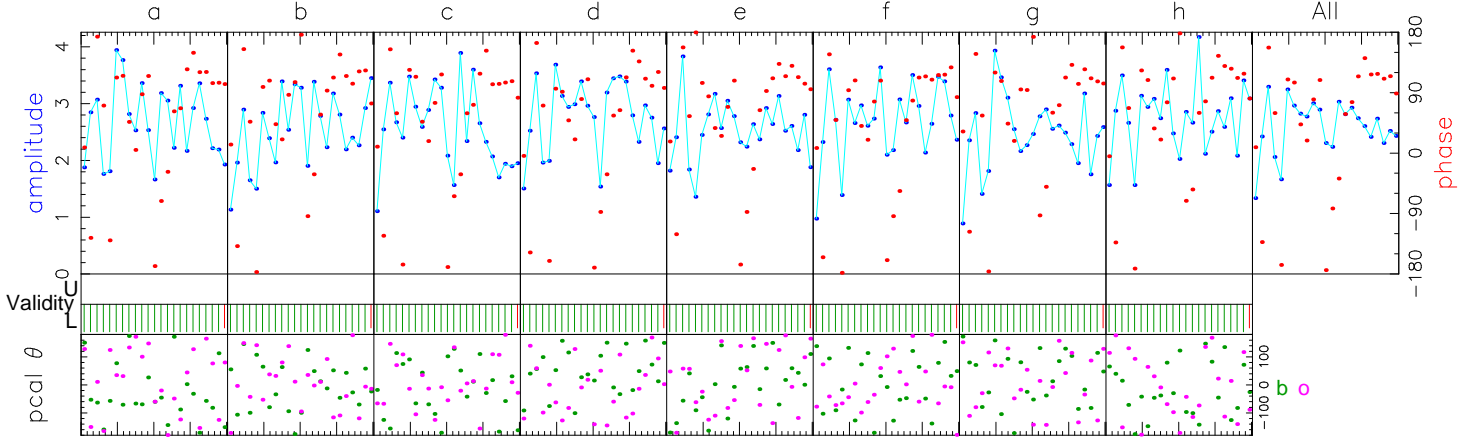
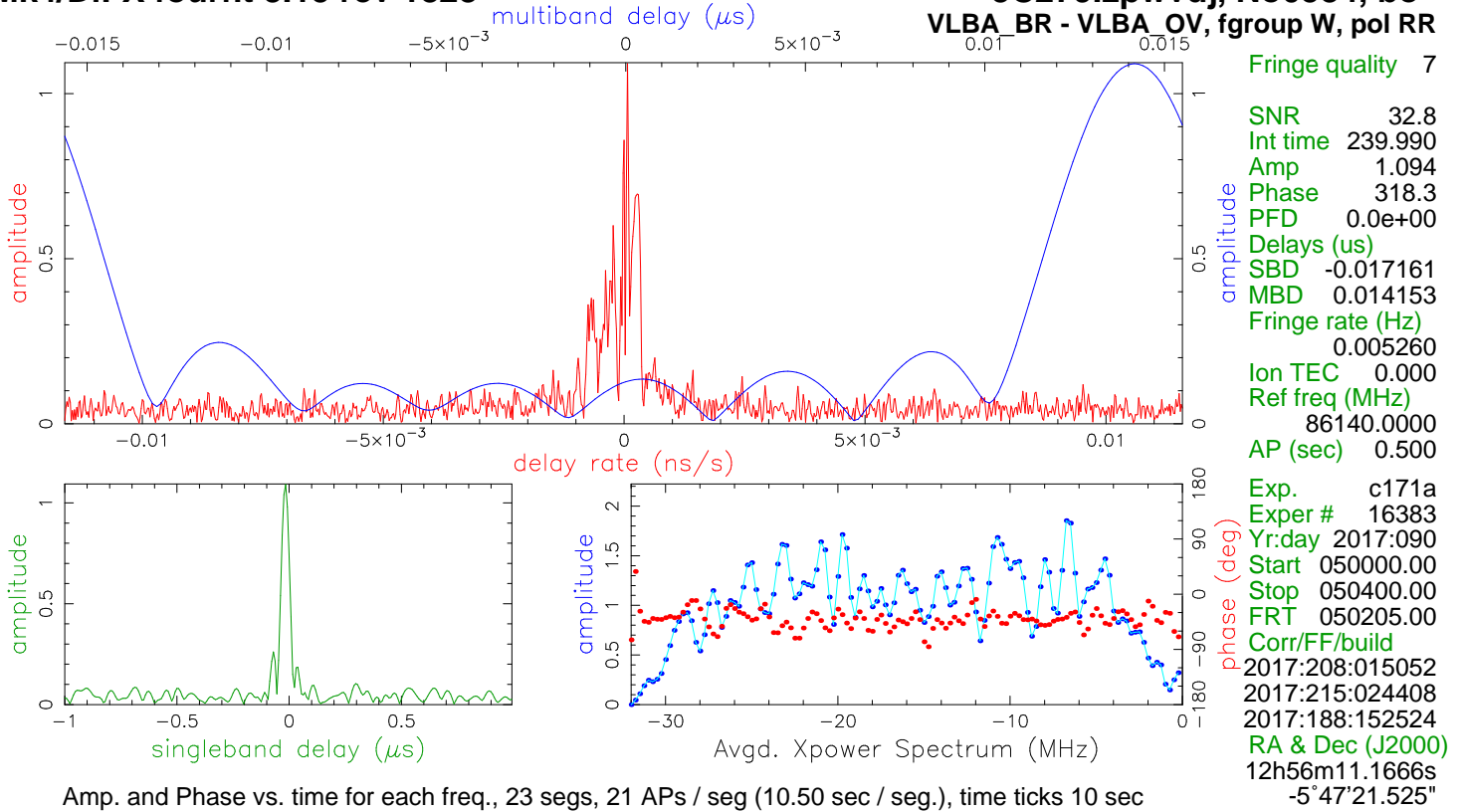


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

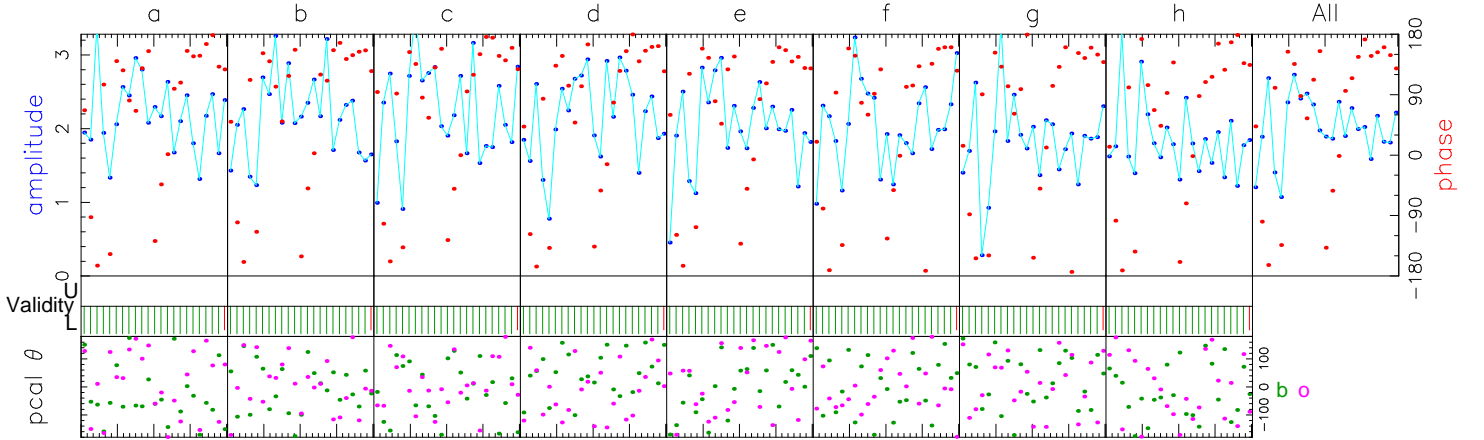


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------------------|--------------|----------|----------|------------|-----|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| b | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| b:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| b:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| b | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| b | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| Group delay (usec)(sbd) | -2.38452843403E+03 | | Apriori delay (usec) | -2.38451093970E+03 | Resid mbdelay (usec) | 1.37557E-02 | +/- | 5.1E-05 | | |
| Sband delay (usec) | -2.38452870320E+03 | | Apriori clock (usec) | -6.6428852E+00 | Resid sbdelay (usec) | -1.77635E-02 | +/- | 4.1E-04 | | |
| Phase delay (usec) | -2.38451093644E+03 | | Apriori clockrate (us/s) | -2.4721710E-07 | Resid phdelay (usec) | 3.26043E-06 | +/- | 8.7E-08 | | |
| Delay rate (us/s) | -1.31494374632E-01 | | Apriori rate (us/s) | -1.31494434466E-01 | Resid rate (us/s) | 5.98343E-08 | +/- | 6.3E-10 | | |
| Total phase (deg) | | 156.5 | Apriori accel (us/s/s) | 1.10291634254E-05 | Resid phase (deg) | 281.1 | +/- | 2.7 | | |

ph/seg (deg) 69.9 6.5 Theor. Amplitude 1.420 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.8 11.3 Search (1024X32) 1.349 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 2.6 3.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 6.8 6.7 Inc. seg. avg. 2.575 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.17.zpwvdj simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

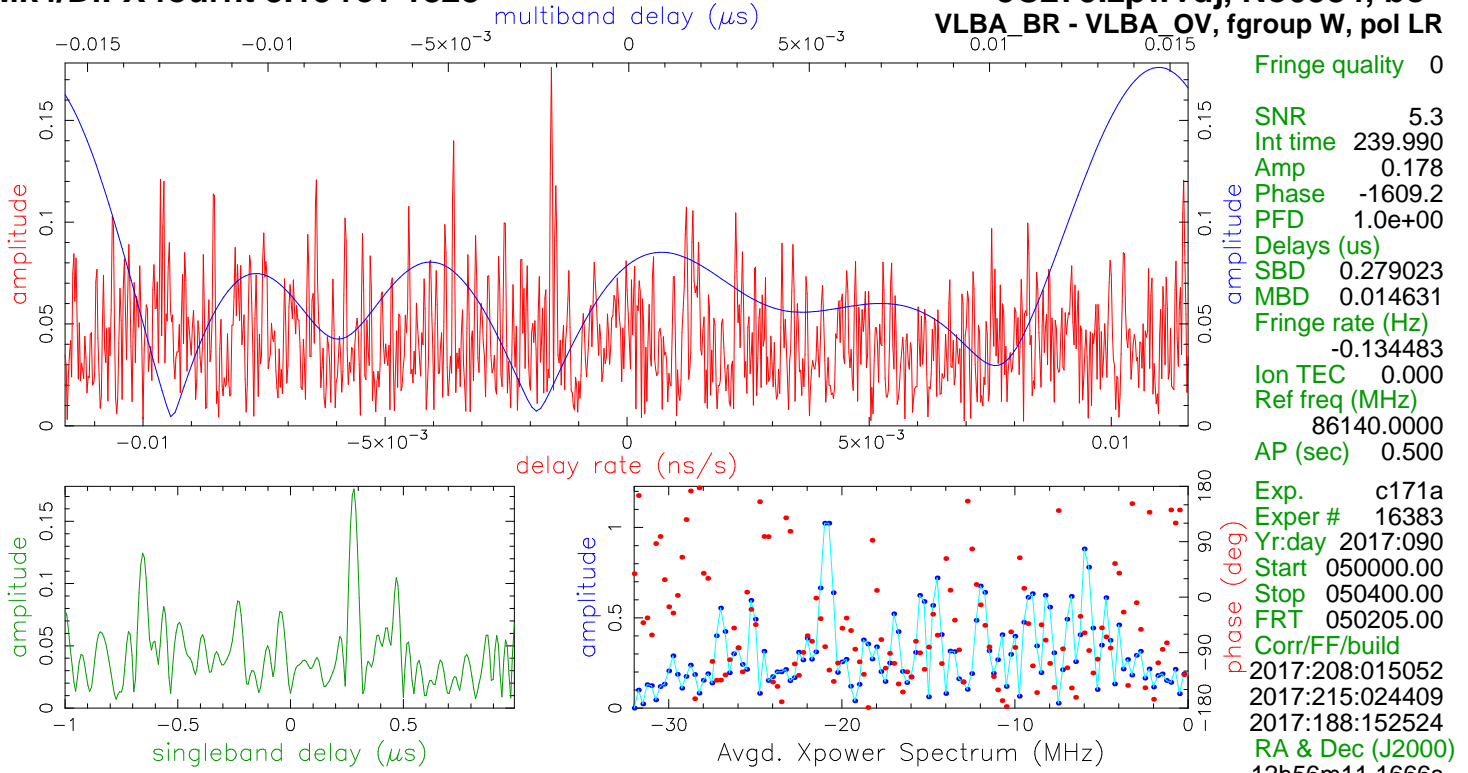


| | | | | | | | | | |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| 136.4 | 138.9 | 139.9 | 138.8 | 135.5 | 135.5 | 144.3 | 137.3 | Phase | 138.3 |
| 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 | Ampl. | 1.1 |
| 127.0 | 126.8 | 126.7 | 127.0 | 126.6 | 126.8 | 126.6 | 127.1 | Sbd box | 126.8 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| b -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| b:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| b:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| b 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| b W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.38452803641E+03 | | Apriori delay (usec) | -2.38451093970E+03 | | Resid mbdelay (usec) | 1.41533E-02 | +/- | 6.6E-05 |
| Sband delay (usec) | -2.38452810070E+03 | | Apriori clock (usec) | -6.6428852E+00 | | Resid sbdelay (usec) | -1.71610E-02 | +/- | 5.3E-04 |
| Phase delay (usec) | -2.38451093524E+03 | | Apriori clockrate (us/s) | -2.4721710E-07 | | Resid phdelay (usec) | 4.46009E-06 | +/- | 1.1E-07 |
| Delay rate (us/s) | -1.31494373409E-01 | | Apriori rate (us/s) | -1.31494434466E-01 | | Resid rate (us/s) | 6.10576E-08 | +/- | 8.1E-10 |
| Total phase (deg) | | 193.7 | Apriori accel (us/s/s) | 1.10291634254E-05 | | Resid phase (deg) | 318.3 | +/- | 3.5 |

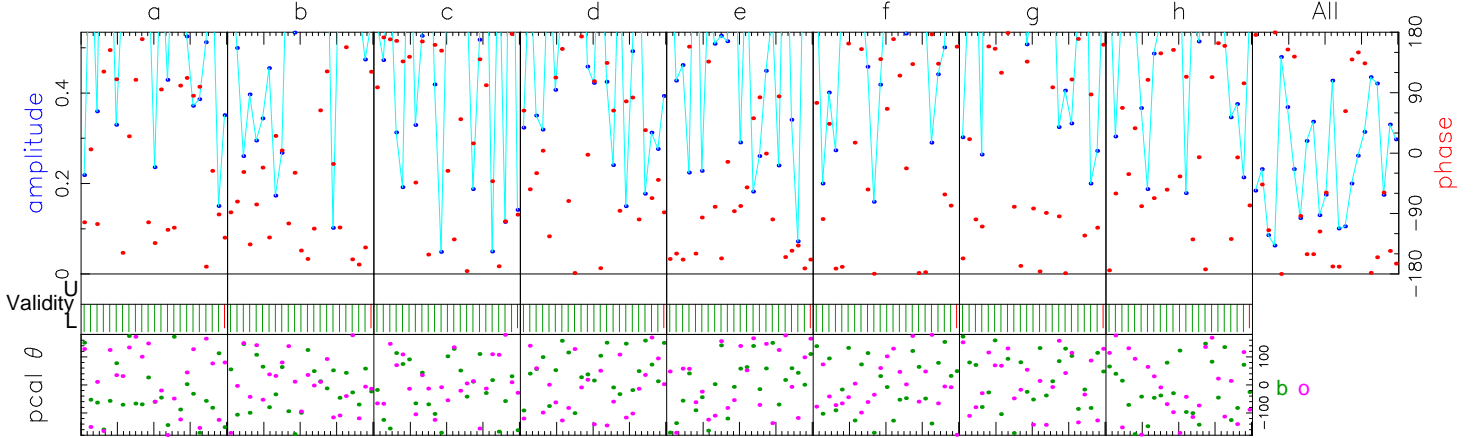
| | | | | | | | | | | |
|--------------|------|------------|------------------|-----------------|--|------------------------------|------|------------------|--------|-------|
| ph/seg (deg) | 68.5 | Theor. 8.4 | Amplitude | 1.094 +/- 0.033 | Pcal mode: MANUAL, MANUAL | PC period (AP's) | 5, 5 | sb window (us) | -1.000 | 1.000 |
| amp/seg (%) | 92.9 | 14.6 | Search (1024X32) | 1.033 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 3.2 | 4.9 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | | dr window (ns/s) | -0.012 | 0.012 |
| amp/frq (%) | 10.1 | 8.6 | Inc. seg. avg. | 1.997 | Sample rate(MSamp/s): 64 | | | ion window (TEC) | 0.00 | 0.00 |
| | | | Inc. frq. avg. | 1.088 | Data rate(Mb/s): 1024 | nlags: 128 t_cohere infinite | | | | |

b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.18.zpwvdj



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

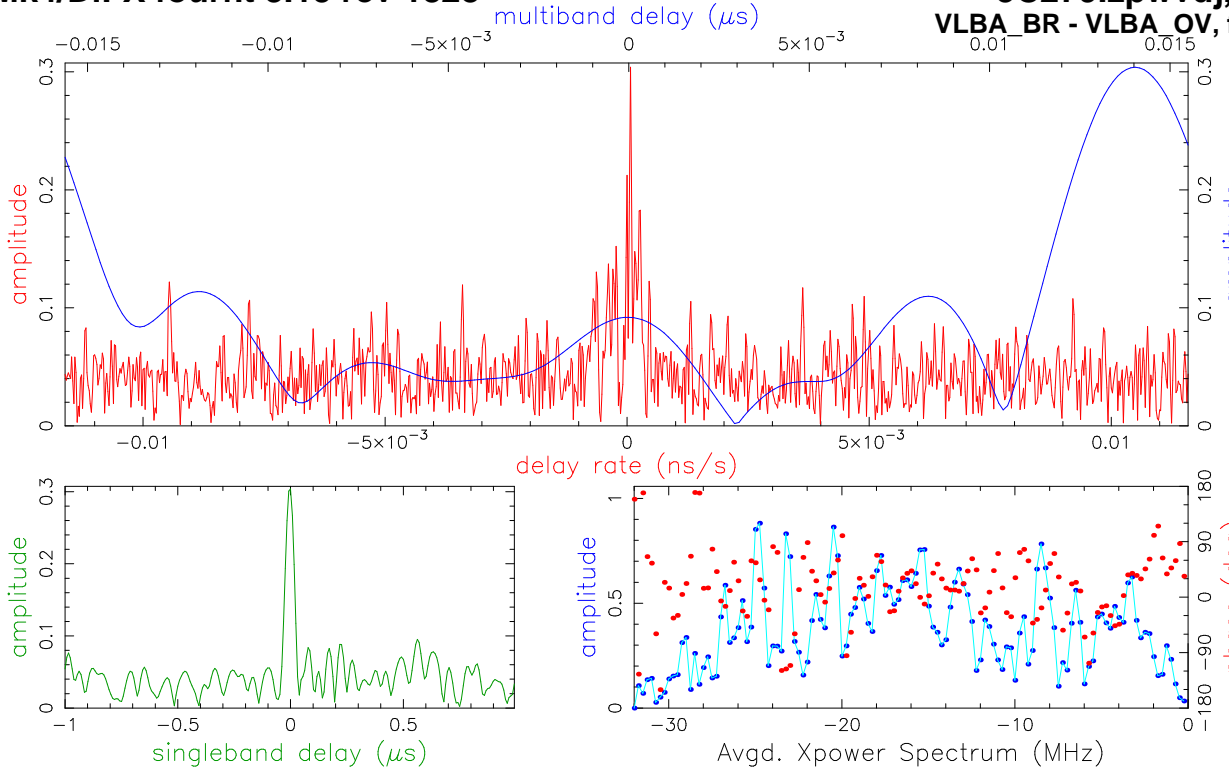


| | | | | | | | | | |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| 143.4 | -134.7 | 164.9 | -124.7 | -135.3 | 149.3 | -172.6 | -123.0 | Phase | -169.2 |
| 0.1 | 0.2 | 0.3 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | Ampl. | 0.2 |
| 173.4 | 23.0 | 34.4 | 127.1 | 145.6 | 239.4 | 165.0 | 238.8 | Sbd box | 164.7 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| b -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| b:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| b:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| b 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| b W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.38424630919E+03 | | Apriori delay (usec) | -2.38451093970E+03 | | Resid mbdelay (usec) | 1.46305E-02 | +/- | 4.1E-04 |
| Sband delay (usec) | -2.38423191720E+03 | | Apriori clock (usec) | -6.6428852E+00 | | Resid sbdelay (usec) | 2.79023E-01 | +/- | 3.3E-03 |
| Phase delay (usec) | -2.38451094516E+03 | | Apriori clockrate (us/s) | -2.4721710E-07 | | Resid phdelay (usec) | -5.45748E-06 | +/- | 7.0E-07 |
| Delay rate (us/s) | -1.31495995678E-01 | | Apriori rate (us/s) | -1.31494434466E-01 | | Resid rate (us/s) | -1.56121E-06 | +/- | 5.0E-09 |
| Total phase (deg) | | -1733.8 | Apriori accel (us/s/s) | 1.10291634254E-05 | | Resid phase (deg) | -1609.2 | +/- | 21.6 |

| | | | | | | | | | |
|--------------|------|-------------|----------------------------|-------|--|------------------------------|------------------|--------|-------|
| ph/seg (deg) | 59.4 | Theor. 51.9 | Amplitude Search (1024X32) | 0.171 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -1.000 | 1.000 |
| amp/seg (%) | 80.4 | 90.5 | Interp. | 0.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 43.0 | 30.6 | Inc. seg. avg. | 0.179 | Bits/sample: 2x2 | SampCntNorm: enabled | dr window (ns/s) | -0.012 | 0.012 |
| amp/frq (%) | 55.8 | 53.4 | Inc. frq. avg. | 0.185 | Sample rate(MSamp/s): 64 | | ion window (TEC) | 0.00 | 0.00 |
| | | | | | Data rate(Mb/s): 1024 | nlags: 128 t_cohere infinite | | | |

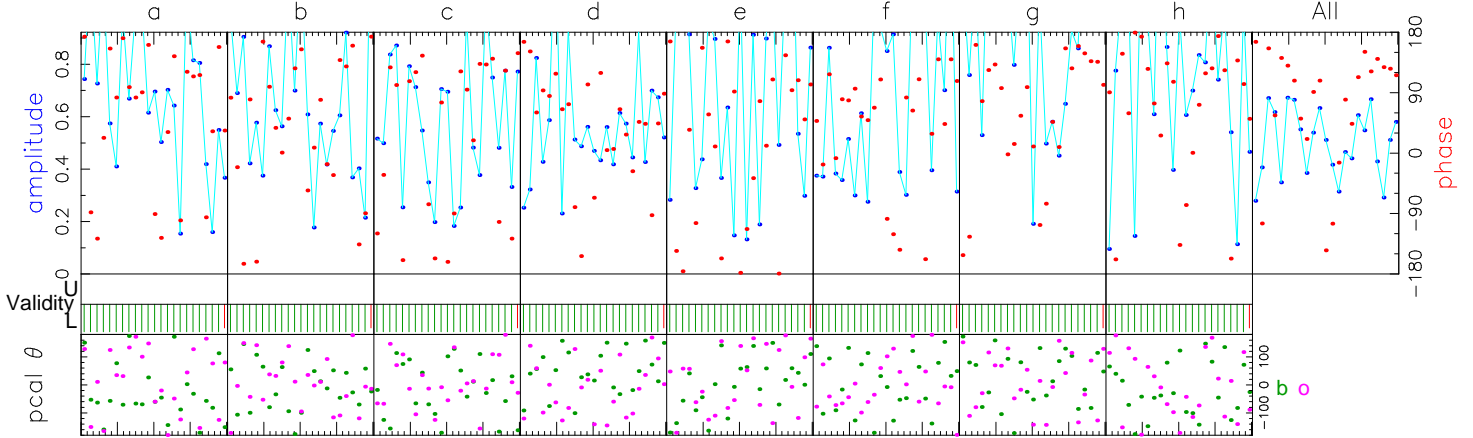
b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.19.zpwvdj



Fringe quality 9
 SNR 9.2
 Int time 239.990
 Amp 0.307
 Phase 295.2
 PFD 3.2e-12
 Delays (us)
 SBD -0.003291
 MBD 0.014052
 Fringe rate (Hz) 0.004958
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024410
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

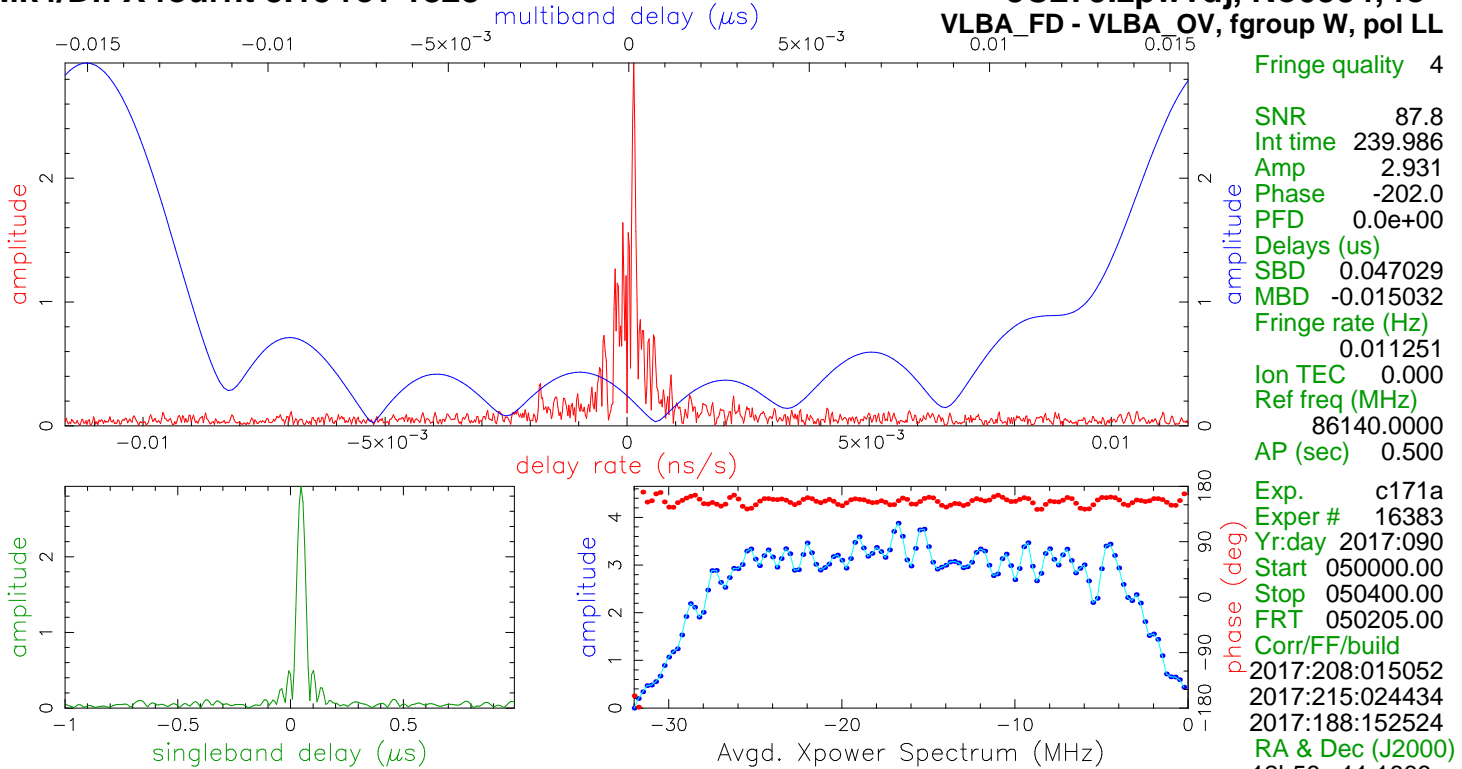


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|------------|-------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 115.2 | 115.2 |
| b | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 0.3 | 0.3 |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 0.4 | 0.4 |
| b:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 127.9 | 127.9 |
| b:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 129.5 | 129.5 |
| b | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 128.6 | 128.6 |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| b | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |

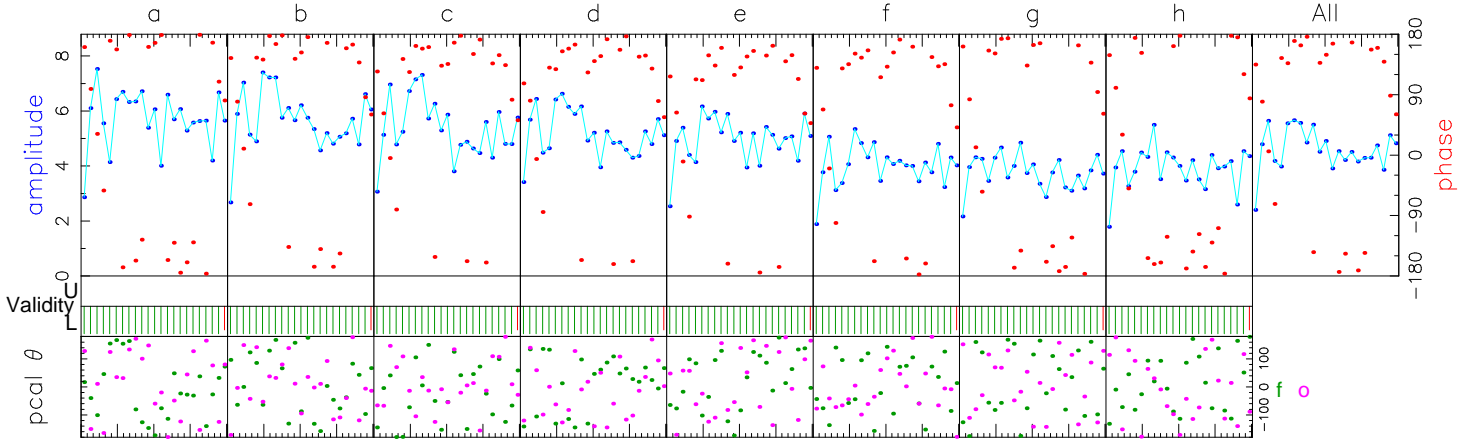
Group delay (usec)(sbd) -2.38452813772E+03 Apriori delay (usec) -2.38451093970E+03 Resid mbdelay (usec) 1.40520E-02 +/- 2.4E-04
 Sband delay (usec) -2.38451423020E+03 Apriori clock (usec) -6.6428852E+00 Resid sbdelay (usec) -3.29050E-03 +/- 1.9E-03
 Phase delay (usec) -2.38451093599E+03 Apriori clockrate (us/s) -2.4721710E-07 Resid phdelay (usec) 3.71448E-06 +/- 4.0E-07
 Delay rate (us/s) -1.31494376910E-01 Apriori rate (us/s) -1.31494434466E-01 Resid rate (us/s) 5.75560E-08 +/- 2.9E-09
 Total phase (deg) 170.6 Apriori accel (us/s/s) 1.10291634254E-05 Resid phase (deg) 295.2 +/- 12.4

RMS Theor. Amplitude 0.307 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 65.1 29.8 Search (1024X32) 0.276 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 75.1 52.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 23.6 17.6 Inc. seg. avg. 0.442 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 28.5 30.7 Inc. frq. avg. 0.307 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.20.zpwvdj



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| 178.8 | 160.9 | 148.6 | 145.3 | 135.6 | 147.0 | 168.3 | -173.3 | Phase | 158.0 |
| 3.6 | 3.5 | 3.4 | 3.4 | 3.2 | 2.6 | 2.2 | 2.4 | Ampl. | 3.1 |
| 135.0 | 134.9 | 134.9 | 135.2 | 134.9 | 135.1 | 135.3 | 135.2 | Sbd box | 135.0 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| f -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| f:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| f:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | |
| f 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| f W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 4.09690648927E+03 | | Apriori delay (usec) | 4.09685902092E+03 | | Resid mbdelay (usec) | -1.50317E-02 | +/- | 2.5E-05 |
| Sband delay (usec) | 4.09690604942E+03 | | Apriori clock (usec) | -2.9324386E+00 | | Resid sbdelay (usec) | 4.70285E-02 | +/- | 2.0E-04 |
| Phase delay (usec) | 4.09685902602E+03 | | Apriori clockrate (us/s) | -6.8065150E-07 | | Resid phdelay (usec) | 5.09444E-06 | +/- | 4.2E-08 |
| Delay rate (us/s) | -1.76157974160E-01 | | Apriori rate (us/s) | -1.76158104776E-01 | | Resid rate (us/s) | 1.30616E-07 | +/- | 3.0E-10 |
| Total phase (deg) | | -179.6 | Apriori accel (us/s/s) | -2.06974181303E-05 | | Resid phase (deg) | -202.0 | +/- | 1.3 |

ph/seg (deg) 56.5 3.1 Theor. Amplitude 2.931 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

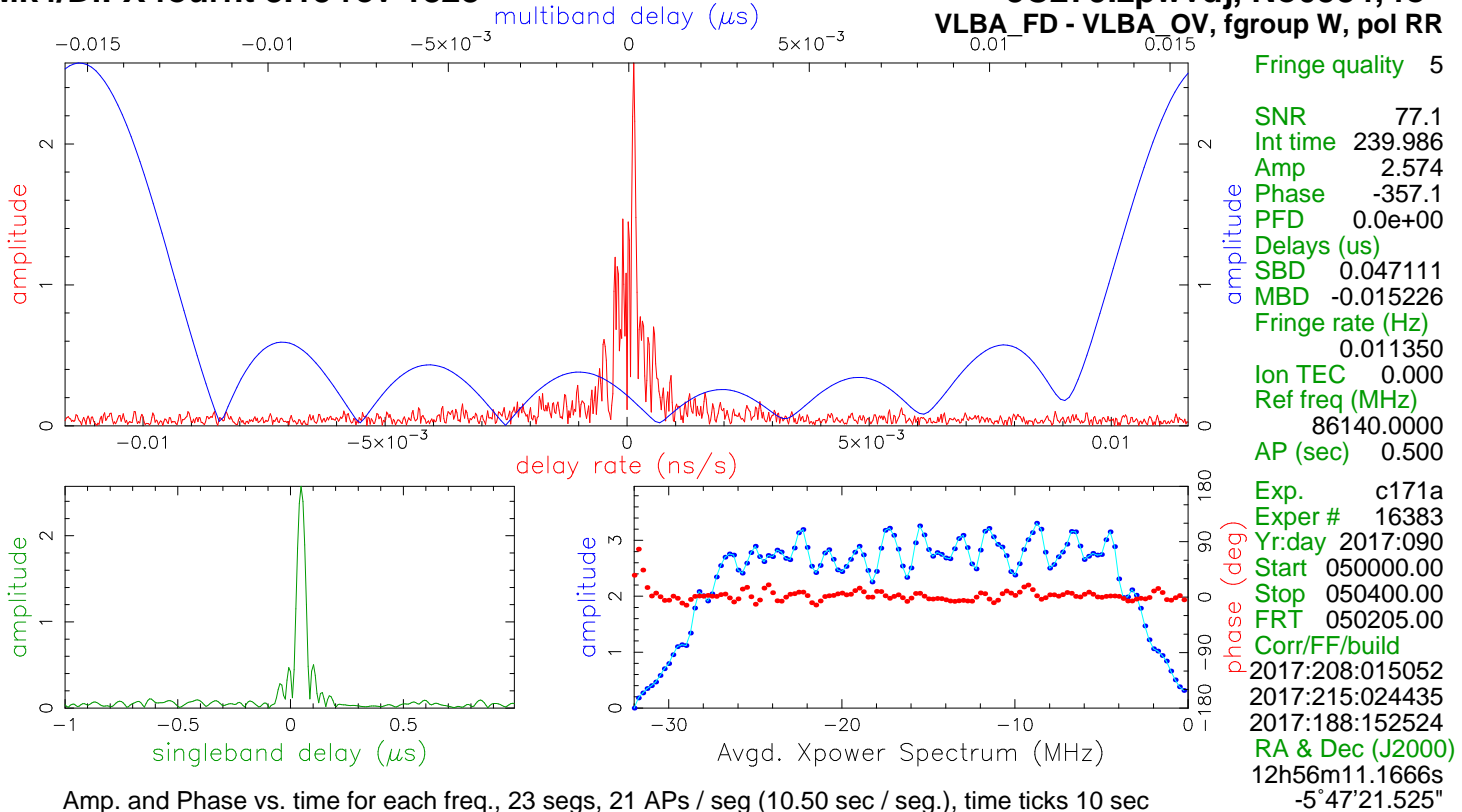
amp/seg (%) 62.5 5.5 Search (1024X32) 2.846 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 19.3 1.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

