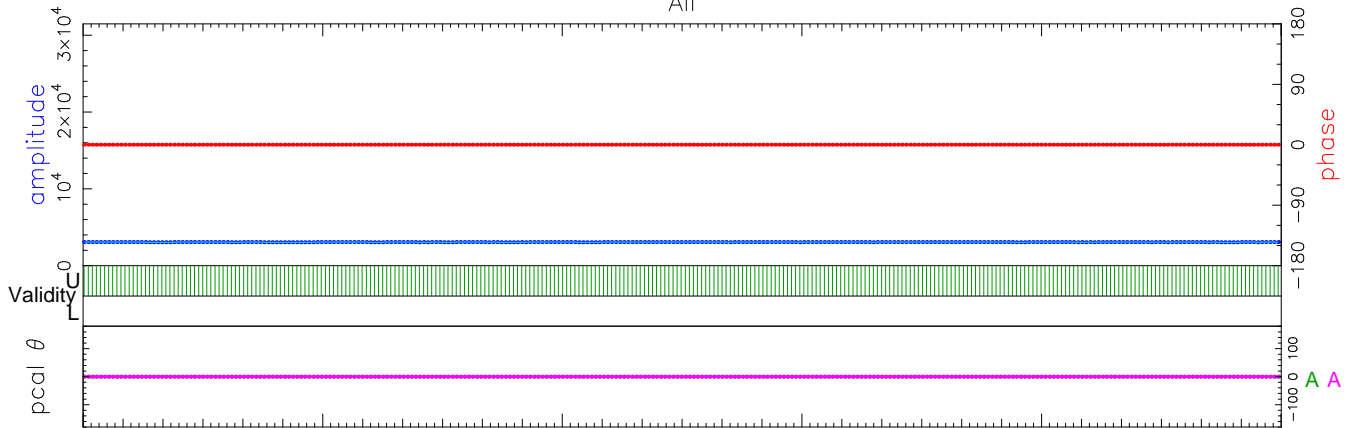


Fringe quality 5

SNR 76087.8
Int time 299.985
Amp 10493.306
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 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051912
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



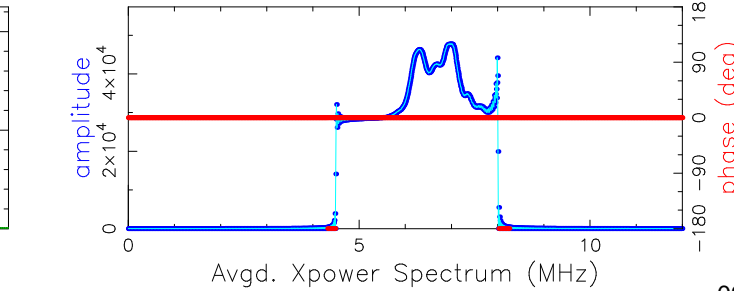
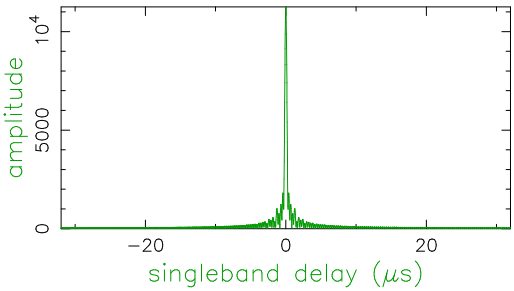
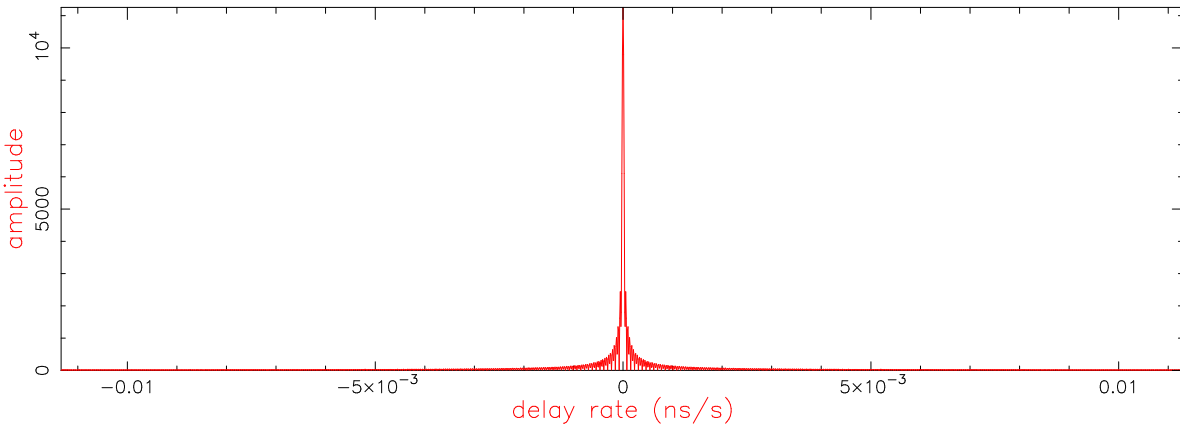
86227.00
0.2
3074.2
1537.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UX
A W03UX

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

Group delay (usec)(sbd)	4.75489115938E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.84240E-06	+/-	6.0E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.0E-07
Phase delay (usec)	7.38731837325E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.38732E-09	+/-	4.9E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

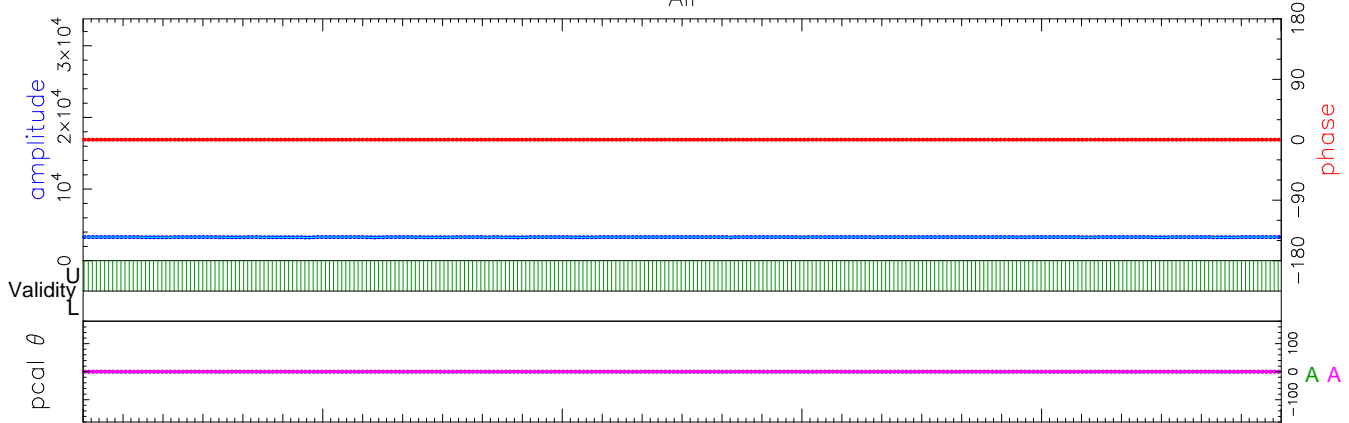
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10493.306 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10493.306	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3074.211	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	10493.307	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/AA..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/AA.W.1.1T5GR2



Fringe quality 5
SNR 81622.3
Int time 299.985
Amp 11256.567
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
3297.8
1537.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UY
A W03UY

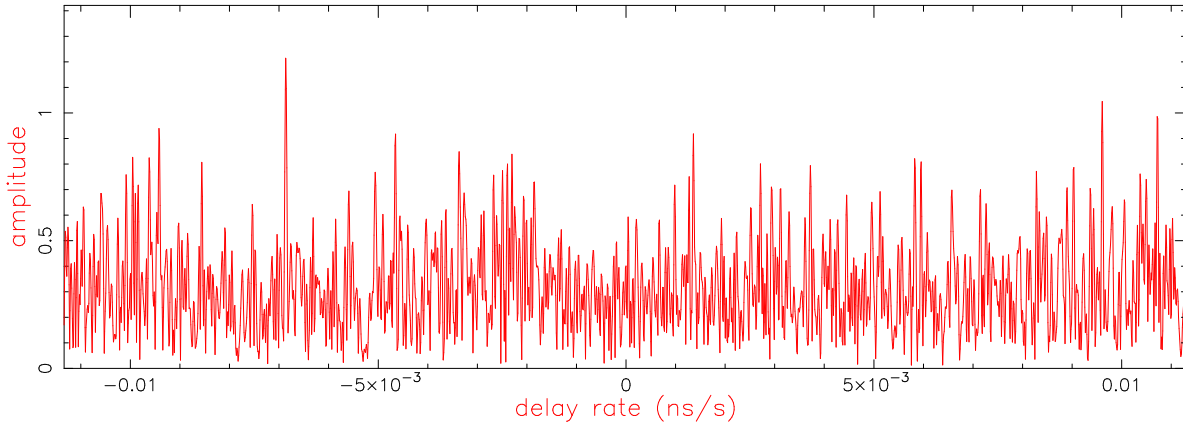
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.30033516184E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.29696E-06	+/- 5.6E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 5.6E-07
Phase delay (usec)	6.79843641099E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.79844E-09	+/- 4.5E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.6E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/- 0.0

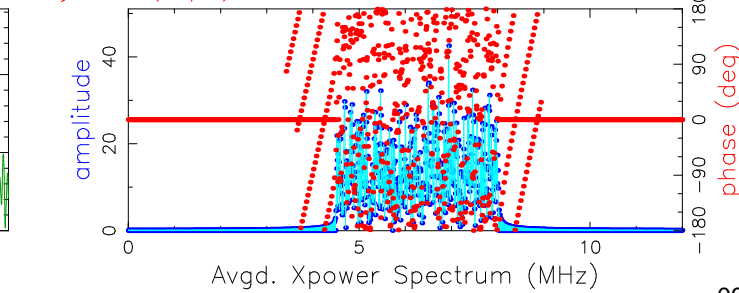
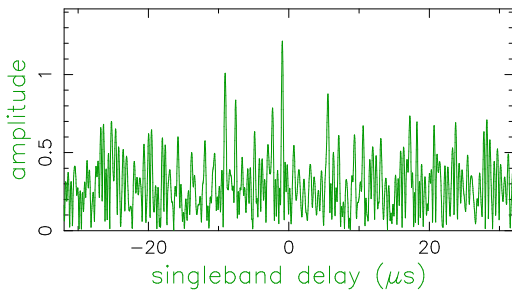
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	11256.567 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	11256.567	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3297.823	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	11256.567	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/AA..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/AA.W.18.1T5GR2

Fringe quality 8

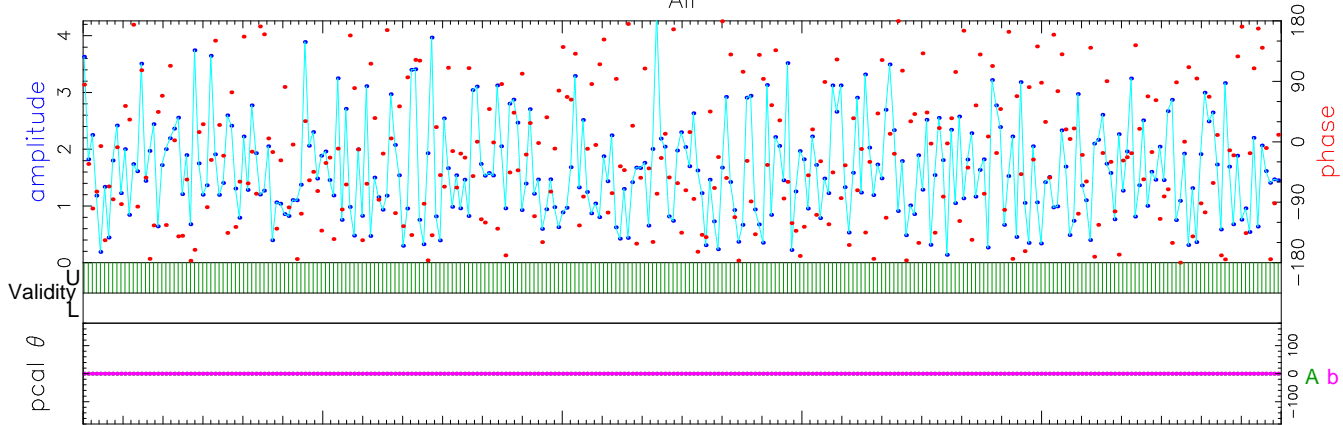


SNR 8.8
Int time 299.975
Amp 1.421
Phase 122.3
PFD 2.0e-11
Delays (us)
SBD -0.925304
MBD -0.000006
Fringe rate (Hz)
-0.591117
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-58.1
0.4
1492.6
U/L 586/0
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)	-9.73231385260E+03	Apriori delay (usec)	-9.73138854474E+03	Resid mbdelay (usec)	-6.04386E-06	+/-	5.2E-03
Sband delay (usec)	-9.73231384874E+03	Apriori clock (usec)	-2.1046118E+03	Resid sbdelay (usec)	-9.25304E-01	+/-	5.2E-03
Phase delay (usec)	-9.73138854661E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-1.87447E-06	+/-	4.2E-07
Delay rate (us/s)	-8.30349728026E-01	Apriori rate (us/s)	-8.30342865740E-01	Resid rate (us/s)	-6.86229E-06	+/-	2.4E-09
Total phase (deg)	34.5	Apriori accel (us/s/s)	-3.17109362123E-05	Resid phase (deg)	122.3	+/-	13.0

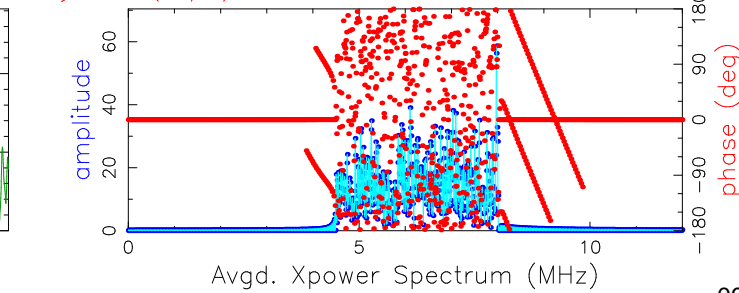
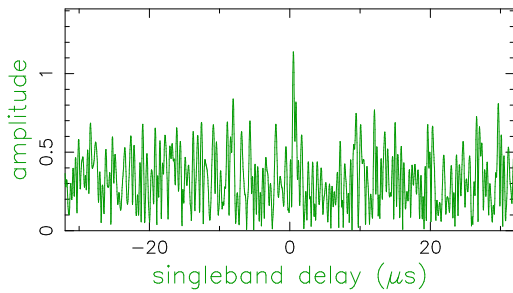
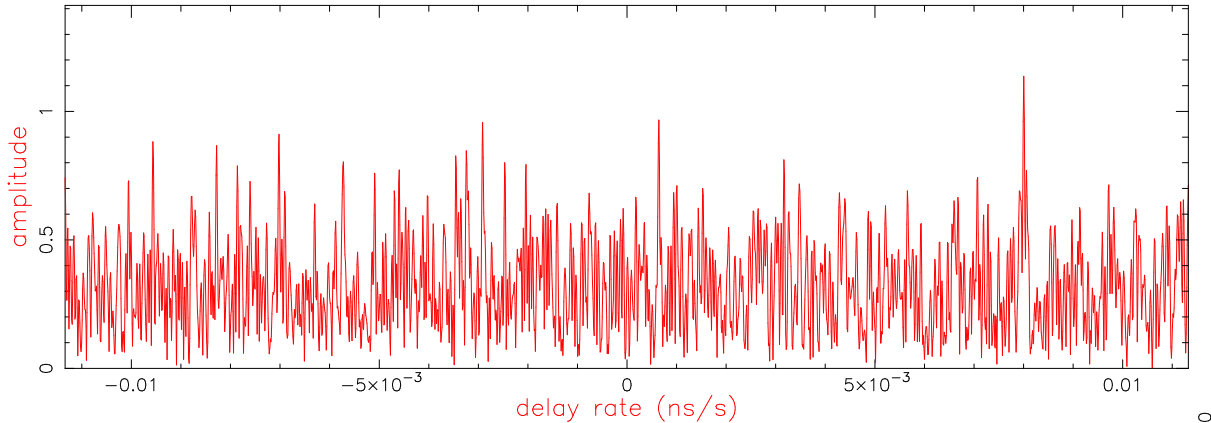
ph/seg (deg)	RMS 94.4	Theor. 111.2	Amplitude 1.421 +/- 0.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.5	194.1	Search (2048X8) 1.202	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.3	Inc. seg. avg. 0.666	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.410	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

A: az 344.9 el 30.6 pa 163.1 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 5745.739 -10018.418 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ab..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ab.W.12.1T5GR2

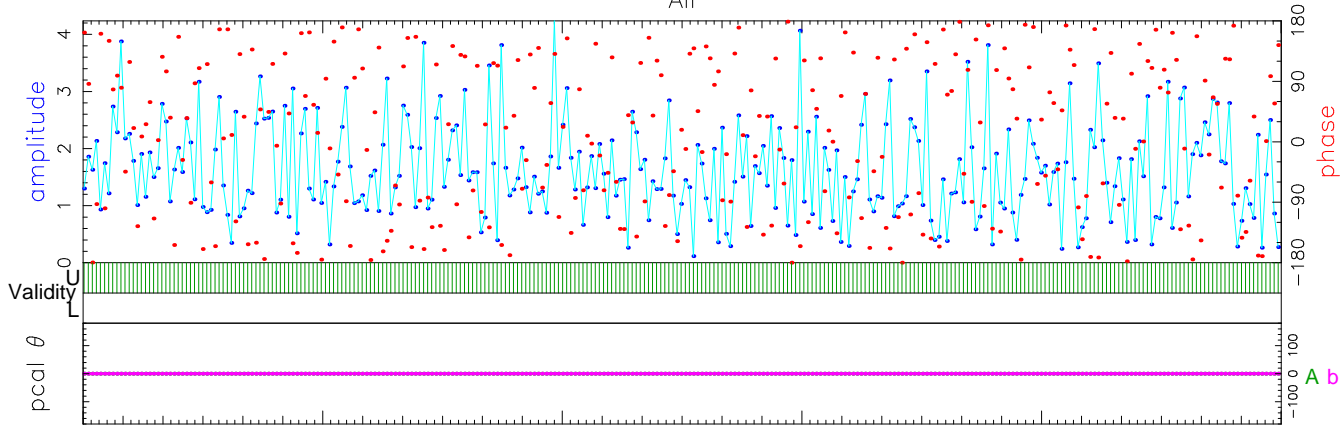
Fringe quality 8

SNR 8.3
Int time 299.975
Amp 1.413
Phase -315.8
PFD 2.2e-09
Delays (us)
SBD 0.509285
MBD 0.000007
Fringe rate (Hz)
0.689155
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051912
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
155.0
0.4
1561.4
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UL

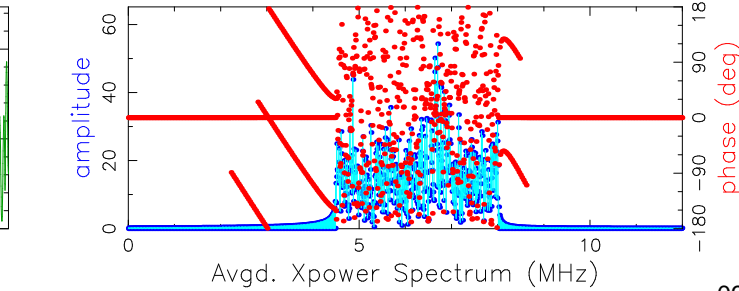
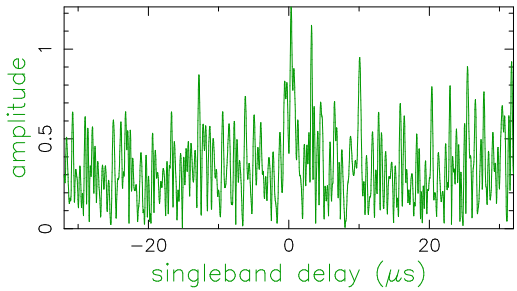
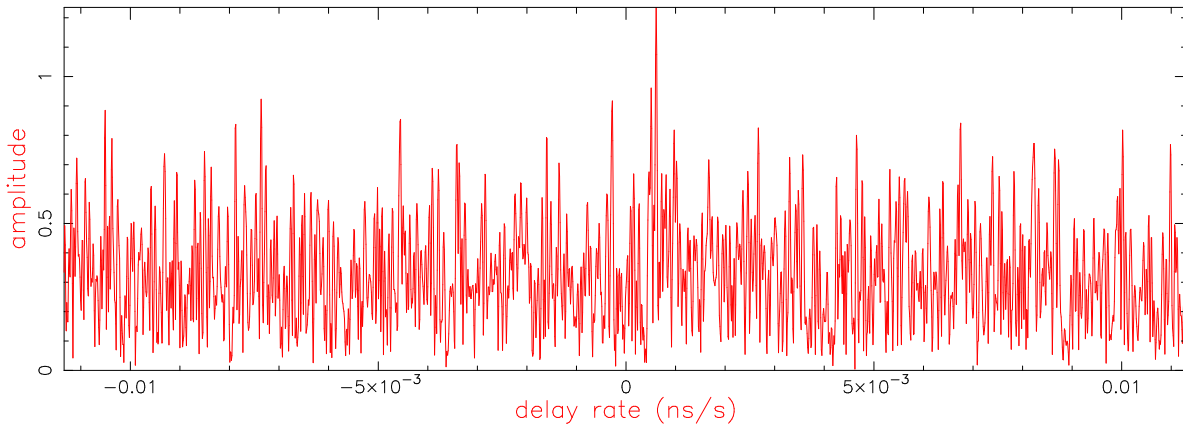
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.73087925386E+03	Apriori delay (usec)	-9.73138854474E+03	Resid mbdelay (usec)	7.24355E-06	+/-	5.6E-03
Sband delay (usec)	-9.73087925941E+03	Apriori clock (usec)	-2.1046118E+03	Resid sbdelay (usec)	5.09285E-01	+/-	5.6E-03
Phase delay (usec)	-9.73138853974E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	4.99855E-06	+/-	4.5E-07
Delay rate (us/s)	-8.30334865328E-01	Apriori rate (us/s)	-8.30342865740E-01	Resid rate (us/s)	8.00041E-06	+/-	2.6E-09
Total phase (deg)	-43.6	Apriori accel (us/s/s)	-3.17109362123E-05	Resid phase (deg)	-315.8	+/-	13.9

ph/seg (deg)	RMS 92.7	Theor. 118.6	Amplitude Search (2048X8)	1.413 +/- 0.171	1.112	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	85.4	207.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.643	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	12.1	Inc. frq. avg.	1.398	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

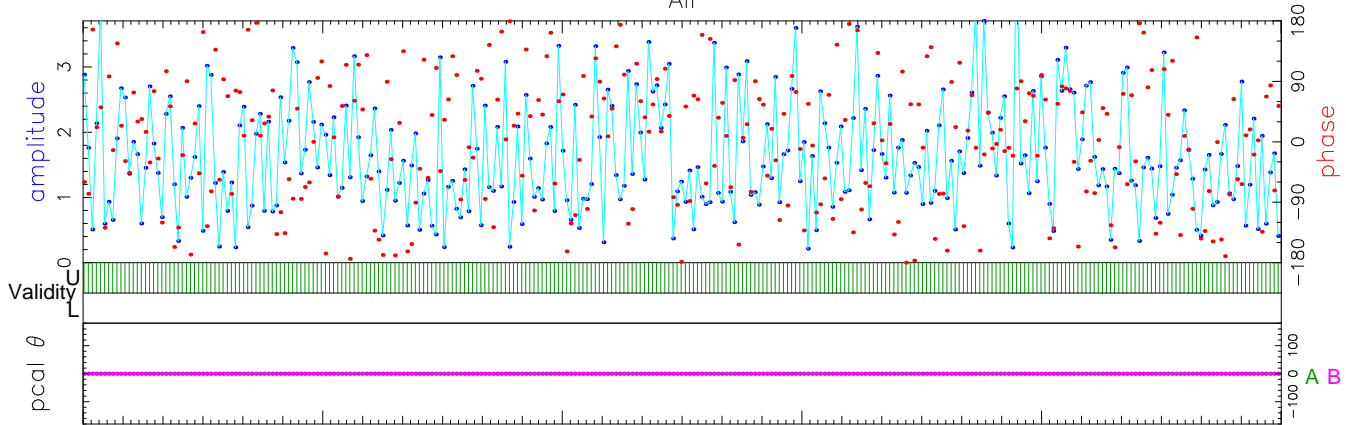
A: az 344.9 el 30.6 pa 163.1 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 5745.739 -10018.418 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ab..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ab.W.2.1T5GR2

Fringe quality 8



SNR 8.9
Int time 299.979
Amp 1.235
Phase -230.7
PFD 6.6e-12
Delays (us)
SBD 0.329999
MBD 0.000006
Fringe rate (Hz)
0.052626
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
24.6
0.4
1552.8
U/L 586/0
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 freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.84304967064E+02	Apriori delay (usec)	-2.84634962200E+02	Resid mbdelay (usec)	5.68926E-06	+/-	5.1E-03
Sband delay (usec)	-2.84304963534E+02	Apriori clock (usec)	-2.0855344E+03	Resid sbdelay (usec)	3.29999E-01	+/-	5.1E-03
Phase delay (usec)	-2.84634961407E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	7.92822E-07	+/-	4.1E-07
Delay rate (us/s)	4.82140875493E-01	Apriori rate (us/s)	4.82140264553E-01	Resid rate (us/s)	6.10940E-07	+/-	2.4E-09
Total phase (deg)	-102.5	Apriori accel (us/s/s)	-8.35826913323E-05	Resid phase (deg)	-230.7	+/-	12.8

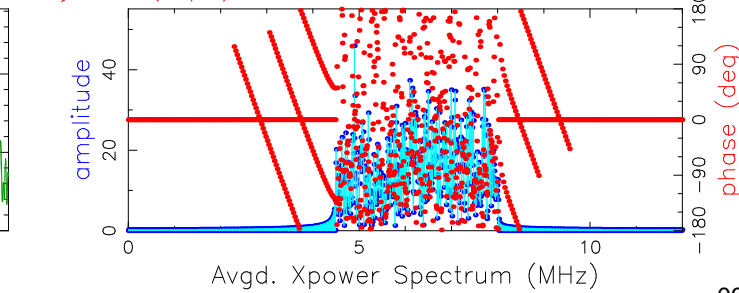
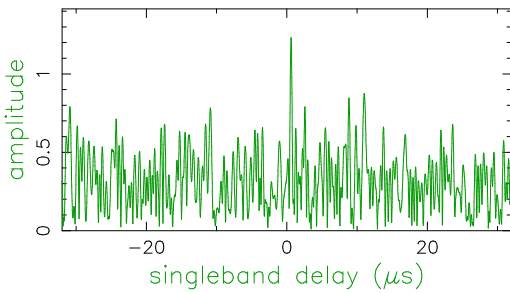
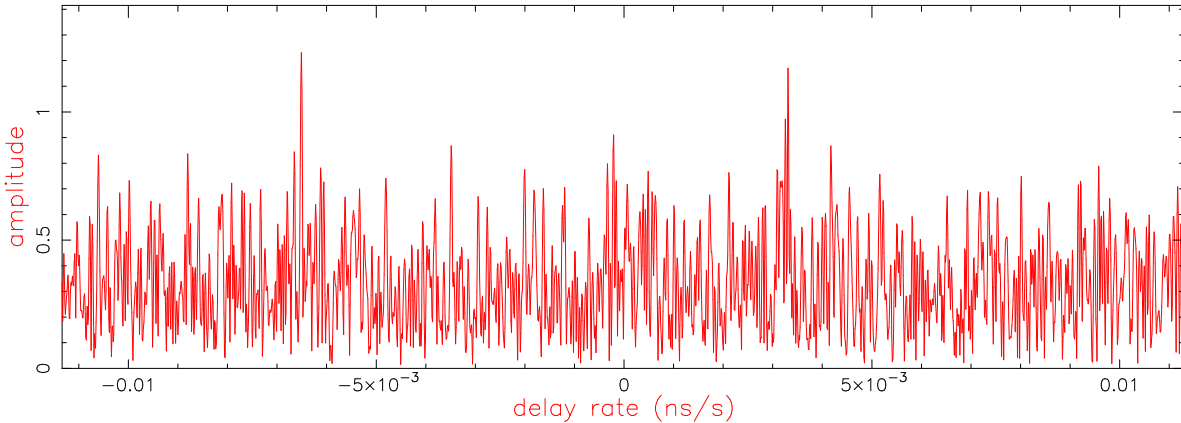
ph/seg (deg)	RMS 94.6	Theor. 109.6	Amplitude 1.235 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.3	191.3	Search (2048X8) 1.221	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. seg. avg. 0.578	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.227	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

A: az 344.9 el 30.6 pa 163.1 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -3415.674 -12965.835 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/AB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/AB.W.24.1T5GR2

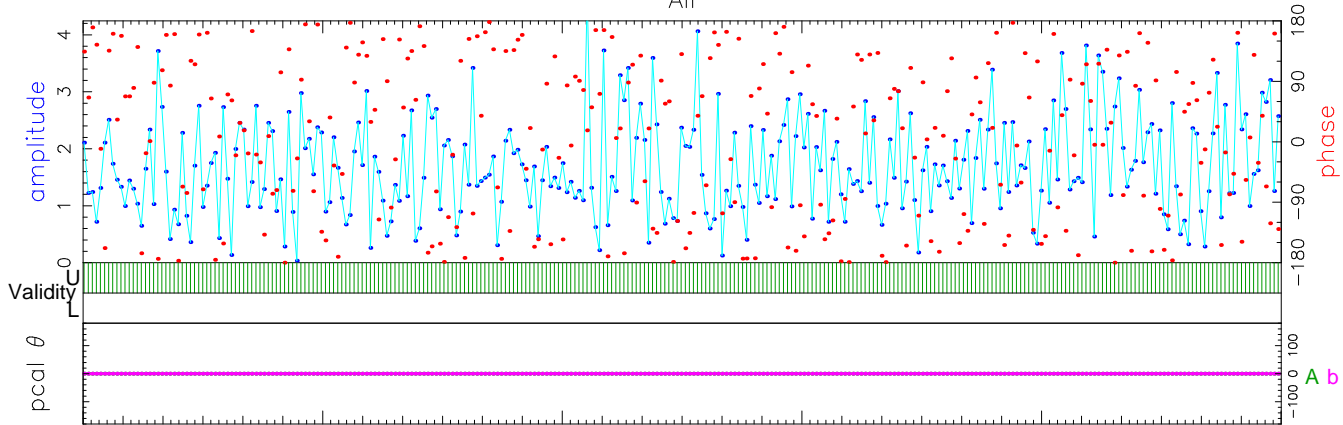
Fringe quality 8

SNR 8.9
Int time 299.975
Amp 1.415
Phase -79.9
PFD 7.8e-12
Delays (us)
SBD 0.604824
MBD -0.000007
Fringe rate (Hz)
-0.560380
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
143.4
0.4
1566.0
U/L 586/0
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

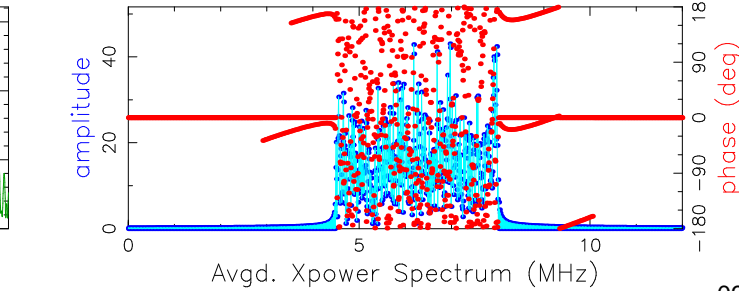
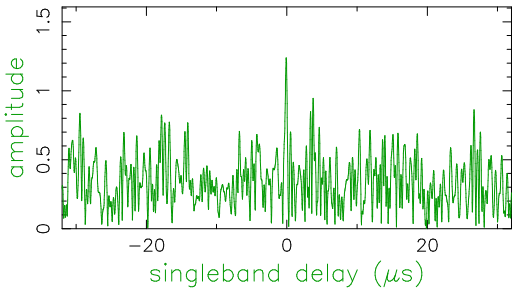
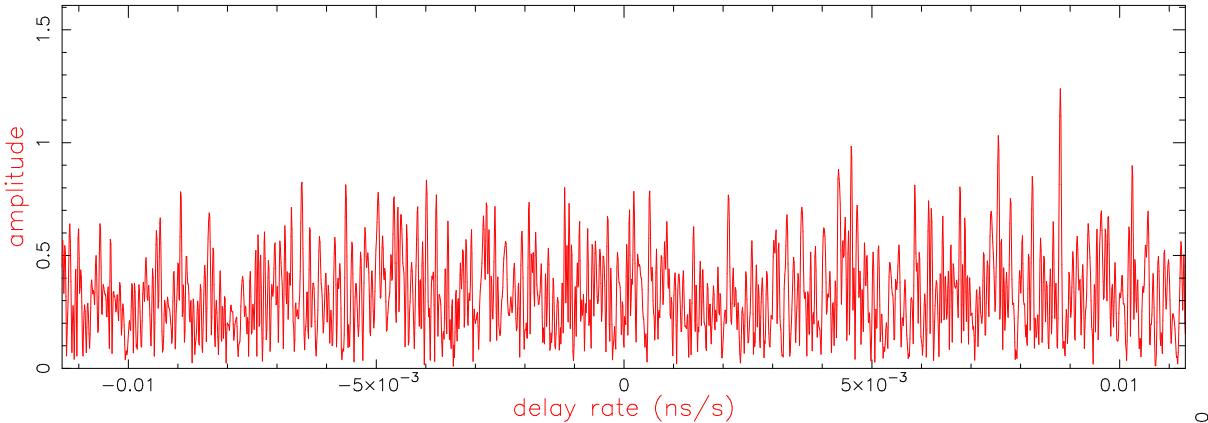
Group delay (usec)(sbd)	-9.73078371822E+03	Apriori delay (usec)	-9.73138854474E+03	Resid mbdelay (usec)	-7.23690E-06	+/-	5.1E-03
Sband delay (usec)	-9.73078372074E+03	Apriori clock (usec)	-2.1046118E+03	Resid sbdelay (usec)	6.04824E-01	+/-	5.1E-03
Phase delay (usec)	-9.73138854011E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	4.62582E-06	+/-	4.1E-07
Delay rate (us/s)	-8.30349371197E-01	Apriori rate (us/s)	-8.30342865740E-01	Resid rate (us/s)	-6.50546E-06	+/-	2.4E-09
Total phase (deg)	-167.7	Apriori accel (us/s/s)	-3.17109362123E-05	Resid phase (deg)	-79.9	+/-	12.8

ph/seg (deg)	RMS 90.6	Theor. 109.8	Amplitude Search (2048X8)	1.415 +/- 0.159	1.201	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.1	191.7	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	6.4	Inc. seg. avg.	0.685	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.407	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				u,v (fr/asec) 5745.739 -10018.418	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

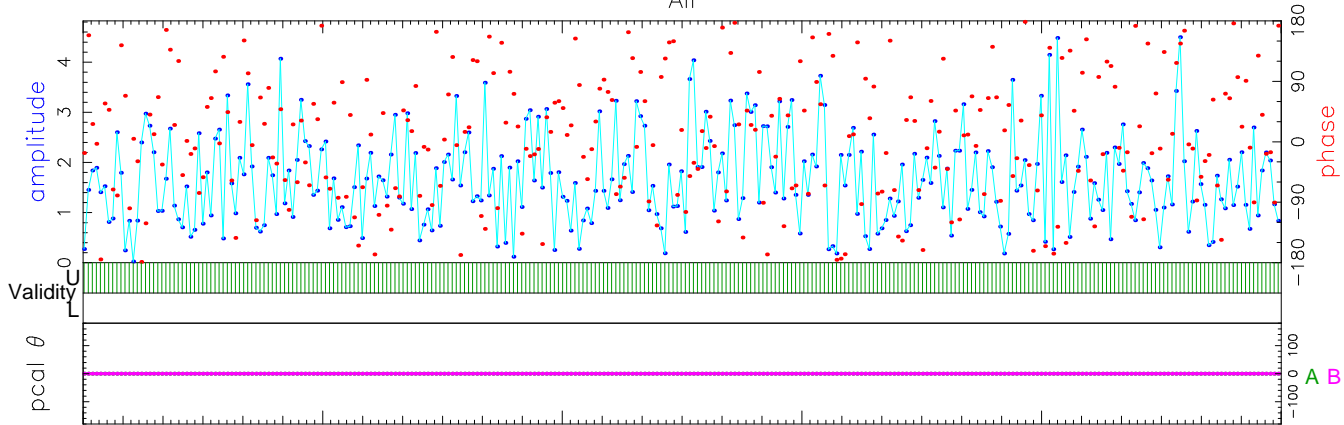
Fringe quality 8

SNR 9.0
Int time 299.979
Amp 1.609
Phase 171.6
PFD 4.8e-12
Delays (us)
SBD -0.085443
MBD 0.000005
Fringe rate (Hz)
0.757826
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051912
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
15.3
0.5
1532.9
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UL

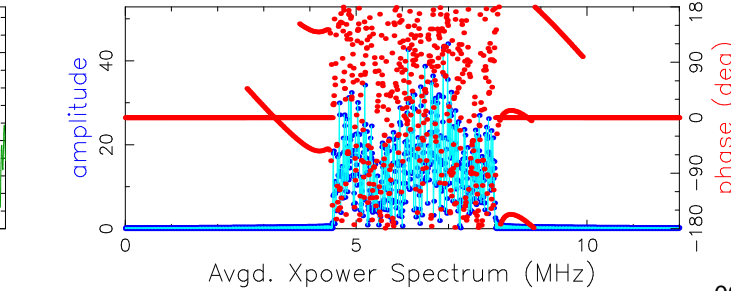
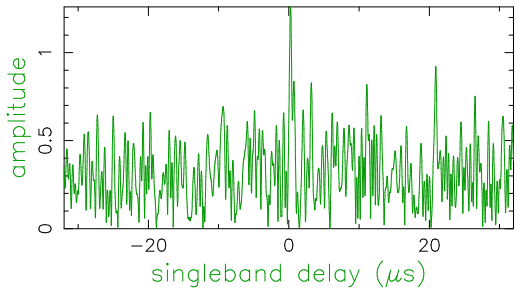
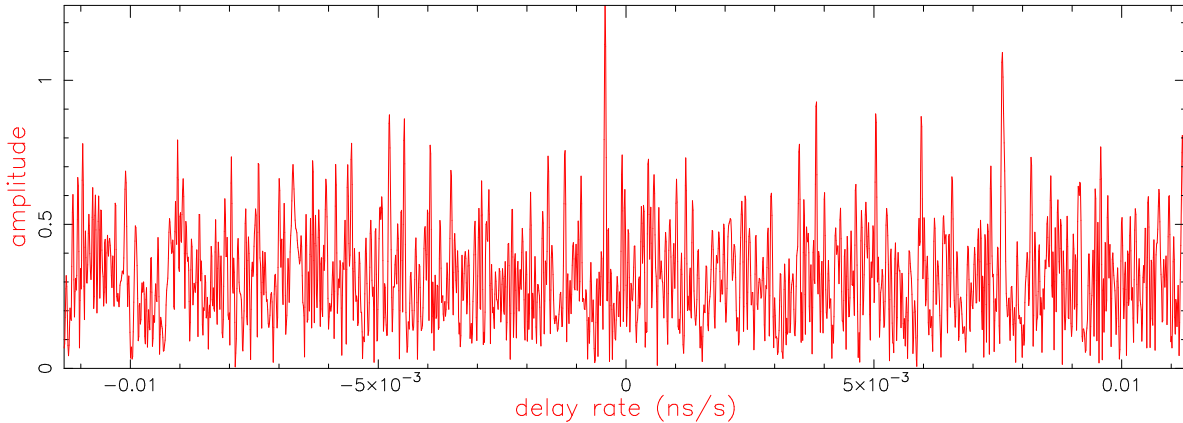
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.84720406106E+02	Apriori delay (usec)	-2.84634962200E+02	Resid mbdelay (usec)	4.96717E-06	+/-	5.1E-03
Sband delay (usec)	-2.84720404867E+02	Apriori clock (usec)	-2.0855344E+03	Resid sbdelay (usec)	-8.54427E-02	+/-	5.1E-03
Phase delay (usec)	-2.84634961706E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.93881E-07	+/-	4.1E-07
Delay rate (us/s)	4.82149062165E-01	Apriori rate (us/s)	4.82140264553E-01	Resid rate (us/s)	8.79761E-06	+/-	2.4E-09
Total phase (deg)	299.8	Apriori accel (us/s/s)	-8.35826913323E-05	Resid phase (deg)	171.6	+/-	12.8

ph/seg (deg)	RMS 90.5	Theor. 109.2	Amplitude Search (2048X8)	1.609 +/- 0.179	1.217	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.7	190.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.767	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.599	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	
						ion window (TEC) 0.00 0.00	

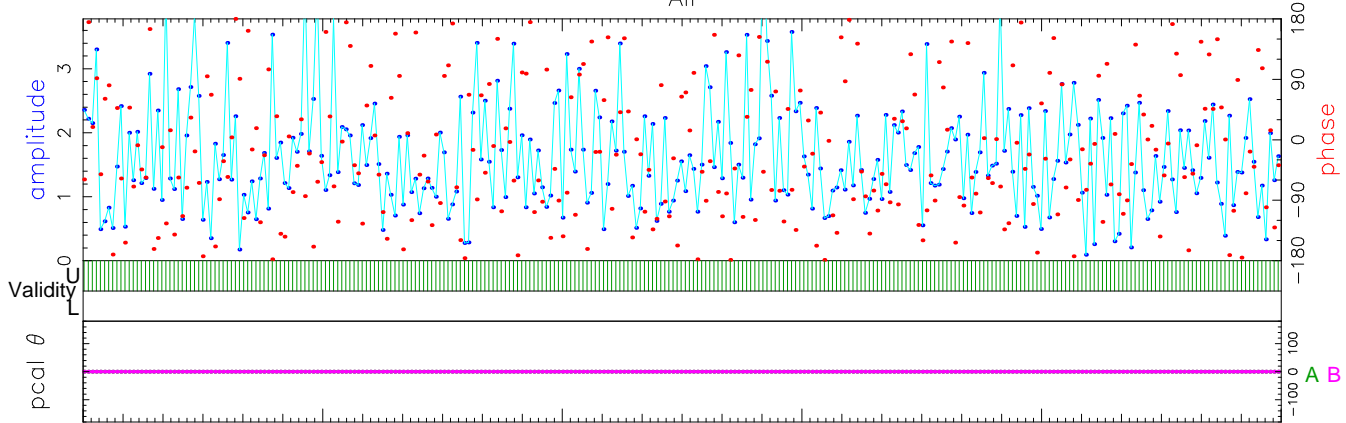
A: az 344.9 el 30.6 pa 163.1 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -3415.674 -12965.835 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/AB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/AB.W.4.1T5GR2

Fringe quality 8



SNR 9.1
Int time 299.979
Amp 1.260
Phase -210.1
PFD 1.2e-12
Delays (us)
SBD 0.245907
MBD -0.000006
Fringe rate (Hz)
-0.036363
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



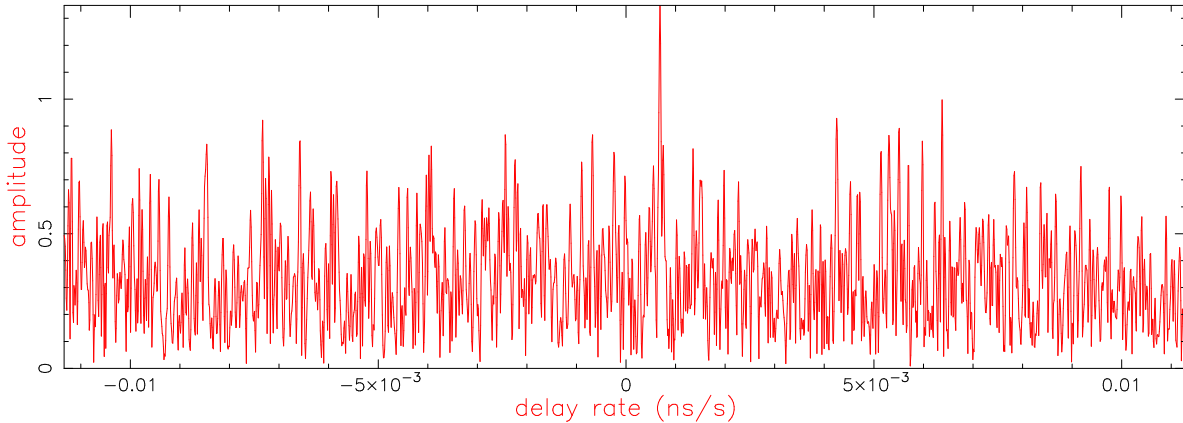
86227.00
-68.2
0.4
1548.8
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UR

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

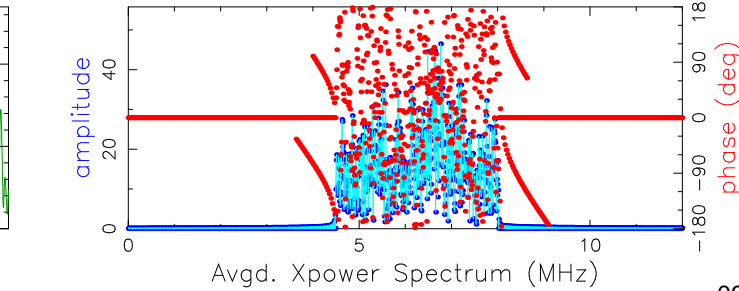
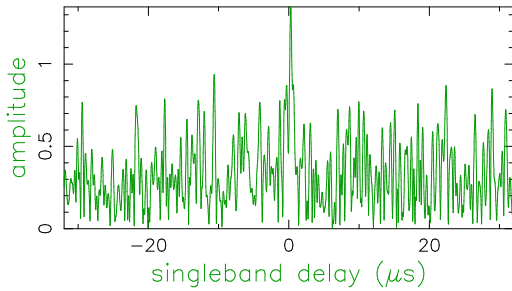
Group delay (usec)(sbd)	-2.84389059416E+02	Apriori delay (usec)	-2.84634962200E+02	Resid mbdelay (usec)	-6.26941E-06	+/-	5.0E-03
Sband delay (usec)	-2.84389055534E+02	Apriori clock (usec)	-2.0855344E+03	Resid sbdelay (usec)	2.45907E-01	+/-	5.0E-03
Phase delay (usec)	-2.84634964400E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.20023E-06	+/-	4.0E-07
Delay rate (us/s)	4.82139842414E-01	Apriori rate (us/s)	4.82140264553E-01	Resid rate (us/s)	-4.22138E-07	+/-	2.3E-09
Total phase (deg)	-81.9	Apriori accel (us/s/s)	-8.35826913323E-05	Resid phase (deg)	-210.1	+/-	12.5

ph/seg (deg)	RMS 93.0	Theor. 107.4	Amplitude Search (2048X8)	1.260 +/- 0.138	1.253	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	73.2	187.4	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	6.3	Inc. seg. avg.	0.592	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.253	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011	
			A: az 344.9 el 30.6 pa 163.1			B: az 293.8 el 25.6 pa 44.9		
			u,v (fr/asec) -3415.674 -12965.835			simultaneous interpolator		

Fringe quality 8

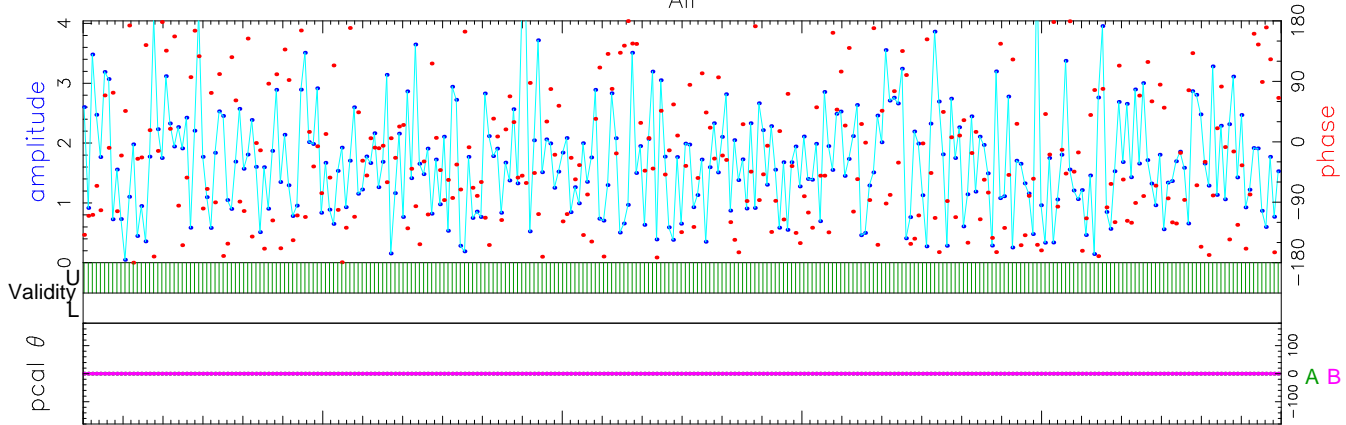


SNR 9.8
Int time 299.979
Amp 1.348
Phase -282.8
PFD 3.3e-15
Delays (us)
SBD 0.270928
MBD 0.000005
Fringe rate (Hz)
0.058969
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-77.5
0.4
1550.0
U/L 586/0
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
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.84364033025E+02	Apriori delay (usec)	-2.84634962200E+02	Resid mbdelay (usec)	4.75480E-06	+/-	4.7E-03
Sband delay (usec)	-2.84364034200E+02	Apriori clock (usec)	-2.0855344E+03	Resid sbdelay (usec)	2.70928E-01	+/-	4.7E-03
Phase delay (usec)	-2.84634964698E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.49814E-06	+/-	3.8E-07
Delay rate (us/s)	4.82140949122E-01	Apriori rate (us/s)	4.82140264553E-01	Resid rate (us/s)	6.84569E-07	+/-	2.2E-09
Total phase (deg)	-154.6	Apriori accel (us/s/s)	-8.35826913323E-05	Resid phase (deg)	-282.8	+/-	11.7

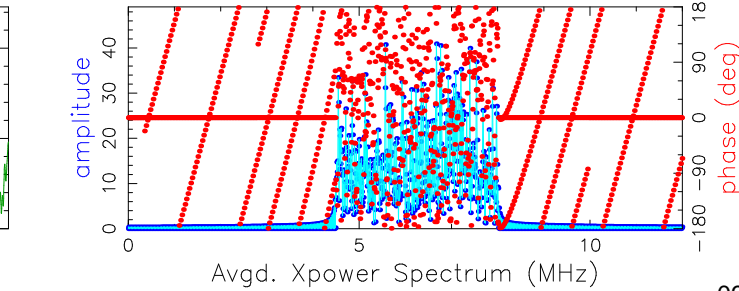
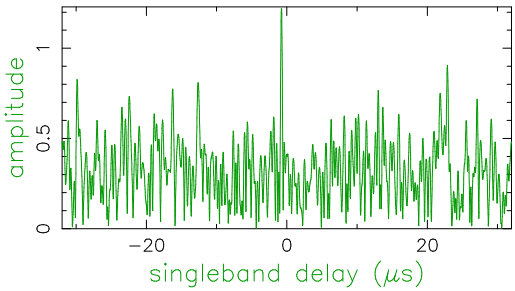
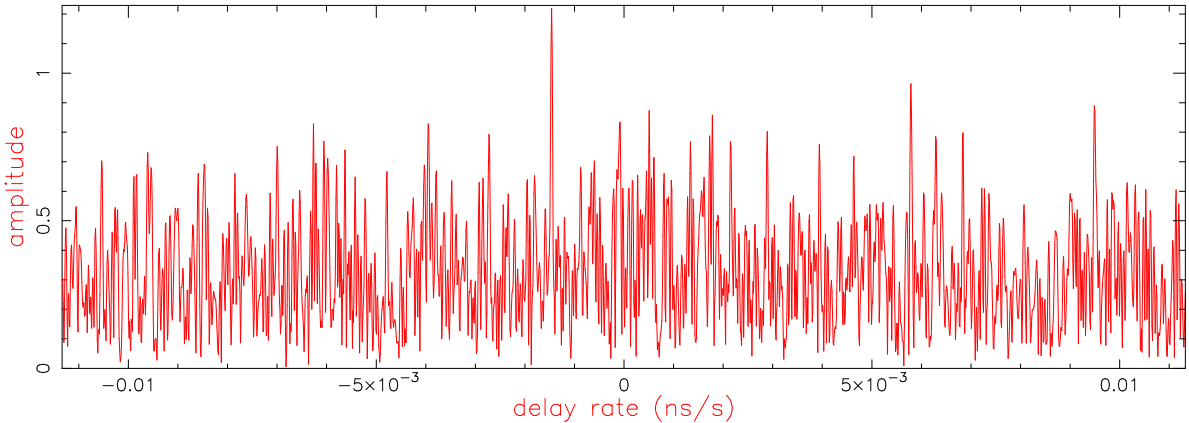
ph/seg (deg)	91.1	Theor.	100.5	Amplitude	1.348 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.2	Search (2048X8)	1.334	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.677	Inc. frq. avg.	1.341	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.341			Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	
						nlags:	1536 t_cohere infinite			

A: az 344.9 el 30.6 pa 163.1 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -3415.674 -12965.835 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/AB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/AB.W.55.1T5GR2

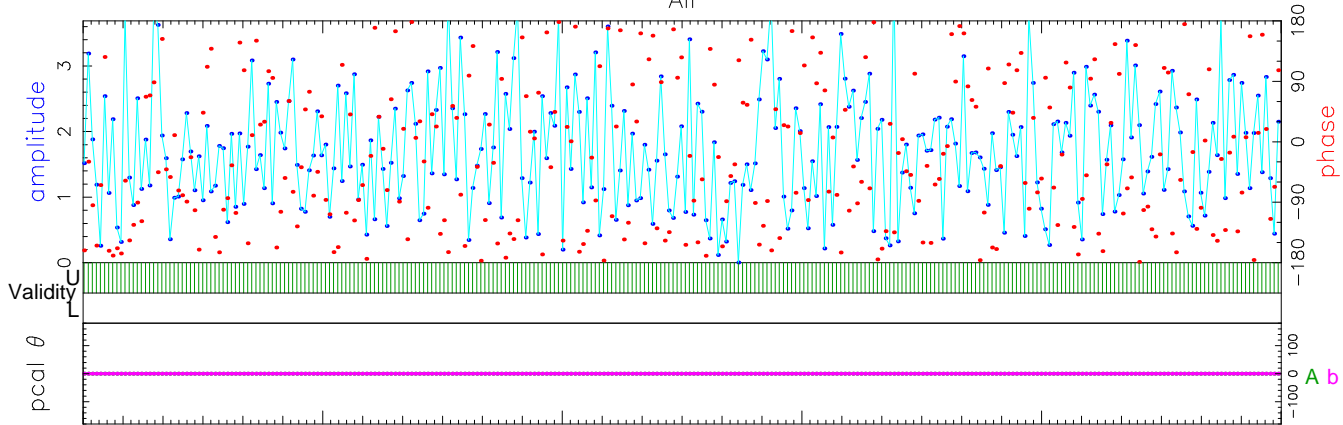
Fringe quality 8

SNR 8.9
Int time 299.975
Amp 1.230
Phase 4.7
PFD 1.5e-11
Delays (us)
SBD -0.762617
MBD -0.000004
Fringe rate (Hz)
-0.125824
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-120.4
0.4
1500.4
U/L 586/0
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 freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.73215116411E+03	Apriori delay (usec)	-9.73138854474E+03	Resid mbdelay (usec)	-4.41310E-06	+/- 5.2E-03
Sband delay (usec)	-9.73215116207E+03	Apriori clock (usec)	-2.1046118E+03	Resid sbdelay (usec)	-7.62617E-01	+/- 5.2E-03
Phase delay (usec)	-9.73138854862E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-3.88263E-06	+/- 4.2E-07
Delay rate (us/s)	-8.30344326430E-01	Apriori rate (us/s)	-8.30342865740E-01	Resid rate (us/s)	-1.46069E-06	+/- 2.4E-09
Total phase (deg)	276.9	Apriori accel (us/s/s)	-3.17109362123E-05	Resid phase (deg)	4.7	+/- 12.9

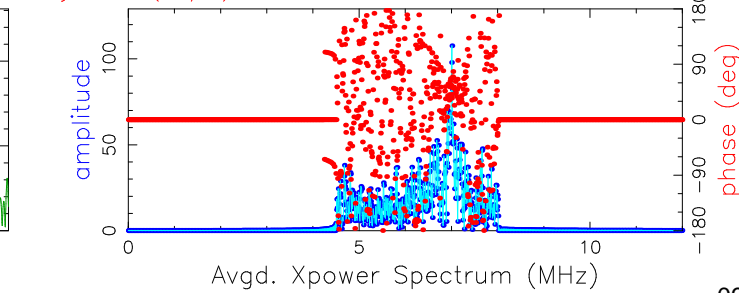
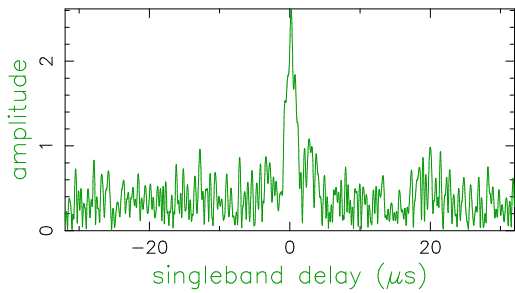
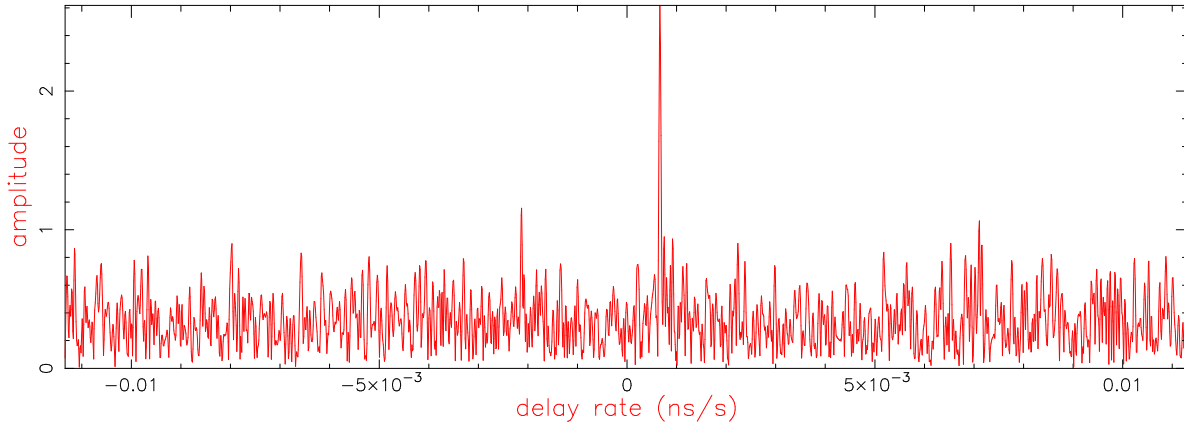
ph/seg (deg)	RMS 95.0	Theor. 110.8	Amplitude Search (2048X8)	1.230 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.0	193.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.604	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.220	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
						ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 5745.739 -10018.418 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ab..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ab.W.7.1T5GR2

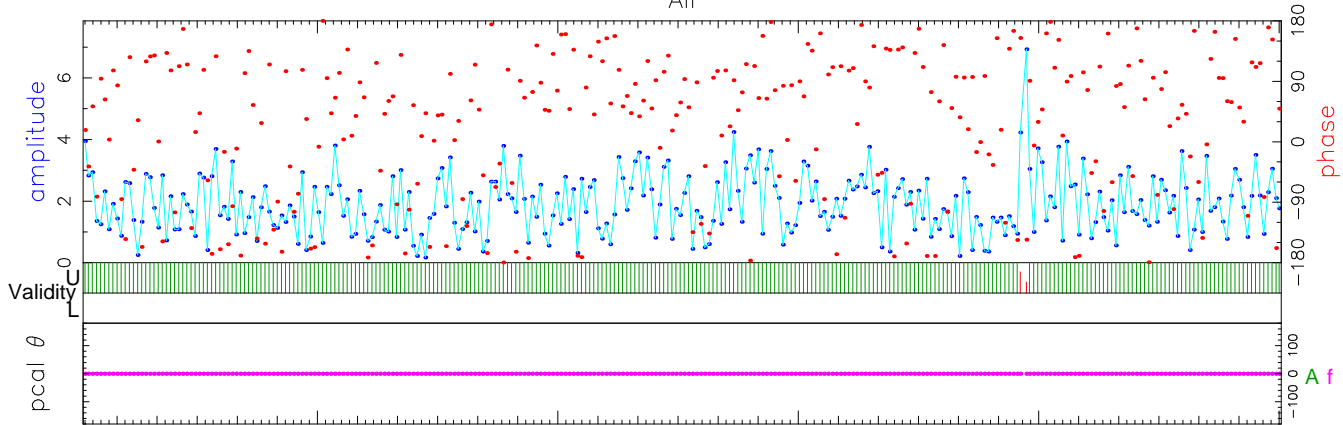
Fringe quality 7

SNR 18.8
Int time 296.266
Amp 2.618
Phase -135.8
PFD 0.0e+00
Delays (us)
SBD 0.191516
MBD 0.000004
Fringe rate (Hz)
0.057330
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



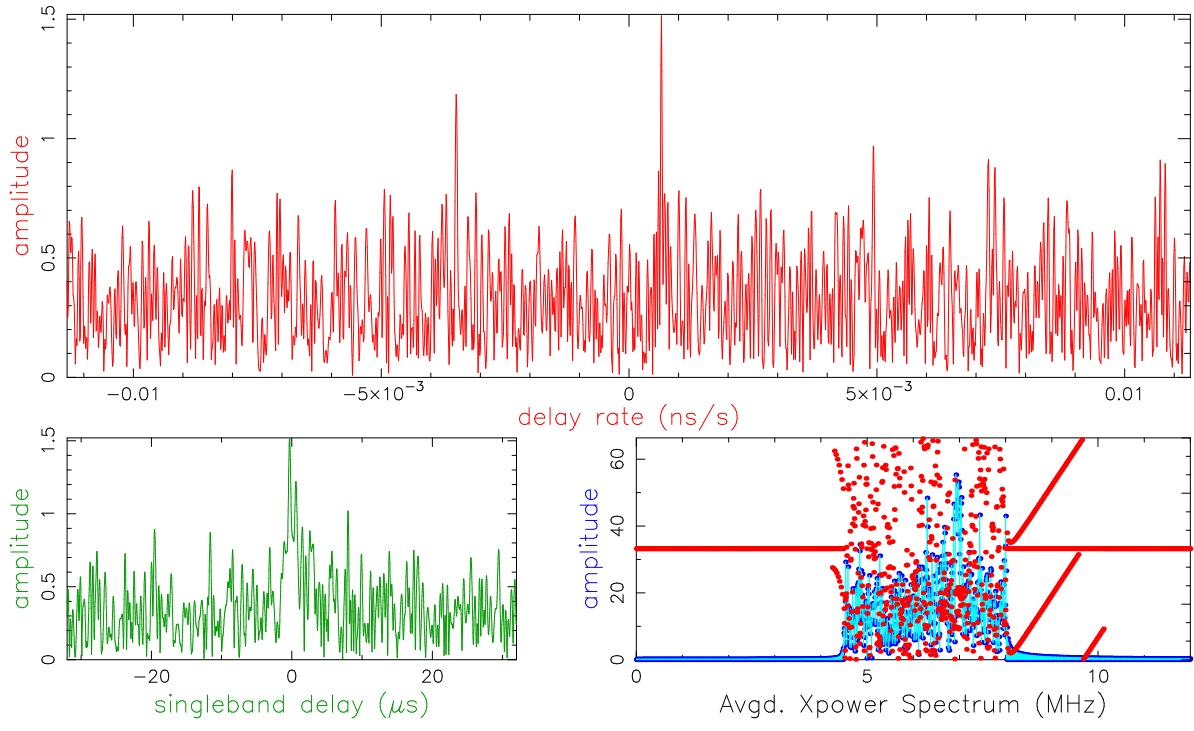
86227.00
102.2
0.8
1546.2
U/L 581/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UR

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)	-1.16002858378E+04	Apriori delay (usec)	-1.16004773484E+04	Resid mbdelay (usec)	4.42785E-06	+/-	2.4E-03
Sband delay (usec)	-1.16002858324E+04	Apriori clock (usec)	-2.1178633E+03	Resid sbdelay (usec)	1.91516E-01	+/-	2.4E-03
Phase delay (usec)	-1.16004773451E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	3.29593E-06	+/-	2.0E-07
Delay rate (us/s)	-7.06258157331E-01	Apriori rate (us/s)	-7.06258822873E-01	Resid rate (us/s)	6.65541E-07	+/-	1.1E-09
Total phase (deg)	-59.1	Apriori accel (us/s/s)	-6.85650037441E-06	Resid phase (deg)	-135.8	+/-	6.1

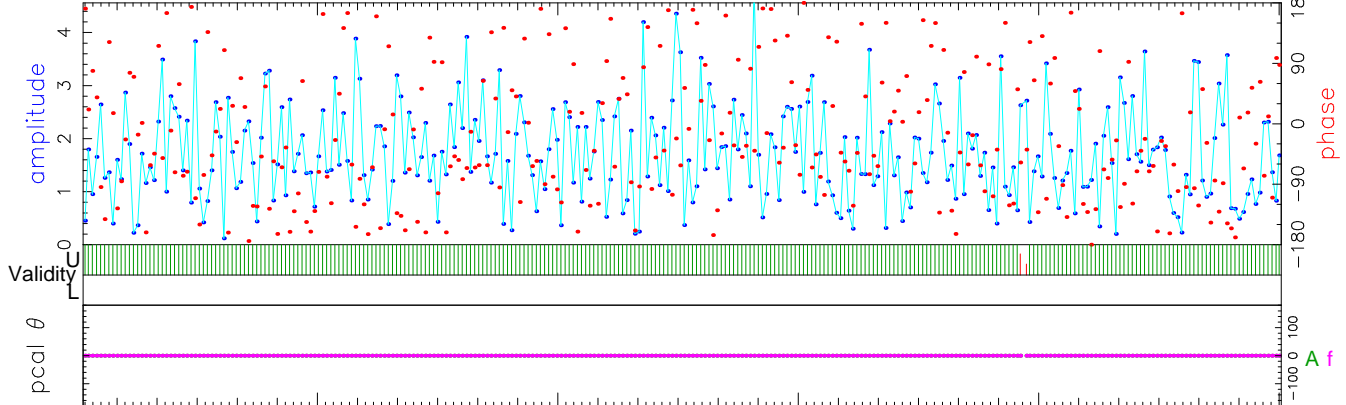
ph/seg (deg)	RMS 83.4	Theor. 51.9	Amplitude 2.618 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.4	51.9	Search (2048X8) 2.593	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	45.1	90.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.0	3.0	Inc. seg. avg. 1.329	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
	70.7	5.3	Inc. frq. avg. 2.614	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 4905.760 -6958.810 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Af..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Af.W.23.1T5GR2



Fringe quality 7
SNR 10.9
Int time 296.266
Amp 1.520
Phase 191.7
PFD 1.6e-20
Delays (us)
SBD -0.318673
MBD 0.000007
Fringe rate (Hz)
0.056607
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-69.4
0.4
1521.7
U/L 581/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UR

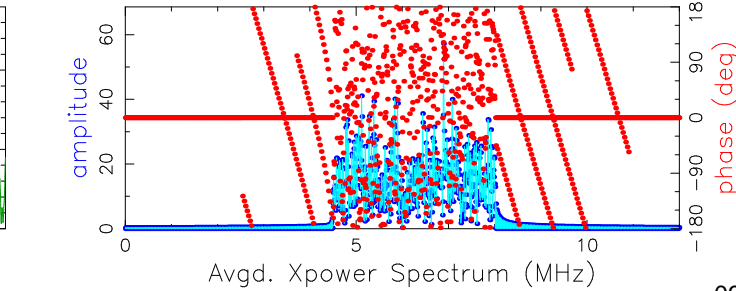
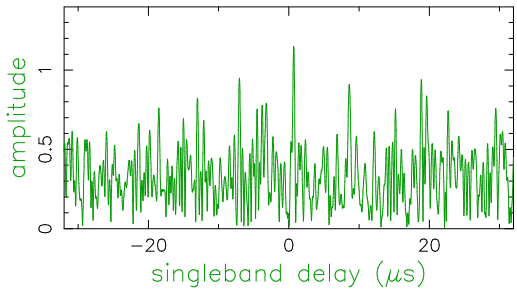
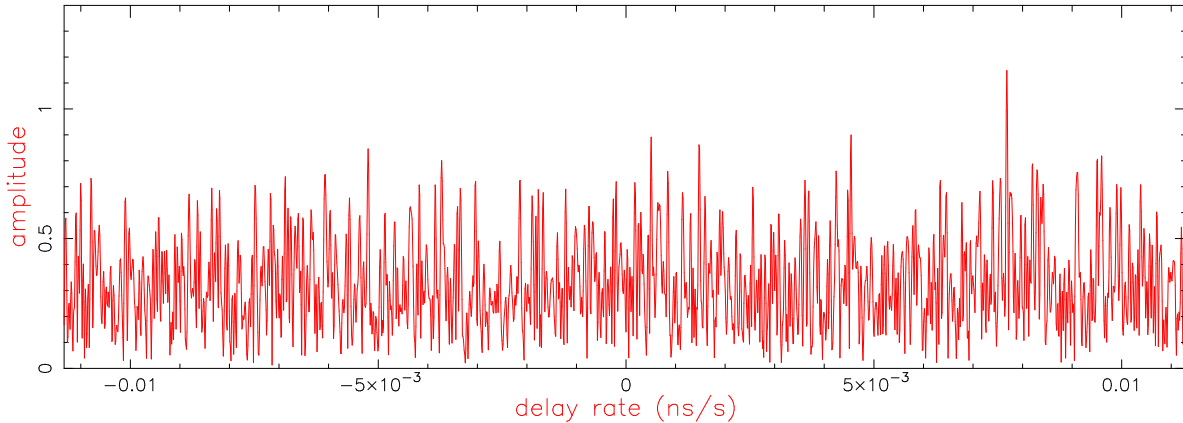
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.16007960239E+04	Apriori delay (usec)	-1.16004773484E+04	Resid mbdelay (usec)	6.50126E-06	+/-	4.2E-03
Sband delay (usec)	-1.16007960217E+04	Apriori clock (usec)	-2.1178633E+03	Resid sbdelay (usec)	-3.18673E-01	+/-	4.2E-03
Phase delay (usec)	-1.16004773506E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-2.23773E-06	+/-	3.4E-07
Delay rate (us/s)	-7.06258165722E-01	Apriori rate (us/s)	-7.06258822873E-01	Resid rate (us/s)	6.57150E-07	+/-	2.0E-09
Total phase (deg)	268.4	Apriori accel (us/s/s)	-6.85650037441E-06	Resid phase (deg)	191.7	+/-	10.5

ph/seg (deg)	RMS 92.7	Theor. 89.3	Amplitude Search (2048X8)	1.520 +/- 0.139	1.482	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	61.4	155.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	5.2	Inc. seg. avg.	0.775	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	9.1	Inc. frq. avg.	1.510	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

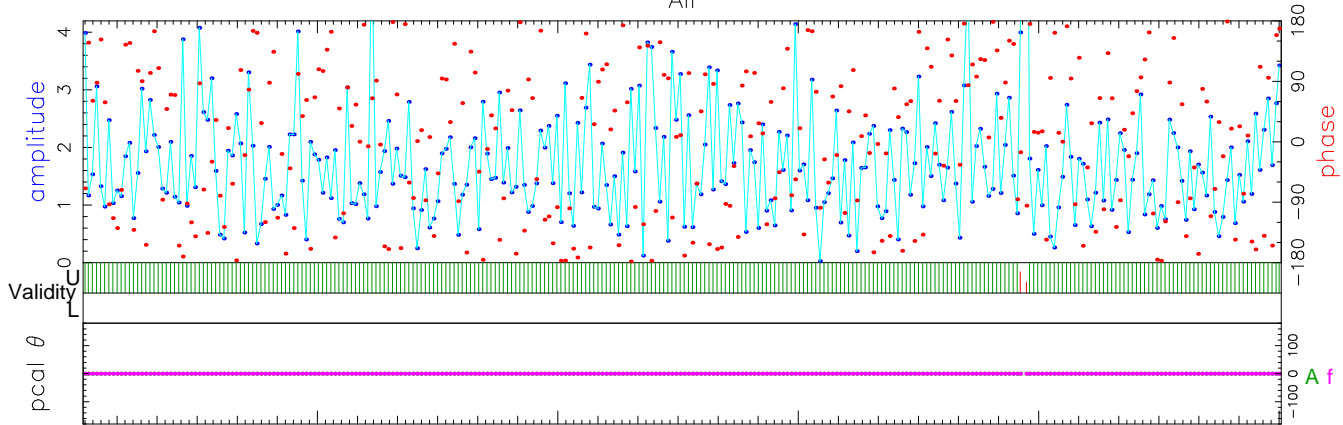
A: az 344.9 el 30.6 pa 163.1 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 4905.760 -6958.810 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Af..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Af.W.29.1T5GR2

Fringe quality 8



SNR 8.3
Int time 296.266
Amp 1.399
Phase -129.4
PFD 1.9e-09
Delays (us)
SBD 0.698340
MBD 0.000007
Fringe rate (Hz)
0.660723
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051912
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

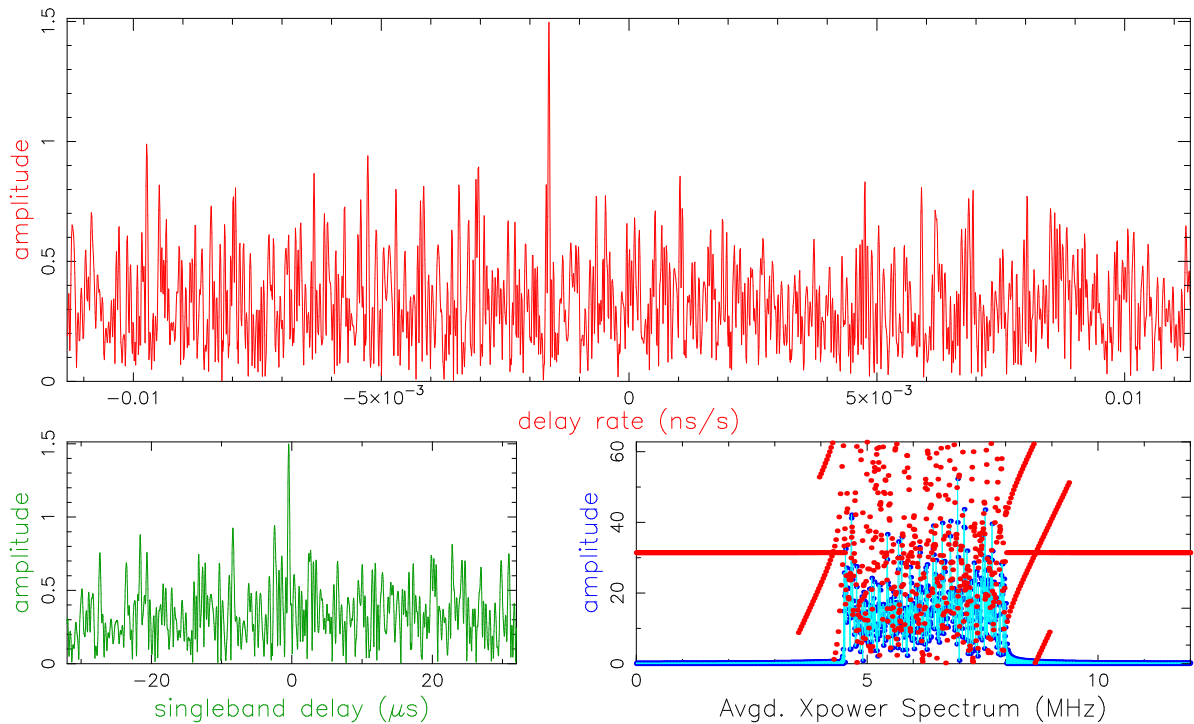


86227.00
142.3
0.4
1570.5
U/L 581/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UL

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

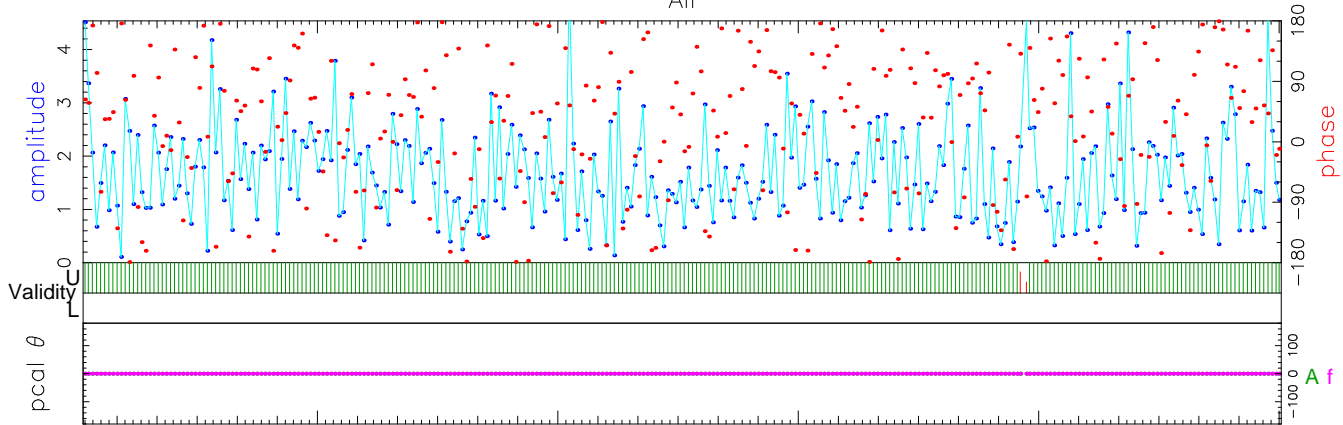
Group delay (usec)(sbd)	-1.15997790106E+04	Apriori delay (usec)	-1.16004773484E+04	Resid mbdelay (usec)	6.64859E-06	+/-	5.5E-03
Sband delay (usec)	-1.15997790084E+04	Apriori clock (usec)	-2.1178633E+03	Resid sbdelay (usec)	6.98340E-01	+/-	5.5E-03
Phase delay (usec)	-1.16004773438E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	4.58947E-06	+/-	4.5E-07
Delay rate (us/s)	-7.06251152532E-01	Apriori rate (us/s)	-7.06258822873E-01	Resid rate (us/s)	7.67034E-06	+/-	2.6E-09
Total phase (deg)	-52.7	Apriori accel (us/s/s)	-6.85650037441E-06	Resid phase (deg)	-129.4	+/-	13.8

ph/seg (deg)	RMS 94.3	Theor. 117.9	Amplitude Search (2048X8)	1.399 +/- 0.169	1.137	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	91.9	205.8	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	6.9	Inc. seg. avg.	0.657	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.1	Inc. frq. avg.	1.386	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				A: az 344.9 el 30.6 pa 163.1	f: az 72.2 el 72.4 pa -96.7	u,v (fr/asec) 4905.760 -6958.810	ion window (TEC) 0.00 0.00



Fringe quality 7
SNR 10.8
Int time 296.266
Amp 1.513
Phase 48.3
PFD 6.5e-20
Delays (us)
SBD -0.447175
MBD -0.000006
Fringe rate (Hz)
-0.138935
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
83.0
0.4
1515.5
U/L 581/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UL

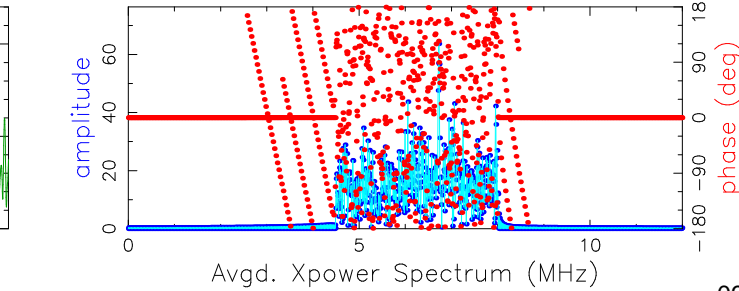
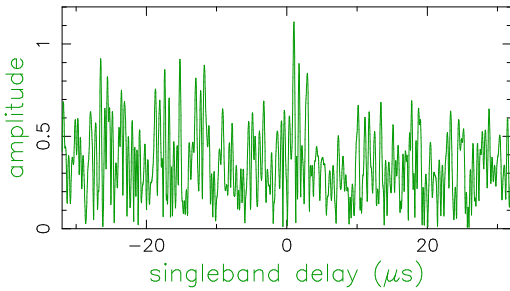
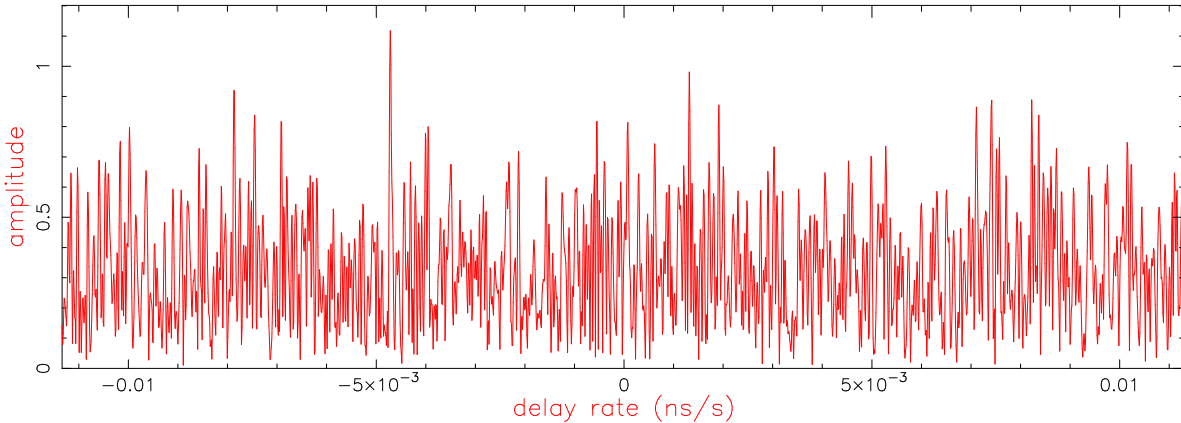
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.16009245227E+04	Apriori delay (usec)	-1.16004773484E+04	Resid mbdelay (usec)	-5.86545E-06	+/-	4.2E-03
Sband delay (usec)	-1.16009245230E+04	Apriori clock (usec)	-2.1178633E+03	Resid sbdelay (usec)	-4.47175E-01	+/-	4.2E-03
Phase delay (usec)	-1.16004773457E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	2.67737E-06	+/-	3.4E-07
Delay rate (us/s)	-7.06260435767E-01	Apriori rate (us/s)	-7.06258822873E-01	Resid rate (us/s)	-1.61289E-06	+/-	2.0E-09
Total phase (deg)	125.0	Apriori accel (us/s/s)	-6.85650037441E-06	Resid phase (deg)	48.3	+/-	10.6

ph/seg (deg)	RMS 88.9	Theor. 90.4	Amplitude Search (2048X8)	1.513 +/- 0.140	1.460	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	60.1	157.8	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	5.3	Inc. seg. avg.	0.751	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	9.2	Inc. frq. avg.	1.503	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

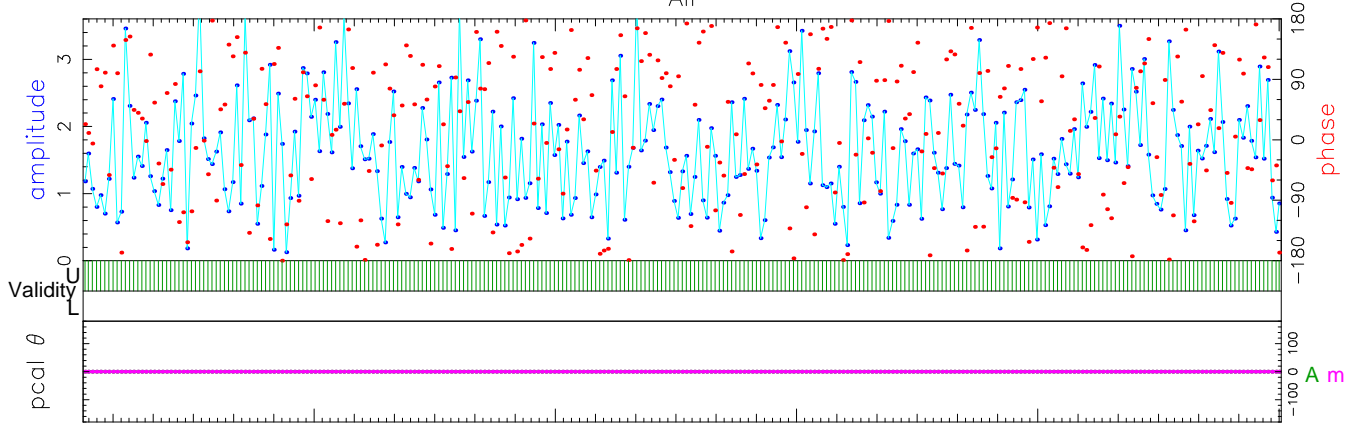
A: az 344.9 el 30.6 pa 163.1 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 4905.760 -6958.810 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Af..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Af.W.35.1T5GR2

Fringe quality 8



SNR 8.1
Int time 296.984
Amp 1.202
Phase -255.6
PFD 1.2e-08
Delays (us)
SBD 1.000000
MBD -0.000006
Fringe rate (Hz)
-0.406270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



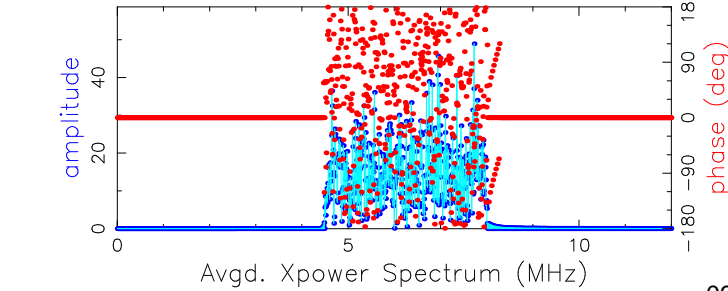
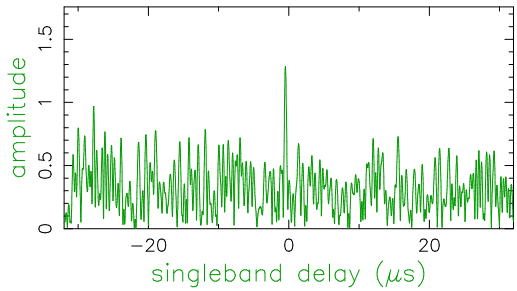
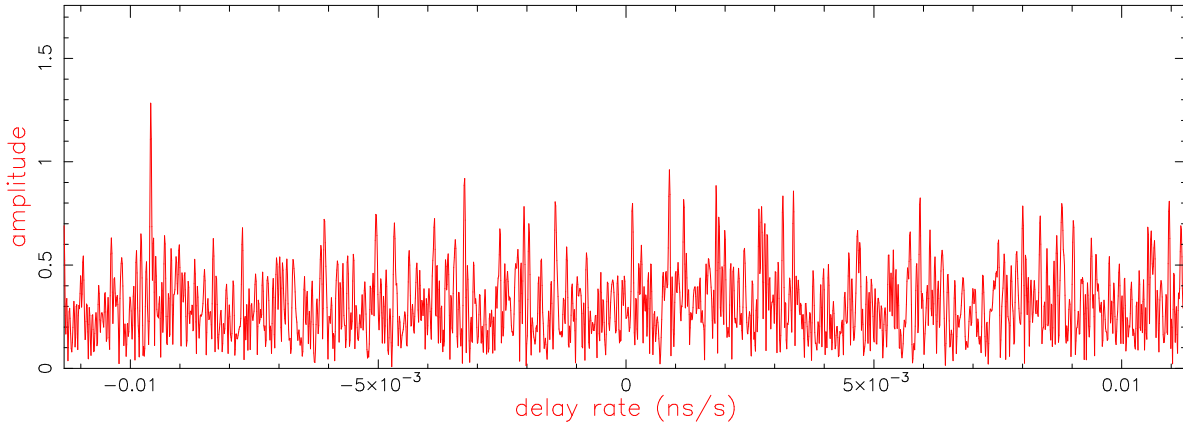
86227.00
104.4
0.4
1585.6
U/L 581/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UR

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)	-6.36352122454E+02	Apriori delay (usec)	-6.37352116940E+02	Resid mbdelay (usec)	-5.51400E-06	+/- 5.7E-03
Sband delay (usec)	-6.36352116940E+02	Apriori clock (usec)	-2.1233193E+03	Resid sbdelay (usec)	1.00000E+00	+/- 5.7E-03
Phase delay (usec)	-6.37352113574E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.36572E-06	+/- 4.6E-07
Delay rate (us/s)	-1.47475500659E+00	Apriori rate (us/s)	-1.47475029020E+00	Resid rate (us/s)	-4.71639E-06	+/- 2.7E-09
Total phase (deg)	-22.8	Apriori accel (us/s/s)	-5.43175790529E-05	Resid phase (deg)	-255.6	+/- 14.2

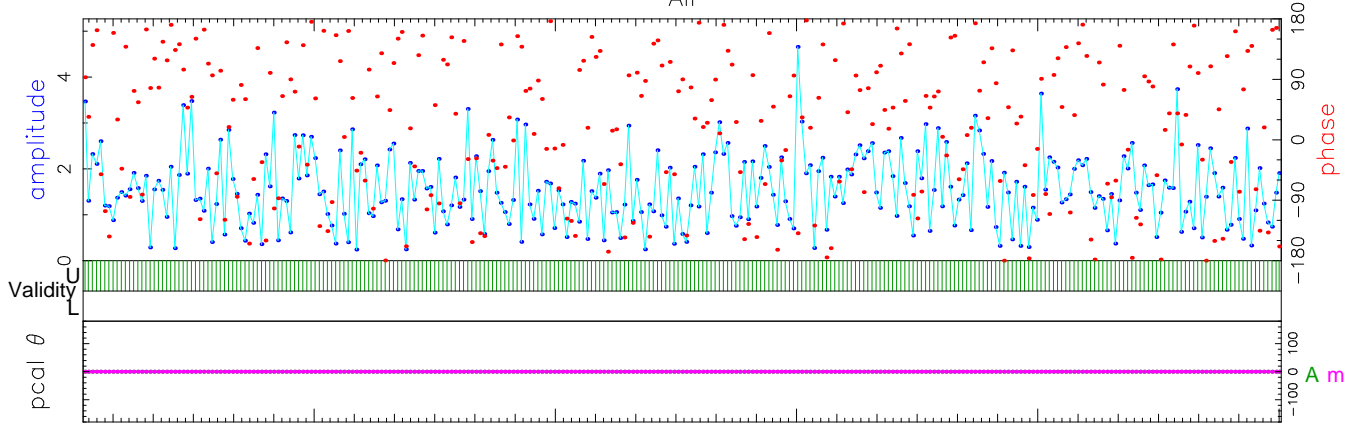
ph/seg (deg)	RMS 94.1	Theor. 121.2	Amplitude Search (2048X8)	1.202 +/- 0.149	1.112	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.8	211.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.545	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.192	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
A: az 344.9 el 30.6 pa 163.1		m: az 60.4 el 25.6 pa -83.1		u,v (fr/asec) 10193.661 -8293.080		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 9.3
Int time 296.984
Amp 1.757
Phase 239.1
PFD 3.5e-13
Delays (us)
SBD -0.487273
MBD -0.000007
Fringe rate (Hz)
-0.825143
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
98.1
0.5
1513.6
U/L 581/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m 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)	-6.37839384556E+02	Apriori delay (usec)	-6.37352116940E+02	Resid mbdelay (usec)	-7.24481E-06	+/-	5.0E-03
Sband delay (usec)	-6.37839390273E+02	Apriori clock (usec)	-2.1233193E+03	Resid sbdelay (usec)	-4.87273E-01	+/-	5.0E-03
Phase delay (usec)	-6.37352113775E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.16480E-06	+/-	4.0E-07
Delay rate (us/s)	-1.47475986928E+00	Apriori rate (us/s)	-1.47475029020E+00	Resid rate (us/s)	-9.57909E-06	+/-	2.3E-09
Total phase (deg)	112.0	Apriori accel (us/s/s)	-5.43175790529E-05	Resid phase (deg)	239.1	+/-	12.4

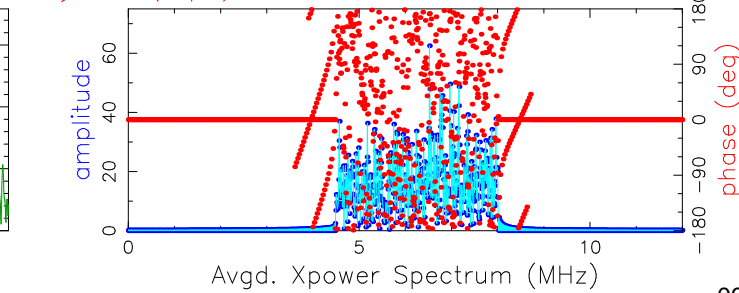
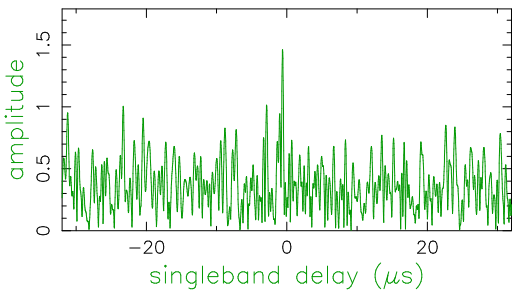
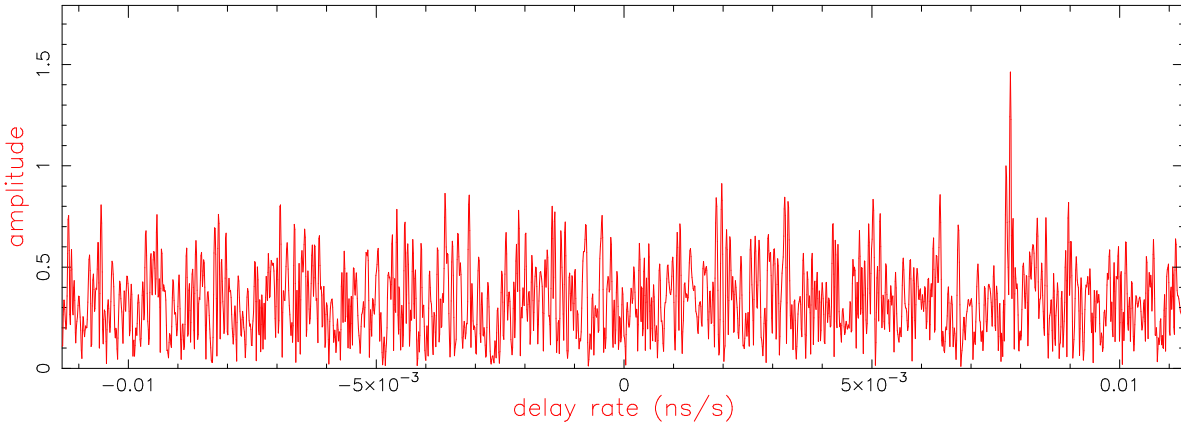
ph/seg (deg)	92.8	Theor.	105.5	Amplitude	1.757 +/- 0.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.8	Search (2048X8)	1.263	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.787	Inc. frq. avg.	1.745	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.745	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				nlags: 1536	t_cohere infinite		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 10193.661 -8293.080 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Am..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Am.W.46.1T5GR2

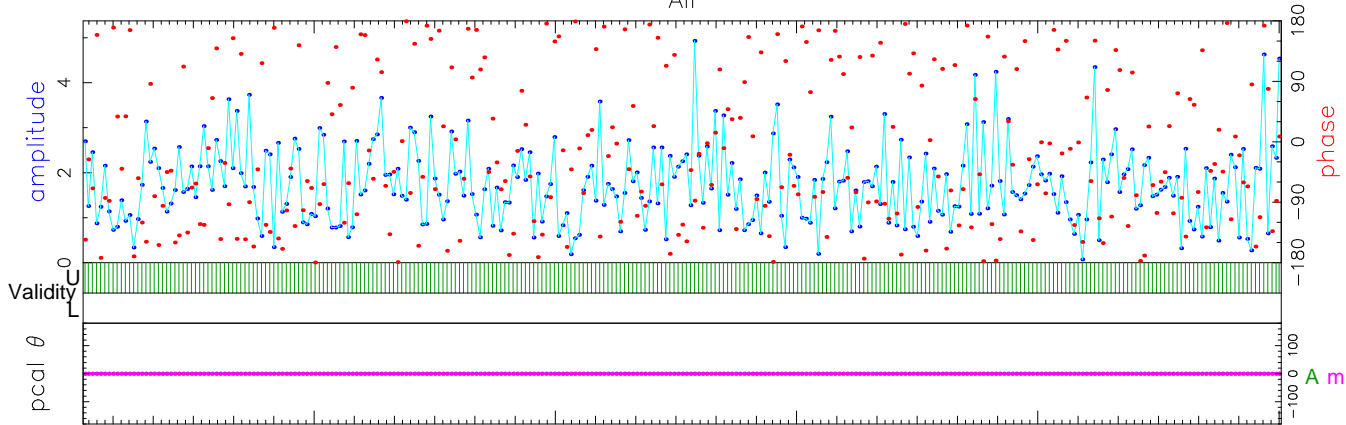
Fringe quality 7

SNR 10.6
Int time 296.984
Amp 1.792
Phase 204.2
PFD 9.5e-19
Delays (us)
SBD -0.608116
MBD 0.000007
Fringe rate (Hz)
0.670921
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-122.4
0.5
1507.8
U/L 581/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UL

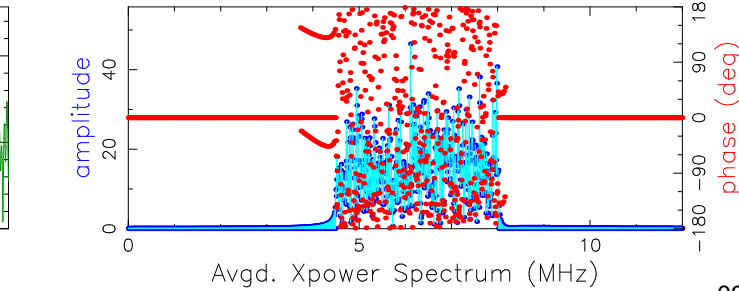
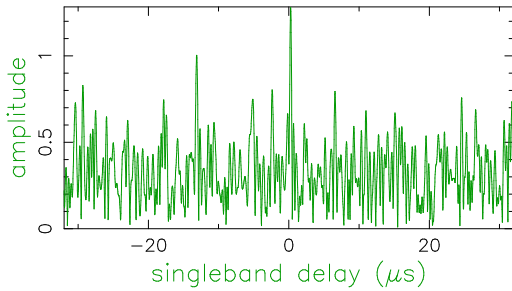
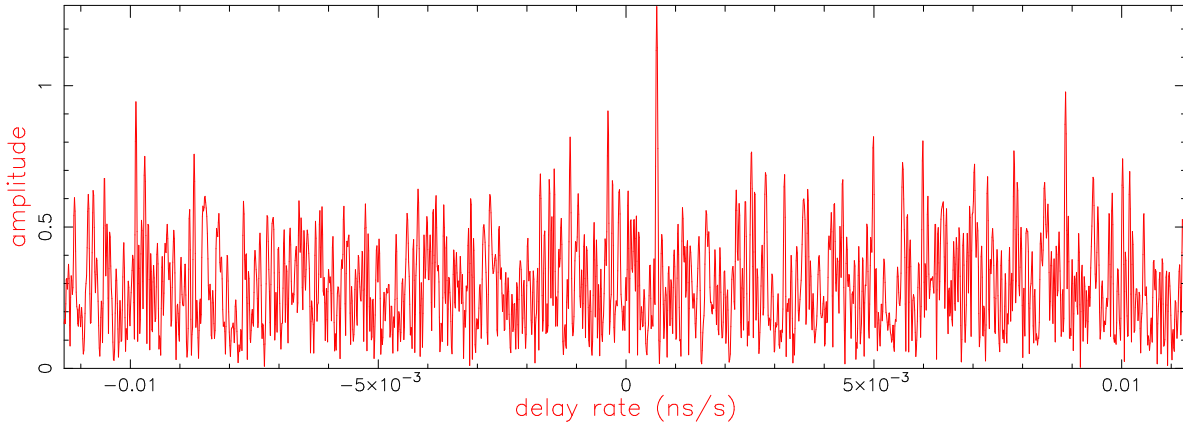
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.37960237728E+02	Apriori delay (usec)	-6.37352116940E+02	Resid mbdelay (usec)	6.59682E-06	+/-	4.3E-03
Sband delay (usec)	-6.37960232940E+02	Apriori clock (usec)	-2.1233193E+03	Resid sbdelay (usec)	-6.08116E-01	+/-	4.3E-03
Phase delay (usec)	-6.37352120887E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.94663E-06	+/-	3.5E-07
Delay rate (us/s)	-1.47474250147E+00	Apriori rate (us/s)	-1.47475029020E+00	Resid rate (us/s)	7.78872E-06	+/-	2.0E-09
Total phase (deg)	77.0	Apriori accel (us/s/s)	-5.43175790529E-05	Resid phase (deg)	204.2	+/-	10.8

ph/seg (deg)	88.8	Theor.	92.5	Amplitude	1.792 +/- 0.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	61.7	Search (2048X8)	1.400	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.924	Inc. frq. avg.	1.783	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.783	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				nlags: 1536	t_cohere infinite	ion window (TEC)	0.00 0.00

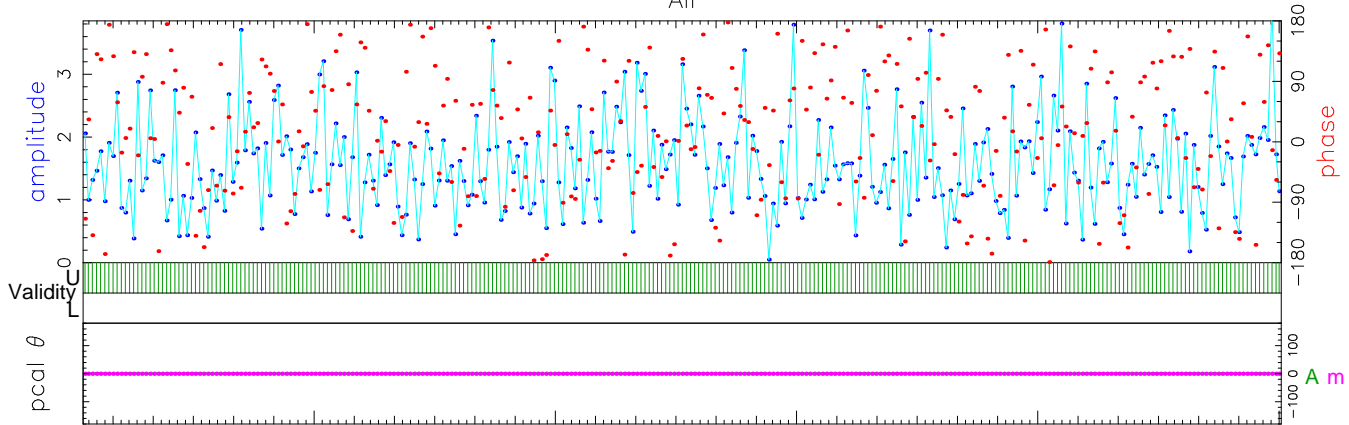
A: az 344.9 el 30.6 pa 163.1 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 10193.661 -8293.080 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Am..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Am.W.61.1T5GR2

Fringe quality 8



SNR 9.2
Int time 296.984
Amp 1.284
Phase -215.1
PFD 4.2e-13
Delays (us)
SBD 0.261049
MBD 0.000005
Fringe rate (Hz)
0.053766
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
40.8
0.4
1549.5
U/L 581/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UL

