

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18712 - L2 Version 1
Chandra X-Ray Center

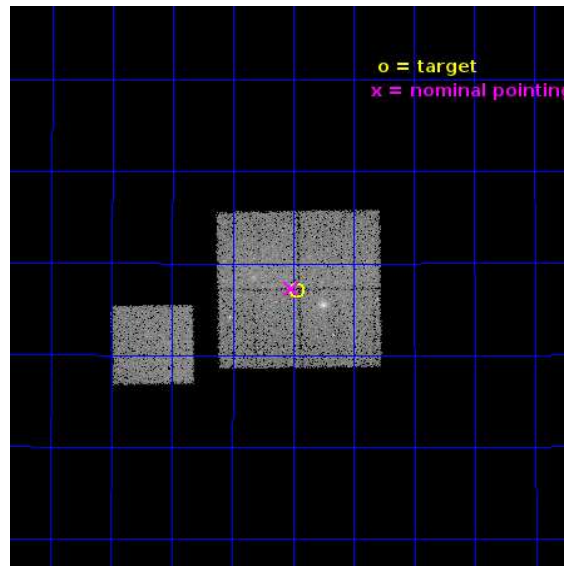
L2 Processing Date : Dec 22 2015

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1 Front

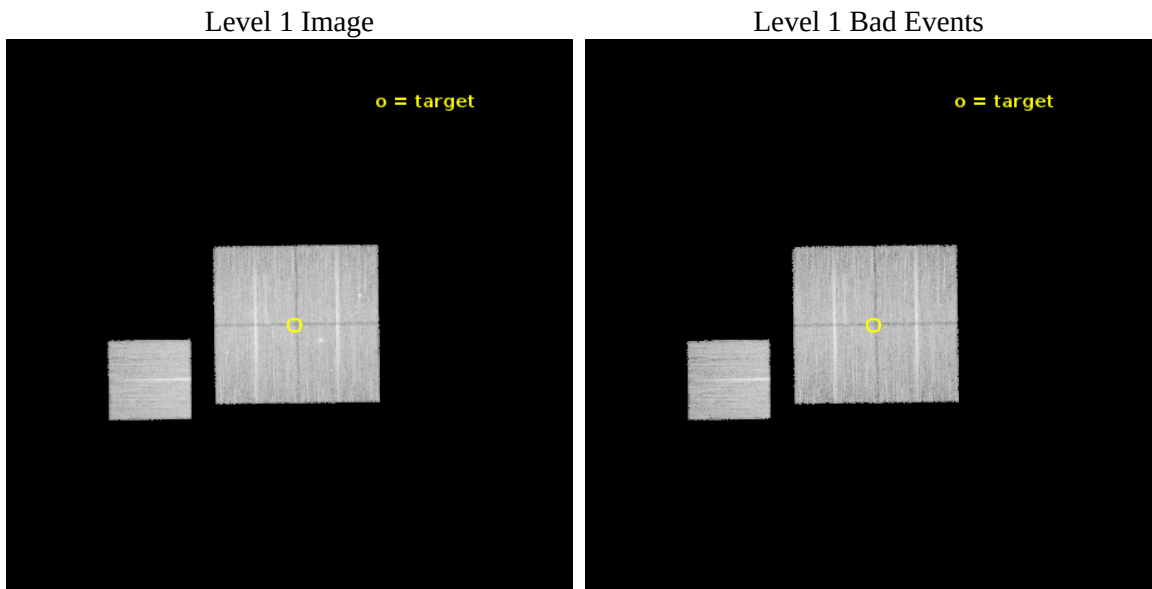
seq_num	801593	Sequence number
obs_id	18712	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.878553232275	Nominal RA [deg]
dec_nom	32.454463532359	Nominal Dec [deg]
roll_nom	269.20232076353	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22072.000169873	Sum of GTIs [s]
livetime	21783.613238484	Livetime [s]
ontime0	22065.718009353	Sum of GTIs [s]
ontime1	22072.000169873	Sum of GTIs [s]
ontime2	22072.000169873	Sum of GTIs [s]
ontime3	22072.000169873	Sum of GTIs [s]
ontime6	22072.000169873	Sum of GTIs [s]
l2events	64990	Number of level 2 events



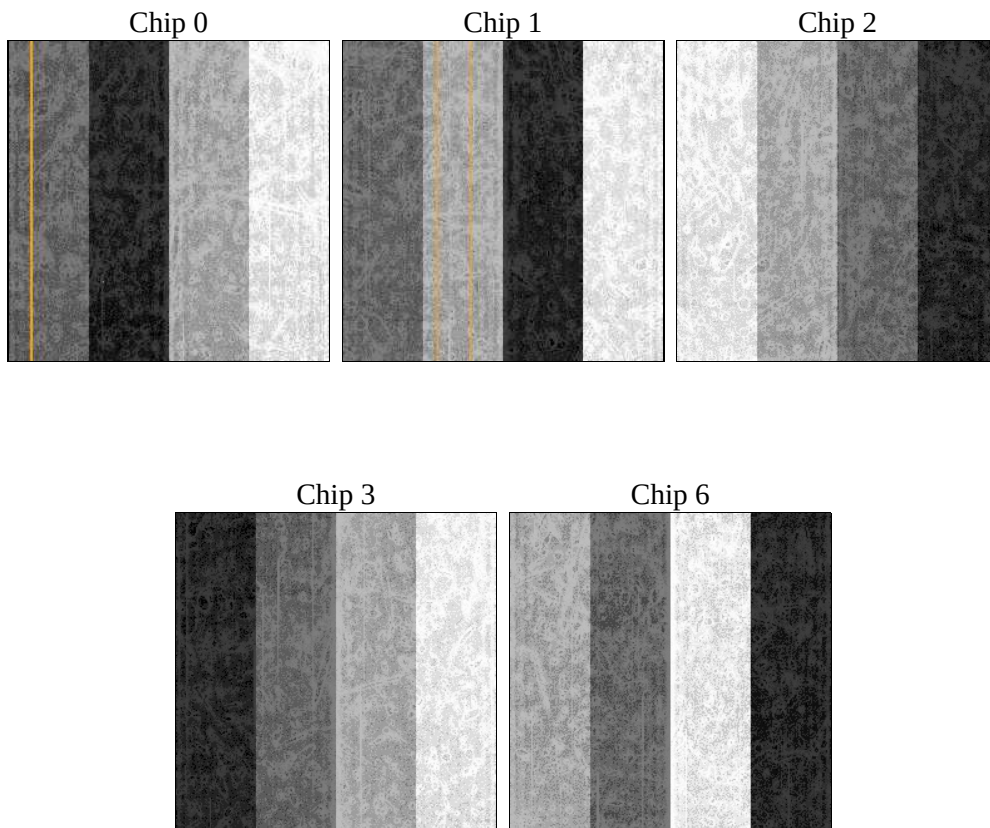
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	22072.000169873	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	22065.718009353	Sum of GTIs [s]
date	2015-12-23T01:47:32	Date and time of file creation	ontime1	22072.000169873	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	22072.000169873	Sum of GTIs [s]
			ontime3	22072.000169873	Sum of GTIs [s]
			ontime6	22072.000169873	Sum of GTIs [s]
			l1events	636158	Number of level 1 events

