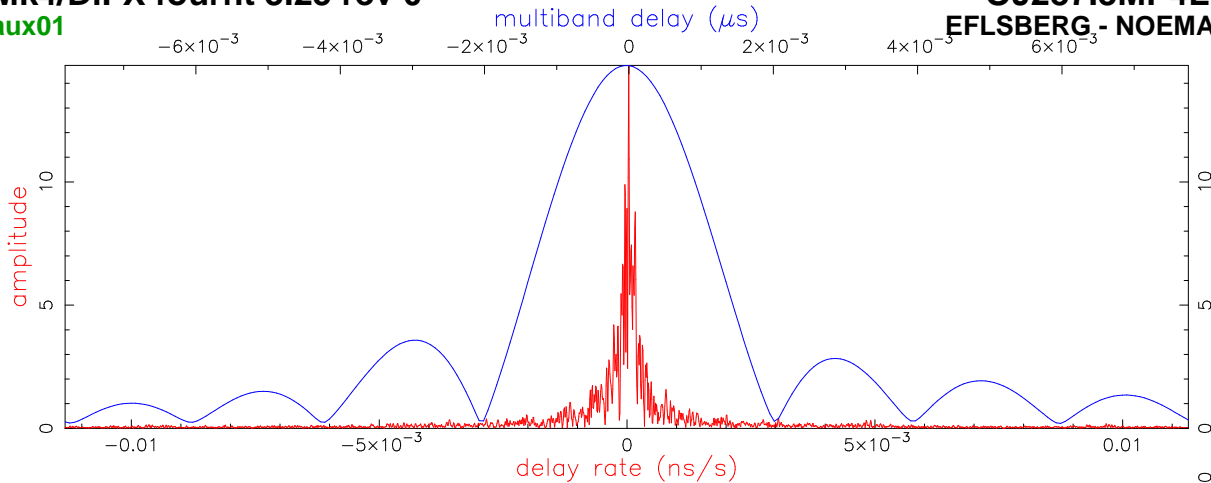


Mk4/DiFX fourfit 3.25 rev 0

aux01

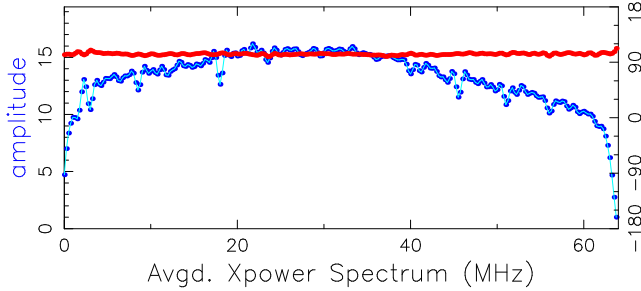
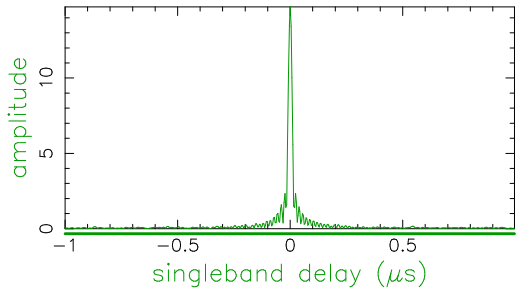
OJ287.3MP4LY, No1205, BN

EFLSBERG₃- NOEMA, fgroup W, pol LL



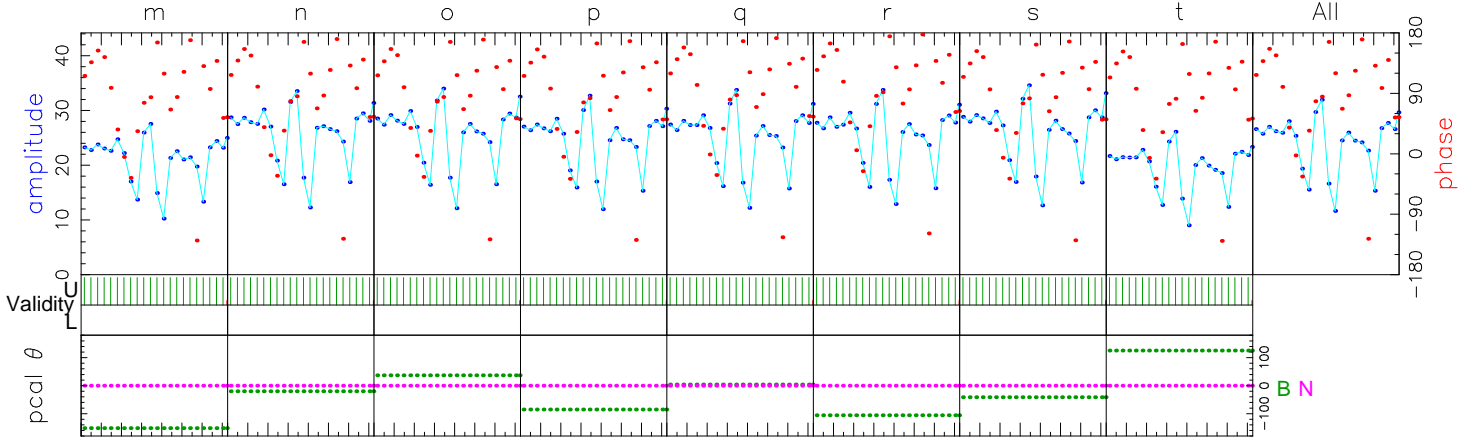
Fringe quality 5

SNR 825.2
 Int time 419.805
 Amp 14.728
 Phase 103.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.000025
 MBD -0.000036
 Fringe rate (Hz)
 0.002938
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192902
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	102.0	103.7	102.7	101.2	105.3	111.0	100.4	99.9	Phase	103.4
	12.9	15.7	15.7	15.0	15.4	15.5	15.9	12.0	Ampl.	14.8
	255.5	256.6	257.4	257.6	257.7	257.3	257.0	255.9	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-9.83172802750E+02	Apriori delay (usec)	-9.83172766498E+02	Resid mbdelay (usec)	-3.62524E-05	+/-	1.3E-06
Sband delay (usec)	-9.83172791248E+02	Apriori clock (usec)	-2.2051315E+01	Resid sbdelay (usec)	-2.47500E-05	+/-	1.0E-05
Phase delay (usec)	-9.83172763164E+02	Apriori clockrate (us/s)	-2.0383803E-07	Resid phdelay (usec)	3.33437E-06	+/-	4.5E-09
Delay rate (us/s)	3.41929359988E-02	Apriori rate (us/s)	3.41929018931E-02	Resid rate (us/s)	3.41057E-08	+/-	1.8E-11
Total phase (deg)	65.2	Apriori accel (us/s/s)	7.78251354684E-06	Resid phase (deg)	103.4	+/-	0.1

RMS Theor. Amplitude 14.728 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.5 0.3 Search (2048X32) 14.668 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.8 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 3.9 0.2 Inc. seg. avg. 24.043 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.4 0.3 Inc. frq. avg. 14.753 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 223.1 el 53.4 pa 27.8 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -197.095 799.742 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/BN.3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/BN.W.11.3MP4LY

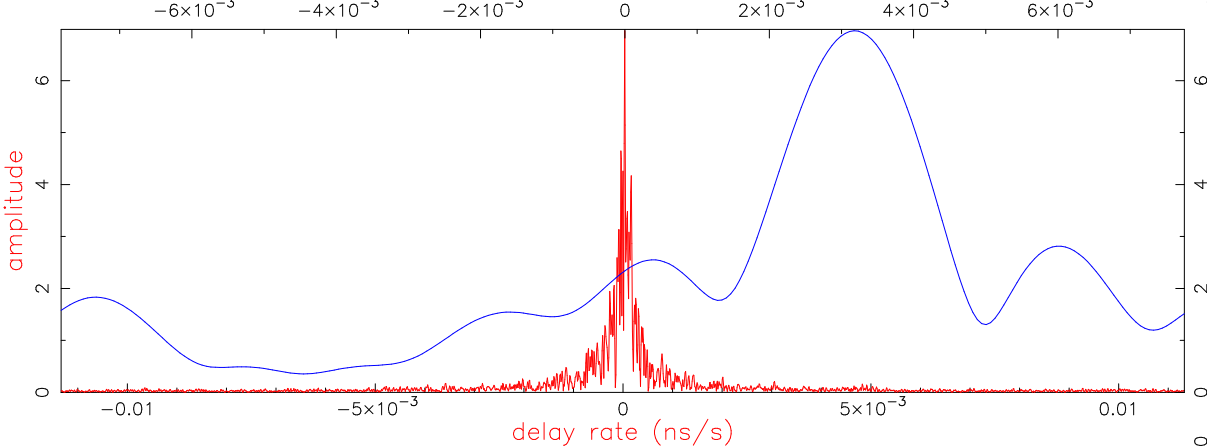
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, BN

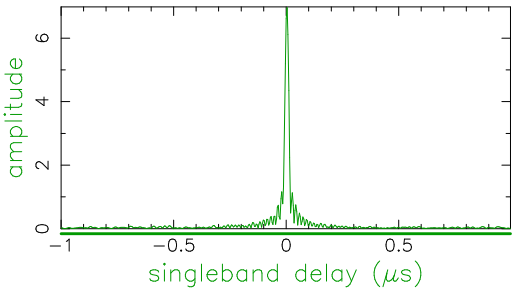
EFLSBERG - NOEMA, fgroup W, pol RR

multiband delay (μ s)

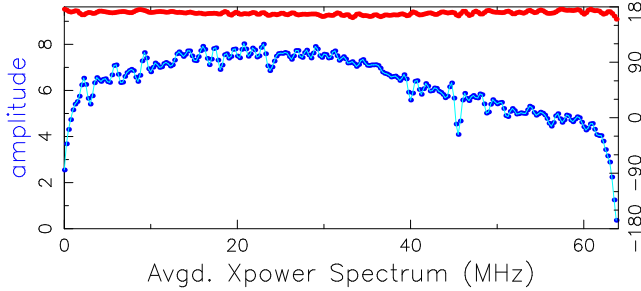


Fringe quality 3

SNR 391.4
 Int time 419.804
 Amp 6.985
 Phase 169.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.003083
 MBD 0.003162
 Fringe rate (Hz)
 0.002935
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

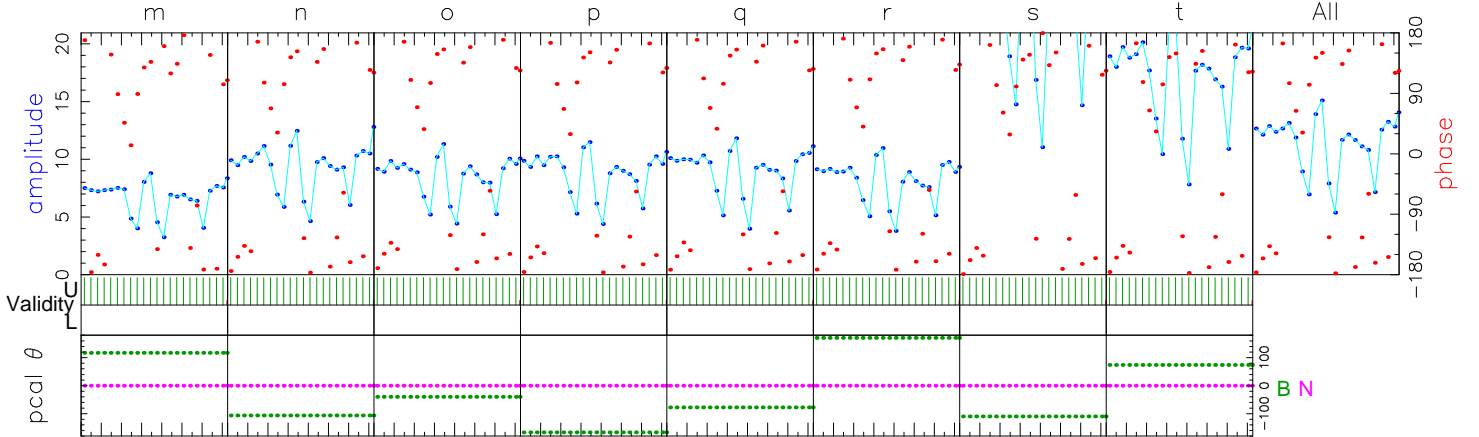


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192906
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:N	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD)	-9.83169604657E+02	Apriori delay (usec)	-9.83172766498E+02	Resid mbdelay (usec)	3.16184E-03	+/-	2.8E-06
Sband delay (usec)	-9.83169683998E+02	Apriori clock (usec)	-2.2051315E+01	Resid sbdelay (usec)	3.08250E-03	+/-	2.2E-05
Phase delay (usec)	-9.83172761031E+02	Apriori clockrate (us/s)	-2.0383803E-07	Resid phdelay (usec)	5.46738E-06	+/-	9.4E-09
Delay rate (us/s)	3.41929359627E-02	Apriori rate (us/s)	3.41929018931E-02	Resid rate (us/s)	3.40696E-08	+/-	3.9E-11
Total phase (deg)	131.3	Apriori accel (us/s/s)	7.78251354684E-06	Resid phase (deg)	169.5	+/-	0.3

ph/seg (deg)	59.7	RMS	71.5	Theor.	0.7	Amplitude	6.985 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	48.7	Search (2048X32)	6.760	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	7.5	Inc. seg. avg.	11.345	Inc. frq. avg.	6.987	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	48.7	Inc. frq. avg.	6.987	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
B: az 223.1 el 53.4 pa 27.8	N: az 227.9 el 58.0 pa 34.5	u, v (fr/asec)	-197.095 799.742	ion window (TEC)	0.00	0.00		simultaneous interpolator			

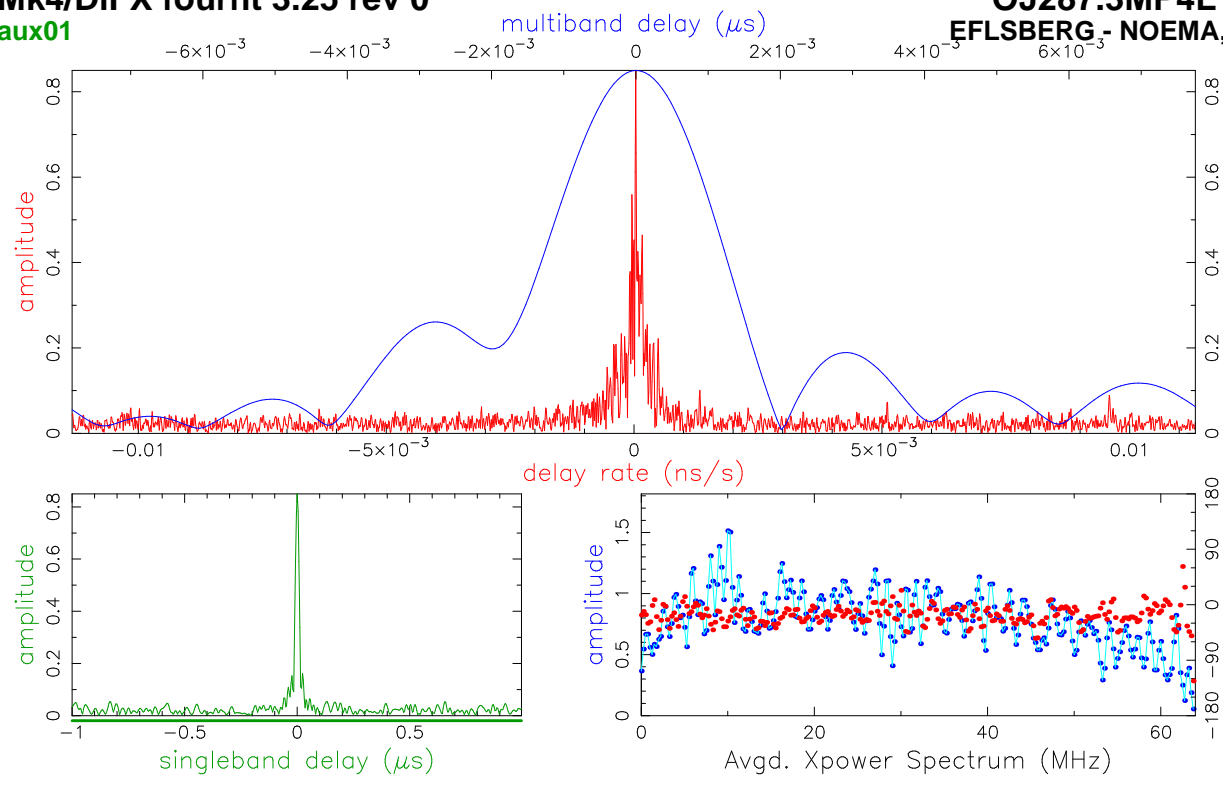
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/BN.3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/BN.W.16.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

aux01

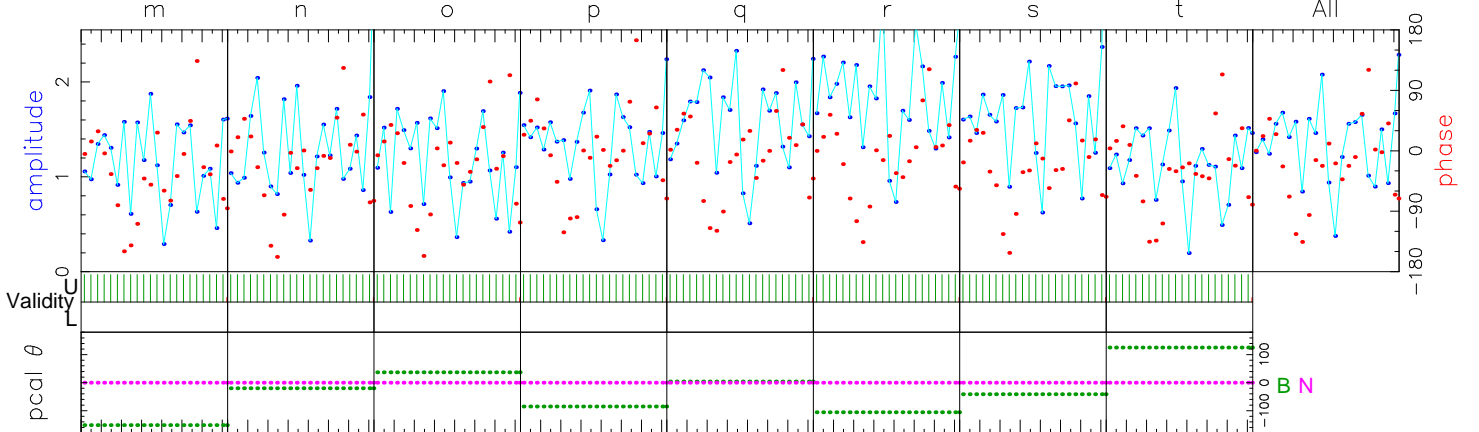
OJ287.3MP4LY, No1205, BN

EFLSBERG - NOEMA, fgroup W, pol LR



Fringe quality 6
 SNR 47.6
 Int time 419.804
 Amp 0.850
 Phase -16.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000126
 MBD 0.000006
 Fringe rate (Hz) 0.002893
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192912
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-33.2	-15.0	-18.9	1.0	-6.8	-8.2	-22.4	-30.3		-16.1	
	0.7	0.8	0.7	0.8	0.9	1.2	1.1	0.8		0.9	
	255.4	256.8	257.7	257.9	257.7	257.1	257.0	256.1		257.0	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
B	0	0	0	0	0	0	0	0			
N	0	0	0	0	0	0	0	0			
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:N	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
N	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR			
Group delay (usec) (SBD)	-9.83172760719E+02		Apriori delay (usec)		-9.83172766498E+02		Resid mbdelay (usec)		5.77886E-06	+/- 2.3E-05	
Sband delay (usec)	-9.83172640748E+02		Apriori clock (usec)		-2.2051315E+01		Resid sbdelay (usec)		1.25750E-04	+/- 1.8E-04	
Phase delay (usec)	-9.83172767016E+02		Apriori clockrate (us/s)		-2.0383803E-07		Resid phdelay (usec)		-5.17684E-07	+/- 7.8E-08	
Delay rate (us/s)	3.41929354830E-02		Apriori rate (us/s)		3.41929018931E-02		Resid rate (us/s)		3.35899E-08	+/- 3.2E-10	
Total phase (deg)			Apriori accel (us/s/s)		7.78251354684E-06		Resid phase (deg)		-16.1	+/- 2.4	
RMS	Theor.		Amplitude		0.850 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	57.9	5.8	Search (2048X32)		0.849		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	73.4	10.1	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	12.8	3.4	Inc. seg. avg.		1.340		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	19.4	5.9	Inc. frq. avg.		0.863		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
B: az 223.1 el 53.4 pa 27.8	N: az 227.9 el 58.0 pa 34.5		u,v (fr/asec)		-197.095 799.742				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No1205/BN..3MP4LY		Output file: /Exps/c241b/v2/3mm/1234/No1205/BN.W.28.3MP4LY								

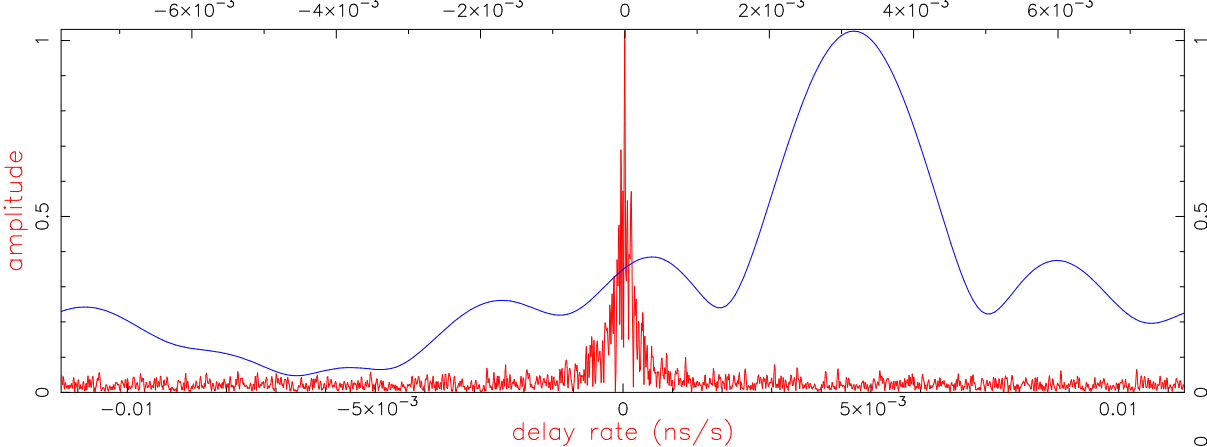
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, BN

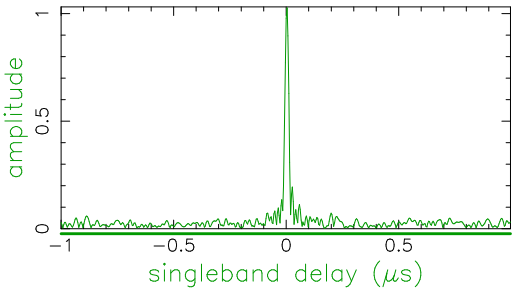
EFLSBERG - NOEMA, fgroup W, pol RL

multiband delay (μ s)

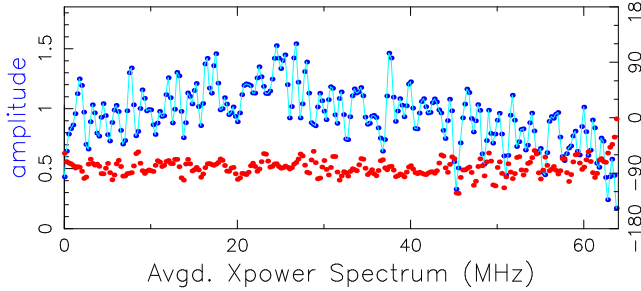


Fringe quality 3

SNR 57.8
 Int time 419.805
 Amp 1.032
 Phase -81.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.002996
 MBD 0.003148
 Fringe rate (Hz)
 0.002887
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

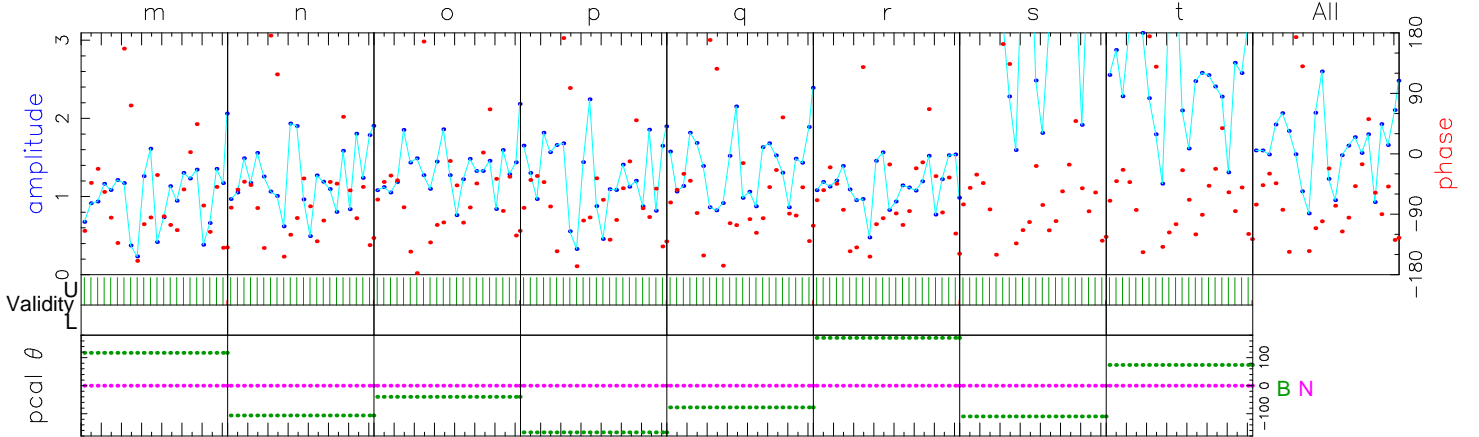


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192916
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.3	-88.1	-78.2	-84.1	-83.5	-73.4	-82.3	-80.7	Phase	-81.7
	0.6	0.8	0.8	0.8	0.9	0.7	2.1	1.7	Ampl.	1.0
	256.0	257.7	258.2	258.1	258.4	258.2	257.9	256.7	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD) -9.83169618563E+02 Apriori delay (usec) -9.83172766498E+02 Resid mbdelay (usec) 3.14794E-03 +/- 1.9E-05
 Sband delay (usec) -9.83169770748E+02 Apriori clock (usec) -2.2051315E+01 Resid sbdelay (usec) 2.99575E-03 +/- 1.5E-04
 Phase delay (usec) -9.83172769134E+02 Apriori clockrate (us/s) -2.0383803E-07 Resid phdelay (usec) -2.63601E-06 +/- 6.4E-08
 Delay rate (us/s) 3.41929354029E-02 Apriori rate (us/s) 3.41929018931E-02 Resid rate (us/s) 3.35098E-08 +/- 2.6E-10
 Total phase (deg) -120.0 Apriori accel (us/s/s) 7.78251354684E-06 Resid phase (deg) -81.7 +/- 2.0

RMS Theor. Amplitude 1.032 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 60.1 4.8 Search (2048X32) 1.001 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.4 8.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 4.7 2.8 Inc. seg. avg. 1.624 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 48.9 4.9 Inc. frq. avg. 1.027 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 223.1 el 53.4 pa 27.8 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -197.095 799.742 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/BN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/BN.W.40.3MP4LY

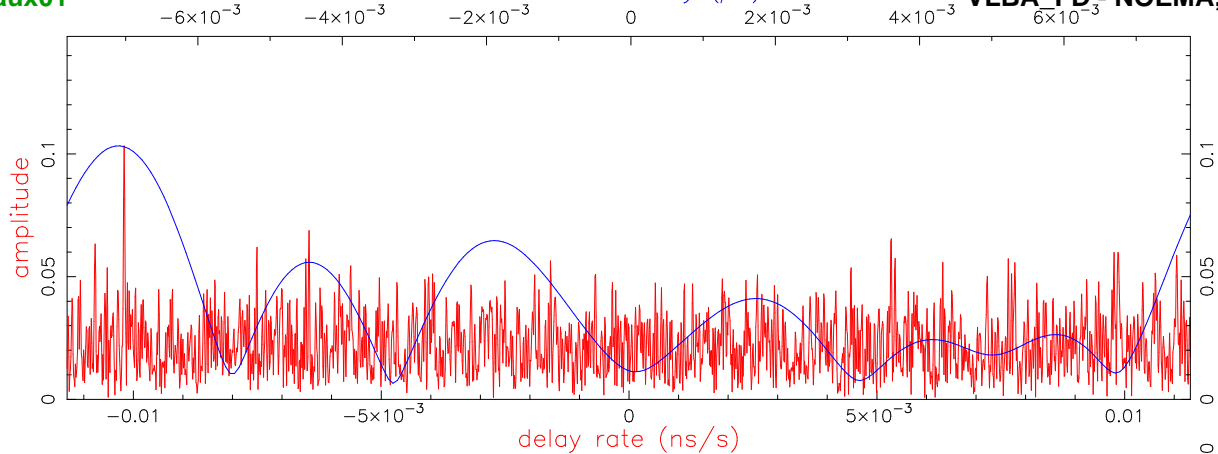
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, fN

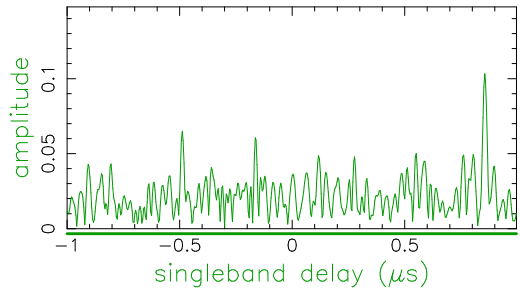
VLBA_FD- NOEMA, fgroup W, pol LR

multiband delay (μ s)

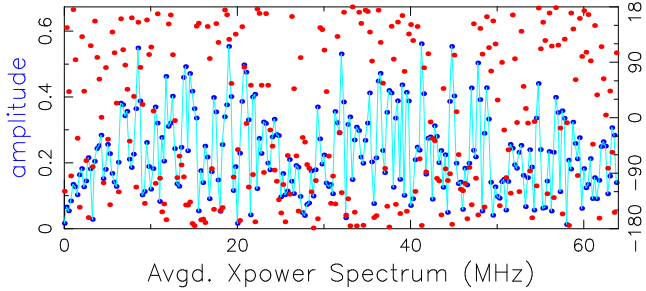


Fringe quality 0

SNR 5.8
Int time 419.795
Amp 0.148
Phase 43.3
PFD 8.3e-01
Delays (us)
SBD 0.855917
MBD -0.007093
Fringe rate (Hz)
-0.878294
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

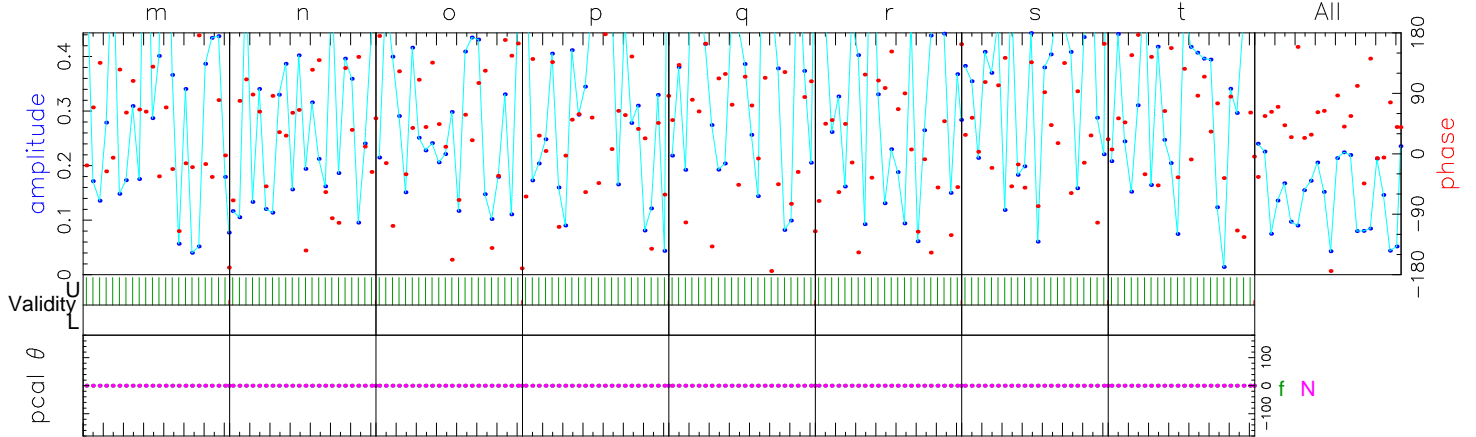


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2024:365:162308
2025:041:192935
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	0	0	0	0	0	0	0	0	Phase	43.3
N	0	0	0	0	0	0	0	0	Ampl.	0.2
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	476.1
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Mani PC	
									PC amp	

Group delay (usec) (SBD)	-1.24017348592E+04	Apriori delay (usec)	-1.24025871414E+04	Resid mbdelay (usec)	-7.09277E-03	+/-	1.9E-04
Sband delay (usec)	-1.24017312242E+04	Apriori clock (usec)	1.3414118E+01	Resid sbdelay (usec)	8.55917E-01	+/-	1.5E-03
Phase delay (usec)	-1.24025871400E+04	Apriori clockrate (us/s)	3.5920919E-08	Resid phdelay (usec)	1.39597E-06	+/-	6.4E-07
Delay rate (us/s)	1.70250416157E+00	Apriori rate (us/s)	1.70251435770E+00	Resid rate (us/s)	-1.01961E-05	+/-	2.6E-09
Total phase (deg)	-87.2	Apriori accel (us/s/s)	5.85615726098E-05	Resid phase (deg)	43.3	+/-	19.8

ph/seg (deg) 56.7 47.4 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.6 82.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.7 28.0 Inc. seg. avg. 0.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.3 48.8 Inc. frq. avg. 0.156 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 74.8 el 14.1 pa -62.2 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -10280.231 118.690 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/fN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/fN.W.108.3MP4LY

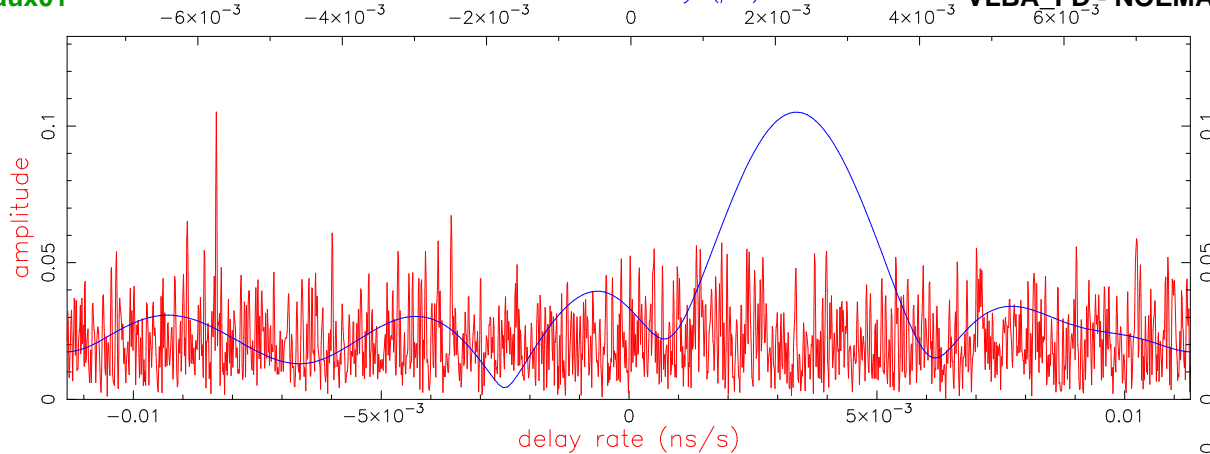
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, fN

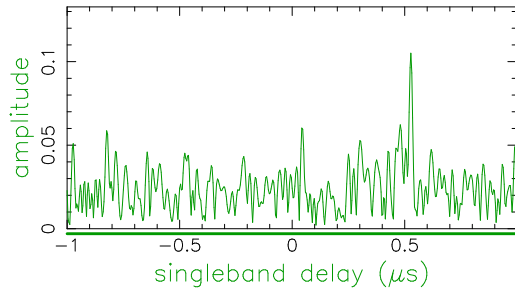
VLBA_FD- NOEMA, fgroup W, pol RL

multiband delay (μ s)

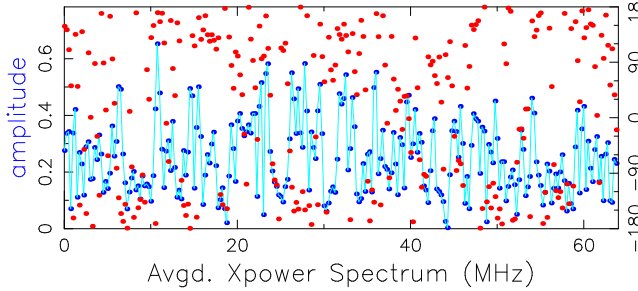


Fringe quality 0

SNR 5.9
 Int time 419.796
 Amp 0.133
 Phase 82.0
 PFD 6.2e-01
 Delays (us)
 SBD 0.527013
 MBD 0.002297
 Fringe rate (Hz)
 -0.718160
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

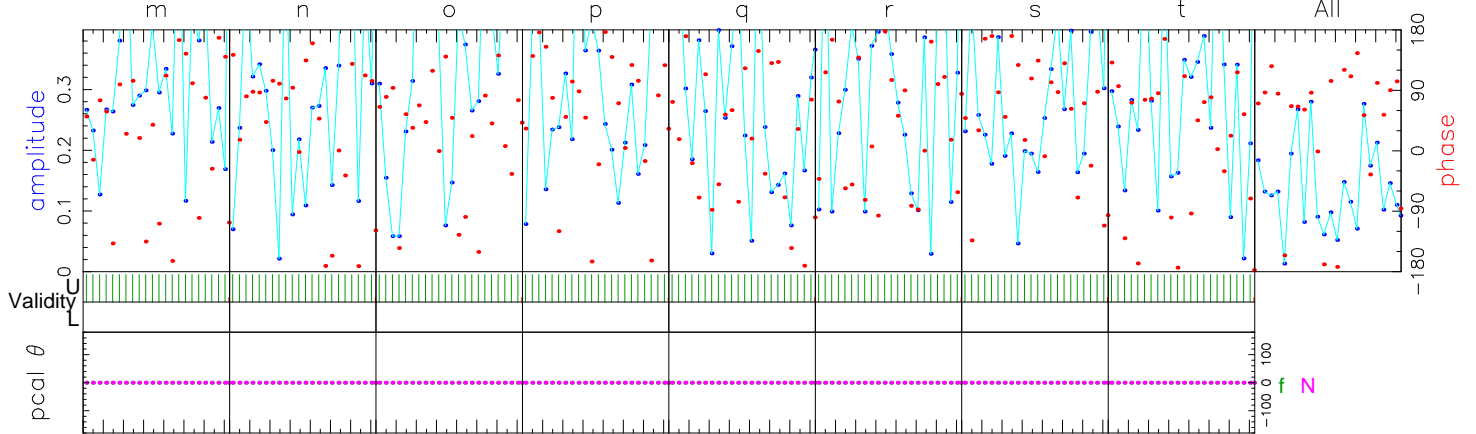


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192939
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-1.24020535945E+04	Apriori delay (usec)	-1.24025871414E+04	Resid mbdelay (usec)	2.29688E-03	+/-	1.8E-04
Sband delay (usec)	-1.24020601284E+04	Apriori clock (usec)	1.3414118E+01	Resid sbdelay (usec)	5.27013E-01	+/-	1.5E-03
Phase delay (usec)	-1.24025871388E+04	Apriori clockrate (us/s)	3.5920919E-08	Resid phdelay (usec)	2.64492E-06	+/-	6.3E-07
Delay rate (us/s)	1.70250602056E+00	Apriori rate (us/s)	1.70251435770E+00	Resid rate (us/s)	-8.33713E-06	+/-	2.6E-09
Total phase (deg)	-48.4	Apriori accel (us/s/s)	5.85615726098E-05	Resid phase (deg)	82.0	+/-	19.4

ph/seg (deg)	58.4	Theor.	46.6	Amplitude	0.133 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.8	Search (2048X32)	0.103	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	22.6	Inc. seg. avg.	0.132	Inc. frq. avg.	0.127	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	38.1	Inc. frq. avg.	0.127			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
							ion window (TEC) 0.00 0.00

f: az 74.8 el 14.1 pa -62.2 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -10280.231 118.690 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/fN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/fN.W.120.3MP4LY

