

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18713 - L2 Version 1
Chandra X-Ray Center

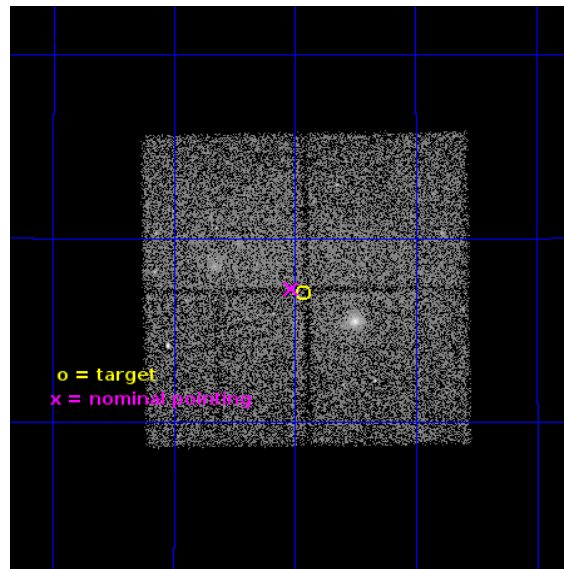
L2 Processing Date : Dec 13 2015

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1 Front

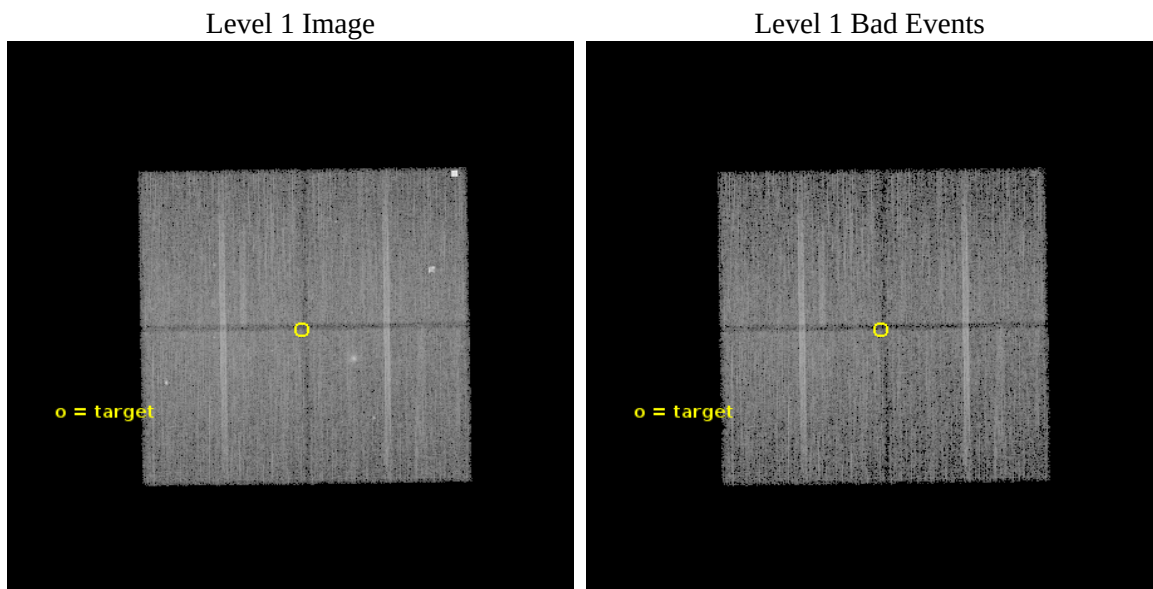
seq_num	801593	Sequence number
obs_id	18713	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.878549099004	Nominal RA [deg]
dec_nom	32.454493085045	Nominal Dec [deg]
roll_nom	269.2023186656	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29574.000227571	Sum of GTIs [s]
livetime	29187.594142535	Livetime [s]
ontime0	29574.000227571	Sum of GTIs [s]
ontime1	29574.000227571	Sum of GTIs [s]
ontime2	29574.000227571	Sum of GTIs [s]
ontime3	29570.859147429	Sum of GTIs [s]
l2events	66379	Number of level 2 events



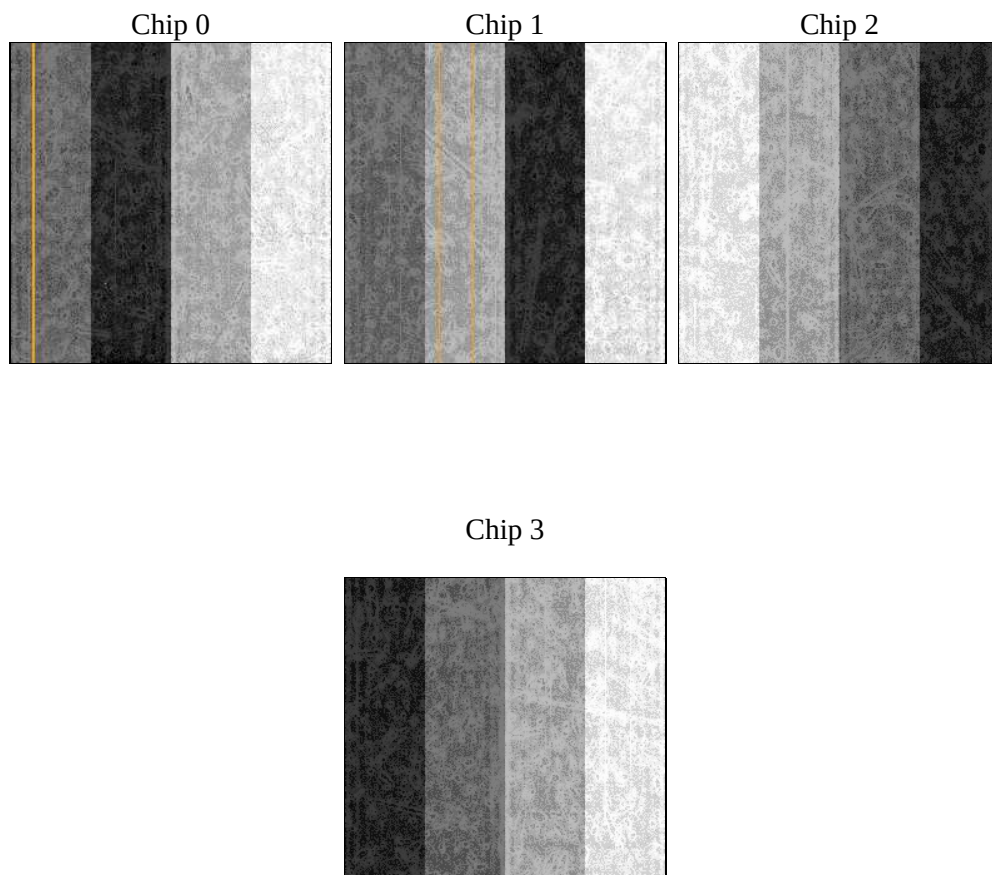
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29489.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	29574.000227571	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	29574.000227571	Sum of GTIs [s]
date	2015-12-13T16:03:59	Date and time of file creation	ontime1	29574.000227571	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29574.000227571	Sum of GTIs [s]
			ontime3	29570.859147429	Sum of GTIs [s]
			l1events	632944	Number of level 1 events

