

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8045 - L2 Version 2
Chandra X-Ray Center

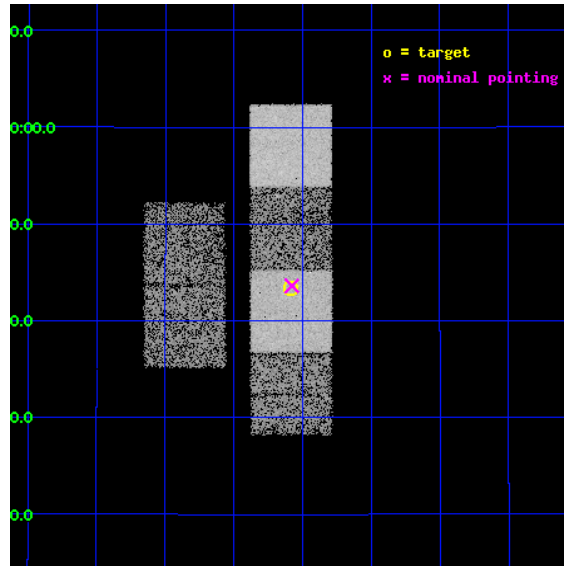
L2 Processing Date : May 9 2012

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1 Front

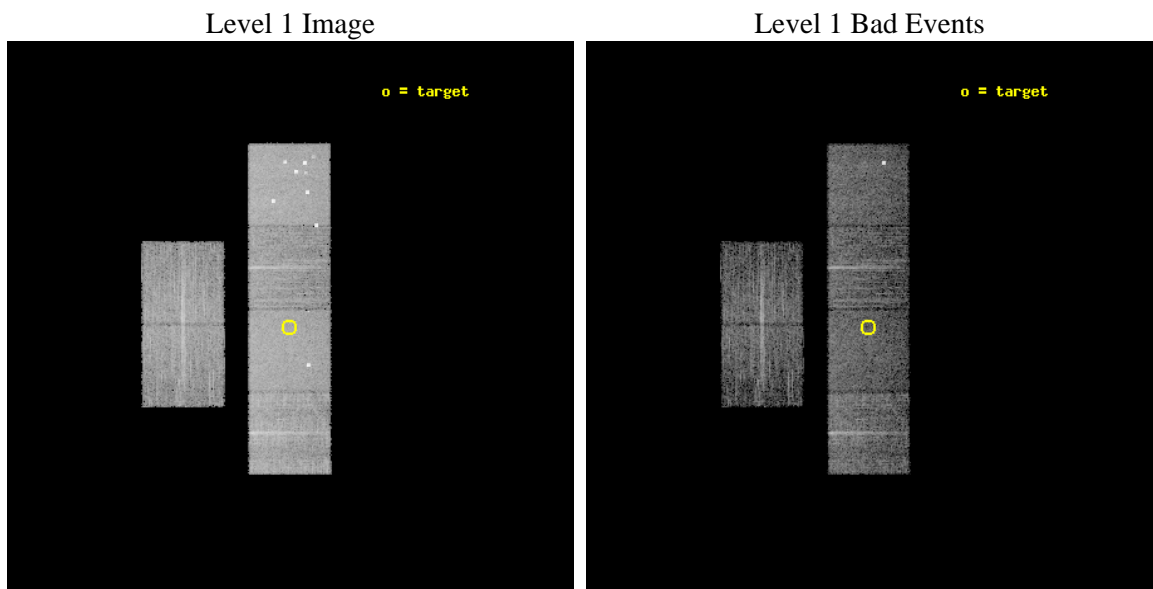
seq_num	900586	Sequence number
obs_id	8045	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	654	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.897083	Observer's specified target RA [deg]
dec_targ	16.722861	Observer's specified target Dec [deg]
ra_nom	185.89438321805	Nominal RA [deg]
dec_nom	16.726935400937	Nominal Dec [deg]
roll_nom	89.849524298491	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5154.280649662	Sum of GTIs [s]
livetime	5089.0140445408	Livetime [s]
ontime2	5154.3216896653	Sum of GTIs [s]
ontime3	5154.1575296521	Sum of GTIs [s]
ontime5	5154.2396096587	Sum of GTIs [s]
ontime6	5154.1985696554	Sum of GTIs [s]
ontime7	5154.280649662	Sum of GTIs [s]
ontime8	5150.875449717	Sum of GTIs [s]
l2events	79444	Number of level 2 events



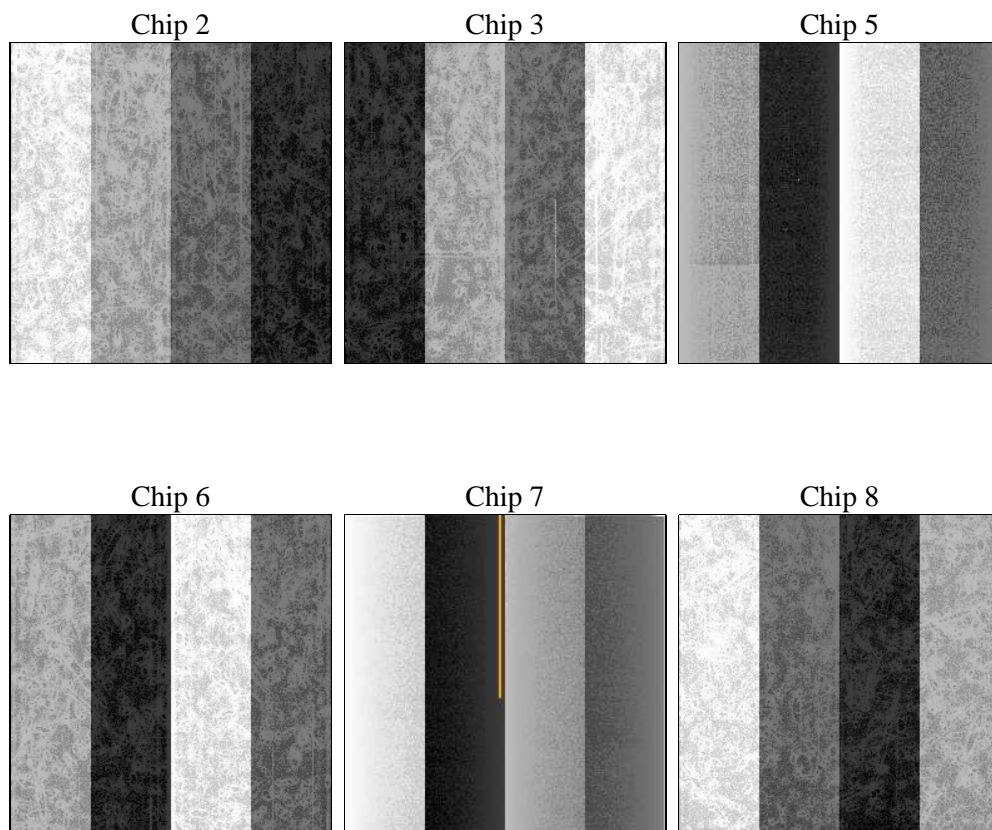
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5154.280649662	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5154.3216896653	Sum of GTIs [s]
date	2012-05-09T18:35:02	Date and time of file creation	ontime3	5154.1575296521	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5154.2396096587	Sum of GTIs [s]
			ontime6	5154.1985696554	Sum of GTIs [s]
			ontime7	5154.280649662	Sum of GTIs [s]
			ontime8	5150.875449717	Sum of GTIs [s]
			l1events	361660	Number of level 1 events

