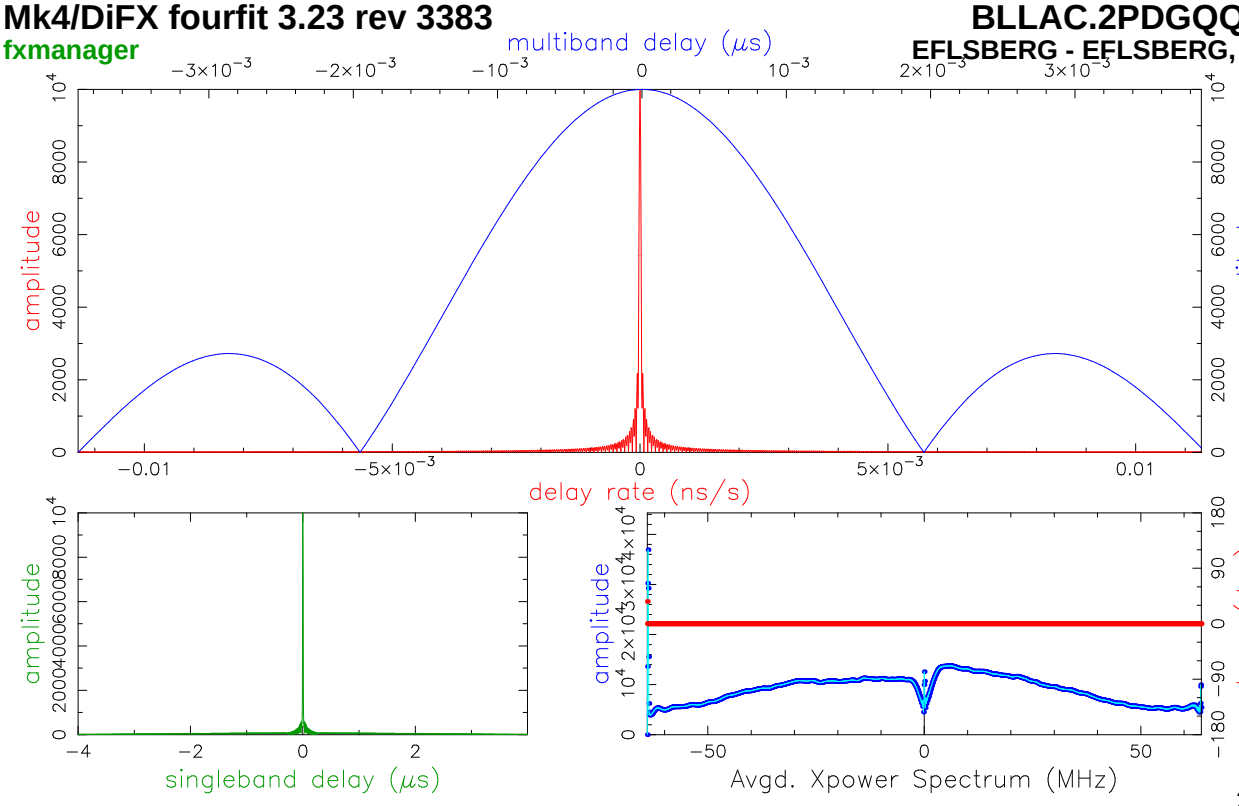
# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

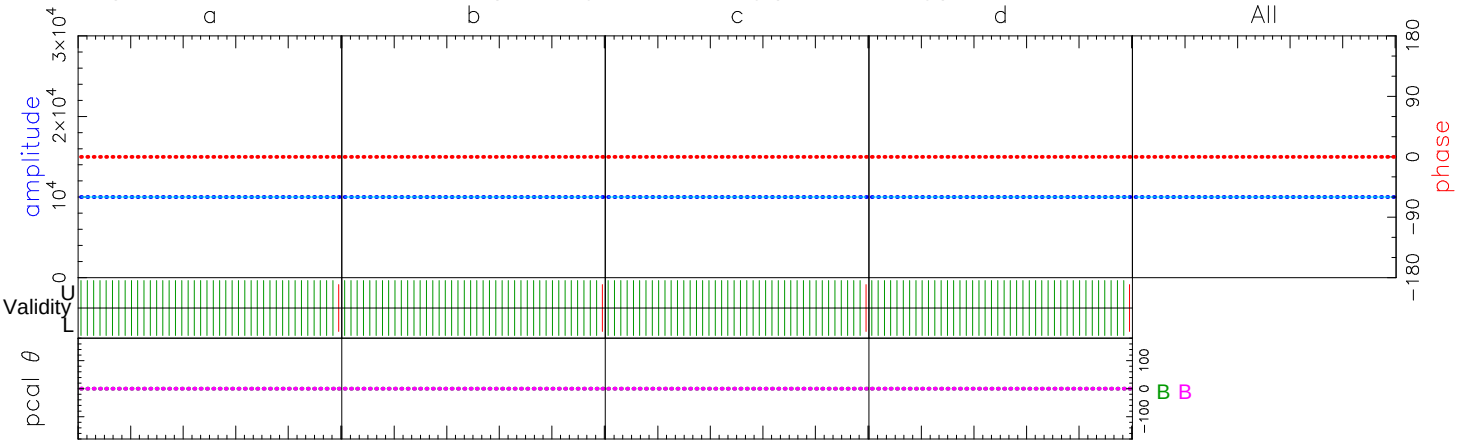
# BLLAC.2PDGQQ, No0001, BB

## EFLSBERG - EFLSBERG, fgroup W, pol LL




| | |
|---|---|
| Fringe quality | 9 |
| SNR | 473634.1 |
| Int time | 299.979 |
| Amp | 10000.000 |
| 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) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | |
| | 2023:124:143316 |
| | 2023:124:143627 |
| | 2021:298:074129 |
| RA & Dec (J2000) | |
| | 22h02m43.291370s |
| | +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 0.0 | 0.0 | 0.0 | 0.0 | Phase | 0.0 |
| | 10000.0 | 10000.0 | 10000.0 | 10000.0 | Ampl. | 10000.0 |
| | 1025.0 | 1025.0 | 1025.0 | 1025.0 | Sbd box | 1025.0 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| B | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 0.00000000000E+00 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | 0.00000E+00 | +/- | 2.3E-09 |
| Sband delay (usec) | 0.00000000000E+00 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 0.00000E+00 | +/- | 9.1E-09 |
| Phase delay (usec) | 0.00000000000E+00 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 0.00000E+00 | +/- | 3.9E-12 |
| Delay rate (us/s) | 0.00000000000E+00 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | 0.00000E+00 | +/- | 4.5E-14 |
| Total phase (deg) | 0.0 | Apriori accel (us/s/s) | 0.00000000000E+00 | Resid phase (deg) | 0.0 | +/- | 0.0 |

| | RMS | Theor. | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Amplitude | 10000.000 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
| ph/seg (deg) | 0.0 | 0.0 | Search (2048X16) | 10000.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 0.0 | 0.0 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 0.0 | 0.0 | Inc. seg. avg. | 10000.000 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 0.0 | 0.0 | Inc. frq. avg. | 10000.000 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 B: az 293.3 el 38.1 pa 52.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

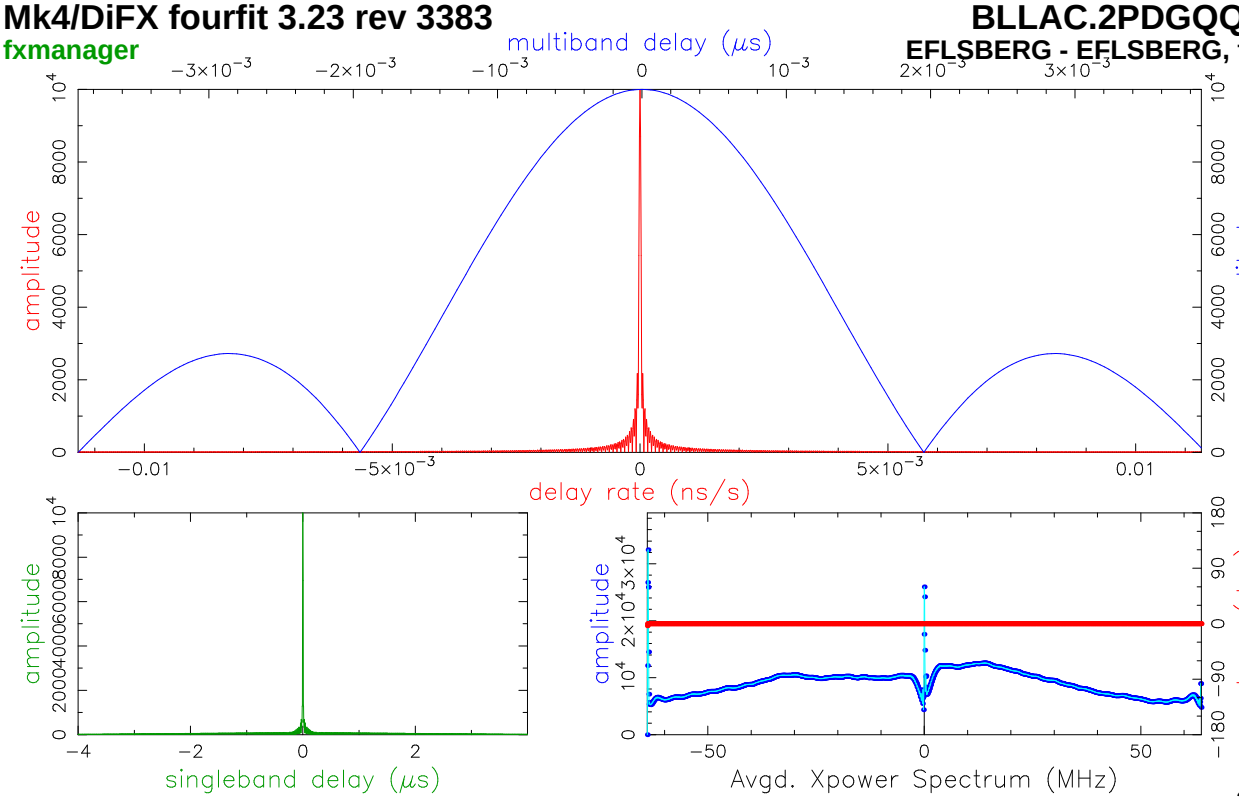
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BB..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BB.W.13.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

# BLLAC.2PDGQQ, No0001, BB

## EFLSBERG - EFLSBERG, fgroup W, pol RR

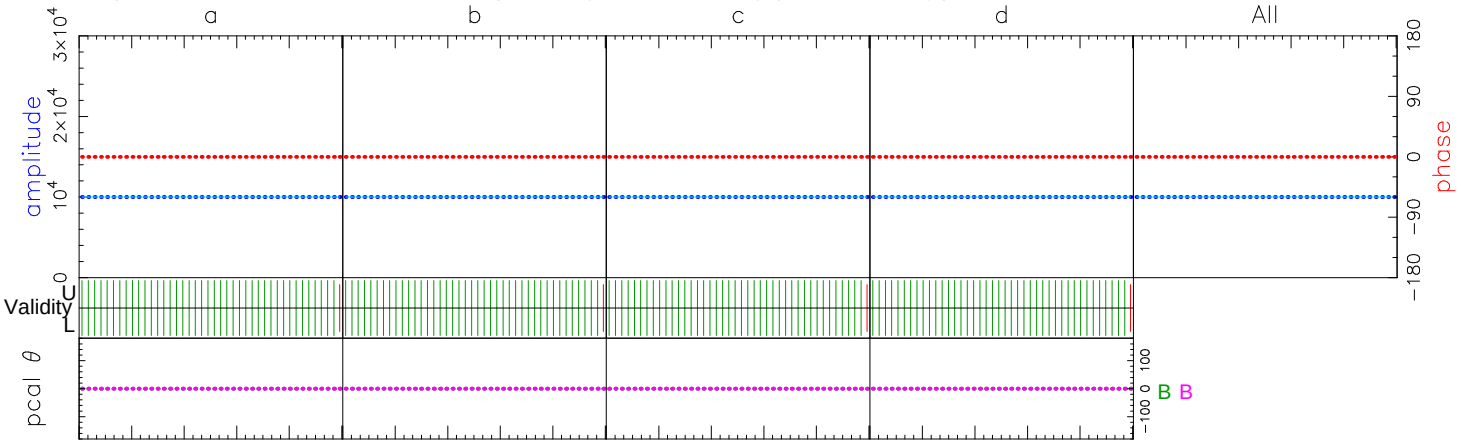



Fringe quality 9

SNR 473634.1
Int time 299.979
Amp 10000.000
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) 0.512

Exp. f231a
Exper # 1234
Yr:day 2023:124
Start 120000.00
Stop 120500.03
FRT 120230.00
Corr/FF/build
2023:124:143316
2023:124:143631
2021:298:074129
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 0.0 | 0.0 | 0.0 | 0.0 | Phase | 0.0 |
| | 10000.0 | 10000.0 | 10000.0 | 10000.0 | Ampl. | 10000.0 |
| | 1025.0 | 1025.0 | 1025.0 | 1025.0 | Sbd box | 1025.0 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| B | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 0.00000000000E+00 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | 0.00000E+00 | +/- | 2.3E-09 |
| Sband delay (usec) | 0.00000000000E+00 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 0.00000E+00 | +/- | 9.1E-09 |
| Phase delay (usec) | 0.00000000000E+00 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 0.00000E+00 | +/- | 3.9E-12 |
| Delay rate (us/s) | 0.00000000000E+00 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | 0.00000E+00 | +/- | 4.5E-14 |
| Total phase (deg) | 0.0 | Apriori accel (us/s/s) | 0.00000000000E+00 | Resid phase (deg) | 0.0 | +/- | 0.0 |

| | RMS | Theor. | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Amplitude | 10000.000 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
| ph/seg (deg) | 0.0 | 0.0 | Search (2048X16) | 10000.000 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 0.0 | 0.0 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 0.0 | 0.0 | Inc. seg. avg. | 10000.000 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 0.0 | 0.0 | Inc. frq. avg. | 10000.000 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 B: az 293.3 el 38.1 pa 52.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

