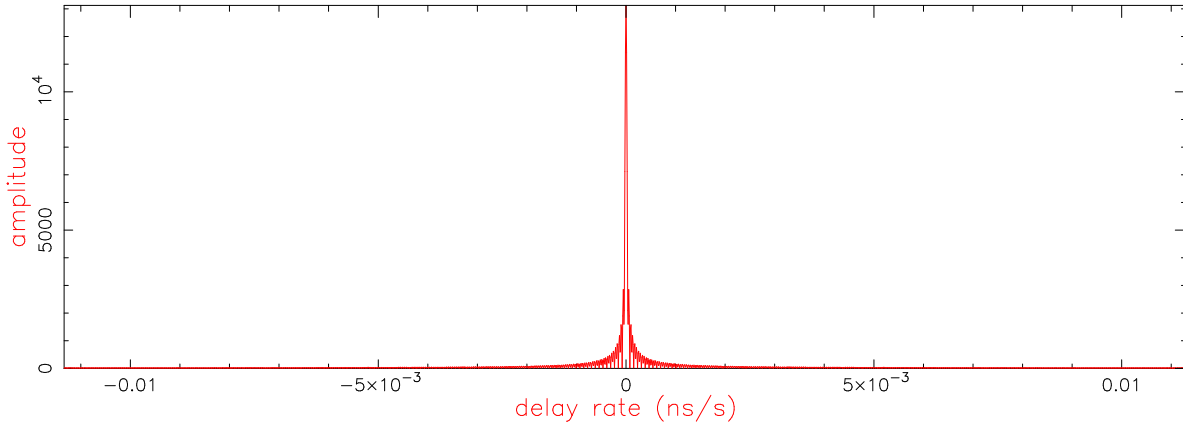
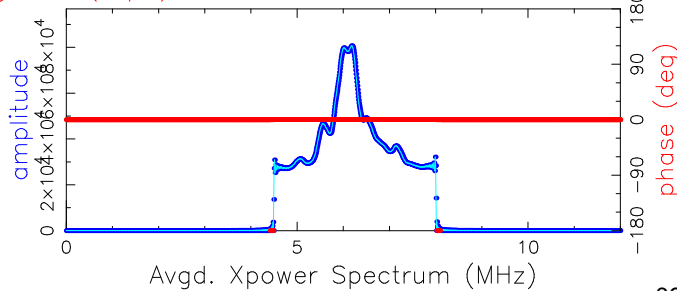
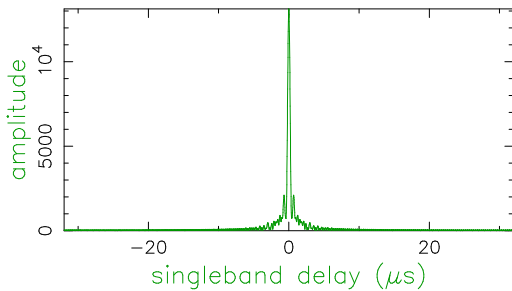


Fringe quality 5

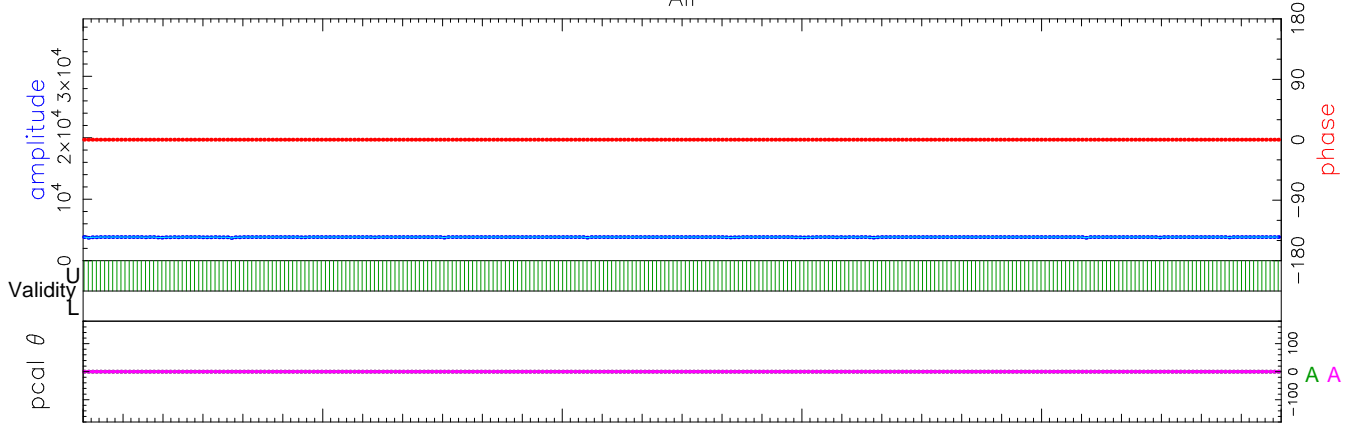


SNR 95164.5  
Int time 299.978  
Amp 13124.313  
Phase -0.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD -0.000007  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



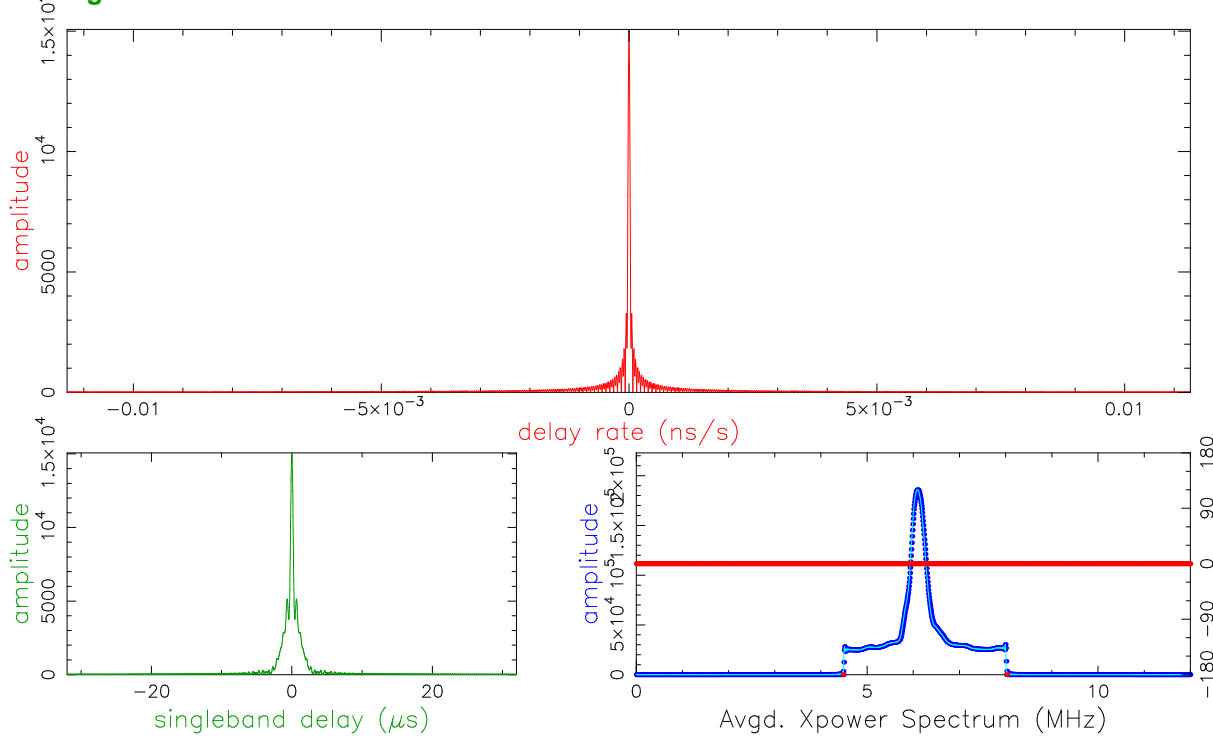
86227.00  
0.2  
3845.0  
1537.0  
U/L 586/0  
A 0  
A 0  
A:A 0:0  
A:A 0:0  
A 1000  
A 1000  
A W03UX  
A W03UX

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

Group delay (usec)(sbd)	4.35432057244E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24297E-06	+/- 4.8E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 4.8E-07
Phase delay (usec)	7.81978952005E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.81979E-09	+/- 3.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.2E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

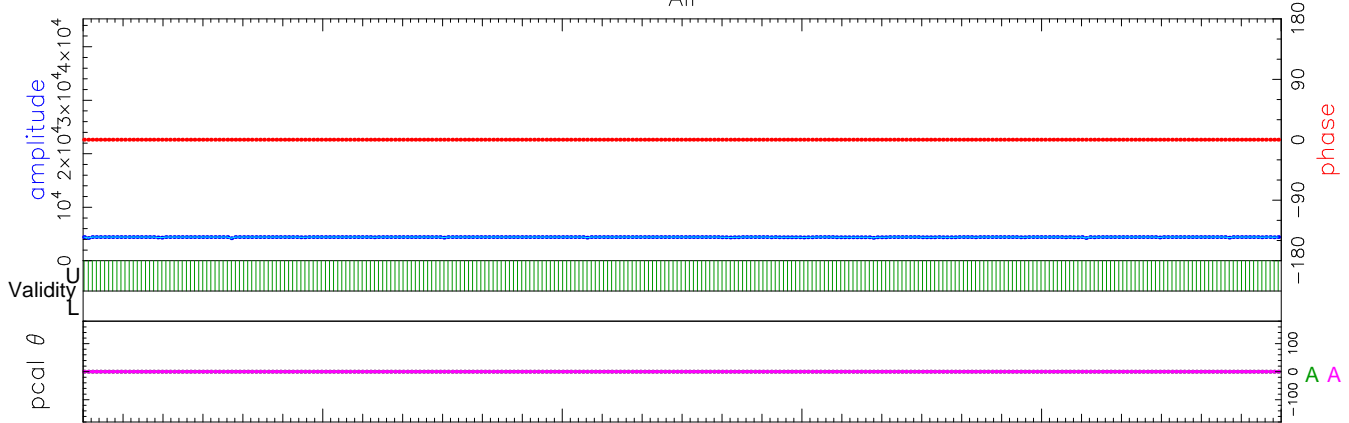
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	13124.313 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	13124.313	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3845.013	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	13124.312	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 311.0 el 41.2 pa 135.0    A: az 311.0 el 41.2 pa 135.0    u,v (fr/asec) 0.000 0.000    simultaneous interpolator  
Control file: cf\_1234\_gmva\_line    Input file: /Exps/c211d/v1/LINES1/1234/No0021/AA..1T5H2H    Output file: /Exps/c211d/v1/LINES1/1234/No0021/AA.W.1.1T5H2H



Fringe quality 5  
SNR 109304.4  
Int time 299.982  
Amp 15074.291  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
0.1  
4416.3  
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

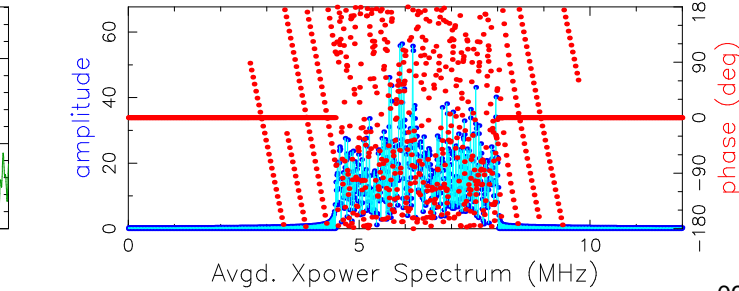
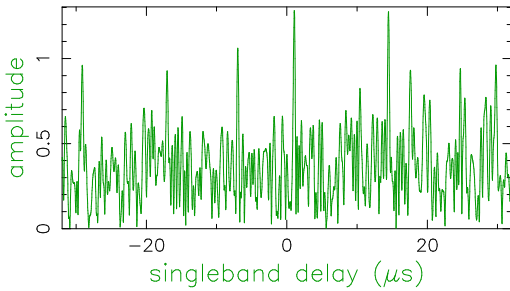
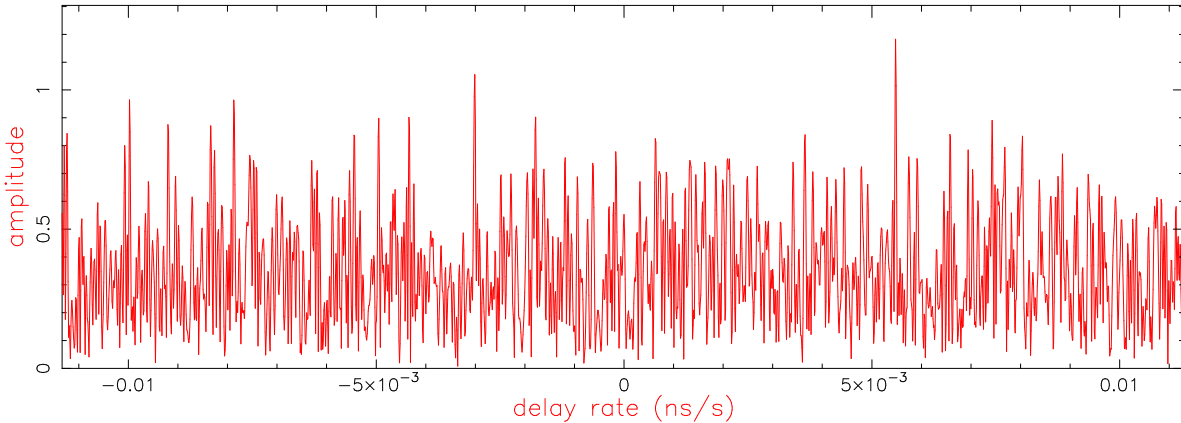
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.41277094182E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.41277E-06	+/-	4.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.2E-07
Phase delay (usec)	4.76419430681E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.76419E-09	+/-	3.4E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.0E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	15074.291 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	15074.291	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.	4416.296	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	15074.291	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

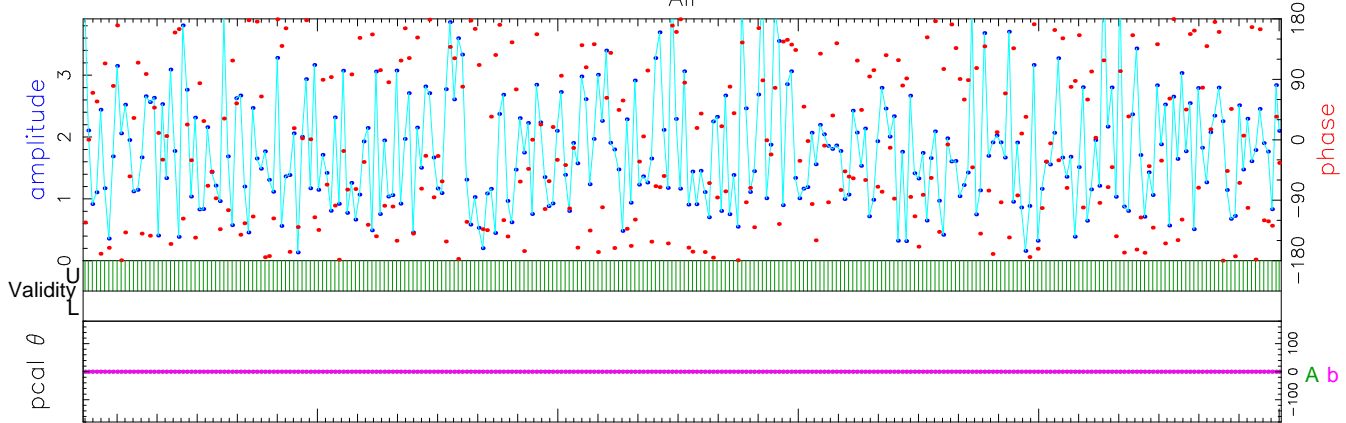
A: az 311.0 el 41.2 pa 135.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/AA..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/AA.W.5.1T5H2H

Fringe quality 8



SNR 8.5  
Int time 297.974  
Amp 1.304  
Phase -156.9  
PFD 2.2e-10  
Delays (us)  
SBD 1.000000  
MBD 0.000007  
Fringe rate (Hz)  
0.471977  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-157.3  
0.4  
1588.1  
U/L 583/0  
A 0  
b 0  
A:b 0:0  
A:b 0:0  
A 1000  
b 1000  
A W03UX  
b W03UL

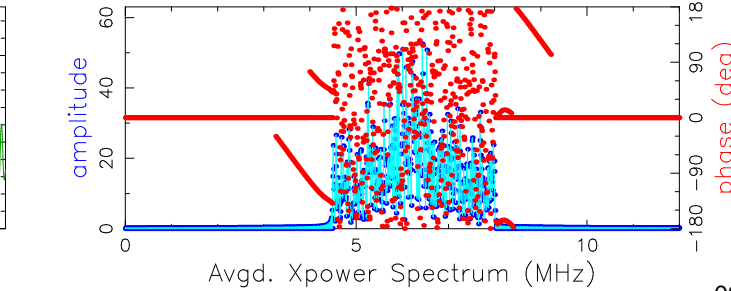
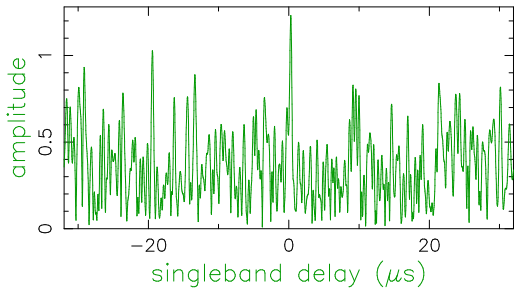
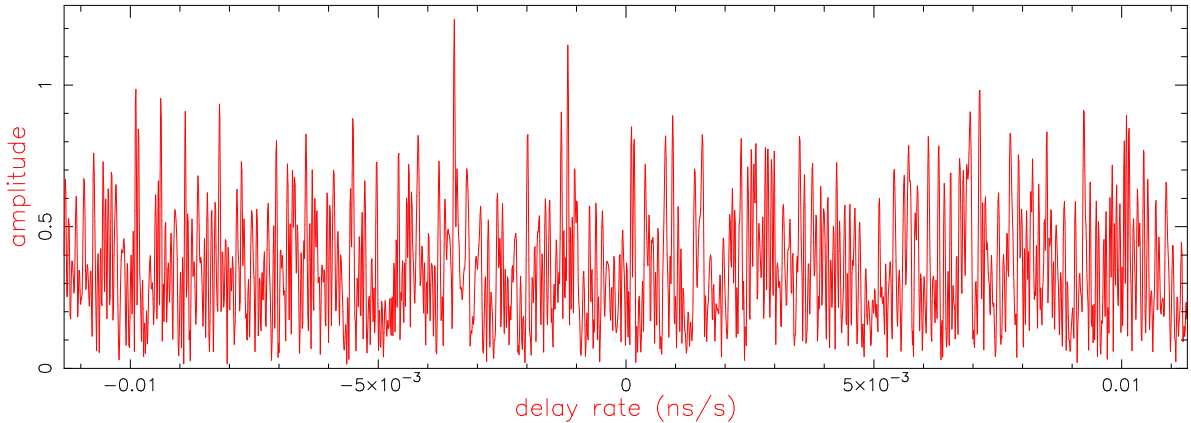
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.68775130806E+03	Apriori delay (usec)	-4.68875130369E+03	Resid mbdelay (usec)	7.22711E-06	+/-	5.4E-03
Sband delay (usec)	-4.68775130369E+03	Apriori clock (usec)	-2.1046172E+03	Resid sbdelay (usec)	1.00000E+00	+/-	5.4E-03
Phase delay (usec)	-4.68875130877E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-5.07252E-06	+/-	4.3E-07
Delay rate (us/s)	-1.10308466715E+00	Apriori rate (us/s)	-1.10309014634E+00	Resid rate (us/s)	5.47918E-06	+/-	2.5E-09
Total phase (deg)	-265.0	Apriori accel (us/s/s)	-1.13788982685E-05	Resid phase (deg)	-156.9	+/-	13.4

ph/seg (deg)	RMS 93.7	Theor. 114.6	Amplitude Search (2048X8)	1.304 +/- 0.153	1.181	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	95.1	200.0	Interp.	0.000	1.181	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.	0.661	1.181	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.295	1.181	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	

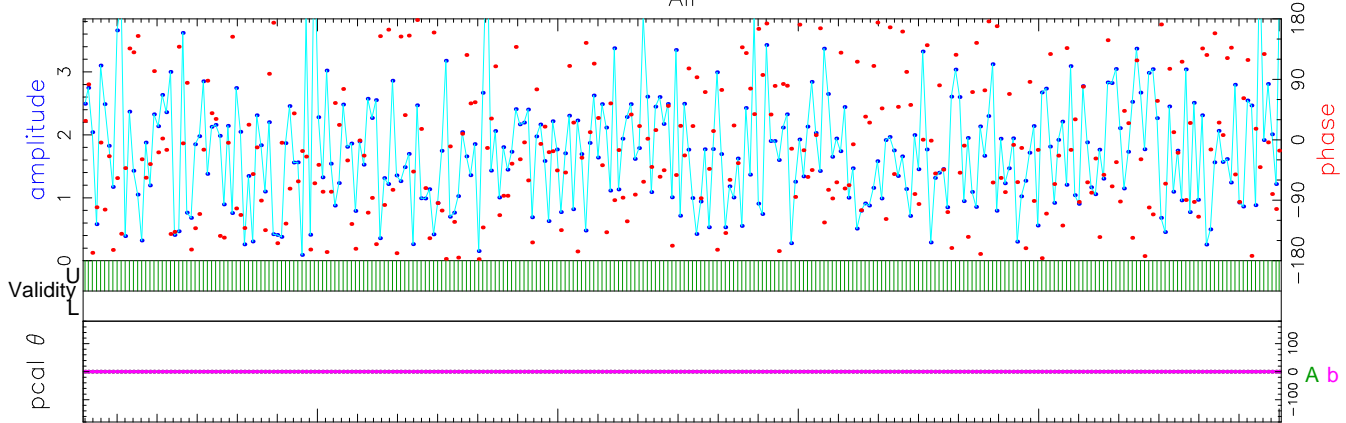
A: az 311.0 el 41.2 pa 135.0 b: az 153.8 el 50.7 pa -17.9 u,v (fr/asec) 6444.768 -10032.282 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ab..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ab.W.2.1T5H2H

Fringe quality 8



SNR 8.9  
Int time 297.974  
Amp 1.281  
Phase -159.6  
PFD 9.5e-12  
Delays (us)  
SBD 0.279293  
MBD -0.000007  
Fringe rate (Hz)  
-0.298469  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-52.0  
0.4  
1550.4  
U/L 583/0  
A 0  
b 0  
A:b 0:0  
A:b 0:0  
A 1000  
b 1000  
A W03UX  
b W03UR

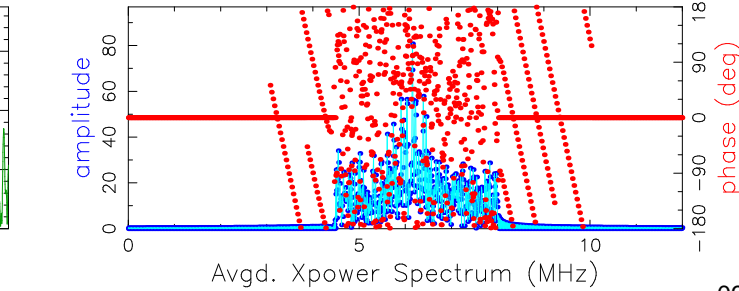
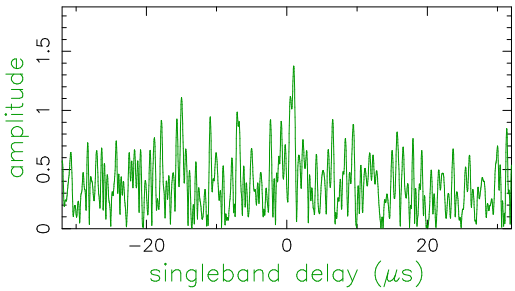
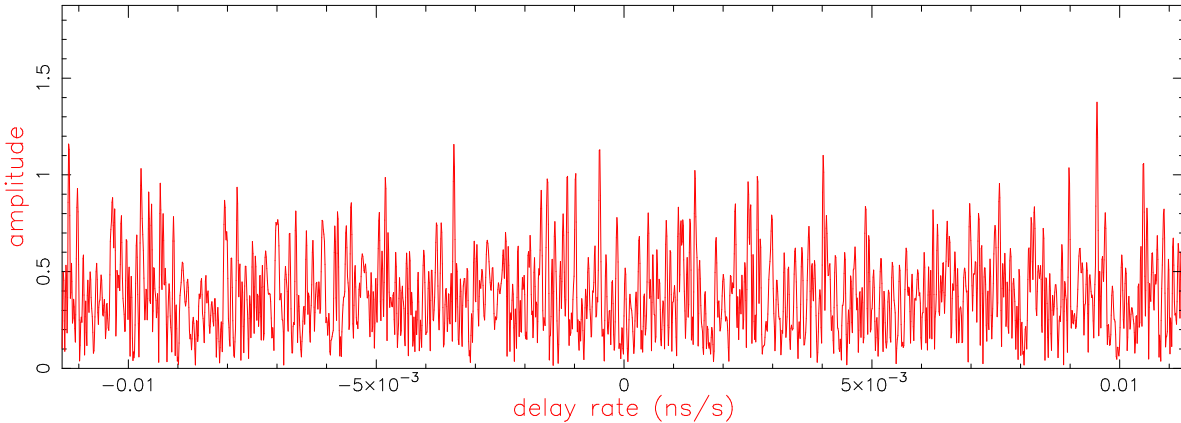
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.68847201276E+03	Apriori delay (usec)	-4.68875130369E+03	Resid mbdelay (usec)	-6.73821E-06	+/- 5.2E-03
Sband delay (usec)	-4.68847201036E+03	Apriori clock (usec)	-2.1046172E+03	Resid sbdelay (usec)	2.79293E-01	+/- 5.2E-03
Phase delay (usec)	-4.68875130537E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-1.67642E-06	+/- 4.1E-07
Delay rate (us/s)	-1.10309361126E+00	Apriori rate (us/s)	-1.10309014634E+00	Resid rate (us/s)	-3.46492E-06	+/- 2.4E-09
Total phase (deg)	-267.7	Apriori accel (us/s/s)	-1.13788982685E-05	Resid phase (deg)	-159.6	+/- 12.9

ph/seg (deg)	RMS 94.5	Theor. 109.9	Amplitude Search (2048X8)	1.281 +/- 0.144	1.224	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.1	191.9	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	6.4	Inc. seg. avg.	0.642	0.642	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.272	1.272	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	

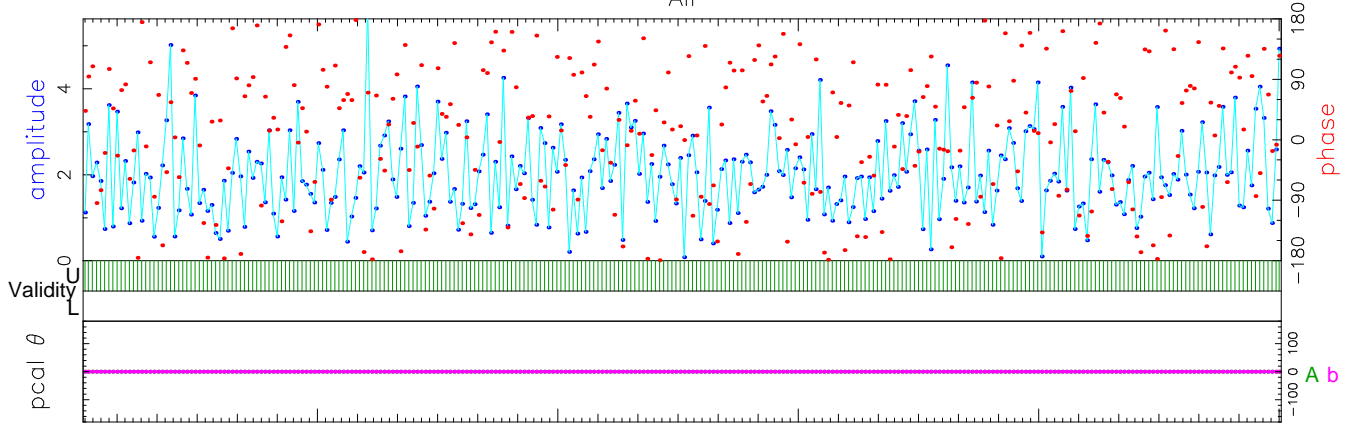
A: az 311.0 el 41.2 pa 135.0    b: az 153.8 el 50.7 pa -17.9    u,v (fr/asec) 6444.768 -10032.282    simultaneous interpolator  
Control file: cf\_1234\_gmva\_line    Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ab..1T5H2H    Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ab.W.25.1T5H2H

Fringe quality 8



SNR 9.9  
Int time 297.977  
Amp 1.876  
Phase -128.2  
PFD 5.3e-16  
Delays (us)  
SBD 0.983144  
MBD 0.000005  
Fringe rate (Hz)  
0.821164  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
63.6  
0.5  
1584.2  
U/L 583/0  
A 0  
b 0  
A:b 0:0  
A:b 0:0  
A 1000  
b 1000  
A W03UY  
b W03UL

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

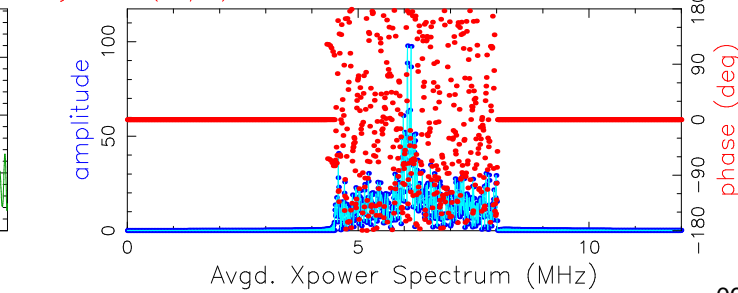
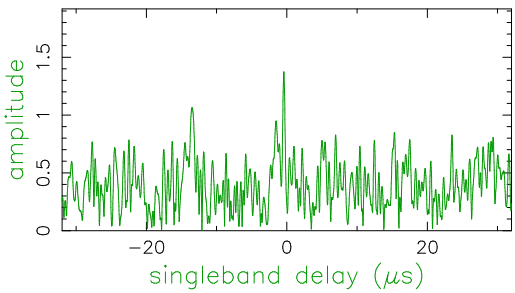
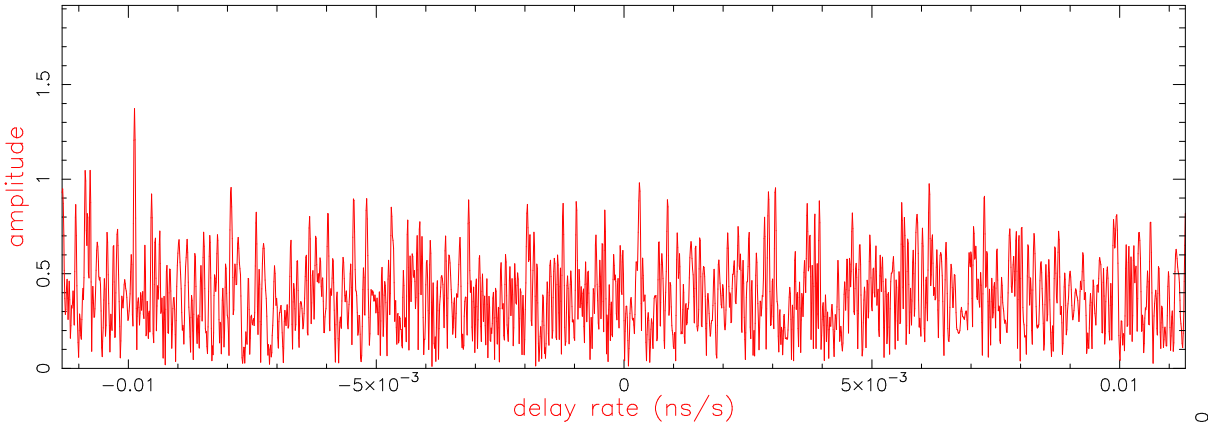
Group delay (usec)(sbd)	-4.68776816142E+03	Apriori delay (usec)	-4.68875130369E+03	Resid mbdelay (usec)	4.74255E-06	+/-	4.6E-03
Sband delay (usec)	-4.68776815969E+03	Apriori clock (usec)	-2.1046172E+03	Resid sbdelay (usec)	9.83144E-01	+/-	4.6E-03
Phase delay (usec)	-4.68875130164E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	2.05166E-06	+/-	3.7E-07
Delay rate (us/s)	-1.10308061344E+00	Apriori rate (us/s)	-1.10309014634E+00	Resid rate (us/s)	9.53289E-06	+/-	2.2E-09
Total phase (deg)	-236.3	Apriori accel (us/s/s)	-1.13788982685E-05	Resid phase (deg)	-128.2	+/-	11.5

ph/seg (deg)	RMS 93.1	Theor. 98.4	Amplitude Search (2048X8)	1.876 +/- 0.189	1.366	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.8	171.8	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	5.8	Inc. seg. avg.	1.113	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.1	Inc. frq. avg.	1.866	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
A: az 311.0 el 41.2 pa 135.0		b: az 153.8 el 50.7 pa -17.9		u,v (fr/asec) 6444.768 -10032.282		ion window (TEC) 0.00 0.00	

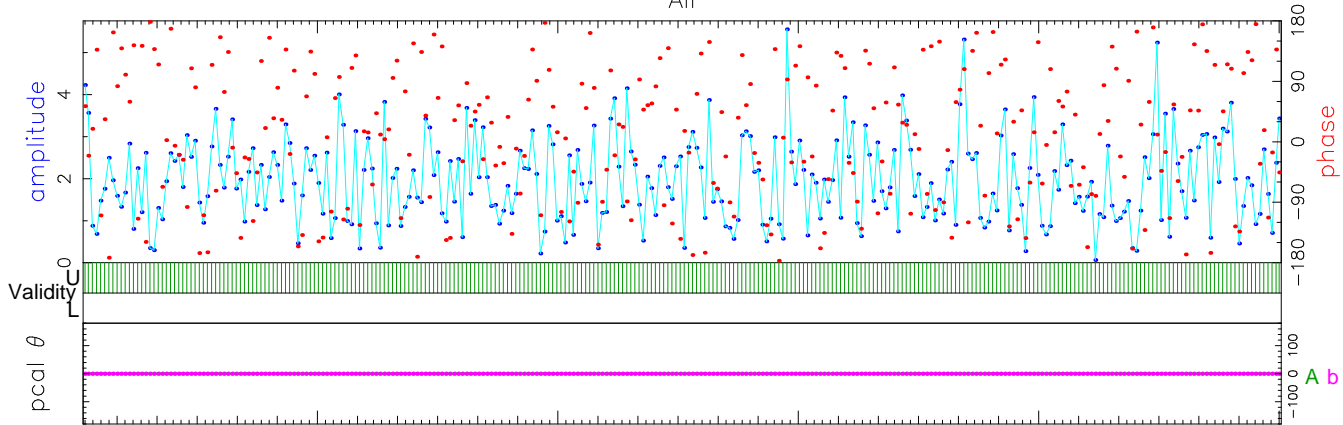
Fringe quality 8

SNR 9.9  
Int time 297.977  
Amp 1.919  
Phase 61.6  
PFD 5.9e-16  
Delays (us)  
SBD -0.425181  
MBD -0.000007  
Fringe rate (Hz)  
-0.849625  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
65.0  
0.6  
1516.6  
U/L 583/0  
A 0  
b 0  
A:b 0:0  
A:b 0:0  
A 1000  
b 1000  
A W03UY  
b W03UR

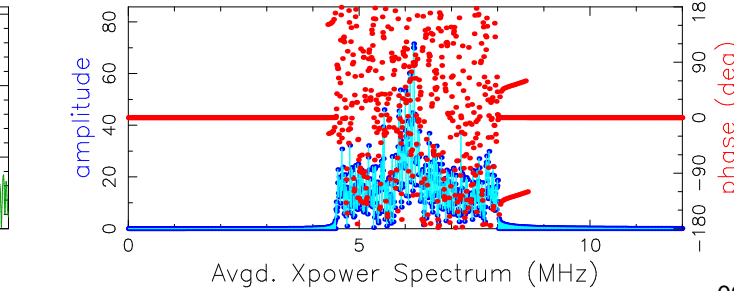
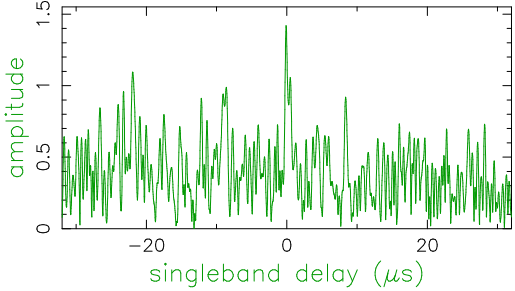
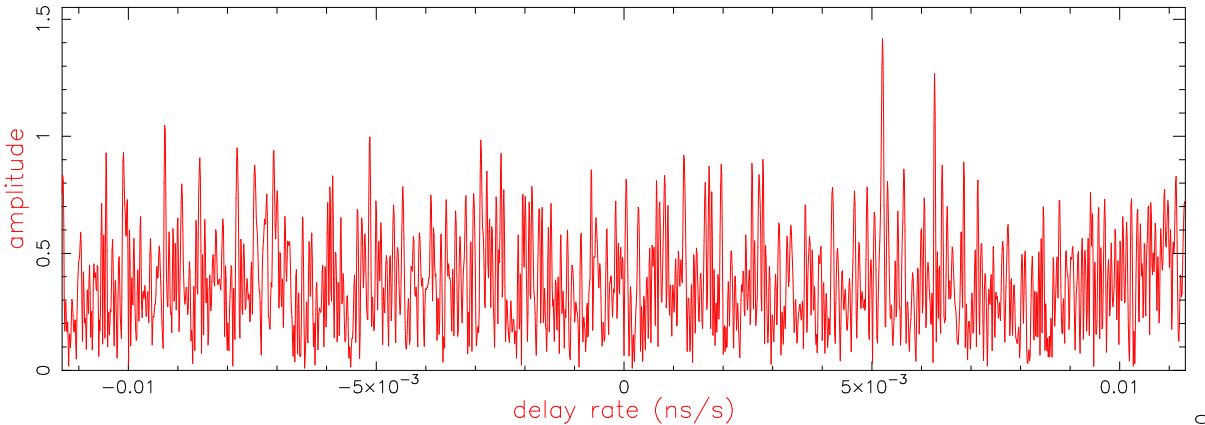
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.68917649072E+03	Apriori delay (usec)	-4.68875130369E+03	Resid mbdelay (usec)	-6.98213E-06	+/-	4.6E-03
Sband delay (usec)	-4.68917648503E+03	Apriori clock (usec)	-2.1046172E+03	Resid sbdelay (usec)	-4.25181E-01	+/-	4.6E-03
Phase delay (usec)	-4.68875130160E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	2.09548E-06	+/-	3.7E-07
Delay rate (us/s)	-1.10310000964E+00	Apriori rate (us/s)	-1.10309014634E+00	Resid rate (us/s)	-9.86330E-06	+/-	2.2E-09
Total phase (deg)	313.5	Apriori accel (us/s/s)	-1.13788982685E-05	Resid phase (deg)	61.6	+/-	11.5

ph/seg (deg)	RMS 97.3	Theor. 98.6	Amplitude Search (2048X8)	1.919 +/- 0.193	1.359	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.2	172.0	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	5.8	Inc. seg. avg.	1.103	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.1	Inc. frq. avg.	1.907	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
A: az 311.0 el 41.2 pa 135.0		b: az 153.8 el 50.7 pa -17.9		u,v (fr/asec) 6444.768 -10032.282		ion window (TEC) 0.00 0.00	

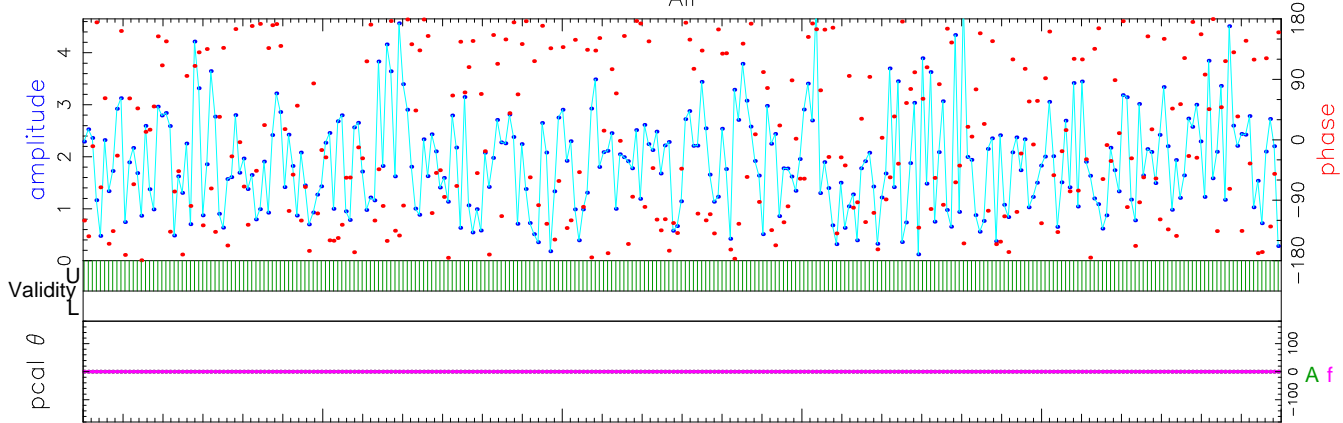
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ab..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ab.W.7.1T5H2H simultaneous interpolator

Fringe quality 7



SNR 10.3  
Int time 299.973  
Amp 1.551  
Phase 359.5  
PFD 1.5e-17  
Delays (us)  
SBD -0.097059  
MBD 0.000004  
Fringe rate (Hz)  
0.448888  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-160.4  
0.5  
1532.3  
U/L 586/0  
A 0  
f 0  
A:f 0:0  
A:f 0:0  
A 1000  
f 1000  
A W03UY  
f W03UR

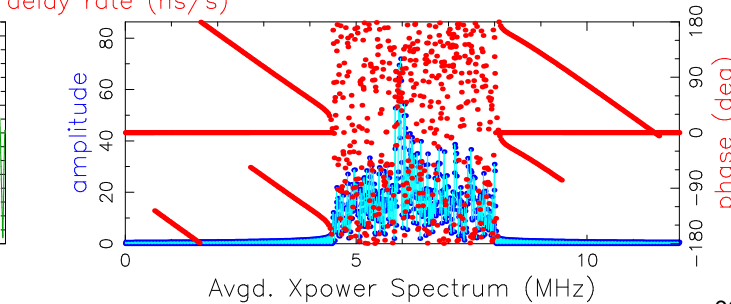
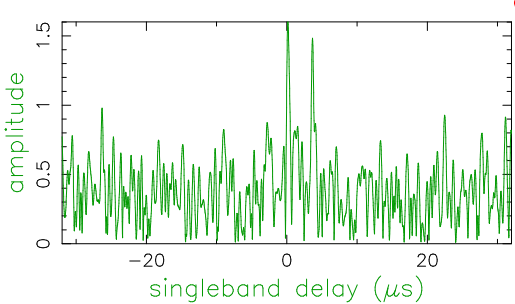
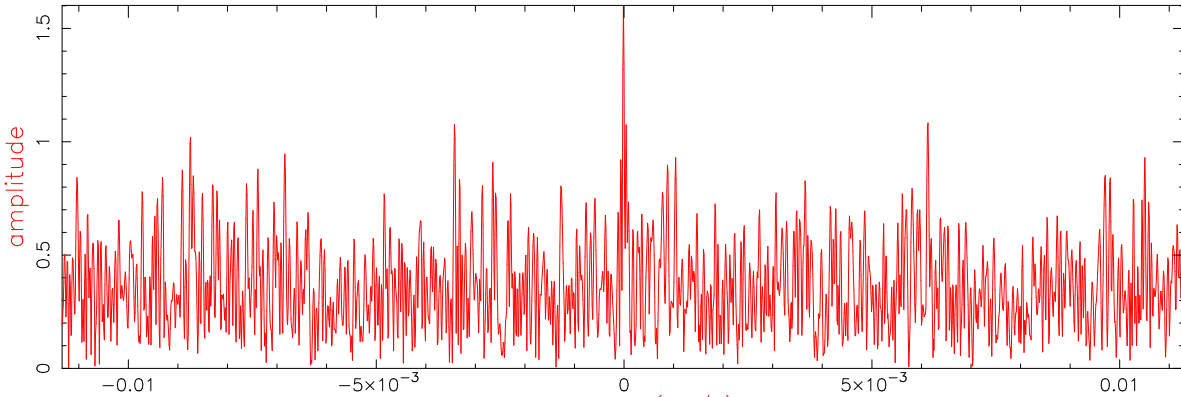
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-8.27823457713E+03	Apriori delay (usec)	-8.27813752372E+03	Resid mbdelay (usec)	4.34953E-06	+/-	4.5E-03
Sband delay (usec)	-8.27823458238E+03	Apriori clock (usec)	-2.1178699E+03	Resid sbdelay (usec)	-9.70587E-02	+/-	4.5E-03
Phase delay (usec)	-8.27813752889E+03	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-5.17221E-06	+/-	3.6E-07
Delay rate (us/s)	-8.28309472894E-01	Apriori rate (us/s)	-8.28314684040E-01	Resid rate (us/s)	5.21115E-06	+/-	2.1E-09
Total phase (deg)	254.0	Apriori accel (us/s/s)	1.28462971160E-05	Resid phase (deg)	359.5	+/-	11.1

ph/seg (deg)	RMS 90.9	Theor. 95.3	Amplitude Search (2048X8)	1.551 +/- 0.151	1.408	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.7	166.3	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	5.6	Inc. seg. avg.	0.876	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	9.7	Inc. frq. avg.	1.540	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

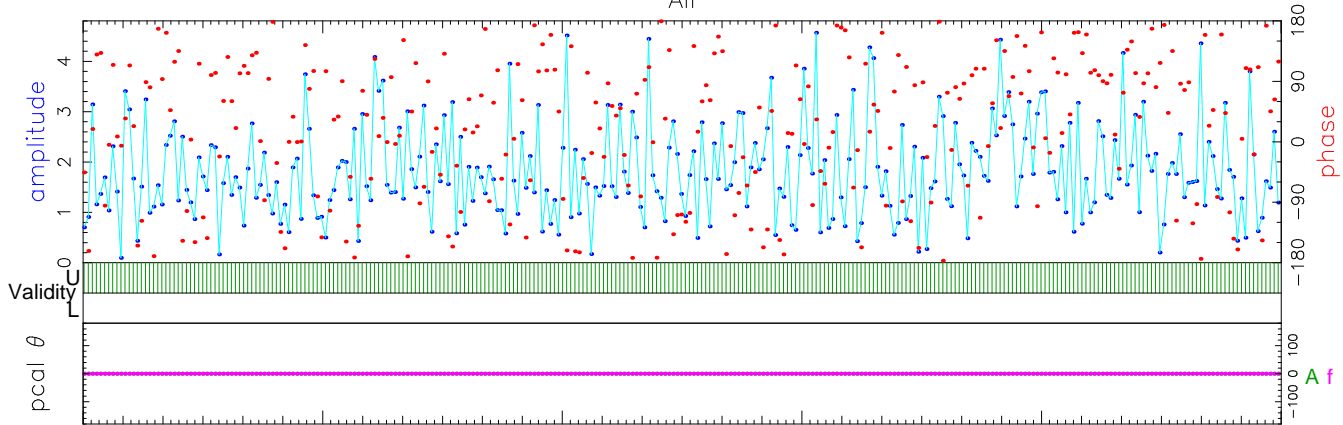
A: az 311.0 el 41.2 pa 135.0 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 4858.139 -7607.384 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Af..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Af.W.16.1T5H2H

Fringe quality 7



SNR 11.6  
Int time 299.970  
Amp 1.602  
Phase -321.2  
PFD 8.1e-24  
Delays (us)  
SBD 0.151064  
MBD -0.000007  
Fringe rate (Hz)  
-0.001286  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
90.2  
0.5  
1544.3  
U/L 586/0  
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  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-8.27798646454E+03	Apriori delay (usec)	-8.27813752372E+03	Resid mbdelay (usec)	-7.19348E-06	+/-	4.0E-03
Sband delay (usec)	-8.27798645972E+03	Apriori clock (usec)	-2.1178699E-03	Resid sbdelay (usec)	1.51064E-01	+/-	4.0E-03
Phase delay (usec)	-8.27813752081E+03	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	2.90729E-06	+/-	3.2E-07
Delay rate (us/s)	-8.28314698972E-01	Apriori rate (us/s)	-8.28314684040E-01	Resid rate (us/s)	-1.49329E-08	+/-	1.8E-09
Total phase (deg)	-66.7	Apriori accel (us/s/s)	1.28462971160E-05	Resid phase (deg)	-321.2	+/-	9.9

ph/seg (deg)	RMS 90.6	Theor. 84.4	Amplitude Search (2048X8)	1.602 +/- 0.138	1.568	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	60.2	147.4	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	4.9	Inc. seg. avg.	0.879	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	8.6	Inc. frq. avg.	1.592	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

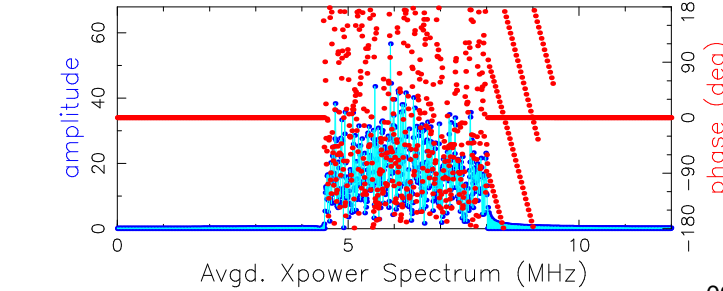
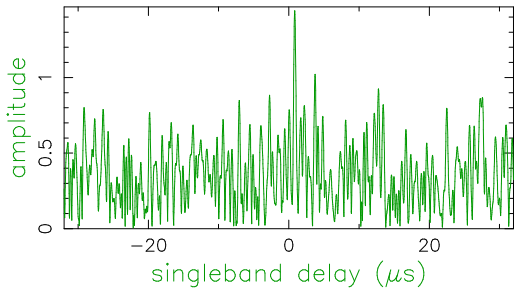
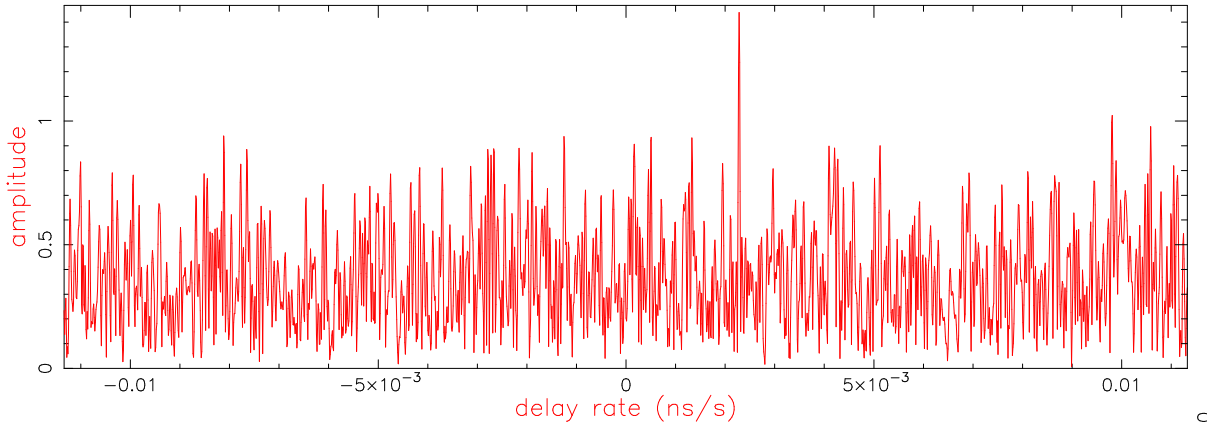
A: az 311.0 el 41.2 pa 135.0 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 4858.139 -7607.384 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Af..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Af.W.28.1T5H2H



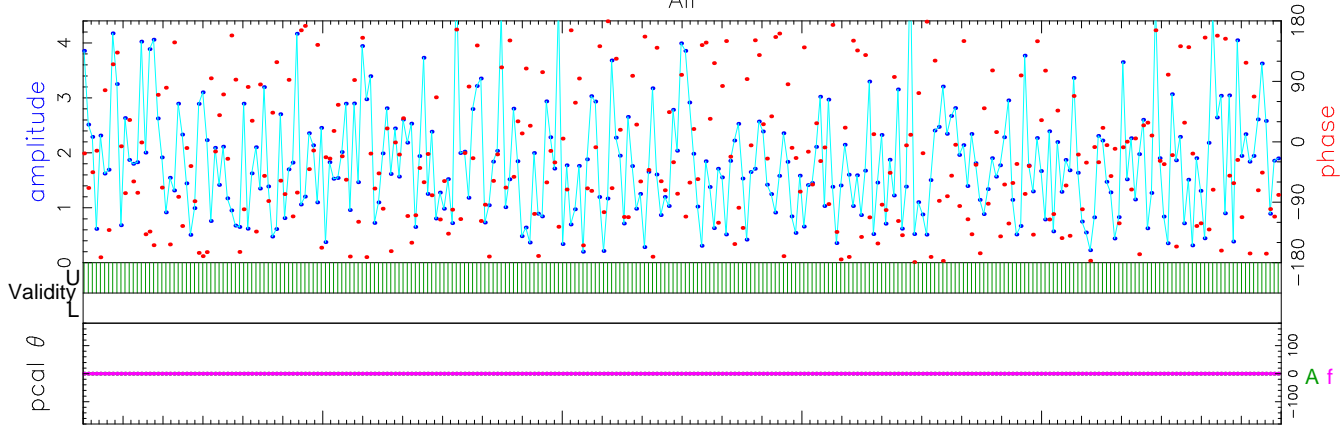
Fringe quality 7

SNR 10.5  
Int time 299.970  
Amp 1.468  
Phase -117.3  
PFD 2.6e-18  
Delays (us)  
SBD 0.840287  
MBD 0.000006  
Fringe rate (Hz)  
0.196187  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
-79.7  
0.4  
1577.3  
U/L 586/0  
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 phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-8.27729723596E+03	Apriori delay (usec)	-8.27813752372E+03	Resid mbdelay (usec)	5.70875E-06	+/-	4.4E-03
Sband delay (usec)	-8.27729723705E+03	Apriori clock (usec)	-2.1178699E+03	Resid sbdelay (usec)	8.40287E-01	+/-	4.4E-03
Phase delay (usec)	-8.27813752628E+03	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-2.56874E-06	+/-	3.5E-07
Delay rate (us/s)	-8.28312406502E-01	Apriori rate (us/s)	-8.28314684040E-01	Resid rate (us/s)	2.27754E-06	+/-	2.0E-09
Total phase (deg)	-222.7	Apriori accel (us/s/s)	1.28462971160E-05	Resid phase (deg)	-117.3	+/-	10.9

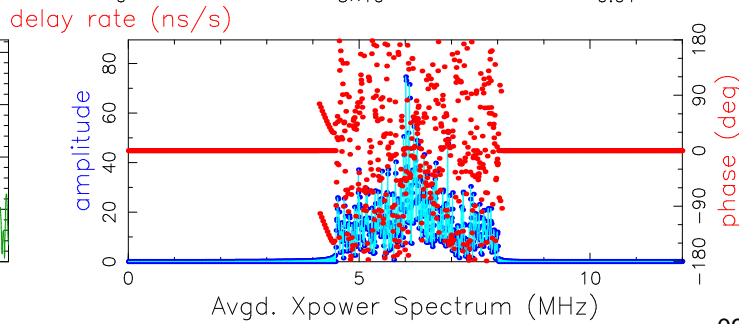
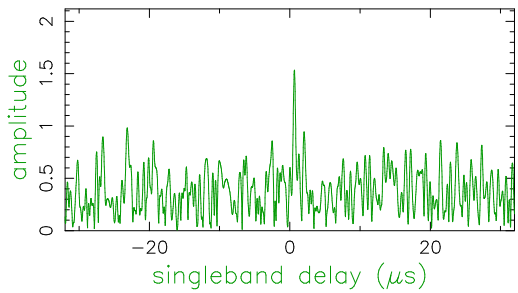
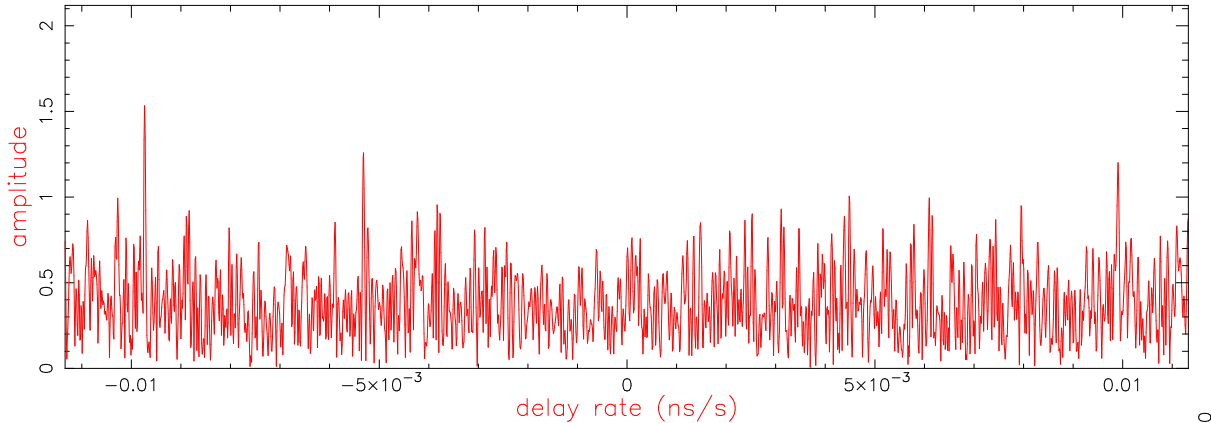
ph/seg (deg)	RMS 92.1	Theor. 93.7	Amplitude Search (2048X8)	1.468 +/- 0.140	1.418	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.8	163.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.5	Inc. seg. avg.	0.797	0.797	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	9.6	Inc. frq. avg.	1.457	1.457	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 311.0 el 41.2 pa 135.0 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 4858.139 -7607.384 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Af..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Af.W.3.1T5H2H

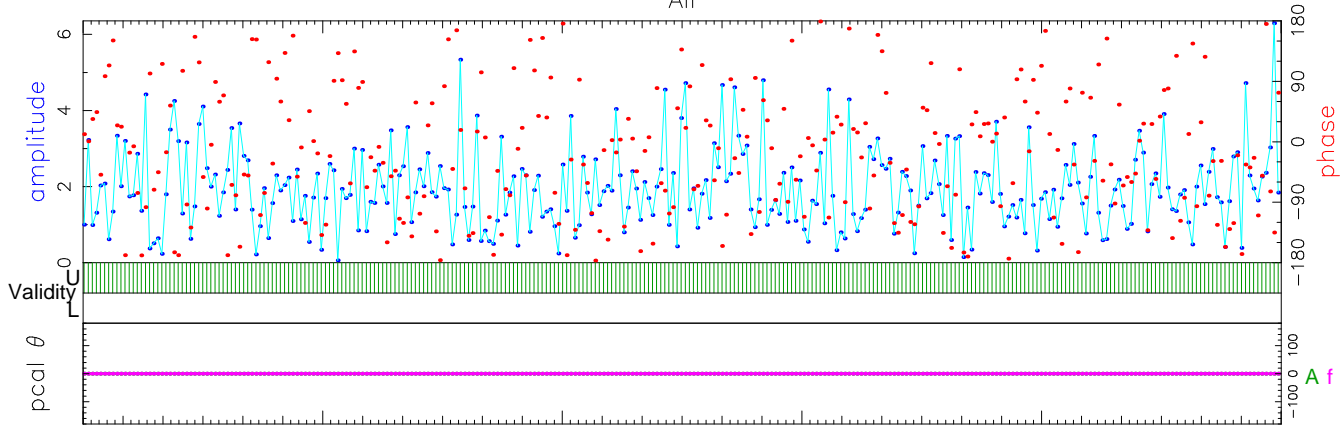
Fringe quality 7

SNR 11.1  
Int time 299.973  
Amp 2.119  
Phase -188.7  
PFD 2.2e-21  
Delays (us)  
SBD 0.648725  
MBD -0.000004  
Fringe rate (Hz)  
-0.837670  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
-30.5  
0.6  
1568.1  
U/L 586/0  
A 0  
f 0  
A:f 0:0  
A:f 0:0  
A 1000  
f 1000  
A W03UY  
f W03UL

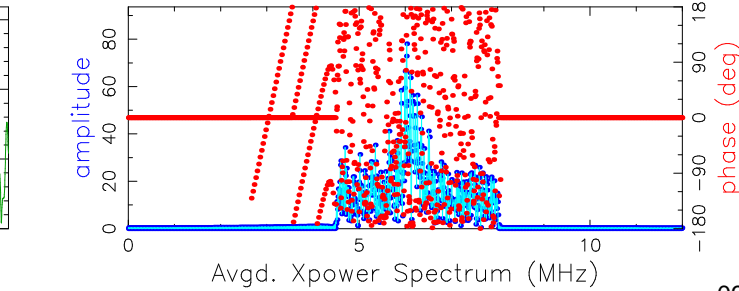
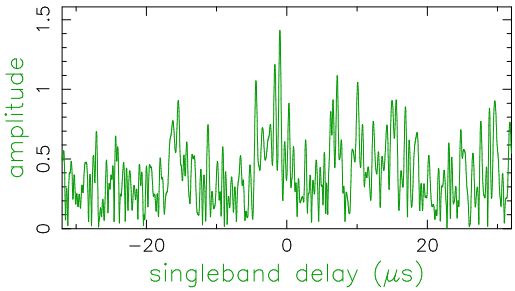
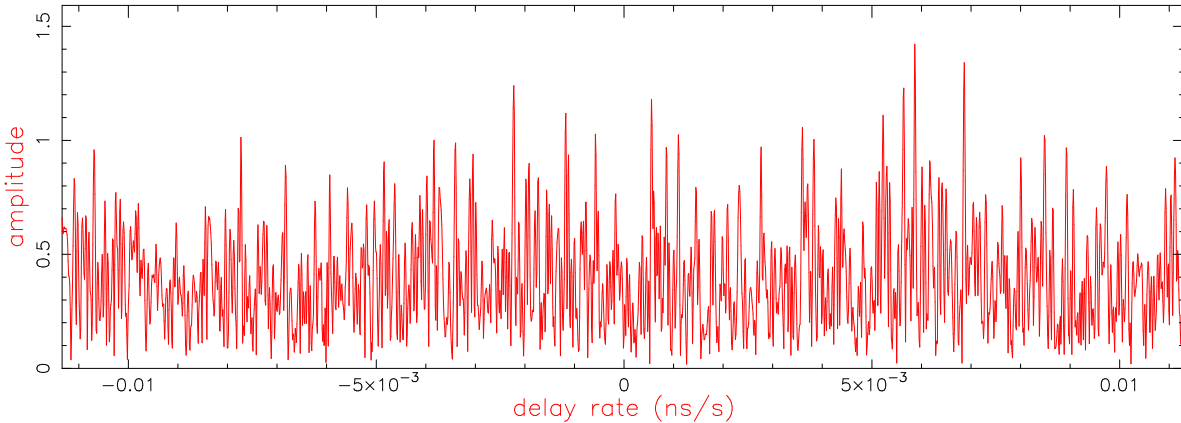
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-8.27748879856E+03	Apriori delay (usec)	-8.27813752372E+03	Resid mbdelay (usec)	-4.36135E-06	+/-	4.1E-03
Sband delay (usec)	-8.27748879838E+03	Apriori clock (usec)	-2.1178699E+03	Resid sbdelay (usec)	6.48725E-01	+/-	4.1E-03
Phase delay (usec)	-8.27813752470E+03	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-9.84423E-07	+/-	3.3E-07
Delay rate (us/s)	-8.28324408559E-01	Apriori rate (us/s)	-8.28314684040E-01	Resid rate (us/s)	-9.72452E-06	+/-	1.9E-09
Total phase (deg)	-294.2	Apriori accel (us/s/s)	1.28462971160E-05	Resid phase (deg)	-188.7	+/-	10.3

ph/seg (deg)	RMS 91.5	Theor. 88.2	Amplitude Search (2048X8)	2.119 +/- 0.191	1.494	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.0	153.9	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	5.2	Inc. seg. avg.	1.233	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	9.0	Inc. frq. avg.	2.111	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

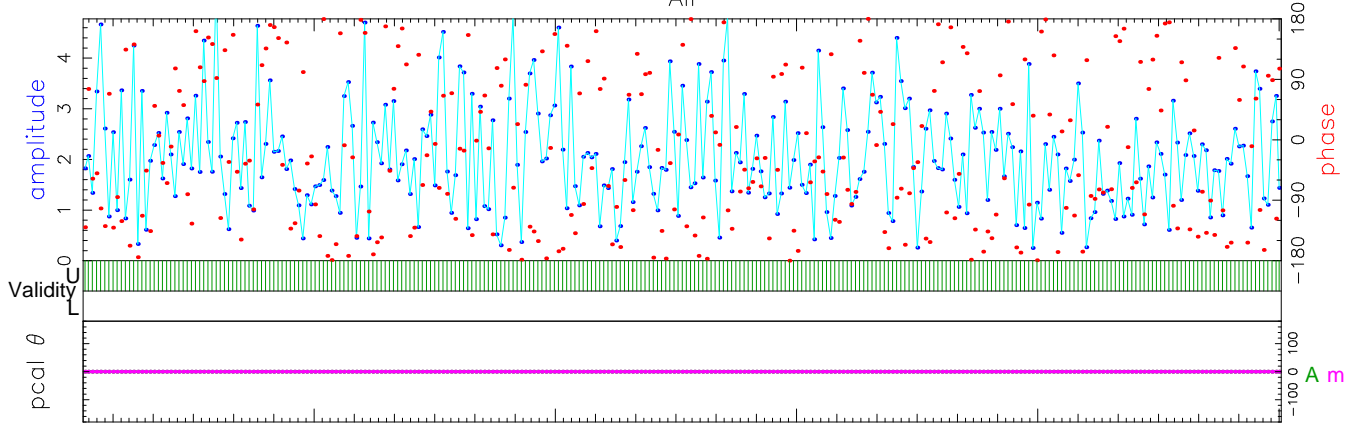
A: az 311.0 el 41.2 pa 135.0 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 4858.139 -7607.384 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Af..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Af.W.65.1T5H2H

Fringe quality 7



SNR 10.3  
Int time 296.980  
Amp 1.592  
Phase 195.2  
PFD 2.1e-17  
Delays (us)  
SBD -0.987841  
MBD 0.000007  
Fringe rate (Hz)  
0.504582  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-144.2  
0.5  
1489.6  
U/L 581/0  
A 0  
m 0  
A:m 0:0  
A:m 0:0  
A 1000  
m 1000  
A W03UY  
m W03UR

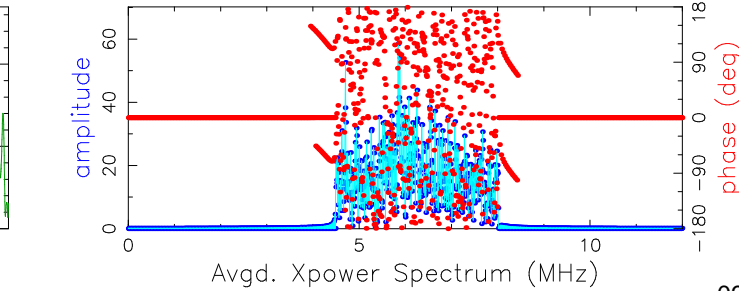
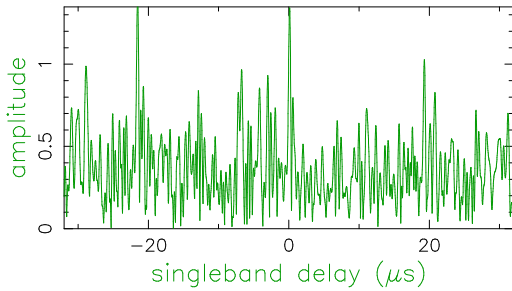
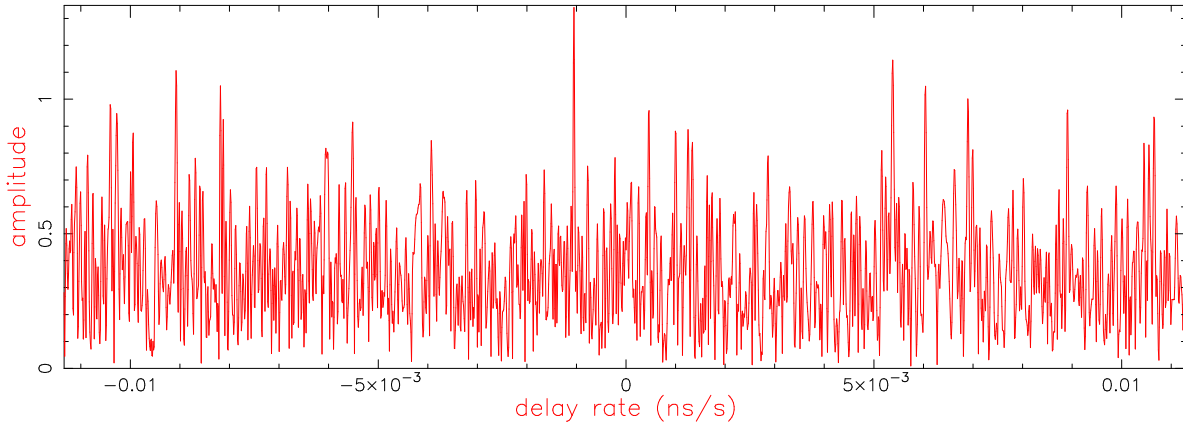
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.77976192699E+03	Apriori delay (usec)	-1.77877408757E+03	Resid mbdelay (usec)	6.61426E-06	+/-	4.5E-03
Sband delay (usec)	-1.77976192890E+03	Apriori clock (usec)	-2.1233252E+03	Resid sbdelay (usec)	-9.87841E-01	+/-	4.5E-03
Phase delay (usec)	-1.77877409221E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.64846E-06	+/-	3.6E-07
Delay rate (us/s)	-1.94821675951E+00	Apriori rate (us/s)	-1.94822261720E+00	Resid rate (us/s)	5.85769E-06	+/-	2.1E-09
Total phase (deg)	230.1	Apriori accel (us/s/s)	-1.79667330655E-05	Resid phase (deg)	195.2	+/-	11.2

ph/seg (deg)	RMS 90.5	Theor. 95.2	Amplitude Search (2048X8)	1.592 +/- 0.155	1.413	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.4	166.2	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	5.6	Inc. seg. avg.	0.966	0.966	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	9.7	Inc. frq. avg.	1.583	1.583	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

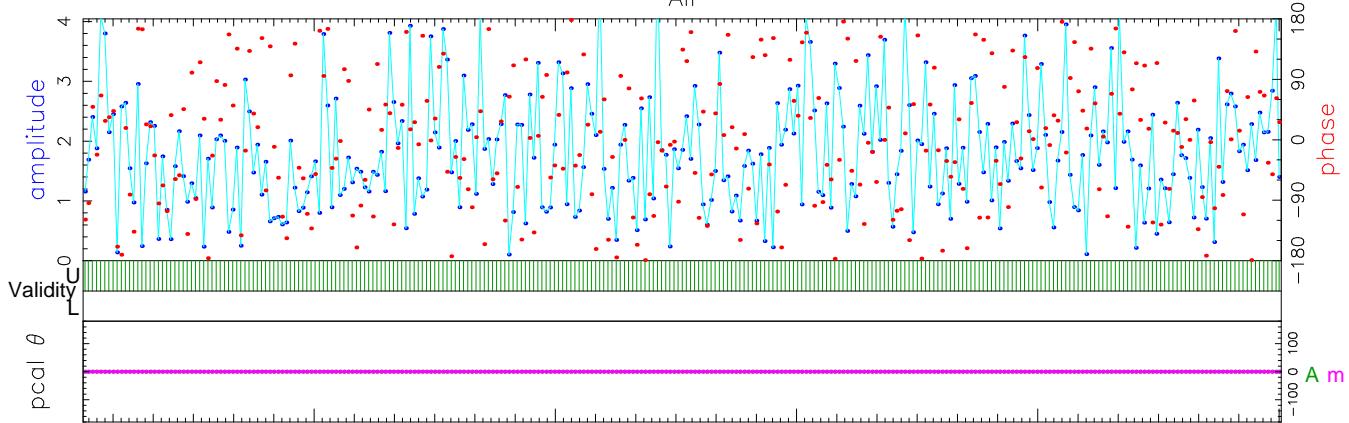
A: az 311.0 el 41.2 pa 135.0 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 11371.531 -6618.694 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Am..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Am.W.29.1T5H2H

Fringe quality 8



SNR 9.7  
Int time 296.977  
Amp 1.349  
Phase -316.6  
PFD 6.2e-15  
Delays (us)  
SBD 0.113819  
MBD -0.000007  
Fringe rate (Hz)  
-0.090800  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
8.5  
0.4  
503.8  
U/L 581/0  
A 0  
m 0  
A:m 0:0  
A:m 0:0  
A 1000  
m 1000  
A W03UX  
m W03UL

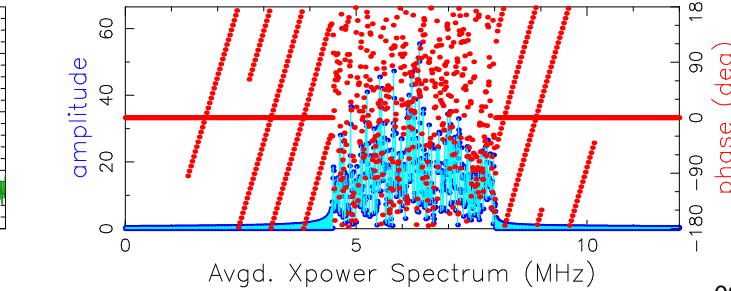
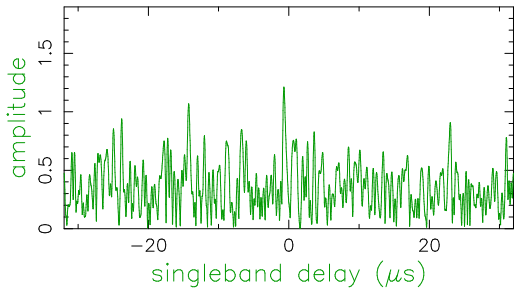
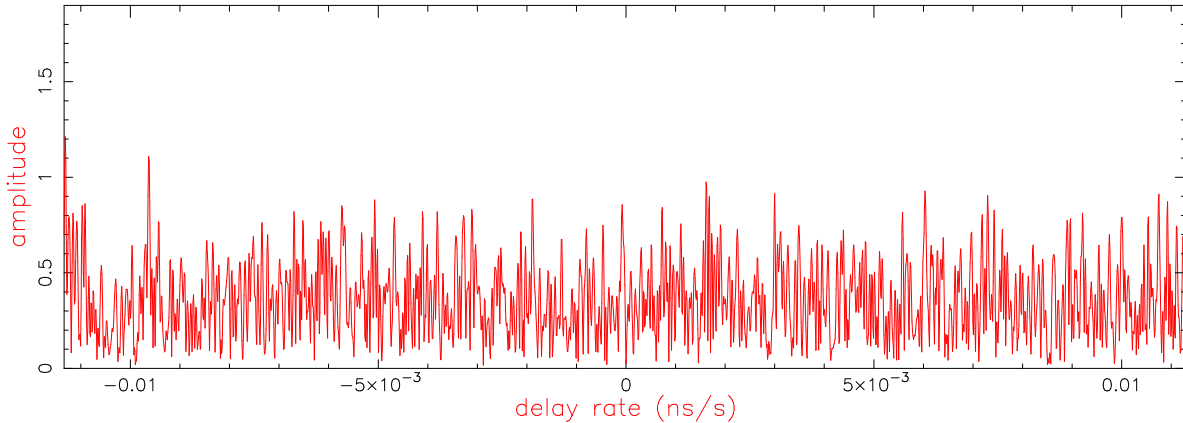
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.77866026731E+03	Apriori delay (usec)	-1.77877408757E+03	Resid mbdelay (usec)	-7.19849E-06	+/- 4.7E-03
Sband delay (usec)	-1.77866026890E+03	Apriori clock (usec)	-2.1233252E+03	Resid sbdelay (usec)	1.13819E-01	+/- 4.7E-03
Phase delay (usec)	-1.77877408729E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.73254E-07	+/- 3.8E-07
Delay rate (us/s)	-1.94822367131E+00	Apriori rate (us/s)	-1.94822261720E+00	Resid rate (us/s)	-1.05410E-06	+/- 2.2E-09
Total phase (deg)	-281.6	Apriori accel (us/s/s)	-1.79667330655E-05	Resid phase (deg)	-316.6	+/- 11.8

ph/seg (deg)	RMS 95.4	Theor. 100.8	Amplitude Search (2048X8)	1.349 +/- 0.139	1.322	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.1	175.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.714	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.8	10.3	Inc. frq. avg.	1.339	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00	

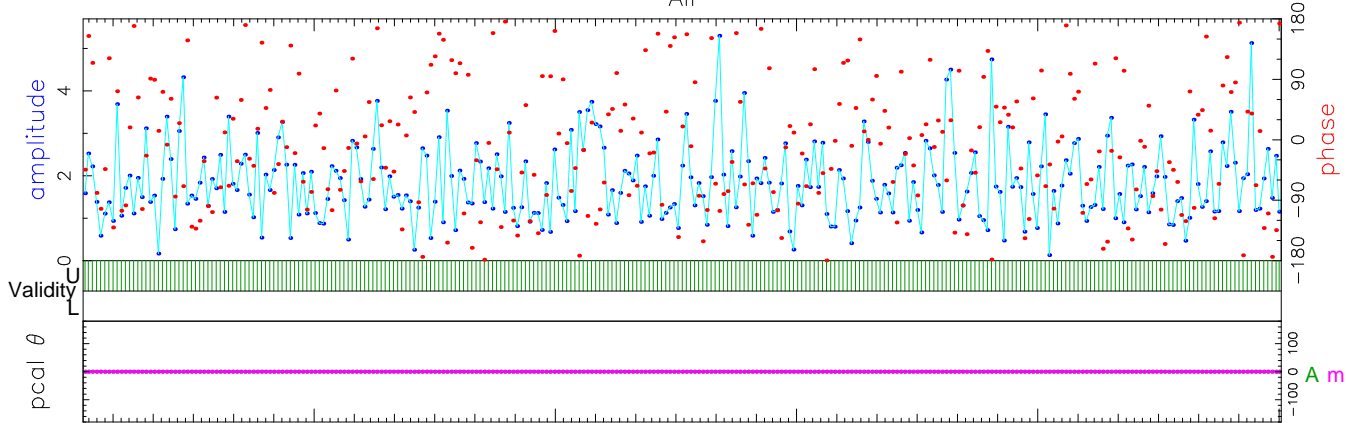
A: az 311.0 el 41.2 pa 135.0 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 11371.531 -6618.694 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Am..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Am.W.4.1T5H2H

Fringe quality 8



SNR 8.8  
Int time 296.977  
Amp 1.899  
Phase 285.3  
PFD 3.8e-11  
Delays (us)  
SBD -0.699640  
MBD -0.000005  
Fringe rate (Hz)  
-0.973430  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-27.2  
0.6  
1503.4  
U/L 581/0  
A 0  
m 0  
A:m 0:0  
A:m 0:0  
A 1000  
m 1000  
A W03UX  
m W03UR

