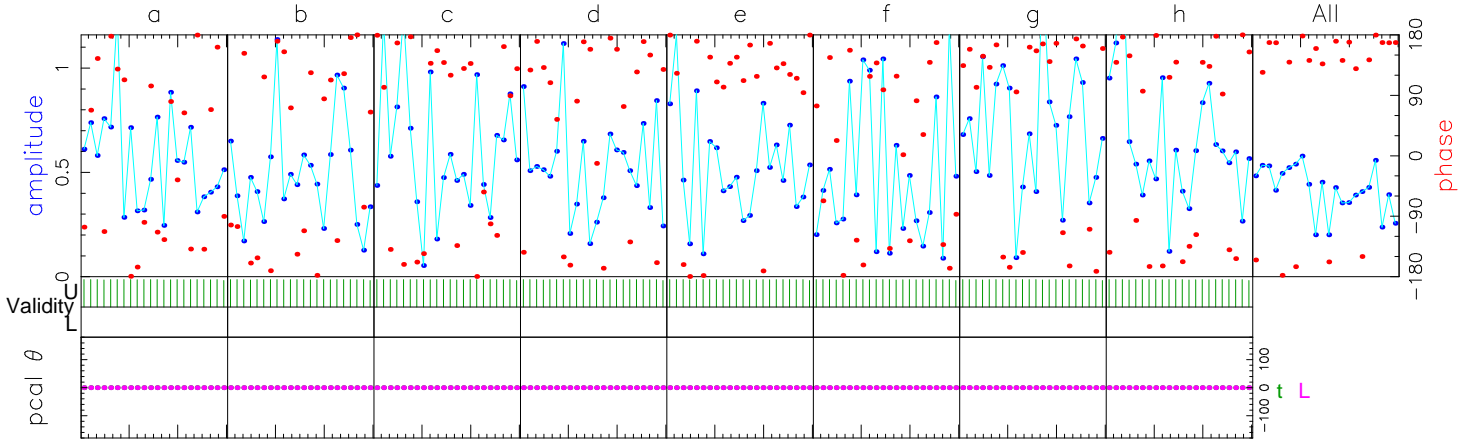


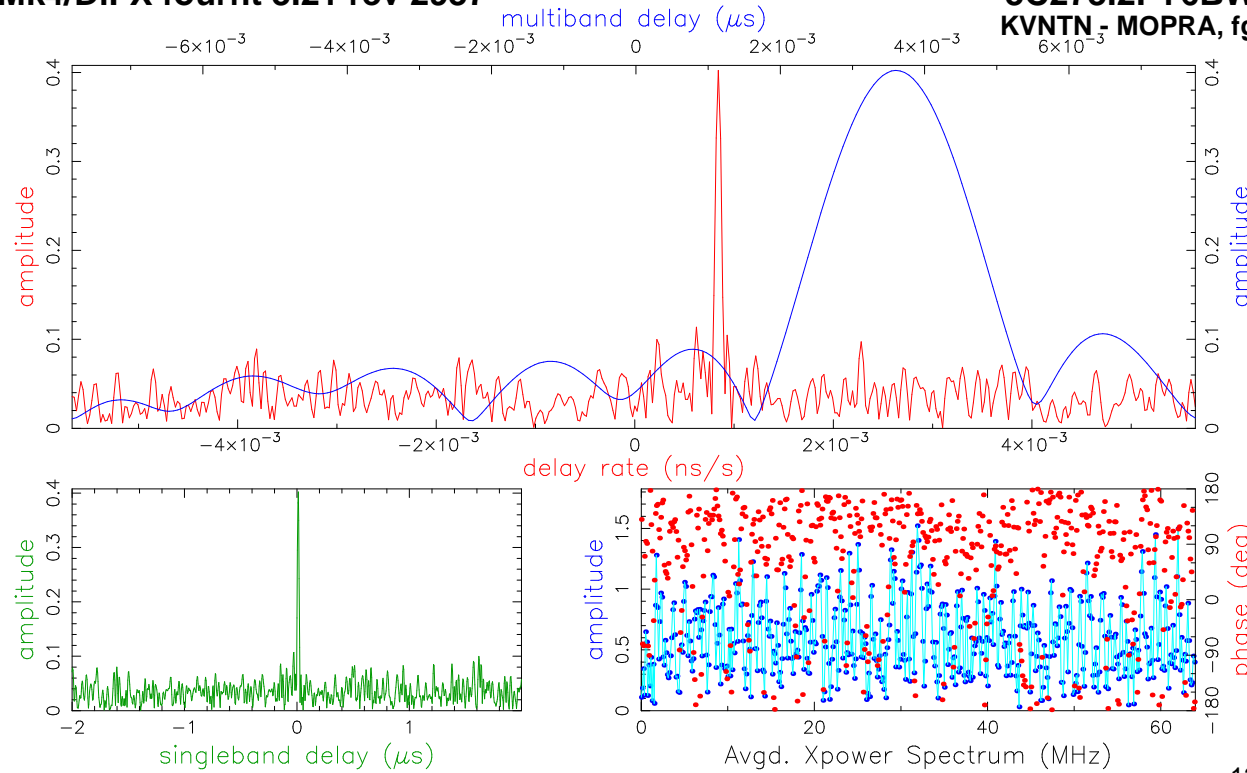
Fringe quality 9
 SNR 14.0
 Int time 179.151
 Amp 0.386
 Phase 165.5
 PFD 3.6e-36
 Delays (us)
 SBD -0.000665
 MBD -0.007821
 Fringe rate (Hz) 0.072636
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.024
 Exp. c221a
 Exper # 16383
 Yr:day 2022:091
 Start 120001.00
 Stop 120301.22
 FRT 120131.00
 Corr/FF/build 2022:306:092015
 2022:306:092327
 2021:041:141600
 RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

Amp. and Phase vs. time for each freq., 22 segs, 8 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.9	177.5	163.5	164.4	145.6	161.1	168.5	174.2	Phase	165.5
	0.2	0.3	0.4	0.3	0.5	0.3	0.6	0.5	Ampl.	0.4
	116.4	512.8	512.4	512.6	513.1	514.1	512.9	512.6	Sbd box	512.8
U/L	176/0	176/0	176/0	176/0	176/0	176/0	176/0	176/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.03827563478E+03		Apriori delay (usec)		-4.03826781336E+03		Resid mbdelay (usec)		-7.82142E-03	+/- 7.7E-05
Sband delay (usec)	-4.03826847811E+03		Apriori clock (usec)		4.3750505E+00		Resid sbdelay (usec)		-6.64750E-04	+/- 6.1E-04
Phase delay (usec)	-4.03826780802E+03		Apriori clockrate (us/s)		-2.2100003E-07		Resid phdelay (usec)		5.33648E-06	+/- 2.6E-07
Delay rate (us/s)	3.78793274565E-01		Apriori rate (us/s)		3.78792431329E-01		Resid rate (us/s)		8.43236E-07	+/- 2.5E-09
Total phase (deg)	6.1		Apriori accel (us/s/s)		2.55396558707E-05		Resid phase (deg)		165.5	+/- 8.2

ph/seg (deg) 24.0 19.2 Search (512X32) 0.378 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.5 33.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 11.0 11.6 Inc. seg. avg. 0.400 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.0 20.2 Inc. frq. avg. 0.383 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 512 t_cohere infinite dr window (ns/s) -0.006 0.006
 t: az 112.0 el 32.8 pa -50.9 L: az 44.7 el 47.1 pa -143.1 u,v (fr/asec) -2155.003 9498.037 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL...2FY6BW Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL.W.2.2FY