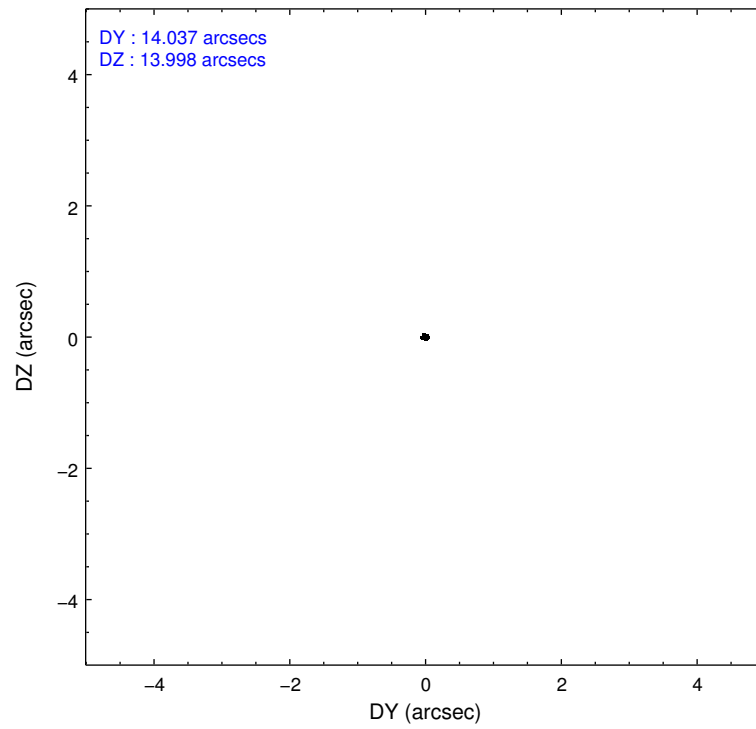
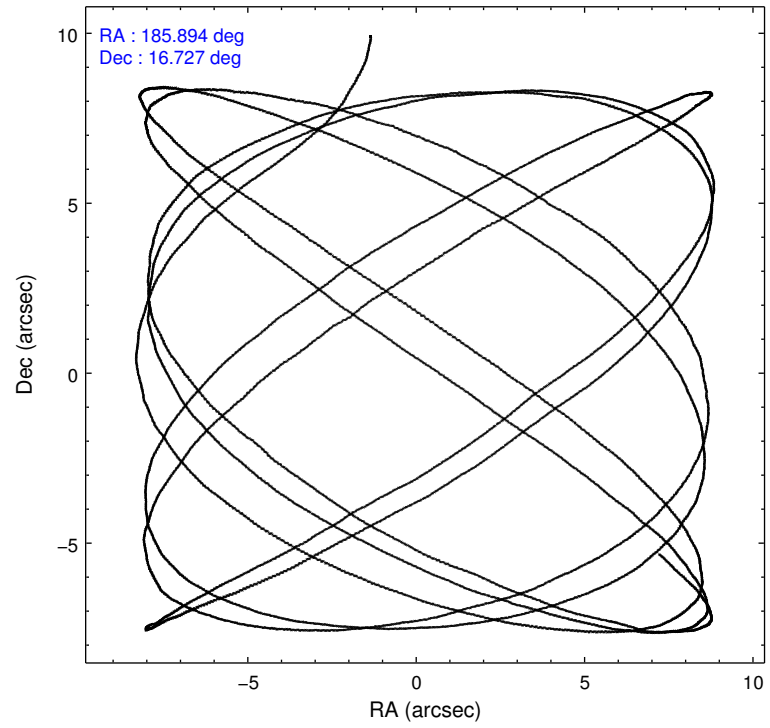
2.1.4 Events

