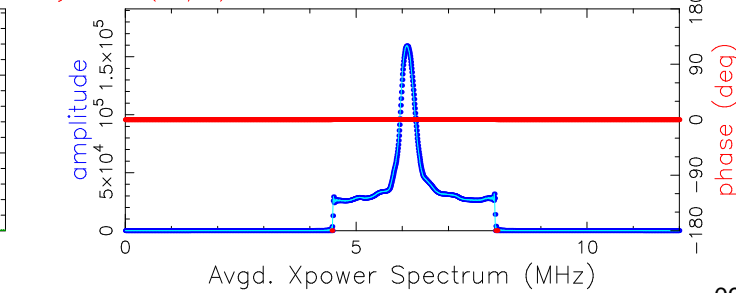
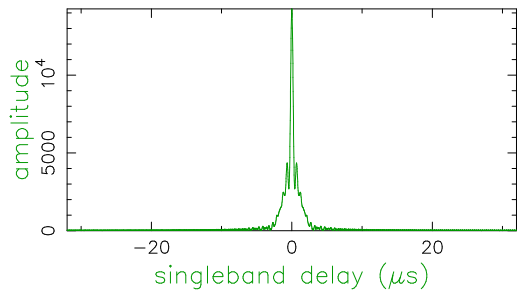


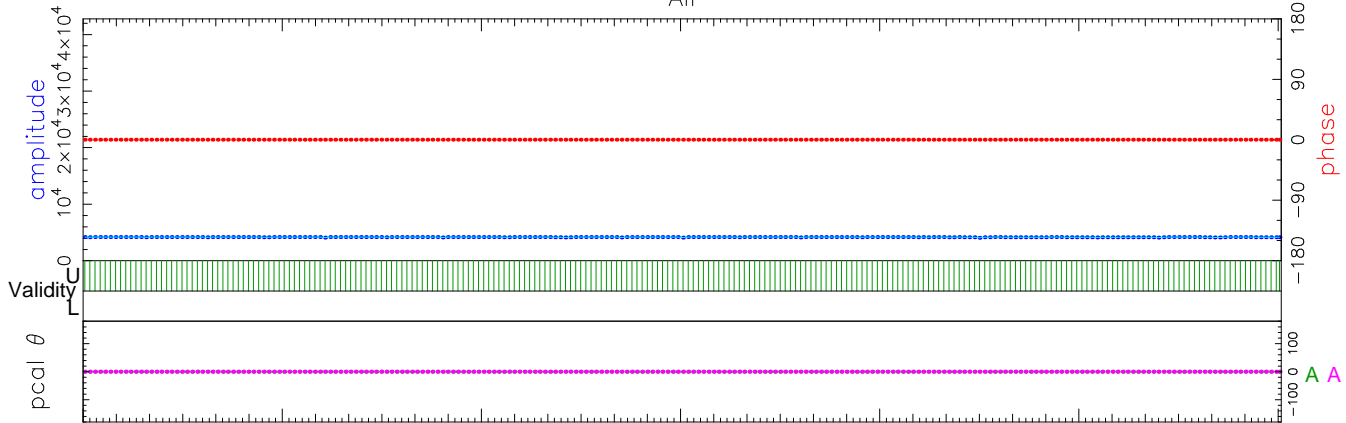
Fringe quality 5

SNR 113271.2
Int time 359.921
Amp 14261.401
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051849
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec
All



86227.00
0.2
4178.1
1537.0
U/L 703/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UX
A W03UX

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.38011295766E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.21718E-06	+/-	4.1E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.1E-07
Phase delay (usec)	7.79194308604E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.79194E-09	+/-	3.3E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.6E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