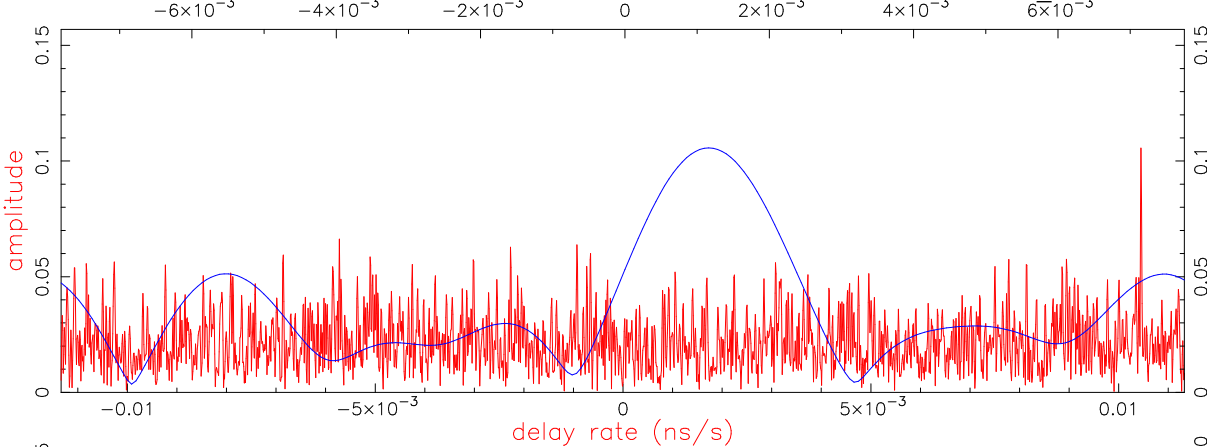
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, fN

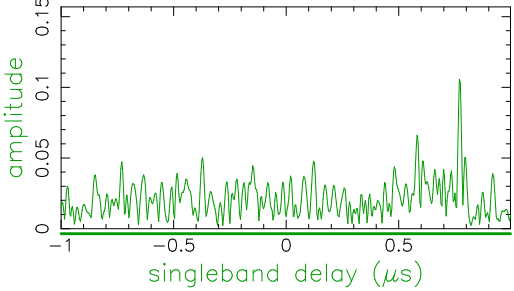
VLBA_FD- NOEMA, fgroup W, pol LL

multiband delay (μ s)

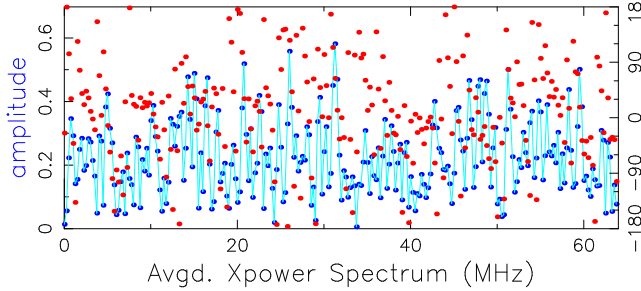


Fringe quality 0

SNR 6.0
 Int time 419.796
 Amp 0.157
 Phase -110.6
 PFD 3.7e-01
 Delays (us)
 SBD 0.771060
 MBD 0.001198
 Fringe rate (Hz) 0.901574
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

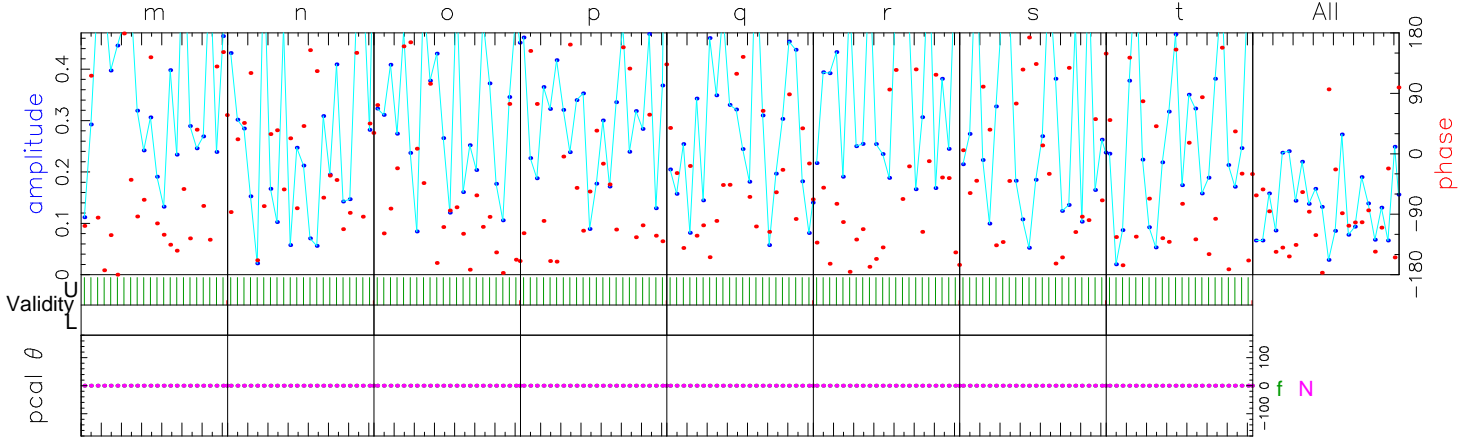


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build 2024:365:162308
 2025:041:192925
 2024:113:095956
 RA & Dec (J2000) 08h54m48.874931s +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.0	-49.2	-121.6	-130.2	-82.3	-116.5	-77.0	-154.1	Phase	-110.6
	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.1	Ampl.	0.2
	253.9	461.8	269.1	405.6	330.2	454.8	222.9	98.2	Sbd box	454.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-1.24018203181E+04	Apriori delay (usec)	-1.24025871414E+04	Resid mbdelay (usec)	1.19831E-03	+/-	1.8E-04
Sband delay (usec)	-1.24018160817E+04	Apriori clock (usec)	1.3414118E+01	Resid sbdelay (usec)	7.71060E-01	+/-	1.4E-03
Phase delay (usec)	-1.24025871450E+04	Apriori clockrate (us/s)	3.5920919E-08	Resid phdelay (usec)	-3.56712E-06	+/-	6.1E-07
Delay rate (us/s)	1.70252482408E+00	Apriori rate (us/s)	1.70251435770E+00	Resid rate (us/s)	1.04664E-05	+/-	2.5E-09
Total phase (deg)	-241.1	Apriori accel (us/s/s)	5.85615726098E-05	Resid phase (deg)	-110.6	+/-	19.0

ph/seg (deg)	54.6	Theor.	45.7	Amplitude	0.157 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.5	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	37.6	Inc. seg. avg.	0.154	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	28.3	Inc. frq. avg.	0.161	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011
f: az 74.8 el 14.1 pa -62.2		N: az 227.9 el 58.0 pa 34.5		Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No1205/fN..3MP4LY		nlags: 256 t_cohere infinite		simultaneous interpolator	
		Output file: /Exps/c241b/v2/3mm/1234/No1205/fN.W.64.3MP4LY					

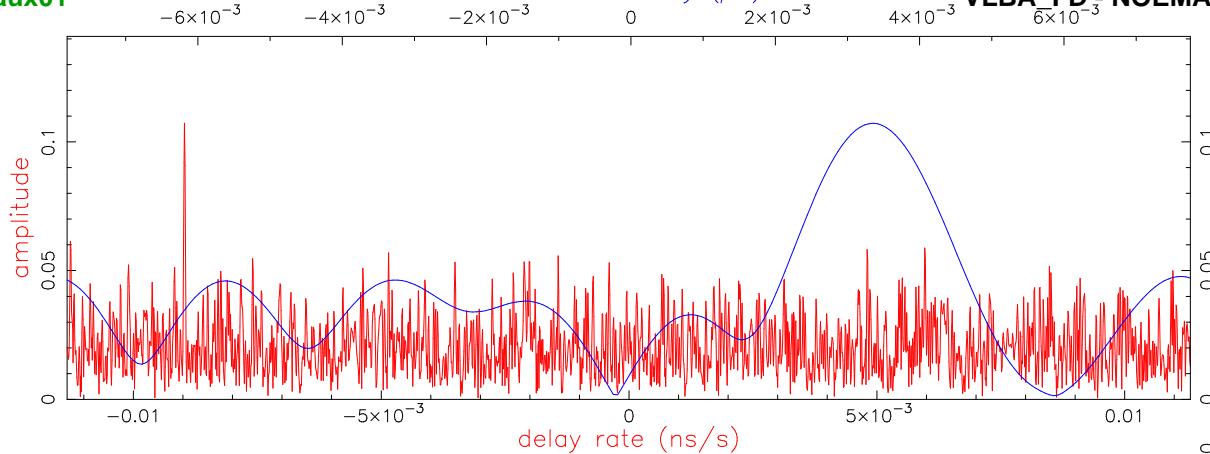
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, fN

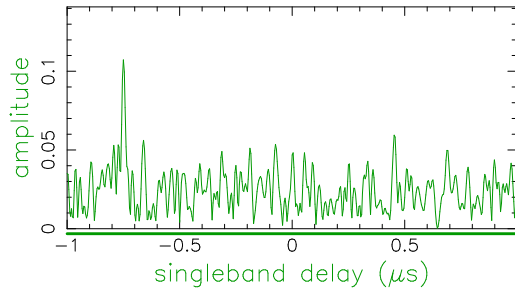
VLBA_FD - NOEMA, fgroup W, pol RR

multiband delay (μ s)

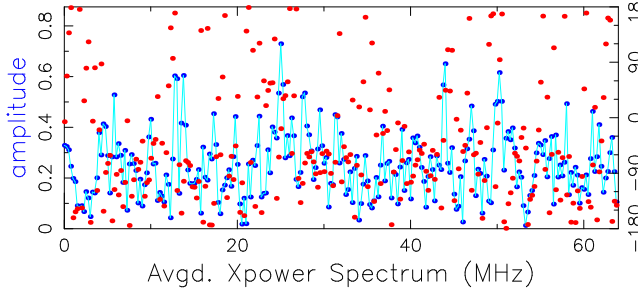


Fringe quality 0

SNR 6.0
 Int time 419.795
 Amp 0.141
 Phase -125.7
 PFD 3.8e-01
 Delays (us)
 SBD -0.749575
 MBD 0.003354
 Fringe rate (Hz)
 -0.773267
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

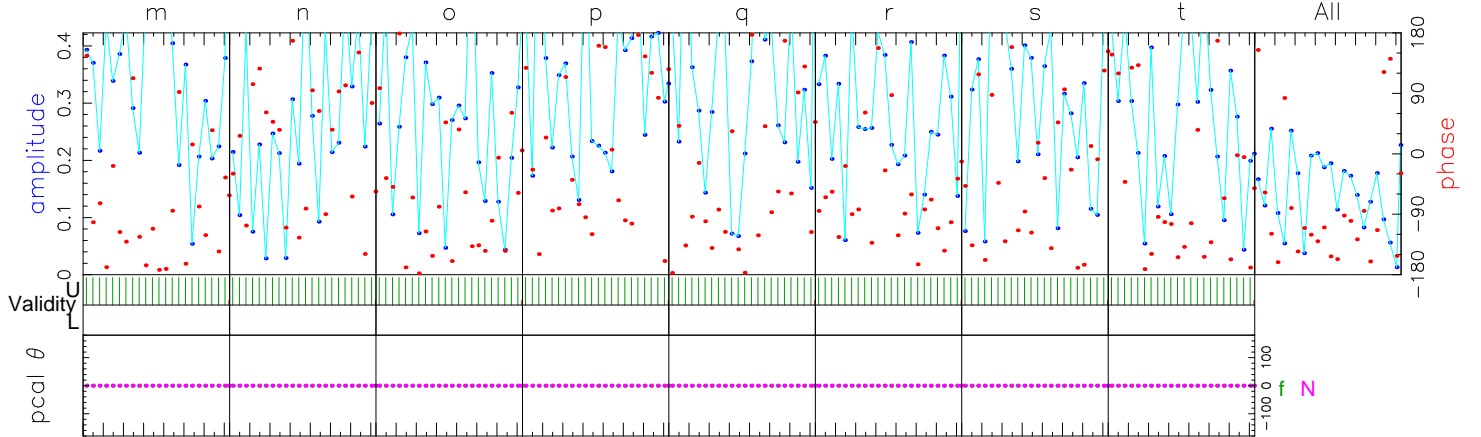


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192931
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-135.0	115.5	-104.3	-144.3	-118.6	-89.8	-151.0	-149.0	Phase	-125.7
	0.3	0.0	0.2	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	64.8	504.2	50.7	185.9	54.1	198.5	151.3	373.0	Sbd box	65.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	-1.2403337876E+04	Apriori delay (usec)	-1.24025871414E+04	Resid mbdelay (usec)	3.35379E-03	+/-	1.8E-04
Sband delay (usec)	-1.24033367167E+04	Apriori clock (usec)	1.3414118E+01	Resid sbdelay (usec)	-7.49575E-01	+/-	1.4E-03
Phase delay (usec)	-1.24025871455E+04	Apriori clockrate (us/s)	3.5920919E-08	Resid phdelay (usec)	-4.05320E-06	+/-	6.1E-07
Delay rate (us/s)	1.70250538084E+00	Apriori rate (us/s)	1.70251435770E+00	Resid rate (us/s)	-8.97686E-06	+/-	2.5E-09
Total phase (deg)	-256.1	Apriori accel (us/s/s)	5.85615726098E-05	Resid phase (deg)	-125.7	+/-	19.1

ph/seg (deg)	55.5	Theor.	45.7	Amplitude	0.141 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.0	Search (2048X32)	0.105	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	54.1	Inc. seg. avg.	0.143	Inc. frq. avg.	0.140	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	50.6	Inc. frq. avg.	0.140			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 74.8 el 14.1 pa -62.2 N: az 227.9 el 58.0 pa 34.5 u, v (fr/asec) -10280.231 118.690 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/fN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/fN.W.87.3MP4LY

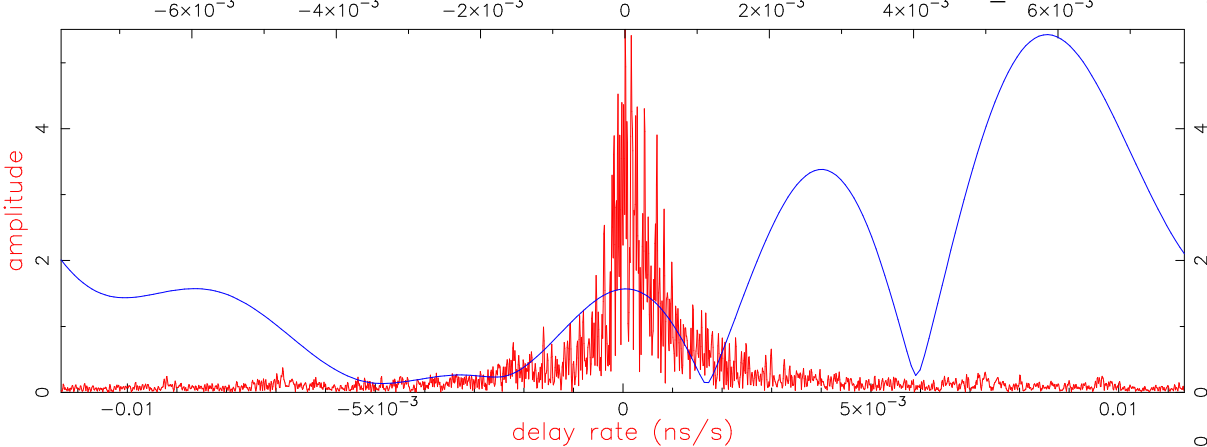
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, GN

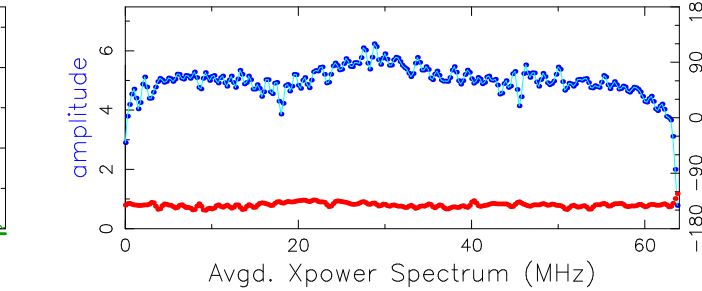
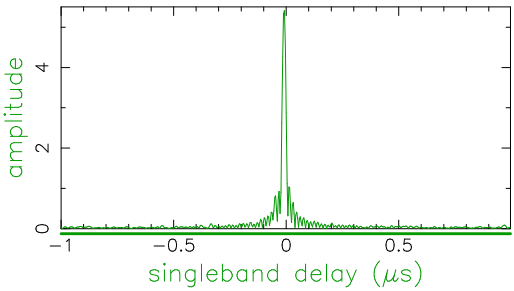
GBT_COLD - NOEMA, fgroup W, pol RR

multiband delay (μ s)



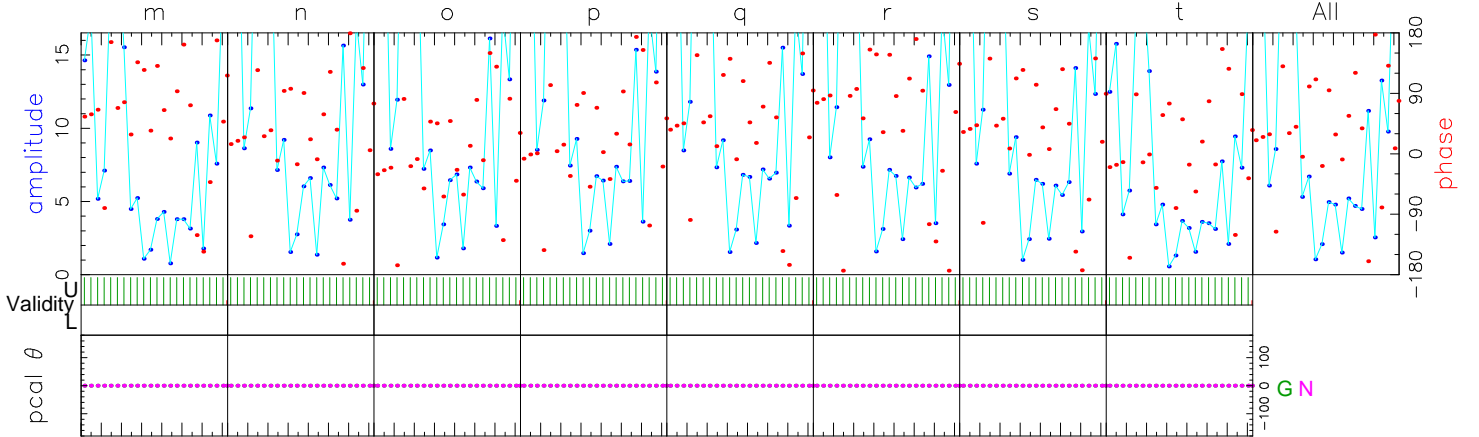
Fringe quality 2

SNR 308.5
 Int time 419.799
 Amp 5.507
 Phase 43.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.009448
 MBD 0.005767
 Fringe rate (Hz)
 0.014409
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192934
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	79.1	39.4	-5.7	16.5	59.6	98.6	53.7	0.8	Phase	43.4
	4.4	7.2	7.3	7.4	7.5	7.3	7.1	3.8	Ampl.	6.5
	252.6	254.3	254.7	254.8	255.0	254.8	254.3	252.4	Sbd box	254.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD) -5.54128130786E+03 Apriori delay (usec) -5.54127144991E+03 Resid mbdelay (usec) 5.76705E-03 +/- 3.5E-06
 Sband delay (usec) -5.54128089791E+03 Apriori clock (usec) -1.2669382E+00 Resid sbdelay (usec) -9.44800E-03 +/- 2.8E-05
 Phase delay (usec) -5.54127144851E+03 Apriori clockrate (us/s) 5.6084044E-08 Resid phdelay (usec) 1.39886E-06 +/- 1.2E-08
 Delay rate (us/s) 1.44270316633E+00 Apriori rate (us/s) 1.44270299906E+00 Resid rate (us/s) 1.67276E-07 +/- 4.9E-11
 Total phase (deg) -206.8 Apriori accel (us/s/s) 2.63222560194E-05 Resid phase (deg) 43.4 +/- 0.4

RMS Theor. Amplitude 5.507 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 75.5 0.9 Search (2048X32) 5.386 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 187.3 1.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 40.1 0.5 Inc. seg. avg. 10.735 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.0 0.9 Inc. frq. avg. 6.510 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 91.1 el 34.7 pa -56.5 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8749.729 120.013 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/GN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/GN.W.102.3MP4LY

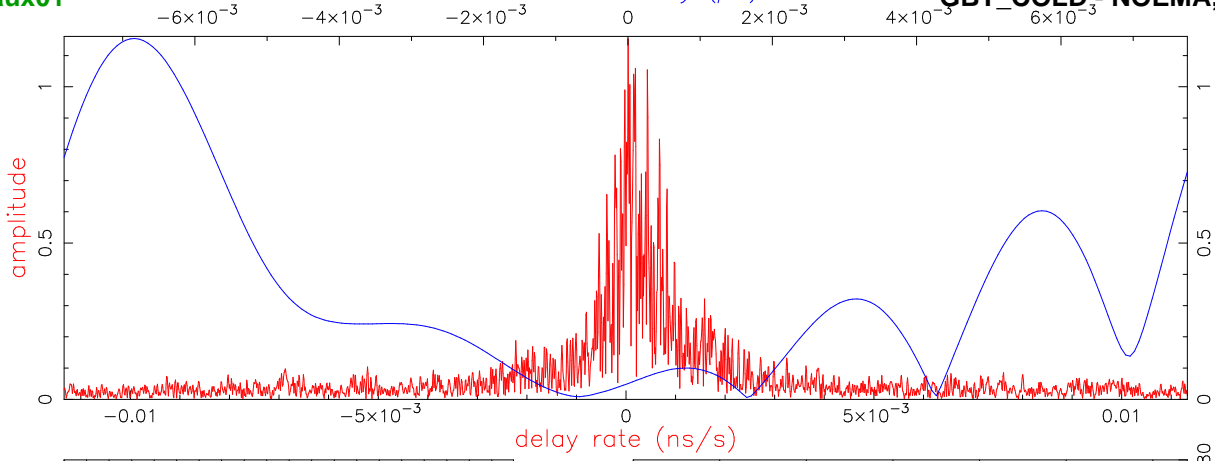
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, GN

GBT_COLD- NOEMA, fgroup W, pol LR

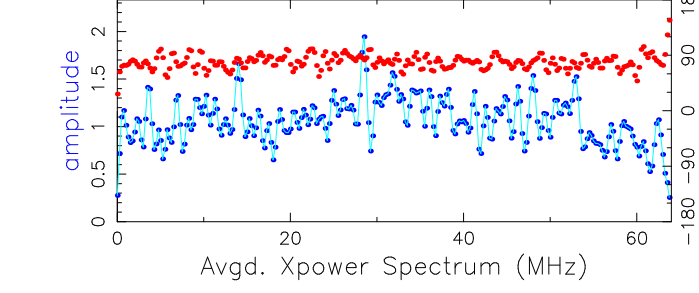
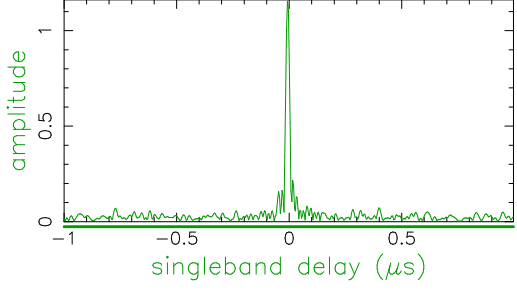
multiband delay (μ s)



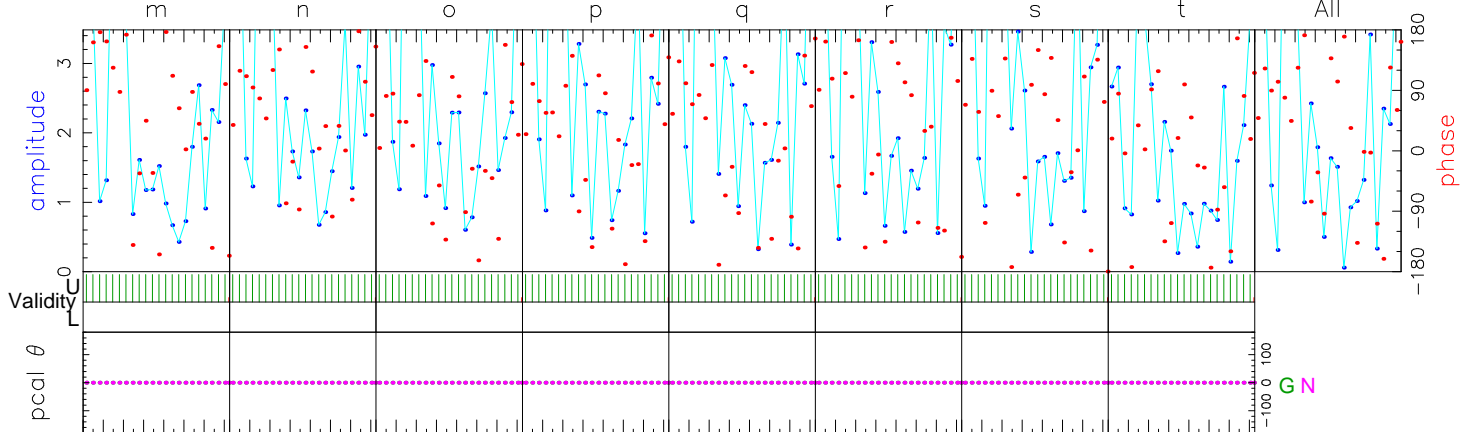
Fringe quality 2

SNR 65.1
 Int time 419.799
 Amp 1.161
 Phase 79.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.006756
 MBD -0.006797
 Fringe rate (Hz) 0.004200
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192938
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
G	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD)	-5.54127824656E+03	Apriori delay (usec)	-5.54127144991E+03	Resid mbdelay (usec)	-6.79665E-03	+/-	1.7E-05
Sband delay (usec)	-5.54127820566E+03	Apriori clock (usec)	-1.2669382E+00	Resid sbdelay (usec)	-6.75575E-03	+/-	1.3E-04
Phase delay (usec)	-5.54127144735E+03	Apriori clockrate (us/s)	5.6084044E-08	Resid phdelay (usec)	2.55663E-06	+/-	5.7E-08
Delay rate (us/s)	1.44270304781E+00	Apriori rate (us/s)	1.44270299906E+00	Resid rate (us/s)	4.87544E-08	+/-	2.3E-10
Total phase (deg)		Apriori accel (us/s/s)	2.63222560194E-05	Resid phase (deg)	79.3	+/-	1.8

ph/seg (deg) 89.4 4.2 Search (2048X32) 1.088 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 187.0 7.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.8 2.5 Inc. seg. avg. 2.336 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.1 4.3 Inc. frq. avg. 1.307 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 91.1 el 34.7 pa -56.5 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8749.729 120.013 simultaneous interpolator

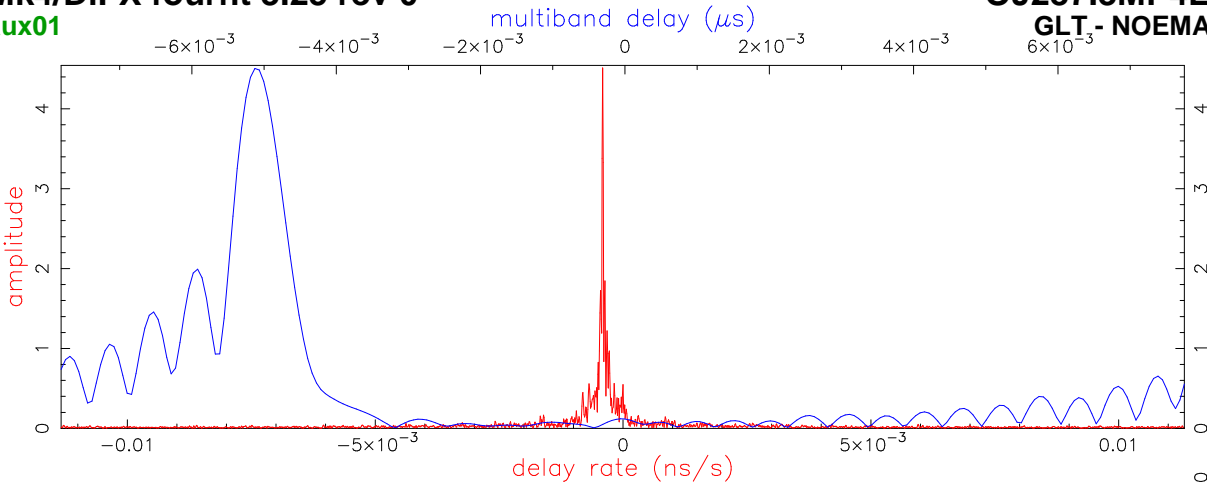
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/GN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/GN.W.116.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

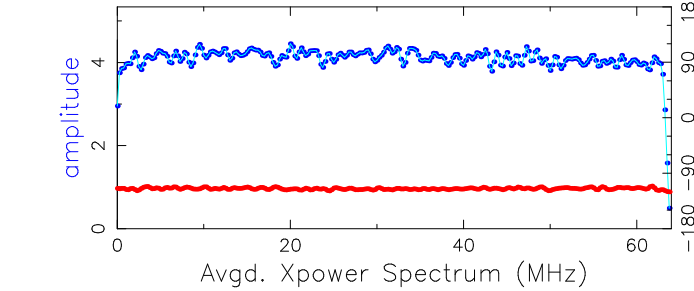
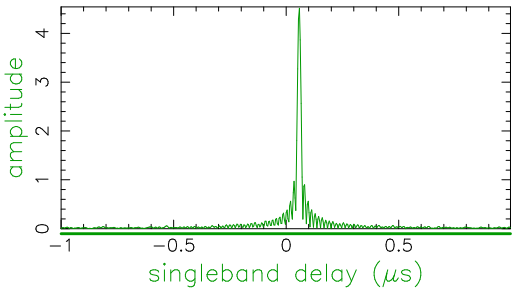
aux01

OJ287.3MP4LY, No1205, gN

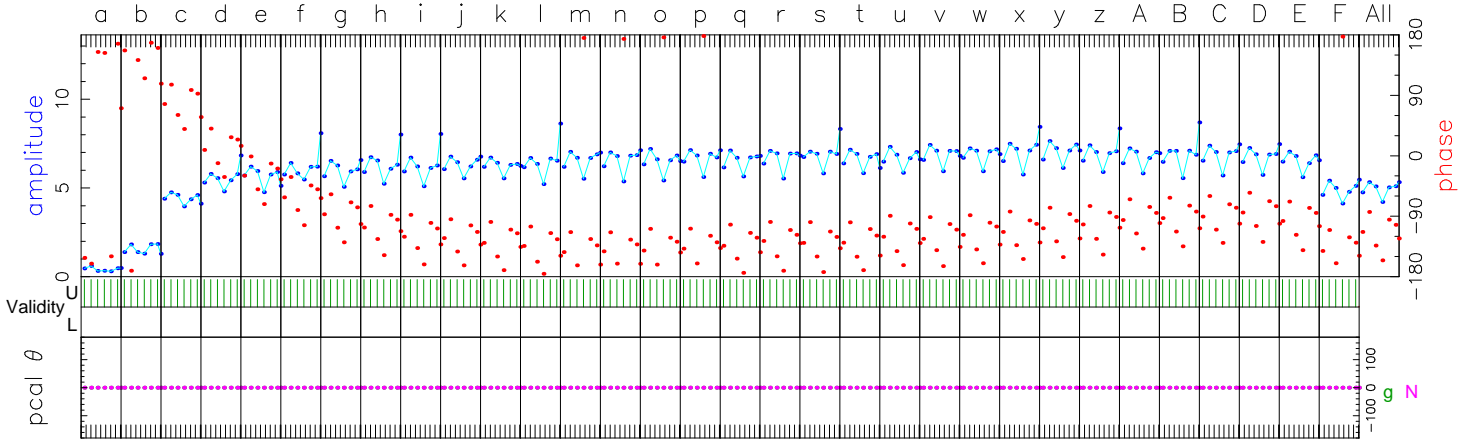
GLT - NOEMA, fgroup W, pol LL



Fringe quality 4
 Error code G
 SNR 508.9
 Int time 419.822
 Amp 4.544
 Phase -112.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.057623
 MBD -0.005108
 Fringe rate (Hz)
 -0.035946
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192944
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



	85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All			
Phase	-176.0	158.2	80.1	11.3	-28.6	-60.3	-86.0	-104.4	-117.2	-121.8	-127.4	-133.3	-141.8	-141.1	-138.6	-137.4	-131.6	-127.0	-129.1	-128.0	-118.9	-120.0	-116.8	-111.5	-106.0	-102.0	-94.3	-91.5	-88.0	-84.0	-95.9	-138.9	Phase	-112.2			
Ampl	0.4	1.5	4.1	5.0	5.3	5.5	5.4	5.6	5.6	5.8	5.7	5.8	6.0	5.9	6.1	6.0	6.1	6.2	6.1	6.1	6.3	6.3	6.4	6.4	6.3	6.1	6.2	6.3	6.1	6.0	4.4	4.4	Ampl	5.5			
Std box	271.7	271.0	270.6	271.1	271.4	271.4	271.5	271.5	271.7	271.7	271.8	271.7	271.7	271.8	271.7	271.8	271.8	271.7	271.7	271.9	272.0	271.7	271.8	271.9	271.8	271.8	271.9	271.8	271.9	271.5	270.6	271.8	Std box	271.8			
UL	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used			
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Manl PC			
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids	Tracks			
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids	Tracks			

Group delay (usec) (SBD)	-7.76409016858E+03	Apriori delay (usec)	-7.76414756077E+03	Resid mbdelay (usec)	-5.10781E-03	+/-	5.3E-07
Sband delay (usec)	-7.76408993802E+03	Apriori clock (usec)	1.3737644E+01	Resid sbdelay (usec)	5.76227E-02	+/-	1.7E-05
Phase delay (usec)	-7.76414756439E+03	Apriori clockrate (us/s)	7.7002293E-07	Resid phdelay (usec)	-3.61667E-06	+/-	7.3E-09
Delay rate (us/s)	7.09650914481E-01	Apriori rate (us/s)	7.09651331776E-01	Resid rate (us/s)	-4.17296E-07	+/-	3.0E-11
Total phase (deg)	-70.7	Apriori accel (us/s/s)	5.18054805297E-05	Resid phase (deg)	-112.2	+/-	0.2

ph/seg (deg)	RMS 24.3	Theor. 0.3	Amplitude Search (2048X128)	4.544 +/- 0.009	4.345	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	11.5	0.5	Interp.	0.000	4.924	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	49.8	0.6	Inc. seg. avg.	4.924	5.527	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.9	1.1	Inc. frq. avg.	5.527		Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

g: az 125.4 el 28.3 pa -11.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -4246.939 3755.848 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/gN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/gN.W.131.3MP4LY

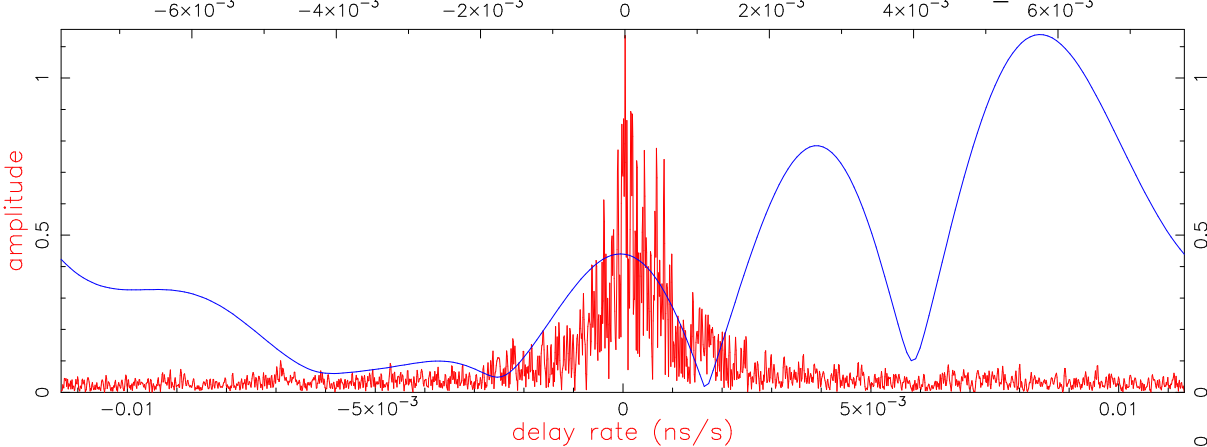
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, GN

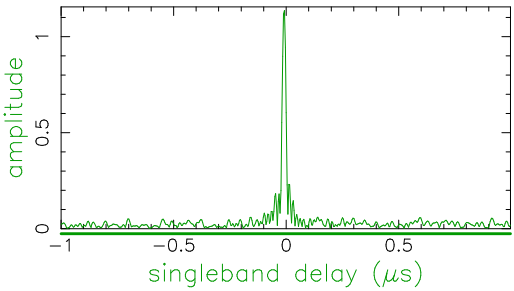
GBT_COLD- NOEMA, fgroup W, pol RL

multiband delay (μ s)

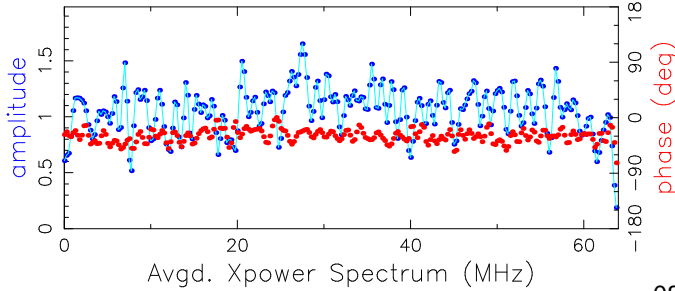


Fringe quality 2

SNR 64.7
 Int time 419.800
 Amp 1.155
 Phase 156.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.009439
 MBD 0.005662
 Fringe rate (Hz)
 0.004074
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

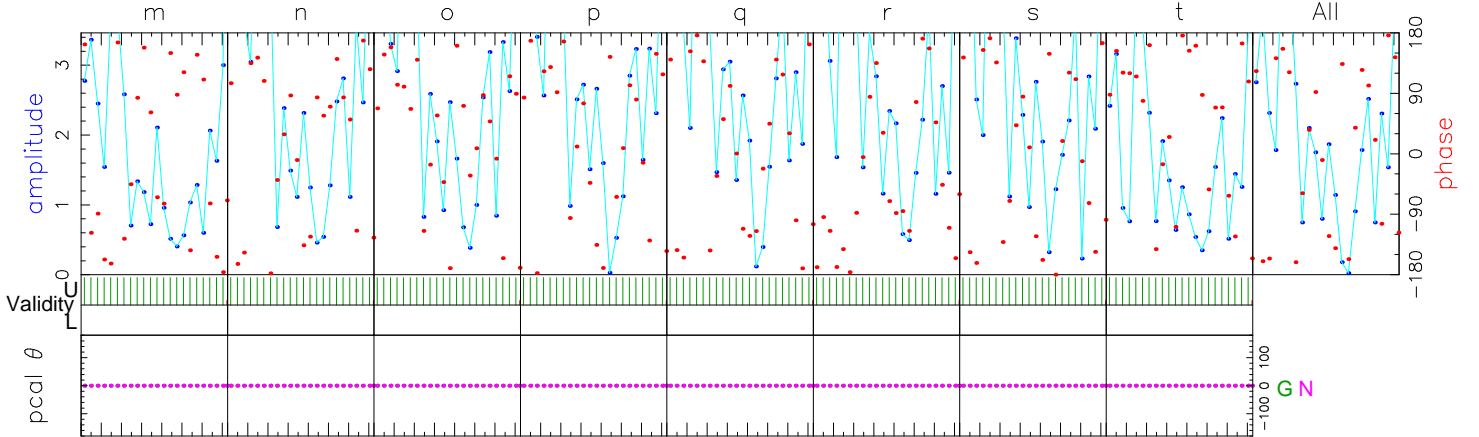


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192944
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.6	146.9	105.9	130.9	170.4	-140.8	172.3	117.3	Phase	156.8
	1.0	1.6	1.7	1.5	1.5	1.4	1.6	0.9	Ampl.	1.4
	252.5	254.3	254.6	254.8	255.2	254.8	254.4	252.4	Sbd box	254.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-5.54128141337E+03	Apriori delay (usec)	-5.54127144991E+03	Resid mbdelay (usec)	5.66154E-03	+/-	1.7E-05
Sband delay (usec)	-5.54128088866E+03	Apriori clock (usec)	-1.2669382E+00	Resid sbdelay (usec)	-9.43875E-03	+/-	1.3E-04
Phase delay (usec)	-5.54127144485E+03	Apriori clockrate (us/s)	5.6084044E-08	Resid phdelay (usec)	5.05671E-06	+/-	5.7E-08
Delay rate (us/s)	1.44270304635E+00	Apriori rate (us/s)	1.44270299906E+00	Resid rate (us/s)	4.72991E-08	+/-	2.4E-10
Total phase (deg)	-93.4	Apriori accel (us/s/s)	2.63222560194E-05	Resid phase (deg)	156.8	+/-	1.8

ph/seg (deg)	78.7	RMS	4.2	Theor.	4.2	Amplitude	1.155 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	146.3	Search (2048X32)	1.100	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	44.5	Inc. seg. avg.	2.092	Inc. frq. avg.	1.419	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	33.4	Inc. frq. avg.	1.419			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

