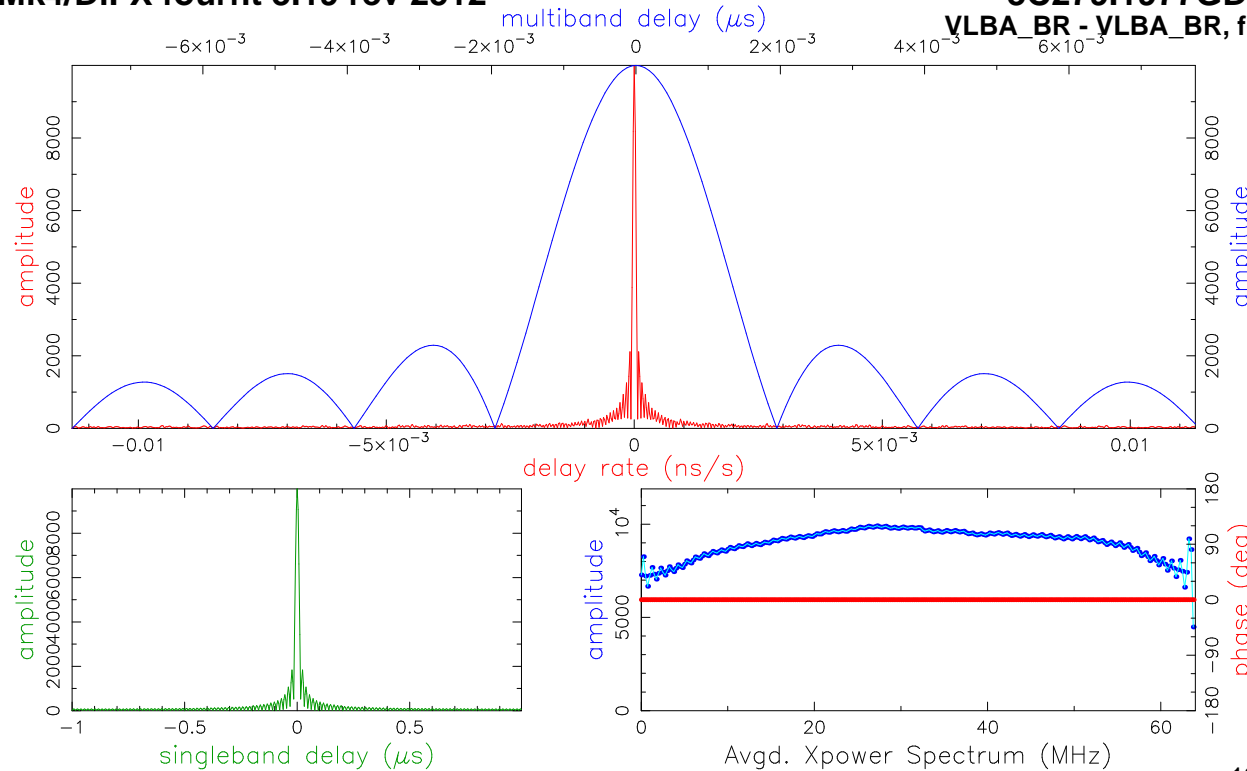


Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bb
VLBA_BR - VLBA_BR, fgroup W, pol LL

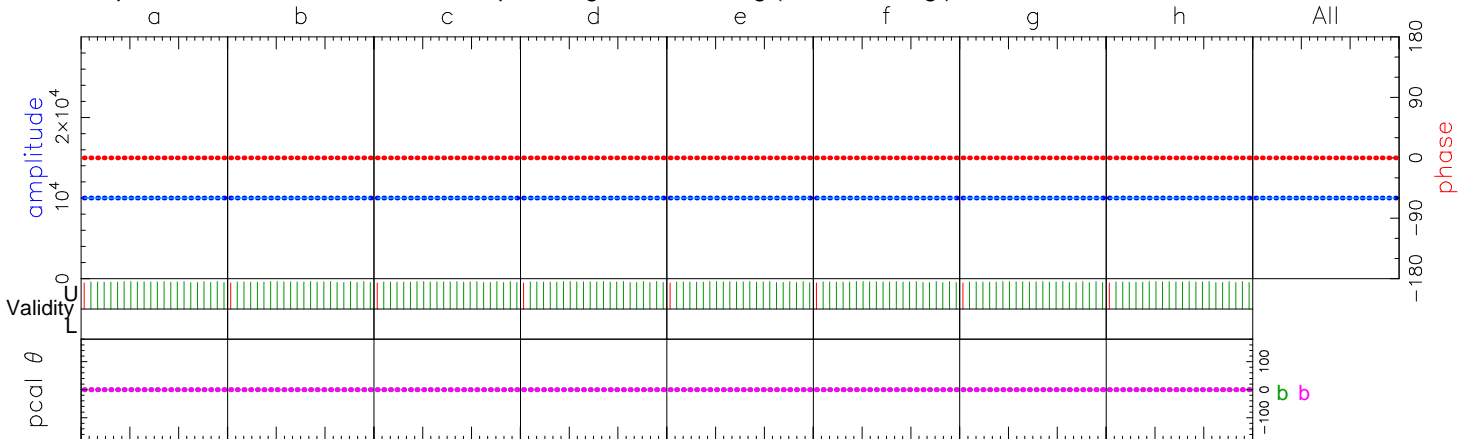


Fringe quality 9

SNR 363939.0
Int time 177.118
Amp 9999.995
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. c201e
Yr:day 16383
Start 2020:119
Stop 2020:119
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160056
2020:014:135814
RA & Dec (J2000) 12h56m11.166577s
--5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

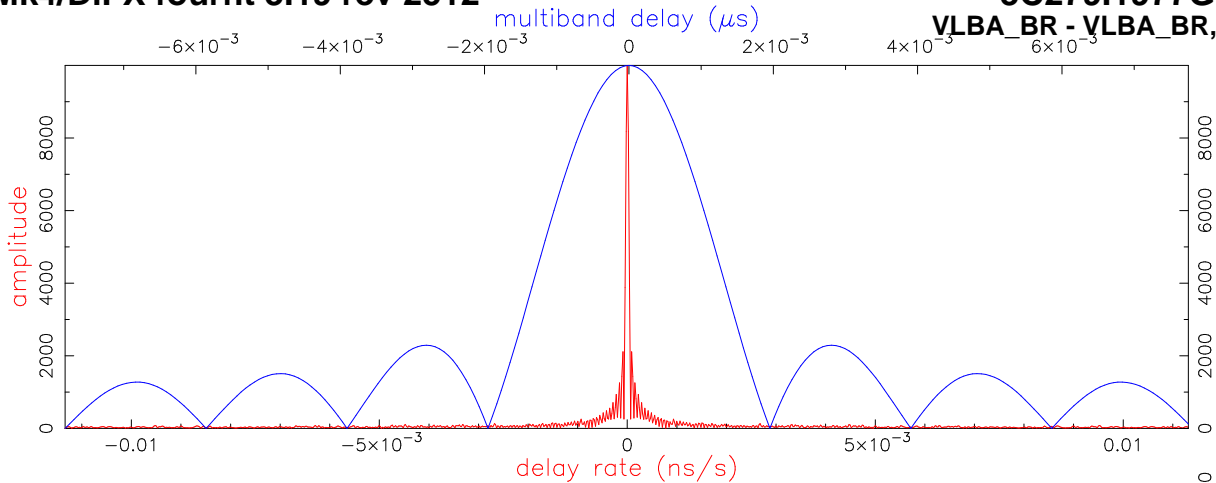
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.4E-08
 Phase delay (usec) -7.05195624293E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -7.05196E-20 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.8E-14
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 9999.995 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.995 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.995 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

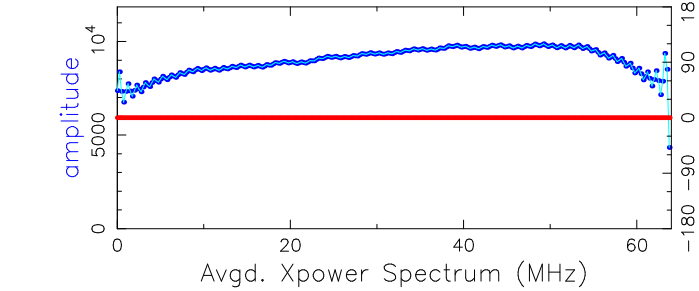
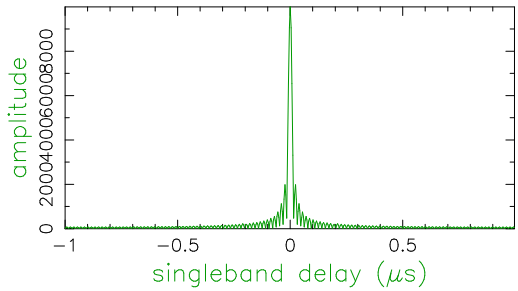
b: az 183.3 el 35.9 pa 2.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bb..1977GD Output file: /Exps/c201e/v1/1234/No0089/bb.W.1.1977GD

Mk4/DiFX fourfit 3.19 rev 2512

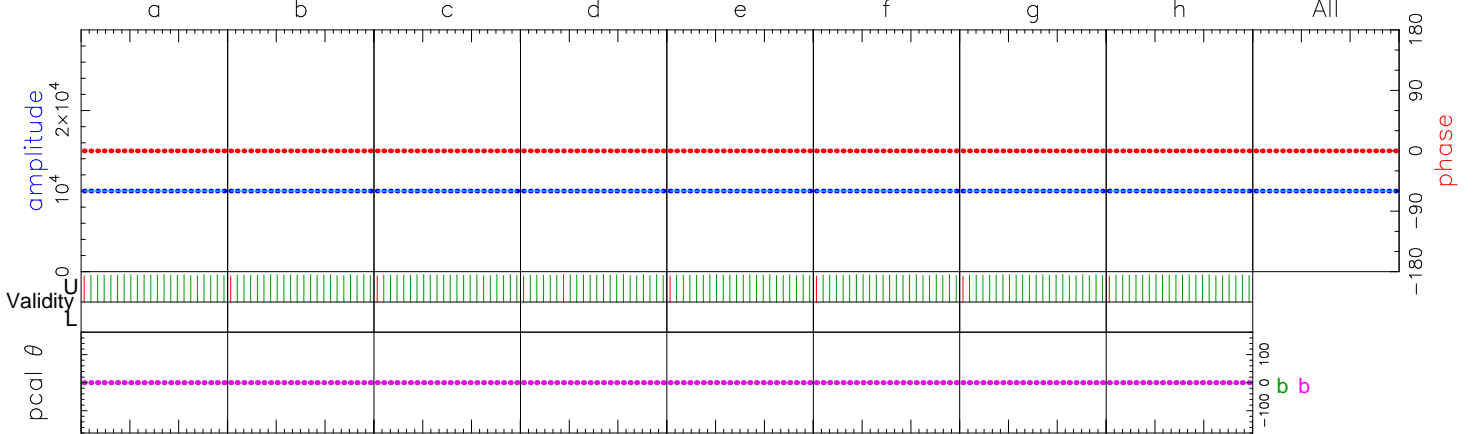
3C279.1977GD, No0089, bb
VLBA_BR - VLBA_BR, fgroup W, pol RR



Fringe quality 9
SNR 363938.8
Int time 177.118
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Yr:day 16383
Start 2020:119
Stop 2020:119
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160101
2020:014:135814
RA & Dec (J2000) 12h56m11.166577s --5°47'21.525129"



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

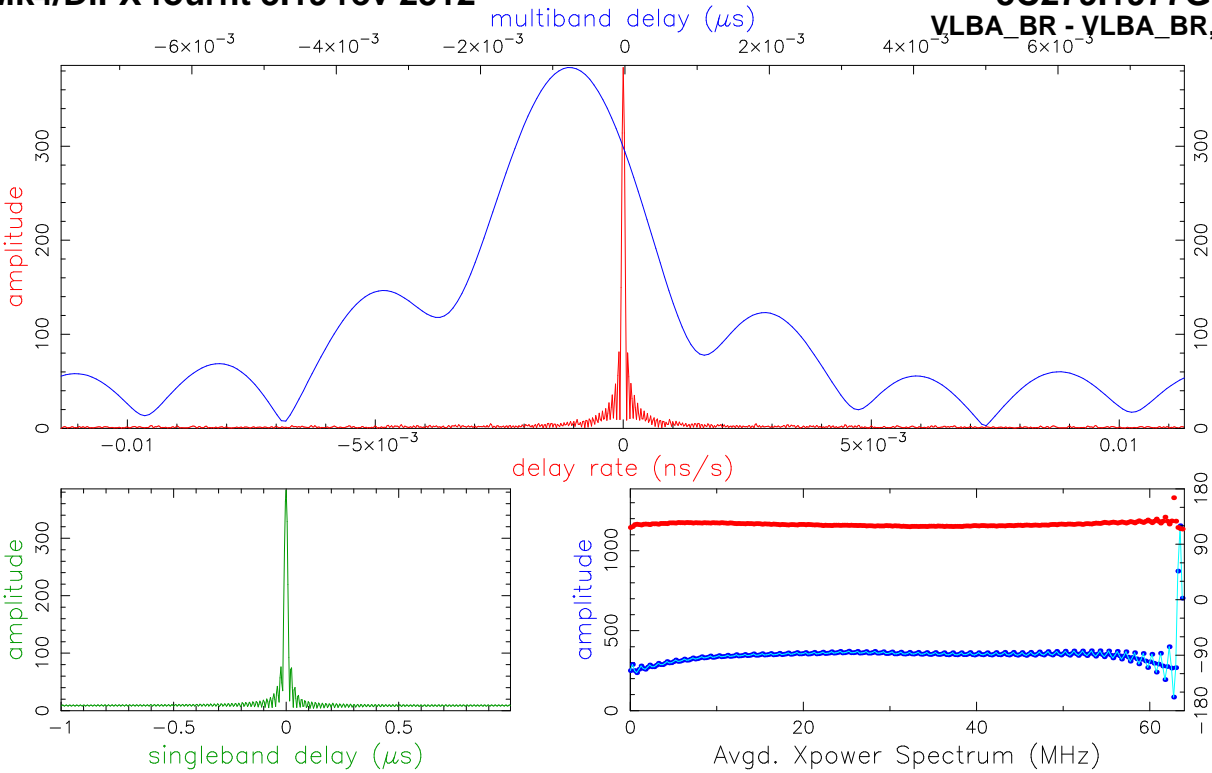


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 3.0E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 2.4E-08
Phase delay (usec)	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20	8.70399369576E-20		+/- 1.0E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 9.8E-14
Total phase (deg)			0.0							+/- 0.0
	RMS	Theor.	Amplitude	9999.999 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (1024X32)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.999	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 183.3 el 35.9 pa 2.2 b: az 183.3 el 35.9 pa 2.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bb..1977GD Output file: /Exps/c201e/v1/1234/No0089/bb.W.32.1977GD

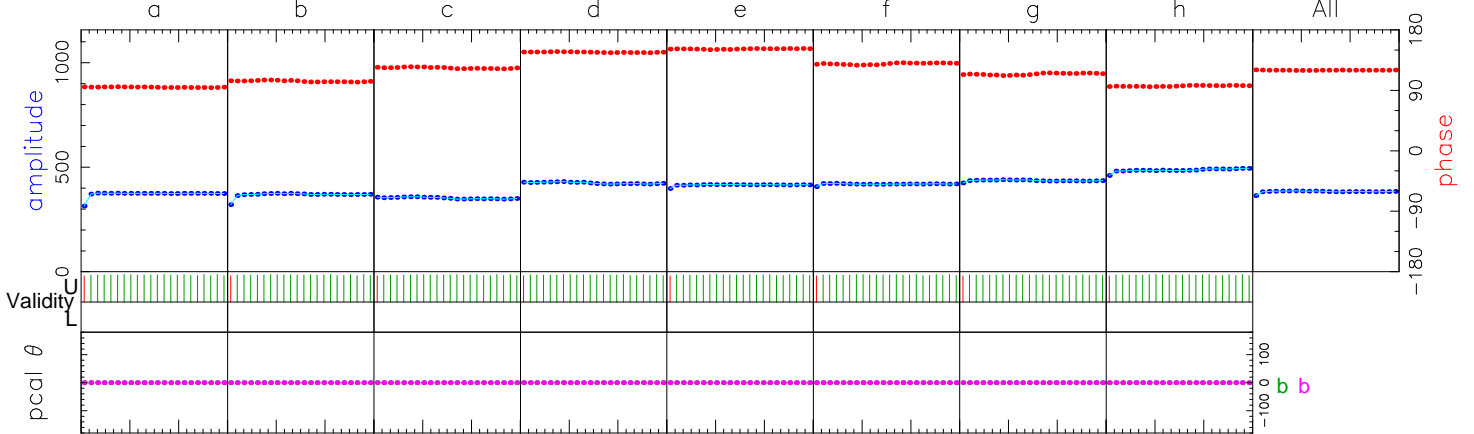
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bb
VLBA_BR - VLBA_BR, fgroup W, pol LR



Fringe quality 7
SNR 14045.0
Int time 177.118
Amp 385.915
Phase 119.9
PFD 0.0e+00
Delays (us)
SBD -0.000948
MBD -0.000784
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160105
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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

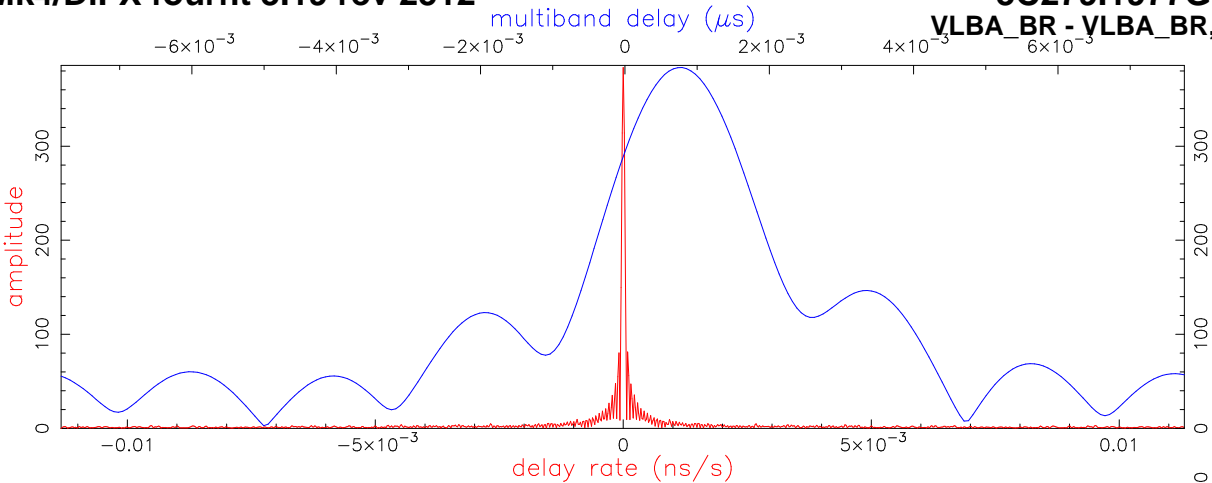


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
94.6	103.6	123.3	146.7	151.5	129.5	114.1	96.4	96.4	Phase	119.9
372.5	368.7	352.7	424.8	415.2	419.5	436.1	486.4	486.4	Ampl.	409.5
256.7	256.8	257.1	257.0	256.6	256.6	256.7	256.5	256.5	Sbd box	256.8
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b 0:0	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	1000	PC amp	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
b W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
Group delay (usec)(sbd)	-7.835000000000E-04		Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	-7.83500E-04	+/-	7.7E-08		
Sband delay (usec)	-9.480000000000E-04		Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	-9.48000E-04	+/-	6.1E-07		
Phase delay (usec)	3.86631600916E-06		Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	3.86632E-06	+/-	2.6E-10		
Delay rate (us/s)	-3.25936505009E-11		Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	-3.25937E-11	+/-	2.5E-12		
Total phase (deg)		119.9	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	119.9	+/-	0.0		

ph/seg (deg) 0.2 0.0 Theor. Amplitude 385.915 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 1.3 0.0 Search (1024X32) 376.468 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 23.5 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 12.2 0.0 Inc. seg. avg. 383.658 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 183.3 el 35.9 pa 2.2 b: az 183.3 el 35.9 pa 2.2 u, v (fr/asec) 0.000 0.000 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bb..1977GD Output file: /Exps/c201e/v1/1234/No0089/bb.W.57.1977GD simultaneous interpolator

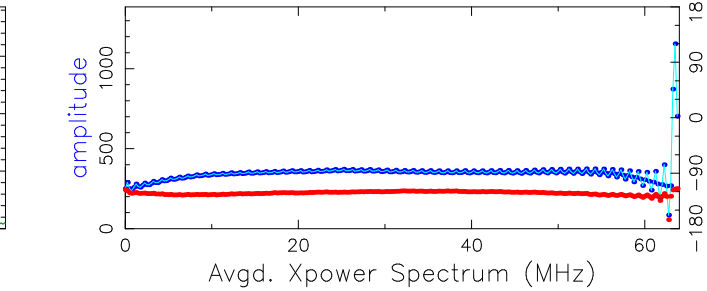
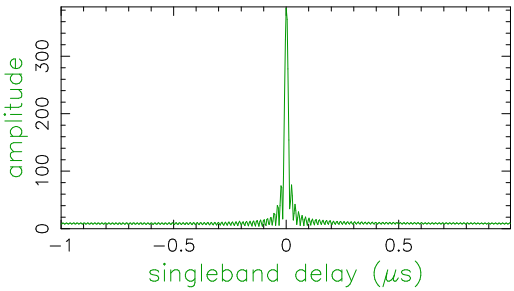
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bb
VLBA_BR - VLBA_BR, fgroup W, pol RL



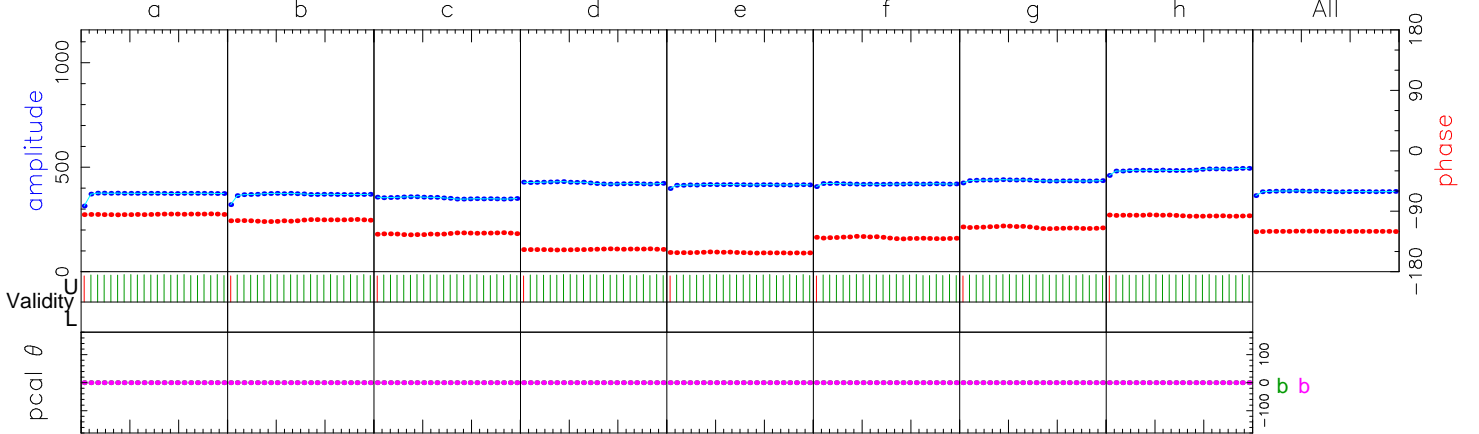
Fringe quality 7

SNR 14045.0
Int time 177.118
Amp 385.916
Phase -119.9
PFD 0.0e+00
Delays (us)
SBD 0.000948
MBD 0.000784
Fringe rate (Hz)
0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160110
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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