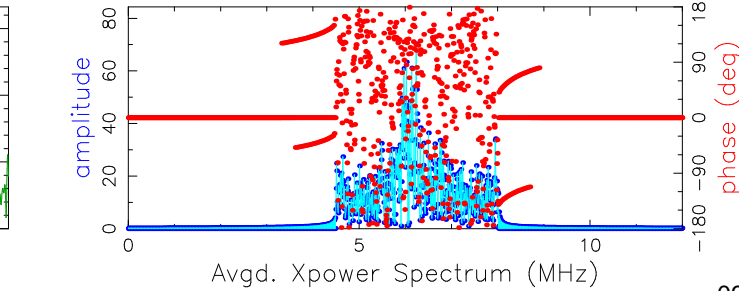
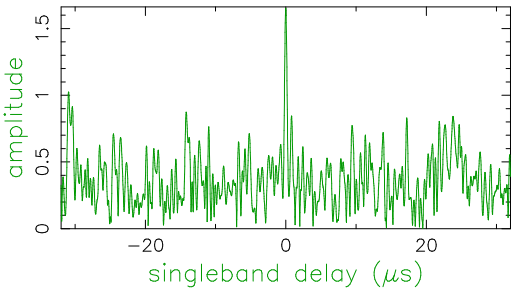
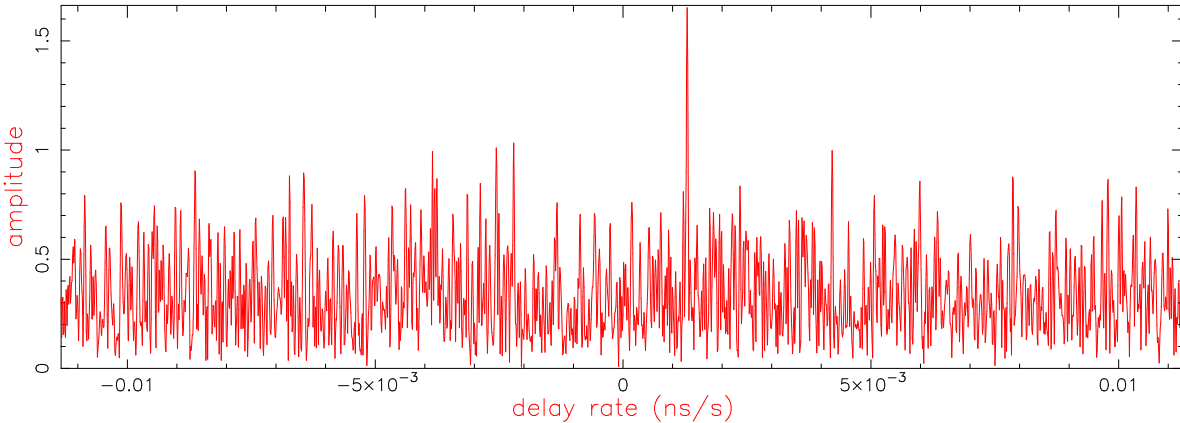
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	14261.400 +/- 0.126	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	14261.400	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	4178.145	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	14261.400	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

nlags: 1536 t_cohere infinite

A: az 30.1 el 51.0 pa -151.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

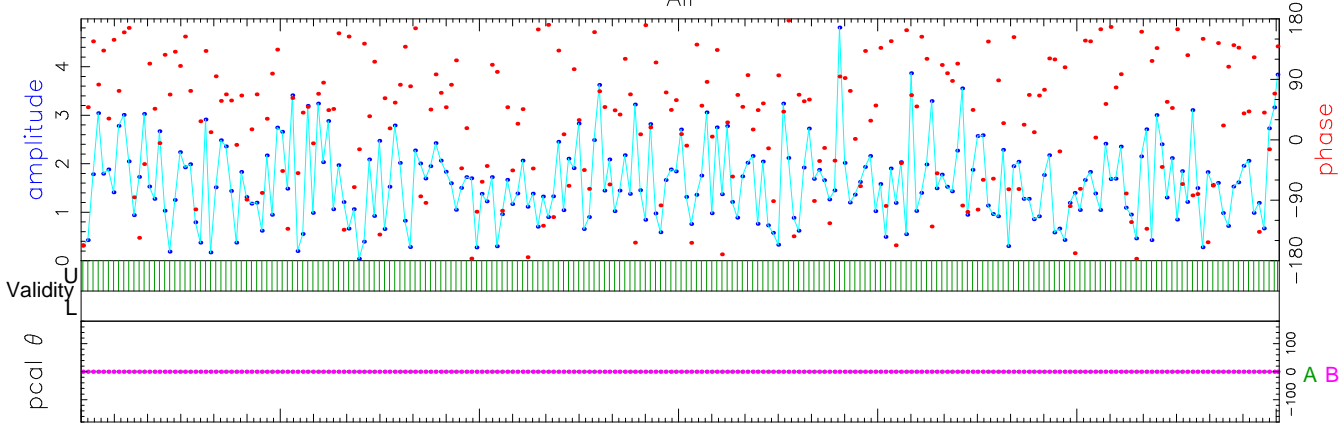
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0004/AA..1T5GQ9 Output file: /Exps/c211d/v1/LINES1/1234/No0004/AA.W.1.1T5GQ9

Fringe quality 7



SNR 13.1
Int time 359.913
Amp 1.663
Phase 35.2
PFD 5.4e-32
Delays (us)
SBD -0.010248
MBD 0.000005
Fringe rate (Hz)
0.111300
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051849
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec
All



