

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8061 - L2 Version 2
Chandra X-Ray Center

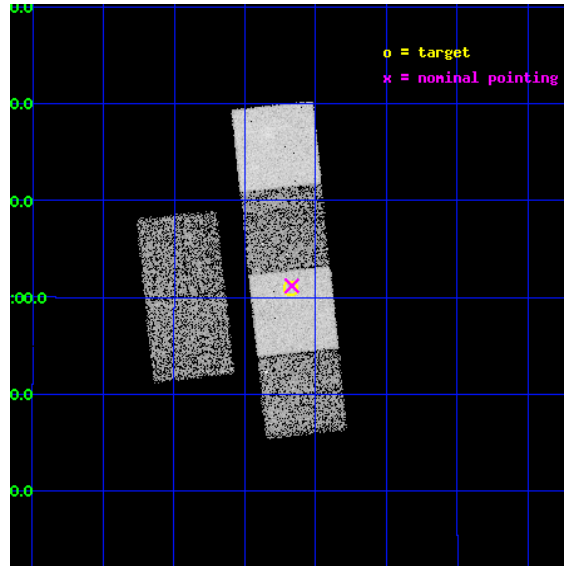
L2 Processing Date : May 10 2012

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1 Front

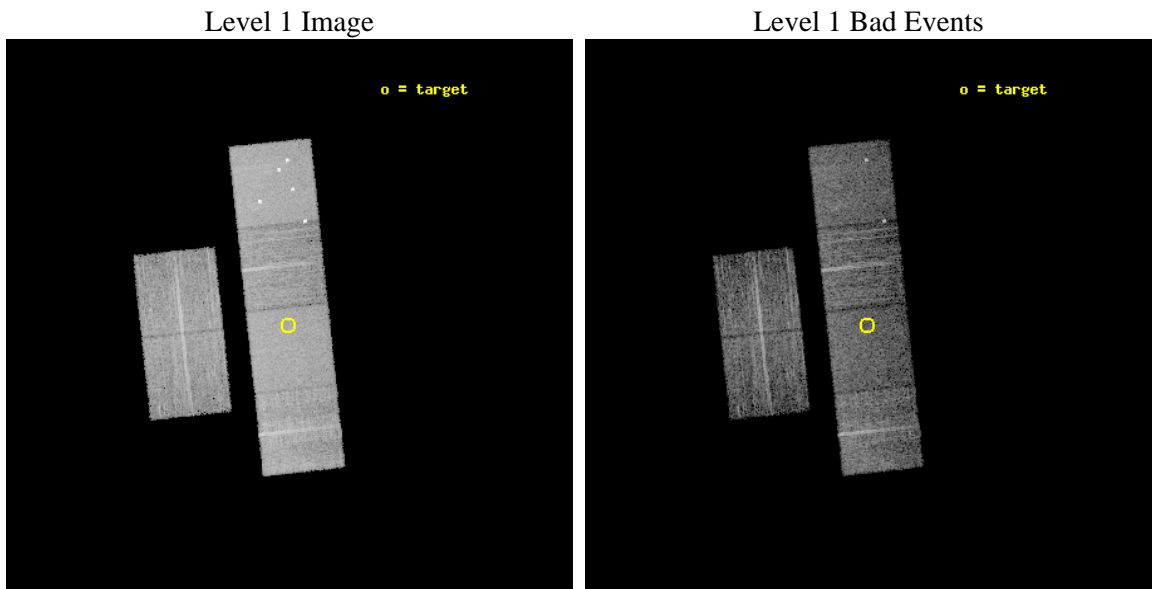
seq_num	900602	Sequence number
obs_id	8061	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1303	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.669167	Observer's specified target RA [deg]
dec_targ	9.015528	Observer's specified target Dec [deg]
ra_nom	187.66698472688	Nominal RA [deg]
dec_nom	9.0198955336932	Nominal Dec [deg]
roll_nom	83.922272416927	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5151.9179601073	Sum of GTIs [s]
l2events	82895	Number of level 2 events



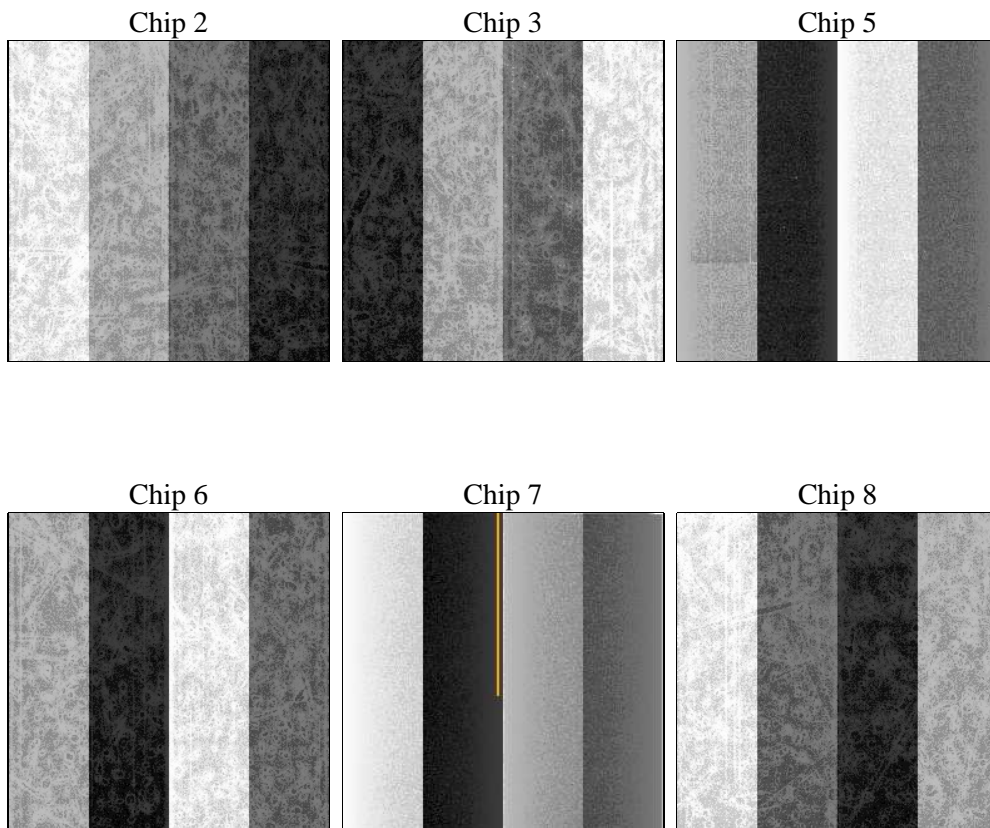
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.3999808431	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-10T07:59:13	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5151.9179601073	Sum of GTIs [s]
			l1events	370967	Number of level 1 events