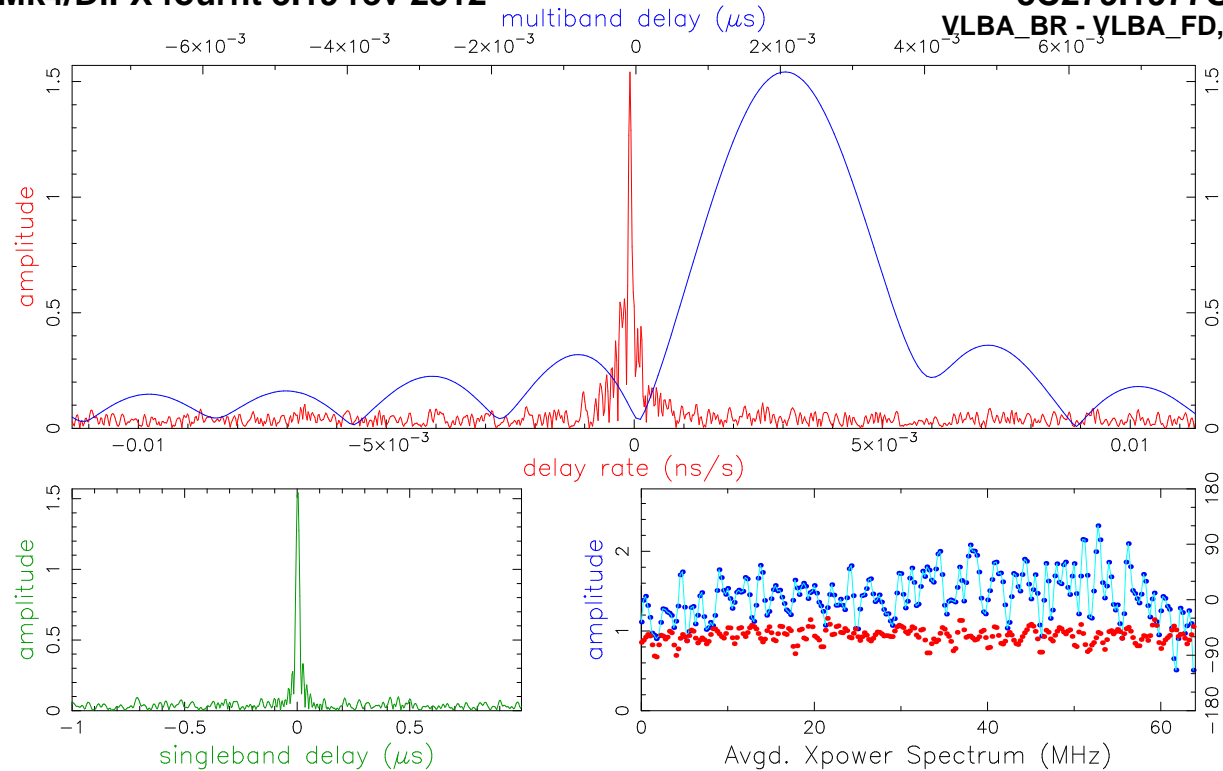


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-94.6	-103.6	-123.3	-146.7	-151.5	-129.5	-114.1	-96.4	Phase	-119.9
	372.5	368.7	352.7	424.8	415.2	419.5	436.1	486.4	Ampl.	409.5
	257.3	257.2	256.9	257.0	257.4	257.4	257.3	257.5	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.83500000000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		7.83500E-04	+/- 7.7E-08
Sband delay (usec)	9.48000000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		9.48000E-04	+/- 6.1E-07
Phase delay (usec)	-3.86631600933E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.86632E-06	+/- 2.6E-10
Delay rate (us/s)	3.25936505009E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.25937E-11	+/- 2.5E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-119.9	+/- 0.0

	RMS	Theor.	Amplitude	385.916 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.2	0.0	Search (1024X32)	376.469	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
ph/frq (deg)	23.5	0.0	Inc. seg. avg.	383.658	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.2	0.0	Inc. frq. avg.	409.488	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 183.3 el 35.9 pa 2.2 b: az 183.3 el 35.9 pa 2.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bb..1977GD Output file: /Exps/c201e/v1/1234/No0089/bb.W.86.1977GD

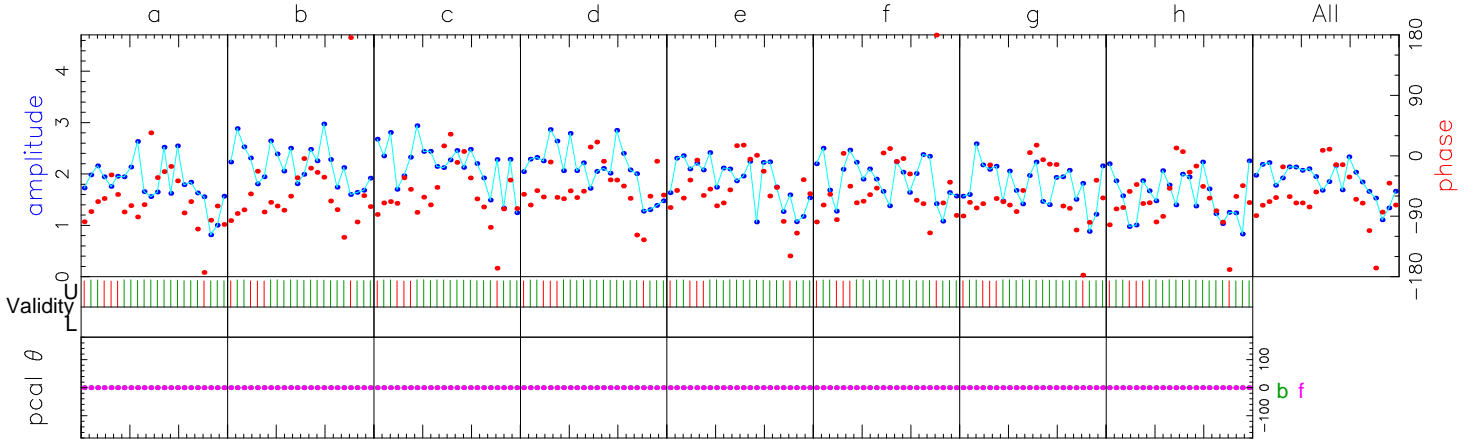


Fringe quality 6

SNR 56.7
Int time 174.180
Amp 1.570
Phase -56.6
PFD 0.0e+00
Delays (us)
SBD 0.002174
MBD 0.002022
Fringe rate (Hz)
-0.007012
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160058
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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

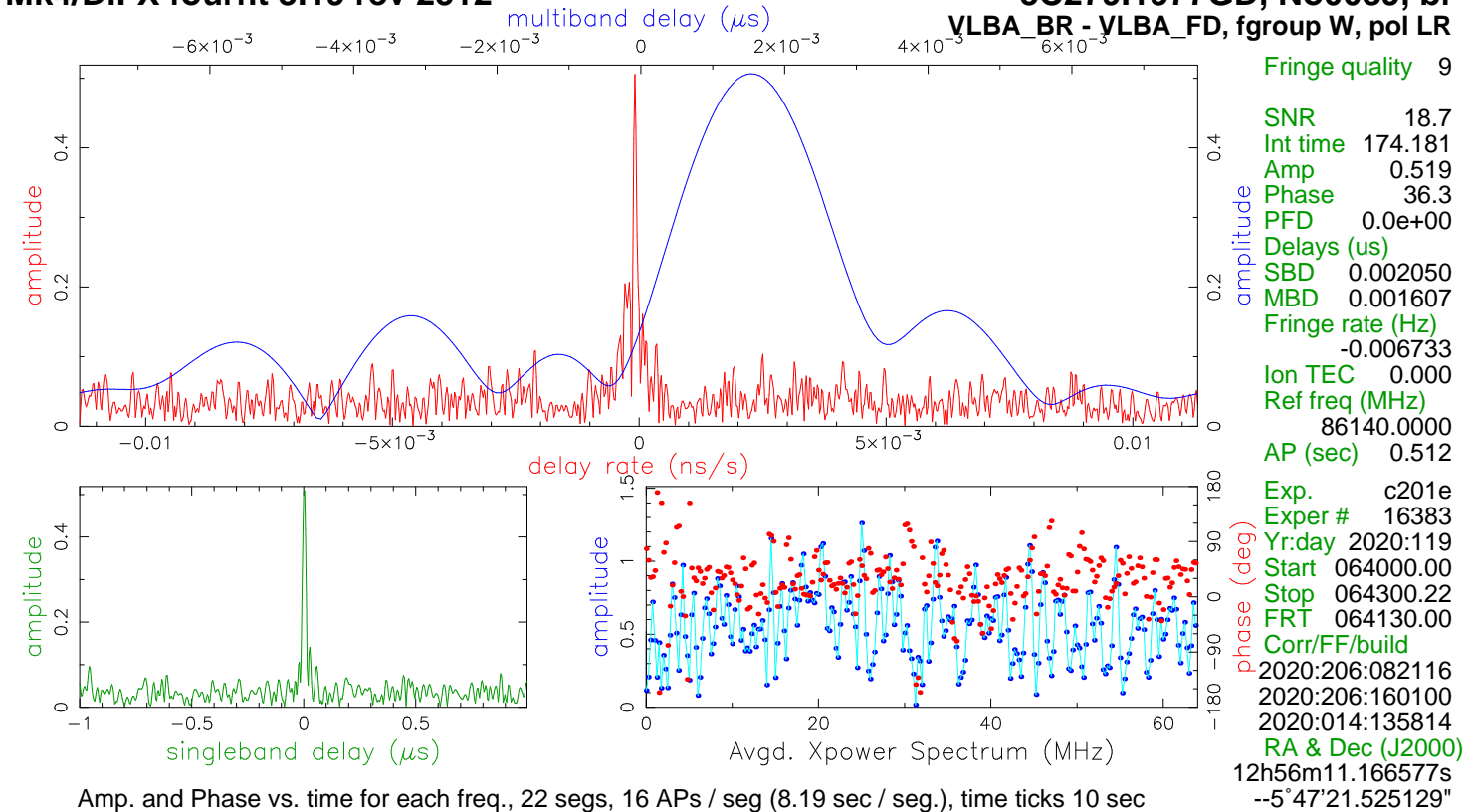


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.6	-65.0	-55.1	-47.5	-46.2	-55.1	-57.0	-62.0	Phase	-56.6
	1.5	1.8	1.7	1.8	1.5	1.5	1.4	1.3	Ampl.	1.6
	257.4	257.8	257.5	257.3	258.0	257.5	257.1	257.8	Sbd box	257.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.64193237888E+03		Apriori delay (usec)		-3.64193440115E+03		Resid mbdelay (usec)		2.02227E-03	+/- 1.9E-05
Sband delay (usec)	-3.64193222740E+03		Apriori clock (usec)		-5.3400383E+00		Resid sbdelay (usec)		2.17375E-03	+/- 1.5E-04
Phase delay (usec)	-3.64193440298E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		-1.82665E-06	+/- 6.5E-08
Delay rate (us/s)	3.73344758695E-01		Apriori rate (us/s)		3.73344840097E-01		Resid rate (us/s)		-8.14019E-08	+/- 6.3E-10
Total phase (deg)			Apriori accel (us/s/s)		1.66125928200E-05		Resid phase (deg)		-56.6	+/- 2.0

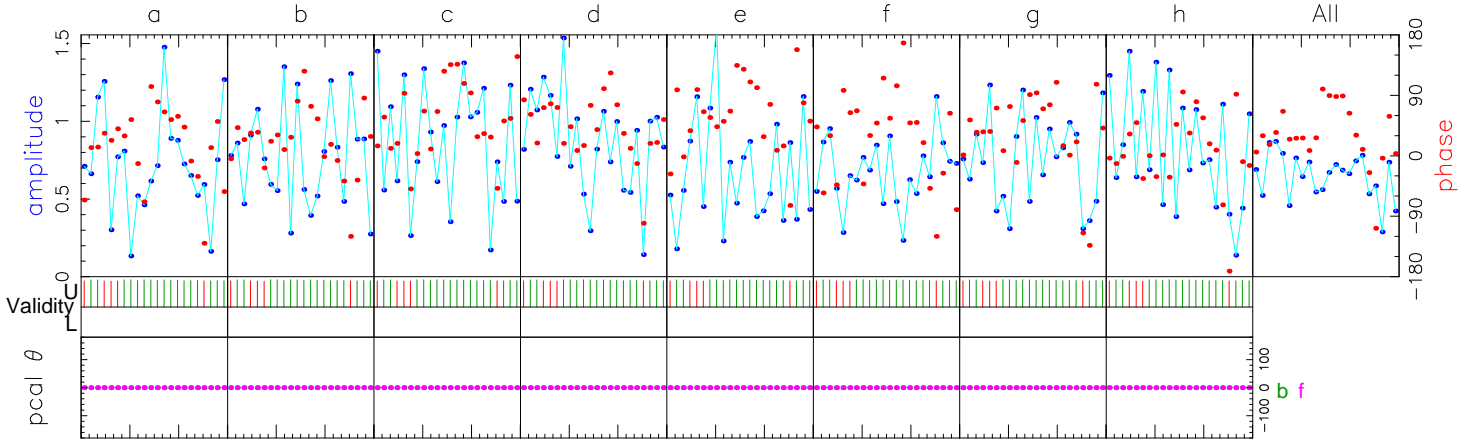
ph/seg (deg) 38.9 4.7 Search (1024X32) 1.500 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 27.5 8.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 8.1 2.9 Inc. seg. avg. 1.878 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 11.5 5.0 Inc. frq. avg. 1.551 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 183.3 el 35.9 pa 2.2 f: az 208.9 el 49.4 pa 25.1 u,v (fr/asec) -2140.073 1936.272 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bf..1977GD Output file: /Exps/c201e/v1/1234/No0089/bf.W.10.1977GD simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bf
VLBA_BR - VLBA_FD, fgroup W, pol LR



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
24.9	22.0	57.1	46.6	60.6	20.7	44.5	6.1	6.1	Phase	36.3
0.5	0.5	0.6	0.7	0.5	0.3	0.6	0.6	0.6	Ampl.	0.5
257.4	257.9	258.0	257.4	257.5	257.8	257.3	257.0	255.7	Sbd box	257.5
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
f W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.64193279399E+03		Apriori delay (usec)	-3.64193440115E+03		Resid mbdelay (usec)	1.60716E-03	+/-	5.8E-05	
Sband delay (usec)	-3.64193235065E+03		Apriori clock (usec)	-5.3400383E+00		Resid sbdelay (usec)	2.05050E-03	+/-	4.6E-04	
Phase delay (usec)	-3.64193439998E+03		Apriori clockrate (us/s)	-1.5100001E-07		Resid phdelay (usec)	1.17046E-06	+/-	2.0E-07	
Delay rate (us/s)	3.73344761938E-01		Apriori rate (us/s)	3.73344840097E-01		Resid rate (us/s)	-7.81596E-08	+/-	1.9E-09	
Total phase (deg)		-77.2	Apriori accel (us/s/s)	1.66125928200E-05		Resid phase (deg)	36.3	+/-	6.1	

ph/seg (deg) RMS Theor. Amplitude 0.519 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

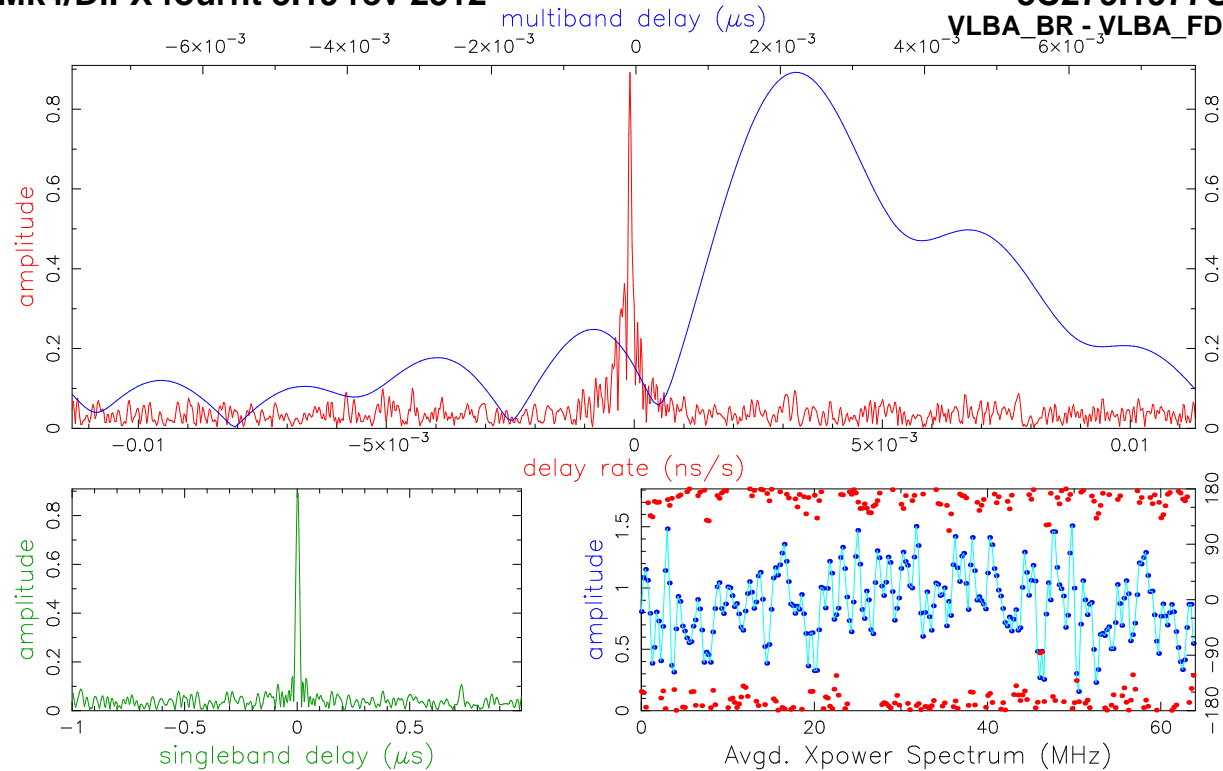
amp/seg (%) 37.3 25.0 Search (1024X32) 0.484 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 21.1 8.7 Inc. seg. avg. 0.630 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 20.2 15.1 Inc. frq. avg. 0.526 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 183.3 el 35.9 pa 2.2 f: az 208.9 el 49.4 pa 25.1 u,v (fr/asec) -2140.073 1936.272 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bf..1977GD Output file: /Exps/c201e/v1/1234/No0089/bf.W.20.1977GD

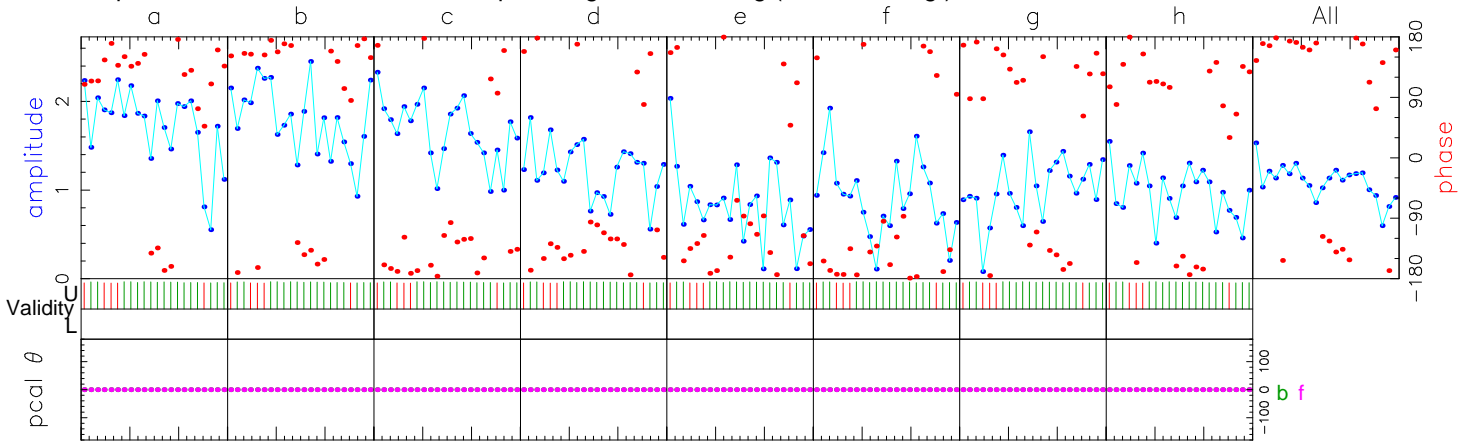


Fringe quality 5

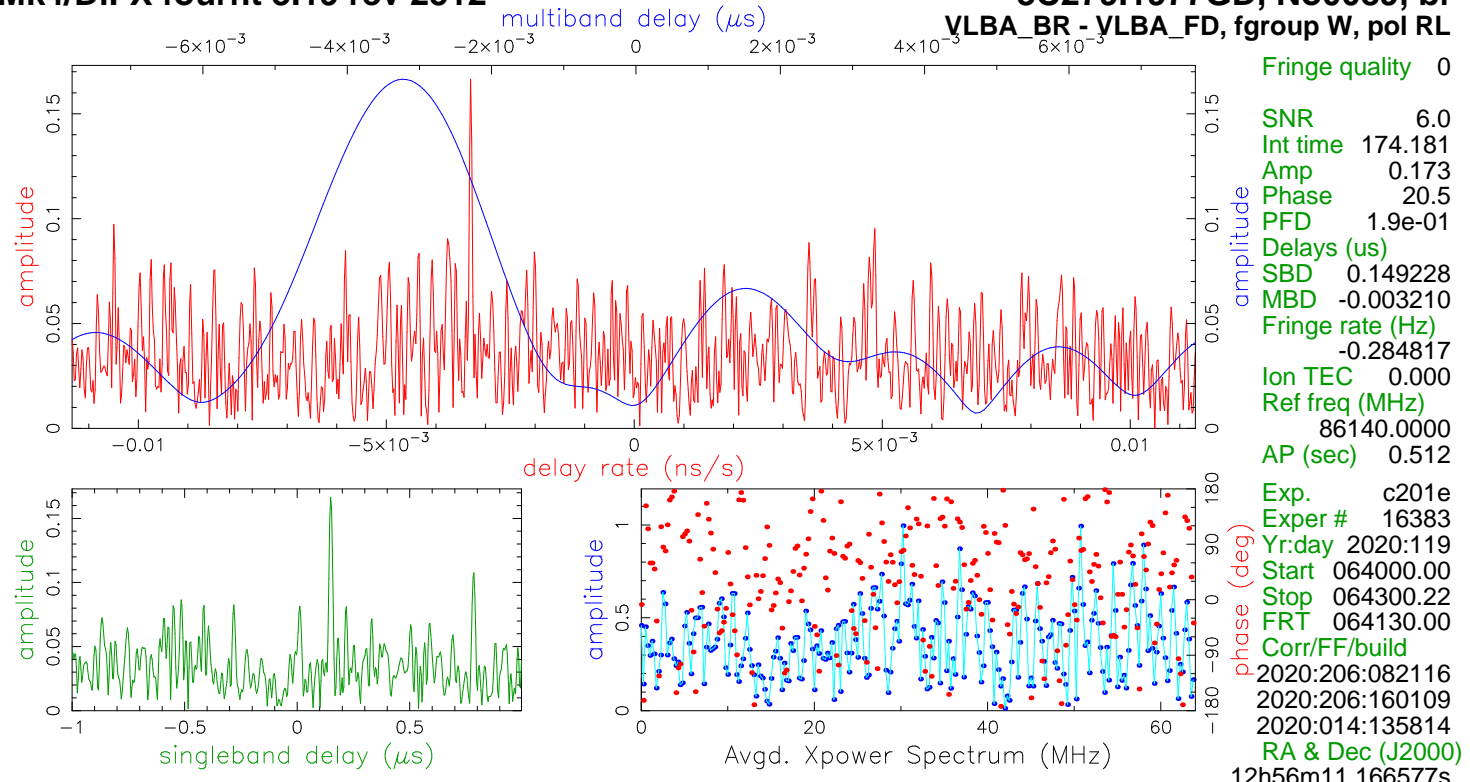
SNR 32.8
Int time 174.181
Amp 0.910
Phase 178.6
PFD 0.0e+00
Delays (us)
SBD 0.002100
MBD 0.002182
Fringe rate (Hz)
-0.006973
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160056
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

