

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1996 - L2 Version 4
Chandra X-Ray Center

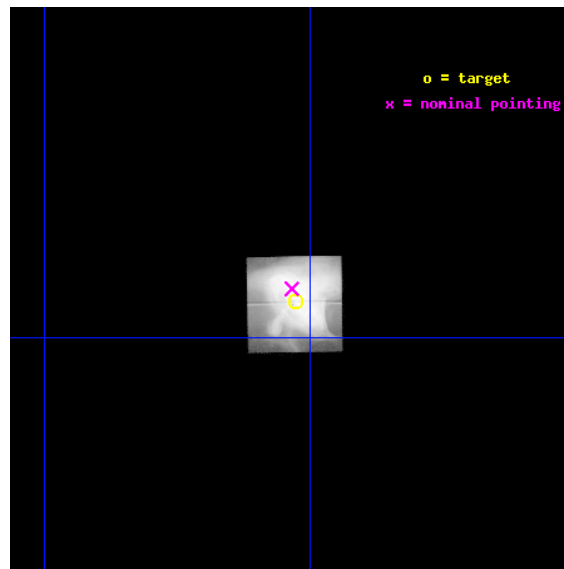
L2 Processing Date : Sep 4 2012

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1 Front

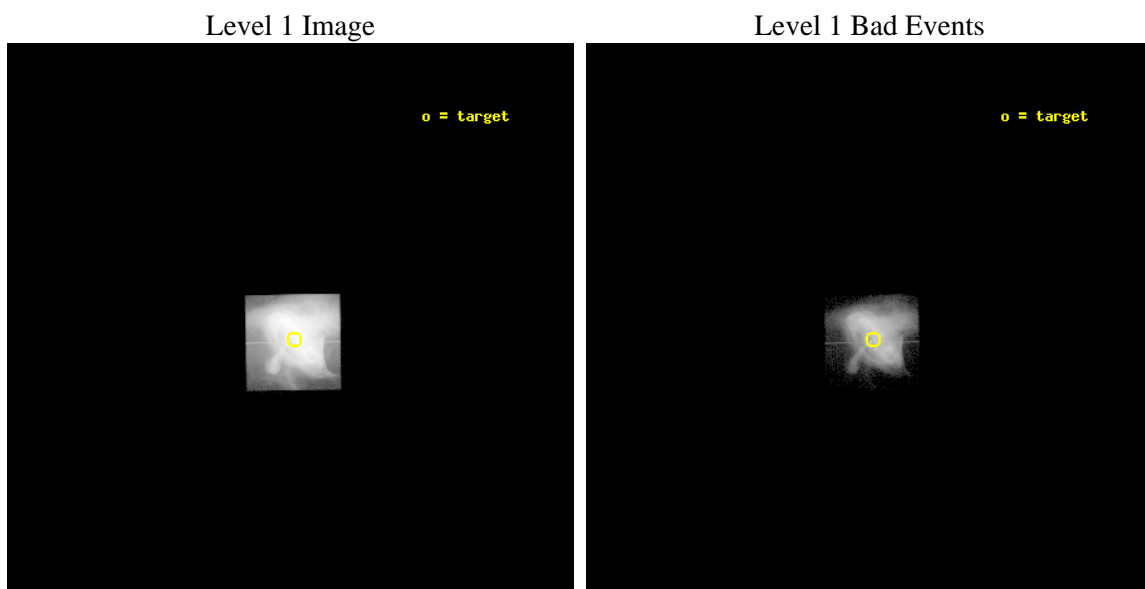
seq_num	500173	Sequence number
obs_id	1996	Observation id
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA	Proposal t
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.63366823404	Nominal RA [deg]
dec_nom	22.021168911792	Nominal Dec [deg]
roll_nom	89.052029717926	Nominal Roll [deg]
revision	4	Processing version of data
ontime	17429.376023218	Sum of GTIs [s]
livetime	3048.4793827995	Livetime [s]
ontime7	17429.376023218	Sum of GTIs [s]
l2events	10358230	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	28515.953000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	17429.376023218	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	17429.376023218	Sum of GTIs [s]
date	2012-09-03T23:50:20	Date and time of file creation	l1events	11716865	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	11716865
rejected events	1257069
rejected %	10%

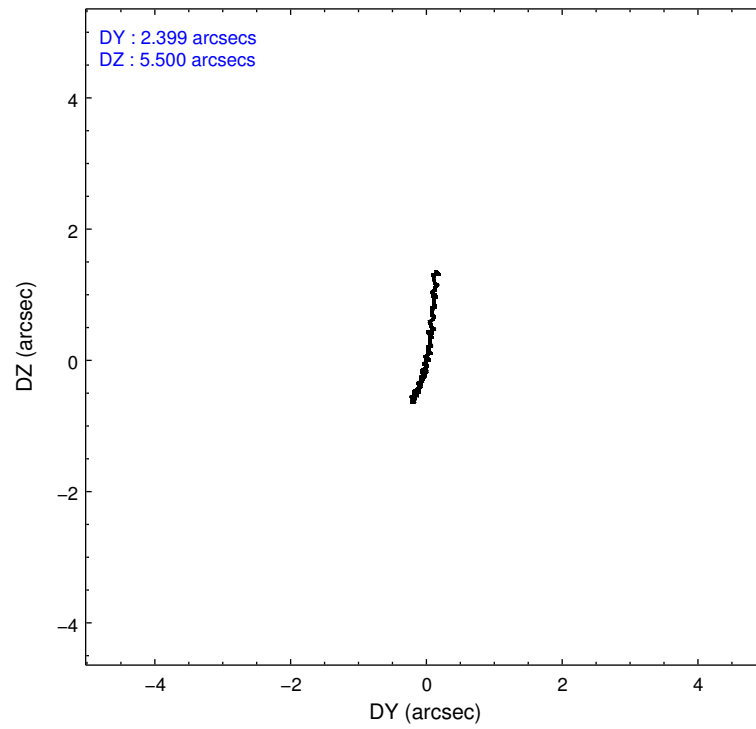
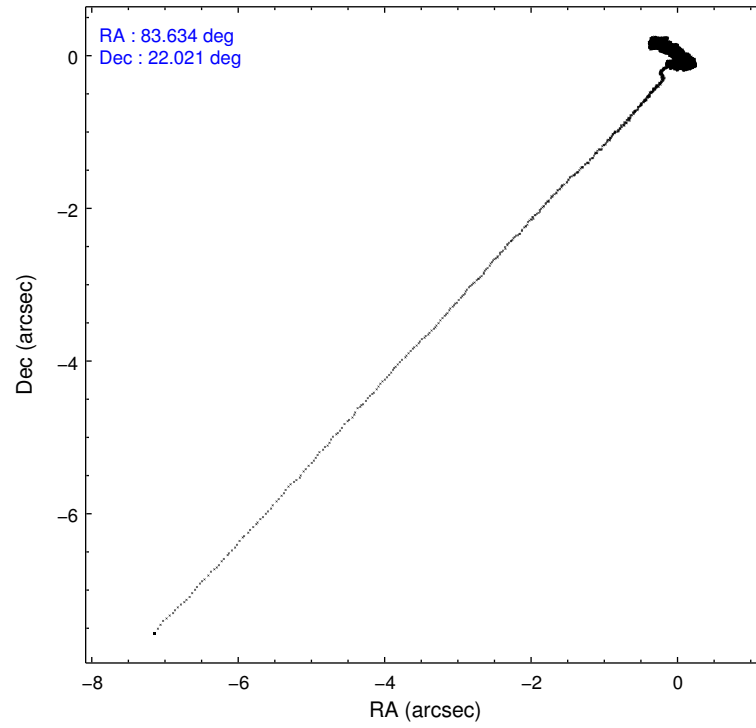
	ccd 7
grade 0 events	2335083
	19%
grade 1 events	154593
	1%
grade 2 events	2790781
	23%
grade 3 events	1228450
	10%
grade 4 events	1204700
	10%
grade 5 events	430738
	3%
grade 6 events	2973950
	25%
grade 7 events	598570
	5%

