

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18893 - L2 Version 1
Chandra X-Ray Center

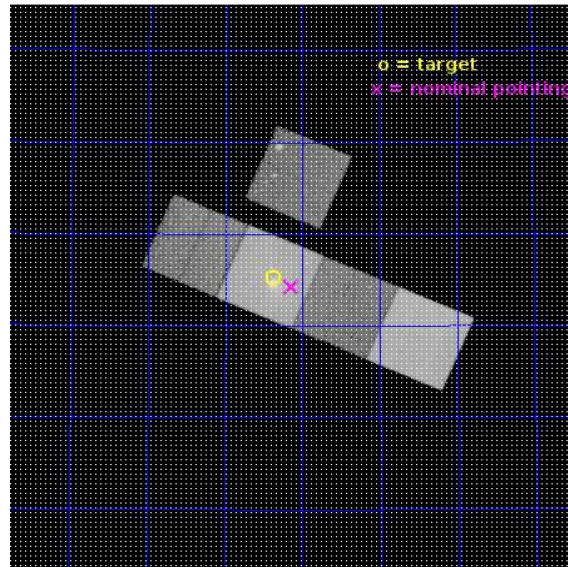
L2 Processing Date : Jul 22 2017

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1 Front

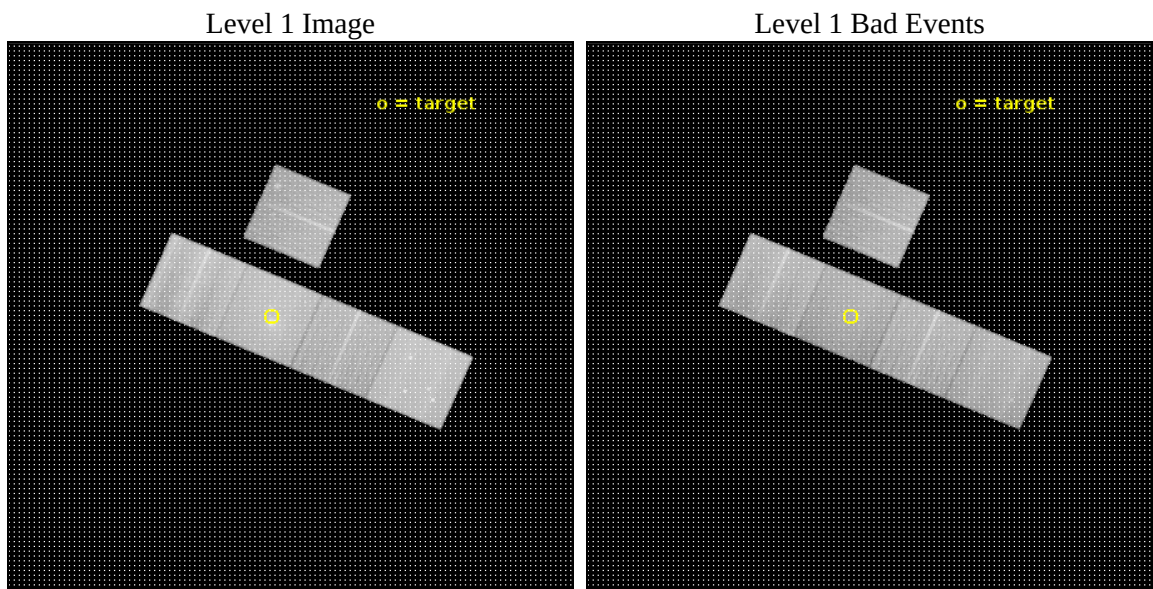
seq_num	801656	Sequence number
obs_id	18893	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.78593202242	Nominal RA [deg]
dec_nom	57.404683525801	Nominal Dec [deg]
roll_nom	203.20608998331	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45171.836795688	Sum of GTIs [s]
livetime	44581.63349293	Livetime [s]
ontime3	45162.290794969	Sum of GTIs [s]
ontime5	45171.795755744	Sum of GTIs [s]
ontime6	45159.190824986	Sum of GTIs [s]
ontime7	45171.836795688	Sum of GTIs [s]
ontime8	45168.531635523	Sum of GTIs [s]
l2events	567197	Number of level 2 events



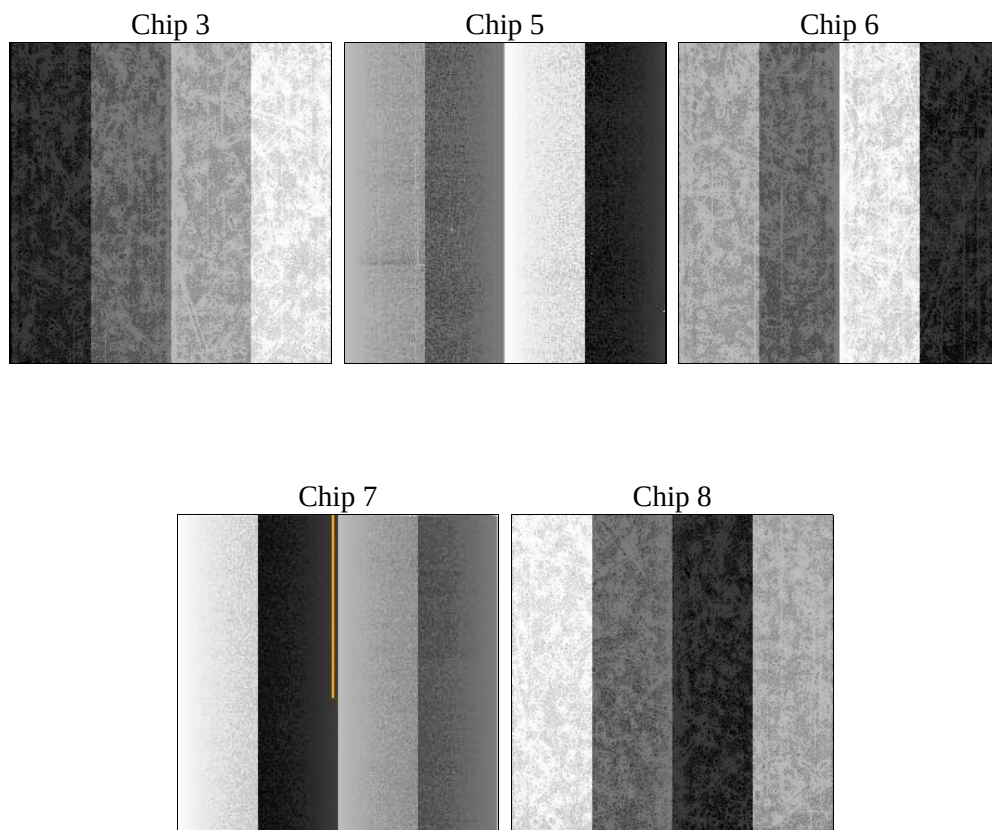
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45120.252000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	45171.836795688	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	45162.290794969	Sum of GTIs [s]
date	2017-07-23T02:56:00	Date and time of file creation	ontime5	45171.795755744	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	45159.190824986	Sum of GTIs [s]
			ontime7	45171.836795688	Sum of GTIs [s]
			ontime8	45168.531635523	Sum of GTIs [s]
			l1events	2059736	Number of level 1 events

