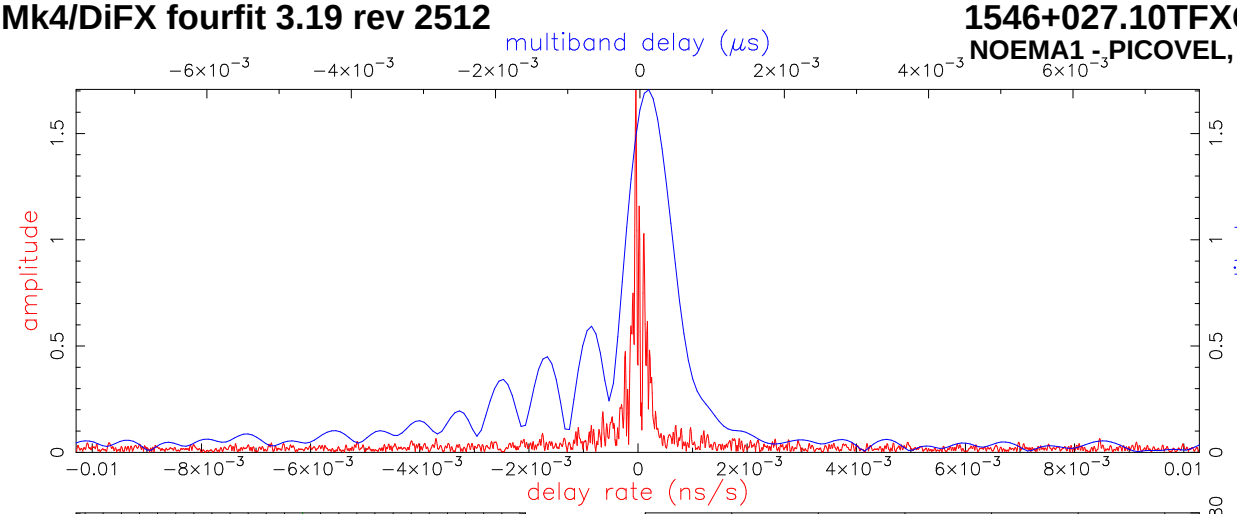
Mk4/DiFX fourfit 3.19 rev 2512

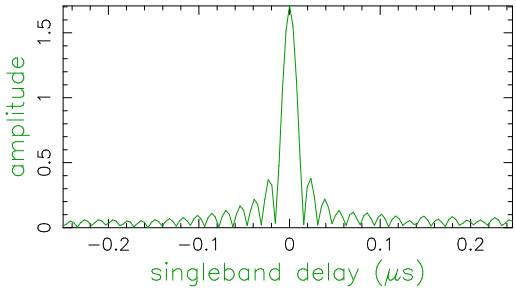
1546+027.10TFXQ, No0030, tP

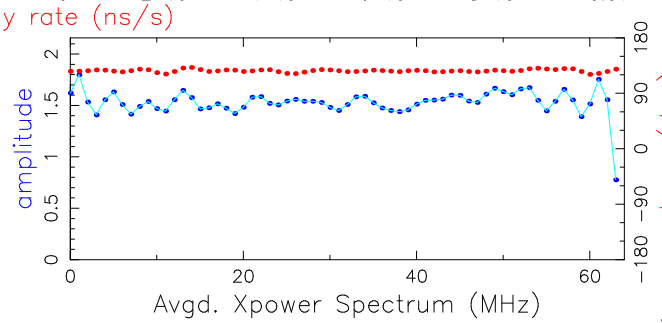
NOEMA1 - PICOVEL, fgroup W, pol LL



Fringe quality 2

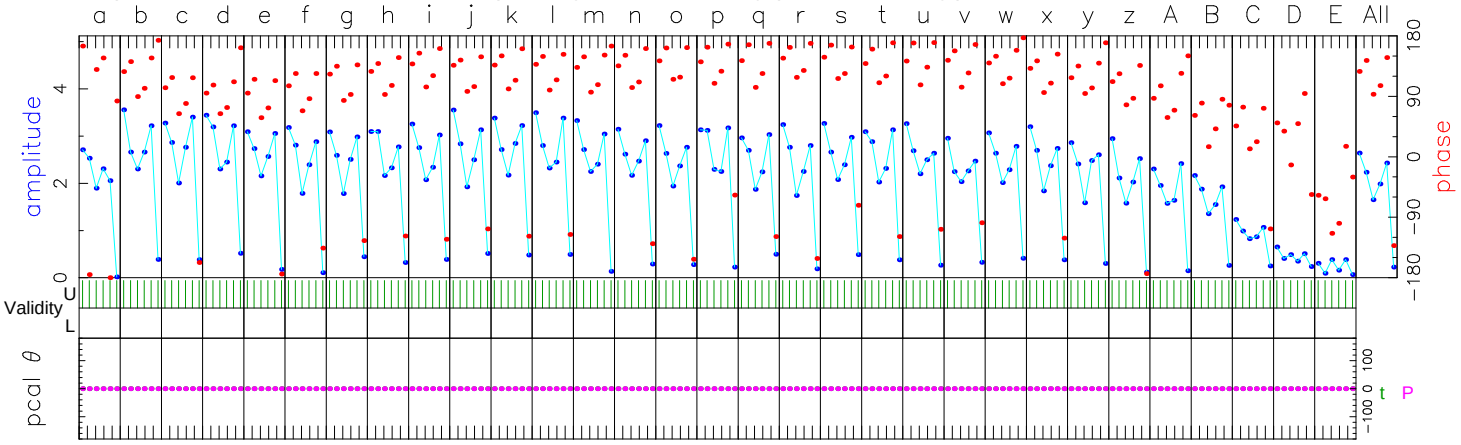
SNR	159.2
Int time	299.980
Amp	1.708
Phase	127.3
PFD	0.0e+00
Delays (us)	
SBD	0.000188
MBD	0.000108
Fringe rate (Hz)	-0.004322
Ion TEC	0.000
Ref freq (MHz)	97116.0000
AP (sec)	0.500





Exp.	tjan24
Exper #	16383
Yr:day	2020:024
Start	071500.00
Stop	072000.00
FRT	071730.00
Corr/FF/build	2020:042:124151
	2020:043:093113
	2019:065:170717
RA & Dec (J2000)	15h49m29.436846s
	+02°37'01.163319"

Amp. and Phase vs. time for each freq., 6 segs, 100 APs / seg (50.00 sec / seg.), time ticks 60 sec



97116.00	97180.00	97244.00	97308.00	97372.00	97436.00	97500.00	97564.00	97628.00	97692.00	97756.00	97820.00	97884.00	97948.00	98012.00	98076.00	98140.00	98204.00	98268.00	98332.00	98396.00	98460.00	98524.00	98588.00	98652.00	98716.00	98780.00	98844.00	98908.00	98972.00	99036.00	Freq (MHz)	All
162.7	124.9	101.2	94.7	94.1	105.7	119.4	126.3	140.1	131.7	136.8	135.5	130.2	135.8	143.6	145.2	147.7	148.8	147.4	144.9	147.2	142.4	138.2	131.1	120.7	110.9	93.0	61.1	46.1	38.6	-59.6	Phase	127.3
1.8	2.3	2.2	2.4	2.1	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	1.9	2.0	2.0	2.1	2.0	1.8	2.1	2.0	1.9	1.8	1.5	1.4	0.7	0.3	0.2	Ampl.	1.9
63.6	64.7	64.9	64.9	65.2	65.1	65.2	65.2	65.0	64.9	65.0	65.0	64.9	65.0	65.2	65.0	65.0	65.0	65.0	65.0	65.1	65.0	64.9	65.0	65.0	64.7	65.0	64.7	64.9	64.8	69.2	Sbd box	65.0