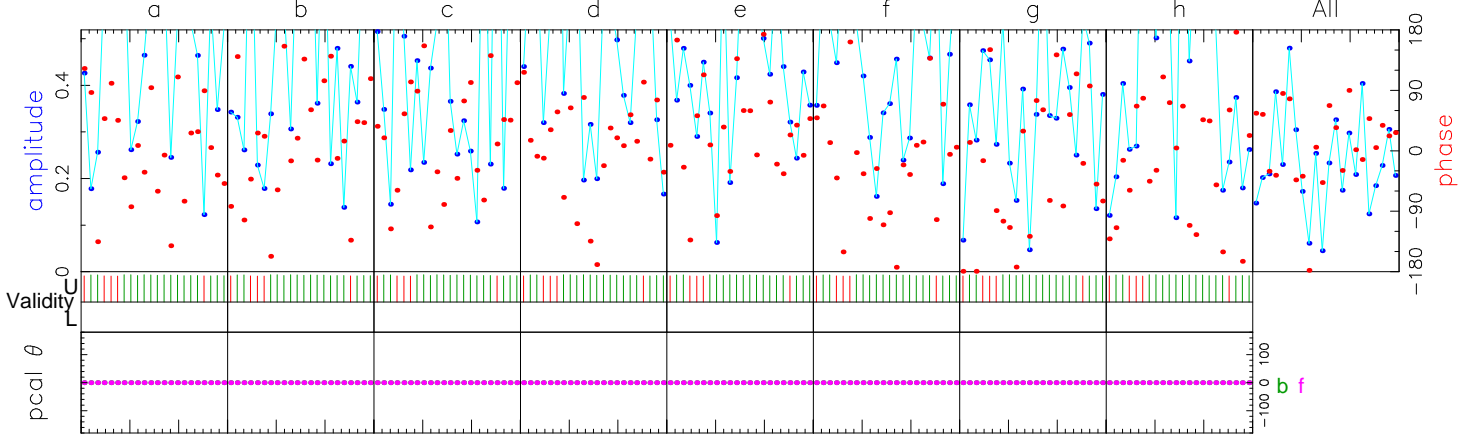
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.64193221910E+03				-3.64193440115E+03				2.18205E-03	+/- 3.3E-05
Sband delay (usec)	-3.64193230165E+03				-5.3400383E+00				2.09950E-03	+/- 2.6E-04
Phase delay (usec)	-3.64193439539E+03				-1.5100001E-07				5.75869E-06	+/- 1.1E-07
Delay rate (us/s)	3.73344759153E-01				3.73344840097E-01				-8.09442E-08	+/- 1.1E-09
Total phase (deg)			65.1		1.66125928200E-05				178.6	+/- 3.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
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)	RMS 38.3	Theor. 8.2	Amplitude 0.910 +/- 0.028	Search (1024X32) 0.858	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	29.0	14.3	Interp. 0.000	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	29.2	4.9	Inc. seg. avg. 1.082	1.082	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	39.6	8.6	Inc. frq. avg. 0.978	0.978	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00	
b: az 183.3 el 35.9 pa 2.2			f: az 208.9 el 49.4 pa 25.1		u,v (fr/asec) -2140.073 1936.272					simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c201e/v1/1234/No0089/bf..1977GD		Output file: /Exps/c201e/v1/1234/No0089/bf.W.2.1977GD					



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

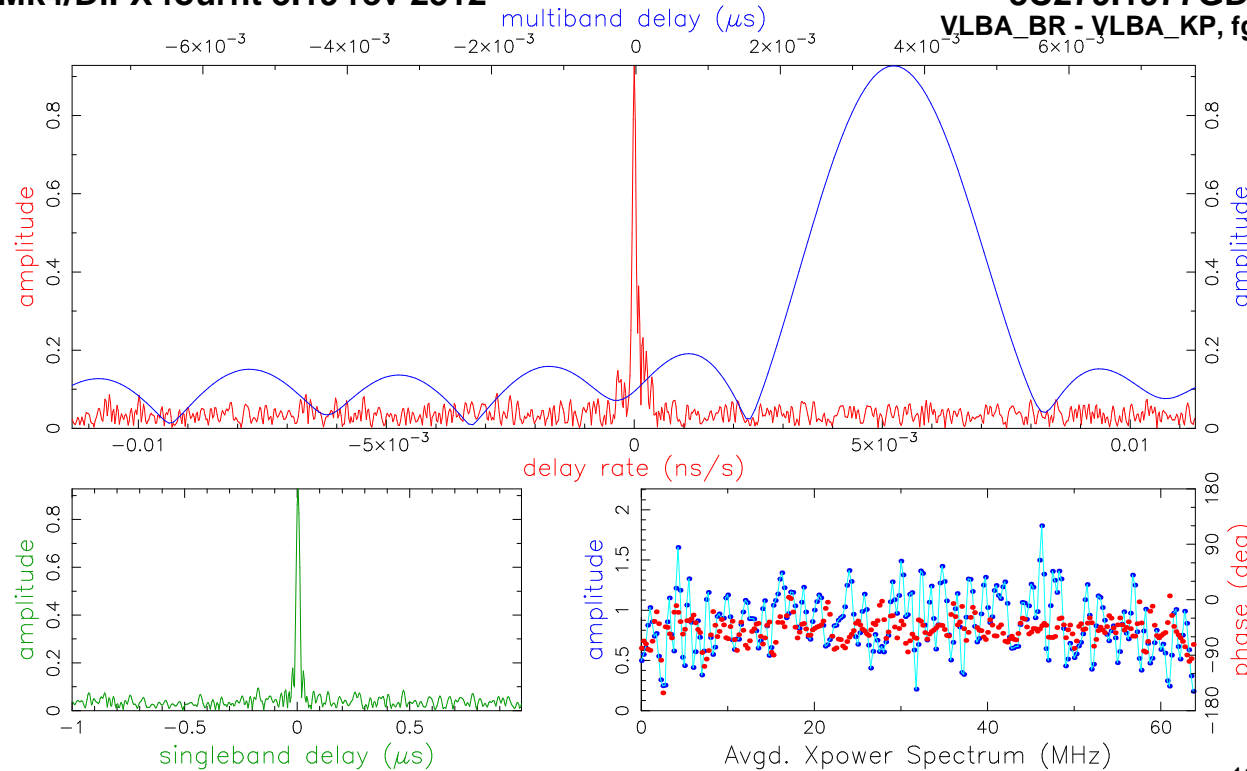


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
13.3	48.3	5.7	25.8	33.3	-20.0	6.7	31.5	0.1	Phase	20.5
0.2	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.1	Ampl.	0.2
66.3	126.4	296.9	294.1	400.3	205.4	29.2	18.7	0.0	Sbd box	295.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.64178136105E+03		Apriori delay (usec)	-3.64193440115E+03	Resid mbdelay (usec)	-3.20990E-03	+/-	1.8E-04		
Sband delay (usec)	-3.64178517265E+03		Apriori clock (usec)	-5.3400383E+00	Resid sbdelay (usec)	1.49228E-01	+/-	1.4E-03		
Phase delay (usec)	-3.64193440049E+03		Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	6.60331E-07	+/-	6.1E-07		
Delay rate (us/s)	3.73341533660E-01		Apriori rate (us/s)	3.73344840097E-01	Resid rate (us/s)	-3.30644E-06	+/-	5.9E-09		
Total phase (deg)		-93.0	Apriori accel (us/s/s)	1.66125928200E-05	Resid phase (deg)	20.5	+/-	19.0		

ph/seg (deg) 55.0 44.6 Search (1024X32) 0.162 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.9 77.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.1 26.9 Inc. seg. avg. 0.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.4 46.9 Inc. frq. avg. 0.163 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 183.3 el 35.9 pa 2.2 f: az 208.9 el 49.4 pa 25.1 u,v (fr/asec) -2140.073 1936.272 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bf..1977GD Output file: /Exps/c201e/v1/1234/No0089/bf.W.82.1977GD

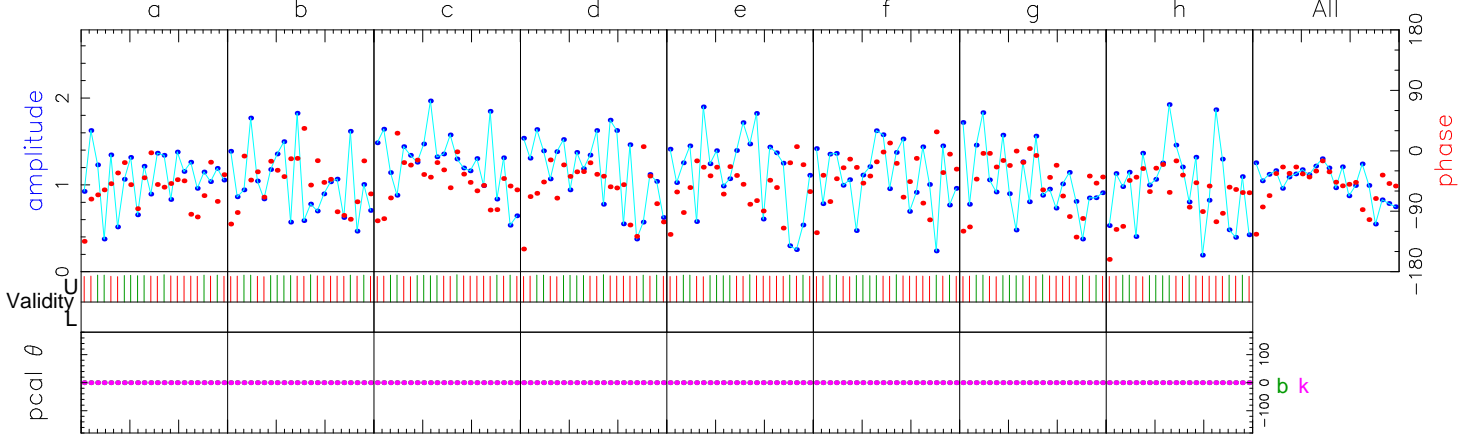
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bk
VLBA_BR - VLBA_KP, fgroup W, pol RR



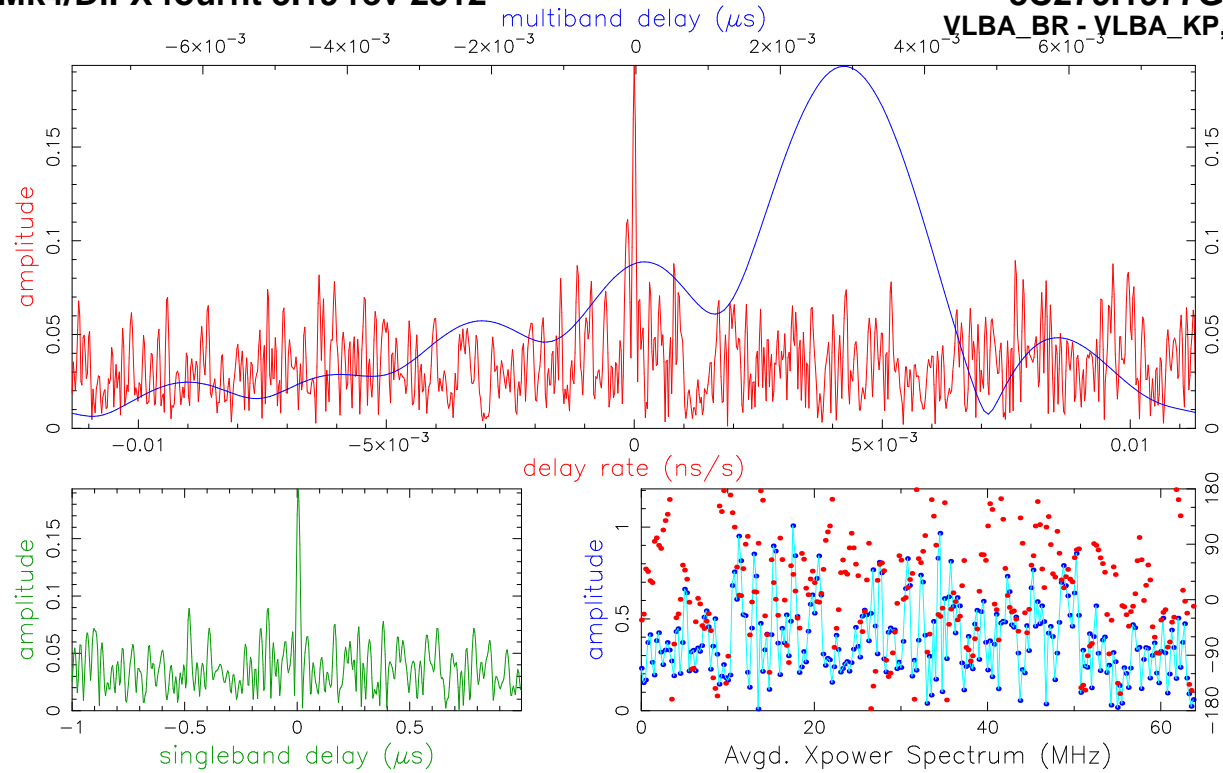
Fringe quality 8
SNR 33.3
Int time 171.614
Amp 0.928
Phase -49.8
PFD 0.0e+00
Delays (us)
SBD 0.003473
MBD 0.003561
Fringe rate (Hz) -0.000165
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160058
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-55.7	-46.7	-46.2	-53.0	-56.4	-38.9	-40.0	-60.8	Phase	-49.8
	1.0	0.9	1.1	1.0	1.0	0.9	0.8	0.8	Ampl.	0.9
	257.6	258.0	258.0	257.7	258.4	257.4	258.0	257.8	Sbd box	257.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.97798251429E+03		Apriori delay (usec)		-3.97798607501E+03		Resid mbdelay (usec)		3.56072E-03	+/- 3.3E-05
Sband delay (usec)	-3.97798260226E+03		Apriori clock (usec)		-1.0764518E+00		Resid sbdelay (usec)		3.47275E-03	+/- 2.6E-04
Phase delay (usec)	-3.97798607662E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-1.60688E-06	+/- 1.1E-07
Delay rate (us/s)	1.98078159780E-01		Apriori rate (us/s)		1.98078161695E-01		Resid rate (us/s)		-1.91452E-09	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.86506822468E-05		Resid phase (deg)		-49.8	+/- 3.4

ph/seg (deg) 26.7 8.1 Amplitude 0.928 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 23.7 14.1 Search (1024X32) 0.918 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 8.6 4.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.8 8.5 Inc. seg. avg. 1.033 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 183.3 el 35.9 pa 2.2 k: az 197.1 el 50.8 pa 15.0 u,v (fr/asec) -1130.008 1746.211 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bk..1977GD Output file: /Exps/c201e/v1/1234/No0089/bk.W.12.1977GD simultaneous interpolator

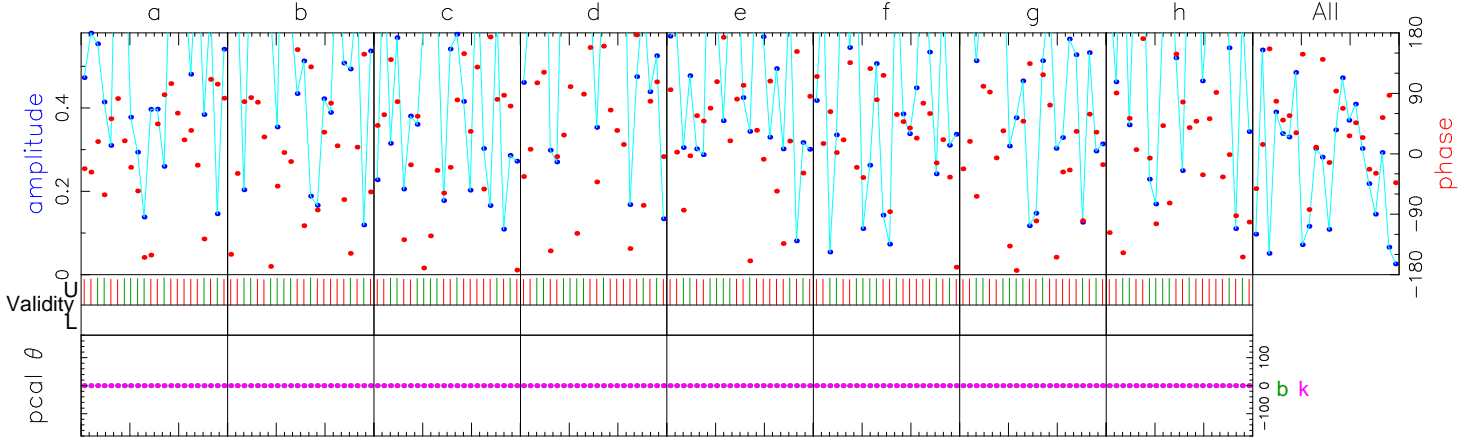


Fringe quality 0

SNR 6.9
Int time 171.614
Amp 0.194
Phase 42.7
PFD 6.2e-04
Delays (us)
SBD 0.004583
MBD 0.002899
Fringe rate (Hz)
-0.000312
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160100
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

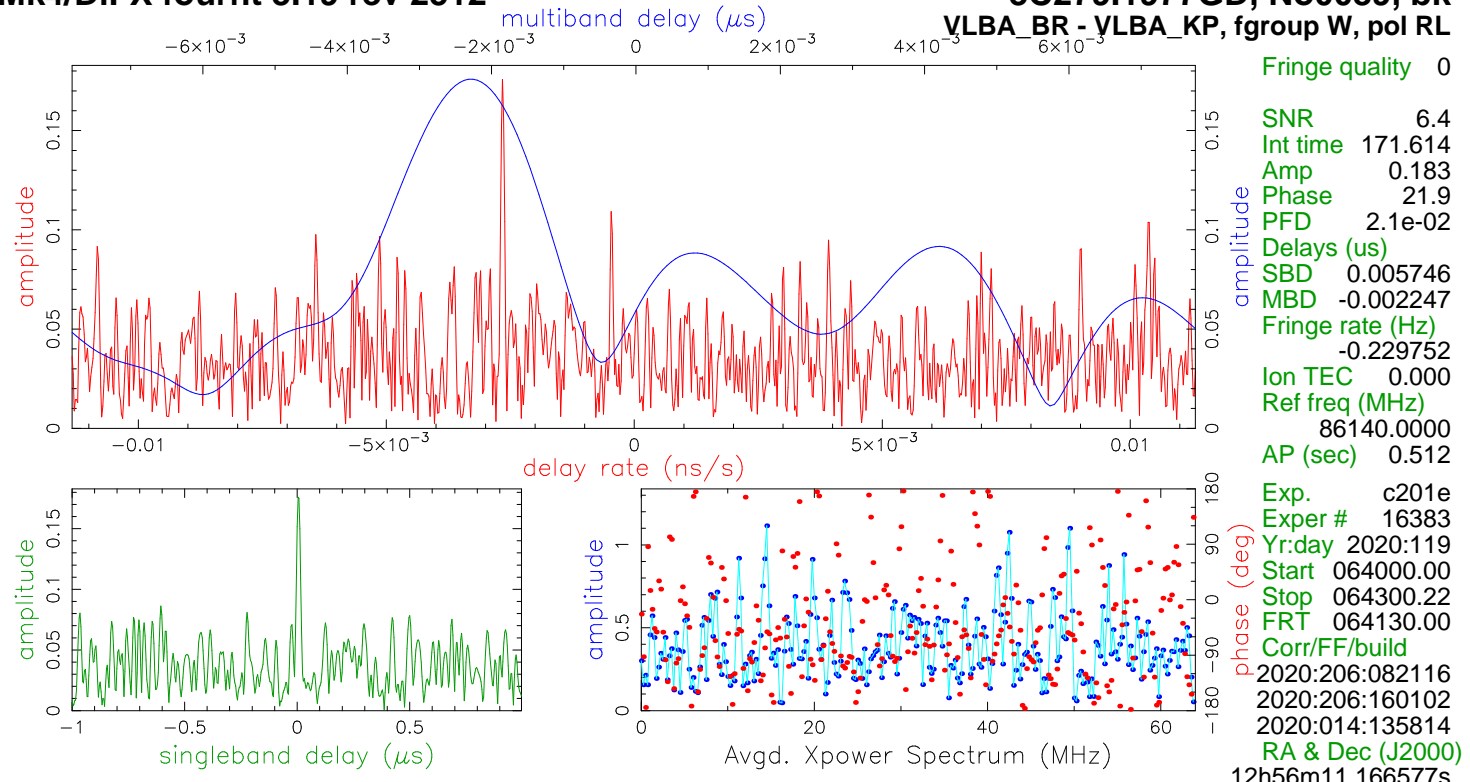
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



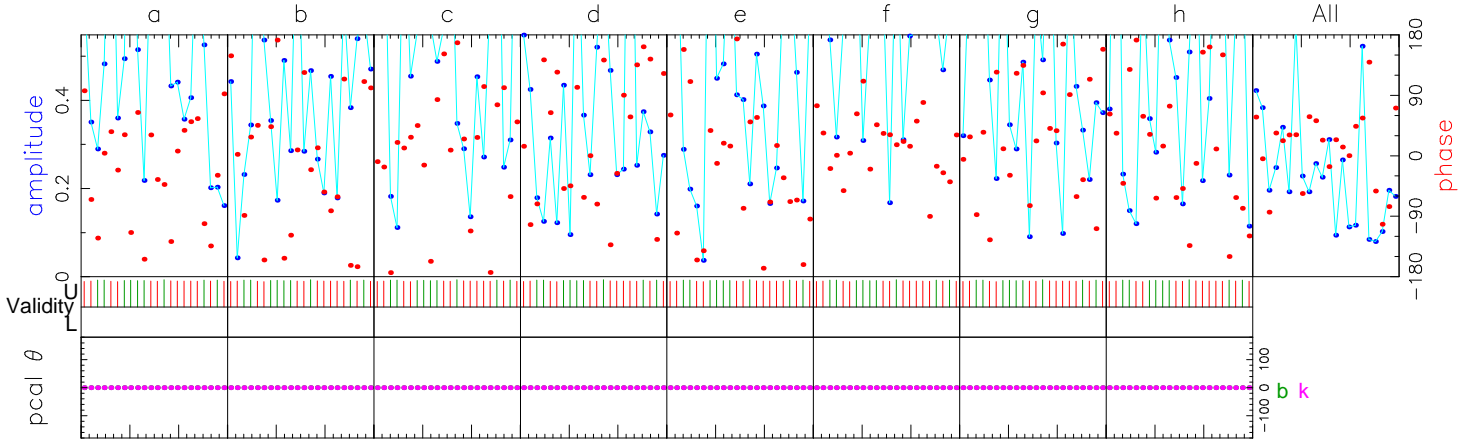
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.97798317601E+03								2.89900E-03	+/- 1.6E-04
Sband delay (usec)	-3.97798149226E+03								4.58275E-03	+/- 1.2E-03
Phase delay (usec)	-3.97798607363E+03								1.37601E-06	+/- 5.3E-07
Delay rate (us/s)	1.98078158071E-01								-3.62356E-09	+/- 5.1E-09
Total phase (deg)			-137.8						42.7	+/- 16.5
	RMS	Theor.	Amplitude	0.194 +/- 0.028						
ph/seg (deg)	63.3	38.8	Search (1024X32)	0.192						
amp/seg (%)	86.0	67.7	Interp.	0.000						
ph/frq (deg)	28.1	23.4	Inc. seg. avg.	0.213						
amp/frq (%)	32.4	40.8	Inc. frq. avg.	0.191						

b: az 183.3 el 35.9 pa 2.2 k: az 197.1 el 50.8 pa 15.0 u,v (fr/asec) -1130.008 1746.211 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bk..1977GD Output file: /Exps/c201e/v1/1234/No0089/bk.W.24.1977GD



