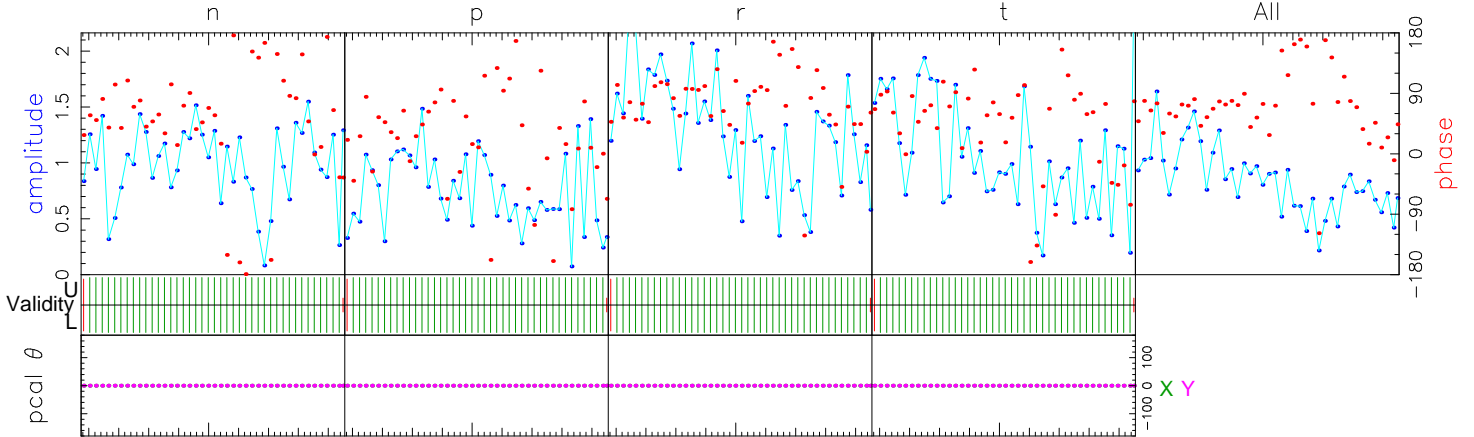


Fringe quality 8

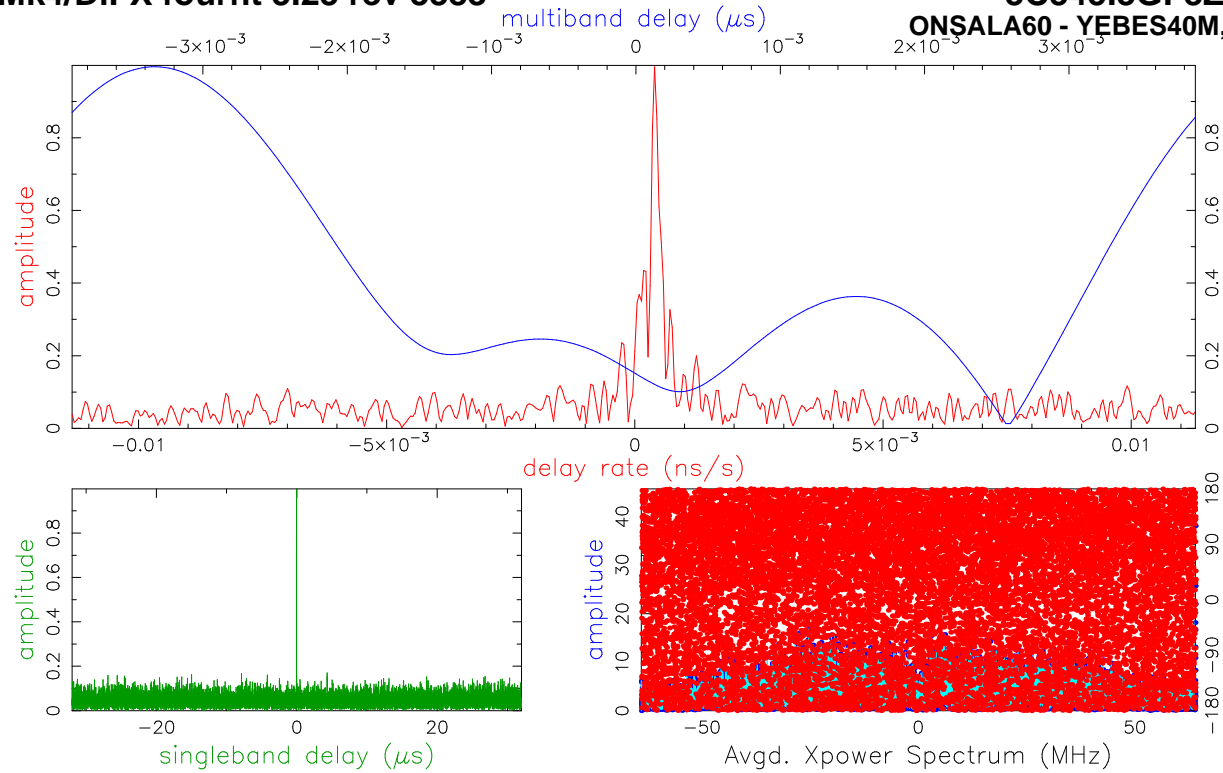
SNR 18.3
Int time 86.403
Amp 0.721
Phase -110.4
PFD 0.0e+00
Delays (us)
SBD -0.005490
MBD 0.002966
Fringe rate (Hz)
0.034032
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f242a
Exper # 1234
Yr:day 2024:284
Start 131517.41
Stop 131643.94
FRT 131730.00
Corr/FF/build
2024:285:104923
2024:285:105017
2023:348:201045
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	169/169	169/169	169/169	169/169		
X	0	0	0	0	APs used	
Y	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	PC phase	
X	1000	1000	1000	1000	ManI PC	
Y	1000	1000	1000	1000	PC amp	
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
Y	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
Group delay (usec) (SBD)	8.61357300063E+02	8.61362149252E+02	8.61362147006E+02	8.61362147006E+02	Resid mbdelay (usec)	2.96556E-03 +/- 6.1E-05
Sband delay (usec)	8.61356657256E+02	8.61362149252E+02	8.61362147006E+02	8.61362147006E+02	Resid sbdelay (usec)	-5.48975E-03 +/- 2.4E-04
Phase delay (usec)	8.61362149252E+02	8.61362149252E+02	8.61362147006E+02	8.61362147006E+02	Resid phdelay (usec)	2.24570E-06 +/- 1.0E-07
Delay rate (us/s)	-3.00640705627E-01	-3.00640705627E-01	-3.00641100707E-01	-3.00641100707E-01	Resid rate (us/s)	3.95080E-07 +/- 4.0E-09
Total phase (deg)		13.2			Resid phase (deg)	-110.4 +/- 3.1
ph/seg (deg)	50.4	20.5	Search (512X16)	0.687	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	43.6	35.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	24.4	6.3	Inc. seg. avg.	0.796	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	32.3	10.9	Inc. frq. avg.	0.708	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s) -0.011 0.011
X: az 133.5 el 67.8 pa -29.9	Y: az 79.7 el 62.7 pa -76.9	u,v (fr/asec) 2261.313 1943.726			Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite
Control file: cf_1234_gmva	Input file: /Exps/f242a/FRINGE/1234/No0006/XY..3GF8Z8	Output file: /Exps/f242a/FRINGE/1234/No0006/XY.W.10.3GF8Z8				ion window (TEC) 0.00 0.00