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
t	0	0	0	0	0	0	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	
P	0	0	0	0	0	0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t	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	
P	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		
t	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	Chan ids	
																																Tracks	
P	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)	-1.55163132266E+03	Apriori delay (usec)	-1.55163143103E+03	Resid mbdelay (usec)	1.08367E-04	+/-	1.7E-06
Sband delay (usec)	-1.55163124353E+03	Apriori clock (usec)	-1.7181767E+00	Resid sbdelay (usec)	1.87500E-04	+/-	5.4E-05
Phase delay (usec)	-1.55163142739E+03	Apriori clockrate (us/s)	-3.7999999E-08	Resid phdelay (usec)	3.64211E-06	+/-	2.1E-08
Delay rate (us/s)	-1.98630980988E-01	Apriori rate (us/s)	-1.98630936488E-01	Resid rate (us/s)	-4.44996E-08	+/-	1.2E-10
Total phase (deg)	107.2	Apriori accel (us/s/s)	8.74425184469E-06	Resid phase (deg)	127.3	+/-	0.7

	RMS	Theor.								
			Amplitude	1.708 +/- 0.011	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	45.5	0.9	Search (2048X128)	1.668	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-0.250	0.250
amp/seg (%)	47.5	1.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.008	0.008
ph/frq (deg)	44.8	2.0	Inc. seg. avg.	1.862	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.010	0.010
amp/frq (%)	32.0	3.5	Inc. frq. avg.	1.864	Data rate(Mb/s): 7936	nlags: 64 t_cohere infinite	ion window (TEC)	0.00	0.00

