

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13750 - L2 Version 2
Chandra X-Ray Center

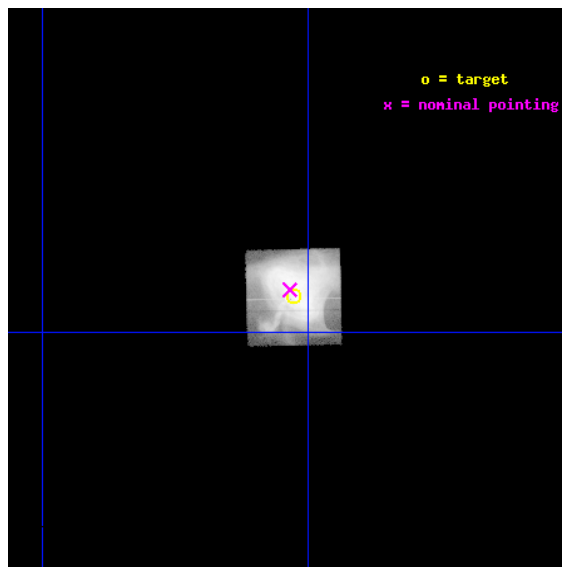
L2 Processing Date : Feb 27 2012

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1 Front

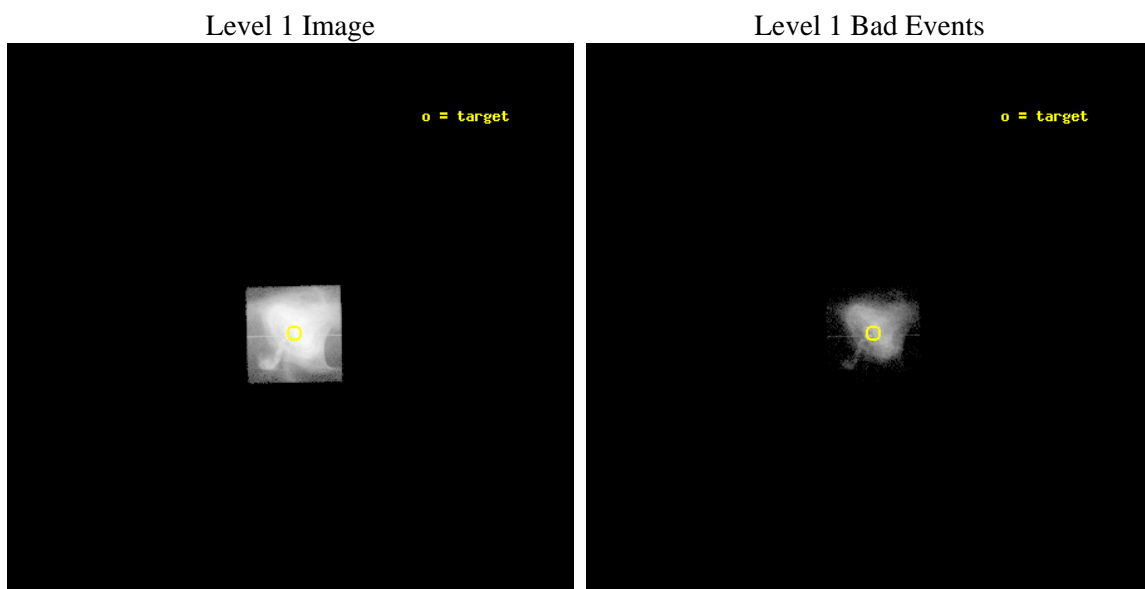
seq_num	501583	Sequence number
obs_id	13750	Observation id
title	Joint Chandra and HST Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.633424838084	Nominal RA [deg]
dec_nom	22.01840361185	Nominal Dec [deg]
roll_nom	88.773075890897	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3384.9217072725	Sum of GTIs [s]
livetime	589.23540494944	Livetime [s]
ontime7	3384.9217072725	Sum of GTIs [s]
l2events	1709694	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3384.9217072725	Sum of GTIs [s]
caldsver	4.4.8	 	ontime7	3384.9217072725	Sum of GTIs [s]
date	2012-02-27T13:23:20	Date and time of file creation	l1events	1887282	Number of level 1 events
revision	2	Processing version of data			

2.1.3 Events

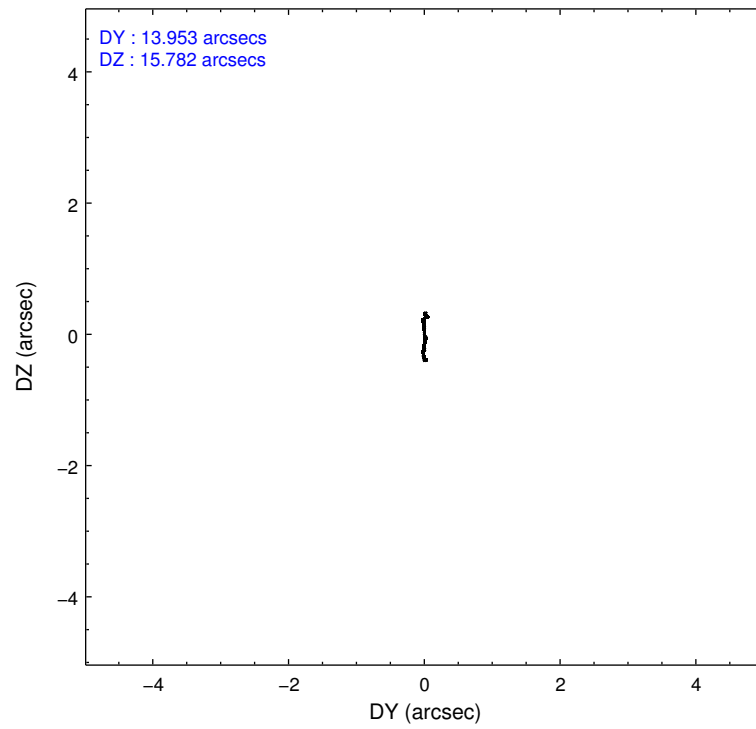
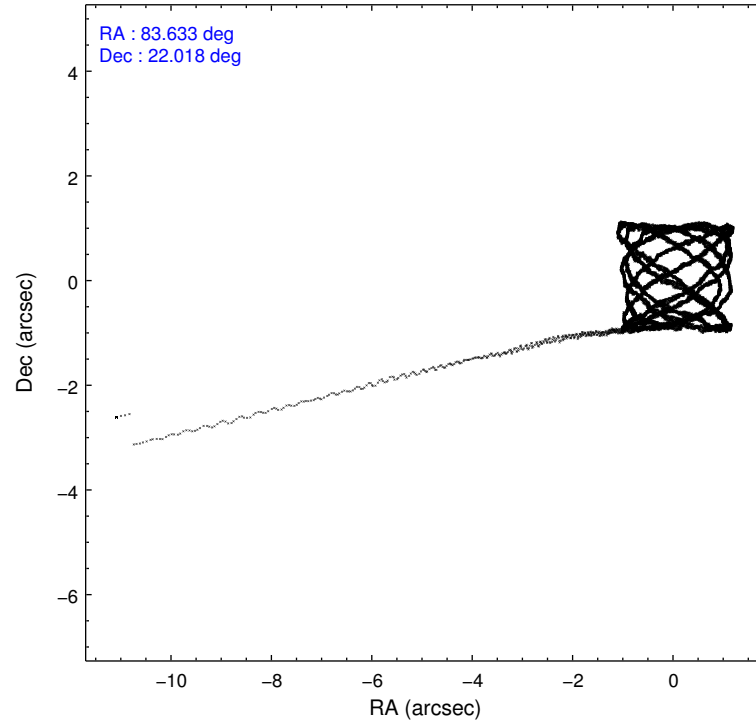
	ccd 7
level 1 events	1887282
rejected events	164721
rejected %	8%