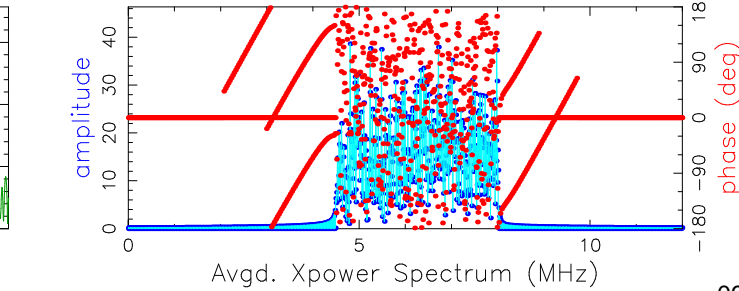
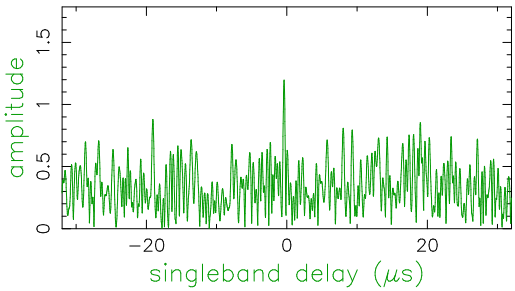
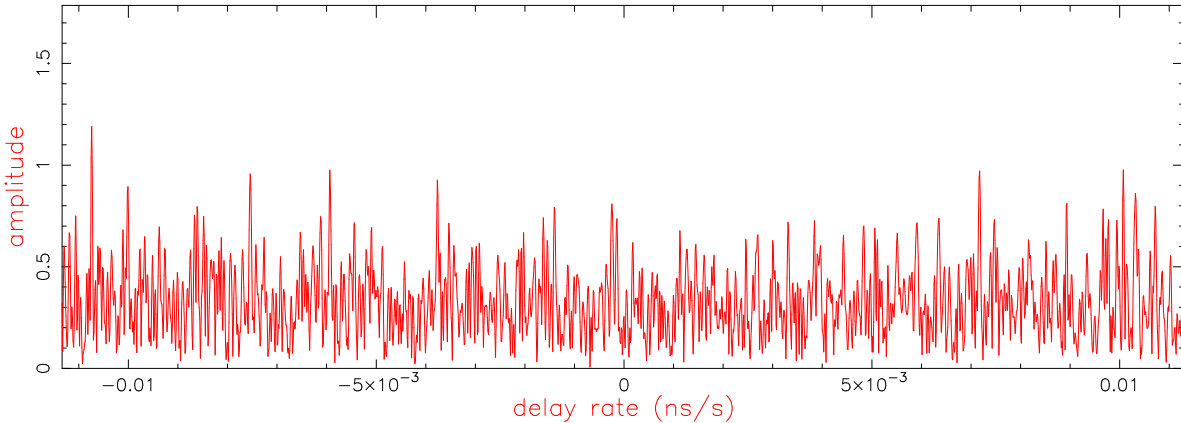
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.37091068696E+02	Apriori delay (usec)	-6.37352116940E+02	Resid mbdelay (usec)	4.71954E-06	+/-	5.0E-03
Sband delay (usec)	-6.37091067607E+02	Apriori clock (usec)	-2.1233193E+03	Resid sbdelay (usec)	2.61049E-01	+/-	5.0E-03
Phase delay (usec)	-6.37352115625E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.31444E-06	+/-	4.0E-07
Delay rate (us/s)	-1.47474966603E+00	Apriori rate (us/s)	-1.47475029020E+00	Resid rate (us/s)	6.24168E-07	+/-	2.3E-09
Total phase (deg)	-342.3	Apriori accel (us/s/s)	-5.43175790529E-05	Resid phase (deg)	-215.1	+/-	12.4

ph/seg (deg)	91.2	Theor.	105.7	Amplitude	1.284 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.9		184.4	Search (2048X8)	1.250	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		6.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8		10.8	Inc. seg. avg.	0.588	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	1.273	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

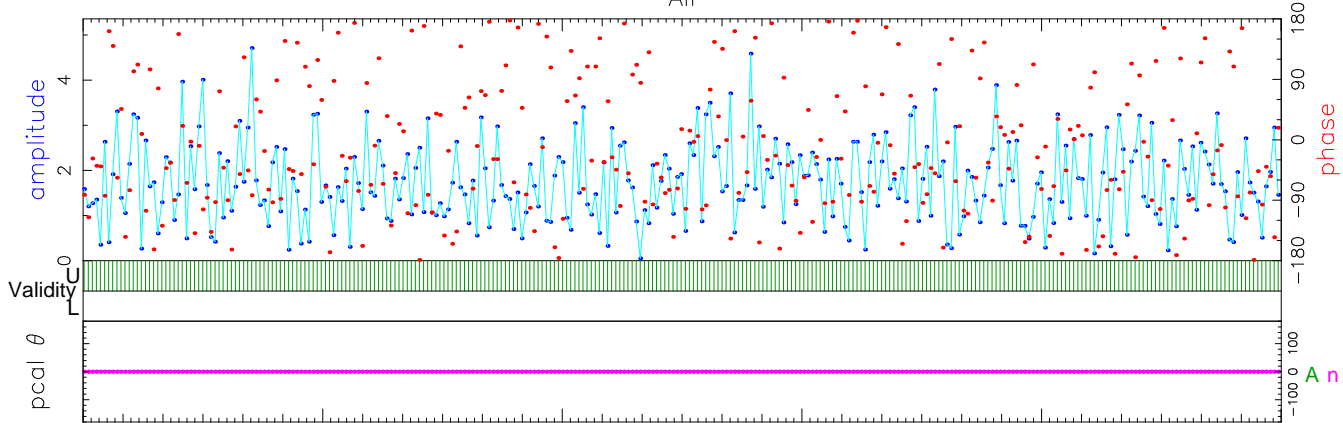
A: az 344.9 el 30.6 pa 163.1 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 10193.661 -8293.080 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Am..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Am.W.6.1T5GR2

Fringe quality 8



SNR 8.7
Int time 299.973
Amp 1.786
Phase 319.0
PFD 6.8e-11
Delays (us)
SBD -0.391440
MBD -0.000007
Fringe rate (Hz)
-0.923923
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-60.6
0.5
1518.2
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UR

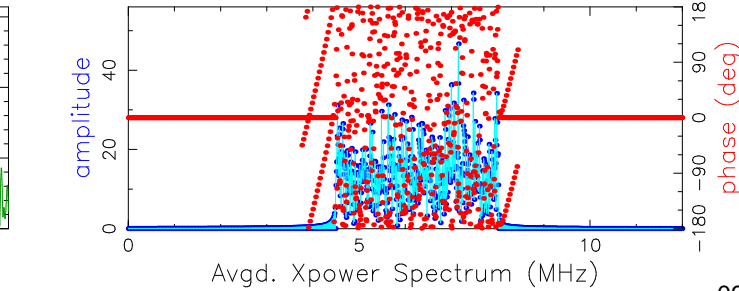
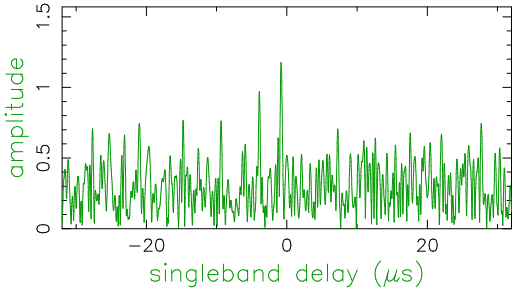
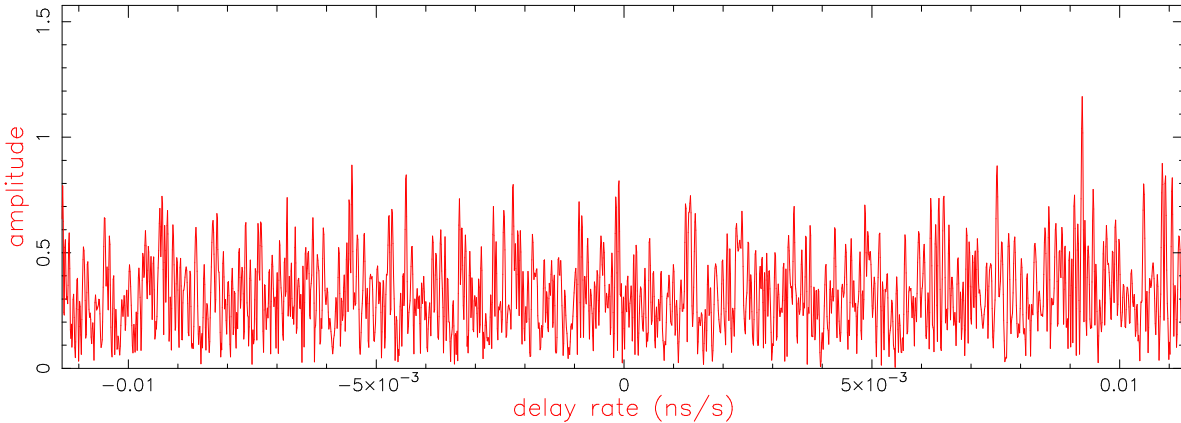
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22459557839E+04	Apriori delay (usec)	-1.22455643447E+04	Resid mbdelay (usec)	-7.24355E-06	+/-	5.3E-03
Sband delay (usec)	-1.22459557847E+04	Apriori clock (usec)	-2.1130864E+03	Resid sbdelay (usec)	-3.91440E-01	+/-	5.3E-03
Phase delay (usec)	-1.22455643467E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.95469E-06	+/-	4.3E-07
Delay rate (us/s)	-4.56458791715E-01	Apriori rate (us/s)	-4.56448065890E-01	Resid rate (us/s)	-1.07258E-05	+/-	2.5E-09
Total phase (deg)	83.7	Apriori accel (us/s/s)	-1.33747602156E-05	Resid phase (deg)	319.0	+/-	13.2

ph/seg (deg)	RMS 94.2	Theor. 113.0	Amplitude Search (2048X8)	1.786 +/- 0.206	1.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.5	197.2	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	6.6	Inc. seg. avg.	0.885	Bits/sample: 2x2	ion window (TEC)	0.00 0.00
amp/frq (%)	70.9	11.5	Inc. frq. avg.	1.764	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011

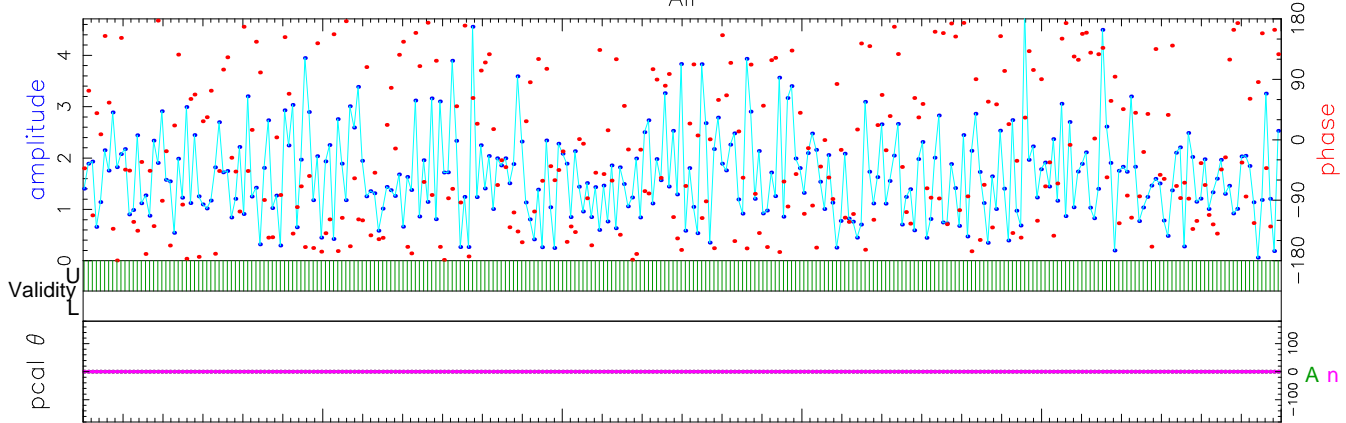
A: az 344.9 el 30.6 pa 163.1 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 3166.793 -8444.654 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/An..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/An.W.34.1T5GR2

Fringe quality 8



SNR 8.5
Int time 299.973
Amp 1.570
Phase 137.0
PFD 2.7e-10
Delays (us)
SBD -0.813375
MBD 0.000006
Fringe rate (Hz)
0.795725
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



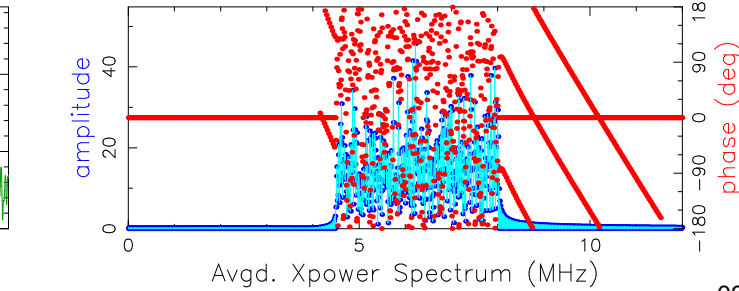
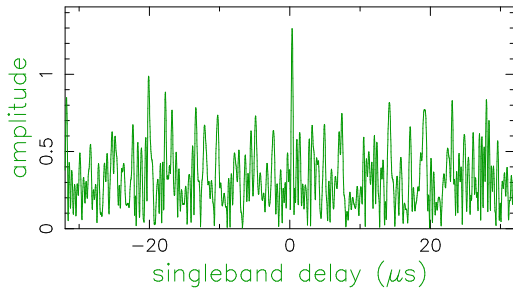
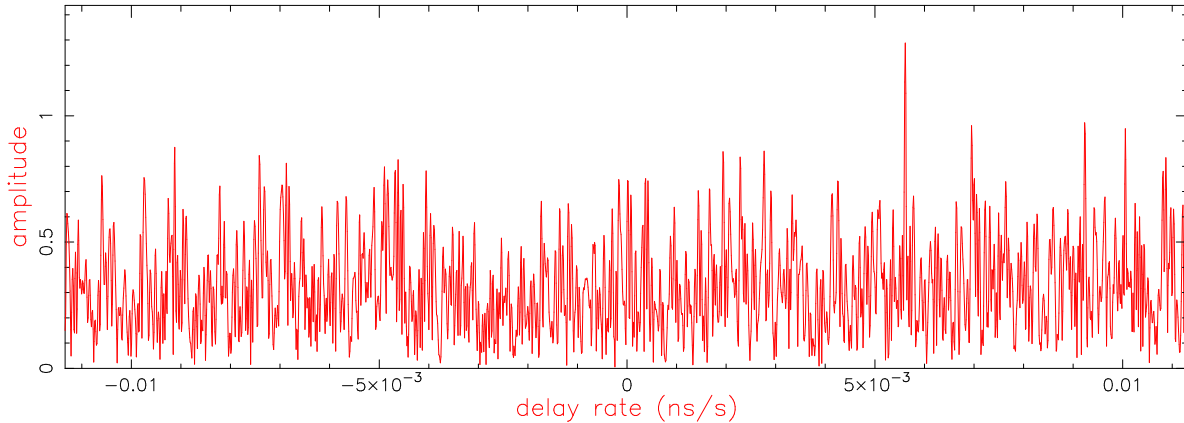
86227.00
-138.0
0.5
1498.0
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UR

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)	-1.22463777150E+04	Apriori delay (usec)	-1.22455643447E+04	Resid mbdelay (usec)	6.05815E-06	+/-	5.4E-03
Sband delay (usec)	-1.22463777194E+04	Apriori clock (usec)	-2.1130864E+03	Resid sbdelay (usec)	-8.13375E-01	+/-	5.4E-03
Phase delay (usec)	-1.22455643492E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.44934E-06	+/-	4.3E-07
Delay rate (us/s)	-4.56438828318E-01	Apriori rate (us/s)	-4.56448065890E-01	Resid rate (us/s)	9.23757E-06	+/-	2.5E-09
Total phase (deg)	261.7	Apriori accel (us/s/s)	-1.33747602156E-05	Resid phase (deg)	137.0	+/-	13.4

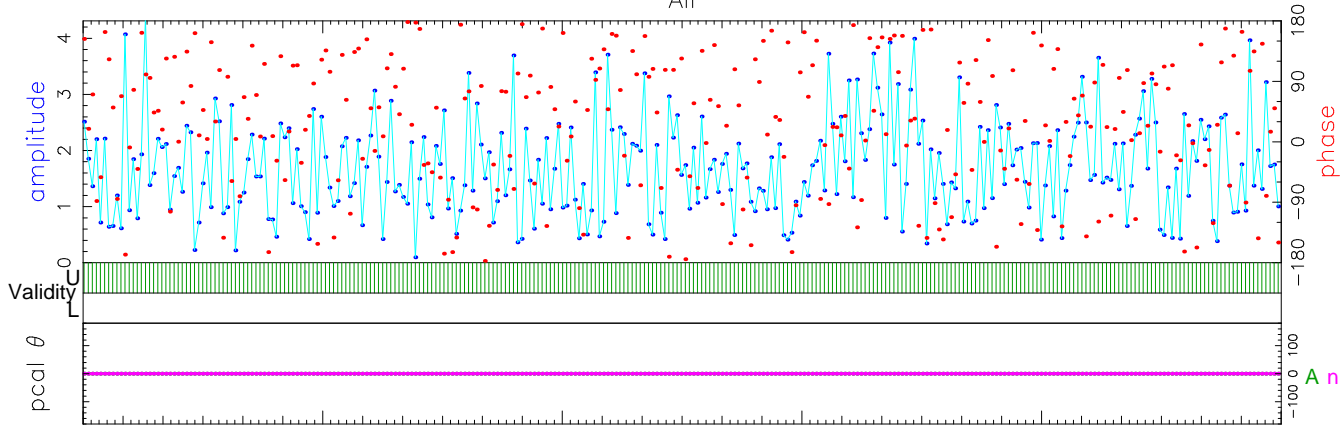
ph/seg (deg)	RMS 94.2	Theor. 115.1	Amplitude Search (2048X8)	1.570 +/- 0.184	1.148	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.4	200.8	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.740	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.560	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) 3166.793 -8444.654		nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.4
Int time 299.973
Amp 1.437
Phase -152.1
PFD 1.0e-13
Delays (us)
SBD 0.329369
MBD 0.000006
Fringe rate (Hz)
0.482991
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
83.6
0.4
1552.8
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UL

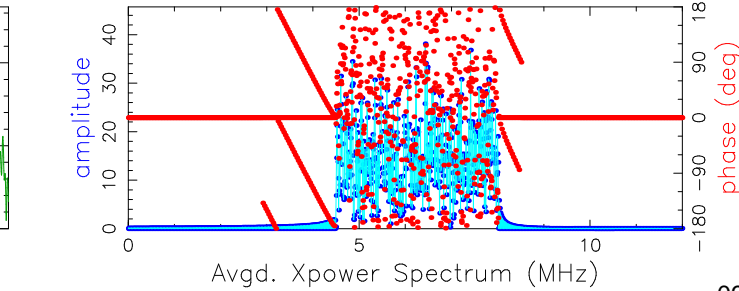
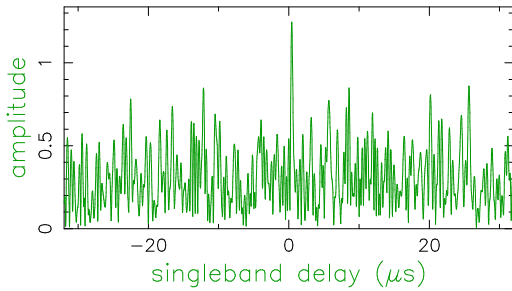
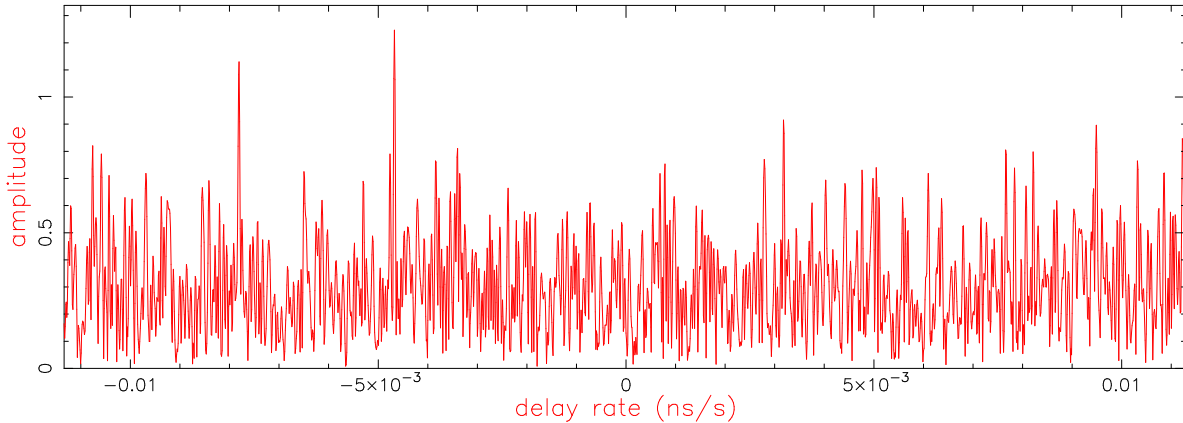
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22452349755E+04	Apriori delay (usec)	-1.22455643447E+04	Resid mbdelay (usec)	6.05351E-06	+/-	4.9E-03
Sband delay (usec)	-1.22452349754E+04	Apriori clock (usec)	-2.1130864E+03	Resid sbdelay (usec)	3.29369E-01	+/-	4.9E-03
Phase delay (usec)	-1.22455643420E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.69451E-06	+/-	3.9E-07
Delay rate (us/s)	-4.56442458842E-01	Apriori rate (us/s)	-4.56448065890E-01	Resid rate (us/s)	5.60705E-06	+/-	2.3E-09
Total phase (deg)	-27.4	Apriori accel (us/s/s)	-1.33747602156E-05	Resid phase (deg)	-152.1	+/-	12.2

ph/seg (deg)	RMS 90.9	Theor. 104.3	Amplitude Search (2048X8)	1.437 +/- 0.153	1.260	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.9	182.0	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.705	24	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.9	10.6	Inc. frq. avg.	1.420	48	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

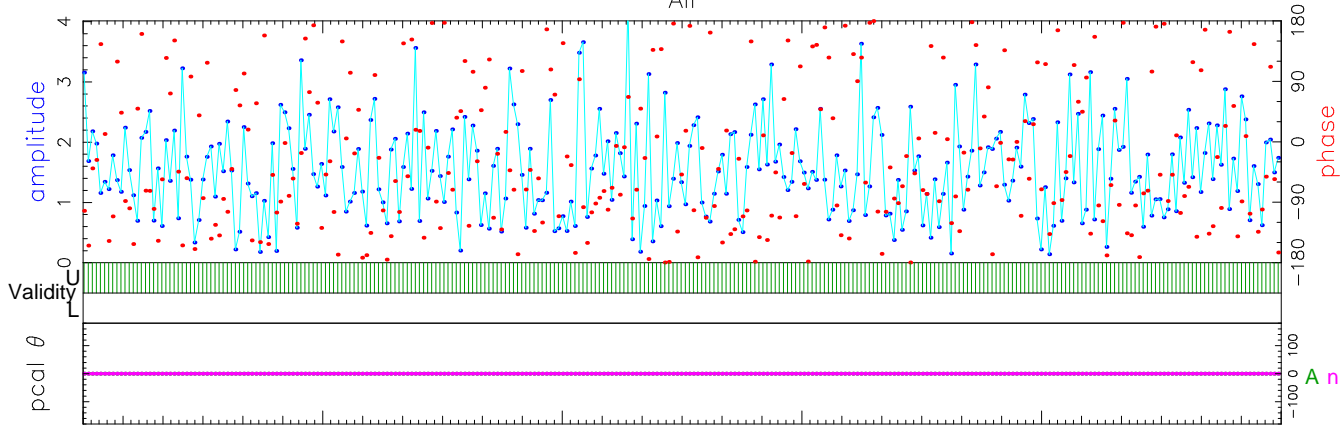
A: az 344.9 el 30.6 pa 163.1 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 3166.793 -8444.654 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/An..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/An.W.72.1T5GR2

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.338
Phase -163.5
PFD 2.9e-12
Delays (us)
SBD 0.415635
MBD -0.000006
Fringe rate (Hz)
-0.402459
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-105.8
0.4
1557.0
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UL

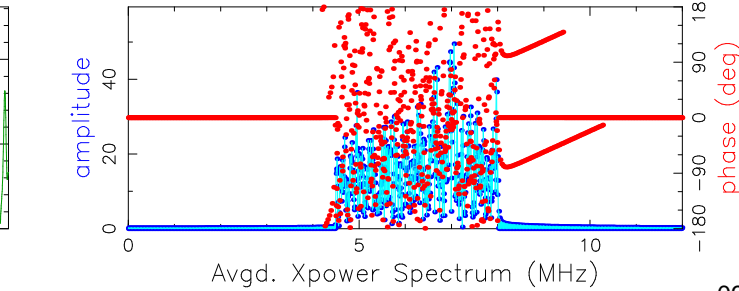
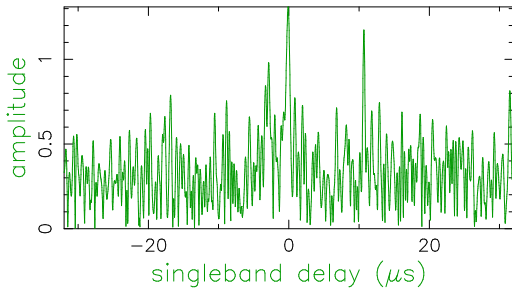
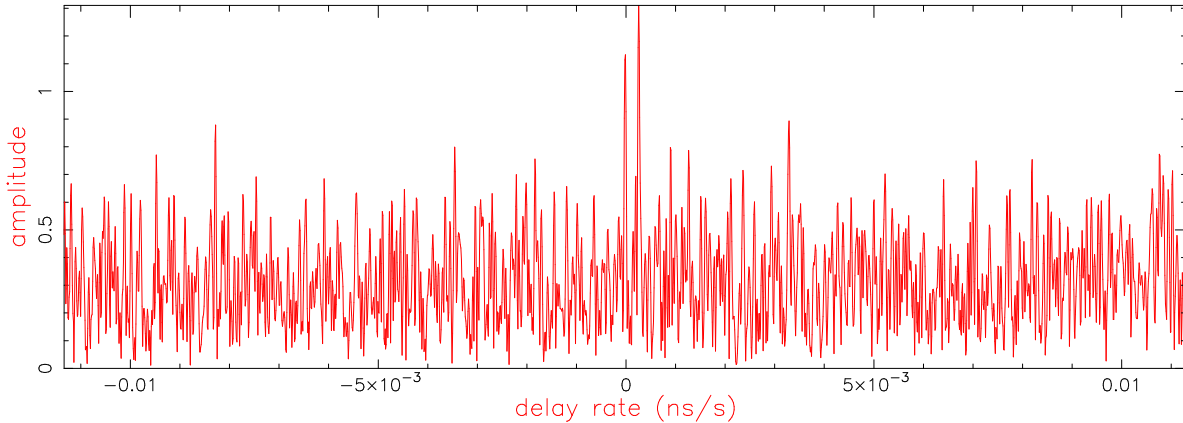
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22451487154E+04	Apriori delay (usec)	-1.22455643447E+04	Resid mbdelay (usec)	-6.16030E-06	+/-	5.1E-03
Sband delay (usec)	-1.22451487100E+04	Apriori clock (usec)	-2.1130864E+03	Resid sbdelay (usec)	4.15635E-01	+/-	5.1E-03
Phase delay (usec)	-1.22455643481E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.41257E-06	+/-	4.1E-07
Delay rate (us/s)	-4.56452738037E-01	Apriori rate (us/s)	-4.56448065890E-01	Resid rate (us/s)	-4.67215E-06	+/-	2.4E-09
Total phase (deg)	-38.8	Apriori accel (us/s/s)	-1.33747602156E-05	Resid phase (deg)	-163.5	+/-	12.7

ph/seg (deg)	88.2	Theor.	108.5	Amplitude	1.338 +/- 0.148	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.3	Search (2048X8)	1.238	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.598	Inc. frq. avg.	1.330	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.330	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				nlags: 1536	t_cohere infinite		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 3166.793 -8444.654 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/An..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/An.W.8.1T5GR2

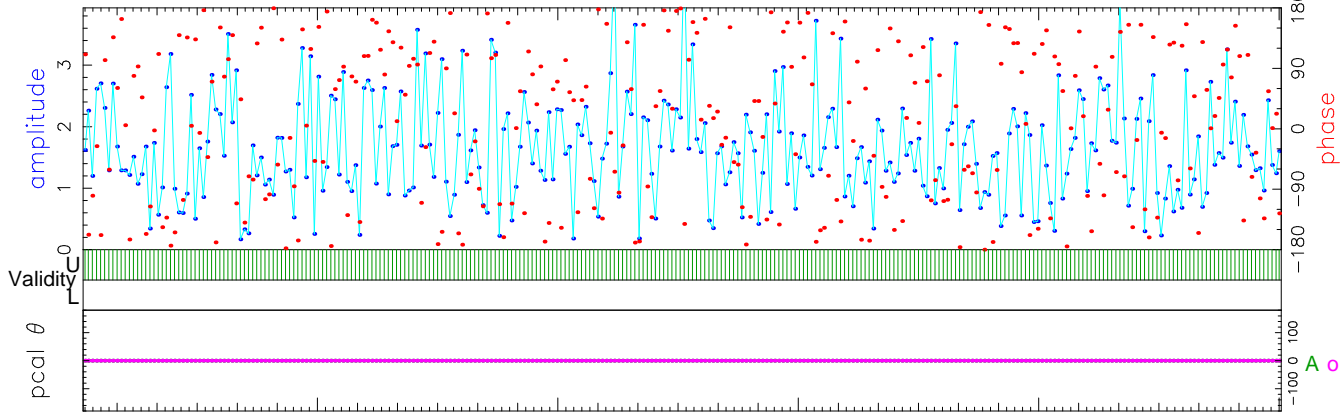
Fringe quality 8



SNR 9.5
Int time 297.975
Amp 1.311
Phase 251.0
PFD 5.4e-14
Delays (us)
SBD -0.095228
MBD 0.000004
Fringe rate (Hz)
0.022103
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
148.2
0.4
1532.4
U/L 583/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o 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)	-1.00971483132E+04	Apriori delay (usec)	-1.00970530805E+04	Resid mbdelay (usec)	4.35154E-06	+/-	4.9E-03
Sband delay (usec)	-1.00971483085E+04	Apriori clock (usec)	-2.1113574E+03	Resid sbdelay (usec)	-9.52280E-02	+/-	4.9E-03
Phase delay (usec)	-1.00970530757E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.77835E-06	+/-	3.9E-07
Delay rate (us/s)	-9.05438313439E-01	Apriori rate (us/s)	-9.05438570029E-01	Resid rate (us/s)	2.56589E-07	+/-	2.3E-09
Total phase (deg)	122.7	Apriori accel (us/s/s)	-2.08981347711E-05	Resid phase (deg)	251.0	+/-	12.1

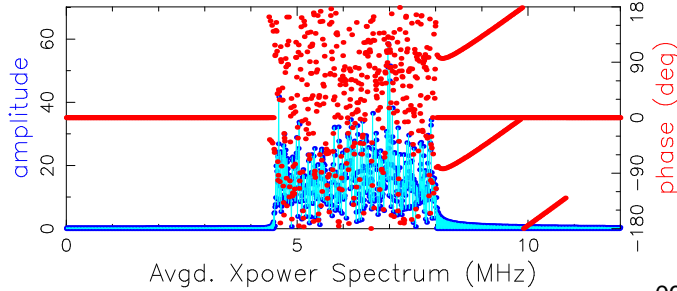
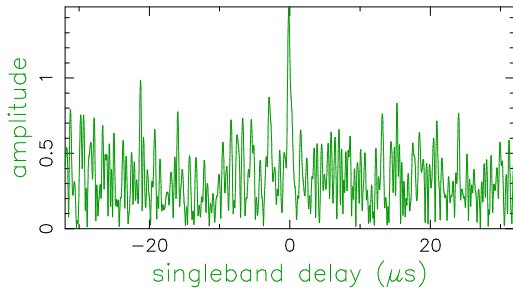
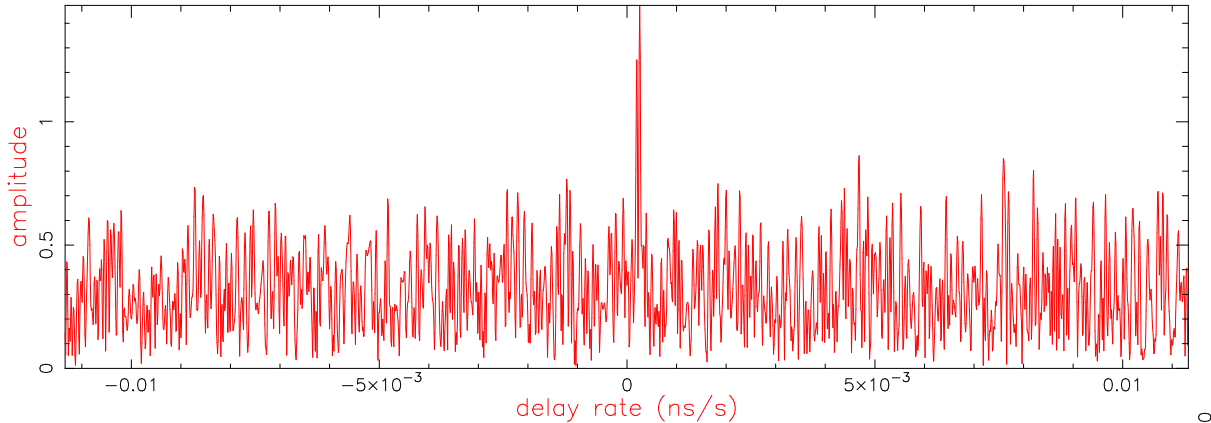
ph/seg (deg)	RMS 90.9	Theor. 103.4	Amplitude Search (2048X8)	1.311 +/- 0.138	1.303	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.1	180.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.631	0.631	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.6	Inc. frq. avg.	1.303	1.303	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 6276.048 -8418.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ao..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ao.W.17.1T5GR2

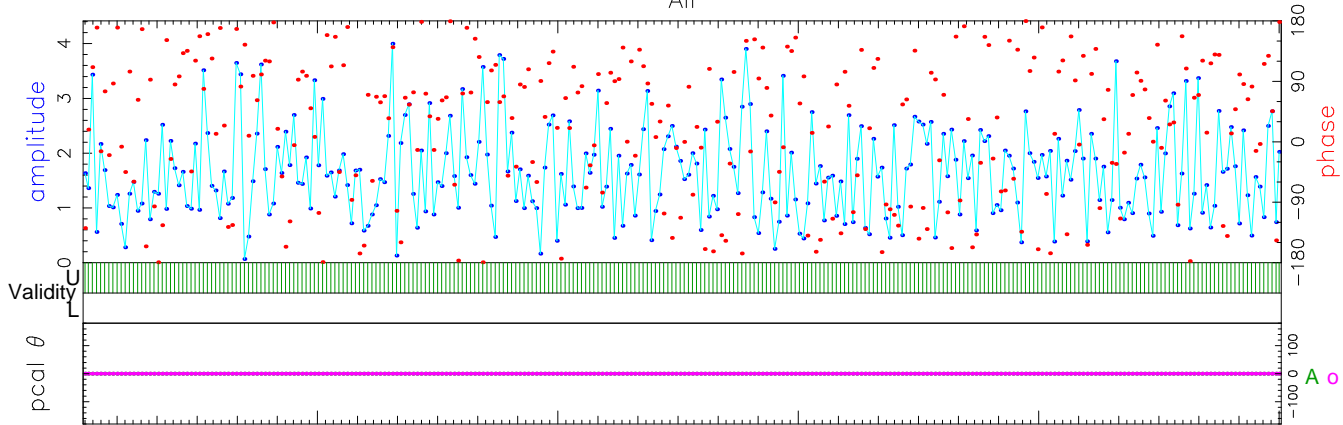
Fringe quality 7

SNR 10.6
Int time 297.975
Amp 1.472
Phase 247.1
PFD 4.3e-19
Delays (us)
SBD -0.154073
MBD 0.000007
Fringe rate (Hz)
0.022307
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
101.3
0.4
1529.6
U/L 583/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UR

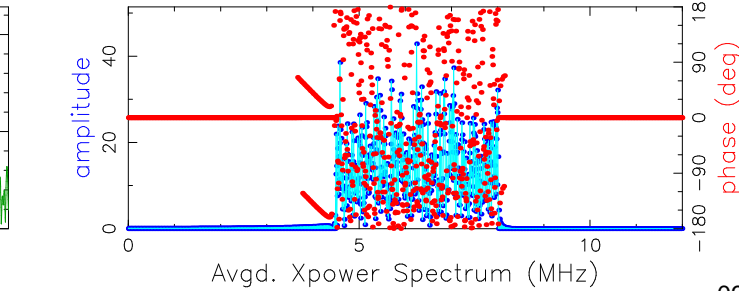
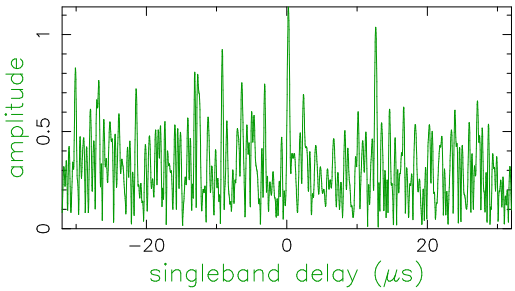
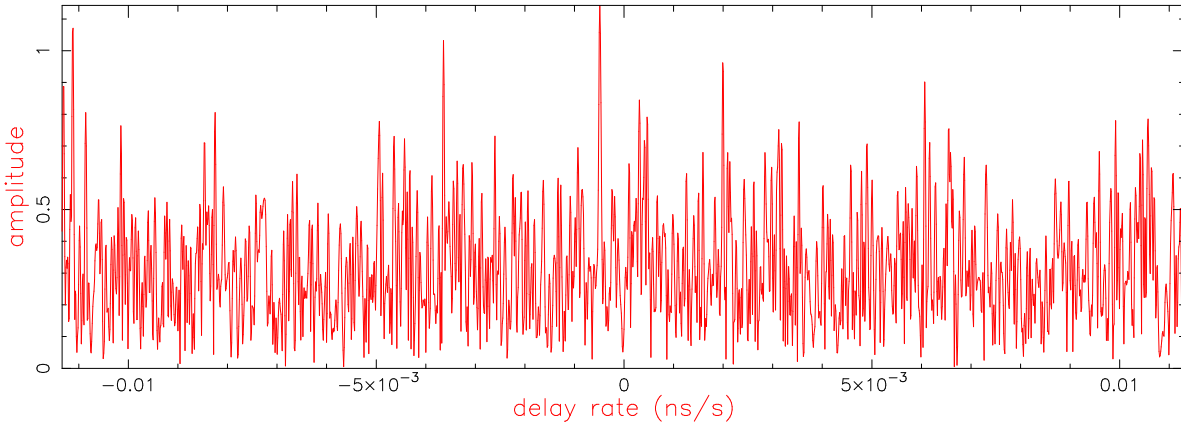
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00972071551E+04	Apriori delay (usec)	-1.00970530805E+04	Resid mbdelay (usec)	7.14110E-06	+/-	4.3E-03
Sband delay (usec)	-1.00972071539E+04	Apriori clock (usec)	-2.1113574E+03	Resid sbdelay (usec)	-1.54073E-01	+/-	4.3E-03
Phase delay (usec)	-1.00970530773E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.26518E-06	+/-	3.5E-07
Delay rate (us/s)	-9.05438311061E-01	Apriori rate (us/s)	-9.05438570029E-01	Resid rate (us/s)	2.58968E-07	+/-	2.0E-09
Total phase (deg)	118.8	Apriori accel (us/s/s)	-2.08981347711E-05	Resid phase (deg)	247.1	+/-	10.8

ph/seg (deg)	RMS 89.5	Theor. 92.0	Amplitude Search (2048X8)	1.472 +/- 0.138	1.431	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	57.7	160.7	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	5.4	Inc. seg. avg.	0.721	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	9.4	Inc. frq. avg.	1.464				ion window (TEC)	0.00	0.00

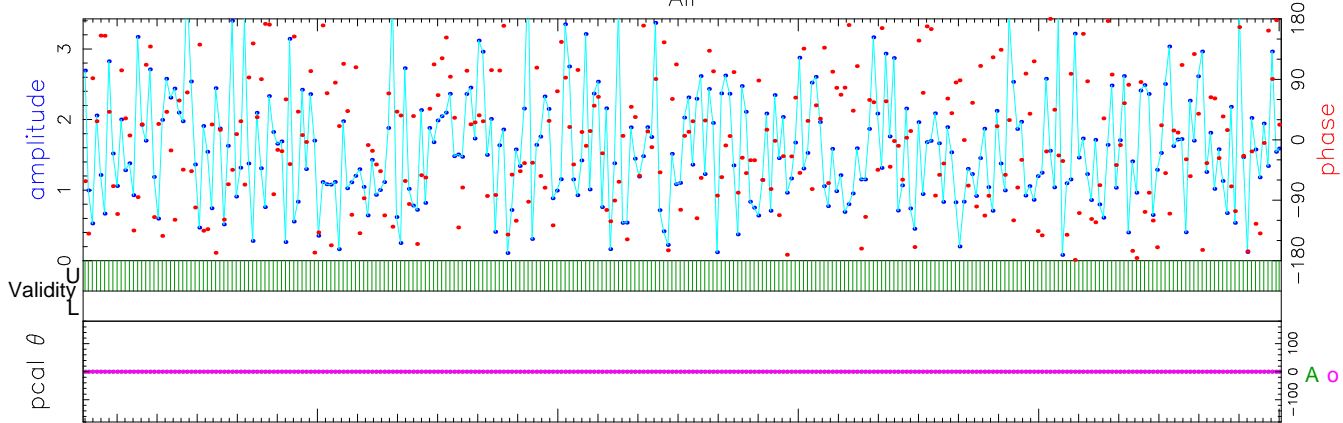
A: az 344.9 el 30.6 pa 163.1 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 6276.048 -8418.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ao..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ao.W.33.1T5GR2

Fringe quality 8



SNR 8.3
Int time 297.975
Amp 1.143
Phase -239.9
PFD 2.6e-09
Delays (us)
SBD 0.226100
MBD -0.000006
Fringe rate (Hz)
-0.042198
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



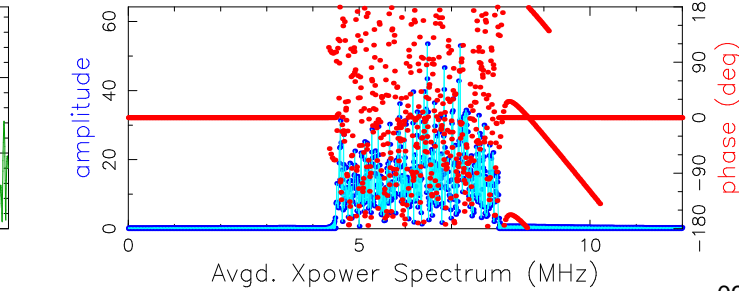
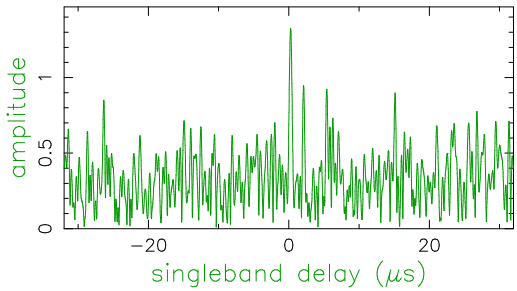
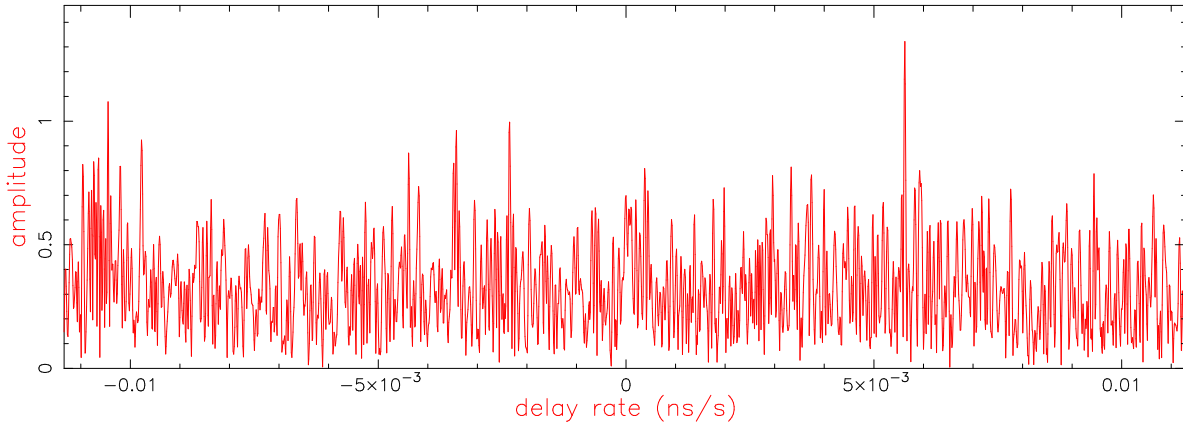
86227.00
1.6
0.3
1547.9
U/L 583/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UR

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)	-1.00968269854E+04	Apriori delay (usec)	-1.00970530805E+04	Resid mbdelay (usec)	-5.77304E-06	+/- 5.6E-03
Sband delay (usec)	-1.00968269805E+04	Apriori clock (usec)	-2.1113574E+03	Resid sbdelay (usec)	2.26100E-01	+/- 5.6E-03
Phase delay (usec)	-1.00970530805E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.16310E-08	+/- 4.5E-07
Delay rate (us/s)	-9.05439059906E-01	Apriori rate (us/s)	-9.05438570029E-01	Resid rate (us/s)	-4.89878E-07	+/- 2.6E-09
Total phase (deg)	-8.2	Apriori accel (us/s/s)	-2.08981347711E-05	Resid phase (deg)	-239.9	+/- 13.9

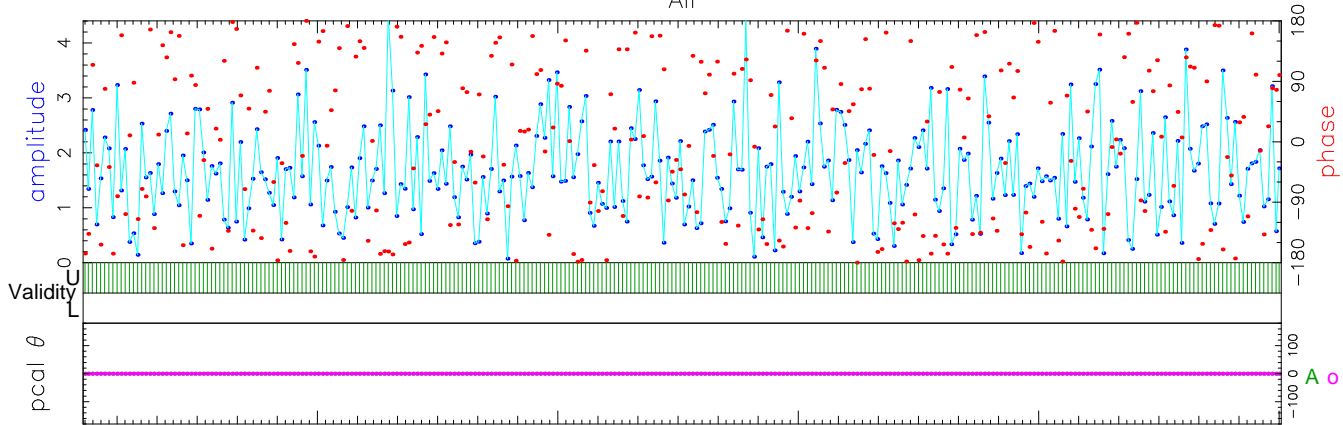
ph/seg (deg)	RMS 93.1	Theor. 118.6	Amplitude Search (2048X8)	1.143 +/- 0.138	1.131	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.9	207.1	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.507	24	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.134	48	Data rate (Mb/s): 48	dr window (ns/s) -0.011 0.011
			A: az 344.9 el 30.6 pa 163.1		u,v (fr/asec) 6276.048 -8418.270		ion window (TEC) 0.00 0.00
			o: az 85.2 el 61.8 pa -74.4		simultaneous interpolator		

Fringe quality 8



SNR 9.6
Int time 297.975
Amp 1.468
Phase -293.3
PFD 2.0e-14
Delays (us)
SBD 0.255989
MBD 0.000005
Fringe rate (Hz)
0.483630
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
164.3
0.4
1549.3
U/L 583/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UL

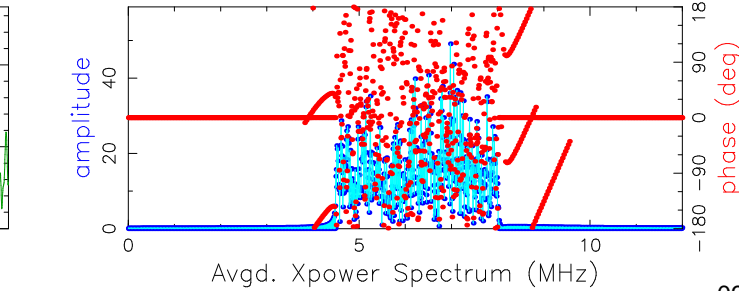
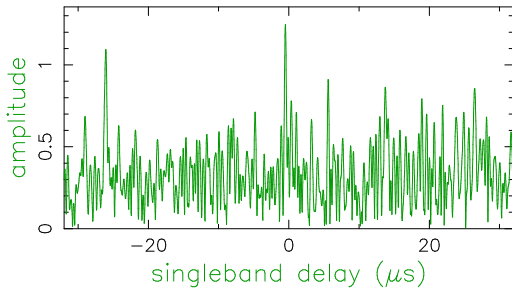
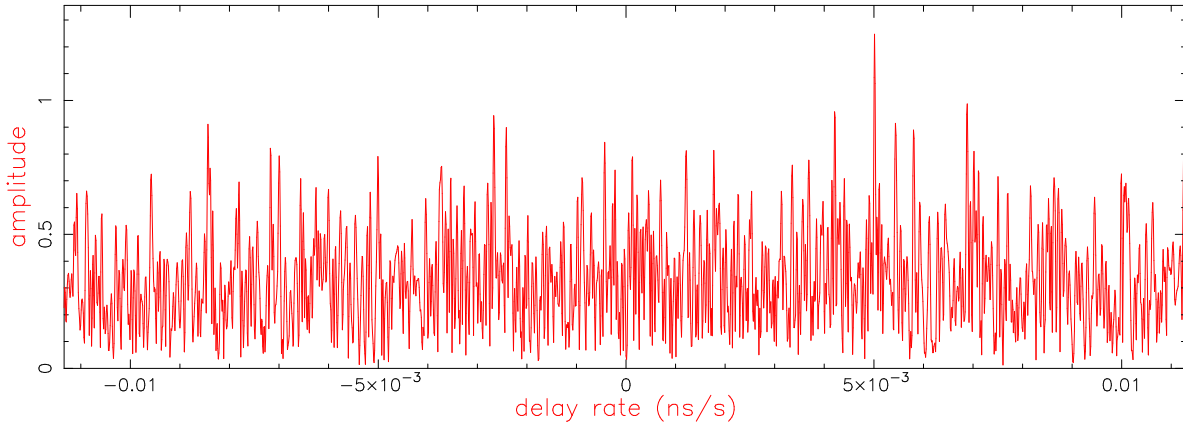
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00967970882E+04	Apriori delay (usec)	-1.00970530805E+04	Resid mbdelay (usec)	5.17508E-06	+/-	4.8E-03
Sband delay (usec)	-1.00967970912E+04	Apriori clock (usec)	-2.1113574E+03	Resid sbdelay (usec)	2.55989E-01	+/-	4.8E-03
Phase delay (usec)	-1.00970530752E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.29666E-06	+/-	3.9E-07
Delay rate (us/s)	-9.05432955566E-01	Apriori rate (us/s)	-9.05438570029E-01	Resid rate (us/s)	5.61446E-06	+/-	2.2E-09
Total phase (deg)	-61.6	Apriori accel (us/s/s)	-2.08981347711E-05	Resid phase (deg)	-293.3	+/-	12.0

ph/seg (deg)	RMS 92.8	Theor. 102.3	Amplitude Search (2048X8)	1.468 +/- 0.153	1.319	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.1	178.5	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	6.0	Inc. seg. avg.	0.714	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	10.4	Inc. frq. avg.	1.457	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				u,v (fr/asec) 6276.048 -8418.270	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

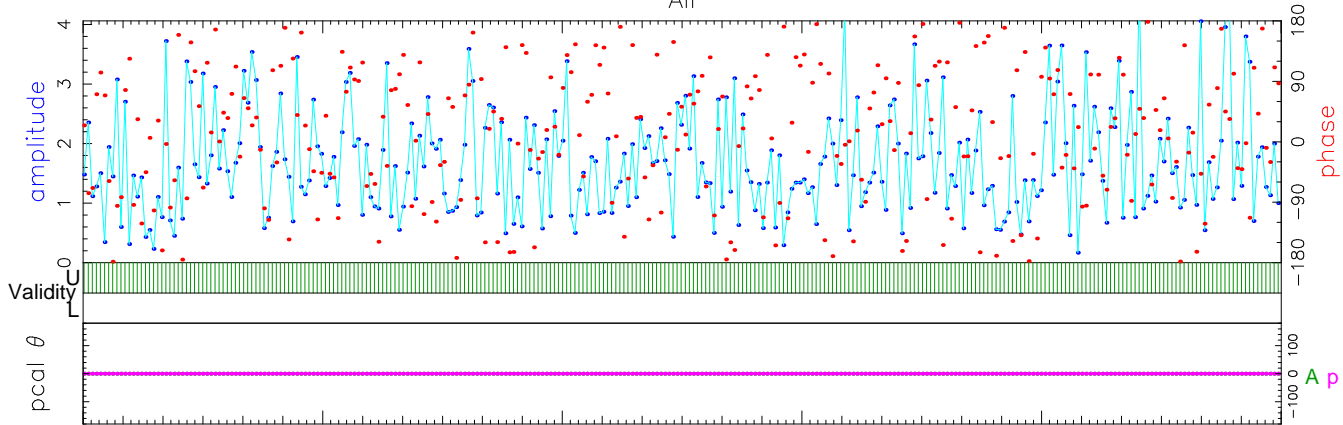
A: az 344.9 el 30.6 pa 163.1 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 6276.048 -8418.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ao..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ao.W.71.1T5GR2

Fringe quality 8



SNR 9.1
Int time 299.974
Amp 1.355
Phase 154.8
PFD 2.6e-12
Delays (us)
SBD -0.486372
MBD 0.000007
Fringe rate (Hz)
0.431995
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
41.4
0.4
1513.7
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UR

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)	-1.12861946159E+04	Apriori delay (usec)	-1.12857082435E+04	Resid mbdelay (usec)	6.64952E-06	+/-	5.1E-03
Sband delay (usec)	-1.12861946155E+04	Apriori clock (usec)	-2.1131335E+03	Resid sbdelay (usec)	-4.86372E-01	+/-	5.1E-03
Phase delay (usec)	-1.12857082422E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.33625E-06	+/-	4.1E-07
Delay rate (us/s)	-7.63039711125E-01	Apriori rate (us/s)	-7.63044726156E-01	Resid rate (us/s)	5.01503E-06	+/-	2.4E-09
Total phase (deg)	119.4	Apriori accel (us/s/s)	-1.19482574261E-05	Resid phase (deg)	154.8	+/-	12.7

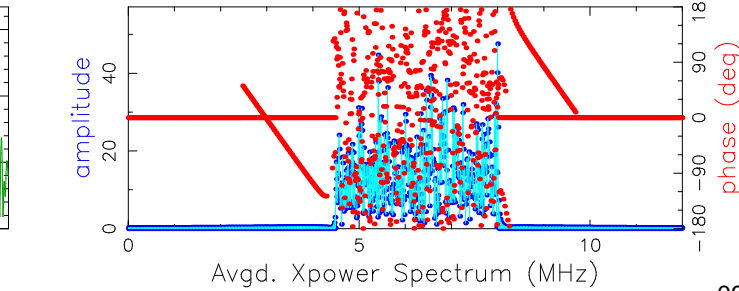
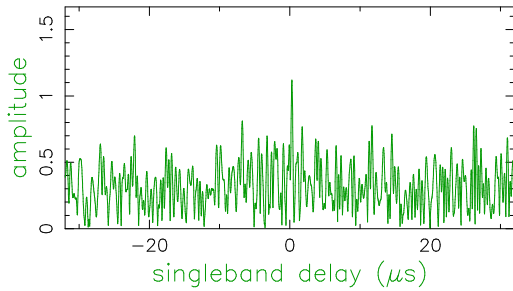
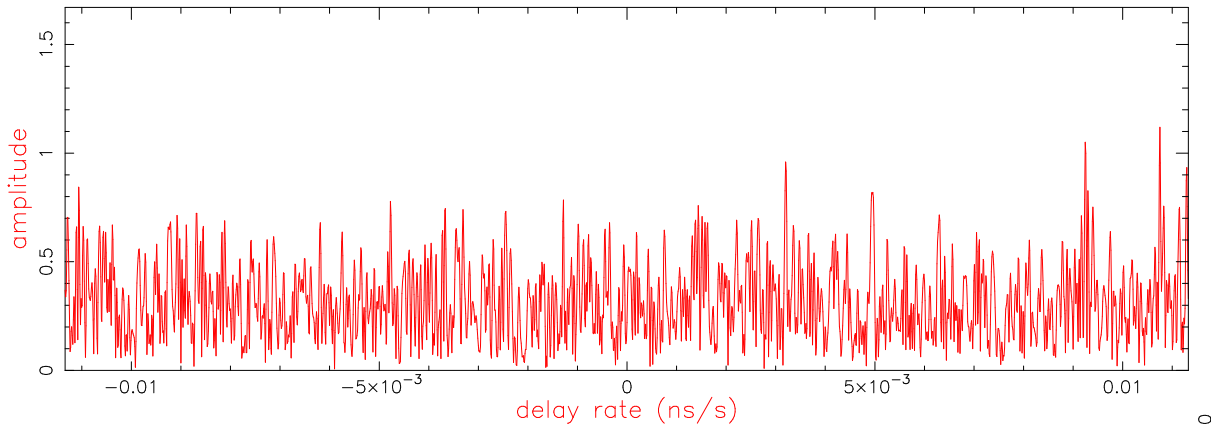
ph/seg (deg)	RMS 92.5	Theor. 108.4	Amplitude Search (2048X8)	1.355 +/- 0.150	1.240	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.8	189.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.661	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.345	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 5295.656 -7629.415 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ap..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ap.W.21.1T5GR2

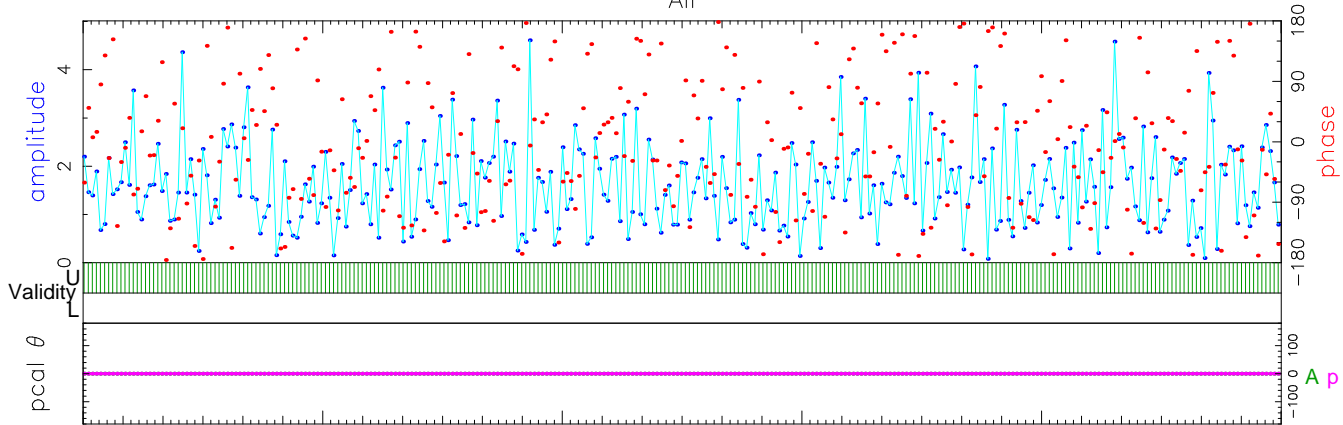
Fringe quality 8

SNR 8.1
Int time 299.974
Amp 1.671
Phase -223.4
PFD 8.0e-09
Delays (us)
SBD 0.293756
MBD 0.000007
Fringe rate (Hz)
0.925271
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



Validity
pcal θ
86227.00
-23.2
0.5
1551.1
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UR

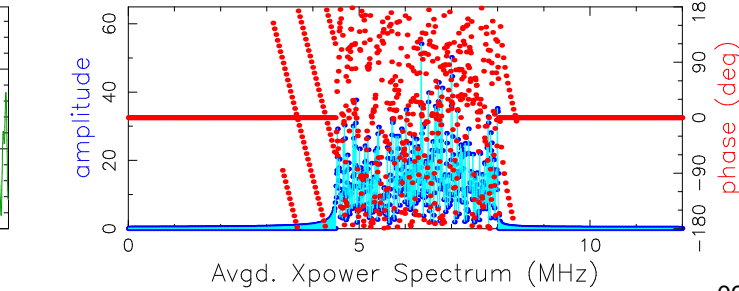
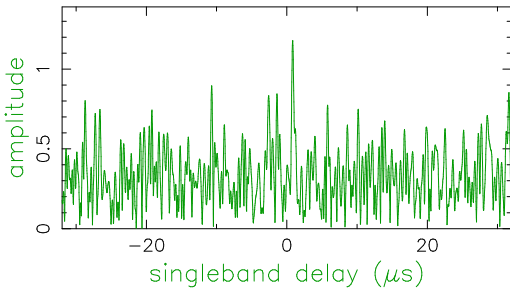
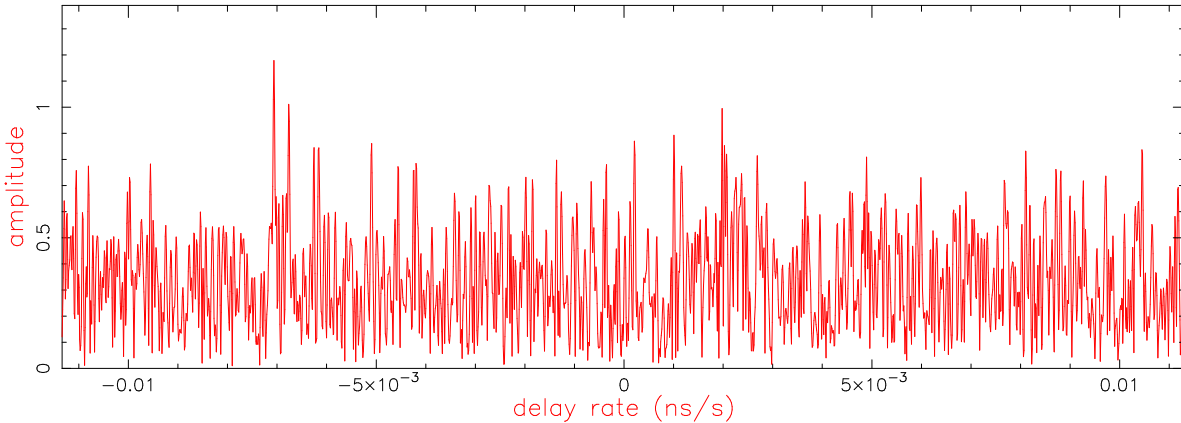
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.12854144884E+04	Apriori delay (usec)	-1.12857082435E+04	Resid mbdelay (usec)	7.24309E-06	+/- 5.7E-03
Sband delay (usec)	-1.12854144875E+04	Apriori clock (usec)	-2.1131335E+03	Resid sbdelay (usec)	2.93756E-01	+/- 5.7E-03
Phase delay (usec)	-1.12857082443E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-7.49296E-07	+/- 4.6E-07
Delay rate (us/s)	-7.63033984677E-01	Apriori rate (us/s)	-7.63044726156E-01	Resid rate (us/s)	1.07415E-05	+/- 2.6E-09
Total phase (deg)	-258.9	Apriori accel (us/s/s)	-1.19482574261E-05	Resid phase (deg)	-223.4	+/- 14.1

ph/seg (deg)	RMS 95.6	Theor. 120.9	Amplitude 1.671 +/- 0.206	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	92.5	211.0	Search (2048X8) 1.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. seg. avg. 0.755	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.658	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

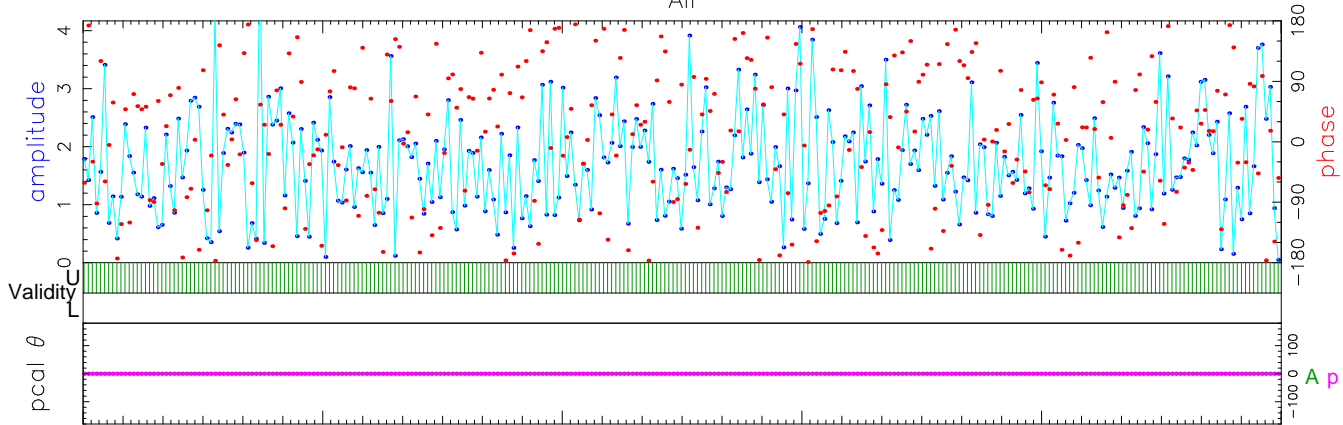
A: az 344.9 el 30.6 pa 163.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 5295.656 -7629.415 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ap..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ap.W.27.1T5GR2

Fringe quality 8



SNR 8.6
Int time 299.974
Amp 1.390
Phase -123.2
PFD 2.1e-10
Delays (us)
SBD 0.833324
MBD -0.000004
Fringe rate (Hz)
-0.607503
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
56.5
0.4
1577.0
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p 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)	-1.12848749242E+04	Apriori delay (usec)	-1.12857082435E+04	Resid mbdelay (usec)	-4.35179E-06	+/-	5.4E-03
Sband delay (usec)	-1.12848749195E+04	Apriori clock (usec)	-2.1131335E+03	Resid sbdelay (usec)	8.33324E-01	+/-	5.4E-03
Phase delay (usec)	-1.12857082417E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.82276E-06	+/-	4.3E-07
Delay rate (us/s)	-7.63051778661E-01	Apriori rate (us/s)	-7.63044726156E-01	Resid rate (us/s)	-7.05250E-06	+/-	2.5E-09
Total phase (deg)	-158.6	Apriori accel (us/s/s)	-1.19482574261E-05	Resid phase (deg)	-123.2	+/-	13.4

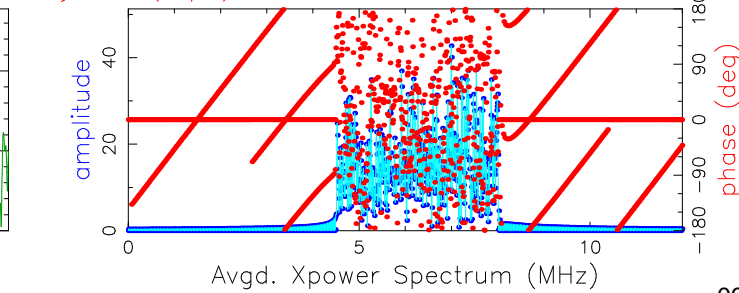
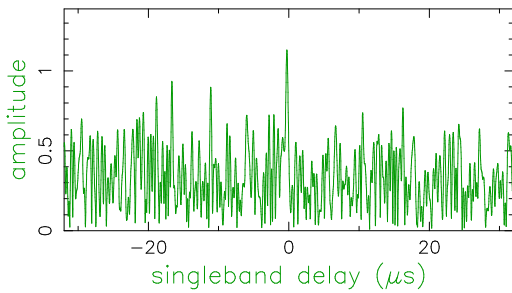
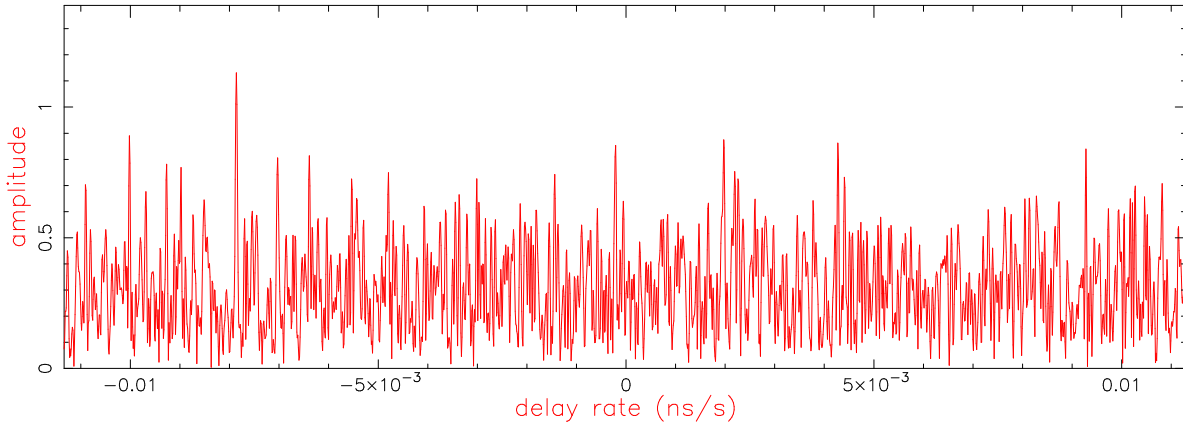
ph/seg (deg)	RMS 94.8	Theor. 114.7	Amplitude Search (2048X8)	1.390 +/- 0.163	1.169	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.4	200.2	Interp.	0.000	1.169	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.672	0.672	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.381	1.381	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 5295.656 -7629.415 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ap..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ap.W.40.1T5GR2

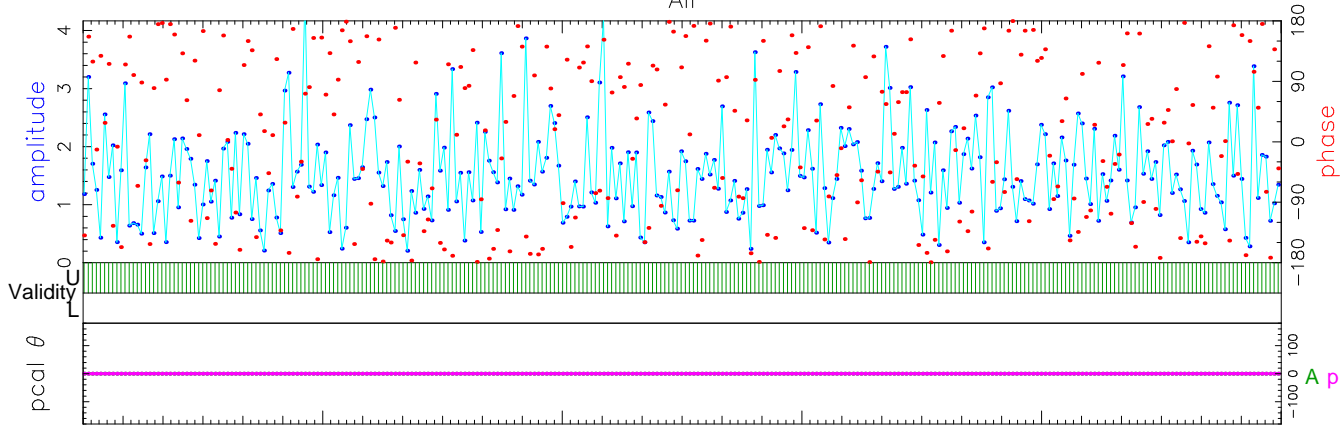
Fringe quality 8

SNR 8.2
Int time 299.974
Amp 1.389
Phase 58.9
PFD 3.9e-09
Delays (us)
SBD -0.272747
MBD -0.000007
Fringe rate (Hz)
-0.675956
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



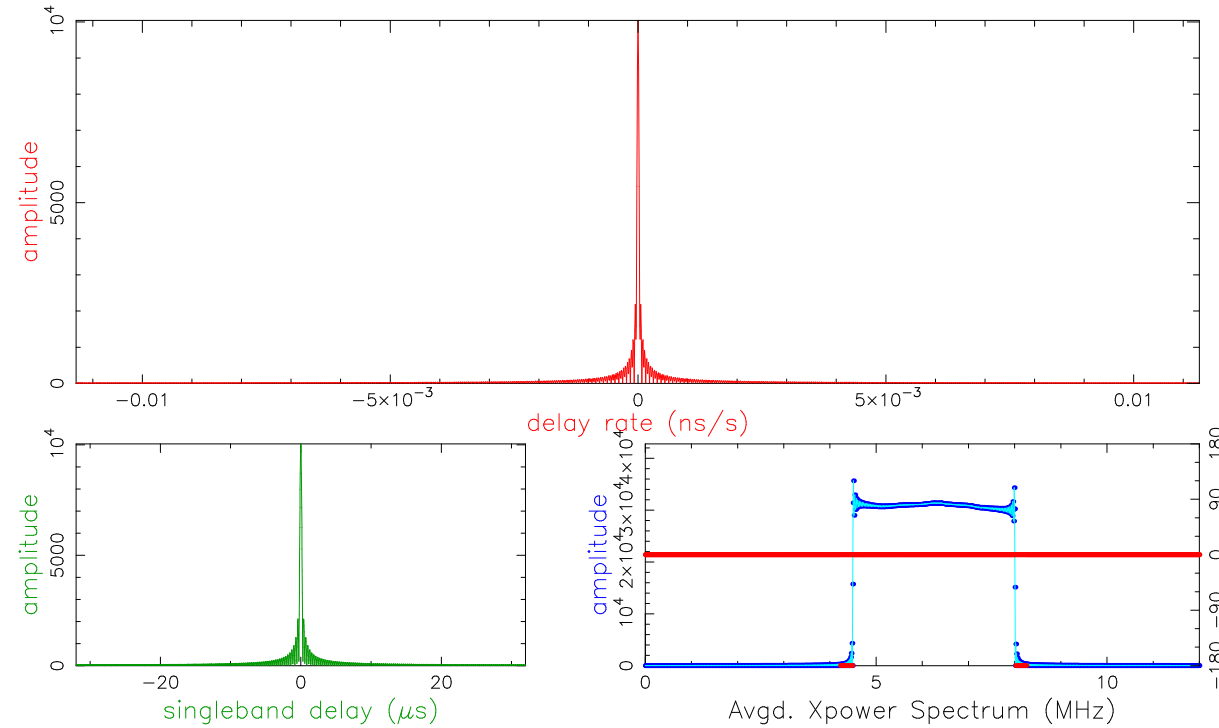
86227.00
156.5
0.4
1523.9
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UL

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)	-1.12859809956E+04	Apriori delay (usec)	-1.12857082435E+04	Resid mbdelay (usec)	-6.90670E-06	+/- 5.6E-03
Sband delay (usec)	-1.12859809902E+04	Apriori clock (usec)	-2.1131335E+03	Resid sbdelay (usec)	-2.72747E-01	+/- 5.6E-03
Phase delay (usec)	-1.12857082385E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.04632E-06	+/- 4.5E-07
Delay rate (us/s)	-7.63052573338E-01	Apriori rate (us/s)	-7.63044726156E-01	Resid rate (us/s)	-7.84718E-06	+/- 2.6E-09
Total phase (deg)	23.4	Apriori accel (us/s/s)	-1.19482574261E-05	Resid phase (deg)	58.9	+/- 14.0

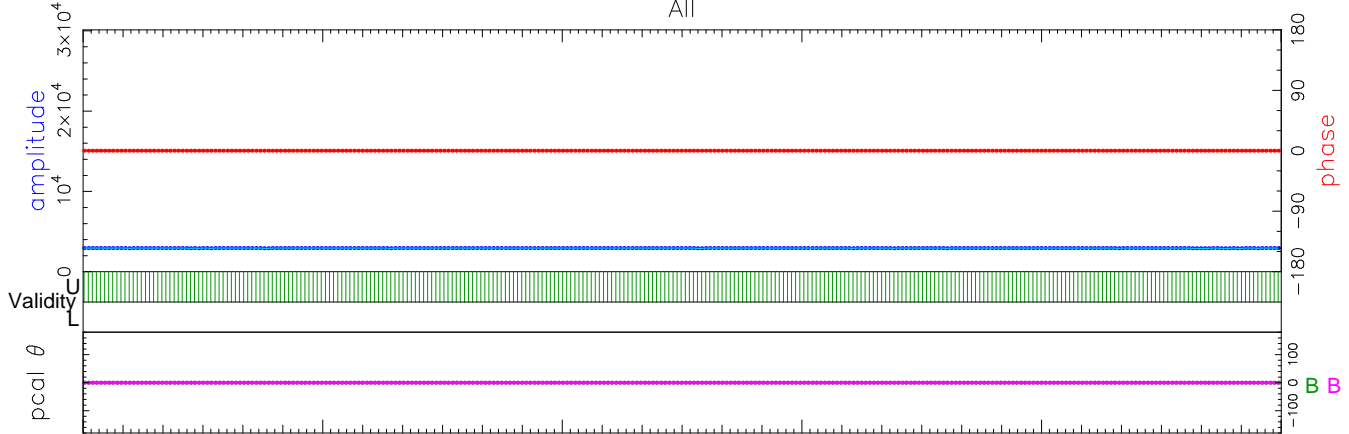
ph/seg (deg)	RMS 91.3	Theor. 119.6	Amplitude Search (2048X8)	1.389 +/- 0.169	1.123	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.2	208.7	Interp.	0.000	1.123	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.594	1.123	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.379	1.123	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 344.9 el 30.6 pa 163.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 5295.656 -7629.415 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Ap..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Ap.W.5.1T5GR2



Fringe quality 5
SNR 72811.6
Int time 299.979
Amp 10041.586
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2941.9
1537.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UL

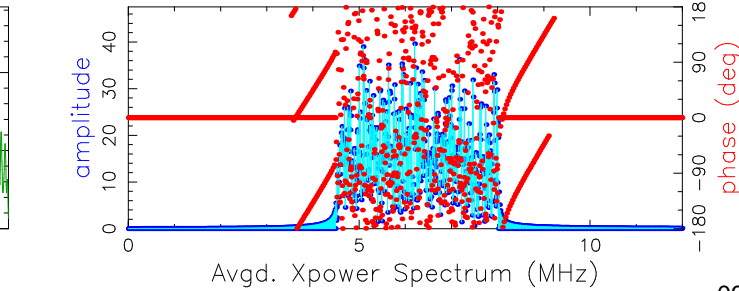
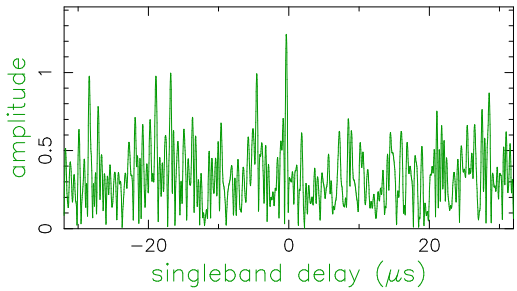
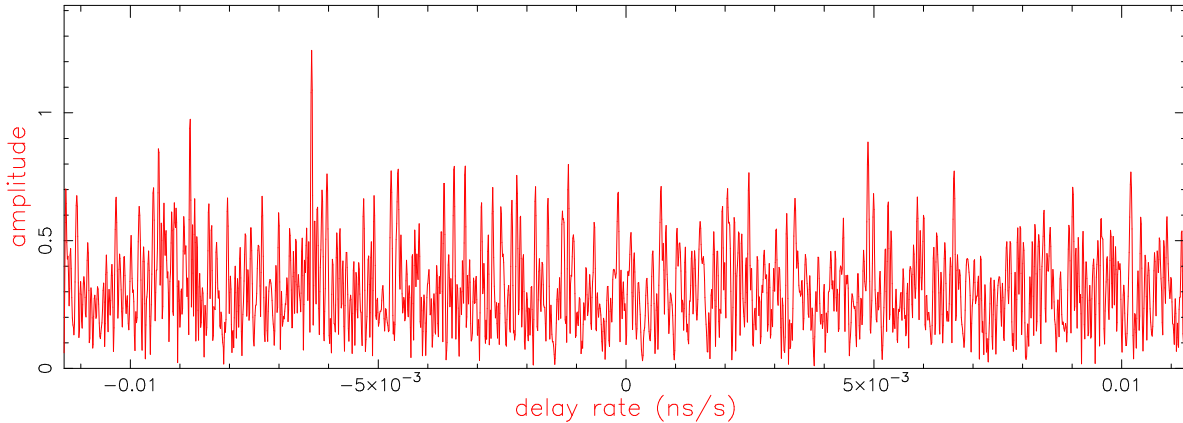
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.68267480024E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.68267E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	6.13523051337E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.13523E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10041.586 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10041.586	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.	2941.871	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10041.586	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

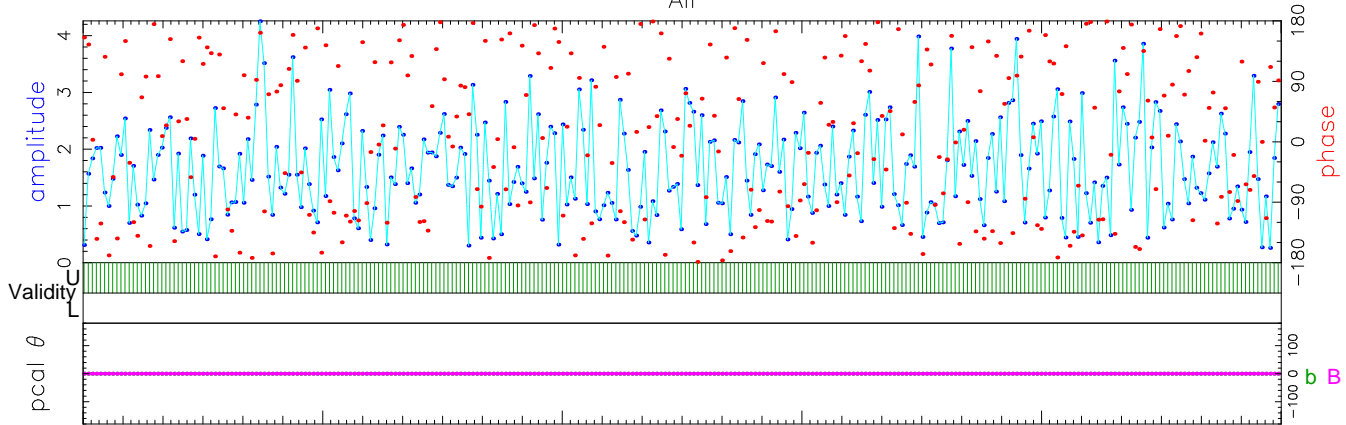
B: az 293.8 el 25.6 pa 44.9 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/BB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/BB.W.13.1T5GR2

Fringe quality 8



SNR 9.0
Int time 299.975
Amp 1.421
Phase 239.1
PFD 3.2e-12
Delays (us)
SBD -0.358600
MBD -0.000004
Fringe rate (Hz)
-0.545676
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



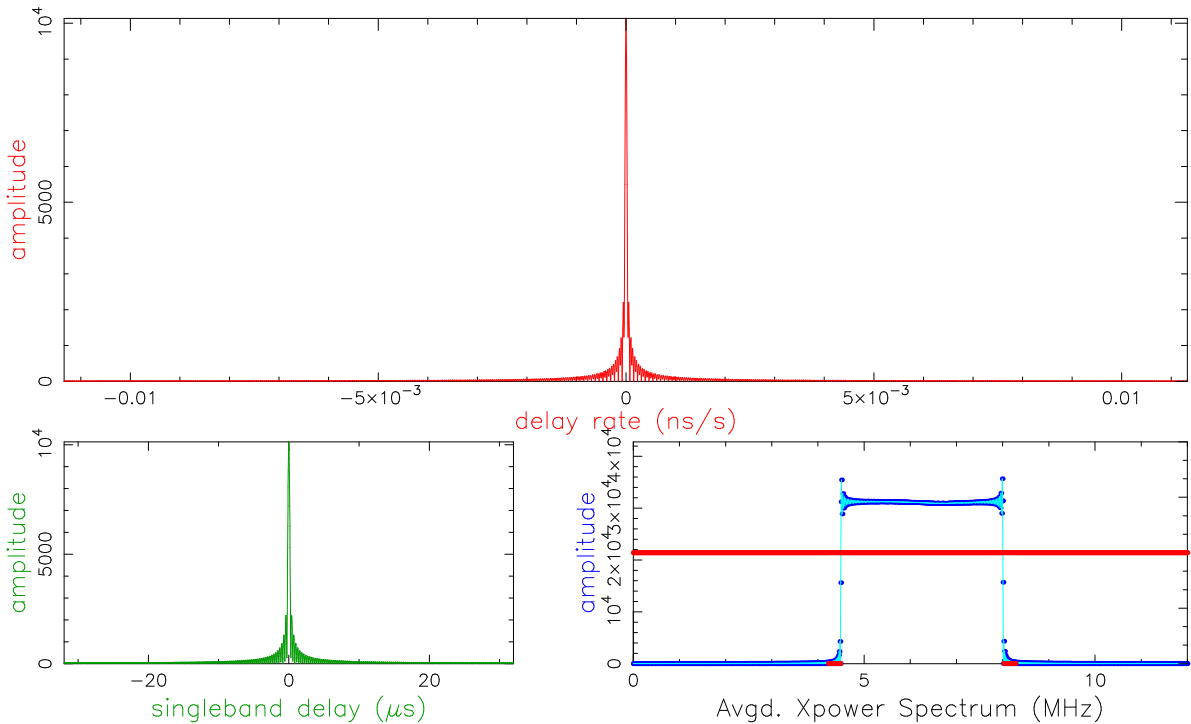
86227.00
167.8
0.4
1519.8
U/L 586/0
b 0
B 0
b:B 0:0
B:B 0:0
b 1000
B 1000
b W03UL
B W03UL

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

Group delay (usec)(sbd)	9.44639497821E+03	Apriori delay (usec)	9.44675358254E+03	Resid mbdelay (usec)	-4.35773E-06	+/-	5.1E-03
Sband delay (usec)	9.44639498254E+03	Apriori clock (usec)	1.9077345E+01	Resid sbdelay (usec)	-3.58600E-01	+/-	5.1E-03
Phase delay (usec)	9.44675358795E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.40995E-06	+/-	4.1E-07
Delay rate (us/s)	1.31247679554E+00	Apriori rate (us/s)	1.31248313029E+00	Resid rate (us/s)	-6.33475E-06	+/-	2.4E-09
Total phase (deg)	95.1	Apriori accel (us/s/s)	-5.18717551200E-05	Resid phase (deg)	239.1	+/-	12.7

ph/seg (deg)	RMS 93.2	Theor. 108.6	Amplitude Search (2048X8)	1.421 +/- 0.157	1.232	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.2	189.6	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.678	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.411	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -9161.413 -2947.417 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bB.W.16.1T5GR2

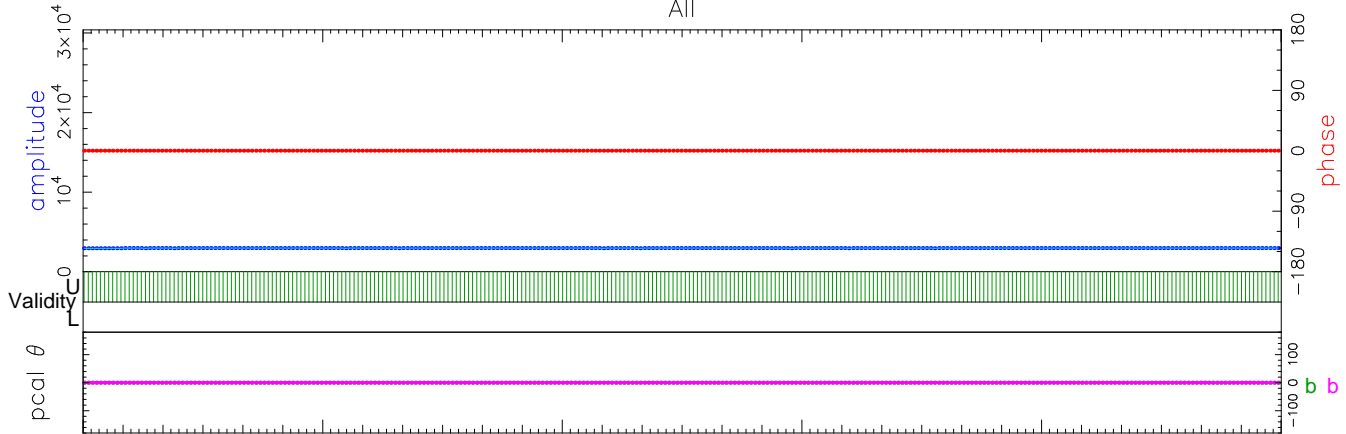


Fringe quality 5

SNR 73487.5
Int time 299.975
Amp 10134.853
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

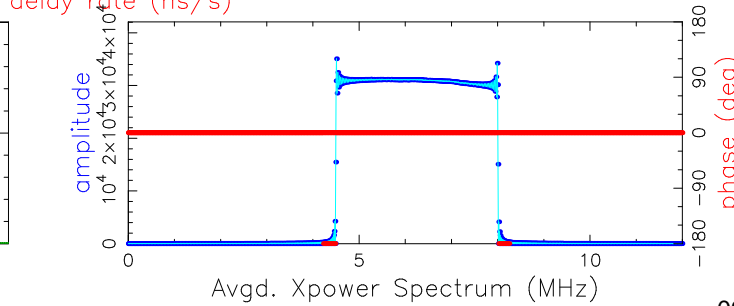
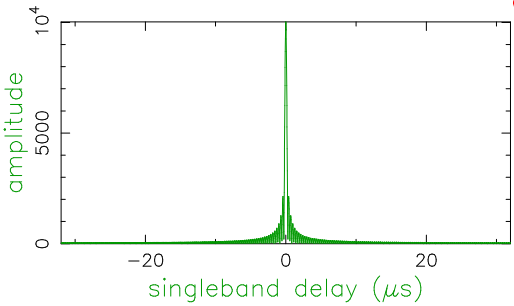
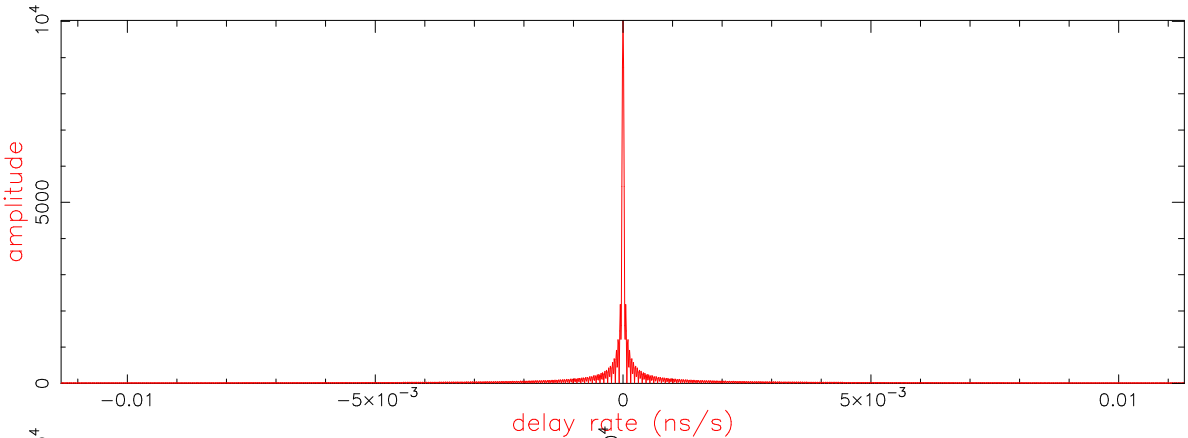


86227.00
0.2
2969.2
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UL

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

Group delay (usec)(sbd)	-5.62468832268E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.62469E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	6.07262612038E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.07263E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10134.854 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10134.853 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2969.195 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
b: az 103.7 el 59.9 pa -52.0 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bb..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bb.W.20.1T5GR2 simultaneous interpolator

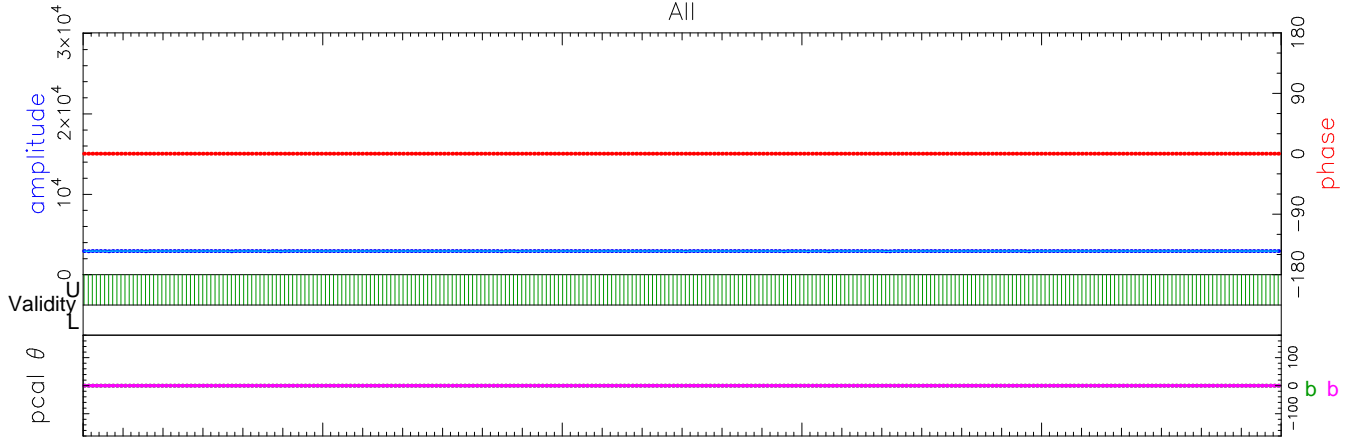


Fringe quality 5

SNR 72710.2
Int time 299.975
Amp 10027.657
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2937.8
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UR

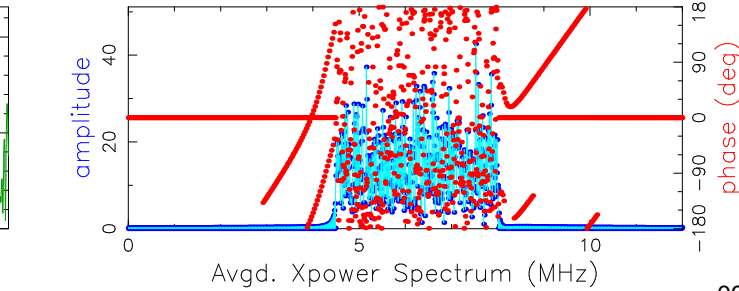
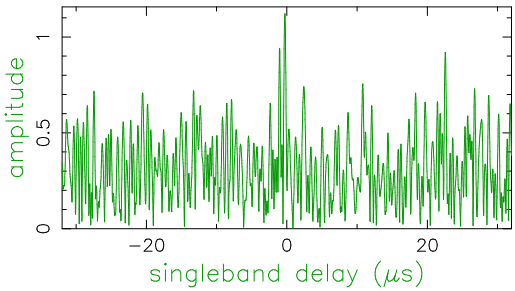
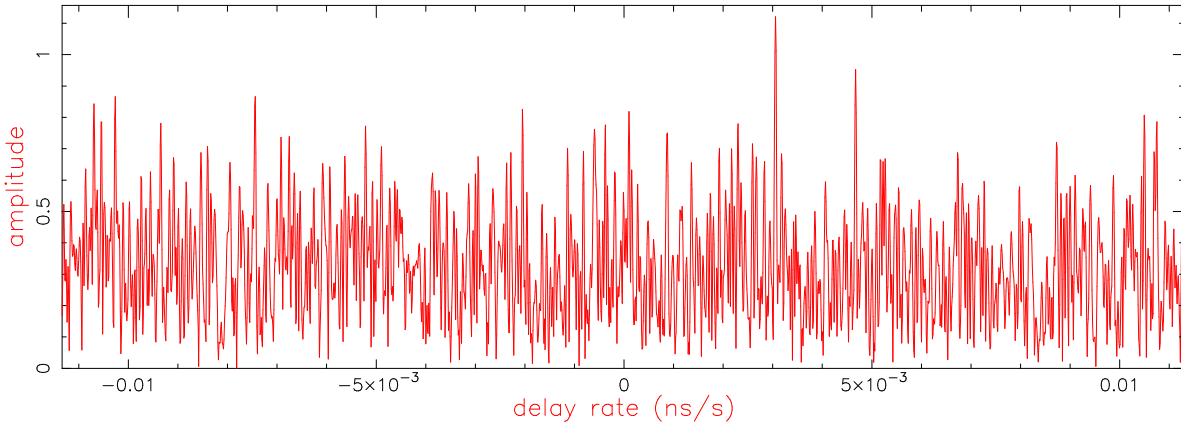
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.68267480024E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.68267E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	6.13523051337E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.13523E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10027.656 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10027.657	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.	2937.790	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10027.657	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

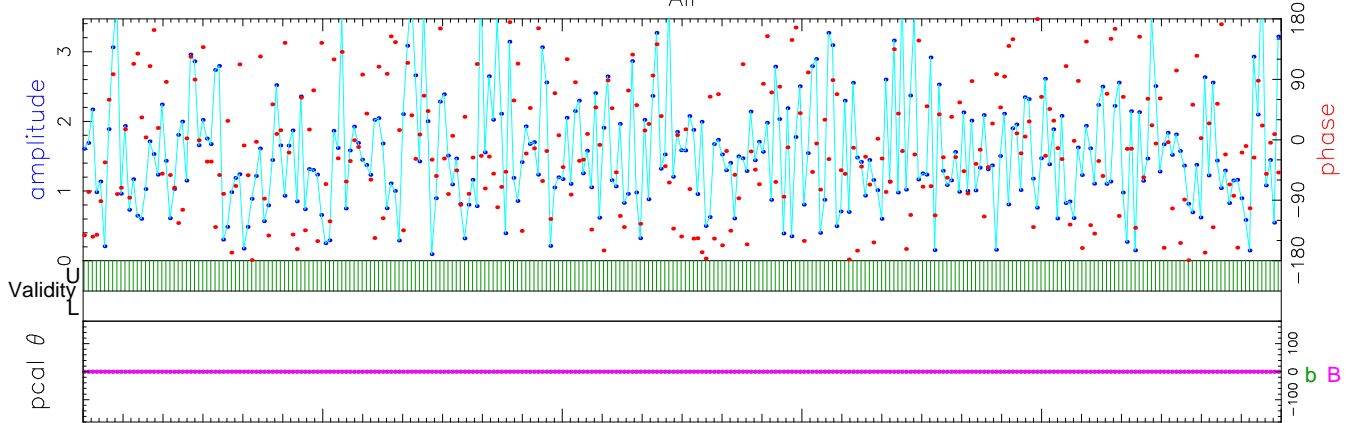
b: az 103.7 el 59.9 pa -52.0 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bb..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bb.W.25.1T5GR2

Fringe quality 8



SNR 8.1
Int time 299.975
Amp 1.157
Phase 113.0
PFD 6.4e-09
Delays (us)
SBD -0.279940
MBD 0.000005
Fringe rate (Hz)
0.263232
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



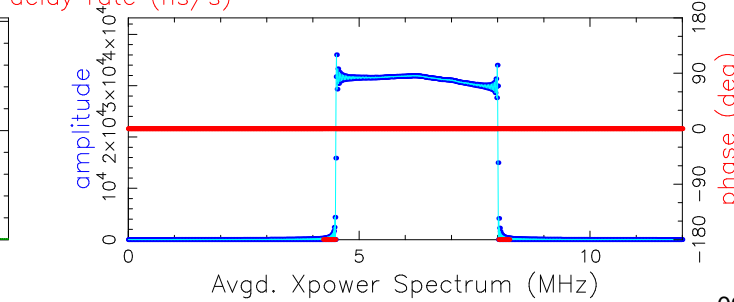
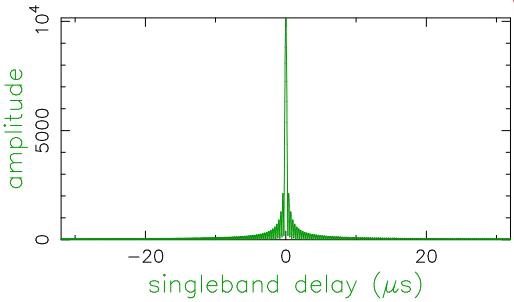
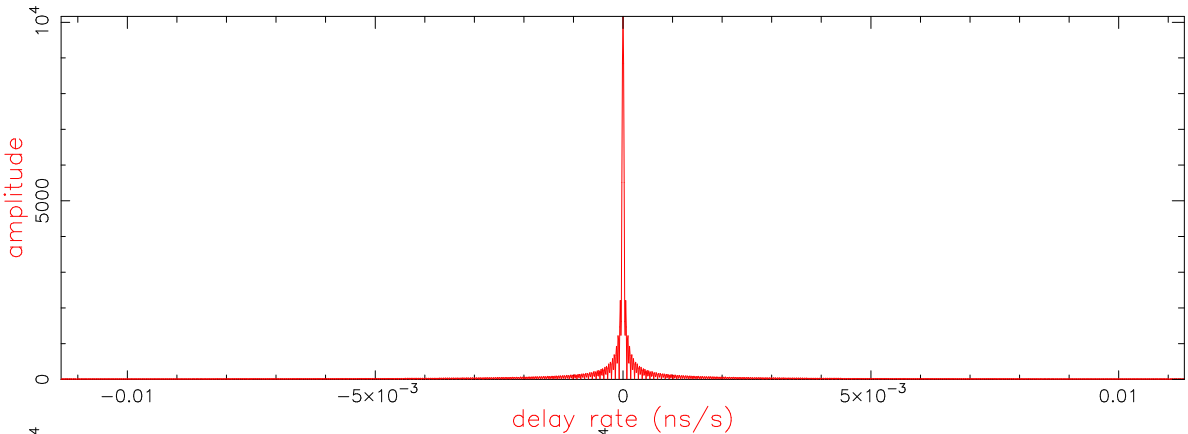
86227.00
-14.9
0.3
1523.6
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
B W03UR

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)	9.44647363997E+03	Apriori delay (usec)	9.44675358254E+03	Resid mbdelay (usec)	4.54827E-06	+/-	5.6E-03
Sband delay (usec)	9.44647364254E+03	Apriori clock (usec)	1.9077345E+01	Resid sbdelay (usec)	-2.79940E-01	+/-	5.6E-03
Phase delay (usec)	9.44675358206E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.80891E-07	+/-	4.5E-07
Delay rate (us/s)	1.31248618616E+00	Apriori rate (us/s)	1.31248313029E+00	Resid rate (us/s)	3.05587E-06	+/-	2.6E-09
Total phase (deg)	329.0	Apriori accel (us/s/s)	-5.18717551200E-05	Resid phase (deg)	113.0	+/-	14.1

ph/seg (deg)	RMS 91.4	Theor. 120.5	Amplitude Search (2048X8)	1.116	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	84.3	210.2	Interp.	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	7.0	Inc. seg. avg.	0.503	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.147	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 103.7 el 59.9 pa -52.0 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -9161.413 -2947.417 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bB.W.39.1T5GR2