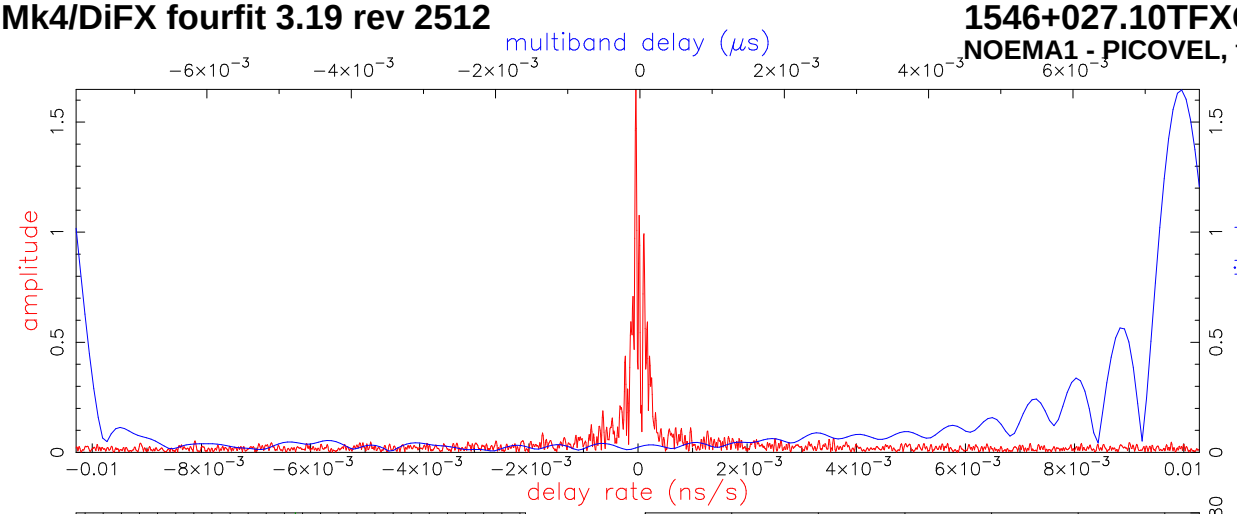
t: az 179.8 el 47.9 pa -0.1 P: az 163.7 el 54.4 pa -12.3 u,v (fr/asec) 1297.022 1028.288 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP..10TFXQ Output file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP.W.1.10TFXQ