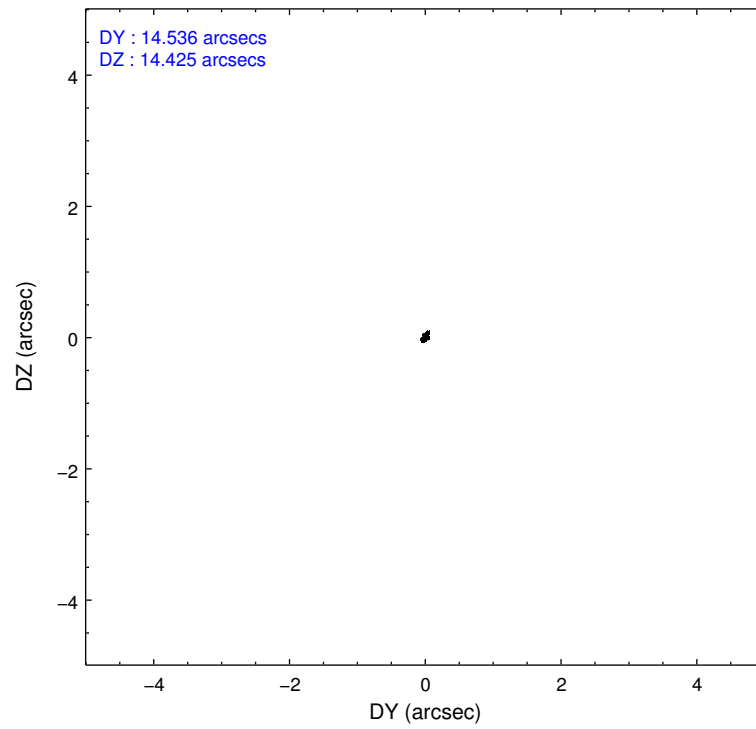
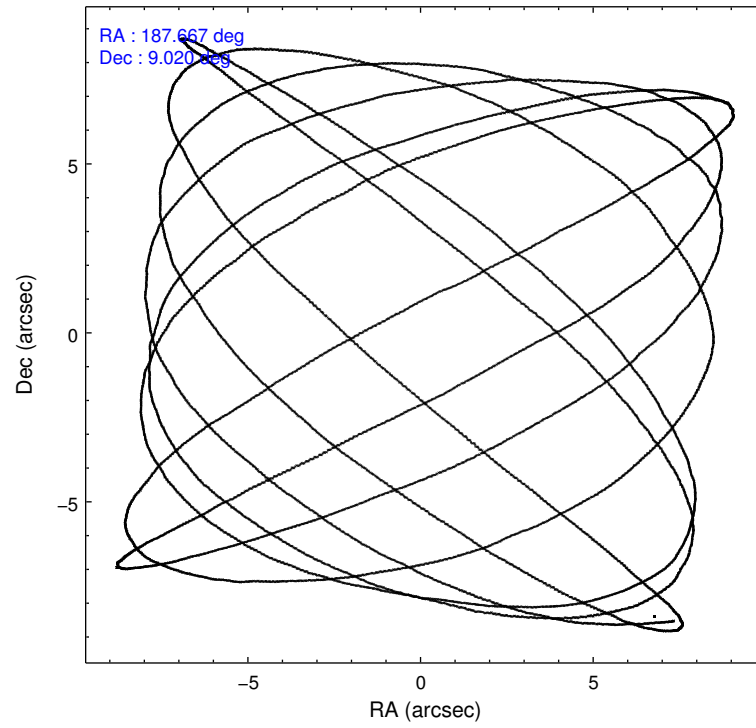
2.1.4 Events

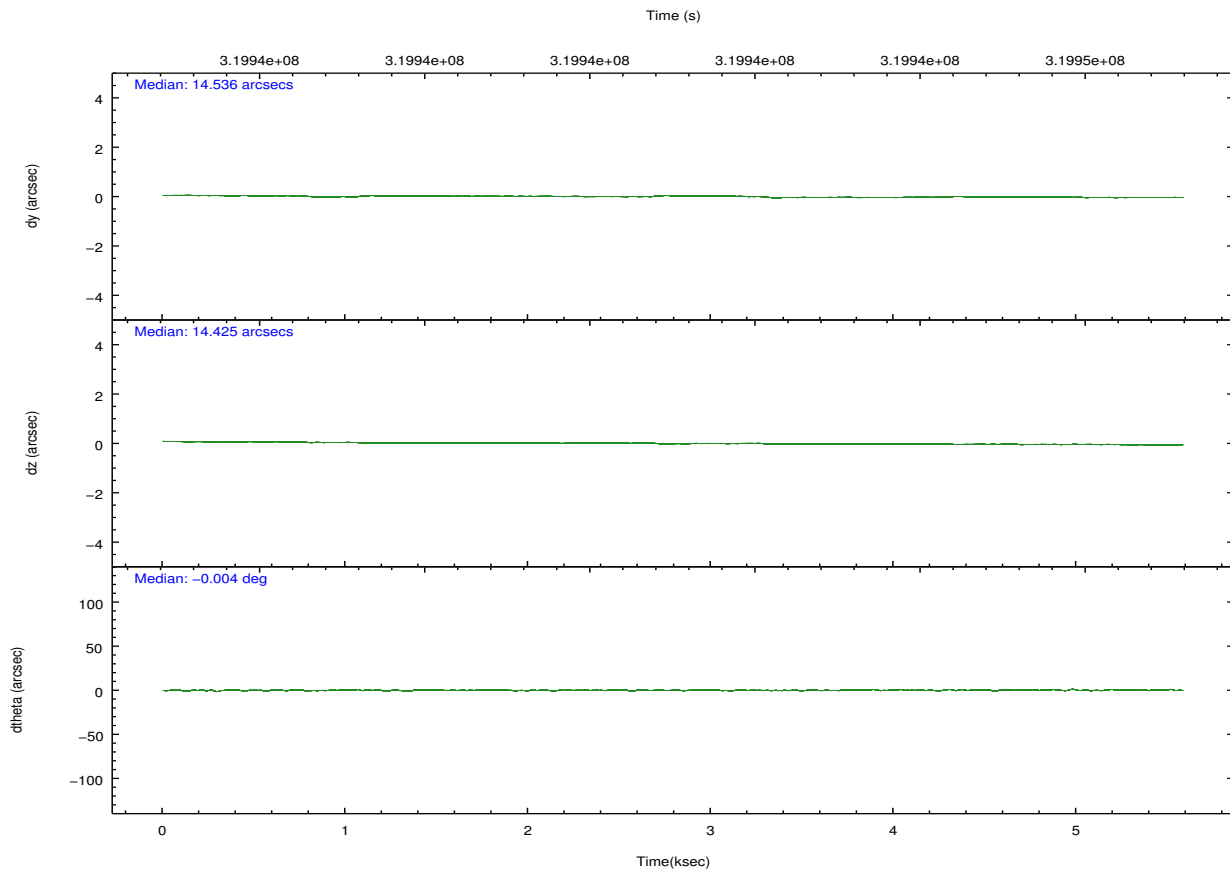
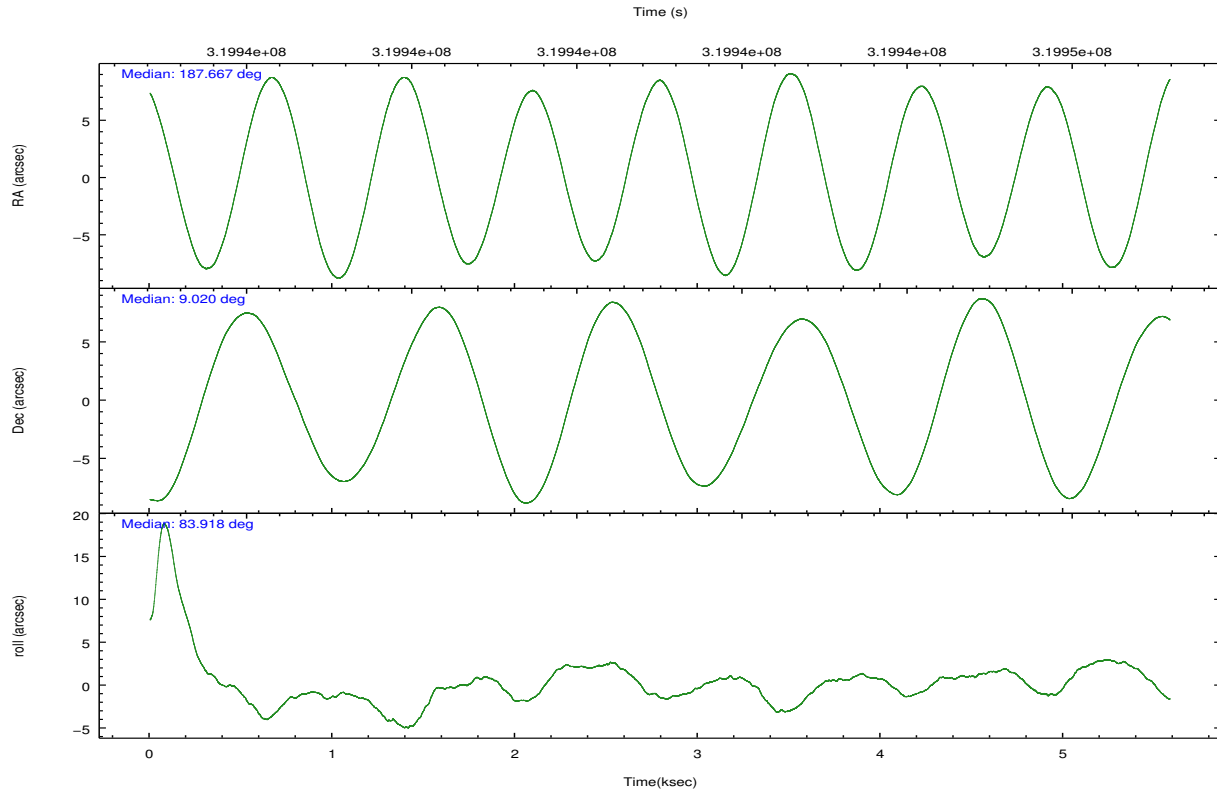
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52215	49057	82568	50317	68671	68139	grade 0 events	2430	2626	6385	2472	2439	4620
rejected events	46395	43208	42533	44089	40342	53432		4%	5%	7%	4%	3%	6%
rejected %	88%	88%	51%	87%	58%	78%	grade 1 events	28	28	225	31	89	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	1265	1126	11334	1378	5686	3350
								2%	2%	13%	2%	8%	4%
							grade 3 events	528	564	1445	571	2405	1440
								1%	1%	1%	1%	3%	2%
							grade 4 events	586	513	1350	529	2414	1412
								1%	1%	1%	1%	3%	2%
							grade 5 events	2060	2274	5740	2311	6439	3116
								3%	4%	6%	4%	9%	4%
							grade 6 events	1015	1022	19542	1282	15408	3891
								1%	2%	23%	2%	22%	5%
							grade 7 events	44303	40904	36547	41743	33791	50238
								84%	83%	44%	82%	49%	73%

