

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8085 - L2 Version 2
Chandra X-Ray Center

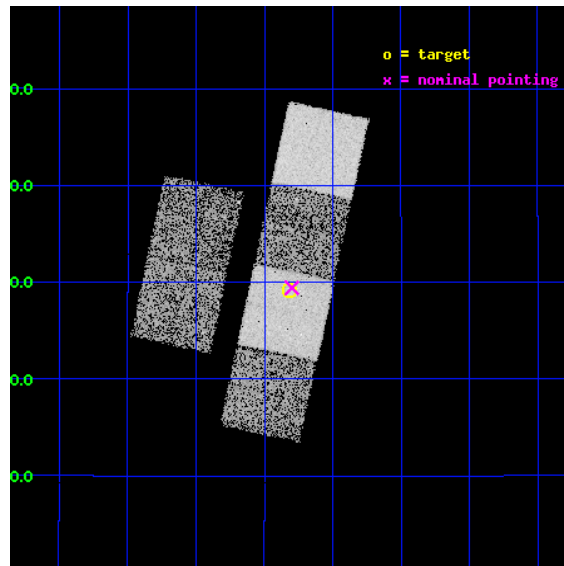
L2 Processing Date : May 10 2012

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1 Front

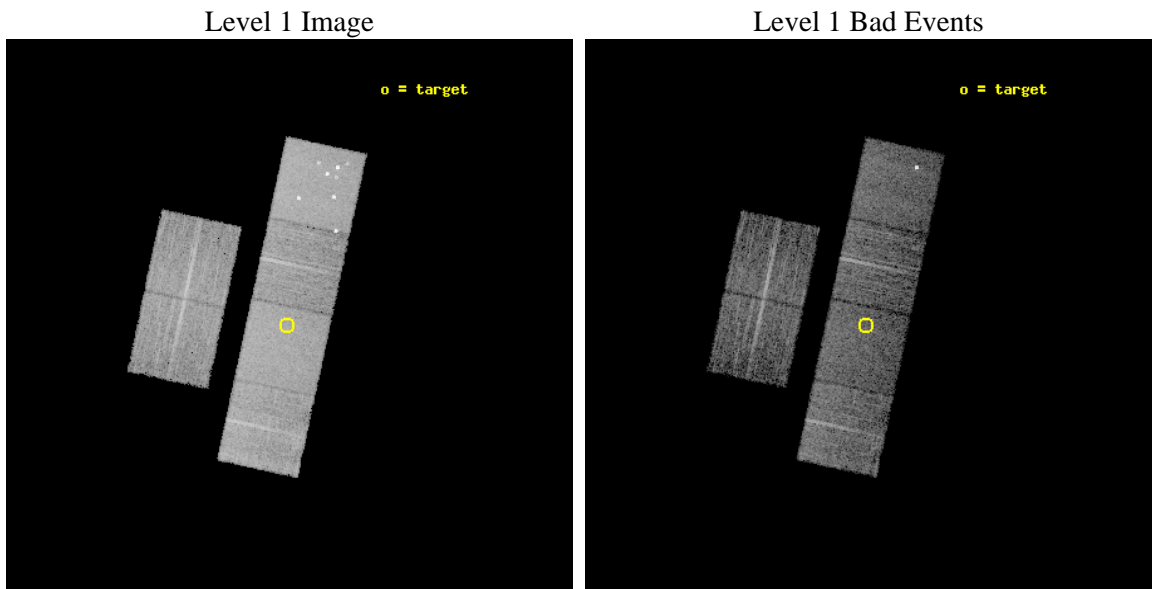
seq_num	900626	Sequence number
obs_id	8085	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	437	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.203333	Observer's specified target RA [deg]
dec_targ	17.487056	Observer's specified target Dec [deg]
ra_nom	185.19973390667	Nominal RA [deg]
dec_nom	17.490639367453	Nominal Dec [deg]
roll_nom	102.15779573941	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5155.199980855	Sum of GTIs [s]
livetime	5089.9217346086	Livetime [s]
ontime2	5155.199980855	Sum of GTIs [s]
ontime3	5155.199980855	Sum of GTIs [s]
ontime5	5155.199980855	Sum of GTIs [s]
ontime6	5155.199980855	Sum of GTIs [s]
ontime7	5155.199980855	Sum of GTIs [s]
ontime8	5151.9589505792	Sum of GTIs [s]
l2events	80980	Number of level 2 events



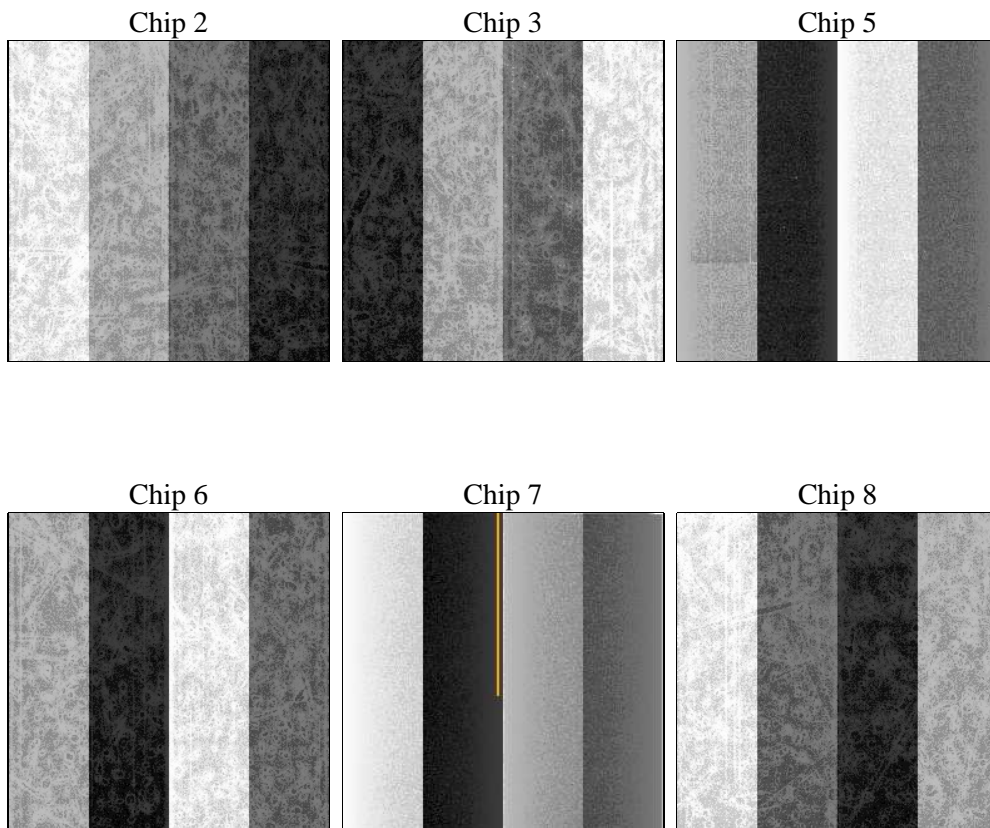
2 OBI

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	5155.199980855	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5155.199980855	Sum of GTIs [s]
date	2012-05-10T08:11:08	Date and time of file creation	ontime3	5155.199980855	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5155.199980855	Sum of GTIs [s]
			ontime6	5155.199980855	Sum of GTIs [s]
			ontime7	5155.199980855	Sum of GTIs [s]
			ontime8	5151.9589505792	Sum of GTIs [s]
			l1events	368549	Number of level 1 events