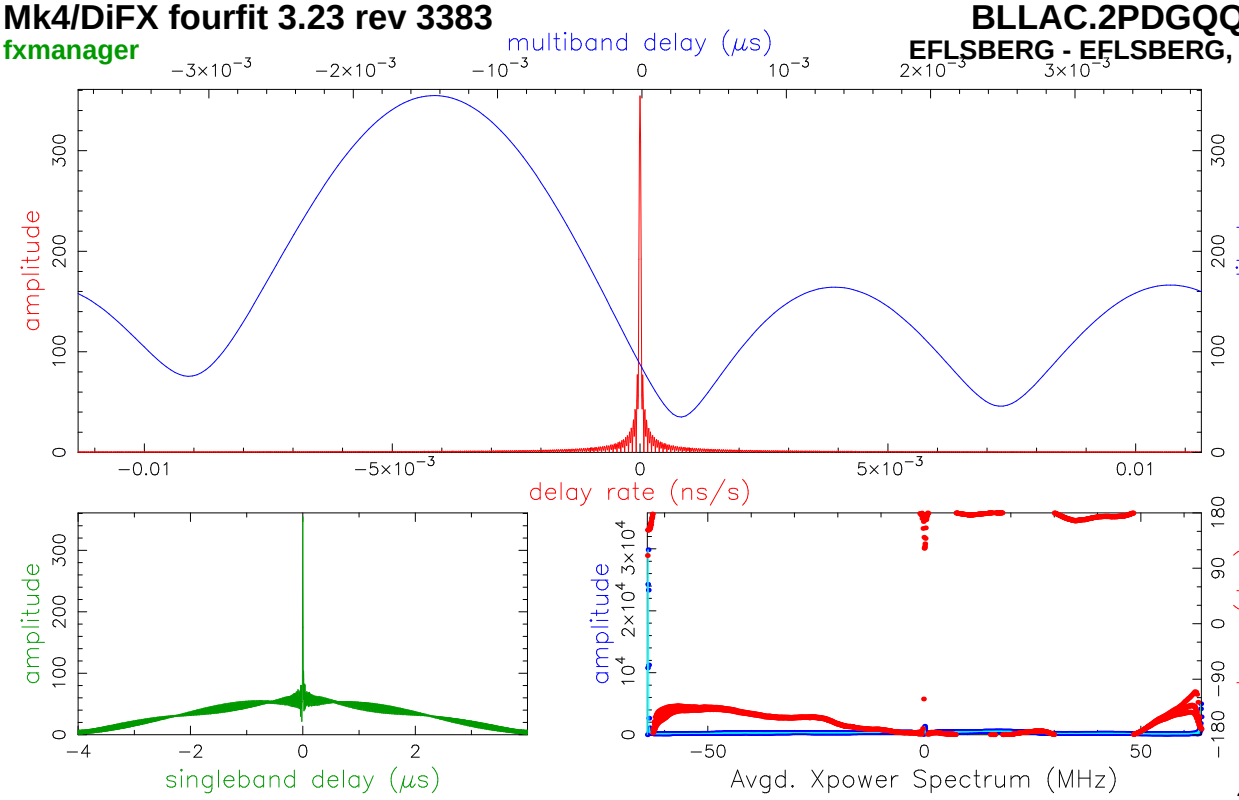
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BB..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BB.W.14.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

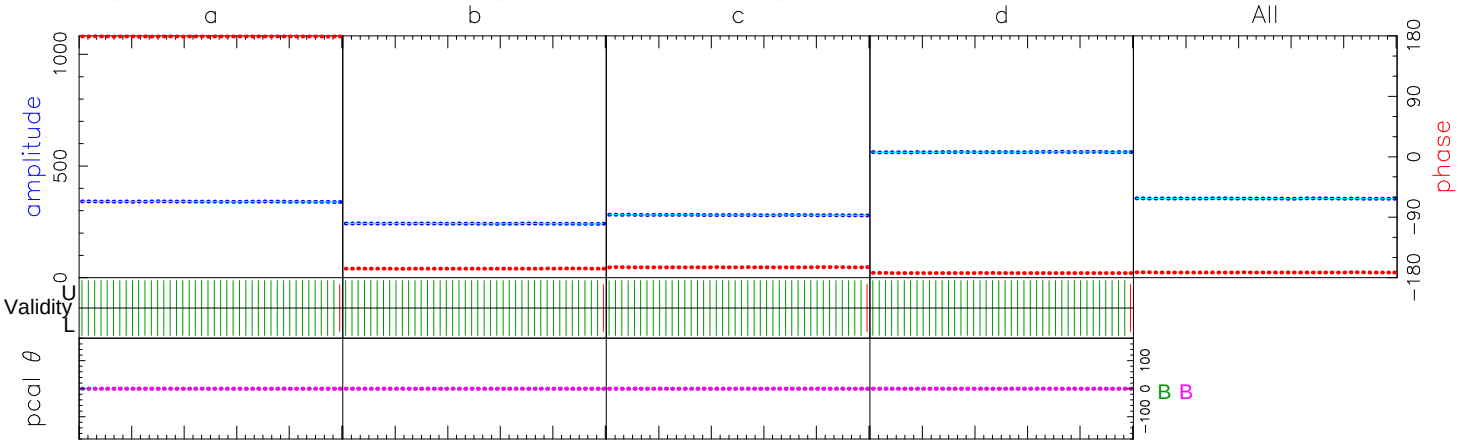
# BLLAC.2PDGQQ, No0001, BB

## EFLSBERG - EFLSBERG, fgroup W, pol LR




| | |
|---|---|
| Fringe quality | 8 |
| SNR | 17099.4 |
| Int time | 299.979 |
| Amp | 361.025 |
| Phase | -172.1 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -0.000801 |
| MBD | -0.001484 |
| Fringe rate (Hz) | 0.000001 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143636 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 179.0 | -166.4 | -164.3 | -172.9 | Phase | -172.1 |
| | 340.8 | 242.2 | 280.8 | 562.4 | Ampl. | 356.6 |
| | 1024.4 | 1024.8 | 1024.5 | 1025.0 | Sbd box | 1024.8 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| B | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -1.48350000000E-03 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | -1.48350E-03 | +/- | 6.5E-08 |
| Sband delay (usec) | -8.00750000000E-04 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | -8.00750E-04 | +/- | 2.5E-07 |
| Phase delay (usec) | -5.54885671971E-06 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | -5.54886E-06 | +/- | 1.1E-10 |
| Delay rate (us/s) | 1.41711523917E-11 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | 1.41712E-11 | +/- | 1.2E-12 |
| Total phase (deg) | -172.1 | Apriori accel (us/s/s) | 0.00000000000E+00 | Resid phase (deg) | -172.1 | +/- | 0.0 |

| | RMS | Theor. | Amplitude | 361.025 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 0.1 | 0.0 | Search (2048X16) | 354.790 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 1.8 | 0.0 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 9.3 | 0.0 | Inc. seg. avg. | 354.571 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 34.4 | 0.0 | Inc. frq. avg. | 356.563 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 B: az 293.3 el 38.1 pa 52.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

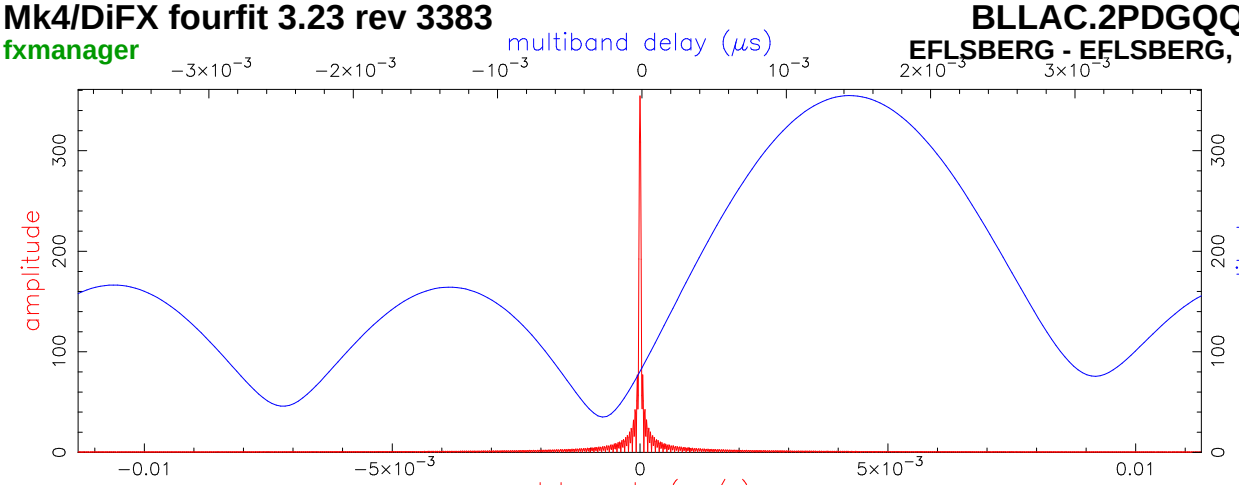
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BB..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BB.W.15.2PDGQQ

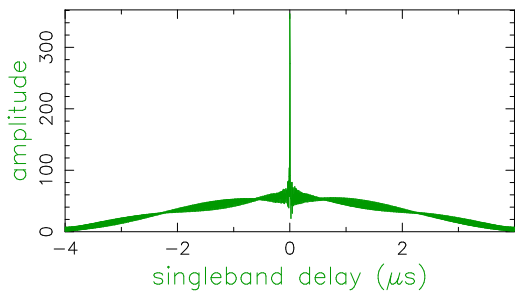
# Mk4/DiFX fourfit 3.23 rev 3383

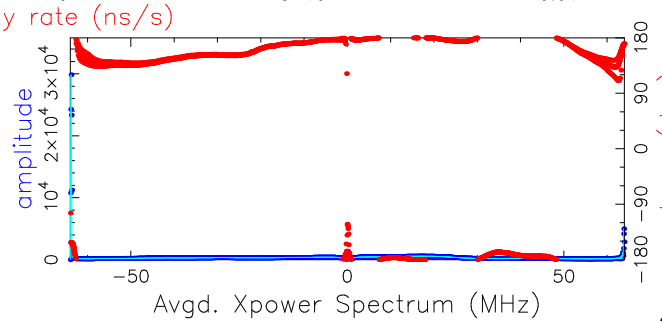
**fxmanager**

# BLLAC.2PDGQQ, No0001, BB

## EFLSBERG - EFLSBERG, fgroup W, pol RL

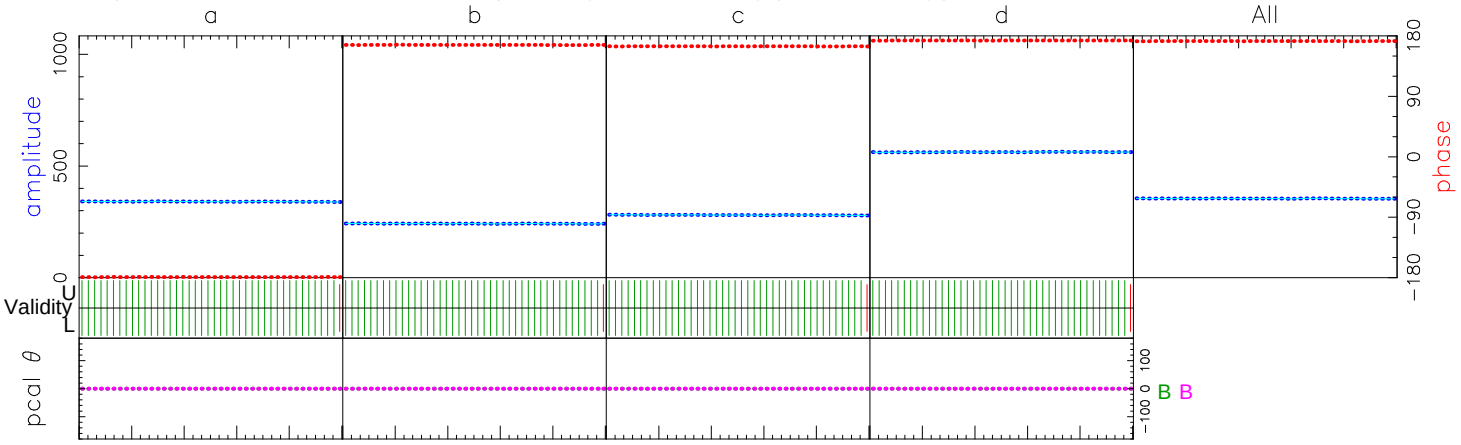



| | |
|---|---|
| Fringe quality | 8 |
| SNR | 17099.4 |
| Int time | 299.979 |
| Amp | 361.025 |
| Phase | 172.1 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | 0.000801 |
| MBD | 0.001484 |
| Fringe rate (Hz) | -0.000001 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143641 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | -179.0 | 166.4 | 164.3 | 172.9 | Phase | 172.1 |
| | 340.8 | 242.2 | 280.8 | 562.4 | Ampl. | 356.6 |
| | 1025.6 | 1025.2 | 1025.5 | 1025.0 | Sbd box | 1025.2 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:B | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| B | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 1.48350000000E-03 | Apriori delay (usec) | 0.00000000000E+00 | Resid mbdelay (usec) | 1.48350E-03 | +/- | 6.5E-08 |
| Sband delay (usec) | 8.00750000000E-04 | Apriori clock (usec) | 0.0000000E+00 | Resid sbdelay (usec) | 8.00750E-04 | +/- | 2.5E-07 |
| Phase delay (usec) | 5.54885671965E-06 | Apriori clockrate (us/s) | 0.0000000E+00 | Resid phdelay (usec) | 5.54886E-06 | +/- | 1.1E-10 |
| Delay rate (us/s) | -1.41711523917E-11 | Apriori rate (us/s) | 0.00000000000E+00 | Resid rate (us/s) | -1.41712E-11 | +/- | 1.2E-12 |
| Total phase (deg) | 172.1 | Apriori accel (us/s/s) | 0.00000000000E+00 | Resid phase (deg) | 172.1 | +/- | 0.0 |

| | RMS | Theor. | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Amplitude | 361.025 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
| ph/seg (deg) | 0.1 | 0.0 | Search (2048X16) | 354.790 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 1.8 | 0.0 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 9.3 | 0.0 | Inc. seg. avg. | 354.571 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 34.4 | 0.0 | Inc. frq. avg. | 356.563 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 B: az 293.3 el 38.1 pa 52.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

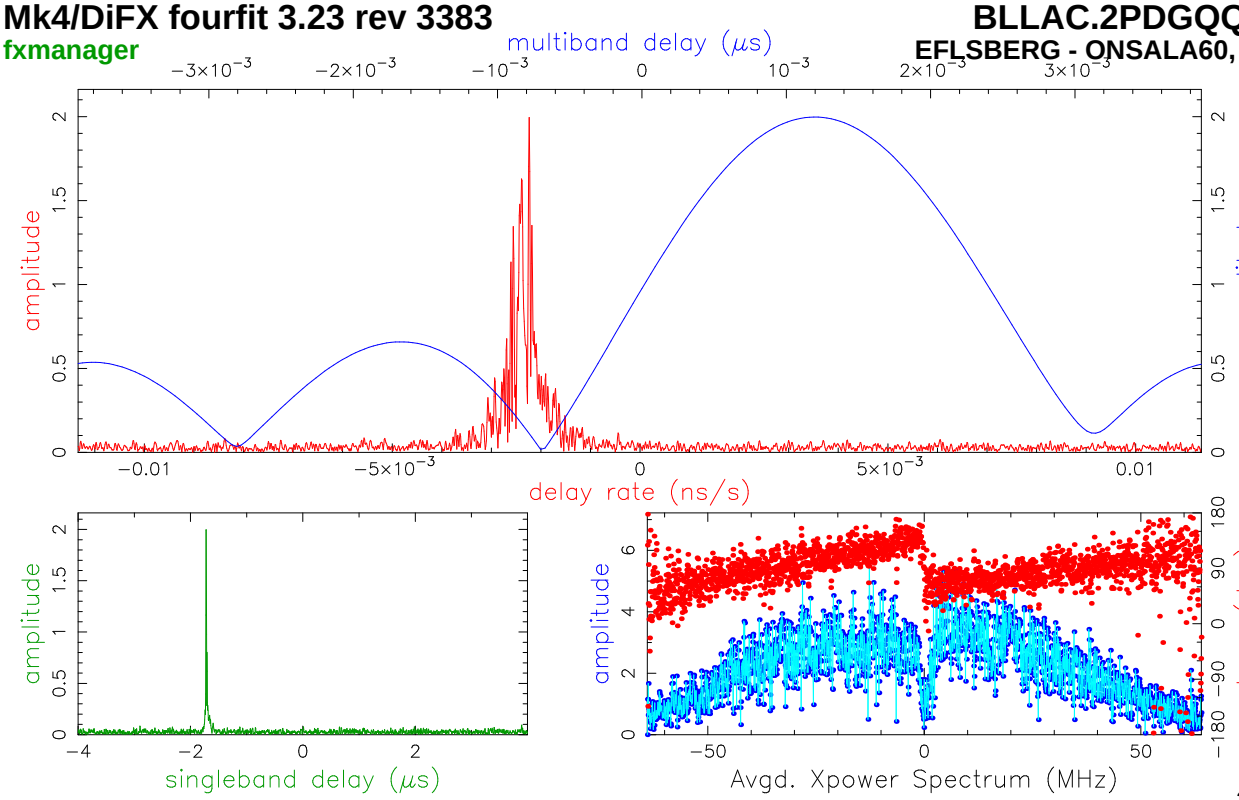
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BB..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BB.W.16.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