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	187.678620	187.6669847268826	CCD I2 on	O1	Y
[deg] Pointing Dec	8.995063	9.019895533693234	CCD I3 on	O2	Y
[deg] Pointing Roll	83.763808	83.92227241692684	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)	319940893.184000	319940480.72911	CCD S5 on	N	N
Observation start date	2008-02-21T00:27:08	2008-02-21T00:21:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319946293.184000	319946556.92941	On-chip summing requested	N	N
Observation end date	2008-02-21T01:57:08	2008-02-21T02:02:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



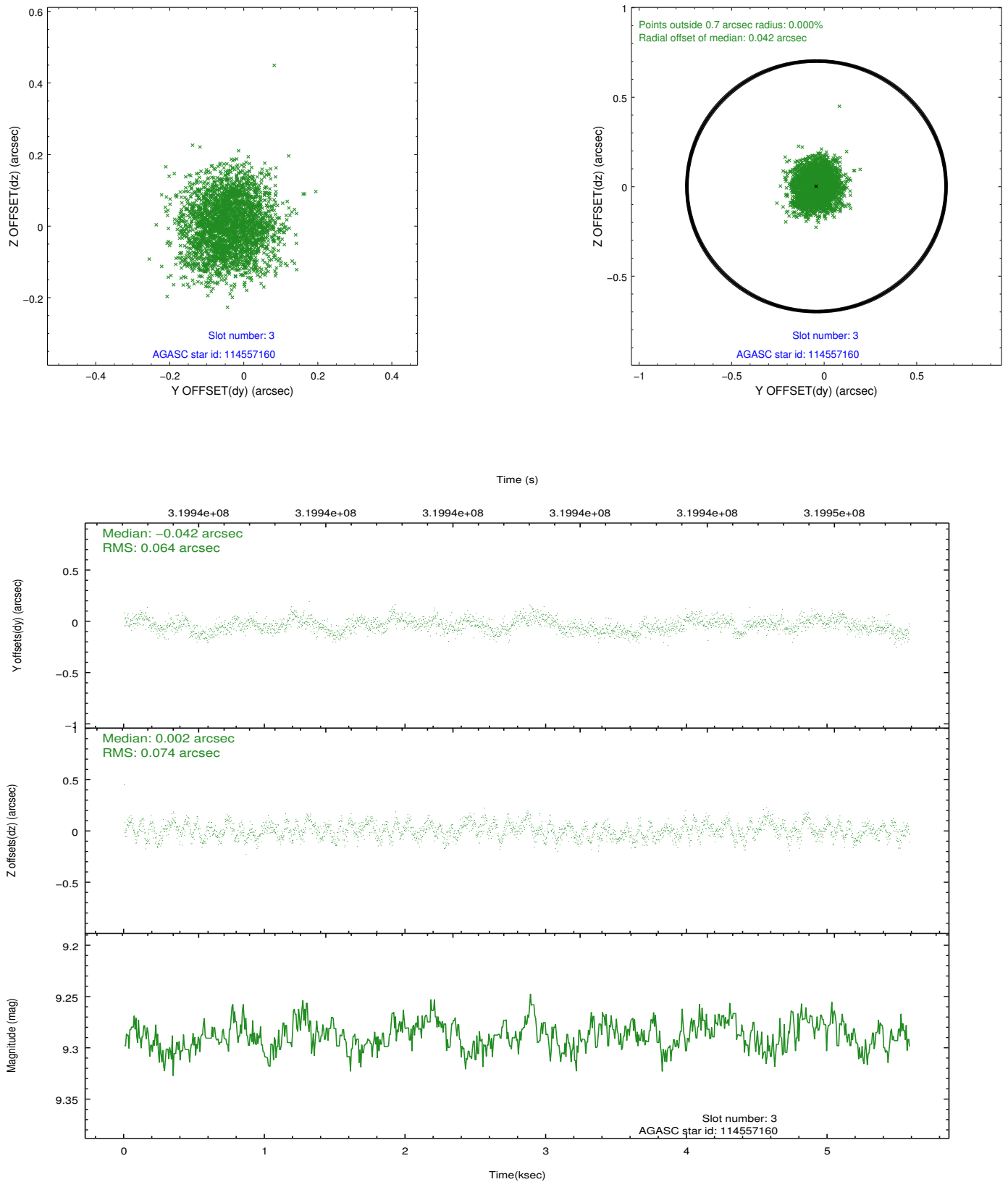


Slot Statistics

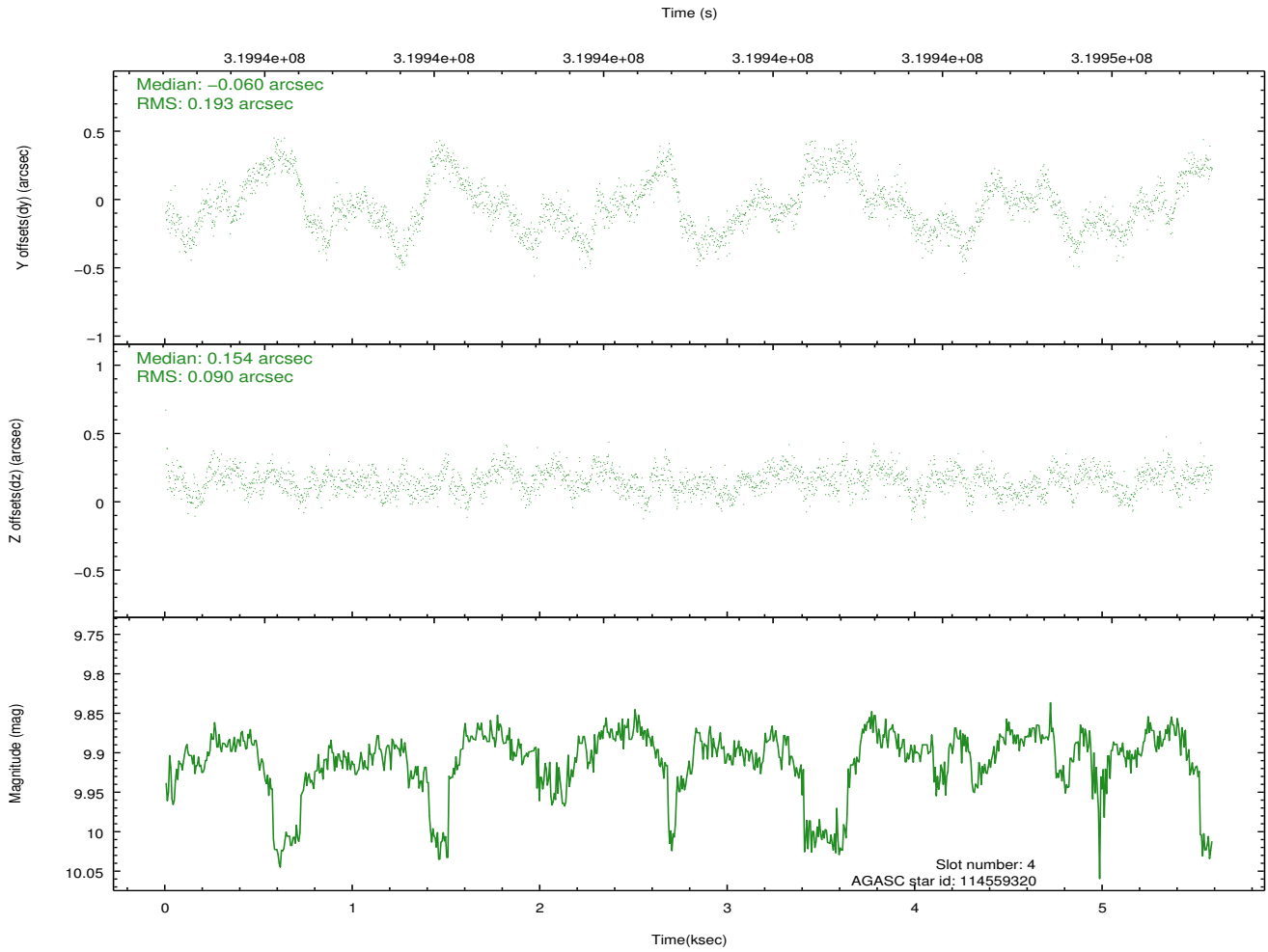
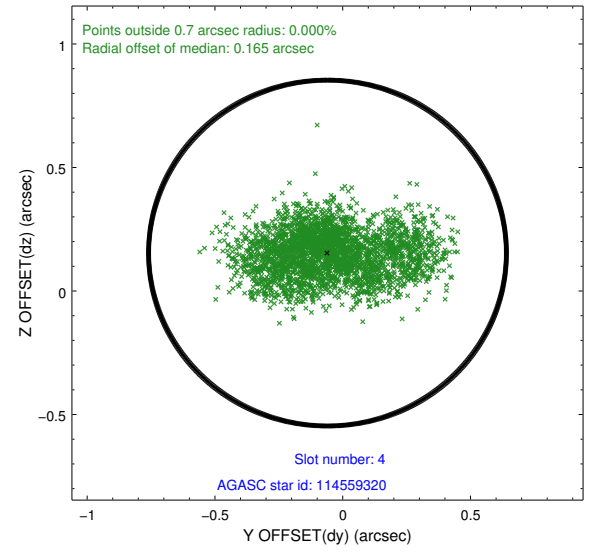
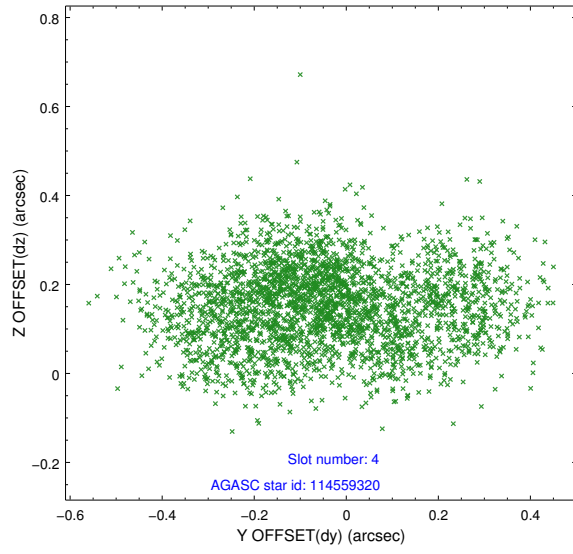
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.086	-0.055	0.007	0.012	0.000000	0.000000	-767.57	-1735.79
1	FID	ACIS-S-4	7.19	1362	0.212	0.056	0.005	0.010	0.000000	0.000000	2145.51	171.70
2	FID	ACIS-S-5	7.22	1362	-0.156	0.007	0.007	0.011	0.000000	0.000000	-1819.11	166.53
3	GUIDE	114557160	9.29	2723	-0.042	0.002	0.106	0.165	188.190957	9.093563	552.13	-1771.18
4	GUIDE	114559320	9.90	2718	-0.060	0.154	0.227	0.380	187.769706	9.386795	1437.38	-168.73
5	GUIDE	114561592	9.78	2721	0.149	0.010	0.102	0.169	187.709505	8.445382	-1954.08	-324.52
6	GUIDE	114562016	9.80	2718	-0.241	-0.177	0.115	0.186	187.666482	9.315593	1141.83	167.98
7	GUIDE	114562392	10.08	2719	0.186	0.013	0.164	0.271	187.662769	8.522526	-1696.19	-128.78