2.1.4 Events

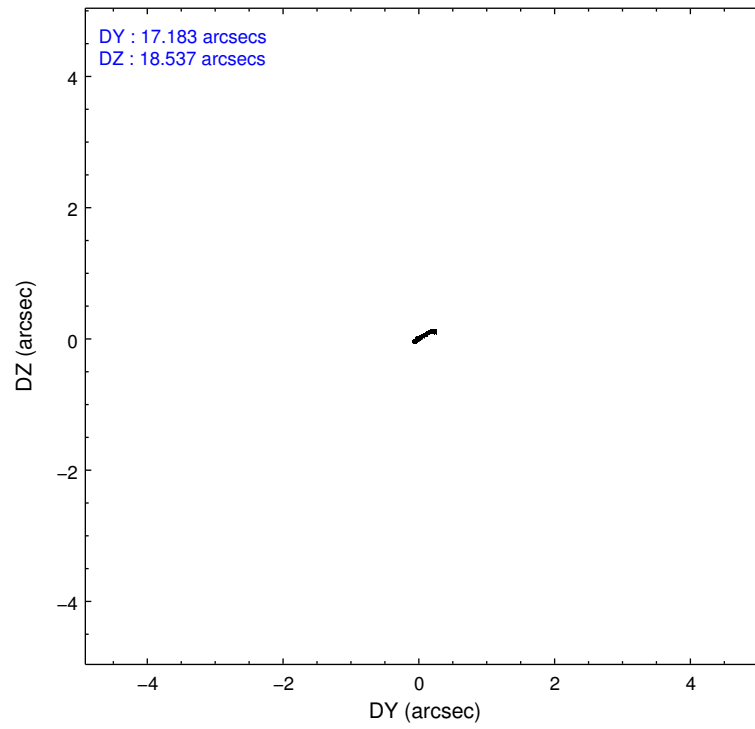
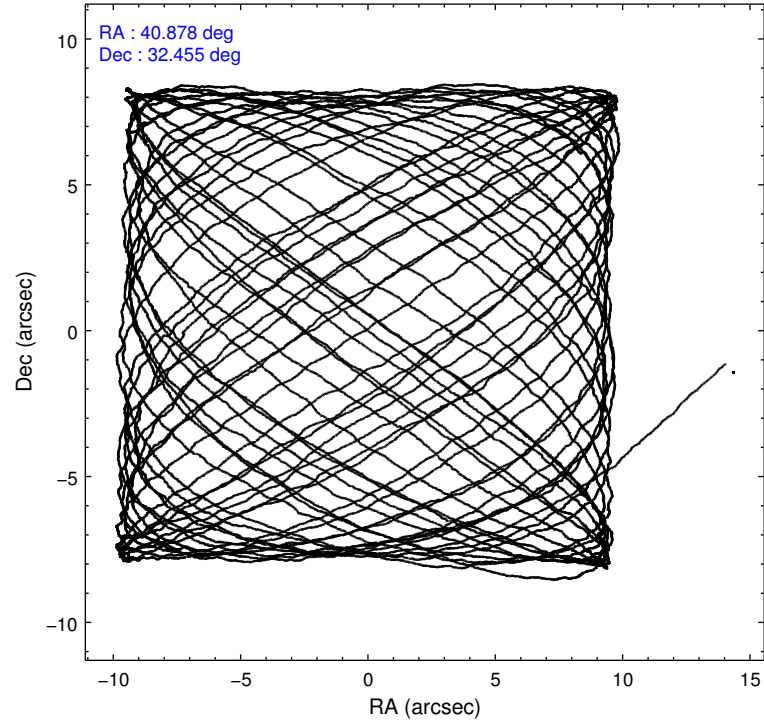
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	121433	123219	131213	128182	132111
rejected events	105421	106724	116667	113193	117664
rejected %	86%	86%	88%	88%	89%

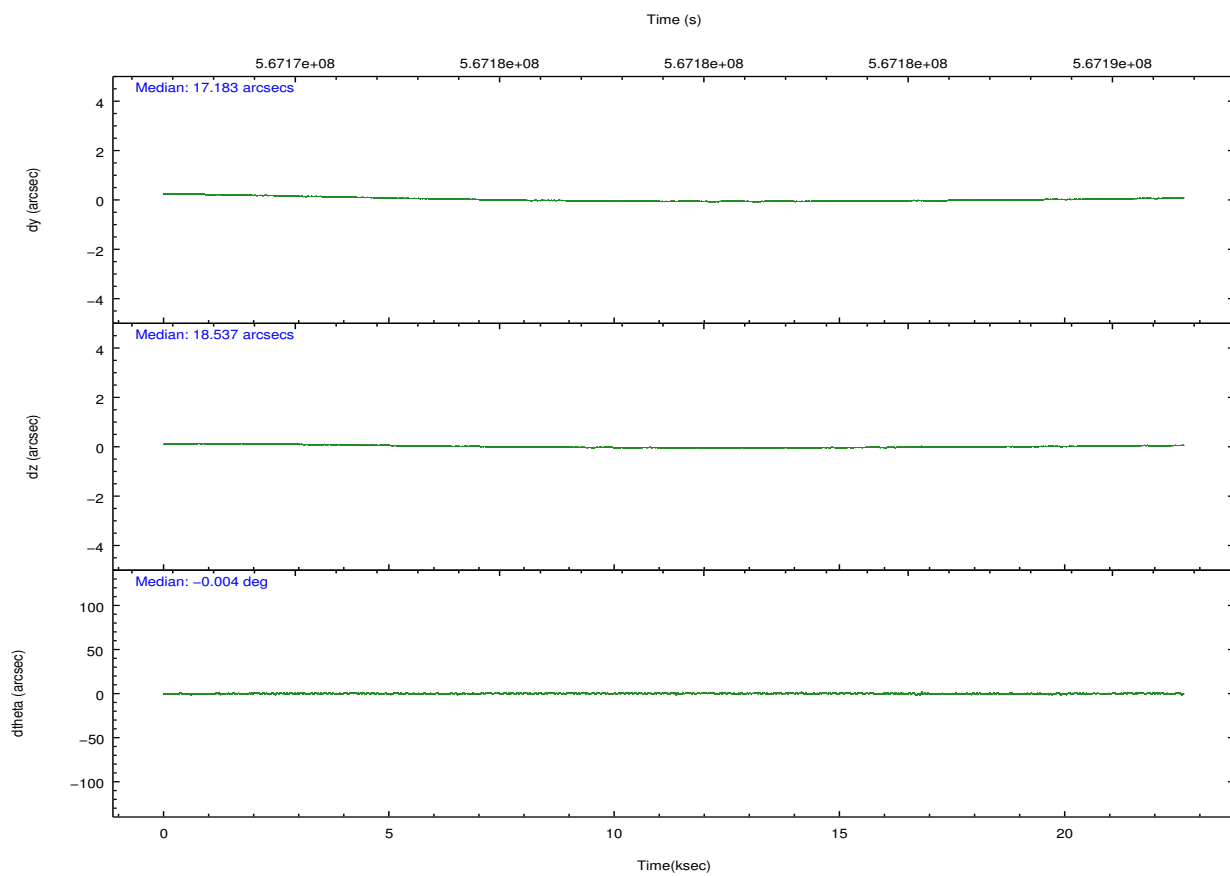
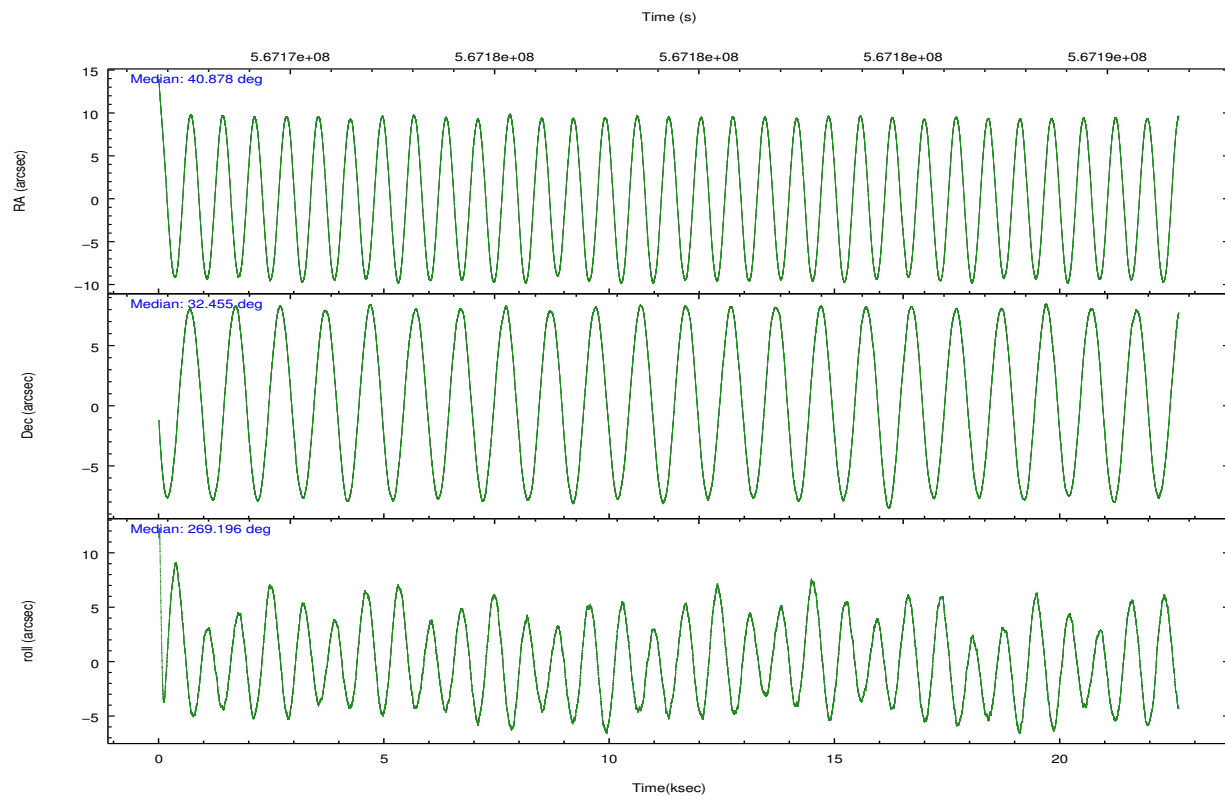
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6516	6324	5659	6055	4734
	5%	5%	4%	4%	3%
grade 1 events	79	87	65	84	50
	0%	0%	0%	0%	0%
grade 2 events	3648	3597	3324	3141	3384
	3%	2%	2%	2%	2%
grade 3 events	1448	1497	1451	1455	1473
	1%	1%	1%	1%	1%
grade 4 events	1422	1484	1407	1454	1356
	1%	1%	1%	1%	1%
grade 5 events	5656	5541	4979	6227	5929
	4%	4%	3%	4%	4%
grade 6 events	2985	3597	2709	2888	3505
	2%	2%	2%	2%	2%
grade 7 events	99679	101092	111619	106878	111680
	82%	82%	85%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	40.87855323227475	CCD I2 on	Y	Y
[deg] Pointing Dec	32.478525	32.45446353235889	CCD I3 on	Y	Y
[deg] Pointing Roll	269.002257	269.2023207635324	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	Y
[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)	567168576.184000	567167413.10549	CCD S5 on	N	N
Observation start date	2015-12-22T10:48:28	2015-12-22T10:30:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	567190576.184000	567191081.38182	On-chip summing requested	N	N
Observation end date	2015-12-22T16:55:08	2015-12-22T17:04:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