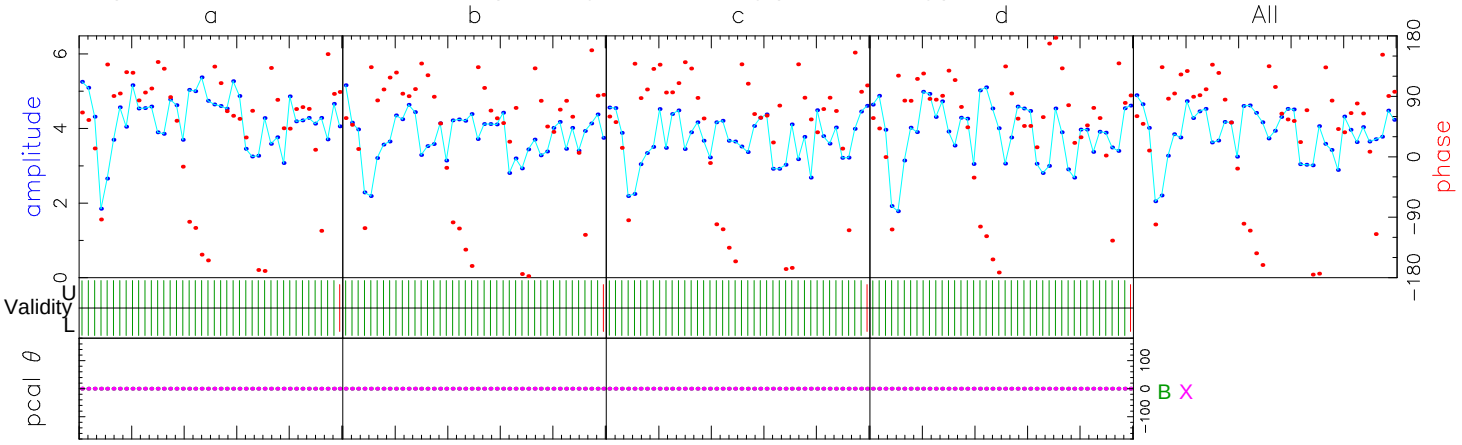
# BLLAC.2PDGQQ, No0001, BX

**EFLSBERG - ONSALA60, fgroup W, pol LL**




| | |
|---|---|
| Fringe quality | 5 |
| SNR | 100.8 |
| Int time | 299.946 |
| Amp | 2.162 |
| Phase | -269.7 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -1.720672 |
| MBD | 0.001247 |
| Fringe rate (Hz) | -0.192796 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143547 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 92.4 | 90.5 | 95.4 | 82.9 | Phase | 90.3 |
| | 2.2 | 2.0 | 1.9 | 2.0 | Ampl. | 2.0 |
| | 584.2 | 584.6 | 584.8 | 584.3 | Sbd box | 584.5 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| X | 0 | 0 | 0 | 0 | PC freqs | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| X | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| X | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -7.60969869858E+01 | Apriori delay (usec) | -7.43794844443E+01 | Resid mbdelay (usec) | 1.24746E-03 | +/- | 1.1E-05 |
| Sband delay (usec) | -7.61001566943E+01 | Apriori clock (usec) | -1.0016479E+02 | Resid sbdelay (usec) | -1.72067E+00 | +/- | 4.3E-05 |
| Phase delay (usec) | -7.43794815315E+01 | Apriori clockrate (us/s) | 1.3800001E-06 | Resid phdelay (usec) | 2.91278E-06 | +/- | 1.8E-08 |
| Delay rate (us/s) | -1.00631715630E-01 | Apriori rate (us/s) | -1.00629477458E-01 | Resid rate (us/s) | -2.23817E-06 | +/- | 2.1E-10 |
| Total phase (deg) | -194.1 | Apriori accel (us/s/s) | -5.51047275209E-06 | Resid phase (deg) | -269.7 | +/- | 0.6 |

| | RMS | Theor. | Amplitude | 2.162 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 71.3 | 3.7 | Search (2048X16) | 1.974 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 88.1 | 6.4 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 6.5 | 1.1 | Inc. seg. avg. | 3.942 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 7.7 | 2.0 | Inc. frq. avg. | 2.034 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 X: az 291.5 el 38.0 pa 42.6 u,v (fr/asec) 772.443 -864.252 simultaneous interpolator

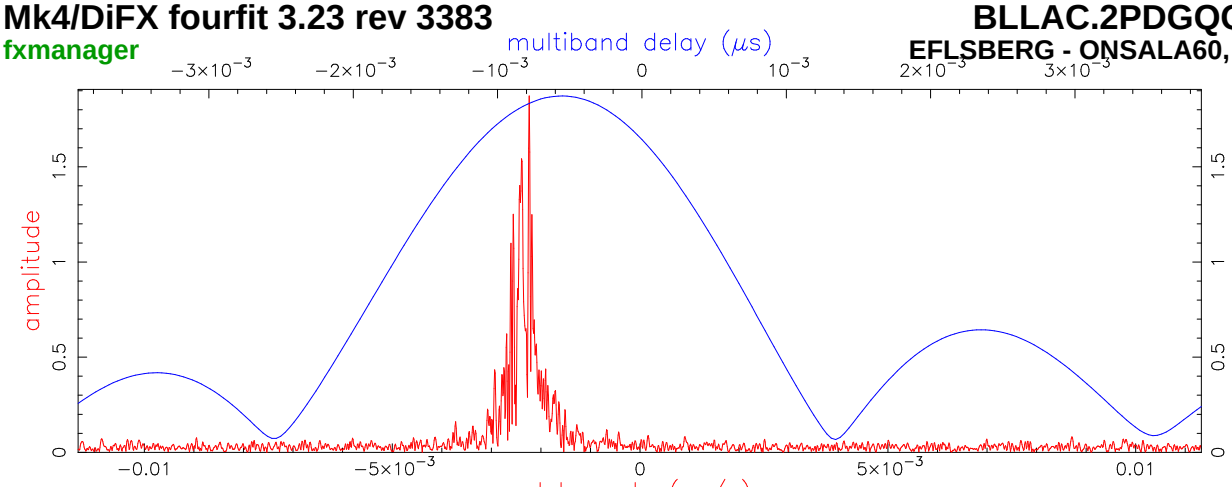
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BX..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BX.W.5.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

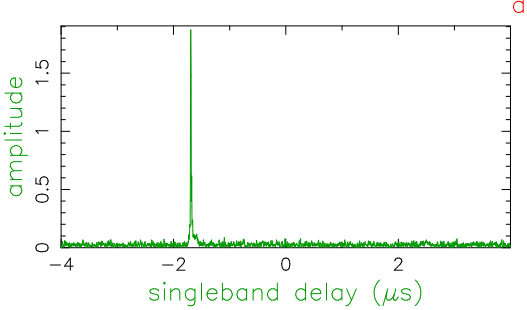
# BLLAC.2PDGQQ, No0001, BX

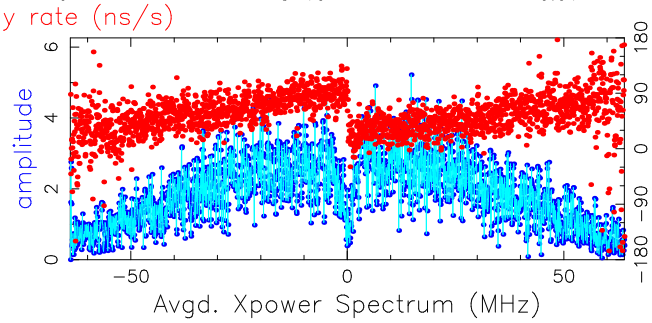
## EFLSBERG - ONSALA60, fgroup W, pol RR



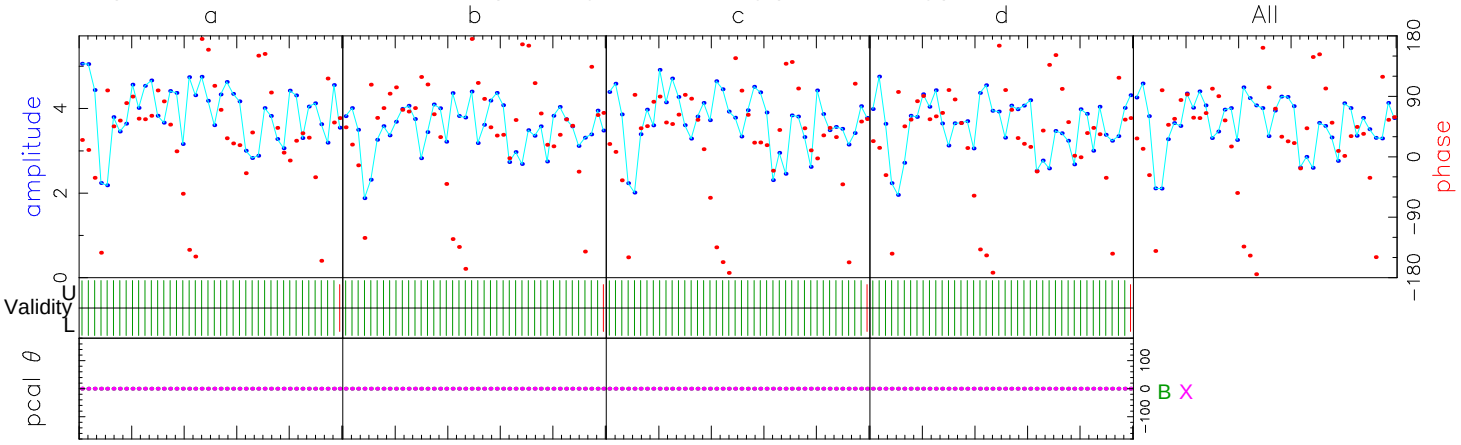

Fringe quality 5

| | |
|---|---|
| SNR | 88.9 |
| Int time | 299.946 |
| Amp | 1.907 |
| Phase | -304.2 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -1.691043 |
| MBD | -0.000544 |
| Fringe rate (Hz) | -0.192802 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143552 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |




Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | a | b | c | d | | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 51.5 | 66.7 | 51.3 | 54.5 | Phase | 55.8 |
| | 2.0 | 1.8 | 2.0 | 1.8 | Ampl. | 1.9 |
| | 591.9 | 592.2 | 592.2 | 592.0 | Sbd box | 592.1 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| X | 0 | 0 | 0 | 0 | PC freqs | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| X | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| X | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -7.60675284545E+01 | Apriori delay (usec) | -7.43794844443E+01 | Resid mbdelay (usec) | -5.44010E-04 | +/- | 1.3E-05 |
| Sband delay (usec) | -7.60705276943E+01 | Apriori clock (usec) | -1.0016479E+02 | Resid sbdelay (usec) | -1.69104E+00 | +/- | 4.8E-05 |
| Phase delay (usec) | -7.43794826451E+01 | Apriori clockrate (us/s) | 1.3800001E-06 | Resid phdelay (usec) | 1.79921E-06 | +/- | 2.1E-08 |
| Delay rate (us/s) | -1.00631715700E-01 | Apriori rate (us/s) | -1.00629477458E-01 | Resid rate (us/s) | -2.23824E-06 | +/- | 2.4E-10 |
| Total phase (deg) | -228.6 | Apriori accel (us/s/s) | -5.51047275209E-06 | Resid phase (deg) | -304.2 | +/- | 0.6 |

| | RMS | Theor. | Amplitude | 1.907 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 71.3 | 4.2 | Search (2048X16) | 1.817 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 100.4 | 7.3 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 8.9 | 1.3 | Inc. seg. avg. | 3.709 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 3.8 | 2.3 | Inc. frq. avg. | 1.913 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 X: az 291.5 el 38.0 pa 42.6 u,v (fr/asec) 772.443 -864.252 simultaneous interpolator

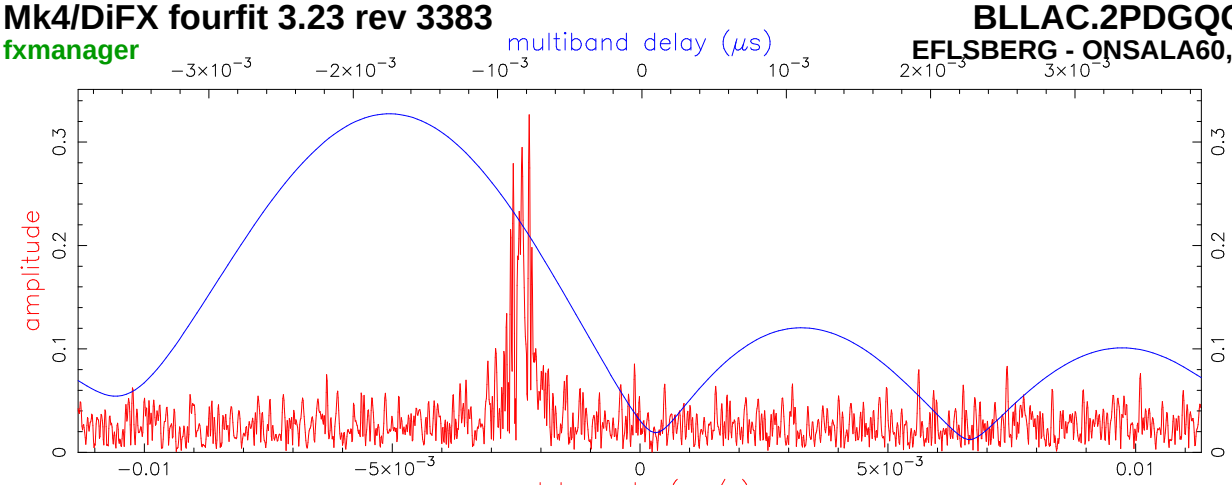
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BX..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BX.W.6.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

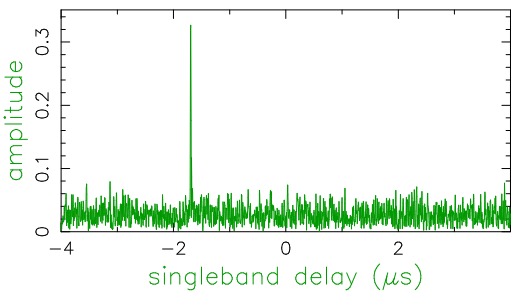
# BLLAC.2PDGQQ, No0001, BX

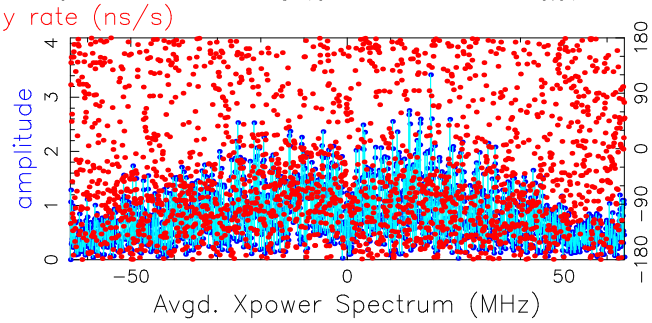
## EFLSBERG - ONSALA60, fgroup W, pol LR