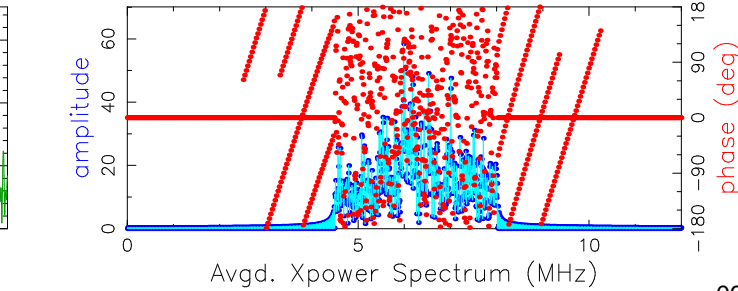
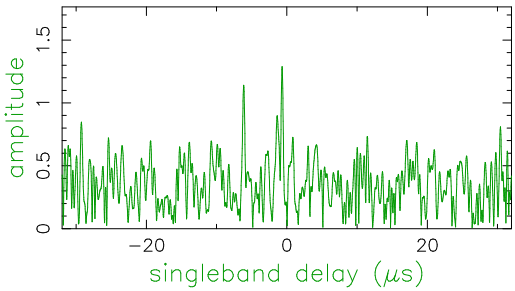
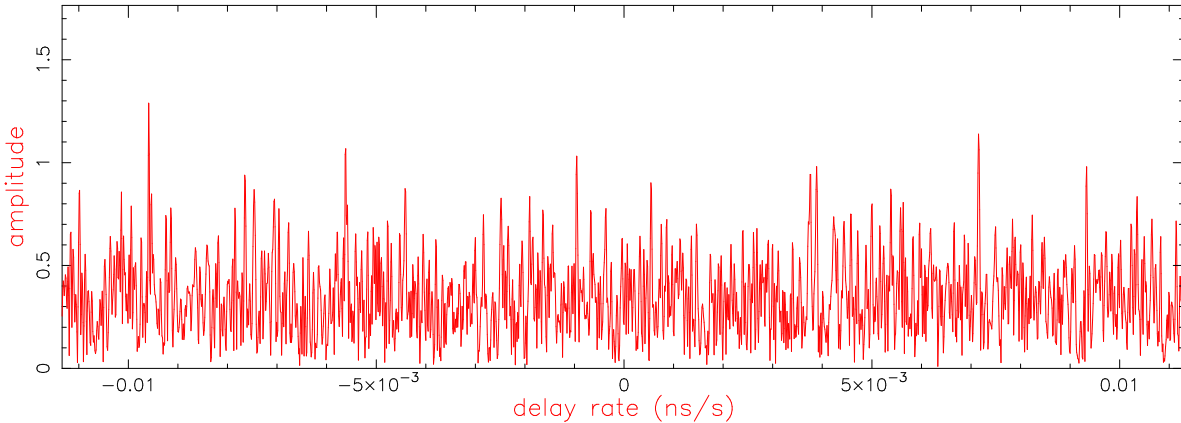
86227.00
74.1
0.5
1536.5
U/L 703/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.11692340944E+03	Apriori delay (usec)	4.11693365664E+03	Resid mbdelay (usec)	4.81288E-06	+/-	3.5E-03
Sband delay (usec)	4.11692340864E+03	Apriori clock (usec)	-2.0855244E+03	Resid sbdelay (usec)	-1.02480E-02	+/-	3.5E-03
Phase delay (usec)	4.11693365902E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.38844E-06	+/-	2.8E-07
Delay rate (us/s)	1.23945607121E+00	Apriori rate (us/s)	1.23945477912E+00	Resid rate (us/s)	1.29209E-06	+/-	1.4E-09
Total phase (deg)	100.9	Apriori accel (us/s/s)	-5.87057368288E-05	Resid phase (deg)	35.2	+/-	8.7

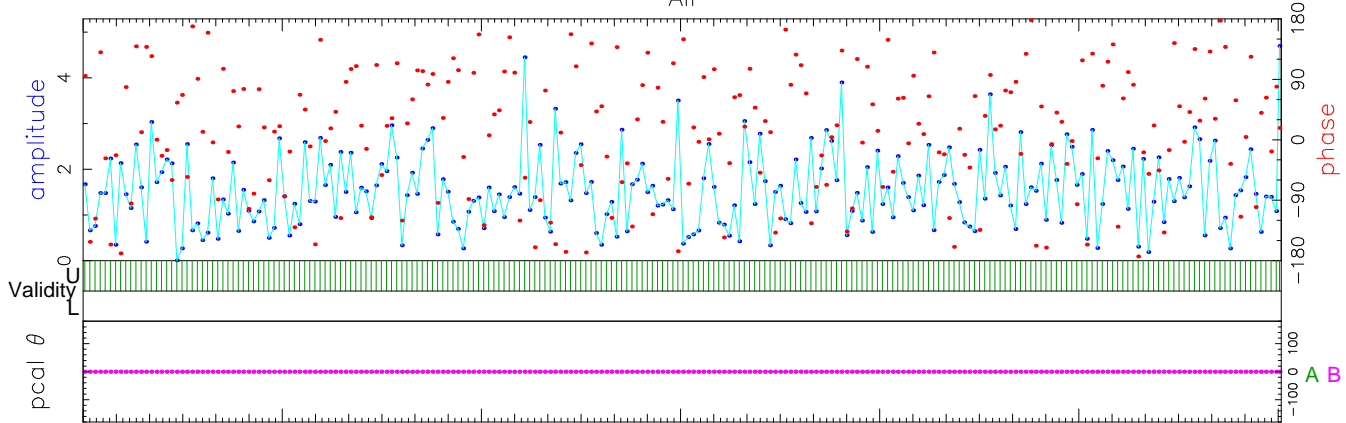
ph/seg (deg)	RMS 89.2	Theor. 66.9	Amplitude 1.663 +/- 0.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	49.9	116.7	Search (2048X8) 1.616	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	4.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	7.6	Inc. seg. avg. 0.969	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.656	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536	t_cohere infinite

Fringe quality 7



SNR 10.2
Int time 359.913
Amp 1.764
Phase 286.2
PFD 2.5e-17
Delays (us)
SBD -0.674247
MBD -0.000005
Fringe rate (Hz)
-0.824906
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051850
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec
All