2.4 Star Slots

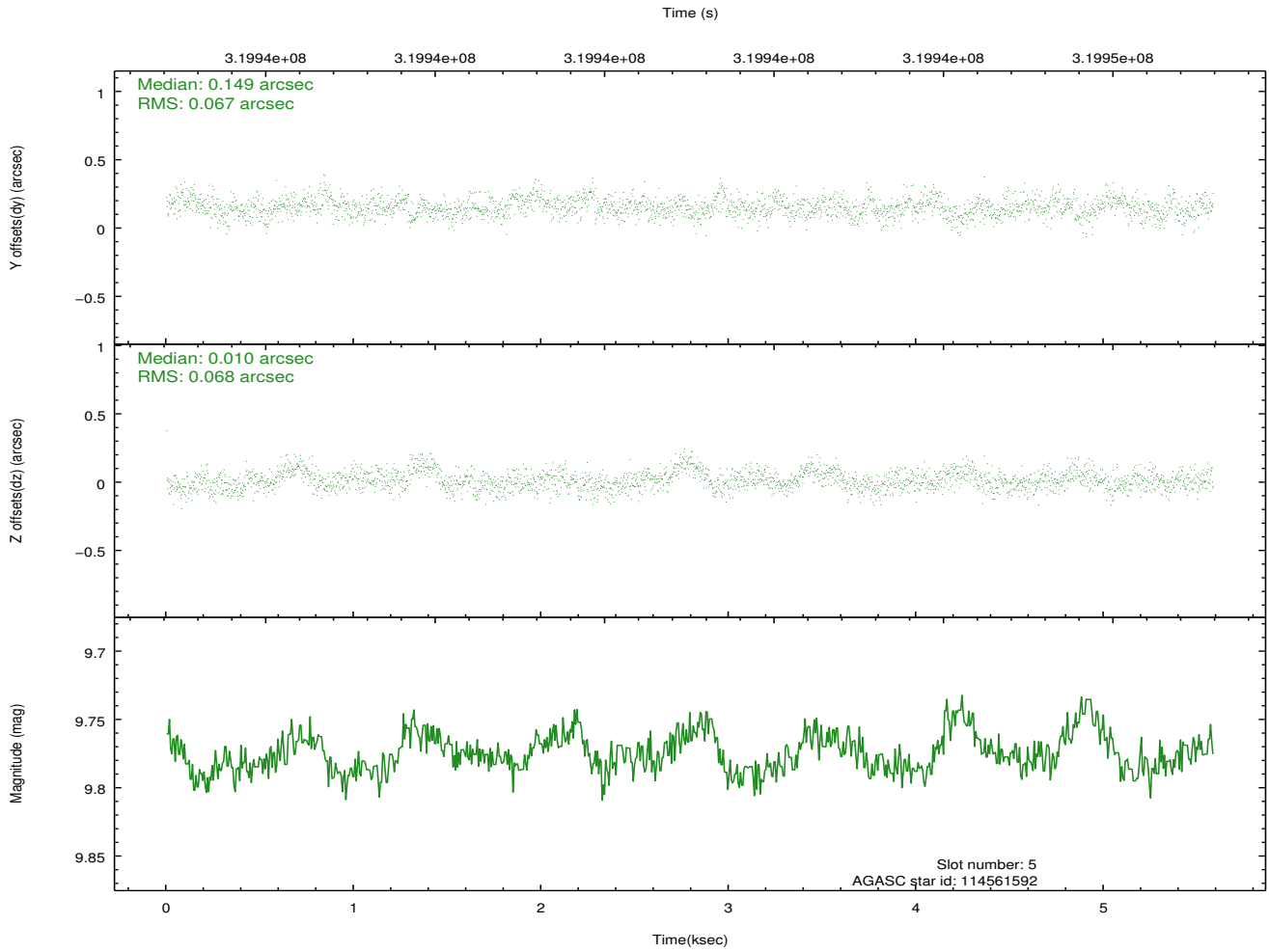
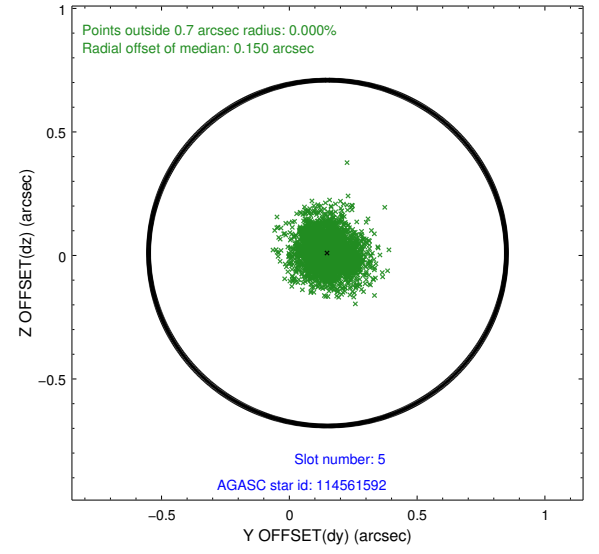
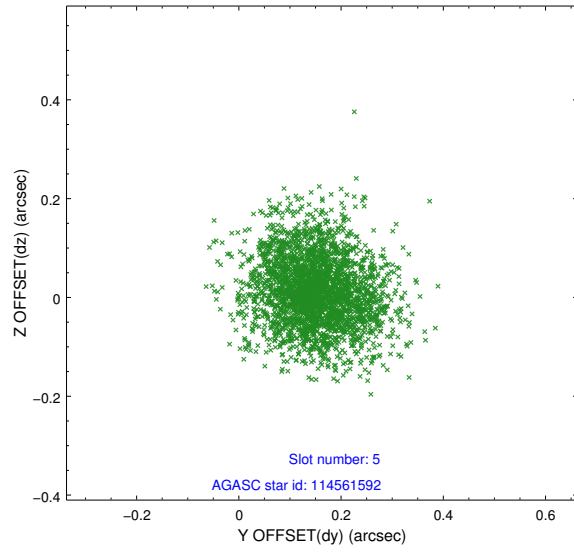
2.4.1 Slot 3