Fringe quality 9

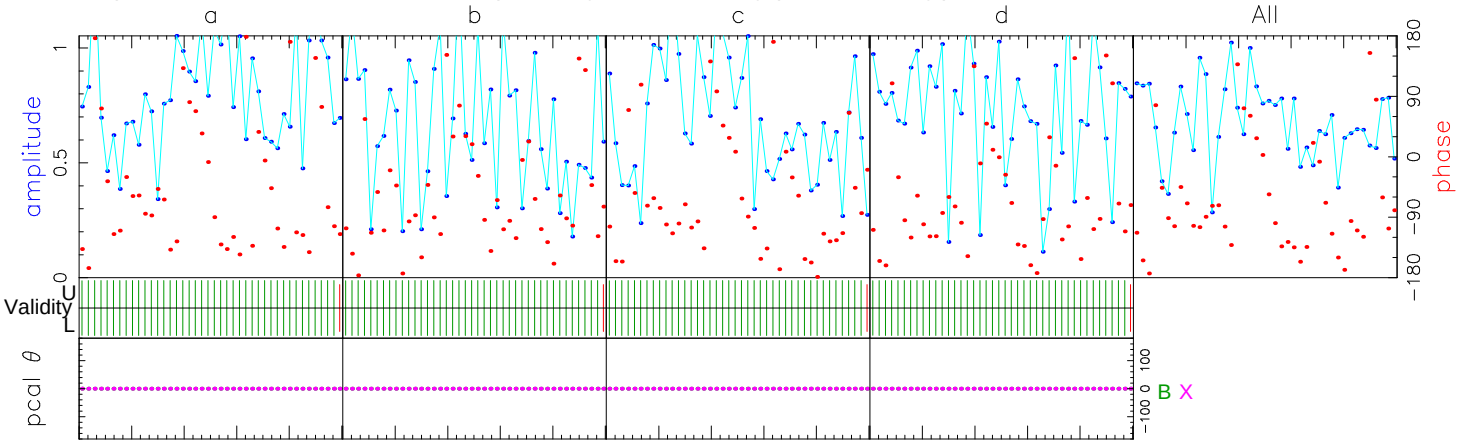
| | |
|---|---|
| SNR | 16.4 |
| Int time | 299.946 |
| Amp | 0.351 |
| Phase | -101.8 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -1.693190 |
| MBD | -0.001829 |
| Fringe rate (Hz) | -0.192796 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |




| | |
|---|---|
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 |
| | 2023:124:143557 |
| | 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s |
| | +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | a | b | c | d | | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | |
| | -118.7 | -90.1 | -94.0 | -103.6 | Phase | -101.8 |
| | 0.3 | 0.3 | 0.3 | 0.4 | Ampl. | 0.3 |
| | 591.2 | 591.8 | 591.8 | 591.3 | Sbd box | 591.5 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| X | 0 | 0 | 0 | 0 | PC freqs | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| X | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| X | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -7.60688132045E+01 | Apriori delay (usec) | -7.43794844443E+01 | Resid mbdelay (usec) | -1.82876E-03 | +/- | 6.8E-05 |
| Sband delay (usec) | -7.60726744443E+01 | Apriori clock (usec) | -1.0016479E+02 | Resid sbdelay (usec) | -1.69319E+00 | +/- | 2.6E-04 |
| Phase delay (usec) | -7.43794877260E+01 | Apriori clockrate (us/s) | 1.3800001E-06 | Resid phdelay (usec) | -3.28164E-06 | +/- | 1.1E-07 |
| Delay rate (us/s) | -1.00631715635E-01 | Apriori rate (us/s) | -1.00629477458E-01 | Resid rate (us/s) | -2.23818E-06 | +/- | 1.3E-09 |
| Total phase (deg) | -26.2 | Apriori accel (us/s/s) | -5.51047275209E-06 | Resid phase (deg) | -101.8 | +/- | 3.5 |

| | RMS | Theor. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Amplitude | 0.351 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | | |
| ph/seg (deg) | 74.6 | 22.7 | Search (2048X16) | 0.324 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 | 4.000 |
| amp/seg (%) | 108.0 | 39.6 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 | 0.004 |
| ph/frq (deg) | 15.6 | 7.0 | Inc. seg. avg. | 0.641 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 10.5 | 12.2 | Inc. frq. avg. | 0.335 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 | 0.00 |

B: az 293.3 el 38.1 pa 52.2 X: az 291.5 el 38.0 pa 42.6 u,v (fr/asec) 772.443 -864.252 simultaneous interpolator

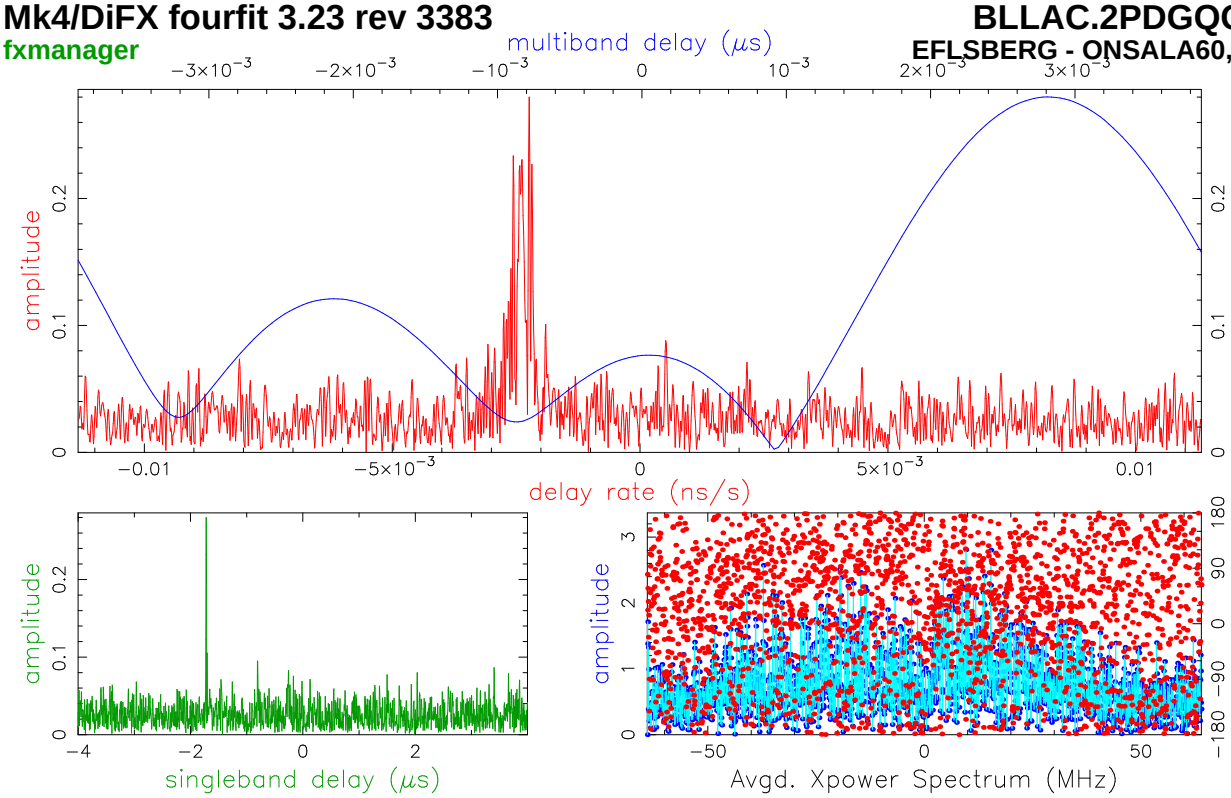
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BX..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BX.W.7.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

# BLLAC.2PDGQQ, No0001, BX

**EFLSBERG - ONSALA60, fgroup W, pol RL**

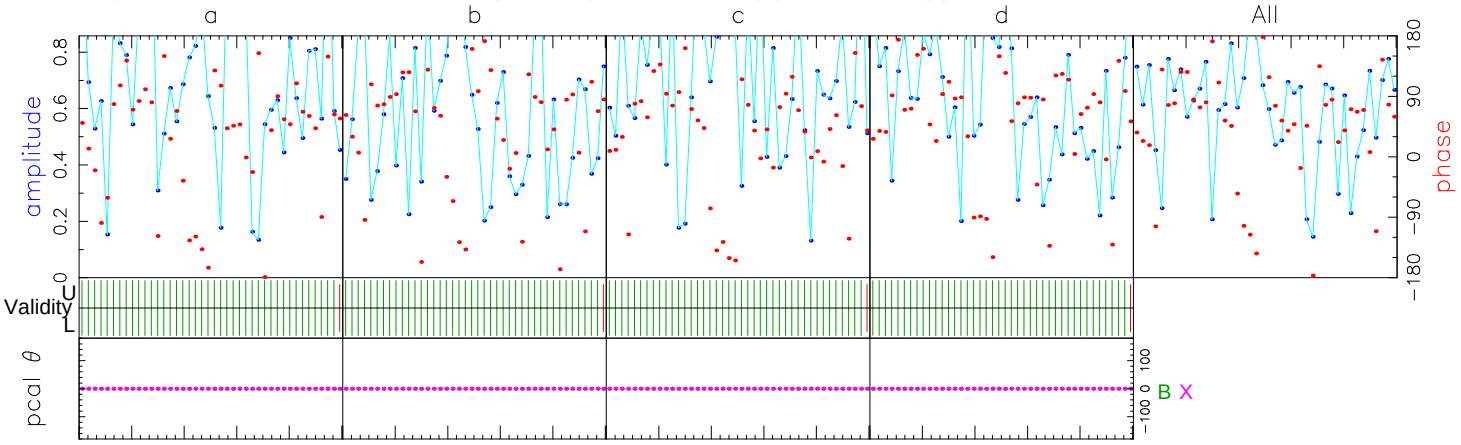



Fringe quality 9

SNR 13.3
Int time 299.946
Amp 0.286
Phase -288.2
PFD 1.8e-31
Delays (us)
SBD -1.719289
MBD 0.002796
Fringe rate (Hz)
-0.192638
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f231a
Exper # 1234
Yr:day 2023:124
Start 120000.00
Stop 120500.03
FRT 120230.00
Corr/FF/build
2023:124:143316
2023:124:143602
2021:298:074129
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 72.2 | 75.9 | 60.6 | 79.8 | Phase | 71.8 |
| | 0.3 | 0.2 | 0.3 | 0.3 | Ampl. | 0.3 |
| | 584.5 | 585.1 | 585.1 | 584.8 | Sbd box | 584.9 |
| U/L | 586/586 | 586/586 | 586/586 | 586/586 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| X | 0 | 0 | 0 | 0 | PC freqs | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:X | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| X | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| X | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -7.60954388608E+01 | Apriori delay (usec) | -7.43794844443E+01 | Resid mbdelay (usec) | 2.79558E-03 | +/- | 8.3E-05 |
| Sband delay (usec) | -7.60987736943E+01 | Apriori clock (usec) | -1.0016479E+02 | Resid sbdelay (usec) | -1.71929E+00 | +/- | 3.2E-04 |
| Phase delay (usec) | -7.43794821300E+01 | Apriori clockrate (us/s) | 1.3800001E-06 | Resid phdelay (usec) | 2.31431E-06 | +/- | 1.4E-07 |
| Delay rate (us/s) | -1.00631713800E-01 | Apriori rate (us/s) | -1.00629477458E-01 | Resid rate (us/s) | -2.23634E-06 | +/- | 1.6E-09 |
| Total phase (deg) | -212.6 | Apriori accel (us/s/s) | -5.51047275209E-06 | Resid phase (deg) | -288.2 | +/- | 4.3 |

| | RMS | Theor. | Amplitude | 0.286 +/- 0.021 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 76.0 | 27.9 | Search (2048X16) | 0.273 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 129.7 | 48.6 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 10.2 | 8.6 | Inc. seg. avg. | 0.540 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 16.0 | 15.0 | Inc. frq. avg. | 0.284 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 X: az 291.5 el 38.0 pa 42.6 u,v (fr/asec) 772.443 -864.252 simultaneous interpolator

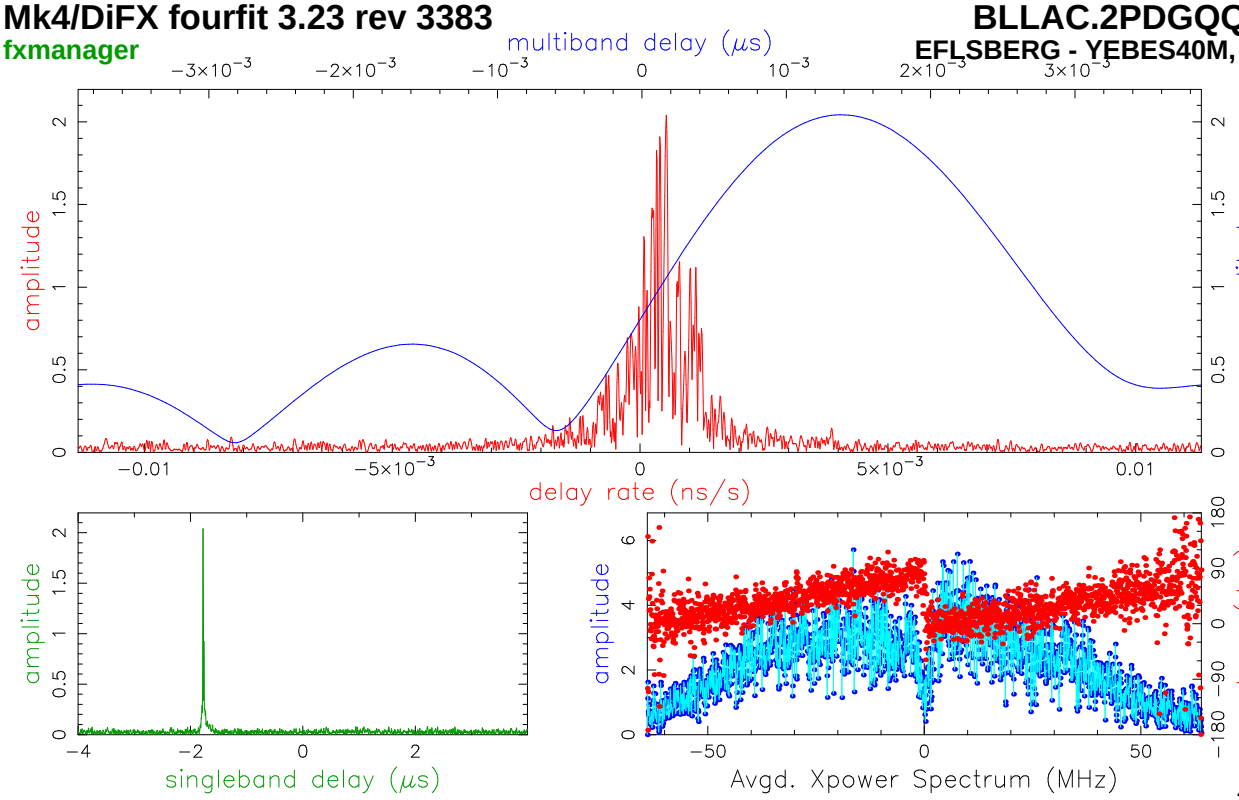
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BX..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BX.W.8.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