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-1.3	88.7	36.8	85.5	-17.8	21.1	32.4	8.0	Phase	21.9
	0.2	0.1	0.3	0.1	0.1	0.5	0.2	0.2	Ampl.	0.2
	30.1	481.5	198.7	347.3	366.0	258.3	331.0	255.8	Sbd box	258.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.97797269750E+03		Apriori delay (usec)		-3.97798607501E+03		Resid mbdelay (usec)		-2.24749E-03	+/- 1.7E-04
Sband delay (usec)	-3.97798032876E+03		Apriori clock (usec)		-1.0764518E+08		Resid sbdelay (usec)		5.74625E-03	+/- 1.3E-03
Phase delay (usec)	-3.97798607431E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		7.04909E-07	+/- 5.8E-07
Delay rate (us/s)	1.98075494507E-01		Apriori rate (us/s)		1.98078161695E-01		Resid rate (us/s)		-2.66719E-06	+/- 5.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.86506822468E-05		Resid phase (deg)		21.9	+/- 17.9

ph/seg (deg) 57.3 42.0 Search (1024X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

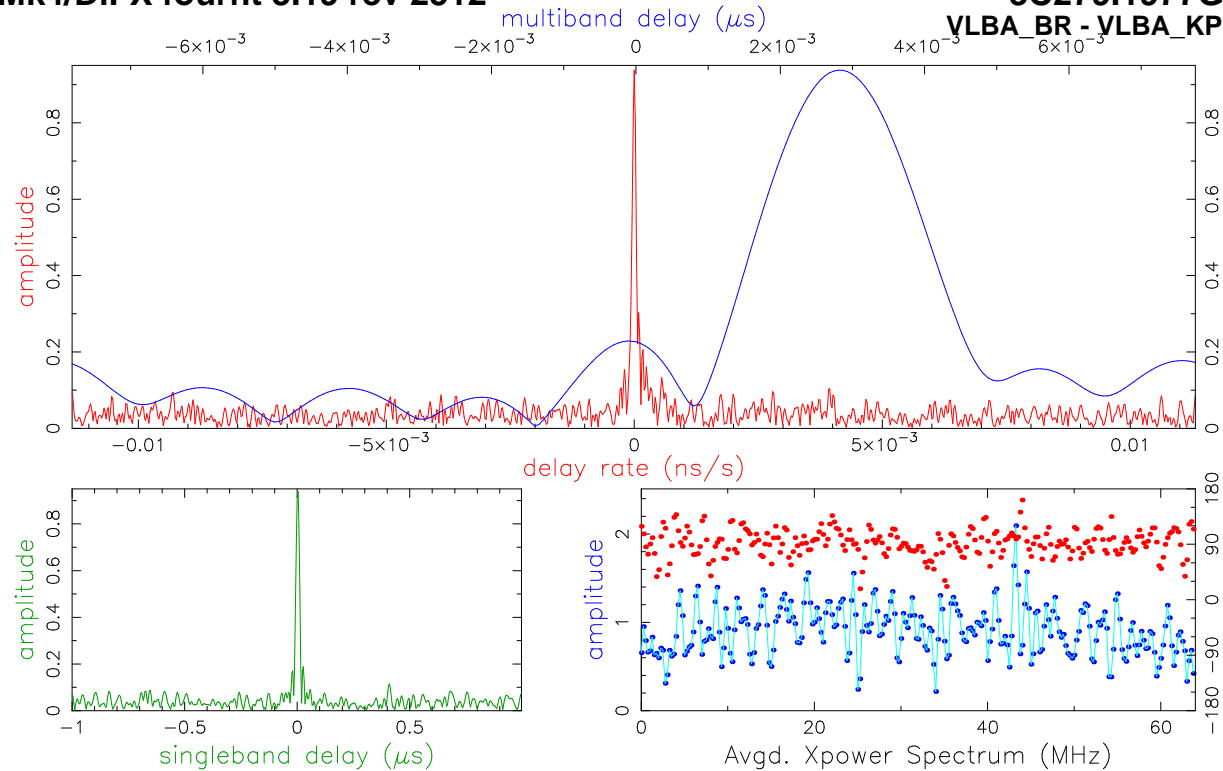
amp/seg (%) 82.8 73.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 43.1 25.3 Inc. seg. avg. 0.195 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 64.5 44.2 Inc. frq. avg. 0.181 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 183.3 el 35.9 pa 2.2 k: az 197.1 el 50.8 pa 15.0 u,v (fr/asec) -1130.008 1746.211 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bk..1977GD Output file: /Exps/c201e/v1/1234/No0089/bk.W.38.1977GD

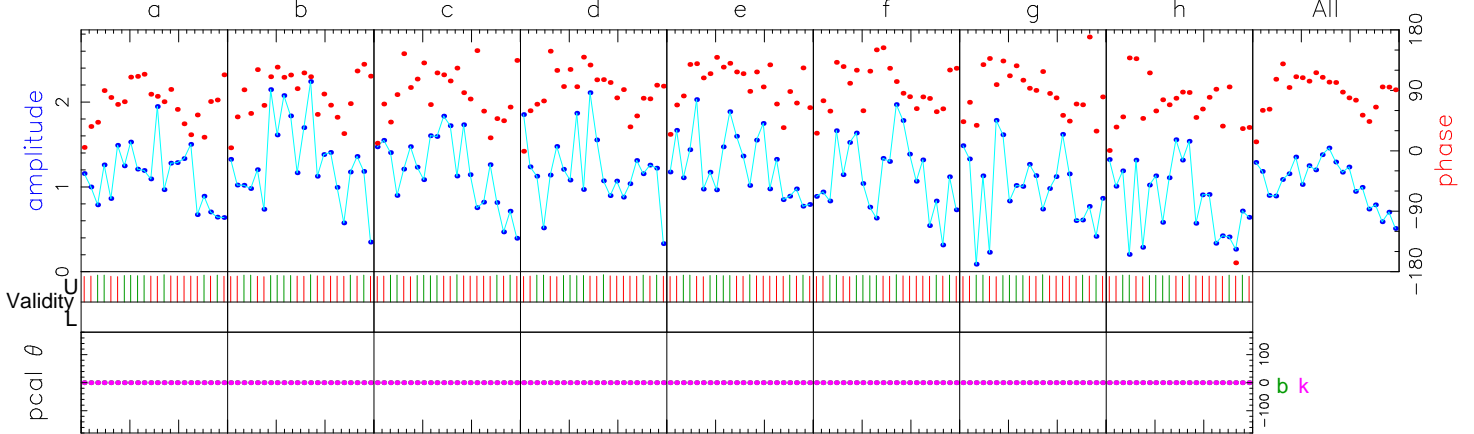


Fringe quality 7

SNR 34.0
Int time 171.614
Amp 0.950
Phase 88.8
PFD 0.0e+00
Delays (us)
SBD 0.002412
MBD 0.002786
Fringe rate (Hz)
-0.000221
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160057
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

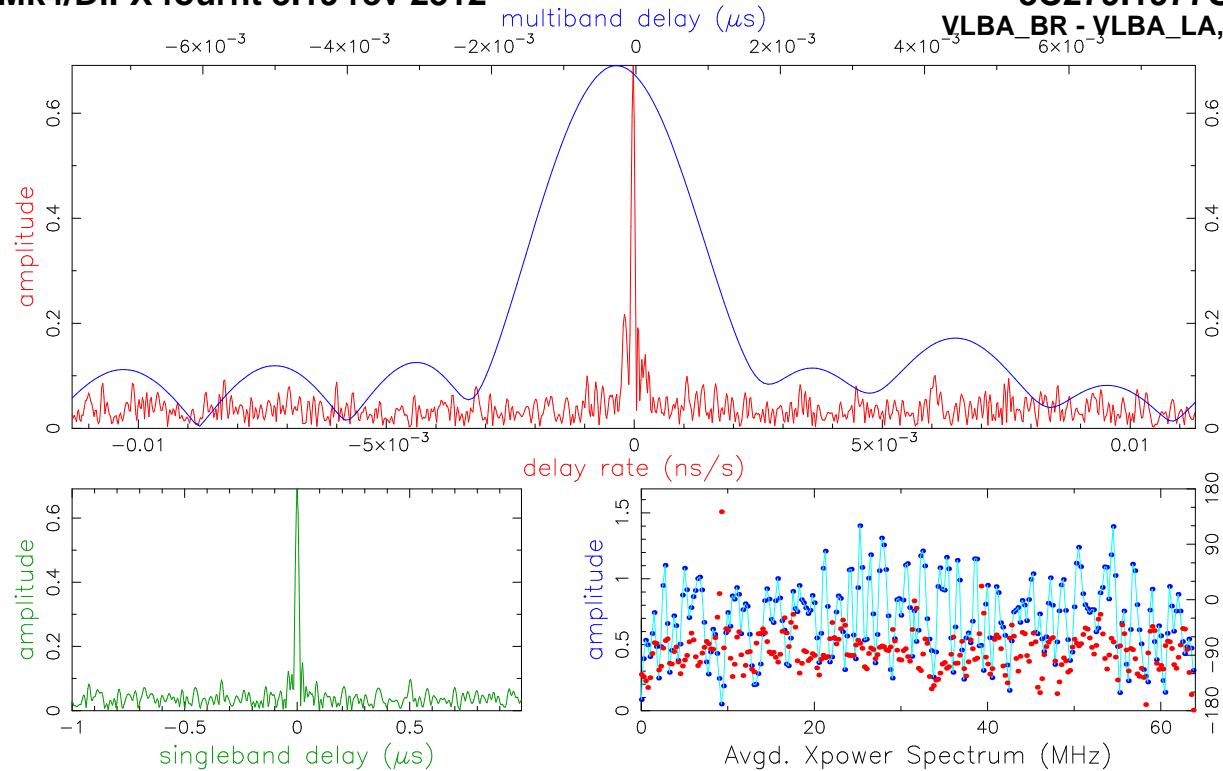
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



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

Group delay (usec)(sbd)	-3.97798328926E+03	Apriori delay (usec)	-3.97798607501E+03	Resid mbdelay (usec)	2.78575E-03	+/-	3.2E-05
Sband delay (usec)	-3.97798366326E+03	Apriori clock (usec)	-1.0764518E+00	Resid sbdelay (usec)	2.41175E-03	+/-	2.5E-04
Phase delay (usec)	-3.97798607215E+03	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	2.86218E-06	+/-	1.1E-07
Delay rate (us/s)	1.98078159131E-01	Apriori rate (us/s)	1.98078161695E-01	Resid rate (us/s)	-2.56356E-09	+/-	1.0E-09
Total phase (deg)		Apriori accel (us/s/s)	1.86506822468E-05	Resid phase (deg)	88.8	+/-	3.4

ph/seg (deg)	26.9	RMS	7.9	Theor.	0.950 +/- 0.028	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	29.2	Search (1024X32)	0.933	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	13.0	Inc. seg. avg.	1.042	Inc. frq. avg.	0.951	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	13.2	Inc. frq. avg.	0.951	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
b: az 183.3 el 35.9 pa 2.2		k: az 197.1 el 50.8 pa 15.0		u, v (fr/asec)	-1130.008 1746.211	ion window (TEC)	0.00	0.00			simultaneous interpolator

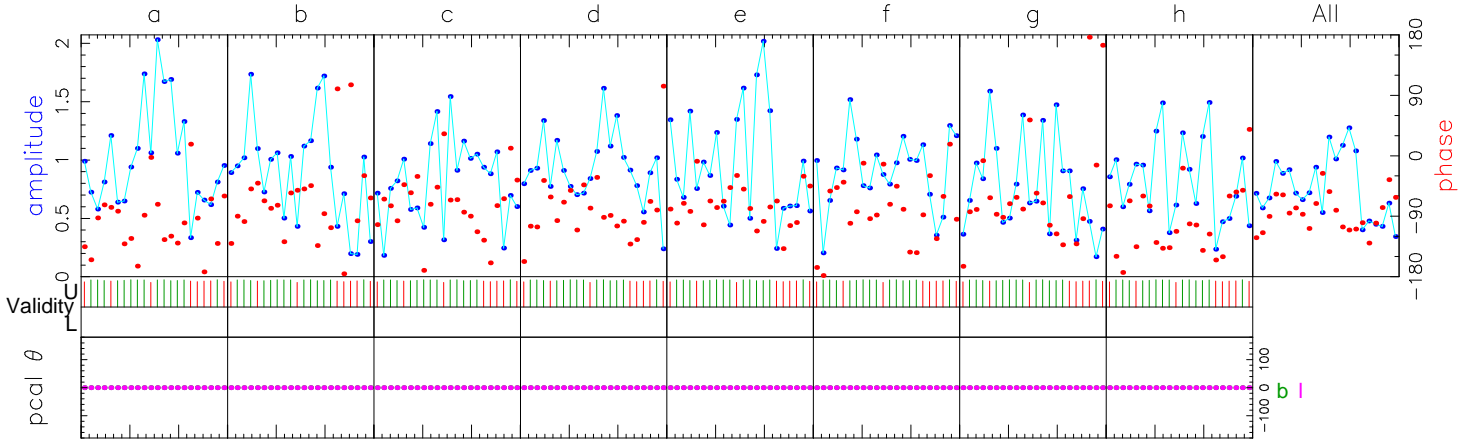


Fringe quality 7

SNR 24.9
Int time 173.029
Amp 0.691
Phase -85.0
PFD 0.0e+00
Delays (us)
SBD -0.000351
MBD -0.000280
Fringe rate (Hz)
-0.001172
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160100
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.70070501068E+03				-2.70070473116E+03				-2.79518E-04	+/- 4.4E-05
Sband delay (usec)	-2.70070508216E+03				2.3212330E+00				-3.51000E-04	+/- 3.5E-04
Phase delay (usec)	-2.70070473390E+03				1.0899999E-07				-2.74062E-06	+/- 1.5E-07
Delay rate (us/s)	3.01033170348E-01				3.01033183948E-01				-1.36001E-08	+/- 1.4E-09
Total phase (deg)			-280.2		1.25181644429E-05				-85.0	+/- 4.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-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) 26.9 10.8
amp/seg (%) 40.2 18.9
ph/frq (deg) 13.0 6.5
amp/frq (%) 13.8 11.4

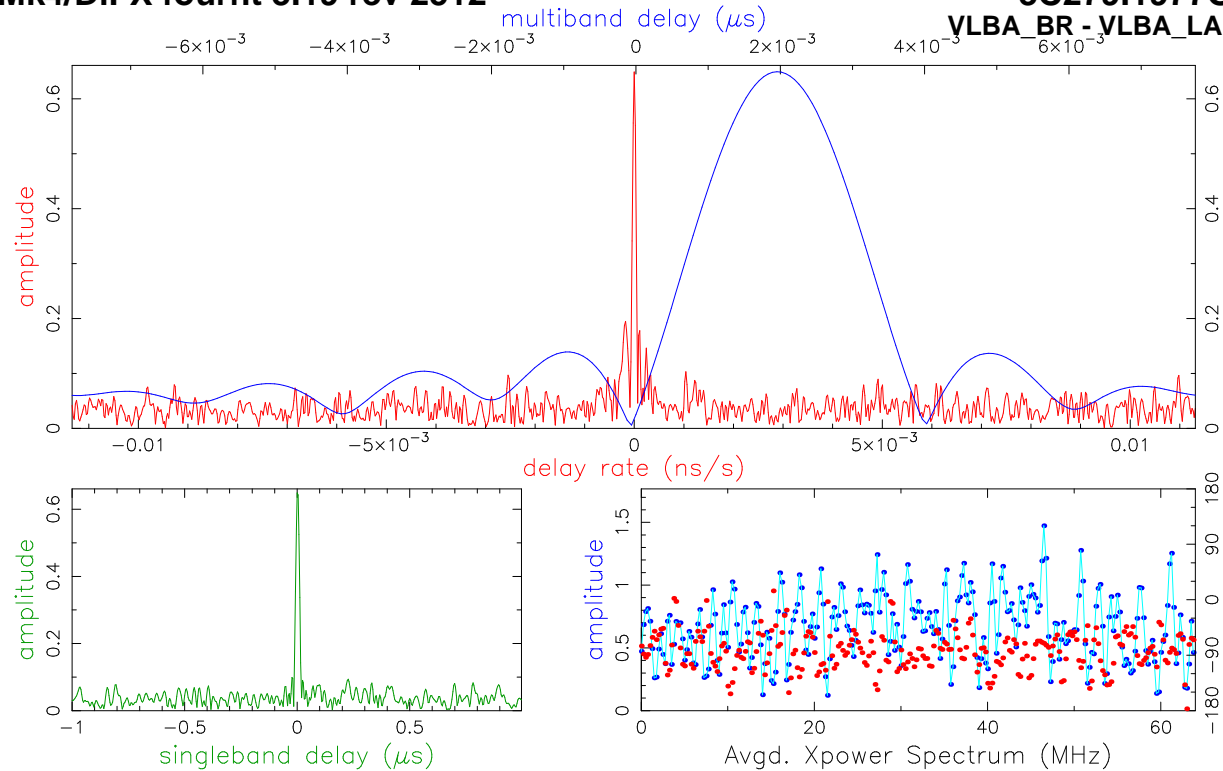
RMS Theor. Amplitude 0.691 +/- 0.028
Search (1024X32) 0.662
Interp. 0.000
Inc. seg. avg. 0.753
Inc. frq. avg. 0.699

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
SampCntNorm: enabled
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

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

b: az 183.3 el 35.9 pa 2.2 l: az 203.3 el 45.7 pa 19.3 u,v (fr/asec) -1726.143 1308.355 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bl..1977GD Output file: /Exps/c201e/v1/1234/No0089/bl.W.26.1977GD

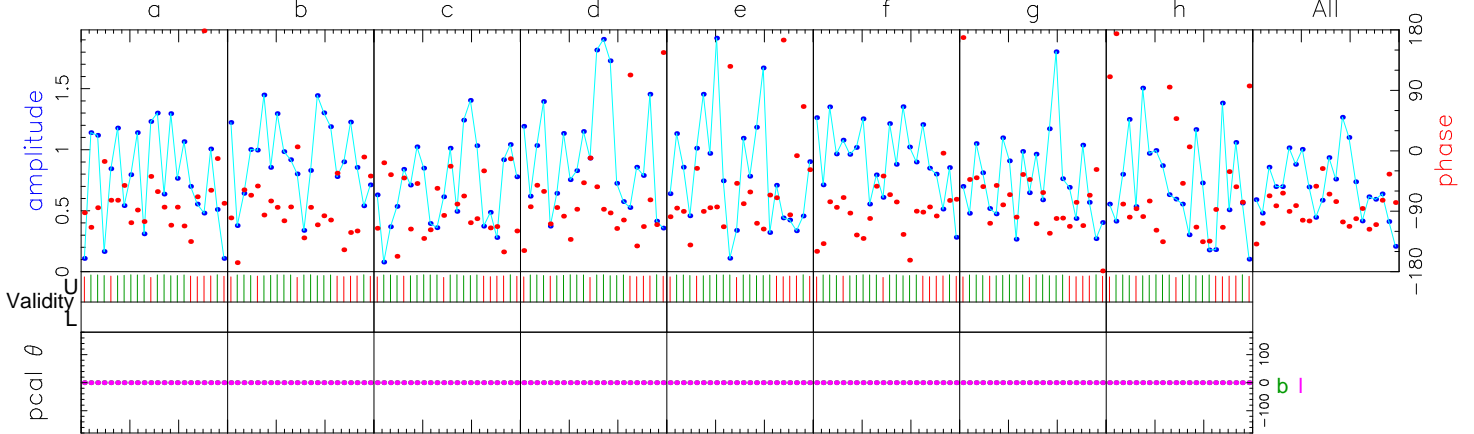


Fringe quality 8

SNR 23.8
Int time 173.030
Amp 0.661
Phase -88.1
PFD 0.0e+00
Delays (us)
SBD 0.001749
MBD 0.002005
Fringe rate (Hz)
-0.000933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160056
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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



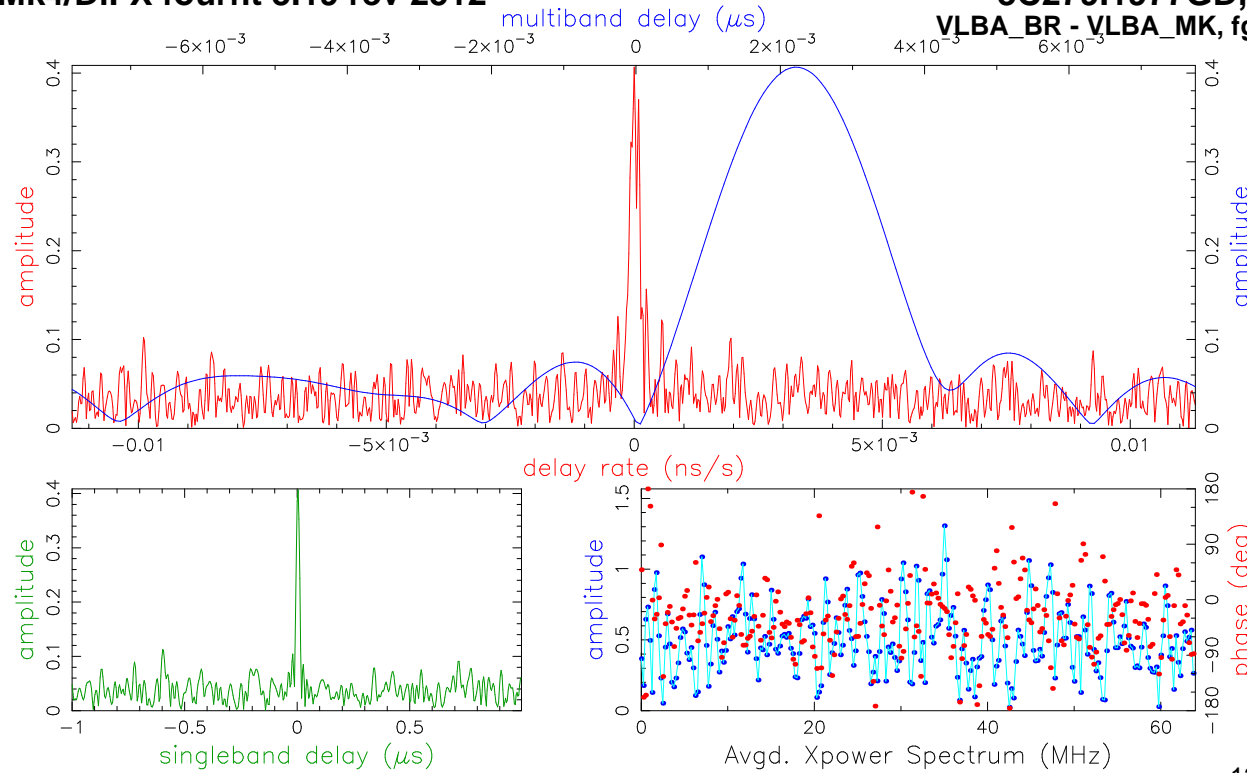
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.70070272641E+03	Apriori delay (usec)	-2.70070473116E+03	Resid mbdelay (usec)	2.00475E-03	+/-	4.6E-05
Sband delay (usec)	-2.70070298266E+03	Apriori clock (usec)	2.3212330E+00	Resid sbdelay (usec)	1.74850E-03	+/-	3.6E-04
Phase delay (usec)	-2.70070473400E+03	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-2.83938E-06	+/-	1.6E-07
Delay rate (us/s)	3.01033173116E-01	Apriori rate (us/s)	3.01033183948E-01	Resid rate (us/s)	-1.08324E-08	+/-	1.5E-09
Total phase (deg)	-283.3	Apriori accel (us/s/s)	1.25181644429E-05	Resid phase (deg)	-88.1	+/-	4.8

ph/seg (deg)	26.7	RMS	11.3	Theor.	11.3	Amplitude	0.661 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	38.3	Search (1024X32)	0.626	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	5.5	Inc. seg. avg.	0.698	Inc. frq. avg.	0.646	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	16.9	Inc. frq. avg.	0.646	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite

b: az 183.3 el 35.9 pa 2.2 l: az 203.3 el 45.7 pa 19.3 u,v (fr/asec) -1726.143 1308.355 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bl..1977GD Output file: /Exps/c201e/v1/1234/No0089/bl.W.3.1977GD

