

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18714 - L2 Version 1
Chandra X-Ray Center

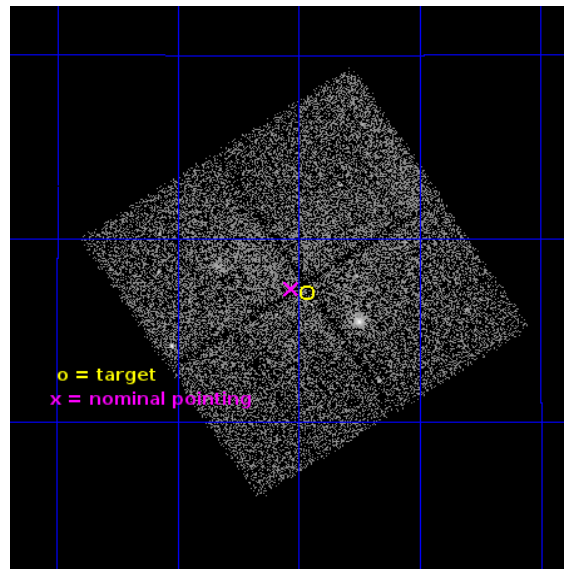
L2 Processing Date : Nov 26 2015

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1 Front

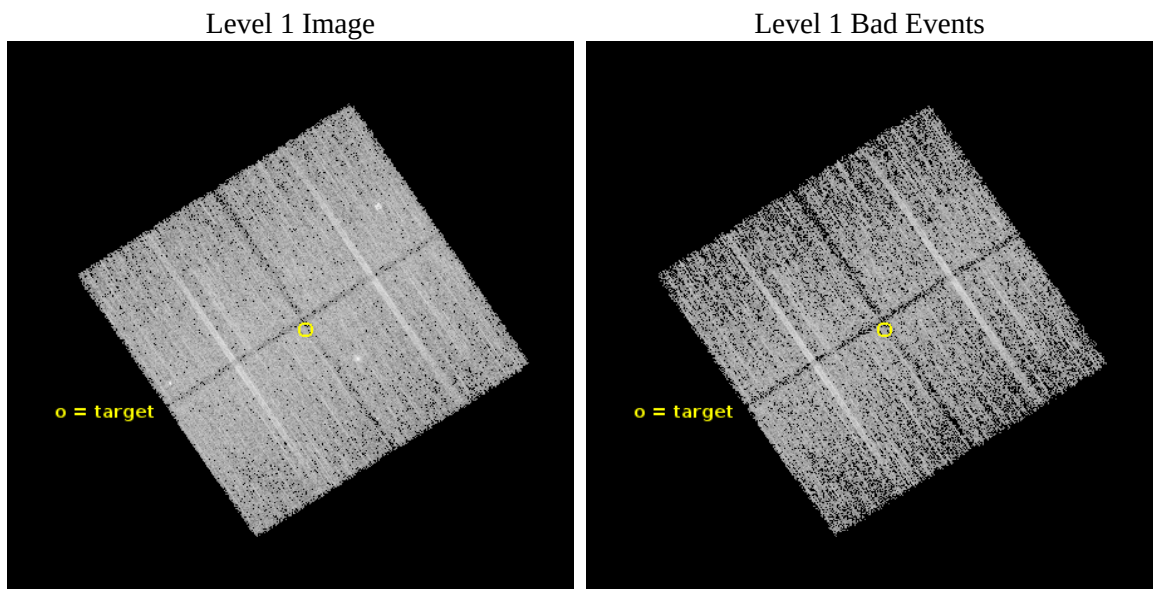
seq_num	801593	Sequence number
obs_id	18714	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.882526134371	Nominal RA [deg]
dec_nom	32.454647368513	Nominal Dec [deg]
roll_nom	236.7001780571	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15080.131259799	Sum of GTIs [s]
livetime	14883.098243059	Livetime [s]
ontime0	15080.131259799	Sum of GTIs [s]
ontime1	15077.031299472	Sum of GTIs [s]
ontime2	15080.213339806	Sum of GTIs [s]
ontime3	15080.254379749	Sum of GTIs [s]
l2events	36898	Number of level 2 events



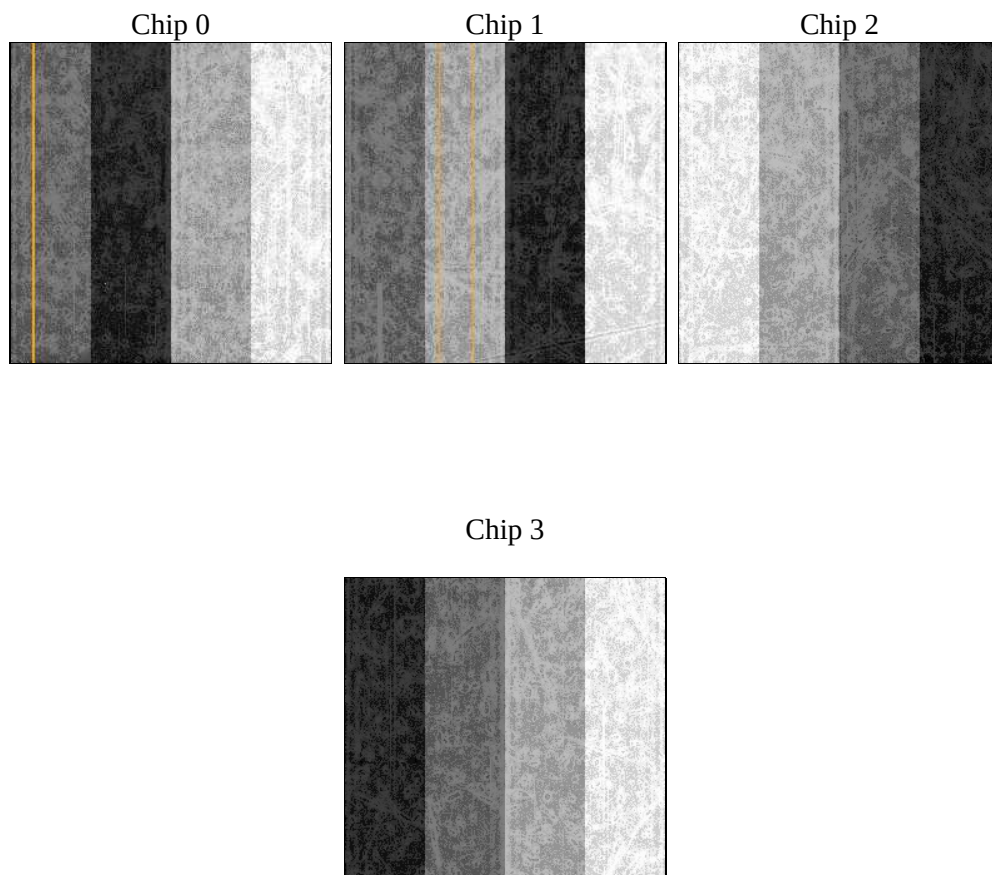
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	15080.131259799	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	15080.131259799	Sum of GTIs [s]
date	2015-11-27T04:00:12	Date and time of file creation	ontime1	15077.031299472	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15080.213339806	Sum of GTIs [s]
			ontime3	15080.254379749	Sum of GTIs [s]
			l1events	332809	Number of level 1 events