2.1.4 Events

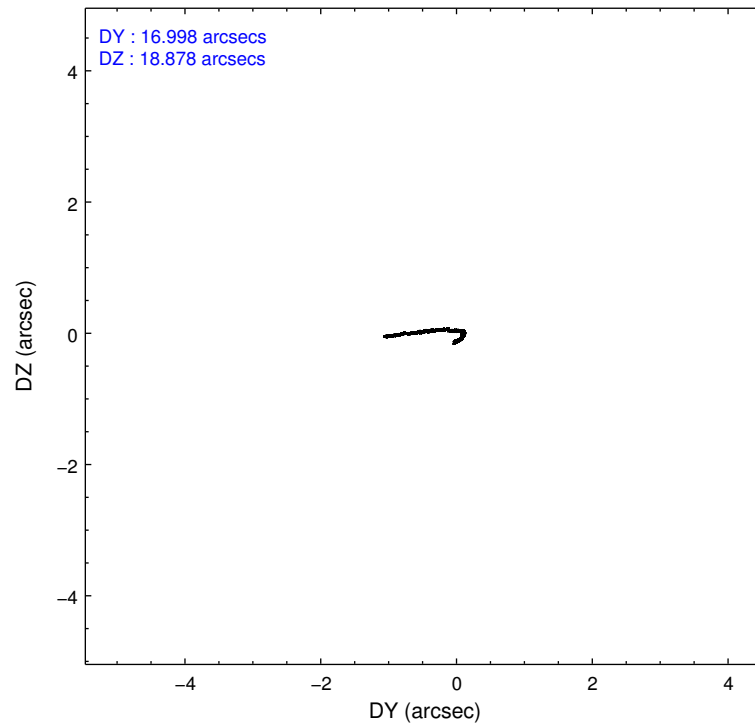
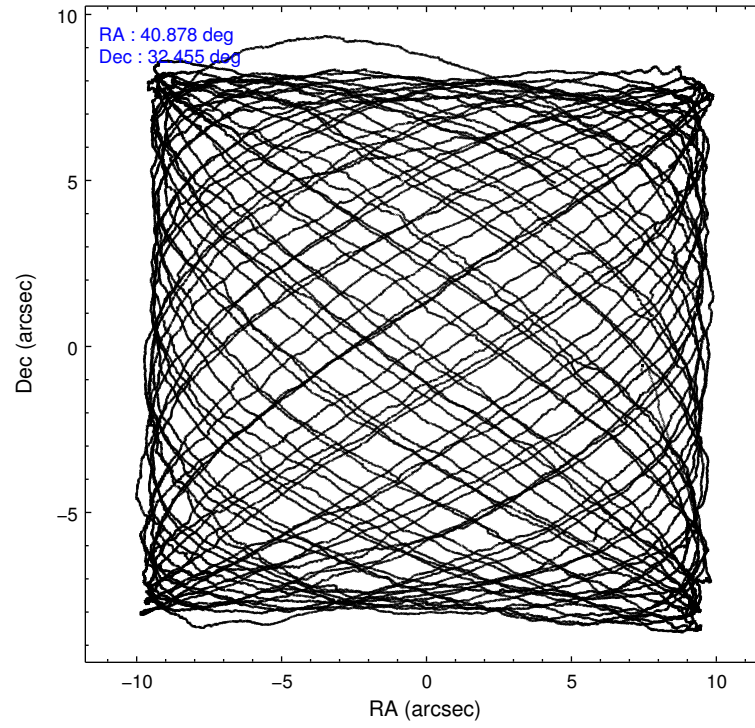
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	145198	163209	161846	162691
rejected events	124707	132382	143506	143490
rejected %	85%	81%	88%	88%

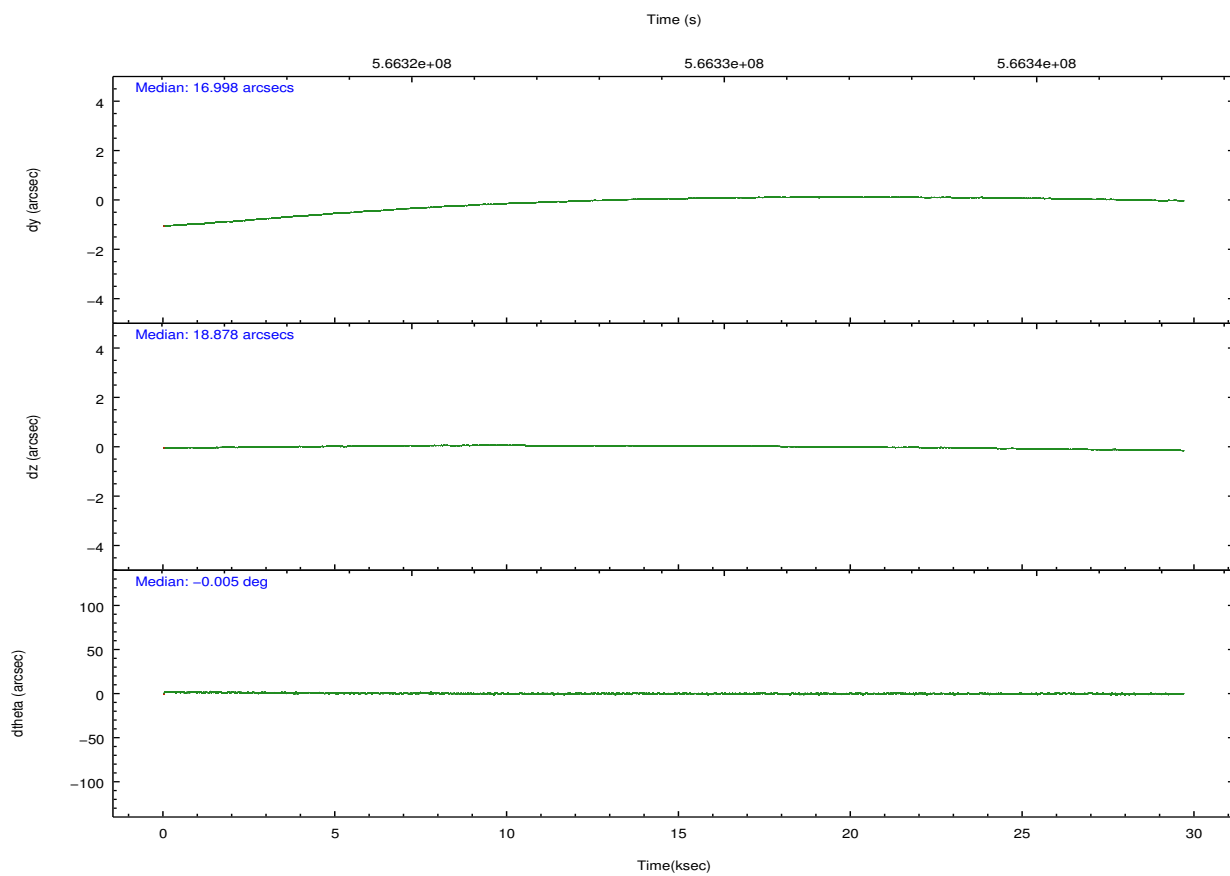
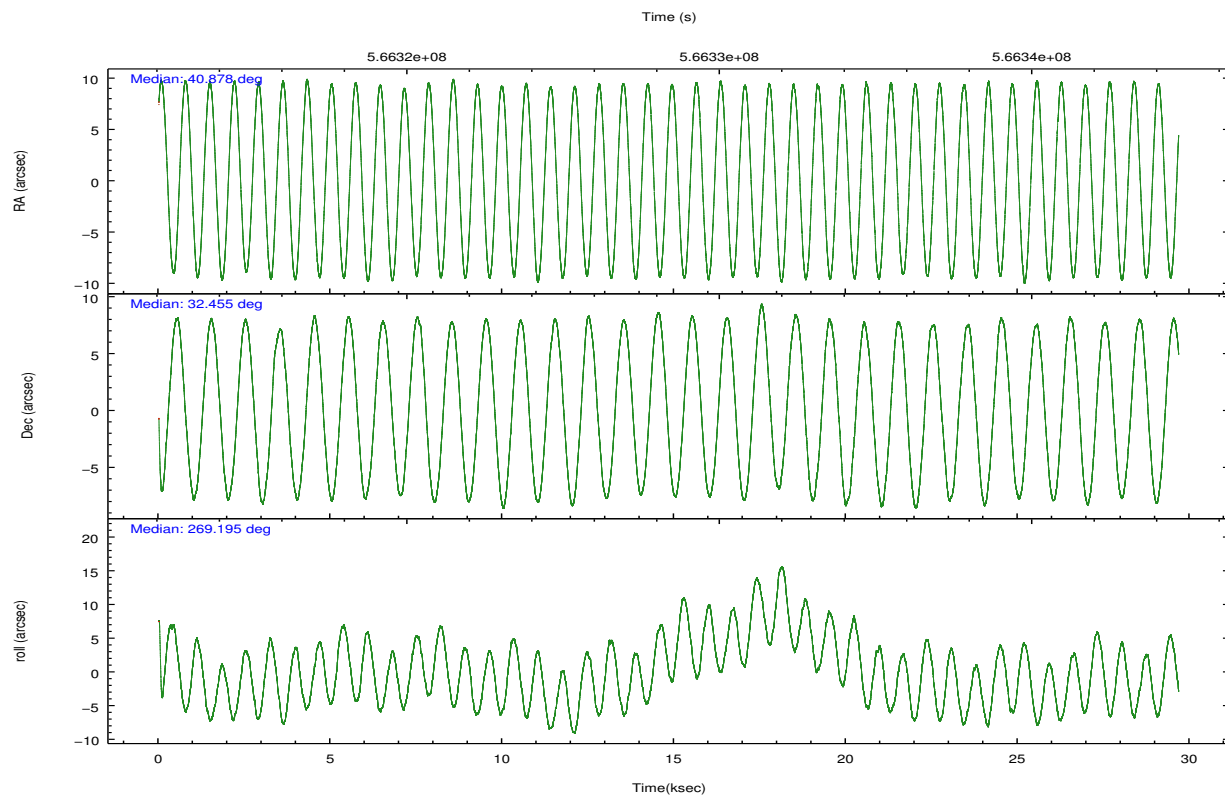
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8451	8817	7361	7761
	5%	5%	4%	4%
grade 1 events	83	84	101	85
	0%	0%	0%	0%
grade 2 events	4609	13809	4018	3872
	3%	8%	2%	2%
grade 3 events	1929	1869	1788	1859
	1%	1%	1%	1%
grade 4 events	1727	1814	1747	1844
	1%	1%	1%	1%
grade 5 events	6682	7073	6333	7936
	4%	4%	3%	4%
grade 6 events	3778	4522	3427	3868
	2%	2%	2%	2%
grade 7 events	117939	125221	137071	135466
	81%	76%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	40.862480	40.87854909900357	CCD I2 on	Y	Y
[deg] Pointing Dec	32.478525	32.45449308504519	CCD I3 on	Y	Y
[deg] Pointing Roll	269.002257	269.2023186655973	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	566313749.184000	566312203.79447	CCD S5 on	N	N
Observation start date	2015-12-12T13:21:21	2015-12-12T12:56:43	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	566343238.184000	566344150.99628	On-chip summing requested	N	N
Observation end date	2015-12-12T21:32:50	2015-12-12T21:49:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