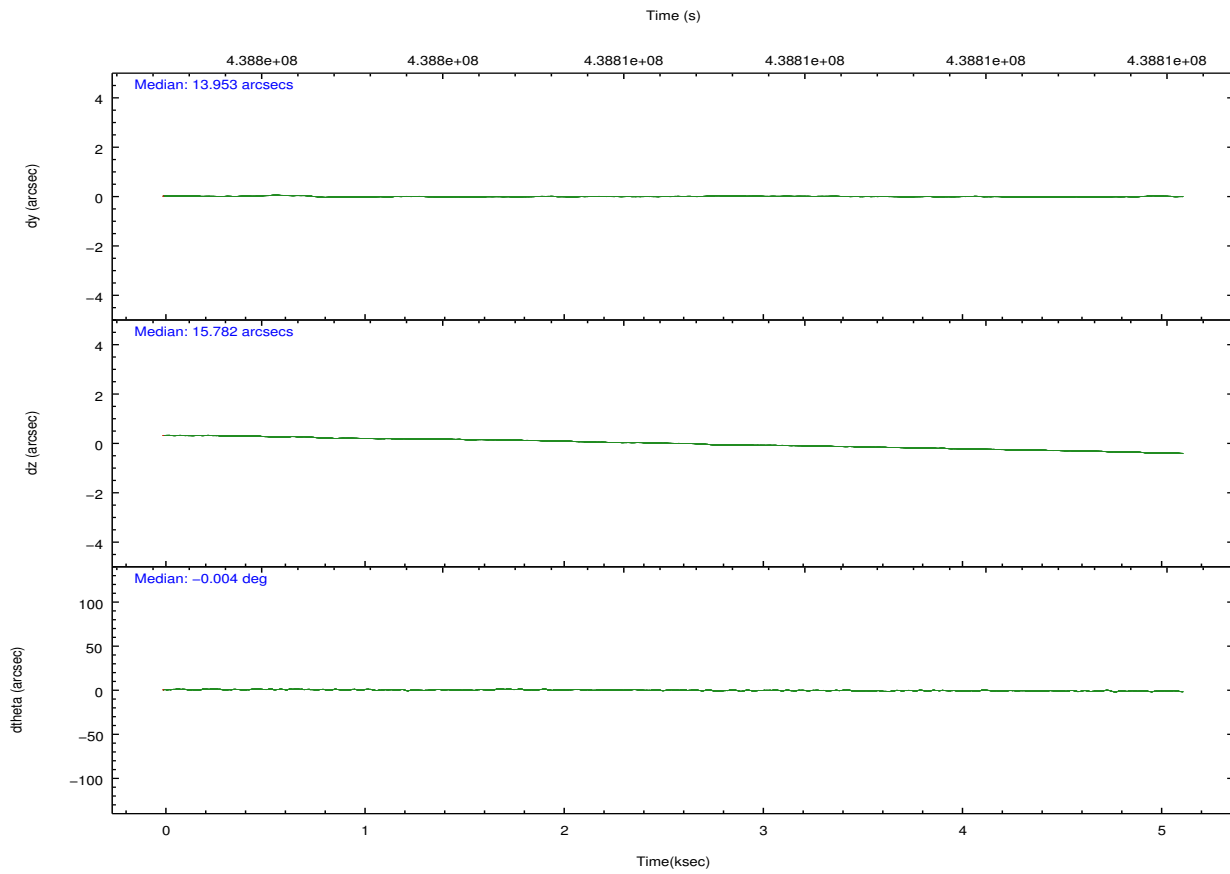
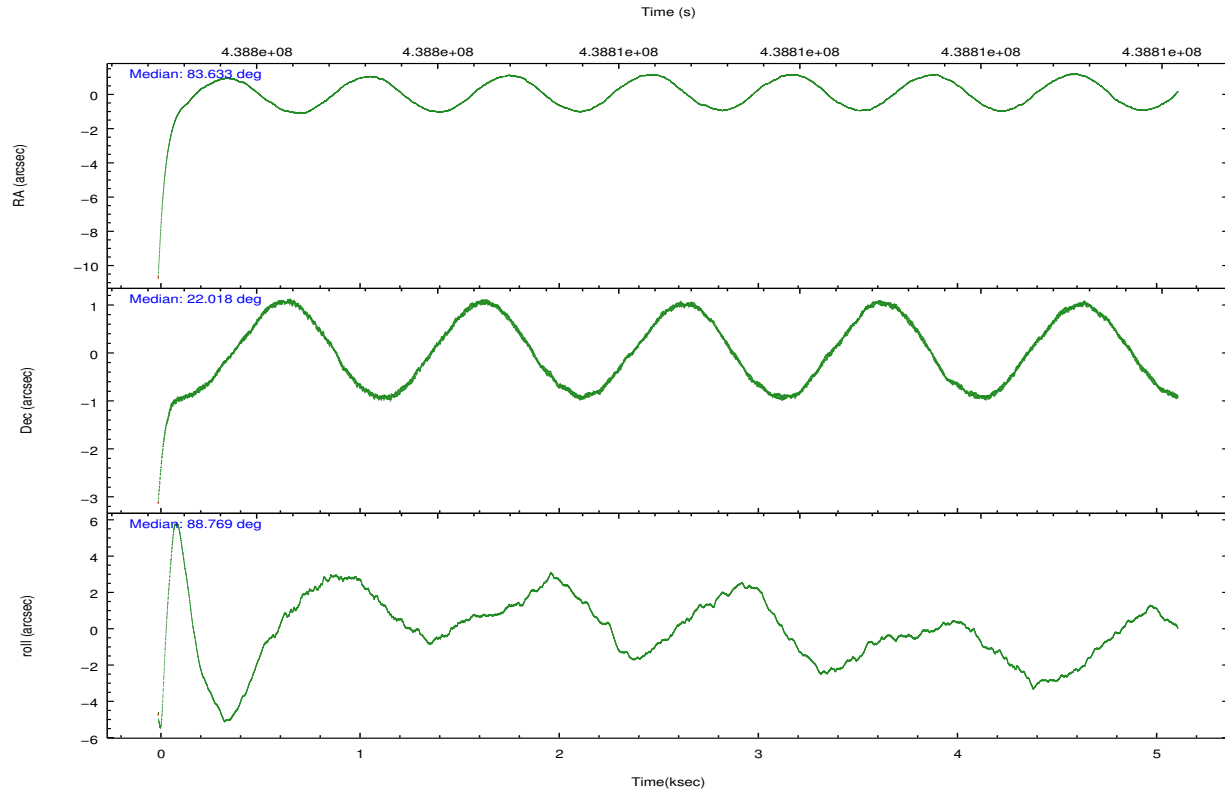
	ccd 7
grade 0 events	381223
	20%
grade 1 events	21318
	1%
grade 2 events	469330
	24%
grade 3 events	193789
	10%
grade 4 events	192047
	10%
grade 5 events	60546
	3%
grade 6 events	486743
	25%
grade 7 events	82286
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.648021	83.63342483808412	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.994623	22.01840361184982	Subarray start row	165	165
[deg] Pointing Roll	88.611009	88.77307589089676	Subarray row count	300	300
[s] Window start time (MET)	438220866.184000	438220866.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	438912065.184000	438912065.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-185.996523	-186.0015030635041			
[mm] SIM translation stage offset	-4.136	-4.131019519503695			
[s] Observation start time (MET)	438803818.184000	438802561.43959			
Observation start date	2011-11-27T17:55:52	2011-11-27T17:36:01			
[s] Observation end time (MET)	438808818.184000	438810072.63999			
Observation end date	2011-11-27T19:19:12	2011-11-27T19:41:12			
Read mode	TIMED	TIMED			