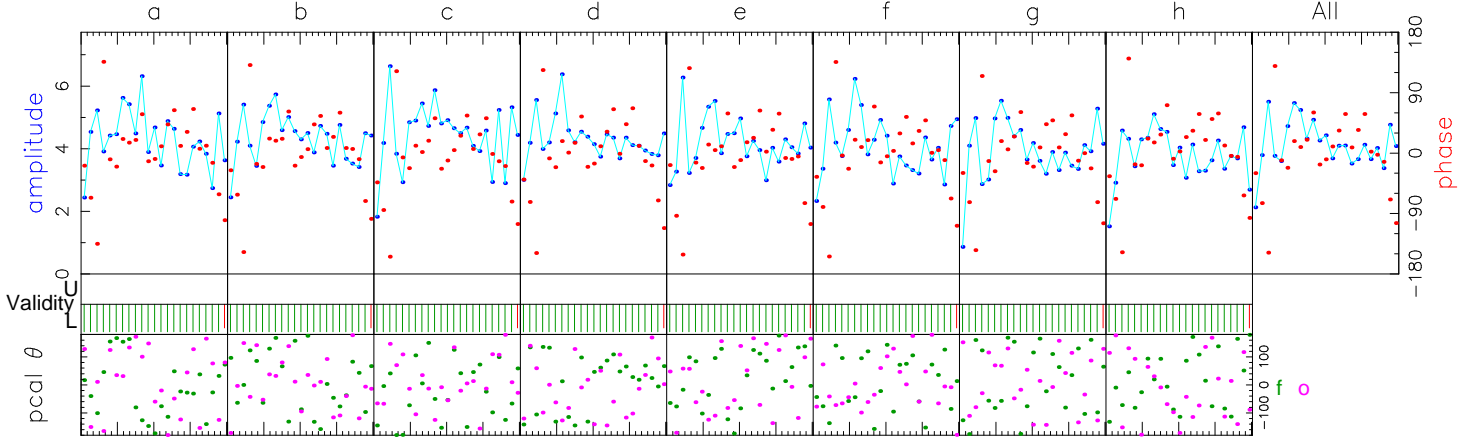
amp/frq (%) 18.0 3.2 Inc. seg. avg. 4.604 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

f: az 132.0 el 40.8 pa -39.8 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 ion window (TEC) 0.00 0.00 simultaneous interpolator

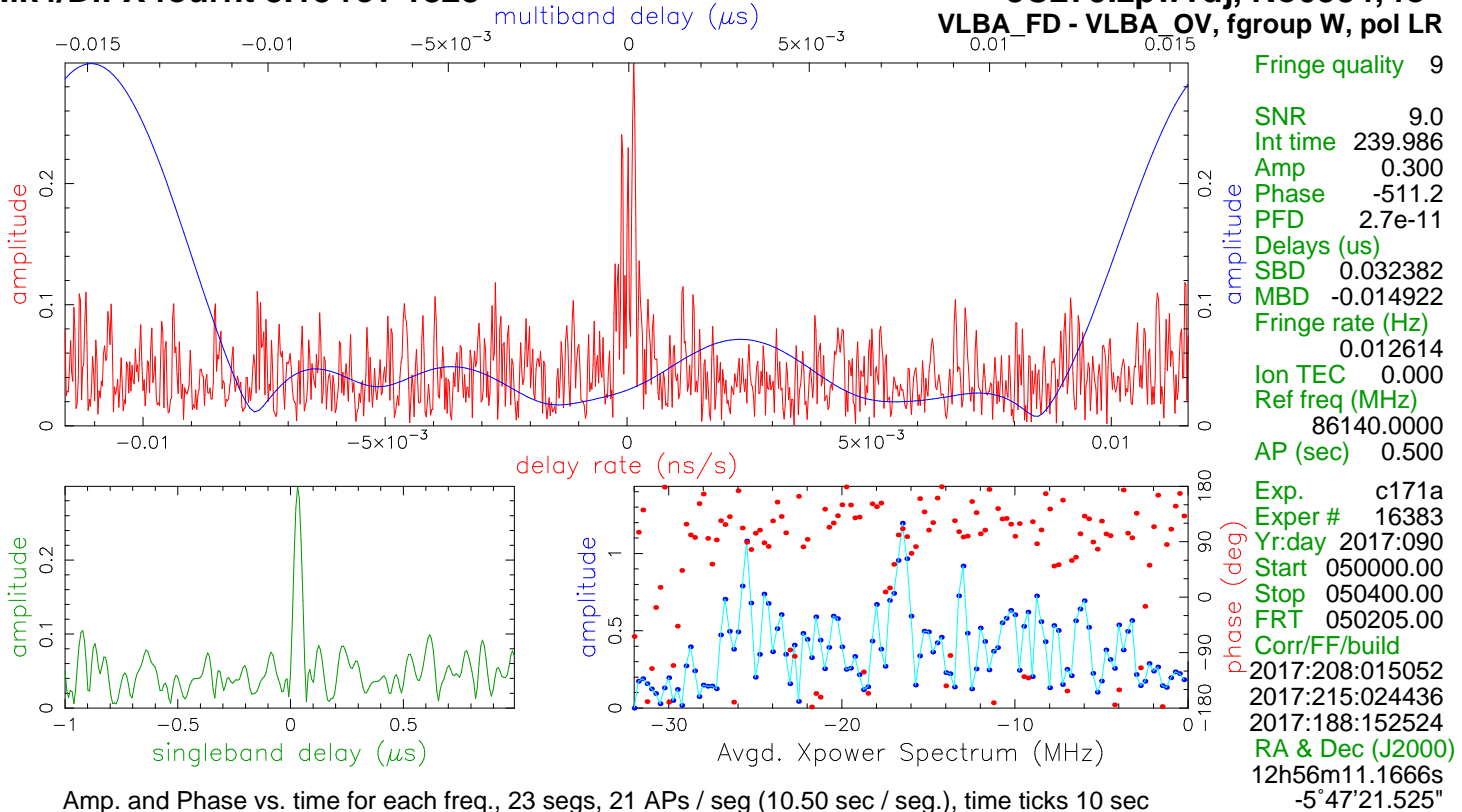
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.41.zpwwdj



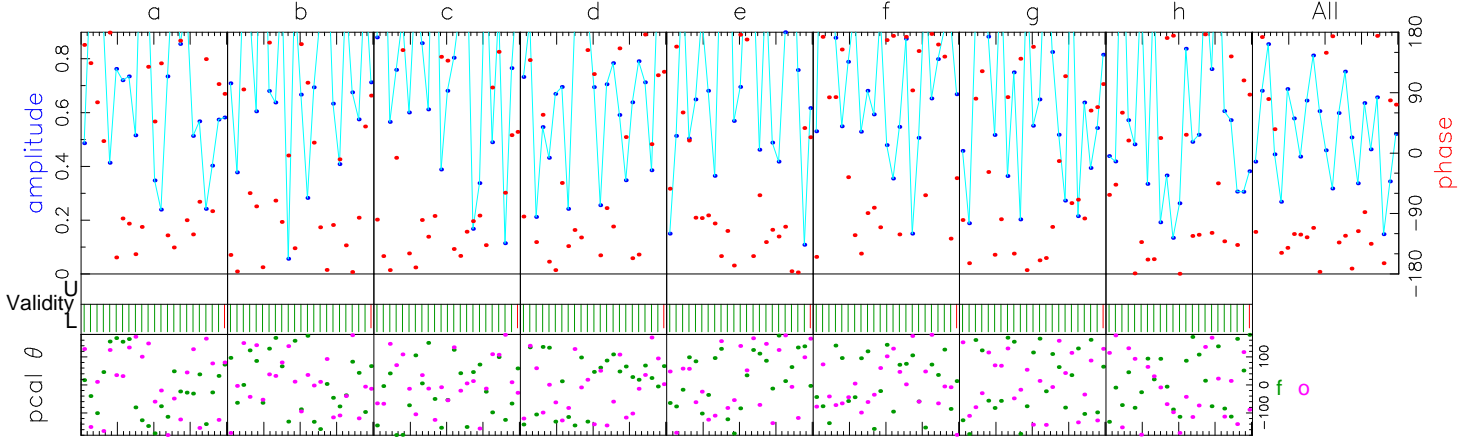
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|------------------------------|------------------------------|----------|--------------------------------|-----------|--------------------|--|------------------------------|-----------------------|---------------------------|-------------|-------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | | |
| f | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | APs used | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | |
| f:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | | |
| f:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | | |
| f | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | |
| f | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | | |
| | | | | | | | | | Chan ids | | |
| | | | | | | | | | Tracks | | |
| Group delay (usec)(sbd) | 4.09690629533E+03 | | Apriori delay (usec) | | 4.09685902092E+03 | | Resid mbdelay (usec) | | -1.52256E-02 | +/- 2.8E-05 | |
| Sband delay (usec) | 4.09690613192E+03 | | Apriori clock (usec) | | -2.9324386E+00 | | Resid sbdelay (usec) | | 4.71110E-02 | +/- 2.2E-04 | |
| Phase delay (usec) | 4.09685902102E+03 | | Apriori clockrate (us/s) | | -6.8065150E-07 | | Resid phdelay (usec) | | 9.42630E-08 | +/- 4.8E-08 | |
| Delay rate (us/s) | -1.76157973018E-01 | | Apriori rate (us/s) | | -1.76158104776E-01 | | Resid rate (us/s) | | 1.31758E-07 | +/- 3.5E-10 | |
| Total phase (deg) | -334.7 | | Apriori accel (us/s/s) | | -2.06974181303E-05 | | Resid phase (deg) | | -357.1 | +/- 1.5 | |
| RMS | 57.1 | 3.6 | Theor. | Amplitude | 2.574 +/- 0.033 | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | |
| ph/seg (deg) | 67.4 | 6.2 | Search (1024X32) | 2.514 | | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -1.000 | 1.000 | |
| amp/seg (%) | 5.2 | 2.1 | Interp. | 0.000 | | Bits/sample: 2x2 | | SampCntNorm: enabled | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 5.1 | 3.7 | Inc. seg. avg. | 4.137 | | Sample rate(MSamp/s): 64 | | dr window (ns/s) | -0.012 | 0.012 | |
| amp/frq (%) | | | Inc. frq. avg. | 2.580 | | Data rate(Mb/s): 1024 | | ion window (TEC) | 0.00 | 0.00 | |
| f: az 132.0 el 40.8 pa -39.8 | o: az 122.6 el 27.4 pa -42.2 | | u,v (fr/asec) 999.019 -672.726 | | | | nlags: 128 t_cohere infinite | | simultaneous interpolator | | |



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



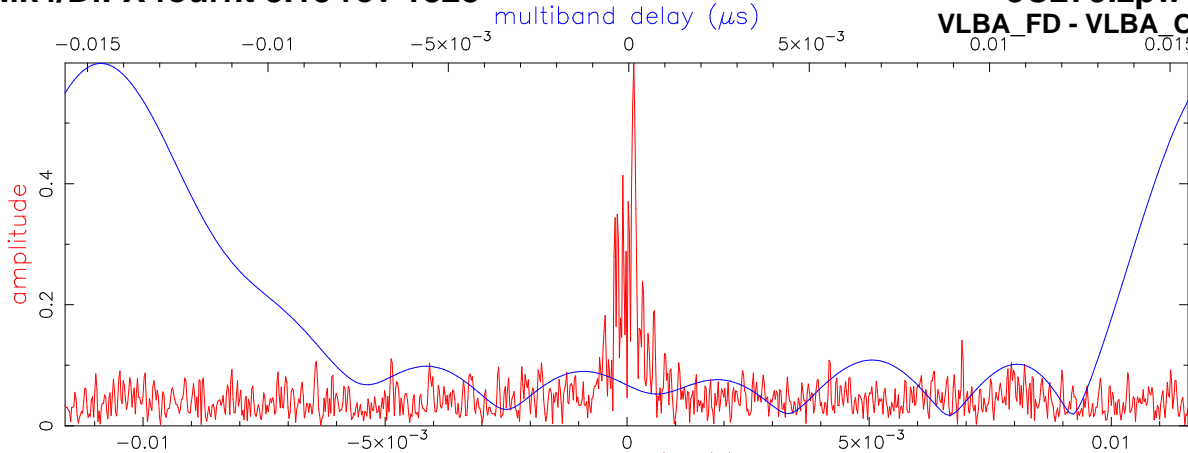
| | | | | | | | | | |
|-----------|----------|----------|----------|----------|----------|----------|----------|------------|--------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -162.1 | -143.9 | -141.9 | -171.6 | -140.0 | -161.2 | -153.7 | -142.7 | Phase | -151.2 |
| 0.3 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 0.2 | 0.2 | Ampl. | 0.3 |
| 210.1 | 132.3 | 134.1 | 133.2 | 132.2 | 133.8 | 247.5 | 208.3 | Sbd box | 133.1 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| f -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| f:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| f:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| f 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| f W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 4.09690659933E+03 | Apriori delay (usec) | 4.09685902092E+03 | Resid mbdelay (usec) | -1.49216E-02 | +/- | 2.4E-04 |
| Sband delay (usec) | 4.09689140292E+03 | Apriori clock (usec) | -2.9324386E+00 | Resid sbdelay (usec) | 3.23820E-02 | +/- | 1.9E-03 |
| Phase delay (usec) | 4.09685901605E+03 | Apriori clockrate (us/s) | -6.8065150E-07 | Resid phdelay (usec) | -4.87523E-06 | +/- | 4.1E-07 |
| Delay rate (us/s) | -1.76157958337E-01 | Apriori rate (us/s) | -1.76158104776E-01 | Resid rate (us/s) | 1.46439E-07 | +/- | 3.0E-09 |
| Total phase (deg) | -488.8 | Apriori accel (us/s/s) | -2.06974181303E-05 | Resid phase (deg) | -511.2 | +/- | 12.8 |

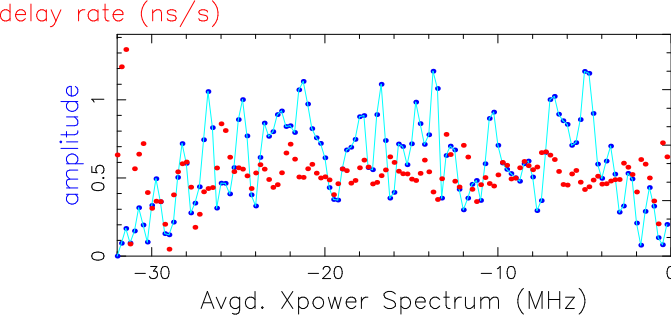
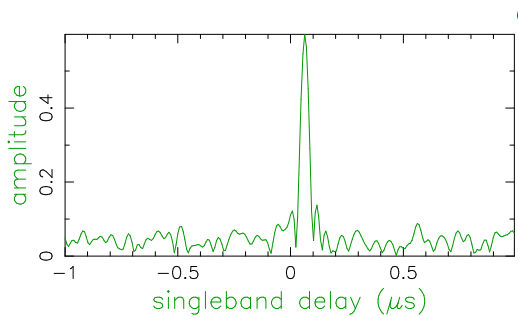
| | | | | | | | | | |
|--------------|------|------------------|-------|----------------|-----------------|------------------------|-----------------------------|------------------|--------------|
| ph/seg (deg) | 66.1 | Theor. | 30.6 | Amplitude | 0.300 +/- 0.033 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 |
| amp/seg (%) | 96.5 | Search (1024X32) | 0.288 | Search | 0.000 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 1.000 |
| ph/frq (deg) | 12.8 | Interp. | 0.000 | Inc. seg. avg. | 0.463 | Bits/sample: | 2x2 | SampCntNorm: | enabled |
| amp/frq (%) | 32.4 | Inc. frq. avg. | 0.291 | Inc. frq. avg. | 0.291 | Sample rate (MSamp/s): | 64 | mb window (us) | -0.016 0.016 |
| | | | | | | Data rate (Mb/s): | 1024 | nlags: | 128 |
| | | | | | | | | t_cohere: | infinite |
| | | | | | | | | ion window (TEC) | 0.00 0.00 |

f: az 132.0 el 40.8 pa -39.8 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.43.zpwvdj

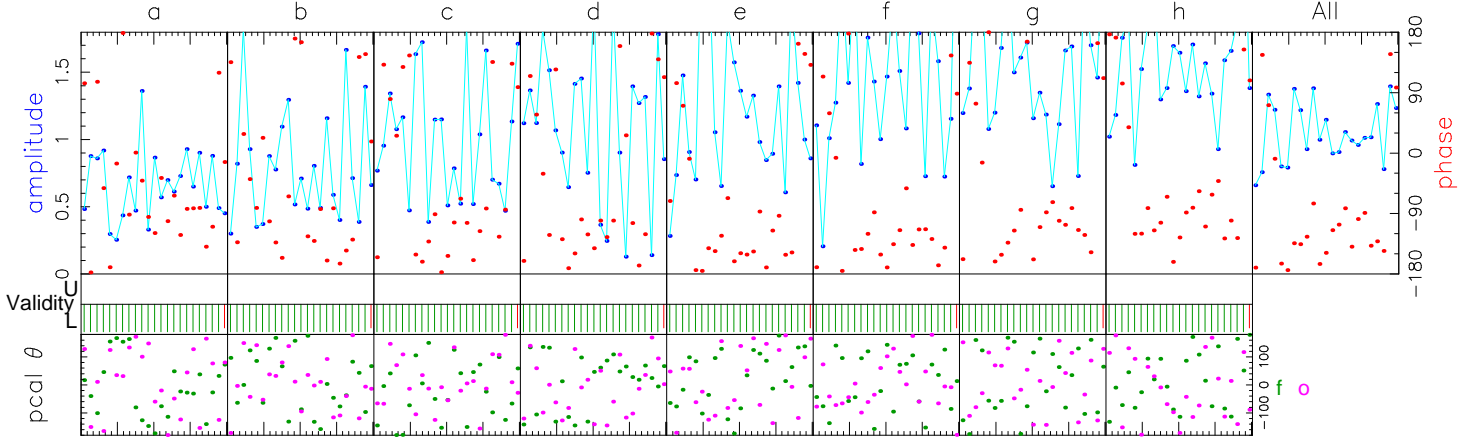


Fringe quality 8
 SNR 18.0
 Int time 239.986
 Amp 0.599
 Phase -497.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.063361
 MBD -0.014626
 Fringe rate (Hz) 0.011365
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024437
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|--|----------|--------------------|----------|----------|--------------------|----------|----------|----------|--------------|-------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| f | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| f:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| f:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| f | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| f | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |
| Group delay (usec)(sbd) | | 4.09690689508E+03 | | | 4.09685902092E+03 | | | | -1.46258E-02 | +/- 1.2E-04 |
| Sband delay (usec) | | 4.09692238192E+03 | | | -2.9324386E+00 | | | | 6.33610E-02 | +/- 9.6E-04 |
| Phase delay (usec) | | 4.09685901650E+03 | | | -6.8065150E-07 | | | | -4.42326E-06 | +/- 2.1E-07 |
| Delay rate (us/s) | | -1.76157972843E-01 | | | -1.76158104776E-01 | | | | 1.31933E-07 | +/- 1.5E-09 |
| Total phase (deg) | | | -474.8 | | | | | | -497.2 | +/- 6.4 |
| Apriori delay (usec) | | | | | | | | | | |
| Apriori clock (usec) | | | | | | | | | | |
| Apriori clockrate (us/s) | | | | | | | | | | |
| Apriori rate (us/s) | | | | | | | | | | |
| Apriori accel (us/s/s) | | | | | | | | | | |
| Resid mbdelay (usec) | | | | | | | | | | |
| Resid sbdelay (usec) | | | | | | | | | | |
| Resid phdelay (usec) | | | | | | | | | | |
| Resid rate (us/s) | | | | | | | | | | |
| Resid phase (deg) | | | | | | | | | | |
| Pcal mode: MANUAL, MANUAL | | | | | | | | | | |
| Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | | | | | | | | | |
| Bits/sample: 2x2 | | | | | | | | | | |
| Sample rate(MSamp/s): 64 | | | | | | | | | | |
| Data rate(Mb/s): 1024 | | | | | | | | | | |
| nlags: 128 | | | | | | | | | | |
| t_cohere infinite | | | | | | | | | | |
| ion window (TEC) | | | | | | | | | | |
| sb window (us) | | | | | | | | | -1.000 | 1.000 |
| mb window (us) | | | | | | | | | -0.016 | 0.016 |
| dr window (ns/s) | | | | | | | | | -0.012 | 0.012 |
| ion window (TEC) | | | | | | | | | 0.00 | 0.00 |

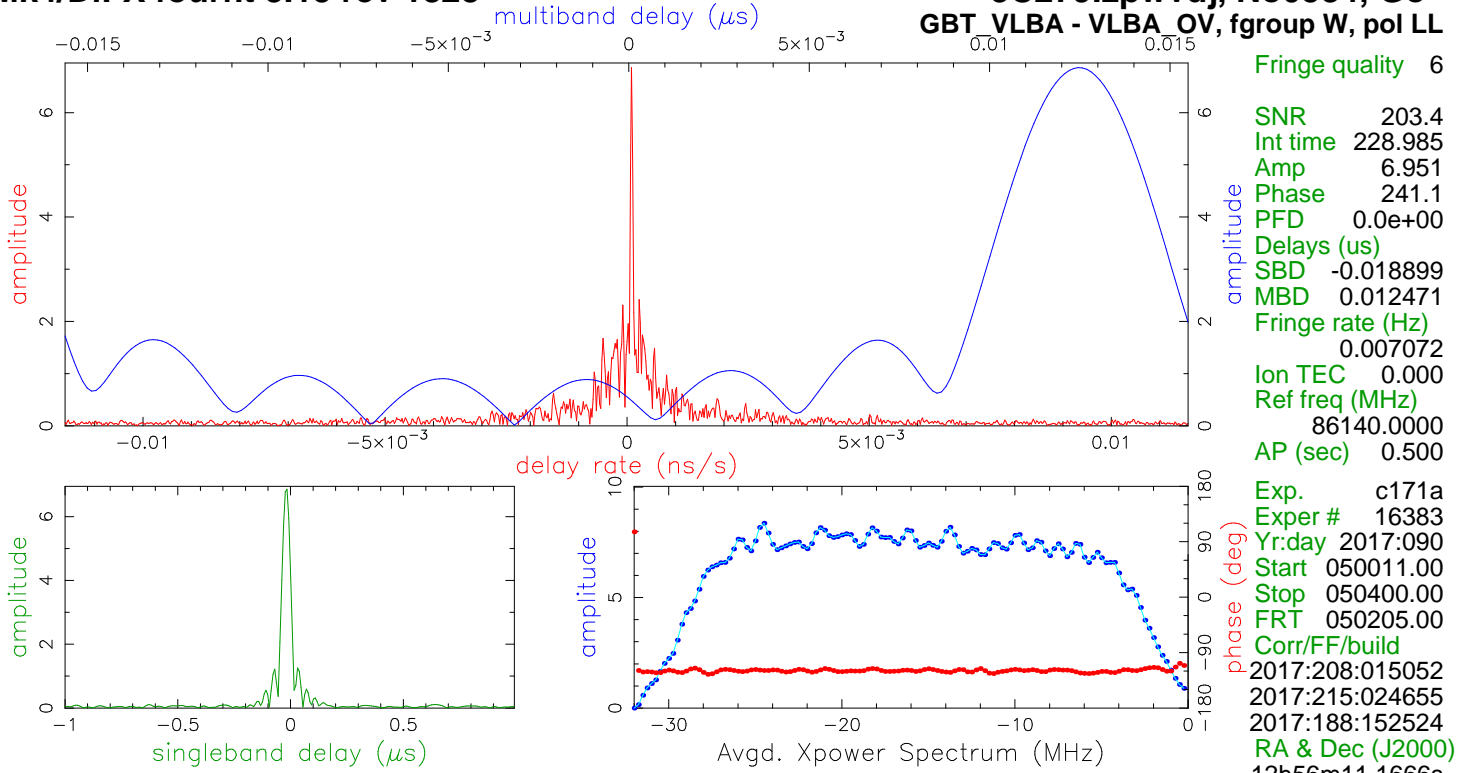
ph/seg (deg) 59.6 15.3
 amp/seg (%) 83.1 26.7
 ph/frq (deg) 23.4 9.0
 amp/frq (%) 36.1 15.8

RMS Theor. Amplitude 0.599 +/- 0.033
 Search (1024X32) 0.594
 Interp. 0.000
 Inc. seg. avg. 1.012
 Inc. frq. avg. 0.618

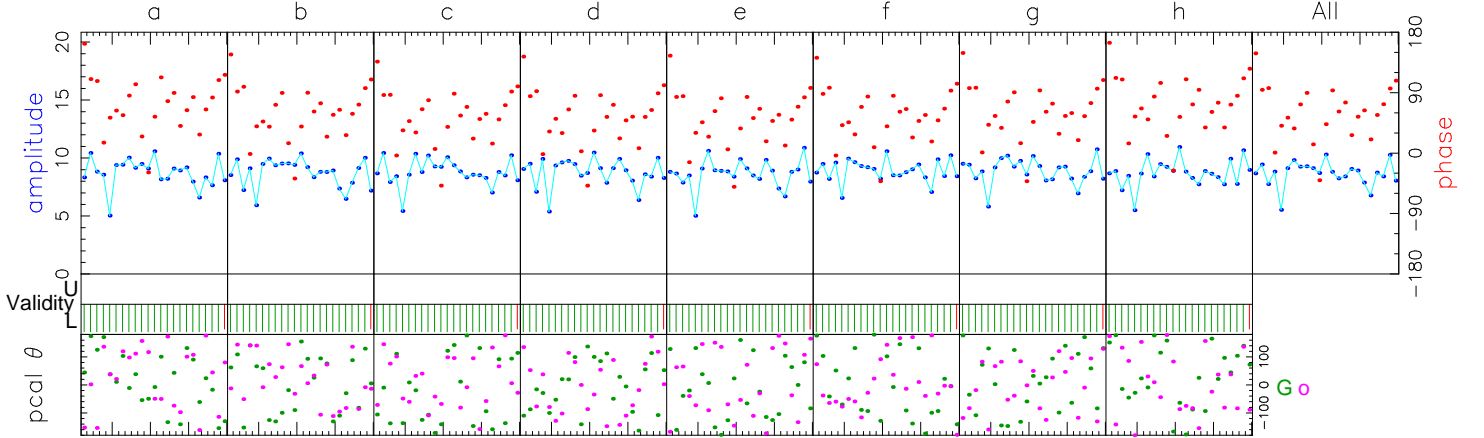
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 SampCntNorm: enabled
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

f: az 132.0 el 40.8 pa -39.8 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.44.zpwvdj simultaneous interpolator

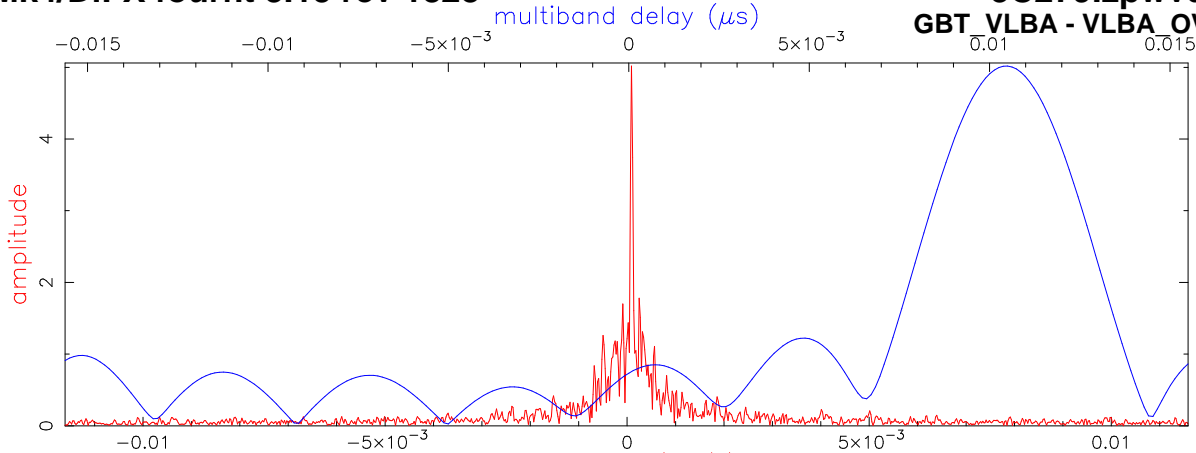


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| 74.4 | 60.2 | 55.4 | 54.5 | 52.3 | 55.8 | 62.3 | 74.3 | Phase | 61.1 |
| 6.9 | 6.9 | 7.0 | 6.9 | 6.8 | 7.1 | 7.0 | 6.8 | Ampl. | 6.9 |
| 126.4 | 126.6 | 126.5 | 126.6 | 126.6 | 126.6 | 126.8 | 126.7 | Sbd box | 126.6 |
| U/L 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | APs used | |
| G -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| G:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| G:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| G 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| G W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 5.07525276895E+03 | | Apriori delay (usec) | 5.07527154832E+03 | | Resid mbdelay (usec) | 1.24706E-02 | +/- | 1.1E-05 |
| Sband delay (usec) | 5.07525264932E+03 | | Apriori clock (usec) | -1.3441428E+01 | | Resid sbdelay (usec) | -1.88990E-02 | +/- | 8.5E-05 |
| Phase delay (usec) | 5.07527155029E+03 | | Apriori clockrate (us/s) | -2.7843897E-08 | | Resid phdelay (usec) | 1.96963E-06 | +/- | 1.8E-08 |
| Delay rate (us/s) | -7.11591986990E-01 | | Apriori rate (us/s) | -7.11592069088E-01 | | Resid rate (us/s) | 8.20975E-08 | +/- | 1.4E-10 |
| Total phase (deg) | | 303.0 | Apriori accel (us/s/s) | -2.72501480567E-05 | | Resid phase (deg) | 241.1 | +/- | 0.6 |

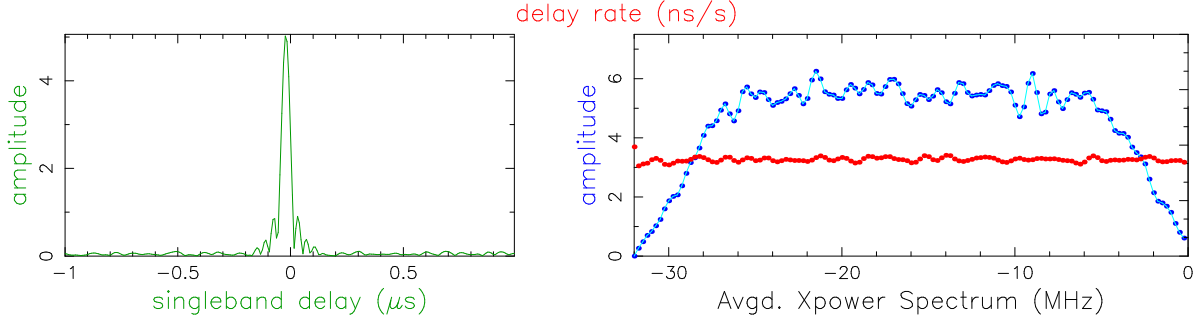
RMS Theor. Amplitude 6.951 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 39.7 1.4 Search (1024X32) 6.524 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 28.9 2.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 9.4 0.8 Inc. seg. avg. 8.674 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 1.6 1.4 Inc. frq. avg. 6.931 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 165.5 el 44.7 pa -11.0 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 4077.306 368.044 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/Go.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Go.W.173.zpwwdj



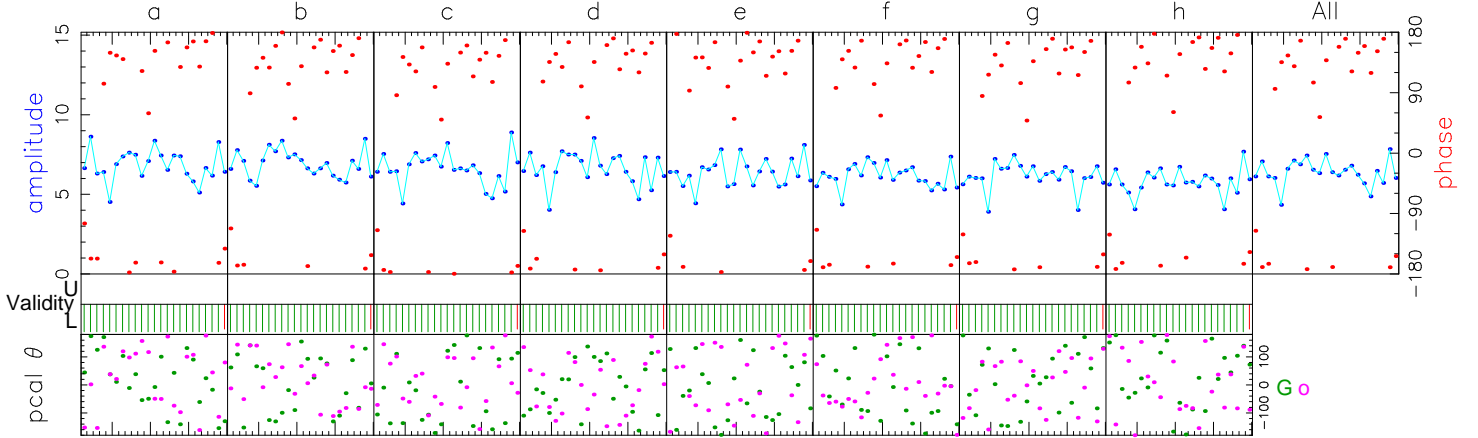
Fringe quality 6

SNR 148.1
Int time 228.985
Amp 5.060
Phase 337.1
PFD 0.0e+00
Delays (us)
SBD -0.020786
MBD 0.010468
Fringe rate (Hz) 0.007054
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050011.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024656
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