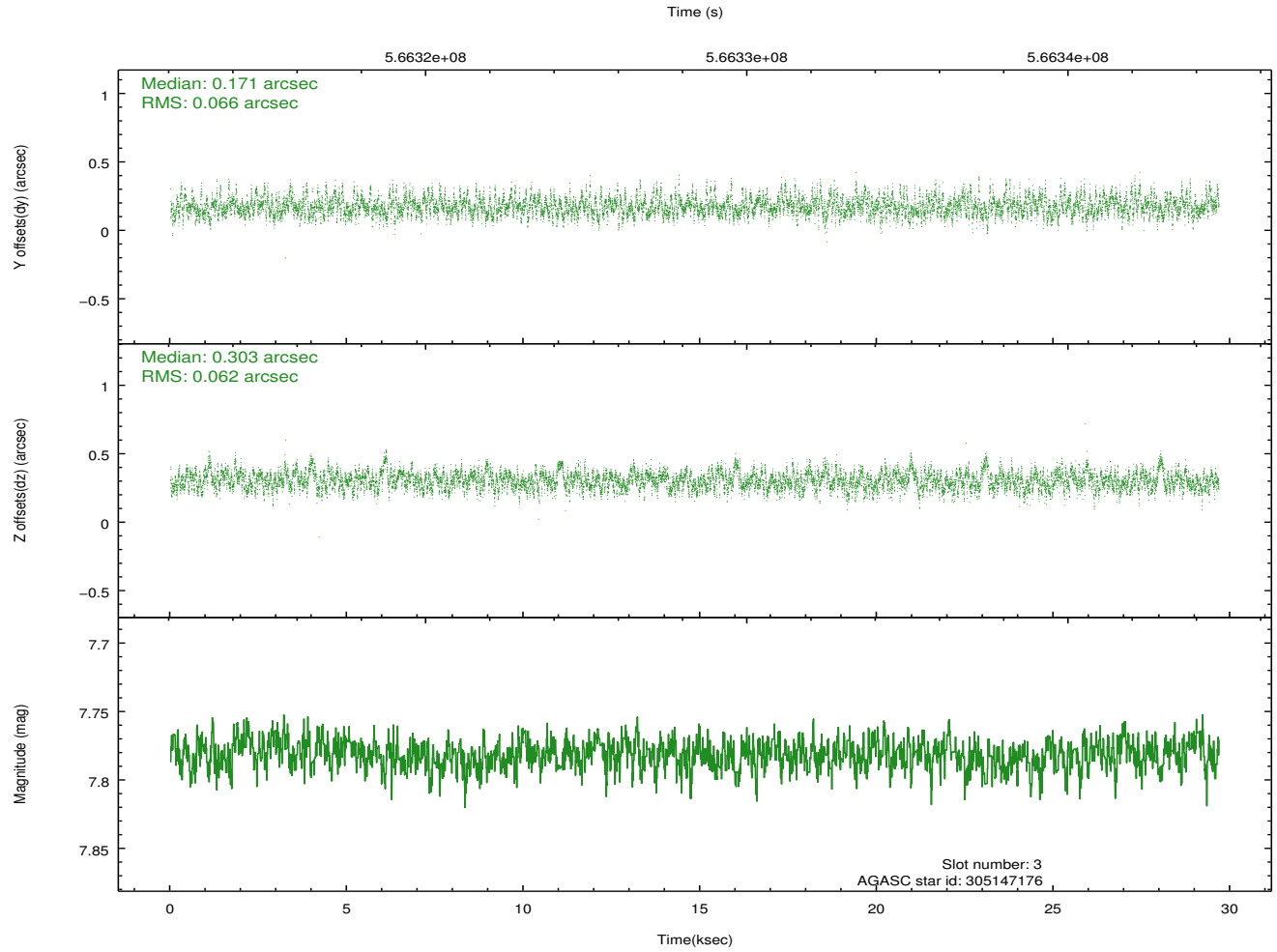
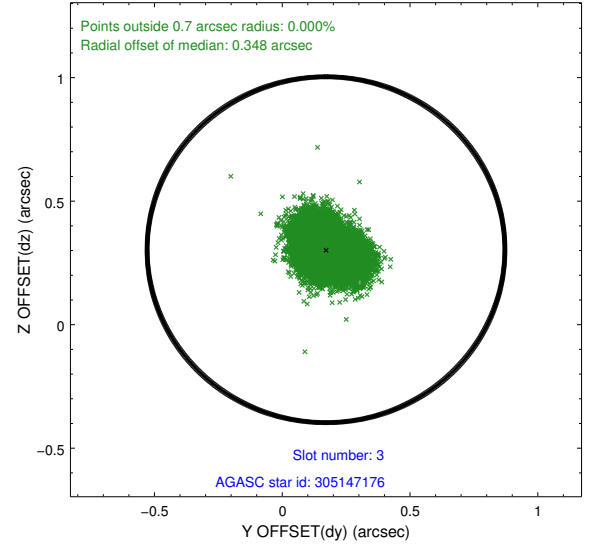
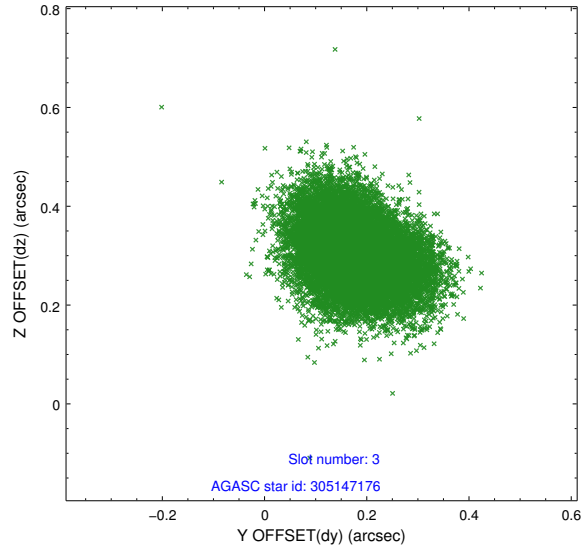


