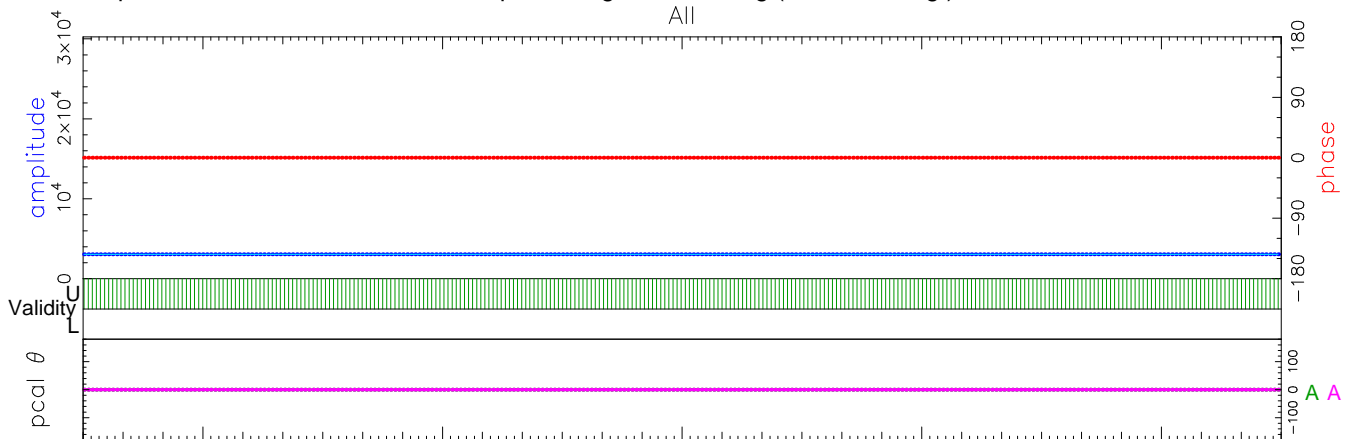


Fringe quality 5

SNR 47214.0
Int time 299.985
Amp 10087.277
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 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

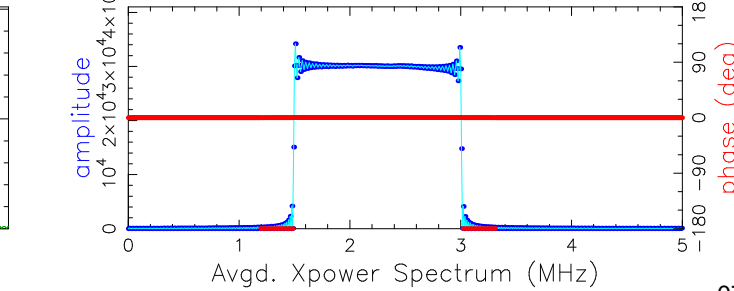
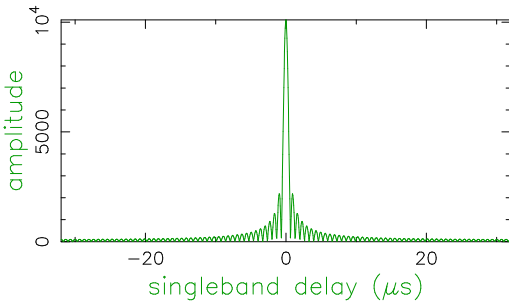
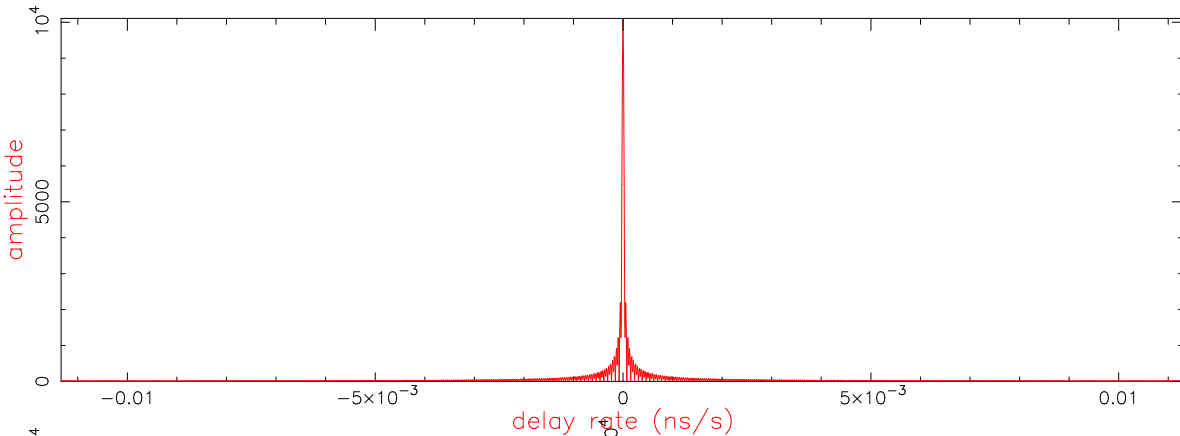
Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



| | 86231.00 | 0.2 | 3057.7 | 641.0 | U/L 586/0 | A 0 | A 0 | A:A 0:0 | A:A 0:0 | A 1000 | A 1000 | A W00UX | A W00UX | |
|--|----------|-----|--------|-------|-----------|-----|-----|---------|---------|--------|--------|---------|---------|------------|
| | | | | | | | | | | | | | | 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) | 4.71988032146E-06 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | -6.87688E-06 | +/- | 2.3E-06 |
|-------------------------|-------------------|--------------------------|-------------------|----------------------|--------------|-----|---------|
| Sband delay (usec) | 0.00000000000E+00 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 0.00000E+00 | +/- | 2.3E-06 |
| Phase delay (usec) | 7.46445345425E-09 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 7.46445E-09 | +/- | 7.8E-11 |
| Delay rate (us/s) | 0.00000000000E+00 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | 0.00000E+00 | +/- | 4.5E-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 | 10087.276 +/- 0.214 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 | | |
|--------------|------|--------|-----|-----------------|---------------------|------------------------|-----------------------------|----------------------|-------------------|------------------|-----------|
| amp/seg (%) | 69.7 | 0.0 | 0.0 | Search (2048X8) | 10087.276 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 32.000 | | |
| ph/frq (deg) | 0.0 | 0.0 | 0.0 | Interp. | 0.000 | Bits/sample: | 2x2 | SampCntNorm: enabled | mb window (us) | -0.000 0.000 | |
| amp/frq (%) | 69.7 | 0.0 | 0.0 | Inc. seg. avg. | 3057.705 | Sample rate(MISamp/s): | 10 | dr window (ns/s) | -0.011 0.011 | | |
| | | | | Inc. frq. avg. | 10087.276 | Data rate(Mb/s): | 20 | nlags: 640 | t_cohere infinite | ion window (TEC) | 0.00 0.00 |

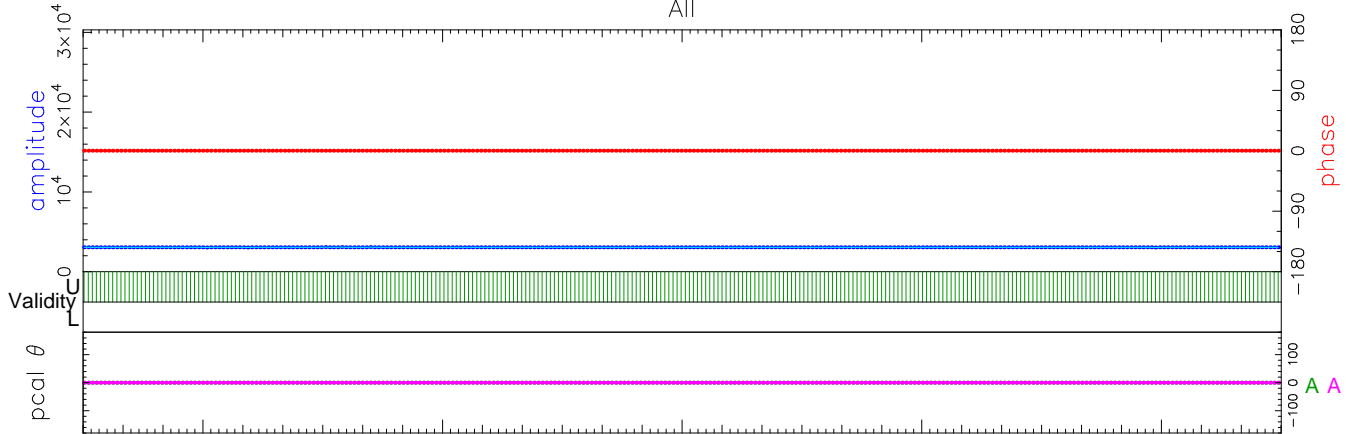


Fringe quality 5

SNR 47302.6
Int time 299.985
Amp 10106.196
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 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134112
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



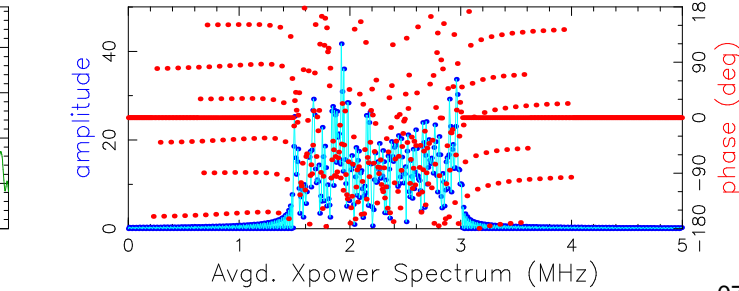
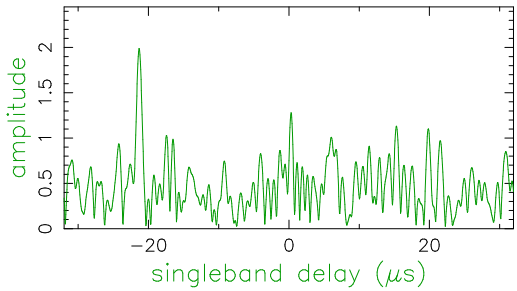
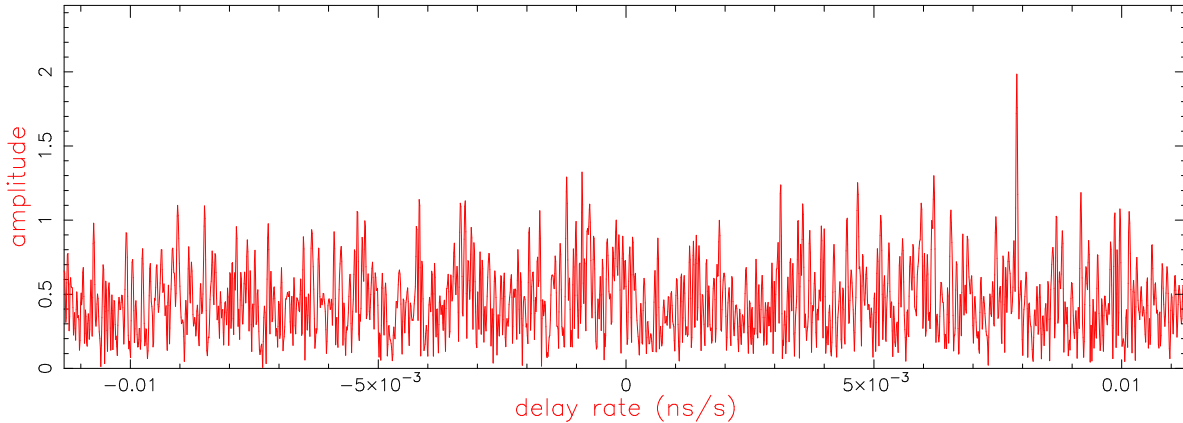
86231.00
0.2
3063.4
641.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W00UY
A W00UY

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) | 4.34993215897E-06 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | -7.24683E-06 | +/- 2.3E-06 |
| Sband delay (usec) | 0.00000000000E+00 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 0.00000E+00 | +/- 2.3E-06 |
| Phase delay (usec) | 7.86601083983E-09 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 7.86601E-09 | +/- 7.8E-11 |
| Delay rate (us/s) | 0.00000000000E+00 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | 0.00000E+00 | +/- 4.5E-13 |
| Total phase (deg) | -0.1 | Apriori accel (us/s/s) | 0.00000000000E+00 | Resid phase (deg) | -0.1 | +/- 0.0 |

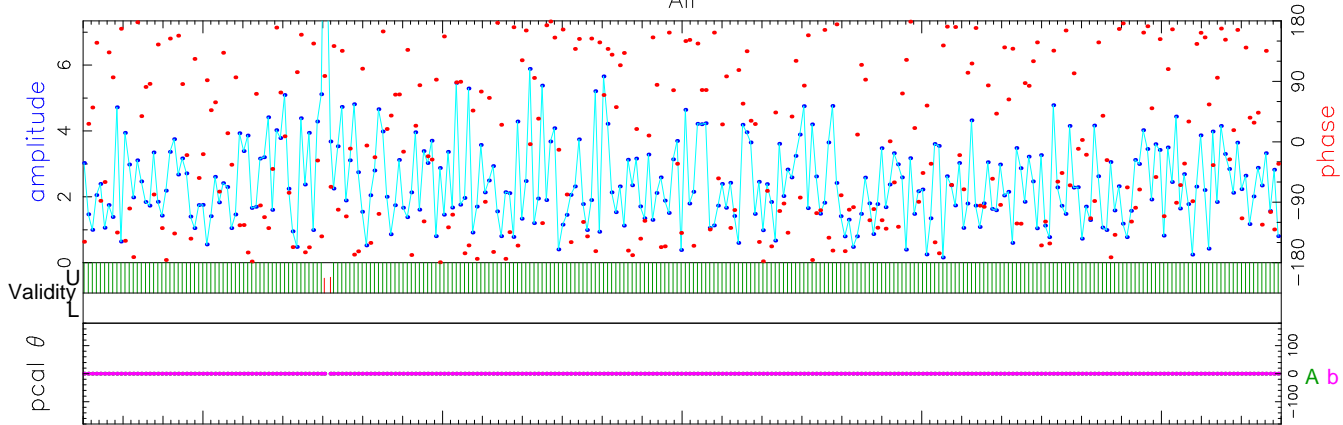
| | | | | | | | | |
|------------------------------|------|--------|-----|---------------------------|---------------------|--|-------------------------------|---------------------------|
| ph/seg (deg) | 0.0 | Theor. | 0.0 | Amplitude | 10106.196 +/- 0.214 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | |
| amp/seg (%) | 69.7 | | 0.0 | Search (2048X8) | 10106.196 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 | |
| ph/frq (deg) | 0.0 | | 0.0 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | |
| amp/frq (%) | 69.7 | | 0.0 | Inc. seg. avg. | 3063.440 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 | |
| | | | | Inc. frq. avg. | 10106.196 | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 | |
| A: az 252.8 el 31.3 pa 102.4 | | | | u,v (fr/asec) 0.000 0.000 | | | | simultaneous interpolator |

Fringe quality 8



SNR 9.3
Int time 298.280
Amp 2.449
Phase 159.8
PFD 3.8e-12
Delays (us)
SBD -21.317814
MBD 0.000006
Fringe rate (Hz)
0.678561
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-172.1
0.7
214.6
U/L 584/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W00UX
b W01UL

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) | 3.14116305358E+03 | Apriori delay (usec) | 3.16248086822E+03 | Resid mbdelay (usec) | 6.09229E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | 3.14116305382E+03 | Apriori clock (usec) | -2.1046155E-03 | Resid sbdelay (usec) | -2.13178E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | 3.16248086267E+03 | Apriori clockrate (us/s) | -1.1300001E-06 | Resid phdelay (usec) | -5.54912E-06 | +/- | 4.0E-07 |
| Delay rate (us/s) | -9.49882300923E-01 | Apriori rate (us/s) | -9.49890178340E-01 | Resid rate (us/s) | 7.87742E-06 | +/- | 2.3E-09 |
| Total phase (deg) | 155.6 | Apriori accel (us/s/s) | 2.76651345738E-05 | Resid phase (deg) | 159.8 | +/- | 12.3 |

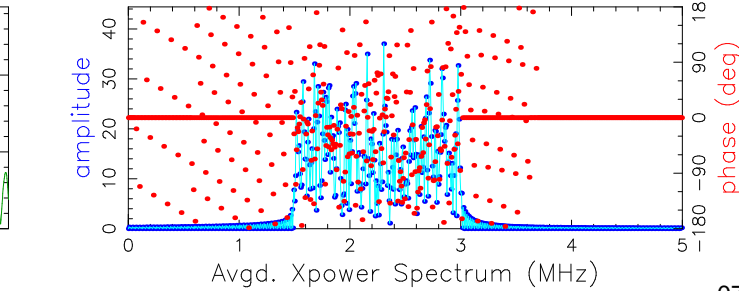
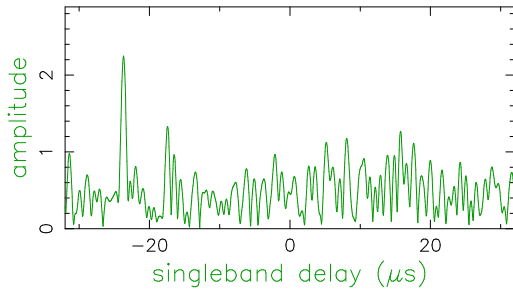
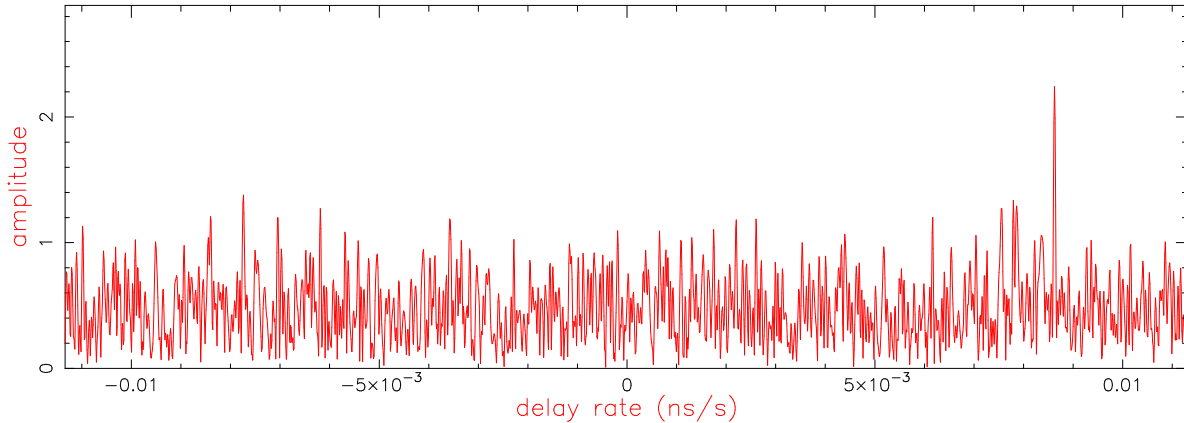
| | | | | | | | | | | |
|--------------|----------|--------------|---------------------------|---------------------------|---------------------------|--|-------------------|------------------|--------|------|
| ph/seg (deg) | RMS 90.3 | Theor. 105.4 | Amplitude 2.449 +/- 0.264 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 | 32.000 | |
| amp/seg (%) | 65.7 | 183.9 | Search (2048X8) | 1.935 | SampCntNorm: enabled | mb window (us) | -0.000 | 0.000 | | |
| ph/frq (deg) | 0.0 | 6.2 | Inc. seg. avg. | 1.103 | Sample rate(MISamp/s): 10 | dr window (ns/s) | -0.011 | 0.011 | | |
| amp/frq (%) | 69.8 | 10.8 | Inc. frq. avg. | 2.428 | Data rate(Mb/s): 20 | nlags: 640 | t_cohere infinite | ion window (TEC) | 0.00 | 0.00 |

A: az 252.8 el 31.3 pa 102.4 b: az 192.2 el 15.1 pa 9.0 u,v (fr/asec) 6095.808 -10043.795 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ab..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ab.W.1.1SJ65A

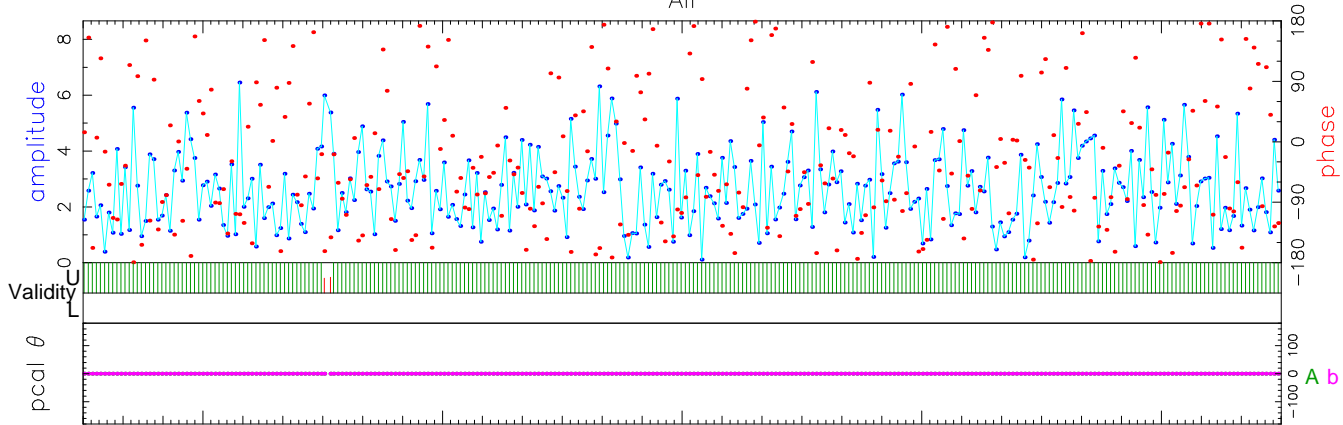
Fringe quality 7

SNR 10.5
Int time 298.280
Amp 2.888
Phase 234.6
PFD 2.4e-17
Delays (us)
SBD -23.680233
MBD 0.000007
Fringe rate (Hz)
0.741833
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134113
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-90.2
0.9
167.4
U/L 584/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W00UX
b W01UR