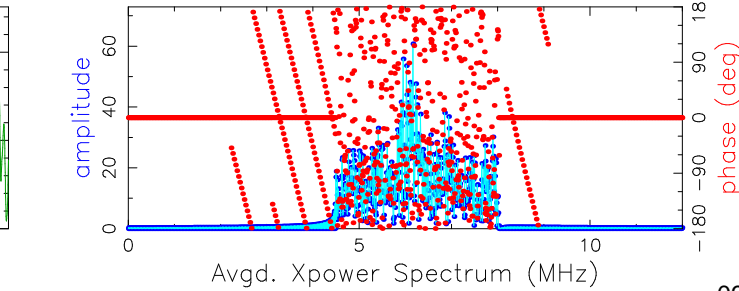
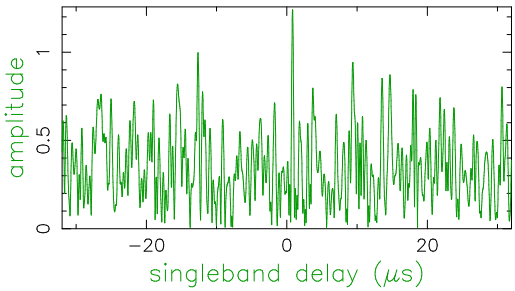
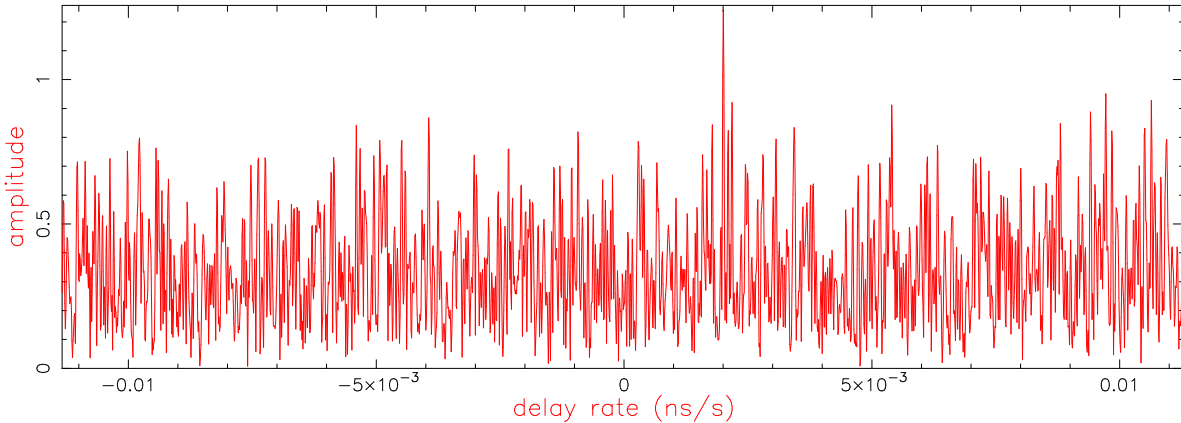
86227.00
48.9
0.5
1504.6
U/L 703/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.11625940837E+03	Apriori delay (usec)	4.11693365664E+03	Resid mbdelay (usec)	-4.69598E-06	+/- 4.5E-03
Sband delay (usec)	4.11625940997E+03	Apriori clock (usec)	-2.0855244E+03	Resid sbdelay (usec)	-6.74247E-01	+/- 4.5E-03
Phase delay (usec)	4.11693365821E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.57574E-06	+/- 3.6E-07
Delay rate (us/s)	1.23944520278E+00	Apriori rate (us/s)	1.23945477912E+00	Resid rate (us/s)	-9.57634E-06	+/- 1.7E-09
Total phase (deg)	351.9	Apriori accel (us/s/s)	-5.87057368288E-05	Resid phase (deg)	286.2	+/- 11.2