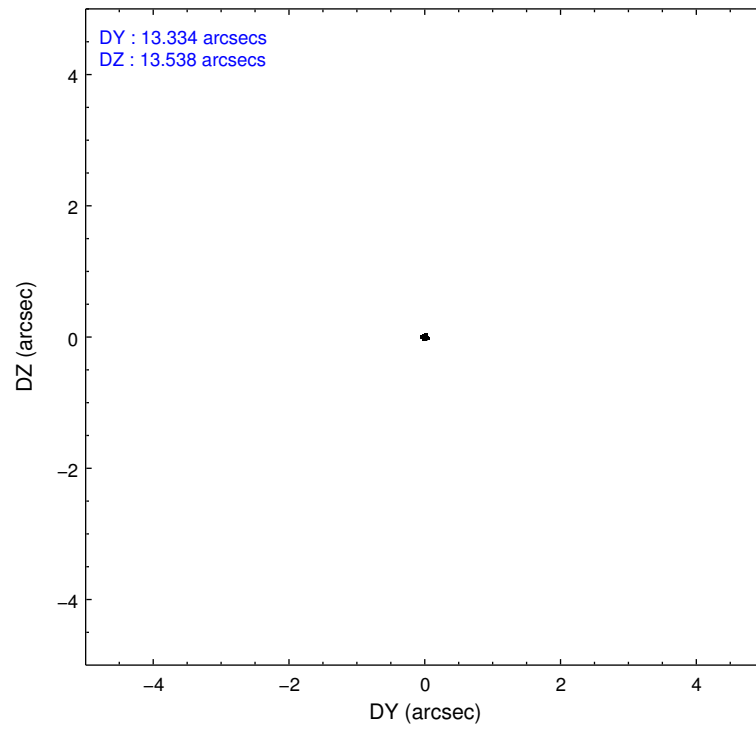
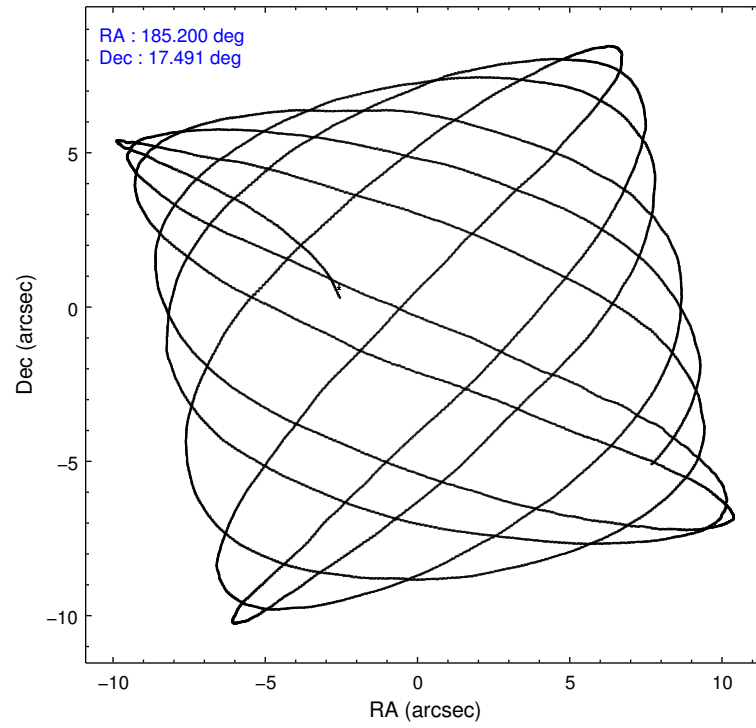
2.1.4 Events