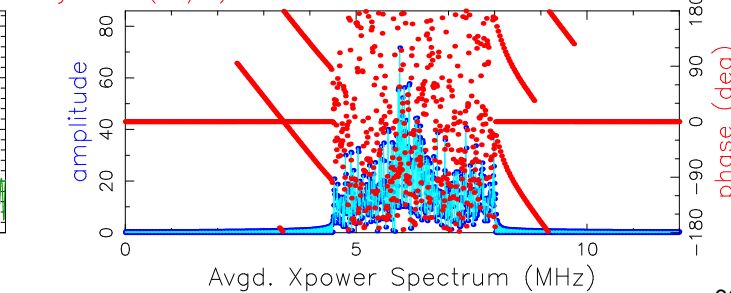
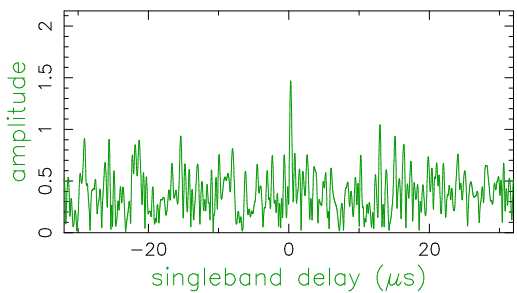
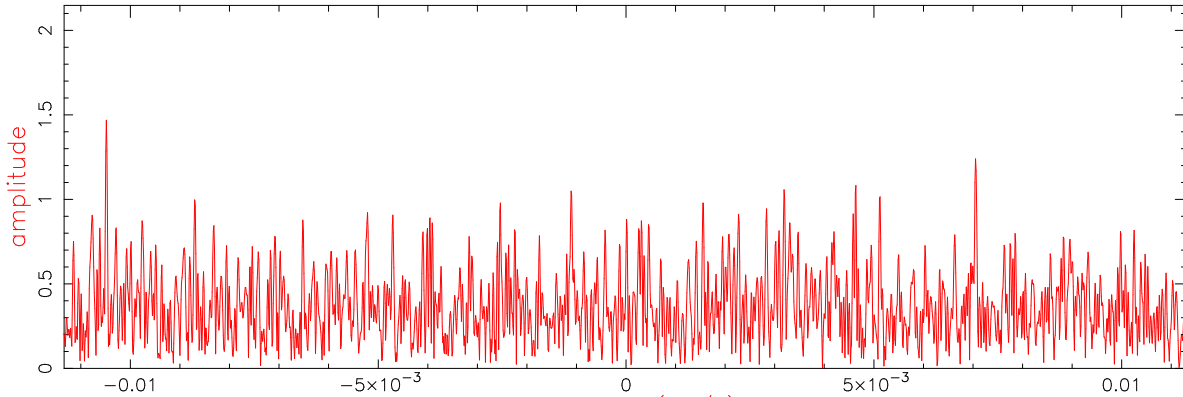
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.77947372218E+03	Apriori delay (usec)	-1.77877408757E+03	Resid mbdelay (usec)	-4.56850E-06	+/- 5.3E-03
Sband delay (usec)	-1.77947372757E+03	Apriori clock (usec)	-2.1233252E+03	Resid sbdelay (usec)	-6.99640E-01	+/- 5.3E-03
Phase delay (usec)	-1.77877408844E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-8.75889E-07	+/- 4.2E-07
Delay rate (us/s)	-1.94823391776E+00	Apriori rate (us/s)	-1.94822261720E+00	Resid rate (us/s)	-1.13006E-05	+/- 2.5E-09
Total phase (deg)	320.2	Apriori accel (us/s/s)	-1.79667330655E-05	Resid phase (deg)	285.3	+/- 13.1

ph/seg (deg)	RMS 91.7	Theor. 111.7	Amplitude Search (2048X8)	1.899 +/- 0.217	1.197	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	90.6	195.0	Interp.	0.000	0.996	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.996	1.885	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.885		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

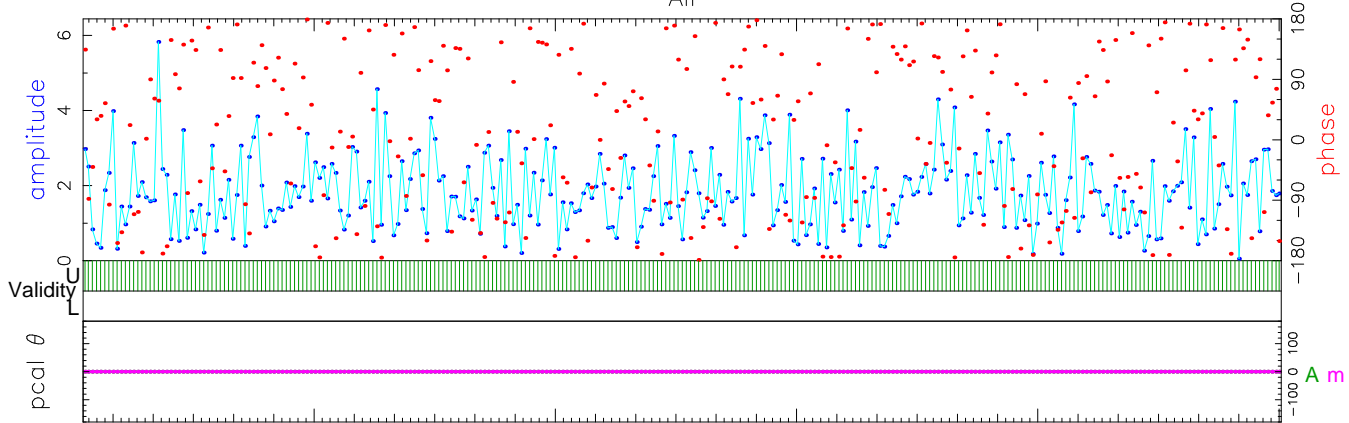
A: az 311.0 el 41.2 pa 135.0 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 11371.531 -6618.694 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Am..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Am.W.52.1T5H2H

Fringe quality 7



SNR 10.6  
Int time 296.980  
Amp 2.148  
Phase -185.3  
PFD 6.1e-19  
Delays (us)  
SBD 0.263519  
MBD -0.000006  
Fringe rate (Hz)  
-0.902084  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
148.3  
0.6  
1549.7  
U/L 581/0  
A 0  
m 0  
A:m 0:0  
A:m 0:0  
A 1000  
m 1000  
A W03UY  
m W03UL

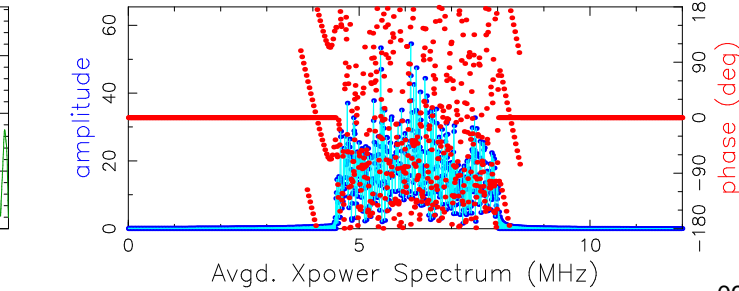
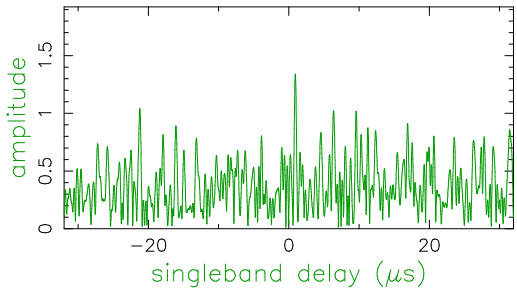
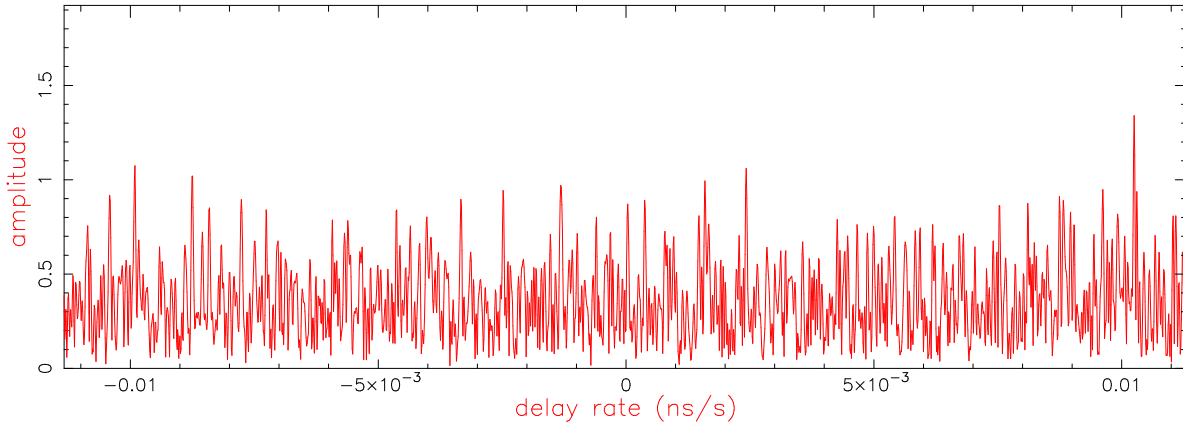
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.77851056806E+03	Apriori delay (usec)	-1.77877408757E+03	Resid mbdelay (usec)	-5.83799E-06	+/-	4.3E-03
Sband delay (usec)	-1.77851056890E+03	Apriori clock (usec)	-2.1233252E+03	Resid sbdelay (usec)	2.63519E-01	+/-	4.3E-03
Phase delay (usec)	-1.77877408278E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.78238E-06	+/-	3.5E-07
Delay rate (us/s)	-1.94823308951E+00	Apriori rate (us/s)	-1.94822261720E+00	Resid rate (us/s)	-1.04723E-05	+/-	2.0E-09
Total phase (deg)	-150.4	Apriori accel (us/s/s)	-1.79667330655E-05	Resid phase (deg)	-185.3	+/-	10.8

ph/seg (deg)	RMS 92.9	Theor. 92.2	Amplitude Search (2048X8)	2.148 +/- 0.203	1.459	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.4	160.9	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.4	Inc. seg. avg.	1.173	24	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	9.4	Inc. frq. avg.	2.137	48	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			A: az 311.0 el 41.2 pa 135.0		m: az 91.3 el 39.1 pa -73.7		dr window (ns/s) -0.011 0.011
			u,v (fr/asec) 11371.531 -6618.694				ion window (TEC) 0.00 0.00

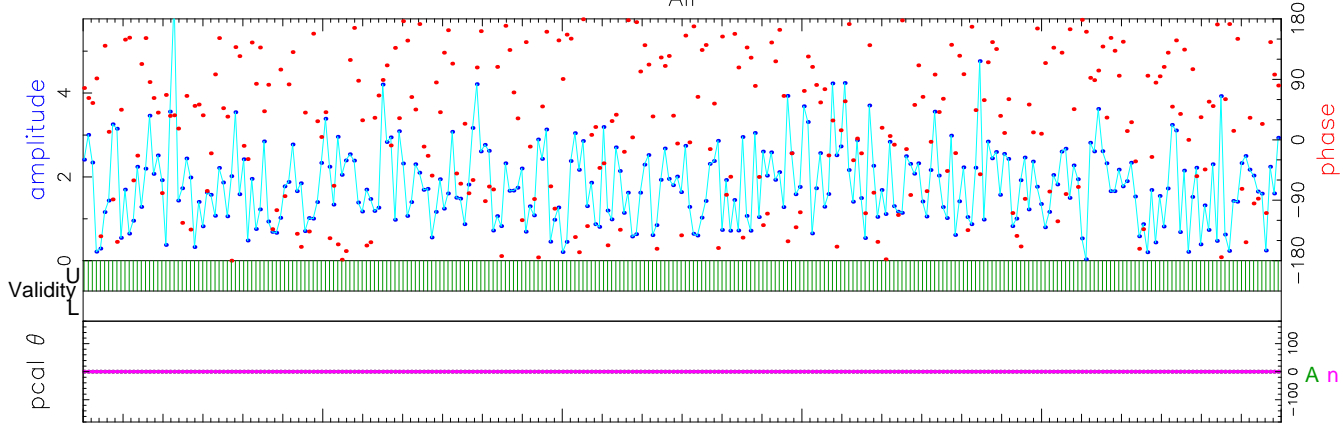
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Am..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Am.W.67.1T5H2H simultaneous interpolator

Fringe quality 8



SNR 9.7  
Int time 299.972  
Amp 1.924  
Phase -16.5  
PFD 4.7e-15  
Delays (us)  
SBD 0.923188  
MBD 0.000005  
Fringe rate (Hz)  
0.881838  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
97.5  
0.6  
1581.3  
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

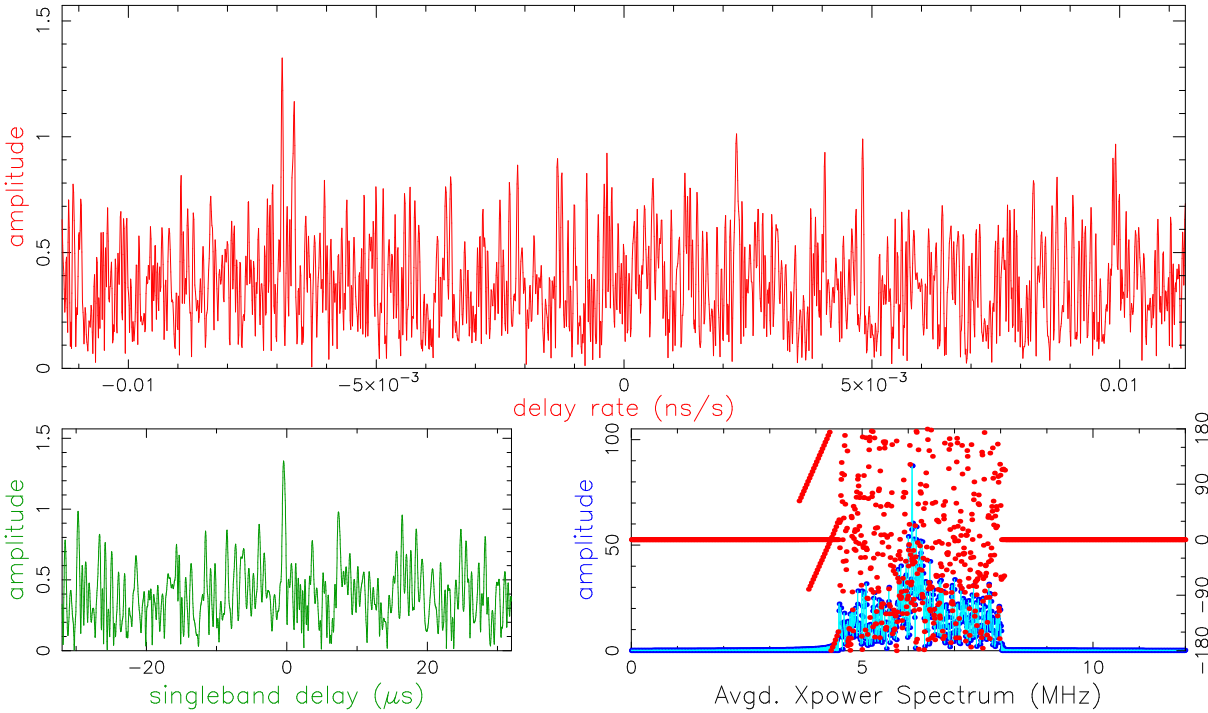
Group delay (usec)(sbd)	-6.18657462948E+03	Apriori delay (usec)	-6.18749781364E+03	Resid mbdelay (usec)	4.64226E-06	+/-	4.7E-03
Sband delay (usec)	-6.18657462564E+03	Apriori clock (usec)	-2.1130923E+03	Resid sbdelay (usec)	9.23188E-01	+/-	4.7E-03
Phase delay (usec)	-6.18749781049E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.14477E-06	+/-	3.8E-07
Delay rate (us/s)	-5.84196947715E-01	Apriori rate (us/s)	-5.84207184978E-01	Resid rate (us/s)	1.02373E-05	+/-	2.2E-09
Total phase (deg)	-256.5	Apriori accel (us/s/s)	-1.71205586324E-06	Resid phase (deg)	-16.5	+/-	11.8

ph/seg (deg)	RMS 91.7	Theor. 100.9	Amplitude Search (2048X8)	1.924 +/- 0.198	1.309	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.8	176.1	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	5.9	Inc. seg. avg.	1.025	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.913	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			A: az 311.0 el 41.2 pa 135.0			ion window (TEC) 0.00 0.00	
			n: az 201.7 el 57.9 pa 16.3			simultaneous interpolator	

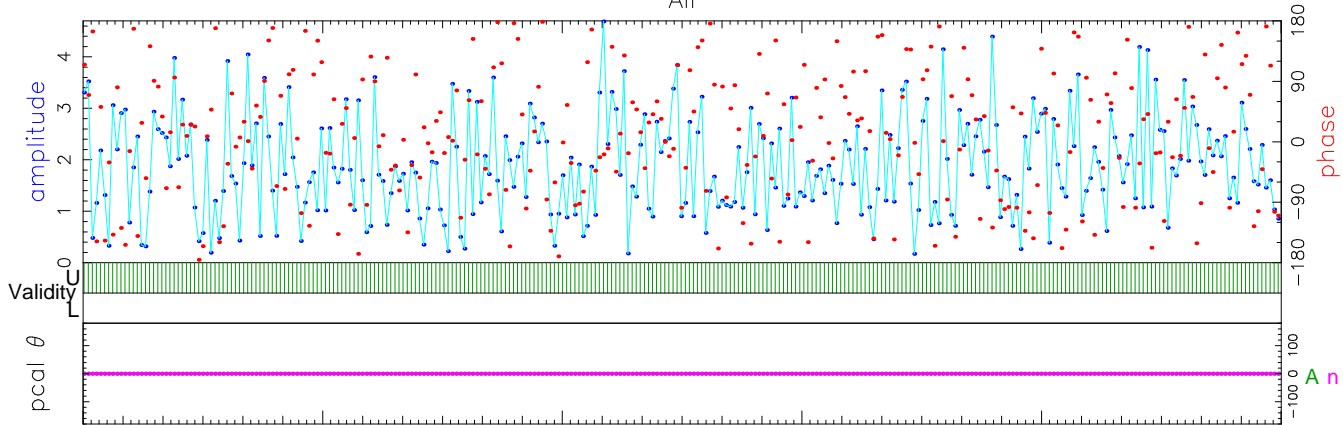
Fringe quality 8

SNR 9.7  
Int time 299.975  
Amp 1.567  
Phase 327.5  
PFD 5.2e-15  
Delays (us)  
SBD -0.457425  
MBD -0.000006  
Fringe rate (Hz)  
-0.593520  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
41.1  
0.5  
1515.1  
U/L 586/0  
A 0  
n 0  
A:n 0:0  
A:n 0:0  
A 1000  
n 1000  
A W03UY  
n W03UR

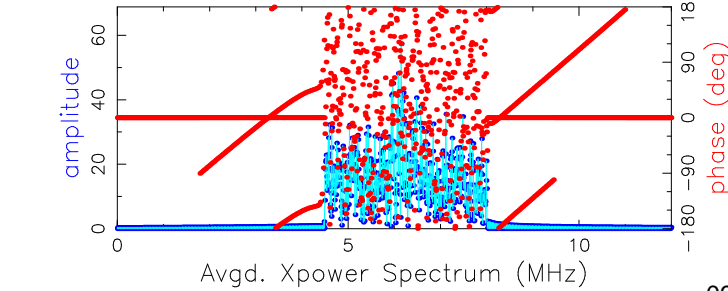
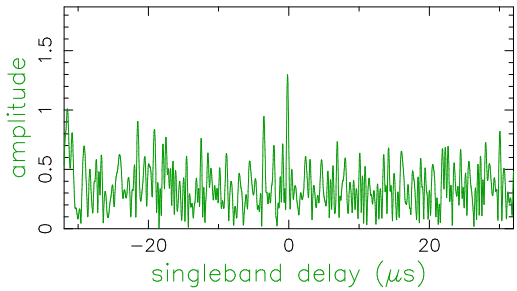
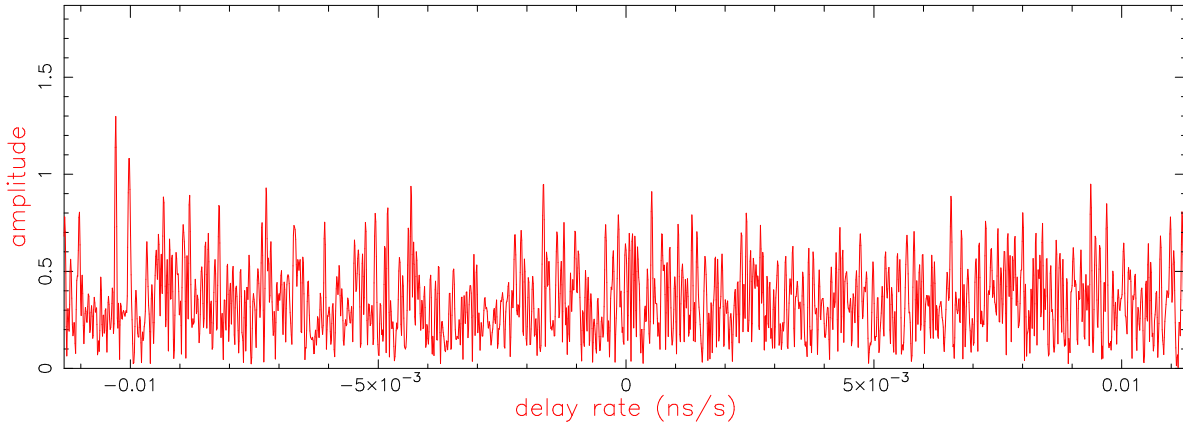
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.18795523970E+03	Apriori delay (usec)	-6.18749781364E+03	Resid mbdelay (usec)	-5.53544E-06	+/- 4.7E-03
Sband delay (usec)	-6.18795523897E+03	Apriori clock (usec)	-2.1130923E+03	Resid sbdelay (usec)	-4.57425E-01	+/- 4.7E-03
Phase delay (usec)	-6.18749781231E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.32447E-06	+/- 3.8E-07
Delay rate (us/s)	-5.84214075161E-01	Apriori rate (us/s)	-5.84207184978E-01	Resid rate (us/s)	-6.89018E-06	+/- 2.2E-09
Total phase (deg)	87.5	Apriori accel (us/s/s)	-1.71205586324E-06	Resid phase (deg)	327.5	+/- 11.8

ph/seg (deg)	RMS 94.8	Theor. 101.0	Amplitude Search (2048X8)	1.567 +/- 0.161	1.312	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.1	176.2	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	5.9	Inc. seg. avg.	0.864	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.559	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
			A: az 311.0 el 41.2 pa 135.0	n: az 201.7 el 57.9 pa 16.3	u,v (fr/asec) 3421.431 -9194.142	ion window (TEC) 0.00 0.00	

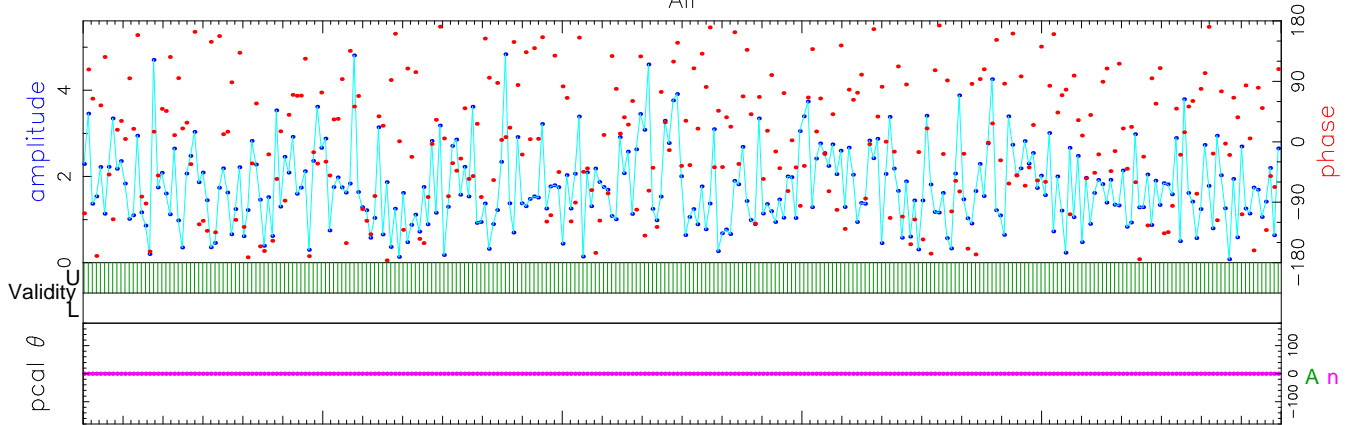


Fringe quality 8



SNR 9.4  
Int time 299.972  
Amp 1.870  
Phase 29.5  
PFD 8.9e-14  
Delays (us)  
SBD -0.184373  
MBD -0.000004  
Fringe rate (Hz)  
-0.885945  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
0.5  
1528.2  
U/L 586/0  
A 0  
n 0  
A:n 0:0  
A:n 0:0  
A 1000  
n 1000  
A W03UX  
n W03UR

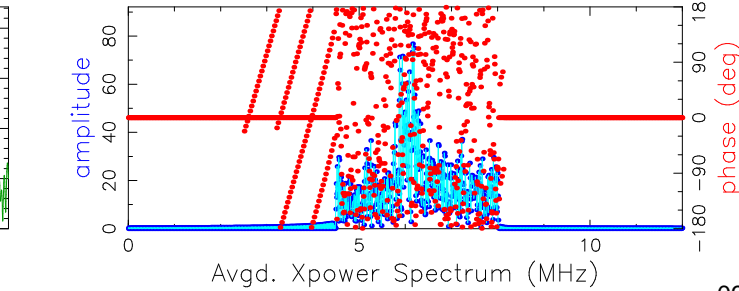
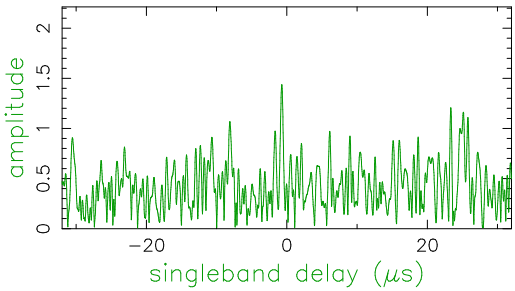
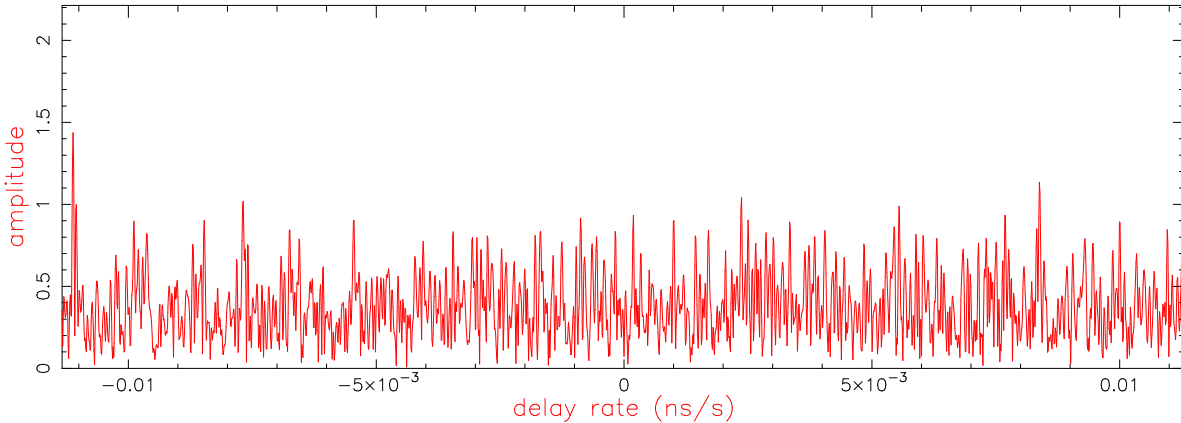
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.18768219185E+03	Apriori delay (usec)	-6.18749781364E+03	Resid mbdelay (usec)	-4.41208E-06	+/-	4.9E-03
Sband delay (usec)	-6.18768218697E+03	Apriori clock (usec)	-2.1130923E+03	Resid sbdelay (usec)	-1.84373E-01	+/-	4.9E-03
Phase delay (usec)	-6.18749781316E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.80978E-07	+/-	3.9E-07
Delay rate (us/s)	-5.84217469918E-01	Apriori rate (us/s)	-5.84207184978E-01	Resid rate (us/s)	-1.02849E-05	+/-	2.3E-09
Total phase (deg)	149.5	Apriori accel (us/s/s)	-1.71205586324E-06	Resid phase (deg)	29.5	+/-	12.2

ph/seg (deg)	RMS 91.8	Theor. 104.2	Amplitude Search (2048X8)	1.870 +/- 0.199	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.1	181.8	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	6.1	Inc. seg. avg.	0.962	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.6	Inc. frq. avg.	1.859	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

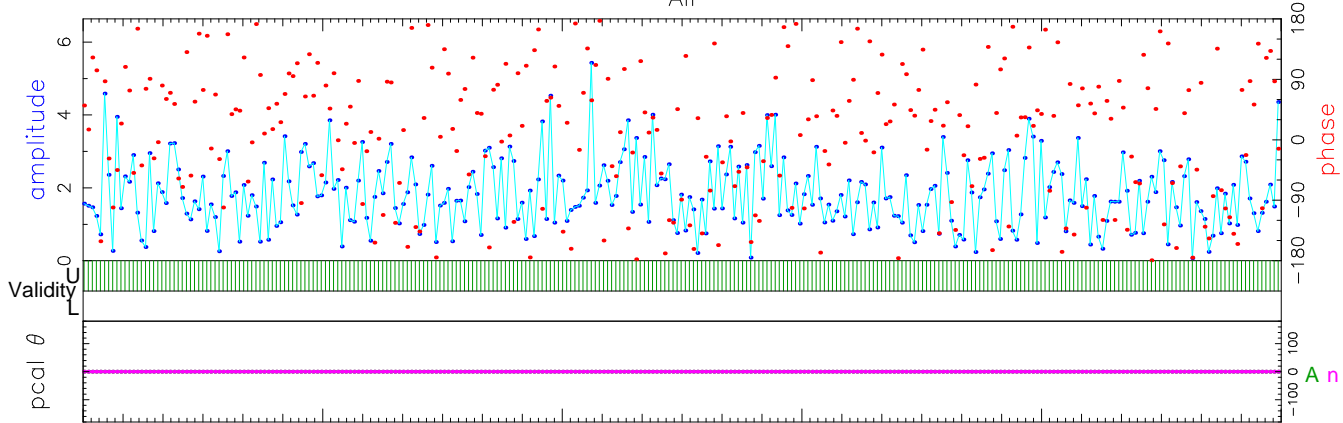
A: az 311.0 el 41.2 pa 135.0 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) 3421.431 -9194.142 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/An..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/An.W.53.1T5H2H

Fringe quality 7



SNR 10.4  
Int time 299.975  
Amp 2.213  
Phase 157.9  
PFD 3.9e-18  
Delays (us)  
SBD -0.715952  
MBD -0.000006  
Fringe rate (Hz)  
-0.956425  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
54.4  
0.6  
1502.6  
U/L 586/0  
A 0  
n 0  
A:n 0:0  
A:n 0:0  
A 1000  
n 1000  
A W03UY  
n W03UL

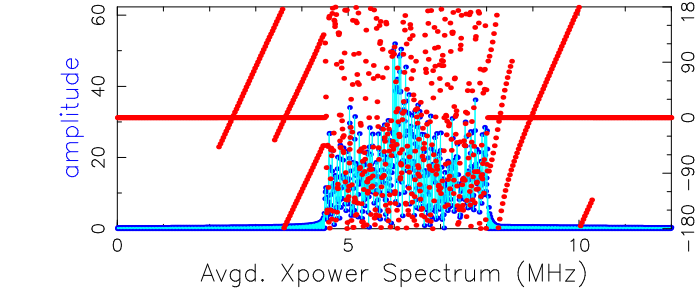
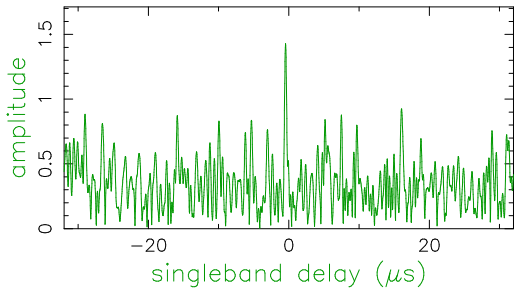
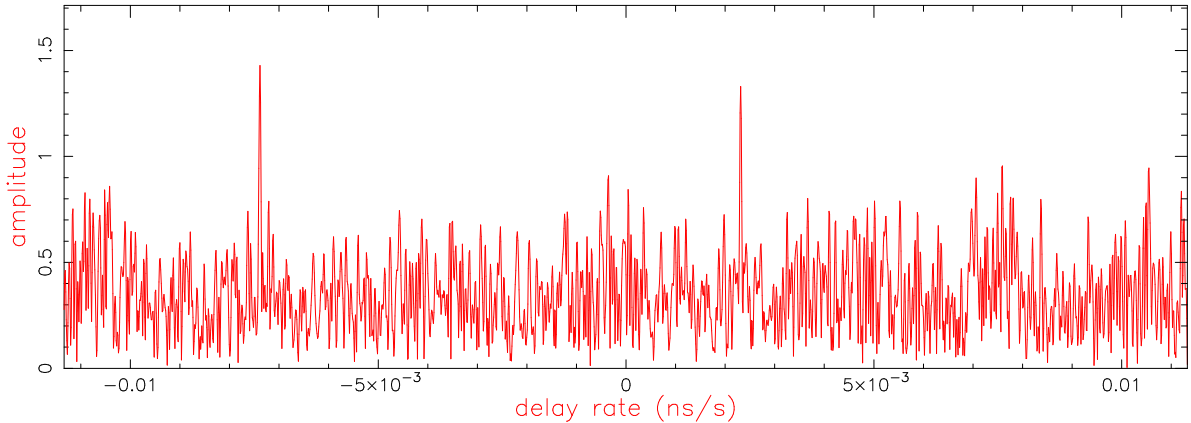
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.18821376675E+03	Apriori delay (usec)	-6.18749781364E+03	Resid mbdelay (usec)	-5.67330E-06	+/-	4.4E-03
Sband delay (usec)	-6.18821376564E+03	Apriori clock (usec)	-2.1130923E+03	Resid sbdelay (usec)	-7.15952E-01	+/-	4.4E-03
Phase delay (usec)	-6.18749781188E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.75531E-06	+/-	3.5E-07
Delay rate (us/s)	-5.84218288118E-01	Apriori rate (us/s)	-5.84207184978E-01	Resid rate (us/s)	-1.11031E-05	+/-	2.0E-09
Total phase (deg)	277.9	Apriori accel (us/s/s)	-1.71205586324E-06	Resid phase (deg)	157.9	+/-	11.0

ph/seg (deg)	91.8	Theor.	94.1	Amplitude	2.213 +/- 0.212	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.4	Search (2048X8)	1.432	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.	1.195	Inc. frq. avg.	2.202	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	2.202	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

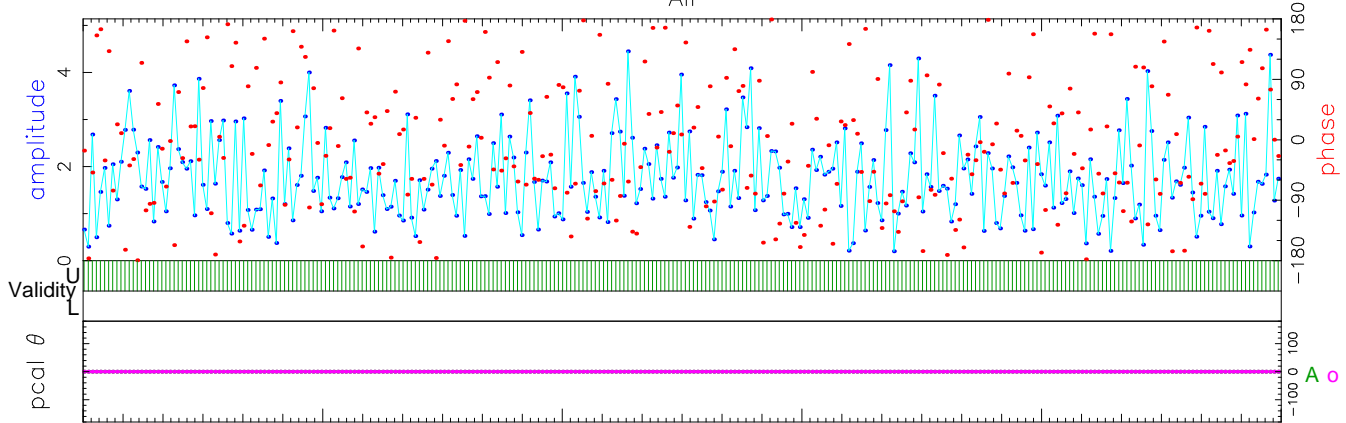
A: az 311.0 el 41.2 pa 135.0 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) 3421.431 -9194.142 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/An..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/An.W.60.1T5H2H

Fringe quality 7



SNR 10.4  
Int time 299.948  
Amp 1.713  
Phase 69.0  
PFD 7.4e-18  
Delays (us)  
SBD -0.463051  
MBD -0.000007  
Fringe rate (Hz)  
-0.635691  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



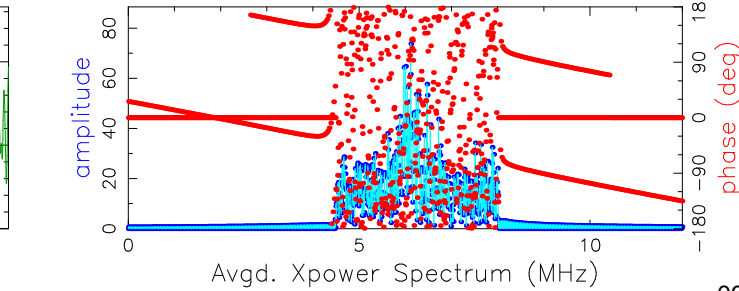
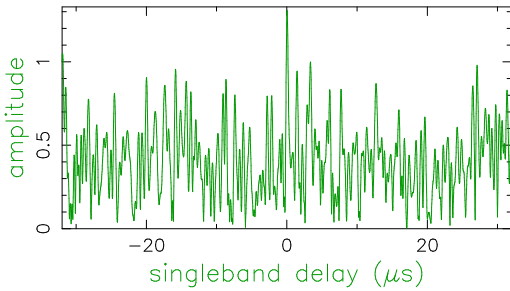
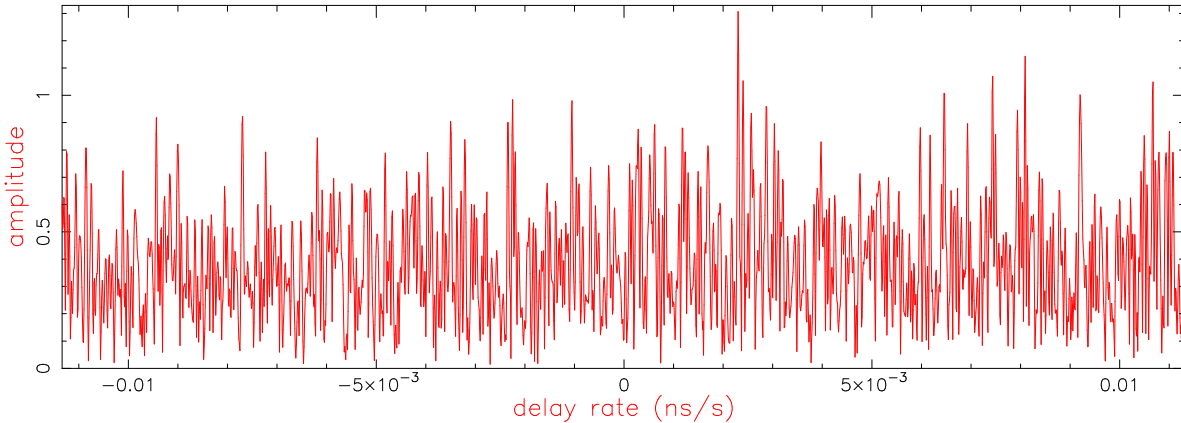
86227.00  
-33.6  
0.5  
1514.8  
U/L 586/0  
A 0  
o 0  
A:o 0:0  
A:o 0:0  
A 1000  
o 1000  
A W03UX  
o W03UL

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)	-6.80127605228E+03	Apriori delay (usec)	-6.80081300018E+03	Resid mbdelay (usec)	-6.88833E-06	+/-	4.4E-03
Sband delay (usec)	-6.80127605085E+03	Apriori clock (usec)	-2.1113633E+03	Resid sbdelay (usec)	-4.63051E-01	+/-	4.4E-03
Phase delay (usec)	-6.80081300126E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.08429E-06	+/-	3.6E-07
Delay rate (us/s)	-1.12809471406E+00	Apriori rate (us/s)	-1.12808733431E+00	Resid rate (us/s)	-7.37975E-06	+/-	2.1E-09
Total phase (deg)	128.2	Apriori accel (us/s/s)	2.91118539606E-06	Resid phase (deg)	69.0	+/-	11.1

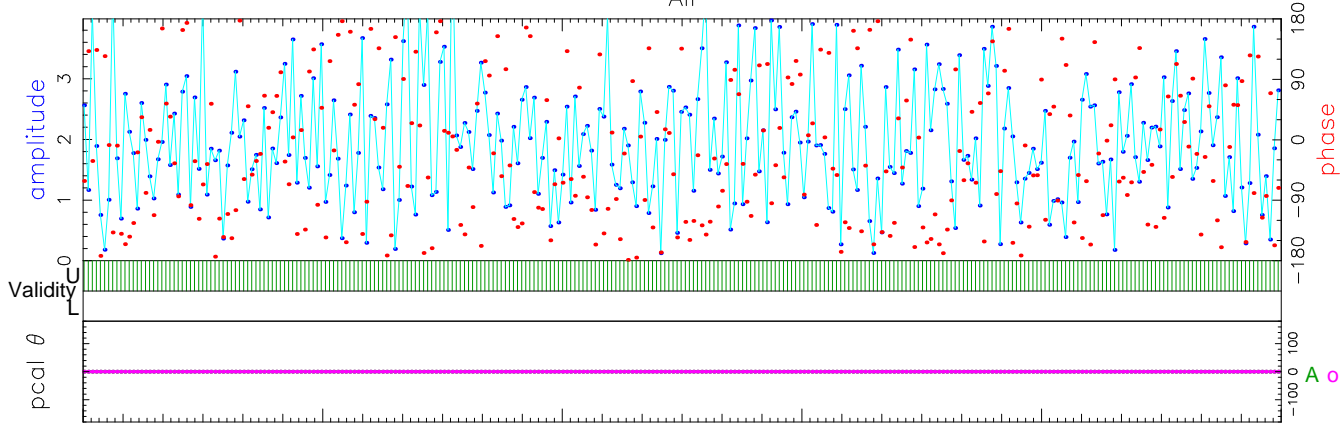
ph/seg (deg)	RMS 93.1	Theor. 94.6	Amplitude Search (2048X8)	1.713 +/- 0.165	1.392	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.2	165.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.5	Inc. seg. avg.	0.893	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	9.6	Inc. frq. avg.	1.704	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			A: az 311.0 el 41.2 pa 135.0		o: az 148.4 el 60.7 pa -24.7		ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.5  
Int time 299.951  
Amp 1.329  
Phase -203.9  
PFD 5.0e-14  
Delays (us)  
SBD 0.038265  
MBD 0.000005  
Fringe rate (Hz)  
0.198009  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-85.6  
0.4  
1538.8  
U/L 586/0  
A 0  
o 0  
A:o 0:0  
A:o 0:0  
A 1000  
o 1000  
A W03UY  
o W03UR

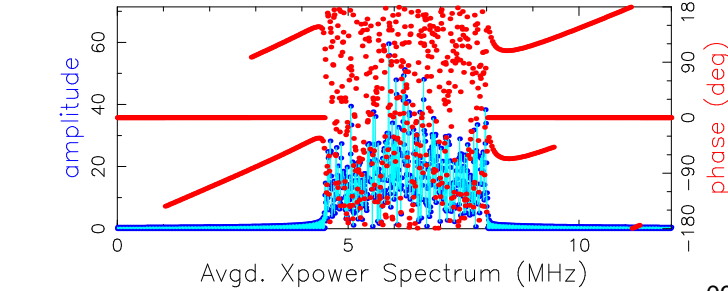
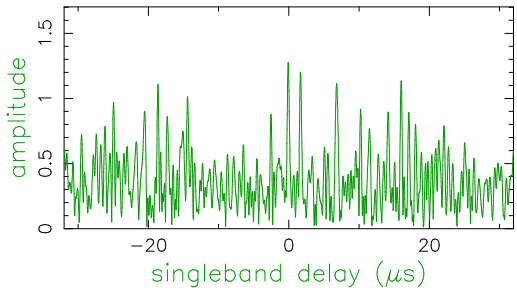
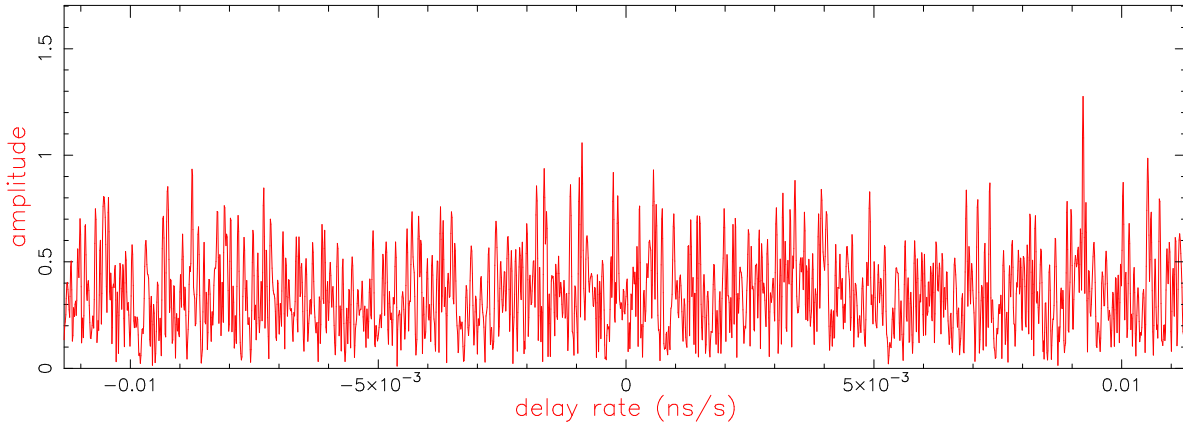
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.80077473601E+03	Apriori delay (usec)	-6.80081300018E+03	Resid mbdelay (usec)	4.69171E-06	+/-	4.8E-03
Sband delay (usec)	-6.80077473485E+03	Apriori clock (usec)	-2.1113633E+03	Resid sbdelay (usec)	3.82653E-02	+/-	4.8E-03
Phase delay (usec)	-6.80081300294E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.76077E-06	+/-	3.9E-07
Delay rate (us/s)	-1.12808503563E+00	Apriori rate (us/s)	-1.12808733431E+00	Resid rate (us/s)	2.29868E-06	+/-	2.3E-09
Total phase (deg)	-144.6	Apriori accel (us/s/s)	2.91118539606E-06	Resid phase (deg)	-203.9	+/-	12.1

ph/seg (deg)	RMS 94.7	Theor. 103.5	Amplitude Search (2048X8)	1.329 +/- 0.140	1.277	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	91.9	180.6	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	6.0	Inc. seg. avg.	0.763	0.763	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.6	Inc. frq. avg.	1.322	1.322	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

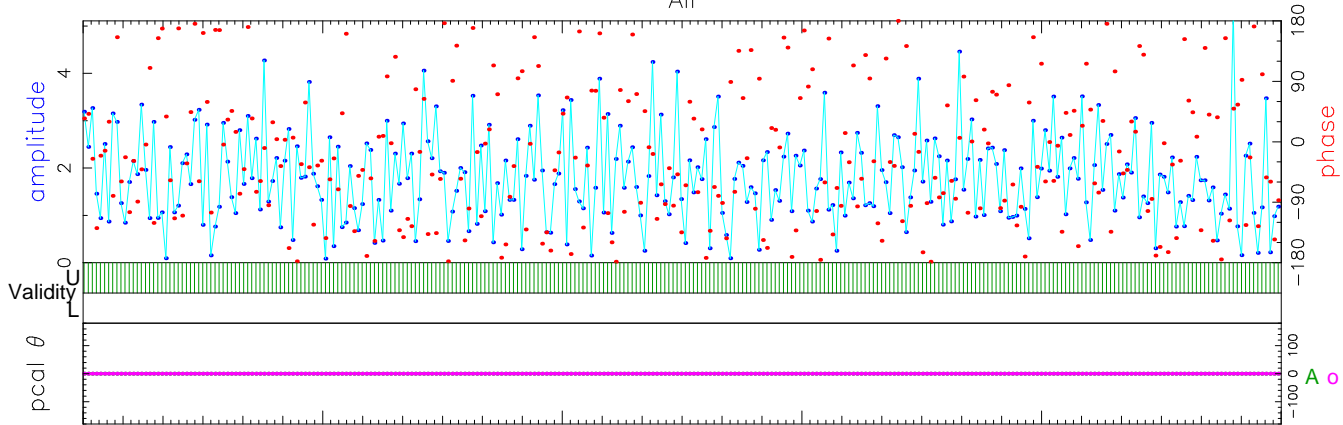
A: az 311.0 el 41.2 pa 135.0 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 6601.586 -8594.212 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ao..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ao.W.27.1T5H2H

Fringe quality 8



SNR 9.3  
Int time 299.948  
Amp 1.703  
Phase 194.9  
PFD 3.8e-13  
Delays (us)  
SBD -0.088641  
MBD 0.000004  
Fringe rate (Hz)  
0.793568  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-61.6  
0.5  
1532.8  
U/L 586/0  
A 0  
o 0  
A:o 0:0  
A:o 0:0  
A 1000  
o 1000  
A W03UX  
o W03UR

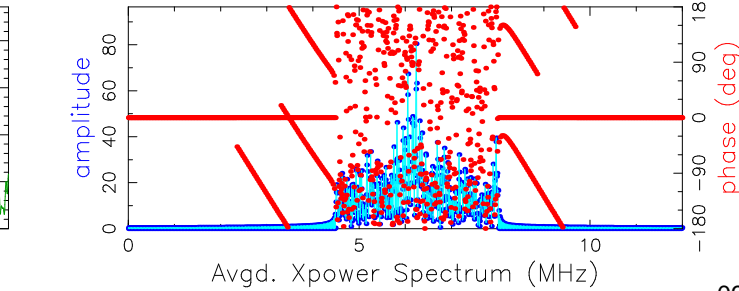
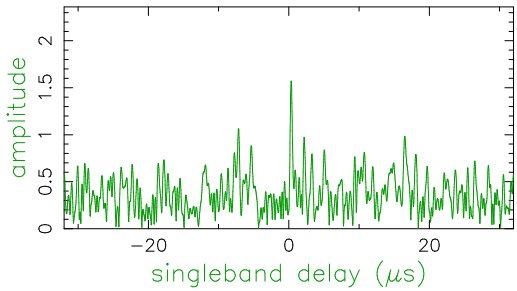
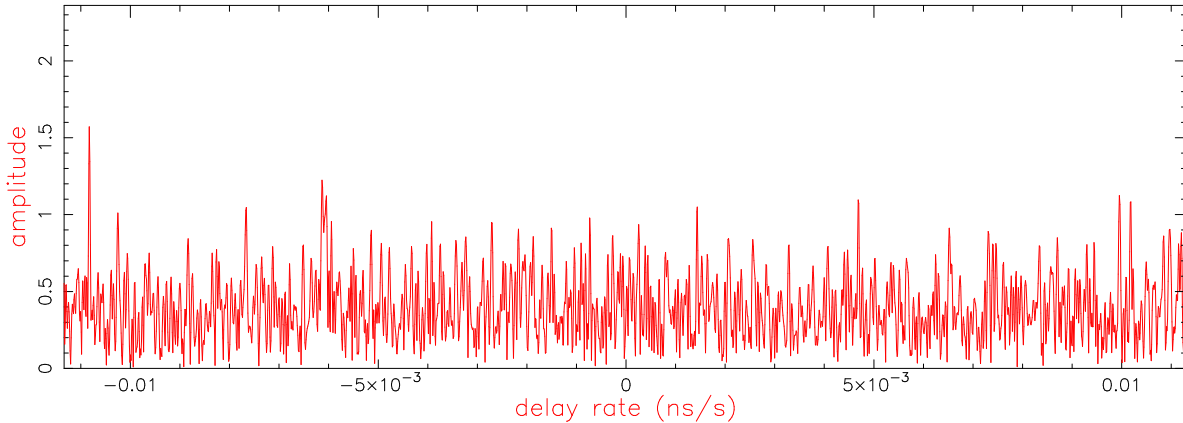
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.80090164555E+03	Apriori delay (usec)	-6.80081300018E+03	Resid mbdelay (usec)	4.35256E-06	+/-	5.0E-03
Sband delay (usec)	-6.80090164151E+03	Apriori clock (usec)	-2.1113633E+03	Resid sbdelay (usec)	-8.86413E-02	+/-	5.0E-03
Phase delay (usec)	-6.80081300217E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.98801E-06	+/-	4.0E-07
Delay rate (us/s)	-1.12807812177E+00	Apriori rate (us/s)	-1.12808733431E+00	Resid rate (us/s)	9.21254E-06	+/-	2.3E-09
Total phase (deg)	254.1	Apriori accel (us/s/s)	2.91118539606E-06	Resid phase (deg)	194.9	+/-	12.4

ph/seg (deg)	RMS 92.8	Theor. 105.9	Amplitude Search (2048X8)	1.703 +/- 0.184	1.265	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.2	184.9	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	6.2	Inc. seg. avg.	0.884	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.693	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	nlags: 1536 t_cohere infinite

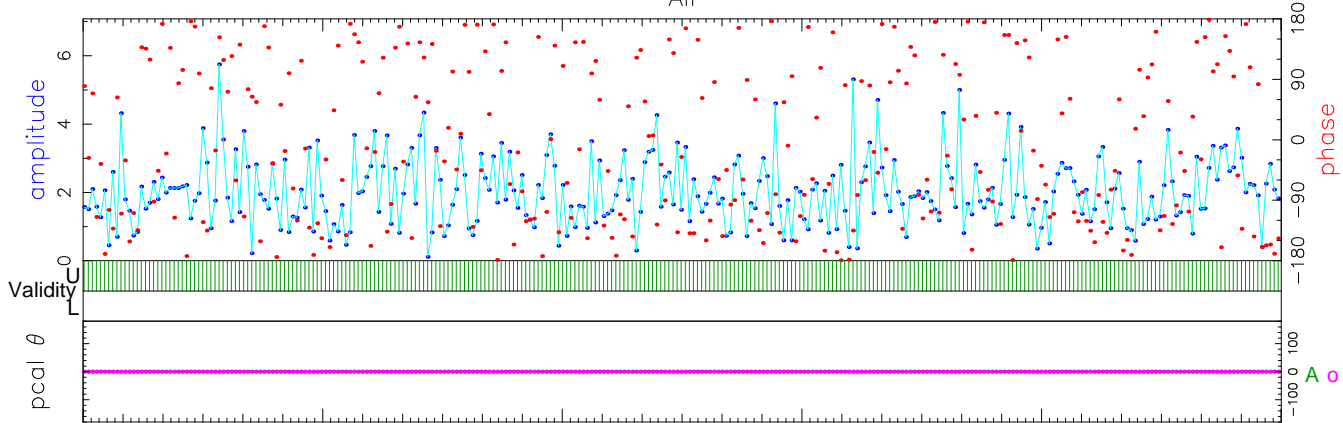
A: az 311.0 el 41.2 pa 135.0 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 6601.586 -8594.212 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ao..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ao.W.40.1T5H2H

Fringe quality 7



SNR 11.4  
Int time 299.951  
Amp 2.361  
Phase -259.5  
PFD 1.0e-22  
Delays (us)  
SBD 0.336300  
MBD -0.000006  
Fringe rate (Hz)  
-0.931930  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-166.3  
0.7  
1553.1  
U/L 586/0  
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

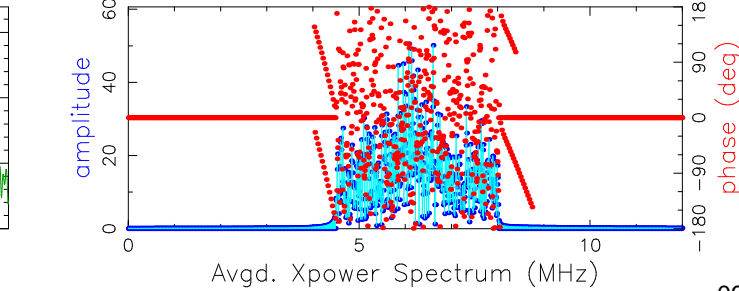
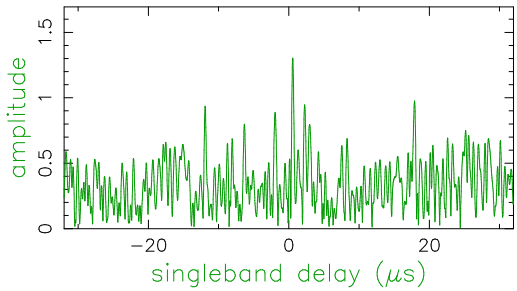
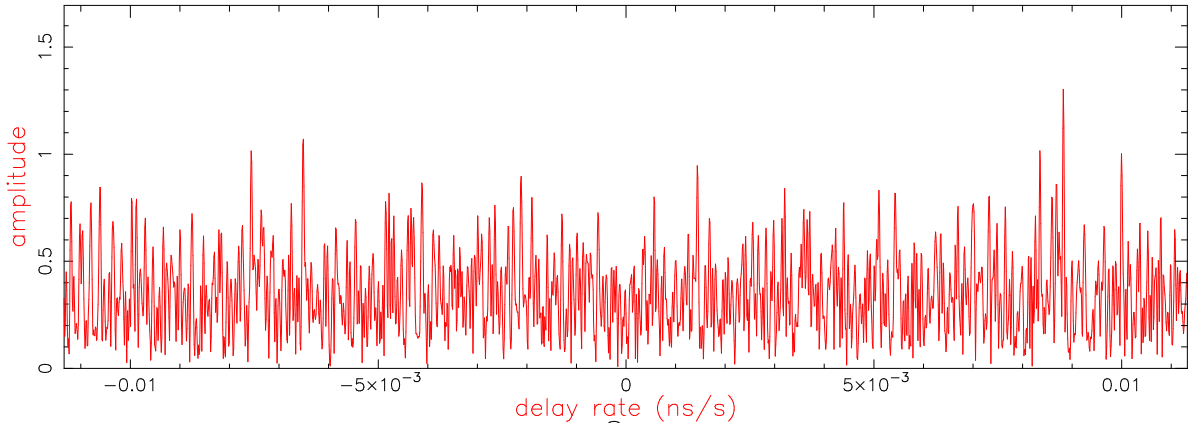
Group delay (usec)(sbd)	-6.80047669575E+03	Apriori delay (usec)	-6.80081300018E+03	Resid mbdelay (usec)	-5.54675E-06	+/- 4.0E-03
Sband delay (usec)	-6.80047670018E+03	Apriori clock (usec)	-2.1113633E+03	Resid sbdelay (usec)	3.36300E-01	+/- 4.0E-03
Phase delay (usec)	-6.80081300554E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-5.36256E-06	+/- 3.2E-07
Delay rate (us/s)	-1.12809815309E+00	Apriori rate (us/s)	-1.12808733431E+00	Resid rate (us/s)	-1.08188E-05	+/- 1.9E-09
Total phase (deg)	-200.3	Apriori accel (us/s/s)	2.91118539606E-06	Resid phase (deg)	-259.5	+/- 10.1

ph/seg (deg)	RMS 88.1	Theor. 86.1	Amplitude Search (2048X8)	2.361 +/- 0.207	1.559	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.2	150.3	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	5.0	Inc. seg. avg.	1.433	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	8.8	Inc. frq. avg.	2.352	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			A: az 311.0 el 41.2 pa 135.0	o: az 148.4 el 60.7 pa -24.7	u,v (fr/asec) 6601.586 -8594.212	ion window (TEC) 0.00 0.00	

simultaneous interpolator

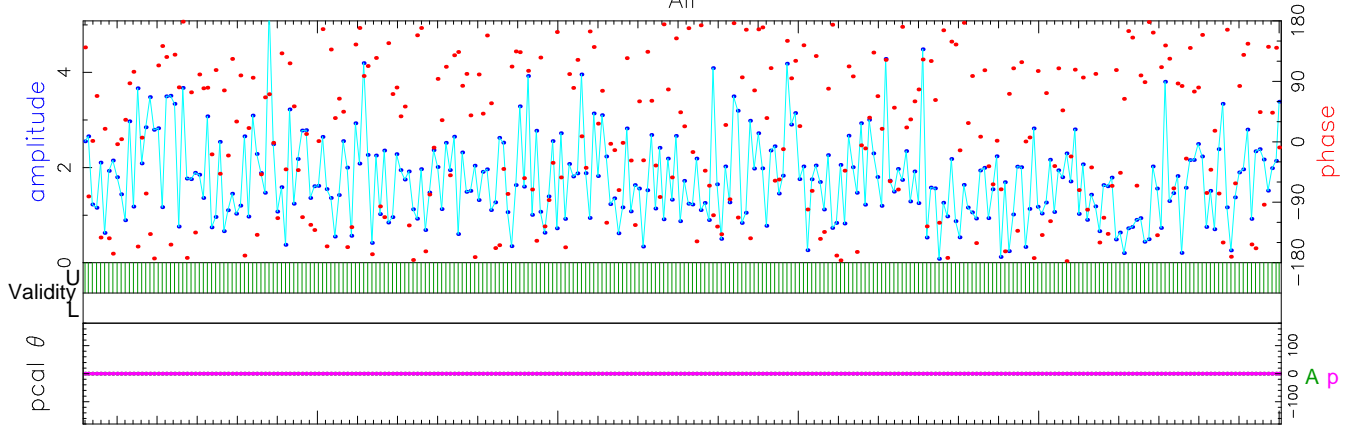
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ao..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ao.W.55.1T5H2H

Fringe quality 8



SNR 9.4  
Int time 297.971  
Amp 1.695  
Phase -20.8  
PFD 8.3e-14  
Delays (us)  
SBD 0.556487  
MBD 0.000005  
Fringe rate (Hz) 0.759274  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



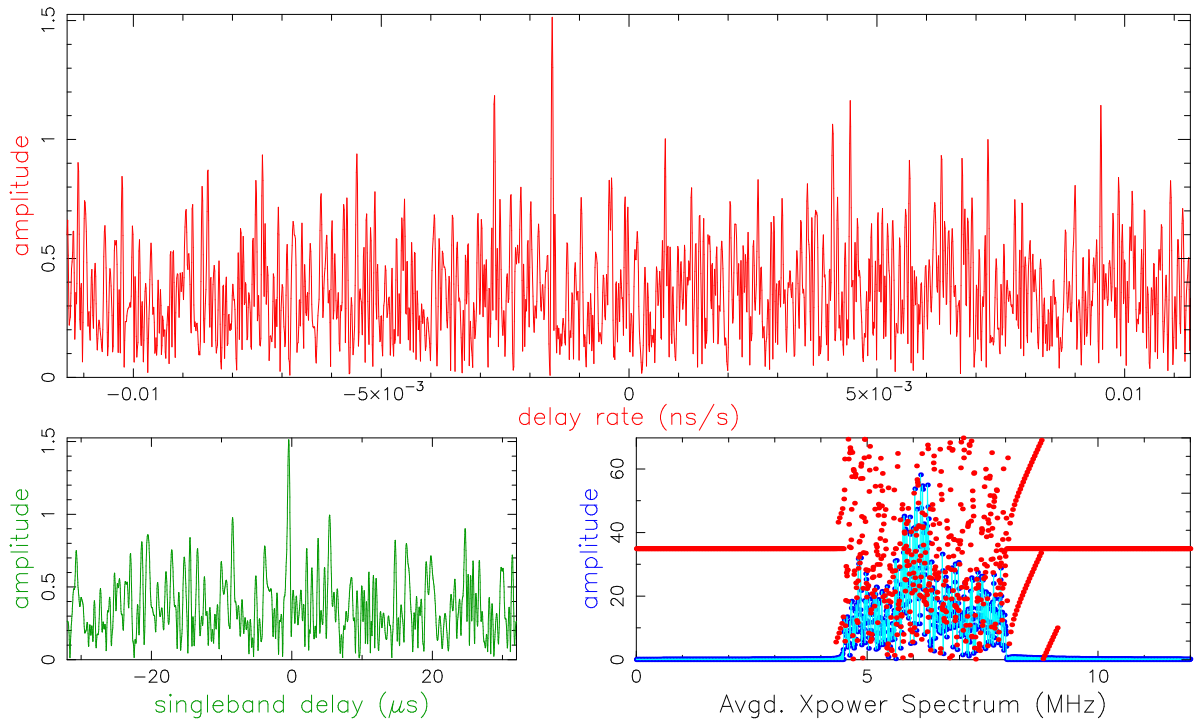
86227.00  
128.3  
0.5  
1563.7  
U/L 583/0  
A 0  
p 0  
A:p 0:0  
A:p 0:0  
A 1000  
p 1000  
A W03UX  
p W03UL

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)	-7.73603500649E+03	Apriori delay (usec)	-7.73659149611E+03	Resid mbdelay (usec)	4.99574E-06	+/-	4.9E-03
Sband delay (usec)	-7.73603500944E+03	Apriori clock (usec)	-2.1131394E+03	Resid sbdelay (usec)	5.56487E-01	+/-	4.9E-03
Phase delay (usec)	-7.73659149197E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.13812E-06	+/-	3.9E-07
Delay rate (us/s)	-9.19719408715E-01	Apriori rate (us/s)	-9.19728223135E-01	Resid rate (us/s)	8.81442E-06	+/-	2.3E-09
Total phase (deg)	-191.7	Apriori accel (us/s/s)	8.79494504849E-06	Resid phase (deg)	-20.8	+/-	12.2

ph/seg (deg)	RMS 95.2	Theor. 103.9	Amplitude Search (2048X8)	1.695 +/- 0.180	1.291	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	181.3	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	6.1	Inc. seg. avg.	0.867	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.6	Inc. frq. avg.	1.684	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			A: az 311.0 el 41.2 pa 135.0		u,v (fr/asec) 5389.168 -8140.840		ion window (TEC) 0.00 0.00
			p: az 167.6 el 66.6 pa -9.4		simultaneous interpolator		

Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/Ap..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/Ap.W.22.1T5H2H

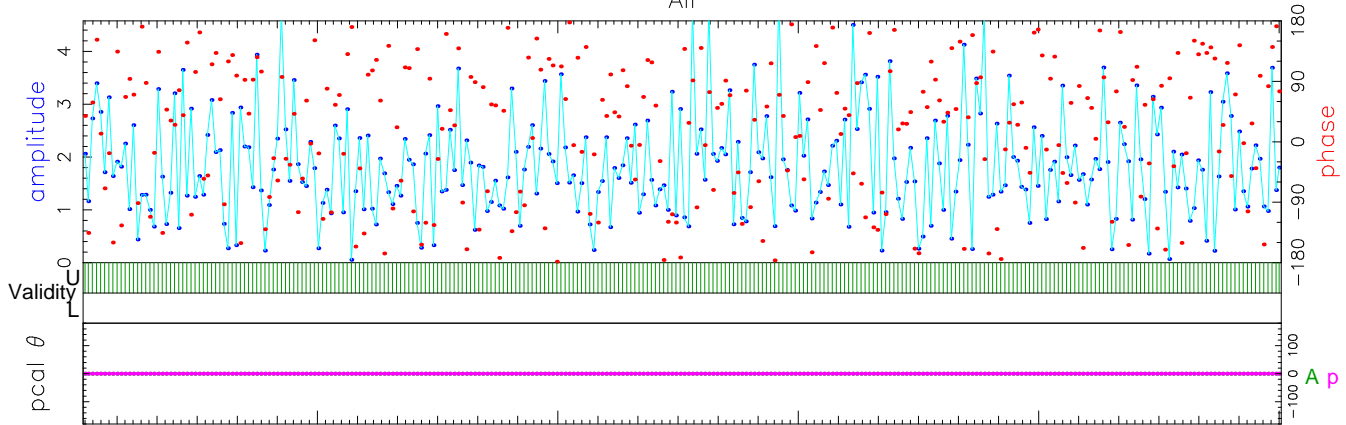


Fringe quality 7

SNR 10.9  
Int time 297.974  
Amp 1.526  
Phase 168.5  
PFD 1.6e-20  
Delays (us)  
SBD -0.439511  
MBD -0.000006  
Fringe rate (Hz)  
-0.133767  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
83.3  
0.4  
1515.9  
U/L 583/0  
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  
Manl PC  
PC amp

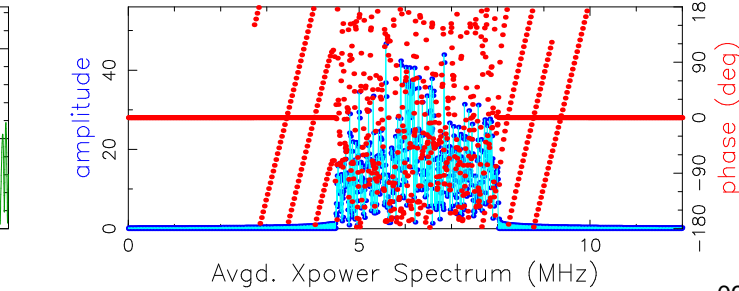
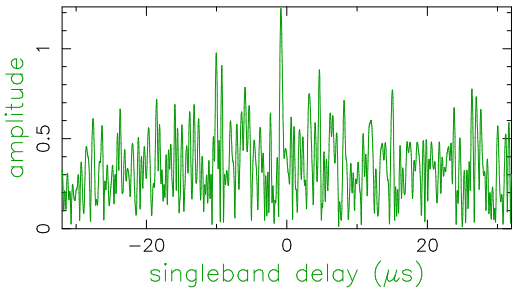
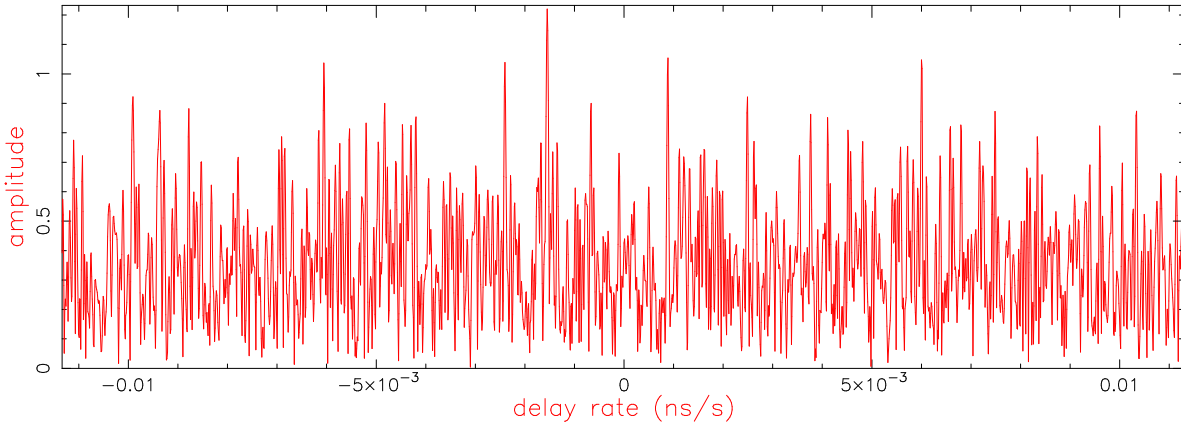
Chan ids  
Chan ids

Group delay (usec)(sbd)	-7.73703100531E+03	Apriori delay (usec)	-7.73659149611E+03	Resid mbdelay (usec)	-6.48938E-06	+/-	4.2E-03
Sband delay (usec)	-7.73703100678E+03	Apriori clock (usec)	-2.1131394E+03	Resid sbdelay (usec)	-4.39511E-01	+/-	4.2E-03
Phase delay (usec)	-7.73659149342E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.68476E-06	+/-	3.4E-07
Delay rate (us/s)	-9.19729776039E-01	Apriori rate (us/s)	-9.19728223135E-01	Resid rate (us/s)	-1.55290E-06	+/-	2.0E-09
Total phase (deg)	357.5	Apriori accel (us/s/s)	8.79494504849E-06	Resid phase (deg)	168.5	+/-	10.5

ph/seg (deg)	RMS 92.9	Theor. 89.5	Amplitude Search (2048X8)	1.526 +/- 0.139	1.486	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.9	156.2	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	5.2	Inc. seg. avg.	0.840	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	9.1	Inc. frq. avg.	1.519	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				A: az 311.0 el 41.2 pa 135.0	p: az 167.6 el 66.6 pa -9.4	u,v (fr/asec) 5389.168 -8140.840	ion window (TEC) 0.00 0.00

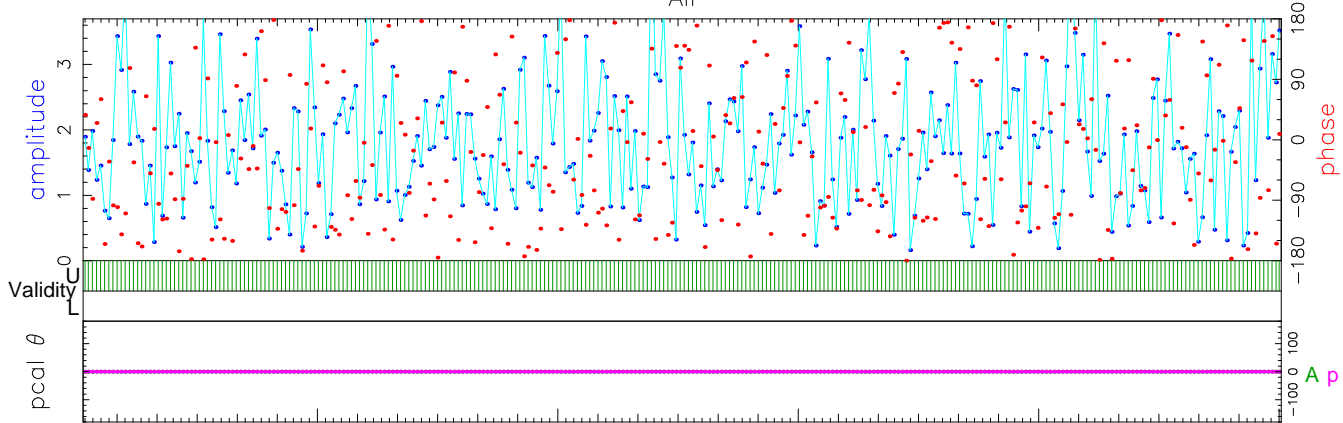


Fringe quality 8



SNR 8.8  
Int time 297.971  
Amp 1.233  
Phase 269.9  
PFD 1.7e-11  
Delays (us)  
SBD -0.839431  
MBD -0.000005  
Fringe rate (Hz)  
-0.133005  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



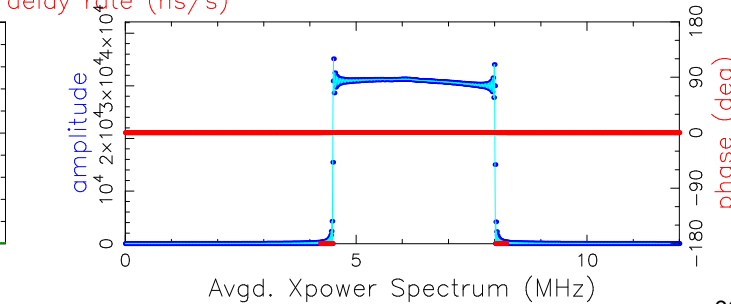
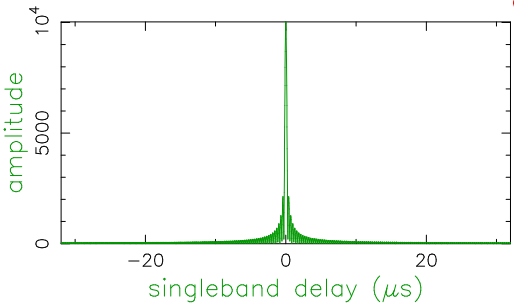
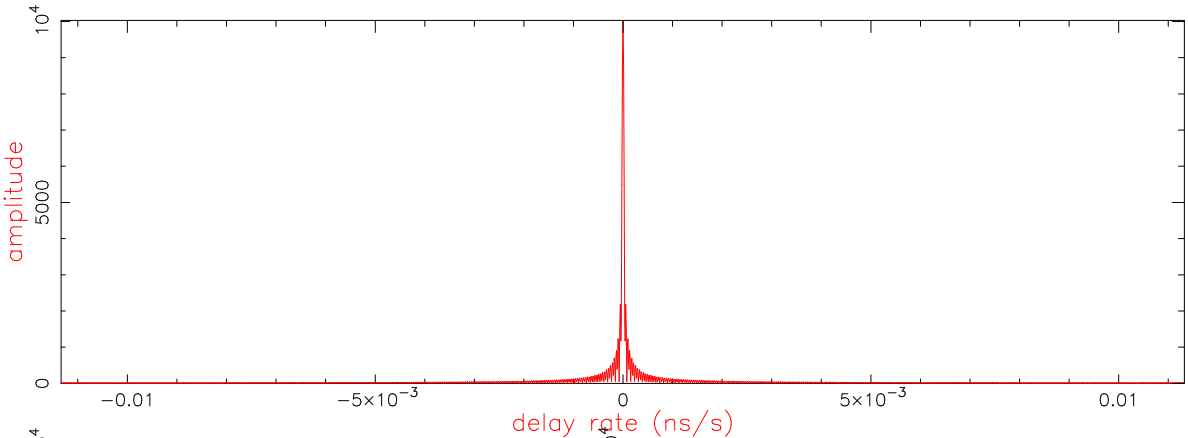
86227.00  
-100.9  
0.4  
1496.7  
U/L 583/0  
A 0  
p 0  
A:p 0:0  
A:p 0:0  
A 1000  
p 1000  
A W03UX  
p W03UR

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)	-7.73743092479E+03	Apriori delay (usec)	-7.73659149611E+03	Resid mbdelay (usec)	-4.83013E-06	+/-	5.2E-03
Sband delay (usec)	-7.73743092678E+03	Apriori clock (usec)	-2.1131394E+03	Resid sbdelay (usec)	-8.39431E-01	+/-	5.2E-03
Phase delay (usec)	-7.73659149936E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.25294E-06	+/-	4.2E-07
Delay rate (us/s)	-9.19729767197E-01	Apriori rate (us/s)	-9.19728223135E-01	Resid rate (us/s)	-1.54406E-06	+/-	2.4E-09
Total phase (deg)	98.9	Apriori accel (us/s/s)	8.79494504849E-06	Resid phase (deg)	269.9	+/-	13.0

ph/seg (deg)	RMS 92.7	Theor. 110.8	Amplitude Search (2048X8)	1.233 +/- 0.139	1.203	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	92.9	193.3	Interp.	0.000	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.	0.639	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.222	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
				A: az 311.0 el 41.2 pa 135.0	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00
				p: az 167.6 el 66.6 pa -9.4	u,v (fr/asec) 5389.168 -8140.840			
				simultaneous interpolator				



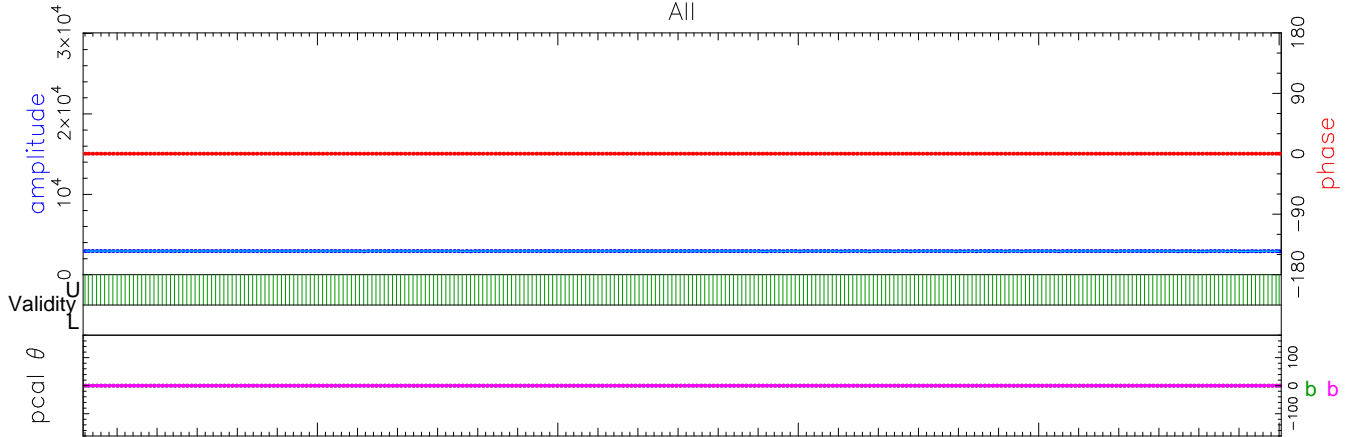


Fringe quality 5

SNR 72489.6  
Int time 297.977  
Amp 10030.696  
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 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