2.1.4 Events

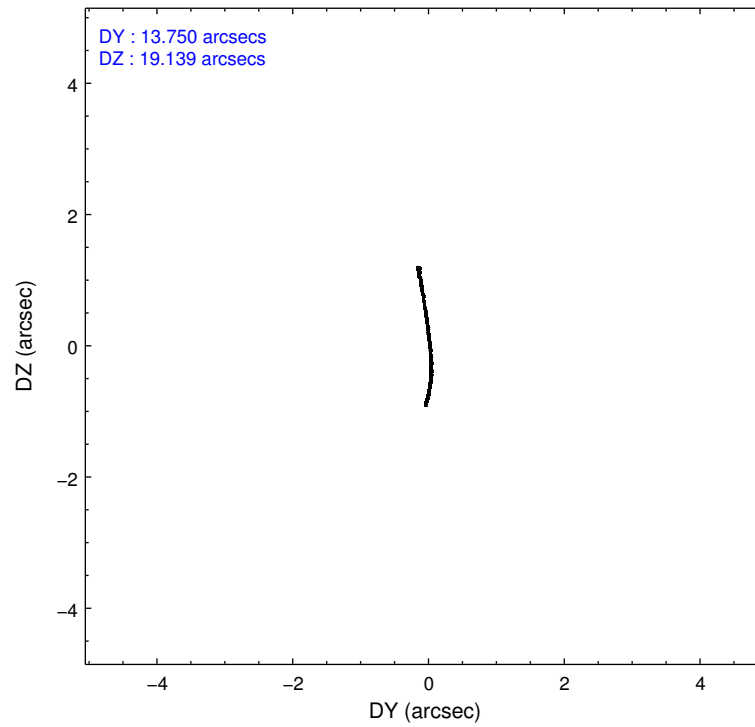
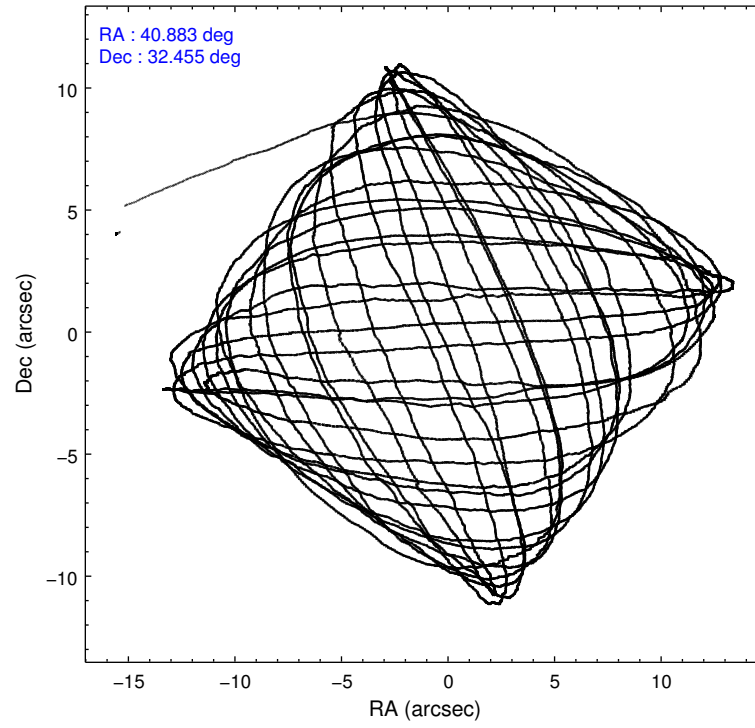
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	80584	82719	85134	84372
rejected events	68881	70651	75050	73779
rejected %	85%	85%	88%	87%

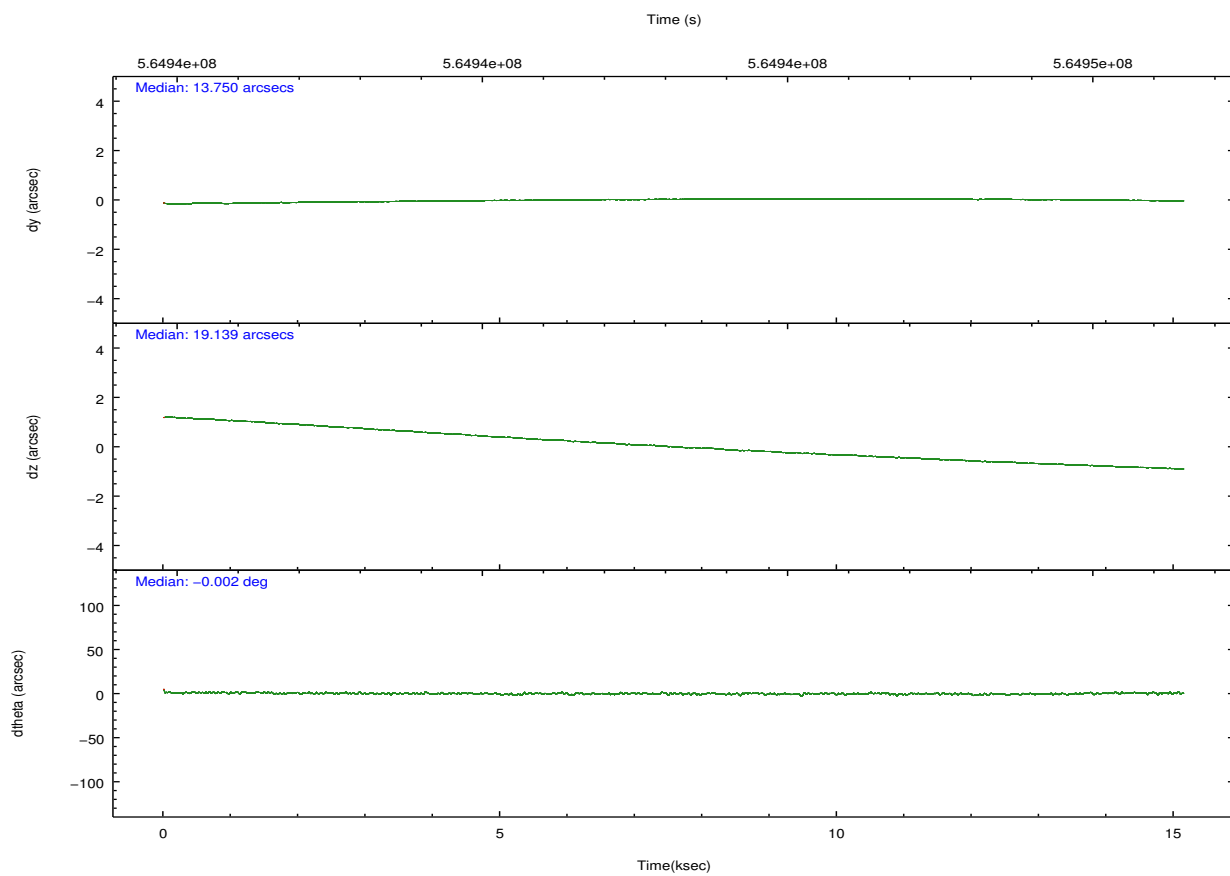
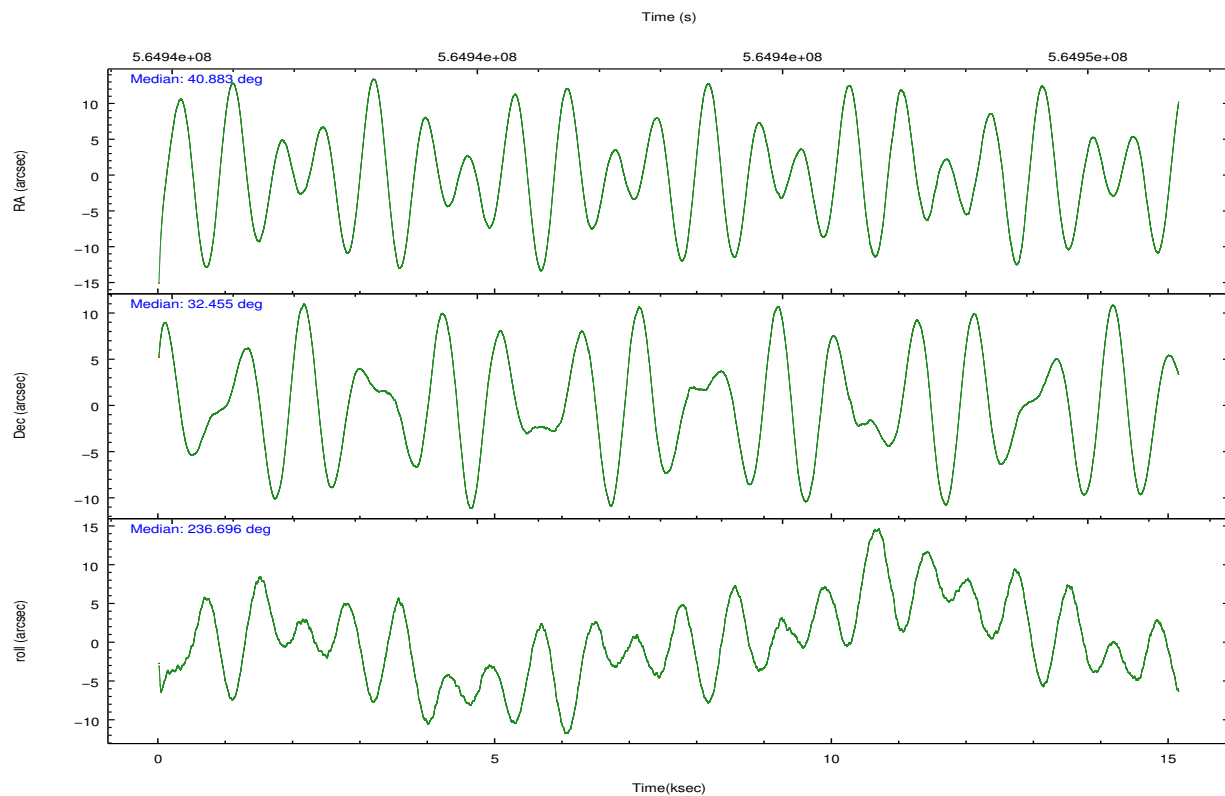
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4921	4913	3837	4282
	6%	5%	4%	5%
grade 1 events	52	50	51	44
	0%	0%	0%	0%
grade 2 events	2668	2669	2425	2270
	3%	3%	2%	2%
grade 3 events	1058	1069	967	1049
	1%	1%	1%	1%
grade 4 events	1022	1110	993	1013
	1%	1%	1%	1%
grade 5 events	3798	4024	3538	4298
	4%	4%	4%	5%
grade 6 events	2036	2312	1865	1983
	2%	2%	2%	2%
grade 7 events	65029	66572	71458	69433
	80%	80%	83%	82%