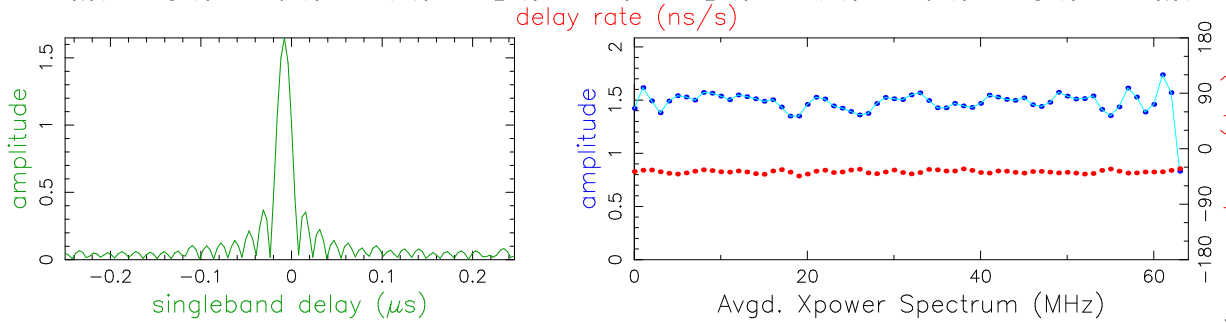
Mk4/DiFX fourfit 3.19 rev 2512

1546+027.10TFXQ, No0030, tP

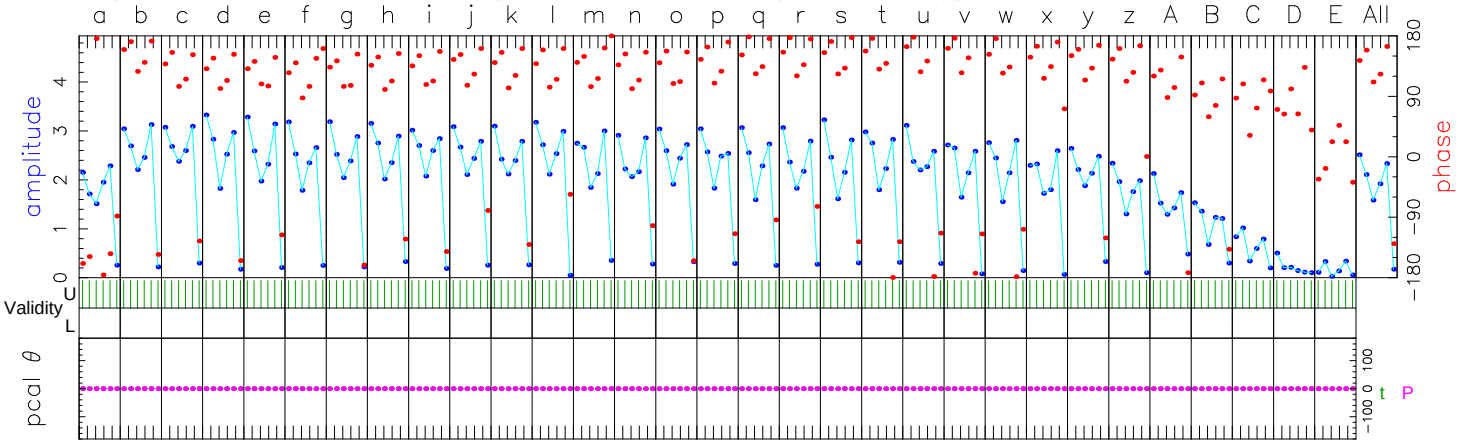
NOEMA1 - PICOVEL, fgroup W, pol RR



Fringe quality	2
SNR	153.7
Int time	299.978
Amp	1.649
Phase	143.6
PFD	0.0e+00
Delays (us)	
SBD	-0.008053
MBD	0.007492
Fringe rate (Hz)	-0.004297
Ion TEC	0.000
Ref freq (MHz)	97116.0000
AP (sec)	0.500
Exp.	tjan24
Exper #	16383
Yr:day	2020:024
Start	071500.00
Stop	072000.00
FRT	071730.00
Corr/FF/build	2020:042:124151 2020:043:093116 2019:065:170717
RA & Dec (J2000)	15h49m29.436846s +02°37'01.163319"



Amp. and Phase vs. time for each freq., 6 segs, 100 APs / seg (50.00 sec / seg.), time ticks 60 sec



	97116.00	97180.00	97244.00	97308.00	97372.00	97436.00	97500.00	97564.00	97628.00	97692.00	97756.00	97820.00	97884.00	97948.00	98012.00	98076.00	98140.00	98204.00	98268.00	98332.00	98396.00	98460.00	98524.00	98588.00	98652.00	98716.00	98780.00	98844.00	98908.00	98972.00	99036.00	Freq (MHz)	All
	-159.3	157.0	136.0	132.7	130.3	124.4	131.0	134.5	135.1	140.4	139.2	138.0	139.4	135.5	138.3	146.9	157.0	157.0	156.8	161.1	161.4	163.3	158.0	149.5	148.1	144.3	123.0	96.6	92.8	76.0	3.1	Phase	143.6
	1.6	2.2	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.0	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.8	1.8	1.7	1.8	1.5	1.3	0.9	0.6	0.2	0.1	Ampl.	1.7
	61.4	62.6	62.7	62.9	62.9	63.0	62.9	63.0	62.9	62.9	62.9	62.8	62.8	63.1	63.1	63.0	62.9	63.1	62.9	62.9	62.9	62.8	62.8	62.9	62.9	62.7	62.7	62.6	62.9	62.4	19.0	Sbd box	62.9
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
t	0	0	0	0	0	0	0	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	
P	0	0	0	0	0	0	0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t	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	
P	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		
t	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	Chan ids	
																																Tracks	
P	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	
																																Tracks	

Group delay (usec)(sbd)	-1.55163956405E+03	Apriori delay (usec)	-1.55163143103E+03	Resid mbdelay (usec)	7.49198E-03	+/-	1.8E-06
Sband delay (usec)	-1.55163948428E+03	Apriori clock (usec)	-1.7181767E+00	Resid sbdelay (usec)	-8.05325E-03	+/-	5.6E-05
Phase delay (usec)	-1.55163142692E+03	Apriori clockrate (us/s)	-3.7999999E-08	Resid phdelay (usec)	4.10768E-06	+/-	2.1E-08
Delay rate (us/s)	-1.98630980737E-01	Apriori rate (us/s)	-1.98630936488E-01	Resid rate (us/s)	-4.42486E-08	+/-	1.2E-10
Total phase (deg)	123.5	Apriori accel (us/s/s)	8.74425184469E-06	Resid phase (deg)	143.6	+/-	0.7

	RMS	Theor.							
			Amplitude	1.649 +/- 0.011	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	40.2	0.9	Search (2048X128)	1.592	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-0.250	0.250
amp/seg (%)	47.5	1.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.008	0.008
ph/frq (deg)	35.2	2.1	Inc. seg. avg.	1.774	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.010	0.010
amp/frq (%)	33.0	3.6	Inc. frq. avg.	1.732	Data rate(Mb/s): 7936	nlags: 64 t_cohere infinite	ion window (TEC)	0.00	0.00