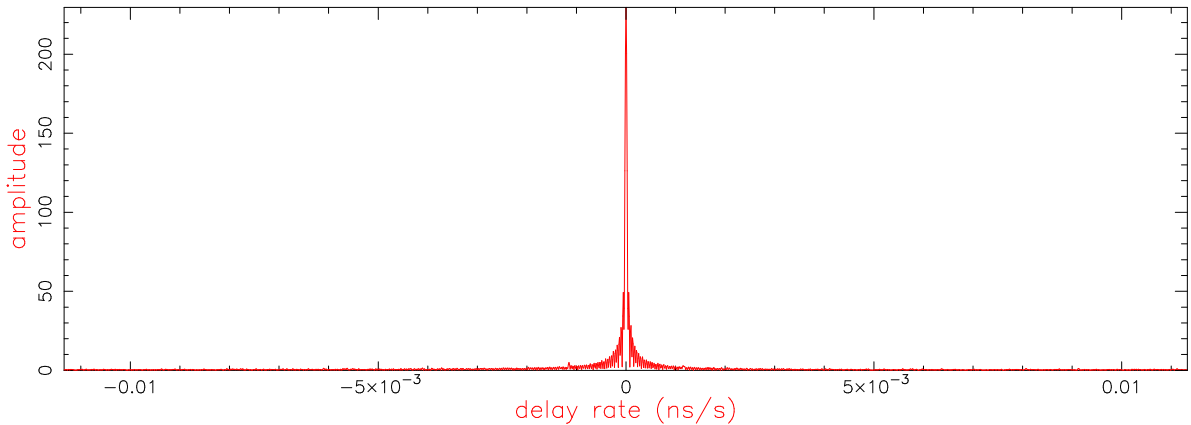
86227.00  
0.2  
2938.7  
1537.0  
U/L 583/0  
b 0  
b 0  
b:b 0:0  
b:b 0:0  
b 1000  
b 1000  
b W03UR  
b W03UR

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)	4.40697229406E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.19032E-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)	7.76294473121E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.76294E-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)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

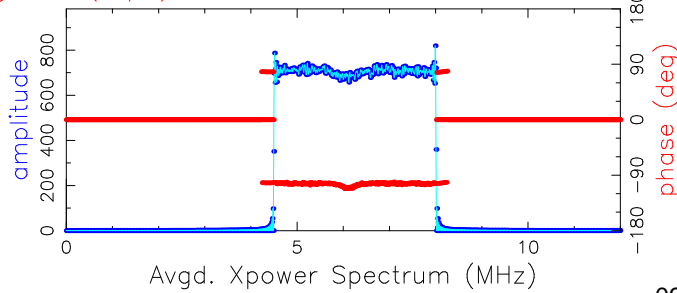
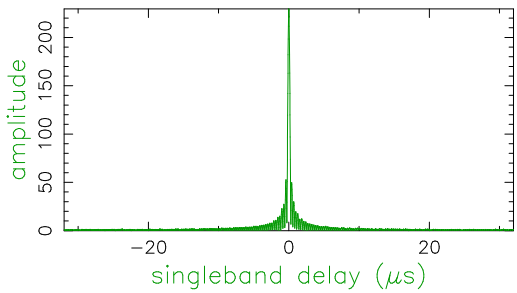
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10030.696 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10030.696	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2938.680	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10030.696	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

b: az 153.8 el 50.7 pa -17.9      b: az 153.8 el 50.7 pa -17.9      u,v (fr/asec) 0.000 0.000      simultaneous interpolator  
Control file: cf\_1234\_gmva\_line      Input file: /Exps/c211d/v1/LINES1/1234/No0021/bb..1T5H2H      Output file: /Exps/c211d/v1/LINES1/1234/No0021/bb.W.10.1T5H2H



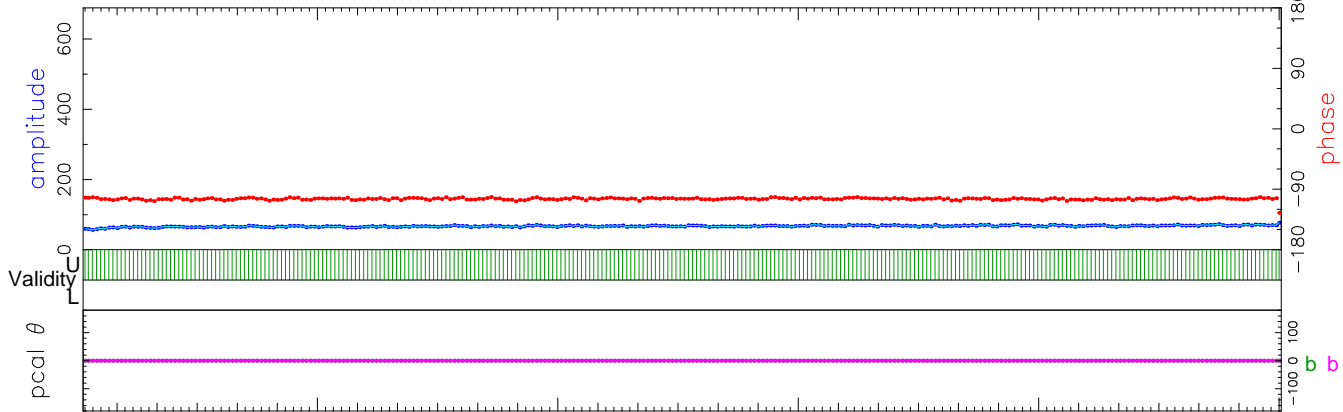
Fringe quality 5

SNR 1659.3  
Int time 297.977  
Amp 229.599  
Phase -102.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.000048  
MBD -0.000006  
Fringe rate (Hz)  
0.000032  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-104.2  
67.3  
1537.0  
U/L 583/0  
b 0  
b 0  
b:b 0:0  
b:b 0:0  
b 1000  
b 1000  
b W03UL  
b W03UR

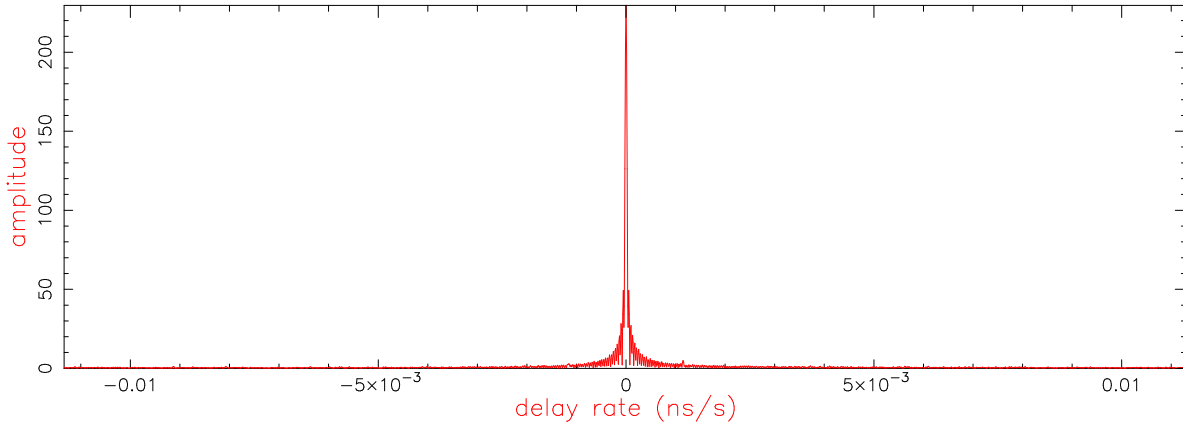
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.23948183284E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.00564E-06	+/-	2.8E-05
Sband delay (usec)	-4.80000000000E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-4.80000E-05	+/-	2.8E-05
Phase delay (usec)	-3.36135653258E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.36136E-06	+/-	2.2E-09
Delay rate (us/s)	3.72701307901E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.72701E-10	+/-	1.3E-11
Total phase (deg)	-102.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-102.8	+/-	0.1

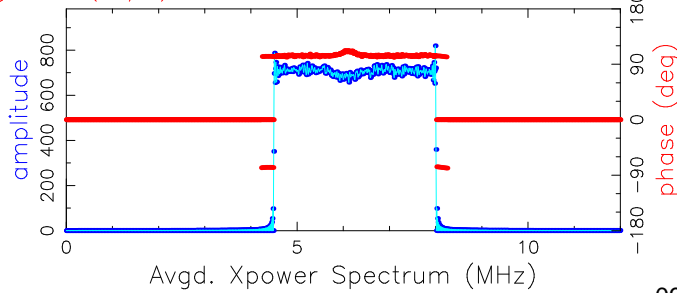
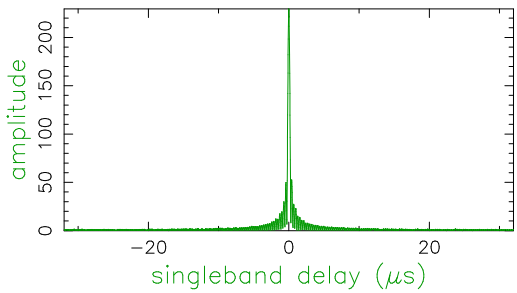
ph/seg (deg)	1.5	Theor.	0.6	Amplitude	229.599 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.0	Search (2048X8)	229.565	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	67.286	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	229.599	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

b: az 153.8 el 50.7 pa -17.9      b: az 153.8 el 50.7 pa -17.9      u,v (fr/asec) 0.000 0.000      simultaneous interpolator  
Control file: cf\_1234\_gmva\_line      Input file: /Exps/c211d/v1/LINES1/1234/No0021/bb..1T5H2H      Output file: /Exps/c211d/v1/LINES1/1234/No0021/bb.W.18.1T5H2H

Fringe quality 5

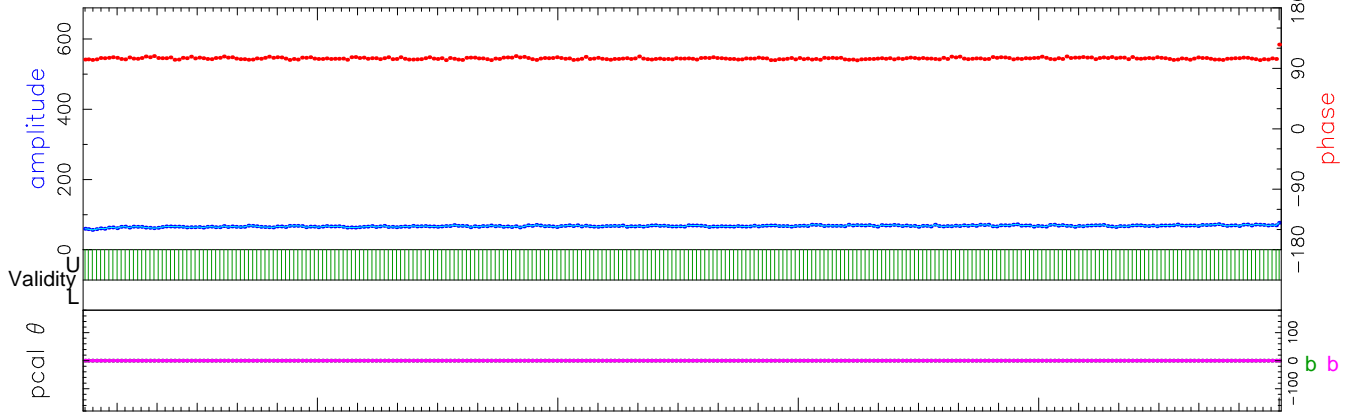


SNR 1659.3  
Int time 297.977  
Amp 229.599  
Phase 102.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.000048  
MBD -0.000007  
Fringe rate (Hz)  
-0.000032  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

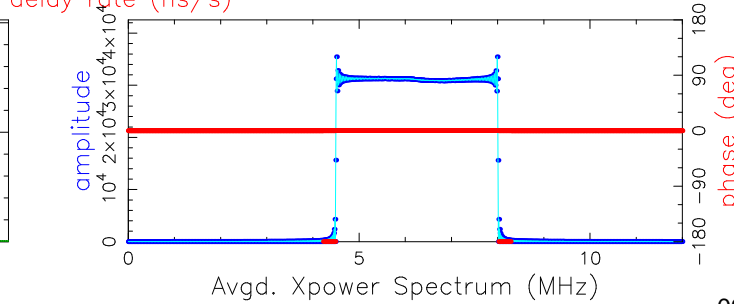
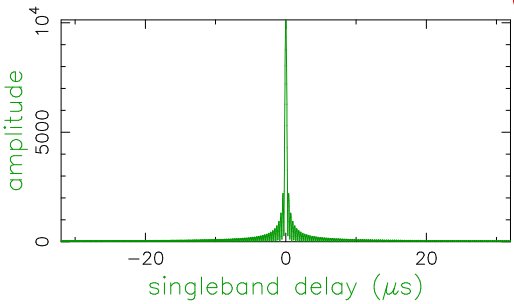
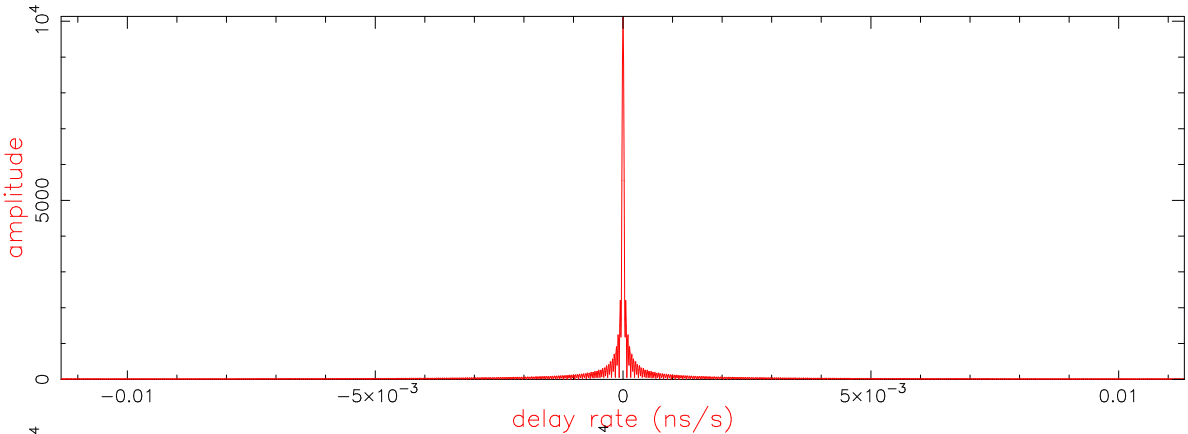


86227.00  
104.7  
67.3  
1537.0  
U/L 583/0  
b 0  
b 0  
b:b 0:0  
b:b 0:0  
b 1000  
b 1000  
b W03UR  
b W03UL

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)	5.07416470479E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24483E-06	+/- 2.8E-05
Sband delay (usec)	4.80000000000E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.80000E-05	+/- 2.8E-05
Phase delay (usec)	3.37566223748E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.37566E-06	+/- 2.2E-09
Delay rate (us/s)	-3.72701307901E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.72701E-10	+/- 1.3E-11
Total phase (deg)	102.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	102.9	+/- 0.1

ph/seg (deg) 1.5 0.6 RMS Theor. Amplitude 229.599 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 70.7 1.0 Search (2048X8) 229.565 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. 67.286 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011  
b: az 153.8 el 50.7 pa -17.9 b: az 153.8 el 50.7 pa -17.9 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/No0021/bb..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bb.W.37.1T5H2H simultaneous interpolator

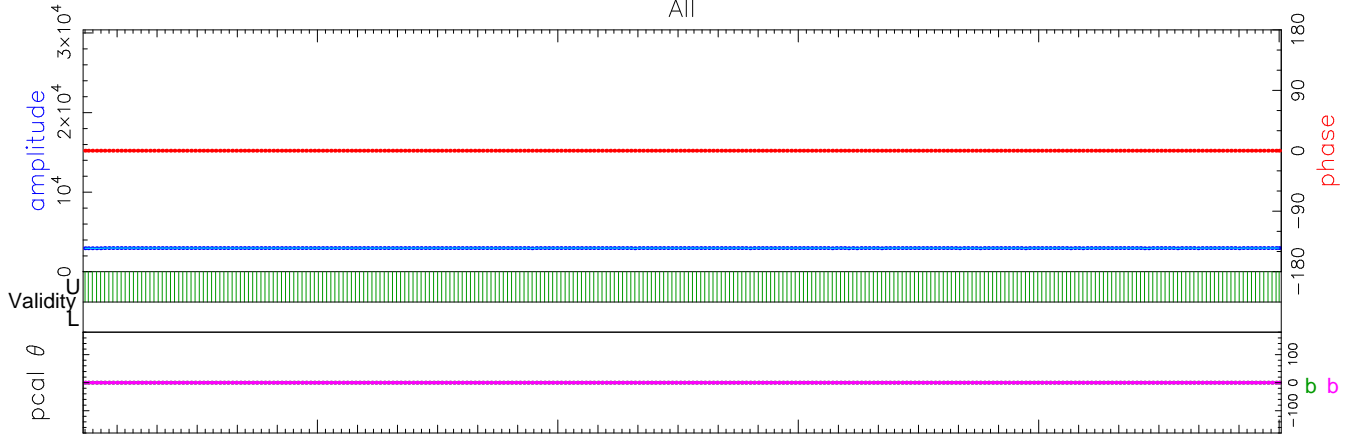


Fringe quality 5

SNR 73252.4  
Int time 297.977  
Amp 10136.251  
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 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

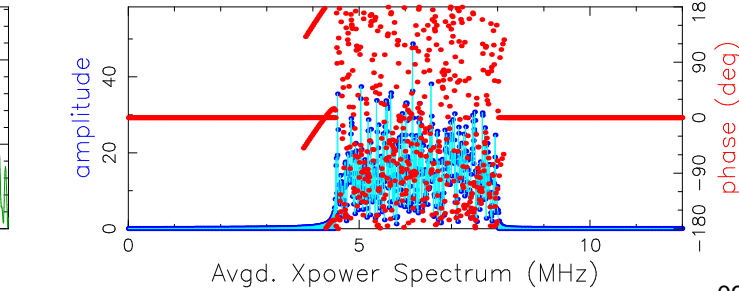
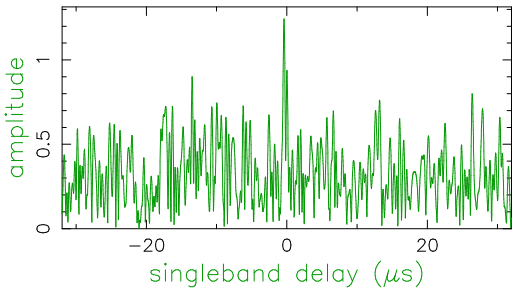
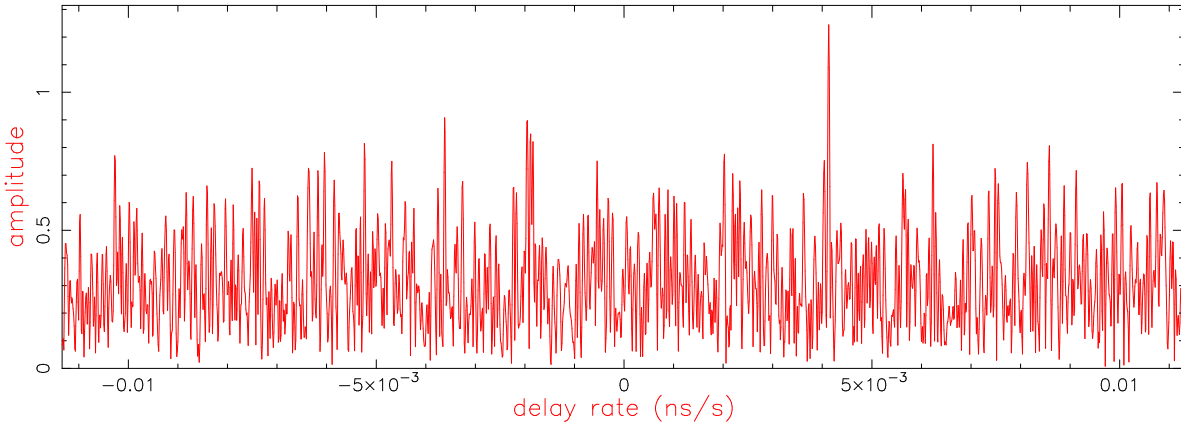


86227.00		Freq (MHz)
0.2		Phase
2969.6		Ampl.
1537.0		Sbd box
U/L 583/0		APs used
b 0		PC freqs
b 0		PC freqs
b:b 0:0		PC phase
b:b 0:0		ManI PC
b 1000		PC amp
b 1000		
b W03UL		Chan ids
b W03UL		Chan ids

Group delay (usec)(sbd)	4.34958887587E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24771E-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)	7.82489803851E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82490E-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

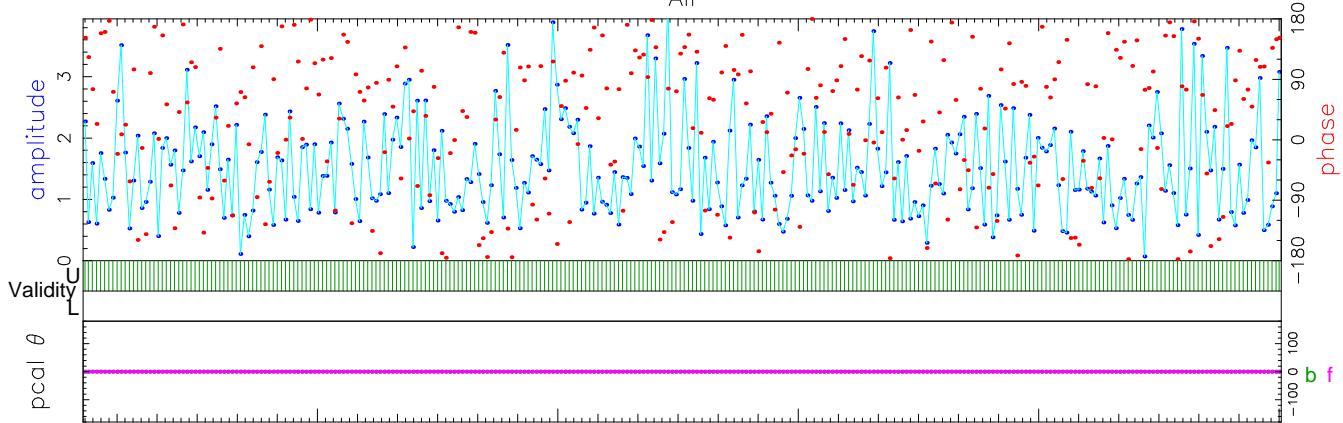
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10136.251 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10136.251	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2969.605	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	10136.251	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 9.0  
Int time 297.977  
Amp 1.315  
Phase 217.1  
PFD 4.4e-12  
Delays (us)  
SBD -0.394661  
MBD 0.000006  
Fringe rate (Hz)  
0.355235  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
96.1  
0.4  
1518.0  
U/L 583/0  
b 0  
f 0  
b:f 0:0  
b:f 0:0  
b 1000  
f 1000  
b W03UR  
f W03UR

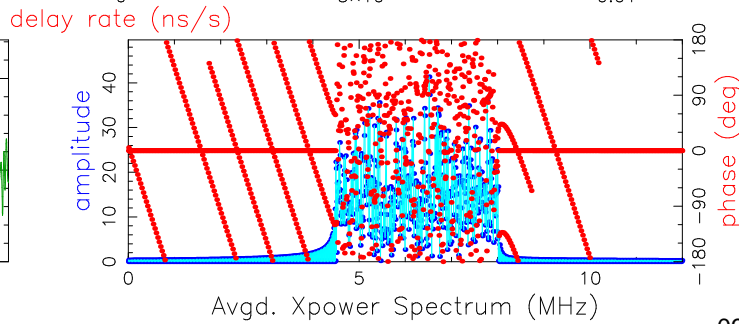
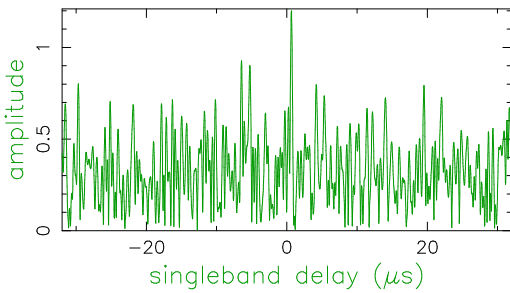
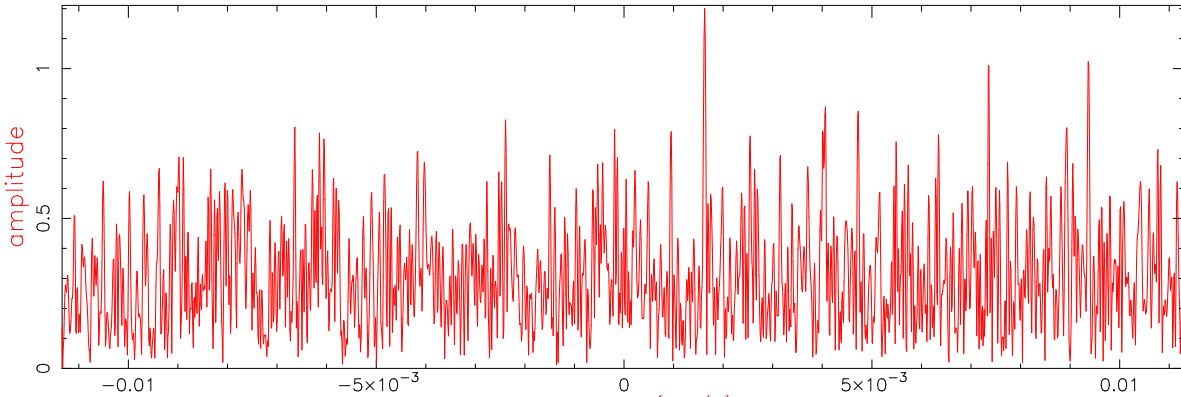
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-3.58978088202E+03	Apriori delay (usec)	-3.58938622002E+03	Resid mbdelay (usec)	5.57060E-06	+/-	5.1E-03
Sband delay (usec)	-3.58978088136E+03	Apriori clock (usec)	-1.3252836E+01	Resid sbdelay (usec)	-3.94661E-01	+/-	5.1E-03
Phase delay (usec)	-3.58938621692E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	3.09832E-06	+/-	4.1E-07
Delay rate (us/s)	2.74779586217E-01	Apriori rate (us/s)	2.74775462296E-01	Resid rate (us/s)	4.12392E-06	+/-	2.4E-09
Total phase (deg)	219.7	Apriori accel (us/s/s)	2.42251953845E-05	Resid phase (deg)	217.1	+/-	12.7

ph/seg (deg)	88.4	Theor.	108.9	Amplitude	1.315 +/- 0.146	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	67.2	Search (2048X8)	1.195	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.	0.574	Inc. frq. avg.	1.307	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.307			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			

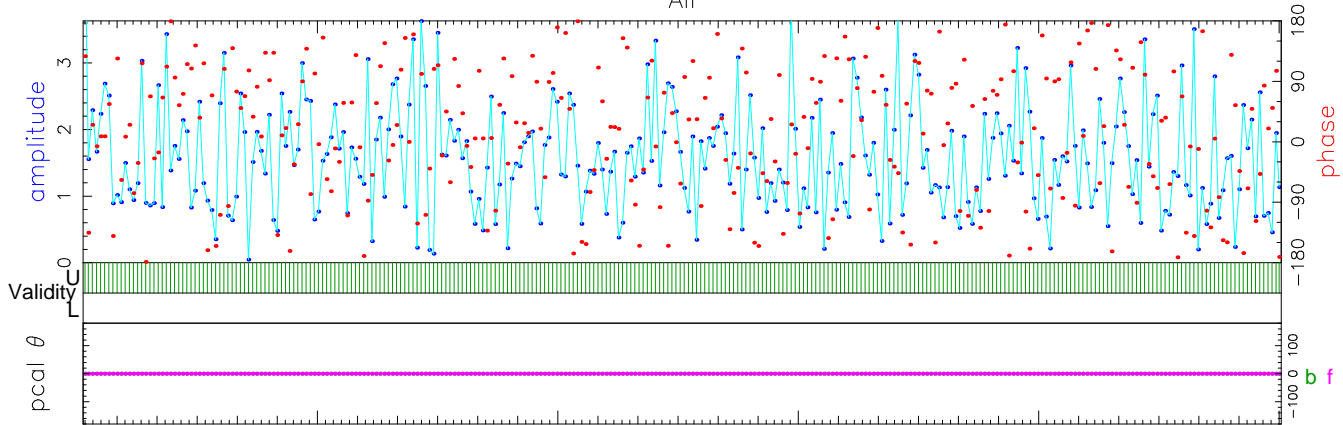
b: az 153.8 el 50.7 pa -17.9 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) -1586.630 2424.898 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bf..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bf.W.14.1T5H2H

Fringe quality 8



SNR 8.7  
Int time 297.977  
Amp 1.211  
Phase -127.3  
PFD 7.2e-11  
Delays (us)  
SBD 0.649560  
MBD 0.000006  
Fringe rate (Hz)  
0.140053  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
56.7  
0.4  
1568.2  
U/L 583/0  
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

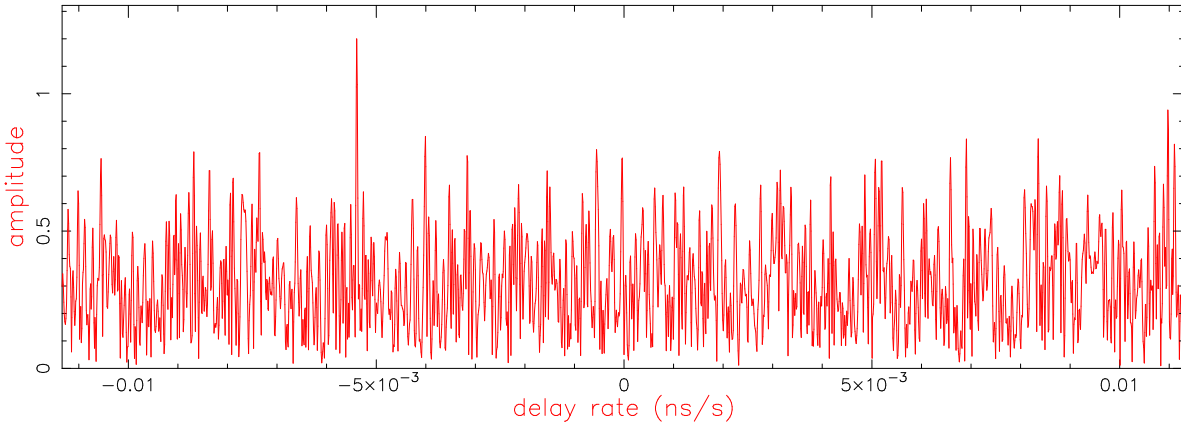
Group delay (usec)(sbd)	-3.58873666159E+03	Apriori delay (usec)	-3.58938622002E+03	Resid mbdelay (usec)	5.50612E-06	+/-	5.3E-03
Sband delay (usec)	-3.58873666002E+03	Apriori clock (usec)	-1.3252836E+01	Resid sbdelay (usec)	6.49560E-01	+/-	5.3E-03
Phase delay (usec)	-3.58938621819E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	1.82884E-06	+/-	4.3E-07
Delay rate (us/s)	2.74777088177E-01	Apriori rate (us/s)	2.74775462296E-01	Resid rate (us/s)	1.62588E-06	+/-	2.5E-09
Total phase (deg)	-124.7	Apriori accel (us/s/s)	2.42251953845E-05	Resid phase (deg)	-127.3	+/-	13.2

ph/seg (deg)	RMS 92.6	Theor. 112.8	Amplitude Search (2048X8)	1.211 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.8	196.9	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.	0.543	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.	1.202	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

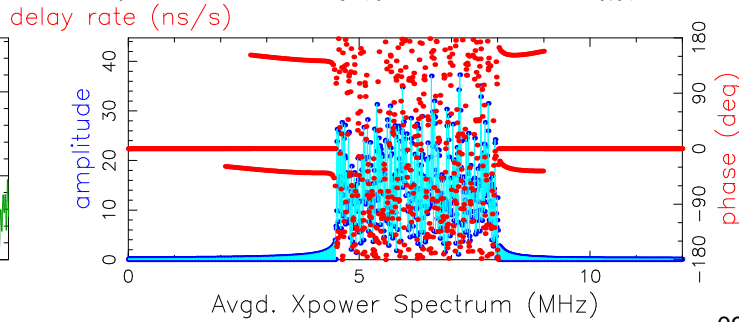
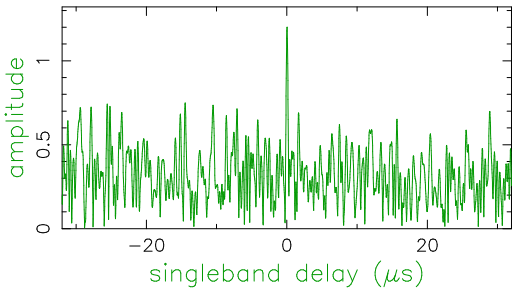
b: az 153.8 el 50.7 pa -17.9 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) -1586.630 2424.898 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bf..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bf.W.38.1T5H2H



Fringe quality 8

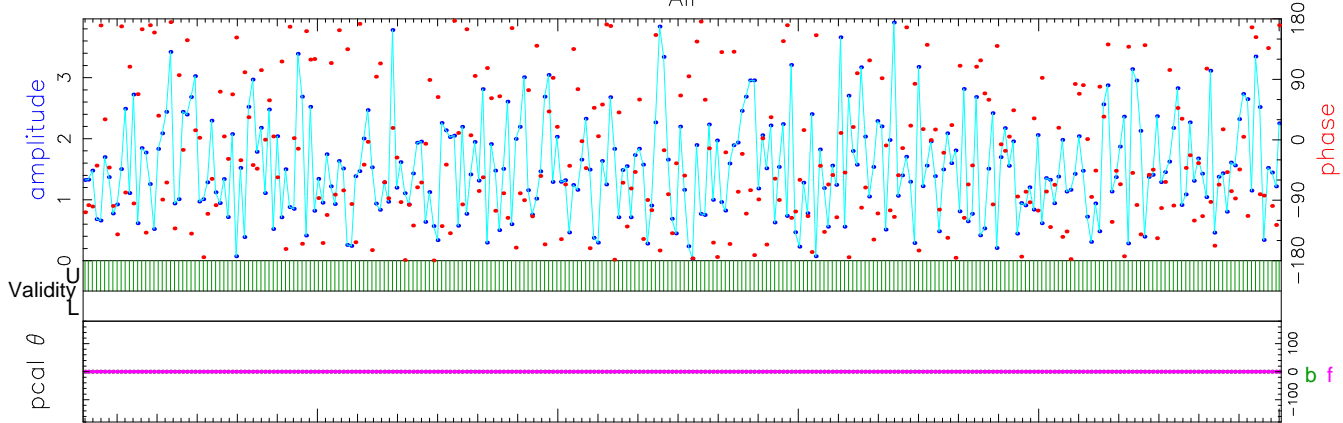


SNR 8.7  
Int time 297.977  
Amp 1.321  
Phase -339.4  
PFD 6.4e-11  
Delays (us)  
SBD 0.030995  
MBD -0.000007  
Fringe rate (Hz)  
-0.463584  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-88.5  
0.4  
1538.5  
U/L 583/0  
b 0  
f 0  
b:f 0:0  
b:f 0:0  
b 1000  
f 1000  
b W03UR  
f W03UL

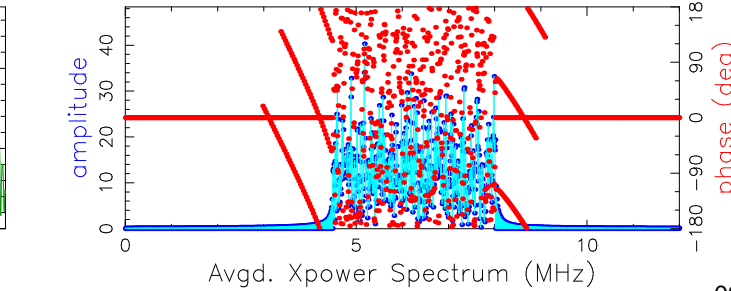
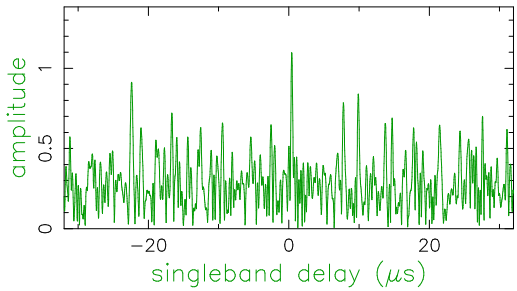
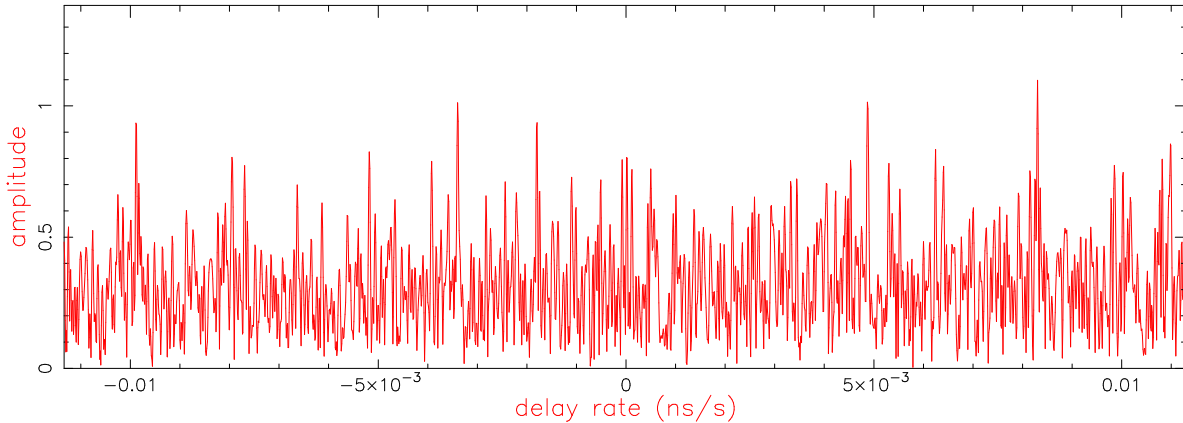
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-3.58935522707E+03	Apriori delay (usec)	-3.58938622002E+03	Resid mbdelay (usec)	-6.61482E-06	+/-	5.3E-03
Sband delay (usec)	-3.58935522536E+03	Apriori clock (usec)	-1.3252836E+01	Resid sbdelay (usec)	3.09947E-02	+/-	5.3E-03
Phase delay (usec)	-3.58938622288E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-2.85322E-06	+/-	4.3E-07
Delay rate (us/s)	2.74770080545E-01	Apriori rate (us/s)	2.74775462296E-01	Resid rate (us/s)	-5.38175E-06	+/-	2.5E-09
Total phase (deg)	-336.8	Apriori accel (us/s/s)	2.42251953845E-05	Resid phase (deg)	-339.4	+/-	13.2

ph/seg (deg)	RMS 92.6	Theor. 112.7	Amplitude Search (2048X8)	1.321 +/- 0.152	1.197	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.4	196.7	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	6.6	Inc. seg. avg.	0.577	0.577	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	11.5	Inc. frq. avg.	1.310	1.310	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

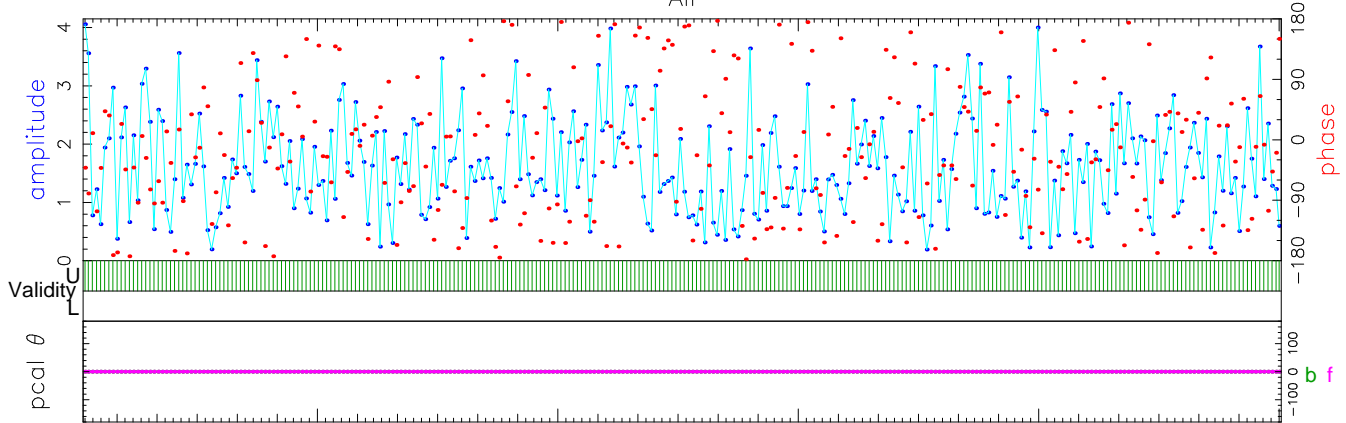
b: az 153.8 el 50.7 pa -17.9 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) -1586.630 2424.898 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bf..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bf.W.47.1T5H2H

Fringe quality 8



SNR 7.9  
Int time 297.977  
Amp 1.383  
Phase -248.4  
PFD 3.4e-08  
Delays (us)  
SBD 0.420444  
MBD 0.000004  
Fringe rate (Hz)  
0.714523  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052017  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-40.3  
0.4  
1557.2  
U/L 583/0  
b 0  
f 0  
b:f 0:0  
b:f 0:0  
b 1000  
f 1000  
b W03UL  
f W03UL

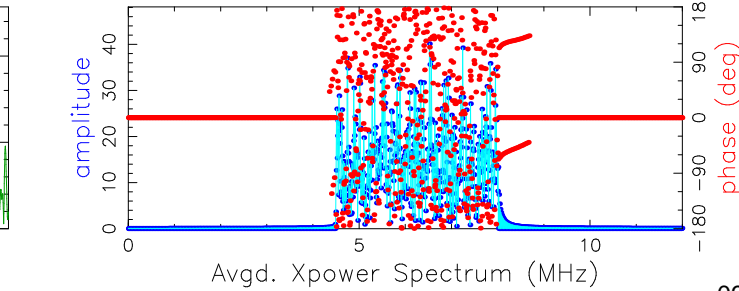
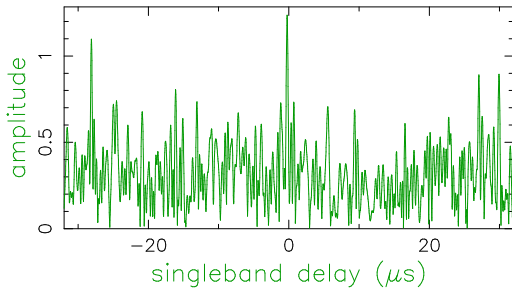
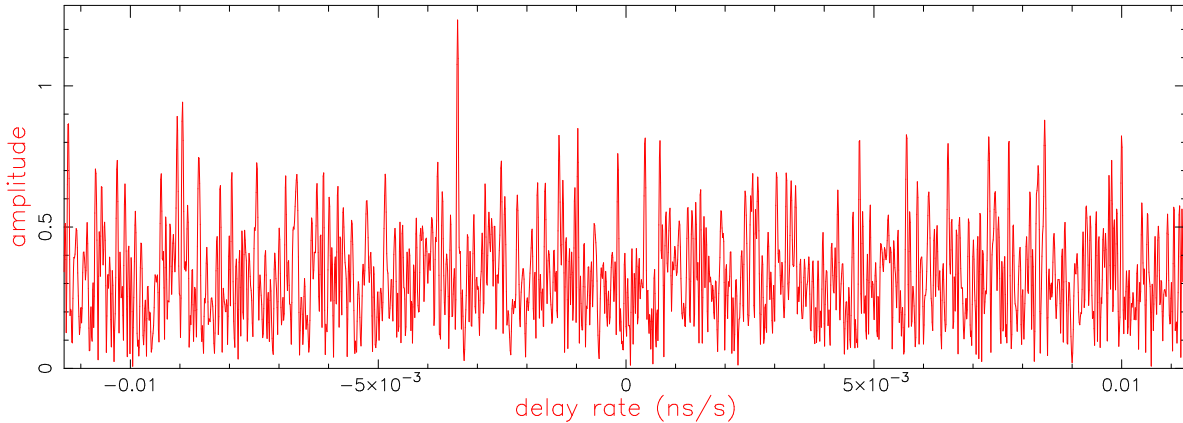
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-3.58896577892E+03	Apriori delay (usec)	-3.58938622002E+03	Resid mbdelay (usec)	4.35226E-06	+/-	5.8E-03
Sband delay (usec)	-3.58896577602E+03	Apriori clock (usec)	-1.3252836E+01	Resid sbdelay (usec)	4.20444E-01	+/-	5.8E-03
Phase delay (usec)	-3.58938622132E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-1.30004E-06	+/-	4.7E-07
Delay rate (us/s)	2.74783757203E-01	Apriori rate (us/s)	2.74775462296E-01	Resid rate (us/s)	8.29491E-06	+/-	2.7E-09
Total phase (deg)	-245.8	Apriori accel (us/s/s)	2.42251953845E-05	Resid phase (deg)	-248.4	+/-	14.4

ph/seg (deg)	RMS 92.9	Theor. 123.4	Amplitude Search (2048X8)	1.383 +/- 0.174	1.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.7	215.3	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.	0.619	0.619	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.372	1.372	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	

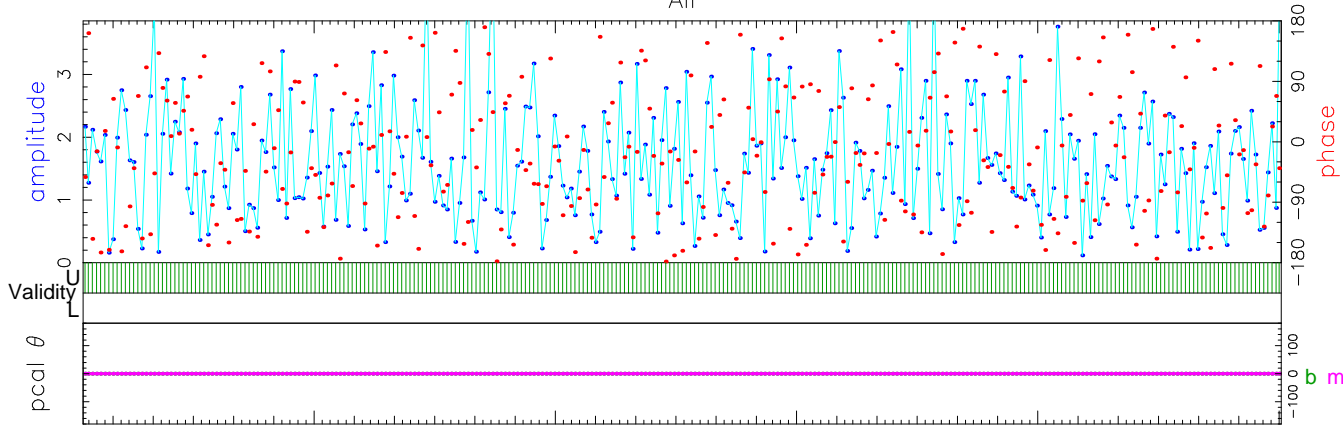
b: az 153.8 el 50.7 pa -17.9 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) -1586.630 2424.898 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bf..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bf.W.8.1T5H2H

Fringe quality 8



SNR 8.9  
Int time 296.980  
Amp 1.285  
Phase 32.1  
PFD 7.6e-12  
Delays (us)  
SBD -0.243249  
MBD -0.000005  
Fringe rate (Hz)  
-0.292237  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-26.3  
0.4  
1525.3  
U/L 581/0  
b 0  
m 0  
b:m 0:0  
b:m 0:0  
b 1000  
m 1000  
b W03UL  
m W03UL

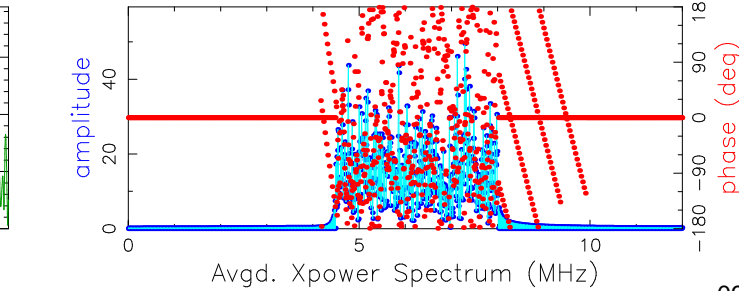
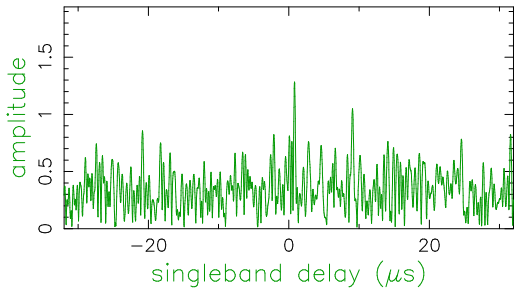
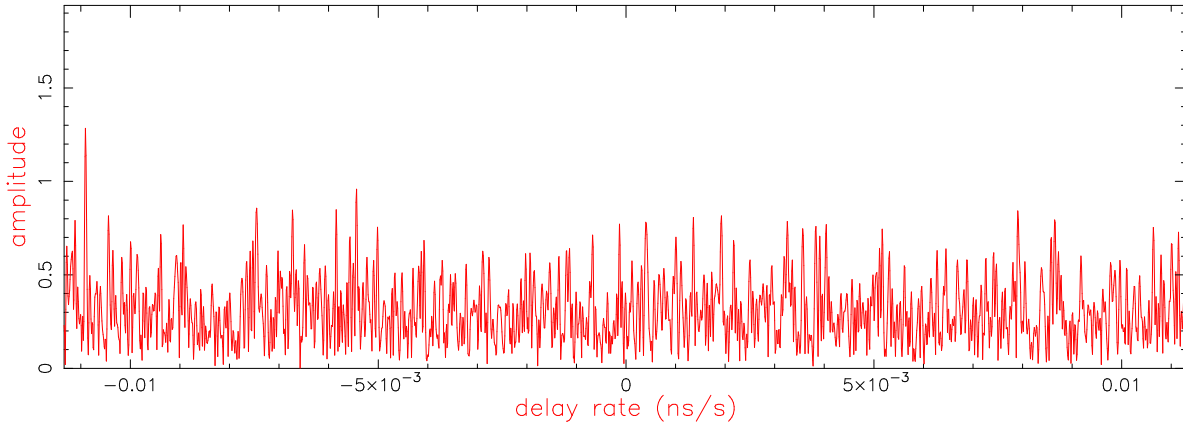
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	2.90973396974E+03	Apriori delay (usec)	2.90997721613E+03	Resid mbdelay (usec)	-4.71193E-06	+/-	5.1E-03
Sband delay (usec)	2.9097339680E+03	Apriori clock (usec)	-1.8708136E+01	Resid sbdelay (usec)	-2.43249E-01	+/-	5.1E-03
Phase delay (usec)	2.90997721528E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-8.46702E-07	+/-	4.1E-07
Delay rate (us/s)	-8.45135863444E-01	Apriori rate (us/s)	-8.45132470867E-01	Resid rate (us/s)	-3.39258E-06	+/-	2.4E-09
Total phase (deg)	175.1	Apriori accel (us/s/s)	-6.58783479706E-06	Resid phase (deg)	32.1	+/-	12.8

ph/seg (deg)	RMS 94.7	Theor. 109.4	Amplitude 1.285 +/- 0.144	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	82.1	191.0	Search (2048X8) 1.203	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	Interp. 0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	11.2	Inc. seg. avg. 0.593	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

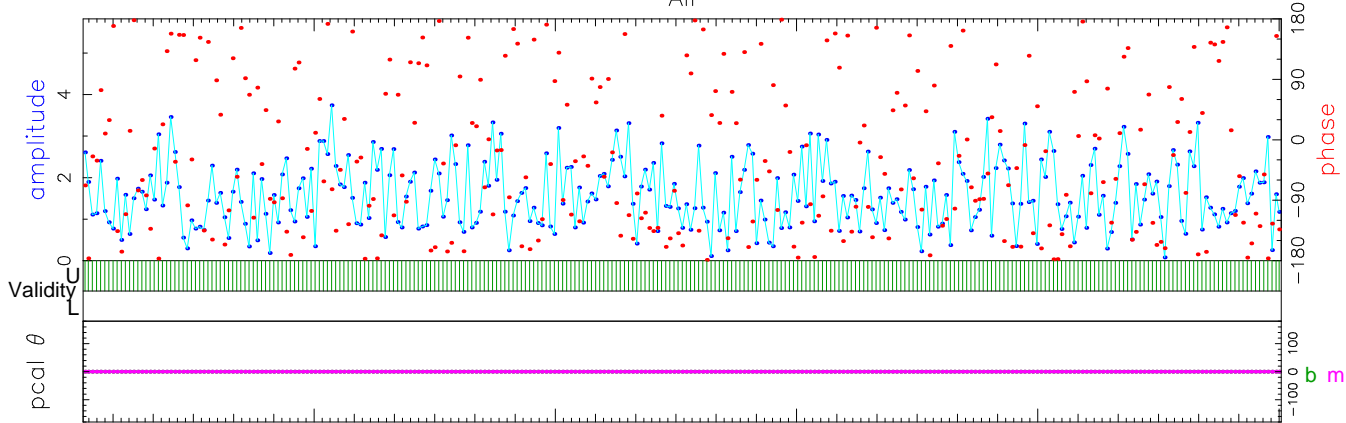
b: az 153.8 el 50.7 pa -17.9 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 4926.763 3413.588 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bm.W.15.1T5H2H

Fringe quality 8



SNR 9.3  
Int time 296.980  
Amp 1.941  
Phase -355.7  
PFD 3.7e-13  
Delays (us)  
SBD 0.811740  
MBD -0.000006  
Fringe rate (Hz)  
-0.938304  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-132.0  
0.6  
1576.0  
U/L 581/0  
b 0  
m 0  
b:m 0:0  
b:m 0:0  
b 1000  
m 1000  
b W03UR  
m W03UR

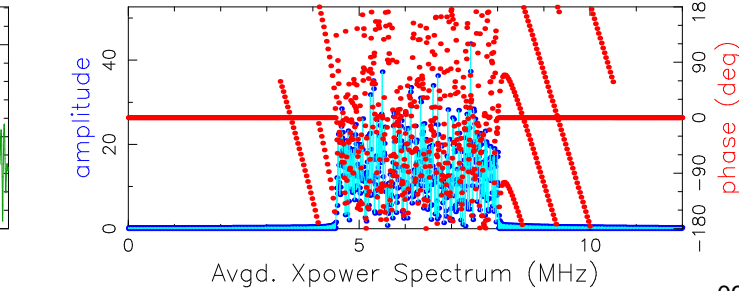
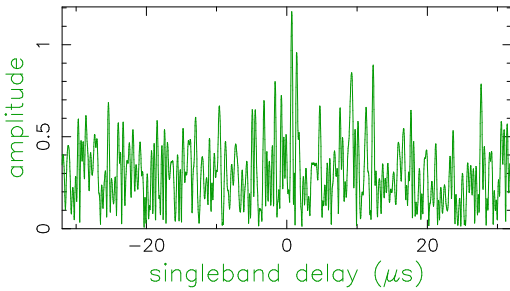
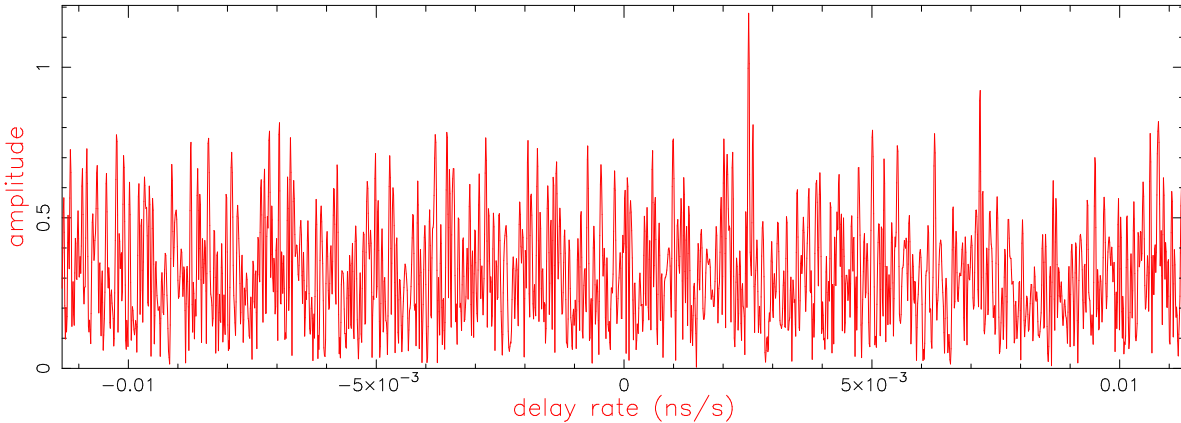
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	2.91078895102E+03	Apriori delay (usec)	2.90997721613E+03	Resid mbdelay (usec)	-6.21494E-06	+/- 5.0E-03
Sband delay (usec)	2.91078895613E+03	Apriori clock (usec)	-1.8708136E+01	Resid sbdelay (usec)	8.11740E-01	+/- 5.0E-03
Phase delay (usec)	2.90997721187E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.25555E-06	+/- 4.0E-07
Delay rate (us/s)	-8.45143363644E-01	Apriori rate (us/s)	-8.45132470867E-01	Resid rate (us/s)	-1.08928E-05	+/- 2.3E-09
Total phase (deg)	-212.7	Apriori accel (us/s/s)	-6.58783479706E-06	Resid phase (deg)	-355.7	+/- 12.4

ph/seg (deg)	RMS 92.9	Theor. 105.5	Amplitude Search (2048X8)	1.941 +/- 0.210	1.281	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	65.8	184.2	Interp.	0.000	0.889	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.	0.889	1.930	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.930		Sample rate(MSamp/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

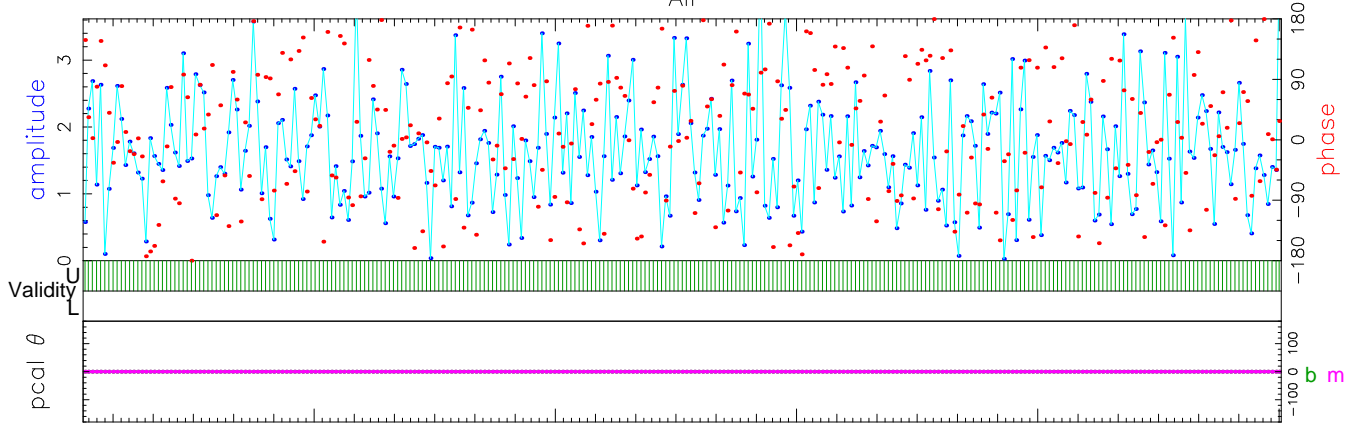
b: az 153.8 el 50.7 pa -17.9 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 4926.763 3413.588 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bm.W.35.1T5H2H

Fringe quality 8



SNR 8.5  
Int time 296.980  
Amp 1.206  
Phase -284.6  
PFD 2.7e-10  
Delays (us)  
SBD 0.699987  
MBD 0.000005  
Fringe rate (Hz)  
0.216624  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
38.7  
0.4  
1570.6  
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)	2.91067719905E+03	Apriori delay (usec)	2.90997721613E+03	Resid mbdelay (usec)	4.95780E-06	+/-	5.4E-03
Sband delay (usec)	2.91067720280E+03	Apriori clock (usec)	-1.8708136E+01	Resid sbdelay (usec)	6.99987E-01	+/-	5.4E-03
Phase delay (usec)	2.90997721738E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.24772E-06	+/-	4.3E-07
Delay rate (us/s)	-8.45129956073E-01	Apriori rate (us/s)	-8.45132470867E-01	Resid rate (us/s)	2.51479E-06	+/-	2.5E-09
Total phase (deg)	-141.6	Apriori accel (us/s/s)	-6.58783479706E-06	Resid phase (deg)	-284.6	+/-	13.4

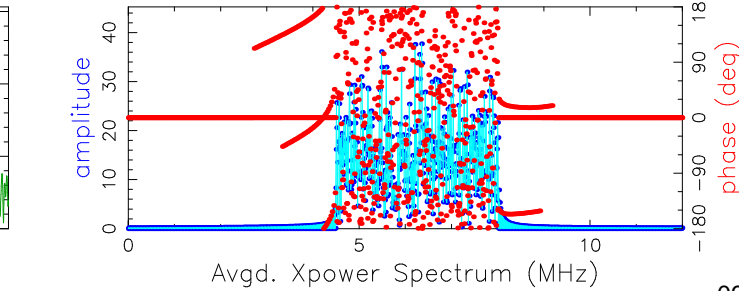
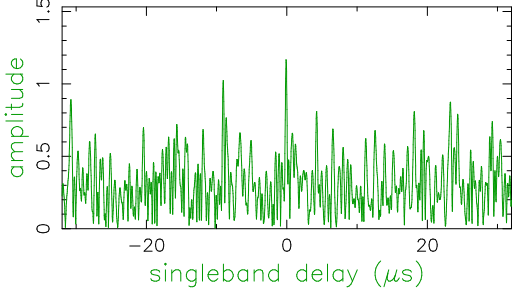
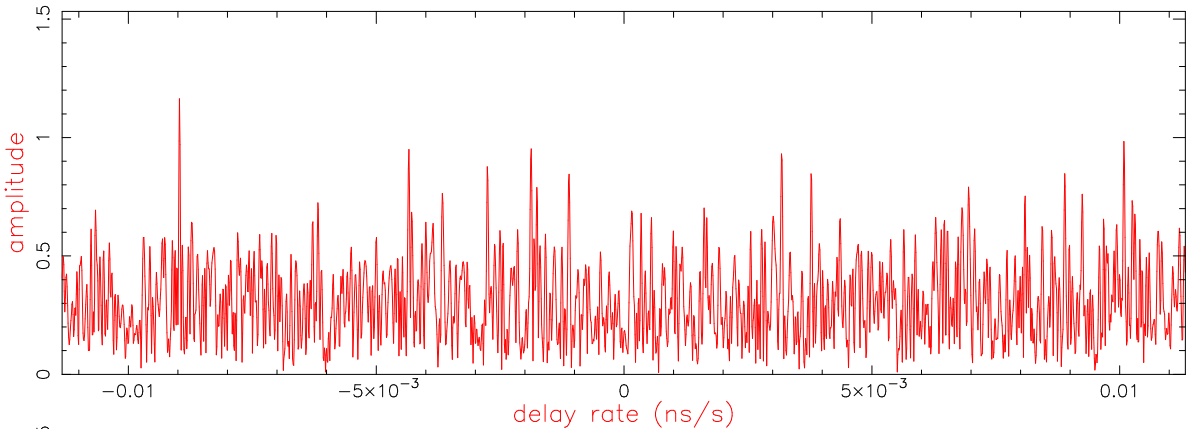
ph/seg (deg)	RMS 94.7	Theor. 114.7	Amplitude Search (2048X8)	1.206 +/- 0.141	1.173	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.4	200.1	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.559	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	11.7	Inc. frq. avg.	1.196				ion window (TEC)	0.00	0.00

b: az 153.8 el 50.7 pa -17.9 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 4926.763 3413.588 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bm.W.41.1T5H2H

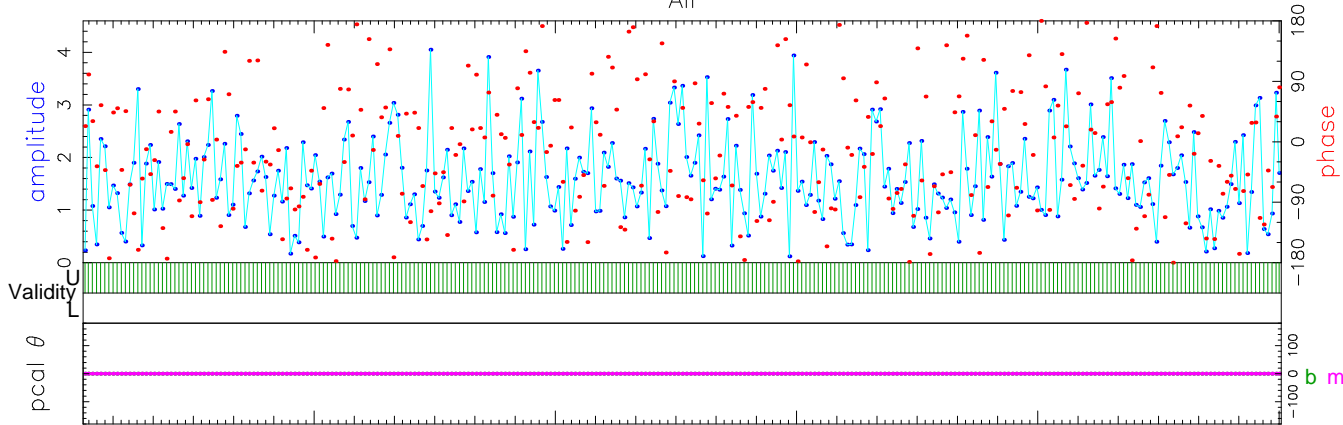
Fringe quality 8

SNR 8.4  
Int time 296.980  
Amp 1.533  
Phase 126.5  
PFD 5.7e-10  
Delays (us)  
SBD -0.096627  
MBD -0.000006  
Fringe rate (Hz)  
-0.771260  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
-19.6  
0.4  
1532.4  
U/L 581/0  
b 0  
m 0  
b:m 0:0  
b:m 0:0  
b 1000  
m 1000  
b W03UR  
m W03UL

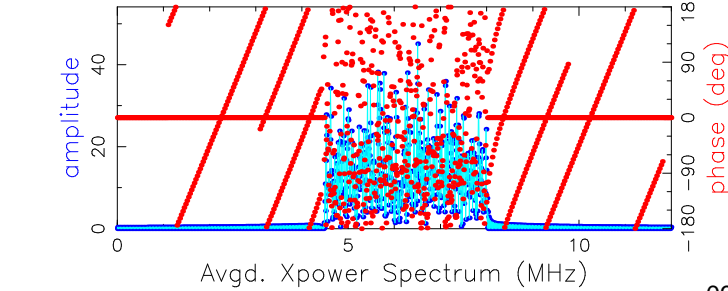
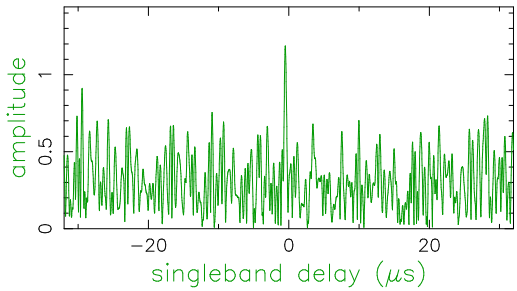
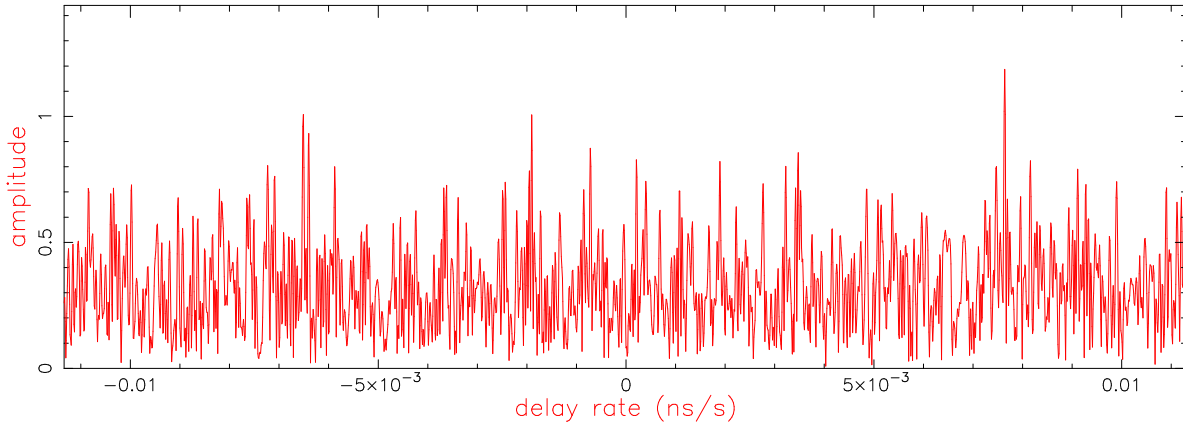
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	2.90988059337E+03	Apriori delay (usec)	2.90997721613E+03	Resid mbdelay (usec)	-5.68852E-06	+/- 5.4E-03
Sband delay (usec)	2.90988058946E+03	Apriori clock (usec)	-1.8708136E+01	Resid sbdelay (usec)	-9.66267E-02	+/- 5.4E-03
Phase delay (usec)	2.90997721550E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-6.31819E-07	+/- 4.4E-07
Delay rate (us/s)	-8.45141424432E-01	Apriori rate (us/s)	-8.45132470867E-01	Resid rate (us/s)	-8.95357E-06	+/- 2.6E-09
Total phase (deg)	269.5	Apriori accel (us/s/s)	-6.58783479706E-06	Resid phase (deg)	126.5	+/- 13.6

ph/seg (deg)	88.7	Theor.	115.9	Amplitude	1.533 +/- 0.182	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.1	Search (2048X8)	1.143	Search	1.143	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.	0.688	Inc. seg. avg.	0.688	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.516	Inc. frq. avg.	1.516	Sample rate(MSamp/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	

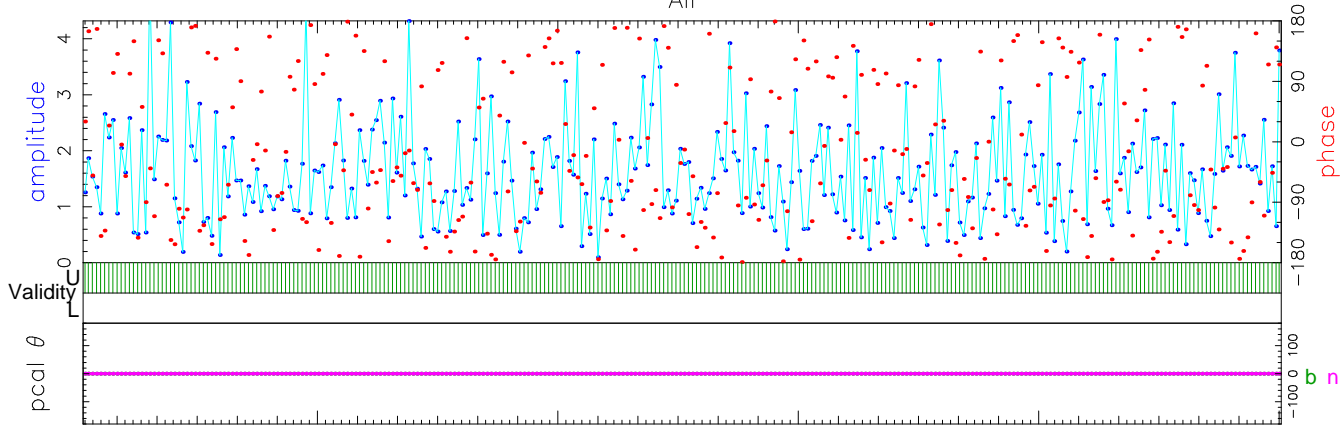
b: az 153.8 el 50.7 pa -17.9 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 4926.763 3413.588 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bm.W.61.1T5H2H

Fringe quality 8



SNR 8.6  
Int time 297.977  
Amp 1.441  
Phase 246.2  
PFD 1.7e-10  
Delays (us)  
SBD -0.505805  
MBD 0.000006  
Fringe rate (Hz)  
0.656998  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



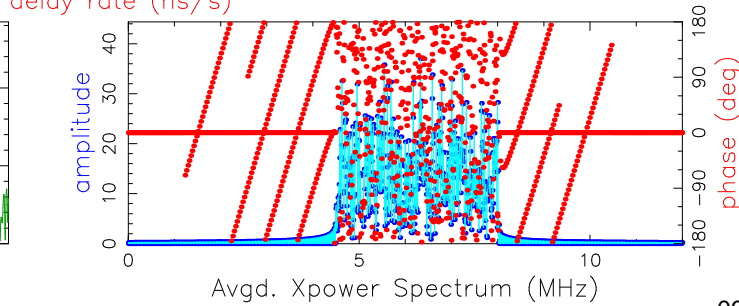
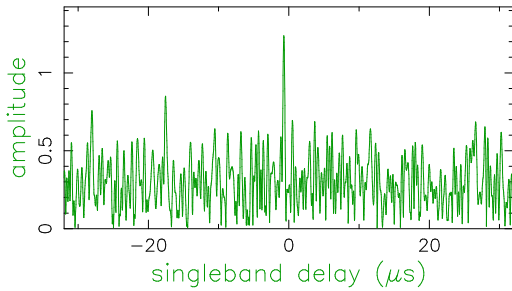
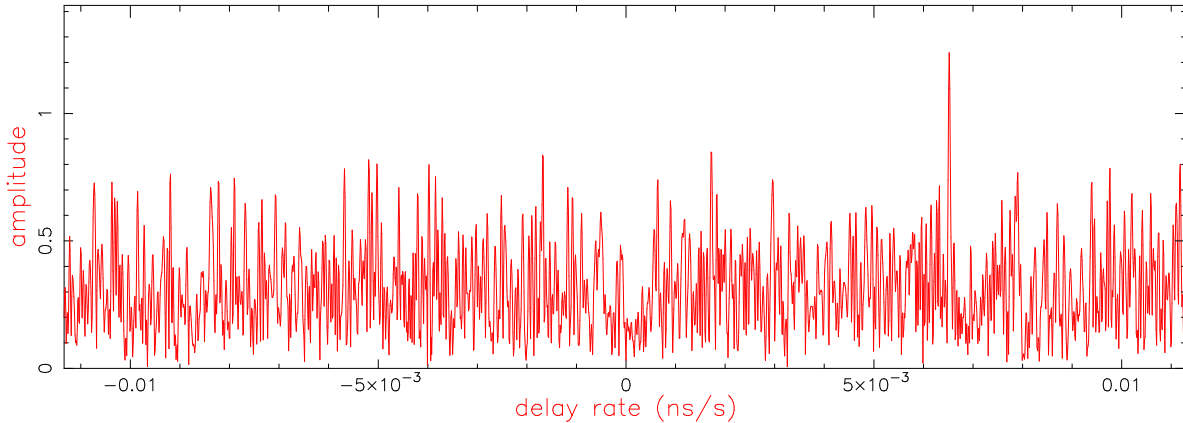
86227.00  
-116.0  
0.4  
1512.7  
U/L 583/0  
b 0  
n 0  
b:n 0:0  
b:n 0:0  
b 1000  
n 1000  
b W03UL  
n W03UL

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)	-1.49925231973E+03	Apriori delay (usec)	-1.49874650994E+03	Resid mbdelay (usec)	6.26003E-06	+/-	5.4E-03
Sband delay (usec)	-1.49925231528E+03	Apriori clock (usec)	-8.4751358E+00	Resid sbdelay (usec)	-5.05805E-01	+/-	5.4E-03
Phase delay (usec)	-1.49874651368E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.73977E-06	+/-	4.3E-07
Delay rate (us/s)	5.18890588452E-01	Apriori rate (us/s)	5.18882961358E-01	Resid rate (us/s)	7.62709E-06	+/-	2.5E-09
Total phase (deg)	114.2	Apriori accel (us/s/s)	9.66684240522E-06	Resid phase (deg)	246.2	+/-	13.4

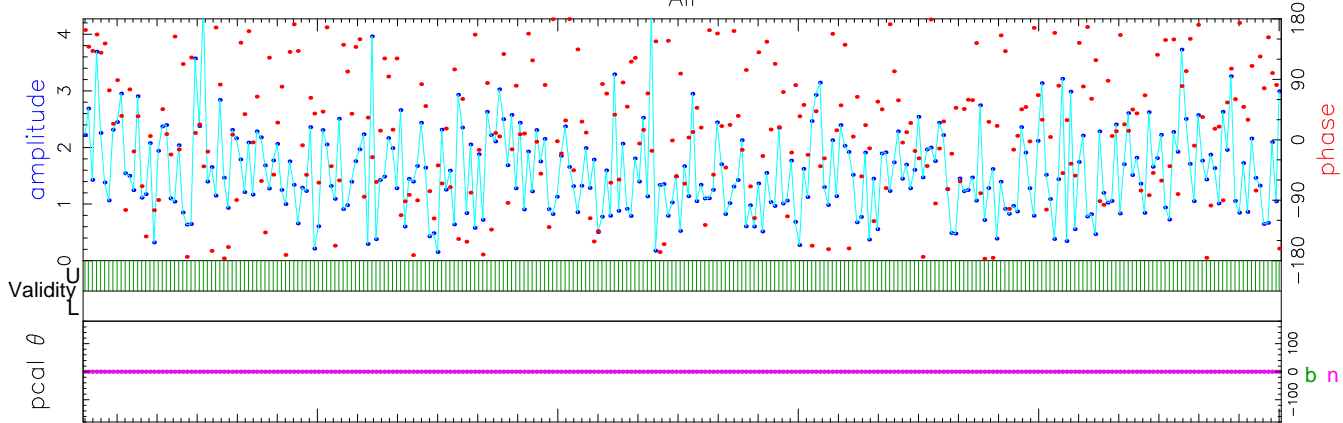
ph/seg (deg)	89.8	RMS	114.1	Theor.	1.441 +/- 0.168	Search (2048X8)	1.177	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	85.9	Interp.	0.000	Inc. seg. avg.	0.666	Inc. frq. avg.	1.430	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.666	Inc. frq. avg.	1.430	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	Inc. frq. avg.	1.430	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	nlags: 1536	t_cohere infinite	dr window (ns/s)	-0.011 0.011	
b: az 153.8 el 50.7 pa -17.9	n: az 201.7 el 57.9 pa 16.3	u,v (fr/asec)	-3023.337 838.140					ion window (TEC)	0.00 0.00	

Fringe quality 8



SNR 9.0  
Int time 297.977  
Amp 1.424  
Phase 255.0  
PFD 6.4e-12  
Delays (us)  
SBD -0.708367  
MBD 0.000004  
Fringe rate (Hz)  
0.560738  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
28.7  
0.4  
1503.0  
U/L 583/0  
b 0  
n 0  
b:n 0:0  
b:n 0:0  
b 1000  
n 1000  
b W03UR  
n W03UR

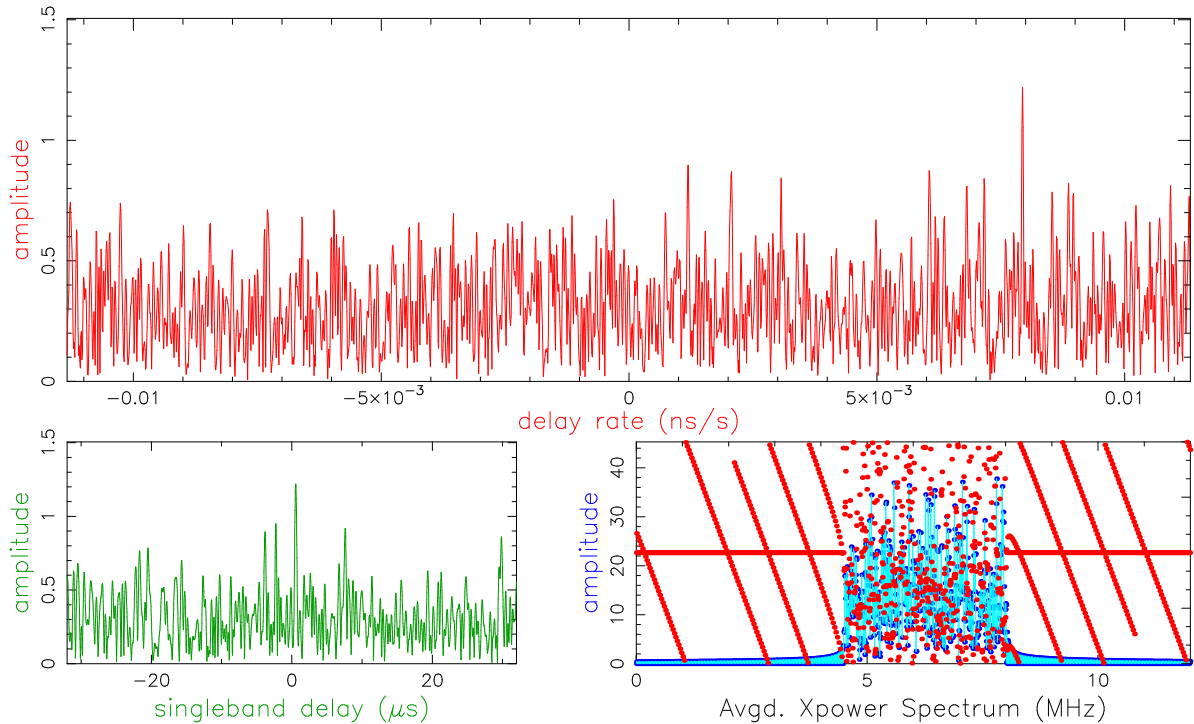
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.49945487999E+03	Apriori delay (usec)	-1.49874650994E+03	Resid mbdelay (usec)	4.35824E-06	+/-	5.1E-03
Sband delay (usec)	-1.49945487661E+03	Apriori clock (usec)	-8.4751358E+00	Resid sbdelay (usec)	-7.08367E-01	+/-	5.1E-03
Phase delay (usec)	-1.49874650902E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	9.26564E-07	+/-	4.1E-07
Delay rate (us/s)	5.18889470975E-01	Apriori rate (us/s)	5.18882961358E-01	Resid rate (us/s)	6.50962E-06	+/-	2.4E-09
Total phase (deg)	123.1	Apriori accel (us/s/s)	9.66684240522E-06	Resid phase (deg)	255.0	+/-	12.8

ph/seg (deg)	RMS 91.6	Theor. 109.4	Amplitude Search (2048X8)	1.424 +/- 0.159	1.228	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.8	190.9	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	6.4	Inc. seg. avg.	0.646	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.415	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 153.8 el 50.7 pa -17.9 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -3023.337 838.140 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bn.W.39.1T5H2H