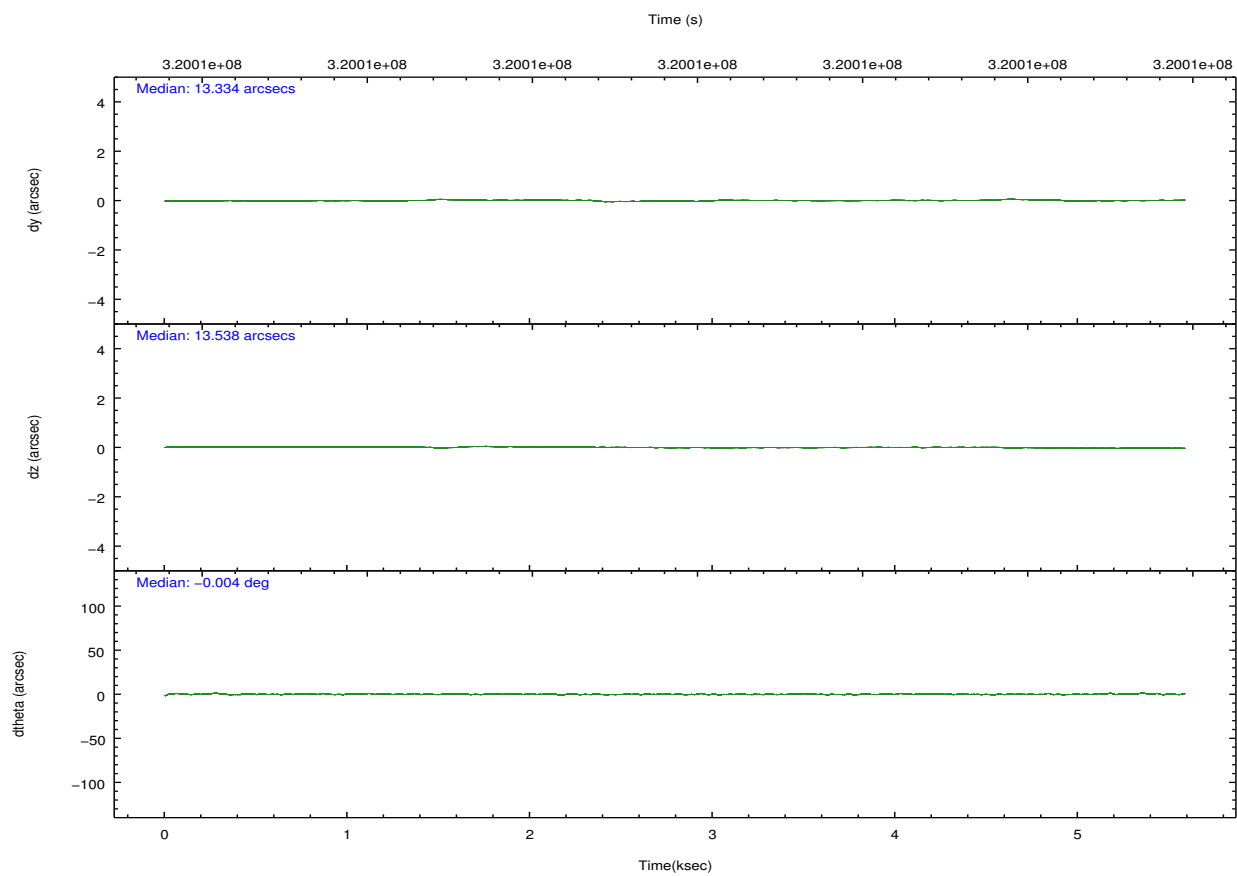
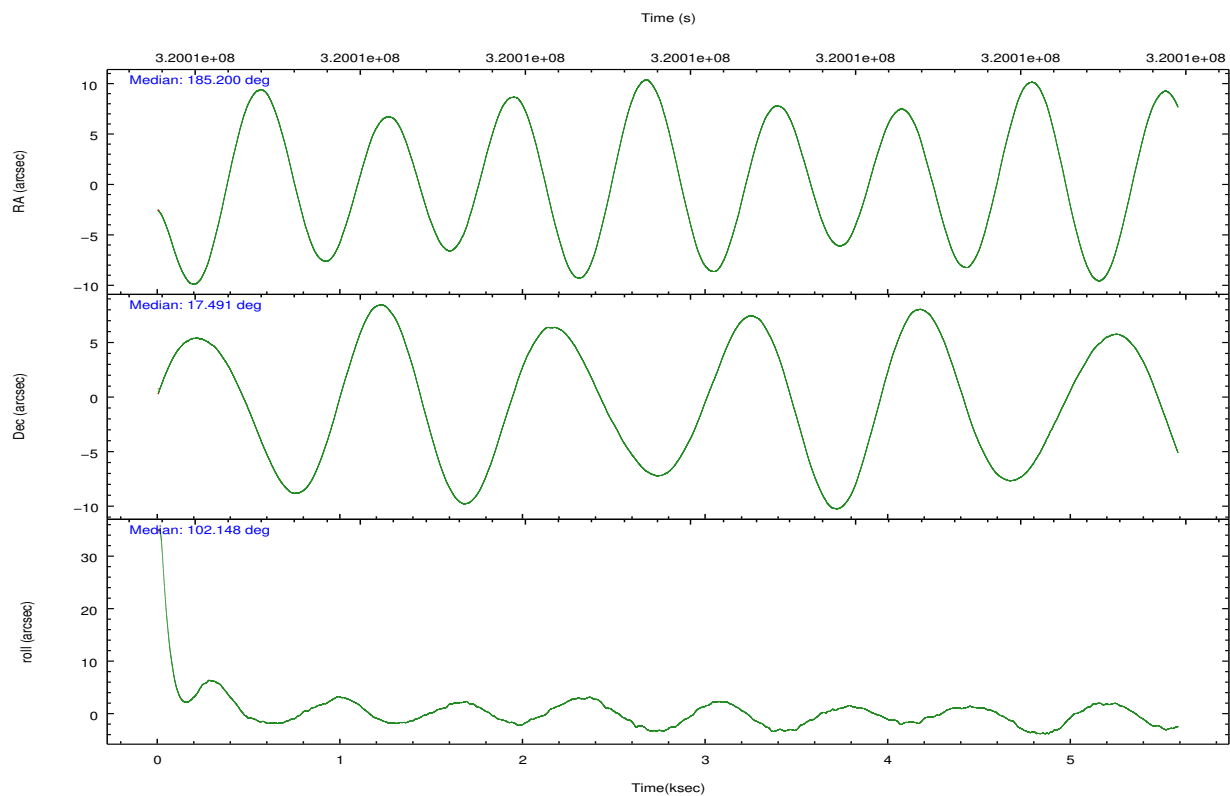
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50644	47195	84440	49907	69039	67324	grade 0 events	2328	2577	7147	2286	2354	4305
rejected events	45084	41335	43673	44010	40883	53691		4%	5%	8%	4%	3%	6%
rejected %	89%	87%	51%	88%	59%	79%	grade 1 events	41	34	120	25	65	62
								0%	0%	0%	0%	0%	0%
							grade 2 events	1207	1120	11198	1321	5733	3050
								2%	2%	13%	2%	8%	4%
							grade 3 events	584	547	1222	535	2315	1417
								1%	1%	1%	1%	3%	2%
							grade 4 events	507	552	1084	527	2287	1273
								1%	1%	1%	1%	3%	1%
							grade 5 events	1967	2243	5116	2328	6466	3052
								3%	4%	6%	4%	9%	4%
							grade 6 events	944	1074	20163	1236	15501	3599
								1%	2%	23%	2%	22%	5%
							grade 7 events	43066	39048	38390	41649	34318	50566
								85%	82%	45%	83%	49%	75%

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	185.219337	185.19973390667	CCD I2 on	O1	Y
[deg] Pointing Dec	17.470535	17.49063936745286	CCD I3 on	O2	Y
[deg] Pointing Roll	101.995190	102.1577957394106	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)	320008253.184000	320007612.08237	CCD S5 on	N	N
Observation start date	2008-02-21T19:09:48	2008-02-21T19:00:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320013653.184000	320014536.47021	On-chip summing requested	N	N
Observation end date	2008-02-21T20:39:48	2008-02-21T20:55:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