2.3 Aspect



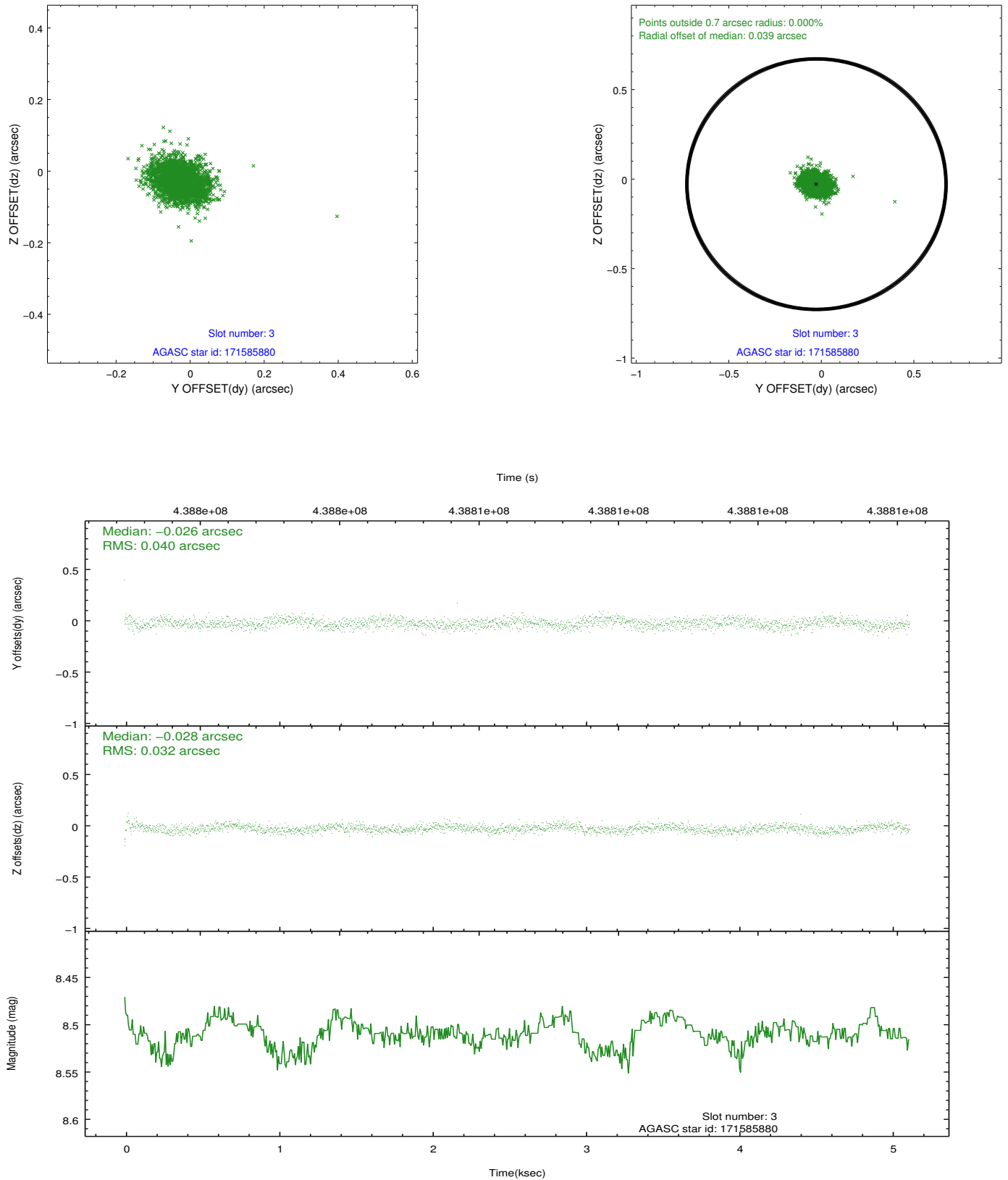


Slot Statistics

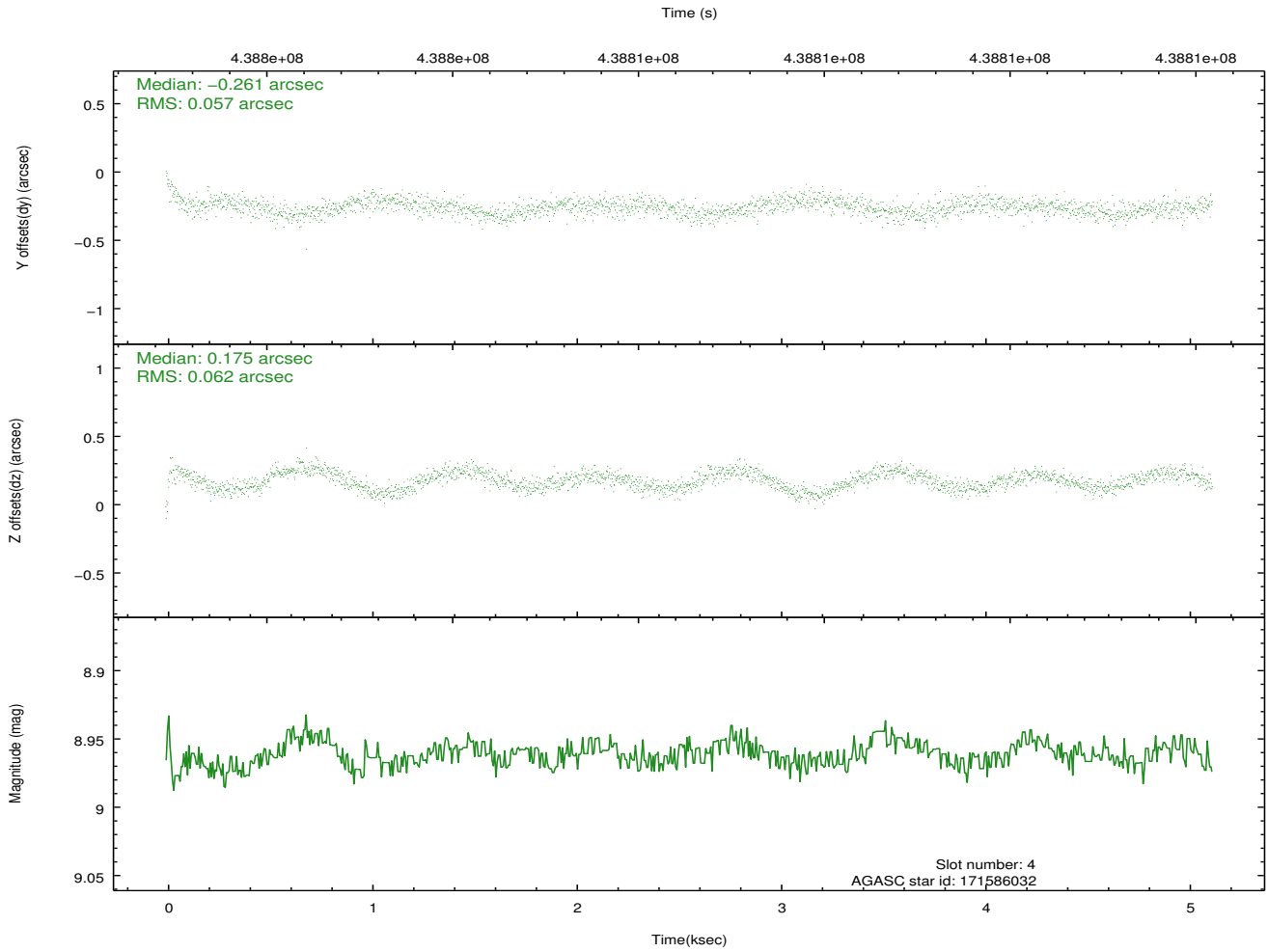
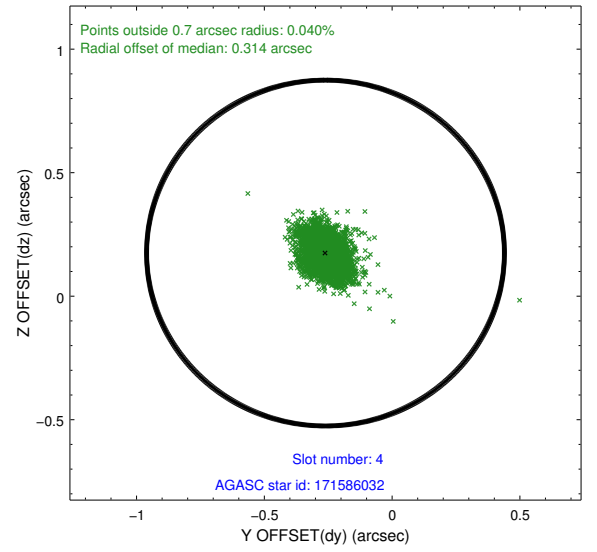
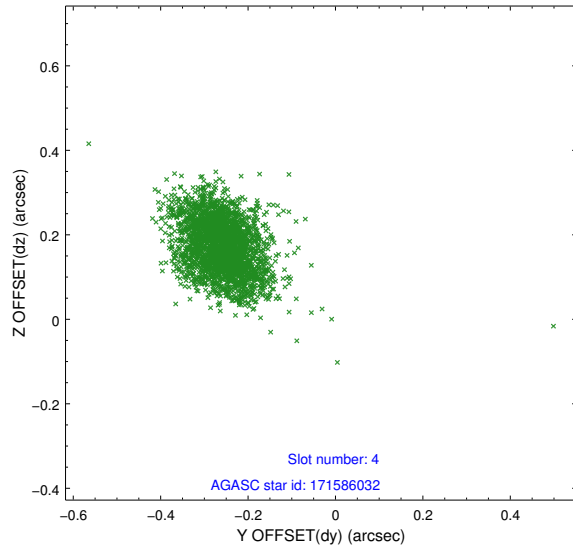
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	1250	-0.090	-0.066	0.012	0.018	0.000000	0.000000	-766.70	-1822.46
1	FID	ACIS-S-4	6.97	1250	0.247	0.062	0.006	0.013	0.000000	0.000000	2146.37	84.84
2	FID	ACIS-S-5	7.02	1250	-0.188	0.013	0.011	0.016	0.000000	0.000000	-1818.12	79.82
3	GUIDE	171585880	8.51	2499	-0.026	-0.028	0.053	0.088	83.676260	22.176319	656.58	-78.20
4	GUIDE	171586032	8.96	2498	-0.261	0.175	0.087	0.142	83.950197	22.083225	344.78	-999.78
5	GUIDE	171721904	9.14	2496	-0.234	0.019	0.097	0.152	84.272676	22.116922	495.38	-2072.22
6	GUIDE	243941560	8.34	2499	0.286	0.144	0.075	0.129	83.733264	22.568598	2073.34	-233.56
7	GUIDE	171597832	9.17	2497	0.236	-0.303	0.077	0.133	83.183230	21.366702	-2293.98	1502.59