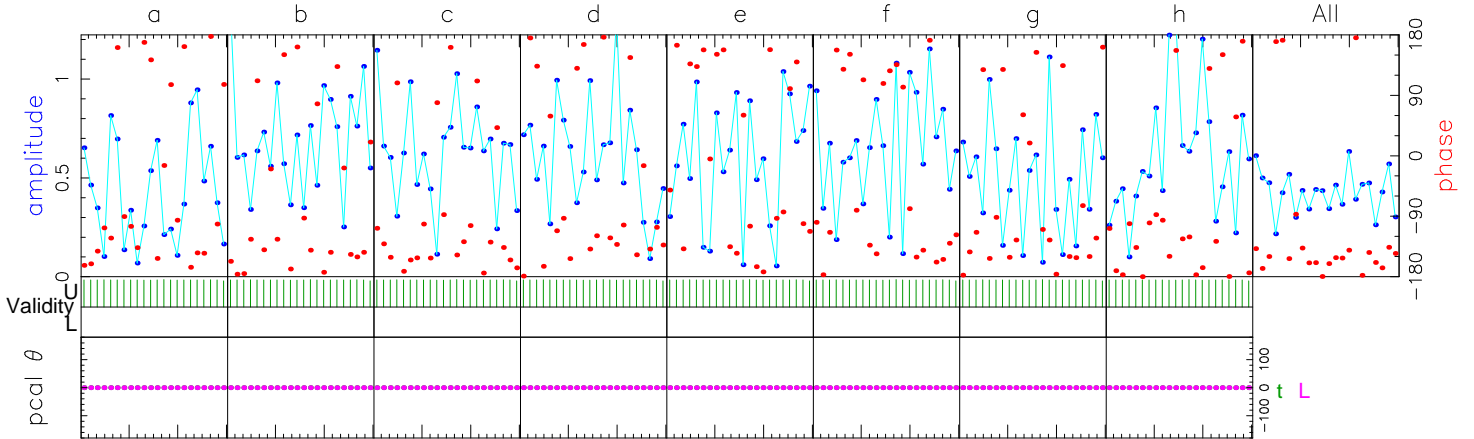


Fringe quality 9

SNR 14.7
Int time 177.363
Amp 0.408
Phase -155.2
PFD 1.5e-40
Delays (us)
SBD 0.010832
MBD 0.003602
Fringe rate (Hz) 0.072898
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.024