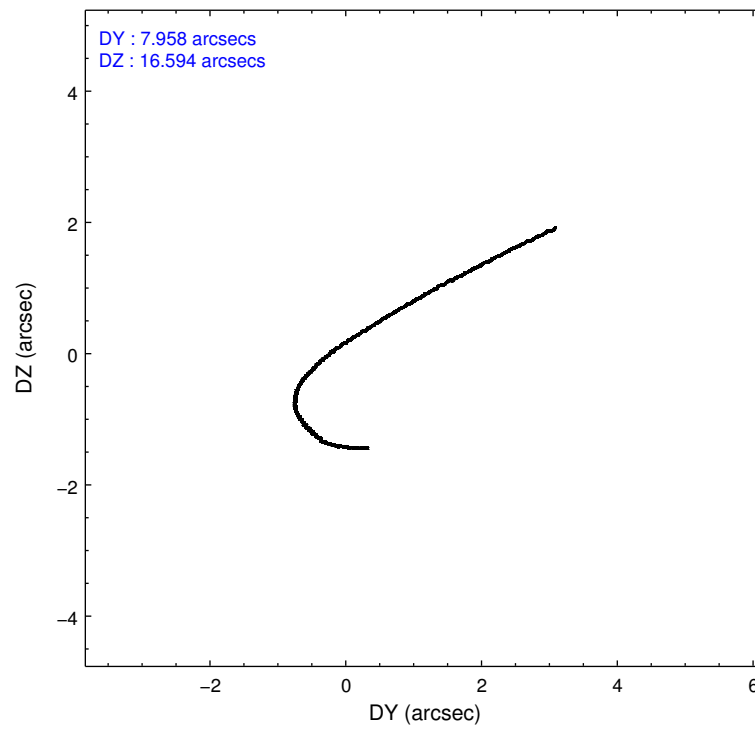
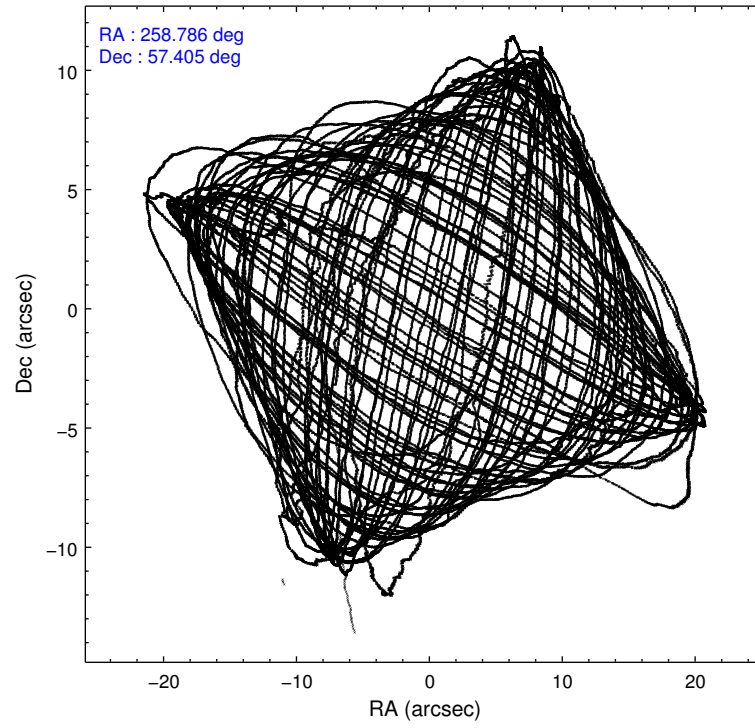
2.1.4 Events

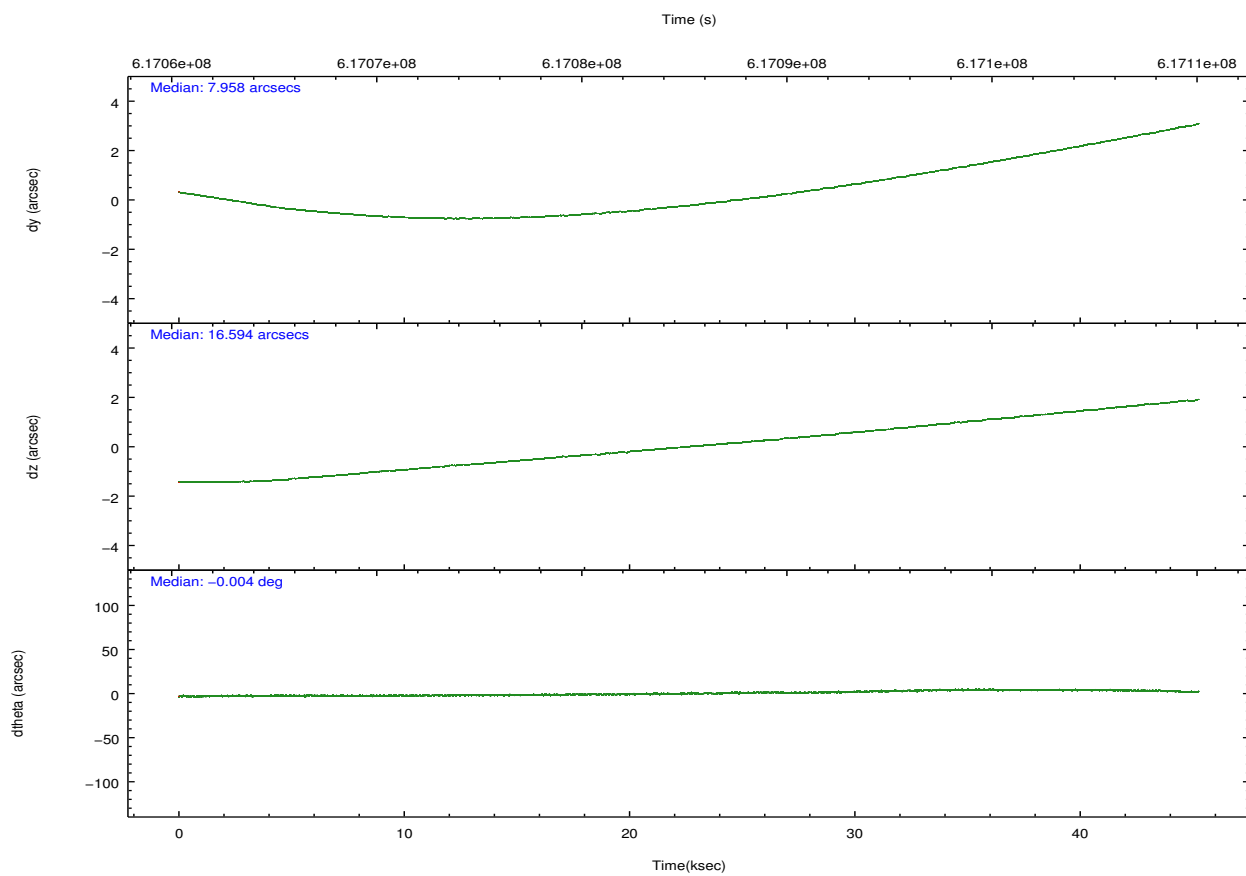
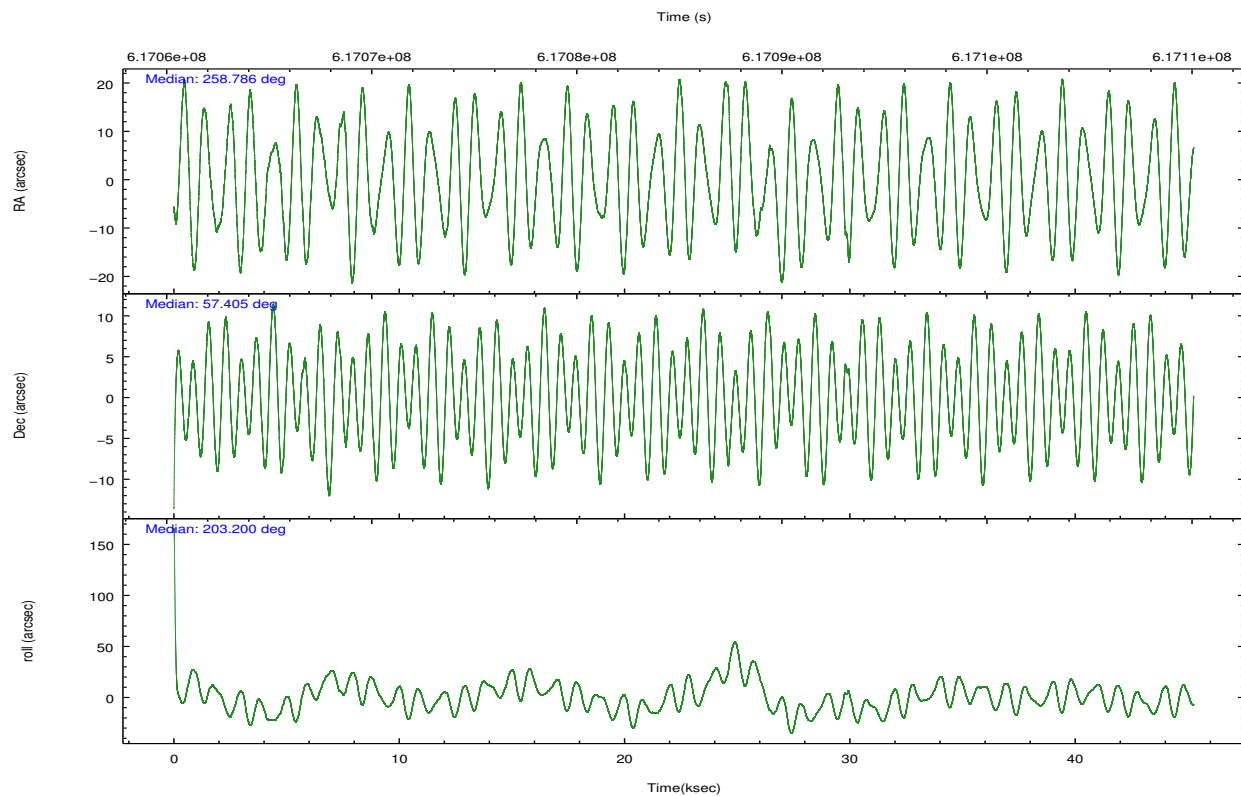
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	309900	512502	340016	465053	432265	grade 0 events	14044	18602	16143	29866	34440
rejected events	273624	265698	298438	234676	314576		4%	3%	4%	6%	7%
rejected %	88%	51%	87%	50%	72%	grade 1 events	181	1616	168	590	344
							0%	0%	0%	0%	0%
						grade 2 events	7599	77024	9245	51611	28338
							2%	15%	2%	11%	6%
						grade 3 events	3719	7593	3681	20323	11867
							1%	1%	1%	4%	2%
						grade 4 events	3668	7280	3700	19868	11233
							1%	1%	1%	4%	2%
						grade 5 events	15082	35266	15107	41938	22878
							4%	6%	4%	9%	5%
						grade 6 events	7253	136343	8812	108743	31825
							2%	26%	2%	23%	7%
						grade 7 events	258354	228778	283160	192114	291340
							83%	44%	83%	41%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	258.815925	258.7859320224188	CCD I2 on	N	N
[deg] Pointing Dec	57.426885	57.40468352580056	CCD I3 on	O1	Y
[deg] Pointing Roll	203.024145	203.2060899833131	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	617062725.184000	617061427.0141799	CCD S5 on	N	N
Observation start date	2017-07-21T22:17:36	2017-07-21T21:57:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	617107845.184000	617108063.4919	On-chip summing requested	N	N
Observation end date	2017-07-22T10:49:36	2017-07-22T10:54:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