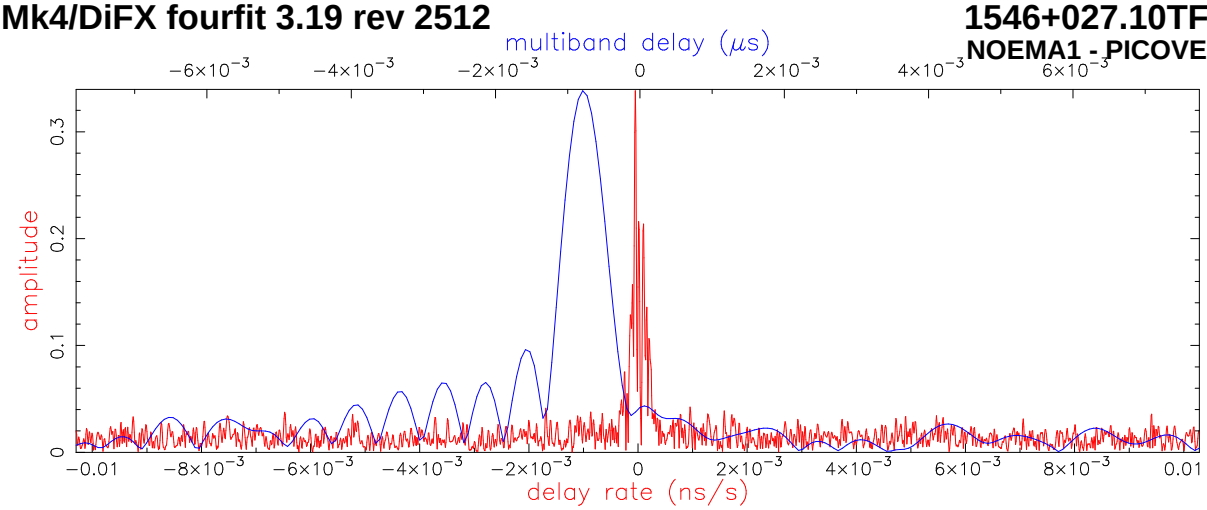
t: az 179.8 el 47.9 pa -0.1 P: az 163.7 el 54.4 pa -12.3 u,v (fr/asec) 1297.022 1028.288 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP..10TFXQ Output file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP.W.2.10TFXQ