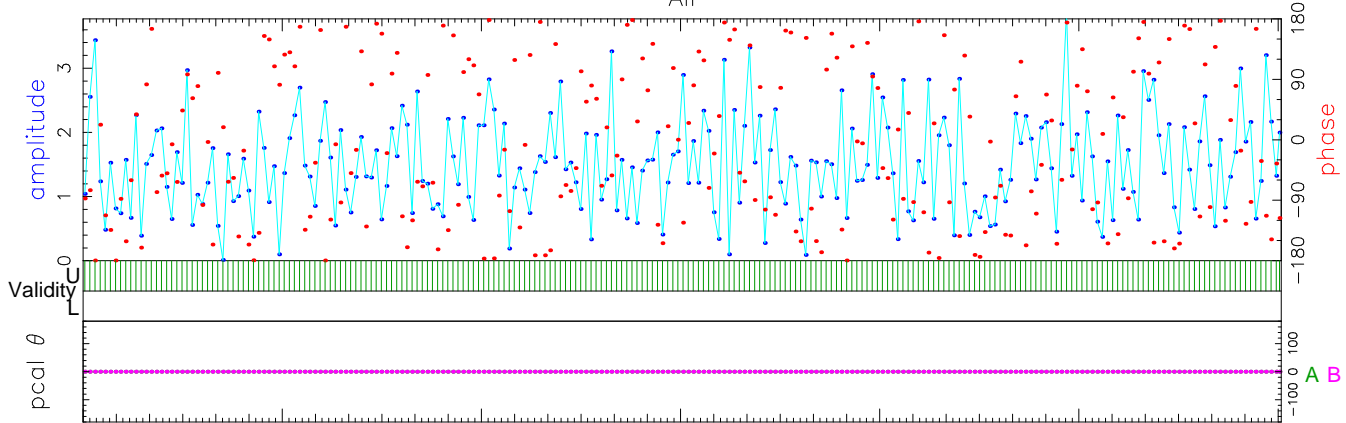
ph/seg (deg)	RMS 89.9	Theor. 85.7	Amplitude Search (2048X8)	1.764 +/- 0.172	1.269	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.2	149.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.6	Inc. seg. avg.	0.992	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	9.8	Inc. frq. avg.	1.754	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
A: az 30.1 el 51.0 pa -151.9		B: az 249.7 el 30.1 pa 37.2		u,v (fr/asec) -7308.428 -10991.382		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 9.9
Int time 359.913
Amp 1.257
Phase -207.5
PFD 1.3e-15
Delays (us)
SBD 0.817484
MBD 0.000005
Fringe rate (Hz)
0.172846
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051850
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec
All



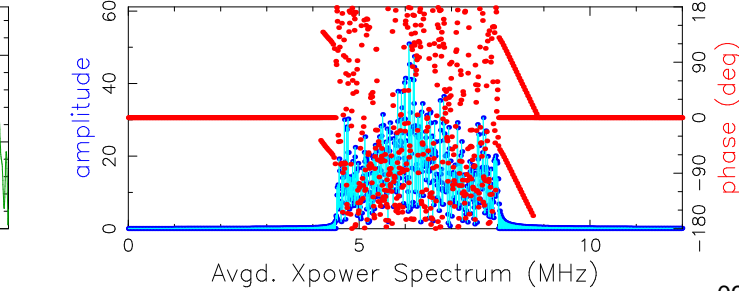
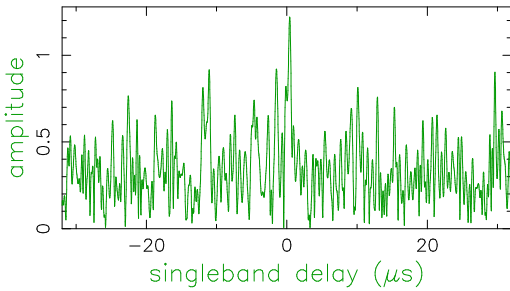
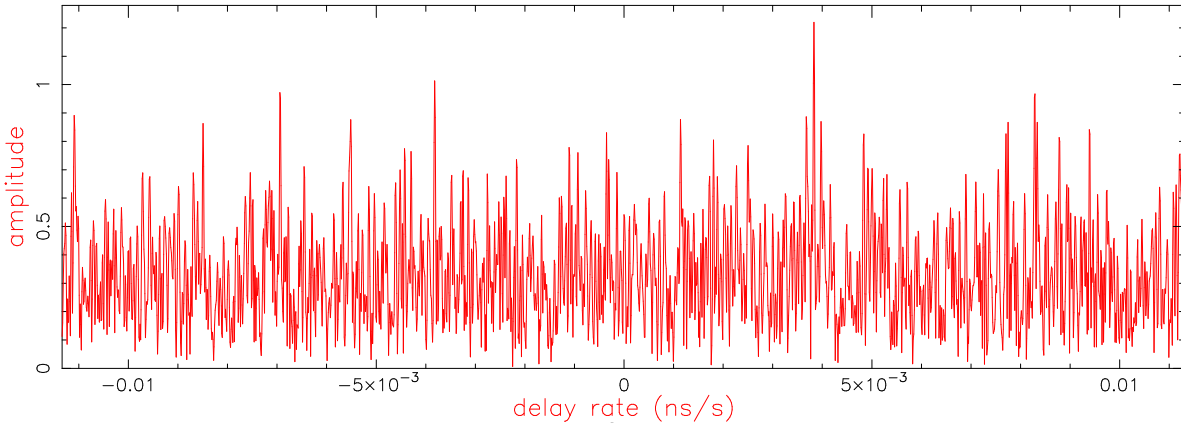
86227.00
-163.9
0.4
1576.2
U/L 703/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.11775114337E+03	Apriori delay (usec)	4.11693365664E+03	Resid mbdelay (usec)	4.96847E-06	+/-	4.7E-03
Sband delay (usec)	4.11775114064E+03	Apriori clock (usec)	-2.0855244E+03	Resid sbdelay (usec)	8.17484E-01	+/-	4.7E-03
Phase delay (usec)	4.11693365135E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-5.28616E-06	+/-	3.7E-07
Delay rate (us/s)	1.23945678569E+00	Apriori rate (us/s)	1.23945477912E+00	Resid rate (us/s)	2.00657E-06	+/-	1.8E-09
Total phase (deg)	-141.7	Apriori accel (us/s/s)	-5.87057368288E-05	Resid phase (deg)	-207.5	+/-	11.6

