

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8047 - L2 Version 2
Chandra X-Ray Center

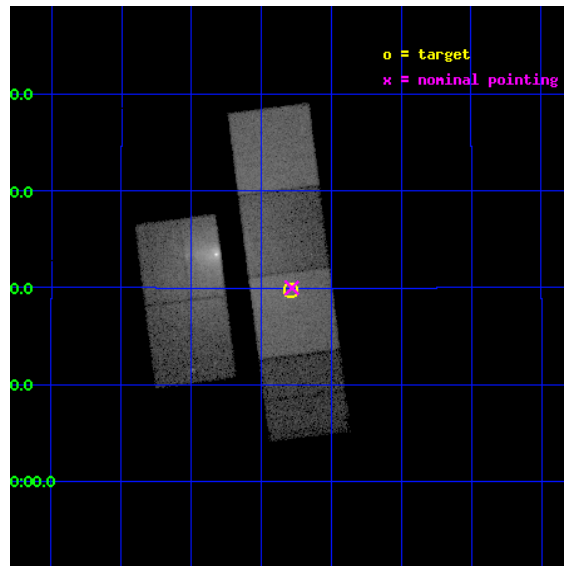
L2 Processing Date : May 9 2012

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1 Front

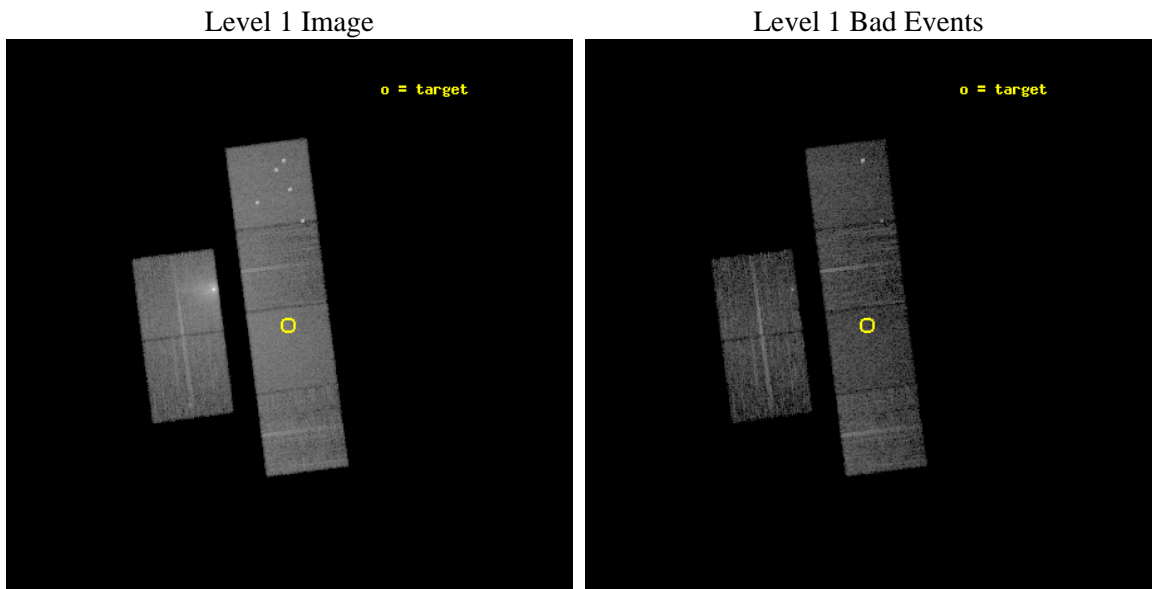
seq_num	900588	Sequence number
obs_id	8047	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1279	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.5725	Observer's specified target RA [deg]
dec_targ	12.328861	Observer's specified target Dec [deg]
ra_nom	187.57040969472	Nominal RA [deg]
dec_nom	12.333406231295	Nominal Dec [deg]
roll_nom	82.681975302514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4956.7999815941	Sum of GTIs [s]
livetime	4894.0339956005	Livetime [s]
ontime2	4956.7999815941	Sum of GTIs [s]
ontime3	4956.7999815941	Sum of GTIs [s]
ontime5	4956.7999815941	Sum of GTIs [s]
ontime6	4956.7999815941	Sum of GTIs [s]
ontime7	4956.7999815941	Sum of GTIs [s]
ontime8	4953.5589612126	Sum of GTIs [s]
l2events	227018	Number of level 2 events



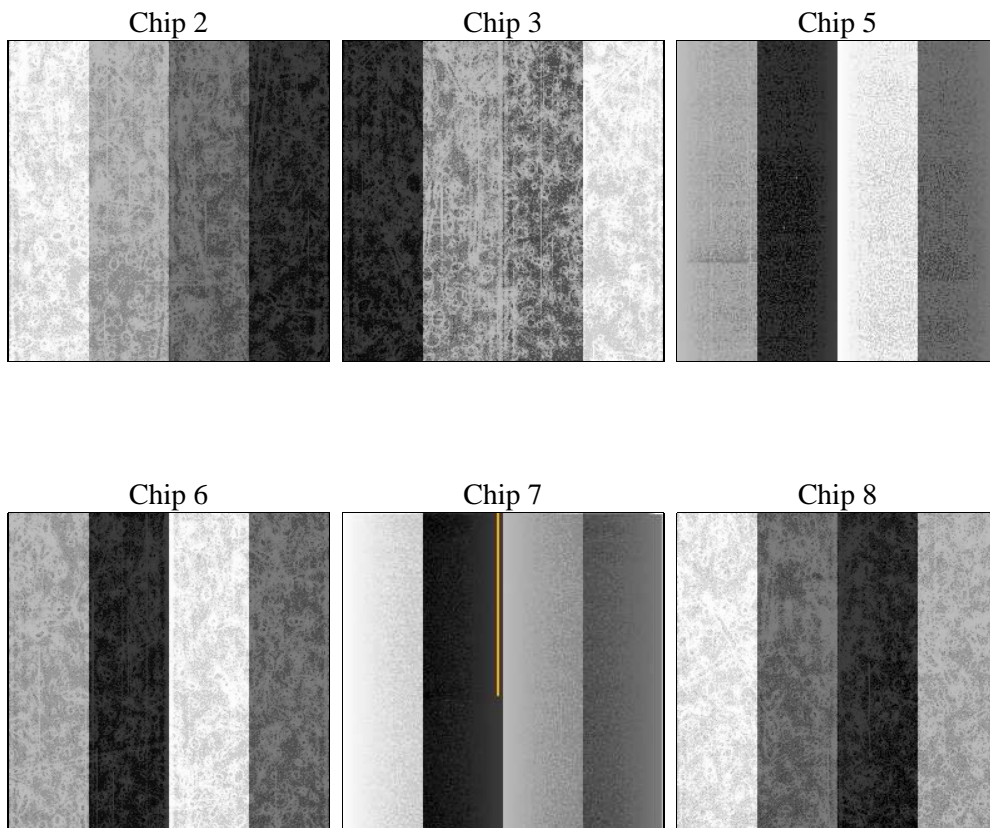
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4956.7999815941	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	4956.7999815941	Sum of GTIs [s]
date	2012-05-09T18:25:16	Date and time of file creation	ontime3	4956.7999815941	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4956.7999815941	Sum of GTIs [s]
			ontime6	4956.7999815941	Sum of GTIs [s]
			ontime7	4956.7999815941	Sum of GTIs [s]
			ontime8	4953.5589612126	Sum of GTIs [s]
			l1events	509181	Number of level 1 events