G: az 91.1 el 34.7 pa -56.5 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8749.729 120.013 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/GN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/GN.W.132.3MP4LY

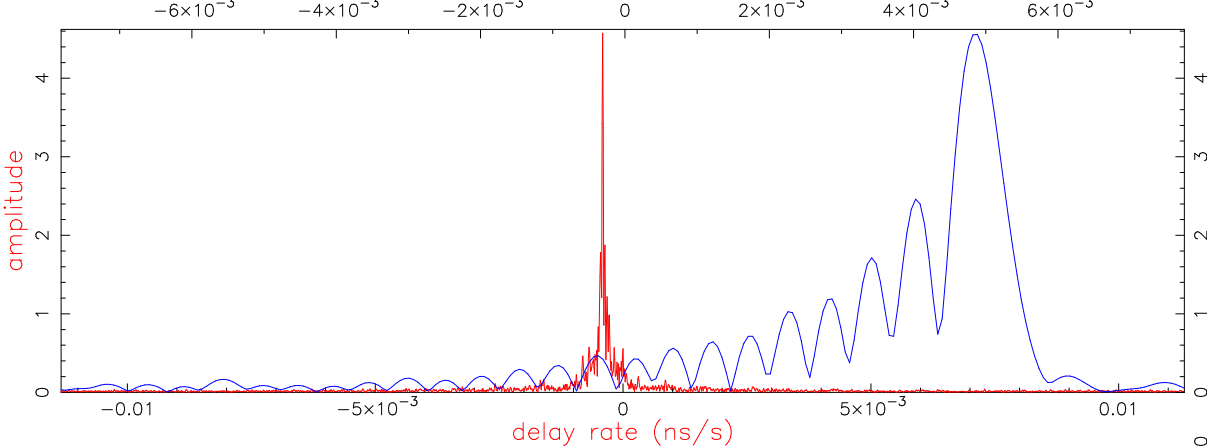
Mk4/DiFX fourfit 3.25 rev 0

aux01

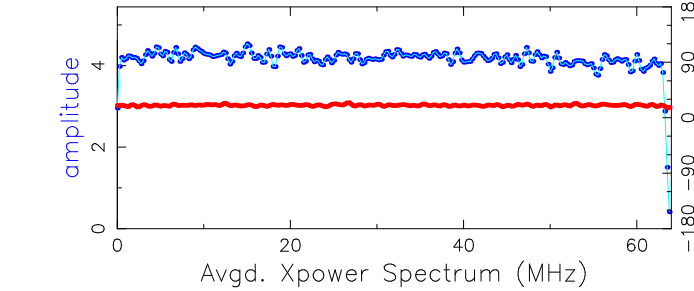
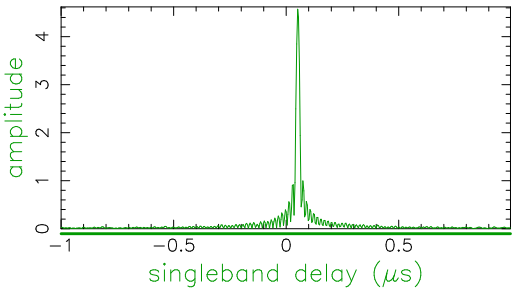
OJ287.3MP4LY, No1205, gN

GLT - NOEMA, fgroup W, pol RR

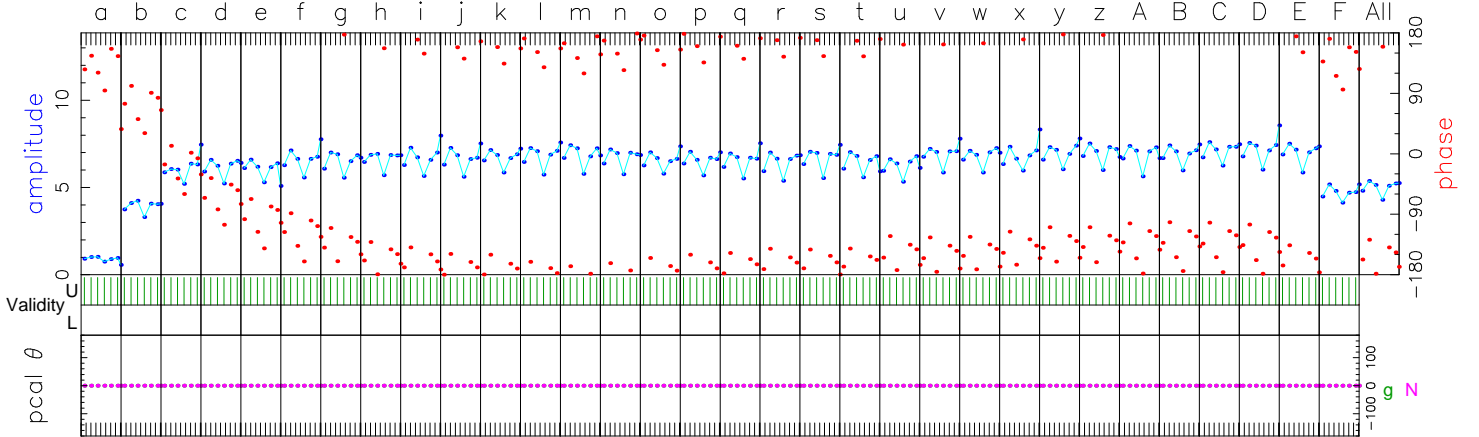
multiband delay (μ s)



Fringe quality 4
 Error code G
 SNR 517.7
 Int time 419.820
 Amp 4.622
 Phase -156.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.052037
 MBD 0.004857
 Fringe rate (Hz)
 -0.035924
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193000
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



85244.00	85308.00	85372.00	85436.00	85500.00	85564.00	85628.00	85692.00	85756.00	85820.00	85884.00	85948.00	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	86524.00	86588.00	86652.00	86716.00	86780.00	86844.00	86908.00	86972.00	87036.00	87100.00	87164.00	87228.00	Freq (MHz)	All			
132.6	73.6	-16.0	-63.2	-95.4	-116.3	-139.6	-159.0	-168.0	-178.3	179.7	172.3	164.3	169.3	175.9	-179.5	-175.7	-170.5	-170.1	-169.2	-152.2	-154.0	-151.6	-145.2	-139.2	-132.2	-131.8	-132.0	-134.8	-164.8	140.0	Phase	-156.5				
0.9	3.6	5.5	5.7	5.6	6.0	6.0	6.1	6.1	6.0	6.1	6.2	6.3	6.1	5.9	6.0	5.9	6.1	5.9	5.7	6.3	6.2	6.1	6.3	6.4	6.3	6.3	6.5	6.4	6.4	4.2	Ampl	5.8				
269.8	269.3	269.4	269.8	270.1	269.9	270.1	270.1	270.2	270.3	270.3	270.4	270.2	270.3	270.5	270.3	270.3	270.3	270.3	270.4	270.6	270.2	270.3	270.4	270.3	270.3	270.4	270.2	270.2	269.8	269.3	Std box	270.3				
UL	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used				
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs				
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Manl PC			
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids			
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids			

Group delay (usec) (SBD)	-7.76409582875E+03	Apriori delay (usec)	-7.76414756077E+03	Resid mbdelay (usec)	4.85702E-03	+/-	5.2E-07
Sband delay (usec)	-7.76409552377E+03	Apriori clock (usec)	1.3737644E+01	Resid sbdelay (usec)	5.20370E-02	+/-	1.7E-05
Phase delay (usec)	-7.76414756582E+03	Apriori clockrate (us/s)	7.7002293E-07	Resid phdelay (usec)	-5.04725E-06	+/-	7.1E-09
Delay rate (us/s)	7.09650914731E-01	Apriori rate (us/s)	7.09651331776E-01	Resid rate (us/s)	-4.17046E-07	+/-	2.9E-11
Total phase (deg)	-115.1	Apriori accel (us/s/s)	5.18054805297E-05	Resid phase (deg)	-156.5	+/-	0.2

ph/seg (deg)	RMS	Theor.	Amplitude	4.622 +/- 0.009	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	24.6	0.3	Search (2048X128)	4.321	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	11.2	0.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	48.4	0.6	Inc. seg. avg.	4.998	Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
	33.9	1.1	Inc. frq. avg.	5.780	Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

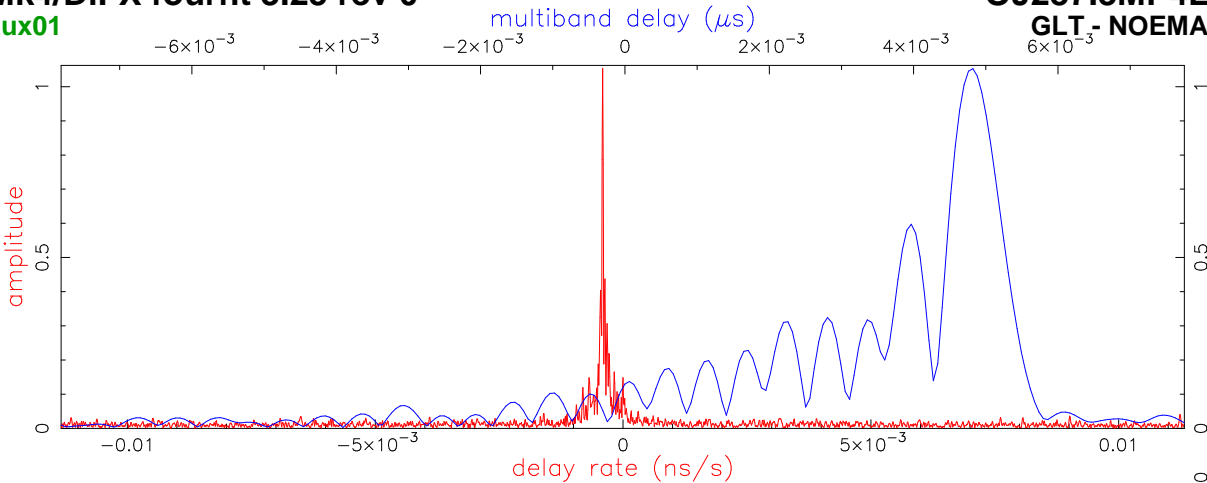
g: az 125.4 el 28.3 pa -11.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -4246.939 3755.848 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/gN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/gN.W.188.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

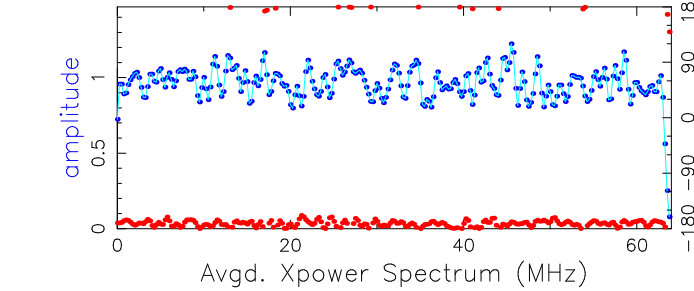
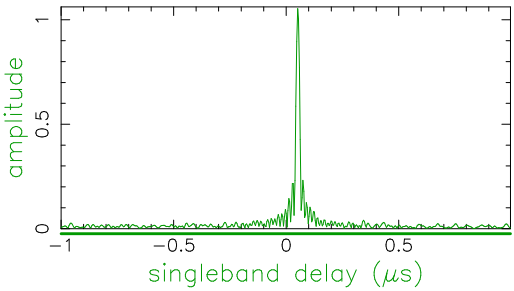
aux01

OJ287.3MP4LY, No1205, gN

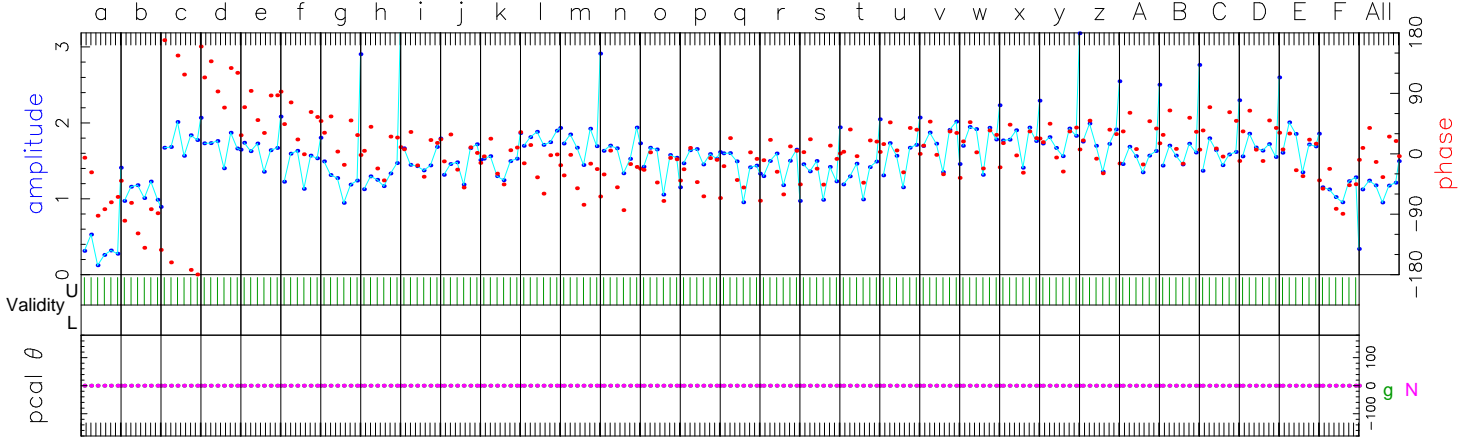
GLT- NOEMA, fgroup W, pol RL



Fringe quality 4
 Error code G
 SNR 119.0
 Int time 419.822
 Amp 1.062
 Phase 9.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.051855
 MBD 0.004808
 Fringe rate (Hz)
 -0.035966
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2025:041:193035
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All		
-49.4	-99.4	167.4	111.8	71.1	45.6	27.1	7.6	5.2	-5.3	-4.5	-15.7	-31.0	-29.7	-21.6	-21.8	-12.7	-7.5	-4.4	7.9	22.6	18.6	20.4	16.3	19.0	19.4	30.4	30.2	37.7	31.2	4.3	-54.4	Phase	9.6		
0.3	1.0	1.6	1.6	1.5	1.3	1.1	1.1	1.4	1.3	1.3	1.6	1.6	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.4	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.4	1.5	1.6	1.0	Ampl	1.4		
270.7	269.1	269.6	269.7	270.0	270.0	270.2	270.0	270.1	270.4	270.3	270.1	270.2	270.4	270.3	270.4	270.4	270.4	270.3	270.4	270.5	270.2	270.1	270.4	270.1	270.3	270.5	270.3	270.1	270.2	269.8	269.2	Std box	270.3		
UL	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	APs used			
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase			
gN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Manl PC			
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids		

Group delay (usec) (SBD) -7.76409587802E+03 Apriori delay (usec) -7.76414756077E+03 Resid mbdelay (usec) 4.80775E-03 +/- 2.3E-06
 Sband delay (usec) -7.76409570577E+03 Apriori clock (usec) 1.3737644E+01 Resid sbdelay (usec) 5.18550E-02 +/- 7.2E-05
 Phase delay (usec) -7.76414756046E+03 Apriori clockrate (us/s) 7.7002293E-07 Resid phdelay (usec) 3.08487E-07 +/- 3.1E-08
 Delay rate (us/s) 7.09650914252E-01 Apriori rate (us/s) 7.09651331776E-01 Resid rate (us/s) -4.17525E-07 +/- 1.3E-10
 Total phase (deg) -309.0 Apriori accel (us/s/s) 5.18054805297E-05 Resid phase (deg) 9.6 +/- 1.0

ph/seg (deg) RMS 24.5 Theor. 1.3 Amplitude 1.062 +/- 0.009 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 12.3 2.2 Search (2048X128) 1.018 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.4 2.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.4 4.8 Inc. seg. avg. 1.149 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 8192 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

g: az 125.4 el 28.3 pa -11.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -4246.939 3755.848 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/gN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/gN.W.300.3MP4LY

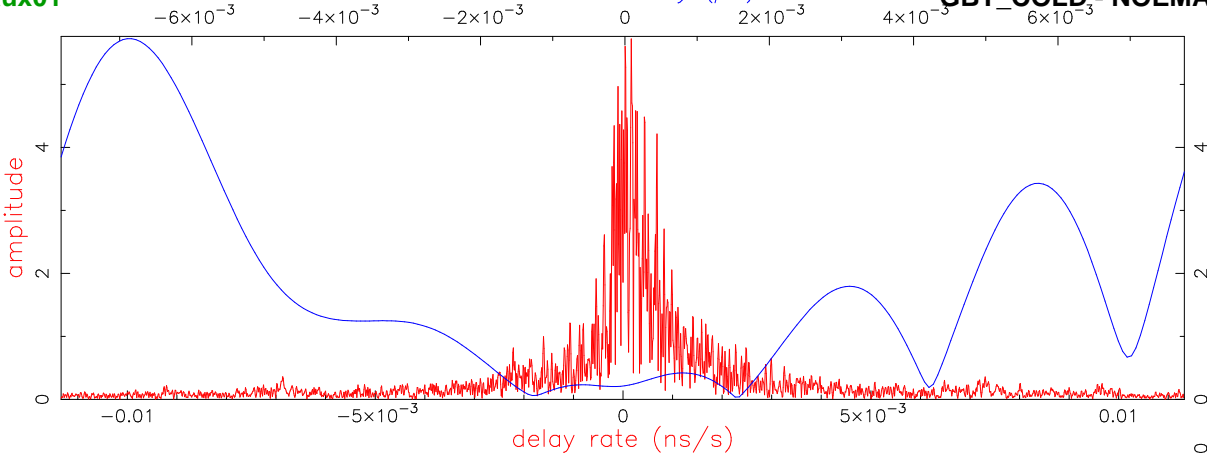
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, GN

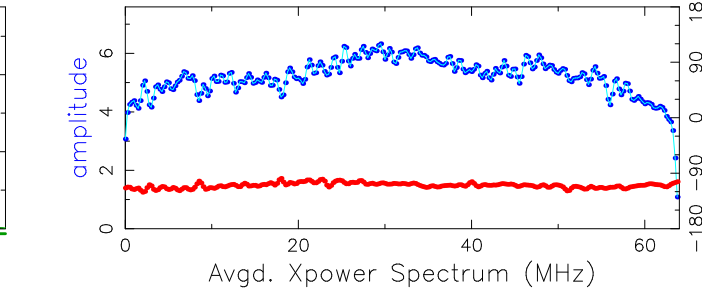
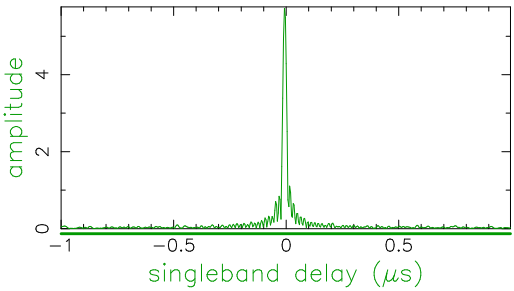
GBT_COLD₃- NOEMA, fgroup W, pol LL

multiband delay (μ s)

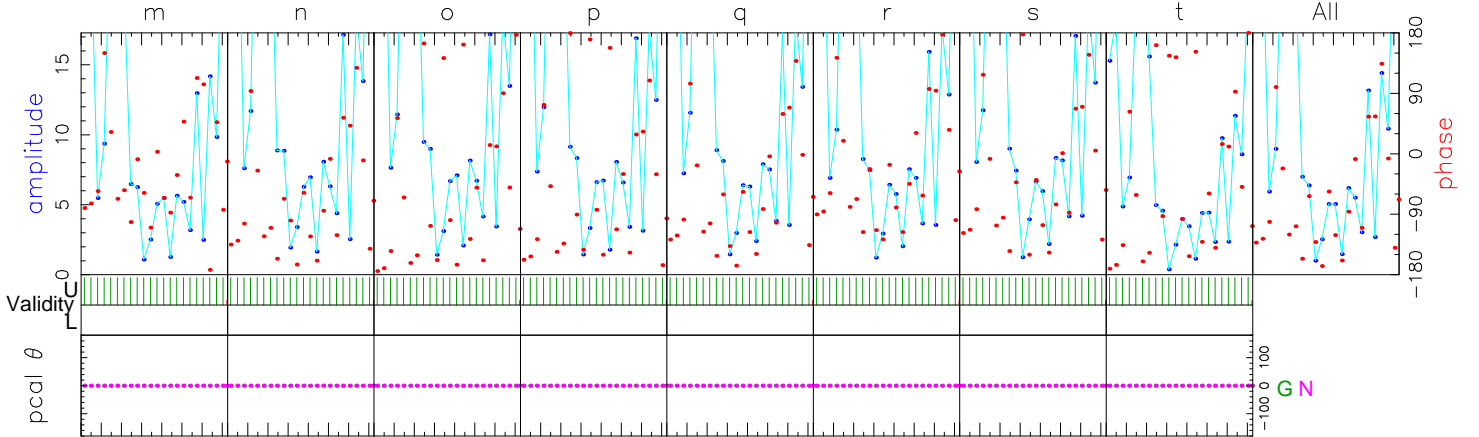


Fringe quality 2

SNR 322.9
 Int time 419.800
 Amp 5.763
 Phase -108.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.006739
 MBD -0.006820
 Fringe rate (Hz) 0.014354
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192930
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-55.2	-110.4	-151.5	-135.3	-104.9	-67.6	-95.7	-147.3	Phase	-108.9
	5.6	7.6	7.6	7.2	7.2	6.8	7.4	4.2	Ampl.	6.7
	253.3	255.3	255.3	255.6	255.6	255.6	255.2	253.5	Sbd box	255.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD) -5.54127826973E+03 Apriori delay (usec) -5.54127144991E+03 Resid mbdelay (usec) -6.81982E-03 +/- 3.4E-06
 Sband delay (usec) -5.54127818941E+03 Apriori clock (usec) -1.2669382E+00 Resid sbdelay (usec) -6.73950E-03 +/- 2.7E-05
 Phase delay (usec) -5.54127145342E+03 Apriori clockrate (us/s) 5.6084044E-08 Resid phdelay (usec) -3.51037E-06 +/- 1.1E-08
 Delay rate (us/s) 1.44270316569E+00 Apriori rate (us/s) 1.44270299906E+00 Resid rate (us/s) 1.66637E-07 +/- 4.7E-11
 Total phase (deg) -359.0 Apriori accel (us/s/s) 2.63222560194E-05 Resid phase (deg) -108.9 +/- 0.4

RMS Theor. Amplitude 5.763 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 78.2 0.9 Search (2048X32) 5.698 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 195.9 1.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 38.2 0.5 Inc. seg. avg. 11.620 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 25.4 0.9 Inc. frq. avg. 6.702 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 91.1 el 34.7 pa -56.5 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8749.729 120.013 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/GN...3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/GN.W.83.3MP4LY

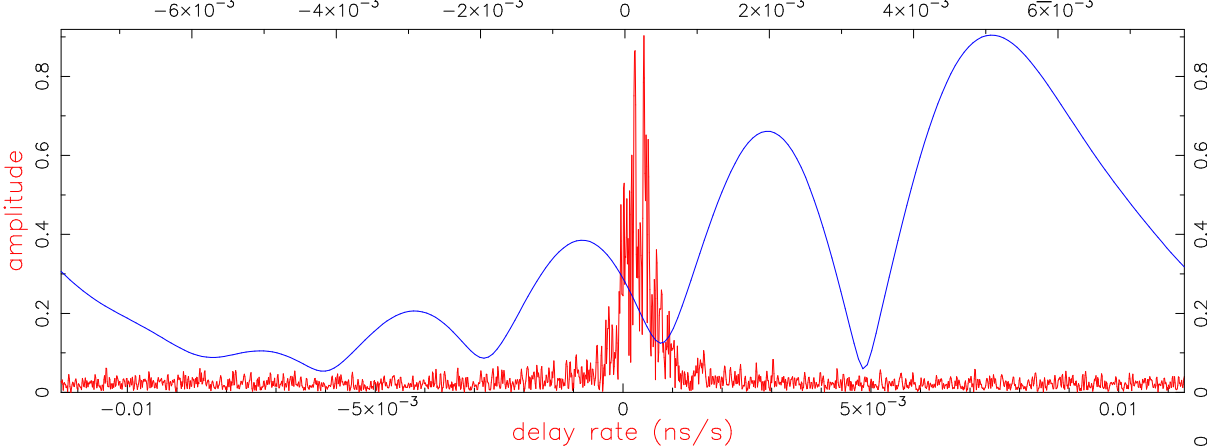
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, IN

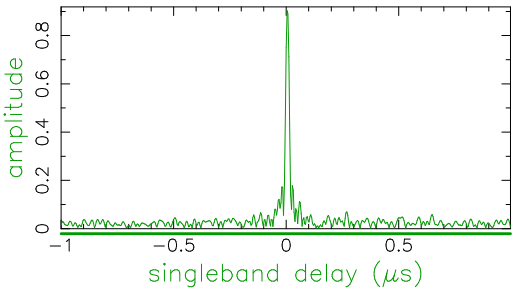
VLBA LA- NOEMA, fgroup W, pol LL

multiband delay (μ s)

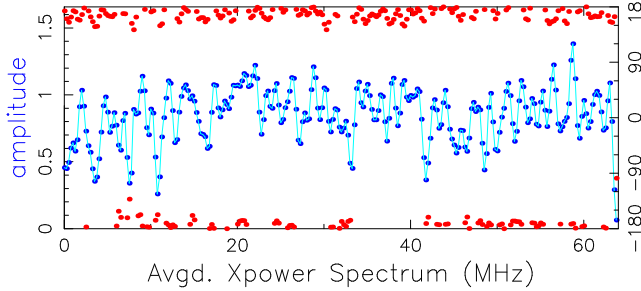


Fringe quality 2

SNR 51.5
Int time 419.822
Amp 0.919
Phase 178.6
PFD 0.0e+00
Delays (us)
SBD 0.005557
MBD 0.005162
Fringe rate (Hz) 0.036027
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

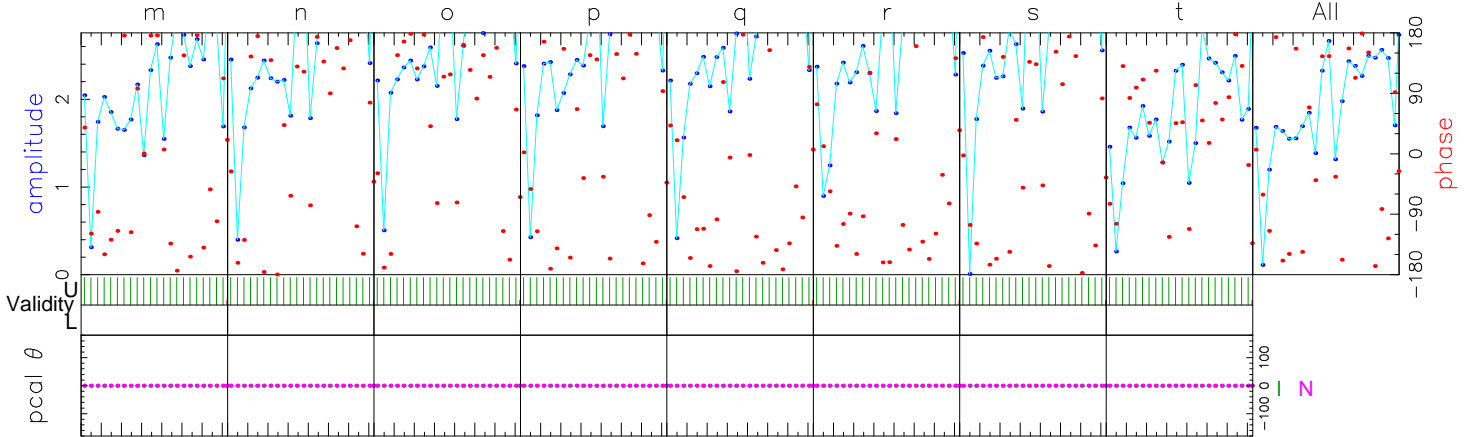


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build 2024:365:162308
2025:041:192945
2024:113:095956
RA & Dec (J2000) 08h54m48.874931s +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
I	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		

Group delay (usec) (SBD)	-1.26187183354E+04	Apriori delay (usec)	-1.26187234973E+04	Resid mbdelay (usec)	5.16190E-03	+/-	2.1E-05
Sband delay (usec)	-1.26187179403E+04	Apriori clock (usec)	5.0400143E+00	Resid sbdelay (usec)	5.55700E-03	+/-	1.7E-04
Phase delay (usec)	-1.26187234916E+04	Apriori clockrate (us/s)	-2.4830008E-07	Resid phdelay (usec)	5.75965E-06	+/-	7.2E-08
Delay rate (us/s)	1.63567957902E+00	Apriori rate (us/s)	1.63567916078E+00	Resid rate (us/s)	4.18240E-07	+/-	3.0E-10
Total phase (deg)	156.6	Apriori accel (us/s/s)	6.25635120751E-05	Resid phase (deg)	178.6	+/-	2.2

ph/seg (deg)	RMS 79.2	Theor. 5.3	Amplitude Search (2048X32)	0.919 +/- 0.018	0.885	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	123.7	9.3	Interp.	0.000	0.885	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	55.2	3.1	Inc. seg. avg.	1.882	0.885	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.1	5.5	Inc. frq. avg.	1.197	0.885	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 74.9 el 13.6 pa -56.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -9867.690 855.800 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/IN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/IN.W.135.3MP4LY

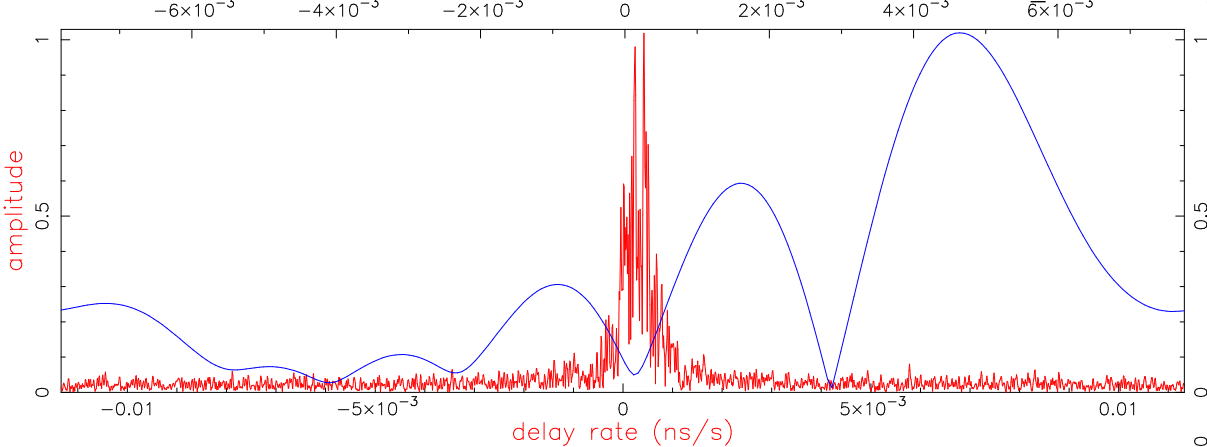
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, IN

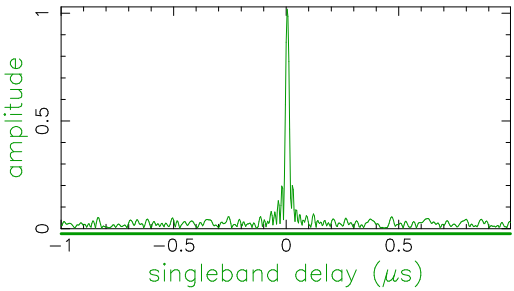
VLBA_LA - NOEMA, fgroup W, pol RR

multiband delay (μ s)

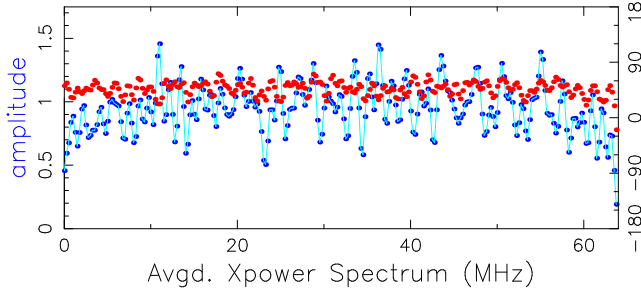


Fringe quality 2

SNR 57.7
 Int time 419.821
 Amp 1.030
 Phase 52.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.005177
 MBD 0.004701
 Fringe rate (Hz) 0.036090
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

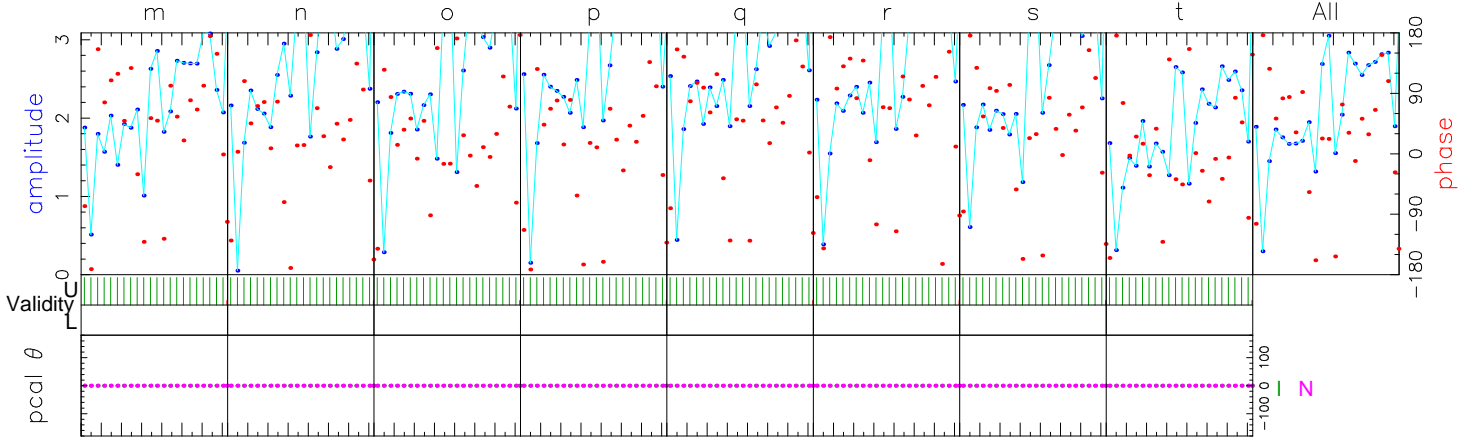


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192949
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	83.5	44.3	14.9	41.4	76.2	98.5	58.4	-11.5	Phase	52.5
	1.0	1.3	1.3	1.4	1.3	1.2	1.2	0.9	Ampl.	1.2
	256.3	258.3	258.6	258.6	258.6	258.6	258.0	256.2	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	-1.26187187962E+04	Apriori delay (usec)	-1.26187234973E+04	Resid mbdelay (usec)	4.70115E-03	+/-	1.9E-05
Sband delay (usec)	-1.26187183206E+04	Apriori clock (usec)	5.0400143E+00	Resid sbdelay (usec)	5.17675E-03	+/-	1.5E-04
Phase delay (usec)	-1.26187234957E+04	Apriori clockrate (us/s)	-2.4830008E-07	Resid phdelay (usec)	1.69201E-06	+/-	6.4E-08
Delay rate (us/s)	1.63567957975E+00	Apriori rate (us/s)	1.63567916078E+00	Resid rate (us/s)	4.18965E-07	+/-	2.6E-10
Total phase (deg)	30.4	Apriori accel (us/s/s)	6.25635120751E-05	Resid phase (deg)	52.5	+/-	2.0

ph/seg (deg) 78.9 4.8 Search (2048X32) 0.995 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 121.9 8.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.6 2.8 Inc. seg. avg. 2.090 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.7 4.9 Inc. frq. avg. 1.197 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 I: az 74.9 el 13.6 pa -56.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -9867.690 855.800 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/IN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/IN.W.143.3MP4LY

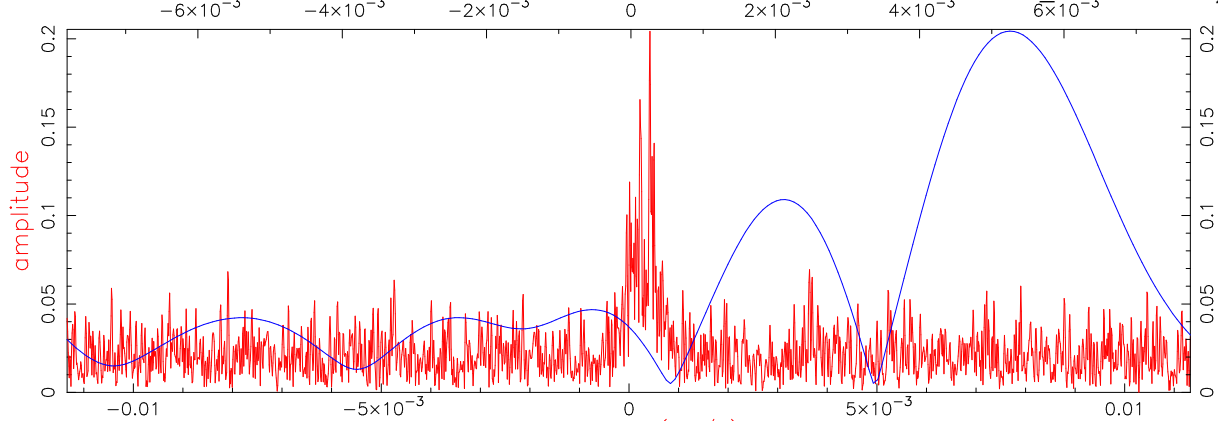
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, IN

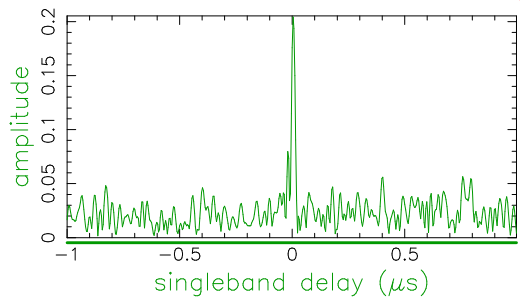
VLBA LA- NOEMA, fgroup W, pol LR

multiband delay (μ s)