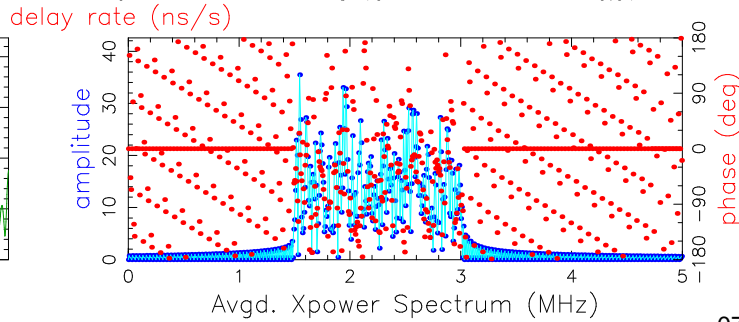
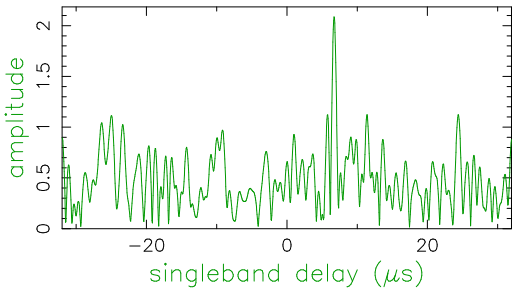
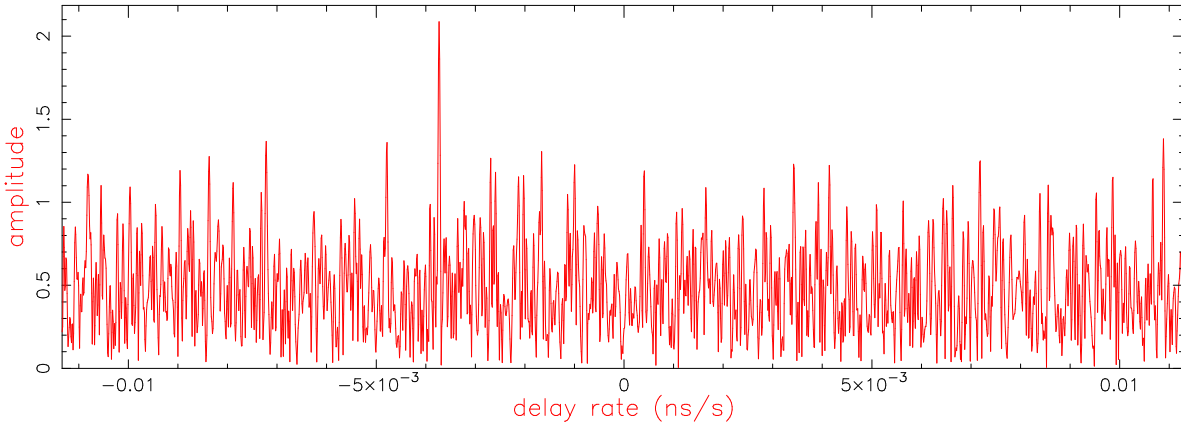
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 3.13880063285E+03 | Apriori delay (usec) | 3.16248086822E+03 | Resid mbdelay (usec) | 7.23487E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | 3.13880063462E+03 | Apriori clock (usec) | -2.1046155E+03 | Resid sbdelay (usec) | -2.36802E+01 | +/- | 1.1E-02 |
| Phase delay (usec) | 3.16248086531E+03 | Apriori clockrate (us/s) | -1.1300001E-06 | Resid phdelay (usec) | -2.90876E-06 | +/- | 3.5E-07 |
| Delay rate (us/s) | -9.49881566394E-01 | Apriori rate (us/s) | -9.49890178340E-01 | Resid rate (us/s) | 8.61195E-06 | +/- | 2.0E-09 |
| Total phase (deg) | 230.4 | Apriori accel (us/s/s) | 2.76651345738E-05 | Resid phase (deg) | 234.6 | +/- | 10.9 |

| | | | | | | | | |
|--------------|----------|-------------|---------------------------|--|---------------------------|------------------|---------|--------|
| ph/seg (deg) | RMS 88.5 | Theor. 93.2 | Amplitude 2.888 +/- 0.275 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 62.1 | 162.7 | Search (2048X8) 2.226 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | SampCntNorm: enabled | mb window (us) | -0.000 | 0.000 |
| ph/frq (deg) | 0.0 | 5.5 | Interp. 0.000 | Bits/sample: 2x2 | Sample rate(MISamp/s): 10 | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.8 | 9.5 | Inc. seg. avg. 1.453 | Data rate(Mb/s): 20 | nlags: 640 | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. 2.866 | | | | | |

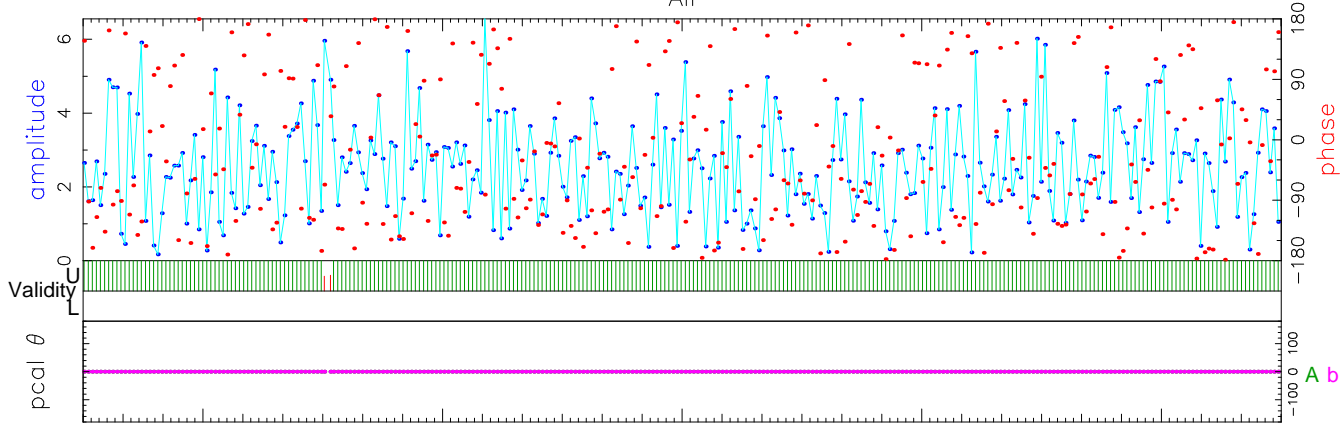
A: az 252.8 el 31.3 pa 102.4 b: az 192.2 el 15.1 pa 9.0 u,v (fr/asec) 6095.808 -10043.795 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ab..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ab.W.15.1SJ65A

Fringe quality 8



SNR 9.8
Int time 298.280
Amp 2.185
Phase -179.8
PFD 4.7e-14
Delays (us)
SBD 6.716214
MBD -0.000006
Fringe rate (Hz)
-0.321321
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-116.5
0.7
775.3
U/L 584/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W00UY
b W01UL

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) | 3.16919707818E+03 | Apriori delay (usec) | 3.16248086822E+03 | Resid mbdelay (usec) | -5.79003E-06 | +/- 1.1E-02 |
| Sband delay (usec) | 3.16919708262E+03 | Apriori clock (usec) | -2.1046155E-03 | Resid sbdelay (usec) | 6.71621E+00 | +/- 1.1E-02 |
| Phase delay (usec) | 3.16248086446E+03 | Apriori clockrate (us/s) | -1.1300001E-06 | Resid phdelay (usec) | -3.75842E-06 | +/- 3.8E-07 |
| Delay rate (us/s) | -9.49893908554E-01 | Apriori rate (us/s) | -9.49890178340E-01 | Resid rate (us/s) | -3.73021E-06 | +/- 2.2E-09 |
| Total phase (deg) | -183.9 | Apriori accel (us/s/s) | 2.76651345738E-05 | Resid phase (deg) | -179.8 | +/- 11.8 |

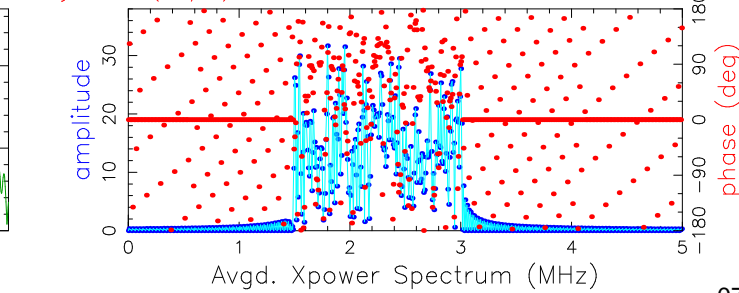
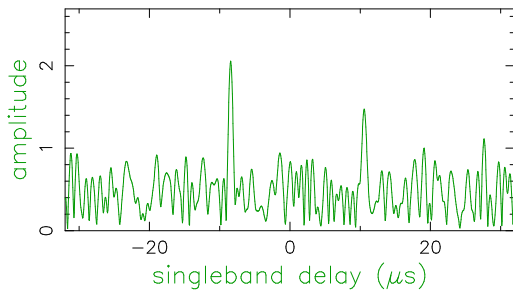
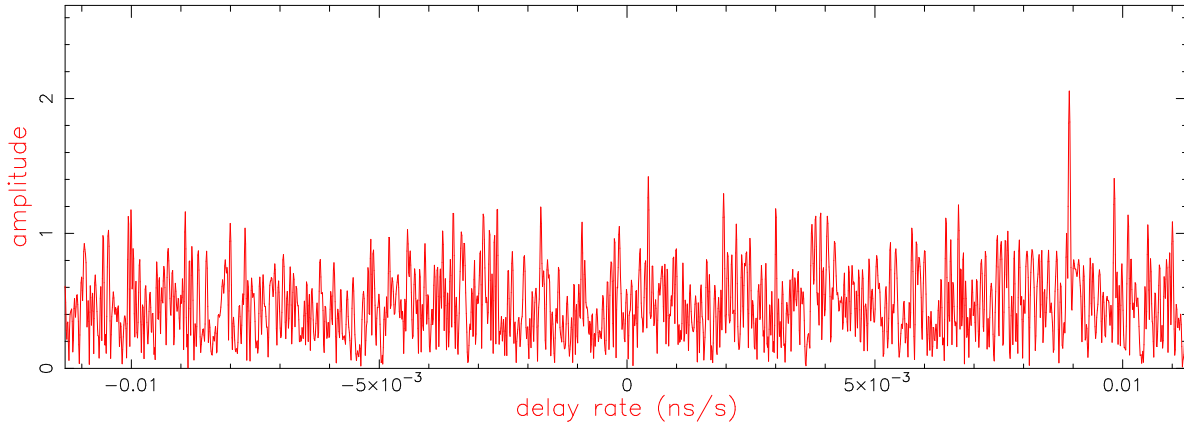
| | | | | | | | |
|--------------|------|---------------------------------|-------|---|---------------------|--|-------------------------------|
| ph/seg (deg) | 89.2 | Theor. | 100.4 | Amplitude | 2.185 +/- 0.224 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 66.1 | Search (2048X8) | 2.070 | Interp. | 0.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.049 | Inc. frq. avg. | 2.171 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.171 | u,v (fr/asec) | 6095.808 -10043.795 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | A: az 252.8 el 31.3 pa 102.4 | | b: az 192.2 el 15.1 pa 9.0 | | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 |
| | | Control file: cf_1234_gmva_line | | Input file: /Exps/c211d/v1/LINES/1234/No0019/Ab..1SJ65A | | Output file: /Exps/c211d/v1/LINES/1234/No0019/Ab.W.21.1SJ65A | |

simultaneous interpolator

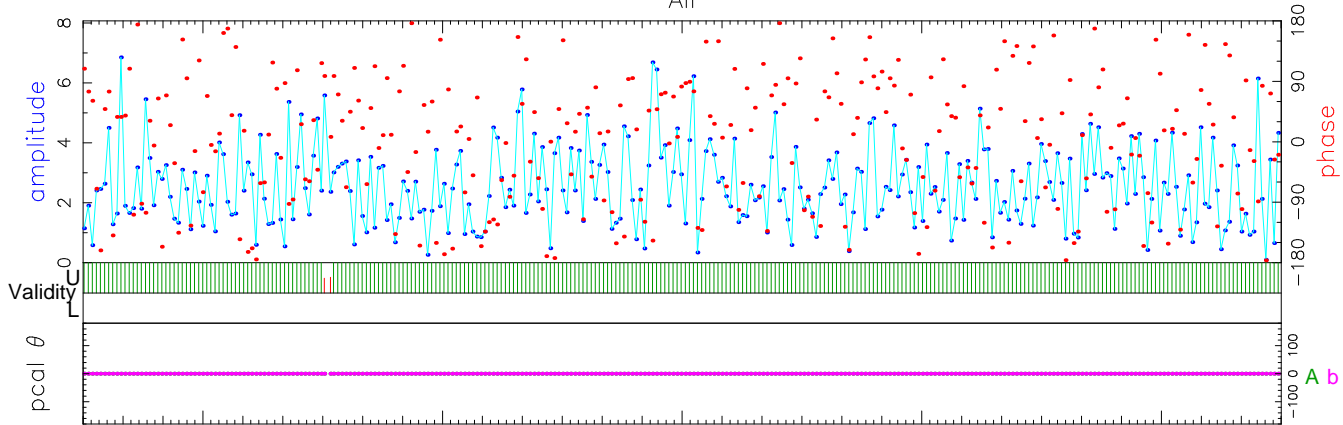
Fringe quality 8

SNR 9.6
Int time 298.280
Amp 2.691
Phase 286.8
PFD 2.0e-13
Delays (us)
SBD -8.435955
MBD 0.000006
Fringe rate (Hz)
0.767776
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134112
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
44.9
0.8
472.3
U/L 584/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W00UY
b W01UR

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) | 3.15404491701E+03 | Apriori delay (usec) | 3.16248086822E+03 | Resid mbdelay (usec) | 5.69725E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | 3.15404491302E+03 | Apriori clock (usec) | -2.1046155E+03 | Resid sbdelay (usec) | -8.43596E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | 3.16248086967E+03 | Apriori clockrate (us/s) | -1.1300001E-06 | Resid phdelay (usec) | 1.44805E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -9.49881265217E-01 | Apriori rate (us/s) | -9.49890178340E-01 | Resid rate (us/s) | 8.91312E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 282.7 | Apriori accel (us/s/s) | 2.76651345738E-05 | Resid phase (deg) | 286.8 | +/- | 11.9 |

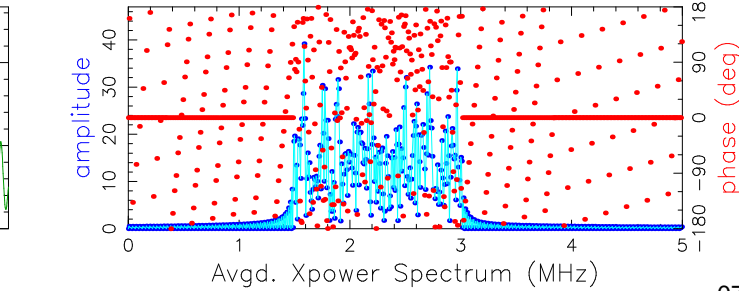
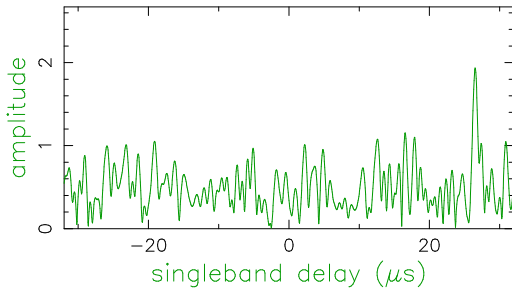
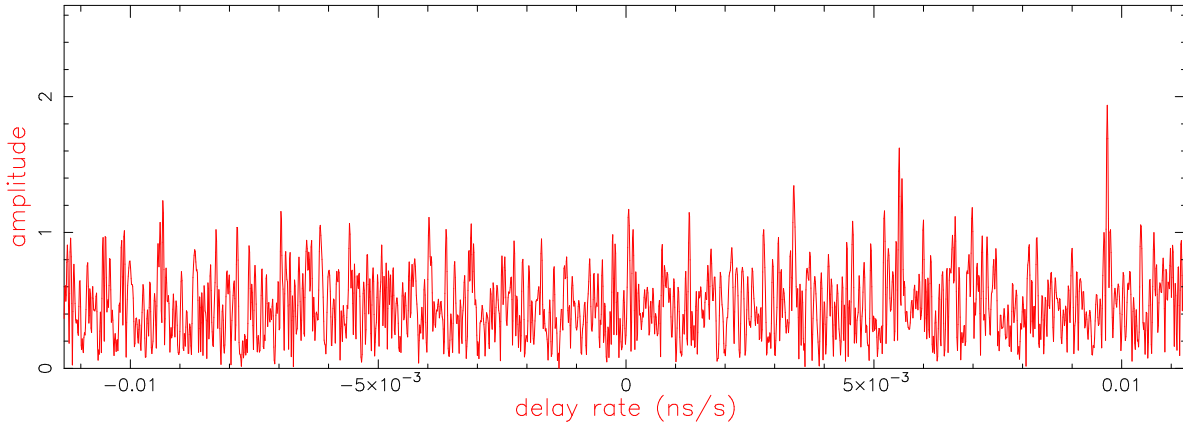
| | | | | | | | | |
|--------------|----------|--------------|---------------------------|--|---------------------------|------------------|---------|--------|
| ph/seg (deg) | RMS 94.2 | Theor. 102.0 | Amplitude 2.691 +/- 0.280 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 67.6 | 178.0 | Search (2048X8) 2.036 | 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 | Interp. 0.000 | Bits/sample: 2x2 | Sample rate(MISamp/s): 10 | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.7 | 10.4 | Inc. seg. avg. 1.290 | Data rate(Mb/s): 20 | nlags: 640 | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. 2.674 | simultaneous interpolator | | | | |

A: az 252.8 el 31.3 pa 102.4 b: az 192.2 el 15.1 pa 9.0 u,v (fr/asec) 6095.808 -10043.795
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ab..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ab.W.8.1SJ65A

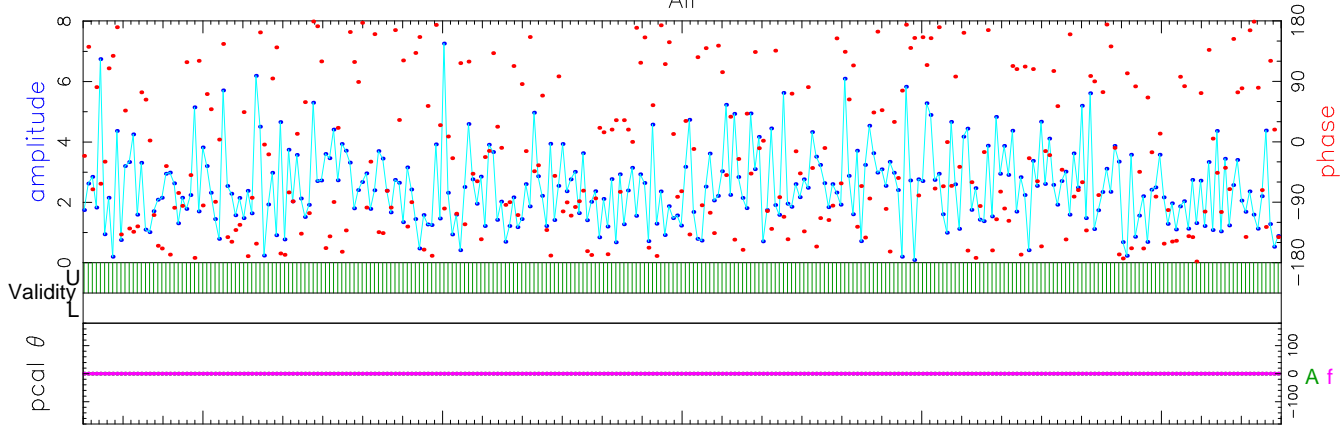
Fringe quality 8

SNR 9.1
Int time 299.952
Amp 2.672
Phase -254.5
PFD 3.0e-11
Delays (us)
SBD 26.509140
MBD 0.000006
Fringe rate (Hz)
0.835721
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134113
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-135.3
0.8
1171.2
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W00UY
f W01UR

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) | -9.03670594625E+02 | Apriori delay (usec) | -9.30179732649E+02 | Resid mbdelay (usec) | 5.57823E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -9.03670593449E+02 | Apriori clock (usec) | -2.1178682E+03 | Resid sbdelay (usec) | 2.65091E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | -9.30179737014E+02 | Apriori clockrate (us/s) | -1.3800001E-06 | Resid phdelay (usec) | -4.36454E-06 | +/- | 4.1E-07 |
| Delay rate (us/s) | -5.79325793976E-01 | Apriori rate (us/s) | -5.79335495867E-01 | Resid rate (us/s) | 9.70189E-06 | +/- | 2.4E-09 |
| Total phase (deg) | -315.9 | Apriori accel (us/s/s) | 3.78121471859E-05 | Resid phase (deg) | -254.5 | +/- | 12.6 |

| | | | | | | | |
|--------------|------|-----------------|-------|----------------|-----------------|--|-------------------------------|
| ph/seg (deg) | 92.3 | Theor. | 108.2 | Amplitude | 2.672 +/- 0.295 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 73.5 | Search (2048X8) | 1.901 | Search | 1.901 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.252 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.655 | Inc. seg. avg. | 1.252 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | | | Inc. frq. avg. | 2.655 | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 |
| | | | | | | nlags: 640 | t_cohere infinite |