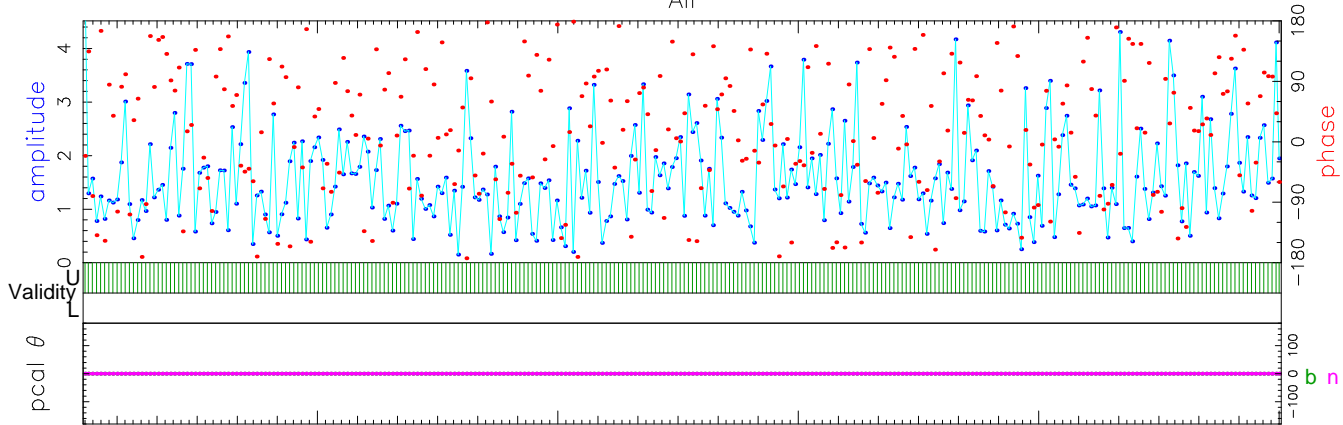


Fringe quality 8

SNR 8.8  
Int time 297.977  
Amp 1.506  
Phase -17.3  
PFD 2.0e-11  
Delays (us)  
SBD 0.553425  
MBD 0.000007  
Fringe rate (Hz)  
0.682792  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
35.9  
0.4  
1563.6  
U/L 583/0  
b 0  
n 0  
b:n 0:0  
b:n 0:0  
b 1000  
n 1000  
b W03UL  
n W03UR

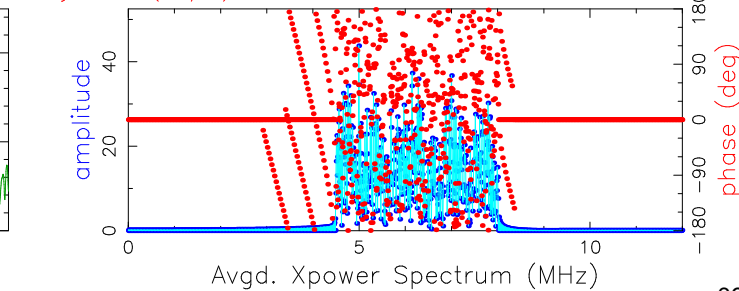
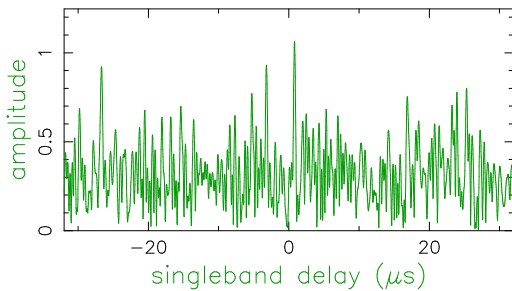
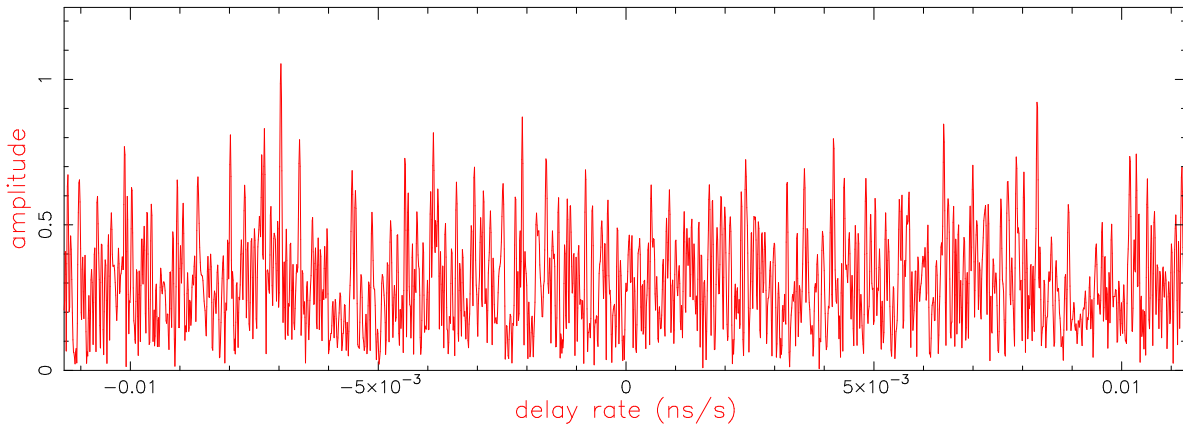
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.49819307976E+03	Apriori delay (usec)	-1.49874650994E+03	Resid mbdelay (usec)	7.24671E-06	+/-	5.2E-03
Sband delay (usec)	-1.49819308461E+03	Apriori clock (usec)	-8.4751358E+00	Resid sbdelay (usec)	5.53425E-01	+/-	5.2E-03
Phase delay (usec)	-1.49874650879E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.15849E-06	+/-	4.2E-07
Delay rate (us/s)	5.18890887897E-01	Apriori rate (us/s)	5.18882961358E-01	Resid rate (us/s)	7.92654E-06	+/-	2.4E-09
Total phase (deg)	-149.2	Apriori accel (us/s/s)	9.66684240522E-06	Resid phase (deg)	-17.3	+/-	13.0

ph/seg (deg)	RMS 92.1	Theor. 111.0	Amplitude Search (2048X8)	1.506 +/- 0.171	1.214	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.8	193.7	Interp.	0.000	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.	0.678	Sample rate(MISamp/s): 24	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.494	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

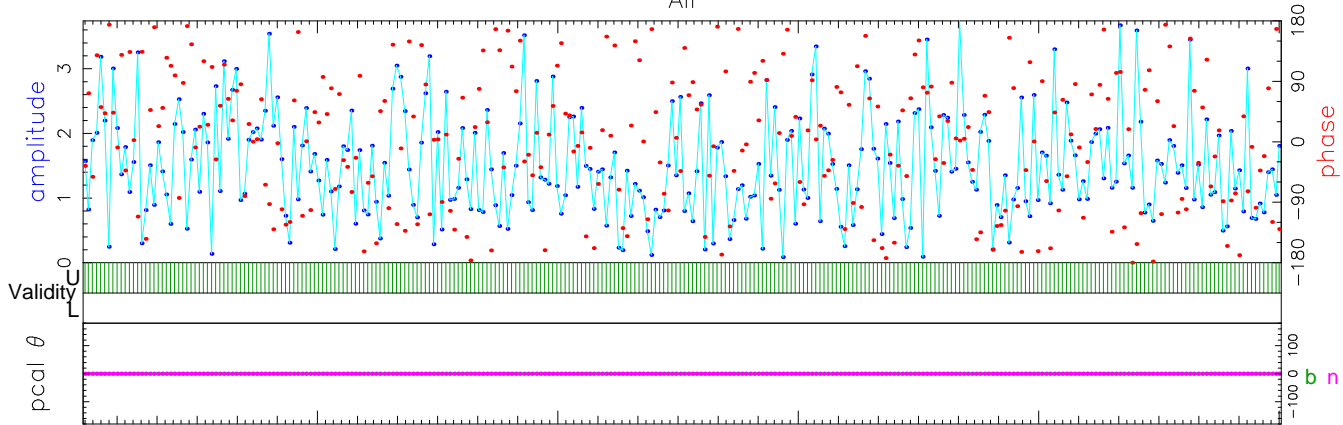
b: az 153.8 el 50.7 pa -17.9 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -3023.337 838.140 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bn.W.57.1T5H2H

Fringe quality 8



SNR 7.7  
Int time 297.977  
Amp 1.247  
Phase -224.7  
PFD 2.5e-07  
Delays (us)  
SBD 0.812500  
MBD -0.000007  
Fringe rate (Hz)  
-0.599532  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
23.0  
0.4  
1575.9  
U/L 583/0  
b 0  
n 0  
b:n 0:0  
b:n 0:0  
b 1000  
n 1000  
b W03UR  
n W03UL

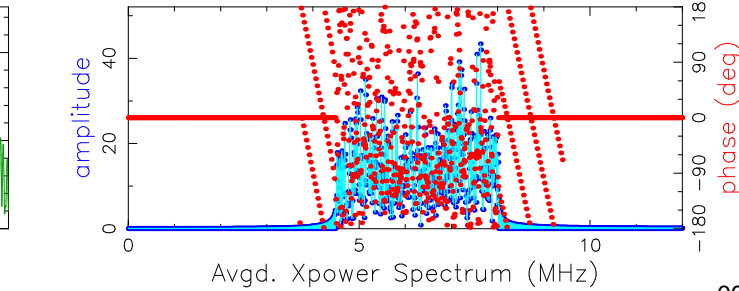
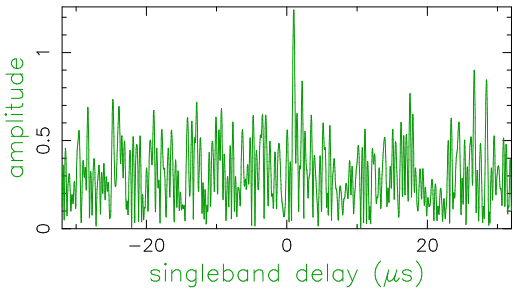
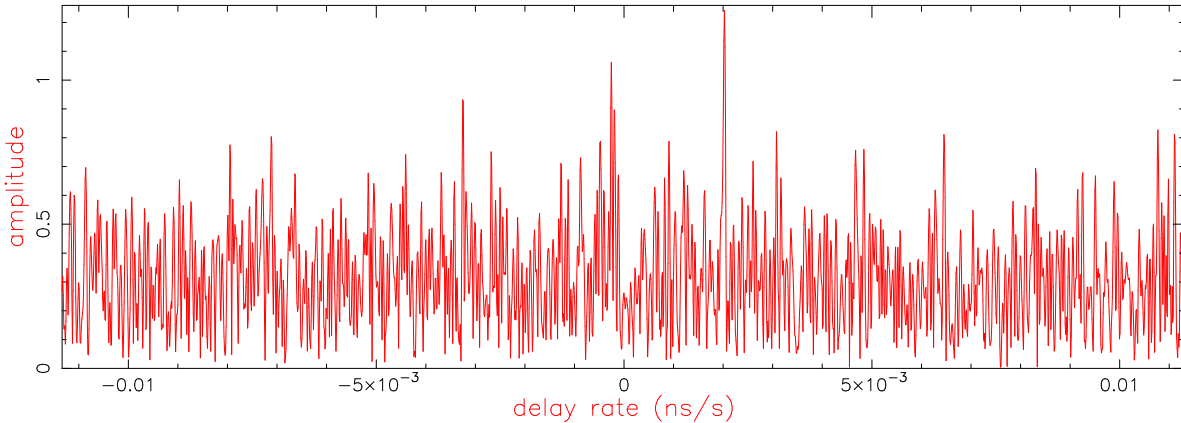
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.49793401067E+03	Apriori delay (usec)	-1.49874650994E+03	Resid mbdelay (usec)	-7.24722E-06	+/- 6.0E-03
Sband delay (usec)	-1.49793400994E+03	Apriori clock (usec)	-8.4751358E+00	Resid sbdelay (usec)	8.12500E-01	+/- 6.0E-03
Phase delay (usec)	-1.49874650920E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	7.40735E-07	+/- 4.8E-07
Delay rate (us/s)	5.18876001389E-01	Apriori rate (us/s)	5.18882961358E-01	Resid rate (us/s)	-6.95997E-06	+/- 2.8E-09
Total phase (deg)	-356.7	Apriori accel (us/s/s)	9.66684240522E-06	Resid phase (deg)	-224.7	+/- 14.9

ph/seg (deg)	RMS 96.3	Theor. 127.5	Amplitude Search (2048X8)	1.247 +/- 0.162	1.049	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.4	222.5	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	7.5	Inc. seg. avg.	0.509	0.509	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	71.0	13.0	Inc. frq. avg.	1.226	1.226	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

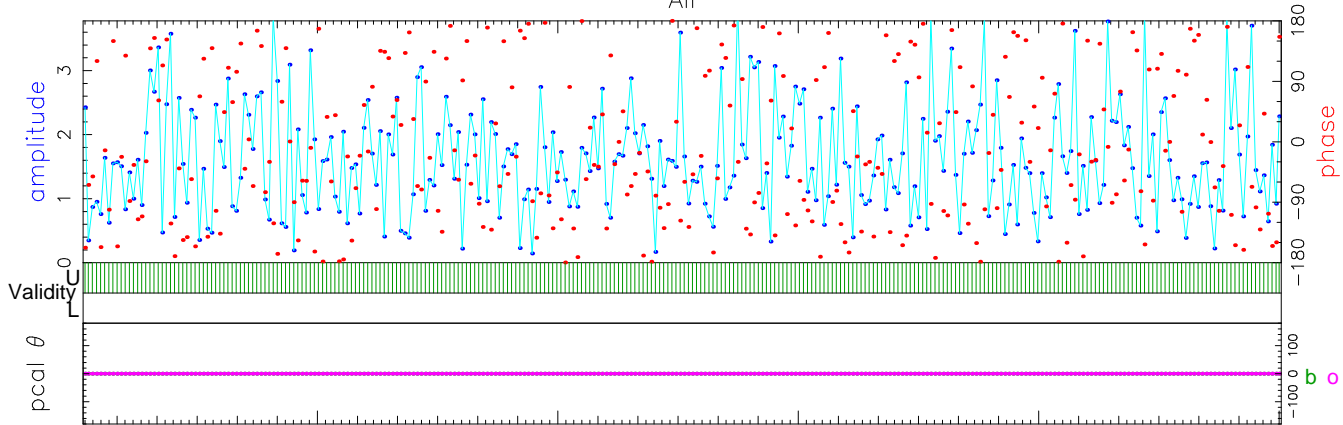
b: az 153.8 el 50.7 pa -17.9 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -3023.337 838.140 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bn.W.69.1T5H2H

Fringe quality 8



SNR 9.0  
Int time 297.953  
Amp 1.259  
Phase -44.1  
PFD 4.9e-12  
Delays (us)  
SBD 0.986351  
MBD 0.000005  
Fringe rate (Hz)  
0.174769  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



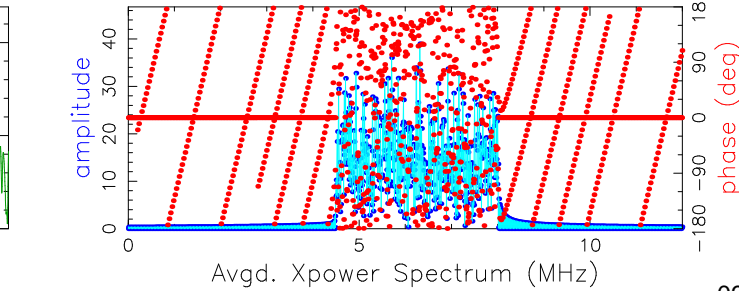
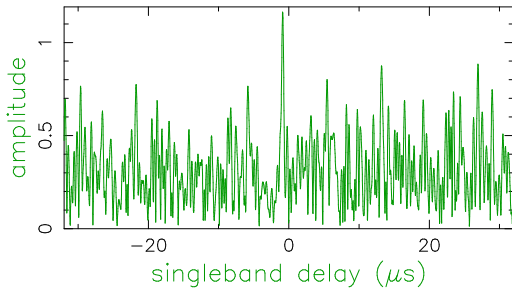
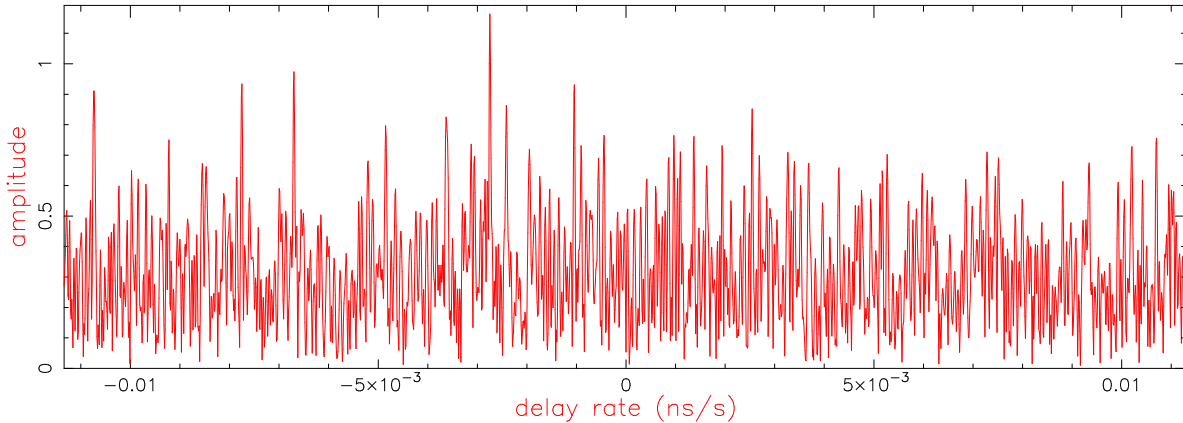
86227.00  
-111.6  
0.4  
1584.3  
U/L 583/0  
b 0  
o 0  
b:o 0:0  
b:o 0:0  
b 1000  
o 1000  
b W03UL  
o W03UL

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)	-2.11107534195E+03	Apriori delay (usec)	-2.11206169648E+03	Resid mbdelay (usec)	4.55171E-06	+/-	5.1E-03
Sband delay (usec)	-2.11107534582E+03	Apriori clock (usec)	-6.7461357E+00	Resid sbdelay (usec)	9.86351E-01	+/-	5.1E-03
Phase delay (usec)	-2.11206170008E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.59816E-06	+/-	4.1E-07
Delay rate (us/s)	-2.49951590796E-02	Apriori rate (us/s)	-2.49971879749E-02	Resid rate (us/s)	2.02890E-06	+/-	2.4E-09
Total phase (deg)	-236.7	Apriori accel (us/s/s)	1.42900836645E-05	Resid phase (deg)	-44.1	+/-	12.8

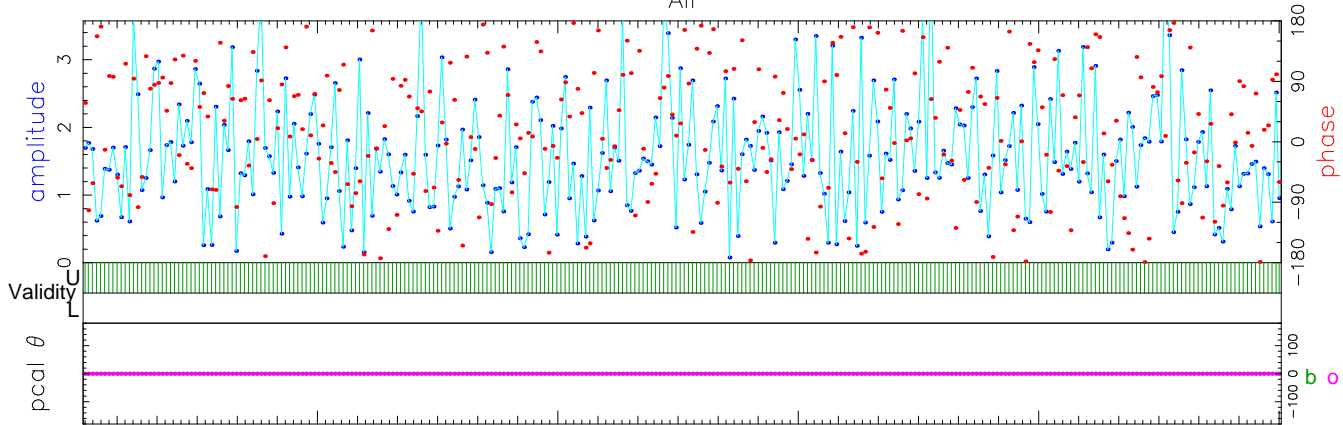
ph/seg (deg)	RMS 93.5	Theor. 109.0	Amplitude Search (2048X8)	1.259 +/- 0.140	1.227	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.7	190.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.585	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.251	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
				b: az 153.8 el 50.7 pa -17.9	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00
				o: az 148.4 el 60.7 pa -24.7	simultaneous interpolator		

Fringe quality 8



SNR 8.4  
Int time 297.953  
Amp 1.192  
Phase 78.0  
PFD 7.2e-10  
Delays (us)  
SBD -0.874496  
MBD -0.000007  
Fringe rate (Hz)  
-0.235868  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
48.8  
0.3  
1495.0  
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)	-2.11293619724E+03	Apriori delay (usec)	-2.11206169648E+03	Resid mbdelay (usec)	-6.68617E-06	+/-	5.5E-03
Sband delay (usec)	-2.11293619248E+03	Apriori clock (usec)	-6.7461357E+00	Resid sbdelay (usec)	-8.74496E-01	+/-	5.5E-03
Phase delay (usec)	-2.11206169491E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.57413E-06	+/-	4.4E-07
Delay rate (us/s)	-2.49999261682E-02	Apriori rate (us/s)	-2.49971879749E-02	Resid rate (us/s)	-2.73819E-06	+/-	2.6E-09
Total phase (deg)	245.3	Apriori accel (us/s/s)	1.42900836645E-05	Resid phase (deg)	78.0	+/-	13.6

ph/seg (deg) 91.2 116.5  
amp/seg (%) 82.5 203.3  
ph/frq (deg) 0.0 6.8  
amp/frq (%) 70.7 11.9

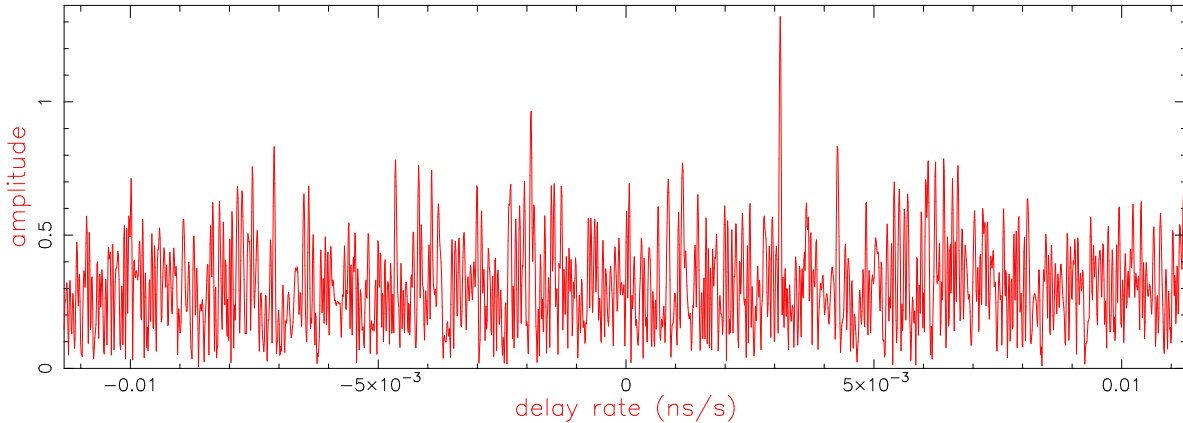
RMS Theor. Amplitude 1.192 +/- 0.142  
Search (2048X8) 1.146  
Interp. 0.000  
Inc. seg. avg. 0.535  
Inc. frq. avg. 1.183

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
Pcal rate: 0.000E+00, 0.000E+00 (us/s)  
Bits/sample: 2x2 SampCntNorm: enabled  
Sample rate(MISamp/s): 24  
Data rate(Mb/s): 48 nlags: 1536 t\_cohere infinite

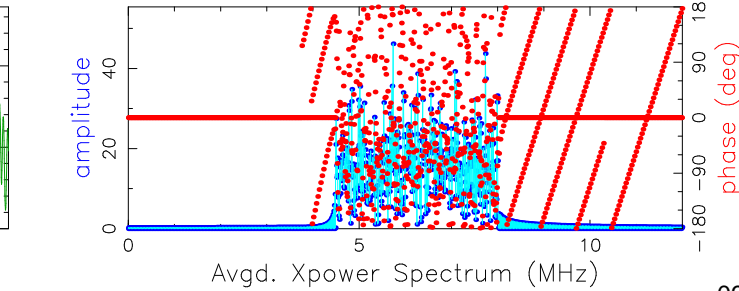
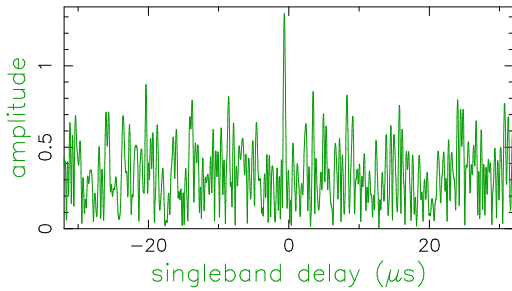
sb window (us) -1.000 1.000  
mb window (us) -0.000 0.000  
dr window (ns/s) -0.011 0.011  
ion window (TEC) 0.00 0.00

b: az 153.8 el 50.7 pa -17.9 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 156.818 1438.070 simultaneous interpolator

Fringe quality 8

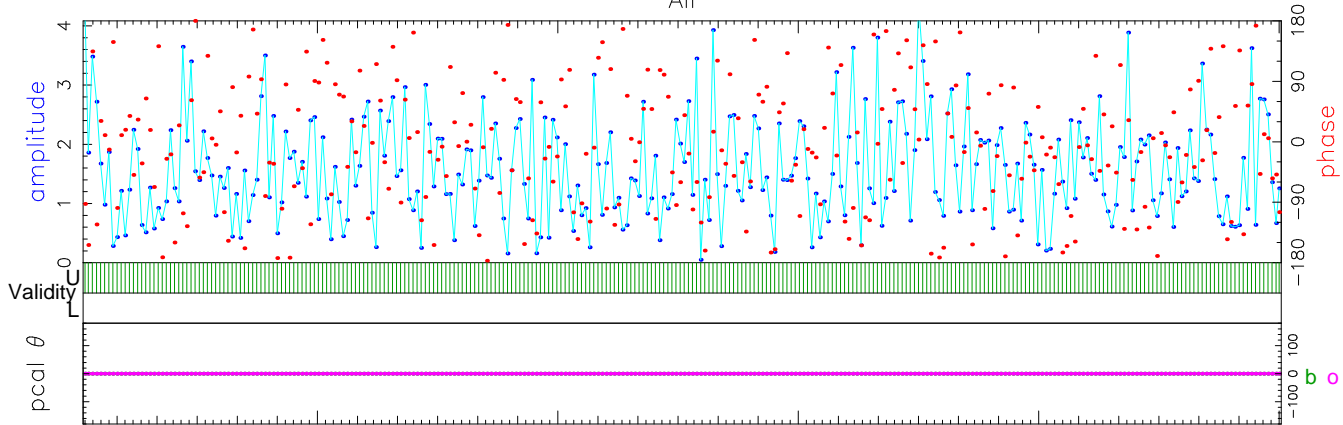


SNR 9.5  
Int time 297.953  
Amp 1.362  
Phase 358.0  
PFD 2.7e-14  
Delays (us)  
SBD -0.643813  
MBD 0.000007  
Fringe rate (Hz)  
0.268087  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-6.6  
0.4  
1506.1  
U/L 583/0  
b 0  
o 0  
b:o 0:0  
b:o 0:0  
b 1000  
o 1000  
b W03UL  
o W03UR

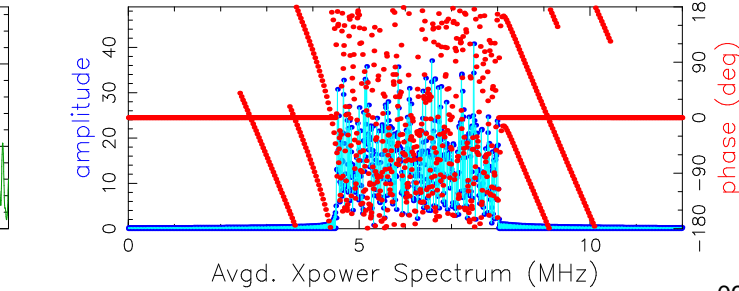
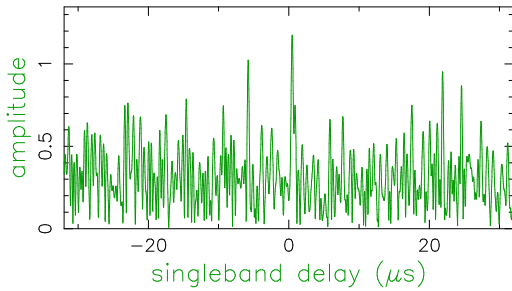
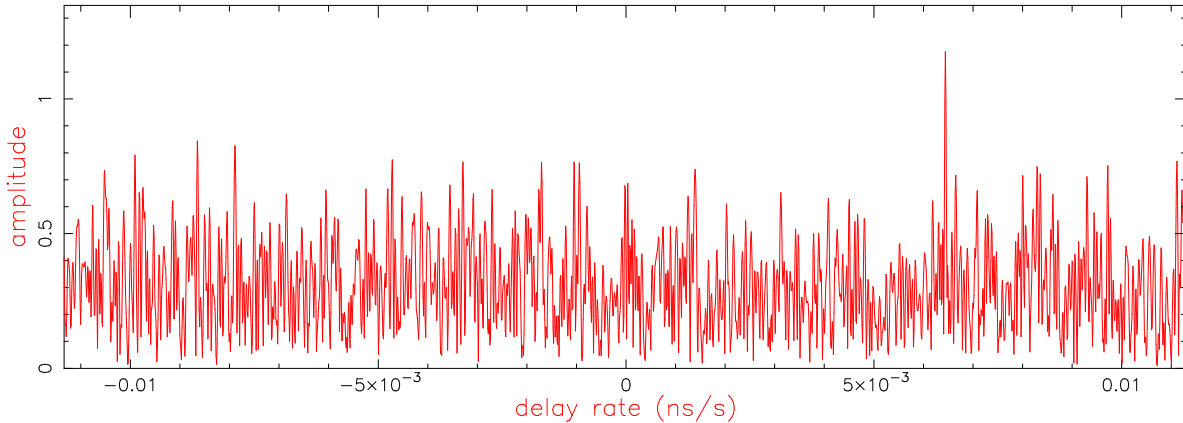
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-2.11270551351E+03	Apriori delay (usec)	-2.11206169648E+03	Resid mbdelay (usec)	6.83517E-06	+/-	4.8E-03
Sband delay (usec)	-2.11270550982E+03	Apriori clock (usec)	-6.7461357E+00	Resid sbdelay (usec)	-6.43813E-01	+/-	4.8E-03
Phase delay (usec)	-2.11206169670E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.11565E-07	+/-	3.9E-07
Delay rate (us/s)	-2.49940757546E-02	Apriori rate (us/s)	-2.49971879749E-02	Resid rate (us/s)	3.11222E-06	+/-	2.2E-09
Total phase (deg)	165.3	Apriori accel (us/s/s)	1.42900836645E-05	Resid phase (deg)	358.0	+/-	12.0

ph/seg (deg)	RMS 91.3	Theor. 102.6	Amplitude 1.362 +/- 0.143	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.8	179.1	Search (2048X8) 1.312	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.5	Inc. seg. avg. 0.624	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.354	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

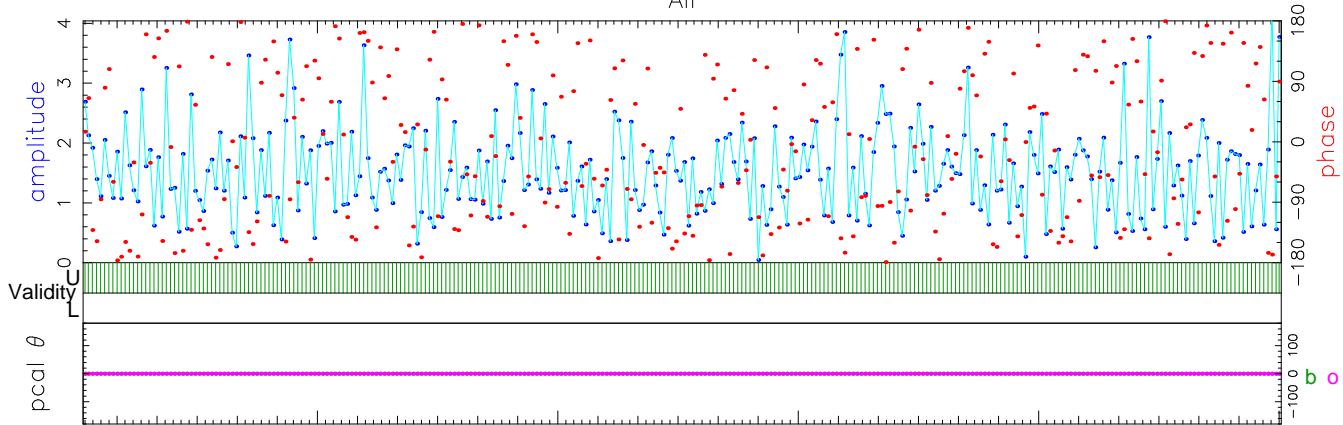
b: az 153.8 el 50.7 pa -17.9 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 156.818 1438.070 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bo.W.51.1T5H2H

Fringe quality 8



SNR 8.5  
Int time 297.953  
Amp 1.347  
Phase -323.6  
PFD 3.4e-10  
Delays (us)  
SBD 0.476456  
MBD 0.000007  
Fringe rate (Hz)  
0.554514  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-161.1  
0.4  
1559.9  
U/L 583/0  
b 0  
o 0  
b:o 0:0  
b:o 0:0  
b 1000  
o 1000  
b W03UR  
o W03UL

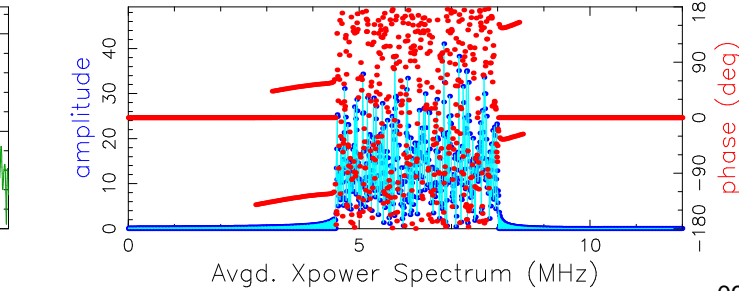
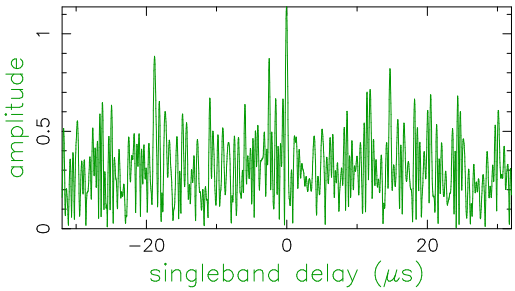
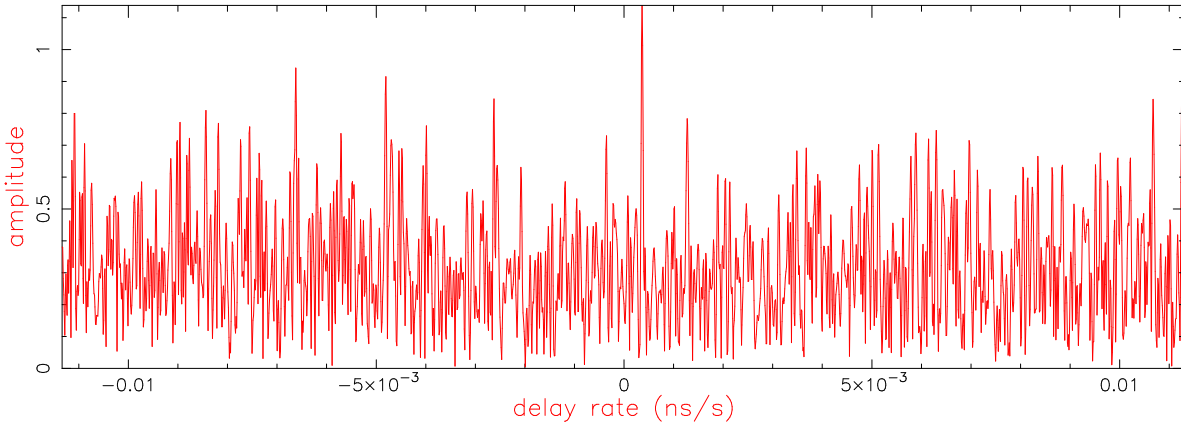
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-2.11158523806E+03	Apriori delay (usec)	-2.11206169648E+03	Resid mbdelay (usec)	6.73432E-06	+/-	5.4E-03
Sband delay (usec)	-2.11158524048E+03	Apriori clock (usec)	-6.7461357E+00	Resid sbdelay (usec)	4.76456E-01	+/-	5.4E-03
Phase delay (usec)	-2.11206170168E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.19643E-06	+/-	4.3E-07
Delay rate (us/s)	-2.49907506127E-02	Apriori rate (us/s)	-2.49971879749E-02	Resid rate (us/s)	6.43736E-06	+/-	2.5E-09
Total phase (deg)	-156.3	Apriori accel (us/s/s)	1.42900836645E-05	Resid phase (deg)	-323.6	+/-	13.5

ph/seg (deg)	RMS 93.6	Theor. 115.2	Amplitude Search (2048X8)	1.347 +/- 0.159	1.126	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.2	201.1	Interp.	0.000	1.126	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.	0.581	1.126	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.338	1.126	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

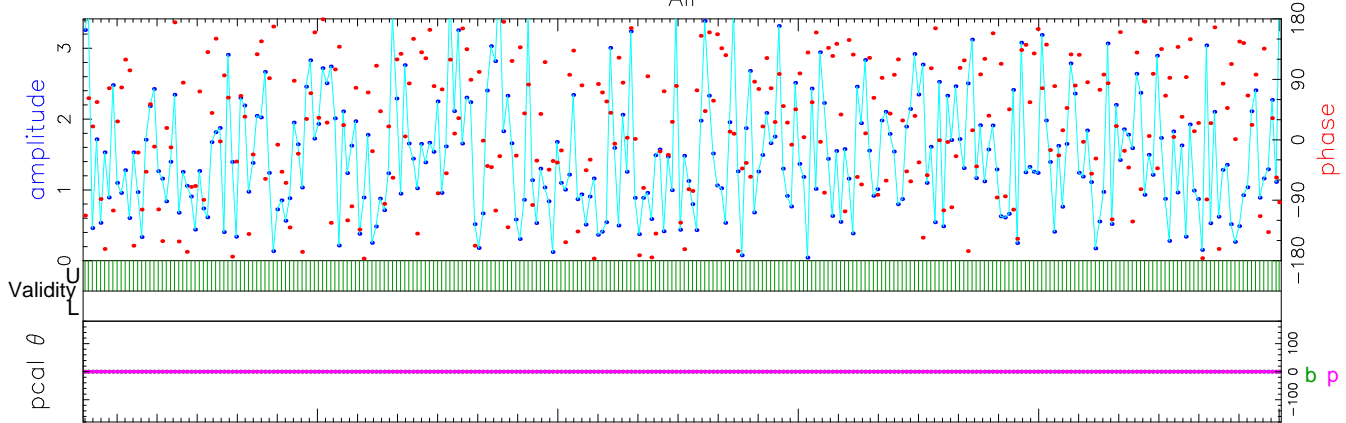
b: az 153.8 el 50.7 pa -17.9 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 156.818 1438.070 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bo.W.68.1T5H2H

Fringe quality 8



SNR 8.2  
Int time 297.974  
Amp 1.139  
Phase 24.2  
PFD 3.2e-09  
Delays (us)  
SBD -0.044977  
MBD 0.000005  
Fringe rate (Hz)  
0.031286  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
55.2  
0.3  
1534.8  
U/L 583/0  
b 0  
p 0  
b:p 0:0  
b:p 0:0  
b 1000  
p 1000  
b W03UL  
p W03UL

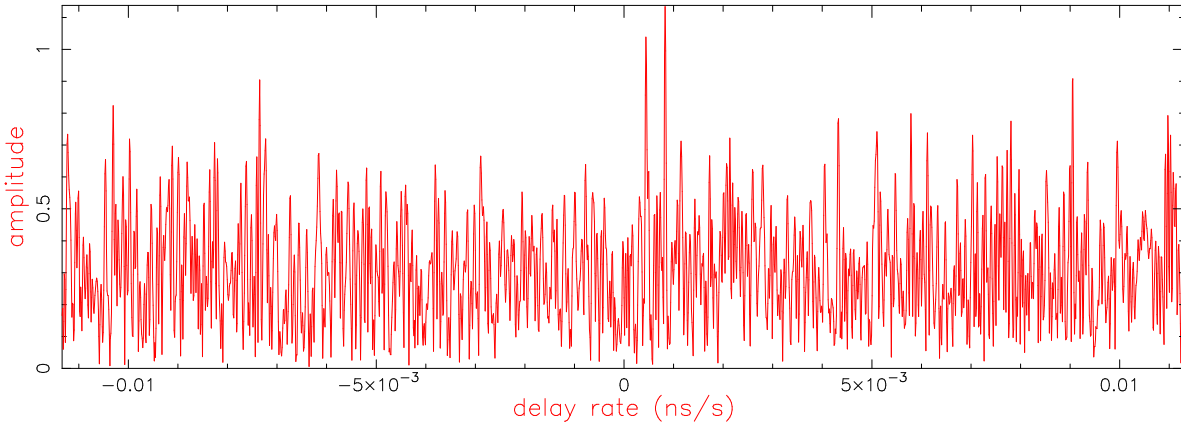
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-3.04788517308E+03	Apriori delay (usec)	-3.04784019242E+03	Resid mbdelay (usec)	5.24458E-06	+/-	5.6E-03
Sband delay (usec)	-3.04788516975E+03	Apriori clock (usec)	-8.5221367E+00	Resid sbdelay (usec)	-4.49773E-02	+/-	5.6E-03
Phase delay (usec)	-3.04784019064E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.78012E-06	+/-	4.5E-07
Delay rate (us/s)	1.83362286394E-01	Apriori rate (us/s)	1.83361923201E-01	Resid rate (us/s)	3.63194E-07	+/-	2.6E-09
Total phase (deg)	321.3	Apriori accel (us/s/s)	2.01738433169E-05	Resid phase (deg)	24.2	+/-	13.9

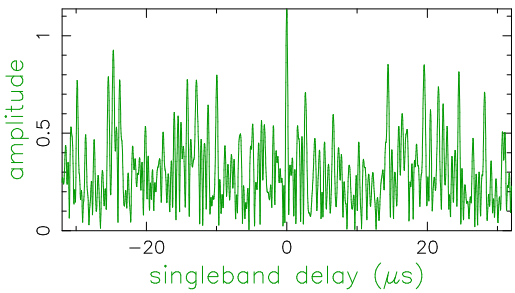
ph/seg (deg)	90.8	Theor.	119.0	Amplitude	1.139 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.9	Search (2048X8)	1.129	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.475	Inc. frq. avg.	1.130	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.130	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

b: az 153.8 el 50.7 pa -17.9 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1055.601 1891.442 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bp.W.11.1T5H2H

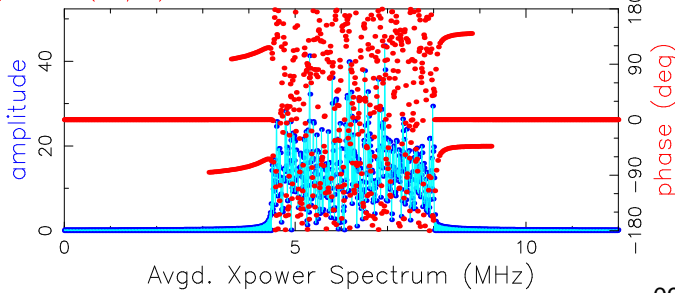
Fringe quality 8



SNR 8.2  
Int time 297.974  
Amp 1.138  
Phase 154.5  
PFD 3.8e-09  
Delays (us)  
SBD -0.013312  
MBD 0.000005  
Fringe rate (Hz)  
0.071411  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

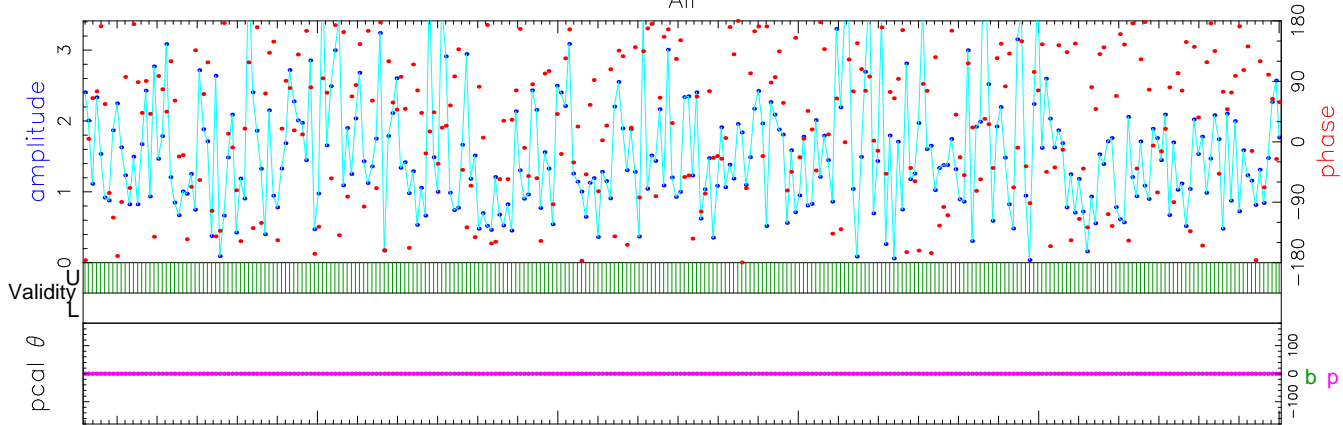


delay rate (ns/s)



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
97.5  
0.3  
1536.4  
U/L 583/0  
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

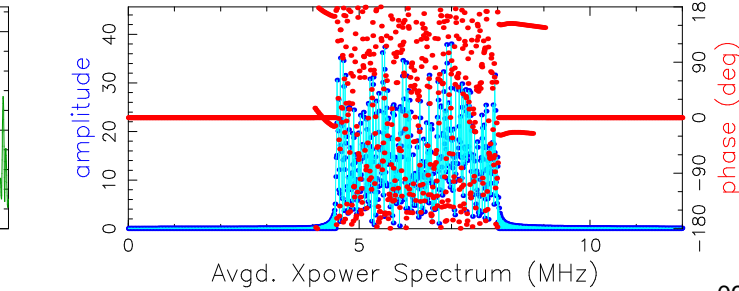
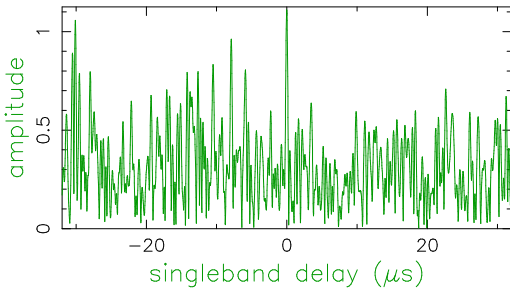
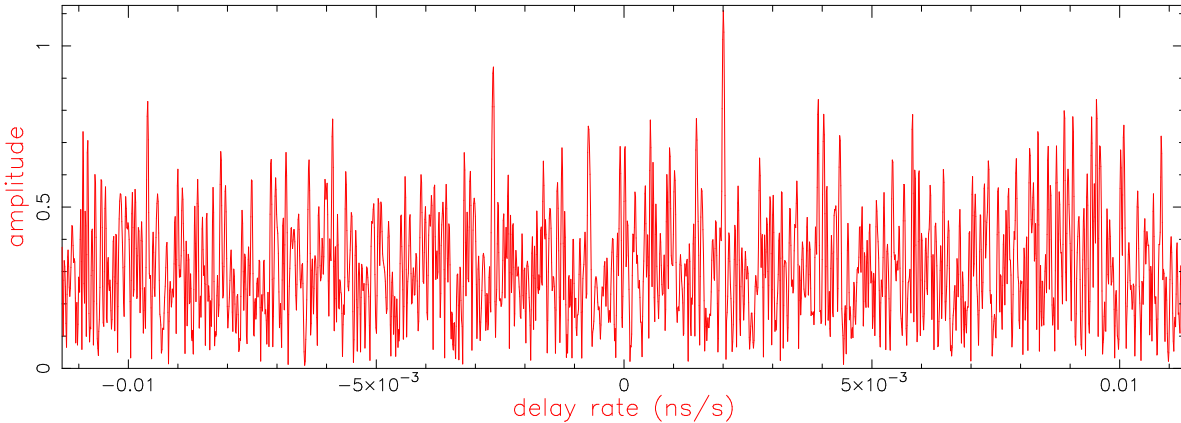
Group delay (usec)(sbd)	-3.04785350072E+03	Apriori delay (usec)	-3.04784019242E+03	Resid mbdelay (usec)	5.39256E-06	+/-	5.6E-03
Sband delay (usec)	-3.04785350442E+03	Apriori clock (usec)	-8.5221367E+00	Resid sbdelay (usec)	-1.33120E-02	+/-	5.6E-03
Phase delay (usec)	-3.04784018927E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	3.14561E-06	+/-	4.5E-07
Delay rate (us/s)	1.83362752209E-01	Apriori rate (us/s)	1.83361923201E-01	Resid rate (us/s)	8.29009E-07	+/-	2.6E-09
Total phase (deg)	91.7	Apriori accel (us/s/s)	2.01738433169E-05	Resid phase (deg)	154.5	+/-	14.0

ph/seg (deg)	RMS 94.4	Theor. 119.3	Amplitude Search (2048X8)	1.138 +/- 0.139	1.125	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.9	208.2	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	7.0	Inc. seg. avg.	0.492	1.125	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.128	1.128	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 153.8 el 50.7 pa -17.9 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1055.601 1891.442 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bp.W.26.1T5H2H

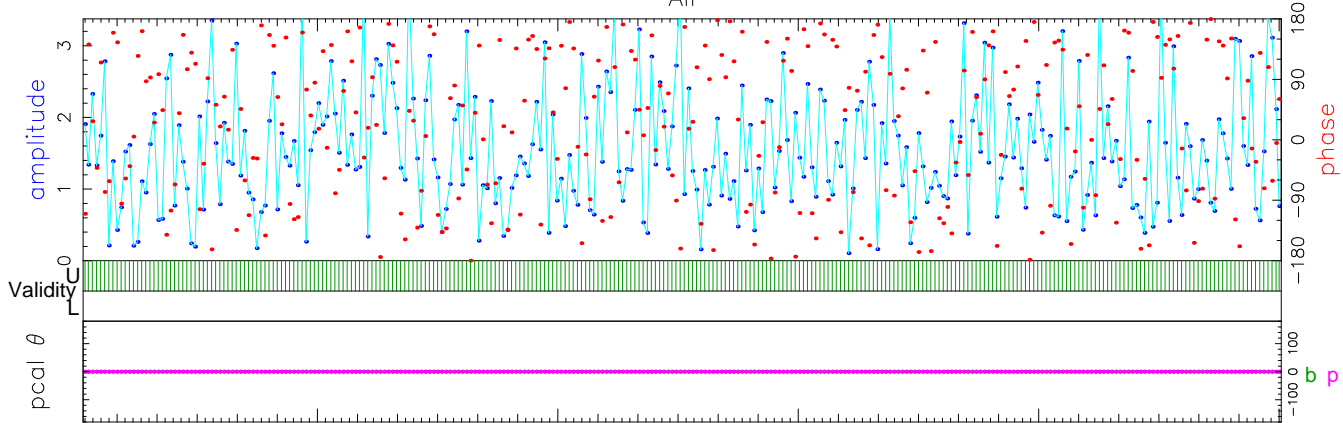


Fringe quality 8



SNR 8.0  
Int time 297.974  
Amp 1.125  
Phase 114.7  
PFD 1.6e-08  
Delays (us)  
SBD -0.010836  
MBD 0.000004  
Fringe rate (Hz)  
0.172252  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
135.1  
0.3  
1536.5  
U/L 583/0  
b 0  
p 0  
b:p 0:0  
b:p 0:0  
b 1000  
p 1000  
b W03UL  
p W03UR

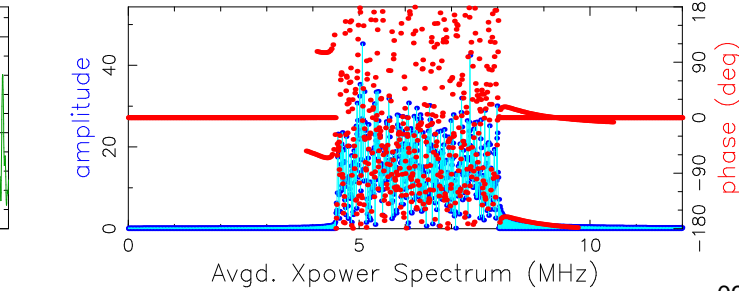
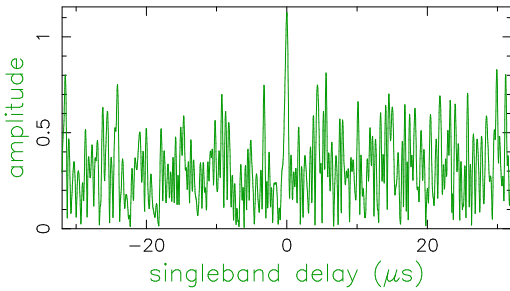
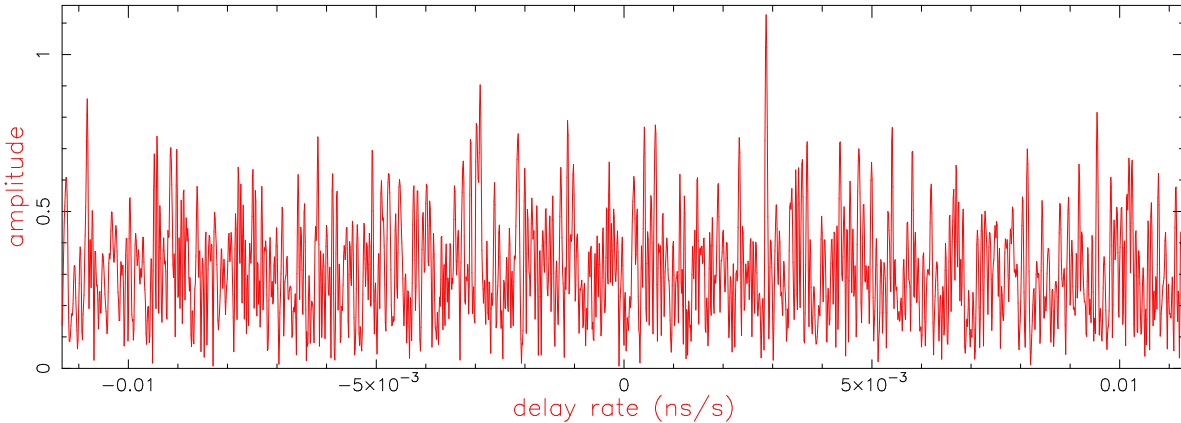
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-3.04785103149E+03	Apriori delay (usec)	-3.04784019242E+03	Resid mbdelay (usec)	4.39482E-06	+/- 5.7E-03
Sband delay (usec)	-3.04785102842E+03	Apriori clock (usec)	-8.5221367E+00	Resid sbdelay (usec)	-1.08360E-02	+/- 5.7E-03
Phase delay (usec)	-3.04784018806E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.35549E-06	+/- 4.6E-07
Delay rate (us/s)	1.83363922873E-01	Apriori rate (us/s)	1.83361923201E-01	Resid rate (us/s)	1.99967E-06	+/- 2.7E-09
Total phase (deg)	51.8	Apriori accel (us/s/s)	2.01738433169E-05	Resid phase (deg)	114.7	+/- 14.3

ph/seg (deg)	RMS 93.7	Theor. 121.9	Amplitude Search (2048X8)	1.125 +/- 0.140	1.094	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.0	212.8	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	7.1	Inc. seg. avg.	0.483	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.5	Inc. frq. avg.	1.115	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

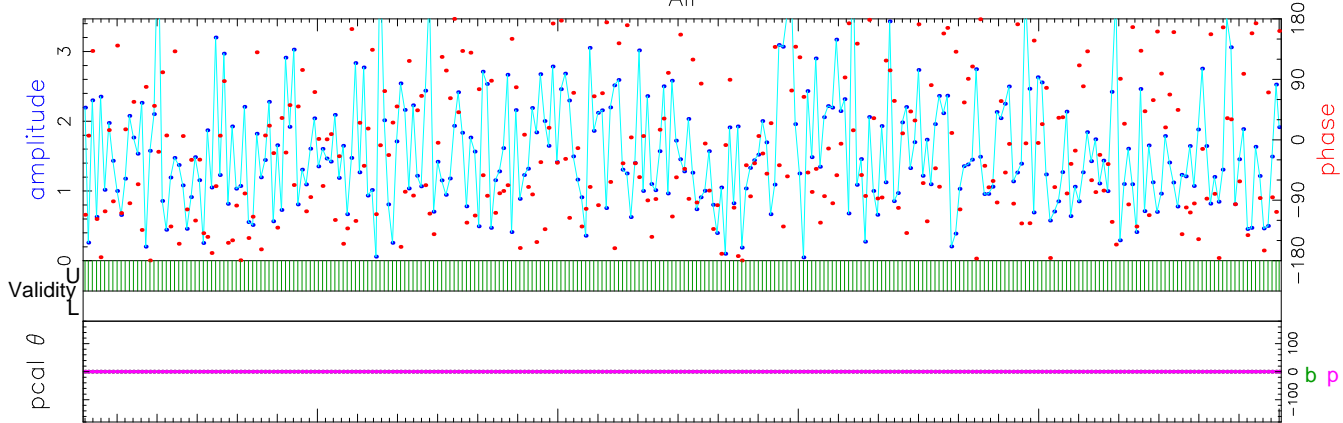
b: az 153.8 el 50.7 pa -17.9 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1055.601 1891.442 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bp.W.33.1T5H2H

Fringe quality 8



SNR 8.1  
Int time 297.974  
Amp 1.156  
Phase -65.5  
PFD 6.6e-09  
Delays (us)  
SBD -0.000011  
MBD 0.000007  
Fringe rate (Hz) 0.247219  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-66.3  
0.3  
1537.0  
U/L 583/0  
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

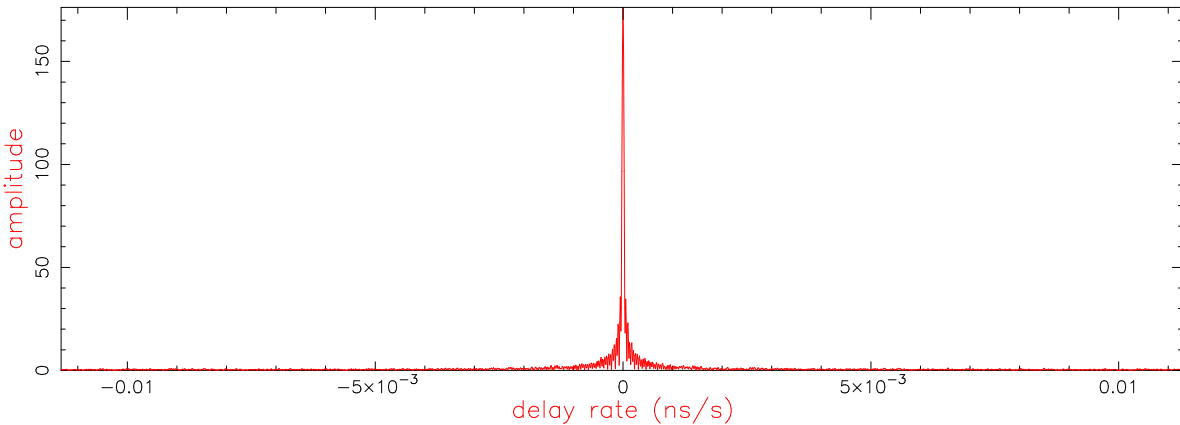
Group delay (usec)(sbd)	-3.04784020843E+03	Apriori delay (usec)	-3.04784019242E+03	Resid mbdelay (usec)	7.18429E-06	+/-	5.6E-03
Sband delay (usec)	-3.04784020308E+03	Apriori clock (usec)	-8.5221367E+00	Resid sbdelay (usec)	-1.06667E-05	+/-	5.6E-03
Phase delay (usec)	-3.04784019455E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.13685E-06	+/-	4.5E-07
Delay rate (us/s)	1.83364793173E-01	Apriori rate (us/s)	1.83361923201E-01	Resid rate (us/s)	2.86997E-06	+/-	2.6E-09
Total phase (deg)	-128.4	Apriori accel (us/s/s)	2.01738433169E-05	Resid phase (deg)	-65.5	+/-	14.1

ph/seg (deg)	RMS 93.2	Theor. 120.3	Amplitude Search (2048X8)	1.156 +/- 0.142	1.119	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.3	210.0	Interp.	0.000	1.119	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.	0.505	1.119	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.148	1.119	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

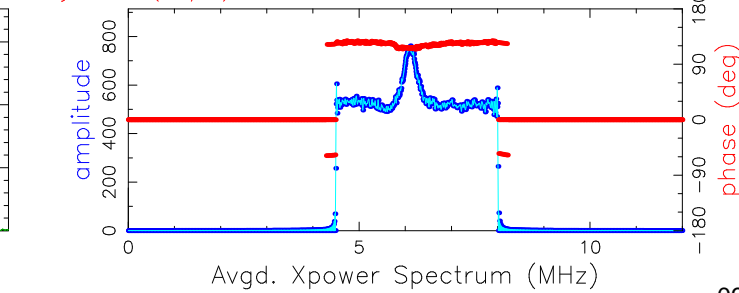
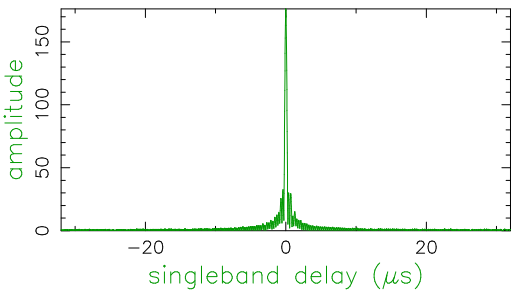
b: az 153.8 el 50.7 pa -17.9 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1055.601 1891.442 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/bp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/bp.W.49.1T5H2H



Fringe quality 5

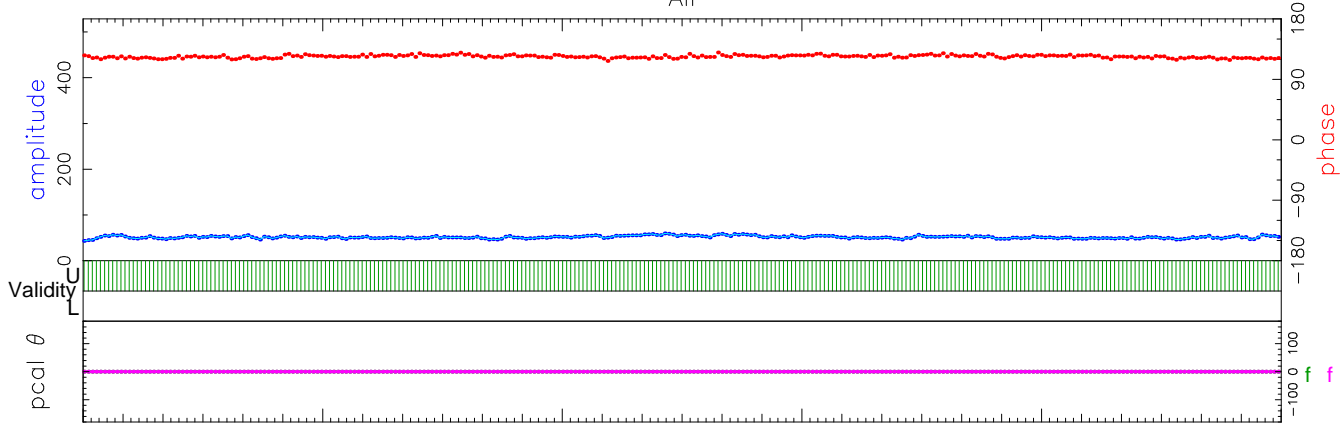


SNR 1278.0  
Int time 299.973  
Amp 176.258  
Phase 110.5  
PFD 0.0e+00  
Delays (us)  
SBD 0.000425  
MBD -0.000007  
Fringe rate (Hz)  
0.000008  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
123.9  
51.6  
1537.0  
U/L 586/0  
f 0  
f 0  
f:f 0:0  
f:f 0:0  
f 1000  
f 1000  
f W03UL  
f W03UR

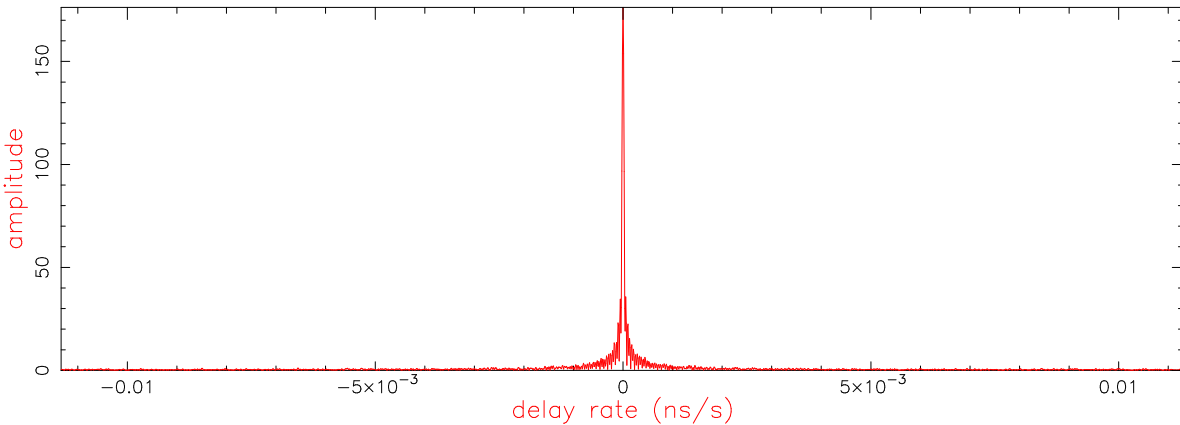
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	4.21892029179E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.20790E-06	+/-	3.6E-05
Sband delay (usec)	4.25333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.25333E-04	+/-	3.6E-05
Phase delay (usec)	3.99535430245E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.99535E-06	+/-	2.9E-09
Delay rate (us/s)	9.63638362635E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.63638E-11	+/-	1.7E-11
Total phase (deg)	110.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	110.5	+/-	0.1

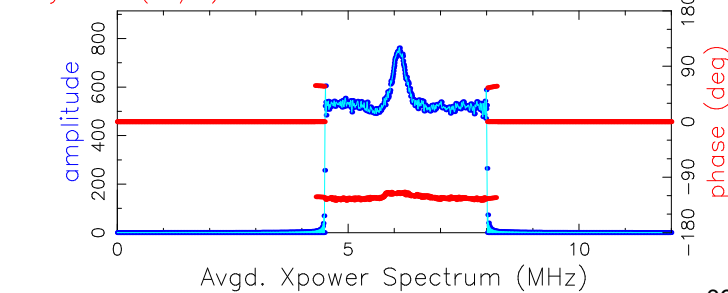
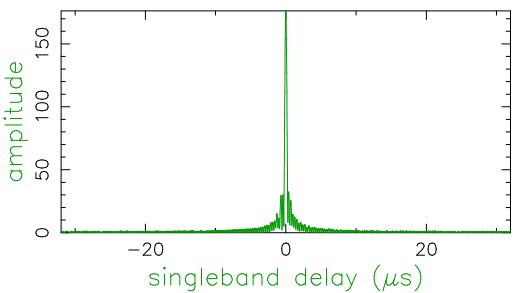
ph/seg (deg)	2.1	Theor.	0.8	Amplitude	176.258 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.3	Search (2048X8)	176.256	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	51.669	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	176.257	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 177.6 el 70.7 pa -1.3 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/ff..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/ff.W.36.1T5H2H

Fringe quality 5

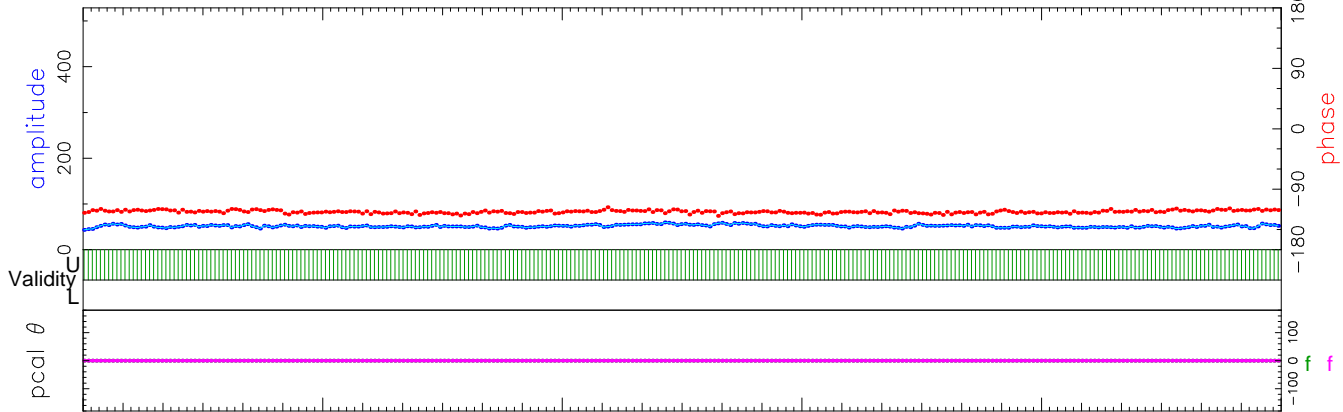


SNR 1278.0  
Int time 299.973  
Amp 176.258  
Phase -110.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.000425  
MBD -0.000006  
Fringe rate (Hz)  
-0.000008  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



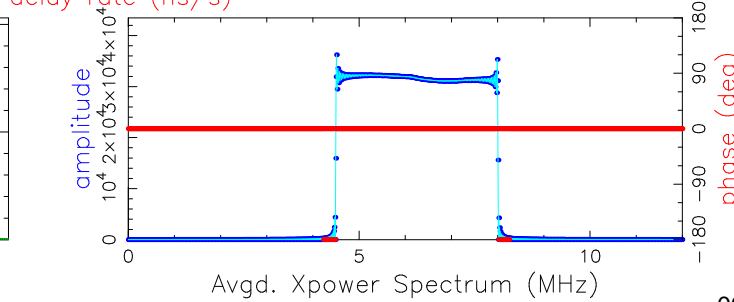
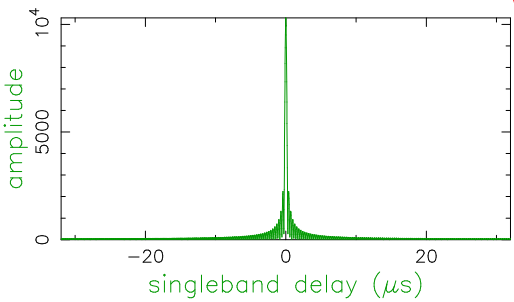
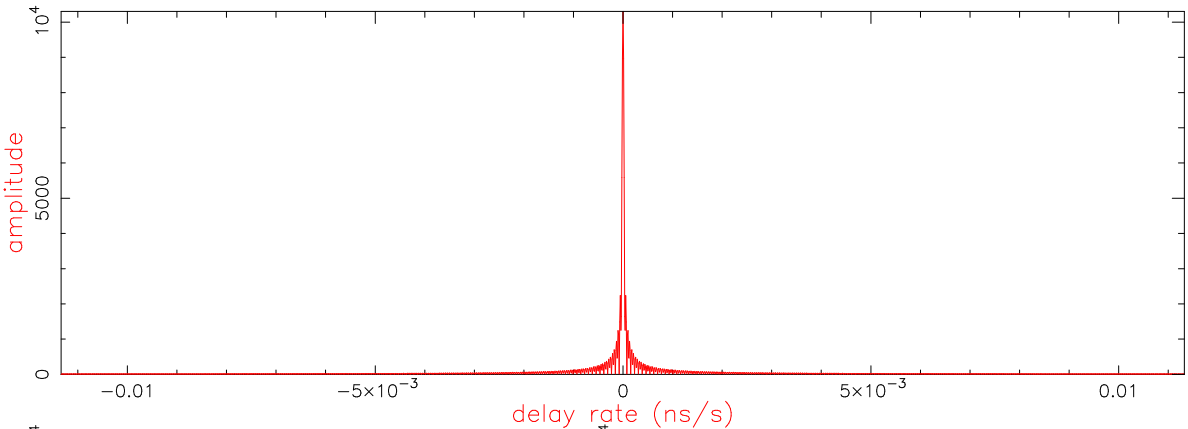
86227.00  
-123.5  
51.6  
1537.0  
U/L 586/0  
f 0  
f 0  
f:f 0:0  
f:f 0:0  
f 1000  
f 1000  
f W03UR  
f W03UL

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

Group delay (usec)(sbd)	-4.23380147750E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.87751E-06	+/-	3.6E-05
Sband delay (usec)	-4.25333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-4.25333E-04	+/-	3.6E-05
Phase delay (usec)	-3.98122679472E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.98123E-06	+/-	2.9E-09
Delay rate (us/s)	-9.63638362635E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-9.63638E-11	+/-	1.7E-11
Total phase (deg)	-110.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-110.4	+/-	0.1

ph/seg (deg)	2.1	Theor.	0.8	Amplitude	176.258 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.3	Search (2048X8)	176.256	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.	51.669	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	176.257	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 177.6 el 70.7 pa -1.3 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/ff..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/ff.W.42.1T5H2H

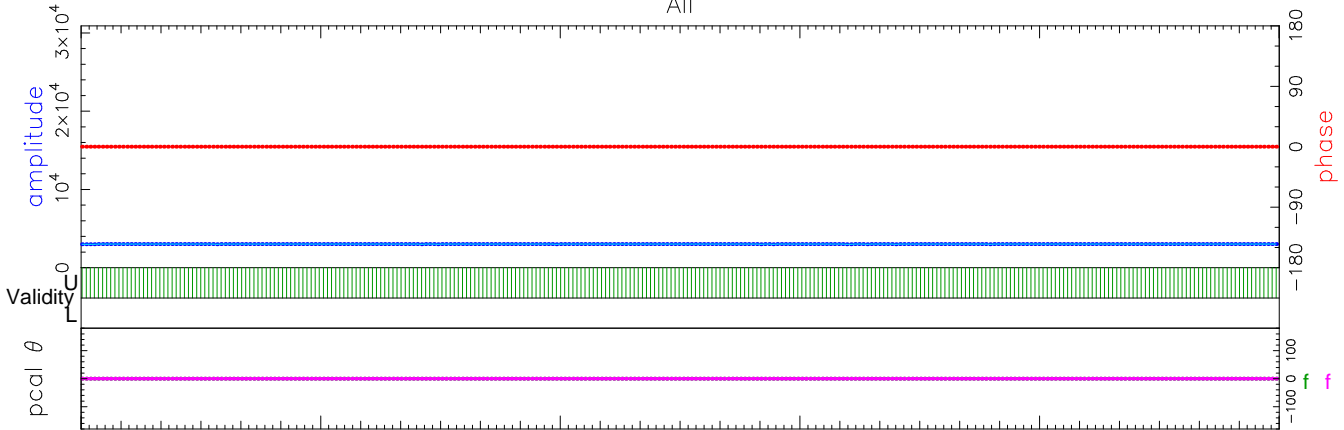


Fringe quality 5

SNR 74716.2  
Int time 299.973  
Amp 10304.345  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052018  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
3018.9  
1537.0  
U/L 586/0  
f 0  
f 0  
f:f 0:0  
f:f 0:0  
f 1000  
f 1000  
f W03UL  
f W03UL

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

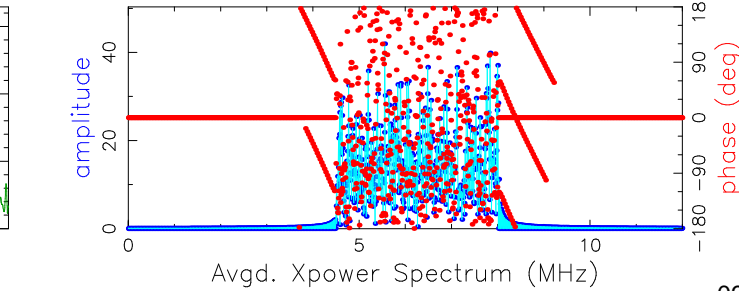
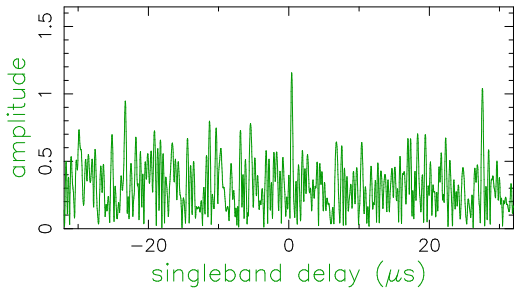
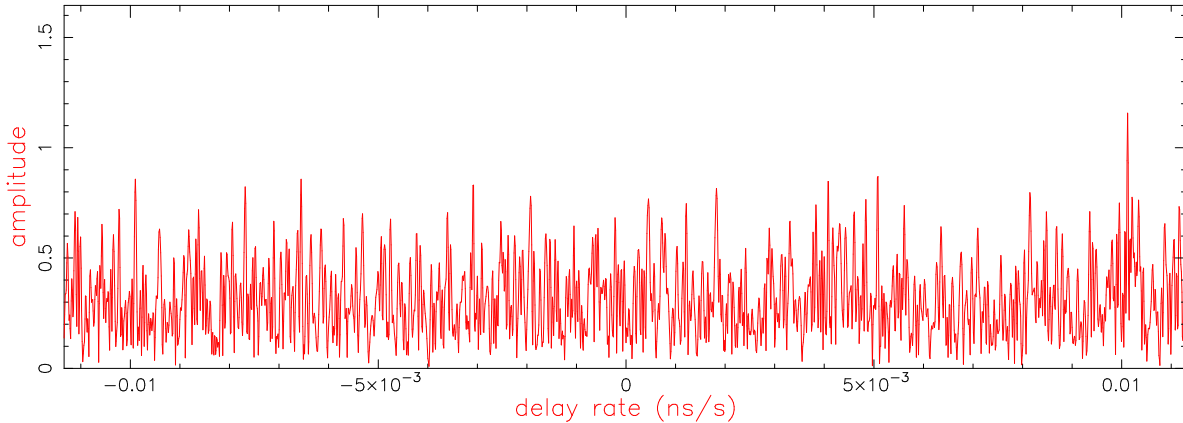
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.79673420158E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.79673E-06	+/-	6.1E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.1E-07
Phase delay (usec)	5.1787355546E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.17874E-09	+/-	4.9E-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	10304.345 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10304.345	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.	3018.851	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10304.345	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

