

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8080 - L2 Version 2
Chandra X-Ray Center

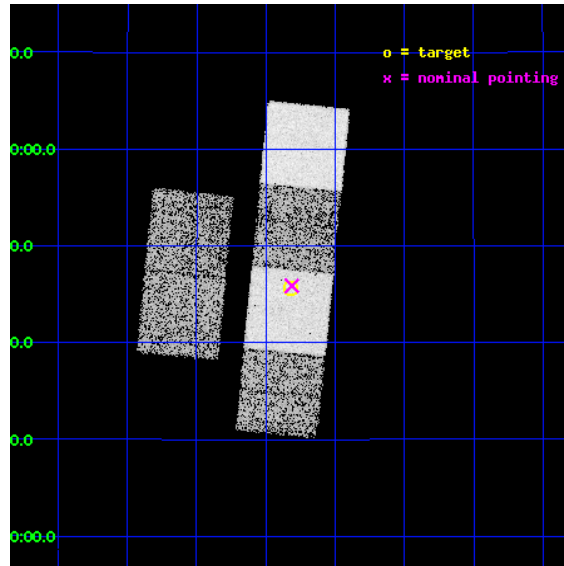
L2 Processing Date : May 10 2012

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1 Front

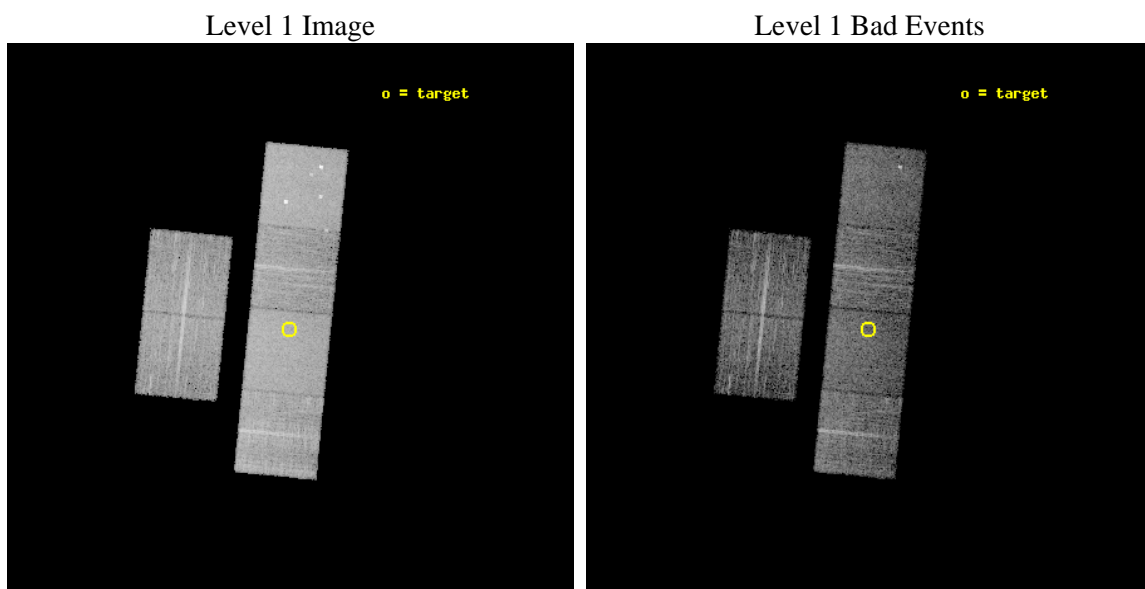
seq_num	900621	Sequence number
obs_id	8080	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	543	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.58125	Observer's specified target RA [deg]
dec_targ	14.760722	Observer's specified target Dec [deg]
ra_nom	185.57816031456	Nominal RA [deg]
dec_nom	14.764586038967	Nominal Dec [deg]
roll_nom	95.662754995433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5404.6079872251	Sum of GTIs [s]
livetime	5336.1715866266	Livetime [s]
ontime2	5404.6490272284	Sum of GTIs [s]
ontime3	5404.4848672152	Sum of GTIs [s]
ontime5	5404.5669472218	Sum of GTIs [s]
ontime6	5404.5259072185	Sum of GTIs [s]
ontime7	5404.6079872251	Sum of GTIs [s]
ontime8	5404.4438272119	Sum of GTIs [s]
l2events	87162	Number of level 2 events



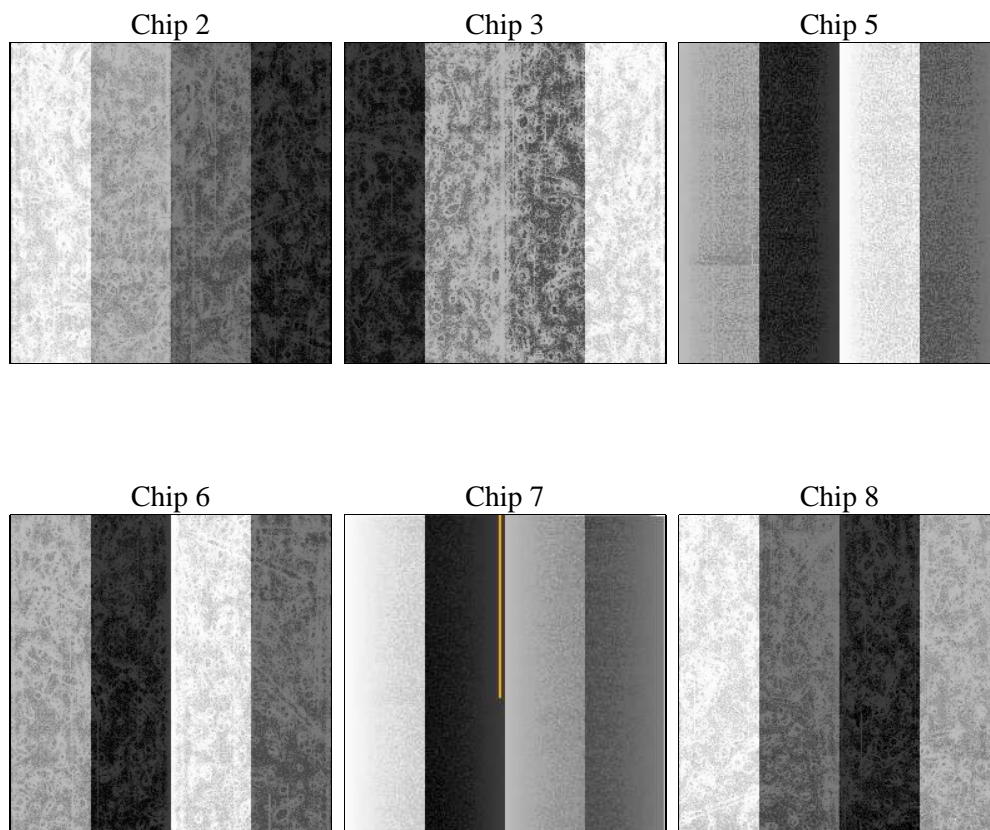
2 OBI

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	5404.6079872251	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5404.6490272284	Sum of GTIs [s]
date	2012-05-10T08:12:55	Date and time of file creation	ontime3	5404.4848672152	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5404.5669472218	Sum of GTIs [s]
			ontime6	5404.5259072185	Sum of GTIs [s]
			ontime7	5404.6079872251	Sum of GTIs [s]
			ontime8	5404.4438272119	Sum of GTIs [s]
			l1events	381898	Number of level 1 events