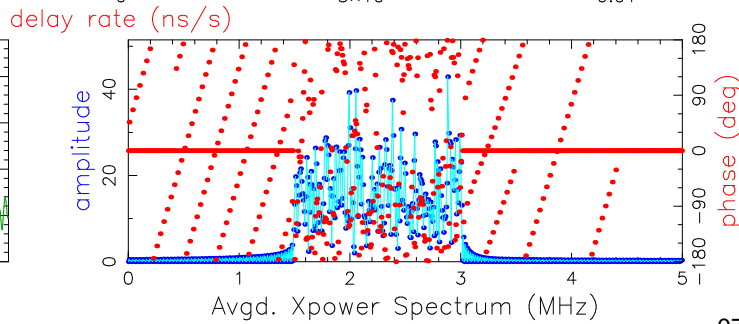
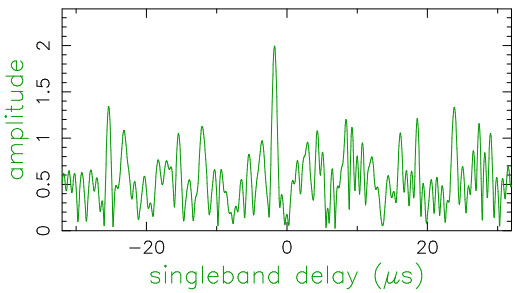
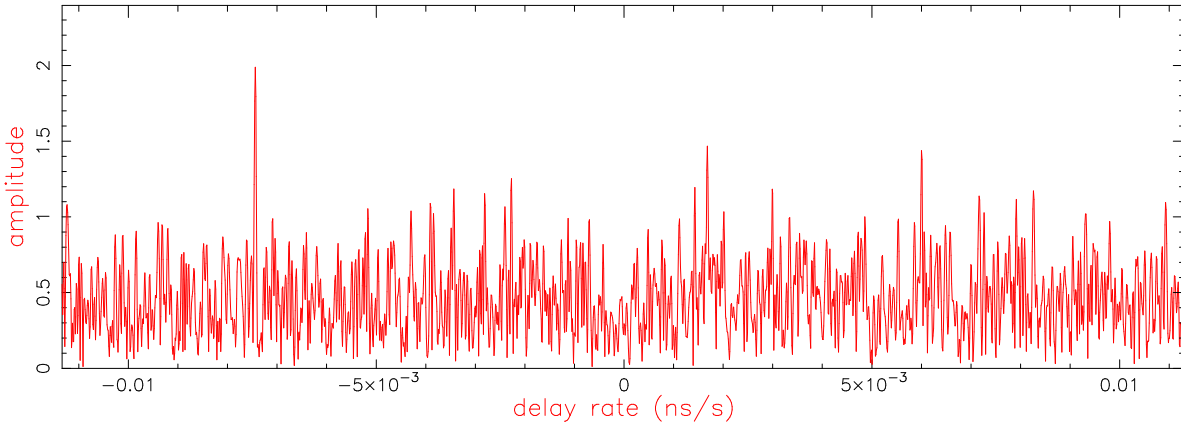
A: az 252.8 el 31.3 pa 102.4 f: az 209.2 el 27.2 pa 28.3 u,v (fr/asec) 3746.911 -8572.922 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Af..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Af.W.14.1SJ65A

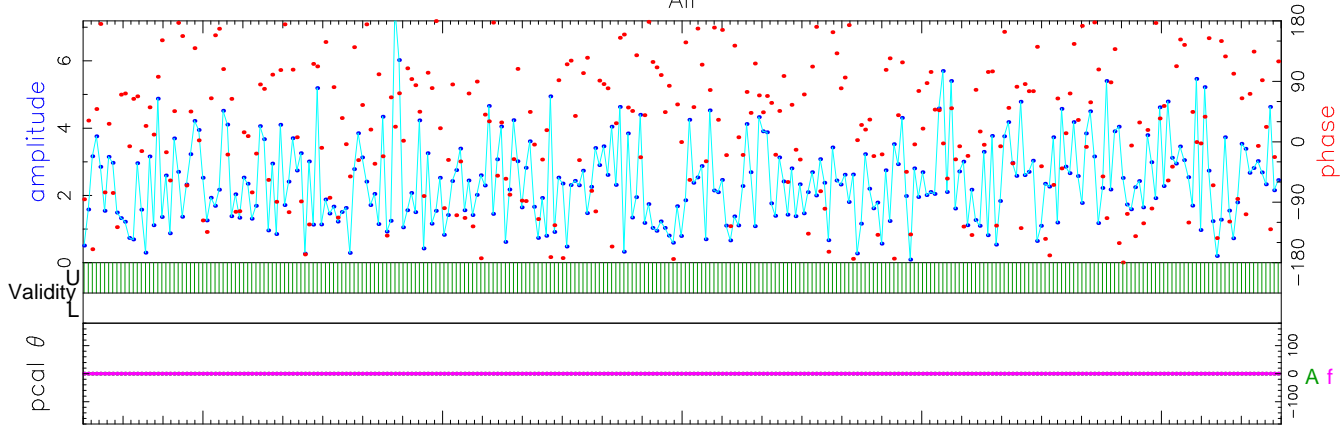
Fringe quality 8

SNR 9.3
Int time 299.952
Amp 2.397
Phase 322.7
PFD 2.5e-12
Delays (us)
SBD -1.766317
MBD -0.000005
Fringe rate (Hz)
-0.640345
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
58.2
0.7
605.7
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W00UX
f W01UR

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

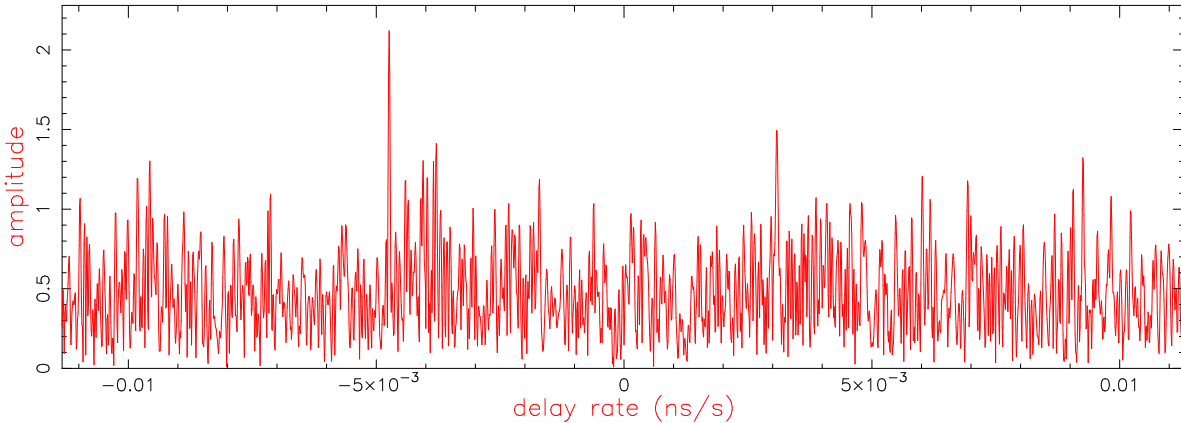
| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -9.31946051827E+02 | Apriori delay (usec) | -9.30179732649E+02 | Resid mbdelay (usec) | -5.43906E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -9.31946049449E+02 | Apriori clock (usec) | -2.1178682E+03 | Resid sbdelay (usec) | -1.76632E+00 | +/- | 1.2E-02 |
| Phase delay (usec) | -9.30179730772E+02 | Apriori clockrate (us/s) | -1.3800001E-06 | Resid phdelay (usec) | 1.87731E-06 | +/- | 4.0E-07 |
| Delay rate (us/s) | -5.79342929634E-01 | Apriori rate (us/s) | -5.79335495867E-01 | Resid rate (us/s) | -7.43377E-06 | +/- | 2.3E-09 |
| Total phase (deg) | 261.3 | Apriori accel (us/s/s) | 3.78121471859E-05 | Resid phase (deg) | 322.7 | +/- | 12.3 |

| | | | | | | | |
|--------------|----------|--------------|---------------------------|-----------------|-------|--|-------------------------------|
| ph/seg (deg) | RMS 92.7 | Theor. 105.0 | Amplitude Search (2048X8) | 2.397 +/- 0.257 | 1.943 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 66.3 | 183.3 | Interp. | 0.000 | 1.943 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | 6.1 | Inc. seg. avg. | 1.080 | 1.080 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.8 | 10.7 | Inc. frq. avg. | 2.375 | 2.375 | Sample rate(MSamp/s): 10 | mb window (us) -0.000 0.000 |
| | | | | | | Data rate(Mb/s): 20 | dr window (ns/s) -0.011 0.011 |
| | | | | | | nlags: 640 | ion window (TEC) 0.00 0.00 |

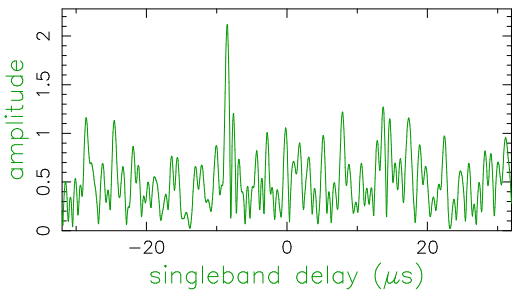
A: az 252.8 el 31.3 pa 102.4 f: az 209.2 el 27.2 pa 28.3 u,v (fr/asec) 3746.911 -8572.922 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Af..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Af.W.20.1SJ65A

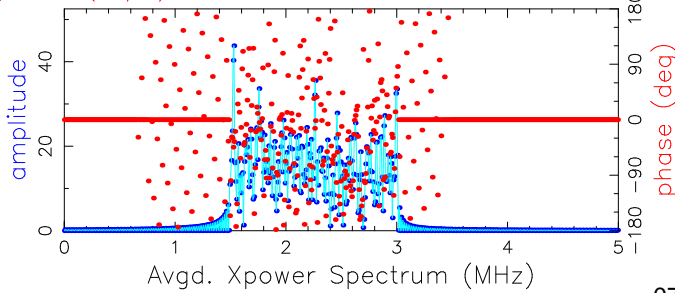
Fringe quality 8



SNR 9.9
Int time 299.952
Amp 2.280
Phase 84.8
PFD 9.0e-15
Delays (us)
SBD -8.500503
MBD -0.000004
Fringe rate (Hz)
-0.408028
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



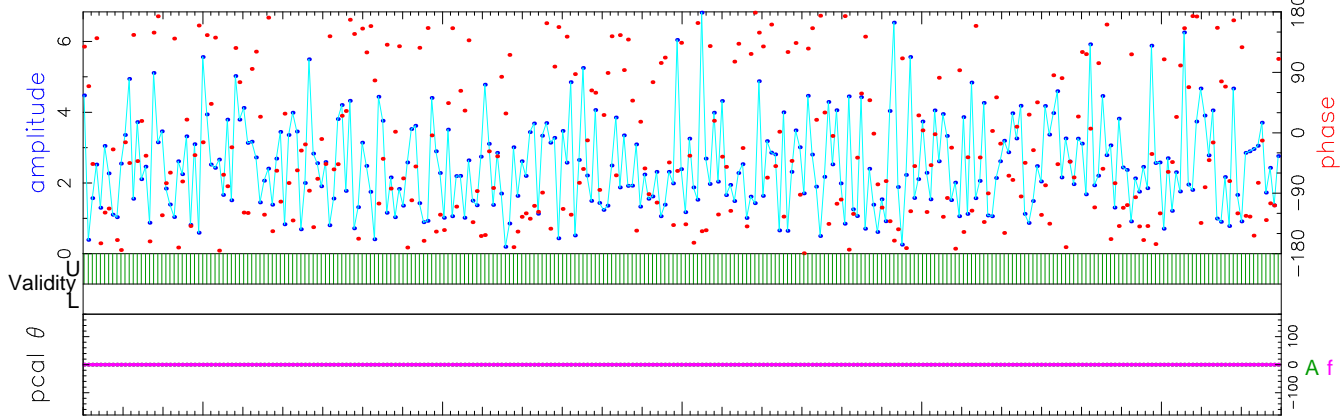
delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134116
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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

All



86231.00
-111.4
0.7
471.0
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W00UY
f W01UL

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) | -9.38680229863E+02 | Apriori delay (usec) | -9.30179732649E+02 | Resid mbdelay (usec) | -4.35106E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -9.38680235049E+02 | Apriori clock (usec) | -2.1178682E+03 | Resid sbdelay (usec) | -8.50050E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | -9.30179736242E+02 | Apriori clockrate (us/s) | -1.3800001E-06 | Resid phdelay (usec) | -3.59218E-06 | +/- | 3.7E-07 |
| Delay rate (us/s) | -5.79340232670E-01 | Apriori rate (us/s) | -5.79335495867E-01 | Resid rate (us/s) | -4.73680E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 23.4 | Apriori accel (us/s/s) | 3.78121471859E-05 | Resid phase (deg) | 84.8 | +/- | 11.6 |

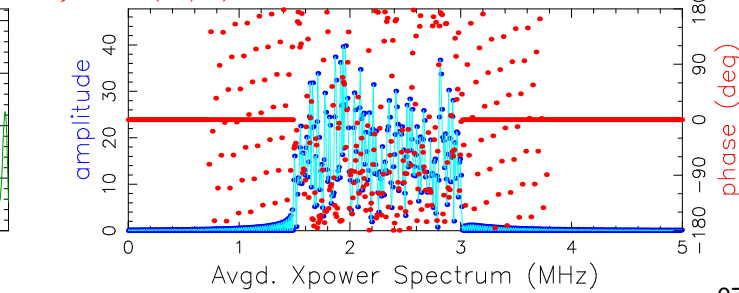
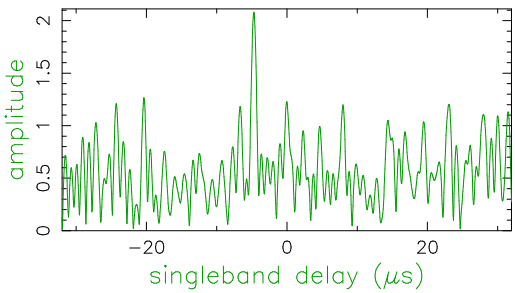
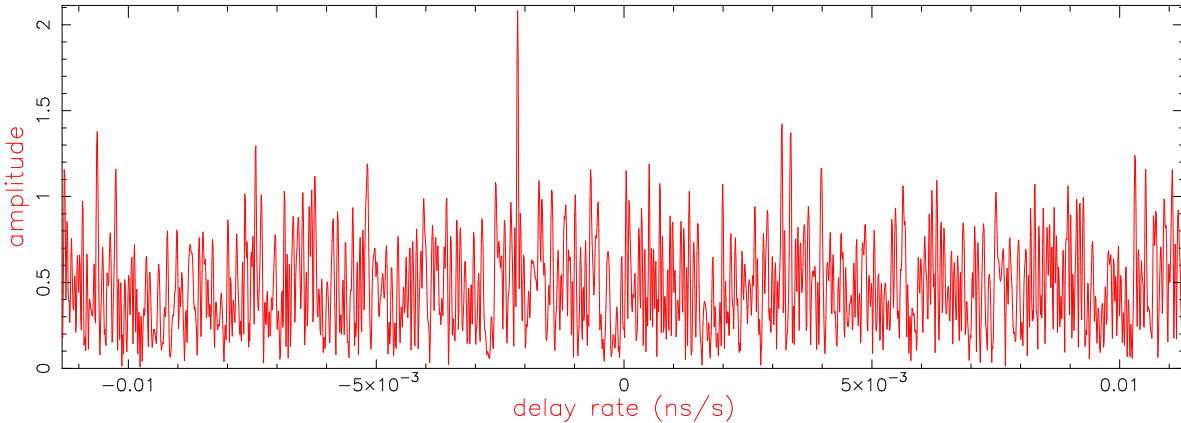
| | | | | | |
|--------------|----------|-------------|---------------------------|--|-------------------------------|
| ph/seg (deg) | RMS 90.5 | Theor. 98.9 | Amplitude 2.280 +/- 0.230 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 64.2 | 172.6 | Search (2048X8) 2.101 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | 5.8 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | 10.1 | Inc. seg. avg. 1.090 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | | Inc. frq. avg. 2.268 | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 |

A: az 252.8 el 31.3 pa 102.4 f: az 209.2 el 27.2 pa 28.3 u,v (fr/asec) 3746.911 -8572.922 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Af..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Af.W.26.1SJ65A

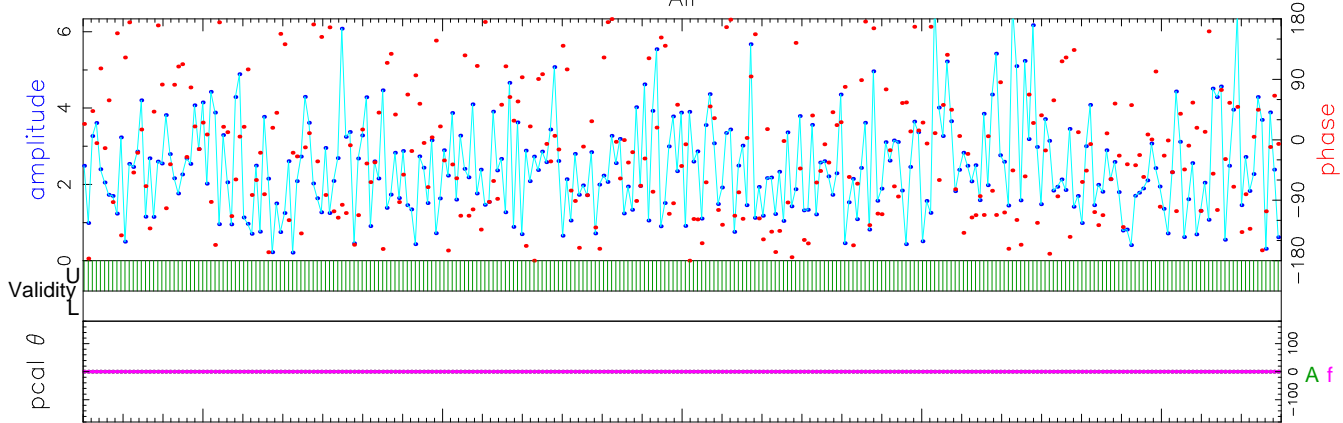
Fringe quality 8

SNR 9.7
Int time 299.952
Amp 2.113
Phase 17.6
PFD 5.1e-14
Delays (us)
SBD -4.705027
MBD -0.000007
Fringe rate (Hz)
-0.184656
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134112
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-39.0
0.6
546.9
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W00UX
f W01UL

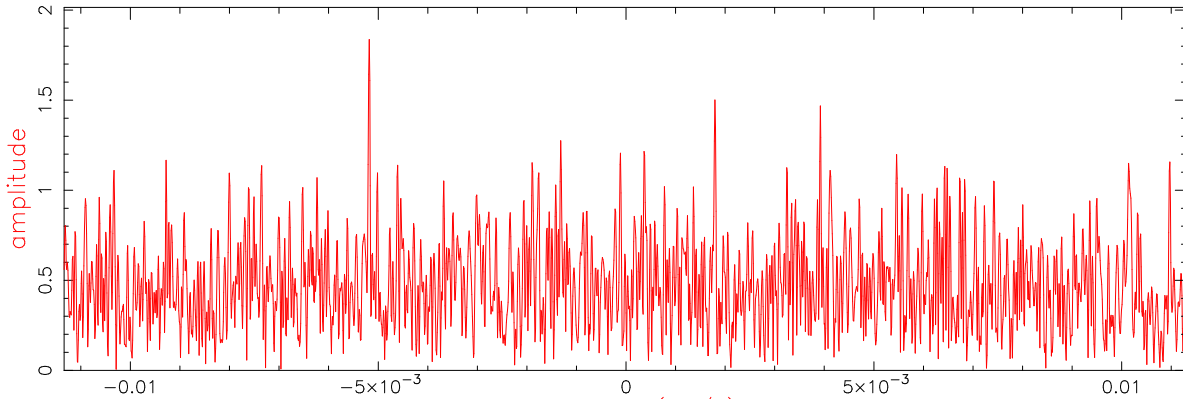
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -9.34884764130E+02 | Apriori delay (usec) | -9.30179732649E+02 | Resid mbdelay (usec) | -6.60598E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -9.34884759849E+02 | Apriori clock (usec) | -2.1178682E+03 | Resid sbdelay (usec) | -4.70503E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | -9.30179733907E+02 | Apriori clockrate (us/s) | -1.3800001E-06 | Resid phdelay (usec) | -1.25733E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -5.79337639546E-01 | Apriori rate (us/s) | -5.79335495867E-01 | Resid rate (us/s) | -2.14368E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 316.3 | Apriori accel (us/s/s) | 3.78121471859E-05 | Resid phase (deg) | 17.6 | +/- | 11.8 |