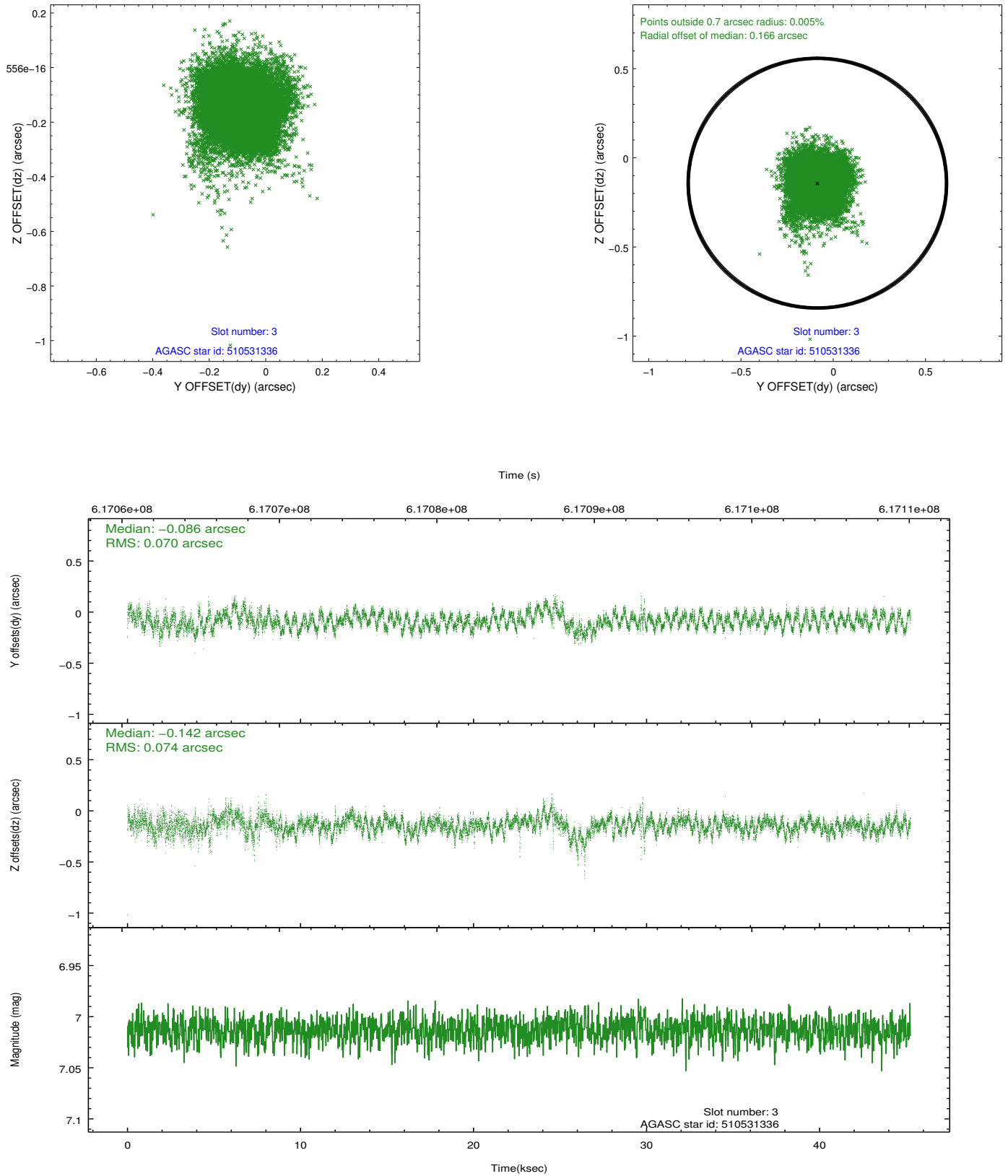


Slot Statistics

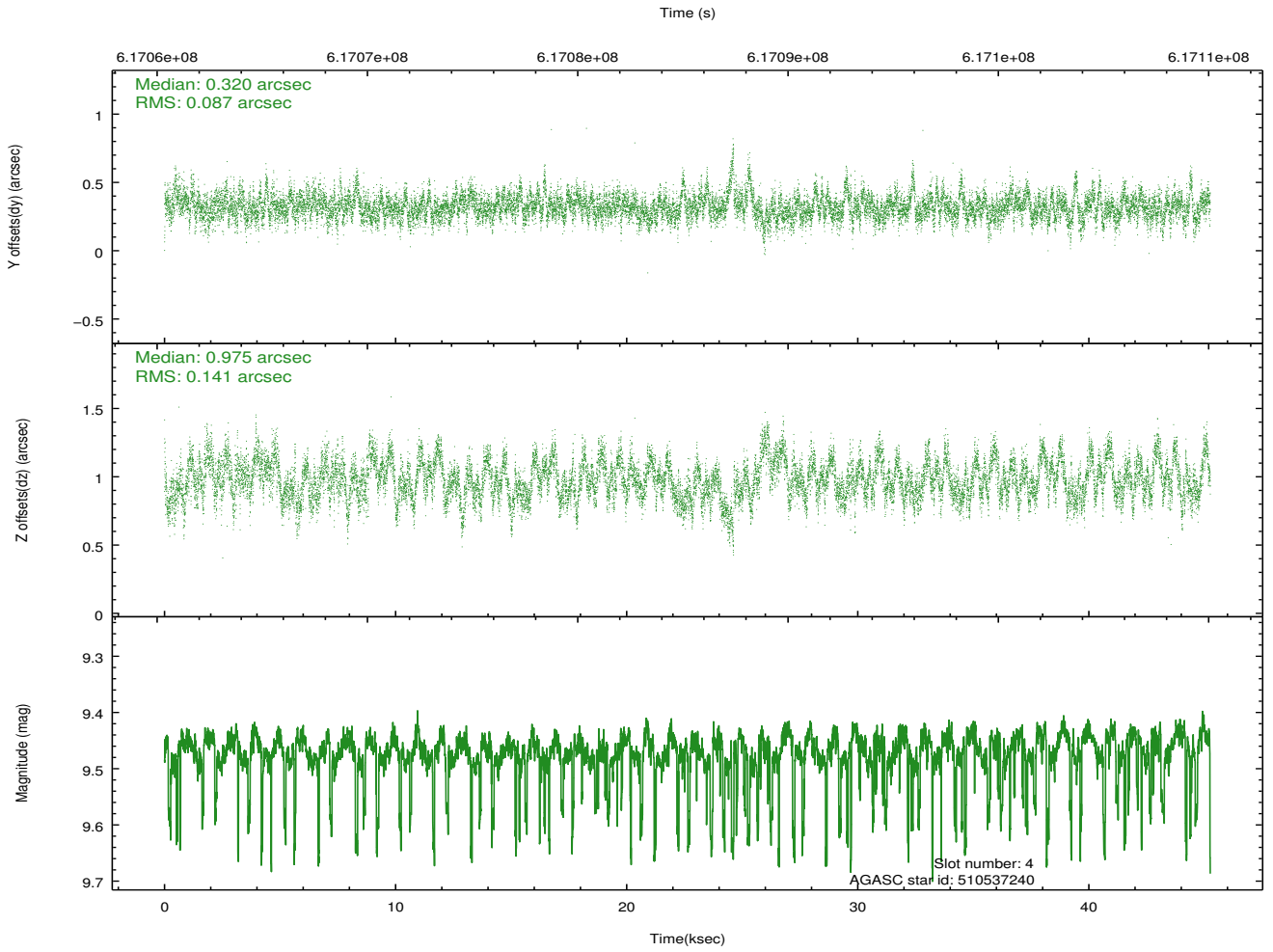
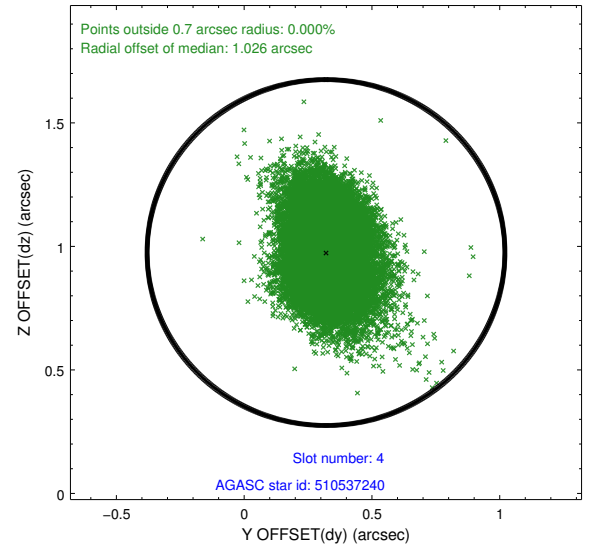
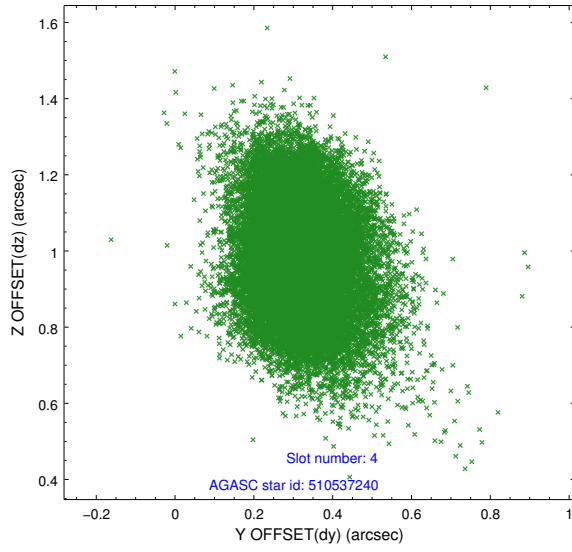
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	11039	-0.153	-0.054	0.026	0.040	0.000000	0.000000	-761.30	-1738.14
1	FID		ACIS-S-4	7.14	11039	0.346	0.088	0.025	0.056	0.000000	0.000000	2152.48	170.51
2	FID		ACIS-S-5	7.15	11037	-0.233	-0.022	0.040	0.049	0.000000	0.000000	-1814.23	164.05
3	GUIDE	used	510531336	7.01	22078	-0.086	-0.142	0.106	0.179	258.217938	57.862631	438.89	-1895.81
4	GUIDE	used	510537240	9.47	22055	0.320	0.975	0.173	0.288	259.436318	57.923115	-1791.61	-1183.99
5	GUIDE	used	510537304	7.30	22074	0.142	0.001	0.127	0.231	257.977845	57.967610	708.37	-2427.12
6	GUIDE	used	510536032	9.24	21990	-0.230	-0.062	0.133	0.227	258.787877	57.540840	-110.37	-398.42
7	GUIDE	used	510537952	9.38	22036	-0.151	-0.770	0.177	0.305	259.803735	57.190117	-1445.42	1524.85