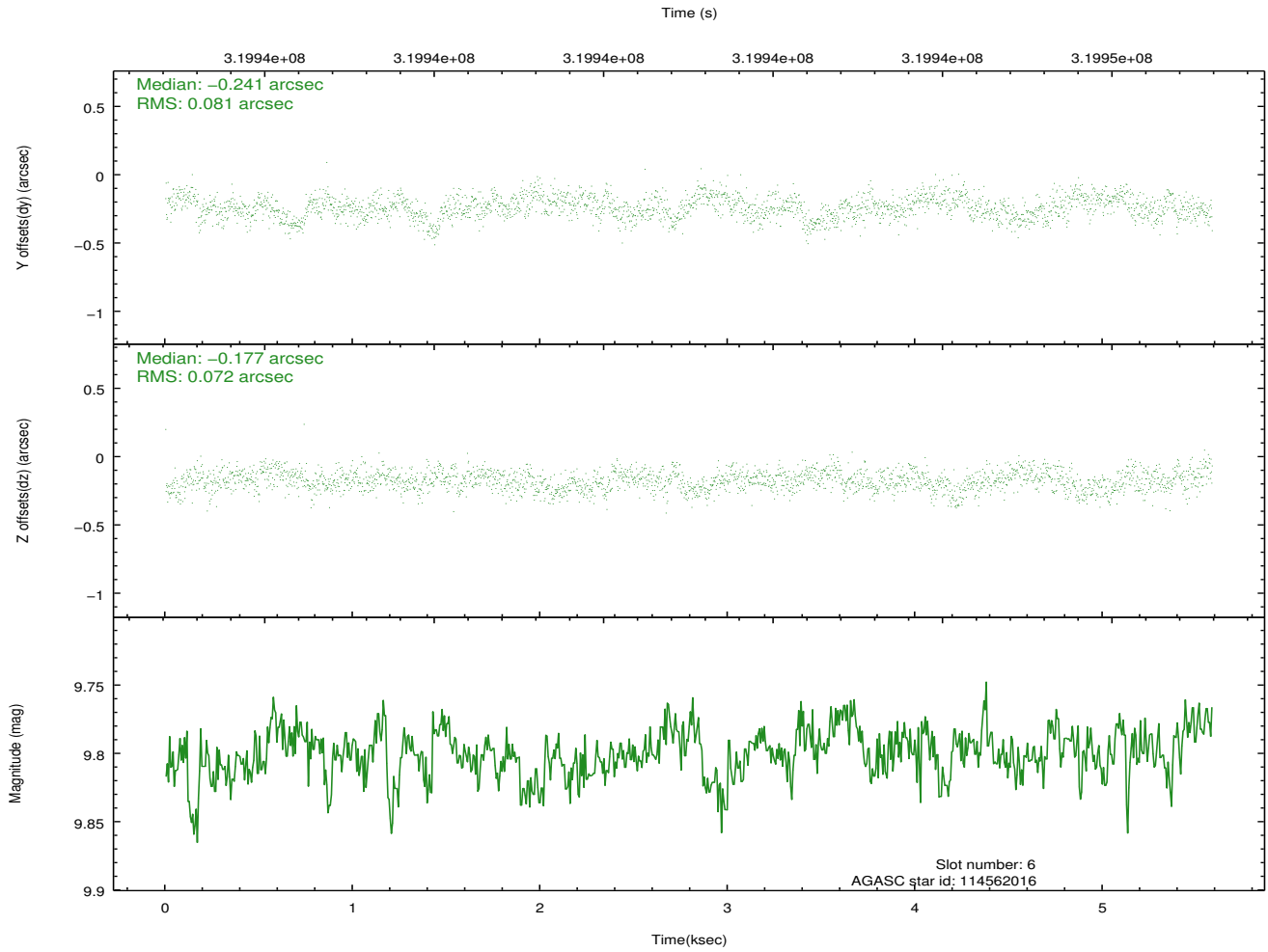
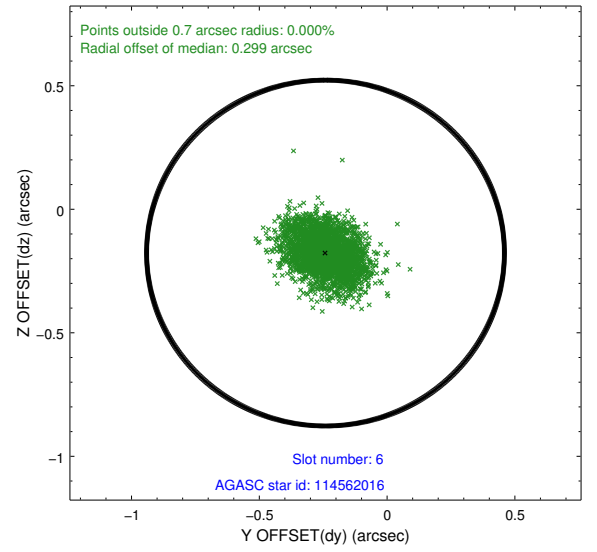
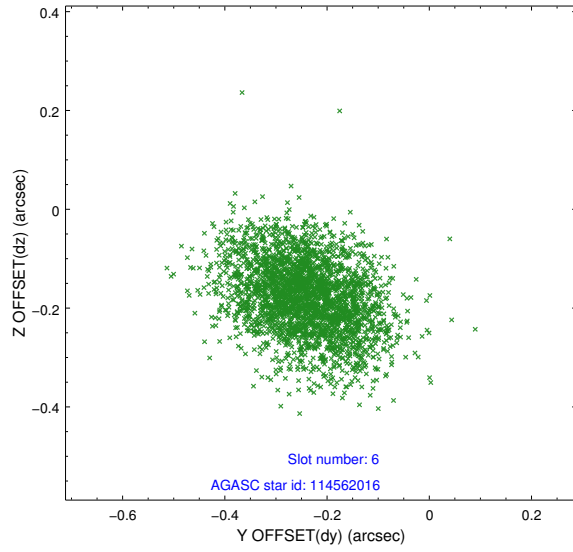
2.4.2 Slot 4