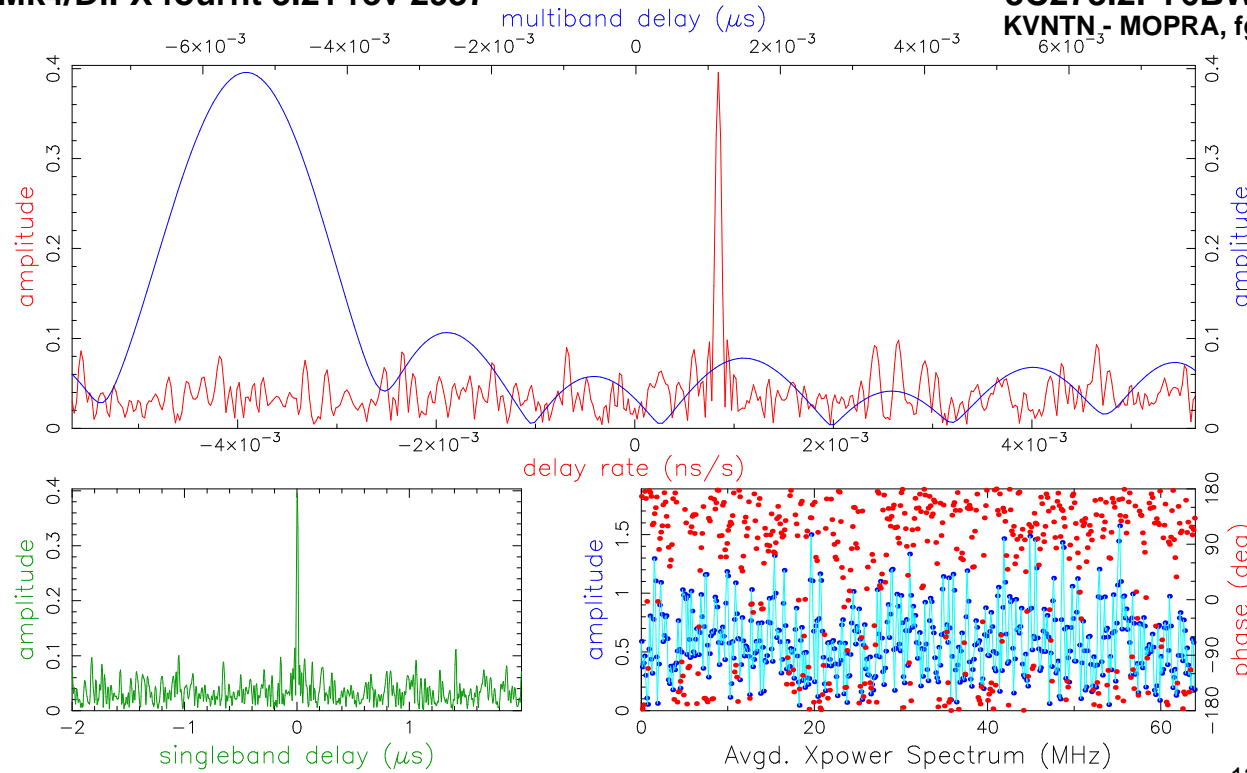
Exp. c221a
Exper # 16383
Yr:day 2022:091
Start 120001.00
Stop 120301.22
FRT 120131.00
Corr/FF/build
2022:306:092015
2022:306:092328
2021:041:141600
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

Amp. and Phase vs. time for each freq., 22 segs, 8 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	176/0	176/0	176/0	176/0	176/0	176/0	176/0	176/0		
t	0	0	0	0	0	0	0	0	Phase	-155.2
L	0	0	0	0	0	0	0	0	Ampl.	0.4
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	515.8
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
L	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.03826421150E+03		Apriori delay (usec)		-4.03826781336E+03		Resid mbdelay (usec)		3.60186E-03	+/- 7.4E-05
Sband delay (usec)	-4.03825698161E+03		Apriori clock (usec)		4.3750505E+00		Resid sbdelay (usec)		1.08317E-02	+/- 5.9E-04
Phase delay (usec)	-4.03826781837E+03		Apriori clockrate (us/s)		-2.2100003E-07		Resid phdelay (usec)		-5.00629E-06	+/- 2.5E-07
Delay rate (us/s)	3.78793277608E-01		Apriori rate (us/s)		3.78792431329E-01		Resid rate (us/s)		8.46279E-07	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55396558707E-05		Resid phase (deg)		-155.2	+/- 7.8

ph/seg (deg) 22.1 18.3 Theor. Amplitude 0.408 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 26.6 31.9 Search (512X32) 0.393 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 8.1 11.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.6 19.2 Inc. seg. avg. 0.411 Sample rate(MISamp/s): 128 dr window (ns/s) -0.006 0.006
 t: az 112.0 el 32.8 pa -50.9 L: az 44.7 el 47.1 pa -143.1 u,v (fr/asec) -2155.003 9498.037 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL...2FY6BW Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL.W.5.2FY simultaneous interpolator