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	40.884292	40.88252613437095	CCD I2 on	Y	Y
[deg] Pointing Dec	32.482205	32.45464736851266	CCD I3 on	Y	Y
[deg] Pointing Roll	236.490548	236.7001780571011	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)	564935710.184000	564934415.11643	CCD S5 on	N	N
Observation start date	2015-11-26T14:34:02	2015-11-26T14:13:35	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	564950710.184000	564951570.0299	On-chip summing requested	N	N
Observation end date	2015-11-26T18:44:02	2015-11-26T18:59:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



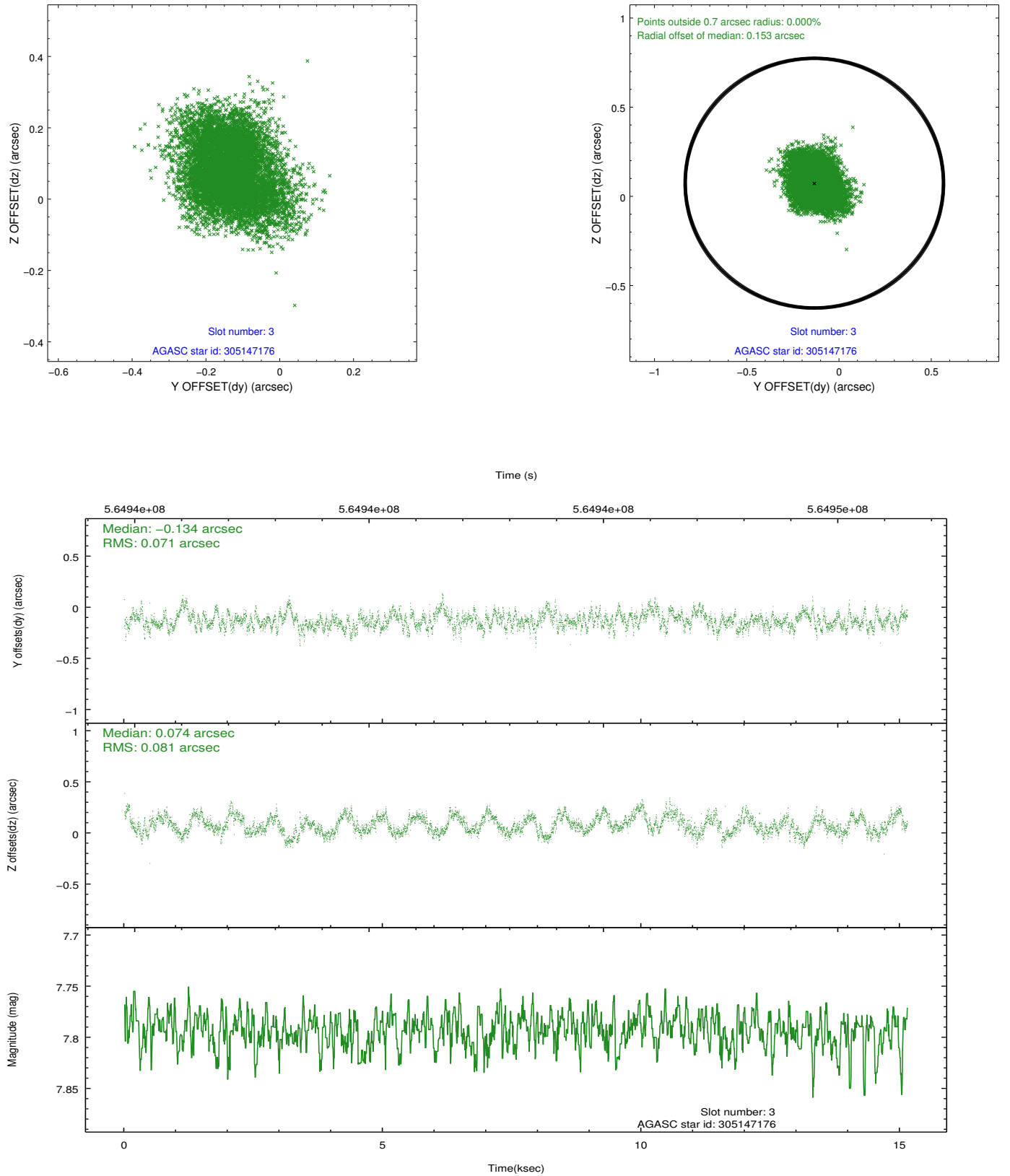


Slot Statistics

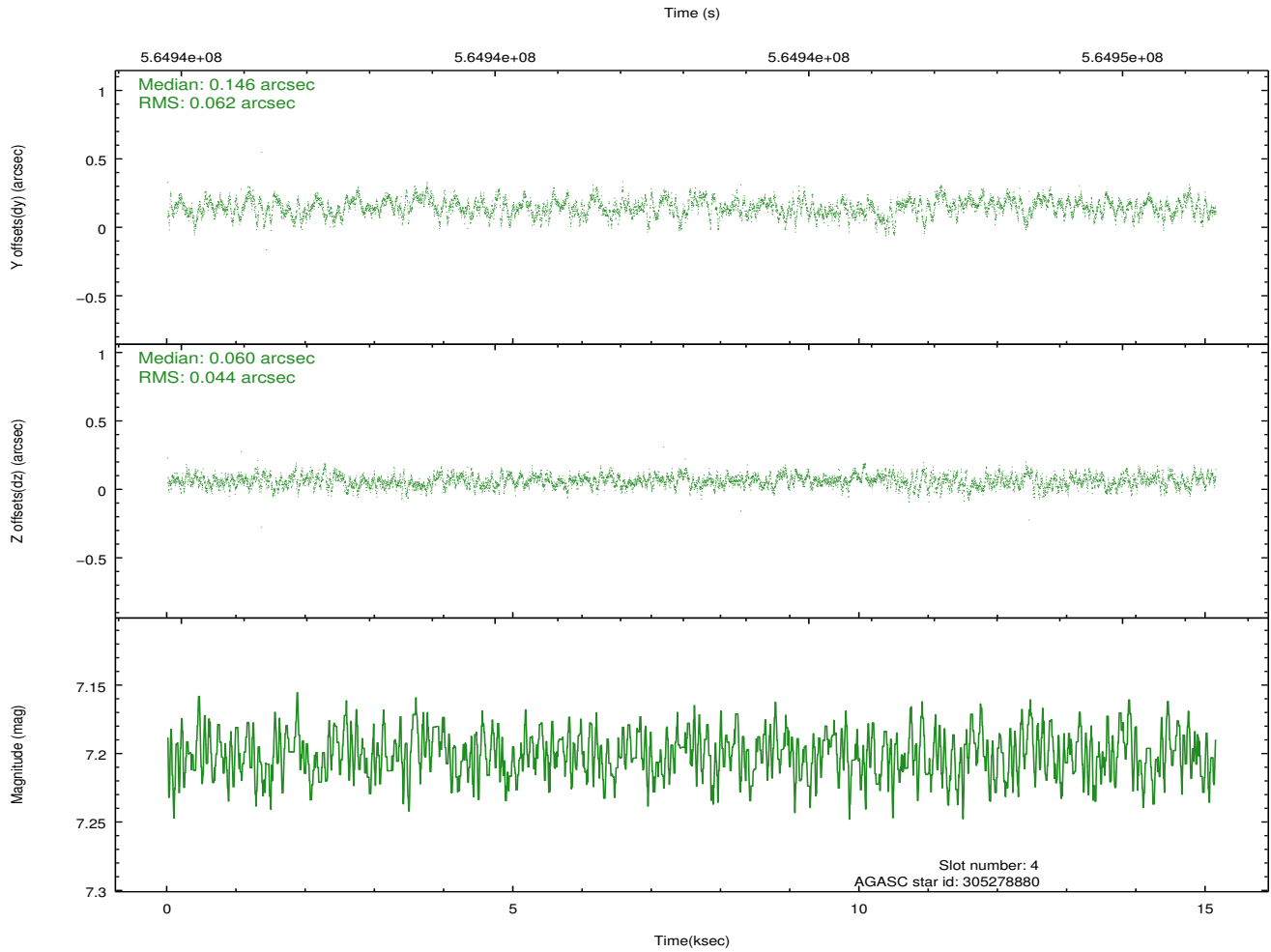
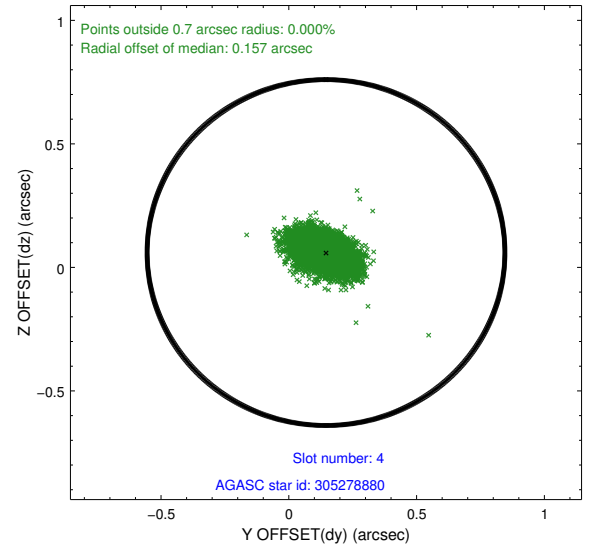
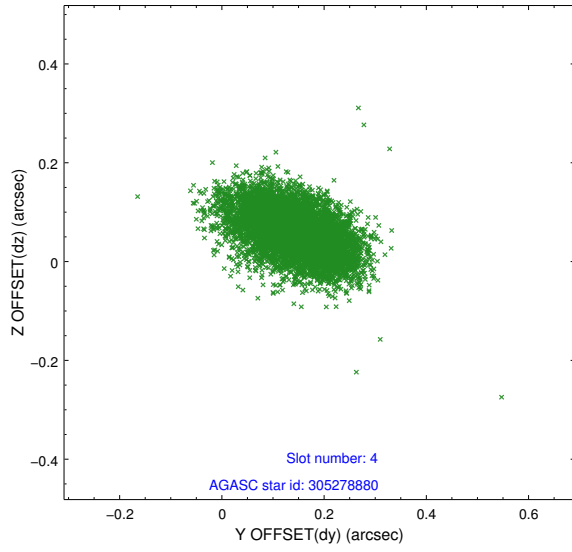
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	3694	-0.177	-0.014	0.013	0.022	0.000000	0.000000	-768.59	-849.29
1	FID		ACIS-I-4	7.20	3694	0.392	0.100	0.018	0.025	0.000000	0.000000	2145.90	1056.84
2	FID		ACIS-I-5	7.25	3692	-0.314	-0.017	0.013	0.022	0.000000	0.000000	-1822.17	1054.92
3	GUIDE	used	305147176	7.79	7384	-0.134	0.074	0.115	0.187	40.109077	32.320442	1781.01	-1649.09
4	GUIDE	used	305278880	7.20	7385	0.146	0.060	0.079	0.136	41.005714	32.370308	132.79	530.34
5	GUIDE	used	305271112	7.73	7386	0.080	-0.061	0.110	0.172	40.672539	32.901478	-904.99	-1365.64
6	GUIDE	used	305275512	7.71	7386	-0.103	0.006	0.124	0.190	40.696155	32.869449	-848.17	-1243.81
7	GUIDE	used	305274344	9.03	7376	0.016	-0.080	0.116	0.188	41.280796	32.752238	-1474.32	464.37