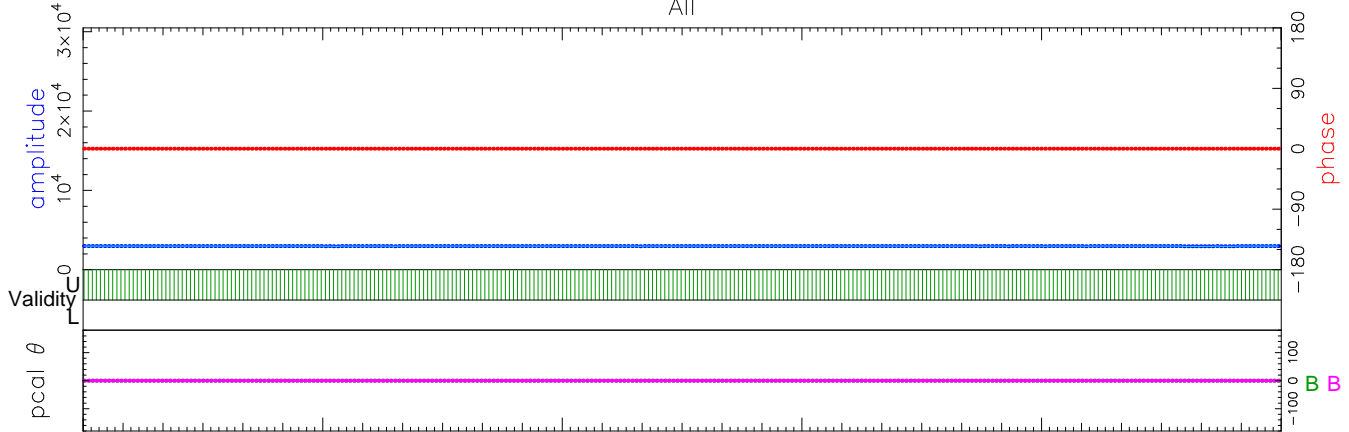


Fringe quality 5

SNR 73704.4
Int time 299.979
Amp 10164.713
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2977.9
1537.0
U/L 586/0
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

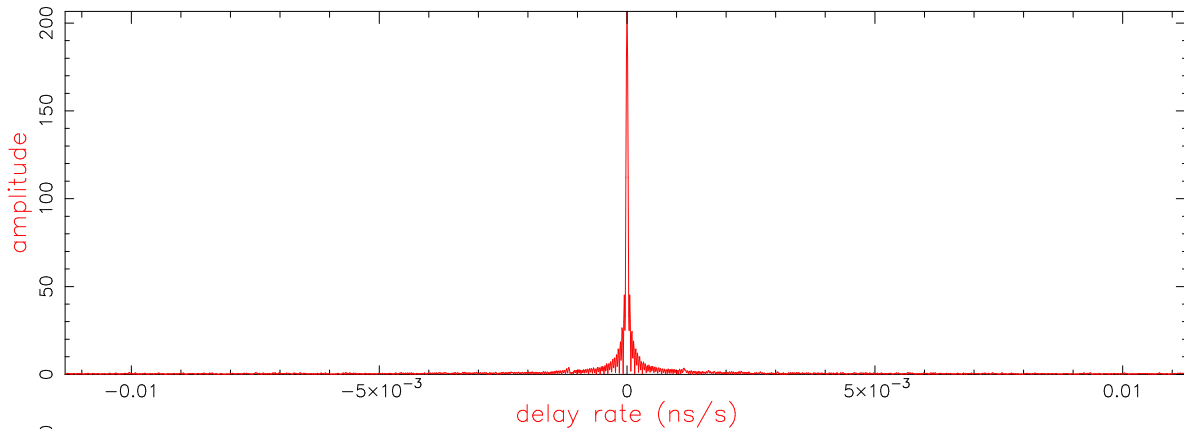
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.77947742586E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.77948E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	5.16010448811E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.16010E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10164.713 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10164.713	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.	2977.943	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10164.713	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

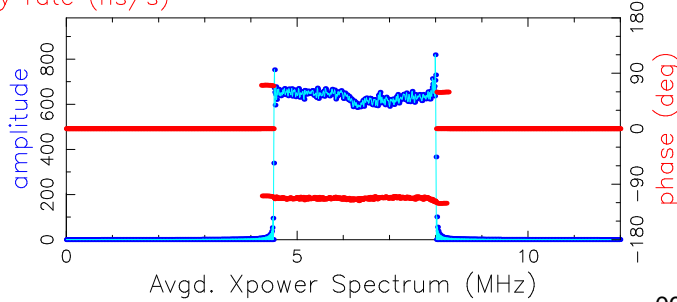
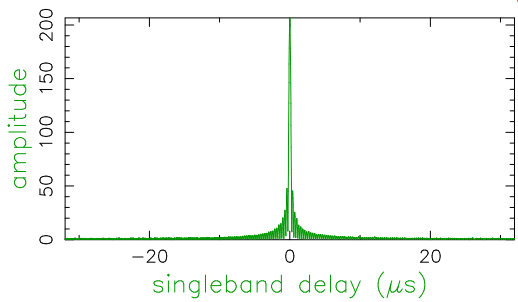
B: az 293.8 el 25.6 pa 44.9 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/BB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/BB.W.41.1T5GR2



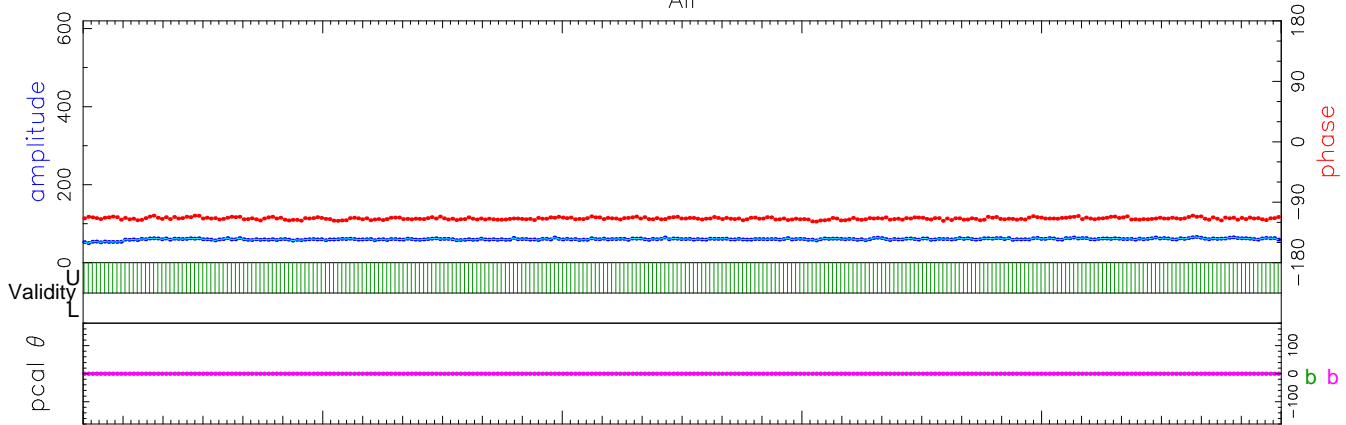
Fringe quality 5

SNR 1498.4
Int time 299.975
Amp 206.642
Phase -98.1
PFD 0.0e+00
Delays (us)
SBD -0.000520
MBD -0.000007
Fringe rate (Hz)
0.000033
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-114.1
60.5
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UR

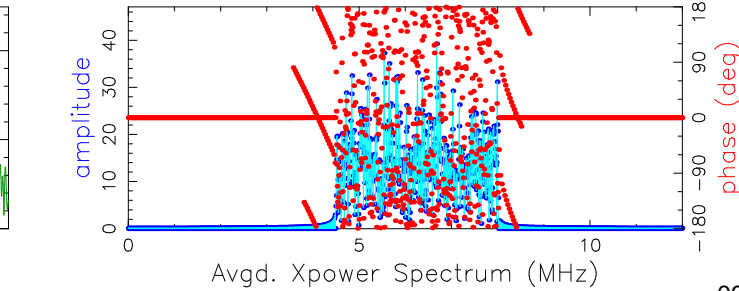
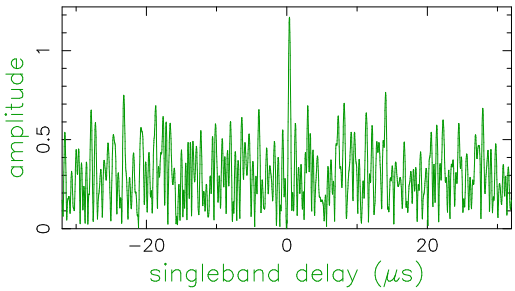
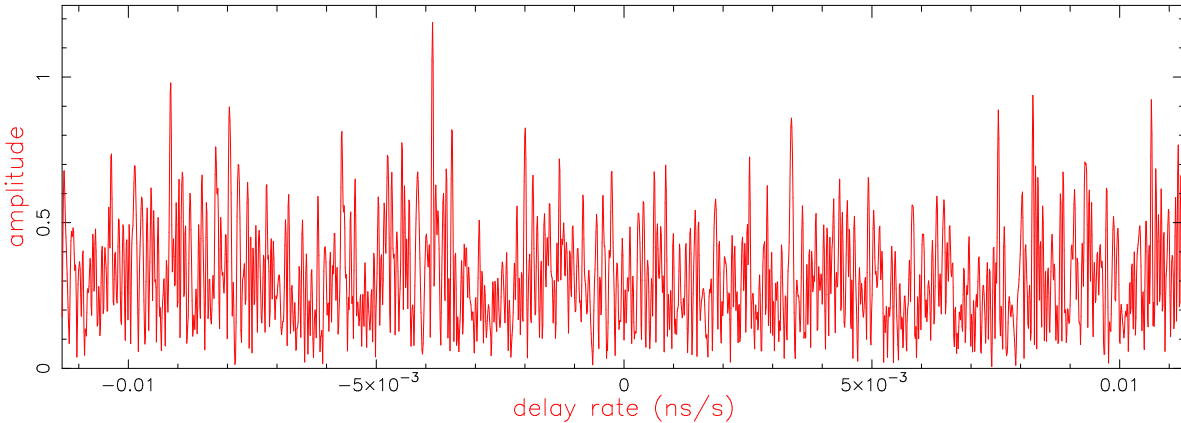
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.17050668584E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.76967E-06	+/-	3.1E-05
Sband delay (usec)	-5.20000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.20000E-04	+/-	3.1E-05
Phase delay (usec)	-3.67930229658E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.67930E-06	+/-	2.5E-09
Delay rate (us/s)	3.86163902673E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.86164E-10	+/-	1.4E-11
Total phase (deg)	-98.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-98.1	+/-	0.1

ph/seg (deg)	1.6	Theor.	0.7	Amplitude	206.642 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.1	Search (2048X8)	206.607	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		0.1	Inc. seg. avg.	60.559	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	206.641	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

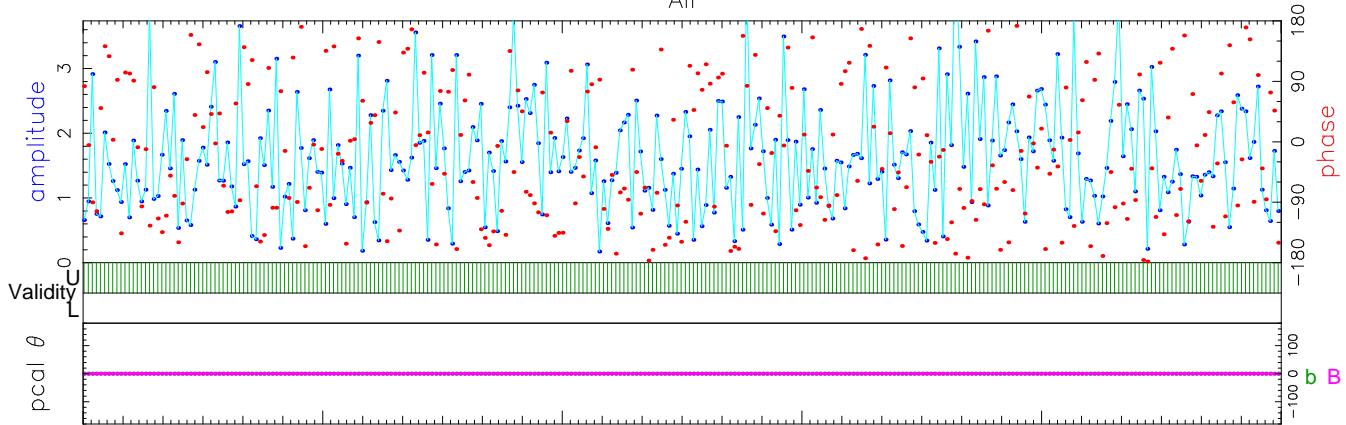
b: az 103.7 el 59.9 pa -52.0 b: az 103.7 el 59.9 pa -52.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bb..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bb.W.45.1T5GR2

Fringe quality 8



SNR 8.6
Int time 299.975
Amp 1.246
Phase -222.7
PFD 1.3e-10
Delays (us)
SBD 0.372103
MBD -0.000007
Fringe rate (Hz)
-0.332202
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



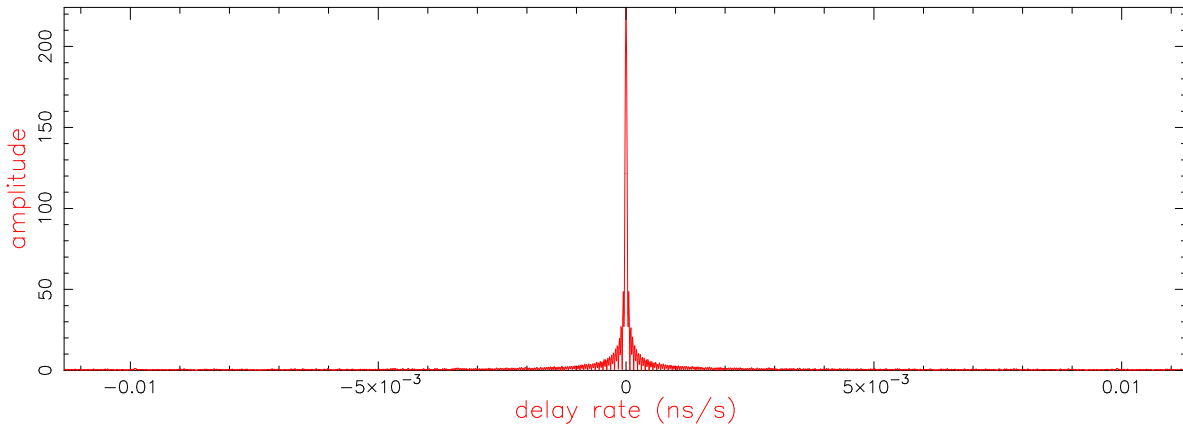
86227.00
-88.2
0.4
1554.9
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UL
B W03UR

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)	9.44712568612E+03	Apriori delay (usec)	9.44675358254E+03	Resid mbdelay (usec)	-7.24130E-06	+/- 5.3E-03
Sband delay (usec)	9.44712568521E+03	Apriori clock (usec)	1.9077345E+01	Resid sbdelay (usec)	3.72103E-01	+/- 5.3E-03
Phase delay (usec)	9.44675357970E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.84270E-06	+/- 4.3E-07
Delay rate (us/s)	1.31247927376E+00	Apriori rate (us/s)	1.31248313029E+00	Resid rate (us/s)	-3.85654E-06	+/- 2.5E-09
Total phase (deg)	-6.7	Apriori accel (us/s/s)	-5.18717551200E-05	Resid phase (deg)	-222.7	+/- 13.3

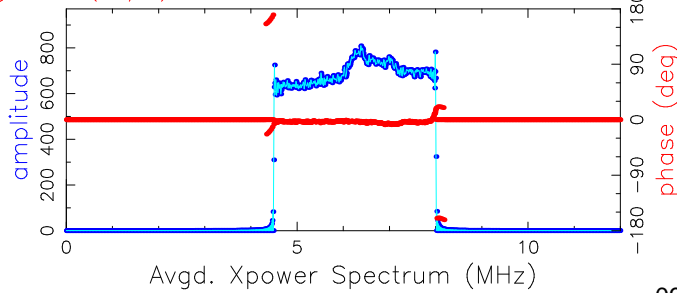
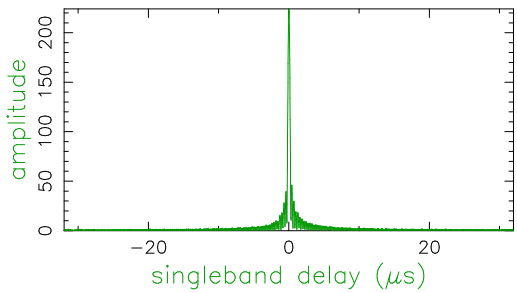
ph/seg (deg)	RMS 97.9	Theor. 113.9	Amplitude 1.246 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.7	198.8	Search (2048X8) 1.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.6	Inc. seg. avg. 0.575	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.238	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) -9161.413 -2947.417 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bB.W.48.1T5GR2



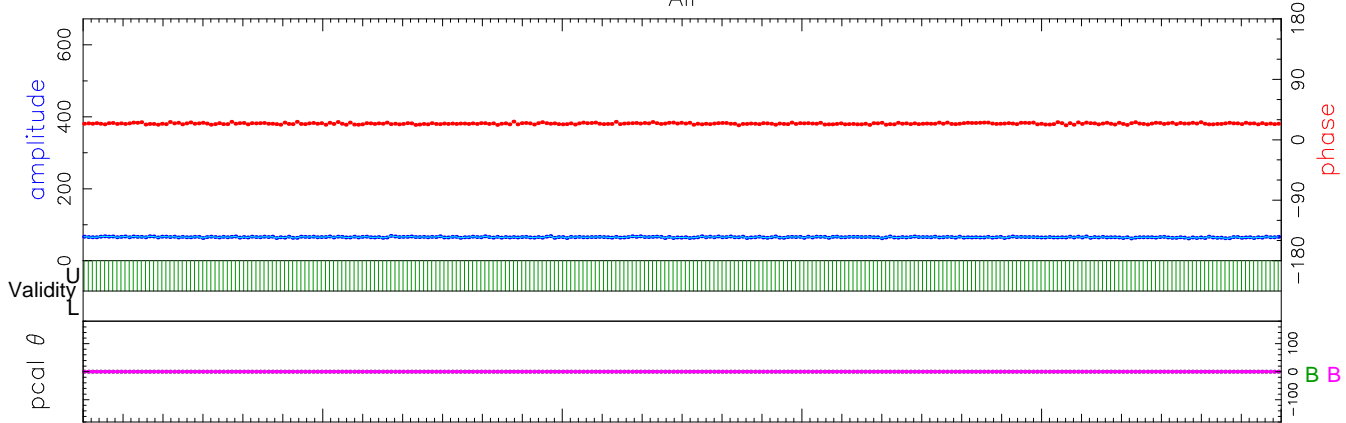
Fringe quality 5

SNR 1625.2
Int time 299.979
Amp 224.132
Phase -26.3
PFD 0.0e+00
Delays (us)
SBD 0.013104
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



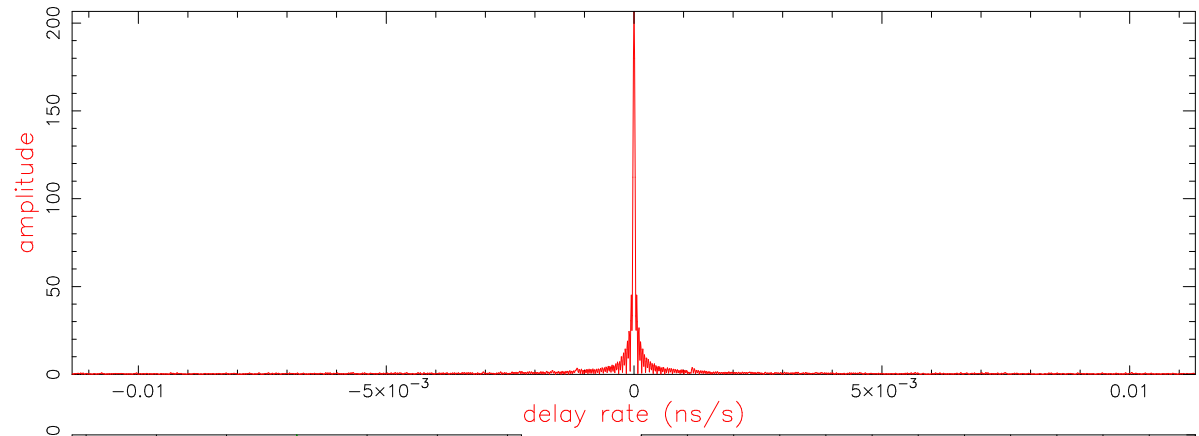
86227.00
24.1
65.6
1537.6
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UR

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)	1.30992934464E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.65048E-06	+/- 2.8E-05
Sband delay (usec)	1.31040000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.31040E-02	+/- 2.8E-05
Phase delay (usec)	7.78156125054E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.78156E-07	+/- 2.3E-09
Delay rate (us/s)	2.83423047834E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.83423E-12	+/- 1.3E-11
Total phase (deg)	-26.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-26.3	+/- 0.1

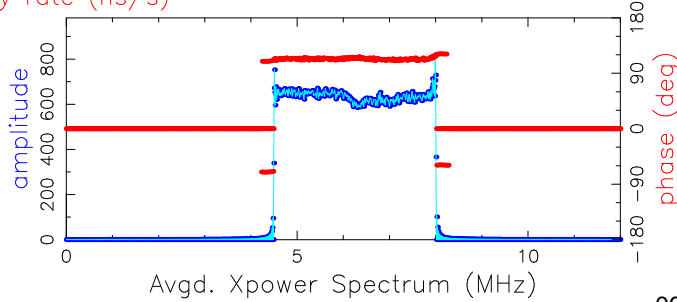
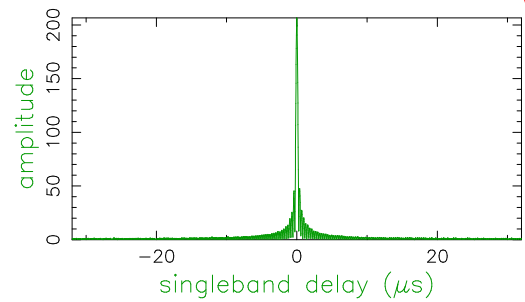
ph/seg (deg)	RMS 1.0	Theor. 0.6	Amplitude 224.132 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.1	Search (2048X8) 223.869	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 65.593	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 223.869	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

B: az 293.8 el 25.6 pa 44.9 B: az 293.8 el 25.6 pa 44.9 u, v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/BB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/BB.W.60.1T5GR2



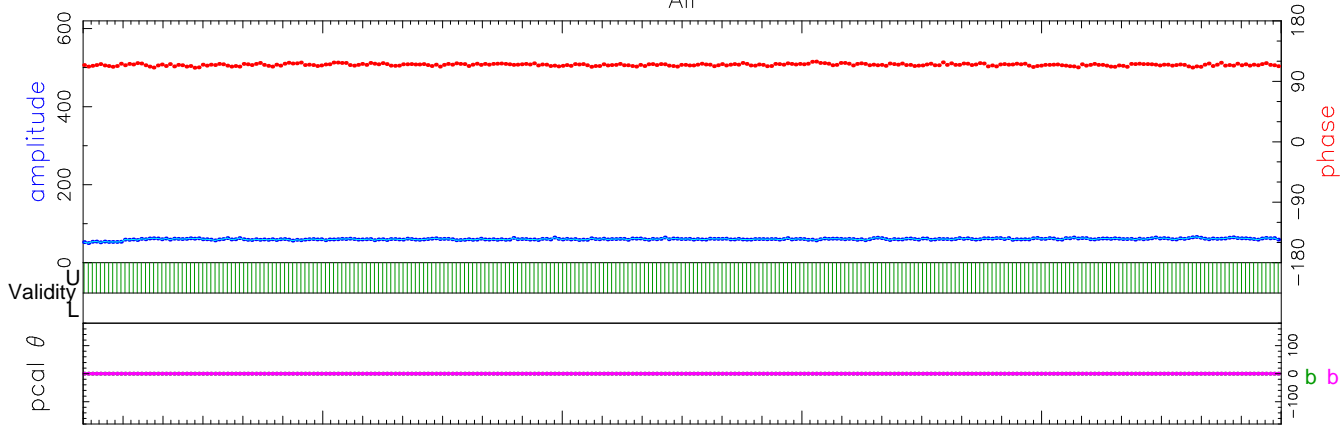
Fringe quality 5

SNR 1498.4
Int time 299.975
Amp 206.642
Phase 98.2
PFD 0.0e+00
Delays (us)
SBD 0.000520
MBD -0.000006
Fringe rate (Hz)
-0.000033
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

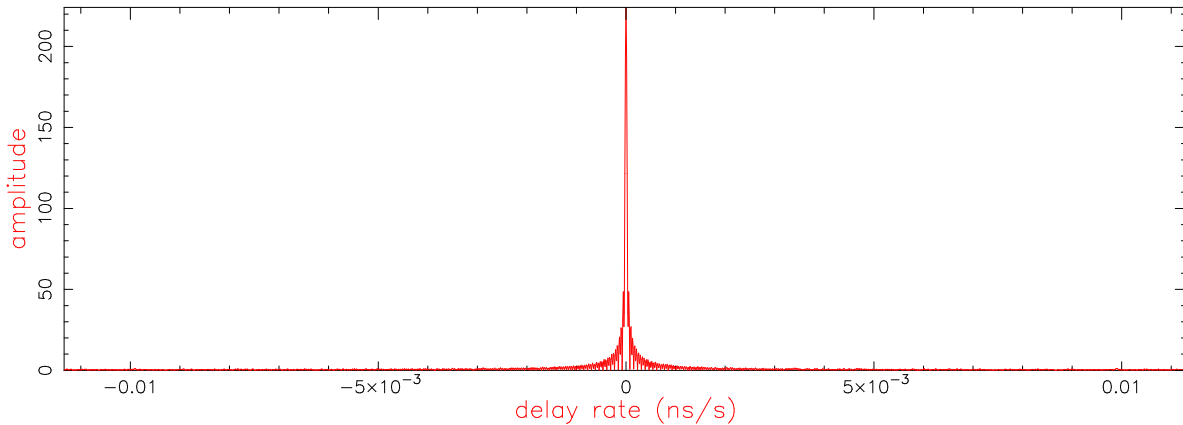
Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
114.5
60.5
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UL

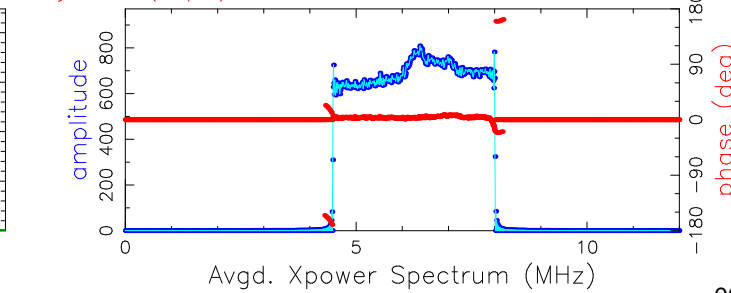
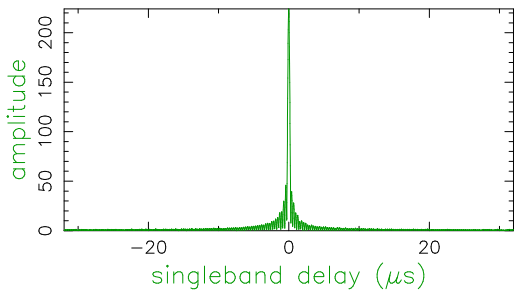
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.15952079975E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.92622E-06	+/-	3.1E-05
Sband delay (usec)	5.20000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.20000E-04	+/-	3.1E-05
Phase delay (usec)	3.69300925280E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.69301E-06	+/-	2.5E-09
Delay rate (us/s)	-3.86163902673E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.86164E-10	+/-	1.4E-11
Total phase (deg)	98.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	98.2	+/-	0.1
ph/seg (deg)	RMS 1.6 Theor. 0.7	Amplitude	206.642 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	70.7 1.1	Search (2048X8)	206.607	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
ph/frq (deg)	0.0 0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7 0.1	Inc. seg. avg.	60.559	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	206.641	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00
b: az 103.7 el 59.9 pa -52.0		b: az 103.7 el 59.9 pa -52.0		u,v (fr/asec) 0.000 0.000			simultaneous interpolator



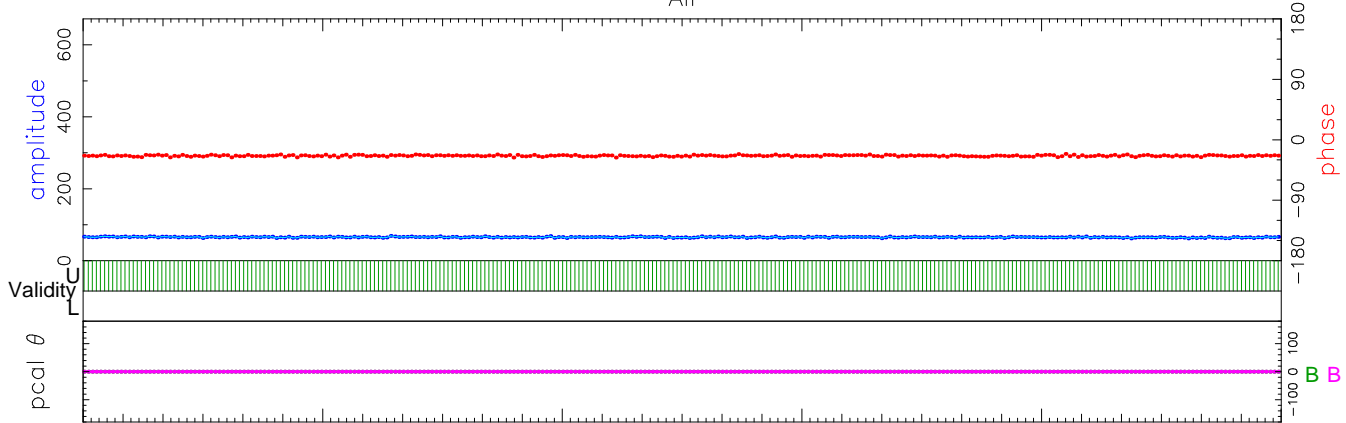
Fringe quality 5

SNR 1625.2
Int time 299.979
Amp 224.132
Phase 26.3
PFD 0.0e+00
Delays (us)
SBD -0.013104
MBD -0.000005
Fringe rate (Hz)
-0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-23.8
65.6
1536.4
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
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)	-1.30985078920E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.16126E-06	+/- 2.8E-05
Sband delay (usec)	-1.31040000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.31040E-02	+/- 2.8E-05
Phase delay (usec)	-7.66483361221E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.66483E-07	+/- 2.3E-09
Delay rate (us/s)	-2.83423047834E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.83423E-12	+/- 1.3E-11
Total phase (deg)	26.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	26.3	+/- 0.1

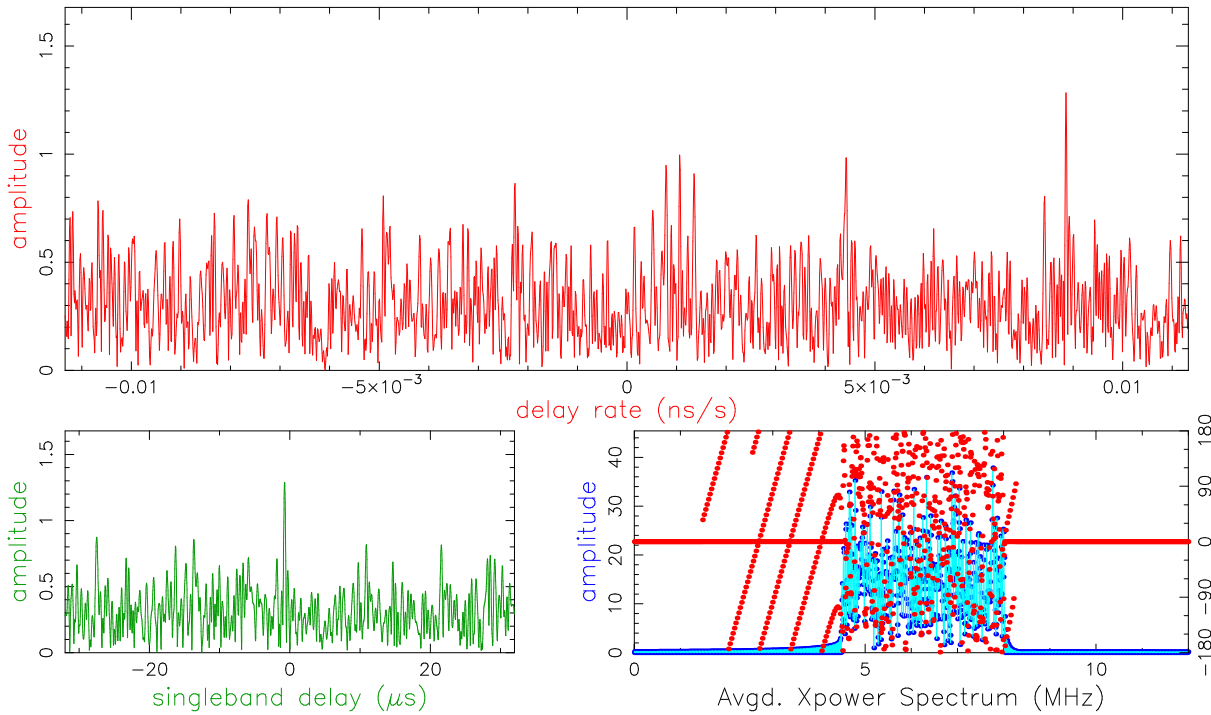
ph/seg (deg)	1.0	Theor.	0.6	Amplitude	224.132 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.1	Search (2048X8)	223.869	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	65.593	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	223.869	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

B: az 293.8 el 25.6 pa 44.9 B: az 293.8 el 25.6 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/BB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/BB.W.65.1T5GR2

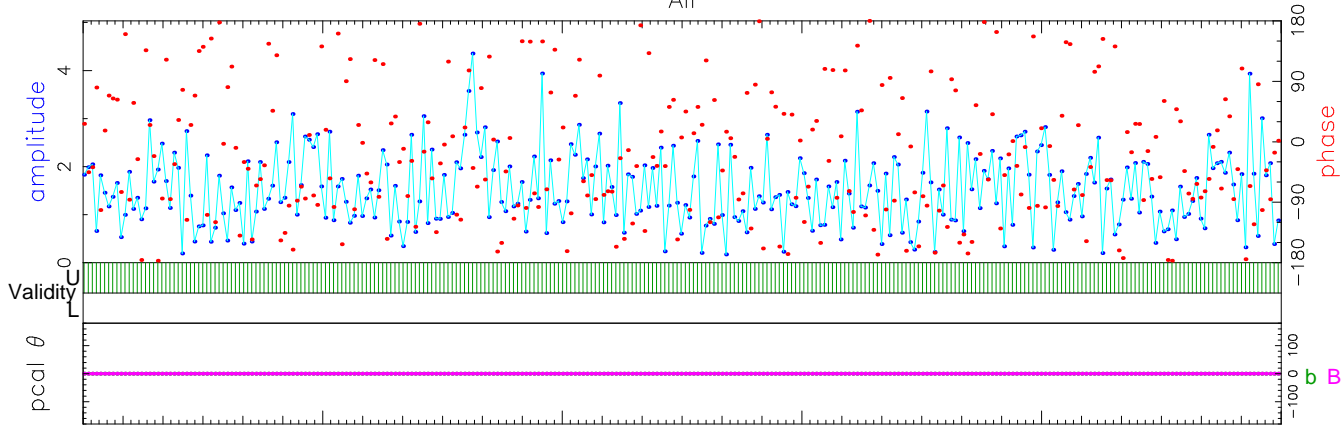
Fringe quality 8

SNR 9.3
Int time 299.975
Amp 1.679
Phase 188.3
PFD 1.8e-13
Delays (us)
SBD -0.743435
MBD 0.000006
Fringe rate (Hz)
0.762426
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-56.4
0.5
1501.3
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
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)	9.44601014357E+03	Apriori delay (usec)	9.44675358254E+03	Resid mbdelay (usec)	5.65902E-06	+/-	4.9E-03
Sband delay (usec)	9.44601014787E+03	Apriori clock (usec)	1.9077345E+01	Resid sbdelay (usec)	-7.43435E-01	+/-	4.9E-03
Phase delay (usec)	9.44675358072E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.81920E-06	+/-	4.0E-07
Delay rate (us/s)	1.31249198130E+00	Apriori rate (us/s)	1.31248313029E+00	Resid rate (us/s)	8.85101E-06	+/-	2.3E-09
Total phase (deg)	44.3	Apriori accel (us/s/s)	-5.18717551200E-05	Resid phase (deg)	188.3	+/-	12.3

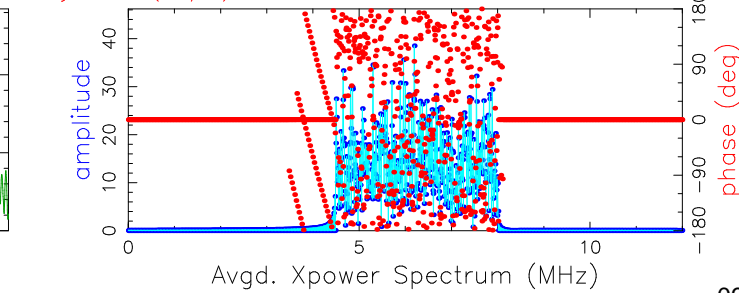
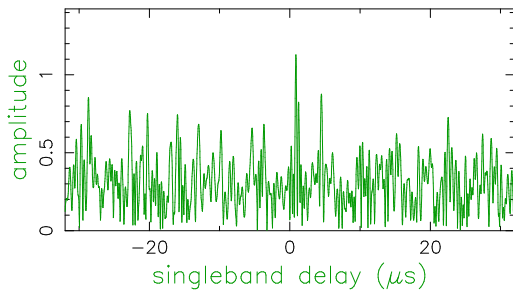
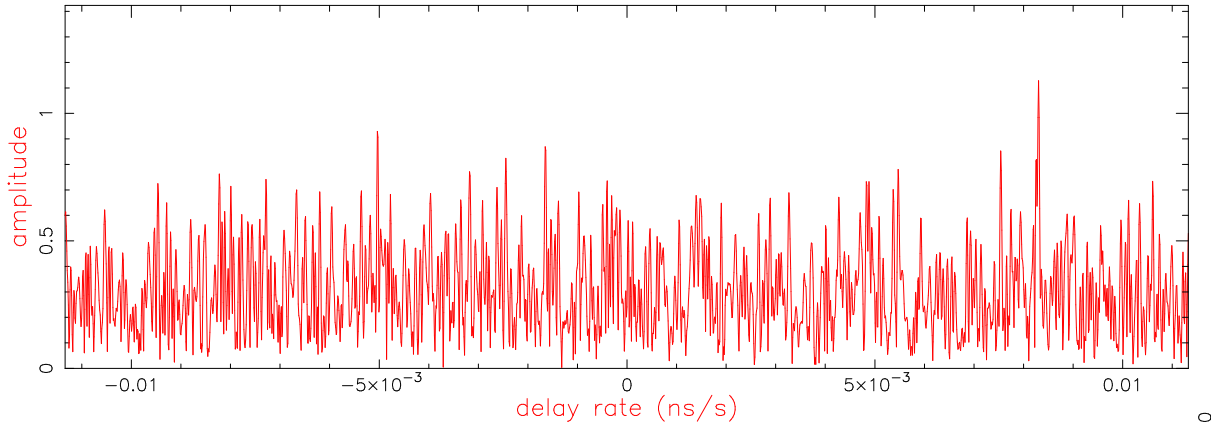
ph/seg (deg)	RMS 91.2	Theor. 105.0	Amplitude Search (2048X8)	1.679 +/- 0.180	1.234	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	62.3	183.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.741	0.741	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	10.7	Inc. frq. avg.	1.662	1.662	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			b: az 103.7 el 59.9 pa -52.0		B: az 293.8 el 25.6 pa 44.9		ion window (TEC) 0.00 0.00
			u,v (fr/asec) -9161.413 -2947.417		simultaneous interpolator		

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bB..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bB.W.68.1T5GR2

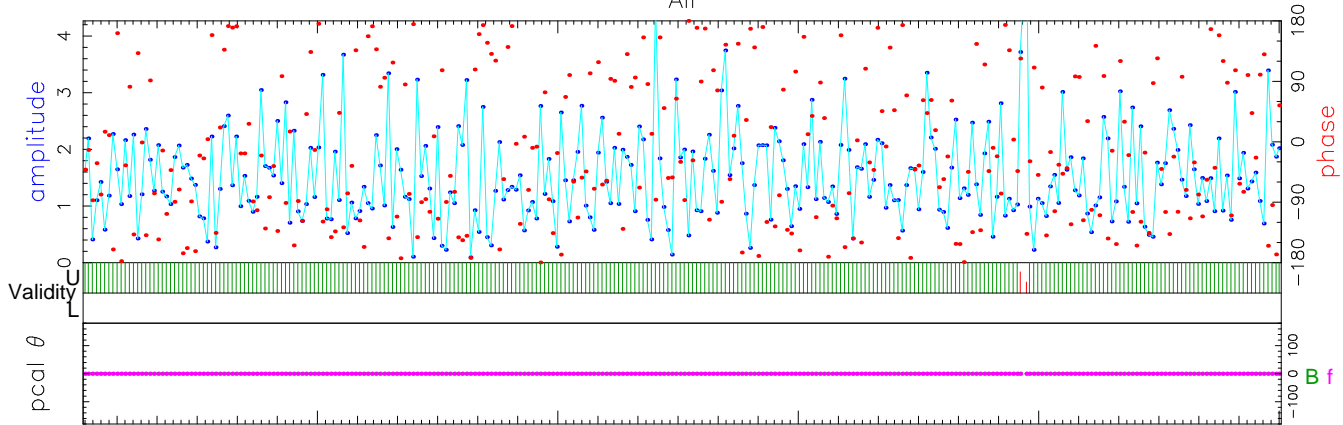
Fringe quality 8

SNR 8.1
Int time 296.266
Amp 1.424
Phase -299.4
PFD 6.3e-09
Delays (us)
SBD 0.867527
MBD 0.000005
Fringe rate (Hz)
0.714495
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-128.6
0.4
1578.6
U/L 581/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f W03UL

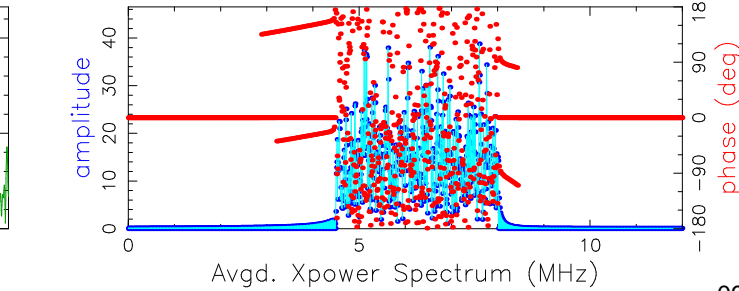
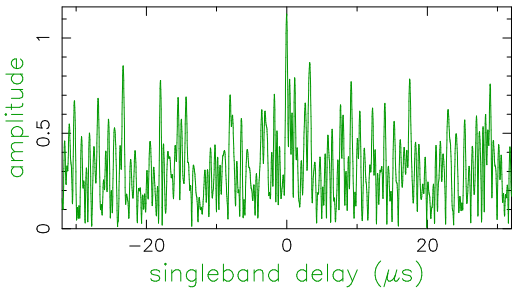
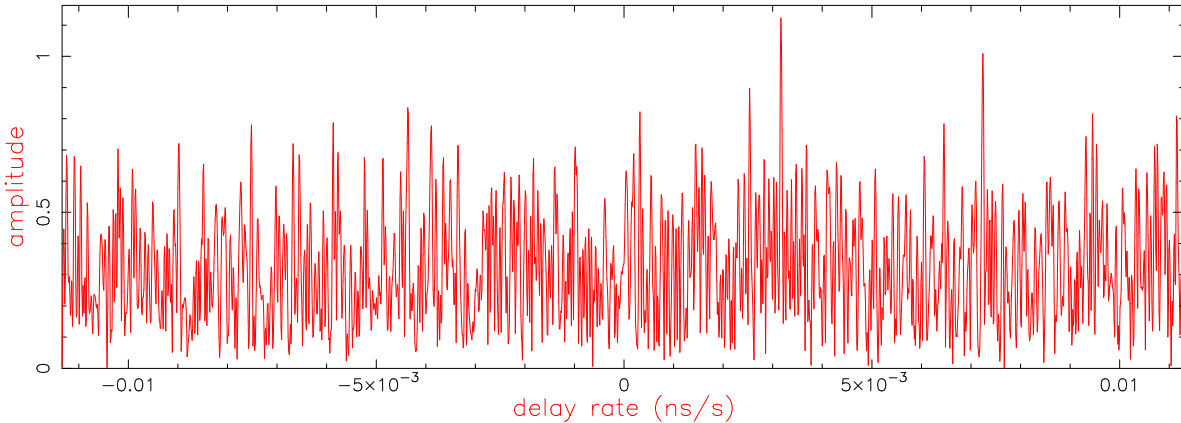
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.13149748574E+04	Apriori delay (usec)	-1.13158423862E+04	Resid mbdelay (usec)	4.64115E-06	+/-	5.6E-03
Sband delay (usec)	-1.13149748595E+04	Apriori clock (usec)	-3.2328979E+01	Resid sbdelay (usec)	8.67527E-01	+/-	5.6E-03
Phase delay (usec)	-1.13158423903E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-4.14609E-06	+/-	4.5E-07
Delay rate (us/s)	-1.18839079285E+00	Apriori rate (us/s)	-1.18839908743E+00	Resid rate (us/s)	8.29457E-06	+/-	2.6E-09
Total phase (deg)	-351.0	Apriori accel (us/s/s)	7.67261909579E-05	Resid phase (deg)	-299.4	+/-	14.1

ph/seg (deg)	RMS 93.2	Theor. 120.0	Amplitude Search (2048X8)	1.424 +/- 0.175	1.121	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.0	209.4	Interp.	0.000	1.121	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.599	1.121	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.3	Inc. frq. avg.	1.411	1.121	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

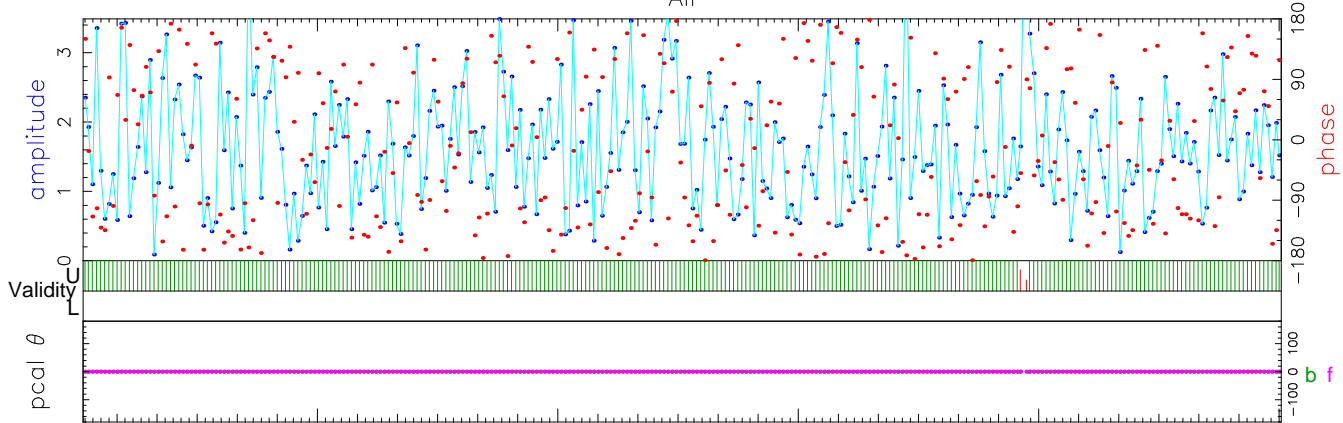
B: az 293.8 el 25.6 pa 44.9 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 8321.434 6007.025 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bf.W.10.1T5GR2

Fringe quality 8



SNR 8.1
Int time 296.266
Amp 1.163
Phase 331.1
PFD 7.9e-09
Delays (us)
SBD -0.027285
MBD 0.000007
Fringe rate (Hz)
0.272566
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-163.6
0.3
1535.7
U/L 581/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UR

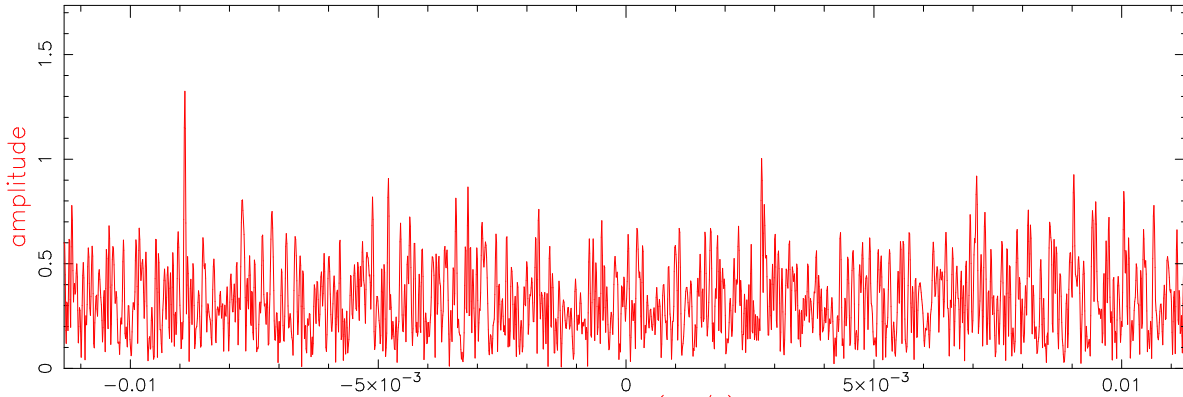
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.86911608523E+03	Apriori delay (usec)	-1.86908880361E+03	Resid mbdelay (usec)	6.81875E-06	+/-	5.7E-03
Sband delay (usec)	-1.86911608895E+03	Apriori clock (usec)	-1.3251635E+01	Resid sbdelay (usec)	-2.72853E-02	+/-	5.7E-03
Phase delay (usec)	-1.86908880889E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-5.27451E-06	+/-	4.6E-07
Delay rate (us/s)	1.24087207091E-01	Apriori rate (us/s)	1.24084042867E-01	Resid rate (us/s)	3.16422E-06	+/-	2.7E-09
Total phase (deg)	135.6	Apriori accel (us/s/s)	2.48544358379E-05	Resid phase (deg)	331.1	+/-	14.1

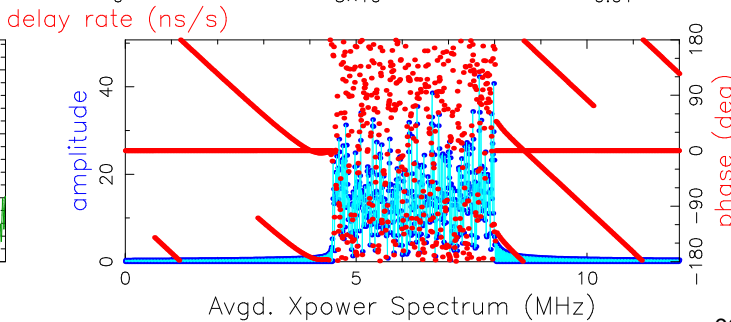
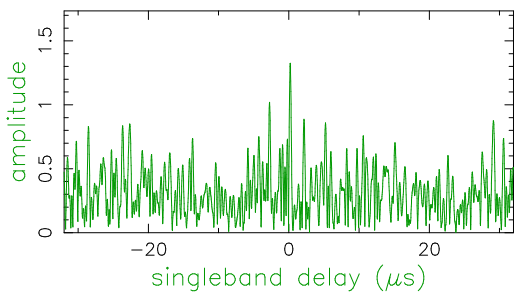
ph/seg (deg)	RMS 90.9	Theor. 120.4	Amplitude Search (2048X8)	1.163 +/- 0.143	1.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.6	210.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.520	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.8	12.3	Inc. frq. avg.	1.151	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	nlags: 1536 t_cohere infinite

b: az 103.7 el 59.9 pa -52.0 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) -839.979 3059.608 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bf.W.22.1T5GR2

Fringe quality 8

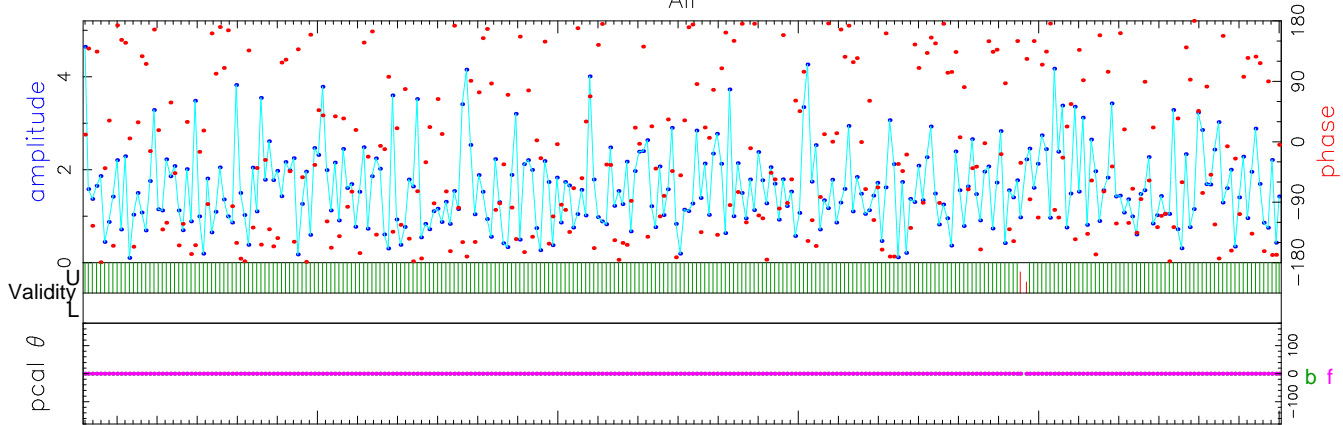


SNR 9.6
Int time 296.266
Amp 1.735
Phase -210.4
PFD 2.1e-14
Delays (us)
SBD 0.197289
MBD -0.000004
Fringe rate (Hz)
-0.766427
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-151.2
0.5
1546.5
U/L 581/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UR

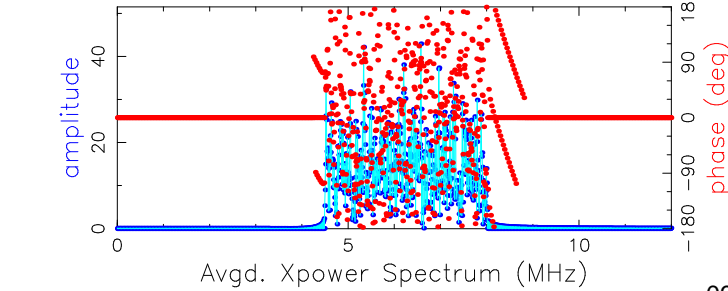
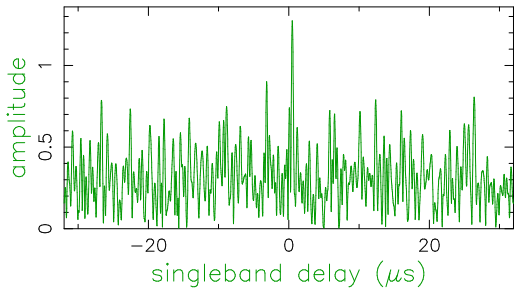
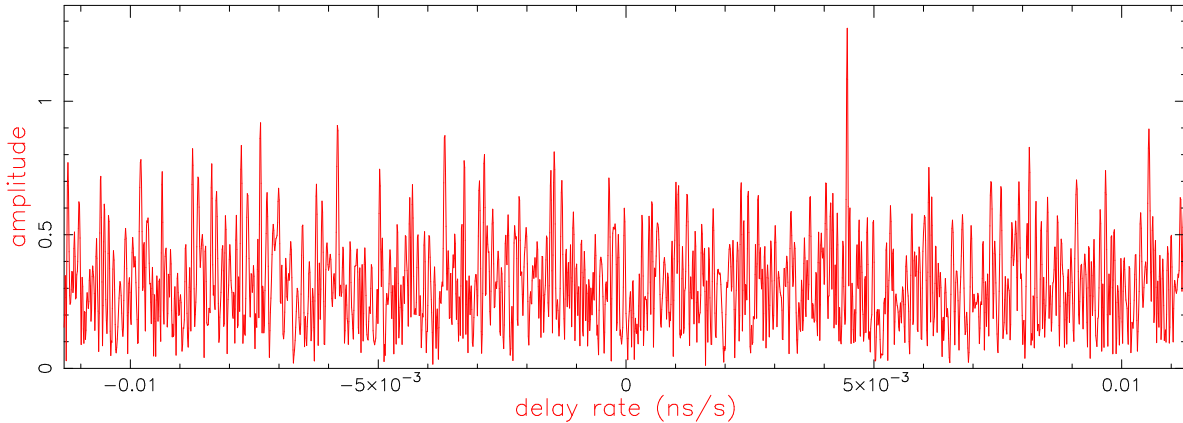
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.86889151479E+03	Apriori delay (usec)	-1.86908880361E+03	Resid mbdelay (usec)	-4.36995E-06	+/-	4.8E-03
Sband delay (usec)	-1.86889151428E+03	Apriori clock (usec)	-1.3251635E+01	Resid sbdelay (usec)	1.97289E-01	+/-	4.8E-03
Phase delay (usec)	-1.86908880849E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-4.87512E-06	+/-	3.9E-07
Delay rate (us/s)	1.24075145414E-01	Apriori rate (us/s)	1.24084042867E-01	Resid rate (us/s)	-8.89745E-06	+/-	2.2E-09
Total phase (deg)	-45.9	Apriori accel (us/s/s)	2.48544358379E-05	Resid phase (deg)	-210.4	+/-	12.0

ph/seg (deg)	RMS 92.3	Theor. 102.1	Amplitude Search (2048X8)	1.735 +/- 0.181	1.296	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.8	178.3	Interp.	0.000	1.296	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.817	1.296	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	10.5	Inc. frq. avg.	1.722	1.296	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
					1.296	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					1.296	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

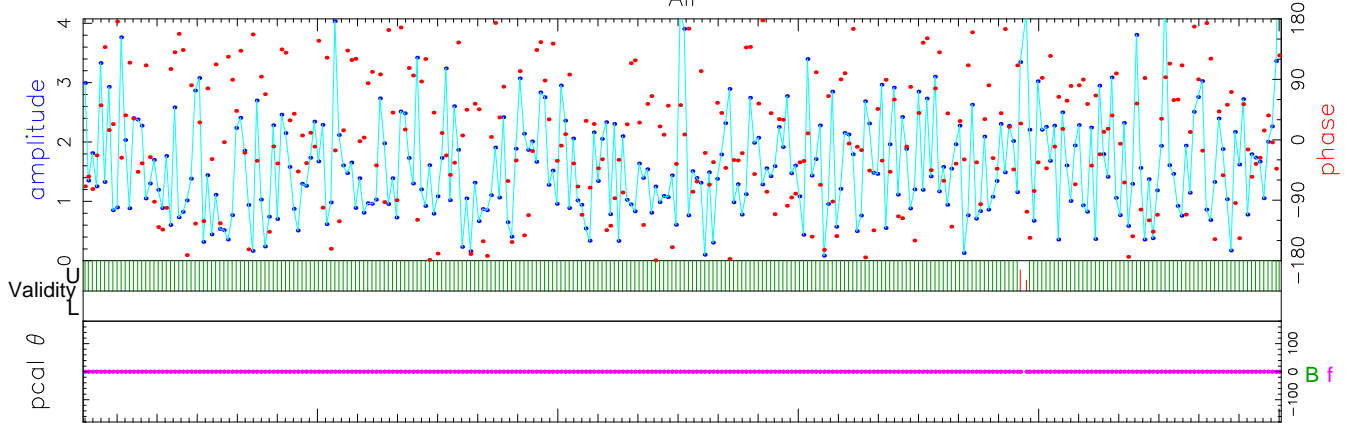
b: az 103.7 el 59.9 pa -52.0 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) -839.979 3059.608 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bf.W.28.1T5GR2

Fringe quality 8



SNR 9.2
Int time 296.266
Amp 1.359
Phase -16.3
PFD 8.0e-13
Delays (us)
SBD 0.495132
MBD 0.000004
Fringe rate (Hz)
0.384022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
10.9
0.4
1560.8
U/L 581/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UR

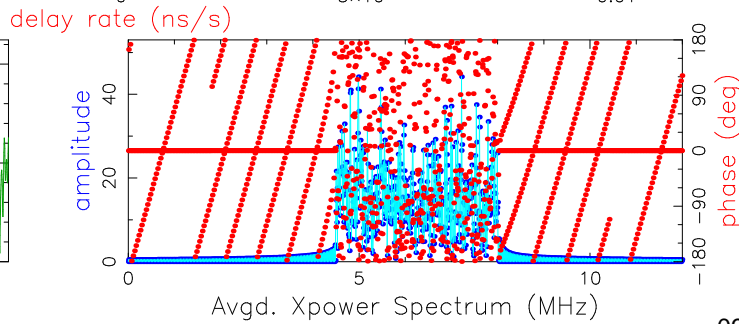
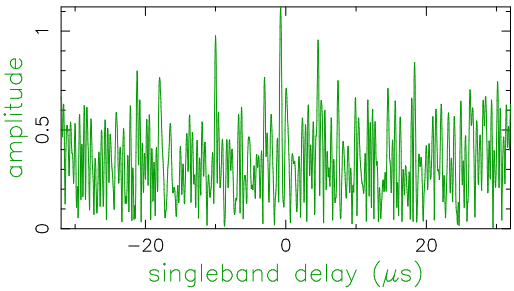
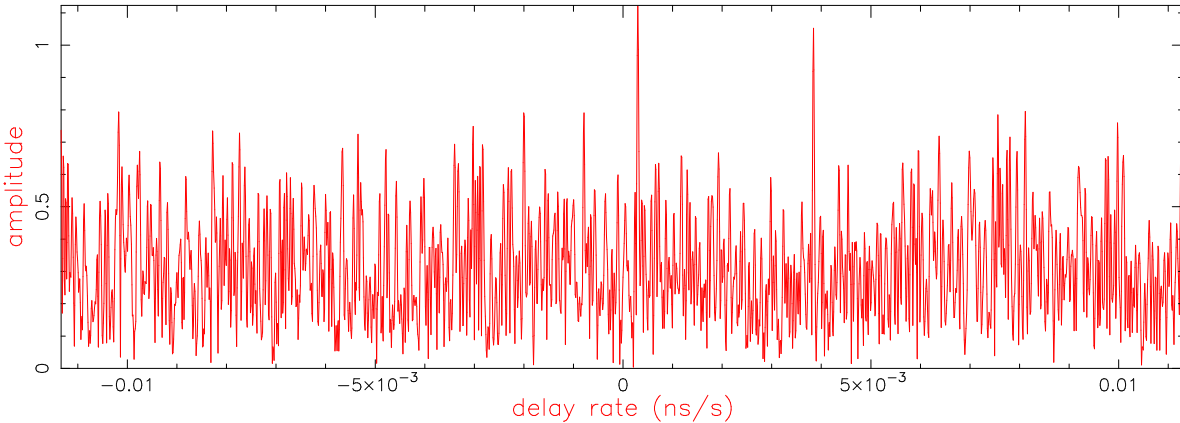
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.13153472584E+04	Apriori delay (usec)	-1.13158423862E+04	Resid mbdelay (usec)	4.39236E-06	+/-	5.0E-03
Sband delay (usec)	-1.13153472542E+04	Apriori clock (usec)	-3.2328979E+01	Resid sbdelay (usec)	4.95132E-01	+/-	5.0E-03
Phase delay (usec)	-1.13158423858E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	3.53066E-07	+/-	4.0E-07
Delay rate (us/s)	-1.18839462931E+00	Apriori rate (us/s)	-1.18839908743E+00	Resid rate (us/s)	4.45812E-06	+/-	2.3E-09
Total phase (deg)	-67.8	Apriori accel (us/s/s)	7.67261909579E-05	Resid phase (deg)	-16.3	+/-	12.5

ph/seg (deg)	RMS 91.9	Theor. 106.5	Amplitude Search (2048X8)	1.241	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.1	185.8	Interp.	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	6.2	Inc. seg. avg.	0.625	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.350	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

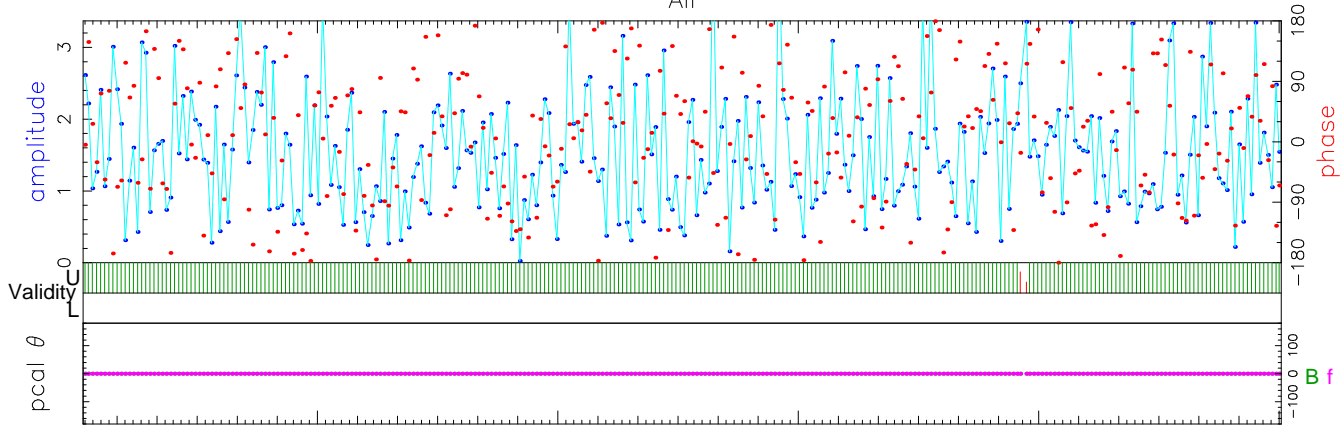
B: az 293.8 el 25.6 pa 44.9 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 8321.434 6007.025 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bf.W.37.1T5GR2

Fringe quality 8



SNR 8.1
Int time 296.266
Amp 1.123
Phase 183.9
PFD 9.6e-09
Delays (us)
SBD -0.740227
MBD 0.000004
Fringe rate (Hz) 0.025670
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
39.8
0.3
1501.5
U/L 581/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f 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)	-1.13165826140E+04	Apriori delay (usec)	-1.13158423862E+04	Resid mbdelay (usec)	4.35571E-06	+/-	5.7E-03
Sband delay (usec)	-1.13165826128E+04	Apriori clock (usec)	-3.2328979E+01	Resid sbdelay (usec)	-7.40227E-01	+/-	5.7E-03
Phase delay (usec)	-1.13158423849E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	1.28476E-06	+/-	4.6E-07
Delay rate (us/s)	-1.18839878942E+00	Apriori rate (us/s)	-1.18839908743E+00	Resid rate (us/s)	2.98004E-07	+/-	2.7E-09
Total phase (deg)	132.4	Apriori accel (us/s/s)	7.67261909579E-05	Resid phase (deg)	183.9	+/-	14.2

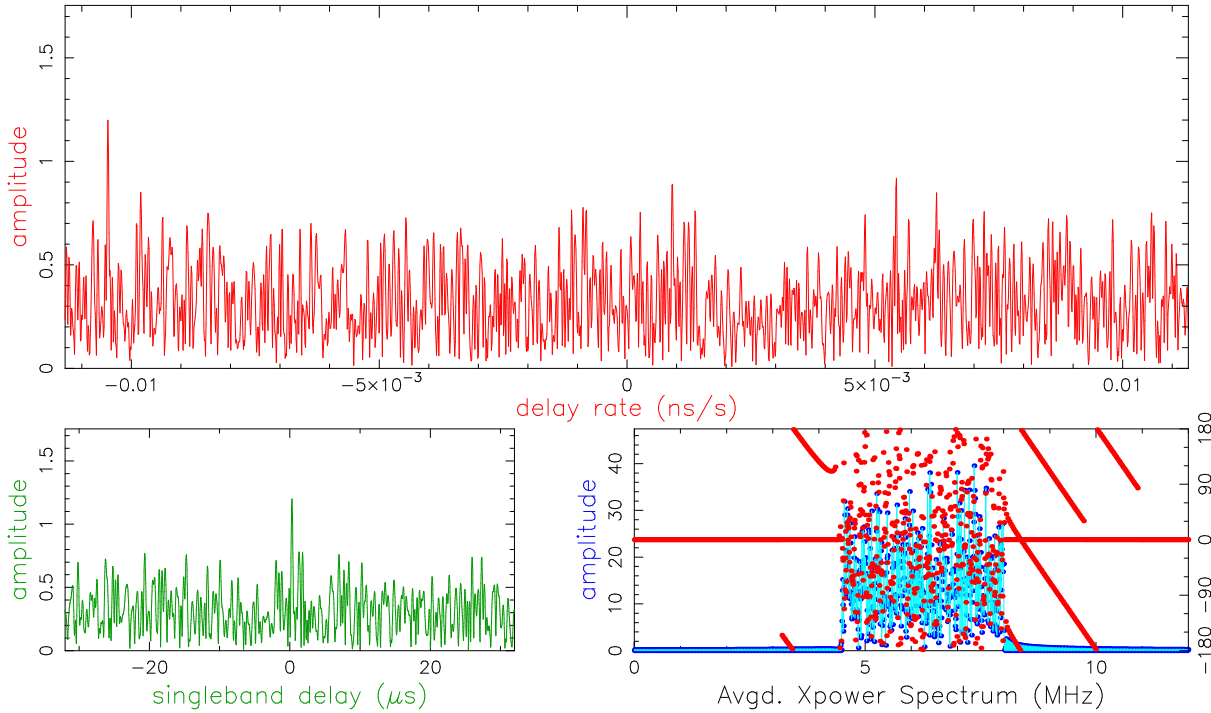
ph/seg (deg)	RMS 94.6	Theor. 120.8	Amplitude Search (2048X8)	1.123 +/- 0.139	1.116	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	82.1	210.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.475	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	12.4	Inc. frq. avg.	1.112	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 293.8 el 25.6 pa 44.9 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 8321.434 6007.025 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bf.W.49.1T5GR2

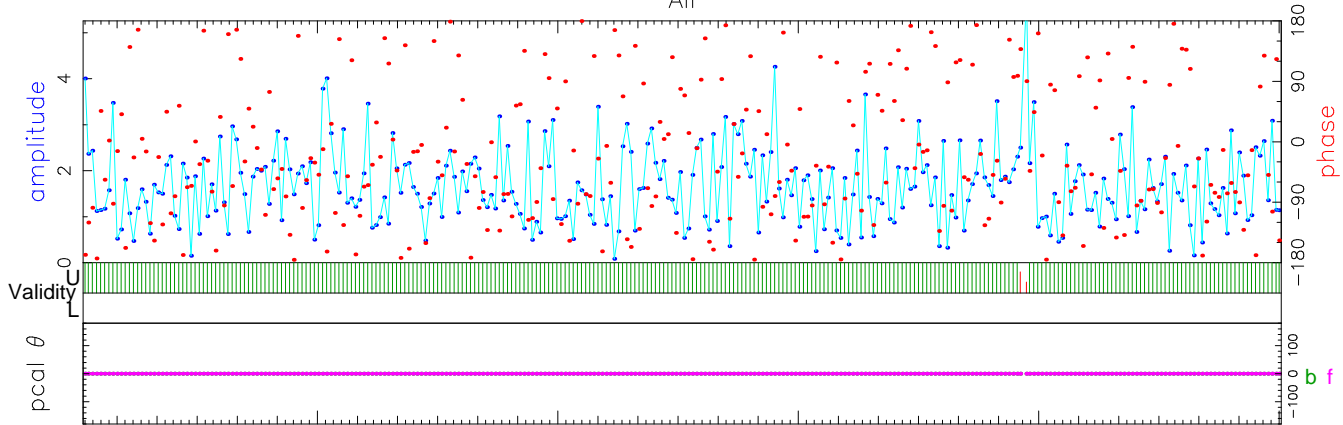
Fringe quality 8

SNR 8.7
Int time 296.266
Amp 1.754
Phase -162.0
PFD 8.7e-11
Delays (us)
SBD 0.301451
MBD -0.000007
Fringe rate (Hz)
-0.901057
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-80.2
0.5
1551.5
U/L 581/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UL

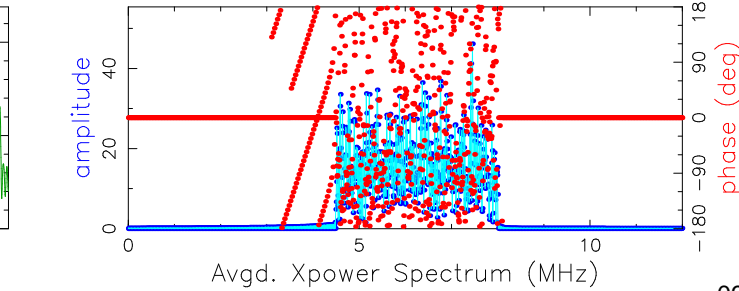
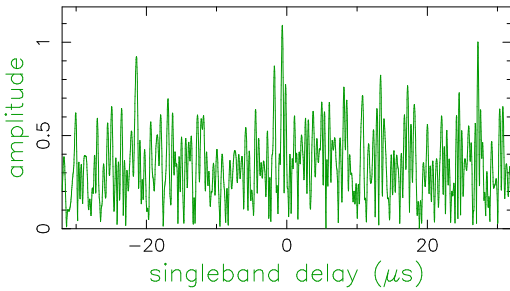
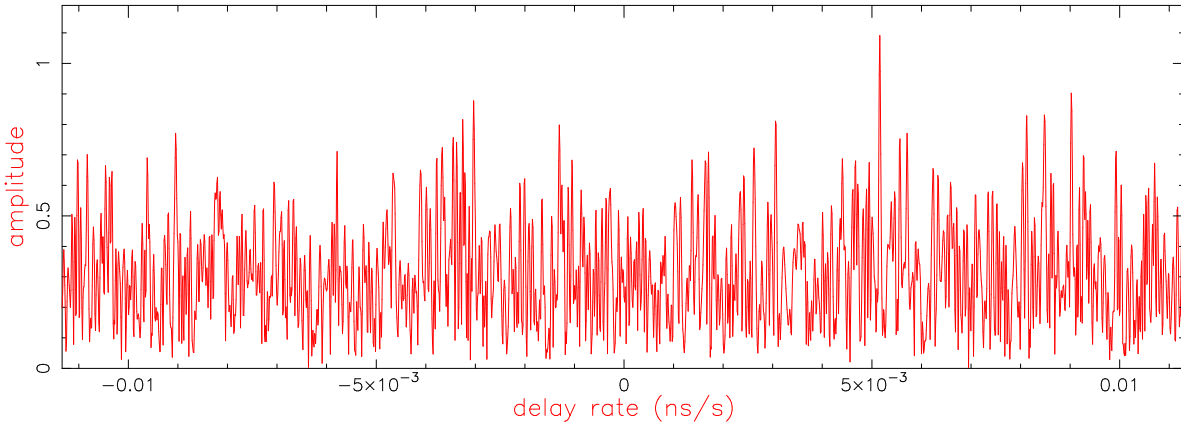
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.86878735066E+03	Apriori delay (usec)	-1.86908880361E+03	Resid mbdelay (usec)	-7.14403E-06	+/-	5.3E-03
Sband delay (usec)	-1.86878735295E+03	Apriori clock (usec)	-1.3251635E+01	Resid sbdelay (usec)	3.01451E-01	+/-	5.3E-03
Phase delay (usec)	-1.86908880620E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-2.58729E-06	+/-	4.3E-07
Delay rate (us/s)	1.24073582491E-01	Apriori rate (us/s)	1.24084042867E-01	Resid rate (us/s)	-1.04604E-05	+/-	2.5E-09
Total phase (deg)	-357.5	Apriori accel (us/s/s)	2.48544358379E-05	Resid phase (deg)	-162.0	+/-	13.2

ph/seg (deg)	RMS 93.2	Theor. 112.9	Amplitude Search (2048X8)	1.754 +/- 0.203	1.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	197.1	Interp.	0.000	0.823	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.823	1.738	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.6	Inc. frq. avg.	1.738		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00
							nlags: 1536 t_cohere infinite

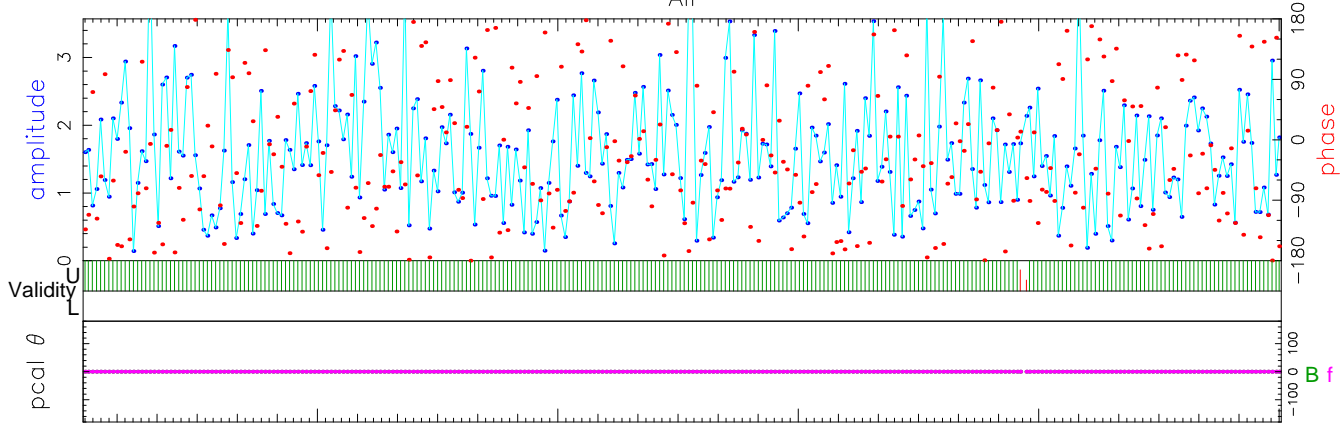
b: az 103.7 el 59.9 pa -52.0 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) -839.979 3059.608 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bf.W.56.1T5GR2

Fringe quality 8



SNR 7.9
Int time 296.266
Amp 1.190
Phase 358.8
PFD 5.8e-08
Delays (us)
SBD -0.646317
MBD 0.000005
Fringe rate (Hz)
0.444229
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-83.9
0.3
1506.0
U/L 581/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UL

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

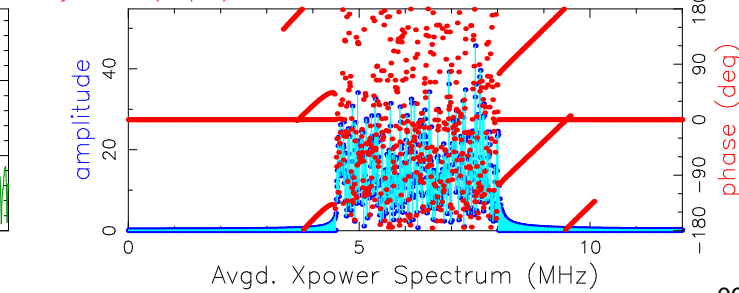
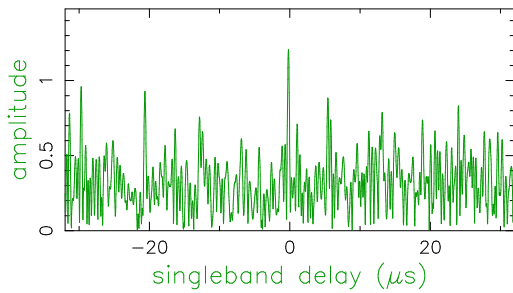
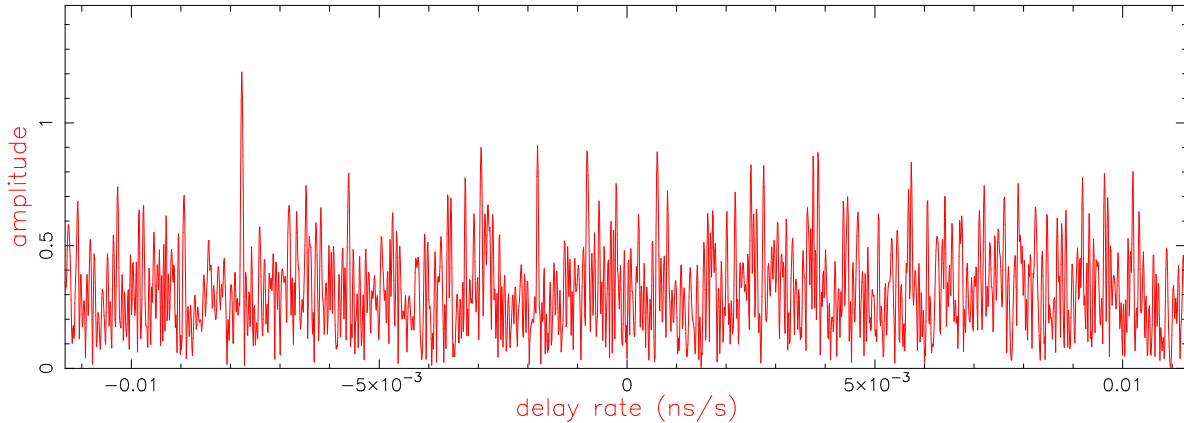
Group delay (usec)(sbd)	-1.13164886983E+04	Apriori delay (usec)	-1.13158423862E+04	Resid mbdelay (usec)	5.16377E-06	+/-	5.8E-03
Sband delay (usec)	-1.13164887035E+04	Apriori clock (usec)	-3.2328979E+01	Resid sbdelay (usec)	-6.46317E-01	+/-	5.8E-03
Phase delay (usec)	-1.13158423889E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-2.70477E-06	+/-	4.7E-07
Delay rate (us/s)	-1.18839393037E+00	Apriori rate (us/s)	-1.18839908743E+00	Resid rate (us/s)	5.15706E-06	+/-	2.7E-09
Total phase (deg)	307.3	Apriori accel (us/s/s)	7.67261909579E-05	Resid phase (deg)	358.8	+/-	14.6

ph/seg (deg)	RMS 93.2	Theor. 124.3	Amplitude Search (2048X8)	1.190 +/- 0.151	1.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.7	216.9	Interp.	0.000	1.084	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.514	1.084	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.181	1.084	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

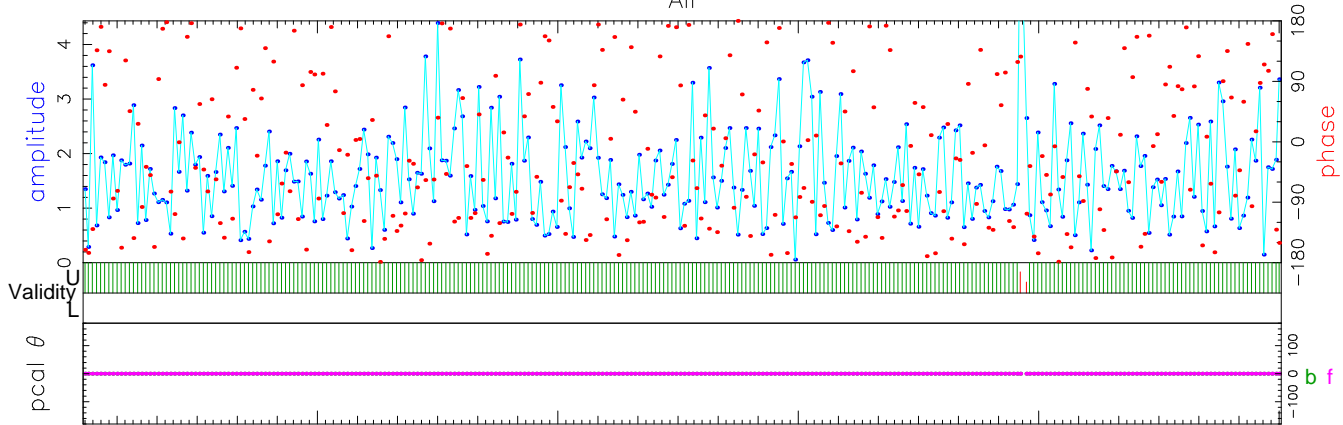
Fringe quality 8

SNR 8.7
Int time 296.266
Amp 1.478
Phase 314.0
PFD 5.1e-11
Delays (us)
SBD -0.197600
MBD -0.000006
Fringe rate (Hz)
-0.668625
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-114.7
0.4
1527.5
U/L 581/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UL

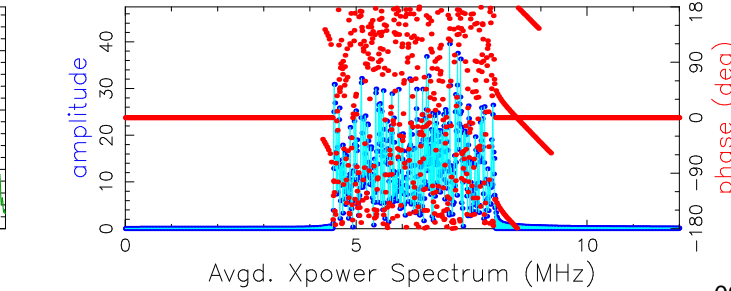
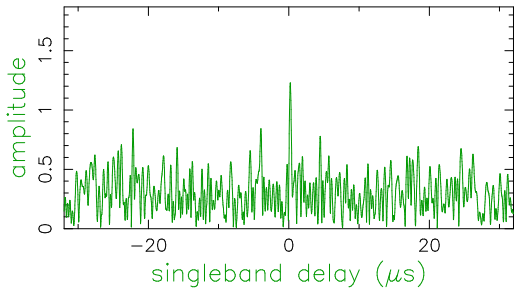
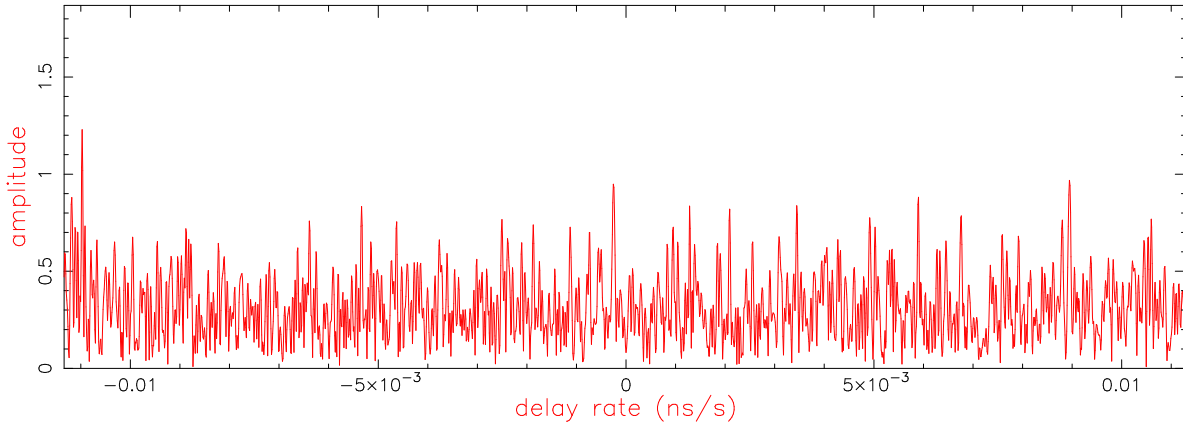
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.86928640437E+03	Apriori delay (usec)	-1.86908880361E+03	Resid mbdelay (usec)	-6.03245E-06	+/-	5.3E-03
Sband delay (usec)	-1.86928640361E+03	Apriori clock (usec)	-1.3251635E+01	Resid sbdelay (usec)	-1.97600E-01	+/-	5.3E-03
Phase delay (usec)	-1.86908880731E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-3.69865E-06	+/-	4.2E-07
Delay rate (us/s)	1.24076280793E-01	Apriori rate (us/s)	1.24084042867E-01	Resid rate (us/s)	-7.76207E-06	+/-	2.5E-09
Total phase (deg)	118.4	Apriori accel (us/s/s)	2.48544358379E-05	Resid phase (deg)	314.0	+/-	13.1

ph/seg (deg)	RMS 94.0	Theor. 112.1	Amplitude Search (2048X8)	1.478 +/- 0.170	1.202	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.1	195.7	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	6.6	Inc. seg. avg.	0.660	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011
amp/frq (%)	70.8	11.5	Inc. frq. avg.	1.466	Data rate(Mb/s): 48	ion window (TEC)	0.00 0.00

b: az 103.7 el 59.9 pa -52.0 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) -839.979 3059.608 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bf..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bf.W.9.1T5GR2

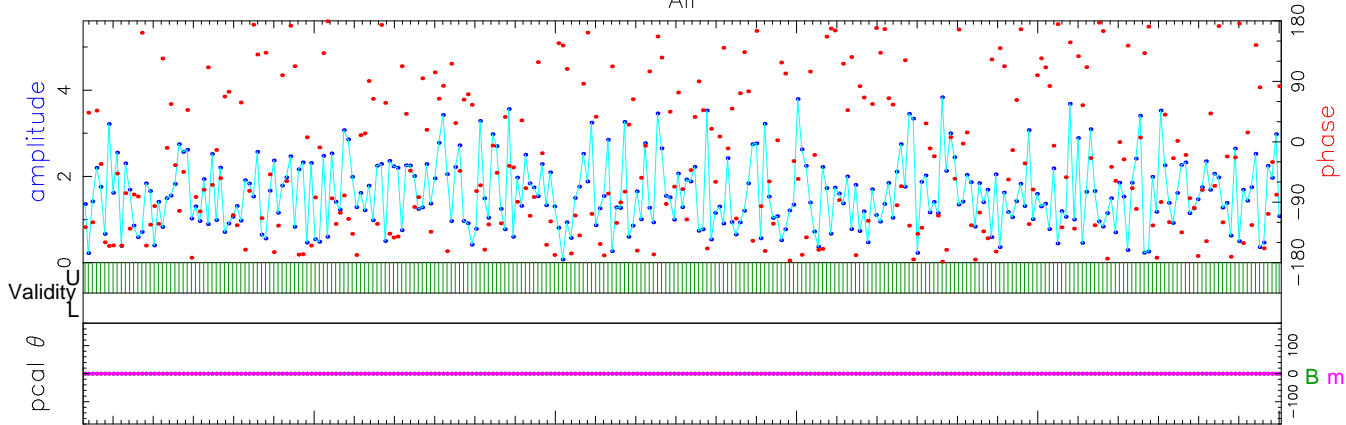
Fringe quality 8



SNR 8.9
Int time 296.984
Amp 1.869
Phase -66.8
PFD 1.3e-11
Delays (us)
SBD 0.205464
MBD -0.000005
Fringe rate (Hz)
-0.944102
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-111.5
0.5
1546.9
U/L 581/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UL

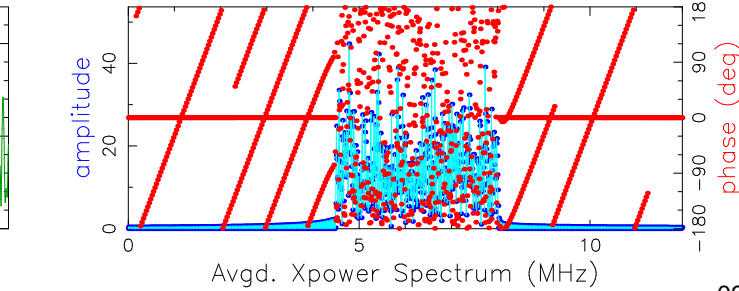
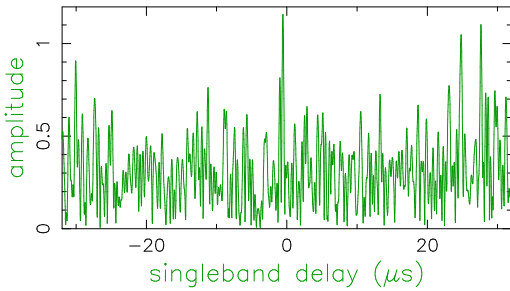
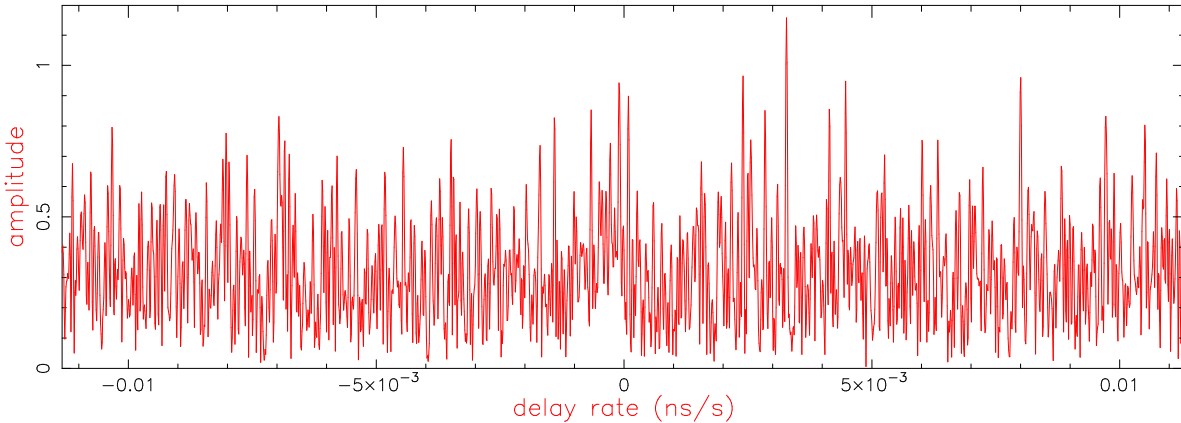
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.52511690135E+02	Apriori delay (usec)	-3.52717154740E+02	Resid mbdelay (usec)	-4.68030E-06	+/-	5.2E-03
Sband delay (usec)	-3.52511690740E+02	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	2.05464E-01	+/-	5.2E-03
Phase delay (usec)	-3.52717158335E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.59499E-06	+/-	4.2E-07
Delay rate (us/s)	-1.95690151484E+00	Apriori rate (us/s)	-1.95689055475E+00	Resid rate (us/s)	-1.09601E-05	+/-	2.4E-09
Total phase (deg)	-322.1	Apriori accel (us/s/s)	2.92651122794E-05	Resid phase (deg)	-66.8	+/-	12.9

ph/seg (deg)	94.7	Theor.	110.2	Amplitude	1.869 +/- 0.211	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.5	Search (2048X8)	1.229	Search	1.229	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.863	Inc. seg. avg.	0.863	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.857	Inc. frq. avg.	1.857	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

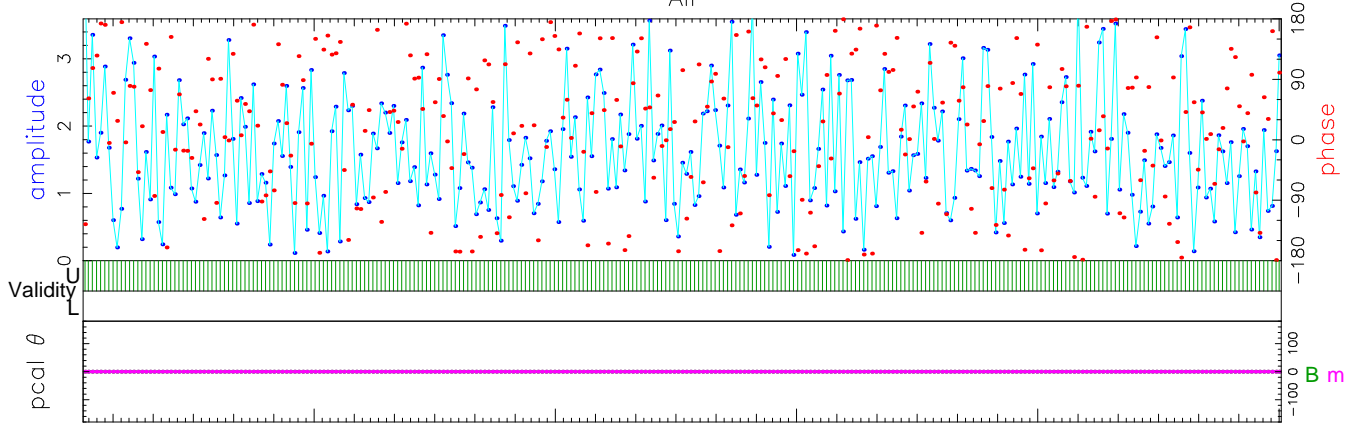
B: az 293.8 el 25.6 pa 44.9 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 13609.335 4672.756 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bm.W.11.1T5GR2

Fringe quality 8



SNR 8.4
Int time 296.984
Amp 1.198
Phase 270.4
PFD 1.1e-09
Delays (us)
SBD -0.558136
MBD 0.000007
Fringe rate (Hz)
0.281910
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
69.3
0.4
1510.2
U/L 581/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m 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)	-3.53275290937E+02	Apriori delay (usec)	-3.52717154740E+02	Resid mbdelay (usec)	6.84389E-06	+/-	5.5E-03
Sband delay (usec)	-3.53275290740E+02	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-5.58136E-01	+/-	5.5E-03
Phase delay (usec)	-3.52717152504E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.23565E-06	+/-	4.4E-07
Delay rate (us/s)	-1.95688728205E+00	Apriori rate (us/s)	-1.95689055475E+00	Resid rate (us/s)	3.27269E-06	+/-	2.6E-09
Total phase (deg)	15.0	Apriori accel (us/s/s)	2.92651122794E-05	Resid phase (deg)	270.4	+/-	13.7

ph/seg (deg)	RMS 93.2	Theor. 117.0	Amplitude Search (2048X8)	1.127	1.198 +/- 0.143	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.3	204.3	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.549		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.189		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

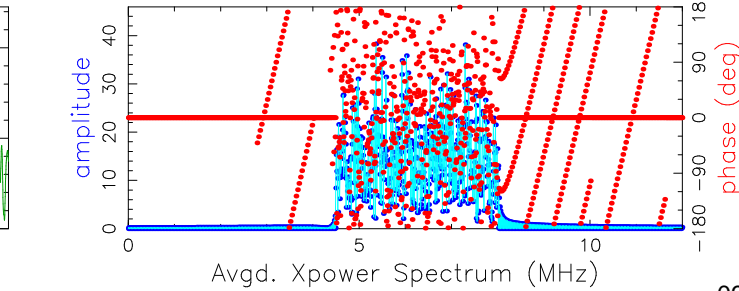
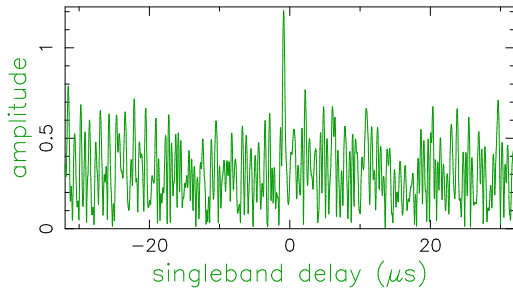
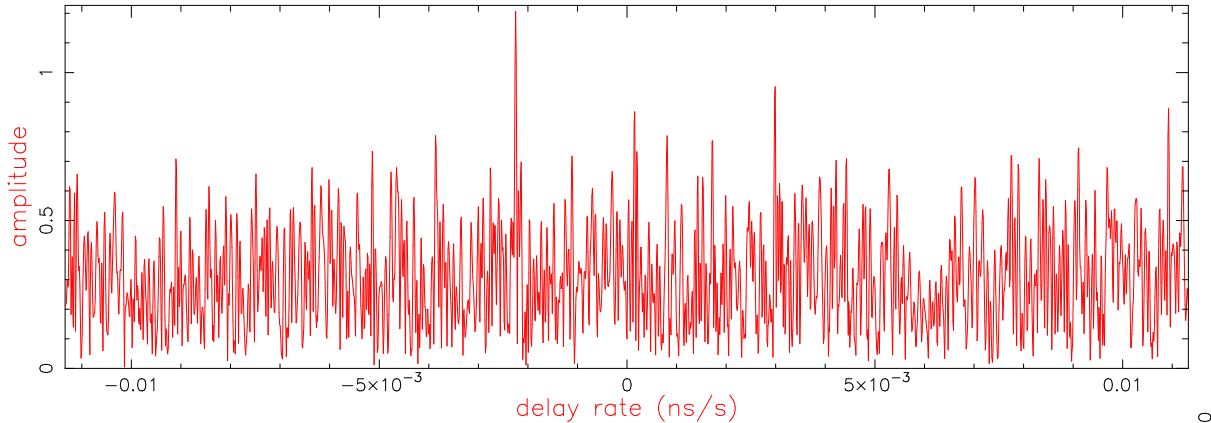
B: az 293.8 el 25.6 pa 44.9 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 13609.335 4672.756 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bm.W.19.1T5GR2

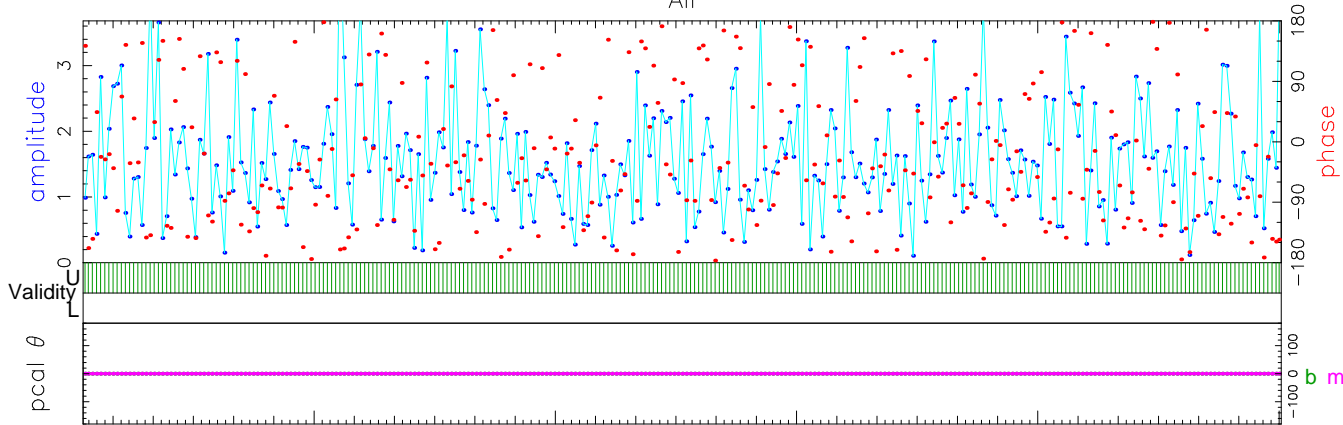
Fringe quality 8

SNR 8.7
Int time 296.984
Amp 1.227
Phase 140.7
PFD 5.4e-11
Delays (us)
SBD -0.880867
MBD -0.000005
Fringe rate (Hz)
-0.193678
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-87.9
0.4
1494.7
U/L 581/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UL