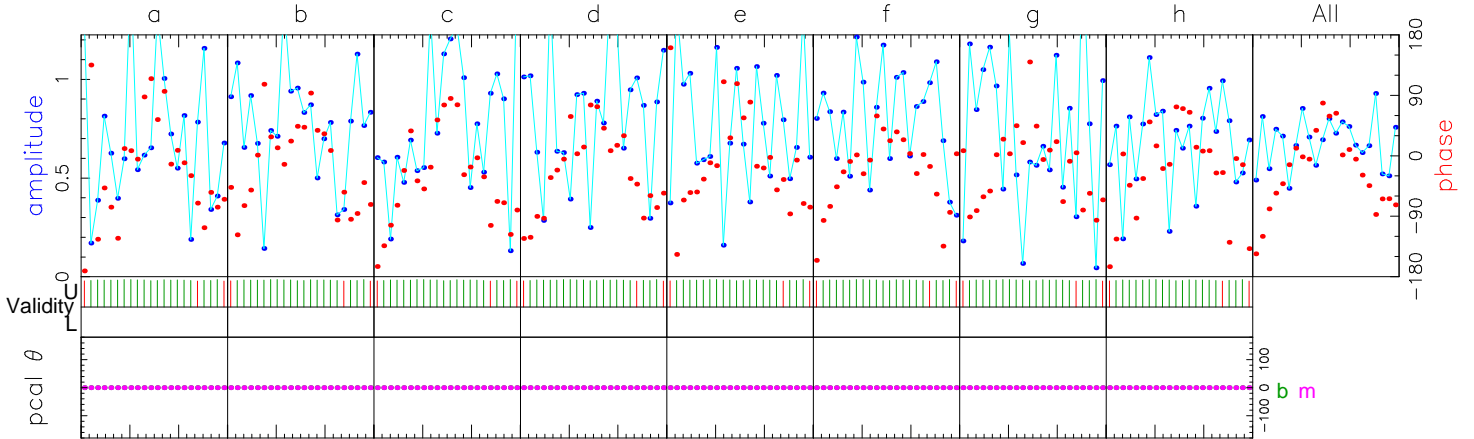


Fringe quality 9

SNR 14.8
Int time 175.496
Amp 0.409
Phase -23.2
PFD 4.5e-41
Delays (us)
SBD 0.003019
MBD 0.002205
Fringe rate (Hz) -0.000921
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

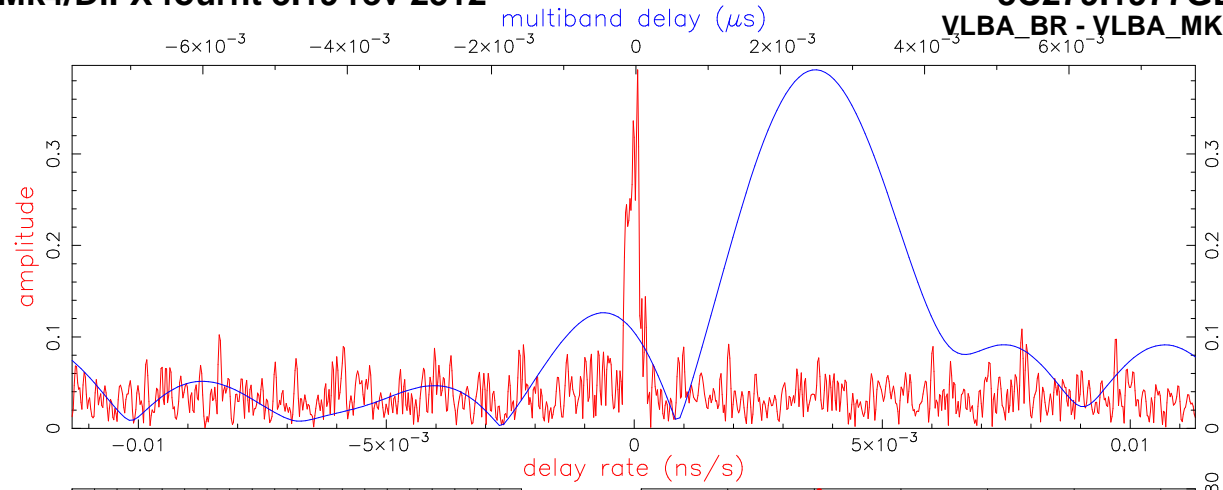
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160100
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.7	-18.7	-26.5	-25.1	-35.5	-15.2	-32.0	-8.6	Phase	-23.2
	0.2	0.4	0.3	0.5	0.4	0.5	0.5	0.3	Ampl.	0.4
	36.3	257.8	256.9	257.7	258.3	258.0	257.7	258.3	Sbd box	257.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.53587987016E+03		Apriori delay (usec)		-3.53588207469E+03		Resid mbdelay (usec)		2.20453E-03	+/- 7.3E-05
Sband delay (usec)	-3.53587905594E+03		Apriori clock (usec)		-9.6055059E+00		Resid sbdelay (usec)		3.01875E-03	+/- 5.8E-04
Phase delay (usec)	-3.53588207543E+03		Apriori clockrate (us/s)		-5.3299997E-07		Resid phdelay (usec)		-7.47106E-07	+/- 2.5E-07
Delay rate (us/s)	-8.40448480539E-01		Apriori rate (us/s)		-8.40448469847E-01		Resid rate (us/s)		-1.06921E-08	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.40501841478E-05		Resid phase (deg)		-23.2	+/- 7.7

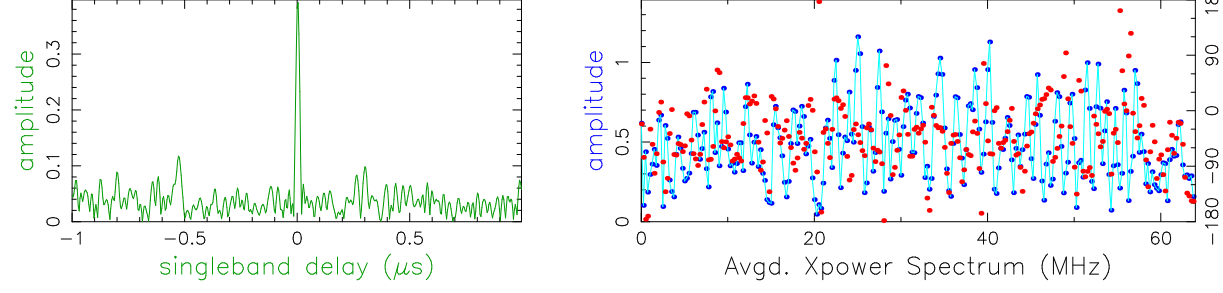
ph/seg (deg) 56.8 18.2 Search (1024X32) 0.386 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.3 31.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.5 10.9 Inc. seg. avg. 0.649 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.0 19.1 Inc. frq. avg. 0.403 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 183.3 el 35.9 pa 2.2 m: az 124.9 el 48.5 pa -50.9 u,v (fr/asec) 4847.844 3460.018 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bm..1977GD Output file: /Exps/c201e/v1/1234/No0089/bm.W.21.1977GD



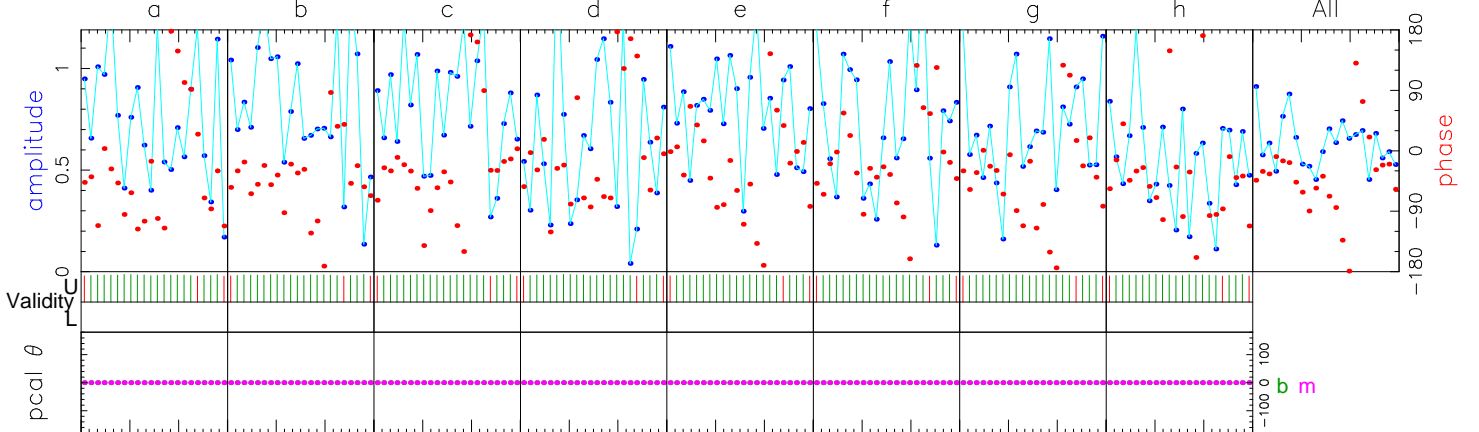
Fringe quality 9

SNR 14.4
Int time 175.501
Amp 0.397
Phase -41.5
PFD 2.2e-38
Delays (us)
SBD 0.002444
MBD 0.002463
Fringe rate (Hz)
0.006292
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160057
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

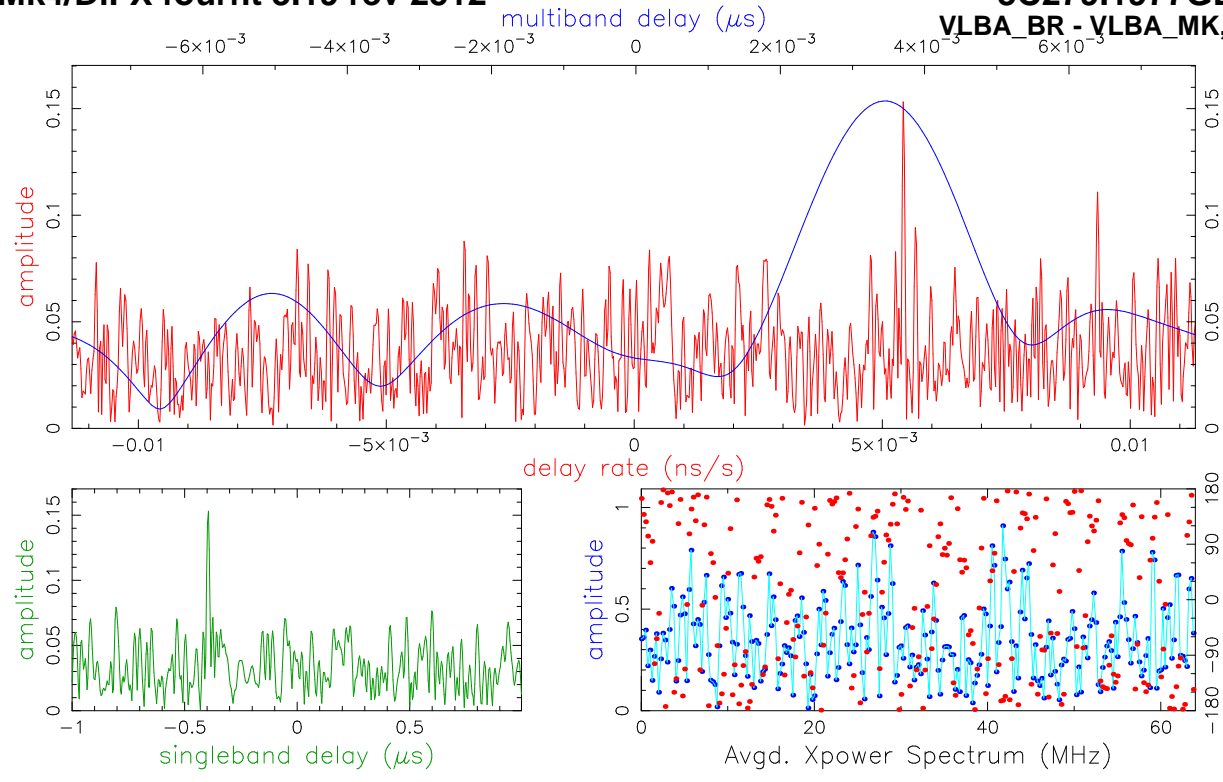


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



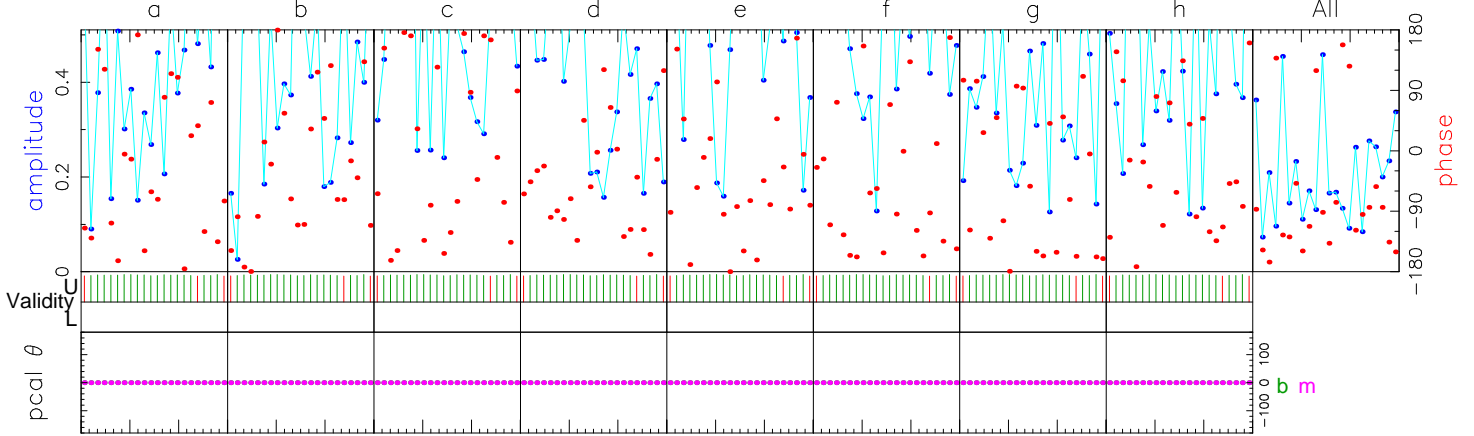
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-58.7	-39.0	-48.4	-35.2	-28.7	-17.3	-48.4	-59.8	Phase	-41.5
	0.4	0.6	0.4	0.4	0.4	0.4	0.4	0.3	Ampl.	0.4
	256.6	258.0	257.4	257.5	257.6	258.2	257.5	256.9	Sbd box	257.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.53587961185E+03		Apriori delay (usec)		-3.53588207469E+03		Resid mbdelay (usec)		2.46284E-03	+/- 7.5E-05
Sband delay (usec)	-3.53587963044E+03		Apriori clock (usec)		-9.6055059E+00		Resid sbdelay (usec)		2.44425E-03	+/- 6.0E-04
Phase delay (usec)	-3.53588207602E+03		Apriori clockrate (us/s)		-5.3299997E-07		Resid phdelay (usec)		-1.33747E-06	+/- 2.6E-07
Delay rate (us/s)	-8.40448396808E-01		Apriori rate (us/s)		-8.40448469847E-01		Resid rate (us/s)		7.30381E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.40501841478E-05		Resid phase (deg)		-41.5	+/- 8.0

ph/seg (deg) 61.5 18.7 Search (1024X32) 0.384 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 66.6 32.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 15.9 11.3 Inc. seg. avg. 0.601 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 19.0 19.7 Inc. frq. avg. 0.395 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 183.3 el 35.9 pa 2.2 m: az 124.9 el 48.5 pa -50.9 u,v (fr/asec) 4847.844 3460.018 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bm..1977GD Output file: /Exps/c201e/v1/1234/No0089/bm.W.5.1977GD



Fringe quality 0
SNR 5.6
Int time 175.496
Amp 0.170
Phase -114.5
PFD 9.3e-01
Delays (us)
SBD -0.395578
MBD 0.003356
Fringe rate (Hz)
0.468931
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160105
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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

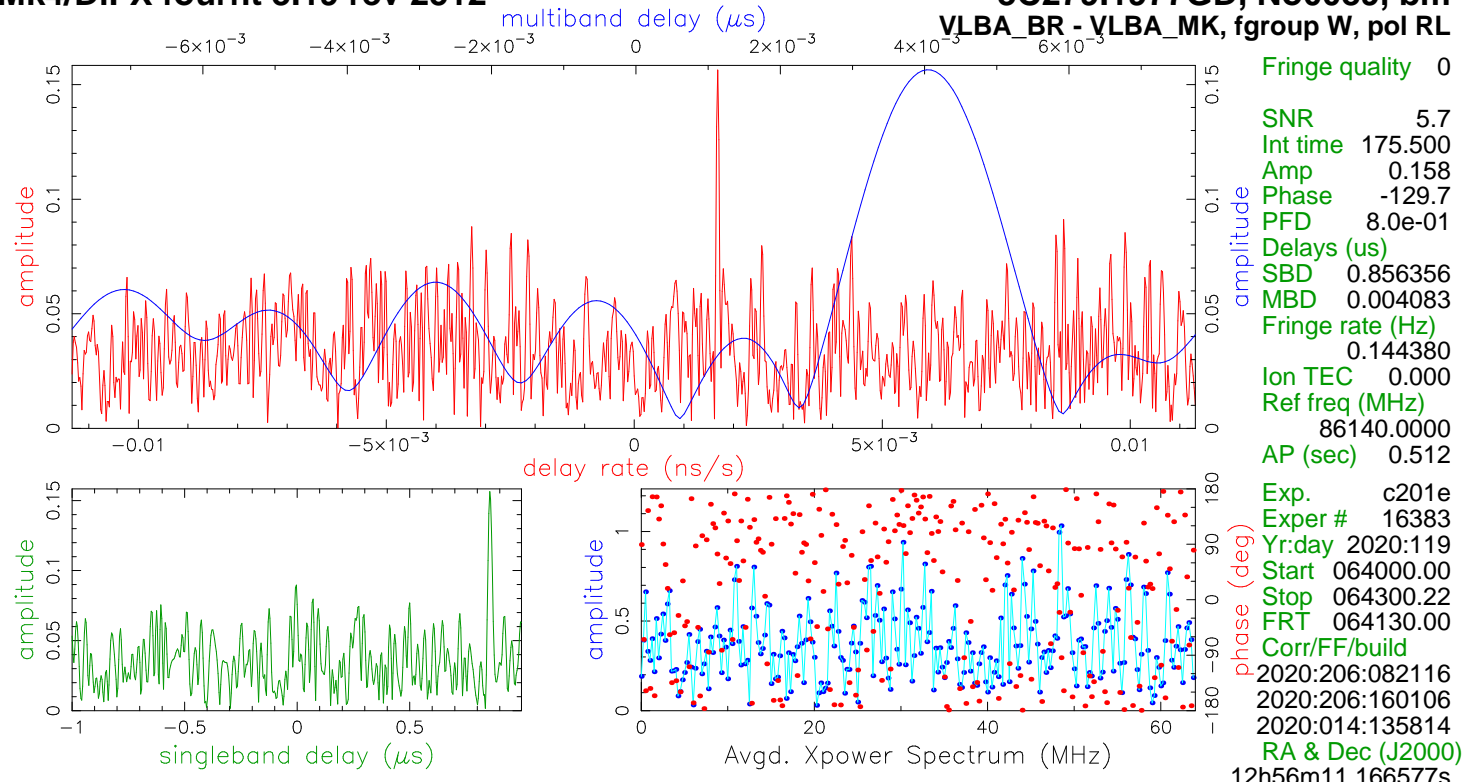


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-148.2	-106.5	-158.1	-71.8	-91.2	-120.6	-156.1	-107.1	Phase	-114.5
	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.2	Ampl.	0.2
	245.9	501.1	156.8	363.1	11.2	461.7	313.3	125.1	Sbd box	155.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

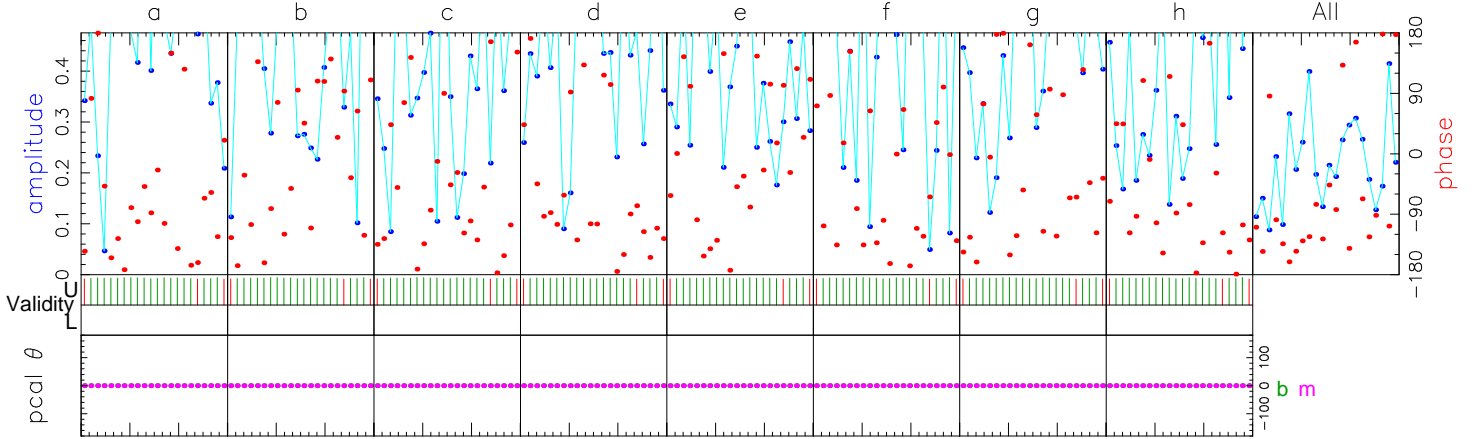
Group delay (usec)(sbd)	-3.53628496879E+03	Apriori delay (usec)	-3.53588207469E+03	Resid mbdelay (usec)	3.35590E-03	+/-	1.9E-04
Sband delay (usec)	-3.53627765244E+03	Apriori clock (usec)	-9.6055059E+00	Resid sbdelay (usec)	-3.95578E-01	+/-	1.5E-03
Phase delay (usec)	-3.53588207838E+03	Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	-3.69300E-06	+/-	6.6E-07
Delay rate (us/s)	-8.40443026024E-01	Apriori rate (us/s)	-8.40448469847E-01	Resid rate (us/s)	5.44382E-06	+/-	6.3E-09
Total phase (deg)	-83.4	Apriori accel (us/s/s)	1.40501841478E-05	Resid phase (deg)	-114.5	+/-	20.5

ph/seg (deg)	56.6	Theor.	48.0	Amplitude	0.170 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.7	Search (1024X32)	0.152	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	34.9	Inc. seg. avg.	0.172	Inc. frq. avg.	0.174	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	42.4	Inc. frq. avg.	0.174	Sample rate (MSamp/s): 128		Data rate (Mb/s): 2048	mb window (us) -0.008 0.008
				nlags: 256	t_cohere infinite		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 183.3 el 35.9 pa 2.2 m: az 124.9 el 48.5 pa -50.9 u,v (fr/asec) 4847.844 3460.018 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bm..1977GD Output file: /Exps/c201e/v1/1234/No0089/bm.W.54.1977GD