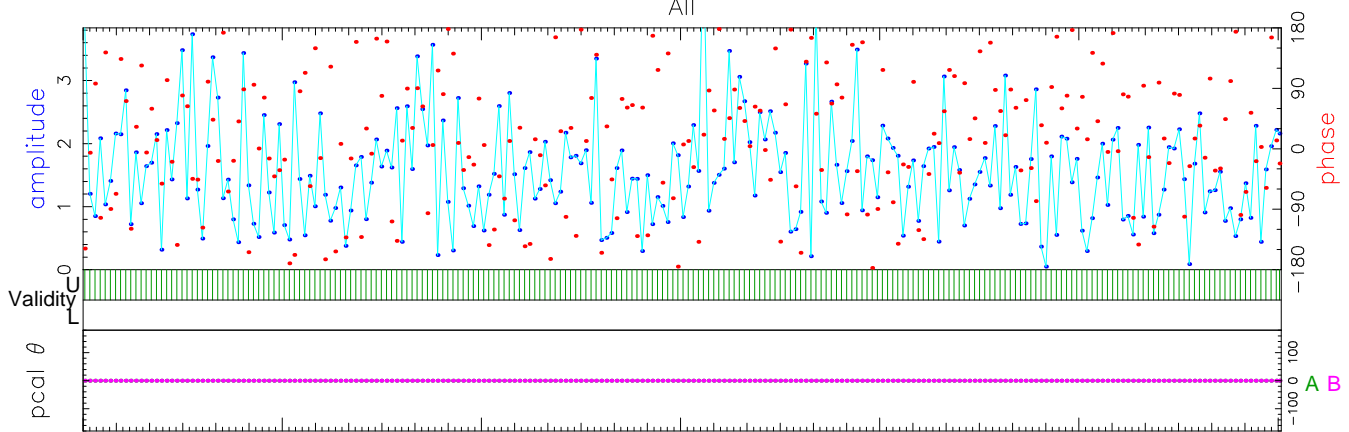
ph/seg (deg)	RMS 91.5	Theor. 89.1	Amplitude Search (2048X8)	1.257 +/- 0.128	1.214	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	63.8	155.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	5.8	Inc. seg. avg.	0.686	0.686	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.1	Inc. frq. avg.	1.250	1.250	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

Fringe quality 8



SNR 9.7
Int time 359.913
Amp 1.279
Phase -291.0
PFD 6.5e-15
Delays (us)
SBD 0.412753
MBD 0.000005
Fringe rate (Hz)
0.329808
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051851
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec

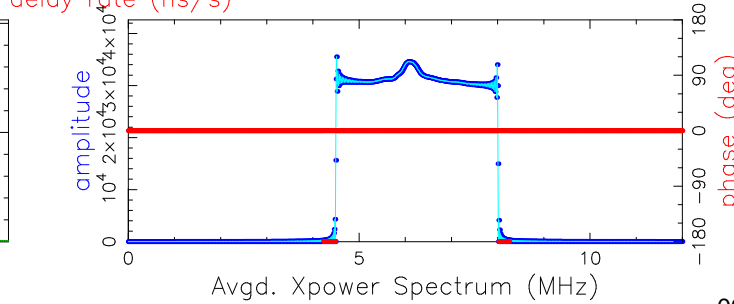
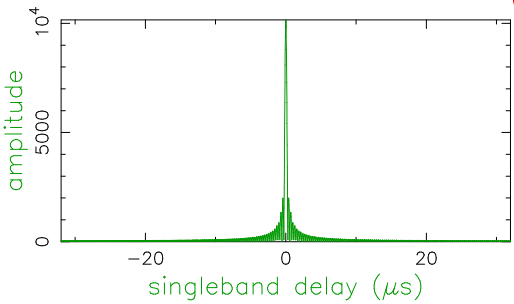
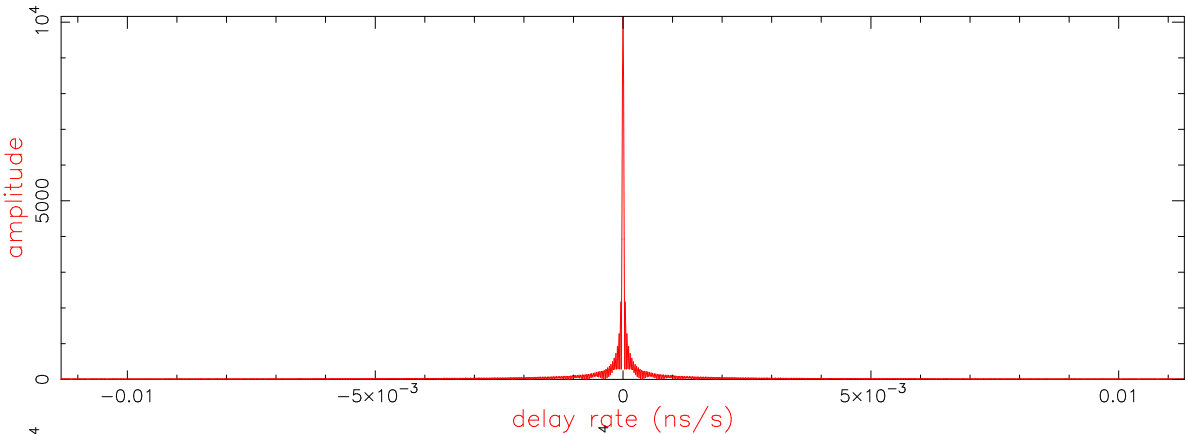