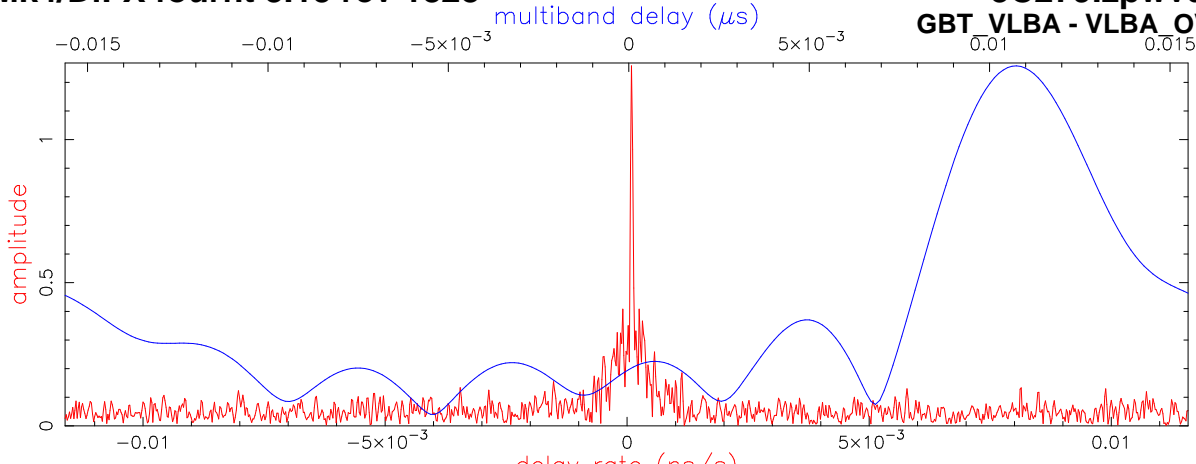


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| U/L | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 157.1 | 157.1 |
| G | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Ampl. | 5.0 |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Sbd box | 126.3 |
| G:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | APs used | |
| G:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC freqs | |
| G | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC phase | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ManI PC | |
| G | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | PC amp | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| | | | | | | | | | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 5.07525076626E+03 | | Apriori delay (usec) | | 5.07527154832E+03 | | Resid mbdelay (usec) | | 1.04679E-02 | +/- 1.5E-05 |
| Sband delay (usec) | 5.07525076182E+03 | | Apriori clock (usec) | | -1.3441428E+01 | | Resid sbdelay (usec) | | -2.07865E-02 | +/- 1.2E-04 |
| Phase delay (usec) | 5.07527155338E+03 | | Apriori clockrate (us/s) | | -2.7843897E-08 | | Resid phdelay (usec) | | 5.06474E-06 | +/- 2.5E-08 |
| Delay rate (us/s) | -7.11591987195E-01 | | Apriori rate (us/s) | | -7.11592069088E-01 | | Resid rate (us/s) | | 8.18928E-08 | +/- 1.9E-10 |
| Total phase (deg) | 399.0 | | Apriori accel (us/s/s) | | -2.72501480567E-05 | | Resid phase (deg) | | 337.1 | +/- 0.8 |

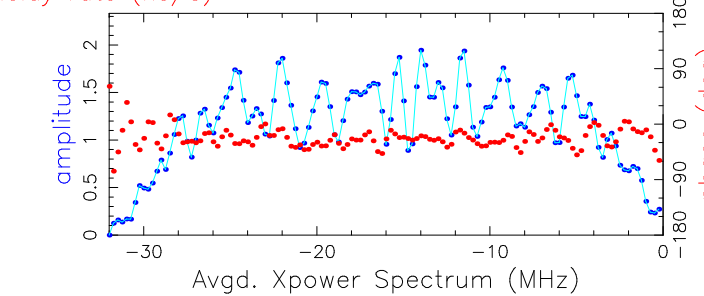
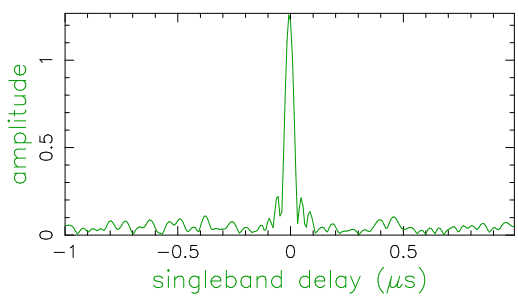
ph/seg (deg) 40.5 1.9 Theor. Amplitude 5.060 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.5 3.2 Search (1024X32) 4.749 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.3 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 5.1 1.9 Inc. seg. avg. 6.390 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 165.5 el 44.7 pa -11.0 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 4077.306 368.044 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/Go..zpvdj Output file: /Exps/c171a/gmva/1234/No0584/Go.W.174.zpvdj



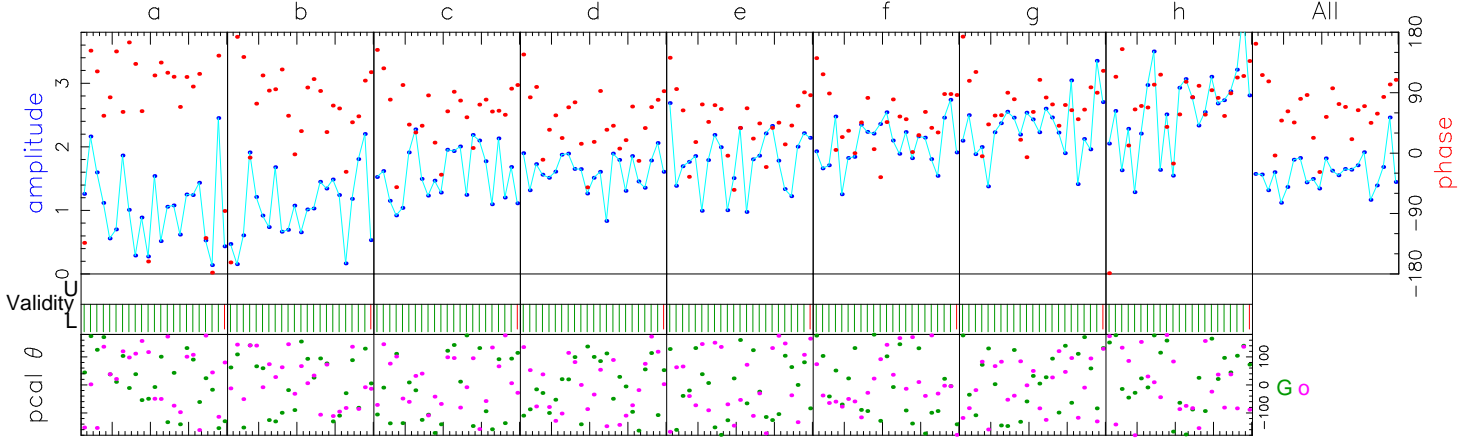
Fringe quality 5

SNR 37.1
Int time 228.985
Amp 1.268
Phase 249.0
PFD 0.0e+00
Delays (us)
SBD -0.005244
MBD 0.010751
Fringe rate (Hz) 0.007074
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050011.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024658
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



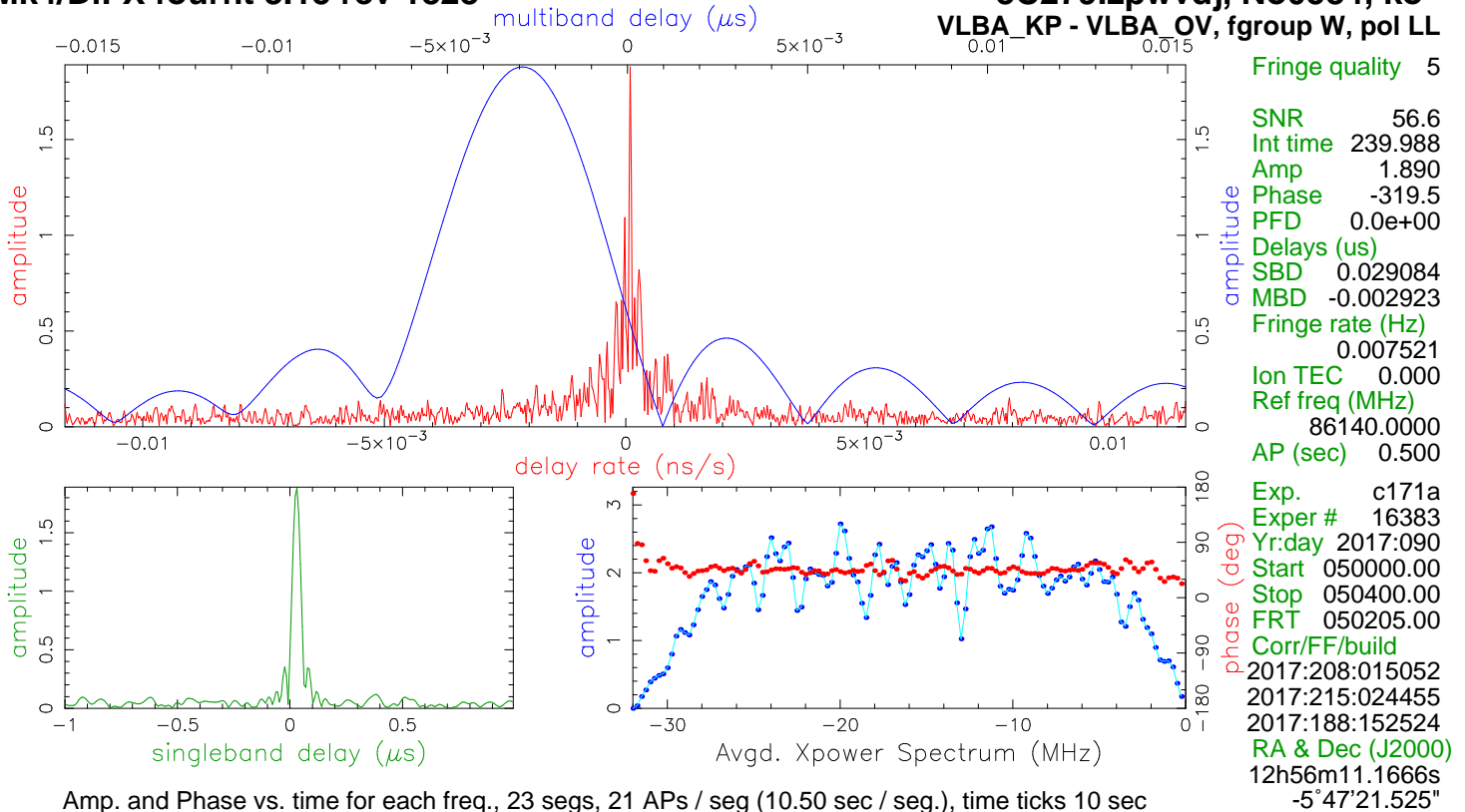
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



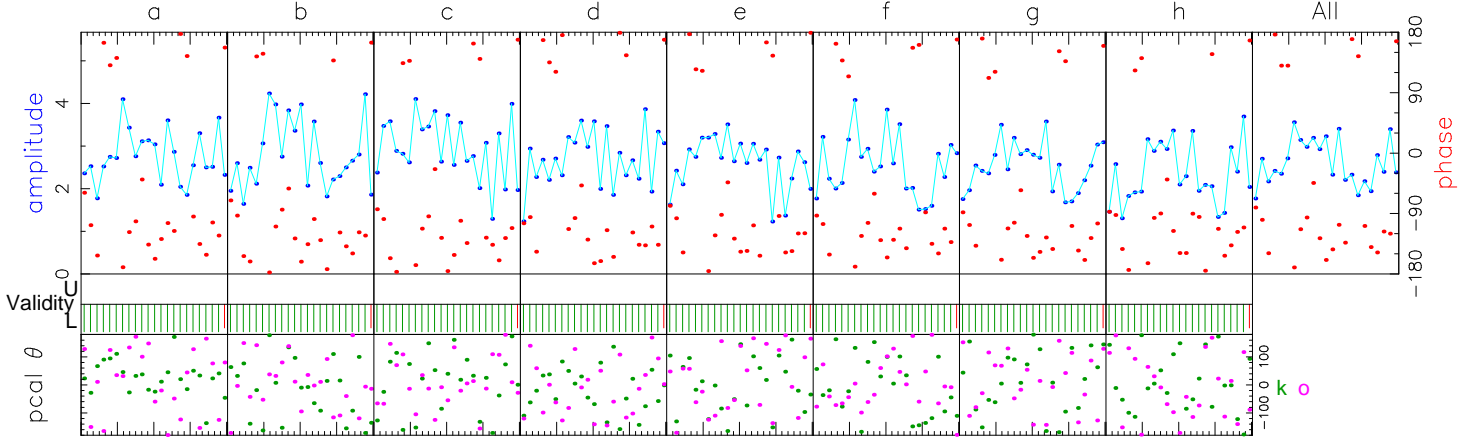
| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|------------|-------|
| | 122.4 | 74.2 | 63.8 | 49.9 | 47.9 | 49.9 | 73.0 | 88.7 | Phase | 69.0 |
| | 0.8 | 0.8 | 1.2 | 1.2 | 1.3 | 1.6 | 1.8 | 2.1 | Ampl. | 1.3 |
| | 127.8 | 128.0 | 128.1 | 128.5 | 128.6 | 128.5 | 128.5 | 128.4 | Sbd box | 128.3 |
| U/L | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | APs used | |
| G | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| G:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| G:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| G | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| G | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |

| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 5.07525104932E+03 | Apriori delay (usec) | 5.07527154832E+03 | Resid mbdelay (usec) | 1.07510E-02 | +/- | 5.9E-05 |
| Sband delay (usec) | 5.07526630482E+03 | Apriori clock (usec) | -1.3441428E+01 | Resid sbdelay (usec) | -5.24350E-03 | +/- | 4.6E-04 |
| Phase delay (usec) | 5.07527155054E+03 | Apriori clockrate (us/s) | -2.7843897E-08 | Resid phdelay (usec) | 2.22561E-06 | +/- | 1.0E-07 |
| Delay rate (us/s) | -7.11591986966E-01 | Apriori rate (us/s) | -7.11592069088E-01 | Resid rate (us/s) | 8.21221E-08 | +/- | 7.5E-10 |
| Total phase (deg) | 311.0 | Apriori accel (us/s/s) | -2.72501480567E-05 | Resid phase (deg) | 249.0 | +/- | 3.1 |

| | | | | | | | | | | | |
|---|------|------------------|-------|----------------|------------------|-----------------------|-----------------|------------------|-----------------------------|------------------|--------------|
| ph/seg (deg) | 40.5 | RMS | 7.4 | Theor. | 7.4 | Amplitude | 1.268 +/- 0.034 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 |
| amp/seg (%) | 33.3 | Search (1024X32) | 1.207 | Interp. | 0.000 | Apriori rate (us/s) | 1.339 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 1.000 |
| ph/frq (deg) | 27.3 | Inc. seg. avg. | 1.575 | Inc. frq. avg. | 1.339 | Bits/sample: | 2x2 | SampCntNorm: | enabled | mb window (us) | -0.016 0.016 |
| amp/frq (%) | 34.8 | Inc. frq. avg. | 1.339 | u,v (fr/asec) | 4077.306 368.044 | Sample rate(MSamp/s): | 64 | Data rate(Mb/s): | 1024 | dr window (ns/s) | -0.012 0.012 |
| G: az 165.5 el 44.7 pa -11.0 o: az 122.6 el 27.4 pa -42.2 simultaneous interpolator | | | | | | | | | | | |

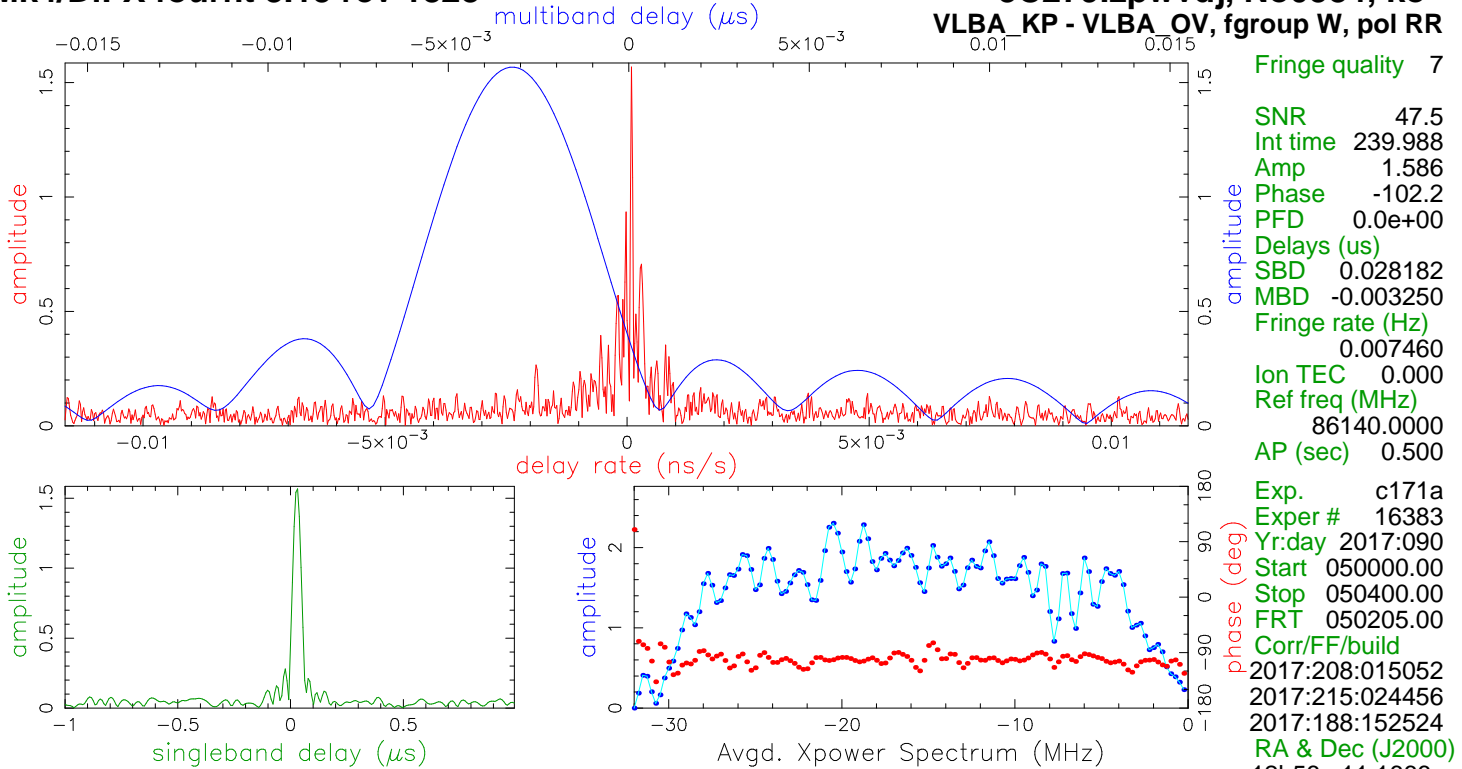


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

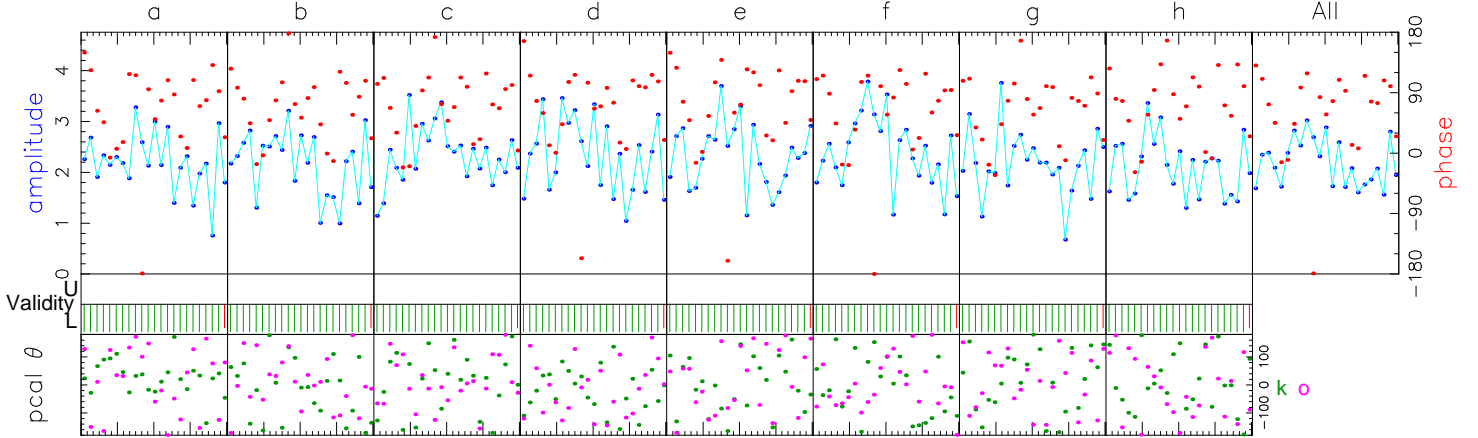


| | | | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|----------|----------|------------|--------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -137.3 | -135.6 | -141.6 | -144.0 | -140.9 | -143.2 | -144.3 | -128.7 | Phase | -139.5 |
| 1.9 | 2.1 | 2.0 | 1.9 | 1.8 | 1.9 | 1.8 | 1.7 | Ampl. | 1.9 |
| 132.9 | 132.7 | 132.6 | 132.8 | 132.8 | 132.5 | 132.8 | 132.8 | Sbd box | 132.7 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| k -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| k:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| ko 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| k 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| k W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 2.37054764472E+03 | Apriori delay (usec) | 2.37051931822E+03 | Resid mbdelay (usec) | -2.92350E-03 | +/- | 3.8E-05 | | |
| Sband delay (usec) | 2.37054840272E+03 | Apriori clock (usec) | -5.2434998E+00 | Resid sbdelay (usec) | 2.90845E-02 | +/- | 3.0E-04 | | |
| Phase delay (usec) | 2.37051931372E+03 | Apriori clockrate (us/s) | -2.6186307E-07 | Resid phdelay (usec) | -4.50003E-06 | +/- | 6.5E-08 | | |
| Delay rate (us/s) | -4.78127634592E-02 | Apriori rate (us/s) | -4.78128507720E-02 | Resid rate (us/s) | 8.73128E-08 | +/- | 4.7E-10 | | |
| Total phase (deg) | | Apriori accel (us/s/s) | -1.17578872043E-05 | Resid phase (deg) | -319.5 | +/- | 2.0 | | |

ph/seg (deg) 47.0 4.9 Theor. Amplitude 1.890 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 47.5 8.5 Search (1024X32) 1.861 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.8 2.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 7.0 5.0 Inc. seg. avg. 2.617 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.61.zpvdj simultaneous interpolator



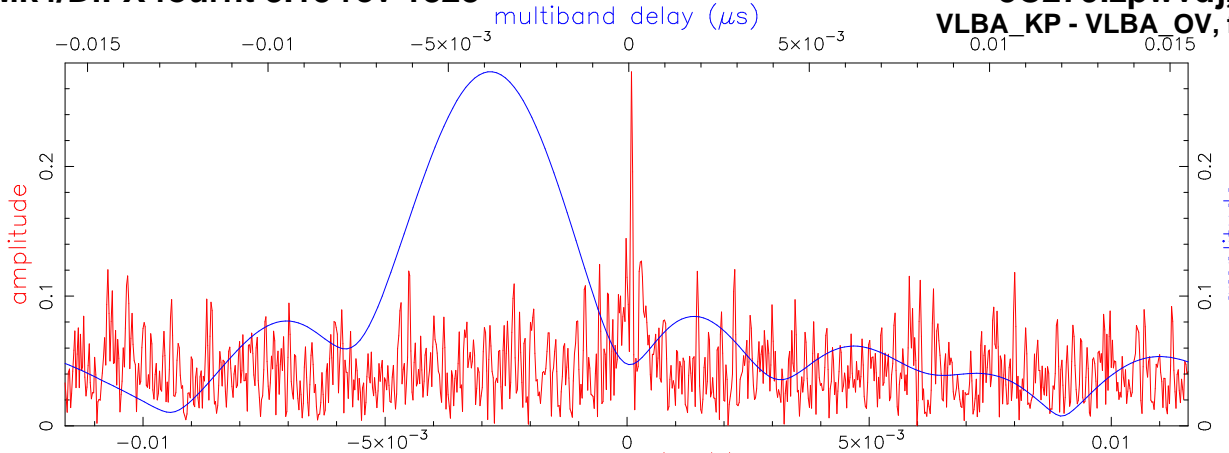
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



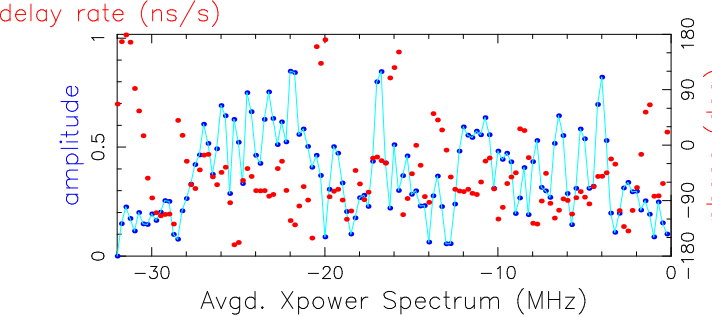
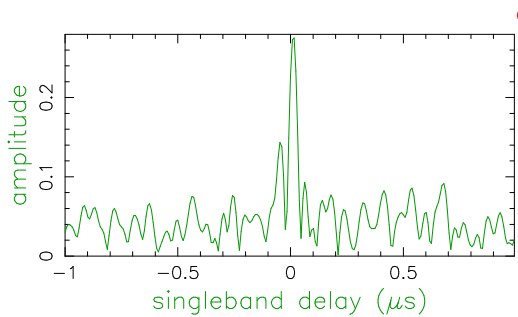
| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|--------------------------|-----------|--------------------|----------|----------|--------------------|----------|----------|----------|--------------|-------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| k | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| k:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| o:k | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| k | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| k | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | | |
| Group delay (usec)(sbd) | | 2.37054731809E+03 | | | 2.37051931822E+03 | | | | -3.25012E-03 | +/- 4.6E-05 |
| Sband delay (usec) | | 2.37054750022E+03 | | | -5.2434998E+00 | | | | 2.81820E-02 | +/- 3.6E-04 |
| Phase delay (usec) | | 2.37051932072E+03 | | | -2.6186307E-07 | | | | 2.50917E-06 | +/- 7.8E-08 |
| Delay rate (us/s) | | -4.78127641644E-02 | | | -4.78128507720E-02 | | | | 8.66076E-08 | +/- 5.6E-10 |
| Total phase (deg) | | | -76.6 | | -1.17578872043E-05 | | | | -102.2 | +/- 2.4 |
| Apriori delay (usec) | | | | | | | | | | |
| Apriori clock (usec) | | | | | | | | | | |
| Apriori clockrate (us/s) | | | | | | | | | | |
| Apriori rate (us/s) | | | | | | | | | | |
| Apriori accel (us/s/s) | | | | | | | | | | |
| Resid mbdelay (usec) | | | | | | | | | | |
| Resid sbdelay (usec) | | | | | | | | | | |
| Resid phdelay (usec) | | | | | | | | | | |
| Resid rate (us/s) | | | | | | | | | | |
| Resid phase (deg) | | | | | | | | | | |
| Pcal mode: | MANUAL | MANUAL | | | | | | | | |
| Pcal rate: | 0.000E+00 | 0.000E+00 | | | | | | | | |
| Bits/sample: | 2x2 | | | | | | | | | |
| Sample rate(MSamp/s): | 64 | | | | | | | | | |
| Data rate(Mb/s): | 1024 | | | | | | | | | |
| nlags: | 128 | | | | | | | | | |
| t_cohere | infinite | | | | | | | | | |
| ion window (TEC) | | | | | | | | | | |
| sb window (us) | -1.000 | | | | | | | | | 1.000 |
| mb window (us) | -0.016 | | | | | | | | | 0.016 |
| dr window (ns/s) | -0.012 | | | | | | | | | 0.012 |
| ion window (TEC) | 0.00 | | | | | | | | | 0.00 |
| PCal period (AP's) | 5 | | | | | | | | | 5 |
| Search (1024X32) | | | | | | | | | | |
| Interp. | 0.000 | | | | | | | | | |
| Inc. seg. avg. | 2.191 | | | | | | | | | |
| Inc. frq. avg. | 1.574 | | | | | | | | | |

k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.62.zpvdj

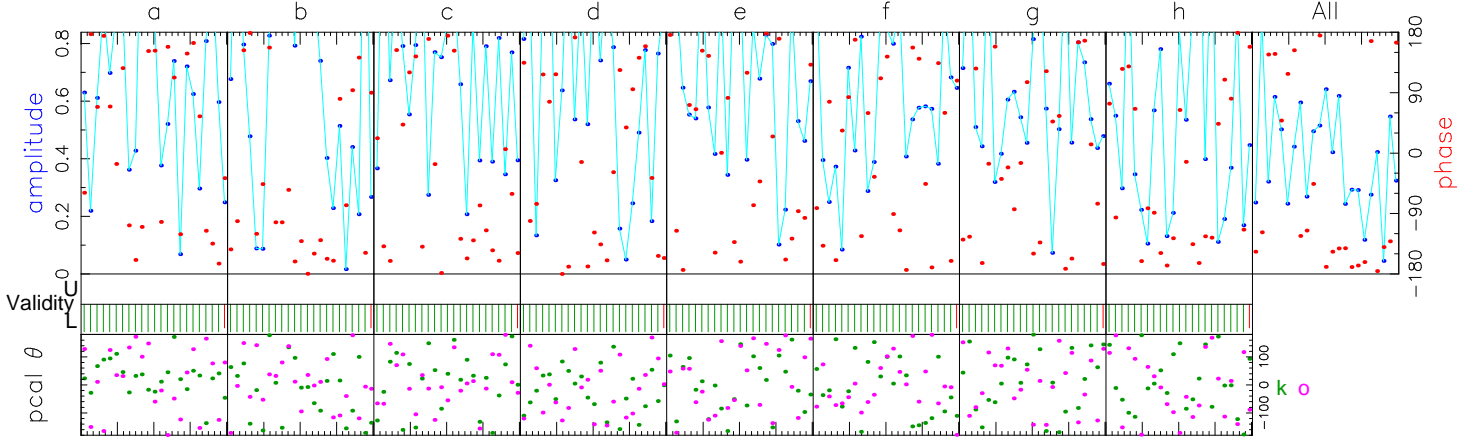


Fringe quality 9
 SNR 8.4
 Int time 239.988
 Amp 0.280
 Phase -340.9
 PFD 4.6e-09
 Delays (us)
 SBD 0.012107
 MBD -0.003769
 Fringe rate (Hz) 0.006853
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024458
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

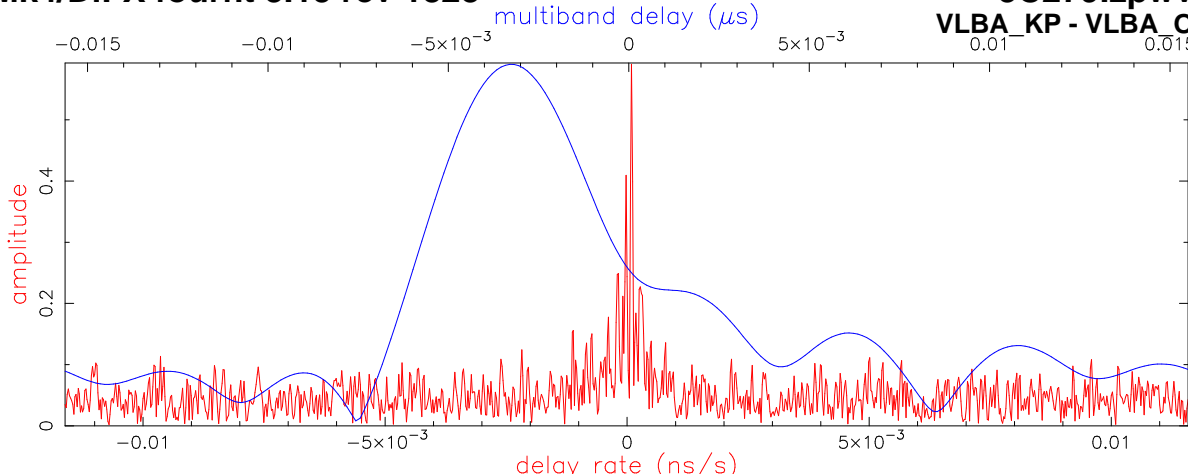


| | | | | | | | | | |
|-----------|----------|----------|----------|----------|----------|----------|----------|------------|--------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -178.5 | -141.4 | -157.6 | -175.1 | -158.8 | 178.4 | -143.0 | -170.1 | Phase | -160.9 |
| 0.3 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | Ampl. | 0.3 |
| 152.6 | 130.7 | 215.2 | 123.7 | 26.9 | 73.1 | 203.0 | 180.1 | Sbd box | 130.5 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| k -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| k:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| k:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| k 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| k W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |

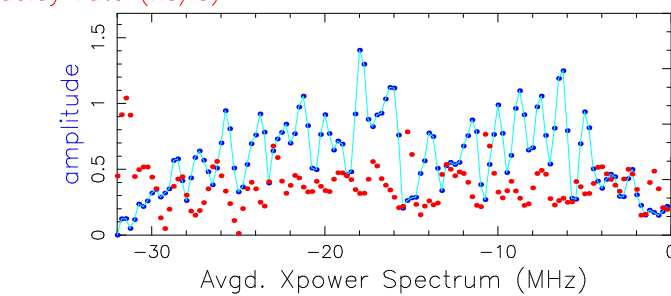
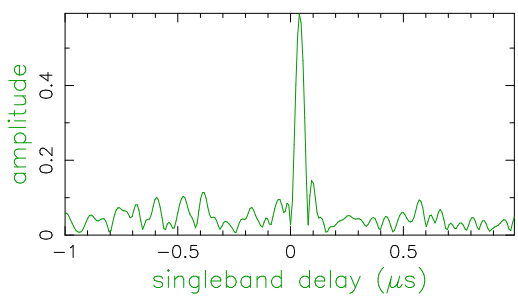
| | | | | | | | |
|-------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec)(sbd) | 2.37054679953E+03 | Apriori delay (usec) | 2.37051931822E+03 | Resid mbdelay (usec) | -3.76869E-03 | +/- | 2.6E-04 |
| Sband delay (usec) | 2.37053142572E+03 | Apriori clock (usec) | -5.2434998E+00 | Resid sbdelay (usec) | 1.21075E-02 | +/- | 2.1E-03 |
| Phase delay (usec) | 2.37051931303E+03 | Apriori clockrate (us/s) | -2.6186307E-07 | Resid phdelay (usec) | -5.18825E-06 | +/- | 4.4E-07 |
| Delay rate (us/s) | -4.78127712154E-02 | Apriori rate (us/s) | -4.78128507720E-02 | Resid rate (us/s) | 7.95565E-08 | +/- | 3.2E-09 |
| Total phase (deg) | -315.3 | Apriori accel (us/s/s) | -1.17578872043E-05 | Resid phase (deg) | -340.9 | +/- | 13.7 |

| | | | | | | | | | |
|--------------|------|------------------|-------|----------------|-----------------|-----------------------|-----------------------------|------------------|--------------|
| ph/seg (deg) | 51.6 | Theor. | 32.8 | Amplitude | 0.280 +/- 0.033 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 |
| amp/seg (%) | 81.9 | Search (1024X32) | 0.254 | Search | 0.000 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 1.000 |
| ph/frq (deg) | 17.0 | Interp. | 0.000 | Inc. seg. avg. | 0.351 | Bits/sample: | 2x2 | SampCntNorm: | enabled |
| amp/frq (%) | 30.9 | Inc. frq. avg. | 0.267 | Inc. frq. avg. | 0.267 | Sample rate(MSamp/s): | 64 | mb window (us) | -0.016 0.016 |
| | | | | | | Data rate(Mb/s): | 1024 | dr window (ns/s) | -0.012 0.012 |
| | | | | | | nlags: | 128 | ion window (TEC) | 0.00 0.00 |

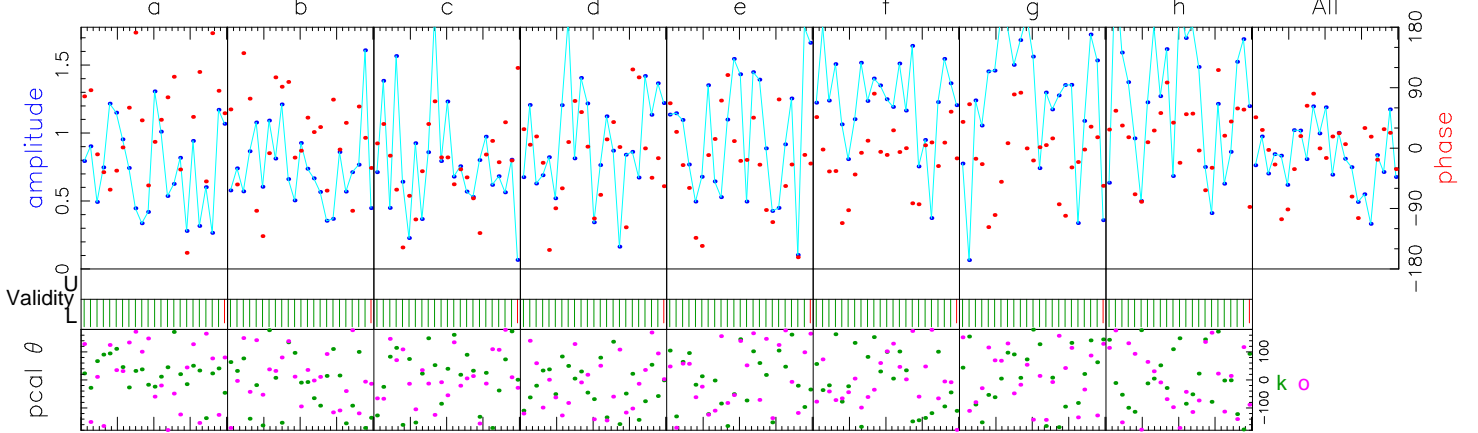
k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.63.zpwvdj



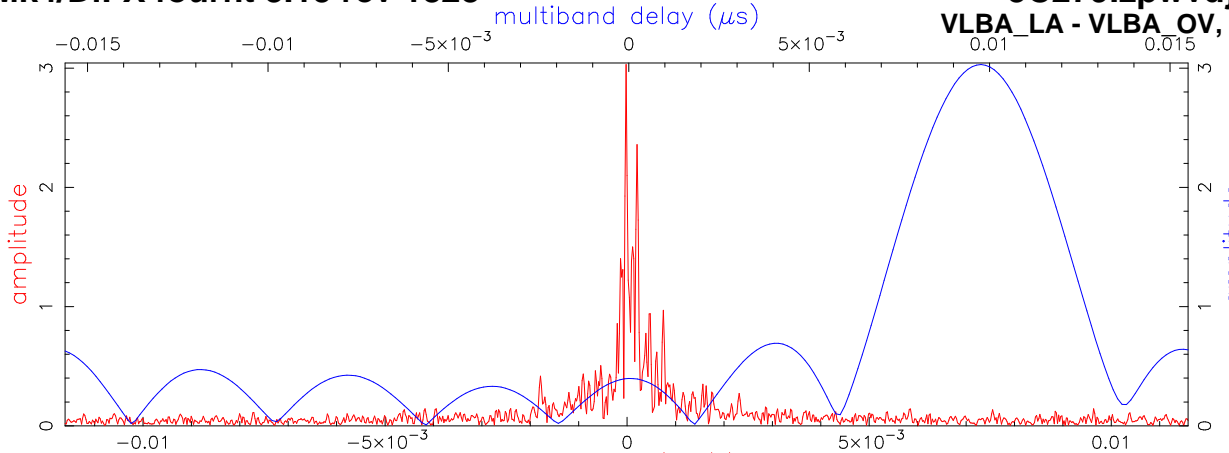
Fringe quality 9
SNR 17.8
Int time 239.988
Amp 0.593
Phase -177.3
PFD 0.0e+00
Delays (us)
SBD 0.040863
MBD -0.003271
Fringe rate (Hz) 0.007471
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024458
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



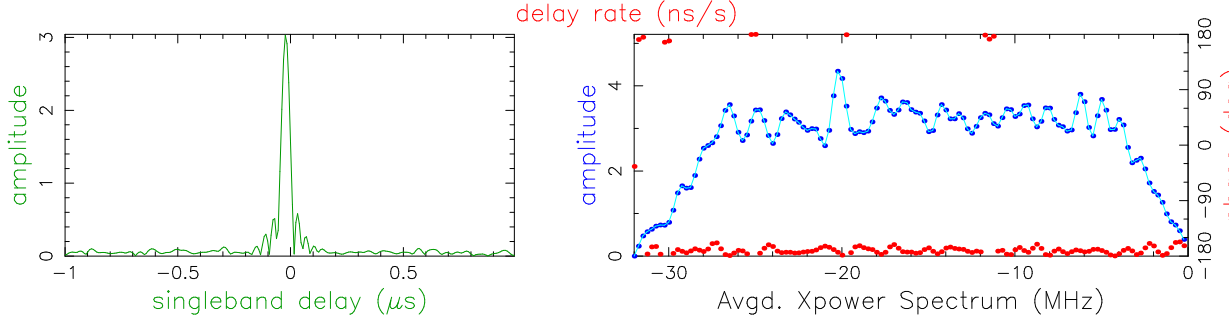
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|------------------------------|--------------------|------------------------------|--------------------------|--------------------------------|---------------------------|------------------------------|--------------------------|------------------|--------------|-------------|------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 134.8 | 134.2 | |
| k | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Ampl. | 0.6 | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Sbd box | 134.2 | |
| k:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | APs used | | |
| k:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC freqs | | |
| k | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC phase | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | Manl PC | | |
| k | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | PC amp | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | | |
| | | | | | | | | | Tracks | | |
| | | | | | | | | | Tracks | | |
| Group delay (usec)(sbd) | 2.37054729740E+03 | | Apriori delay (usec) | | 2.37051931822E+03 | | Resid mbdelay (usec) | | -3.27081E-03 | +/- 1.2E-04 | |
| Sband delay (usec) | 2.37056018122E+03 | | Apriori clock (usec) | | -5.2434998E+00 | | Resid sbdelay (usec) | | 4.08630E-02 | +/- 9.7E-04 | |
| Phase delay (usec) | 2.37051931830E+03 | | Apriori clockrate (us/s) | | -2.6186307E-07 | | Resid phdelay (usec) | | 8.82544E-08 | +/- 2.1E-07 | |
| Delay rate (us/s) | -4.78127640382E-02 | | Apriori rate (us/s) | | -4.78128507720E-02 | | Resid rate (us/s) | | 8.67338E-08 | +/- 1.5E-09 | |
| Total phase (deg) | | | Apriori accel (us/s/s) | | -1.17578872043E-05 | | Resid phase (deg) | | -177.3 | +/- 6.5 | |
| RMS | Theor. | Amplitude | 0.593 +/- 0.033 | | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | | |
| ph/seg (deg) | 49.6 | 15.5 | Search (1024X32) | | 0.577 | | sb window (us) | | -1.000 | 1.000 | |
| amp/seg (%) | 54.1 | 27.0 | Interp. | | 0.000 | | SampCntNorm: enabled | | -0.016 | 0.016 | |
| ph/frq (deg) | 21.3 | 9.1 | Inc. seg. avg. | | 0.798 | | Sample rate(MSamp/s): 64 | | -0.012 | 0.012 | |
| amp/frq (%) | 34.7 | 15.9 | Inc. frq. avg. | | 0.614 | | Data rate(Mb/s): 1024 | | 0.00 | 0.00 | |
| k: az 125.6 el 34.9 pa -43.7 | | o: az 122.6 el 27.4 pa -42.2 | | u,v (fr/asec) 266.581 -571.674 | | nlags: 128 t_cohere infinite | | ion window (TEC) | | 0.00 | 0.00 |

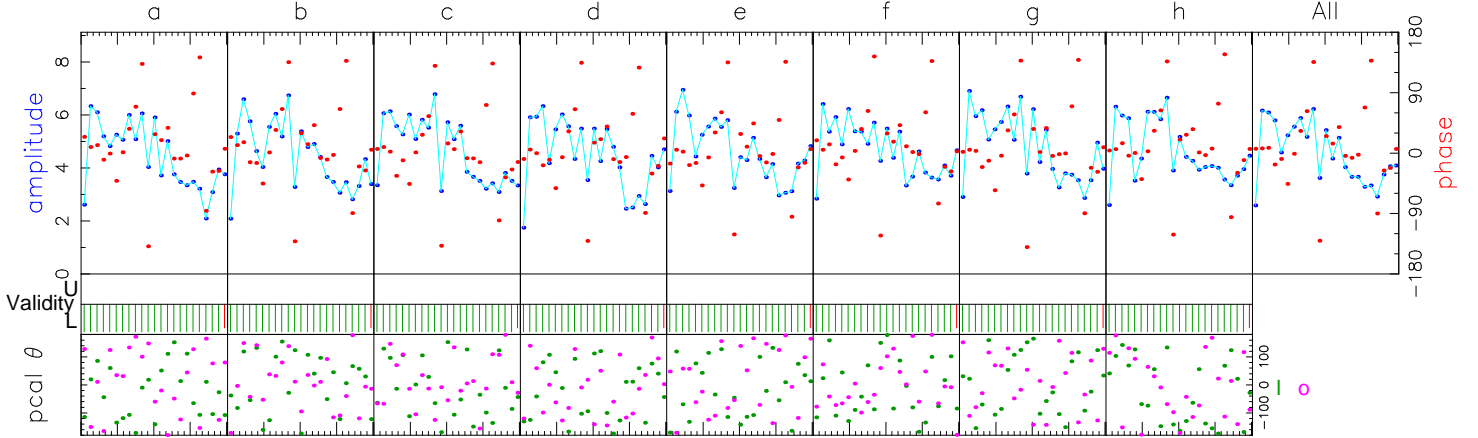


Fringe quality 5
 SNR 91.1
 Int time 239.988
 Amp 3.043
 Phase 188.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.021537
 MBD 0.009758
 Fringe rate (Hz)
 -0.002724
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024513
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

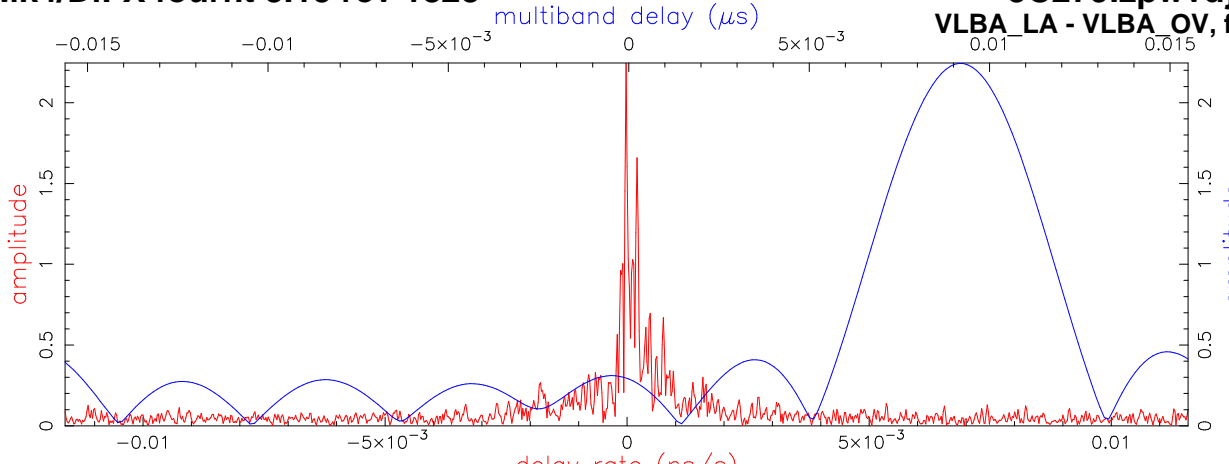
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



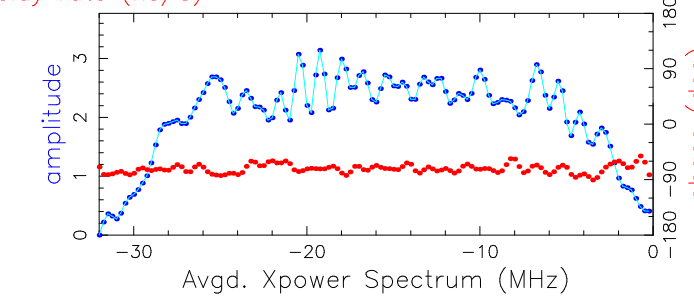
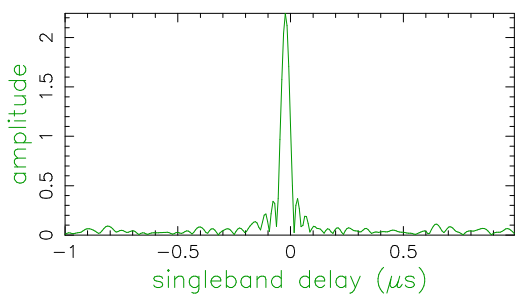
| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|-------------------------|--------------------|----------|--------------------------|-----------------|--------------------|--|----------------------|------------------------------|------------------|-------------|-------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | | |
| l | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | APs used | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | | |
| l | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | |
| l | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | | |
| | | | | | | | | | Chan ids | | |
| | | | | | | | | | Tracks | | |
| Group delay (usec)(sbd) | 2.67472103570E+03 | | Apriori delay (usec) | | 2.67474252740E+03 | | Resid mbdelay (usec) | | 9.75830E-03 | +/- 2.4E-05 | |
| Sband delay (usec) | 2.67472099040E+03 | | Apriori clock (usec) | | -6.4515615E+00 | | Resid sbdelay (usec) | | -2.15370E-02 | +/- 1.9E-04 | |
| Phase delay (usec) | 2.67474252768E+03 | | Apriori clockrate (us/s) | | -3.6045700E-07 | | Resid phdelay (usec) | | 2.75937E-07 | +/- 4.1E-08 | |
| Delay rate (us/s) | -1.77078250844E-01 | | Apriori rate (us/s) | | -1.77078219217E-01 | | Resid rate (us/s) | | -3.16273E-08 | +/- 2.9E-10 | |
| Total phase (deg) | 300.3 | | Apriori accel (us/s/s) | | -1.40215801985E-05 | | Resid phase (deg) | | 188.6 | +/- 1.3 | |
| | RMS | Theor. | Amplitude | 3.043 +/- 0.033 | | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | |
| ph/seg (deg) | 57.9 | 3.0 | Search (1024X32) | 2.855 | | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -1.000 | 1.000 | |
| amp/seg (%) | 61.4 | 5.3 | Interp. | 0.000 | | Bits/sample: 2x2 | | SampCntNorm: enabled | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 4.5 | 1.8 | Inc. seg. avg. | 4.550 | | Sample rate(MSamp/s): 64 | | dr window (ns/s) | -0.012 | 0.012 | |
| amp/frq (%) | 3.3 | 3.1 | Inc. frq. avg. | 3.035 | | Data rate(Mb/s): 1024 | | nlags: 128 t_cohere infinite | ion window (TEC) | 0.00 | 0.00 |

l: az 132.7 el 35.9 pa -36.5 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 1009.372 -65.529 simultaneous interpolator

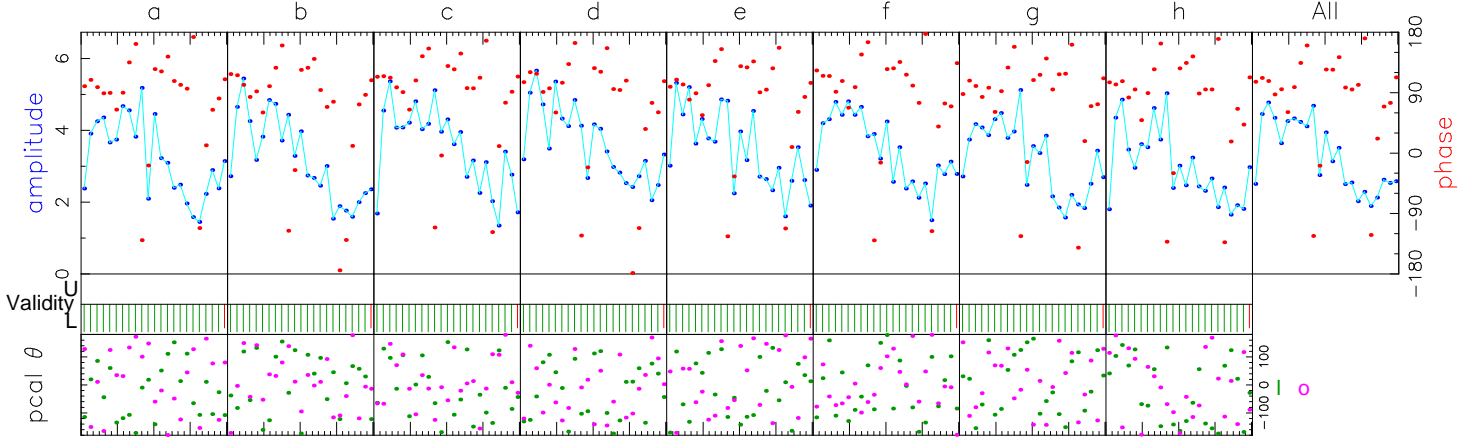
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/lo..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/lo.W.77.zpwwdj



Fringe quality 5
 SNR 67.3
 Int time 239.988
 Amp 2.246
 Phase 290.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.022480
 MBD 0.009200
 Fringe rate (Hz)
 -0.002702
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024514
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

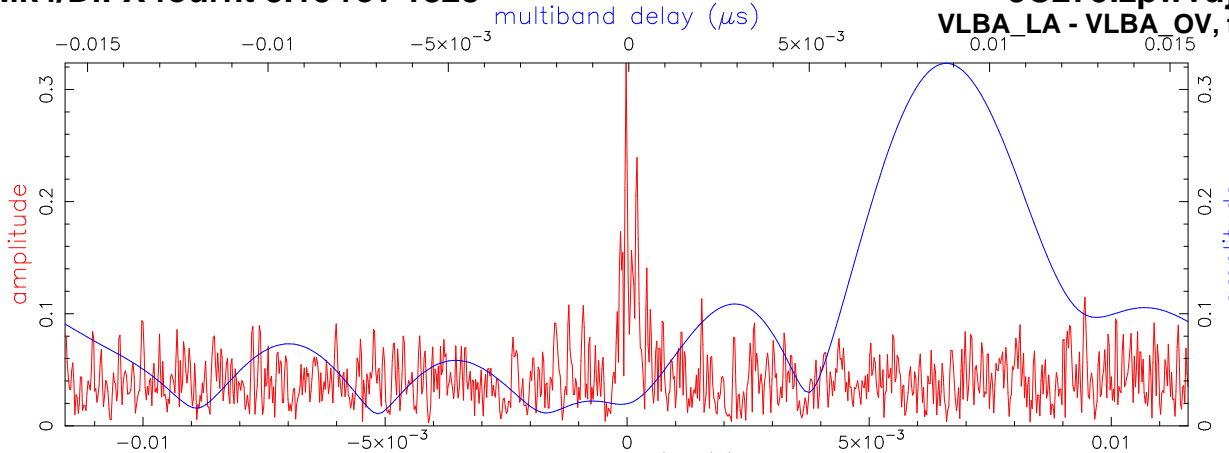


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

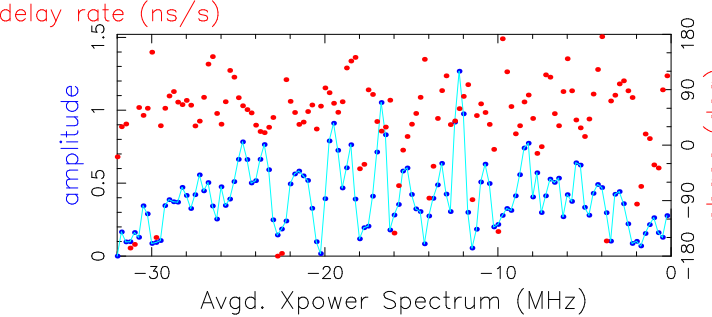
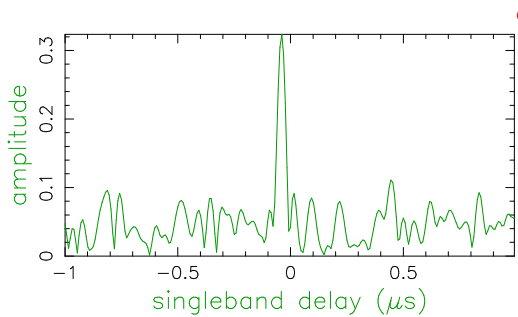


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|-------------------------|--------------------|----------|--------------------------|-----------------|--|----------|------------------------------|----------|------------------|-------------|-------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 108.7 | 110.0 | |
| l | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 108.7 | 110.0 | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 2.2 | 2.2 | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 126.2 | 126.1 | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 126.2 | 126.1 | |
| l | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 2.2 | 2.2 | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 126.2 | 126.1 | |
| l | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | 2.2 | 2.2 | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | 126.2 | 126.1 | |
| Group delay (usec)(sbd) | 2.67472047788E+03 | | Apriori delay (usec) | | 2.67474252740E+03 | | Resid mbdelay (usec) | | 9.20048E-03 | +/- 3.2E-05 | |
| Sband delay (usec) | 2.67472004790E+03 | | Apriori clock (usec) | | -6.4515615E+00 | | Resid sbdelay (usec) | | -2.24795E-02 | +/- 2.6E-04 | |
| Phase delay (usec) | 2.67474253095E+03 | | Apriori clockrate (us/s) | | -3.6045700E-07 | | Resid phdelay (usec) | | 3.54633E-06 | +/- 5.5E-08 | |
| Delay rate (us/s) | -1.77078250586E-01 | | Apriori rate (us/s) | | -1.77078219217E-01 | | Resid rate (us/s) | | -3.13690E-08 | +/- 4.0E-10 | |
| Total phase (deg) | 401.7 | | Apriori accel (us/s/s) | | -1.40215801985E-05 | | Resid phase (deg) | | 290.0 | +/- 1.7 | |
| ph/seg (deg) | RMS | Theor. | Amplitude | 2.246 +/- 0.033 | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | sb window (us) | -1.000 | 1.000 |
| amp/seg (%) | 56.1 | 4.1 | Search (1024X32) | 2.094 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | SampCntNorm: enabled | | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 63.0 | 7.1 | Interp. | 0.000 | Bits/sample: 2x2 | | Sample rate(MSamp/s): 64 | | dr window (ns/s) | -0.012 | 0.012 |
| amp/frq (%) | 2.8 | 2.4 | Inc. seg. avg. | 3.295 | Data rate(Mb/s): 1024 | | nlags: 128 t_cohere infinite | | ion window (TEC) | 0.00 | 0.00 |
| | 7.4 | 4.2 | Inc. frq. avg. | 2.244 | | | | | | | |

l: az 132.7 el 35.9 pa -36.5 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 1009.372 -65.529 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/lo..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/lo.W.78.zpwwdj

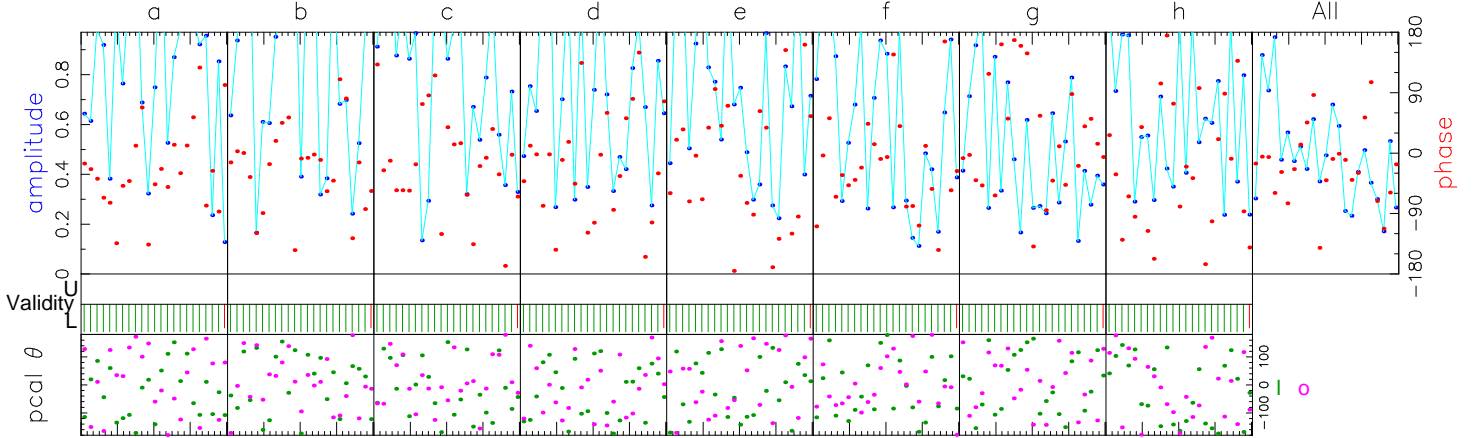


Fringe quality 9
SNR 9.7
Int time 239.988
Amp 0.324
Phase 342.4
PFD 3.3e-14
Delays (us)
SBD -0.039893
MBD 0.008805
Fringe rate (Hz)
-0.002269
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024515
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

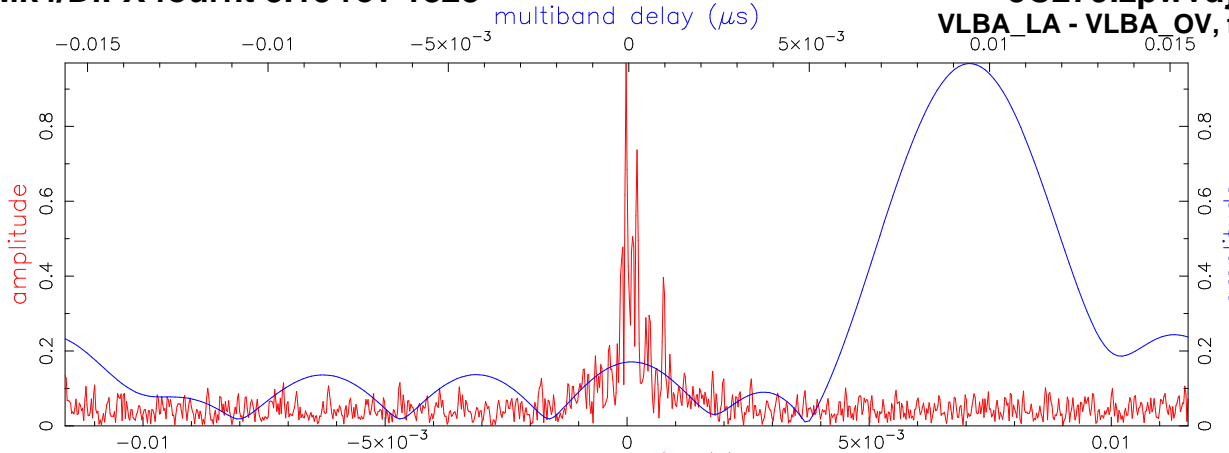
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



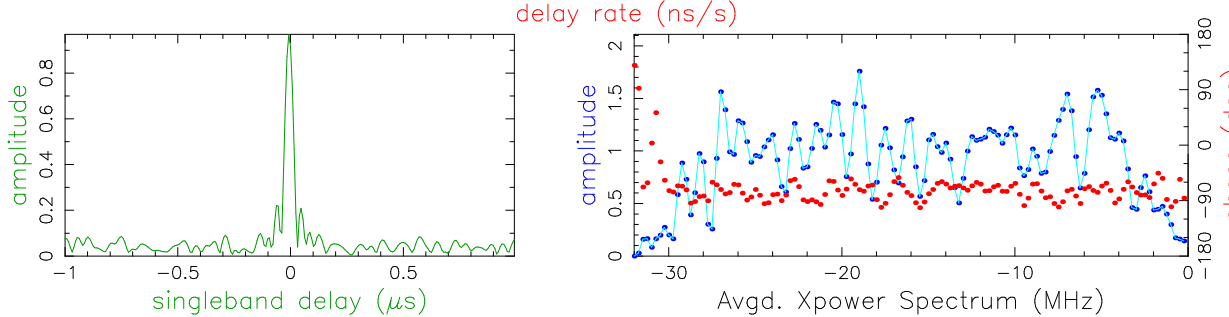
| | | | | | | | | | |
|-------------------------|--------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -28.5 | -15.7 | -14.1 | -6.3 | 3.7 | -19.1 | -6.3 | -50.3 | Phase | -17.6 |
| 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | Ampl. | 0.3 |
| 124.2 | 124.7 | 123.4 | 25.8 | 187.5 | 124.1 | 217.4 | 24.1 | Sbd box | 123.9 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| l -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| l:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| l:o 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| l 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| l W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 2.67468883257E+03 | | Apriori delay (usec) | 2.67474252740E+03 | | Resid mbdelay (usec) | 8.80517E-03 | +/- | 2.2E-04 |
| Sband delay (usec) | 2.67470263440E+03 | | Apriori clock (usec) | -6.4515615E+00 | | Resid sbdelay (usec) | -3.98930E-02 | +/- | 1.8E-03 |
| Phase delay (usec) | 2.67474252683E+03 | | Apriori clockrate (us/s) | -3.6045700E-07 | | Resid phdelay (usec) | -5.67324E-07 | +/- | 3.8E-07 |
| Delay rate (us/s) | -1.77078245555E-01 | | Apriori rate (us/s) | -1.77078219217E-01 | | Resid rate (us/s) | -2.63379E-08 | +/- | 2.8E-09 |
| Total phase (deg) | 454.1 | | Apriori accel (us/s/s) | -1.40215801985E-05 | | Resid phase (deg) | 342.4 | +/- | 11.8 |

ph/seg (deg) 56.0 28.3 Search (1024X32) 0.321 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.9 49.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 17.9 16.7 Inc. seg. avg. 0.430 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 39.6 29.2 Inc. frq. avg. 0.318 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
ion window (TEC) 0.00 0.00

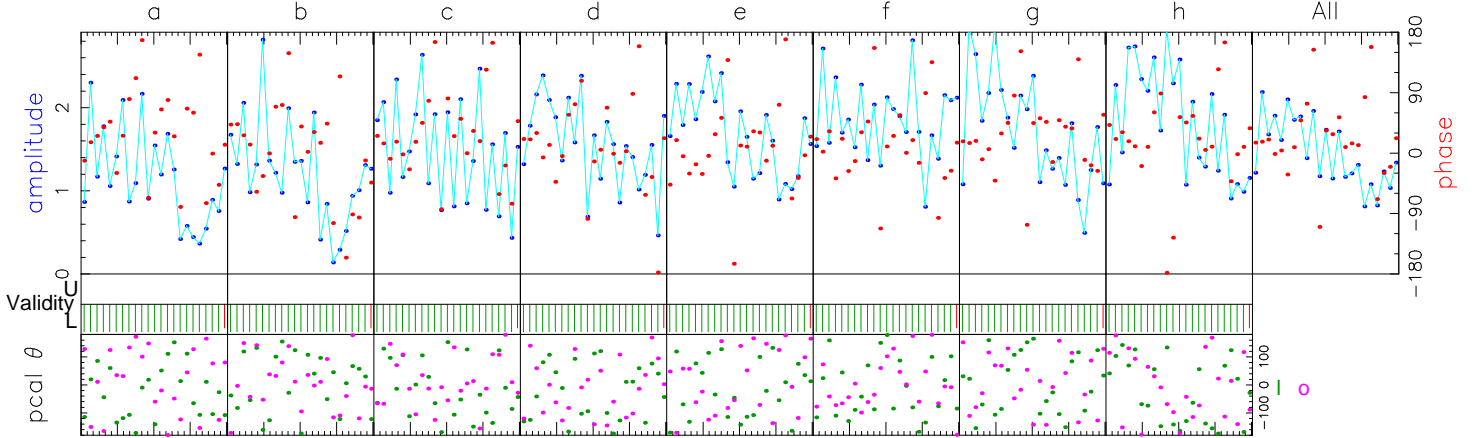
l: az 132.7 el 35.9 pa -36.5 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 1009.372 -65.529 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/lo..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/lo.W.79.zpwwdj



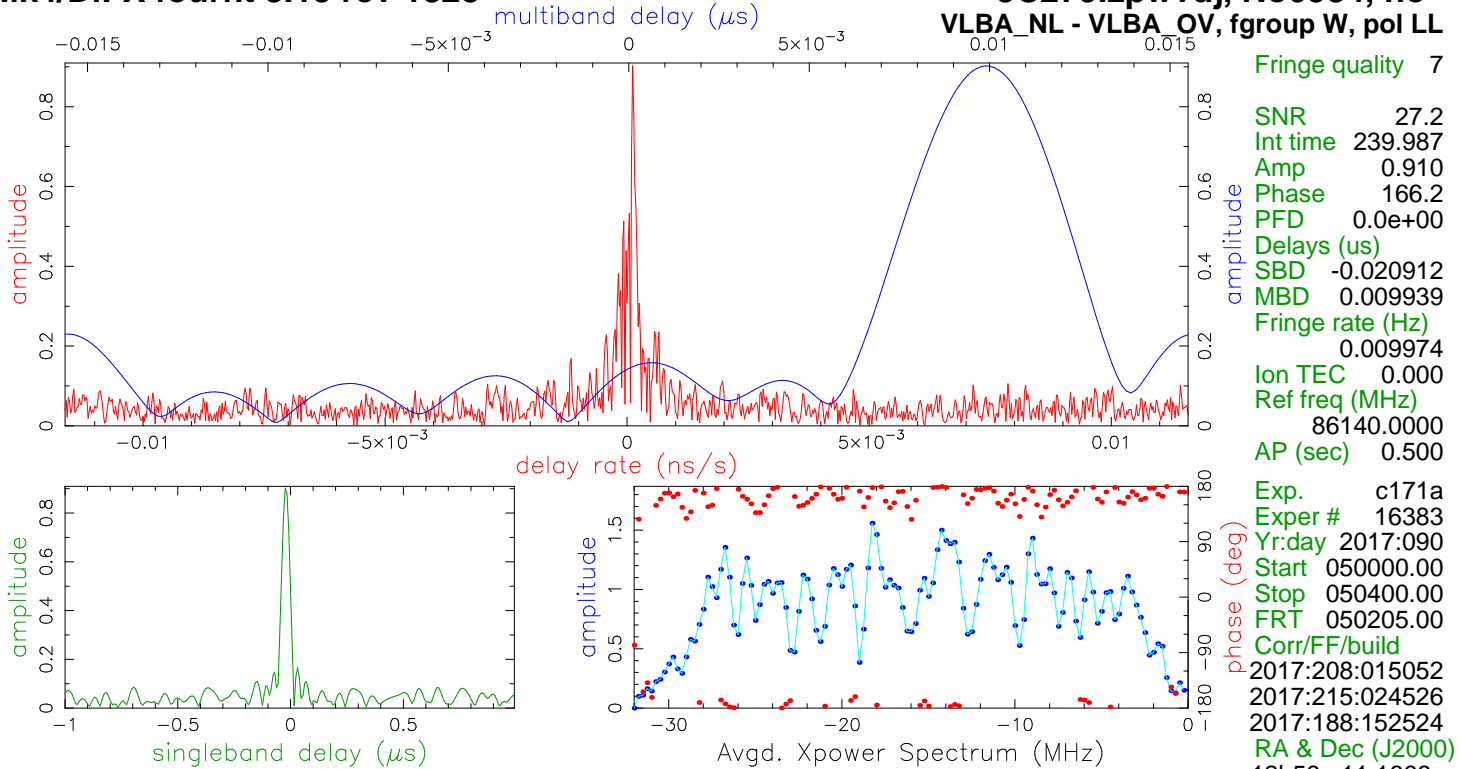
Fringe quality 5
SNR 29.0
Int time 239.988
Amp 0.970
Phase 198.0
PFD 0.0e+00
Delays (us)
SBD -0.006671
MBD 0.009454
Fringe rate (Hz)
-0.002817
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024516
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