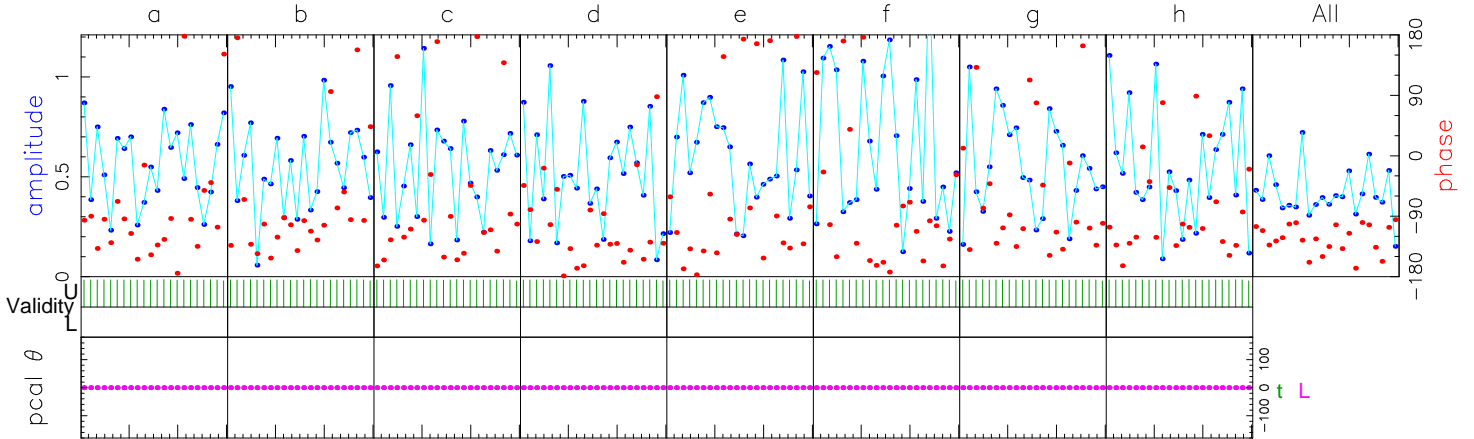


Fringe quality 9

SNR 14.6
Int time 177.363
Amp 0.404
Phase -122.5
PFD 1.4e-39
Delays (us)
SBD 0.002688
MBD -0.005395
Fringe rate (Hz) 0.072385
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.024

Exp. c221a
Exper # 16383
Yr:day 2022:091
Start 120001.00
Stop 120301.22
FRT 120131.00
Corr/FF/build
2022:306:092015
2022:306:092330
2021:041:141600
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

Amp. and Phase vs. time for each freq., 22 segs, 8 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-115.7	-114.8	-129.1	-121.8	-136.5	-128.4	-122.6	-109.1	Phase	-122.5
	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	Ampl.	0.4
	513.5	514.2	514.1	513.3	513.4	513.5	514.3	513.4	Sbd box	513.7
U/L	176/0	176/0	176/0	176/0	176/0	176/0	176/0	176/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.03825758300E+03		Apriori delay (usec)		-4.03826781336E+03		Resid mbdelay (usec)		-5.39464E-03	+/- 7.4E-05
Sband delay (usec)	-4.03826512586E+03		Apriori clock (usec)		4.3750505E+00		Resid sbdelay (usec)		2.68750E-03	+/- 5.9E-04
Phase delay (usec)	-4.03826781731E+03		Apriori clockrate (us/s)		-2.2100003E-07		Resid phdelay (usec)		-3.95074E-06	+/- 2.5E-07
Delay rate (us/s)	3.78793271648E-01		Apriori rate (us/s)		3.78792431329E-01		Resid rate (us/s)		8.40318E-07	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55396558707E-05		Resid phase (deg)		-122.5	+/- 7.9

ph/seg (deg) 21.0 18.4
amp/seg (%) 30.1 32.2
ph/frq (deg) 9.6 11.1
amp/frq (%) 7.2 19.4