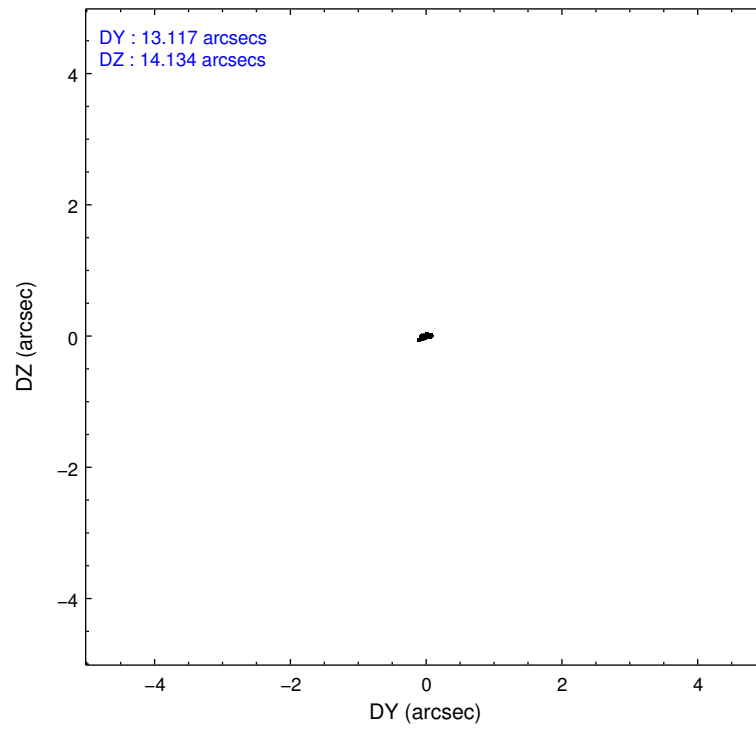
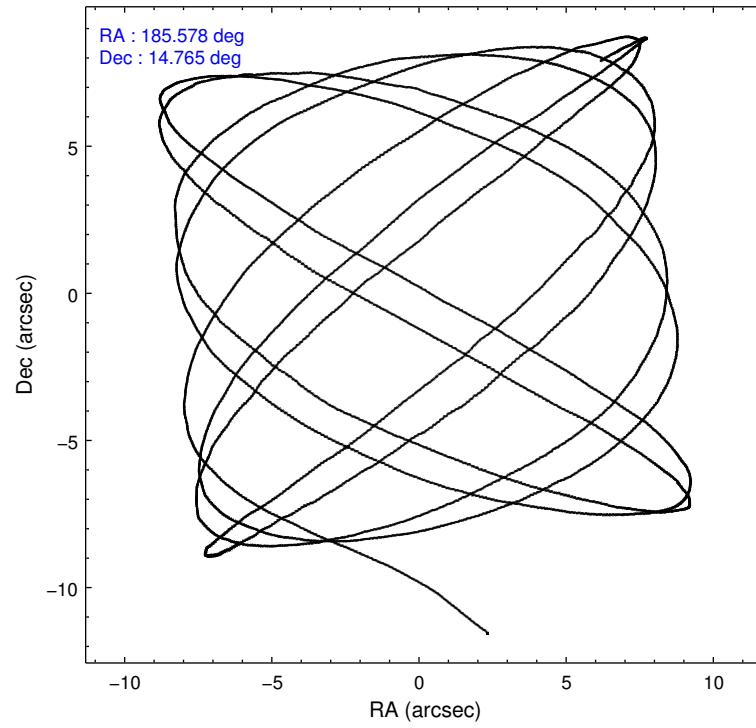
2.1.4 Events

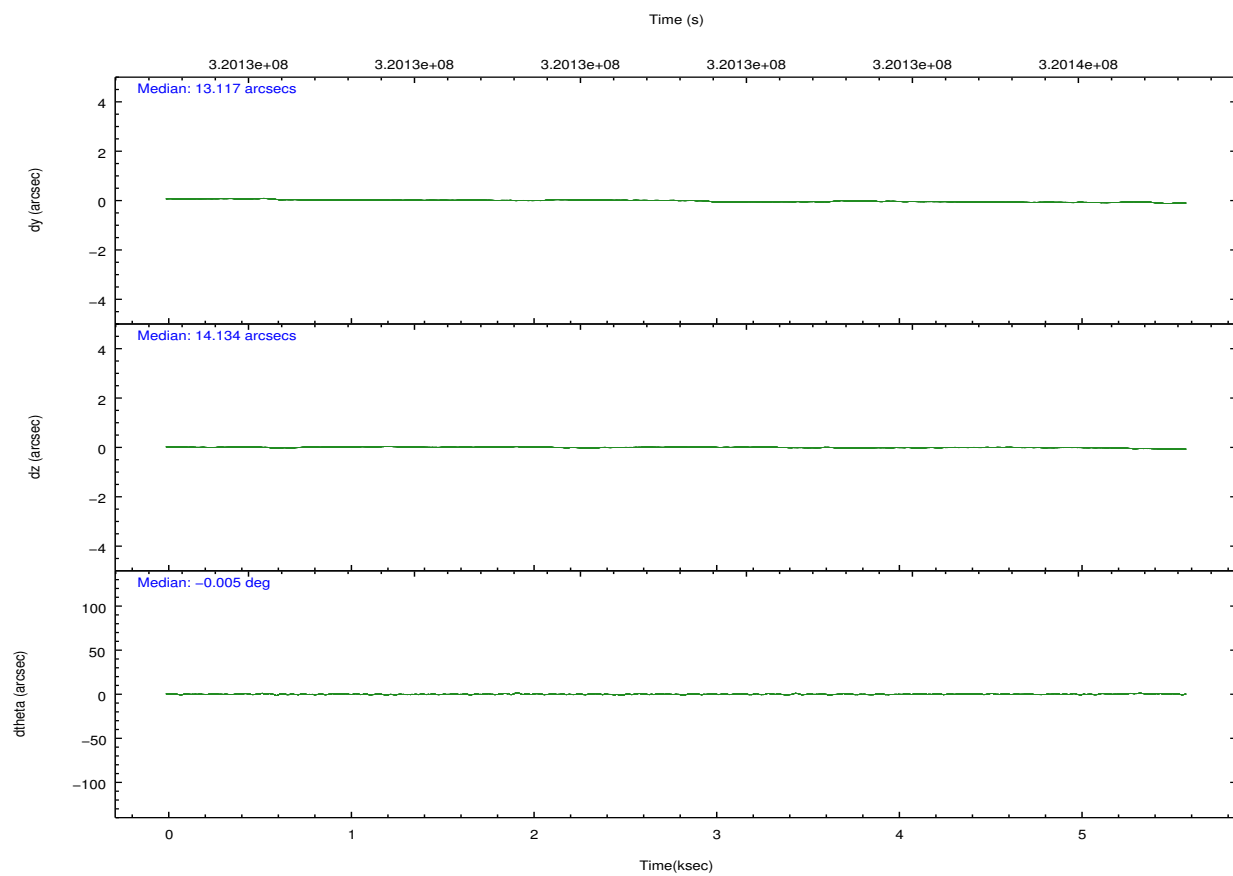
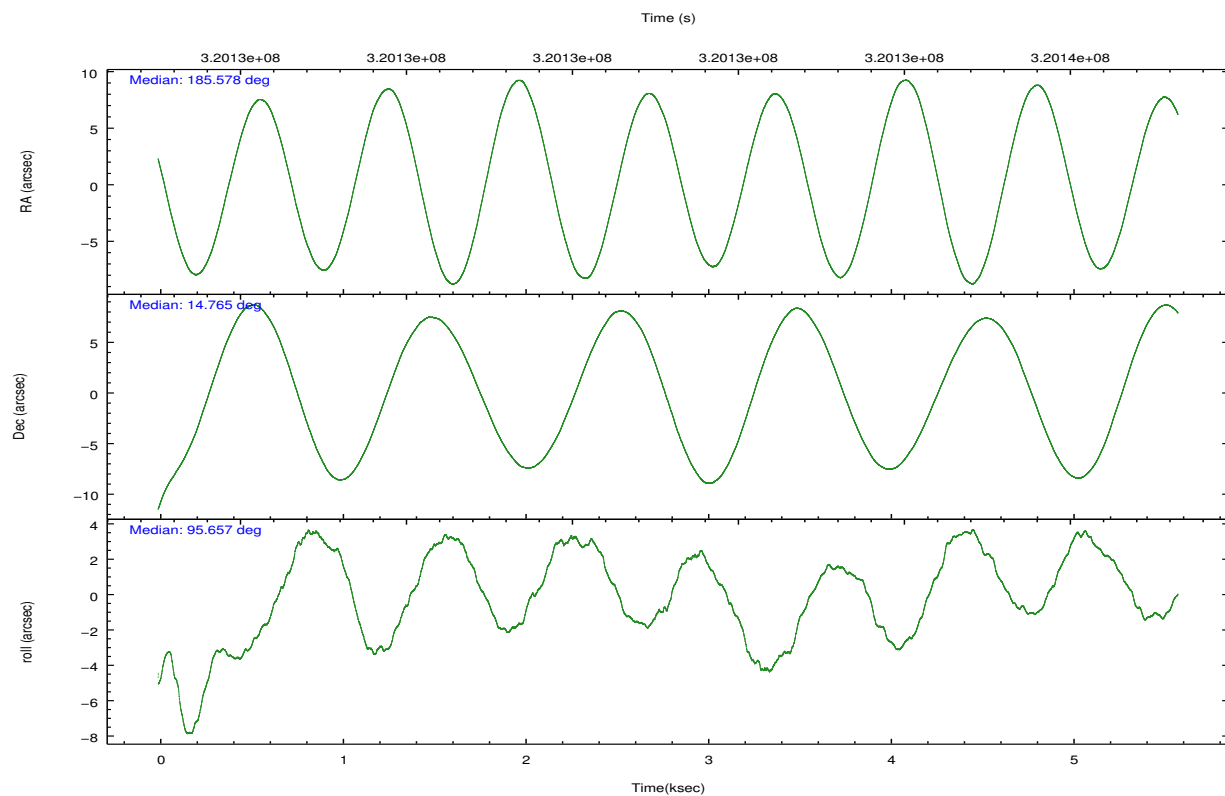
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51815	50686	83696	53479	72963	69259	grade 0 events	2624	2822	4887	2507	2690	4915
rejected events	45656	44396	44371	47052	42537	53526		5%	5%	5%	4%	3%	7%
rejected %	88%	87%	53%	87%	58%	77%	grade 1 events	42	38	111	22	67	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	1399	1178	11999	1421	6188	3408
								2%	2%	14%	2%	8%	4%
							grade 3 events	569	600	1413	584	2553	1673
								1%	1%	1%	1%	3%	2%
							grade 4 events	576	580	1229	597	2547	1577
								1%	1%	1%	1%	3%	2%
							grade 5 events	2124	2395	5949	2590	6907	3555
								4%	4%	7%	4%	9%	5%
							grade 6 events	999	1113	19823	1324	16469	4165
								1%	2%	23%	2%	22%	6%
							grade 7 events	43482	41960	38285	44434	35542	49917
								83%	82%	45%	83%	48%	72%