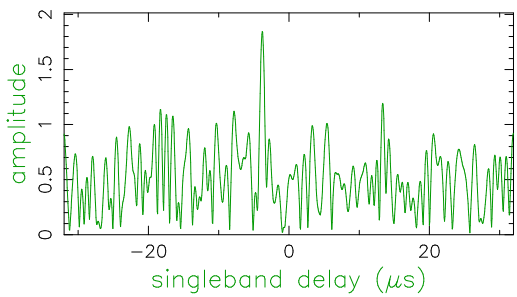
| | | | | | | | | | | |
|--------------|------|-----------------|-------|----------------|-----------------|------------------------|-----------------------------|----------------------|----------------|--------------|
| ph/seg (deg) | 89.8 | Theor. | 100.7 | Amplitude | 2.113 +/- 0.217 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 | |
| amp/seg (%) | 63.9 | Search (2048X8) | 2.028 | Interp. | 0.000 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 32.000 | |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 0.982 | Inc. frq. avg. | 2.102 | Bits/sample: | 2x2 | SampCntNorm: enabled | mb window (us) | -0.000 0.000 |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.102 | | | Sample rate(MISamp/s): | 10 | dr window (ns/s) | -0.011 0.011 | |
| | | | | | | Data rate(Mb/s): | 20 | ion window (TEC) | 0.00 0.00 | |

A: az 252.8 el 31.3 pa 102.4 f: az 209.2 el 27.2 pa 28.3 u,v (fr/asec) 3746.911 -8572.922 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Af..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Af.W.7.1SJ65A

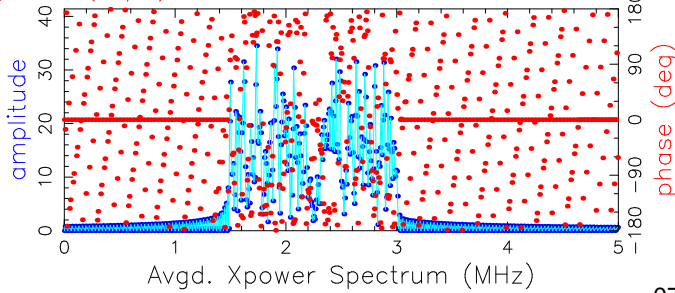
Fringe quality 8



SNR 8.6
Int time 299.980
Amp 2.015
Phase 252.8
PFD 1.3e-09
Delays (us)
SBD -3.787581
MBD -0.000004
Fringe rate (Hz)
-0.445914
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

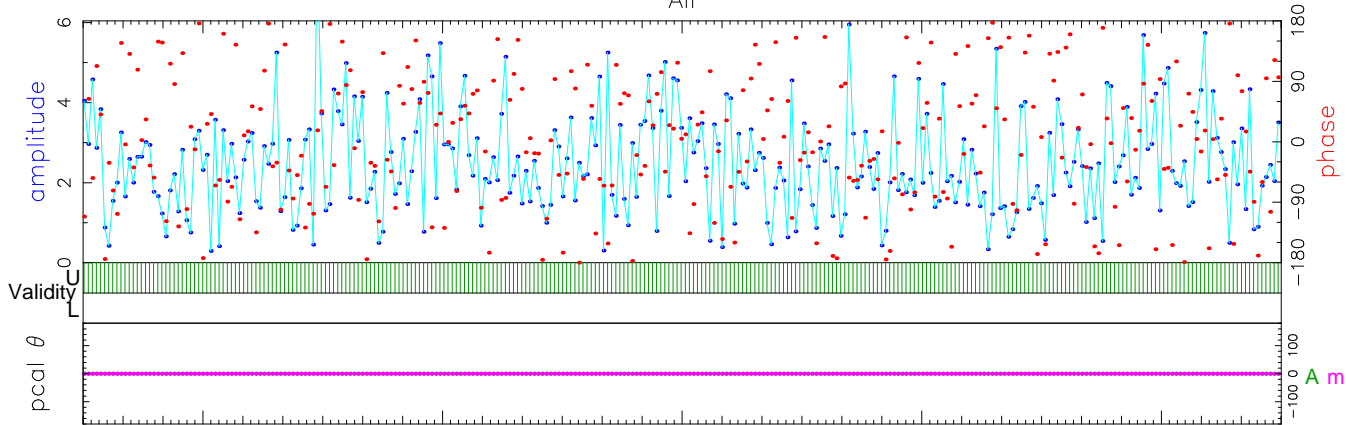


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134113
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
11.6
0.6
565.2
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W00UY
m W01UR

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) | -4.91017794326E+03 | Apriori delay (usec) | -4.90639035670E+03 | Resid mbdelay (usec) | -4.36565E-06 | +/- | 1.3E-02 |
| Sband delay (usec) | -4.91017793750E+03 | Apriori clock (usec) | -2.1233235E+03 | Resid sbdelay (usec) | -3.78758E+00 | +/- | 1.3E-02 |
| Phase delay (usec) | -4.90639035633E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | 3.75469E-07 | +/- | 4.3E-07 |
| Delay rate (us/s) | -1.66432006950E+00 | Apriori rate (us/s) | -1.66431489289E+00 | Resid rate (us/s) | -5.17662E-06 | +/- | 2.5E-09 |
| Total phase (deg) | 135.4 | Apriori accel (us/s/s) | 5.05567303374E-05 | Resid phase (deg) | 252.8 | +/- | 13.3 |

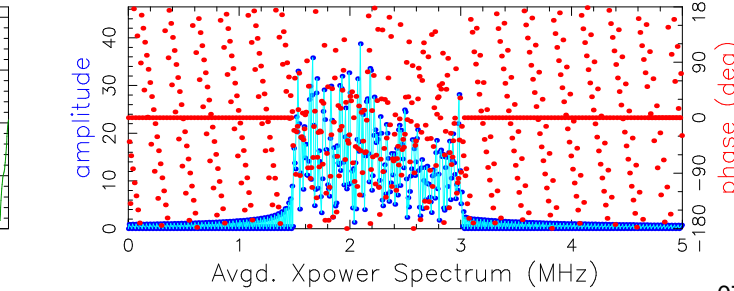
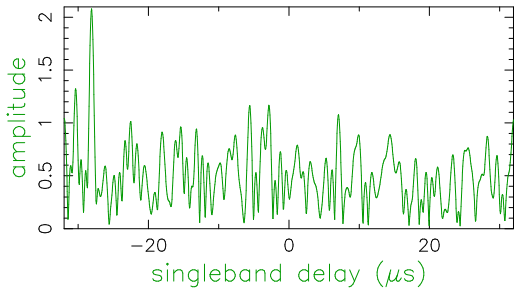
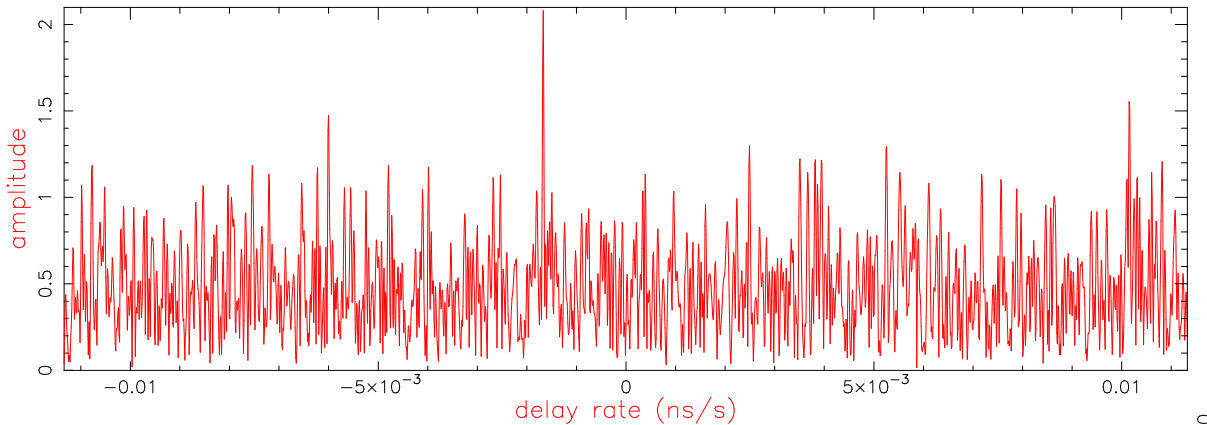
| | | | | | | | | | | | |
|--------------|----------|--------------|---------------------------|-----------------|---------------------------|---------------------------|-----------------------|-------------------|------------------|--------|-------|
| ph/seg (deg) | RMS 95.3 | Theor. 113.5 | Amplitude Search (2048X8) | 2.015 +/- 0.233 | 1.802 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 | |
| amp/seg (%) | 77.1 | 198.0 | 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 | 6.6 | Inc. seg. avg. | 0.918 | Sample rate(MISamp/s): 10 | Data rate(Mb/s): 20 | nlags: 640 | t_cohere infinite | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.8 | 11.6 | Inc. frq. avg. | 1.991 | | | | ion window (TEC) | 0.00 | 0.00 | |

A: az 252.8 el 31.3 pa 102.4 m: az 153.4 el 39.4 pa -27.7 u,v (fr/asec) 10661.676 -7643.705 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Am..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Am.W.13.1SJ65A

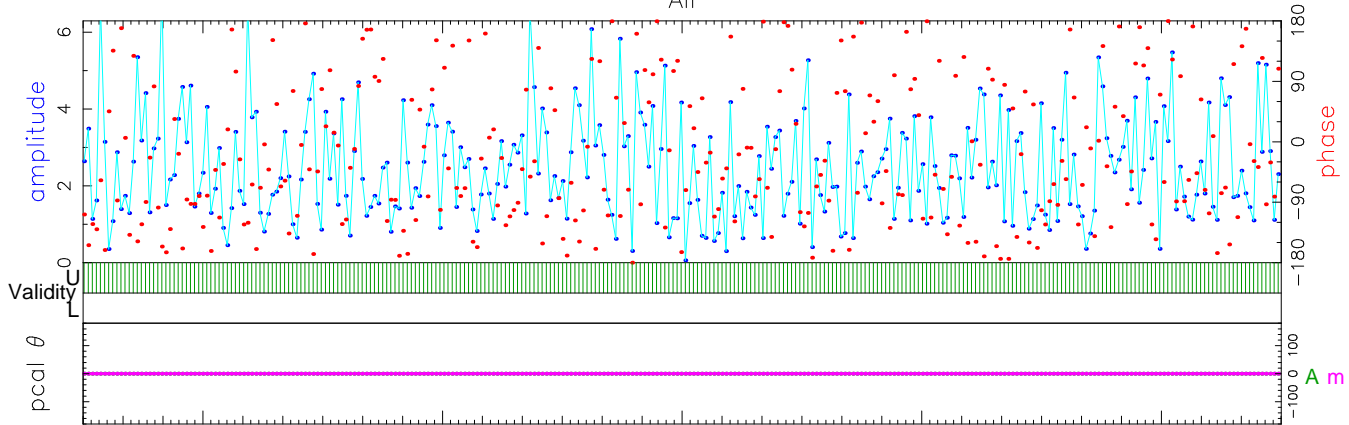
Fringe quality 8

SNR 9.7
Int time 299.980
Amp 2.098
Phase 47.5
PFD 5.6e-14
Delays (us)
SBD -28.092752
MBD -0.000005
Fringe rate (Hz)
-0.144165
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-111.0
0.6
79.1
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W00UX
m W01UR

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) | -4.93448311250E+03 | Apriori delay (usec) | -4.90639035670E+03 | Resid mbdelay (usec) | -4.92955E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -4.93448310870E+03 | Apriori clock (usec) | -2.1233235E+03 | Resid sbdelay (usec) | -2.80928E+01 | +/- | 1.1E-02 |
| Phase delay (usec) | -4.90639036028E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -3.57920E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -1.66431656650E+00 | Apriori rate (us/s) | -1.66431489289E+00 | Resid rate (us/s) | -1.67362E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 290.1 | Apriori accel (us/s/s) | 5.05567303374E-05 | Resid phase (deg) | 47.5 | +/- | 11.8 |

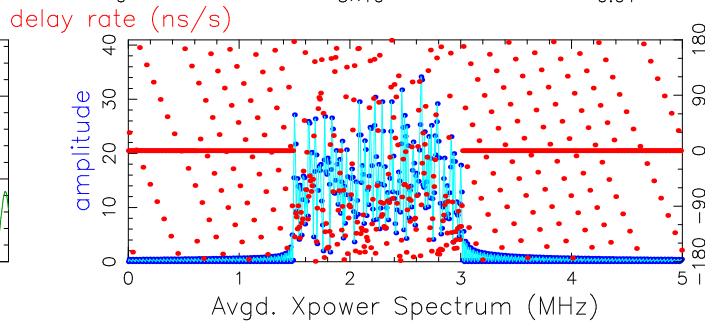
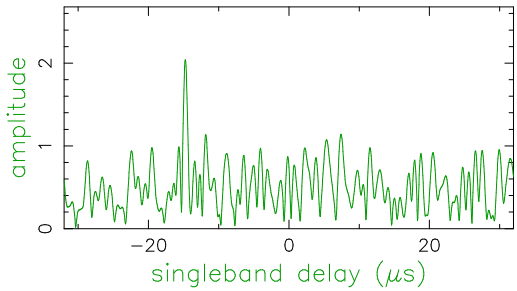
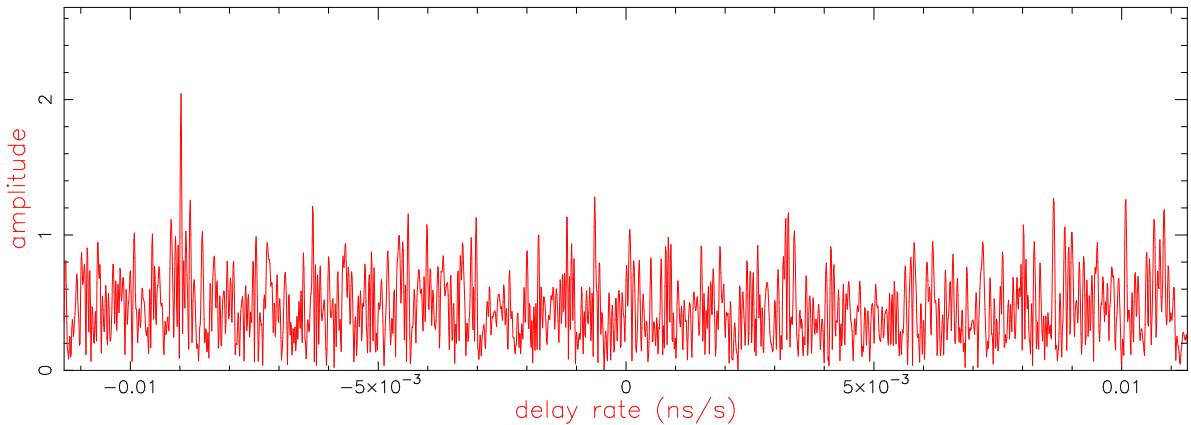
| | | | | | | | | | | |
|--------------|------|-----------------|-------|----------------|-----------------|------------------------|-----------------------------|----------------------|----------------|--------------|
| ph/seg (deg) | 92.6 | Theor. | 100.8 | Amplitude | 2.098 +/- 0.216 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 | |
| amp/seg (%) | 68.4 | Search (2048X8) | 2.057 | Search | 2.057 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 32.000 | |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 0.988 | Interp. | 0.000 | Bits/sample: | 2x2 | SampCntNorm: enabled | mb window (us) | -0.000 0.000 |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.087 | Inc. seg. avg. | 0.988 | Sample rate (MSamp/s): | 10 | dr window (ns/s) | -0.011 0.011 | |
| | | | | Inc. frq. avg. | 2.087 | Data rate (Mb/s): | 20 | ion window (TEC) | 0.00 0.00 | |
| | | | | | | nlags: | 640 | t_cohere | infinite | |

A: az 252.8 el 31.3 pa 102.4 m: az 153.4 el 39.4 pa -27.7 u,v (fr/asec) 10661.676 -7643.705 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Am..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Am.W.19.1S1J65A

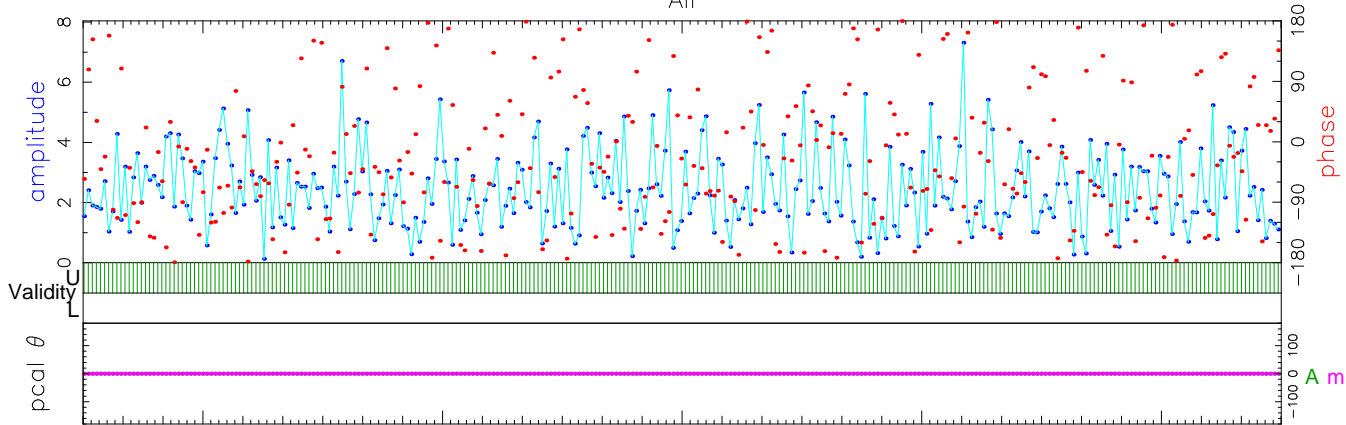
Fringe quality 8

SNR 9.6
Int time 299.980
Amp 2.681
Phase 228.6
PFD 3.1e-13
Delays (us)
SBD -14.745578
MBD -0.000005
Fringe rate (Hz)
-0.772780
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134115
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-76.1
0.8
346.1
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W00UY
m W01UL

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) | -4.92113592879E+03 | Apriori delay (usec) | -4.90639035670E+03 | Resid mbdelay (usec) | -4.94430E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -4.92113593430E+03 | Apriori clock (usec) | -2.1233235E+03 | Resid sbdelay (usec) | -1.47456E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | -4.90639035916E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -2.45528E-06 | +/- | 3.9E-07 |
| Delay rate (us/s) | -1.66432386410E+00 | Apriori rate (us/s) | -1.66431489289E+00 | Resid rate (us/s) | -8.97121E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 111.2 | Apriori accel (us/s/s) | 5.05567303374E-05 | Resid phase (deg) | 228.6 | +/- | 12.0 |

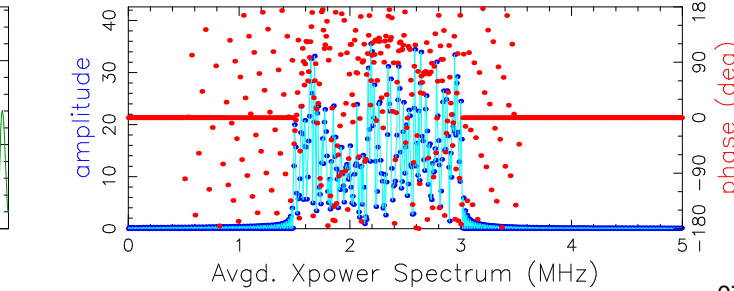
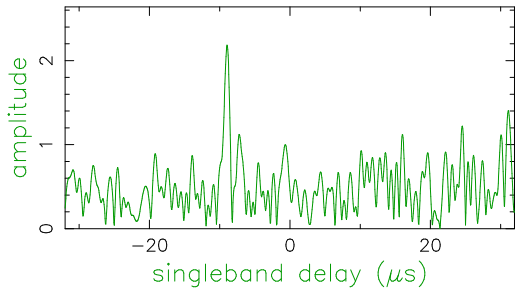
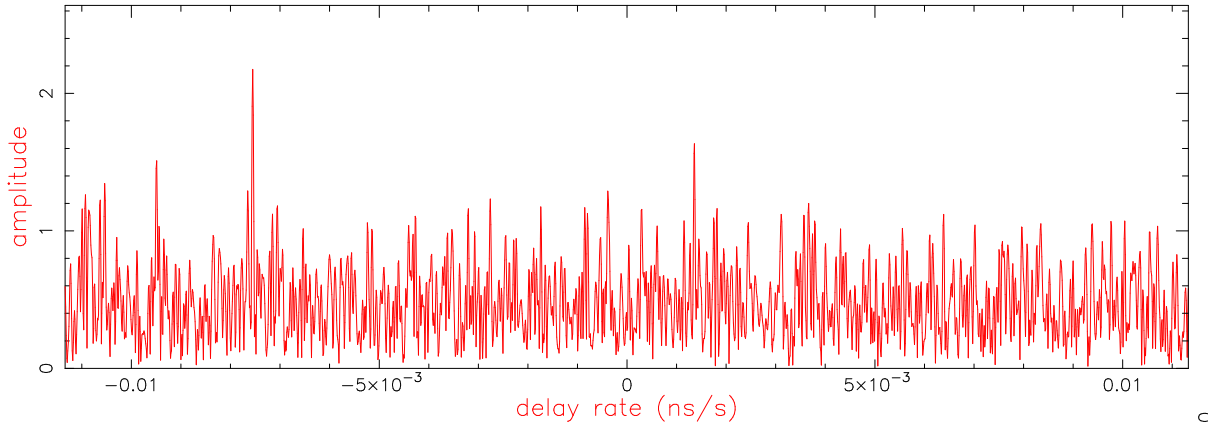
| | | | | | | | |
|--------------|------|-----------------|-------|--------------------------|-------------------|--|-------------------------------|
| ph/seg (deg) | 89.6 | Theor. | 102.6 | Amplitude | 2.681 +/- 0.281 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 67.1 | Search (2048X8) | 1.998 | Interp. | 0.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.238 | Inc. frq. avg. | 2.666 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.666 | Sample rate(MSamp/s): 10 | | Data rate(Mb/s): 20 | mb window (us) -0.000 0.000 |
| | | | | nlags: 640 | t_cohere infinite | | dr window (ns/s) -0.011 0.011 |
| | | | | | | | ion window (TEC) 0.00 0.00 |