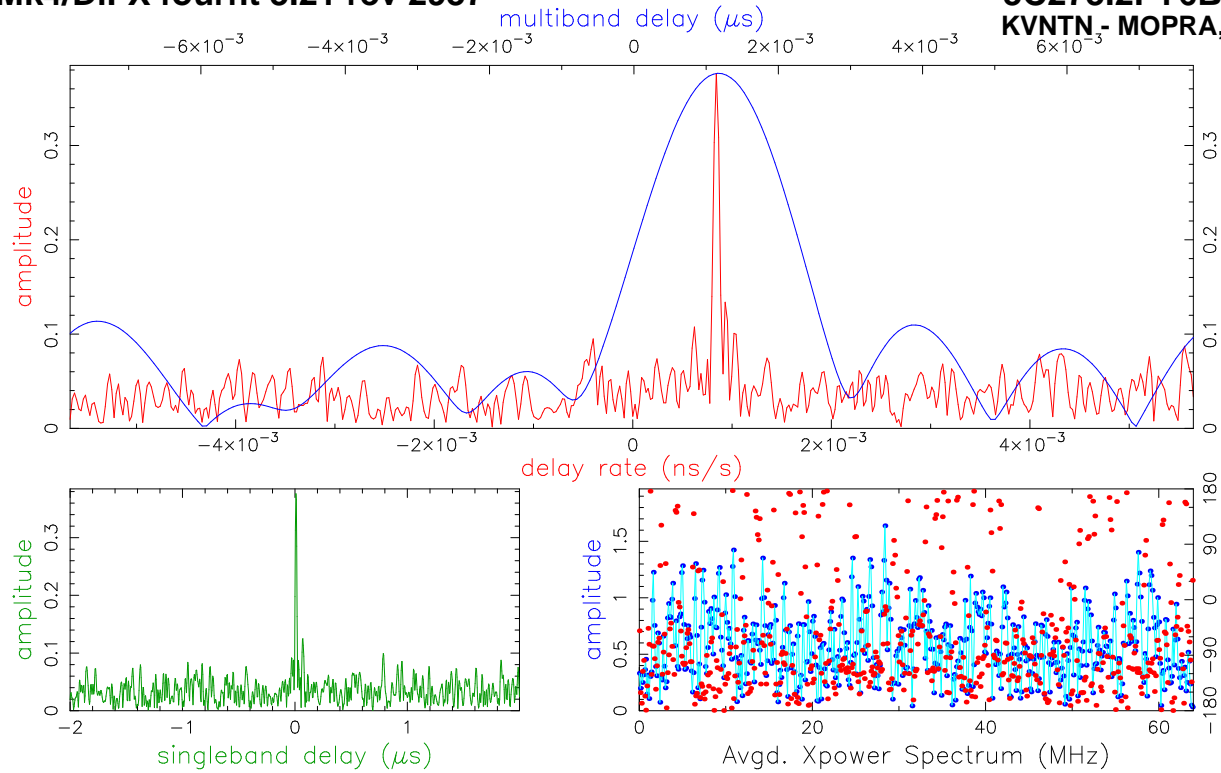
RMS Theor. Amplitude 0.404 +/- 0.028
Search (512X32) 0.391
Interp. 0.000
Inc. seg. avg. 0.403
Inc. frq. avg. 0.397

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 512 t_cohere infinite

sb window (us) -2.000 2.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.006 0.006
ion window (TEC) 0.00 0.00

t: az 112.0 el 32.8 pa -50.9 L: az 44.7 el 47.1 pa -143.1 u,v (fr/asec) -2155.003 9498.037 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL...2FY6BW Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL.W.8.2FY