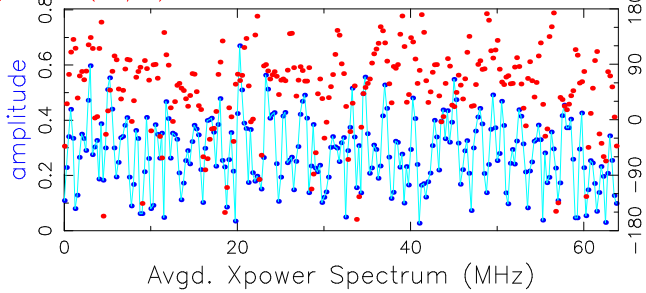


Fringe quality 9

SNR 11.5
 Int time 419.821
 Amp 0.205
 Phase 61.0
 PFD 6.6e-22
 Delays (us)
 SBD 0.004767
 MBD 0.005290
 Fringe rate (Hz) 0.036291
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

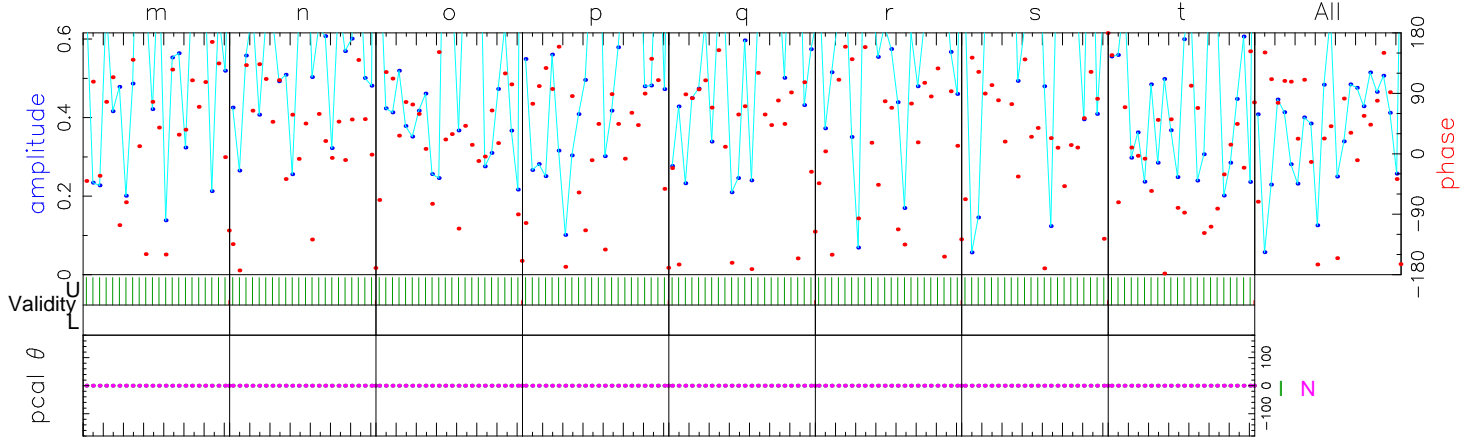


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192956
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

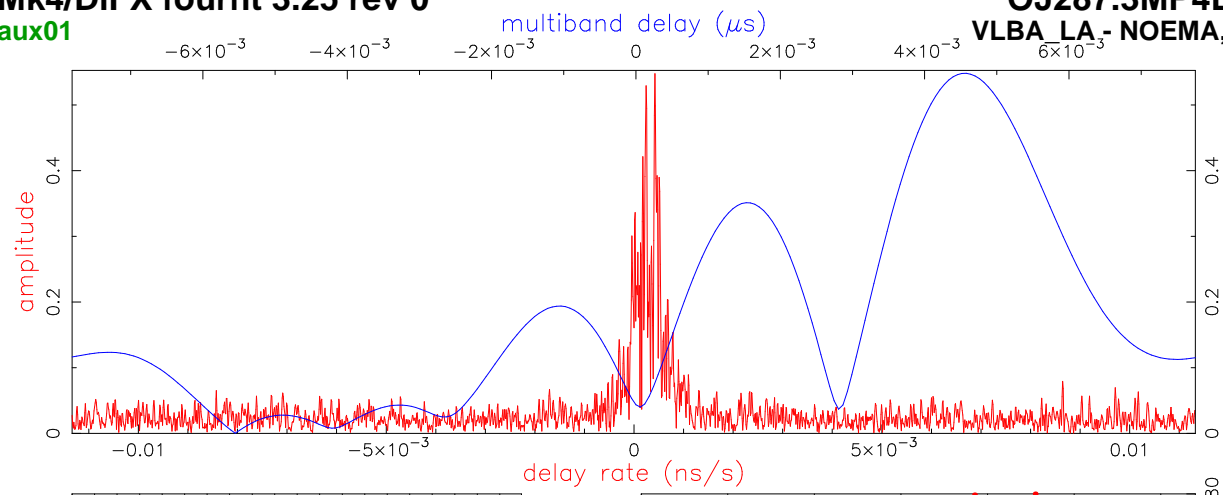
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
I	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD) -1.26187182071E+04 Apriori delay (usec) -1.26187234973E+04 Resid mbdelay (usec) 5.29027E-03 +/- 9.4E-05
 Sband delay (usec) -1.26187187306E+04 Apriori clock (usec) 5.0400143E+00 Resid sbdelay (usec) 4.76675E-03 +/- 7.5E-04
 Phase delay (usec) -1.26187234954E+04 Apriori clockrate (us/s) -2.4830008E-07 Resid phdelay (usec) 1.96825E-06 +/- 3.2E-07
 Delay rate (us/s) 1.63567958209E+00 Apriori rate (us/s) 1.63567916078E+00 Resid rate (us/s) 4.21306E-07 +/- 1.3E-09
 Total phase (deg) 39.0 Apriori accel (us/s/s) 6.25635120751E-05 Resid phase (deg) 61.0 +/- 10.0

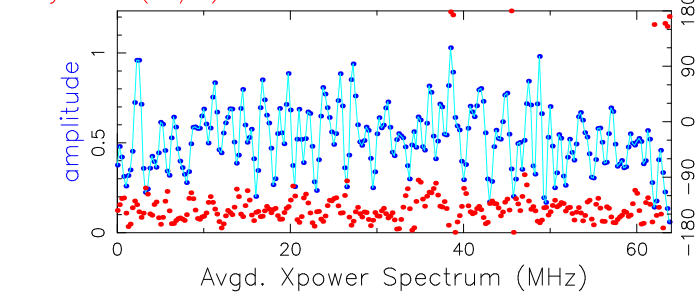
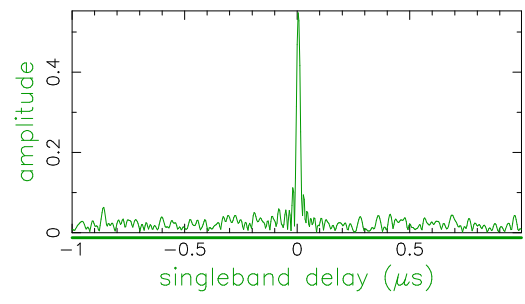
ph/seg (deg) 70.8 23.9 Search (2048X32) 0.199 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.6 41.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.4 14.1 Inc. seg. avg. 0.349 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.4 24.6 Inc. frq. avg. 0.223 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 I: az 74.9 el 13.6 pa -56.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -9867.690 855.800 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/IN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/IN.W.172.3MP4LY



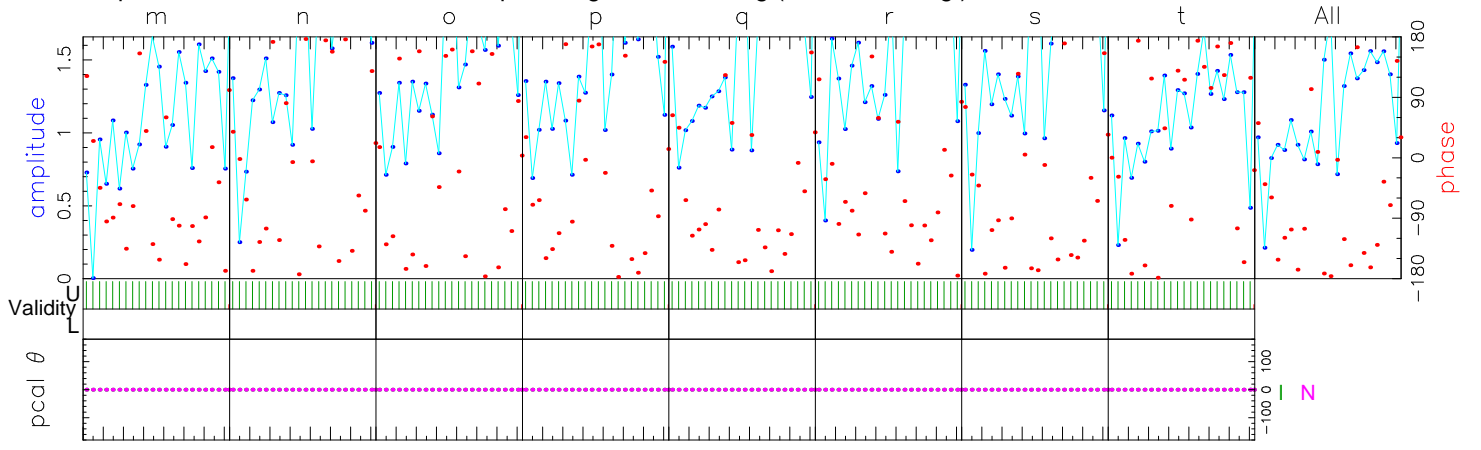
Fringe quality 4

SNR 31.0
Int time 419.822
Amp 0.553
Phase -139.5
PFD 0.0e+00
Delays (us)
SBD 0.005089
MBD 0.004613
Fringe rate (Hz) 0.036011
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build 2024:365:162308
2025:041:193001
2024:113:095956
RA & Dec (J2000) 08h54m48.874931s +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-103.1	-151.3	-179.3	-148.9	-119.8	-89.4	-136.1	161.7	Phase	-139.5
	0.5	0.7	0.7	0.7	0.7	0.7	0.8	0.5	Ampl.	0.6
	256.1	258.4	258.3	258.9	258.5	258.3	258.4	256.4	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-1.26187188847E+04	Apriori delay (usec)	-1.26187234973E+04	Resid mbdelay (usec)	4.61265E-03	+/-	3.5E-05
Sband delay (usec)	-1.26187184086E+04	Apriori clock (usec)	5.0400143E+00	Resid sbdelay (usec)	5.08875E-03	+/-	2.8E-04
Phase delay (usec)	-1.26187235018E+04	Apriori clockrate (us/s)	-2.4830008E-07	Resid phdelay (usec)	-4.49732E-06	+/-	1.2E-07
Delay rate (us/s)	1.63567957883E+00	Apriori rate (us/s)	1.63567916078E+00	Resid rate (us/s)	4.18051E-07	+/-	4.9E-10
Total phase (deg)	-161.5	Apriori accel (us/s/s)	6.25635120751E-05	Resid phase (deg)	-139.5	+/-	3.7

ph/seg (deg) 78.4 8.9 Search (2048X32) 0.538 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 127.2 15.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 39.8 5.2 Inc. seg. avg. 1.132 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 24.4 9.1 Inc. frq. avg. 0.650 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 74.9 el 13.6 pa -56.6 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -9867.690 855.800 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/IN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/IN.W.198.3MP4LY

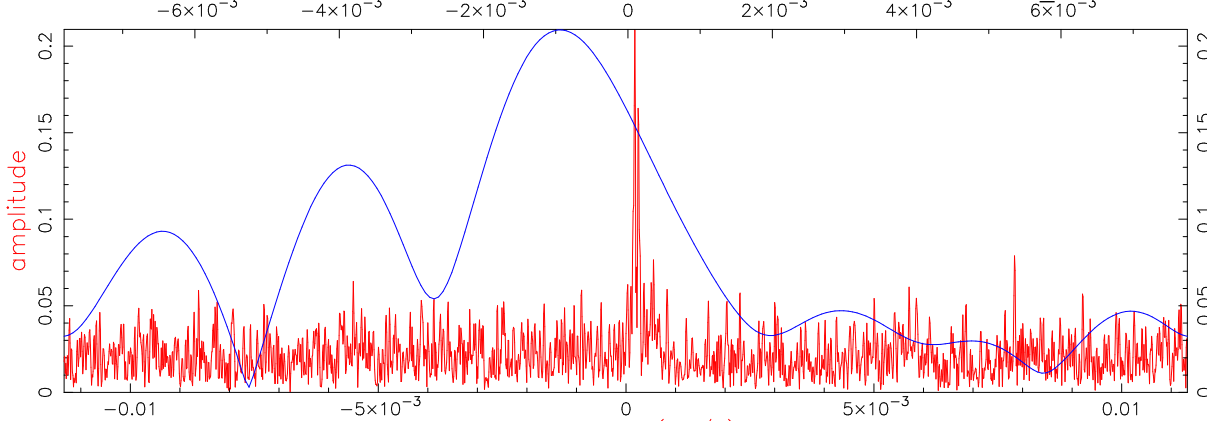
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, nN

VLBA_NL- NOEMA, fgroup W, pol LL

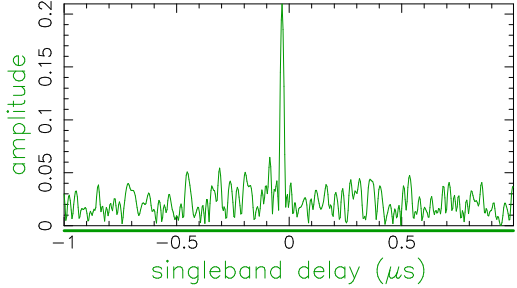
multiband delay (μ s)



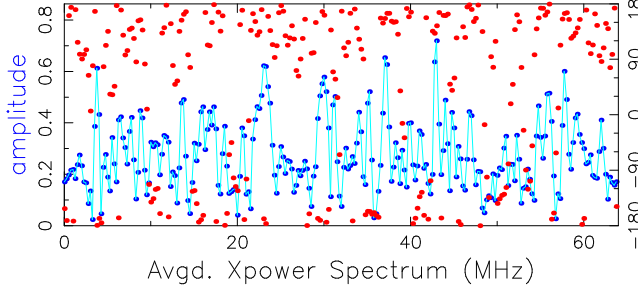
Fringe quality 9

SNR 11.7
 Int time 419.635
 Amp 0.210
 Phase 163.2
 PFD 3.8e-23
 Delays (us)
 SBD -0.031713
 MBD -0.000956
 Fringe rate (Hz)
 0.014837
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

delay rate (ns/s)

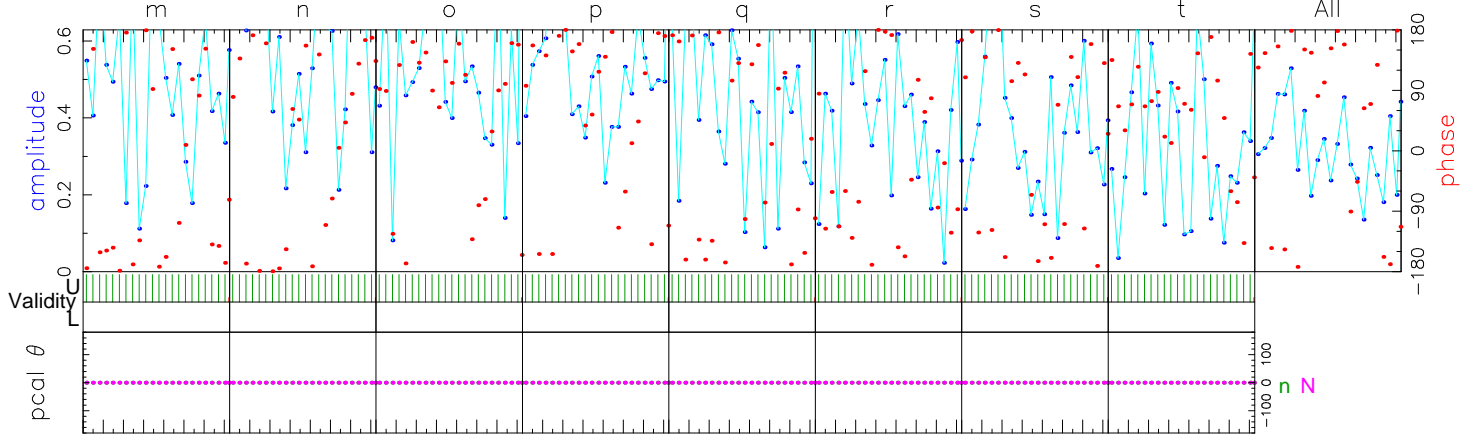


singleband delay (μ s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192952
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.4	151.5	126.1	159.7	176.6	-120.3	-177.5	85.9	Phase	163.2
	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
	247.4	249.1	249.3	248.8	249.9	250.0	248.8	247.9	Sbd box	248.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-8.36291698442E+03	Apriori delay (usec)	-8.36288477886E+03	Resid mbdelay (usec)	-9.55565E-04	+/-	9.2E-05
Sband delay (usec)	-8.36291649161E+03	Apriori clock (usec)	1.3084171E+01	Resid sbdelay (usec)	-3.17128E-02	+/-	7.3E-04
Phase delay (usec)	-8.36288477360E+03	Apriori clockrate (us/s)	2.8296094E-07	Resid phdelay (usec)	5.26176E-06	+/-	3.1E-07
Delay rate (us/s)	1.48693394309E+00	Apriori rate (us/s)	1.48693377085E+00	Resid rate (us/s)	1.72243E-07	+/-	1.3E-09
Total phase (deg)	-143.1	Apriori accel (us/s/s)	4.31211356233E-05	Resid phase (deg)	163.2	+/-	9.8

ph/seg (deg)	RMS 58.9	Theor. 23.4	Amplitude Search (2048X32)	0.210 +/- 0.018	0.198	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	70.9	40.8	Interp.	0.000	0.198	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	48.9	13.8	Inc. seg. avg.	0.294	0.198	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	37.9	24.1	Inc. frq. avg.	0.249	0.198	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

n: az 85.6 el 25.9 pa -52.4 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8993.291 972.646 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/nN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/nN.W.157.3MP4LY

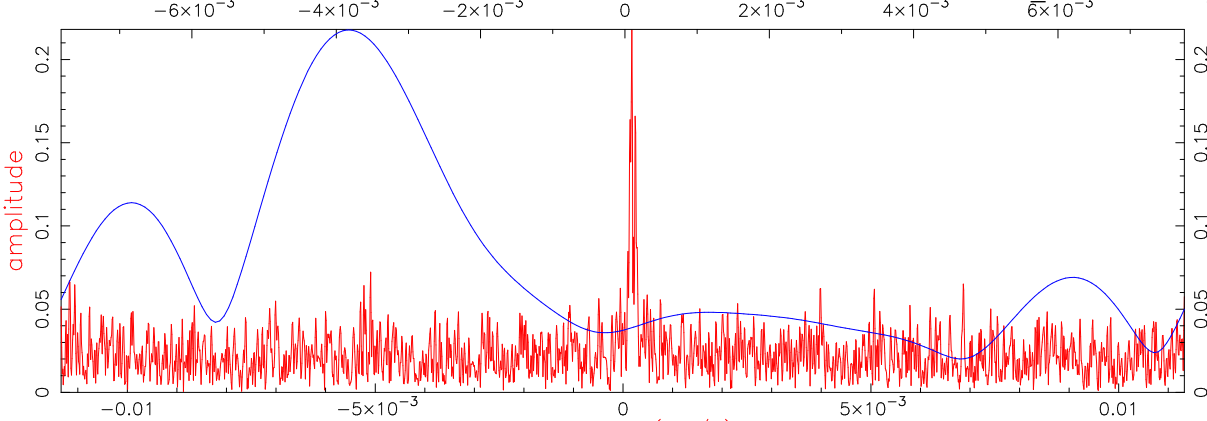
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, nN

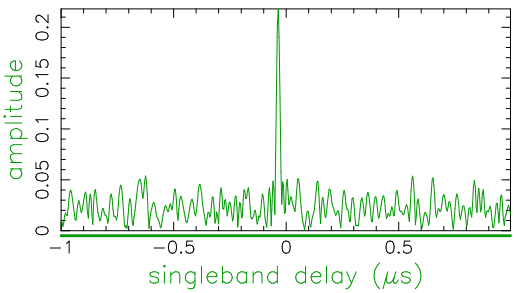
VLBA_NL - NOEMA, fgroup W, pol RR

multiband delay (μ s)

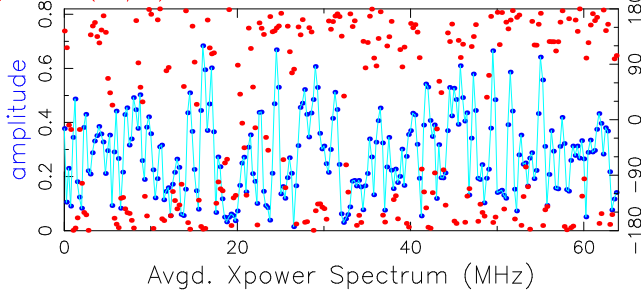


Fringe quality 9

SNR 12.2
 Int time 419.633
 Amp 0.218
 Phase 162.8
 PFD 1.3e-25
 Delays (us)
 SBD -0.035659
 MBD -0.003854
 Fringe rate (Hz)
 0.014963
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

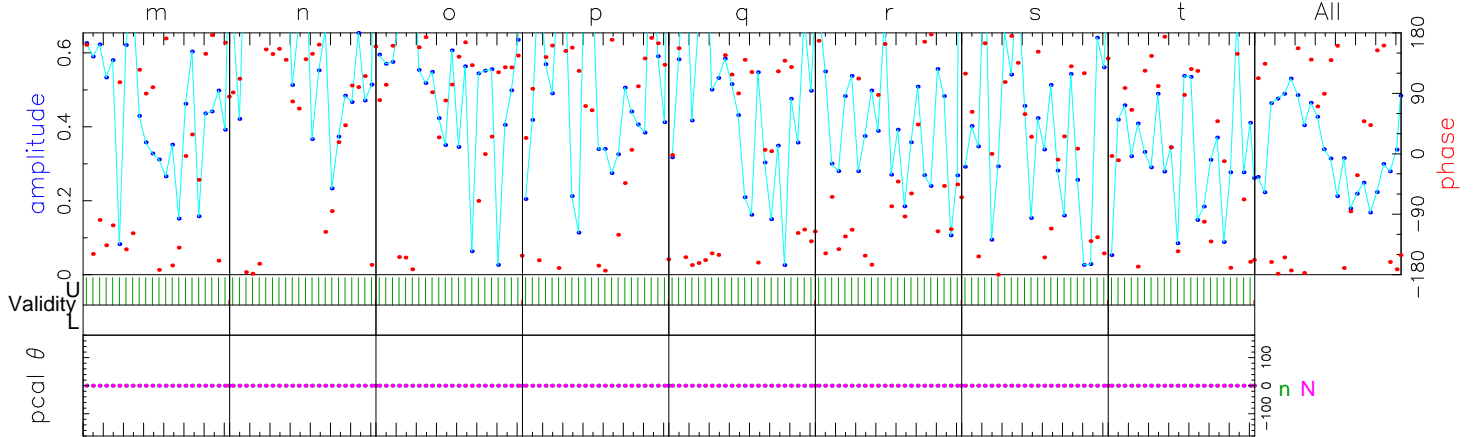


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:192956
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.6	144.7	142.3	148.5	-172.6	-130.4	155.7	127.8	Phase	162.8
	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.1	Ampl.	0.2
	246.1	247.9	248.3	248.3	248.6	373.2	247.8	264.1	Sbd box	247.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	-8.36291988248E+03	Apriori delay (usec)	-8.36288477886E+03	Resid mbdelay (usec)	-3.85363E-03	+/-	8.9E-05
Sband delay (usec)	-8.36292043836E+03	Apriori clock (usec)	1.3084171E+01	Resid sbdelay (usec)	-3.56595E-02	+/-	7.1E-04
Phase delay (usec)	-8.36288477361E+03	Apriori clockrate (us/s)	2.8296094E-07	Resid phdelay (usec)	5.25036E-06	+/-	3.0E-07
Delay rate (us/s)	1.48693394455E+00	Apriori rate (us/s)	1.48693377085E+00	Resid rate (us/s)	1.73703E-07	+/-	1.2E-09
Total phase (deg)	-143.5	Apriori accel (us/s/s)	4.31211356233E-05	Resid phase (deg)	162.8	+/-	9.4

ph/seg (deg)	64.9	RMS	22.5	Theor.	Amplitude	0.218 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	74.6	Search (2048X32)	0.211	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	37.5	Inc. seg. avg.	0.312	Inc. frq. avg.	0.242	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	42.9	u,v (fr/asec)	-8993.291 972.646	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011

n: az 85.6 el 25.9 pa -52.4 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8993.291 972.646 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/nN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/nN.W.171.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

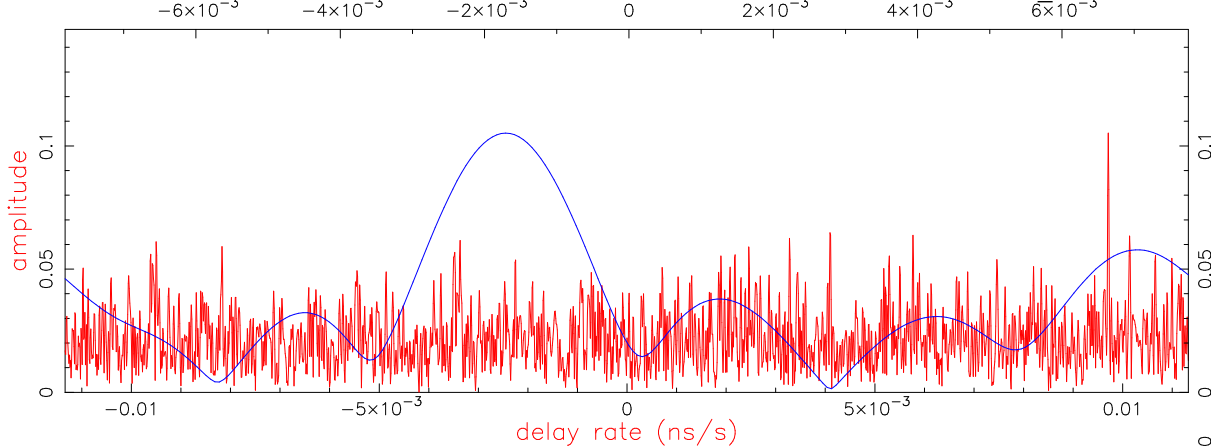
aux01

OJ287.3MP4LY, No1205, nN

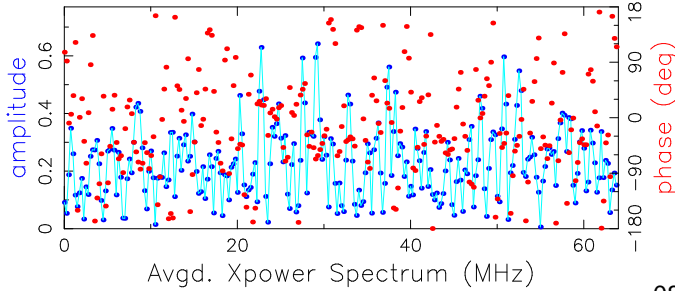
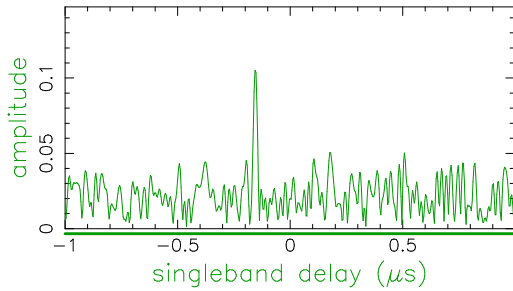
VLBA_NL- NOEMA, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

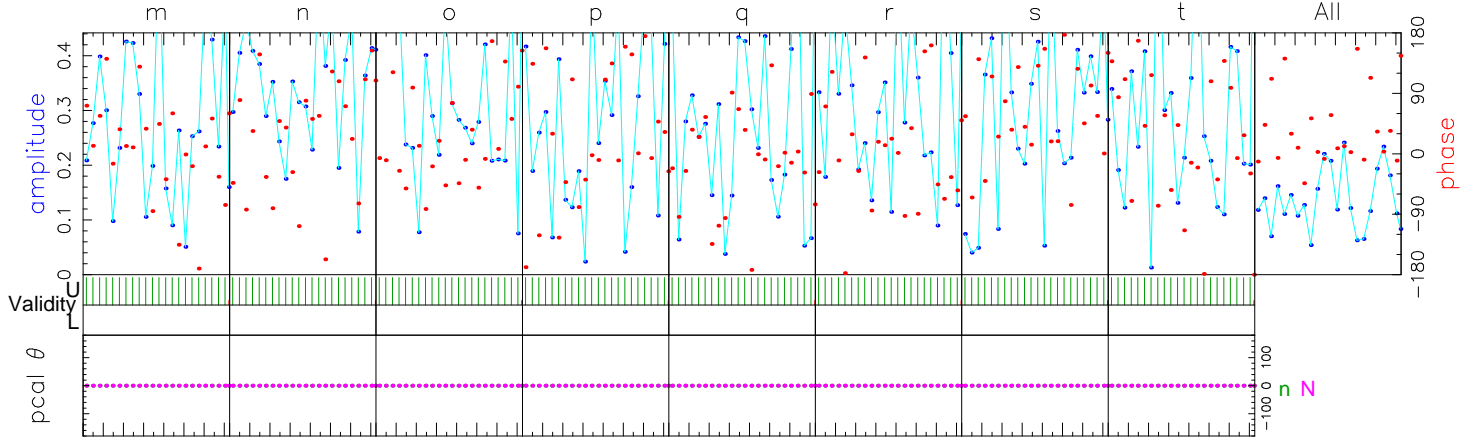


SNR 6.0
 Int time 419.633
 Amp 0.147
 Phase 19.7
 PFD 4.5e-01
 Delays (us)
 SBD -0.154613
 MBD -0.001692
 Fringe rate (Hz)
 0.837160
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193000
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
n	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD) -8.36304272063E+03 Apriori delay (usec) -8.36288477886E+03 Resid mbdelay (usec) -1.69177E-03 +/- 1.8E-04
 Sband delay (usec) -8.36303939161E+03 Apriori clock (usec) 1.3084171E+01 Resid sbdelay (usec) -1.54613E-01 +/- 1.4E-03
 Phase delay (usec) -8.36288477822E+03 Apriori clockrate (us/s) 2.8296094E-07 Resid phdelay (usec) 6.36681E-07 +/- 6.2E-07
 Delay rate (us/s) 1.48694348945E+00 Apriori rate (us/s) 1.48693377085E+00 Resid rate (us/s) 9.71860E-06 +/- 2.6E-09
 Total phase (deg) -286.5 Apriori accel (us/s/s) 4.31211356233E-05 Resid phase (deg) 19.7 +/- 19.2

ph/seg (deg) 54.6 46.0 54.6 46.0 54.6 46.0 54.6 46.0 54.6 46.0 54.6 46.0
 amp/seg (%) 59.1 80.3 59.1 80.3 59.1 80.3 59.1 80.3 59.1 80.3 59.1 80.3
 ph/frq (deg) 29.8 27.1 29.8 27.1 29.8 27.1 29.8 27.1 29.8 27.1 29.8 27.1
 amp/frq (%) 43.9 47.4 43.9 47.4 43.9 47.4 43.9 47.4 43.9 47.4 43.9 47.4

n: az 85.6 el 25.9 pa -52.4 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8993.291 972.646 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/nN.3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/nN.W.187.3MP4LY

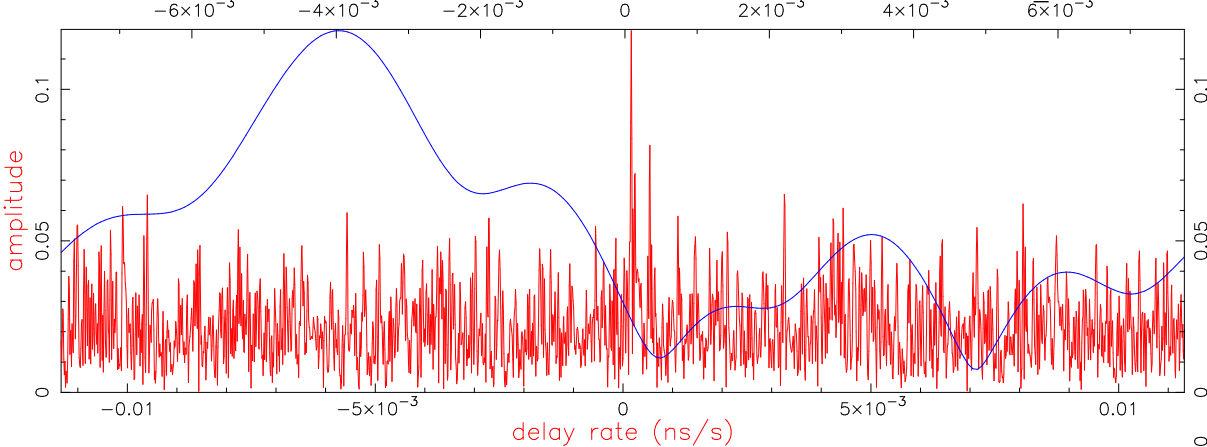
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, nN

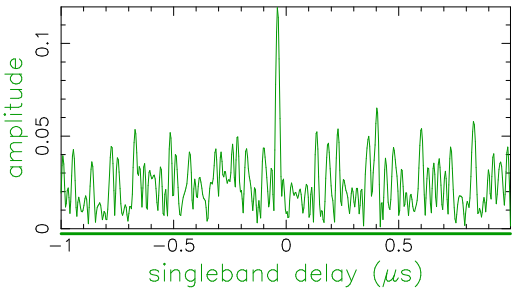
VLBA_NL- NOEMA, fgroup W, pol RL

multiband delay (μ s)

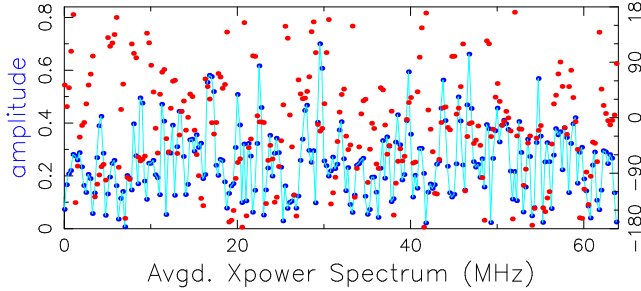


Fringe quality 0

SNR 6.7
 Int time 419.635
 Amp 0.120
 Phase -42.1
 PFD 5.7e-03
 Delays (us)
 SBD -0.038238
 MBD -0.003942
 Fringe rate (Hz)
 0.014773
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

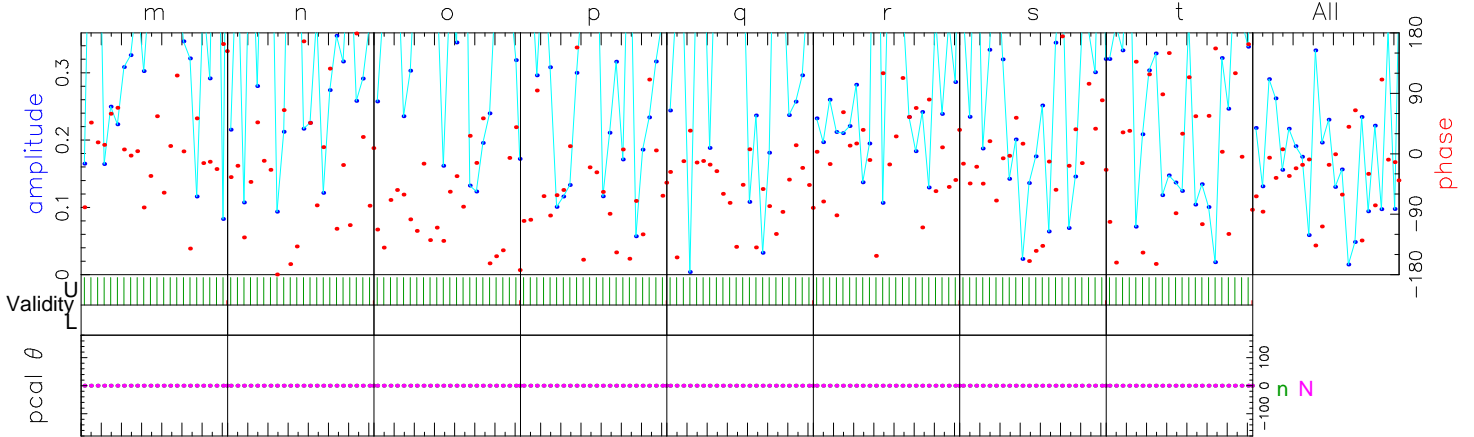


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193006
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



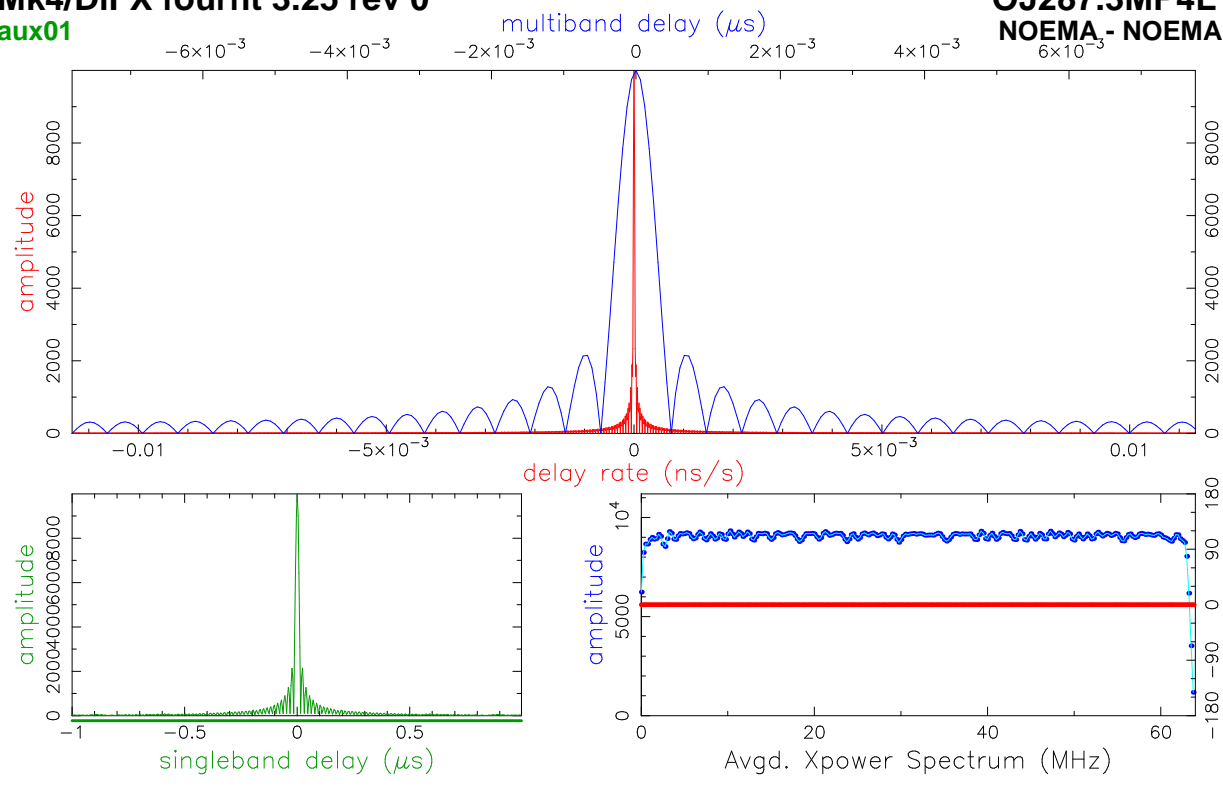
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
n	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		

Group delay (usec) (SBD)	-8.36291997084E+03	Apriori delay (usec)	-8.36288477886E+03	Resid mbdelay (usec)	-3.94198E-03	+/-	1.6E-04
Sband delay (usec)	-8.36292301636E+03	Apriori clock (usec)	1.3084171E+01	Resid sbdelay (usec)	-3.82375E-02	+/-	1.3E-03
Phase delay (usec)	-8.36288478021E+03	Apriori clockrate (us/s)	2.8296094E-07	Resid phdelay (usec)	-1.35785E-06	+/-	5.5E-07
Delay rate (us/s)	1.48693394235E+00	Apriori rate (us/s)	1.48693377085E+00	Resid rate (us/s)	1.71505E-07	+/-	2.3E-09
Total phase (deg)	-348.4	Apriori accel (us/s/s)	4.31211356233E-05	Resid phase (deg)	-42.1	+/-	17.1

ph/seg (deg)	58.9	Theor.	41.0	Amplitude	0.120 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	90.5	Search (2048X32)	0.110	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	76.1	Inc. seg. avg.	0.143	Inc. frq. avg.	0.146	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	66.0	Inc. frq. avg.	0.146			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

n: az 85.6 el 25.9 pa -52.4 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) -8993.291 972.646 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/nN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/nN.W.208.3MP4LY