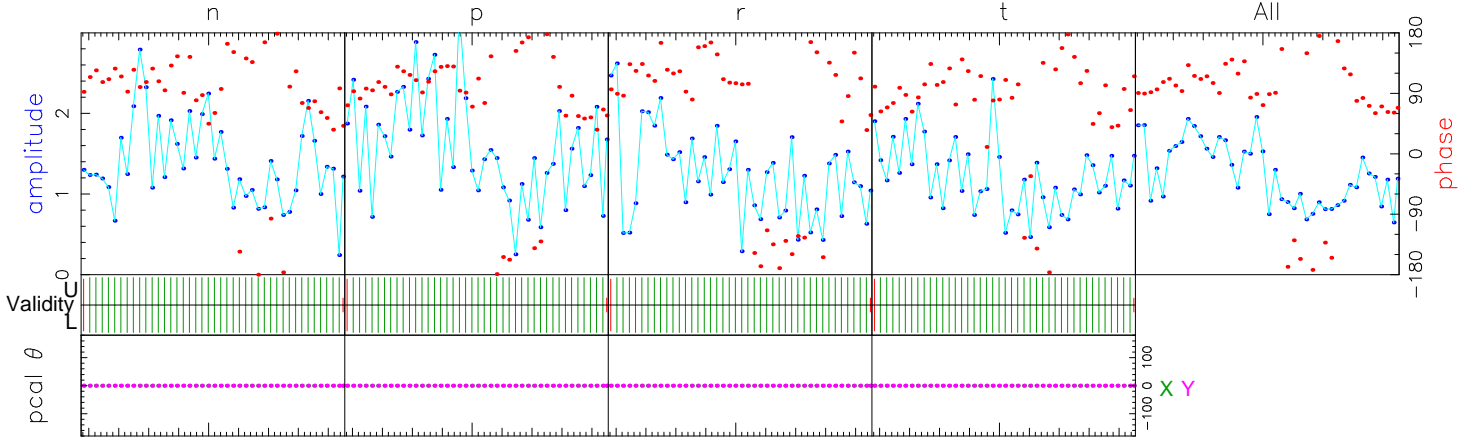


Fringe quality 8

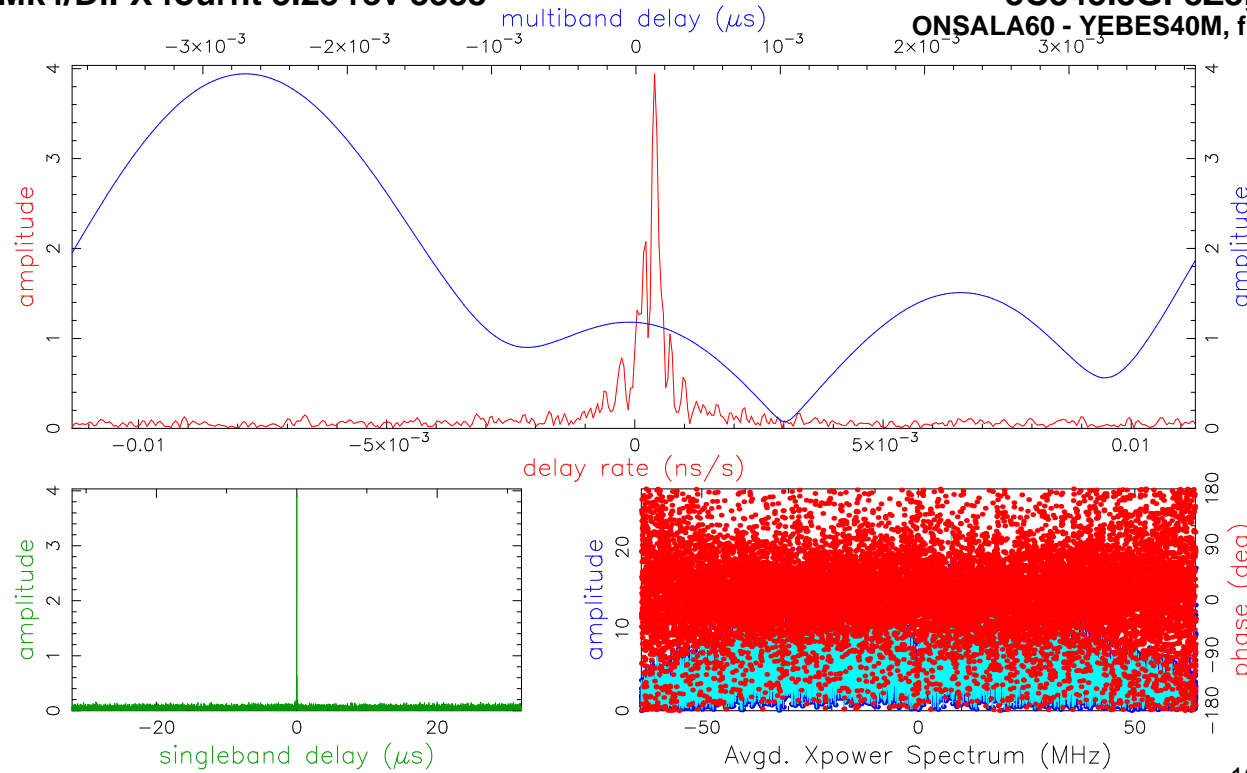
SNR 25.4
Int time 86.403
Amp 0.999
Phase -250.0
PFD 0.0e+00
Delays (us)
SBD -0.034736
MBD -0.003315
Fringe rate (Hz) 0.034375
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. f242a
Exper # 1234
Yr:day 2024:284
Start 131517.41
Stop 131643.94
FRT 131730.00
Corr/FF/build
2024:285:104923
2024:285:105030
2023:348:201045
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec

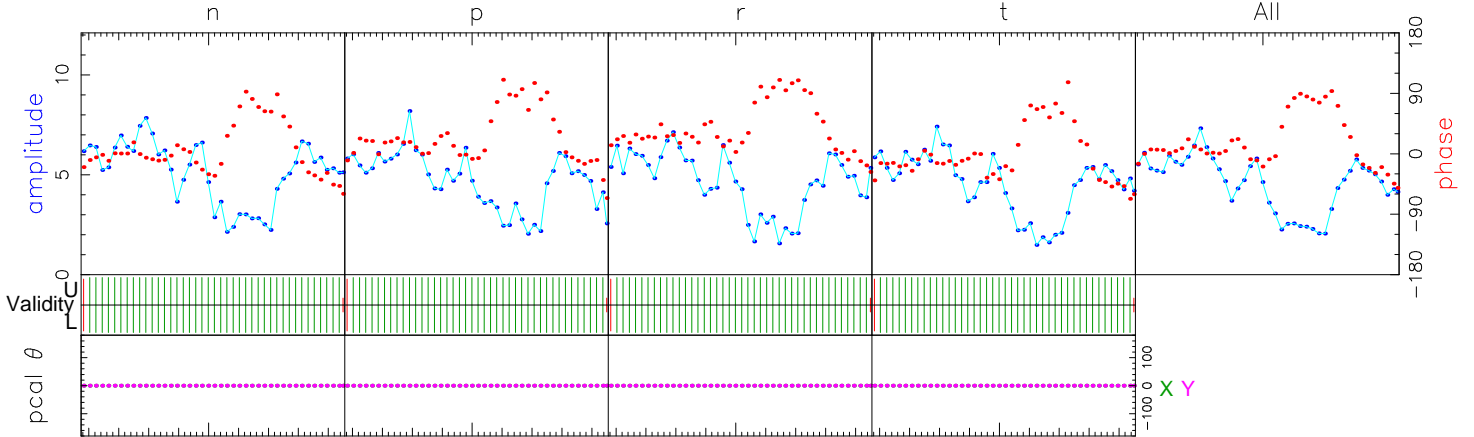


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	107.4	107.4	132.2	95.7	Phase	110.0
	1.1	1.2	0.9	0.9	Ampl.	1.0
	8184.2	8184.3	8184.1	8183.6	Sbd box	8184.1
U/L	169/169	169/169	169/169	169/169	APs used	
X	0	0	0	0	PC freqs	
Y	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000		
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
Y	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	
Group delay (usec) (SBD)	8.61327582469E+02		Apriori delay (usec)	8.61362147006E+02	Resid mbdelay (usec)	-3.31454E-03 +/- 4.4E-05
Sband delay (usec)	8.61327411006E+02		Apriori clock (usec)	1.3976782E+02	Resid sbdelay (usec)	-3.47360E-02 +/- 1.7E-04
Phase delay (usec)	8.61362150553E+02		Apriori clockrate (us/s)	1.6578920E-06	Resid phdelay (usec)	3.54655E-06 +/- 7.3E-08
Delay rate (us/s)	-3.00640701653E-01		Apriori rate (us/s)	-3.00641100707E-01	Resid rate (us/s)	3.99054E-07 +/- 2.9E-09
Total phase (deg)		-126.5	Apriori accel (us/s/s)	1.00813916459E-05	Resid phase (deg)	-250.0 +/- 2.3
RMS	Theor.	Amplitude	0.999 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	46.5	14.8	Search (512X16)	0.993	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
amp/seg (%)	46.3	25.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	18.8	4.5	Inc. seg. avg.	1.215	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	mb window (us) -0.004 0.004
amp/frq (%)	14.0	7.9	Inc. frq. avg.	1.017	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite
X: az 133.5 el 67.8 pa -29.9	Y: az 79.7 el 62.7 pa -76.9	u, v (fr/asec) 2261.313 1943.726				ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva	Input file: /Exps/f242a/FRINGE/1234/No0006/XY..3GF8Z8	Output file: /Exps/f242a/FRINGE/1234/No0006/XY.W.12.3GF8Z8				simultaneous interpolator

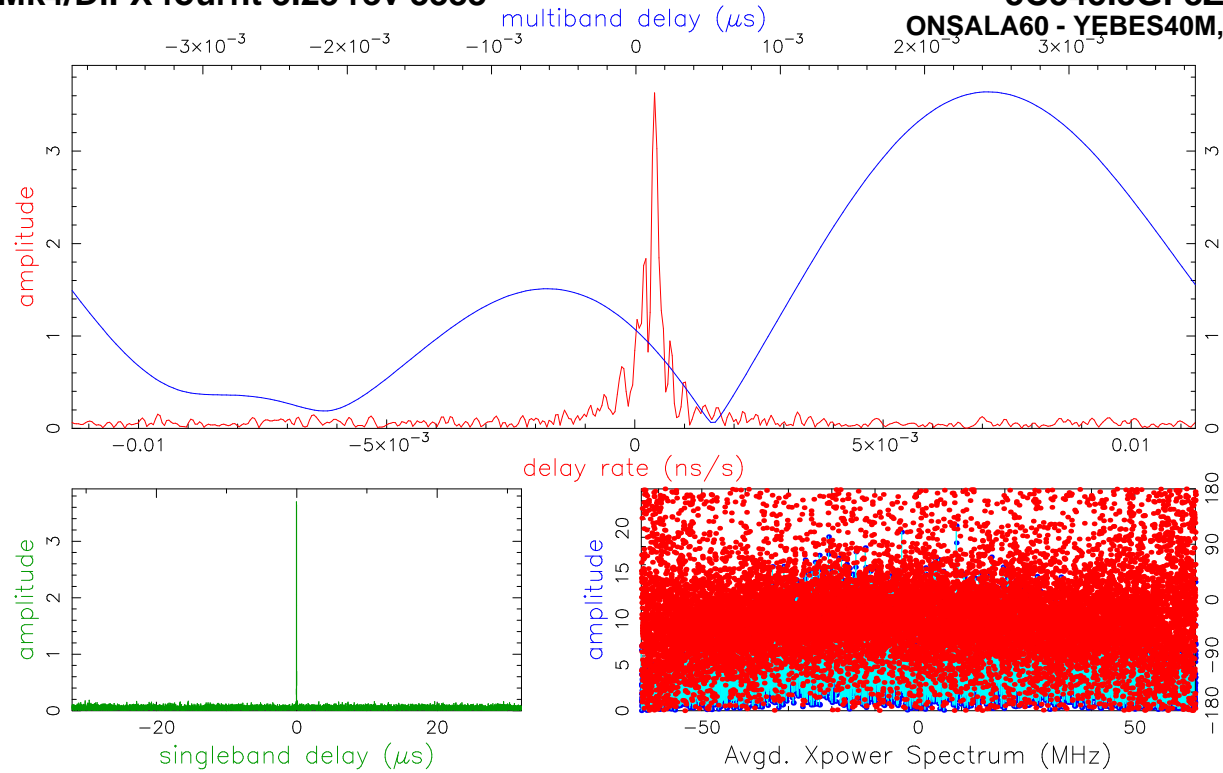


Fringe quality 5
SNR 102.5
Int time 86.403
Amp 4.036
Phase 8.0
PFD 0.0e+00
Delays (us)
SBD -0.002746
MBD -0.002674
Fringe rate (Hz) 0.033981
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. f242a
Exper # 1234
Yr:day 2024:284
Start 131517.41
Stop 131643.94
FRT 131730.00
Corr/FF/build
2024:285:104923
2024:285:104950
2023:348:201045
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec

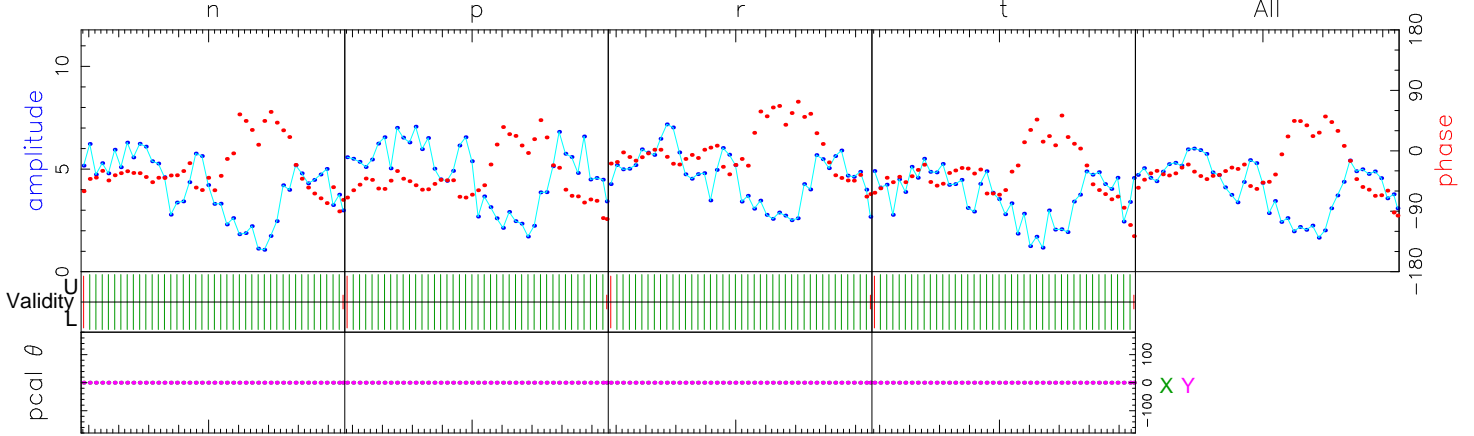


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All	
	-1.8	17.0	29.0	-12.4	Phase	8.0	
	4.4	4.1	4.1	3.9	Ampl.	4.1	
	8192.4	8192.5	8192.1	8192.0	Sbd box	8192.3	
U/L	169/169	169/169	169/169	169/169	APs used		
X	0	0	0	0	PC freqs		
Y	0	0	0	0	PC freqs		
X:Y	0:0	0:0	0:0	0:0	PC phase		
X:Y	0:0	0:0	0:0	0:0	ManI PC		
X	1000	1000	1000	1000	PC amp		
Y	1000	1000	1000	1000			
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids		
Y	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks		
					Chan ids		
					Tracks		
Group delay (usec) (SBD)	8.61359472844E+02	Apriori delay (usec)	8.61362147006E+02	Resid mbdelay (usec)	-2.67416E-03	+/- 1.1E-05	
Sband delay (usec)	8.61359400756E+02	Apriori clock (usec)	1.3976782E+02	Resid sbdelay (usec)	-2.74625E-03	+/- 4.2E-05	
Phase delay (usec)	8.61362147263E+02	Apriori clockrate (us/s)	1.6578920E-06	Resid phdelay (usec)	2.56790E-07	+/- 1.8E-08	
Delay rate (us/s)	-3.00640706222E-01	Apriori rate (us/s)	-3.00641100707E-01	Resid rate (us/s)	3.94485E-07	+/- 7.2E-10	
Total phase (deg)	131.5	Apriori accel (us/s/s)	1.00813916459E-05	Resid phase (deg)	8.0	+/- 0.6	
RMS	Theor.	Amplitude	4.036 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	38.8	Search (512X16)	3.880	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
amp/seg (%)	36.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
ph/frq (deg)	22.8	Inc. seg. avg.	4.565	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011 0.011	
amp/frq (%)	4.7	Inc. frq. avg.	4.099	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
X: az 133.5 el 67.8 pa -29.9	Y: az 79.7 el 62.7 pa -76.9	u, v (fr/asec)	2261.313 1943.726	simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/f242a/FRINGE/1234/No0006/XY..3GF8Z8	Output file: /Exps/f242a/FRINGE/1234/No0006/XY.W.3.3GF8Z8					



Fringe quality 5
SNR 99.8
Int time 86.403
Amp 3.928
Phase -211.7
PFD 0.0e+00
Delays (us)
SBD -0.037238
MBD 0.002350
Fringe rate (Hz)
0.033869
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f242a
Exper # 1234
Yr:day 2024:284
Start 131517.41
Stop 131643.94
FRT 131730.00
Corr/FF/build
2024:285:104923
2024:285:105003
2023:348:201045
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec



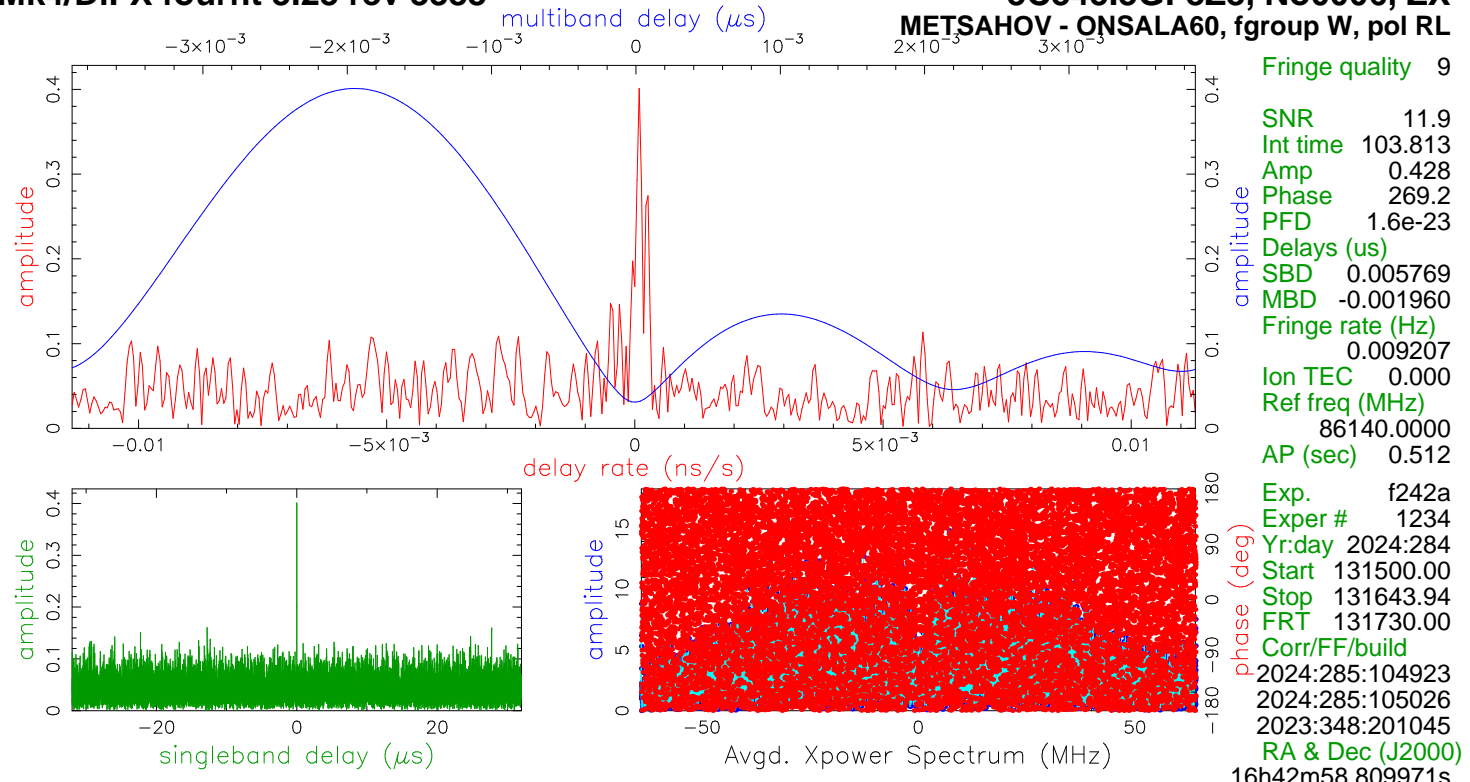
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-35.9	-46.8	-5.8	-38.8	Phase	-31.7
	3.6	4.2	4.1	3.2	Ampl.	3.8
	8183.3	8183.7	8183.5	8183.1	Sbd box	8183.5
U/L	169/169	169/169	169/169	169/169	APs used	
X	0	0	0	0	PC freqs	
Y	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000		
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
Y	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	8.61325434407E+02	Apriori delay (usec)	8.61362147006E+02	Resid mbdelay (usec)	2.34990E-03	+/-	1.1E-05
Sband delay (usec)	8.61324908756E+02	Apriori clock (usec)	1.3976782E+02	Resid sbdelay (usec)	-3.72383E-02	+/-	4.3E-05
Phase delay (usec)	8.61362145985E+02	Apriori clockrate (us/s)	1.6578920E-06	Resid phdelay (usec)	-1.02148E-06	+/-	1.9E-08
Delay rate (us/s)	-3.00640707517E-01	Apriori rate (us/s)	-3.00641100707E-01	Resid rate (us/s)	3.93190E-07	+/-	7.4E-10
Total phase (deg)	-88.1	Apriori accel (us/s/s)	1.00813916459E-05	Resid phase (deg)	-211.7	+/-	0.6

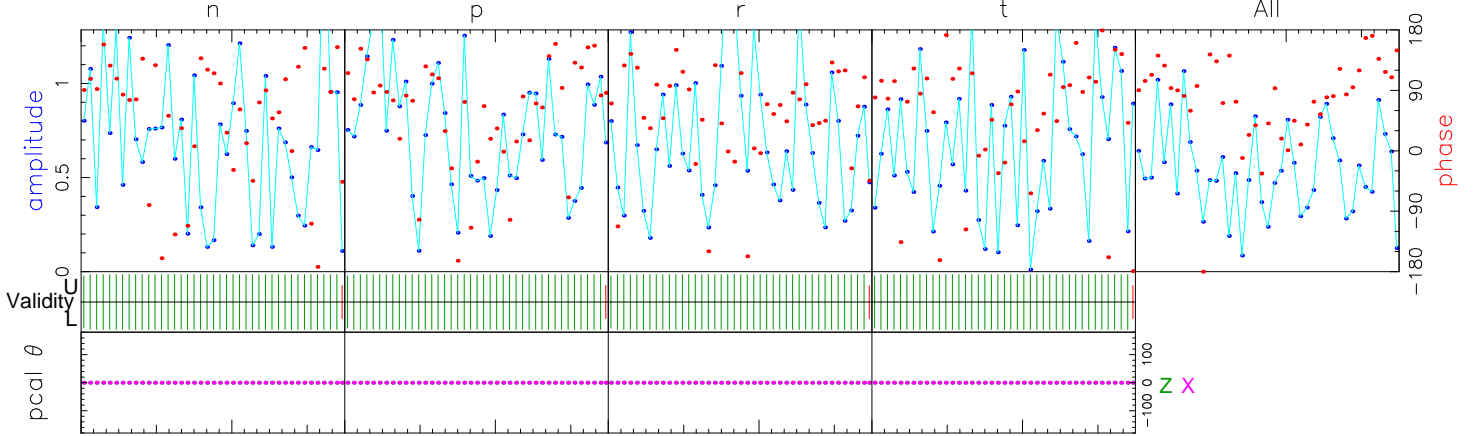
ph/seg (deg) 36.4 3.8 Search (512X16) 3.619 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 31.7 6.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
ph/frq (deg) 22.0 1.1 Inc. seg. avg. 4.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.004 0.004
amp/frq (%) 11.1 2.0 Inc. frq. avg. 3.778 Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us dr window (ns/s) -0.011 0.011
X: az 133.5 el 67.8 pa -29.9 Y: az 79.7 el 62.7 pa -76.9 u,v (fr/asec) 2261.313 1943.726 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/f242a/FRINGE/1234/No0006/XY..3GF8Z8 Output file: /Exps/f242a/FRINGE/1234/No0006/XY.W.7.3GF8Z8