2.4 Star Slots

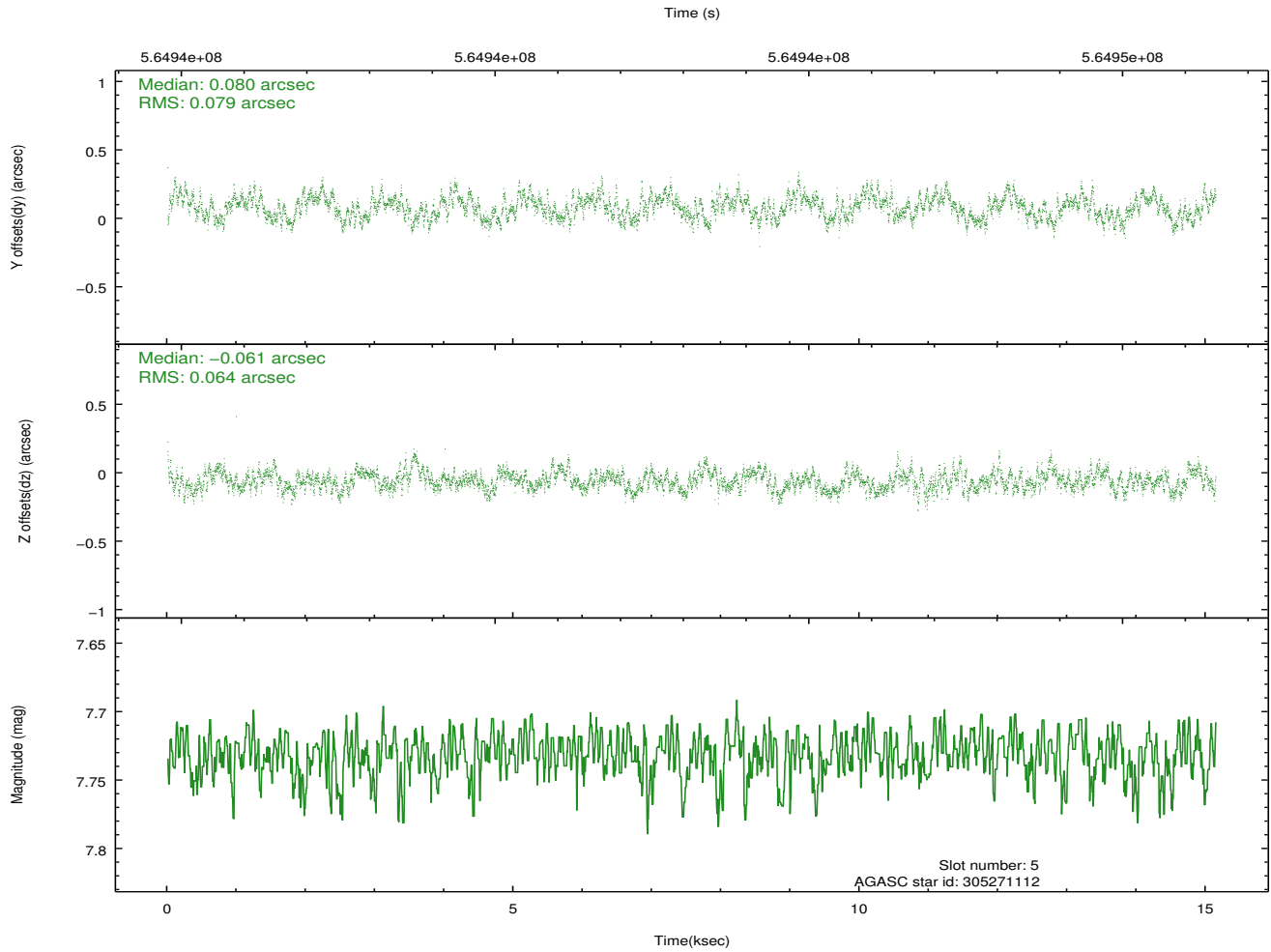
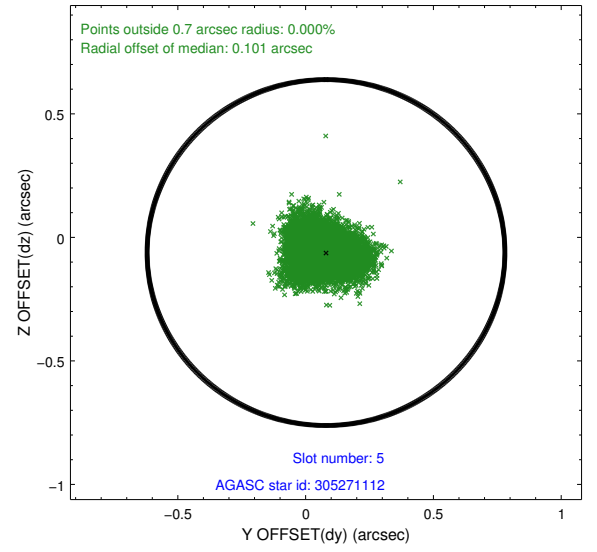
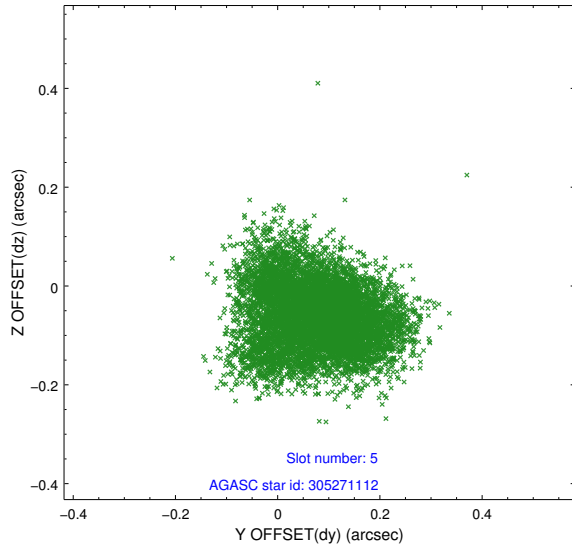