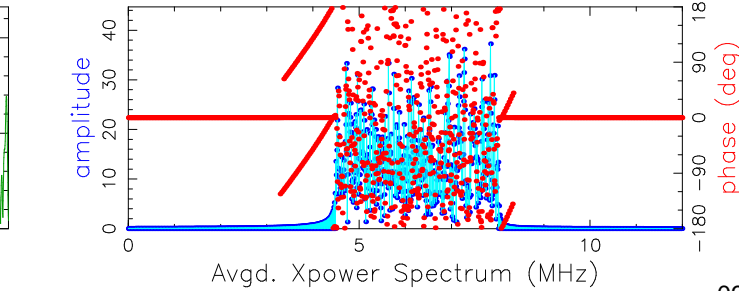
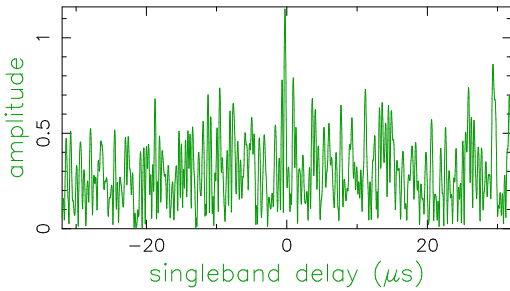
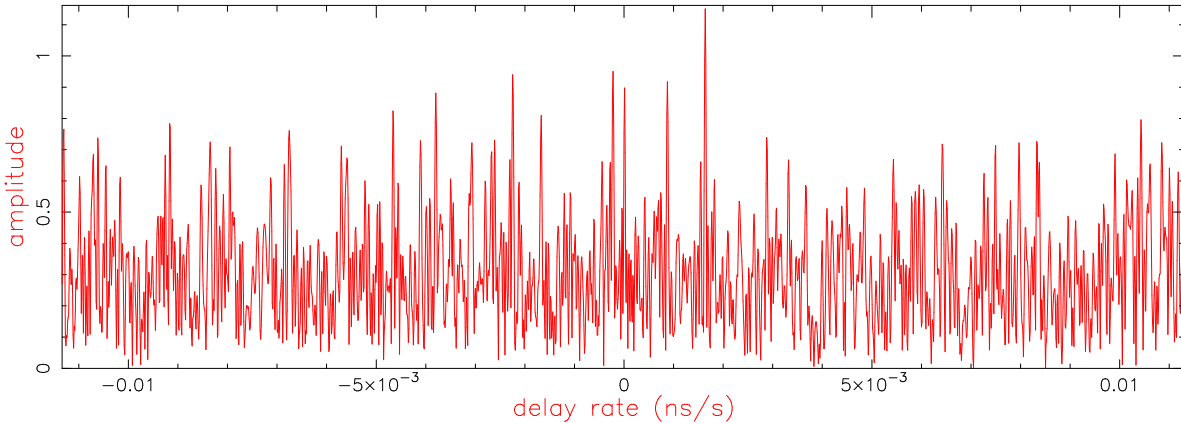
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.09315556204E+03	Apriori delay (usec)	9.09403642780E+03	Resid mbdelay (usec)	-4.77874E-06	+/-	5.3E-03
Sband delay (usec)	9.09315556113E+03	Apriori clock (usec)	-1.8707655E+01	Resid sbdelay (usec)	-8.80867E-01	+/-	5.3E-03
Phase delay (usec)	9.09403642497E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.83436E-06	+/-	4.2E-07
Delay rate (us/s)	-6.44409672865E-01	Apriori rate (us/s)	-6.44407424457E-01	Resid rate (us/s)	-2.24841E-06	+/-	2.5E-09
Total phase (deg)	101.3	Apriori accel (us/s/s)	-2.26066428406E-05	Resid phase (deg)	140.7	+/-	13.2

ph/seg (deg)	RMS 91.4	Theor. 112.2	Amplitude Search (2048X8)	1.227 +/- 0.141	1.198	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.2	195.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.549	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.218	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 4447.922 1725.339 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bm.W.32.1T5GR2

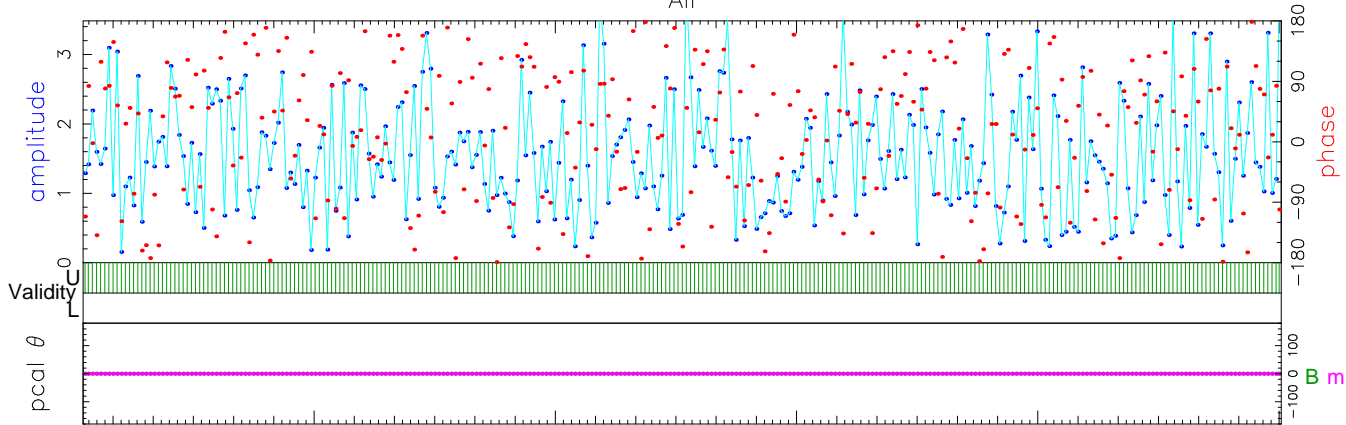
Fringe quality 8



SNR 8.3
Int time 296.984
Amp 1.162
Phase 88.7
PFD 1.6e-09
Delays (us)
SBD -0.264563
MBD 0.000006
Fringe rate (Hz)
0.141097
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
82.4
0.3
1524.3
U/L 581/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UR

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

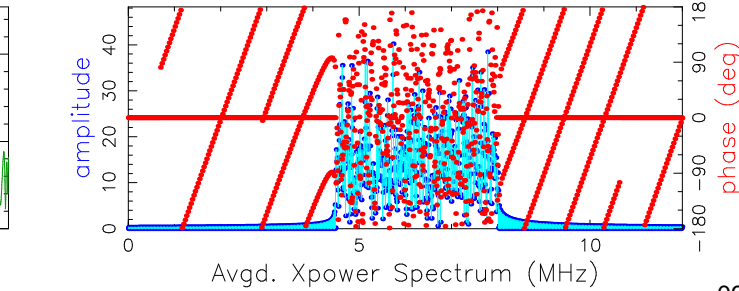
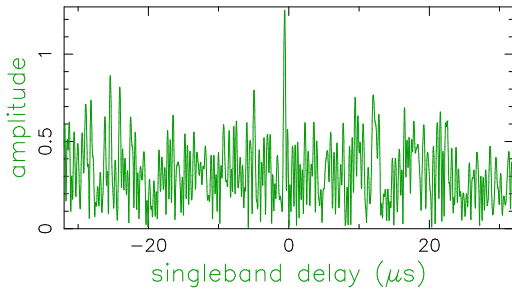
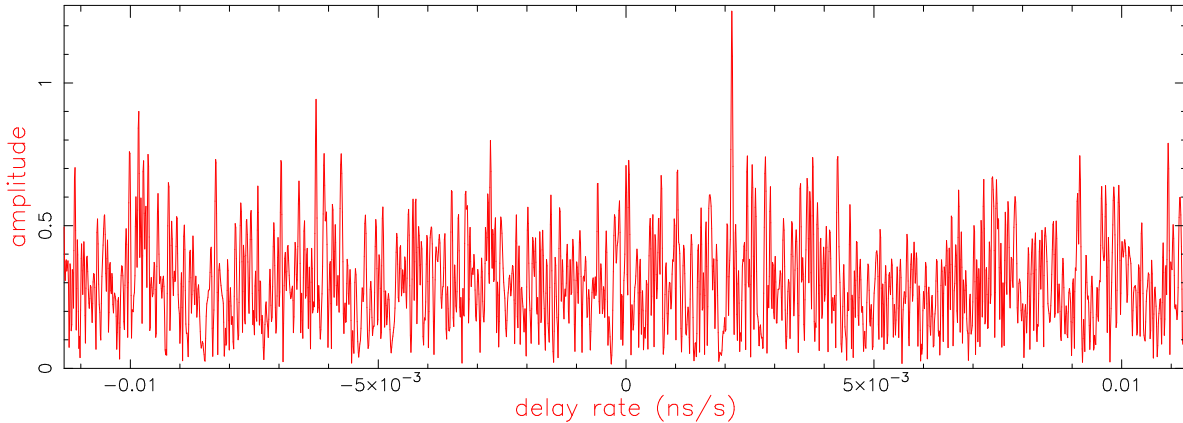
Group delay (usec)(sbd)	-3.52981717960E+02	Apriori delay (usec)	-3.52717154740E+02	Resid mbdelay (usec)	5.88196E-06	+/-	5.5E-03
Sband delay (usec)	-3.52981717406E+02	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-2.64563E-01	+/-	5.5E-03
Phase delay (usec)	-3.52717152084E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.65567E-06	+/-	4.4E-07
Delay rate (us/s)	-1.95688891675E+00	Apriori rate (us/s)	-1.95689055475E+00	Resid rate (us/s)	1.63800E-06	+/-	2.6E-09
Total phase (deg)	193.3	Apriori accel (us/s/s)	2.92651122794E-05	Resid phase (deg)	88.7	+/-	13.8

ph/seg (deg)	RMS 94.6	Theor. 117.6	Amplitude 1.162 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.1	205.3	Search (2048X8) 1.141	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. seg. avg. 0.504	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.152	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 293.8 el 25.6 pa 44.9 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 13609.335 4672.756 simultaneous interpolator

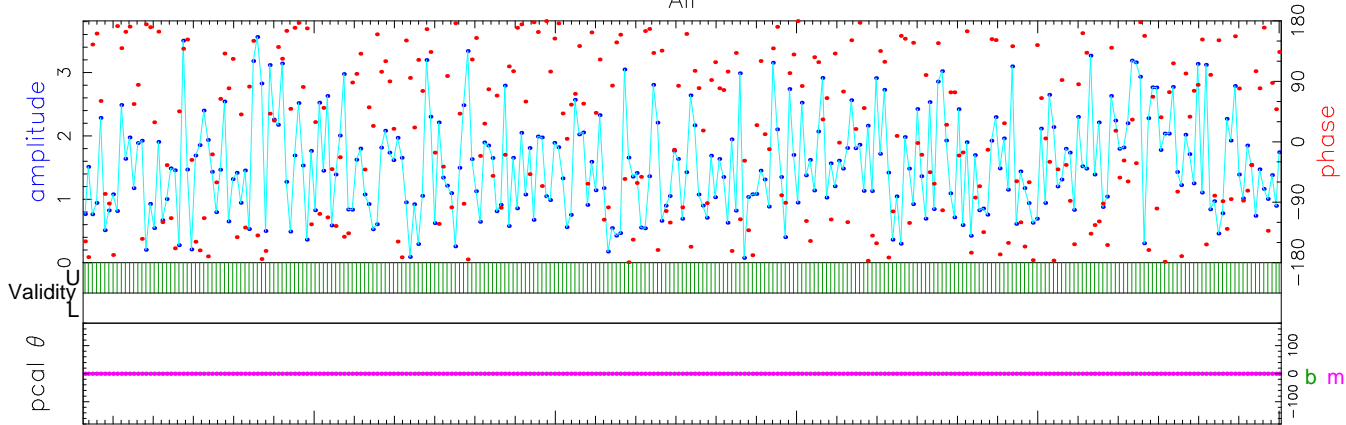
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bm.W.43.1T5GR2

Fringe quality 8



SNR 9.0
Int time 296.984
Amp 1.272
Phase 90.3
PFD 2.8e-12
Delays (us)
SBD -0.595551
MBD 0.000005
Fringe rate (Hz)
0.183518
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
157.5
0.4
1508.4
U/L 581/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UR

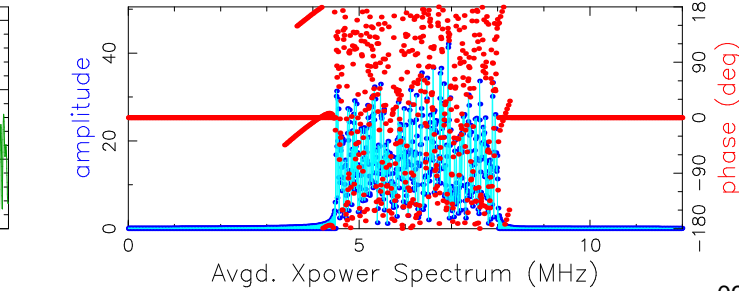
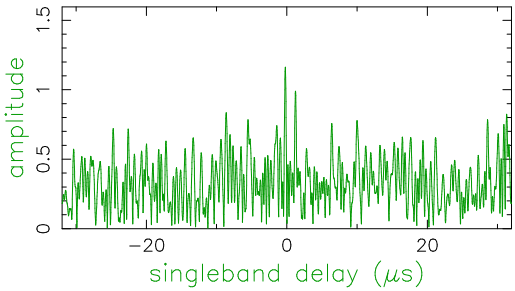
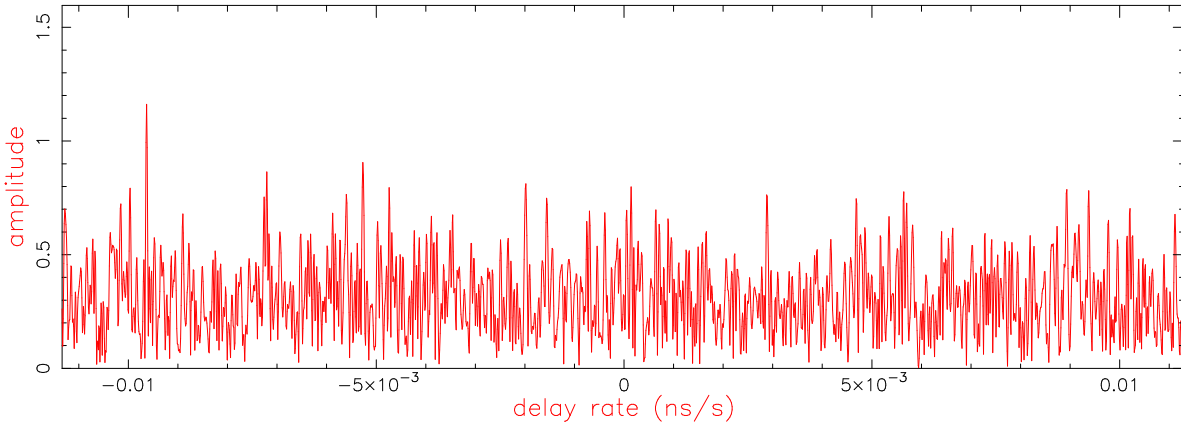
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.09344087647E+03	Apriori delay (usec)	9.09403642780E+03	Resid mbdelay (usec)	4.58557E-06	+/-	5.1E-03
Sband delay (usec)	9.09344087713E+03	Apriori clock (usec)	-1.8707655E+01	Resid sbdelay (usec)	-5.95551E-01	+/-	5.1E-03
Phase delay (usec)	9.09403643288E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.07932E-06	+/-	4.1E-07
Delay rate (us/s)	-6.44405293995E-01	Apriori rate (us/s)	-6.44407424457E-01	Resid rate (us/s)	2.13046E-06	+/-	2.4E-09
Total phase (deg)	51.0	Apriori accel (us/s/s)	-2.26066428406E-05	Resid phase (deg)	90.3	+/-	12.7

ph/seg (deg)	RMS 91.3	Theor. 108.1	Amplitude Search (2048X8)	1.272 +/- 0.141	1.222	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.4	188.7	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	6.3	Inc. seg. avg.	0.563	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.262	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	

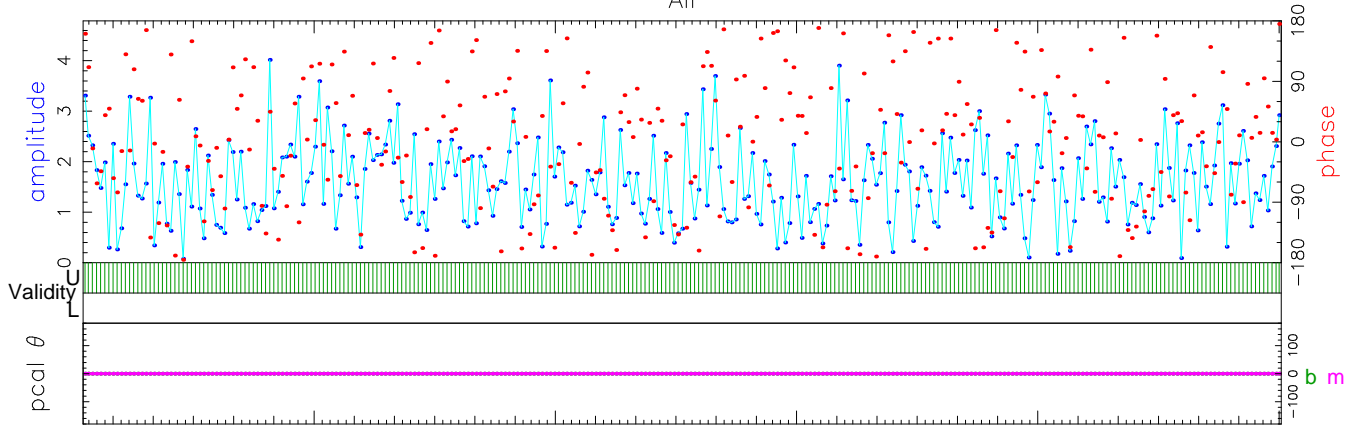
b: az 103.7 el 59.9 pa -52.0 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 4447.922 1725.339 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bm.W51.1T5GR2

Fringe quality 8



SNR 8.4
Int time 296.984
Amp 1.597
Phase 333.7
PFD 7.7e-10
Delays (us)
SBD -0.216871
MBD -0.000007
Fringe rate (Hz)
-0.828763
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
21.3
0.5
1526.6
U/L 581/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UR

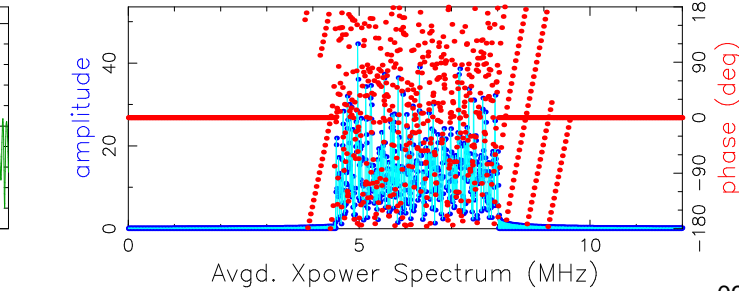
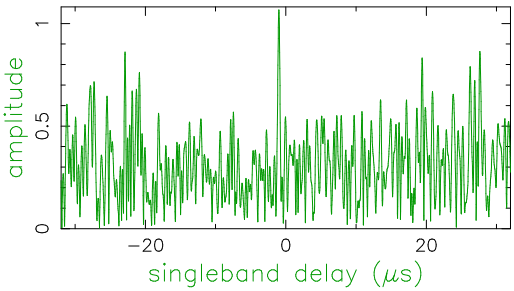
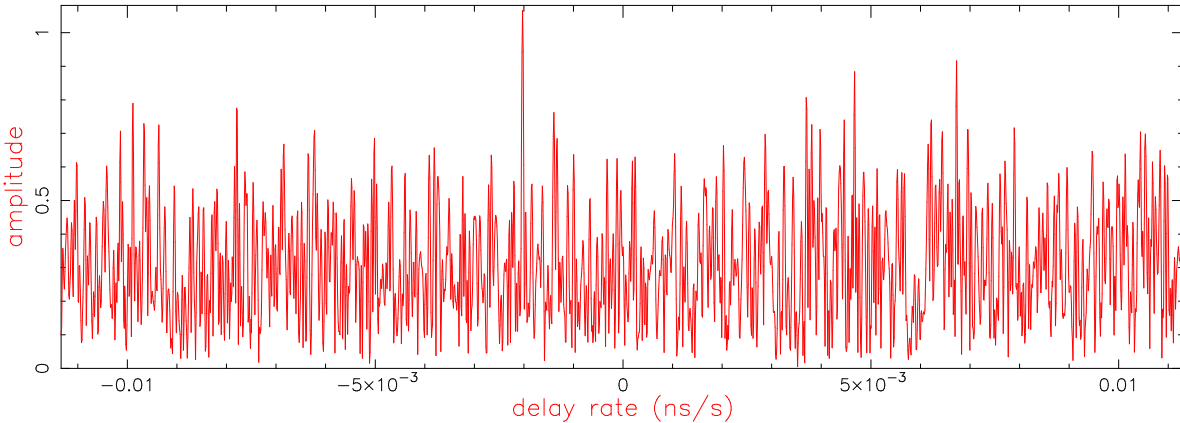
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.09381955170E+03	Apriori delay (usec)	9.09403642780E+03	Resid mbdelay (usec)	-6.67763E-06	+/- 5.5E-03
Sband delay (usec)	9.09381955713E+03	Apriori clock (usec)	-1.8707655E+01	Resid sbdelay (usec)	-2.16871E-01	+/- 5.5E-03
Phase delay (usec)	9.09403642849E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	6.87918E-07	+/- 4.4E-07
Delay rate (us/s)	-6.44417045568E-01	Apriori rate (us/s)	-6.44407424457E-01	Resid rate (us/s)	-9.62111E-06	+/- 2.6E-09
Total phase (deg)	294.3	Apriori accel (us/s/s)	-2.26066428406E-05	Resid phase (deg)	333.7	+/- 13.6

ph/seg (deg)	RMS 93.7	Theor. 116.4	Amplitude 1.597 +/- 0.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.8	203.1	Search (2048X8) 1.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.9	Inc. seg. avg. 0.717	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.582	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

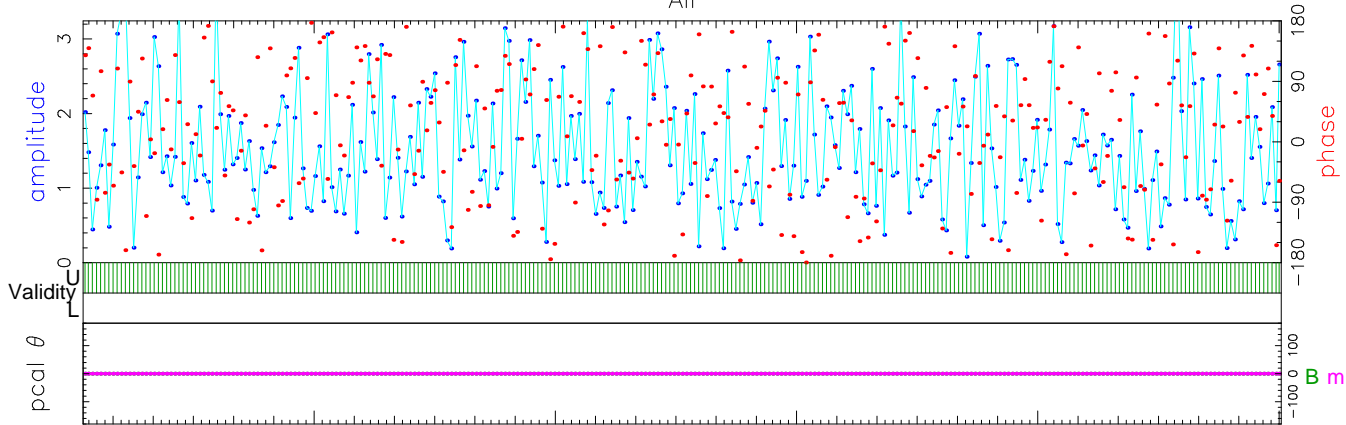
b: az 103.7 el 59.9 pa -52.0 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 4447.922 1725.339 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bm.W.58.1T5GR2

Fringe quality 8



SNR 7.7
Int time 296.984
Amp 1.081
Phase 48.1
PFD 2.1e-07
Delays (us)
SBD -0.988259
MBD -0.000007
Fringe rate (Hz)
-0.174016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
56.1
0.3
1489.6
U/L 581/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m 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)	-3.53705413687E+02	Apriori delay (usec)	-3.52717154740E+02	Resid mbdelay (usec)	-7.00774E-06	+/-	6.0E-03
Sband delay (usec)	-3.53705413406E+02	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-9.88259E-01	+/-	6.0E-03
Phase delay (usec)	-3.52717152932E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.80751E-06	+/-	4.8E-07
Delay rate (us/s)	-1.95689257490E+00	Apriori rate (us/s)	-1.95689055475E+00	Resid rate (us/s)	-2.02015E-06	+/-	2.8E-09
Total phase (deg)	152.8	Apriori accel (us/s/s)	2.92651122794E-05	Resid phase (deg)	48.1	+/-	14.9

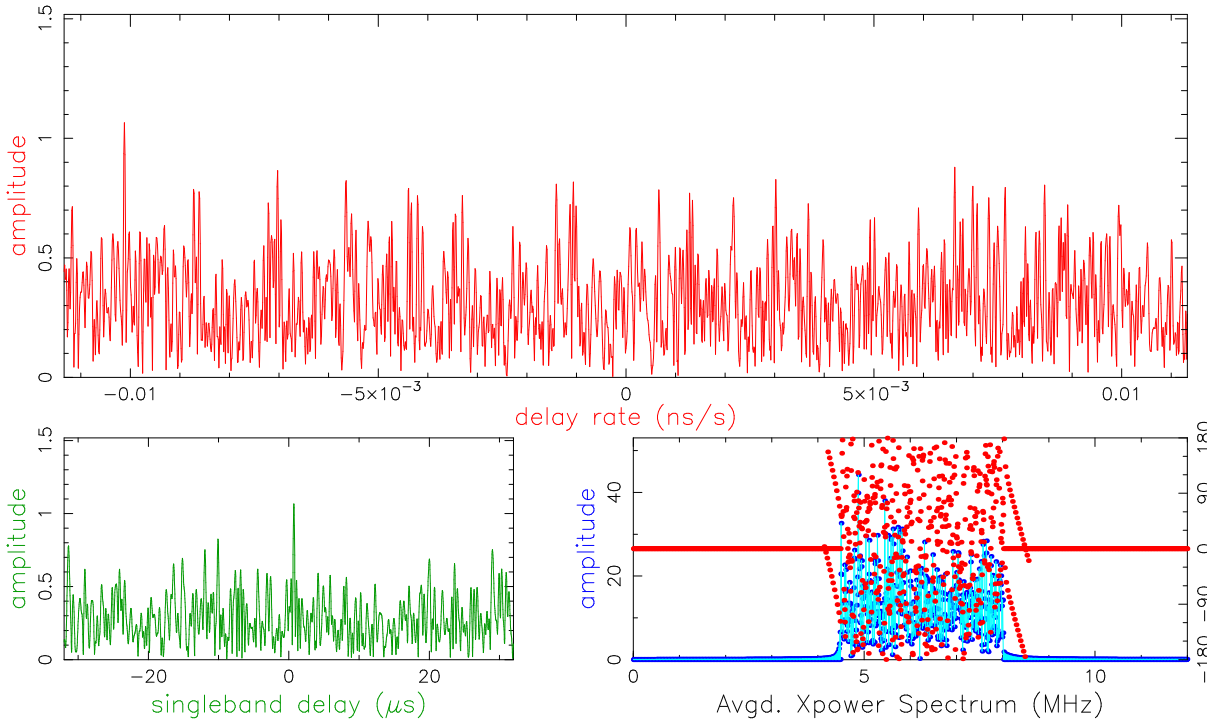
ph/seg (deg)	RMS 92.6	Theor. 126.9	Amplitude Search (2048X8)	1.081 +/- 0.140	1.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	87.5	221.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.449	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	13.0	Inc. frq. avg.	1.071	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011	
						nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 293.8 el 25.6 pa 44.9 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 13609.335 4672.756 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bm.W.62.1T5GR2

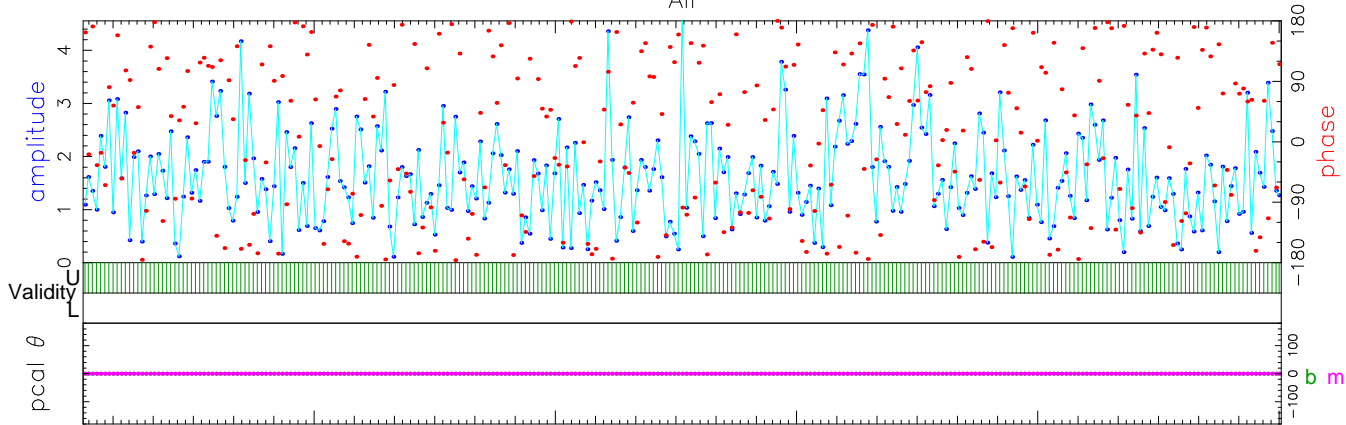
Fringe quality 8

SNR 7.7
Int time 296.984
Amp 1.519
Phase -27.1
PFD 2.0e-07
Delays (us)
SBD 0.718225
MBD -0.000007
Fringe rate (Hz)
-0.870744
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
147.9
0.4
1571.5
U/L 581/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UL

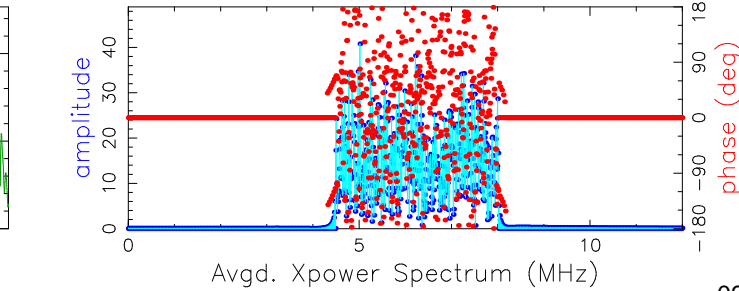
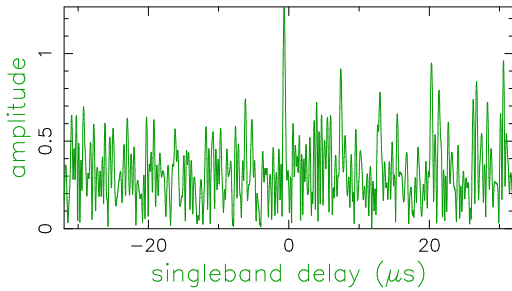
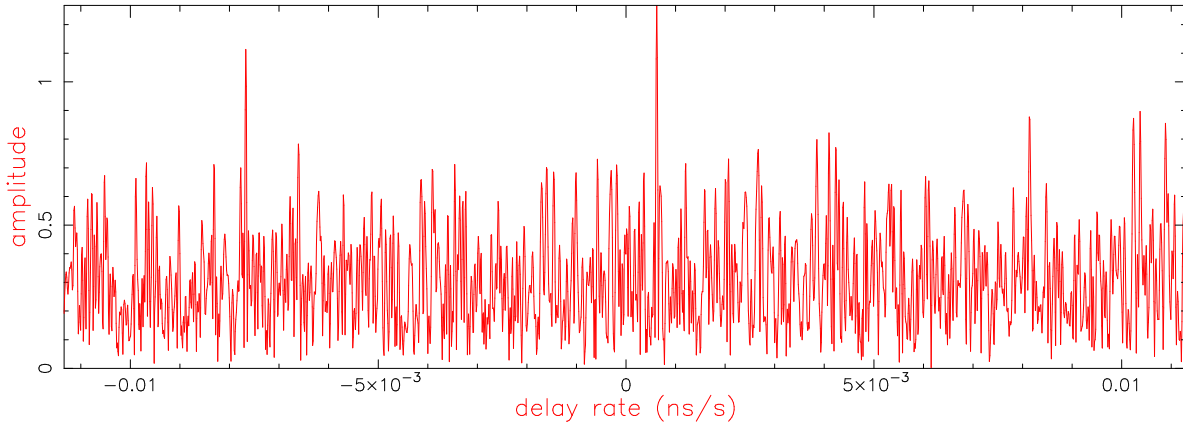
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.09475465266E+03	Apriori delay (usec)	9.09403642780E+03	Resid mbdelay (usec)	-7.24550E-06	+/- 6.0E-03
Sband delay (usec)	9.09475465313E+03	Apriori clock (usec)	-1.8707655E+01	Resid sbdelay (usec)	7.18225E-01	+/- 6.0E-03
Phase delay (usec)	9.09403643257E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.76995E-06	+/- 4.8E-07
Delay rate (us/s)	-6.44417532934E-01	Apriori rate (us/s)	-6.44407424457E-01	Resid rate (us/s)	-1.01085E-05	+/- 2.8E-09
Total phase (deg)	-66.5	Apriori accel (us/s/s)	-2.26066428406E-05	Resid phase (deg)	-27.1	+/- 14.9

ph/seg (deg)	RMS 93.9	Theor. 126.8	Amplitude Search (2048X8)	1.519 +/- 0.197	1.059	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	97.3	221.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.669	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	13.0	Inc. frq. avg.	1.502	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 4447.922 1725.339 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bm.W.75.1T5GR2

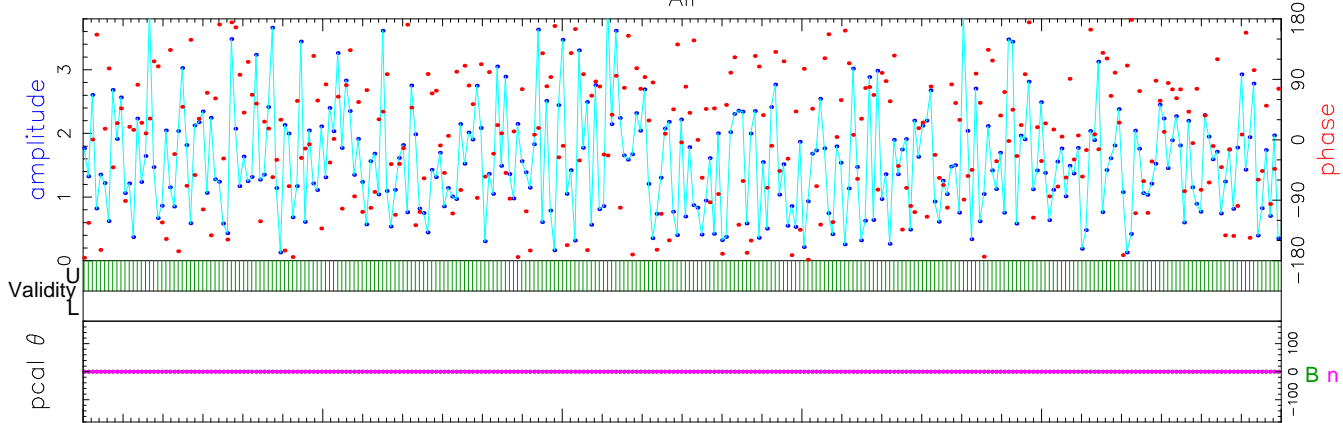
Fringe quality 8



SNR 9.2
Int time 299.973
Amp 1.267
Phase 194.9
PFD 8.4e-13
Delays (us)
SBD -0.672041
MBD 0.000007
Fringe rate (Hz)
0.053108
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051913
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
26.2
0.4
1504.7
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UL

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

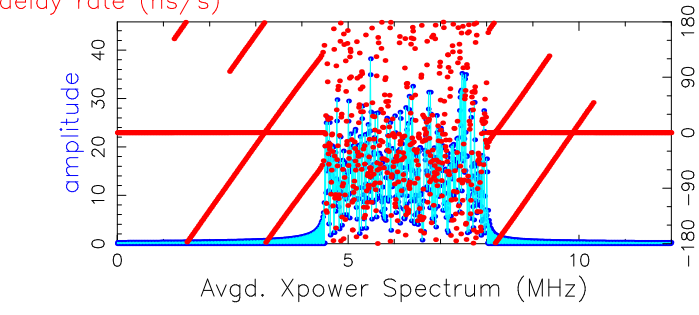
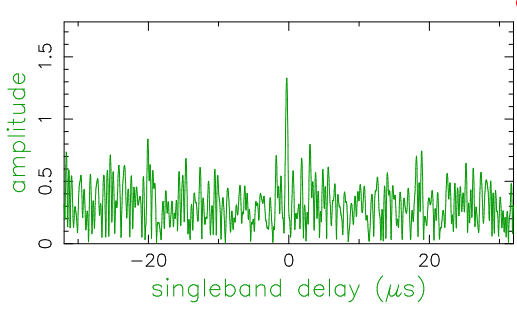
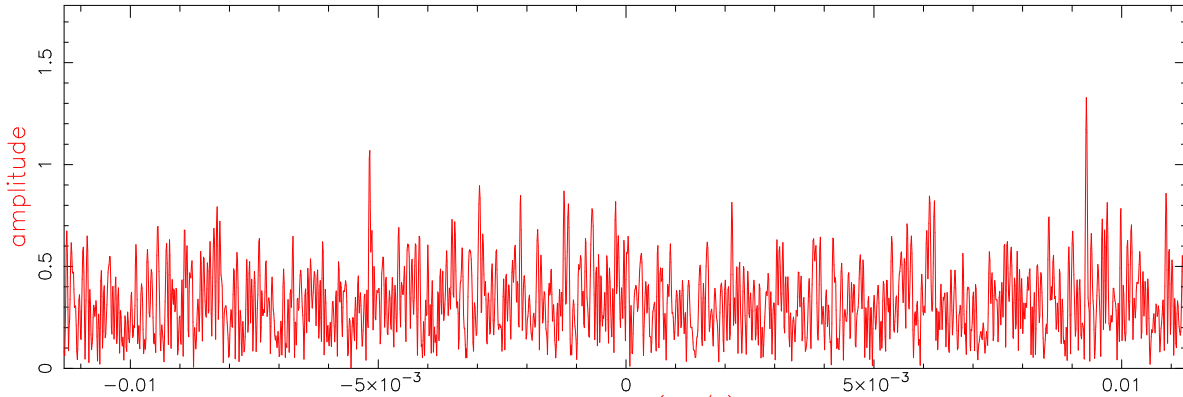
Group delay (usec)(sbd)	-1.19616014273E+04	Apriori delay (usec)	-1.19609293825E+04	Resid mbdelay (usec)	6.84862E-06	+/-	5.0E-03
Sband delay (usec)	-1.19616014238E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-6.72041E-01	+/-	5.0E-03
Phase delay (usec)	-1.19609293817E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.44915E-07	+/-	4.0E-07
Delay rate (us/s)	-9.38587713915E-01	Apriori rate (us/s)	-9.38588330443E-01	Resid rate (us/s)	6.16528E-07	+/-	2.3E-09
Total phase (deg)	191.4	Apriori accel (us/s/s)	7.02079311167E-05	Resid phase (deg)	194.9	+/-	12.5

ph/seg (deg)	RMS 91.5	Theor. 106.9	Amplitude Search (2048X8)	1.267 +/- 0.138	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.8	186.6	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	6.2	Inc. seg. avg.	0.574	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.259	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

B: az 293.8 el 25.6 pa 44.9 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 6582.467 4521.181 simultaneous interpolator

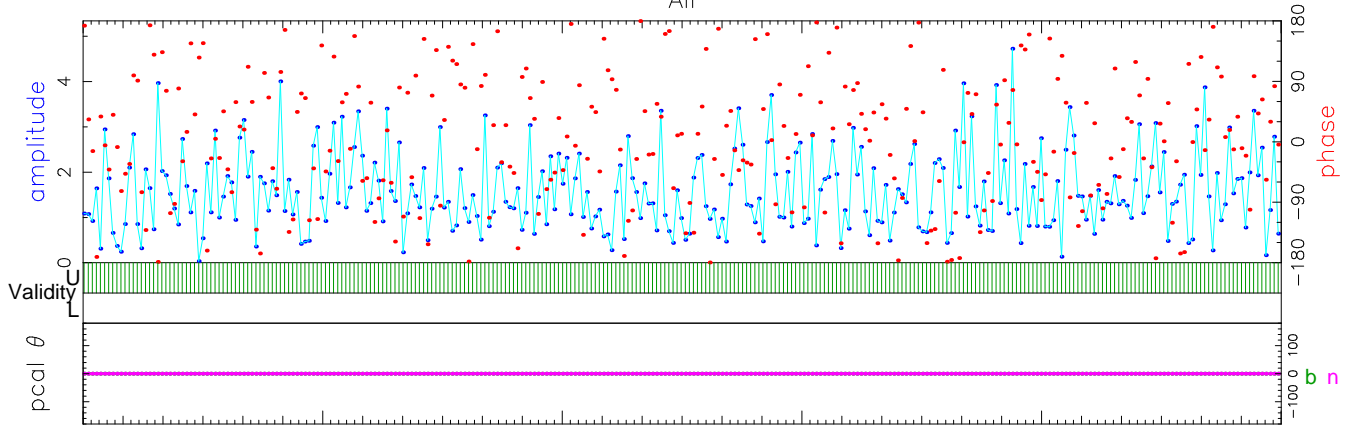
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bn.W.14.1T5GR2

Fringe quality 8



SNR 9.6
Int time 299.973
Amp 1.781
Phase 21.8
PFD 1.1e-14
Delays (us)
SBD -0.298737
MBD 0.000005
Fringe rate (Hz)
0.799342
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051915
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
25.1
0.5
1522.7
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n 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)	-2.51447454151E+03	Apriori delay (usec)	-2.51417579997E+03	Resid mbdelay (usec)	4.79794E-06	+/-	4.8E-03
Sband delay (usec)	-2.51447453731E+03	Apriori clock (usec)	-8.4746552E+00	Resid sbdelay (usec)	-2.98737E-01	+/-	4.8E-03
Phase delay (usec)	-2.51417579917E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	8.08400E-07	+/-	3.8E-07
Delay rate (us/s)	3.73904079421E-01	Apriori rate (us/s)	3.73894799850E-01	Resid rate (us/s)	9.27957E-06	+/-	2.2E-09
Total phase (deg)	234.3	Apriori accel (us/s/s)	1.83361759967E-05	Resid phase (deg)	21.8	+/-	11.9

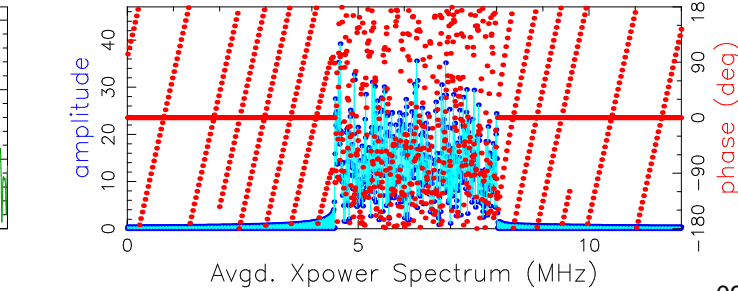
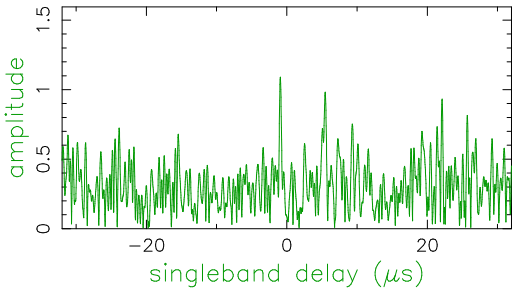
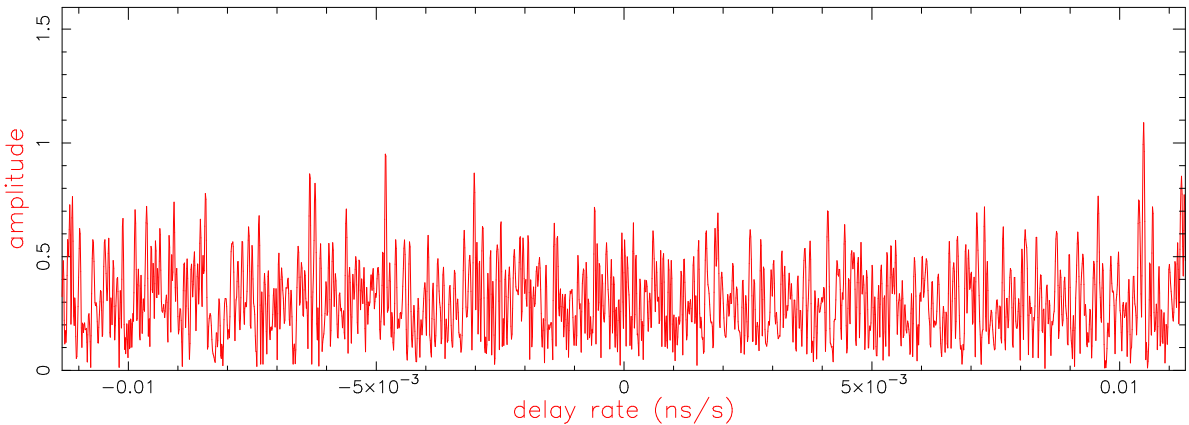
ph/seg (deg)	RMS 92.0	Theor. 101.8	Amplitude Search (2048X8)	1.781 +/- 0.185	1.311	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.4	177.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.822	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.4	Inc. frq. avg.	1.770	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -2578.946 1573.764 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bn.W.30.1T5GR2

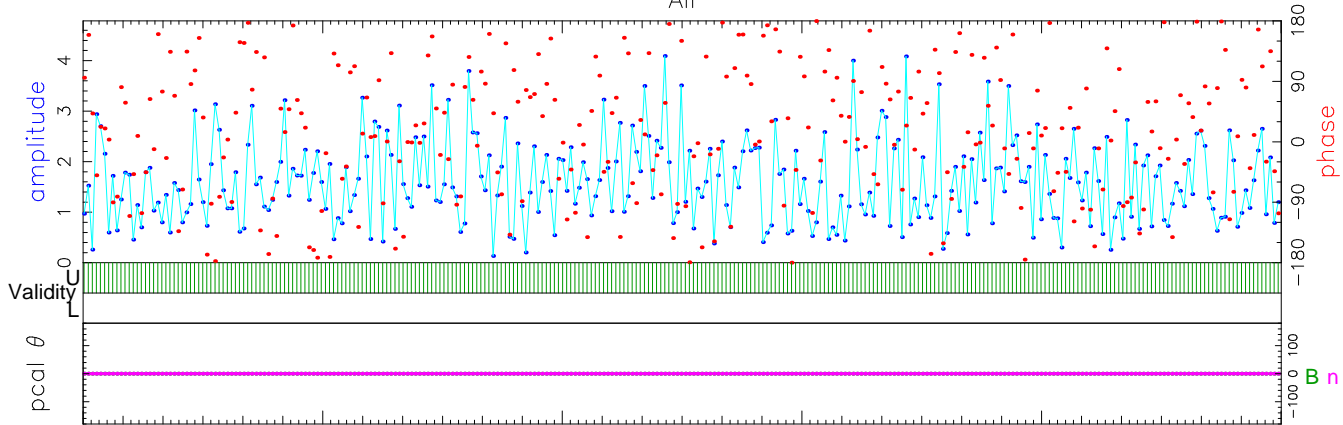
Fringe quality 8

SNR 7.9
Int time 299.973
Amp 1.596
Phase 230.9
PFD 4.0e-08
Delays (us)
SBD -0.925376
MBD 0.000004
Fringe rate (Hz)
0.902416
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
47.9
0.5
1492.6
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UR

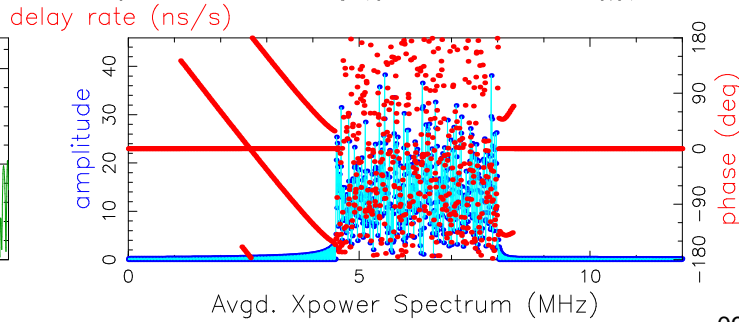
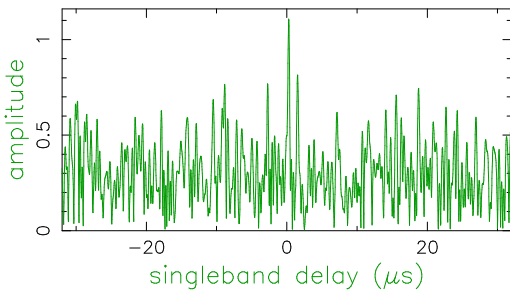
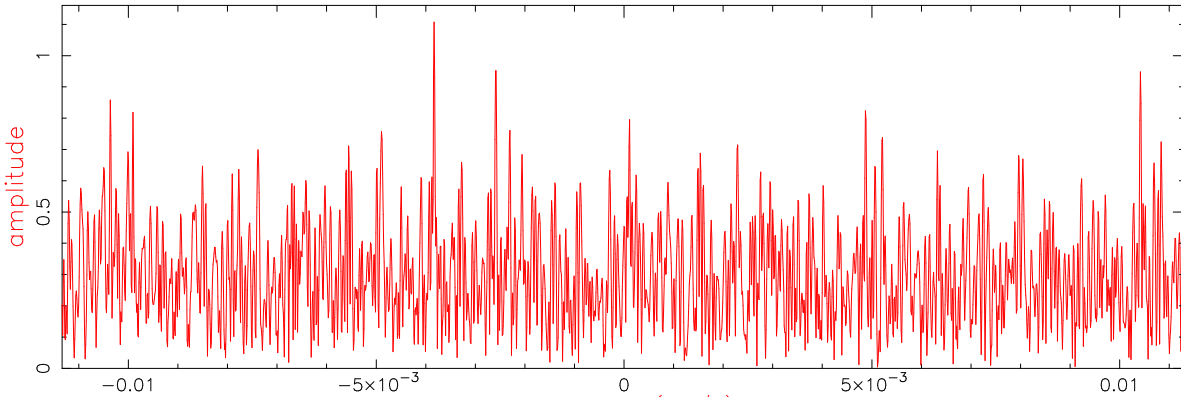
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19618547612E+04	Apriori delay (usec)	-1.19609293825E+04	Resid mbdelay (usec)	4.35061E-06	+/-	5.8E-03
Sband delay (usec)	-1.19618547585E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-9.25376E-01	+/-	5.8E-03
Phase delay (usec)	-1.19609293810E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.54371E-06	+/-	4.7E-07
Delay rate (us/s)	-9.38577854290E-01	Apriori rate (us/s)	-9.38588330443E-01	Resid rate (us/s)	1.04762E-05	+/-	2.7E-09
Total phase (deg)	227.4	Apriori accel (us/s/s)	7.02079311167E-05	Resid phase (deg)	230.9	+/-	14.5

ph/seg (deg)	RMS 92.5	Theor. 123.9	Amplitude Search (2048X8)	1.596 +/- 0.202	1.080	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.9	216.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.705	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.579	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

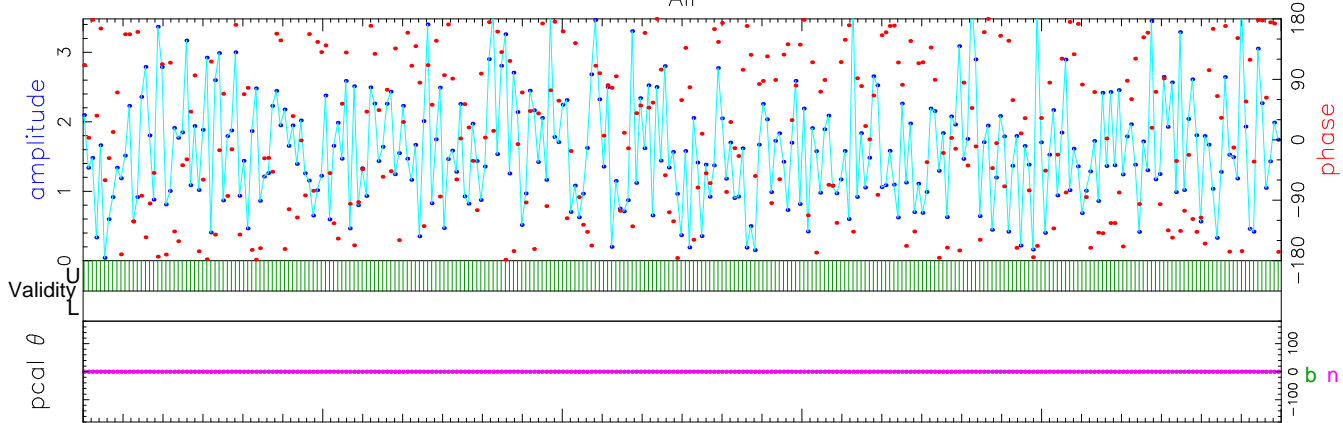
B: az 293.8 el 25.6 pa 44.9 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 6582.467 4521.181 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bn.W.44.1T5GR2

Fringe quality 8



SNR 8.0
Int time 299.973
Amp 1.161
Phase -133.1
PFD 1.6e-08
Delays (us)
SBD 0.273823
MBD -0.000006
Fringe rate (Hz)
-0.329391
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
163.0
0.3
1550.1
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UR

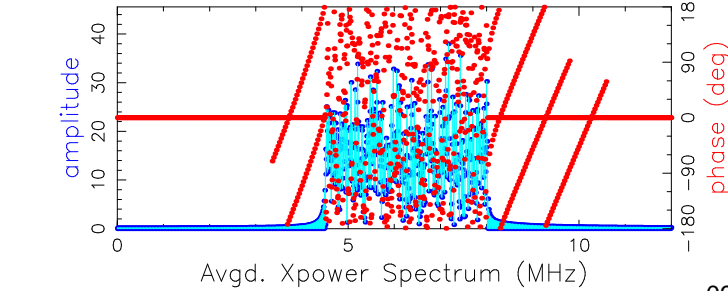
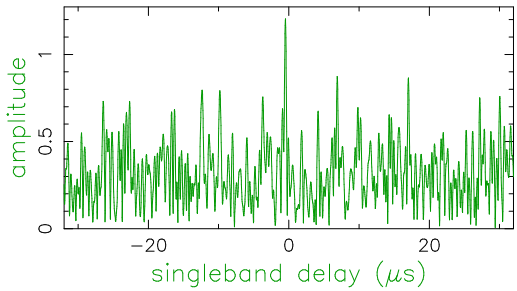
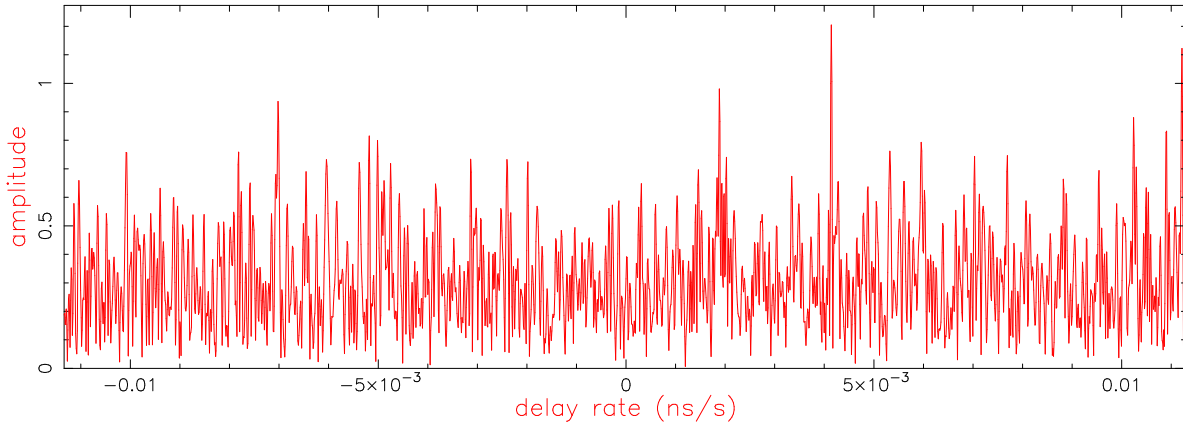
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.51390198257E+03	Apriori delay (usec)	-2.51417579997E+03	Resid mbdelay (usec)	-6.34122E-06	+/- 5.7E-03
Sband delay (usec)	-2.51390197731E+03	Apriori clock (usec)	-8.4746552E+00	Resid sbdelay (usec)	2.73823E-01	+/- 5.7E-03
Phase delay (usec)	-2.51417579472E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.25698E-06	+/- 4.6E-07
Delay rate (us/s)	3.73890975942E-01	Apriori rate (us/s)	3.73894799850E-01	Resid rate (us/s)	-3.82391E-06	+/- 2.7E-09
Total phase (deg)	-280.6	Apriori accel (us/s/s)	1.83361759967E-05	Resid phase (deg)	-133.1	+/- 14.3

ph/seg (deg)	RMS 94.8	Theor. 122.2	Amplitude 1.161 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.5	213.2	Search (2048X8) 1.067	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. seg. avg. 0.516	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.151	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

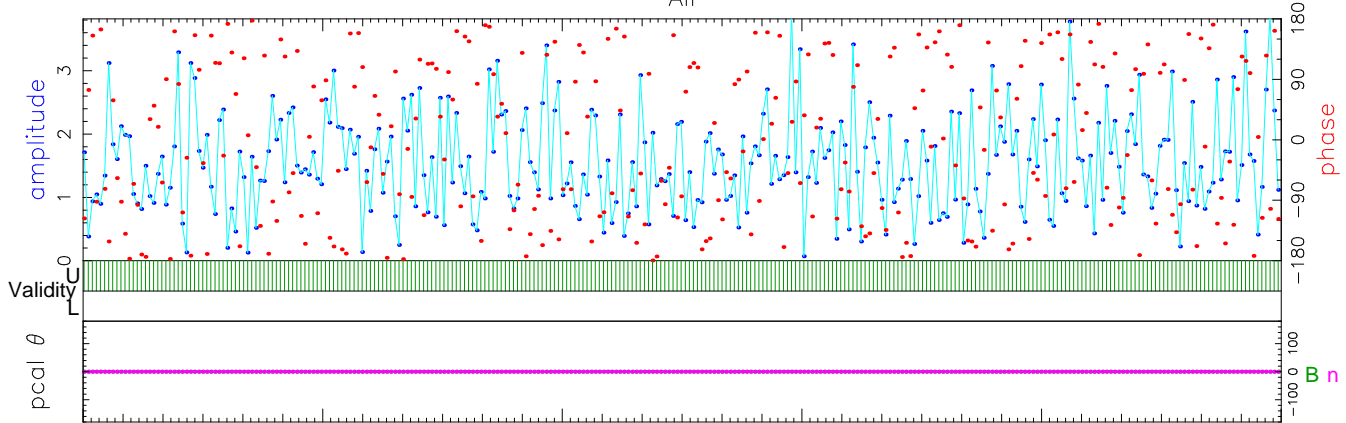
b: az 103.7 el 59.9 pa -52.0 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -2578.946 1573.764 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bn.W.47.1T5GR2

Fringe quality 8



SNR 8.7
Int time 299.973
Amp 1.273
Phase 166.8
PFD 4.3e-11
Delays (us)
SBD -0.482260
MBD 0.000004
Fringe rate (Hz)
0.356302
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051917
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-177.7
0.4
1513.8
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UR

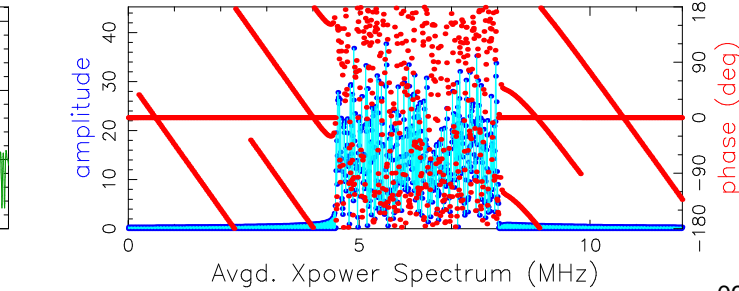
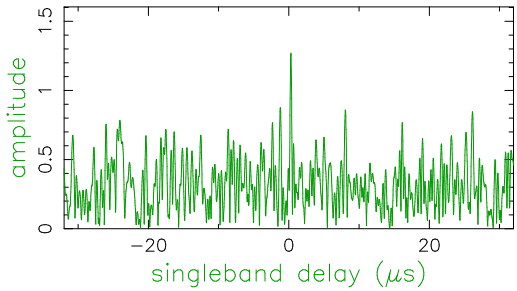
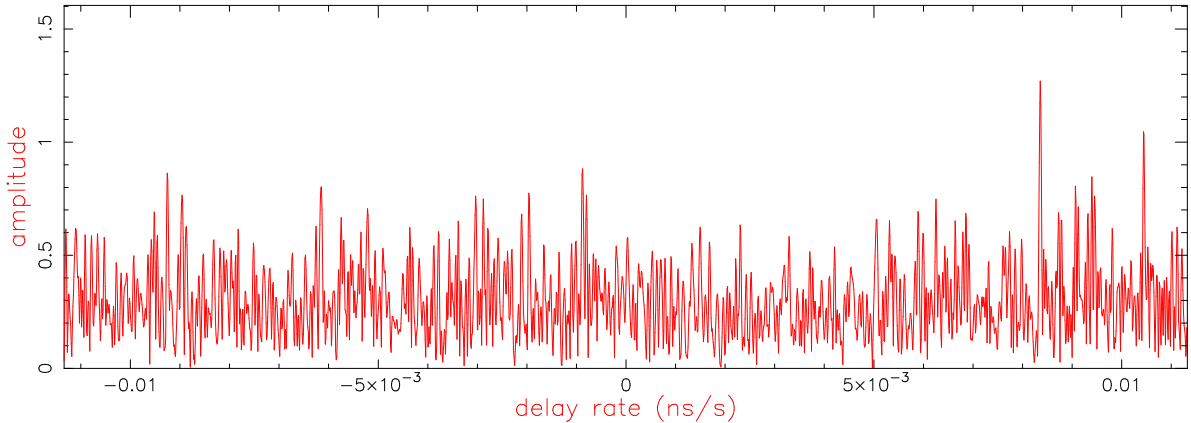
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19614116401E+04	Apriori delay (usec)	-1.19609293825E+04	Resid mbdelay (usec)	4.35096E-06	+/-	5.3E-03
Sband delay (usec)	-1.19614116425E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-4.82260E-01	+/-	5.3E-03
Phase delay (usec)	-1.19609293882E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.72984E-06	+/-	4.2E-07
Delay rate (us/s)	-9.38584194129E-01	Apriori rate (us/s)	-9.38588330443E-01	Resid rate (us/s)	4.13631E-06	+/-	2.4E-09
Total phase (deg)	163.3	Apriori accel (us/s/s)	7.02079311167E-05	Resid phase (deg)	166.8	+/-	13.1

ph/seg (deg)	90.2	RMS	71.0	Theor.	112.3	Amplitude	1.273 +/- 0.146	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	71.0	Search (2048X8)	1.161	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.565	Inc. frq. avg.	1.265	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.265	Sample rate(MISamp/s):	24	Data rate(Mb/s):	48	nlags:	1536	t_cohere	infinite

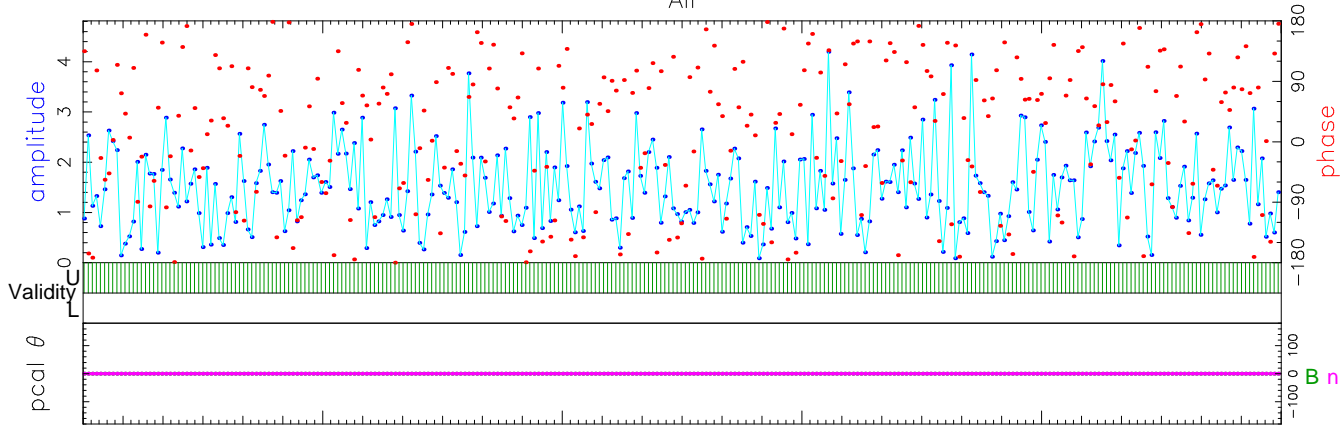
B: az 293.8 el 25.6 pa 44.9 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 6582.467 4521.181 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bn.W.50.1T5GR2

Fringe quality 8



SNR 9.2
Int time 299.973
Amp 1.605
Phase -100.8
PFD 6.1e-13
Delays (us)
SBD 0.293596
MBD 0.000007
Fringe rate (Hz) 0.719045
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
94.3
0.5
1551.1
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UL

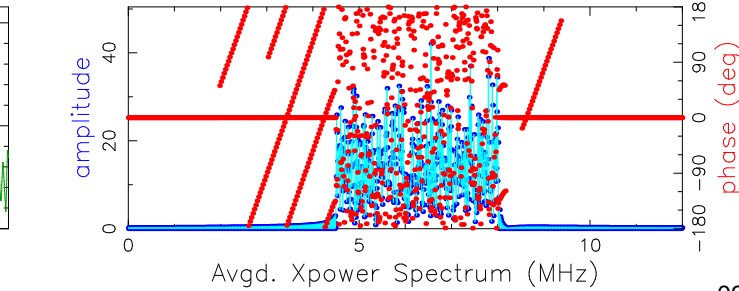
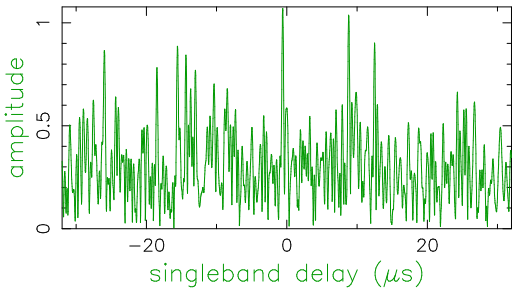
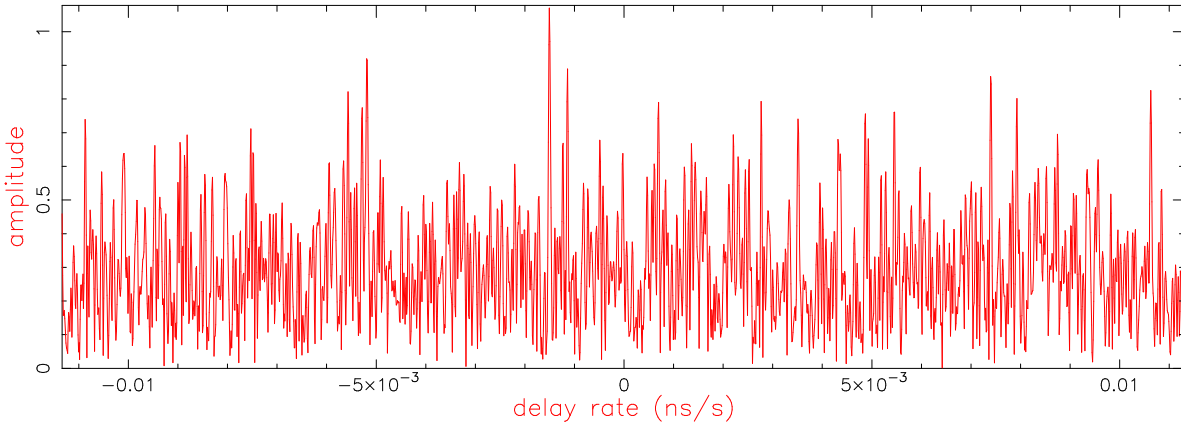
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19606357901E+04	Apriori delay (usec)	-1.19609293825E+04	Resid mbdelay (usec)	6.87970E-06	+/-	5.0E-03
Sband delay (usec)	-1.19606357865E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	2.93596E-01	+/-	5.0E-03
Phase delay (usec)	-1.19609293795E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.04092E-06	+/-	4.0E-07
Delay rate (us/s)	-9.38579983045E-01	Apriori rate (us/s)	-9.38588330443E-01	Resid rate (us/s)	8.34740E-06	+/-	2.3E-09
Total phase (deg)	-104.3	Apriori accel (us/s/s)	7.02079311167E-05	Resid phase (deg)	-100.8	+/-	12.4

ph/seg (deg)	RMS 90.8	Theor. 106.5	Amplitude Search (2048X8)	1.605 +/- 0.174	1.267	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.0	185.9	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.704	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.595	0.000	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

B: az 293.8 el 25.6 pa 44.9 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 6582.467 4521.181 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bn.W.69.1T5GR2

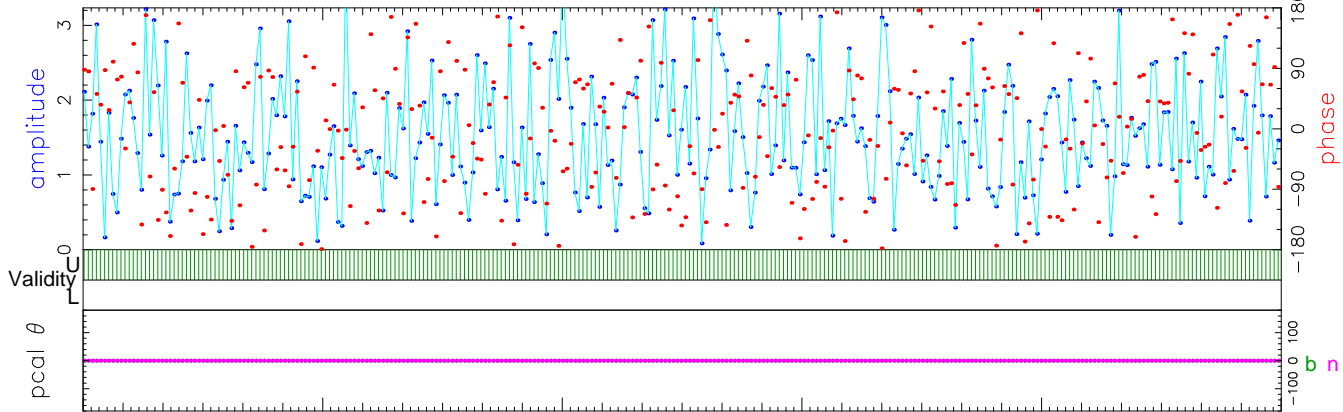
Fringe quality 8



SNR 7.8
Int time 299.973
Amp 1.078
Phase 302.2
PFD 1.3e-07
Delays (us)
SBD -0.584711
MBD -0.000007
Fringe rate (Hz)
-0.129623
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
-10.6
0.3
1508.9
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UR

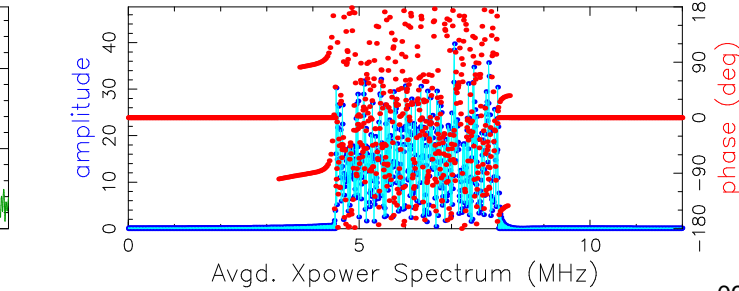
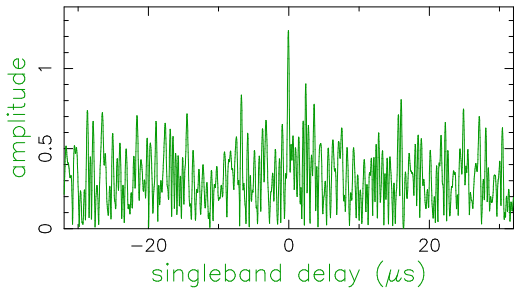
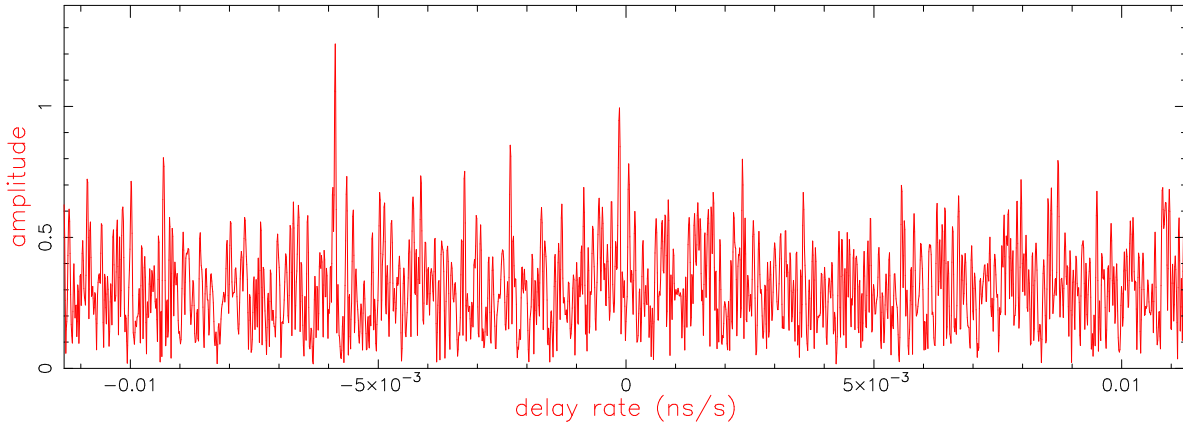
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.51476050806E+03	Apriori delay (usec)	-2.51417579997E+03	Resid mbdelay (usec)	-7.24291E-06	+/-	5.9E-03
Sband delay (usec)	-2.51476051064E+03	Apriori clock (usec)	-8.4746552E+00	Resid sbdelay (usec)	-5.84711E-01	+/-	5.9E-03
Phase delay (usec)	-2.51417580032E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.41560E-07	+/-	4.8E-07
Delay rate (us/s)	3.73893295060E-01	Apriori rate (us/s)	3.73894799850E-01	Resid rate (us/s)	-1.50479E-06	+/-	2.7E-09
Total phase (deg)	154.7	Apriori accel (us/s/s)	1.83361759967E-05	Resid phase (deg)	302.2	+/-	14.8

ph/seg (deg)	RMS 92.1	Theor. 126.4	Amplitude Search (2048X8)	1.078 +/- 0.139	1.060	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.2	220.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.452	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.9	Inc. frq. avg.	1.069	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -2578.946 1573.764 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bn.W.77.1T5GR2

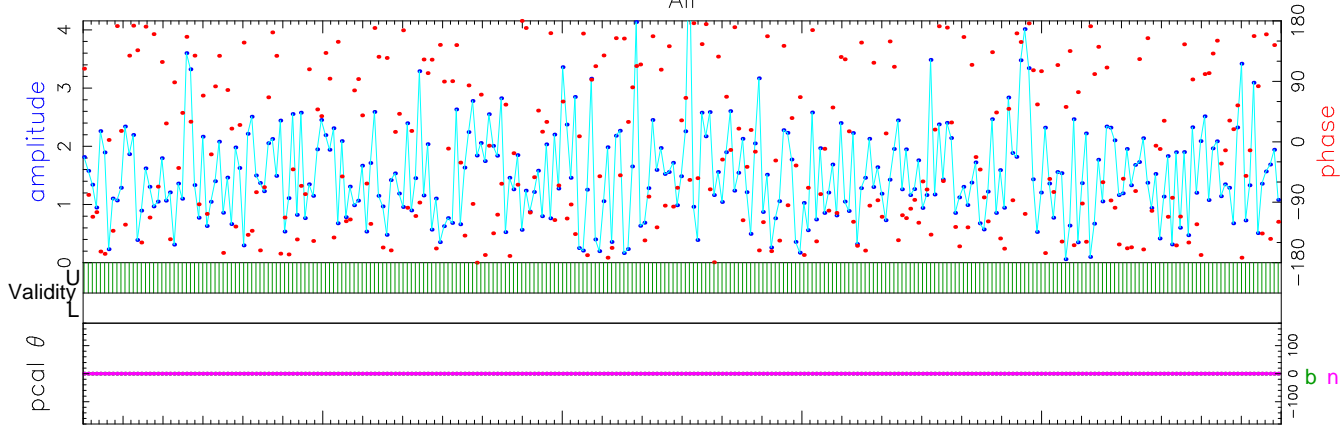
Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.385
Phase 332.4
PFD 5.1e-12
Delays (us)
SBD -0.061817
MBD -0.000004
Fringe rate (Hz)
-0.504937
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
-163.6
0.4
1534.0
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UL

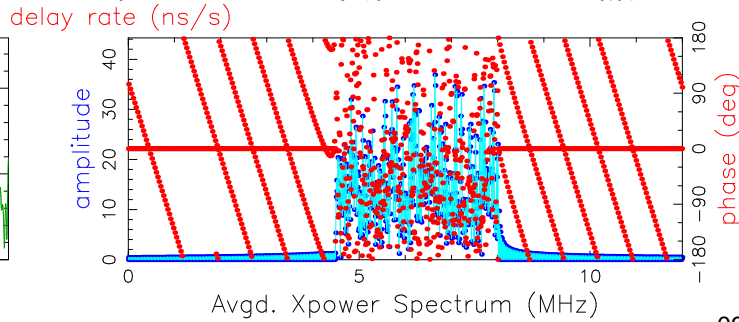
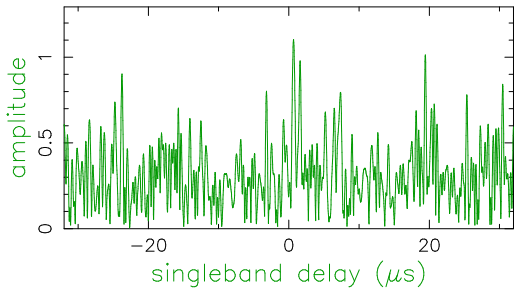
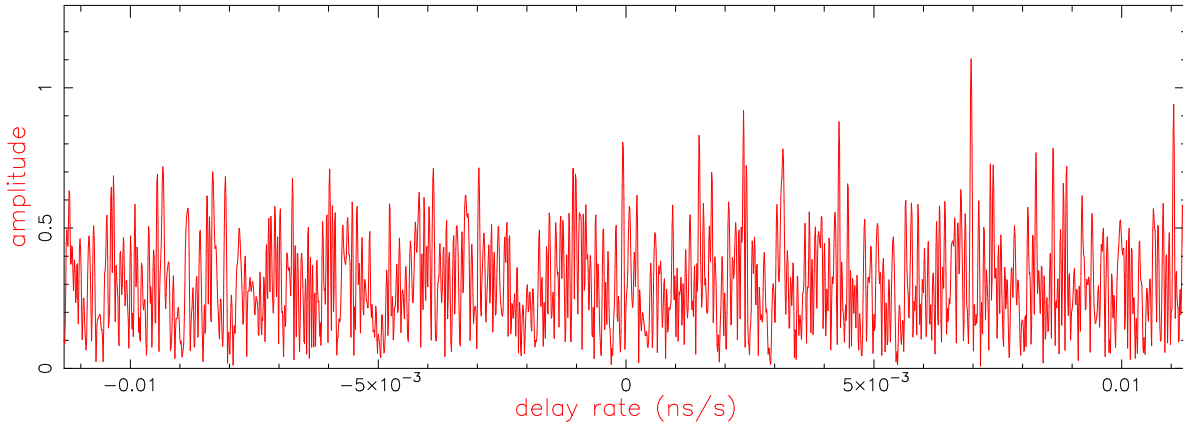
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.51423761793E+03	Apriori delay (usec)	-2.51417579997E+03	Resid mbdelay (usec)	-4.37037E-06	+/-	5.1E-03
Sband delay (usec)	-2.51423761731E+03	Apriori clock (usec)	-8.4746552E+08	Resid sbdelay (usec)	-6.18173E-02	+/-	5.1E-03
Phase delay (usec)	-2.51417580525E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.27510E-06	+/-	4.1E-07
Delay rate (us/s)	3.73888938030E-01	Apriori rate (us/s)	3.73894799850E-01	Resid rate (us/s)	-5.86182E-06	+/-	2.4E-09
Total phase (deg)	184.9	Apriori accel (us/s/s)	1.83361759967E-05	Resid phase (deg)	332.4	+/-	12.8

ph/seg (deg)	RMS 91.7	Theor. 109.3	Amplitude Search (2048X8)	1.385 +/- 0.154	1.191	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.2	190.7	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	6.4	Inc. seg. avg.	0.603	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.377	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

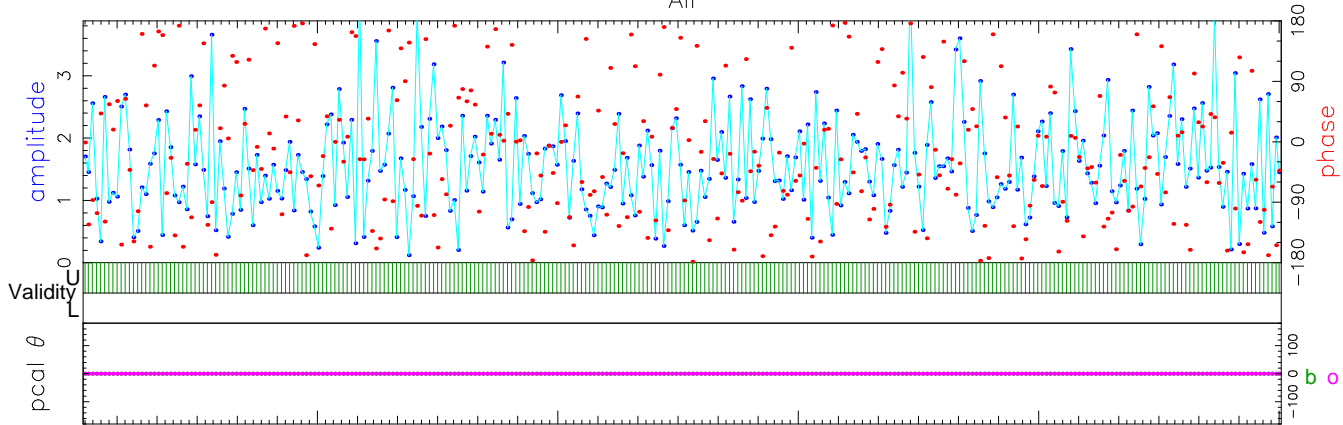
b: az 103.7 el 59.9 pa -52.0 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -2578.946 1573.764 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bn.W.95.1T5GR2

Fringe quality 8



SNR 8.0
Int time 297.975
Amp 1.294
Phase -129.9
PFD 2.6e-08
Delays (us)
SBD 0.668907
MBD 0.000005
Fringe rate (Hz)
0.599212
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051914
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



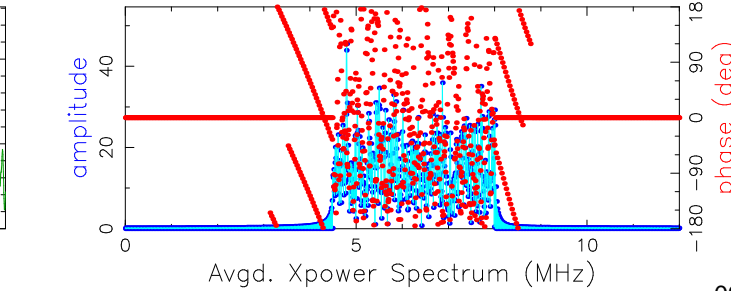
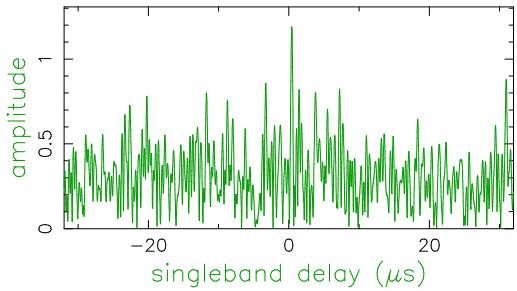
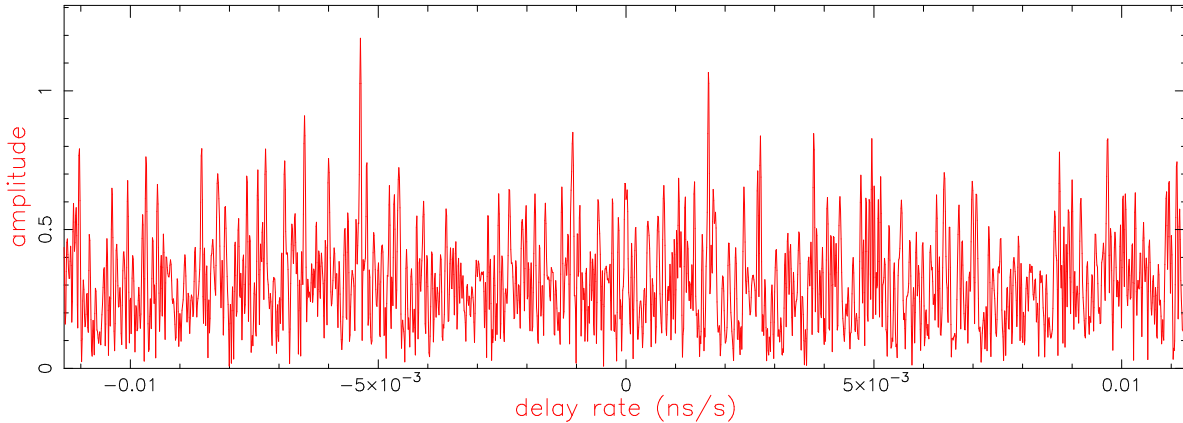
86227.00
-60.0
0.4
1569.1
U/L 583/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UL

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)	-3.64995633392E+02	Apriori delay (usec)	-3.65664535786E+02	Resid mbdelay (usec)	5.18111E-06	+/-	5.8E-03
Sband delay (usec)	-3.64995629119E+02	Apriori clock (usec)	-6.7456551E+00	Resid sbdelay (usec)	6.68907E-01	+/-	5.8E-03
Phase delay (usec)	-3.65664537721E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.93484E-06	+/-	4.6E-07
Delay rate (us/s)	-7.50887480292E-02	Apriori rate (us/s)	-7.50957042886E-02	Resid rate (us/s)	6.95626E-06	+/-	2.7E-09
Total phase (deg)	-170.4	Apriori accel (us/s/s)	1.08128014412E-05	Resid phase (deg)	-129.9	+/-	14.4

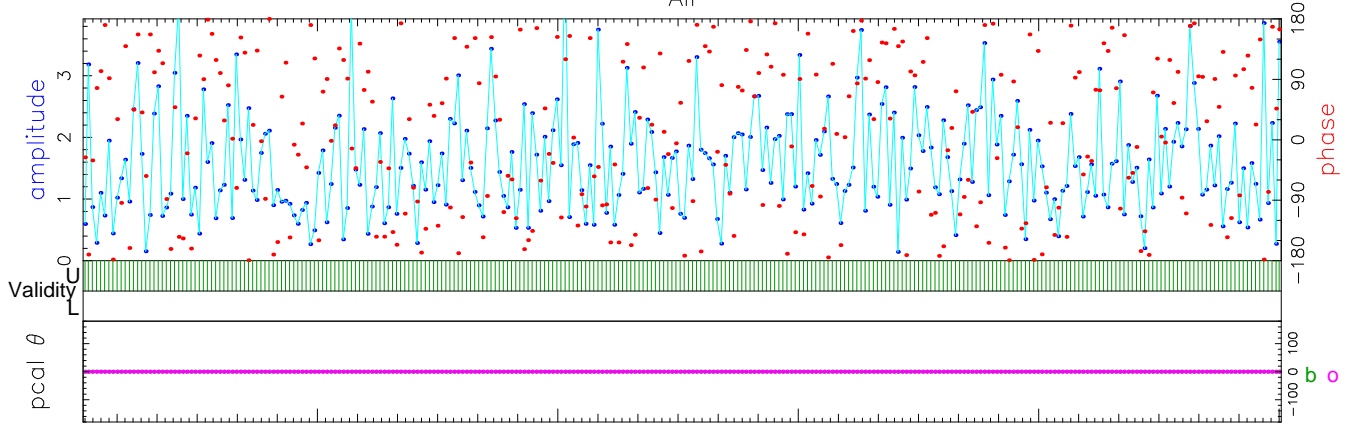
ph/seg (deg)	RMS 92.3	Theor. 122.9	Amplitude Search (2048X8)	1.294 +/- 0.162	1.079	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.7	214.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.558	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.284	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				b: az 103.7 el 59.9 pa -52.0	o: az 85.2 el 61.8 pa -74.4	u,v (fr/asec) 530.309 1600.148	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.6
Int time 297.975
Amp 1.308
Phase -250.4
PFD 1.3e-10
Delays (us)
SBD 0.426635
MBD -0.000004
Fringe rate (Hz)
-0.460890
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051916
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
152.0
0.4
1557.5
U/L 583/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UR

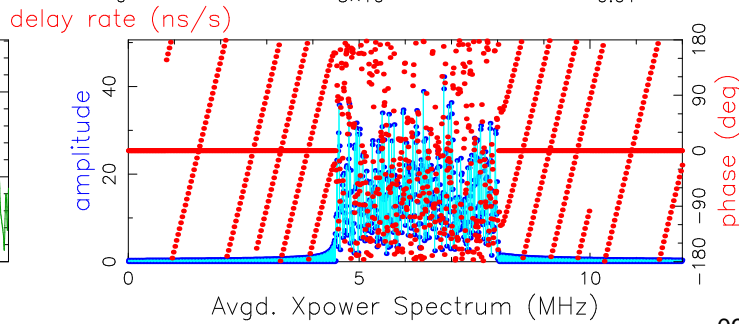
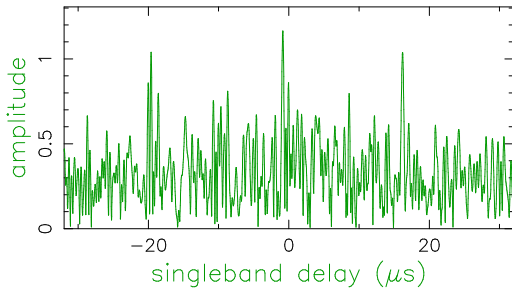
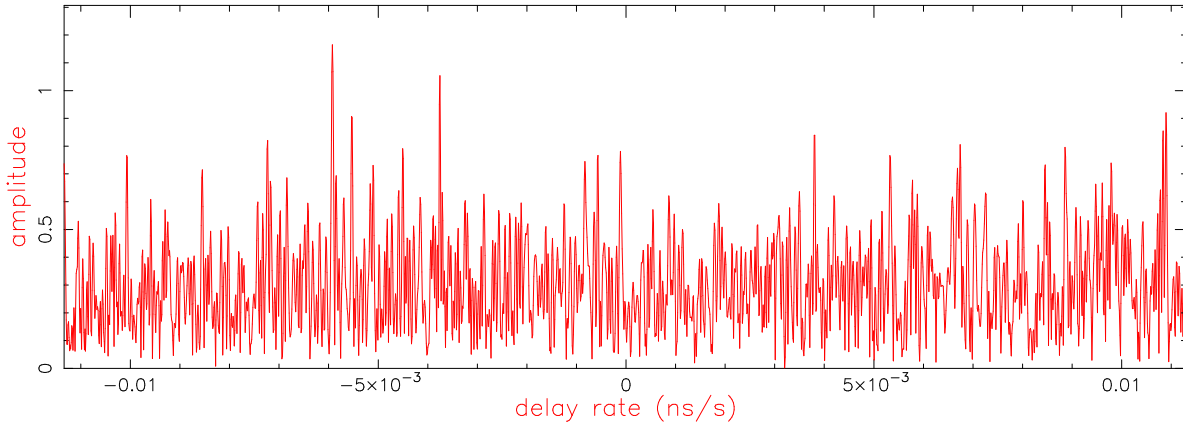
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.65237898922E+02	Apriori delay (usec)	-3.65664535786E+02	Resid mbdelay (usec)	-4.44269E-06	+/-	5.3E-03
Sband delay (usec)	-3.65237901119E+02	Apriori clock (usec)	-6.7456551E+00	Resid sbdelay (usec)	4.26635E-01	+/-	5.3E-03
Phase delay (usec)	-3.65664530883E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.90303E-06	+/-	4.3E-07
Delay rate (us/s)	-7.51010547603E-02	Apriori rate (us/s)	-7.50957042886E-02	Resid rate (us/s)	-5.35047E-06	+/-	2.5E-09
Total phase (deg)	-290.9	Apriori accel (us/s/s)	1.08128014412E-05	Resid phase (deg)	-250.4	+/-	13.3

ph/seg (deg)	RMS 92.8	Theor. 113.7	Amplitude Search (2048X8)	1.308 +/- 0.152	1.176	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	198.5	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.587	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.6	Inc. frq. avg.	1.297	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				b: az 103.7 el 59.9 pa -52.0	o: az 85.2 el 61.8 pa -74.4	u,v (fr/asec) 530.309 1600.148	ion window (TEC) 0.00 0.00

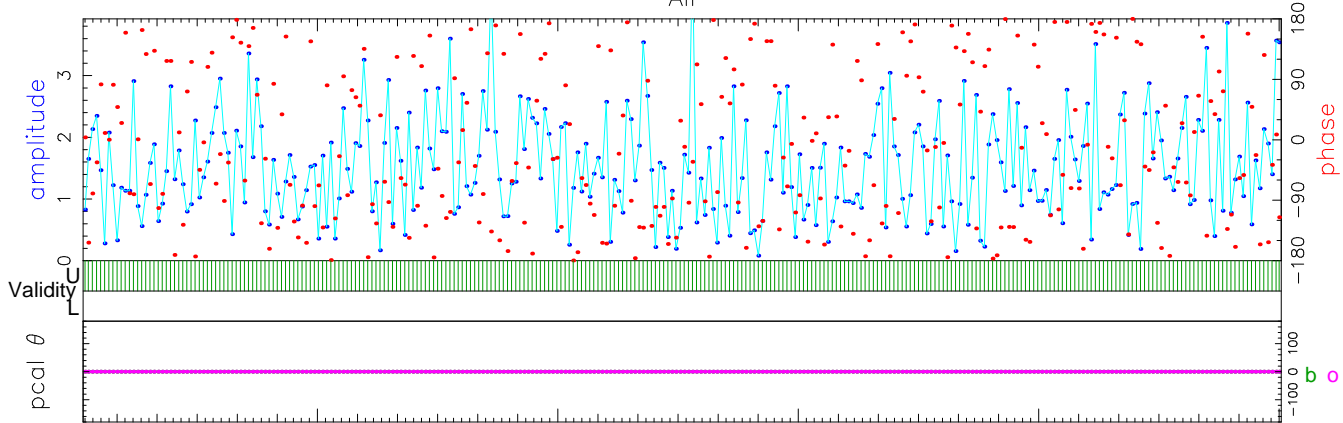
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bo.W.38.1T5GR2 simultaneous interpolator

Fringe quality 8



SNR 8.4
Int time 297.975
Amp 1.307
Phase 242.1
PFD 6.3e-10
Delays (us)
SBD -0.851355
MBD -0.000005
Fringe rate (Hz)
-0.509369
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-142.1
0.4
1496.1
U/L 583/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o 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)	-3.66515887111E+02	Apriori delay (usec)	-3.65664535786E+02	Resid mbdelay (usec)	-5.45880E-06	+/-	5.5E-03
Sband delay (usec)	-3.66515890453E+02	Apriori clock (usec)	-6.7456551E+00	Resid sbdelay (usec)	-8.51355E-01	+/-	5.5E-03
Phase delay (usec)	-3.65664540368E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.58221E-06	+/-	4.4E-07
Delay rate (us/s)	-7.51016175591E-02	Apriori rate (us/s)	-7.50957042886E-02	Resid rate (us/s)	-5.91327E-06	+/-	2.5E-09
Total phase (deg)	201.5	Apriori accel (us/s/s)	1.08128014412E-05	Resid phase (deg)	242.1	+/-	13.6

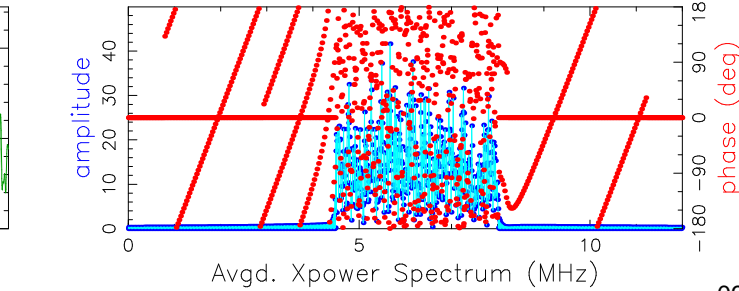
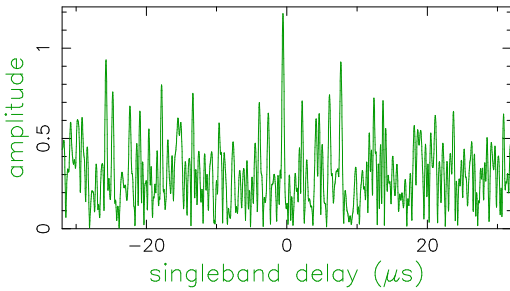
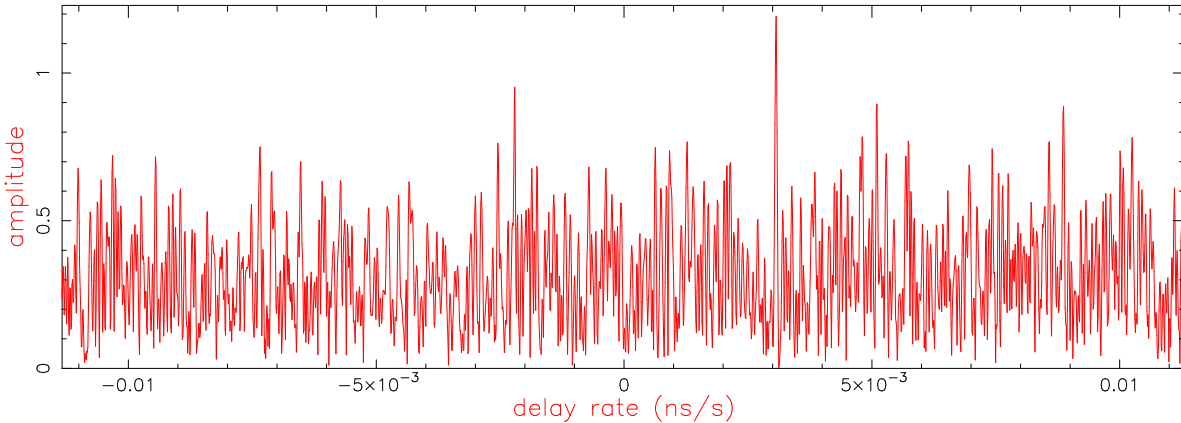
ph/seg (deg)	RMS 93.1	Theor. 116.2	Amplitude Search (2048X8)	1.307 +/- 0.155	1.159	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.0	202.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.566	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.298	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 103.7 el 59.9 pa -52.0	o: az 85.2 el 61.8 pa -74.4		u,v (fr/asec) 530.309 1600.148		ion window (TEC) 0.00 0.00		

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bo.W.53.1T5GR2 simultaneous interpolator

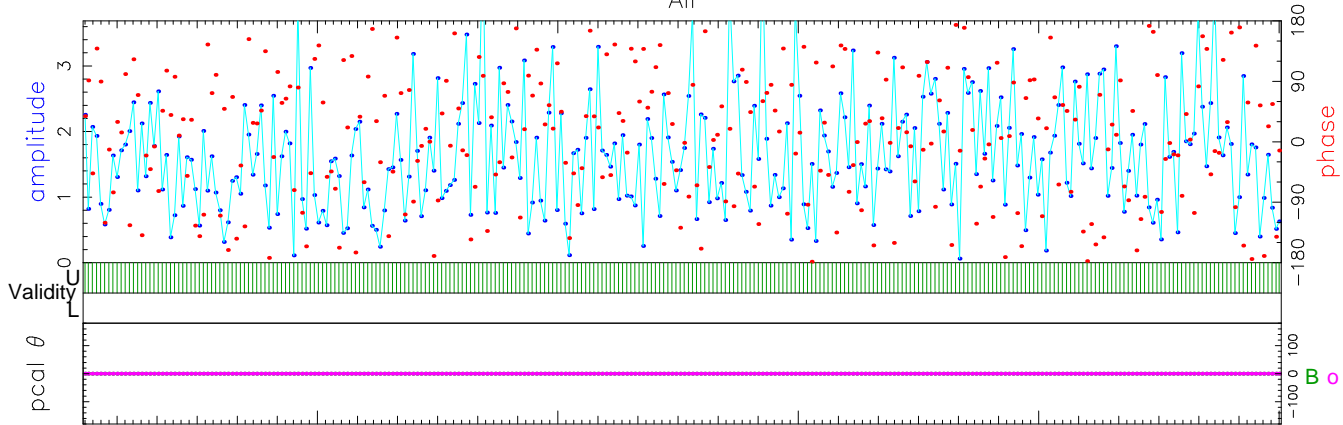
Fringe quality 8

SNR 8.6
Int time 297.975
Amp 1.229
Phase 305.6
PFD 1.2e-10
Delays (us)
SBD -0.549120
MBD 0.000005
Fringe rate (Hz)
0.264322
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
27.2
0.4
1510.6
U/L 583/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UR

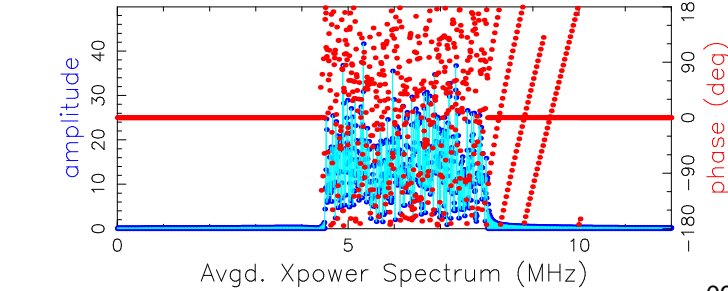
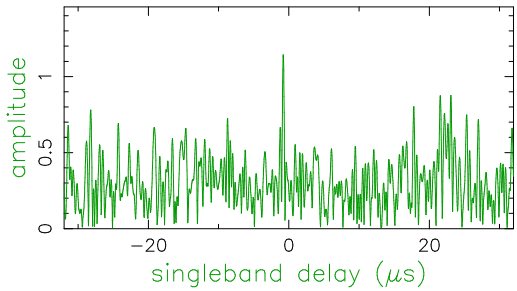
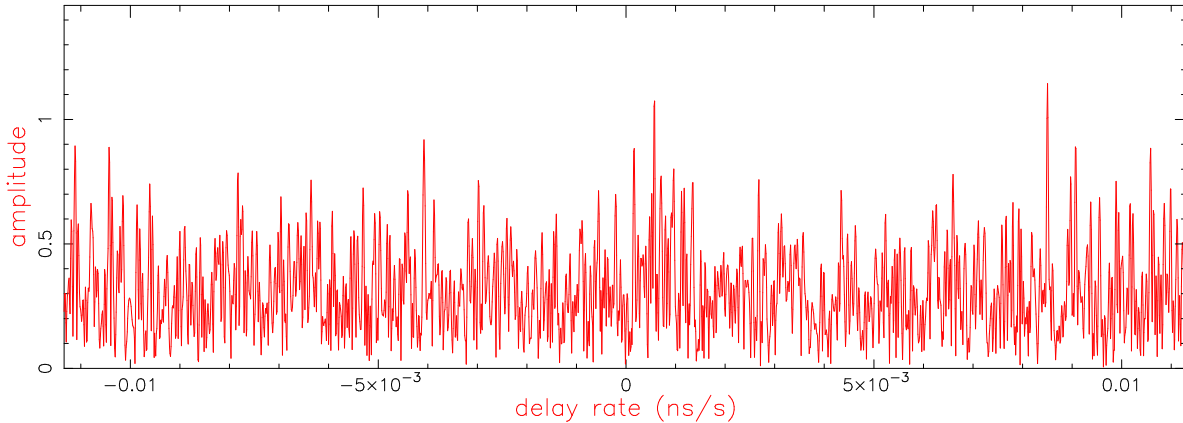
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.81296723369E+03	Apriori delay (usec)	-9.81241811833E+03	Resid mbdelay (usec)	4.98424E-06	+/-	5.3E-03
Sband delay (usec)	-9.81296723833E+03	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-5.49120E-01	+/-	5.3E-03
Phase delay (usec)	-9.81241811745E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.76713E-07	+/-	4.3E-07
Delay rate (us/s)	-1.38757576606E+00	Apriori rate (us/s)	-1.38757883458E+00	Resid rate (us/s)	3.06852E-06	+/-	2.5E-09
Total phase (deg)	49.1	Apriori accel (us/s/s)	6.26845565612E-05	Resid phase (deg)	305.6	+/-	13.3

ph/seg (deg)	RMS 93.4	Theor. 113.6	Amplitude Search (2048X8)	1.229 +/- 0.143	1.185	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.6	198.3	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	6.6	Inc. seg. avg.	0.573	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.220	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	