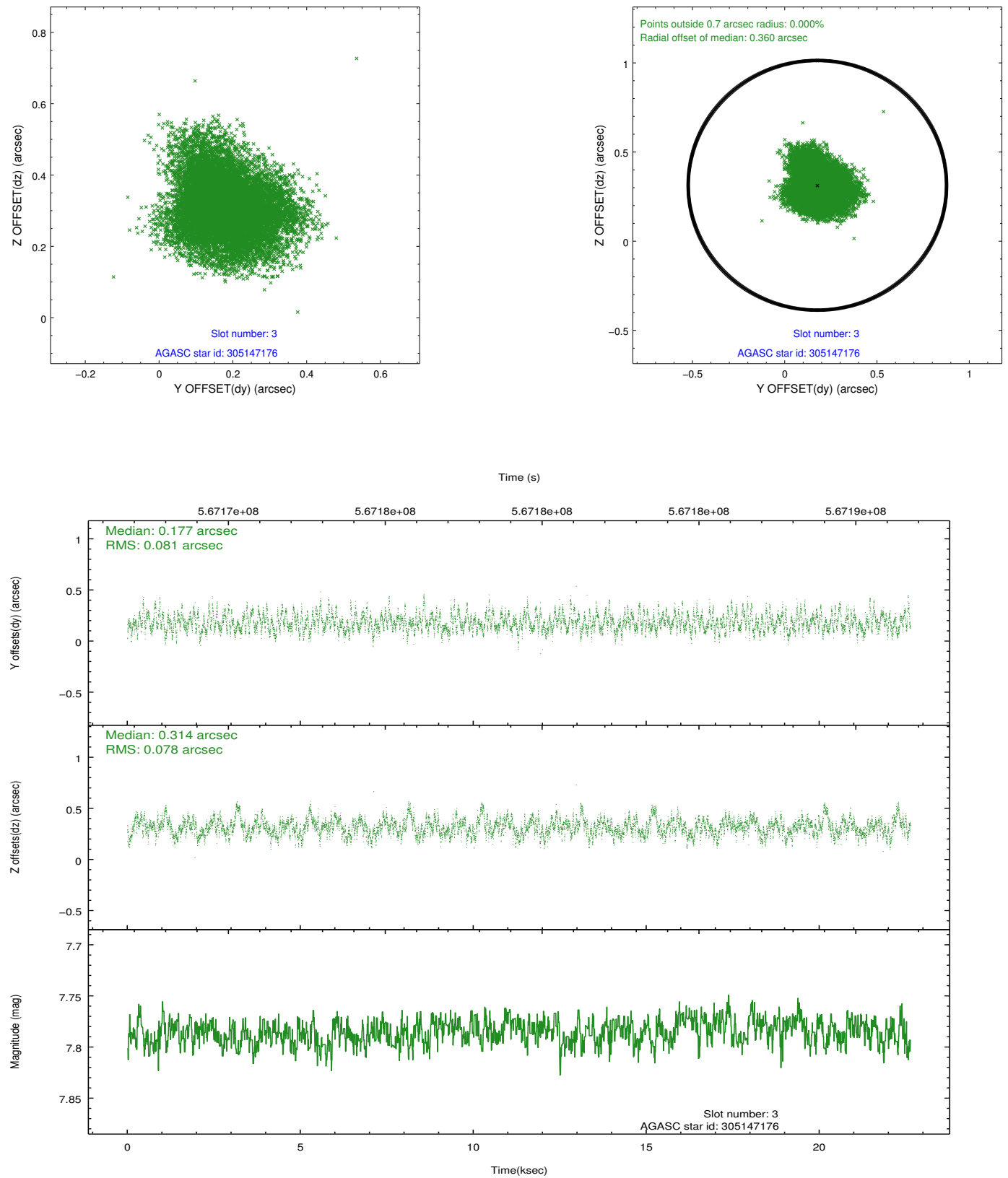


Slot Statistics

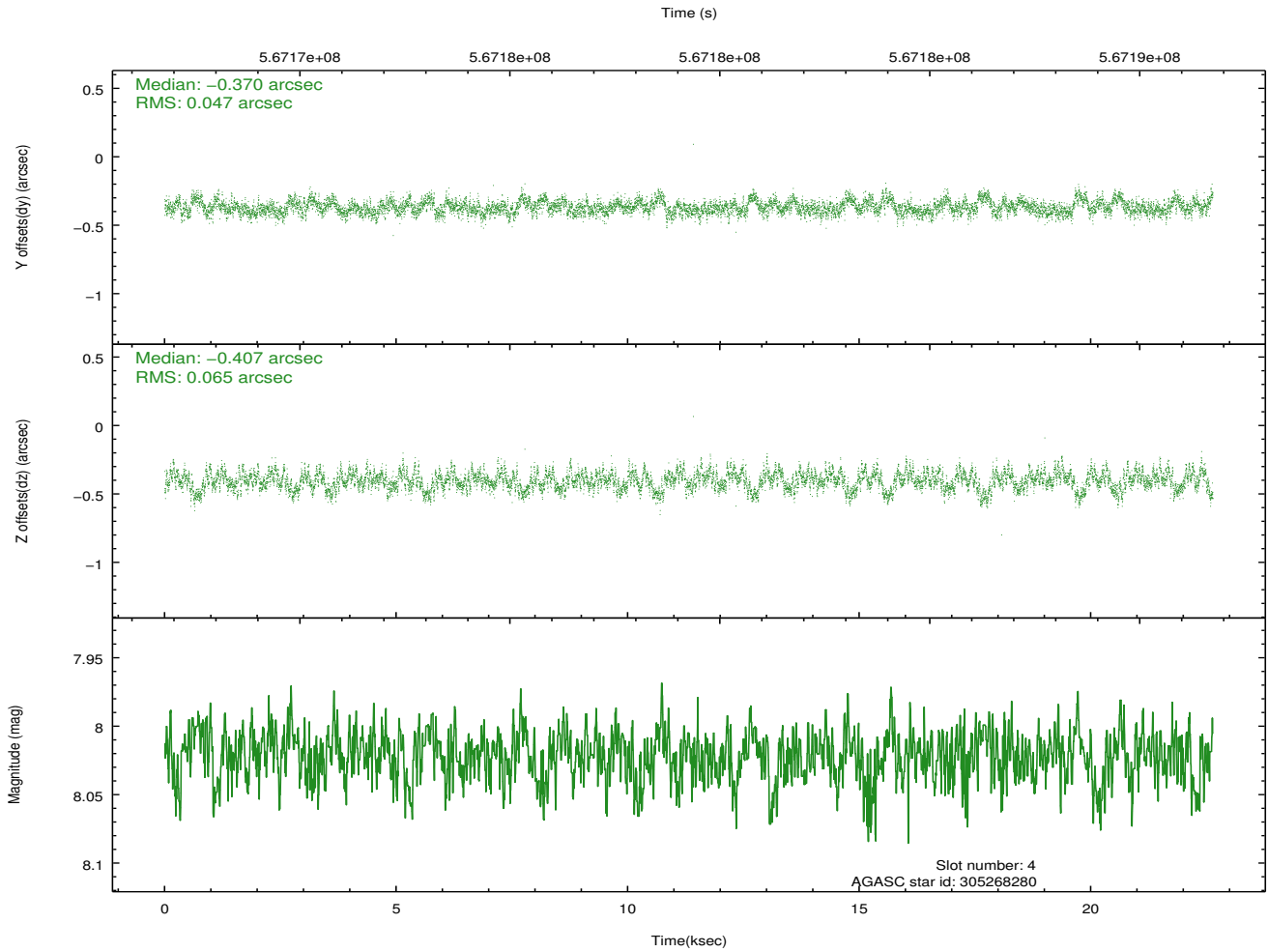
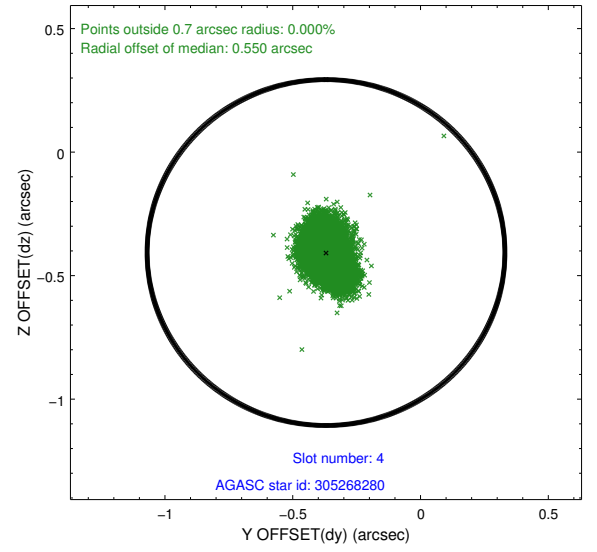
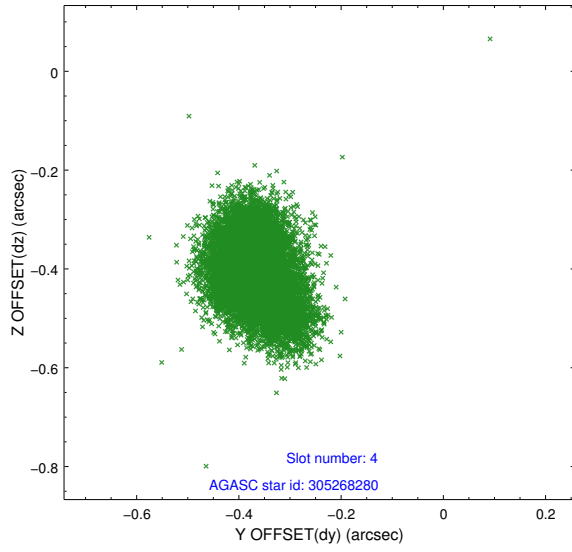
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	5521	0.061	0.007	0.007	0.013	0.000000	0.000000	922.28	-842.20
1	FID		ACIS-I-5	7.25	5521	-0.356	0.031	0.006	0.011	0.000000	0.000000	-1826.24	1055.12
2	FID		ACIS-I-6	7.27	5521	0.203	0.032	0.007	0.012	0.000000	0.000000	387.70	1699.89
3	GUIDE	used	305147176	7.79	11039	0.177	0.314	0.121	0.193	40.109077	32.320442	601.68	-2281.32
4	GUIDE	used	305268280	8.02	11039	-0.370	-0.407	0.084	0.139	41.584929	31.994907	1695.13	2235.23
5	GUIDE	used	305275512	7.72	11035	-0.105	0.202	0.087	0.137	40.696155	32.869449	-1397.99	-526.73
6	GUIDE	used	305278880	7.20	11041	0.312	-0.220	0.077	0.129	41.005714	32.370308	382.16	442.21
7	GUIDE	used	305271112	7.74	11040	-0.026	0.108	0.091	0.141	40.672539	32.901478	-1511.77	-599.21