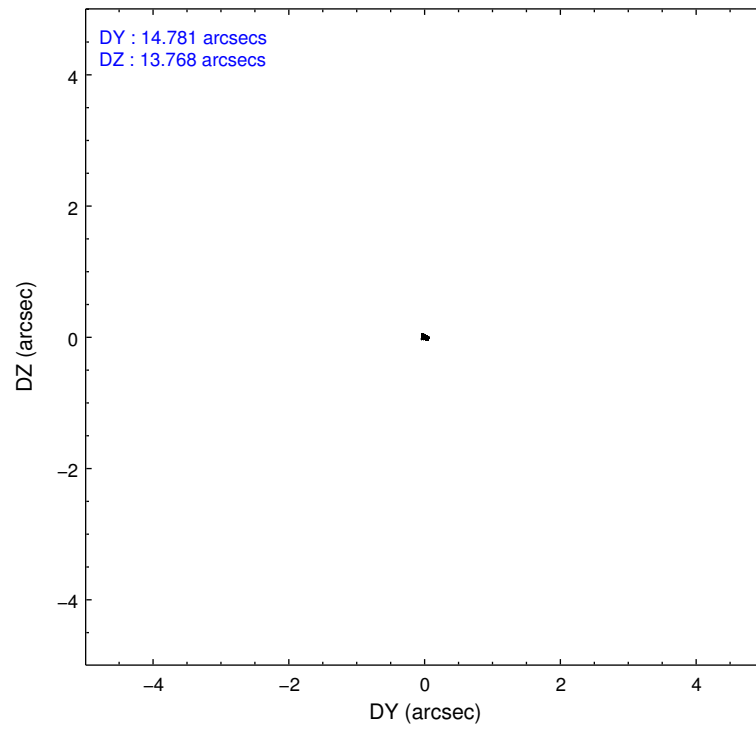
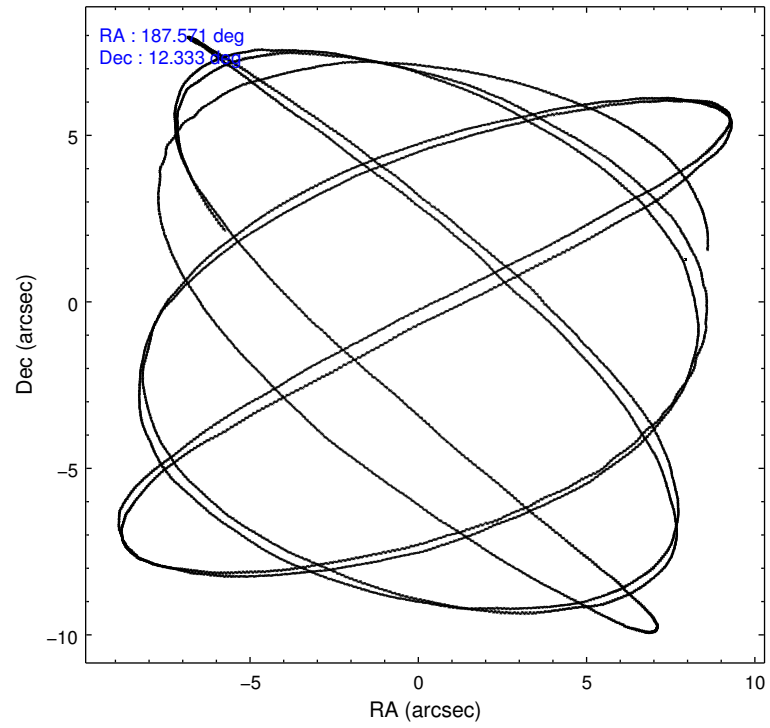
2.1.4 Events