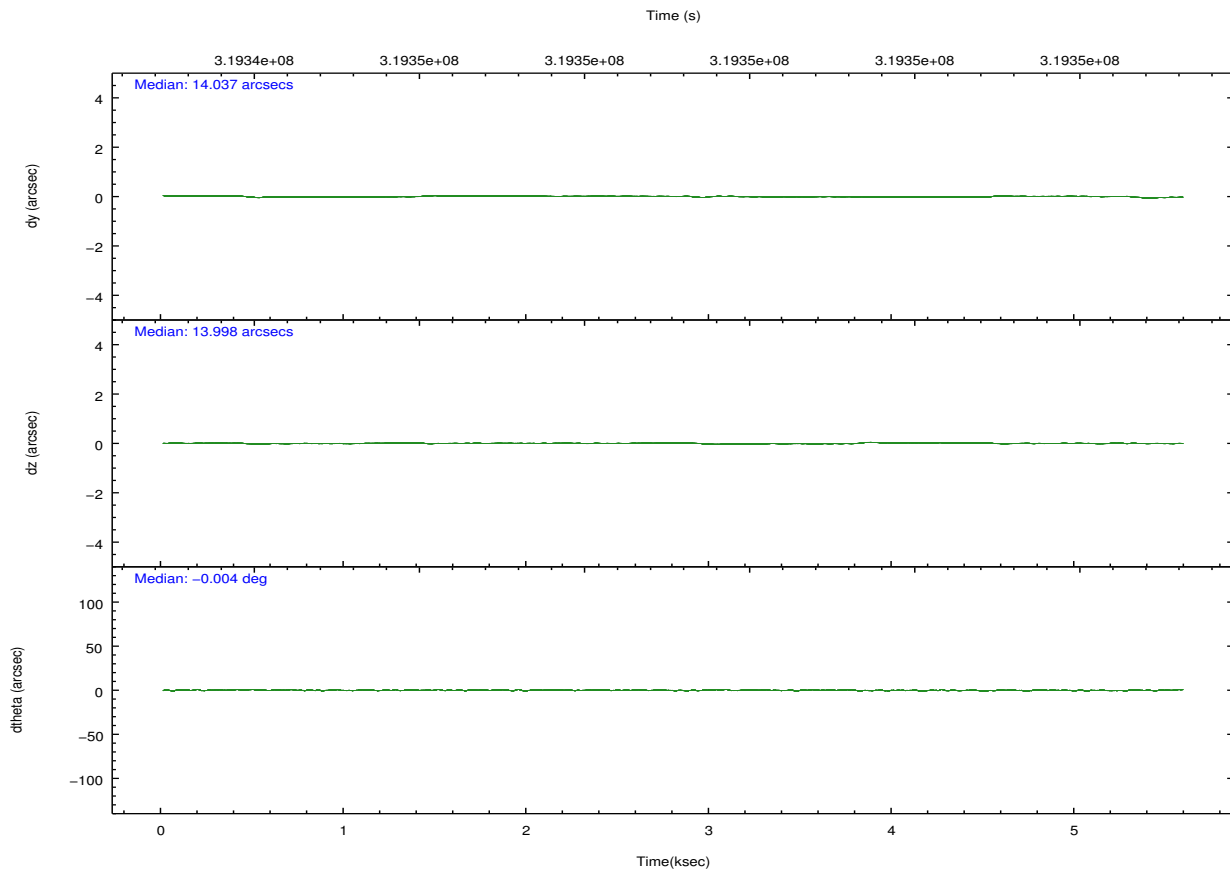
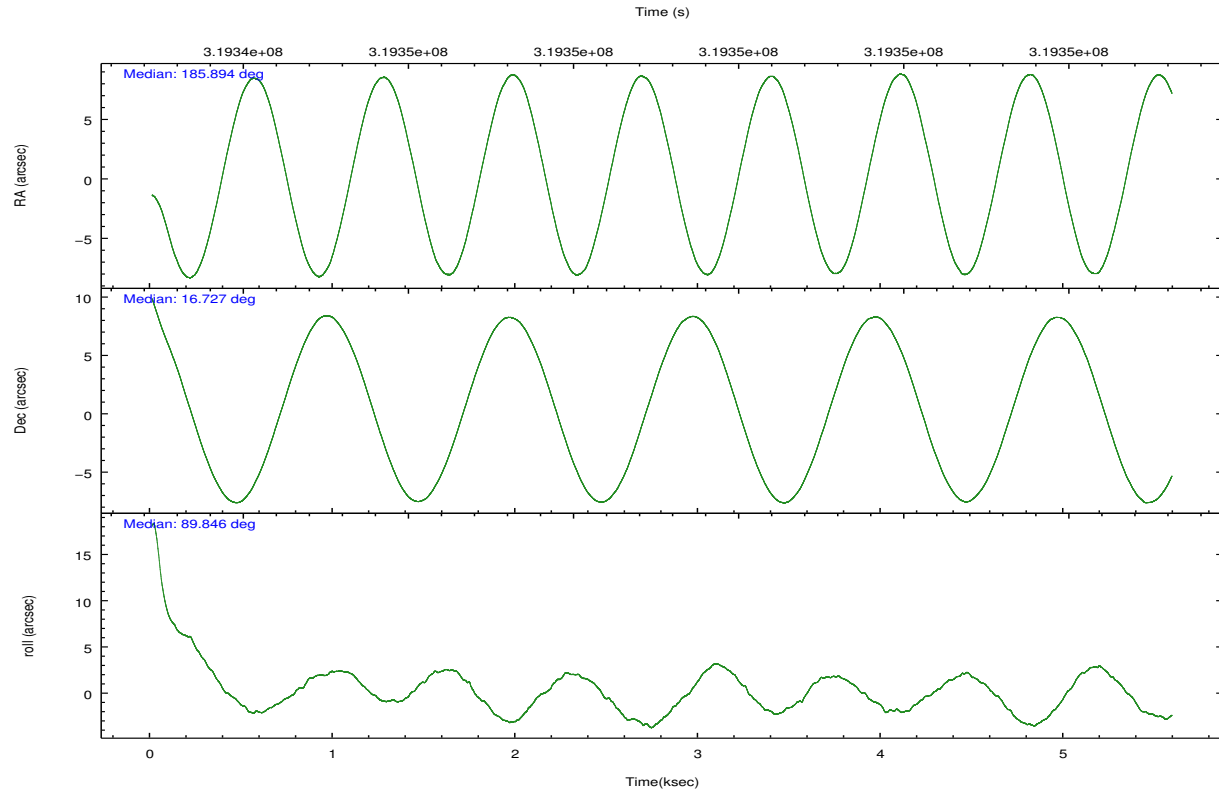
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49595	46544	83396	48098	69025	65002	grade 0 events	2234	2426	7309	2230	3868	4366
rejected events	44181	40872	42664	42316	39769	51254		4%	5%	8%	4%	5%	6%
rejected %	89%	87%	51%	87%	57%	78%	grade 1 events	37	27	112	38	80	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	1145	1114	11177	1304	5664	3080
								2%	2%	13%	2%	8%	4%
							grade 3 events	525	538	1220	582	2283	1380
								1%	1%	1%	1%	3%	2%
							grade 4 events	529	562	1079	499	2296	1305
								1%	1%	1%	1%	3%	2%
							grade 5 events	1989	2332	5203	2279	6218	2930
								4%	5%	6%	4%	9%	4%
							grade 6 events	987	1046	20002	1173	15193	3666
								1%	2%	23%	2%	22%	5%
							grade 7 events	42149	38499	37294	39993	33423	48215
								84%	82%	44%	83%	48%	74%

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	185.908988	185.8943832180488	CCD I2 on	O1	Y
[deg] Pointing Dec	16.703466	16.72693540093664	CCD I3 on	O2	Y
[deg] Pointing Roll	89.688674	89.84952429849146	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)	319344935.184000	319344266.38767	CCD S5 on	N	N
Observation start date	2008-02-14T02:54:30	2008-02-14T02:44:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319350335.184000	319350609.60048	On-chip summing requested	N	N
Observation end date	2008-02-14T04:24:30	2008-02-14T04:30:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