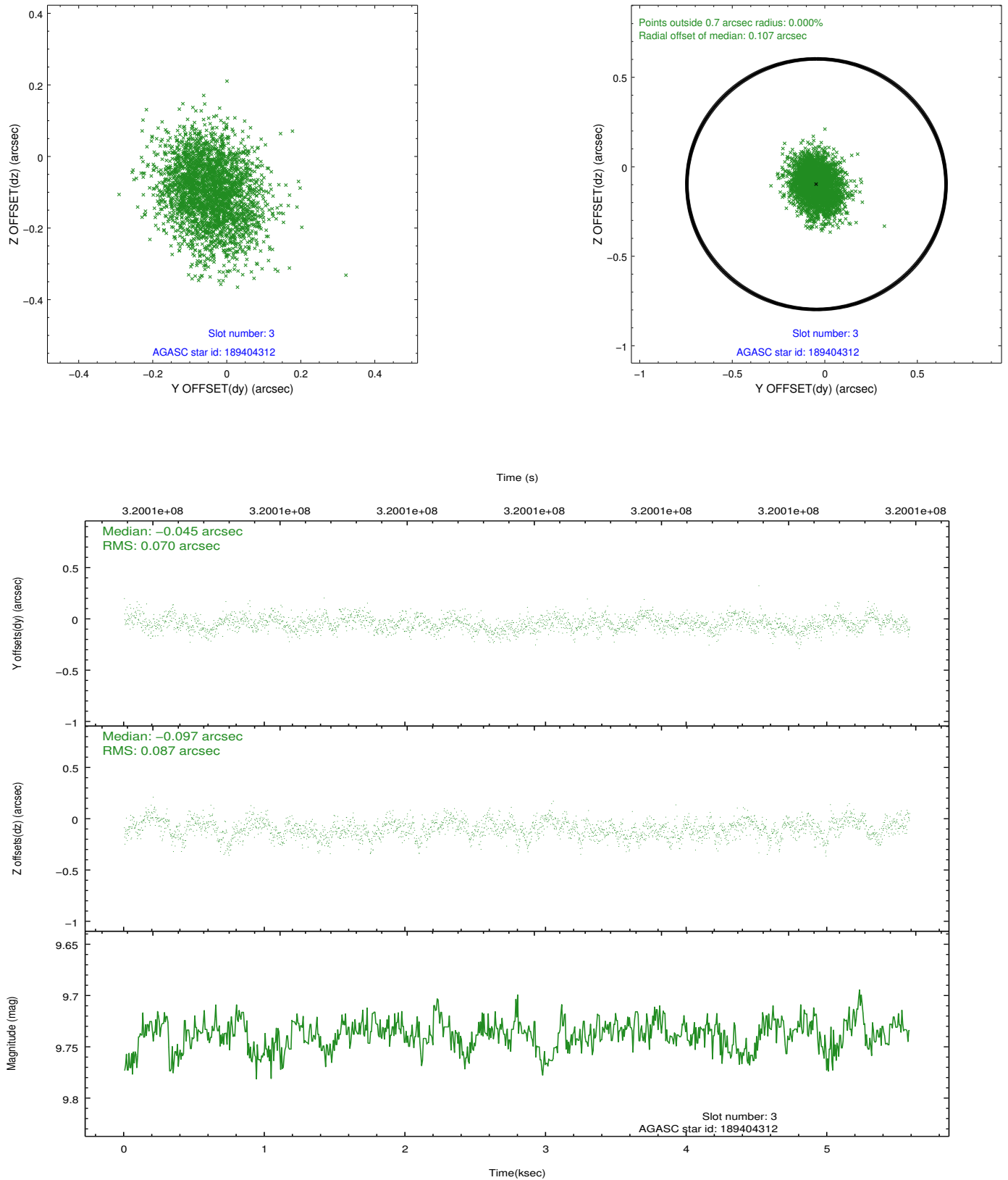


Slot Statistics

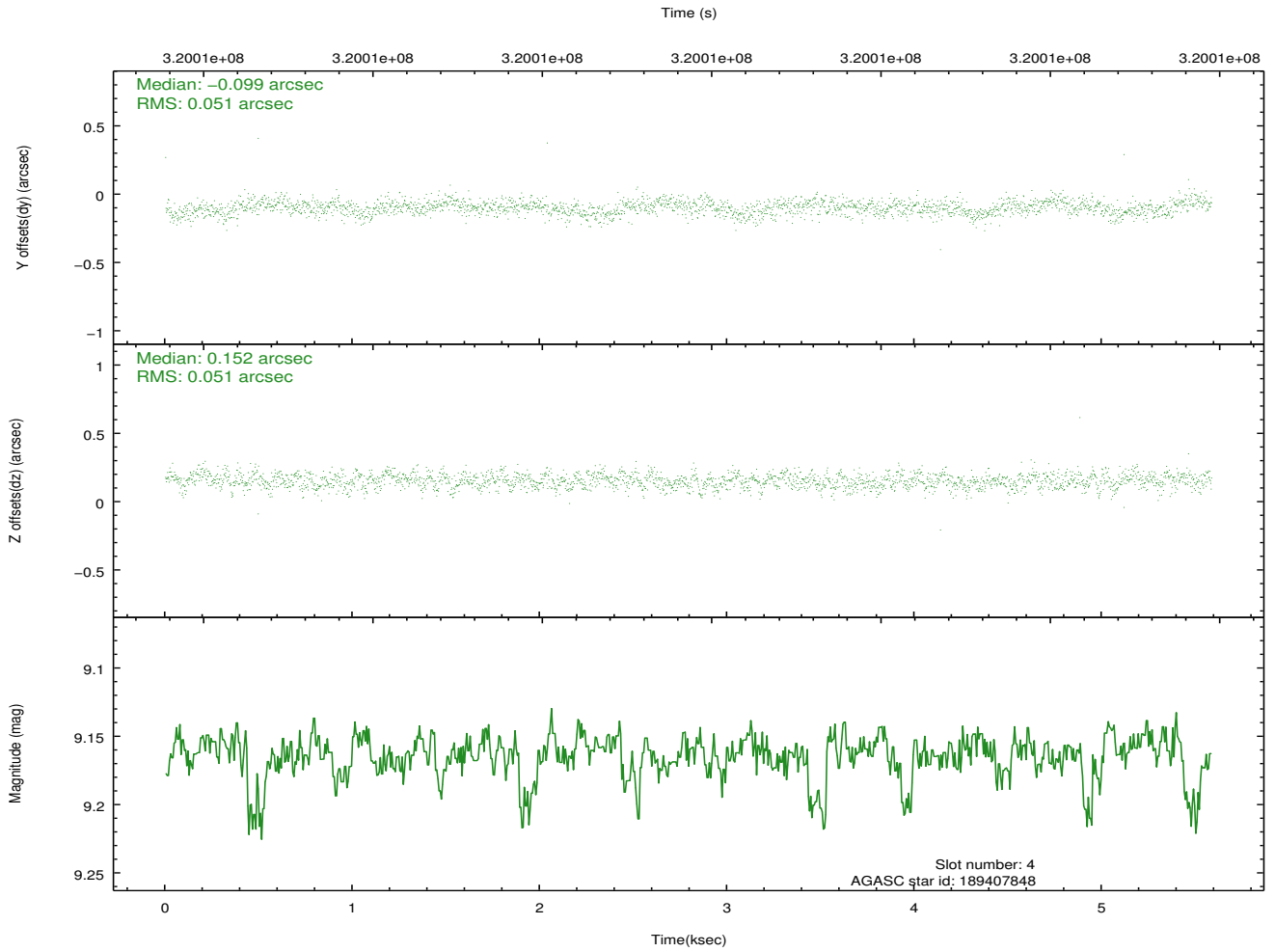
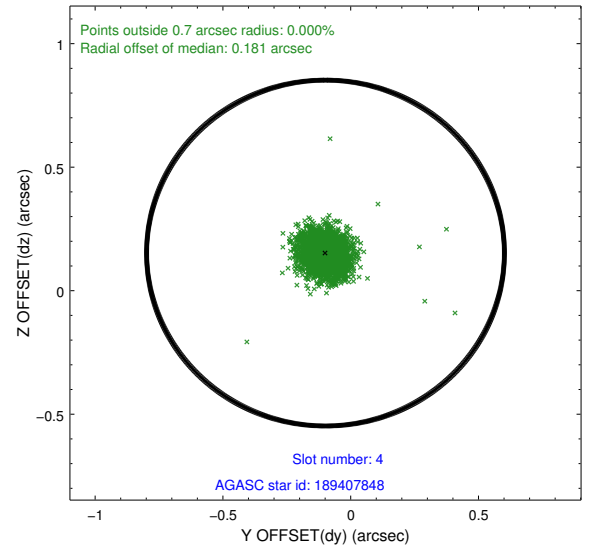
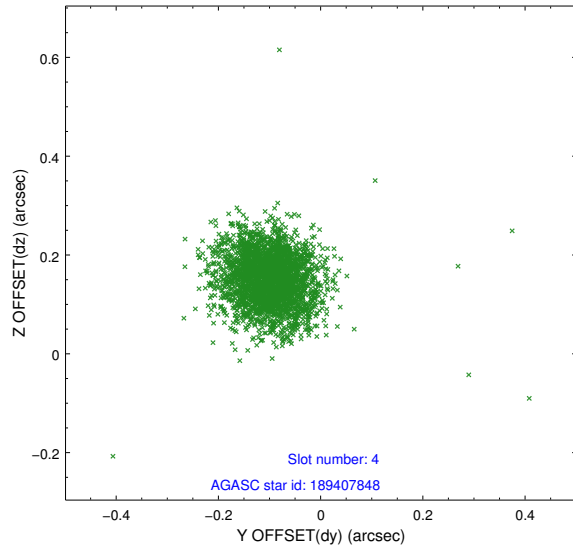
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1363	-0.038	-0.071	0.007	0.011	0.000000	0.000000	-766.30	-1734.89
1	FID	ACIS-S-4	7.19	1363	0.175	0.037	0.005	0.009	0.000000	0.000000	2146.70	172.58
2	FID	ACIS-S-5	7.23	1363	-0.169	0.043	0.007	0.011	0.000000	0.000000	-1817.89	167.49
3	GUIDE	189404312	9.74	2723	-0.045	-0.097	0.117	0.191	185.610454	17.665681	409.77	-1458.55
4	GUIDE	189407848	9.16	2722	-0.099	0.152	0.072	0.122	185.643887	17.789494	822.52	-1662.66
5	GUIDE	189409672	9.16	2721	0.116	0.121	0.090	0.143	185.549167	17.344732	-677.21	-1015.26
6	GUIDE	189411304	7.62	2723	-0.040	-0.111	0.060	0.096	185.011882	17.285384	-504.01	835.72
7	GUIDE	189414512	7.95	2723	0.070	-0.054	0.071	0.116	184.954865	16.808525	-2142.82	1386.89