2.4 Star Slots

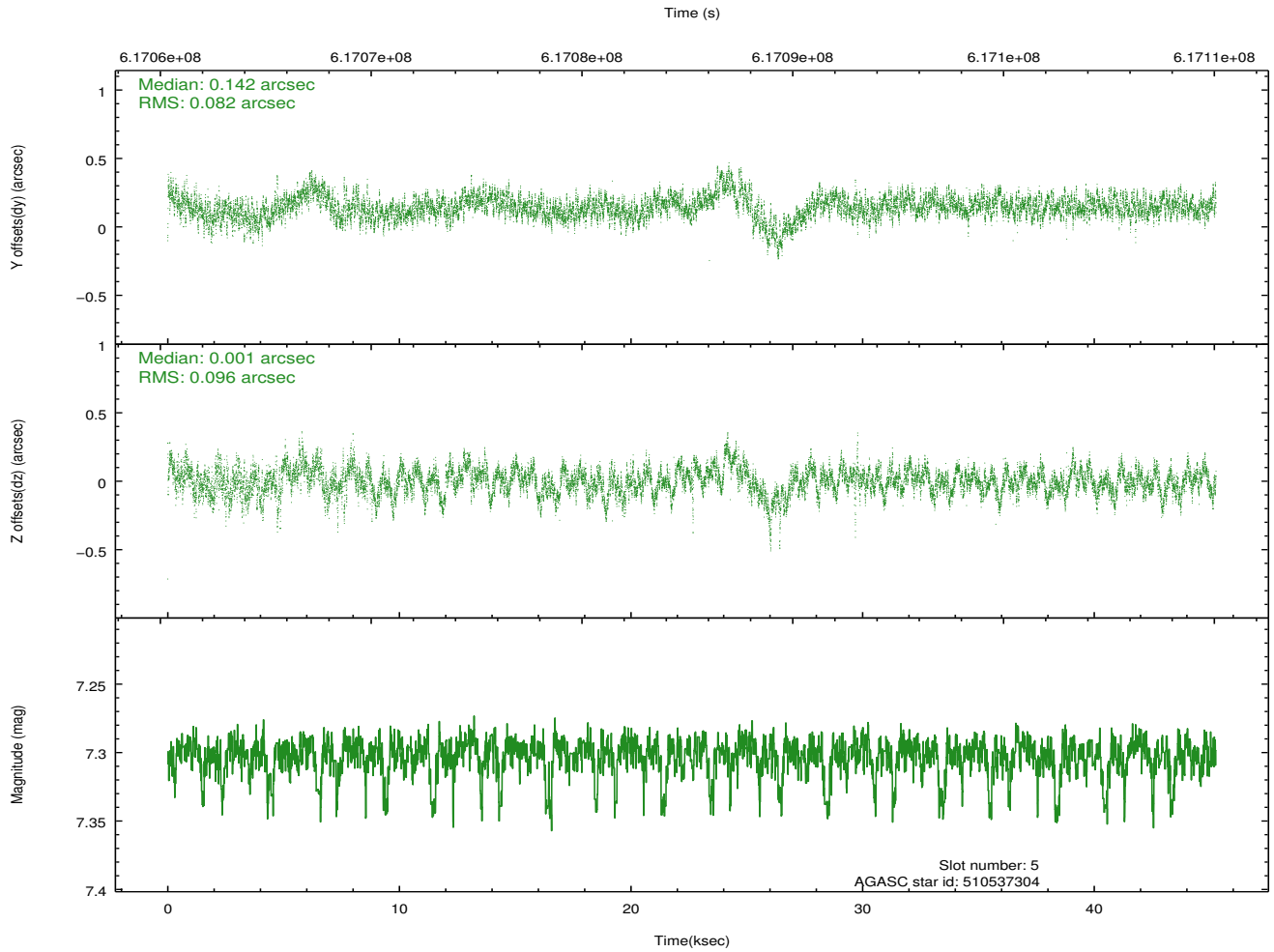
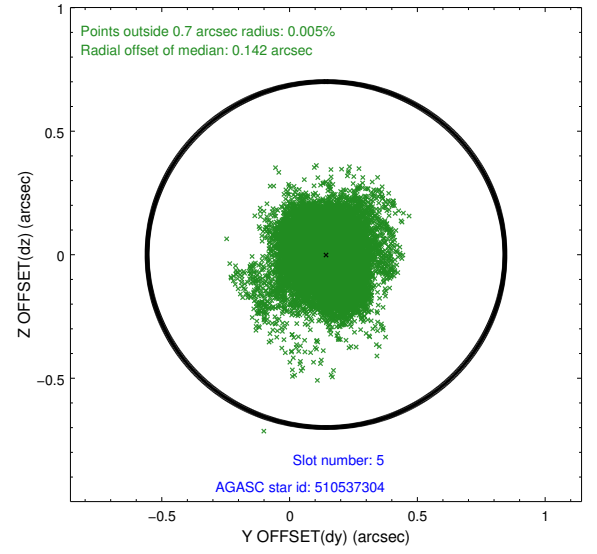
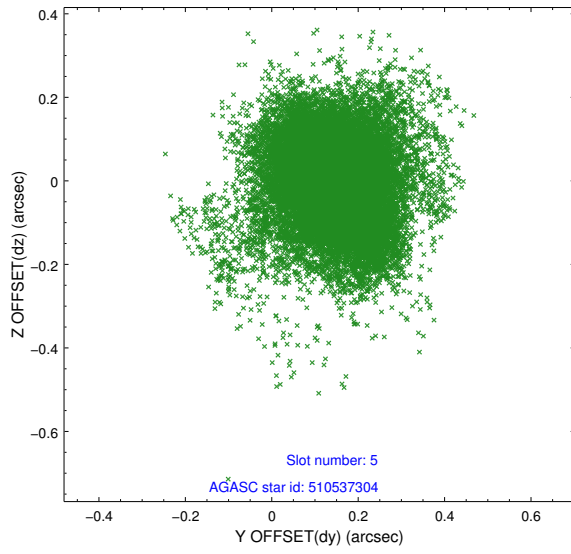