A: az 252.8 el 31.3 pa 102.4 m: az 153.4 el 39.4 pa -27.7 u,v (fr/asec) 10661.676 -7643.705 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Am..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Am.W.25.1SJ65A

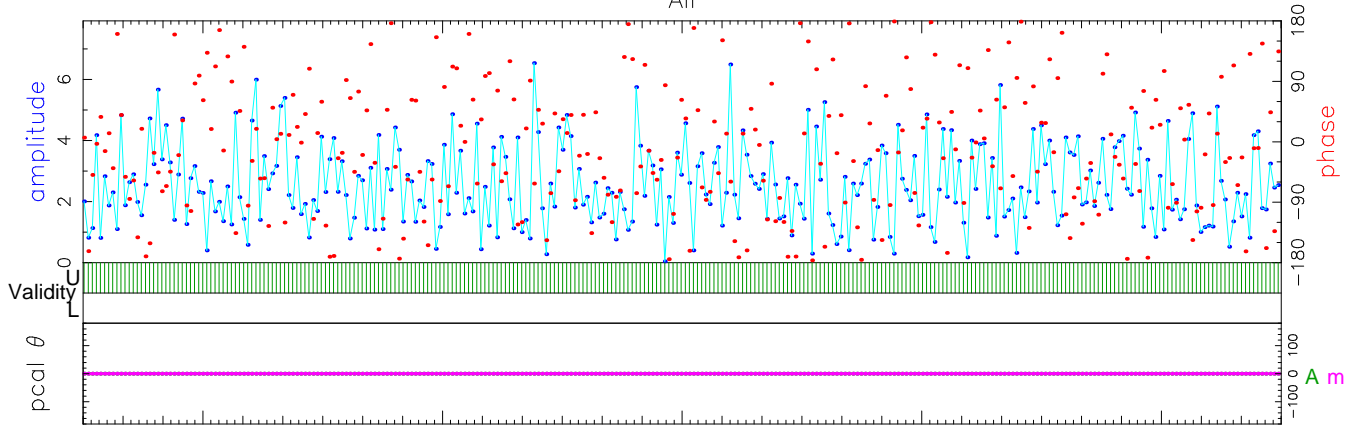
Fringe quality 7

SNR 10.2
Int time 299.980
Amp 2.640
Phase 204.3
PFD 4.1e-16
Delays (us)
SBD -8.940928
MBD -0.000007
Fringe rate (Hz)
-0.650038
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-20.4
0.8
462.2
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W00UX
m W01UL

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) | -4.91533128956E+03 | Apriori delay (usec) | -4.90639035670E+03 | Resid mbdelay (usec) | -6.74226E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -4.91533128470E+03 | Apriori clock (usec) | -2.1233235E+03 | Resid sbdelay (usec) | -8.94093E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | -4.90639035736E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -6.58842E-07 | +/- | 3.6E-07 |
| Delay rate (us/s) | -1.66432243918E+00 | Apriori rate (us/s) | -1.66431489289E+00 | Resid rate (us/s) | -7.54630E-06 | +/- | 2.1E-09 |
| Total phase (deg) | 86.8 | Apriori accel (us/s/s) | 5.05567303374E-05 | Resid phase (deg) | 204.3 | +/- | 11.2 |

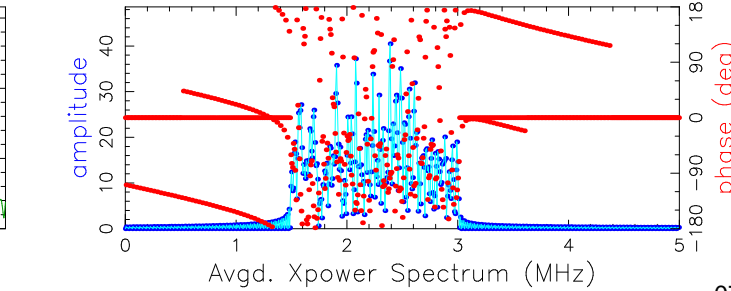
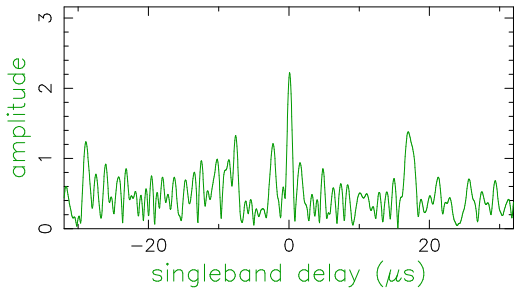
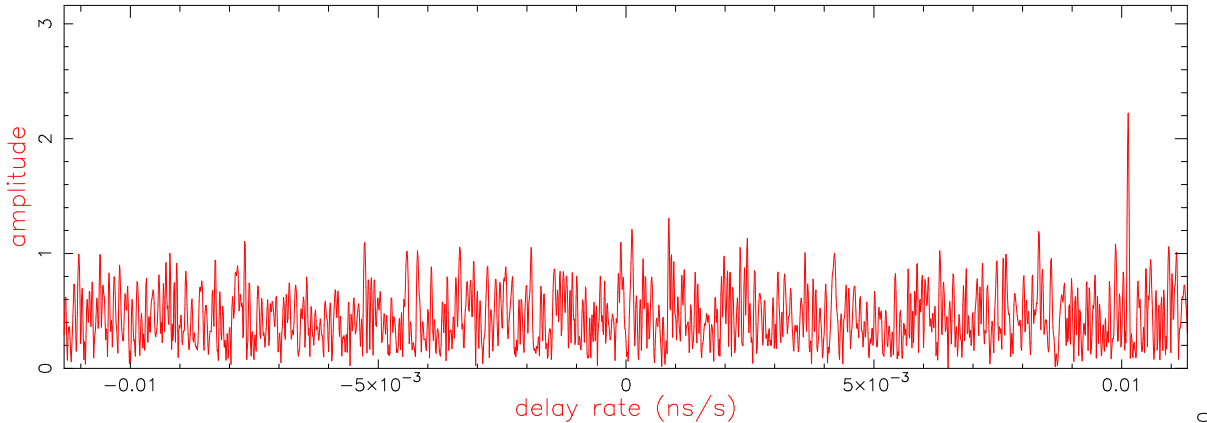
| | | | | | | | | |
|---------------------------------|----------|-------------|---------------------------|---|---------------------------|---------------------------|-------------------------------|---|
| ph/seg (deg) | RMS 92.5 | Theor. 95.9 | Amplitude Search (2048X8) | 2.640 +/- 0.258 | 2.134 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | |
| amp/seg (%) | 62.8 | 167.4 | Interp. | 0.000 | 0.000E+00 | 0.000E+00 (us/s) | sb window (us) -32.000 32.000 | |
| ph/frq (deg) | 0.0 | 5.6 | Inc. seg. avg. | 1.282 | 2x2 | SampCntNorm: enabled | mb window (us) -0.000 0.000 | |
| amp/frq (%) | 69.8 | 9.8 | Inc. frq. avg. | 2.616 | Sample rate(MISamp/s): 10 | | dr window (ns/s) -0.011 0.011 | |
| A: az 252.8 el 31.3 pa 102.4 | | | | m: az 153.4 el 39.4 pa -27.7 | | | | ion window (TEC) 0.00 0.00 |
| Control file: cf_1234_gmva_line | | | | Input file: /Exps/c211d/v1/LINES/1234/No0019/Am..1SJ65A | | | | Output file: /Exps/c211d/v1/LINES/1234/No0019/Am.W.6.1SJ65A |

simultaneous interpolator

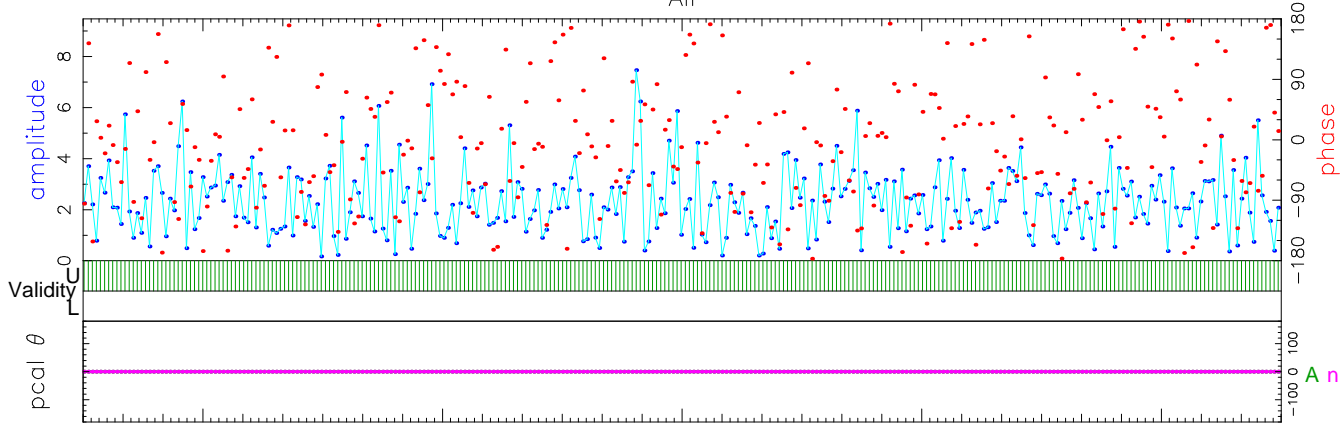
Fringe quality 7

SNR 10.4
Int time 299.985
Amp 3.160
Phase -302.5
PFD 6.6e-17
Delays (us)
SBD 0.096688
MBD 0.000005
Fringe rate (Hz)
0.871215
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134113
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-15.2
1.0
642.9
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W00UY
n W01UR

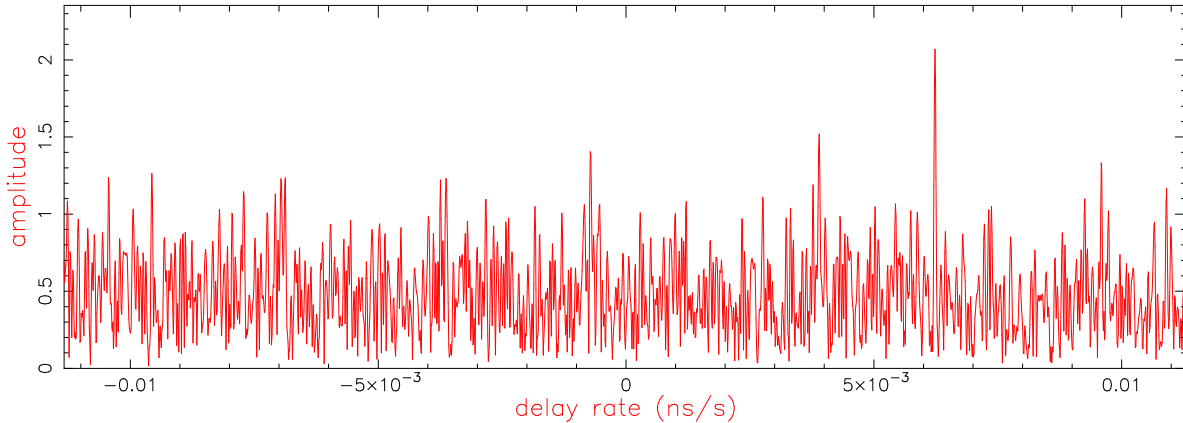
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 4.22897938327E+03 | Apriori delay (usec) | 4.22888269579E+03 | Resid mbdelay (usec) | 5.31280E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | 4.22897938379E+03 | Apriori clock (usec) | -2.1130906E+03 | Resid sbdelay (usec) | 9.66880E-02 | +/- | 1.1E-02 |
| Phase delay (usec) | 4.22888269530E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -4.88727E-07 | +/- | 3.6E-07 |
| Delay rate (us/s) | -4.76041297436E-01 | Apriori rate (us/s) | -4.76051411381E-01 | Resid rate (us/s) | 1.01139E-05 | +/- | 2.1E-09 |
| Total phase (deg) | -153.0 | Apriori accel (us/s/s) | 1.80899092542E-05 | Resid phase (deg) | -302.5 | +/- | 11.0 |

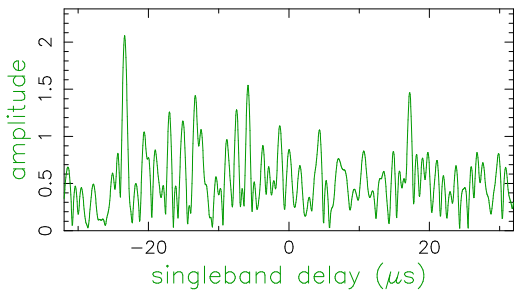
| | | | | | | | |
|--------------|----------|-------------|---------------------------|-----------------|-------|--|-------------------------------|
| ph/seg (deg) | RMS 89.5 | Theor. 94.3 | Amplitude Search (2048X8) | 3.160 +/- 0.304 | 2.159 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 58.9 | 164.5 | Interp. | 0.000 | 2.159 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | 5.5 | Inc. seg. avg. | 1.408 | 2.159 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | 9.6 | Inc. frq. avg. | 3.146 | 2.159 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | | | | | Data rate(Mb/s): 20 | nlags: 640 |
| | | | | | | t_cohere infinite | |
| | | | | | | ion window (TEC) 0.00 0.00 | |

A: az 252.8 el 31.3 pa 102.4 n: az 217.4 el 12.4 pa 30.6 u,v (fr/asec) 3068.470 -9076.707 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/An..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/An.W.12.1SJ65A

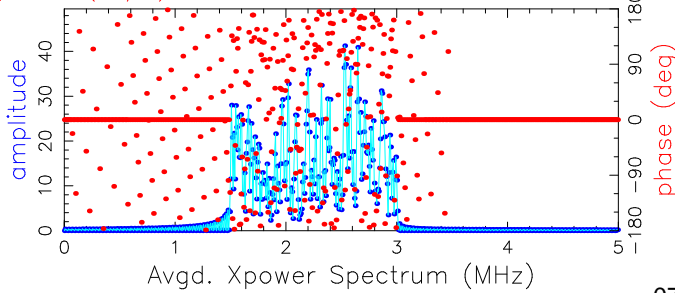
Fringe quality 8



SNR 9.7
Int time 299.985
Amp 2.353
Phase 299.0
PFD 8.1e-14
Delays (us)
SBD -23.383516
MBD 0.000004
Fringe rate (Hz)
0.536770
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

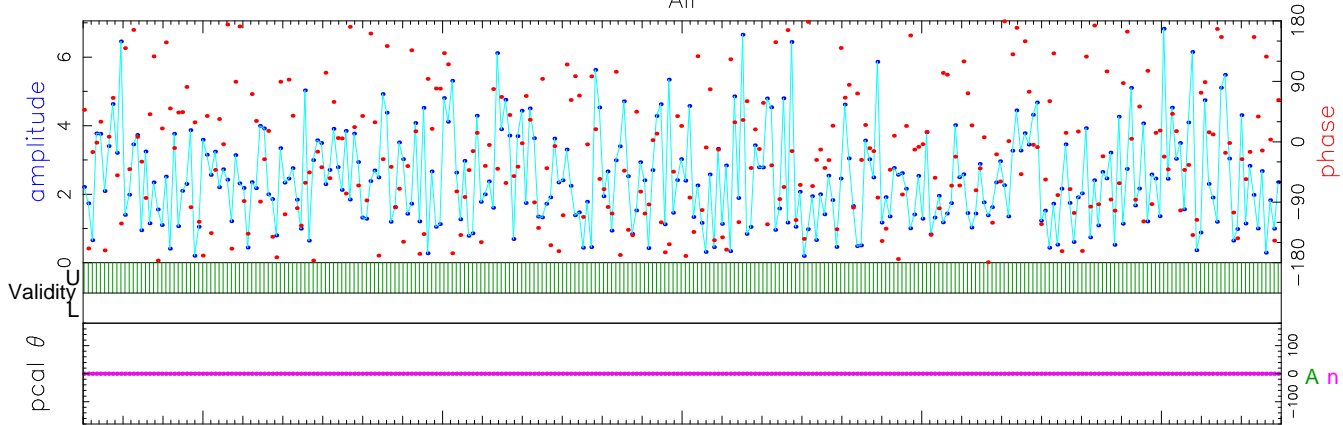


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-25.0
0.7
173.3
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W00UX
n W01UR

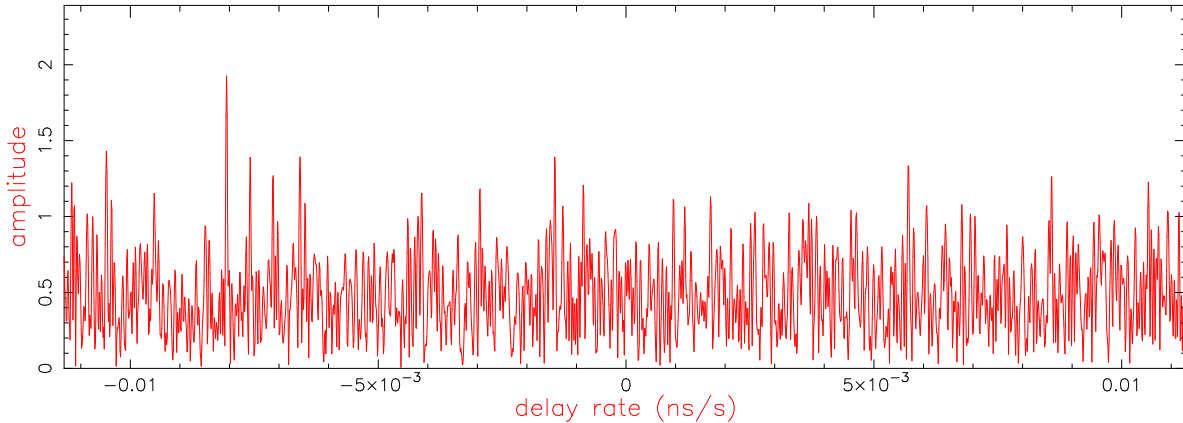
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 4.20549918388E+03 | Apriori delay (usec) | 4.22888269579E+03 | Resid mbdelay (usec) | 4.45789E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | 4.20549917899E+03 | Apriori clock (usec) | -2.1130906E+03 | Resid sbdelay (usec) | -2.33835E+01 | +/- | 1.1E-02 |
| Phase delay (usec) | 4.22888269498E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -8.05453E-07 | +/- | 3.8E-07 |
| Delay rate (us/s) | -4.76045180011E-01 | Apriori rate (us/s) | -4.76051411381E-01 | Resid rate (us/s) | 6.23137E-06 | +/- | 2.2E-09 |
| Total phase (deg) | 88.5 | Apriori accel (us/s/s) | 1.80899092542E-05 | Resid phase (deg) | 299.0 | +/- | 11.8 |

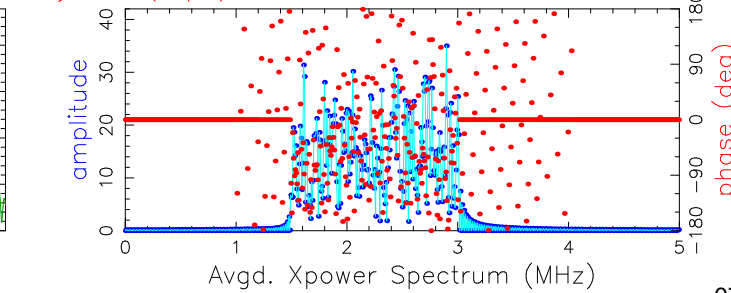
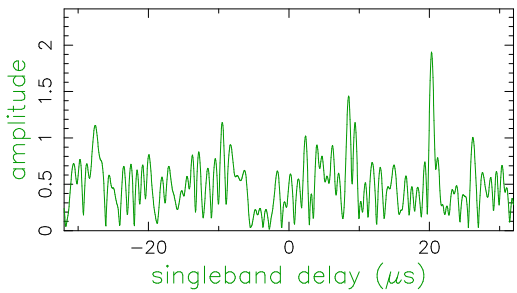
| | | | | | | | | | |
|--------------|----------|--------------|---------------------------|---------------------------|-----------------------|--|----------------|---------|--------|
| ph/seg (deg) | RMS 91.2 | Theor. 101.1 | Amplitude 2.353 +/- 0.243 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 70.6 | 176.5 | Search (2048X8) 2.045 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.000 | 0.000 | |
| ph/frq (deg) | 0.0 | 5.9 | Interp. 0.000 | Sample rate(MISamp/s): 10 | nlags: 640 | dr window (ns/s) | -0.011 | 0.011 | |
| amp/frq (%) | 69.7 | 10.3 | Inc. seg. avg. 1.098 | Data rate(Mb/s): 20 | t_cohere infinite | ion window (TEC) | 0.00 | 0.00 | |
| | | | Inc. frq. avg. 2.339 | simultaneous interpolator | | | | | |

A: az 252.8 el 31.3 pa 102.4 n: az 217.4 el 12.4 pa 30.6 u,v (fr/asec) 3068.470 -9076.707
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/An..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/An.W.17.1SJ65A