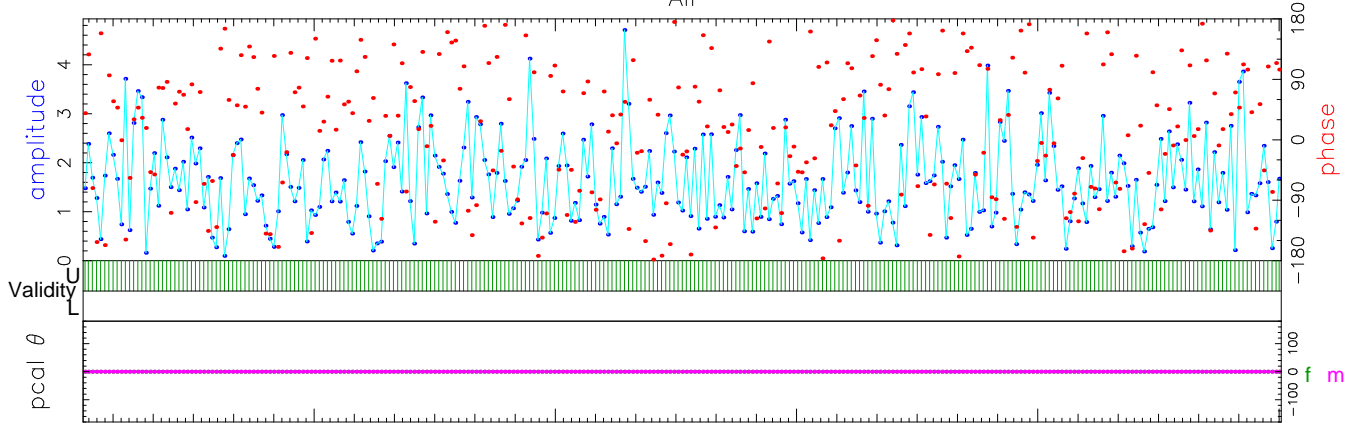
f: az 177.6 el 70.7 pa -1.3 f: az 177.6 el 70.7 pa -1.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/ff..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/ff.W.9.1T5H2H

Fringe quality 8



SNR 8.4  
Int time 296.980  
Amp 1.645  
Phase -173.9  
PFD 1.1e-09  
Delays (us)  
SBD 0.409860  
MBD 0.000007  
Fringe rate (Hz)  
0.870971  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
62.6  
0.5  
1556.7  
U/L 581/0  
f 0  
m 0  
f:m 0:0  
f:m 0:0  
f 1000  
m 1000  
f W03UL  
m W03UL

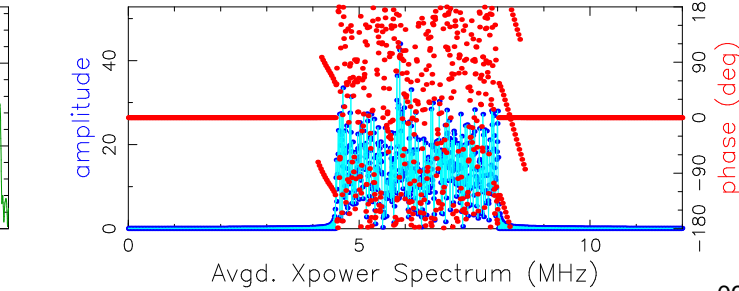
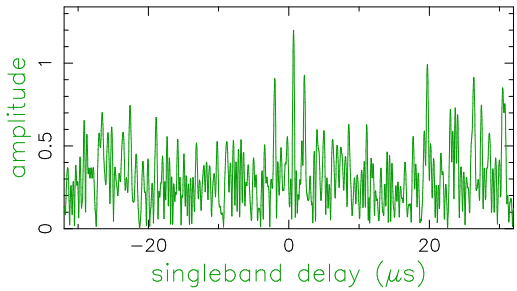
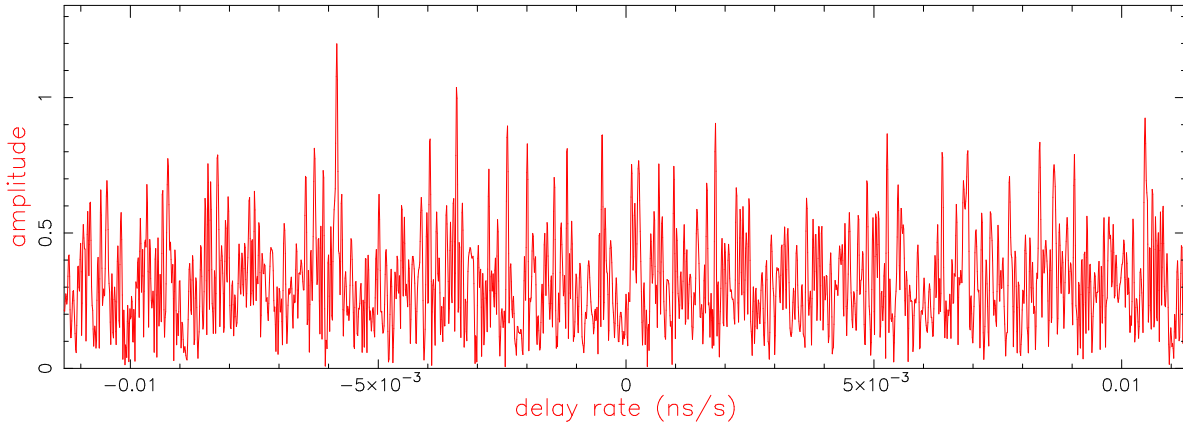
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	6.49977329182E+03	Apriori delay (usec)	6.49936343615E+03	Resid mbdelay (usec)	7.24590E-06	+/-	5.5E-03
Sband delay (usec)	6.49977329615E+03	Apriori clock (usec)	-5.4552994E+00	Resid sbdelay (usec)	4.09860E-01	+/-	5.5E-03
Phase delay (usec)	6.49936343817E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.01759E-06	+/-	4.4E-07
Delay rate (us/s)	-1.11989782205E+00	Apriori rate (us/s)	-1.11990793316E+00	Resid rate (us/s)	1.01111E-05	+/-	2.6E-09
Total phase (deg)	-33.5	Apriori accel (us/s/s)	-3.08130301815E-05	Resid phase (deg)	-173.9	+/-	13.7

ph/seg (deg)	RMS 95.1	Theor. 117.0	Amplitude Search (2048X8)	1.645 +/- 0.197	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.7	204.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.753	Bits/sample: 2x2	Sample rate(MISamp/s): 24	nlags: 1536	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.632	Data rate(Mb/s): 48	ion window (TEC)	0.00	0.00	0.00	0.00

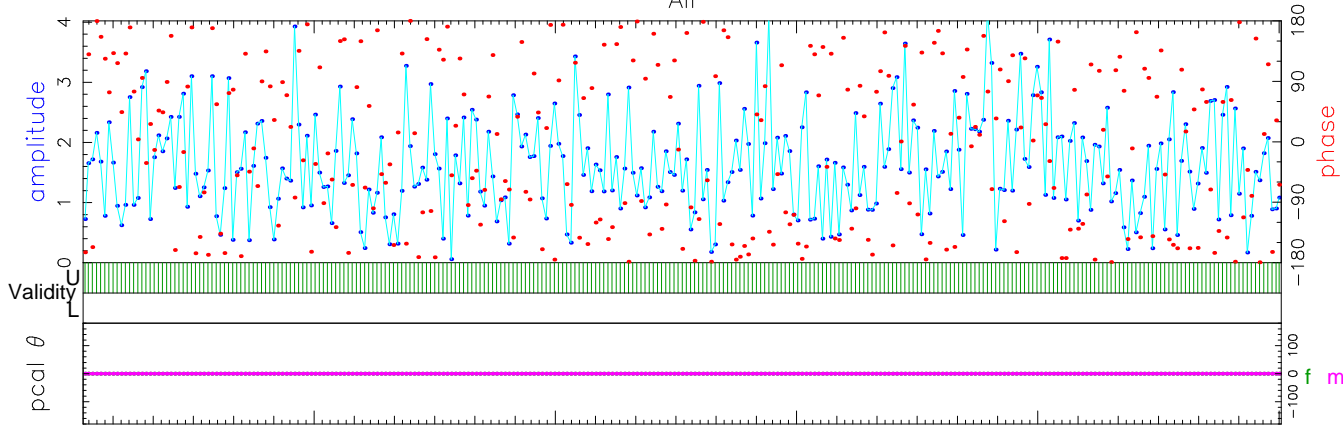
f: az 177.6 el 70.7 pa -1.3 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 6513.392 988.690 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fm.W.23.1T5H2H

Fringe quality 8



SNR 8.7  
Int time 296.980  
Amp 1.341  
Phase -24.4  
PFD 8.4e-11  
Delays (us)  
SBD 0.672847  
MBD -0.000005  
Fringe rate (Hz)  
-0.501754  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
169.3  
0.4  
1569.3  
U/L 581/0  
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)	6.50003628329E+03	Apriori delay (usec)	6.49936343615E+03	Resid mbdelay (usec)	-4.75378E-06	+/-	5.3E-03
Sband delay (usec)	6.50003628282E+03	Apriori clock (usec)	-5.4552994E+00	Resid sbdelay (usec)	6.72847E-01	+/-	5.3E-03
Phase delay (usec)	6.49936344161E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	5.45907E-06	+/-	4.3E-07
Delay rate (us/s)	-1.11991375804E+00	Apriori rate (us/s)	-1.11990793316E+00	Resid rate (us/s)	-5.82487E-06	+/-	2.5E-09
Total phase (deg)	-244.0	Apriori accel (us/s/s)	-3.08130301815E-05	Resid phase (deg)	-24.4	+/-	13.2

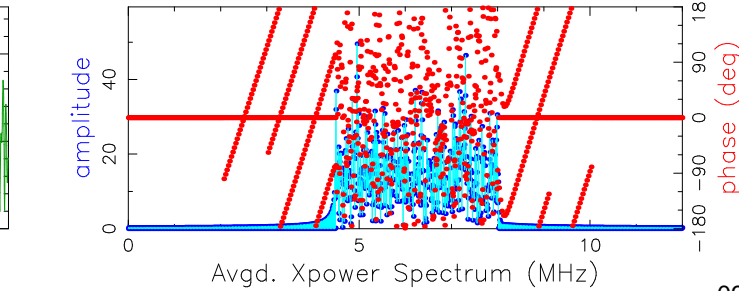
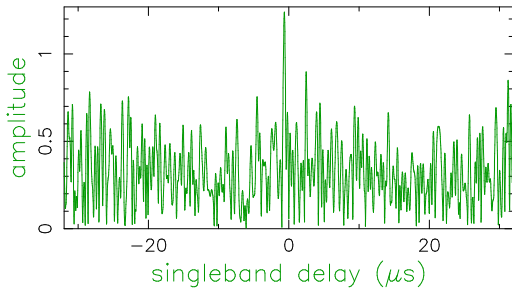
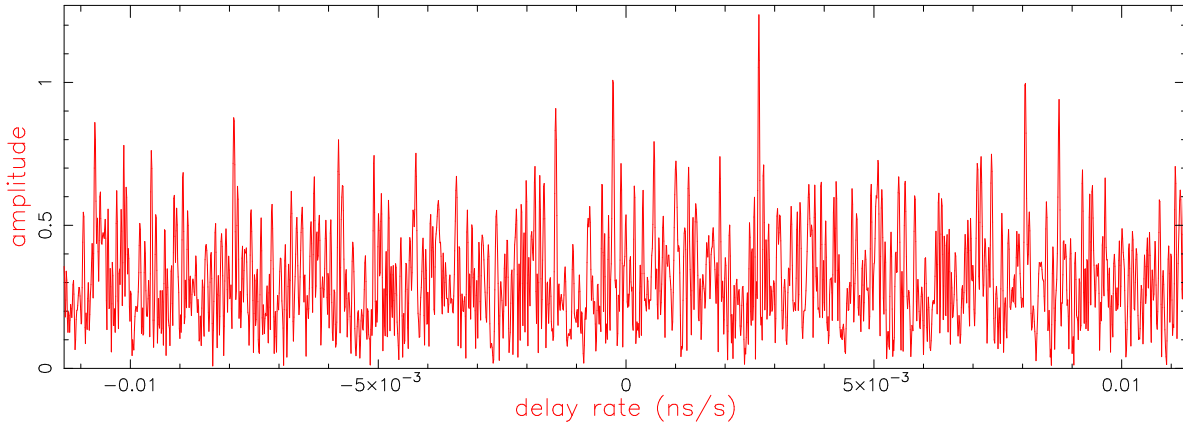
ph/seg (deg)	89.0	Theor.	112.9	Amplitude	1.341 +/- 0.155	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.5		197.0	Search (2048X8)	1.193	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		6.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		11.6	Inc. seg. avg.	0.620	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1.331	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

f: az 177.6 el 70.7 pa -1.3 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 6513.392 988.690 simultaneous interpolator

Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fm.W.45.1T5H2H

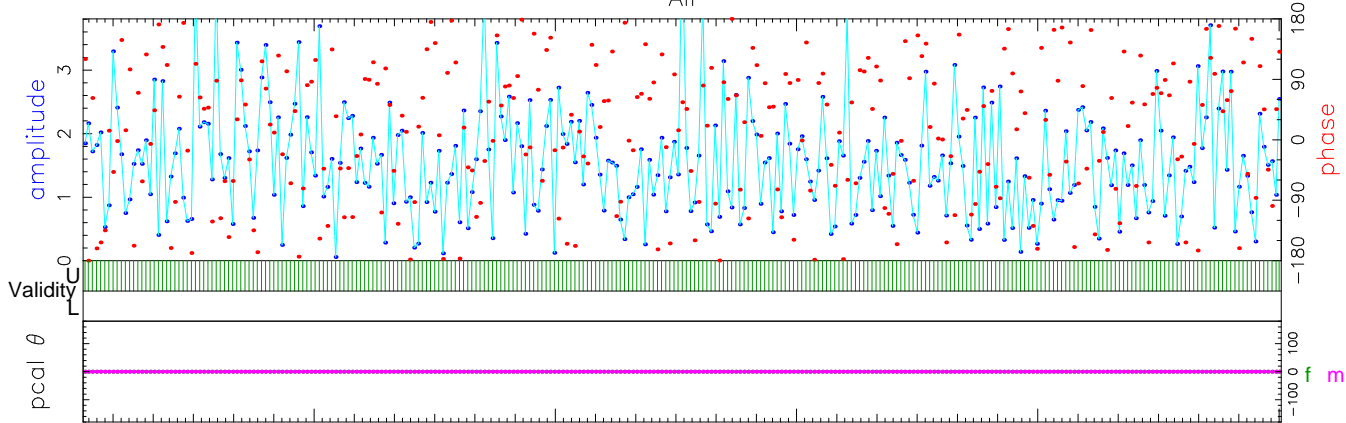


Fringe quality 8



SNR 8.9  
Int time 296.980  
Amp 1.269  
Phase 333.5  
PFD 6.5e-12  
Delays (us)  
SBD -0.640245  
MBD 0.000004  
Fringe rate (Hz)  
0.230542  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



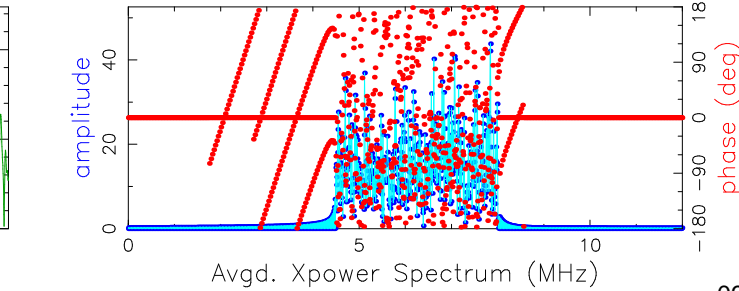
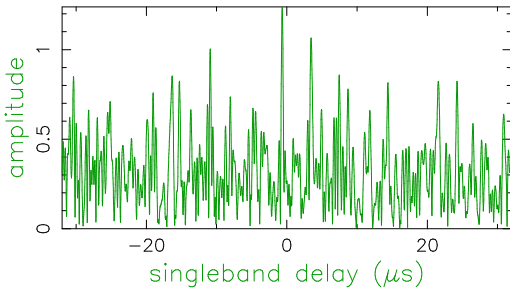
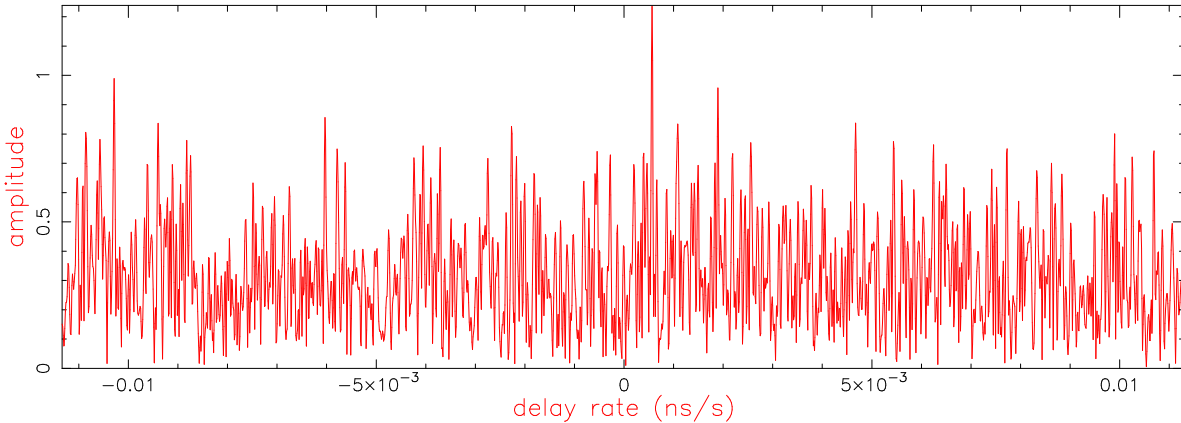
86227.00  
80.8  
0.4  
1506.3  
U/L 581/0  
f 0  
m 0  
f:m 0:0  
f:m 0:0  
f 1000  
m 1000  
f W03UL  
m W03UR

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

Group delay (usec)(sbd)	6.49872318865E+03	Apriori delay (usec)	6.49936343615E+03	Resid mbdelay (usec)	4.38832E-06	+/-	5.1E-03
Sband delay (usec)	6.49872319082E+03	Apriori clock (usec)	-5.4552994E+00	Resid sbdelay (usec)	-6.40245E-01	+/-	5.1E-03
Phase delay (usec)	6.49936343876E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.60643E-06	+/-	4.1E-07
Delay rate (us/s)	-1.11990525680E+00	Apriori rate (us/s)	-1.11990793316E+00	Resid rate (us/s)	2.67636E-06	+/-	2.4E-09
Total phase (deg)	113.9	Apriori accel (us/s/s)	-3.08130301815E-05	Resid phase (deg)	333.5	+/-	12.8

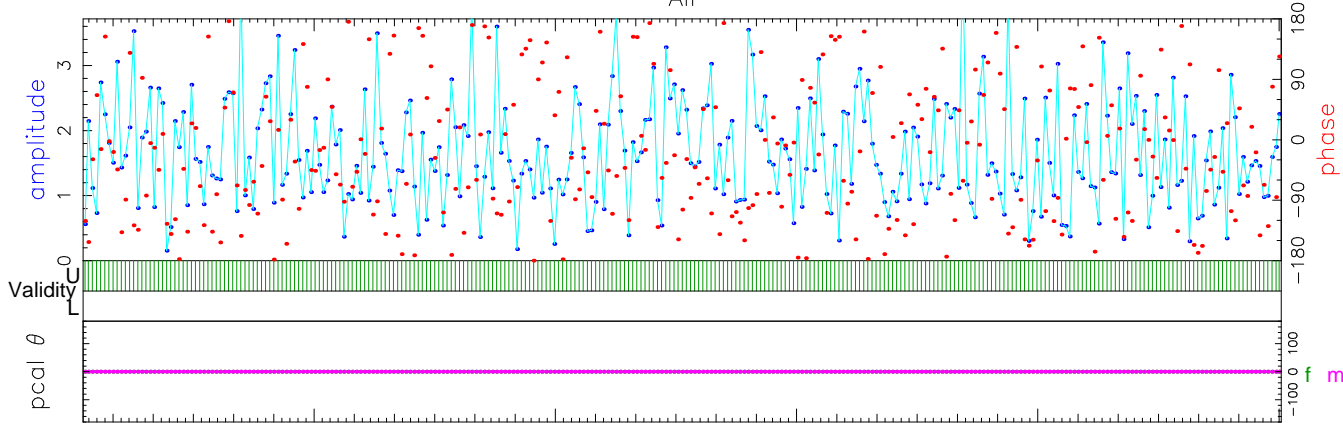
ph/seg (deg)	RMS 93.5	Theor. 109.2	Amplitude Search (2048X8)	1.269 +/- 0.142	1.227	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	75.1	190.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.569	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.8	11.2	Inc. frq. avg.	1.257	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011	
				u,v (fr/asec) 6513.392 988.690		nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.9  
Int time 296.980  
Amp 1.239  
Phase 26.2  
PFD 7.7e-12  
Delays (us)  
SBD -0.658197  
MBD 0.000004  
Fringe rate (Hz)  
0.048607  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

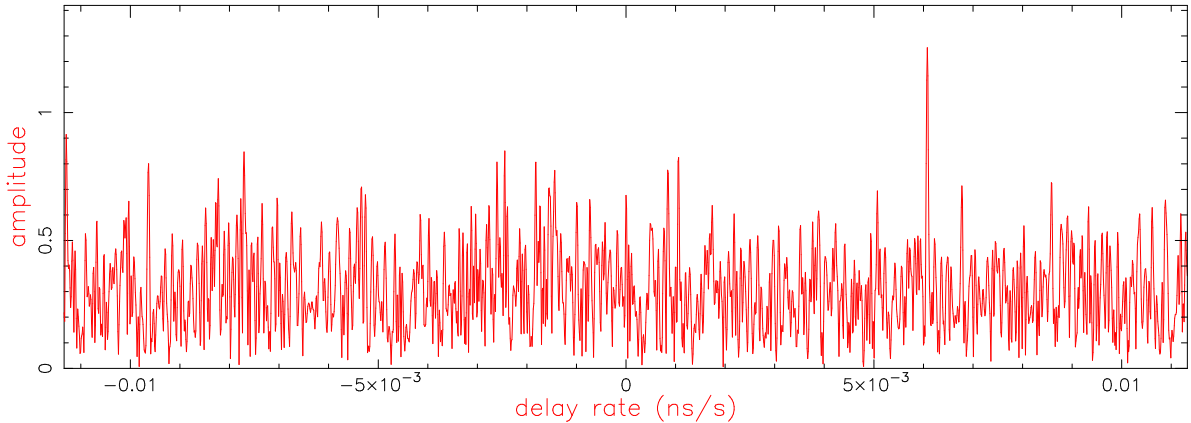


86227.00  
-68.7  
0.4  
1505.4  
U/L 581/0  
f 0  
m 0  
f:m 0:0  
f:m 0:0  
f 1000  
m 1000  
f W03UR  
m W03UL

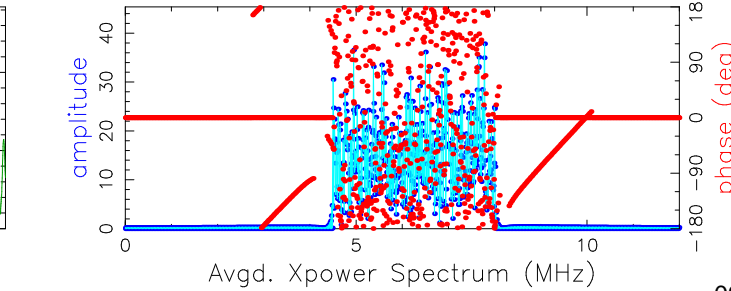
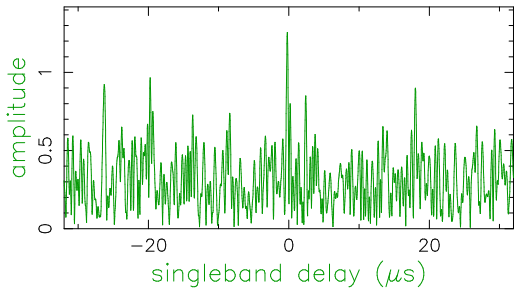
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	6.49870523606E+03	Apriori delay (usec)	6.49936343615E+03	Resid mbdelay (usec)	4.42015E-06	+/-	5.1E-03
Sband delay (usec)	6.49870523882E+03	Apriori clock (usec)	-5.4552994E+00	Resid sbdelay (usec)	-6.58197E-01	+/-	5.1E-03
Phase delay (usec)	6.49936343393E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.21625E-06	+/-	4.1E-07
Delay rate (us/s)	-1.11990736888E+00	Apriori rate (us/s)	-1.11990793316E+00	Resid rate (us/s)	5.64283E-07	+/-	2.4E-09
Total phase (deg)	166.6	Apriori accel (us/s/s)	-3.08130301815E-05	Resid phase (deg)	26.2	+/-	12.8
ph/seg (deg)	RMS 93.1	Theor. 109.5	Amplitude 1.239 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
amp/seg (%)	75.6	191.0	Search (2048X8) 1.229	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. 0.592	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011
amp/frq (%)	70.7	11.2	Inc. frq. avg. 1.229	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8

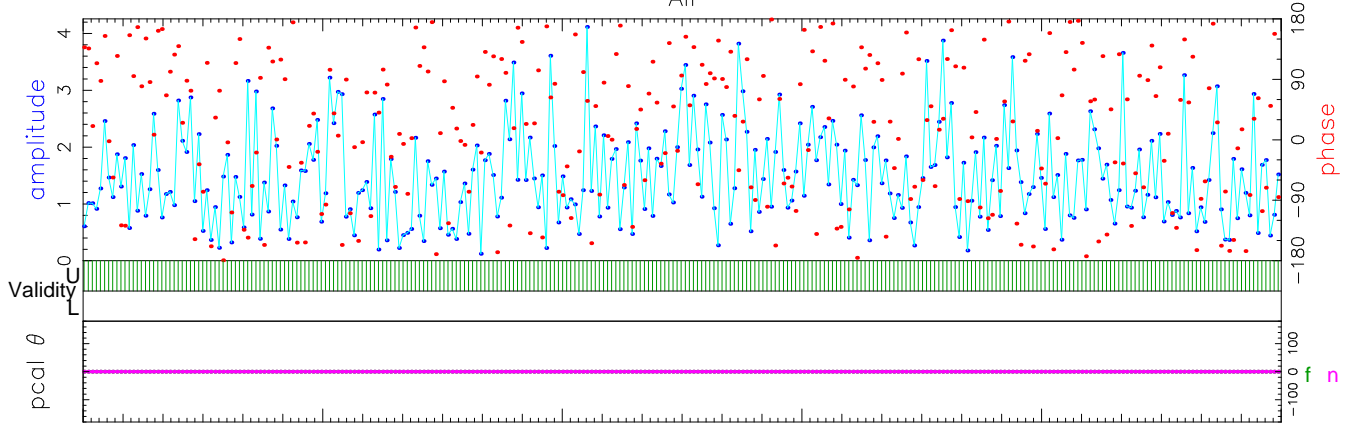


SNR 9.1  
Int time 299.973  
Amp 1.419  
Phase 60.0  
PFD 1.4e-12  
Delays (us)  
SBD -0.217512  
MBD 0.000006  
Fringe rate (Hz)  
0.523280  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

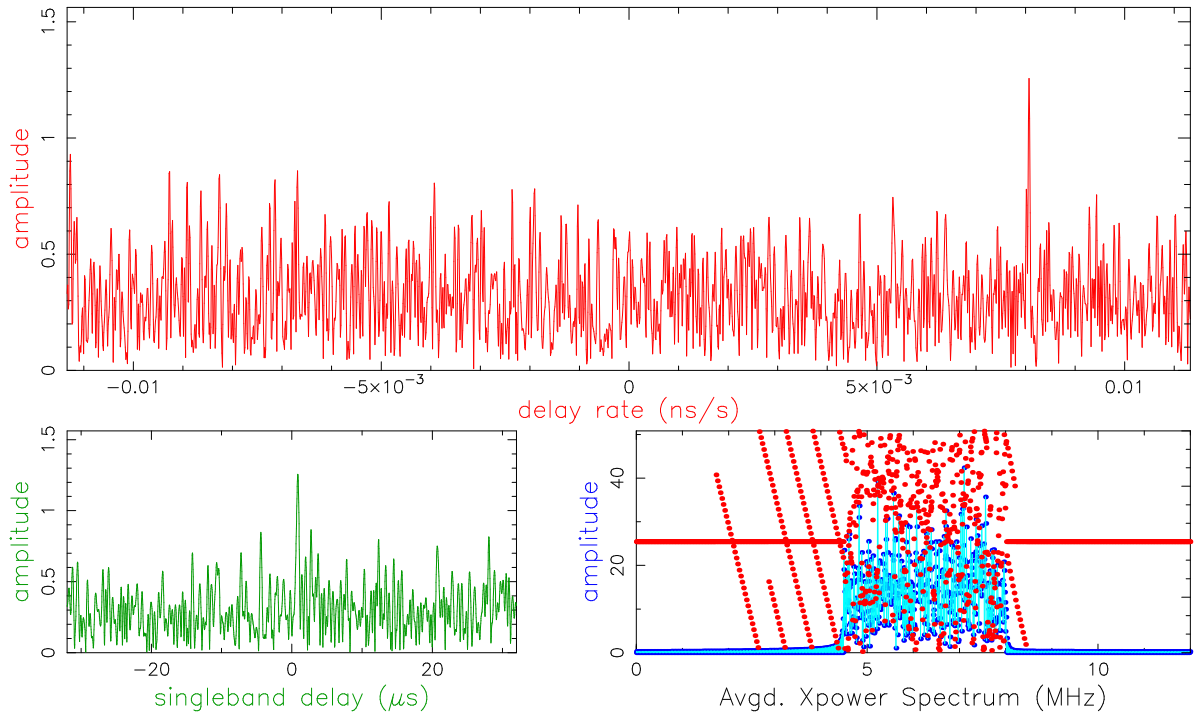


86227.00  
87.3  
0.4  
1526.6  
U/L 586/0  
f 0  
n 0  
f:n 0:0  
f:n 0:0  
f 1000  
n 1000  
f W03UL  
n W03UL

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

Group delay (usec)(sbd)	2.09042219724E+03	Apriori delay (usec)	2.09063971008E+03	Resid mbdelay (usec)	6.03718E-06	+/-	5.0E-03
Sband delay (usec)	2.09042219808E+03	Apriori clock (usec)	4.7777004E+00	Resid sbdelay (usec)	-2.17512E-01	+/-	5.0E-03
Phase delay (usec)	2.09063971290E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.81676E-06	+/-	4.1E-07
Delay rate (us/s)	2.44113573821E-01	Apriori rate (us/s)	2.44107499062E-01	Resid rate (us/s)	6.07476E-06	+/-	2.3E-09
Total phase (deg)	285.5	Apriori accel (us/s/s)	-1.45583529793E-05	Resid phase (deg)	60.0	+/-	12.6

ph/seg (deg)	RMS 95.1	Theor. 107.5	Amplitude Search (2048X8)	1.419 +/- 0.156	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.5	187.7	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.	0.612	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.0	Inc. frq. avg.	1.407	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
f: az 177.6 el 70.7 pa -1.3		n: az 201.7 el 57.9 pa 16.3		u,v (fr/asec) -1436.708 -1586.758		ion window (TEC) 0.00 0.00	

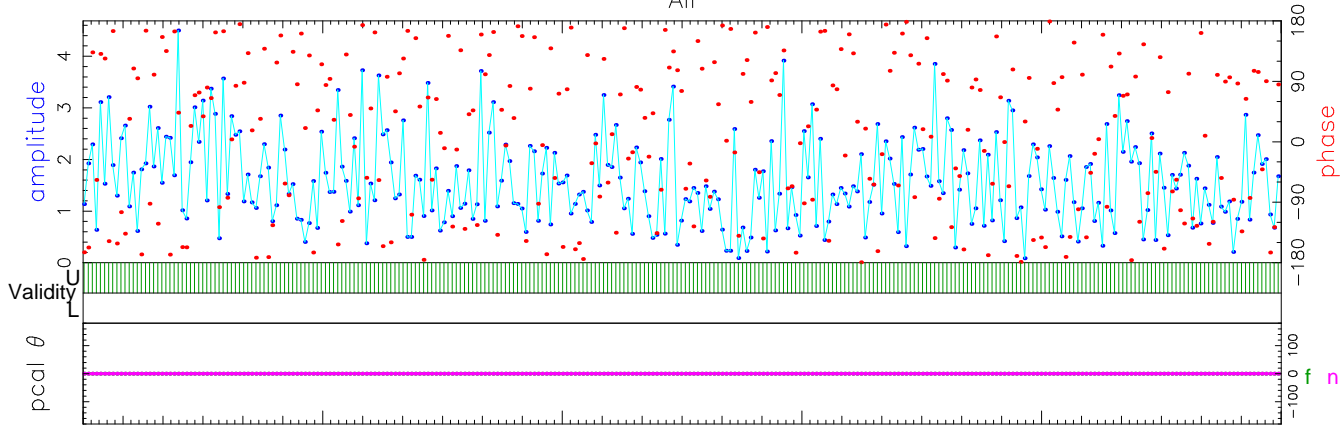


Fringe quality 8

SNR 9.1  
Int time 299.973  
Amp 1.562  
Phase -75.2  
PFD 1.5e-12  
Delays (us)  
SBD 0.857428  
MBD 0.000007  
Fringe rate (Hz)  
0.694935  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
139.3  
0.5  
1578.1  
U/L 586/0  
f 0  
n 0  
f:n 0:0  
f:n 0:0  
f 1000  
n 1000  
f W03UR  
n W03UR

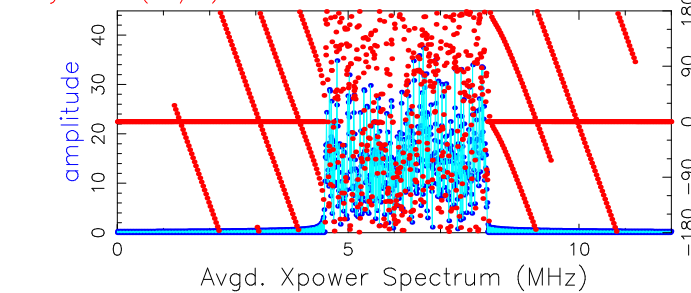
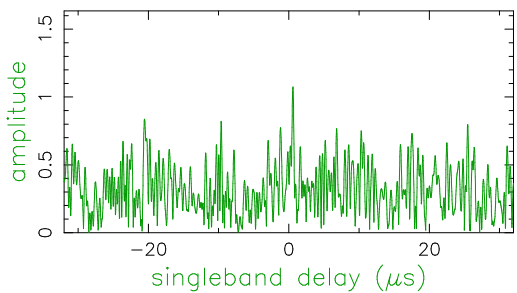
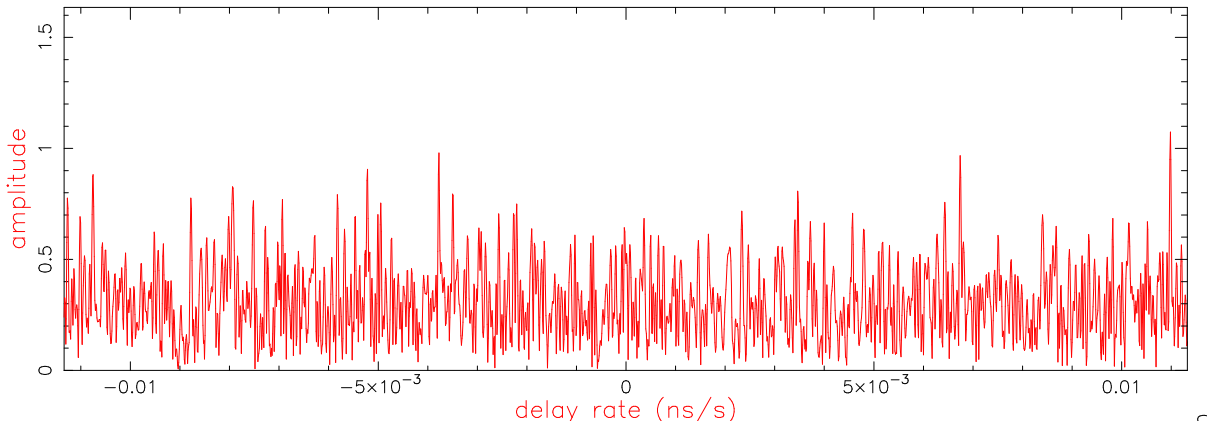
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	2.09149713975E+03	Apriori delay (usec)	2.09063971008E+03	Resid mbdelay (usec)	6.81773E-06	+/-	5.0E-03
Sband delay (usec)	2.09149713808E+03	Apriori clock (usec)	4.7777004E+00	Resid sbdelay (usec)	8.57428E-01	+/-	5.0E-03
Phase delay (usec)	2.09063971457E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.49176E-06	+/-	4.1E-07
Delay rate (us/s)	2.44115566565E-01	Apriori rate (us/s)	2.44107499062E-01	Resid rate (us/s)	8.06750E-06	+/-	2.3E-09
Total phase (deg)	-209.8	Apriori accel (us/s/s)	-1.45583529793E-05	Resid phase (deg)	-75.2	+/-	12.6

ph/seg (deg)	RMS 92.0	Theor. 107.6	Amplitude Search (2048X8)	1.562 +/- 0.171	1.237	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.2	187.9	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	6.3	Inc. seg. avg.	0.714	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.553	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
f: az 177.6 el 70.7 pa -1.3				n: az 201.7 el 57.9 pa 16.3	u,v (fr/asec) -1436.708 -1586.758	nlags: 1536 t_cohere infinite	
Control file: cf_1234_gmva_line				Input file: /Exps/c211d/v1/LINES1/1234/No0021/fn..1T5H2H		Output file: /Exps/c211d/v1/LINES1/1234/No0021/fn.W.31.1T5H2H	

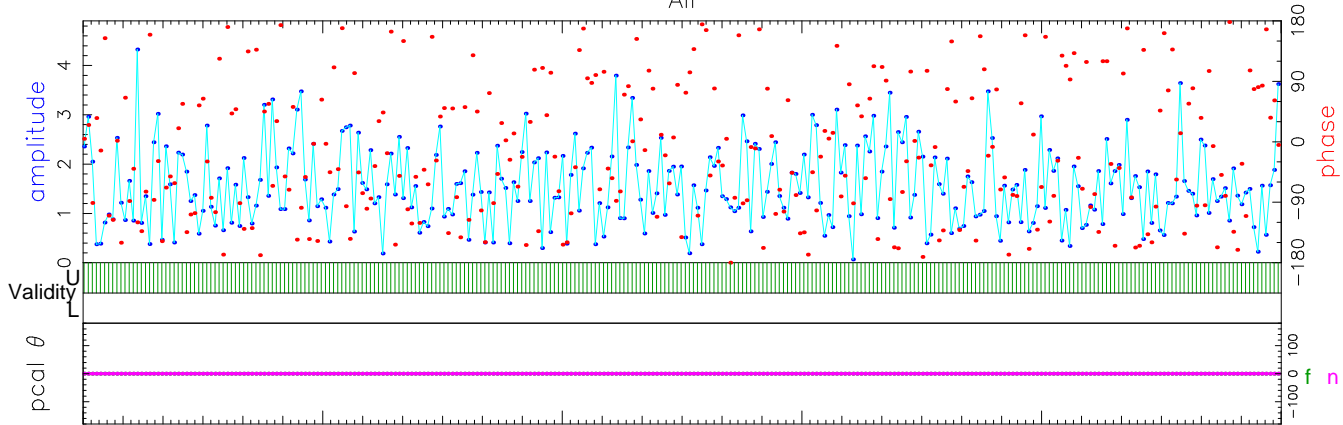
simultaneous interpolator

Fringe quality 8



SNR 7.8  
Int time 299.973  
Amp 1.635  
Phase -283.8  
PFD 1.1e-07  
Delays (us)  
SBD 0.581864  
MBD 0.000007  
Fringe rate (Hz)  
0.945326  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-60.0  
0.5  
1564.9  
U/L 586/0  
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  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	2.09122157683E+03	Apriori delay (usec)	2.09063971008E+03	Resid mbdelay (usec)	7.24349E-06	+/-	5.9E-03
Sband delay (usec)	2.09122157408E+03	Apriori clock (usec)	4.7777004E+00	Resid sbdelay (usec)	5.81864E-01	+/-	5.9E-03
Phase delay (usec)	2.09063970814E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-1.93488E-06	+/-	4.7E-07
Delay rate (us/s)	2.44118473357E-01	Apriori rate (us/s)	2.44107499062E-01	Resid rate (us/s)	1.09743E-05	+/-	2.7E-09
Total phase (deg)	-58.4	Apriori accel (us/s/s)	-1.45583529793E-05	Resid phase (deg)	-283.8	+/-	14.7

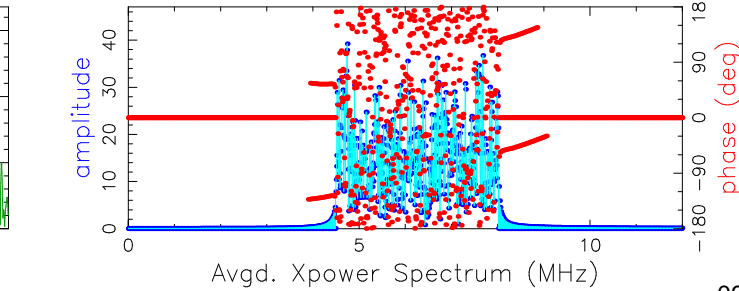
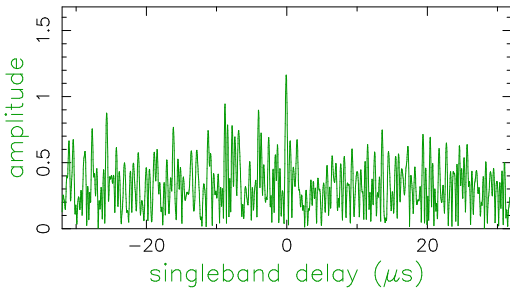
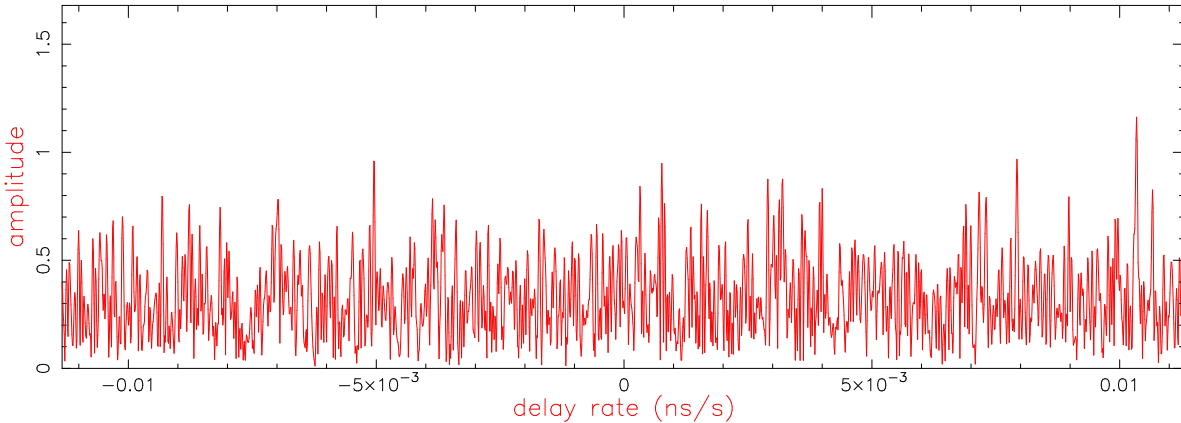
ph/seg (deg)	RMS 96.2	Theor. 125.9	Amplitude Search (2048X8)	1.635 +/- 0.210	1.066	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	86.9	219.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.694	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.8	Inc. frq. avg.	1.622	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

f: az 177.6 el 70.7 pa -1.3 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -1436.708 -1586.758 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fn.W.50.1T5H2H

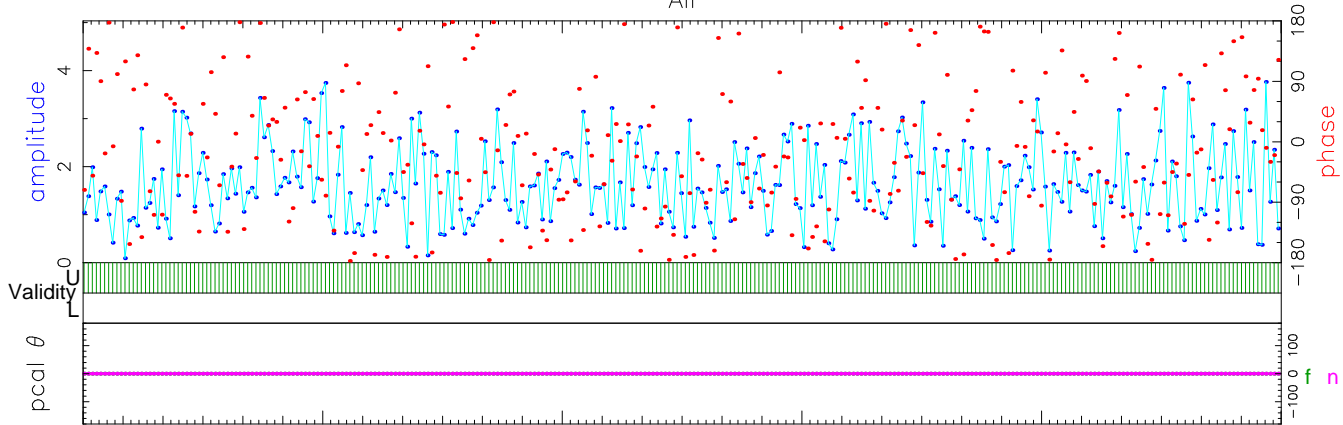
Fringe quality 8

SNR 8.4  
Int time 299.973  
Amp 1.680  
Phase 147.9  
PFD 5.9e-10  
Delays (us)  
SBD -0.086367  
MBD 0.000004  
Fringe rate (Hz)  
0.889444  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



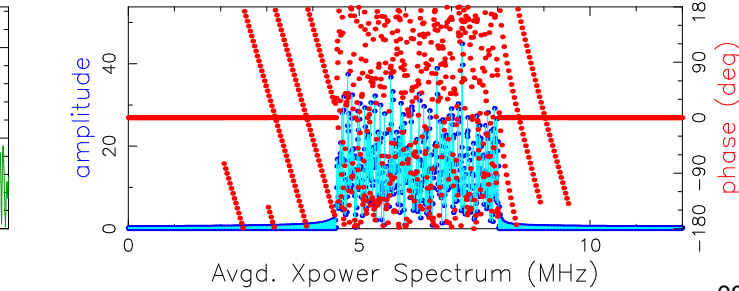
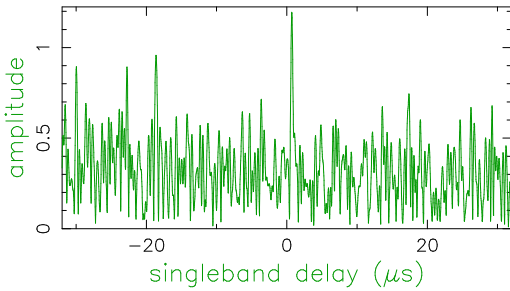
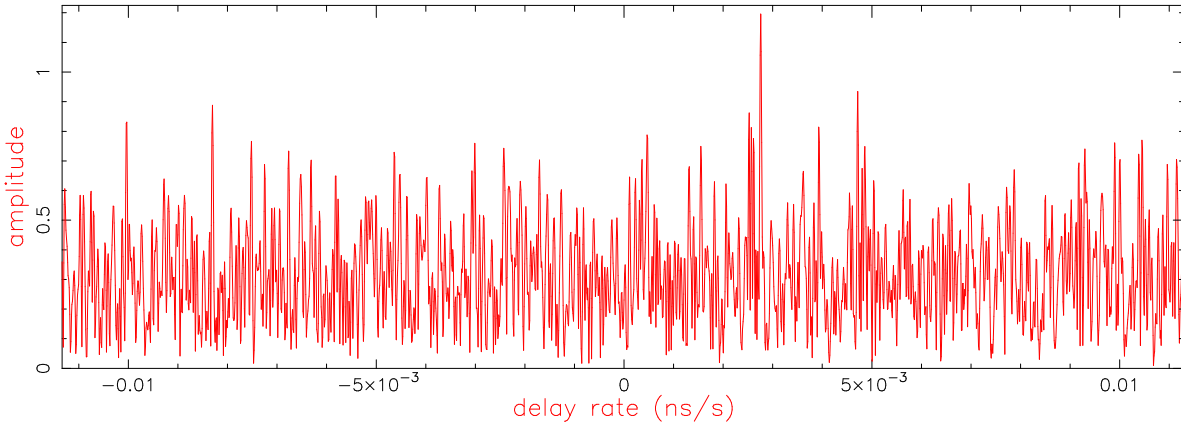
86227.00  
-37.4  
0.5  
1532.9  
U/L 586/0  
f 0  
n 0  
f:n 0:0  
f:n 0:0  
f 1000  
n 1000  
f W03UR  
n W03UL

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)	2.09055333777E+03	Apriori delay (usec)	2.09063971008E+03	Resid mbdelay (usec)	4.35169E-06	+/-	5.5E-03
Sband delay (usec)	2.09055334341E+03	Apriori clock (usec)	4.7777004E+00	Resid sbdelay (usec)	-8.63667E-02	+/-	5.5E-03
Phase delay (usec)	2.09063970887E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-1.20754E-06	+/-	4.4E-07
Delay rate (us/s)	2.44117824629E-01	Apriori rate (us/s)	2.44107499062E-01	Resid rate (us/s)	1.03256E-05	+/-	2.5E-09
Total phase (deg)	13.3	Apriori accel (us/s/s)	-1.45583529793E-05	Resid phase (deg)	147.9	+/-	13.6

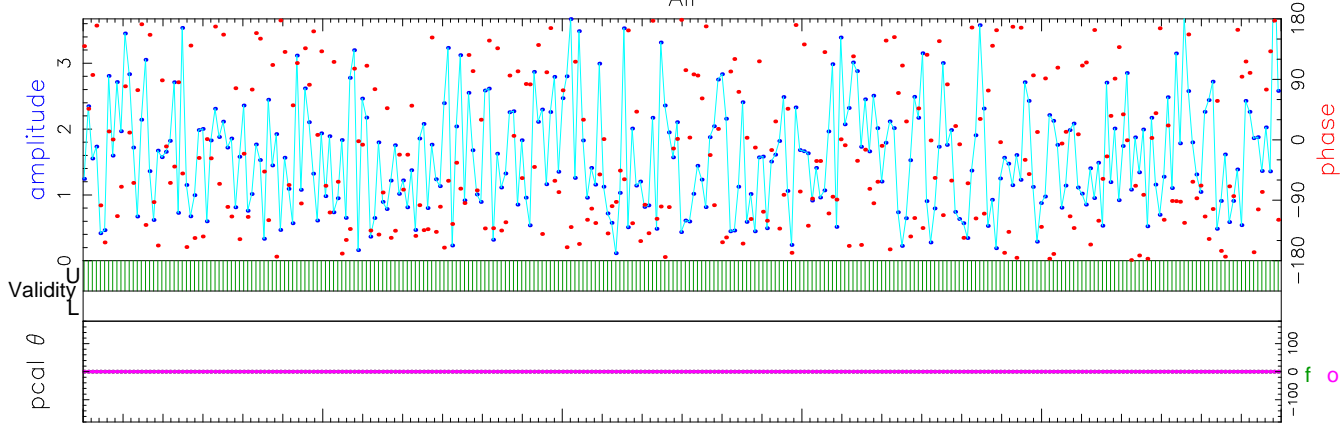
ph/seg (deg)	RMS 93.2	Theor. 116.3	Amplitude Search (2048X8)	1.680 +/- 0.199	1.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.2	203.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.776	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.668	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) -1436.708 -1586.758	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8



SNR 8.7  
Int time 299.950  
Amp 1.225  
Phase -10.0  
PFD 7.7e-11  
Delays (us)  
SBD 0.709055  
MBD 0.000007  
Fringe rate (Hz)  
0.237121  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052019  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



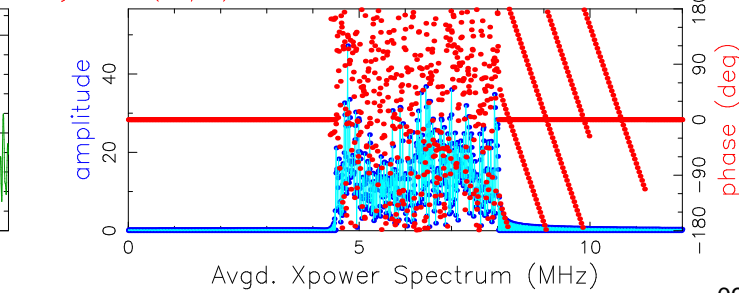
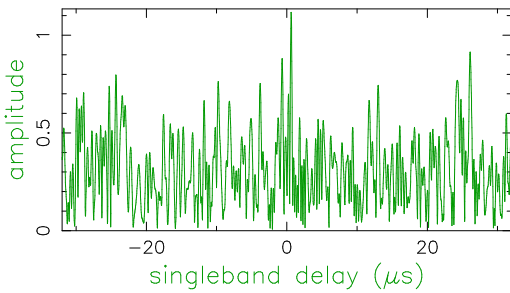
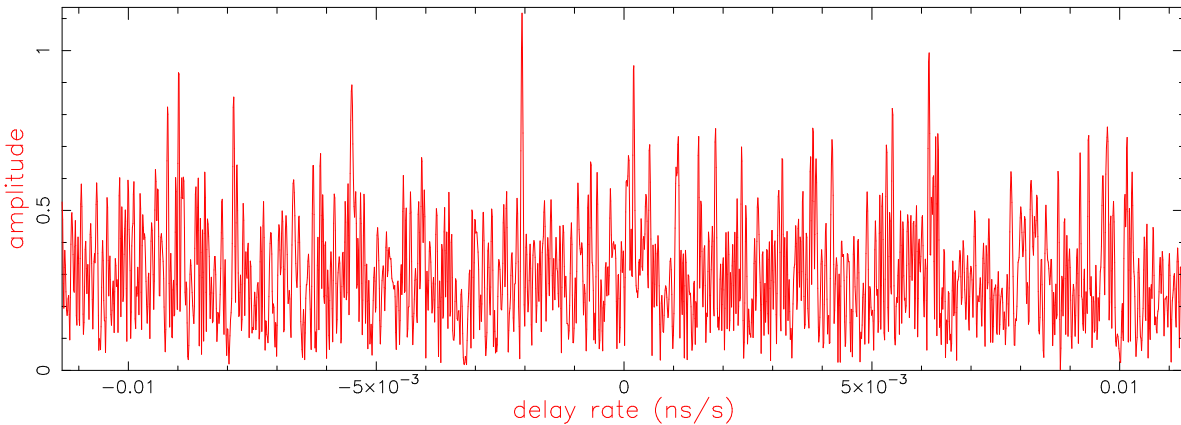
86227.00  
-122.7  
0.4  
1571.0  
U/L 586/0  
f 0  
o 0  
f:o 0:0  
f:o 0:0  
f 1000  
o 1000  
f W03UL  
o W03UL

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)	1.47803357713E+03	Apriori delay (usec)	1.47732452354E+03	Resid mbdelay (usec)	6.54041E-06	+/-	5.3E-03
Sband delay (usec)	1.47803357820E+03	Apriori clock (usec)	6.5067005E+00	Resid sbdelay (usec)	7.09055E-01	+/-	5.3E-03
Phase delay (usec)	1.47732451958E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.95649E-06	+/-	4.3E-07
Delay rate (us/s)	-2.99769897533E-01	Apriori rate (us/s)	-2.99772650271E-01	Resid rate (us/s)	2.75274E-06	+/-	2.5E-09
Total phase (deg)	-205.3	Apriori accel (us/s/s)	-9.93511171997E-06	Resid phase (deg)	-10.0	+/-	13.2

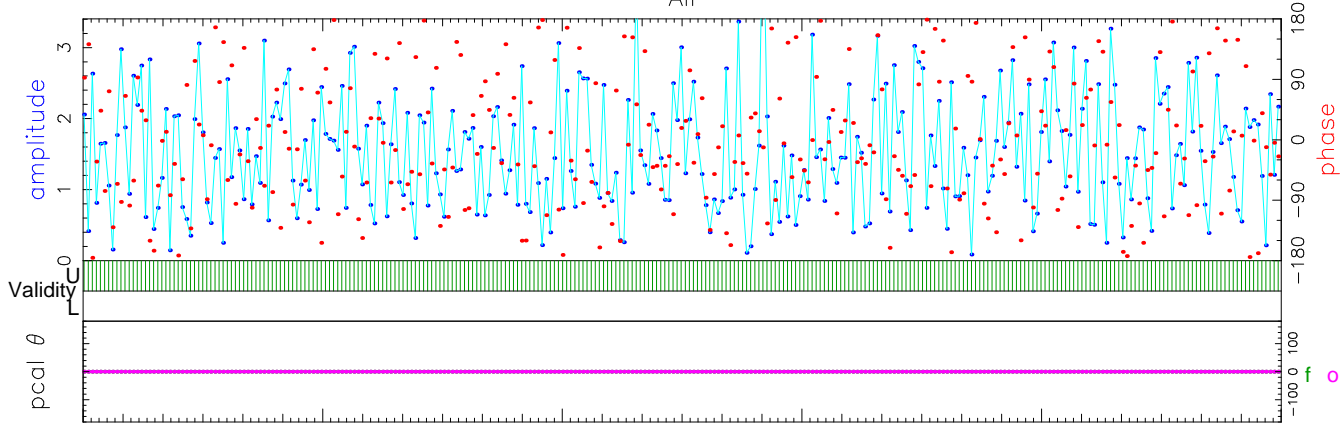
ph/seg (deg)	RMS 91.9	Theor. 113.1	Amplitude Search (2048X8)	1.225 +/- 0.141	1.178	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.5	197.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.557	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.217	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
		f: az 177.6 el 70.7 pa -1.3		o: az 148.4 el 60.7 pa -24.7		u,v (fr/asec) 1743.448 -986.828	

Fringe quality 8



SNR 8.1  
Int time 299.950  
Amp 1.135  
Phase -211.3  
PFD 7.7e-09  
Delays (us)  
SBD 0.615115  
MBD -0.000005  
Fringe rate (Hz)  
-0.176870  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
1566.5  
U/L 586/0  
f 0  
o 0  
fo 0:0  
fo 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

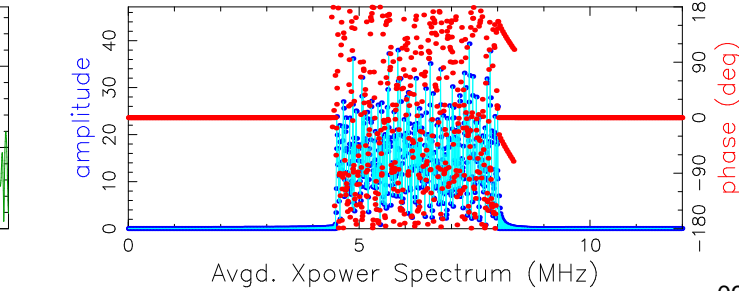
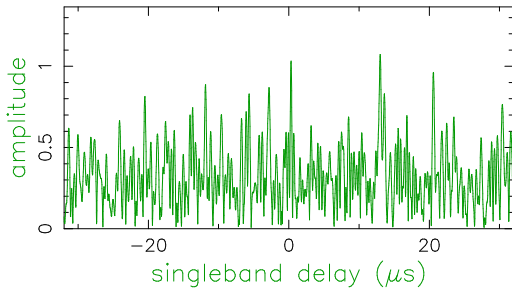
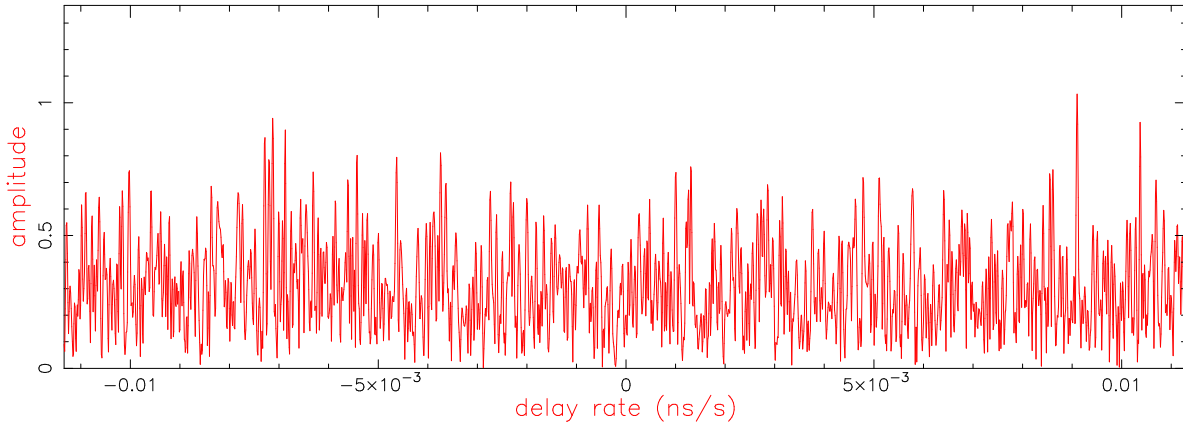
Group delay (usec)(sbd)	1.47793963920E+03	Apriori delay (usec)	1.47732452354E+03	Resid mbdelay (usec)	-4.88988E-06	+/- 5.7E-03
Sband delay (usec)	1.47793963820E+03	Apriori clock (usec)	6.5067005E+00	Resid sbdelay (usec)	6.15115E-01	+/- 5.7E-03
Phase delay (usec)	1.47732452271E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-8.30360E-07	+/- 4.6E-07
Delay rate (us/s)	-2.99774703554E-01	Apriori rate (us/s)	-2.99772650271E-01	Resid rate (us/s)	-2.05328E-06	+/- 2.6E-09
Total phase (deg)	-46.6	Apriori accel (us/s/s)	-9.93511171997E-06	Resid phase (deg)	-211.3	+/- 14.1

ph/seg (deg)	RMS 93.0	Theor. 120.8	Amplitude Search (2048X8)	1.135 +/- 0.140	1.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.3	210.8	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	7.1	Inc. seg. avg.	0.483	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.3	Inc. frq. avg.	1.123	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
f: az 177.6 el 70.7 pa -1.3		o: az 148.4 el 60.7 pa -24.7		u,v (fr/asec) 1743.448 -986.828		nlags: 1536 t_cohere infinite	
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0021/fo..1T5H2H		Output file: /Exps/c211d/v1/LINES1/1234/No0021/fo.W.30.1T5H2H		ion window (TEC) 0.00 0.00	

simultaneous interpolator

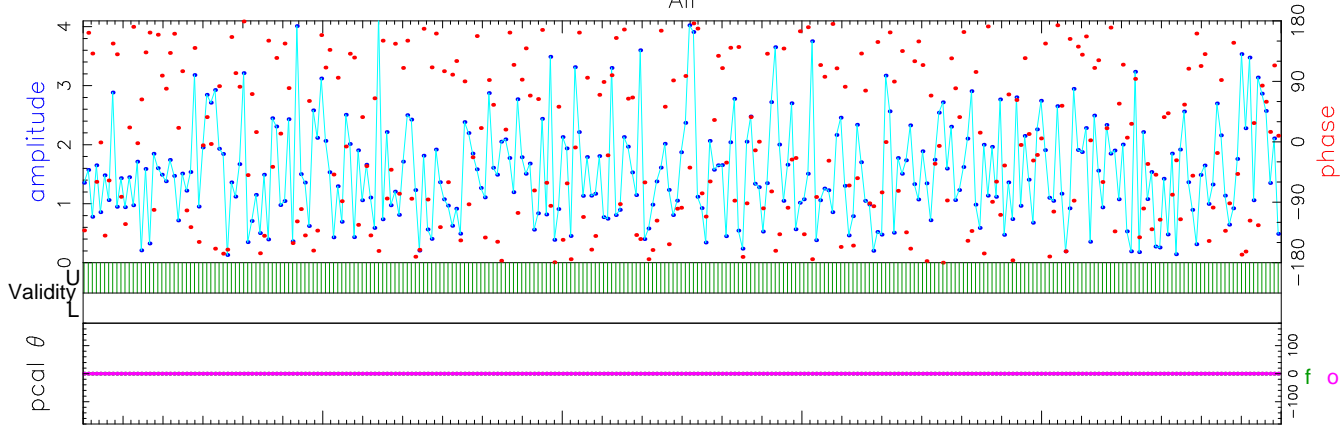


Fringe quality 8



SNR 7.5  
Int time 299.950  
Amp 1.366  
Phase -336.8  
PFD 1.1e-06  
Delays (us)  
SBD 0.315139  
MBD 0.000007  
Fringe rate (Hz)  
0.782946  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



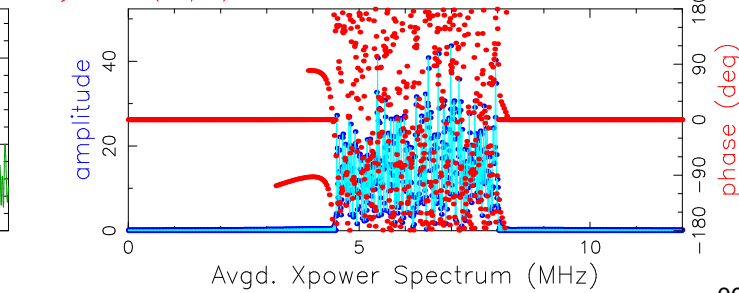
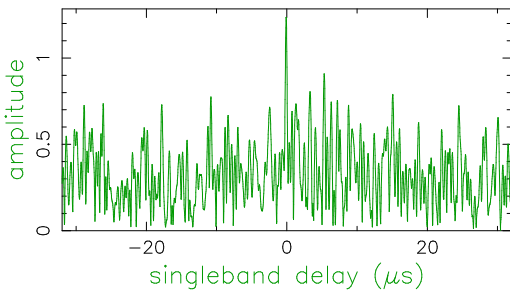
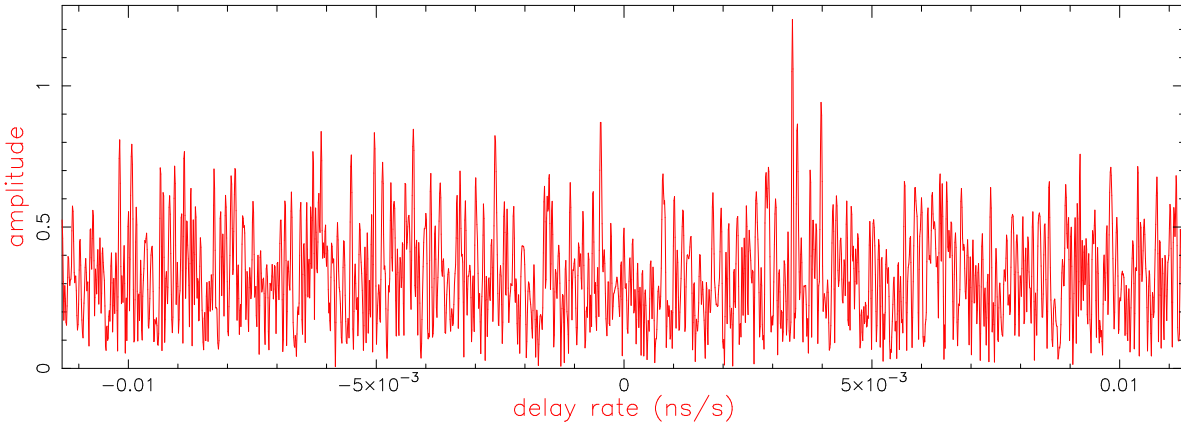
86227.00		Freq (MHz)
173.2		Phase
0.4		Ampl.
2161.4		Sbd box
U/L 586/0		APs used
f 0		PC freqs
o 0		PC freqs
f:o 0:0		PC phase
f:o 0:0		Manl PC
f 1000		PC amp
o 1000		
f W03UL		Chan ids
o W03UR		Chan ids

Group delay (usec)(sbd)	1.47763966409E+03	Apriori delay (usec)	1.47732452354E+03	Resid mbdelay (usec)	7.23841E-06	+/-	6.1E-03
Sband delay (usec)	1.47763966220E+03	Apriori clock (usec)	6.5067005E+00	Resid sbdelay (usec)	3.15139E-01	+/-	6.1E-03
Phase delay (usec)	1.47732452912E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	5.58514E-06	+/-	4.9E-07
Delay rate (us/s)	-2.99763561046E-01	Apriori rate (us/s)	-2.99772650271E-01	Resid rate (us/s)	9.08922E-06	+/-	2.8E-09
Total phase (deg)	-172.1	Apriori accel (us/s/s)	-9.93511171997E-06	Resid phase (deg)	-336.8	+/-	15.3

ph/seg (deg)	RMS 93.3	Theor. 131.0	Amplitude Search (2048X8)	1.366 +/- 0.182	1.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	97.4	228.6	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	7.7	Inc. seg. avg.	0.569	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	13.4	Inc. frq. avg.	1.354	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		

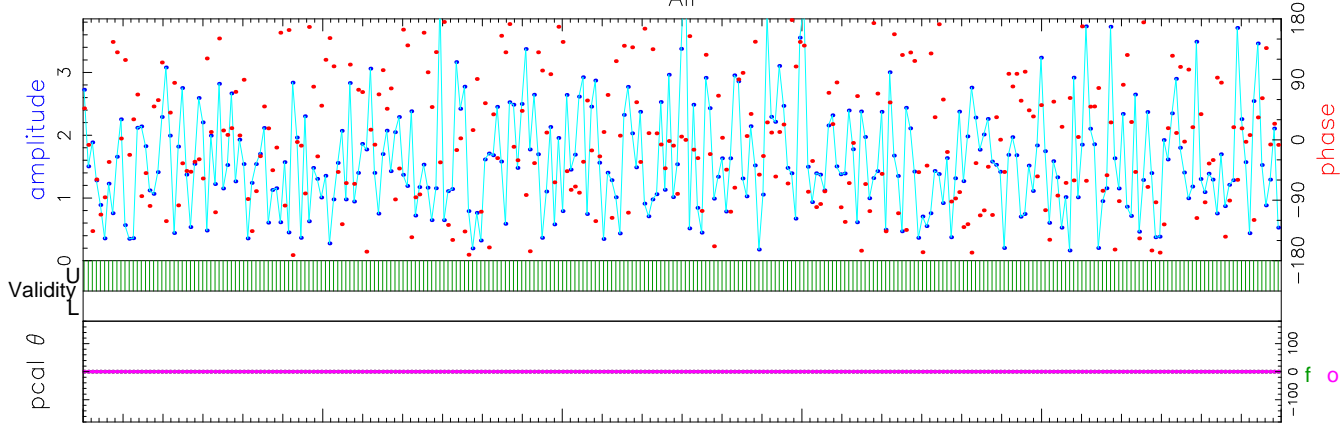
f: az 177.6 el 70.7 pa -1.3 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 1743.448 -986.828 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fo.W.66.1T5H2H

Fringe quality 8



SNR 9.0  
Int time 299.950  
Amp 1.285  
Phase 44.6  
PFD 5.1e-12  
Delays (us)  
SBD -0.093876  
MBD 0.000004  
Fringe rate (Hz)  
0.292729  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

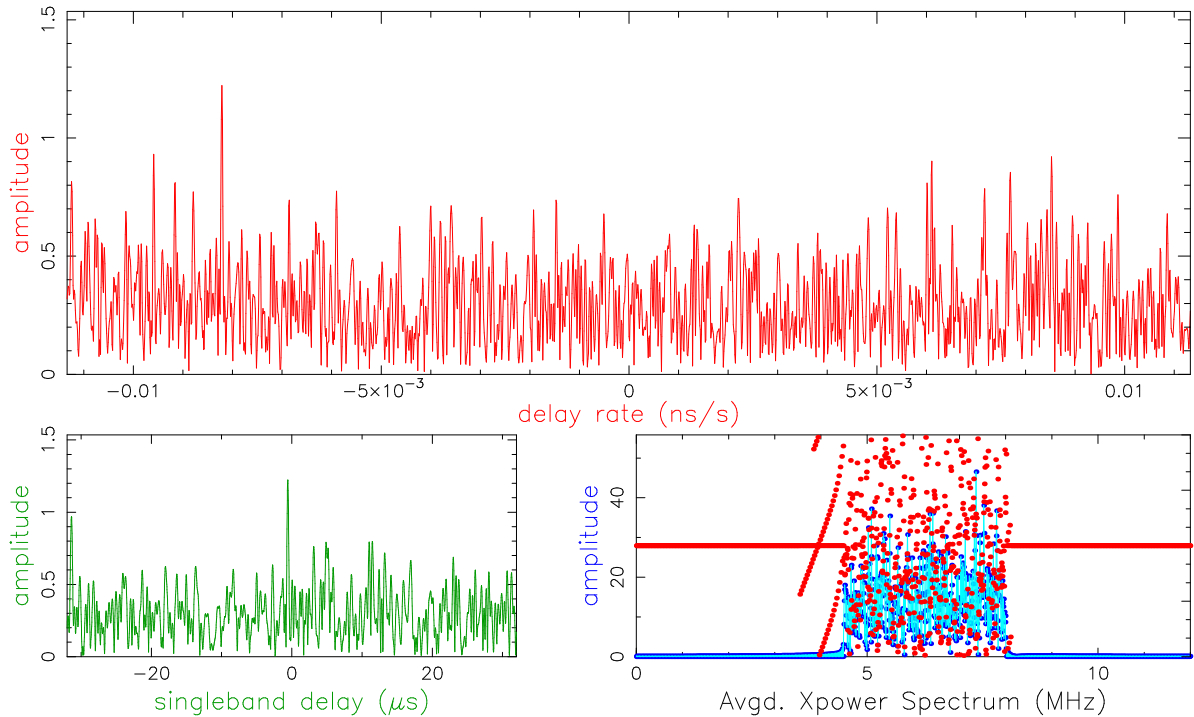


86227.00  
-15.7  
0.4  
1532.5  
U/L 586/0  
f 0  
o 0  
fo 0:0  
fo 0:0  
f 1000  
o 1000  
f W03UR  
o W03UL

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)	1.47723064779E+03	Apriori delay (usec)	1.47732452354E+03	Resid mbdelay (usec)	4.35940E-06	+/-	5.1E-03
Sband delay (usec)	1.47723064754E+03	Apriori clock (usec)	6.5067005E+00	Resid sbdelay (usec)	-9.38760E-02	+/-	5.1E-03
Phase delay (usec)	1.47732452303E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.06982E-07	+/-	4.1E-07
Delay rate (us/s)	-2.99769251978E-01	Apriori rate (us/s)	-2.99772650271E-01	Resid rate (us/s)	3.39829E-06	+/-	2.4E-09
Total phase (deg)	209.3	Apriori accel (us/s/s)	-9.93511171997E-06	Resid phase (deg)	44.6	+/-	12.8

ph/seg (deg)	RMS 92.8	Theor. 109.3	Amplitude Search (2048X8)	1.285 +/- 0.143	1.227	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.8	190.7	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	6.4	Inc. seg. avg.	0.592	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.1	Inc. frq. avg.	1.274	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
f: az 177.6 el 70.7 pa -1.3		o: az 148.4 el 60.7 pa -24.7		u,v (fr/asec) 1743.448 -986.828		ion window (TEC) 0.00 0.00	

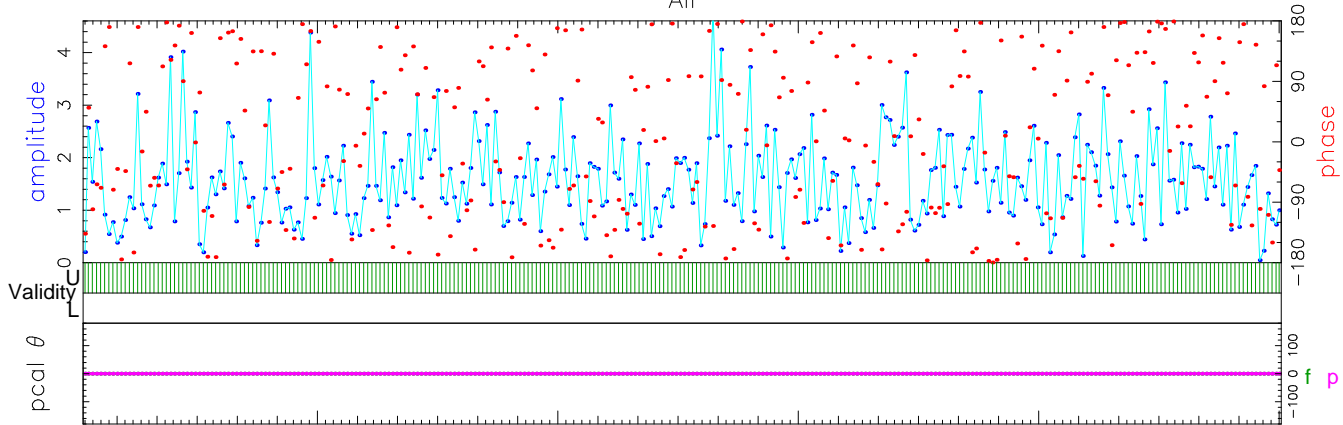


Fringe quality 8

SNR 8.9  
Int time 297.974  
Amp 1.536  
Phase 139.6  
PFD 1.5e-11  
Delays (us)  
SBD -0.573628  
MBD -0.000004  
Fringe rate (Hz)  
-0.707322  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052020  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
173.6  
0.4  
1509.5  
U/L 583/0  
f 0  
p 0  
f:p 0:0  
fp 0:0  
f 1000  
p 1000  
f W03UL  
p W03UL

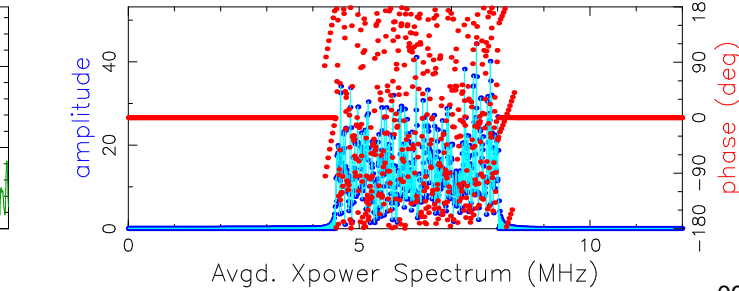
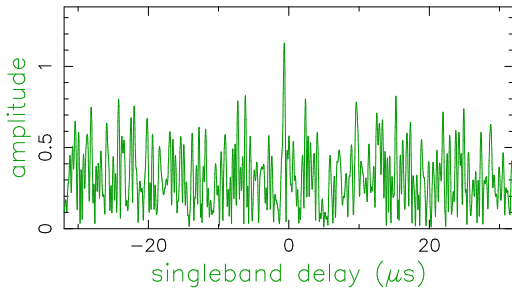
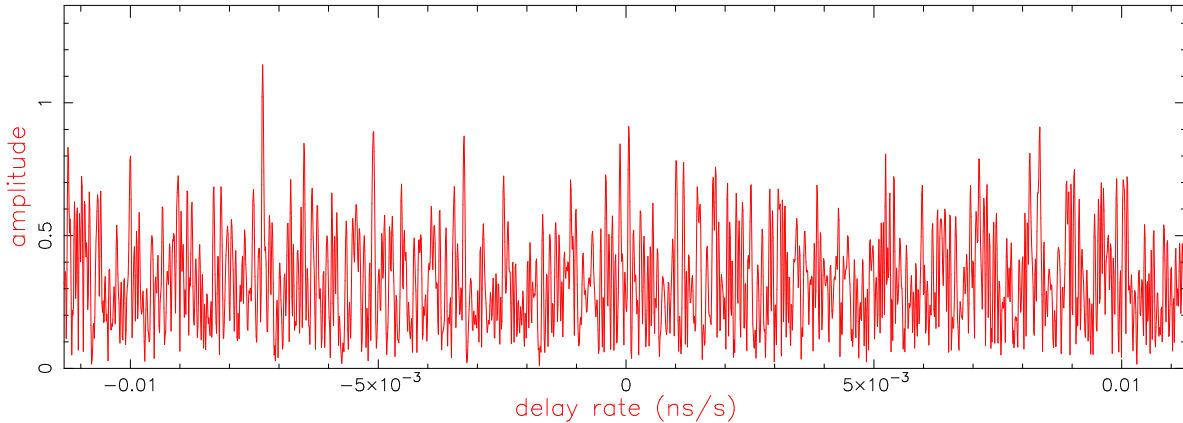
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	5.40972397786E+02	Apriori delay (usec)	5.41546027607E+02	Resid mbdelay (usec)	-4.39004E-06	+/- 5.2E-03
Sband delay (usec)	5.40972399607E+02	Apriori clock (usec)	4.7306995E+00	Resid sbdelay (usec)	-5.73628E-01	+/- 5.2E-03
Phase delay (usec)	5.41546033205E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	5.59863E-06	+/- 4.2E-07
Delay rate (us/s)	-9.14217504071E-02	Apriori rate (us/s)	-9.14135390958E-02	Resid rate (us/s)	-8.21131E-06	+/- 2.4E-09
Total phase (deg)	74.1	Apriori accel (us/s/s)	-4.05135206754E-06	Resid phase (deg)	139.6	+/- 12.9

ph/seg (deg)	RMS 90.7	Theor. 110.6	Amplitude Search (2048X8)	1.536 +/- 0.173	1.208	1.208	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	73.9	193.0	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	6.5	Inc. seg. avg.	0.696	0.696	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.521	1.521	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