Mk4/DiFX fourfit 3.19 rev 2512

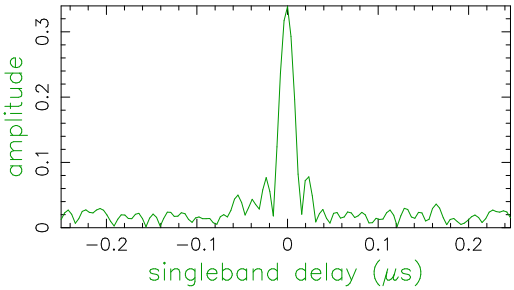
1546+027.10TFXQ, No0030, tP

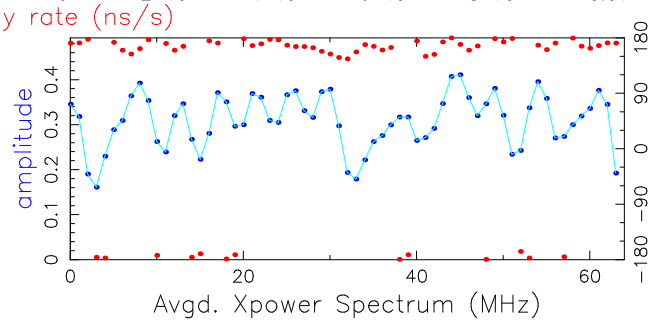
NOEMA1 - PICOVEL, fgroup W, pol LR



Fringe quality 4

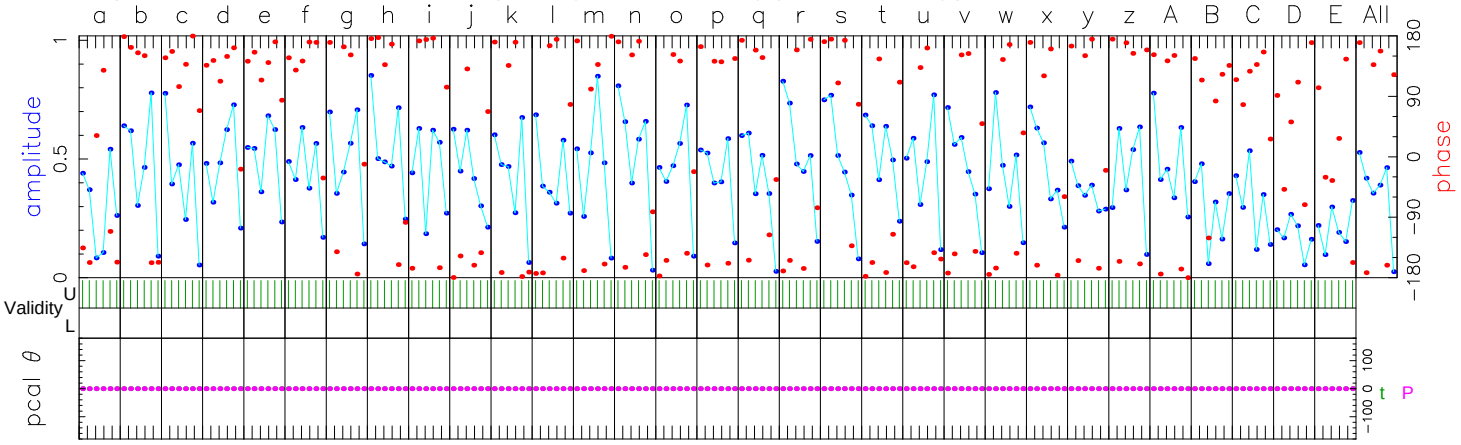
SNR 31.7
Int time 299.978
Amp 0.340
Phase 171.4
PFD 0.0e+00
Delays (us)
SBD -0.000718
MBD -0.000787
Fringe rate (Hz)
-0.004493
Ion TEC 0.000
Ref freq (MHz)
97116.0000
AP (sec) 0.500





Exp. tjan24
Exper # 16383
Yr:day 2020:024
Start 071500.00
Stop 072000.00
FRT 071730.00
Corr/FF/build
2020:042:124151
2020:043:093119
2019:065:170717
RA & Dec (J2000)
15h49m29.436846s
+02°37'01.163319"

Amp. and Phase vs. time for each freq., 6 segs, 100 APs / seg (50.00 sec / seg.), time ticks 60 sec



	97116.00	97180.00	97244.00	97308.00	97372.00	97436.00	97500.00	97564.00	97628.00	97692.00	97756.00	97820.00	97884.00	97948.00	98012.00	98076.00	98140.00	98204.00	98268.00	98332.00	98396.00	98460.00	98524.00	98588.00	98652.00	98716.00	98780.00	98844.00	98908.00	98972.00	99036.00	Freq (MHz)	All
	-139.3	175.2	146.0	141.5	142.9	152.1	175.4	179.3	176.5	176.9	171.2	-179.4	155.2	-176.4	-177.4	171.6	-176.4	-169.9	167.0	-172.1	-168.3	-178.1	-177.1	171.7	-180.0	-177.1	166.7	123.5	117.4	83.7	60.9	Phase	171.4
	0.2	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.3	0.3	0.1	0.0	Ampl.	0.4
	62.7	64.0	64.1	64.5	64.8	65.8	65.1	64.8	65.2	64.3	64.9	65.1	65.1	64.7	64.7	64.8	64.7	64.9	64.5	64.3	65.1	64.7	64.9	65.1	64.9	64.4	64.8	63.5	65.2	40.8	1.8	Sbd box	64.8
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
t	0	0	0	0	0	0	0	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	
P	0	0	0	0	0	0	0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t	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	
P	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		
t	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	Chan ids	
																																Tracks	
P	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	
																																Tracks	

Group delay (usec)(sbd)	-1.55163221774E+03	Apriori delay (usec)	-1.55163143103E+03	Resid mbdelay (usec)	-7.86709E-04	+/-	8.8E-06
Sband delay (usec)	-1.55163214953E+03	Apriori clock (usec)	-1.7181767E+00	Resid sbdelay (usec)	-7.18500E-04	+/-	2.7E-04
Phase delay (usec)	-1.55163142613E+03	Apriori clockrate (us/s)	-3.7999999E-08	Resid phdelay (usec)	4.90185E-06	+/-	1.0E-07
Delay rate (us/s)	-1.98630982754E-01	Apriori rate (us/s)	-1.98630936488E-01	Resid rate (us/s)	-4.62662E-08	+/-	6.0E-10
Total phase (deg)	151.2	Apriori accel (us/s/s)	8.74425184469E-06	Resid phase (deg)	171.4	+/-	3.6

	RMS	Theor.							
			Amplitude	0.340 +/- 0.011	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	28.4	4.4	Search (2048X128)	0.328	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-0.250	0.250
amp/seg (%)	47.9	7.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.008	0.008
ph/frq (deg)	33.6	10.1	Inc. seg. avg.	0.363	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.010	0.010
amp/frq (%)	31.5	17.6	Inc. frq. avg.	0.355	Data rate(Mb/s): 7936	nlags: 64 t_cohere infinite	ion window (TEC)	0.00	0.00