Fringe quality 8

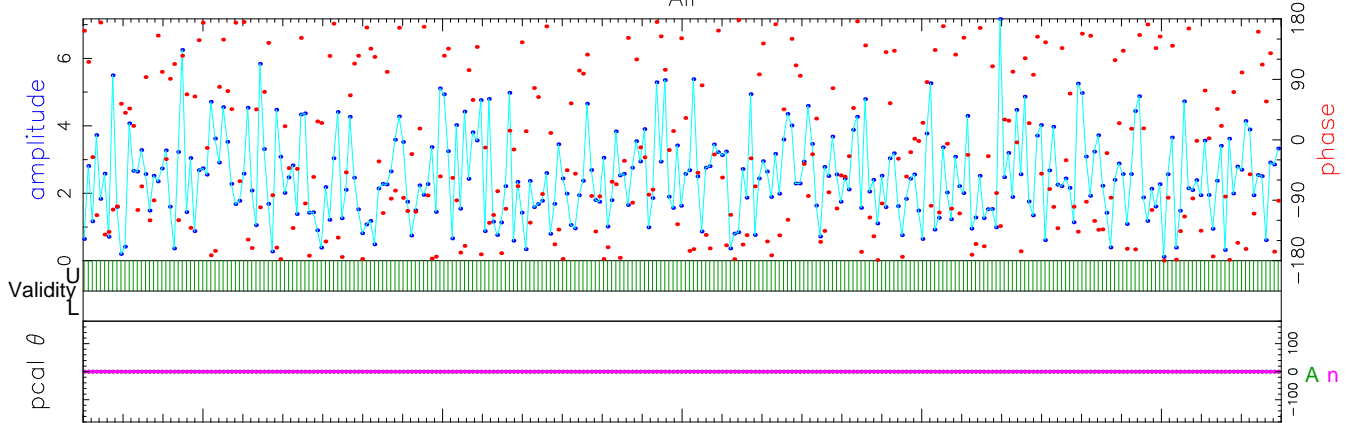


SNR 9.0
Int time 299.985
Amp 2.391
Phase -353.2
PFD 4.9e-11
Delays (us)
SBD 20.302717
MBD -0.000007
Fringe rate (Hz)
-0.693313
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134115
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-156.0
0.7
1047.1
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W00UY
n W01UL

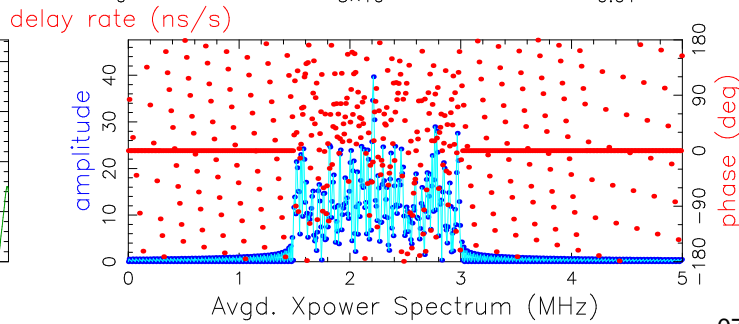
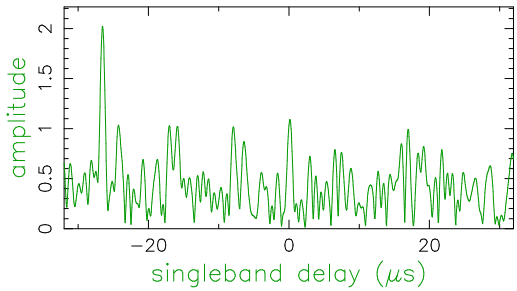
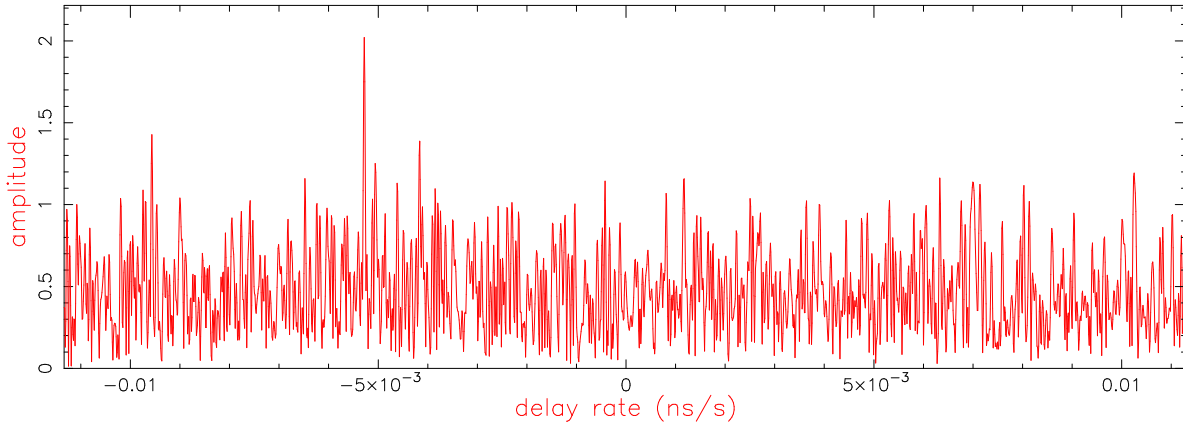
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

| | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-------------|
| Group delay (usec)(sbd) | 4.24918541082E+03 | Apriori delay (usec) | 4.22888269579E+03 | Resid mbdelay (usec) | -6.73067E-06 | +/- 1.2E-02 |
| Sband delay (usec) | 4.24918541259E+03 | Apriori clock (usec) | -2.1130906E+03 | Resid sbdelay (usec) | 2.03027E+01 | +/- 1.2E-02 |
| Phase delay (usec) | 4.22888269076E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -5.03131E-06 | +/- 4.1E-07 |
| Delay rate (us/s) | -4.76059460061E-01 | Apriori rate (us/s) | -4.76051411381E-01 | Resid rate (us/s) | -8.04868E-06 | +/- 2.4E-09 |
| Total phase (deg) | -203.7 | Apriori accel (us/s/s) | 1.80899092542E-05 | Resid phase (deg) | -353.2 | +/- 12.7 |

| | | | | | |
|--------------|----------|--------------|---------------------------|--|-------------------------------|
| ph/seg (deg) | RMS 91.6 | Theor. 108.8 | Amplitude 2.391 +/- 0.265 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 73.4 | 189.9 | Search (2048X8) 1.921 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | 6.4 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | 11.1 | Inc. seg. avg. 1.107 | Sample rate(MISamp/s): 10 | mb window (us) -0.000 0.000 |
| | | | Inc. frq. avg. 2.376 | Data rate(Mb/s): 20 | dr window (ns/s) -0.011 0.011 |
| | | | | nlags: 640 | t_cohere infinite |
| | | | | | ion window (TEC) 0.00 0.00 |

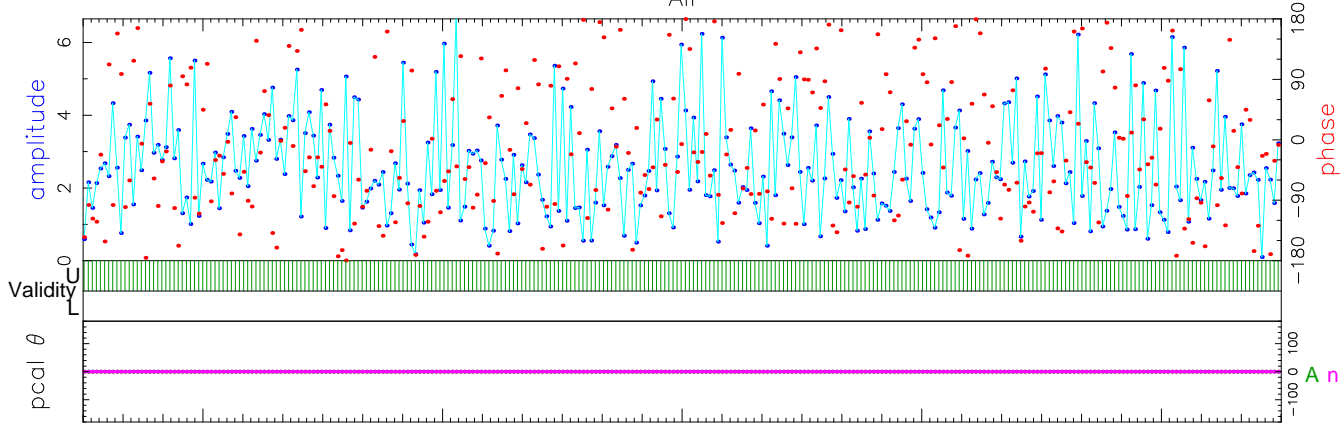
A: az 252.8 el 31.3 pa 102.4 n: az 217.4 el 12.4 pa 30.6 u,v (fr/asec) 3068.470 -9076.707 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/An..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/An.W.23.1SJ65A

Fringe quality 8



SNR 9.5
Int time 299.985
Amp 2.217
Phase 267.2
PFD 6.7e-13
Delays (us)
SBD -26.526754
MBD -0.000005
Fringe rate (Hz)
-0.454702
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-69.1
0.7
110.5
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W00UX
n W01UL

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) | 4.20235594308E+03 | Apriori delay (usec) | 4.22888269579E+03 | Resid mbdelay (usec) | -4.78436E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | 4.20235594059E+03 | Apriori clock (usec) | -2.1130906E+03 | Resid sbdelay (usec) | -2.65268E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | 4.22888269356E+03 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -2.22765E-06 | +/- | 3.9E-07 |
| Delay rate (us/s) | -4.76056690017E-01 | Apriori rate (us/s) | -4.76051411381E-01 | Resid rate (us/s) | -5.27864E-06 | +/- | 2.3E-09 |
| Total phase (deg) | 56.7 | Apriori accel (us/s/s) | 1.80899092542E-05 | Resid phase (deg) | 267.2 | +/- | 12.1 |

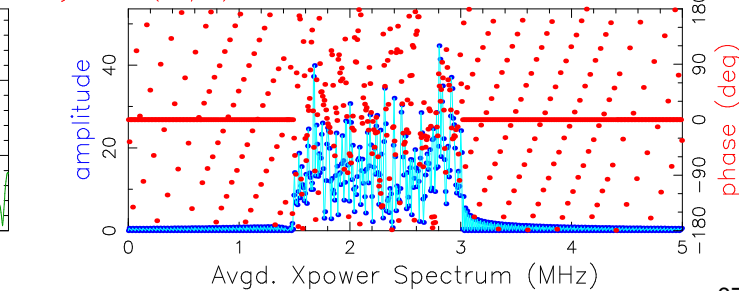
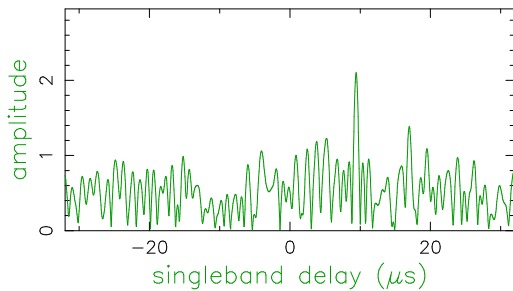
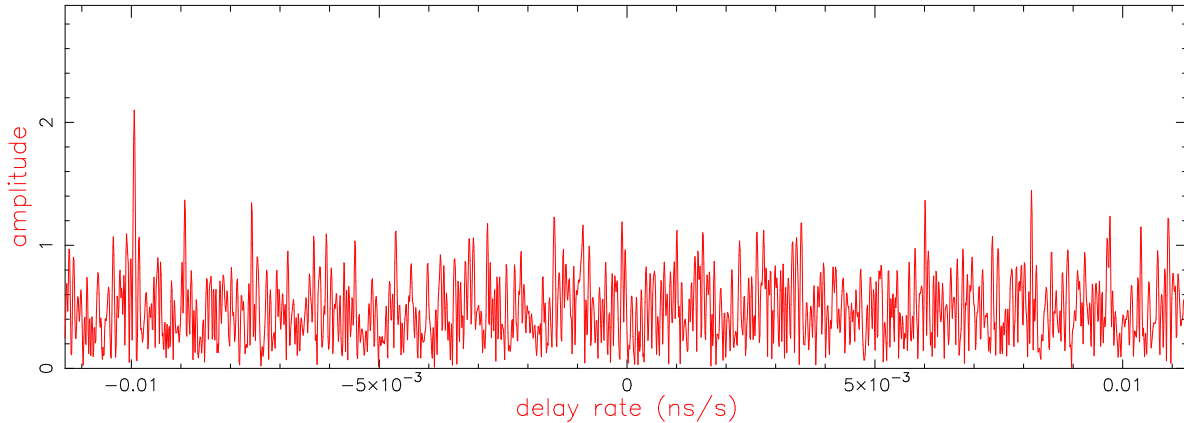
| | | | | | | | | |
|--------------|----------|--------------|---------------------------|--|-----------------------|-------------------|---------|--------|
| ph/seg (deg) | RMS 94.0 | Theor. 103.5 | Amplitude 2.217 +/- 0.234 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 73.4 | 180.7 | Search (2048X8) 2.007 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | mb window (us) | -0.000 | 0.000 |
| ph/frq (deg) | 0.0 | 6.0 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.7 | 10.6 | Inc. seg. avg. 1.077 | Sample rate(MISamp/s): 10 | | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. 2.200 | Data rate(Mb/s): 20 | nlags: 640 | t_cohere infinite | | |

A: az 252.8 el 31.3 pa 102.4 n: az 217.4 el 12.4 pa 30.6 u,v (fr/asec) 3068.470 -9076.707 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/An..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/An.W.5.1SJ65A

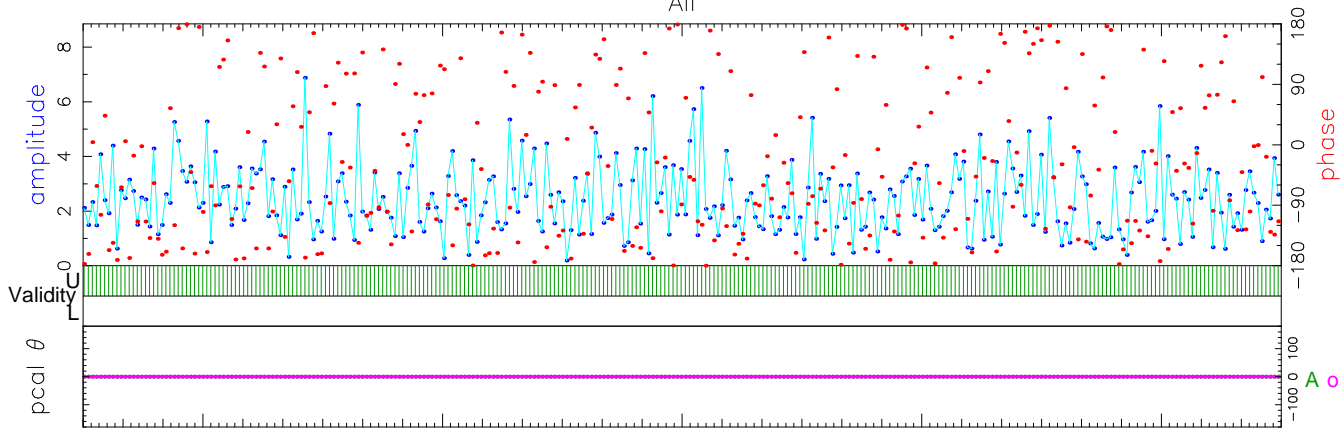
Fringe quality 8

SNR 9.8
Int time 299.984
Amp 2.951
Phase -66.4
PFD 1.8e-14
Delays (us)
SBD 9.426147
MBD -0.000006
Fringe rate (Hz)
-0.855519
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134112
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-145.5
0.9
829.5
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W00UY
o W01UR

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) | -4.21975058935E+02 | Apriori delay (usec) | -4.31401210946E+02 | Resid mbdelay (usec) | -5.63528E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -4.21975063746E+02 | Apriori clock (usec) | -2.1113616E+03 | Resid sbdelay (usec) | 9.42615E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | -4.31401215637E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -4.69060E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -8.80332982547E-01 | Apriori rate (us/s) | -8.80323050822E-01 | Resid rate (us/s) | -9.93172E-06 | +/- | 2.2E-09 |
| Total phase (deg) | -178.3 | Apriori accel (us/s/s) | 3.98796820465E-05 | Resid phase (deg) | -66.4 | +/- | 11.6 |

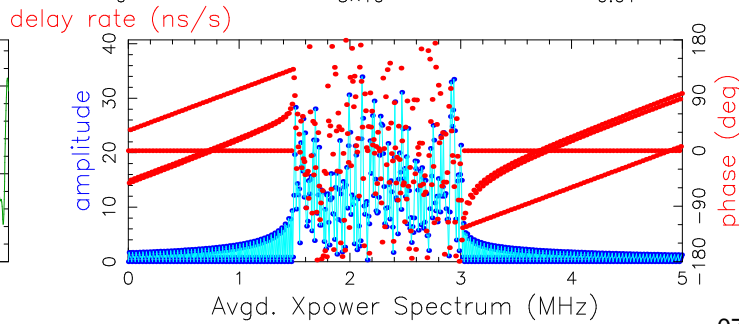
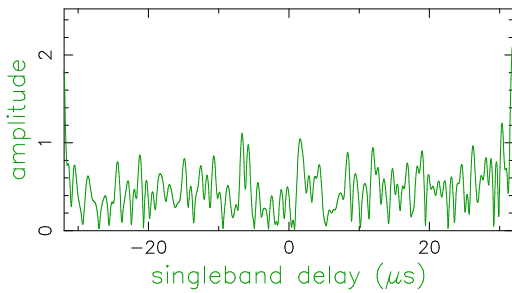
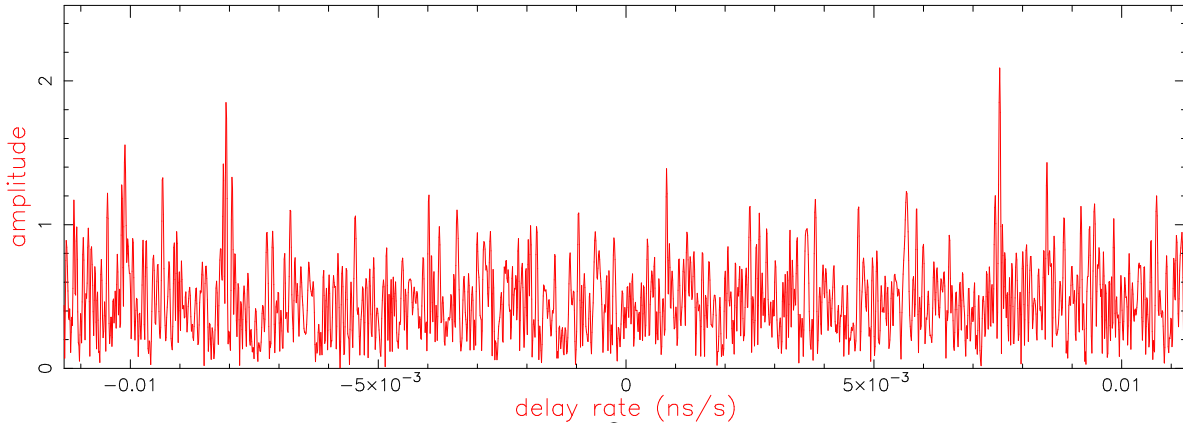
| | | | | | | | | | | |
|--------------|------|-----------------|-------|----------------|-----------------|------------------------|-----------------------------|----------------------|----------------|--------------|
| ph/seg (deg) | 89.7 | Theor. | 99.6 | Amplitude | 2.951 +/- 0.300 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 | |
| amp/seg (%) | 63.0 | Search (2048X8) | 2.089 | Interp. | 0.000 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -32.000 32.000 | |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.367 | Inc. frq. avg. | 2.928 | Bits/sample: | 2x2 | SampCntNorm: enabled | mb window (us) | -0.000 0.000 |
| amp/frq (%) | 69.8 | Inc. frq. avg. | 2.928 | | | Sample rate(MISamp/s): | 10 | dr window (ns/s) | -0.011 0.011 | |
| | | | | | | Data rate(Mb/s): | 20 | ion window (TEC) | 0.00 0.00 | |
| | | | | | | nlags: | 640 | t_cohere | infinite | |

A: az 252.8 el 31.3 pa 102.4 o: az 194.5 el 25.5 pa 13.3 u,v (fr/asec) 5665.793 -9397.253 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ao..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ao.W.10.1SJ65A

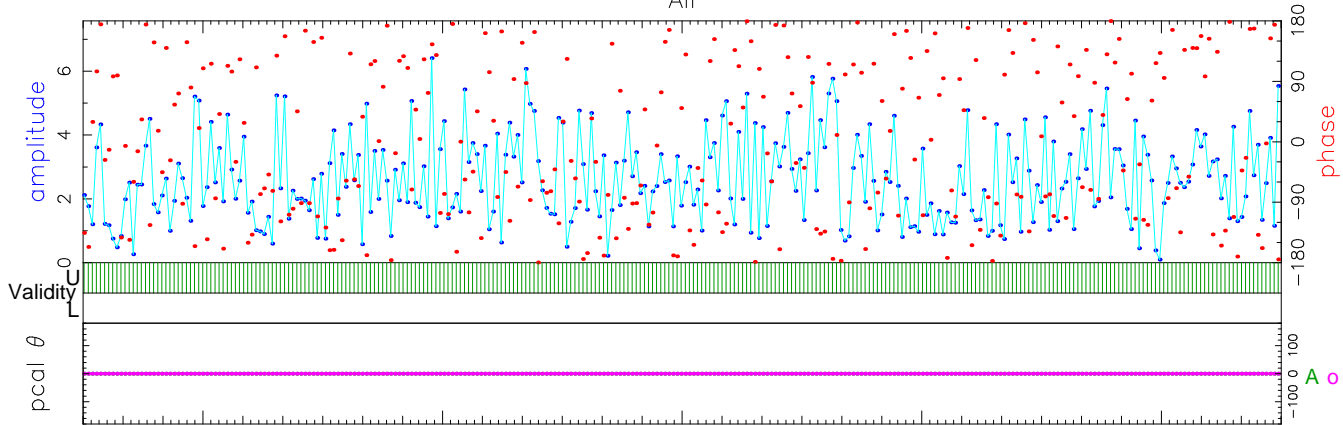
Fringe quality 8

SNR 9.8
Int time 299.984
Amp 2.526
Phase -194.7
PFD 3.2e-14
Delays (us)
SBD 31.813837
MBD 0.000005
Fringe rate (Hz)
0.648857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-173.4
0.8
1277.3
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W00UX
o W01UR