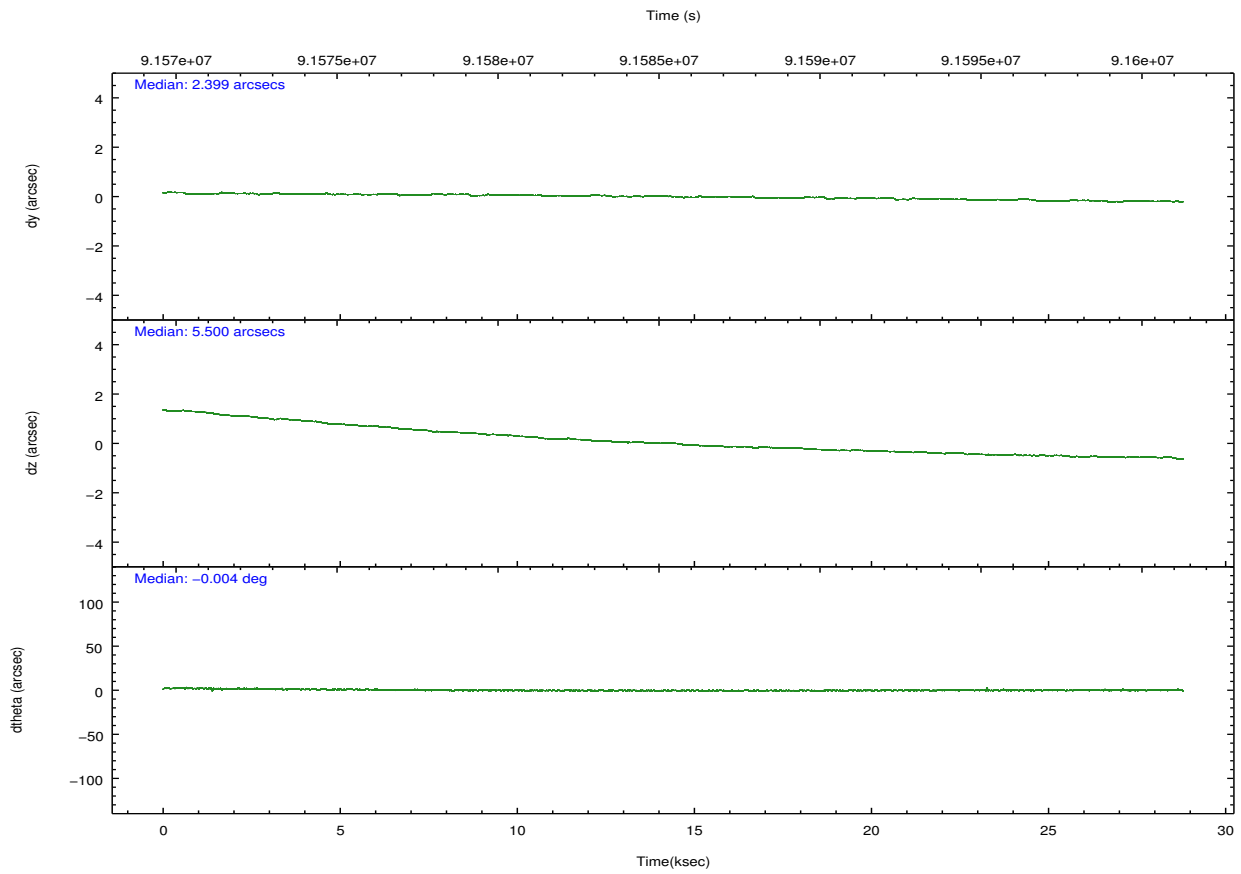
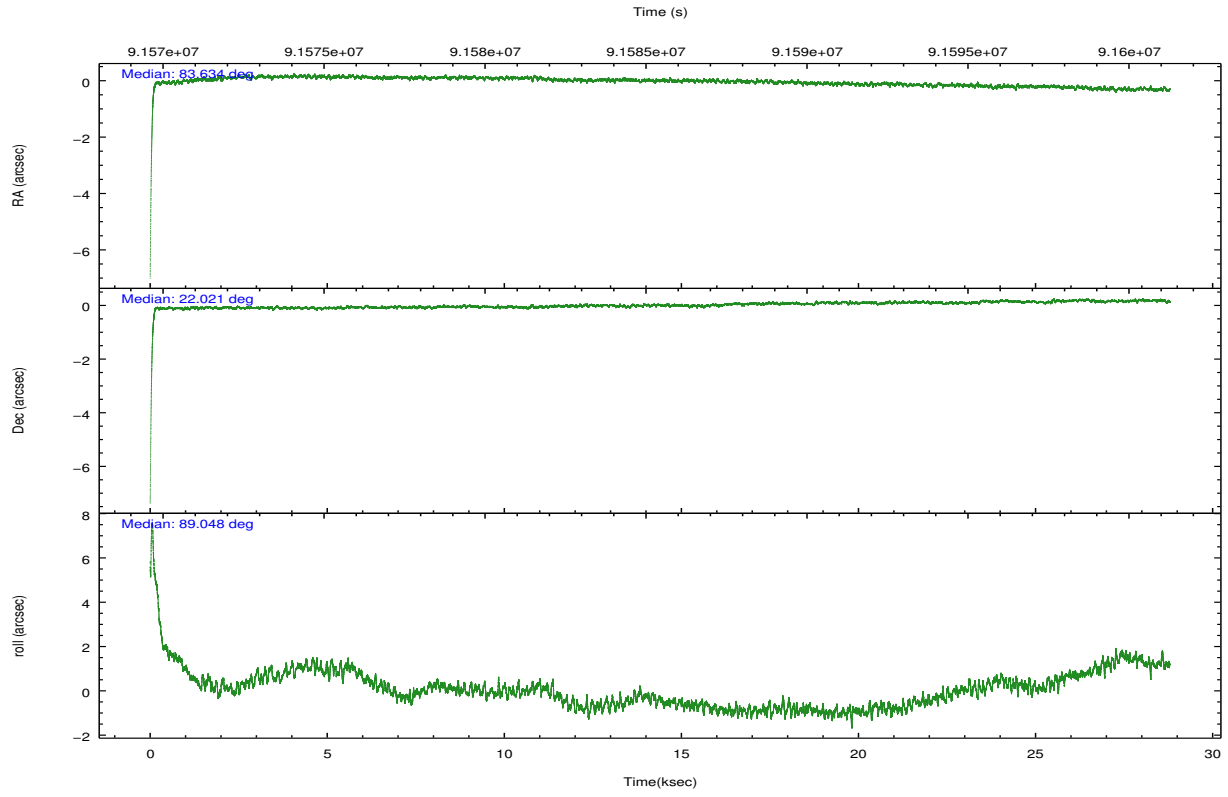
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	GRADED	GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	83.648189	83.63366823404006
[deg] Pointing Dec	21.997371	22.0211689117916
[deg] Pointing Roll	88.889963	89.0520297179264
[s] Window start time (MET)	91414864.184000	91414864.184000
[s] Window stop time (MET)	91623664.184000	91623664.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-182.132523	-182.1370004450064
[mm] SIM translation stage offset	-8	-7.995522138001405
[s] Observation start time (MET)	91571317.184000	91570305.156827
Observation start date	2000-11-25T20:27:33	2000-11-25T20:11:45
[s] Observation end time (MET)	91599833.184000	91600148.032967
Observation end date	2000-11-26T04:22:49	2000-11-26T04:29:08
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	CUSTOM
Subarray start row	29	29
Subarray row count	300	300
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.2