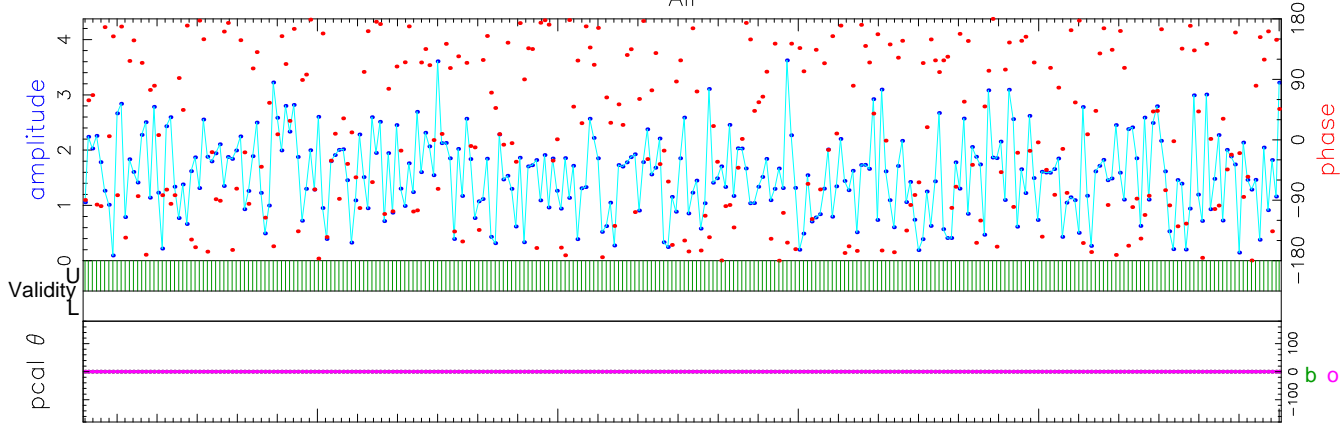
B: az 293.8 el 25.6 pa 44.9 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 9691.722 4547.565 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bo.W.54.1T5GR2

Fringe quality 8



SNR 8.3
Int time 297.975
Amp 1.458
Phase 170.2
PFD 2.3e-09
Delays (us)
SBD -0.793163
MBD 0.000007
Fringe rate (Hz)
0.732108
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
168.0
0.4
1498.9
U/L 583/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UL

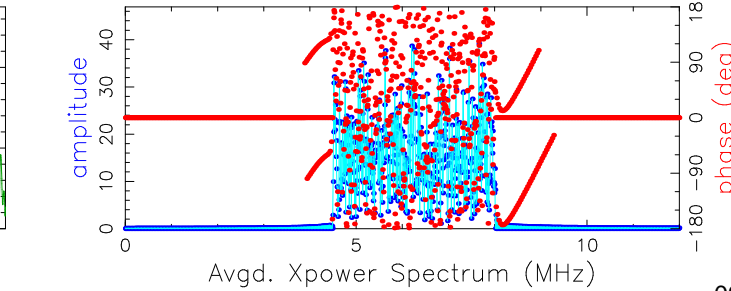
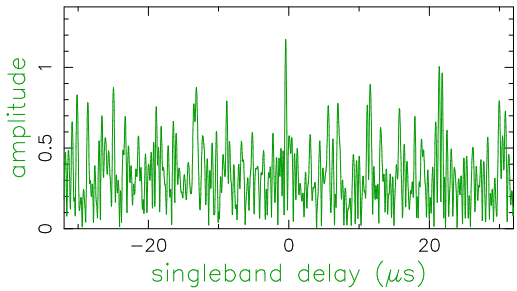
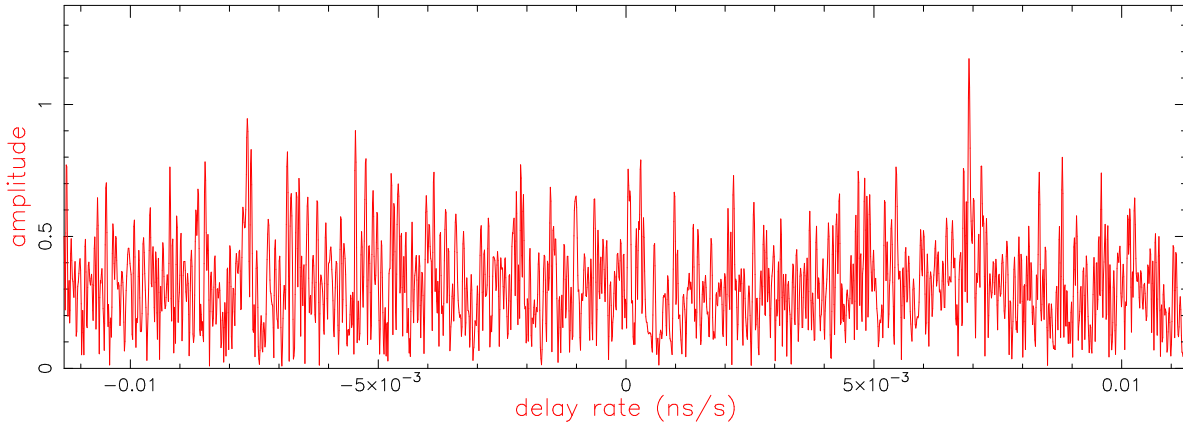
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.66457703061E+02	Apriori delay (usec)	-3.65664535786E+02	Resid mbdelay (usec)	6.55693E-06	+/-	5.6E-03
Sband delay (usec)	-3.66457698453E+02	Apriori clock (usec)	-6.7456551E+00	Resid sbdelay (usec)	-7.93163E-01	+/-	5.6E-03
Phase delay (usec)	-3.65664530367E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.41896E-06	+/-	4.5E-07
Delay rate (us/s)	-7.50872052449E-02	Apriori rate (us/s)	-7.50957042886E-02	Resid rate (us/s)	8.49904E-06	+/-	2.6E-09
Total phase (deg)	129.7	Apriori accel (us/s/s)	1.08128014412E-05	Resid phase (deg)	170.2	+/-	13.9

ph/seg (deg)	RMS 92.3	Theor. 118.4	Amplitude Search (2048X8)	1.458 +/- 0.176	1.125	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.6	206.7	Interp.	0.000	1.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.630	1.125	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.448	1.125	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

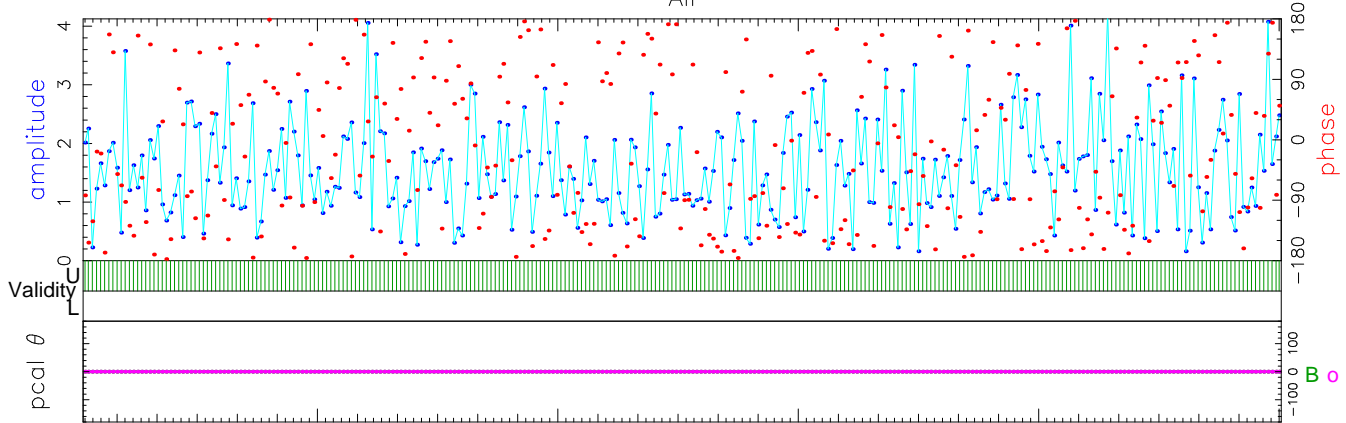
b: az 103.7 el 59.9 pa -52.0 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 530.309 1600.148 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bo.W.64.1T5GR2

Fringe quality 8



SNR 8.5
Int time 297.975
Amp 1.375
Phase 74.5
PFD 3.7e-10
Delays (us)
SBD -0.444400
MBD 0.000006
Fringe rate (Hz)
0.595658
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-164.4
0.4
1515.7
U/L 583/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UL
o W03UR

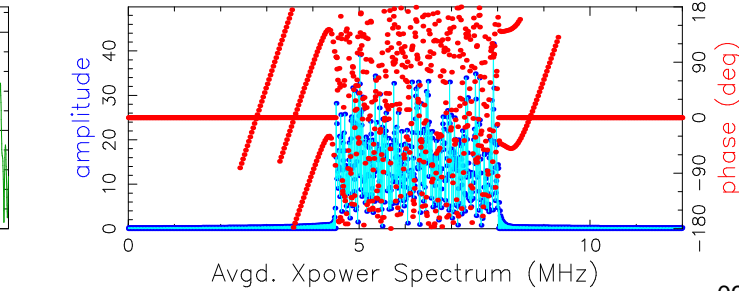
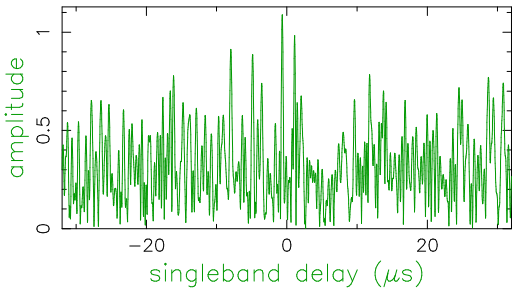
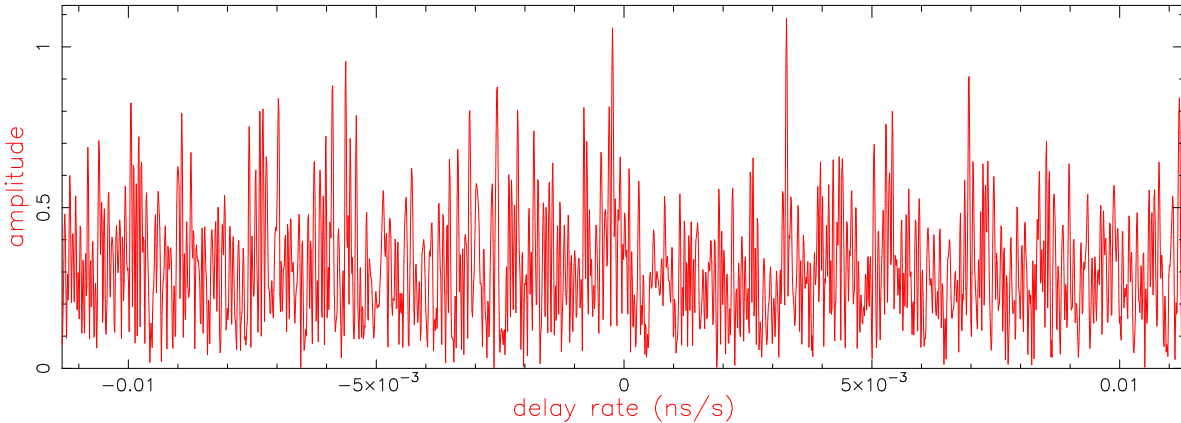
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.81286252068E+03	Apriori delay (usec)	-9.81241811833E+03	Resid mbdelay (usec)	6.00833E-06	+/-	5.4E-03
Sband delay (usec)	-9.81286251833E+03	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-4.44400E-01	+/-	5.4E-03
Phase delay (usec)	-9.81241812363E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.30122E-06	+/-	4.4E-07
Delay rate (us/s)	-1.38757191958E+00	Apriori rate (us/s)	-1.38757883458E+00	Resid rate (us/s)	6.91500E-06	+/-	2.5E-09
Total phase (deg)	177.9	Apriori accel (us/s/s)	6.26845565612E-05	Resid phase (deg)	74.5	+/-	13.5

ph/seg (deg)	RMS 92.3	Theor. 115.4	Amplitude Search (2048X8)	1.375 +/- 0.162	1.144	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.8	201.4	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	6.8	Inc. seg. avg.	0.607	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.364	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

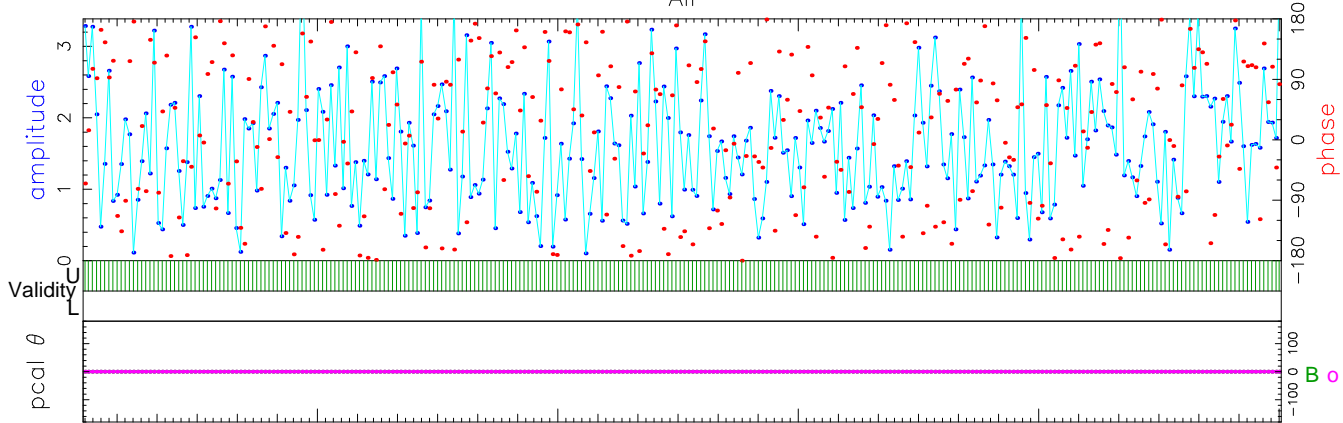
B: az 293.8 el 25.6 pa 44.9 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 9691.722 4547.565 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bo.W.73.1T5GR2

Fringe quality 8



SNR 7.9
Int time 297.975
Amp 1.129
Phase 87.0
PFD 5.2e-08
Delays (us)
SBD -0.653701
MBD 0.000004
Fringe rate (Hz)
0.282304
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
132.9
0.3
1505.6
U/L 583/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UL

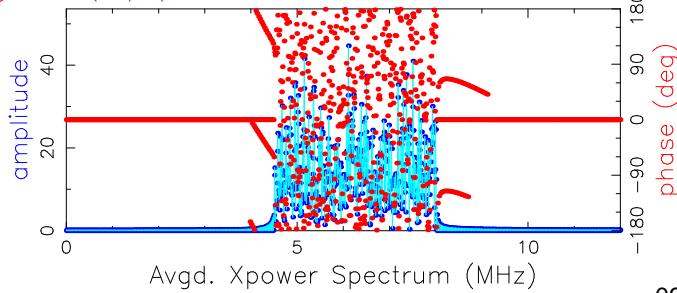
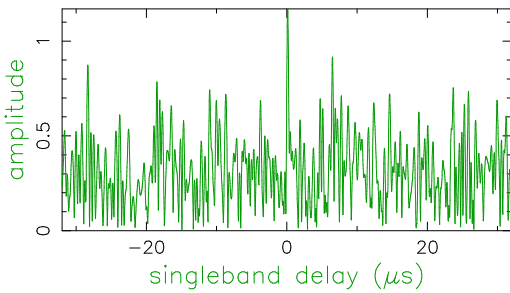
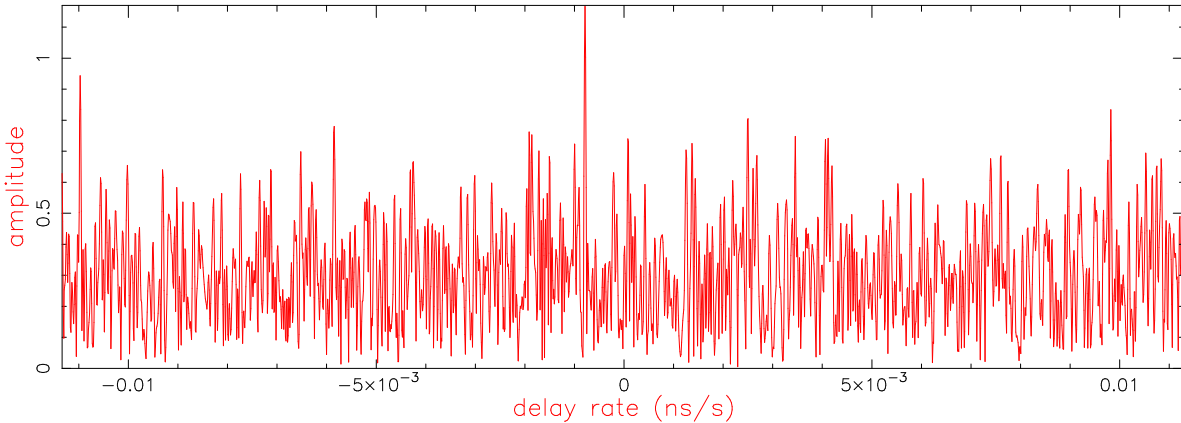
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.81307181862E+03	Apriori delay (usec)	-9.81241811833E+03	Resid mbdelay (usec)	4.46218E-06	+/-	5.8E-03
Sband delay (usec)	-9.81307181966E+03	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-6.53701E-01	+/-	5.8E-03
Phase delay (usec)	-9.81241811404E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.28705E-06	+/-	4.7E-07
Delay rate (us/s)	-1.38757555731E+00	Apriori rate (us/s)	-1.38757883458E+00	Resid rate (us/s)	3.27727E-06	+/-	2.7E-09
Total phase (deg)	190.4	Apriori accel (us/s/s)	6.26845565612E-05	Resid phase (deg)	87.0	+/-	14.5

ph/seg (deg)	RMS 94.2	Theor. 124.2	Amplitude Search (2048X8)	1.129 +/- 0.143	1.083	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.5	216.8	Interp.	0.000	1.083	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.497	1.083	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.118	1.083	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

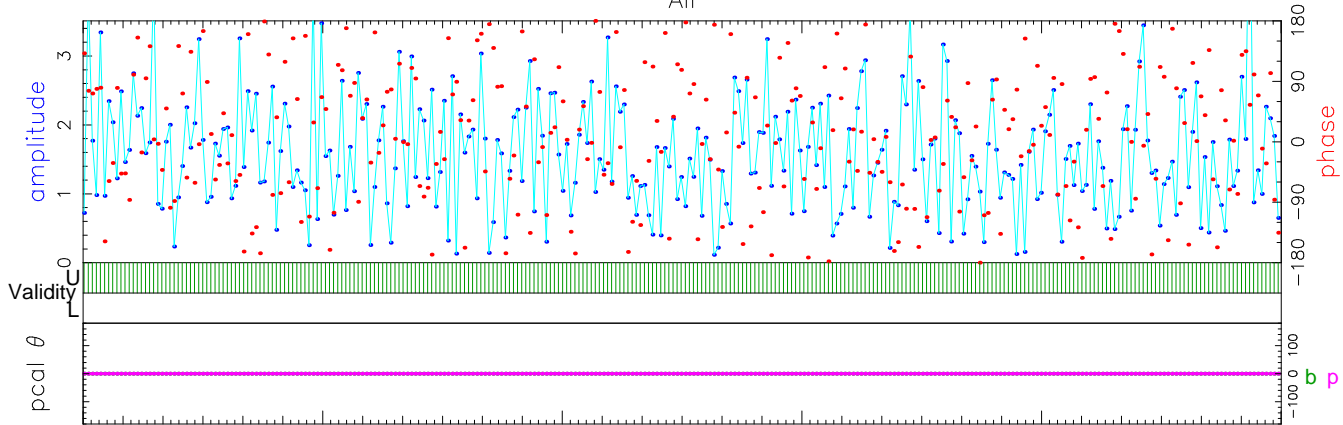
B: az 293.8 el 25.6 pa 44.9 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 9691.722 4547.565 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bo.W.80.1T5GR2

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.170
Phase -142.1
PFD 4.3e-10
Delays (us)
SBD 0.120293
MBD -0.000007
Fringe rate (Hz)
-0.068094
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
25.7
0.3
1542.8
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UL

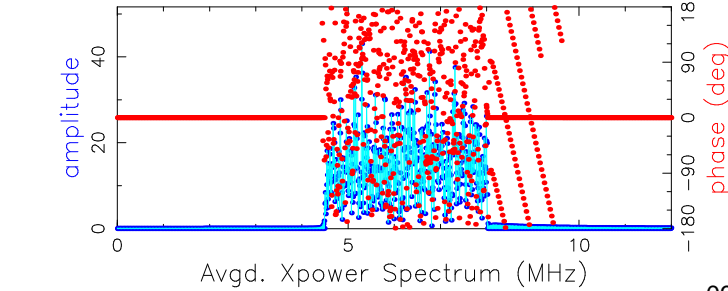
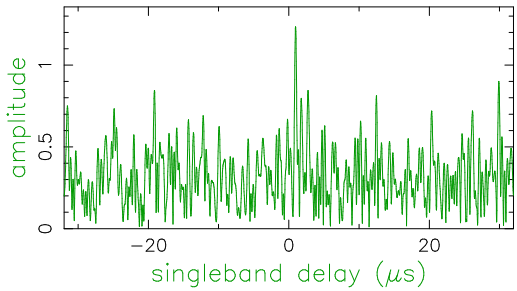
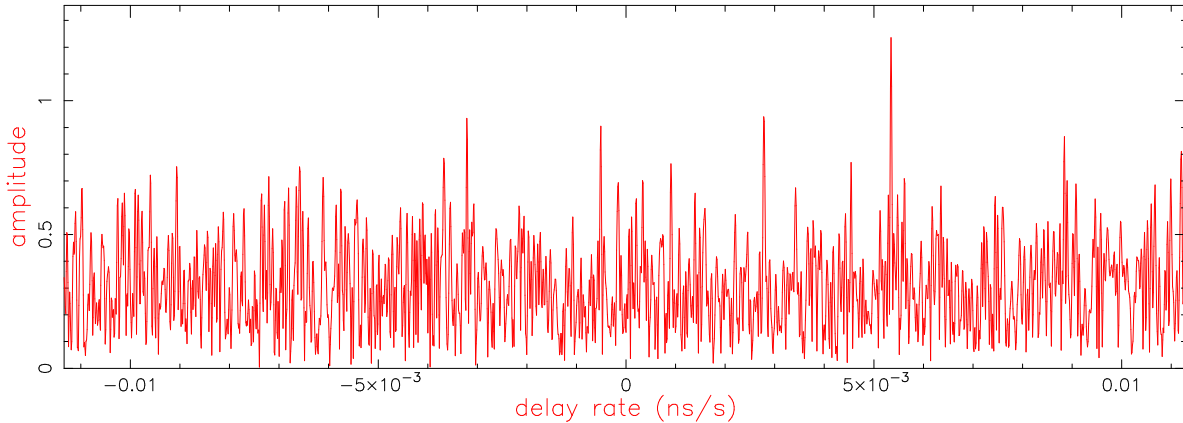
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.55419940713E+03	Apriori delay (usec)	-1.55431969880E+03	Resid mbdelay (usec)	-7.07853E-06	+/- 5.4E-03
Sband delay (usec)	-1.55419940547E+03	Apriori clock (usec)	-8.5216560E+00	Resid sbdelay (usec)	1.20293E-01	+/- 5.4E-03
Phase delay (usec)	-1.55431969797E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	8.28505E-07	+/- 4.4E-07
Delay rate (us/s)	6.72973490826E-02	Apriori rate (us/s)	6.72981395842E-02	Resid rate (us/s)	-7.90502E-07	+/- 2.5E-09
Total phase (deg)	-89.7	Apriori accel (us/s/s)	1.97626787862E-05	Resid phase (deg)	-142.1	+/- 13.5

ph/seg (deg)	RMS 94.7	Theor. 115.8	Amplitude Search (2048X8)	1.170 +/- 0.138	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.1	202.1	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	6.8	Inc. seg. avg.	0.522	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.161	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

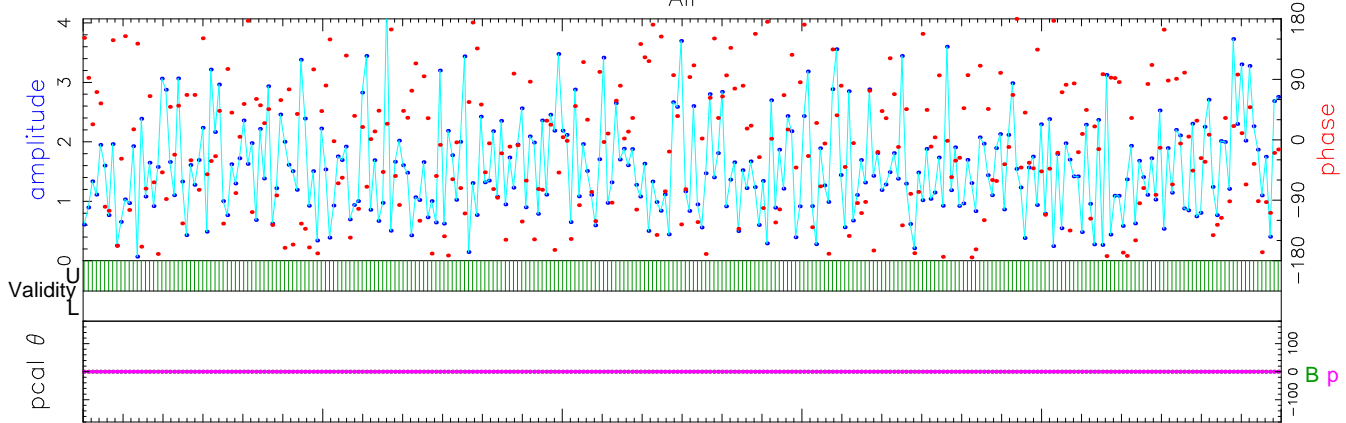
b: az 103.7 el 59.9 pa -52.0 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -450.083 2389.003 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bp.W.113.1T5GR2

Fringe quality 8



SNR 9.0
Int time 299.974
Amp 1.356
Phase -278.1
PFD 5.7e-12
Delays (us)
SBD 0.962964
MBD 0.000007
Fringe rate (Hz)
0.459714
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051918
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
1.7
0.4
1583.2
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UL

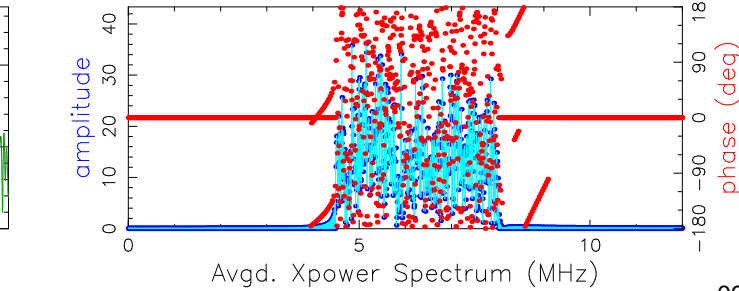
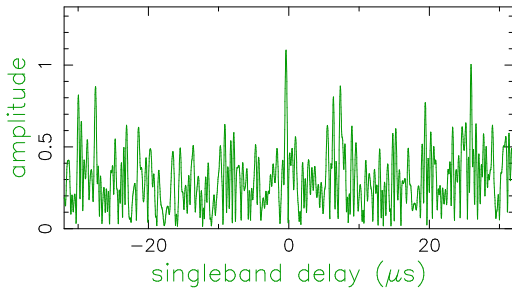
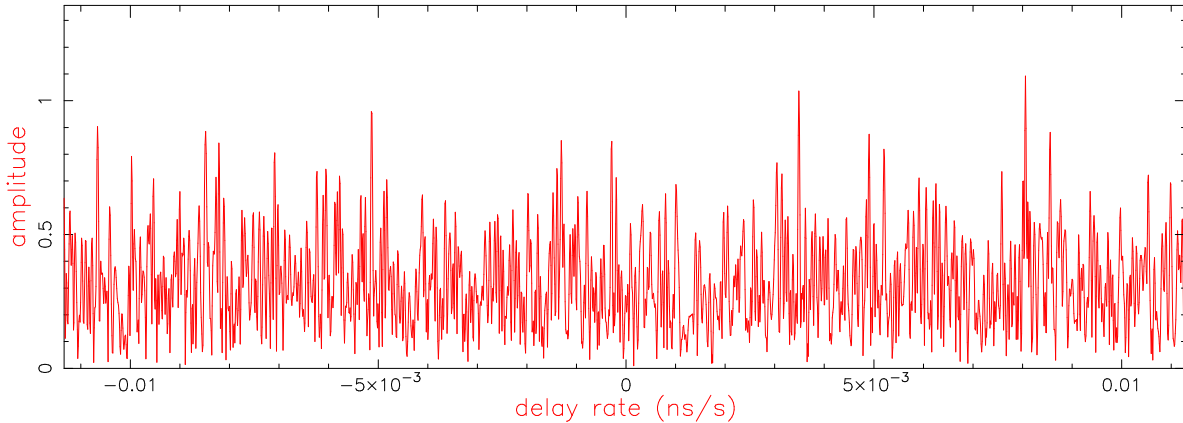
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.10001103159E+04	Apriori delay (usec)	-1.10010732813E+04	Resid mbdelay (usec)	7.24717E-06	+/-	5.1E-03
Sband delay (usec)	-1.10001103173E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	9.62964E-01	+/-	5.1E-03
Phase delay (usec)	-1.10010732813E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.49534E-08	+/-	4.1E-07
Delay rate (us/s)	-1.24517965388E+00	Apriori rate (us/s)	-1.24518499071E+00	Resid rate (us/s)	5.33683E-06	+/-	2.4E-09
Total phase (deg)	-81.8	Apriori accel (us/s/s)	7.16344339062E-05	Resid phase (deg)	-278.1	+/-	12.8

ph/seg (deg)	RMS 94.4	Theor. 109.4	Amplitude Search (2048X8)	1.356 +/- 0.151	1.233	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.9	191.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.612	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.347	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

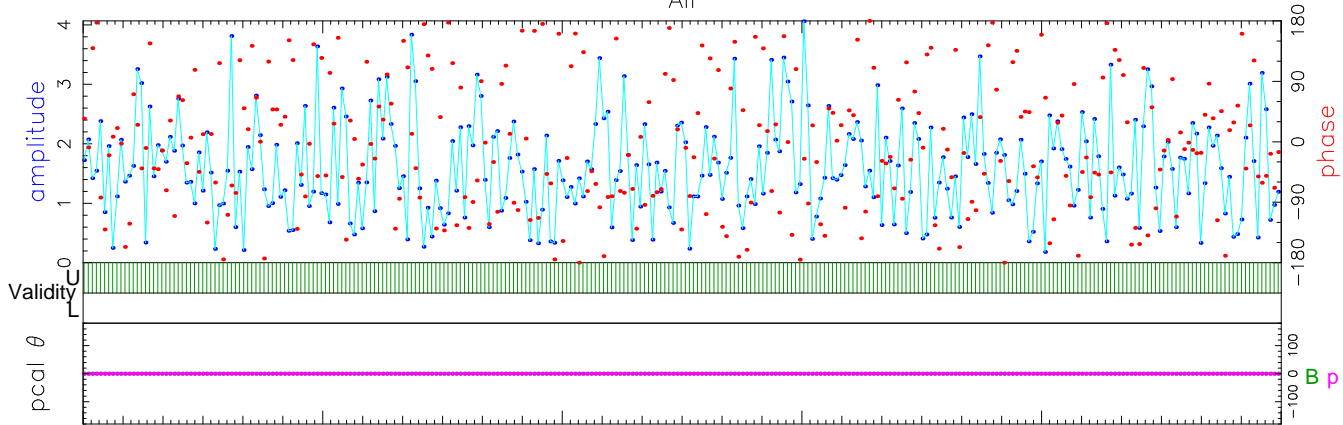
B: az 293.8 el 25.6 pa 44.9 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 8711.330 5336.420 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bp.W.59.1T5GR2

Fringe quality 8



SNR 7.9
Int time 299.974
Amp 1.356
Phase 255.0
PFD 3.8e-08
Delays (us)
SBD -0.399871
MBD 0.000005
Fringe rate (Hz)
0.693167
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-29.0
0.4
1517.8
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UR

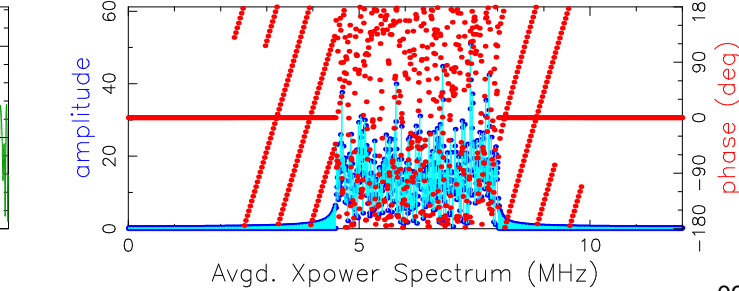
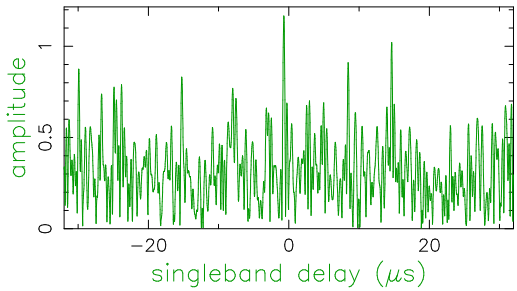
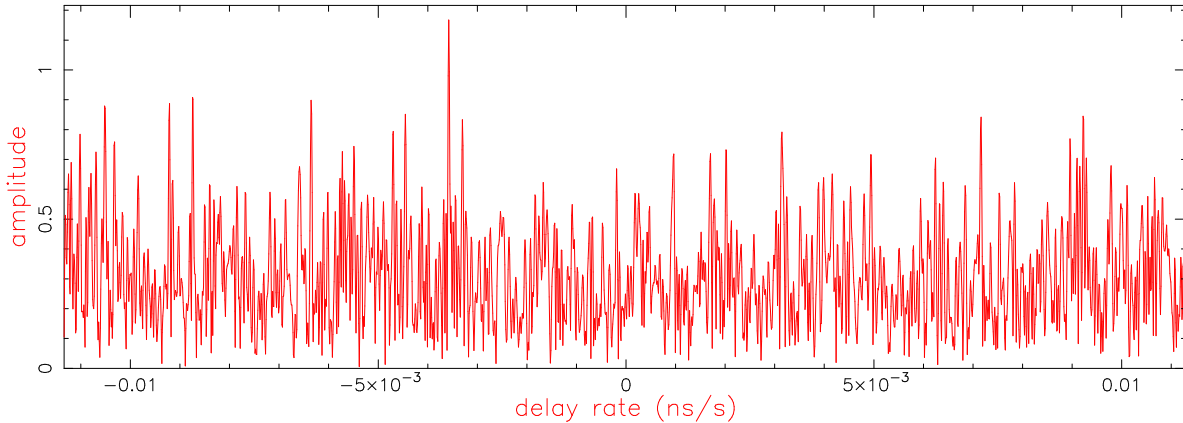
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.10014731514E+04	Apriori delay (usec)	-1.10010732813E+04	Resid mbdelay (usec)	4.70340E-06	+/-	5.8E-03
Sband delay (usec)	-1.10014731520E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	-3.99871E-01	+/-	5.8E-03
Phase delay (usec)	-1.10010732823E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.36334E-07	+/-	4.7E-07
Delay rate (us/s)	-1.24517694373E+00	Apriori rate (us/s)	-1.24518499071E+00	Resid rate (us/s)	8.04698E-06	+/-	2.7E-09
Total phase (deg)	91.4	Apriori accel (us/s/s)	7.16344339062E-05	Resid phase (deg)	255.0	+/-	14.5

ph/seg (deg)	RMS 96.2	Theor. 123.8	Amplitude Search (2048X8)	1.356 +/- 0.171	1.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.7	216.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.596	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.345	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

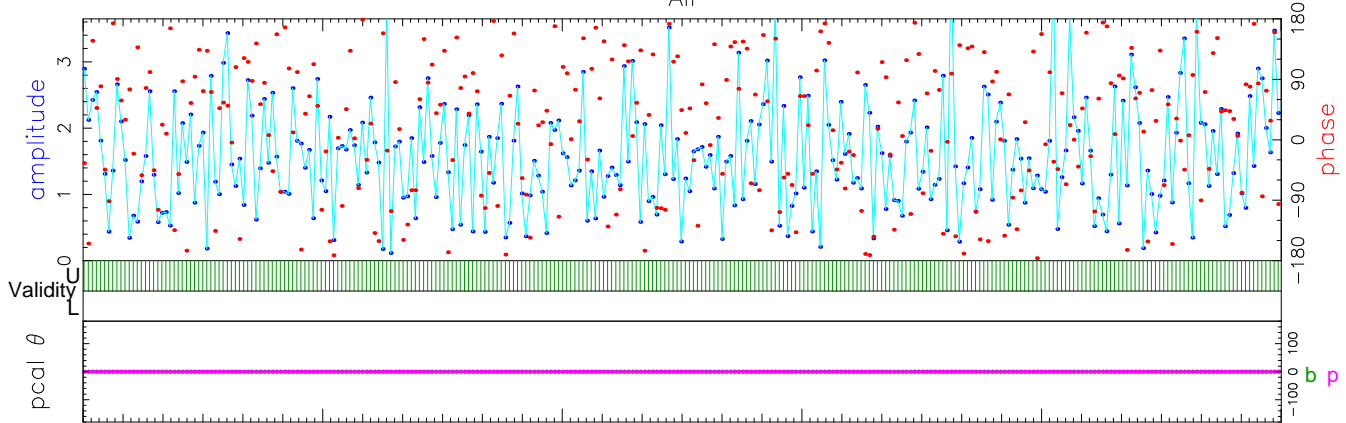
B: az 293.8 el 25.6 pa 44.9 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 8711.330 5336.420 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bp.W.66.1T5GR2

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.216
Phase 190.1
PFD 4.4e-10
Delays (us)
SBD -0.704673
MBD -0.000006
Fringe rate (Hz)
-0.307257
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
80.1
0.4
1503.2
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UL

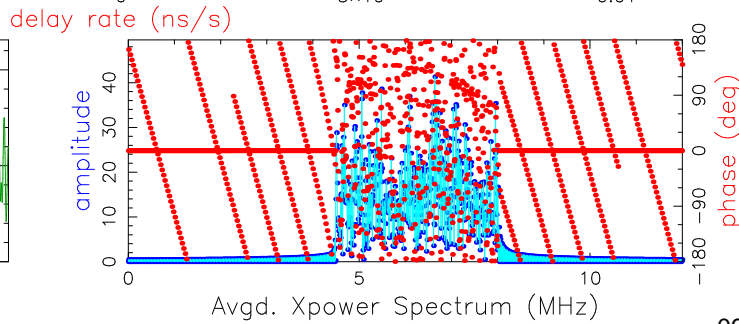
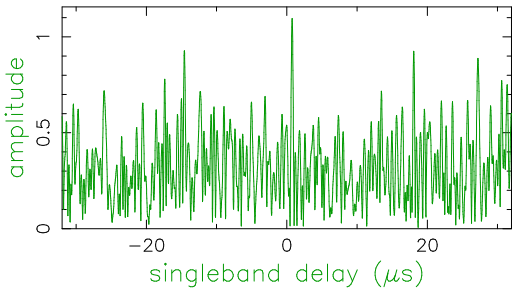
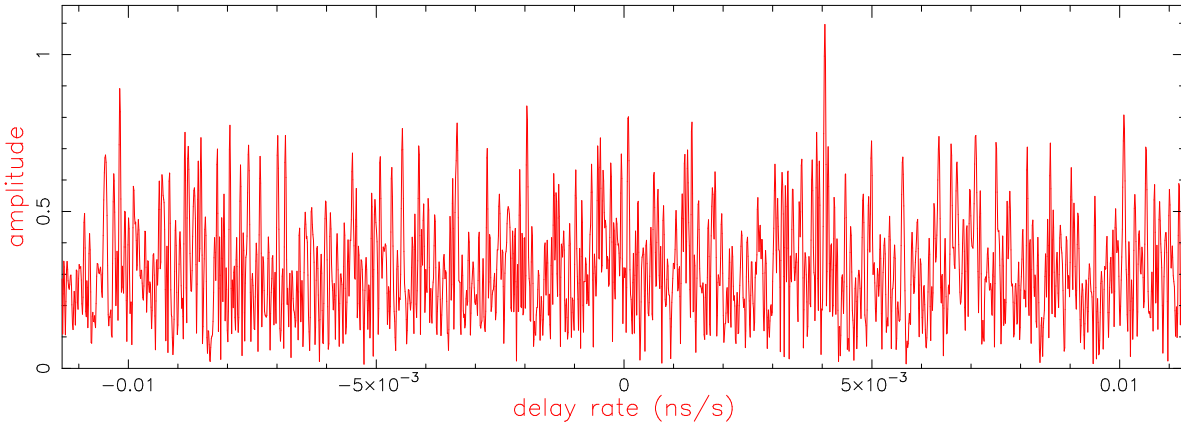
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.55502436802E+03	Apriori delay (usec)	-1.55431969880E+03	Resid mbdelay (usec)	-5.94960E-06	+/- 5.4E-03
Sband delay (usec)	-1.55502437213E+03	Apriori clock (usec)	-8.5216560E+00	Resid sbdelay (usec)	-7.04673E-01	+/- 5.4E-03
Phase delay (usec)	-1.55431969622E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.58155E-06	+/- 4.4E-07
Delay rate (us/s)	6.72945726371E-02	Apriori rate (us/s)	6.72981395842E-02	Resid rate (us/s)	-3.56695E-06	+/- 2.5E-09
Total phase (deg)	242.4	Apriori accel (us/s/s)	1.97626787862E-05	Resid phase (deg)	190.1	+/- 13.5

ph/seg (deg)	RMS 93.6	Theor. 115.9	Amplitude Search (2048X8)	1.216 +/- 0.144	1.154	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.8	202.2	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	6.8	Inc. seg. avg.	0.541	0.541	Bits/sample: 2x2	Sample rate(MSamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.207	1.207	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

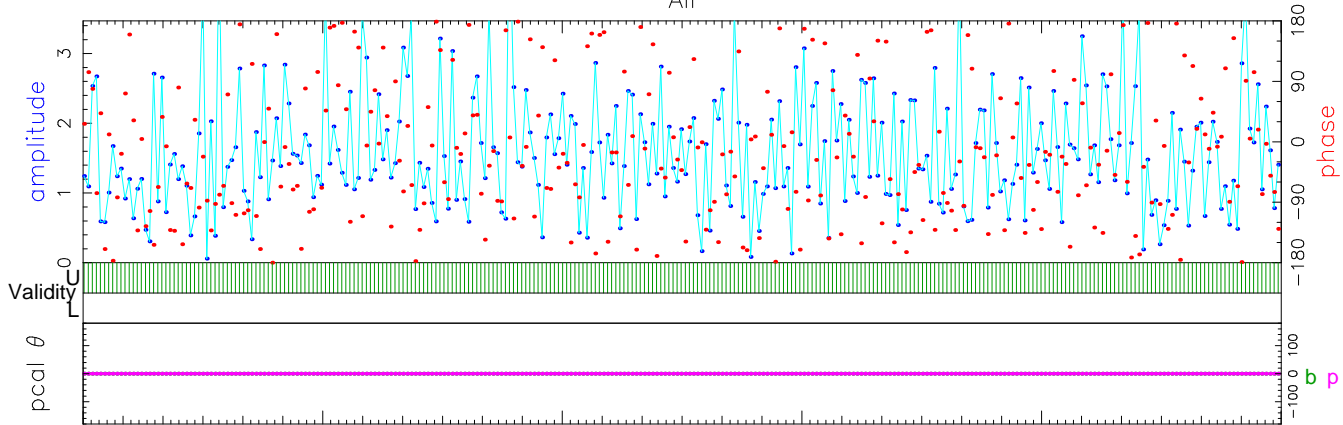
b: az 103.7 el 59.9 pa -52.0 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -450.083 2389.003 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bp.W.67.1T5GR2

Fringe quality 8



SNR 8.0
Int time 299.974
Amp 1.157
Phase -336.2
PFD 2.9e-08
Delays (us)
SBD 0.755765
MBD 0.000005
Fringe rate (Hz)
0.348863
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-65.8
0.3
1573.3
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UR

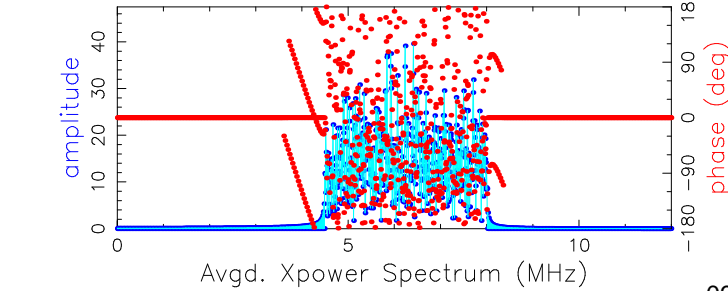
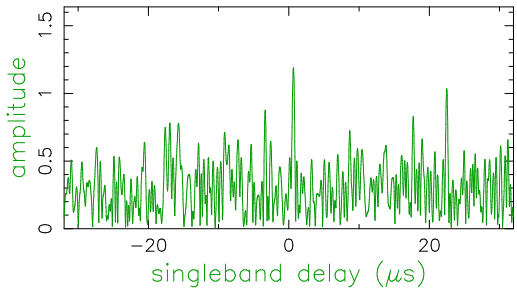
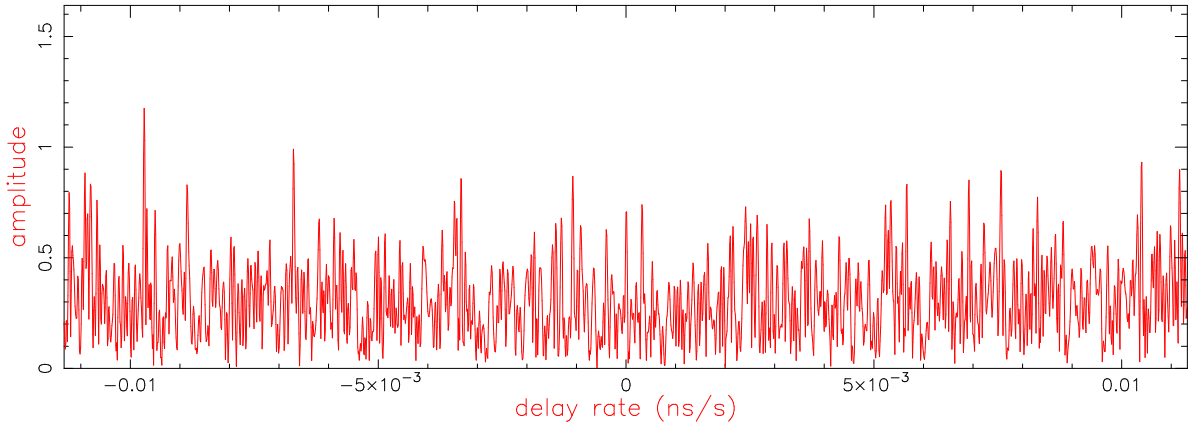
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.55356393313E+03	Apriori delay (usec)	-1.55431969880E+03	Resid mbdelay (usec)	4.71565E-06	+/-	5.8E-03
Sband delay (usec)	-1.55356393347E+03	Apriori clock (usec)	-8.5216560E+00	Resid sbdelay (usec)	7.55765E-01	+/-	5.8E-03
Phase delay (usec)	-1.55431970092E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.12223E-06	+/-	4.6E-07
Delay rate (us/s)	6.73021895422E-02	Apriori rate (us/s)	6.72981395842E-02	Resid rate (us/s)	4.04996E-06	+/-	2.7E-09
Total phase (deg)	-283.9	Apriori accel (us/s/s)	1.97626787862E-05	Resid phase (deg)	-336.2	+/-	14.4

ph/seg (deg)	RMS 90.0	Theor. 123.3	Amplitude Search (2048X8)	1.157 +/- 0.145	1.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.7	215.2	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	7.2	Inc. seg. avg.	0.510	Bits/sample: 2x2	ion window (TEC)	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.147	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	

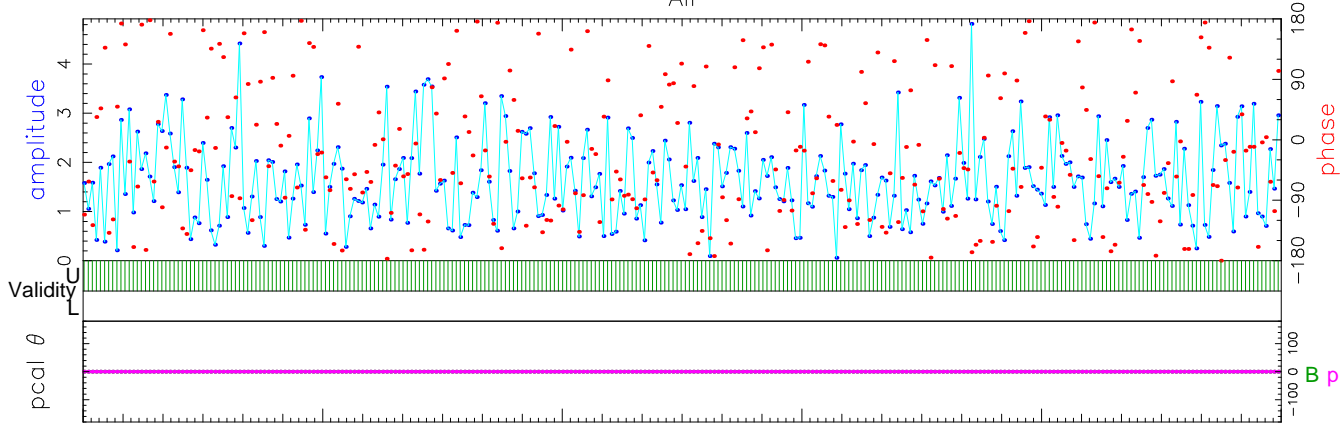
b: az 103.7 el 59.9 pa -52.0 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -450.083 2389.003 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bp.W.76.1T5GR2

Fringe quality 8



SNR 8.6
Int time 299.974
Amp 1.640
Phase -84.4
PFD 1.2e-10
Delays (us)
SBD 0.666667
MBD -0.000005
Fringe rate (Hz)
-0.836721
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-84.2
0.5
1568.4
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UR

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

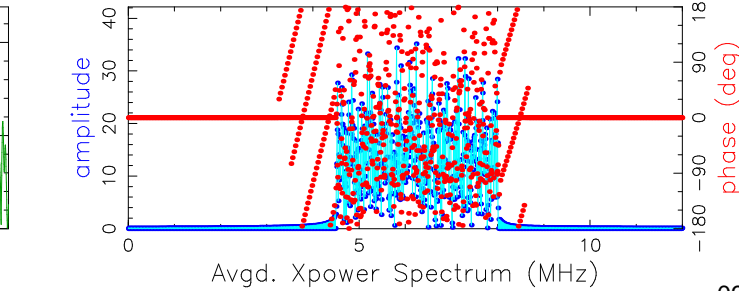
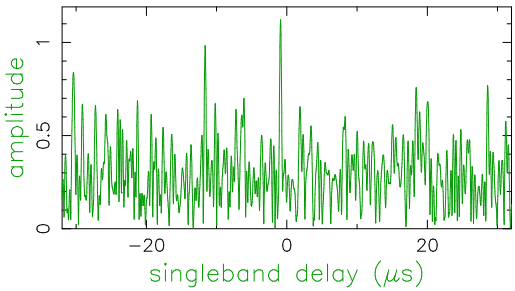
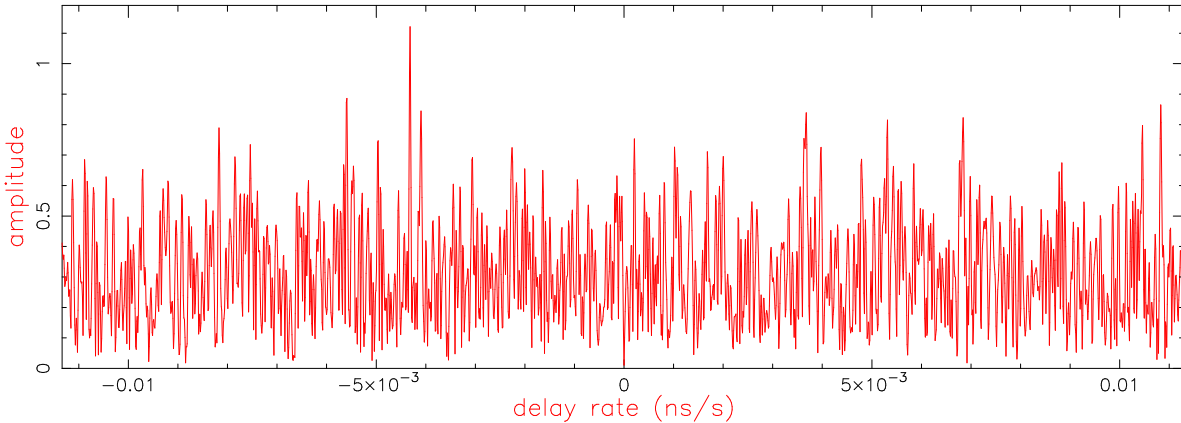
Group delay (usec)(sbd)	-1.10004066156E+04	Apriori delay (usec)	-1.10010732813E+04	Resid mbdelay (usec)	-4.82679E-06	+/-	5.3E-03
Sband delay (usec)	-1.10004066147E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	6.66667E-01	+/-	5.3E-03
Phase delay (usec)	-1.10010732841E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.71677E-06	+/-	4.3E-07
Delay rate (us/s)	-1.24519470421E+00	Apriori rate (us/s)	-1.24518499071E+00	Resid rate (us/s)	-9.71350E-06	+/-	2.5E-09
Total phase (deg)	-248.0	Apriori accel (us/s/s)	7.16344339062E-05	Resid phase (deg)	-84.4	+/-	13.3

ph/seg (deg)	RMS 92.8	Theor. 113.9	Amplitude 1.640 +/- 0.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.4	198.7	Search (2048X8) 1.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	71.0	11.6	Inc. seg. avg. 0.766	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.611	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 293.8 el 25.6 pa 44.9 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 8711.330 5336.420 simultaneous interpolator

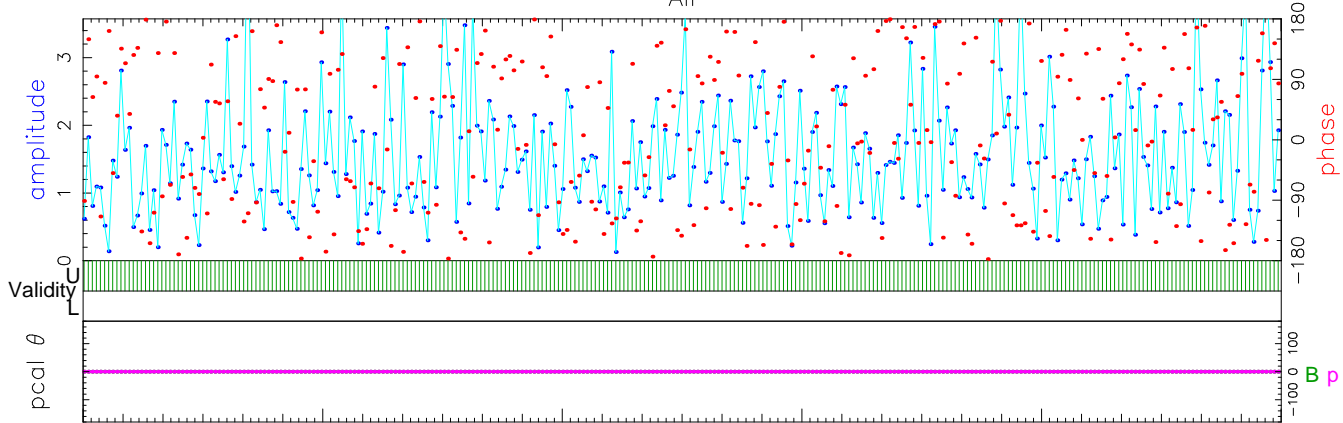
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bp.W.78.1T5GR2

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.191
Phase 86.2
PFD 6.9e-09
Delays (us)
SBD -0.893851
MBD -0.000004
Fringe rate (Hz)
-0.371818
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
170.9
0.3
1494.1
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UL

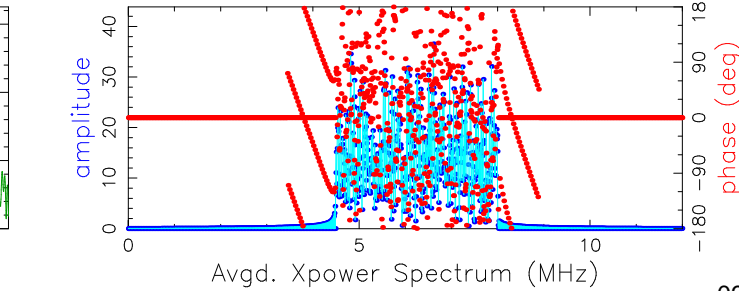
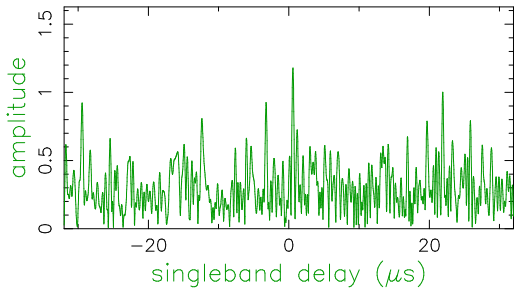
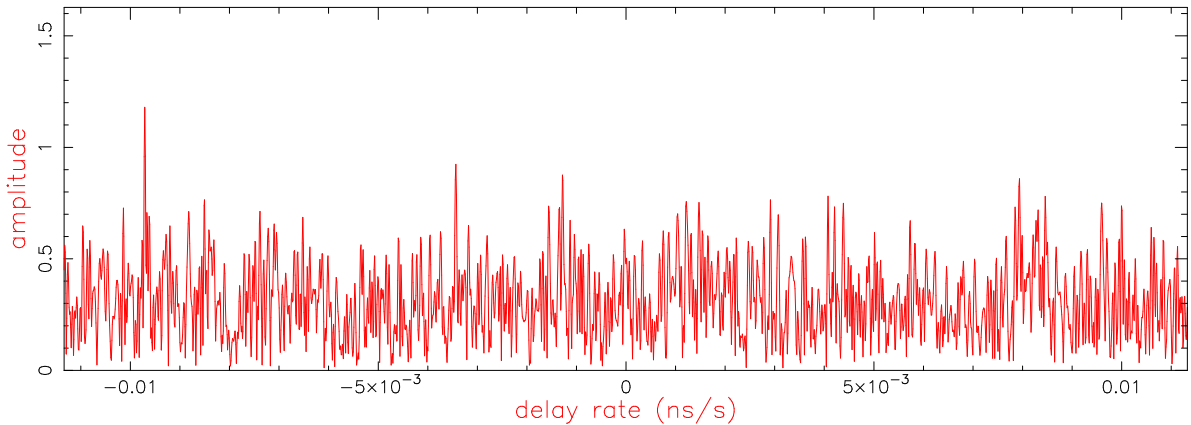
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.10019671357E+04	Apriori delay (usec)	-1.10010732813E+04	Resid mbdelay (usec)	-4.37436E-06	+/- 5.6E-03
Sband delay (usec)	-1.10019671320E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	-8.93851E-01	+/- 5.6E-03
Phase delay (usec)	-1.10010732758E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.50984E-06	+/- 4.5E-07
Delay rate (us/s)	-1.24518930715E+00	Apriori rate (us/s)	-1.24518499071E+00	Resid rate (us/s)	-4.31644E-06	+/- 2.6E-09
Total phase (deg)	282.6	Apriori accel (us/s/s)	7.16344339062E-05	Resid phase (deg)	86.2	+/- 14.1

ph/seg (deg)	RMS 95.2	Theor. 120.6	Amplitude Search (2048X8)	1.191 +/- 0.146	1.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	88.9	210.5	Interp.	0.000	1.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.520	1.107	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.182	1.182	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

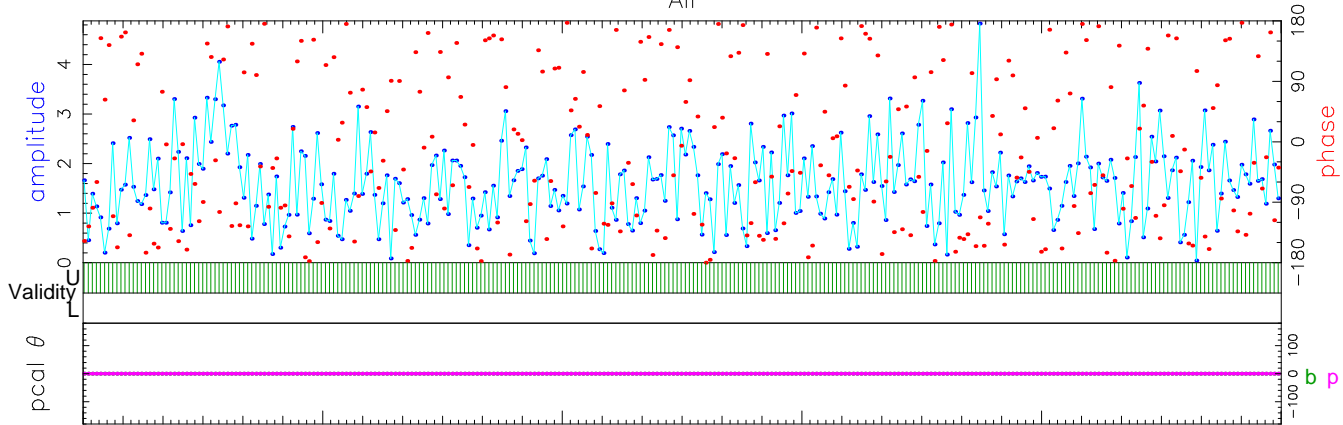
B: az 293.8 el 25.6 pa 44.9 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 8711.330 5336.420 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/Bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/Bp.W.85.1T5GR2

Fringe quality 8



SNR 8.6
Int time 299.974
Amp 1.627
Phase -1.3
PFD 2.1e-10
Delays (us)
SBD 0.581548
MBD -0.000006
Fringe rate (Hz)
-0.835869
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-146.9
0.5
1564.9
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UR

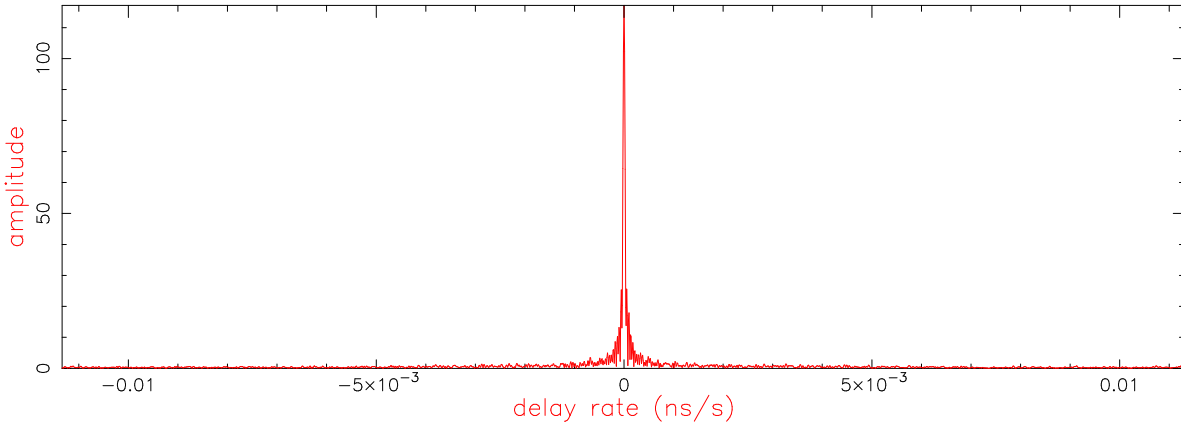
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.55373814687E+03	Apriori delay (usec)	-1.55431969880E+03	Resid mbdelay (usec)	-6.05574E-06	+/-	5.4E-03
Sband delay (usec)	-1.55373815080E+03	Apriori clock (usec)	-8.5216560E+00	Resid sbdelay (usec)	5.81548E-01	+/-	5.4E-03
Phase delay (usec)	-1.55431970354E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.73656E-06	+/-	4.3E-07
Delay rate (us/s)	6.72884359705E-02	Apriori rate (us/s)	6.72981395842E-02	Resid rate (us/s)	-9.70361E-06	+/-	2.5E-09
Total phase (deg)	-308.9	Apriori accel (us/s/s)	1.97626787862E-05	Resid phase (deg)	-1.3	+/-	13.4

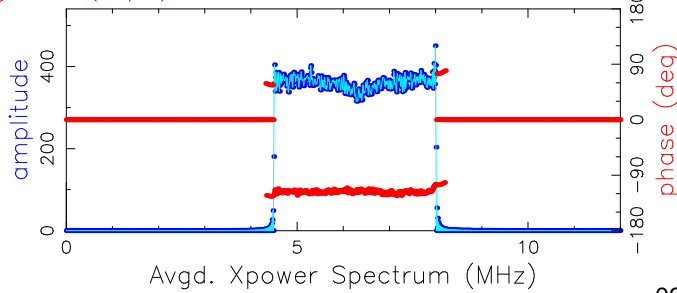
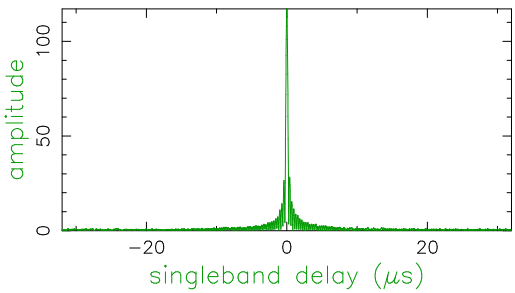
ph/seg (deg)	RMS 92.3	Theor. 114.7	Amplitude Search (2048X8)	1.627 +/- 0.190	1.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.7	200.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.736	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.616	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 103.7 el 59.9 pa -52.0 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -450.083 2389.003 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/bp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/bp.W.89.1T5GR2

Fringe quality 5

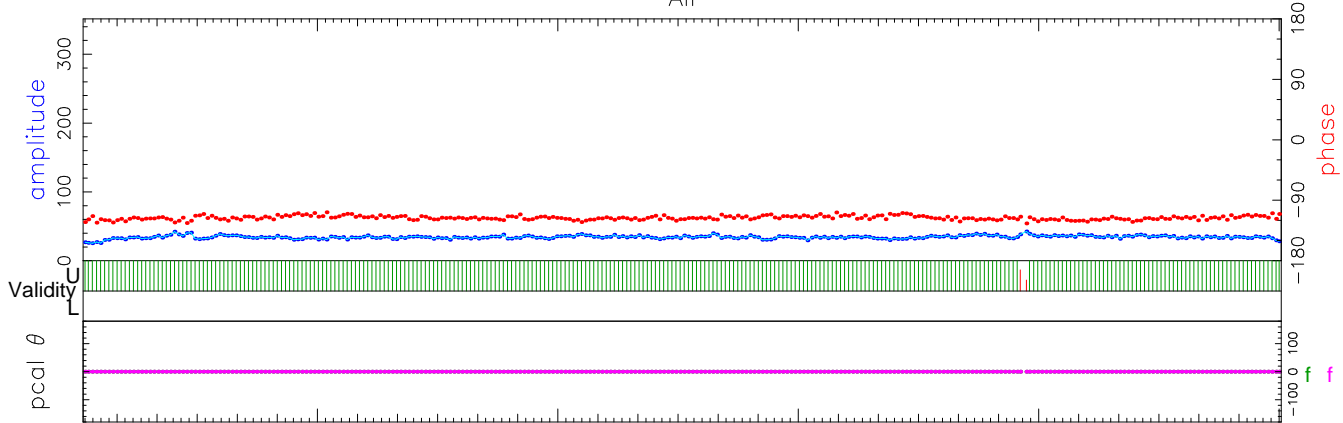


SNR 844.3
Int time 296.266
Amp 117.166
Phase -126.3
PFD 0.0e+00
Delays (us)
SBD 0.000319
MBD -0.000007
Fringe rate (Hz)
-0.000006
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



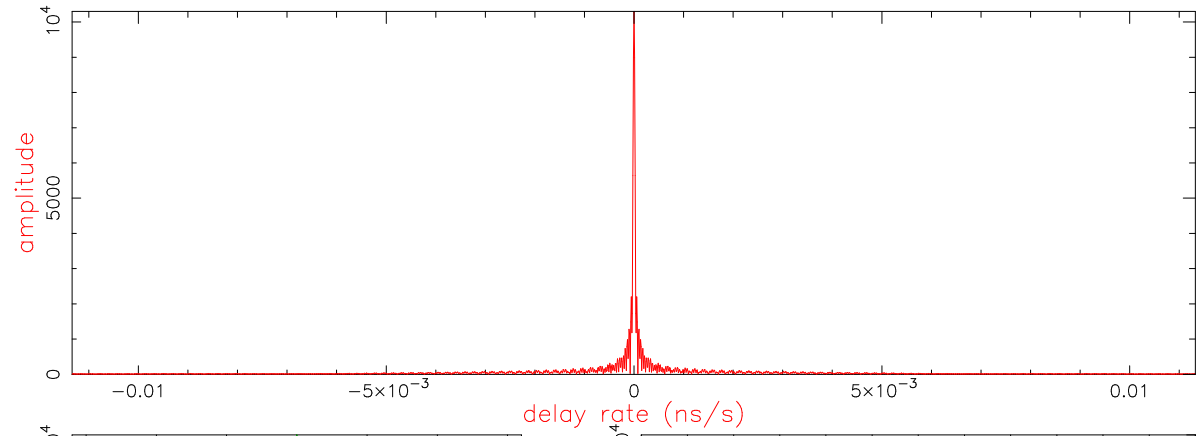
86227.00
-116.1
34.3
1537.0
U/L 581/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UL

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

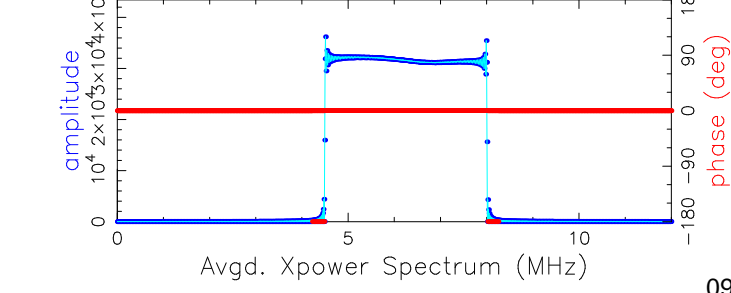
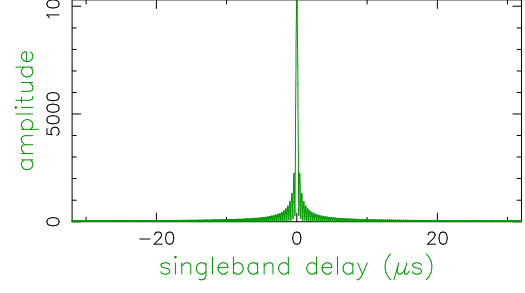
Group delay (usec)(sbd)	3.17900796734E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.82348E-06	+/-	5.4E-05
Sband delay (usec)	3.18666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.18667E-04	+/-	5.4E-05
Phase delay (usec)	-3.74528904977E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.74529E-06	+/-	4.4E-09
Delay rate (us/s)	-6.66044162409E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-6.66044E-11	+/-	2.5E-11
Total phase (deg)	-126.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-126.3	+/-	0.1

ph/seg (deg)	3.0	RMS	117.165	117.166 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	Theor.	117.165	117.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Search (2048X8)	0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. seg. avg.	34.365	34.365	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
		Inc. frq. avg.	117.165	117.165	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

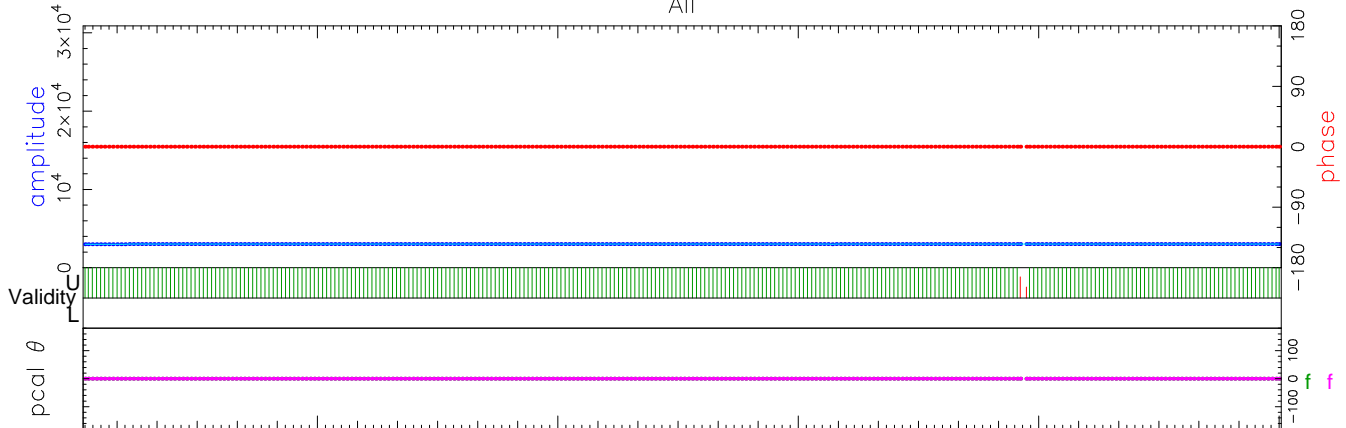
f: az 72.2 el 72.4 pa -96.7 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/ff..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/ff.W.101.1T5GR2



Fringe quality 5
SNR 74227.6
Int time 296.266
Amp 10300.816
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 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051919
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



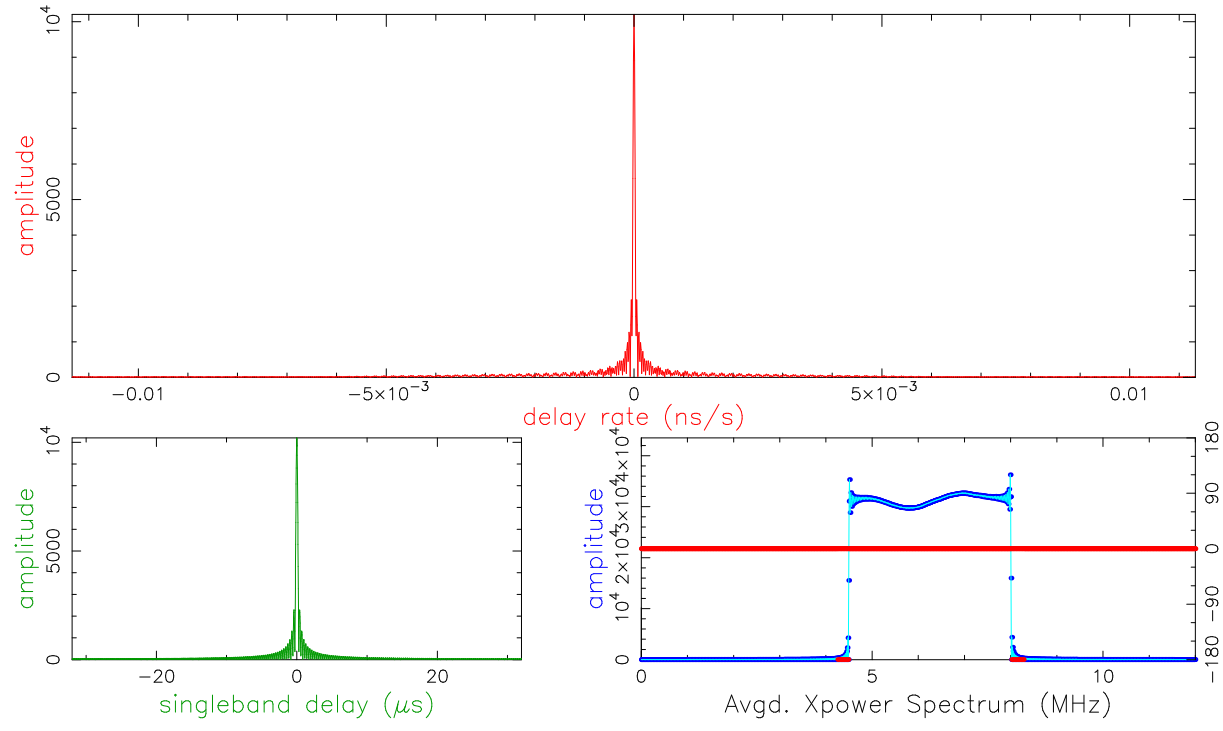
Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00 Freq (MHz)
0.2 Phase
3017.8 Ampl.
1537.0 Sbd box
U/L 581/0 APs used
f 0 PC freqs
f 0 PC freqs
f:f 0:0 PC phase
f:f 0:0 Manl PC
f 1000 PC amp
f 1000
f W03UL Chan ids
f W03UL Chan ids

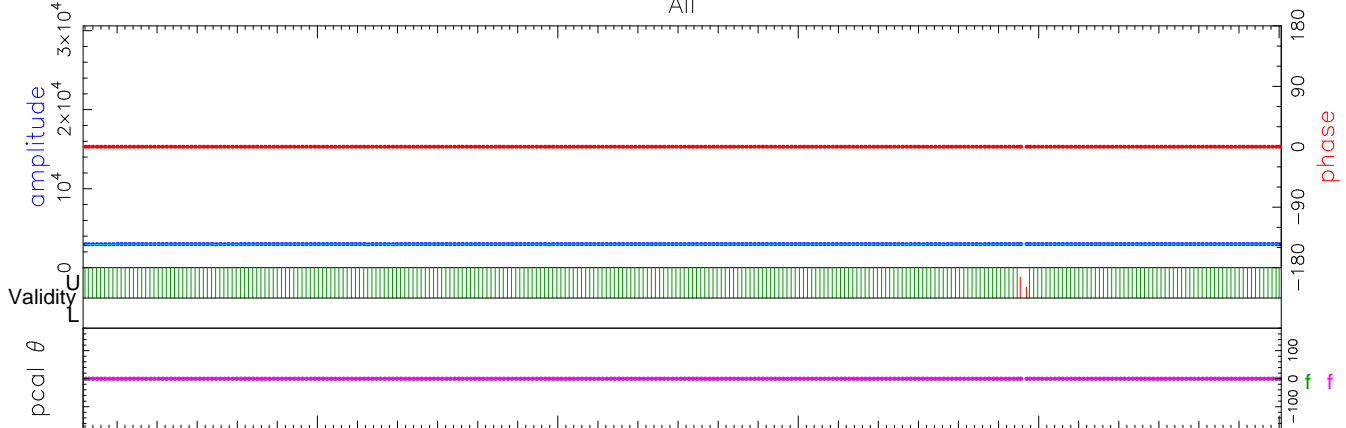
Group delay (usec)(sbd)	4.34898581651E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24831E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	7.82554912420E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82555E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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 0.0 RMS Theor. Amplitude 10300.816 +/- 0.139 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10300.816 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 3017.817 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
Inc. frq. avg. 10300.816 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 5
SNR 73537.6
Int time 296.266
Amp 10205.050
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051920
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



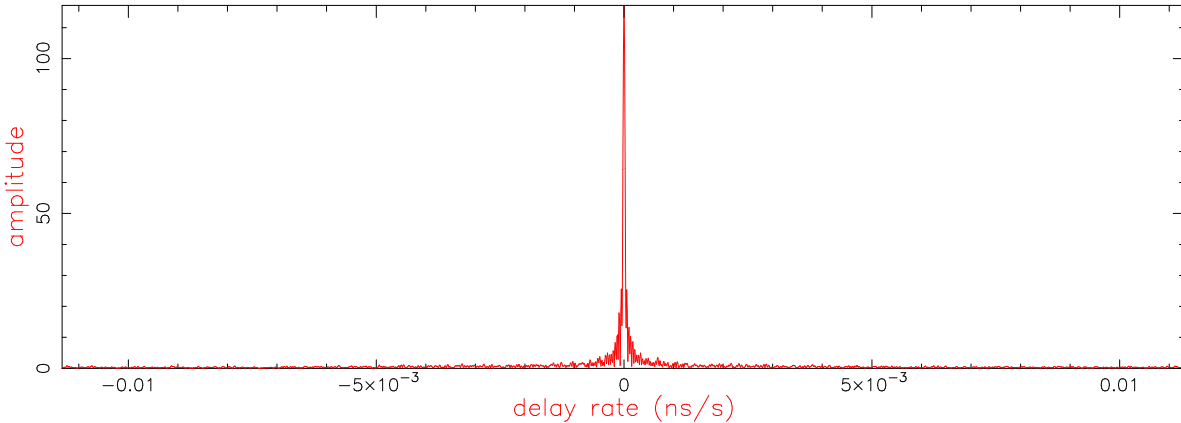
86227.00	0.2	2989.8	1537.0	U/L 581/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UR	f W03UR	86227.00	0.2	2989.8	1537.0	U/L 581/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UR	f W03UR	86227.00	0.2	2989.8	1537.0	U/L 581/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UR	f W03UR	86227.00	0.2	2989.8	1537.0	U/L 581/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UR	f W03UR	86227.00	0.2	2989.8	1537.0	U/L 581/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UR	f W03UR
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Group delay (usec)(sbd)	-4.77808575040E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.77809E-06	+/-	6.2E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	5.15860198267E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.15860E-09	+/-	5.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.2	+/-	0.0

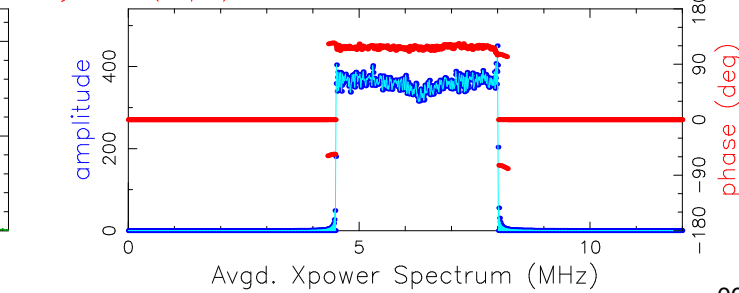
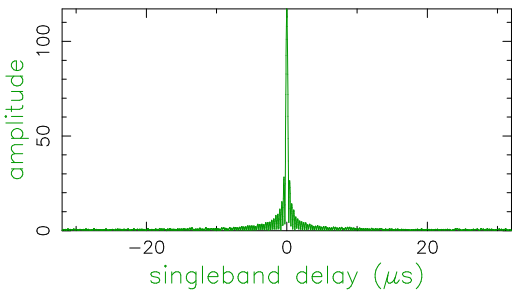
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10205.050 +/- 0.139	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	10205.050	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2989.761	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	10205.050	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

f: az 72.2 el 72.4 pa -96.7 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/ff..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/ff.W.79.1T5GR2

Fringe quality 5

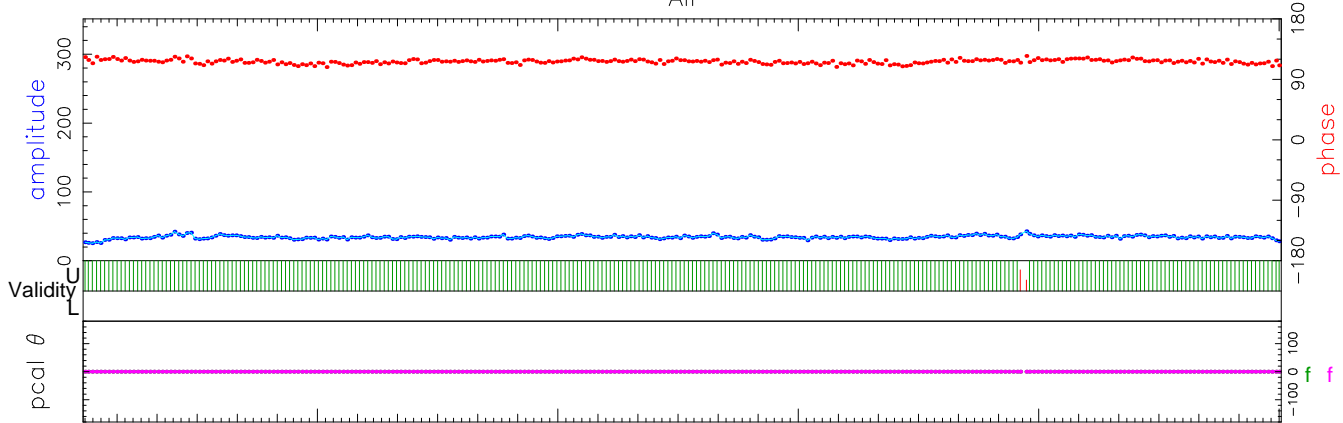


SNR 844.3
Int time 296.266
Amp 117.166
Phase 126.3
PFD 0.0e+00
Delays (us)
SBD -0.000319
MBD -0.000005
Fringe rate (Hz)
0.000006
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
116.5
34.3
1537.0
U/L 581/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UL
f 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)	-3.17880014381E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.75304E-06	+/- 5.4E-05
Sband delay (usec)	-3.18666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.18667E-04	+/- 5.4E-05
Phase delay (usec)	3.75778749088E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.75779E-06	+/- 4.4E-09
Delay rate (us/s)	6.66044162409E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	6.66044E-11	+/- 2.5E-11
Total phase (deg)	126.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	126.3	+/- 0.1

ph/seg (deg)	RMS 3.0	Theor. 1.2	Amplitude 117.166 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	2.0	Search (2048X8) 117.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 34.365	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 117.165	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

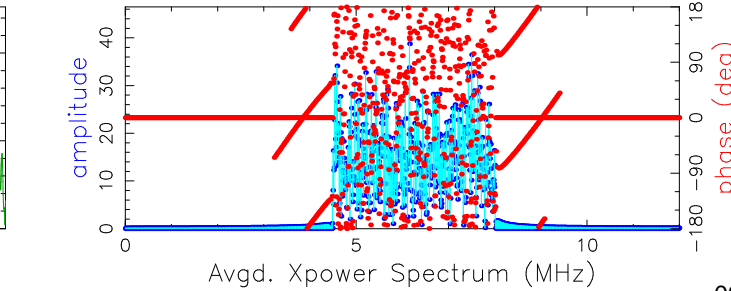
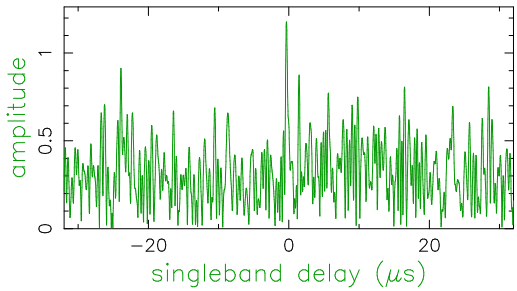
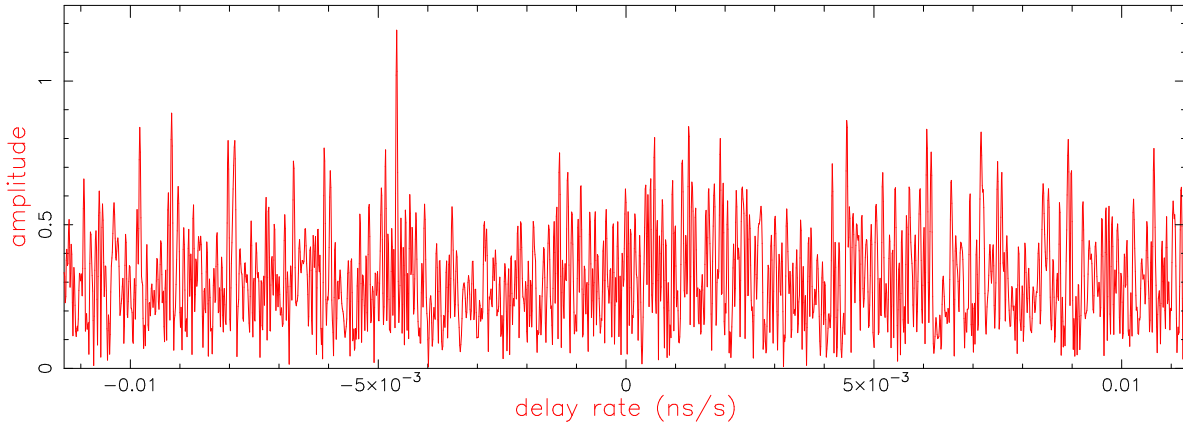
f: az 72.2 el 72.4 pa -96.7 f: az 72.2 el 72.4 pa -96.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/ff..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/ff.W.86.1T5GR2

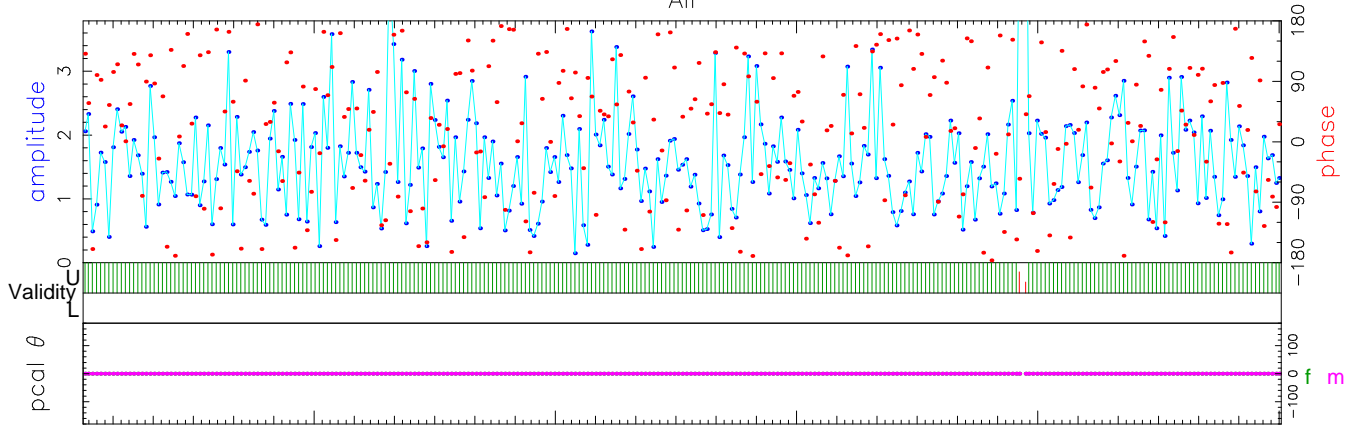
Fringe quality 8

SNR 8.5
Int time 295.277
Amp 1.263
Phase 320.1
PFD 3.9e-10
Delays (us)
SBD -0.340688
MBD -0.000006
Fringe rate (Hz)
-0.398604
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
89.9
0.4
1520.7
U/L 579/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UR

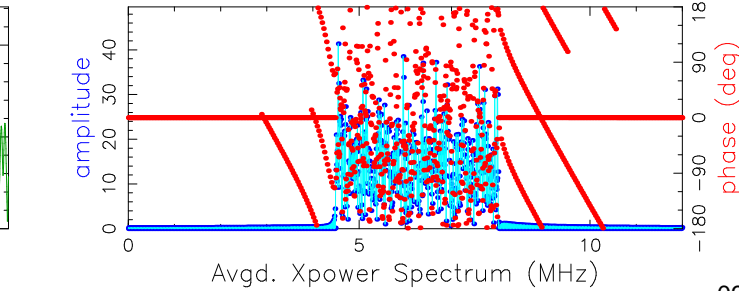
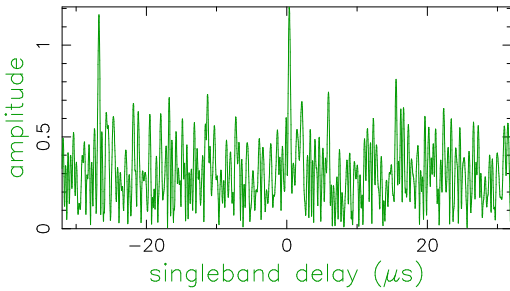
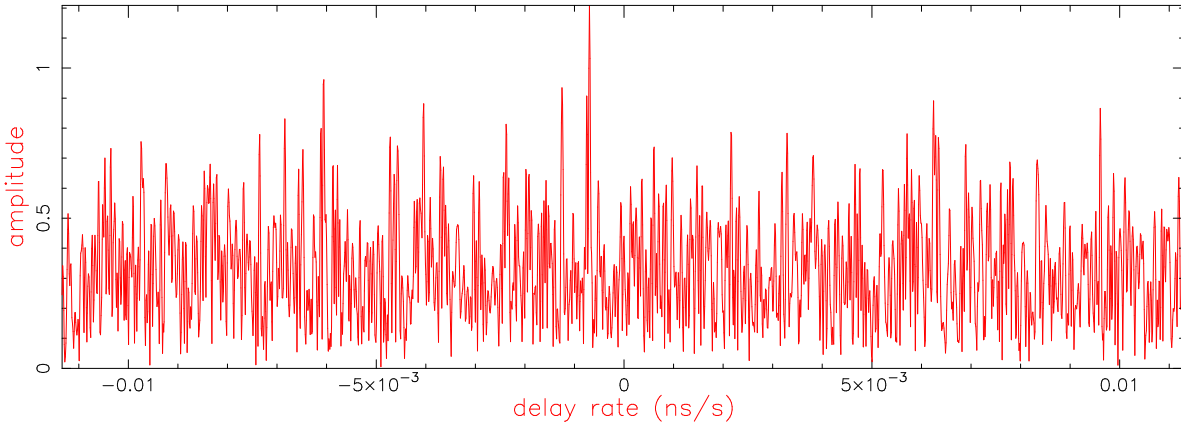
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09627845433E+04	Apriori delay (usec)	1.09631252314E+04	Resid mbdelay (usec)	-5.92882E-06	+/- 5.4E-03
Sband delay (usec)	1.09627845434E+04	Apriori clock (usec)	-5.4560204E+00	Resid sbdelay (usec)	-3.40688E-01	+/- 5.4E-03
Phase delay (usec)	1.09631252343E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.89998E-06	+/- 4.4E-07
Delay rate (us/s)	-7.68496094720E-01	Apriori rate (us/s)	-7.68491467324E-01	Resid rate (us/s)	-4.62740E-06	+/- 2.5E-09
Total phase (deg)	116.3	Apriori accel (us/s/s)	-4.74610786785E-05	Resid phase (deg)	320.1	+/- 13.5

ph/seg (deg)	RMS 93.1	Theor. 115.1	Amplitude 1.263 +/- 0.149	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.0	200.9	Search (2048X8) 1.169	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. seg. avg. 0.557	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.253	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

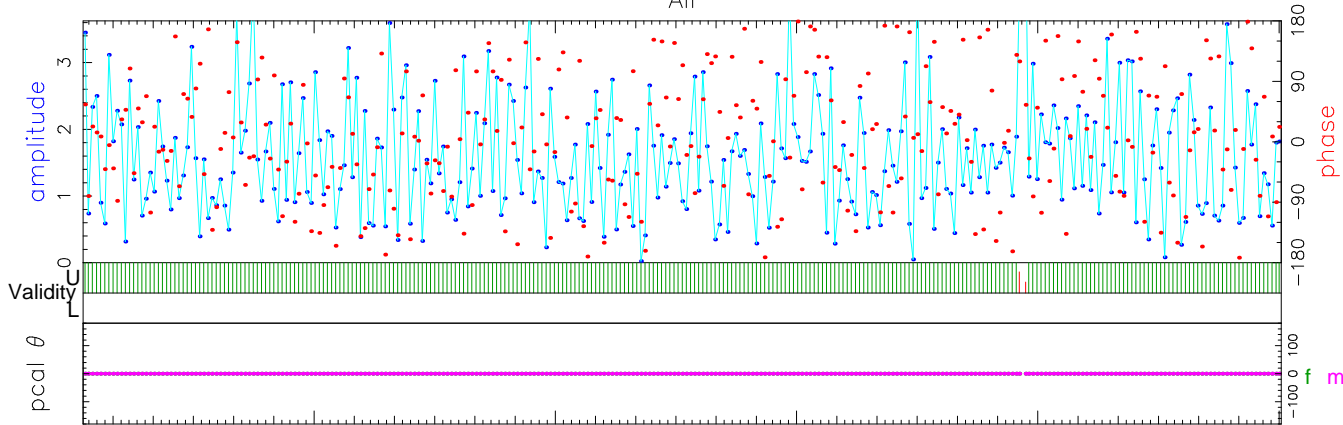
f: az 72.2 el 72.4 pa -96.7 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 5287.901 -1334.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fm.W.106.1T5GR2

Fringe quality 8



SNR 8.7
Int time 295.277
Amp 1.209
Phase -193.2
PFD 6.8e-11
Delays (us)
SBD 0.351037
MBD -0.000006
Fringe rate (Hz)
-0.060391
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
1.3
0.4
1553.9
U/L 579/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UR

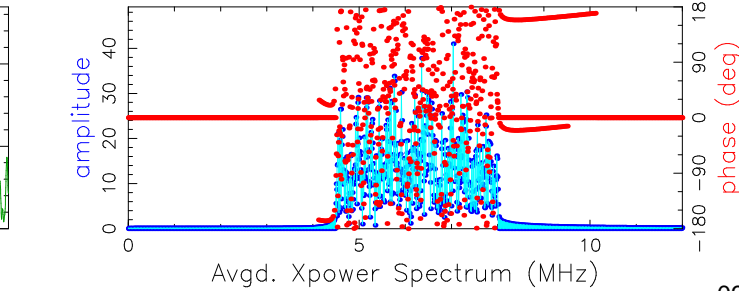
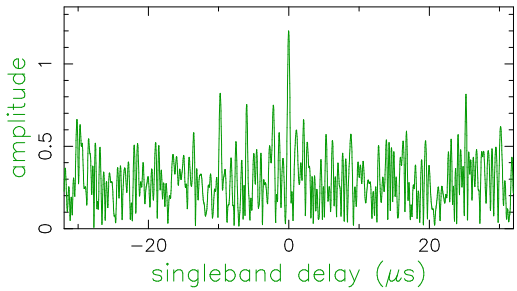
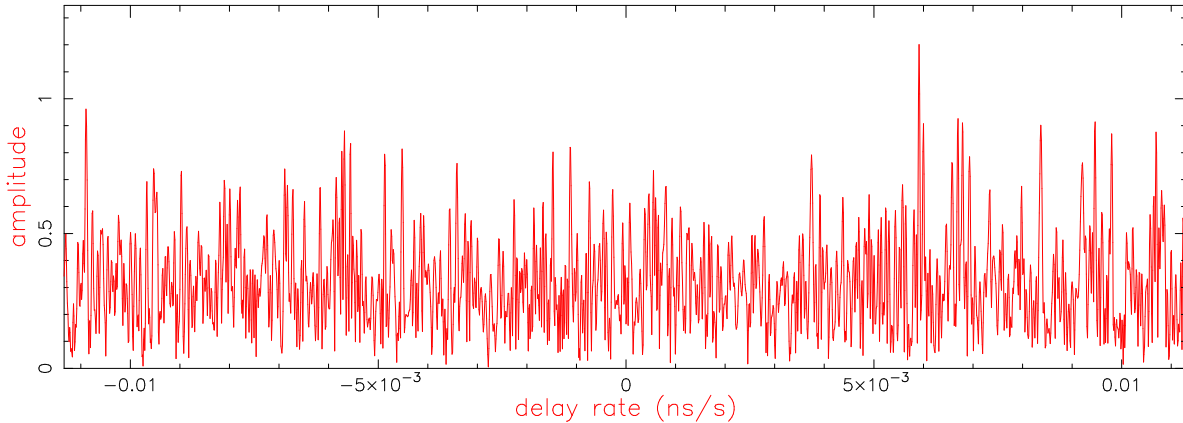
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09634762640E+04	Apriori delay (usec)	1.09631252314E+04	Resid mbdelay (usec)	-5.90302E-06	+/- 5.3E-03
Sband delay (usec)	1.09634762687E+04	Apriori clock (usec)	-5.4560204E+00	Resid sbdelay (usec)	3.51037E-01	+/- 5.3E-03
Phase delay (usec)	1.09631252315E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.26511E-08	+/- 4.3E-07
Delay rate (us/s)	-7.68492168398E-01	Apriori rate (us/s)	-7.68491467324E-01	Resid rate (us/s)	-7.01075E-07	+/- 2.5E-09
Total phase (deg)	-37.0	Apriori accel (us/s/s)	-4.74610786785E-05	Resid phase (deg)	-193.2	+/- 13.2

ph/seg (deg)	RMS 91.4	Theor. 112.4	Amplitude 1.209 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.3	196.1	Search (2048X8) 1.182	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.5	Inc. seg. avg. 0.540	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.201	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

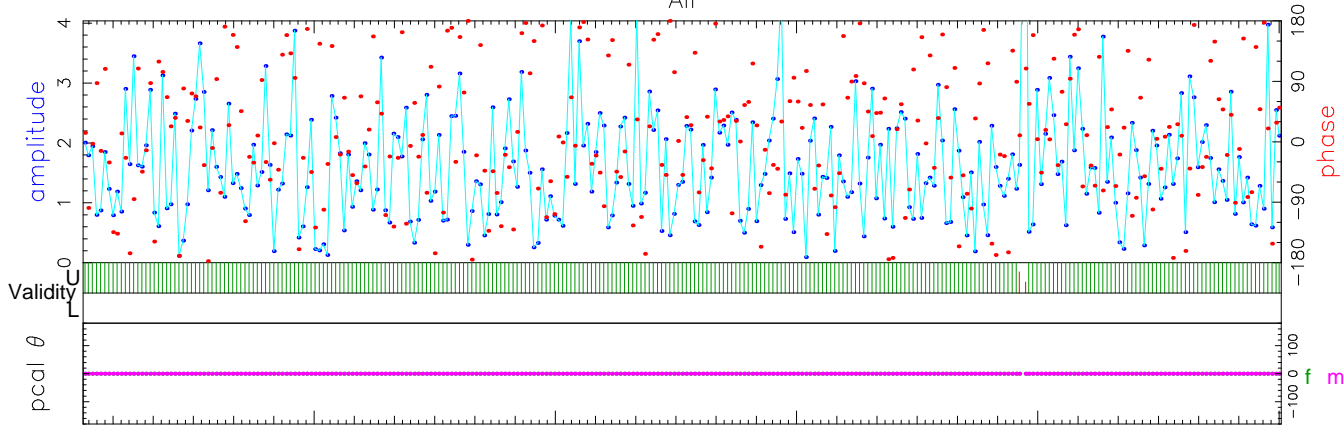
f: az 72.2 el 72.4 pa -96.7 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 5287.901 -1334.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fm.W.119.1T5GR2

Fringe quality 8



SNR 8.6
Int time 295.277
Amp 1.346
Phase 52.4
PFD 9.9e-11
Delays (us)
SBD -0.024188
MBD 0.000006
Fringe rate (Hz)
0.508864
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
14.7
0.4
1535.8
U/L 579/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UL