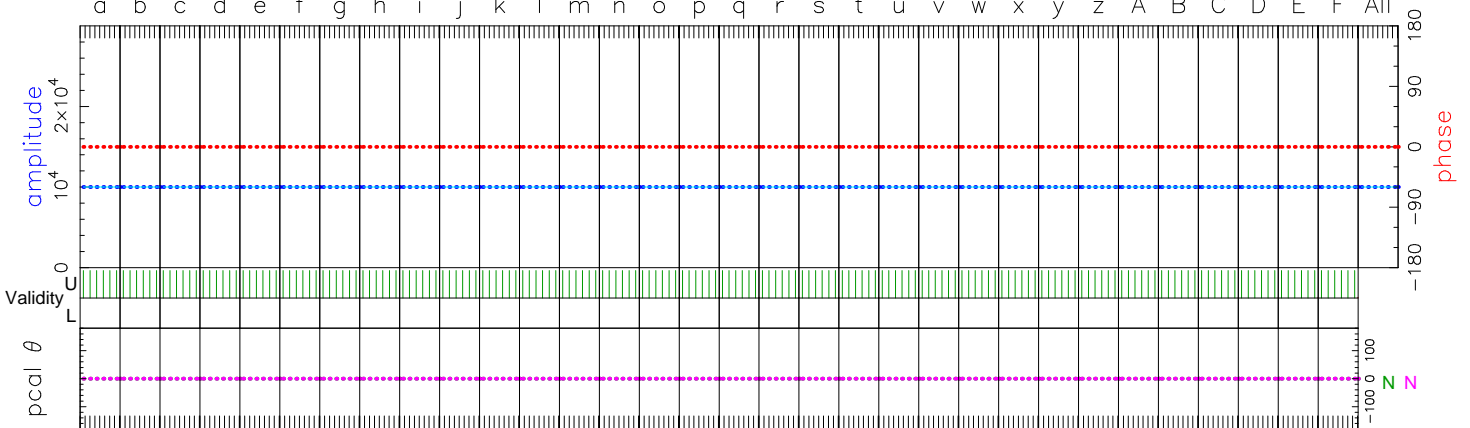


Fringe quality 9

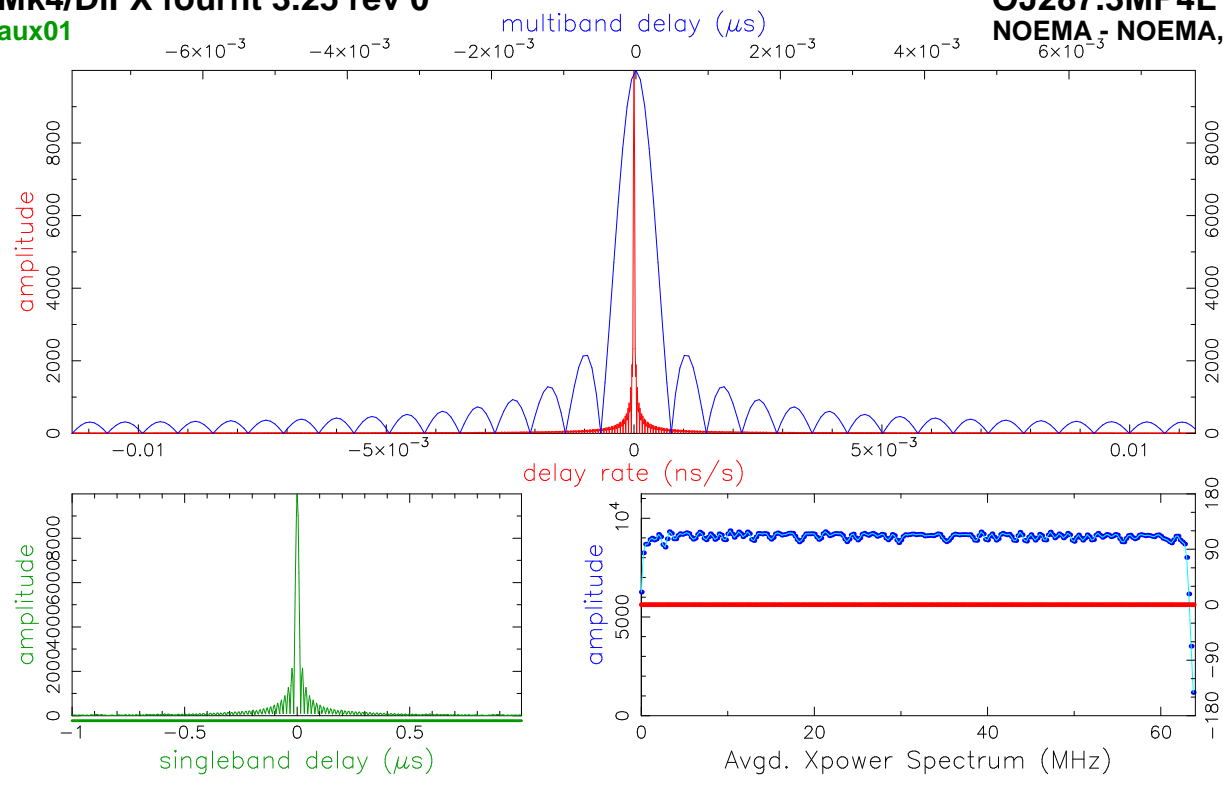
SNR 1120624.6
Int time 419.822
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2024:365:162308
2025:041:193009
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ManI PC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	W51UL	W52UL	W53UL	W54UL	W55UL	W56UL	W57UL	W58UL	W59UL	W60UL	W61UL	W62UL	W63UL	W64UL	W65UL	W66UL	W67UL	W68UL	W69UL	W70UL	W71UL	W72UL	W73UL	W74UL	W75UL	W76UL	W77UL	W78UL	W79UL	W80UL	W81UL	W82UL	W83UL	W84UL	W85UL	W86UL	W87UL	W88UL	W89UL	W90UL	W91UL	W92UL	W93UL	W94UL	W95UL	W96UL	W97UL	W98UL	W99UL	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	W33UL	W34UL	W35UL	W36UL	W37UL	W38UL	W39UL	W40UL	W41UL	W42UL	W43UL	W44UL	W45UL	W46UL	W47UL	W48UL	W49UL	W50UL	

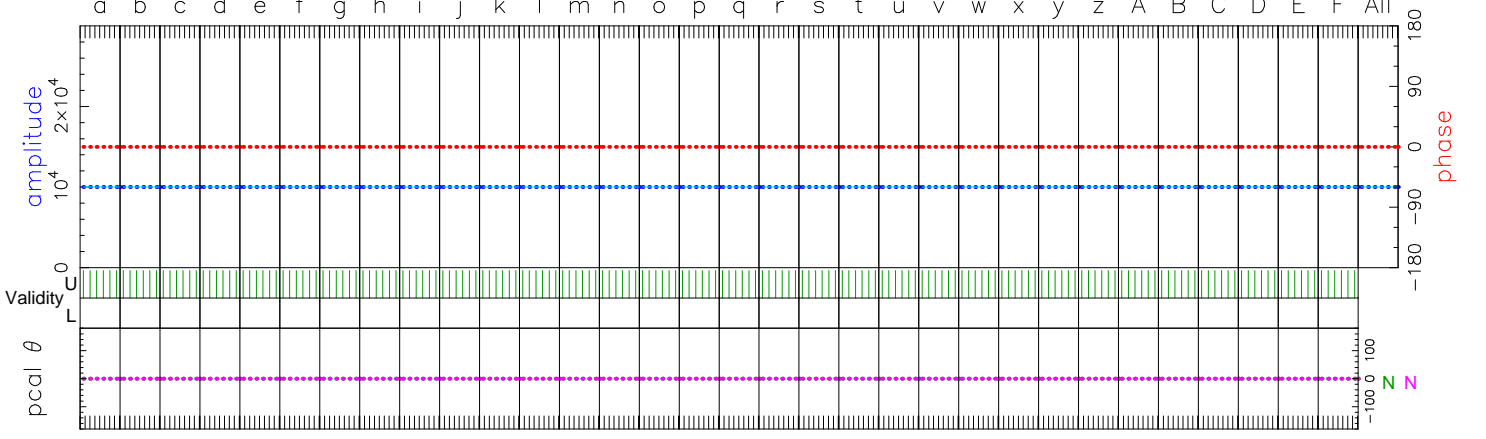


Fringe quality 9

SNR 1120622.8
Int time 419.821
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2025:04:193023
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0	
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0	
257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Std box	257.0		
UL	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	820/U	APs used			
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs		
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs		
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase		
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ManI PC		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids		

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.4E-10
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	7.7E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.3E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.009 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 0.0 0.0 Search (2048X128) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 8192 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 227.9 el 58.0 pa 34.5 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NN.W.265.3MP4LY

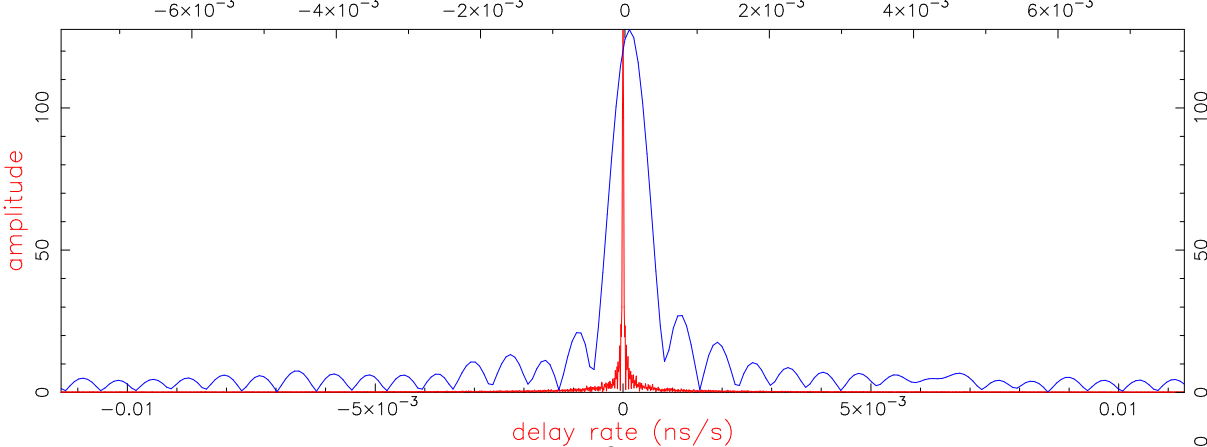
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NN

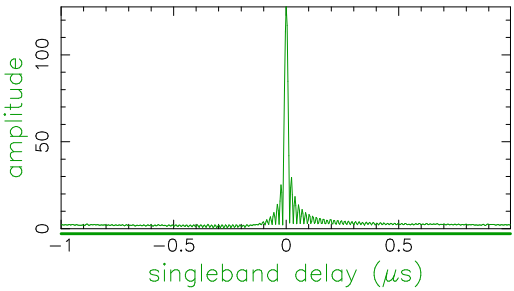
NOEMA - NOEMA, fgroup W, pol LR

multiband delay (μ s)

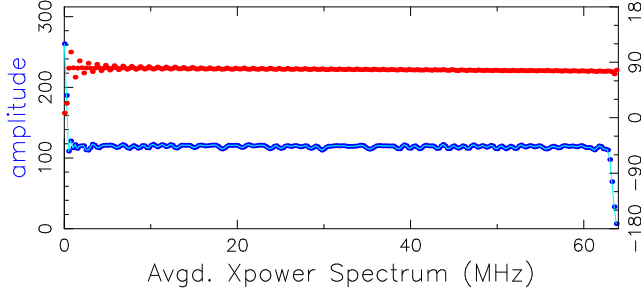


Fringe quality 9

SNR 14302.5
 Int time 419.821
 Amp 127.630
 Phase 80.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000311
 MBD 0.000064
 Fringe rate (Hz)
 -0.000004
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



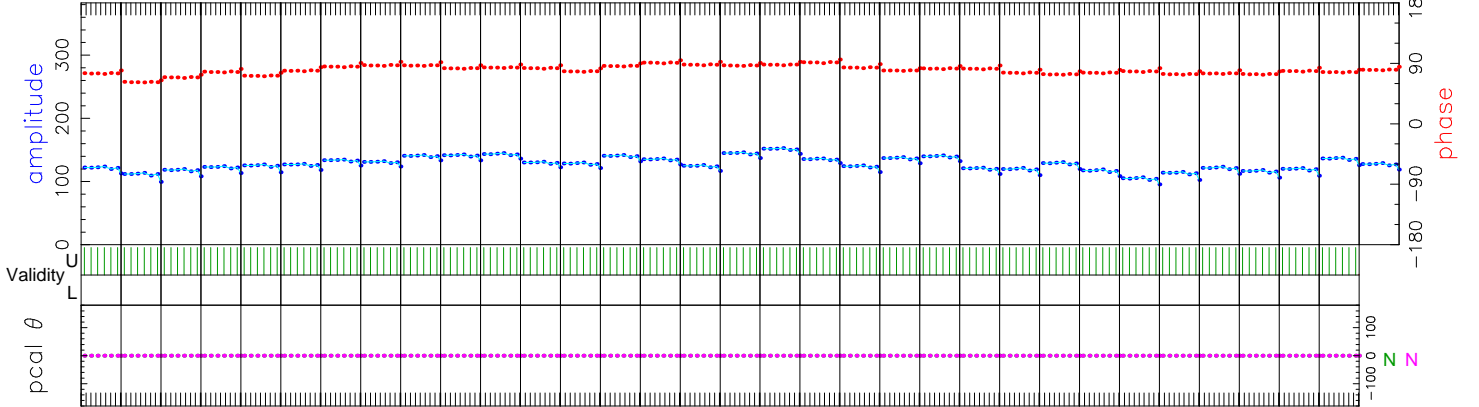
delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193039
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F All



	85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All			
75.0	62.0	69.0	77.1	71.4	78.9	85.0	86.9	86.8	82.6	83.7	82.7	78.0	85.9	90.8	87.9	86.7	87.9	91.2	83.6	79.3	82.1	81.9	75.9	73.6	75.8	78.0	73.8	74.9	73.8	78.4	76.8	Phase	80.3				
122.1	111.9	118.2	122.8	125.4	126.7	133.5	130.9	140.6	141.5	143.4	130.0	128.4	140.6	135.1	124.6	144.9	151.6	135.4	124.0	137.0	139.9	120.7	119.6	129.1	117.3	104.8	113.6	121.6	116.5	119.7	136.3	Ampl	128.4				
256.9	257.2	257.1	257.1	257.1	257.1	257.1	257.1	257.1	257.1	257.0	257.1	257.1	257.1	257.2	256.9	257.1	257.2	257.0	257.0	257.1	257.1	257.1	256.9	257.2	257.1	257.1	257.0	257.1	257.1	257.1	257.1	257.1	Std box	257.1			
UL	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used				
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase			
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Manl PC			
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids				
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids				

Group delay (usec) (SBD)	6.40859375000E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	6.40859E-05	+/-	1.9E-08
Sband delay (usec)	3.11000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.11000E-04	+/-	6.0E-07
Phase delay (usec)	2.58917704078E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.58918E-06	+/-	2.6E-10
Delay rate (us/s)	-5.03075909905E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-5.03076E-11	+/-	1.1E-12
Total phase (deg)	80.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	80.3	+/-	0.0

ph/seg (deg)	0.5	0.0	Search (2048X128)	124.732	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	1.0	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	6.8	0.0	Inc. seg. avg.	127.553	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	8.4	0.0	Inc. frq. avg.	128.364	Data rate(MSamp/s): 128 MBpts	128 Amb 0.016 us	dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 227.9 el 58.0 pa 34.5 N: az 227.9 el 58.0 pa 34.5 u, v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NN.W.305.3MP4LY

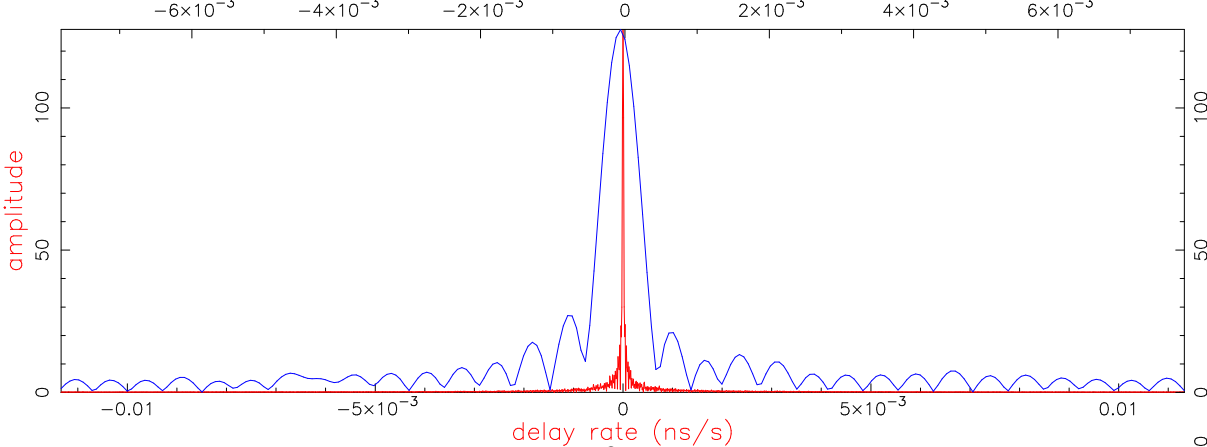
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NN

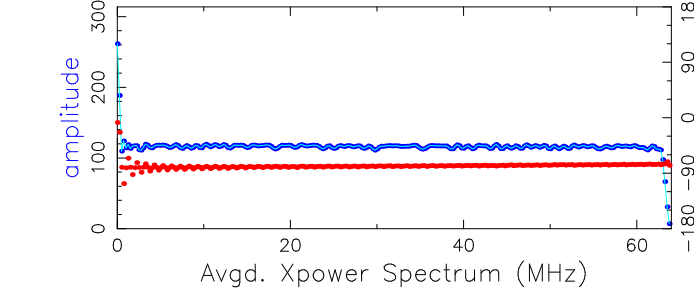
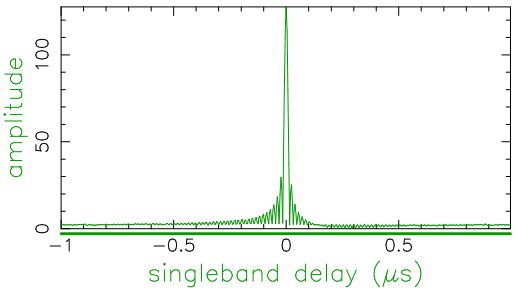
NOEMA - NOEMA, fgroup W, pol RL

multiband delay (μ s)



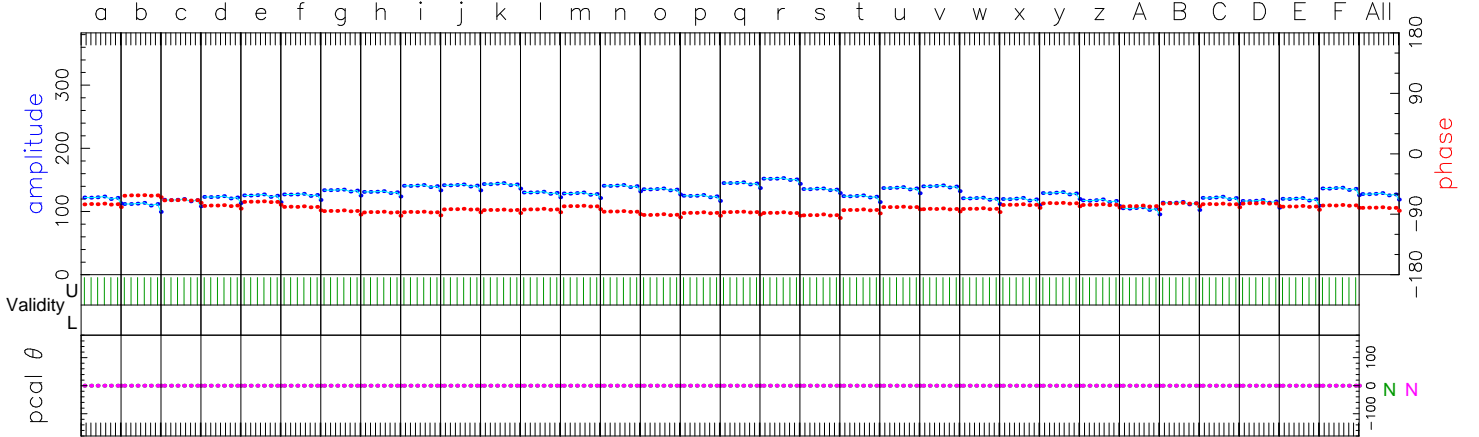
Fringe quality 9

SNR 14302.5
 Int time 419.821
 Amp 127.630
 Phase -80.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.000311
 MBD -0.000064
 Fringe rate (Hz) 0.000004
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193054
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 7 segs, 136 APs / seg (69.63 sec / seg.), time ticks 60 sec



	85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All			
-75.0	-62.0	-69.0	-77.1	-71.4	-78.9	-85.0	-86.9	-86.8	-82.6	-83.7	-82.7	-78.0	-85.9	-90.8	-87.9	-86.7	-87.9	-91.2	-83.6	-79.3	-82.1	-81.9	-75.9	-73.6	-75.8	-78.0	-73.8	-74.9	-73.8	-78.4	-76.8	Phase	-80.3				
122.1	111.9	118.2	122.8	125.4	126.7	133.5	130.9	140.6	141.5	143.4	130.0	128.4	140.6	135.1	124.6	144.9	151.6	135.4	124.0	137.0	139.9	120.7	119.6	129.1	117.3	104.8	113.6	121.6	116.5	119.7	136.3	Ampl	128.4				
257.1	256.8	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	257.0	256.9	256.9	256.9	256.8	257.1	256.9	256.8	257.0	257.0	256.9	256.9	256.9	257.1	256.8	256.9	256.9	257.0	256.9	256.9	256.9	256.9	256.9	Std box	256.9			
UL	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used				
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs			
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase			
NN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Manl PC			
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR	W31UR	Chan ids				
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids				

Group delay (usec) (SBD)	-6.40859375000E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.40859E-05	+/-	1.9E-08
Sband delay (usec)	-3.11000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.11000E-04	+/-	6.0E-07
Phase delay (usec)	-2.58917704076E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.58918E-06	+/-	2.6E-10
Delay rate (us/s)	5.03075909905E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	5.03076E-11	+/-	1.1E-12
Total phase (deg)	-80.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-80.3	+/-	0.0

ph/seg (deg) 0.5 0.0 Theor. Amplitude 127.630 +/- 0.009 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.0 Search (2048X128) 124.732 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.4 0.0 Inc. seg. avg. 127.553 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
 N: az 227.9 el 58.0 pa 34.5 N: az 227.9 el 58.0 pa 34.5 u, v (fr/asec) 0.000 0.000 Data rate(Mb/s): 8192 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NN.W.309.3MP4LY simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

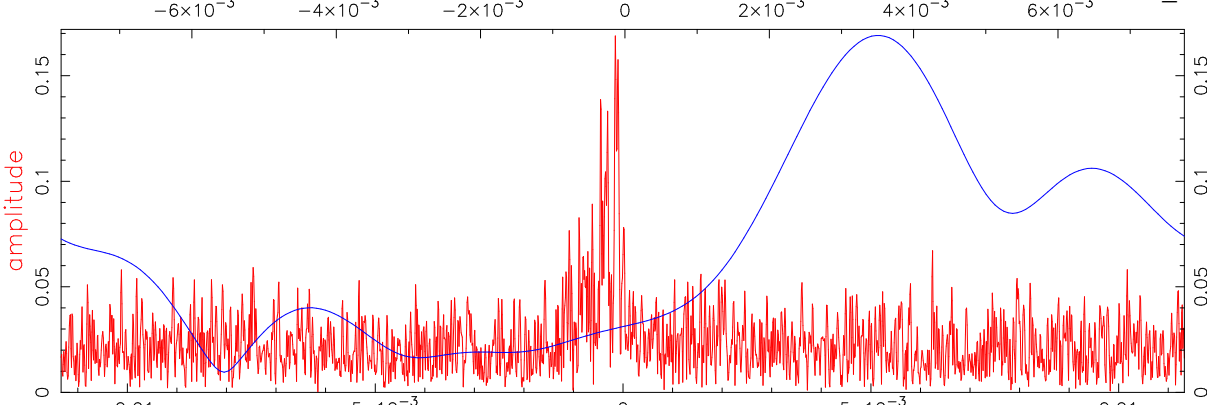
aux01

OJ287.3MP4LY, No1205, Np

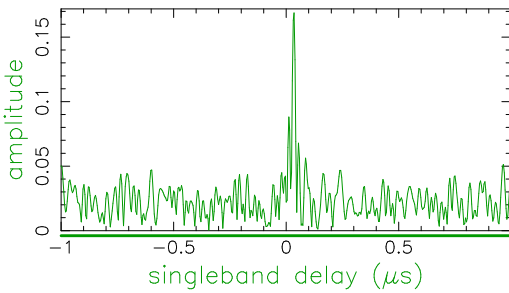
NOEMA - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)

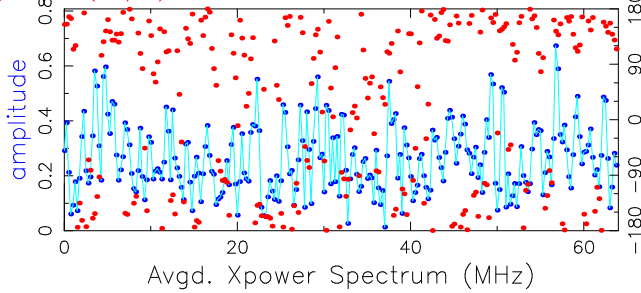
Fringe quality 9



SNR 9.6
Int time 419.683
Amp 0.172
Phase 151.6
PFD 2.4e-13
Delays (us)
SBD 0.033704
MBD 0.003434
Fringe rate (Hz)
-0.013435
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

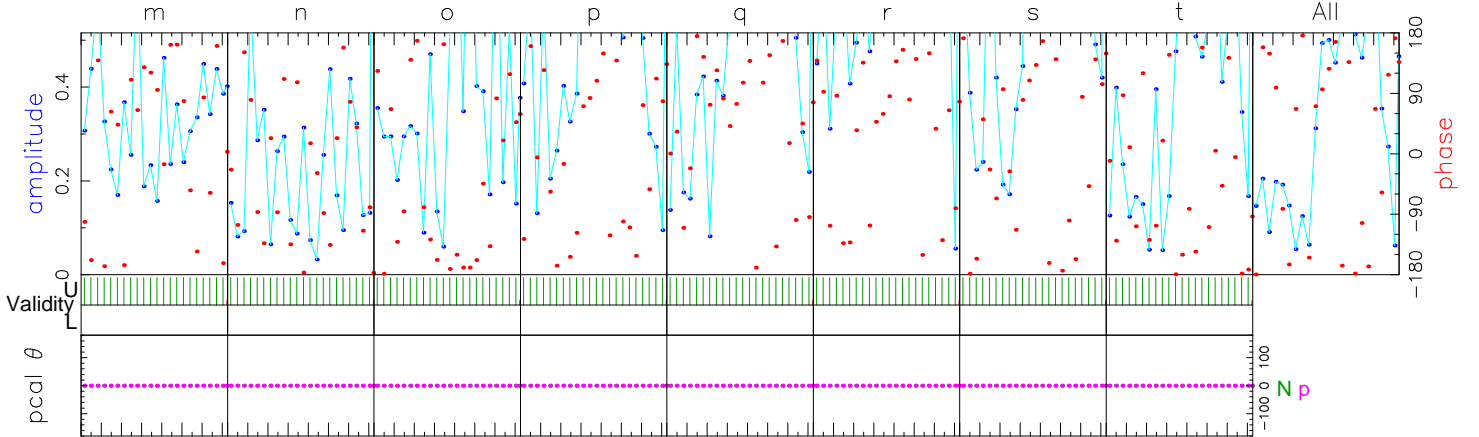


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2024:365:162308
2025:041:193005
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
N	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	1.32782534380E+04	Apriori delay (usec)	1.32782187539E+04	Resid mbdelay (usec)	3.43412E-03	+/-	1.1E-04
Sband delay (usec)	1.32782524577E+04	Apriori clock (usec)	-1.9076902E+01	Resid sbdelay (usec)	3.37038E-02	+/-	8.9E-04
Phase delay (usec)	1.32782187588E+04	Apriori clockrate (us/s)	-3.6439796E-07	Resid phdelay (usec)	4.89024E-06	+/-	3.8E-07
Delay rate (us/s)	-1.65910084199E+00	Apriori rate (us/s)	-1.65910068602E+00	Resid rate (us/s)	-1.55971E-07	+/-	1.6E-09
Total phase (deg)	317.6	Apriori accel (us/s/s)	-6.53322057185E-05	Resid phase (deg)	151.6	+/-	11.9

ph/seg (deg)	63.8	Theor.	28.5	Amplitude	0.172 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	145.2		49.8	Search (2048X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	44.7		16.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	65.9		29.4	Inc. seg. avg.	0.287	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.191	Data rate(Mb/s): 2048	t_cohere infinite			

N: az 227.9 el 58.0 pa 34.5 p: az 73.6 el 11.7 pa -57.6 u,v (fr/asec) 10005.702 -760.729 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/Np..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/Np.W.206.3MP4LY

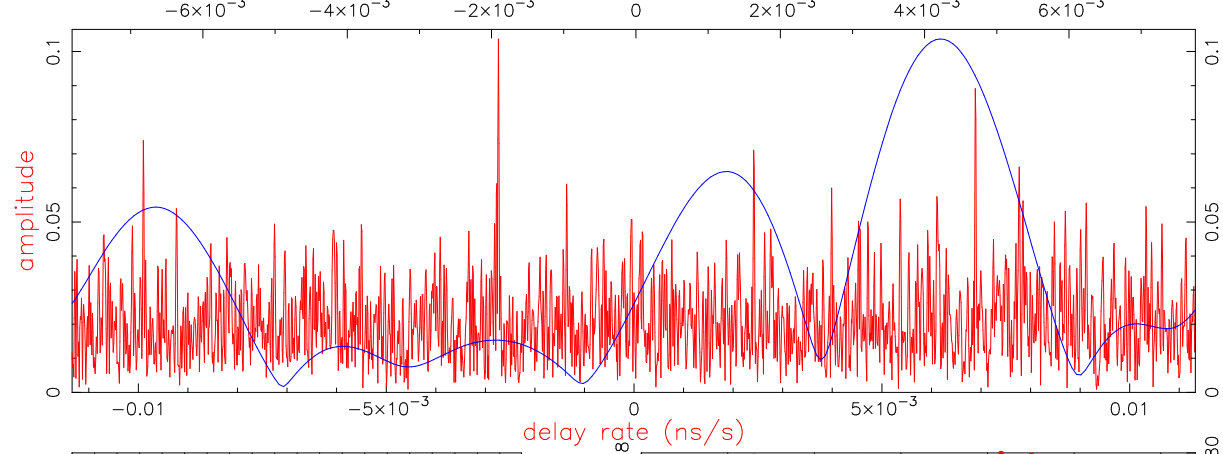
Mk4/DiFX fourfit 3.25 rev 0

aux01

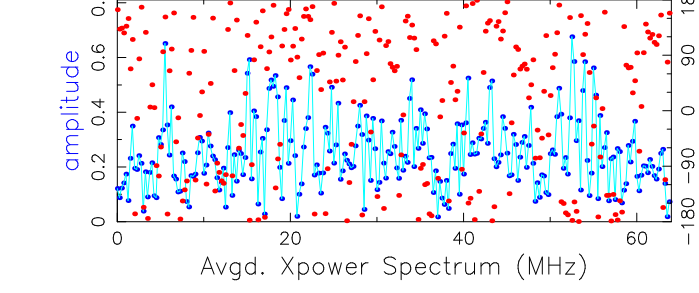
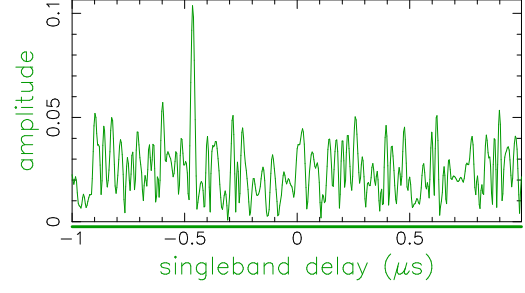
OJ287.3MP4LY, No1205, NP

NOEMA - PICOVEL, fgroup W, pol LL

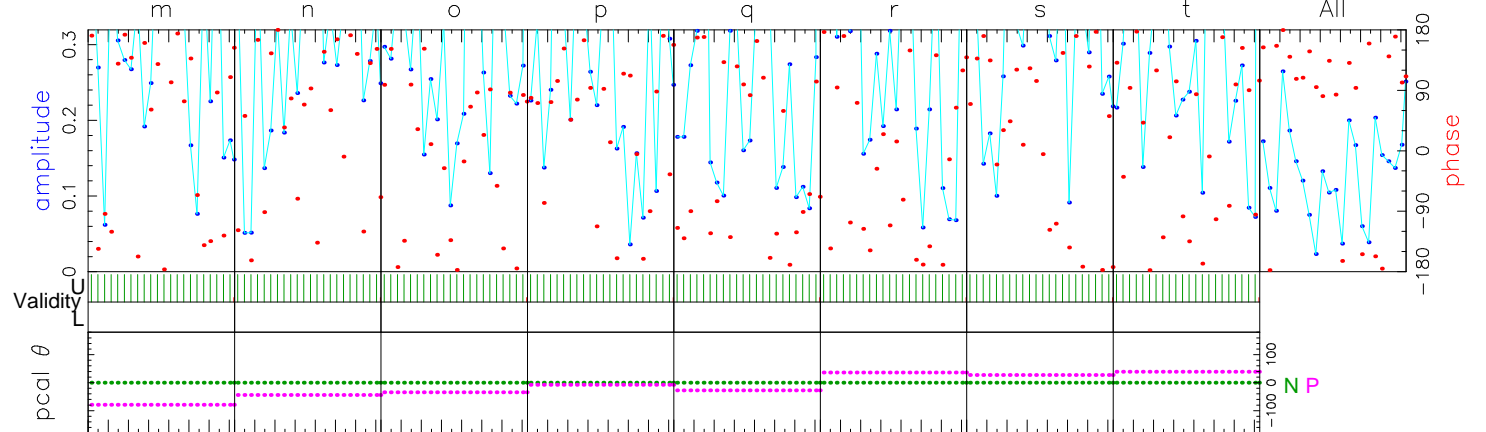
multiband delay (μ s)



Fringe quality 0
 SNR 5.8
 Int time 419.820
 Amp 0.107
 Phase 143.1
 PFD 7.6e-01
 Delays (us)
 SBD -0.464128
 MBD 0.004232
 Fringe rate (Hz)
 -0.235574
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193007
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
N	0	0	0	0	0	0	0	0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -1.77613340027E+03 Apriori delay (usec) -1.77566888271E+03 Resid mbdelay (usec) 4.23244E-03 +/- 1.9E-04
 Sband delay (usec) -1.77613301046E+03 Apriori clock (usec) -1.2505396E+01 Resid sbdelay (usec) -4.64128E-01 +/- 1.5E-03
 Phase delay (usec) -1.77566887809E+03 Apriori clockrate (us/s) -5.8393806E-07 Resid phdelay (usec) 4.61500E-06 +/- 6.3E-07
 Delay rate (us/s) -1.21204614163E-01 Apriori rate (us/s) -1.21201879386E-01 Resid rate (us/s) -2.73478E-06 +/- 2.6E-09
 Total phase (deg) -57.2 Apriori accel (us/s/s) 1.32331539815E-05 Resid phase (deg) 143.1 +/- 19.7

ph/seg (deg) 38.6 Theor. 47.2 Amplitude 0.107 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.9 82.3 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.1 27.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.2 48.5 Inc. seg. avg. 0.099 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 N: az 227.9 el 58.0 pa 34.5 P: az 222.6 el 68.3 pa 35.6 u,v (fr/asec) 758.169 1206.731 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NP..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NP.W.215.3MP4LY

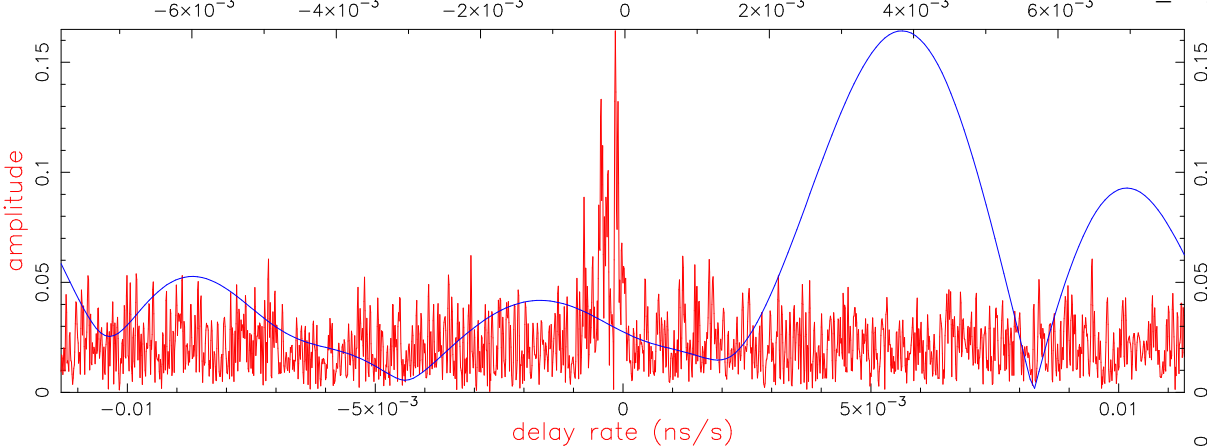
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, Np

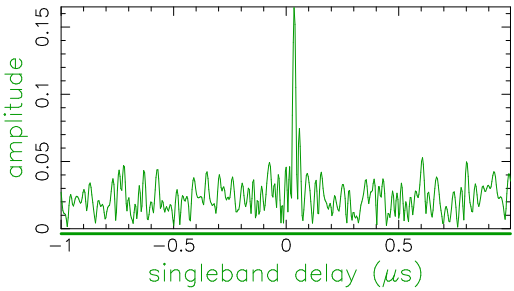
NOEMA - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)

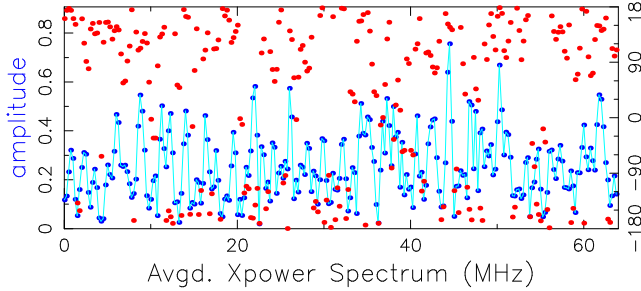


Fringe quality 9

SNR 9.2
 Int time 419.682
 Amp 0.165
 Phase 155.4
 PFD 9.6e-12
 Delays (us)
 SBD 0.035872
 MBD 0.003851
 Fringe rate (Hz) -0.013598
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