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	185.595007	185.5781603145639	CCD I2 on	O1	Y
[deg] Pointing Dec	14.742575	14.76458603896698	CCD I3 on	O2	Y
[deg] Pointing Roll	95.501838	95.66275499543269	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	320129962.184000	320128975.16326	CCD S5 on	N	N
Observation start date	2008-02-23T04:58:17	2008-02-23T04:42:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320135362.184000	320135650.47609	On-chip summing requested	N	N
Observation end date	2008-02-23T06:28:17	2008-02-23T06:34:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



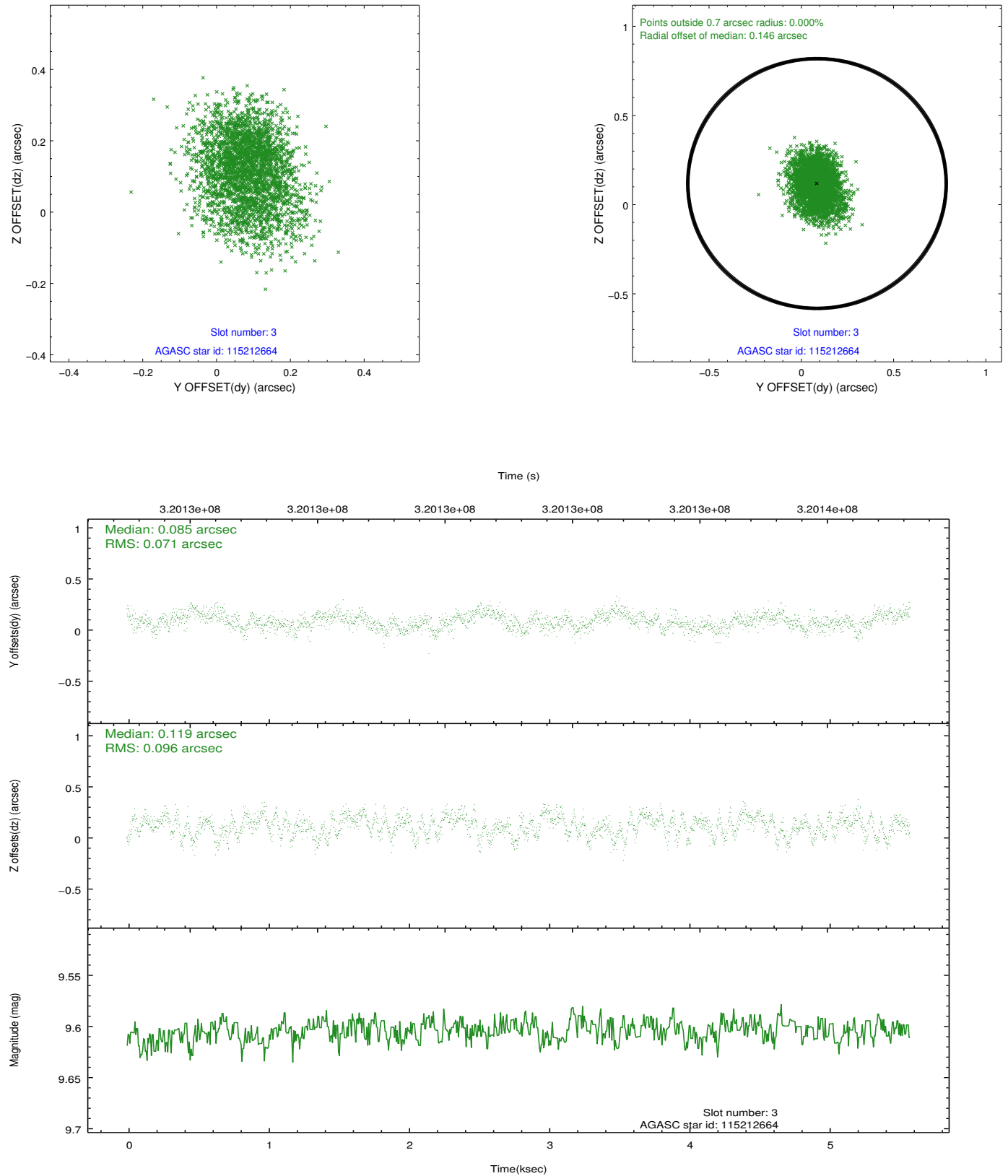


Slot Statistics

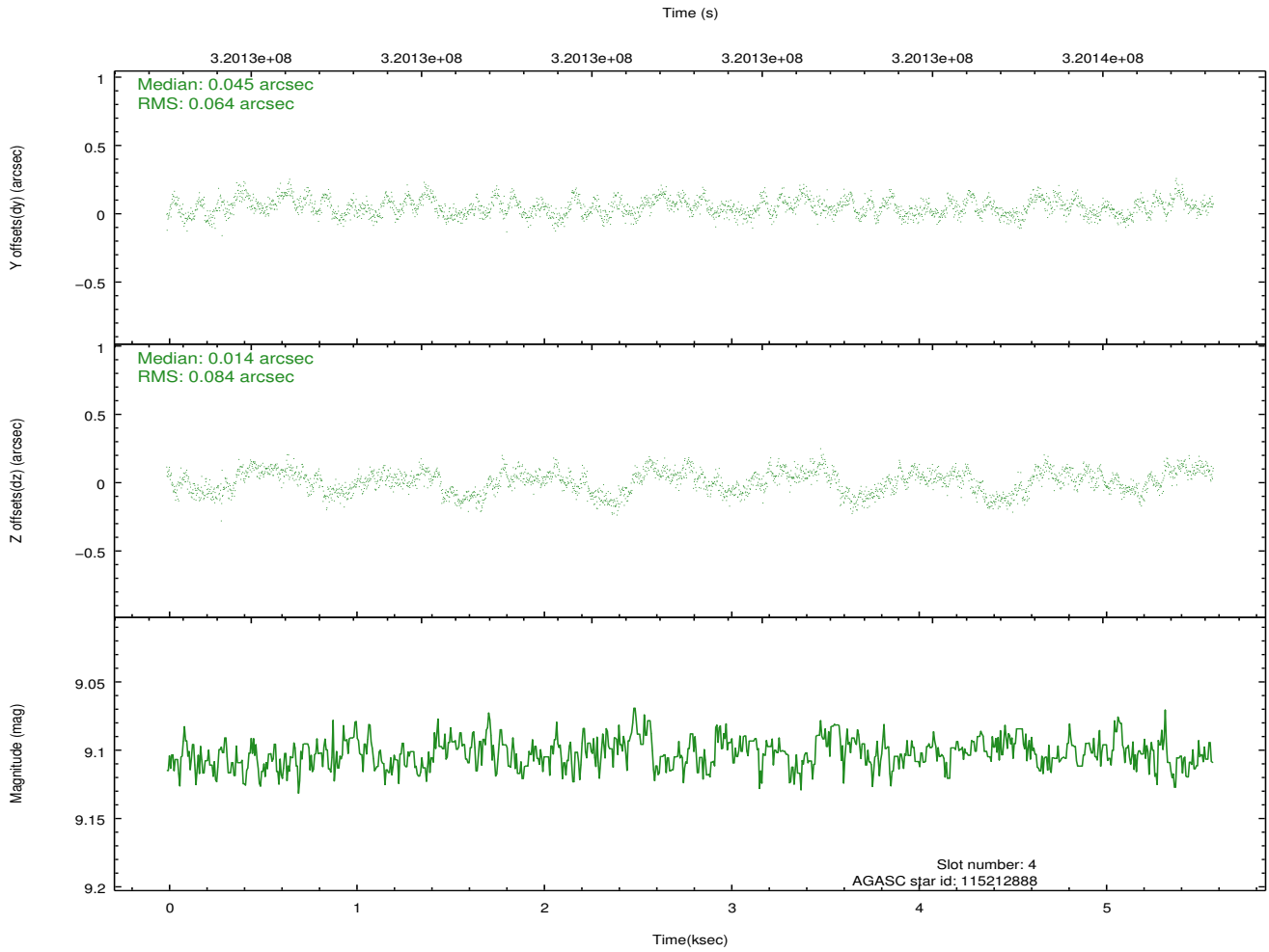
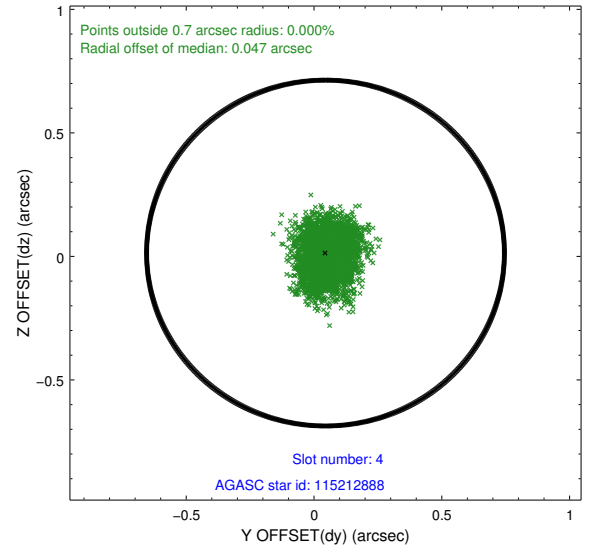
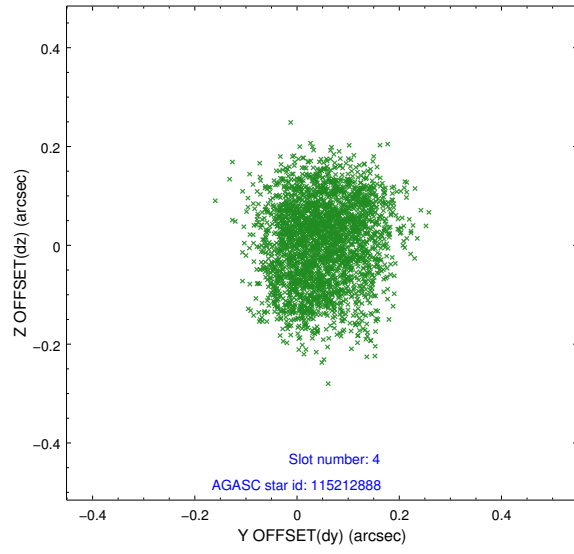
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1362	-0.044	-0.048	0.007	0.011	0.000000	0.000000	-766.05	-1735.54
1	FID	ACIS-S-4	7.19	1362	0.166	0.034	0.006	0.012	0.000000	0.000000	2146.93	171.94
2	FID	ACIS-S-5	7.22	1362	-0.153	0.022	0.007	0.011	0.000000	0.000000	-1817.64	166.78
3	GUIDE	115212664	9.60	2720	0.085	0.119	0.128	0.204	186.112214	14.500161	-1039.85	-1710.37
4	GUIDE	115212888	9.10	2725	0.045	0.014	0.116	0.178	184.962096	14.383434	-1072.75	2319.97
5	GUIDE	115213096	9.64	2717	-0.080	-0.148	0.117	0.184	185.485027	14.844352	400.26	346.48
6	GUIDE	189403680	8.83	2723	-0.251	-0.087	0.085	0.140	185.171503	15.144043	1580.87	1326.30
7	GUIDE	115212792	10.06	2723	0.212	0.117	0.180	0.287	185.976991	14.137385	-2294.48	-1118.04