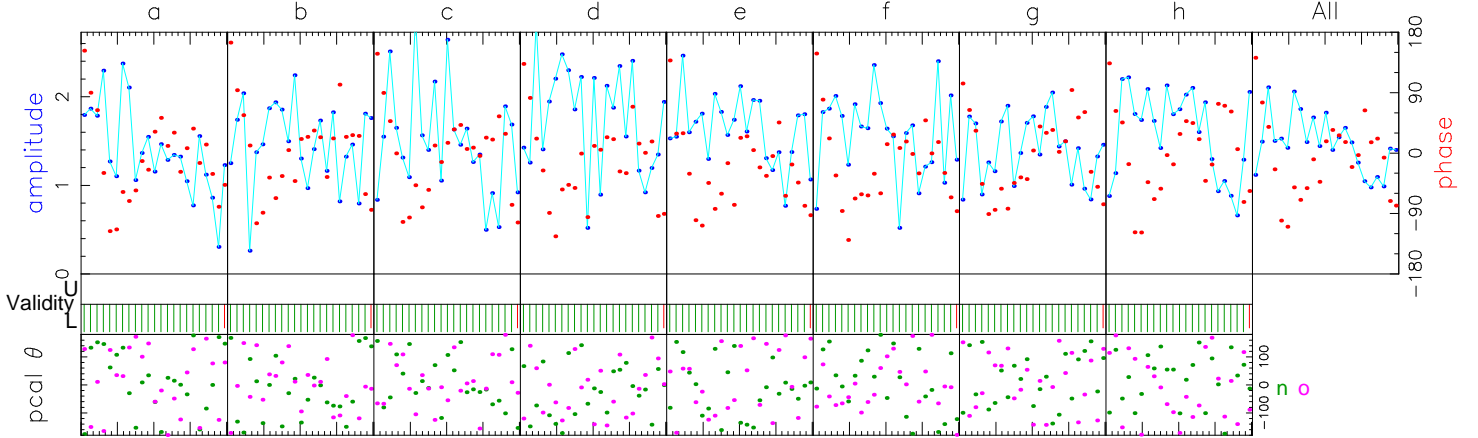
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|---|--------------------|----------|--------------------------|-----------------|--|----------|------------------------------|----------|--------------|-------------|
| | 32.1 | 7.2 | 28.2 | 18.7 | 3.3 | 7.2 | 20.5 | 31.7 | Phase | 18.0 |
| | 0.7 | 0.6 | 1.0 | 1.0 | 1.2 | 1.2 | 1.1 | 1.0 | Ampl. | 1.0 |
| | 127.8 | 128.0 | 128.2 | 128.1 | 128.4 | 128.2 | 128.0 | 128.4 | Sbd box | 128.1 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| l | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| l:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| l | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| l | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 2.67472073188E+03 | | Apriori delay (usec) | | 2.67474252740E+03 | | Resid mbdelay (usec) | | 9.45448E-03 | +/- 7.5E-05 |
| Sband delay (usec) | 2.67473585590E+03 | | Apriori clock (usec) | | -6.4515615E+00 | | Resid sbdelay (usec) | | -6.67150E-03 | +/- 5.9E-04 |
| Phase delay (usec) | 2.67474252798E+03 | | Apriori clockrate (us/s) | | -3.6045700E-07 | | Resid phdelay (usec) | | 5.80176E-07 | +/- 1.3E-07 |
| Delay rate (us/s) | -1.77078251924E-01 | | Apriori rate (us/s) | | -1.77078219217E-01 | | Resid rate (us/s) | | -3.27069E-08 | +/- 9.2E-10 |
| Total phase (deg) | 309.7 | | Apriori accel (us/s/s) | | -1.40215801985E-05 | | Resid phase (deg) | | 198.0 | +/- 3.9 |
| | RMS | Theor. | Amplitude | 0.970 +/- 0.033 | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | |
| ph/seg (deg) | 58.7 | 9.5 | Search (1024X32) | 0.890 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | | -1.000 | 1.000 |
| amp/seg (%) | 65.0 | 16.5 | Interp. | 0.000 | Bits/sample: 2x2 | | SampCntNorm: enabled | | -0.016 | 0.016 |
| ph/frq (deg) | 12.6 | 5.6 | Inc. seg. avg. | 1.442 | Sample rate(MSamp/s): 64 | | dr window (ns/s) | | -0.012 | 0.012 |
| amp/frq (%) | 21.3 | 9.7 | Inc. frq. avg. | 0.981 | Data rate(Mb/s): 1024 | | nlags: 128 t_cohere infinite | | 0.00 | 0.00 |
| l: az 132.7 el 35.9 pa -36.5 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 1009.372 -65.529 simultaneous interpolator | | | | | | | | | | |
| Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/lo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/lo.W.80.zpwvdj | | | | | | | | | | |

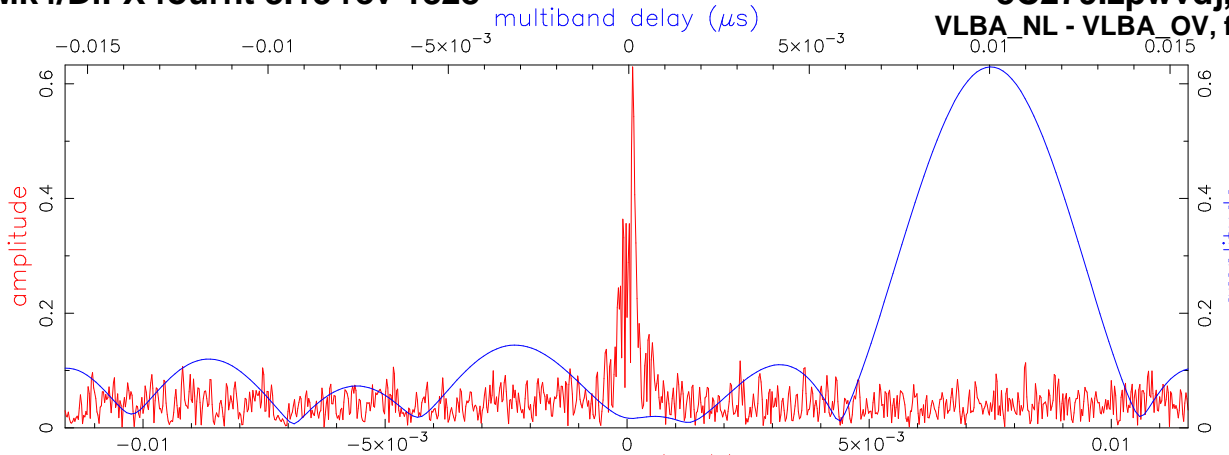


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

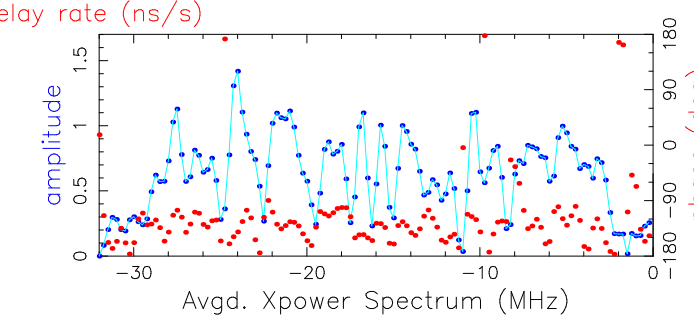
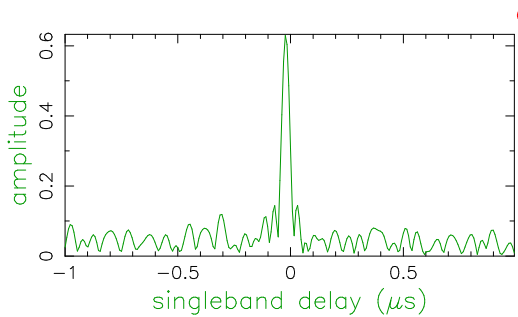


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|--------------------------|-----------|--------------------|----------|----------|--------------------|----------|----------|----------|------------------|--------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| n | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| n | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| n | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |
| Group delay (usec)(sbd) | | 3.33888894627E+03 | | | 3.33891025700E+03 | | | | 9.93927E-03 | +/- 8.0E-05 |
| Sband delay (usec) | | 3.33888934500E+03 | | | 3.1946893E+00 | | | | -2.09120E-02 | +/- 6.3E-04 |
| Phase delay (usec) | | 3.33891025656E+03 | | | 3.7102605E-08 | | | | -4.43487E-07 | +/- 1.4E-07 |
| Delay rate (us/s) | | -4.94586543685E-01 | | | -4.94586659473E-01 | | | | 1.15788E-07 | +/- 9.8E-10 |
| Total phase (deg) | | | 360.0 | | -1.84432760760E-05 | | | | 166.2 | +/- 4.2 |
| ph/seg (deg) | 59.0 | 10.1 | | | 0.897 | | | | | |
| amp/seg (%) | 70.5 | 17.6 | | | 0.000 | | | | | |
| ph/frq (deg) | 10.4 | 5.9 | | | 1.451 | | | | | |
| amp/frq (%) | 11.0 | 10.4 | | | 0.909 | | | | | |
| Apriori delay (usec) | | | | | 0.897 | | | | | |
| Apriori clock (usec) | | | | | 3.1946893E+00 | | | | | |
| Apriori clockrate (us/s) | | | | | 3.7102605E-08 | | | | | |
| Apriori rate (us/s) | | | | | -4.94586659473E-01 | | | | | |
| Apriori accel (us/s/s) | | | | | -1.84432760760E-05 | | | | | |
| Resid mbdelay (usec) | | | | | | | | | 9.93927E-03 | +/- 8.0E-05 |
| Resid sbdelay (usec) | | | | | | | | | -2.09120E-02 | +/- 6.3E-04 |
| Resid phdelay (usec) | | | | | | | | | -4.43487E-07 | +/- 1.4E-07 |
| Resid rate (us/s) | | | | | | | | | 1.15788E-07 | +/- 9.8E-10 |
| Resid phase (deg) | | | | | | | | | 166.2 | +/- 4.2 |
| Pcal mode: | MANUAL | MANUAL | | | MANUAL | | | | PC period (AP's) | 5, 5 |
| Pcal rate: | 0.000E+00 | 0.000E+00 | | | 0.000E+00 | | | | sb window (us) | -1.000 1.000 |
| Bits/sample: | 2x2 | | | | 2x2 | | | | mb window (us) | -0.016 0.016 |
| Sample rate (MSamp/s): | 64 | | | | 64 | | | | dr window (ns/s) | -0.012 0.012 |
| Data rate (Mb/s): | 1024 | | | | 1024 | | | | ion window (TEC) | 0.00 0.00 |
| nlags: | 128 | | | | 128 | | | | t_cohere | infinite |

n: az 151.6 el 38.3 pa -20.6 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 2834.452 688.521 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/no.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/no.W.89.zpwvdj

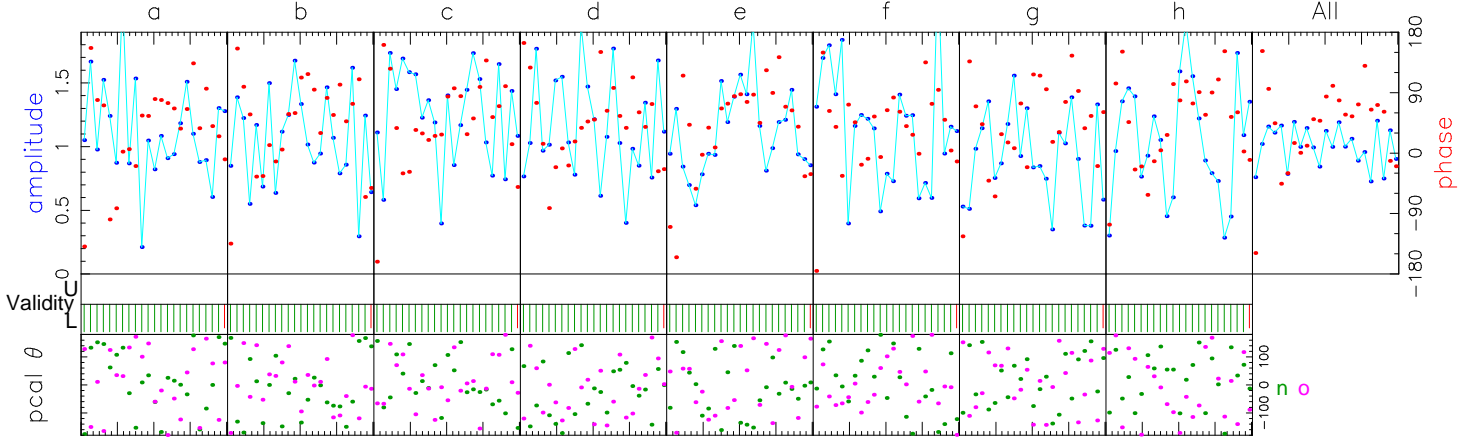


Fringe quality 9
SNR 19.0
Int time 239.987
Amp 0.633
Phase 231.4
PFD 0.0e+00
Delays (us)
SBD -0.021523
MBD 0.010034
Fringe rate (Hz)
0.010150
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



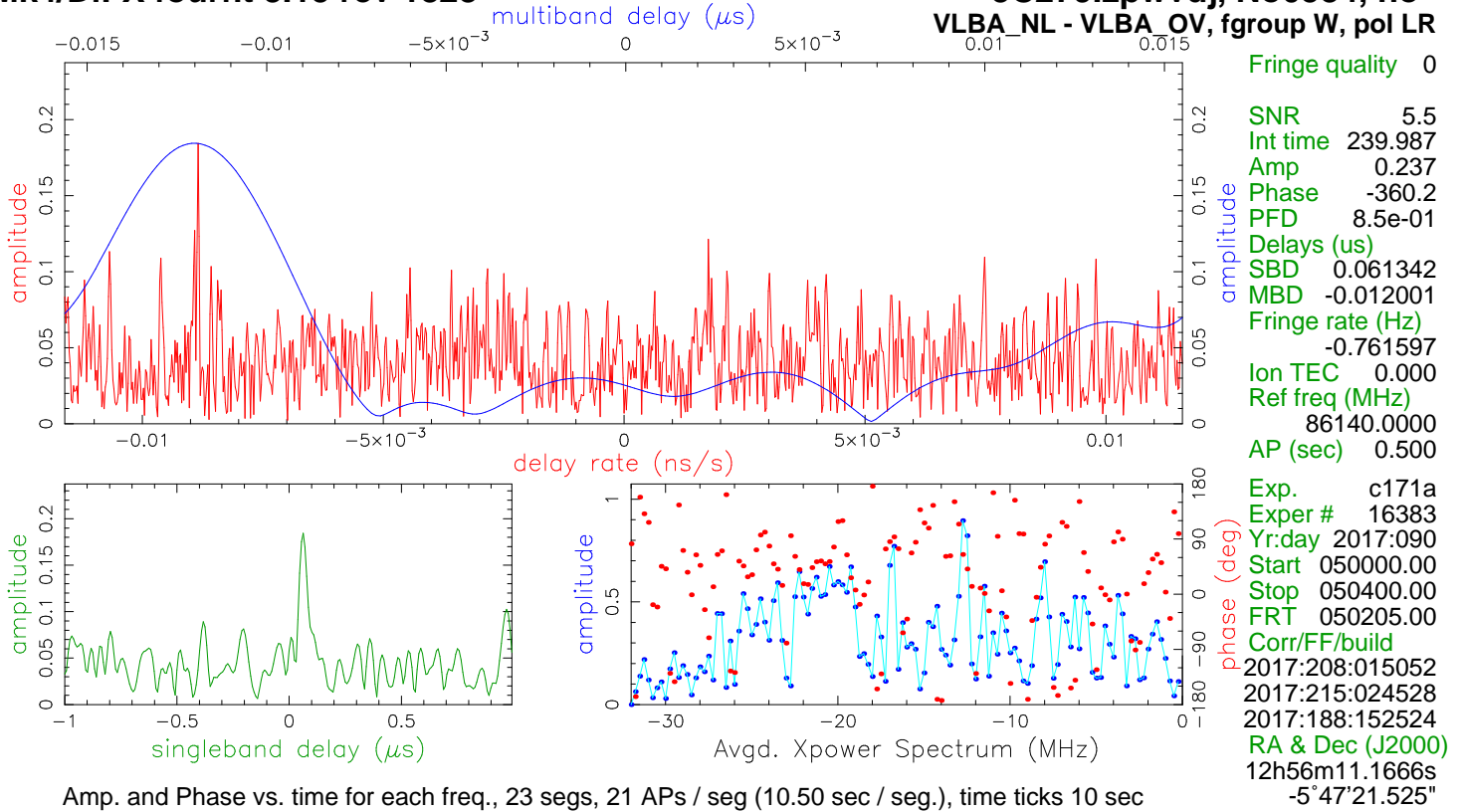
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024527
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

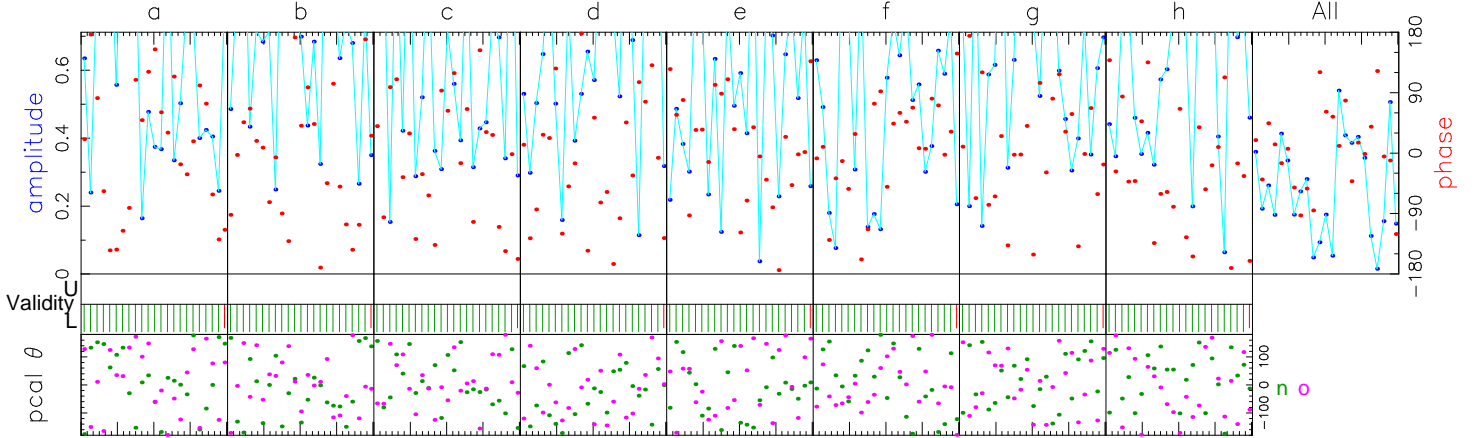


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | 86412.00 | All |
|-------------------------|-----------|--------------------|----------|----------|--------------------|----------|----------|----------|--------------|-------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | |
| n | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | |
| n | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| n | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | W08LR | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | W08LR | |
| Group delay (usec)(sbd) | | 3.33888904065E+03 | | | 3.33891025700E+03 | | | | 1.00336E-02 | +/- 1.1E-04 |
| Sband delay (usec) | | 3.33888873400E+03 | | | 3.1946893E+00 | | | | -2.15230E-02 | +/- 9.1E-04 |
| Phase delay (usec) | | 3.33891025866E+03 | | | 3.7102605E-08 | | | | 1.65816E-06 | +/- 1.9E-07 |
| Delay rate (us/s) | | -4.94586541640E-01 | | | -4.94586659473E-01 | | | | 1.17833E-07 | +/- 1.4E-09 |
| Total phase (deg) | | | 425.2 | | -1.84432760760E-05 | | | | 231.4 | +/- 6.0 |
| RMS | 58.8 | 14.5 | | | 0.633 +/- 0.033 | | | | | |
| ph/seg (deg) | 58.8 | 14.5 | | | 0.619 | | | | | |
| amp/seg (%) | 63.5 | 25.3 | | | 0.000 | | | | | |
| ph/frq (deg) | 9.8 | 8.5 | | | 0.974 | | | | | |
| amp/frq (%) | 13.8 | 14.9 | | | 0.630 | | | | | |
| Group delay (usec)(sbd) | | | | | | | | | | |
| Sband delay (usec) | | | | | | | | | | |
| Phase delay (usec) | | | | | | | | | | |
| Delay rate (us/s) | | | | | | | | | | |
| Total phase (deg) | | | | | | | | | | |
| pcal mode: | MANUAL | MANUAL | | | MANUAL | | | | MANUAL | |
| pcal rate: | 0.000E+00 | 0.000E+00 | | | 0.000E+00 | | | | 0.000E+00 | |
| Bits/sample: | 2x2 | | | | 2x2 | | | | | |
| Sample rate(MSamp/s): | 64 | | | | 64 | | | | | |
| Data rate(Mb/s): | 1024 | | | | 1024 | | | | | |
| nlags: | 128 | | | | 128 | | | | | |
| t_cohere: | infinite | | | | infinite | | | | | |
| sb window (us) | -1.000 | 1.000 | | | | | | | | |
| mb window (us) | -0.016 | 0.016 | | | | | | | | |
| dr window (ns/s) | -0.012 | 0.012 | | | | | | | | |
| ion window (TEC) | 0.00 | 0.00 | | | | | | | | |

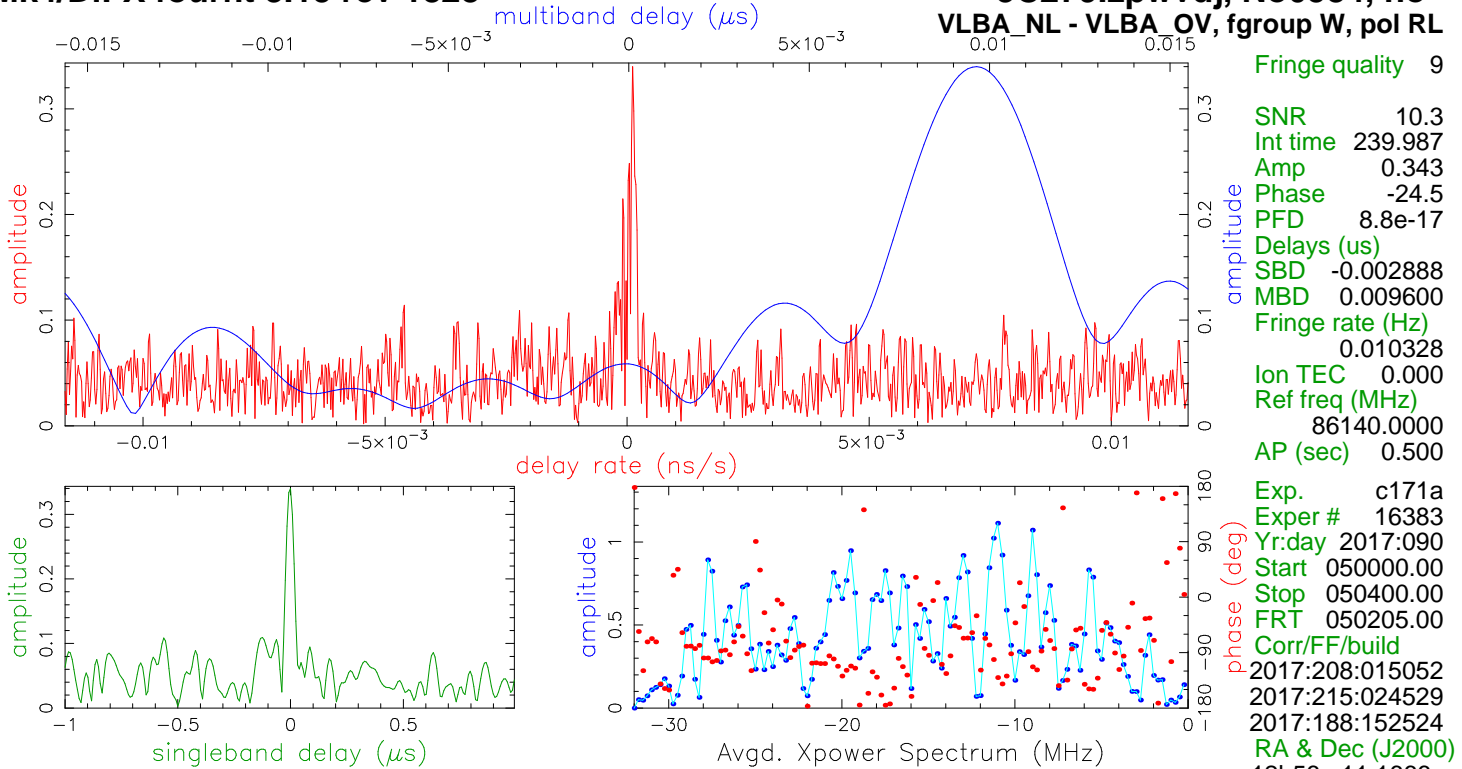
n: az 151.6 el 38.3 pa -20.6 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 2834.452 688.521 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/no.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/no.W.90.zpwvdj



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

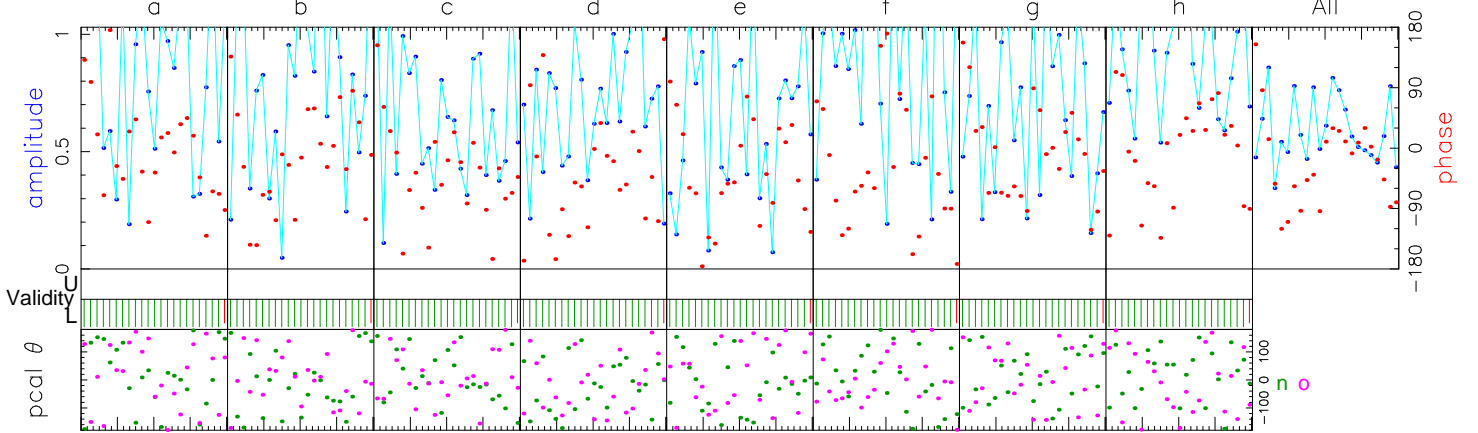


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|-------------------------|----------|--------------------|----------|--------------------------|----------|--------------------|----------|--|------------------------------|------------------|--------------|
| | -8.8 | -31.5 | 15.8 | -14.9 | 18.8 | 19.8 | 1.0 | -34.0 | Phase | -0.2 | |
| | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | Ampl. | 0.2 | |
| | 199.9 | 32.4 | 110.9 | 253.2 | 136.3 | 135.8 | 136.3 | 14.1 | Sbd box | 136.9 | |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | | |
| n | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | | |
| n | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | |
| n | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | | |
| | | | | | | | | | Chan ids | | |
| | | | | | | | | | Tracks | | |
| Group delay (usec)(sbd) | | 3.33896075643E+03 | | Apriori delay (usec) | | 3.33891025700E+03 | | Resid mbdelay (usec) | -1.20006E-02 | +/- 3.9E-04 | |
| Sband delay (usec) | | 3.33897159900E+03 | | Apriori clock (usec) | | 3.1946893E+00 | | Resid sbdelay (usec) | 6.13420E-02 | +/- 3.1E-03 | |
| Phase delay (usec) | | 3.33891025700E+03 | | Apriori clockrate (us/s) | | 3.7102605E-08 | | Resid phdelay (usec) | -7.72404E-09 | +/- 6.7E-07 | |
| Delay rate (us/s) | | -4.94595500861E-01 | | Apriori rate (us/s) | | -4.94586659473E-01 | | Resid rate (us/s) | -8.84139E-06 | +/- 4.8E-09 | |
| Total phase (deg) | | | -166.5 | Apriori accel (us/s/s) | | -1.84432760760E-05 | | Resid phase (deg) | -360.2 | +/- 20.7 | |
| RMS | 60.7 | 49.7 | | Search (1024X32) | 0.181 | | | PCal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
| ph/seg (deg) | 87.5 | 86.7 | | Interp. | 0.000 | | | PCal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 1.000 | |
| amp/seg (%) | 23.9 | 29.3 | | Inc. seg. avg. | 0.237 | | | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.016 0.016 |
| ph/frq (deg) | 41.1 | 51.1 | | Inc. frq. avg. | 0.224 | | | Sample rate(MSamp/s): 64 | | dr window (ns/s) | -0.012 0.012 |
| amp/frq (%) | | | | | | | | Data rate(Mb/s): 1024 | nlags: 128 t_cohere infinite | ion window (TEC) | 0.00 0.00 |



Fringe quality 9
 SNR 10.3
 Int time 239.987
 Amp 0.343
 Phase -24.5
 PFD 8.8e-17
 Delays (us)
 SBD -0.002888
 MBD 0.009600
 Fringe rate (Hz) 0.010328
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024529
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

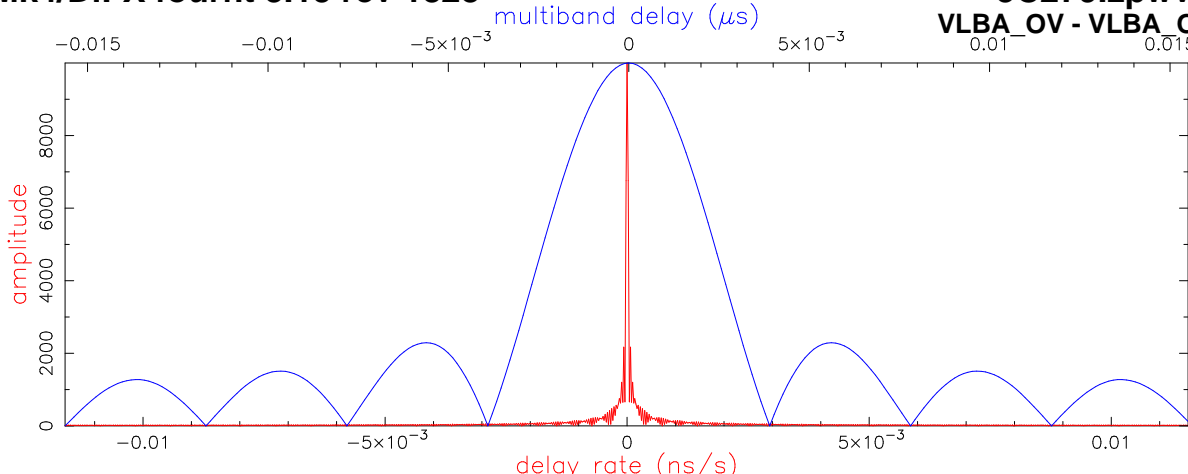
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



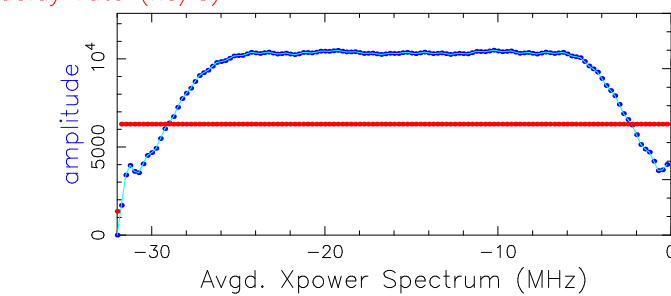
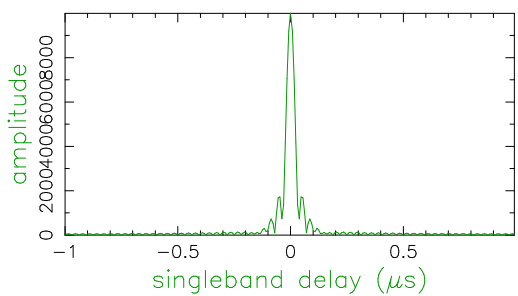
| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| | -9.0 | -5.0 | -46.7 | -49.4 | -40.8 | -48.1 | -12.7 | 3.3 | Phase | -24.5 |
| | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | Ampl. | 0.4 |
| | 128.6 | 128.8 | 120.8 | 128.8 | 111.8 | 129.2 | 128.3 | 128.7 | Sbd box | 128.6 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| n | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| n:o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| n | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| n | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 3.33891985702E+03 | | Apriori delay (usec) | | 3.33891025700E+03 | | Resid mbdelay (usec) | | 9.60002E-03 | +/- 2.1E-04 |
| Sband delay (usec) | 3.33890736850E+03 | | Apriori clock (usec) | | 3.1946893E+00 | | Resid sbdelay (usec) | | -2.88850E-03 | +/- 1.7E-03 |
| Phase delay (usec) | 3.33891025621E+03 | | Apriori clockrate (us/s) | | 3.7102605E-08 | | Resid phdelay (usec) | | -7.89387E-07 | +/- 3.6E-07 |
| Delay rate (us/s) | -4.94586539578E-01 | | Apriori rate (us/s) | | -4.94586659473E-01 | | Resid rate (us/s) | | 1.19895E-07 | +/- 2.6E-09 |
| Total phase (deg) | 169.3 | | Apriori accel (us/s/s) | | -1.84432760760E-05 | | Resid phase (deg) | | -24.5 | +/- 11.1 |

RMS Theor. Amplitude 0.343 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 64.2 26.7 Search (1024X32) 0.332 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 83.3 46.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 24.0 15.8 Inc. seg. avg. 0.536 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 15.1 27.5 Inc. frq. avg. 0.350 ion window (TEC) 0.00 0.00

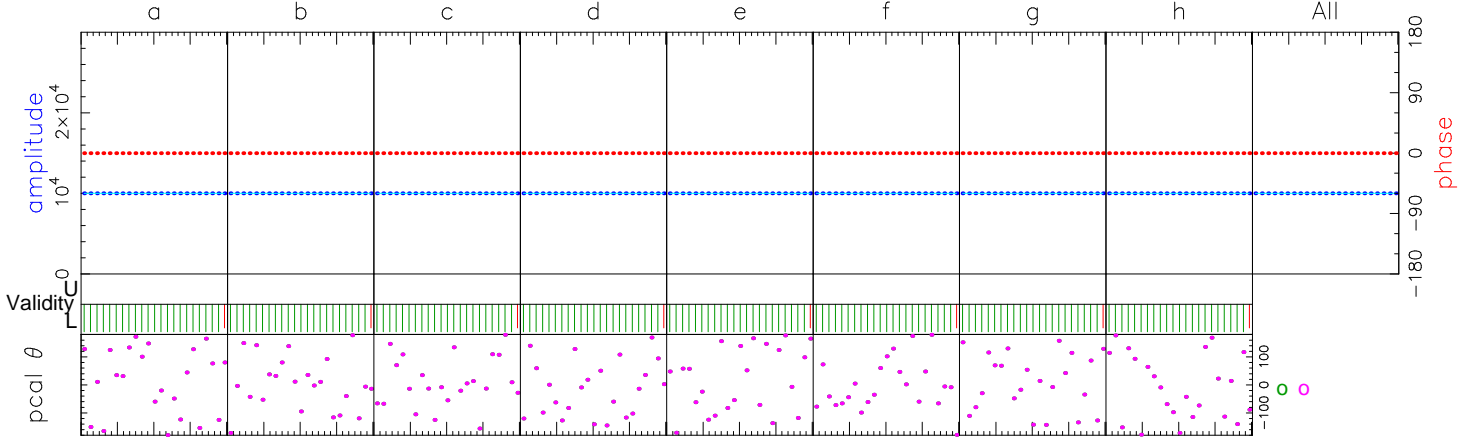
n: az 151.6 el 38.3 pa -20.6 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 2834.452 688.521 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/no.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/no.W.92.zpwvdj