2.4 Star Slots

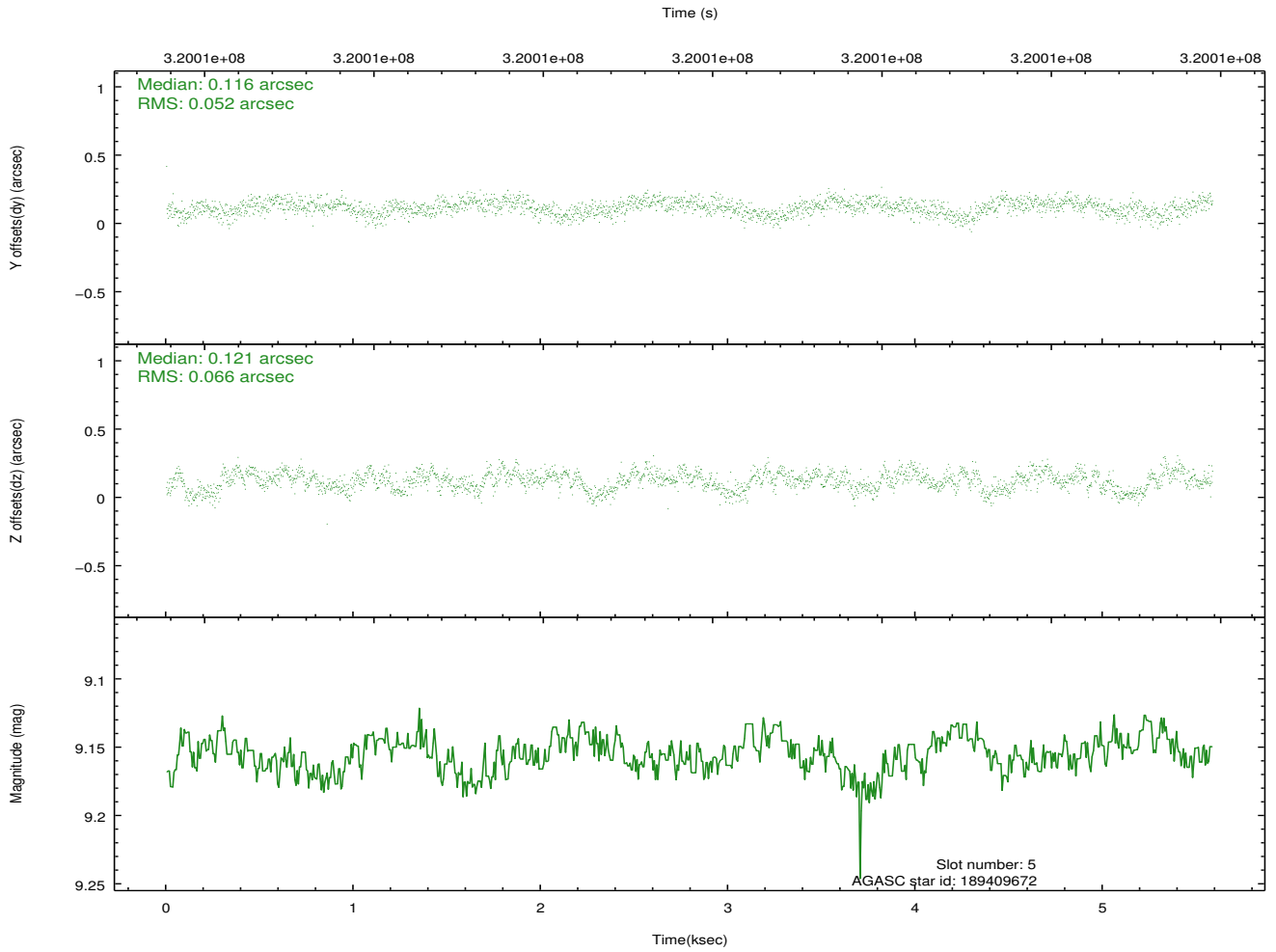
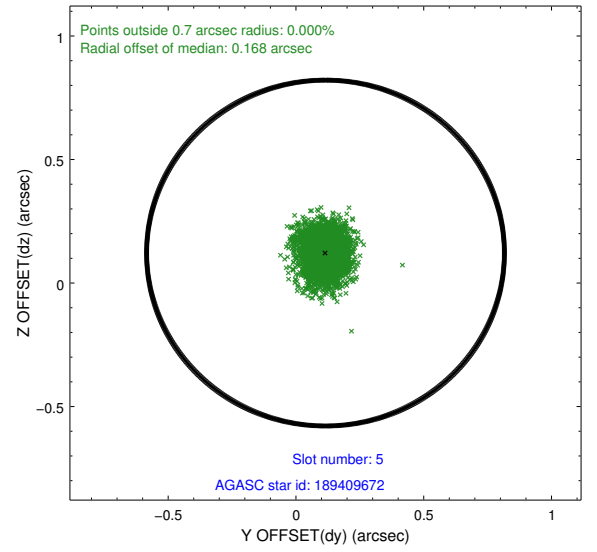
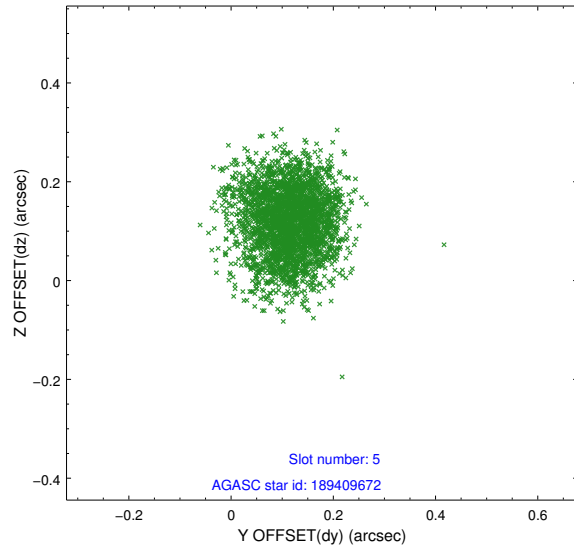
2.4.1 Slot 3