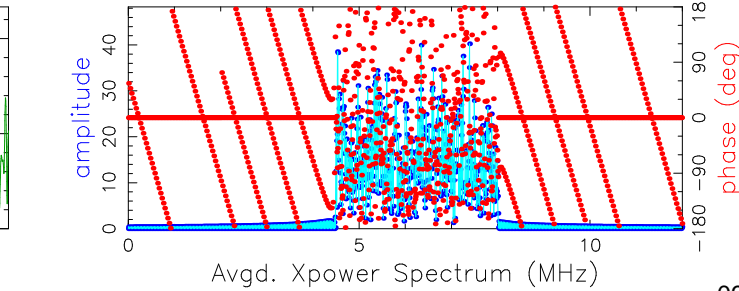
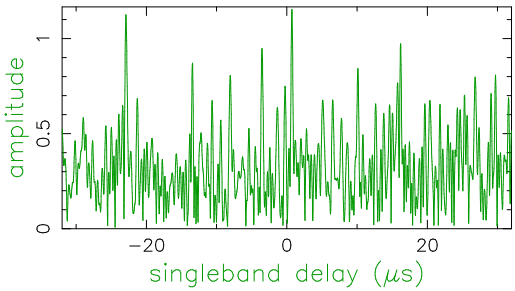
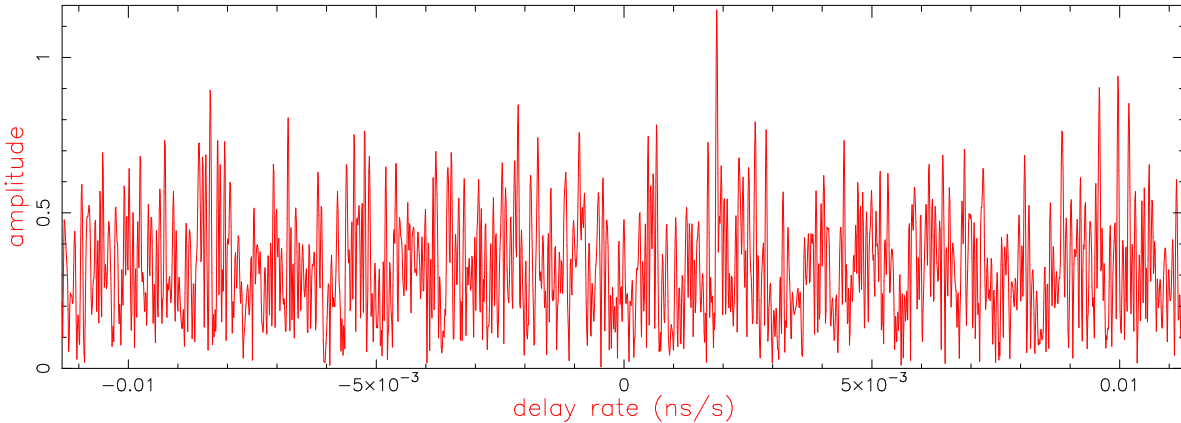
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09631010454E+04	Apriori delay (usec)	1.09631252314E+04	Resid mbdelay (usec)	5.99367E-06	+/-	5.3E-03
Sband delay (usec)	1.09631010434E+04	Apriori clock (usec)	-5.4560204E+00	Resid sbdelay (usec)	-2.41880E-02	+/-	5.3E-03
Phase delay (usec)	1.09631252319E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.75634E-07	+/-	4.3E-07
Delay rate (us/s)	-7.68485559922E-01	Apriori rate (us/s)	-7.68491467324E-01	Resid rate (us/s)	5.90740E-06	+/-	2.5E-09
Total phase (deg)	208.6	Apriori accel (us/s/s)	-4.74610786785E-05	Resid phase (deg)	52.4	+/-	13.3

ph/seg (deg)	RMS 94.2	Theor. 112.9	Amplitude Search (2048X8)	1.346 +/- 0.156	1.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.5	197.1	Interp.	0.000	0.607	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.607	1.337	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.337		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

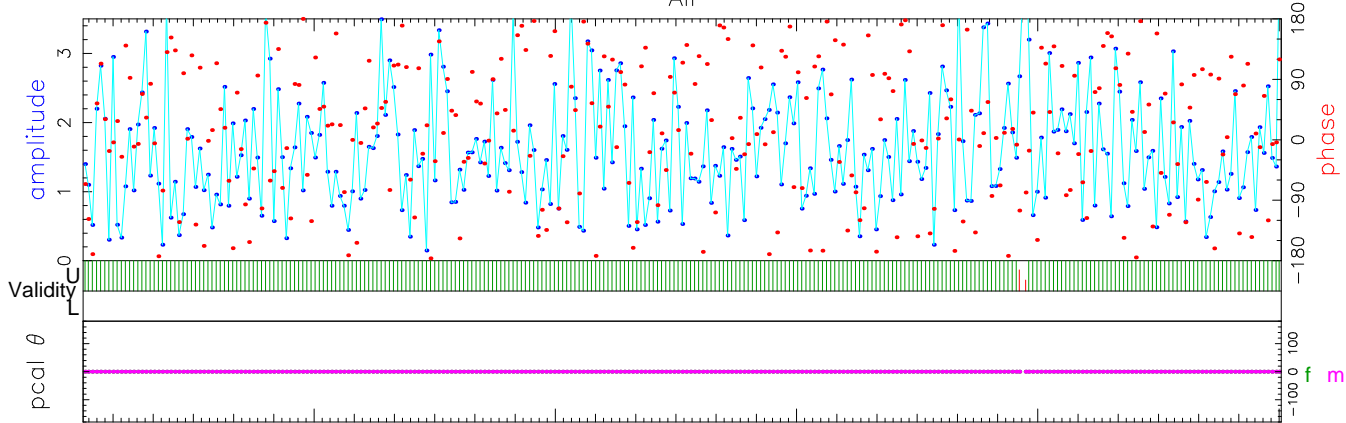
f: az 72.2 el 72.4 pa -96.7 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 5287.901 -1334.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fm.W.127.1T5GR2

Fringe quality 8



SNR 8.3
Int time 295.277
Amp 1.167
Phase -173.6
PFD 1.7e-09
Delays (us)
SBD 0.720323
MBD 0.000006
Fringe rate (Hz)
0.161101
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
66.8
0.3
1571.6
U/L 579/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m 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)	1.0963845571E+04	Apriori delay (usec)	1.09631252314E+04	Resid mbdelay (usec)	6.04340E-06	+/-	5.5E-03
Sband delay (usec)	1.0963845541E+04	Apriori clock (usec)	-5.4560204E+00	Resid sbdelay (usec)	7.20323E-01	+/-	5.5E-03
Phase delay (usec)	1.09631252336E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.15545E-06	+/-	4.4E-07
Delay rate (us/s)	-7.68489597104E-01	Apriori rate (us/s)	-7.68491467324E-01	Resid rate (us/s)	1.87022E-06	+/-	2.6E-09
Total phase (deg)	-17.4	Apriori accel (us/s/s)	-4.74610786785E-05	Resid phase (deg)	-173.6	+/-	13.8

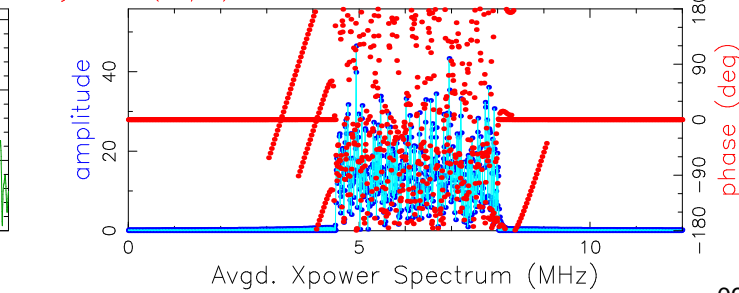
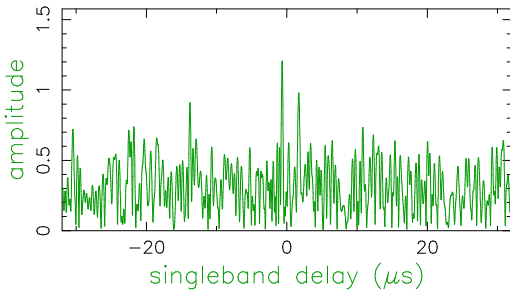
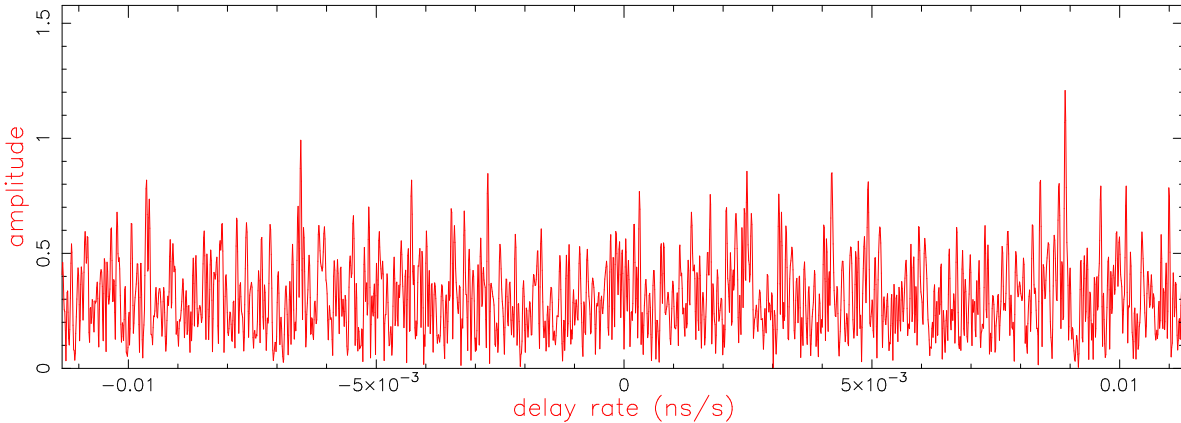
ph/seg (deg)	RMS 94.3	Theor. 117.5	Amplitude Search (2048X8)	1.167 +/- 0.141	1.144	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.4	205.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	0.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.524	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011	0.011	0.000
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.157	Data rate(Mb/s): 48		ion window (TEC)	0.00	0.00	0.000

f: az 72.2 el 72.4 pa -96.7 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 5287.901 -1334.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fm.W.81.1T5GR2

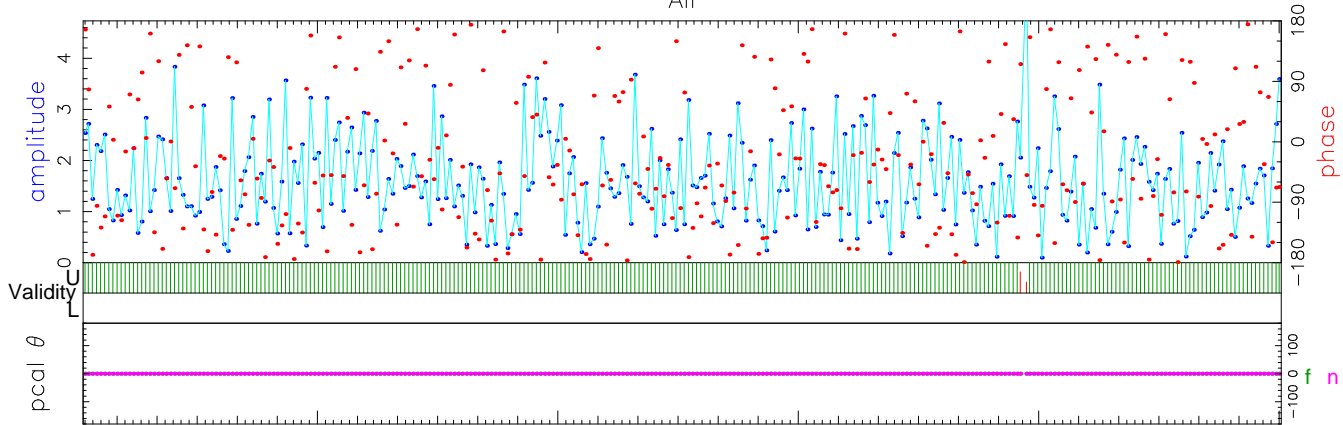
Fringe quality 8

SNR 8.7
Int time 296.266
Amp 1.577
Phase 333.5
PFD 5.7e-11
Delays (us)
SBD -0.668993
MBD 0.000004
Fringe rate (Hz)
0.765736
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-99.6
0.5
1504.9
U/L 581/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UR

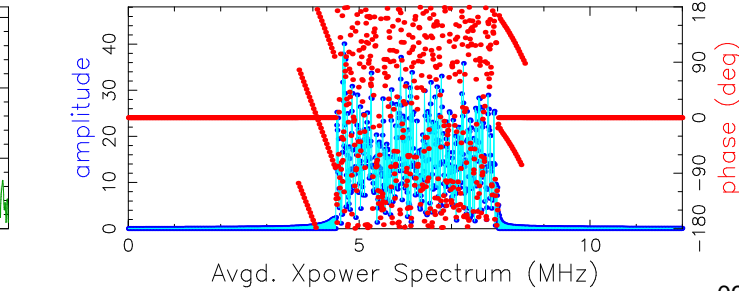
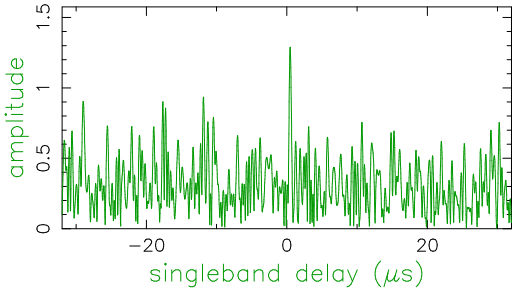
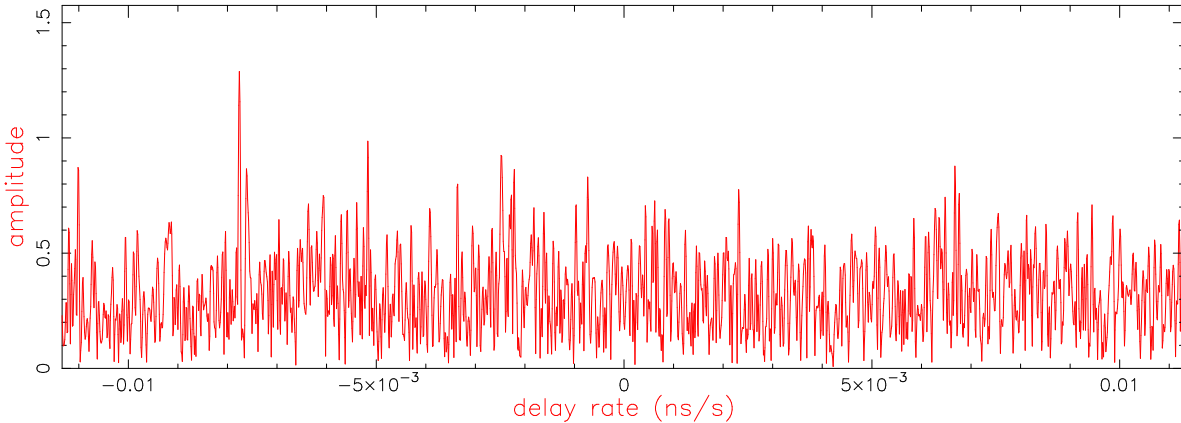
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.45755993599E+02	Apriori delay (usec)	-6.45086996361E+02	Resid mbdelay (usec)	4.35163E-06	+/-	5.3E-03
Sband delay (usec)	-6.45755989695E+02	Apriori clock (usec)	4.7769794E+00	Resid sbdelay (usec)	-6.68993E-01	+/-	5.3E-03
Phase delay (usec)	-6.45086999574E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.21288E-06	+/-	4.2E-07
Delay rate (us/s)	2.49819646414E-01	Apriori rate (us/s)	2.49810756982E-01	Resid rate (us/s)	8.88943E-06	+/-	2.5E-09
Total phase (deg)	21.5	Apriori accel (us/s/s)	-6.51825984115E-06	Resid phase (deg)	333.5	+/-	13.2

ph/seg (deg)	RMS 92.0	Theor. 112.3	Amplitude Search (2048X8)	1.577 +/- 0.181	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.6	196.0	Interp.	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	6.6	Inc. seg. avg.	0.706	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.567	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

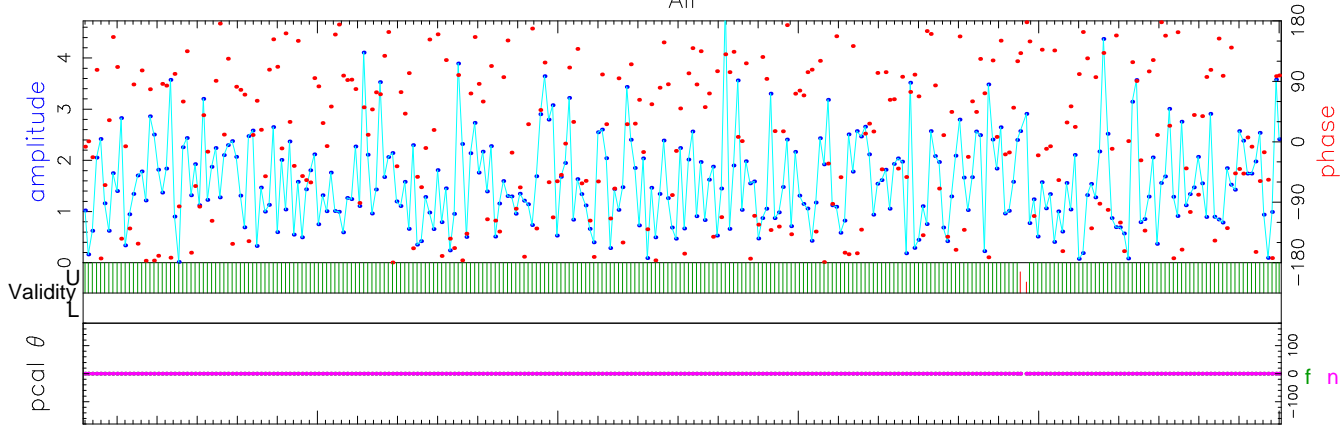
f: az 72.2 el 72.4 pa -96.7 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -1738.967 -1485.844 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fn.W.103.1T5GR2

Fringe quality 8



SNR 9.3
Int time 296.266
Amp 1.575
Phase -315.7
PFD 2.9e-13
Delays (us)
SBD 0.473317
MBD -0.000005
Fringe rate (Hz)
-0.668277
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



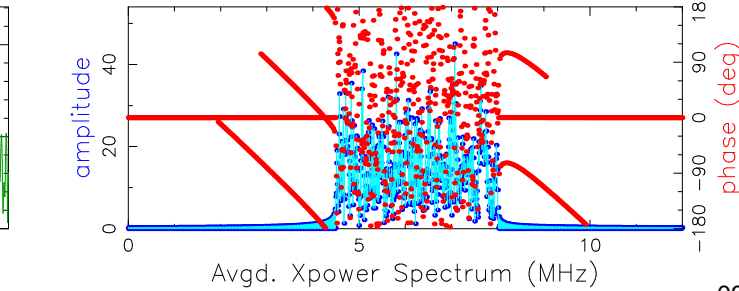
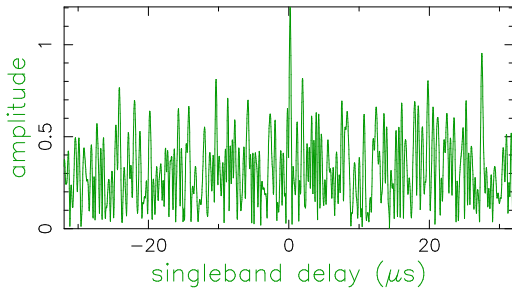
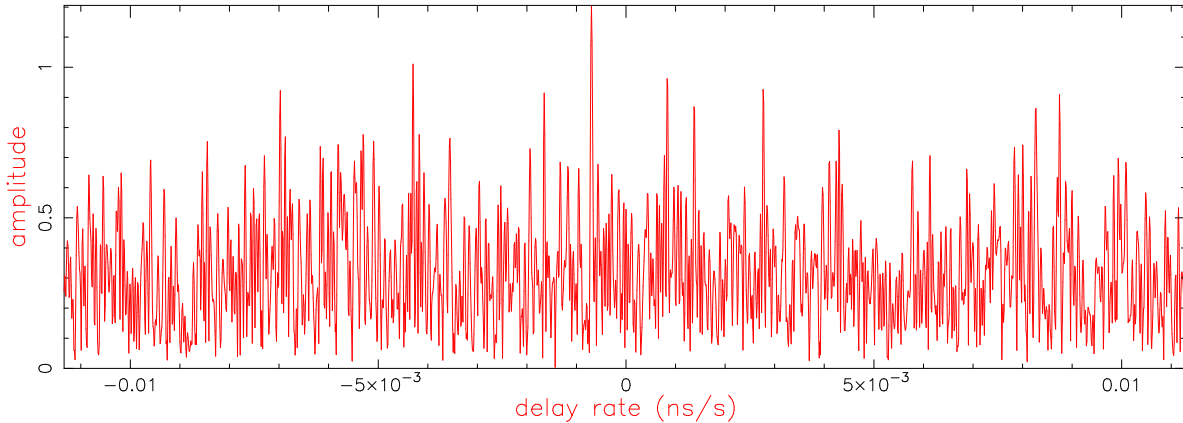
86227.00
108.7
0.5
1559.7
U/L 581/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UL

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)	-6.44613680859E+02	Apriori delay (usec)	-6.45086996361E+02	Resid mbdelay (usec)	-4.91967E-06	+/-	4.9E-03
Sband delay (usec)	-6.44613679028E+02	Apriori clock (usec)	4.7769794E+00	Resid sbdelay (usec)	4.73317E-01	+/-	4.9E-03
Phase delay (usec)	-6.45086992855E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.50662E-06	+/-	4.0E-07
Delay rate (us/s)	2.49802998947E-01	Apriori rate (us/s)	2.49810756982E-01	Resid rate (us/s)	-7.75804E-06	+/-	2.3E-09
Total phase (deg)	-267.6	Apriori accel (us/s/s)	-6.51825984115E-06	Resid phase (deg)	-315.7	+/-	12.3

ph/seg (deg)	93.2	Theor.	105.2	Amplitude	1.575 +/- 0.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.1	Search (2048X8)	1.273	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.716	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.566	Inc. frq. avg.	1.566	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
f: az 72.2 el 72.4 pa -96.7		n: az 136.7 el 80.3 pa -37.3		u,v (fr/asec)	-1738.967 -1485.844	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0013/fn..1T5GR2		Output file: /Exps/c211d/v1/LINES1/1234/No0013/fn.W.117.1T5GR2		nlags: 1536 t_cohere infinite	simultaneous interpolator

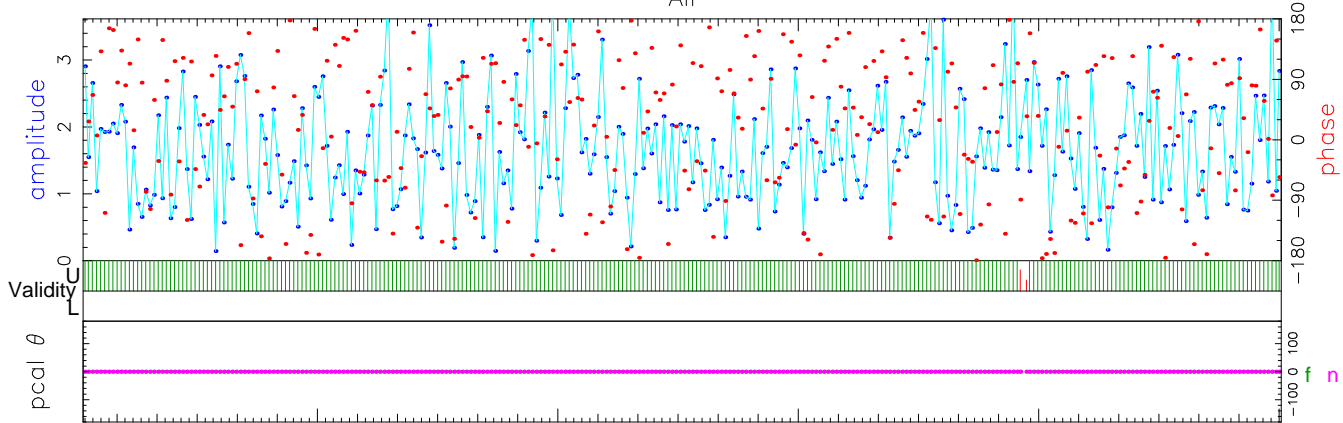
Fringe quality 8



SNR 8.7
Int time 296.266
Amp 1.205
Phase -54.8
PFD 7.3e-11
Delays (us)
SBD 0.188565
MBD -0.000007
Fringe rate (Hz)
-0.059616
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
91.3
0.4
1546.1
U/L 581/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UL

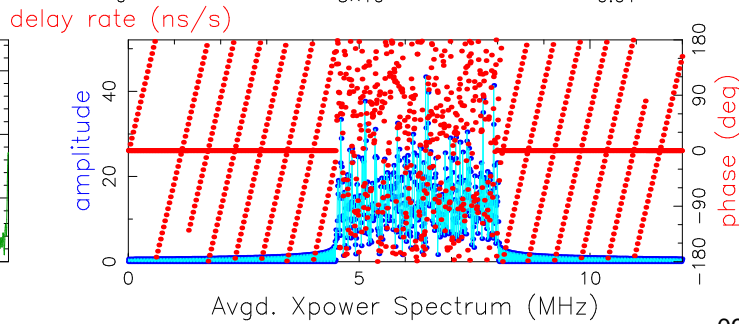
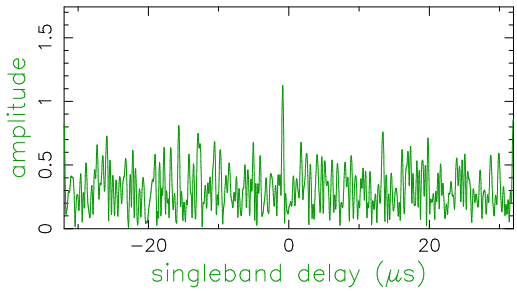
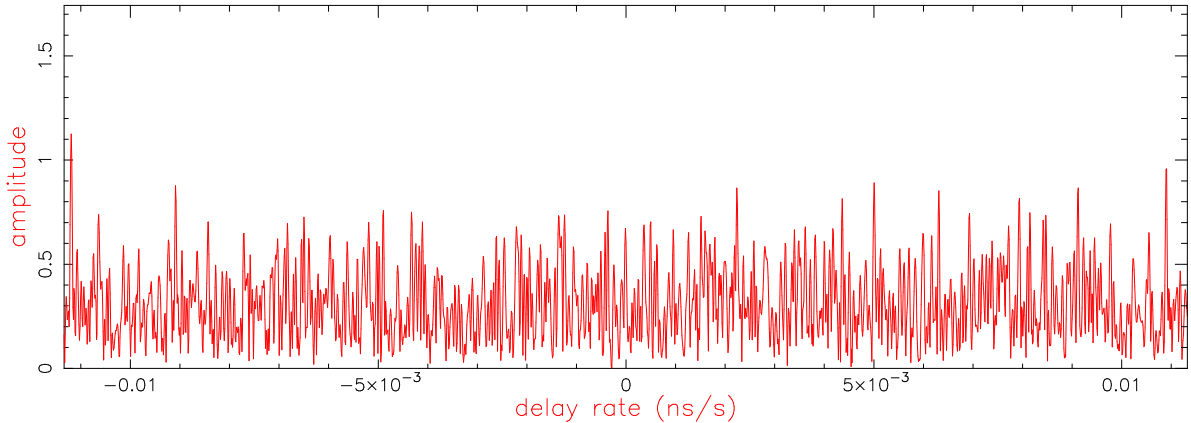
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.44898431235E+02	Apriori delay (usec)	-6.45086996361E+02	Resid mbdelay (usec)	-6.89891E-06	+/-	5.3E-03
Sband delay (usec)	-6.44898431028E+02	Apriori clock (usec)	4.7769794E+00	Resid sbdelay (usec)	1.88565E-01	+/-	5.3E-03
Phase delay (usec)	-6.45086993417E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.94470E-06	+/-	4.3E-07
Delay rate (us/s)	2.49810064896E-01	Apriori rate (us/s)	2.49810756982E-01	Resid rate (us/s)	-6.92086E-07	+/-	2.5E-09
Total phase (deg)	-6.7	Apriori accel (us/s/s)	-6.51825984115E-06	Resid phase (deg)	-54.8	+/-	13.2

ph/seg (deg)	RMS 91.2	Theor. 112.7	Amplitude Search (2048X8)	1.205 +/- 0.139	1.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.8	196.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.569	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.197	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) -1738.967 -1485.844		ion window (TEC) 0.00 0.00	

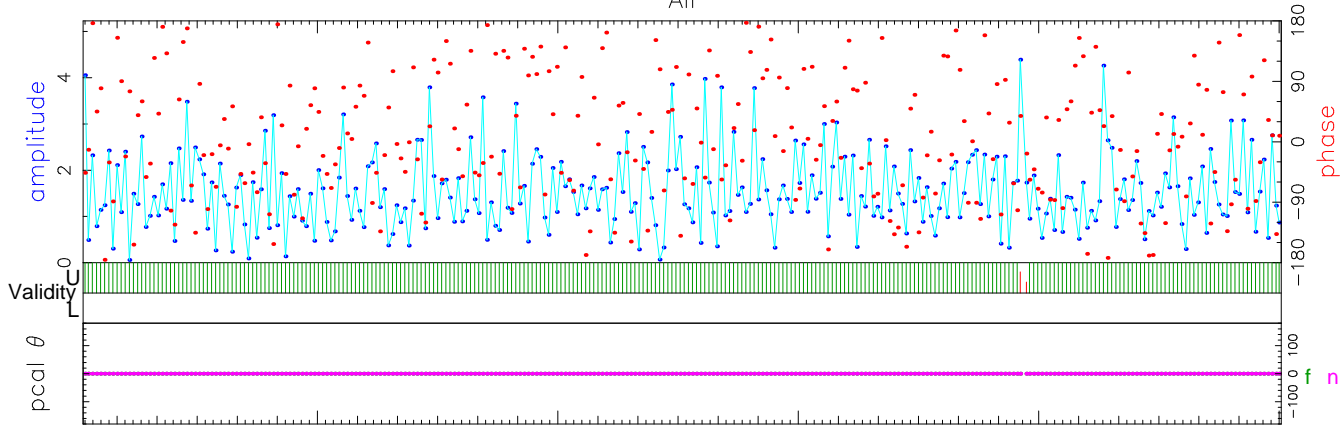
f: az 72.2 el 72.4 pa -96.7 n: az 136.7 el 80.3 pa -37.3 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fn.W.84.1T5GR2

Fringe quality 8



SNR 8.1
Int time 296.266
Amp 1.743
Phase 282.1
PFD 8.5e-09
Delays (us)
SBD -0.870681
MBD -0.000006
Fringe rate (Hz)
-0.962851
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
12.5
0.5
1495.2
U/L 581/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UR

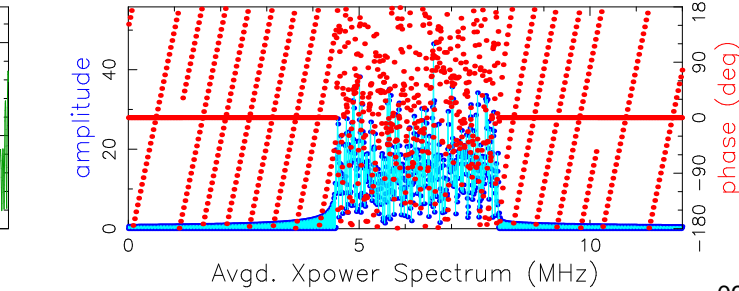
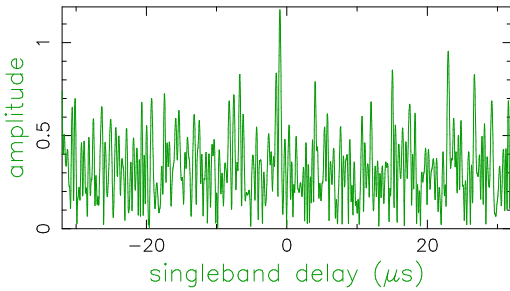
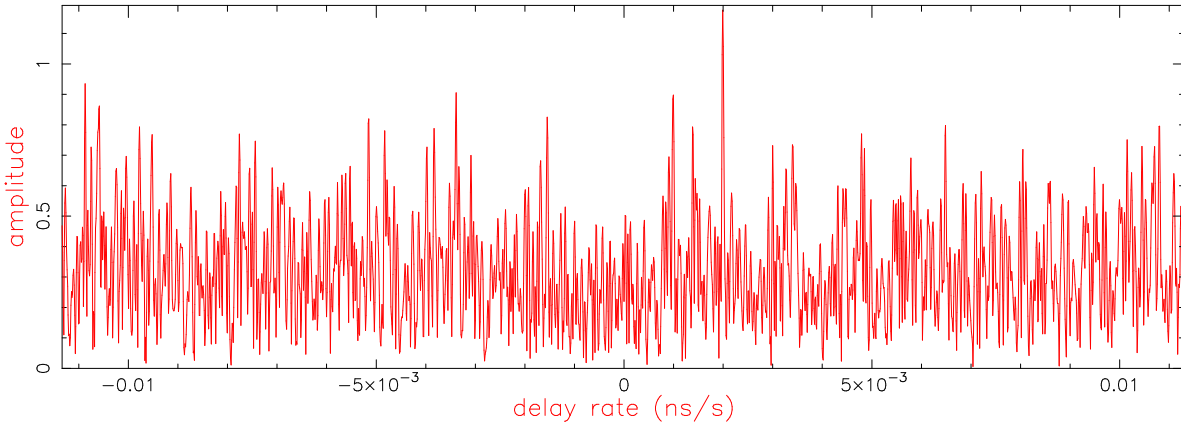
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.45957681246E+02	Apriori delay (usec)	-6.45086996361E+02	Resid mbdelay (usec)	-6.32711E-06	+/- 5.7E-03
Sband delay (usec)	-6.45957677695E+02	Apriori clock (usec)	4.7769794E+00	Resid sbdelay (usec)	-8.70681E-01	+/- 5.7E-03
Phase delay (usec)	-6.45086995959E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.02275E-07	+/- 4.6E-07
Delay rate (us/s)	2.49799579234E-01	Apriori rate (us/s)	2.49810756982E-01	Resid rate (us/s)	-1.11777E-05	+/- 2.7E-09
Total phase (deg)	330.2	Apriori accel (us/s/s)	-6.51825984115E-06	Resid phase (deg)	282.1	+/- 14.1

ph/seg (deg)	RMS 90.4	Theor. 120.6	Amplitude Search (2048X8)	1.743 +/- 0.215	1.103	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.6	210.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.737	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.729	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	
						ion window (TEC) 0.00 0.00	

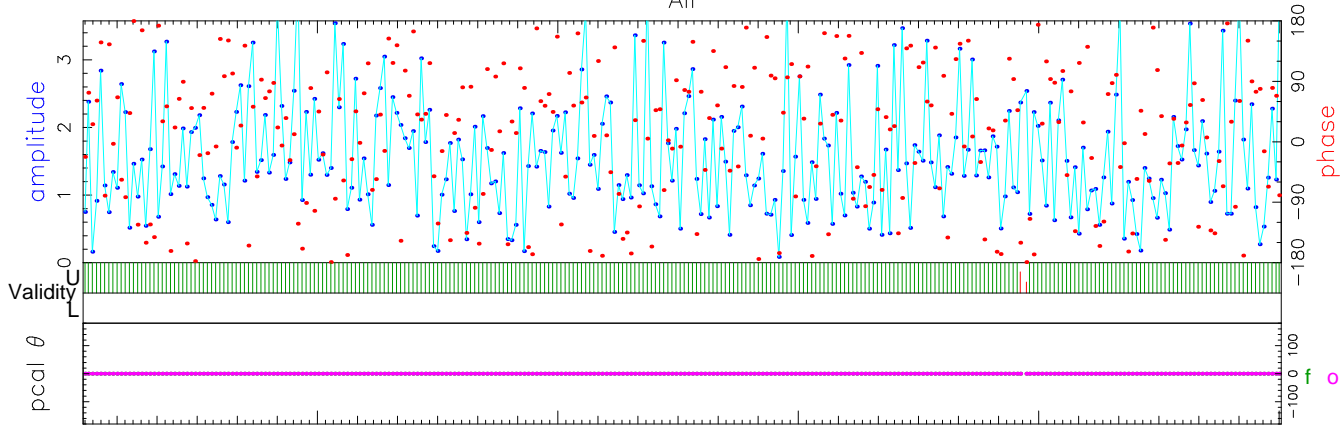
f: az 72.2 el 72.4 pa -96.7 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -1738.967 -1485.844 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fn.W.96.1T5GR2

Fringe quality 8



SNR 8.5
Int time 296.266
Amp 1.192
Phase 346.2
PFD 3.7e-10
Delays (us)
SBD -0.986176
MBD 0.000007
Fringe rate (Hz)
0.171446
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
58.9
0.3
1489.7
U/L 581/0
f 0
o 0
f:o 0:0
fo 0:0
f 1000
o 1000
f W03UL
o W03UR

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)	1.50243808739E+03	Apriori delay (usec)	1.50342426783E+03	Resid mbdelay (usec)	7.18452E-06	+/-	5.4E-03
Sband delay (usec)	1.50243809183E+03	Apriori clock (usec)	6.5059795E+00	Resid sbdelay (usec)	-9.86176E-01	+/-	5.4E-03
Phase delay (usec)	1.50342426972E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.89776E-06	+/-	4.4E-07
Delay rate (us/s)	-1.99177756832E-01	Apriori rate (us/s)	-1.99179747156E-01	Resid rate (us/s)	1.99032E-06	+/-	2.5E-09
Total phase (deg)	141.2	Apriori accel (us/s/s)	-1.40416343967E-05	Resid phase (deg)	346.2	+/-	13.5

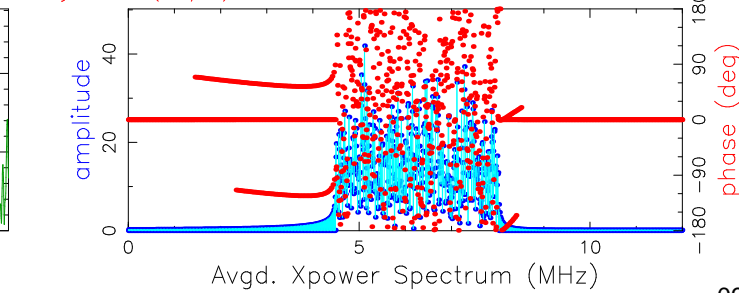
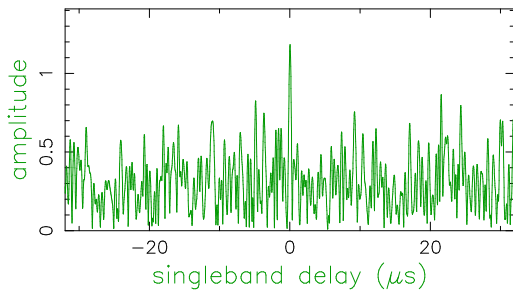
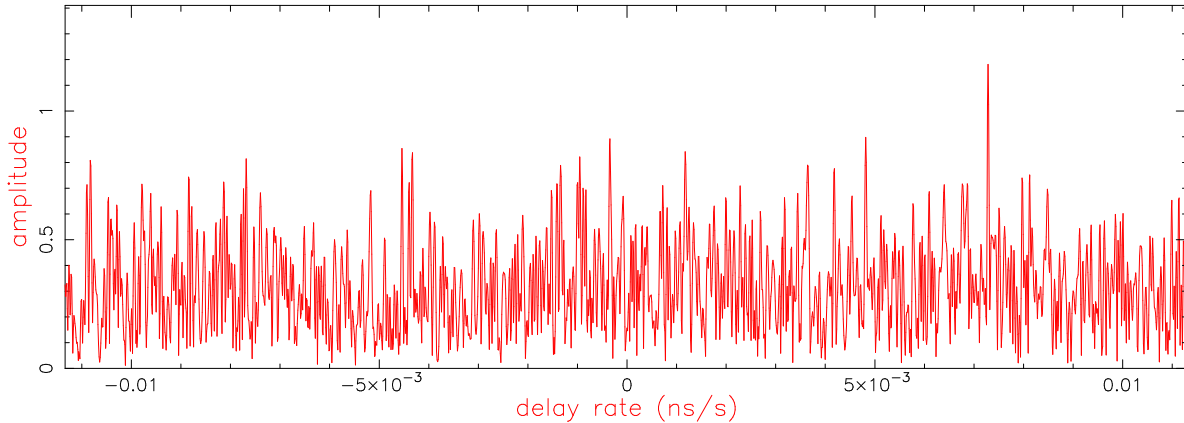
ph/seg (deg)	RMS 91.7	Theor. 115.2	Amplitude Search (2048X8)	1.192 +/- 0.141	1.164	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.7	201.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.524	0.524	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.183	1.183	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Data rate(Mb/s): 48		nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) 1370.288 -1459.460		ion window (TEC) 0.00 0.00	

f: az 72.2 el 72.4 pa -96.7 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 1370.288 -1459.460 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fo.W.111.1T5GR2

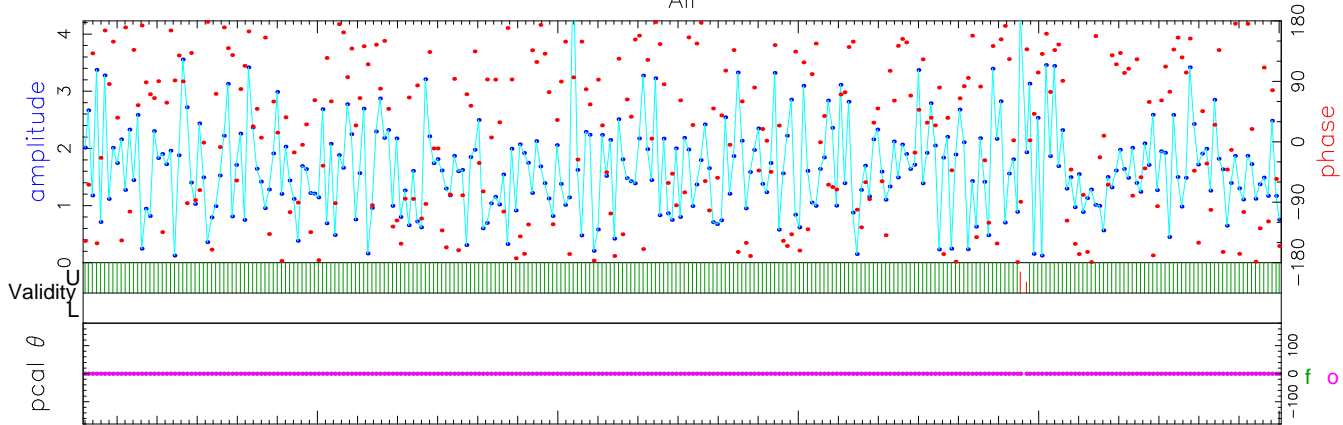
Fringe quality 8

SNR 8.5
Int time 296.266
Amp 1.411
Phase -139.3
PFD 2.6e-10
Delays (us)
SBD 0.031393
MBD 0.000007
Fringe rate (Hz)
0.627204
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
123.6
0.4
1538.5
U/L 581/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UL

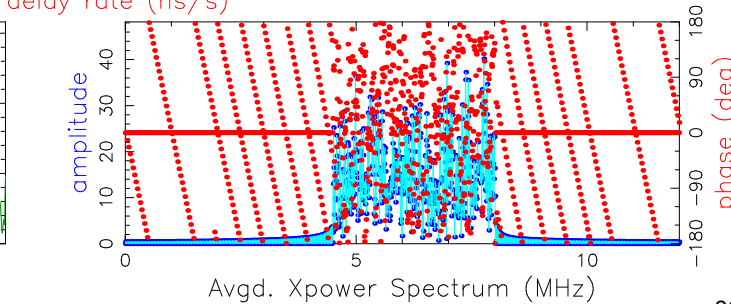
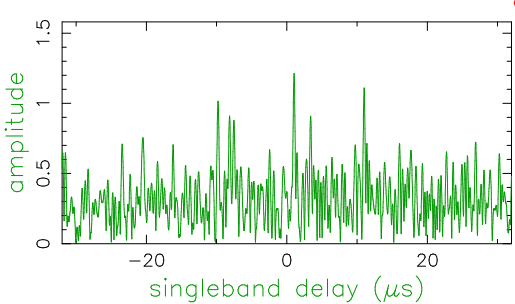
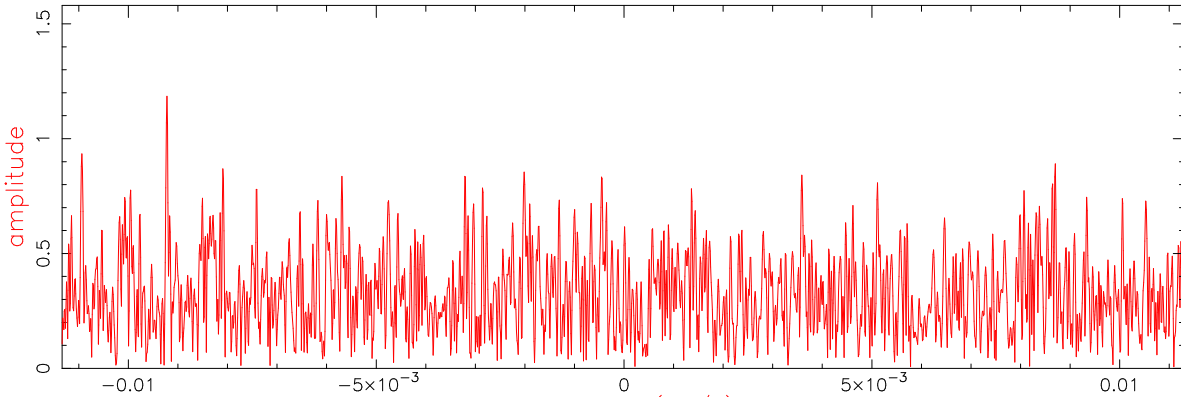
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.5034556672E+03	Apriori delay (usec)	1.50342426783E+03	Resid mbdelay (usec)	6.60990E-06	+/-	5.4E-03
Sband delay (usec)	1.50345566116E+03	Apriori clock (usec)	6.5059795E+00	Resid sbdelay (usec)	3.13933E-02	+/-	5.4E-03
Phase delay (usec)	1.50342427181E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.98419E-06	+/-	4.3E-07
Delay rate (us/s)	-1.99172465937E-01	Apriori rate (us/s)	-1.99179747156E-01	Resid rate (us/s)	7.28122E-06	+/-	2.5E-09
Total phase (deg)	-344.3	Apriori accel (us/s/s)	-1.40416343967E-05	Resid phase (deg)	-139.3	+/-	13.4

ph/seg (deg)	RMS 92.7	Theor. 114.6	Amplitude Search (2048X8)	1.411 +/- 0.165	1.155	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.5	200.1	Interp.	0.000	1.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.656	1.155	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.399	1.155	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00
							nlags: 1536 t_cohere infinite

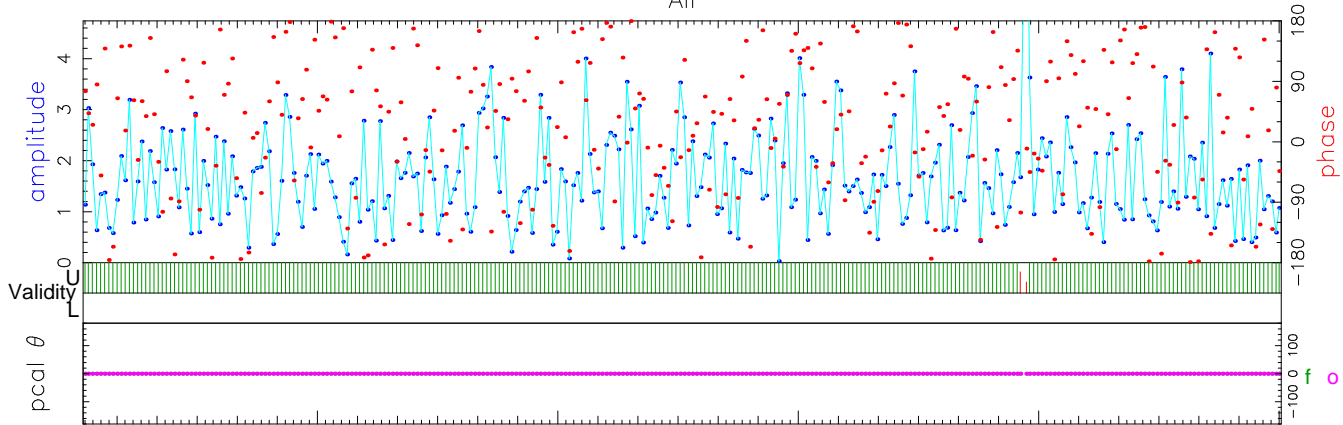
f: az 72.2 el 72.4 pa -96.7 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 1370.288 -1459.460 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fo.W.123.1T5GR2

Fringe quality 8



SNR 8.5
Int time 296.266
Amp 1.581
Phase -299.8
PFD 2.3e-10
Delays (us)
SBD 1.000000
MBD -0.000007
Fringe rate (Hz)
-0.793602
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



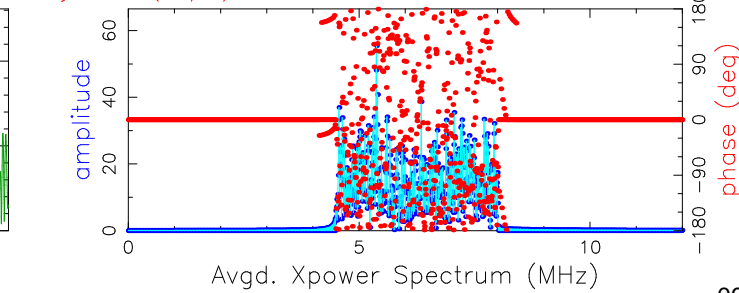
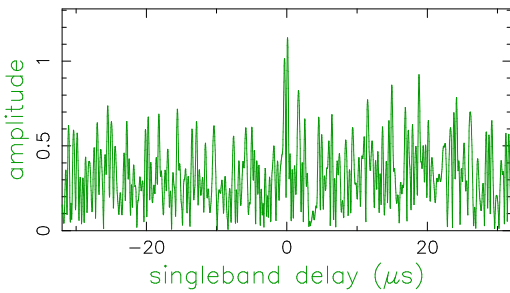
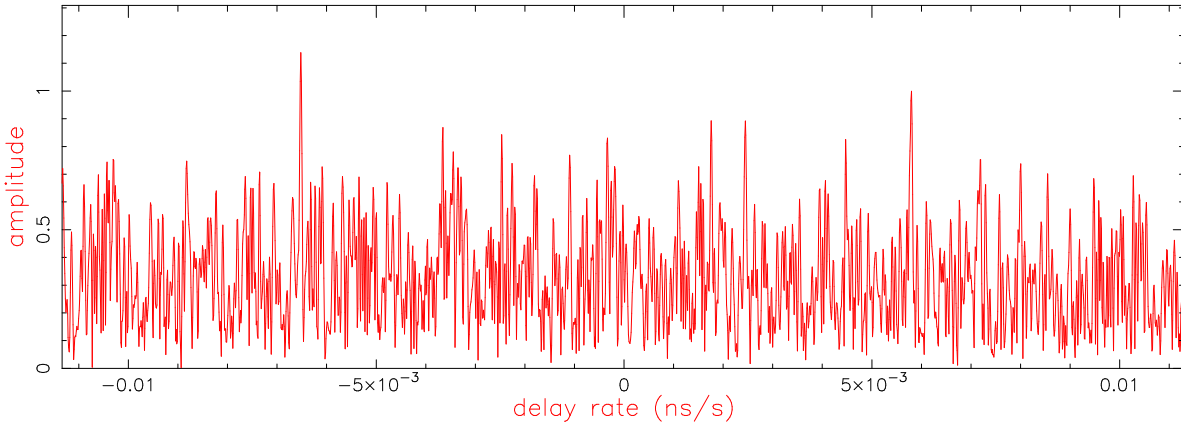
86227.00
60.6
0.5
1586.6
U/L 581/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UL

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)	1.50442427265E+03	Apriori delay (usec)	1.50342426783E+03	Resid mbdelay (usec)	-6.77319E-06	+/- 5.4E-03
Sband delay (usec)	1.50442426783E+03	Apriori clock (usec)	6.5059795E+00	Resid sbdelay (usec)	1.00000E+00	+/- 5.4E-03
Phase delay (usec)	1.50342426978E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.95319E-06	+/- 4.3E-07
Delay rate (us/s)	-1.99188960089E-01	Apriori rate (us/s)	-1.99179747156E-01	Resid rate (us/s)	-9.21293E-06	+/- 2.5E-09
Total phase (deg)	-144.8	Apriori accel (us/s/s)	-1.40416343967E-05	Resid phase (deg)	-299.8	+/- 13.4

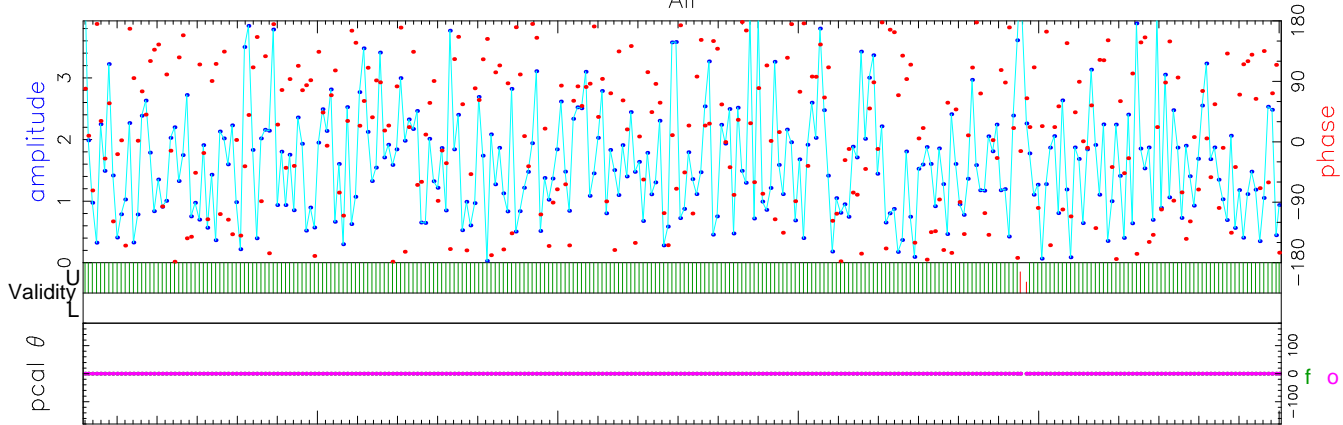
ph/seg (deg)	RMS 90.8	Theor. 114.5	Amplitude Search (2048X8)	1.581 +/- 0.185	1.175	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.4	199.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.729	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.570	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				f, u, v (fr/asec) 1370.288 -1459.460	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00	simultaneous interpolator

Fringe quality 8



SNR 8.2
Int time 296.266
Amp 1.309
Phase -231.4
PFD 3.9e-09
Delays (us)
SBD 0.102041
MBD -0.000006
Fringe rate (Hz)
-0.560724
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
84.7
0.4
1541.9
U/L 581/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UR

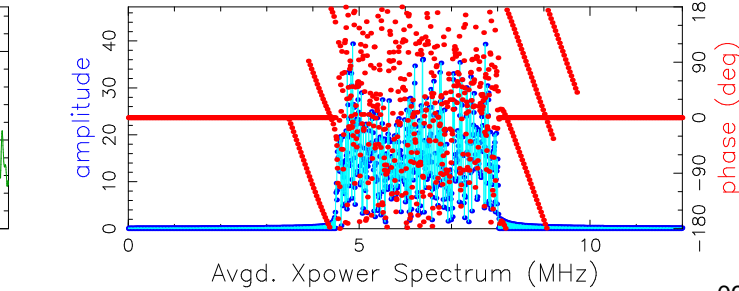
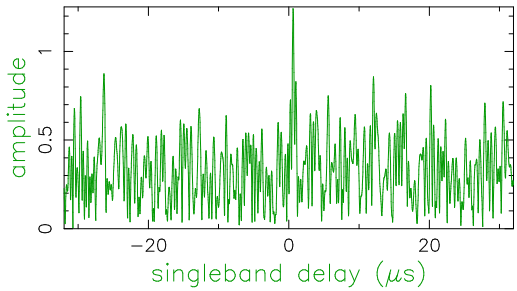
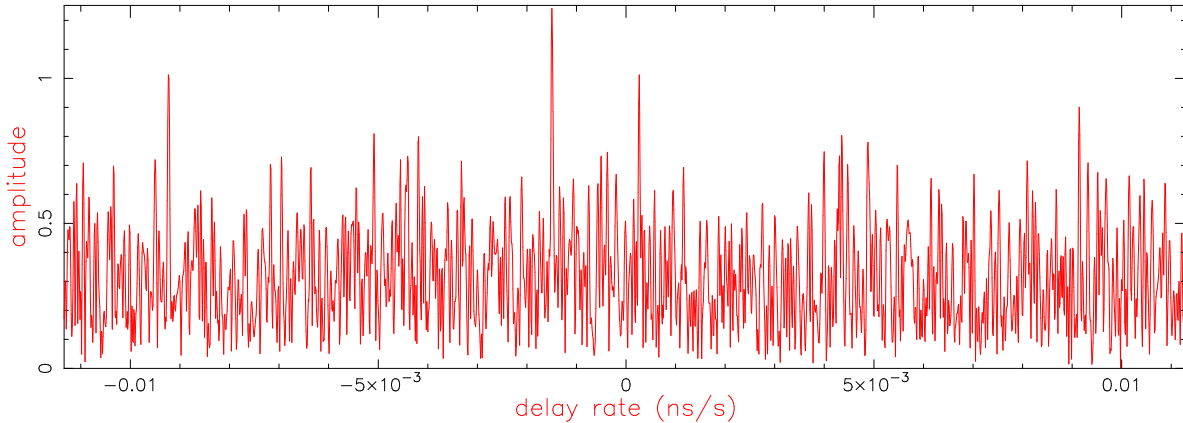
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.50352630684E+03	Apriori delay (usec)	1.50342426783E+03	Resid mbdelay (usec)	-5.59259E-06	+/- 5.6E-03
Sband delay (usec)	1.50352630916E+03	Apriori clock (usec)	6.5059795E+00	Resid sbdelay (usec)	1.02041E-01	+/- 5.6E-03
Phase delay (usec)	1.50342427056E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.72974E-06	+/- 4.5E-07
Delay rate (us/s)	-1.99186256605E-01	Apriori rate (us/s)	-1.99179747156E-01	Resid rate (us/s)	-6.50945E-06	+/- 2.6E-09
Total phase (deg)	-76.4	Apriori accel (us/s/s)	-1.40416343967E-05	Resid phase (deg)	-231.4	+/- 14.0

ph/seg (deg)	RMS 95.4	Theor. 119.1	Amplitude Search (2048X8)	1.309 +/- 0.160	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	89.8	207.9	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	7.0	Inc. seg. avg.	0.589	0.589	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.299	1.299	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

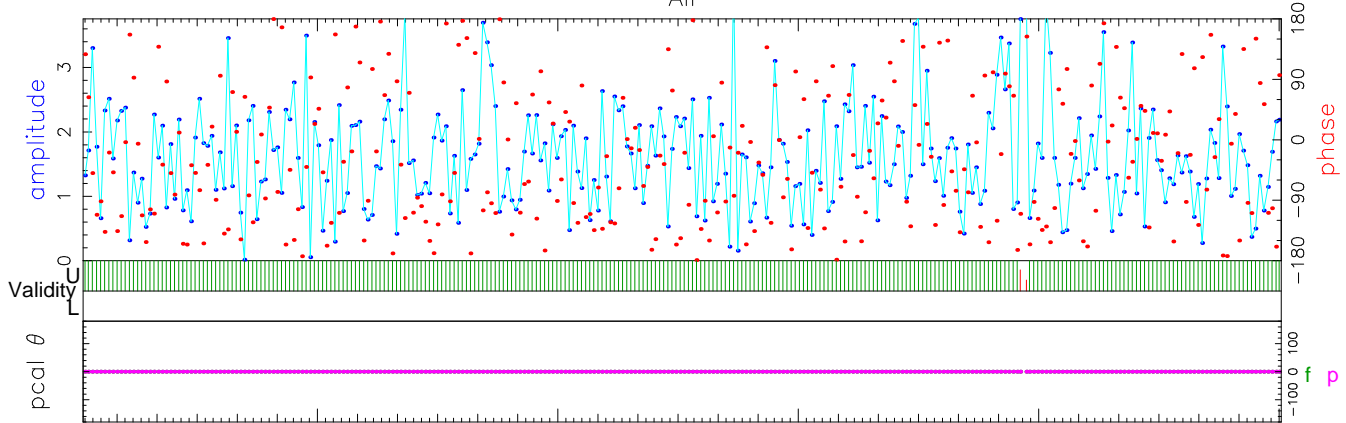
f: az 72.2 el 72.4 pa -96.7 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 1370.288 -1459.460 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fo.W.87.1T5GR2

Fringe quality 8



SNR 9.0
Int time 296.266
Amp 1.252
Phase -148.2
PFD 6.0e-12
Delays (us)
SBD 0.611068
MBD -0.000007
Fringe rate (Hz)
-0.128695
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-89.4
0.4
1566.3
U/L 581/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UR

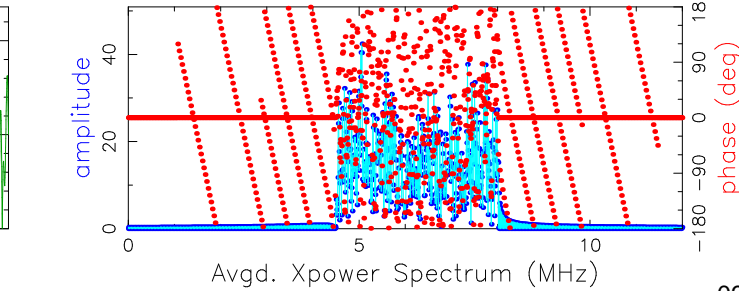
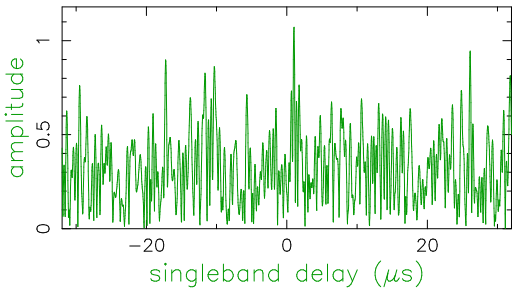
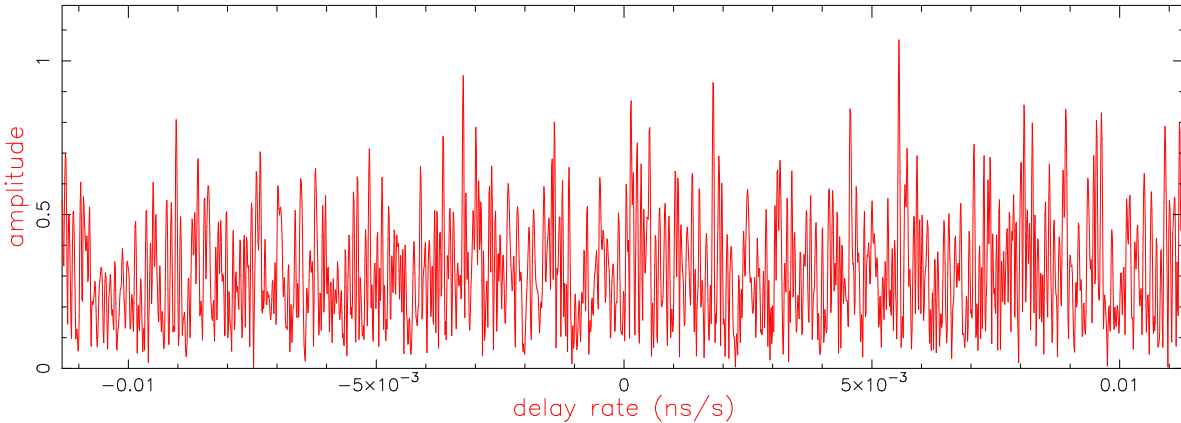
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.15380170666E+02	Apriori delay (usec)	3.14769104812E+02	Resid mbdelay (usec)	-7.24423E-06	+/- 5.1E-03
Sband delay (usec)	3.15380172812E+02	Apriori clock (usec)	4.7299786E+00	Resid sbdelay (usec)	6.11068E-01	+/- 5.1E-03
Phase delay (usec)	3.14769101930E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.88279E-06	+/- 4.1E-07
Delay rate (us/s)	-5.67873973017E-02	Apriori rate (us/s)	-5.67859032831E-02	Resid rate (us/s)	-1.49402E-06	+/- 2.4E-09
Total phase (deg)	-260.3	Apriori accel (us/s/s)	-5.09175705166E-06	Resid phase (deg)	-148.2	+/- 12.8

ph/seg (deg)	RMS 93.9	Theor. 109.1	Amplitude 1.252 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.2	190.4	Search (2048X8) 1.235	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. seg. avg. 0.578	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.243	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

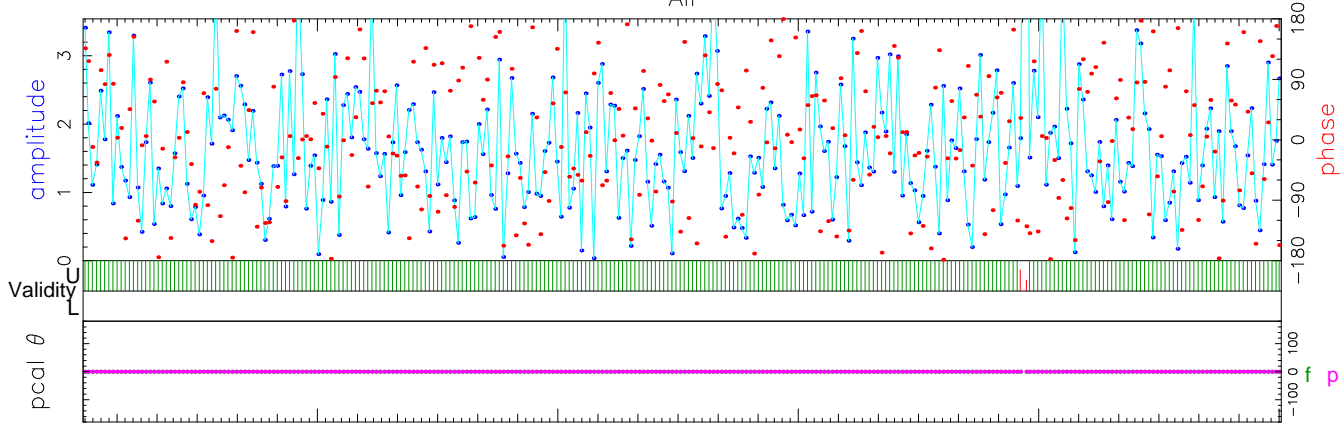
f: az 72.2 el 72.4 pa -96.7 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 389.897 -670.605 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fp.W.104.1T5GR2

Fringe quality 8



SNR 7.7
Int time 296.266
Amp 1.180
Phase -322.0
PFD 2.2e-07
Delays (us)
SBD 1.000000
MBD 0.000005
Fringe rate (Hz)
0.476990
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



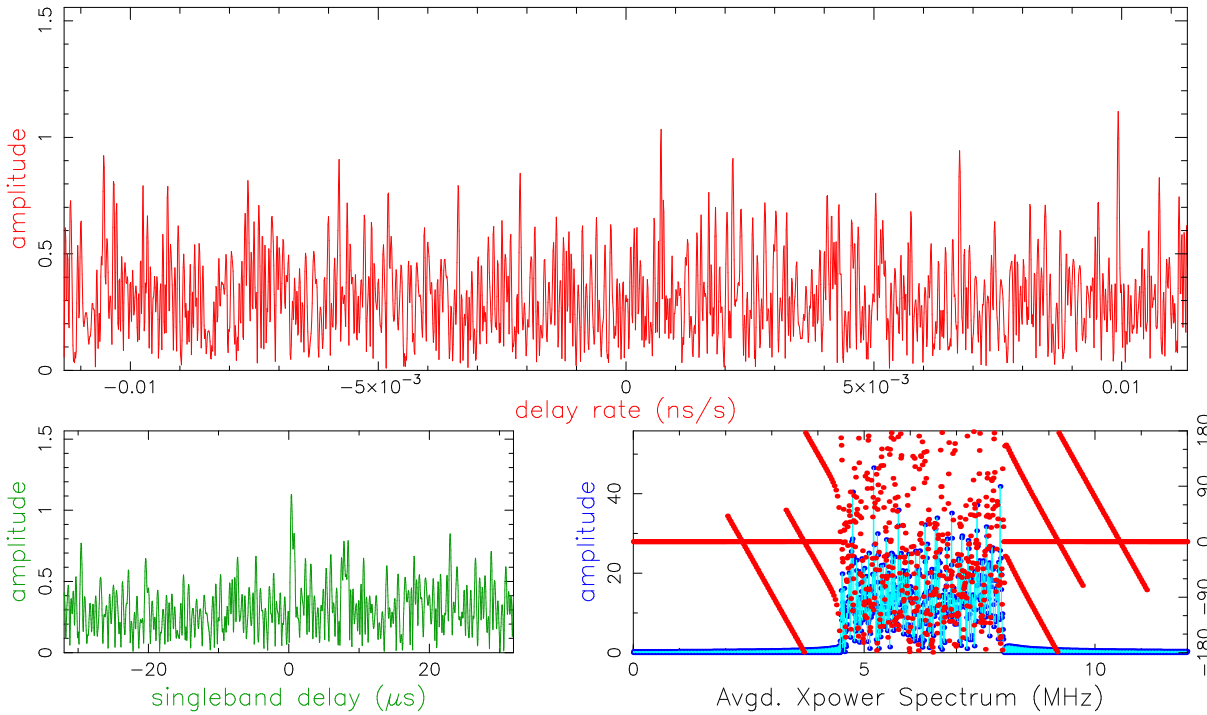
86227.00
38.0
0.3
1585.6
U/L 581/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UR

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)	3.15769109579E+02	Apriori delay (usec)	3.14769104812E+02	Resid mbdelay (usec)	4.76649E-06	+/-	6.0E-03
Sband delay (usec)	3.15769104812E+02	Apriori clock (usec)	4.7299786E+00	Resid sbdelay (usec)	1.00000E+00	+/-	6.0E-03
Phase delay (usec)	3.14769106038E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.22510E-06	+/-	4.8E-07
Delay rate (us/s)	-5.67803659039E-02	Apriori rate (us/s)	-5.67859032831E-02	Resid rate (us/s)	5.53738E-06	+/-	2.8E-09
Total phase (deg)	-74.1	Apriori accel (us/s/s)	-5.09175705166E-06	Resid phase (deg)	-322.0	+/-	14.9

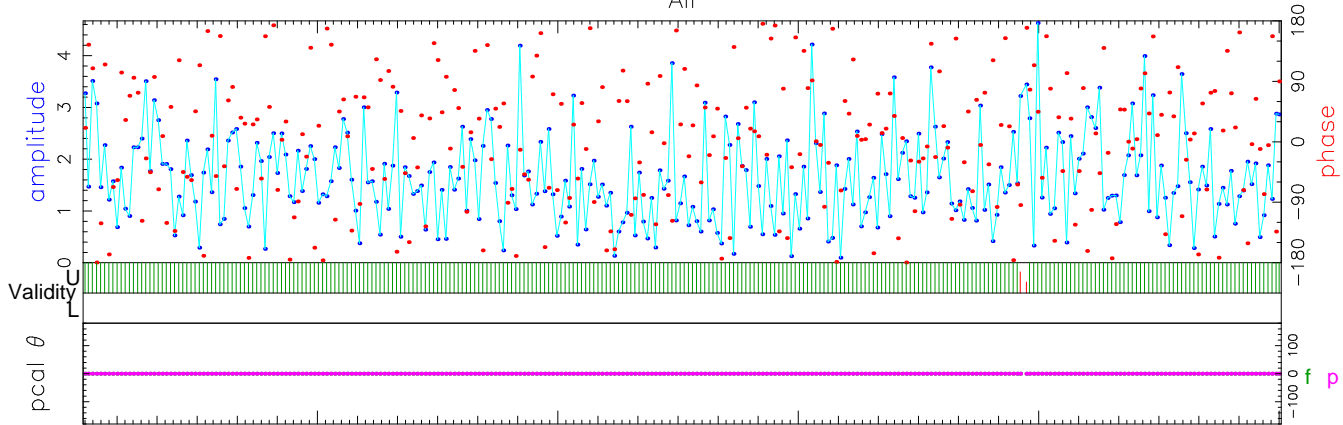
ph/seg (deg)	RMS 96.1	Theor. 127.0	Amplitude Search (2048X8)	1.180 +/- 0.153	1.064	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	100.0	221.7	Interp.	0.000	1.064	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.520	1.064	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.0	Inc. frq. avg.	1.170	1.064	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.0
Int time 296.266
Amp 1.558
Phase -5.9
PFD 1.8e-08
Delays (us)
SBD 0.368616
MBD 0.000005
Fringe rate (Hz)
0.854469
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
18.9
0.5
1554.7
U/L 581/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UL

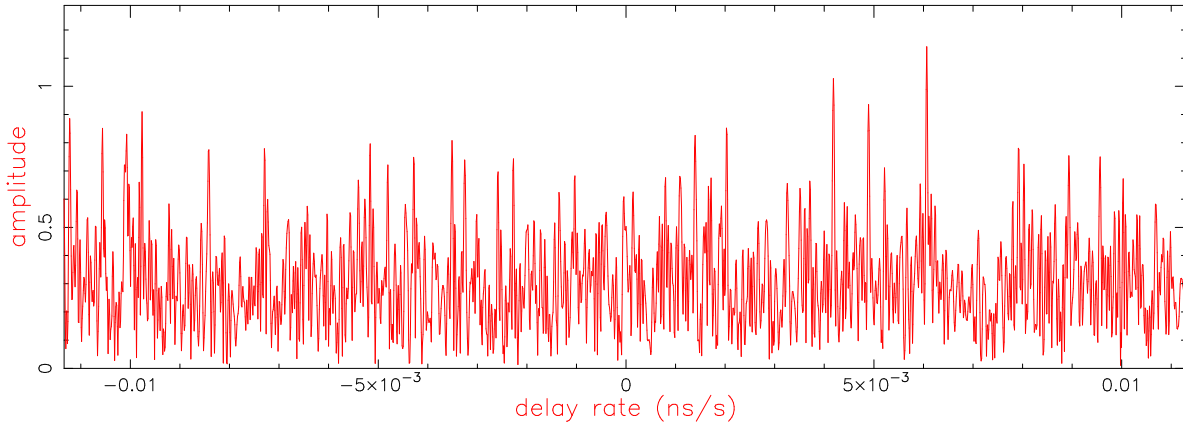
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.15137718519E+02	Apriori delay (usec)	3.14769104812E+02	Resid mbdelay (usec)	5.26610E-06	+/-	5.7E-03
Sband delay (usec)	3.15137720812E+02	Apriori clock (usec)	4.7299786E+00	Resid sbdelay (usec)	3.68616E-01	+/-	5.7E-03
Phase delay (usec)	3.14769105423E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	6.10325E-07	+/-	4.6E-07
Delay rate (us/s)	-5.67759837450E-02	Apriori rate (us/s)	-5.67859032831E-02	Resid rate (us/s)	9.91954E-06	+/-	2.7E-09
Total phase (deg)	-118.0	Apriori accel (us/s/s)	-5.09175705166E-06	Resid phase (deg)	-5.9	+/-	14.3

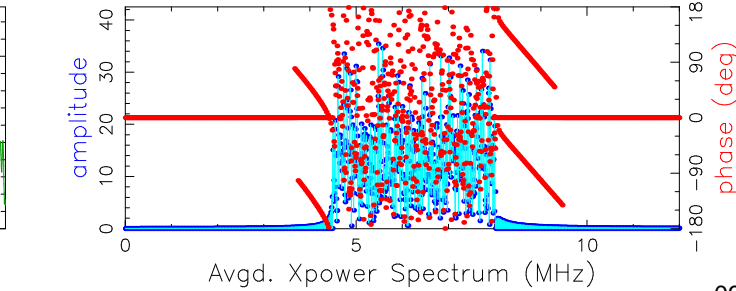
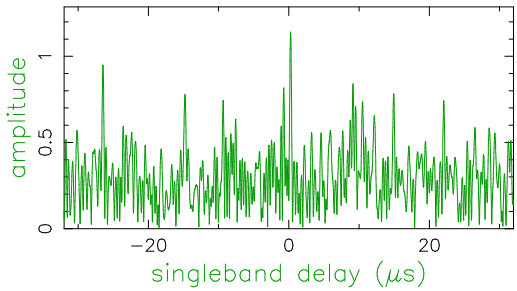
ph/seg (deg)	RMS 93.3	Theor. 122.0	Amplitude Search (2048X8)	1.558 +/- 0.194	1.101	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.9	213.0	Interp.	0.000	1.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.700	1.101	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.545	1.101	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
f: az 72.2 el 72.4 pa -96.7		p: az 82.7 el 69.8 pa -83.8		u,v (fr/asec) 389.897 -670.605		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0013/fp..1T5GR2		Output file: /Exps/c211d/v1/LINES1/1234/No0013/fp.W.126.1T5GR2		ion window (TEC) 0.00 0.00	

simultaneous interpolator

Fringe quality 8

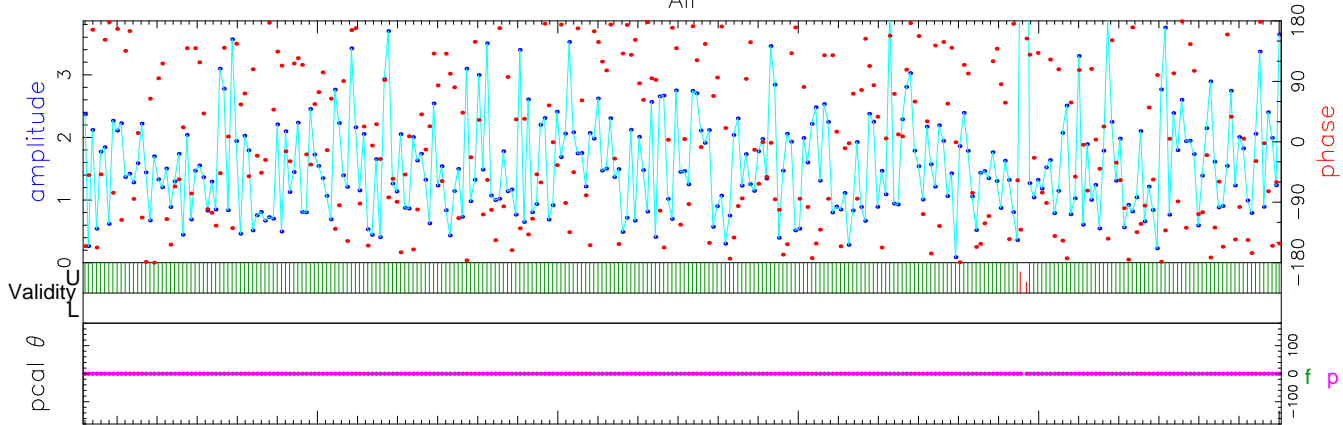


SNR 8.2
Int time 296.266
Amp 1.287
Phase -46.5
PFD 3.4e-09
Delays (us)
SBD 0.249060
MBD 0.000004
Fringe rate (Hz)
0.522524
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-166.2
0.4
1549.0
U/L 581/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UL

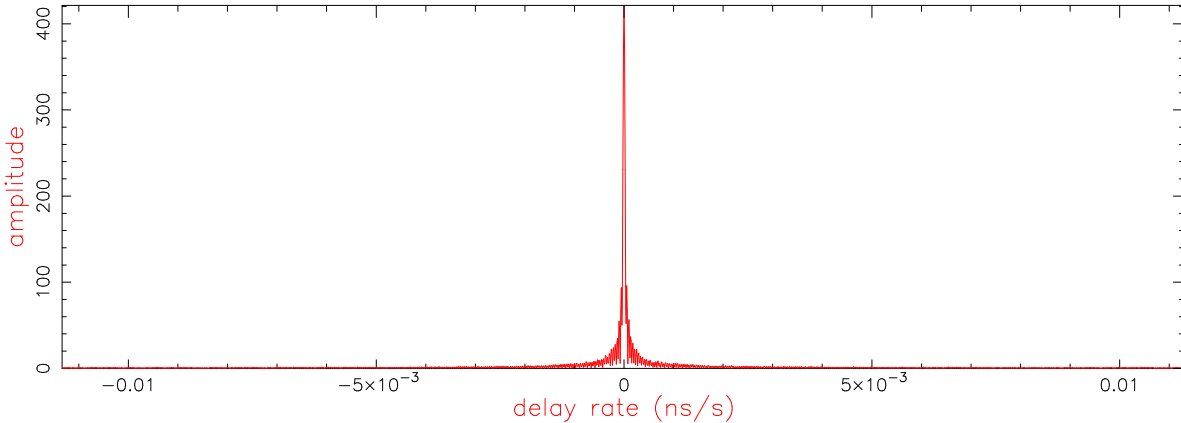
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.15018161087E+02	Apriori delay (usec)	3.14769104812E+02	Resid mbdelay (usec)	4.35339E-06	+/-	5.6E-03
Sband delay (usec)	3.15018164812E+02	Apriori clock (usec)	4.7299786E+00	Resid sbdelay (usec)	2.49060E-01	+/-	5.6E-03
Phase delay (usec)	3.14769099453E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.35933E-06	+/-	4.5E-07
Delay rate (us/s)	-5.67798372930E-02	Apriori rate (us/s)	-5.67859032831E-02	Resid rate (us/s)	6.06599E-06	+/-	2.6E-09
Total phase (deg)	-158.6	Apriori accel (us/s/s)	-5.09175705166E-06	Resid phase (deg)	-46.5	+/-	13.9

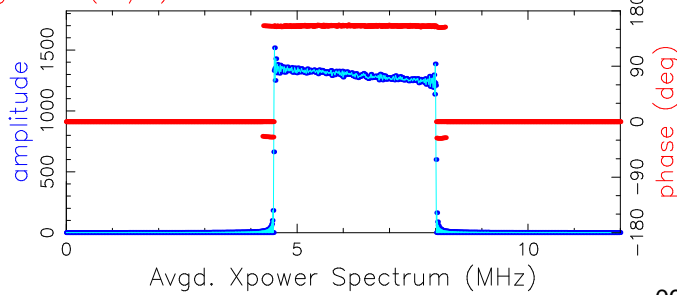
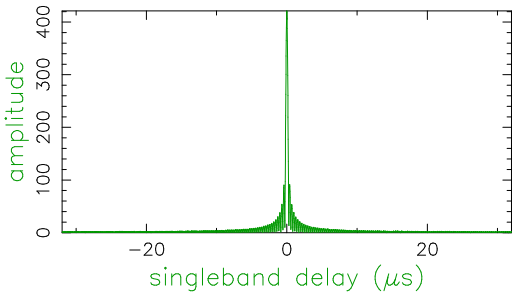
ph/seg (deg)	RMS 96.1	Theor. 118.9	Amplitude Search (2048X8)	1.287 +/- 0.157	1.131	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.3	207.5	Interp.	0.000	0.560	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.560	1.278	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.278		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 72.2 el 72.4 pa -96.7 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 389.897 -670.605 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/fp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/fp.W.92.1T5GR2

Fringe quality 5

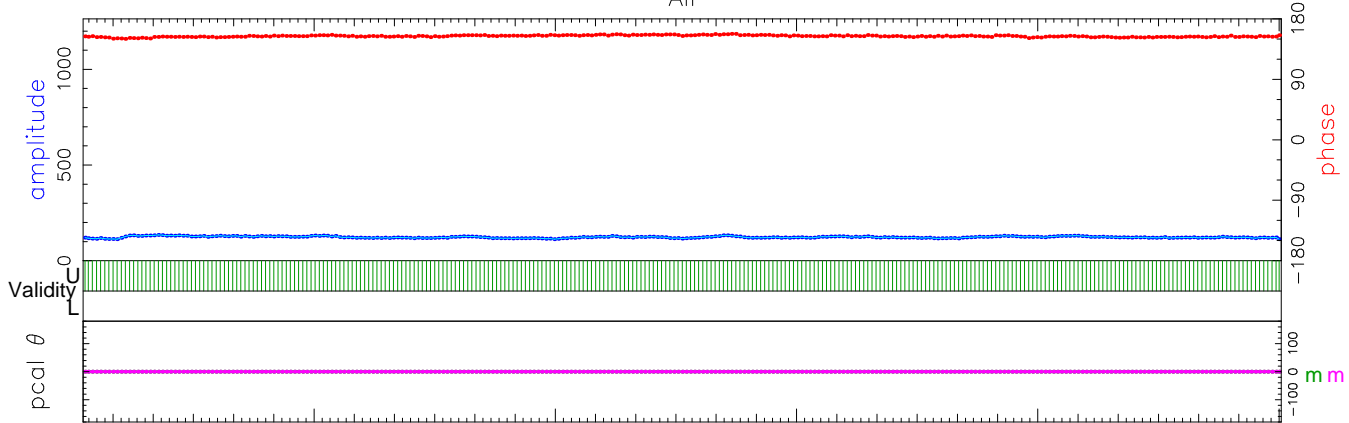


SNR 3040.2
Int time 296.984
Amp 421.386
Phase 172.7
PFD 0.0e+00
Delays (us)
SBD -0.000596
MBD -0.000004
Fringe rate (Hz)
-0.000073
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



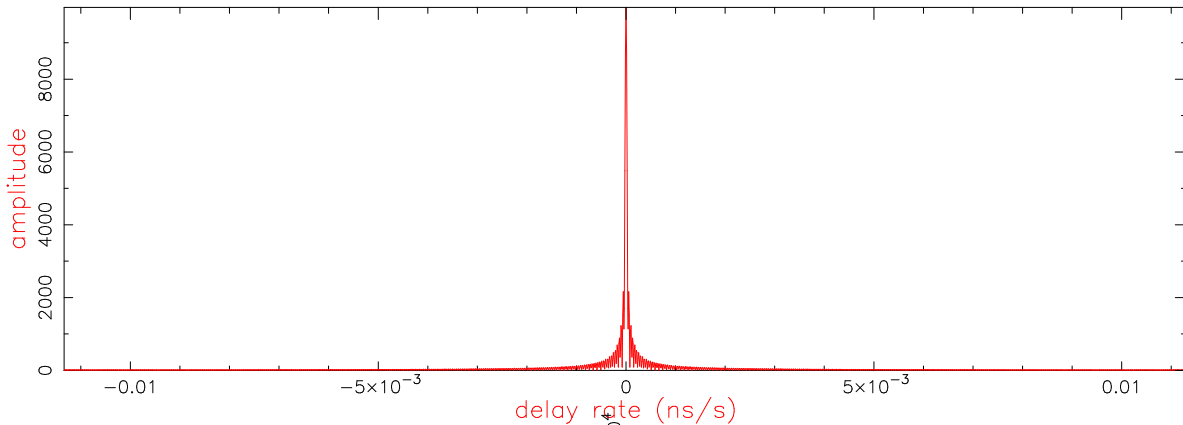
86227.00
154.2
123.5
1537.0
U/L 581/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UR
m
m W03UL

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

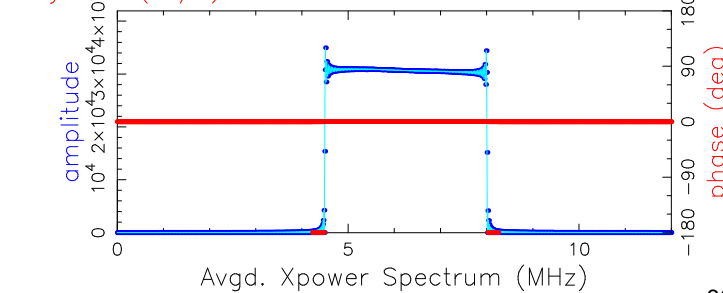
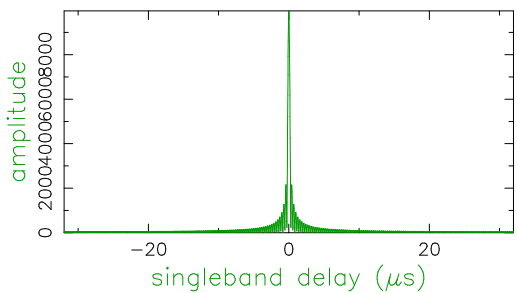
Group delay (usec)(sbd)	-5.95813724240E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.35165E-06	+/- 1.5E-05
Sband delay (usec)	-5.96000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.96000E-04	+/- 1.5E-05
Phase delay (usec)	4.97305985825E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.97306E-06	+/- 1.2E-09
Delay rate (us/s)	-8.47434913023E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.47435E-10	+/- 7.1E-12
Total phase (deg)	172.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	172.7	+/- 0.0

ph/seg (deg)	RMS 1.4	Theor. 0.3	Amplitude 421.386 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.6	Search (2048X8) 421.055	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. 123.485	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 421.383	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
m: az 60.4 el 25.6 pa -83.1			m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 0.000 0.000		

Fringe quality 5

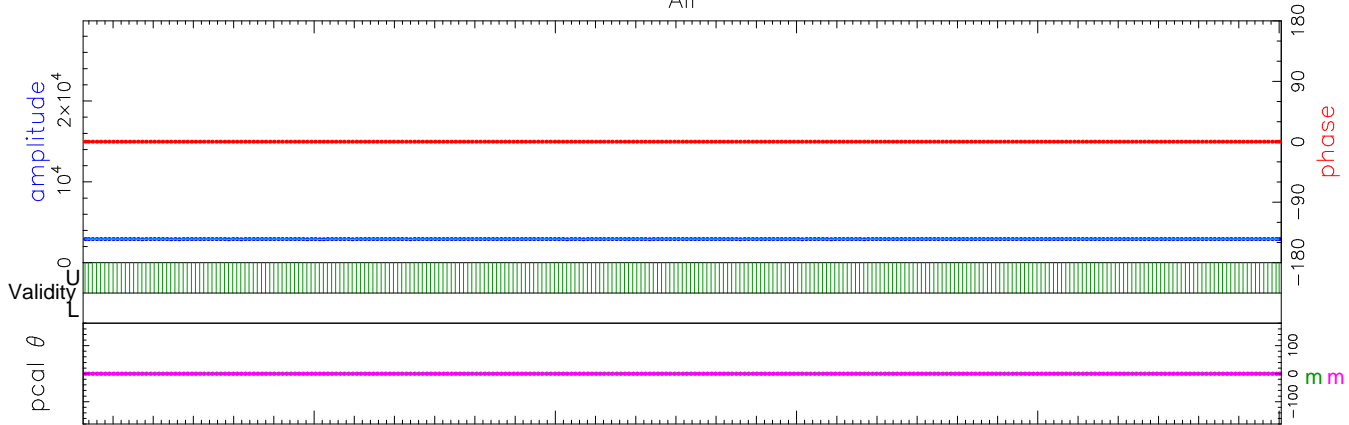


SNR 71944.8
Int time 296.984
Amp 9971.926
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



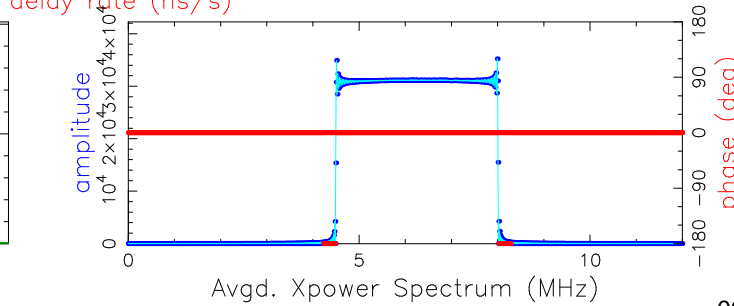
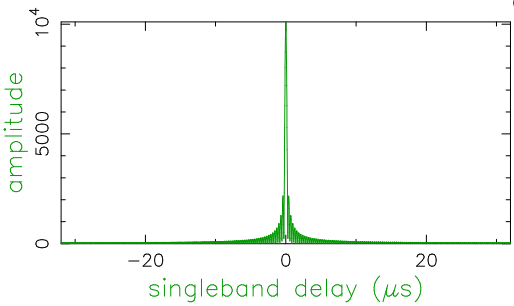
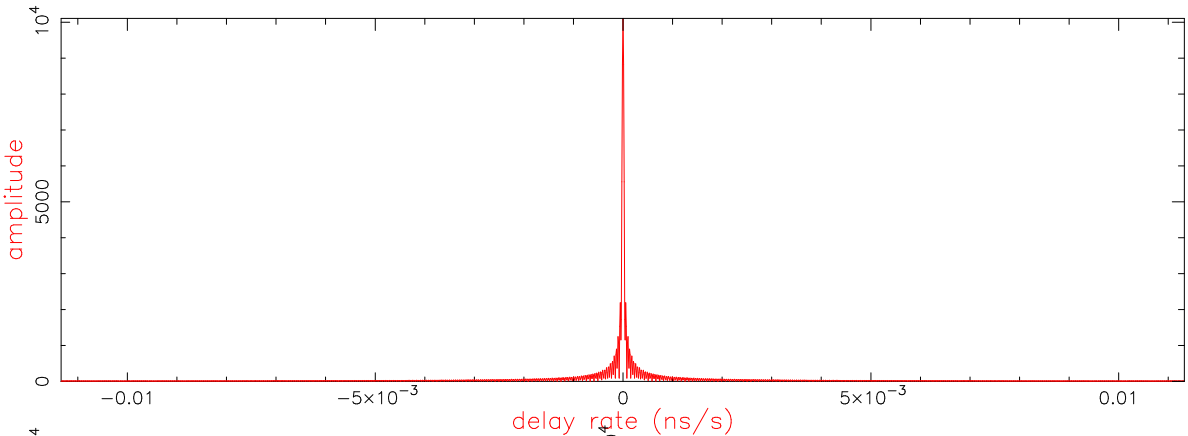
86227.00
0.2
2921.5
1537.0
U/L 581/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UL
m W03UL

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)	4.35327681585E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.24402E-06	+/- 6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.4E-07
Phase delay (usec)	7.82091639912E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82092E-09	+/- 5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 3.0E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

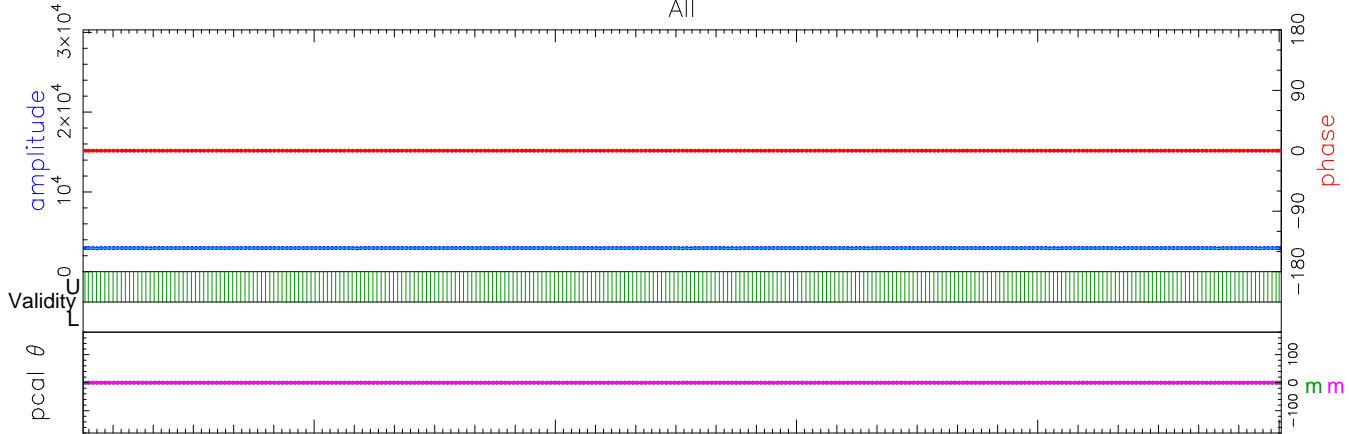
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9971.926 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	9971.926	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2921.463	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	9971.926	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

m: az 60.4 el 25.6 pa -83.1 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mm.W.83.1T5GR2



Fringe quality 5
SNR 72904.4
Int time 296.984
Amp 10104.944
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

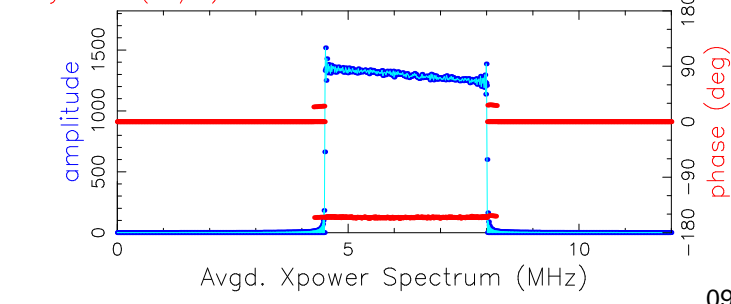
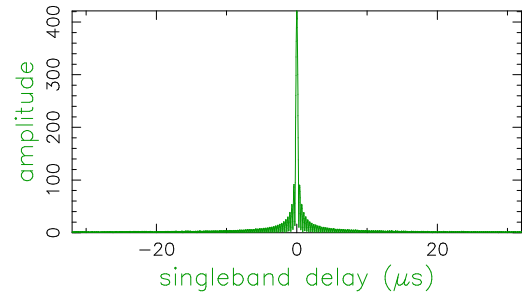
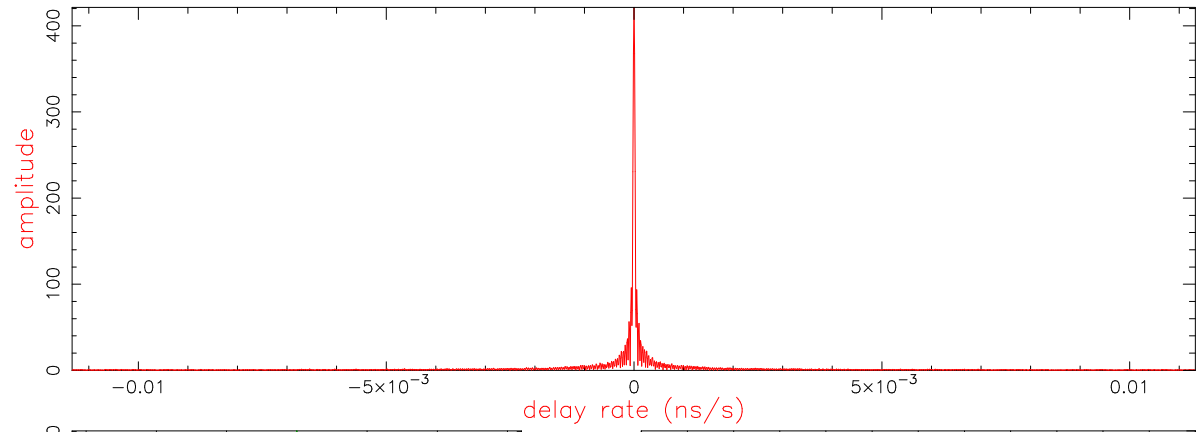
Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00	0.2	2960.4	1537.0	U/L 581/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UR	m W03UR	86227.00	0.2	2960.4	1537.0	U/L 581/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UR	m W03UR

Group delay (usec)(sbd)	-4.77808575040E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.77809E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	5.15860198267E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.15860E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS 0.0 Theor. 0.0 Amplitude 10104.943 +/- 0.139 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10104.943 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2960.432 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
m: az 60.4 el 25.6 pa -83.1 m: az 60.4 el 25.6 pa -83.1 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mm..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mm.W.93.1T5GR2



Fringe quality 5

SNR 3040.2

Int time 296.984

Amp 421.386

Phase -172.8

PFD 0.0e+00

Delays (us)

SBD 0.000596

MBD -0.000005

Fringe rate (Hz)

0.000073

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211d

Exper # 16383

Yr:day 2021:117

Start 010002.56

Stop 010500.03

FRT 010230.00

Corr/FF/build

2021:228:034942

2021:228:051922

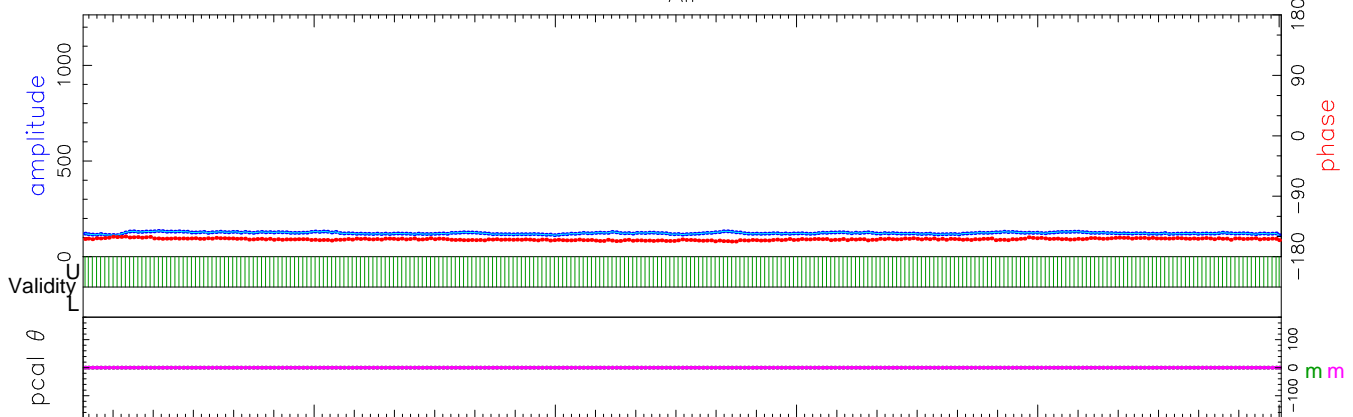
2021:057:122453

RA & Dec (J2000)

09h45m34.287498s

+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00

-153.9

123.5

1537.0

U/L 581/0

m 0

m 0

m:m 0:0

m:m 0:0

m 1000

m 1000

m W03UL

m W03UR

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC freqs

PC phase

Manl PC

PC amp

Chan ids

Chan ids

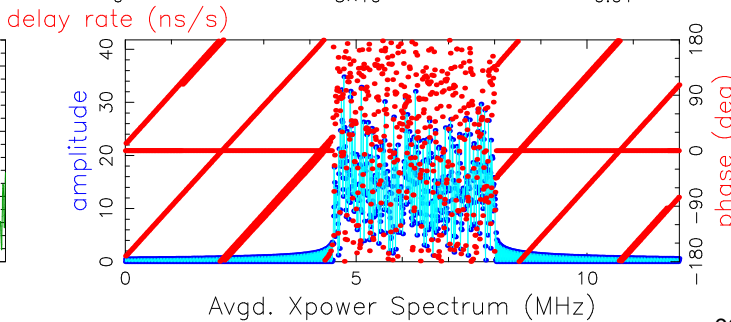
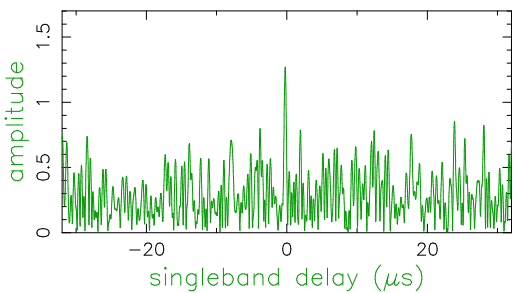
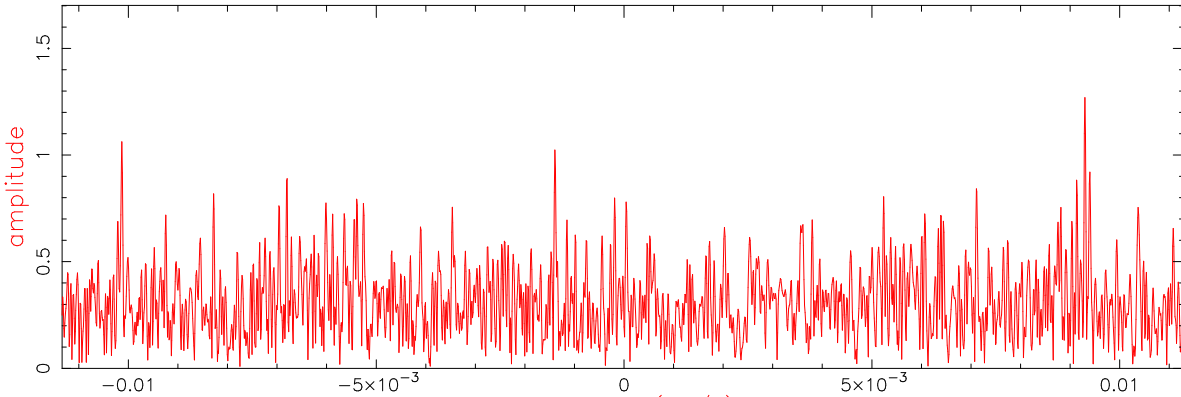
Group delay (usec)(sbd)	5.98308093753E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.75127E-06	+/- 1.5E-05
Sband delay (usec)	5.96000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.96000E-04	+/- 1.5E-05
Phase delay (usec)	-4.96323199501E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.96323E-06	+/- 1.2E-09
Delay rate (us/s)	8.47434913023E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	8.47435E-10	+/- 7.1E-12
Total phase (deg)	-172.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-172.8	+/- 0.0

ph/seg (deg)	1.4	Theor.	0.3	Amplitude	421.386 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.6	Search (2048X8)	421.055	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.	123.485	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	421.383	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