2.4.1 Slot 3



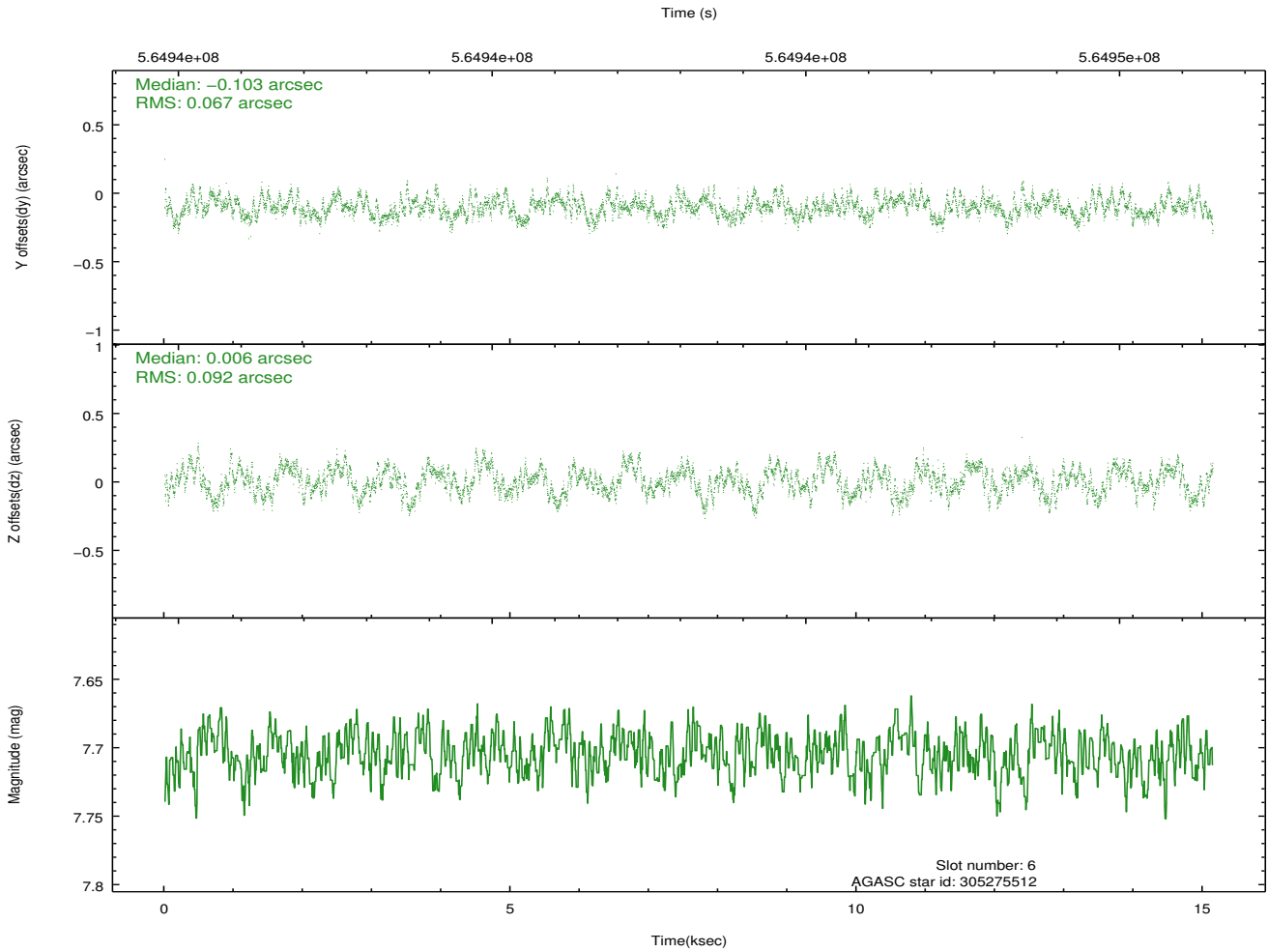
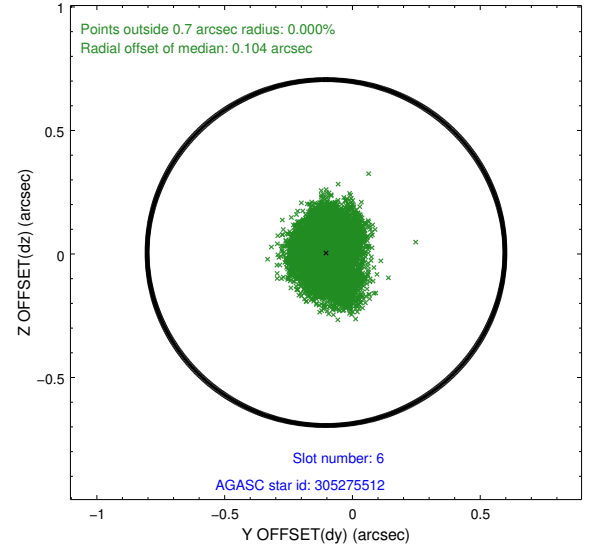
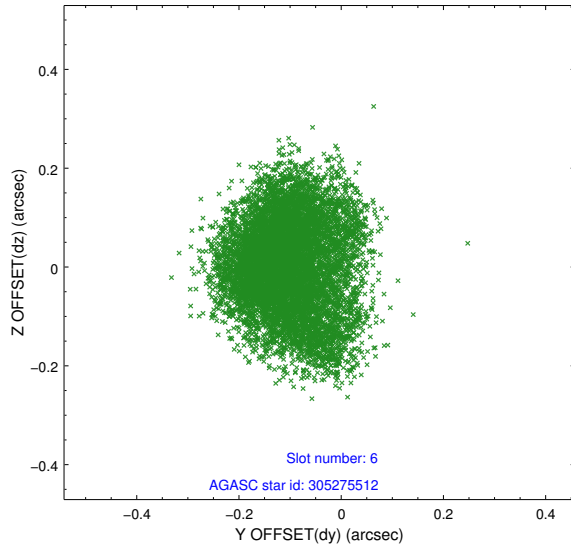
2.4.2 Slot 4