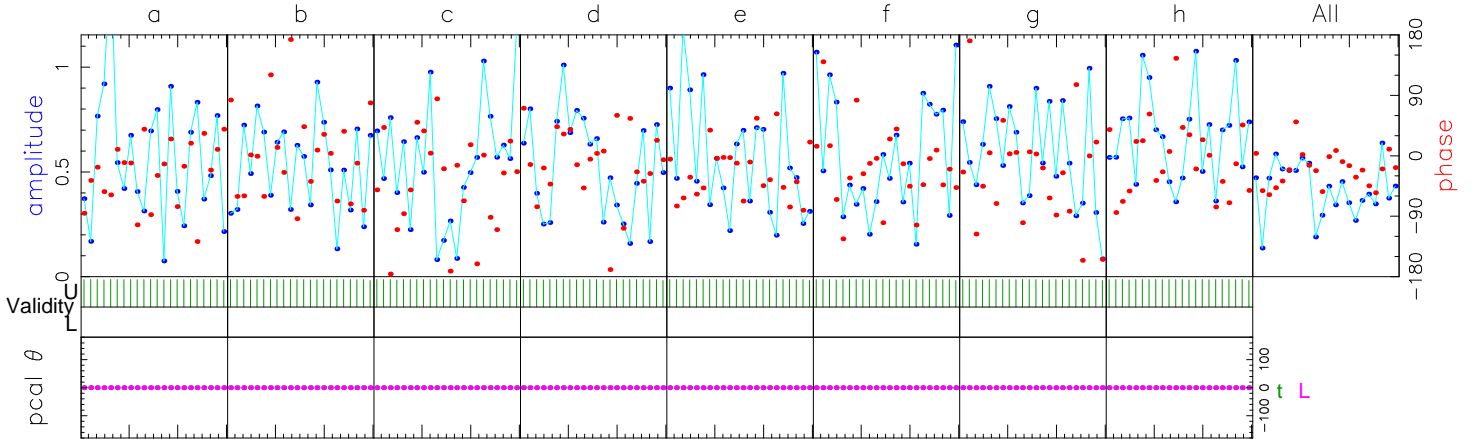


Fringe quality 9

SNR 14.0
Int time 179.151
Amp 0.385
Phase -18.8
PFD 8.1e-36
Delays (us)
SBD 0.009228
MBD 0.001148
Fringe rate (Hz) 0.072423
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.024

Exp. c221a
Exper # 16383
Yr:day 2022:091
Start 120001.00
Stop 120301.22
FRT 120131.00
Corr/FF/build 2022:306:092015
2022:306:092332
2021:041:141600
RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

Amp. and Phase vs. time for each freq., 22 segs, 8 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.2	-5.8	-30.2	1.4	-32.0	-18.5	-26.4	-10.1	Phase	-18.8
	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.5	Ampl.	0.4
	514.4	516.3	320.9	515.1	516.1	515.4	514.6	515.0	Sbd box	515.4
U/L	176/0	176/0	176/0	176/0	176/0	176/0	176/0	176/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.03825104034E+03		Apriori delay (usec)		-4.03826781336E+03		Resid mbdelay (usec)		1.14802E-03	+/- 7.8E-05
Sband delay (usec)	-4.03825858511E+03		Apriori clock (usec)		4.3750505E+00		Resid sbdelay (usec)		9.22825E-03	+/- 6.2E-04
Phase delay (usec)	-4.03826781397E+03		Apriori clockrate (us/s)		-2.2100003E-07		Resid phdelay (usec)		-6.07415E-07	+/- 2.6E-07
Delay rate (us/s)	3.78793272094E-01		Apriori rate (us/s)		3.78792431329E-01		Resid rate (us/s)		8.40765E-07	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55396558707E-05		Resid phase (deg)		-18.8	+/- 8.2

ph/seg (deg) 26.0 19.3 Amplitude 0.385 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 33.8 33.6 Search (512X32) 0.371 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 13.7 11.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.5 20.3 Inc. seg. avg. 0.399 Sample rate(MISamp/s): 128 Data rate (Mb/s): 2048 nlags: 512 t_cohere infinite dr window (ns/s) -0.006 0.006
 t: az 112.0 el 32.8 pa -50.9 L: az 44.7 el 47.1 pa -143.1 u,v (fr/asec) -2155.003 9498.037 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL...2FY6BW Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/tL.W.11.2F