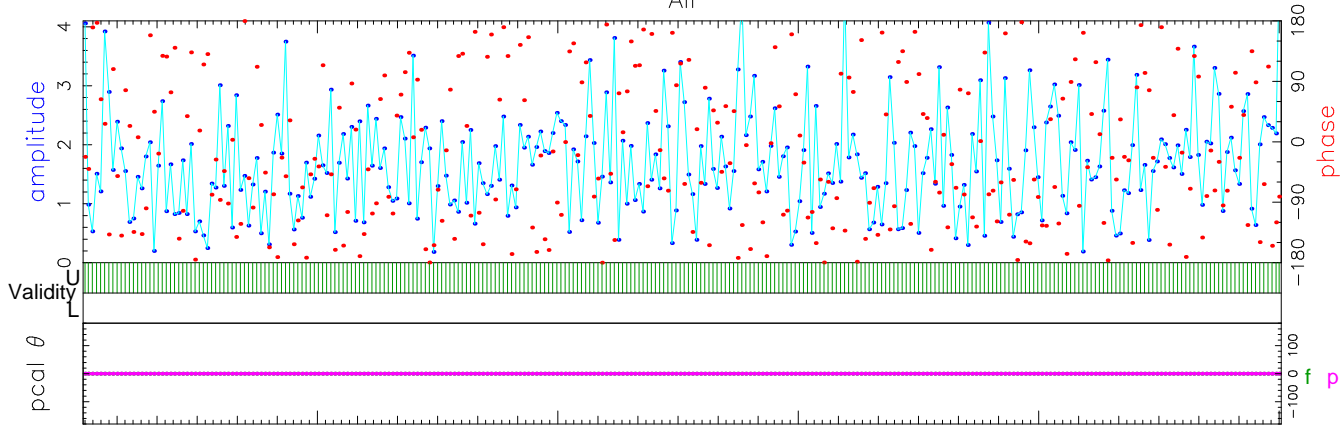
f: az 177.6 el 70.7 pa -1.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 531.029 -533.456 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fp.W.32.1T5H2H

Fringe quality 8



SNR 8.3  
Int time 297.974  
Amp 1.367  
Phase 211.8  
PFD 2.2e-09  
Delays (us)  
SBD -0.653984  
MBD -0.000007  
Fringe rate (Hz)  
-0.630435  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052021  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



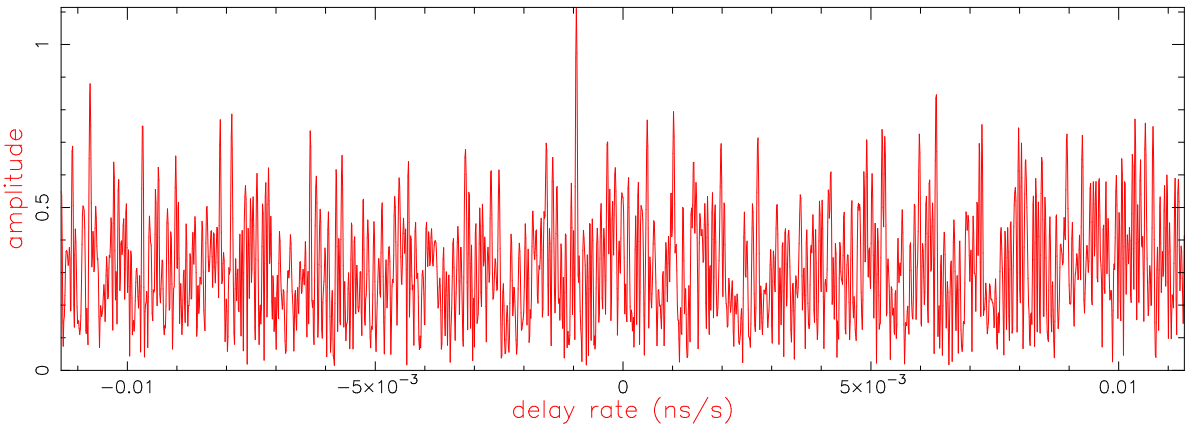
86227.00  
-110.6  
0.4  
1505.6  
U/L 583/0  
f 0  
p 0  
f:p 0:0  
fp 0:0  
f 1000  
p 1000  
f W03UR  
p W03UR

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)	5.40892049292E+02	Apriori delay (usec)	5.41546027607E+02	Resid mbdelay (usec)	-6.82097E-06	+/-	5.6E-03
Sband delay (usec)	5.40892043607E+02	Apriori clock (usec)	4.7306995E+00	Resid sbdelay (usec)	-6.53984E-01	+/-	5.6E-03
Phase delay (usec)	5.41546024041E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.56567E-06	+/-	4.5E-07
Delay rate (us/s)	-9.14208578250E-02	Apriori rate (us/s)	-9.14135390958E-02	Resid rate (us/s)	-7.31873E-06	+/-	2.6E-09
Total phase (deg)	146.3	Apriori accel (us/s/s)	-4.05135206754E-06	Resid phase (deg)	211.8	+/-	13.9

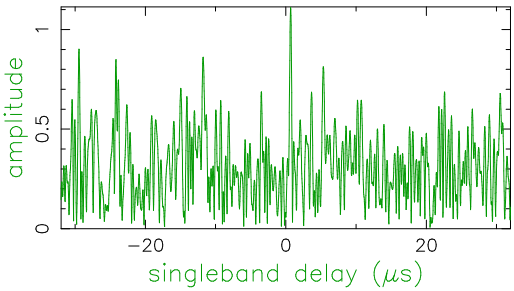
ph/seg (deg)	RMS 96.9	Theor. 118.4	Amplitude Search (2048X8)	1.367 +/- 0.165	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	89.8	206.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.647	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.356	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

f: az 177.6 el 70.7 pa -1.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 531.029 -533.456 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fp.W.46.1T5H2H

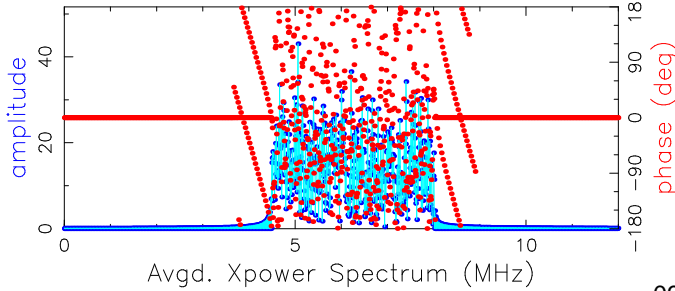


Fringe quality 8

SNR 8.0  
Int time 297.974  
Amp 1.114  
Phase -210.3  
PFD 1.6e-08  
Delays (us)  
SBD 0.684520  
MBD -0.000007  
Fringe rate (Hz)  
-0.081305  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

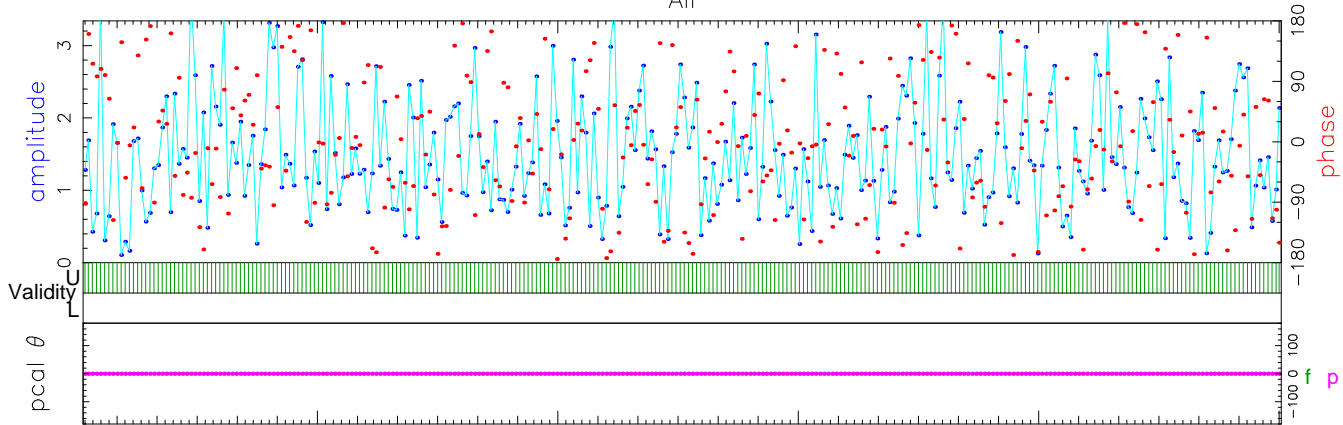


delay rate (ns/s)



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
0.3  
1569.9  
U/L 583/0  
f 0  
p 0  
f:p 0:0  
fp 0:0  
f 1000  
p 1000  
f W03UL  
p W03UR

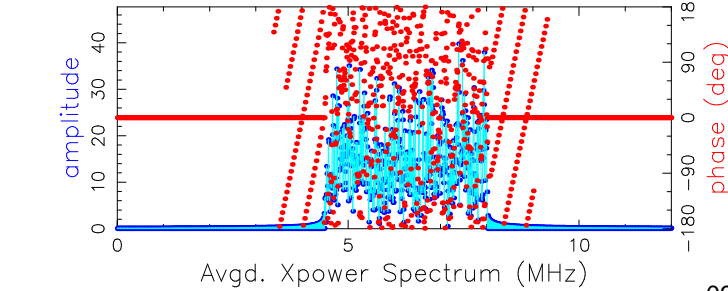
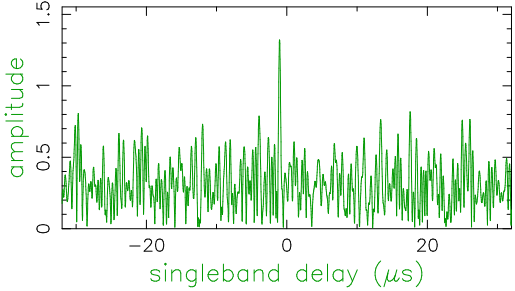
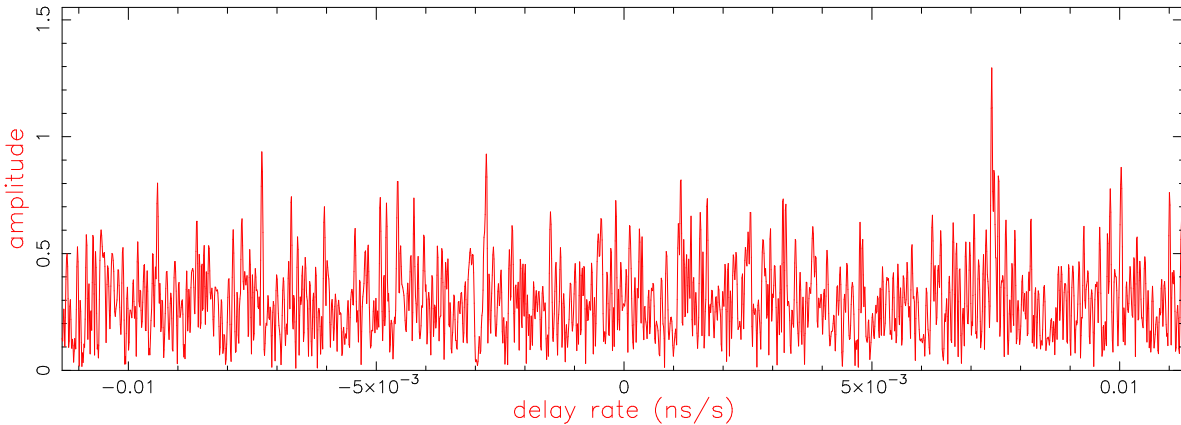
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	5.42230550730E+02	Apriori delay (usec)	5.41546027607E+02	Resid mbdelay (usec)	-7.24430E-06	+/- 5.7E-03
Sband delay (usec)	5.42230547607E+02	Apriori clock (usec)	4.7306995E+00	Resid sbdelay (usec)	6.84520E-01	+/- 5.7E-03
Phase delay (usec)	5.41546027257E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.50096E-07	+/- 4.6E-07
Delay rate (us/s)	-9.14144829676E-02	Apriori rate (us/s)	-9.14135390958E-02	Resid rate (us/s)	-9.43872E-07	+/- 2.7E-09
Total phase (deg)	-275.9	Apriori accel (us/s/s)	-4.05135206754E-06	Resid phase (deg)	-210.3	+/- 14.3

ph/seg (deg)	RMS 94.2	Theor. 122.0	Amplitude Search (2048X8)	1.114 +/- 0.139	1.093	1.093	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.1	212.9	Interp.	0.000	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	7.1	Inc. seg. avg.	0.464	0.464	0.464	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.105	1.105	1.105	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

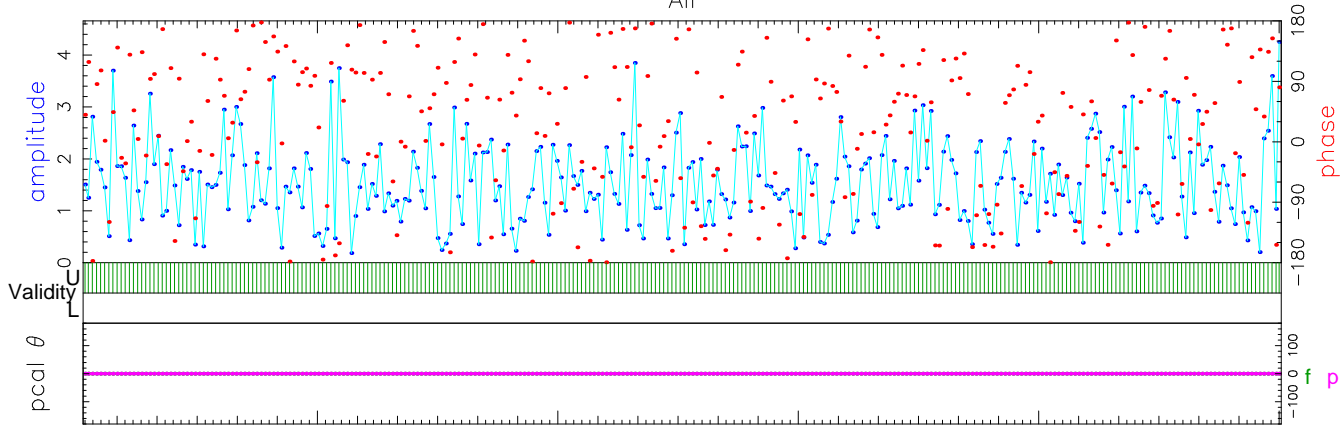
f: az 177.6 el 70.7 pa -1.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 531.029 -533.456 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/fp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/fp.W.76.1T5H2H

Fringe quality 8



SNR 9.4  
Int time 297.974  
Amp 1.553  
Phase 92.8  
PFD 1.6e-13  
Delays (us)  
SBD -1.000000  
MBD 0.000004  
Fringe rate (Hz)  
0.638668  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
92.8  
0.5  
1487.3  
U/L 583/0  
f 0  
p 0  
f:p 0:0  
fp 0:0  
f 1000  
p 1000  
f W03UR  
p W03UL

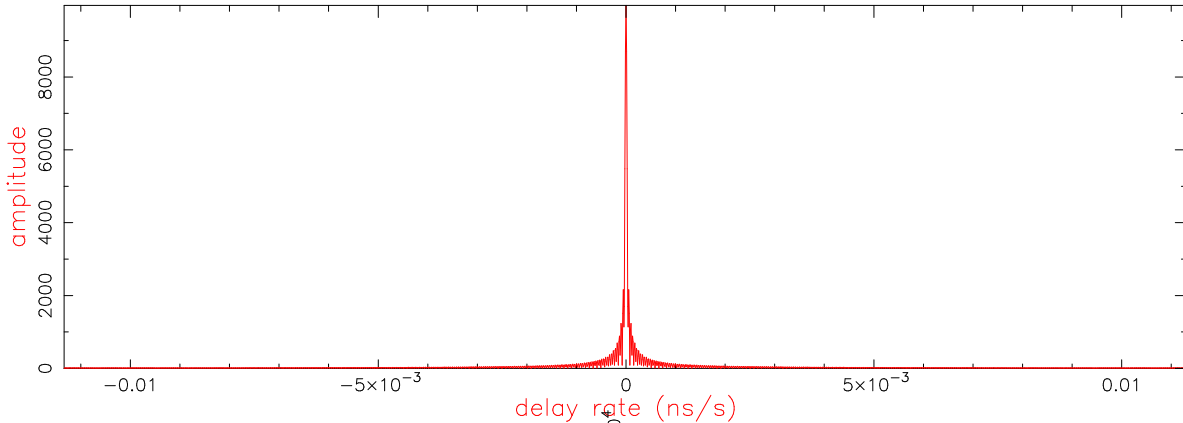
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	5.40546032016E+02	Apriori delay (usec)	5.41546027607E+02	Resid mbdelay (usec)	4.40901E-06	+/-	4.9E-03
Sband delay (usec)	5.40546027607E+02	Apriori clock (usec)	4.7306995E+00	Resid sbdelay (usec)	-1.00000E+00	+/-	4.9E-03
Phase delay (usec)	5.41546030599E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.99225E-06	+/-	4.0E-07
Delay rate (us/s)	-9.14061247900E-02	Apriori rate (us/s)	-9.14135390958E-02	Resid rate (us/s)	7.41431E-06	+/-	2.3E-09
Total phase (deg)	27.3	Apriori accel (us/s/s)	-4.05135206754E-06	Resid phase (deg)	92.8	+/-	12.3

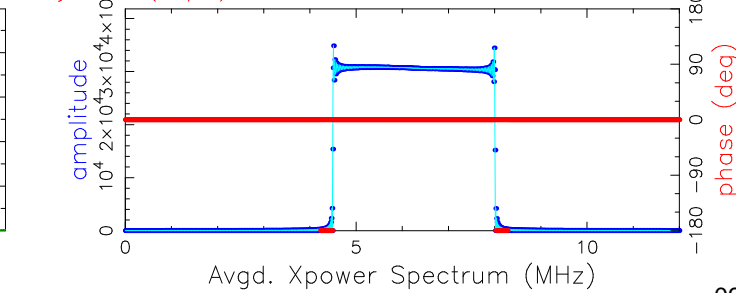
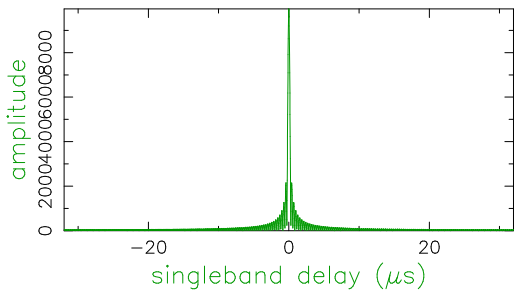
ph/seg (deg)	RMS 89.6	Theor. 104.7	Amplitude Search (2048X8)	1.553 +/- 0.166	1.271	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.5	182.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.693	0.693	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.545	1.545	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
f: az 177.6 el 70.7 pa -1.3		p: az 167.6 el 66.6 pa -9.4		u,v (fr/asec) 531.029 -533.456		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0021/fp..1T5H2H		Output file: /Exps/c211d/v1/LINES1/1234/No0021/fp.W.80.1T5H2H		ion window (TEC) 0.00 0.00	

simultaneous interpolator

Fringe quality 5

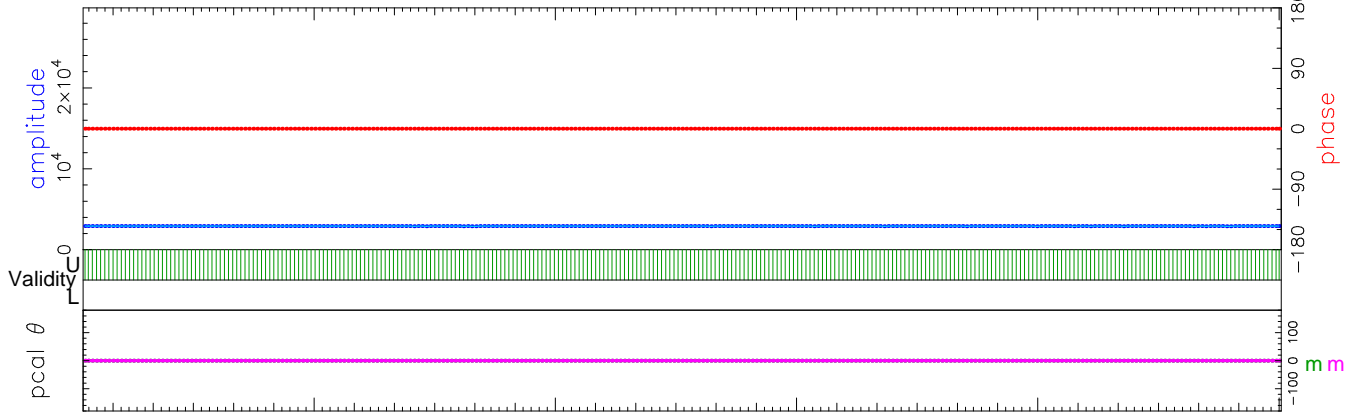


SNR 71907.4  
Int time 296.980  
Amp 9966.826  
Phase -0.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD -0.000006  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052022  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



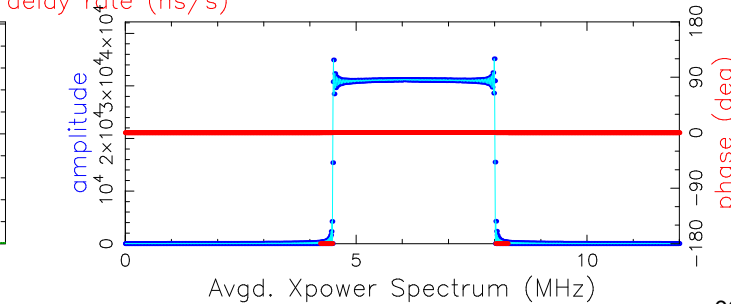
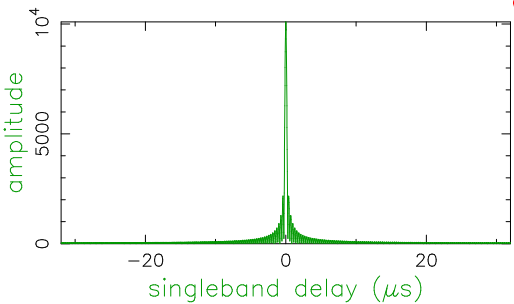
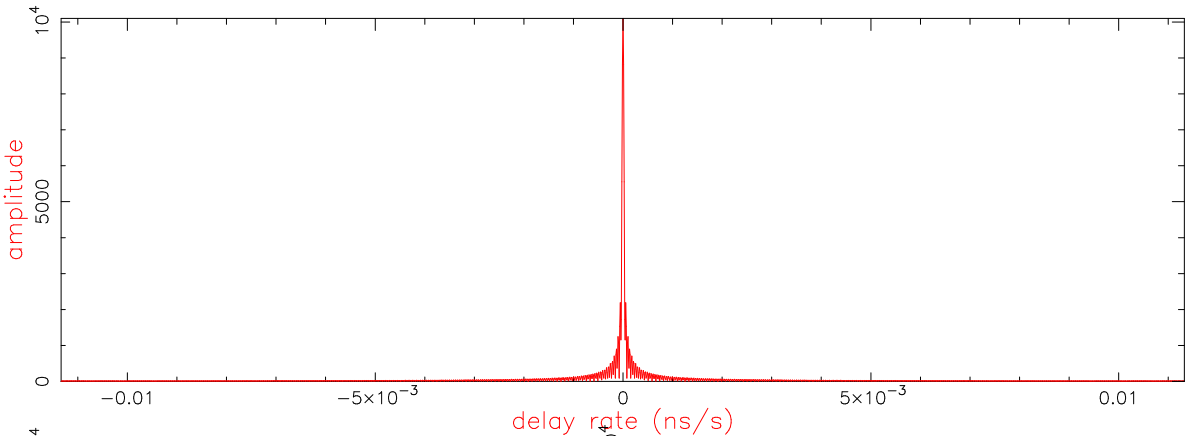
86227.00	0.2	2920.0	1537.0	U/L 581/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UL	m W03UL

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

Group delay (usec)(sbd)	5.53061106150E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.06668E-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)	6.54982184553E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.54982E-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

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9966.826 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9966.827	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.	2919.969	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9966.826	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

m: az 91.3 el 39.1 pa -73.7 m: az 91.3 el 39.1 pa -73.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mm..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mm.W.54.1T5H2H

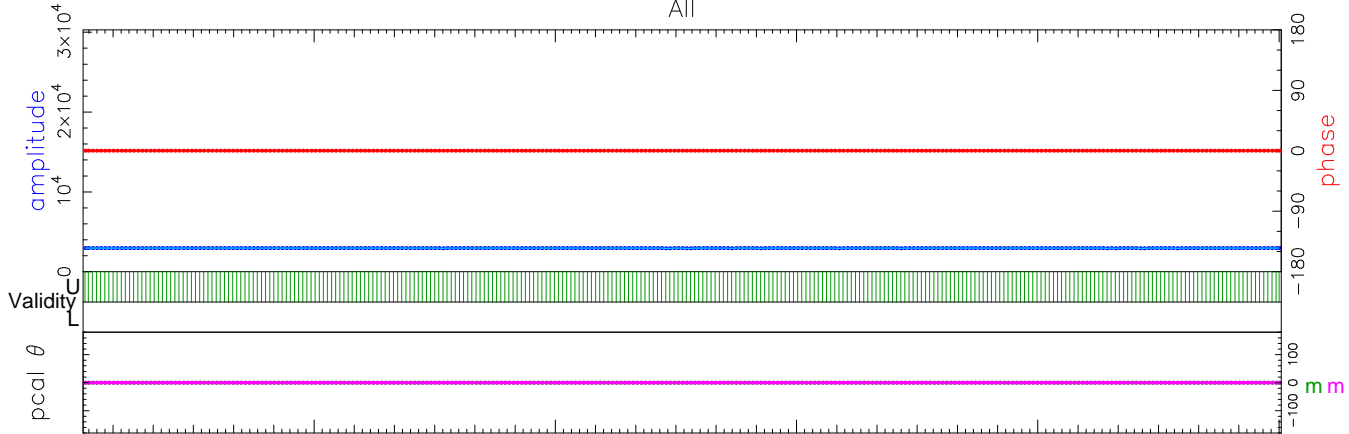


Fringe quality 5

SNR 72887.0  
Int time 296.980  
Amp 10102.606  
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 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00		Freq (MHz)
0.2		Phase
2959.7		Ampl.
1537.0		Sbd box
U/L 581/0		APs used
m 0		PC freqs
m 0		PC freqs
m:m 0:0		PC phase
m:m 0:0		Manl PC
m 1000		PC amp
m 1000		
m W03UR		Chan ids
m W03UR		Chan ids

Group delay (usec)(sbd)	4.35432057244E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24297E-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)	7.81978952005E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.81979E-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)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

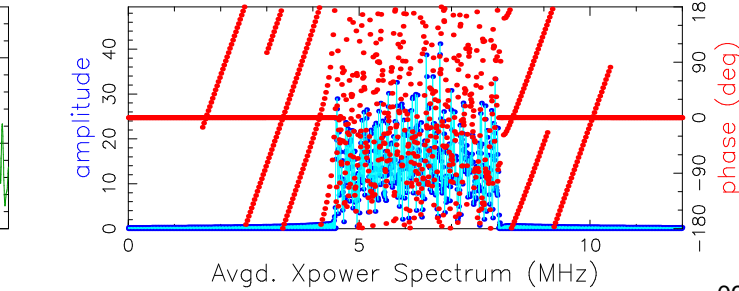
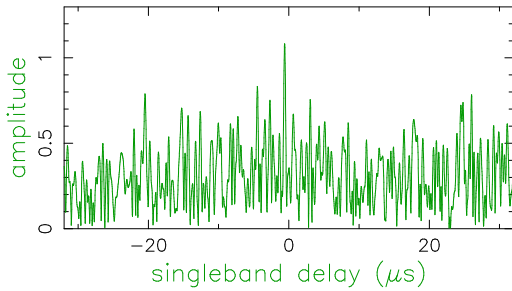
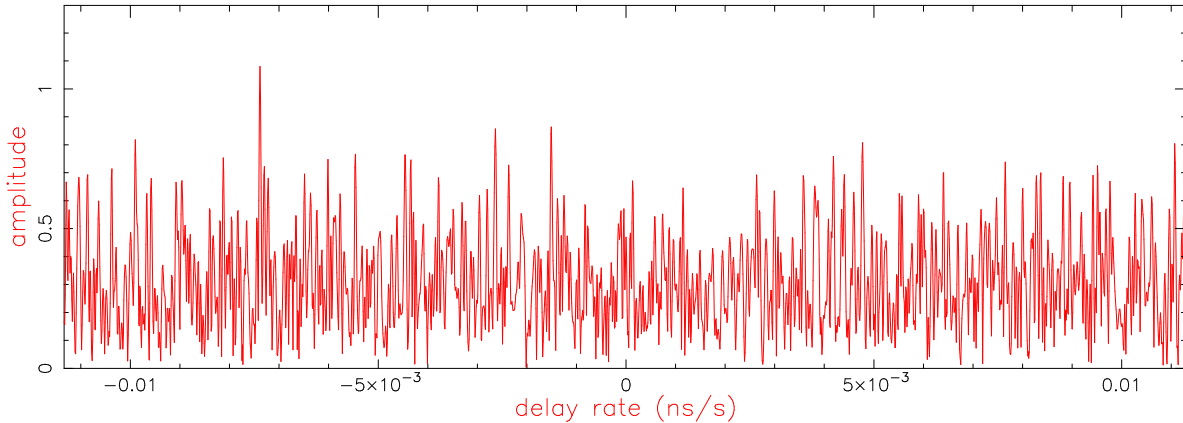
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10102.605 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10102.605	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2959.748	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	10102.605	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





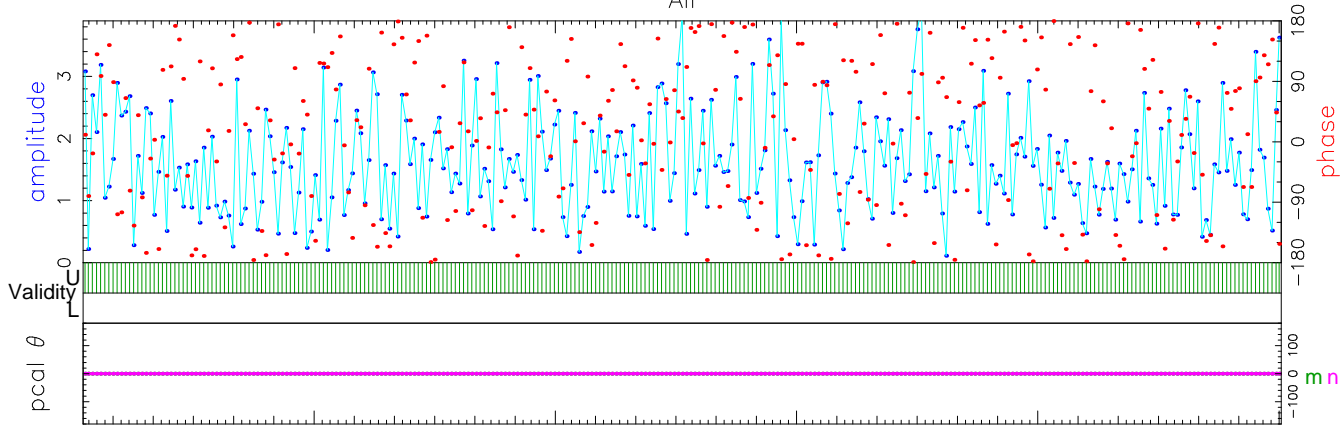


Fringe quality 8



SNR 7.8  
Int time 296.980  
Amp 1.299  
Phase 85.0  
PFD 8.3e-08  
Delays (us)  
SBD -0.596676  
MBD -0.000007  
Fringe rate (Hz)  
-0.635700  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
117.3  
0.4  
1508.4  
U/L 581/0  
m 0  
n 0  
m:n 0:0  
m:n 0:0  
m 1000  
n 1000  
m W03UL  
n W03UL

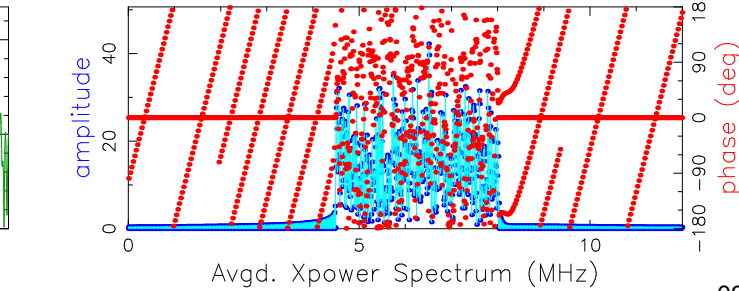
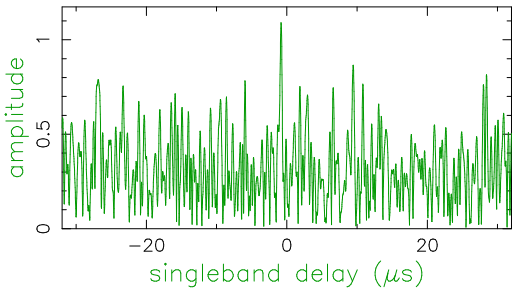
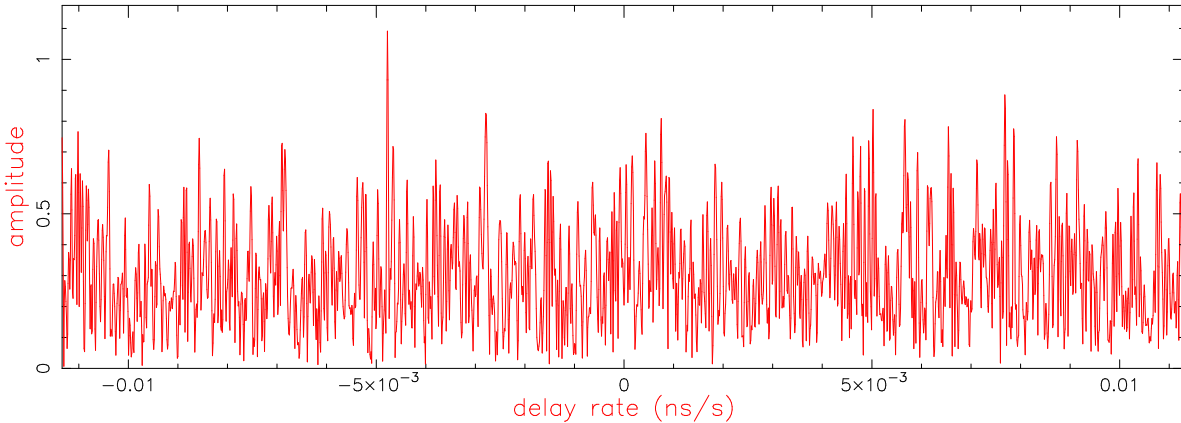
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.40932040226E+03	Apriori delay (usec)	-4.40872372607E+03	Resid mbdelay (usec)	-6.93212E-06	+/- 5.9E-03
Sband delay (usec)	-4.40932040207E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-5.96676E-01	+/- 5.9E-03
Phase delay (usec)	-4.40872372229E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.78205E-06	+/- 4.7E-07
Delay rate (us/s)	1.36400805237E+00	Apriori rate (us/s)	1.36401543223E+00	Resid rate (us/s)	-7.37985E-06	+/- 2.8E-09
Total phase (deg)	170.0	Apriori accel (us/s/s)	1.62546772023E-05	Resid phase (deg)	85.0	+/- 14.7

ph/seg (deg)	RMS 91.7	Theor. 125.0	Amplitude 1.299 +/- 0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.1	218.1	Search (2048X8) 1.051	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.8	Inc. seg. avg. 0.569	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.284	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

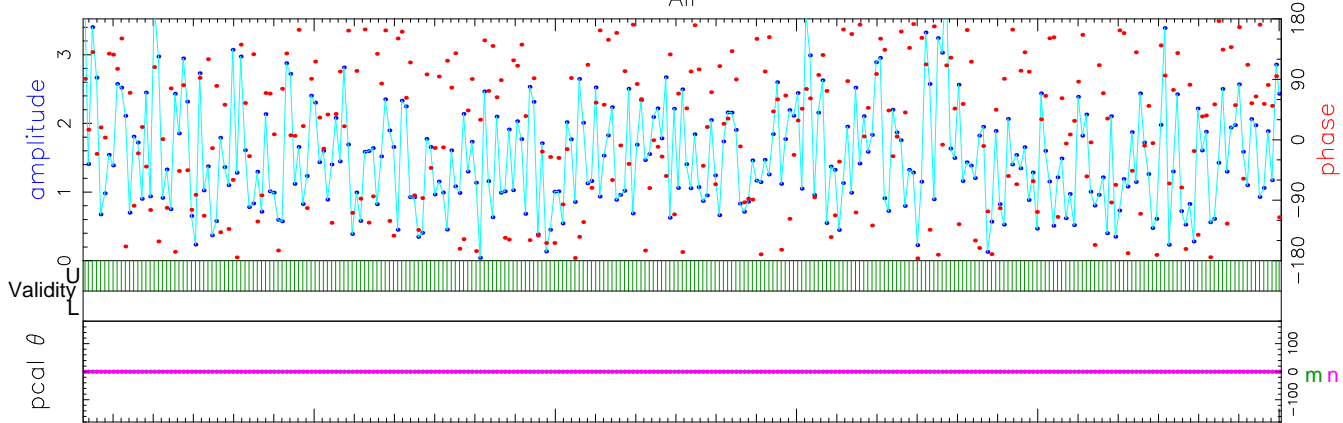
m: az 91.3 el 39.1 pa -73.7 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -7950.100 -2575.448 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mn.W.63.1T5H2H

Fringe quality 8



SNR 7.9  
Int time 296.980  
Amp 1.175  
Phase 335.8  
PFD 5.6e-08  
Delays (us)  
SBD -0.812024  
MBD -0.000004  
Fringe rate (Hz)  
-0.410368  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
103.4  
0.3  
1498.0  
U/L 581/0  
m 0  
n 0  
m:n 0:0  
m:n 0:0  
m 1000  
n 1000  
m W03UR  
n W03UR

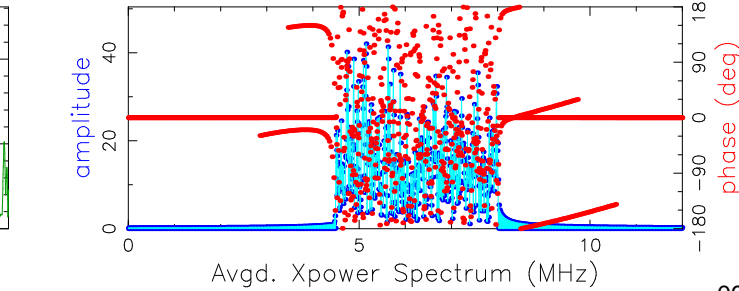
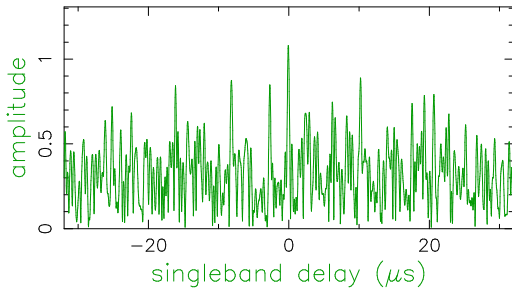
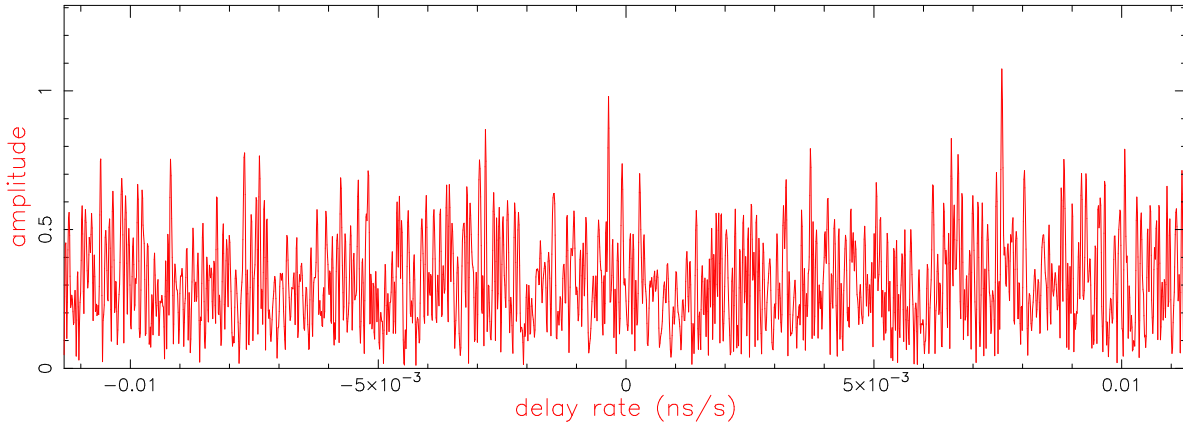
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.40953574988E+03	Apriori delay (usec)	-4.40872372607E+03	Resid mbdelay (usec)	-4.37155E-06	+/- 5.8E-03
Sband delay (usec)	-4.40953575007E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-8.12024E-01	+/- 5.8E-03
Phase delay (usec)	-4.40872372274E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.33424E-06	+/- 4.7E-07
Delay rate (us/s)	1.36401066826E+00	Apriori rate (us/s)	1.36401543223E+00	Resid rate (us/s)	-4.76397E-06	+/- 2.7E-09
Total phase (deg)	60.9	Apriori accel (us/s/s)	1.62546772023E-05	Resid phase (deg)	335.8	+/- 14.6

ph/seg (deg)	RMS 93.5	Theor. 124.2	Amplitude Search (2048X8)	1.175 +/- 0.149	1.068	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.0	216.7	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	7.3	Inc. seg. avg.	0.489	0.489	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.165	1.165	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

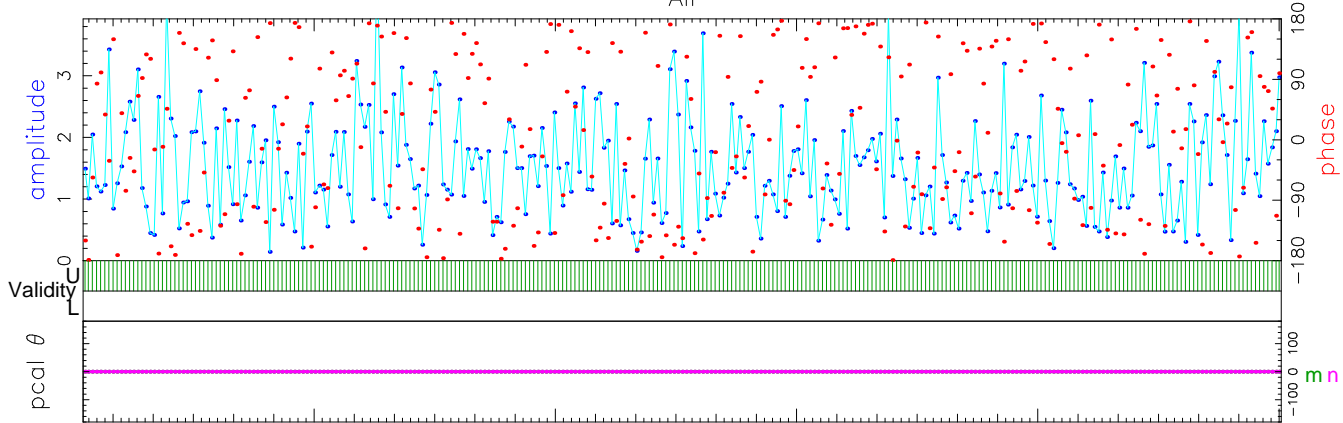
m: az 91.3 el 39.1 pa -73.7 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -7950.100 -2575.448 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mn.W.74.1T5H2H

Fringe quality 8



SNR 7.8  
Int time 296.980  
Amp 1.308  
Phase 284.4  
PFD 1.0e-07  
Delays (us)  
SBD -0.072605  
MBD 0.000006  
Fringe rate (Hz)  
0.652735  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
170.2  
0.4  
1533.5  
U/L 581/0  
m 0  
n 0  
m:n 0:0  
m:n 0:0  
m 1000  
n 1000  
m W03UL  
n W03UR

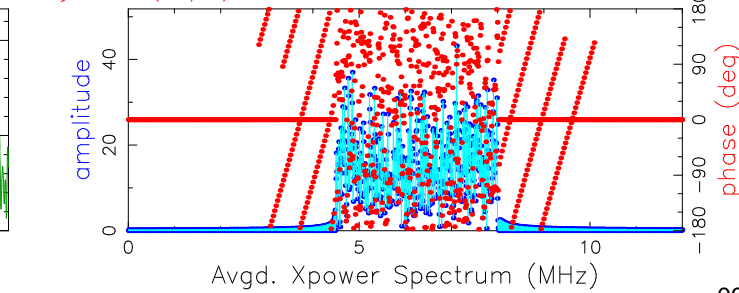
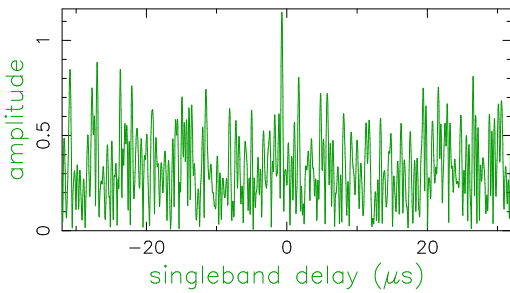
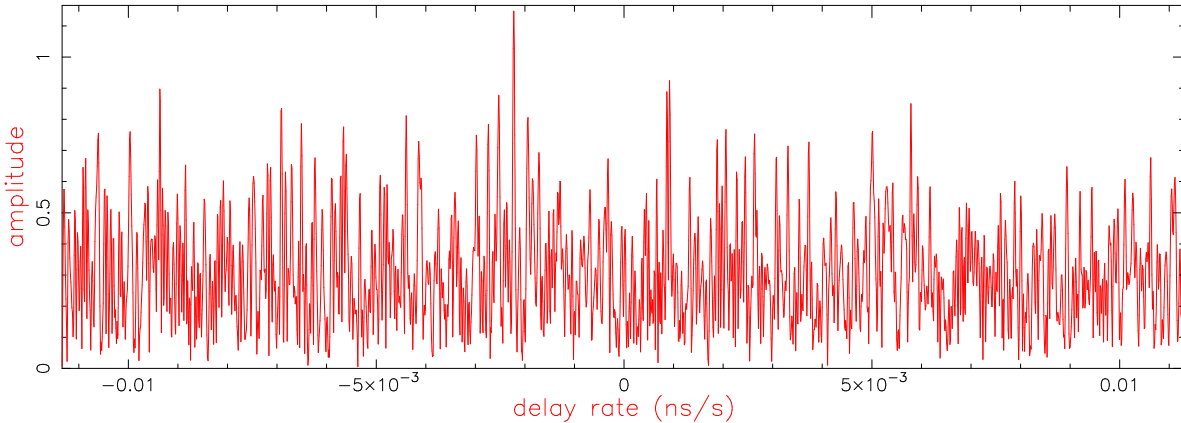
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-4.40879633045E+03	Apriori delay (usec)	-4.40872372607E+03	Resid mbdelay (usec)	6.28546E-06	+/-	5.9E-03
Sband delay (usec)	-4.40879633141E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-7.26053E-02	+/-	5.9E-03
Phase delay (usec)	-4.40872372058E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.48914E-06	+/-	4.7E-07
Delay rate (us/s)	1.36402300983E+00	Apriori rate (us/s)	1.36401543223E+00	Resid rate (us/s)	7.57761E-06	+/-	2.8E-09
Total phase (deg)	9.4	Apriori accel (us/s/s)	1.62546772023E-05	Resid phase (deg)	284.4	+/-	14.7

ph/seg (deg)	RMS 92.6	Theor. 125.3	Amplitude Search (2048X8)	1.308 +/- 0.168	1.058	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.5	218.8	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	7.3	Inc. seg. avg.	0.552	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.8	Inc. frq. avg.	1.295	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

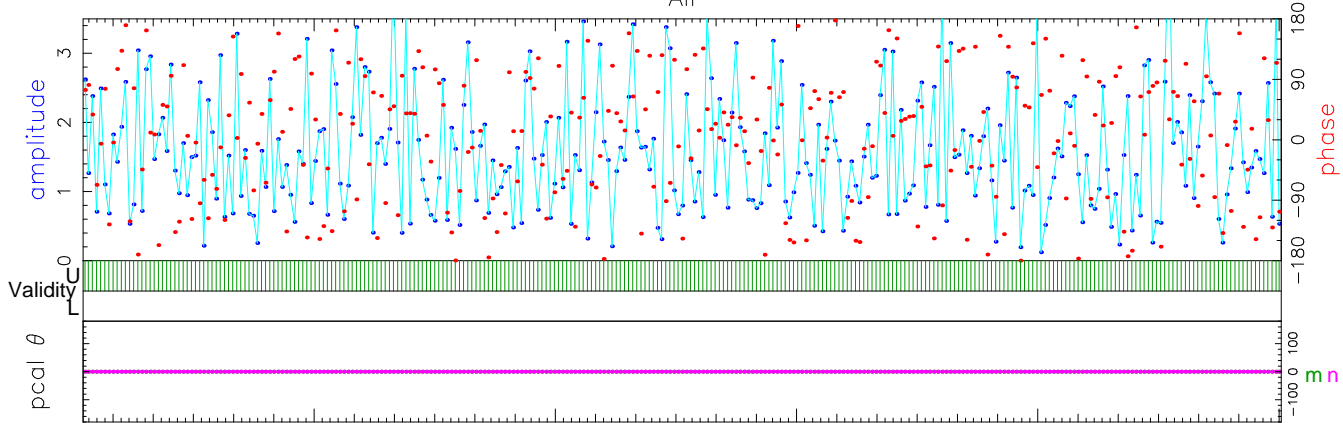
m: az 91.3 el 39.1 pa -73.7 n: az 201.7 el 57.9 pa 16.3 u,v (fr/asec) -7950.100 -2575.448 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mn..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mn.W.78.1T5H2H

Fringe quality 8



SNR 8.3  
Int time 296.980  
Amp 1.166  
Phase 167.7  
PFD 2.0e-09  
Delays (us)  
SBD -0.705503  
MBD -0.000006  
Fringe rate (Hz)  
-0.191670  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



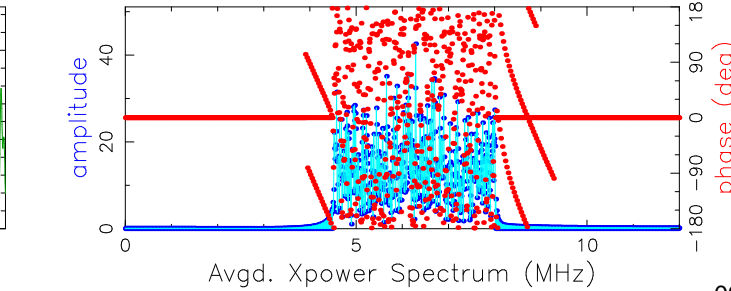
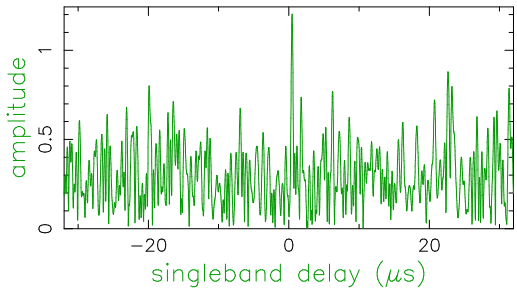
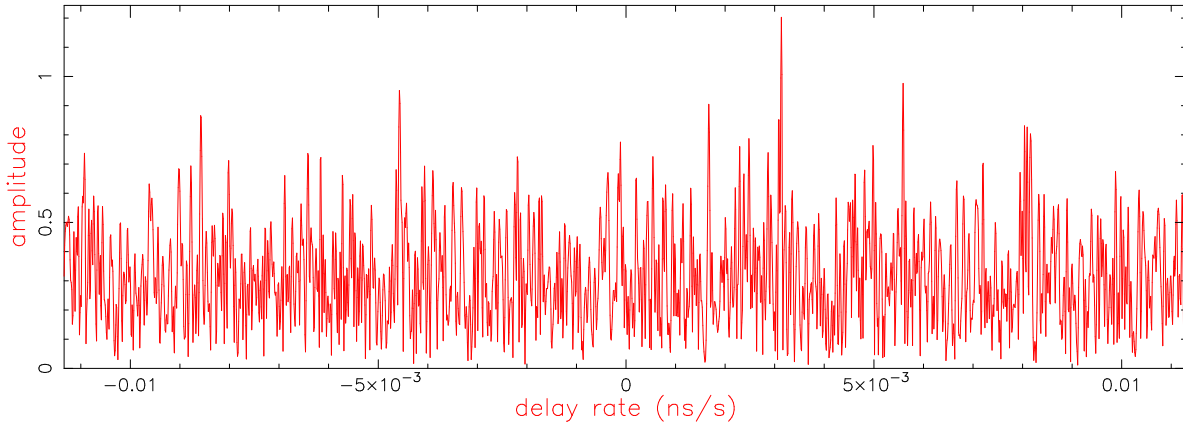
86227.00  
31.5  
0.3  
1503.1  
U/L 581/0  
m 0  
n 0  
m:n 0:0  
m:n 0:0  
m 1000  
n 1000  
m W03UR  
n W03UL

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

Group delay (usec)(sbd)	-4.40942923007E+03	Apriori delay (usec)	-4.40872372607E+03	Resid mbdelay (usec)	-5.71979E-06	+/- 5.5E-03
Sband delay (usec)	-4.40942922874E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-7.05503E-01	+/- 5.5E-03
Phase delay (usec)	-4.40872372506E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.01436E-06	+/- 4.5E-07
Delay rate (us/s)	1.36401320713E+00	Apriori rate (us/s)	1.36401543223E+00	Resid rate (us/s)	-2.22510E-06	+/- 2.6E-09
Total phase (deg)	252.7	Apriori accel (us/s/s)	1.62546772023E-05	Resid phase (deg)	167.7	+/- 13.8

ph/seg (deg)	RMS 94.5	Theor. 118.0	Amplitude Search (2048X8)	1.166 +/- 0.141	1.141	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.1	206.0	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.	0.516	Sample rate(MSamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.158	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
m: az 91.3 el 39.1 pa -73.7			n: az 201.7 el 57.9 pa 16.3				ion window (TEC) 0.00 0.00

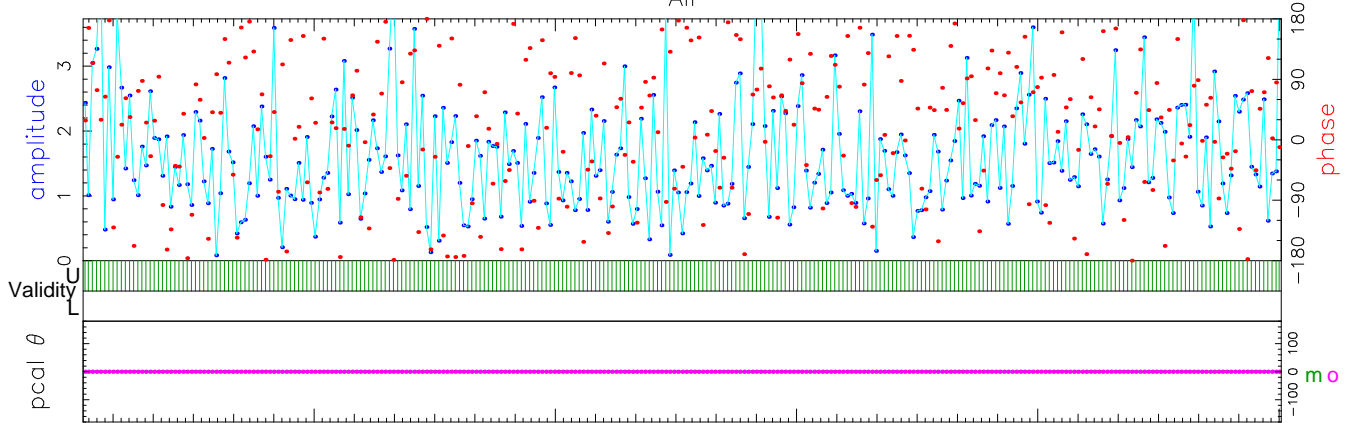
Fringe quality 8



SNR 8.7  
Int time 296.956  
Amp 1.244  
Phase -173.6  
PFD 6.2e-11  
Delays (us)  
SBD 0.467327  
MBD 0.000007  
Fringe rate (Hz)  
0.269895  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052023  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

All



Validity  
pcal θ  
86227.00  
63.0  
0.4  
1559.4  
U/L 581/0  
m 0  
o 0  
m:o 0:0  
m:o 0:0  
m 1000  
o 1000  
m W03UL  
o W03UL

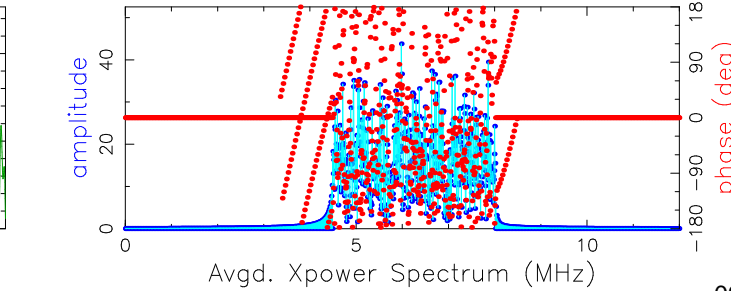
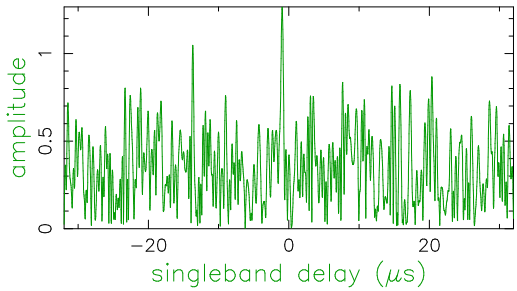
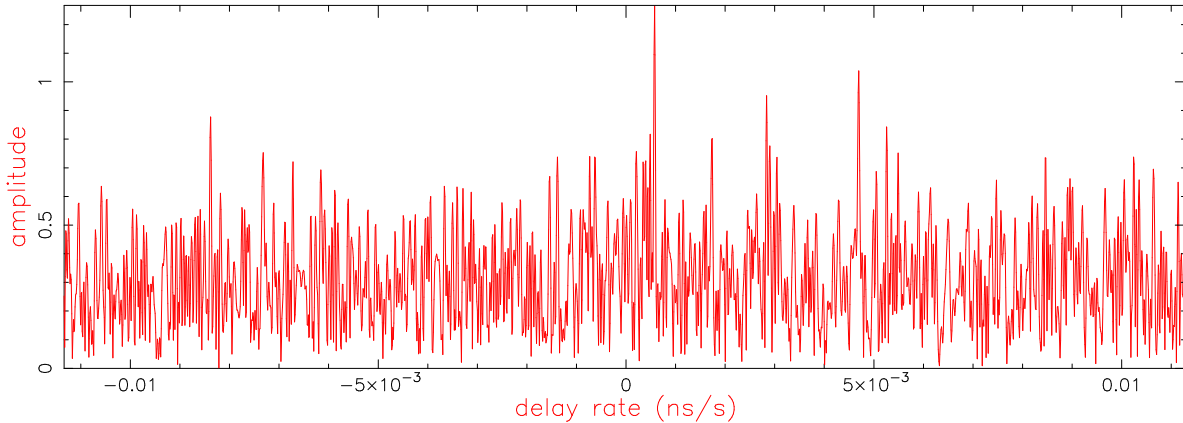
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.02157158133E+03	Apriori delay (usec)	-5.02203891261E+03	Resid mbdelay (usec)	6.66761E-06	+/-	5.3E-03
Sband delay (usec)	-5.02157158595E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	4.67327E-01	+/-	5.3E-03
Phase delay (usec)	-5.02203891058E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.03160E-06	+/-	4.3E-07
Delay rate (us/s)	8.20138416100E-01	Apriori rate (us/s)	8.20135282892E-01	Resid rate (us/s)	3.13321E-06	+/-	2.5E-09
Total phase (deg)	-149.3	Apriori accel (us/s/s)	2.08779184616E-05	Resid phase (deg)	-173.6	+/-	13.2

ph/seg (deg)	92.2	Theor.	112.4	Amplitude	1.244 +/- 0.143	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.3	Search (2048X8)	1.197	Search	1.197	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.	0.569	Inc. seg. avg.	0.569	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.233	Inc. frq. avg.	1.233	Sample rate(MSamp/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	

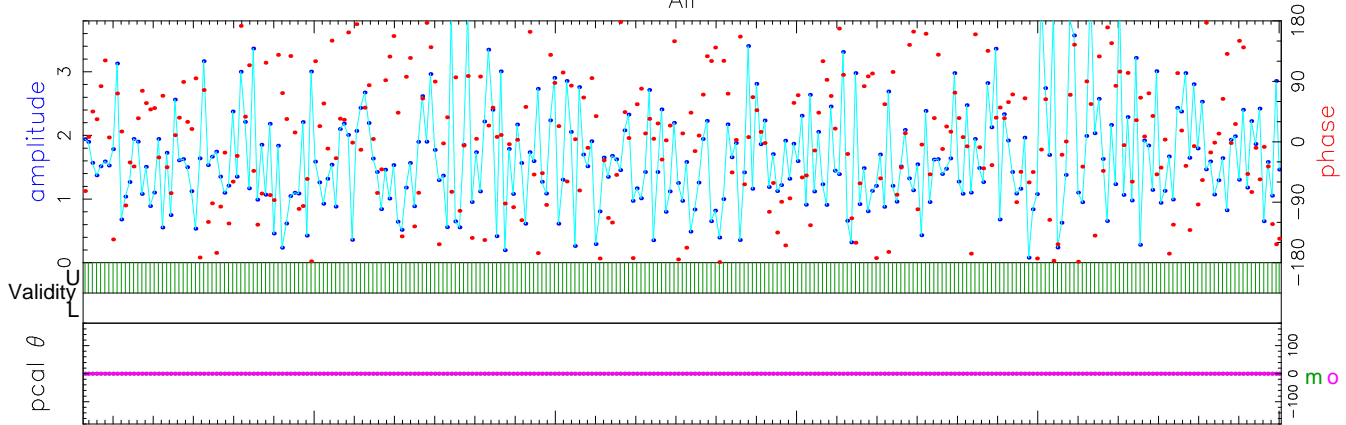
m: az 91.3 el 39.1 pa -73.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) -4769.945 -1975.517 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mo.W.58.1T5H2H

Fringe quality 8



SNR 9.1  
Int time 296.956  
Amp 1.267  
Phase 254.9  
PFD 1.3e-12  
Delays (us)  
SBD -0.949680  
MBD 0.000007  
Fringe rate (Hz)  
0.049909  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052024  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
30.6  
0.4  
1491.4  
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

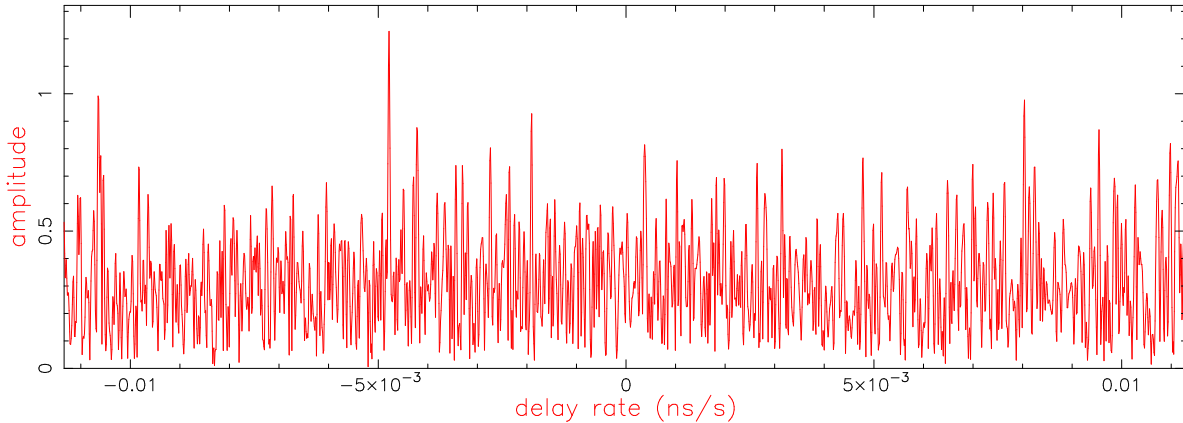
Group delay (usec)(sbd)	-5.02298859678E+03	Apriori delay (usec)	-5.02203891261E+03	Resid mbdelay (usec)	6.76595E-06	+/-	5.0E-03
Sband delay (usec)	-5.02298859261E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-9.49680E-01	+/-	5.0E-03
Phase delay (usec)	-5.02203891163E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.87698E-07	+/-	4.0E-07
Delay rate (us/s)	8.20135862288E-01	Apriori rate (us/s)	8.20135282892E-01	Resid rate (us/s)	5.79395E-07	+/-	2.4E-09
Total phase (deg)	279.3	Apriori accel (us/s/s)	2.08779184616E-05	Resid phase (deg)	254.9	+/-	12.6

ph/seg (deg)	RMS 90.4	Theor. 107.1	Amplitude Search (2048X8)	1.267 +/- 0.139	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.2	186.9	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	6.3	Inc. seg. avg.	0.596	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.258	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

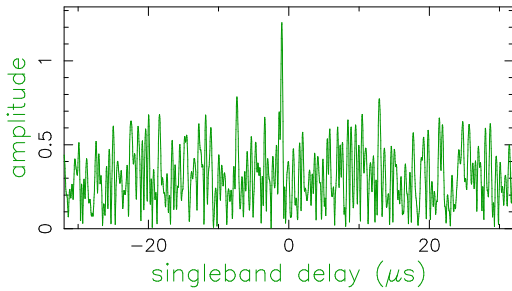
m: az 91.3 el 39.1 pa -73.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) -4769.945 -1975.517 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mo.W.72.1T5H2H



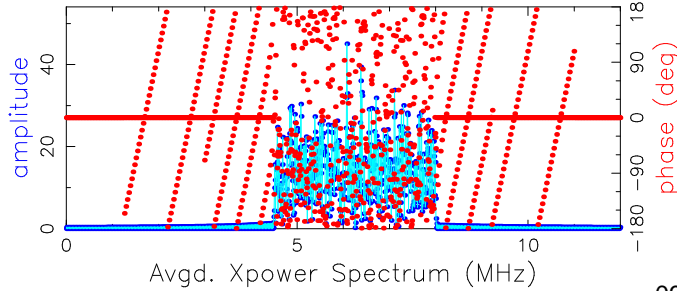
Fringe quality 8



SNR 8.9  
Int time 296.956  
Amp 1.322  
Phase 228.6  
PFD 1.5e-11  
Delays (us)  
SBD -1.000000  
MBD -0.000004  
Fringe rate (Hz)  
-0.411309  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

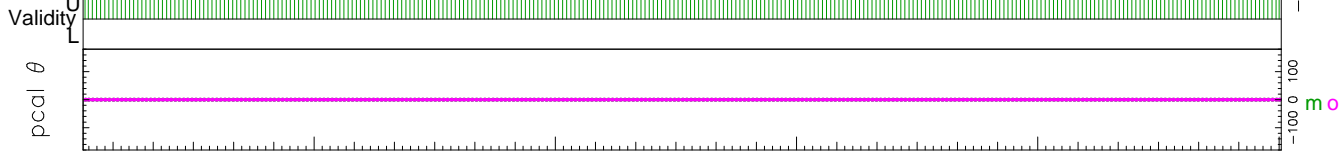
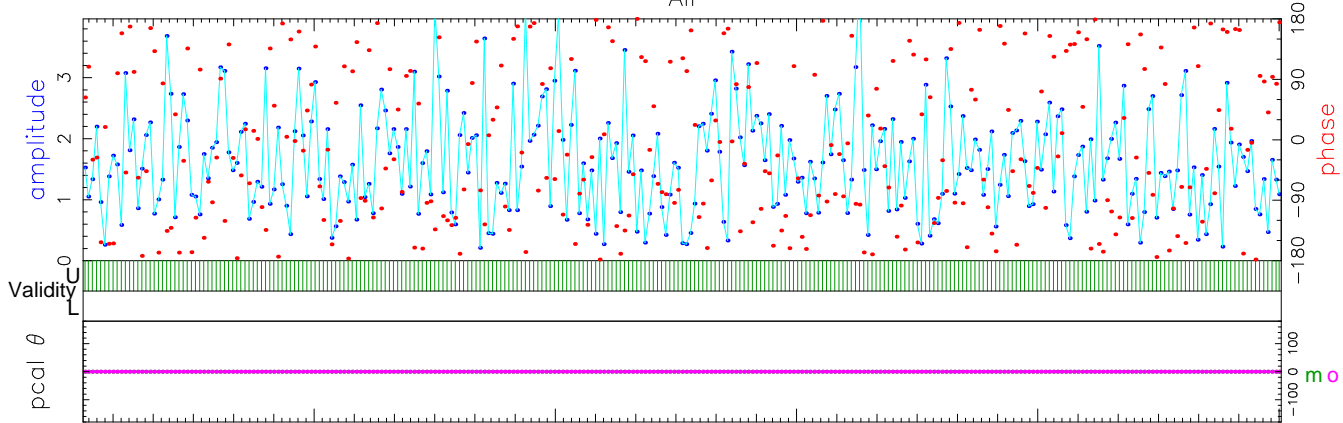


delay rate (ns/s)



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-131.4  
0.4  
1489.0  
U/L 581/0  
m 0  
o 0  
m:o 0:0  
m:o 0:0  
m 1000  
o 1000  
m W03UL  
o W03UR

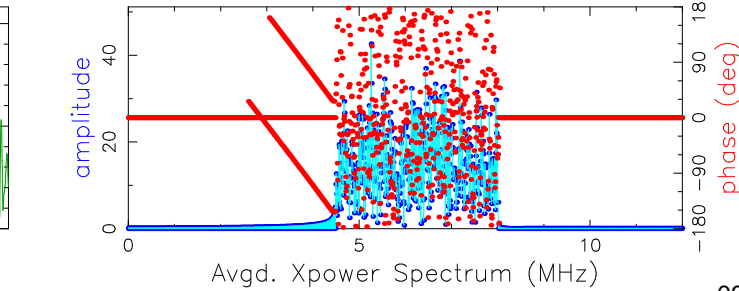
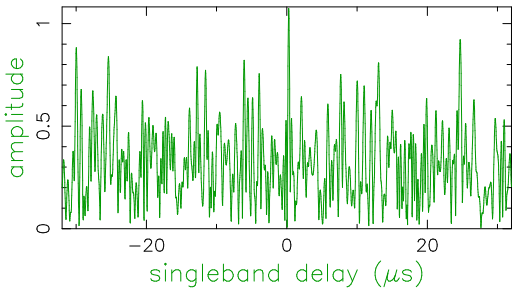
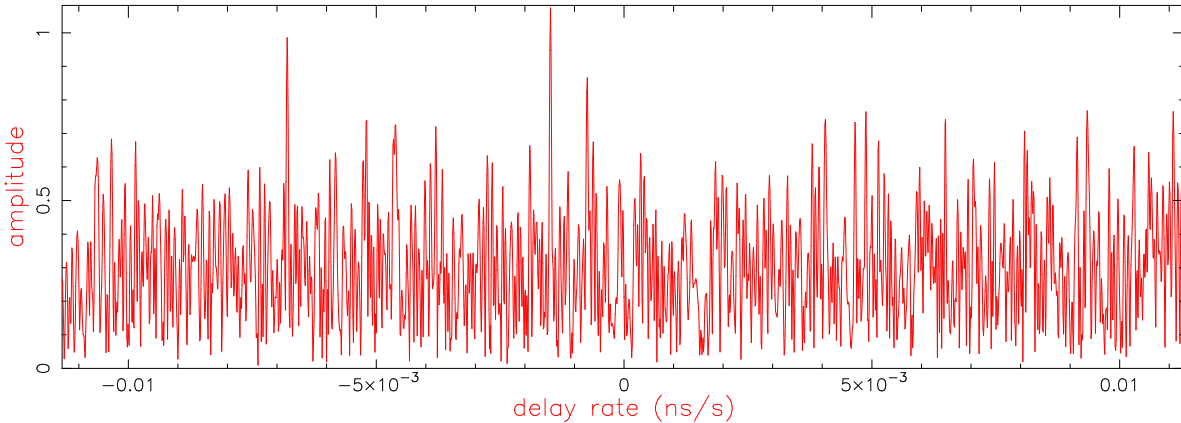
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.02303891697E+03	Apriori delay (usec)	-5.02203891261E+03	Resid mbdelay (usec)	-4.35761E-06	+/-	5.2E-03
Sband delay (usec)	-5.02303891261E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-1.00000E+00	+/-	5.2E-03
Phase delay (usec)	-5.02203891685E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.23811E-06	+/-	4.2E-07
Delay rate (us/s)	8.20130507997E-01	Apriori rate (us/s)	8.20135282892E-01	Resid rate (us/s)	-4.77489E-06	+/-	2.4E-09
Total phase (deg)	252.9	Apriori accel (us/s/s)	2.08779184616E-05	Resid phase (deg)	228.6	+/-	12.9

ph/seg (deg)	RMS 91.1	Theor. 110.4	Amplitude Search (2048X8)	1.322 +/- 0.149	1.210	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.8	192.7	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	6.5	Inc. seg. avg.	0.617	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.313	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			

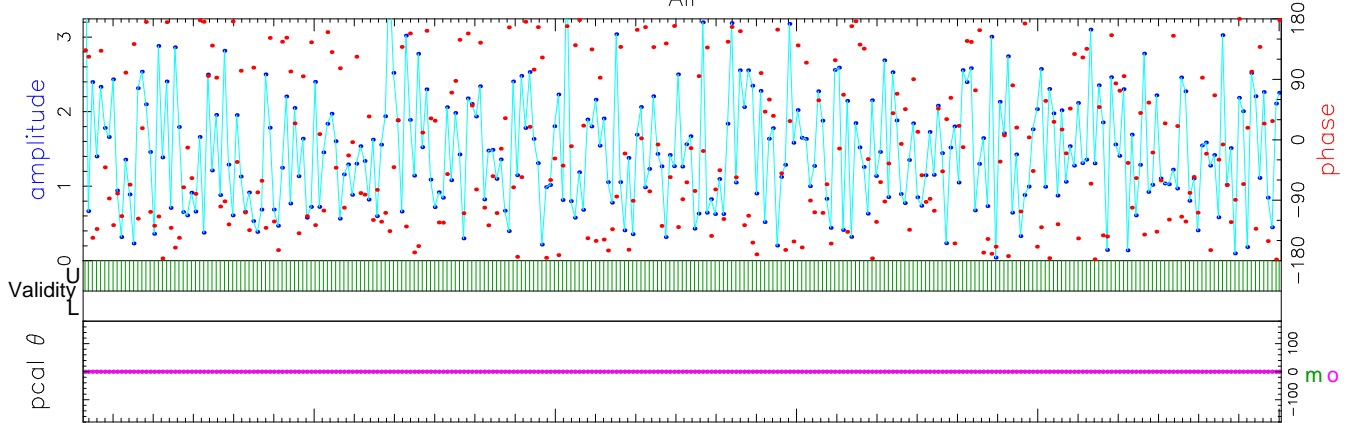
m: az 91.3 el 39.1 pa -73.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) -4769.945 -1975.517 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mo.W.77.1T5H2H

Fringe quality 8



SNR 7.7  
Int time 296.956  
Amp 1.082  
Phase -315.5  
PFD 1.5e-07  
Delays (us)  
SBD 0.269760  
MBD -0.000007  
Fringe rate (Hz)  
-0.127262  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-146.5  
0.3  
1550.0  
U/L 581/0  
m 0  
o 0  
m:o 0:0  
m:o 0:0  
m 1000  
o 1000  
m W03UR  
o W03UL

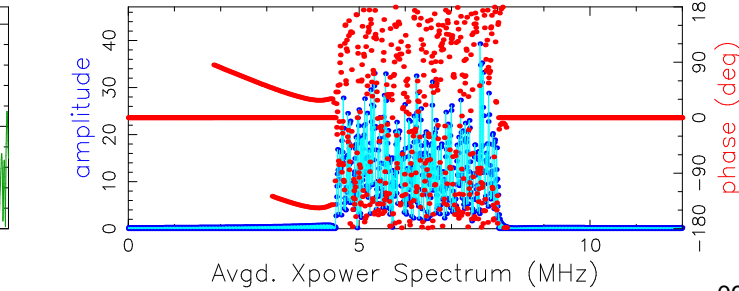
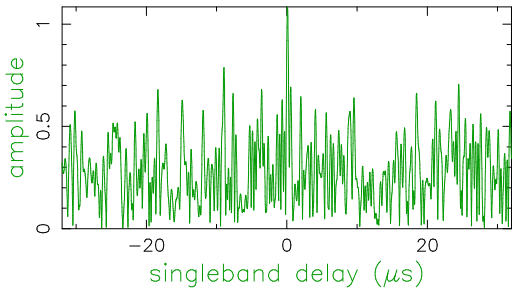
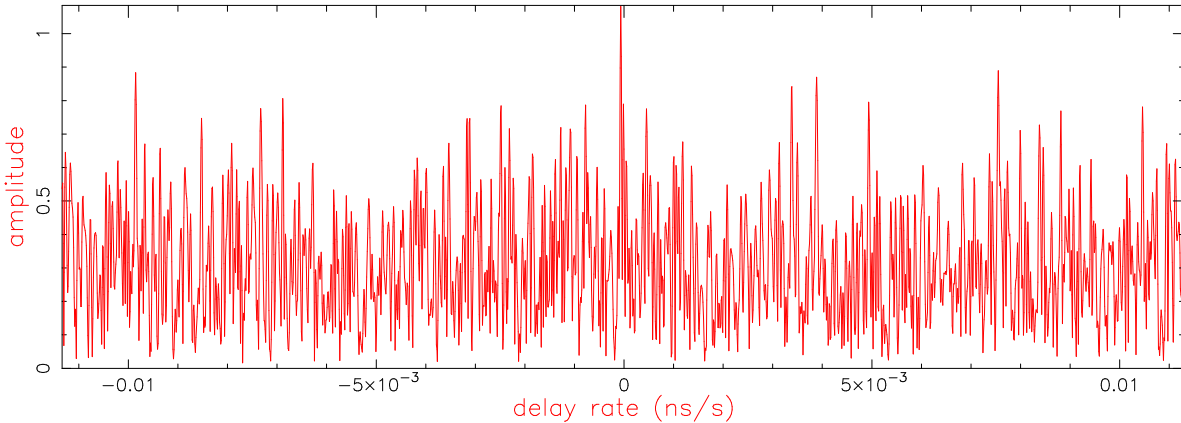
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.02176915507E+03	Apriori delay (usec)	-5.02203891261E+03	Resid mbdelay (usec)	-7.15108E-06	+/- 5.9E-03
Sband delay (usec)	-5.02176915261E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	2.69760E-01	+/- 5.9E-03
Phase delay (usec)	-5.02203891734E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.72337E-06	+/- 4.8E-07
Delay rate (us/s)	8.20133805508E-01	Apriori rate (us/s)	8.20135282892E-01	Resid rate (us/s)	-1.47738E-06	+/- 2.8E-09
Total phase (deg)	-291.2	Apriori accel (us/s/s)	2.08779184616E-05	Resid phase (deg)	-315.5	+/- 14.8

ph/seg (deg)	RMS 92.9	Theor. 126.1	Amplitude Search (2048X8)	1.082 +/- 0.140	1.043	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.9	220.1	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.	0.436	0.436	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.9	Inc. frq. avg.	1.073	1.073	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	