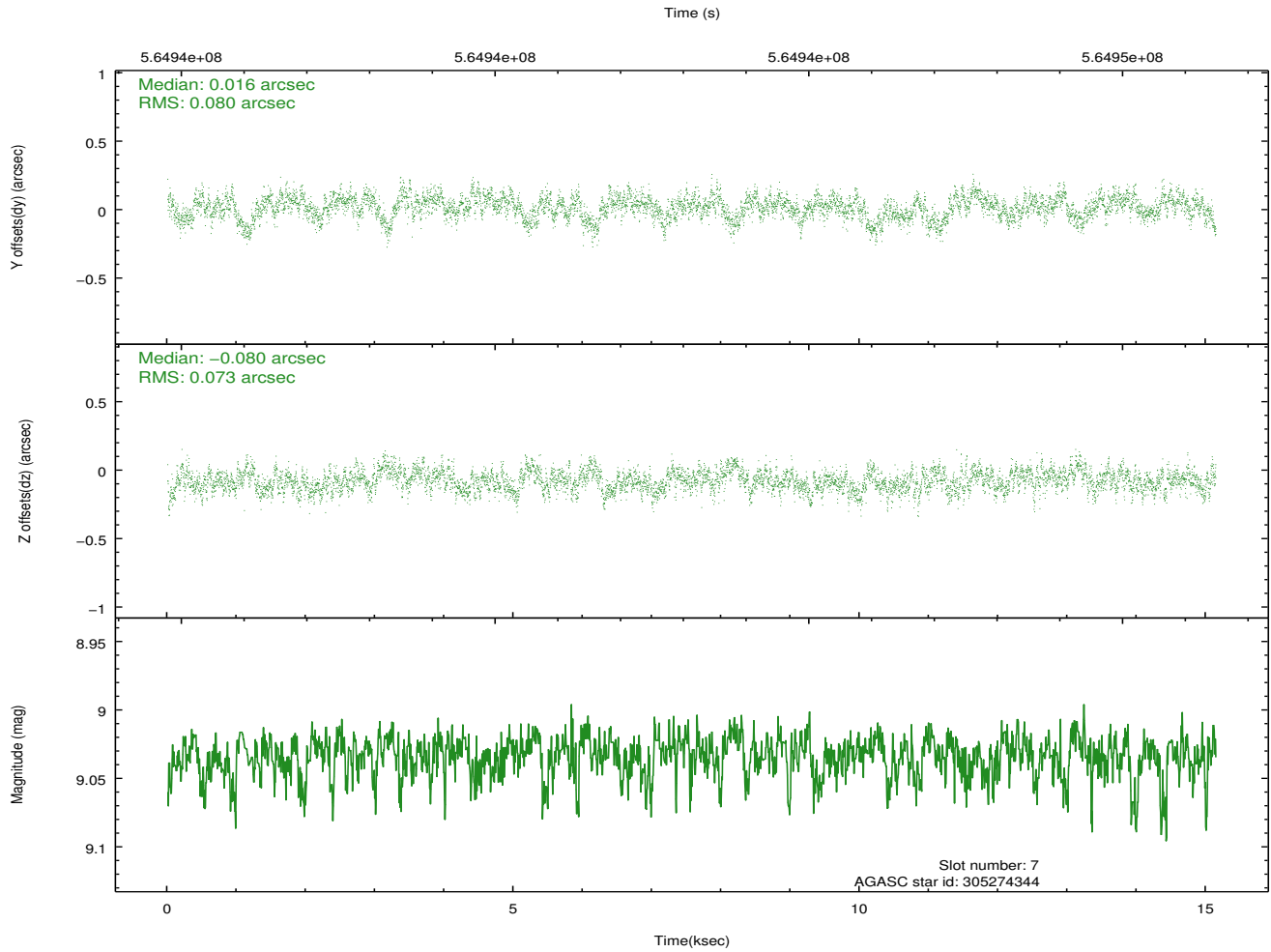
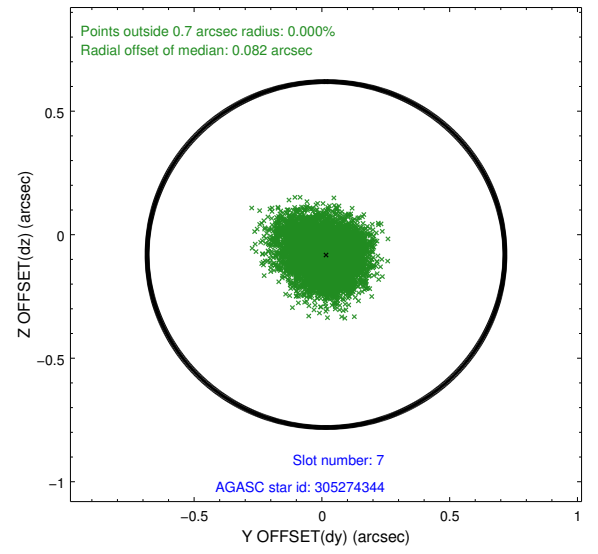
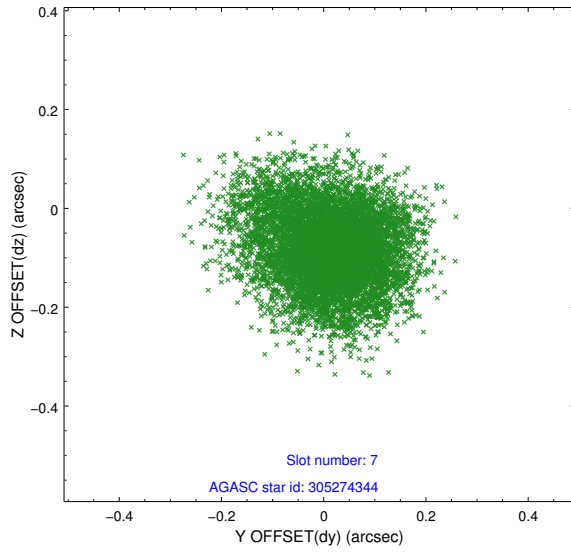
2.4.3 Slot 5