2.3 Aspect



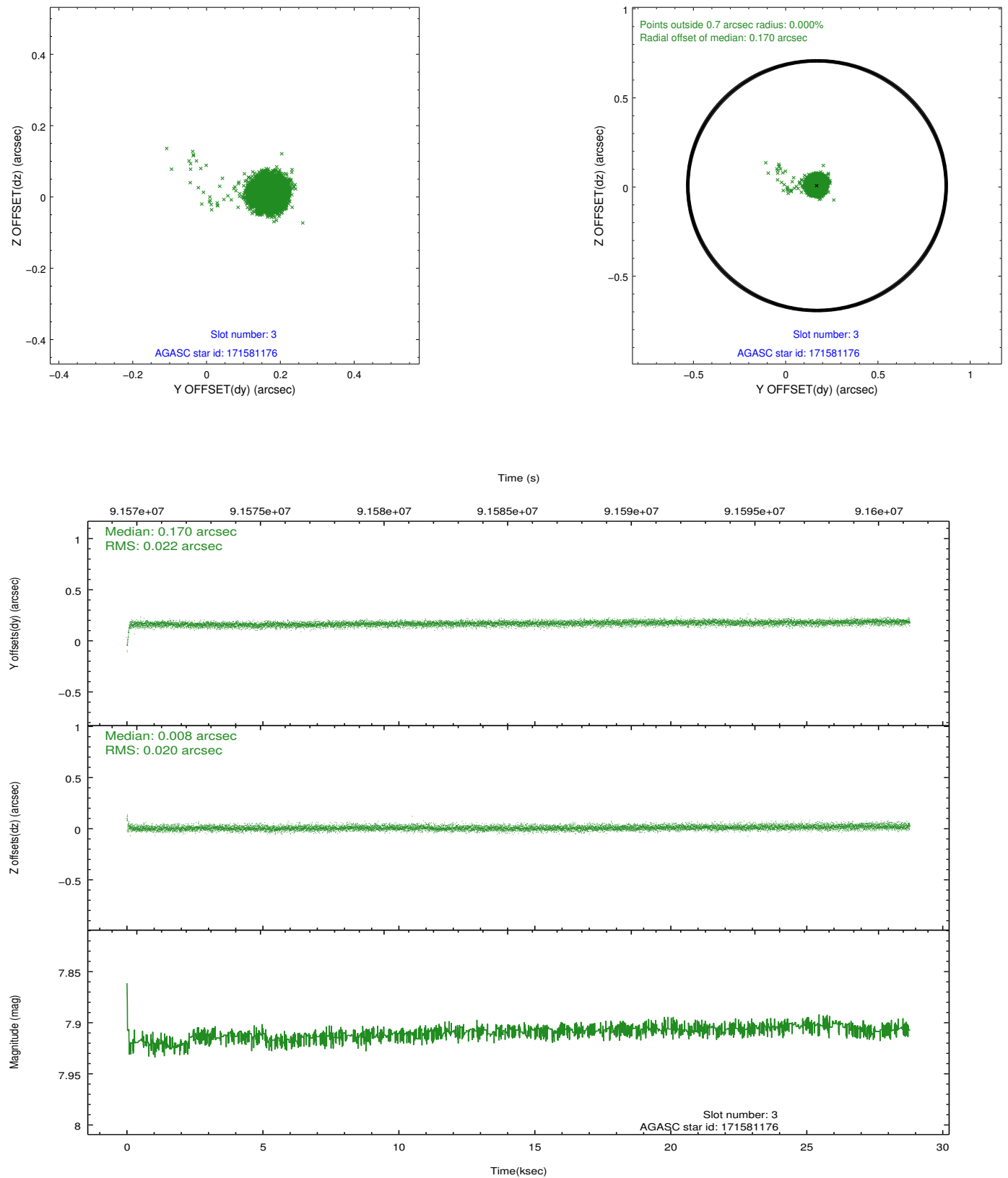


Slot Statistics

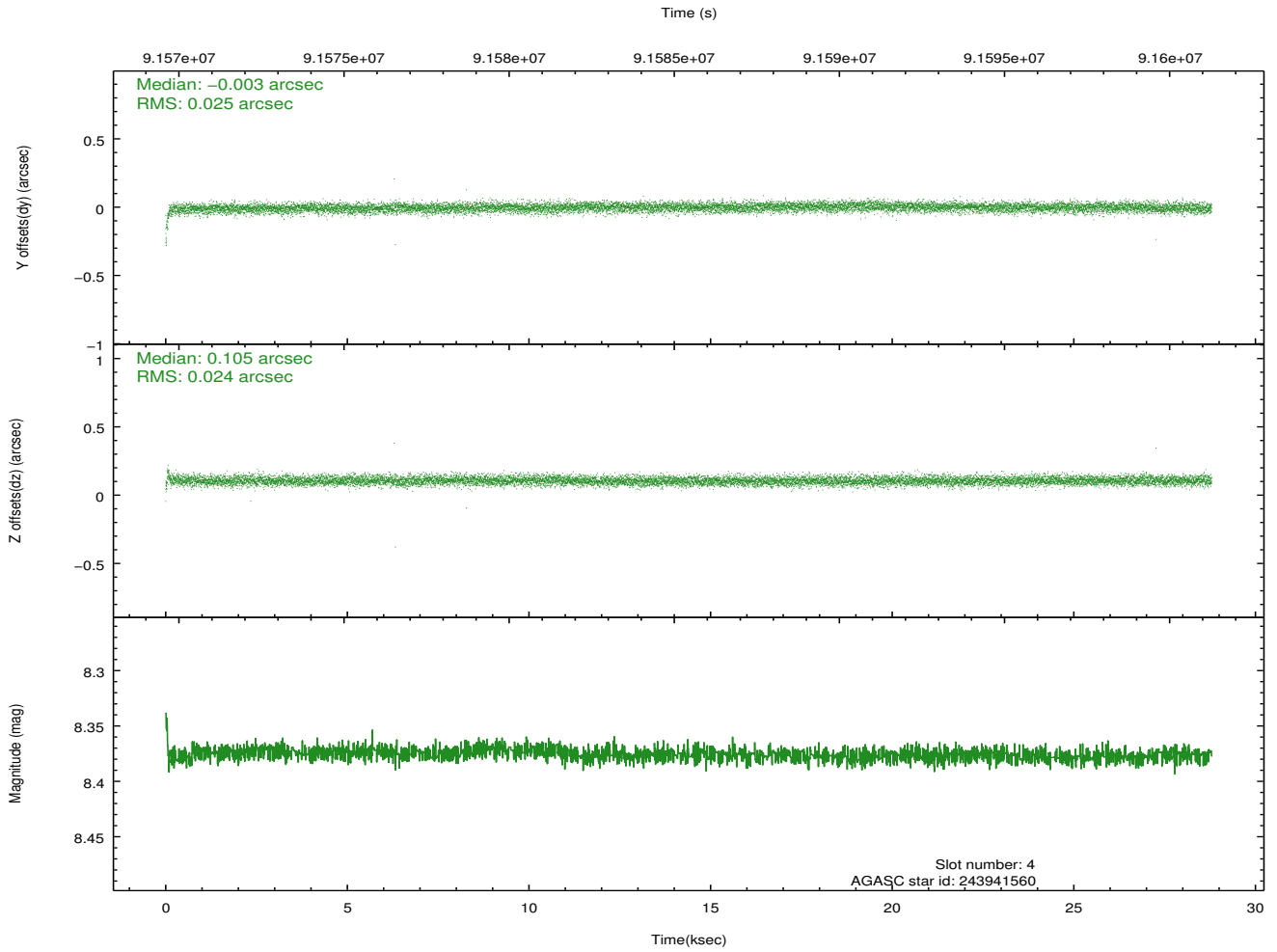
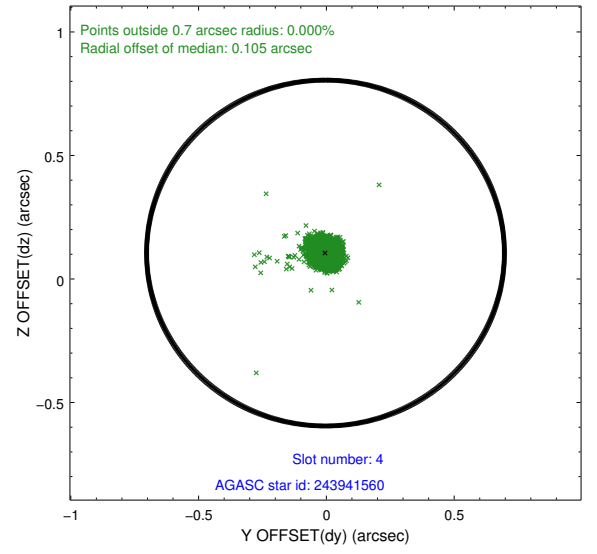
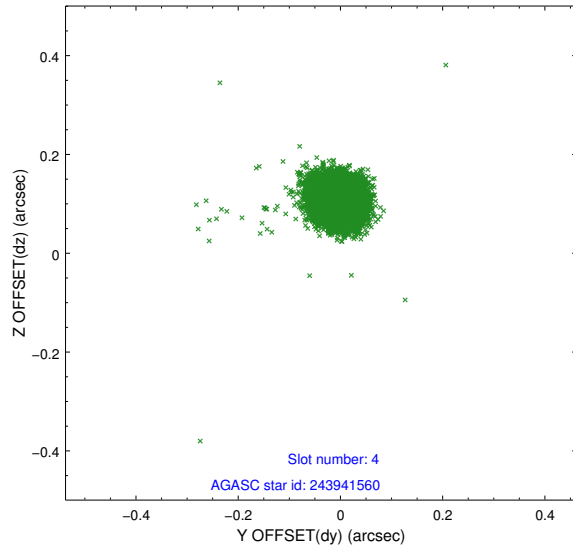
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7023	-0.056	-0.073	0.012	0.043	0.000000	0.000000	-754.50	-1891.54
1	FID	ACIS-S-4	7.18	7023	0.040	0.047	0.009	0.018	0.000000	0.000000	2158.84	16.94
2	FID	ACIS-S-5	7.23	7022	-0.016	0.033	0.011	0.039	0.000000	0.000000	-1807.19	10.71
3	GUIDE	171581176	7.91	14045	0.170	0.008	0.030	0.049	83.918863	21.403256	-2120.42	-948.66
4	GUIDE	243941560	8.38	14046	-0.003	0.105	0.035	0.058	83.733264	22.568598	2060.85	-242.78
5	GUIDE	171586976	8.52	14044	-0.221	0.108	0.038	0.063	83.857953	22.438065	1599.57	-666.98
6	GUIDE	171586792	9.02	14042	-0.105	-0.185	0.051	0.085	83.501733	22.424168	1526.36	516.91
7	GUIDE	171597832	9.17	14040	0.161	-0.039	0.057	0.095	83.183230	21.366702	-2298.28	1514.50