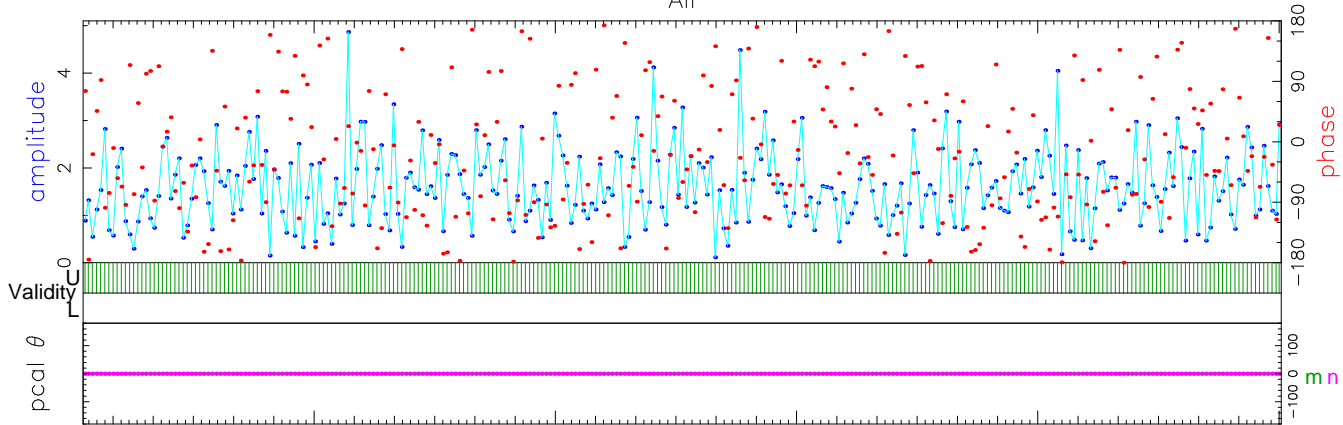
Fringe quality 8

SNR 9.2
Int time 296.984
Amp 1.701
Phase 331.3
PFD 9.8e-13
Delays (us)
SBD -0.230332
MBD 0.000005
Fringe rate (Hz)
0.799942
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-42.8
0.5
1525.9
U/L 581/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UR

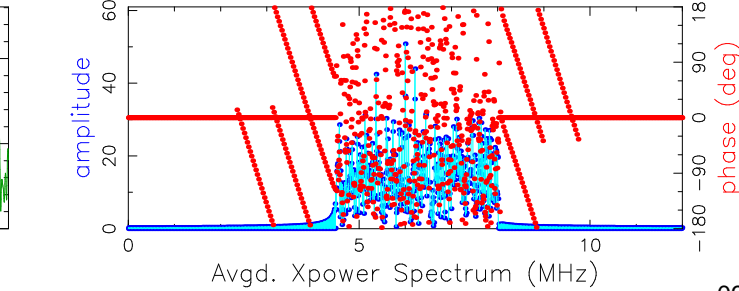
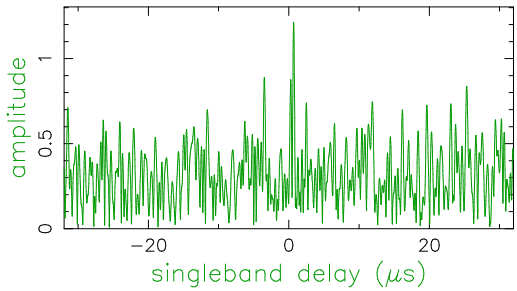
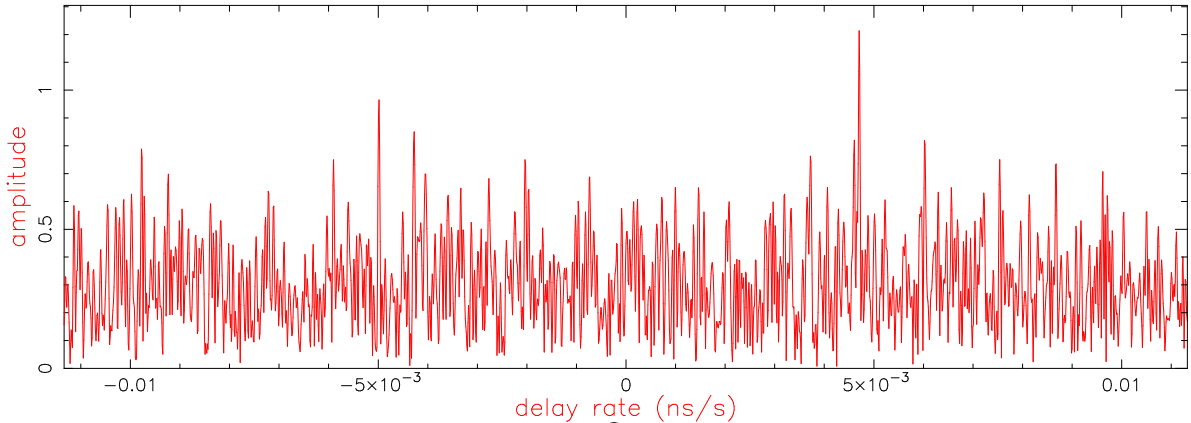
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.16084425565E+04	Apriori delay (usec)	-1.16082122278E+04	Resid mbdelay (usec)	5.17286E-06	+/- 5.0E-03
Sband delay (usec)	-1.16084425598E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-2.30332E-01	+/- 5.0E-03
Phase delay (usec)	-1.16082122292E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.37937E-06	+/- 4.0E-07
Delay rate (us/s)	1.01831151084E+00	Apriori rate (us/s)	1.01830222431E+00	Resid rate (us/s)	9.28654E-06	+/- 2.3E-09
Total phase (deg)	223.1	Apriori accel (us/s/s)	4.09428188374E-05	Resid phase (deg)	331.3	+/- 12.5

ph/seg (deg)	RMS 93.4	Theor. 106.7	Amplitude Search (2048X8)	1.701 +/- 0.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.4	186.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.788	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.691	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
					nlags: 1536 t_cohere infinite	

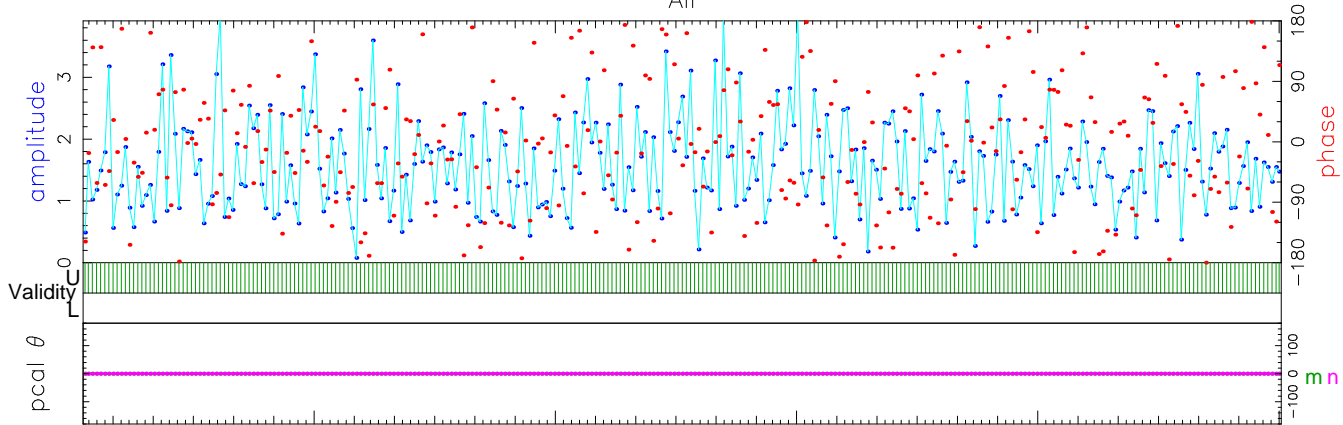
m: az 60.4 el 25.6 pa -83.1 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) -7026.868 -151.575 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mn.W.109.1T5GR2

Fringe quality 8



SNR 8.8
Int time 296.984
Amp 1.305
Phase -202.6
PFD 3.5e-11
Delays (us)
SBD 0.683999
MBD 0.000004
Fringe rate (Hz)
0.405370
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



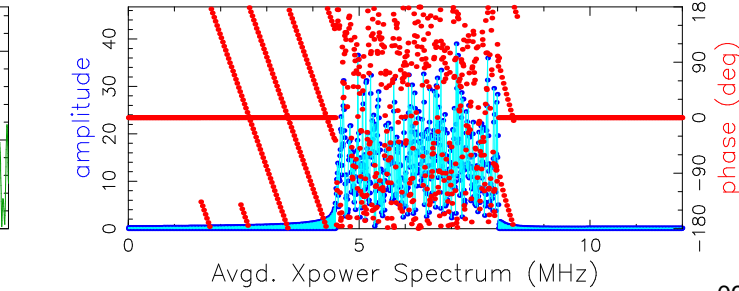
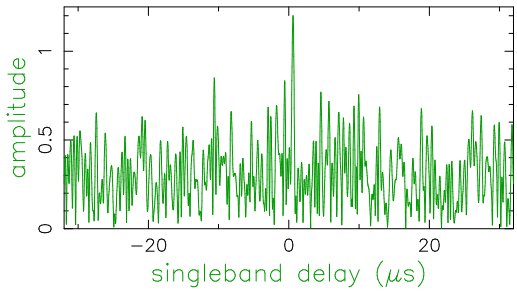
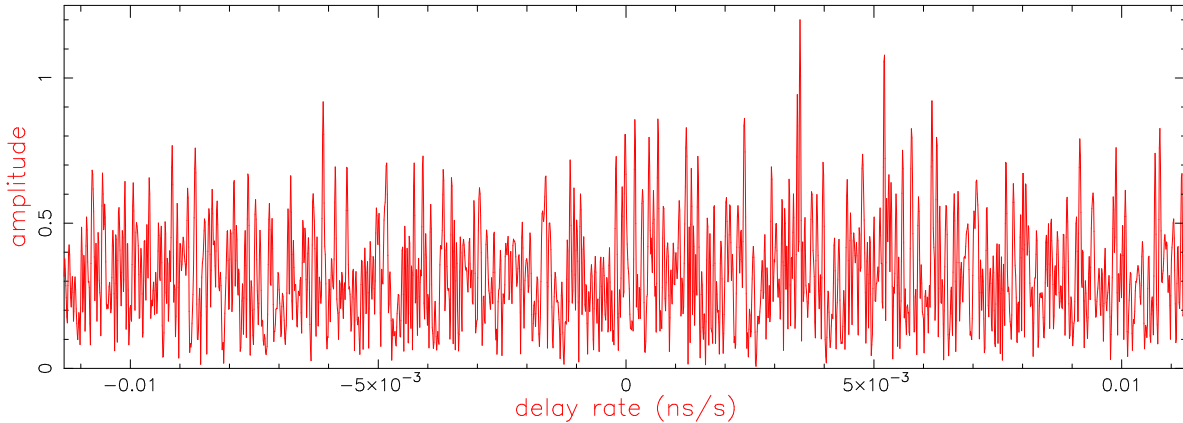
86227.00
-19.9
0.4
1569.8
U/L 581/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UR

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)	-1.16075282265E+04	Apriori delay (usec)	-1.16082122278E+04	Resid mbdelay (usec)	4.35024E-06	+/-	5.2E-03
Sband delay (usec)	-1.16075282291E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	6.83999E-01	+/-	5.2E-03
Phase delay (usec)	-1.16082122284E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.40481E-07	+/-	4.2E-07
Delay rate (us/s)	1.01830693025E+00	Apriori rate (us/s)	1.01830222431E+00	Resid rate (us/s)	4.70594E-06	+/-	2.5E-09
Total phase (deg)	-310.8	Apriori accel (us/s/s)	4.09428188374E-05	Resid phase (deg)	-202.6	+/-	13.1

ph/seg (deg)	RMS 91.0	Theor. 111.6	Amplitude Search (2048X8)	1.305 +/- 0.149	1.208	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.2	194.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.593	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.296	0.000	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
		m: az 60.4 el 25.6 pa -83.1		n: az 136.7 el 80.3 pa -37.3		Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
		u,v (fr/asec) -7026.868 -151.575		simultaneous interpolator			

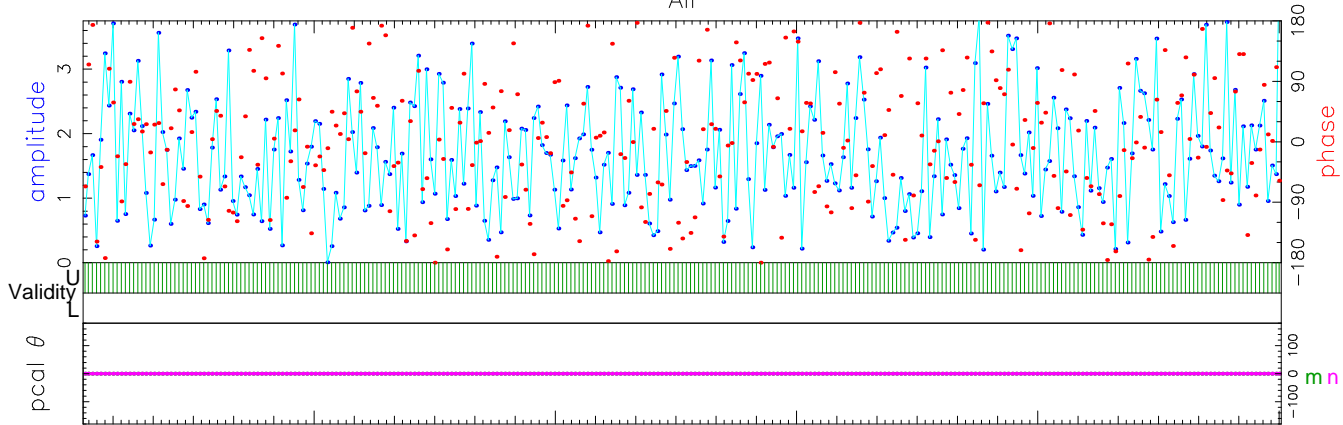
Fringe quality 8



SNR 8.7
Int time 296.984
Amp 1.250
Phase -334.5
PFD 7.8e-11
Delays (us)
SBD 0.597028
MBD 0.000004
Fringe rate (Hz)
0.302310
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



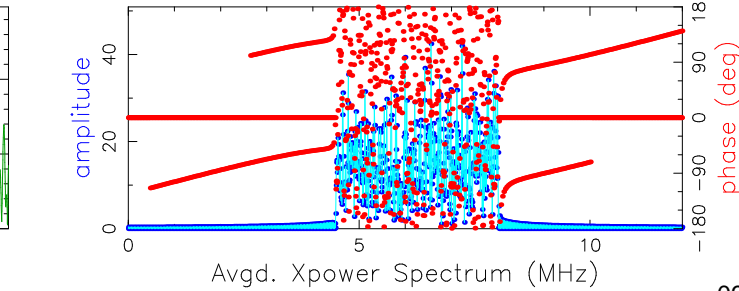
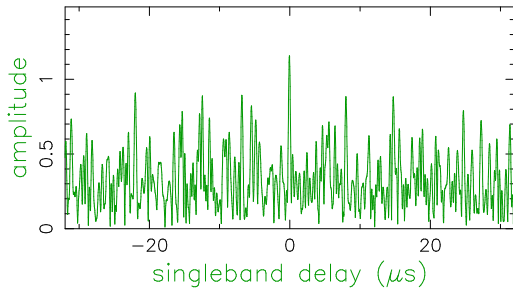
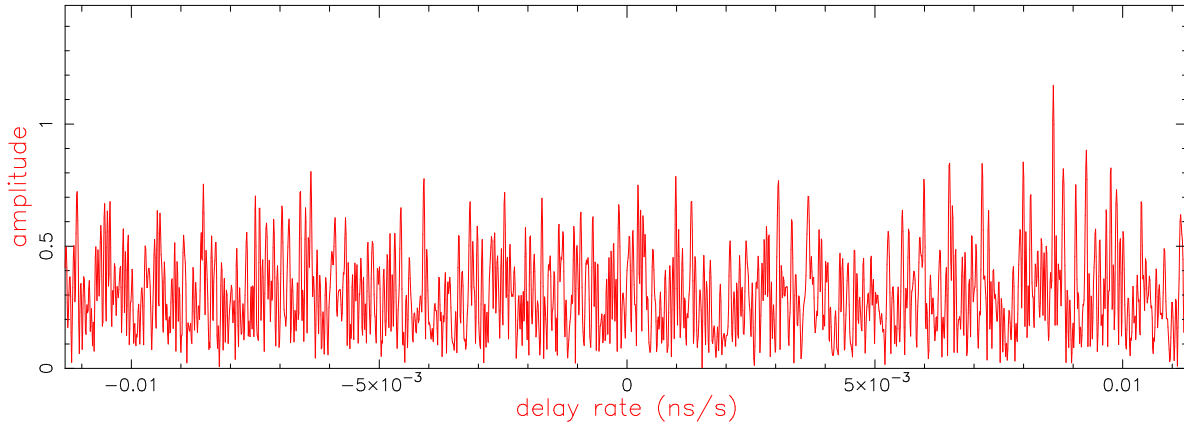
86227.00
4.4
0.4
1565.7
U/L 581/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UL

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)	-1.16076151946E+04	Apriori delay (usec)	-1.16082122278E+04	Resid mbdelay (usec)	4.36137E-06	+/-	5.3E-03
Sband delay (usec)	-1.16076151998E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	5.97028E-01	+/-	5.3E-03
Phase delay (usec)	-1.16082122276E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.42577E-07	+/-	4.3E-07
Delay rate (us/s)	1.01830573382E+00	Apriori rate (us/s)	1.01830222431E+00	Resid rate (us/s)	3.50952E-06	+/-	2.5E-09
Total phase (deg)	-82.7	Apriori accel (us/s/s)	4.09428188374E-05	Resid phase (deg)	-334.5	+/-	13.2

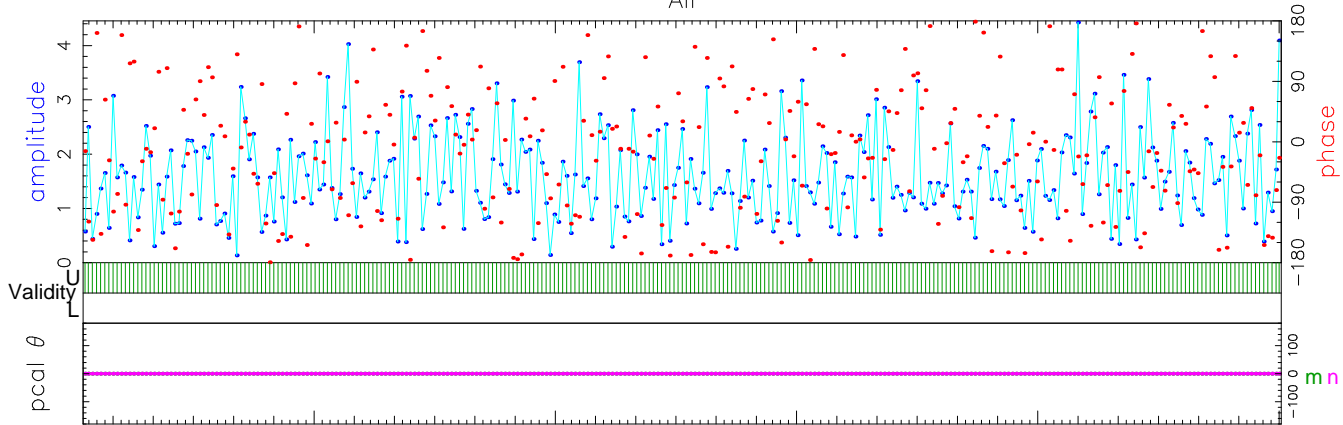
ph/seg (deg)	RMS 92.1	Theor. 112.8	Amplitude Search (2048X8)	1.250 +/- 0.144	1.192	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.6	196.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.591	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.241	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				m: az 60.4 el 25.6 pa -83.1	n: az 136.7 el 80.3 pa -37.3	u,v (fr/asec) -7026.868 -151.575	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.4
Int time 296.984
Amp 1.485
Phase 21.7
PFD 1.1e-09
Delays (us)
SBD -0.058532
MBD 0.000004
Fringe rate (Hz)
0.739881
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-11.5
0.4
1534.2
U/L 581/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UL

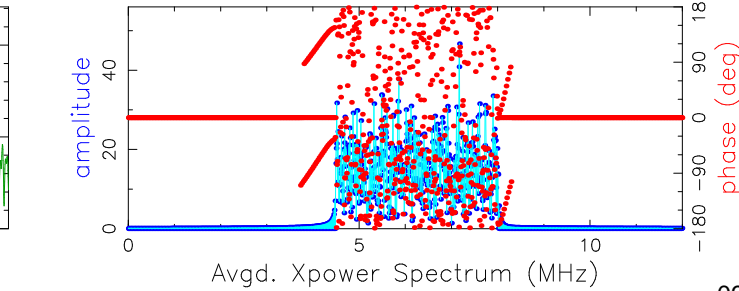
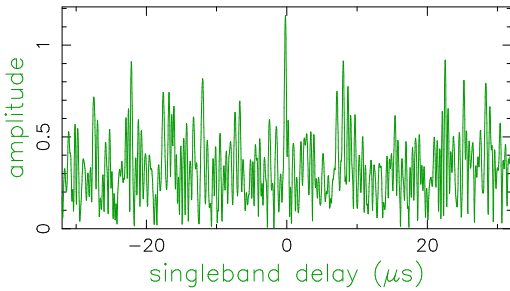
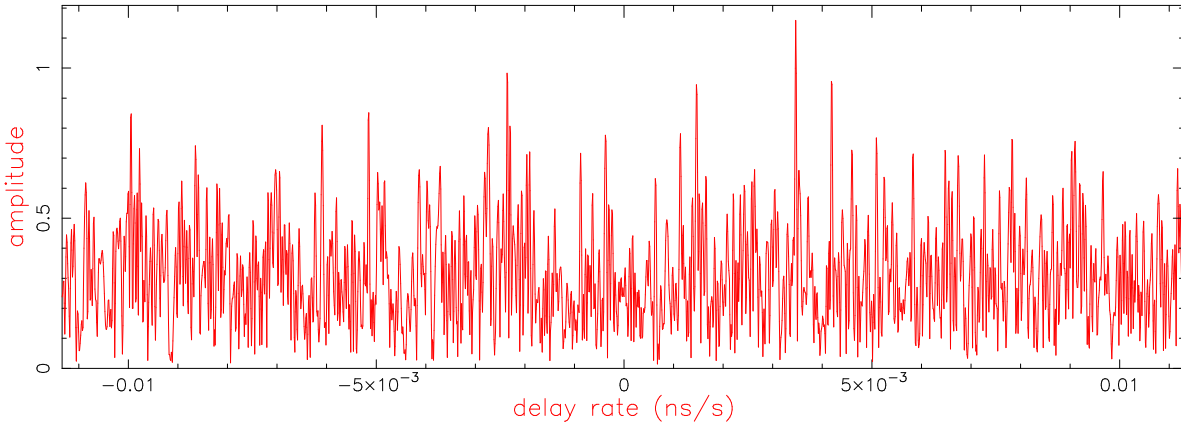
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.16082707550E+04	Apriori delay (usec)	-1.16082122278E+04	Resid mbdelay (usec)	4.35226E-06	+/-	5.5E-03
Sband delay (usec)	-1.16082707598E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-5.85320E-02	+/-	5.5E-03
Phase delay (usec)	-1.16082122281E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.72387E-07	+/-	4.4E-07
Delay rate (us/s)	1.01831081359E+00	Apriori rate (us/s)	1.01830222431E+00	Resid rate (us/s)	8.58928E-06	+/-	2.6E-09
Total phase (deg)	273.5	Apriori accel (us/s/s)	4.09428188374E-05	Resid phase (deg)	21.7	+/-	13.7

ph/seg (deg)	RMS 92.5	Theor. 116.9	Amplitude Search (2048X8)	1.485 +/- 0.178	1.148	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	78.7	204.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.664	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.474	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011	
				u,v (fr/asec) -7026.868 -151.575		nlags: 1536 t_cohere infinite		ion window (TEC)	0.00 0.00

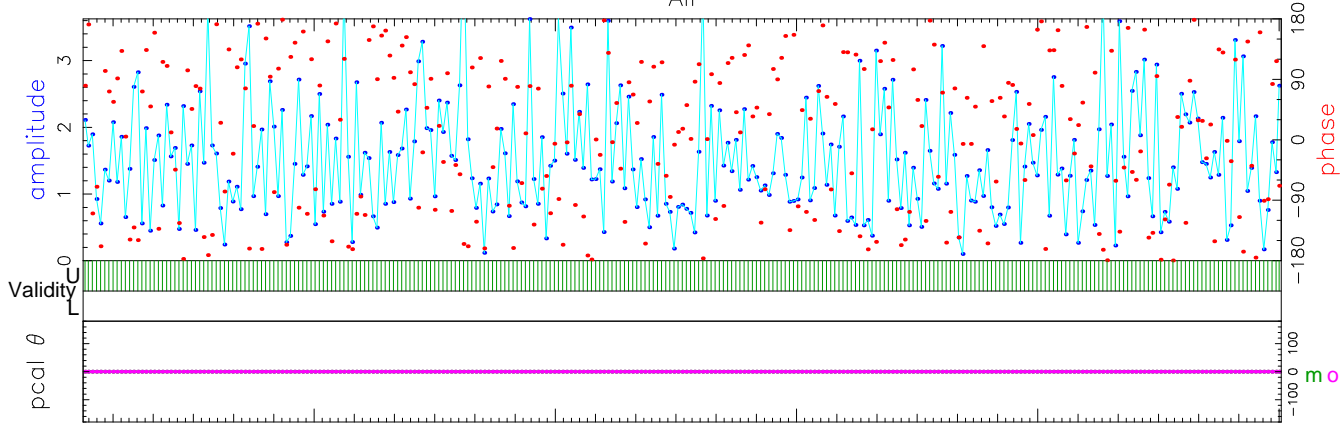
m: az 60.4 el 25.6 pa -83.1 n: az 136.7 el 80.3 pa -37.3 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mn.W.91.1T5GR2

Fringe quality 8



SNR 8.4
Int time 296.984
Amp 1.209
Phase 316.5
PFD 8.1e-10
Delays (us)
SBD -0.200876
MBD 0.000005
Fringe rate (Hz)
0.297885
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



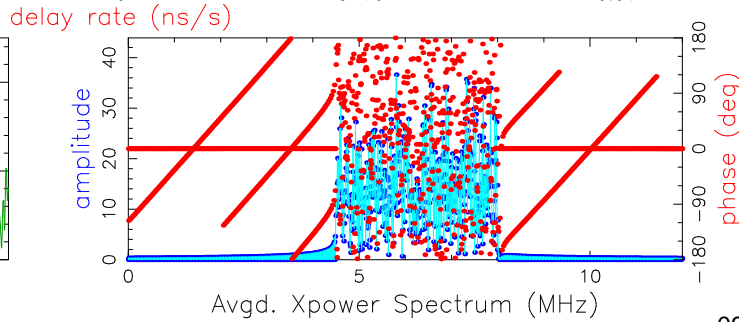
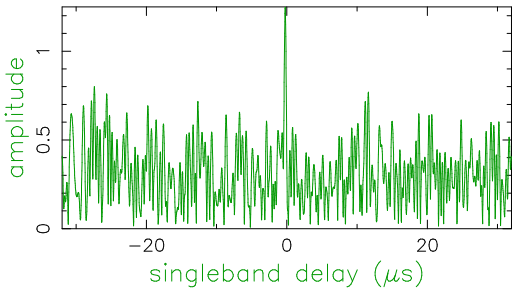
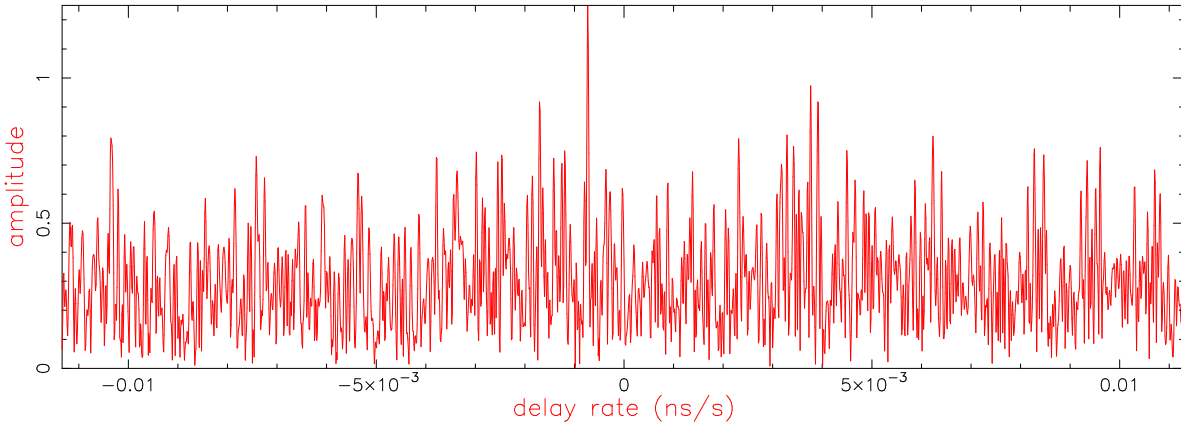
86227.00
145.0
0.4
1527.4
U/L 581/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UR

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)	-9.45990183582E+03	Apriori delay (usec)	-9.45970096359E+03	Resid mbdelay (usec)	4.51747E-06	+/-	5.5E-03
Sband delay (usec)	-9.45990183959E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-2.00876E-01	+/-	5.5E-03
Phase delay (usec)	-9.45970095891E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.67719E-06	+/-	4.4E-07
Delay rate (us/s)	5.69315178315E-01	Apriori rate (us/s)	5.69311720168E-01	Resid rate (us/s)	3.45815E-06	+/-	2.6E-09
Total phase (deg)	315.3	Apriori accel (us/s/s)	3.34194442819E-05	Resid phase (deg)	316.5	+/-	13.7

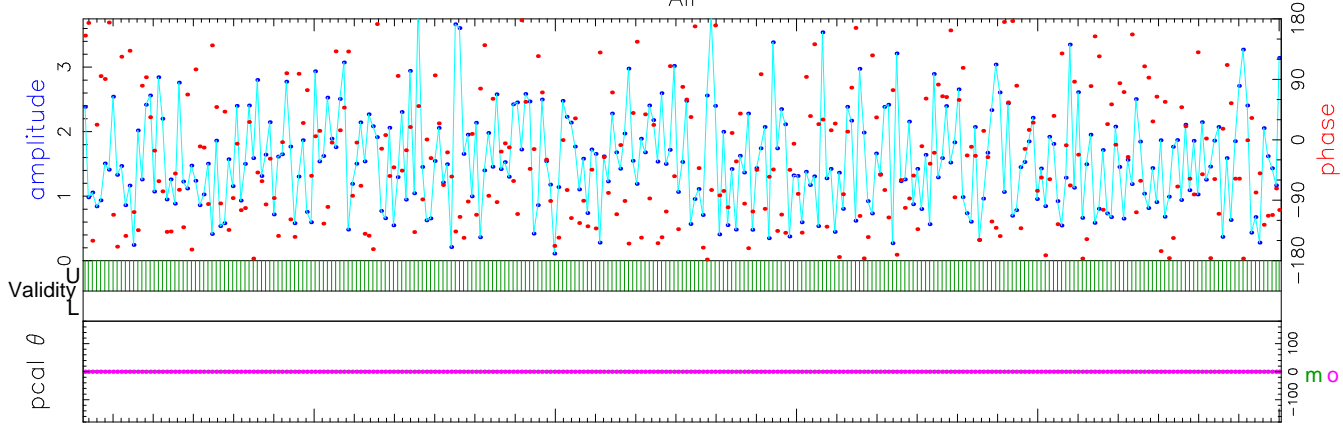
ph/seg (deg)	RMS 93.9	Theor. 116.5	Amplitude Search (2048X8)	1.209 +/- 0.144	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.8	203.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.515	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.9	Inc. frq. avg.	1.196	Data rate(Mb/s): 48	ion window (TEC)	dr window (ns/s) -0.011 0.011
m: az 60.4 el 25.6 pa -83.1		o: az 85.2 el 61.8 pa -74.4		u,v (fr/asec) -3917.613 -125.190		simultaneous interpolator	

Fringe quality 8



SNR 9.0
Int time 296.984
Amp 1.250
Phase 358.9
PFD 4.0e-12
Delays (us)
SBD -0.231963
MBD -0.000006
Fringe rate (Hz)
-0.063013
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-66.0
0.4
1525.9
U/L 581/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UR

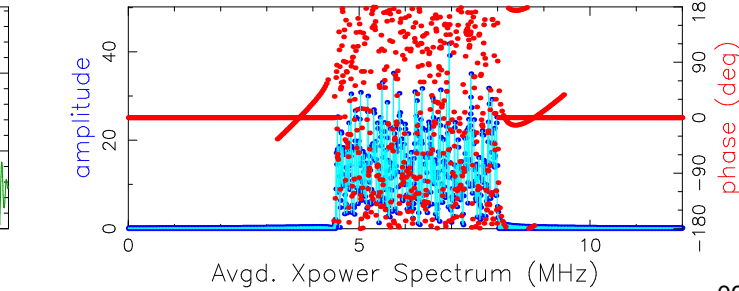
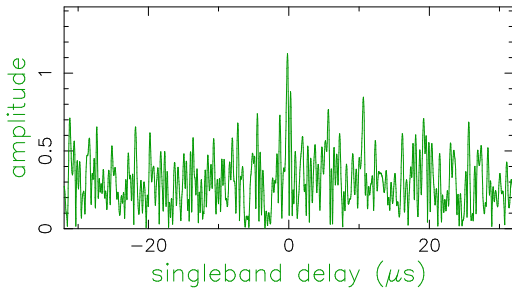
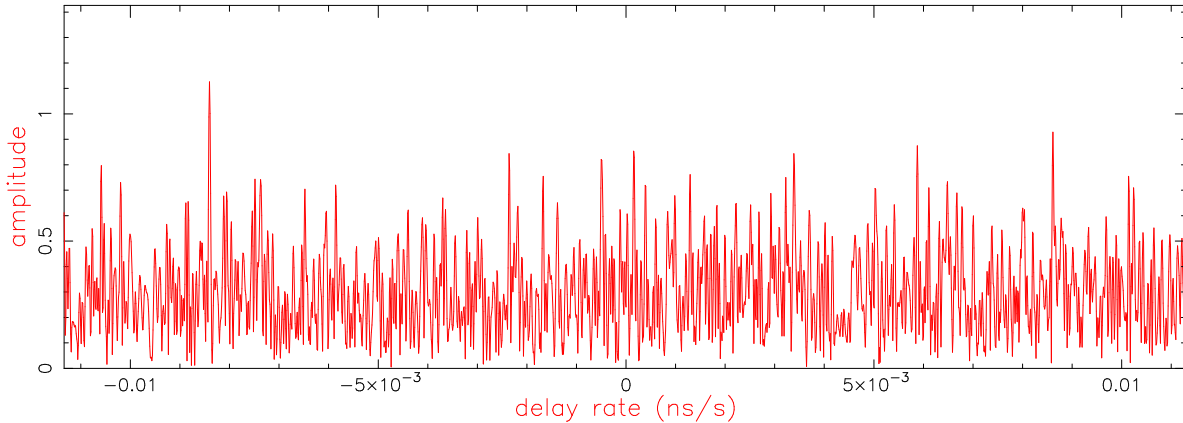
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.45993292691E+03	Apriori delay (usec)	-9.45970096359E+03	Resid mbdelay (usec)	-5.81247E-06	+/-	5.1E-03
Sband delay (usec)	-9.45993292625E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-2.31963E-01	+/-	5.1E-03
Phase delay (usec)	-9.45970096571E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.12790E-06	+/-	4.1E-07
Delay rate (us/s)	5.69310988646E-01	Apriori rate (us/s)	5.69311720168E-01	Resid rate (us/s)	-7.31522E-07	+/-	2.4E-09
Total phase (deg)	357.7	Apriori accel (us/s/s)	3.34194442819E-05	Resid phase (deg)	358.9	+/-	12.7

ph/seg (deg)	RMS 90.3	Theor. 108.6	Amplitude Search (2048X8)	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.8	189.5	Interp.	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	6.4	Inc. seg. avg.	0.561	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.242	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

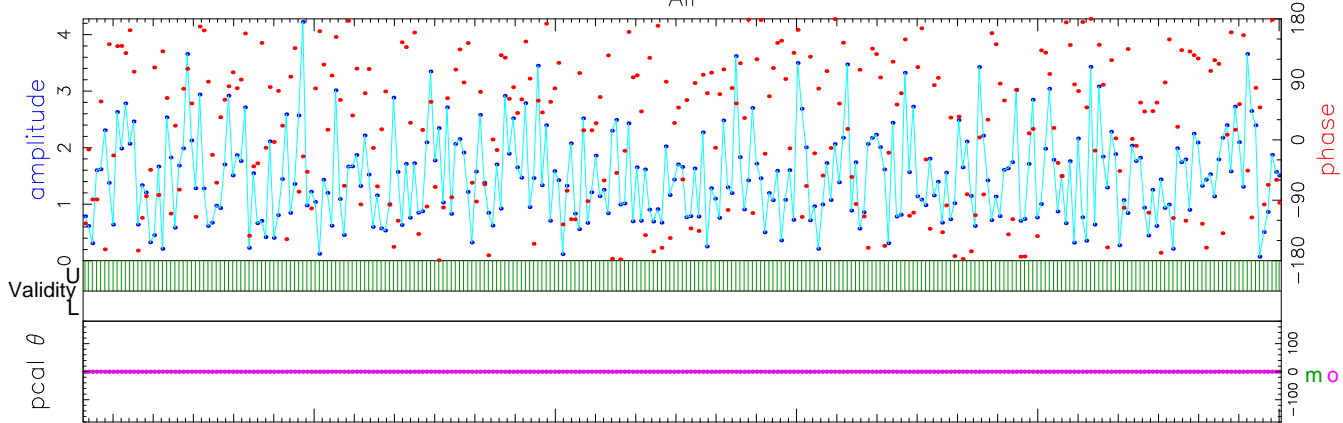
m: az 60.4 el 25.6 pa -83.1 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) -3917.613 -125.190 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mo.W.118.1T5GR2

Fringe quality 8



SNR 8.1
Int time 296.984
Amp 1.426
Phase 17.2
PFD 7.4e-09
Delays (us)
SBD -0.192460
MBD -0.000006
Fringe rate (Hz)
-0.722861
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
109.5
0.4
1527.7
U/L 581/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UL

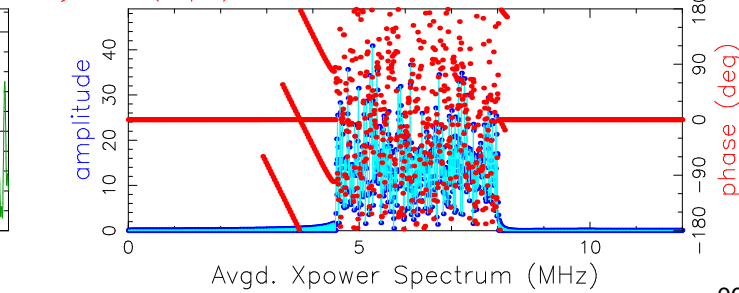
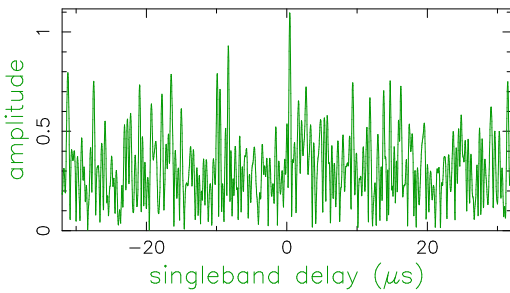
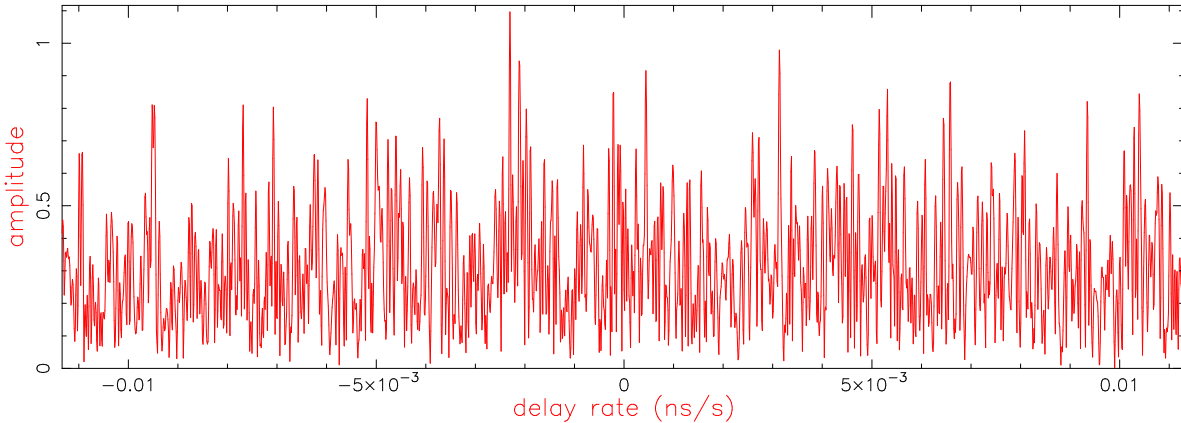
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.45989342640E+03	Apriori delay (usec)	-9.45970096359E+03	Resid mbdelay (usec)	-5.69706E-06	+/-	5.7E-03
Sband delay (usec)	-9.45989342359E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-1.92460E-01	+/-	5.7E-03
Phase delay (usec)	-9.45970096006E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.53075E-06	+/-	4.5E-07
Delay rate (us/s)	5.69303328466E-01	Apriori rate (us/s)	5.69311720168E-01	Resid rate (us/s)	-8.39170E-06	+/-	2.6E-09
Total phase (deg)	16.1	Apriori accel (us/s/s)	3.34194442819E-05	Resid phase (deg)	17.2	+/-	14.1

ph/seg (deg)	RMS 94.0	Theor. 120.3	Amplitude 1.426 +/- 0.176	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.1	210.0	Search (2048X8) 1.124	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. seg. avg. 0.593	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.415	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

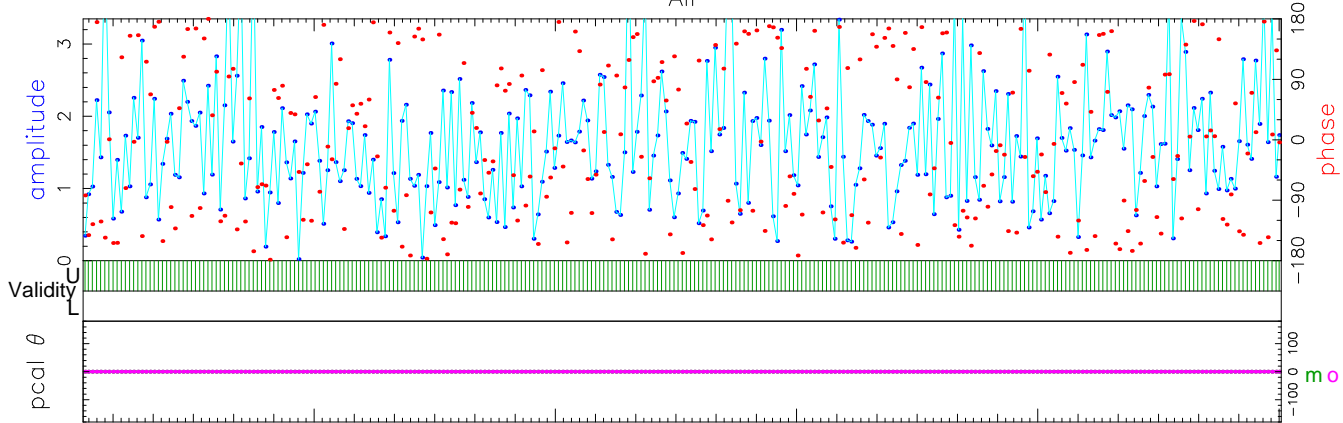
m: az 60.4 el 25.6 pa -83.1 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) -3917.613 -125.190 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mo.W.135.1T5GR2

Fringe quality 8



SNR 7.9
Int time 296.984
Amp 1.117
Phase -132.4
PFD 3.8e-08
Delays (us)
SBD 0.424507
MBD -0.000007
Fringe rate (Hz)
-0.197712
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051921
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-156.5
0.3
1557.4
U/L 581/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UL

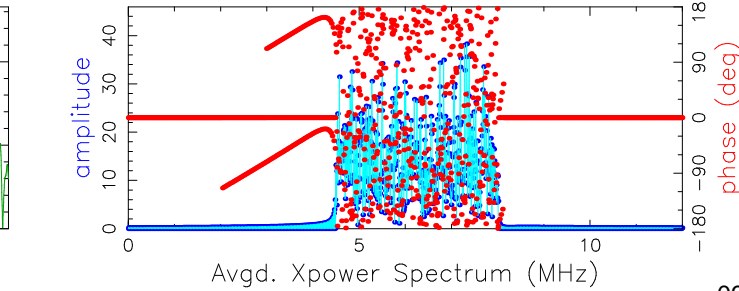
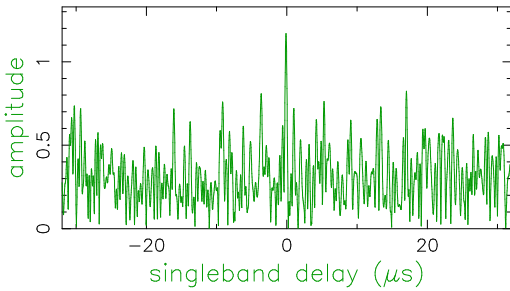
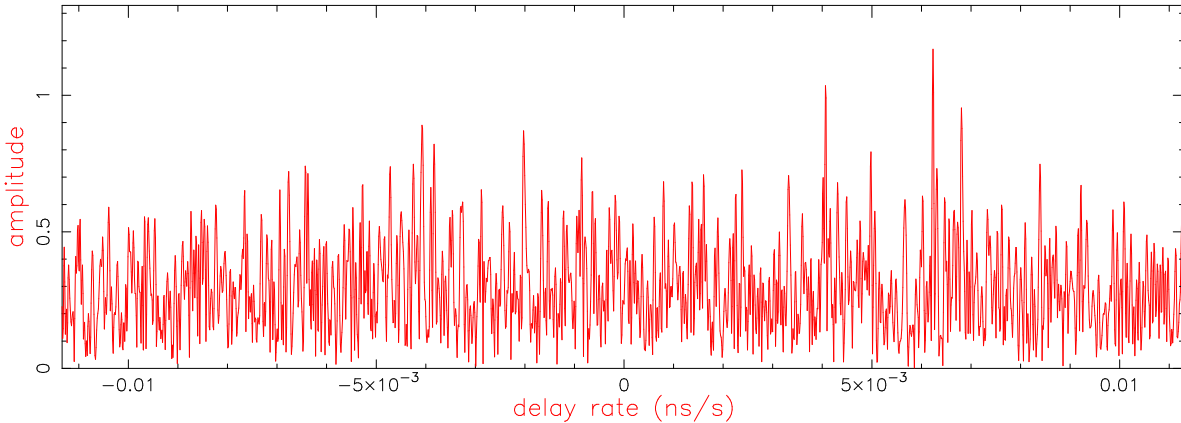
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.45927645127E+03	Apriori delay (usec)	-9.45970096359E+03	Resid mbdelay (usec)	-6.68422E-06	+/- 5.8E-03
Sband delay (usec)	-9.45927645692E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	4.24507E-01	+/- 5.8E-03
Phase delay (usec)	-9.45970096863E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.04611E-06	+/- 4.7E-07
Delay rate (us/s)	5.69309424929E-01	Apriori rate (us/s)	5.69311720168E-01	Resid rate (us/s)	-2.29524E-06	+/- 2.7E-09
Total phase (deg)	-133.6	Apriori accel (us/s/s)	3.34194442819E-05	Resid phase (deg)	-132.4	+/- 14.5

ph/seg (deg)	RMS 92.4	Theor. 123.4	Amplitude Search (2048X8)	1.117 +/- 0.141	1.077	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	93.3	215.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.503	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.106	Sample rate(MSamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011	
				m, u, v (fr/asec) -3917.613 -125.190		nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

m: az 60.4 el 25.6 pa -83.1 o: az 85.2 el 61.8 pa -74.4 u, v (fr/asec) -3917.613 -125.190 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mo.W.88.1T5GR2

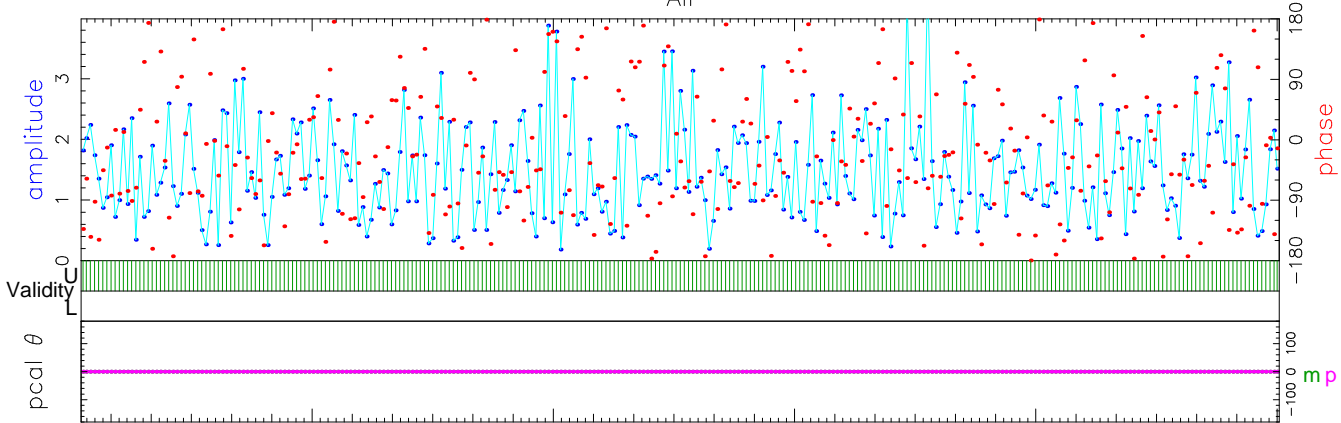
Fringe quality 8



SNR 8.4
Int time 296.984
Amp 1.329
Phase 357.4
PFD 5.3e-10
Delays (us)
SBD -0.116644
MBD 0.000007
Fringe rate (Hz)
0.536748
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-55.9
0.4
1531.4
U/L 581/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UR

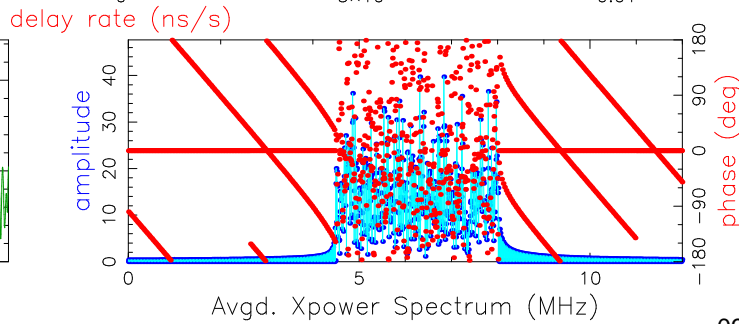
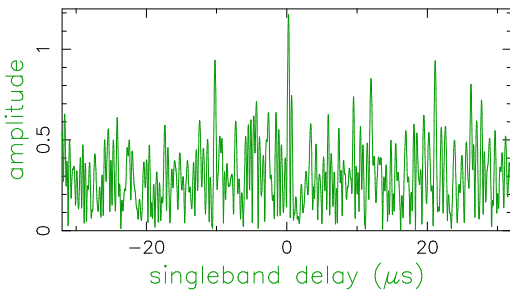
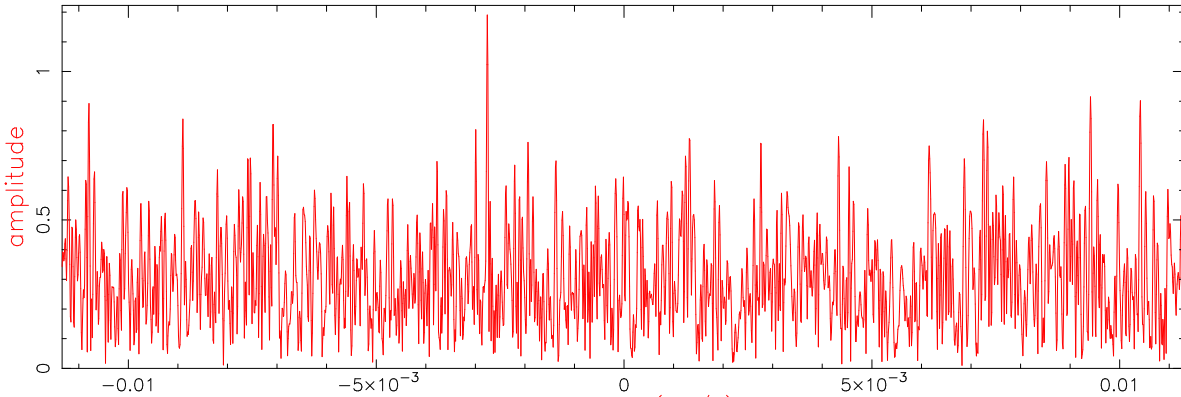
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06484727650E+04	Apriori delay (usec)	-1.06483561266E+04	Resid mbdelay (usec)	7.24676E-06	+/-	5.4E-03
Sband delay (usec)	-1.06484727706E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-1.16644E-01	+/-	5.4E-03
Phase delay (usec)	-1.06483561284E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.80324E-06	+/-	4.4E-07
Delay rate (us/s)	7.11711795150E-01	Apriori rate (us/s)	7.11705564041E-01	Resid rate (us/s)	6.23111E-06	+/-	2.5E-09
Total phase (deg)	89.1	Apriori accel (us/s/s)	4.23693216269E-05	Resid phase (deg)	357.4	+/-	13.6

ph/seg (deg)	RMS 90.1	Theor. 115.8	Amplitude Search (2048X8)	1.329 +/- 0.157	1.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.4	202.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.560	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.318	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

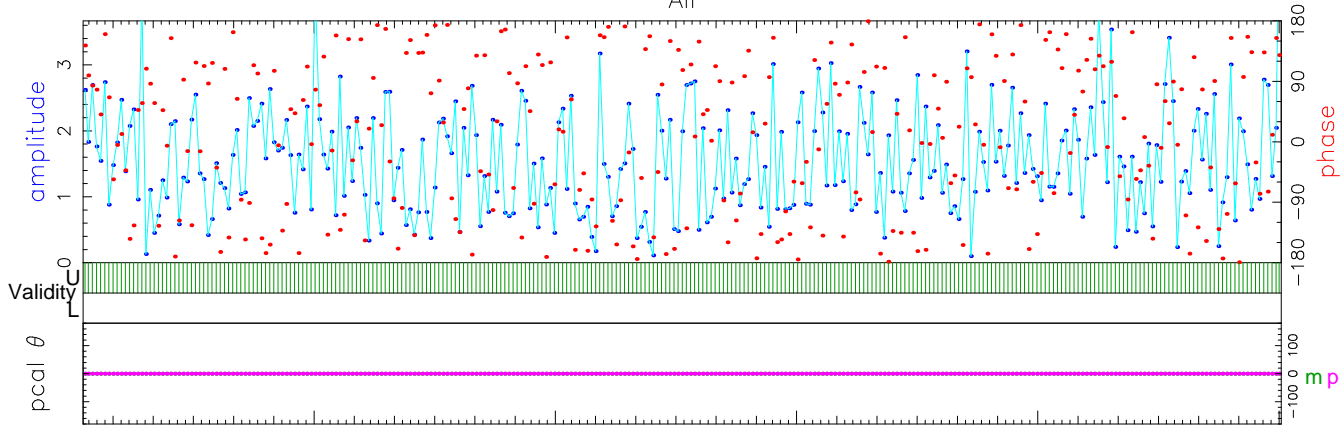
m: az 60.4 el 25.6 pa -83.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -4898.004 663.664 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mp.W.114.1T5GR2

Fringe quality 8



SNR 8.6
Int time 296.984
Amp 1.223
Phase -173.9
PFD 1.3e-10
Delays (us)
SBD 0.239721
MBD -0.000005
Fringe rate (Hz)
-0.237606
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
134.4
0.4
1548.5
U/L 581/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p 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)	-1.06481164039E+04	Apriori delay (usec)	-1.06483561266E+04	Resid mbdelay (usec)	-4.97338E-06	+/- 5.3E-03
Sband delay (usec)	-1.06481164053E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	2.39721E-01	+/- 5.3E-03
Phase delay (usec)	-1.06483561223E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.33380E-06	+/- 4.3E-07
Delay rate (us/s)	7.11702805676E-01	Apriori rate (us/s)	7.11705564041E-01	Resid rate (us/s)	-2.75836E-06	+/- 2.5E-09
Total phase (deg)	-82.2	Apriori accel (us/s/s)	4.23693216269E-05	Resid phase (deg)	-173.9	+/- 13.3

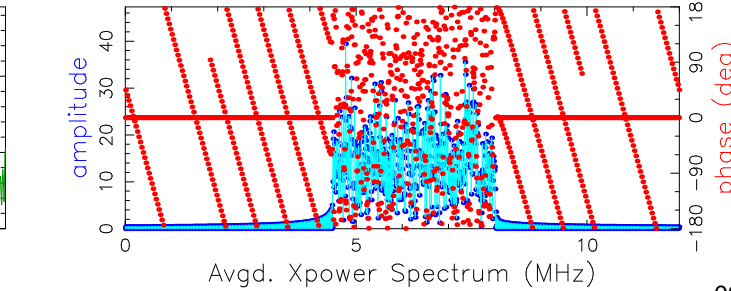
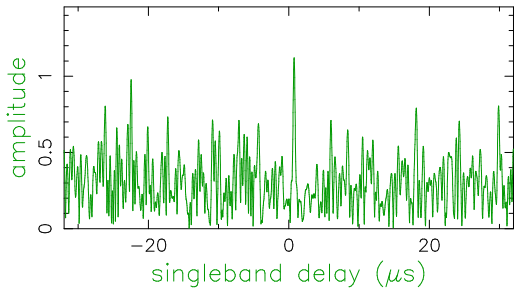
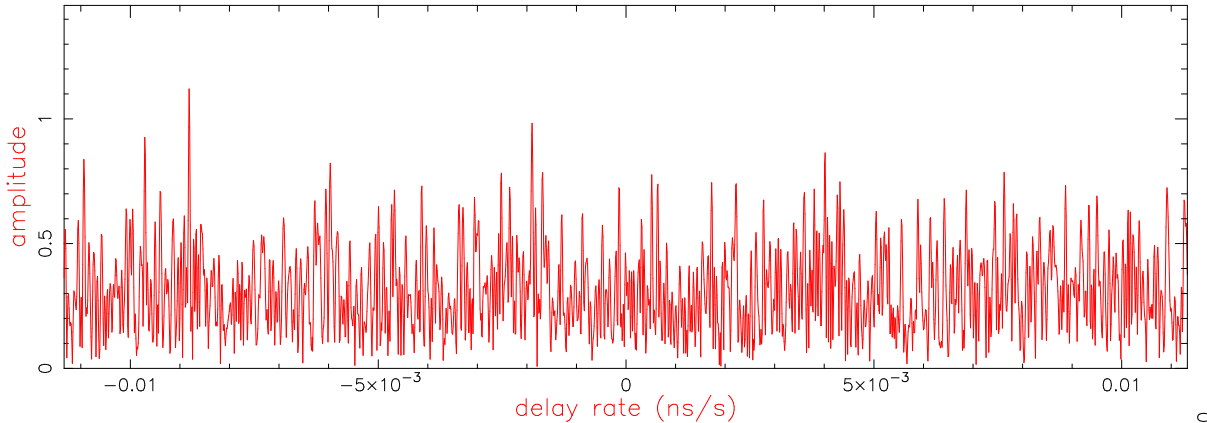
ph/seg (deg)	RMS 93.6	Theor. 113.5	Amplitude Search (2048X8)	1.223 +/- 0.142	1.188	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.9	198.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.535	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.6	Inc. frq. avg.	1.212	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) -4898.004 663.664		nlags: 1536 t_cohere infinite	
						ion window (TEC) 0.00 0.00	

m: az 60.4 el 25.6 pa -83.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -4898.004 663.664 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mp.W.125.1T5GR2

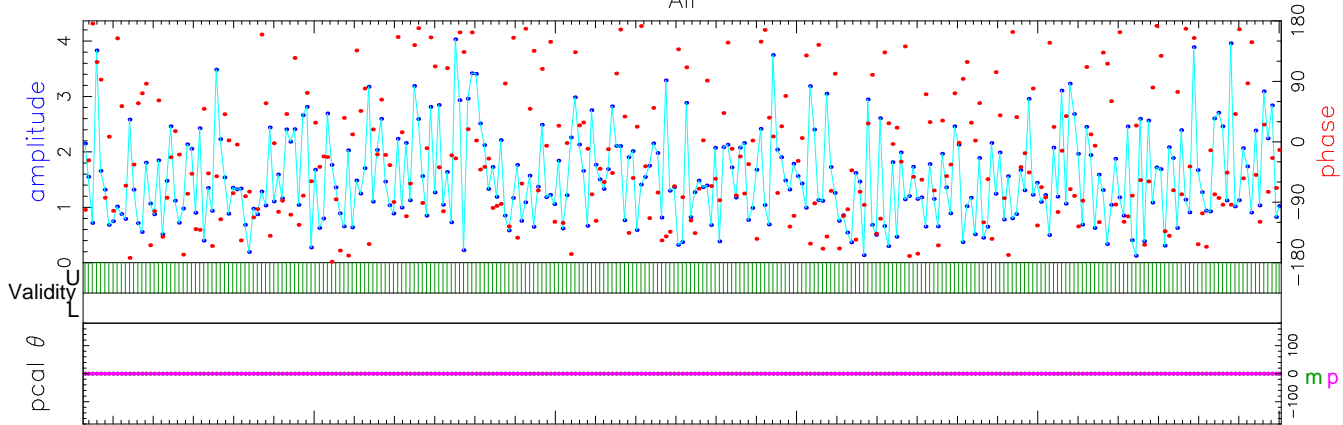
Fringe quality 8

SNR 8.1
Int time 296.984
Amp 1.455
Phase -162.3
PFD 1.0e-08
Delays (us)
SBD 0.750088
MBD -0.000007
Fringe rate (Hz)
-0.758048
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-69.5
0.4
1573.0
U/L 581/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UL

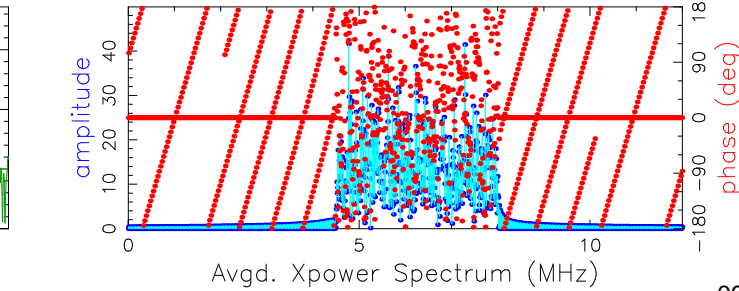
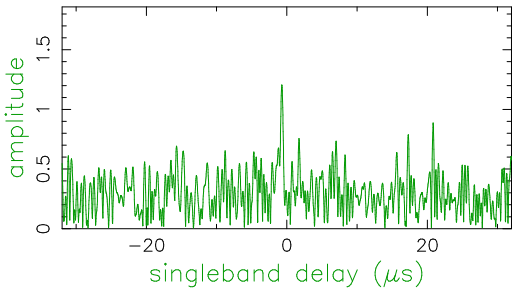
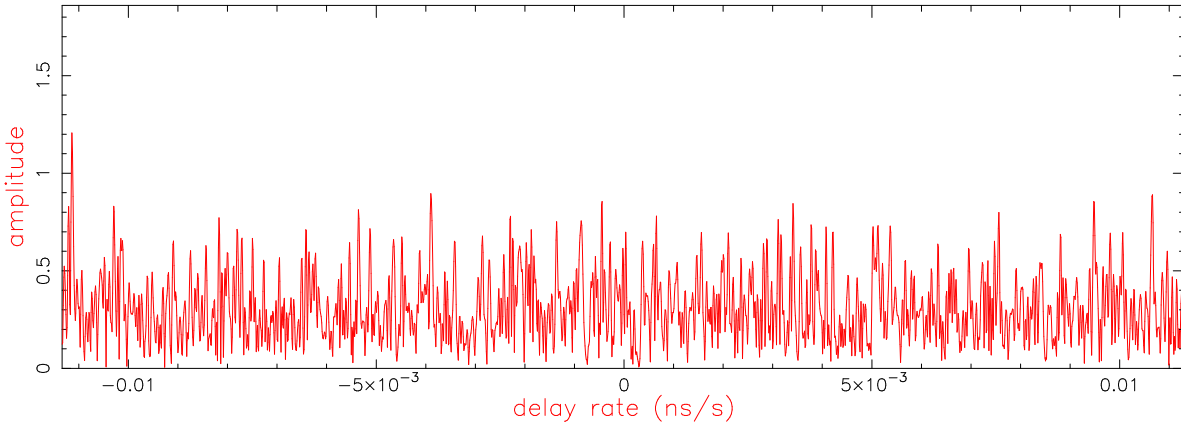
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06476060440E+04	Apriori delay (usec)	-1.06483561266E+04	Resid mbdelay (usec)	-7.24717E-06	+/- 5.7E-03
Sband delay (usec)	-1.06476060386E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	7.50088E-01	+/- 5.7E-03
Phase delay (usec)	-1.06483561288E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.24080E-06	+/- 4.6E-07
Delay rate (us/s)	7.11696763859E-01	Apriori rate (us/s)	7.11705564041E-01	Resid rate (us/s)	-8.80018E-06	+/- 2.7E-09
Total phase (deg)	-70.6	Apriori accel (us/s/s)	4.23693216269E-05	Resid phase (deg)	-162.3	+/- 14.2

ph/seg (deg)	RMS 90.3	Theor. 120.9	Amplitude Search (2048X8)	1.455 +/- 0.180	1.110	1.110	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	82.5	211.0	Interp.	0.000	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.622	0.622	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.444	1.444	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

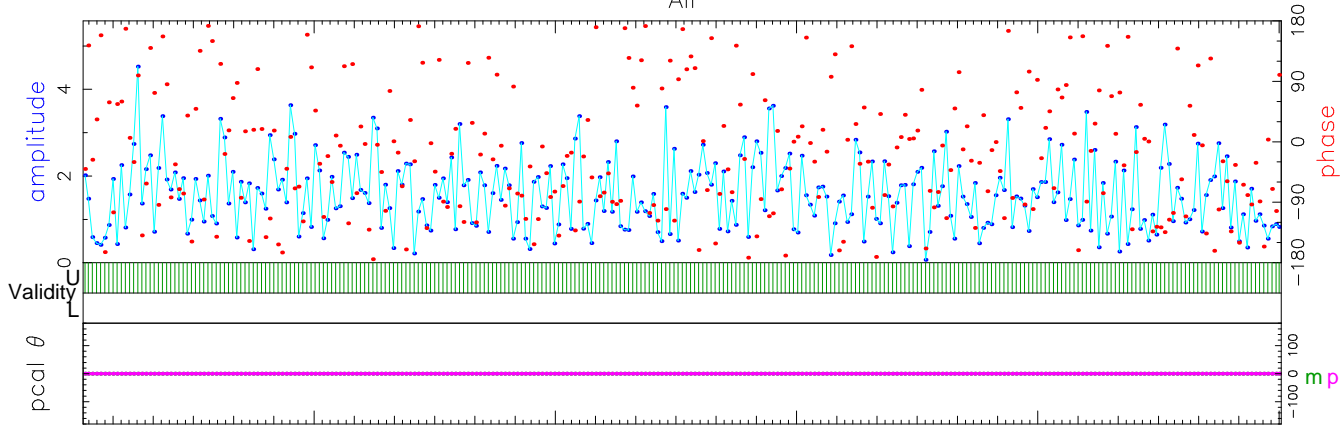
m: az 60.4 el 25.6 pa -83.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -4898.004 663.664 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mp.W.138.1T5GR2

Fringe quality 8



SNR 8.7
Int time 296.984
Amp 1.860
Phase 164.5
PFD 5.7e-11
Delays (us)
SBD -0.708207
MBD -0.000007
Fringe rate (Hz)
-0.958448
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010002.56
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 291 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



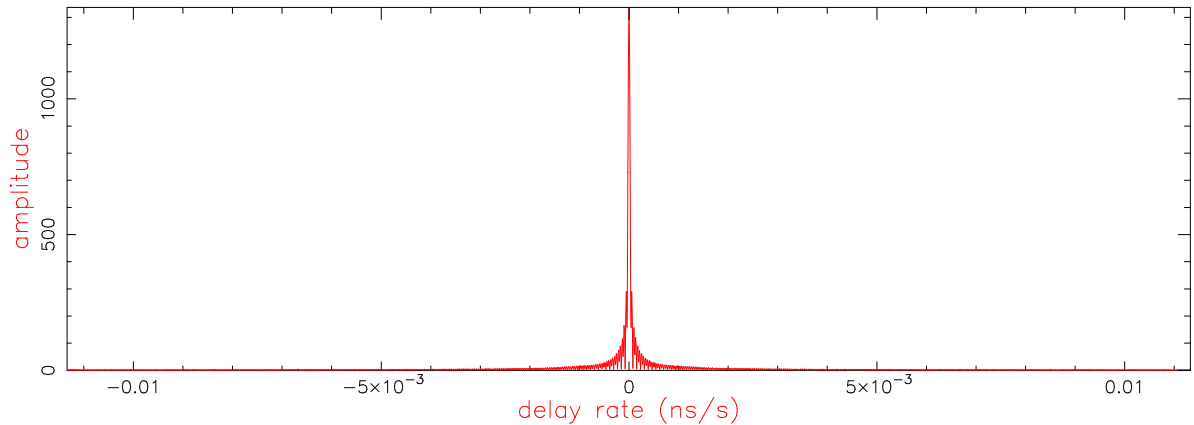
86227.00
-56.4
0.5
1503.0
U/L 581/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UL

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)	-1.06490643342E+04	Apriori delay (usec)	-1.06483561266E+04	Resid mbdelay (usec)	-7.19844E-06	+/-	5.3E-03
Sband delay (usec)	-1.06490643333E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-7.08207E-01	+/-	5.3E-03
Phase delay (usec)	-1.06483561284E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.81776E-06	+/-	4.2E-07
Delay rate (us/s)	7.11694437413E-01	Apriori rate (us/s)	7.11705564041E-01	Resid rate (us/s)	-1.11266E-05	+/-	2.5E-09
Total phase (deg)	256.2	Apriori accel (us/s/s)	4.23693216269E-05	Resid phase (deg)	164.5	+/-	13.2

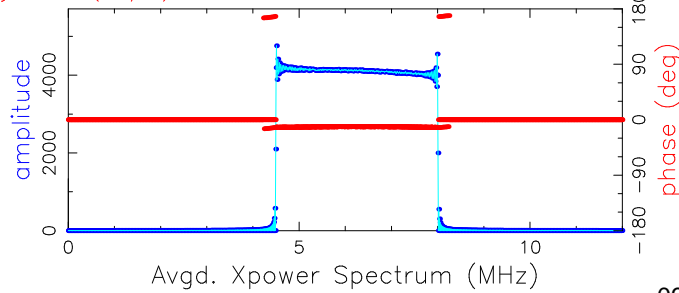
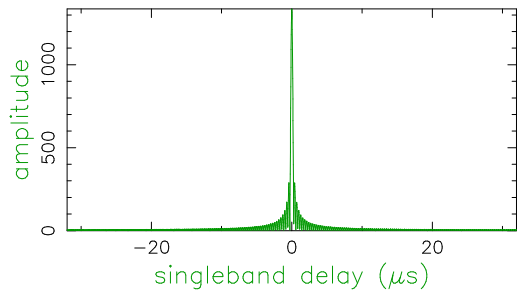
ph/seg (deg)	RMS 91.7	Theor. 112.3	Amplitude 1.860 +/- 0.214	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.2	196.0	Search (2048X8) 1.204	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.5	Inc. seg. avg. 0.833	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.848	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

m: az 60.4 el 25.6 pa -83.1 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -4898.004 663.664 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/mp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/mp.W.94.1T5GR2



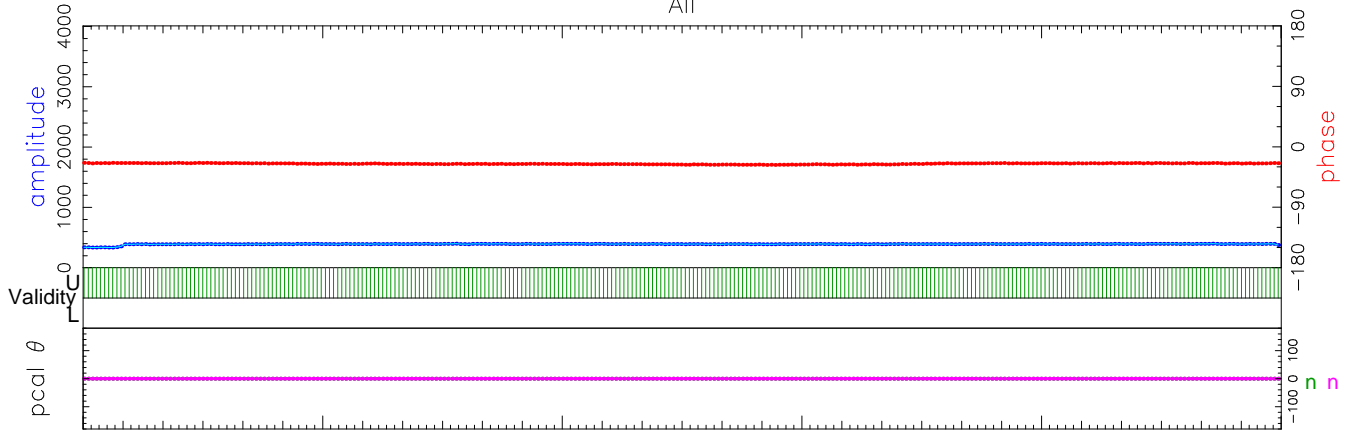
Fringe quality 5

SNR 9693.5
Int time 299.973
Amp 1336.860
Phase 164.0
PFD 0.0e+00
Delays (us)
SBD -0.006053
MBD -0.000006
Fringe rate (Hz)
-0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

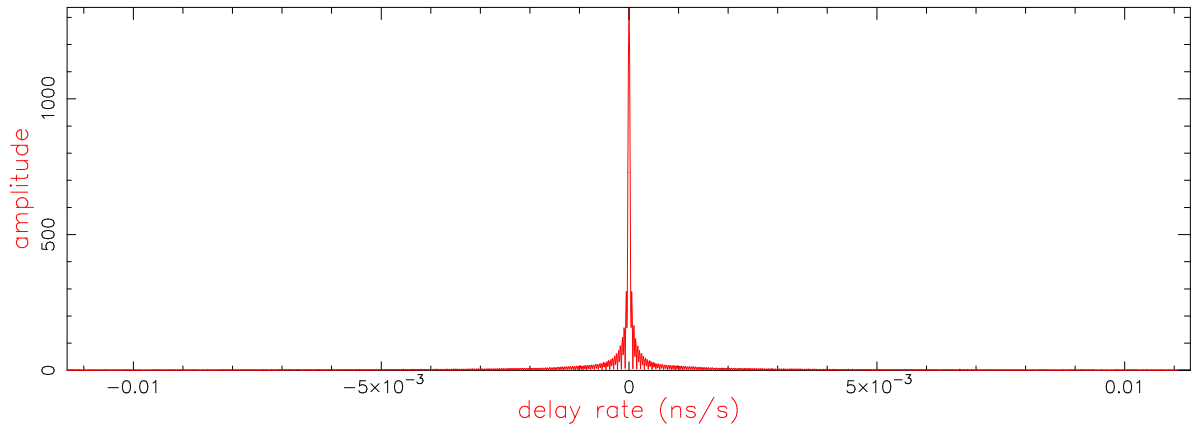


86227.00
-25.2
391.4
1536.7
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UR

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

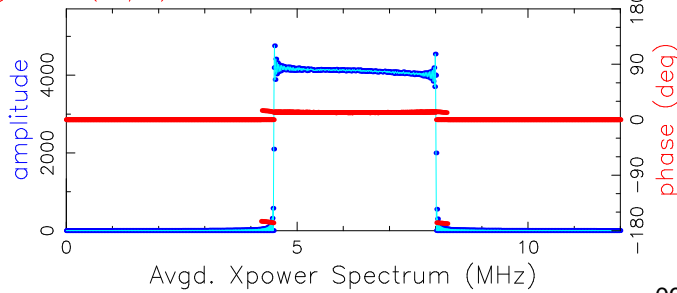
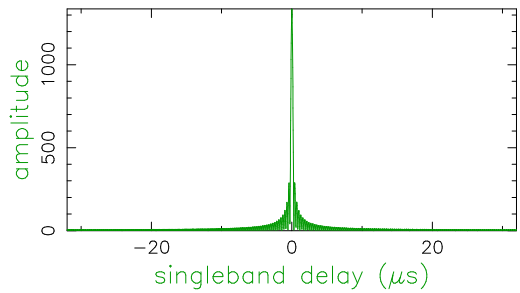
Group delay (usec)(sbd)	-6.04820856576E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.01760E-06	+/-	4.7E-06
Sband delay (usec)	-6.05333333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-6.05333E-03	+/-	4.7E-06
Phase delay (usec)	-8.13392340518E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-8.13392E-07	+/-	3.8E-10
Delay rate (us/s)	-7.08557619584E-13	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.08558E-13	+/-	2.2E-12
Total phase (deg)	164.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	164.0	+/-	0.0

ph/seg (deg)	0.8	Theor.	0.1	Amplitude	1336.860 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.2	Search (2048X8)	1335.866	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.	391.405	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1335.866	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 136.7 el 80.3 pa -37.3				n: az 136.7 el 80.3 pa -37.3		u,v (fr/asec) 0.000 0.000	simultaneous interpolator



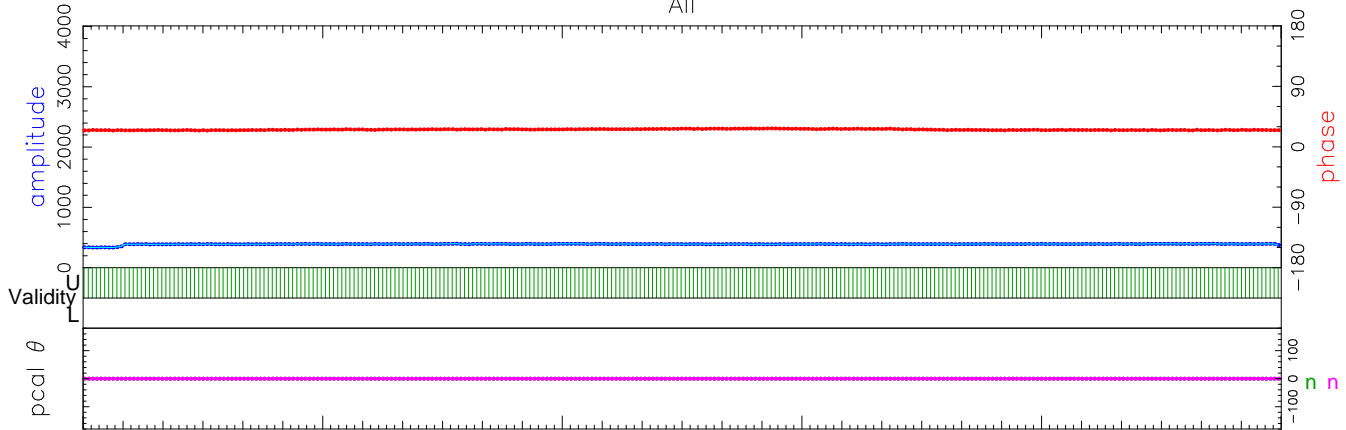
Fringe quality 5

SNR 9693.5
Int time 299.973
Amp 1336.860
Phase -164.0
PFD 0.0e+00
Delays (us)
SBD 0.006053
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
25.6
391.4
1537.3
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UL

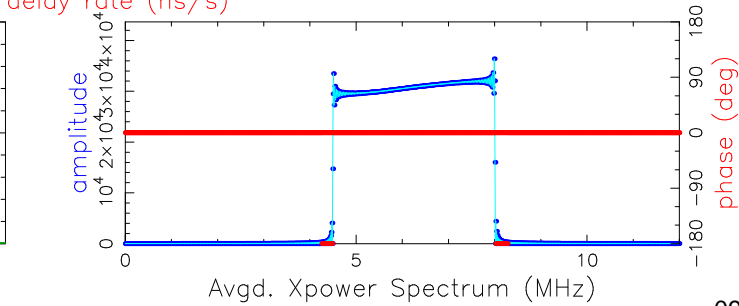
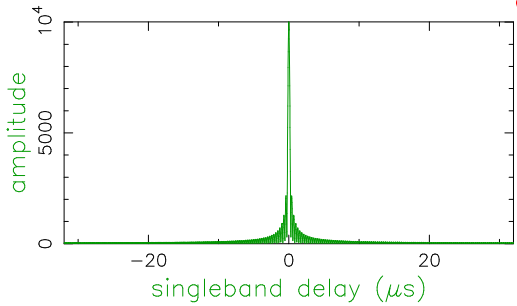
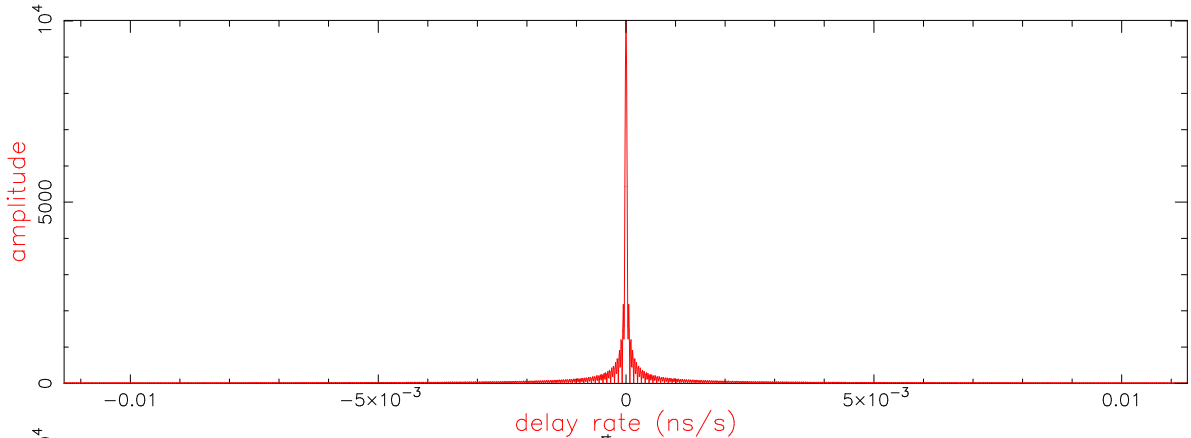
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.04901879922E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76946E-06	+/- 4.7E-06
Sband delay (usec)	6.05333333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	6.05333E-03	+/- 4.7E-06
Phase delay (usec)	8.25038460064E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.25038E-07	+/- 3.8E-10
Delay rate (us/s)	7.08557619584E-13	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.08558E-13	+/- 2.2E-12
Total phase (deg)	-164.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-164.0	+/- 0.0

ph/seg (deg)	0.8	Theor.	0.1	Amplitude	1336.860 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.2	Search (2048X8)	1335.866	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.	391.405	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1335.866	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 136.7 el 80.3 pa -37.3				u,v (fr/asec)	0.000 0.000	nlags: 1536 t_cohere infinite	

simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/nn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/nn.W.129.1T5GR2



Fringe quality 5

SNR 72614.5

Int time 299.973

Amp 10014.507

Phase 0.2

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD -0.000005

Fringe rate (Hz)

0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211d

Exper # 16383

Yr:day 2021:117

Start 010000.00

Stop 010500.03

FRT 010230.00

Corr/FF/build

2021:228:034942

2021:228:051922

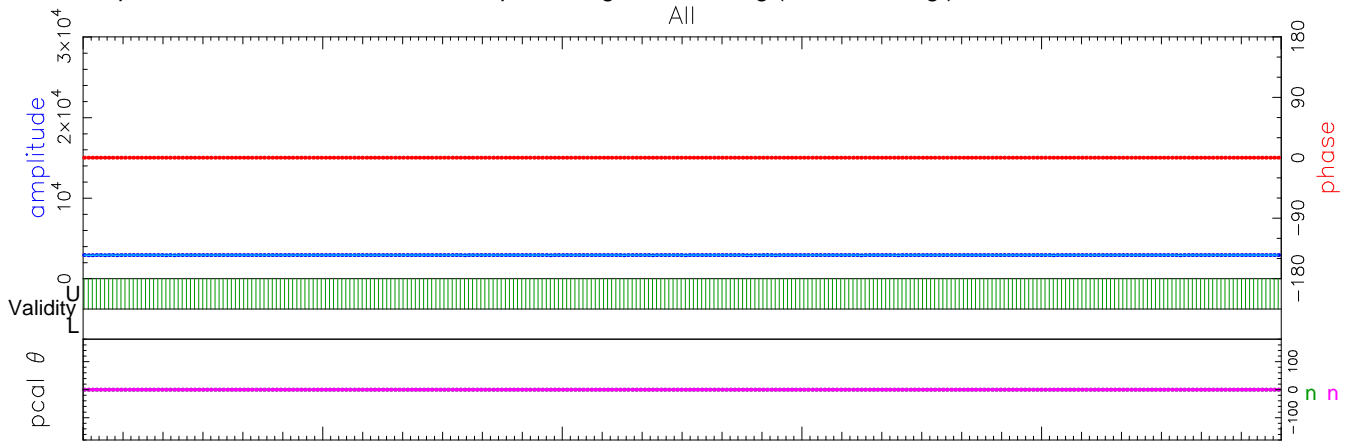
2021:057:122453

RA & Dec (J2000)

09h45m34.287498s

+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86227.00

0.2

2933.9

1537.0

U/L 586/0

n 0

n 0

n:n 0:0

n:n 0:0

n 1000

n 1000

n W03UL

n W03UL

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC freqs

PC phase

ManI PC

PC amp

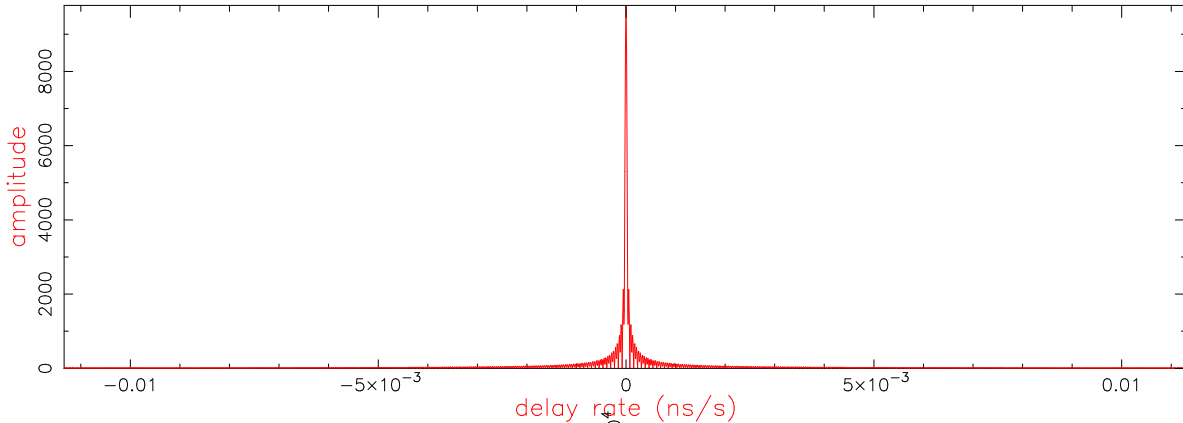
Chan ids

Chan ids

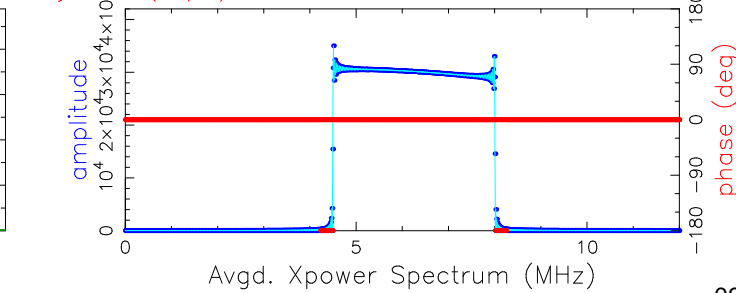
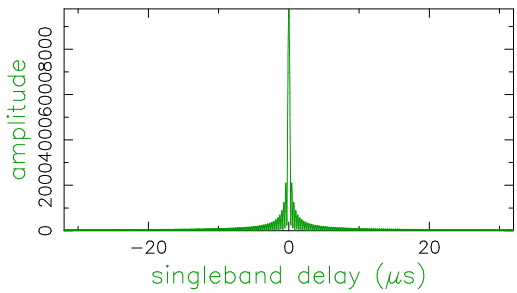
Group delay (usec)(sbd)	-4.77947742586E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.77948E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	5.16010448811E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.16010E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10014.507 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10014.507	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.	2933.937	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10014.507	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 136.7 el 80.3 pa -37.3				u,v (fr/asec)	0.000 0.000	nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 5

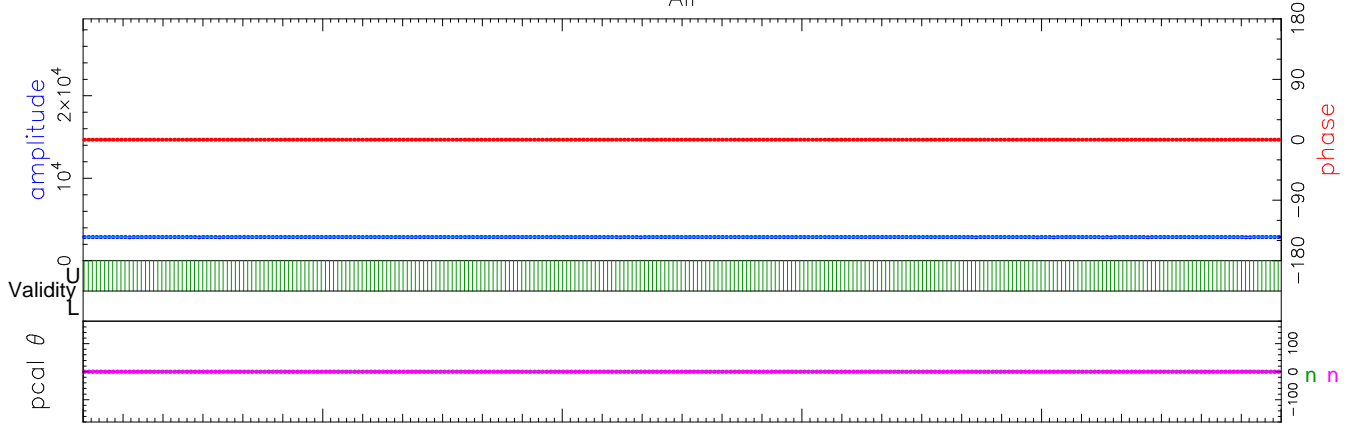


SNR 70896.9
Int time 299.973
Amp 9777.622
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2864.5
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UR

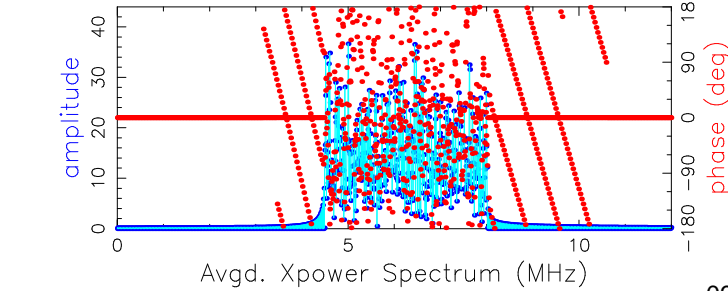
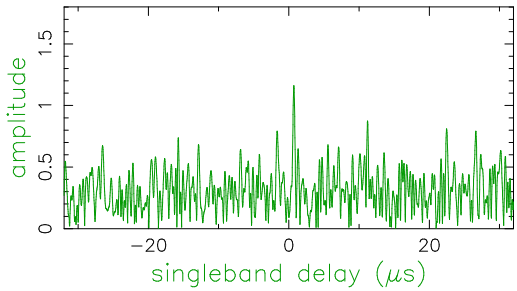
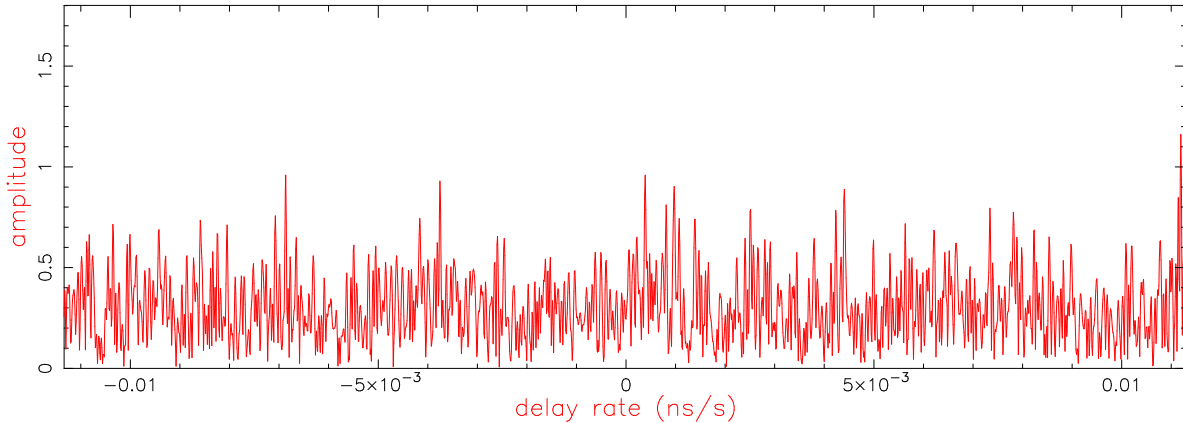
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.75489115938E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.75489E-06	+/-	6.5E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.5E-07
Phase delay (usec)	5.13356022548E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.13356E-09	+/-	5.2E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9777.622 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9777.621	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.	2864.537	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9777.621	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

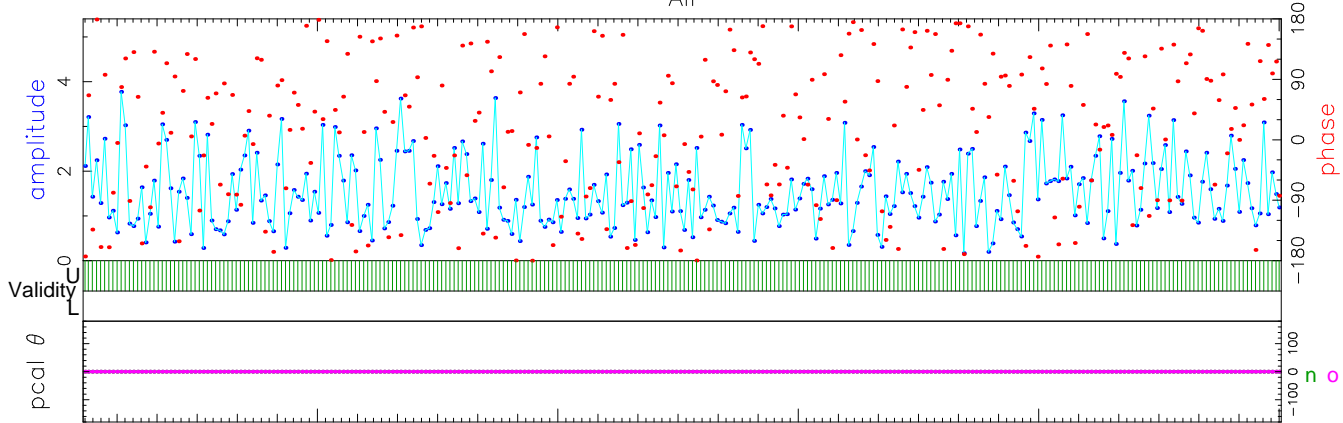
n: az 136.7 el 80.3 pa -37.3 n: az 136.7 el 80.3 pa -37.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/nn..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/nn.W.99.1T5GR2

Fringe quality 8



SNR 8.4
Int time 297.975
Amp 1.801
Phase -9.0
PFD 7.6e-10
Delays (us)
SBD 0.716069
MBD 0.000007
Fringe rate (Hz)
0.963343
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
98.1
0.5
1571.4
U/L 583/0
n 0
o 0
n:o 0:0
o 0
n 1000
o 1000
n W03UL
o W03UL

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

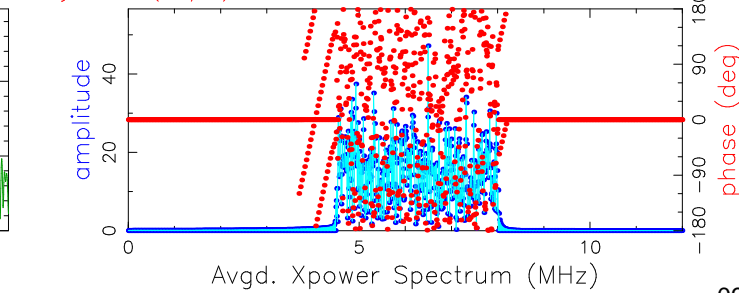
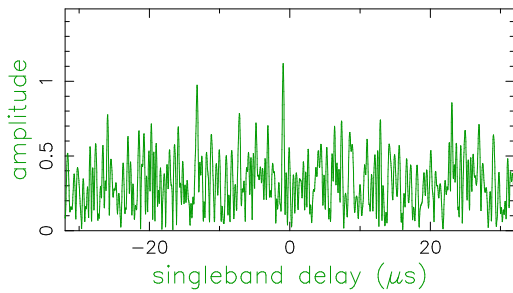
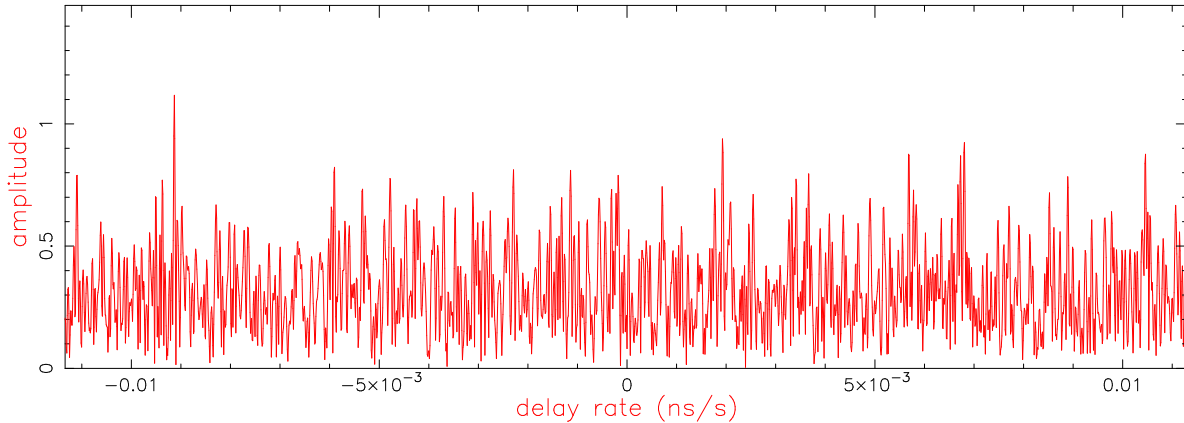
Group delay (usec)(sbd)	2.14922733484E+03	Apriori delay (usec)	2.14851126419E+03	Resid mbdelay (usec)	7.24314E-06	+/-	5.5E-03
Sband delay (usec)	2.14922733352E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	7.16069E-01	+/-	5.5E-03
Phase delay (usec)	2.14851126735E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.16443E-06	+/-	4.4E-07
Delay rate (us/s)	-4.48979320686E-01	Apriori rate (us/s)	-4.48990504138E-01	Resid rate (us/s)	1.11835E-05	+/-	2.6E-09
Total phase (deg)	-262.0	Apriori accel (us/s/s)	-7.52337455552E-06	Resid phase (deg)	-9.0	+/-	13.6

ph/seg (deg)	RMS 94.1	Theor. 116.6	Amplitude Search (2048X8)	1.801 +/- 0.214	1.154	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.3	203.5	Interp.	0.000	1.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.782	1.154	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.787	1.154	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 136.7 el 80.3 pa -37.3	o: az 85.2 el 61.8 pa -74.4		u,v (fr/asec) 3109.255 26.384		Data rate(Mb/s): 48		ion window (TEC) 0.00 0.00

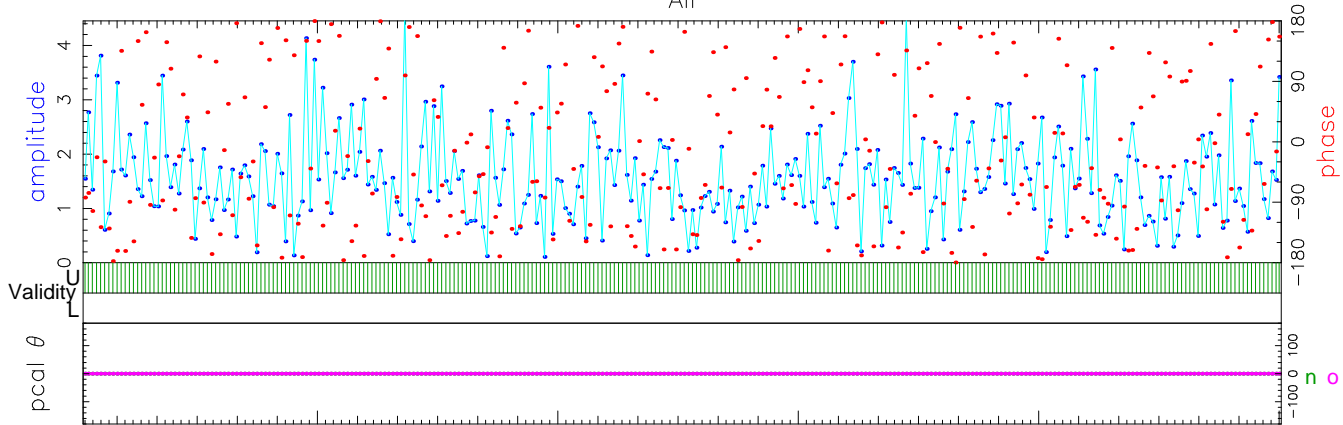
Fringe quality 8

SNR 8.1
Int time 297.975
Amp 1.485
Phase 343.5
PFD 9.5e-09
Delays (us)
SBD -0.946549
MBD -0.000007
Fringe rate (Hz)
-0.785587
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-142.1
0.4
1491.6
U/L 583/0
n 0
o 0
n:o 0:0
o 0:0
n 1000
o 1000
n W03UR
o W03UR