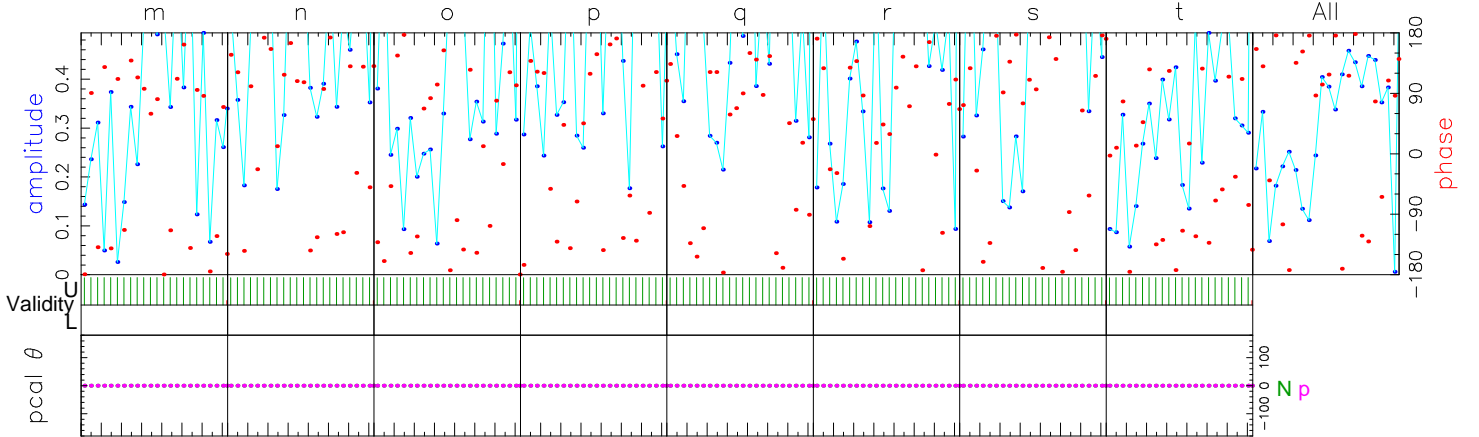


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193008
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	142.1	151.3	-163.9	174.0	140.7	108.6	159.3	-145.0	Phase	155.4
N	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
p	266.6	265.8	265.3	266.6	265.4	266.0	266.7	269.5	Sbd box	266.2
N	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.32782538553E+04	Apriori delay (usec)	1.32782187539E+04	Resid mbdelay (usec)	3.85140E-03	+/-	1.2E-04
Sband delay (usec)	1.32782546257E+04	Apriori clock (usec)	-1.9076902E+01	Resid sbdelay (usec)	3.58718E-02	+/-	9.3E-04
Phase delay (usec)	1.32782187589E+04	Apriori clockrate (us/s)	-3.6439796E-07	Resid phdelay (usec)	5.00965E-06	+/-	4.0E-07
Delay rate (us/s)	-1.65910084388E+00	Apriori rate (us/s)	-1.65910068602E+00	Resid rate (us/s)	-1.57856E-07	+/-	1.6E-09
Total phase (deg)	321.4	Apriori accel (us/s/s)	-6.53322057185E-05	Resid phase (deg)	155.4	+/-	12.4

ph/seg (deg)	66.3	Theor.	29.7	Amplitude	0.165 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	111.9	Search (2048X32)	0.161	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	36.9	Inc. seg. avg.	0.259	Inc. frq. avg.	0.176	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	37.4	Inc. frq. avg.	0.176	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite

N: az 227.9 el 58.0 pa 34.5 p: az 73.6 el 11.7 pa -57.6 u,v (fr/asec) 10005.702 -760.729 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/Np..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/Np.W.222.3MP4LY

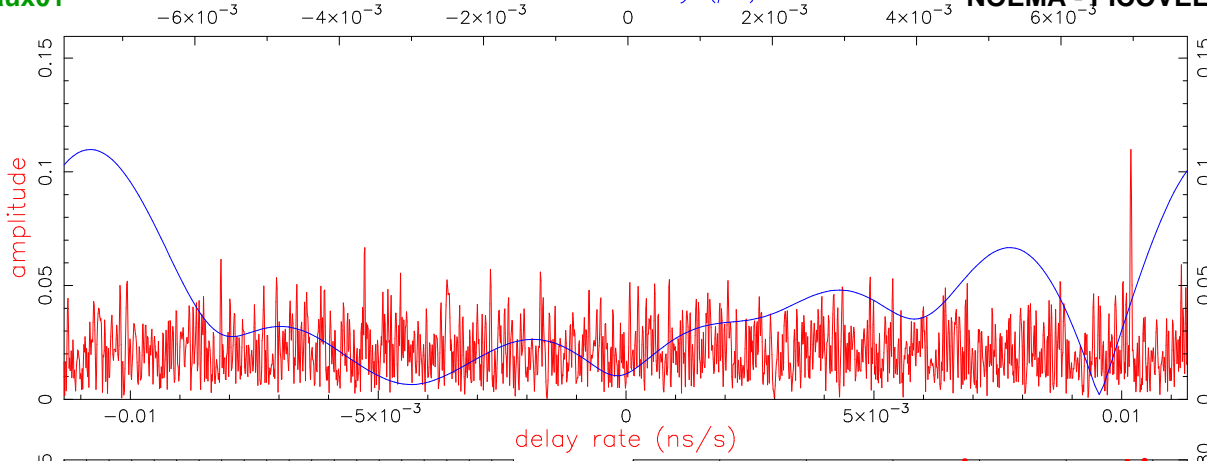
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NP

NOEMA - PICOVEL, fgroup W, pol RR

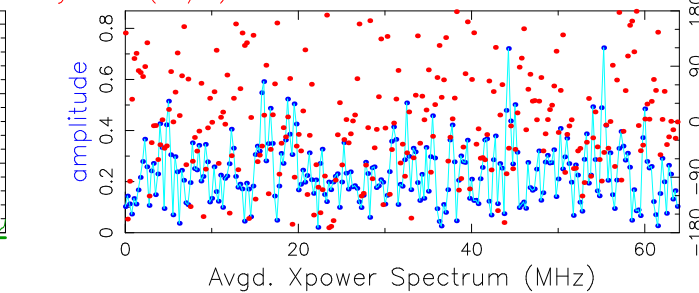
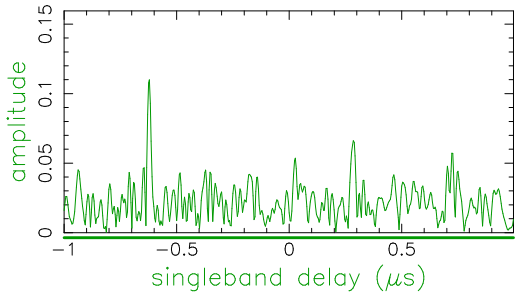
multiband delay (μ s)



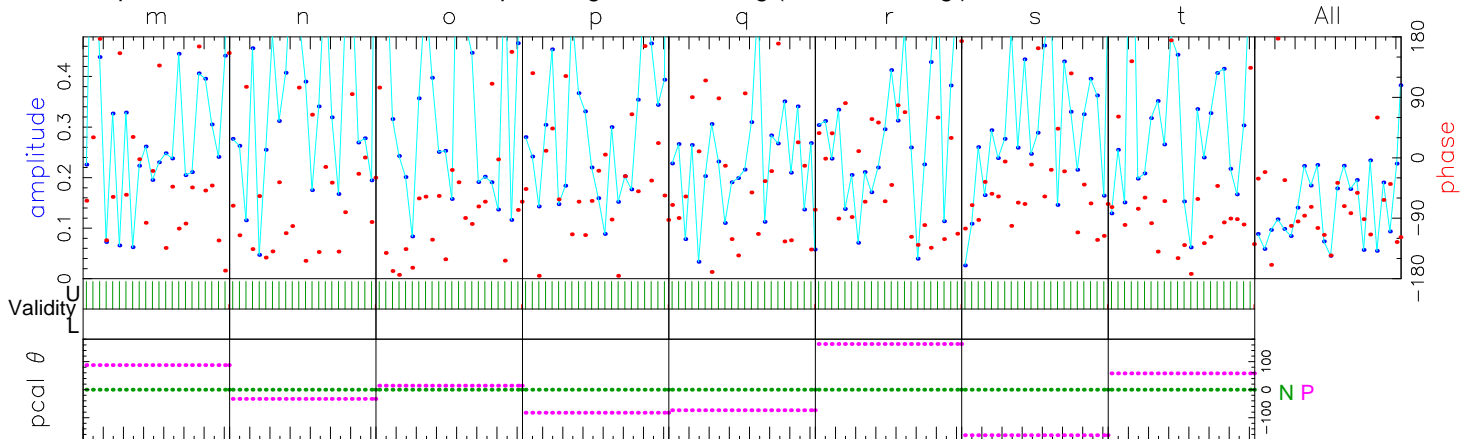
Fringe quality 0

SNR 6.2
 Int time 419.819
 Amp 0.160
 Phase -85.1
 PFD 1.1e-01
 Delays (us)
 SBD -0.622676
 MBD 0.008174
 Fringe rate (Hz) 0.878210
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build 2024:365:162308
 2025:041:193014
 2024:113:095956
 RA & Dec (J2000) 08h54m48.874931s +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.7	-95.2	-100.5	-56.6	-105.4	-14.3	-61.1	-127.7	Phase	-85.1
	0.1	0.2	0.3	0.2	0.1	0.3	0.2	0.2	Ampl.	0.2
	399.4	468.6	331.2	192.1	16.6	475.0	98.1	53.7	Sbd box	97.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.77628570861E+03	Apriori delay (usec)	-1.77566888271E+03	Resid mbdelay (usec)	8.17409E-03	+/-	1.7E-04
Sband delay (usec)	-1.77629155896E+03	Apriori clock (usec)	-1.2505396E+01	Resid sbdelay (usec)	-6.22676E-01	+/-	1.4E-03
Phase delay (usec)	-1.77566888545E+03	Apriori clockrate (us/s)	-5.8393806E-07	Resid phdelay (usec)	-2.74462E-06	+/-	5.9E-07
Delay rate (us/s)	-1.21191684240E-01	Apriori rate (us/s)	-1.21201879386E-01	Resid rate (us/s)	1.01951E-05	+/-	2.4E-09
Total phase (deg)	-285.4	Apriori accel (us/s/s)	1.32331539815E-05	Resid phase (deg)	-85.1	+/-	18.3

ph/seg (deg) 52.0 44.0 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.9 76.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.7 25.9 Inc. seg. avg. 0.156 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.9 45.3 Inc. frq. avg. 0.164 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 227.9 el 58.0 pa 34.5 P: az 222.6 el 68.3 pa 35.6 u,v (fr/asec) 758.169 1206.731 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NP..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NP.W.227.3MP4LY

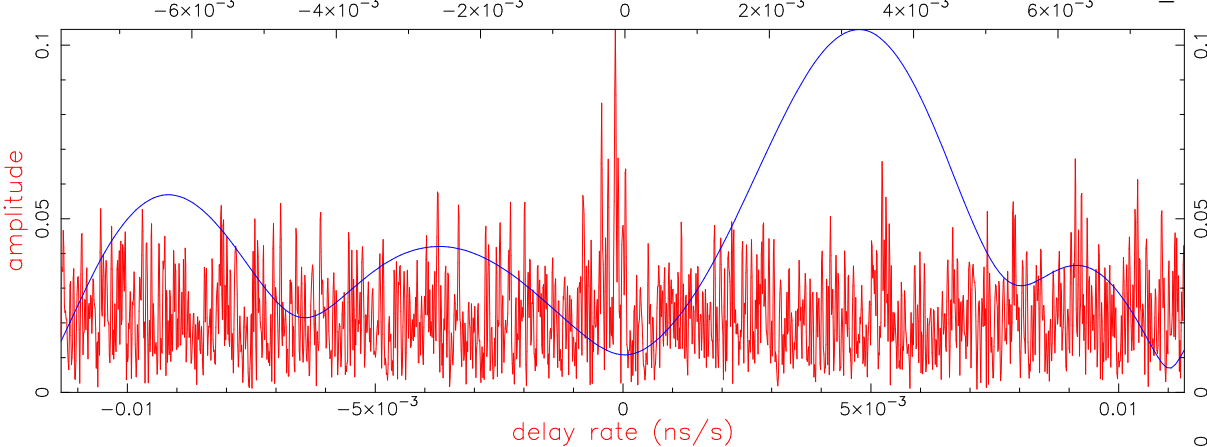
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, Np

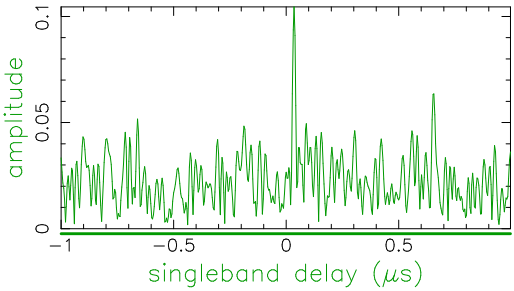
NOEMA - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)

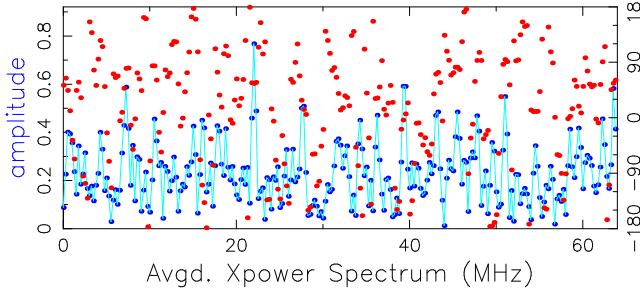


Fringe quality 0

SNR 5.9
 Int time 419.683
 Amp 0.105
 Phase 59.2
 PFD 7.0e-01
 Delays (us)
 SBD 0.034953
 MBD 0.003232
 Fringe rate (Hz)
 -0.013687
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

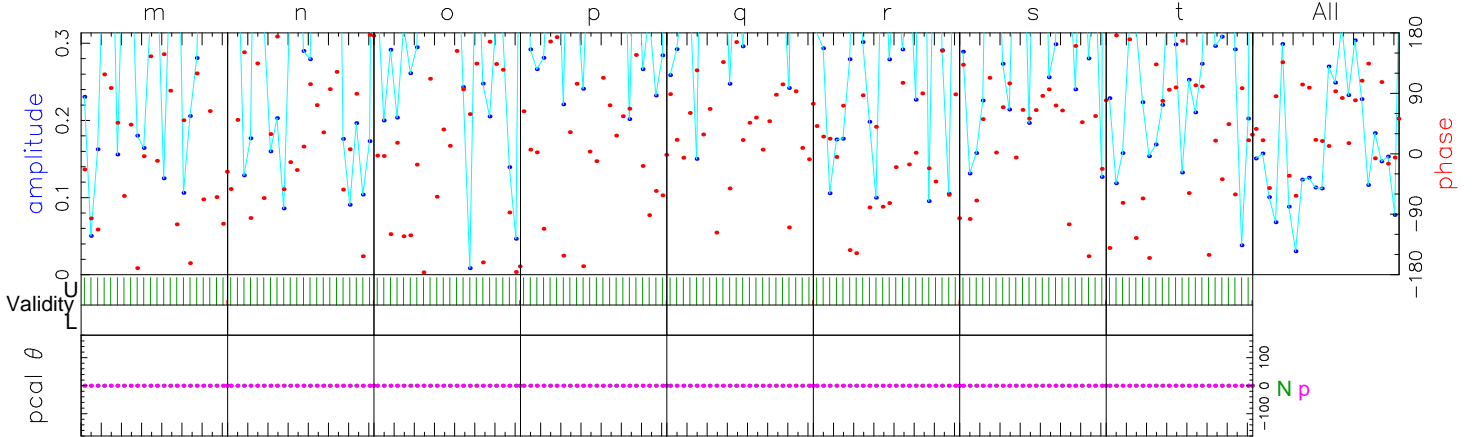


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193015
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
N	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.32782532364E+04	Apriori delay (usec)	1.32782187539E+04	Resid mbdelay (usec)	3.23249E-03	+/-	1.9E-04
Sband delay (usec)	1.32782537067E+04	Apriori clock (usec)	-1.9076902E+01	Resid sbdelay (usec)	3.49527E-02	+/-	1.5E-03
Phase delay (usec)	1.32782187558E+04	Apriori clockrate (us/s)	-3.6439796E-07	Resid phdelay (usec)	1.90758E-06	+/-	6.3E-07
Delay rate (us/s)	-1.65910084491E+00	Apriori rate (us/s)	-1.65910068602E+00	Resid rate (us/s)	-1.58893E-07	+/-	2.6E-09
Total phase (deg)	225.2	Apriori accel (us/s/s)	-6.53322057185E-05	Resid phase (deg)	59.2	+/-	19.6

ph/seg (deg)	60.5	Theor.	46.9	Amplitude	0.105 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	99.2		81.9	Search (2048X32)	0.101	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	46.1		27.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	76.9		48.3	Inc. seg. avg.	0.125	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.104	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 227.9 el 58.0 pa 34.5 p: az 73.6 el 11.7 pa -57.6 u,v (fr/asec) 10005.702 -760.729 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/Np..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/Np.W.232.3MP4LY

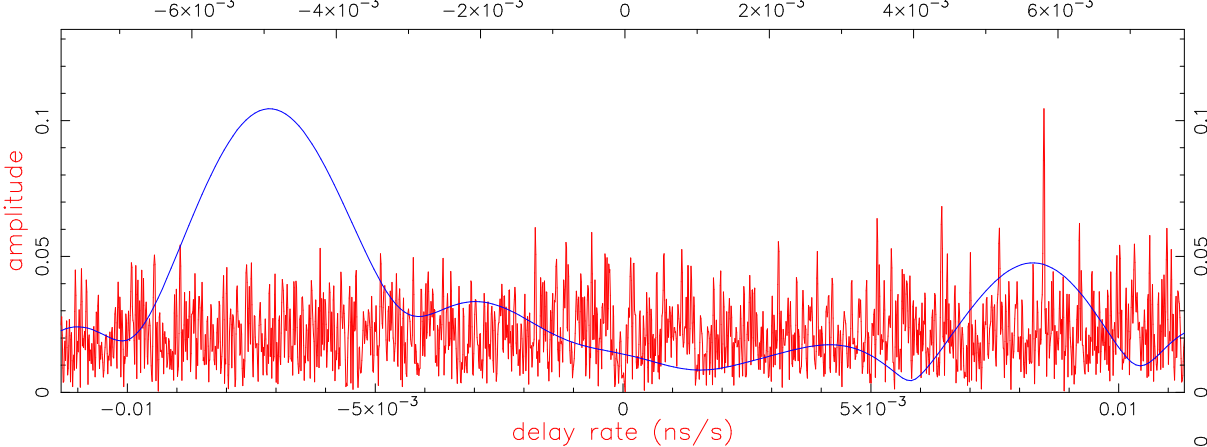
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NP

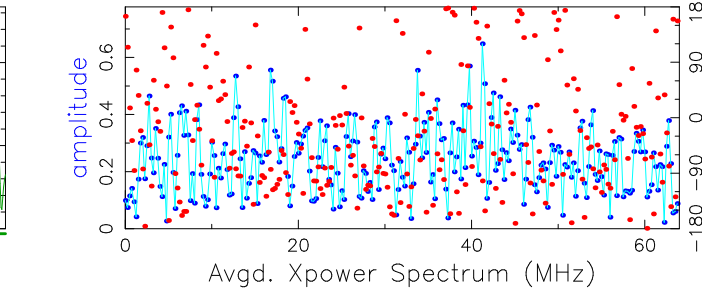
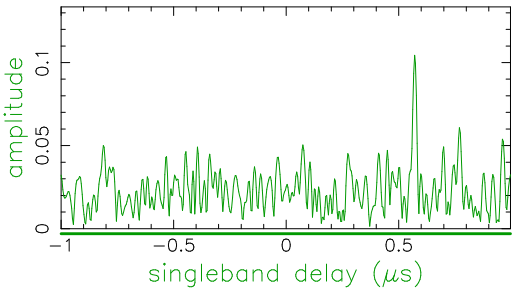
NOEMA - PICOVEL, fgroup W, pol LR

multiband delay (μ s)



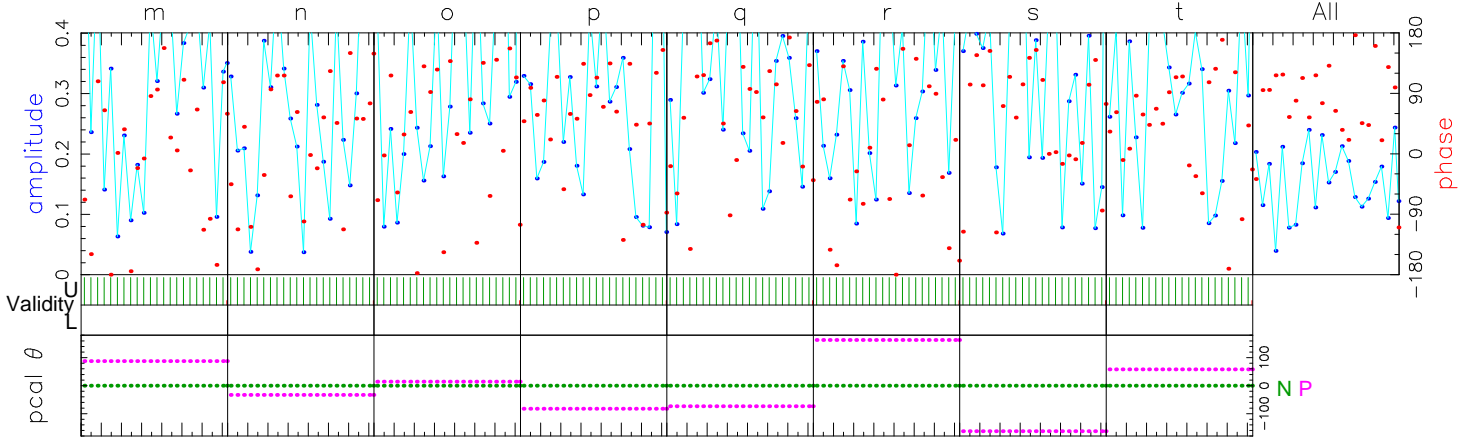
Fringe quality 0

SNR 5.9
 Int time 419.820
 Amp 0.134
 Phase 78.9
 PFD 6.7e-01
 Delays (us)
 SBD 0.571130
 MBD -0.004930
 Fringe rate (Hz)
 0.732672
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193018
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	73.4	48.0	82.9	94.5	98.6	91.5	89.9	47.6	Phase	78.9
	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	40.0	123.4	324.7	403.7	256.2	219.9	307.0	293.4	Sbd box	403.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.77509568782E+03	Apriori delay (usec)	-1.77566888271E+03	Resid mbdelay (usec)	-4.93011E-03	+/-	1.8E-04
Sband delay (usec)	-1.77509775296E+03	Apriori clock (usec)	-1.2505396E+01	Resid sbdelay (usec)	5.71130E-01	+/-	1.5E-03
Phase delay (usec)	-1.77566888016E+03	Apriori clockrate (us/s)	-5.8393806E-07	Resid phdelay (usec)	2.54511E-06	+/-	6.3E-07
Delay rate (us/s)	-1.21193373785E-01	Apriori rate (us/s)	-1.21201879386E-01	Resid rate (us/s)	8.50560E-06	+/-	2.6E-09
Total phase (deg)	-121.4	Apriori accel (us/s/s)	1.32331539815E-05	Resid phase (deg)	78.9	+/-	19.5

ph/seg (deg)	RMS 51.5	Theor. 46.8	Amplitude Search (2048X32)	0.134 +/- 0.023	0.102	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.4	81.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	22.0	27.6	Inc. seg. avg.	0.149	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	mb window (us) -0.008 0.008
amp/frq (%)	42.8	48.2	Inc. frq. avg.	0.127	Data rate(Mb/s): 2048	ion window (TEC)	dr window (ns/s) -0.011 0.011

N: az 227.9 el 58.0 pa 34.5 P: az 222.6 el 68.3 pa 35.6 u, v (fr/asec) 758.169 1206.731 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NP..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NP.W.245.3MP4LY

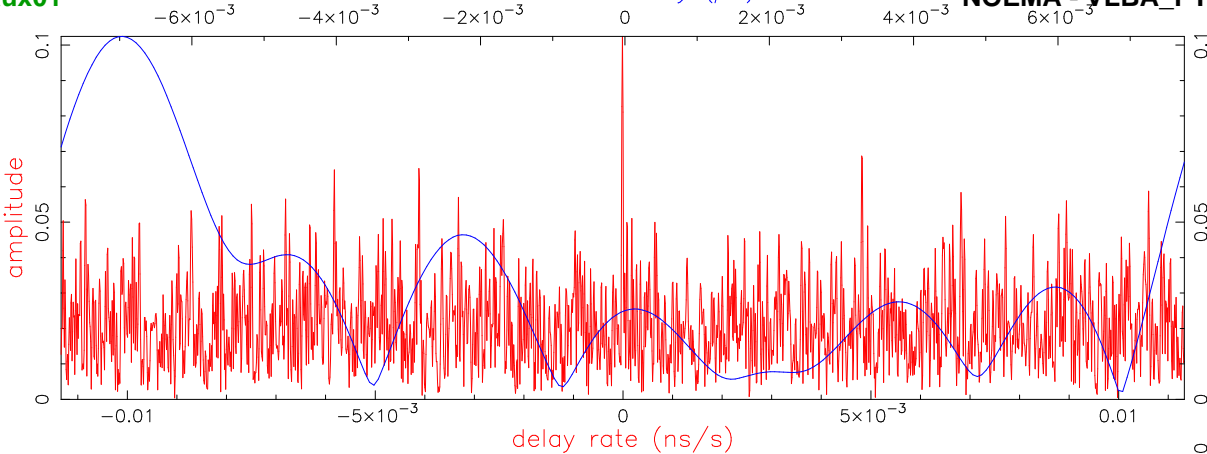
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, Np

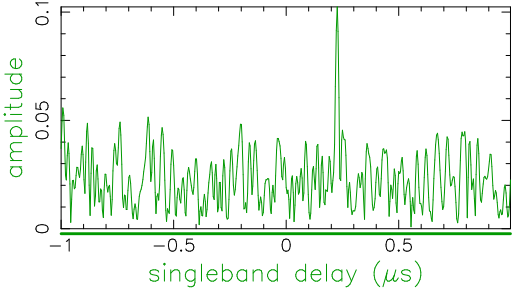
NOEMA - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

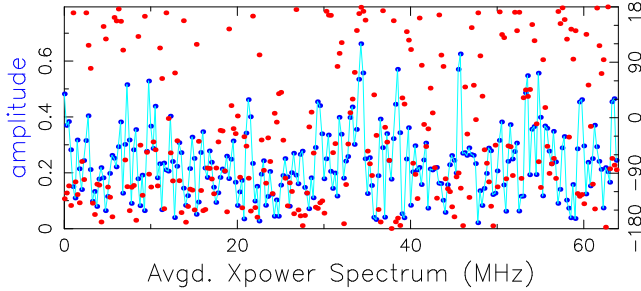


Fringe quality 0

SNR 5.7
 Int time 419.682
 Amp 0.102
 Phase 39.4
 PFD 9.1e-01
 Delays (us)
 SBD 0.226584
 MBD -0.006972
 Fringe rate (Hz)
 -0.000820
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

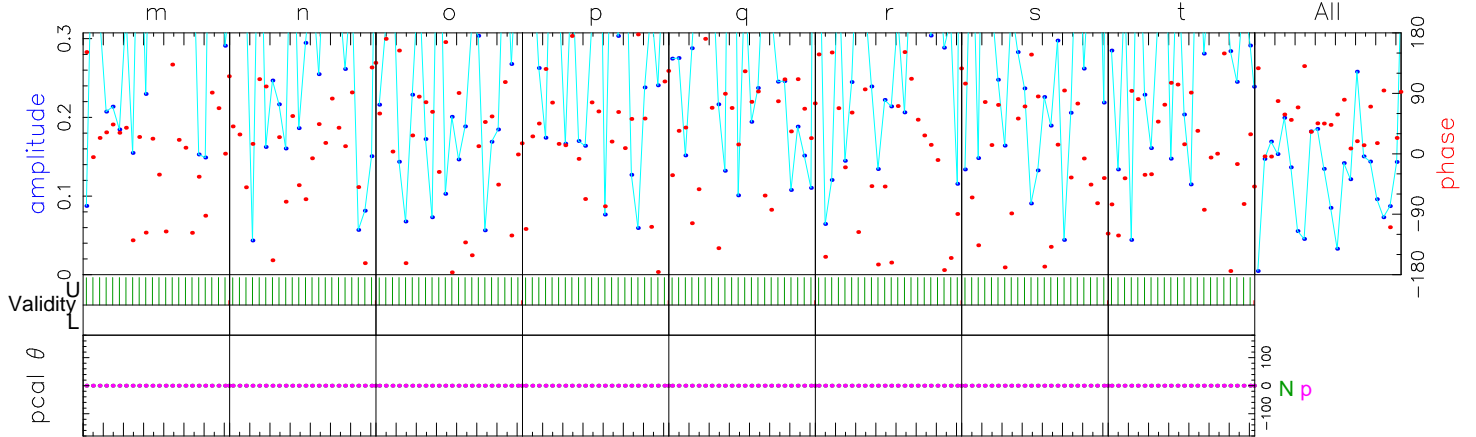


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193019
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
N	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	1.32784461571E+04		Apriori delay (usec)		1.32782187539E+04		Resid mbdelay (usec)		-6.97179E-03	+/- 1.9E-04
Sband delay (usec)	1.32784453384E+04		Apriori clock (usec)		-1.9076902E+01		Resid sbdelay (usec)		2.26584E-01	+/- 1.5E-03
Phase delay (usec)	1.32782187552E+04		Apriori clockrate (us/s)		-3.6439796E-07		Resid phdelay (usec)		1.26995E-06	+/- 6.4E-07
Delay rate (us/s)	-1.65910069553E+00		Apriori rate (us/s)		-1.65910068602E+00		Resid rate (us/s)		-9.51451E-09	+/- 2.7E-09
Total phase (deg)	205.4		Apriori accel (us/s/s)		-6.53322057185E-05		Resid phase (deg)		39.4	+/- 20.0
ph/seg (deg)	RMS 49.5	Theor. 47.9	Amplitude 49.5	0.102 +/- 0.018	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	64.1	83.6	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	28.6	28.2	Inc. seg. avg.	0.094	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		nlags: 256 t_cohere infinite		dr window (ns/s)	-0.011 0.011
amp/frq (%)	34.8	49.3	Inc. frq. avg.	0.098	Data rate(Mb/s): 2048		ion window (TEC)		0.00 0.00	
N: az 227.9 el 58.0 pa 34.5	p: az 73.6 el 11.7 pa -57.6		u, v (fr/asec) 10005.702 -760.729		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No1205/Np..3MP4LY		Output file: /Exps/c241b/v2/3mm/1234/No1205/Np.W.253.3MP4LY							

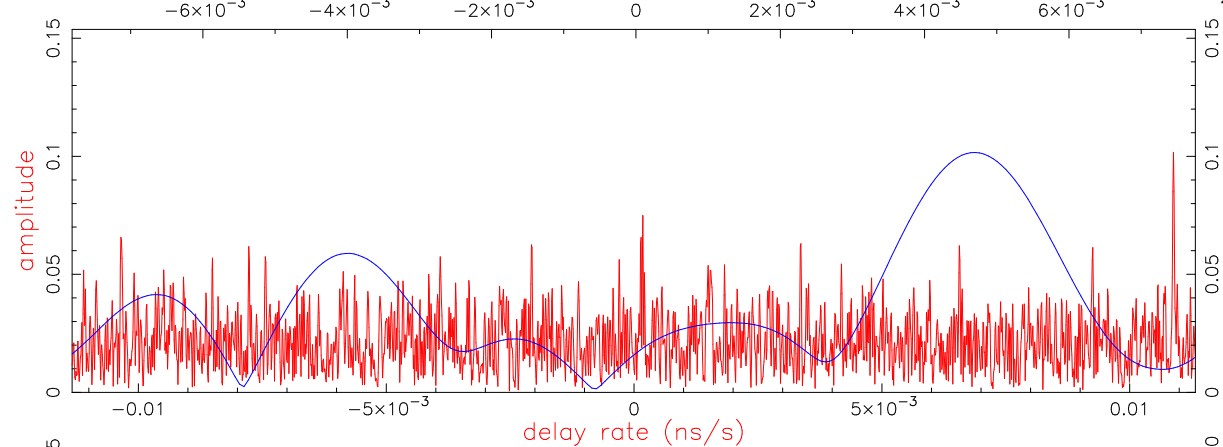
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NP

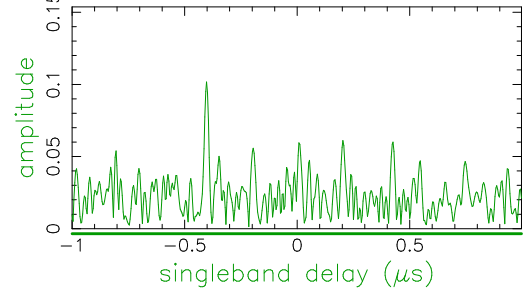
NOEMA - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

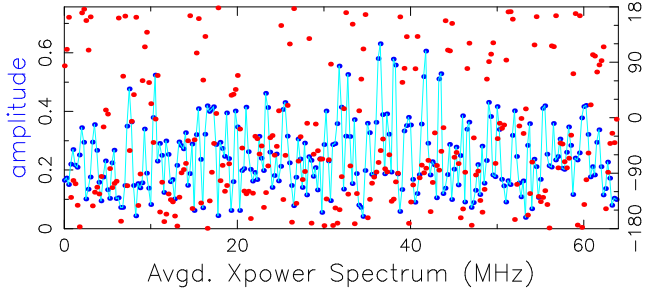


Fringe quality 0

SNR 5.7
 Int time 419.819
 Amp 0.154
 Phase -123.2
 PFD 9.5e-01
 Delays (us)
 SBD -0.402436
 MBD 0.004687
 Fringe rate (Hz)
 0.939107
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

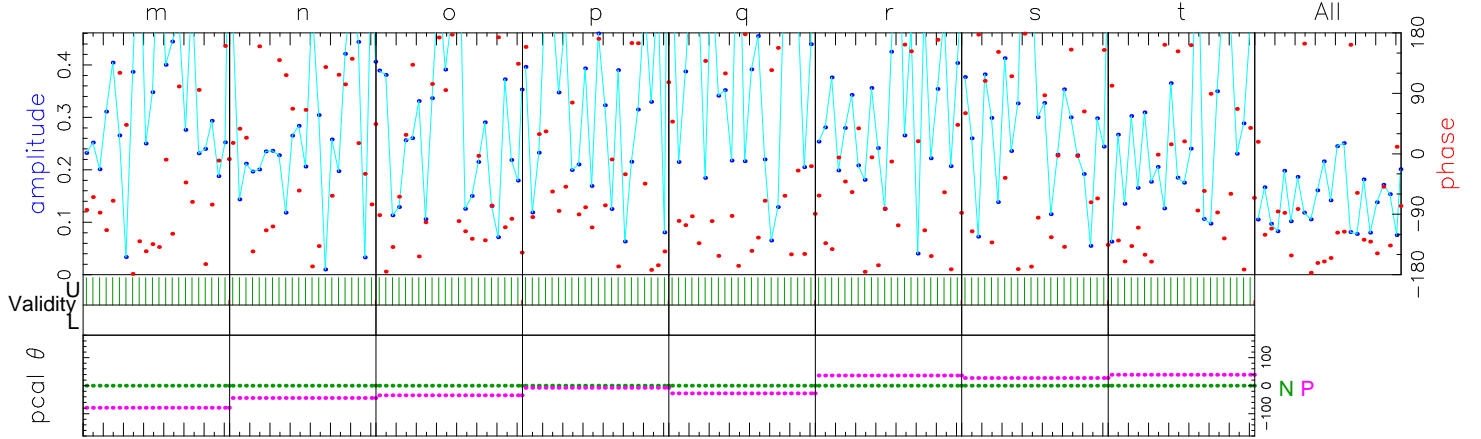


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193023
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.4	129.6	-148.0	-109.9	-117.2	-100.7	-174.7	-104.9	Phase	-123.2
	0.2	0.0	0.2	0.1	0.3	0.2	0.1	0.1	Ampl.	0.2
	155.0	441.7	156.1	45.1	154.2	78.1	99.0	330.6	Sbd box	154.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.77607044586E+03	Apriori delay (usec)	-1.77566888271E+03	Resid mbdelay (usec)	4.68685E-03	+/-	1.9E-04
Sband delay (usec)	-1.77607131821E+03	Apriori clock (usec)	-1.2505396E+01	Resid sbdelay (usec)	-4.02436E-01	+/-	1.5E-03
Phase delay (usec)	-1.77566888668E+03	Apriori clockrate (us/s)	-5.8393806E-07	Resid phdelay (usec)	-3.97199E-06	+/-	6.5E-07
Delay rate (us/s)	-1.21190977280E-01	Apriori rate (us/s)	-1.21201879386E-01	Resid rate (us/s)	1.09021E-05	+/-	2.7E-09
Total phase (deg)	-323.5	Apriori accel (us/s/s)	1.32331539815E-05	Resid phase (deg)	-123.2	+/-	20.1

ph/seg (deg)	RMS 56.9	Theor. 48.3	Amplitude Search (2048X32)	0.099	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.6	84.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	51.5	28.5	Inc. seg. avg.	0.160	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	51.8	49.7	Inc. frq. avg.	0.151	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

N: az 227.9 el 58.0 pa 34.5 P: az 222.6 el 68.3 pa 35.6 u,v (fr/asec) 758.169 1206.731 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NP..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NP.W.264.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

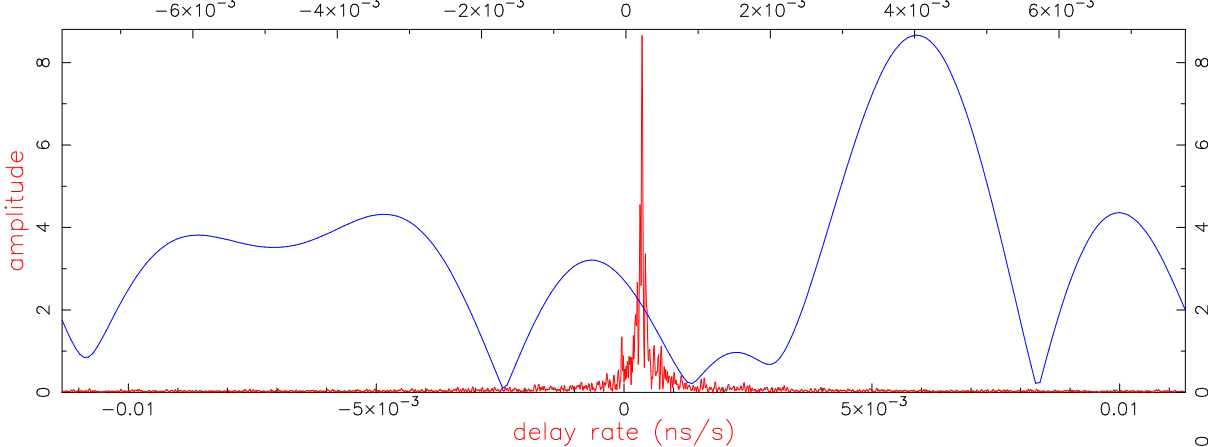
aux01

OJ287.3MP4LY, No1205, NX

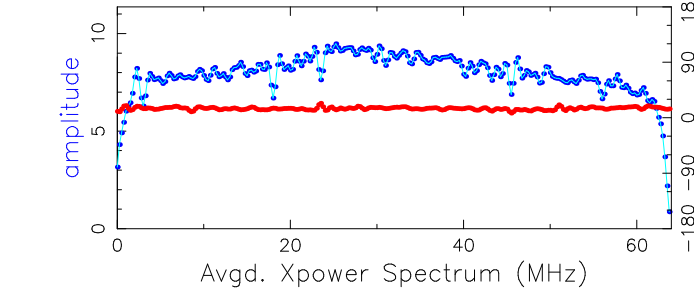
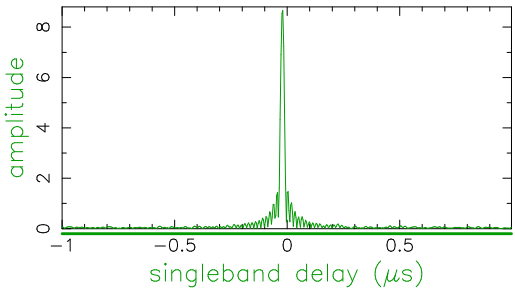
NOEMA - ONSALA60, fgroup W, pol LL

multiband delay (μ s)