Slot Statistics

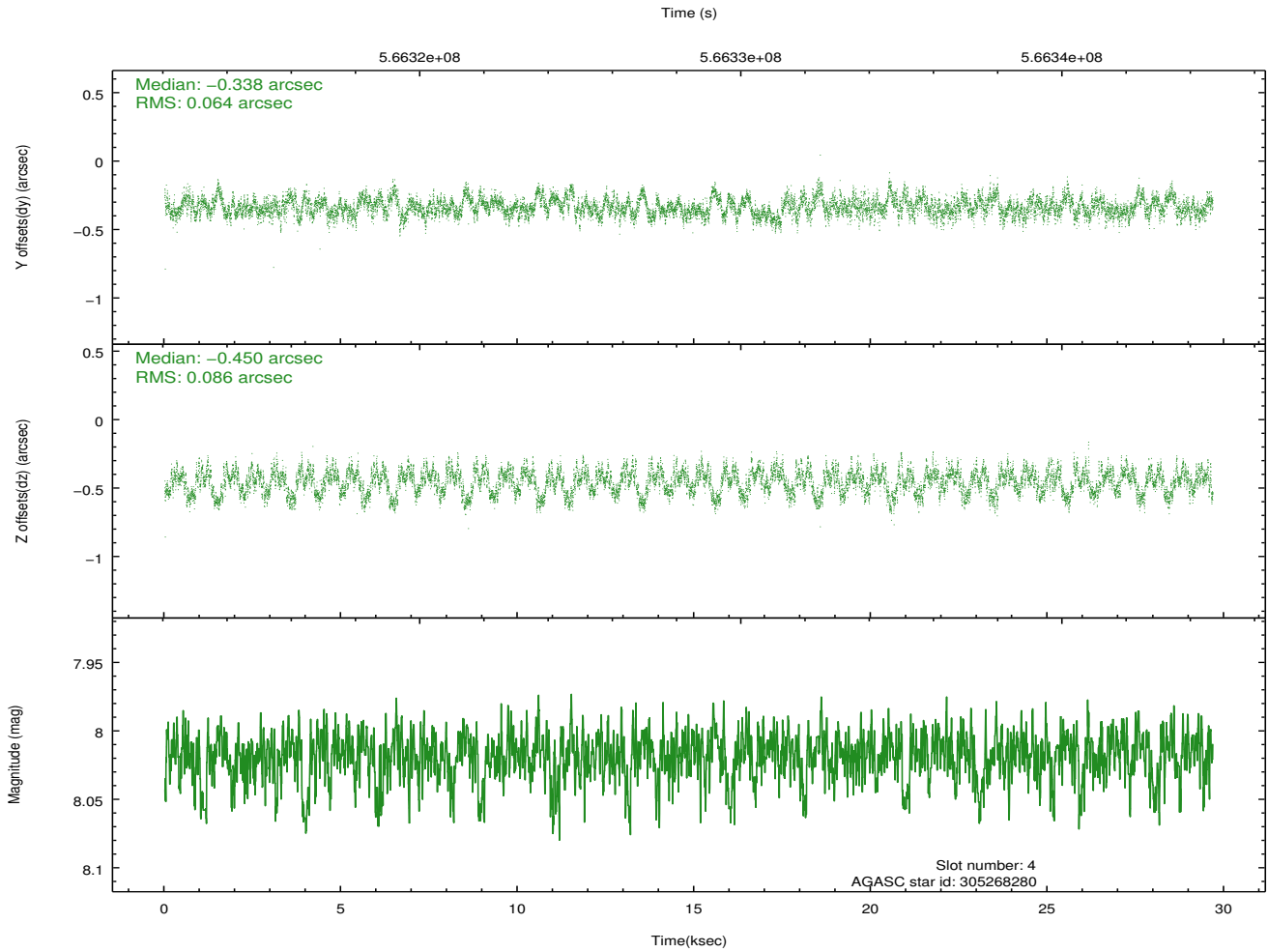
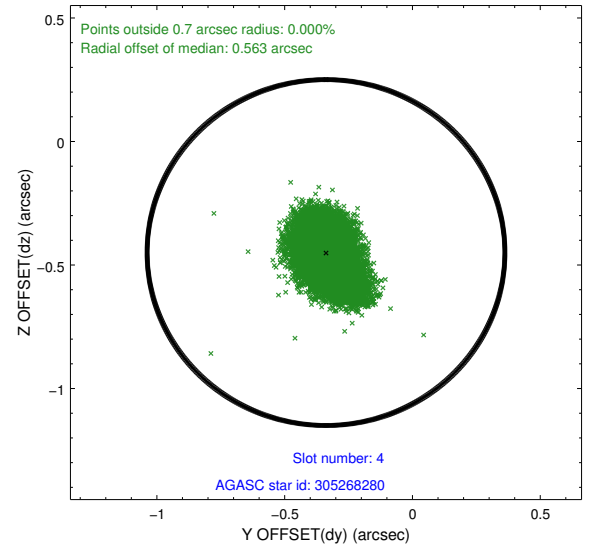
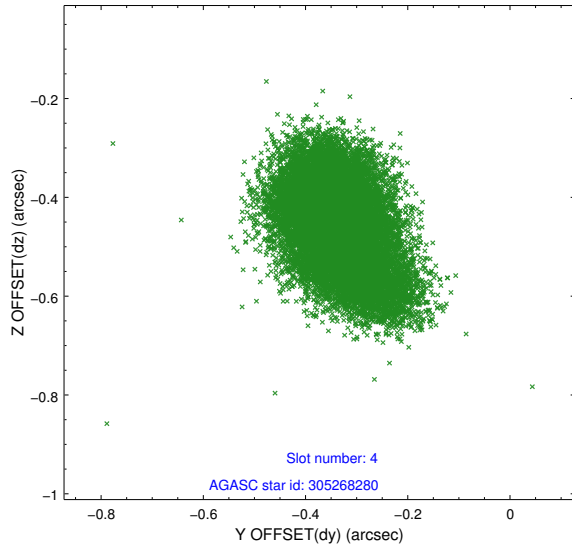
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.28	7238	0.069	-0.014	0.008	0.016	0.000000	0.000000	922.68	-842.54
1	FID		ACIS-I-5	7.27	7237	-0.369	0.031	0.008	0.018	0.000000	0.000000	-1825.91	1054.83
2	FID		ACIS-I-6	7.29	7238	0.208	0.054	0.008	0.015	0.000000	0.000000	388.16	1699.54
3	GUIDE	used	305147176	7.78	14474	0.171	0.303	0.096	0.156	40.109077	32.320442	601.80	-2281.31
4	GUIDE	used	305268280	8.02	14473	-0.338	-0.450	0.114	0.185	41.584929	31.994907	1695.21	2235.26
5	GUIDE	used	304612712	8.84	14462	0.223	-0.201	0.128	0.231	40.204549	31.855512	2272.73	-1971.90
6	GUIDE	used	305271112	7.73	14467	0.016	0.118	0.101	0.161	40.672539	32.901478	-1511.51	-599.39
7	GUIDE	used	305275512	7.72	14471	-0.082	0.233	0.094	0.157	40.696155	32.869449	-1398.12	-526.96