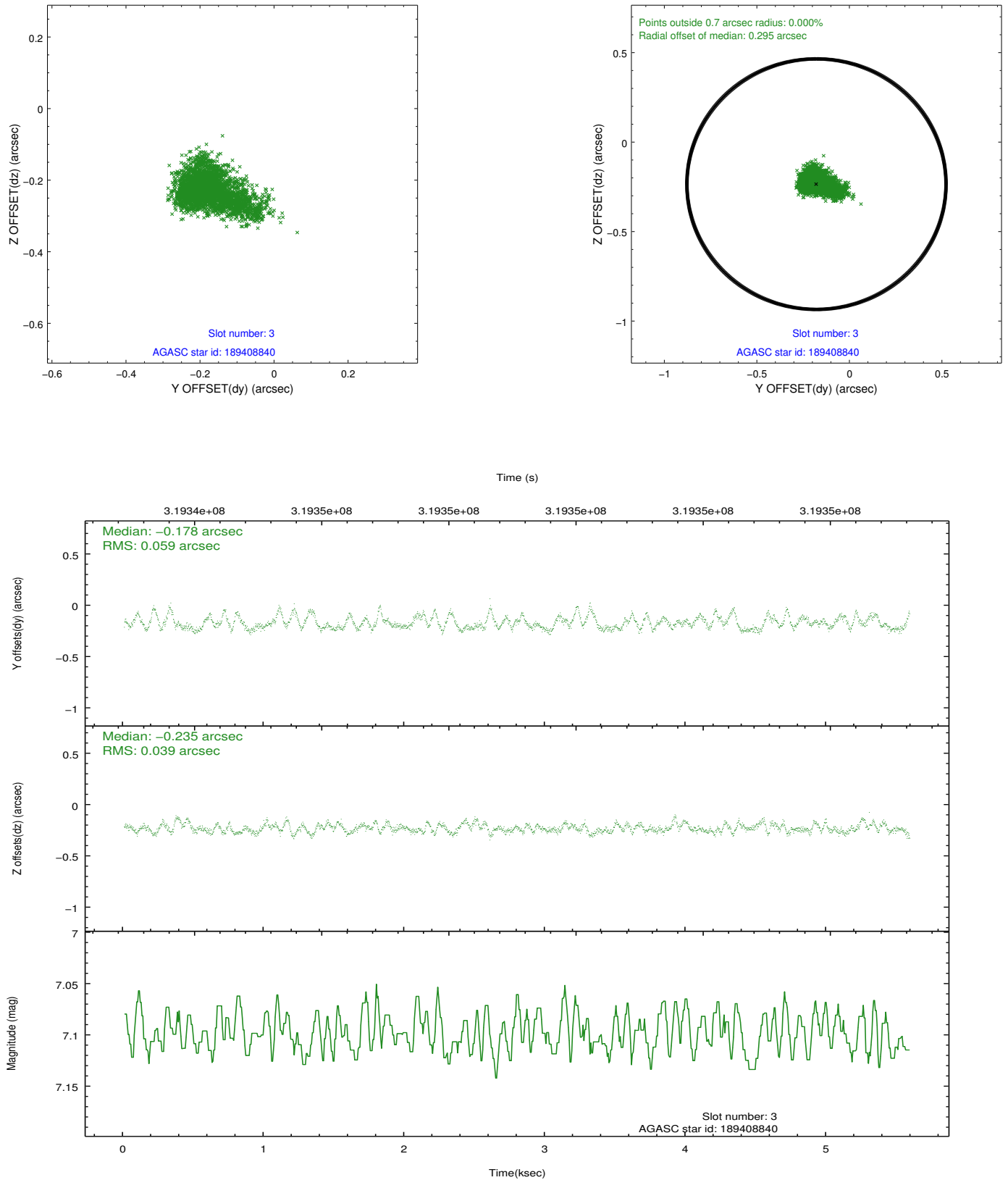


Slot Statistics

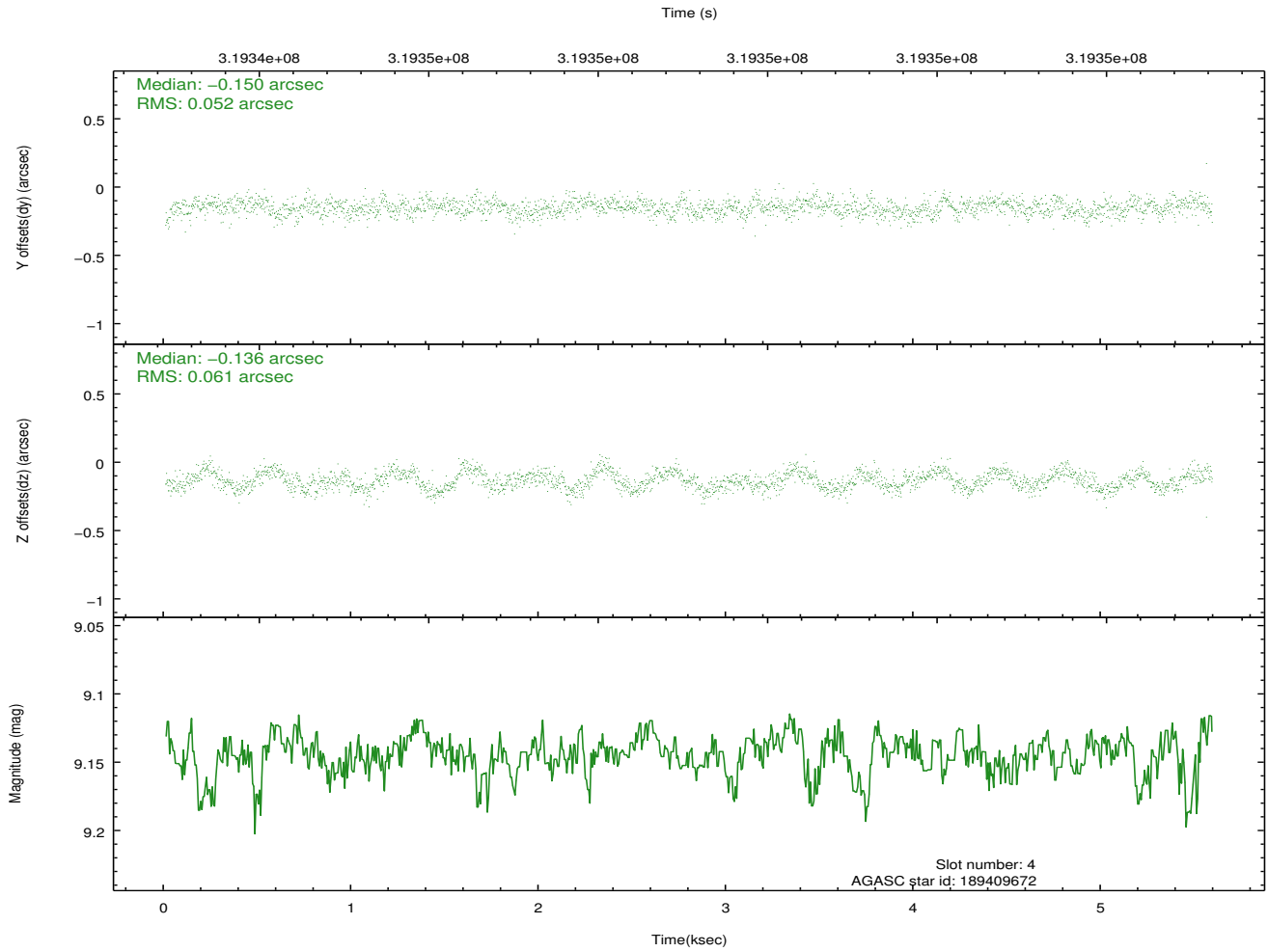
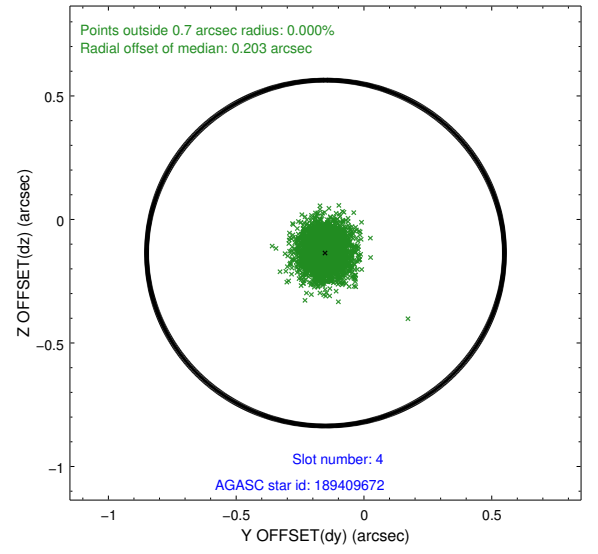
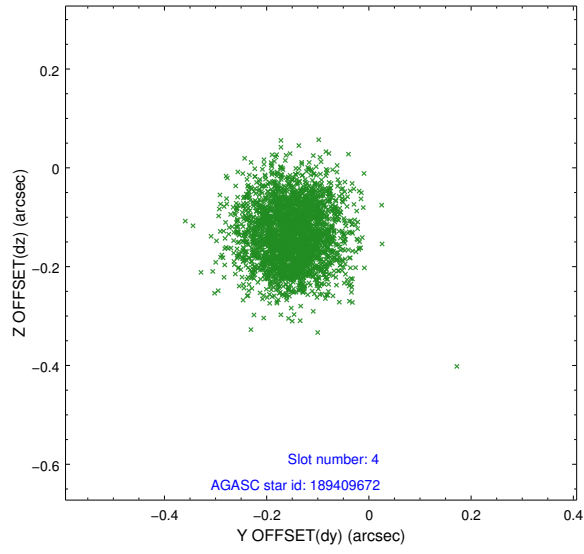
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.065	-0.062	0.007	0.011	0.000000	0.000000	-767.04	-1735.36
1	FID	ACIS-S-4	7.19	1362	0.195	0.048	0.006	0.010	0.000000	0.000000	2146.00	172.12
2	FID	ACIS-S-5	7.23	1362	-0.161	0.023	0.007	0.011	0.000000	0.000000	-1818.61	166.99
3	GUIDE	189408840	7.10	2725	-0.178	-0.235	0.072	0.129	185.508645	16.744732	142.44	1381.08
4	GUIDE	189409672	9.14	2722	-0.150	-0.136	0.085	0.136	185.549167	17.344732	2303.22	1249.53
5	GUIDE	189411792	7.91	2724	0.120	0.180	0.058	0.092	186.226855	16.194788	-1822.90	-1108.34
6	GUIDE	189412368	9.07	2722	0.059	0.158	0.094	0.150	186.600821	16.354974	-1237.66	-2396.73
7	GUIDE	189413016	8.12	2723	0.143	0.033	0.061	0.098	186.364497	16.171398	-1904.94	-1586.29