2.4 Star Slots

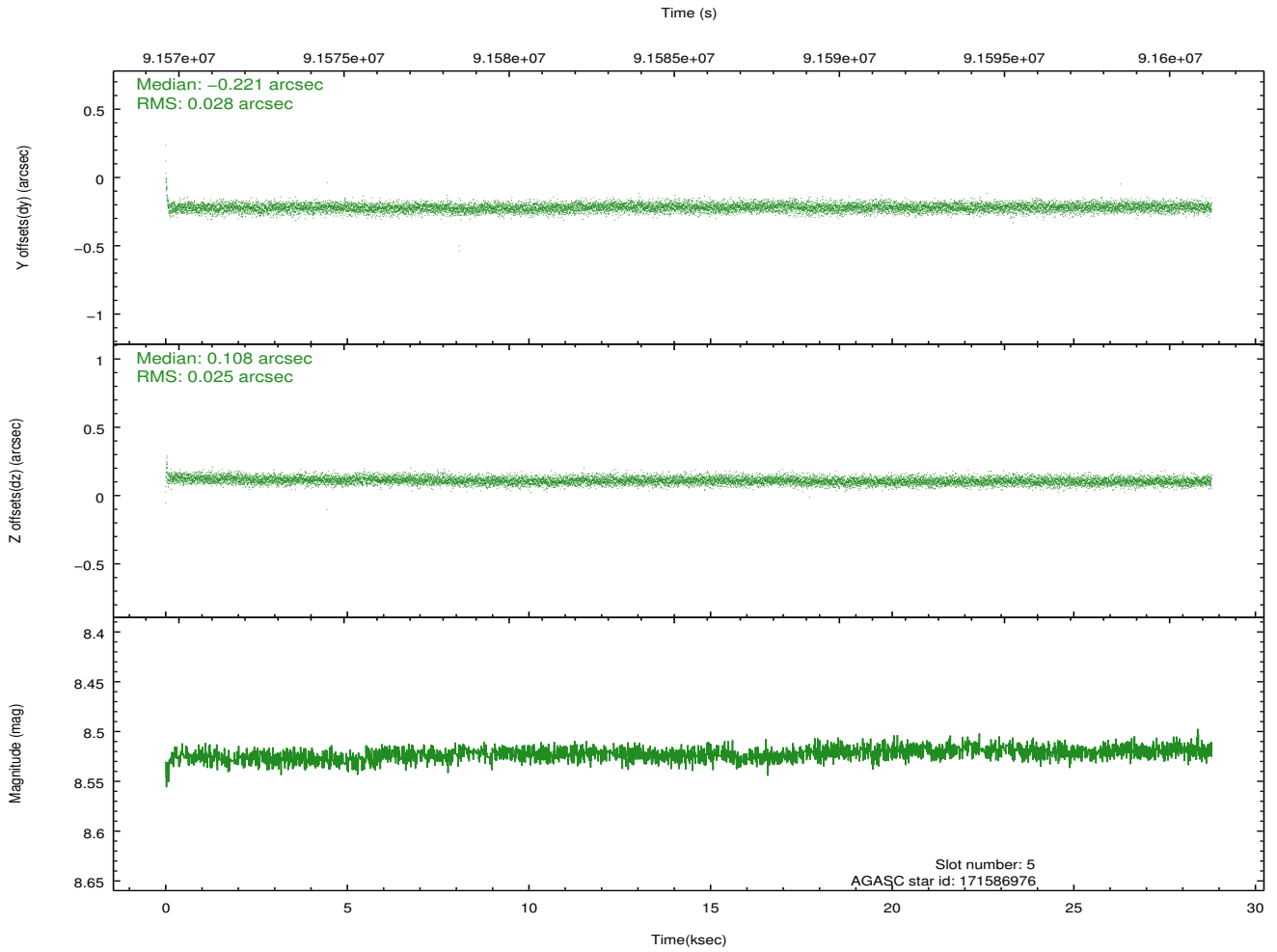
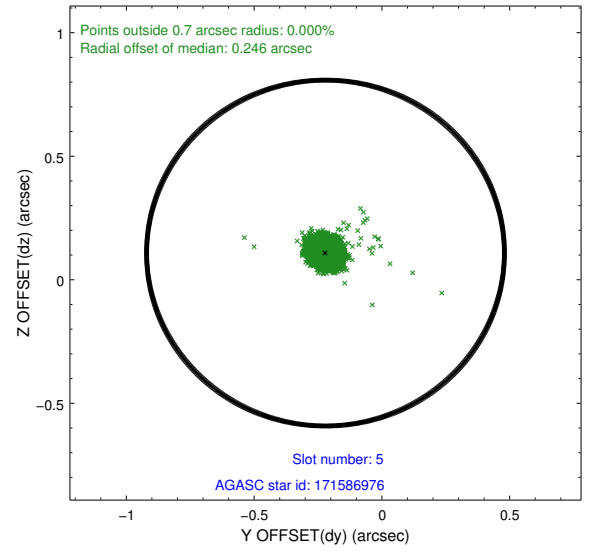
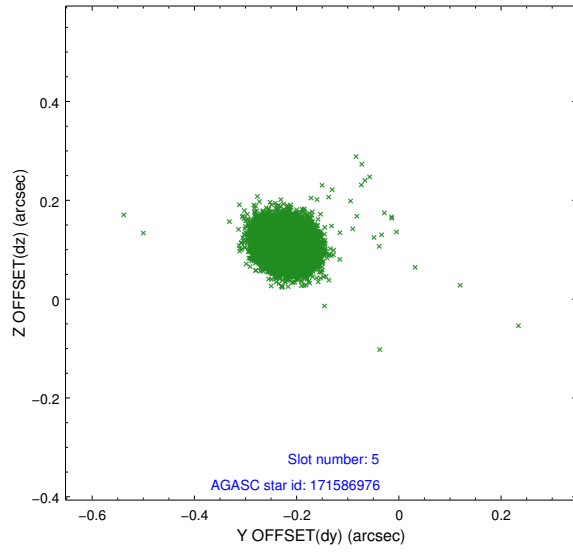
2.4.1 Slot 3