2.4 Star Slots

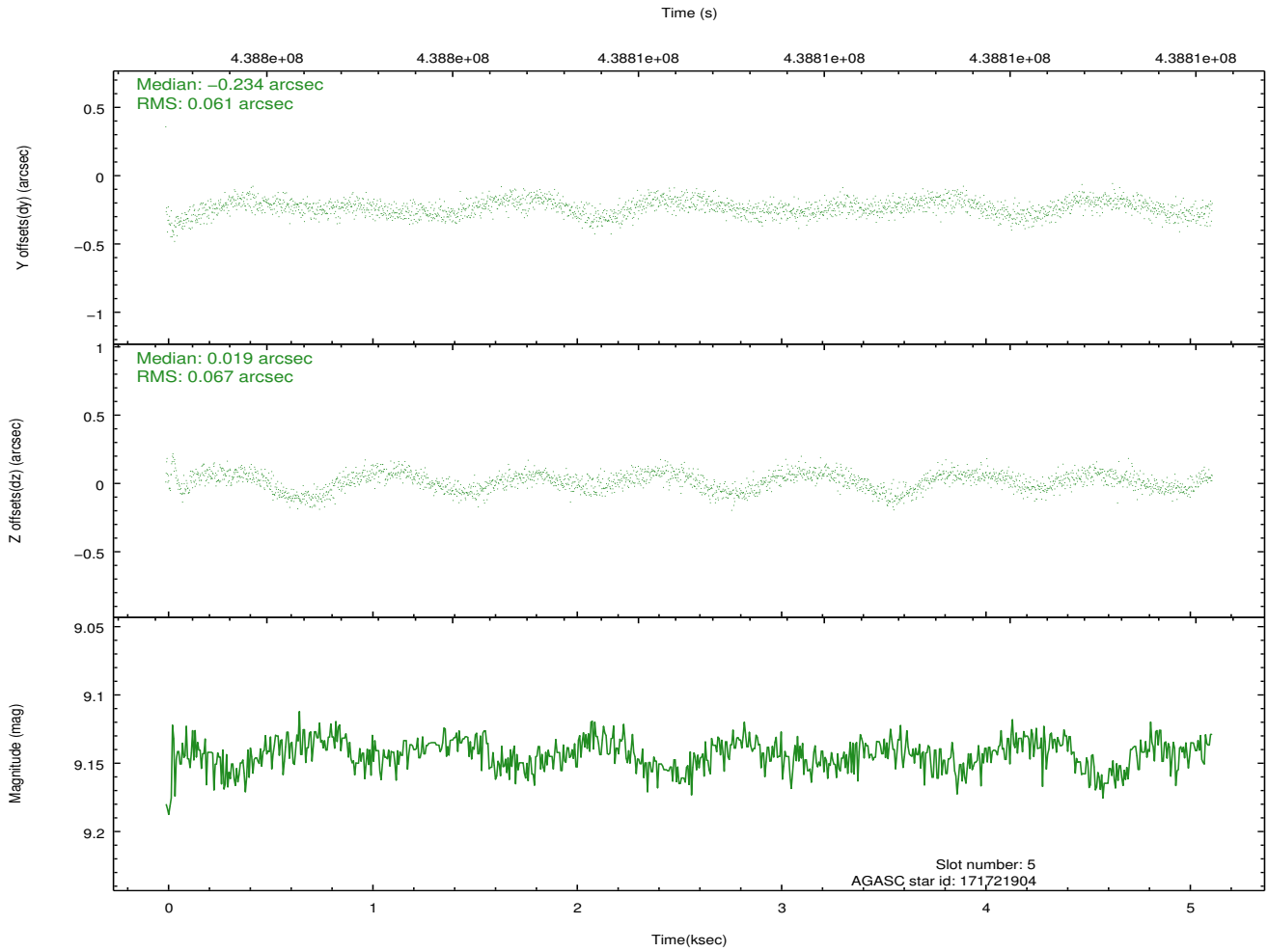
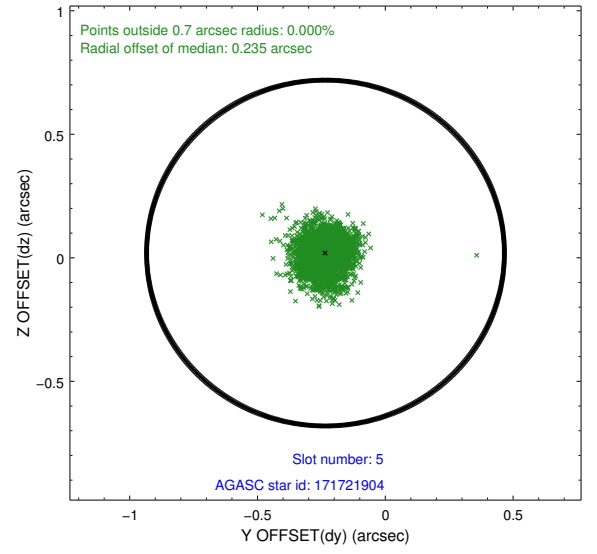
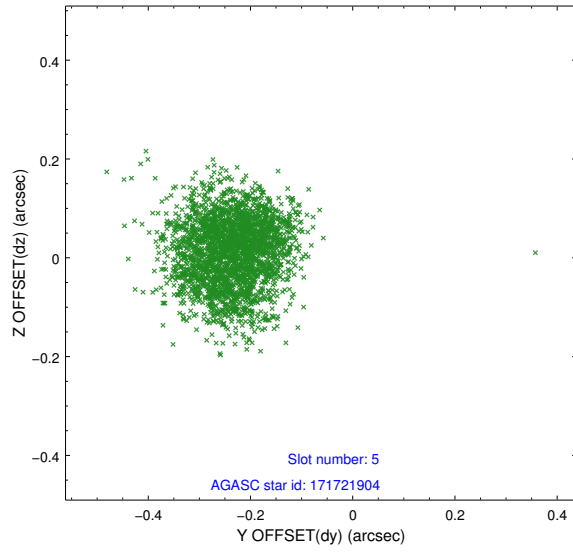
2.4.1 Slot 3