2.4 Star Slots

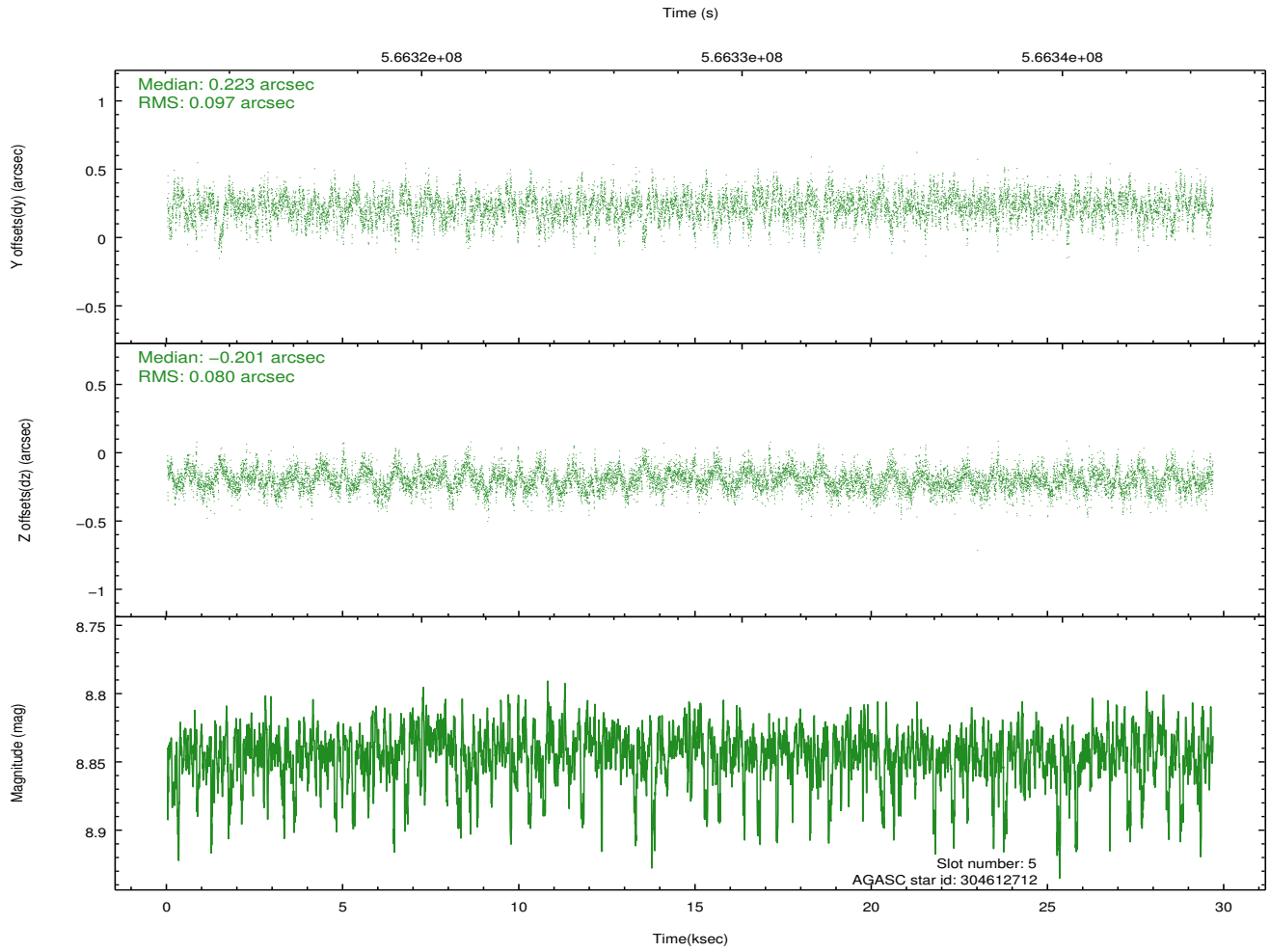
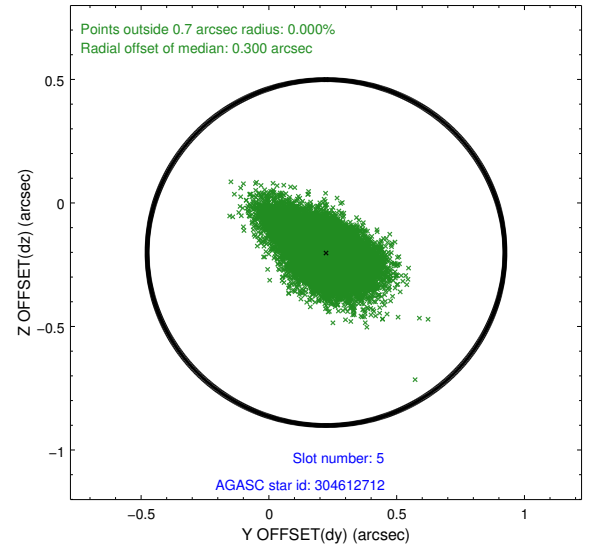
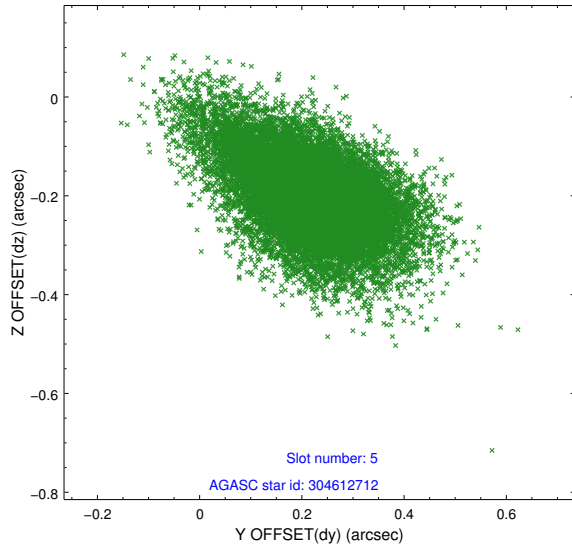
2.4.1 Slot 3