2.4 Star Slots

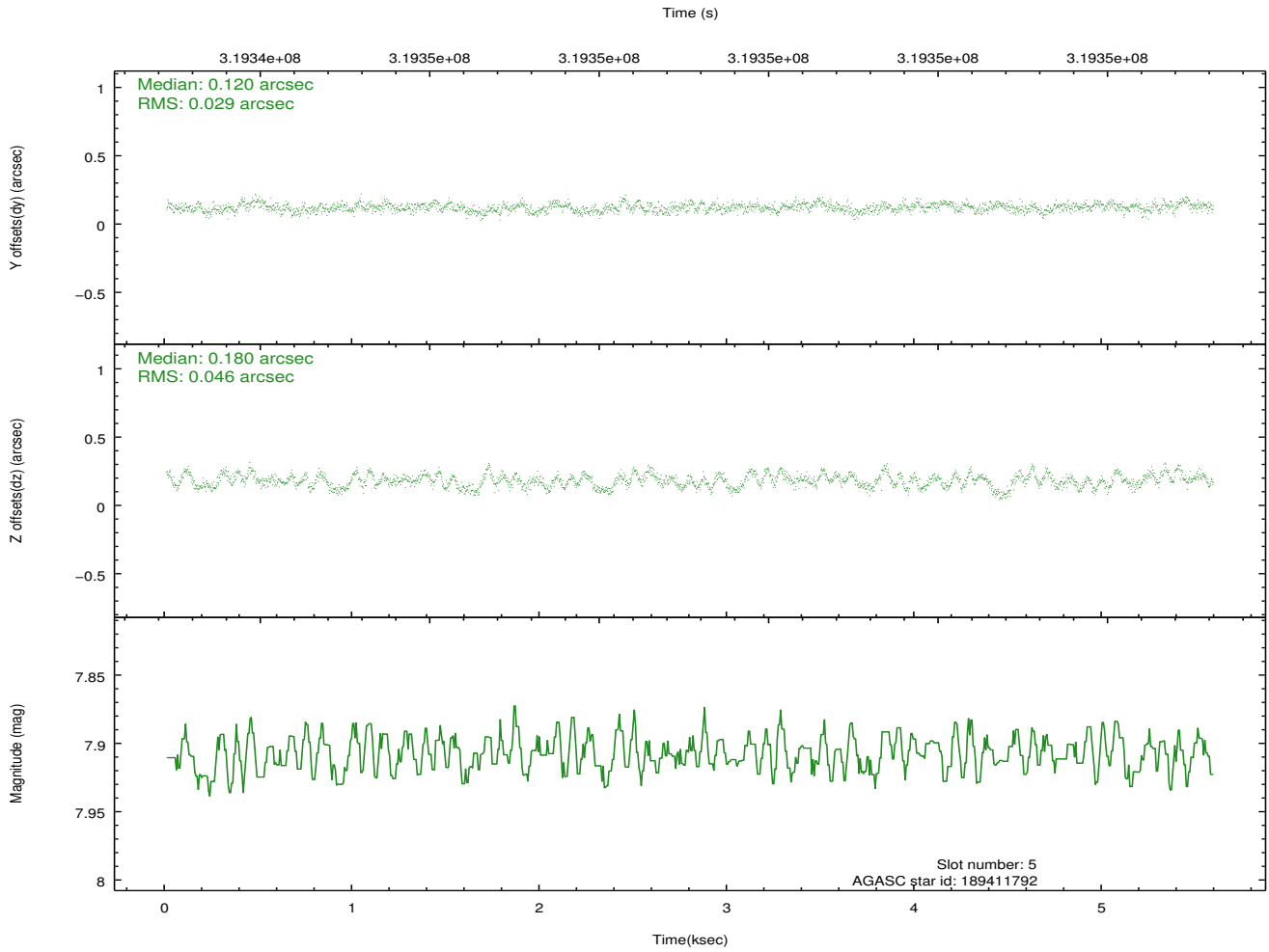
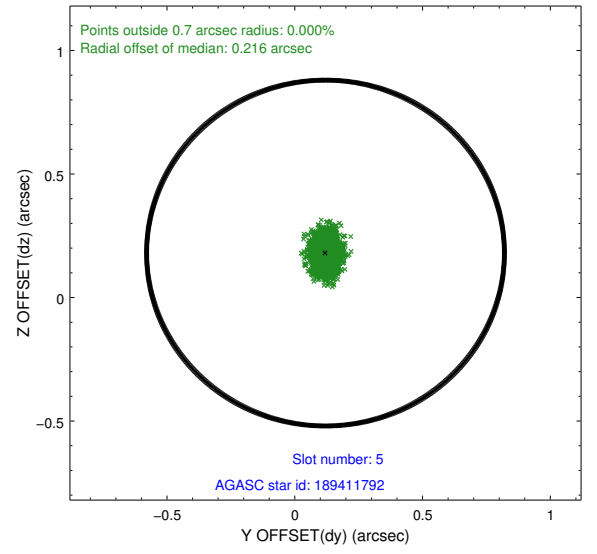
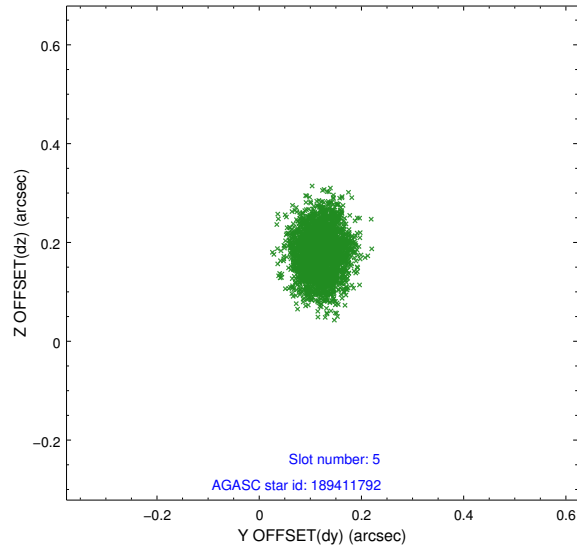
2.4.1 Slot 3