86227.00
36.3
0.4
1556.8
U/L 703/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.11734640986E+03	Apriori delay (usec)	4.11693365664E+03	Resid mbdelay (usec)	5.47810E-06	+/-	4.7E-03
Sband delay (usec)	4.11734640997E+03	Apriori clock (usec)	-2.0855244E+03	Resid sbdelay (usec)	4.12753E-01	+/-	4.7E-03
Phase delay (usec)	4.11693365781E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.16932E-06	+/-	3.8E-07
Delay rate (us/s)	1.23945860787E+00	Apriori rate (us/s)	1.23945477912E+00	Resid rate (us/s)	3.82875E-06	+/-	1.8E-09
Total phase (deg)	-225.2	Apriori accel (us/s/s)	-5.87057368288E-05	Resid phase (deg)	-291.0	+/-	11.8

ph/seg (deg) RMS Theor. Amplitude 1.279 +/- 0.132 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 74.9 158.2 Search (2048X8) 1.196 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 5.9 Inc. seg. avg. 0.729 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 10.3 Inc. frq. avg. 1.272 Sample rate(MISamp/s): 24 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite dr window (ns/s) -0.011 0.011
A: az 30.1 el 51.0 pa -151.9 B: az 249.7 el 30.1 pa 37.2 u,v (fr/asec) -7308.428 -10991.382 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0004/AB..1T5GQ9 Output file: /Exps/c211d/v1/LINES1/1234/No0004/AB.W.8.1T5GQ9 simultaneous interpolator

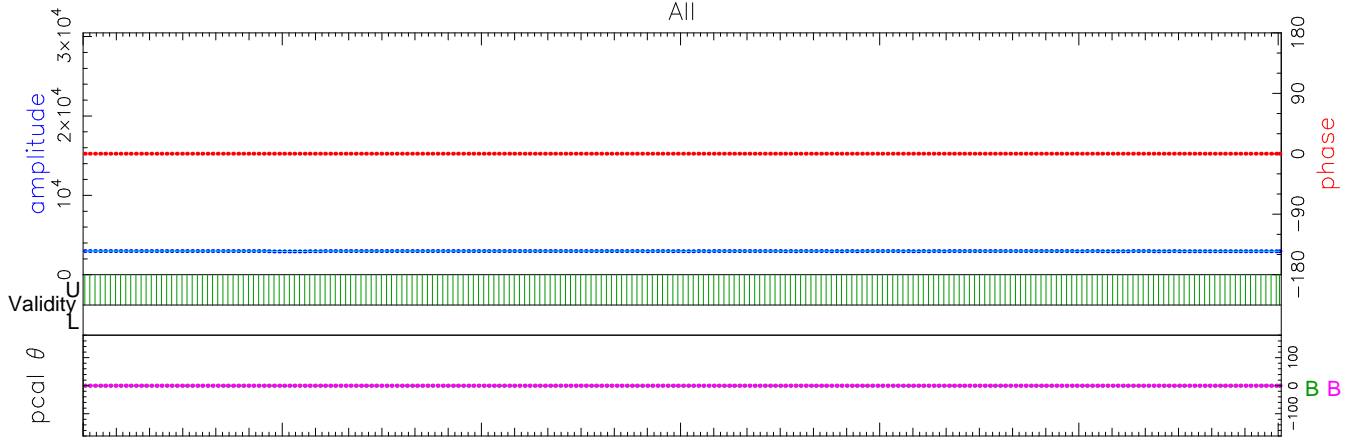


Fringe quality 5

SNR 80696.6
Int time 359.913
Amp 10160.222
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051849
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec



86227.00
0.2
2976.6
1537.0
U/L 703/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UL

