

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5296 - L2 Version 5
Chandra X-Ray Center

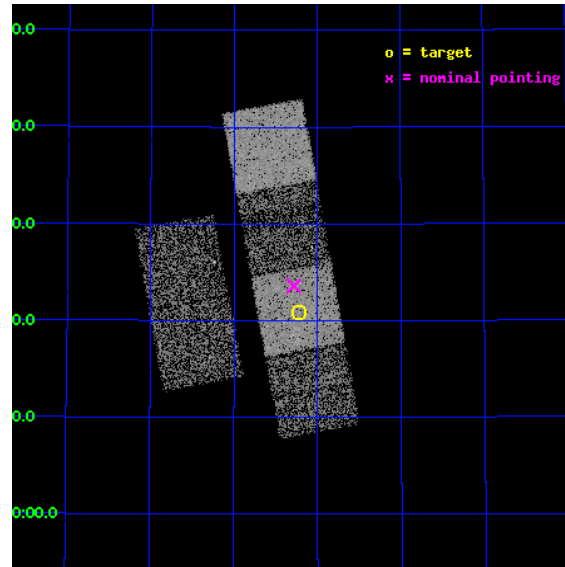
L2 Processing Date : Feb 12 2013

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1 Front

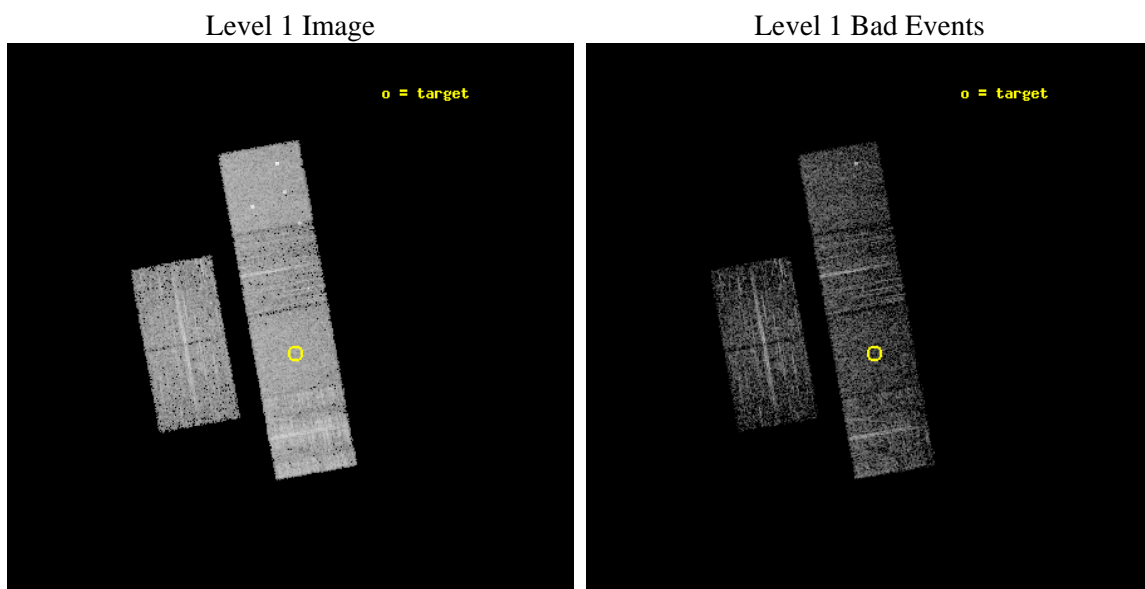
seq_num	600386	Sequence number
obs_id	5296	Observation id
title	An Ultra-Deep Study of M101	Proposal title
observer	Dr. K.D. Kuntz	Principal investigator
object	M101	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.80375	Observer's specified target RA [deg]
dec_targ	54.348778	Observer's specified target Dec [deg]
ra_nom	210.82057921322	Nominal RA [deg]
dec_nom	54.393471297301	Nominal Dec [deg]
roll_nom	79.742975676116	Nominal Roll [deg]
revision	5	Processing version of data
ontime	3134.6460606158	Sum of GTIs [s]
livetime	3094.953284739	Livetime [s]
ontime2	3134.6871006191	Sum of GTIs [s]
ontime3	3134.5229406059	Sum of GTIs [s]
ontime5	3134.6050206125	Sum of GTIs [s]
ontime6	3134.5639806092	Sum of GTIs [s]
ontime7	3134.6460606158	Sum of GTIs [s]
ontime8	3134.4819006324	Sum of GTIs [s]
l2events	37835	Number of level 2 events



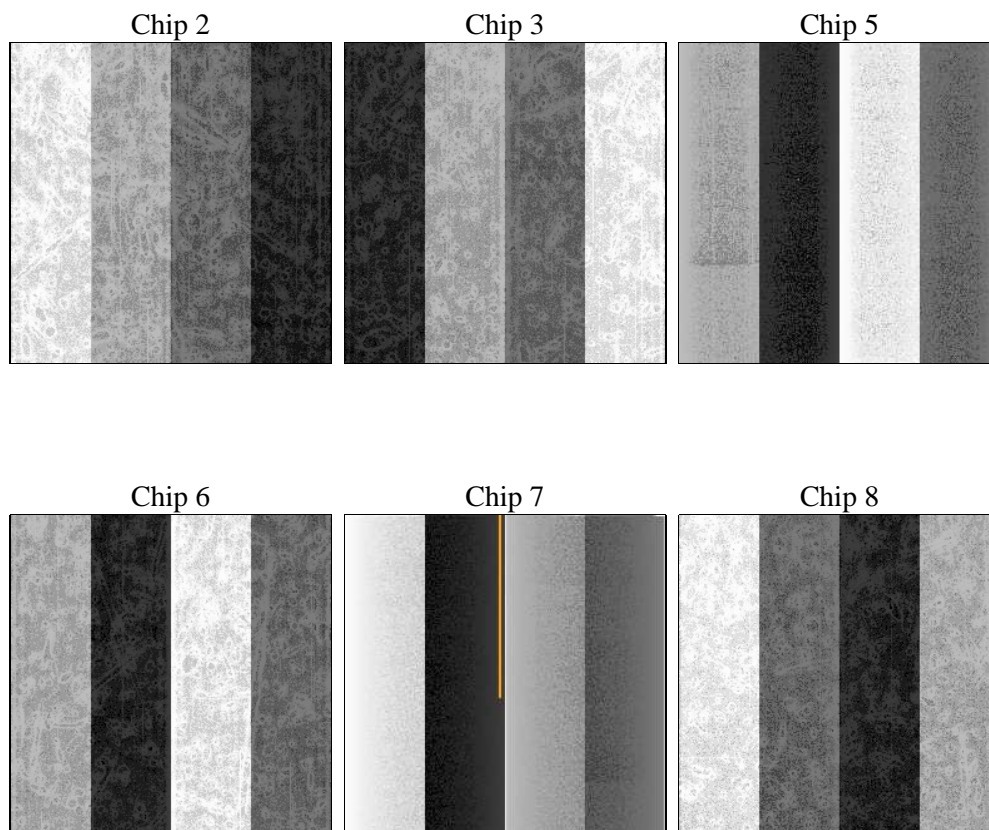
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	61270.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	3134.6460606158	Sum of GTIs [s]
caldsver	4.5.5	 	ontime2	3134.6871006191	Sum of GTIs [s]
date	2013-02-13T03:27:06	Date and time of file creation	ontime3	3134.5229406059	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	3134.6050206125	Sum of GTIs [s]
			ontime6	3134.5639806092	Sum of GTIs [s]
			ontime7	3134.6460606158	Sum of GTIs [s]
			ontime8	3134.4819006324	Sum of GTIs [s]
			l1events	168136	Number of level 1 events