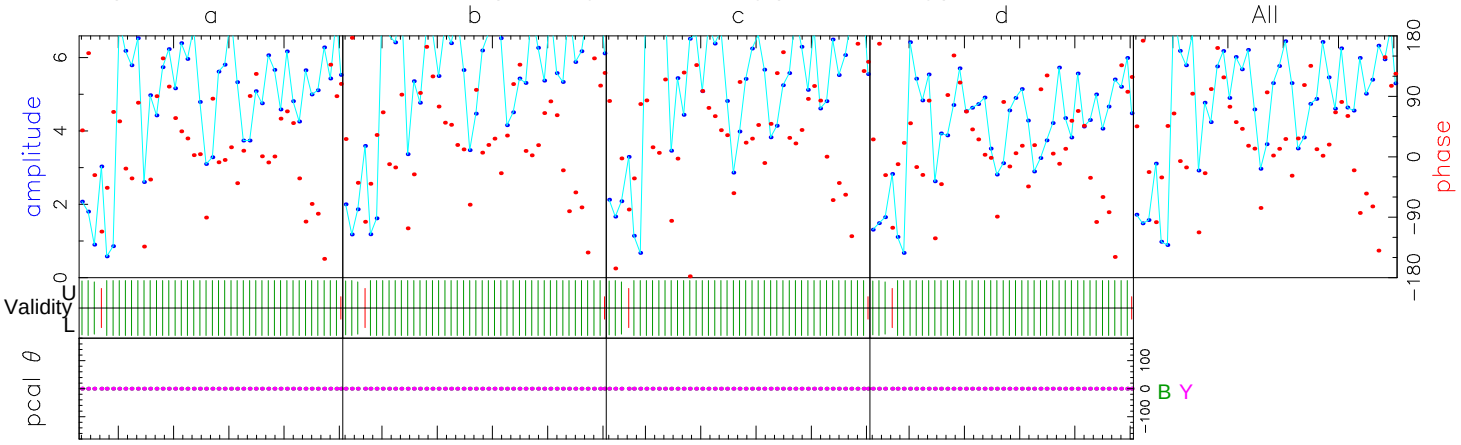
# BLLAC.2PDGQQ, No0001, BY

**EFLSBERG - YEBES40M, fgroup W, pol LL**




| | |
|---|---|
| Fringe quality | 4 |
| SNR | 100.4 |
| Int time | 279.874 |
| Amp | 2.197 |
| Phase | -143.3 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -1.775349 |
| MBD | 0.001312 |
| Fringe rate (Hz) | 0.046241 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120017.41 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143723 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 43 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 25.5 | 36.2 | 57.3 | 25.5 | Phase | 36.7 |
| | 2.1 | 2.4 | 2.2 | 1.7 | Ampl. | 2.1 |
| | 570.2 | 570.8 | 570.7 | 570.1 | Sbd box | 570.5 |
| U/L | 549/549 | 549/549 | 549/549 | 549/549 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Y | 0 | 0 | 0 | 0 | PC freqs | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| Y | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -5.70013167985E+02 | Apriori delay (usec) | -5.68241042810E+02 | Resid mbdelay (usec) | 1.31233E-03 | +/- | 1.1E-05 |
| Sband delay (usec) | -5.70016392310E+02 | Apriori clock (usec) | 6.2140091E+01 | Resid sbdelay (usec) | -1.77535E+00 | +/- | 4.3E-05 |
| Phase delay (usec) | -5.68241041626E+02 | Apriori clockrate (us/s) | 5.9999998E-07 | Resid phdelay (usec) | 1.18469E-06 | +/- | 1.8E-08 |
| Delay rate (us/s) | 9.71510643130E-02 | Apriori rate (us/s) | 9.71505274956E-02 | Resid rate (us/s) | 5.36817E-07 | +/- | 2.3E-10 |
| Total phase (deg) | -297.2 | Apriori accel (us/s/s) | 1.26465352094E-05 | Resid phase (deg) | -143.3 | +/- | 0.6 |

| | RMS | Theor. | Amplitude | 2.197 +/- 0.022 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 74.8 | 3.7 | Search (2048X16) | 1.998 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 140.0 | 6.5 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 18.4 | 1.1 | Inc. seg. avg. | 4.794 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 11.8 | 2.0 | Inc. frq. avg. | 2.094 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 Y: az 295.9 el 40.3 pa 67.5 u,v (fr/asec) -735.895 1712.850 simultaneous interpolator

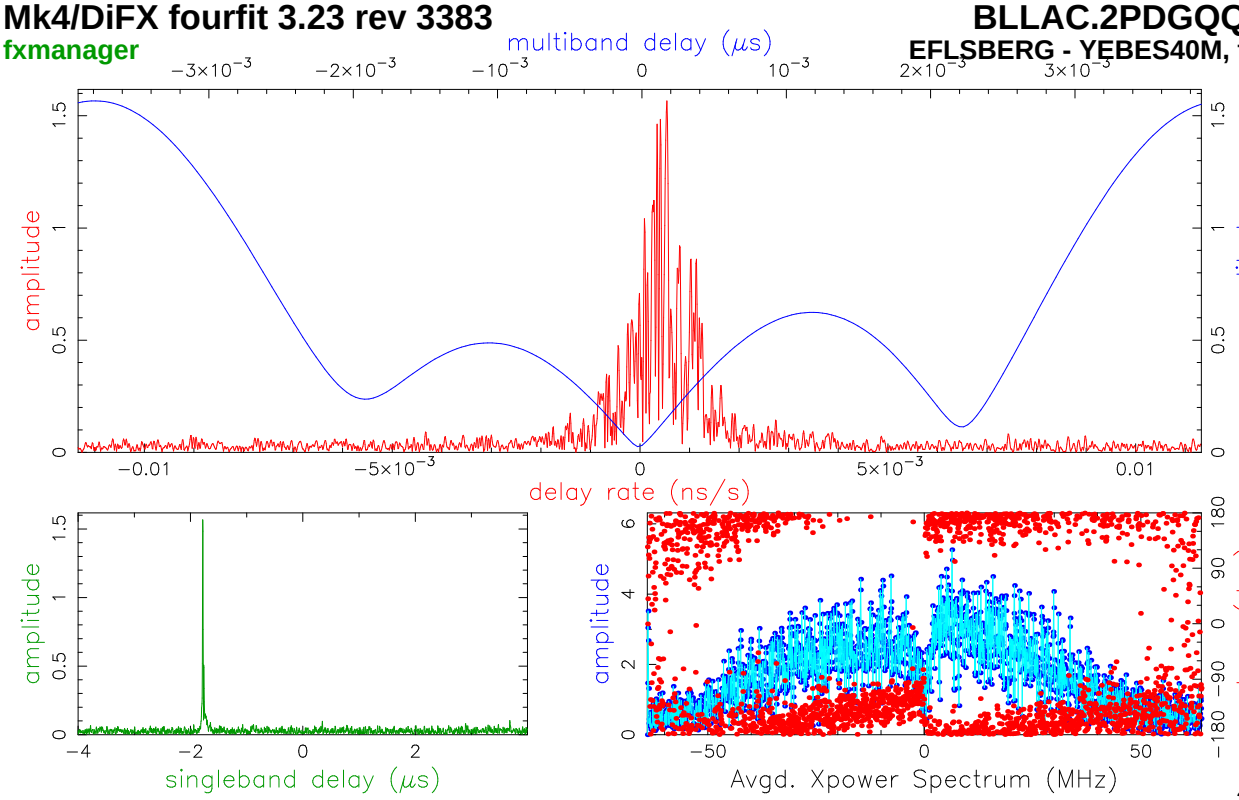
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BY..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BY.W.25.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

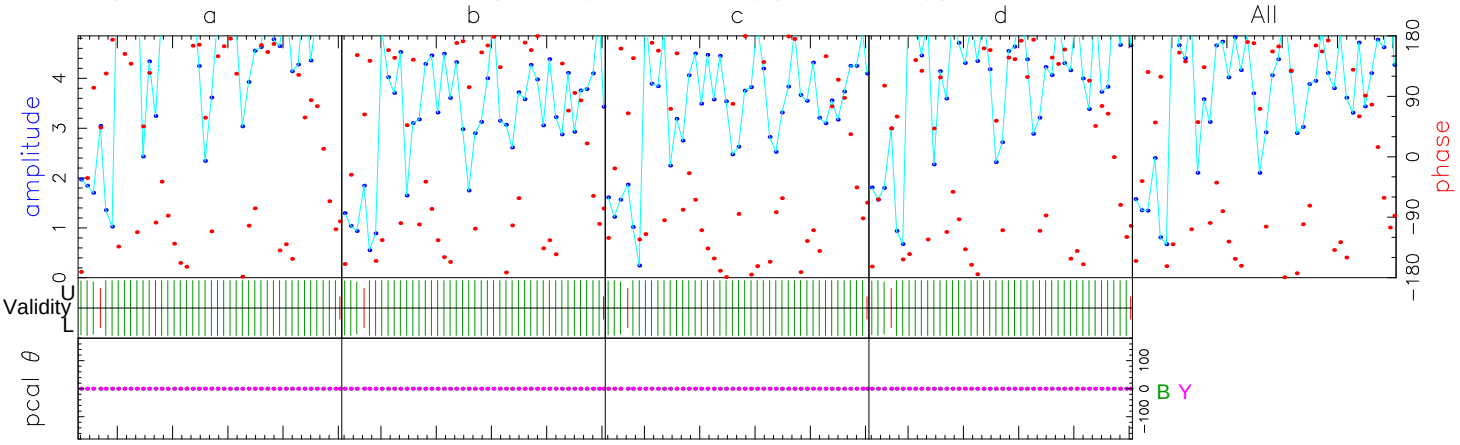
# BLLAC.2PDGQQ, No0001, BY

**EFLSBERG - YEBES40M, fgroup W, pol RR**




| | |
|---|---|
| Fringe quality | 4 |
| SNR | 73.9 |
| Int time | 279.874 |
| Amp | 1.618 |
| Phase | -344.6 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -1.779744 |
| MBD | -0.003768 |
| Fringe rate (Hz) | 0.046376 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120017.41 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143730 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 43 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | -169.8 | -159.6 | -149.0 | -177.3 | Phase | -164.6 |
| | 1.9 | 1.5 | 1.5 | 1.6 | Ampl. | 1.6 |
| | 569.1 | 569.6 | 569.7 | 569.0 | Sbd box | 569.4 |
| U/L | 549/549 | 549/549 | 549/549 | 549/549 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Y | 0 | 0 | 0 | 0 | PC freqs | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| Y | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -5.70018248301E+02 | Apriori delay (usec) | -5.68241042810E+02 | Resid mbdelay (usec) | -3.76799E-03 | +/- | 1.5E-05 |
| Sband delay (usec) | -5.70020787060E+02 | Apriori clock (usec) | 6.2140091E+01 | Resid sbdelay (usec) | -1.77974E+00 | +/- | 5.8E-05 |
| Phase delay (usec) | -5.68241048118E+02 | Apriori clockrate (us/s) | 5.9999998E-07 | Resid phdelay (usec) | -5.30779E-06 | +/- | 2.5E-08 |
| Delay rate (us/s) | 9.71510658803E-02 | Apriori rate (us/s) | 9.71505274956E-02 | Resid rate (us/s) | 5.38385E-07 | +/- | 3.1E-10 |
| Total phase (deg) | -138.6 | Apriori accel (us/s/s) | 1.26465352094E-05 | Resid phase (deg) | -344.6 | +/- | 0.8 |

| | RMS | Theor. | Amplitude | 1.618 +/- 0.022 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 76.4 | 5.1 | Search (2048X16) | 1.545 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 153.9 | 8.8 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 15.1 | 1.5 | Inc. seg. avg. | 3.741 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 10.0 | 2.7 | Inc. frq. avg. | 1.594 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 Y: az 295.9 el 40.3 pa 67.5 u,v (fr/asec) -735.895 1712.850 simultaneous interpolator

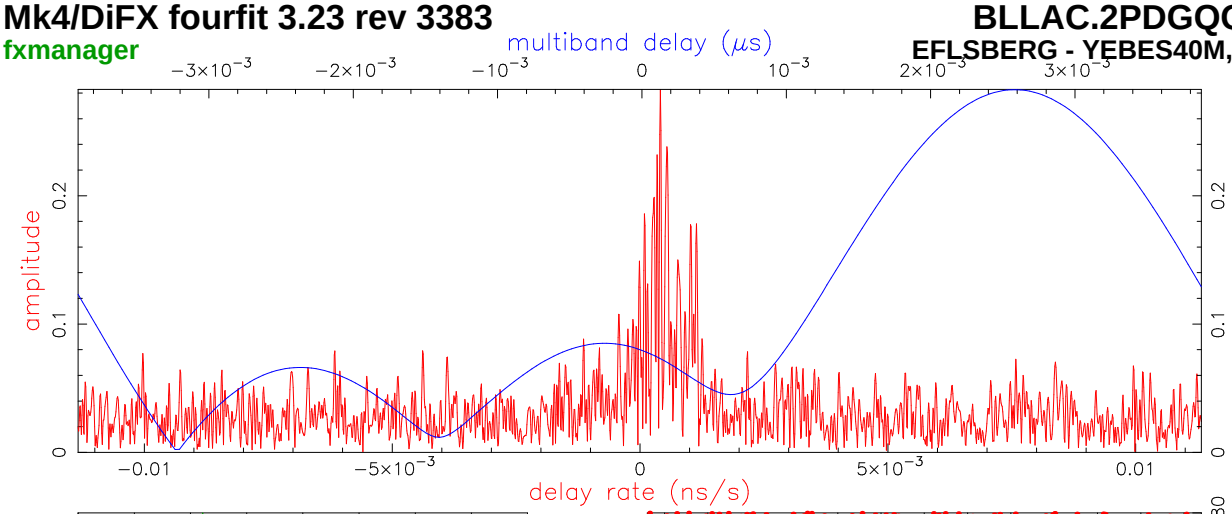
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BY..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BY.W.26.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

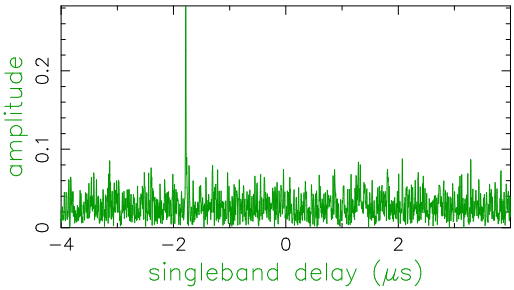
# BLLAC.2PDGQQ, No0001, BY

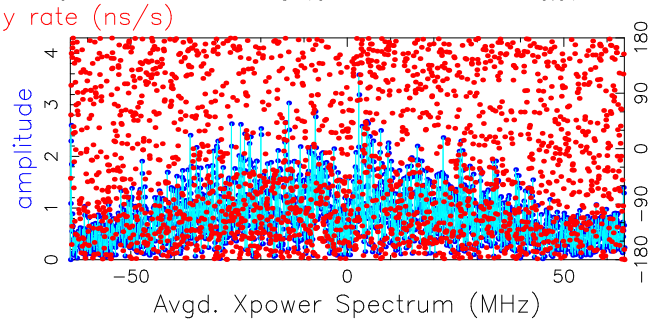
## EFLSBERG - YEBES40M, fgroup W, pol LR




Fringe quality 9

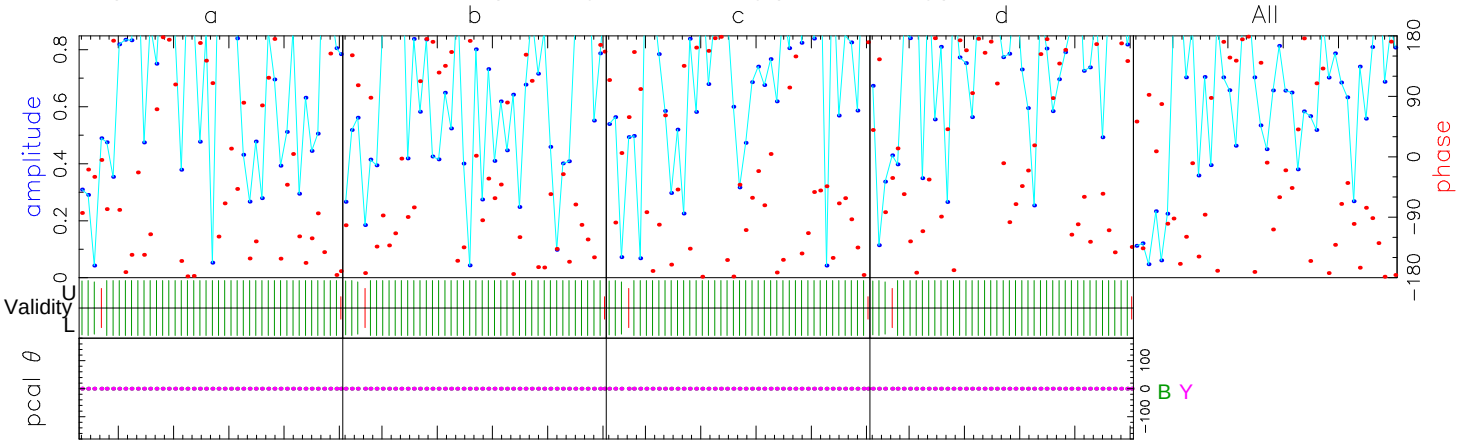
| | |
|---|---|
| SNR | 12.9 |
| Int time | 279.874 |
| Amp | 0.283 |
| Phase | -144.4 |
| PFD | 3.2e-29 |
| Delays (us) | |
| SBD | -1.781106 |
| MBD | 0.002582 |
| Fringe rate (Hz) | 0.034962 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |




| | |
|---|---|
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120017.41 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143735 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 43 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec




| | a | b | c | d | | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | |
| | -150.8 | -139.3 | -137.6 | -151.1 | Phase | -144.4 |
| | 0.3 | 0.2 | 0.3 | 0.3 | Ampl. | 0.3 |
| | 568.3 | 569.1 | 569.2 | 568.8 | Sbd box | 569.0 |
| U/L | 549/549 | 549/549 | 549/549 | 549/549 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Y | 0 | 0 | 0 | 0 | PC freqs | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| Y | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -5.70019710601E+02 | Apriori delay (usec) | -5.68241042810E+02 | Resid mbdelay (usec) | 2.58221E-03 | +/- | 8.6E-05 |
| Sband delay (usec) | -5.70022148310E+02 | Apriori clock (usec) | 6.2140091E+01 | Resid sbdelay (usec) | -1.78111E+00 | +/- | 3.3E-04 |
| Phase delay (usec) | -5.68241047468E+02 | Apriori clockrate (us/s) | 5.9999998E-07 | Resid phdelay (usec) | -4.65802E-06 | +/- | 1.4E-07 |
| Delay rate (us/s) | 9.71509333673E-02 | Apriori rate (us/s) | 9.71505274956E-02 | Resid rate (us/s) | 4.05872E-07 | +/- | 1.8E-09 |
| Total phase (deg) | -298.4 | Apriori accel (us/s/s) | 1.26465352094E-05 | Resid phase (deg) | -144.4 | +/- | 4.4 |

| | RMS | Theor. | Amplitude | 0.283 +/- 0.022 |
|---|---|---|---|---|
| ph/seg (deg) | 80.9 | 29.0 | Search (2048X16) | 0.276 |
| amp/seg (%) | 151.5 | 50.6 | Interp. | 0.000 |
| ph/frq (deg) | 8.9 | 8.9 | Inc. seg. avg. | 0.548 |
| amp/frq (%) | 12.9 | 15.5 | Inc. frq. avg. | 0.281 |

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us
Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite

| | | |
|---|---|---|
| sb window (us) | -4.000 | 4.000 |
| mb window (us) | -0.004 | 0.004 |
| dr window (ns/s) | -0.011 | 0.011 |
| ion window (TEC) | 0.00 | 0.00 |

B: az 293.3 el 38.1 pa 52.2 Y: az 295.9 el 40.3 pa 67.5 u,v (fr/asec) -735.895 1712.850 simultaneous interpolator

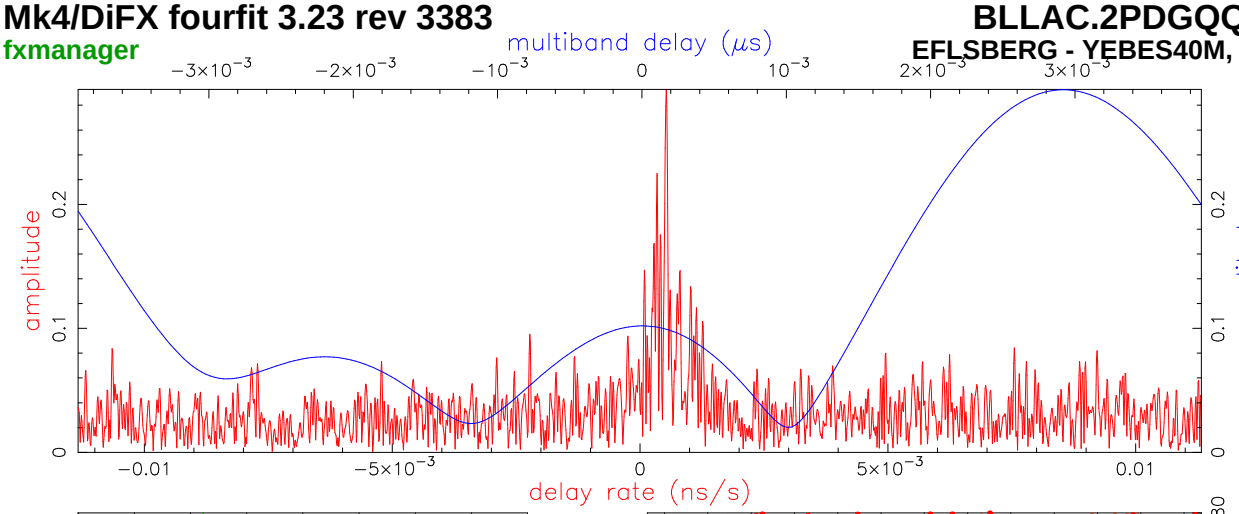
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BY..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BY.W.27.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

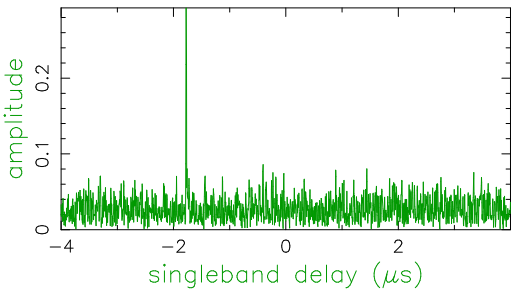
**fxmanager**

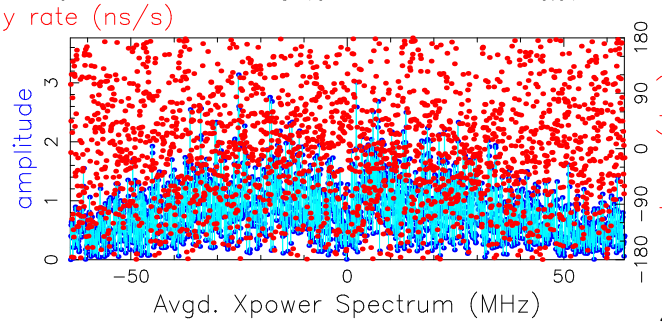
# BLLAC.2PDGQQ, No0001, BY

**EFLSBERG - YEBES40M, fgroup W, pol RL**

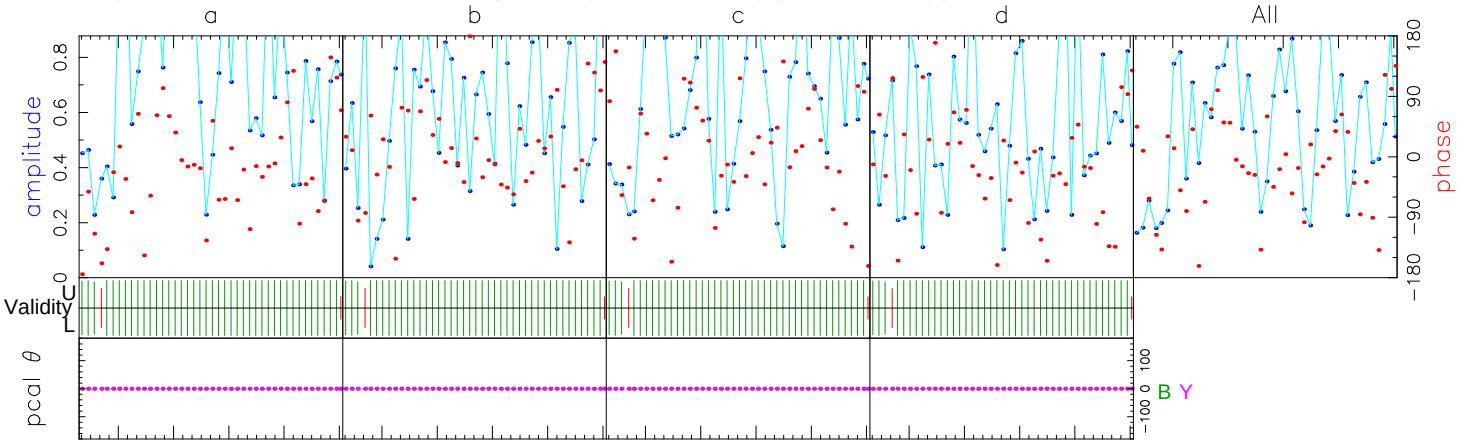



| | |
|---|---|
| Fringe quality | 9 |
| SNR | 13.4 |
| Int time | 279.874 |
| Amp | 0.293 |
| Phase | -184.2 |
| PFD | 8.6e-32 |
| Delays (us) | |
| SBD | -1.773341 |
| MBD | 0.002921 |
| Fringe rate (Hz) | 0.045698 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120017.41 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143740 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |




Amp. and Phase vs. time for each freq., 43 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec




| | | | | | | |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | -12.4 | 3.3 | 10.2 | -19.7 | Phase | -4.2 |
| | 0.4 | 0.3 | 0.3 | 0.2 | Ampl. | 0.3 |
| | 570.7 | 571.1 | 571.1 | 571.0 | Sbd box | 571.0 |
| U/L | 549/549 | 549/549 | 549/549 | 549/549 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Y | 0 | 0 | 0 | 0 | PC freqs | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Y | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| Y | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | -5.70011559235E+02 | Apriori delay (usec) | -5.68241042810E+02 | Resid mbdelay (usec) | 2.92108E-03 | +/- | 8.3E-05 |
| Sband delay (usec) | -5.70014383810E+02 | Apriori clock (usec) | 6.2140091E+01 | Resid sbdelay (usec) | -1.77334E+00 | +/- | 3.2E-04 |
| Phase delay (usec) | -5.68241042947E+02 | Apriori clockrate (us/s) | 5.9999998E-07 | Resid phdelay (usec) | -1.36205E-07 | +/- | 1.4E-07 |
| Delay rate (us/s) | 9.71510580040E-02 | Apriori rate (us/s) | 9.71505274956E-02 | Resid rate (us/s) | 5.30508E-07 | +/- | 1.7E-09 |
| Total phase (deg) | -338.2 | Apriori accel (us/s/s) | 1.26465352094E-05 | Resid phase (deg) | -184.2 | +/- | 4.3 |

| | RMS | Theor. | Amplitude | 0.293 +/- 0.022 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 70.7 | 28.0 | Search (2048X16) | 0.290 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 123.3 | 48.9 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 16.9 | 8.6 | Inc. seg. avg. | 0.500 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 13.7 | 14.9 | Inc. frq. avg. | 0.296 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 Y: az 295.9 el 40.3 pa 67.5 u,v (fr/asec) -735.895 1712.850 simultaneous interpolator

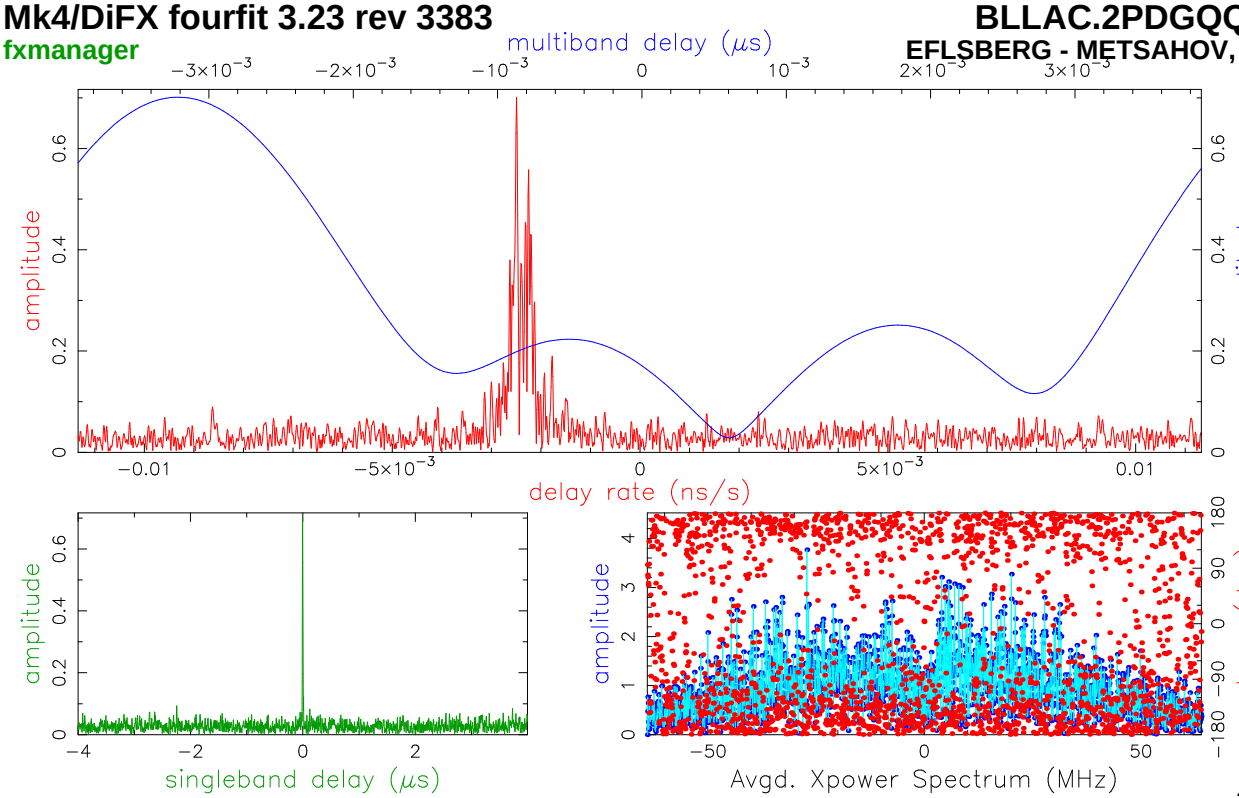
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BY..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BY.W.28.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