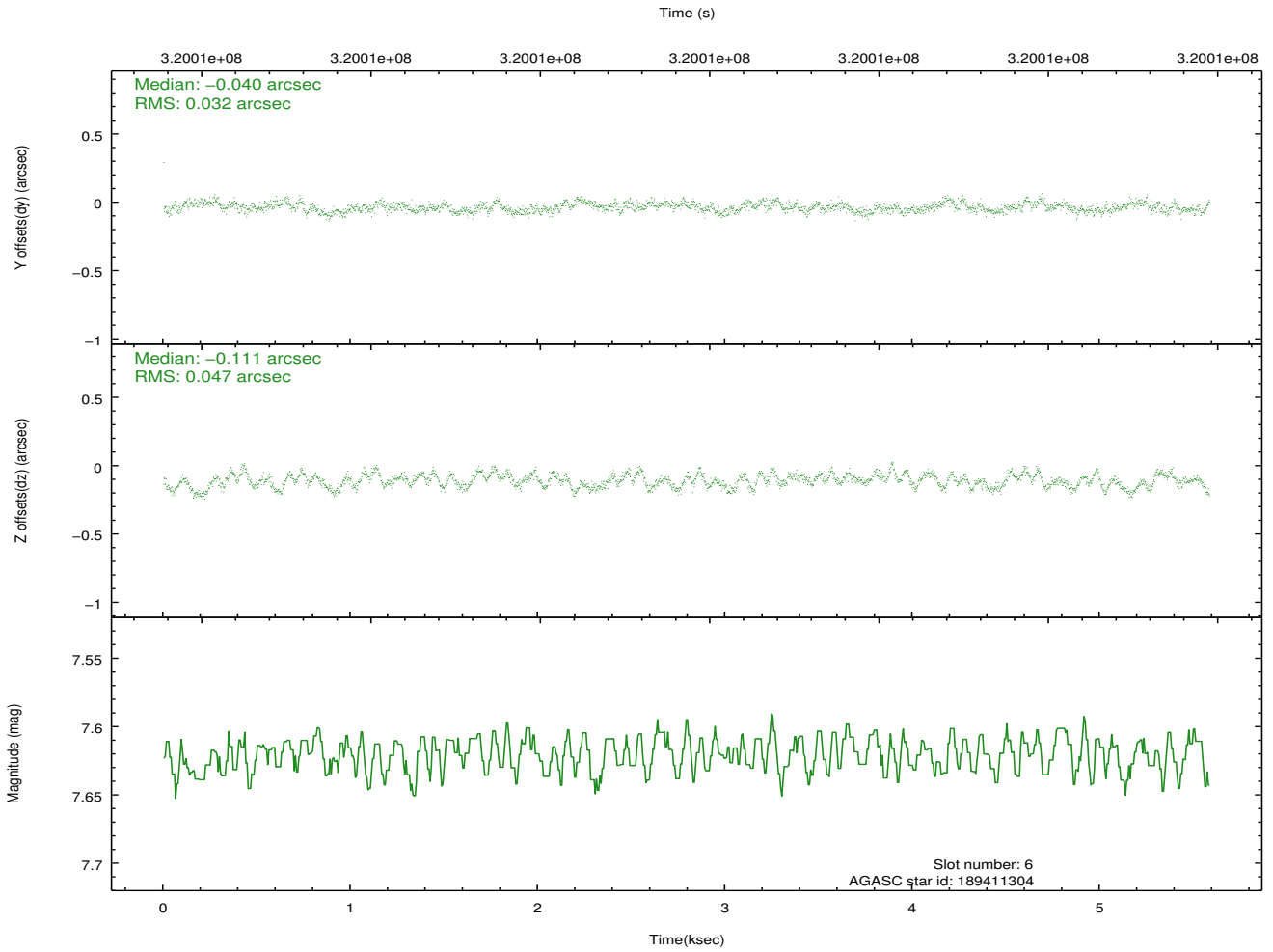
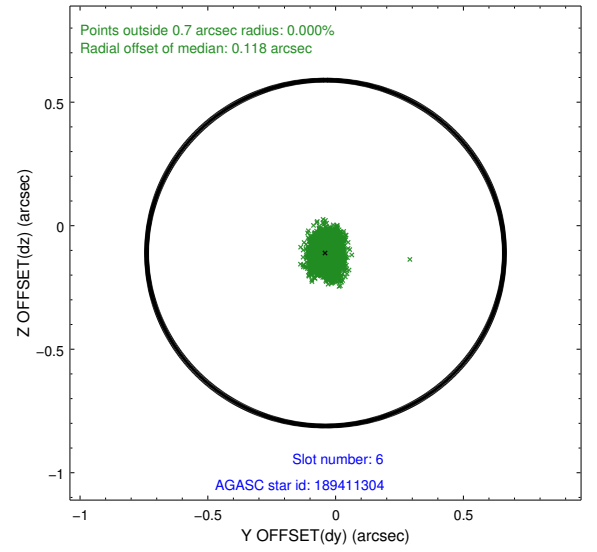
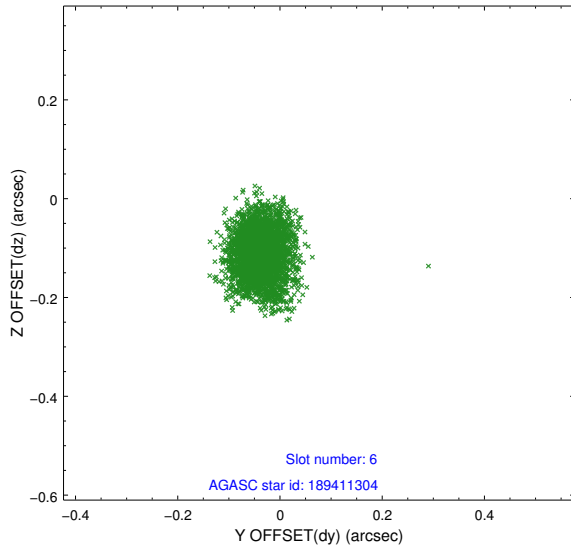
2.4.2 Slot 4