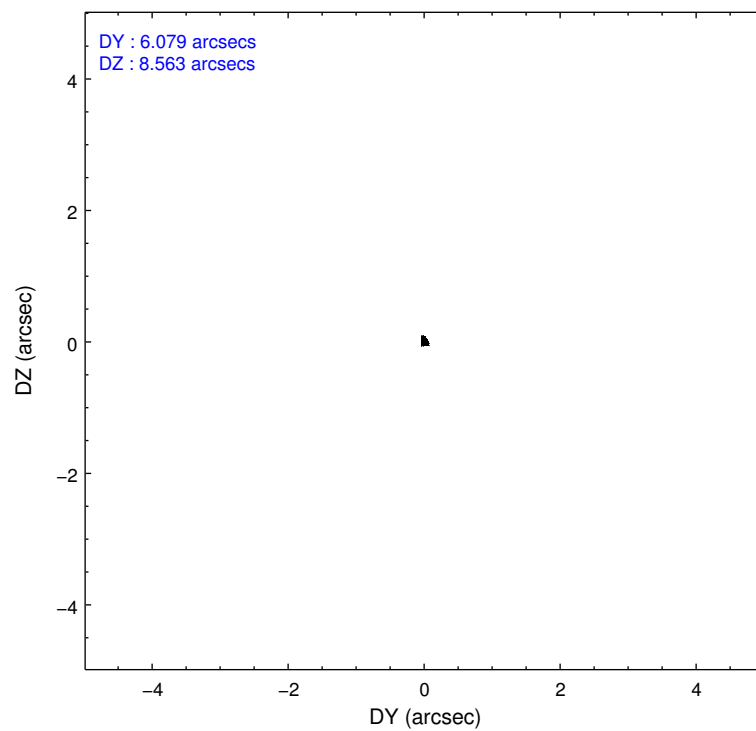
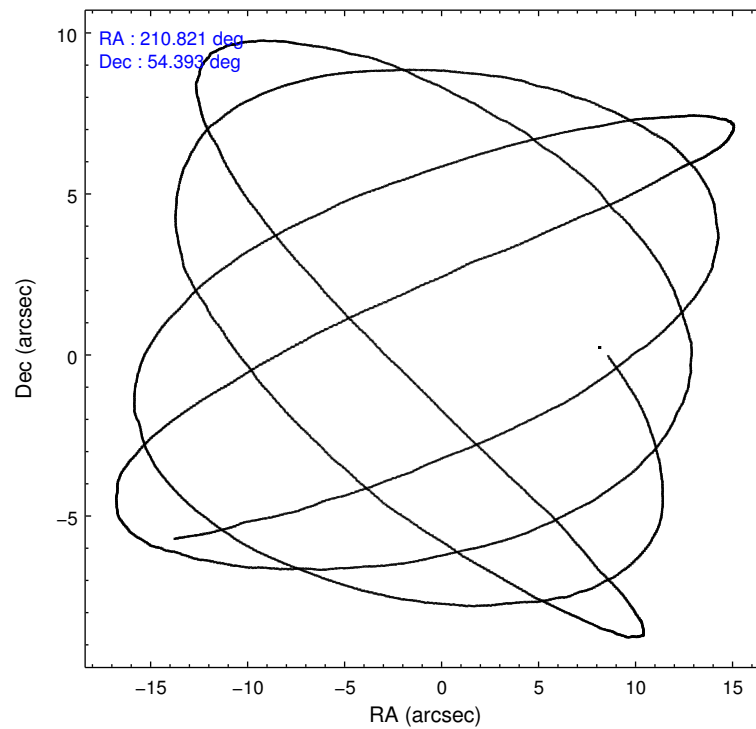
2.1.4 Events