Mk4/DiFX fourfit 3.23 rev 3383

3C345.3GF8Z8, No0006, ZX
 METSAHOV - ONSALA60, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 41 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

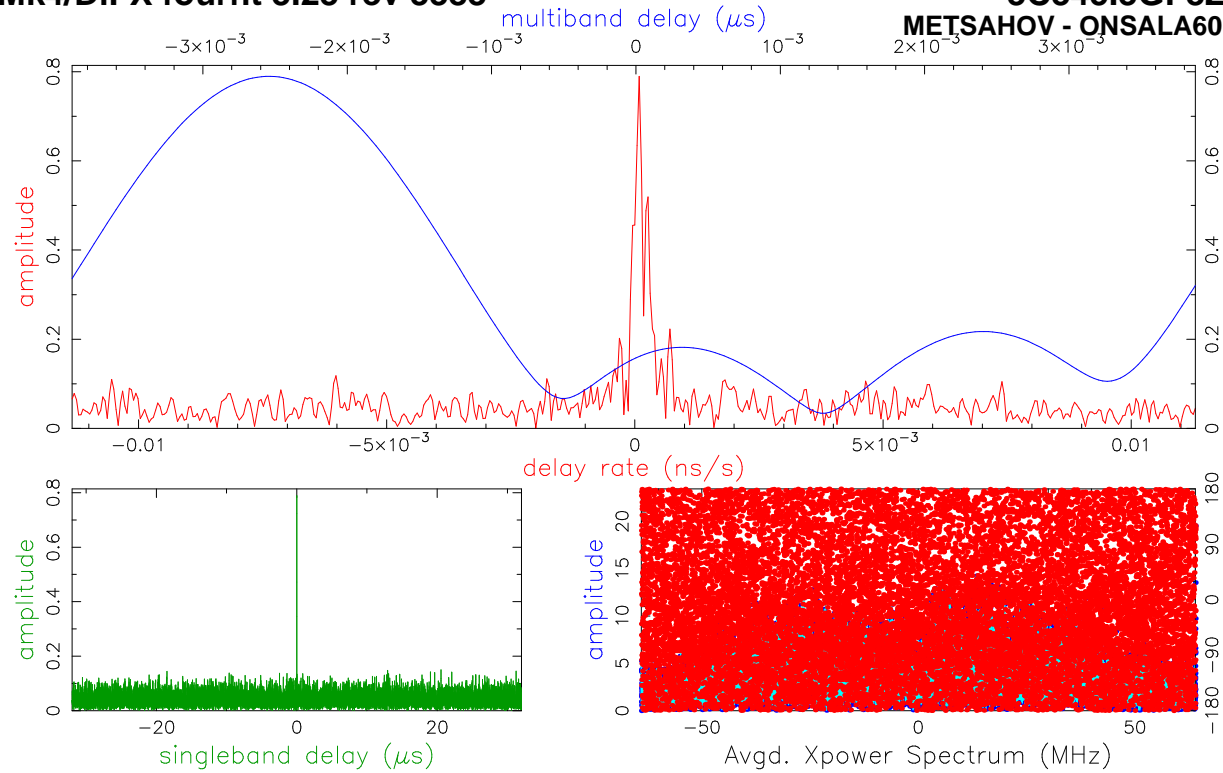


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	94.7	90.1	68.4	103.3	Phase	89.2
	0.4	0.5	0.4	0.4	Ampl.	0.4
	8194.5	8194.3	8194.7	8194.4	Sbd box	8194.5
U/L	203/203	203/203	203/203	203/203	APs used	
Z	0	0	0	0	PC freqs	
X	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	-2.66861791329E+00	Apriori delay (usec)	-2.67447026982E+00	Resid mbdelay (usec)	-1.96014E-03	+/-	9.3E-05
Sband delay (usec)	-2.66870101982E+00	Apriori clock (usec)	-1.2351740E+02	Resid sbdelay (usec)	5.76925E-03	+/-	3.6E-04
Phase delay (usec)	-2.67446739418E+00	Apriori clockrate (us/s)	-7.2169202E-07	Resid phdelay (usec)	2.87564E-06	+/-	1.5E-07
Delay rate (us/s)	-1.42445795099E-01	Apriori rate (us/s)	-1.42445901983E-01	Resid rate (us/s)	1.06884E-07	+/-	5.2E-09
Total phase (deg)	-43.7	Apriori accel (us/s/s)	1.20460170775E-06	Resid phase (deg)	269.2	+/-	4.8

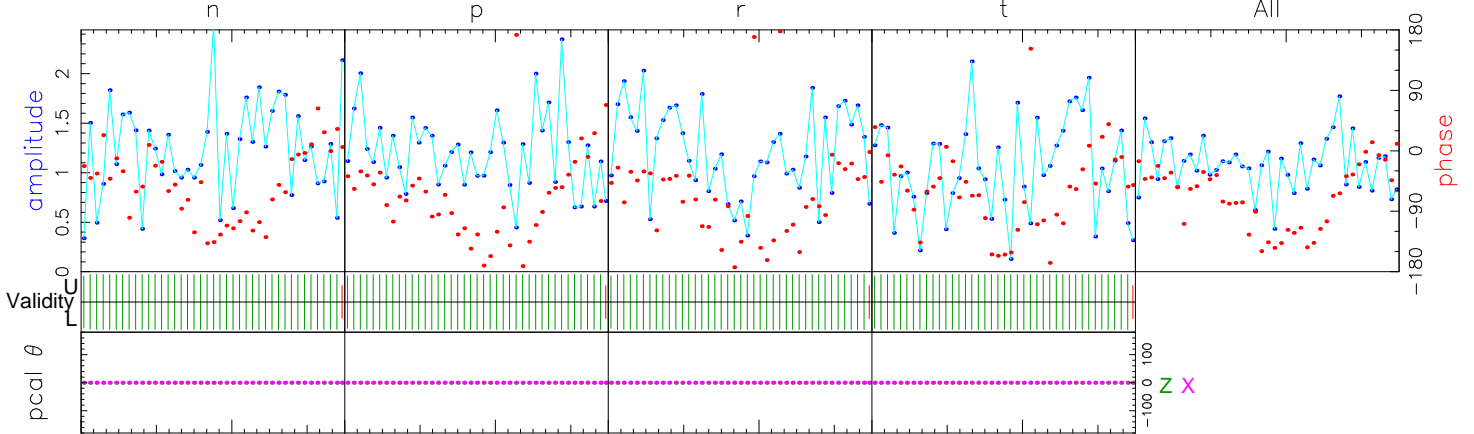
ph/seg (deg)	RMS 50.3	Theor. 30.7	Amplitude Search (512X16)	0.428 +/- 0.036	0.379	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	60.6	53.7	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.004	0.004
ph/frq (deg)	18.2	9.6	Inc. seg. avg.	0.480	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	10.0	16.8	Inc. frq. avg.	0.405				ion window (TEC)	0.00	0.00

Z: az 161.8 el 68.9 pa -11.6 X: az 133.5 el 67.8 pa -29.9 u,v (fr/asec) 1063.818 239.486 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f242a/FRINGE/1234/No0006/ZX..3GF8Z8 Output file: /Exps/f242a/FRINGE/1234/No0006/ZX.W.11.3GF8Z8



Fringe quality 8
 SNR 22.7
 Int time 103.813
 Amp 0.814
 Phase 113.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.005224
 MBD -0.002546
 Fringe rate (Hz)
 0.009460
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131500.00
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:104949
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 41 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