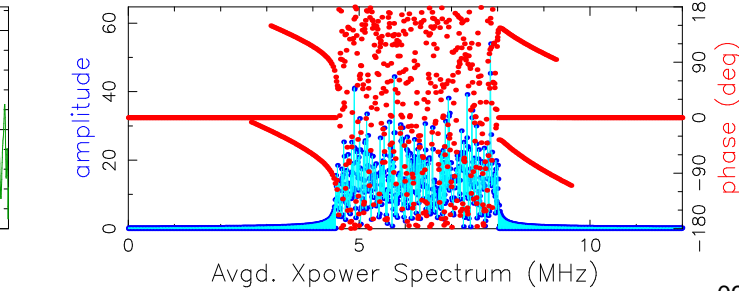
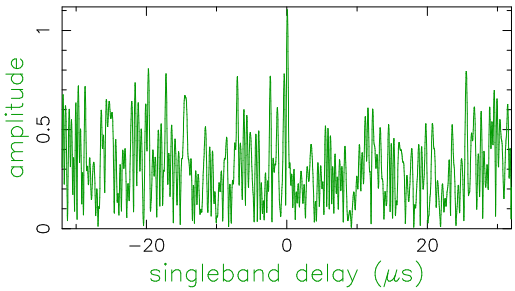
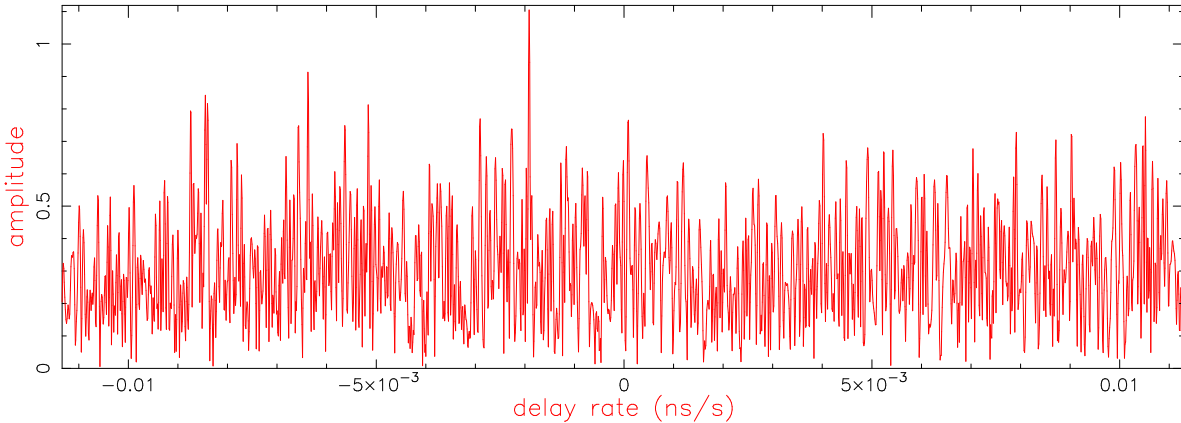
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.14756472048E+03	Apriori delay (usec)	2.14851126419E+03	Resid mbdelay (usec)	-7.24179E-06	+/- 5.7E-03
Sband delay (usec)	2.14756471485E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-9.46549E-01	+/- 5.7E-03
Phase delay (usec)	2.14851125961E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.58134E-06	+/- 4.6E-07
Delay rate (us/s)	-4.48999624026E-01	Apriori rate (us/s)	-4.48990504138E-01	Resid rate (us/s)	-9.11989E-06	+/- 2.6E-09
Total phase (deg)	90.4	Apriori accel (us/s/s)	-7.52337455552E-06	Resid phase (deg)	343.5	+/- 14.2

ph/seg (deg)	RMS 93.7	Theor. 121.0	Amplitude Search (2048X8)	1.485 +/- 0.183	1.100	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.3	211.1	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	7.1	Inc. seg. avg.	0.647	Bits/sample: 2x2	ion window (TEC)	0.00 0.00
amp/frq (%)	70.8	12.4	Inc. frq. avg.	1.469	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011

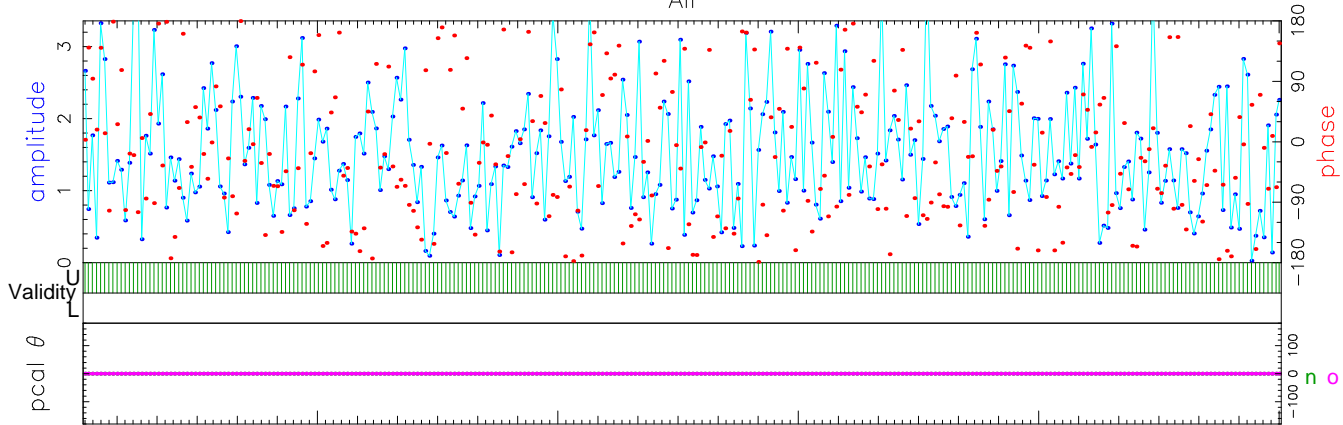
n: az 136.7 el 80.3 pa -37.3 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 3109.255 26.384 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/no..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/no.W.116.1T5GR2

Fringe quality 8



SNR 8.0
Int time 297.975
Amp 1.119
Phase -74.6
PFD 2.1e-08
Delays (us)
SBD 0.068957
MBD -0.000006
Fringe rate (Hz)
-0.164734
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-74.9
0.3
1540.3
U/L 583/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UR

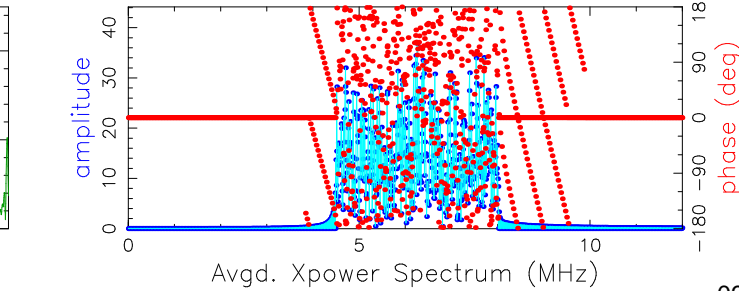
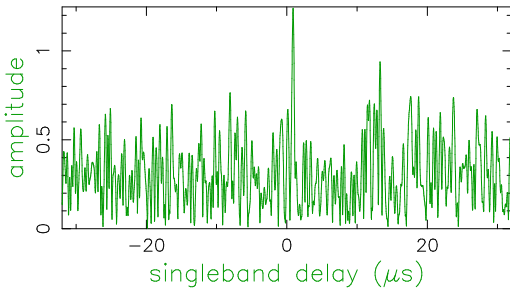
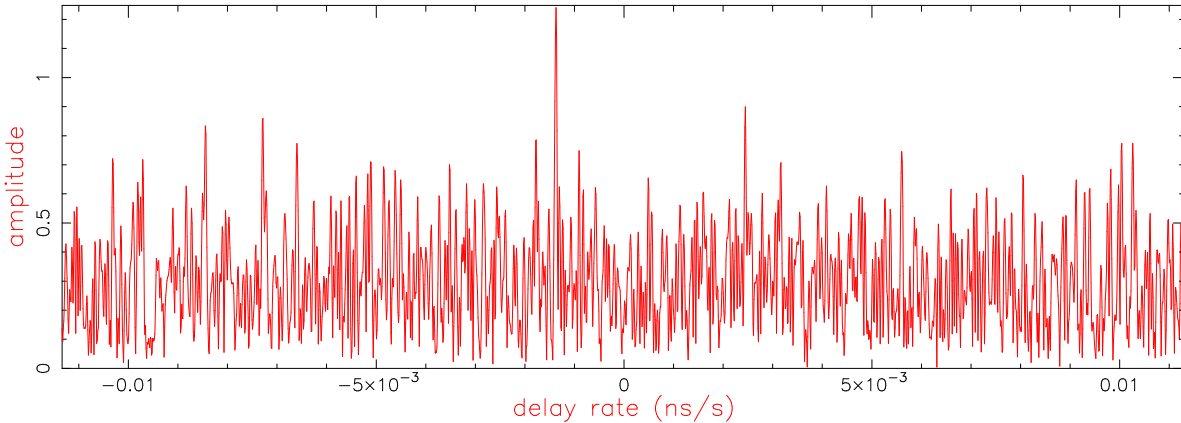
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.14858021586E+03	Apriori delay (usec)	2.14851126419E+03	Resid mbdelay (usec)	-5.84921E-06	+/- 5.7E-03
Sband delay (usec)	2.14858022152E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	6.89573E-02	+/- 5.7E-03
Phase delay (usec)	2.14851126177E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.41449E-06	+/- 4.6E-07
Delay rate (us/s)	-4.48992416533E-01	Apriori rate (us/s)	-4.48990504138E-01	Resid rate (us/s)	-1.91239E-06	+/- 2.7E-09
Total phase (deg)	-327.7	Apriori accel (us/s/s)	-7.52337455552E-06	Resid phase (deg)	-74.6	+/- 14.3

ph/seg (deg)	RMS 92.7	Theor. 122.5	Amplitude Search (2048X8)	1.119 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.8	213.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.473	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.109	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
					nlags: 1536 t_cohere infinite	

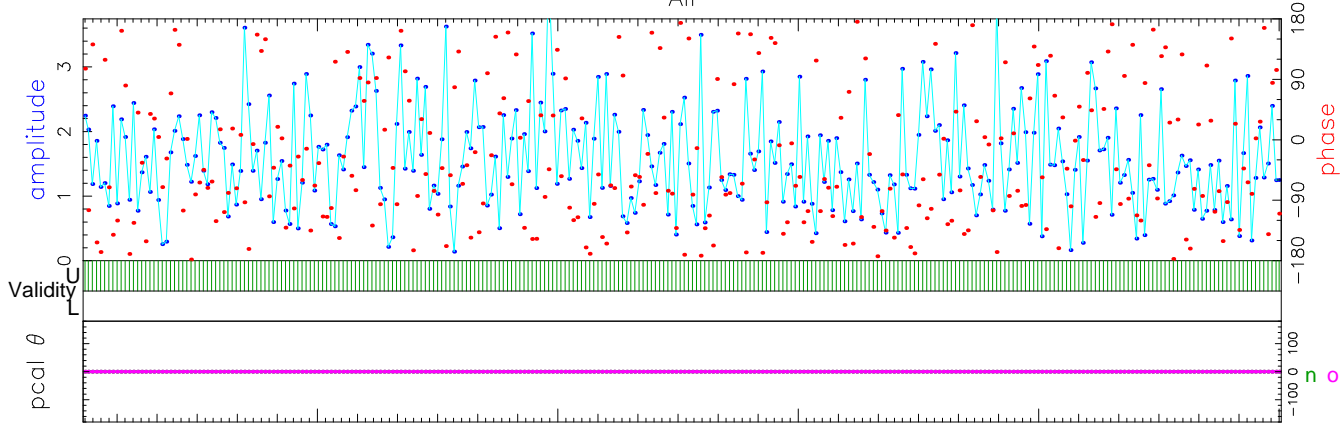
n: az 136.7 el 80.3 pa -37.3 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 3109.255 26.384 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/no..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/no.W.134.1T5GR2

Fringe quality 8



SNR 9.0
Int time 297.975
Amp 1.248
Phase -322.1
PFD 5.6e-12
Delays (us)
SBD 0.892008
MBD -0.000006
Fringe rate (Hz)
-0.118611
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



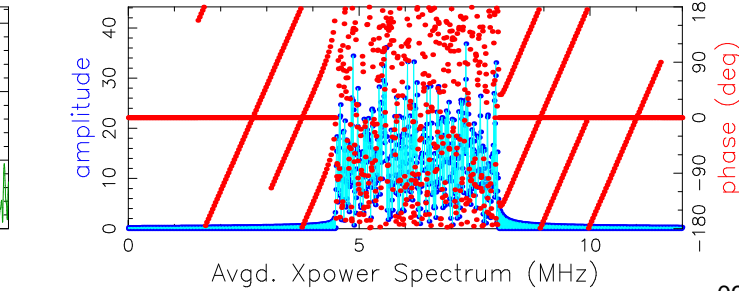
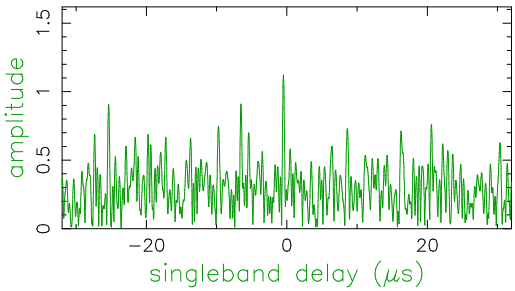
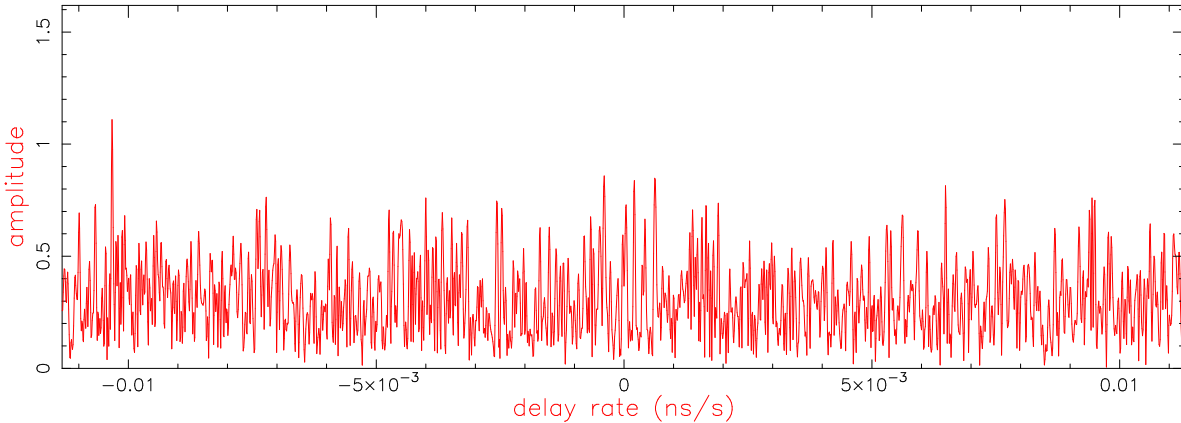
86227.00
-104.1
0.4
1579.8
U/L 583/0
n 0
o 0
n:o 0:0
o 0
n 1000
o 1000
n W03UR
o W03UL

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)	2.14940327584E+03	Apriori delay (usec)	2.14851126419E+03	Resid mbdelay (usec)	-5.92631E-06	+/- 5.1E-03
Sband delay (usec)	2.14940327219E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	8.92008E-01	+/- 5.1E-03
Phase delay (usec)	2.14851126083E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.35655E-06	+/- 4.1E-07
Delay rate (us/s)	-4.48991881093E-01	Apriori rate (us/s)	-4.48990504138E-01	Resid rate (us/s)	-1.37695E-06	+/- 2.4E-09
Total phase (deg)	-215.1	Apriori accel (us/s/s)	-7.52337455552E-06	Resid phase (deg)	-322.1	+/- 12.8

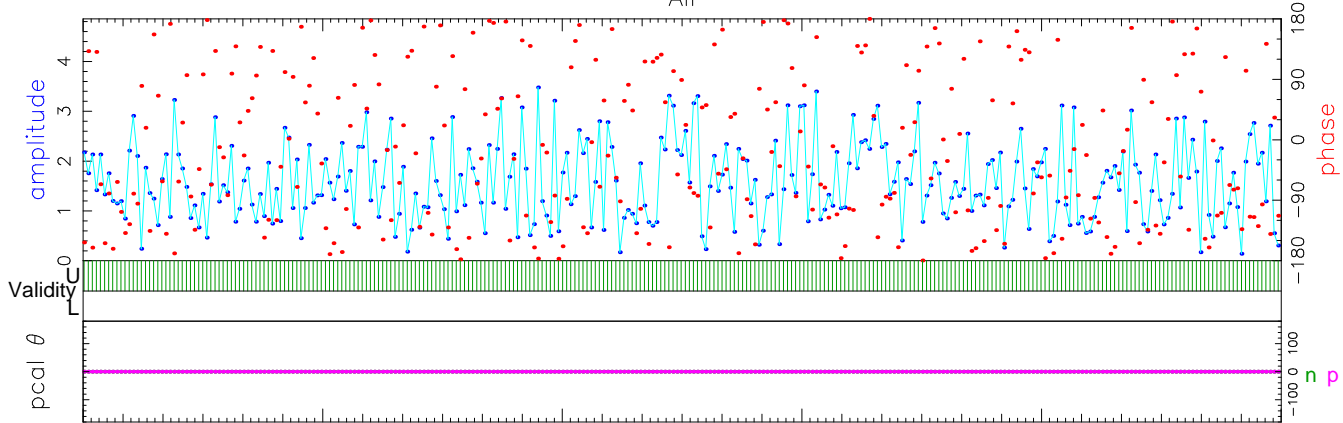
ph/seg (deg)	RMS 88.6	Theor. 109.2	Amplitude 1.248 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.0	190.6	Search (2048X8) 1.219	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. seg. avg. 0.565	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.240	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 136.7 el 80.3 pa -37.3			o: az 85.2 el 61.8 pa -74.4	u,v (fr/asec) 3109.255 26.384	simultaneous interpolator

Fringe quality 8



SNR 8.1
Int time 299.973
Amp 1.619
Phase 99.6
PFD 7.2e-09
Delays (us)
SBD -0.479167
MBD -0.000007
Fringe rate (Hz)
-0.889170
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-147.5
0.5
1513.9
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UL

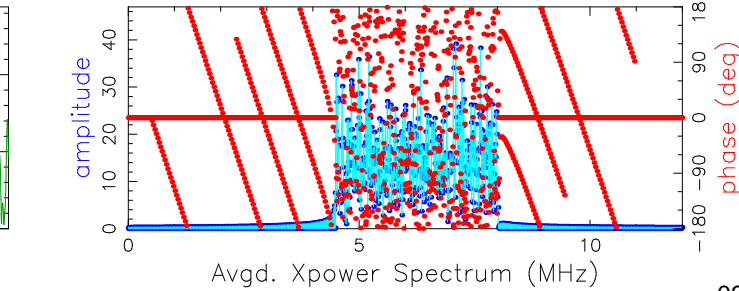
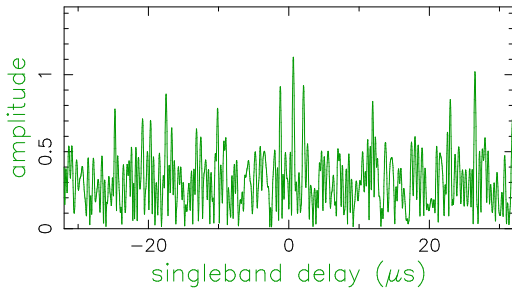
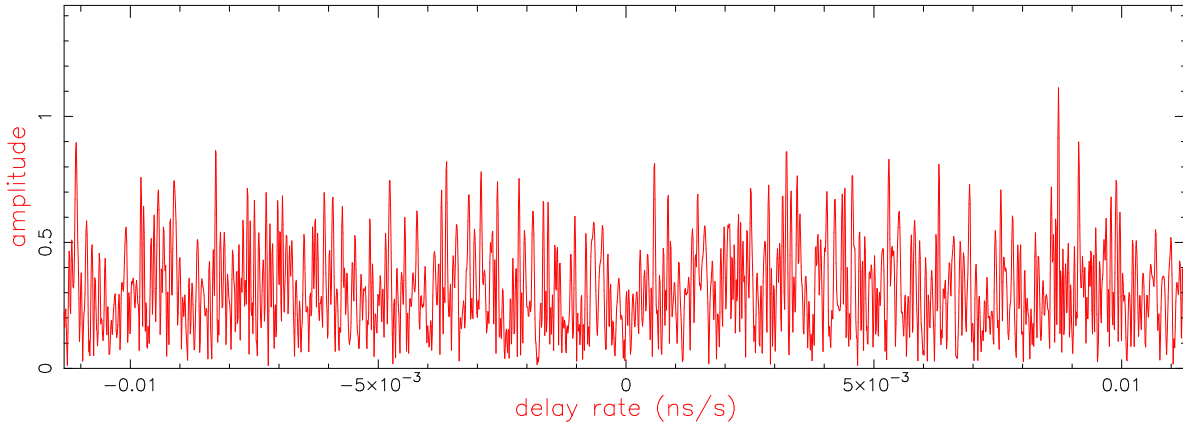
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.59376940064E+02	Apriori delay (usec)	9.59856101174E+02	Resid mbdelay (usec)	-7.24814E-06	+/- 5.7E-03
Sband delay (usec)	9.59376934507E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-4.79167E-01	+/- 5.7E-03
Phase delay (usec)	9.59856096417E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.75662E-06	+/- 4.5E-07
Delay rate (us/s)	-3.06606982645E-01	Apriori rate (us/s)	-3.06596660265E-01	Resid rate (us/s)	-1.03224E-05	+/- 2.6E-09
Total phase (deg)	299.4	Apriori accel (us/s/s)	1.42650278949E-06	Resid phase (deg)	99.6	+/- 14.1

ph/seg (deg)	RMS 94.0	Theor. 120.7	Amplitude Search (2048X8)	1.619 +/- 0.199	1.091	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.2	210.6	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	7.1	Inc. seg. avg.	0.713	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	71.0	12.3	Inc. frq. avg.	1.590	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
n: az 136.7 el 80.3 pa -37.3			p: az 82.7 el 69.8 pa -83.8				ion window (TEC) 0.00 0.00

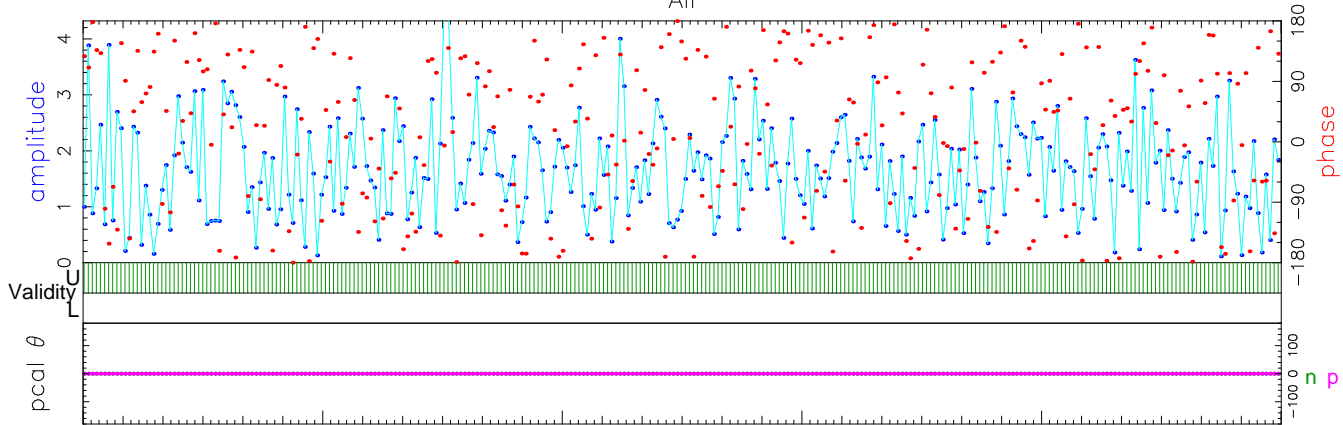
n: az 136.7 el 80.3 pa -37.3 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 2128.864 815.239 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/np..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/np.W.107.1T5GR2

Fringe quality 8



SNR 8.1
Int time 299.973
Amp 1.441
Phase -41.7
PFD 9.9e-09
Delays (us)
SBD 0.637195
MBD 0.000005
Fringe rate (Hz)
0.750763
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
115.1
0.4
1567.6
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UR

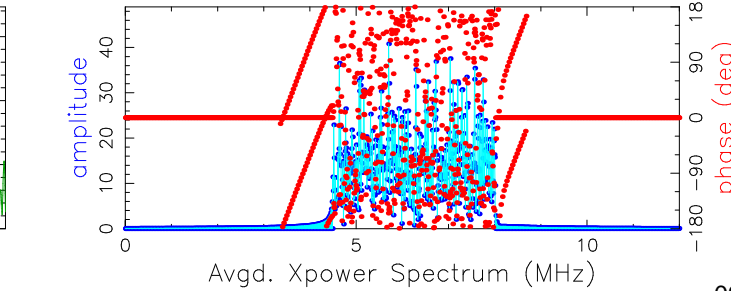
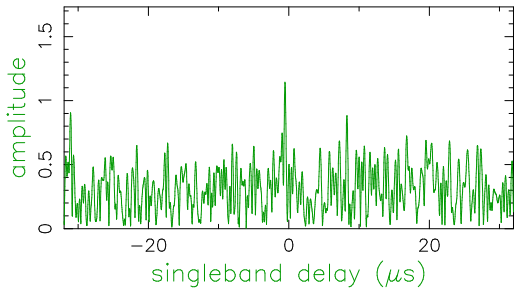
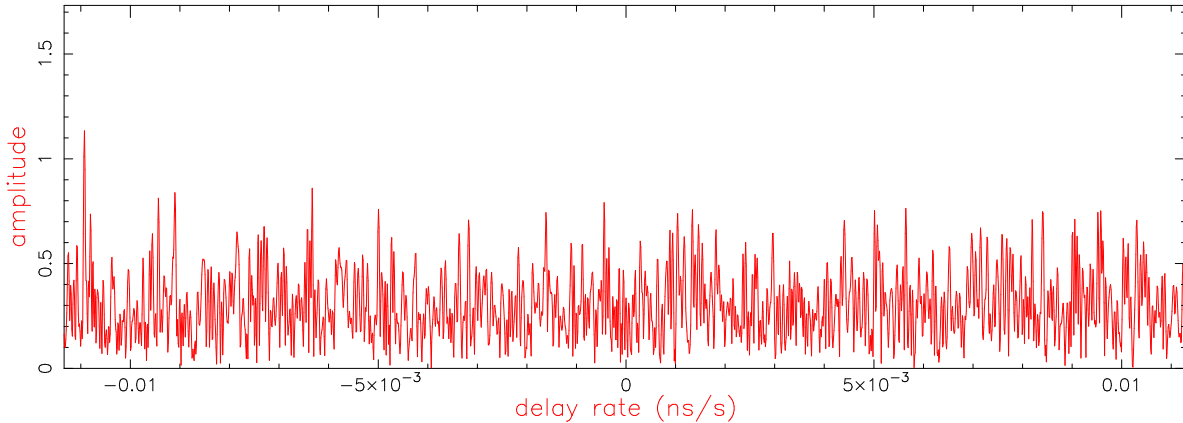
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.60493296073E+02	Apriori delay (usec)	9.59856101174E+02	Resid mbdelay (usec)	4.69227E-06	+/- 5.7E-03
Sband delay (usec)	9.60493295840E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	6.37195E-01	+/- 5.7E-03
Phase delay (usec)	9.59856104885E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.71116E-06	+/- 4.6E-07
Delay rate (us/s)	-3.06587944655E-01	Apriori rate (us/s)	-3.06596660265E-01	Resid rate (us/s)	8.71561E-06	+/- 2.6E-09
Total phase (deg)	-201.9	Apriori accel (us/s/s)	1.42650278949E-06	Resid phase (deg)	-41.7	+/- 14.2

ph/seg (deg)	RMS 92.6	Theor. 121.3	Amplitude 1.441 +/- 0.178	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.9	211.6	Search (2048X8) 1.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. seg. avg. 0.665	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.428	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

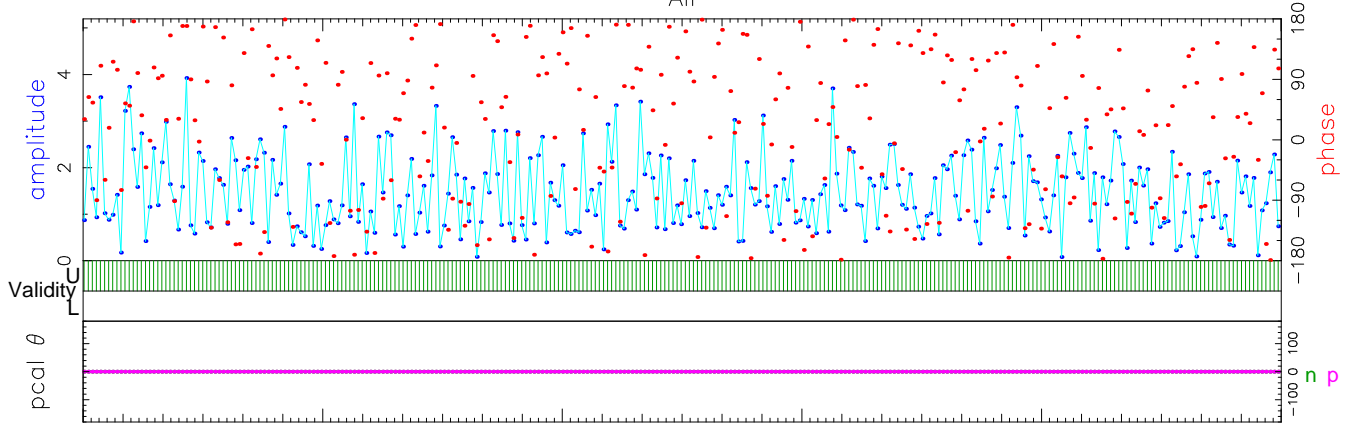
n: az 136.7 el 80.3 pa -37.3 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 2128.864 815.239 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/np..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/np.W.120.1T5GR2

Fringe quality 8



SNR 8.3
Int time 299.973
Amp 1.732
Phase 136.6
PFD 1.8e-09
Delays (us)
SBD -0.541213
MBD -0.000006
Fringe rate (Hz)
-0.939936
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
105.9
0.5
1511.0
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UR

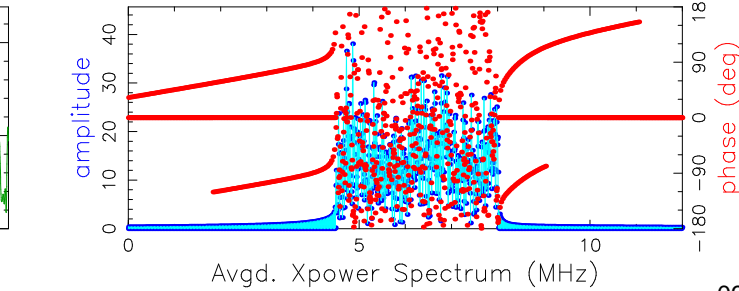
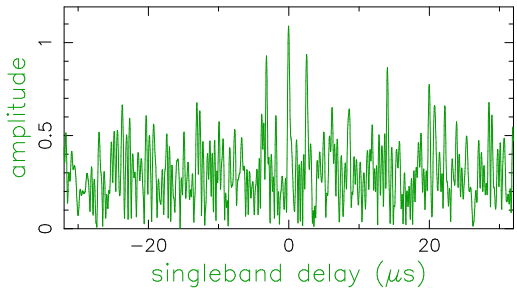
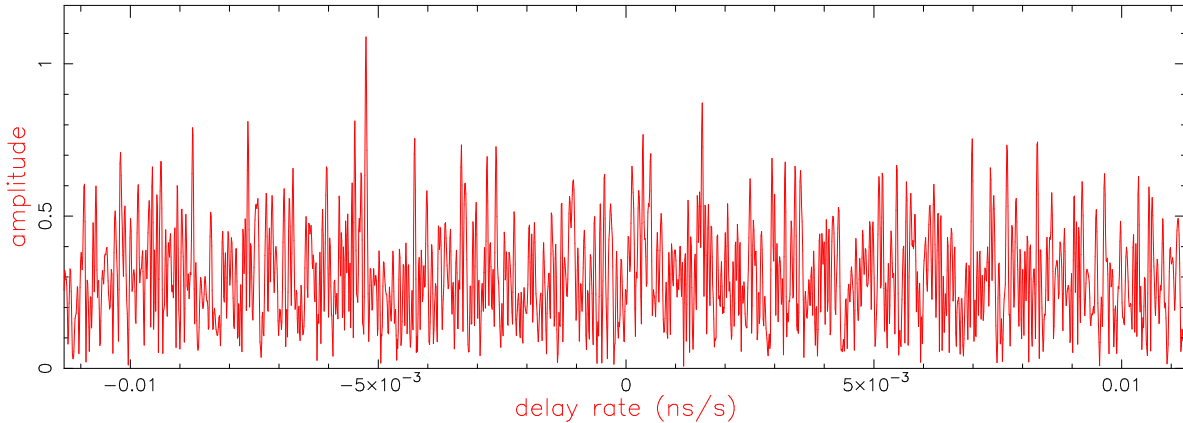
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.59314883874E+02	Apriori delay (usec)	9.59856101174E+02	Resid mbdelay (usec)	-6.31032E-06	+/- 5.5E-03
Sband delay (usec)	9.59314887840E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-5.41213E-01	+/- 5.5E-03
Phase delay (usec)	9.59856104589E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.41528E-06	+/- 4.5E-07
Delay rate (us/s)	-3.06607571990E-01	Apriori rate (us/s)	-3.06596660265E-01	Resid rate (us/s)	-1.09117E-05	+/- 2.6E-09
Total phase (deg)	336.5	Apriori accel (us/s/s)	1.42650278949E-06	Resid phase (deg)	136.6	+/- 13.8

ph/seg (deg)	RMS 93.3	Theor. 118.3	Amplitude Search (2048X8)	1.732 +/- 0.209	1.122	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.0	206.4	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	6.9	Inc. seg. avg.	0.711	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	71.0	12.1	Inc. frq. avg.	1.704	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

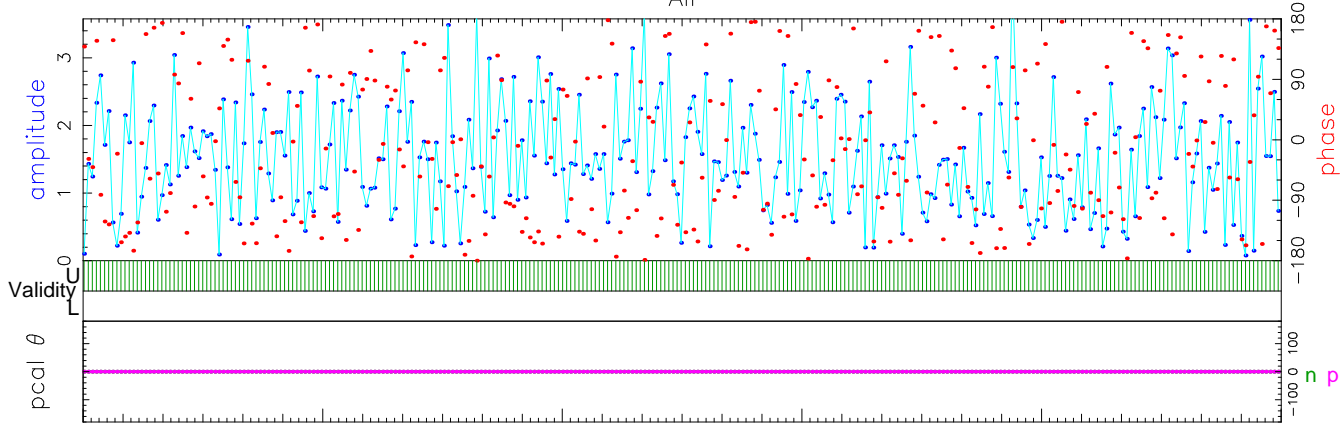
n: az 136.7 el 80.3 pa -37.3 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 2128.864 815.239 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/np..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/np.W.130.1T5GR2

Fringe quality 8



SNR 7.9
Int time 299.973
Amp 1.192
Phase 208.1
PFD 4.3e-08
Delays (us)
SBD -0.033907
MBD -0.000007
Fringe rate (Hz)
-0.451642
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



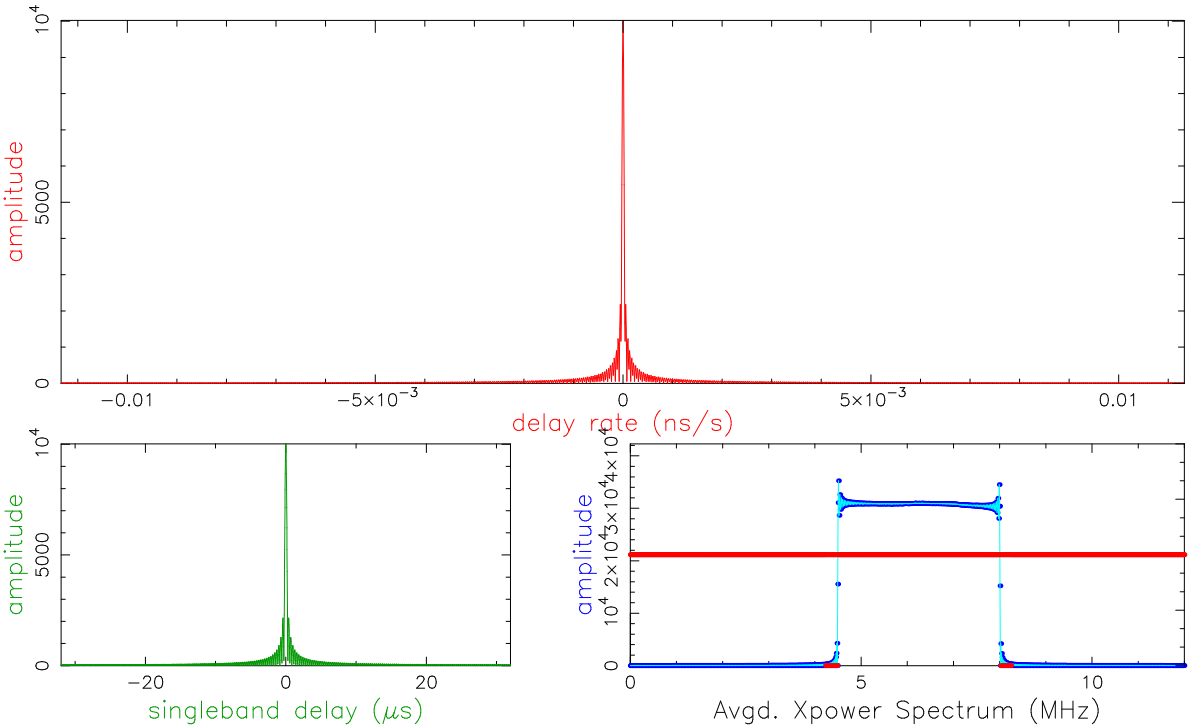
86227.00
-133.6
0.3
1535.4
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UL

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)	9.59822195032E+02	Apriori delay (usec)	9.59856101174E+02	Resid mbdelay (usec)	-7.24745E-06	+/- 5.8E-03
Sband delay (usec)	9.59822194507E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-3.39067E-02	+/- 5.8E-03
Phase delay (usec)	9.59856096864E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.30932E-06	+/- 4.7E-07
Delay rate (us/s)	-3.06601903382E-01	Apriori rate (us/s)	-3.06596660265E-01	Resid rate (us/s)	-5.24312E-06	+/- 2.7E-09
Total phase (deg)	47.9	Apriori accel (us/s/s)	1.42650278949E-06	Resid phase (deg)	208.1	+/- 14.5

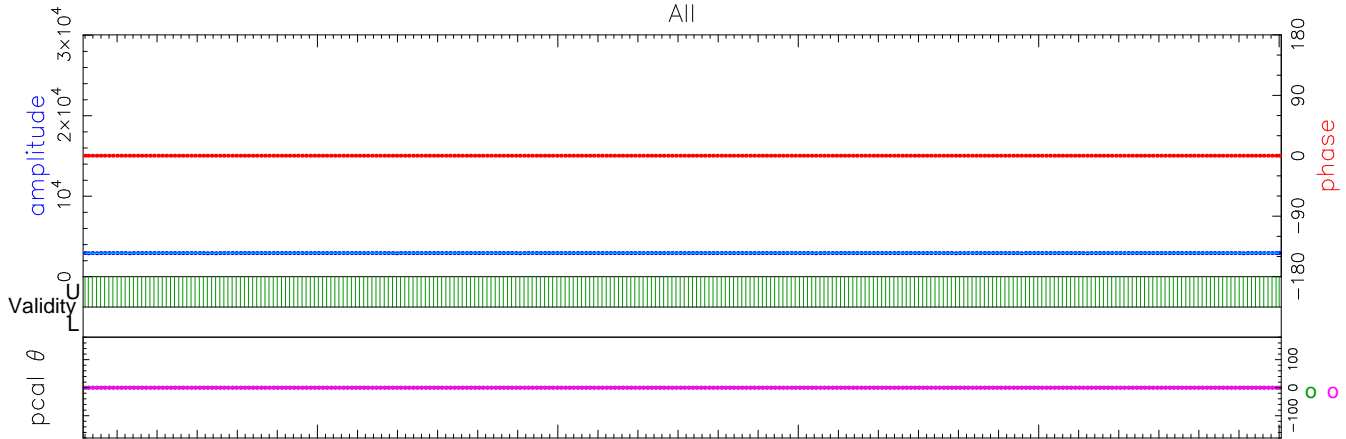
ph/seg (deg)	RMS 94.3	Theor. 124.1	Amplitude Search (2048X8)	1.192 +/- 0.151	1.067	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.7	216.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.503	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.181	1.181	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 136.7 el 80.3 pa -37.3 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 2128.864 815.239 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/np..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/np.W.140.1T5GR2



Fringe quality 5
SNR 72425.4
Int time 297.975
Amp 10021.853
Phase 0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000004
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051924
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

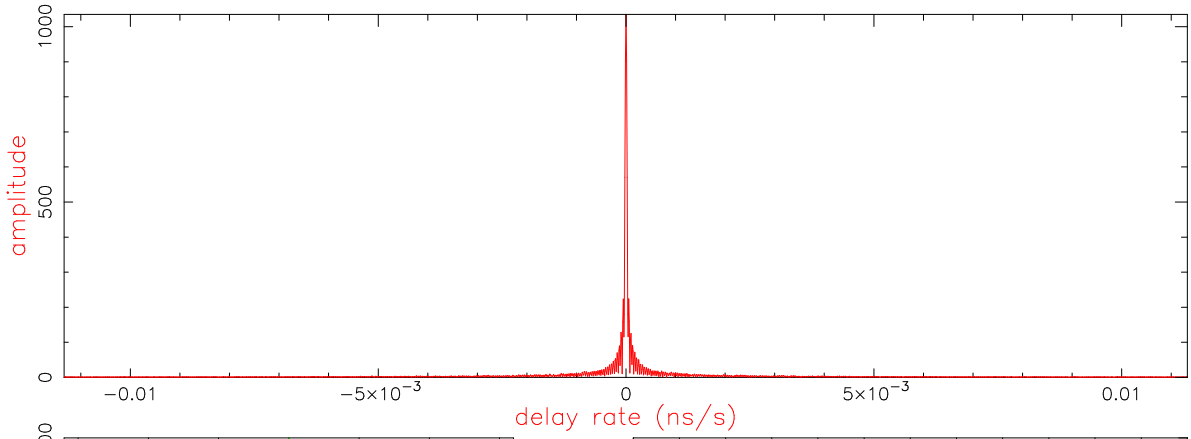


86227.00
0.1
2936.1
1537.0
U/L 583/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o W03UR
o W03UR

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)	-4.35487724263E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.35488E-06	+/-	6.3E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	4.70169008085E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.70169E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.1	+/-	0.0

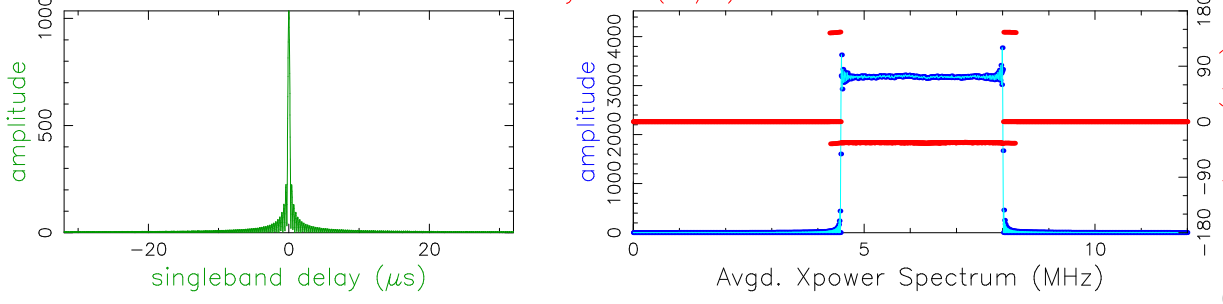
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10021.854 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10021.854 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2936.090 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
o: az 85.2 el 61.8 pa -74.4 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/oo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/oo.W.112.1T5GR2 simultaneous interpolator



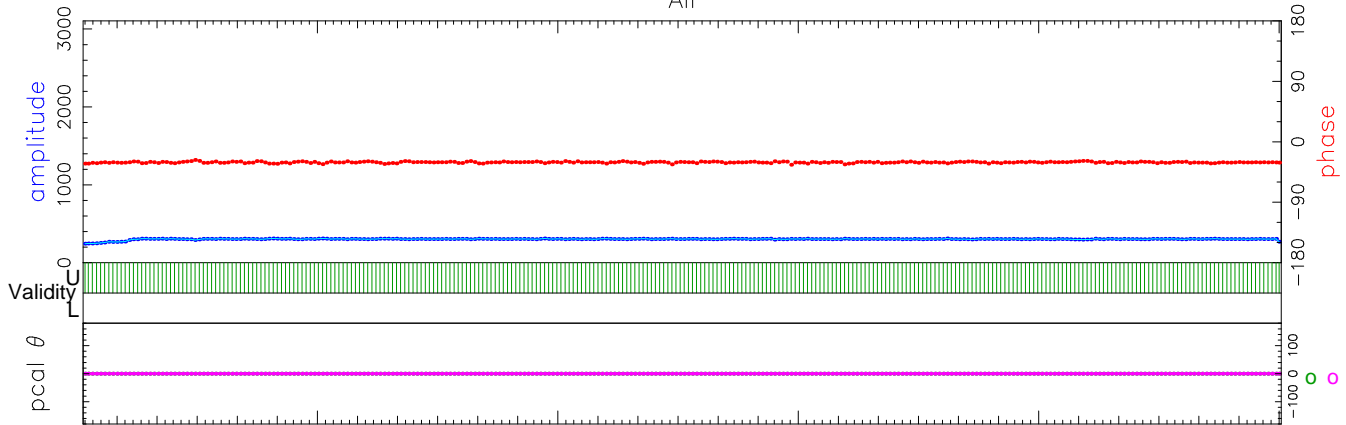
Fringe quality 5

SNR 7481.4
Int time 297.975
Amp 1035.235
Phase -79.9
PFD 0.0e+00
Delays (us)
SBD 0.001568
MBD -0.000004
Fringe rate (Hz)
0.000011
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

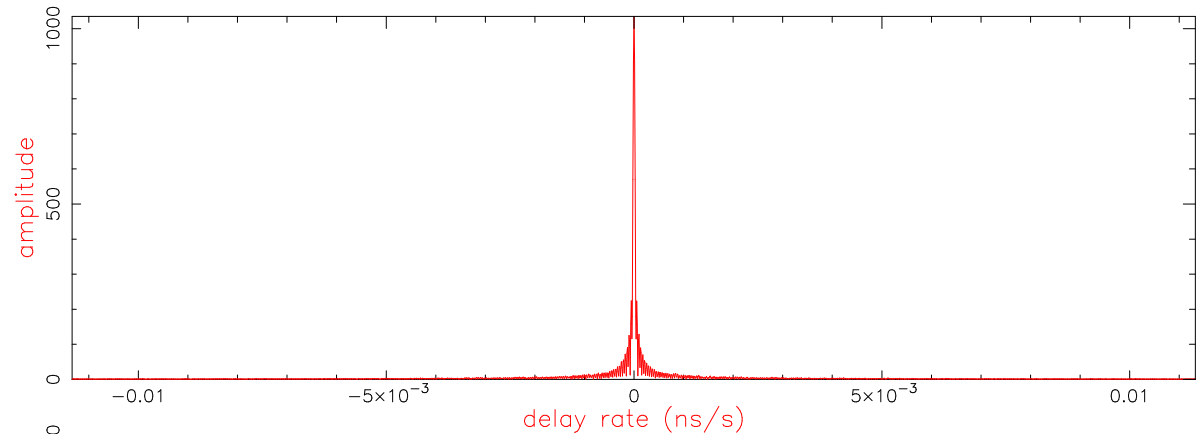


86227.00
-30.5
303.3
1537.1
U/L 583/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UL
o W03UR

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

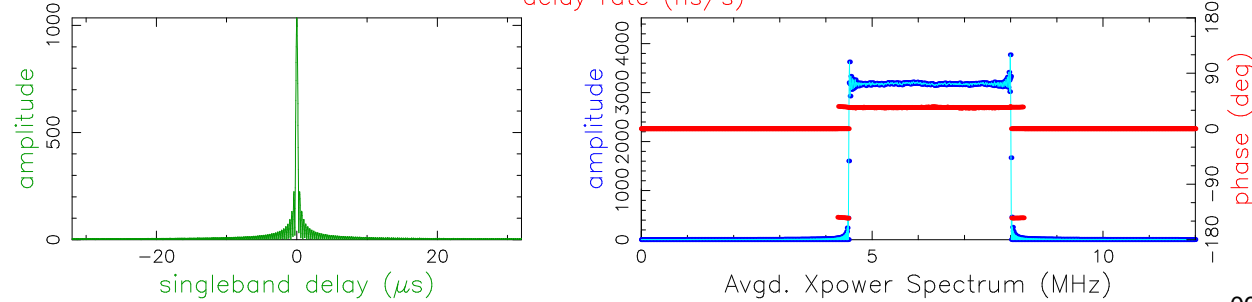
Group delay (usec)(sbd)	1.57285022093E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.38197E-06	+/-	6.1E-06
Sband delay (usec)	1.56800000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.56800E-03	+/-	6.1E-06
Phase delay (usec)	-9.84790137847E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.84790E-07	+/-	4.9E-10
Delay rate (us/s)	1.28957486764E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.28957E-10	+/-	2.9E-12
Total phase (deg)	-79.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-79.9	+/-	0.0

ph/seg (deg) 1.0 0.1 Amplitude 1035.235 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 303.320 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1035.183 Sample rate(MISamp/s): 24 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 85.2 el 61.8 pa -74.4 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/oo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/oo.W.131.1T5GR2



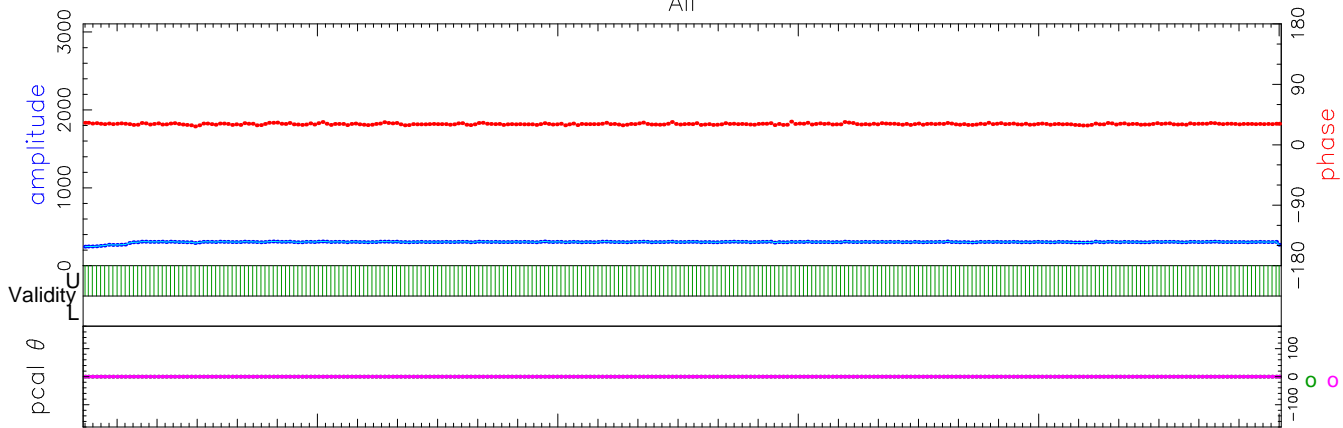
Fringe quality 5

SNR 7481.4
Int time 297.975
Amp 1035.235
Phase 79.9
PFD 0.0e+00
Delays (us)
SBD -0.001568
MBD -0.000006
Fringe rate (Hz)
-0.000011
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
30.9
303.3
1536.9
U/L 583/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UR
o W03UL

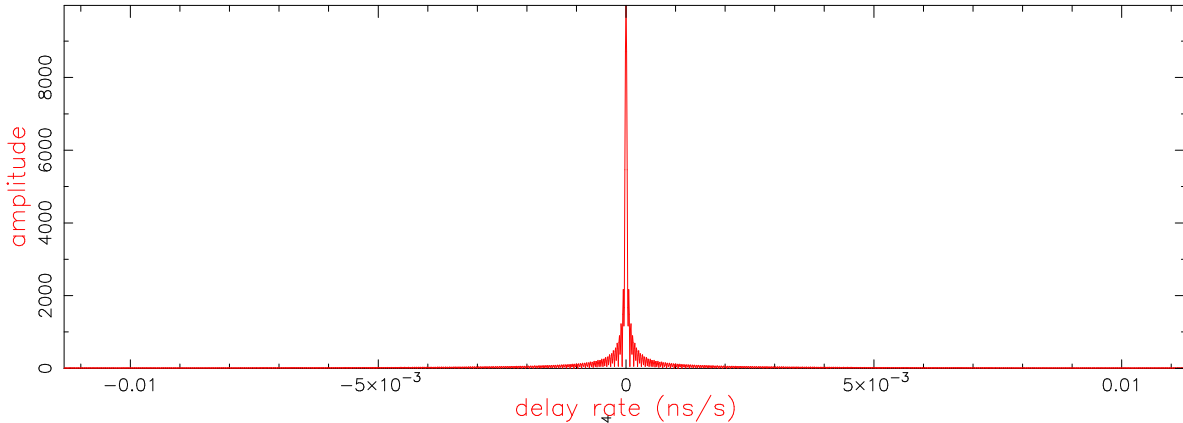
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.57140366706E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.76877E-06	+/-	6.1E-06
Sband delay (usec)	-1.56800000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.56800E-03	+/-	6.1E-06
Phase delay (usec)	9.95749261836E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.95749E-07	+/-	4.9E-10
Delay rate (us/s)	-1.28957486764E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.28957E-10	+/-	2.9E-12
Total phase (deg)	79.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	79.9	+/-	0.0

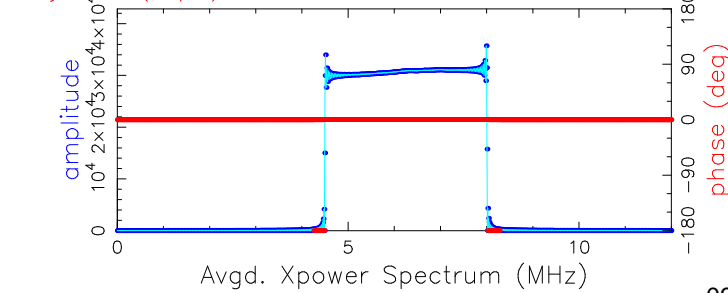
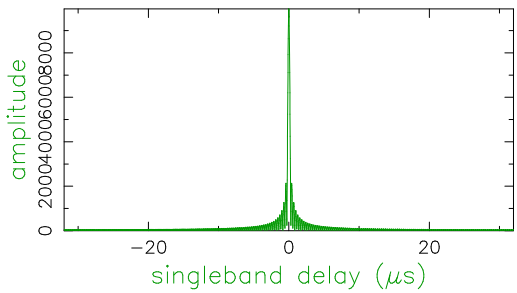
ph/seg (deg)	1.0	Theor.	0.1	Amplitude	1035.235 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.2	Search (2048X8)	1035.165	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	303.320	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1035.183	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

o: az 85.2 el 61.8 pa -74.4 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Fringe quality 5

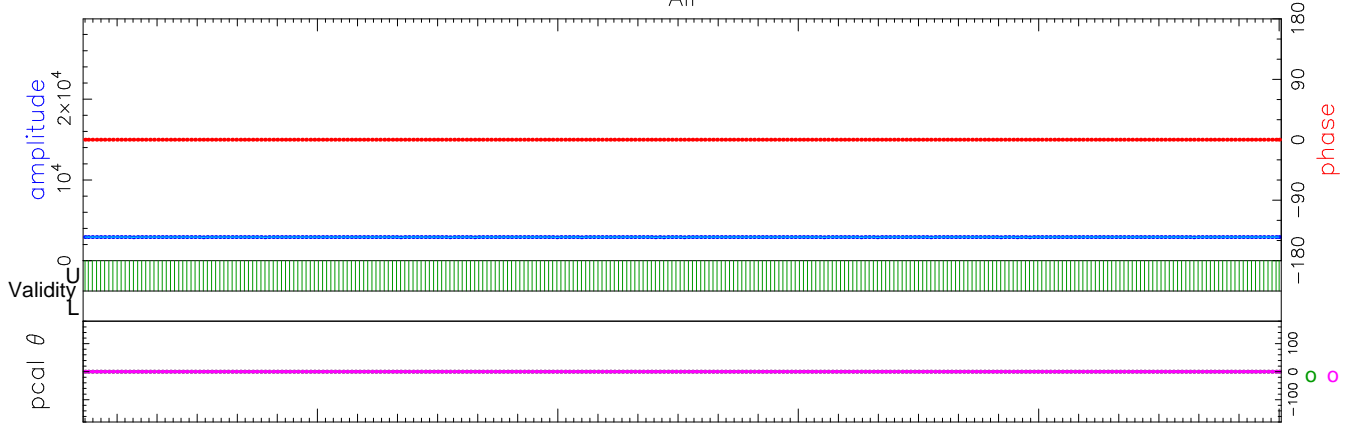


SNR 72139.8
Int time 297.975
Amp 9982.324
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051922
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2924.5
1537.0
U/L 583/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UL
o W03UL

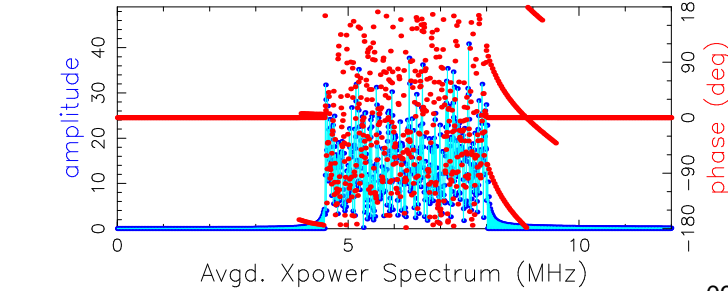
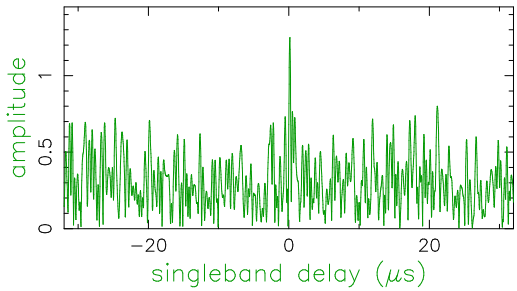
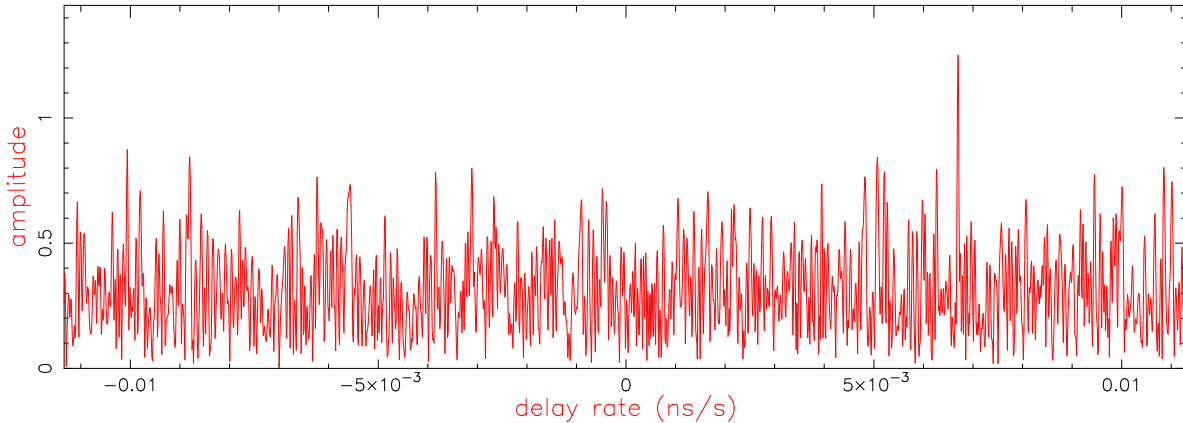
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/-	6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-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	9982.324 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	9982.324	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2924.509	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9982.324	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

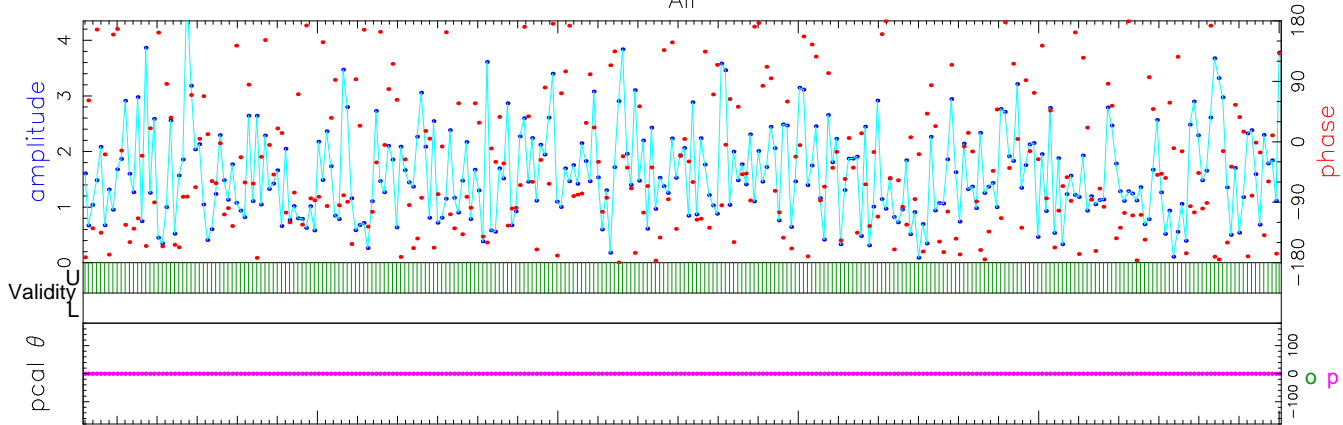
o: az 85.2 el 61.8 pa -74.4 o: az 85.2 el 61.8 pa -74.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/oo..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/oo.W.97.1T5GR2

Fringe quality 8



SNR 9.0
Int time 297.975
Amp 1.450
Phase -162.3
PFD 2.8e-12
Delays (us)
SBD 0.140028
MBD 0.000004
Fringe rate (Hz)
0.575961
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051923
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-96.7
0.4
1543.7
U/L 583/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UL

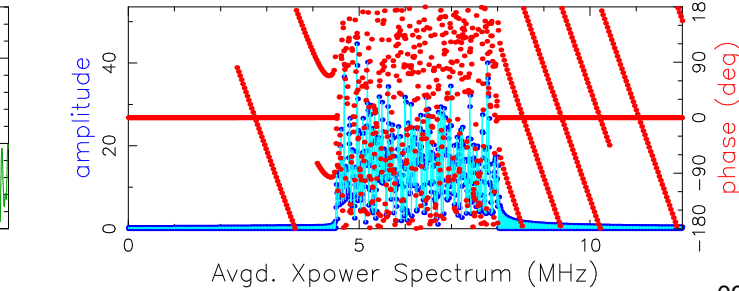
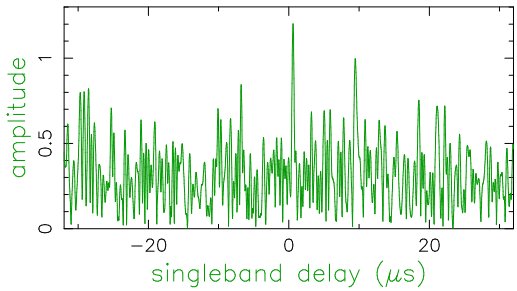
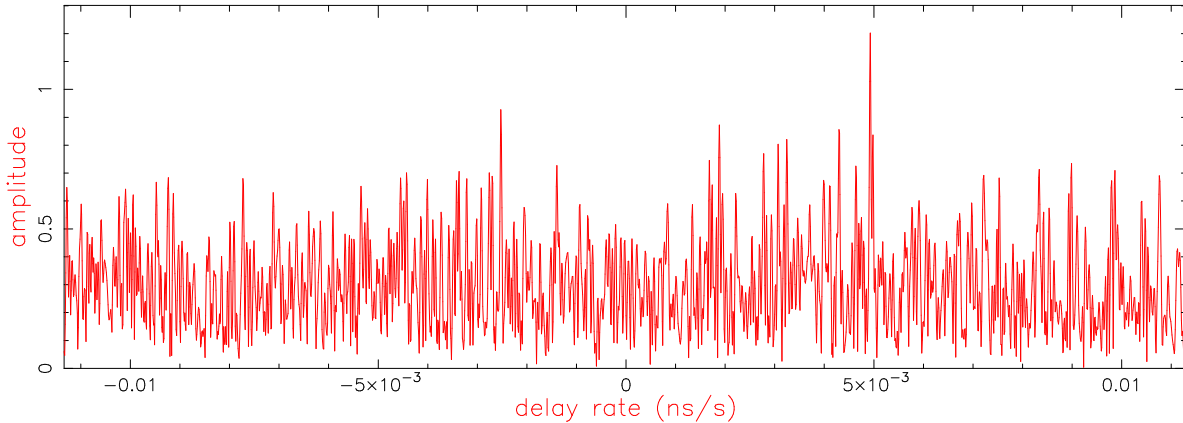
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.18851513292E+03	Apriori delay (usec)	-1.18865516301E+03	Resid mbdelay (usec)	4.35042E-06	+/-	5.1E-03
Sband delay (usec)	-1.18851513501E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	1.40028E-01	+/-	5.1E-03
Phase delay (usec)	-1.18865516613E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.11797E-06	+/-	4.1E-07
Delay rate (us/s)	1.42400530213E-01	Apriori rate (us/s)	1.42393843873E-01	Resid rate (us/s)	6.68634E-06	+/-	2.4E-09
Total phase (deg)	-69.4	Apriori accel (us/s/s)	8.94987734501E-06	Resid phase (deg)	-162.3	+/-	12.7

ph/seg (deg)	89.1	Theor.	108.3	Amplitude	1.450 +/- 0.160	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.0	Search (2048X8)	1.240	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.664	Inc. frq. avg.	1.440	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.440	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				Dr window (ns/s)	-0.011 0.011	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				ion window (TEC)	0.00 0.00		ion window (TEC) 0.00 0.00

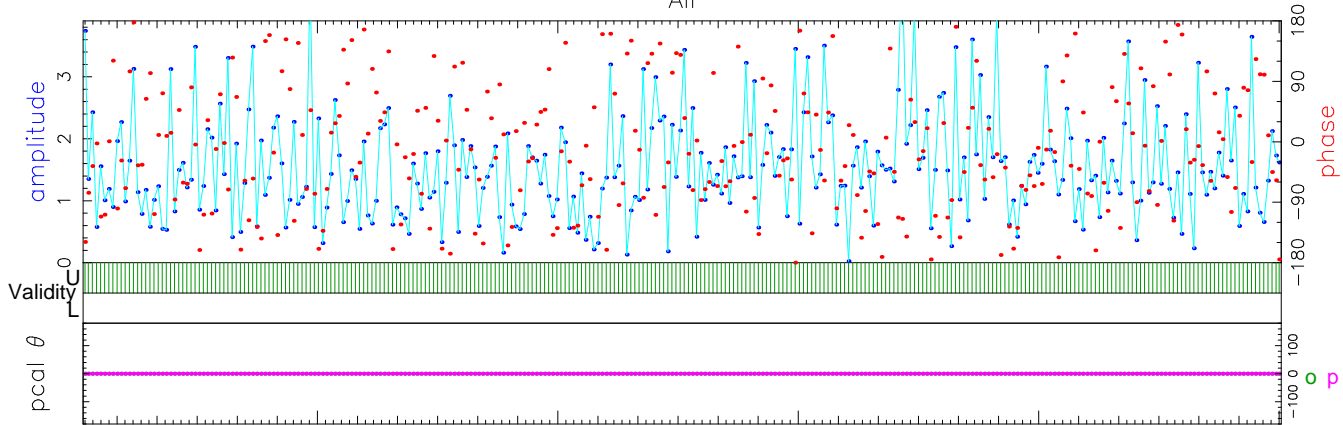
o: az 85.2 el 61.8 pa -74.4 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -980.392 788.855 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/op..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/op.W.108.1T5GR2

Fringe quality 8



SNR 8.7
Int time 297.975
Amp 1.301
Phase -39.8
PFD 6.3e-11
Delays (us)
SBD 0.598079
MBD 0.000006
Fringe rate (Hz)
0.424163
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-28.2
0.4
1565.7
U/L 583/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UR

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

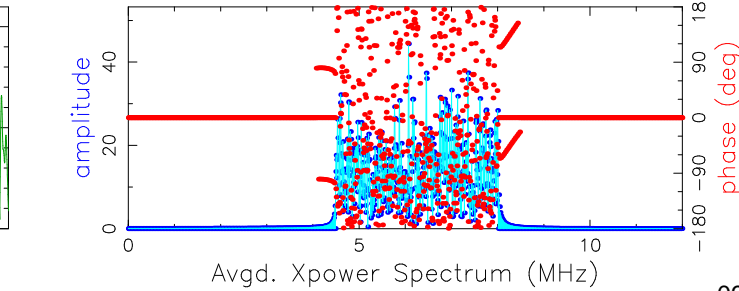
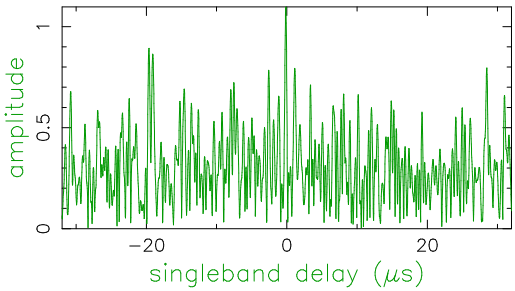
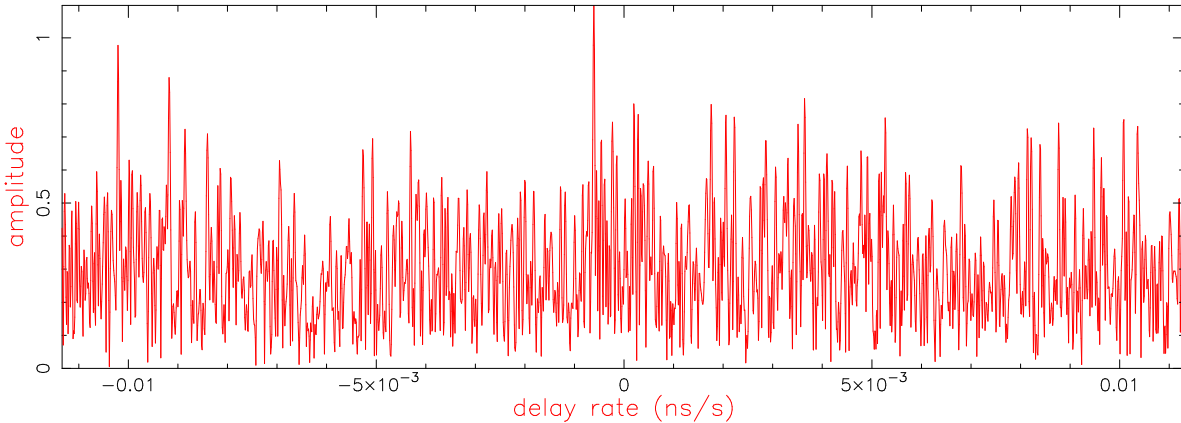
Group delay (usec)(sbd)	-1.18805708483E+03	Apriori delay (usec)	-1.18865516301E+03	Resid mbdelay (usec)	5.65707E-06	+/-	5.3E-03
Sband delay (usec)	-1.18805708435E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	5.98079E-01	+/-	5.3E-03
Phase delay (usec)	-1.18865516392E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.09662E-07	+/-	4.3E-07
Delay rate (us/s)	1.42398767980E-01	Apriori rate (us/s)	1.42393843873E-01	Resid rate (us/s)	4.92411E-06	+/-	2.5E-09
Total phase (deg)	-307.0	Apriori accel (us/s/s)	8.94987734501E-06	Resid phase (deg)	-39.8	+/-	13.2

ph/seg (deg)	RMS 91.0	Theor. 112.7	Amplitude Search (2048X8)	1.301 +/- 0.150	1.185	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	77.3	196.6	Interp.	0.000	1.185	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.574	1.185	Bits/sample: 2x2	SampCntNorm: enabled	
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.292	1.185	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011	
				Data rate(Mb/s): 48				ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite				simultaneous interpolator

o: az 85.2 el 61.8 pa -74.4 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -980.392 788.855

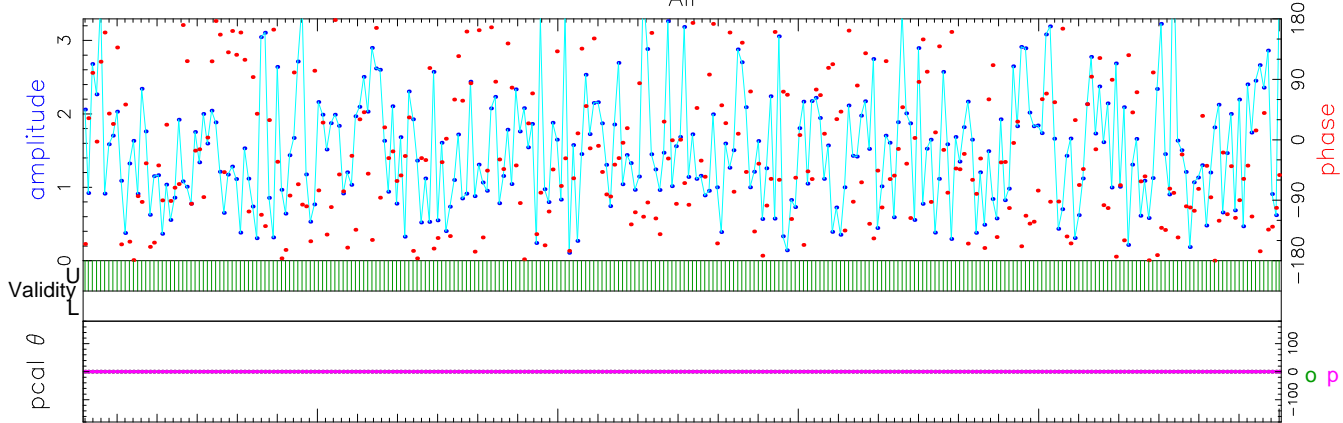
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/op..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/op.W.121.1T5GR2

Fringe quality 8



SNR 7.9
Int time 297.975
Amp 1.098
Phase 117.1
PFD 3.6e-08
Delays (us)
SBD -0.144175
MBD -0.000007
Fringe rate (Hz)
-0.052675
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-78.2
0.3
1530.1
U/L 583/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UR

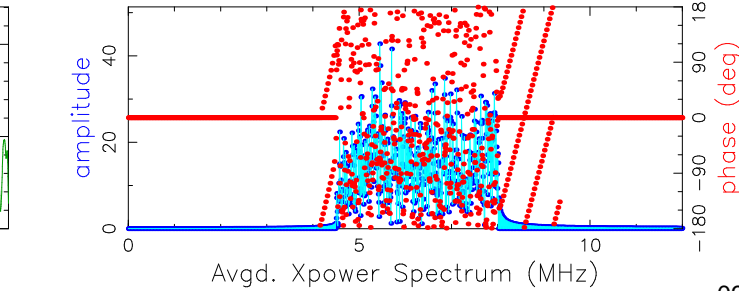
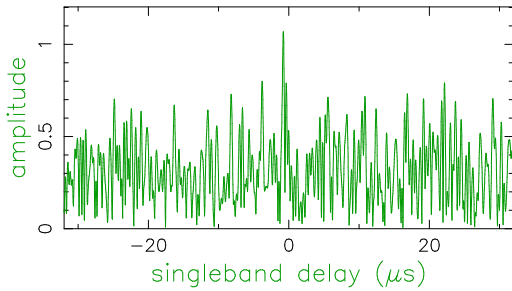
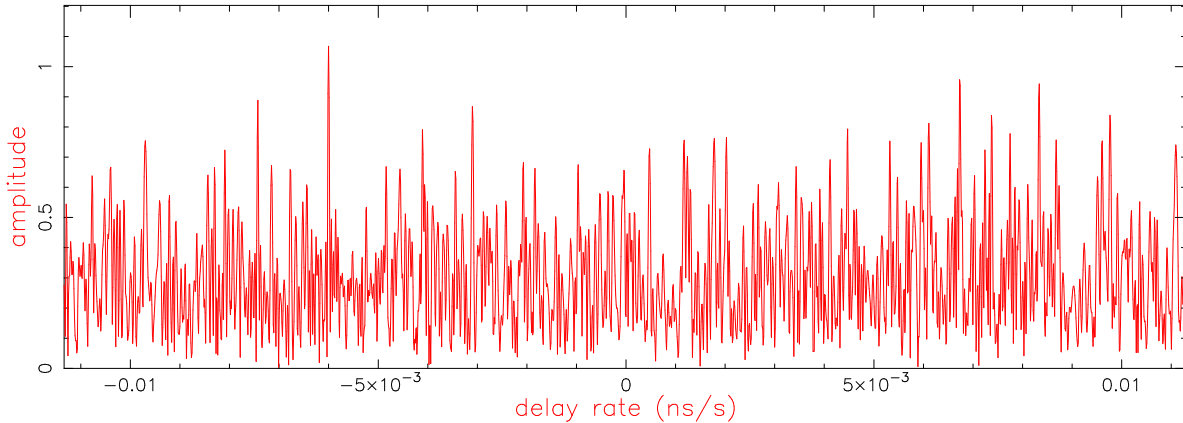
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.18879933622E+03	Apriori delay (usec)	-1.18865516301E+03	Resid mbdelay (usec)	-7.22938E-06	+/- 5.8E-03
Sband delay (usec)	-1.18879933768E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-1.44175E-01	+/- 5.8E-03
Phase delay (usec)	-1.18865516553E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.52114E-06	+/- 4.7E-07
Delay rate (us/s)	1.42393232369E-01	Apriori rate (us/s)	1.42393843873E-01	Resid rate (us/s)	-6.11504E-07	+/- 2.7E-09
Total phase (deg)	210.0	Apriori accel (us/s/s)	8.94987734501E-06	Resid phase (deg)	117.1	+/- 14.5

ph/seg (deg)	RMS 91.4	Theor. 123.5	Amplitude Search (2048X8)	1.098 +/- 0.139	1.081	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	83.1	215.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.460	0.460	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.089	1.089	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011	
						Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

o: az 85.2 el 61.8 pa -74.4 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) -980.392 788.855 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/op..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/op.W.132.1T5GR2

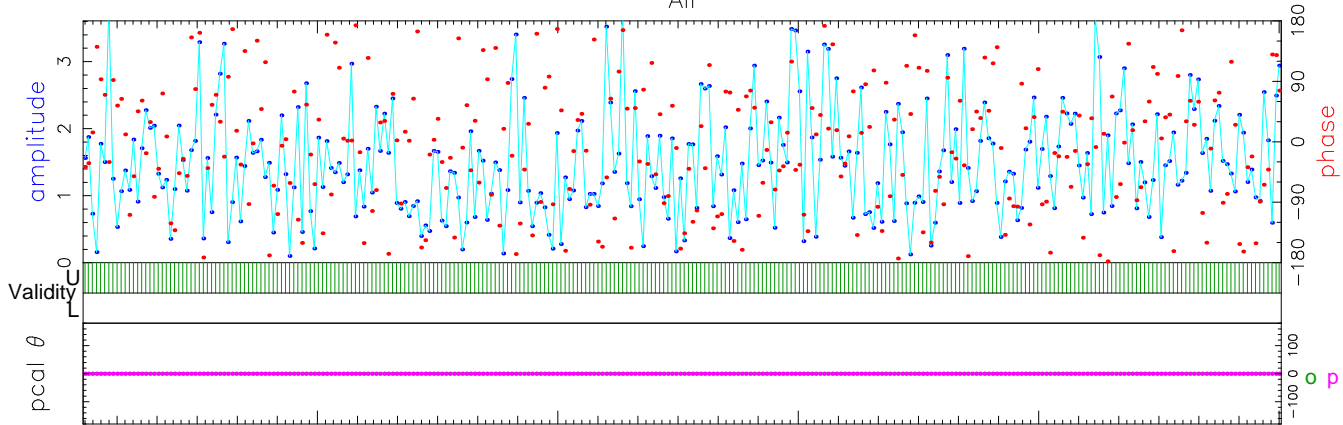
Fringe quality 8



SNR 7.7
Int time 297.975
Amp 1.203
Phase 6.3
PFD 1.7e-07
Delays (us)
SBD -0.781715
MBD -0.000005
Fringe rate (Hz)
-0.515921
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010001.54
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
3.3
0.4
1499.5
U/L 583/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UL

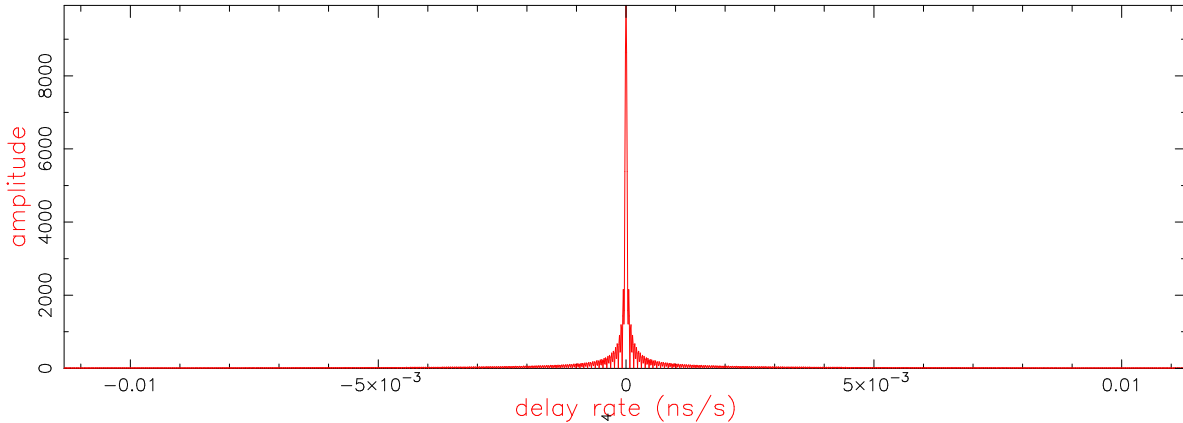
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.18943687224E+03	Apriori delay (usec)	-1.18865516301E+03	Resid mbdelay (usec)	-5.11905E-06	+/-	5.9E-03
Sband delay (usec)	-1.18943687768E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-7.81715E-01	+/-	5.9E-03
Phase delay (usec)	-1.18865516291E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.06497E-07	+/-	4.8E-07
Delay rate (us/s)	1.42387854542E-01	Apriori rate (us/s)	1.42393843873E-01	Resid rate (us/s)	-5.98933E-06	+/-	2.8E-09
Total phase (deg)	99.2	Apriori accel (us/s/s)	8.94987734501E-06	Resid phase (deg)	6.3	+/-	14.8

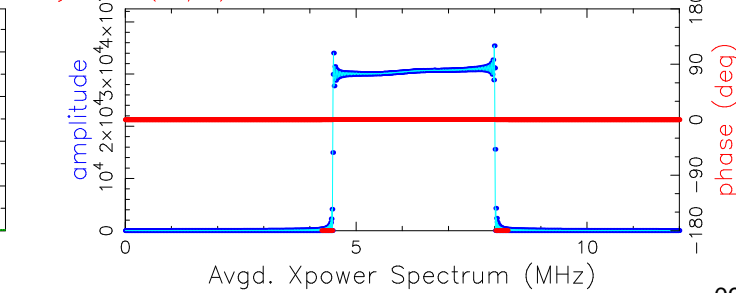
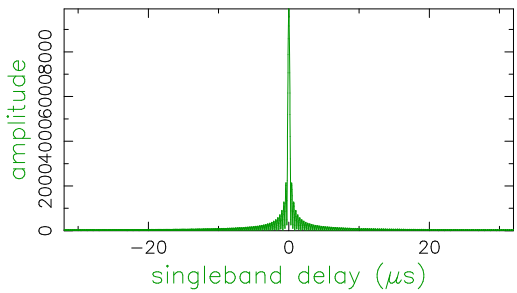
ph/seg (deg)	RMS 92.6	Theor. 126.7	Amplitude Search (2048X8)	1.203 +/- 0.156	1.063	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.6	221.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.486	0.486	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.9	Inc. frq. avg.	1.191	1.191	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
o: az 85.2 el 61.8 pa -74.4		p: az 82.7 el 69.8 pa -83.8		u,v (fr/asec) -980.392 788.855		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0013/op..1T5GR2		Output file: /Exps/c211d/v1/LINES1/1234/No0013/op.W.139.1T5GR2		ion window (TEC) 0.00 0.00	

simultaneous interpolator

Fringe quality 5

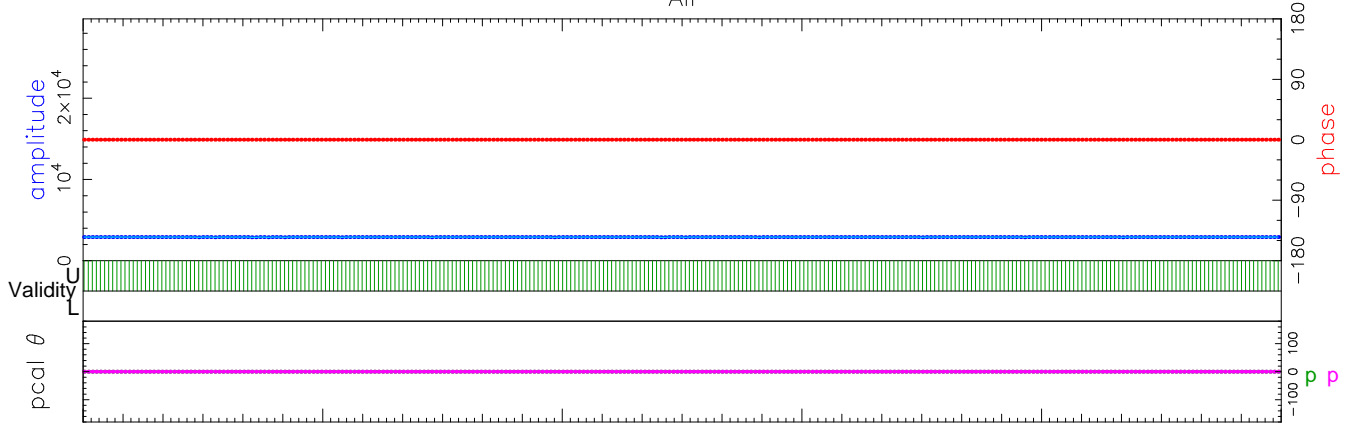


SNR 71969.2
Int time 299.974
Amp 9925.489
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051925
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2907.9
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UL

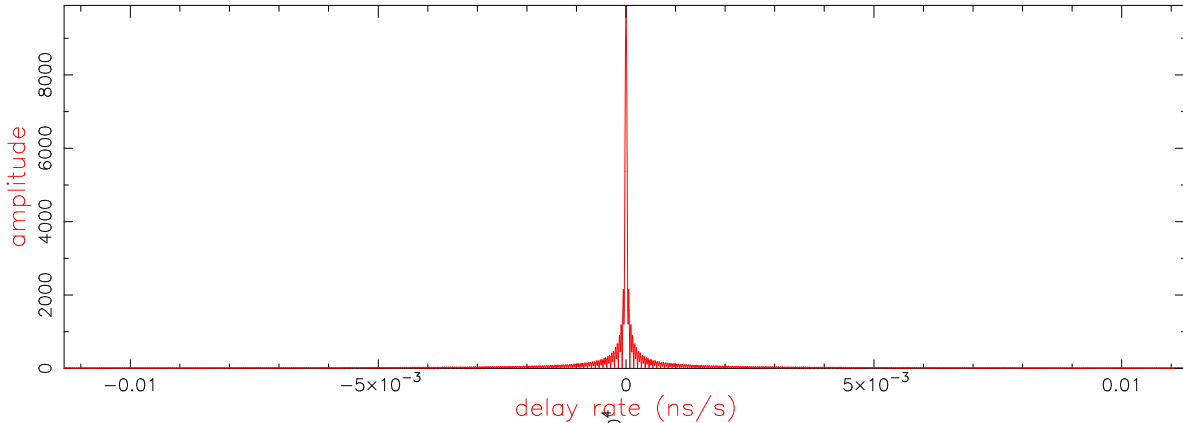
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/-	6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

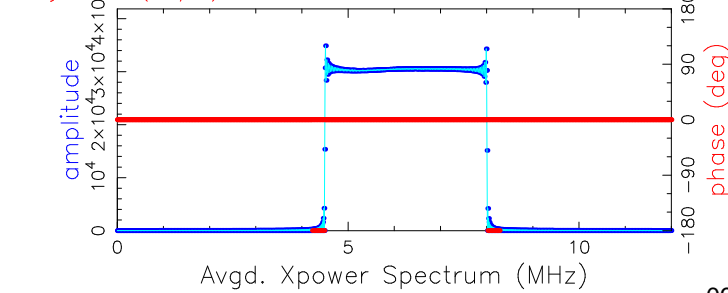
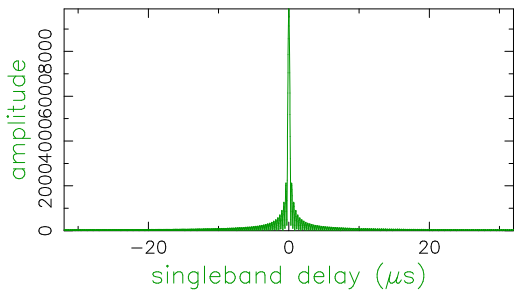
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9925.489 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9925.489	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2907.858	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9925.489	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 82.7 el 69.8 pa -83.8 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/pp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/pp.W.122.1T5GR2

Fringe quality 5

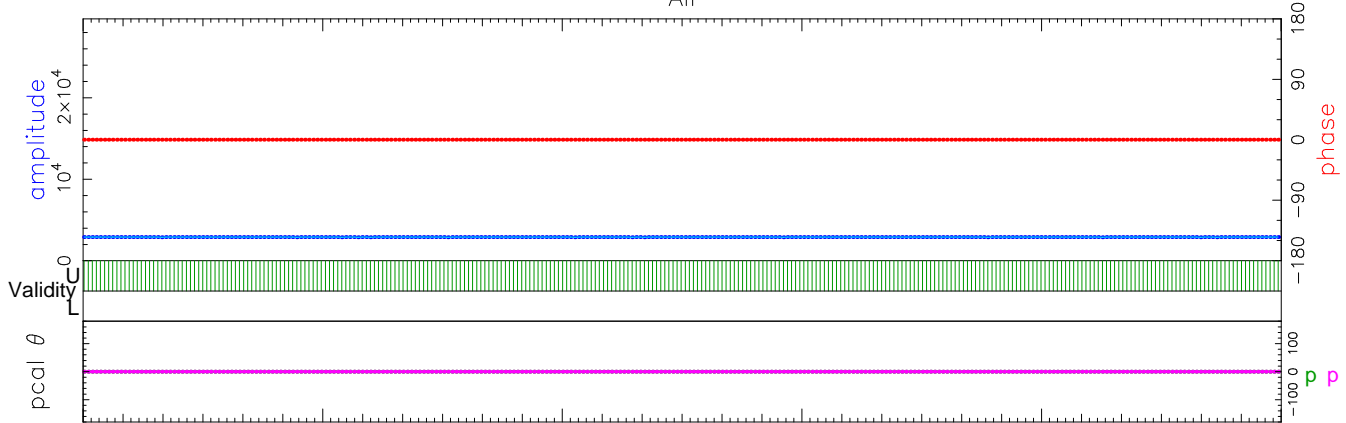


SNR 71769.0
Int time 299.974
Amp 9897.881
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



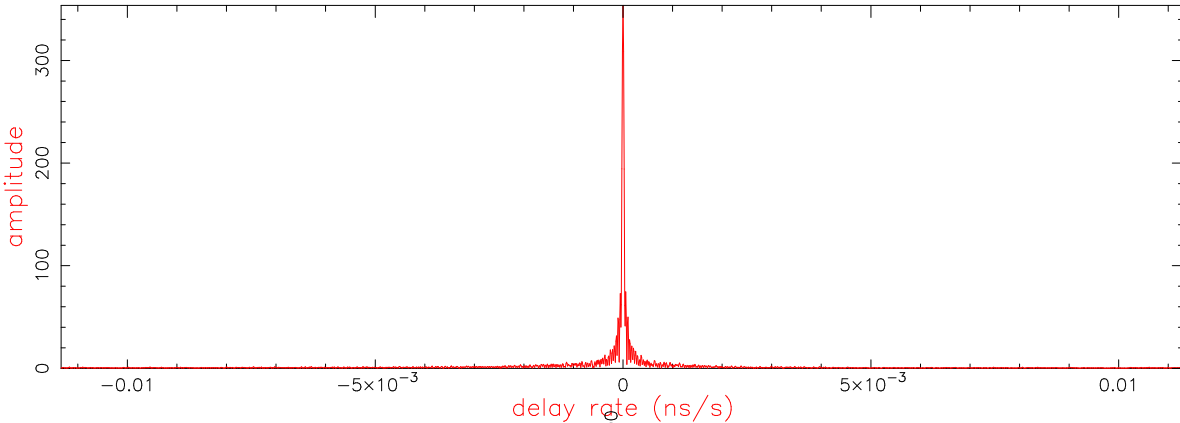
86227.00
0.2
2899.8
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p W03UR

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

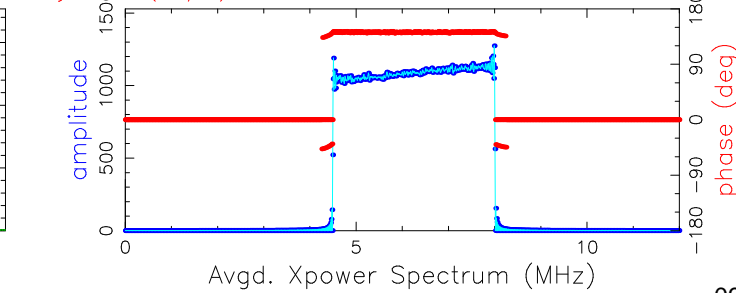
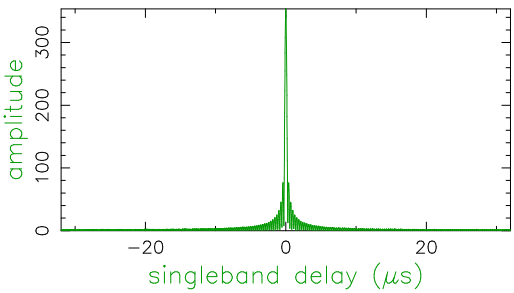
Group delay (usec)(sbd)	5.65391350737E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.94338E-06	+/-	6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	6.41669986427E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.41670E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

RMS Theor. Amplitude 9897.881 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X8) 9897.881 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 70.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 2899.770 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
amp/frq (%) 70.7 0.0 Inc. frq. avg. 9897.881 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
p: az 82.7 el 69.8 pa -83.8 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Fringe quality 5

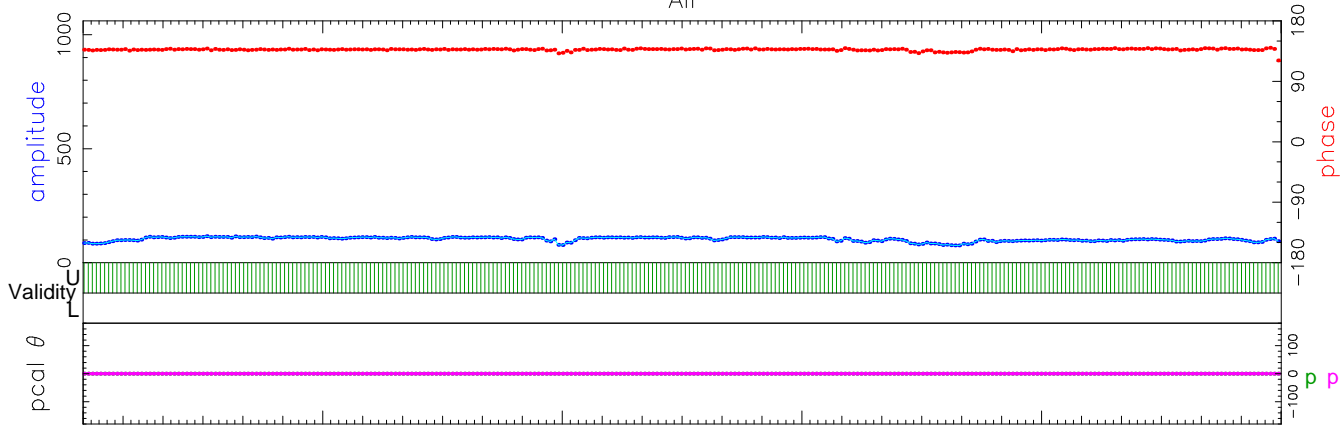


SNR 2564.4
Int time 299.974
Amp 353.665
Phase 205.1
PFD 0.0e+00
Delays (us)
SBD -0.002175
MBD -0.000007
Fringe rate (Hz)
-0.000024
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051926
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
137.2
103.6
1536.9
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UR

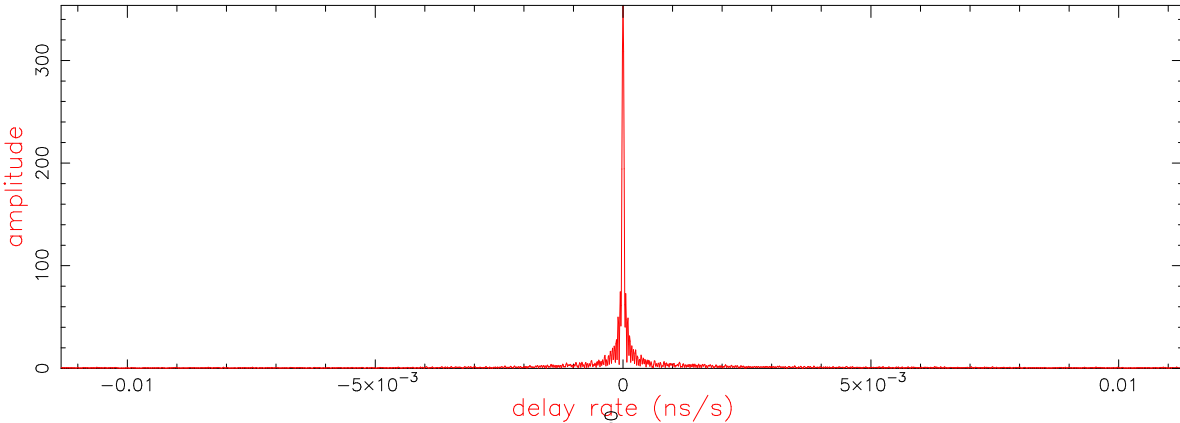
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.17562062927E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.92637E-06	+/-	1.8E-05
Sband delay (usec)	-2.17466666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-2.17467E-03	+/-	1.8E-05
Phase delay (usec)	4.42480770724E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.42481E-06	+/-	1.4E-09
Delay rate (us/s)	-2.84131605453E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.84132E-10	+/-	8.3E-12
Total phase (deg)	205.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	205.1	+/-	0.0

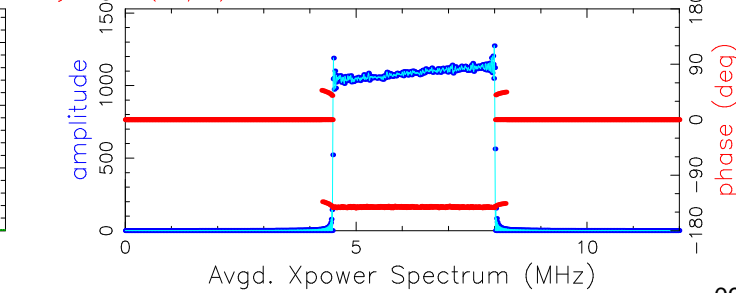
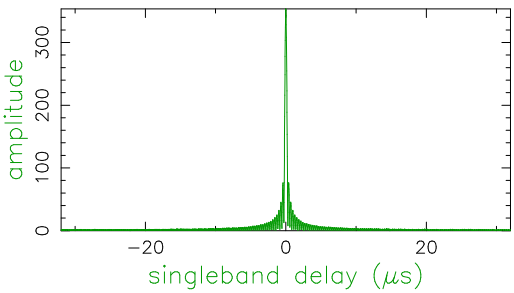
ph/seg (deg)	1.6	Theor.	0.4	Amplitude	353.665 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	353.600	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	103.636	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	353.631	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 82.7 el 69.8 pa -83.8 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/pp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/pp.W.133.1T5GR2

Fringe quality 5

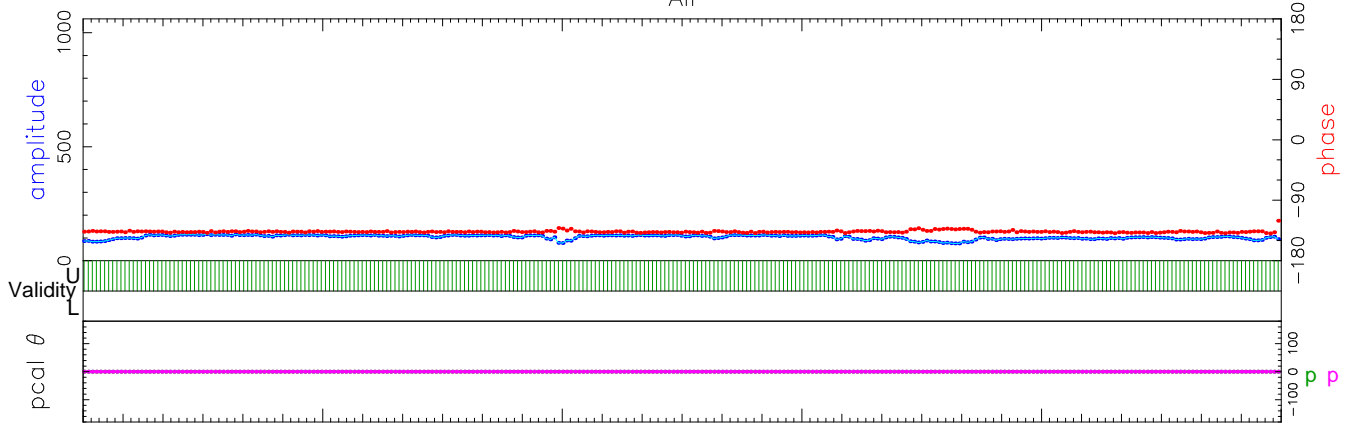


SNR 2564.4
Int time 299.974
Amp 353.665
Phase -205.1
PFD 0.0e+00
Delays (us)
SBD 0.002175
MBD -0.000005
Fringe rate (Hz)
0.000024
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 010000.00
Stop 010500.03
FRT 010230.00
Corr/FF/build
2021:228:034942
2021:228:051927
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-136.8
103.6
1537.1
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p 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)	2.17558305403E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.70850E-06	+/-	1.8E-05
Sband delay (usec)	2.1746666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.17467E-03	+/-	1.8E-05
Phase delay (usec)	-4.41224626113E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.41225E-06	+/-	1.4E-09
Delay rate (us/s)	2.84131605453E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.84132E-10	+/-	8.3E-12
Total phase (deg)	-205.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-205.1	+/-	0.0

ph/seg (deg)	1.6	Theor.	0.4	Amplitude	353.665 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	353.600	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.	103.636	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	353.631	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 82.7 el 69.8 pa -83.8 p: az 82.7 el 69.8 pa -83.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0013/pp..1T5GR2 Output file: /Exps/c211d/v1/LINES1/1234/No0013/pp.W.142.1T5GR2