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



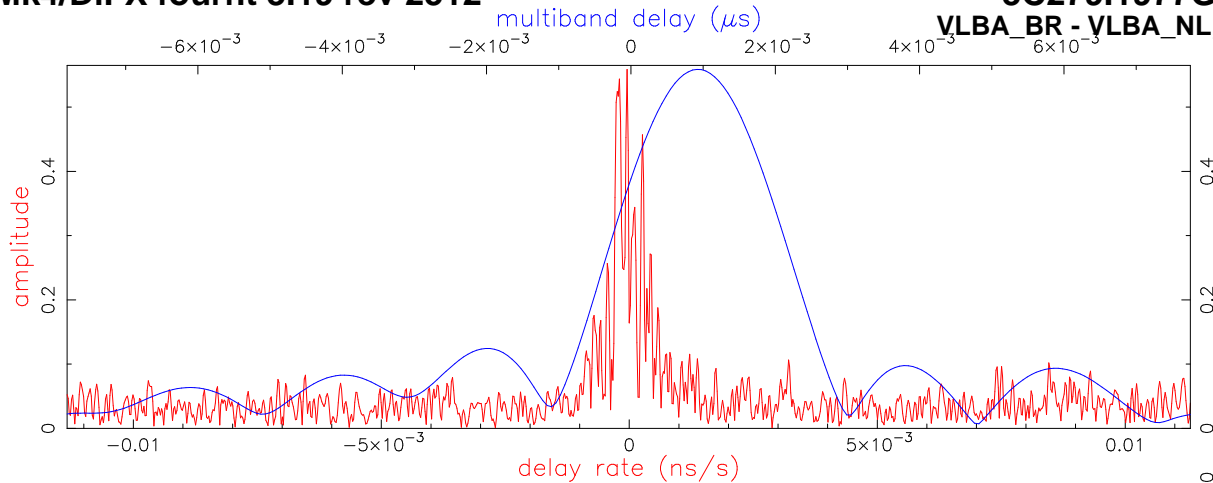
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.0	-177.8	-138.1	-123.5	-99.5	-146.6	-124.3	-133.0	Phase	-129.7
	0.2	0.1	0.1	0.3	0.1	0.2	0.1	0.2	Ampl.	0.1
	245.1	393.0	478.9	293.1	325.2	268.8	9.1	477.4	Sbd box	476.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.53501861657E+03	Apriori delay (usec)	-3.53588207469E+03	Resid mbdelay (usec)	4.08312E-03	+/-	1.9E-04
Sband delay (usec)	-3.53502571869E+03	Apriori clock (usec)	-9.6055059E+00	Resid sbdelay (usec)	8.56356E-01	+/-	1.5E-03
Phase delay (usec)	-3.53588207887E+03	Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	-4.18234E-06	+/-	6.5E-07
Delay rate (us/s)	-8.40446793744E-01	Apriori rate (us/s)	-8.40448469847E-01	Resid rate (us/s)	1.67610E-06	+/-	6.2E-09
Total phase (deg)	-98.6	Apriori accel (us/s/s)	1.40501841478E-05	Resid phase (deg)	-129.7	+/-	20.2

ph/seg (deg)	52.8	Theor.	47.3	Amplitude	0.158 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.3	Search (1024X32)	0.152	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	25.2	Inc. seg. avg.	0.167	Inc. frq. avg.	0.146	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	45.1	Inc. frq. avg.	0.146			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

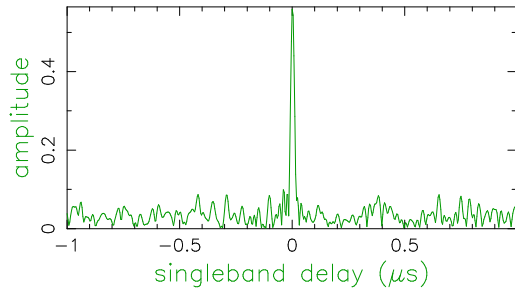
b: az 183.3 el 35.9 pa 2.2 m: az 124.9 el 48.5 pa -50.9 u,v (fr/asec) 4847.844 3460.018 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bm..1977GD Output file: /Exps/c201e/v1/1234/No0089/bm.W.65.1977GD

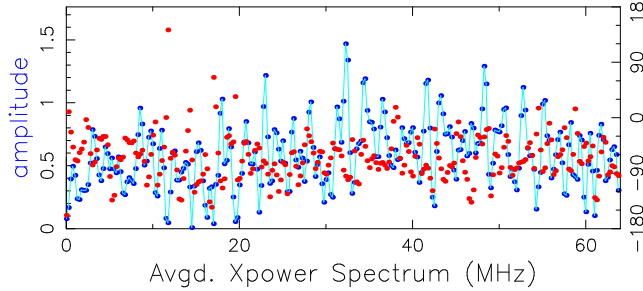


Fringe quality 9

SNR 20.4
Int time 175.121
Amp 0.565
Phase -61.9
PFD 0.0e+00
Delays (us)
SBD 0.001368
MBD 0.000948
Fringe rate (Hz)
-0.003670
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

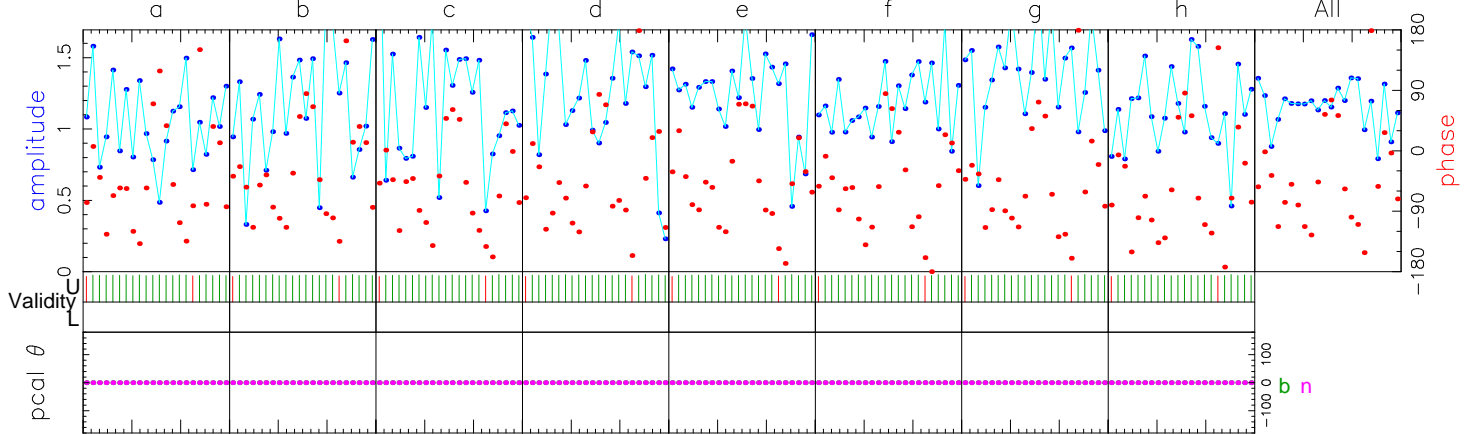


delay rate (ns/s)



Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160059
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

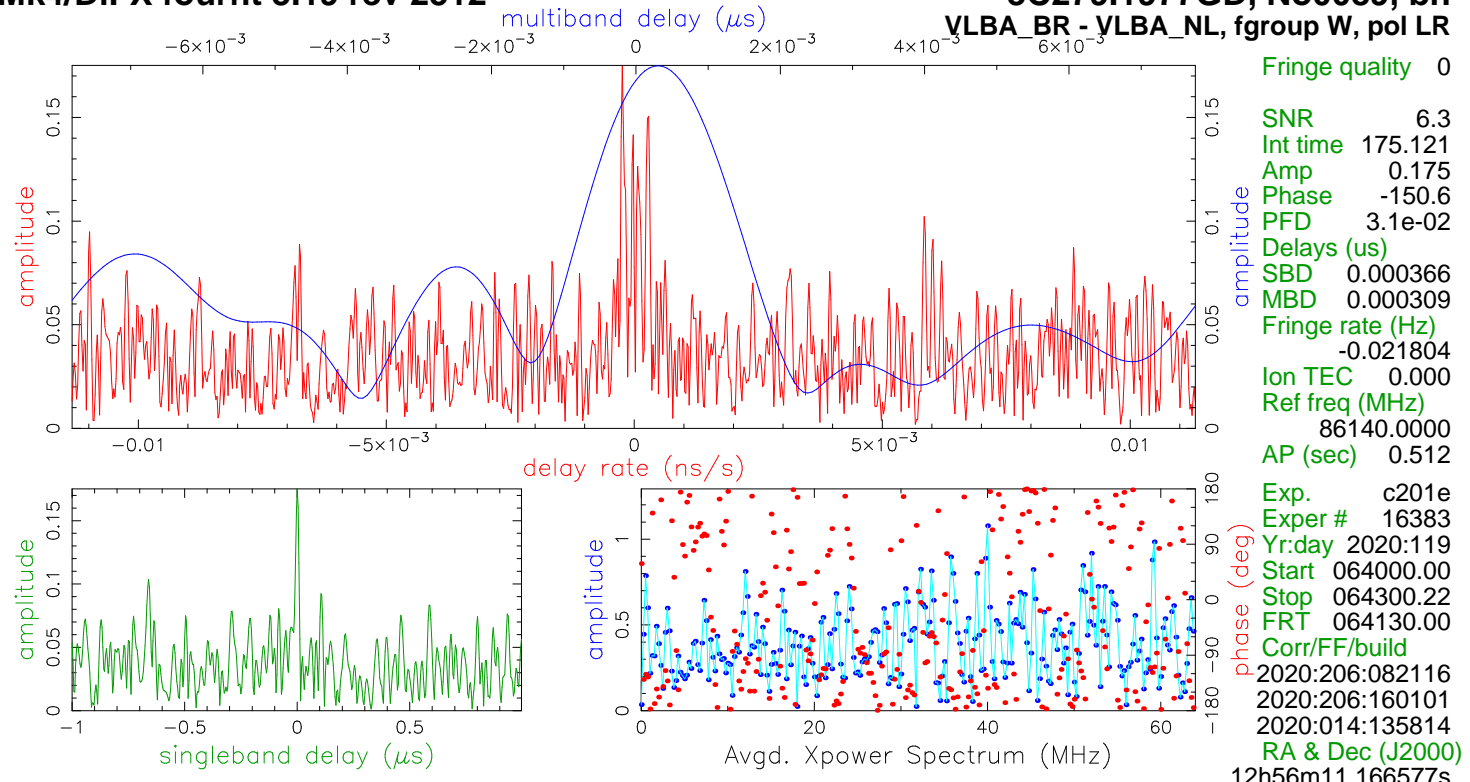
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-67.1	-60.3	-56.4	-67.1	-52.0	-56.0	-64.5	-73.4	Phase	-61.9
	0.5	0.5	0.6	0.7	0.6	0.5	0.7	0.4	Ampl.	0.6
	258.0	257.2	257.4	257.5	257.4	257.0	257.4	257.1	Sbd box	257.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.03073230523E+02		Apriori delay (usec)		4.03072282591E+02		Resid mbdelay (usec)		9.47932E-04	+/- 5.3E-05
Sband delay (usec)	4.03073650591E+02		Apriori clock (usec)		-3.3758636E+01		Resid sbdelay (usec)		1.36800E-03	+/- 4.2E-04
Phase delay (usec)	4.03072280596E+02		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-1.99478E-06	+/- 1.8E-07
Delay rate (us/s)	5.41488684645E-01		Apriori rate (us/s)		5.41488727251E-01		Resid rate (us/s)		-4.26056E-08	+/- 1.7E-09
Total phase (deg)	90.2		Apriori accel (us/s/s)		-3.23405219915E-06		Resid phase (deg)		-61.9	+/- 5.6

ph/seg (deg) 66.5 13.1 Amplitude 0.565 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 108.1 22.9 Search (1024X32) 0.558 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.7 7.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.0 13.8 Inc. seg. avg. 1.128 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.557 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 183.3 el 35.9 pa 2.2 n: az 218.3 el 34.7 pa 27.8 u,v (fr/asec) -3118.970 718.444 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bn..1977GD Output file: /Exps/c201e/v1/1234/No0089/bn.W.16.1977GD



Fringe quality 0

SNR 6.3

Int time 175.121

Amp 0.175

Phase -150.6

PFD 3.1e-02

Delays (us)

SBD 0.000366

MBD 0.000309

Fringe rate (Hz)

-0.021804

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 064000.00

Stop 064300.22

FRT 064130.00

Corr/FF/build

2020:206:082116

2020:206:160101

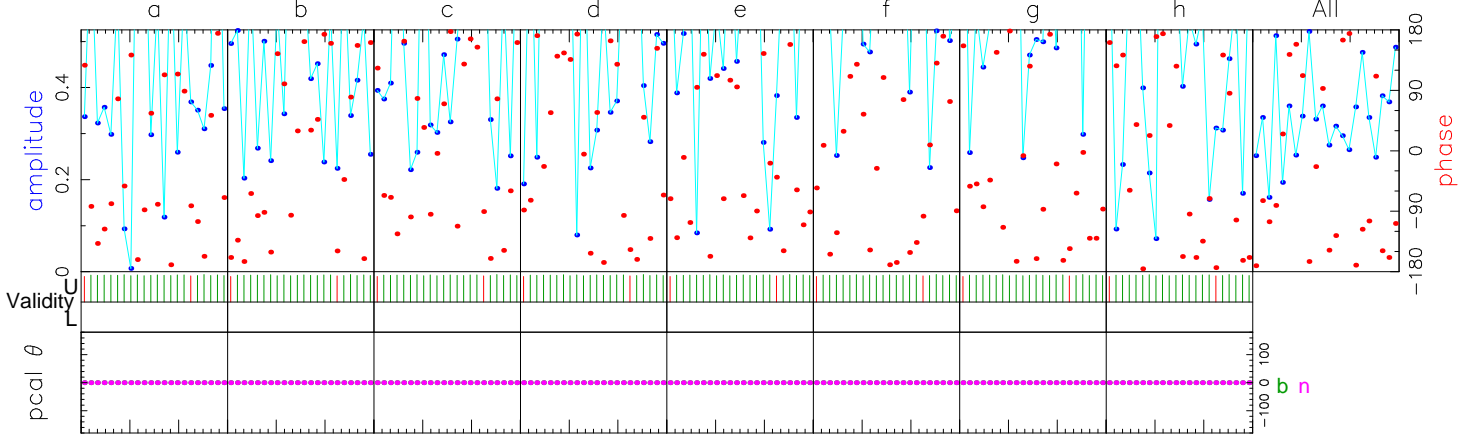
2020:014:135814

RA & Dec (J2000)

12h56m11.166577s

--5°47'21.525129"

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

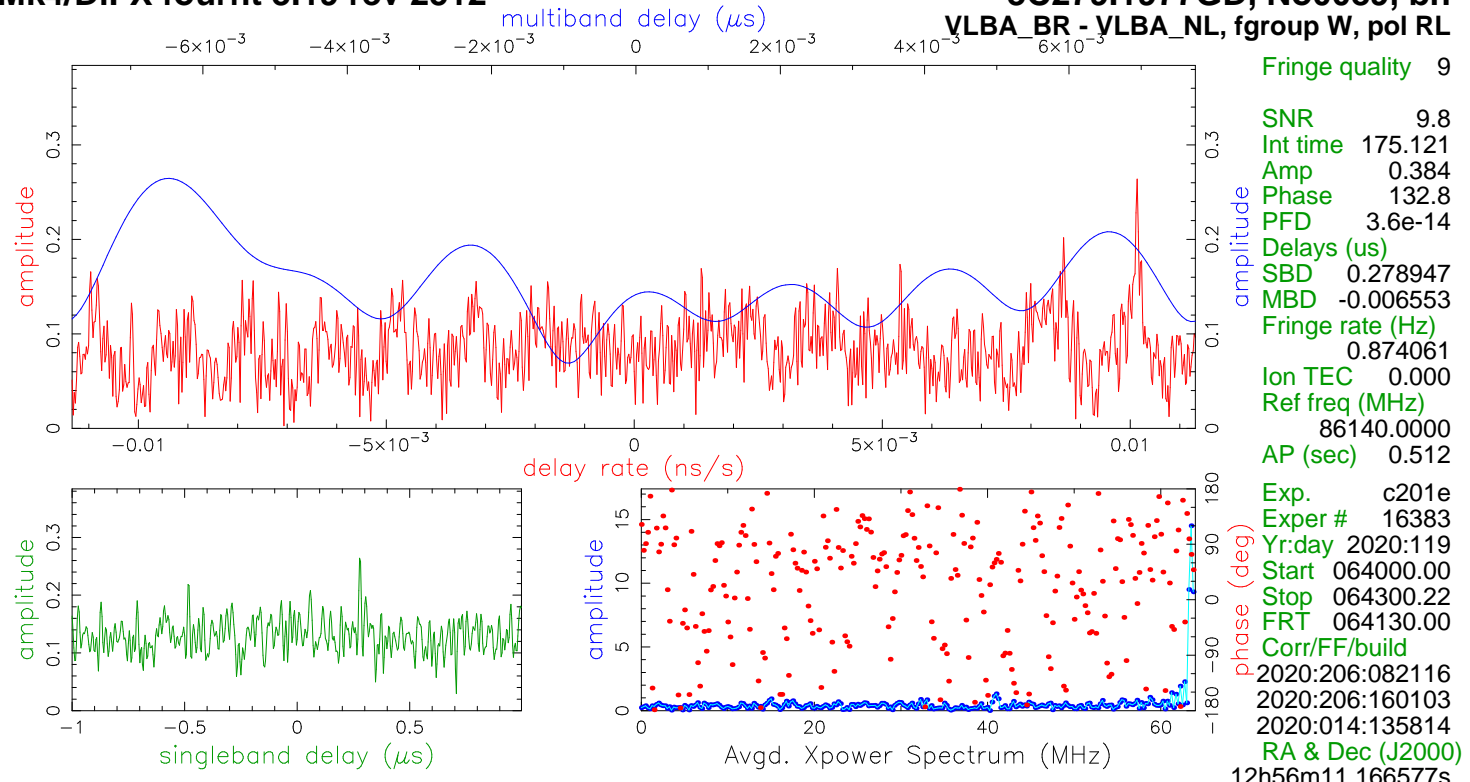


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.9	-154.6	-170.9	-166.7	-119.2	165.7	-129.7	-178.7	Phase	-150.6
	0.2	0.1	0.2	0.1	0.3	0.1	0.4	0.2	Ampl.	0.2
	23.5	446.3	378.7	315.1	356.8	284.8	257.6	430.7	Sbd box	257.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.03072591326E+02		Apriori delay (usec)		4.03072282591E+02		Resid mbdelay (usec)		3.08735E-04	+/- 1.7E-04
Sband delay (usec)	4.03072648341E+02		Apriori clock (usec)		-3.3758636E+01		Resid sbdelay (usec)		3.65750E-04	+/- 1.4E-03
Phase delay (usec)	4.03072277734E+02		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-4.85645E-06	+/- 5.8E-07
Delay rate (us/s)	5.41488474130E-01		Apriori rate (us/s)		5.41488727251E-01		Resid rate (us/s)		-2.53121E-07	+/- 5.6E-09
Total phase (deg)	1.5		Apriori accel (us/s/s)		-3.23405219915E-06		Resid phase (deg)		-150.6	+/- 18.1

	RMS	Theor.	Amplitude	0.175 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	70.5	42.4	Search (1024X32)	0.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	107.3	74.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	28.6	25.6	Inc. seg. avg.	0.265	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	47.5	44.6	Inc. frq. avg.	0.175	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bn
VLBA_BR - VLBA_NL, fgroup W, pol RL



Fringe quality 9

SNR 9.8

Int time 175.121

Amp 0.384

Phase 132.8

PDF 3.6e-14

Delays (us)

SBD 0.278947

MBD -0.006553

Fringe rate (Hz)

0.874061

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 064000.00

Stop 064300.22

FRT 064130.00

Corr/FF/build

2020:206:082116

2020:206:160103

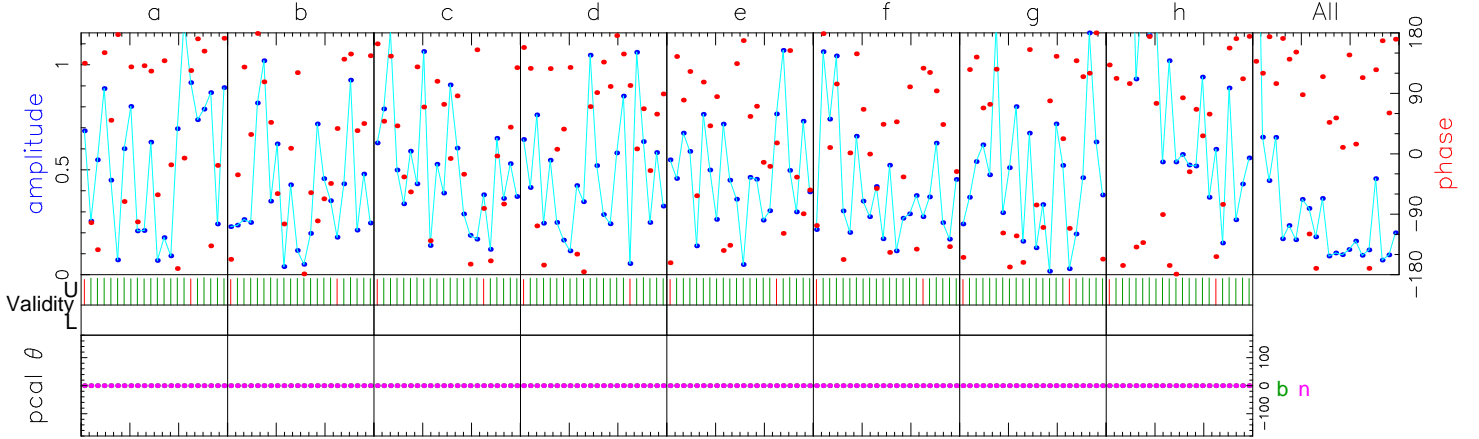
2020:014:135814

RA & Dec (J2000)

12h56m11.166577s

--5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.03346979674E+02		Apriori delay (usec)		4.03072282591E+02		Resid mbdelay (usec)		-6.55292E-03	+/- 1.1E-04
Sband delay (usec)	4.03351229841E+02		Apriori clock (usec)		-3.3758636E+01		Resid sbdelay (usec)		2.78947E-01	+/- 8.8E-04
Phase delay (usec)	4.03072286873E+02		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		4.28221E-06	+/- 3.8E-07
Delay rate (us/s)	5.41498874235E-01		Apriori rate (us/s)		5.41488727251E-01		Resid rate (us/s)		1.01470E-05	+/- 3.6E-09
Total phase (deg)	284.8		Apriori accel (us/s/s)		-3.23405219915E-06		Resid phase (deg)		132.8	+/- 11.7

ph/seg (deg) 59.0 27.5 Search (1024X32) 0.260 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 174.4 48.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 34.1 16.6 Inc. seg. avg. 0.432 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