2.4.1 Slot 3



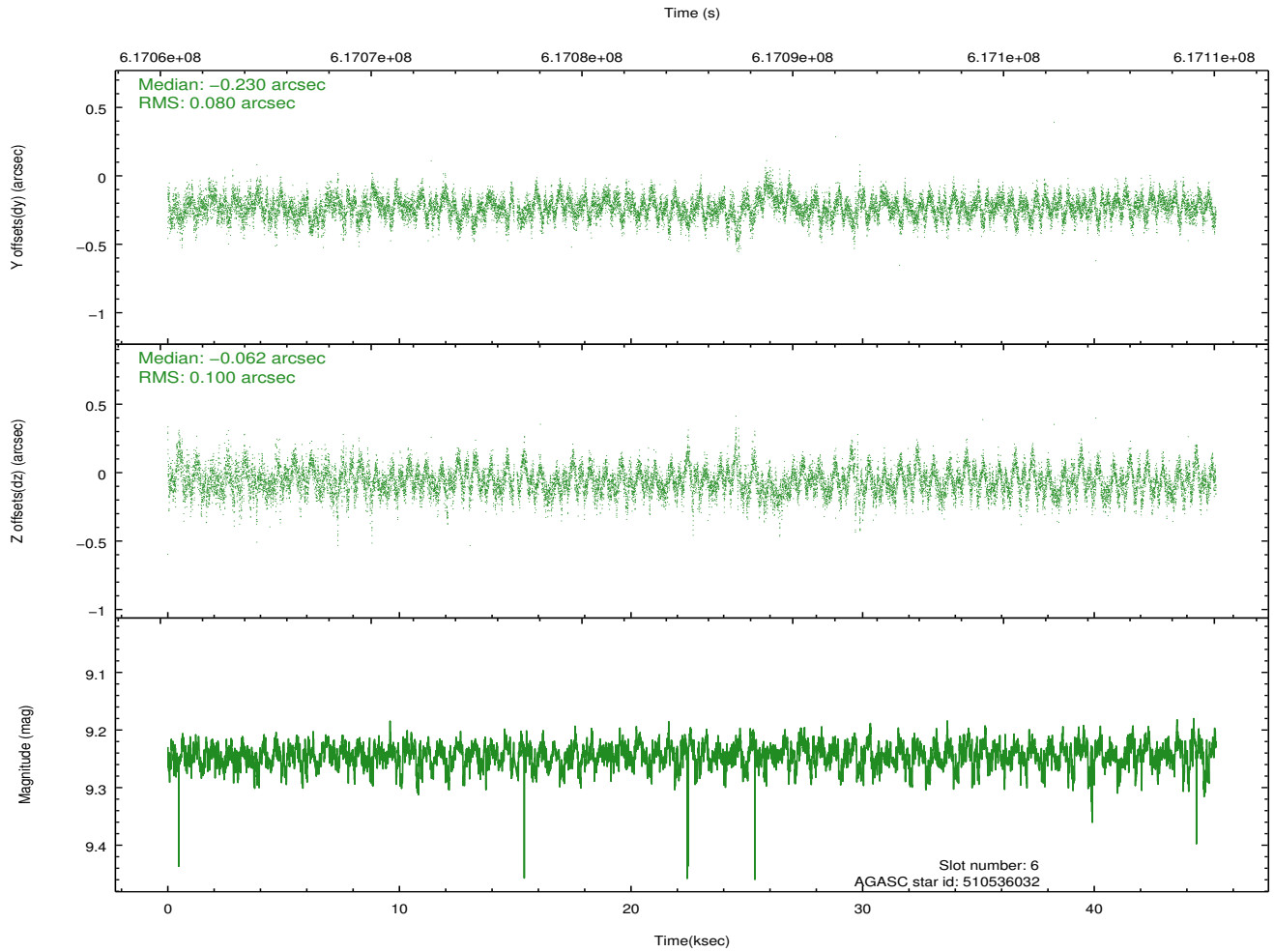
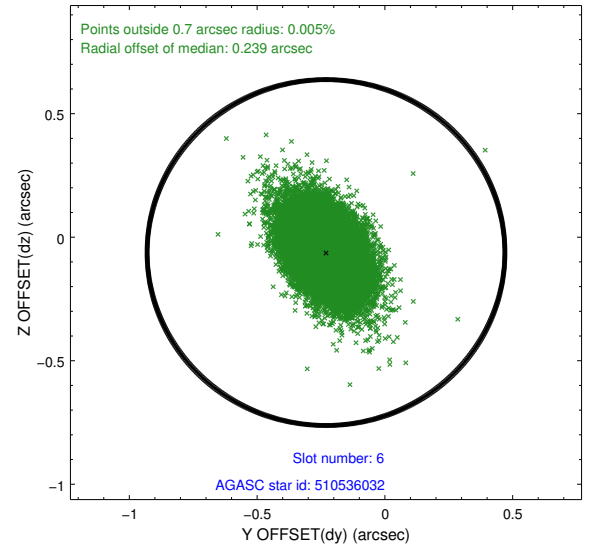
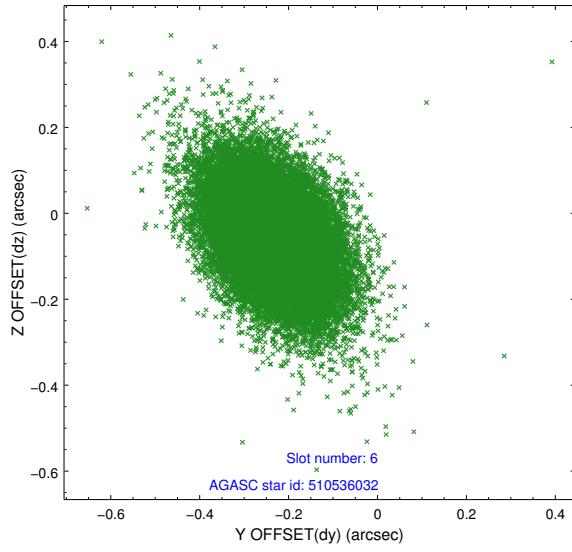
2.4.2 Slot 4