2.4.4 Slot 6

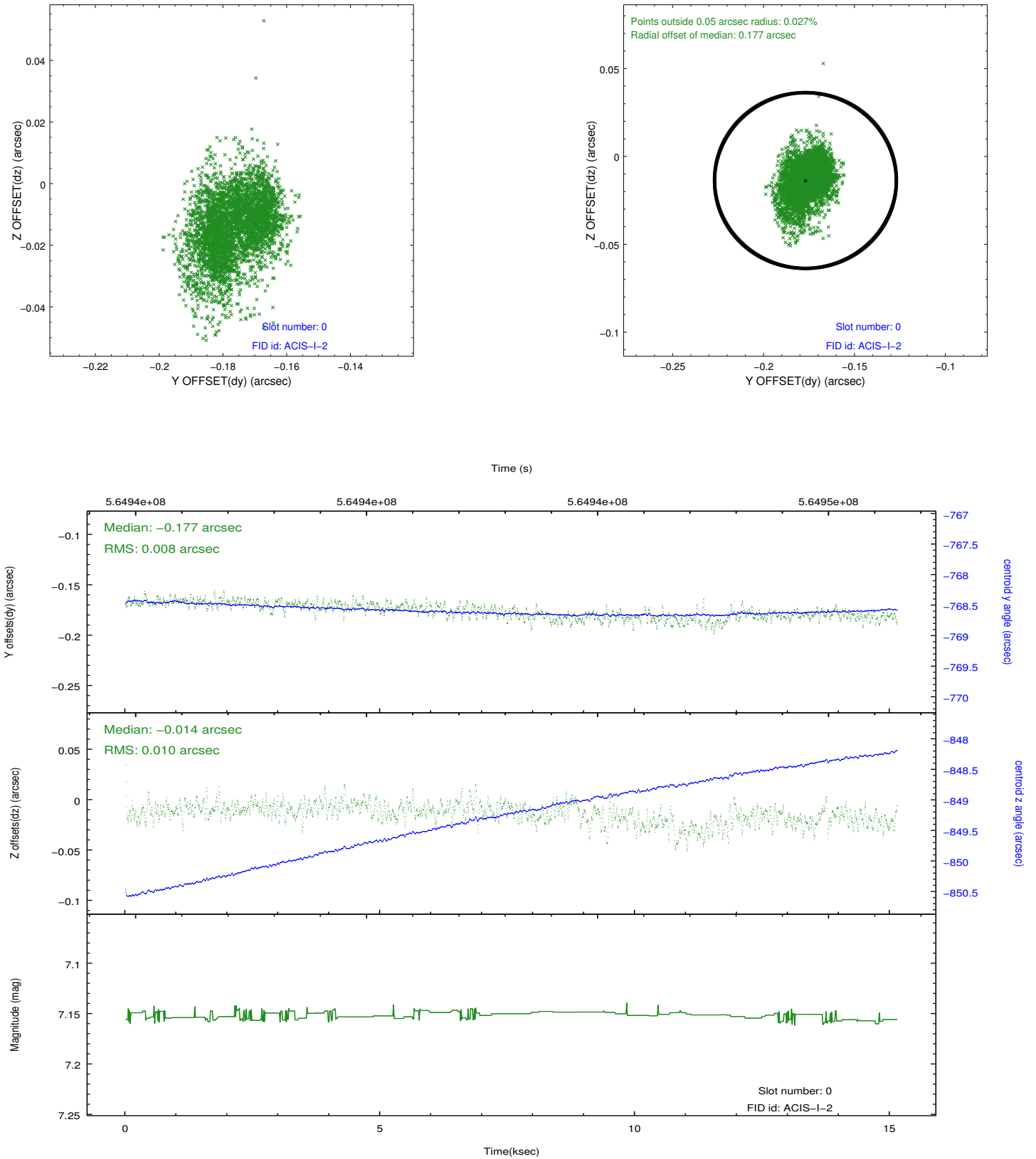


2.4.5 Slot 7

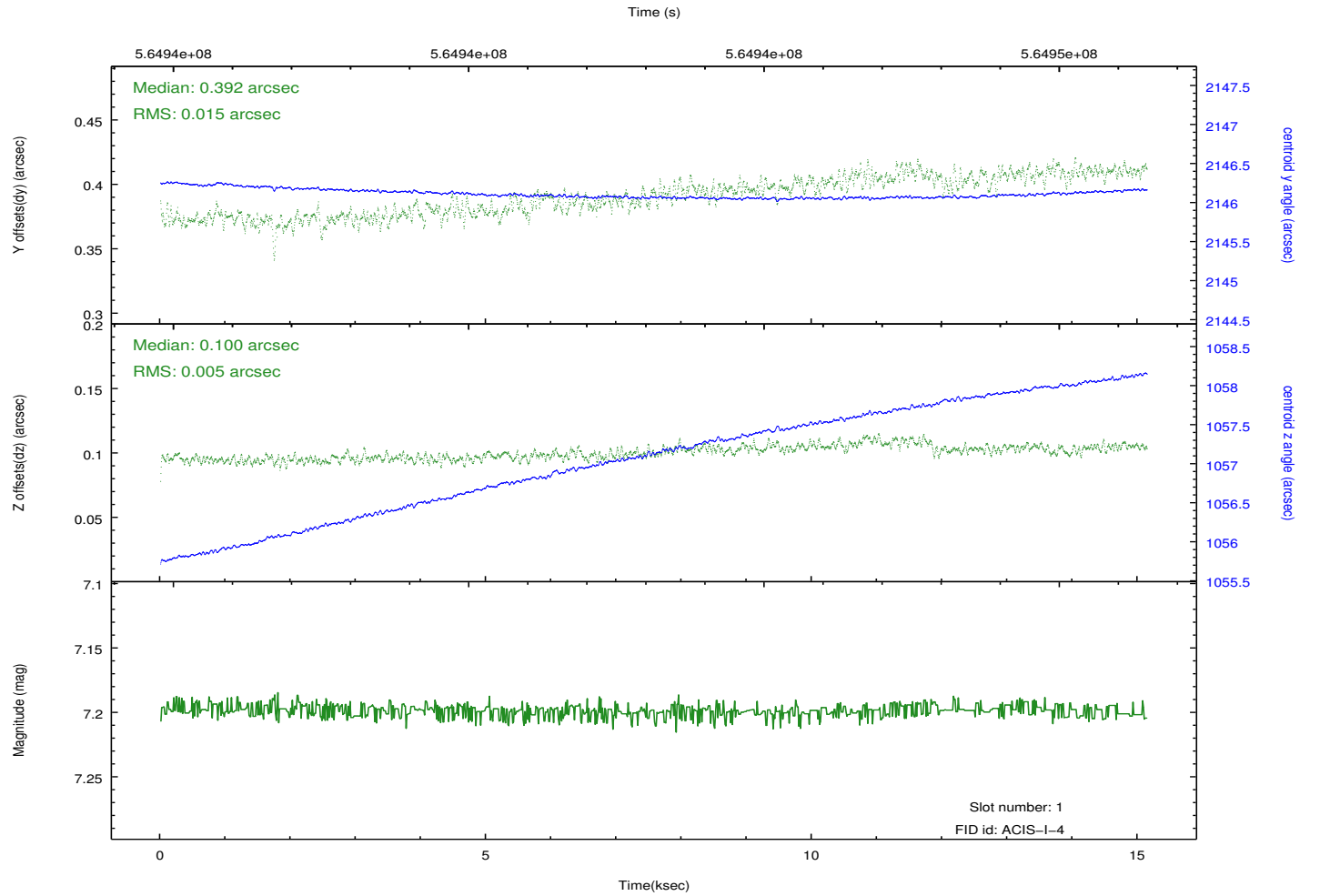
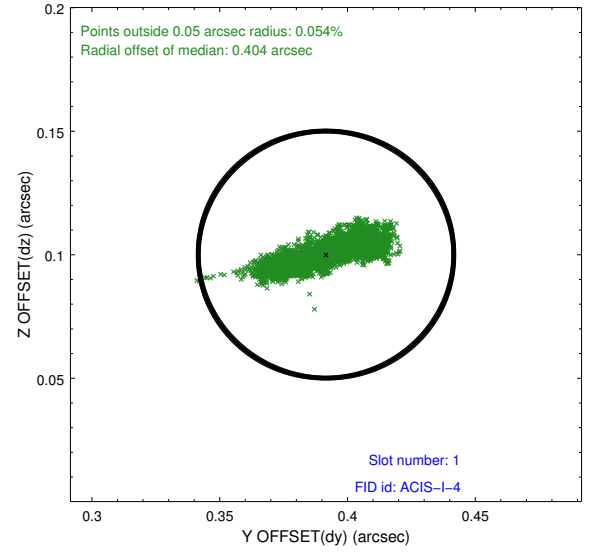
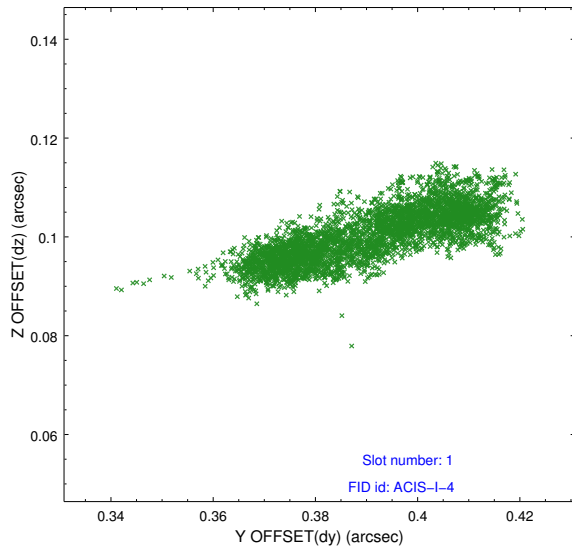