2.4 Star Slots

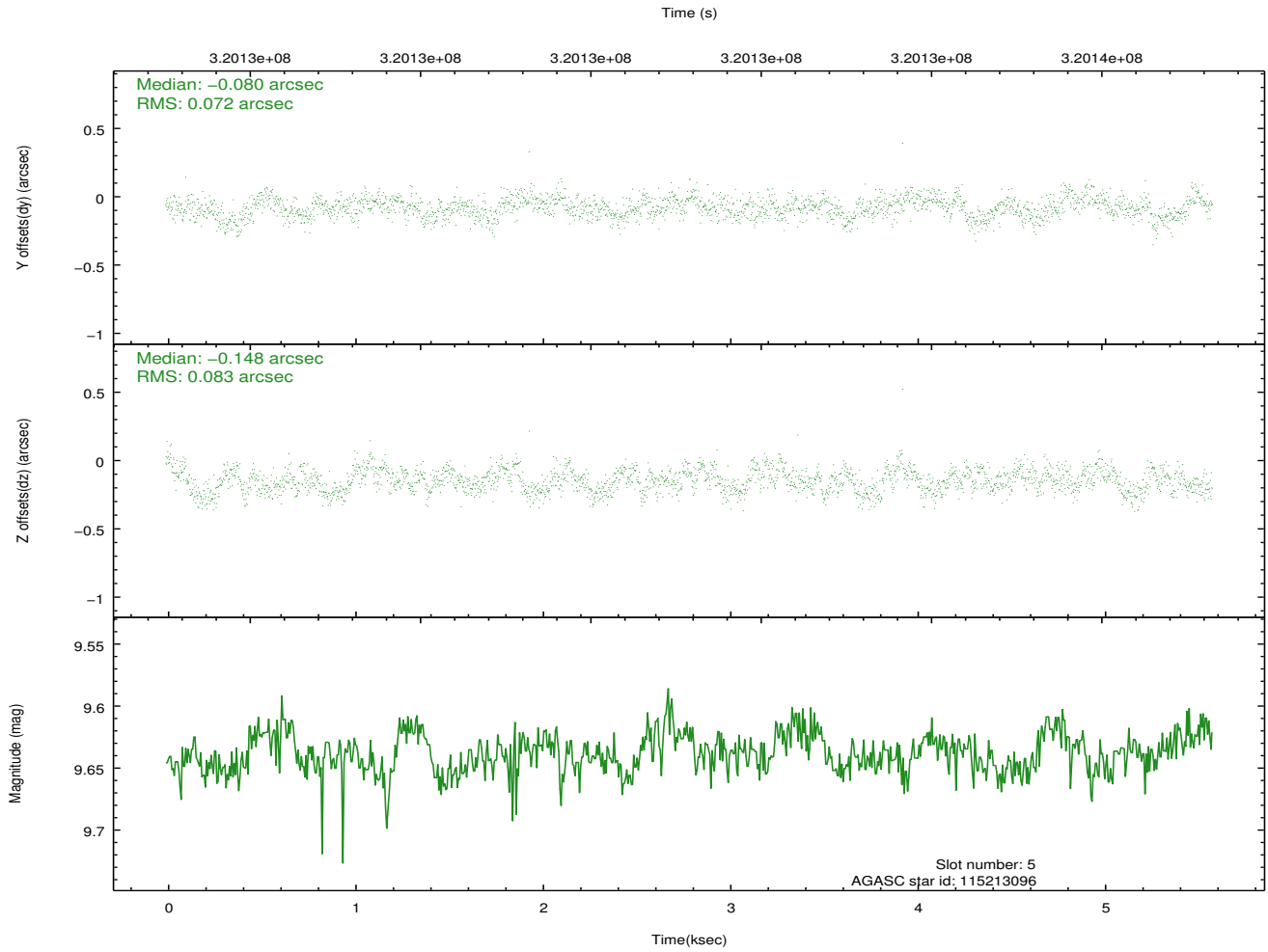
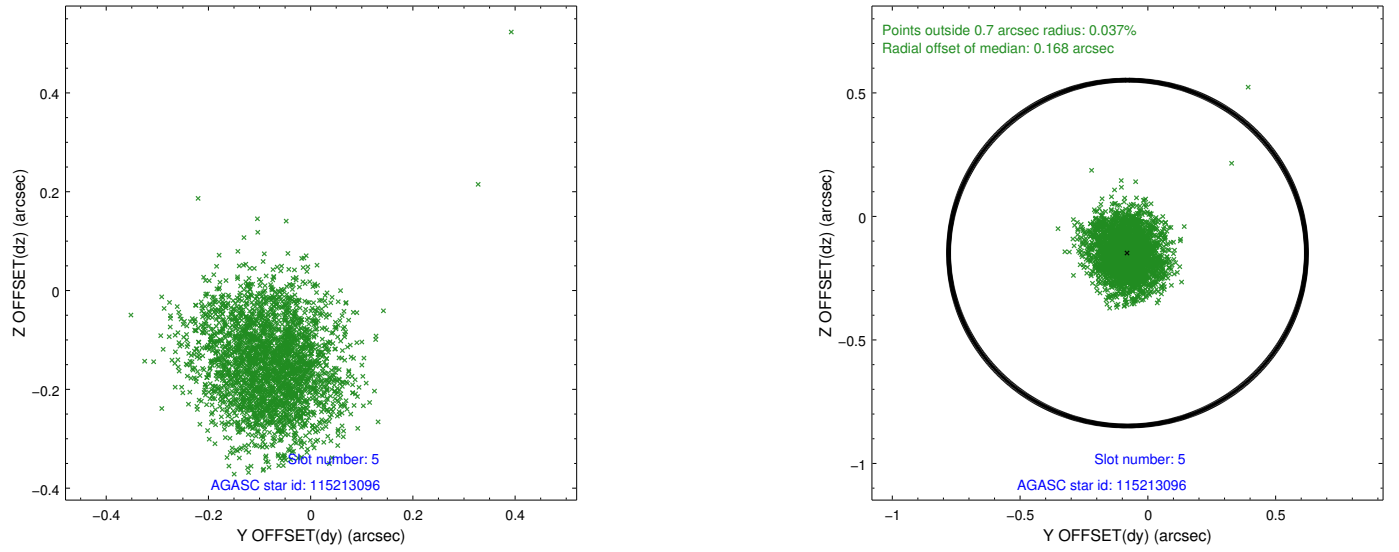
2.4.1 Slot 3