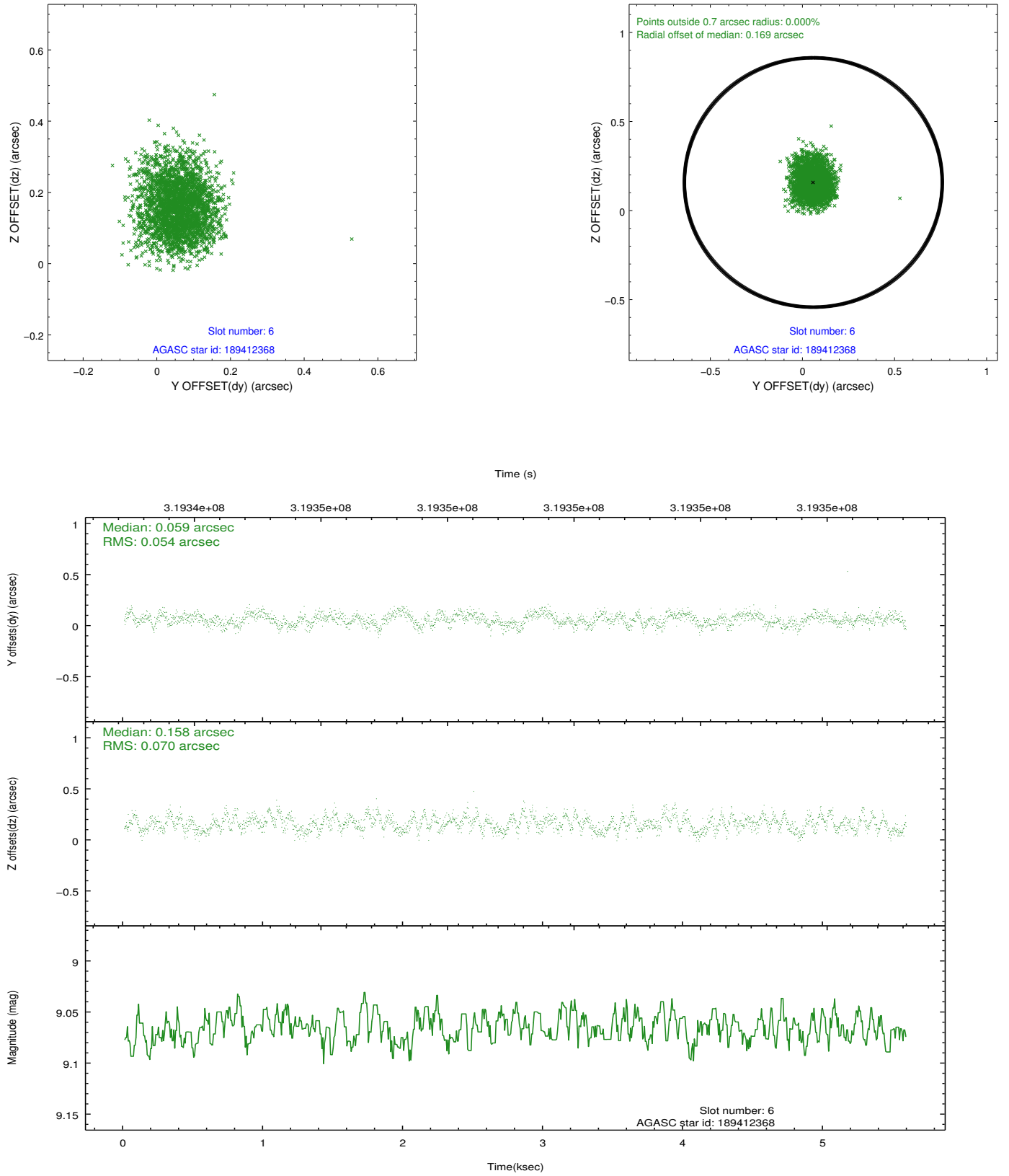
2.4.2 Slot 4



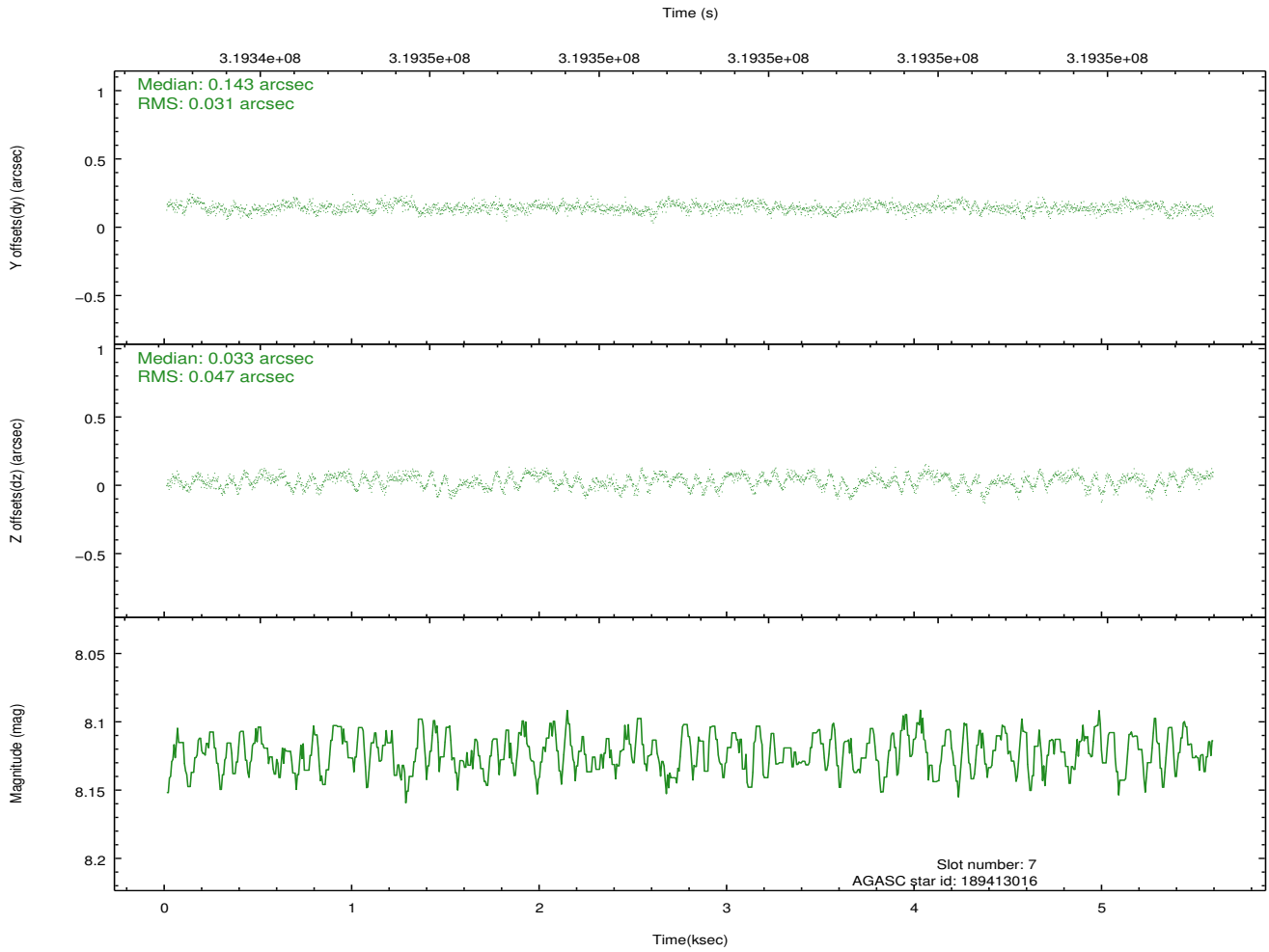
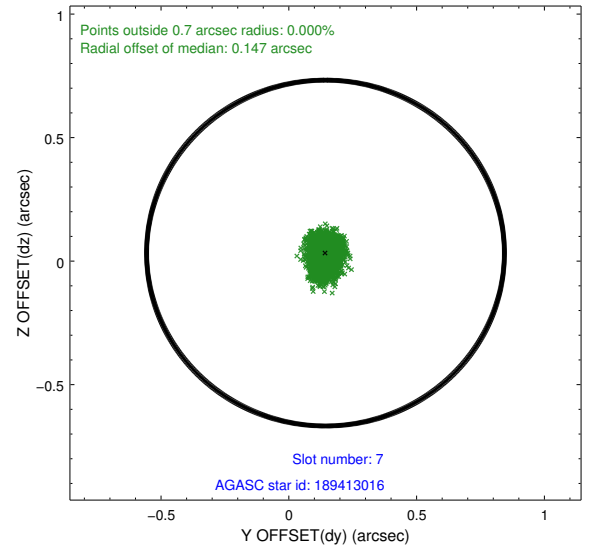
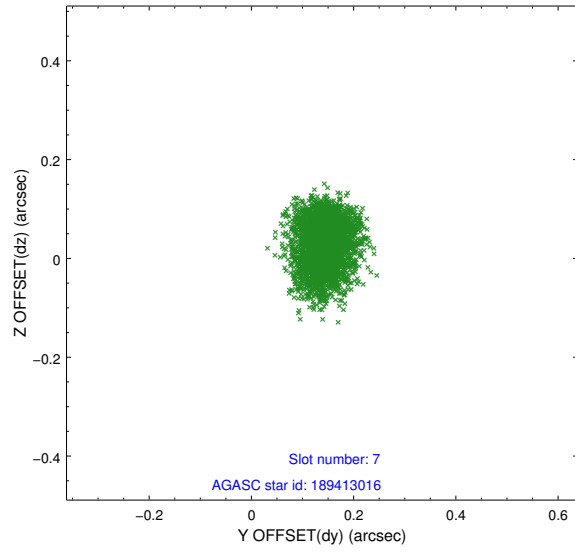
2.4.3 Slot 5