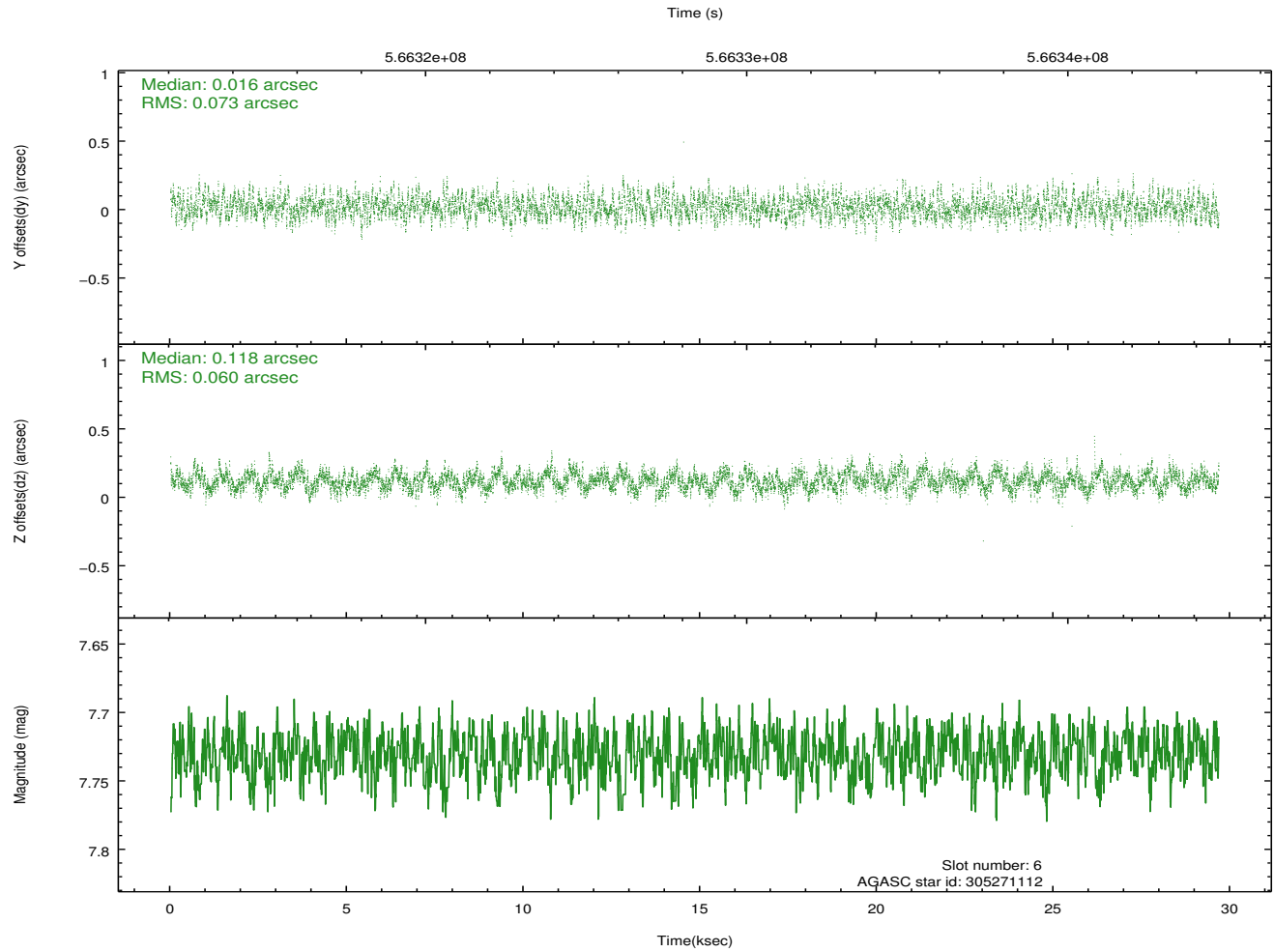
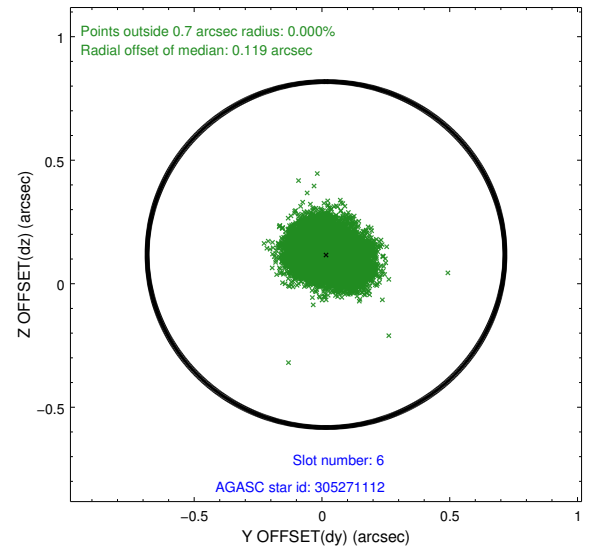
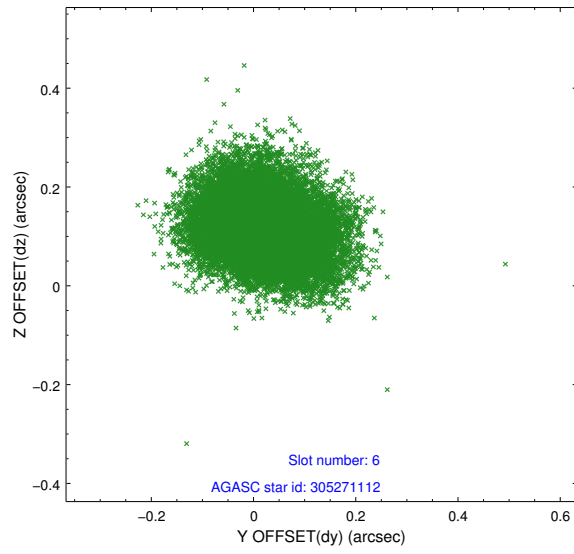
2.4.2 Slot 4



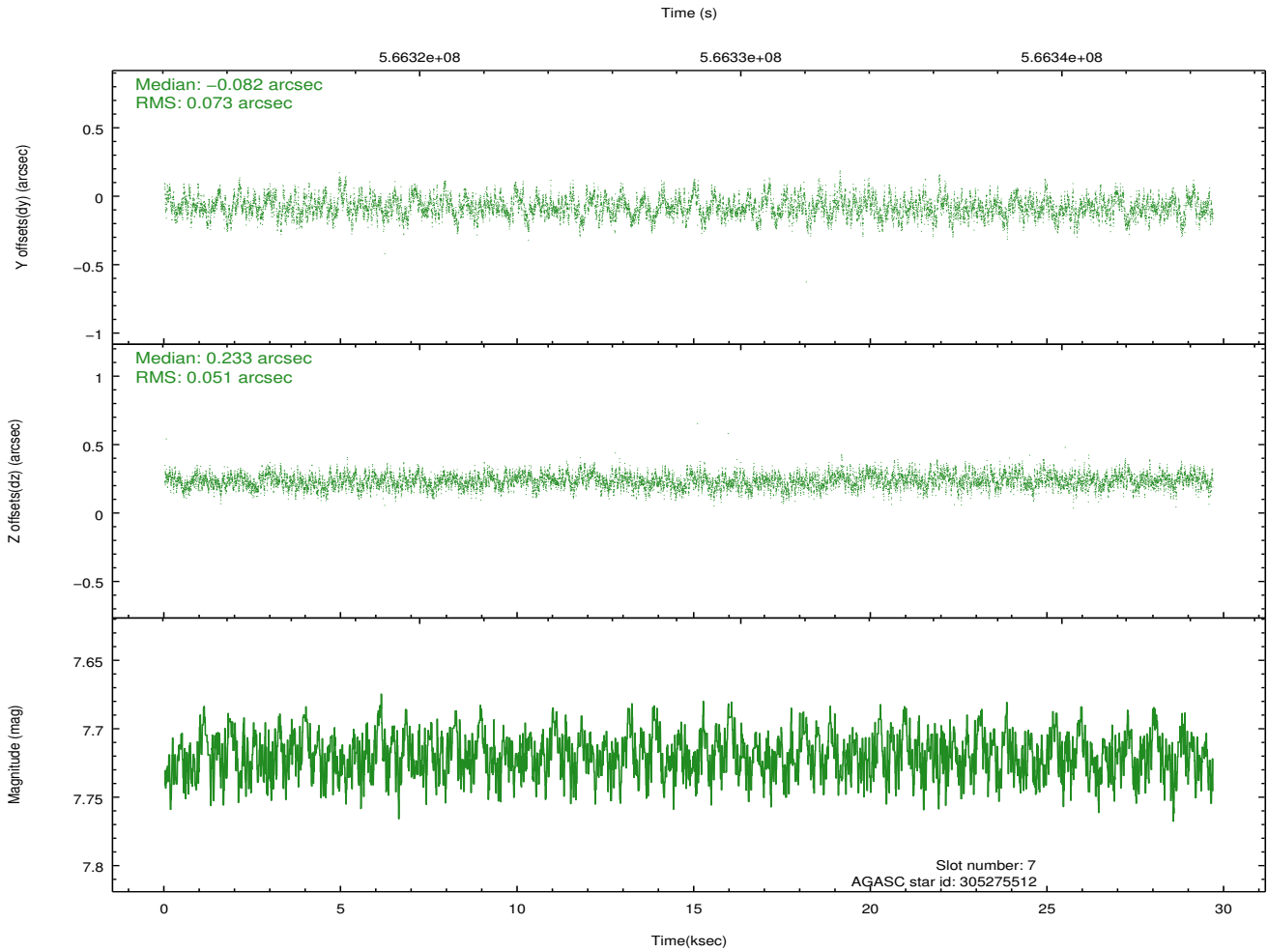
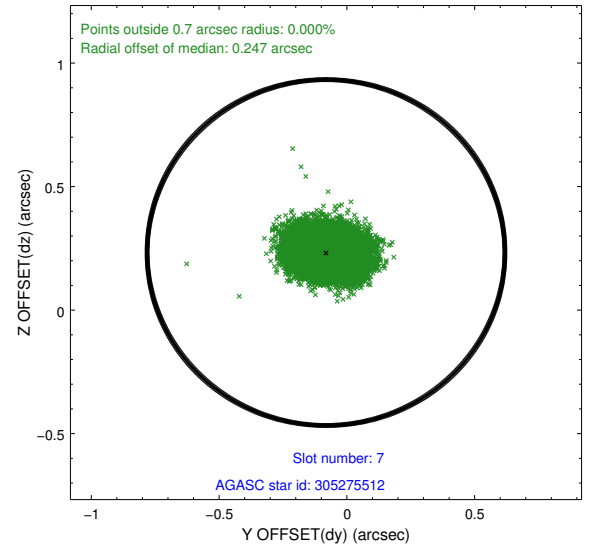
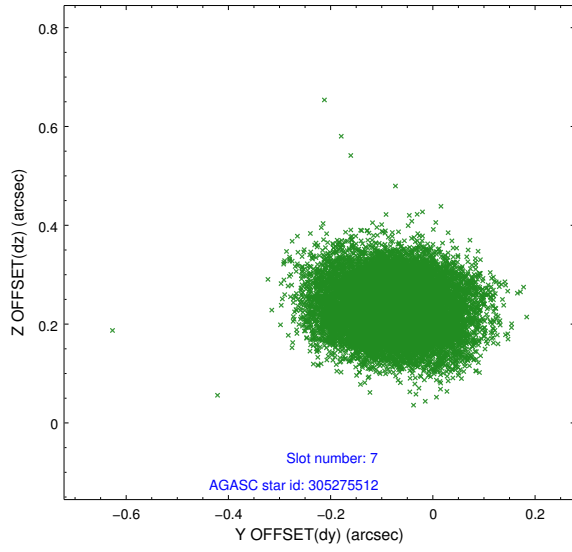
2.4.3 Slot 5