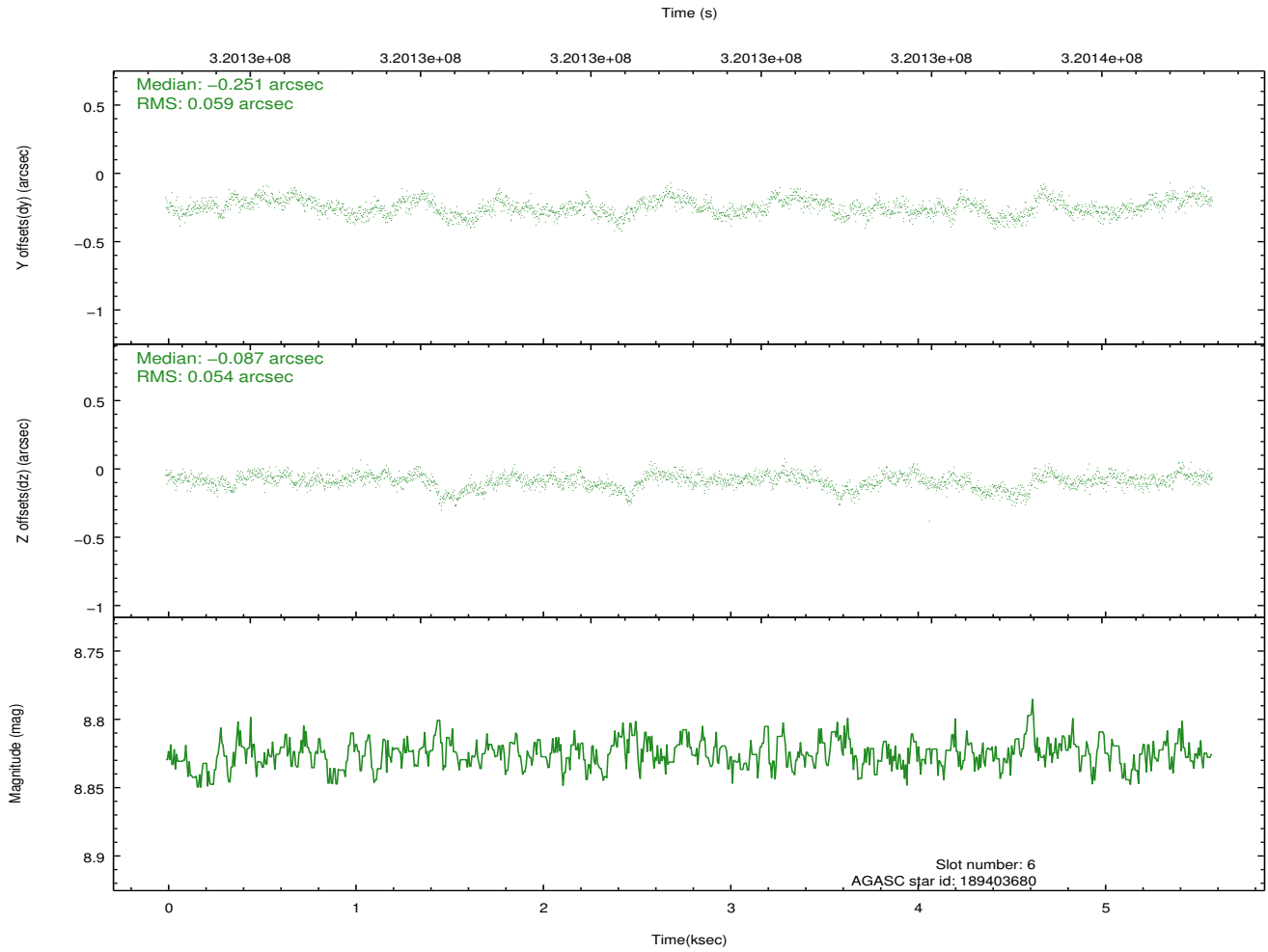
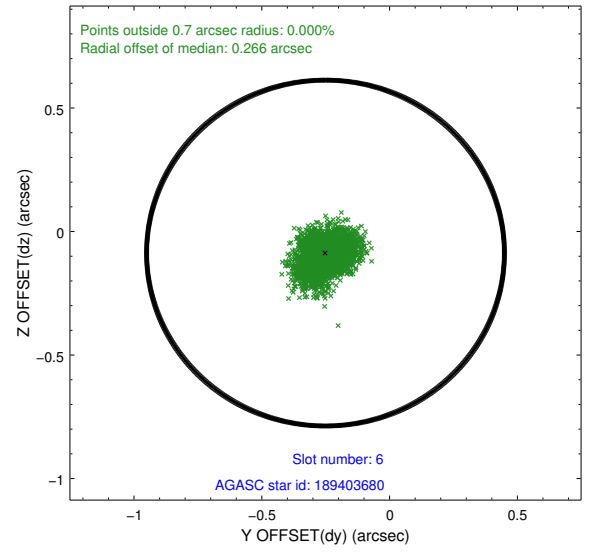
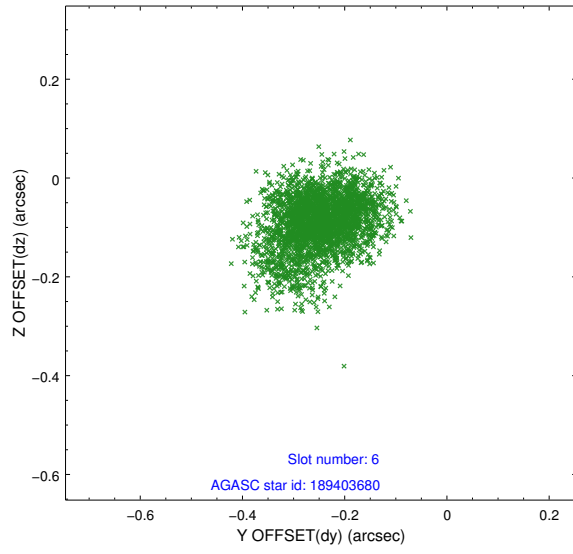
2.4.2 Slot 4