2.4.4 Slot 6

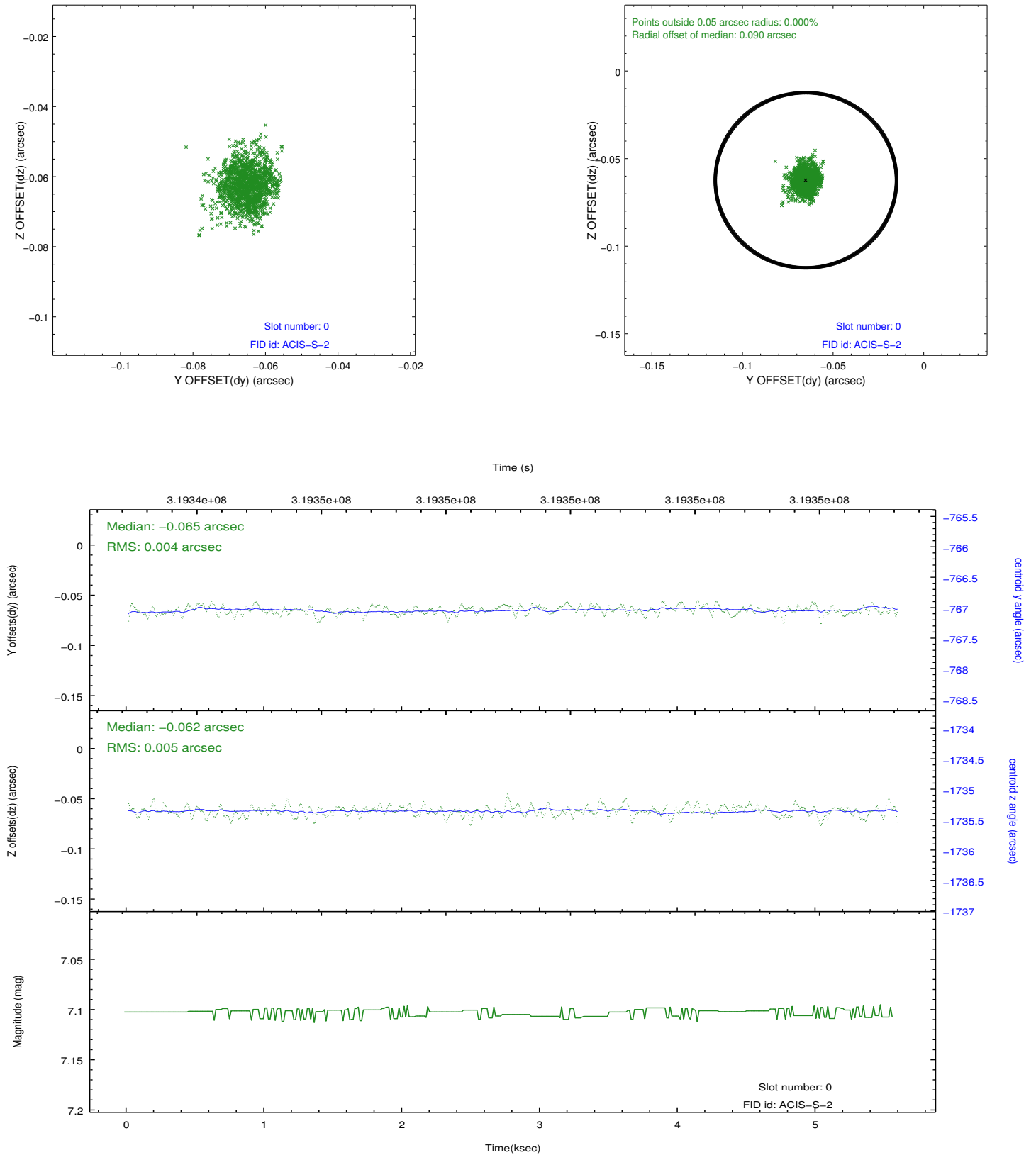


2.4.5 Slot 7

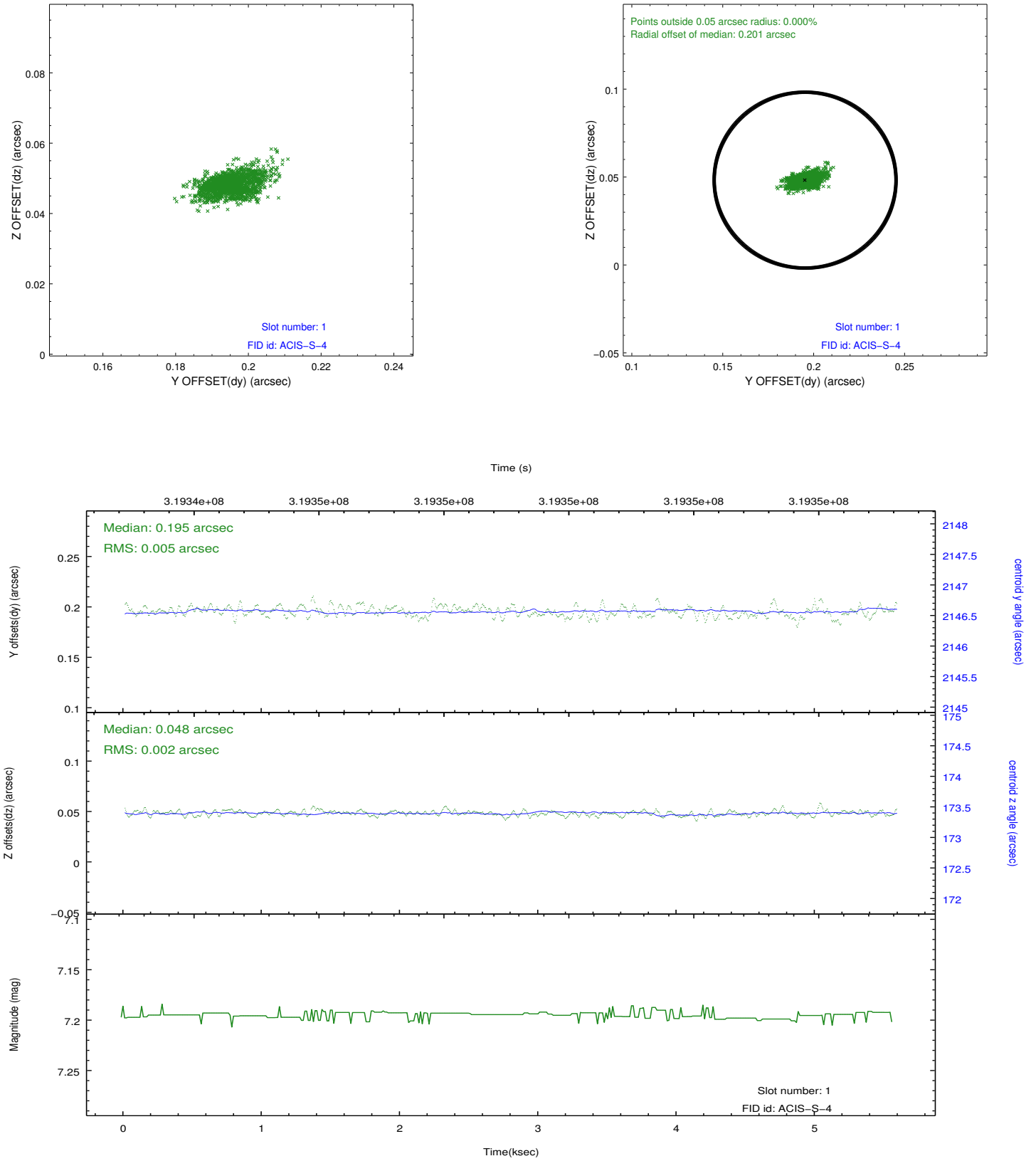


2.5 FID Slots