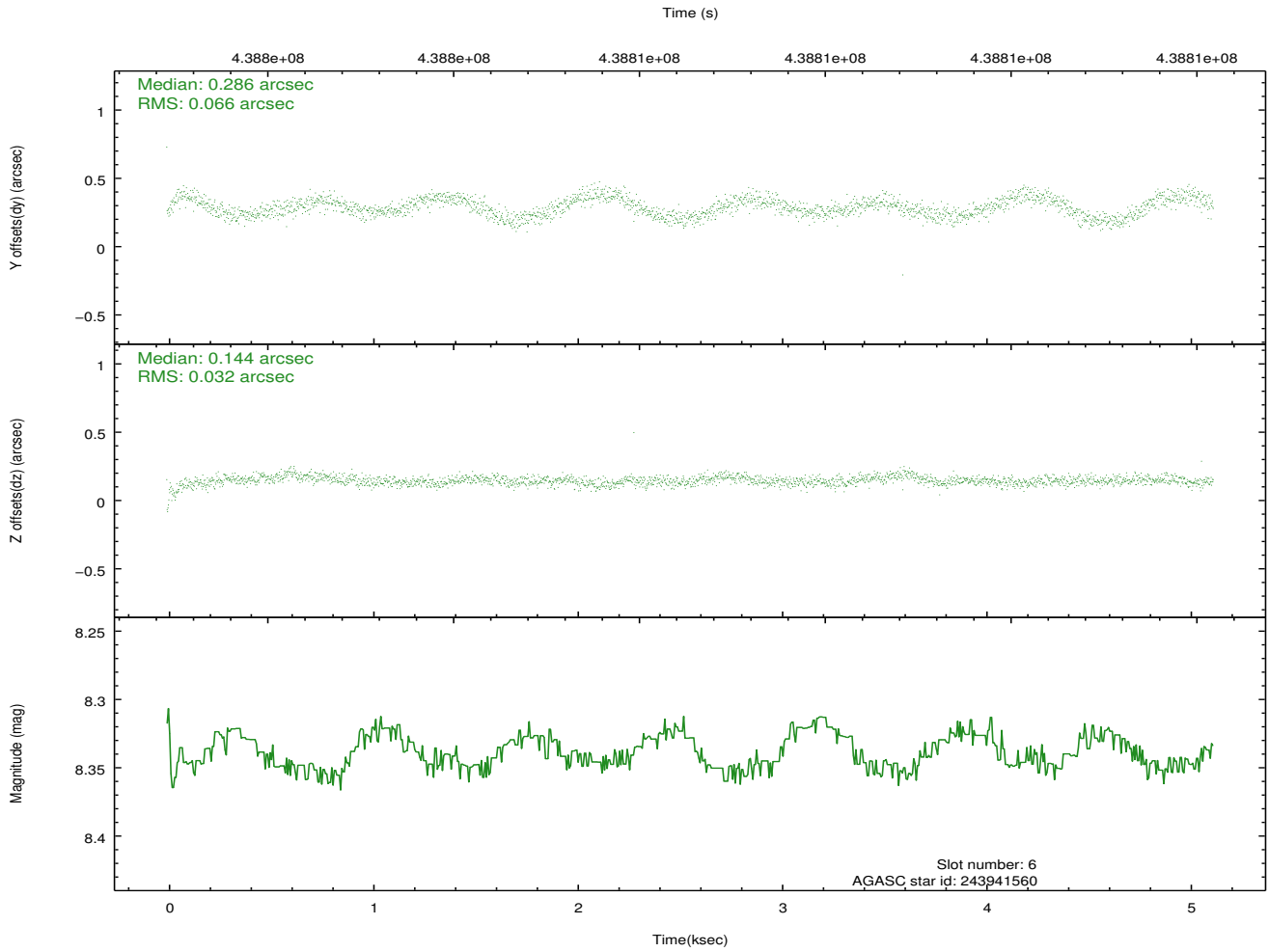
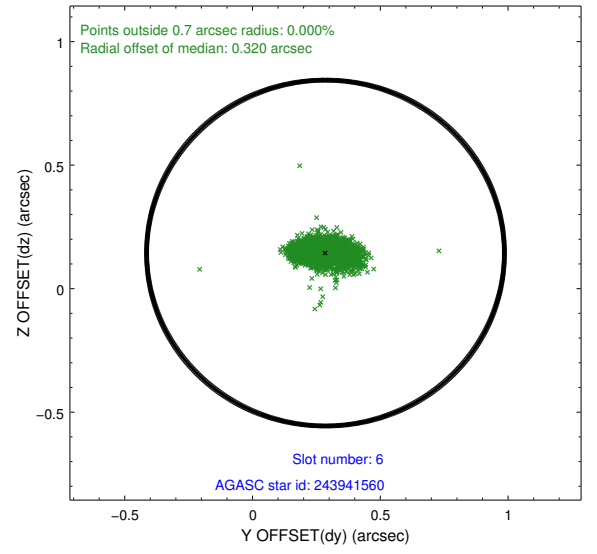
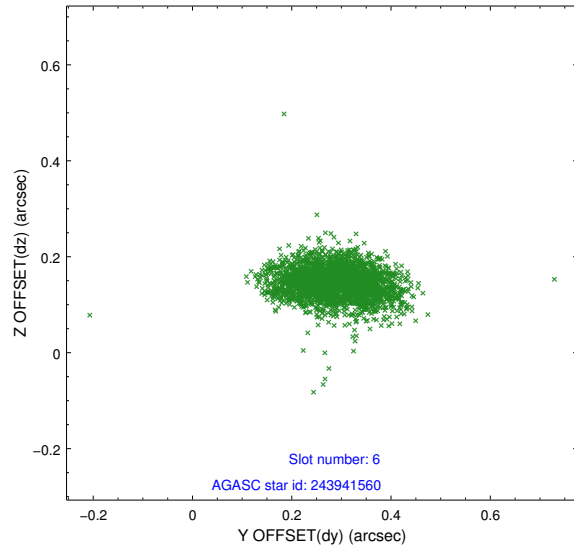
2.4.2 Slot 4