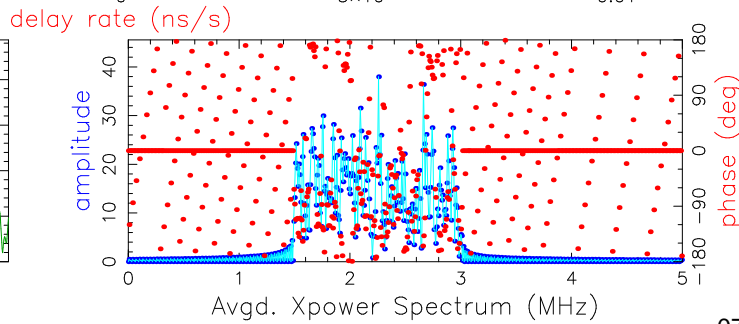
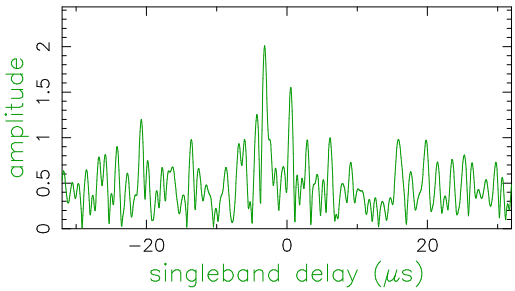
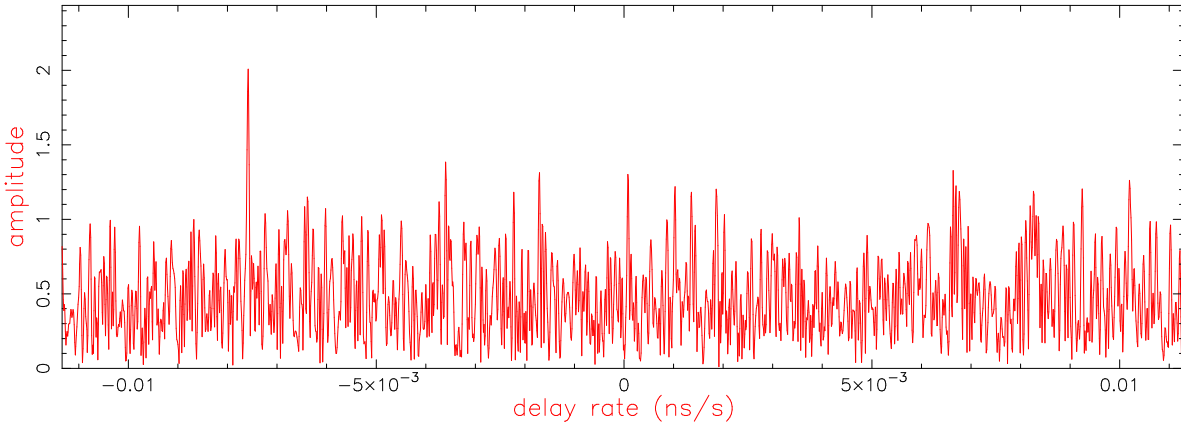
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -3.99587368349E+02 | Apriori delay (usec) | -4.31401210946E+02 | Resid mbdelay (usec) | 5.34583E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -3.99587374146E+02 | Apriori clock (usec) | -2.1113616E+03 | Resid sbdelay (usec) | 3.18138E+01 | +/- | 1.1E-02 |
| Phase delay (usec) | -4.31401216538E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -5.59200E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -8.80315518235E-01 | Apriori rate (us/s) | -8.80323050822E-01 | Resid rate (us/s) | 7.53259E-06 | +/- | 2.2E-09 |
| Total phase (deg) | -306.6 | Apriori accel (us/s/s) | 3.98796820465E-05 | Resid phase (deg) | -194.7 | +/- | 11.7 |

| | | | | | | | |
|--------------|------|--------|-------|-----------------|-----------------|--|-------------------------------|
| ph/seg (deg) | 90.2 | Theor. | 100.2 | Amplitude | 2.526 +/- 0.258 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 69.3 | | 174.8 | Search (2048X8) | 2.048 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | | 5.9 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | | 10.2 | Inc. seg. avg. | 1.255 | Sample rate(MSamp/s): 10 | mb window (us) -0.000 0.000 |
| | | | | Inc. frq. avg. | 2.511 | Data rate(Mb/s): 20 | dr window (ns/s) -0.011 0.011 |
| | | | | | | nlags: 640 | ion window (TEC) 0.00 0.00 |

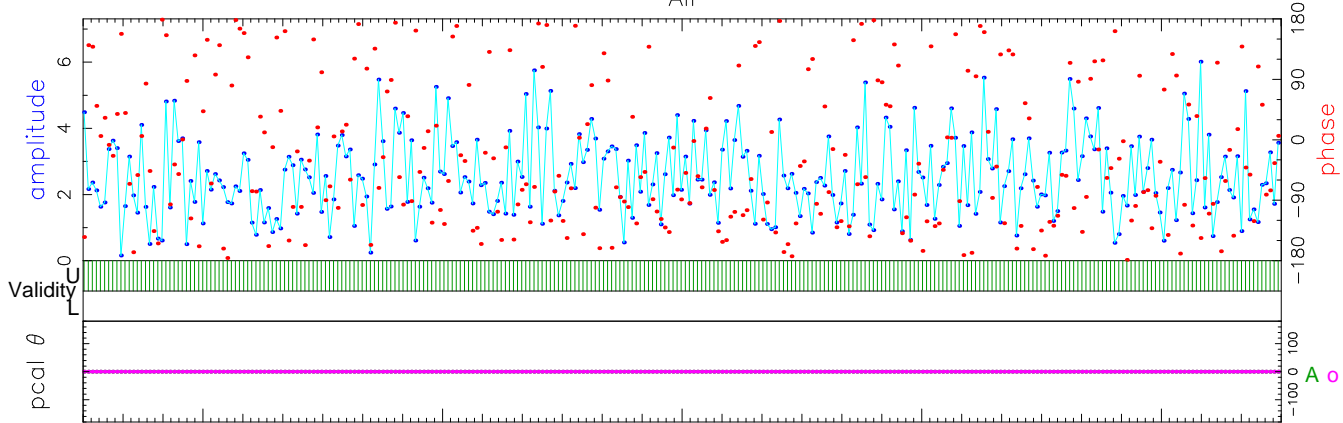
A: az 252.8 el 31.3 pa 102.4 o: az 194.5 el 25.5 pa 13.3 u,v (fr/asec) 5665.793 -9397.253 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ao..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ao.W.16.1SJ65A

Fringe quality 8



SNR 9.4
Int time 299.984
Amp 2.436
Phase 264.9
PFD 1.1e-12
Delays (us)
SBD -3.176026
MBD -0.000007
Fringe rate (Hz)
-0.652913
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134115
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-101.4
0.7
577.5
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W00UY
o W01UL

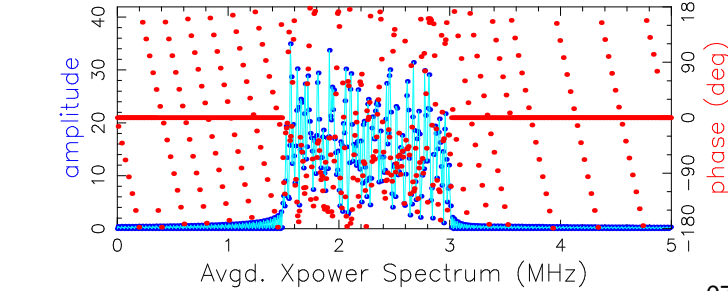
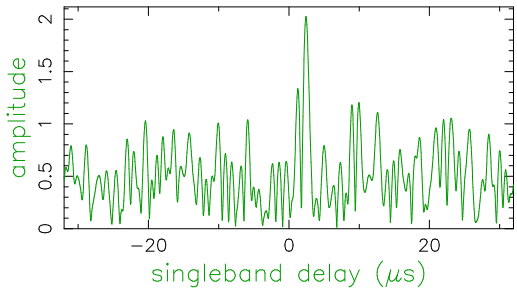
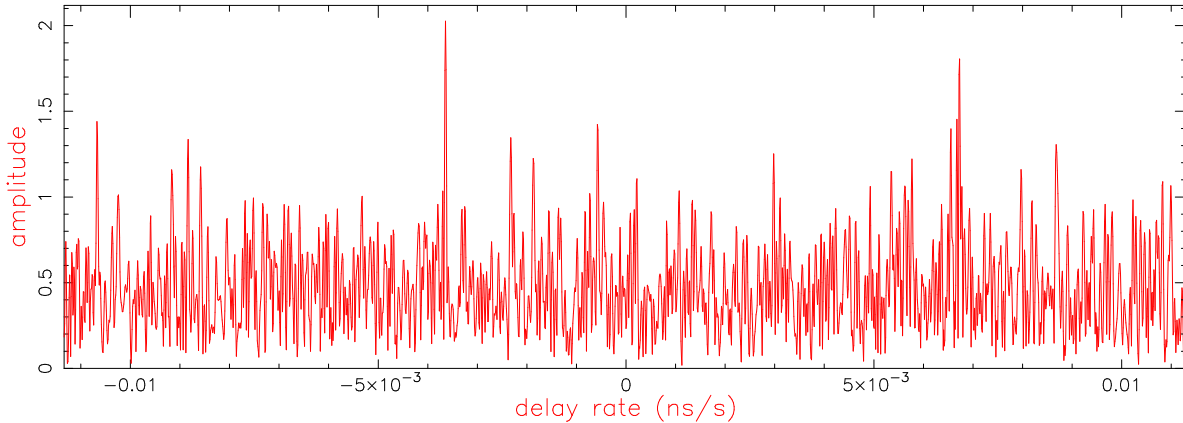
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -4.34577233209E+02 | Apriori delay (usec) | -4.31401210946E+02 | Resid mbdelay (usec) | -6.67676E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -4.34577236546E+02 | Apriori clock (usec) | -2.1113616E+03 | Resid sbdelay (usec) | -3.17603E+00 | +/- | 1.2E-02 |
| Phase delay (usec) | -4.31401214215E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -3.26879E-06 | +/- | 3.9E-07 |
| Delay rate (us/s) | -8.80330630496E-01 | Apriori rate (us/s) | -8.80323050822E-01 | Resid rate (us/s) | -7.57967E-06 | +/- | 2.3E-09 |
| Total phase (deg) | 153.0 | Apriori accel (us/s/s) | 3.98796820465E-05 | Resid phase (deg) | 264.9 | +/- | 12.2 |

| | | | | | | | |
|--------------|------|-----------------|-------|----------------|-----------------|--|-------------------------------|
| ph/seg (deg) | 89.4 | Theor. | 104.1 | Amplitude | 2.436 +/- 0.259 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 65.1 | Search (2048X8) | 1.982 | Search | 0.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.166 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.8 | Inc. frq. avg. | 2.417 | Inc. seg. avg. | 1.166 | Sample rate(MSamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | | | Inc. frq. avg. | 2.417 | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 |
| | | | | | | nlags: 640 | t_cohere infinite |

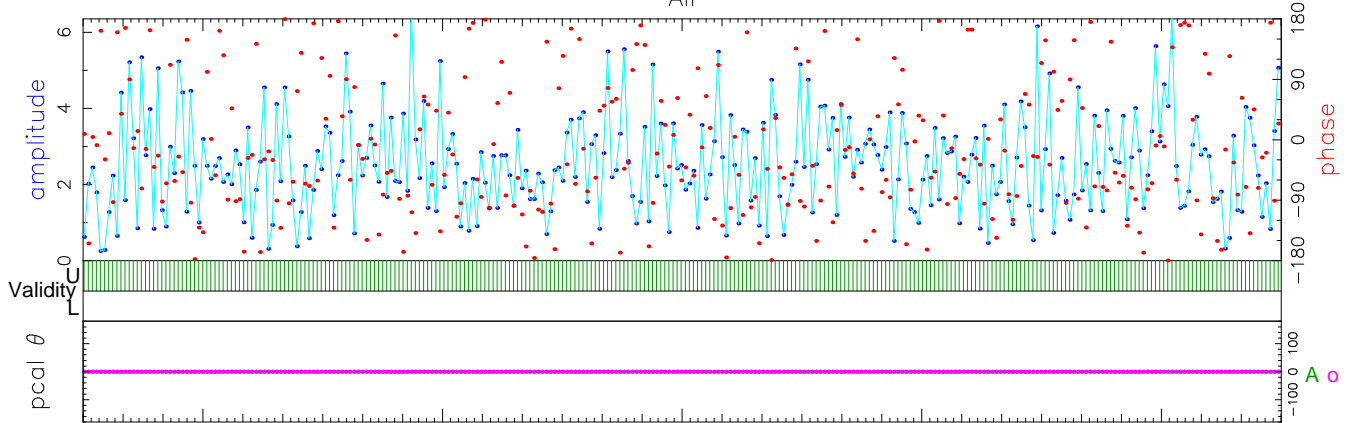
A: az 252.8 el 31.3 pa 102.4 o: az 194.5 el 25.5 pa 13.3 u,v (fr/asec) 5665.793 -9397.253 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ao..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ao.W.22.1SJ65A

Fringe quality 8



SNR 9.5
Int time 299.984
Amp 2.118
Phase -281.3
PFD 5.3e-13
Delays (us)
SBD 2.424227
MBD -0.000004
Fringe rate (Hz)
-0.313654
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-63.5
0.6
689.5
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W00UX
o W01UL

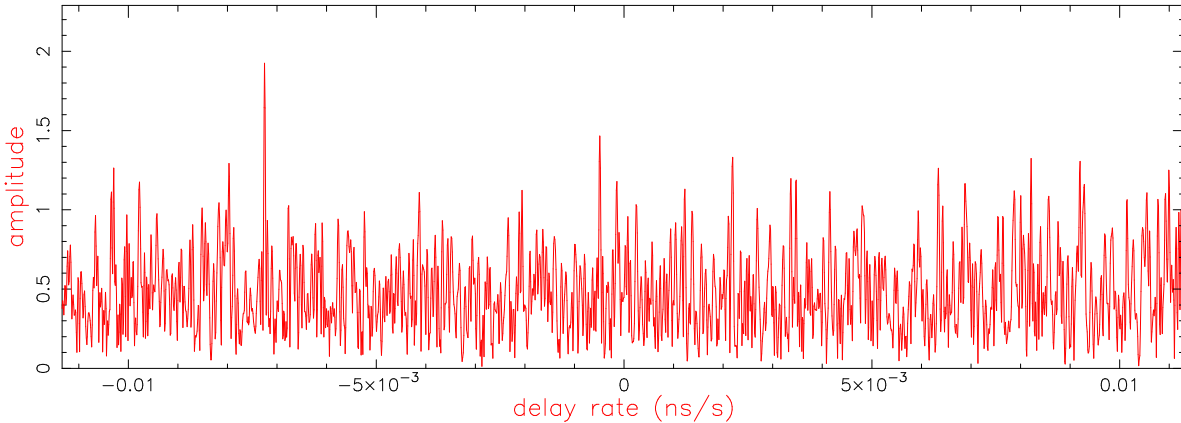
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -4.28976982725E+02 | Apriori delay (usec) | -4.31401210946E+02 | Resid mbdelay (usec) | -4.36337E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -4.28976983746E+02 | Apriori clock (usec) | -2.1113616E+03 | Resid sbdelay (usec) | 2.42423E+00 | +/- | 1.2E-02 |
| Phase delay (usec) | -4.31401212993E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -2.04615E-06 | +/- | 3.9E-07 |
| Delay rate (us/s) | -8.80326692037E-01 | Apriori rate (us/s) | -8.80323050822E-01 | Resid rate (us/s) | -3.64122E-06 | +/- | 2.2E-09 |
| Total phase (deg) | -33.2 | Apriori accel (us/s/s) | 3.98796820465E-05 | Resid phase (deg) | -281.3 | +/- | 12.1 |

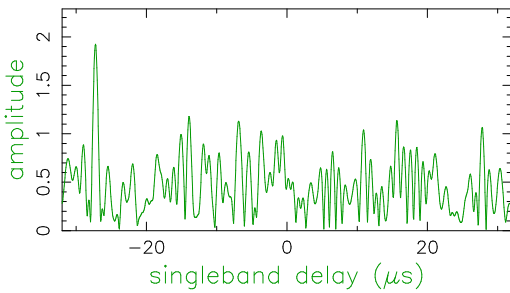
| | | | | | | | |
|---------------------------------|------|---|-------|---|-----------------|--|-------------------------------|
| ph/seg (deg) | 89.9 | Theor. | 103.2 | Amplitude | 2.118 +/- 0.223 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 67.8 | Search (2048X8) | 2.005 | Interp. | 0.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | Inc. seg. avg. | 1.011 | Inc. frq. avg. | 2.103 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | Inc. frq. avg. | 2.103 | Sample rate(MSamp/s): 10 | | Data rate(Mb/s): 20 | mb window (us) -0.000 0.000 |
| A: az 252.8 el 31.3 pa 102.4 | | o: az 194.5 el 25.5 pa 13.3 | | u,v (fr/asec) 5665.793 -9397.253 | | nlags: 640 t_cohere infinite | |
| Control file: cf_1234_gmva_line | | Input file: /Exps/c211d/v1/LINES/1234/No0019/Ao..1SJ65A | | Output file: /Exps/c211d/v1/LINES/1234/No0019/Ao.W.3.1SJ65A | | ion window (TEC) 0.00 0.00 | |

simultaneous interpolator

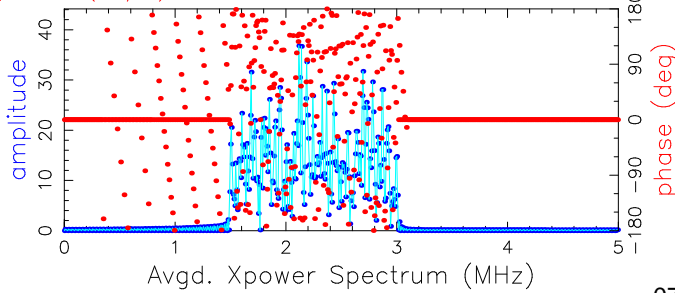
Fringe quality 8



SNR 9.0
Int time 299.984
Amp 2.289
Phase 344.0
PFD 5.1e-11
Delays (us)
SBD -27.249807
MBD -0.000005
Fringe rate (Hz)
-0.623786
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

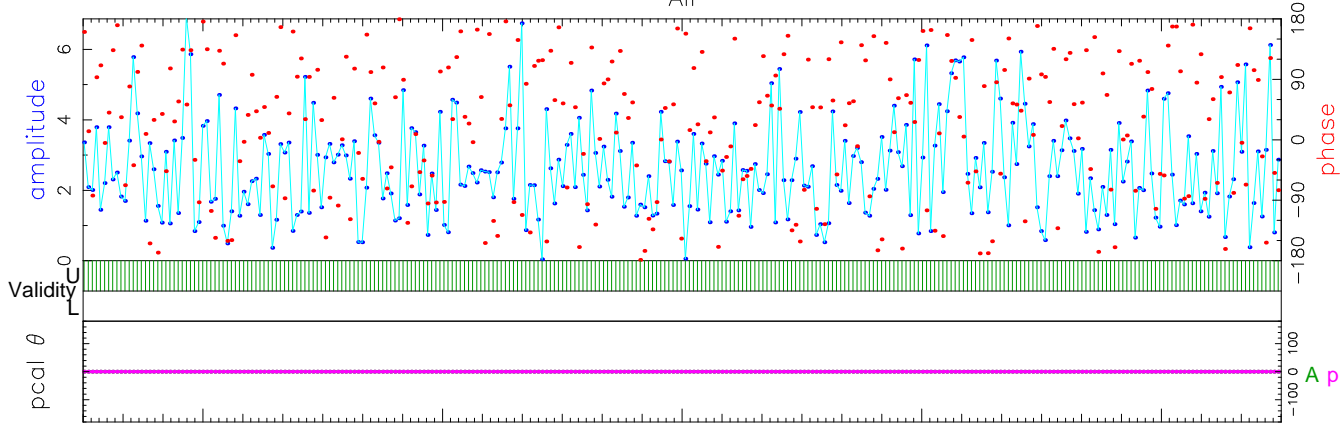


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134113
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
80.3
0.7
96.0
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W00UY
p W01UR

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) | -4.19398875129E+02 | Apriori delay (usec) | -3.92149064199E+02 | Resid mbdelay (usec) | -5.17549E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -4.19398872199E+02 | Apriori clock (usec) | -2.1131377E+03 | Resid sbdelay (usec) | -2.72498E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | -3.92149061608E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | 2.59104E-06 | +/- | 4.1E-07 |
| Delay rate (us/s) | -6.77524287376E-01 | Apriori rate (us/s) | -6.77517045835E-01 | Resid rate (us/s) | -7.24154E-06 | +/- | 2.4E-09 |
| Total phase (deg) | 203.6 | Apriori accel (us/s/s) | 3.76287974072E-05 | Resid phase (deg) | 344.0 | +/- | 12.7 |