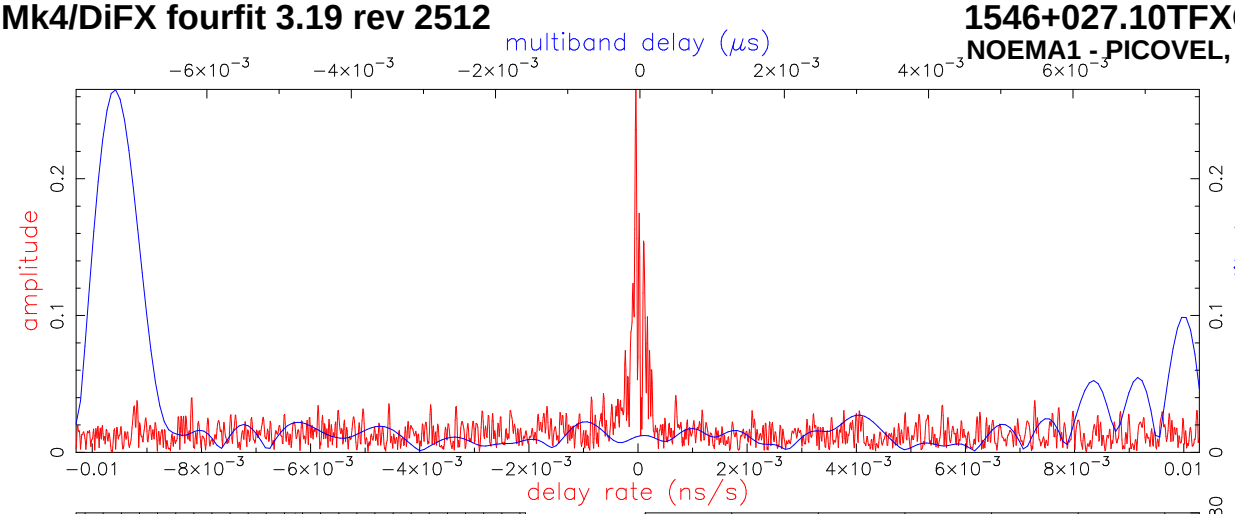
t: az 179.8 el 47.9 pa -0.1 P: az 163.7 el 54.4 pa -12.3 u,v (fr/asec) 1297.022 1028.288 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP..10TFXQ Output file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP.W.3.10TFXQ