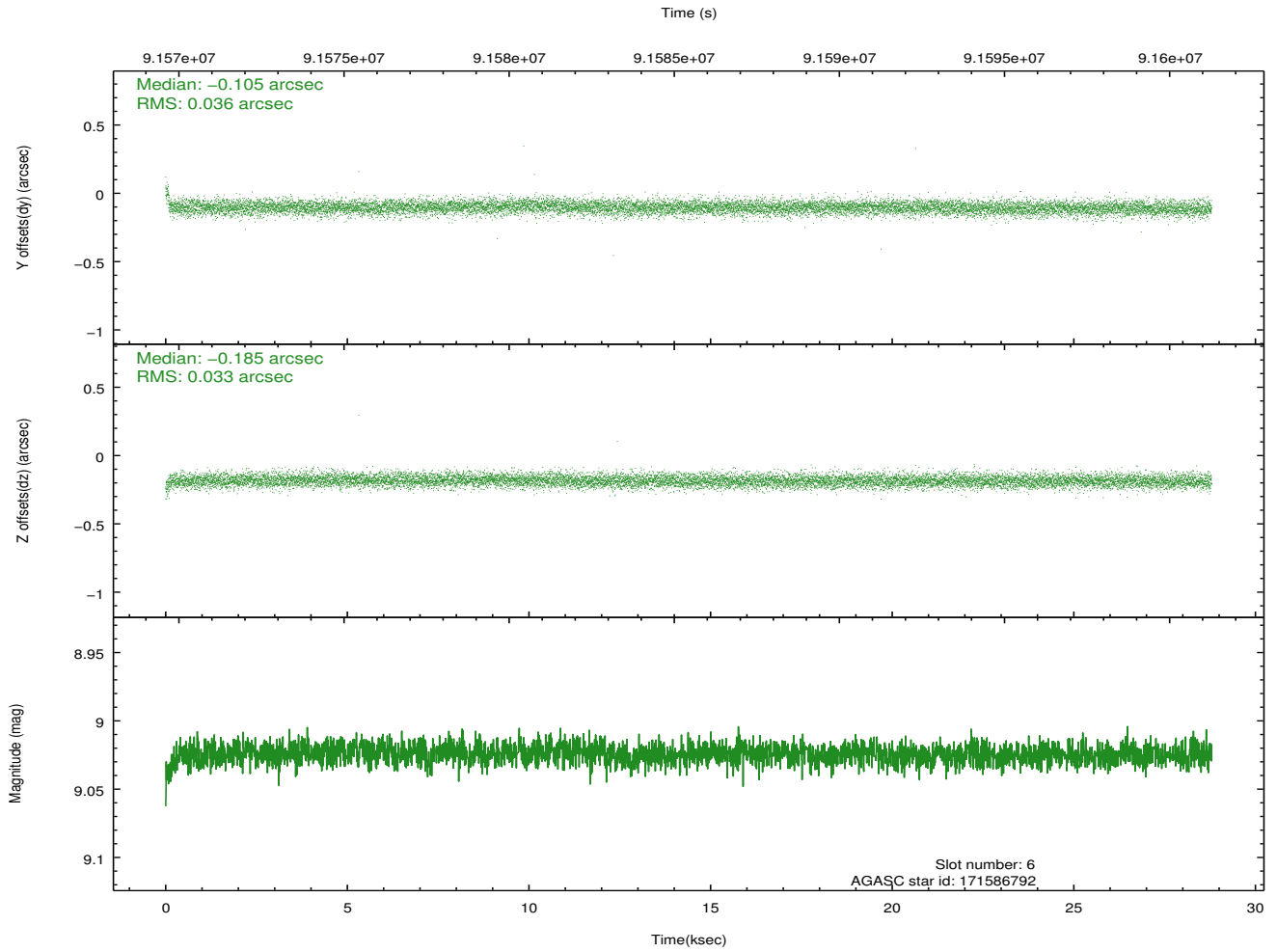
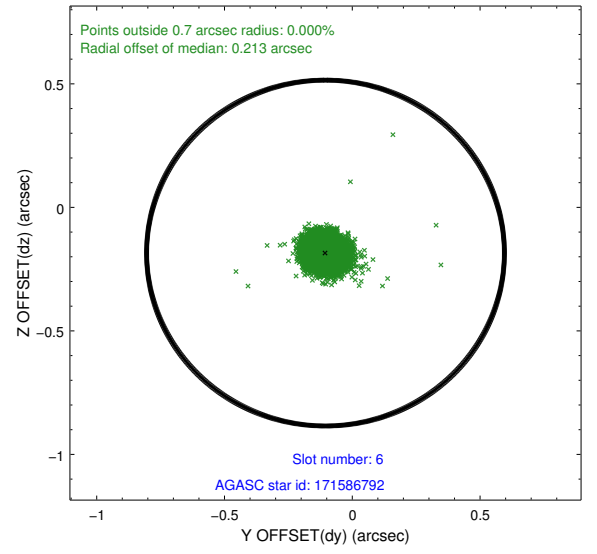
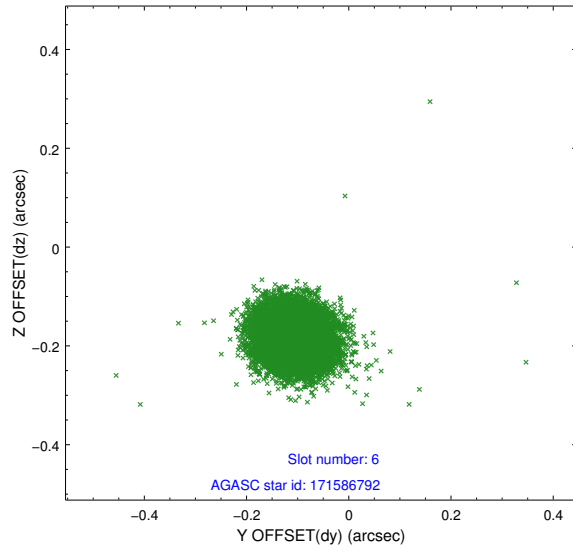
2.4.2 Slot 4