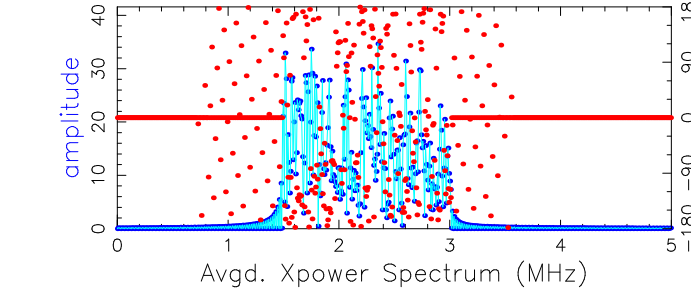
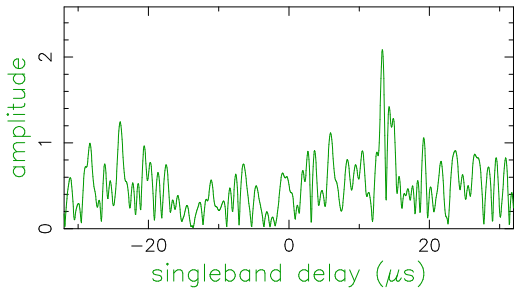
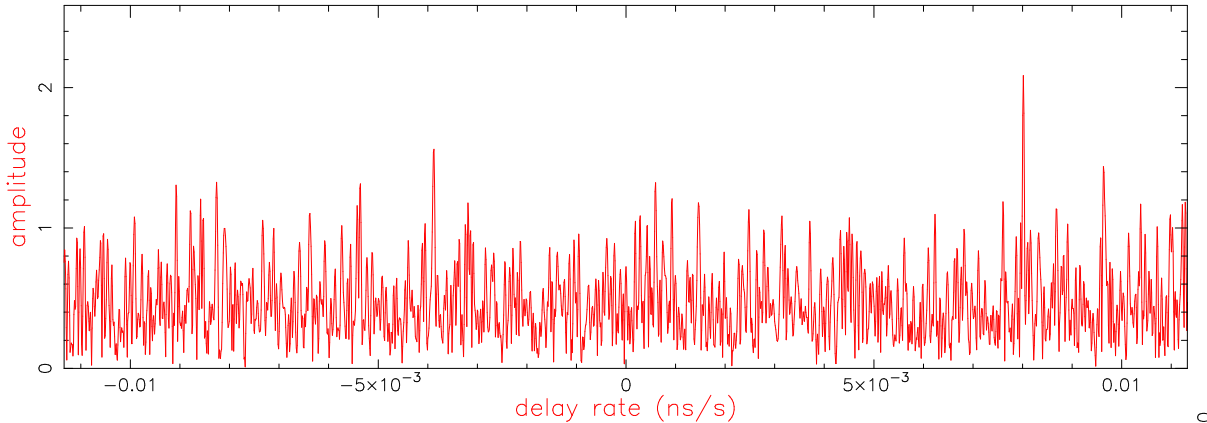
| | | | | | |
|--------------|----------|--------------|---------------------------|--|-------------------------------|
| ph/seg (deg) | RMS 93.7 | Theor. 108.9 | Amplitude 2.289 +/- 0.254 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 |
| amp/seg (%) | 79.4 | 190.1 | Search (2048X8) 1.909 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) -32.000 32.000 |
| ph/frq (deg) | 0.0 | 6.4 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled |
| amp/frq (%) | 69.7 | 11.1 | Inc. seg. avg. 1.109 | Sample rate(MISamp/s): 10 | dr window (ns/s) -0.011 0.011 |
| | | | Inc. frq. avg. 2.275 | Data rate(Mb/s): 20 | ion window (TEC) 0.00 0.00 |

A: az 252.8 el 31.3 pa 102.4 p: az 204.6 el 25.5 pa 23.0 u,v (fr/asec) 4372.189 -8991.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ap..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ap.W.11.1SJ65A

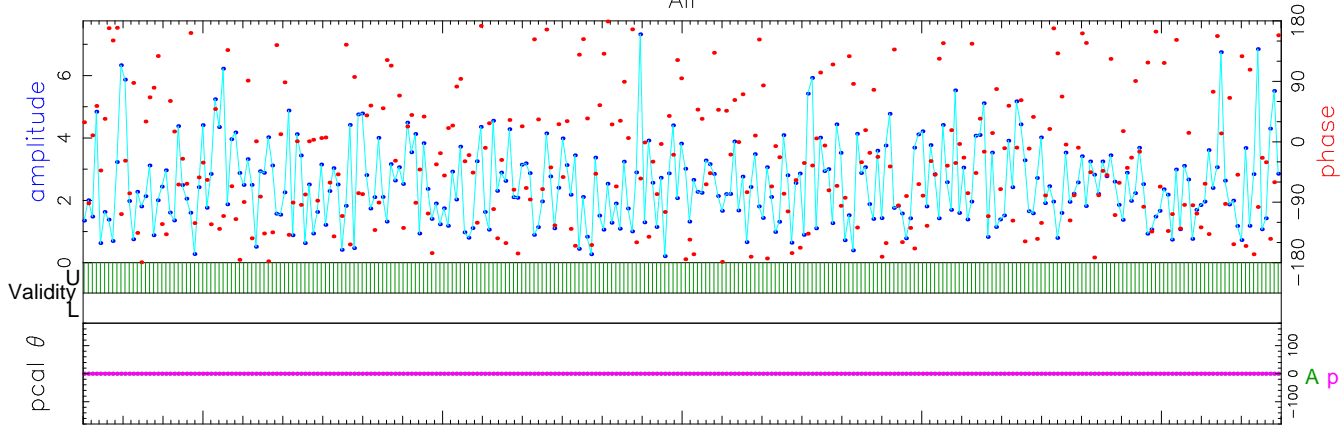
Fringe quality 8

SNR 9.8
Int time 299.984
Amp 2.585
Phase -55.6
PFD 4.1e-14
Delays (us)
SBD 13.307437
MBD 0.000006
Fringe rate (Hz)
0.689819
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134114
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"



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



86231.00
-64.2
0.8
907.1
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W00UX
p W01UR

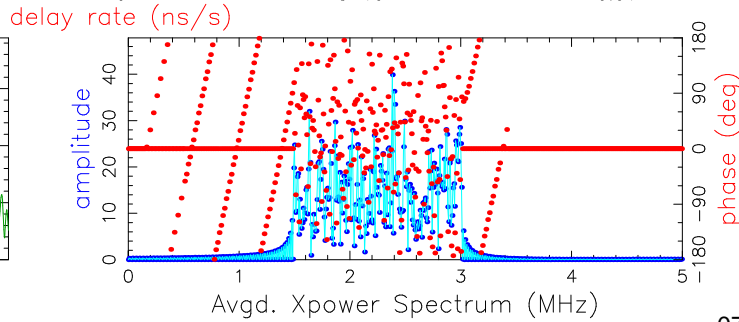
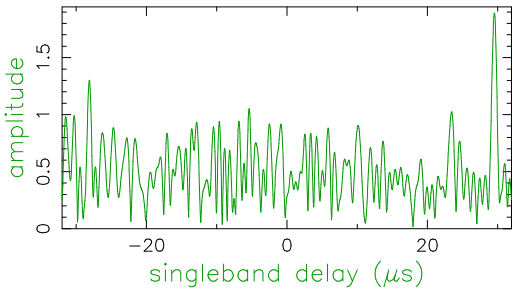
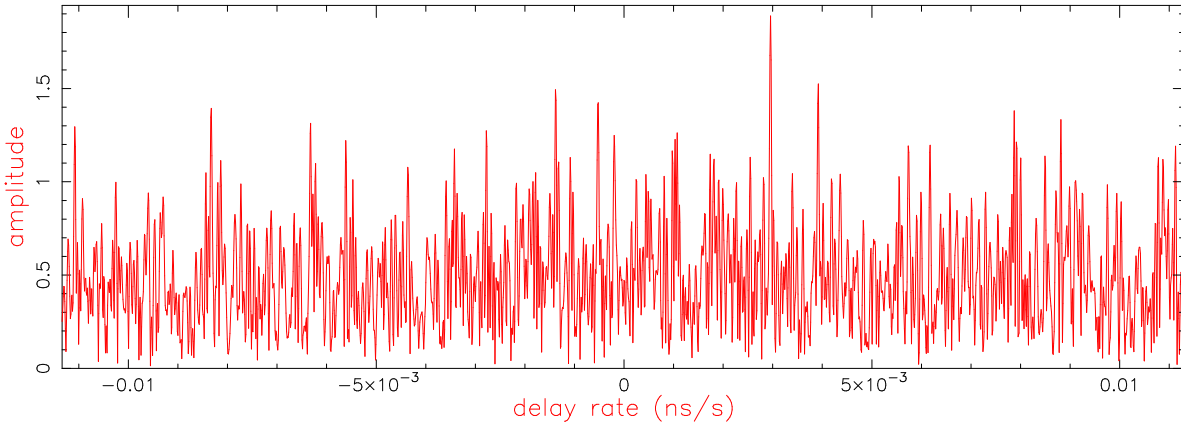
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -3.78841628649E+02 | Apriori delay (usec) | -3.92149064199E+02 | Resid mbdelay (usec) | 5.50698E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -3.78841627399E+02 | Apriori clock (usec) | -2.1131377E+03 | Resid sbdelay (usec) | 1.33074E+01 | +/- | 1.1E-02 |
| Phase delay (usec) | -3.92149066268E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -2.06918E-06 | +/- | 3.8E-07 |
| Delay rate (us/s) | -6.77509037722E-01 | Apriori rate (us/s) | -6.77517045835E-01 | Resid rate (us/s) | 8.00811E-06 | +/- | 2.2E-09 |
| Total phase (deg) | -196.0 | Apriori accel (us/s/s) | 3.76287974072E-05 | Resid phase (deg) | -55.6 | +/- | 11.7 |

| | | | | | | | | |
|--------------|----------|--------------|---------------------------|--|-----------------------|-------------------|---------|--------|
| ph/seg (deg) | RMS 90.5 | Theor. 100.4 | Amplitude 2.585 +/- 0.265 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 67.0 | 175.3 | Search (2048X8) 2.051 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | mb window (us) | -0.000 | 0.000 |
| ph/frq (deg) | 0.0 | 5.9 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.7 | 10.2 | Inc. seg. avg. 1.236 | Sample rate(MISamp/s): 10 | | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. 2.571 | Data rate(Mb/s): 20 | nlags: 640 | t_cohere infinite | | |

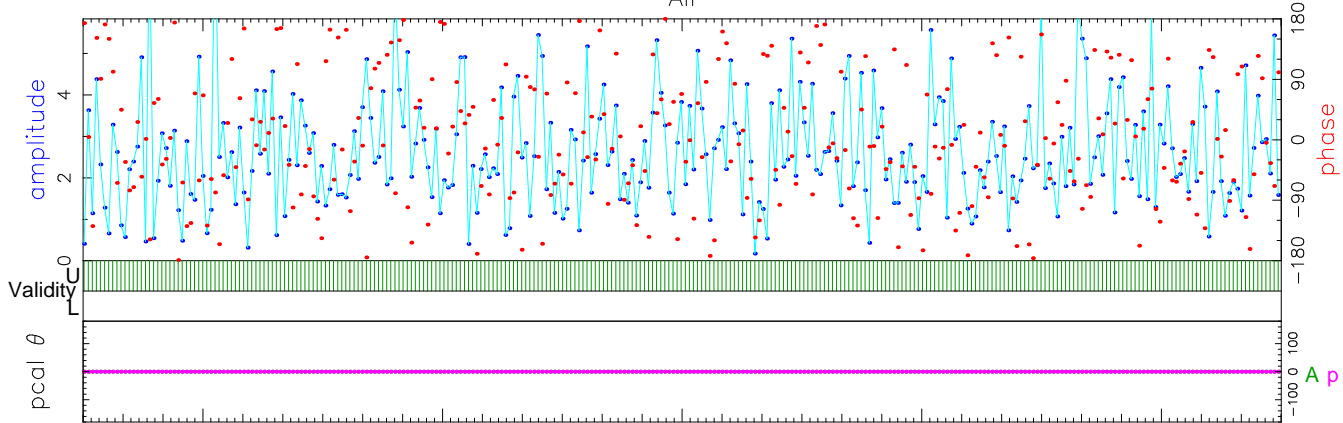
A: az 252.8 el 31.3 pa 102.4 p: az 204.6 el 25.5 pa 23.0 u,v (fr/asec) 4372.189 -8991.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ap..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ap.W.18.1SJ65A

Fringe quality 8



SNR 8.9
Int time 299.984
Amp 1.945
Phase -6.0
PFD 2.0e-10
Delays (us)
SBD 29.526985
MBD 0.000006
Fringe rate (Hz)
0.254137
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134115
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
-22.1
0.6
1231.5
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W00UY
p W01UL

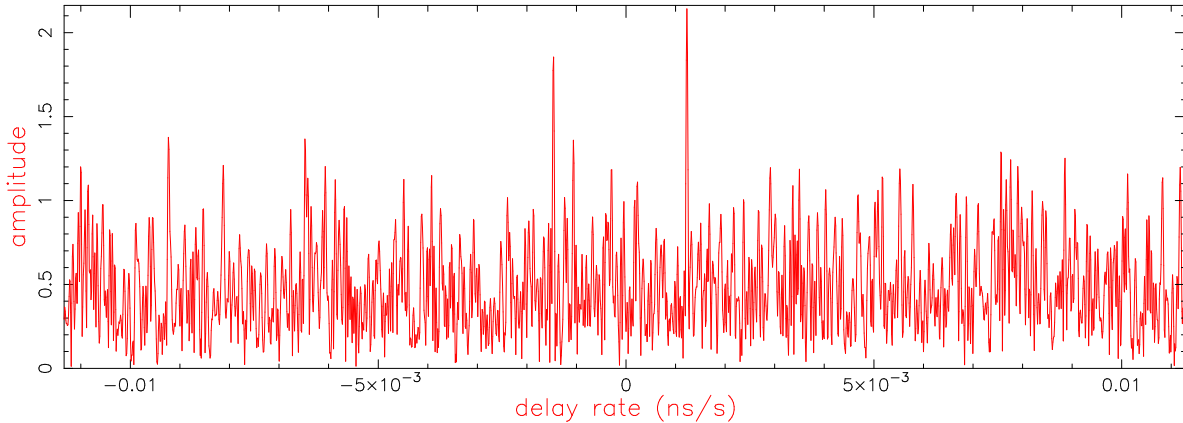
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | -3.62622078531E+02 | Apriori delay (usec) | -3.92149064199E+02 | Resid mbdelay (usec) | 5.81192E-06 | +/- | 1.2E-02 |
| Sband delay (usec) | -3.62622078599E+02 | Apriori clock (usec) | -2.1131377E+03 | Resid sbdelay (usec) | 2.95270E+01 | +/- | 1.2E-02 |
| Phase delay (usec) | -3.92149064912E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | -7.13139E-07 | +/- | 4.2E-07 |
| Delay rate (us/s) | -6.77514095559E-01 | Apriori rate (us/s) | -6.77517045835E-01 | Resid rate (us/s) | 2.95028E-06 | +/- | 2.4E-09 |
| Total phase (deg) | -146.4 | Apriori accel (us/s/s) | 3.76287974072E-05 | Resid phase (deg) | -6.0 | +/- | 12.9 |

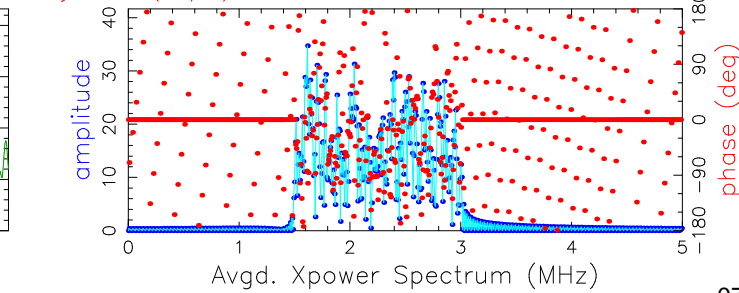
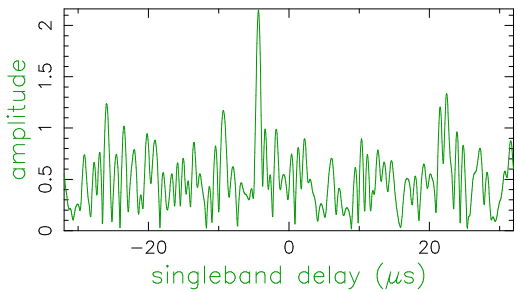
| | | | | | | | | | | |
|--------------|----------|--------------|---------------------------|-----------------|-------|--|--------------------------|------------------|---------|--------|
| ph/seg (deg) | RMS 94.7 | Theor. 110.8 | Amplitude Search (2048X8) | 1.945 +/- 0.220 | 1.830 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 82.6 | 193.3 | Interp. | 0.000 | 0.949 | 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. | 0.949 | 1.930 | Bits/sample: 2x2 | Sample rate(MSamp/s): 10 | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.7 | 11.3 | Inc. frq. avg. | 1.930 | | Data rate(Mb/s): 20 | nlags: 640 | ion window (TEC) | 0.00 | 0.00 |

A: az 252.8 el 31.3 pa 102.4 p: az 204.6 el 25.5 pa 23.0 u,v (fr/asec) 4372.189 -8991.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ap..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ap.W.24.1SJ65A

Fringe quality 7

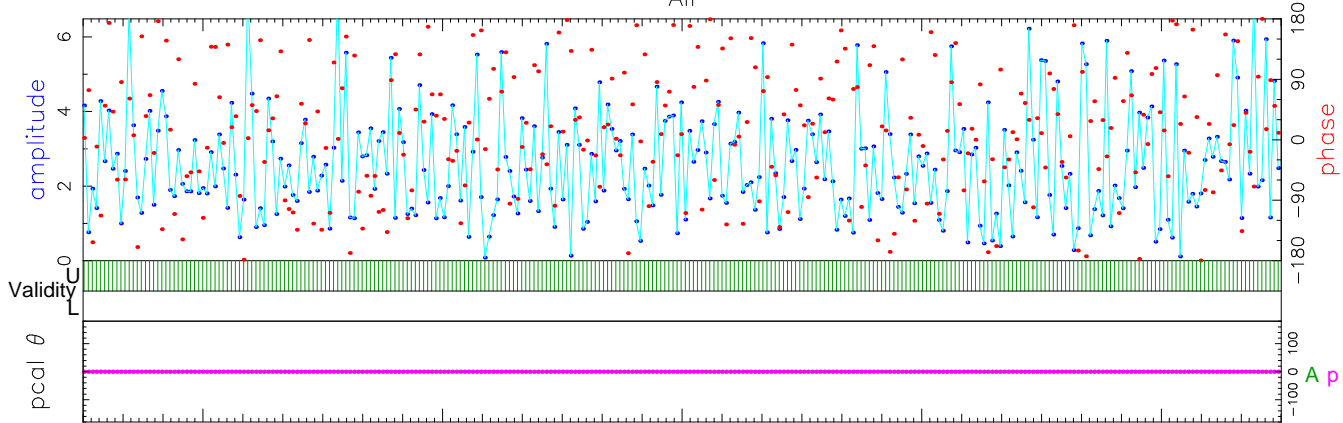


SNR 10.1
Int time 299.984
Amp 2.162
Phase 230.2
PFD 2.0e-15
Delays (us)
SBD -4.335818
MBD 0.000005
Fringe rate (Hz)
0.105497
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 015430.00
Stop 015930.03
FRT 015700.00
Corr/FF/build
2021:216:040236
2021:216:134111
2021:057:122453
RA & Dec (J2000)
07h22m58.337769s
-25°46'03.379411"

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



86231.00
28.8
0.7
554.3
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W00UX
p W01UL

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) | -3.96484878190E+02 | Apriori delay (usec) | -3.92149064199E+02 | Resid mbdelay (usec) | 4.91433E-06 | +/- | 1.1E-02 |
| Sband delay (usec) | -3.96484881799E+02 | Apriori clock (usec) | -2.1131377E+03 | Resid sbdelay (usec) | -4.33582E+00 | +/- | 1.1E-02 |
| Phase delay (usec) | -3.92149063270E+02 | Apriori clockrate (us/s) | -1.2300000E-06 | Resid phdelay (usec) | 9.29213E-07 | +/- | 3.7E-07 |
| Delay rate (us/s) | -6.77515821115E-01 | Apriori rate (us/s) | -6.77517045835E-01 | Resid rate (us/s) | 1.22472E-06 | +/- | 2.1E-09 |
| Total phase (deg) | 89.8 | Apriori accel (us/s/s) | 3.76287974072E-05 | Resid phase (deg) | 230.2 | +/- | 11.4 |

| | | | | | | | | |
|--------------|----------|-------------|---------------------------|--|-----------------------|-------------------|---------|--------|
| ph/seg (deg) | RMS 90.6 | Theor. 97.4 | Amplitude 2.162 +/- 0.215 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -32.000 | 32.000 |
| amp/seg (%) | 71.0 | 170.0 | Search (2048X8) 2.087 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | mb window (us) | -0.000 | 0.000 |
| ph/frq (deg) | 0.0 | 5.7 | Interp. 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 69.8 | 9.9 | Inc. seg. avg. 1.069 | Sample rate(MISamp/s): 10 | | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. 2.141 | Data rate(Mb/s): 20 | nlags: 640 | t_cohere infinite | | |

A: az 252.8 el 31.3 pa 102.4 p: az 204.6 el 25.5 pa 23.0 u,v (fr/asec) 4372.189 -8991.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES/1234/No0019/Ap..1SJ65A Output file: /Exps/c211d/v1/LINES/1234/No0019/Ap.W.4.1SJ65A