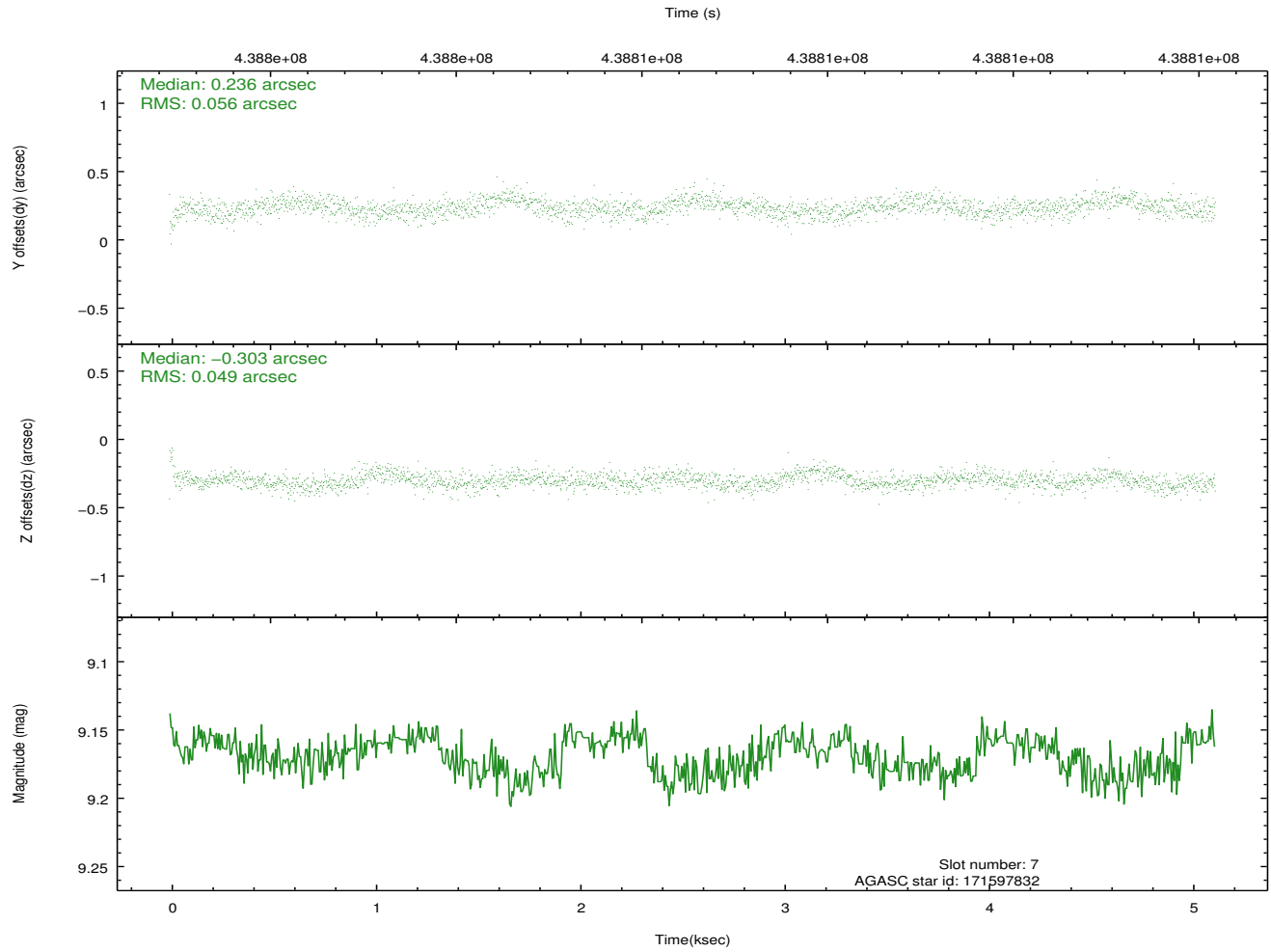
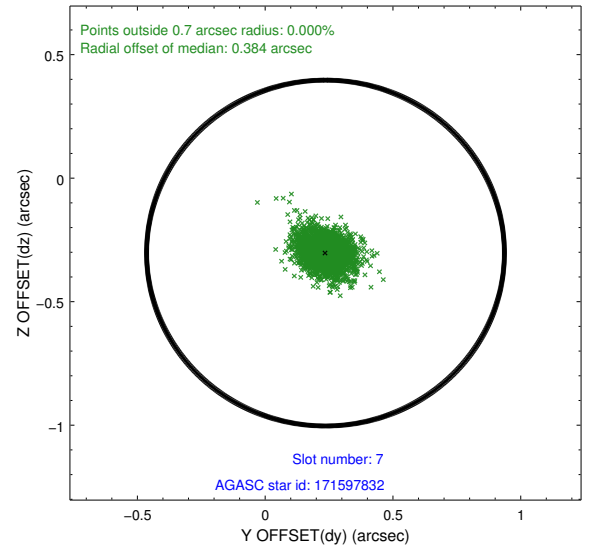
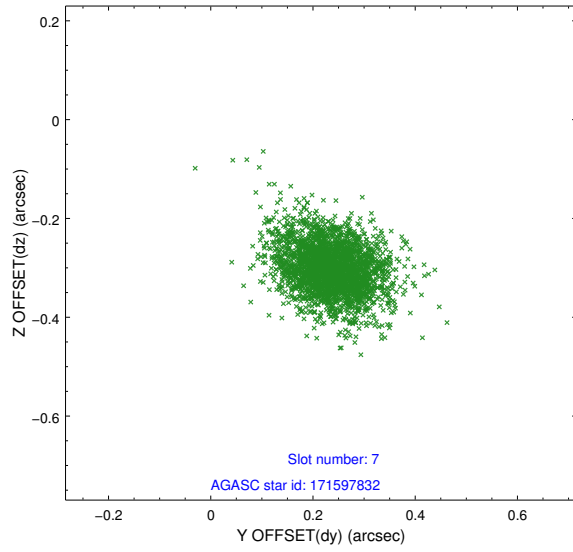
2.4.3 Slot 5