Mk4/DiFX fourfit 3.19 rev 2512

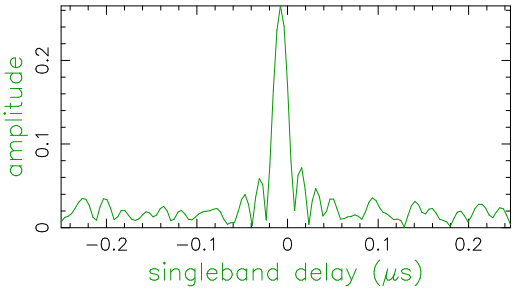
1546+027.10TFXQ, No0030, tP

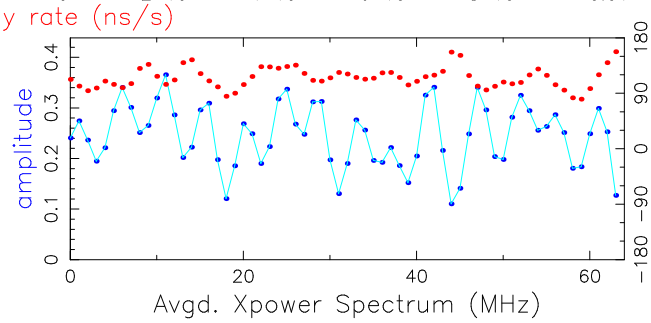
NOEMA1 - PICOVEL, fgroup W, pol RL



Fringe quality 5

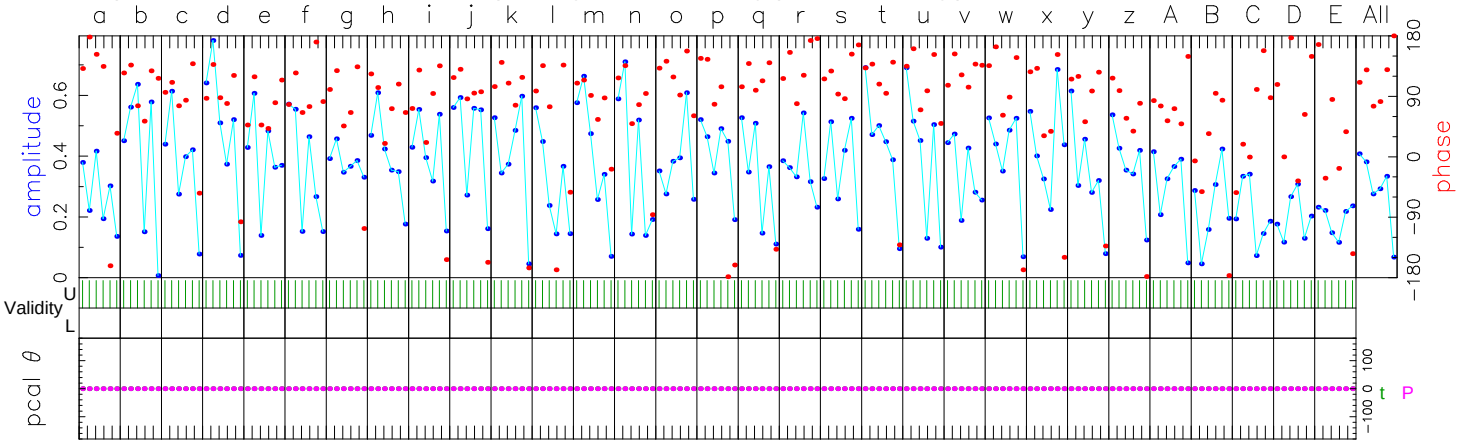
SNR 24.7
Int time 299.980
Amp 0.265
Phase 110.5
PFD 0.0e+00
Delays (us)
SBD -0.007624
MBD -0.007276
Fringe rate (Hz)
-0.004333
Ion TEC 0.000
Ref freq (MHz)
97116.0000
AP (sec) 0.500





Exp. tjan24
Exper # 16383
Yr:day 2020:024
Start 071500.00
Stop 072000.00
FRT 071730.00
Corr/FF/build
2020:042:124151
2020:043:093123
2019:065:170717
RA & Dec (J2000)
15h49m29.436846s
+02°37'01.163319"

Amp. and Phase vs. time for each freq., 6 segs, 100 APs / seg (50.00 sec / seg.), time ticks 60 sec



	97116.00	97180.00	97244.00	97308.00	97372.00	97436.00	97500.00	97564.00	97628.00	97692.00	97756.00	97820.00	97884.00	97948.00	98012.00	98076.00	98140.00	98204.00	98268.00	98332.00	98396.00	98460.00	98524.00	98588.00	98652.00	98716.00	98780.00	98844.00	98908.00	98972.00	99036.00	Freq (MHz)	All
	152.2	111.6	102.6	106.8	79.7	98.1	104.0	87.7	103.6	111.5	109.7	118.4	96.6	109.7	123.8	139.1	120.0	133.3	122.8	125.4	128.6	125.8	126.0	134.3	104.1	86.7	68.0	70.1	22.5	107.1	32.7	Phase	110.5
	0.2	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.0	0.0	Ampl.	0.3
	62.1	62.5	62.7	63.1	63.0	63.1	63.2	63.2	64.0	63.6	63.3	62.9	63.3	63.5	62.6	62.5	64.0	62.6	62.1	62.9	62.4	63.3	63.8	62.3	62.7	62.8	62.7	68.7	35.2	87.9	52.3	Sbd box	63.0
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
t	0	0	0	0	0	0	0	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	
P	0	0	0	0	0	0	0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	
t	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	
P	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		
t	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	Chan ids	
																																Tracks	
P	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)	-1.55163870696E+03	Apriori delay (usec)	-1.55163143103E+03	Resid mbdelay (usec)	-7.27593E-03	+/-	1.1E-05
Sband delay (usec)	-1.55163905478E+03	Apriori clock (usec)	-1.7181767E+00	Resid sbdelay (usec)	-7.62375E-03	+/-	3.5E-04
Phase delay (usec)	-1.55163142787E+03	Apriori clockrate (us/s)	-3.7999999E-08	Resid phdelay (usec)	3.16007E-06	+/-	1.3E-07
Delay rate (us/s)	-1.98630981105E-01	Apriori rate (us/s)	-1.98630936488E-01	Resid rate (us/s)	-4.46167E-08	+/-	7.7E-10
Total phase (deg)	90.3	Apriori accel (us/s/s)	8.74425184469E-06	Resid phase (deg)	110.5	+/-	4.6

	RMS	Theor.	Amplitude	0.265 +/- 0.011
ph/seg (deg)	35.5	5.7	Search (2048X128)	0.256
amp/seg (%)	43.1	9.9	Interp.	0.000
ph/frq (deg)	29.4	12.9	Inc. seg. avg.	0.292
amp/frq (%)	36.3	22.5	Inc. frq. avg.	0.277

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 128
Data rate(Mb/s): 7936 nlags: 64 t_cohere infinite

sb window (us)	-0.250	0.250
mb window (us)	-0.008	0.008
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

t: az 179.8 el 47.9 pa -0.1 P: az 163.7 el 54.4 pa -12.3 u,v (fr/asec) 1297.022 1028.288 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP..10TFXQ Output file: /Exps/tjan24/FRINGE_32MHz/2003/No0030/tP.W.4.10TFXQ