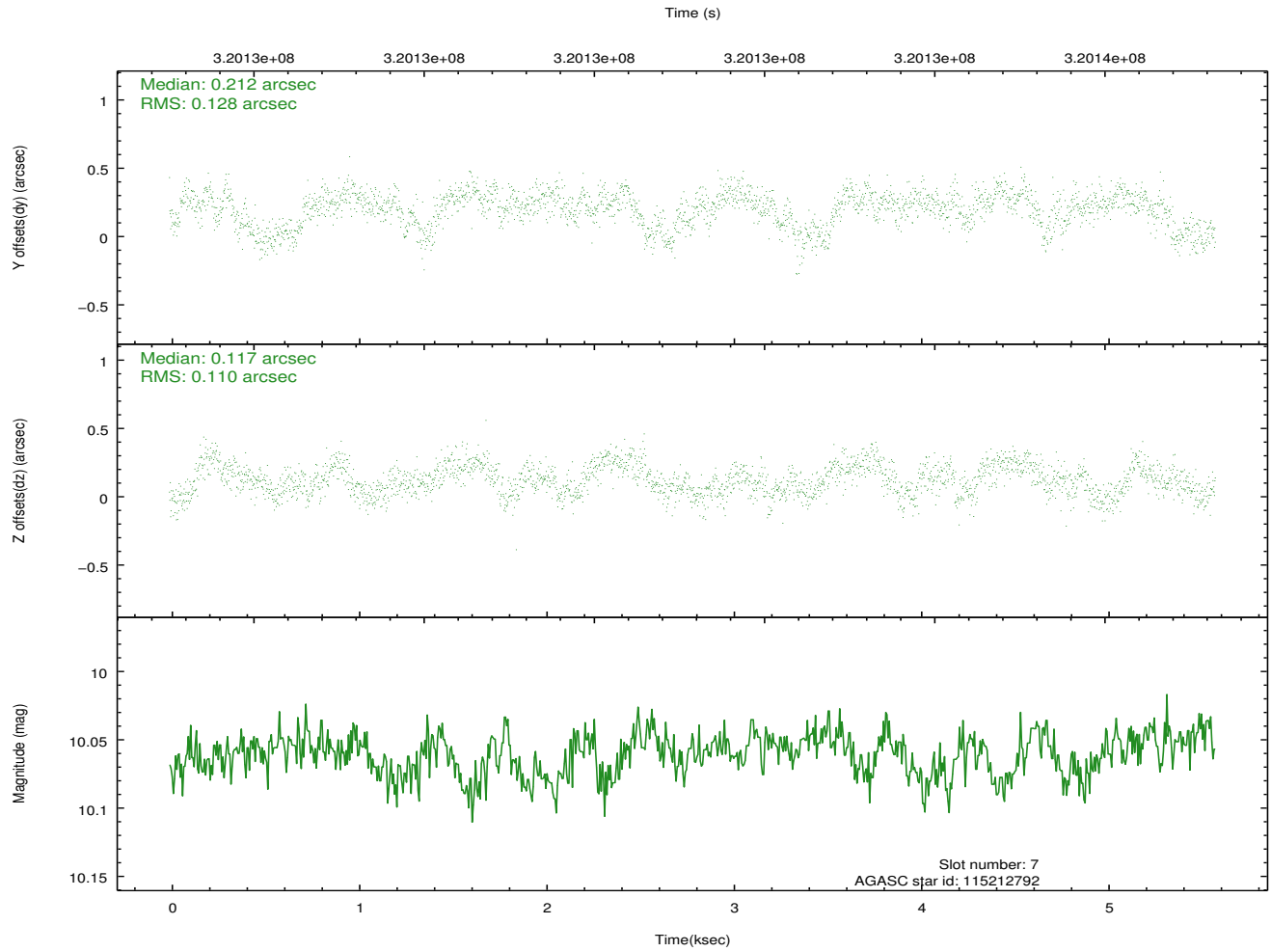
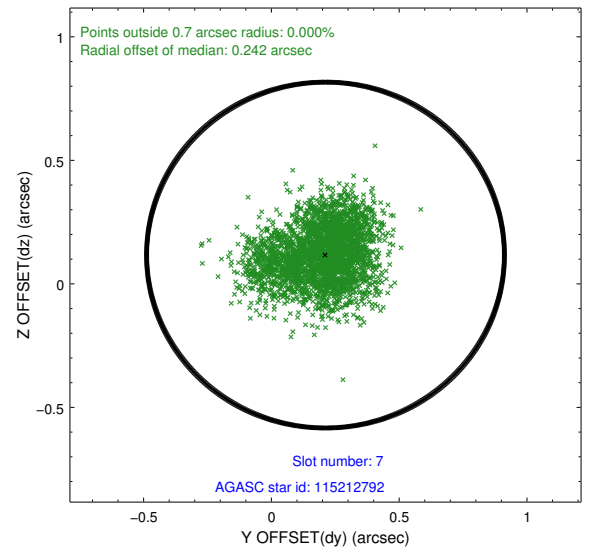
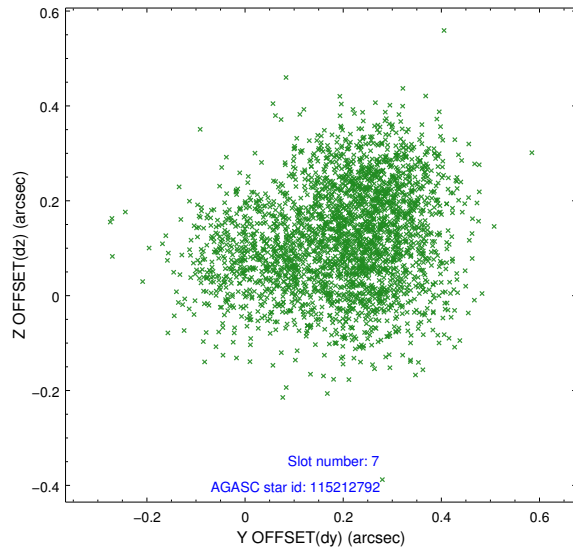
2.4.3 Slot 5