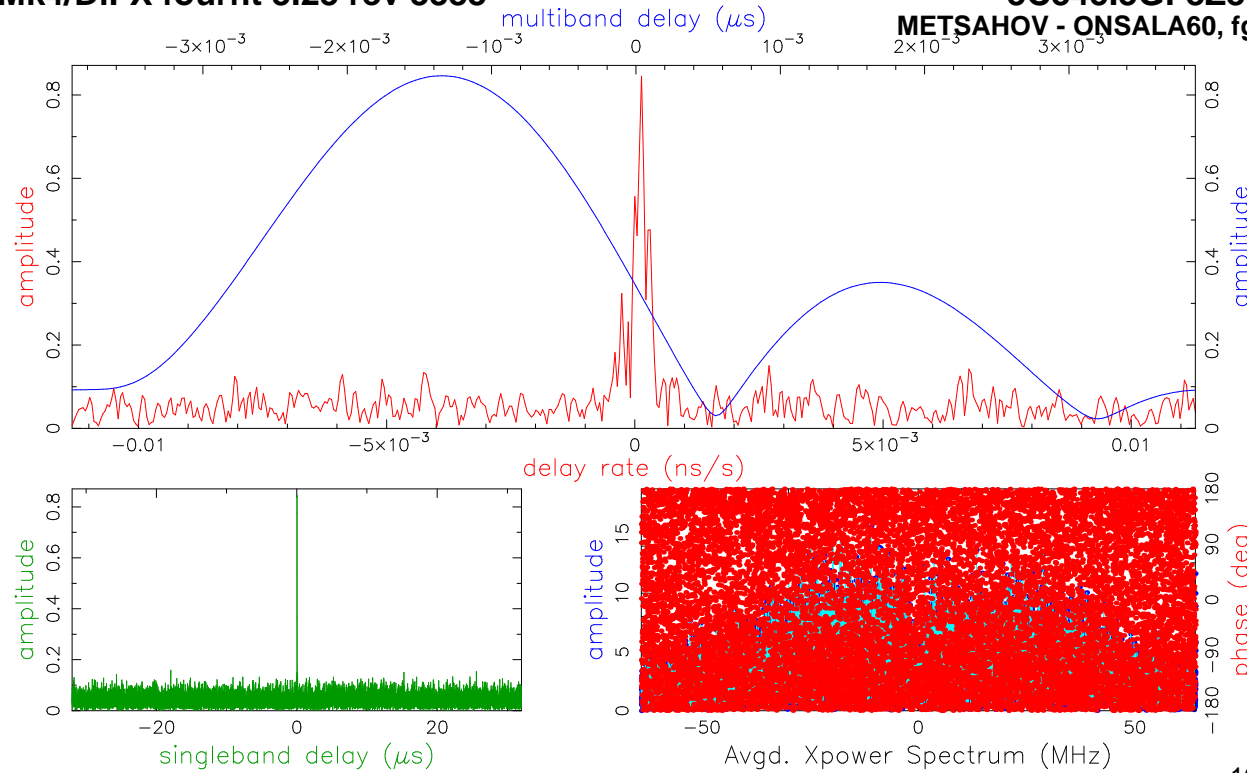


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-57.1	-77.2	-71.2	-57.4	Phase	-66.2
	0.8	0.9	0.8	0.7	Ampl.	0.8
	8194.3	8194.0	8194.5	8194.7	Sbd box	8194.3
U/L	203/203	203/203	203/203	203/203	APs used	
Z	0	0	0	0	PC freqs	
X	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	-2.66920369454E+00	Apriori delay (usec)	-2.67447026982E+00	Resid mbdelay (usec)	-2.54592E-03	+/-	4.9E-05	
Sband delay (usec)	-2.66924651982E+00	Apriori clock (usec)	-1.2351740E+02	Resid sbdelay (usec)	5.22375E-03	+/-	1.9E-04	
Phase delay (usec)	-2.67447240613E+00	Apriori clockrate (us/s)	-7.2169202E-07	Resid phdelay (usec)	-2.13631E-06	+/-	8.1E-08	
Delay rate (us/s)	-1.42445792163E-01	Apriori rate (us/s)	-1.42445901983E-01	Resid rate (us/s)	1.09821E-07	+/-	2.7E-09	
Total phase (deg)	160.9	Apriori accel (us/s/s)	1.20460170775E-06	Resid phase (deg)	113.8	+/-	2.5	
	RMS	Theor.	Amplitude	0.814 +/- 0.036	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	46.5	16.2	Search (512X16)	0.747	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
amp/seg (%)	46.1	28.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
ph/frq (deg)	12.4	5.1	Inc. seg. avg.	1.045	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011 0.011	
amp/frq (%)	8.1	8.8	Inc. frq. avg.	0.796	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
Z: az 161.8 el 68.9 pa -11.6		X: az 133.5 el 67.8 pa -29.9		u,v (fr/asec)	1063.818 239.486		simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/f242a/FRINGE/1234/No0006/ZX..3GF8Z8		Output file: /Exps/f242a/FRINGE/1234/No0006/ZX.W.2.3GF8Z8				

Mk4/DiFX fourfit 3.23 rev 3383

3C345.3GF8Z8, No0006, ZX
 METSAHOV - ONSALA60, fgroup W, pol RR

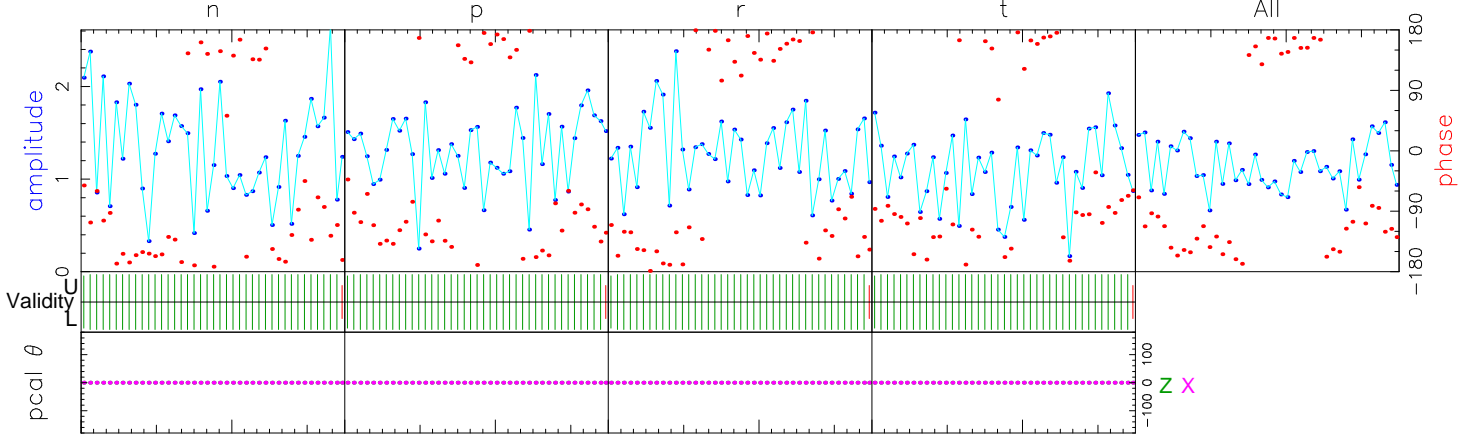


Fringe quality 8

SNR 24.3
 Int time 103.813
 Amp 0.871
 Phase 36.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.037727
 MBD -0.001393
 Fringe rate (Hz)
 0.009704
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131500.00
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:105001
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 41 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



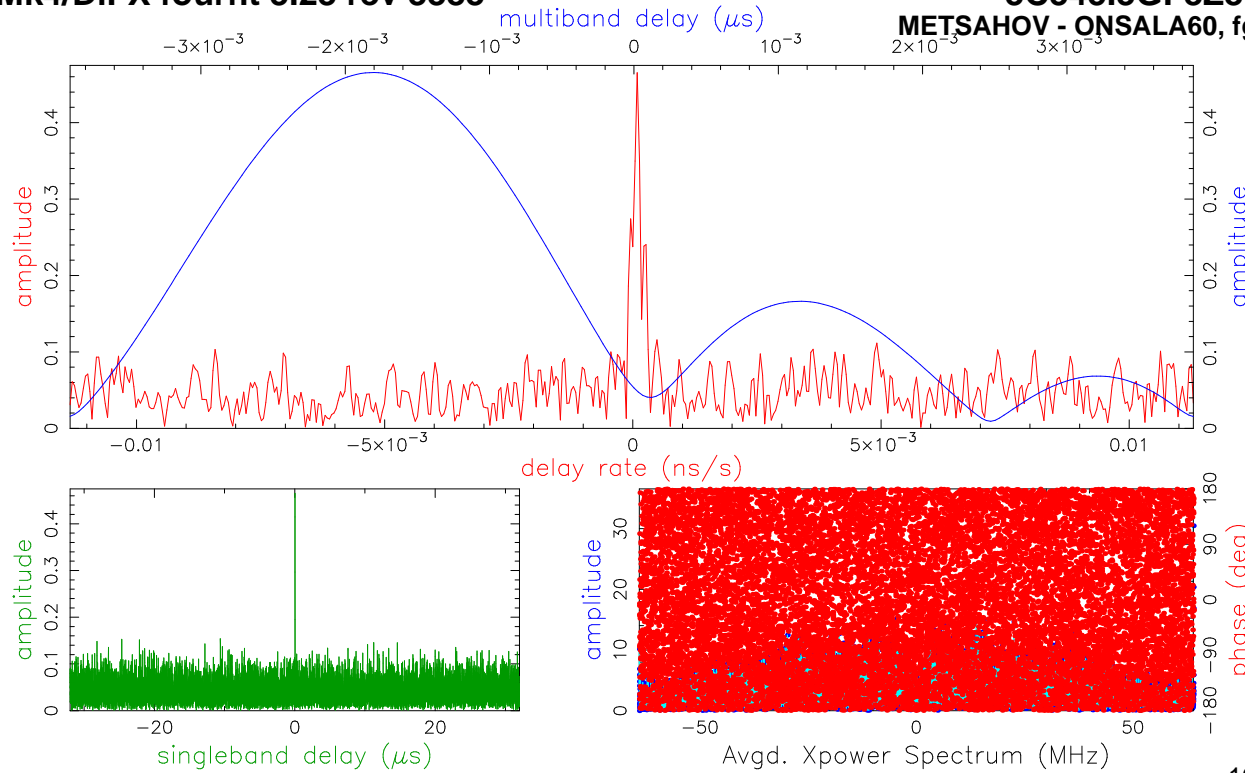
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-146.9	-133.6	-165.7	-125.4	Phase	-144.0
	0.9	0.9	1.0	0.7	Ampl.	0.9
	8202.7	8202.7	8202.5	8203.1	Sbd box	8202.7
U/L	203/203	203/203	203/203	203/203	APs used	
Z	0	0	0	0	PC freqs	
X	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	-2.63680043814E+00	Apriori delay (usec)	-2.67447026982E+00	Resid mbdelay (usec)	-1.39267E-03	+/-	4.6E-05
Sband delay (usec)	-2.63674326982E+00	Apriori clock (usec)	-1.2351740E+02	Resid sbdelay (usec)	3.77270E-02	+/-	1.8E-04
Phase delay (usec)	-2.67447491468E+00	Apriori clockrate (us/s)	-7.2169202E-07	Resid phdelay (usec)	-4.64486E-06	+/-	7.6E-08
Delay rate (us/s)	-1.42445789328E-01	Apriori rate (us/s)	-1.42445901983E-01	Resid rate (us/s)	1.12655E-07	+/-	2.5E-09
Total phase (deg)	83.1	Apriori accel (us/s/s)	1.20460170775E-06	Resid phase (deg)	36.0	+/-	2.4

ph/seg (deg)	RMS 44.9	Theor. 15.1	Amplitude Search (512X16)	0.871 +/- 0.036	0.791	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	43.7	26.4	Interp.	0.000	0.791	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.004	0.004
ph/frq (deg)	21.6	4.7	Inc. seg. avg.	1.118	0.791	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	10.6	8.2	Inc. frq. avg.	0.873	0.791	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

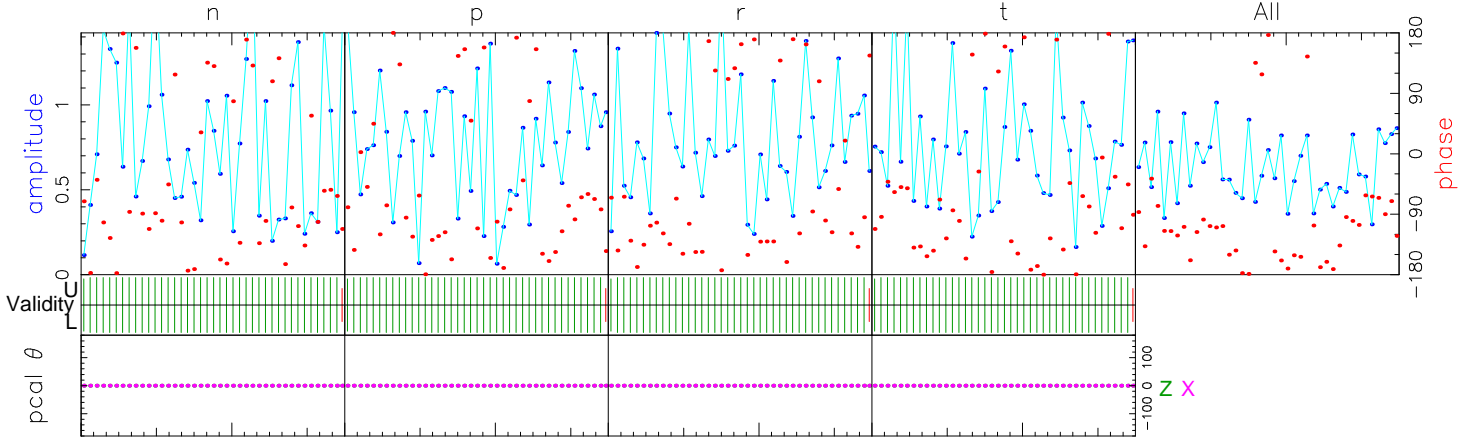
Z: az 161.8 el 68.9 pa -11.6 X: az 133.5 el 67.8 pa -29.9 u,v (fr/asec) 1063.818 239.486 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f242a/FRINGE/1234/No0006/ZX..3GF8Z8 Output file: /Exps/f242a/FRINGE/1234/No0006/ZX.W.5.3GF8Z8