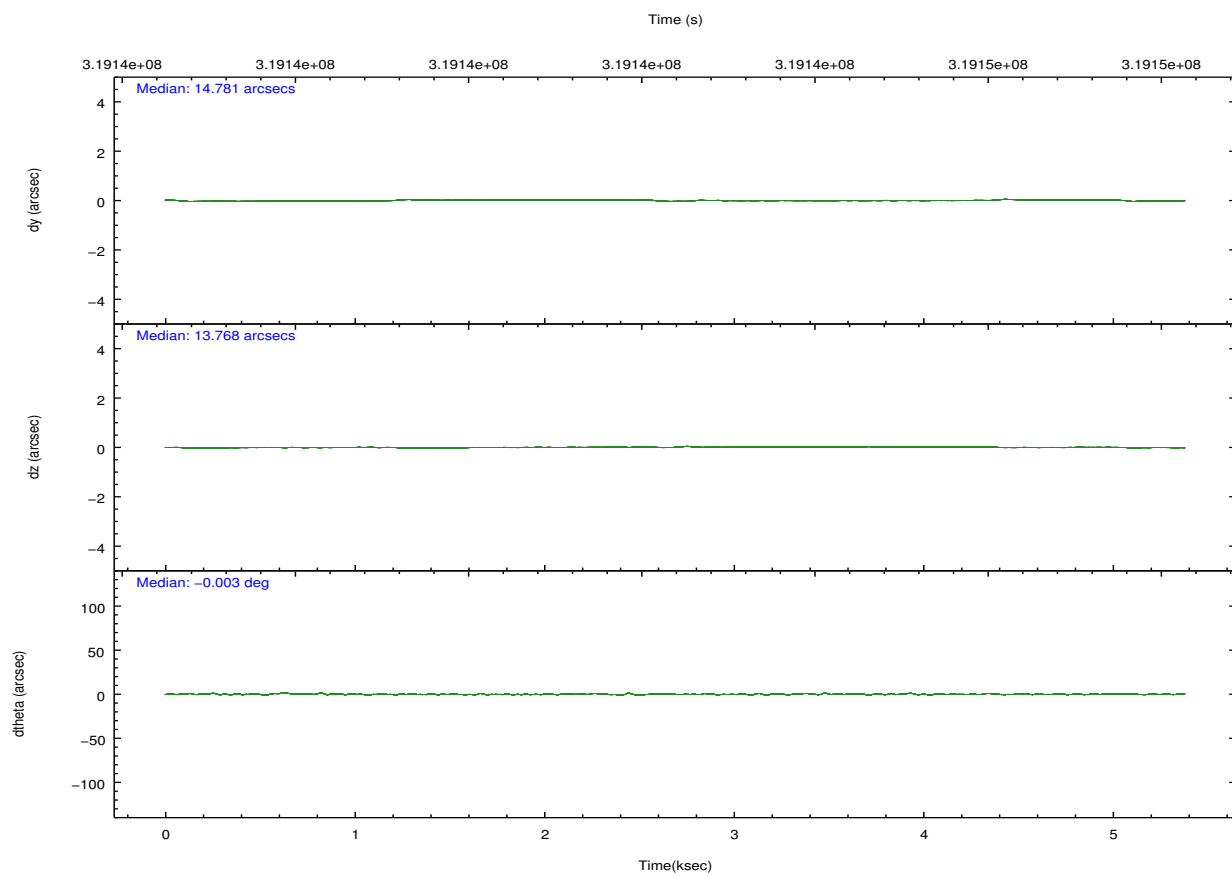
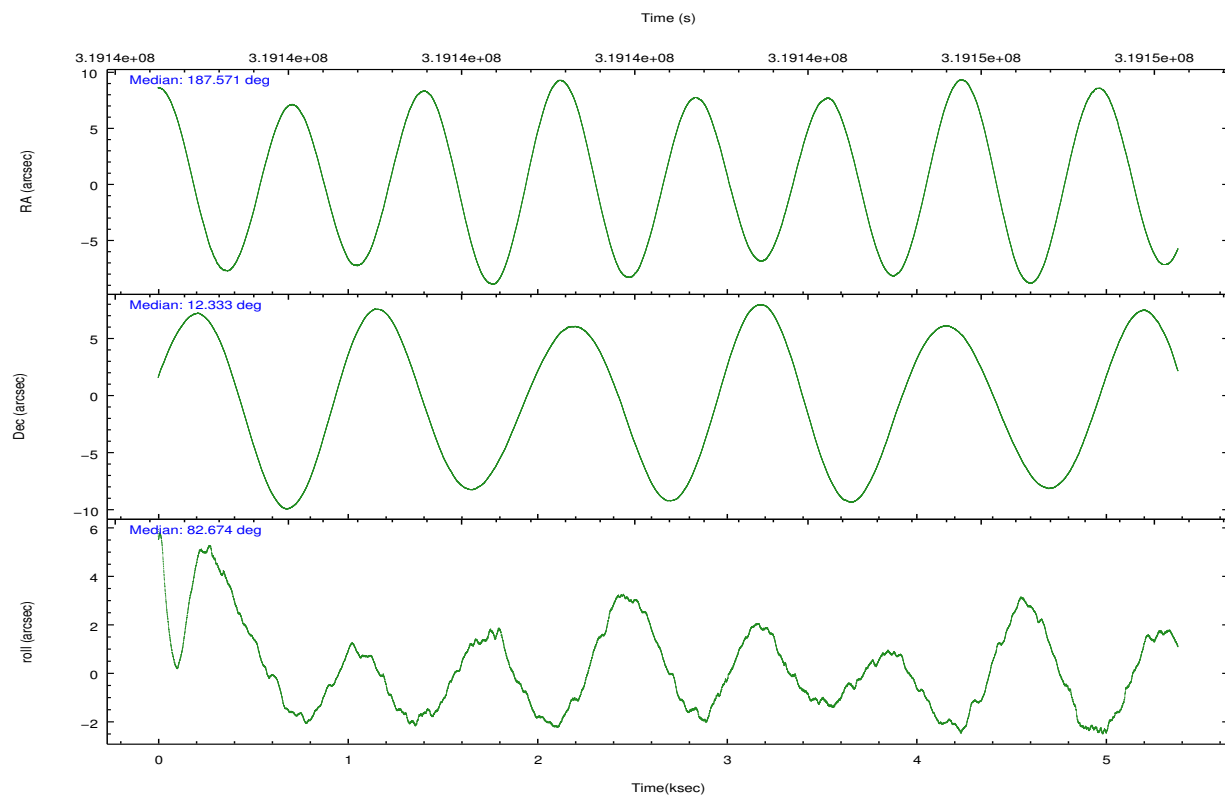
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	117030	62409	96480	74073	88451	70738	grade 0 events	58941	15966	12862	24405	9695	8989
rejected events	44211	40436	41751	41560	38107	51305		50%	25%	13%	32%	10%	12%
rejected %	37%	64%	43%	56%	43%	72%	grade 1 events	507	143	110	148	78	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	7232	2645	15087	3906	11634	3615
								6%	4%	15%	5%	13%	5%
							grade 3 events	2265	1051	2575	1205	4866	1637
								1%	1%	2%	1%	5%	2%
							grade 4 events	2338	957	2530	1218	4800	1465
								1%	1%	2%	1%	5%	2%
							grade 5 events	2166	2297	5410	2267	6073	2949
								1%	3%	5%	3%	6%	4%
							grade 6 events	2085	1364	21709	1806	19385	3744
								1%	2%	22%	2%	21%	5%
							grade 7 events	41496	37986	36197	39118	31920	48250
								35%	60%	37%	52%	36%	68%

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	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	187.581597	187.5704096947225	CCD I2 on	O1	Y
[deg] Pointing Dec	12.308202	12.33340623129499	CCD I3 on	O2	Y
[deg] Pointing Roll	82.522955	82.68197530251395	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	319141682.184000	319141274.35282	CCD S5 on	N	N
Observation start date	2008-02-11T18:26:57	2008-02-11T18:21:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319146882.184000	319147030.7531	On-chip summing requested	N	N
Observation end date	2008-02-11T19:53:37	2008-02-11T19:57:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