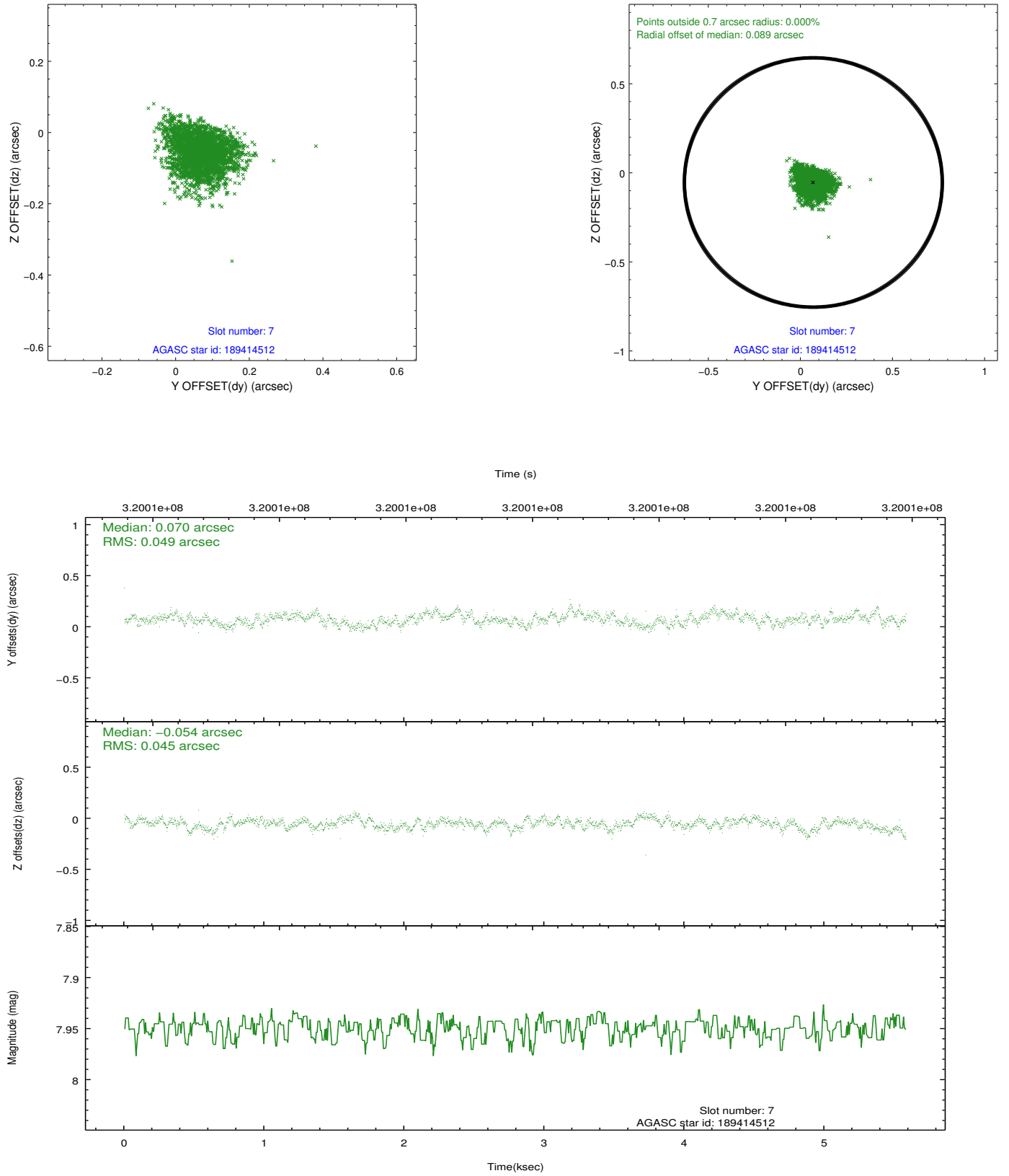
2.4.3 Slot 5



2.4.4 Slot 6

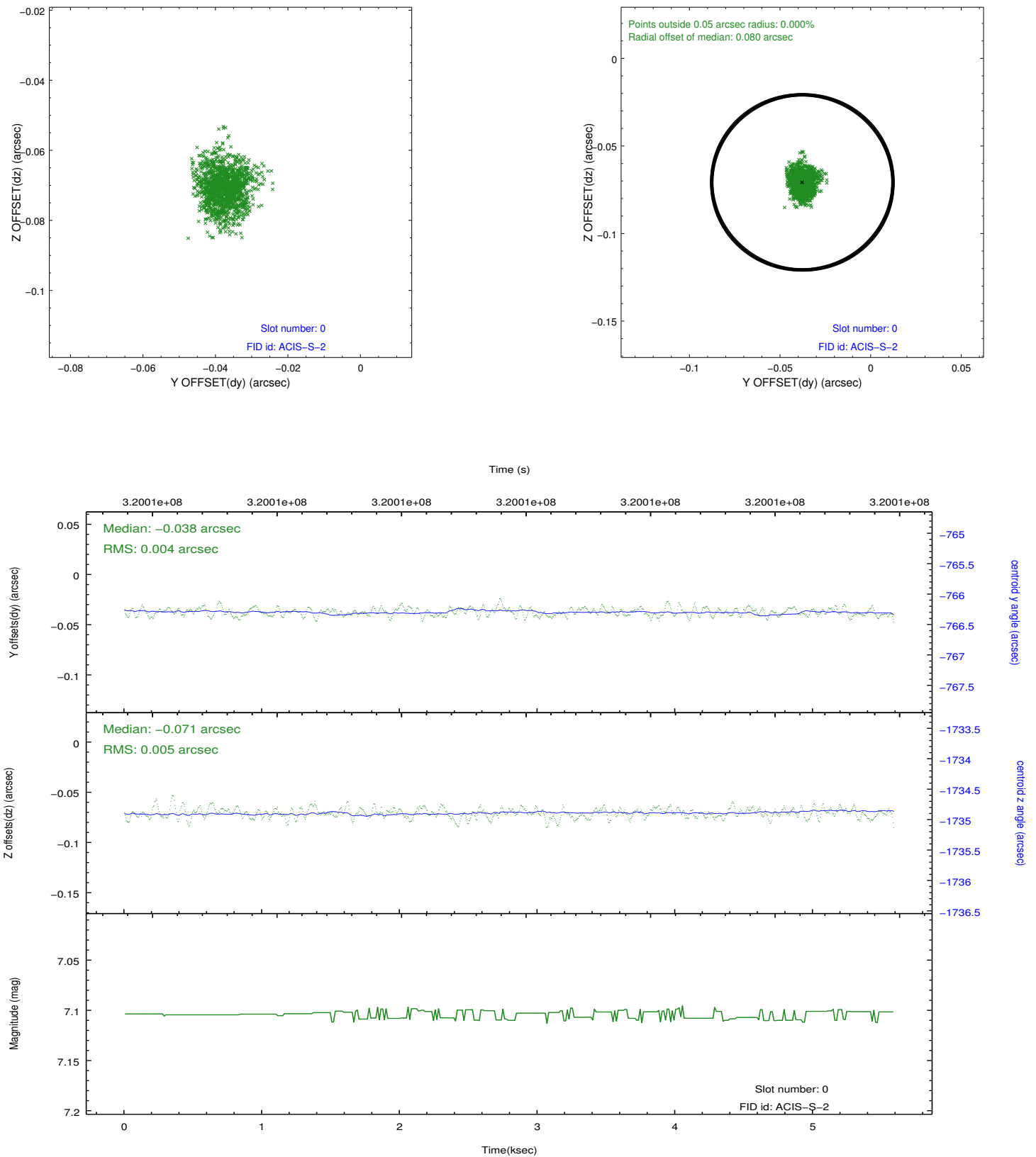


2.4.5 Slot 7

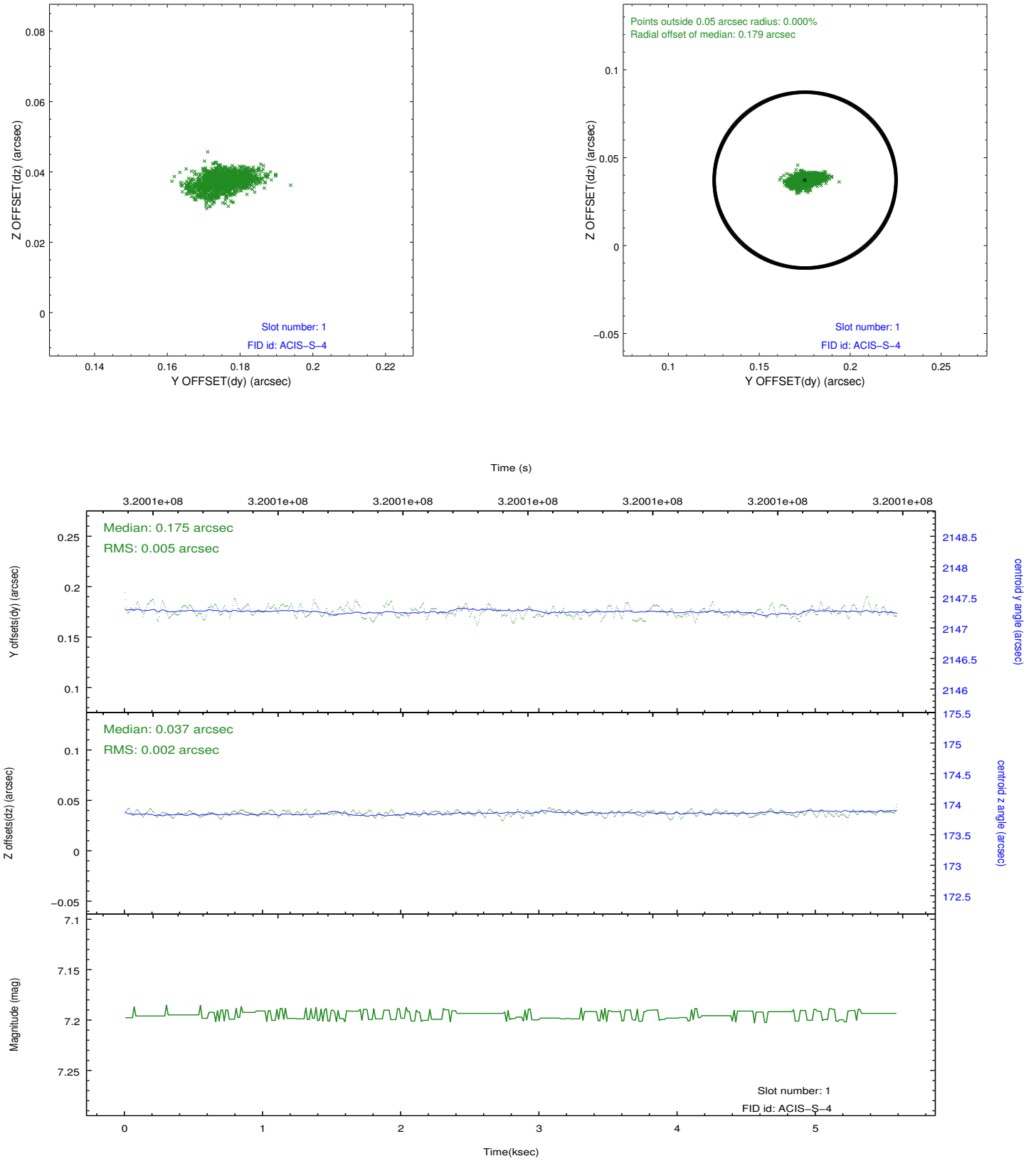