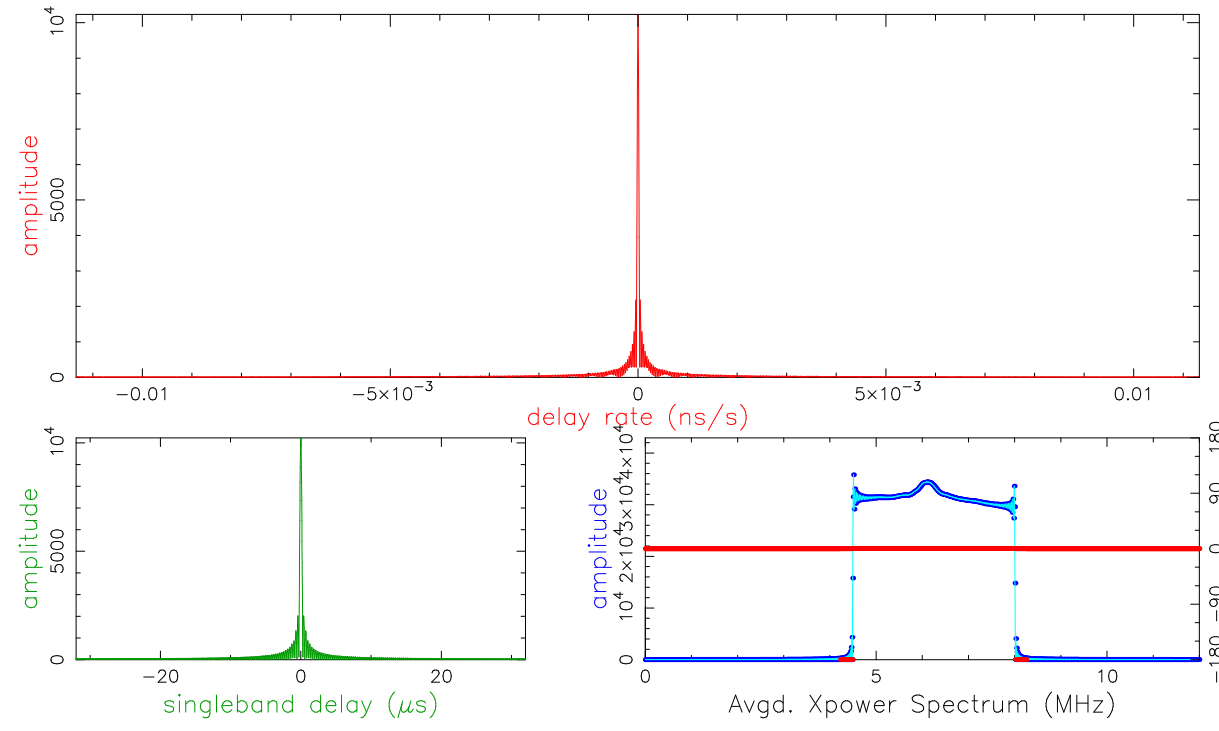
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.77808575040E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.81921E-06	+/- 5.7E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 5.7E-07
Phase delay (usec)	7.36227661605E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.36228E-09	+/- 4.6E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.2E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10160.222 +/- 0.126	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	10160.222	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2976.627	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10160.222	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

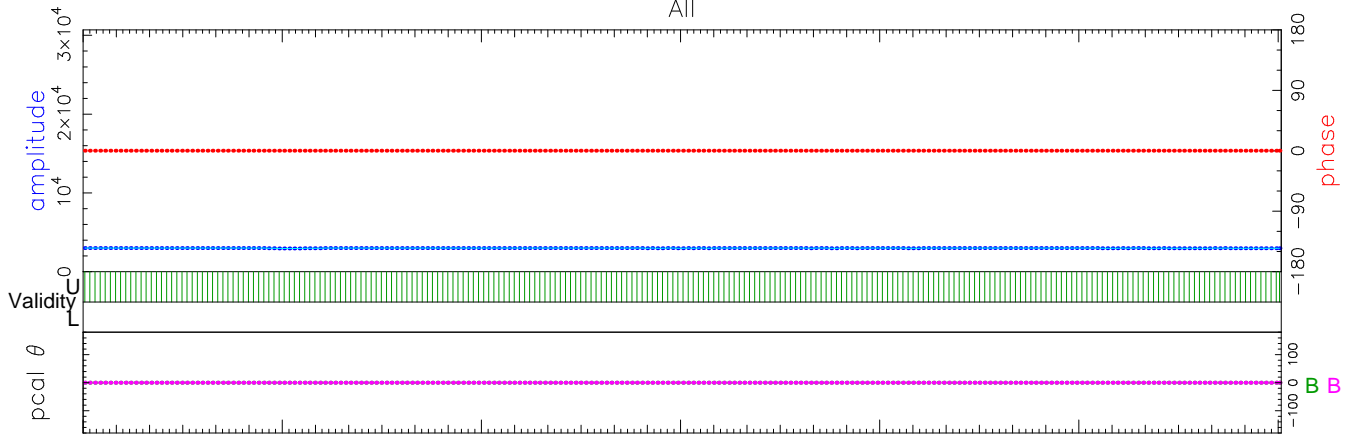
B: az 249.7 el 30.1 pa 37.2 B: az 249.7 el 30.1 pa 37.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0004/BB..1T5GQ9 Output file: /Exps/c211d/v1/LINES1/1234/No0004/BB.W.2.1T5GQ9



Fringe quality 5
SNR 81285.0
Int time 359.913
Amp 10234.312
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:116
Start 224500.00
Stop 225059.94
FRT 224800.00
Corr/FF/build
2021:228:030927
2021:228:051849
2021:057:122453
RA & Dec (J2000)
09h47m33.428799s
+11°25'42.691284"

Amp. and Phase vs. time for each freq., 235 segs, 3 APs / seg (1.54 sec / seg.), time ticks 2 sec



86227.00
0.2
2998.3
1537.0
U/L 703/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.75349948392E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.84380E-06	+/- 5.7E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 5.7E-07
Phase delay (usec)	7.38882087868E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.38882E-09	+/- 4.5E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.2E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10234.312 +/- 0.126	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	10234.312	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2998.333	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10234.312	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00