2.4 Star Slots

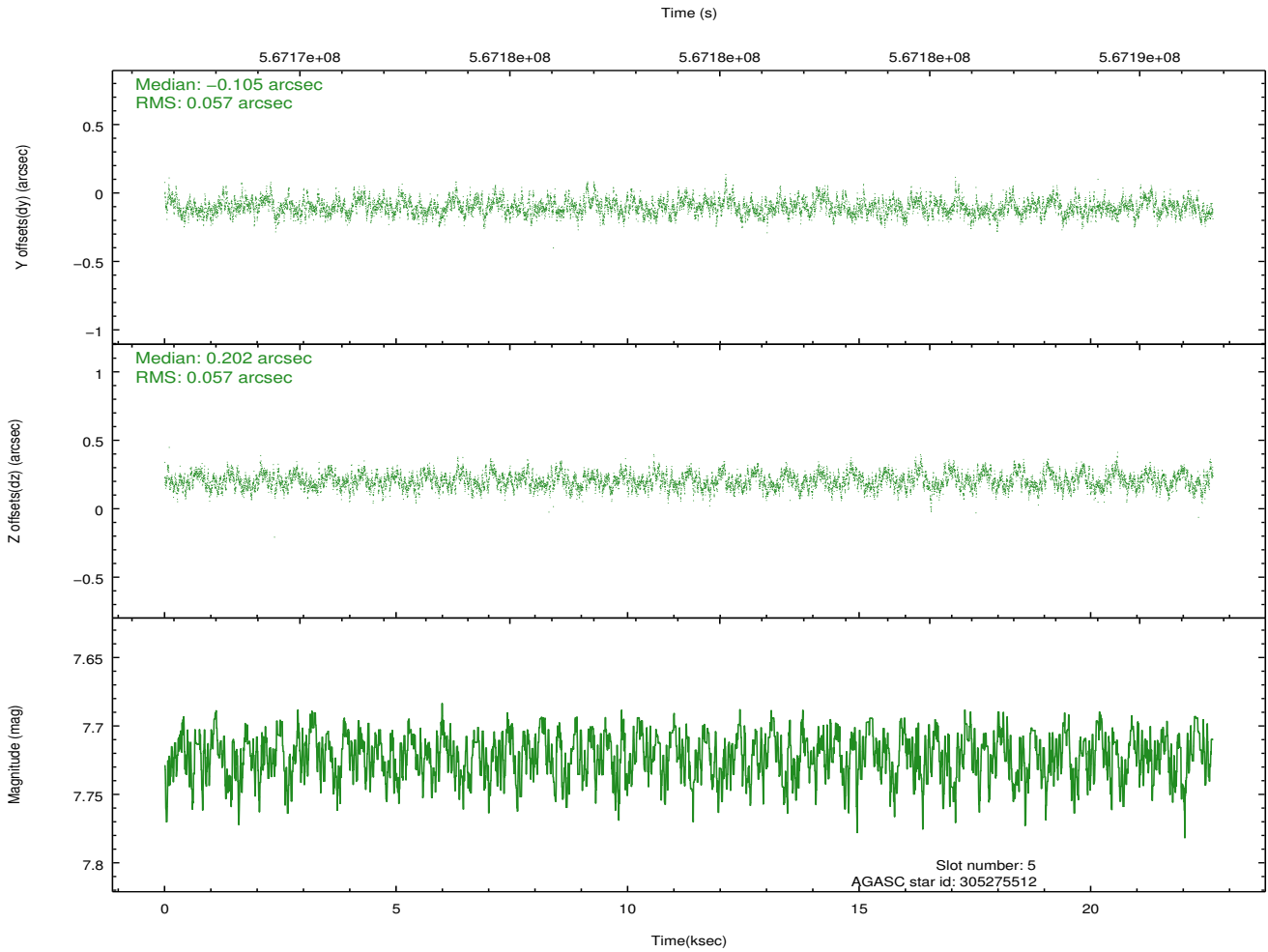
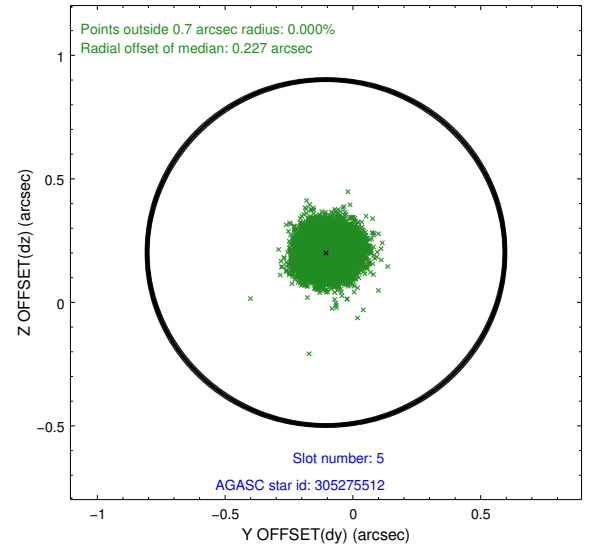
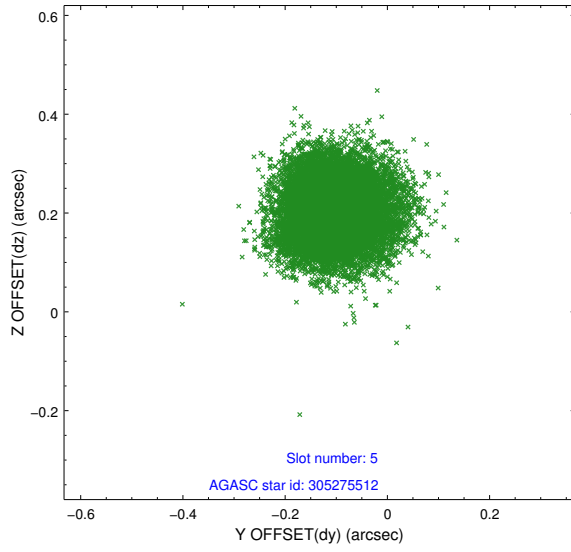
2.4.1 Slot 3