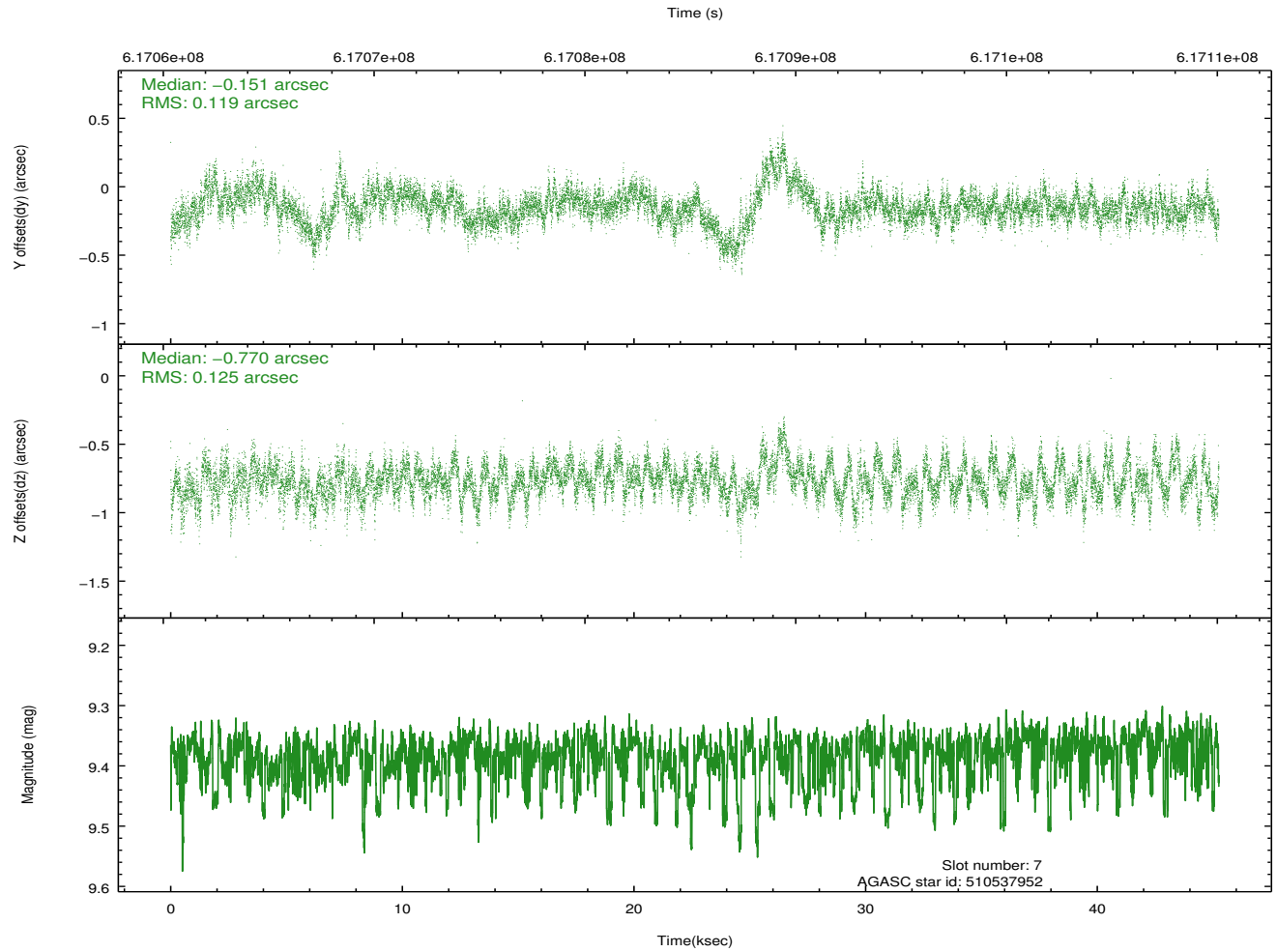
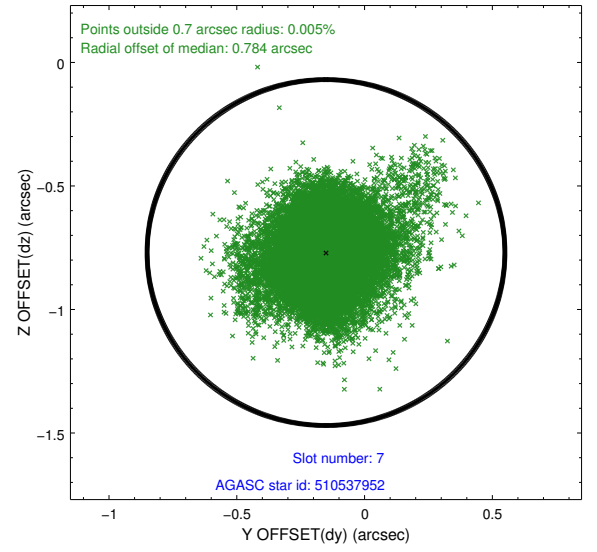
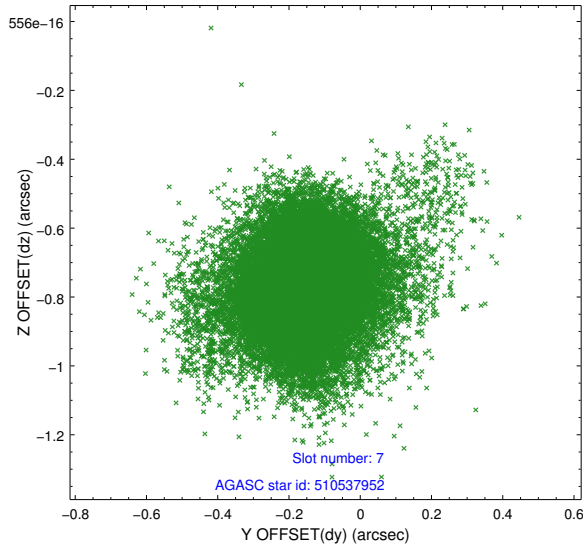
2.4.3 Slot 5