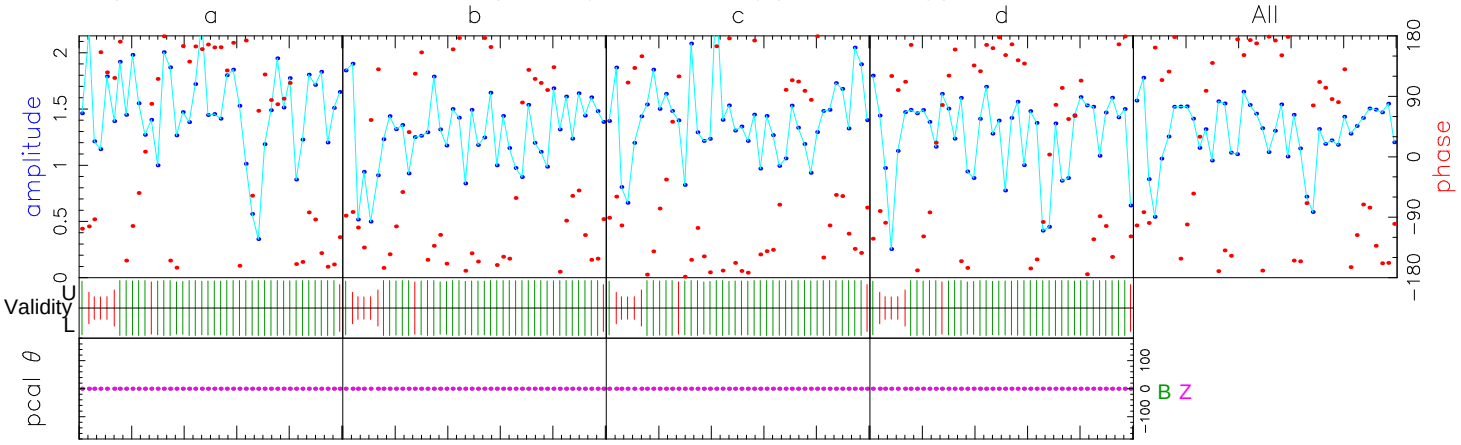
# BLLAC.2PDGQQ, No0001, BZ

**EFLSBERG - METSAHOV, fgroup W, pol LL**




| | |
|---|---|
| Fringe quality | 6 |
| SNR | 32.1 |
| Int time | 279.517 |
| Amp | 0.717 |
| Phase | -168.8 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -0.003583 |
| MBD | -0.003207 |
| Fringe rate (Hz) | -0.214490 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143527 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | a | b | c | d | Freq (MHz) | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | 177.7 | -154.1 | -152.4 | 173.3 | Phase | -168.8 |
| | 0.8 | 0.7 | 0.8 | 0.7 | Ampl. | 0.7 |
| | 1024.0 | 1024.2 | 1024.1 | 1023.7 | Sbd box | 1024.1 |
| U/L | 568/568 | 568/568 | 568/568 | 568/568 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Z | 0 | 0 | 0 | 0 | PC freqs | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Z | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| Z | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 1.42294450138E+03 | Apriori delay (usec) | 1.42294770868E+03 | Resid mbdelay (usec) | -3.20730E-03 | +/- 3.5E-05 |
| Sband delay (usec) | 1.42294412543E+03 | Apriori clock (usec) | -8.1796989E+00 | Resid sbdelay (usec) | -3.58325E-03 | +/- 1.3E-04 |
| Phase delay (usec) | 1.42294770323E+03 | Apriori clockrate (us/s) | 2.0100000E-06 | Resid phdelay (usec) | -5.44489E-06 | +/- 5.8E-08 |
| Delay rate (us/s) | -1.48620815491E-01 | Apriori rate (us/s) | -1.48618325478E-01 | Resid rate (us/s) | -2.49001E-06 | +/- 6.9E-10 |
| Total phase (deg) | 56.4 | Apriori accel (us/s/s) | -1.49300169577E-05 | Resid phase (deg) | -168.8 | +/- 1.8 |

| | RMS | Theor. | Amplitude | 0.717 +/- 0.022 |
|---|---|---|---|---|
| ph/seg (deg) | 65.6 | 11.4 | Search (2048X16) | 0.694 |
| amp/seg (%) | 94.0 | 19.9 | Interp. | 0.000 |
| ph/frq (deg) | 22.2 | 3.6 | Inc. seg. avg. | 1.313 |
| amp/frq (%) | 7.4 | 6.2 | Inc. frq. avg. | 0.742 |

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us
Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite

| | | |
|---|---|---|
| sb window (us) | -4.000 | 4.000 |
| mb window (us) | -0.004 | 0.004 |
| dr window (ns/s) | -0.011 | 0.011 |
| ion window (TEC) | 0.00 | 0.00 |

B: az 293.3 el 38.1 pa 52.2 Z: az 298.4 el 33.3 pa 36.1 u,v (fr/asec) 1132.290 -1710.165 simultaneous interpolator

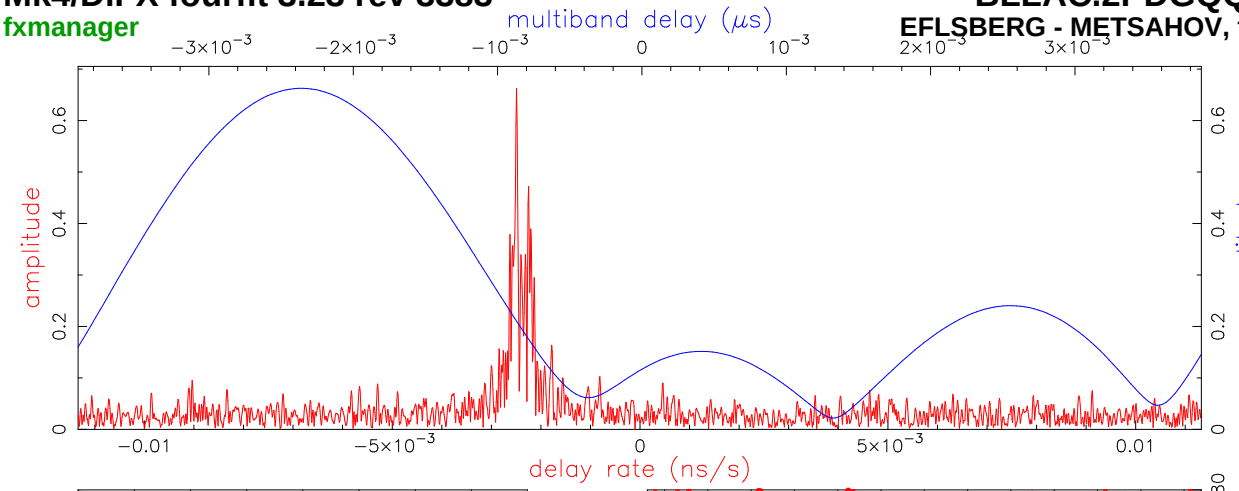
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BZ..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BZ.W.1.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

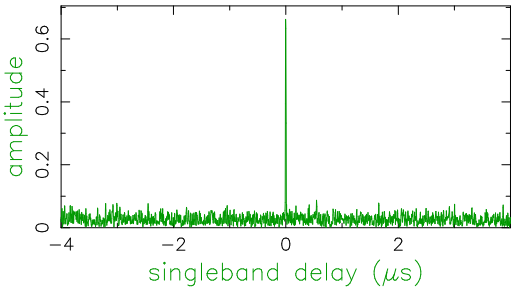
**fxmanager**

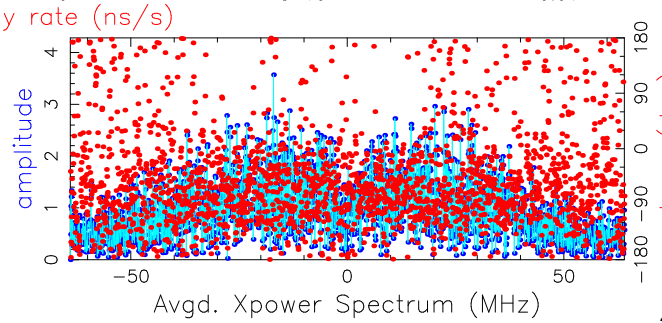
# BLLAC.2PDGQQ, No0001, BZ

**EFLSBERG - METSAHOV, fgroup W, pol RR**

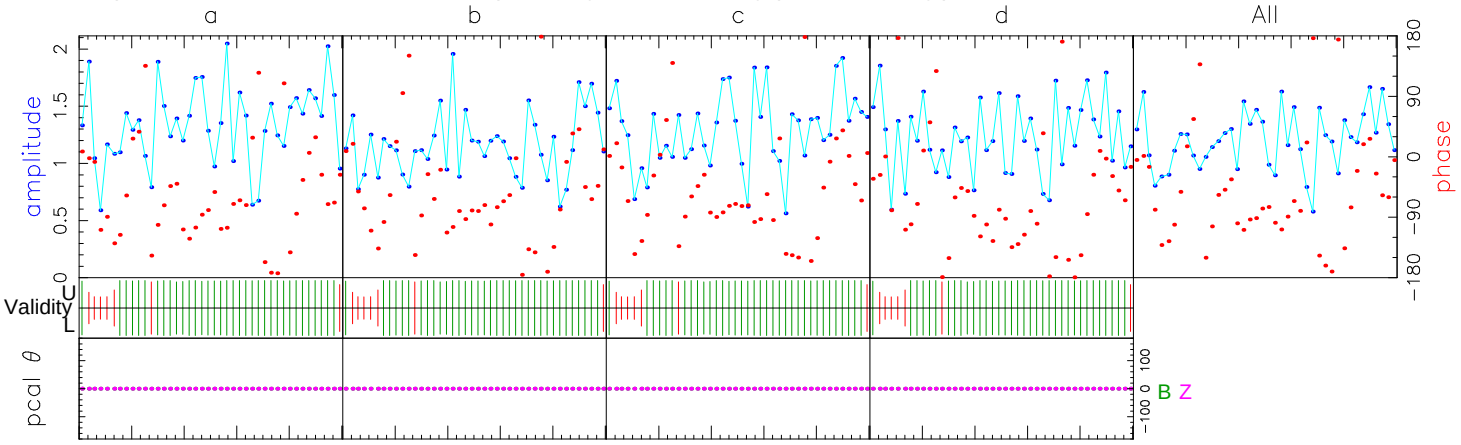



| | |
|---|---|
| Fringe quality | 8 |
| SNR | 31.6 |
| Int time | 279.517 |
| Amp | 0.705 |
| Phase | -72.6 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -0.002294 |
| MBD | -0.002322 |
| Fringe rate (Hz) | -0.214494 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143532 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |




Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
|---|---|---|---|---|---|---|
| | -74.2 | -72.1 | -60.3 | -84.9 | Phase | -72.6 |
| | 0.7 | 0.6 | 0.7 | 0.7 | Ampl. | 0.7 |
| | 1024.4 | 1024.6 | 1024.5 | 1024.1 | Sbd box | 1024.4 |
| U/L | 568/568 | 568/568 | 568/568 | 568/568 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Z | 0 | 0 | 0 | 0 | PC freqs | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Z | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| Z | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 1.42294538635E+03 | Apriori delay (usec) | 1.42294770868E+03 | Resid mbdelay (usec) | -2.32233E-03 | +/- | 3.5E-05 |
| Sband delay (usec) | 1.42294541418E+03 | Apriori clock (usec) | -8.1796989E+00 | Resid sbdelay (usec) | -2.29450E-03 | +/- | 1.4E-04 |
| Phase delay (usec) | 1.42294770634E+03 | Apriori clockrate (us/s) | 2.0100000E-06 | Resid phdelay (usec) | -2.34201E-06 | +/- | 5.8E-08 |
| Delay rate (us/s) | -1.48620815540E-01 | Apriori rate (us/s) | -1.48618325478E-01 | Resid rate (us/s) | -2.49006E-06 | +/- | 7.0E-10 |
| Total phase (deg) | 152.6 | Apriori accel (us/s/s) | -1.49300169577E-05 | Resid phase (deg) | -72.6 | +/- | 1.8 |

| | RMS | Theor. | Amplitude | 0.705 +/- 0.022 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 64.5 | 11.6 | Search (2048X16) | 0.658 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 84.0 | 20.2 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 12.3 | 3.6 | Inc. seg. avg. | 1.216 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 6.5 | 6.3 | Inc. frq. avg. | 0.682 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 Z: az 298.4 el 33.3 pa 36.1 u,v (fr/asec) 1132.290 -1710.165 simultaneous interpolator

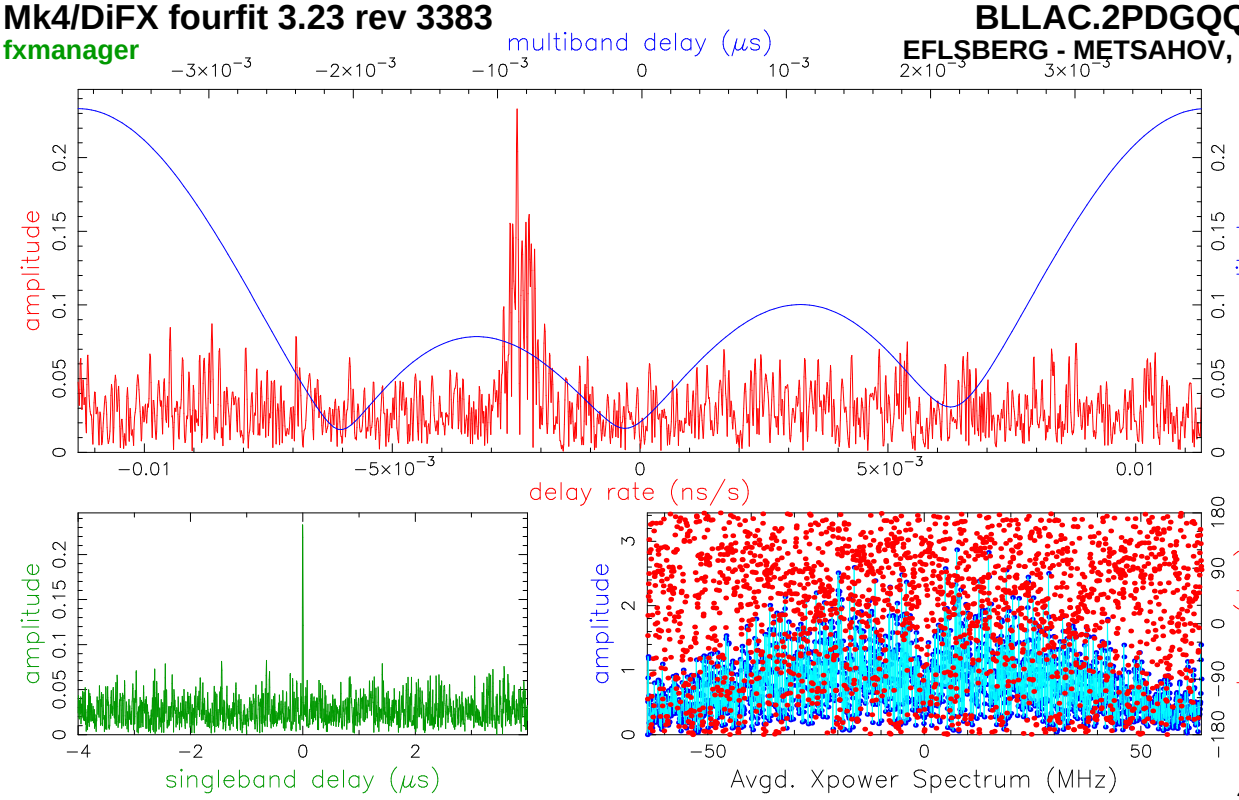
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BZ..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BZ.W.2.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