2.5 FID Slots

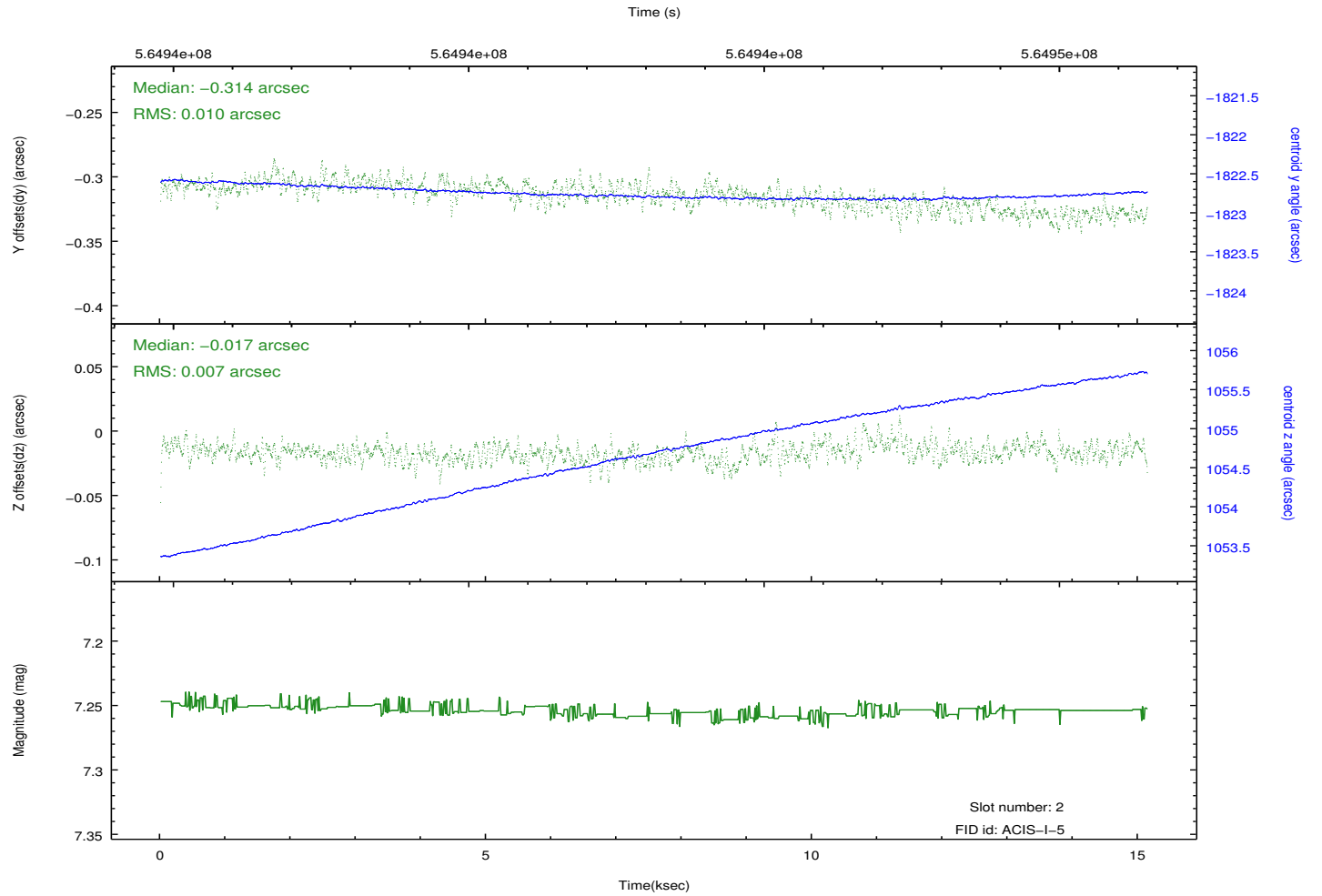
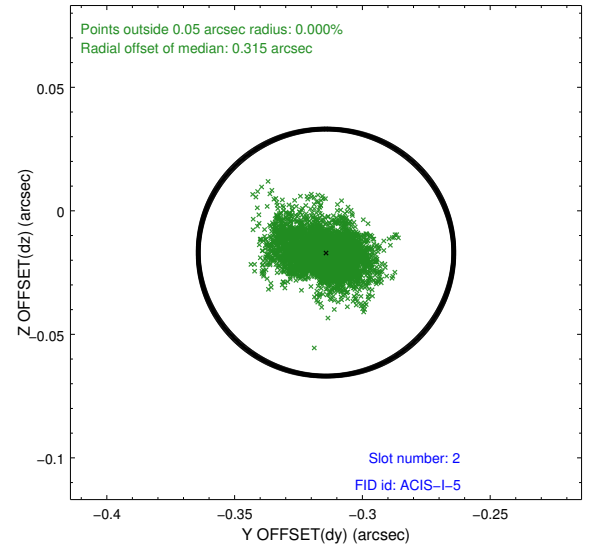
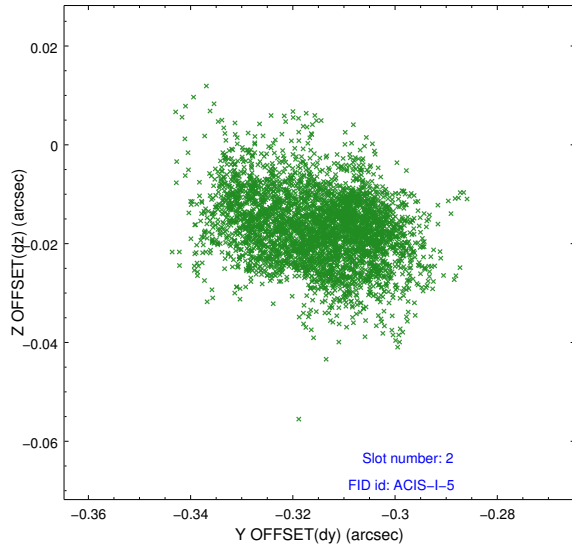
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.080131259799

A.2 Comments