Fringe quality 9
 SNR 13.2
 Int time 103.813
 Amp 0.475
 Phase 54.6
 PFD 1.3e-30
 Delays (us)
 SBD 0.037970
 MBD -0.001833
 Fringe rate (Hz) 0.009505
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131500.00
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:105013
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

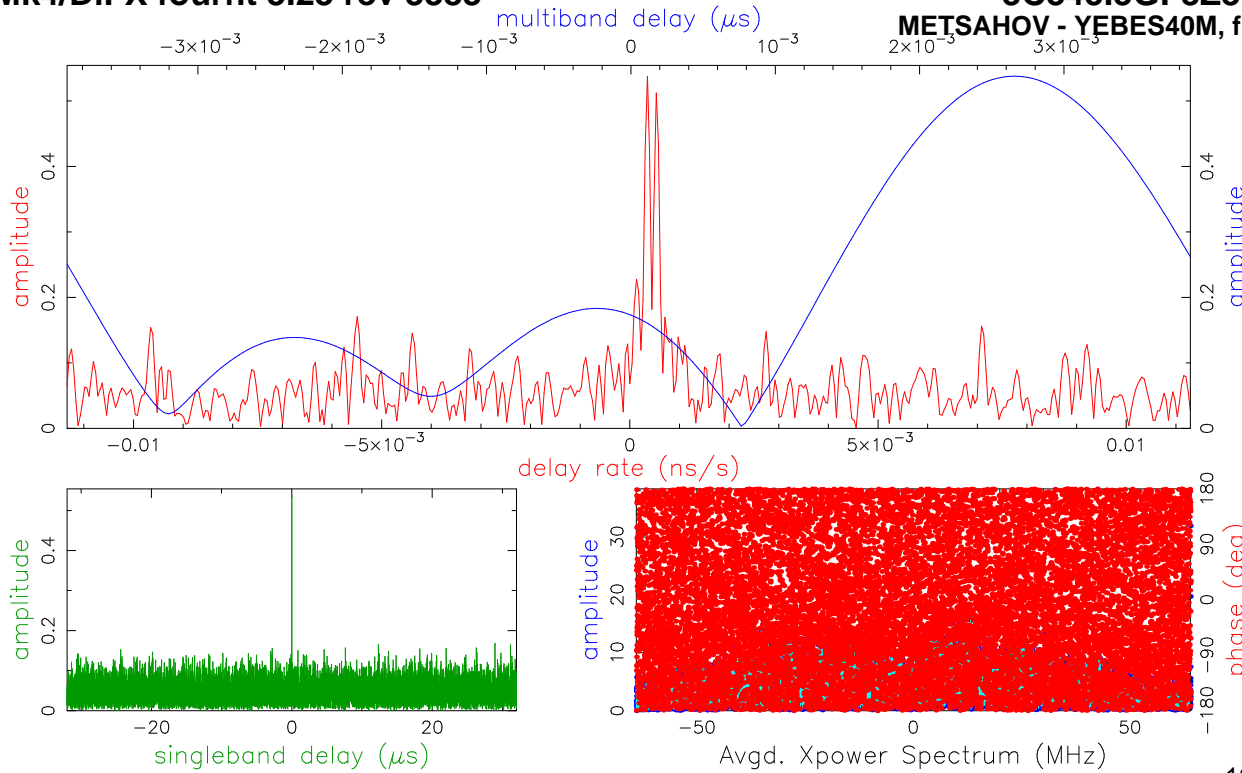
Amp. and Phase vs. time for each freq., 41 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-126.5	-119.0	-139.6	-115.1	Phase	-125.4
	0.4	0.5	0.5	0.5	Ampl.	0.5
	8202.6	8202.6	8202.7	8203.2	Sbd box	8202.7
U/L	203/203	203/203	203/203	203/203	APs used	
Z	0	0	0	0	PC freqs	
X	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	-2.63724071939E+00	Apriori delay (usec)	-2.67447026982E+00	Resid mbdelay (usec)	-1.83295E-03	+/-	8.4E-05
Sband delay (usec)	-2.63650026982E+00	Apriori clock (usec)	-1.2351740E+02	Resid sbdelay (usec)	3.79700E-02	+/-	3.3E-04
Phase delay (usec)	-2.67447431435E+00	Apriori clockrate (us/s)	-7.2169202E-07	Resid phdelay (usec)	-4.04454E-06	+/-	1.4E-07
Delay rate (us/s)	-1.42445791638E-01	Apriori rate (us/s)	-1.42445901983E-01	Resid rate (us/s)	1.10345E-07	+/-	4.7E-09
Total phase (deg)	101.7	Apriori accel (us/s/s)	1.20460170775E-06	Resid phase (deg)	54.6	+/-	4.3

ph/seg (deg)	RMS 45.7	Theor. 27.7	Amplitude Search (512X16)	0.475 +/- 0.036	0.433	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	51.8	48.4	Interp.	0.000	0.433	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	13.2	8.7	Inc. seg. avg.	0.567	0.467	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	7.2	15.1	Inc. frq. avg.	0.467	0.467	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite
Z: az 161.8 el 68.9 pa -11.6		X: az 133.5 el 67.8 pa -29.9		u, v (fr/asec) 1063.818 239.486			ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva		Input file: /Exps/f242a/FRINGE/1234/No0006/ZX..3GF8Z8		Output file: /Exps/f242a/FRINGE/1234/No0006/ZX.W.9.3GF8Z8			simultaneous interpolator

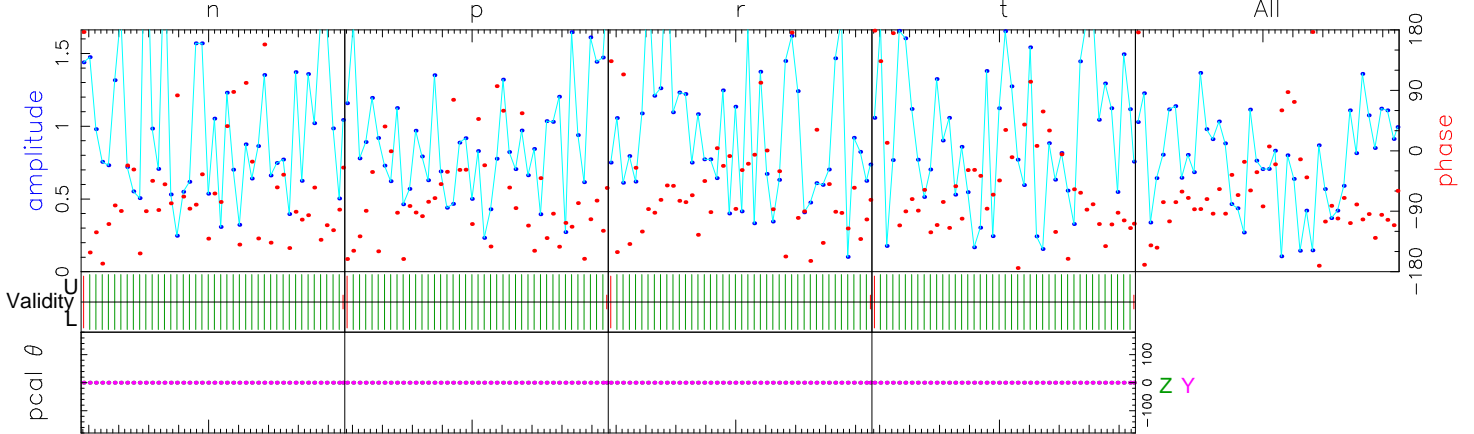


Fringe quality 9

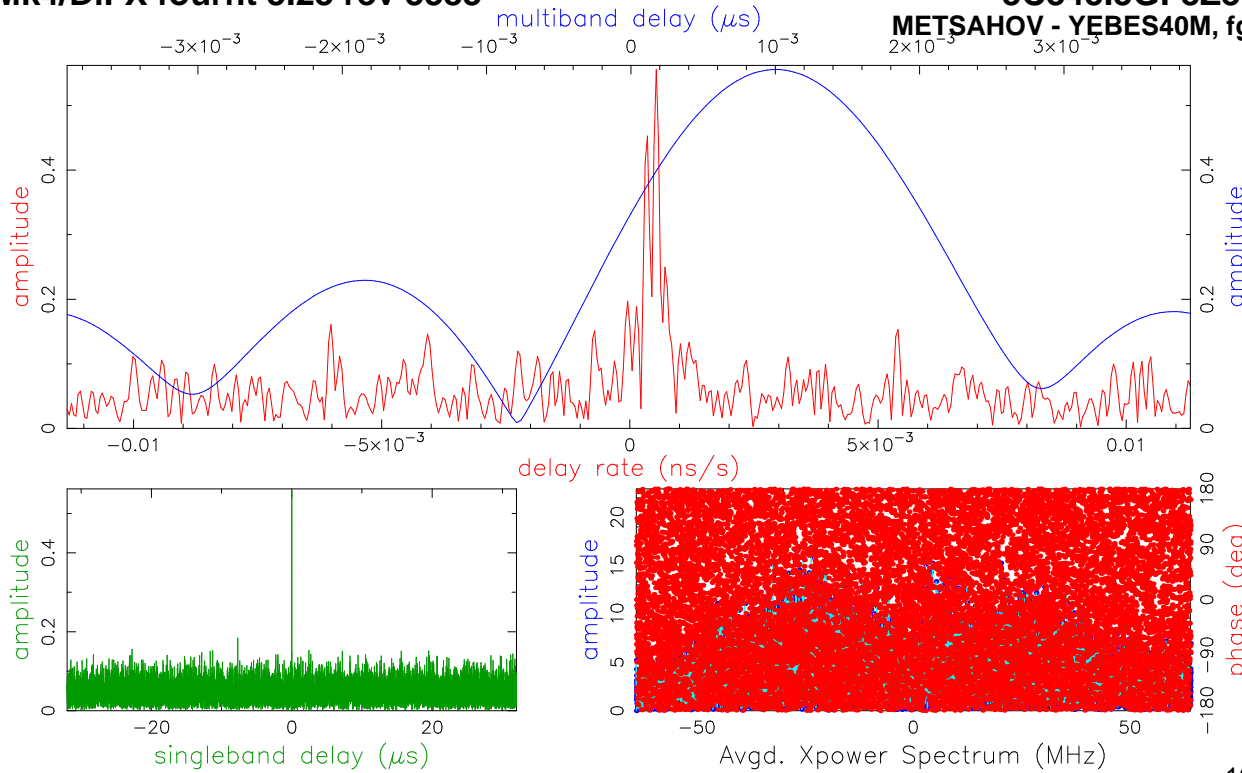
SNR 14.1
 Int time 86.403
 Amp 0.554
 Phase -89.0
 PFD 1.2e-35
 Delays (us)
 SBD 0.002568
 MBD 0.002621
 Fringe rate (Hz) 0.029604
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131517.41
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:104943
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All	
	-91.9	-92.3	-82.0	-90.1	Phase	-89.0	
	0.6	0.5	0.6	0.5	Ampl.	0.5	
	8193.9	8193.7	8193.5	8193.6	Sbd box	8193.7	
U/L	169/169	169/169	169/169	169/169	APs used		
Z	0	0	0	0	PC freqs		
Y	0	0	0	0	PC freqs		
Z:Y	0:0	0:0	0:0	0:0	PC phase		
Z:Y	0:0	0:0	0:0	0:0	ManI PC		
Z	1000	1000	1000	1000	PC amp		
Y	1000	1000	1000	1000			
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids		
Y	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks		
					Chan ids		
					Tracks		
Group delay (usec) (SBD)	8.58690297589E+02	Apriori delay (usec)	8.58687676737E+02	Resid mbdelay (usec)	2.62085E-03	+/- 7.9E-05	
Sband delay (usec)	8.58690244237E+02	Apriori clock (usec)	1.6250435E+01	Resid sbdelay (usec)	2.56750E-03	+/- 3.1E-04	
Phase delay (usec)	8.58687673866E+02	Apriori clockrate (us/s)	9.3620001E-07	Resid phdelay (usec)	-2.87088E-06	+/- 1.3E-07	
Delay rate (us/s)	-4.43086659023E-01	Apriori rate (us/s)	-4.43087002690E-01	Resid rate (us/s)	3.43667E-07	+/- 5.3E-09	
Total phase (deg)		81.6	Apriori accel (us/s/s)	1.12859933536E-05	Resid phase (deg)	-89.0 +/- 4.1	
RMS	Theor.	Amplitude	0.554 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
61.2	26.7	Search (512X16)	0.524	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
70.2	46.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
5.9	8.1	Inc. seg. avg.	0.695	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011 0.011	
10.4	14.2	Inc. frq. avg.	0.534	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
Z: az 161.8 el 68.9 pa -11.6	Y: az 79.7 el 62.7 pa -76.9	u,v (fr/asec)	3325.131 2183.212	simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/f242a/FRINGE/1234/No0006/ZY..3GF8Z8	Output file: /Exps/f242a/FRINGE/1234/No0006/ZY.W.1.3GF8Z8					