Fringe quality 9
 SNR 299556.9
 Int time 239.990
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024612
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

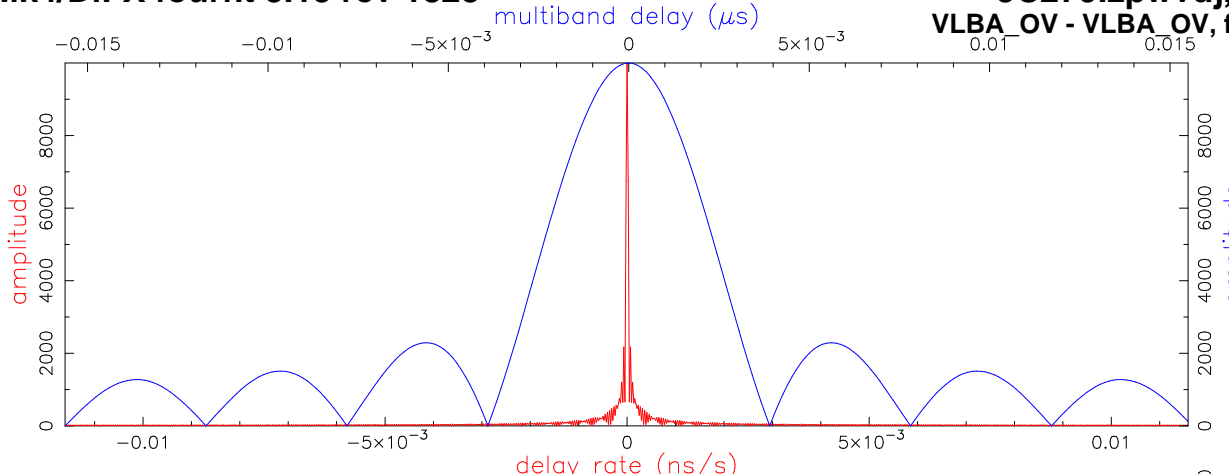


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|-------------------------|
| Validity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0.0 |
| pcal θ | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | Ampl. | 10000.0 |
| U/L | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | Sbd box | 129.0 |
| o | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| Group delay (usec)(sbd) | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | Resid mbdelay (usec) | 0.00000E+00 +/- 7.2E-09 |
| Sband delay (usec) | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | Resid sbdelay (usec) | 0.00000E+00 +/- 5.8E-08 |
| Phase delay (usec) | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | Resid phdelay (usec) | 0.00000E+00 +/- 1.2E-11 |
| Delay rate (us/s) | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | 0.0000000000E+00 | Resid rate (us/s) | 0.00000E+00 +/- 8.9E-14 |
| Total phase (deg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Resid phase (deg) | 0.0 +/- 0.0 |

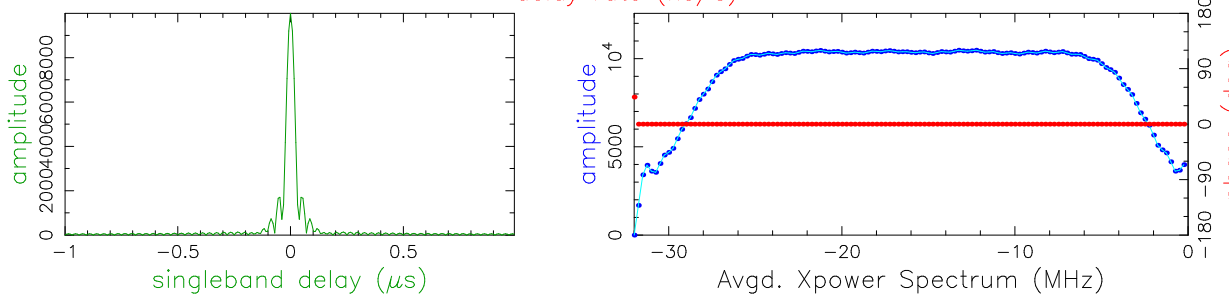
RMS Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 o: az 122.6 el 27.4 pa -42.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oo.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/oo.W.133.zpvdj



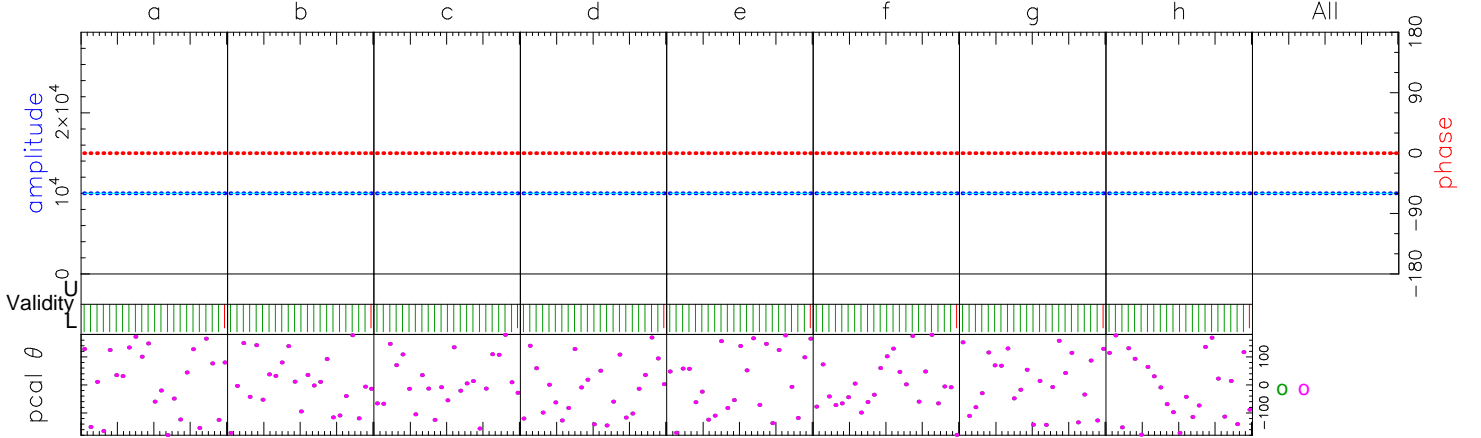
Fringe quality 9

SNR 299556.9
 Int time 239.990
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024613
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

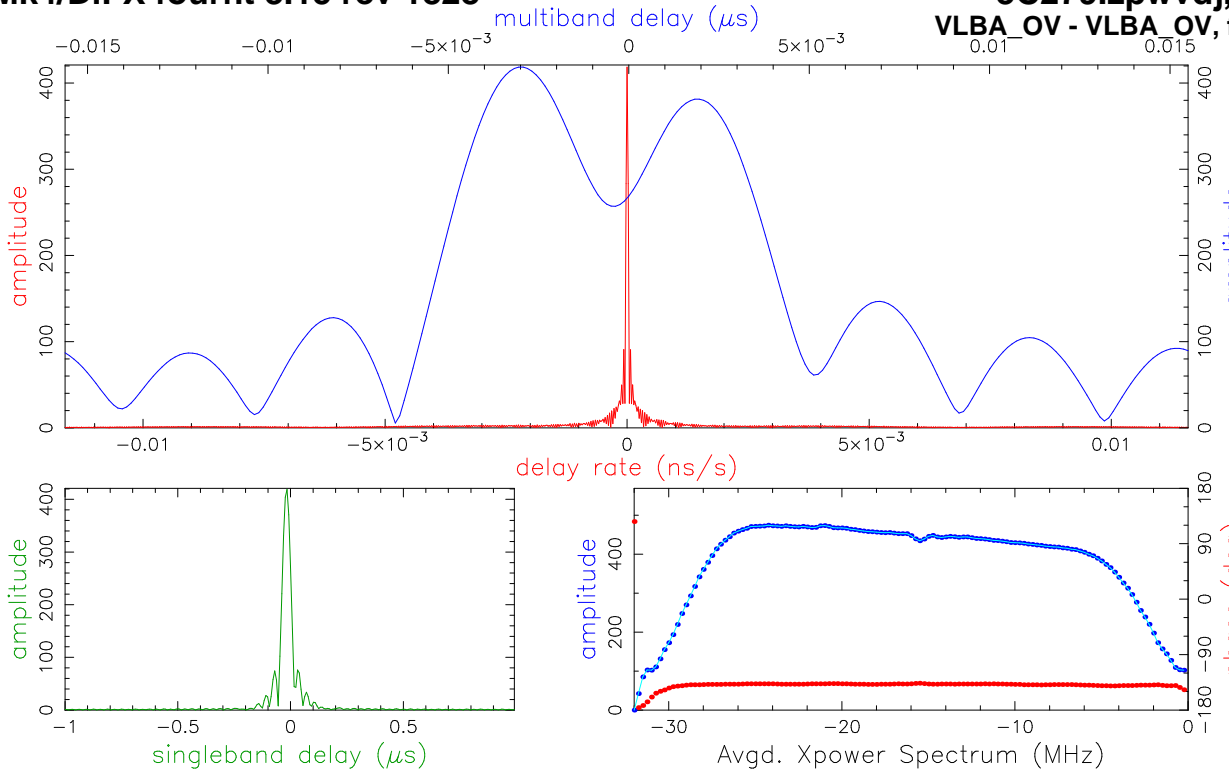


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|-------------------------|------------------|--------------------------|------------------|----------------------|-------------|----------|----------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Phase | 0.0 |
| 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | 10000.0 | Ampl. | 10000.0 |
| 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | Sbd box | 129.0 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:0 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 0.0000000000E+00 | Apriori delay (usec) | 0.0000000000E+00 | Resid mbdelay (usec) | 0.00000E+00 | +/- | 7.2E-09 | | |
| Sband delay (usec) | 0.0000000000E+00 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 0.00000E+00 | +/- | 5.8E-08 | | |
| Phase delay (usec) | 0.0000000000E+00 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 0.00000E+00 | +/- | 1.2E-11 | | |
| Delay rate (us/s) | 0.0000000000E+00 | Apriori rate (us/s) | 0.0000000000E+00 | Resid rate (us/s) | 0.00000E+00 | +/- | 8.9E-14 | | |
| Total phase (deg) | 0.0 | Apriori accel (us/s/s) | 0.0000000000E+00 | Resid phase (deg) | 0.0 | +/- | 0.0 | | |

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 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 mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 o: az 122.6 el 27.4 pa -42.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/oo.W.134.zpwvdj simultaneous interpolator

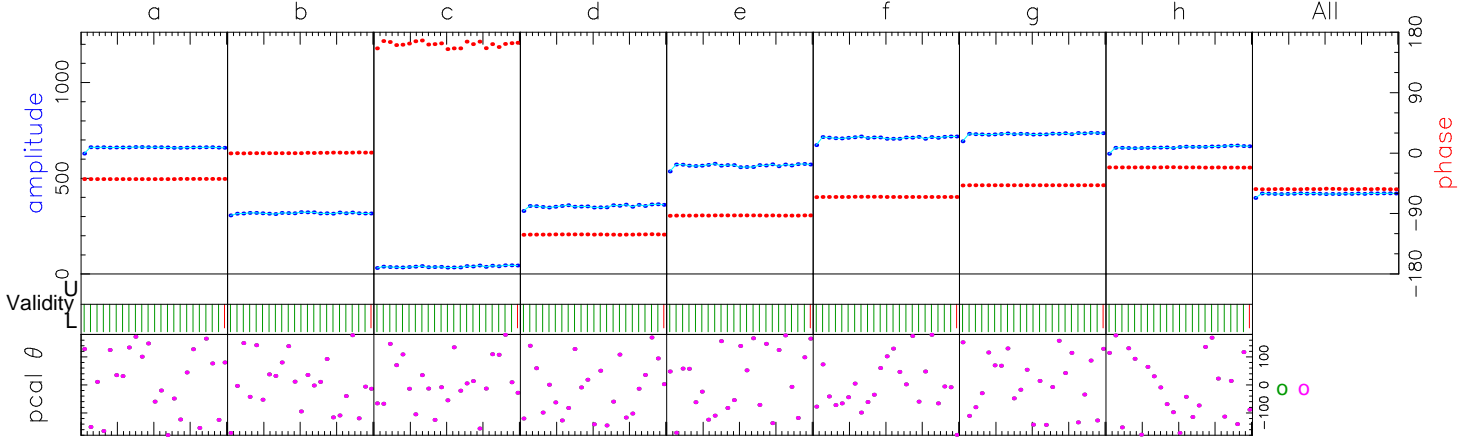


Fringe quality 5

SNR 12613.1
Int time 239.990
Amp 421.058
Phase -53.6
PFD 0.0e+00
Delays (us)
SBD -0.017738
MBD -0.002988
Fringe rate (Hz)
-0.000004
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

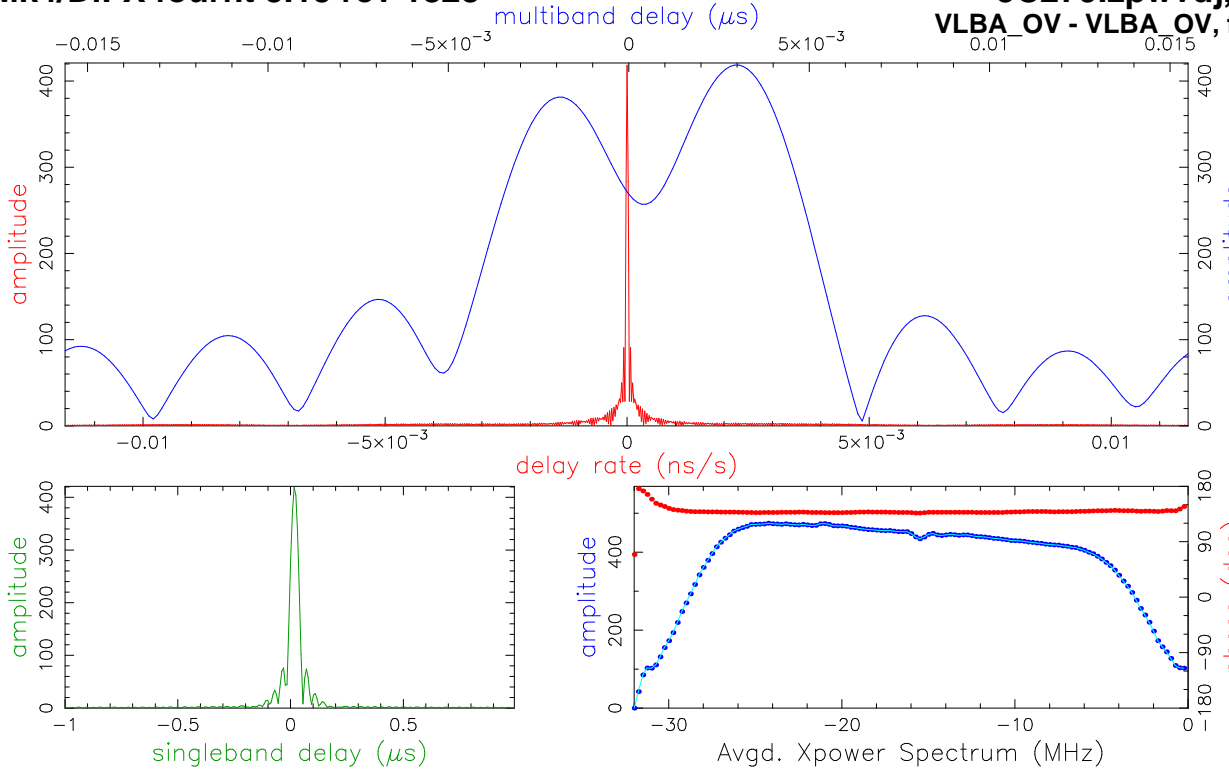
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024614
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



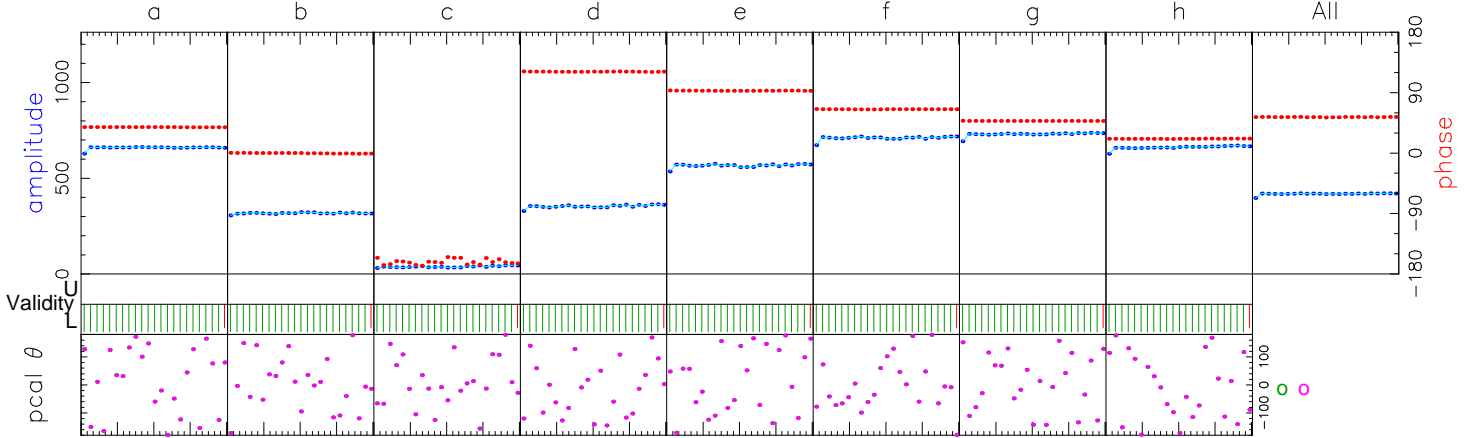
| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|----------|-------------------|----------|----------------------|----------|--------------|-------------|
| | -38.6 | 0.2 | 162.0 | -121.2 | -92.9 | -65.2 | -47.9 | -21.3 | Phase | -53.6 |
| | 659.9 | 317.4 | 38.5 | 353.9 | 566.6 | 710.7 | 730.4 | 661.6 | Ampl. | 504.9 |
| | 127.1 | 127.0 | 129.5 | 127.0 | 126.9 | 127.0 | 126.7 | 127.1 | Sbd box | 126.7 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.98818750000E-03 | | Apriori delay (usec) | | 0.00000000000E+00 | | Resid mbdelay (usec) | | -2.98819E-03 | +/- 1.7E-07 |
| Sband delay (usec) | -1.77380000000E-02 | | Apriori clock (usec) | | 0.0000000E+00 | | Resid sbdelay (usec) | | -1.77380E-02 | +/- 1.4E-06 |
| Phase delay (usec) | -1.72771874575E-06 | | Apriori clockrate (us/s) | | 0.0000000E+00 | | Resid phdelay (usec) | | -1.72772E-06 | +/- 2.9E-10 |
| Delay rate (us/s) | -4.93382865103E-11 | | Apriori rate (us/s) | | 0.00000000000E+00 | | Resid rate (us/s) | | -4.93383E-11 | +/- 2.1E-12 |
| Total phase (deg) | | | Apriori accel (us/s/s) | | 0.00000000000E+00 | | Resid phase (deg) | | -53.6 | +/- 0.0 |

ph/seg (deg) 0.2 0.0 Search (1024X32) 418.489 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.2 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.2 0.0 Inc. seg. avg. 418.694 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 58.0 0.0 Inc. frq. avg. 504.858 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 o: az 122.6 el 27.4 pa -42.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



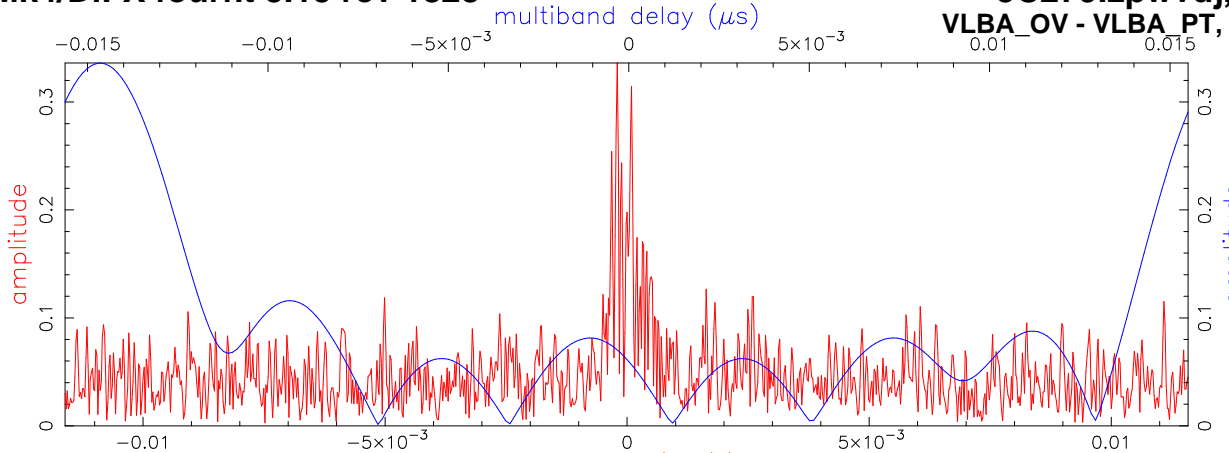
Fringe quality 5
 SNR 12613.1
 Int time 239.990
 Amp 421.058
 Phase 53.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.017738
 MBD 0.002988
 Fringe rate (Hz) 0.000004
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024615
 2017:188:152524
 RA & Dec (J2000) 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

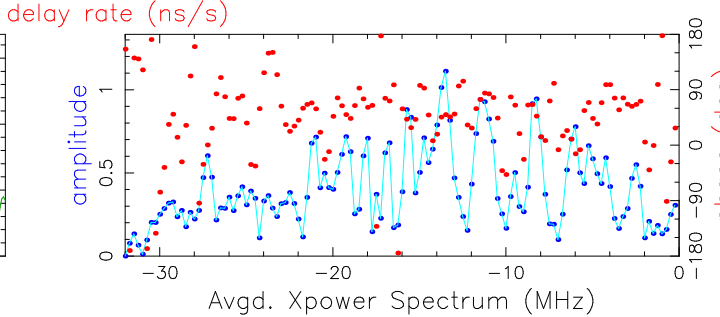
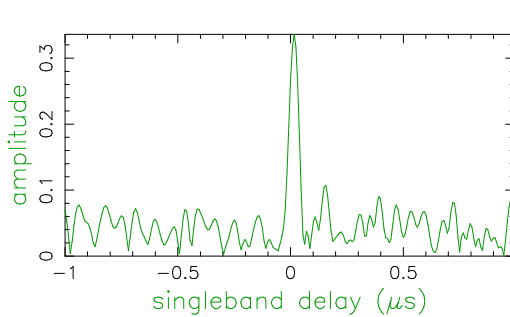


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|-------------------|----------|--------------------------|----------|-------------------|----------|----------------------|----------|-------------|-------------|
| | 38.6 | -0.2 | -162.0 | 121.2 | 92.9 | 65.2 | 47.9 | 21.3 | Phase | 53.6 |
| | 659.9 | 317.4 | 38.5 | 353.9 | 566.6 | 710.7 | 730.4 | 661.6 | Ampl. | 504.9 |
| | 130.9 | 131.0 | 128.5 | 131.0 | 131.1 | 131.0 | 131.3 | 130.9 | Sbd box | 131.3 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 2.98818750000E-03 | | Apriori delay (usec) | | 0.00000000000E+00 | | Resid mbdelay (usec) | | 2.98819E-03 | +/- 1.7E-07 |
| Sband delay (usec) | 1.77380000000E-02 | | Apriori clock (usec) | | 0.0000000E+00 | | Resid sbdelay (usec) | | 1.77380E-02 | +/- 1.4E-06 |
| Phase delay (usec) | 1.72771874581E-06 | | Apriori clockrate (us/s) | | 0.0000000E+00 | | Resid phdelay (usec) | | 1.72772E-06 | +/- 2.9E-10 |
| Delay rate (us/s) | 4.93382865103E-11 | | Apriori rate (us/s) | | 0.00000000000E+00 | | Resid rate (us/s) | | 4.93383E-11 | +/- 2.1E-12 |
| Total phase (deg) | 53.6 | | Apriori accel (us/s/s) | | 0.00000000000E+00 | | Resid phase (deg) | | 53.6 | +/- 0.0 |

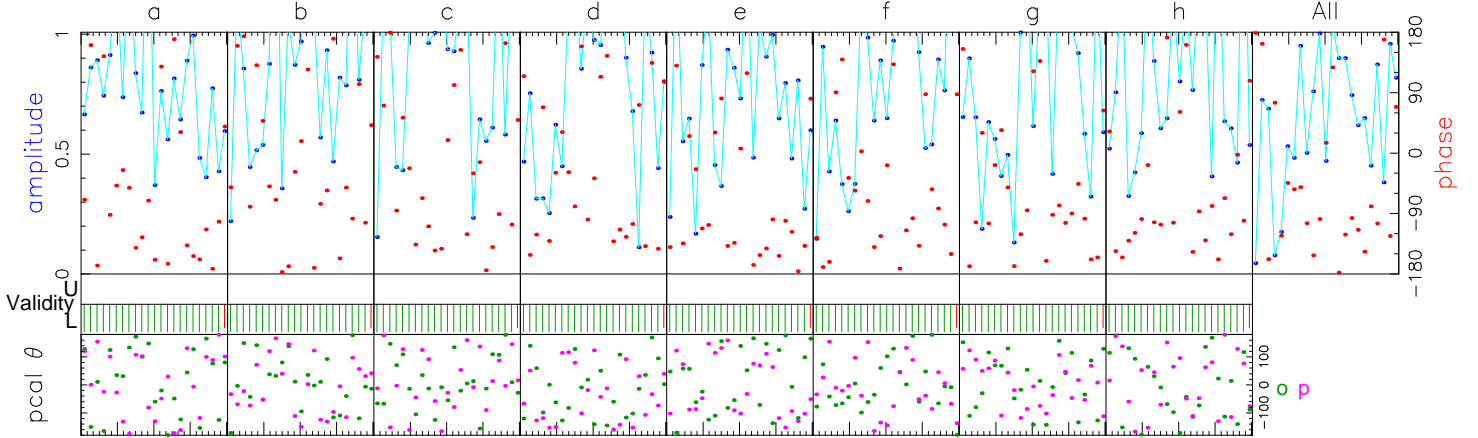
ph/seg (deg) 0.2 0.0 Theor. Amplitude 421.058 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.2 0.0 Search (1024X32) 418.489 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.2 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 58.0 0.0 Inc. seg. avg. 418.694 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 o: az 122.6 el 27.4 pa -42.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/oo.W.136.zpwvdj



Fringe quality 9
SNR 10.1
Int time 239.988
Amp 0.336
Phase -304.4
PFD 8.1e-16
Delays (us)
SBD 0.015847
MBD -0.014648
Fringe rate (Hz)
-0.017950
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024539
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

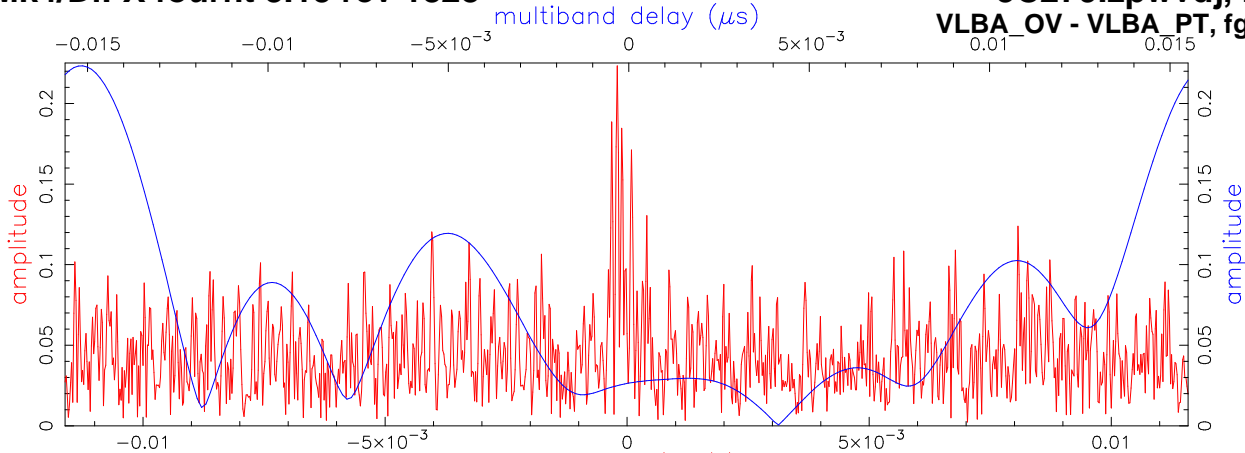


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

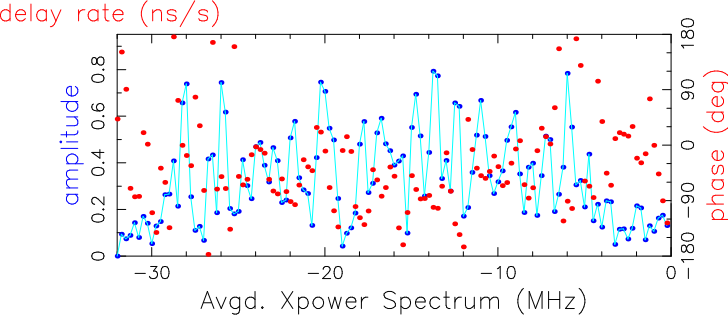
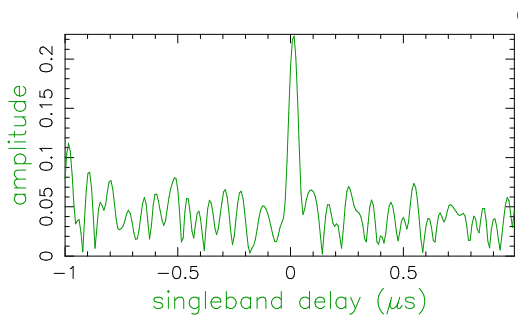


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|----------|--------------------|------------------|-----------------|--|------------------------------|------------------|----------|--------------|-------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| p | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | | |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| p | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |
| p | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | | |
| Group delay (usec)(sbd) | | -2.63348689923E+03 | | | -2.63350350114E+03 | | | | -1.46481E-02 | +/- 2.2E-04 |
| Sband delay (usec) | | -2.63348765464E+03 | | | -1.9710791E-01 | | | | 1.58465E-02 | +/- 1.7E-03 |
| Phase delay (usec) | | -2.63350350516E+03 | | | -6.6908013E-09 | | | | -4.01245E-06 | +/- 3.7E-07 |
| Delay rate (us/s) | | 1.30333045039E-01 | | | 1.30333253425E-01 | | | | -2.08386E-07 | +/- 2.6E-09 |
| Total phase (deg) | | | -516.3 | | 1.35238353086E-05 | | | | -304.4 | +/- 11.4 |
| | RMS | Theor. | Amplitude | 0.336 +/- 0.033 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | | | |
| ph/seg (deg) | 72.5 | 27.3 | Search (1024X32) | 0.331 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 | 1.000 | | |
| amp/seg (%) | 123.4 | 47.6 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.016 | 0.016 | |
| ph/frq (deg) | 12.7 | 16.1 | Inc. seg. avg. | 0.576 | Sample rate(MSamp/s): 64 | | dr window (ns/s) | -0.012 | 0.012 | |
| amp/frq (%) | 22.2 | 28.1 | Inc. frq. avg. | 0.329 | Data rate(Mb/s): 1024 | nlags: 128 t_cohere infinite | ion window (TEC) | 0.00 | 0.00 | |

o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.101.zpwvdj

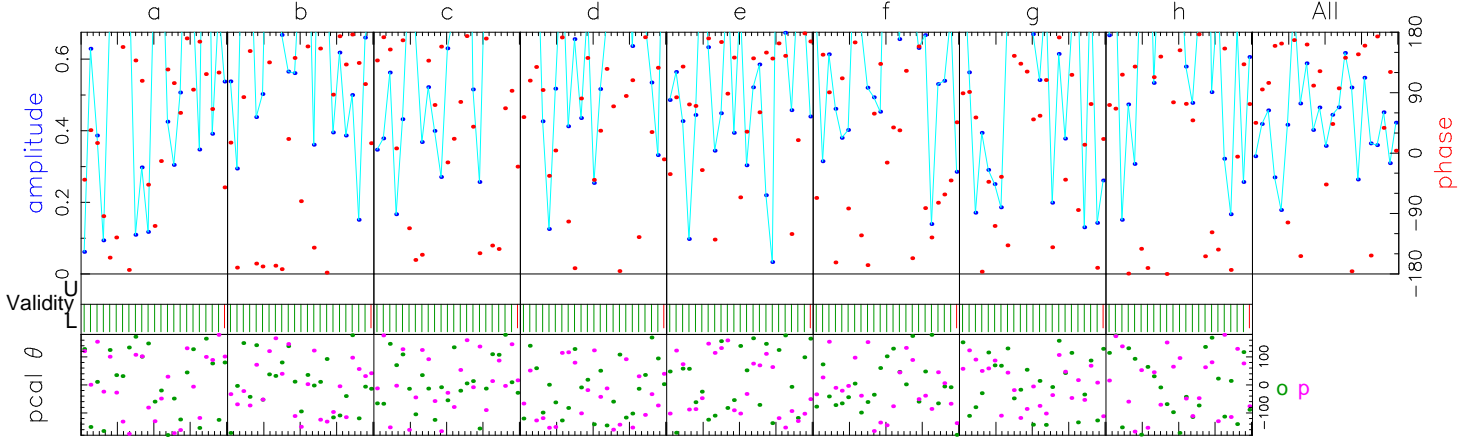


Fringe quality 0
SNR 6.7
Int time 239.988
Amp 0.225
Phase -41.3
PFD 1.1e-03
Delays (us)
SBD 0.012775
MBD -0.015136
Fringe rate (Hz)
-0.018478
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