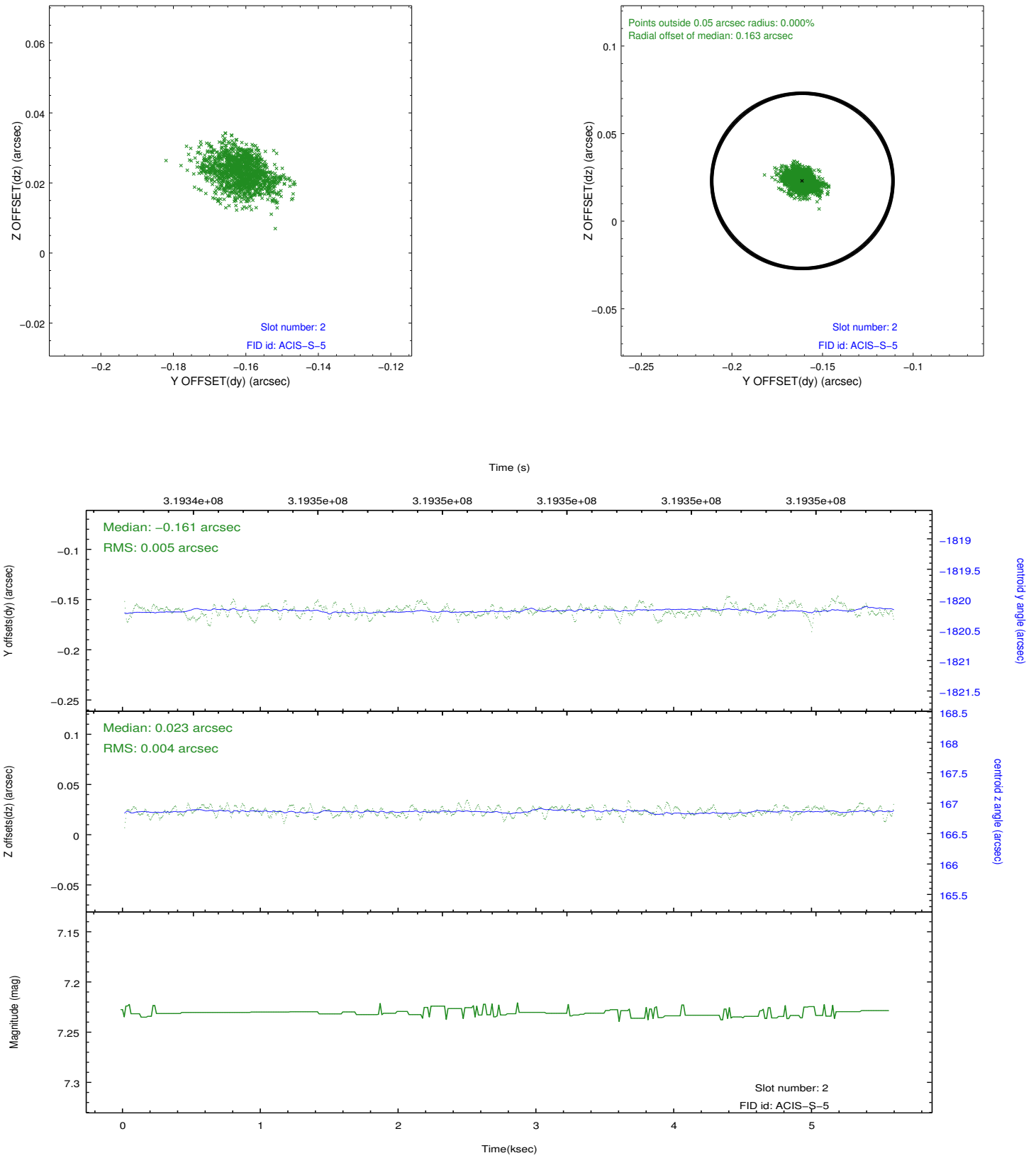
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint proposal: Spitzer