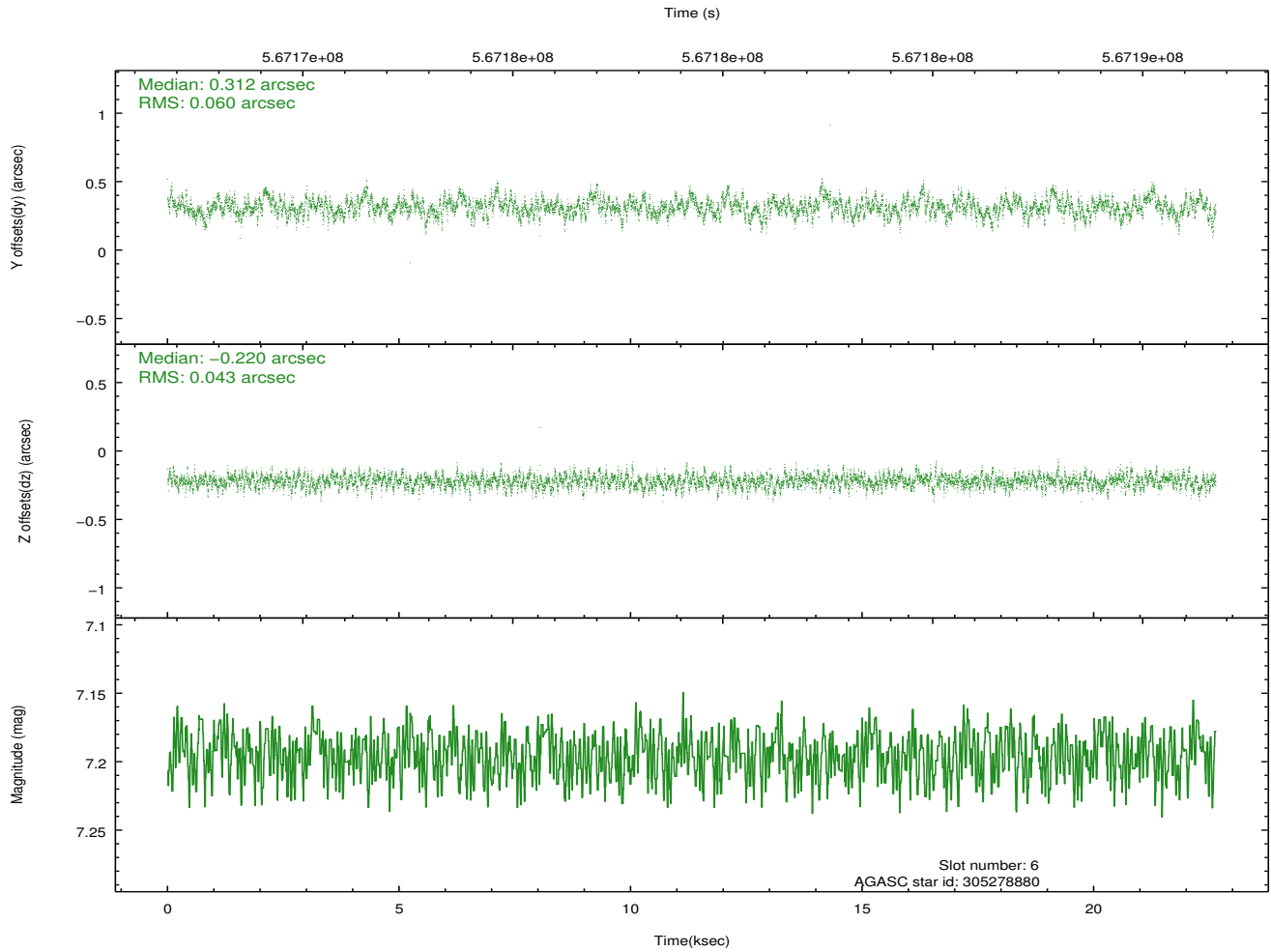
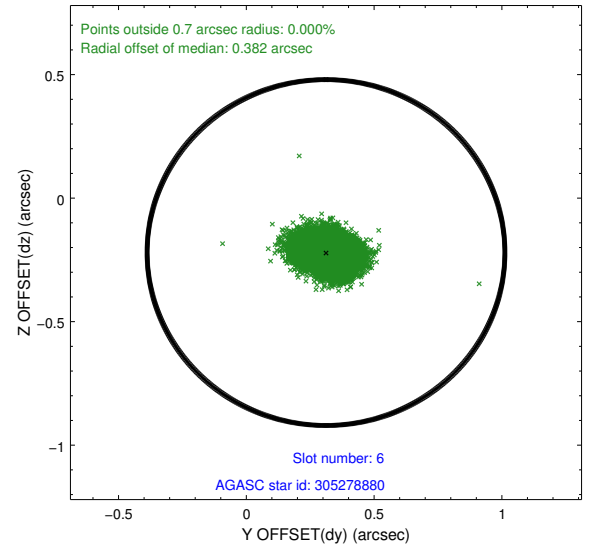
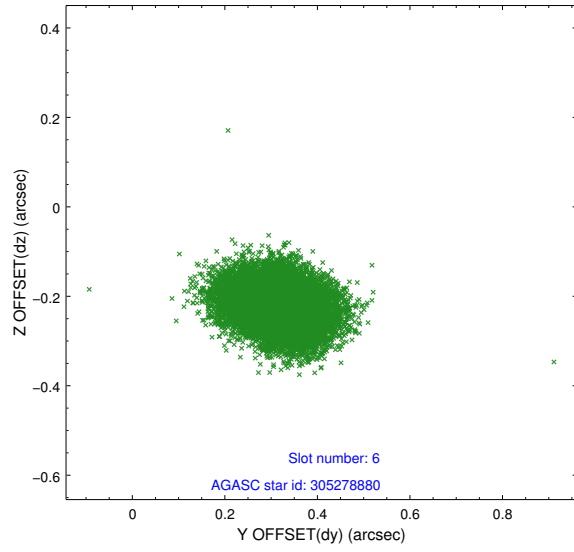
2.4.2 Slot 4