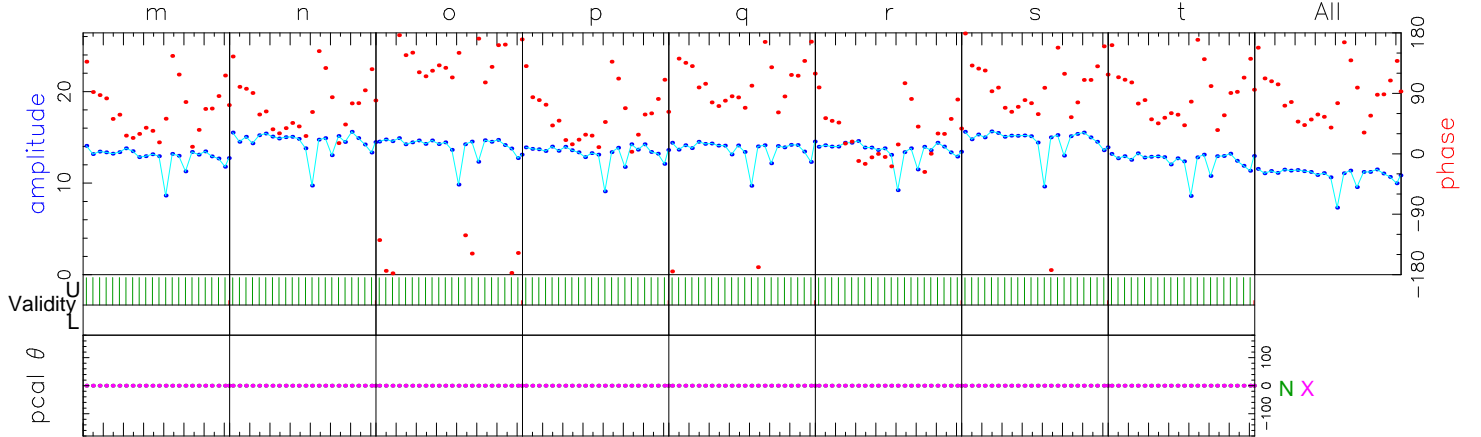
Fringe quality 3



SNR 493.1
 Int time 419.668
 Amp 8.805
 Phase 85.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.021180
 MBD 0.003989
 Fringe rate (Hz) 0.031371
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193002
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	64.6	72.4	159.0	56.7	113.6	27.2	106.1	88.1	Phase	85.4
	10.2	11.5	11.2	10.5	10.9	10.8	11.7	9.9	Ampl.	10.8
	253.0	251.3	251.2	250.7	250.9	251.0	251.4	251.9	Sbd box	251.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	2.51653346692E+03	Apriori delay (usec)	2.51656072776E+03	Resid mbdelay (usec)	3.98916E-03	+/-	2.2E-06
Sband delay (usec)	2.51653954751E+03	Apriori clock (usec)	-1.2619698E+02	Resid sbdelay (usec)	-2.11802E-02	+/-	1.7E-05
Phase delay (usec)	2.51656073051E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	2.75441E-02	+/-	7.5E-09
Delay rate (us/s)	-3.76846899750E-02	Apriori rate (us/s)	-3.76850541559E-02	Resid rate (us/s)	3.64181E-07	+/-	3.1E-11
Total phase (deg)	117.5	Apriori accel (us/s/s)	-1.94531083413E-05	Resid phase (deg)	85.4	+/-	0.2

ph/seg (deg)	38.0	RMS	Theor.	Amplitude	8.805 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	25.9	38.0	0.6	Search (2048X32)	8.538	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	43.7	25.9	1.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	24.1	43.7	0.3	Inc. seg. avg.	10.894	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
		24.1	0.6	Inc. frq. avg.	10.843	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 227.9 el 58.0 pa 34.5 X: az 224.1 el 46.3 pa 23.7 u,v (fr/asec) 200.916 -1722.059 simultaneous interpolator

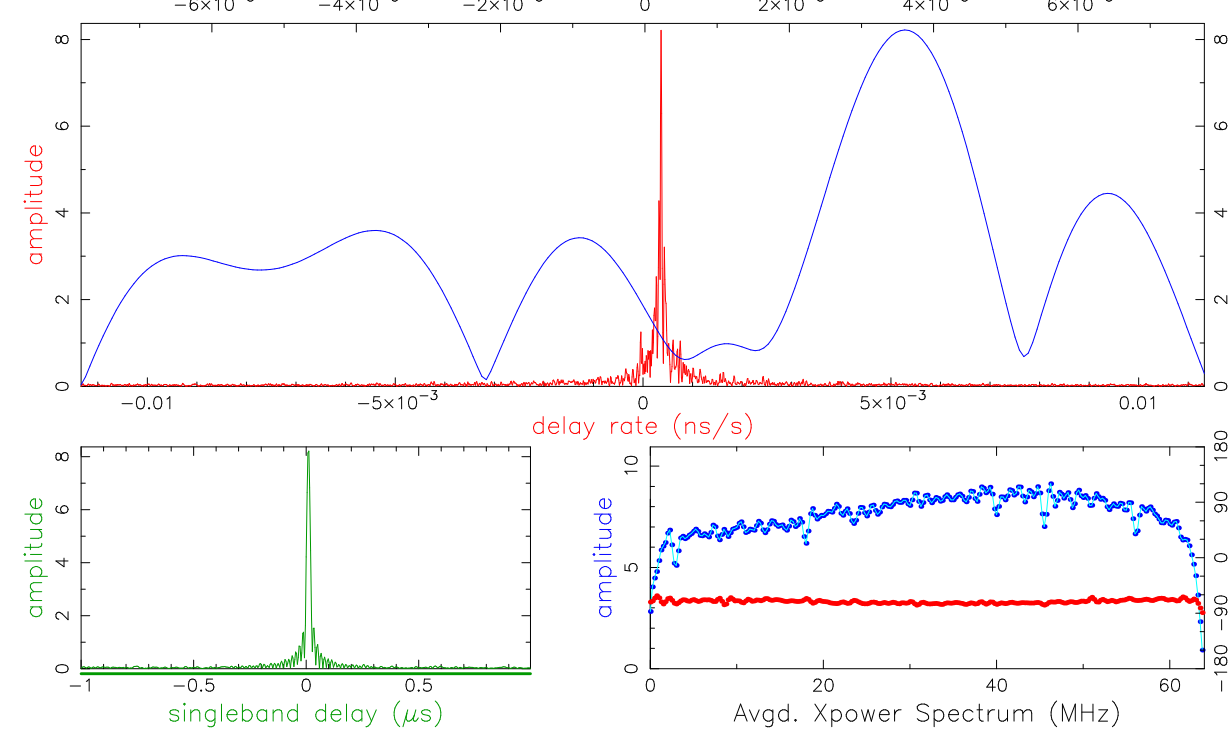
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NX..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NX.W.199.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

aux01

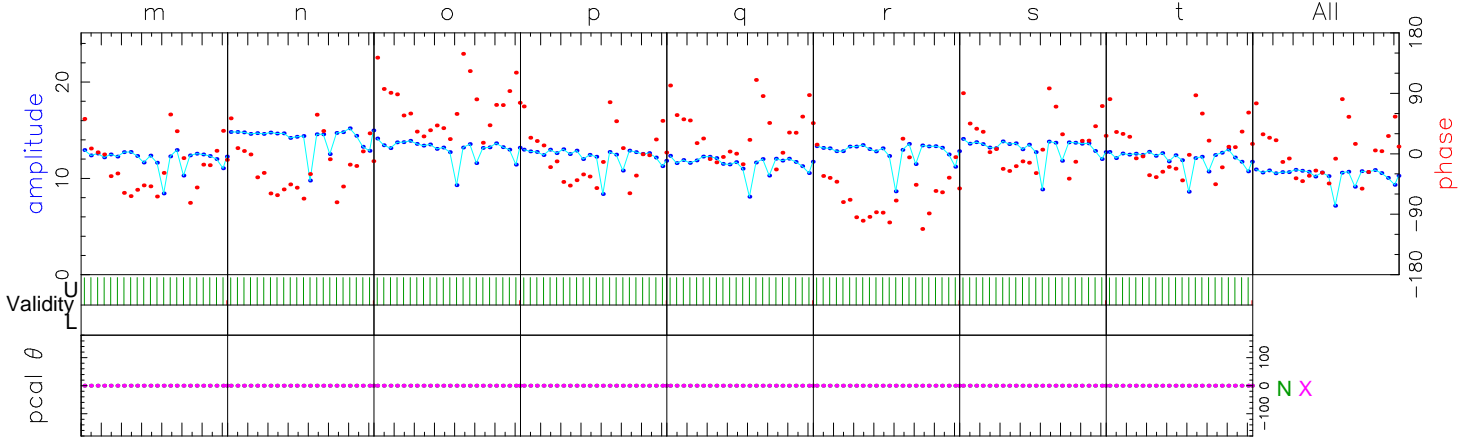
OJ287.3MP4LY, No1205, NX

NOEMA - ONSALA60, fgroup W, pol RR



Fringe quality 3
 SNR 468.8
 Int time 419.667
 Amp 8.371
 Phase 1.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.009947
 MBD 0.003554
 Fringe rate (Hz) 0.031356
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193008
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.3	-19.9	69.5	-4.1	30.6	-58.8	16.7	7.0	Phase	1.8
	9.6	11.3	10.4	9.7	9.1	10.2	10.4	9.6	Ampl.	10.0
	260.5	259.5	259.0	258.8	258.6	259.0	259.3	260.2	Sbd box	259.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 2.51656428211E+03 Apriori delay (usec) 2.51656072776E+03 Resid mbdelay (usec) 3.55435E-03 +/- 2.3E-06
 Sband delay (usec) 2.51657067501E+03 Apriori clock (usec) -1.2619698E+02 Resid sbdelay (usec) 9.94725E-03 +/- 1.8E-05
 Phase delay (usec) 2.51656072782E+03 Apriori clockrate (us/s) -1.2023240E-02 Resid phdelay (usec) 5.92345E-08 +/- 7.9E-09
 Delay rate (us/s) -3.76846901408E-02 Apriori rate (us/s) -3.76850541559E-02 Resid rate (us/s) 3.64015E-07 +/- 3.3E-11
 Total phase (deg) 33.9 Apriori accel (us/s/s) -1.94531083413E-05 Resid phase (deg) 1.8 +/- 0.2

RMS Theor. Amplitude 8.371 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 38.0 0.6 Search (2048X32) 8.058 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 25.5 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 41.4 0.3 Inc. seg. avg. 10.339 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 21.4 0.6 Inc. frq. avg. 10.044 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 227.9 el 58.0 pa 34.5 X: az 224.1 el 46.3 pa 23.7 u,v (fr/asec) 200.916 -1722.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NX..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NX.W.220.3MP4LY

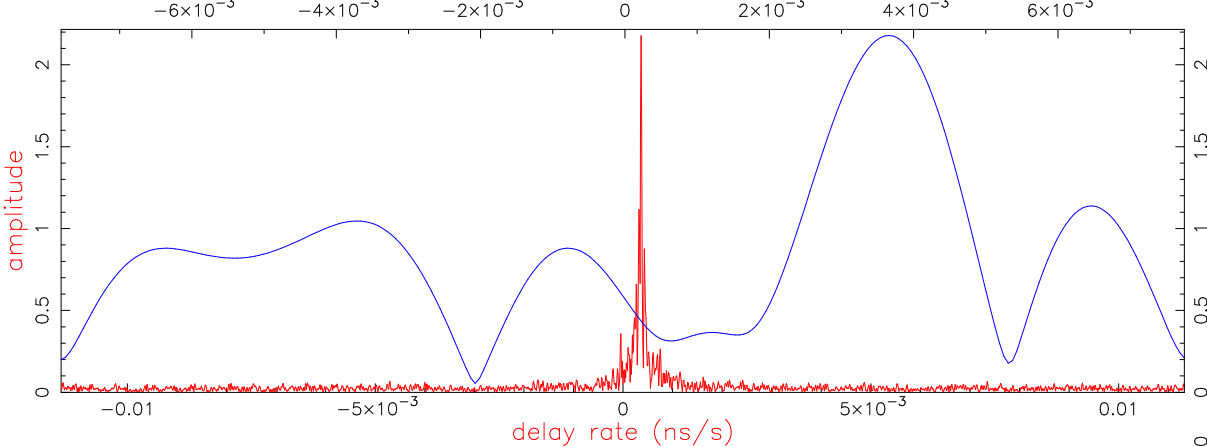
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NX

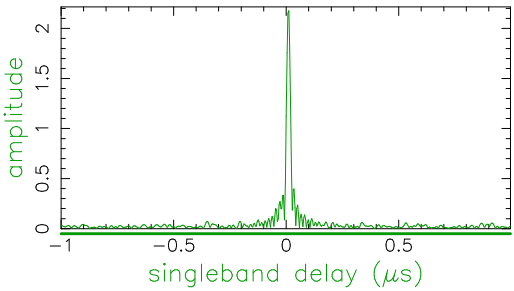
NOEMA - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

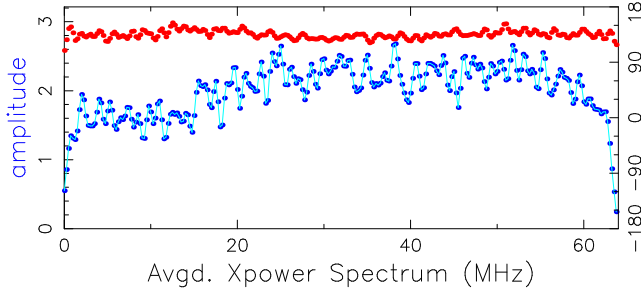


Fringe quality 3

SNR 124.1
 Int time 419.668
 Amp 2.216
 Phase -152.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.010016
 MBD 0.003612
 Fringe rate (Hz)
 0.031402
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

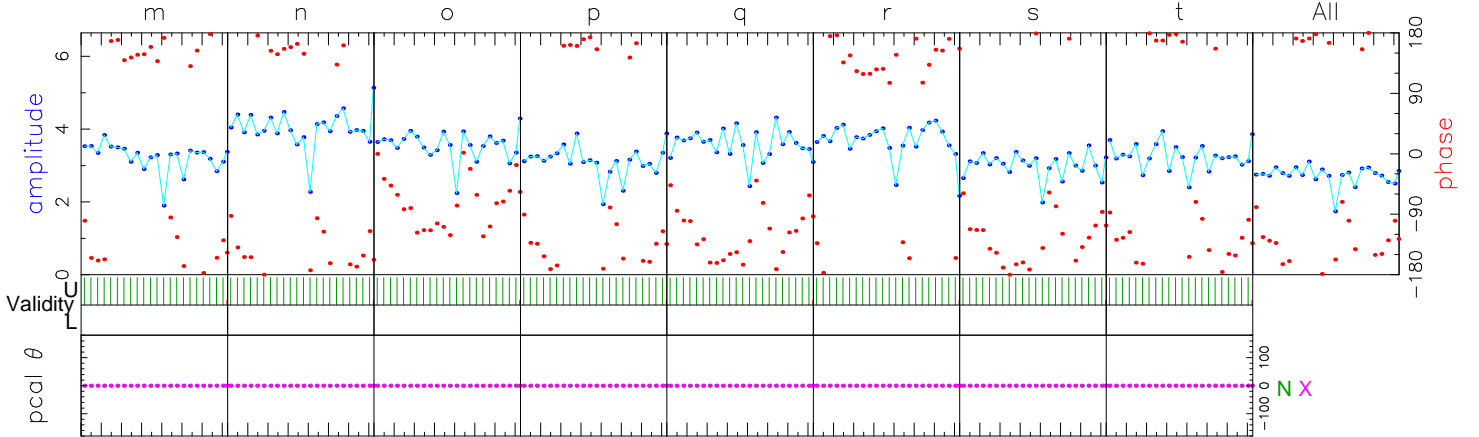


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193015
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-178.3	-170.1	-73.7	-162.2	-120.4	154.2	-134.6	-149.9	Phase	-152.0
	2.6	3.2	2.8	2.5	2.9	3.1	2.4	2.6	Ampl.	2.7
	260.6	259.4	259.1	258.7	258.8	259.2	259.2	260.4	Sbd box	259.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	2.51656433970E+03	Apriori delay (usec)	2.51656072776E+03	Resid mbdelay (usec)	3.61194E-03	+/-	8.7E-06
Sband delay (usec)	2.51657074376E+03	Apriori clock (usec)	-1.2619698E+02	Resid sbdelay (usec)	1.00160E-02	+/-	6.9E-05
Phase delay (usec)	2.51656072286E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	-4.90026E-06	+/-	3.0E-08
Delay rate (us/s)	-3.76846896086E-02	Apriori rate (us/s)	-3.76850541559E-02	Resid rate (us/s)	3.64547E-07	+/-	1.2E-10
Total phase (deg)	-119.9	Apriori accel (us/s/s)	-1.94531083413E-05	Resid phase (deg)	-152.0	+/-	0.9

ph/seg (deg)	37.5	2.2	Search (2048X32)	2.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	25.9	3.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	43.7	1.3	Inc. seg. avg.	2.723	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	26.3	2.3	Inc. frq. avg.	2.735	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
					Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 227.9 el 58.0 pa 34.5 X: az 224.1 el 46.3 pa 23.7 u,v (fr/asec) 200.916 -1722.059 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NX..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NX.W.234.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

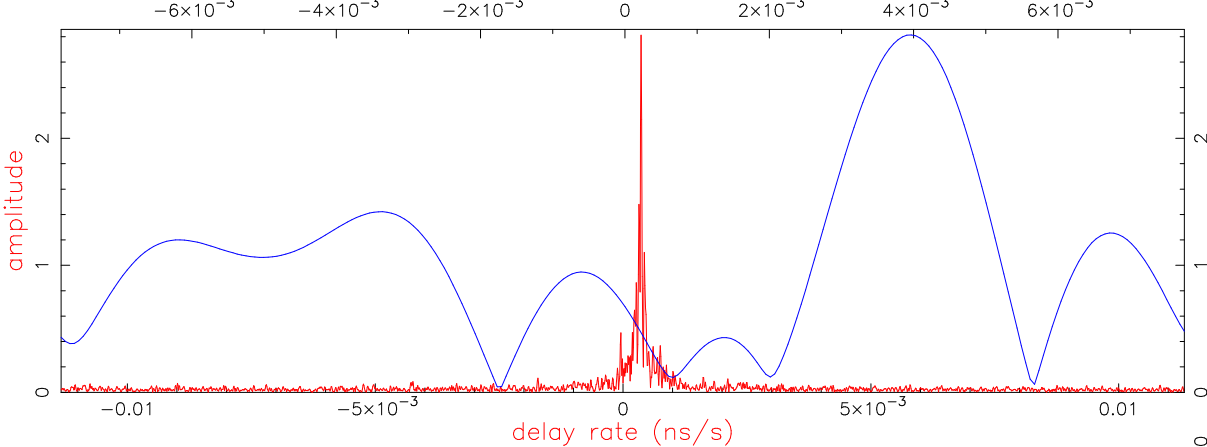
aux01

OJ287.3MP4LY, No1205, NX

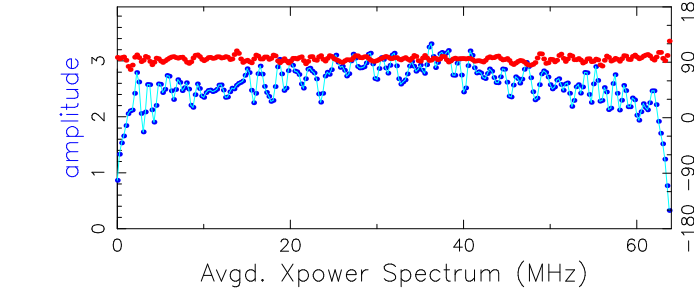
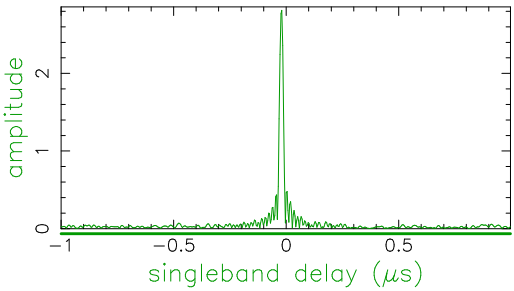
NOEMA - ONSALA60, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 3

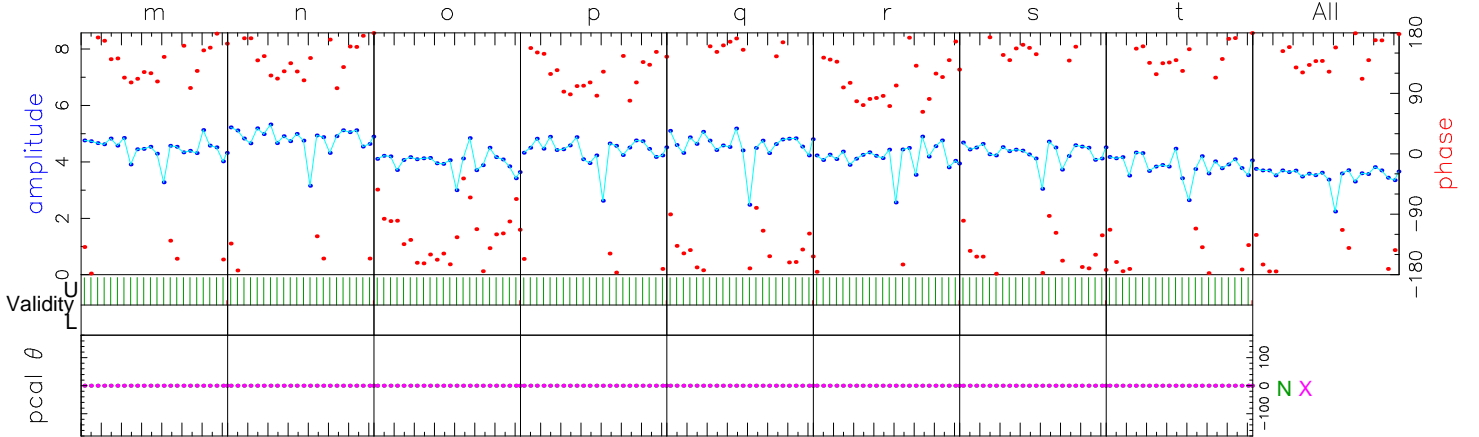


SNR 160.0
Int time 419.667
Amp 2.857
Phase 166.8
PFD 0.0e+00
Delays (us)
SBD -0.021140
MBD 0.003913
Fringe rate (Hz)
0.031362
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2024:365:162308
2025:041:193019
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	152.1	155.0	-120.3	132.2	-163.4	114.8	-171.1	168.6	Phase	166.8
	3.6	3.8	3.2	3.5	3.7	3.3	3.4	3.1	Ampl.	3.4
	253.1	251.4	251.0	250.9	251.0	250.9	251.3	251.9	Sbd box	251.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	2.51653339054E+03	Apriori delay (usec)	2.51656072776E+03	Resid mbdelay (usec)	3.91279E-03	+/-	6.8E-06
Sband delay (usec)	2.51653958826E+03	Apriori clock (usec)	-1.2619698E+02	Resid sbdelay (usec)	-2.11395E-02	+/-	5.4E-05
Phase delay (usec)	2.51656073314E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	5.37999E-06	+/-	2.3E-08
Delay rate (us/s)	-3.76846900692E-02	Apriori rate (us/s)	-3.76850541559E-02	Resid rate (us/s)	3.64087E-07	+/-	9.5E-11
Total phase (deg)	198.9	Apriori accel (us/s/s)	-1.94531083413E-05	Resid phase (deg)	166.8	+/-	0.7

ph/seg (deg)	37.8	RMS	1.7	Theor.	2.857 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	25.8	Search (2048X32)	2.774	Amplitude		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.7	Interp.	0.000	Search		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	22.4	Inc. seg. avg.	3.527	Inc. seg. avg.		Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	3.448	Inc. frq. avg.		Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 227.9 el 58.0 pa 34.5 X: az 224.1 el 46.3 pa 23.7 u,v (fr/asec) 200.916 -1722.059 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NX..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NX.W.254.3MP4LY

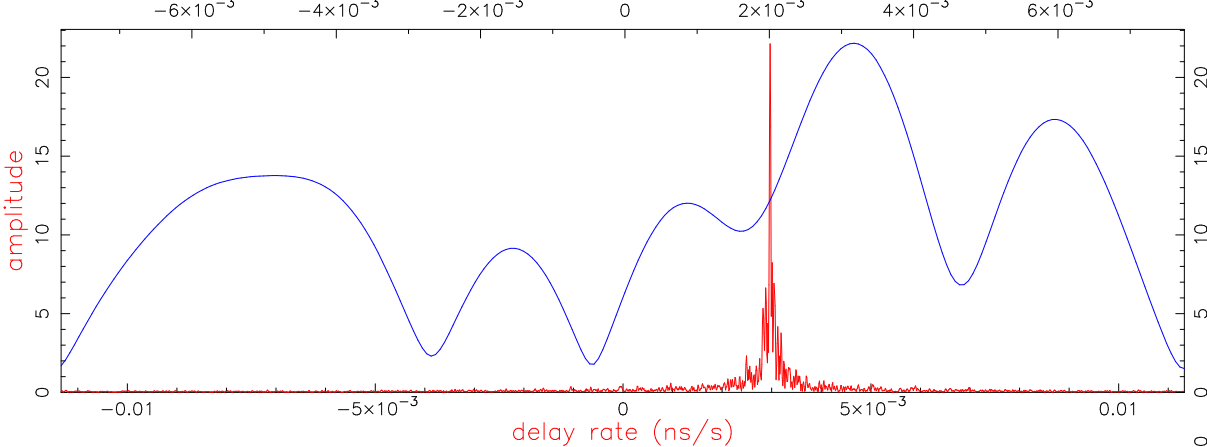
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NY

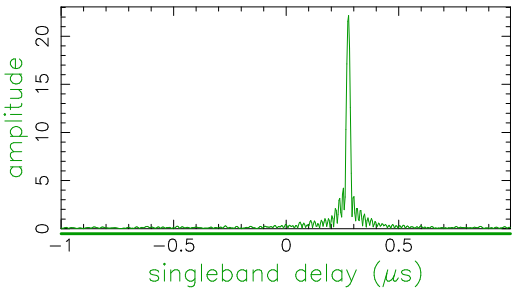
NOEMA - YEBES40M, fgroup W, pol LL

multiband delay (μ s)

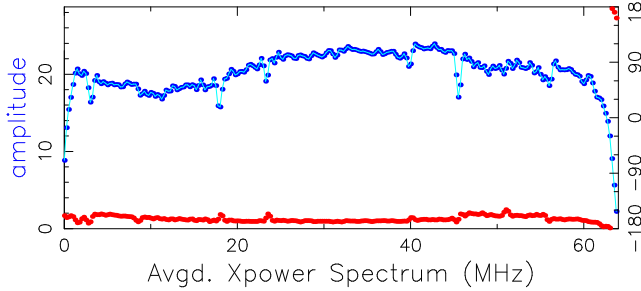


Fringe quality 3

SNR 1228.8
 Int time 402.017
 Amp 23.056
 Phase 98.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.275949
 MBD 0.003123
 Fringe rate (Hz)
 0.255572
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

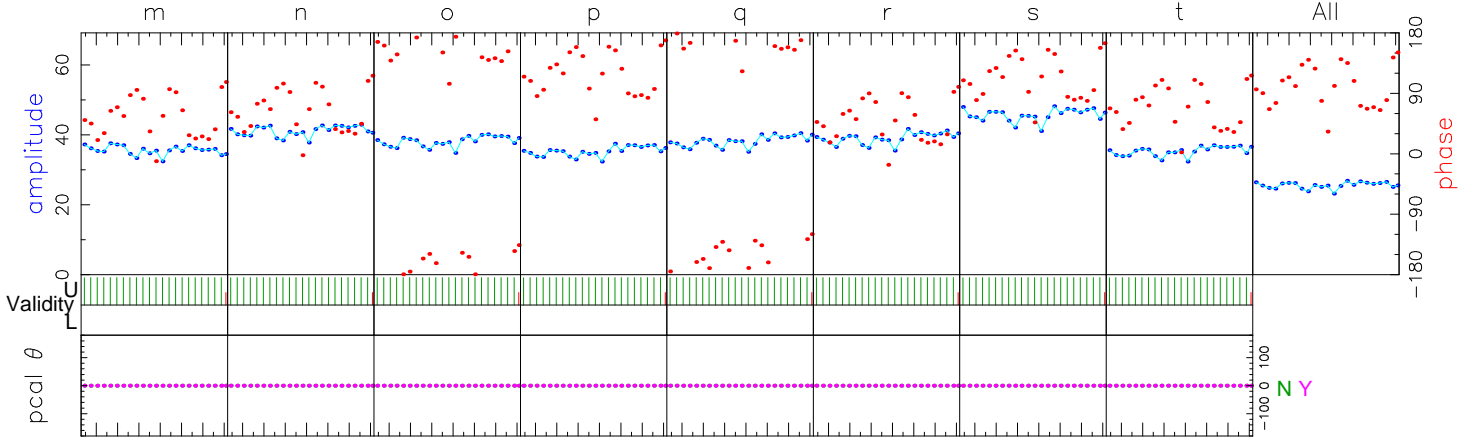


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201517.41
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193016
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	53.8	63.6	170.3	116.9	-172.2	48.3	112.0	67.6	Phase	98.4
	31.8	36.6	34.0	31.4	34.0	34.8	40.7	31.3	Ampl.	34.3
	329.2	327.7	327.2	326.9	326.5	326.7	327.5	327.1	Sbd box	327.6
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.25542876912E+03	Apriori delay (usec)	-1.25569751693E+03	Resid mbdelay (usec)	3.12280E-03	+/-	8.8E-07
Sband delay (usec)	-1.25542156793E+03	Apriori clock (usec)	9.7227974E+01	Resid sbdelay (usec)	2.75949E-01	+/-	7.0E-06
Phase delay (usec)	-1.25569751375E+03	Apriori clockrate (us/s)	-1.7547871E-06	Resid phdelay (usec)	3.17213E-06	+/-	3.0E-09
Delay rate (us/s)	-1.31324848294E-01	Apriori rate (us/s)	-1.31327815235E-01	Resid rate (us/s)	2.96694E-06	+/-	1.3E-11
Total phase (deg)	59.5	Apriori accel (us/s/s)	9.24194864730E-06	Resid phase (deg)	98.4	+/-	0.1

ph/seg (deg)	RMS 30.5	Theor. 0.2	Amplitude 23.056 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	14.7	0.4	Search (2048X32) 21.720	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	58.2	0.1	Inc. seg. avg. 26.312	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	50.6	0.2	Inc. frq. avg. 34.330	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
				Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
					ion window (TEC) 0.00 0.00

N: az 227.9 el 58.0 pa 34.5 Y: az 217.9 el 65.5 pa 30.3 u,v (fr/asec) 814.256 702.051 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NY..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NY.W.235.3MP4LY

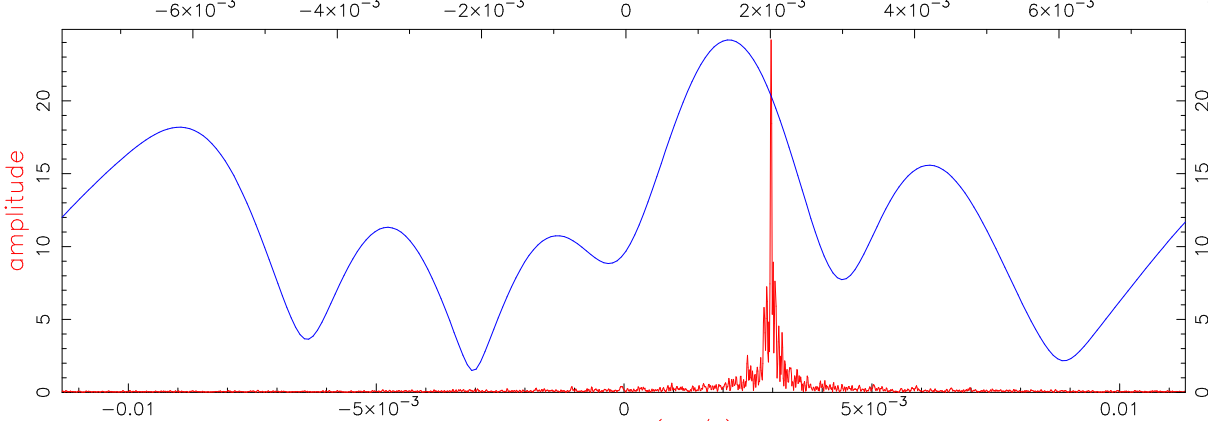
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NY

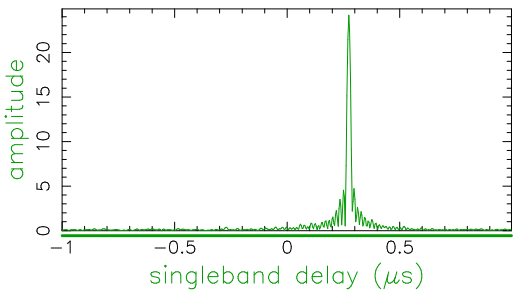
NOEMA - YEBES40M, fgroup W, pol RR

multiband delay (μ s)

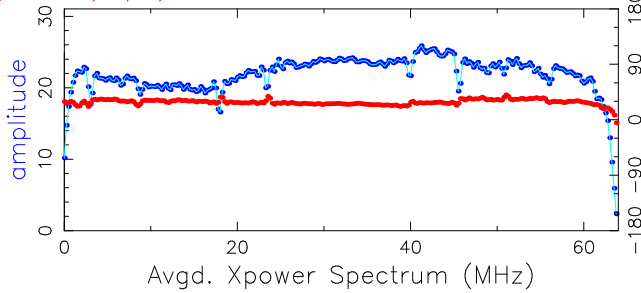


Fringe quality 3

SNR 1327.1
 Int time 402.016
 Amp 24.899
 Phase -73.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.273851
 MBD 0.001435
 Fringe rate (Hz)
 0.255600
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

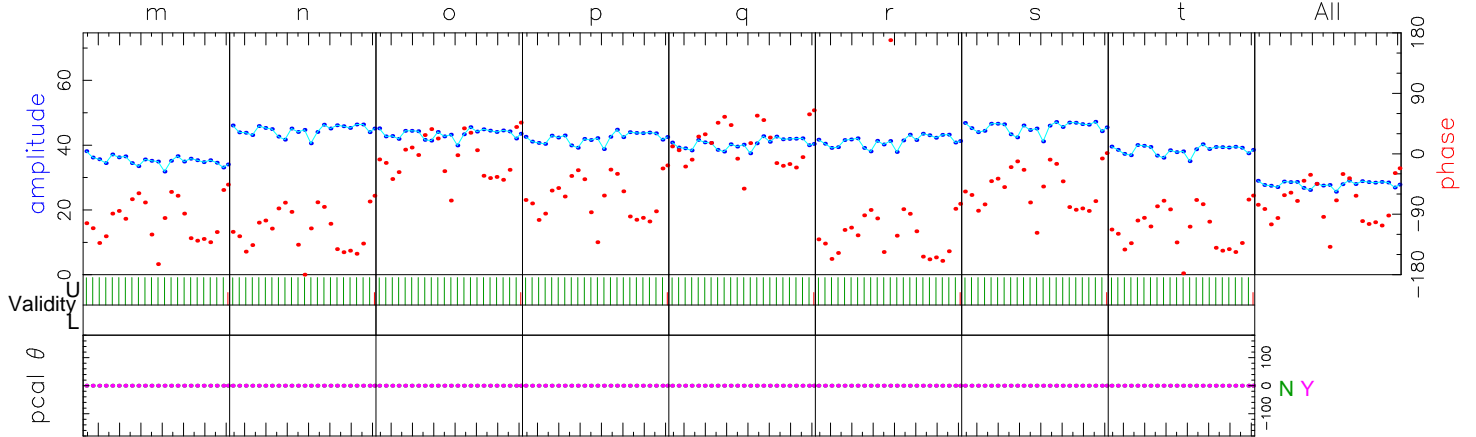


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201517.41
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193019
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-99.5	-114.6	-5.2	-66.4	13.5	-125.4	-52.2	-111.5	Phase	-73.1
	31.5	39.8	38.7	37.5	36.0	36.7	40.5	34.2	Ampl.	36.9
	328.6	326.7	326.9	326.5	326.1	326.3	326.9	327.0	Sbd box	327.1
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.25543045675E+03	Apriori delay (usec)	-1.25569751693E+03	Resid mbdelay (usec)	1.43518E-03	+/-	8.2E-07
Sband delay (usec)	-1.25542366643E+03	Apriori clock (usec)	9.7227974E+01	Resid sbdelay (usec)	2.73851E-01	+/-	6.5E-06
Phase delay (usec)	-1.25569751928E+03	Apriori clockrate (us/s)	-1.7547871E-06	Resid phdelay (usec)	-2.35742E-06	+/-	2.8E-09
Delay rate (us/s)	-1.31324847970E-01	Apriori rate (us/s)	-1.31327815235E-01	Resid rate (us/s)	2.96727E-06	+/-	1.2E-11
Total phase (deg)	-112.0	Apriori accel (us/s/s)	9.24194864730E-06	Resid phase (deg)	-73.1	+/-	0.1

ph/seg (deg)	30.5	0.2	Search (2048X32)	23.794	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	15.8	0.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	56.6	0.1	Inc. seg. avg.	28.724	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	49.3	0.2	Inc. frq. avg.	36.858	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 227.9 el 58.0 pa 34.5 Y: az 217.9 el 65.5 pa 30.3 u,v (fr/asec) 814.256 702.051 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NY..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NY.W.255.3MP4LY

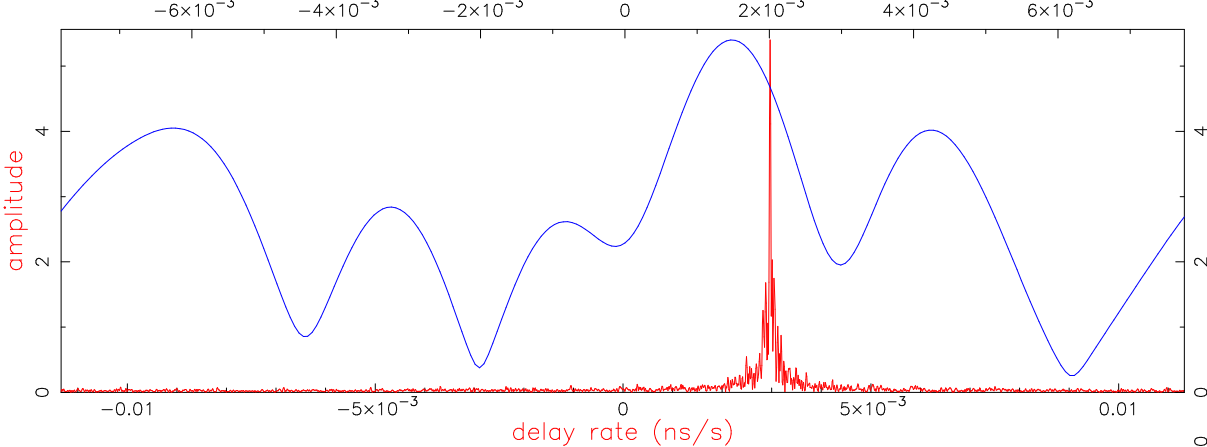
Mk4/DiFX fourfit 3.25 rev 0

aux01

OJ287.3MP4LY, No1205, NY

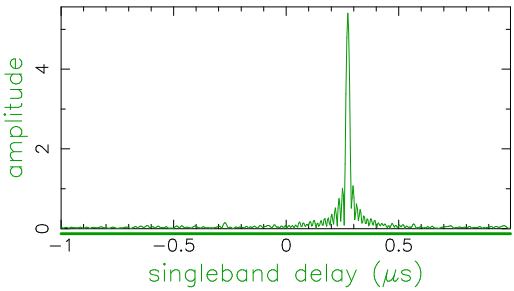
NOEMA - YEBES40M, fgroup W, pol LR

multiband delay (μ s)

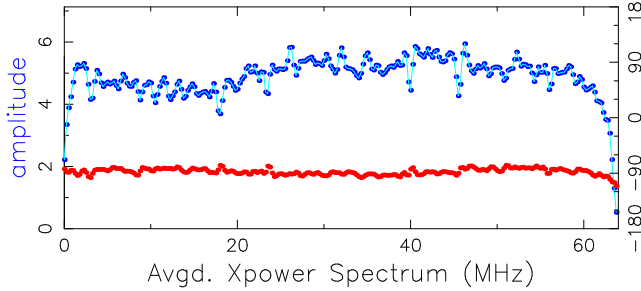


Fringe quality 3

SNR 296.5
 Int time 402.017
 Amp 5.563
 Phase 170.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.273863
 MBD 0.001491
 Fringe rate (Hz)
 0.255607
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