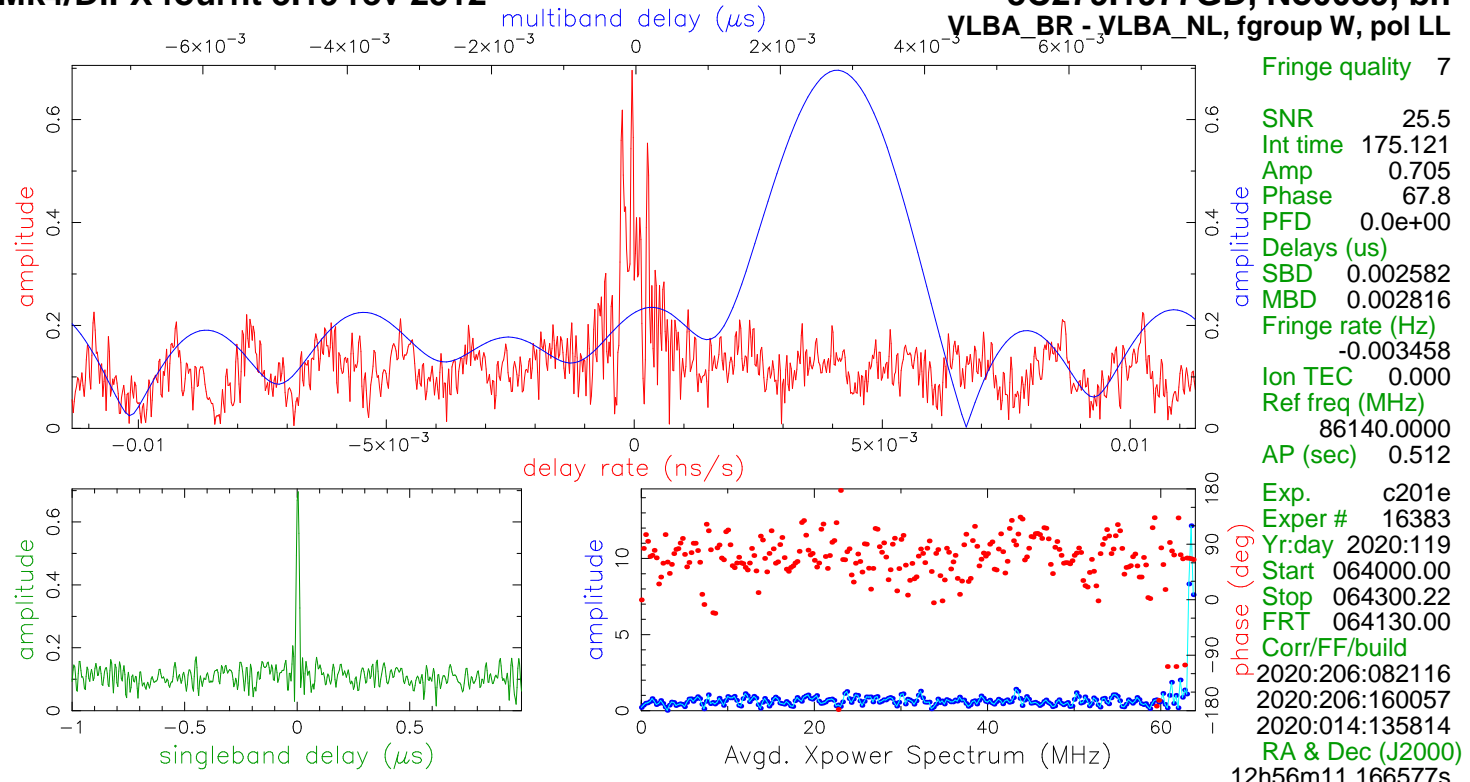
amp/frq (%) 131.2 29.0 Inc. frq. avg. 0.391 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

b: az 183.3 el 35.9 pa 2.2 n: az 218.3 el 34.7 pa 27.8 u,v (fr/asec) -3118.970 718.444 ion window (TEC) 0.00 0.00 simultaneous interpolator

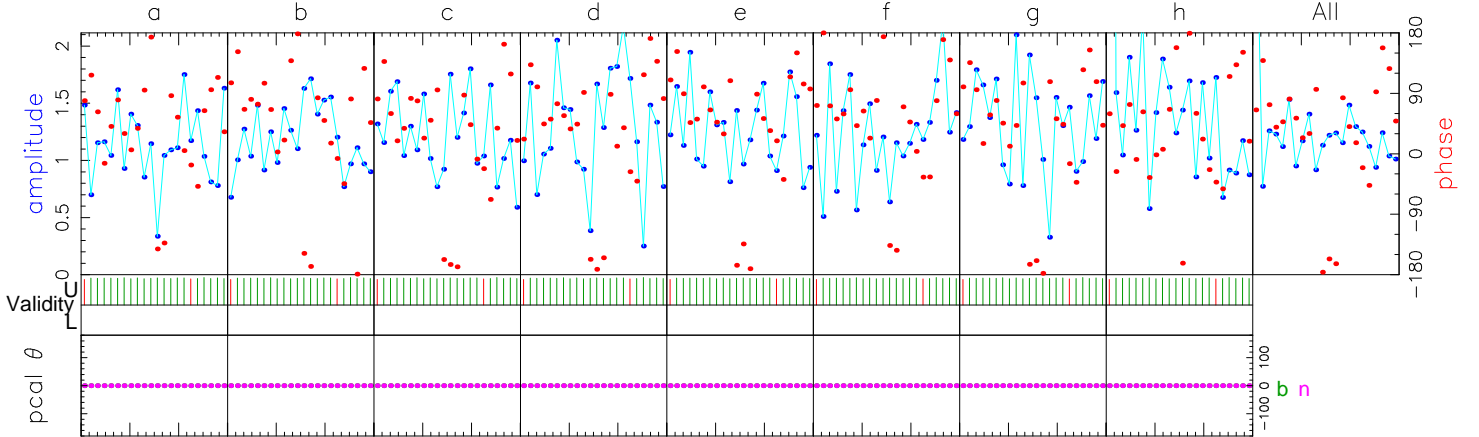
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bn..1977GD Output file: /Exps/c201e/v1/1234/No0089/bn.W.40.1977GD

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bn
VLBA_BR - VLBA_NL, fgroup W, pol LL



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
47.4	85.1	65.9	70.4	88.0	73.7	79.6	52.0	52.0	Phase	67.8
0.7	0.5	0.5	0.6	0.7	0.6	0.7	1.4	1.4	Ampl.	0.7
257.4	258.1	257.9	258.7	257.6	257.9	257.3	257.0	257.7	Sbd box	257.7
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n 0:0	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	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
n W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	4.03075098241E+02	Apriori delay (usec)	4.03072282591E+02	Resid mbdelay (usec)	2.81565E-03	+/-	4.3E-05
Sband delay (usec)	4.03074864591E+02	Apriori clock (usec)	-3.3758636E+01	Resid sbdelay (usec)	2.58200E-03	+/-	3.4E-04
Phase delay (usec)	4.03072284777E+02	Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	2.18663E-06	+/-	1.4E-07
Delay rate (us/s)	5.41488687112E-01	Apriori rate (us/s)	5.41488727251E-01	Resid rate (us/s)	-4.01384E-08	+/-	1.4E-09
Total phase (deg)	219.9	Apriori accel (us/s/s)	-3.23405219915E-06	Resid phase (deg)	67.8	+/-	4.5

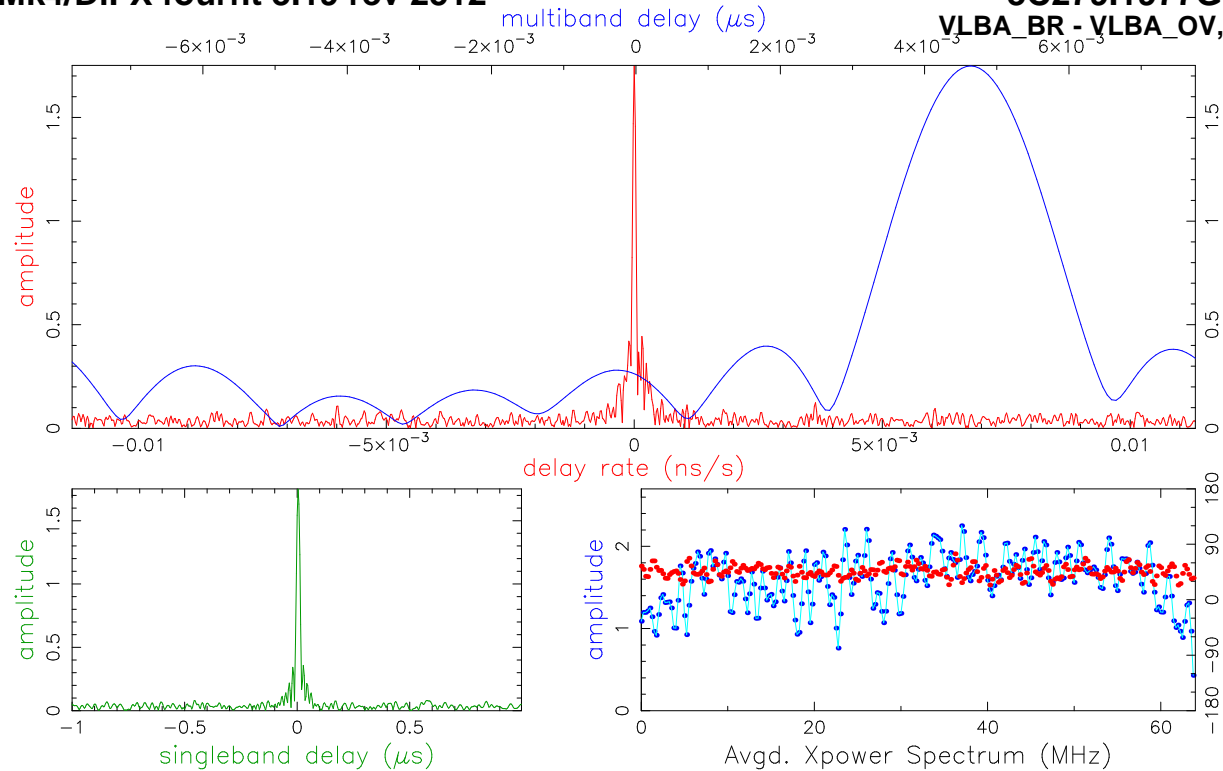
ph/seg (deg)	66.2	RMS	10.5	Theor.	Amplitude	0.705 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	109.5	66.2	10.5	Search (1024X32)	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	16.1	109.5	18.4	Inc. seg. avg.	Inc. frq. avg.	1.251	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.6	16.1	6.3	Inc. frq. avg.	Inc. frq. avg.	0.714	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 183.3 el 35.9 pa 2.2 n: az 218.3 el 34.7 pa 27.8 u,v (fr/asec) -3118.970 718.444 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bn..1977GD Output file: /Exps/c201e/v1/1234/No0089/bn.W.6.1977GD

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bo
VLBA_BR - VLBA_OV, fgroup W, pol RR

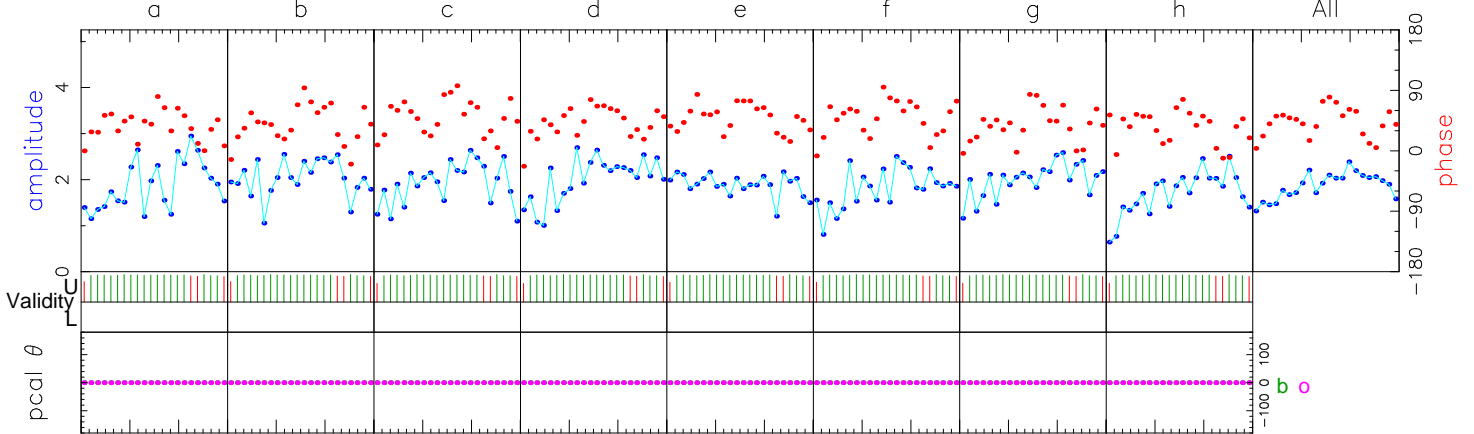


Fringe quality 8

SNR 63.0
Int time 172.905
Amp 1.751
Phase 43.6
PFD 0.0e+00
Delays (us)
SBD 0.004454
MBD 0.004649
Fringe rate (Hz) 0.000512
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160059
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

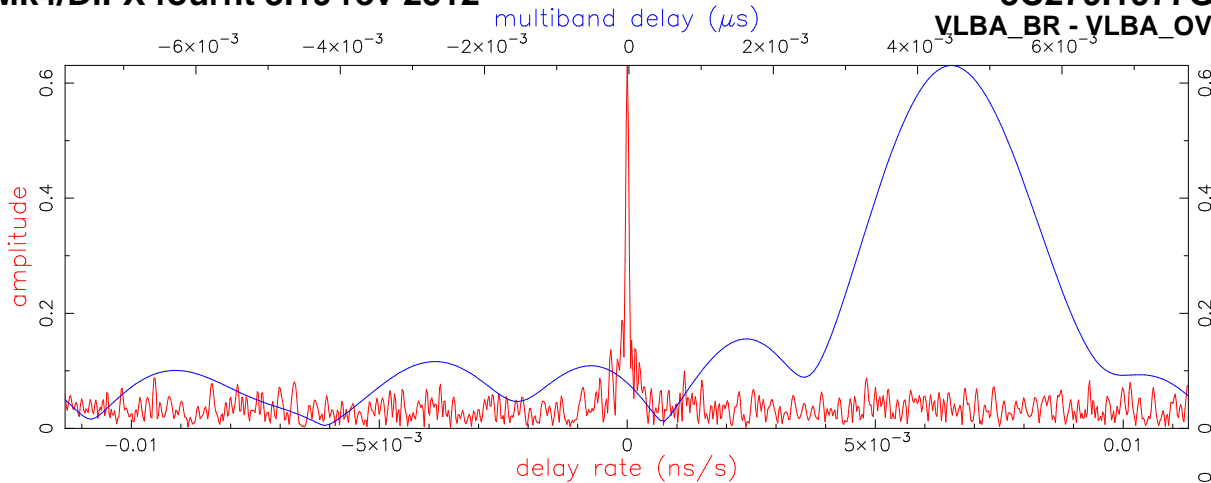
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



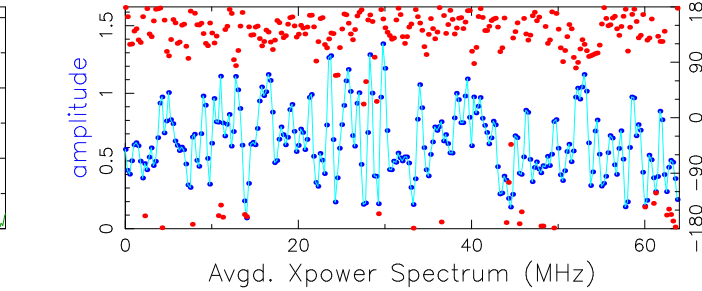
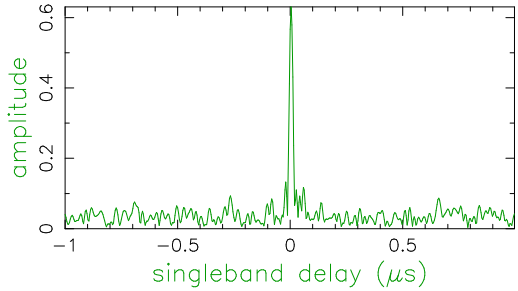
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.01686020224E+03								4.64875E-03	+/- 1.7E-05
Sband delay (usec)	-3.01686039674E+03								4.45425E-03	+/- 1.4E-04
Phase delay (usec)	-3.01686484958E+03								1.40611E-06	+/- 5.9E-08
Delay rate (us/s)	4.07940195767E-02								5.94763E-09	+/- 5.6E-10
Total phase (deg)			-51.4						43.6	+/- 1.8
	RMS	Theor.	Amplitude	1.751 +/- 0.028						
ph/seg (deg)	21.0	4.3	Search (1024X32)	1.685						
amp/seg (%)	17.0	7.4	Interp.	0.000						
ph/frq (deg)	7.2	2.6	Inc. seg. avg.	1.871						
amp/frq (%)	5.6	4.5	Inc. frq. avg.	1.756						

b: az 183.3 el 35.9 pa 2.2 o: az 186.0 el 46.7 pa 5.1 u,v (fr/asec) -226.975 1114.677 simultaneous interpolator

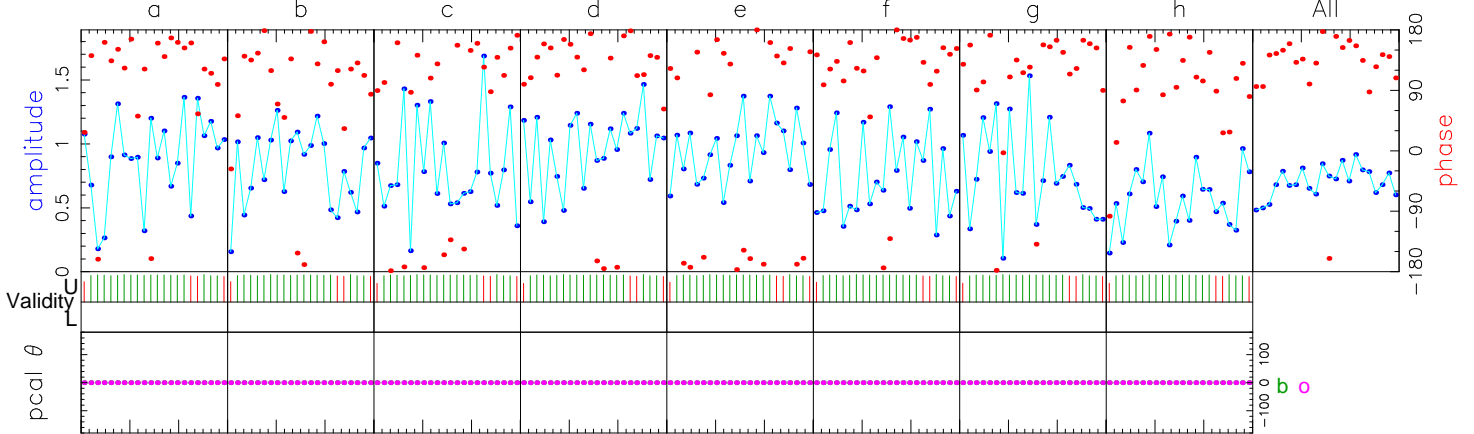
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bo..1977GD Output file: /Exps/c201e/v1/1234/No0089/bo.W.17.1977GD



Fringe quality 9
SNR 22.7
Int time 172.906
Amp 0.631
Phase 141.5
PFD 0.0e+00
Delays (us)
SBD 0.004116
MBD 0.004470
Fringe rate (Hz)
0.000437
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160101
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	133.8	125.7	149.3	144.3	165.9	143.8	137.9	113.7	Phase	141.5
b	0.7	0.6	0.7	0.8	0.8	0.6	0.7	0.4	Ampl.	0.6
o	257.9	257.2	258.4	258.1	258.3	258.4	258.0	257.2	Sbd box	258.1
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.01686038139E+03	Apriori delay (usec)	-3.01686485099E+03	Resid mbdelay (usec)	4.46959E-03	+/-	4.8E-05
Sband delay (usec)	-3.01686073499E+03	Apriori clock (usec)	-2.1536089E+01	Resid sbdelay (usec)	4.11600E-03	+/-	3.8E-04
Phase delay (usec)	-3.01686484642E+03	Apriori clockrate (us/s)	-2.4300001E-07	Resid phdelay (usec)	4.56261E-06	+/-	1.6E-07
Delay rate (us/s)	4.07940187009E-02	Apriori rate (us/s)	4.07940136291E-02	Resid rate (us/s)	5.07186E-09	+/-	1.6E-09
Total phase (deg)	46.4	Apriori accel (us/s/s)	1.43084651544E-05	Resid phase (deg)	141.5	+/-	5.1

ph/seg (deg)	27.7	Theor.	11.8	Amplitude	0.631 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	21.5		20.7	Search (1024X32)	0.624	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	17.1		7.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	18.9		12.5	Inc. seg. avg.	0.691	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.645	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 183.3 el 35.9 pa 2.2
Control file: cf_1234_gmva

o: az 186.0 el 46.7 pa 5.1

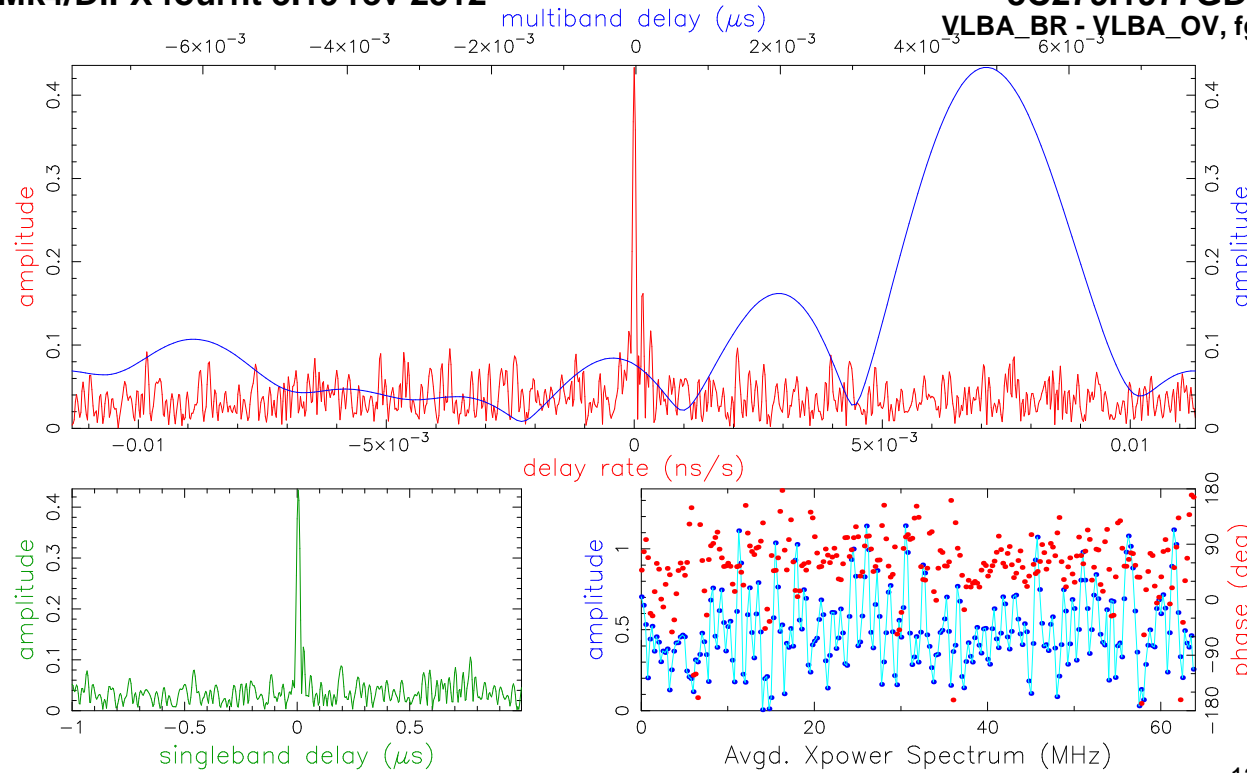
u,v (fr/asec) -226.975 1114.677

simultaneous interpolator

Input file: /Exps/c201e/v1/1234/No0089/bo..1977GD Output file: /Exps/c201e/v1/1234/No0089/bo.W.29.1977GD