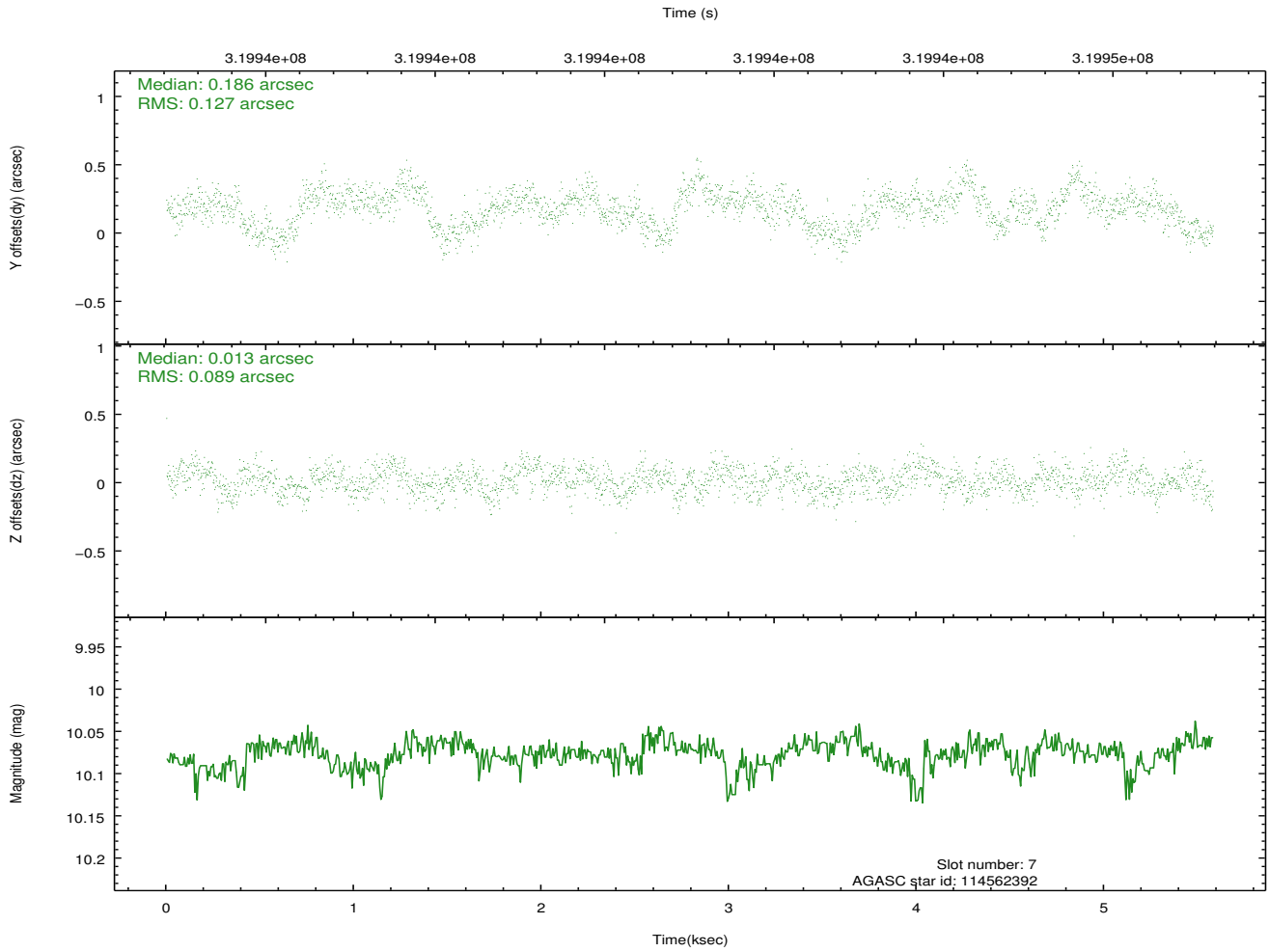
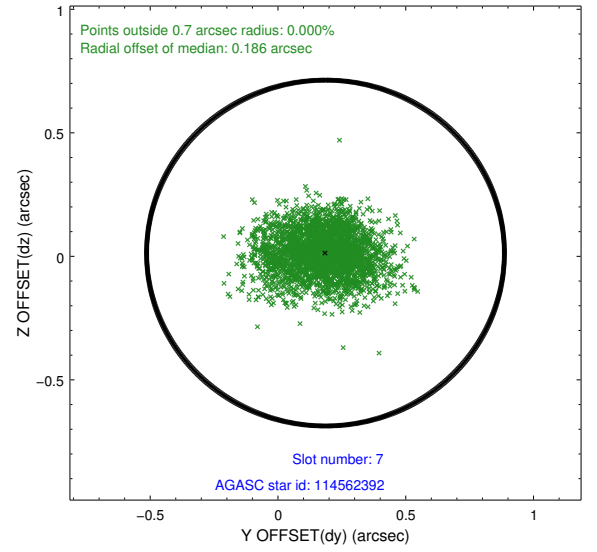
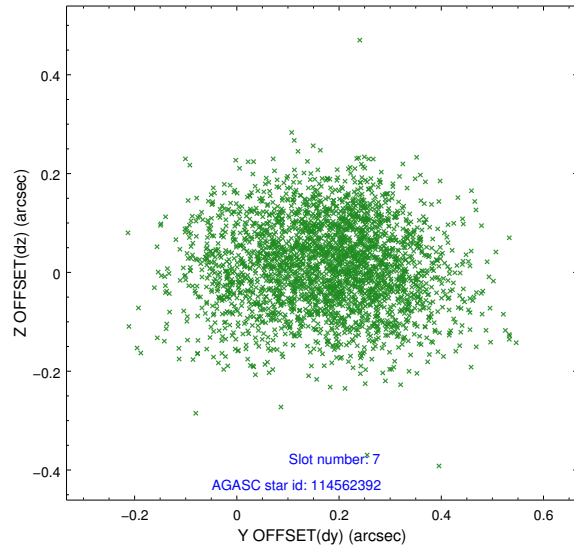
2.4.3 Slot 5