2.5 FID Slots

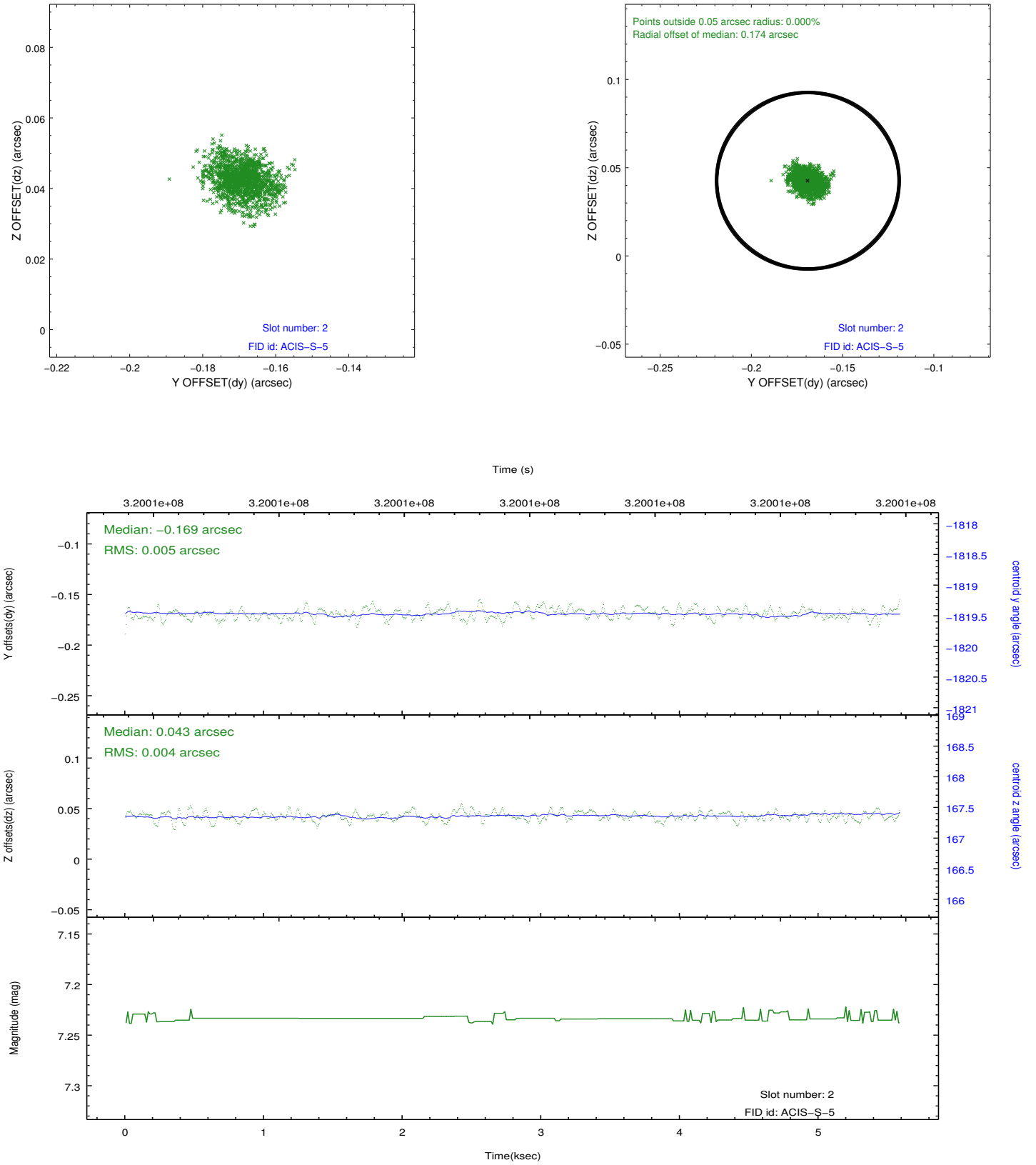
2.5.1 Slot 0



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	5.15519998

A.2 Comments

Joint Proposal: Spitzer