2.4.4 Slot 6

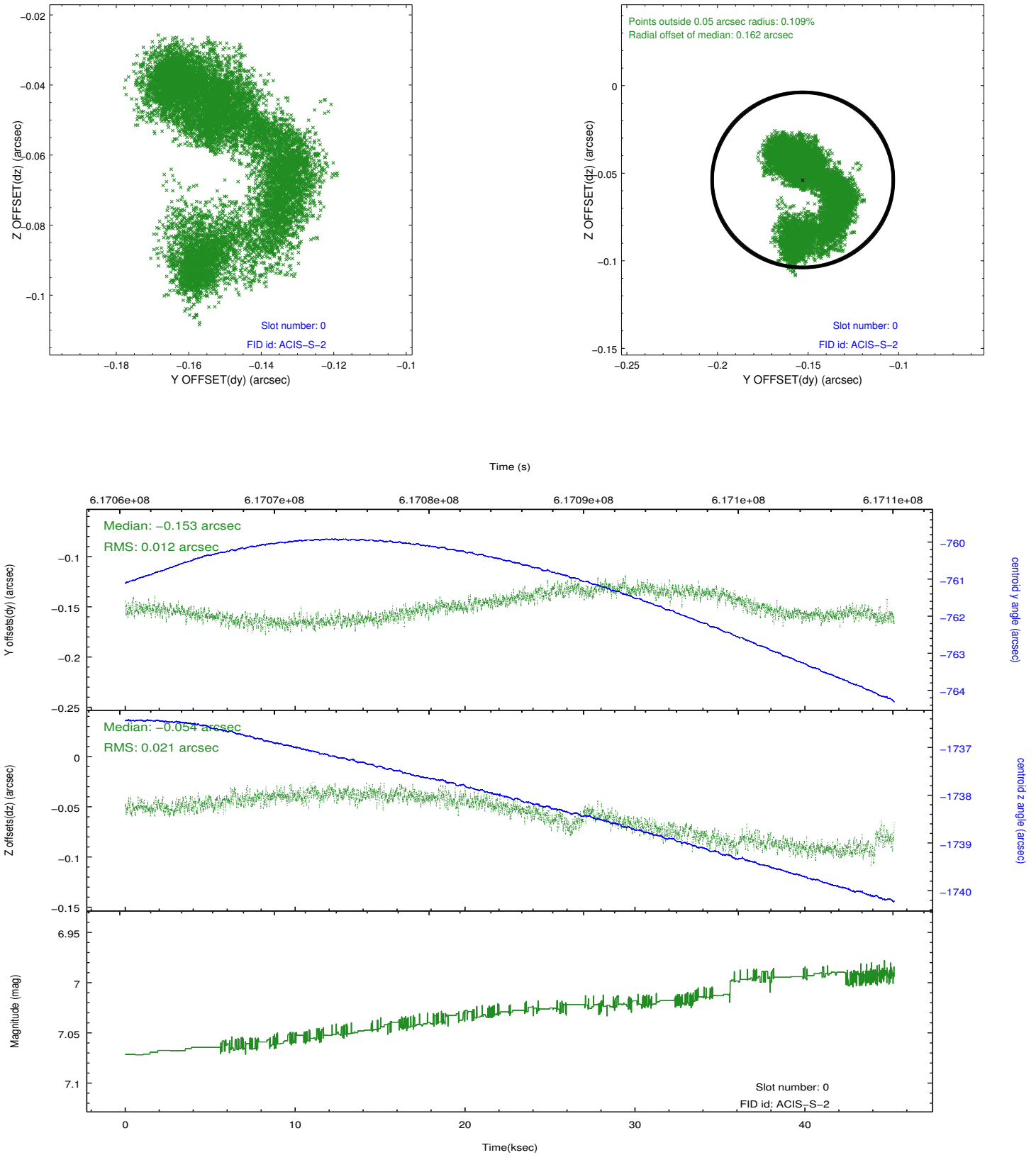


2.4.5 Slot 7

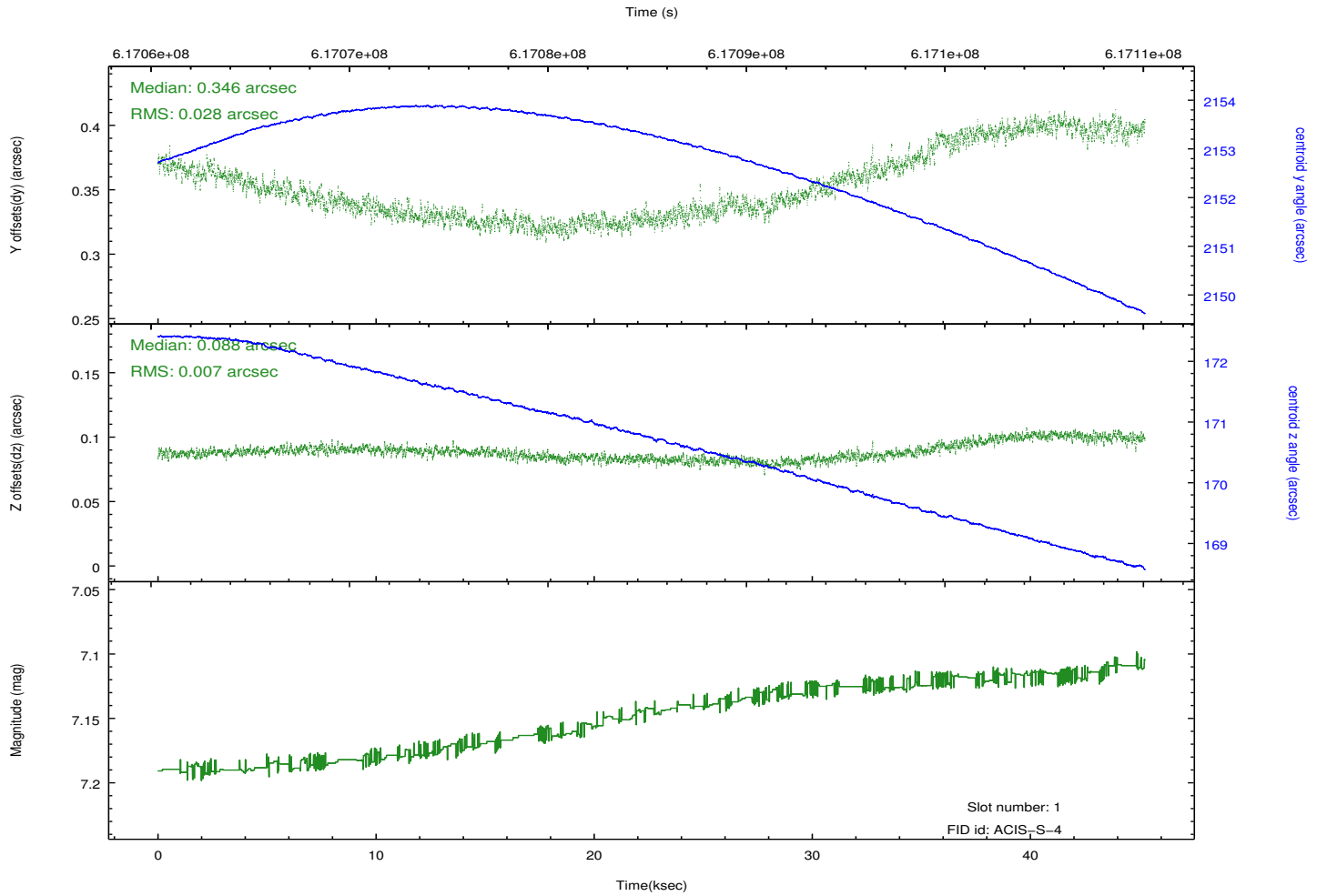
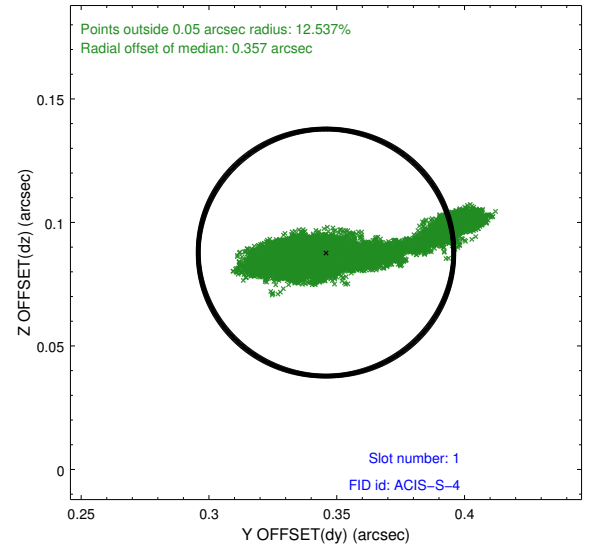
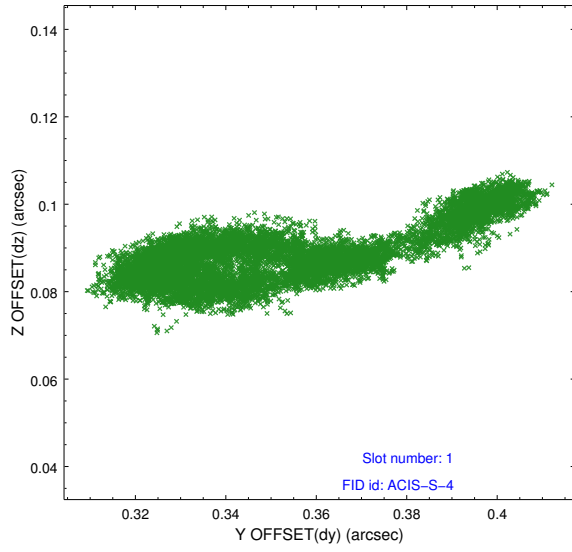