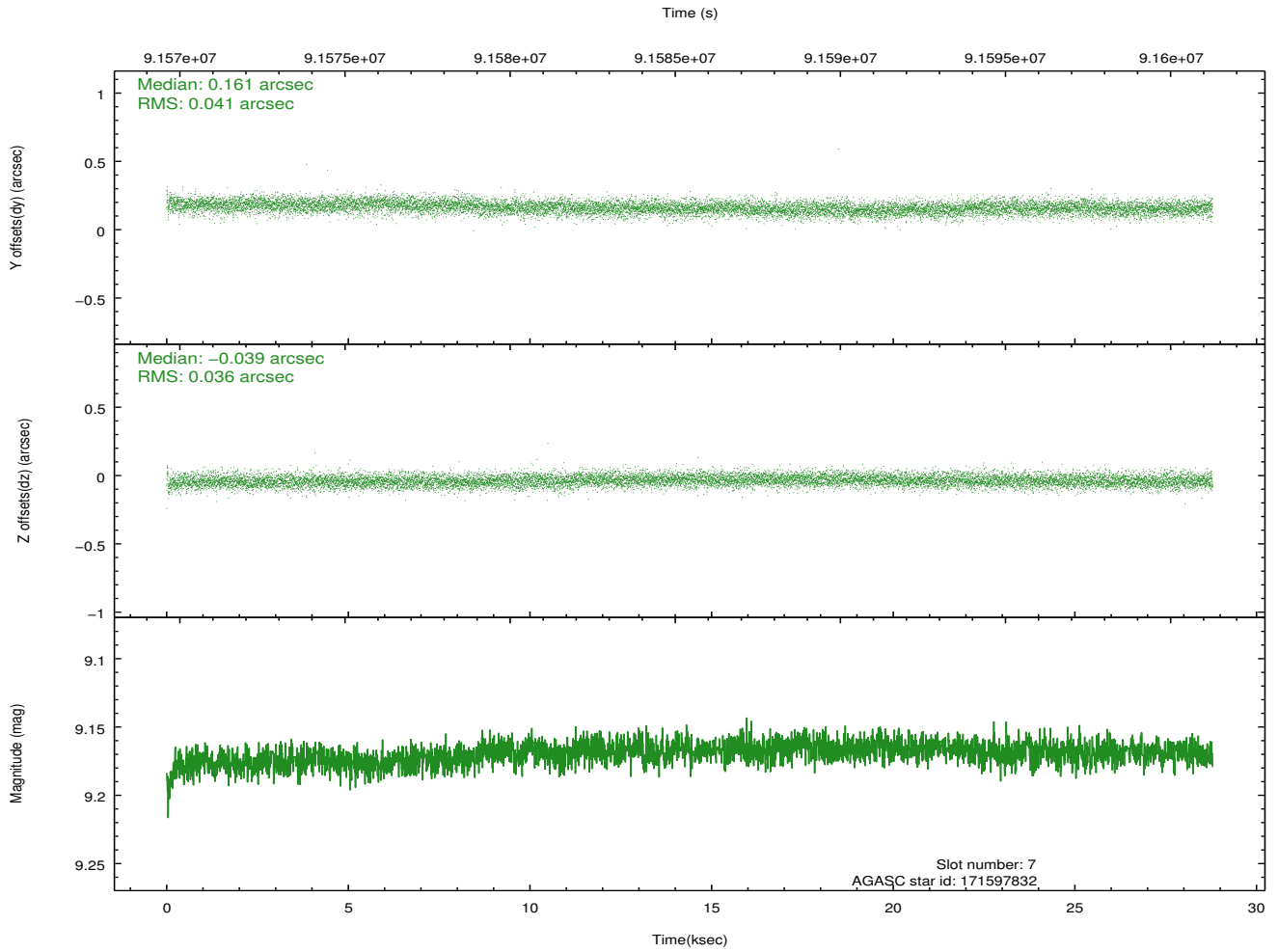
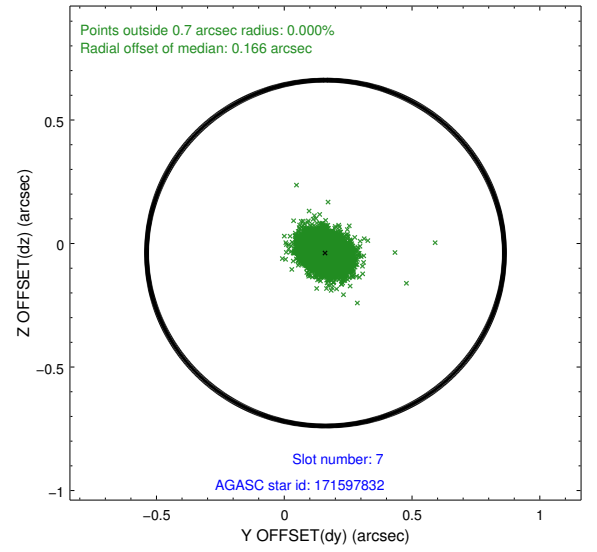
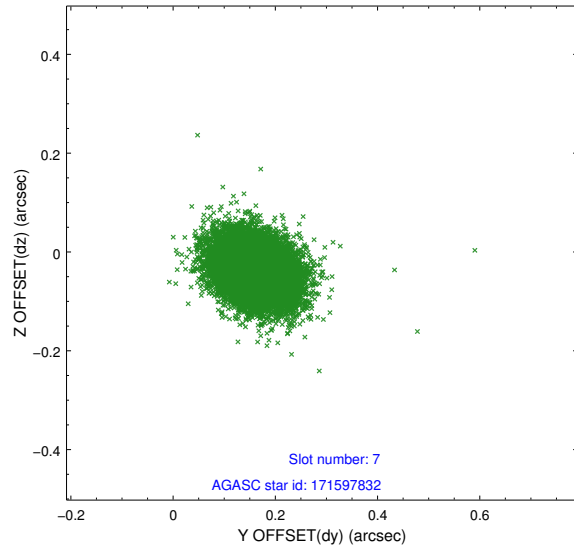
2.4.3 Slot 5