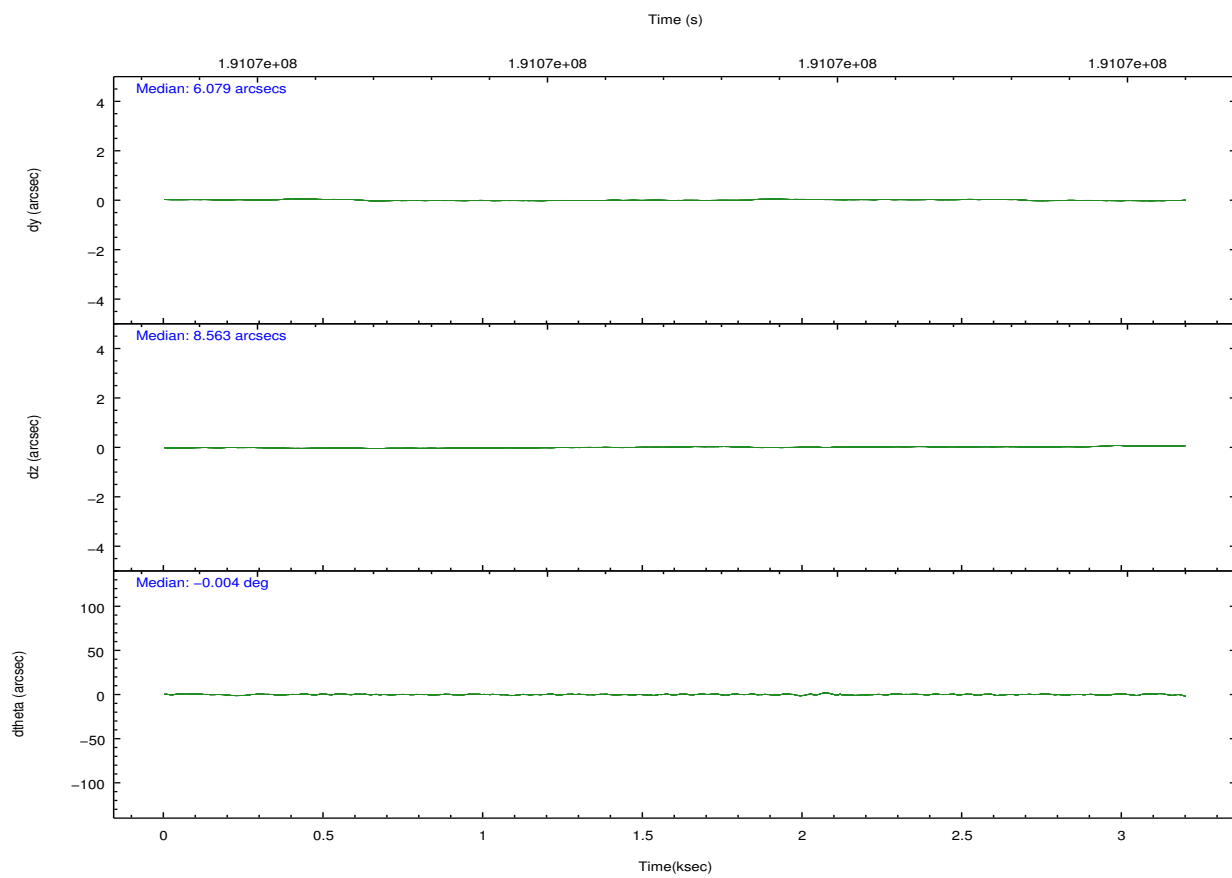
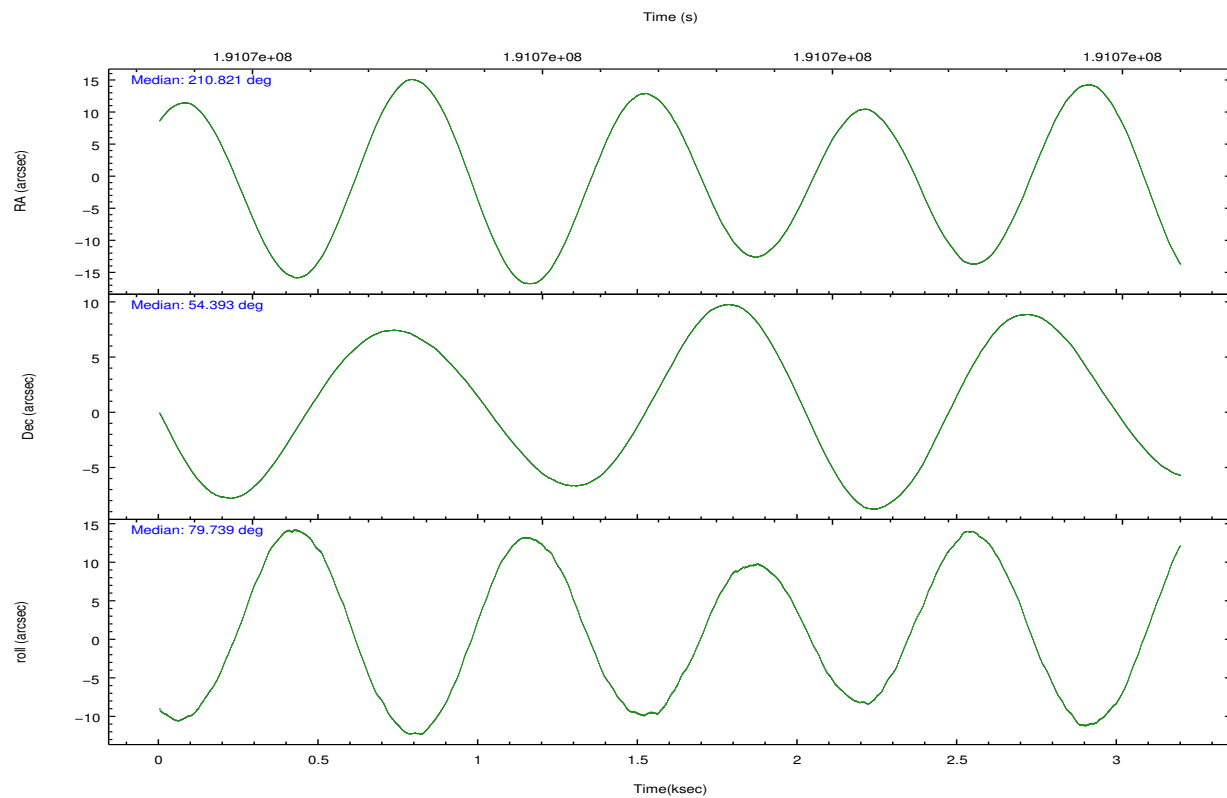
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22901	20982	33567	23194	28828	38664	grade 0 events	1747	1350	1953	1521	1321	6266
rejected events	19162	17542	18446	19481	16715	21619		7%	6%	5%	6%	4%	16%
rejected %	83%	83%	54%	83%	57%	55%	grade 1 events	26	13	77	14	30	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	782	910	4655	963	2480	2246
								3%	4%	13%	4%	8%	5%
							grade 3 events	241	235	640	249	1106	3143
								1%	1%	1%	1%	3%	8%
							grade 4 events	270	236	641	286	1098	2846
								1%	1%	1%	1%	3%	7%
							grade 5 events	837	875	2348	964	2616	1316
								3%	4%	6%	4%	9%	3%
							grade 6 events	732	743	7403	728	6221	2692
								3%	3%	22%	3%	21%	6%
							grade 7 events	18266	16620	15850	18469	13956	20096
								79%	79%	47%	79%	48%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	210.837114	210.8205792132185	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.367910	54.39347129730056	Alternating exposures requested	N	N
[deg] Pointing Roll	79.572882	79.74297567611629	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1425803651734	-190.1425803651734			
[mm] SIM translation stage offset	0.01005726120618533	0.01005726120618533			
[s] Observation start time (MET)	191069843.184000	191069843.184			
Observation start date	2004-01-21T10:56:19	2004-01-21T10:57:23			
[s] Observation end time (MET)	191073042.000000	191073042			
Observation end date	2004-01-21T11:50:42	2004-01-21T11:50:42			
Read mode	TIMED	TIMED			