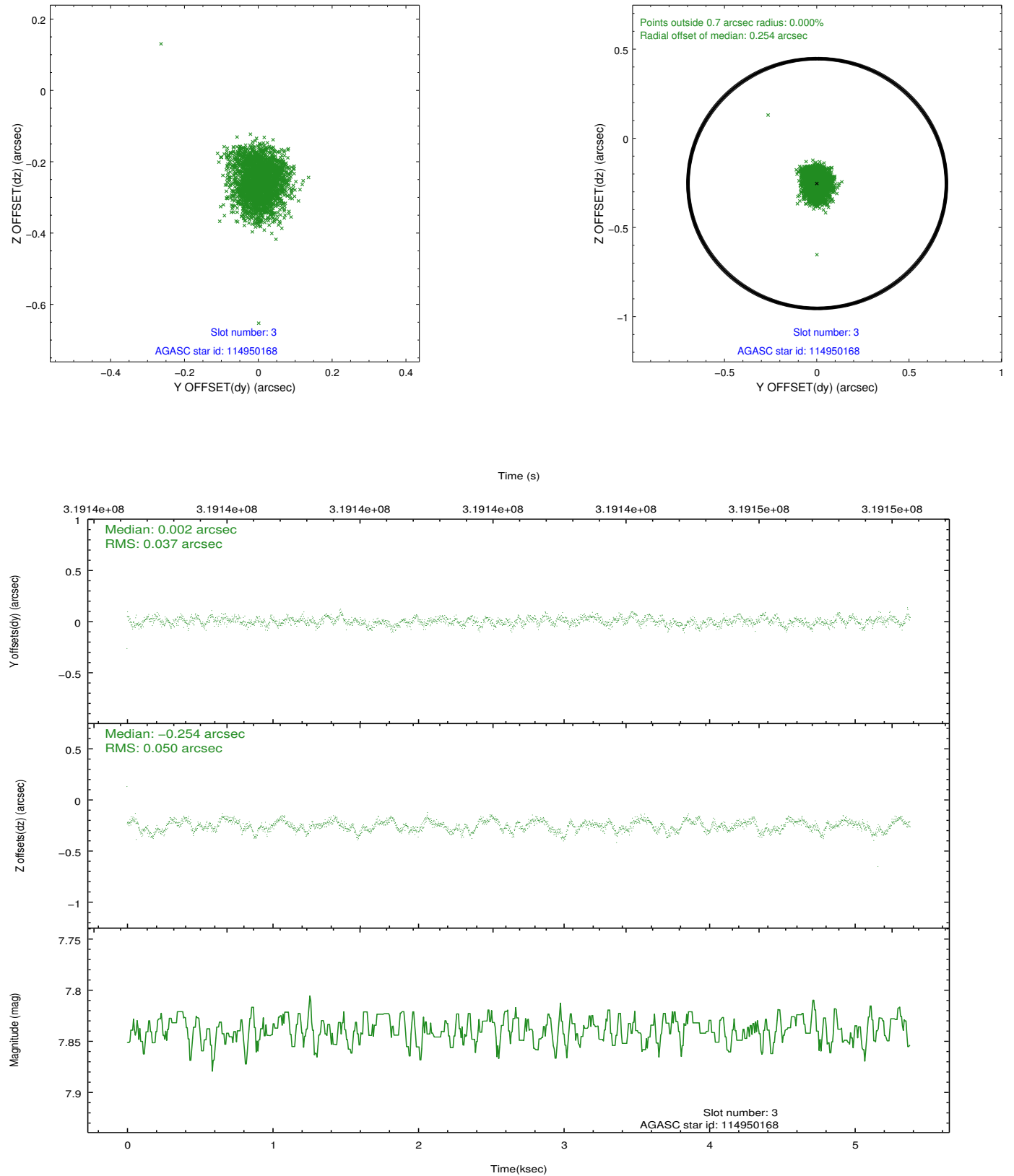


Slot Statistics

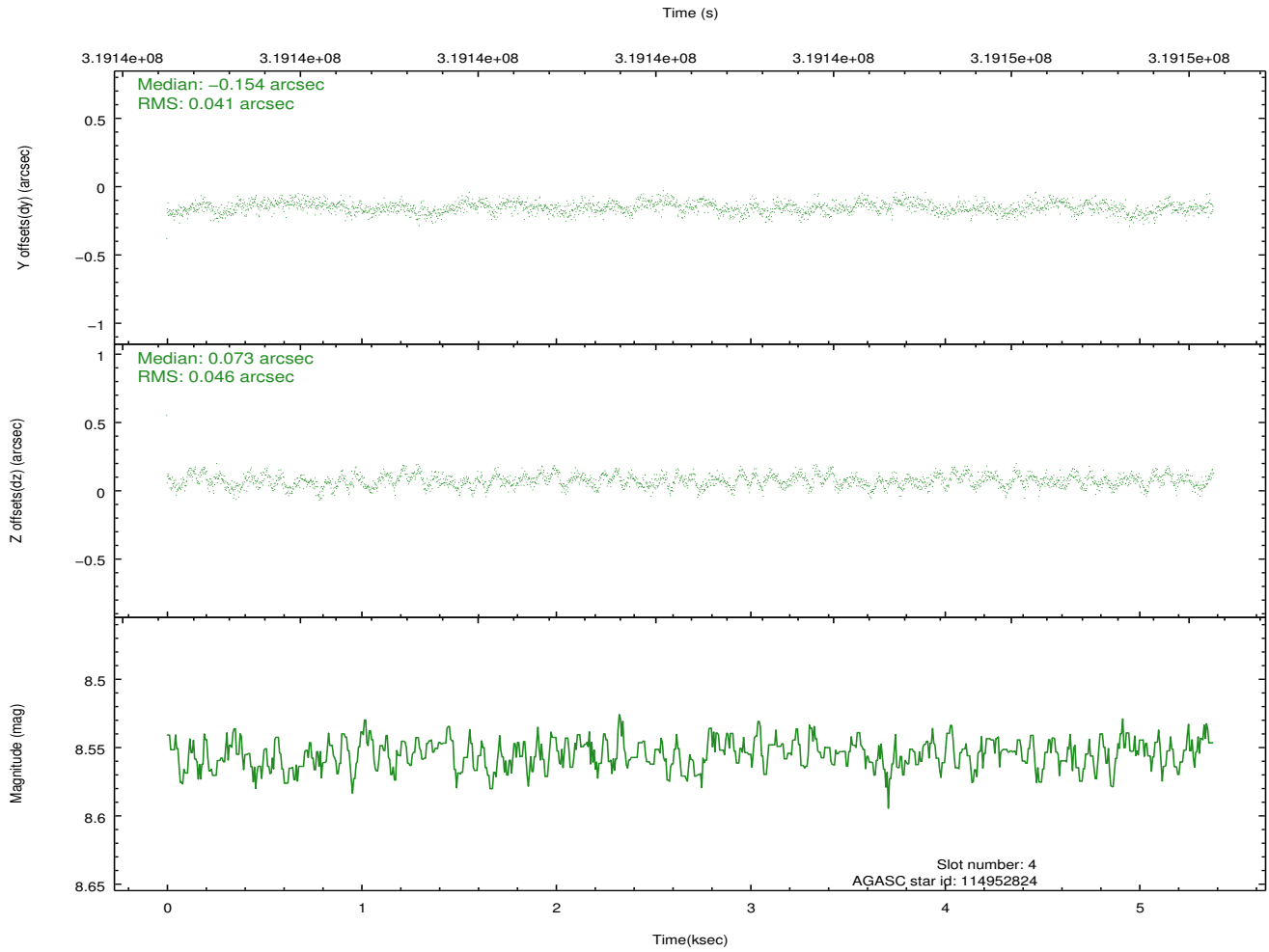
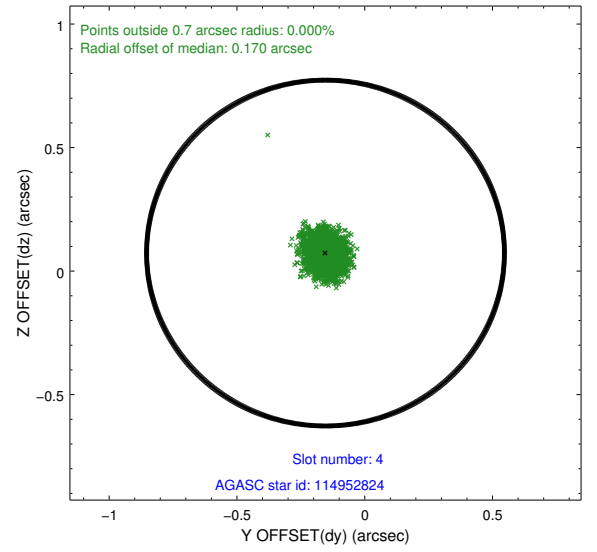
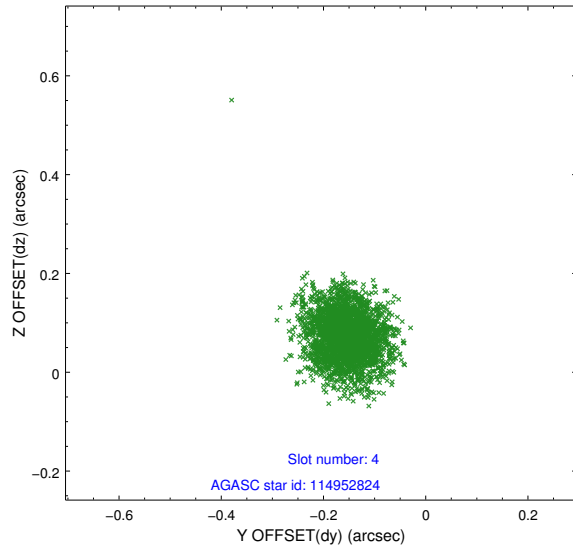
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1313	-0.119	-0.072	0.005	0.009	0.000000	0.000000	-767.90	-1735.12
1	FID	ACIS-S-4	7.19	1313	0.119	0.071	0.006	0.009	0.000000	0.000000	2145.14	172.29
2	FID	ACIS-S-6	7.33	1313	-0.027	0.008	0.006	0.011	0.000000	0.000000	395.66	810.93
3	GUIDE	114950168	7.84	2626	0.002	-0.254	0.065	0.104	187.143398	12.117441	-881.00	1439.76
4	GUIDE	114952824	8.55	2626	-0.154	0.073	0.066	0.106	187.703904	12.486727	692.45	-341.44
5	GUIDE	114955056	8.33	2626	0.070	0.414	0.075	0.117	187.914001	12.127854	-490.55	-1243.94
6	GUIDE	114955568	7.50	2626	0.036	0.197	0.058	0.098	187.061916	11.826551	-1956.44	1589.92
7	GUIDE	114957008	8.24	2625	0.044	-0.433	0.071	0.113	186.894794	12.099160	-1059.19	2300.15