2.4.4 Slot 6

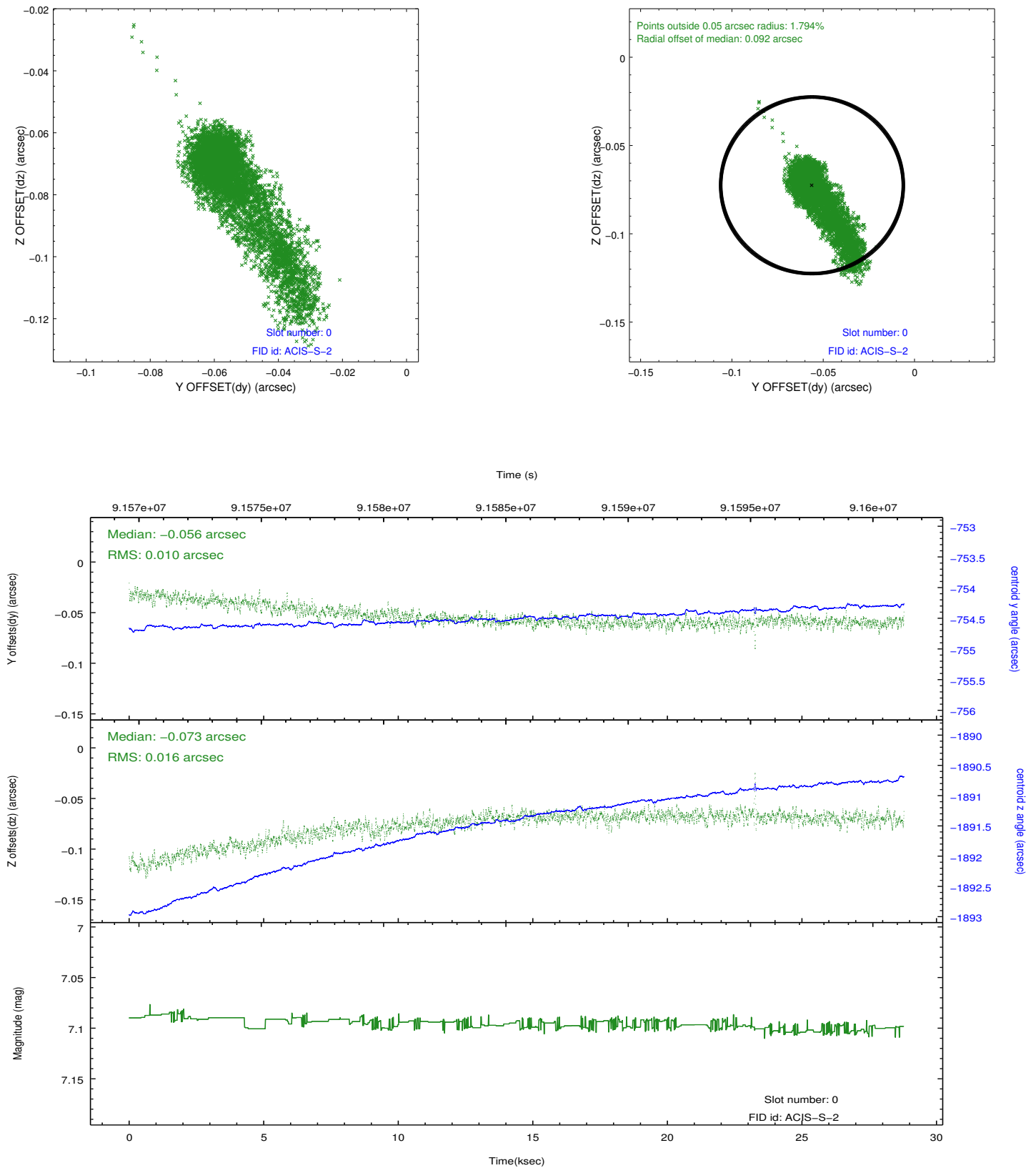


2.4.5 Slot 7

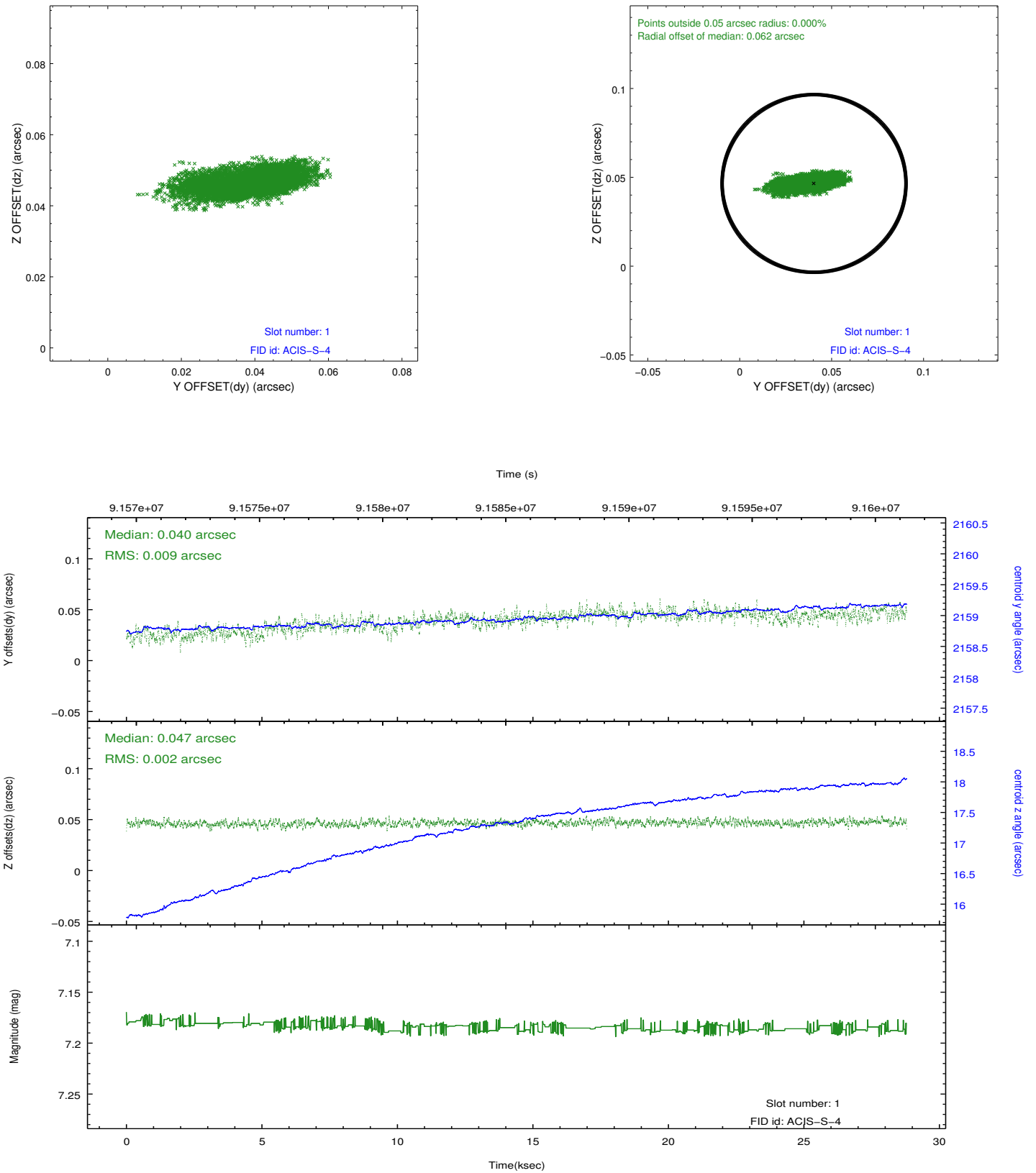


2.5 FID Slots

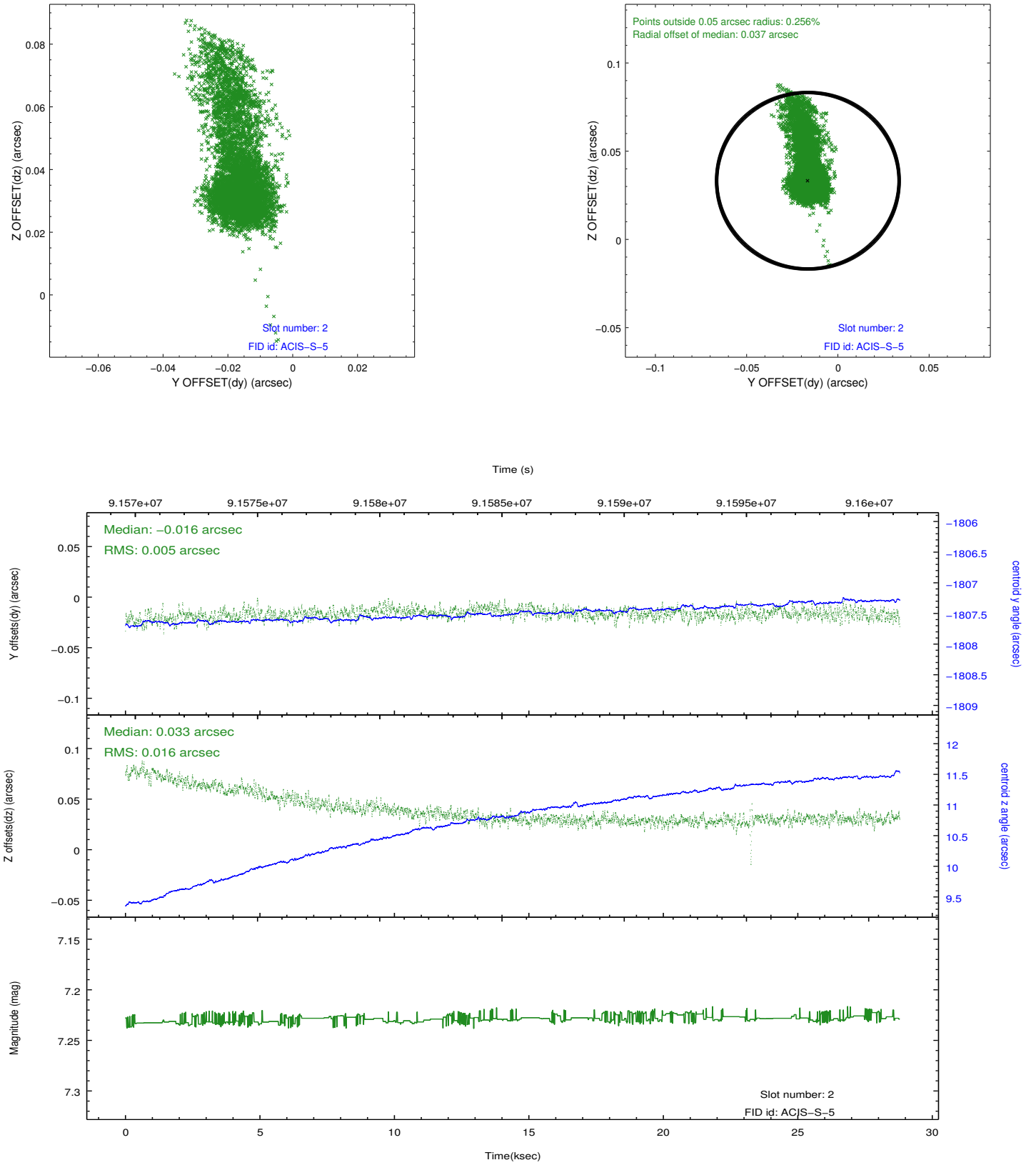
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.7

A.2 Comments

Charge time for this observation remains at original value of 25.7 ks, although with the current processing the charge time would have been 17.4 ksec. The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time. Dither was turned off for this observation.

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Window constraint met.