2.4.4 Slot 6

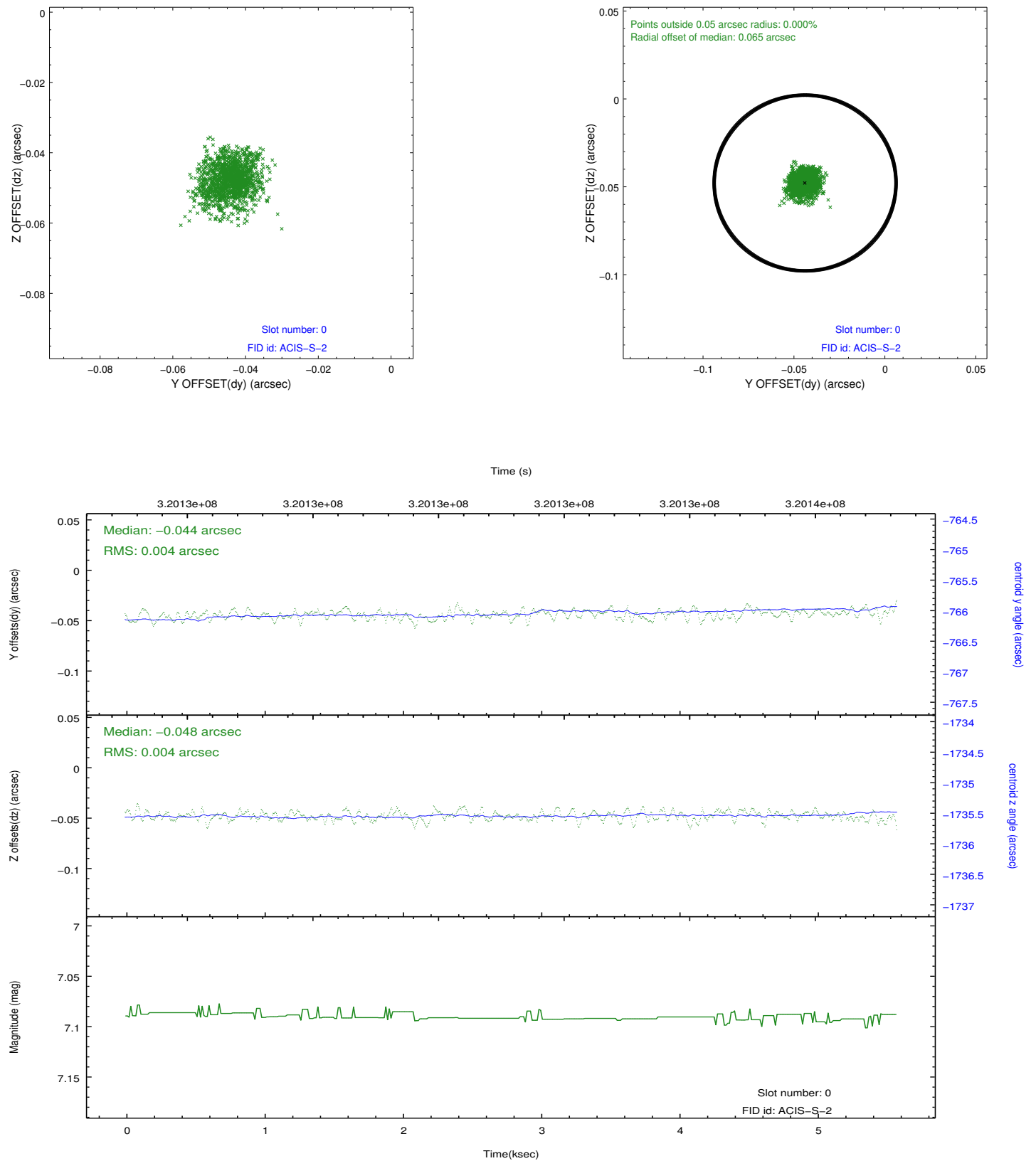


2.4.5 Slot 7

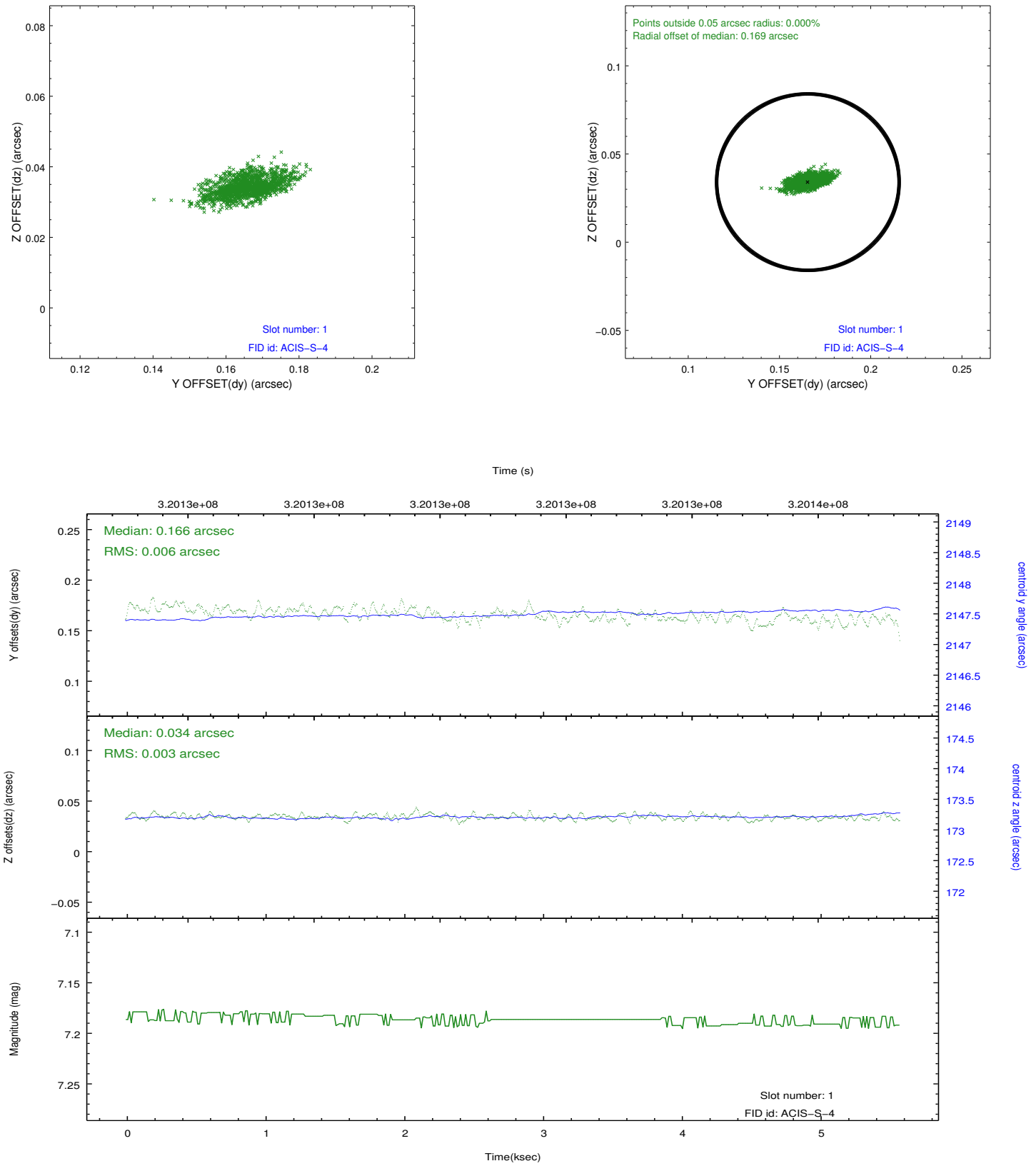


2.5 FID Slots