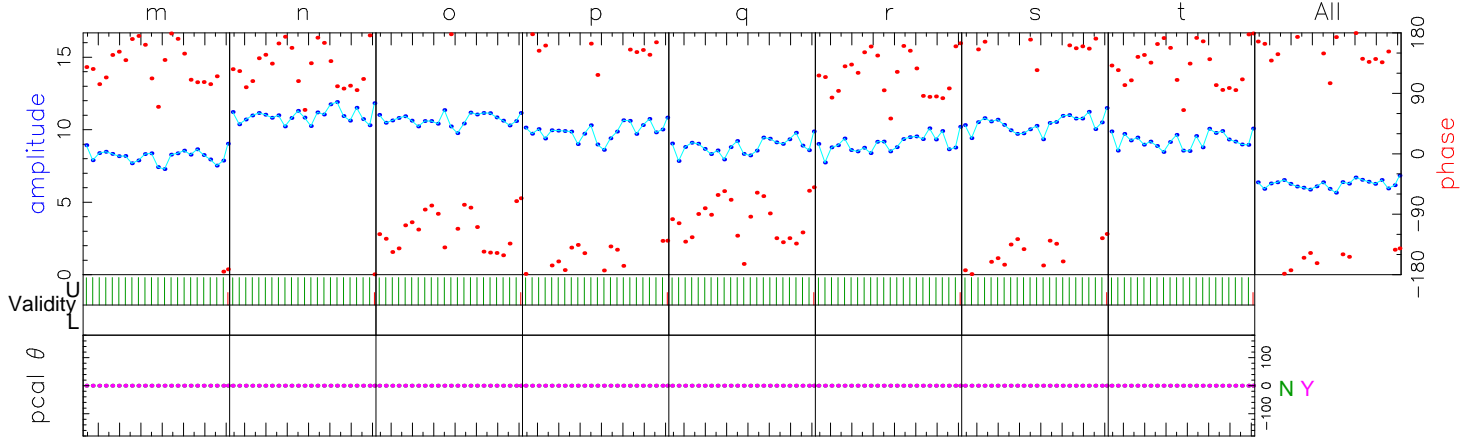


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201517.41
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193024
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	136.1	130.0	-116.9	-176.5	-98.3	117.0	-170.6	130.6	Phase	170.3
	7.3	9.7	9.5	8.8	7.9	8.0	9.2	8.2	Ampl.	8.6
	328.6	326.7	327.1	326.4	326.1	326.3	327.0	327.0	Sbd box	327.1
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.25543040094E+03	Apriori delay (usec)	-1.25569751693E+03	Resid mbdelay (usec)	1.49099E-03	+/-	3.7E-06
Sband delay (usec)	-1.25542365418E+03	Apriori clock (usec)	9.7227974E+01	Resid sbdelay (usec)	2.73863E-01	+/-	2.9E-05
Phase delay (usec)	-1.25569751144E+03	Apriori clockrate (us/s)	-1.7547871E-06	Resid phdelay (usec)	5.49015E-06	+/-	1.2E-08
Delay rate (us/s)	-1.31324847893E-01	Apriori rate (us/s)	-1.31327815235E-01	Resid rate (us/s)	2.96734E-06	+/-	5.4E-11
Total phase (deg)	131.4	Apriori accel (us/s/s)	9.24194864730E-06	Resid phase (deg)	170.3	+/-	0.4

ph/seg (deg)	RMS 30.6	Theor. 0.9	Amplitude 5.563 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	16.3	1.6	Search (2048X32) 5.343	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	59.7	0.5	Inc. seg. avg. 6.424	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	56.2	1.0	Inc. frq. avg. 8.579	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
				Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

N: az 227.9 el 58.0 pa 34.5 Y: az 217.9 el 65.5 pa 30.3 u,v (fr/asec) 814.256 702.051 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NY..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NY.W.268.3MP4LY

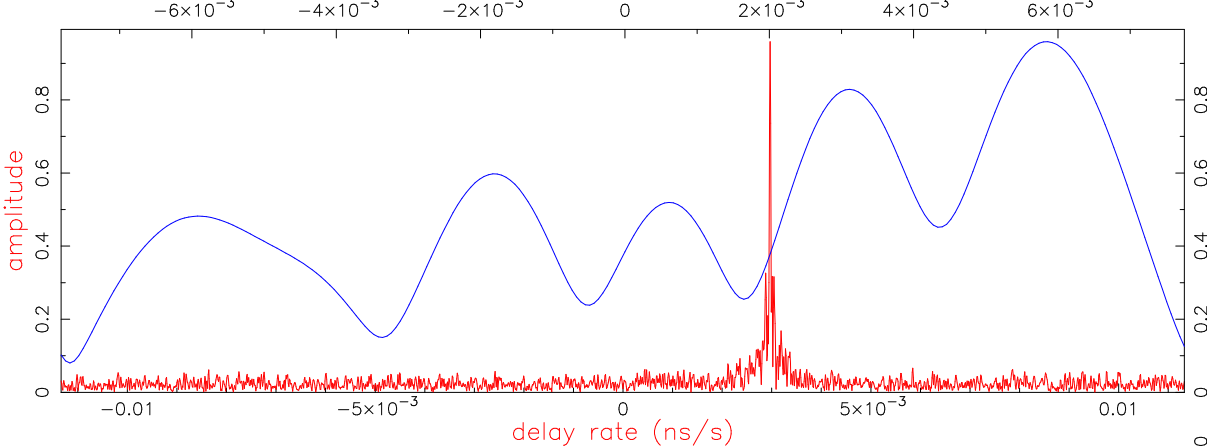
Mk4/DiFX fourfit 3.25 rev 0

aux01

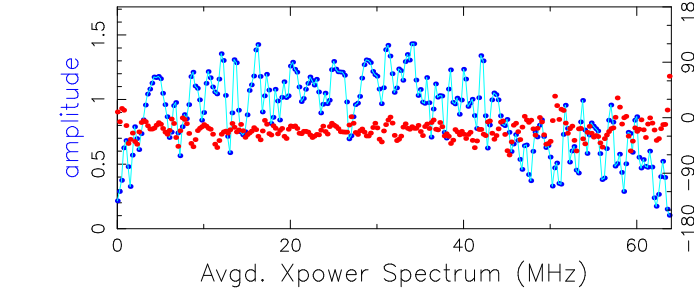
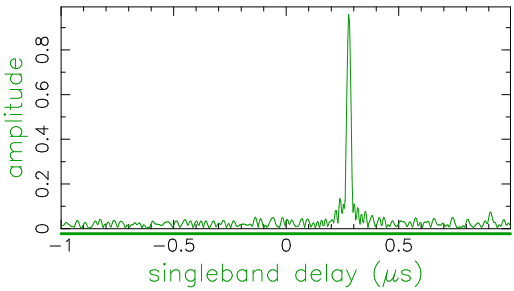
OJ287.3MP4LY, No1205, NY

NOEMA - YEBES40M, fgroup W, pol RL

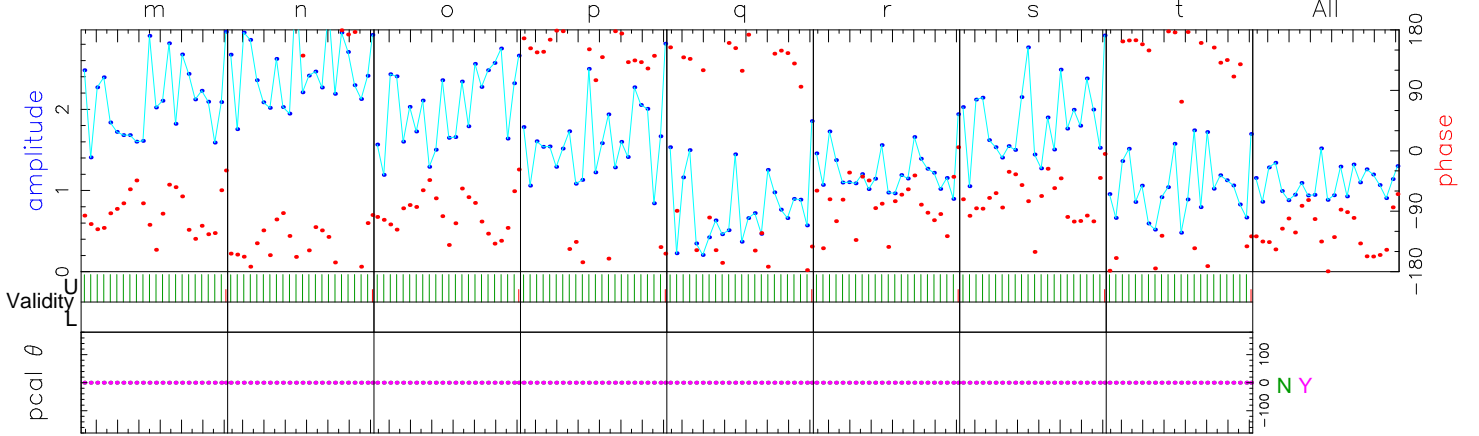
multiband delay (μ s)



Fringe quality 2
 Error code G
 SNR 52.9
 Int time 402.016
 Amp 0.993
 Phase -121.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.278435
 MBD 0.005866
 Fringe rate (Hz)
 0.255498
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201517.41
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193027
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.9	-147.2	-94.4	163.2	163.2	-76.6	-72.1	170.8	Phase	-121.9
	1.9	2.2	1.8	1.4	0.6	1.0	1.6	0.9	Ampl.	1.4
	329.2	327.8	327.3	327.0	325.9	326.8	327.9	326.9	Sbd box	328.3
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.25542602544E+03	Apriori delay (usec)	-1.25569751693E+03	Resid mbdelay (usec)	5.86649E-03	+/-	2.1E-05
Sband delay (usec)	-1.25541908168E+03	Apriori clock (usec)	9.7227974E+01	Resid sbdelay (usec)	2.78435E-01	+/-	1.6E-04
Phase delay (usec)	-1.25569752086E+03	Apriori clockrate (us/s)	-1.7547871E-06	Resid phdelay (usec)	-3.93148E-06	+/-	7.0E-08
Delay rate (us/s)	-1.31324849161E-01	Apriori rate (us/s)	-1.31327815235E-01	Resid rate (us/s)	2.96607E-06	+/-	3.0E-10
Total phase (deg)	-160.8	Apriori accel (us/s/s)	9.24194864730E-06	Resid phase (deg)	-121.9	+/-	2.2

ph/seg (deg)	29.4	RMS	29.4	Theor.	5.2	Amplitude	0.993 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	23.2		23.2		9.1	Search (2048X32)	0.946	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	61.3		61.3		3.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	67.4		67.4		5.3	Inc. seg. avg.	1.122	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	1.435	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

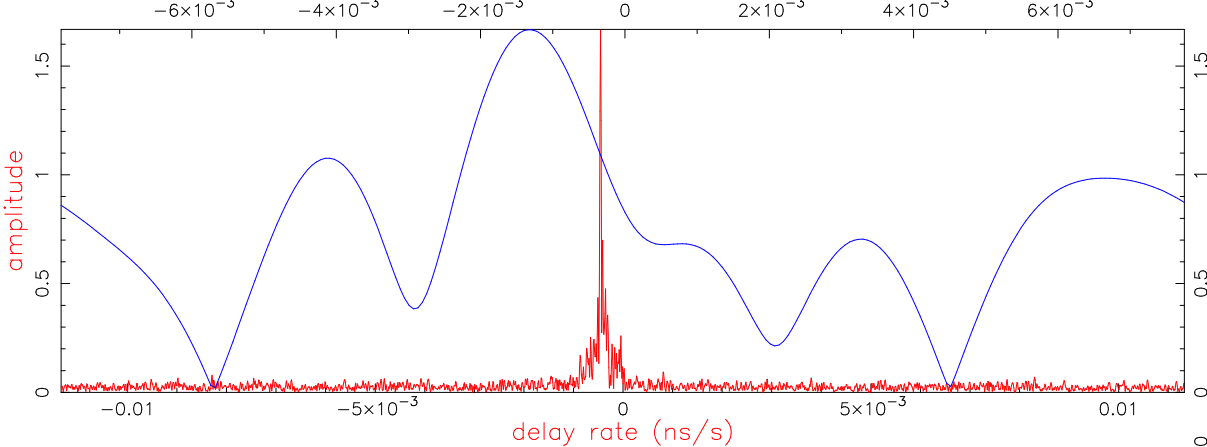
N: az 227.9 el 58.0 pa 34.5 Y: az 217.9 el 65.5 pa 30.3 u,v (fr/asec) 814.256 702.051 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/NY..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/NY.W.285.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

aux01

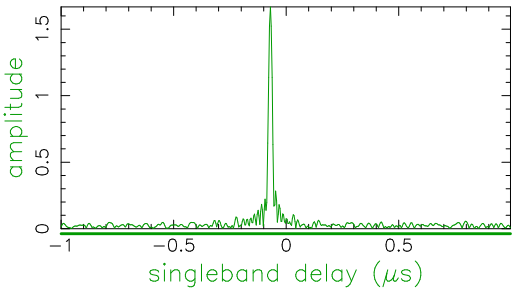
OJ287.3MP4LY, No1205, ZN
METSCHOV - NOEMA, fgroup W, pol LL

multiband delay (μ s)

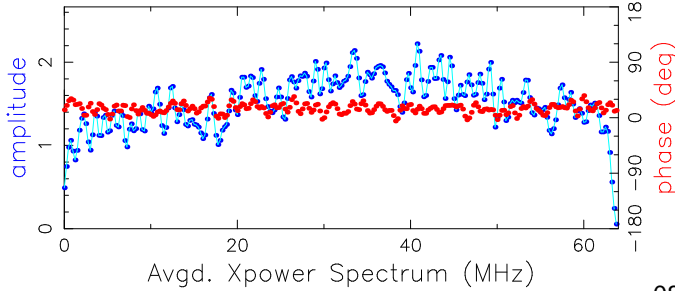


Fringe quality 3

SNR 92.2
Int time 408.715
Amp 1.668
Phase -59.5
PFD 0.0e+00
Delays (us)
SBD -0.070291
MBD -0.001322
Fringe rate (Hz)
-0.039454
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

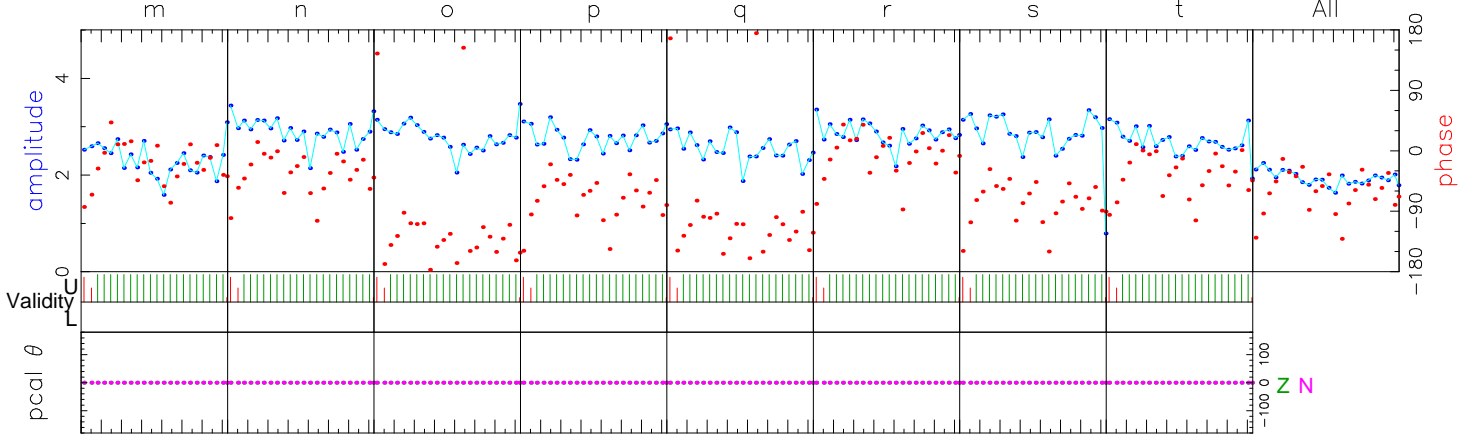


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 201500.00
Stop 202159.84
FRT 201830.00
Corr/FF/build
2024:365:162308
2025:041:192949
2024:113:095956
RA & Dec (J2000)
08h54m48.874931s
+20°06'30.640823"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.8	-32.6	-138.3	-69.7	-124.6	-4.9	-74.8	-34.5	Phase	-59.5
	2.0	2.5	2.4	2.3	2.2	2.4	2.5	2.3	Ampl.	2.3
	237.3	238.8	239.2	239.8	240.2	239.7	239.6	238.8	Sbd box	239.0
U/L	809/0	809/0	809/0	809/0	809/0	809/0	809/0	809/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-4.49365627193E+03	Apriori delay (usec)	-4.49359245035E+03	Resid mbdelay (usec)	-1.32158E-03	+/-	1.2E-05
Sband delay (usec)	-4.49366274110E+03	Apriori clock (usec)	1.3628788E+01	Resid sbdelay (usec)	-7.02908E-02	+/-	9.3E-05
Phase delay (usec)	-4.49359245227E+03	Apriori clockrate (us/s)	5.9556093E-07	Resid phdelay (usec)	-1.91953E-06	+/-	4.0E-08
Delay rate (us/s)	-5.38157857751E-02	Apriori rate (us/s)	-5.38153277578E-02	Resid rate (us/s)	-4.58017E-07	+/-	1.7E-10
Total phase (deg)	-301.8	Apriori accel (us/s/s)	3.03558407290E-05	Resid phase (deg)	-59.5	+/-	1.2

ph/seg (deg)	30.8	Theor.	3.0	Amplitude	1.668 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	17.8		5.2	Search (2048X32)	1.544	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	53.0		1.8	Inc. seg. avg.	1.932	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.2		3.1	Inc. frq. avg.	2.336	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

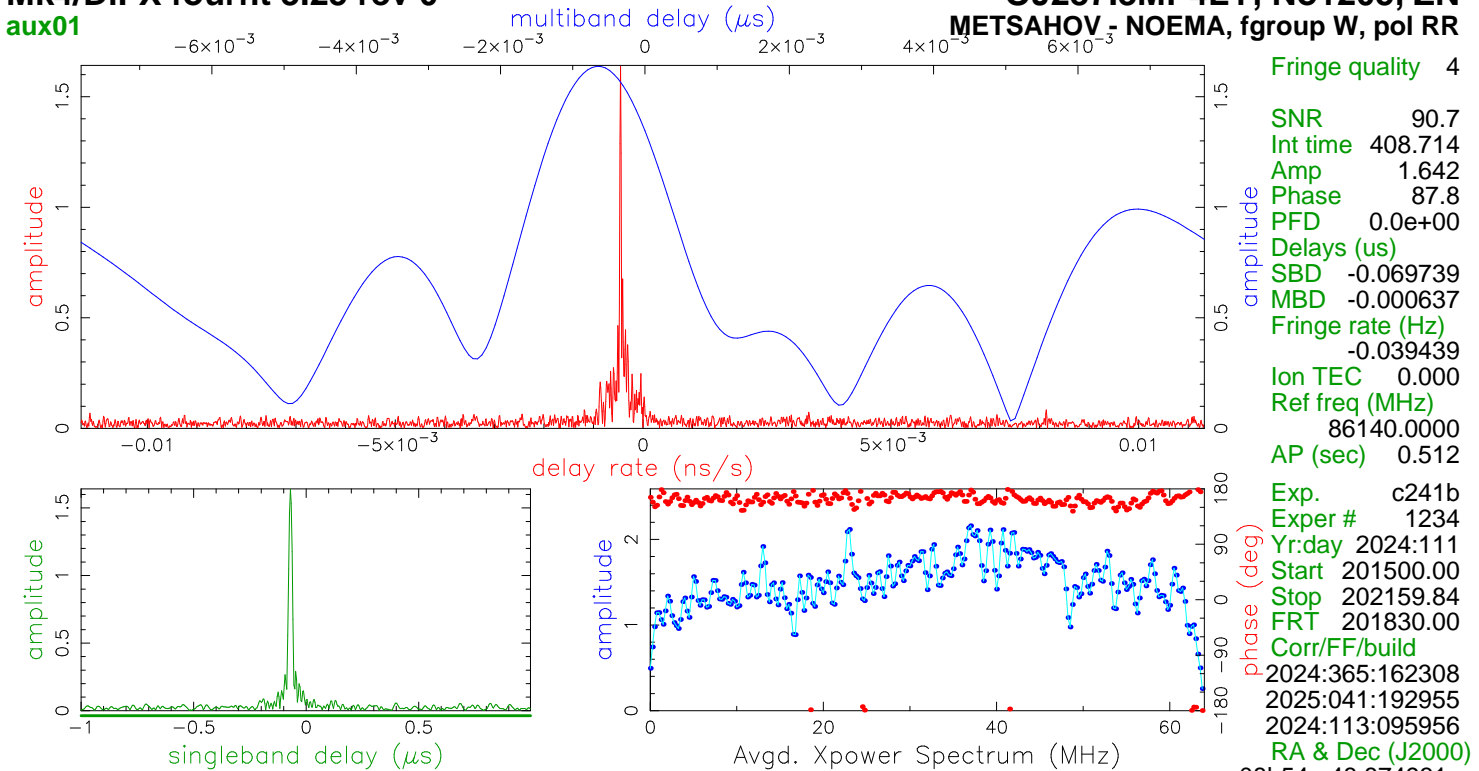
Z: az 236.6 el 39.6 pa 26.3 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) 373.671 2244.427 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205//ZN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205//ZN.W.146.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

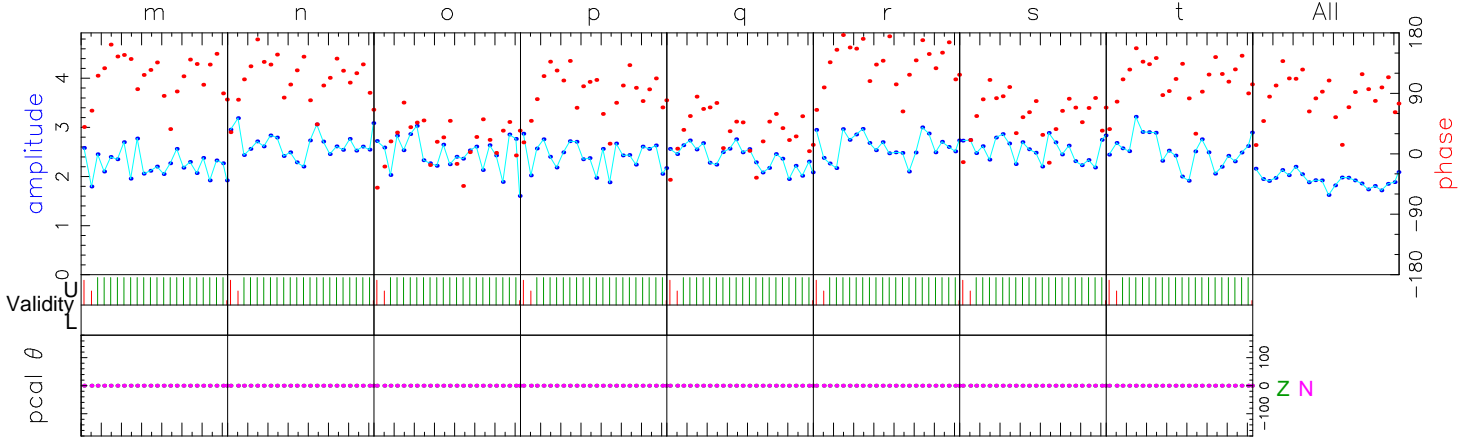
aux01

OJ287.3MP4LY, No1205, ZN

METSAHOV - NOEMA, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	116.1	112.2	19.8	93.6	35.5	138.1	58.7	112.6	Phase	87.8
	1.9	2.2	2.1	2.1	2.1	2.2	2.2	2.1	Ampl.	2.1
	237.8	239.0	239.7	239.9	240.1	239.8	239.7	238.8	Sbd box	239.1
U/L	809/0	809/0	809/0	809/0	809/0	809/0	809/0	809/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	-4.4936558693E+03	Apriori delay (usec)	-4.49359245035E+03	Resid mbdelay (usec)	-6.36582E-04	+/-	1.2E-05
Sband delay (usec)	-4.49366218910E+03	Apriori clock (usec)	1.3628788E+01	Resid sbdelay (usec)	-6.97388E-02	+/-	9.5E-05
Phase delay (usec)	-4.49359244752E+03	Apriori clockrate (us/s)	5.9556093E-07	Resid phdelay (usec)	2.83129E-06	+/-	4.1E-08
Delay rate (us/s)	-5.38157856001E-02	Apriori rate (us/s)	-5.38153277578E-02	Resid rate (us/s)	-4.57842E-07	+/-	1.7E-10
Total phase (deg)	-154.5	Apriori accel (us/s/s)	3.03558407290E-05	Resid phase (deg)	87.8	+/-	1.3

ph/seg (deg)	31.8	Theor.	3.0	Amplitude	1.642 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	19.1		5.3	Search (2048X32)	1.565	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	46.2		1.8	Inc. seg. avg.	1.921	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	29.7		3.1	Inc. frq. avg.	2.119	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

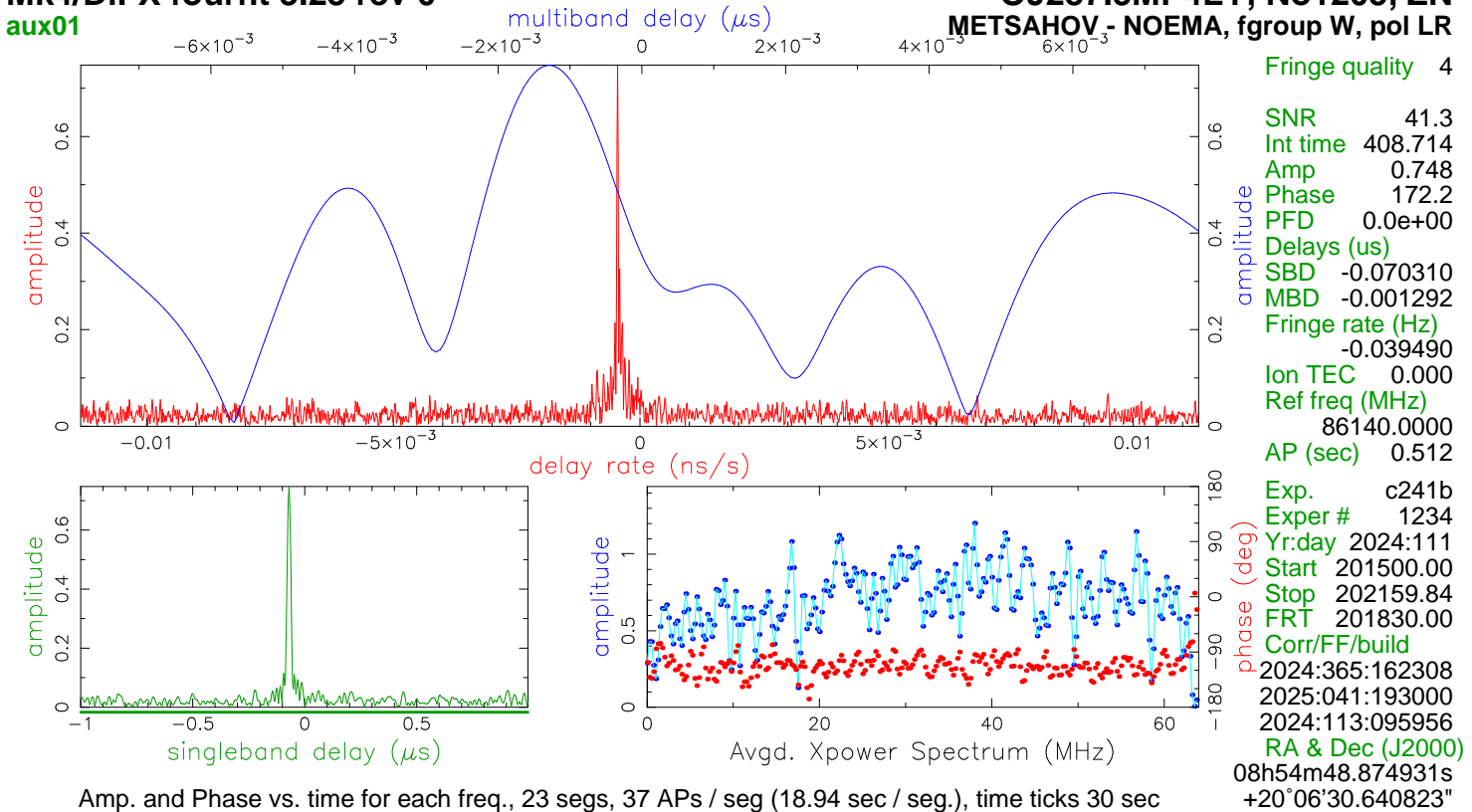
Z: az 236.6 el 39.6 pa 26.3 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) 373.671 2244.427 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205//ZN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205//ZN.W.169.3MP4LY

Mk4/DiFX fourfit 3.25 rev 0

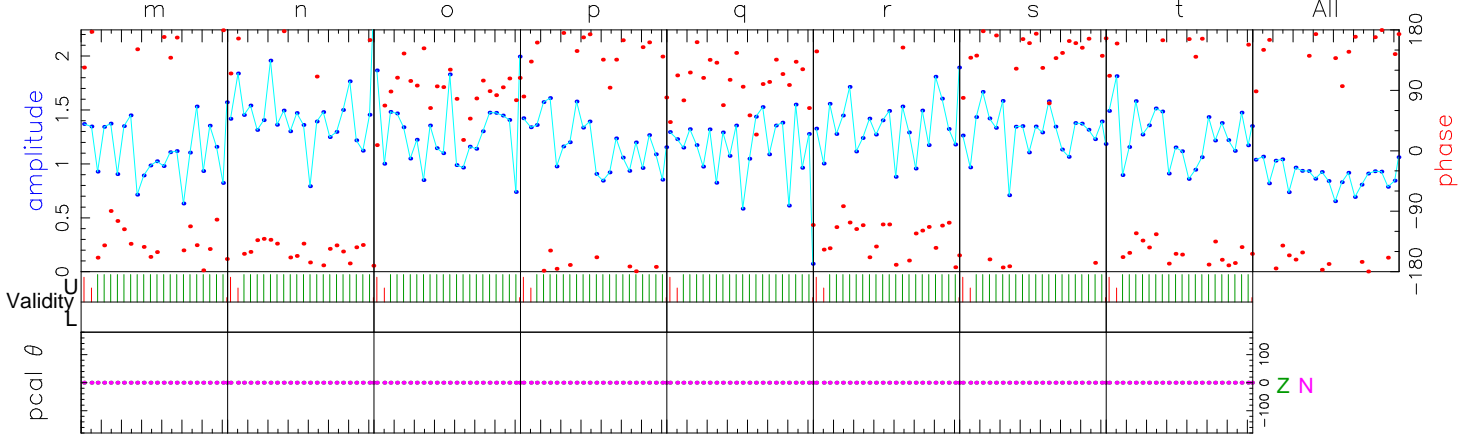
aux01

OJ287.3MP4LY, No1205, ZN

METSAHOV - NOEMA, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



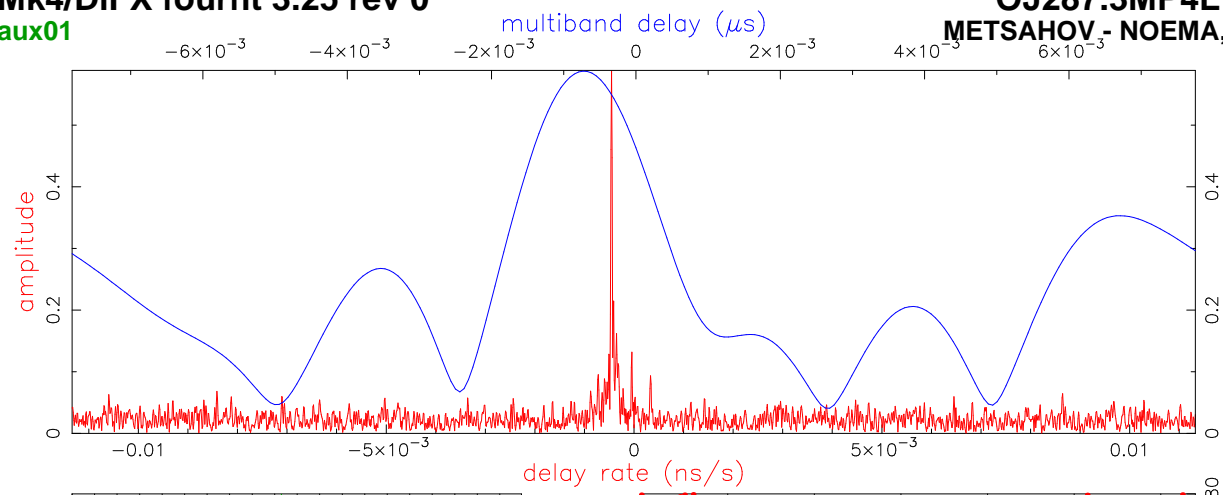
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-152.3	-159.5	89.3	164.2	103.2	-133.0	154.7	-165.2	Phase	172.2	
	0.9	1.2	1.1	1.0	1.0	1.1	1.1	1.1	Ampl.	1.1	
	237.3	238.7	239.3	239.9	240.1	239.5	239.4	238.6	Sbd box	239.0	
U/L	809/0	809/0	809/0	809/0	809/0	809/0	809/0	809/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
N	0	0	0	0	0	0	0	0	PC freqs		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
N	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-4.49365624237E+03		Apriori delay (usec)		-4.49359245035E+03		Resid mbdelay (usec)		-1.29202E-03	+/- 2.6E-05	
Sband delay (usec)	-4.49366276035E+03		Apriori clock (usec)		1.3628788E+01		Resid sbdelay (usec)		-7.03100E-02	+/- 2.1E-04	
Phase delay (usec)	-4.49359244479E+03		Apriori clockrate (us/s)		5.9556093E-07		Resid phdelay (usec)		5.55285E-06	+/- 8.9E-08	
Delay rate (us/s)	-5.38157861953E-02		Apriori rate (us/s)		-5.38153277578E-02		Resid rate (us/s)		-4.58437E-07	+/- 3.7E-10	
Total phase (deg)	-70.1		Apriori accel (us/s/s)		3.03558407290E-05		Resid phase (deg)		172.2	+/- 2.8	
	RMS	Theor.	Amplitude	0.748 +/- 0.018	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	32.9	6.6	Search (2048X32)	0.690	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
amp/seg (%)	23.1	11.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	54.1	3.9	Inc. seg. avg.	0.878	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011	
amp/frq (%)	43.9	6.8	Inc. frq. avg.	1.057	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
Z: az 236.6 el 39.6 pa 26.3	N: az 227.9 el 58.0 pa 34.5		u,v (fr/asec) 373.671 2244.427						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No1205//ZN..3MP4LY		Output file: /Exps/c241b/v2/3mm/1234/No1205//ZN.W.189.3MP4LY								

Mk4/DiFX fourfit 3.25 rev 0

aux01

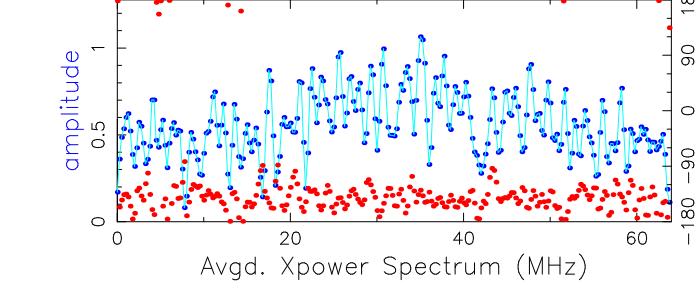
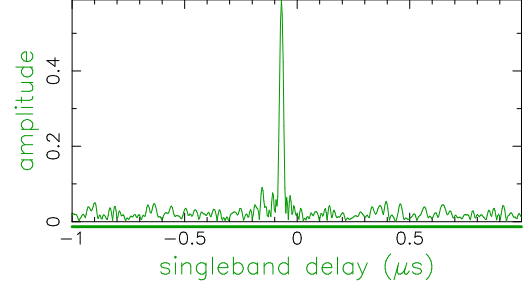
OJ287.3MP4LY, No1205, ZN

METSAHOV - NOEMA, fgroup W, pol RL

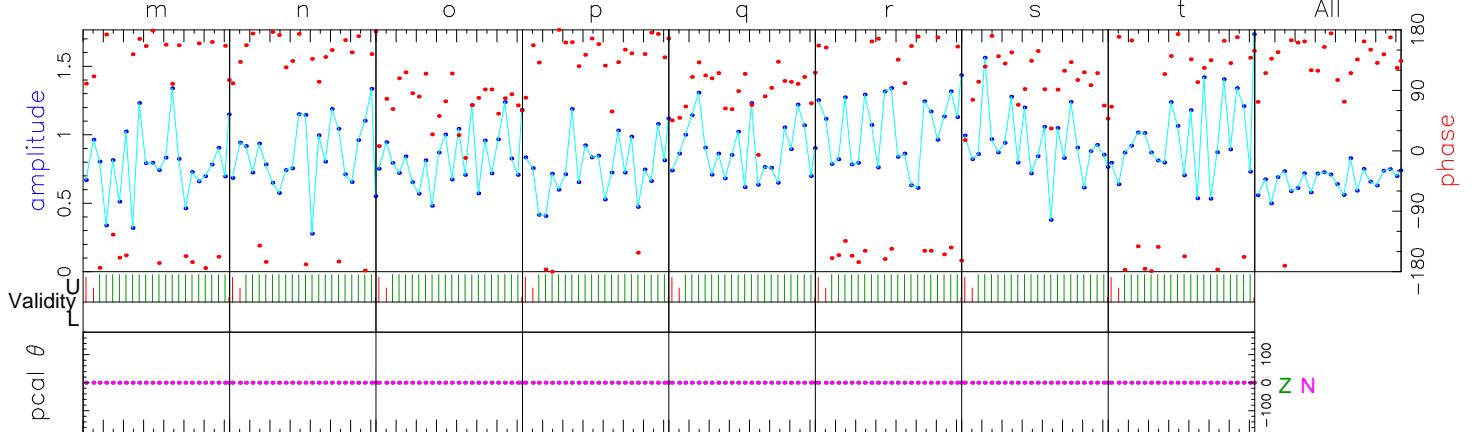


Fringe quality 5

SNR 32.5
 Int time 408.715
 Amp 0.589
 Phase 140.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.069847
 MBD -0.000713
 Fringe rate (Hz)
 -0.039436
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 201500.00
 Stop 202159.84
 FRT 201830.00
 Corr/FF/build
 2024:365:162308
 2025:041:193007
 2024:113:095956
 RA & Dec (J2000)
 08h54m48.874931s
 +20°06'30.640823"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	169.4	161.2	71.7	150.2	92.2	-171.5	110.7	161.5	Phase	140.5
	0.6	0.8	0.7	0.7	0.8	0.9	0.8	0.8	Ampl.	0.7
	238.0	238.8	239.5	240.0	240.1	239.7	239.6	238.9	Sbd box	239.1
U/L	809/0	809/0	809/0	809/0	809/0	809/0	809/0	809/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	-4.49365566346E+03	Apriori delay (usec)	-4.49359245035E+03	Resid mbdelay (usec)	-7.13113E-04	+/-	3.3E-05
Sband delay (usec)	-4.49366229710E+03	Apriori clock (usec)	1.3628788E+01	Resid sbdelay (usec)	-6.98467E-02	+/-	2.6E-04
Phase delay (usec)	-4.49359244582E+03	Apriori clockrate (us/s)	5.9556093E-07	Resid phdelay (usec)	4.52984E-06	+/-	1.1E-07
Delay rate (us/s)	-5.38157855732E-02	Apriori rate (us/s)	-5.38153277578E-02	Resid rate (us/s)	-4.57815E-07	+/-	4.7E-10
Total phase (deg)	-101.8	Apriori accel (us/s/s)	3.03558407290E-05	Resid phase (deg)	140.5	+/-	3.5

ph/seg (deg) 29.6 8.4 Search (2048X32) 0.557 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 19.0 14.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.8 5.0 Inc. seg. avg. 0.660 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.4 8.7 Inc. frq. avg. 0.748 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Z: az 236.6 el 39.6 pa 26.3 N: az 227.9 el 58.0 pa 34.5 u,v (fr/asec) 373.671 2244.427 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No1205/ZN..3MP4LY Output file: /Exps/c241b/v2/3mm/1234/No1205/ZN.W.212.3MP4LY