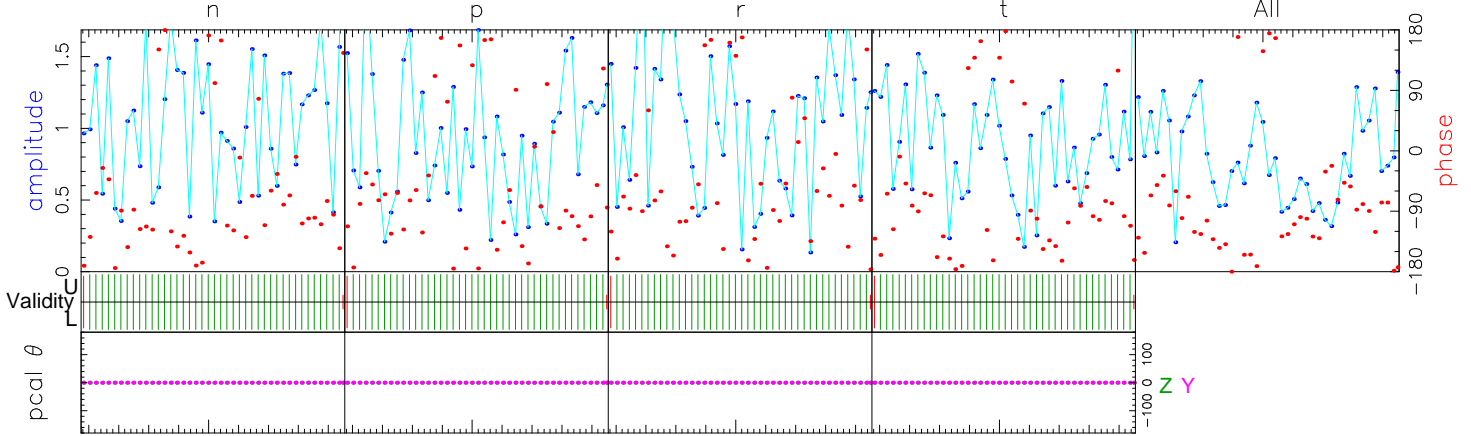


Fringe quality 9

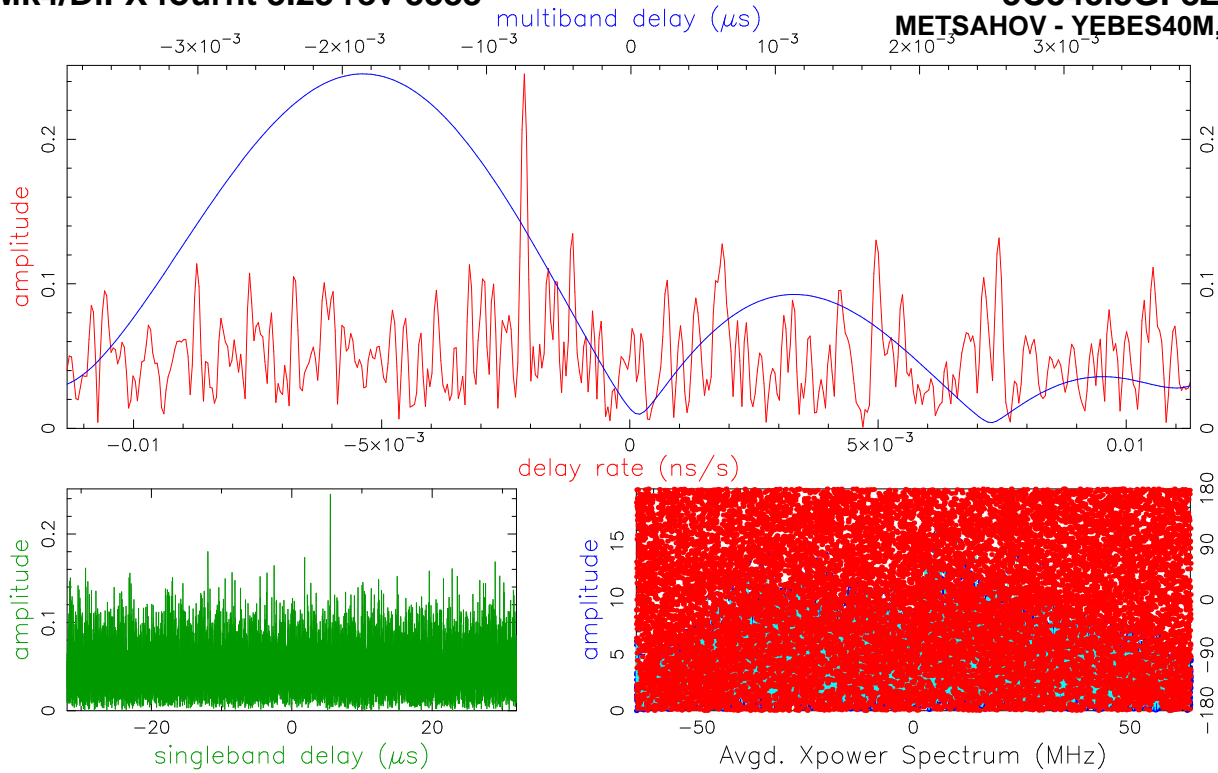
SNR 14.3
 Int time 86.403
 Amp 0.562
 Phase -112.4
 PFD 7.0e-37
 Delays (us)
 SBD 0.000759
 MBD 0.001010
 Fringe rate (Hz) 0.045324
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131517.41
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:104953
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec

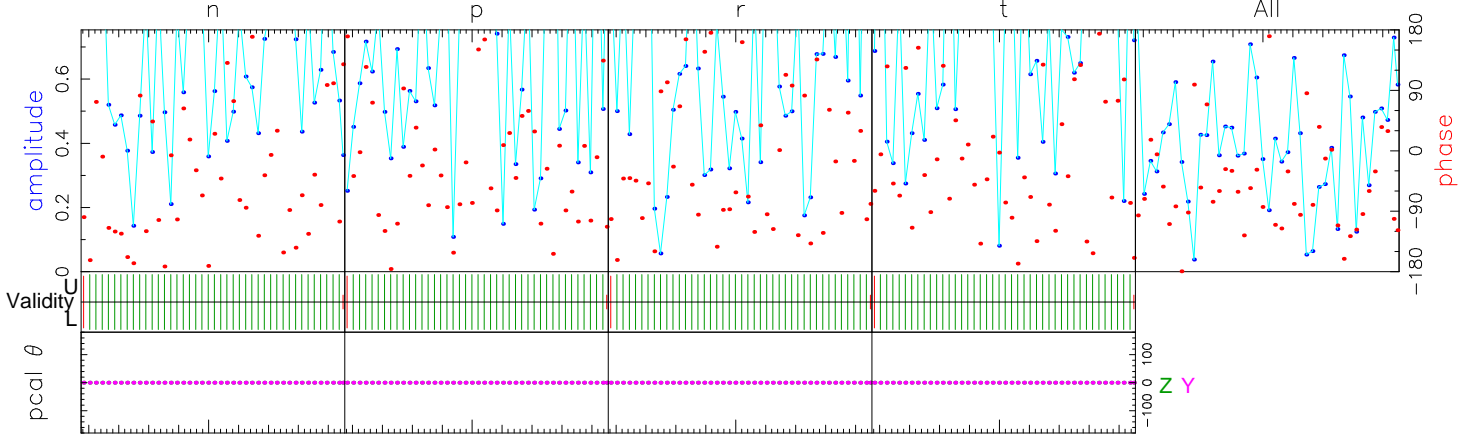


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-115.2	-110.7	-102.1	-120.2	Phase	-112.4
	0.7	0.5	0.5	0.5	Ampl.	0.6
	8193.1	8193.5	8193.1	8193.2	Sbd box	8193.2
U/L	169/169	169/169	169/169	169/169	APs used	
Z	0	0	0	0	PC freqs	
Y	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
Y	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	
Group delay (usec) (SBD)	8.58688687031E+02		Apriori delay (usec)	8.586876737E+02	Resid mbdelay (usec)	1.01029E-03 +/- 7.8E-05
Sband delay (usec)	8.58688435987E+02		Apriori clock (usec)	1.6250435E+01	Resid sbdelay (usec)	7.59250E-04 +/- 3.0E-04
Phase delay (usec)	8.58687673111E+02		Apriori clockrate (us/s)	9.3620001E-07	Resid phdelay (usec)	-3.62566E-06 +/- 1.3E-07
Delay rate (us/s)	-4.43086476521E-01		Apriori rate (us/s)	-4.43087002690E-01	Resid rate (us/s)	5.26169E-07 +/- 5.2E-09
Total phase (deg)		58.2	Apriori accel (us/s/s)	1.12859933536E-05	Resid phase (deg)	-112.4 +/- 4.0
	RMS	Theor.	Amplitude	0.562 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	47.8	26.3	Search (512X16)	0.553	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
amp/seg (%)	67.7	45.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.004 0.004
ph/frq (deg)	9.4	8.0	Inc. seg. avg.	0.718	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	17.0	14.0	Inc. frq. avg.	0.555	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
Z: az 161.8 el 68.9 pa -11.6		Y: az 79.7 el 62.7 pa -76.9		u,v (fr/asec) 3325.131 2183.212		simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/f242a/FRINGE/1234/No0006/ZY..3GF8Z8		Output file: /Exps/f242a/FRINGE/1234/No0006/ZY.W.4.3GF8Z8		