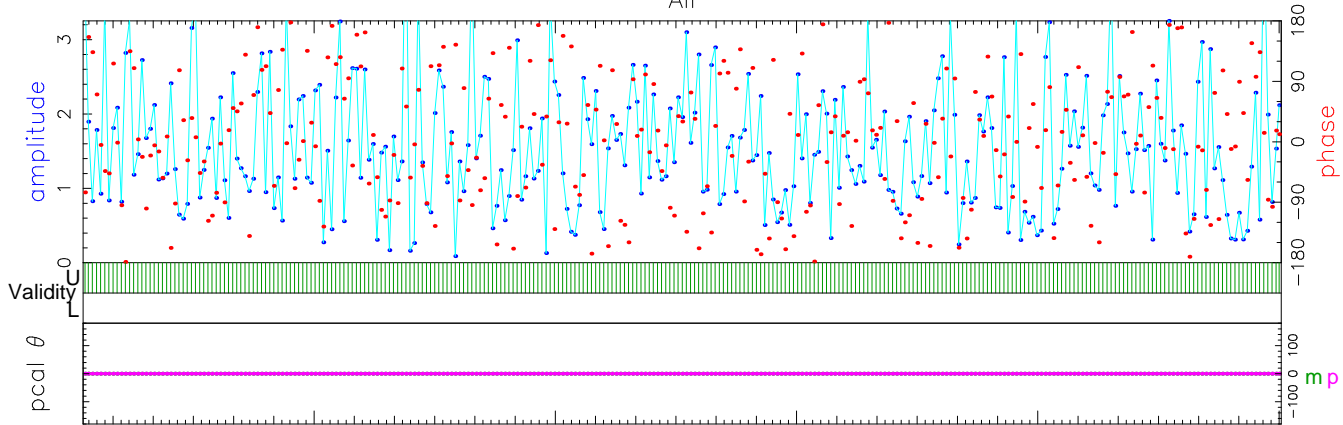
m: az 91.3 el 39.1 pa -73.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) -4769.945 -1975.517 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mo.W.88.1T5H2H

Fringe quality 8



SNR 7.8  
Int time 296.980  
Amp 1.084  
Phase -5.3  
PFD 8.2e-08  
Delays (us)  
SBD 0.092604  
MBD -0.000007  
Fringe rate (Hz)  
-0.006054  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



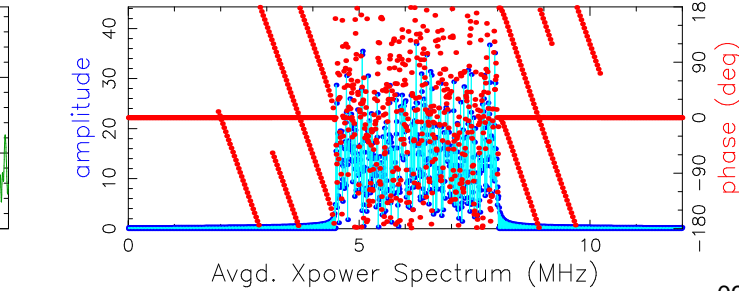
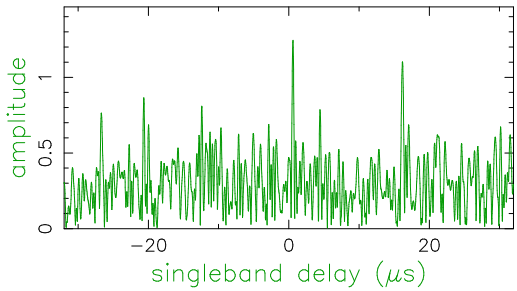
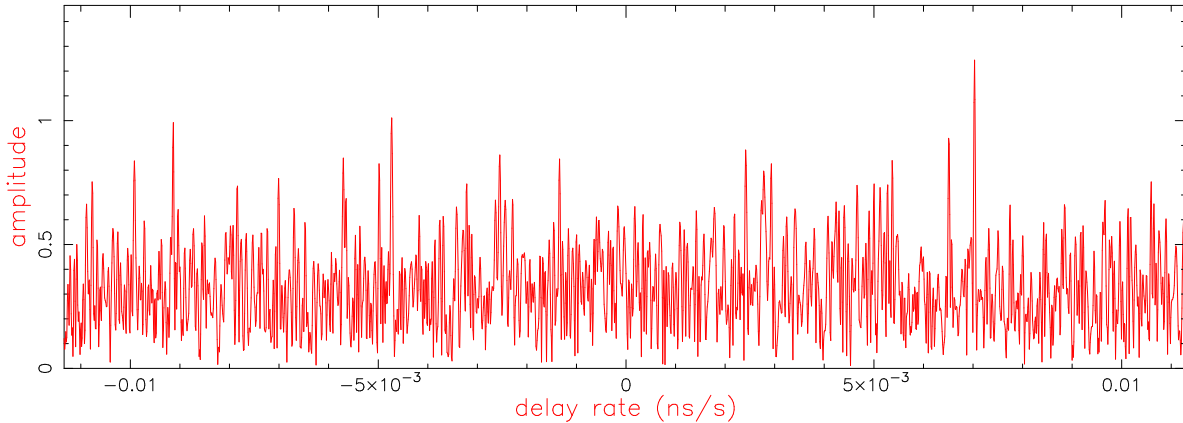
86227.00  
15.4  
0.3  
1541.4  
U/L 581/0  
m 0  
p 0  
m:p 0:0  
m:p 0:0  
m 1000  
p 1000  
m W03UR  
p W03UL

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)	-5.95772479975E+03	Apriori delay (usec)	-5.95781740854E+03	Resid mbdelay (usec)	-7.20568E-06	+/-	5.9E-03
Sband delay (usec)	-5.95772480454E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	9.26040E-02	+/-	5.9E-03
Phase delay (usec)	-5.95781740805E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.96220E-07	+/-	4.7E-07
Delay rate (us/s)	1.02849432378E+00	Apriori rate (us/s)	1.02849439407E+00	Resid rate (us/s)	-7.02854E-08	+/-	2.8E-09
Total phase (deg)	-211.3	Apriori accel (us/s/s)	2.67616781140E-05	Resid phase (deg)	-5.3	+/-	14.6

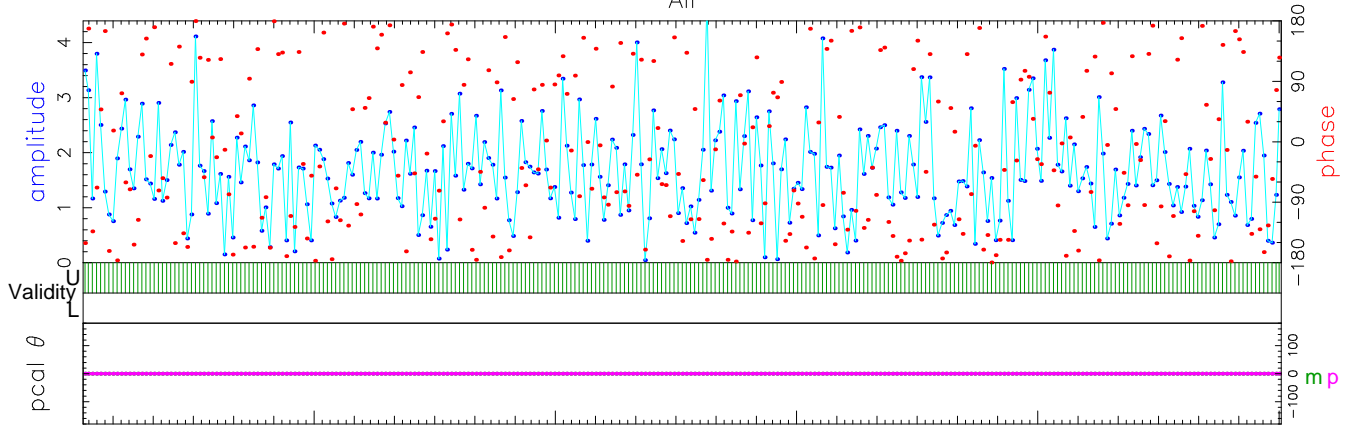
ph/seg (deg)	RMS 93.0	Theor. 124.9	Amplitude Search (2048X8)	1.084 +/- 0.139	1.067	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	92.3	218.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.464	0.464	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.8	Inc. frq. avg.	1.073	1.073	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				m: az 91.3 el 39.1 pa -73.7		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				p: az 167.6 el 66.6 pa -9.4		ion window (TEC) 0.00 0.00	
				u,v (fr/asec) -5982.363 -1522.146		simultaneous interpolator	

Fringe quality 8



SNR 9.0  
Int time 296.980  
Amp 1.466  
Phase -145.7  
PFD 4.9e-12  
Delays (us)  
SBD 0.585780  
MBD 0.000006  
Fringe rate (Hz)  
0.605362  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-159.1  
0.4  
1565.1  
U/L 581/0  
m 0  
p 0  
m:p 0:0  
m:p 0:0  
m 1000  
p 1000  
m W03UL  
p W03UL

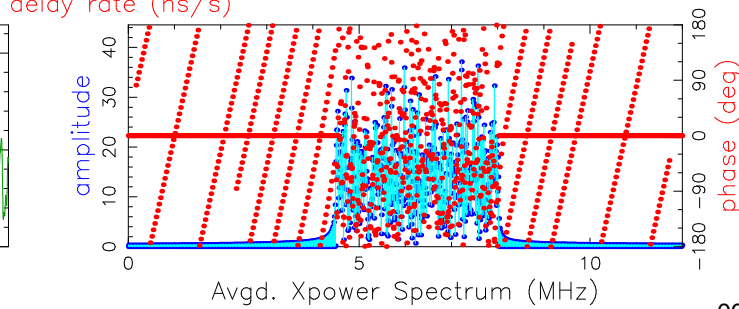
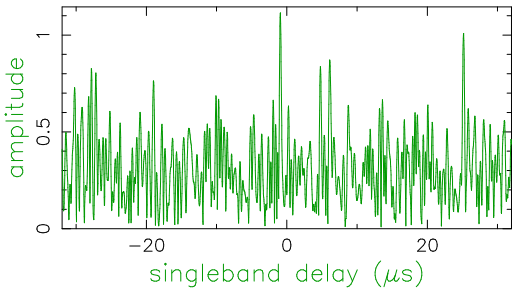
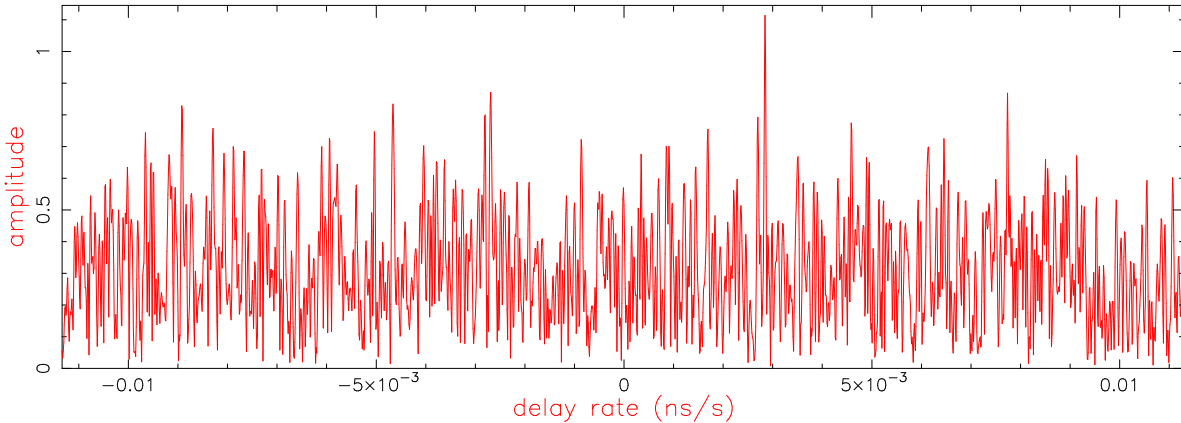
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.95723162331E+03	Apriori delay (usec)	-5.95781740854E+03	Resid mbdelay (usec)	5.84031E-06	+/-	5.1E-03
Sband delay (usec)	-5.95723162854E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	5.85780E-01	+/-	5.1E-03
Phase delay (usec)	-5.95781741367E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.12962E-06	+/-	4.1E-07
Delay rate (us/s)	1.02850142172E+00	Apriori rate (us/s)	1.02849439407E+00	Resid rate (us/s)	7.02765E-06	+/-	2.4E-09
Total phase (deg)	-351.6	Apriori accel (us/s/s)	2.67616781140E-05	Resid phase (deg)	-145.7	+/-	12.8

ph/seg (deg)	RMS 90.6	Theor. 108.8	Amplitude Search (2048X8)	1.466 +/- 0.163	1.226	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.7	190.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.703	Bits/sample: 2x2	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.456	Data rate(Mb/s): 48			ion window (TEC)	0.00	0.00

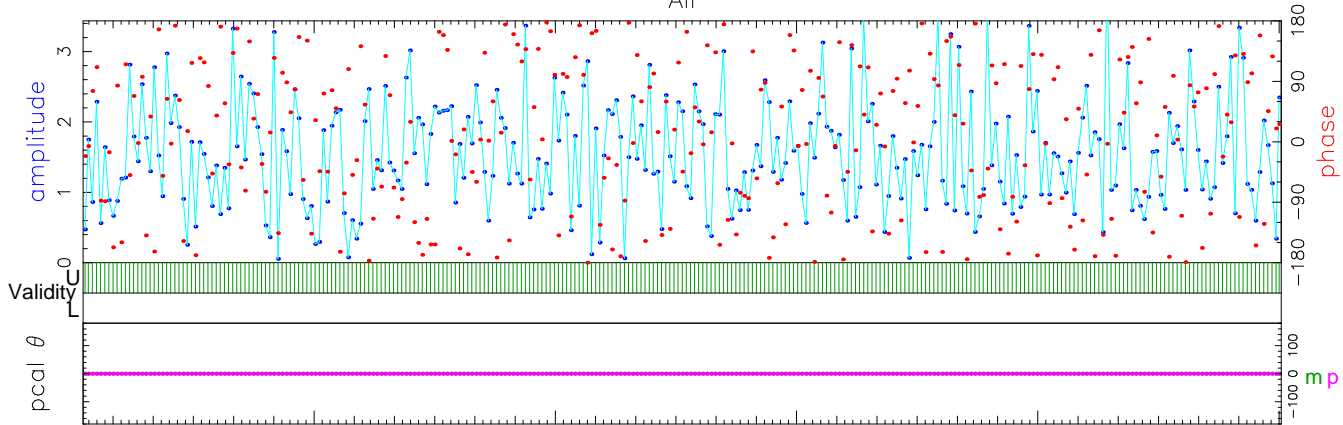
m: az 91.3 el 39.1 pa -73.7 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -5982.363 -1522.146 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mp.W.79.1T5H2H

Fringe quality 8



SNR 8.1  
Int time 296.980  
Amp 1.146  
Phase 302.4  
PFD 1.3e-08  
Delays (us)  
SBD -0.925501  
MBD 0.000006  
Fringe rate (Hz)  
0.245078  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
115.4  
0.3  
1492.6  
U/L 581/0  
m 0  
p 0  
m:p 0:0  
m:p 0:0  
m 1000  
p 1000  
m W03UR  
p W03UR

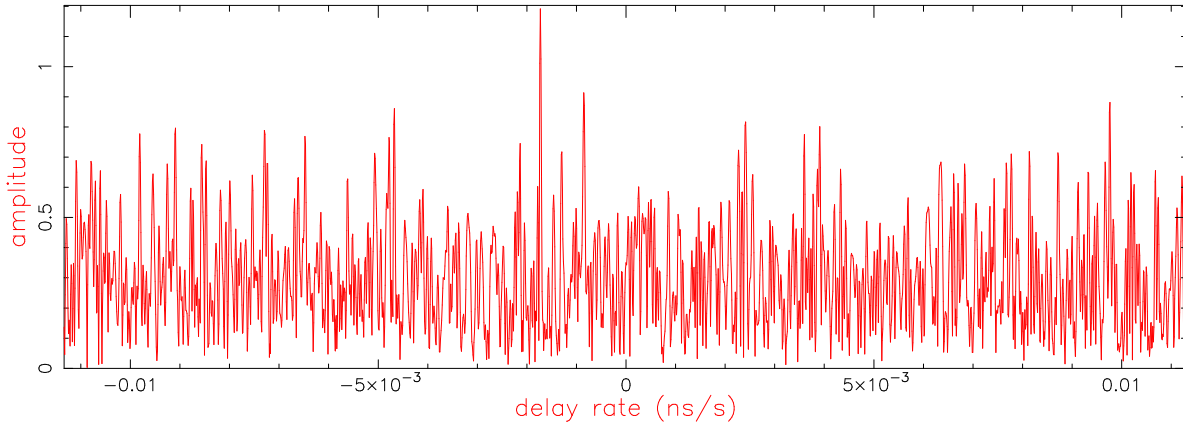
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.95874291348E+03	Apriori delay (usec)	-5.95781740854E+03	Resid mbdelay (usec)	5.63953E-06	+/- 5.7E-03
Sband delay (usec)	-5.95874290988E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-9.25501E-01	+/- 5.7E-03
Phase delay (usec)	-5.95781740482E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.72254E-06	+/- 4.6E-07
Delay rate (us/s)	1.02849723918E+00	Apriori rate (us/s)	1.02849439407E+00	Resid rate (us/s)	2.84511E-06	+/- 2.7E-09
Total phase (deg)	96.5	Apriori accel (us/s/s)	2.67616781140E-05	Resid phase (deg)	302.4	+/- 14.2

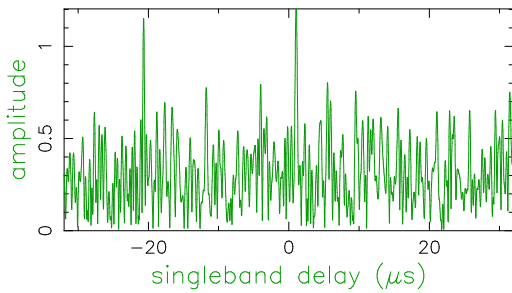
ph/seg (deg)	RMS 95.4	Theor. 121.4	Amplitude 1.146 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.0	211.8	Search (2048X8) 1.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.4	Inc. seg. avg. 0.493	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.135	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 91.3 el 39.1 pa -73.7 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -5982.363 -1522.146 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mp.W.90.1T5H2H

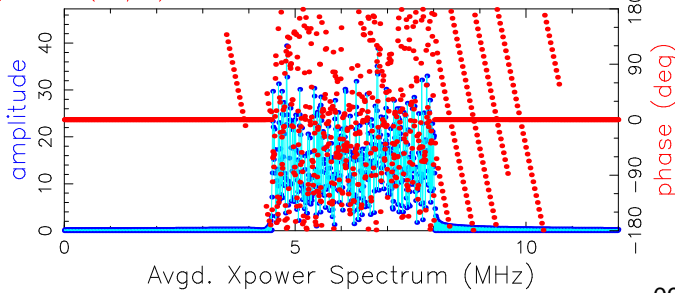
Fringe quality 8



SNR 8.6  
Int time 296.980  
Amp 1.203  
Phase -37.5  
PFD 1.4e-10  
Delays (us)  
SBD 1.000000  
MBD -0.000007  
Fringe rate (Hz)  
-0.148430  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

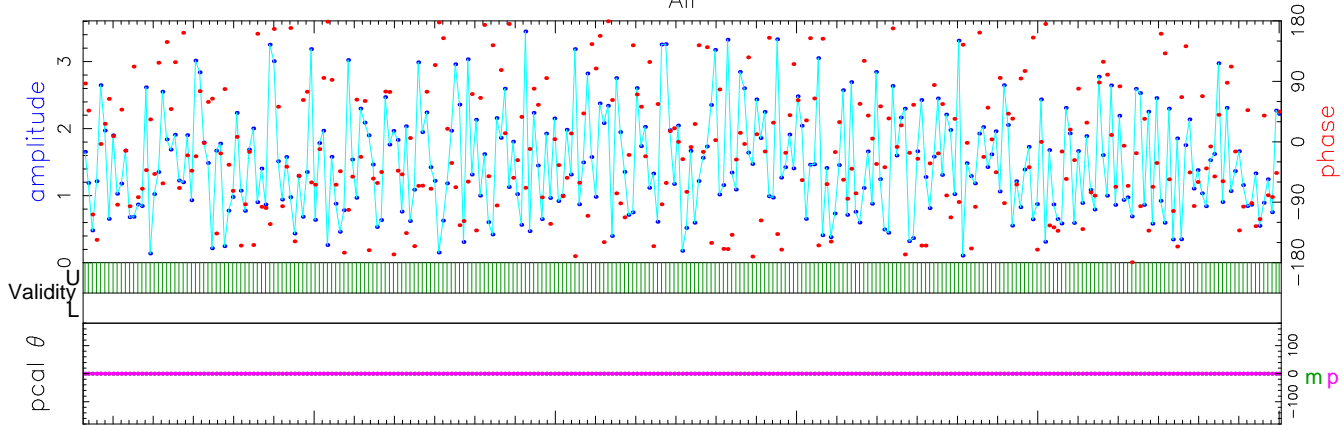


delay rate (ns/s)



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022002.56  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



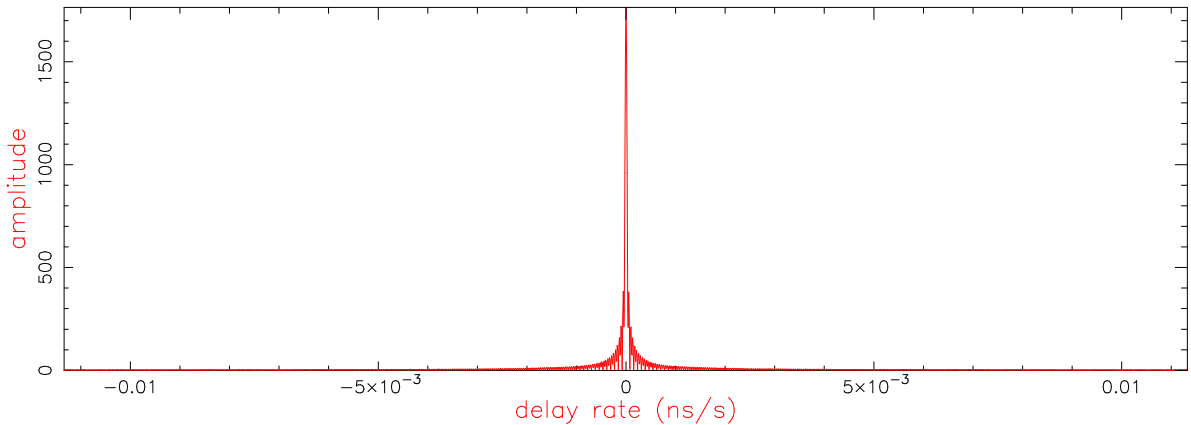
86227.00  
-37.1  
0.4  
1587.3  
U/L 581/0  
m 0  
p 0  
m:p 0:0  
m:p 0:0  
m 1000  
p 1000  
m W03UL  
p W03UR

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)	-5.95681740419E+03	Apriori delay (usec)	-5.95781740854E+03	Resid mbdelay (usec)	-7.24188E-06	+/-	5.3E-03
Sband delay (usec)	-5.95681740854E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	1.00000E+00	+/-	5.3E-03
Phase delay (usec)	-5.95781740974E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.19602E-06	+/-	4.3E-07
Delay rate (us/s)	1.02849267095E+00	Apriori rate (us/s)	1.02849439407E+00	Resid rate (us/s)	-1.72312E-06	+/-	2.5E-09
Total phase (deg)	-243.4	Apriori accel (us/s/s)	2.67616781140E-05	Resid phase (deg)	-37.5	+/-	13.3

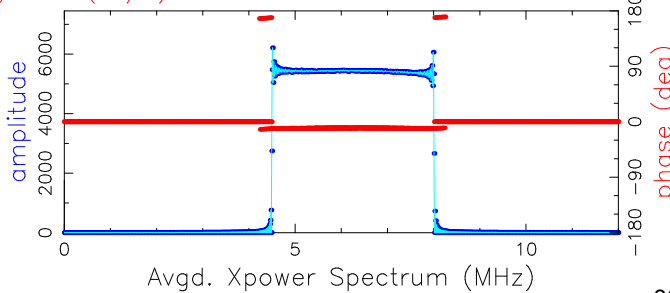
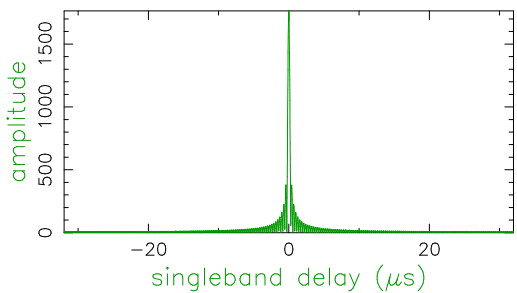
ph/seg (deg)	RMS 90.9	Theor. 113.7	Amplitude Search (2048X8)	1.203 +/- 0.140	1.158	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.0	198.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.513	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.195	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				m: az 91.3 el 39.1 pa -73.7	u,v (fr/asec) -5982.363 -1522.146	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

m: az 91.3 el 39.1 pa -73.7 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -5982.363 -1522.146 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/mp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/mp.W.97.1T5H2H



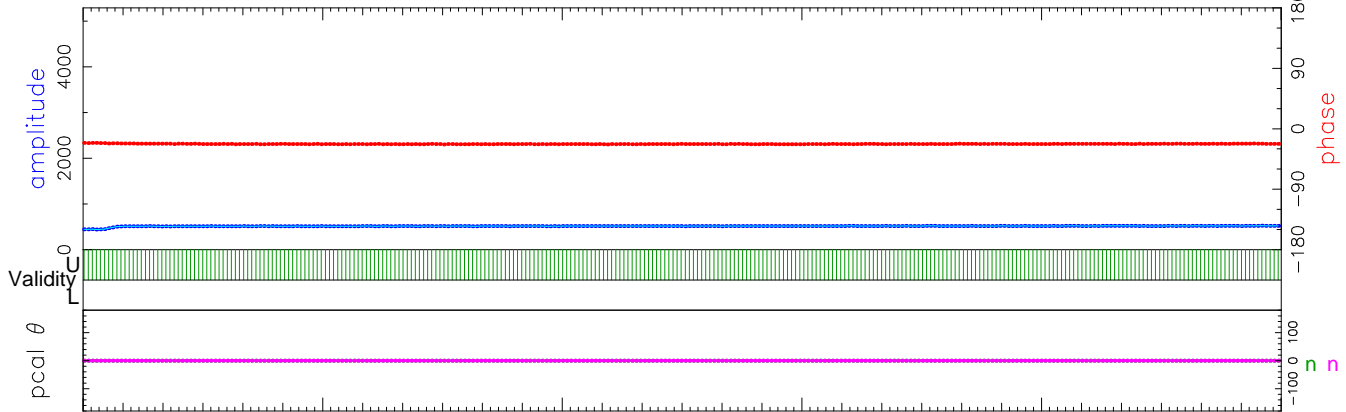
Fringe quality 5

SNR 12793.5  
Int time 299.975  
Amp 1764.383  
Phase 145.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.005381  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

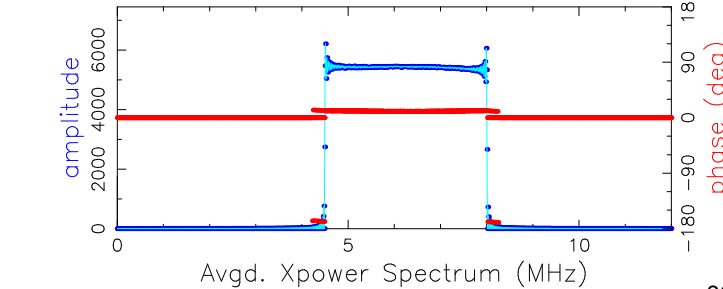
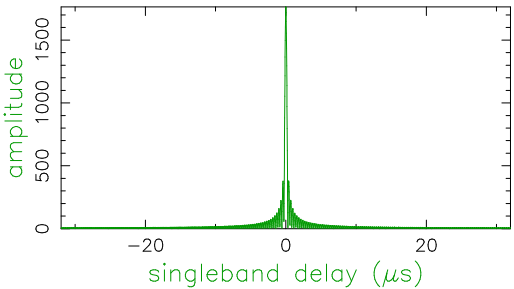
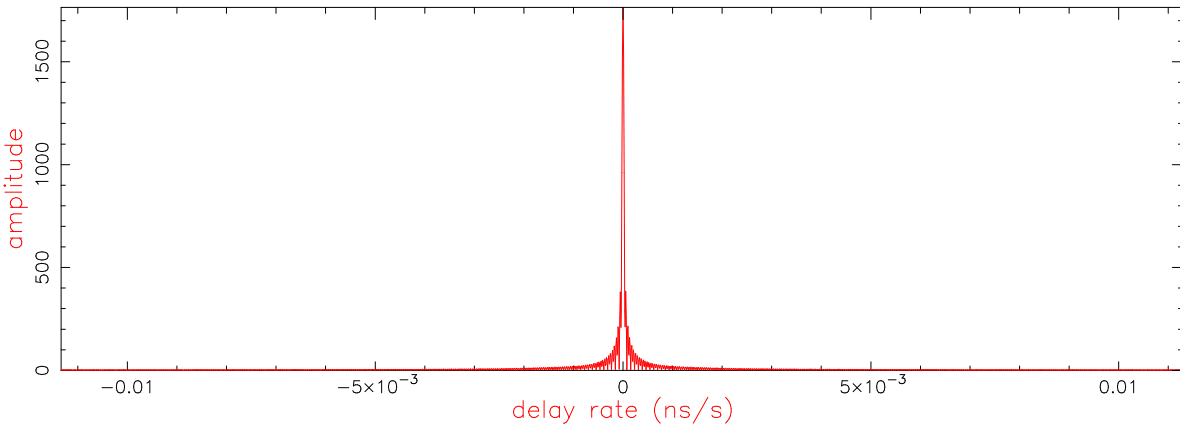


86227.00  
-22.6  
516.6  
1536.7  
U/L 586/0  
n 0  
n 0  
n:n 0:0  
n:n 0:0  
n 1000  
n 1000  
n W03UL  
n W03UR

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)	-5.38662525659E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.48014E-06	+/- 3.6E-06
Sband delay (usec)	-5.38133333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.38133E-03	+/- 3.6E-06
Phase delay (usec)	-7.28769433810E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.28769E-07	+/- 2.9E-10
Delay rate (us/s)	-7.51071076759E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-7.51071E-11	+/- 1.7E-12
Total phase (deg)	145.9	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	145.9	+/- 0.0

ph/seg (deg)	0.3	Theor.	0.1	Amplitude	1764.383 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.1	Search (2048X8)	1763.336	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.	516.614	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1763.347	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

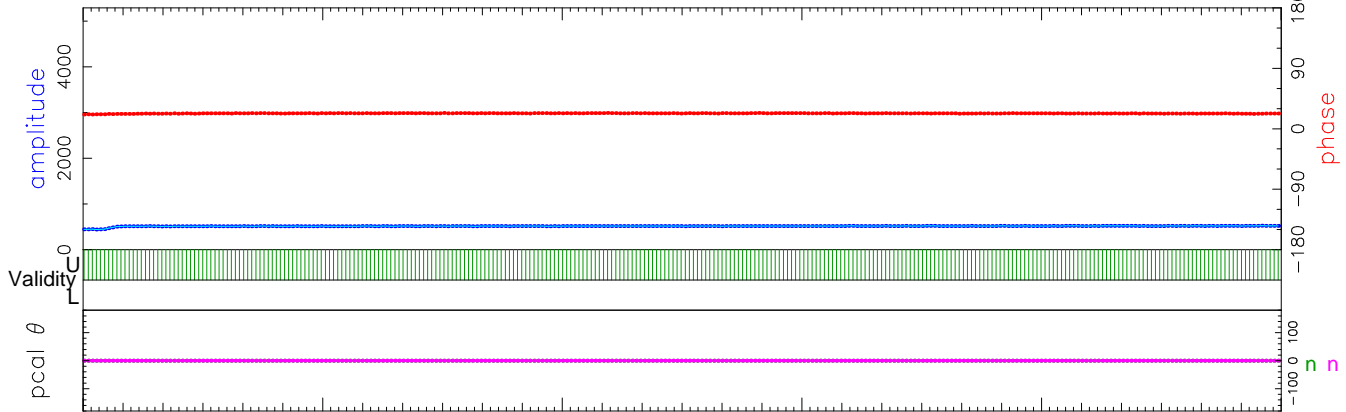


Fringe quality 5

SNR 12793.5  
Int time 299.975  
Amp 1764.383  
Phase -145.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.005381  
MBD -0.000004  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052029  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



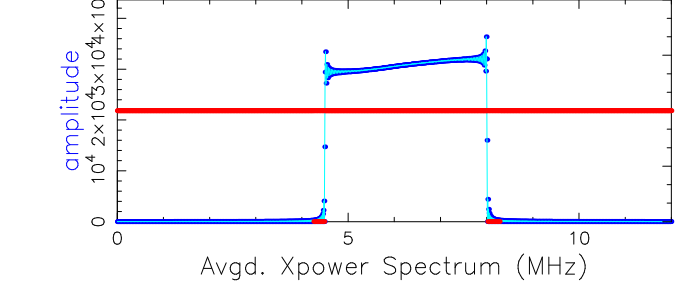
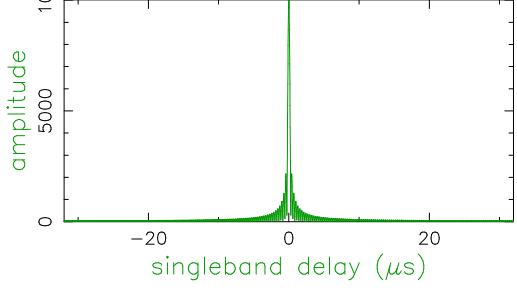
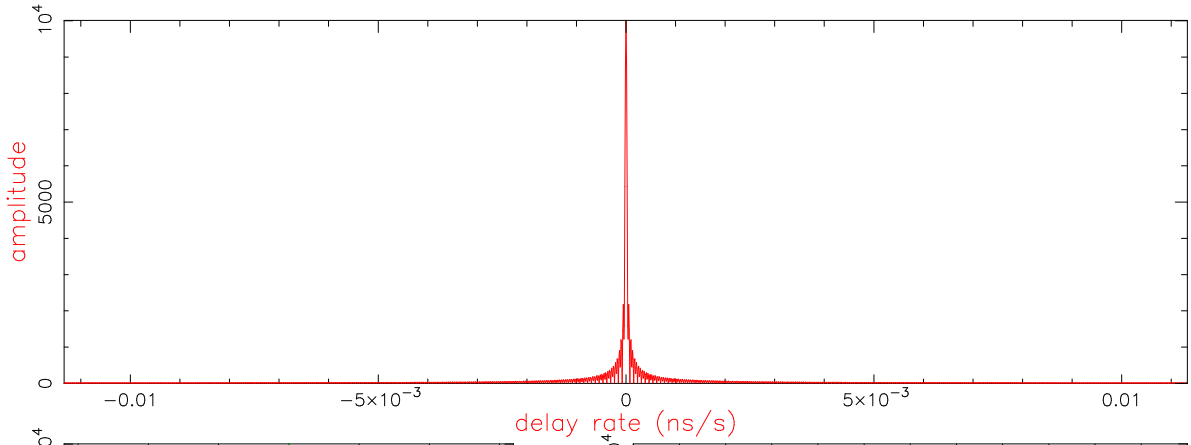
86227.00  
22.9  
516.6  
1537.3  
U/L 586/0  
n 0  
n 0  
n:n 0:0  
n:n 0:0  
n 1000  
n 1000  
n W03UR  
n W03UL

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)	5.37673327380E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.41184E-06	+/- 3.6E-06
Sband delay (usec)	5.38133333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.38133E-03	+/- 3.6E-06
Phase delay (usec)	7.39449192394E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.39449E-07	+/- 2.9E-10
Delay rate (us/s)	7.51071076759E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.51071E-11	+/- 1.7E-12
Total phase (deg)	-145.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-145.6	+/- 0.0

RMS Theor. Amplitude 1764.383 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
ph/seg (deg) 0.3 0.1 Search (2048X8) 1763.336 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
amp/seg (%) 70.7 0.1 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. 516.614 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011  
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1763.347 Data rate(Mb/s): 48 nlags: 1536 t\_cohere infinite ion window (TEC) 0.00 0.00



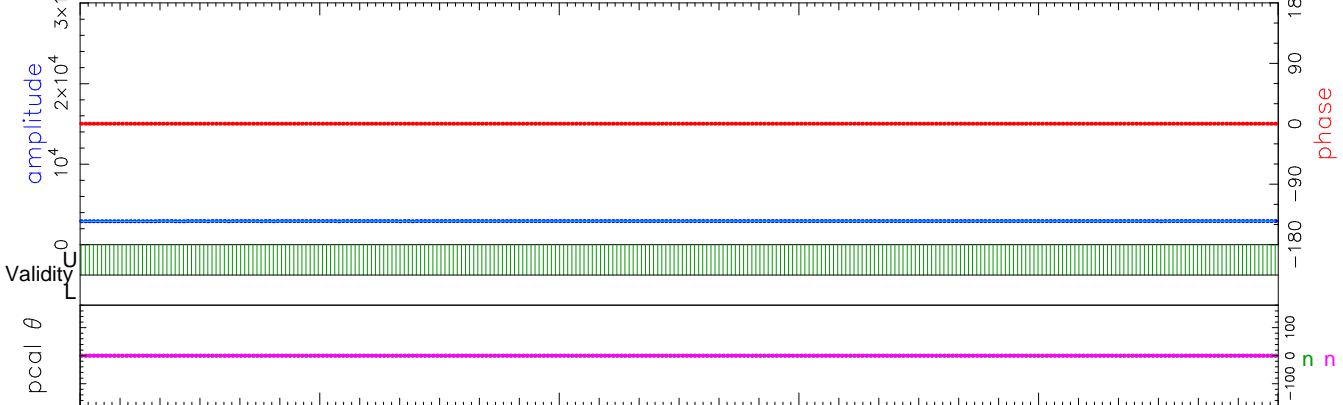


Fringe quality 5

SNR 72604.7  
Int time 299.975  
Amp 10013.103  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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	2933.5	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	86227.00	0.2	2933.5	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	86227.00	0.2	2933.5	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
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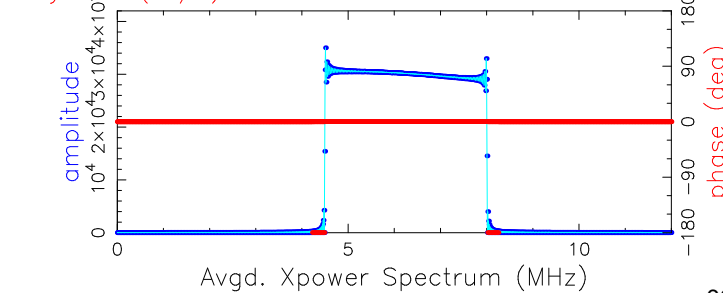
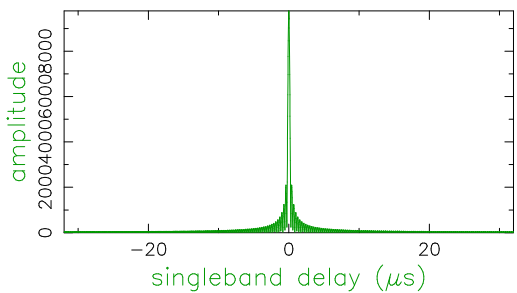
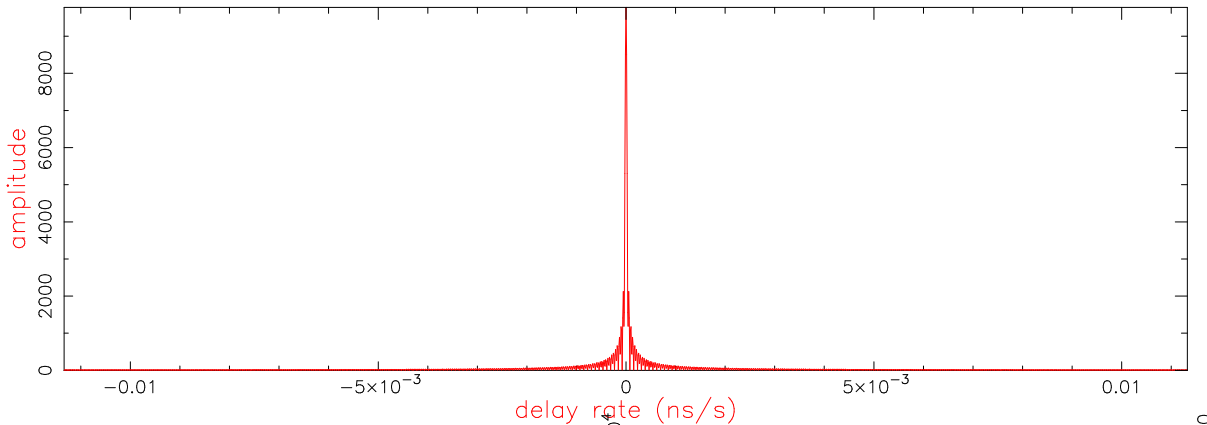
Group delay (usec)(sbd)	5.65948020922E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.93782E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	6.41068984255E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.41069E-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	10013.104 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	70.7		0.0	Search (2048X8)	10013.104	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.	2933.526	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10013.104	Data rate(Mb/s):	48	nlags:	1536 t_cohere infinite	ion window (TEC)	0.00 0.00

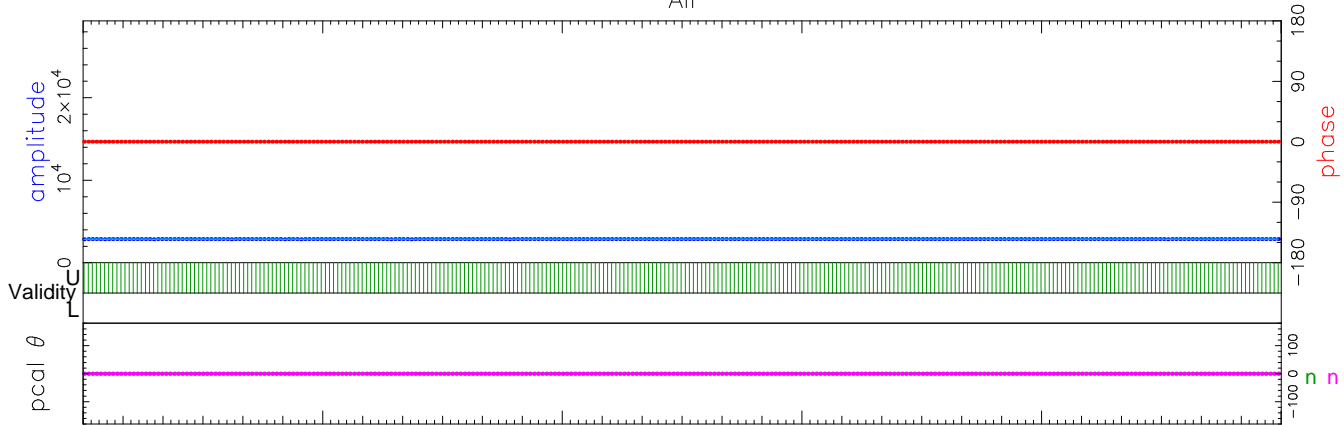
Fringe quality 5

SNR 70893.0  
Int time 299.975  
Amp 9777.042  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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  
2864.4  
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

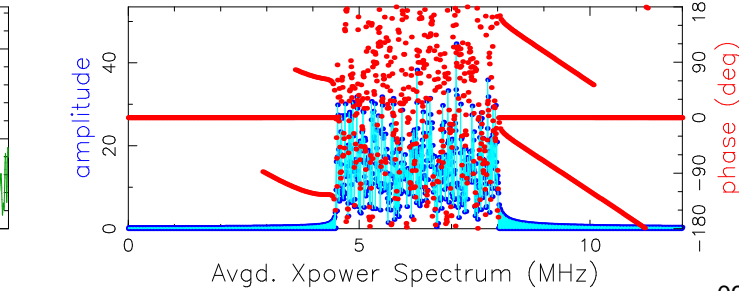
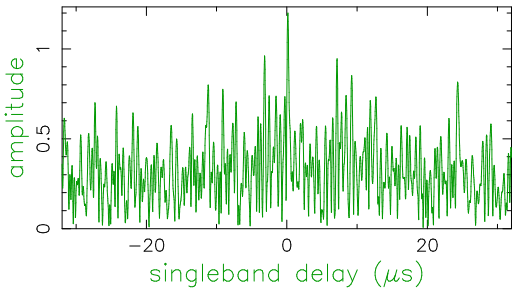
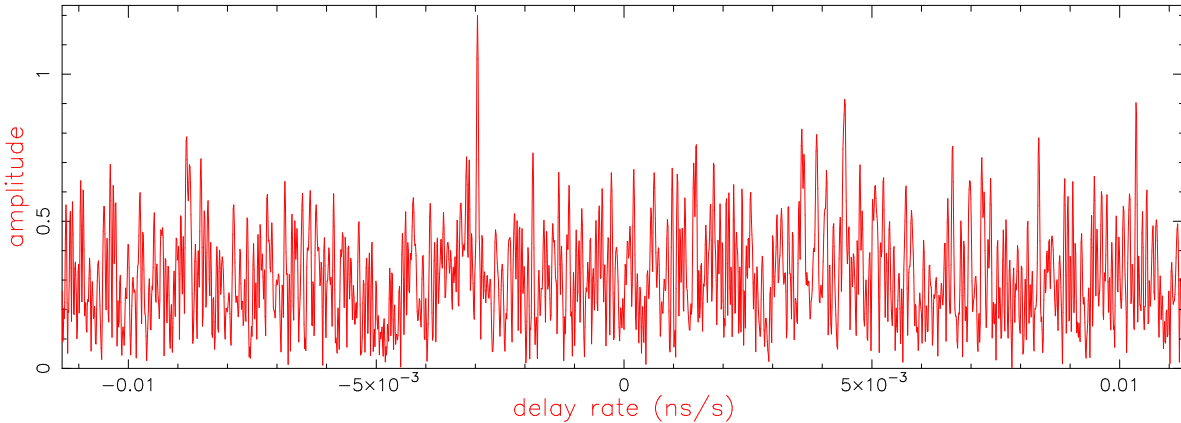
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	4.70989365280E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88740E-06	+/- 6.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.5E-07
Phase delay (usec)	7.43589938221E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43590E-09	+/- 5.2E-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	9777.042 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	9777.041	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.	2864.367	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9777.041	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

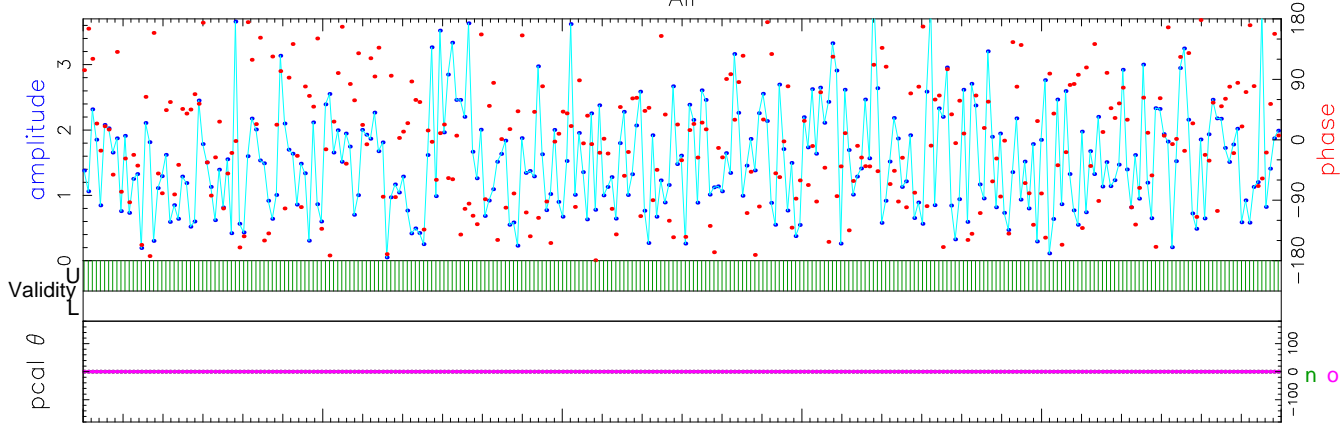
n: az 201.7 el 57.9 pa 16.3      n: az 201.7 el 57.9 pa 16.3      u,v (fr/asec) 0.000 0.000      simultaneous interpolator  
Control file: cf\_1234\_gmva\_line      Input file: /Exps/c211d/v1/LINES1/1234/No0021/nn..1T5H2H      Output file: /Exps/c211d/v1/LINES1/1234/No0021/nn.W.96.1T5H2H

Fringe quality 8



SNR 8.7  
Int time 299.951  
Amp 1.234  
Phase -145.7  
PFD 5.9e-11  
Delays (us)  
SBD 0.142644  
MBD -0.000006  
Fringe rate (Hz)  
-0.254394  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
2.0  
0.4  
1543.9  
U/L 586/0  
n 0  
o 0  
n:o 0:0  
n:o 0:0  
n 1000  
o 1000  
n W03UL  
o W03UR

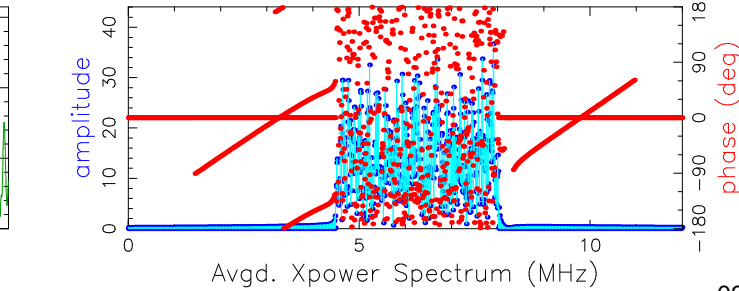
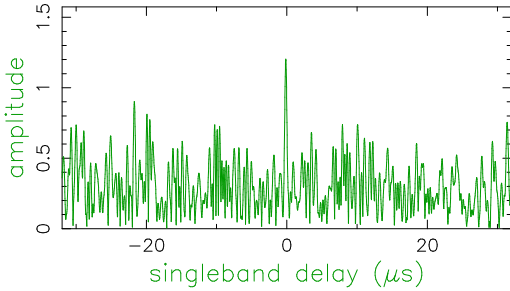
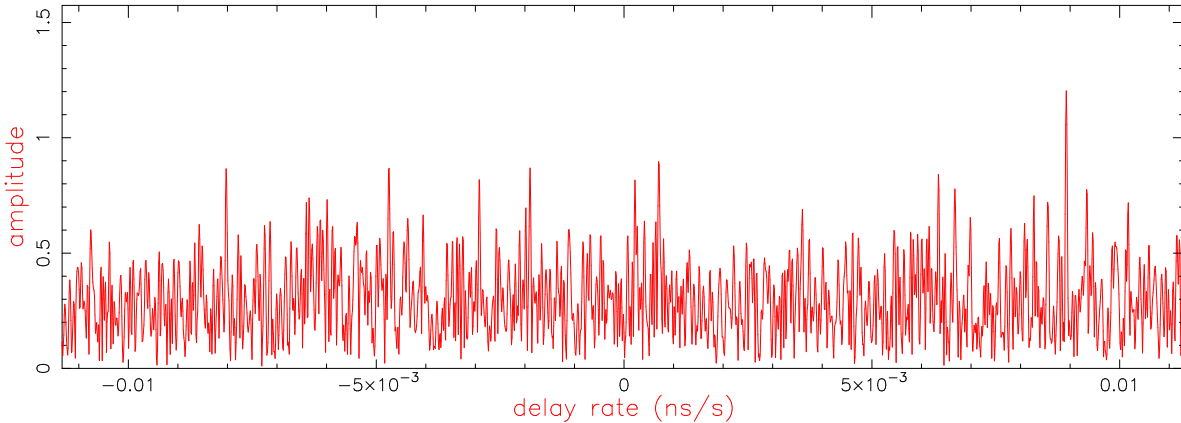
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.13172545861E+02	Apriori delay (usec)	-6.13315186541E+02	Resid mbdelay (usec)	-6.05472E-06	+/-	5.3E-03
Sband delay (usec)	-6.13172542541E+02	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	1.42644E-01	+/-	5.3E-03
Phase delay (usec)	-6.13315186477E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.40392E-08	+/-	4.2E-07
Delay rate (us/s)	-5.43883102593E-01	Apriori rate (us/s)	-5.43880149333E-01	Resid rate (us/s)	-2.95326E-06	+/-	2.5E-09
Total phase (deg)	-206.4	Apriori accel (us/s/s)	4.62324125929E-06	Resid phase (deg)	-145.7	+/-	13.2

ph/seg (deg)	90.2	Theor.	112.7	Amplitude	1.234 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.9		196.8	Search (2048X8)	1.188	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.	0.541	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	1.226	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

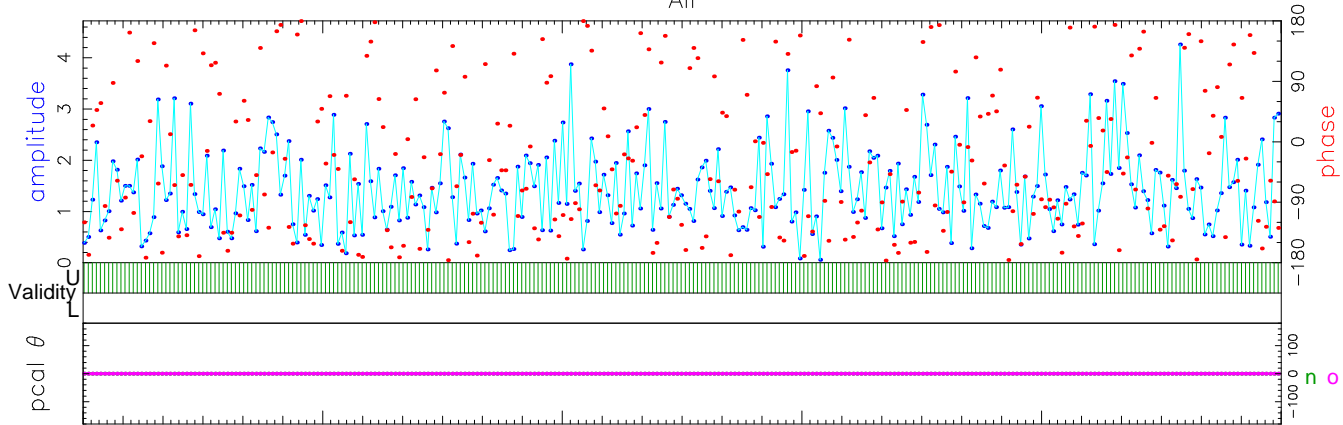
n: az 201.7 el 57.9 pa 16.3 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 3180.155 599.930 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/no..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/no.W.100.1T5H2H

Fringe quality 8



SNR 8.7  
Int time 299.951  
Amp 1.574  
Phase 163.9  
PFD 4.7e-11  
Delays (us)  
SBD -0.146828  
MBD 0.000006  
Fringe rate (Hz)  
0.768051  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052029  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



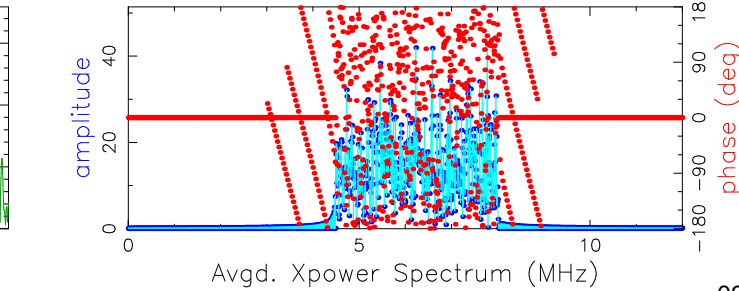
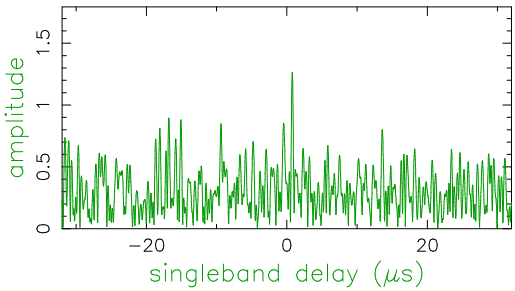
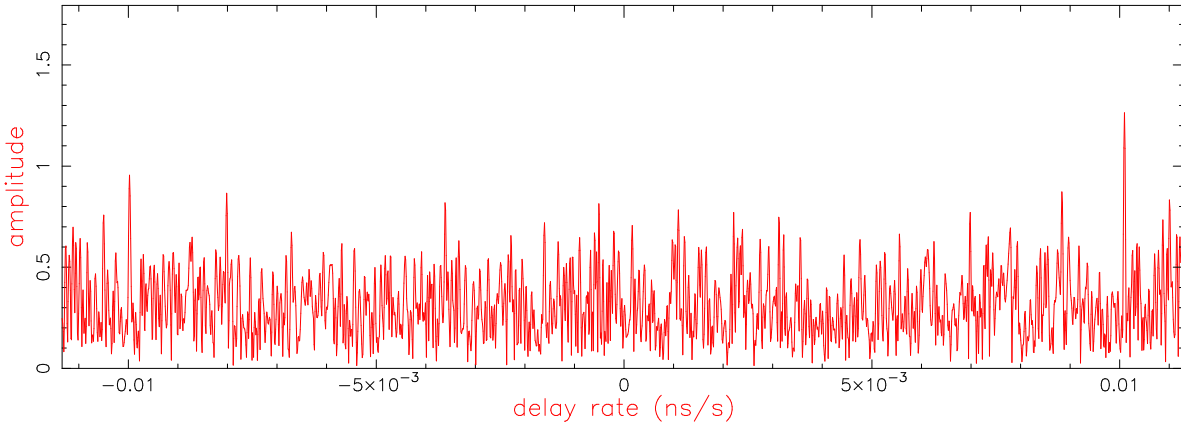
86227.00  
-114.9  
0.5  
1530.0  
U/L 586/0  
n 0  
o 0  
n:o 0:0  
n:o 0:0  
n 1000  
o 1000  
n W03UR  
o W03UL

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)	-6.13462013630E+02	Apriori delay (usec)	-6.13315186541E+02	Resid mbdelay (usec)	6.26996E-06	+/-	5.3E-03
Sband delay (usec)	-6.13462014541E+02	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-1.46828E-01	+/-	5.3E-03
Phase delay (usec)	-6.13315190248E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.70669E-06	+/-	4.2E-07
Delay rate (us/s)	-5.43871233018E-01	Apriori rate (us/s)	-5.43880149333E-01	Resid rate (us/s)	8.91631E-06	+/-	2.4E-09
Total phase (deg)	103.2	Apriori accel (us/s/s)	4.62324125929E-06	Resid phase (deg)	163.9	+/-	13.1

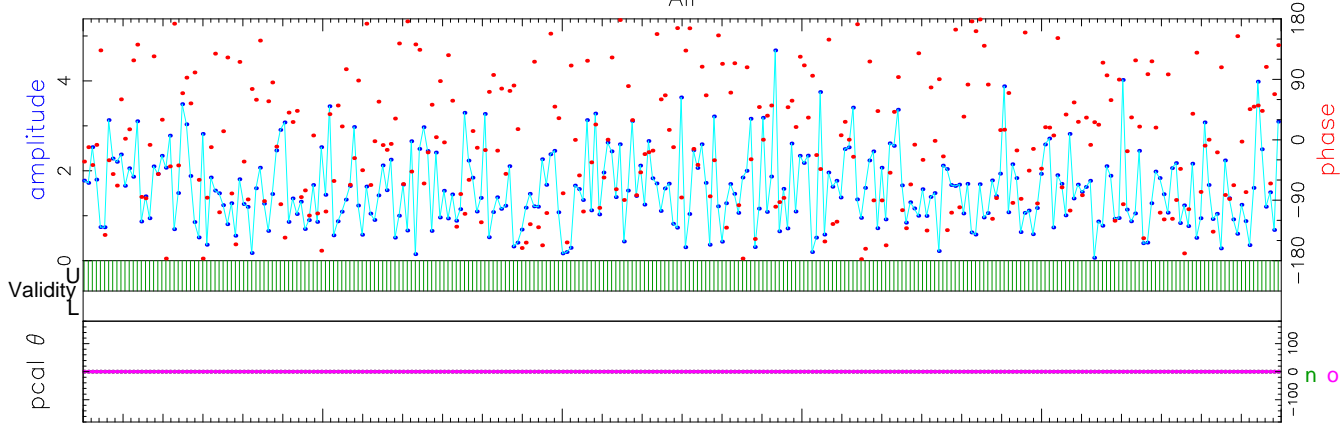
ph/seg (deg)	RMS 91.2	Theor. 112.4	Amplitude Search (2048X8)	1.574 +/- 0.180	1.175	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.4	196.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.644	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.564	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
n: az 201.7 el 57.9 pa 16.3	o: az 148.4 el 60.7 pa -24.7		u,v (fr/asec) 3180.155 599.930		nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8



SNR 9.2  
Int time 299.951  
Amp 1.794  
Phase -208.3  
PFD 8.7e-13  
Delays (us)  
SBD 0.776419  
MBD 0.000004  
Fringe rate (Hz)  
0.868935  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



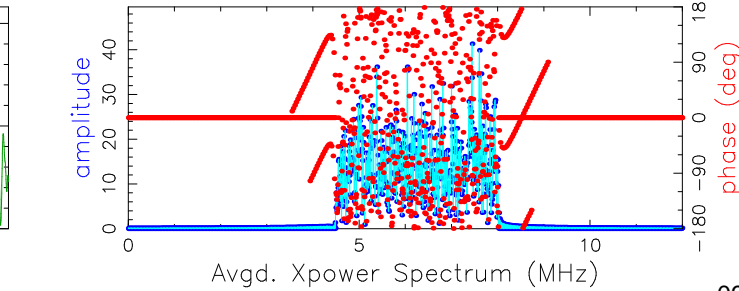
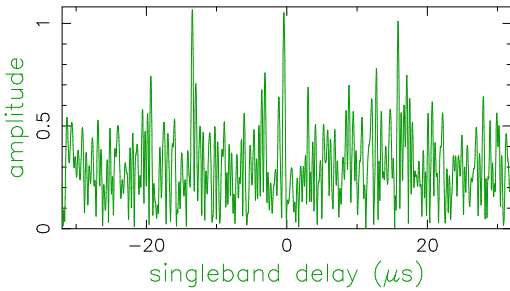
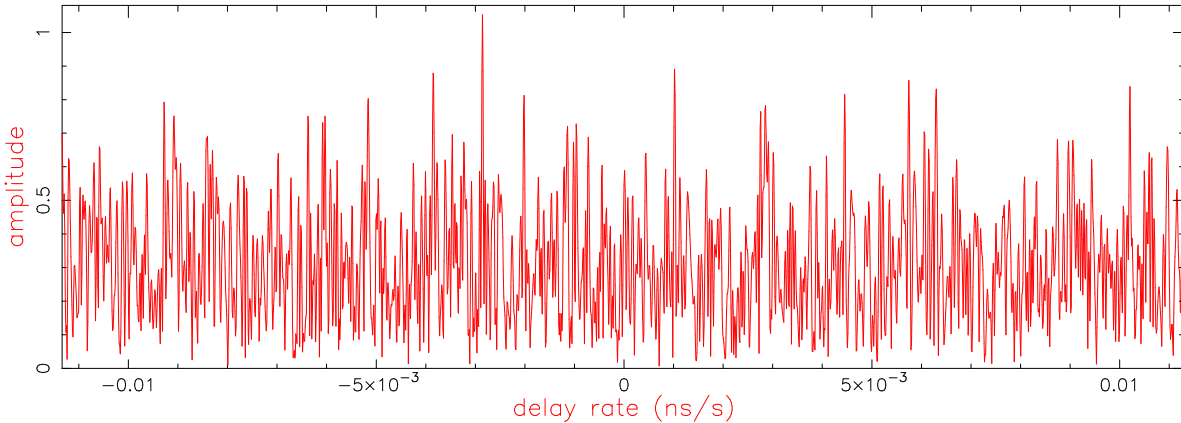
86227.00  
-11.0  
0.5  
1574.3  
U/L 586/0  
n 0  
o 0  
n:o 0:0  
n:o 0:0  
n 1000  
o 1000  
n W03UL  
o W03UL

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)	-6.12538766448E+02	Apriori delay (usec)	-6.13315186541E+02	Resid mbdelay (usec)	4.35316E-06	+/- 5.0E-03
Sband delay (usec)	-6.12538767874E+02	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	7.76419E-01	+/- 5.0E-03
Phase delay (usec)	-6.13315186895E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.54267E-07	+/- 4.0E-07
Delay rate (us/s)	-5.43870061859E-01	Apriori rate (us/s)	-5.43880149333E-01	Resid rate (us/s)	1.00875E-05	+/- 2.3E-09
Total phase (deg)	-269.0	Apriori accel (us/s/s)	4.62324125929E-06	Resid phase (deg)	-208.3	+/- 12.5

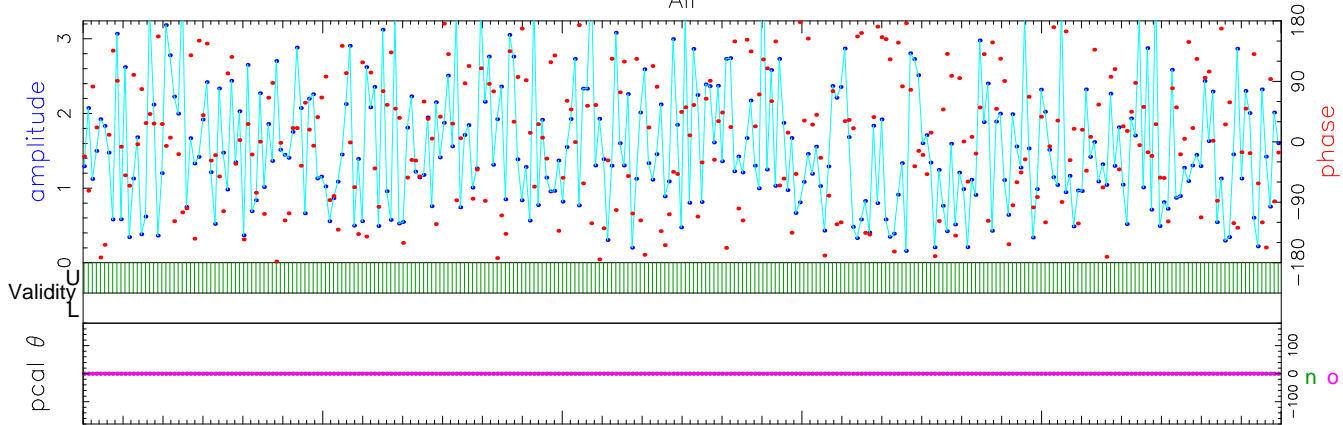
ph/seg (deg)	92.6	Theor.	107.0	Amplitude	1.794 +/- 0.196	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.1		186.7	Search (2048X8)	1.251	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		6.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		10.9	Inc. seg. avg.	0.825	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	1.783	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 7.6  
Int time 299.951  
Amp 1.081  
Phase 91.7  
PFD 3.6e-07  
Delays (us)  
SBD -0.416176  
MBD -0.000007  
Fringe rate (Hz)  
-0.246133  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
17.3  
0.3  
891.2  
U/L 586/0  
n 0  
o 0  
n:o 0:0  
n:o 0:0  
n 1000  
o 1000  
n W03UR  
o W03UR

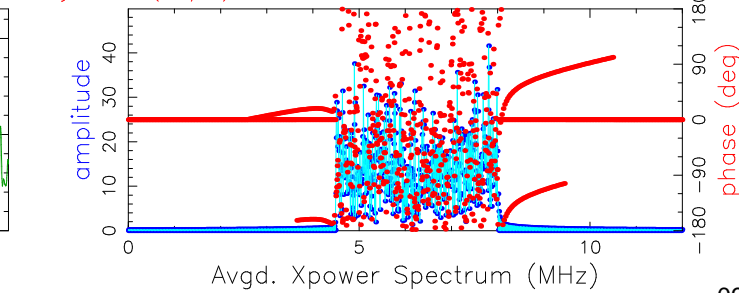
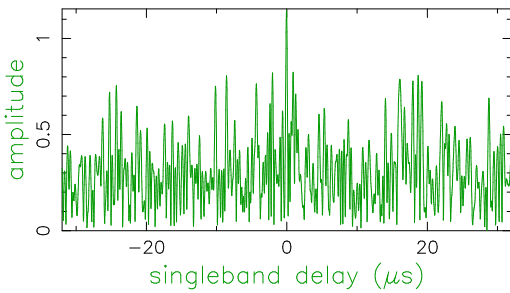
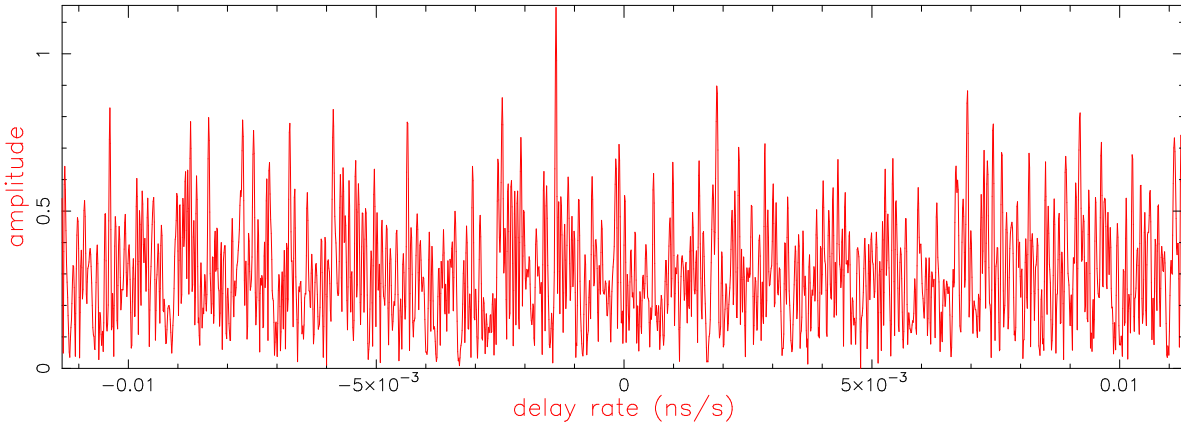
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-6.13731362369E+02	Apriori delay (usec)	-6.13315186541E+02	Resid mbdelay (usec)	-6.87831E-06	+/-	6.0E-03
Sband delay (usec)	-6.13731362541E+02	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-4.16176E-01	+/-	6.0E-03
Phase delay (usec)	-6.13315185982E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.58877E-07	+/-	4.8E-07
Delay rate (us/s)	-5.43883006693E-01	Apriori rate (us/s)	-5.43880149333E-01	Resid rate (us/s)	-2.85736E-06	+/-	2.8E-09
Total phase (deg)	31.0	Apriori accel (us/s/s)	4.62324125929E-06	Resid phase (deg)	91.7	+/-	15.0

ph/seg (deg)	RMS 93.7	Theor. 128.5	Amplitude Search (2048X8)	1.081 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.7	224.3	Interp.	1.050	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.457	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.1	Inc. frq. avg.	1.071	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

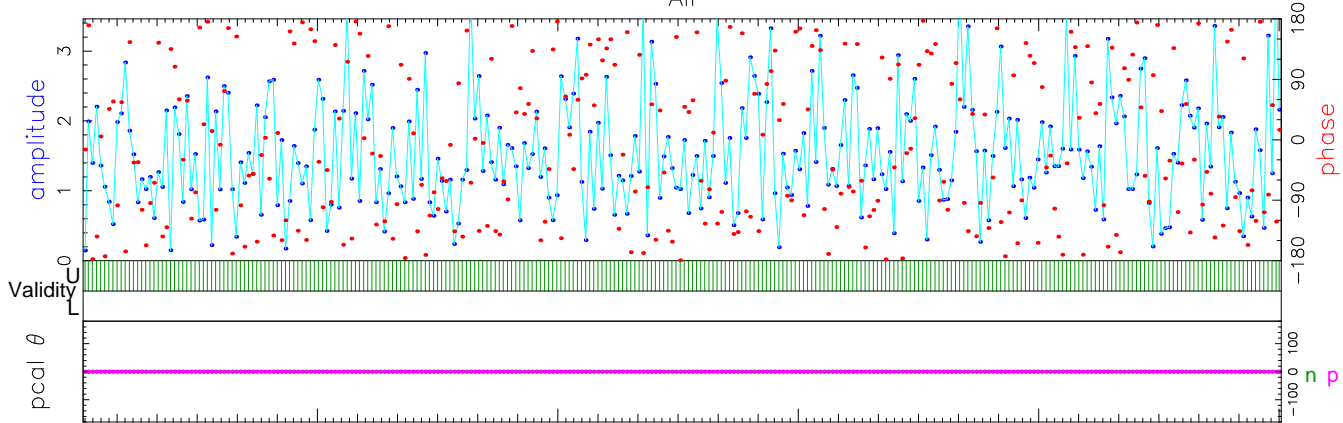
n: az 201.7 el 57.9 pa 16.3 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 3180.155 599.930 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/no..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/no.W.93.1T5H2H

Fringe quality 8



SNR 8.3  
Int time 297.974  
Amp 1.154  
Phase 8.0  
PFD 1.9e-09  
Delays (us)  
SBD -0.039792  
MBD -0.000007  
Fringe rate (Hz)  
-0.118238  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-158.2  
0.3  
1535.1  
U/L 583/0  
n 0  
p 0  
n:p 0:0  
n:p 0:0  
n 1000  
p 1000  
n W03UR  
p W03UL

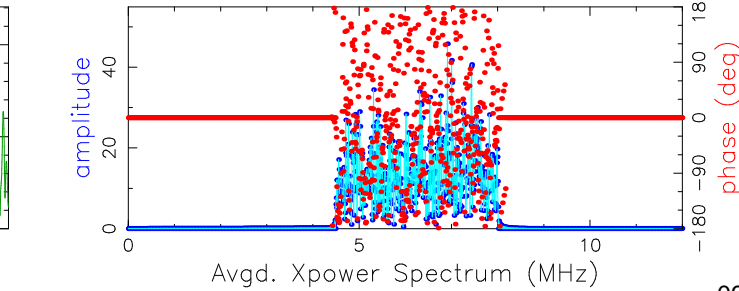
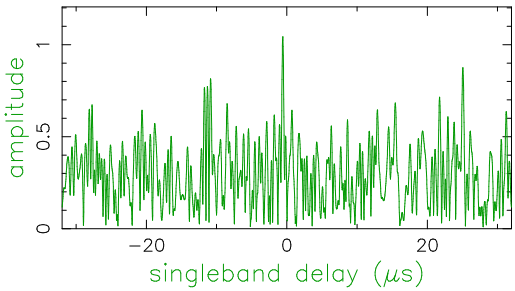
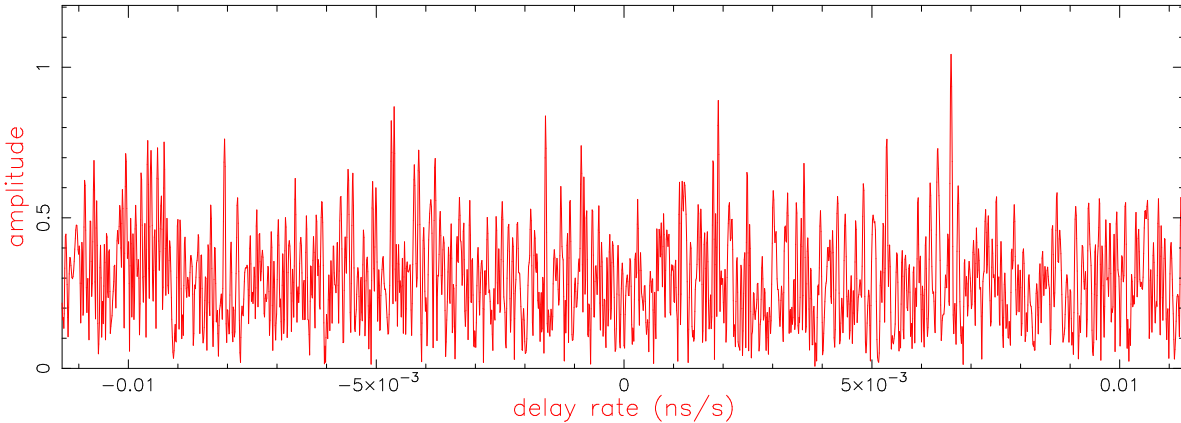
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-1.54913348002E+03	Apriori delay (usec)	-1.54909368247E+03	Resid mbdelay (usec)	-7.22405E-06	+/-	5.5E-03
Sband delay (usec)	-1.54913347447E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-3.97920E-02	+/-	5.5E-03
Phase delay (usec)	-1.54909368757E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.10102E-06	+/-	4.5E-07
Delay rate (us/s)	-3.35522410782E-01	Apriori rate (us/s)	-3.35521038158E-01	Resid rate (us/s)	-1.37262E-06	+/-	2.6E-09
Total phase (deg)	77.1	Apriori accel (us/s/s)	1.05070009117E-05	Resid phase (deg)	8.0	+/-	13.8

ph/seg (deg)	RMS 91.1	Theor. 118.1	Amplitude Search (2048X8)	1.154 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.5	206.2	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	6.9	Inc. seg. avg.	0.500	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.145	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 201.7 el 57.9 pa 16.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 1967.736 1053.302 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/np..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/np.W.107.1T5H2H

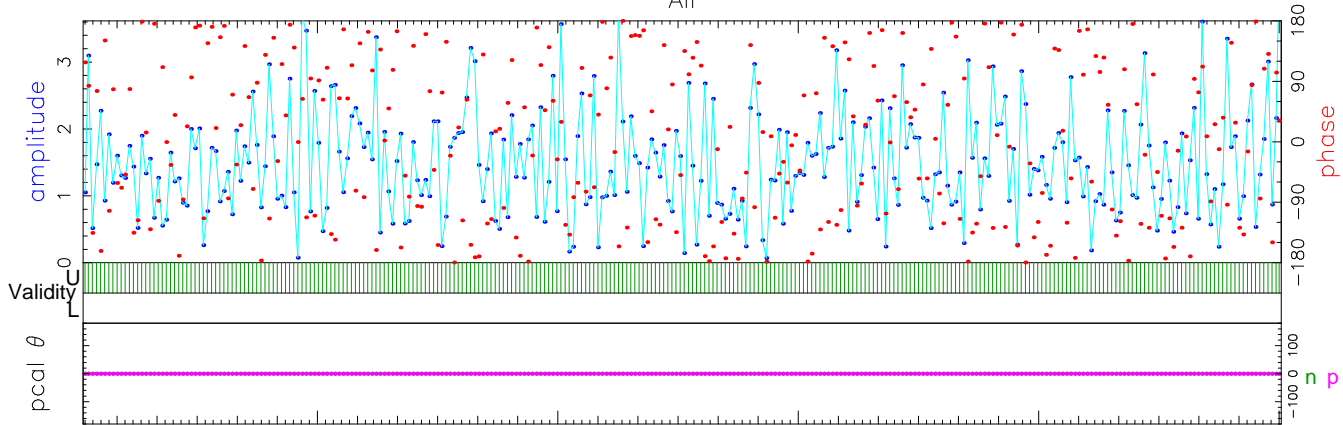
Fringe quality 8



SNR 7.6  
Int time 297.974  
Amp 1.206  
Phase 136.1  
PFD 6.5e-07  
Delays (us)  
SBD -0.573352  
MBD 0.000005  
Fringe rate (Hz)  
0.567558  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052025  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
178.5  
0.4  
1509.5  
U/L 583/0  
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

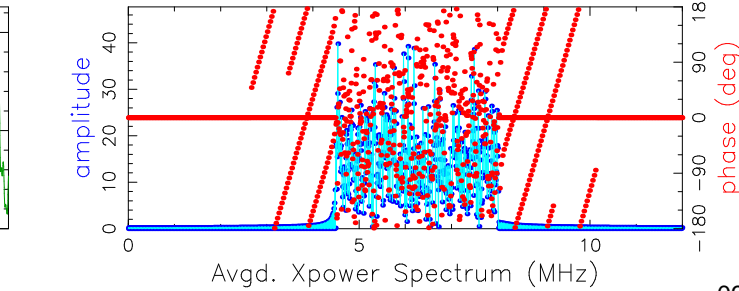
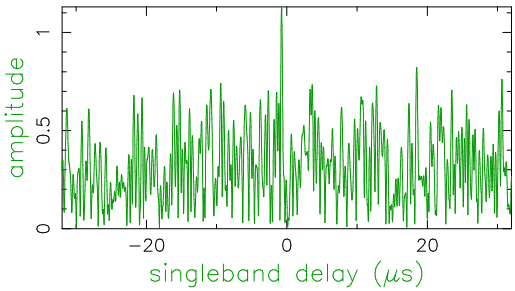
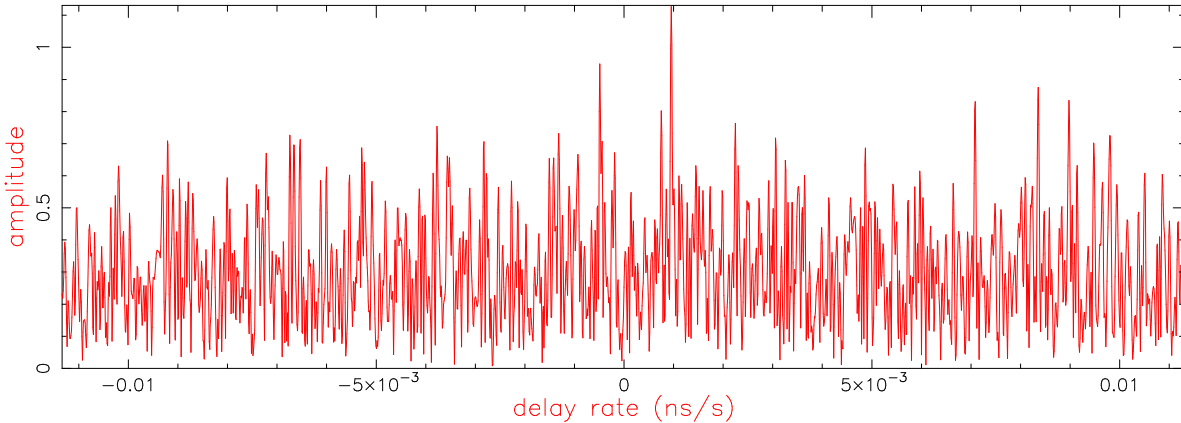
Group delay (usec)(sbd)	-1.54966703647E+03	Apriori delay (usec)	-1.54909368247E+03	Resid mbdelay (usec)	4.69663E-06	+/-	6.1E-03
Sband delay (usec)	-1.54966703447E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-5.73352E-01	+/-	6.1E-03
Phase delay (usec)	-1.54909367672E+03	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	5.75544E-06	+/-	4.9E-07
Delay rate (us/s)	-3.35514449376E-01	Apriori rate (us/s)	-3.35521038158E-01	Resid rate (us/s)	6.58878E-06	+/-	2.8E-09
Total phase (deg)	205.1	Apriori accel (us/s/s)	1.05070009117E-05	Resid phase (deg)	136.1	+/-	15.2

ph/seg (deg)	RMS 93.4	Theor. 129.6	Amplitude Search (2048X8)	1.206 +/- 0.160	1.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.7	226.2	Interp.	0.000	0.004	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.6	Inc. seg. avg.	0.486	1.193	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	13.2	Inc. frq. avg.	1.193	1.193	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 201.7 el 57.9 pa 16.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 1967.736 1053.302 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/np..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/np.W.82.1T5H2H