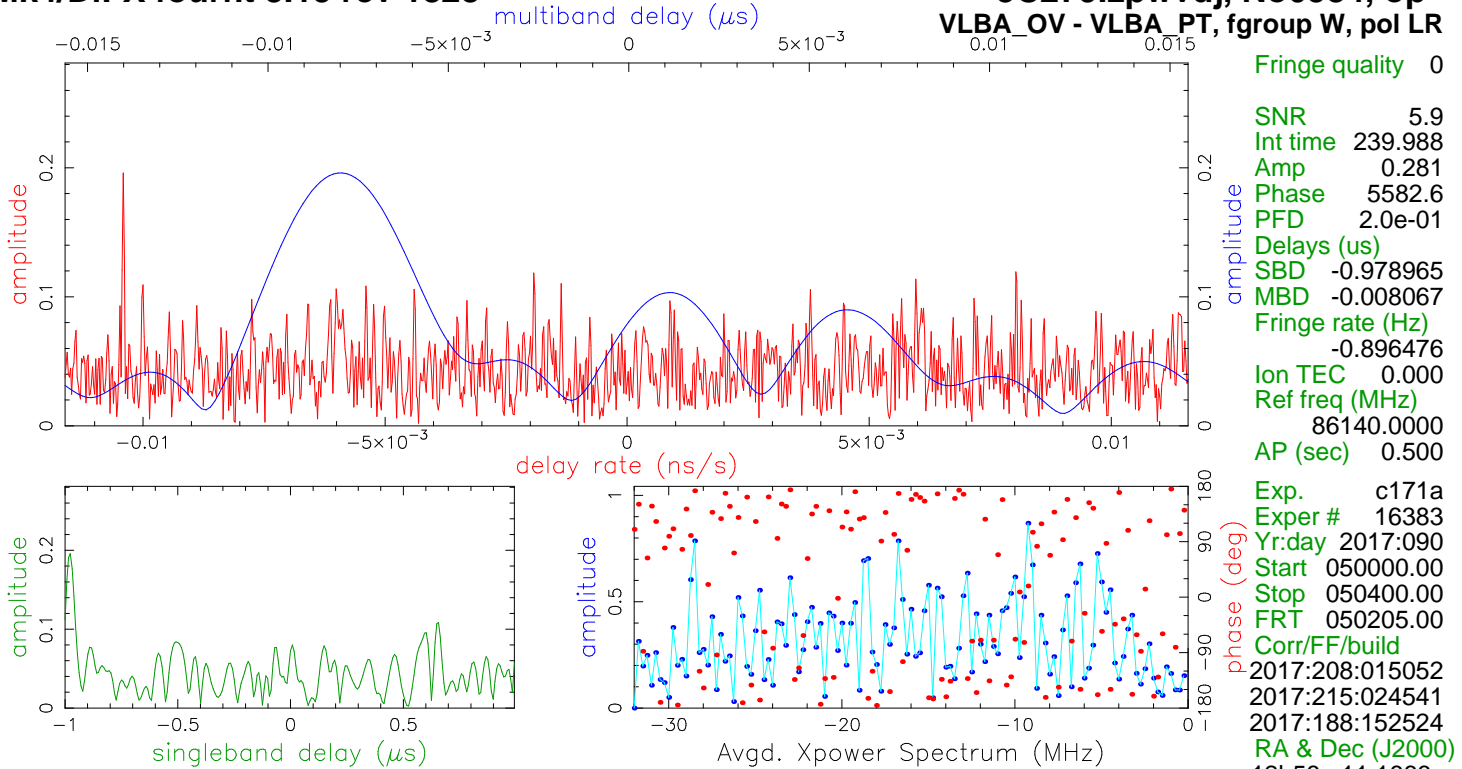


Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024540
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

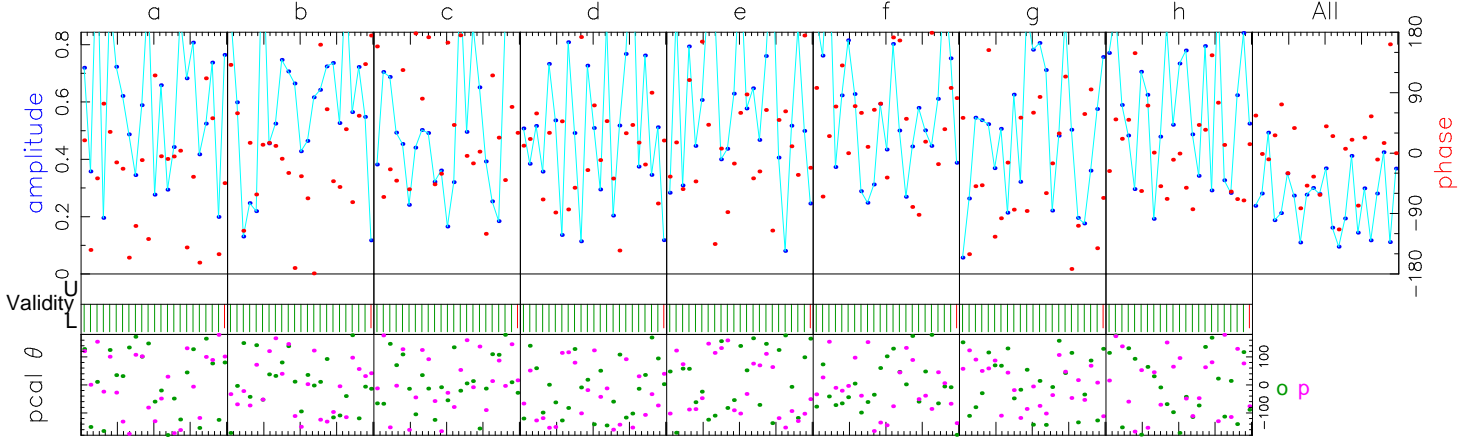


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|------------------------------|--------------------------|------------------------------|--|--------------------------------|-----------------------|---------------------------|--------------|-------------|
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | APs used | 138.7 |
| p | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Ampl. | 0.2 |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Sbd box | 130.6 |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC freqs | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC phase | |
| p | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ManI PC | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | PC amp | |
| p | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| | | | | | | | | | Tracks | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.63348738704E+03 | | Apriori delay (usec) | | -2.63350350114E+03 | | Resid mbdelay (usec) | | -1.51359E-02 | +/- 3.2E-04 |
| Sband delay (usec) | -2.63349072664E+03 | | Apriori clock (usec) | | -1.9710791E-01 | | Resid sbdelay (usec) | | 1.27745E-02 | +/- 2.6E-03 |
| Phase delay (usec) | -2.63350349667E+03 | | Apriori clockrate (us/s) | | -6.6908013E-09 | | Resid phdelay (usec) | | 4.47161E-06 | +/- 5.5E-07 |
| Delay rate (us/s) | 1.30333038911E-01 | | Apriori rate (us/s) | | 1.30333253425E-01 | | Resid rate (us/s) | | -2.14514E-07 | +/- 4.0E-09 |
| Total phase (deg) | | | Apriori accel (us/s/s) | | 1.35238353086E-05 | | Resid phase (deg) | | -41.3 | +/- 17.0 |
| | RMS | Theor. | Amplitude | 0.225 +/- 0.033 | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | |
| ph/seg (deg) | 69.6 | 40.7 | Search (1024X32) | 0.208 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | | -1.000 | 1.000 |
| amp/seg (%) | 106.7 | 71.1 | Interp. | 0.000 | Bits/sample: 2x2 | | SampCntNorm: enabled | | -0.016 | 0.016 |
| ph/frq (deg) | 36.7 | 24.0 | Inc. seg. avg. | 0.343 | Sample rate(MSamp/s): 64 | | dr window (ns/s) | | -0.012 | 0.012 |
| amp/frq (%) | 46.6 | 41.9 | Inc. frq. avg. | 0.217 | Data rate(Mb/s): 1024 | | ion window (TEC) | | 0.00 | 0.00 |
| | | o: az 122.6 el 27.4 pa -42.2 | | p: az 130.1 el 35.7 pa -39.2 | | u,v (fr/asec) -740.533 254.966 | | simultaneous interpolator | | |



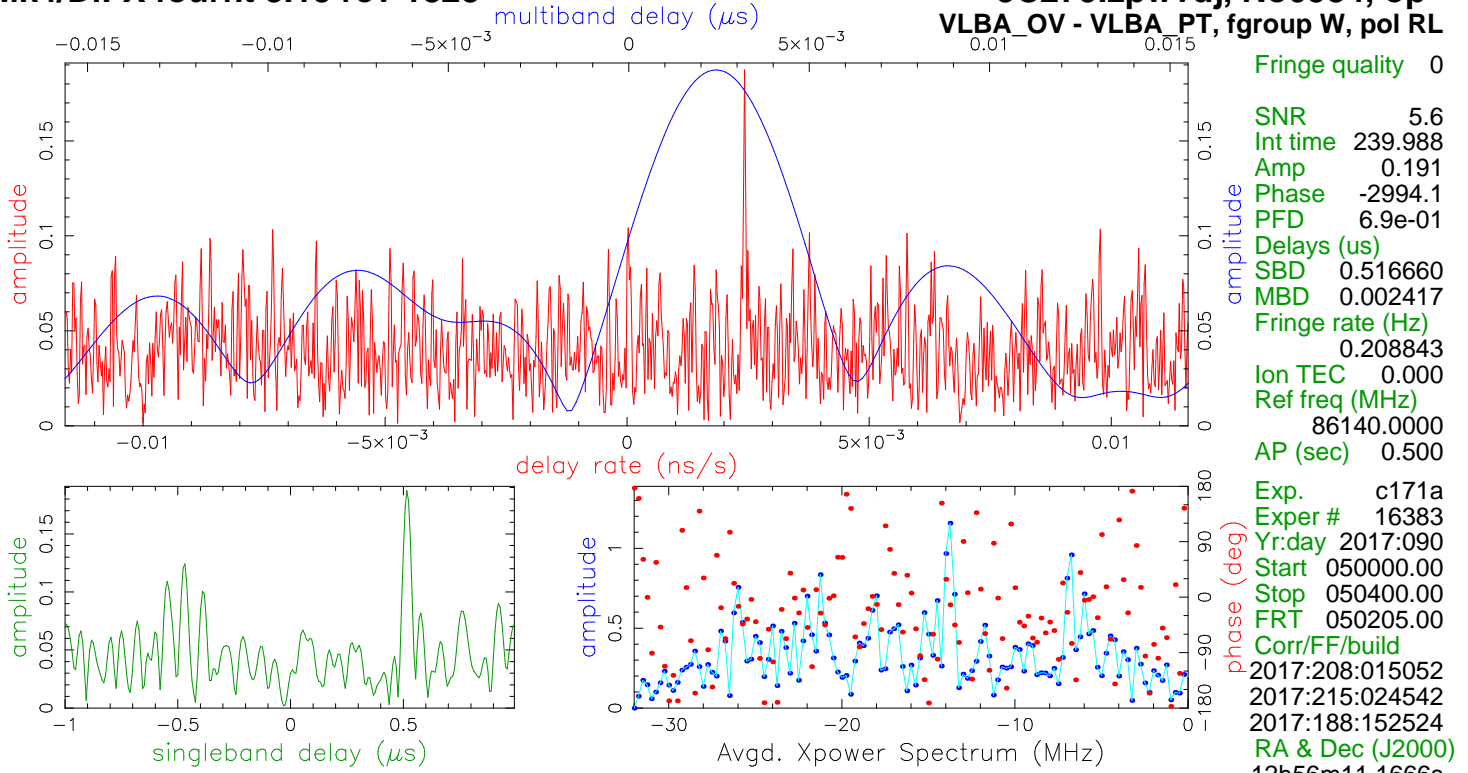
Fringe quality 0
 SNR 5.9
 Int time 239.988
 Amp 0.281
 Phase 5582.6
 PFD 2.0e-01
 Delays (us)
 SBD -0.978965
 MBD -0.008067
 Fringe rate (Hz)
 -0.896476
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 050000.00
 Stop 050400.00
 FRT 050205.00
 Corr/FF/build
 2017:208:015052
 2017:215:024541
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

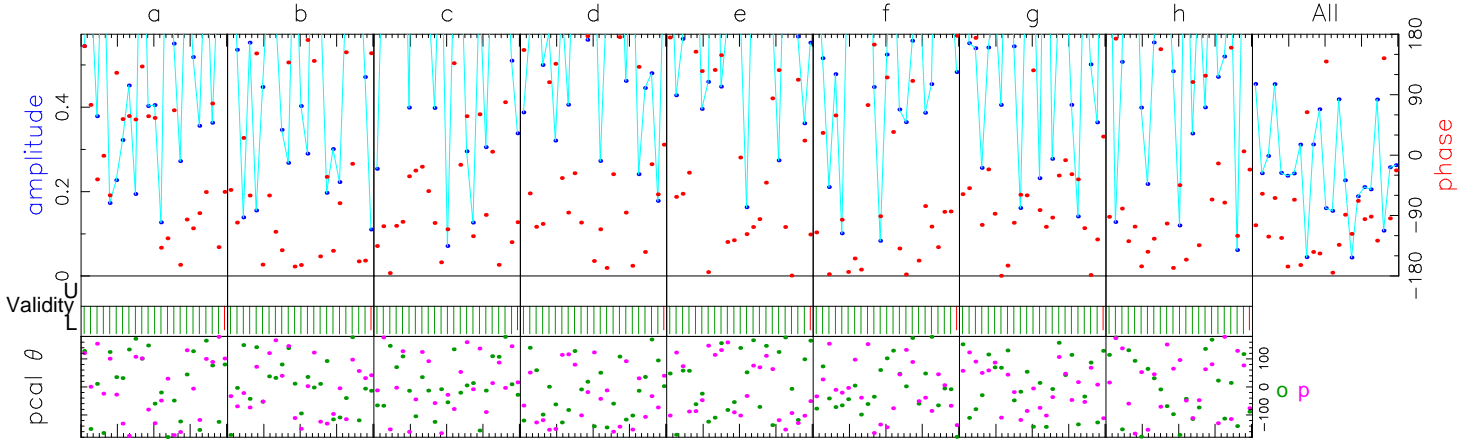


| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| | -22.2 | 16.1 | 3.4 | 3.4 | 5.6 | 50.0 | -65.8 | -6.8 | Phase | 2.6 |
| | 0.4 | 0.3 | 0.2 | 0.4 | 0.3 | 0.1 | 0.3 | 0.5 | Ampl. | 0.3 |
| | 2.7 | 96.9 | 8.9 | 95.8 | 188.5 | 219.1 | 203.9 | 3.0 | Sbd box | 3.7 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| p | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| p | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| p | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.63448031858E+03 | | Apriori delay (usec) | | -2.63350350114E+03 | | Resid mbdelay (usec) | | -8.06743E-03 | +/- 3.7E-04 |
| Sband delay (usec) | -2.63448246564E+03 | | Apriori clock (usec) | | -1.9710791E-01 | | Resid sbdelay (usec) | | -9.78965E-01 | +/- 2.9E-03 |
| Phase delay (usec) | -2.63350350106E+03 | | Apriori clockrate (us/s) | | -6.6908013E-09 | | Resid phdelay (usec) | | 8.34232E-08 | +/- 6.3E-07 |
| Delay rate (us/s) | 1.30322846226E-01 | | Apriori rate (us/s) | | 1.30333253425E-01 | | Resid rate (us/s) | | -1.04072E-05 | +/- 4.5E-09 |
| Total phase (deg) | 5370.7 | | Apriori accel (us/s/s) | | 1.35238353086E-05 | | Resid phase (deg) | | 5582.6 | +/- 19.4 |

ph/seg (deg) 58.1 46.5 Search (1024X32) 0.193 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.3 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.1 27.5 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 38.5 47.9 Inc. frq. avg. 0.276 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.103.zpwvdj



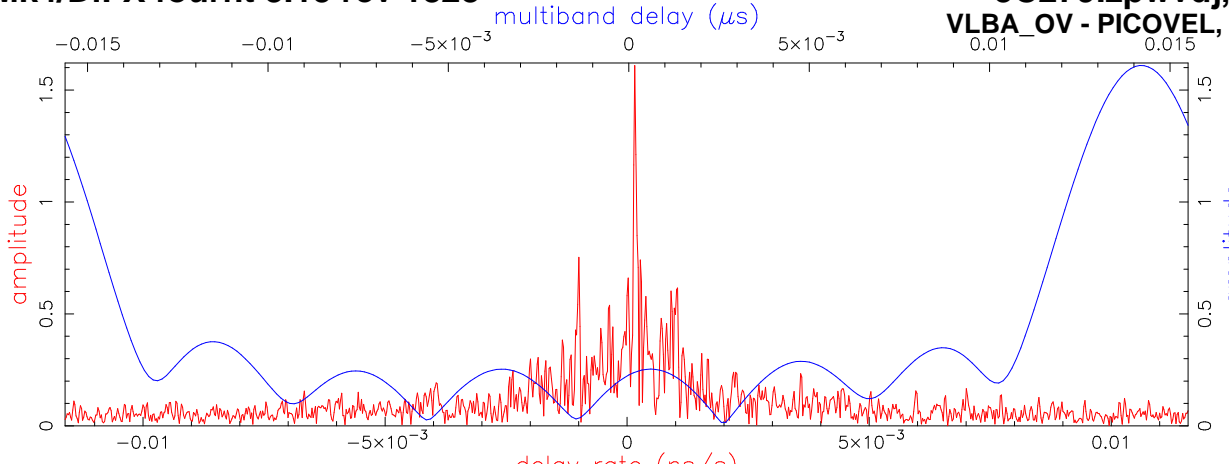
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|--------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| | -49.5 | -134.7 | -82.3 | -107.1 | -135.3 | -161.2 | -81.9 | -116.7 | | -114.1 |
| | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | Ampl. | 0.2 |
| | 69.1 | 197.2 | 69.9 | 157.2 | 193.1 | 155.9 | 194.1 | 194.9 | Sbd box | 195.1 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| p | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:p | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| p | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| p | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | -2.63300108411E+03 | | Apriori delay (usec) | | -2.63350350114E+03 | | Resid mbdelay (usec) | | 2.41703E-03 | +/- 3.9E-04 |
| Sband delay (usec) | -2.63298684114E+03 | | Apriori clock (usec) | | -1.9710791E-01 | | Resid sbdelay (usec) | | 5.16660E-01 | +/- 3.1E-03 |
| Phase delay (usec) | -2.63350350482E+03 | | Apriori clockrate (us/s) | | -6.6908013E-09 | | Resid phdelay (usec) | | -3.67852E-06 | +/- 6.6E-07 |
| Delay rate (us/s) | 1.30335677889E-01 | | Apriori rate (us/s) | | 1.30333253425E-01 | | Resid rate (us/s) | | 2.42446E-06 | +/- 4.7E-09 |
| Total phase (deg) | | | Apriori accel (us/s/s) | | 1.35238353086E-05 | | Resid phase (deg) | | -2994.1 | +/- 20.4 |

| | RMS | Theor. | Amplitude | 0.191 +/- 0.034 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | sb window (us) | -1.000 | 1.000 |
|--------------|------|--------|------------------|-----------------|--|------------------------------|------------------|--------|-------|
| ph/seg (deg) | 60.7 | 48.9 | Search (1024X32) | 0.184 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | mb window (us) | -0.016 | 0.016 |
| amp/seg (%) | 71.0 | 85.3 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | dr window (ns/s) | -0.012 | 0.012 |
| ph/frq (deg) | 39.5 | 28.8 | Inc. seg. avg. | 0.191 | Sample rate(MSamp/s): 64 | | ion window (TEC) | 0.00 | 0.00 |
| amp/frq (%) | 43.9 | 50.3 | Inc. frq. avg. | 0.191 | Data rate(Mb/s): 1024 | nlags: 128 t_cohere infinite | | | |

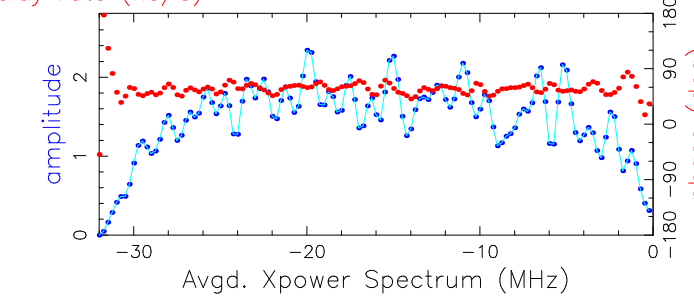
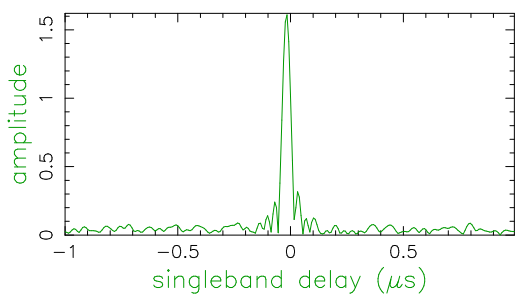
o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.104.zpwvdj



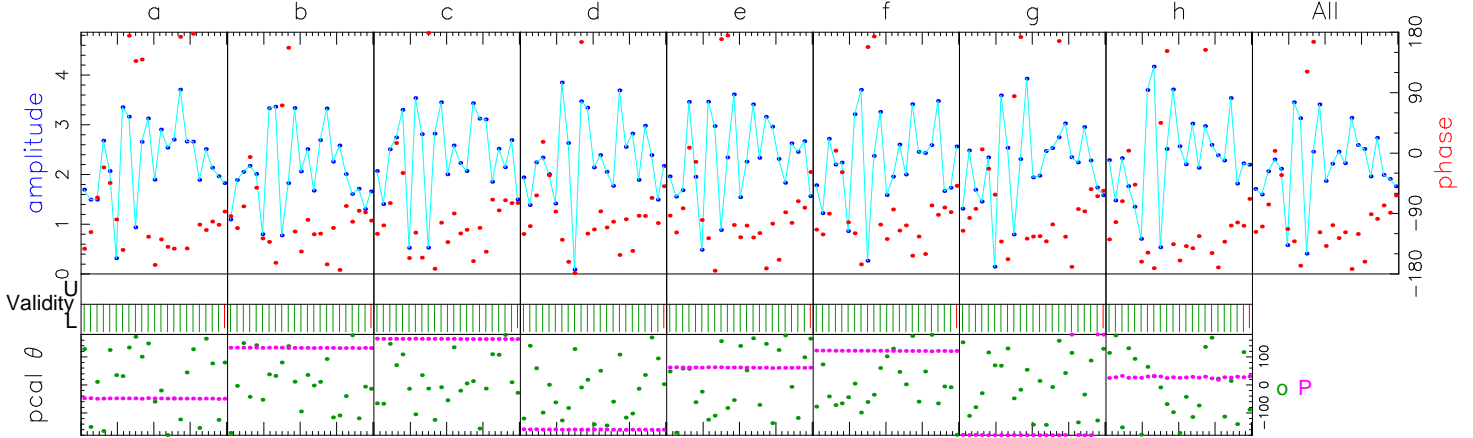
Fringe quality 4

SNR 48.5
Int time 239.678
Amp 1.621
Phase 62.2
PFD 0.0e+00
Delays (us)
SBD -0.017909
MBD 0.014202
Fringe rate (Hz) 0.012910
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050000.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024543
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|------------|--------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -136.6 | -118.6 | -107.0 | -109.3 | -111.9 | -109.2 | -114.3 | -136.4 | Phase | -117.8 |
| 1.6 | 1.5 | 1.8 | 1.7 | 1.7 | 1.7 | 1.5 | 1.7 | Ampl. | 1.6 |
| 126.7 | 126.7 | 126.7 | 126.7 | 127.0 | 126.6 | 126.2 | 127.0 | Sbd box | 126.7 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| P | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | |
| P o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| P | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | Chan ids | |
| P | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |

Group delay (usec)(sbd) 4.51854947364E+03 Apriori delay (usec) 4.51856652159E+03 Resid mbdelay (usec) 1.42020E-02 +/- 4.5E-05

Sband delay (usec) 4.51854861309E+03 Apriori clock (usec) 1.7603902E+00 Resid sbdelay (usec) -1.79085E-02 +/- 3.6E-04

Phase delay (usec) 4.51856651779E+03 Apriori clockrate (us/s) -2.6215607E-07 Resid phdelay (usec) -3.79773E-06 +/- 7.6E-08

Delay rate (us/s) 2.05039308445E+00 Apriori rate (us/s) 2.05039293458E+00 Resid rate (us/s) 1.49874E-07 +/- 5.5E-10

Total phase (deg) 123.4 Apriori accel (us/s/s) -2.40409441931E-05 Resid phase (deg) 62.2 +/- 2.4

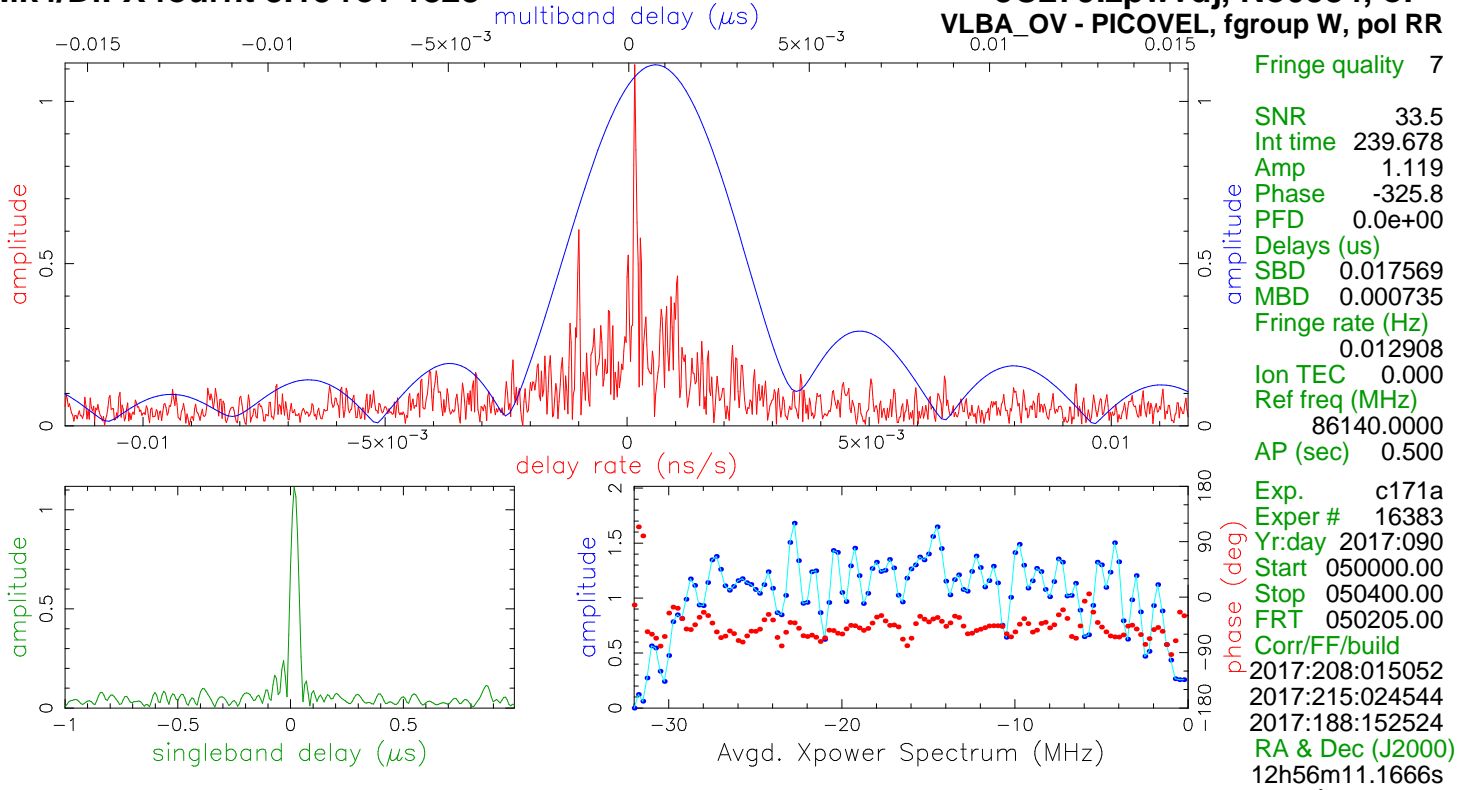
ph/seg (deg) 50.6 5.7 Theor. Amplitude 1.621 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 57.9 9.9 Search (1024X32) 1.498 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 13.0 3.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 5.5 5.8 Inc. seg. avg. 2.194 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 simultaneous interpolator



Fringe quality 7

SNR 33.5

Int time 239.678

Amp 1.119

Phase -325.8

PFD 0.0e+00

Delays (us)

SBD 0.017569

MBD 0.000735

Fringe rate (Hz) 0.012908

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

2017:208:015052

2017:215:024544

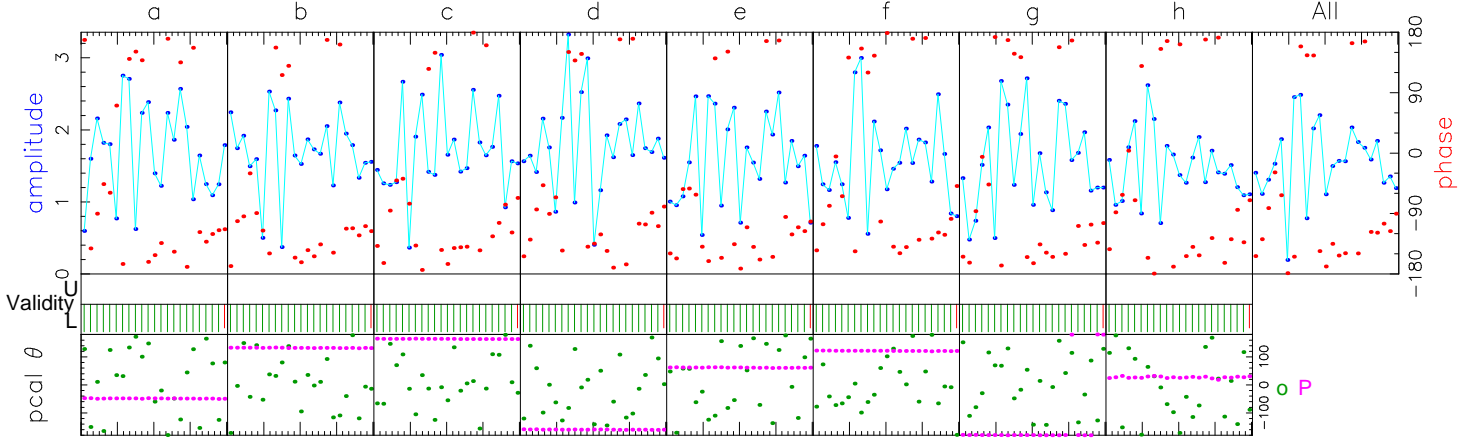
2017:188:152524

RA & Dec (J2000)

12h56m11.1666s

-5° 47' 21.525"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|-------------------------|-------------------|--------------------------|------------------------|----------------------|-------------------|----------|----------|------------|--------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -157.6 | -145.6 | -137.5 | -139.5 | -143.3 | -143.8 | -154.3 | -147.1 | Phase | -145.8 |
| 1.1 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | Ampl. | 1.1 |
| 131.2 | 131.1 | 131.8 | 131.0 | 131.1 | 131.1 | 131.1 | 131.6 | Sbd box | 131.2 |
| U/L 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| P -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:P 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:P 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| P 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Chan ids | |
| P W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 4.51859850620E+03 | Apriori delay (usec) | 4.51856652159E+03 | Resid mbdelay (usec) | 7.34612E-04 | +/- | 6.5E-05 | | |
| Sband delay (usec) | 4.51858409109E+03 | Apriori clock (usec) | 1.7603902E+00 | Resid sbdelay (usec) | 1.75695E-02 | +/- | 5.1E-04 | | |
| Phase delay (usec) | 4.51856651689E+03 | Apriori clockrate (us/s) | -2.6215607E-07 | Resid phdelay (usec) | -4.70283E-06 | +/- | 1.1E-07 | | |
| Delay rate (us/s) | 2.05039308443E+00 | Apriori rate (us/s) | 2.05039293458E+00 | Resid rate (us/s) | 1.49853E-07 | +/- | 8.0E-10 | | |
| Total phase (deg) | | -264.6 | Apriori accel (us/s/s) | -2.40409441931E-05 | Resid phase (deg) | | -325.8 | +/- | 3.4 |

ph/seg (deg) 47.3 8.2 Theor. Amplitude 1.119 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

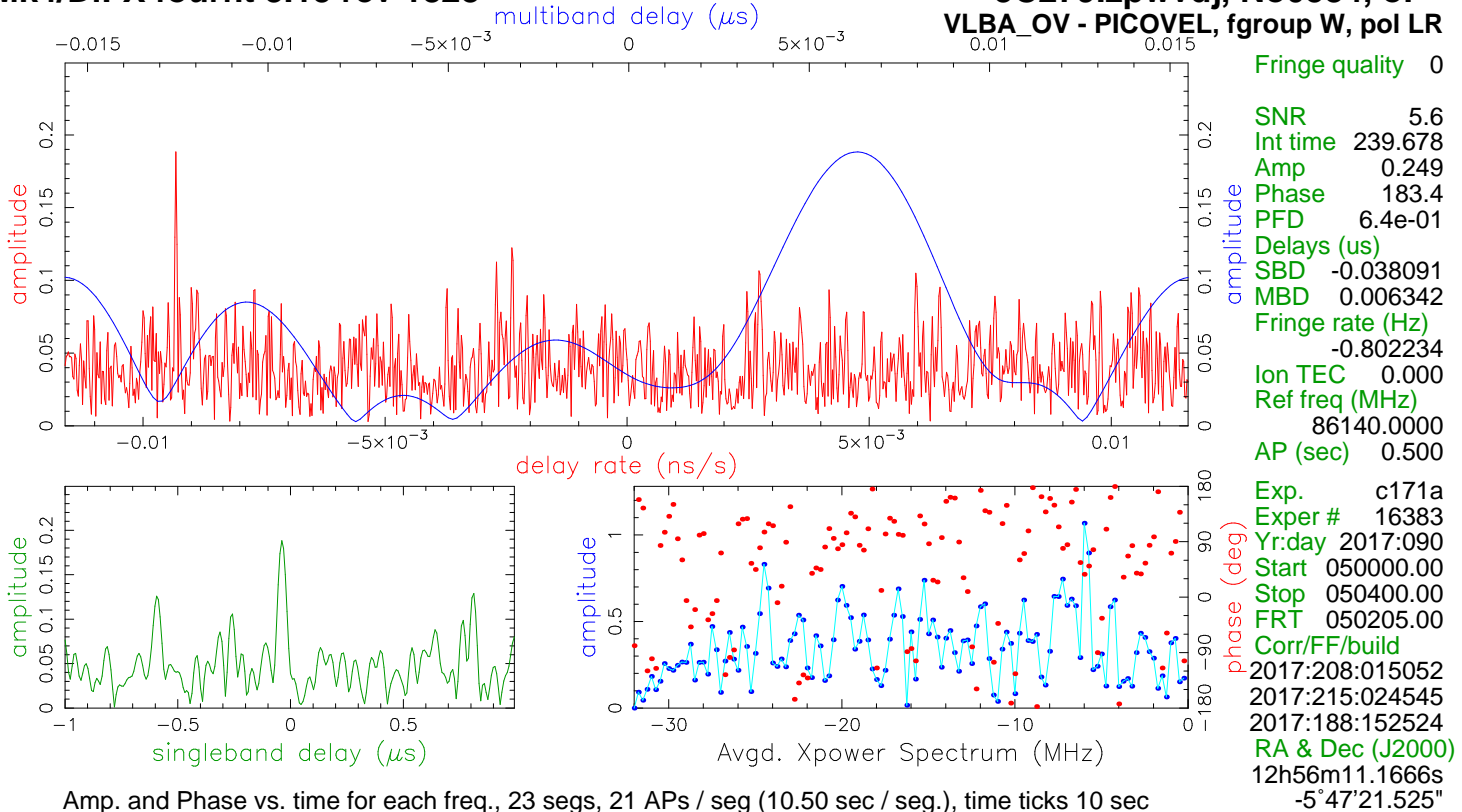
amp/seg (%) 60.9 14.3 Search (1024X32) 1.053 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 7.4 4.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