2.4.4 Slot 6

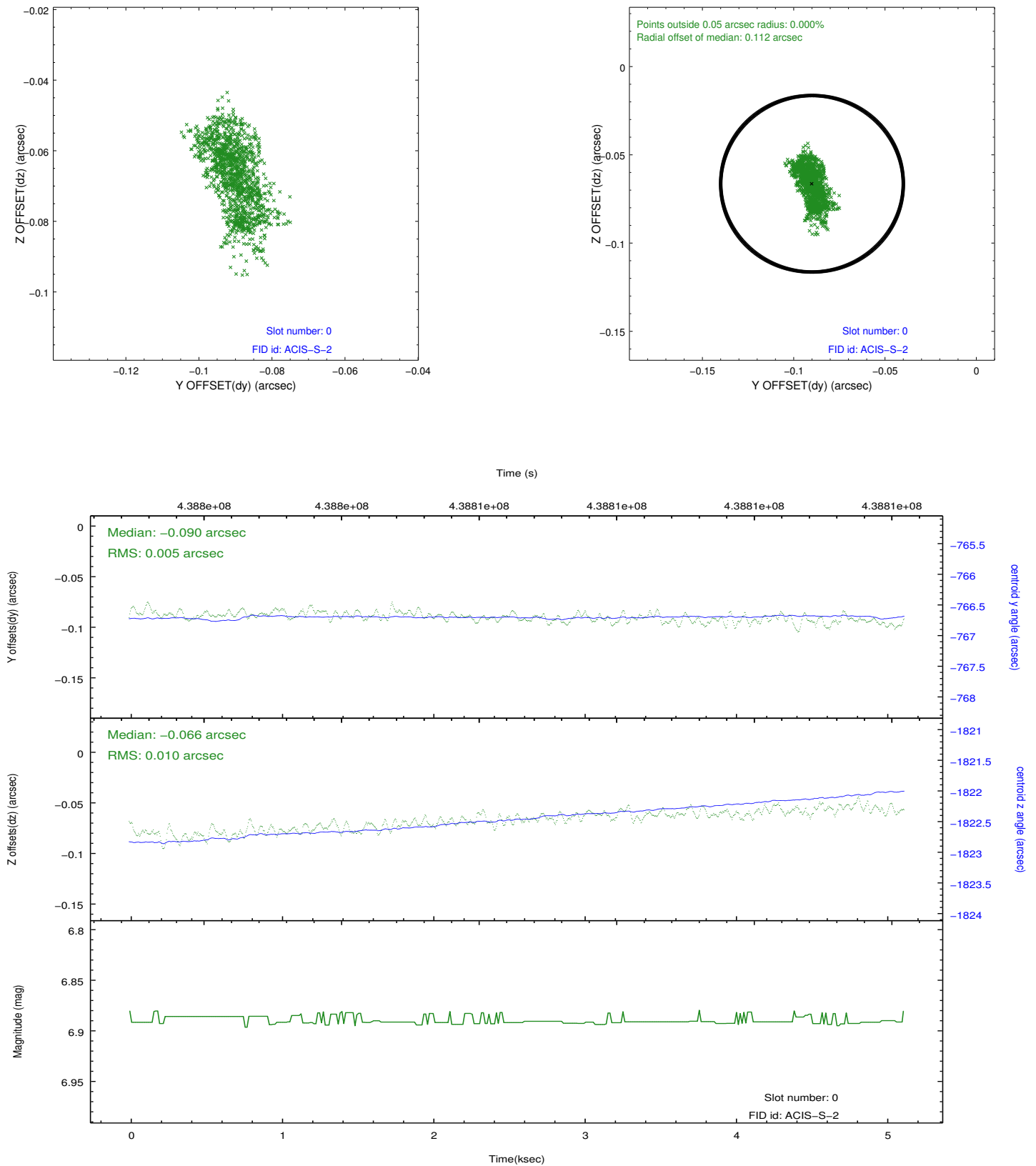


2.4.5 Slot 7

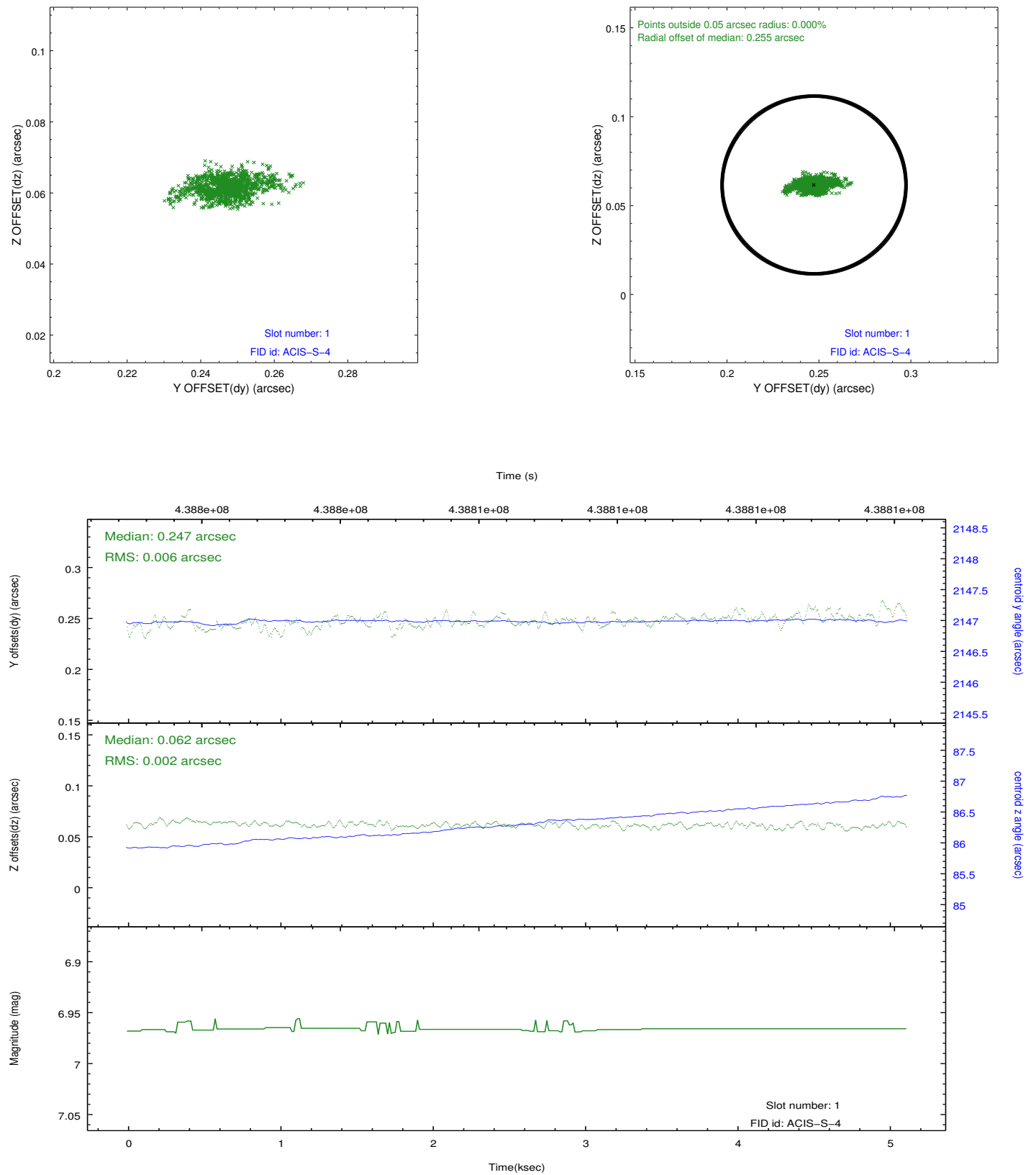


2.5 FID Slots

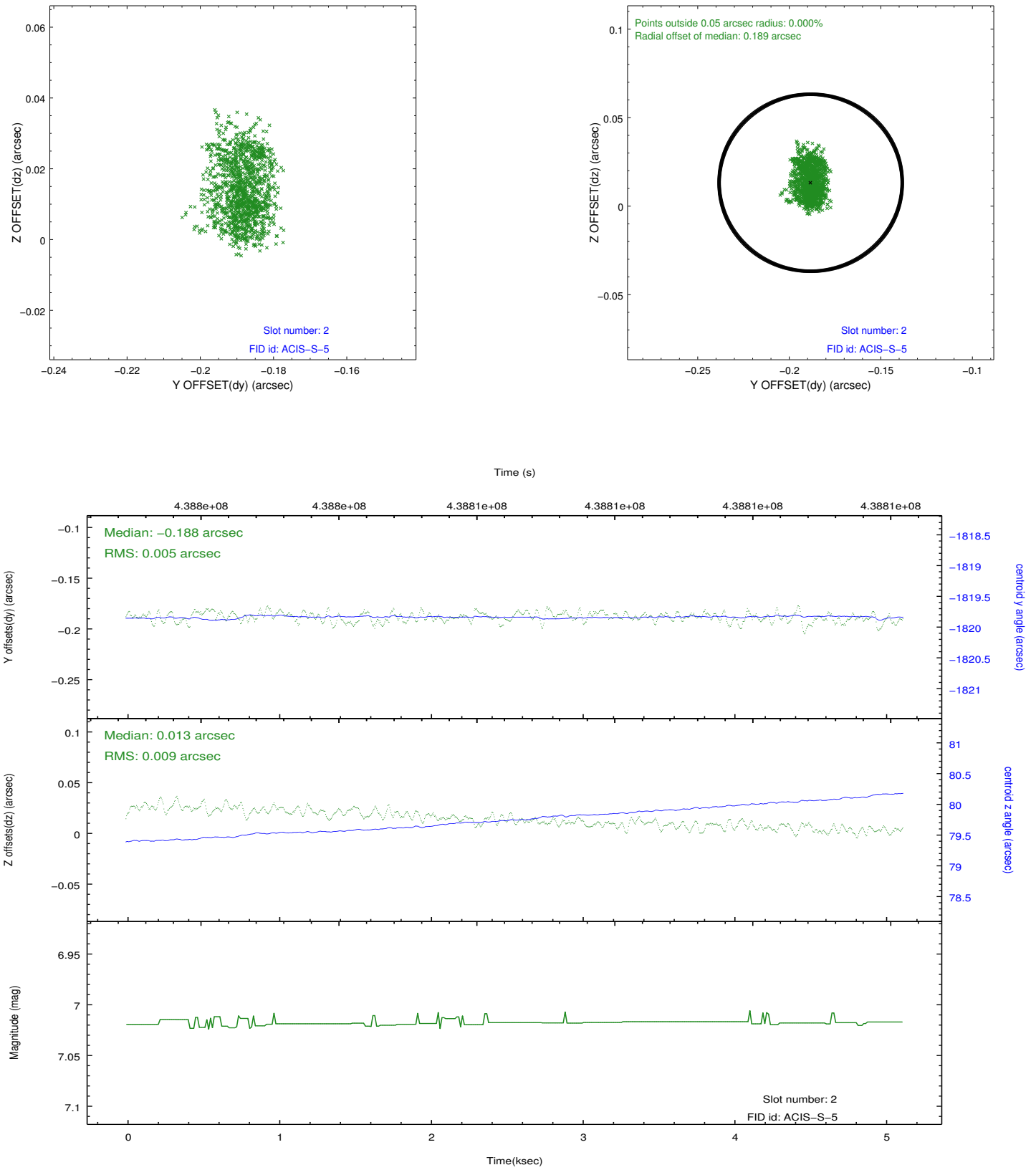
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

A.2 Comments

Charge time for this observation remains at original value of 5 ksec, although with the current processing the charge time would have been about 3.385 ksec. Charge time is set to the scheduled time for this observation, although the ontime is significantly less due to telemetry saturation.

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Non-standard dither of 1 arcsec in y and z was used.