2.3 Aspect



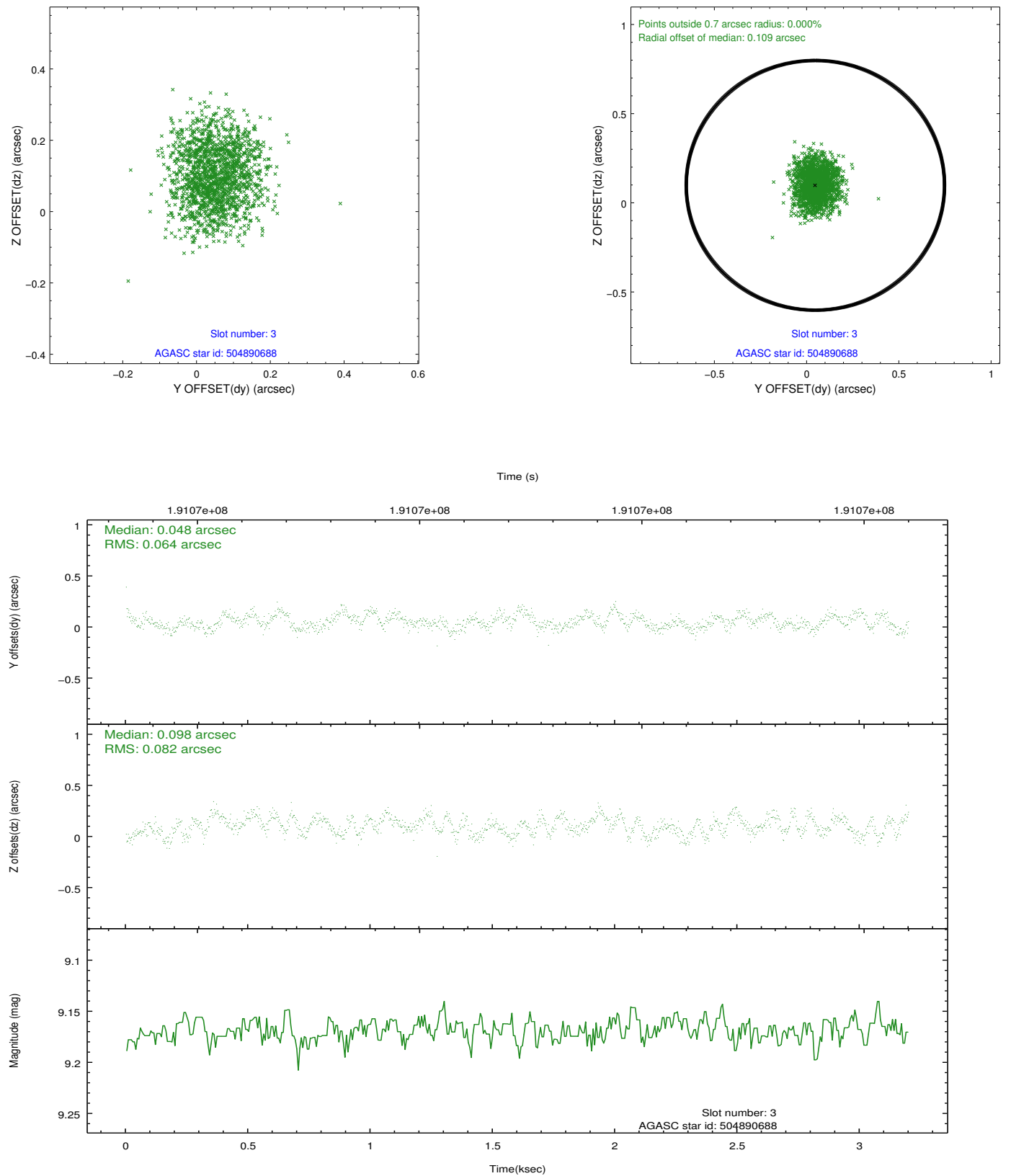


Slot Statistics

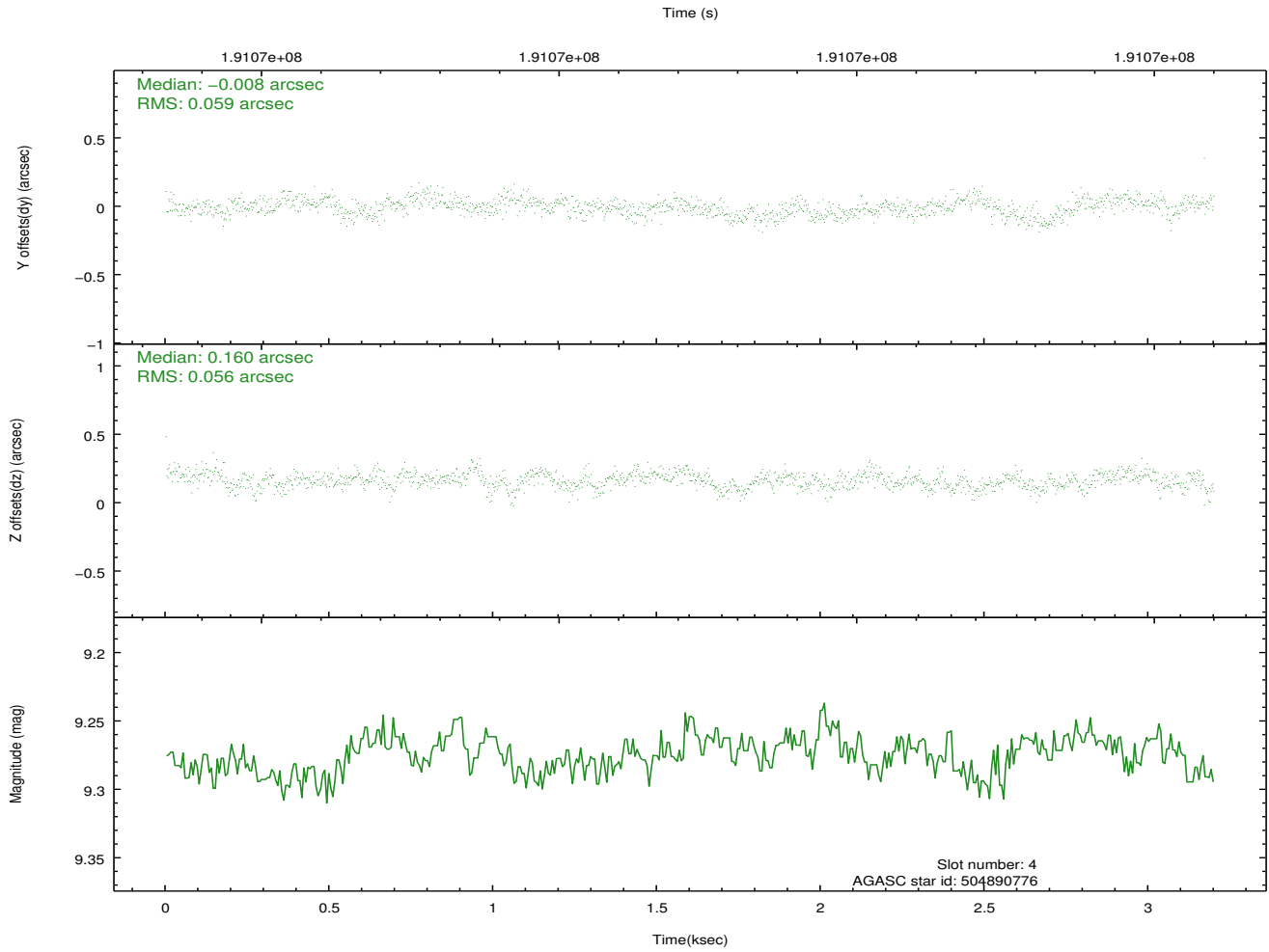
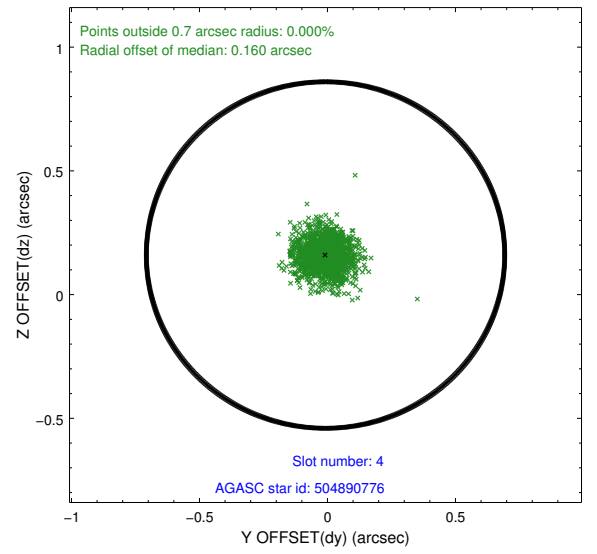
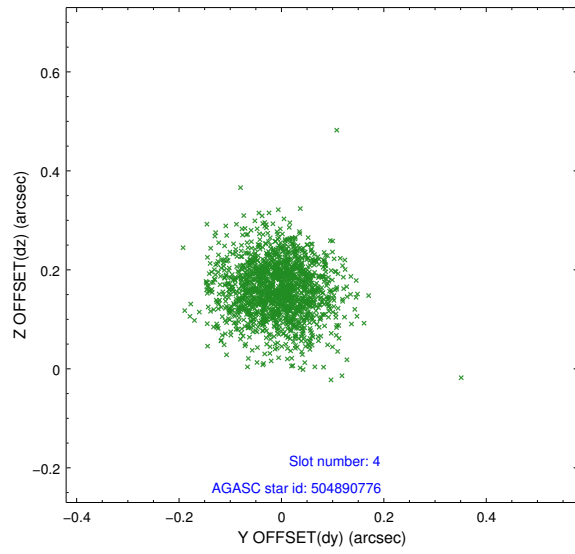
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	781	-0.061	-0.031	0.006	0.011	0.000000	0.000000	-758.88	-1729.74
1	FID	ACIS-S-4	7.21	780	0.046	0.040	0.007	0.011	0.000000	0.000000	2153.61	176.73
2	FID	ACIS-S-6	7.35	780	-0.012	-0.002	0.008	0.012	0.000000	0.000000	405.73	816.36
3	GUIDE	504890688	9.17	1561	0.048	0.098	0.113	0.173	211.697686	53.837149	-1536.97	-2141.62
4	GUIDE	504890776	9.27	1560	-0.008	0.160	0.086	0.140	211.095934	54.816966	1687.55	-235.98
5	GUIDE	504891480	8.07	1560	0.026	-0.091	0.072	0.107	210.708012	54.666096	1008.92	458.88
6	GUIDE	504894856	8.99	1561	0.055	-0.103	0.084	0.133	209.819510	54.132689	-1205.00	1960.96
7	GUIDE	505292416	9.33	1560	-0.121	-0.069	0.094	0.153	210.920759	55.040479	2412.39	270.57