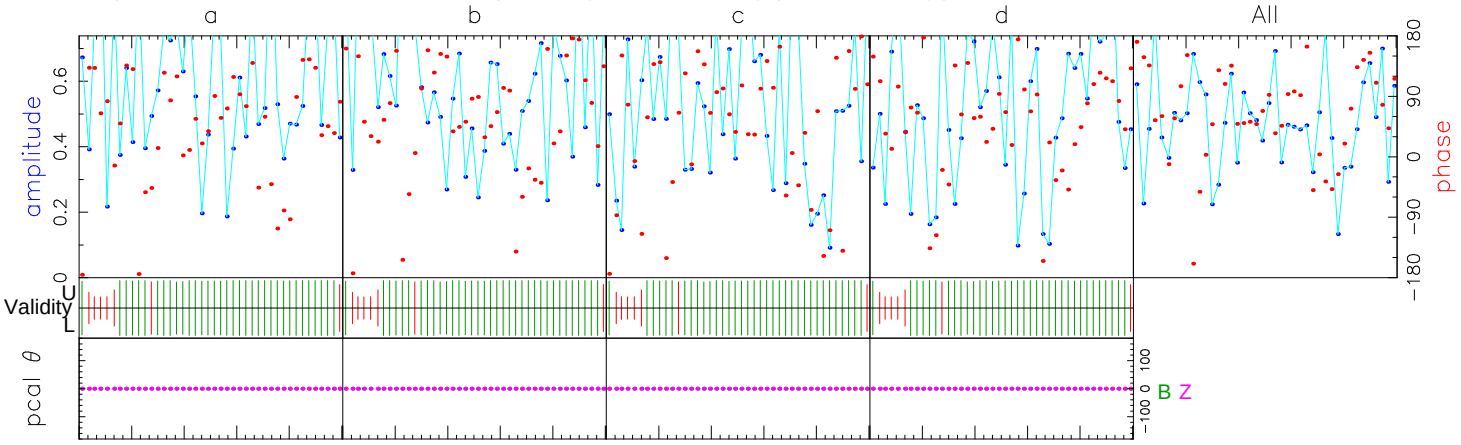
# BLLAC.2PDGQQ, No0001, BZ

**EFLSBERG - METSAHOV, fgroup W, pol LR**




| | |
|---|---|
| Fringe quality | 9 |
| SNR | 11.0 |
| Int time | 279.517 |
| Amp | 0.246 |
| Phase | 81.2 |
| PFD | 2.3e-19 |
| Delays (us) | |
| SBD | -0.002439 |
| MBD | -0.003861 |
| Fringe rate (Hz) | -0.214141 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 |
| | 2023:124:143537 |
| | 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s |
| | +42°16'39.979897" |

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | a | b | c | d | | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | |
| | 78.4 | 84.9 | 97.2 | 69.5 | Phase | 81.2 |
| | 0.2 | 0.2 | 0.2 | 0.3 | Ampl. | 0.2 |
| | 1024.8 | 1024.8 | 1024.3 | 1023.7 | Sbd box | 1024.4 |
| U/L | 568/568 | 568/568 | 568/568 | 568/568 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Z | 0 | 0 | 0 | 0 | PC freqs | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Z | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |
| Z | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 1.42294384723E+03 | Apriori delay (usec) | 1.42294770868E+03 | Resid mbdelay (usec) | -3.86145E-03 | +/- | 1.0E-04 |
| Sband delay (usec) | 1.42294526943E+03 | Apriori clock (usec) | -8.1796989E+00 | Resid sbdelay (usec) | -2.43925E-03 | +/- | 3.9E-04 |
| Phase delay (usec) | 1.42294771130E+03 | Apriori clockrate (us/s) | 2.0100000E-06 | Resid phdelay (usec) | 2.61726E-06 | +/- | 1.7E-07 |
| Delay rate (us/s) | -1.48620811441E-01 | Apriori rate (us/s) | -1.48618325478E-01 | Resid rate (us/s) | -2.48596E-06 | +/- | 2.0E-09 |
| Total phase (deg) | 306.4 | Apriori accel (us/s/s) | -1.49300169577E-05 | Resid phase (deg) | 81.2 | +/- | 5.2 |

| | RMS | Theor. | Amplitude | 0.246 +/- 0.022 | Pcal mode: MANUAL, MANUAL | PC period (AP's) 5, 5 | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 65.5 | 33.1 | Search (2048X16) | 0.226 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | | sb window (us) | -4.000 4.000 |
| amp/seg (%) | 114.5 | 57.8 | Interp. | 0.000 | Bits/sample: 2x2 | SampCntNorm: enabled | mb window (us) | -0.004 0.004 |
| ph/frq (deg) | 14.4 | 10.4 | Inc. seg. avg. | 0.417 | Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us | | dr window (ns/s) | -0.011 0.011 |
| amp/frq (%) | 14.6 | 18.1 | Inc. frq. avg. | 0.238 | Data rate(Mb/s): 2048 | nlags: 1024 t_cohere infinite | ion window (TEC) | 0.00 0.00 |

B: az 293.3 el 38.1 pa 52.2 Z: az 298.4 el 33.3 pa 36.1 u,v (fr/asec) 1132.290 -1710.165 simultaneous interpolator

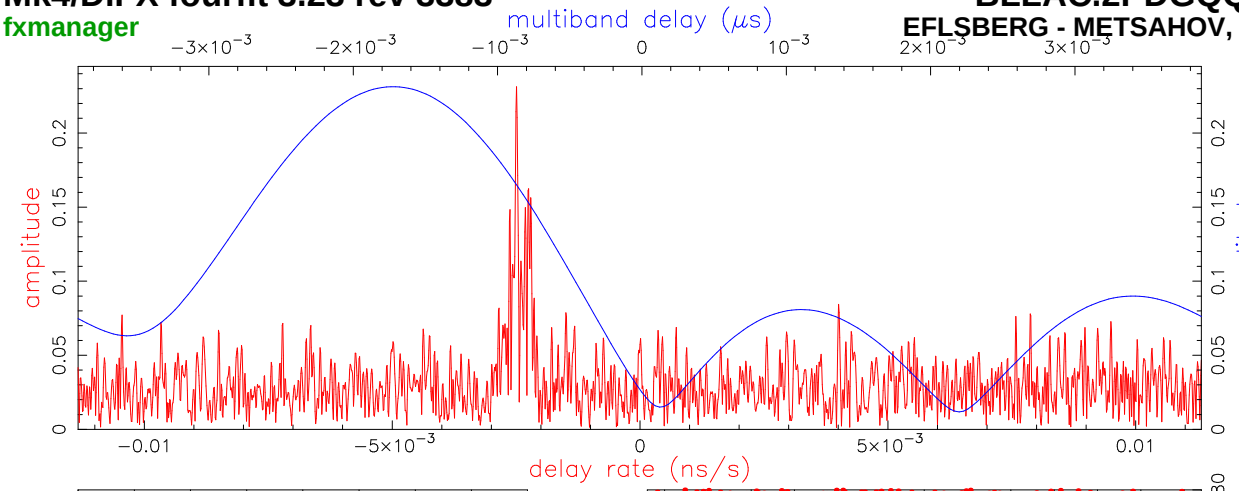
Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BZ..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BZ.W.3.2PDGQQ

# Mk4/DiFX fourfit 3.23 rev 3383

**fxmanager**

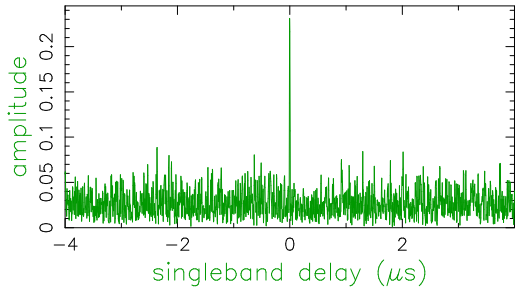
# BLLAC.2PDGQQ, No0001, BZ

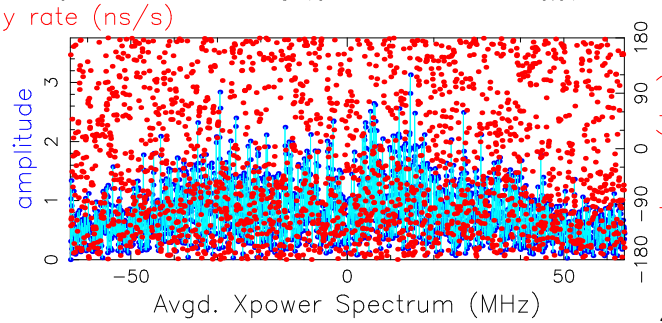
**EFLSBERG - METSAHOV, fgroup W, pol RL**



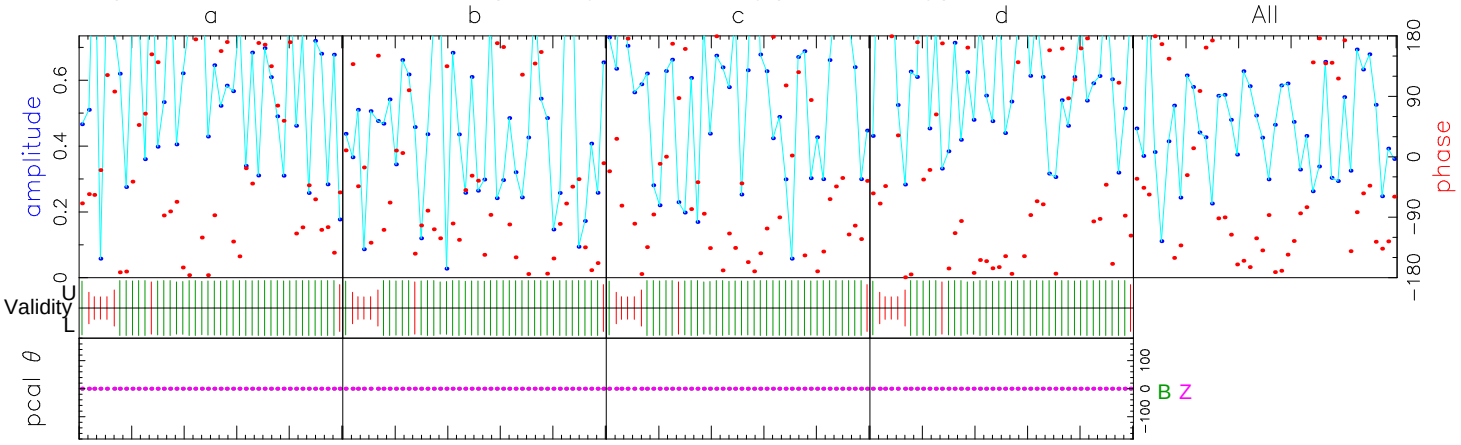

Fringe quality 9

| | |
|---|---|
| SNR | 11.0 |
| Int time | 279.517 |
| Amp | 0.245 |
| Phase | -128.0 |
| PFD | 4.4e-19 |
| Delays (us) | |
| SBD | -0.002434 |
| MBD | -0.001692 |
| Fringe rate (Hz) | -0.214263 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | f231a |
| Exper # | 1234 |
| Yr:day | 2023:124 |
| Start | 120000.00 |
| Stop | 120500.03 |
| FRT | 120230.00 |
| Corr/FF/build | 2023:124:143316 2023:124:143542 2021:298:074129 |
| RA & Dec (J2000) | 22h02m43.291370s +42°16'39.979897" |




Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec




| | a | b | c | d | | All |
|---|---|---|---|---|---|---|
| | 86076.00 | 86204.00 | 86332.00 | 86460.00 | Freq (MHz) | All |
| | -140.9 | -106.1 | -118.1 | -141.5 | Phase | -128.0 |
| | 0.2 | 0.2 | 0.3 | 0.3 | Ampl. | 0.2 |
| | 1024.7 | 369.1 | 1024.2 | 1024.2 | Sbd box | 1024.4 |
| U/L | 568/568 | 568/568 | 568/568 | 568/568 | APs used | |
| B | 0 | 0 | 0 | 0 | PC freqs | |
| Z | 0 | 0 | 0 | 0 | PC freqs | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| B:Z | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| B | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Z | 1000 | 1000 | 1000 | 1000 | | |
| B | W00UR,W00LR | W01UR,W01LR | W02UR,W02LR | W03UR,W03LR | Chan ids Tracks | |
| Z | W00UL,W00LL | W01UL,W01LL | W02UL,W02LL | W03UL,W03LL | Chan ids Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec) (SBD) | 1.42294601626E+03 | Apriori delay (usec) | 1.42294770868E+03 | Resid mbdelay (usec) | -1.69242E-03 | +/- | 1.0E-04 |
| Sband delay (usec) | 1.42294527493E+03 | Apriori clock (usec) | -8.1796989E+00 | Resid sbdelay (usec) | -2.43375E-03 | +/- | 3.9E-04 |
| Phase delay (usec) | 1.42294770455E+03 | Apriori clockrate (us/s) | 2.0100000E-06 | Resid phdelay (usec) | -4.12922E-06 | +/- | 1.7E-07 |
| Delay rate (us/s) | -1.48620812862E-01 | Apriori rate (us/s) | -1.48618325478E-01 | Resid rate (us/s) | -2.48738E-06 | +/- | 2.0E-09 |
| Total phase (deg) | 97.2 | Apriori accel (us/s/s) | -1.49300169577E-05 | Resid phase (deg) | -128.0 | +/- | 5.2 |

| | RMS | Theor. | Amplitude | 0.245 +/- 0.022 |
|---|---|---|---|---|
| ph/seg (deg) | 63.9 | 33.3 | Search (2048X16) | 0.228 |
| amp/seg (%) | 108.1 | 58.1 | Interp. | 0.000 |
| ph/frq (deg) | 21.5 | 10.4 | Inc. seg. avg. | 0.398 |
| amp/frq (%) | 14.5 | 18.2 | Inc. frq. avg. | 0.240 |

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us
Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite

| | | |
|---|---|---|
| sb window (us) | -4.000 | 4.000 |
| mb window (us) | -0.004 | 0.004 |
| dr window (ns/s) | -0.011 | 0.011 |
| ion window (TEC) | 0.00 | 0.00 |

B: az 293.3 el 38.1 pa 52.2 Z: az 298.4 el 33.3 pa 36.1 u,v (fr/asec) 1132.290 -1710.165 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f231a/FRINGE/1234/No0001/BZ..2PDGQQ Output file: /Exps/f231a/FRINGE/1234/No0001/BZ.W.4.2PDGQQ