2.4 Star Slots

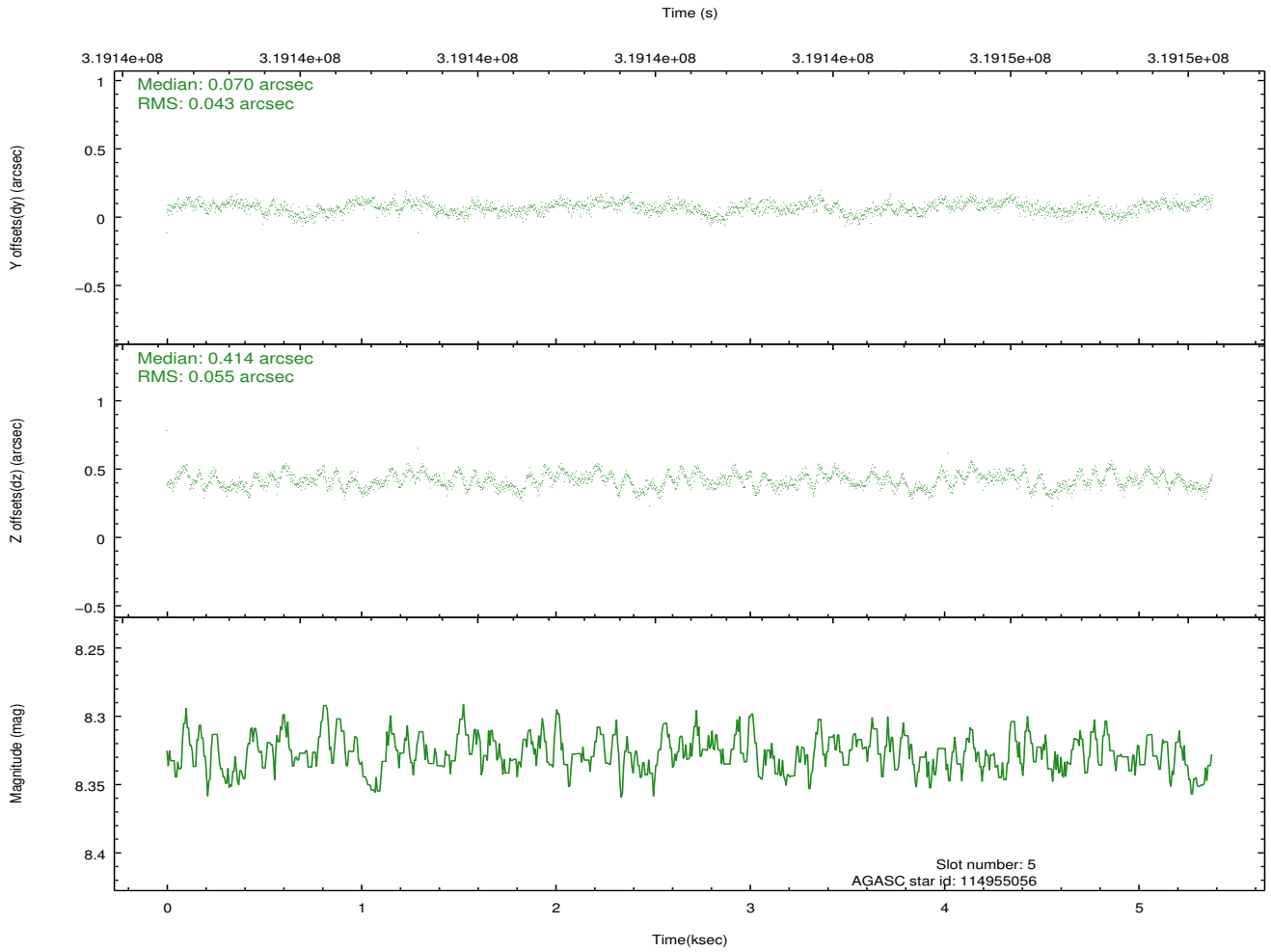
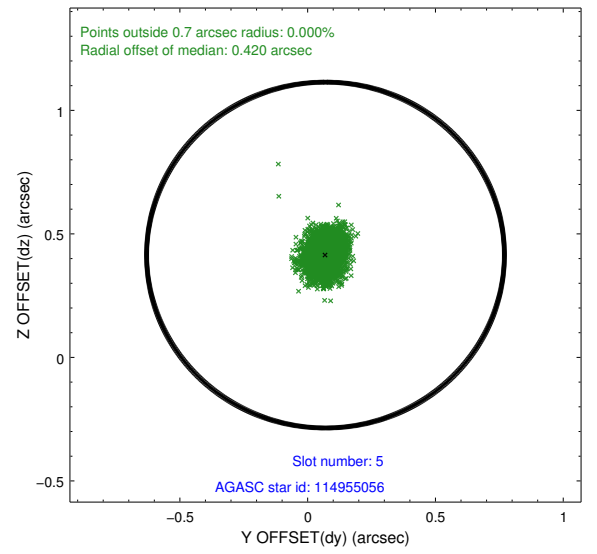
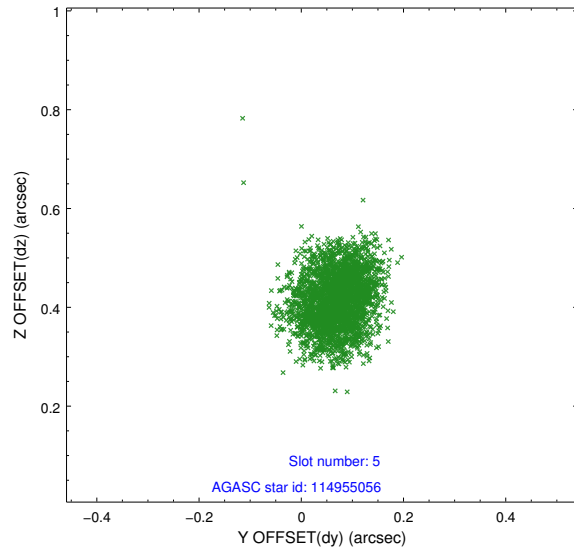
2.4.1 Slot 3