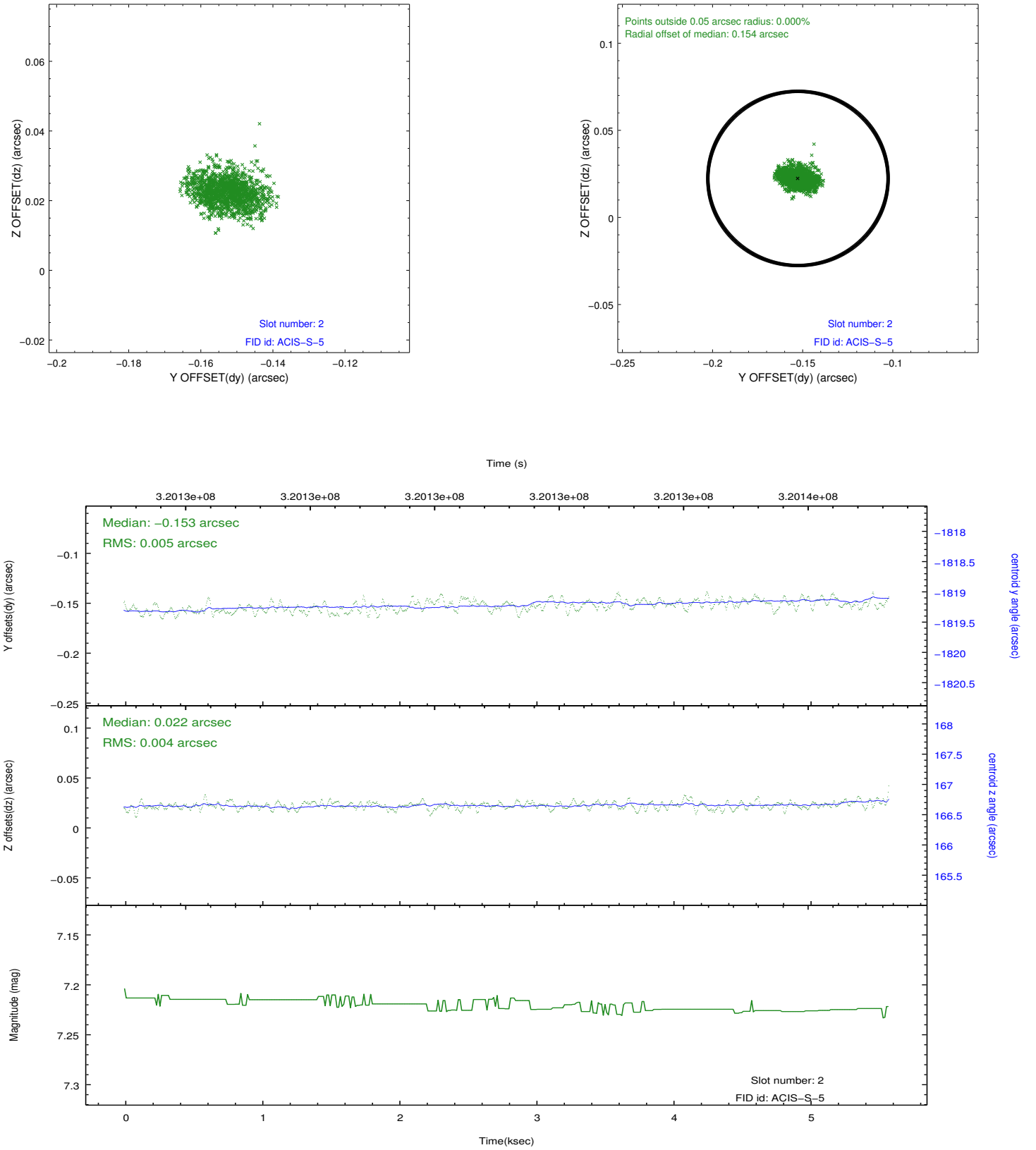
2.5.1 Slot 0



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	5.40479997

A.2 Comments

Joint Proposal:Spitzer