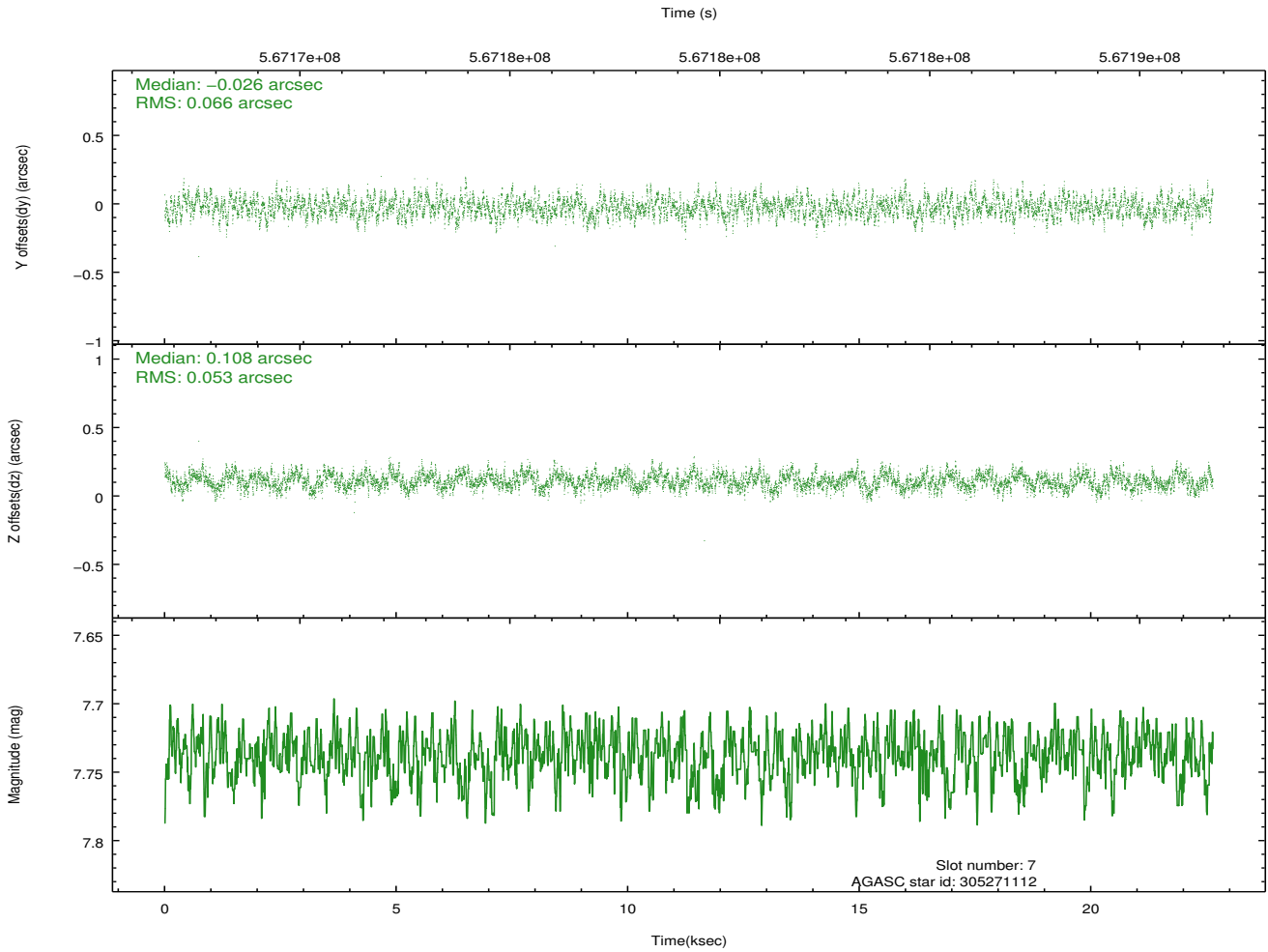
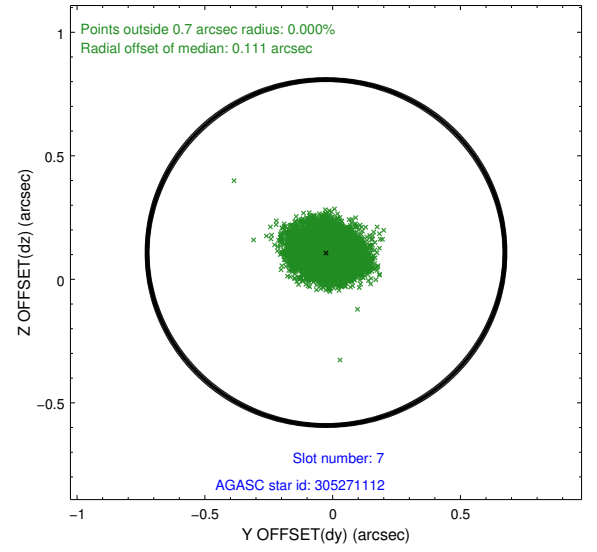
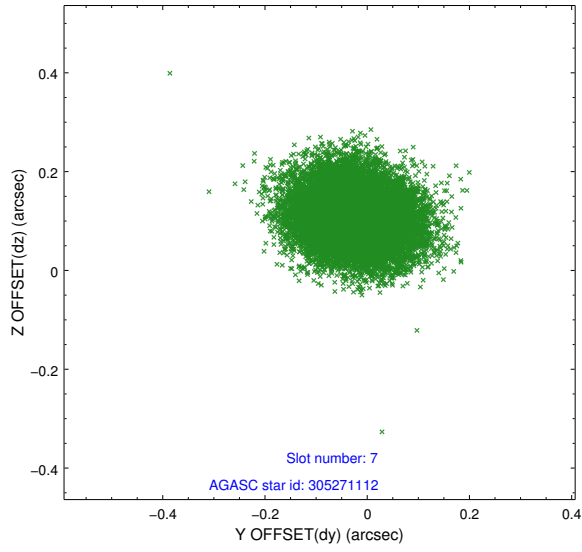
2.4.3 Slot 5