Fringe quality 0
 SNR 6.3
 Int time 86.403
 Amp 0.251
 Phase 111.7
 PFD 2.9e-01
 Delays (us)
 SBD 5.489077
 MBD -0.001897
 Fringe rate (Hz)
 -0.182473
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f242a
 Exper # 1234
 Yr:day 2024:284
 Start 131517.41
 Stop 131643.94
 FRT 131730.00
 Corr/FF/build
 2024:285:104923
 2024:285:105002
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec

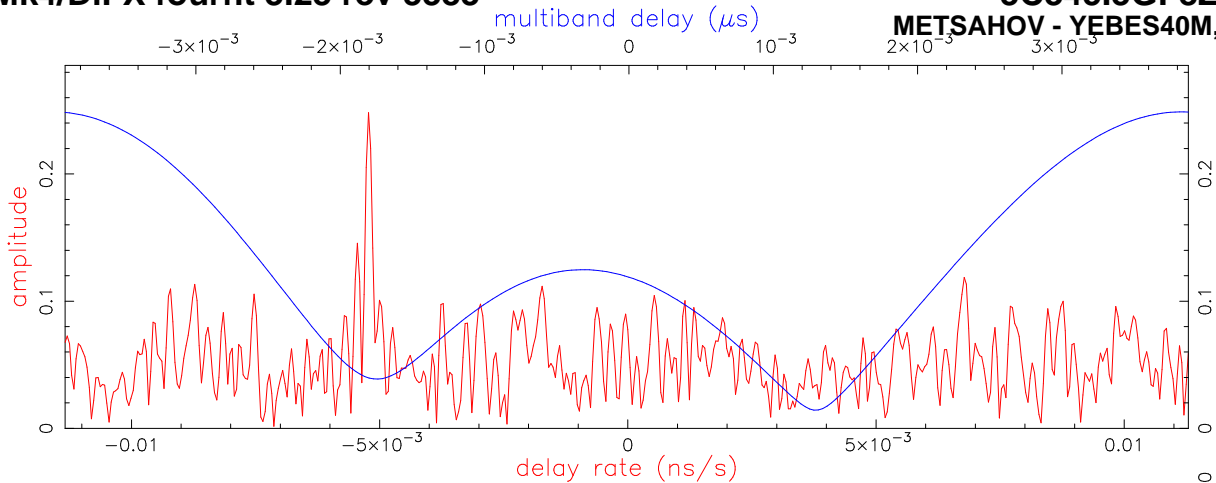


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-80.9	-51.4	-77.0	-64.5	Phase	-68.3
	0.2	0.2	0.3	0.3	Ampl.	0.2
	11599.2	12289.7	4250.9	15775.0	Sbd box	9598.2
U/L	169/169	169/169	169/169	169/169	APs used	
Z	0	0	0	0	PC freqs	
Y	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000		
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
Y	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec) (SBD)	8.64177967090E+02	Apriori delay (usec)	8.58687676737E+02	Resid mbdelay (usec)	-1.89715E-03	+/-	1.8E-04
Sband delay (usec)	8.64176753237E+02	Apriori clock (usec)	1.6250435E+01	Resid sbdelay (usec)	5.48908E+00	+/-	6.8E-04
Phase delay (usec)	8.58687674534E+02	Apriori clockrate (us/s)	9.3620001E-07	Resid phdelay (usec)	-2.20221E-06	+/-	2.9E-07
Delay rate (us/s)	-4.43089121023E-01	Apriori rate (us/s)	-4.43087002690E-01	Resid rate (us/s)	-2.11833E-06	+/-	1.2E-08
Total phase (deg)	282.4	Apriori accel (us/s/s)	1.12859933536E-05	Resid phase (deg)	111.7	+/-	9.1

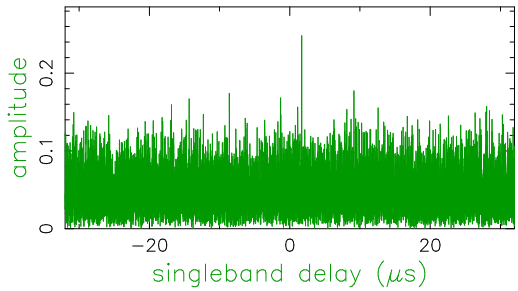
ph/seg (deg)	66.4	Theor.	59.7	Amplitude	0.251 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	95.7		104.2	Search (512X16)	0.241	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.004	0.004
ph/frq (deg)	16.4		18.2	Inc. seg. avg.	0.263	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	11.3		31.8	Inc. frq. avg.	0.241	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 161.8 el 68.9 pa -11.6 Y: az 79.7 el 62.7 pa -76.9 u,v (fr/asec) 3325.131 2183.212 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f242a/FRINGE/1234/No0006/ZY..3GF8Z8 Output file: /Exps/f242a/FRINGE/1234/No0006/ZY.W.6.3GF8Z8

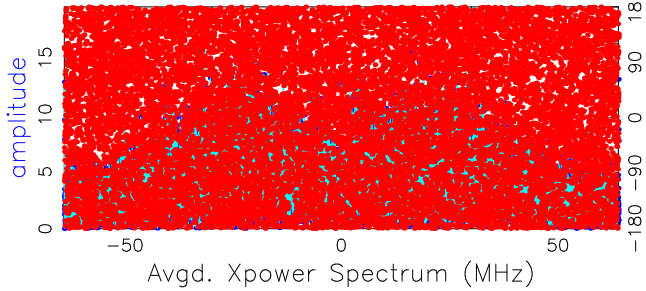


Fringe quality 0

SNR 6.6
 Int time 86.403
 Amp 0.285
 Phase 159.2
 PFD 3.7e-02
 Delays (us)
 SBD 1.697602
 MBD -0.003888
 Fringe rate (Hz)
 -0.451709
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

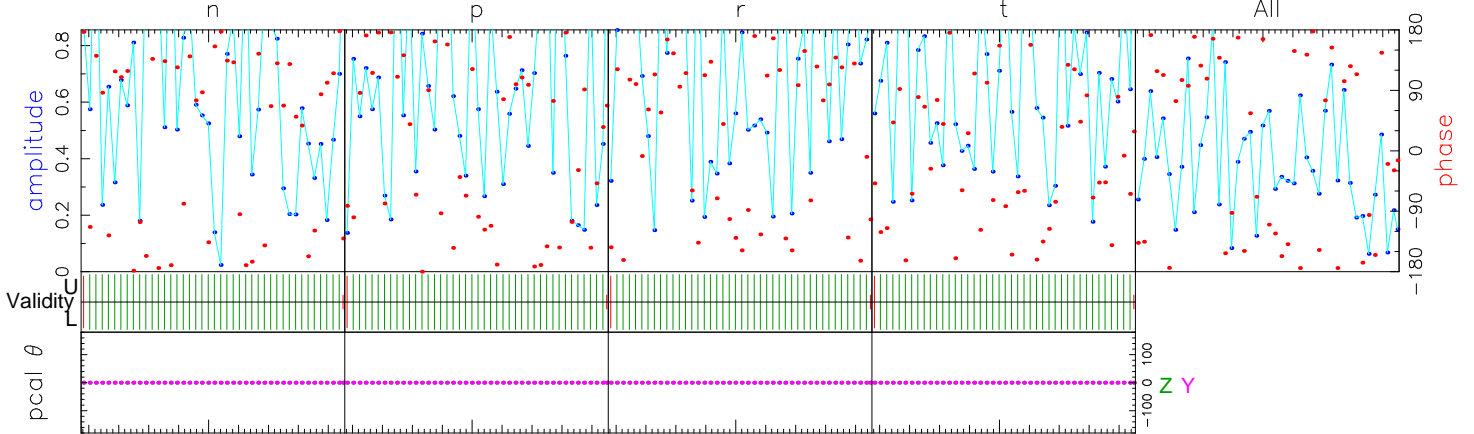


delay rate (ns/s)



Exp. f242a
 Yr:day 1234
 Start 2024:284
 Stop 2024:285
 FRT 2023:348
 Corr/FF/build 2024:285:104923
 2023:348:201045
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 43 segs, 4 APs / seg (2.05 sec / seg.), time ticks 2 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	169/169	169/169	169/169	169/169		
Z	0	0	0	0		
Y	0	0	0	0		
Z:Y	0:0	0:0	0:0	0:0		
Z:Y	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000		
Y	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR		
Y	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL		

Group delay (usec) (SBD)	8.60386913362E+02	Apriori delay (usec)	8.58687676737E+02	Resid mbdelay (usec)	-3.88837E-03	+/- 1.7E-04
Sband delay (usec)	8.60385278737E+02	Apriori clock (usec)	1.6250435E+01	Resid sbdelay (usec)	1.69760E+00	+/- 6.5E-04
Phase delay (usec)	8.58687681870E+02	Apriori clockrate (us/s)	9.3620001E-07	Resid phdelay (usec)	5.13360E-06	+/- 2.8E-07
Delay rate (us/s)	-4.43092246581E-01	Apriori rate (us/s)	-4.43087002690E-01	Resid rate (us/s)	-5.24389E-06	+/- 1.1E-08
Total phase (deg)	329.9	Apriori accel (us/s/s)	1.12859933536E-05	Resid phase (deg)	159.2	+/- 8.6

ph/seg (deg)	RMS 68.5	Theor. 56.6	Amplitude Search (512X16)	0.285 +/- 0.043	0.242	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	91.2	98.9	Interp.	0.000	0.289	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.004	0.004
ph/frq (deg)	44.0	17.3	Inc. seg. avg.	0.289	0.271	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	52.8	30.2	Inc. frq. avg.	0.271		Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 161.8 el 68.9 pa -11.6 Y: az 79.7 el 62.7 pa -76.9 u,v (fr/asec) 3325.131 2183.212 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f242a/FRINGE/1234/No0006/ZY..3GF8Z8 Output file: /Exps/f242a/FRINGE/1234/No0006/ZY.W.8.3GF8Z8