2.4.4 Slot 6

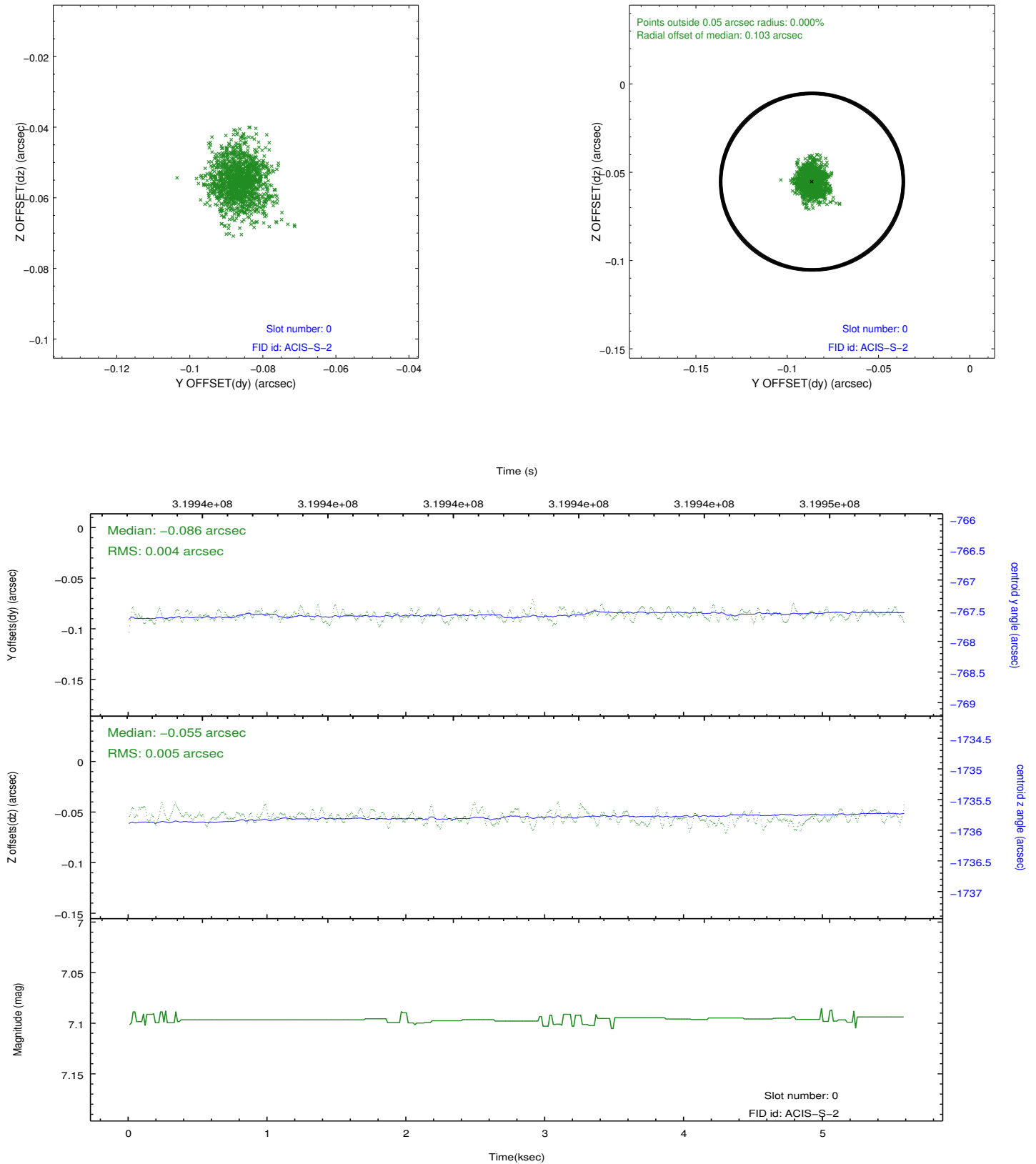


2.4.5 Slot 7

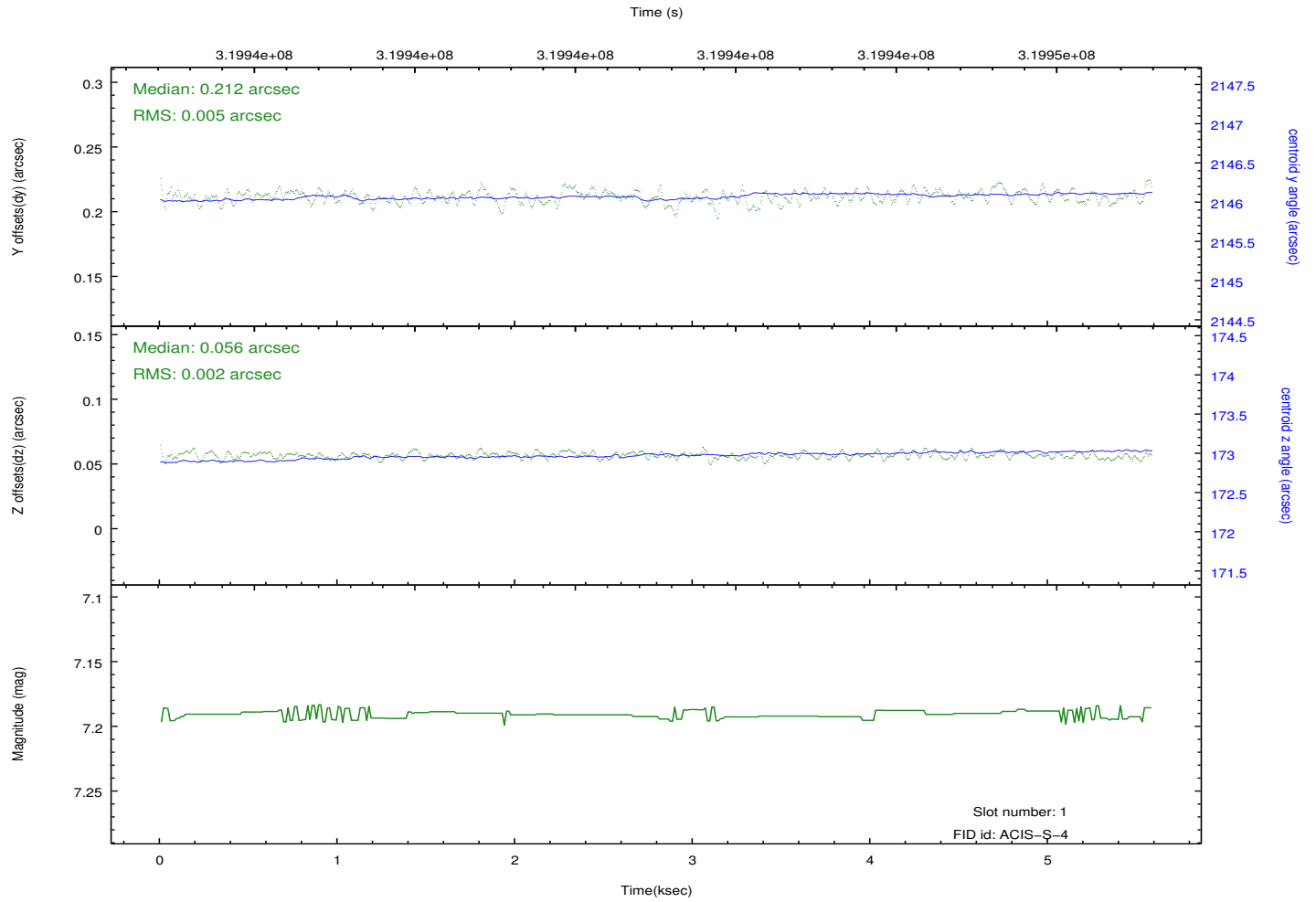
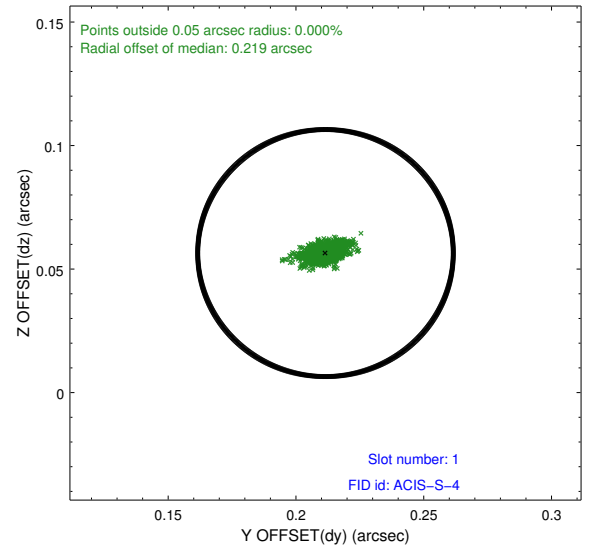