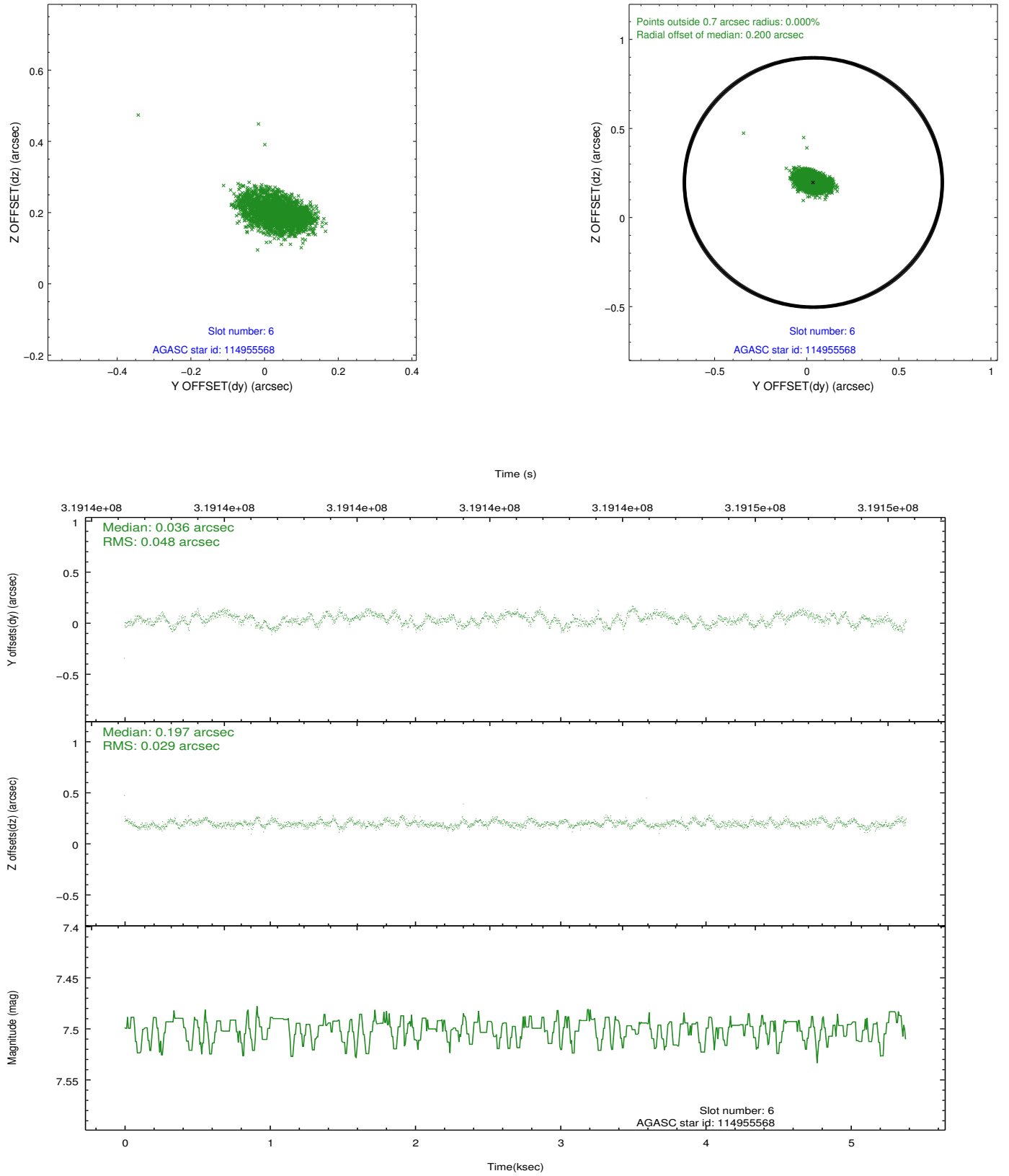
2.4.2 Slot 4



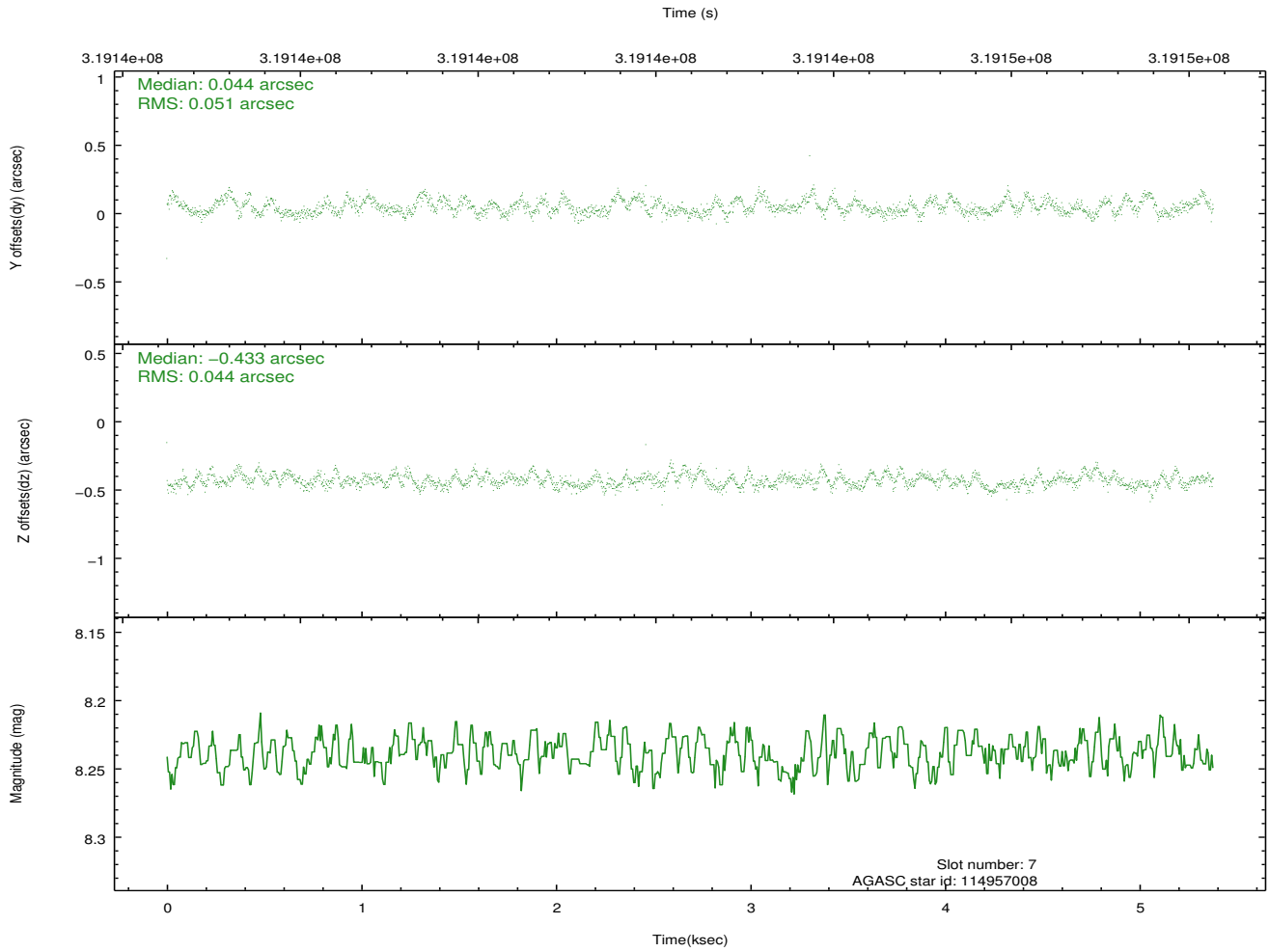
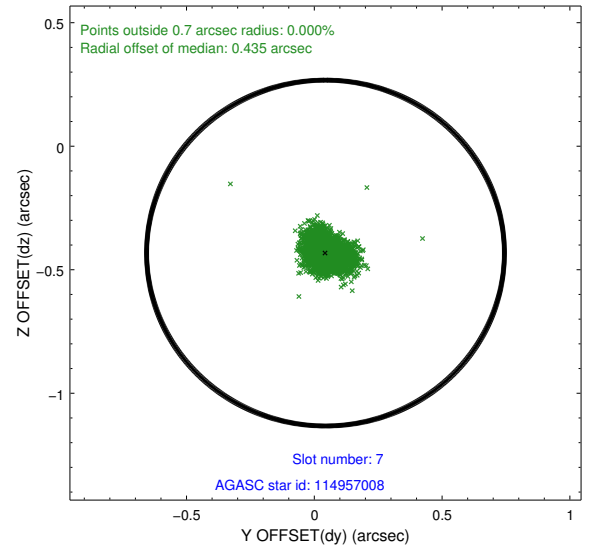
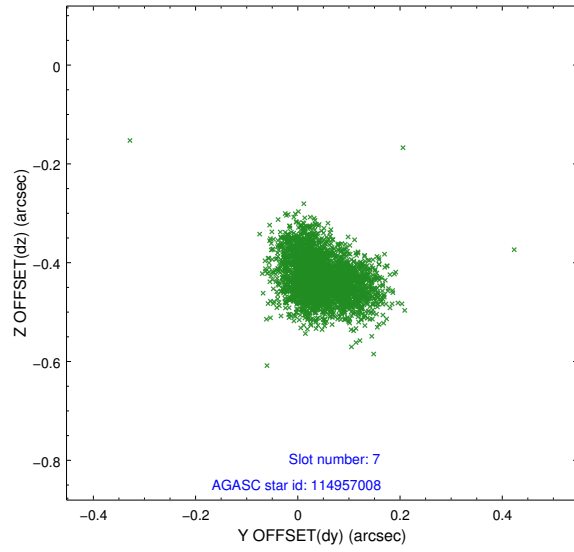
2.4.3 Slot 5