2.4.4 Slot 6

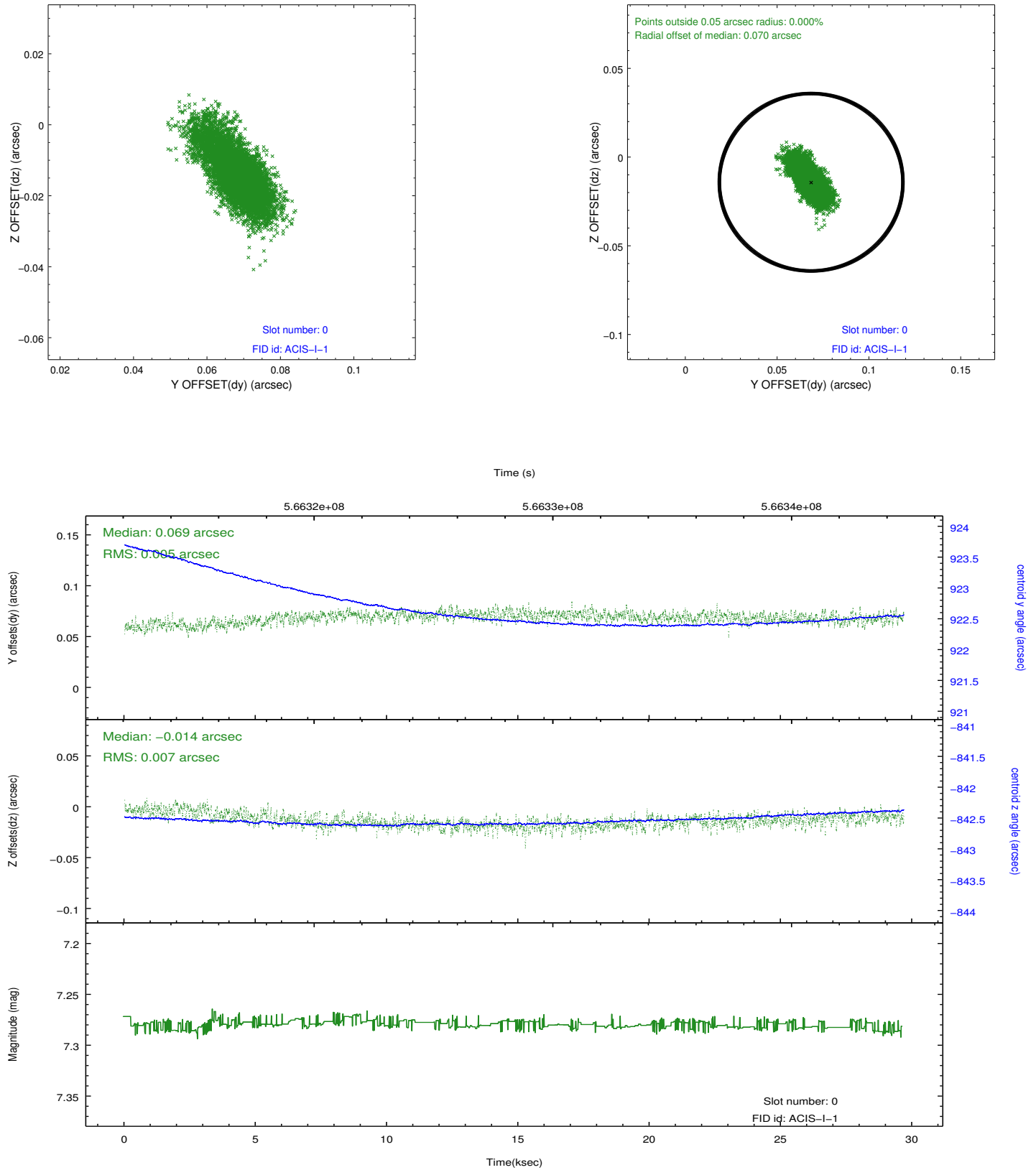


2.4.5 Slot 7

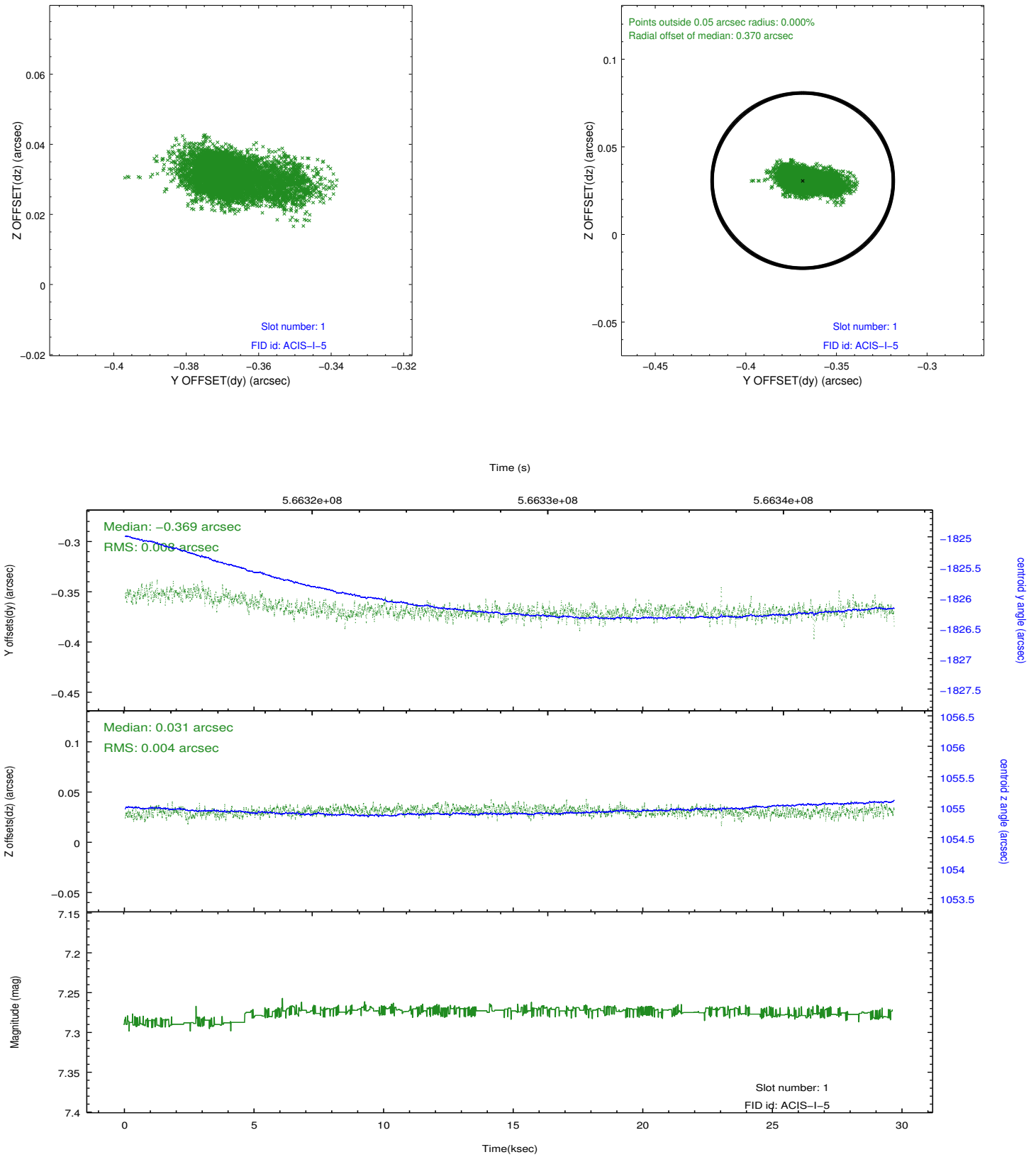


2.5 FID Slots

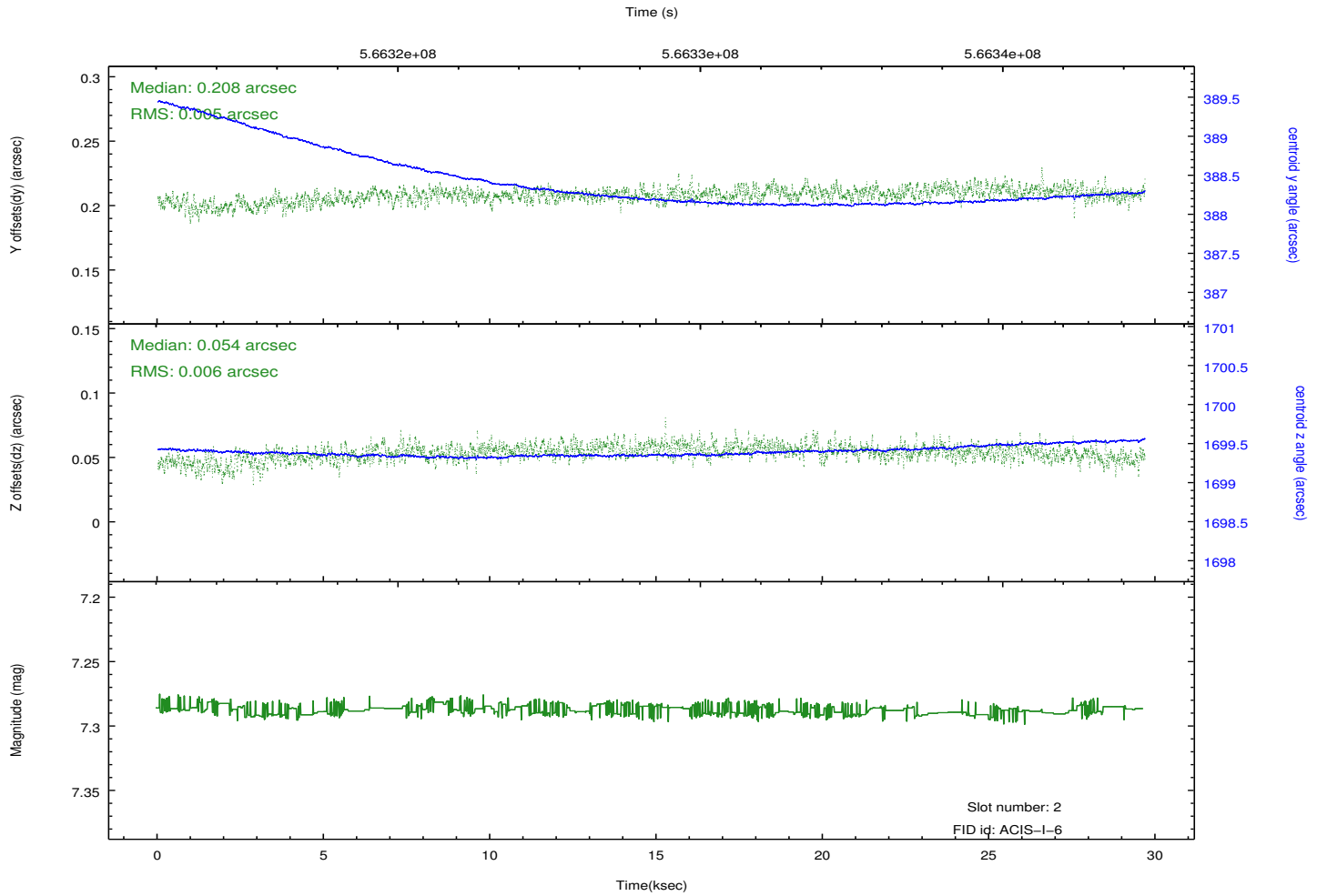
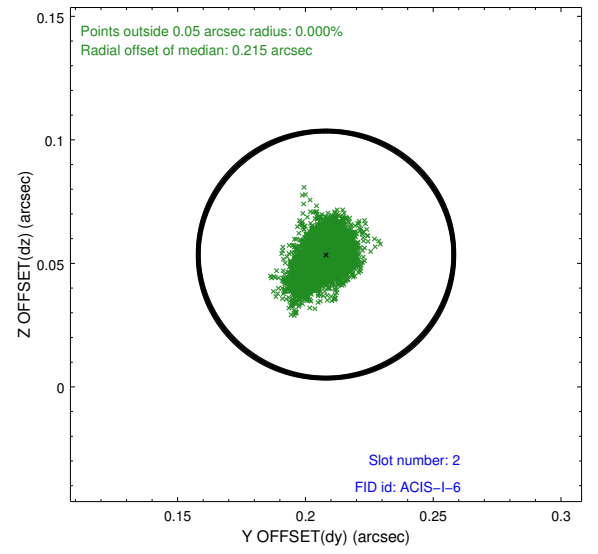
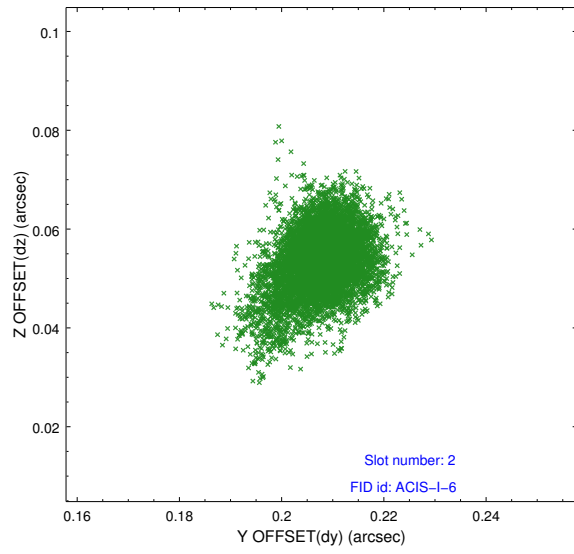
2.5.1 Slot 0



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)	2015.12.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.574000227571

A.2 Comments

Optional chip S2 was dropped.