2.5 FID Slots

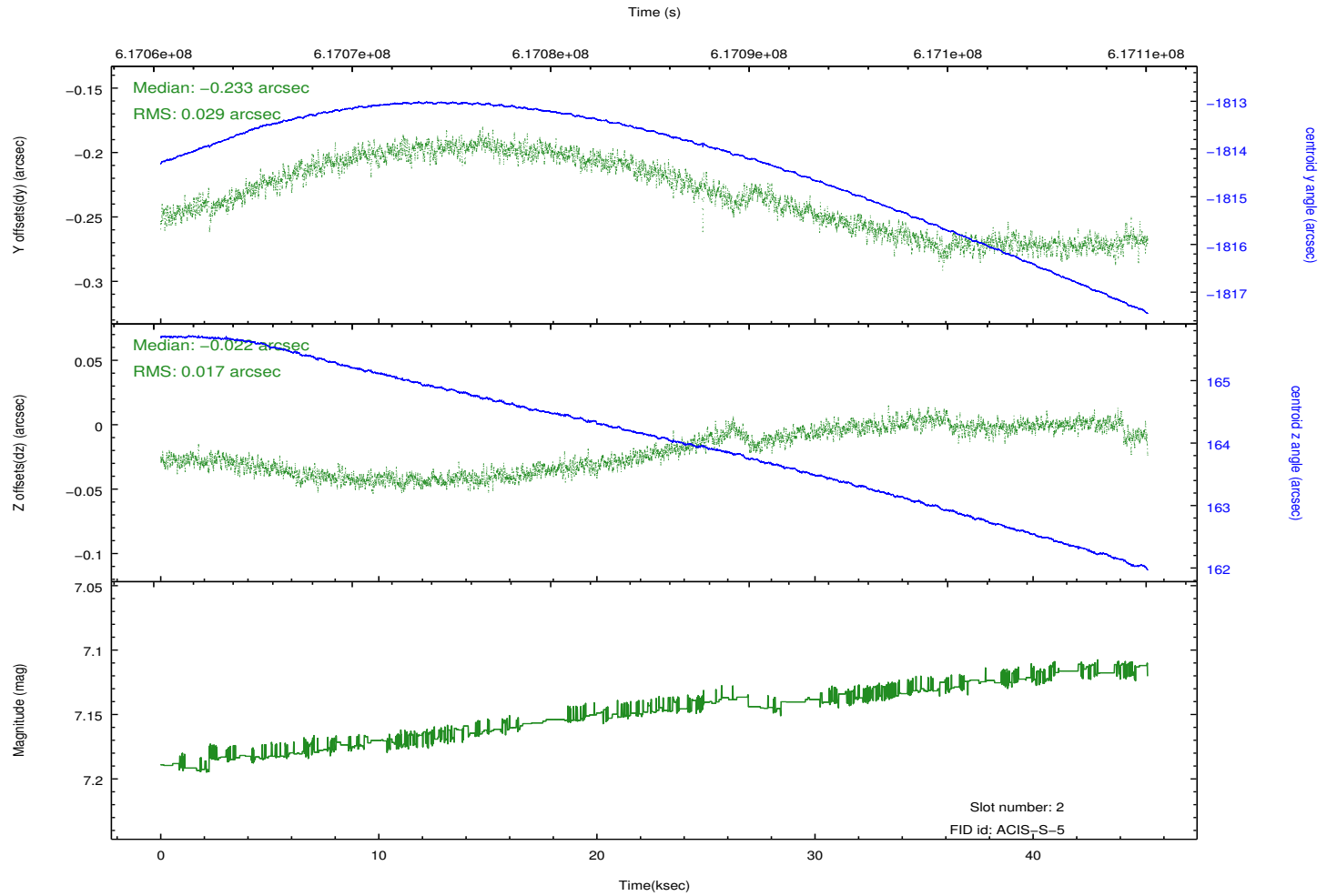
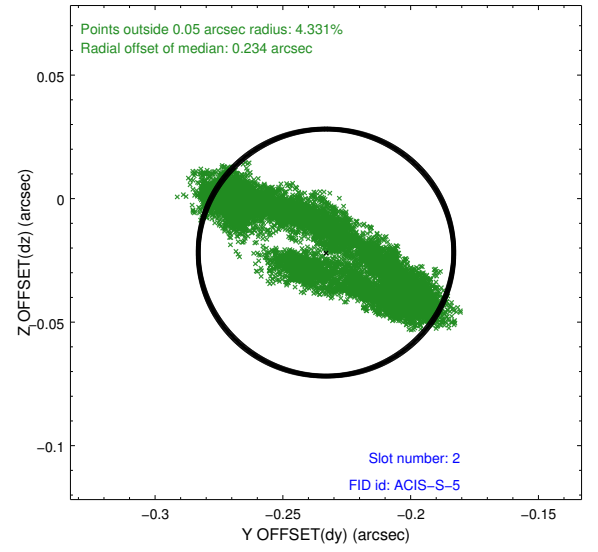
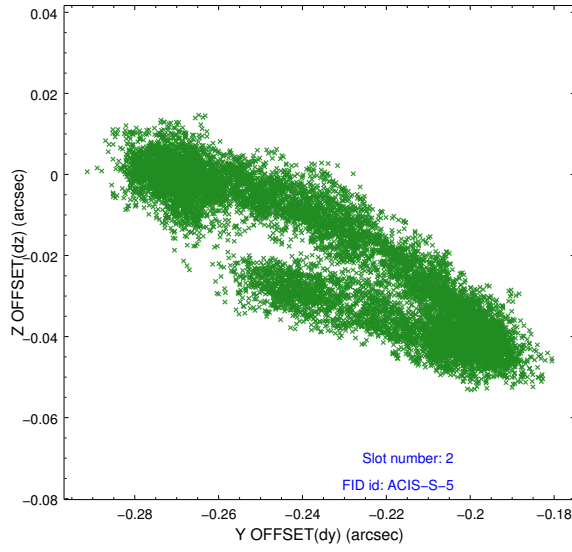
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.07.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.171836795688

A.2 Comments

Joint proposal with XMM.