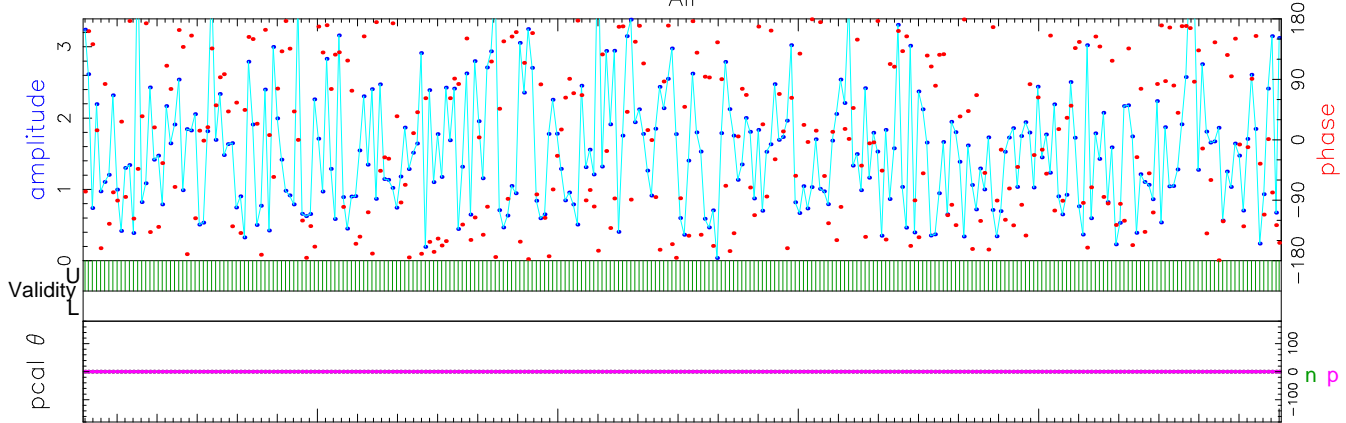


Fringe quality 8



SNR 8.1  
Int time 297.974  
Amp 1.131  
Phase 202.4  
PFD 6.1e-09  
Delays (us)  
SBD -0.747677  
MBD 0.000007  
Fringe rate (Hz)  
0.081899  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



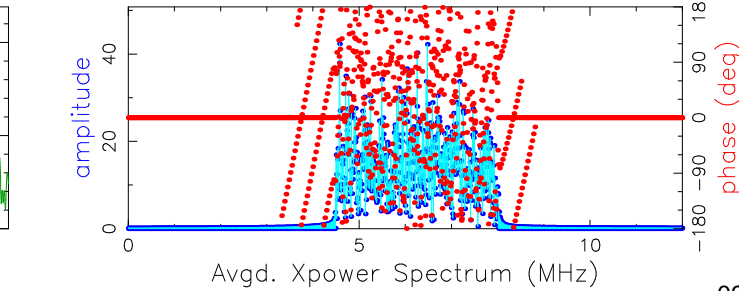
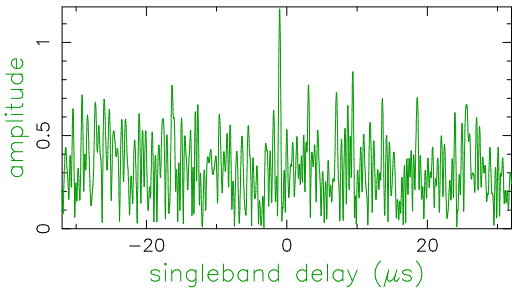
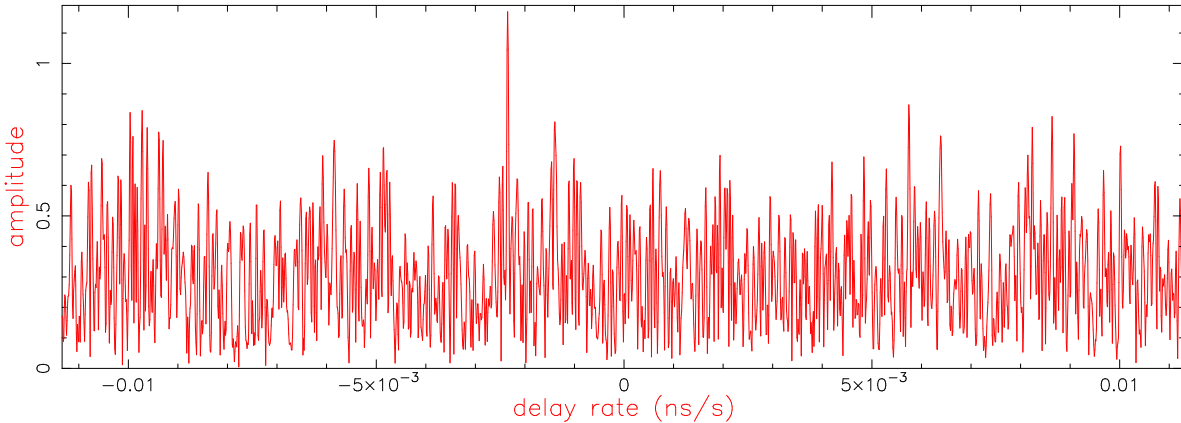
86227.00  
-175.2  
0.3  
1501.1  
U/L 583/0  
n 0  
p 0  
n:p 0:0  
n:p 0:0  
n 1000  
p 1000  
n W03UR  
p W03UR

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)	-1.54984136476E+03	Apriori delay (usec)	-1.54909368247E+03	Resid mbdelay (usec)	6.94622E-06	+/-	5.6E-03
Sband delay (usec)	-1.54984135981E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-7.47677E-01	+/-	5.6E-03
Phase delay (usec)	-1.54909368812E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.64924E-06	+/-	4.5E-07
Delay rate (us/s)	-3.35520087389E-01	Apriori rate (us/s)	-3.35521038158E-01	Resid rate (us/s)	9.50768E-07	+/-	2.6E-09
Total phase (deg)	271.5	Apriori accel (us/s/s)	1.05070009117E-05	Resid phase (deg)	202.4	+/-	14.1

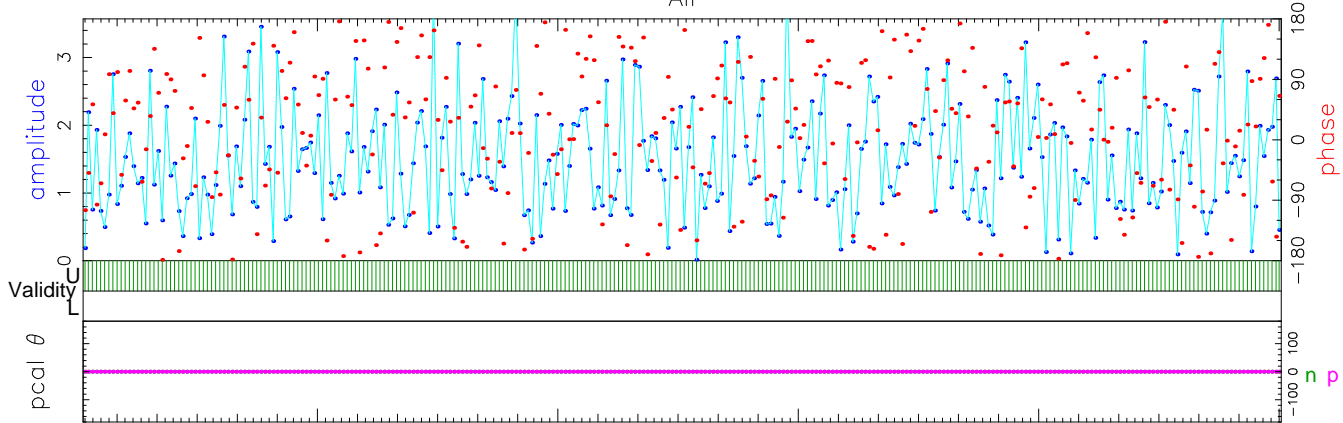
ph/seg (deg)	RMS 94.2	Theor. 120.2	Amplitude Search (2048X8)	1.131 +/- 0.139	1.118	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.9	209.7	Interp.	0.000	1.118	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.492	1.118	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.122	1.118	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 201.7 el 57.9 pa 16.3			p: az 167.6 el 66.6 pa -9.4			Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

Fringe quality 8



SNR 8.5  
Int time 297.974  
Amp 1.190  
Phase 61.2  
PFD 4.8e-10  
Delays (us)  
SBD -1.000000  
MBD -0.000005  
Fringe rate (Hz)  
-0.201791  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



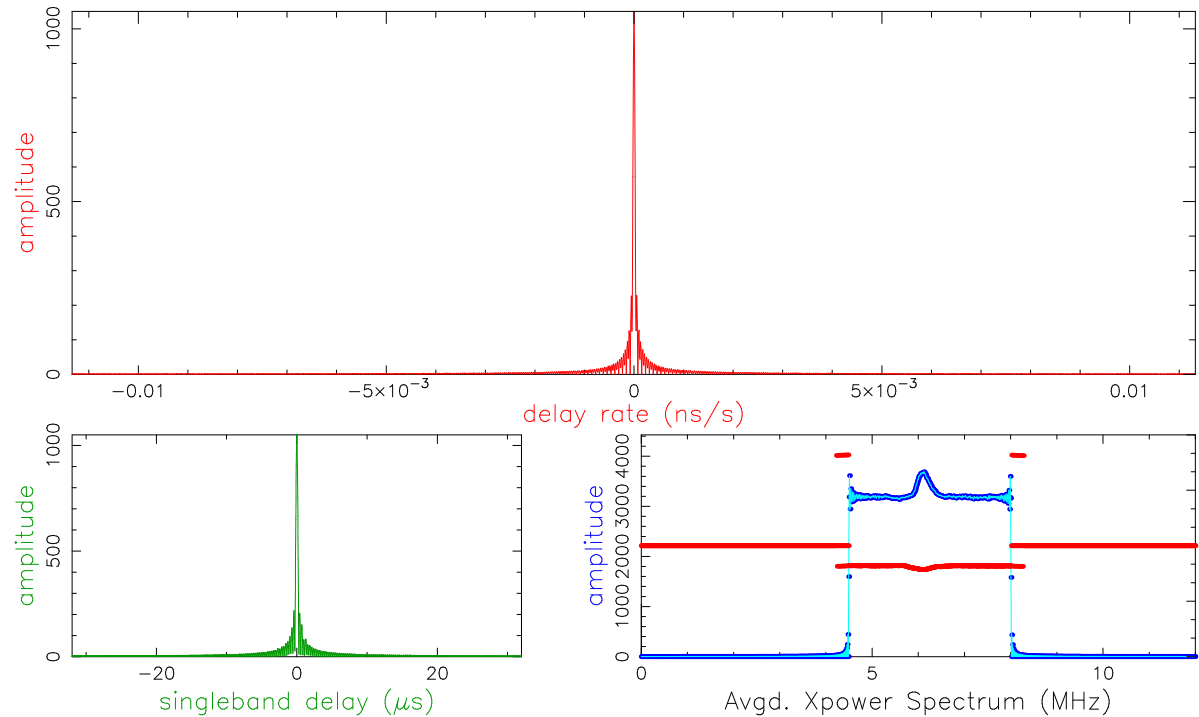
86227.00  
61.2  
0.3  
1488.0  
U/L 583/0  
n 0  
p 0  
n:p 0:0  
n:p 0:0  
n 1000  
p 1000  
n W03UL  
p W03UR

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

Group delay (usec)(sbd)	-1.55009368725E+03	Apriori delay (usec)	-1.54909368247E+03	Resid mbdelay (usec)	-4.77948E-06	+/-	5.4E-03
Sband delay (usec)	-1.55009368247E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-1.00000E+00	+/-	5.4E-03
Phase delay (usec)	-1.54909368050E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.97493E-06	+/-	4.4E-07
Delay rate (us/s)	-3.35523380755E-01	Apriori rate (us/s)	-3.35521038158E-01	Resid rate (us/s)	-2.34260E-06	+/-	2.5E-09
Total phase (deg)	130.3	Apriori accel (us/s/s)	1.05070009117E-05	Resid phase (deg)	61.2	+/-	13.6

ph/seg (deg)	RMS 90.8	Theor. 115.8	Amplitude Search (2048X8)	1.190 +/- 0.141	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.6	202.2	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	6.8	Inc. seg. avg.	0.506	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.182	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 201.7 el 57.9 pa 16.3 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 1967.736 1053.302 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/np..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/np.W.98.1T5H2H

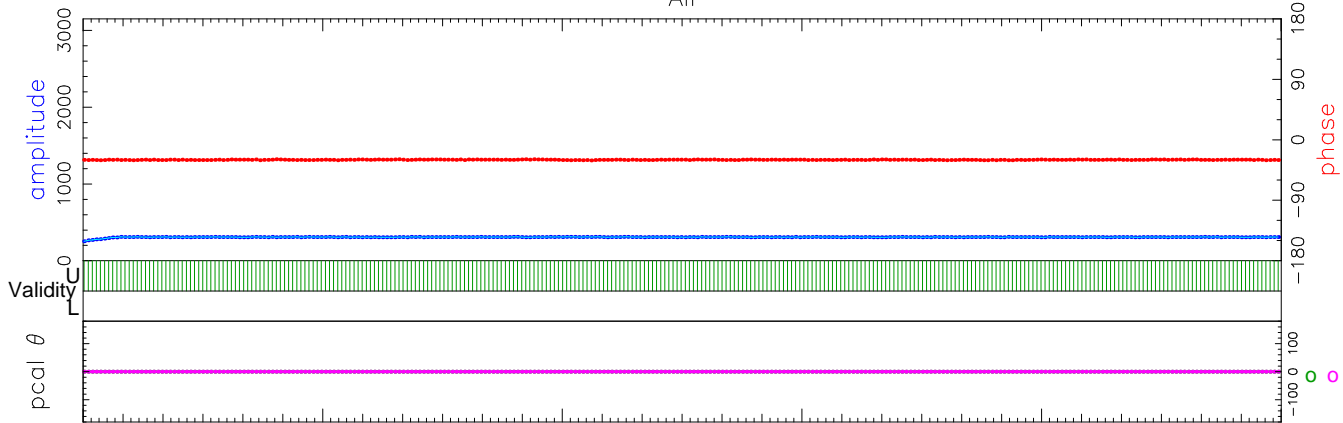


Fringe quality 5

SNR 7616.0  
Int time 299.951  
Amp 1050.385  
Phase -80.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.001603  
MBD -0.000007  
Fringe rate (Hz)  
0.000001  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

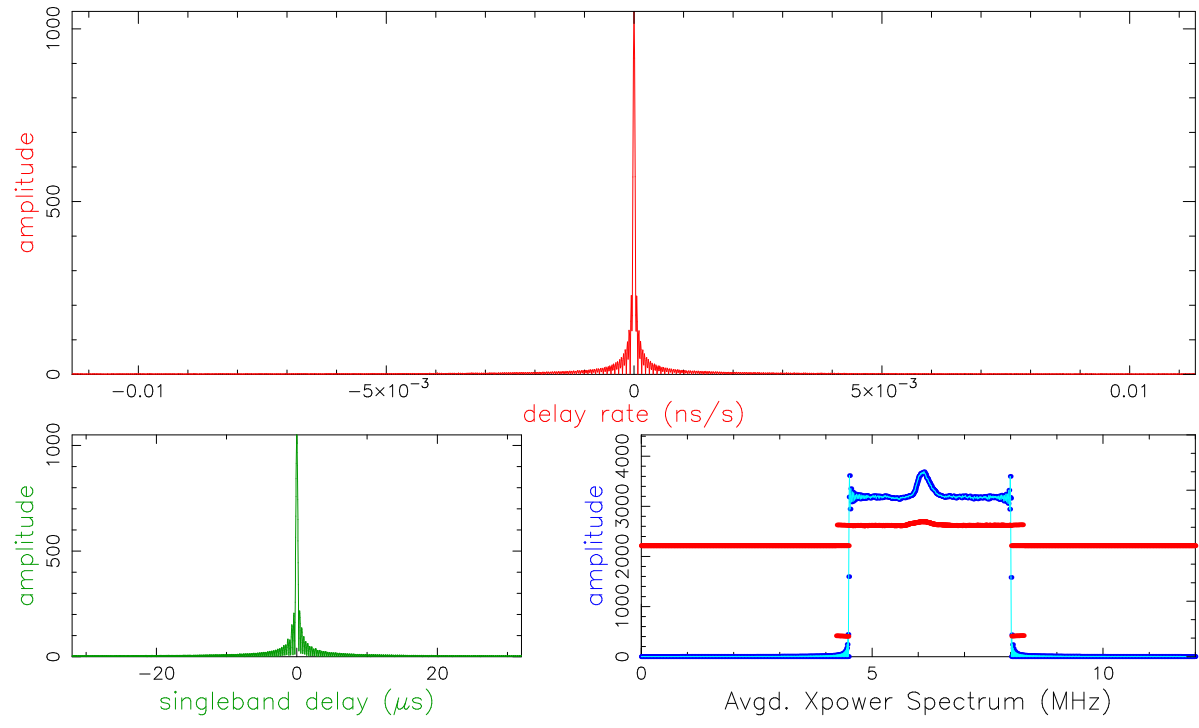


86227.00  
-29.8  
307.7  
1537.1  
U/L 586/0  
o 0  
o 0  
o:o 0:0  
o:o 0:0  
o 1000  
o 1000  
o W03UL  
o W03UR

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

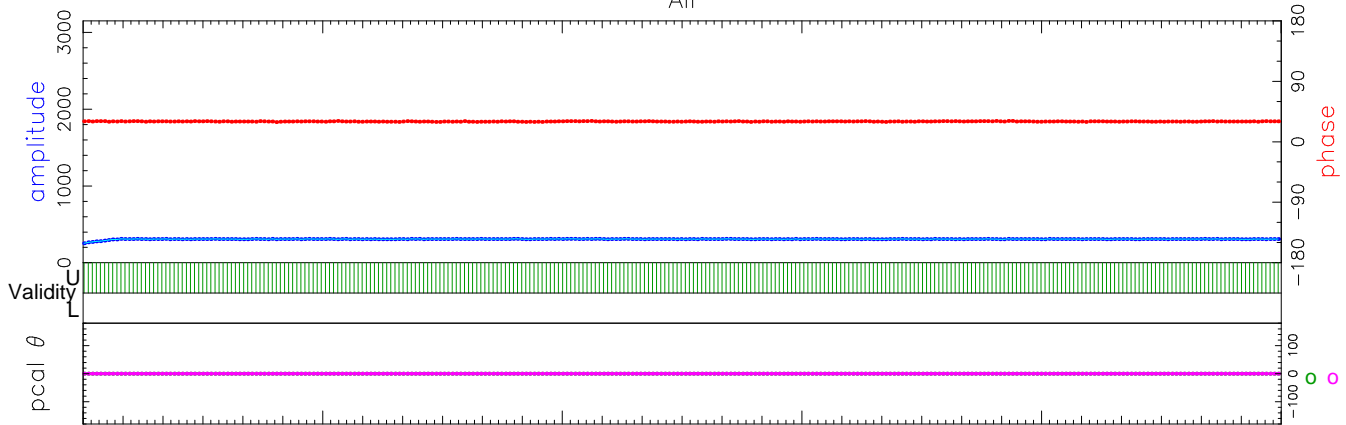
Group delay (usec)(sbd)	1.60482141325E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.20266E-06	+/- 6.0E-06
Sband delay (usec)	1.6026666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.60267E-03	+/- 6.0E-06
Phase delay (usec)	-9.60376099573E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.60376E-07	+/- 4.9E-10
Delay rate (us/s)	9.91980667418E-12	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	9.91981E-12	+/- 2.8E-12
Total phase (deg)	-80.3	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-80.3	+/- 0.0

ph/seg (deg) 0.3 0.1 Amplitude 1050.385 +/- 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. 307.717 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000  
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1050.330 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 148.4 el 60.7 pa -24.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/oo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/oo.W.102.1T5H2H



Fringe quality 5  
SNR 7616.0  
Int time 299.951  
Amp 1050.384  
Phase 80.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.001603  
MBD -0.000006  
Fringe rate (Hz)  
-0.000001  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

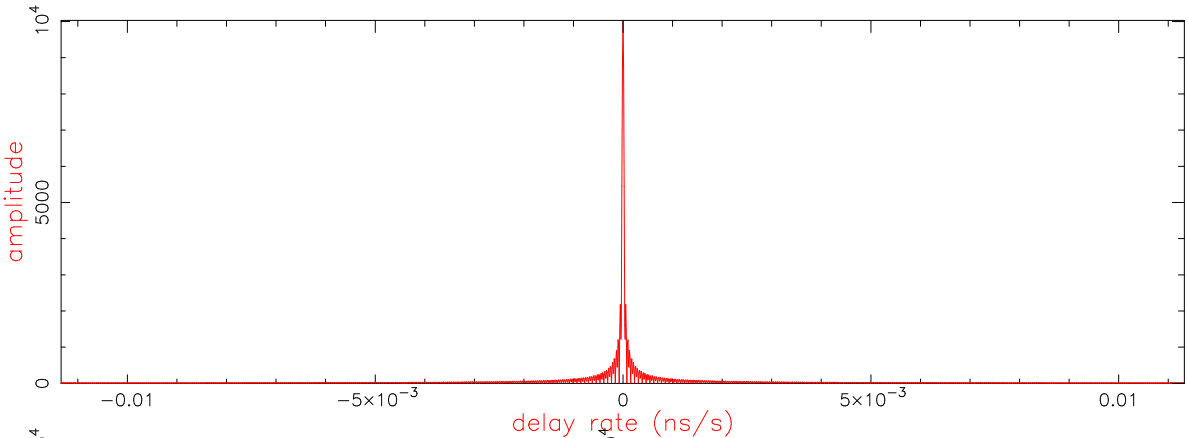


86227.00  
30.2  
307.7  
1536.9  
U/L 586/0  
o 0  
o 0  
o:o 0:0  
o:o 0:0  
o 1000  
o 1000  
o W03UR  
o W03UL

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

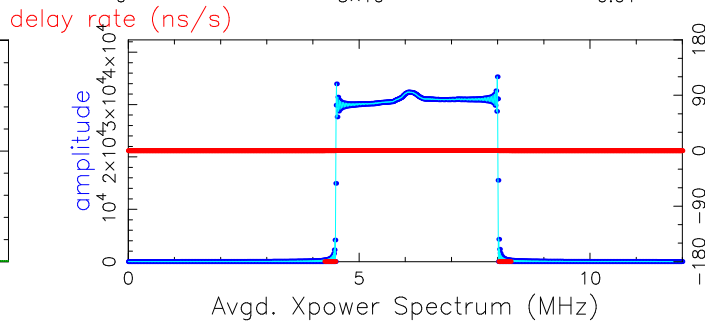
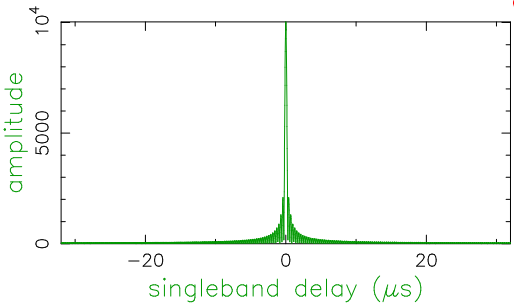
Group delay (usec)(sbd)	-1.60642954063E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.00276E-06	+/-	6.0E-06
Sband delay (usec)	-1.60266666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.60267E-03	+/-	6.0E-06
Phase delay (usec)	9.74633173185E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.74633E-07	+/-	4.9E-10
Delay rate (us/s)	-9.91980667418E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-9.91981E-12	+/-	2.8E-12
Total phase (deg)	80.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	80.3	+/-	0.0

ph/seg (deg) 0.3 0.1 Amplitude 1050.384 +/- 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. 307.717 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000  
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1050.330 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 148.4 el 60.7 pa -24.7 o: az 148.4 el 60.7 pa -24.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/oo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/oo.W.108.1T5H2H



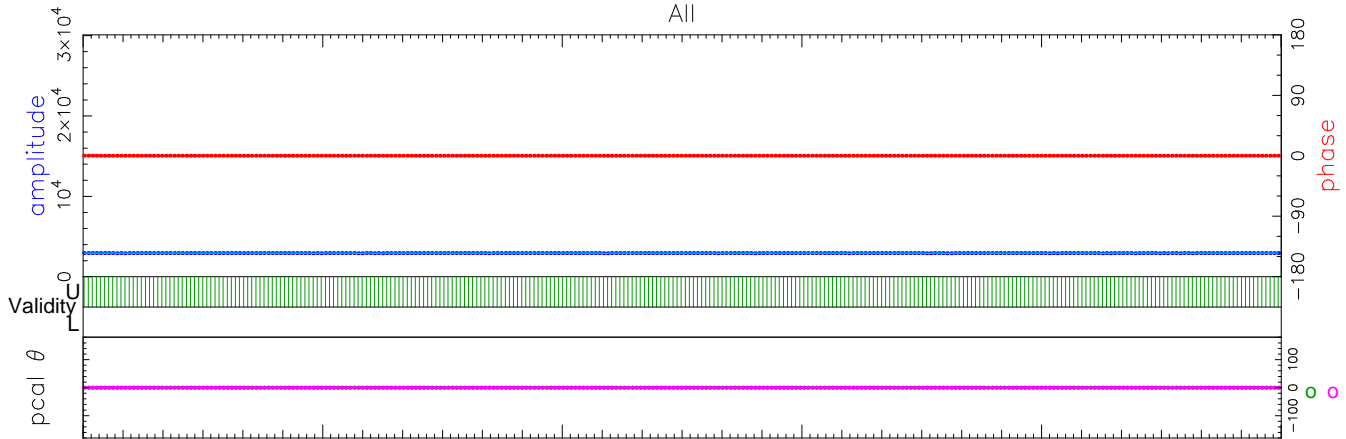
Fringe quality 5

SNR 72741.4  
Int time 299.951  
Amp 10032.361  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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

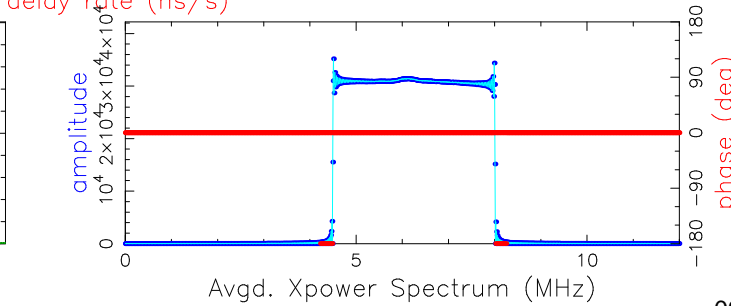
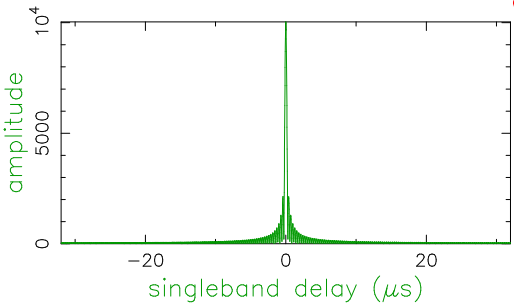
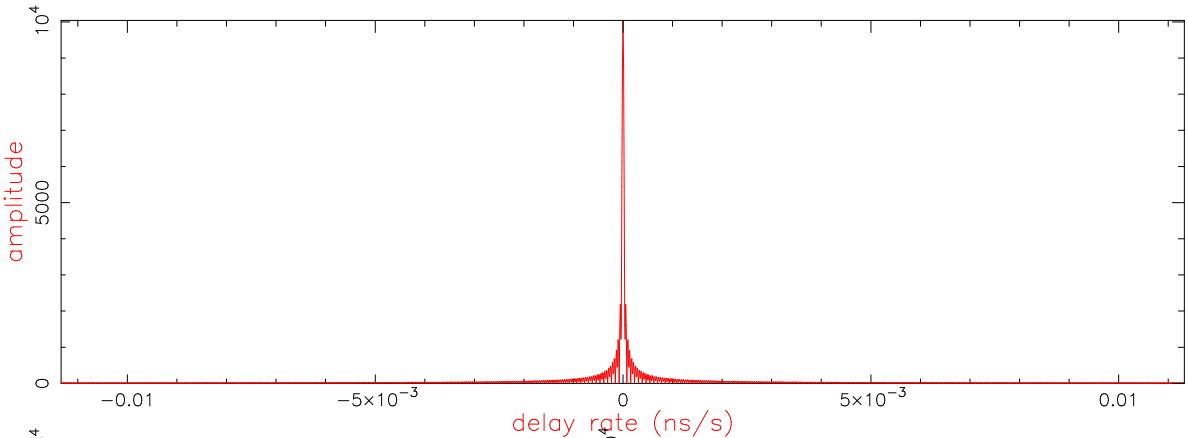


86227.00  
0.2  
2939.2  
1537.0  
U/L 586/0  
o 0  
o 0  
o:0 0:0  
o:0 0:0  
o 1000  
o 1000  
o W03UL  
o W03UL

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

Group delay (usec)(sbd)	4.34947290292E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24782E-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)	7.82502324730E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82502E-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)	-0.1	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 10032.360 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 70.7 0.0 Search (2048X8) 10032.360 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. 2939.168 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011  
o: az 148.4 el 60.7 pa -24.7 o: az 148.4 el 60.7 pa -24.7 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/No0021/oo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/oo.W.89.1T5H2H simultaneous interpolator

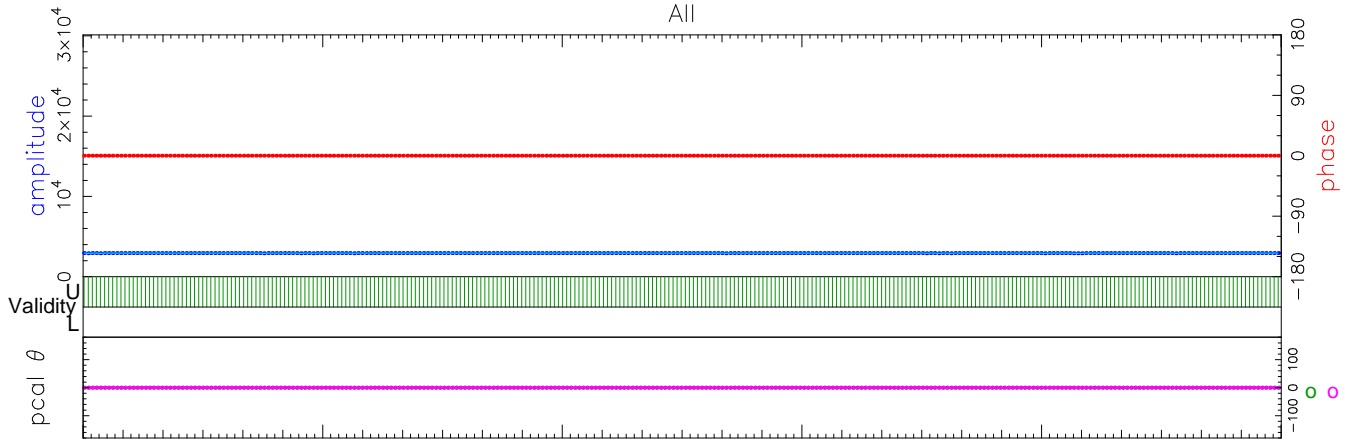


Fringe quality 5

SNR 72804.7  
Int time 299.951  
Amp 10041.085  
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 022000.00  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
2941.7  
1537.0  
U/L 586/0  
o 0  
o 0  
o:o 0:0  
o:o 0:0  
o 1000  
o 1000  
o W03UR  
o W03UR

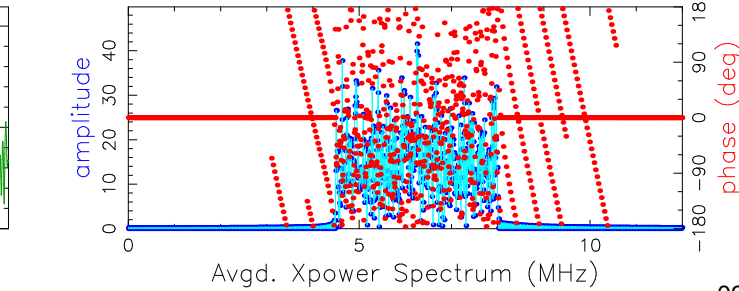
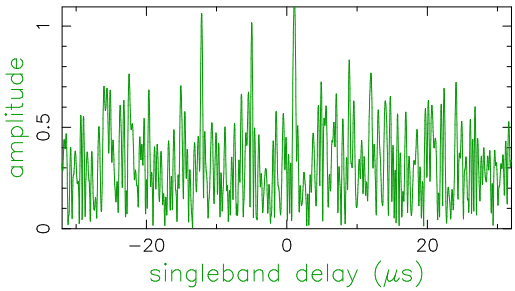
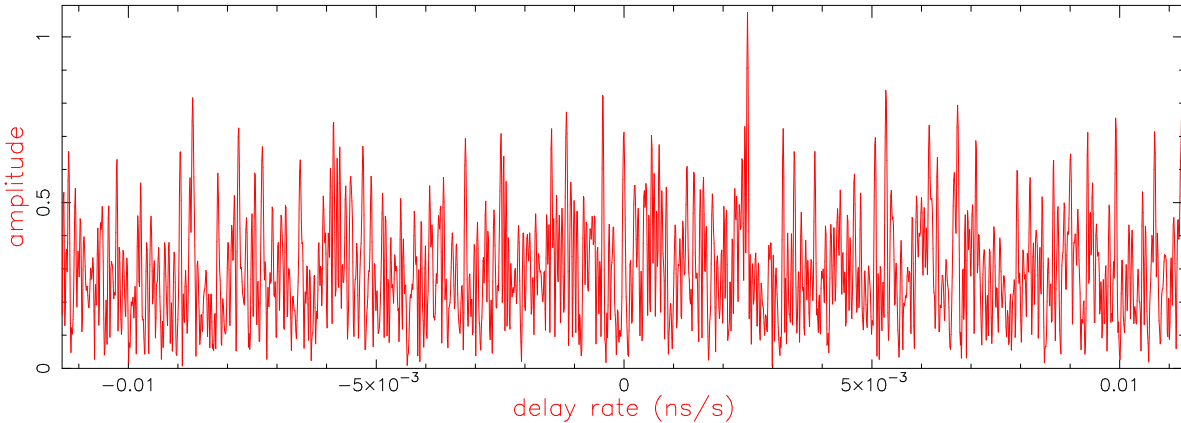
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp

Chan ids  
Chan ids

Group delay (usec)(sbd)	-5.01188722790E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.01189E-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)	5.41102289522E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.41102E-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

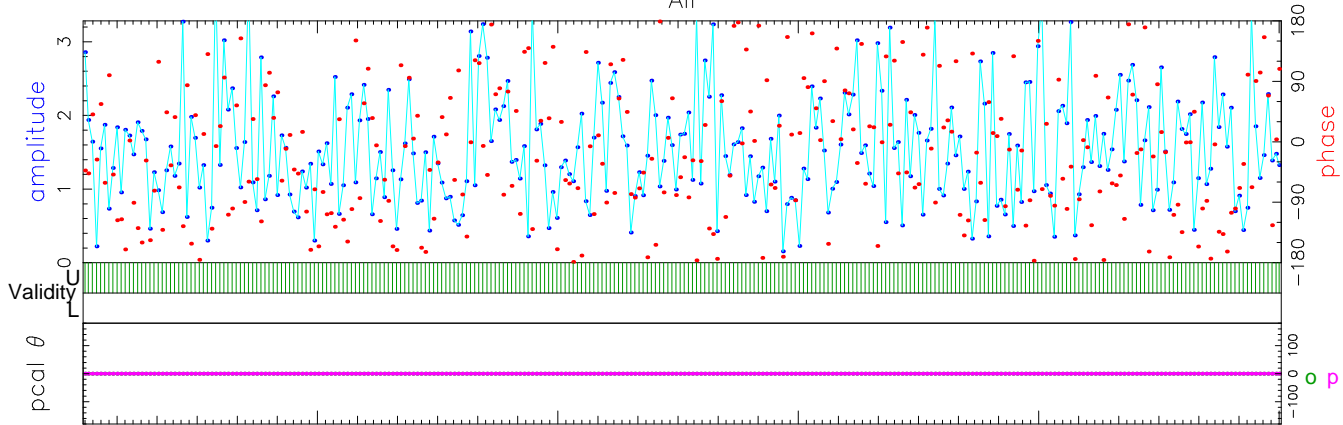
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10041.086 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 70.7 0.0 Search (2048X8) 10041.086 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000  
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2941.724 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011  
o: az 148.4 el 60.7 pa -24.7 o: az 148.4 el 60.7 pa -24.7 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/No0021/oo..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/oo.W.94.1T5H2H simultaneous interpolator

Fringe quality 8



SNR 7.8  
Int time 297.950  
Amp 1.095  
Phase -50.4  
PFD 1.4e-07  
Delays (us)  
SBD 1.000000  
MBD 0.000007  
Fringe rate (Hz)  
0.214718  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-50.8  
0.3  
1588.9  
U/L 583/0  
o 0  
p 0  
o:p 0:0  
op 0:0  
o 1000  
p 1000  
o W03UL  
p W03UR

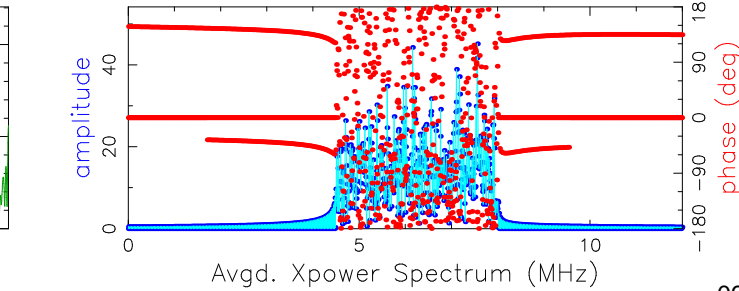
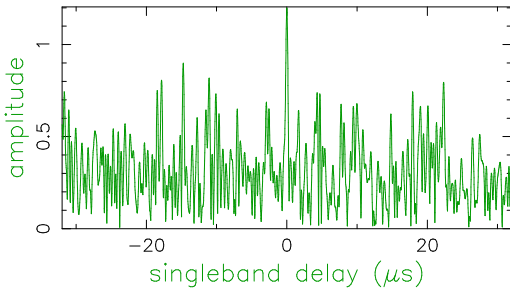
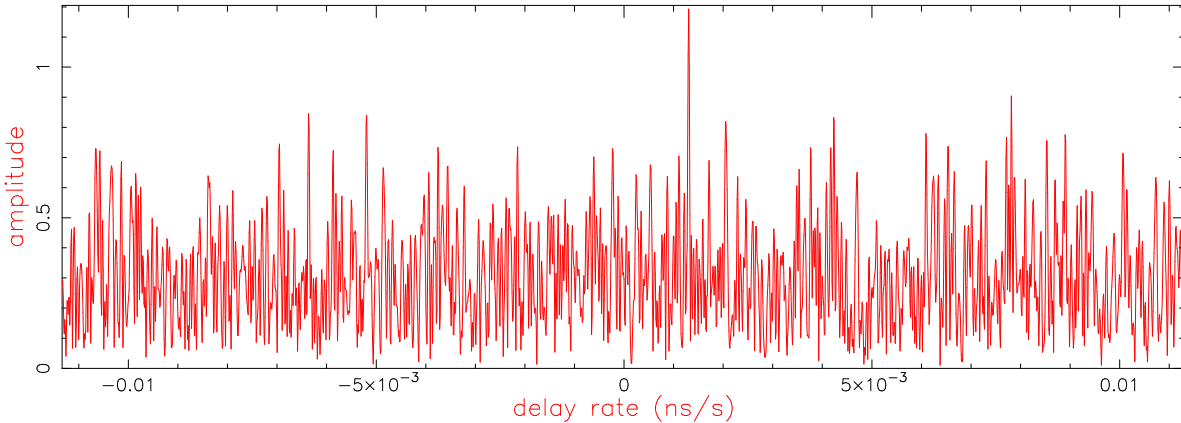
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
ManI PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-9.34778500286E+02	Apriori delay (usec)	-9.35778495931E+02	Resid mbdelay (usec)	7.24193E-06	+/-	5.9E-03
Sband delay (usec)	-9.34778495931E+02	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	1.00000E+00	+/-	5.9E-03
Phase delay (usec)	-9.35778497567E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.63662E-06	+/-	4.8E-07
Delay rate (us/s)	2.08361603835E-01	Apriori rate (us/s)	2.08359111175E-01	Resid rate (us/s)	2.49266E-06	+/-	2.8E-09
Total phase (deg)	-280.6	Apriori accel (us/s/s)	5.88375965243E-06	Resid phase (deg)	-50.4	+/-	14.8

ph/seg (deg)	RMS 93.6	Theor. 126.2	Amplitude Search (2048X8)	1.095 +/- 0.141	1.066	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.8	220.3	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	7.4	Inc. seg. avg.	0.460	0.460	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.9	Inc. frq. avg.	1.086	1.086	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
		o: az 148.4 el 60.7 pa -24.7		p: az 167.6 el 66.6 pa -9.4		Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
		u,v (fr/asec) -1212.419 453.371				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

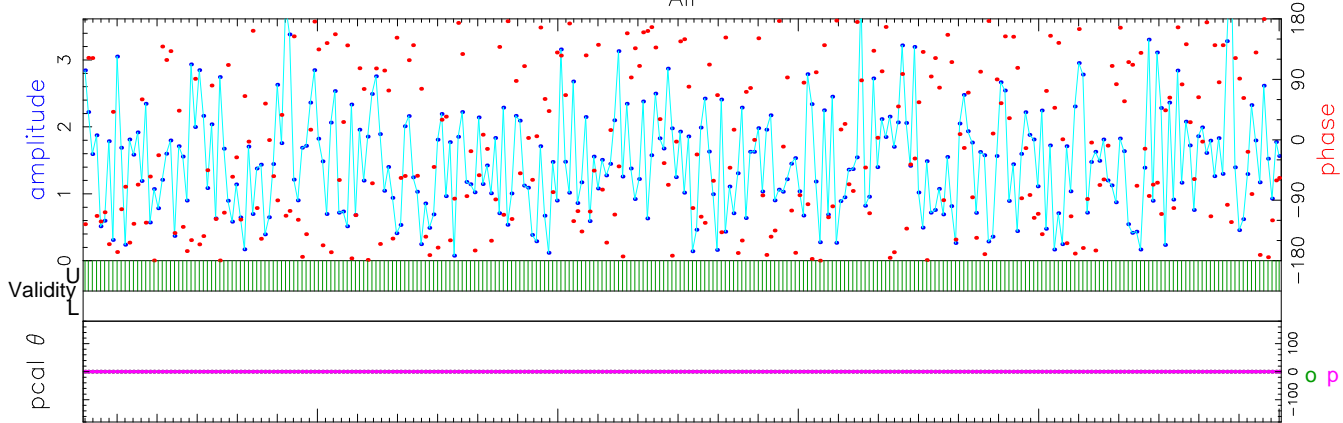
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/op..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/op.W.101.1T5H2H simultaneous interpolator

Fringe quality 8



SNR 8.7  
Int time 297.950  
Amp 1.205  
Phase -255.7  
PFD 8.2e-11  
Delays (us)  
SBD 0.003020  
MBD 0.000005  
Fringe rate (Hz)  
0.112864  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-161.2  
0.4  
1537.1  
U/L 583/0  
o 0  
p 0  
o:p 0:0  
op 0:0  
o 1000  
p 1000  
o W03UR  
p W03UL

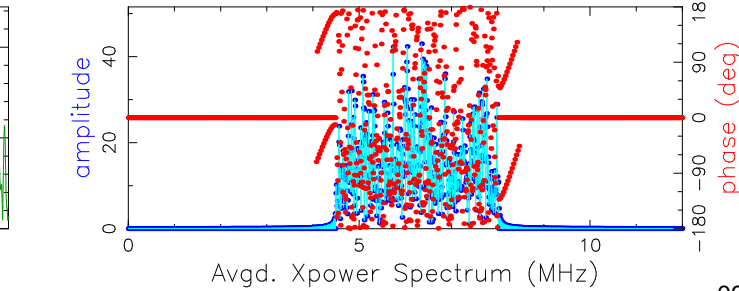
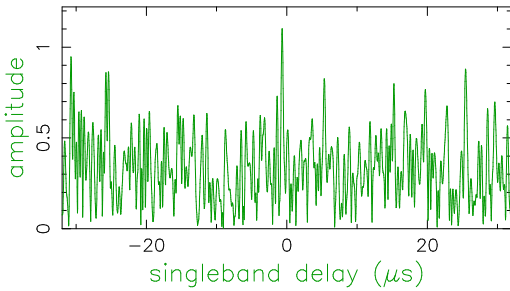
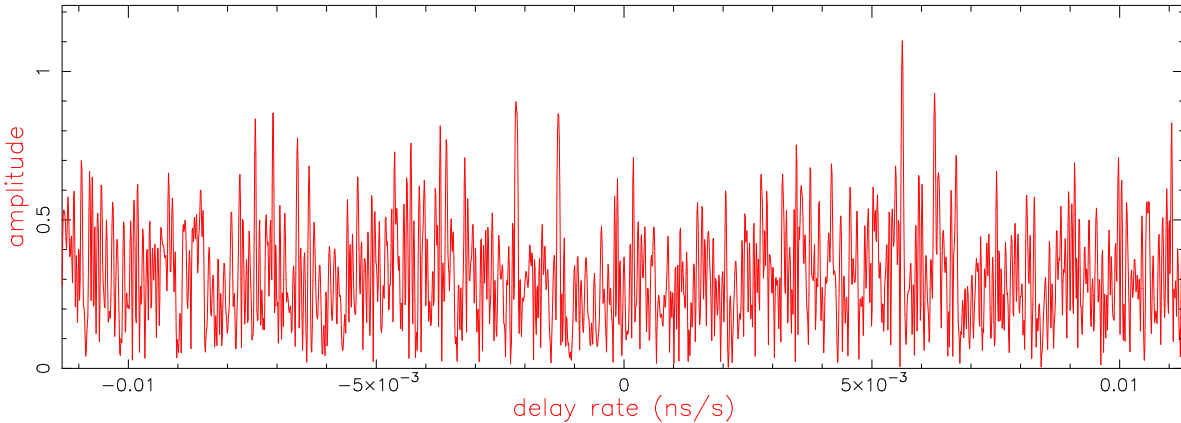
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-9.35775475885E+02	Apriori delay (usec)	-9.35778495931E+02	Resid mbdelay (usec)	4.74932E-06	+/-	5.3E-03
Sband delay (usec)	-9.35775475931E+02	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	3.02000E-03	+/-	5.3E-03
Phase delay (usec)	-9.35778501130E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.19874E-06	+/-	4.3E-07
Delay rate (us/s)	2.08360421415E-01	Apriori rate (us/s)	2.08359111175E-01	Resid rate (us/s)	1.31024E-06	+/-	2.5E-09
Total phase (deg)	-125.9	Apriori accel (us/s/s)	5.88375965243E-06	Resid phase (deg)	-255.7	+/-	13.2

ph/seg (deg)	RMS 92.3	Theor. 113.1	Amplitude Search (2048X8)	1.205 +/- 0.139	1.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.1	197.3	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.	0.508	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.5	Inc. frq. avg.	1.192	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
				o: az 148.4 el 60.7 pa -24.7	u,v (fr/asec) -1212.419 453.371	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				p: az 167.6 el 66.6 pa -9.4		nlags: 1536 t_cohere infinite	

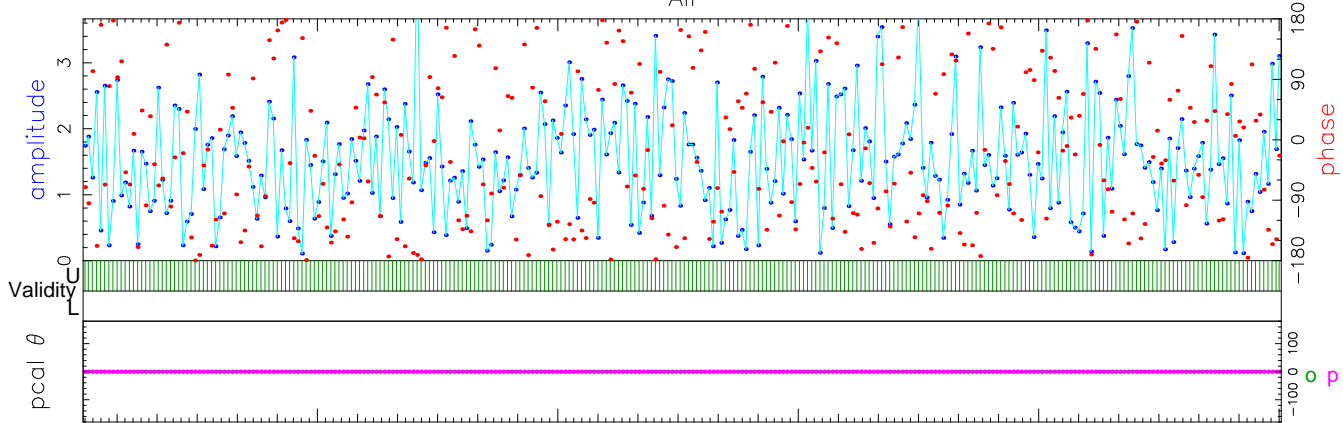


Fringe quality 8



SNR 8.0  
Int time 297.950  
Amp 1.222  
Phase 275.9  
PFD 2.6e-08  
Delays (us)  
SBD -0.668329  
MBD 0.000007  
Fringe rate (Hz)  
0.483255  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-136.5  
0.4  
1504.9  
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)	-9.36446829234E+02	Apriori delay (usec)	-9.35778495931E+02	Resid mbdelay (usec)	7.23984E-06	+/-	5.8E-03
Sband delay (usec)	-9.36446825264E+02	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-6.68329E-01	+/-	5.8E-03
Phase delay (usec)	-9.35778500332E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.40158E-06	+/-	4.6E-07
Delay rate (us/s)	2.08364721284E-01	Apriori rate (us/s)	2.08359111175E-01	Resid rate (us/s)	5.61011E-06	+/-	2.7E-09
Total phase (deg)	45.7	Apriori accel (us/s/s)	5.88375965243E-06	Resid phase (deg)	275.9	+/-	14.4

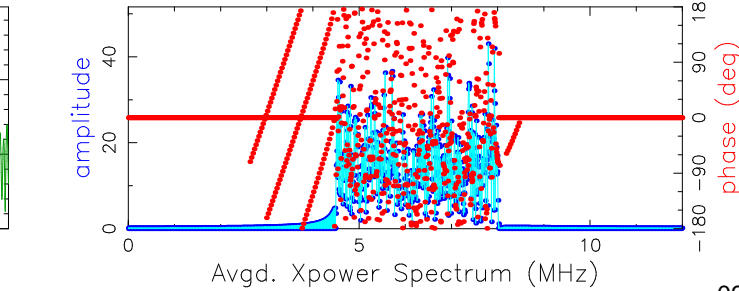
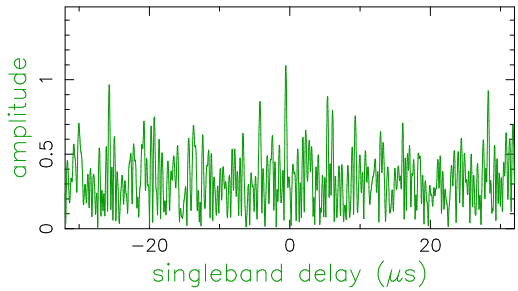
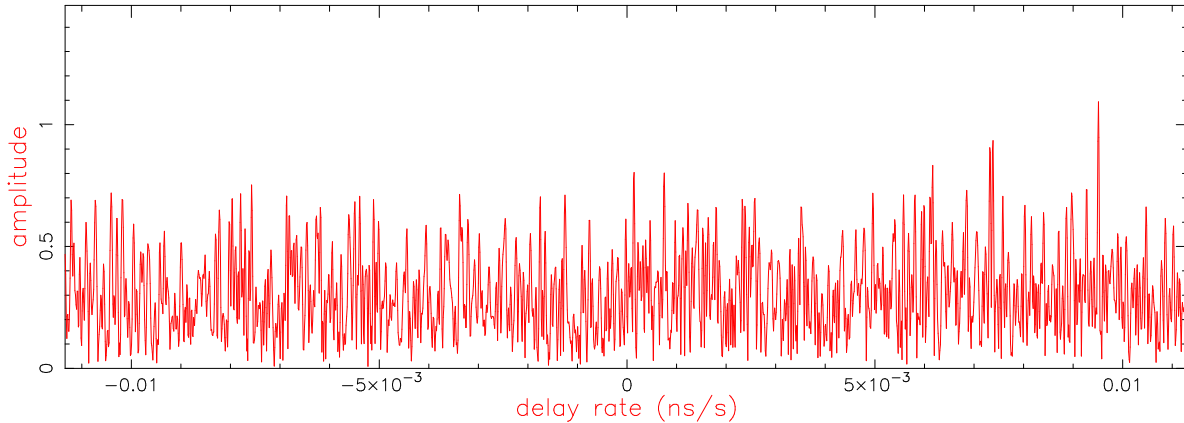
ph/seg (deg)	RMS 95.1	Theor. 122.9	Amplitude Search (2048X8)	1.222 +/- 0.153	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.4	214.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.517	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.213	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

o: az 148.4 el 60.7 pa -24.7 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1212.419 453.371 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/op..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/op.W.84.1T5H2H

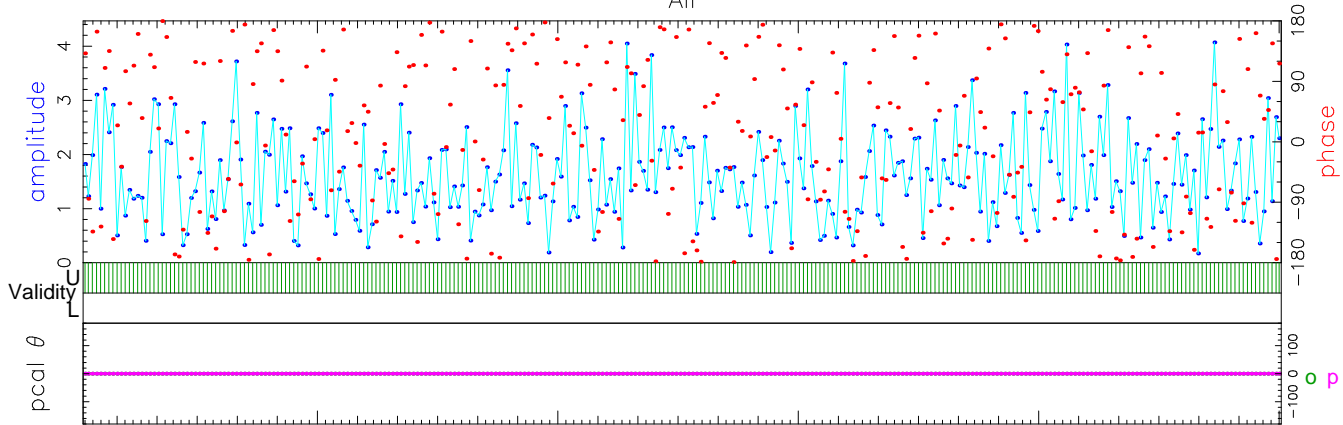
Fringe quality 8

SNR 7.9  
Int time 297.950  
Amp 1.490  
Phase 54.8  
PFD 3.9e-08  
Delays (us)  
SBD -0.571917  
MBD 0.000005  
Fringe rate (Hz)  
0.817923  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"



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



86227.00  
142.2  
0.4  
1509.5  
U/L 583/0  
o 0  
p 0  
o:p 0:0  
op 0:0  
o 1000  
p 1000  
o W03UR  
p W03UR

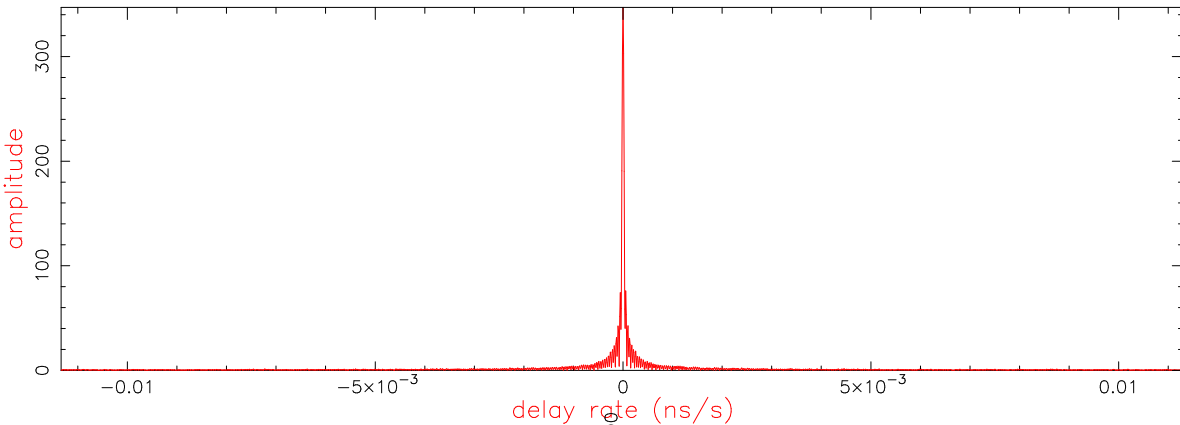
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	-9.36350411473E+02	Apriori delay (usec)	-9.35778495931E+02	Resid mbdelay (usec)	5.08583E-06	+/-	5.8E-03
Sband delay (usec)	-9.36350413264E+02	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-5.71917E-01	+/-	5.8E-03
Phase delay (usec)	-9.35778491345E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.58611E-06	+/-	4.7E-07
Delay rate (us/s)	2.08368606453E-01	Apriori rate (us/s)	2.08359111175E-01	Resid rate (us/s)	9.49528E-06	+/-	2.7E-09
Total phase (deg)	184.6	Apriori accel (us/s/s)	5.88375965243E-06	Resid phase (deg)	54.8	+/-	14.5

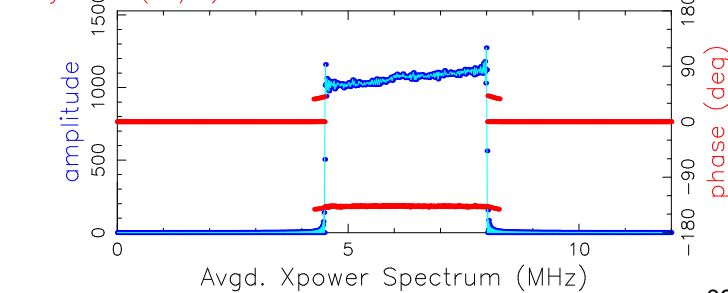
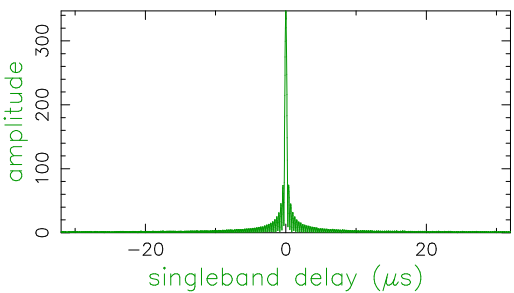
ph/seg (deg)	RMS 95.4	Theor. 123.7	Amplitude Search (2048X8)	1.490 +/- 0.188	1.069	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	89.7	215.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.660	0.660	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.475	1.475	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

o: az 148.4 el 60.7 pa -24.7 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) -1212.419 453.371 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/op..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/op.W.95.1T5H2H

Fringe quality 5

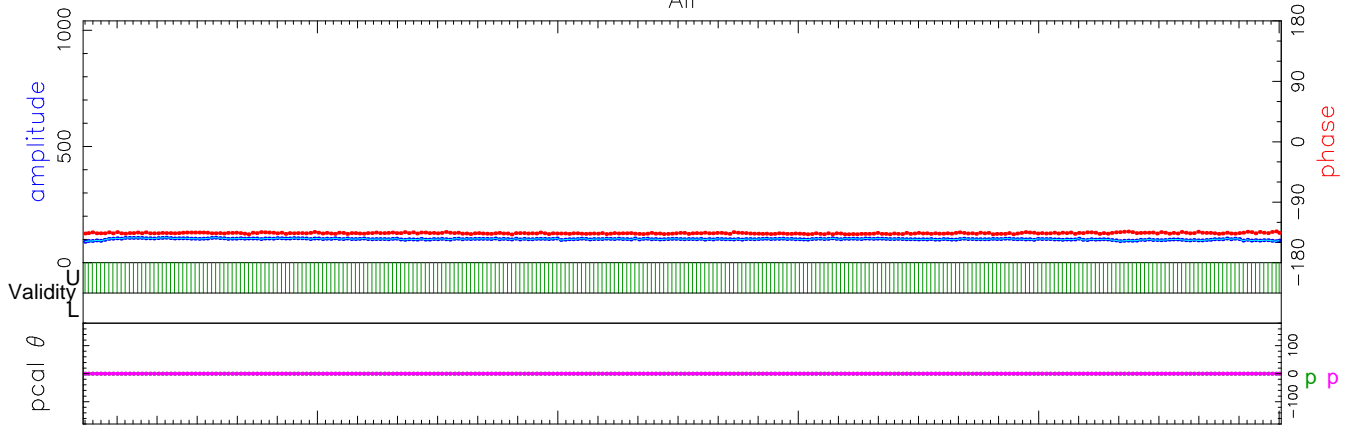


SNR 2507.9  
Int time 297.974  
Amp 347.027  
Phase -152.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.000509  
MBD -0.000007  
Fringe rate (Hz)  
0.000008  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052028  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
-136.0  
101.7  
1537.0  
U/L 583/0  
p 0  
p 0  
p:p 0:0  
p:p 0:0  
p 1000  
p 1000  
p W03UR  
p W03UL

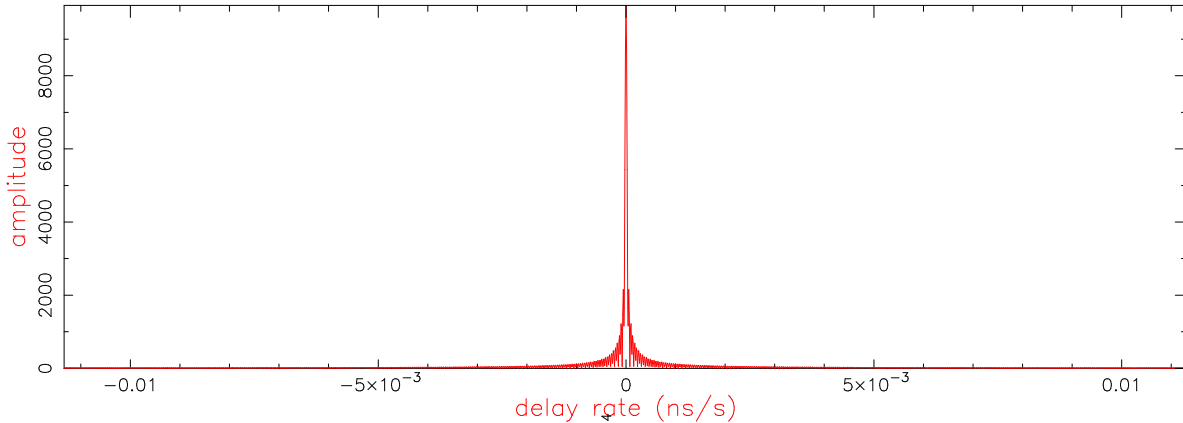
Freq (MHz)  
Phase  
Ampl.  
Sbd box  
APs used  
PC freqs  
PC freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

Group delay (usec)(sbd)	5.14634859151E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24344E-06	+/- 1.8E-05
Sband delay (usec)	5.09333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.09333E-04	+/- 1.8E-05
Phase delay (usec)	-4.38635515610E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.38636E-06	+/- 1.5E-09
Delay rate (us/s)	9.35296057851E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.35296E-11	+/- 8.5E-12
Total phase (deg)	-152.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-152.4	+/- 0.0

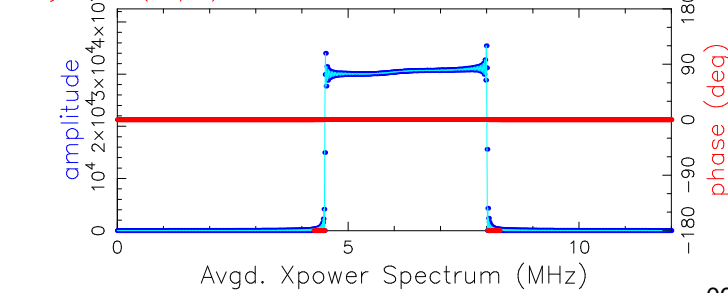
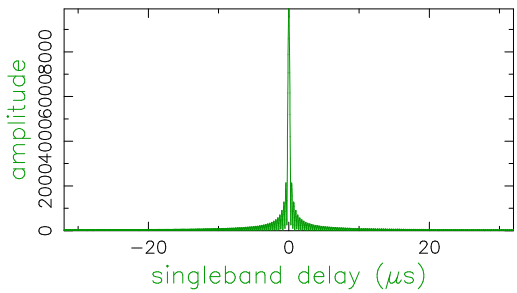
ph/seg (deg)	0.8	Theor.	0.4	Amplitude	347.027 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	101.676	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	347.025	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

p: az 167.6 el 66.6 pa -9.4 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/pp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/pp.W.105.1T5H2H

Fringe quality 5

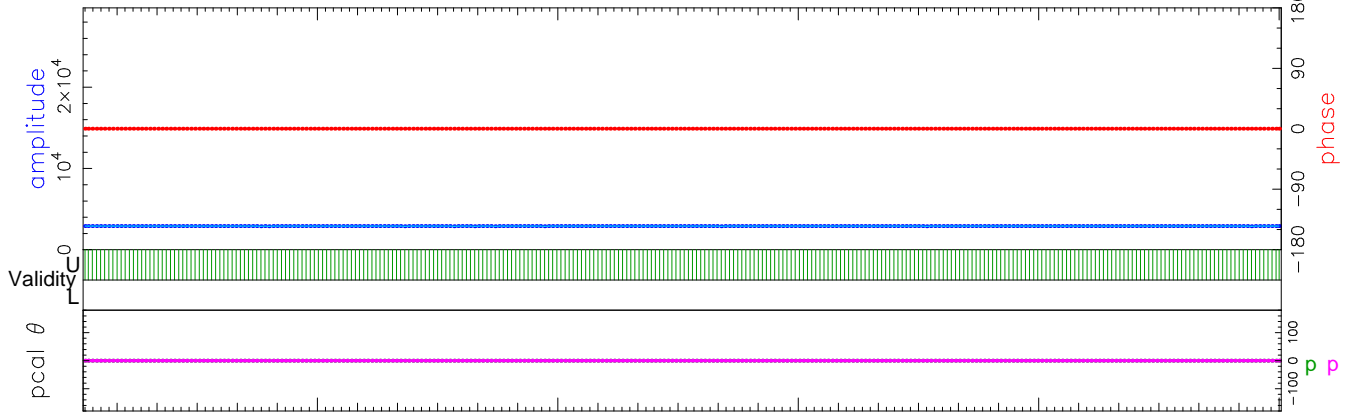


SNR 71714.9  
Int time 297.974  
Amp 9923.552  
Phase -0.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD -0.000007  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
2907.3  
1537.0  
U/L 583/0  
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

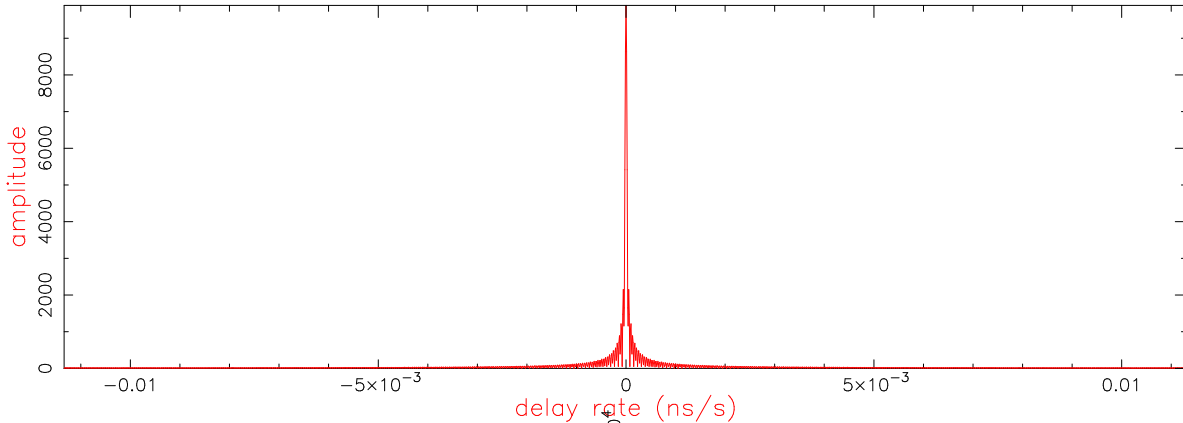
Group delay (usec)(sbd)	4.75349948392E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.84380E-06	+/- 6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.4E-07
Phase delay (usec)	7.38882087868E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.38882E-09	+/- 5.2E-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	9923.553 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	9923.552	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.	2907.290	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9923.552	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
p: az 167.6 el 66.6 pa -9.4		p: az 167.6 el 66.6 pa -9.4		u,v (fr/asec) 0.000 0.000		nlags: 1536 t_cohere infinite	

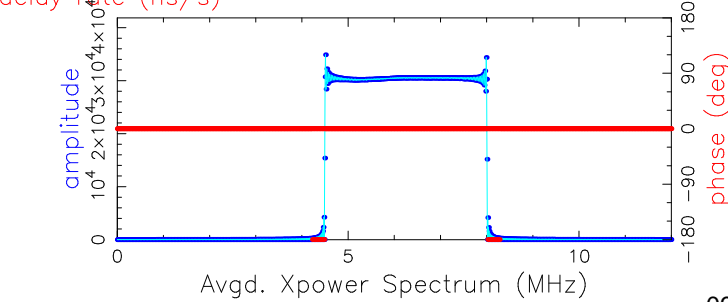
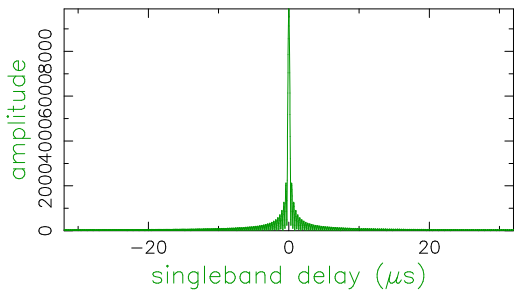
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/pp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/pp.W.87.1T5H2H

simultaneous interpolator

Fringe quality 5

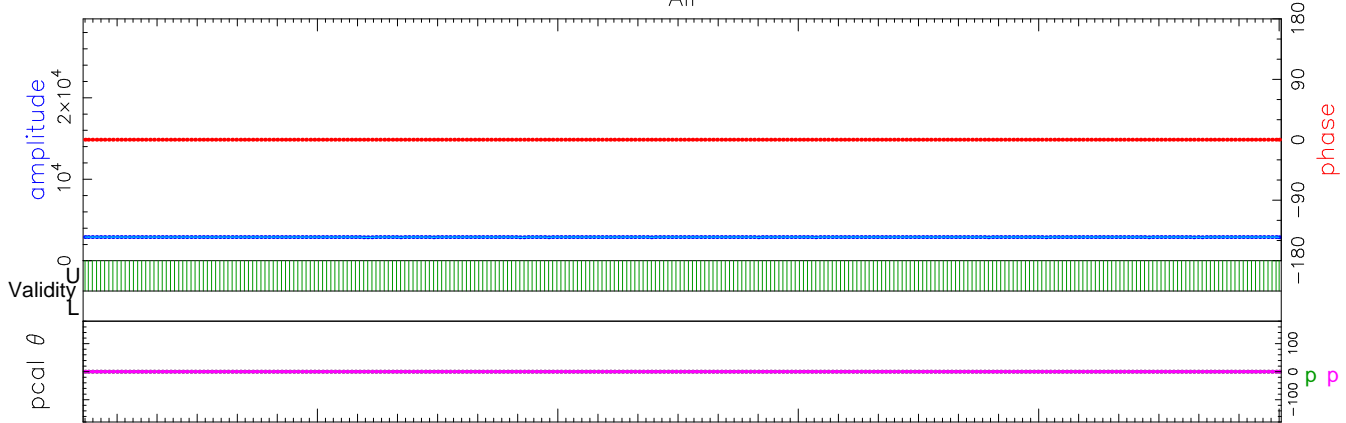


SNR 71519.7  
Int time 297.974  
Amp 9896.530  
Phase -0.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD -0.000006  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052026  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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  
2899.4  
1537.0  
U/L 583/0  
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 freqs  
PC phase  
Manl PC  
PC amp  
Chan ids  
Chan ids

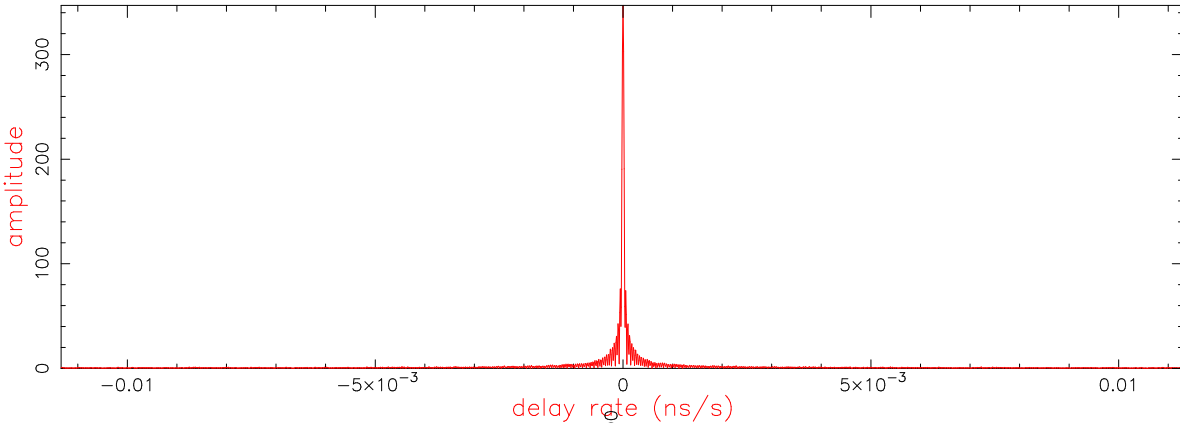
Group delay (usec)(sbd)	5.34635323043E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.25094E-06	+/- 6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.4E-07
Phase delay (usec)	6.74875356471E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.74875E-09	+/- 5.2E-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

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9896.530 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9896.530	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.	2899.374	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9896.530	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

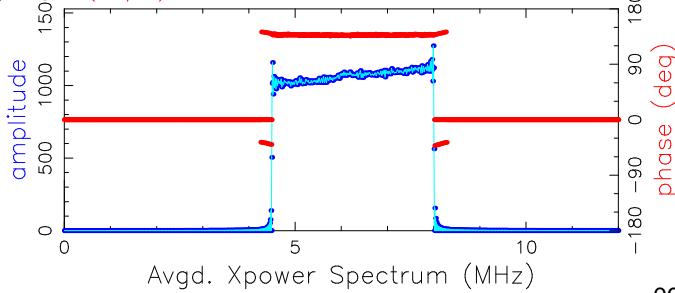
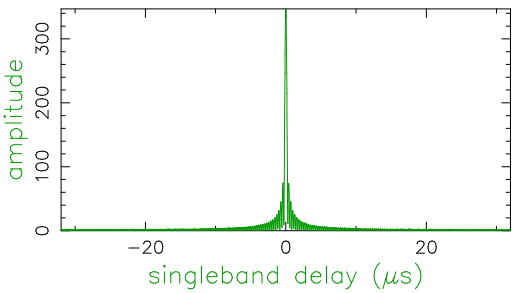
p: az 167.6 el 66.6 pa -9.4 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/pp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/pp.W.92.1T5H2H

Fringe quality 5

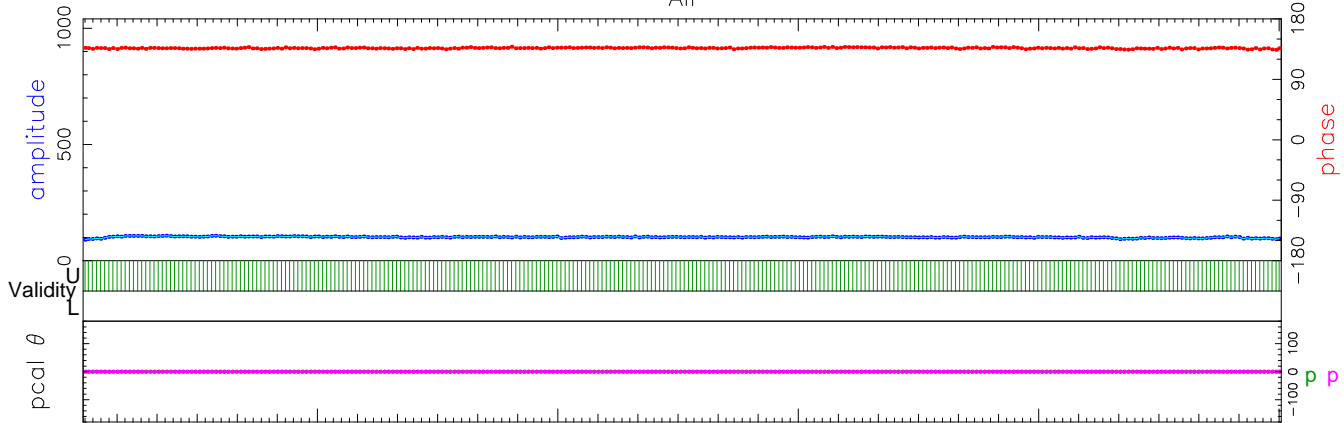


SNR 2507.9  
Int time 297.974  
Amp 347.027  
Phase 152.1  
PFD 0.0e+00  
Delays (us)  
SBD -0.000509  
MBD -0.000005  
Fringe rate (Hz)  
-0.000008  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211d  
Exper # 16383  
Yr:day 2021:117  
Start 022001.54  
Stop 022500.03  
FRT 022230.00  
Corr/FF/build  
2021:228:045113  
2021:228:052027  
2021:057:122453  
RA & Dec (J2000)  
09h47m33.428799s  
+11°25'42.691284"

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



86227.00  
136.4  
101.7  
1537.0  
U/L 583/0  
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)	-5.04044533615E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.36083E-06	+/- 1.8E-05
Sband delay (usec)	-5.09333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.09333E-04	+/- 1.8E-05
Phase delay (usec)	4.39996319759E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.39996E-06	+/- 1.5E-09
Delay rate (us/s)	-9.35296057851E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-9.35296E-11	+/- 8.5E-12
Total phase (deg)	152.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	152.1	+/- 0.0

ph/seg (deg)	0.8	Theor.	0.4	Amplitude	347.027 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	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	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	101.676	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	347.025	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 167.6 el 66.6 pa -9.4 p: az 167.6 el 66.6 pa -9.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva\_line Input file: /Exps/c211d/v1/LINES1/1234/No0021/pp..1T5H2H Output file: /Exps/c211d/v1/LINES1/1234/No0021/pp.W.99.1T5H2H