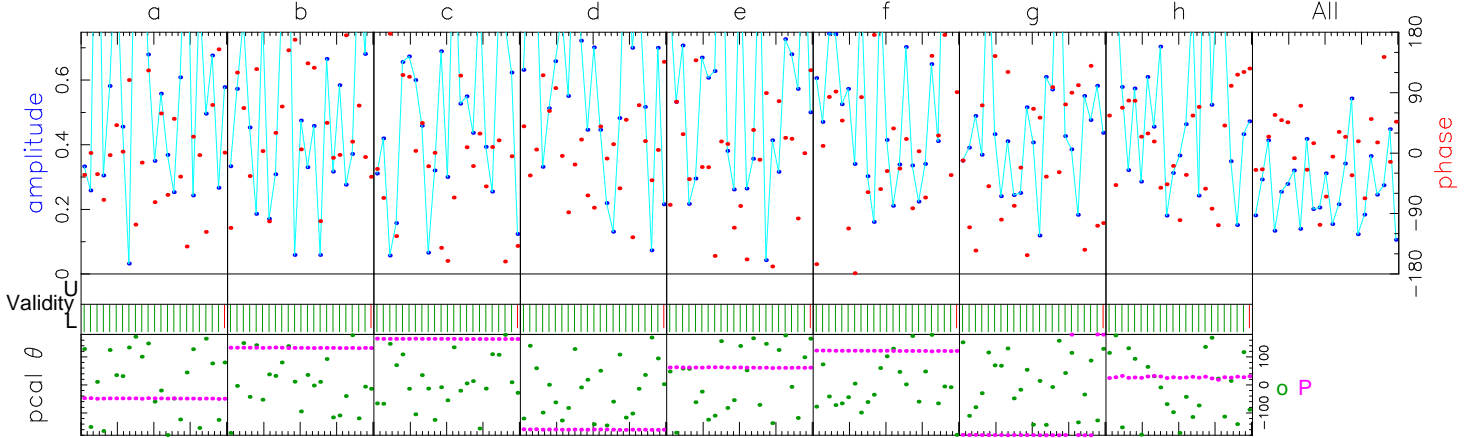
amp/frq (%) 7.5 8.4 Inc. seg. avg. 1.551 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.106.zpwvdj simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|-------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| | -21.1 | 45.6 | -2.6 | 6.5 | -8.1 | 33.3 | -60.8 | 6.6 | Phase | 3.4 |
| | 0.4 | 0.3 | 0.1 | 0.5 | 0.4 | 0.1 | 0.1 | 0.3 | Ampl. | 0.2 |
| | 124.6 | 206.6 | 160.1 | 124.9 | 203.2 | 23.0 | 227.4 | 115.5 | Sbd box | 124.1 |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| P | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| P | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| P | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | Tracks | |
| | | | | | | | | | Chan ids | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 4.51854161349E+03 | | Apriori delay (usec) | | 4.51856652159E+03 | | Resid mbdelay (usec) | | 6.34190E-03 | +/- 3.8E-04 |
| Sband delay (usec) | 4.51852843009E+03 | | Apriori clock (usec) | | 1.7603902E+00 | | Resid sbdelay (usec) | | -3.80915E-02 | +/- 3.1E-03 |
| Phase delay (usec) | 4.51856652170E+03 | | Apriori clockrate (us/s) | | -2.6215607E-07 | | Resid phdelay (usec) | | 1.09793E-07 | +/- 6.5E-07 |
| Delay rate (us/s) | 2.05038362144E+00 | | Apriori rate (us/s) | | 2.05039293458E+00 | | Resid rate (us/s) | | -9.31314E-06 | +/- 4.7E-09 |
| Total phase (deg) | 244.6 | | Apriori accel (us/s/s) | | -2.40409441931E-05 | | Resid phase (deg) | | 183.4 | +/- 20.3 |

ph/seg (deg) 52.3 85.0 Interp. 0.000 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

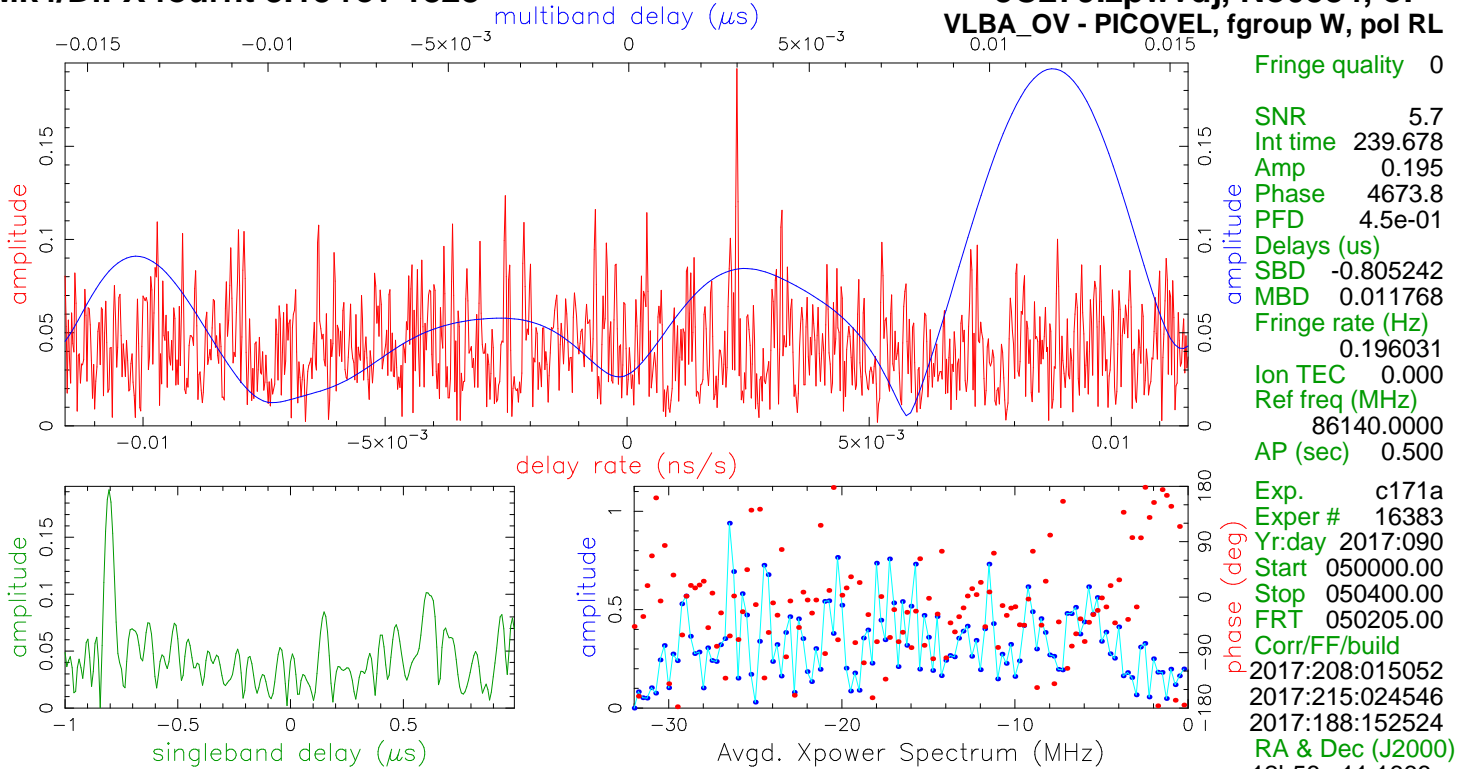
amp/seg (%) 73.3 85.0 Inc. seg. avg. 0.261 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 35.6 28.7 Inc. frq. avg. 0.241 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

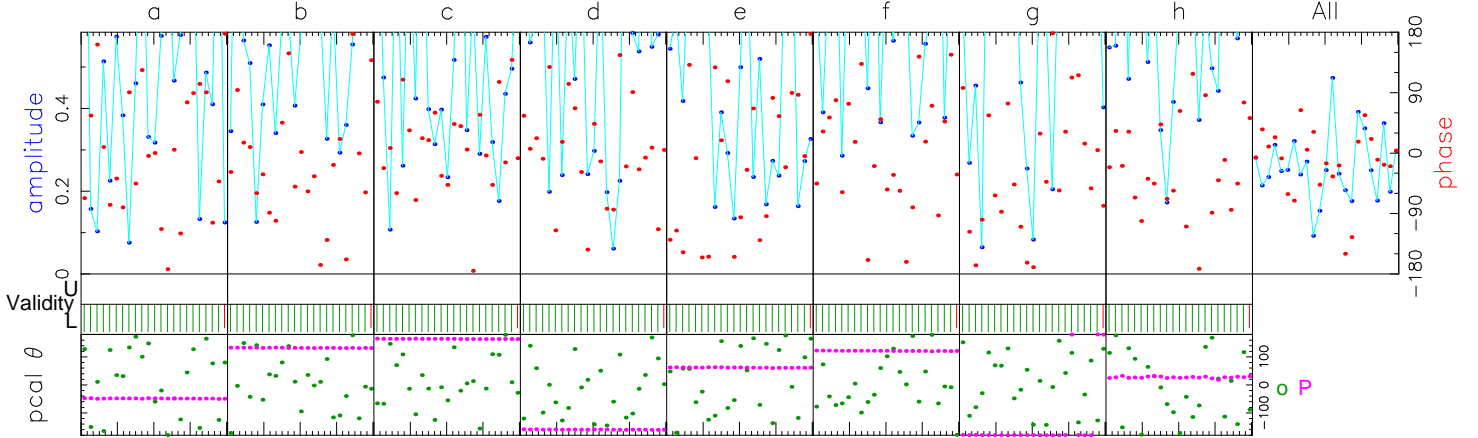
amp/frq (%) 49.0 50.1 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.107.zpwwdj simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

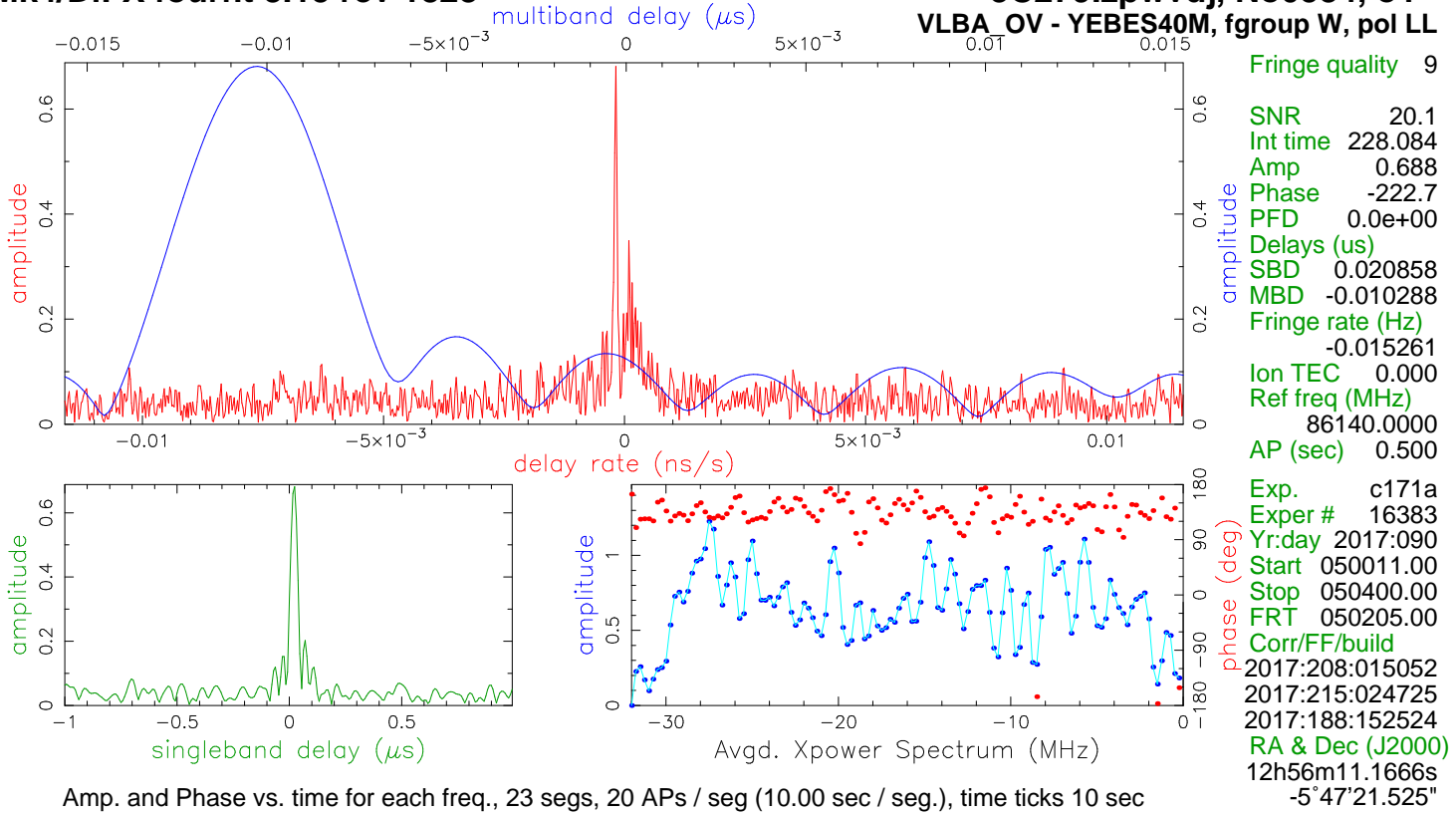


| | | | | | | | | | | | |
|-------------------------|----------|-------------------|----------|--------------------------|----------|--------------------|----------|----------------------|------|--------------------------|--|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | | |
| -38.3 | -25.3 | 17.5 | 2.6 | -120.1 | 2.2 | 5.9 | -23.8 | Phase | -6.2 | | |
| 0.1 | 0.2 | 0.3 | 0.4 | 0.0 | 0.2 | 0.2 | 0.3 | Ampl. | 0.2 | | |
| 85.1 | 250.7 | 254.4 | 25.6 | 147.8 | 206.2 | 219.0 | 25.7 | Sbd box | 25.9 | | |
| U/L | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | 0/480 | APs used | | | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | | |
| P | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | | | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | | | |
| o:P | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | | | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | | | |
| P | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | Chan ids | | | |
| P | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | Tracks | | | |
| | | | | | | | | Chan ids | | | |
| | | | | | | | | Tracks | | | |
| Group delay (usec)(sbd) | | 4.51776578982E+03 | | Apriori delay (usec) | | 4.51856652159E+03 | | Resid mbdelay (usec) | | 1.17682E-02 +/- 3.8E-04 | |
| Sband delay (usec) | | 4.51776128009E+03 | | Apriori clock (usec) | | 1.7603902E+00 | | Resid sbdelay (usec) | | -8.05242E-01 +/- 3.0E-03 | |
| Phase delay (usec) | | 4.51856652139E+03 | | Apriori clockrate (us/s) | | -2.6215607E-07 | | Resid phdelay (usec) | | -1.99591E-07 +/- 6.4E-07 | |
| Delay rate (us/s) | | 2.05039521031E+00 | | Apriori rate (us/s) | | 2.05039293458E+00 | | Resid rate (us/s) | | 2.27573E-06 +/- 4.6E-09 | |
| Total phase (deg) | | 4735.0 | | Apriori accel (us/s/s) | | -2.40409441931E-05 | | Resid phase (deg) | | 4673.8 +/- 20.0 | |

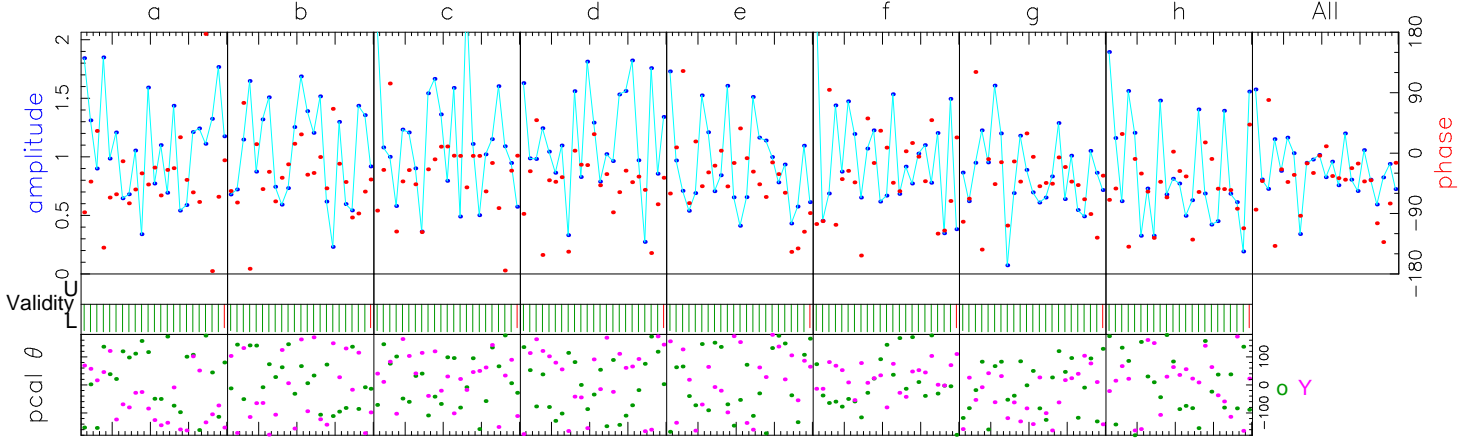
| | | | | | | | | | | | | |
|--------------|------|-------------------|-------|----------------|-----------------|------------------------|-----------------------------|-------------------|---------|------------------|--------|-------|
| ph/seg (deg) | 51.1 | Theor. | 47.9 | Amplitude | 0.195 +/- 0.034 | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 | sb window (us) | -1.000 | 1.000 |
| amp/seg (%) | 55.9 | Search (1024X32) | 0.177 | Interp. | 0.000 | Pcal rate: | 0.000E+00, 0.000E+00 (us/s) | mb window (us) | -0.016 | 0.016 | | |
| ph/frq (deg) | 50.9 | Inc. seg. avg. | 0.196 | Inc. frq. avg. | 0.188 | Bits/sample: | 2x2 | SampCntNorm: | enabled | dr window (ns/s) | -0.012 | 0.012 |
| amp/frq (%) | 51.9 | | | | | Sample rate (MSamp/s): | 64 | Data rate (Mb/s): | 1024 | ion window (TEC) | 0.00 | 0.00 |
| nlags: 128 | | t_cohere infinite | | | | | | | | | | |

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.108.zpwwdj



Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



| | | | | | | | | | |
|-------------------------|-------------------|----------|--------------------------|--------------------|----------|----------------------|--------------|------------|---------|
| 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
| -59.5 | -31.5 | -33.4 | -43.5 | -40.9 | -42.7 | -43.9 | -47.1 | Phase | -42.7 |
| 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | Ampl. | 0.7 |
| 132.0 | 132.1 | 132.0 | 131.5 | 131.5 | 131.9 | 131.2 | 131.1 | Sbd box | 131.7 |
| U/L 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | APs used | |
| o -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| Y -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | PC freqs | |
| o:Y 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| o:Y 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | ManI PC | |
| o 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| o W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| Y W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Tracks | |
| | | | | | | | | Chan ids | |
| | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 5.01490422467E+03 | | Apriori delay (usec) | 5.01488326299E+03 | | Resid mbdelay (usec) | -1.02883E-02 | +/- | 1.1E-04 |
| Sband delay (usec) | 5.01490412099E+03 | | Apriori clock (usec) | -1.5872263E+00 | | Resid sbdelay (usec) | 2.08580E-02 | +/- | 8.6E-04 |
| Phase delay (usec) | 5.01488326161E+03 | | Apriori clockrate (us/s) | -2.0215610E-07 | | Resid phdelay (usec) | -1.37581E-06 | +/- | 1.8E-07 |
| Delay rate (us/s) | 1.99909912388E+00 | | Apriori rate (us/s) | 1.99909930104E+00 | | Resid rate (us/s) | -1.77159E-07 | +/- | 1.4E-09 |
| Total phase (deg) | | -124.0 | Apriori accel (us/s/s) | -2.61549887849E-05 | | Resid phase (deg) | -222.7 | +/- | 5.7 |

ph/seg (deg) 46.2 13.7 Theor. Amplitude 0.688 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

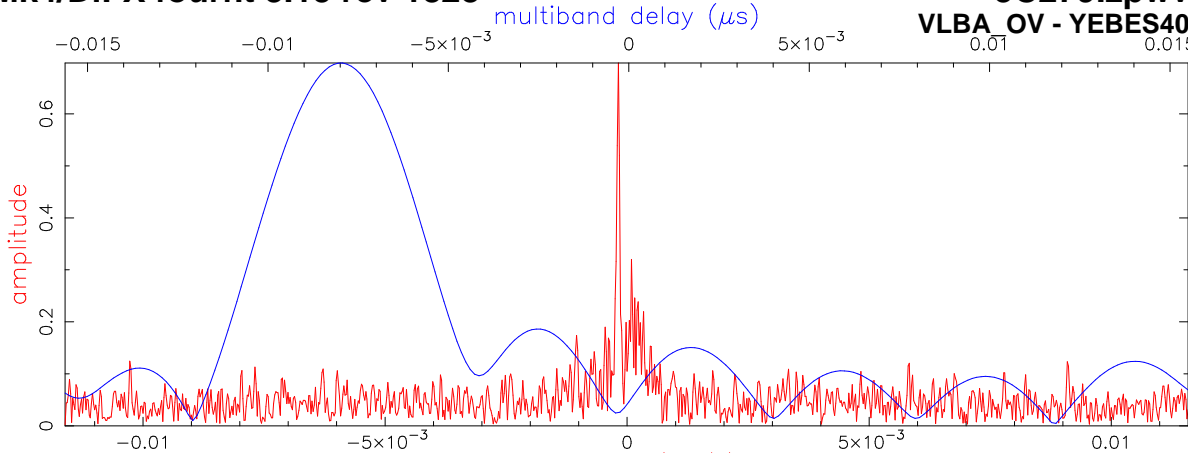
amp/seg (%) 46.8 23.9 Search (1024X32) 0.658 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 9.3 8.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

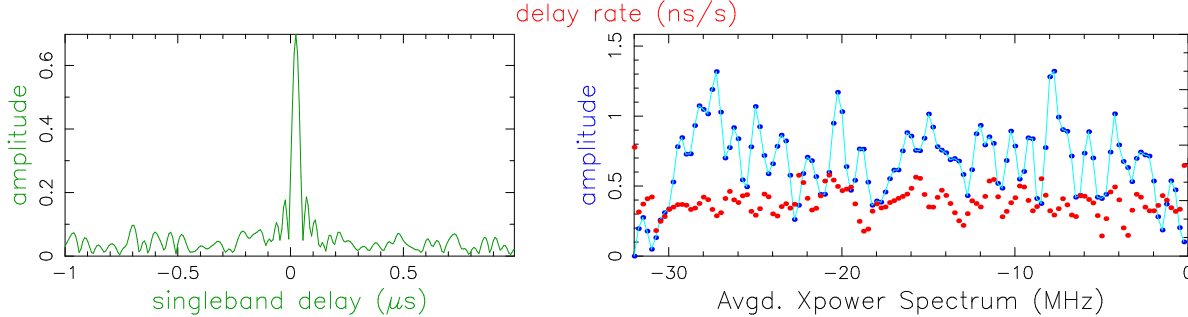
amp/frq (%) 12.9 14.1 Inc. seg. avg. 0.880 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

o: az 122.6 el 27.4 pa -42.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11527.613 -188.138 simultaneous interpolator

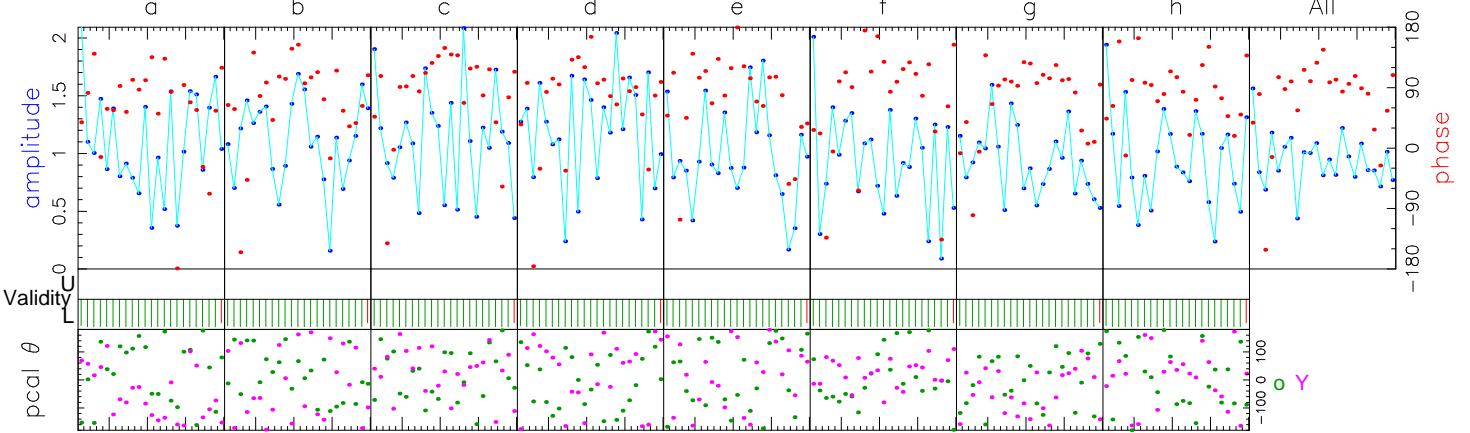
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oY..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oY.W.201.zpwwdj



Fringe quality 9
SNR 20.4
Int time 228.084
Amp 0.698
Phase -94.3
PFD 0.0e+00
Delays (us)
SBD 0.023446
MBD -0.007980
Fringe rate (Hz)
-0.015236
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050011.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024727
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"

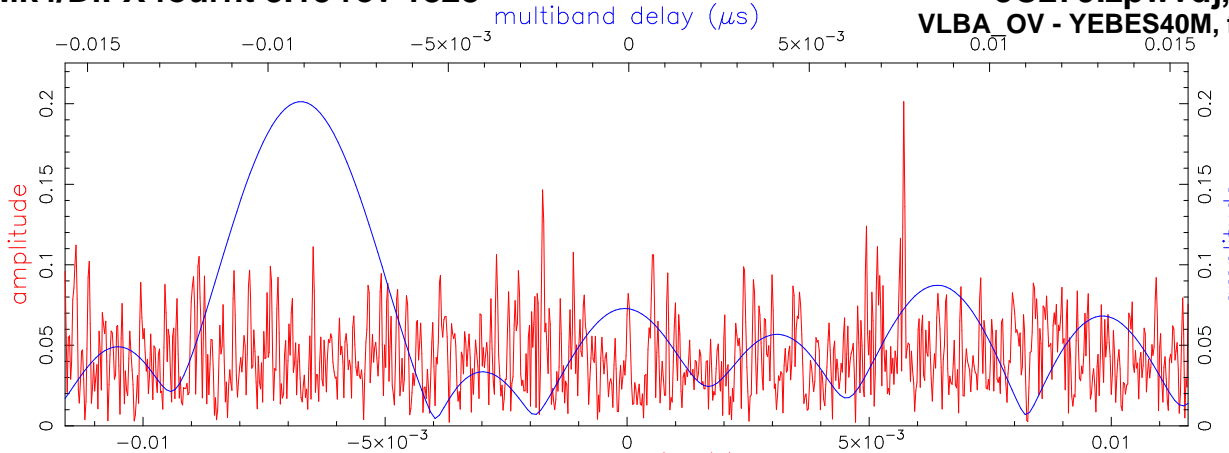


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All | |
|------------------------------|-------------------|-----------------------------|--------------------------|-----------------------------------|---------------------------|------------------------------|--------------------------|------------------|--------------|-------------|------|
| U/L | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 85.7 | 85.7 | |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 0.7 | 0.7 | |
| Y | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | 132.3 | 132.3 | |
| o:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0.6 | 0.6 | |
| o:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0.7 | 0.7 | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 0.7 | 0.7 | |
| Y | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 132.3 | 132.3 | |
| o | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | 0/458 | 0/458 | |
| Y | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | -1000 | -1000 | |
| | | | | | | | | | PC freqs | PC freqs | |
| | | | | | | | | | PC phase | PC phase | |
| | | | | | | | | | ManI PC | ManI PC | |
| | | | | | | | | | PC amp | PC amp | |
| | | | | | | | | | Chan ids | Chan ids | |
| | | | | | | | | | Tracks | Tracks | |
| | | | | | | | | | Tracks | Tracks | |
| Group delay (usec)(sbd) | 5.01490653280E+03 | | Apriori delay (usec) | | 5.01488326299E+03 | | Resid mbdelay (usec) | | -7.98020E-03 | +/- 1.1E-04 | |
| Sband delay (usec) | 5.01490670899E+03 | | Apriori clock (usec) | | -1.5872263E+00 | | Resid sbdelay (usec) | | 2.34460E-02 | +/- 8.5E-04 | |
| Phase delay (usec) | 5.01488326575E+03 | | Apriori clockrate (us/s) | | -2.0215610E-07 | | Resid phdelay (usec) | | 2.76306E-06 | +/- 1.8E-07 | |
| Delay rate (us/s) | 1.99909912417E+00 | | Apriori rate (us/s) | | 1.99909930104E+00 | | Resid rate (us/s) | | -1.76872E-07 | +/- 1.4E-09 | |
| Total phase (deg) | 4.3 | | Apriori accel (us/s/s) | | -2.61549887849E-05 | | Resid phase (deg) | | -94.3 | +/- 5.6 | |
| RMS | Theor. | Amplitude | 0.698 +/- 0.034 | | Pcal mode: MANUAL, MANUAL | | PC period (AP's) 5, 5 | | | | |
| ph/seg (deg) | 48.4 | 13.5 | Search (1024X32) | | 0.686 | | sb window (us) | | -1.000 | 1.000 | |
| amp/seg (%) | 47.2 | 23.5 | Interp. | | 0.000 | | SampCntNorm: enabled | | -0.016 | 0.016 | |
| ph/frq (deg) | 10.1 | 8.0 | Inc. seg. avg. | | 0.919 | | Sample rate(MSamp/s): 64 | | -0.012 | 0.012 | |
| amp/frq (%) | 11.4 | 13.9 | Inc. frq. avg. | | 0.700 | | Data rate(Mb/s): 1024 | | 0.00 | 0.00 | |
| o: az 122.6 el 27.4 pa -42.2 | | Y: az 249.7 el 13.7 pa 45.9 | | u,v (fr/asec) -11527.613 -188.138 | | nlags: 128 t_cohere infinite | | ion window (TEC) | | 0.00 | 0.00 |
| simultaneous interpolator | | | | | | | | | | | |

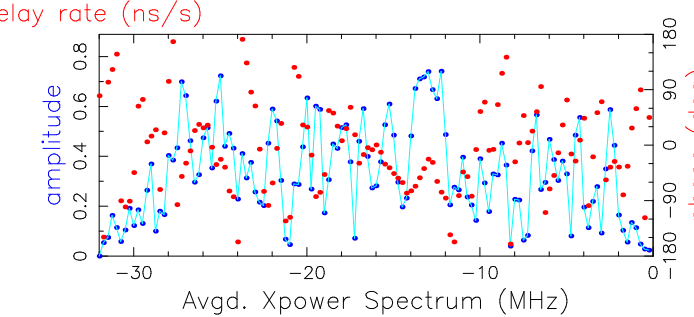
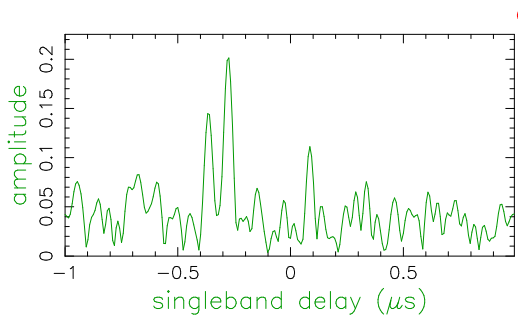
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oY...zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/oY.W.203.zpwvdj



Fringe quality 0

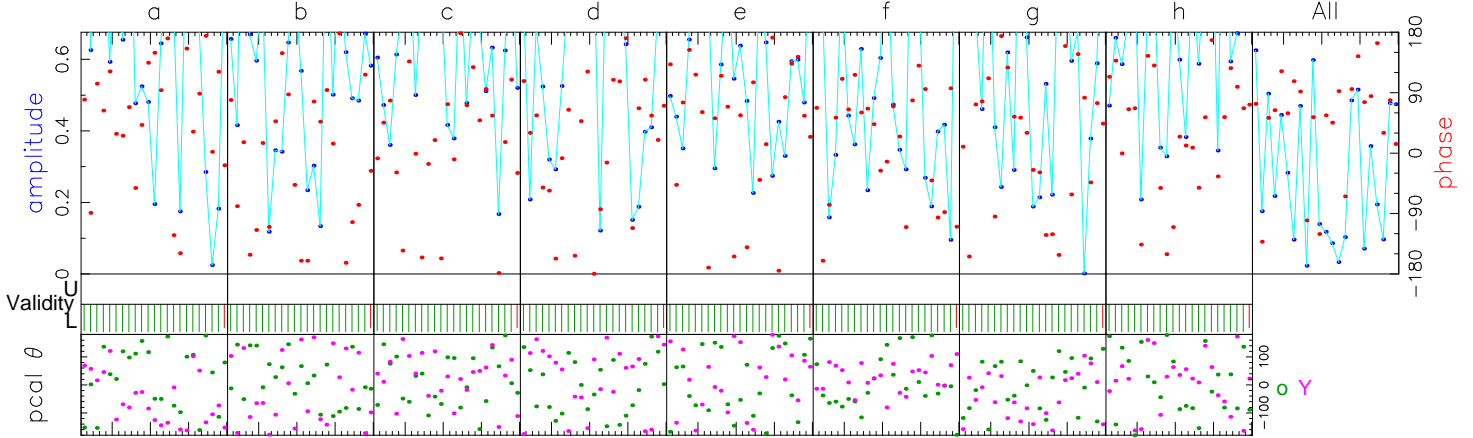
SNR 5.9
Int time 228.084
Amp 0.225
Phase 1700.7
PFD 1.6e-01
Delays (us)
SBD -0.276515
MBD -0.009112
Fringe rate (Hz)
0.492344
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 050011.00
Stop 050400.00
FRT 050205.00
Corr/FF/build
2017:208:015052
2017:215:024728
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



| | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | 86380.00 | Freq (MHz) | All |
|-------------------------|-------------------|----------|--------------------------|----------|--------------------|----------|----------------------|----------|--------------|-------------|
| U/L | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 0/458 | 80.7 | 80.7 |
| o | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Ampl. | 0.2 |
| Y | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | -1000 | Sbd box | 93.6 |
| o:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | APs used | |
| o:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC freqs | |
| o | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC phase | |
| Y | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ManI PC | |
| o | W00LR | W01LR | W02LR | W03LR | W04LR | W05LR | W06LR | W07LR | PC amp | |
| Y | W00LL | W01LL | W02LL | W03LL | W04LL | W05LL | W06LL | W07LL | Chan ids | |
| | | | | | | | | | Tracks | |
| | | | | | | | | | Tracks | |
| Group delay (usec)(sbd) | 5.01459290094E+03 | | Apriori delay (usec) | | 5.01488326299E+03 | | Resid mbdelay (usec) | | -9.11205E-03 | +/- 3.7E-04 |
| Sband delay (usec) | 5.01460674849E+03 | | Apriori clock (usec) | | -1.5872263E+00 | | Resid sbdelay (usec) | | -2.76515E-01 | +/- 2.9E-03 |
| Phase delay (usec) | 5.01488326559E+03 | | Apriori clockrate (us/s) | | -2.0215610E-07 | | Resid phdelay (usec) | | 2.60099E-06 | +/- 6.2E-07 |
| Delay rate (us/s) | 1.99910501667E+00 | | Apriori rate (us/s) | | 1.99909930104E+00 | | Resid rate (us/s) | | 5.71563E-06 | +/- 4.7E-09 |
| Total phase (deg) | 1799.3 | | Apriori accel (us/s/s) | | -2.61549887849E-05 | | Resid phase (deg) | | 1700.7 | +/- 19.3 |

ph/seg (deg) 73.9 46.2 Search (1024X32) 0.198 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 104.3 80.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.5 27.3 Inc. seg. avg. 0.238 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 41.0 47.6 Inc. frq. avg. 0.204 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 o: az 122.6 el 27.4 pa -42.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11527.613 -188.138 ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/oY.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/oY.W.204.zpwvdj simultaneous interpolator