2.4.4 Slot 6

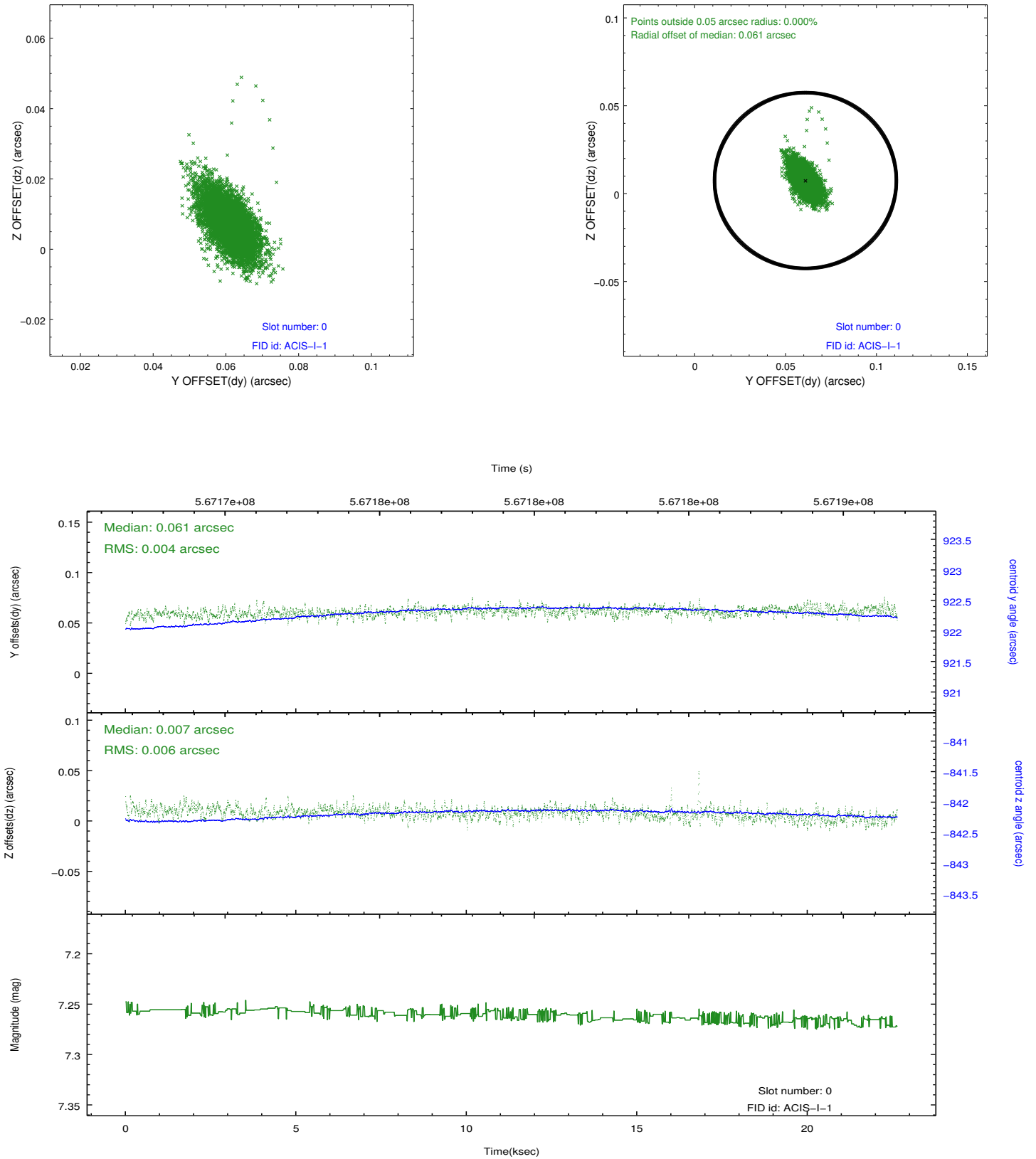


2.4.5 Slot 7

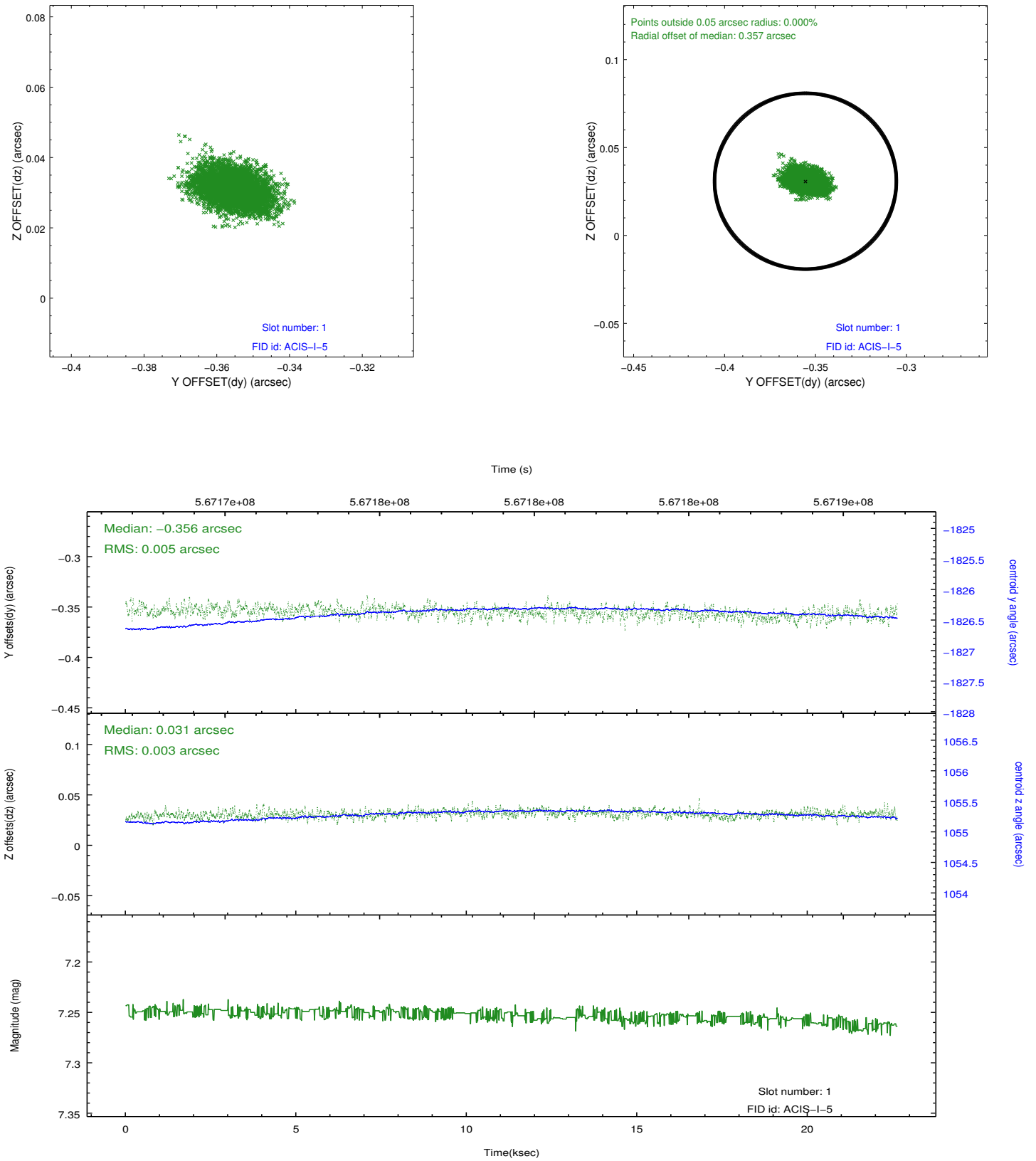


2.5 FID Slots

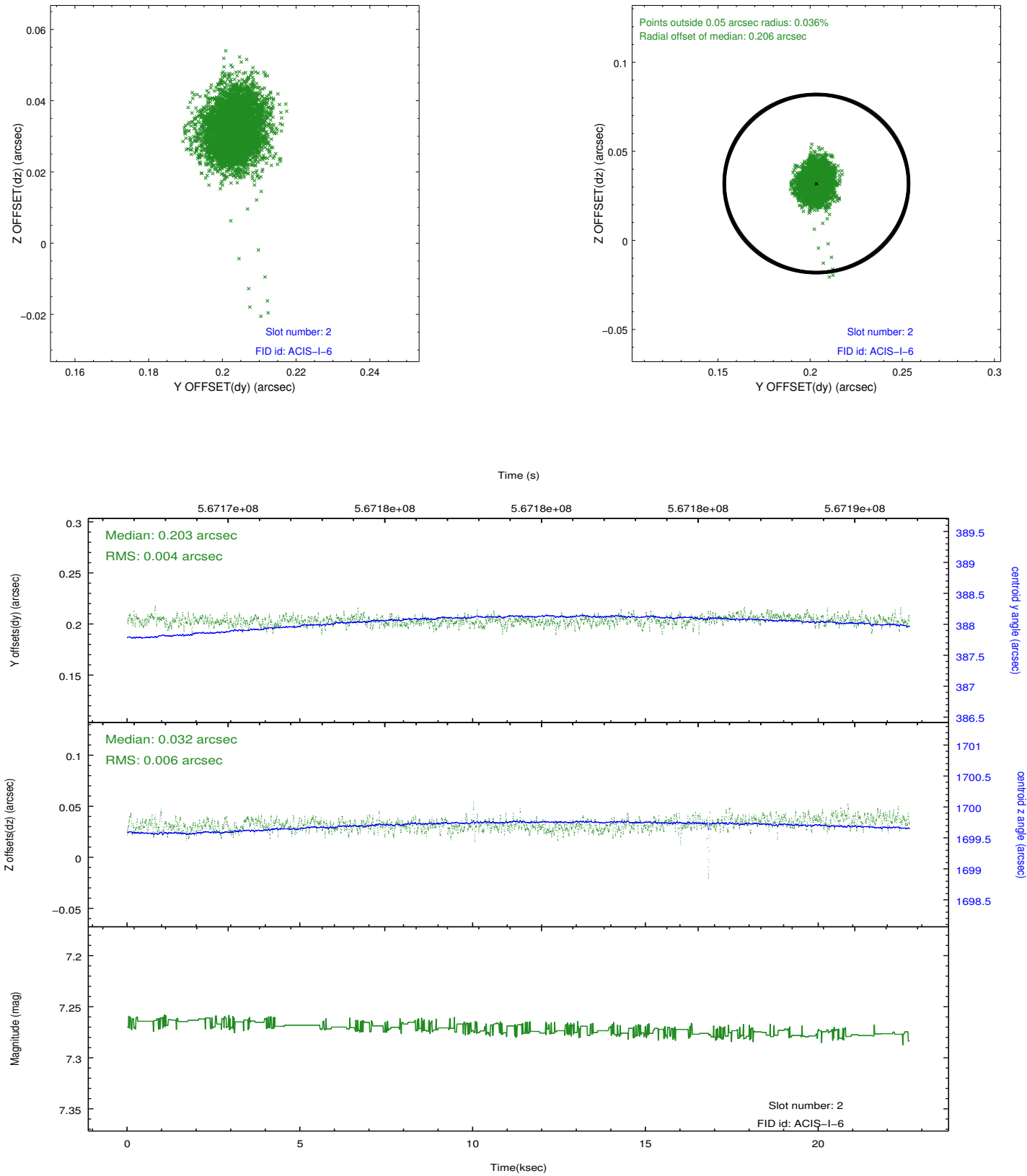
2.5.1 Slot 0



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)	2015.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.072000169873

A.2 Comments