2.4.4 Slot 6

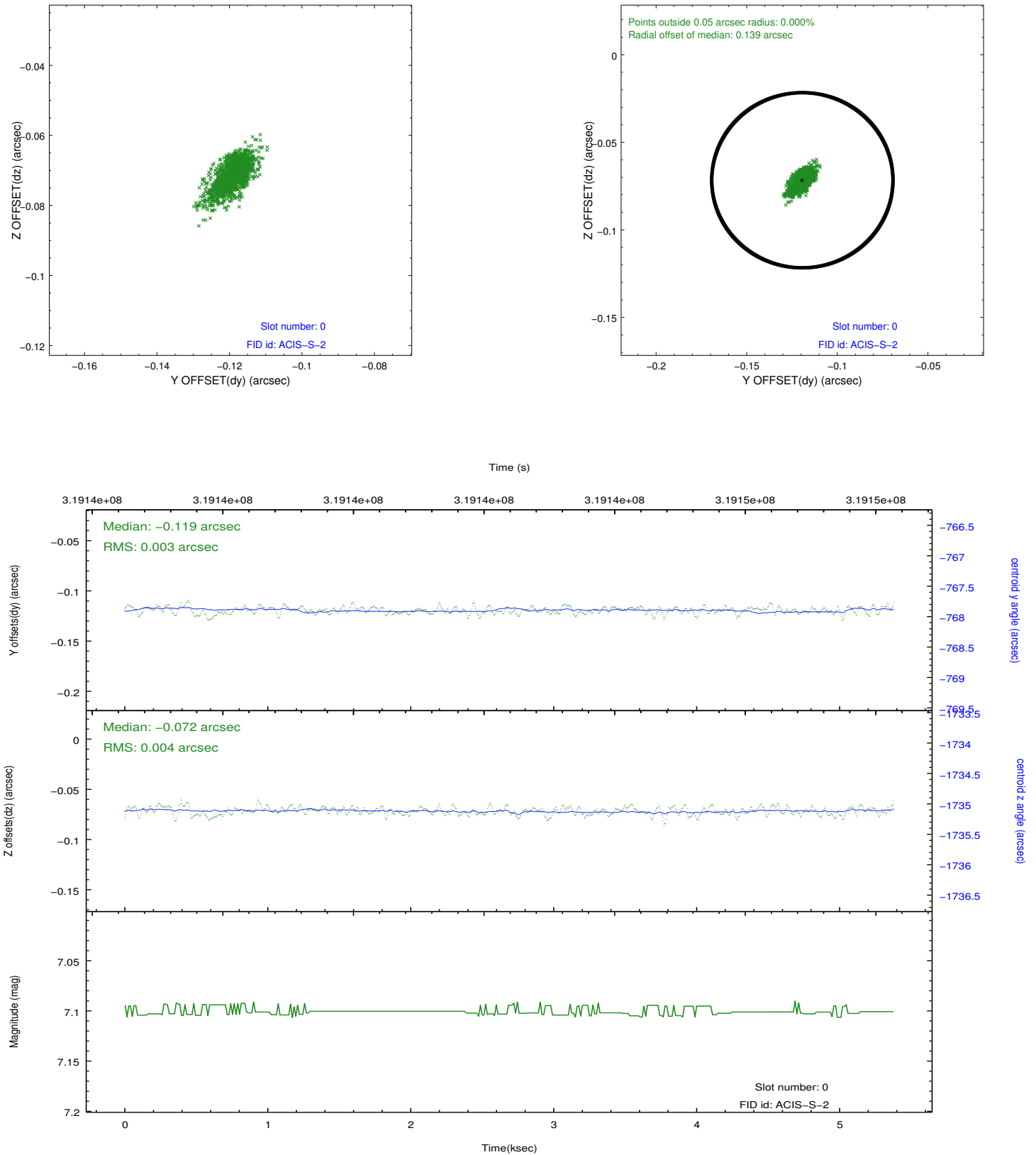


2.4.5 Slot 7

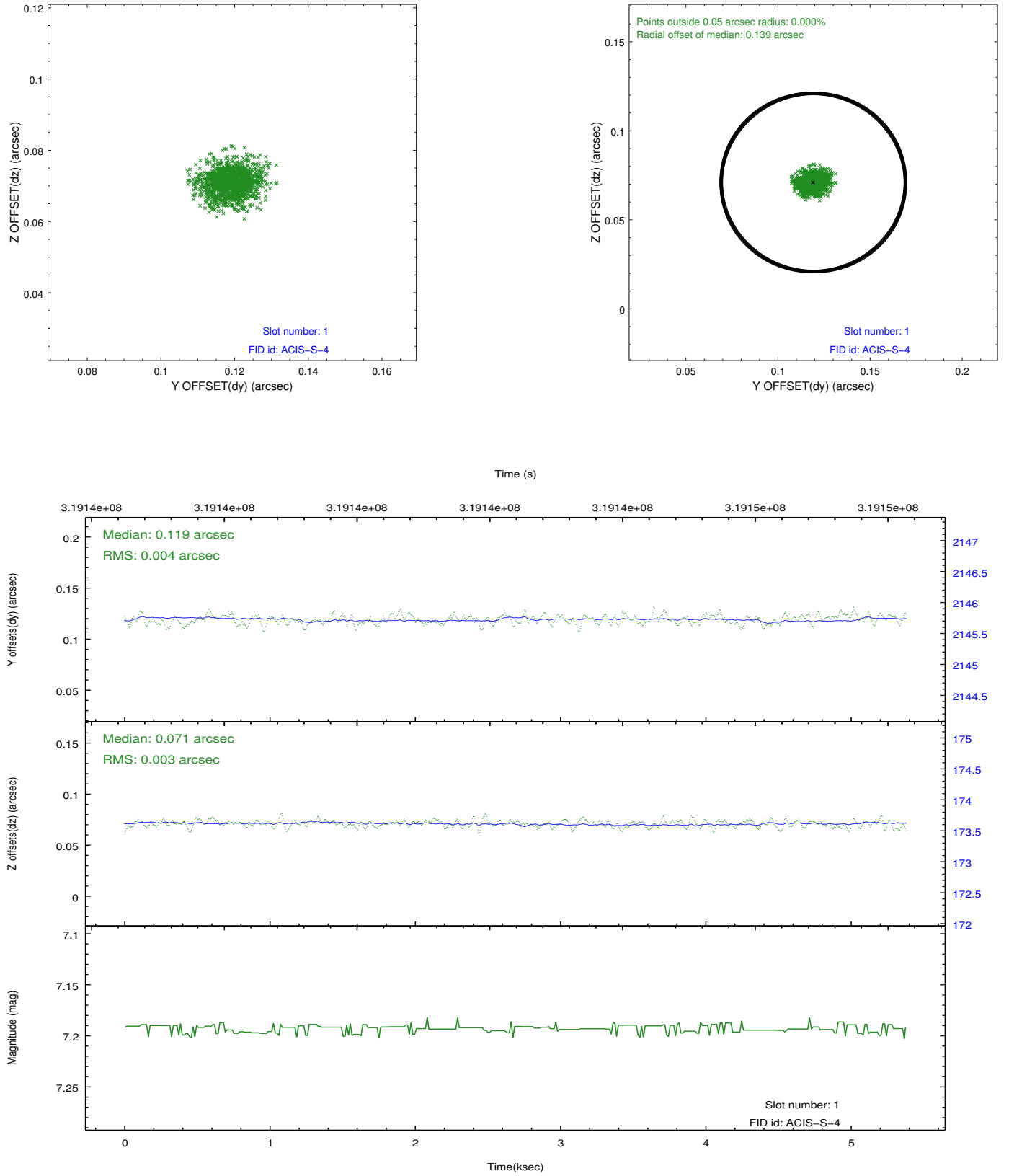


2.5 FID Slots

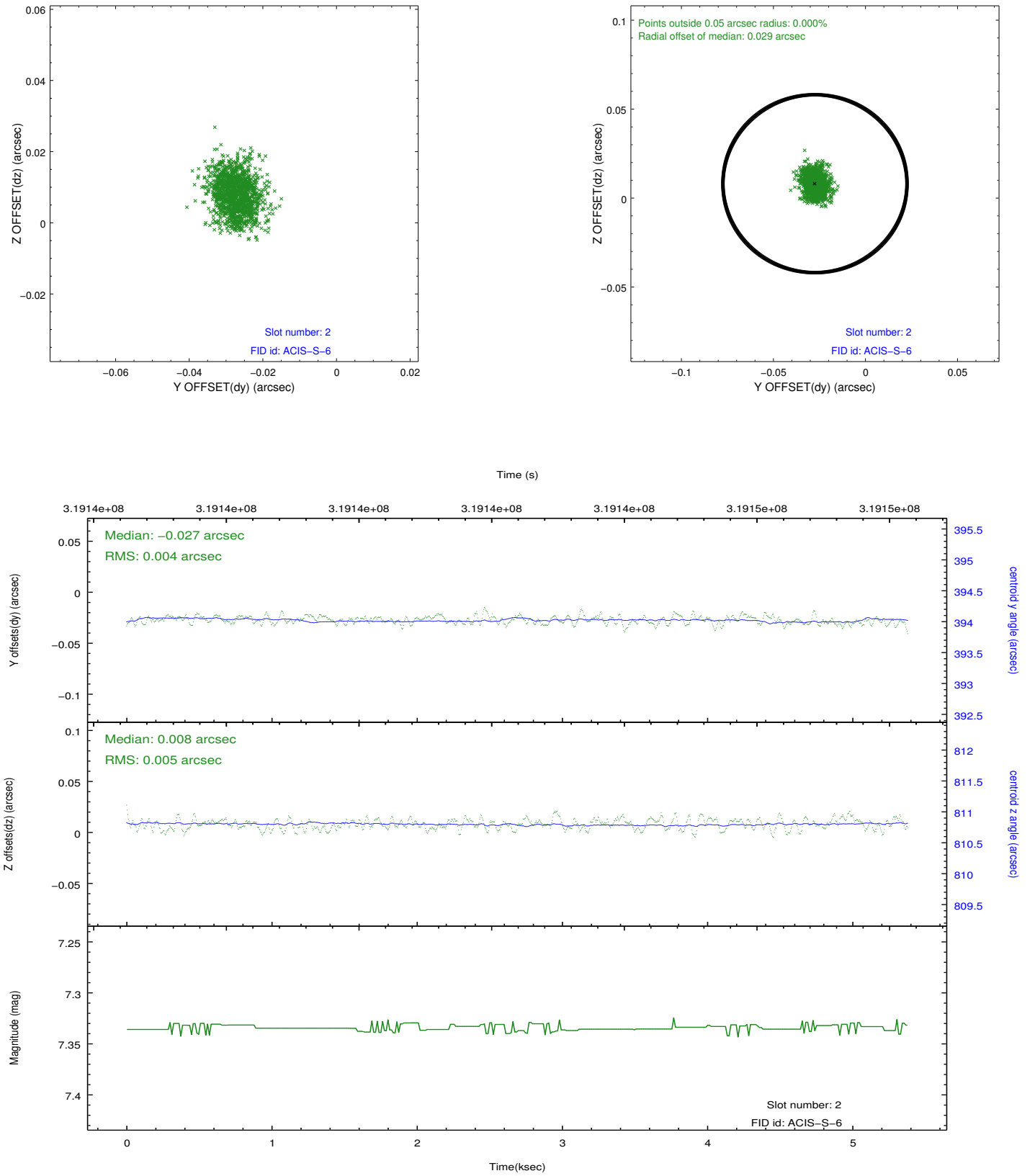
2.5.1 Slot 0



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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95679998

A.2 Comments

Coordinated with Spitzer. This observation is part of a raster scan.