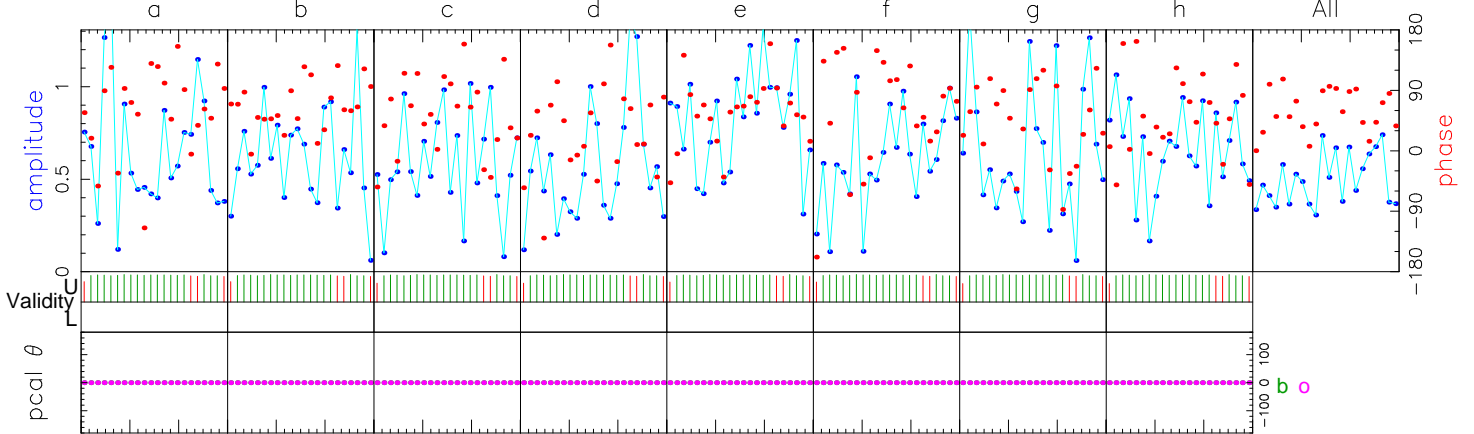
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bo
VLBA_BR - VLBA_OV, fgroup W, pol RL



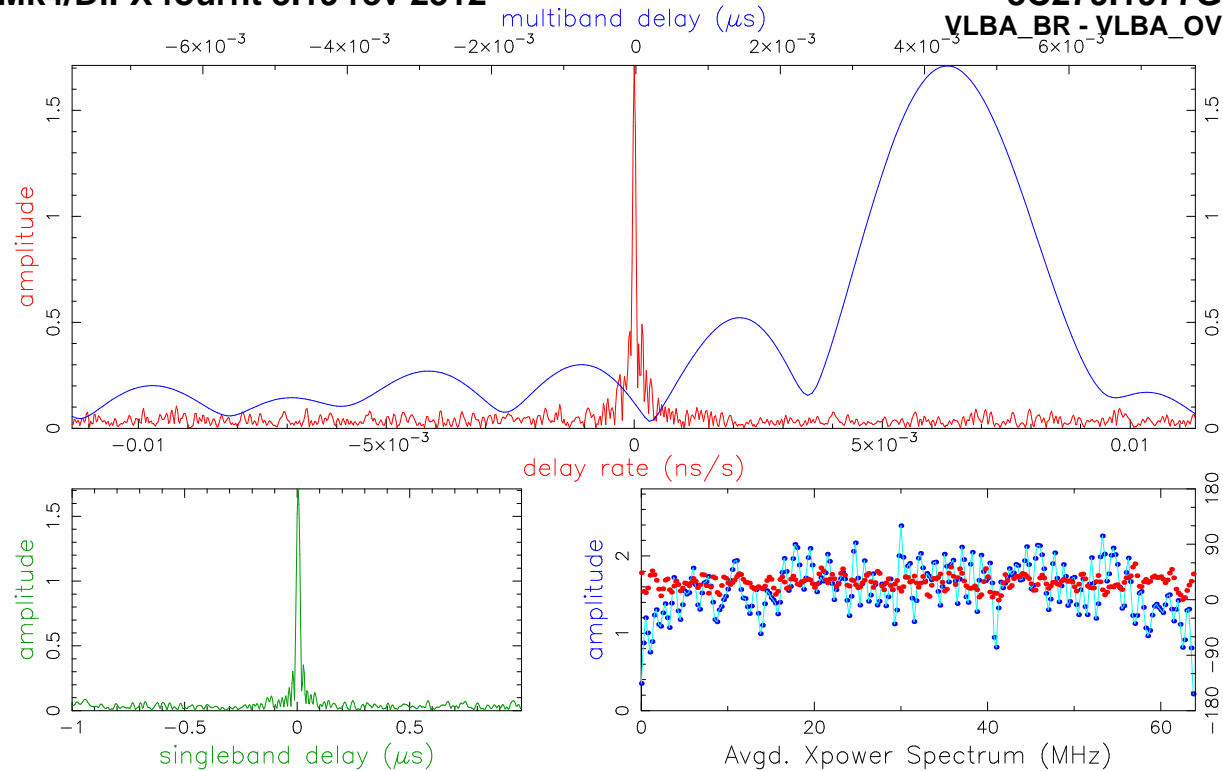
Fringe quality 9
SNR 15.7
Int time 172.905
Amp 0.436
Phase 63.4
PFD 0.0e+00
Delays (us)
SBD 0.004869
MBD 0.004868
Fringe rate (Hz) 0.000329
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160103
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.01685998249E+03									
Sband delay (usec)	-3.01685998174E+03									
Phase delay (usec)	-3.01686484894E+03									
Delay rate (us/s)	4.07940174524E-02									
Total phase (deg)			-31.6							
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)									63.4	+/- 7.3
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 30.9 17.2 Search (1024X32) 0.432 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 34.7 29.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 18.2 10.3 Inc. seg. avg. 0.479 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 18.7 18.1 Inc. frq. avg. 0.441 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 183.3 el 35.9 pa 2.2 o: az 186.0 el 46.7 pa 5.1 u,v (fr/asec) -226.975 1114.677 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bo..1977GD Output file: /Exps/c201e/v1/1234/No0089/bo.W.43.1977GD

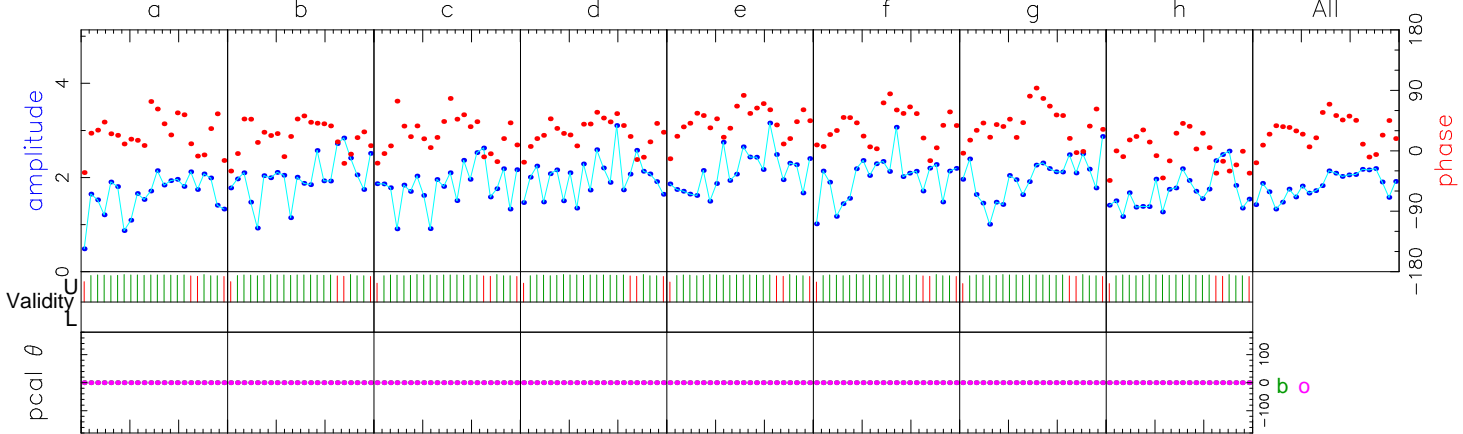


Fringe quality 7

SNR 61.6
Int time 172.906
Amp 1.712
Phase 28.5
PFD 0.0e+00
Delays (us)
SBD 0.004376
MBD 0.004328
Fringe rate (Hz) 0.000462
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160057
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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



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

Group delay (usec)(sbd)	-3.01686052346E+03	Apriori delay (usec)	-3.01686485099E+03	Resid mbdelay (usec)	4.32753E-03	+/-	1.8E-05
Sband delay (usec)	-3.01686047524E+03	Apriori clock (usec)	-2.1536089E+01	Resid sbdelay (usec)	4.37575E-03	+/-	1.4E-04
Phase delay (usec)	-3.01686485007E+03	Apriori clockrate (us/s)	-2.4300001E-07	Resid phdelay (usec)	9.18018E-07	+/-	6.0E-08
Delay rate (us/s)	4.07940189886E-02	Apriori rate (us/s)	4.07940136291E-02	Resid rate (us/s)	5.35953E-09	+/-	5.8E-10
Total phase (deg)	-66.6	Apriori accel (us/s/s)	1.43084651544E-05	Resid phase (deg)	28.5	+/-	1.9

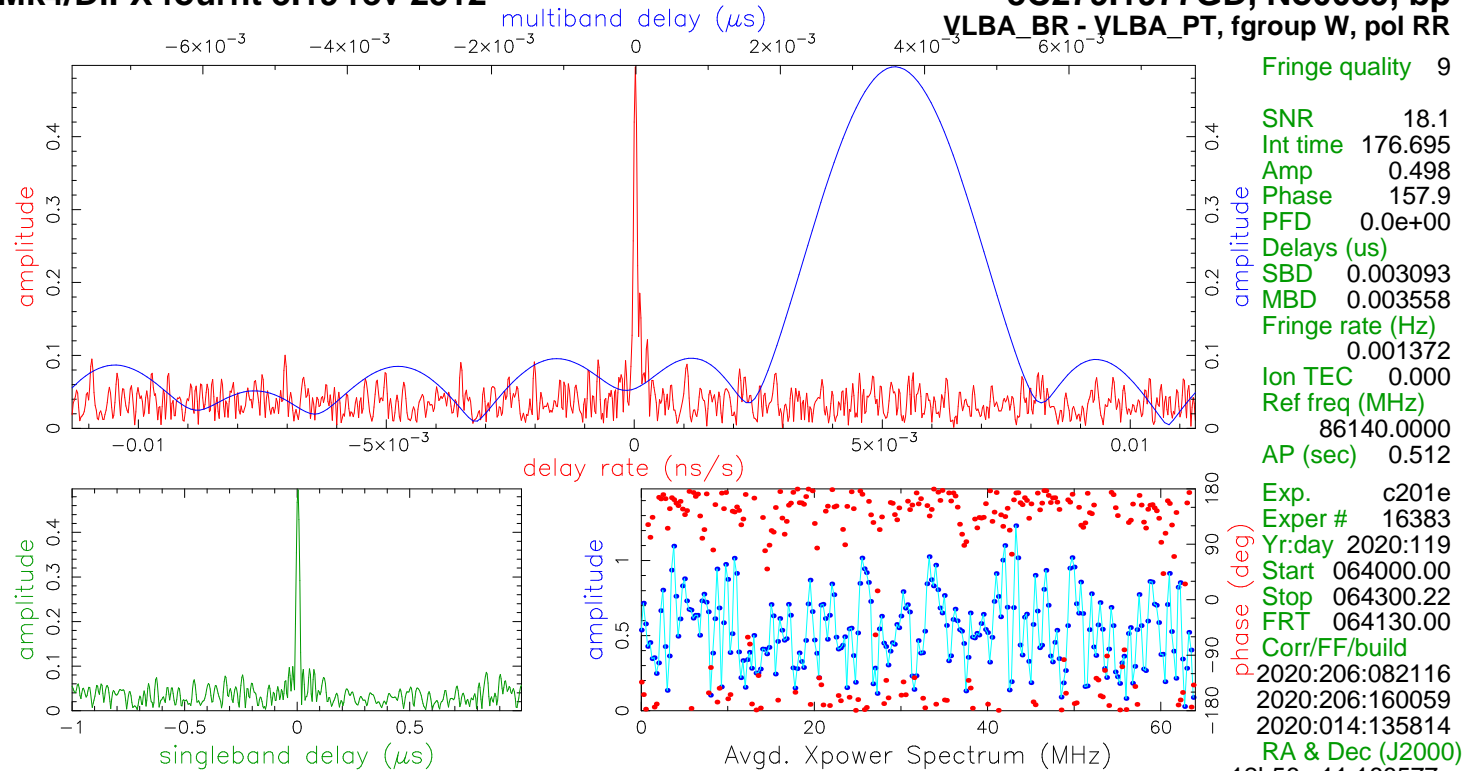
ph/seg (deg)	21.8	RMS	21.8	Theor.	4.4	Amplitude	1.712 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	16.5		7.6	Search (1024X32)	1.688	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	15.4		2.6	Inc. seg. avg.	1.841	Inc. frq. avg.	1.753	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	9.5		4.6	Inc. frq. avg.	1.753			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
								Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 183.3 el 35.9 pa 2.2 o: az 186.0 el 46.7 pa 5.1 u,v (fr/asec) -226.975 1114.677 simultaneous interpolator

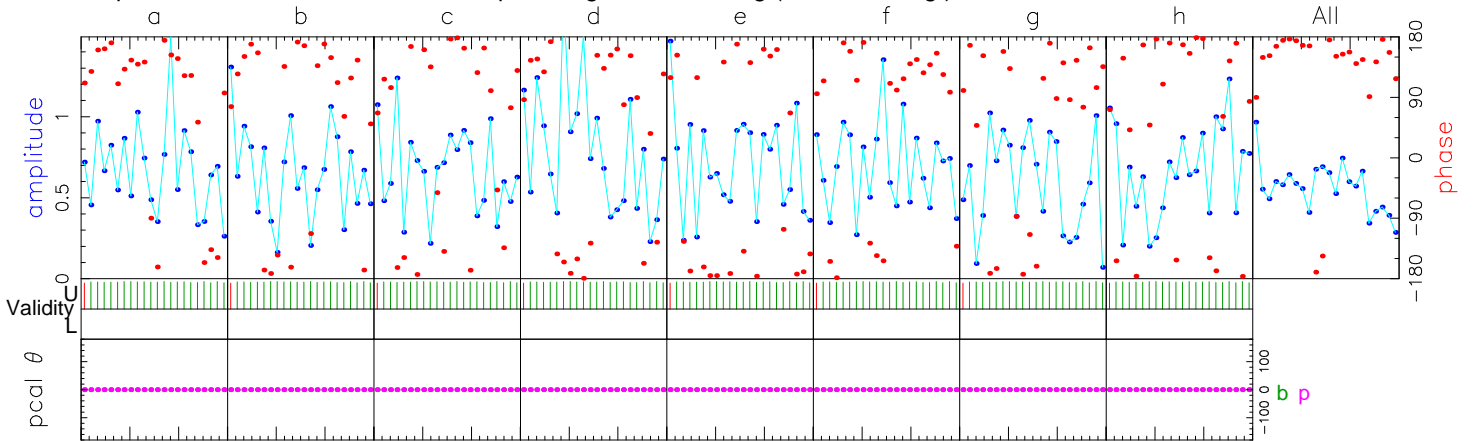
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bo..1977GD Output file: /Exps/c201e/v1/1234/No0089/bo.W.7.1977GD

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bp
VLBA_BR - VLBA_PT, fgroup W, pol RR



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

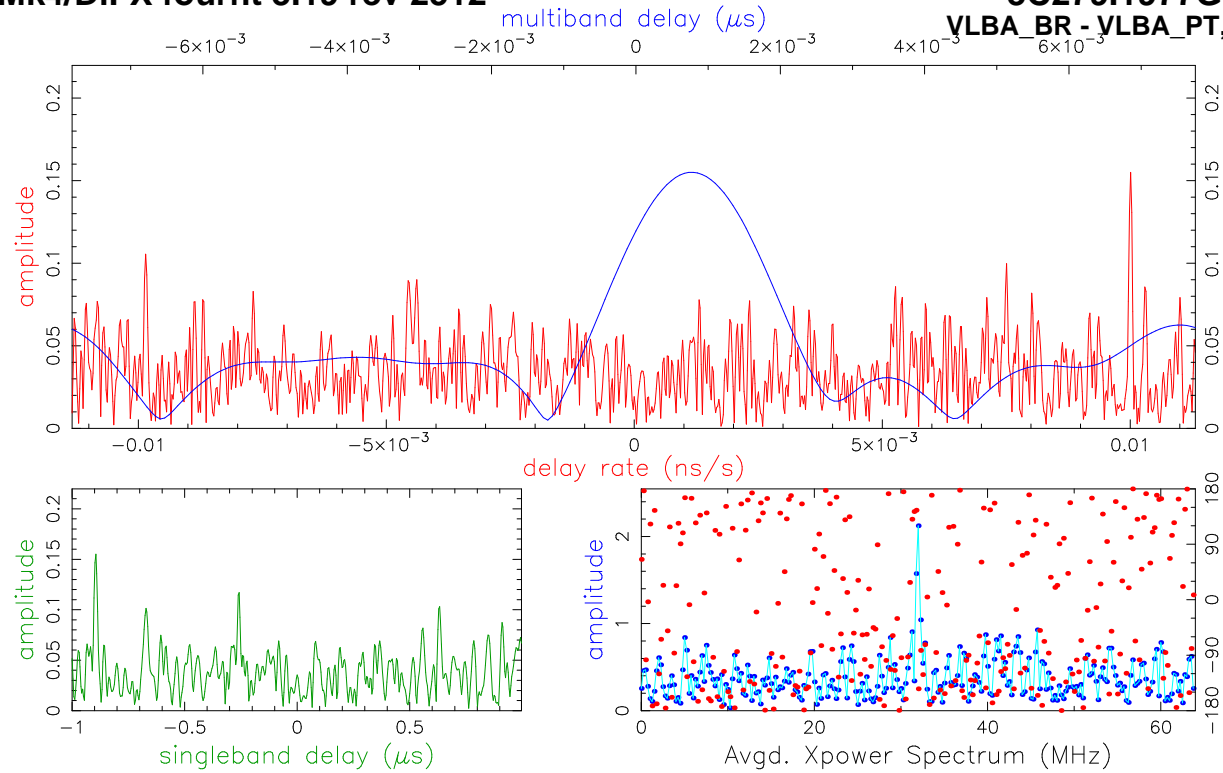


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.22116186422E+03								Resid mbdelay (usec)	3.55836E-03 +/- 6.0E-05
Sband delay (usec)	-3.22116232958E+03								Resid sbdelay (usec)	3.09300E-03 +/- 4.8E-04
Phase delay (usec)	-3.22116541749E+03								Resid phdelay (usec)	5.09318E-06 +/- 2.0E-07
Delay rate (us/s)	2.67304776271E-01								Resid rate (us/s)	1.59298E-08 +/- 2.0E-09
Total phase (deg)		-22.4							Resid phase (deg)	157.9 +/- 6.3
	RMS	Theor.	Amplitude	0.498 +/- 0.028					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	28.0	14.9	Search (1024X32)	0.485					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	32.0	25.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	8.0	9.0	Inc. seg. avg.	0.545					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	13.7	15.6	Inc. frq. avg.	0.494					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 183.3 el 35.9 pa 2.2									nlags: 256	t_cohere infinite
p: az 201.3 el 47.6 pa 18.0										
u,v (fr/asec) -1530.631 1474.115										

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bp..1977GD Output file: /Exps/c201e/v1/1234/No0089/bp.W.19.1977GD simultaneous interpolator

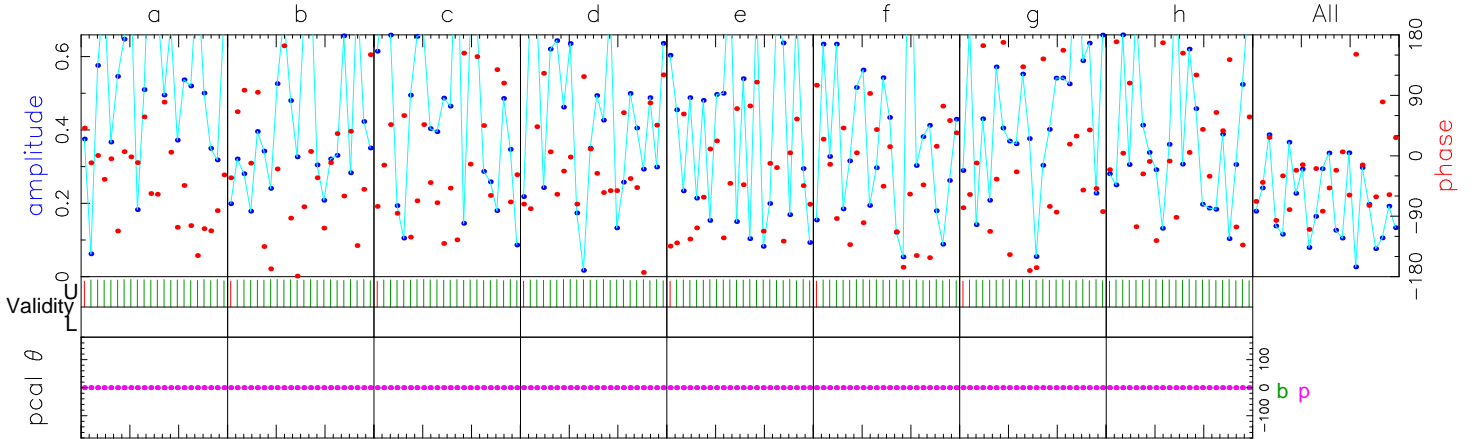
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1977GD, No0089, bp
VLBA_BR - VLBA_PT, fgroup W, pol RL



Fringe quality 0
SNR 5.7
Int time 176.695
Amp 0.220
Phase -39.2
PFD 8.5e-01
Delays (us)
SBD -0.895343
MBD 0.000731
Fringe rate (Hz)
0.863792
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 064000.00
Stop 064300.22
FRT 064130.00
Corr/FF/build
2020:206:082116
2020:206:160105
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-39.7	-56.8	-53.1	-16.1	-51.5	-32.6	-59.4	-22.3	Phase	-39.2
	0.4	0.1	0.2	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	28.1	136.9	108.2	149.2	186.8	224.3	209.4	49.0	Sbd box	27.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
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	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)	-3.22205531693E+03		Apriori delay (usec)		-3.22116542258E+03		Resid mbdelay (usec)		7.30648E-04	+/- 1.9E-04
Sband delay (usec)	-3.22206076533E+03		Apriori clock (usec)		-1.8728003E+01		Resid sbdelay (usec)		-8.95343E-01	+/- 1.5E-03
Phase delay (usec)	-3.22116542384E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-1.26442E-06	+/- 6.5E-07
Delay rate (us/s)	2.67314788115E-01		Apriori rate (us/s)		2.67304760341E-01		Resid rate (us/s)		1.00278E-05	+/- 6.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.49300109111E-05		Resid phase (deg)		-39.2	+/- 20.3

ph/seg (deg) 57.0 47.5 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.0 82.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 17.9 28.6 Inc. seg. avg. 0.211 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 44.8 50.0 Inc. frq. avg. 0.201 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 183.3 el 35.9 pa 2.2 p: az 201.3 el 47.6 pa 18.0 u,v (fr/asec) -1530.631 1474.115 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0089/bp..1977GD Output file: /Exps/c201e/v1/1234/No0089/bp.W.55.1977GD