2.4 Star Slots

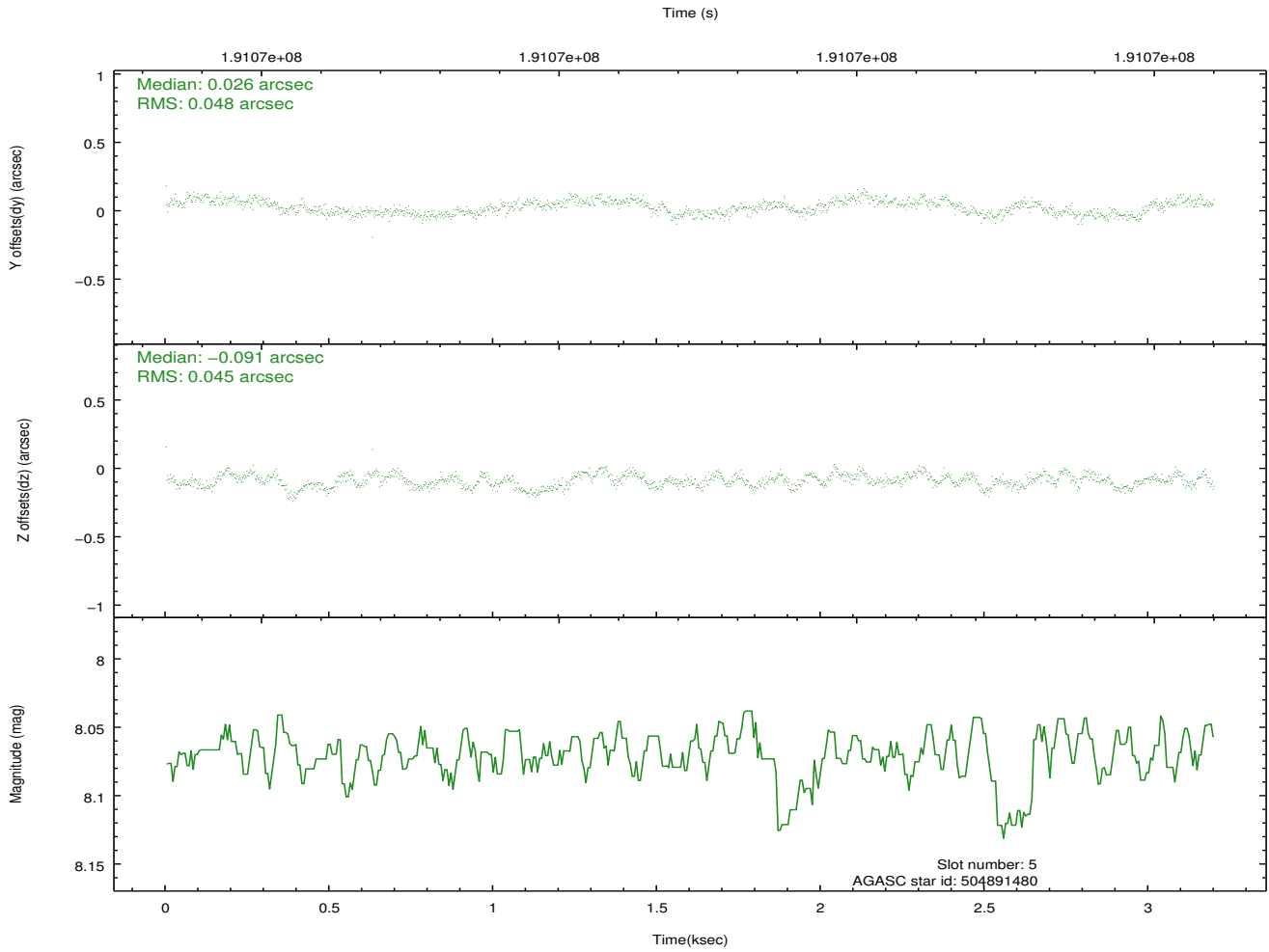
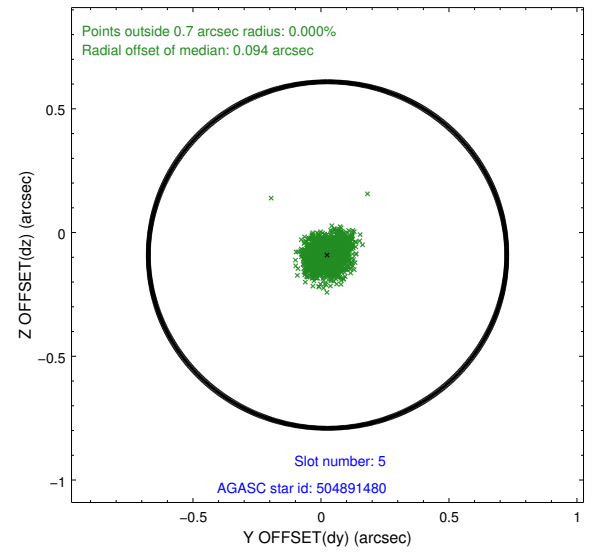
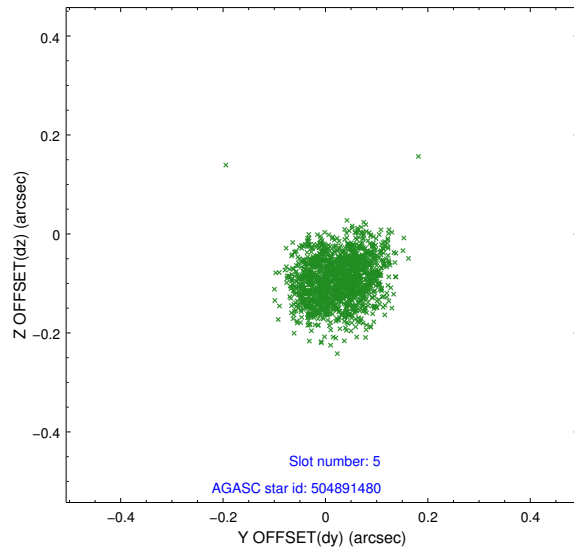
2.4.1 Slot 3



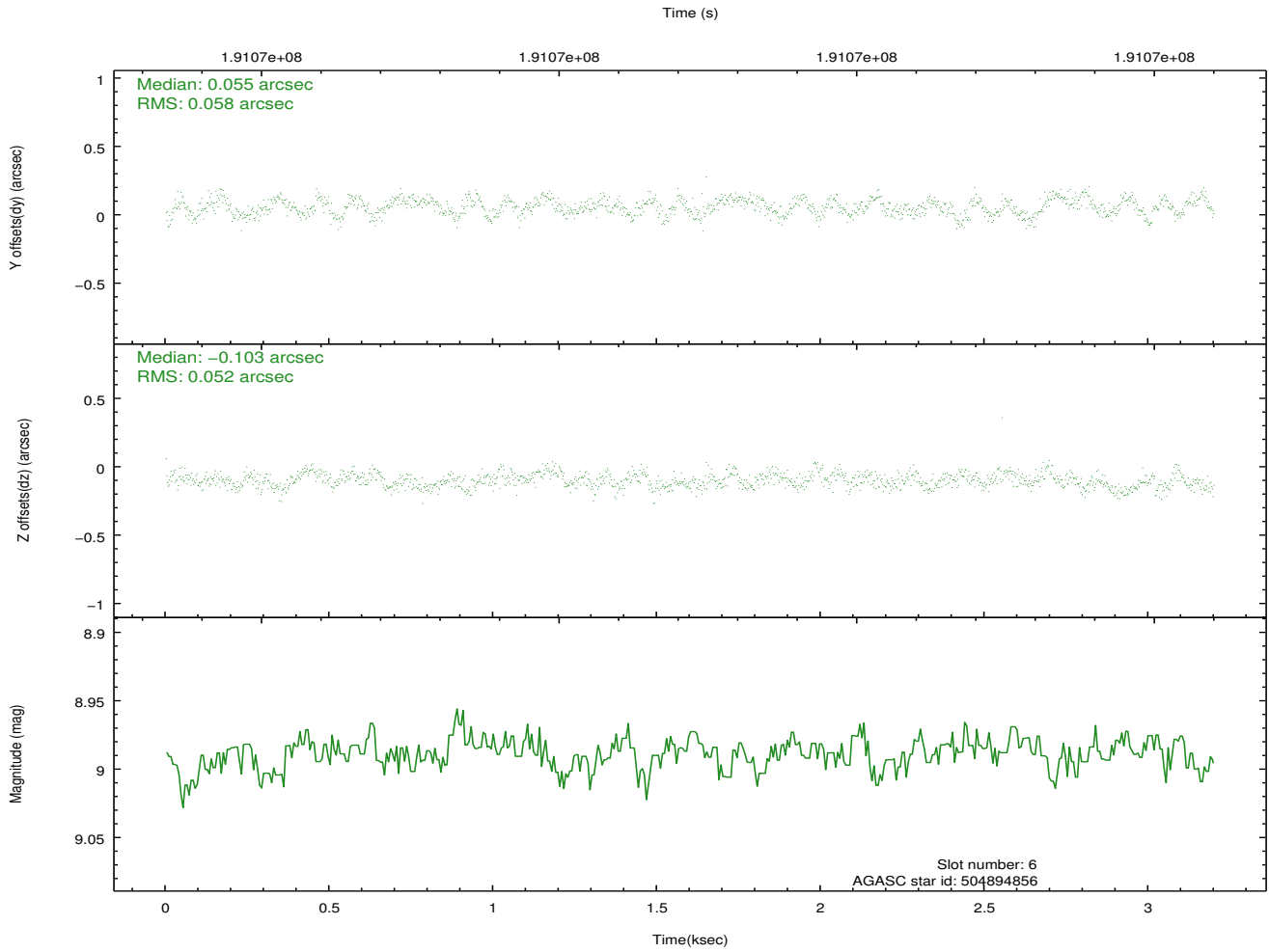
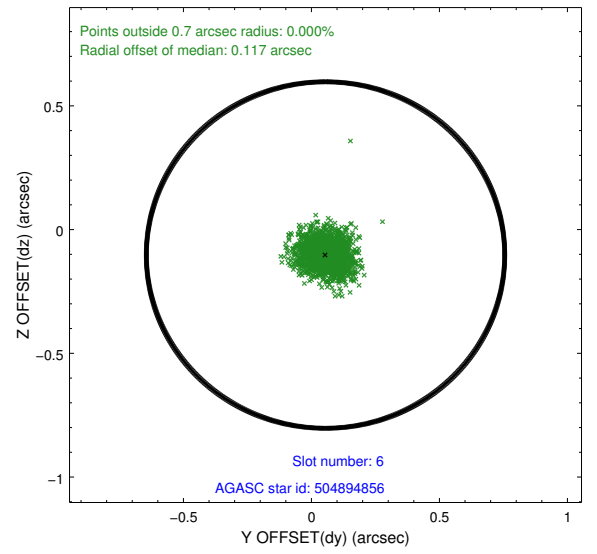
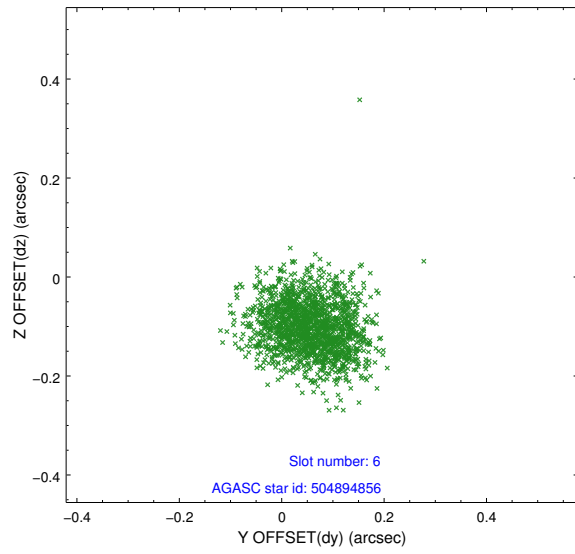
2.4.2 Slot 4



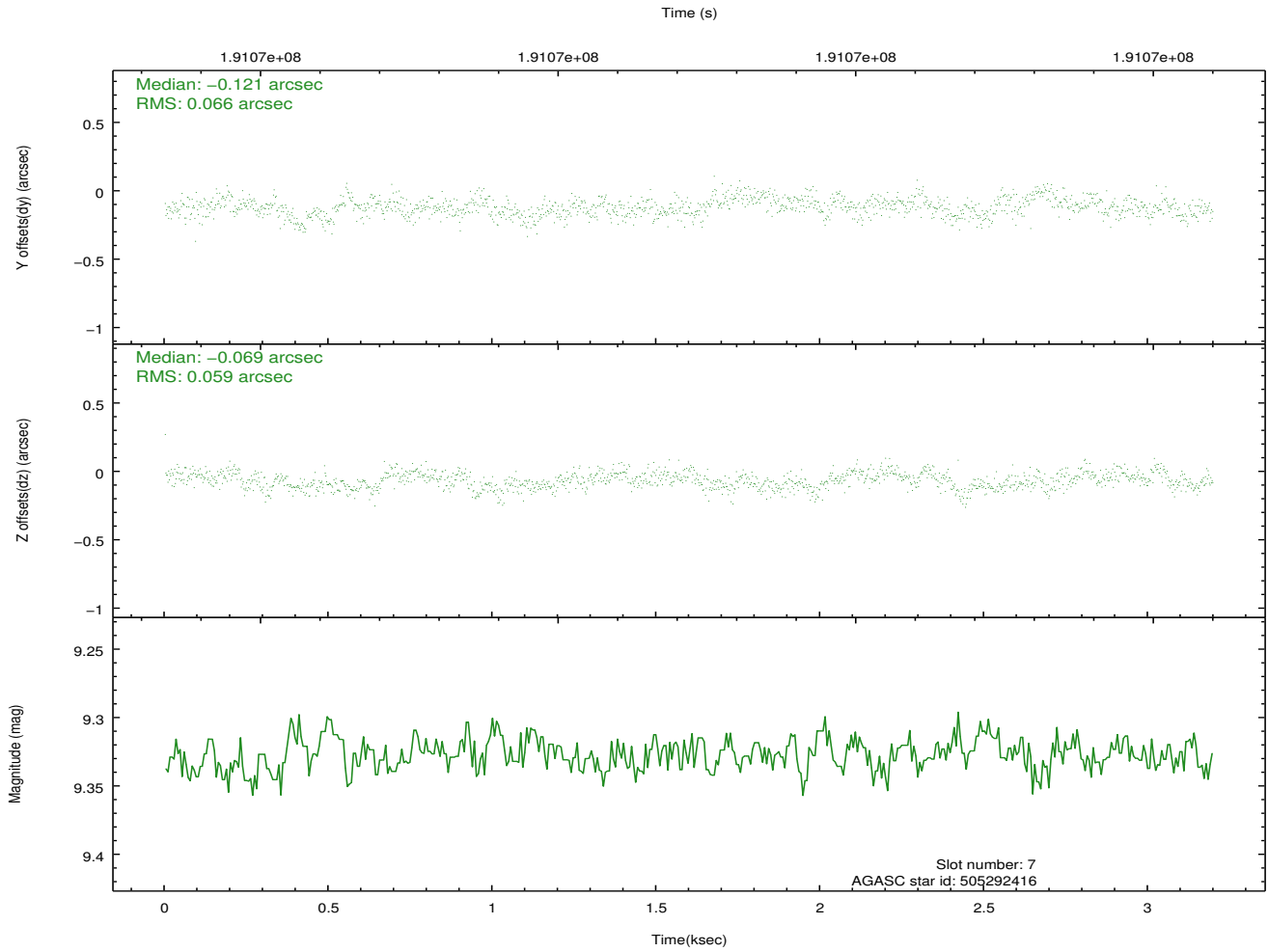
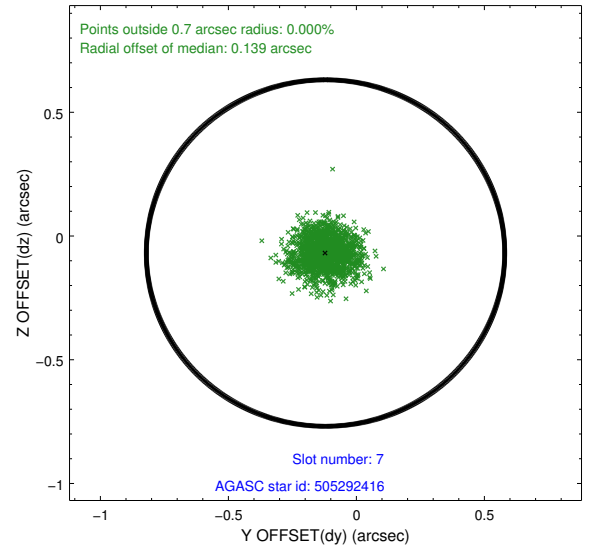
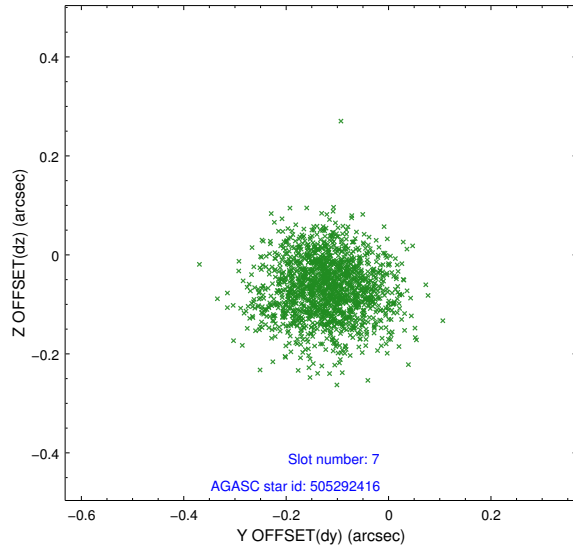
2.4.3 Slot 5



2.4.4 Slot 6

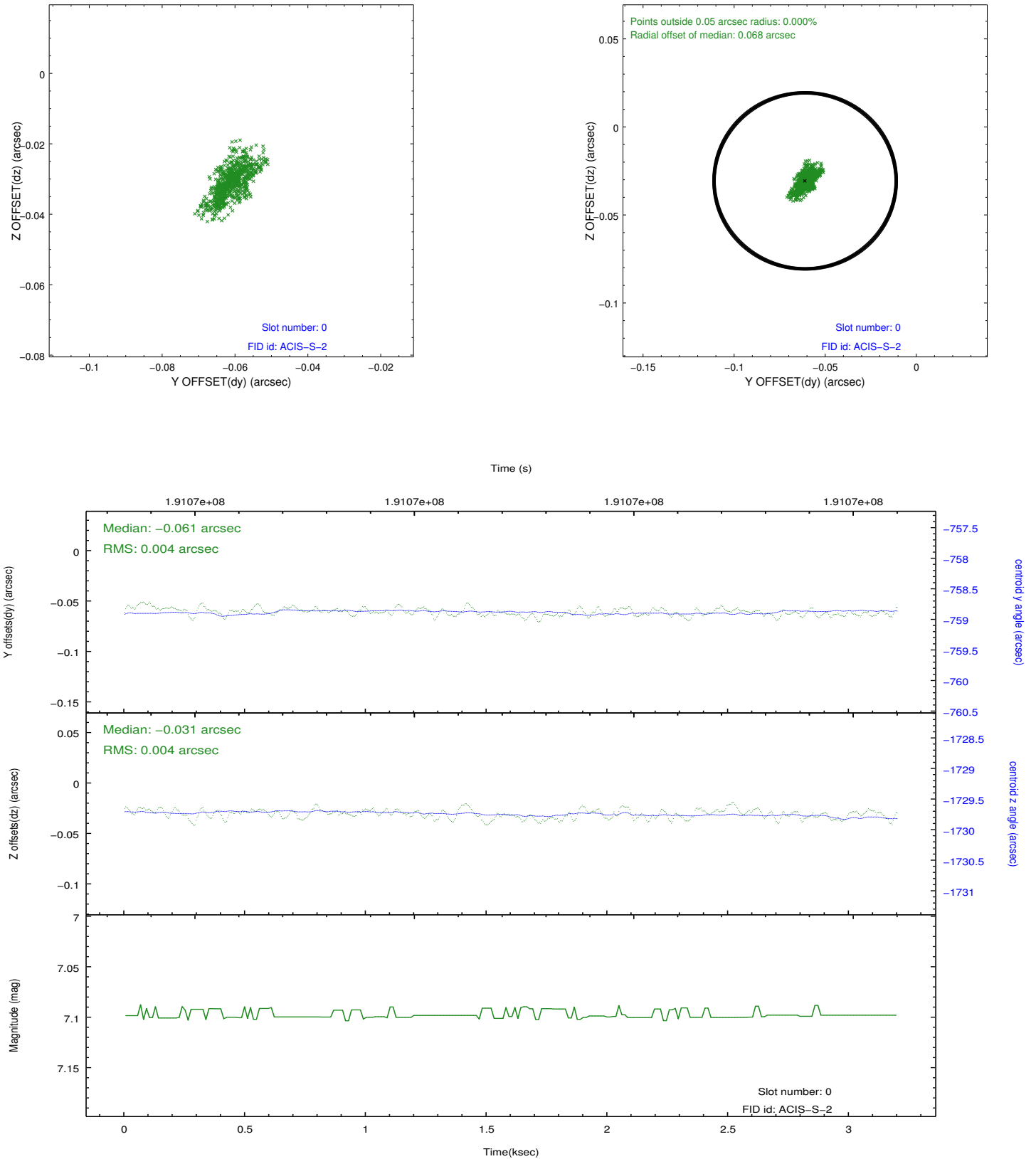


2.4.5 Slot 7

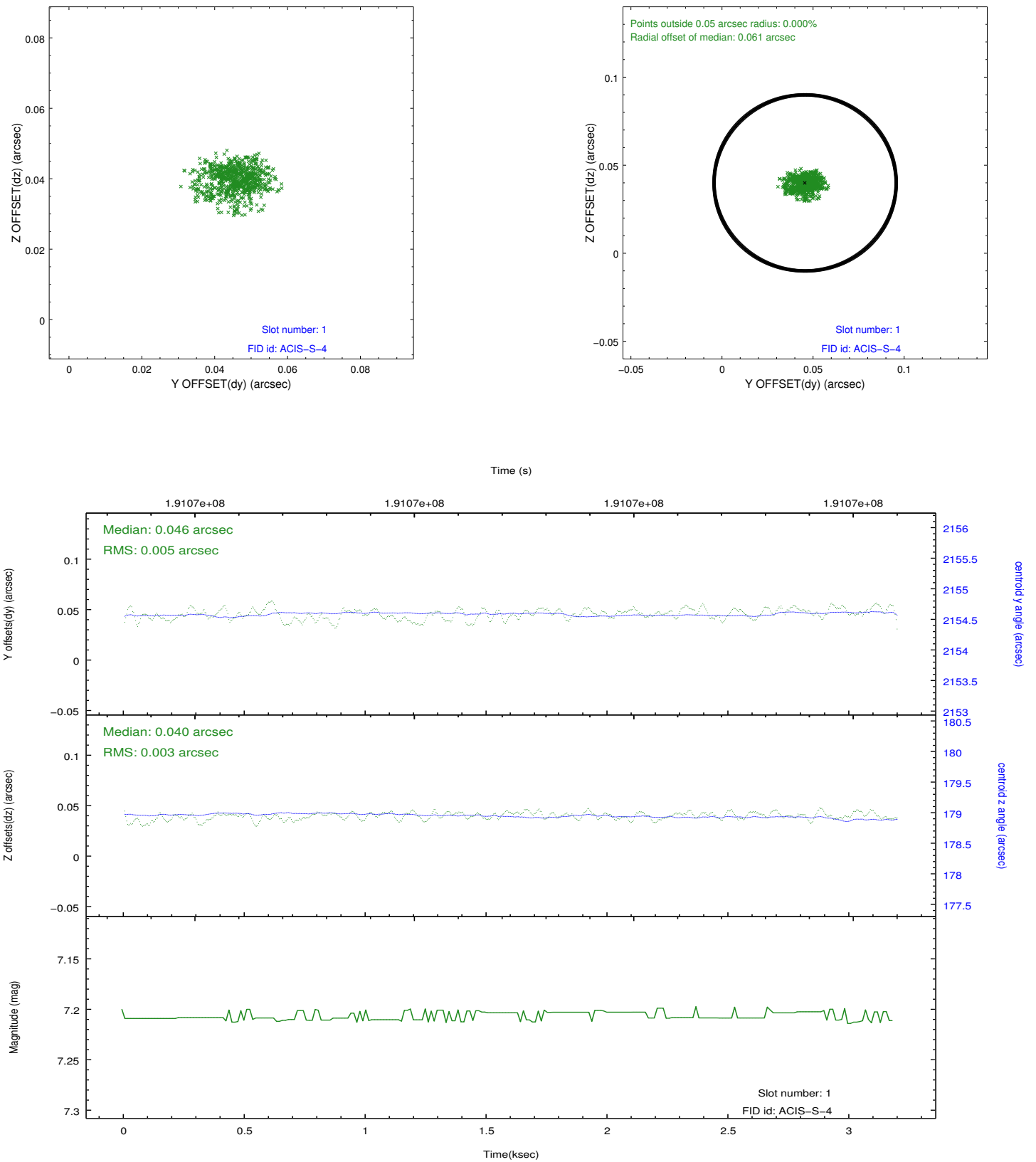


2.5 FID Slots

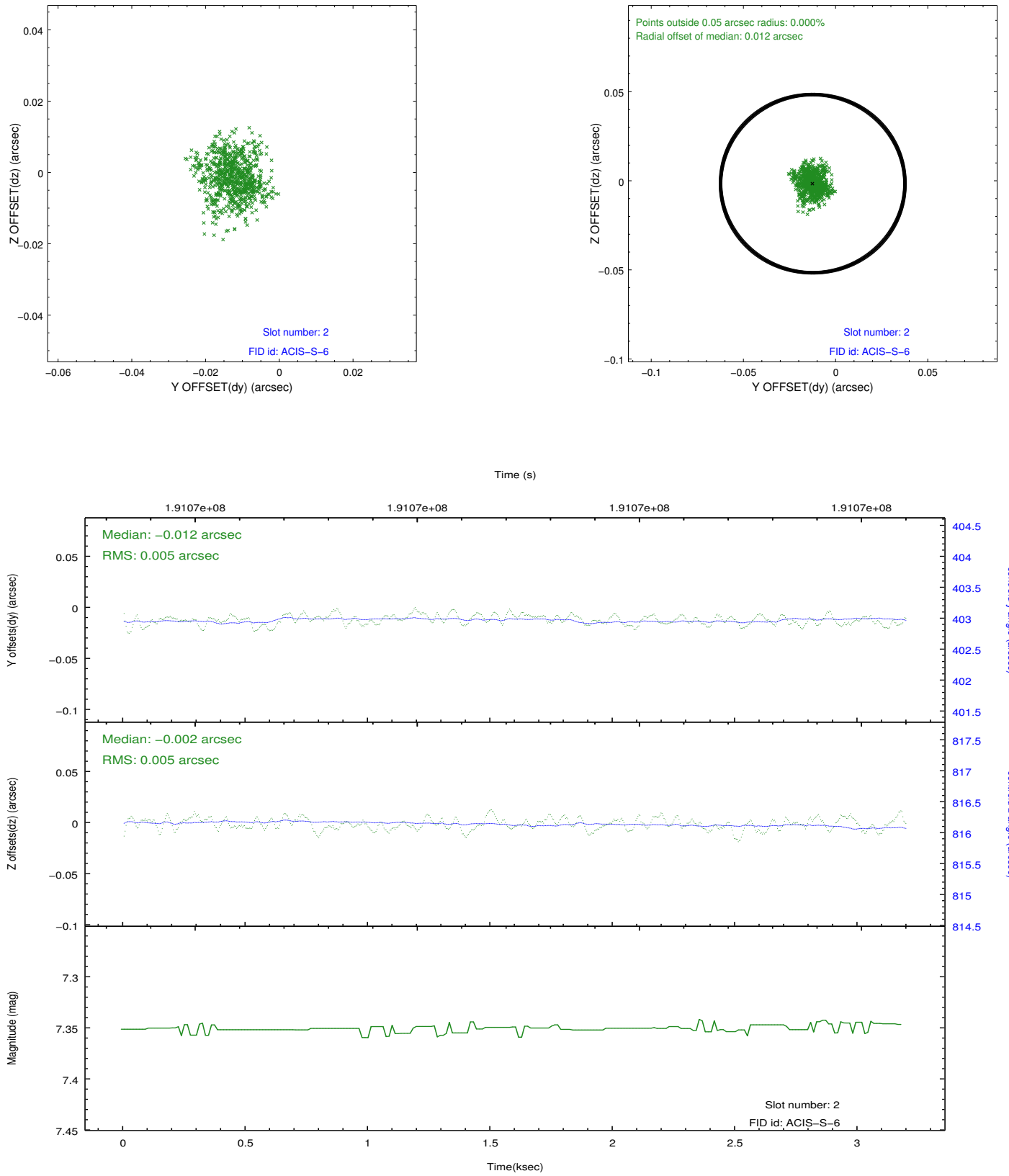
2.5.1 Slot 0



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)	2013.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.231

A.2 Comments

Charge time for this ObsId remains at previous value of 3.231 ks, although with the current processing the charge time would have been 3.13 ksec.

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This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2004:021:12:03:33 UT. Due to a high radiation environment, the instruments were safed and the observation terminated early. This observation has been reprocessed so that the aspect solution correctly handles the instrument safing and maneuver activities at the end of the observation.