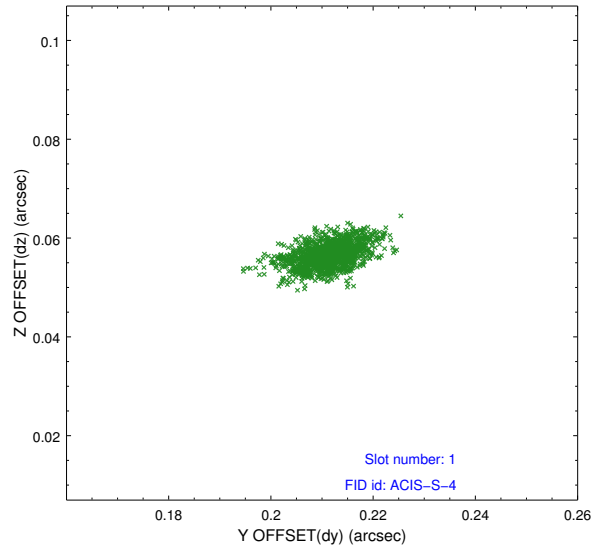


2.5 FID Slots

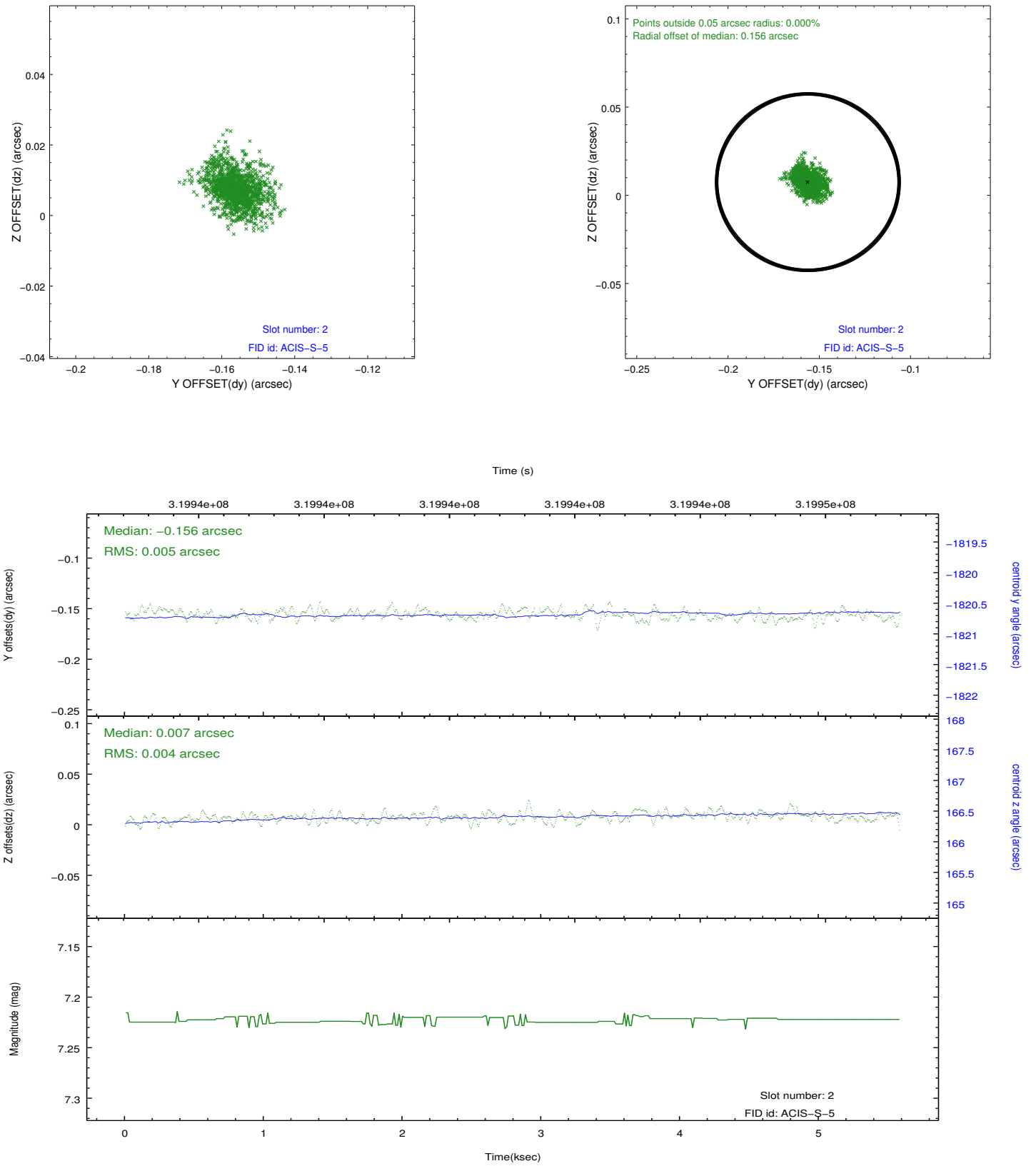
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer