

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18716 - L2 Version 1
Chandra X-Ray Center

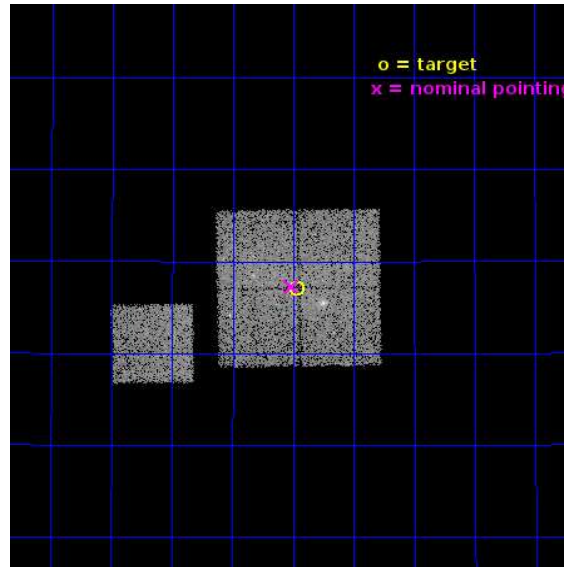
L2 Processing Date : Dec 24 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

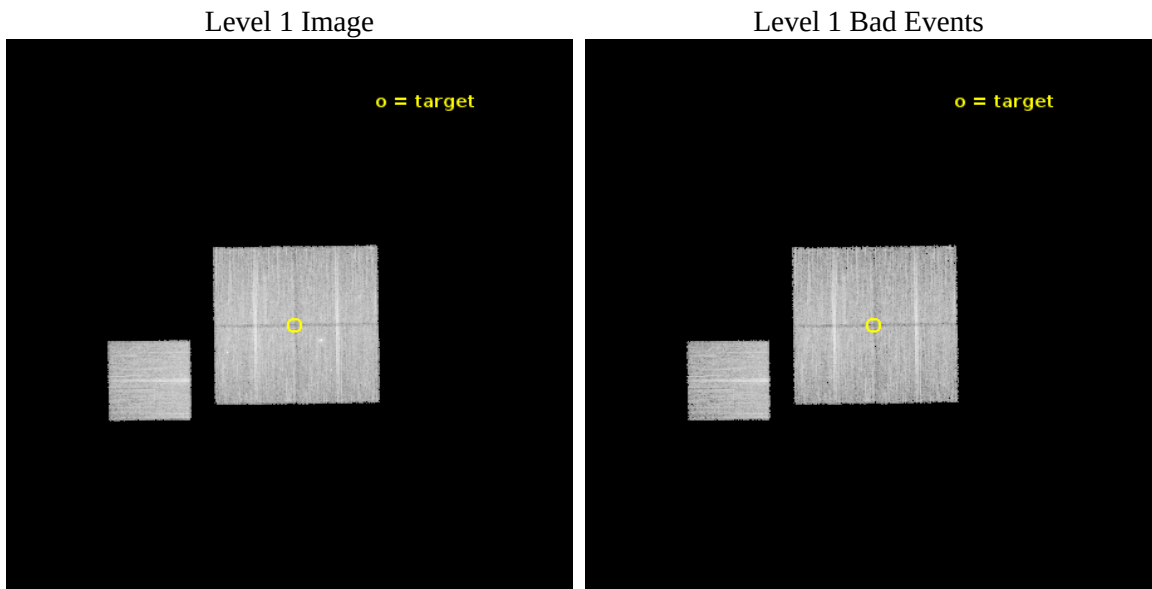
seq_num	801593	Sequence number
obs_id	18716	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.878589947545	Nominal RA [deg]
dec_nom	32.454500736534	Nominal Dec [deg]
roll_nom	269.20227320825	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15050.500115871	Sum of GTIs [s]
livetime	14853.854251841	Livetime [s]
ontime0	15050.500115871	Sum of GTIs [s]
ontime1	15050.500115871	Sum of GTIs [s]
ontime2	15050.500115871	Sum of GTIs [s]
ontime3	15050.500115871	Sum of GTIs [s]
ontime6	15050.500115871	Sum of GTIs [s]
l2events	45553	Number of level 2 events



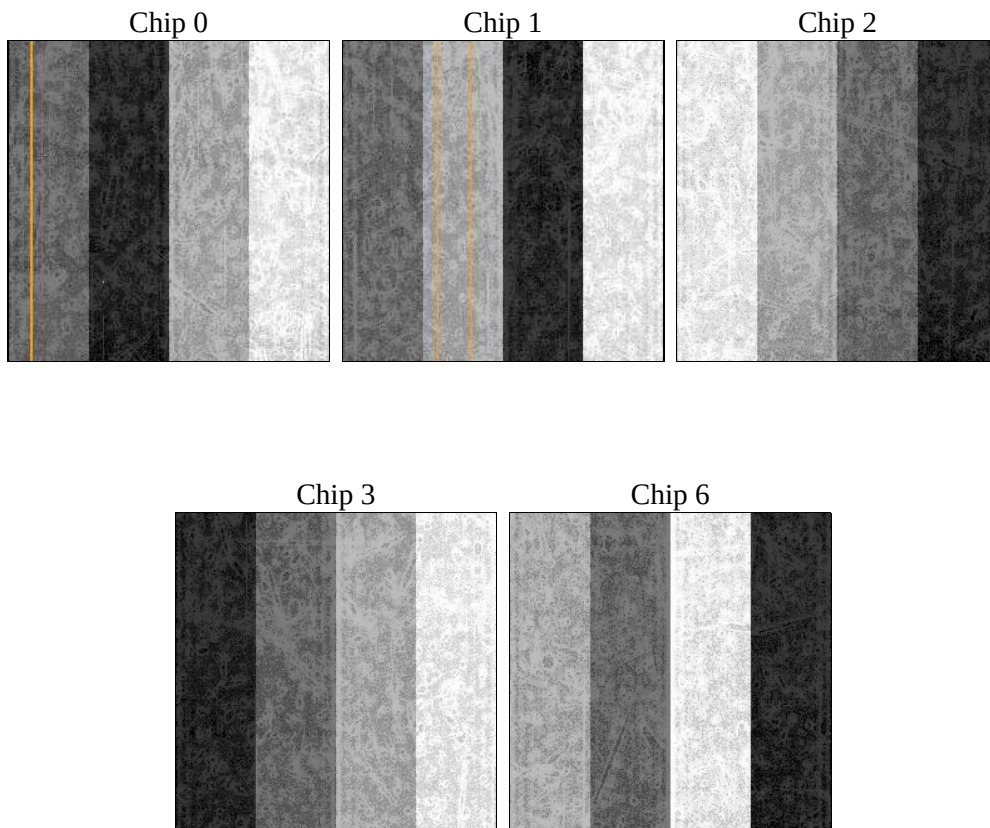
2 OBI

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	10.4.3	Processing system revision	ontime	15050.500115871	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	15050.500115871	Sum of GTIs [s]
date	2015-12-25T03:05:22	Date and time of file creation	ontime1	15050.500115871	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15050.500115871	Sum of GTIs [s]
			ontime3	15050.500115871	Sum of GTIs [s]
			ontime6	15050.500115871	Sum of GTIs [s]
			l1events	433906	Number of level 1 events

2.1.4 Events

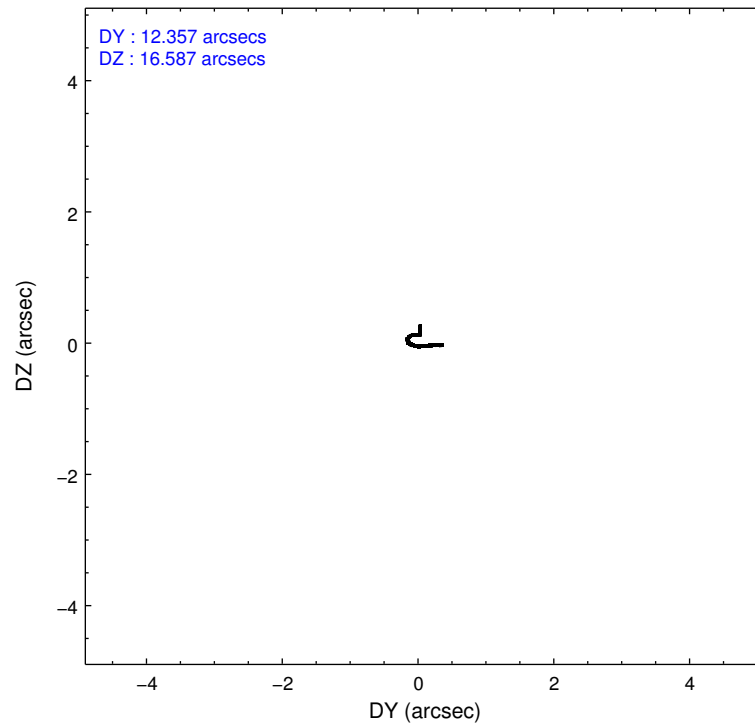
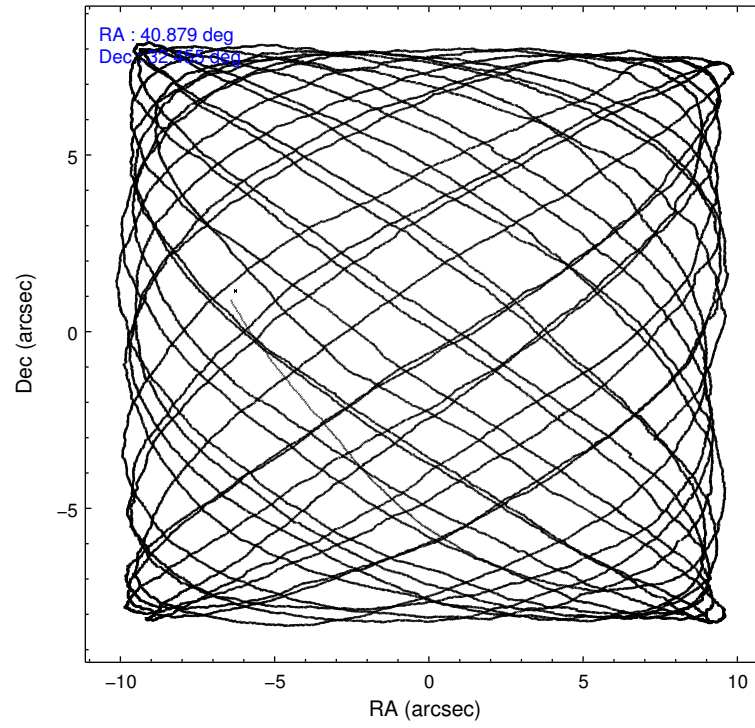
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	82020	83492	90275	89616	88503
rejected events	70807	72097	80033	79219	78603
rejected %	86%	86%	88%	88%	88%

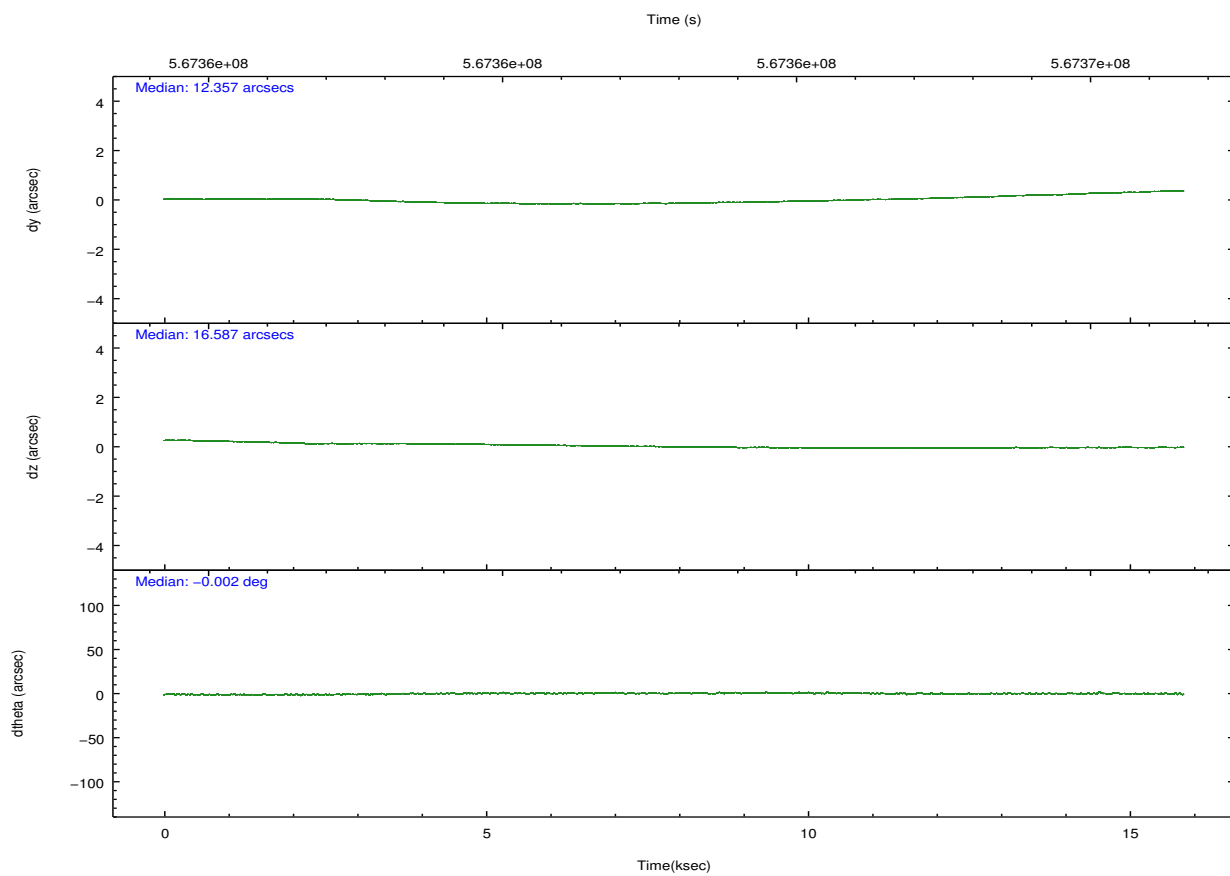
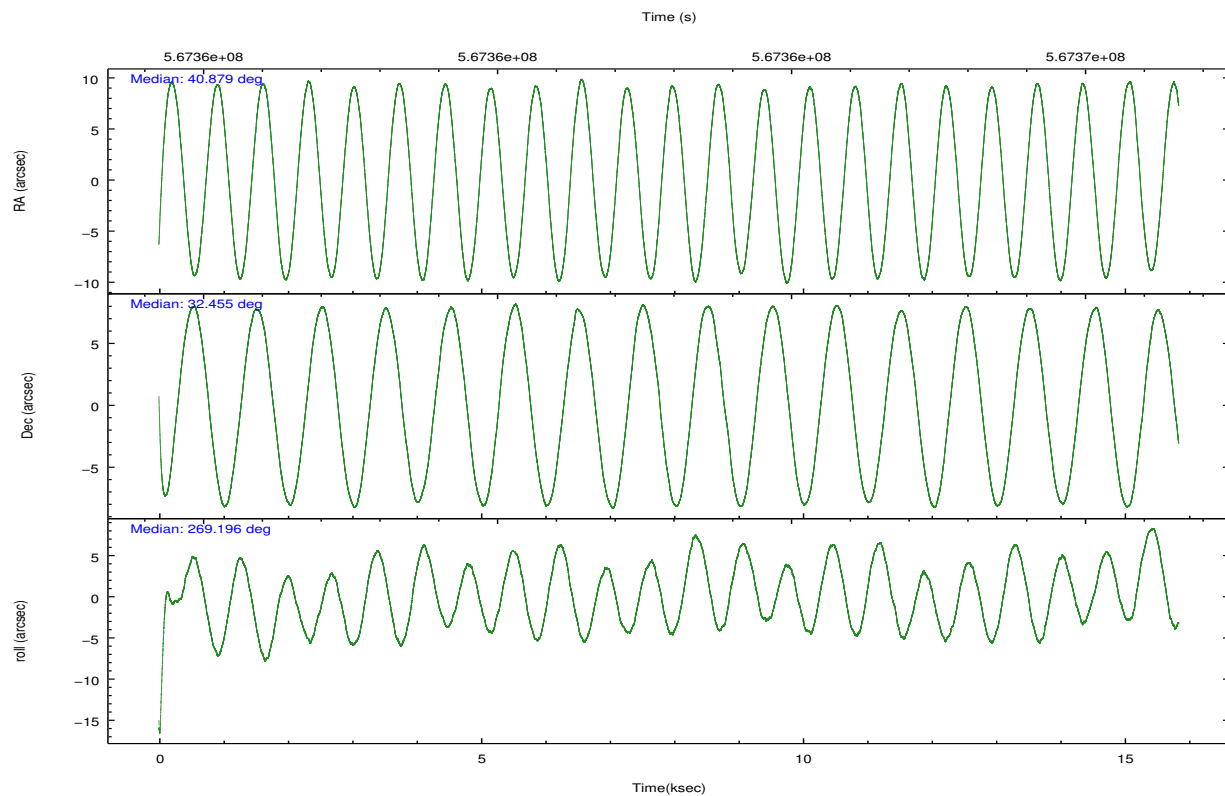
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4643	4200	4009	4123	3231
	5%	5%	4%	4%	3%
grade 1 events	61	49	54	51	36
	0%	0%	0%	0%	0%
grade 2 events	2423	2580	2318	2157	2237
	2%	3%	2%	2%	2%
grade 3 events	1073	1053	964	1091	982
	1%	1%	1%	1%	1%
grade 4 events	925	1053	1004	1057	1027
	1%	1%	1%	1%	1%
grade 5 events	3903	4028	3822	4326	4012
	4%	4%	4%	4%	4%
grade 6 events	2152	2513	1950	1977	2428
	2%	3%	2%	2%	2%
grade 7 events	66840	68016	76154	74834	74550
	81%	81%	84%	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	40.8785899475447	CCD I2 on	Y	Y
[deg] Pointing Dec	32.478525	32.45450073653429	CCD I3 on	Y	Y
[deg] Pointing Roll	269.002257	269.2022732082492	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)	567355836.184000	567354398.74108	CCD S5 on	N	N
Observation start date	2015-12-24T14:49:28	2015-12-24T14:26:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	567370836.184000	567371207.7170399	On-chip summing requested	N	N
Observation end date	2015-12-24T18:59:28	2015-12-24T19:06:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



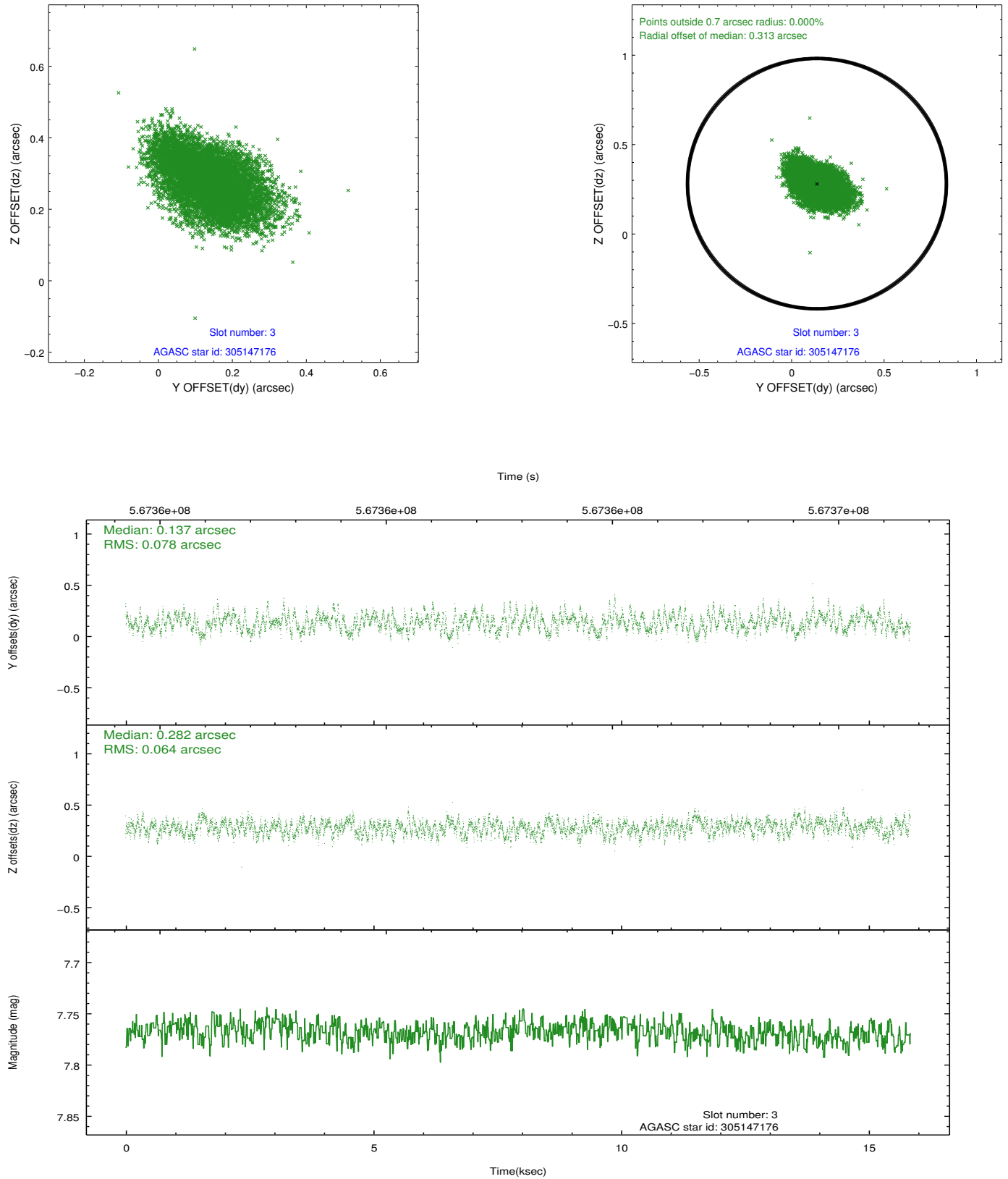


Slot Statistics

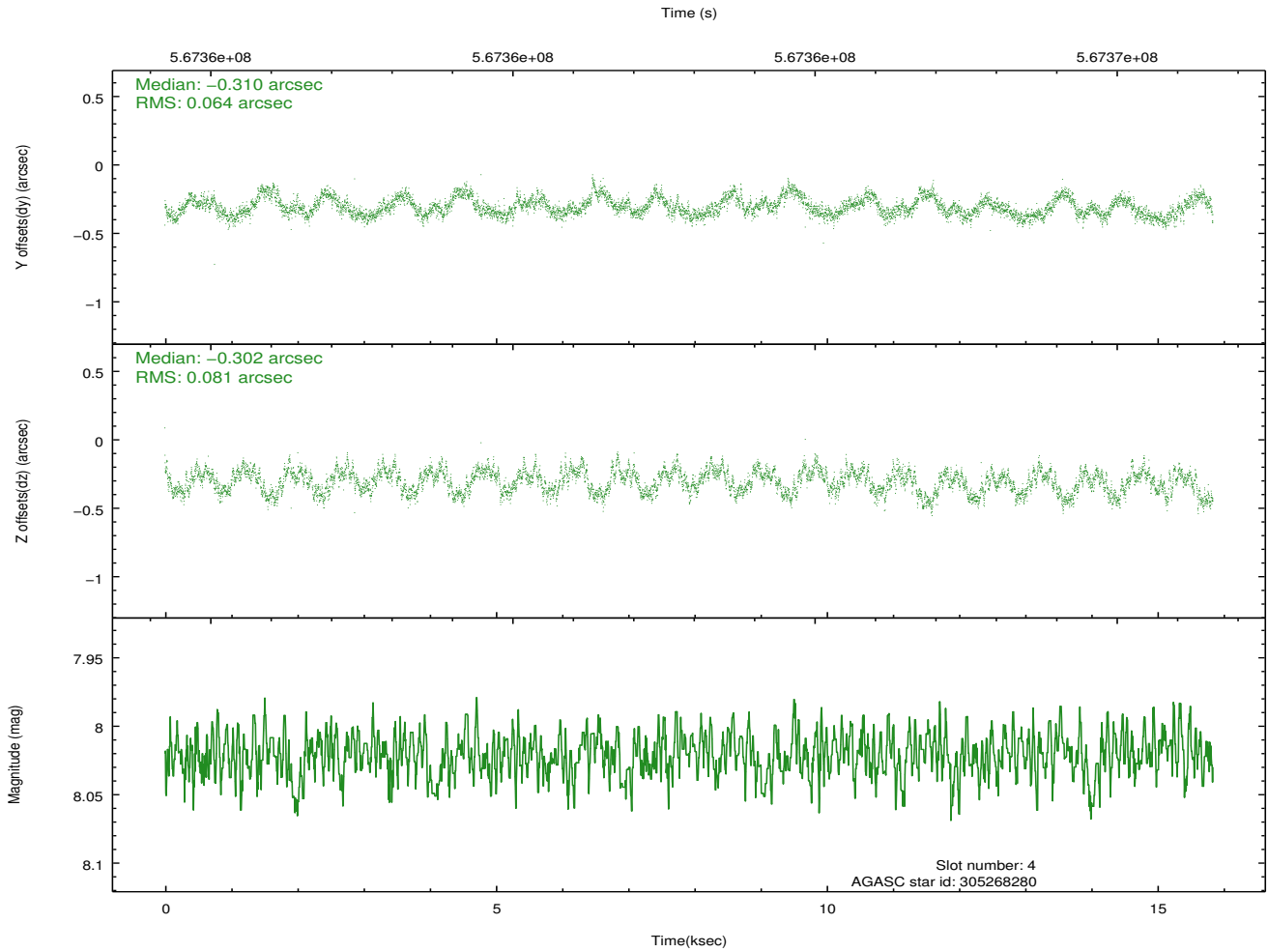
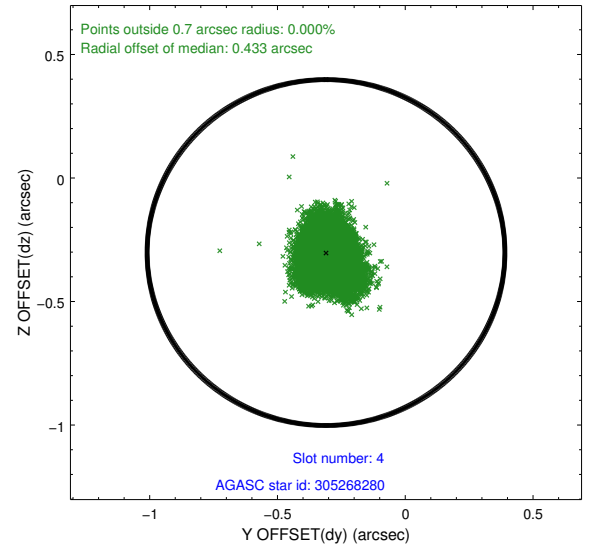
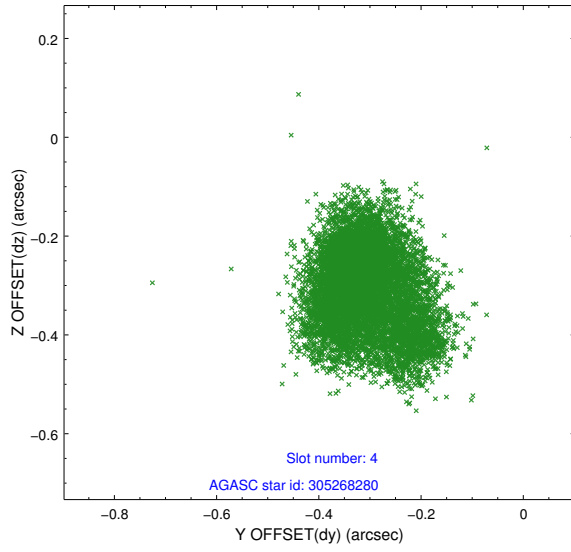
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	3864	0.088	-0.077	0.009	0.015	0.000000	0.000000	927.26	-840.34
1	FID		ACIS-I-5	7.26	3864	-0.292	0.060	0.008	0.013	0.000000	0.000000	-1821.09	1057.12
2	FID		ACIS-I-6	7.25	3864	0.114	0.089	0.009	0.014	0.000000	0.000000	392.50	1701.99
3	GUIDE	used	305147176	7.77	7725	0.137	0.282	0.107	0.175	40.109077	32.320442	601.75	-2281.48
4	GUIDE	used	305268280	8.02	7727	-0.310	-0.302	0.111	0.177	41.584929	31.994907	1695.32	2235.12
5	GUIDE	used	305275512	7.71	7728	-0.131	0.169	0.078	0.124	40.696155	32.869449	-1397.84	-526.81
6	GUIDE	used	305278880	7.19	7729	0.349	-0.190	0.069	0.112	41.005714	32.370308	382.25	442.10
7	GUIDE	used	305271112	7.73	7726	-0.055	0.047	0.084	0.133	40.672539	32.901478	-1511.67	-599.38

2.4 Star Slots

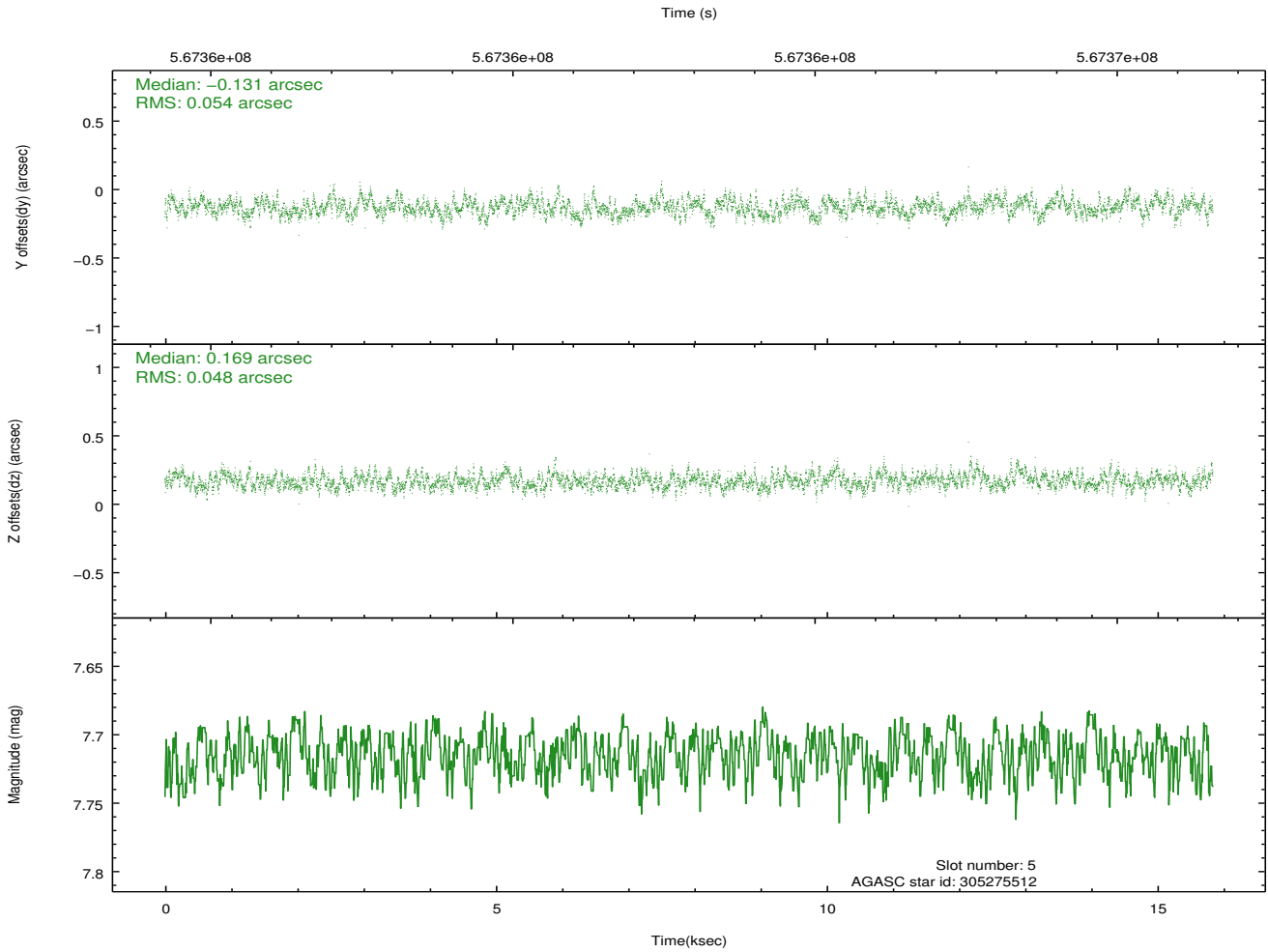
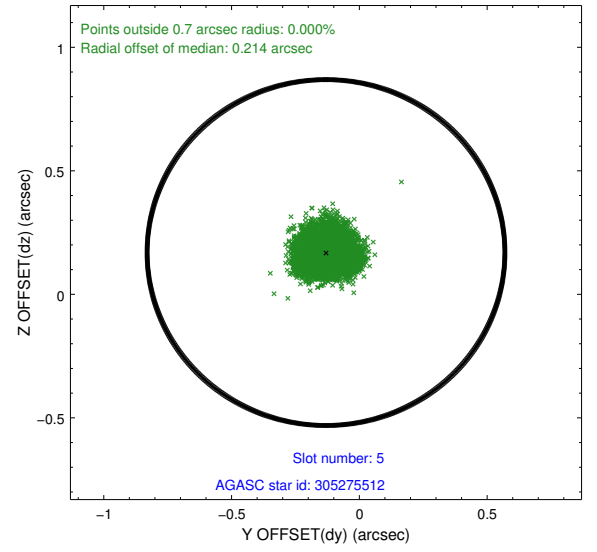
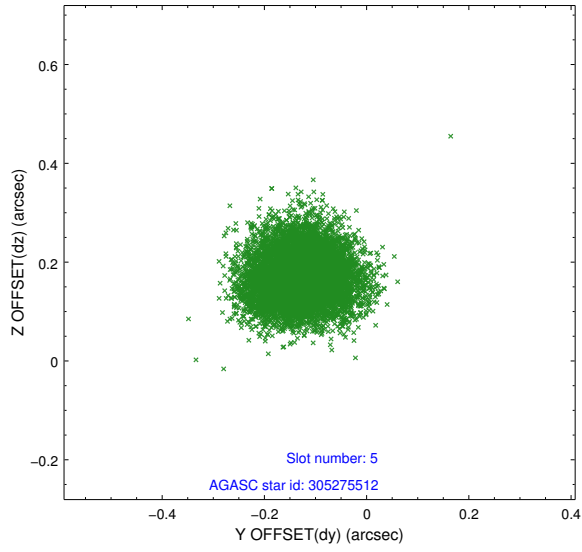
2.4.1 Slot 3



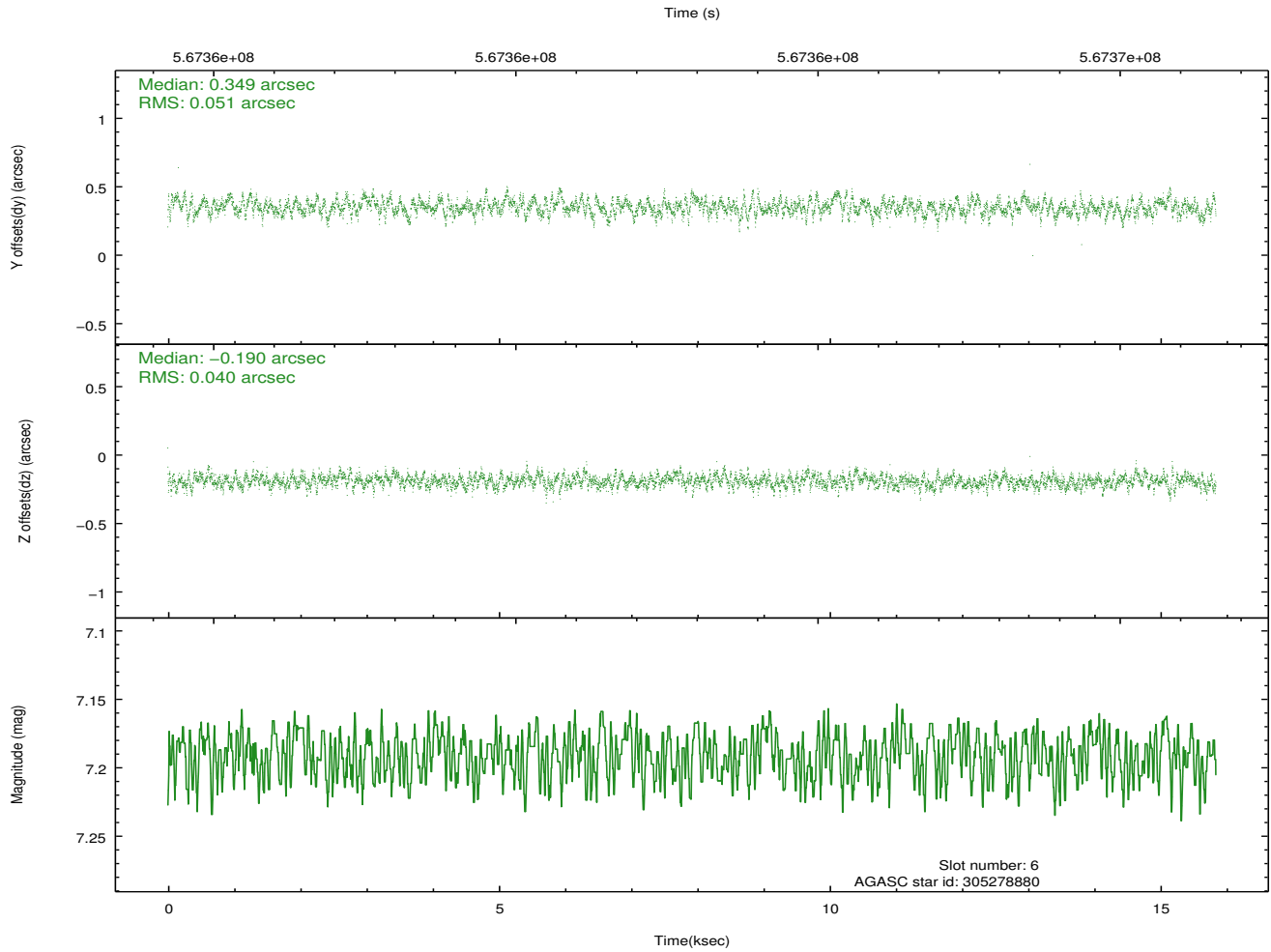
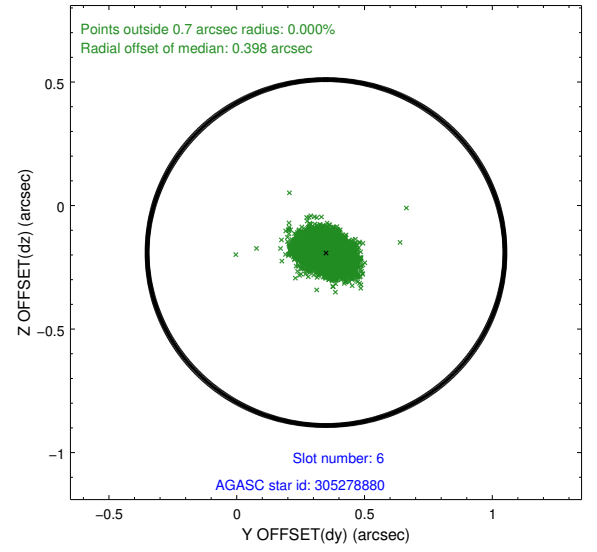
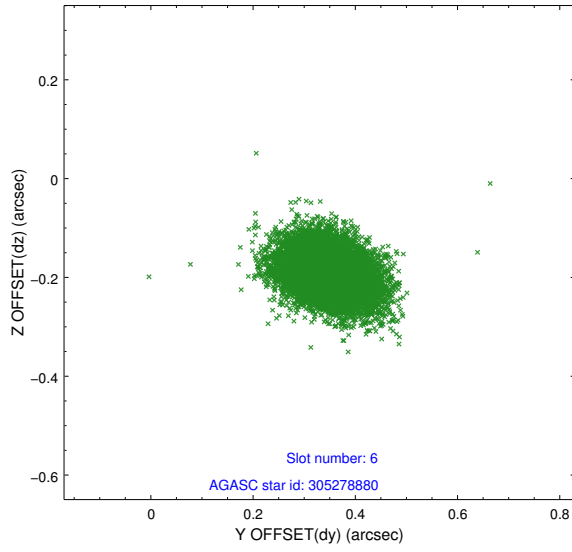
2.4.2 Slot 4



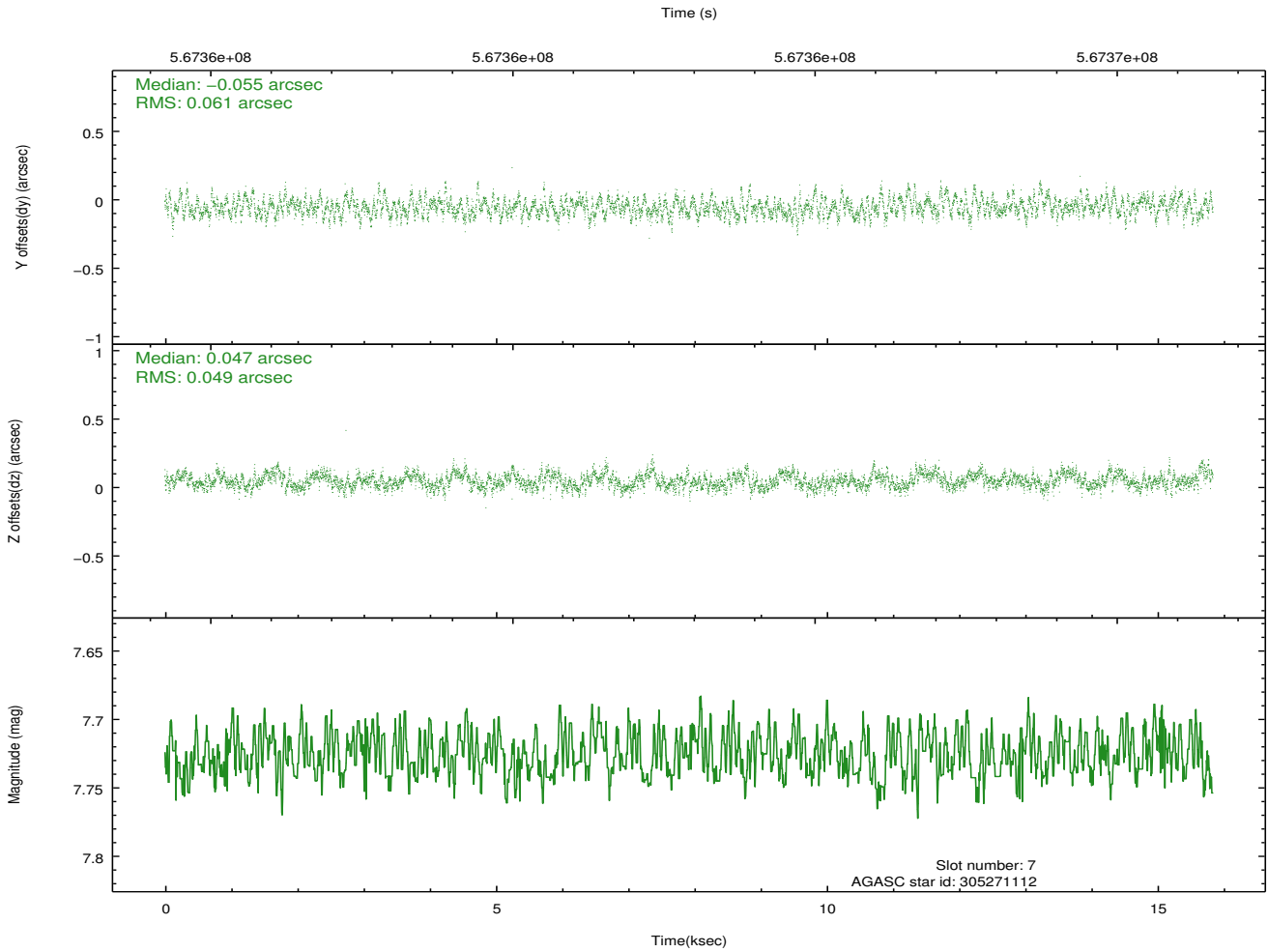
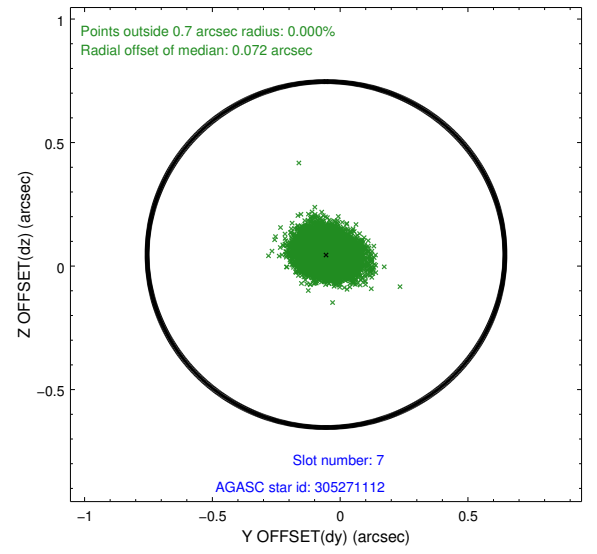
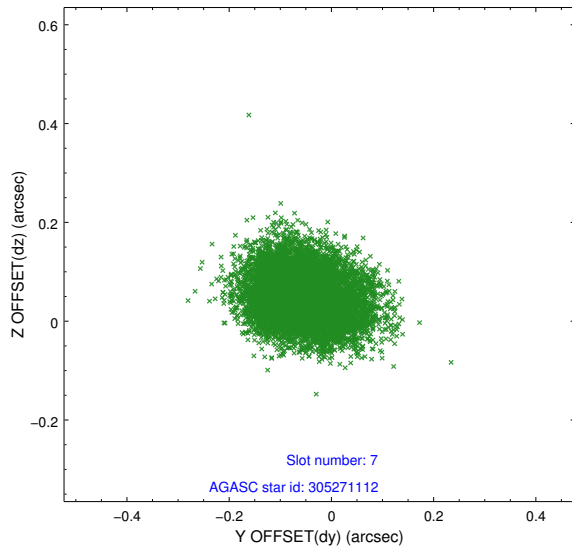
2.4.3 Slot 5



2.4.4 Slot 6

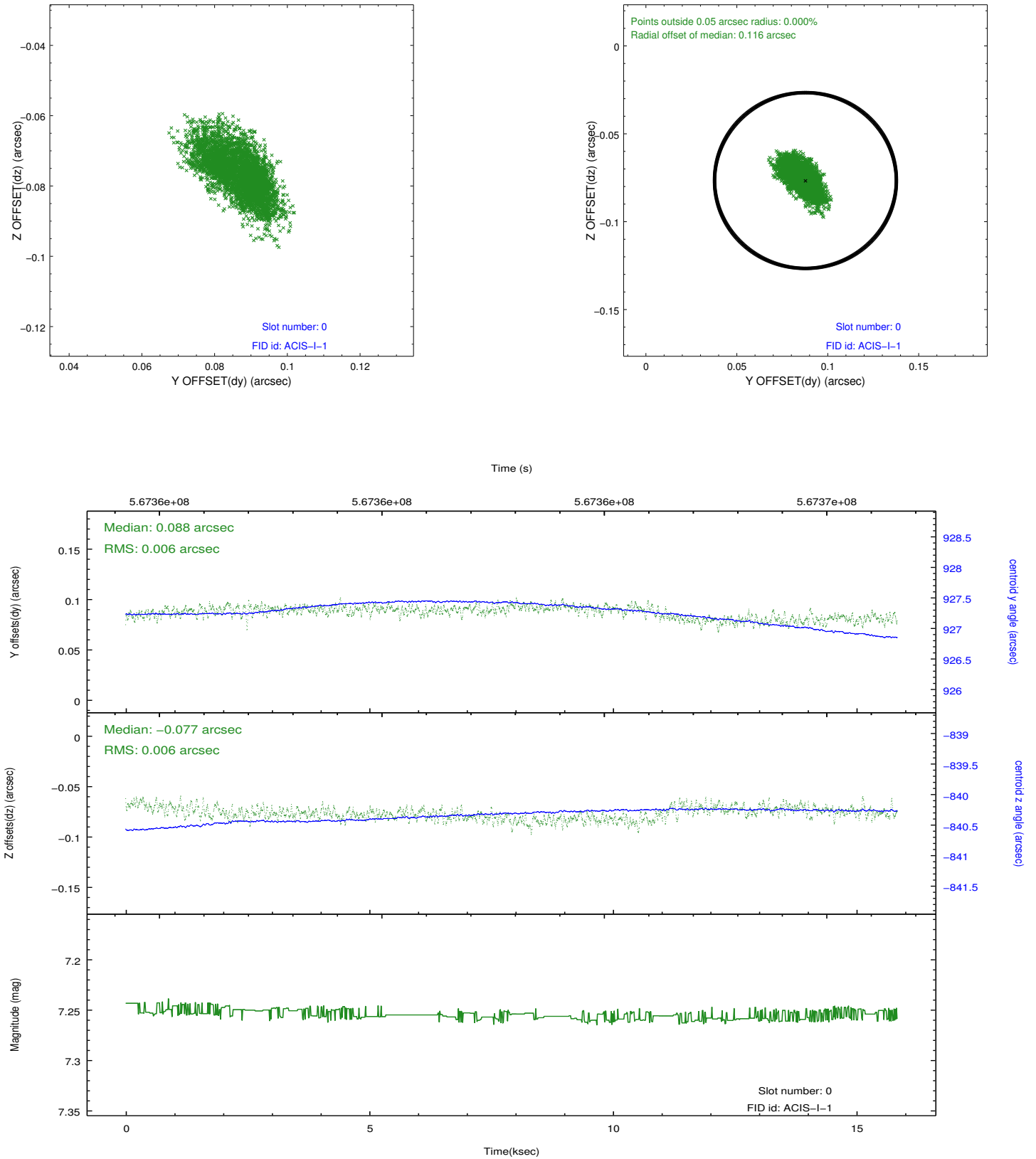


2.4.5 Slot 7

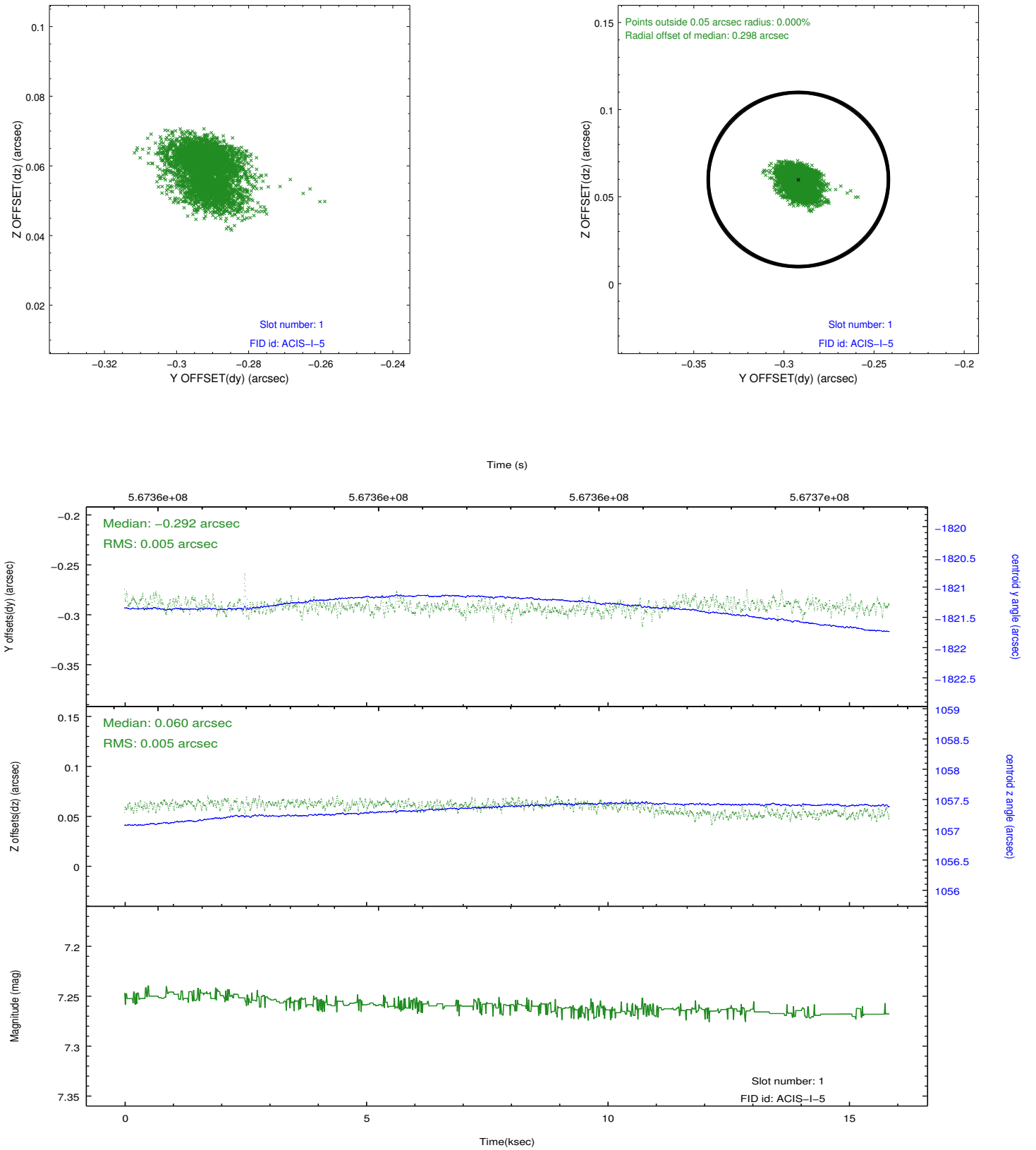


2.5 FID Slots

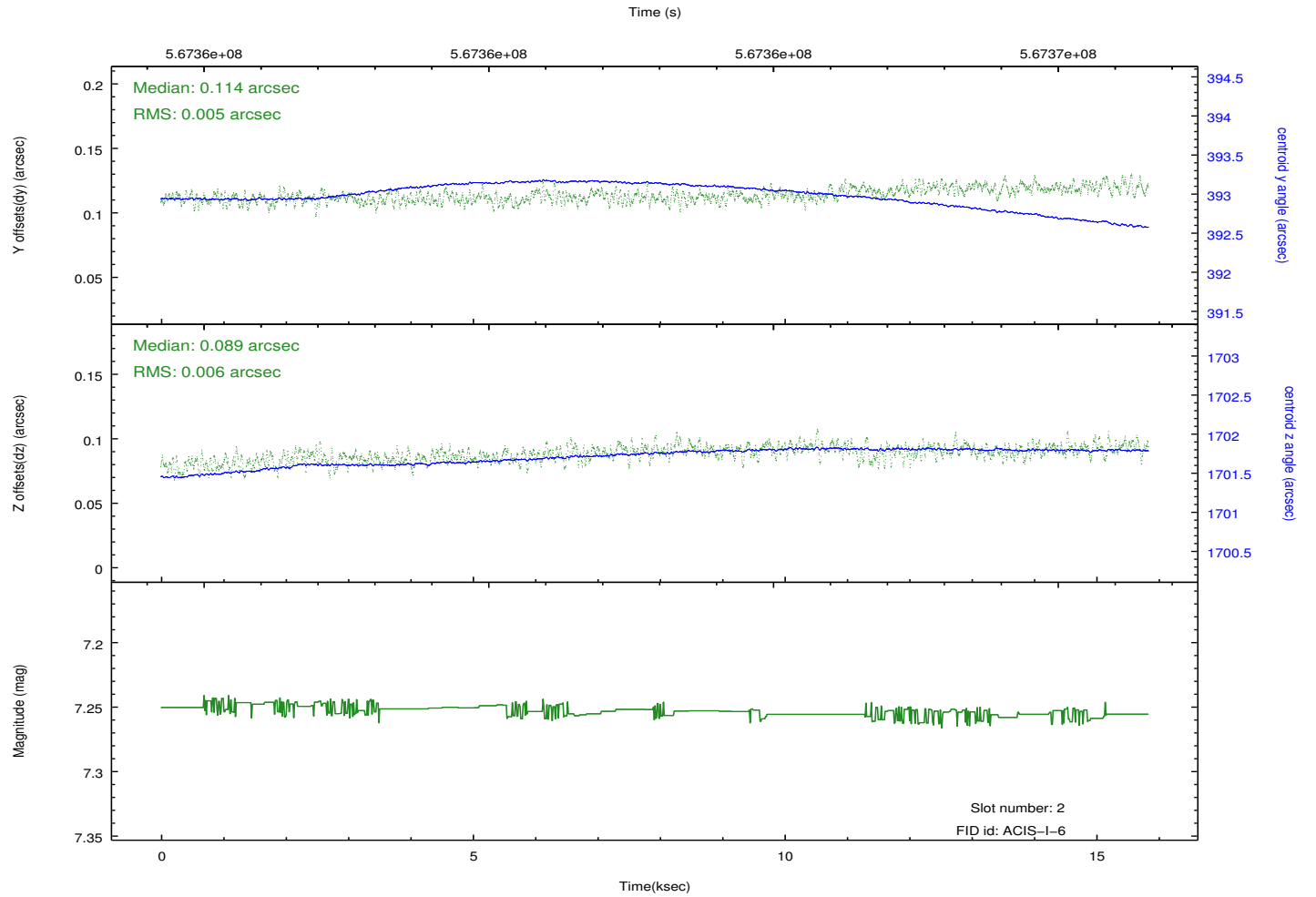
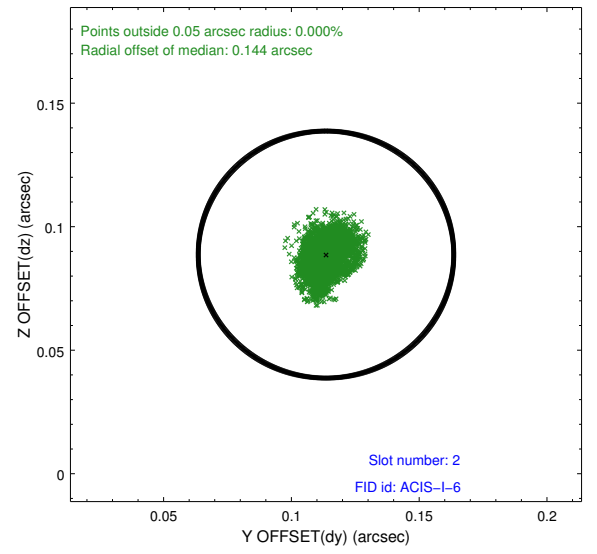
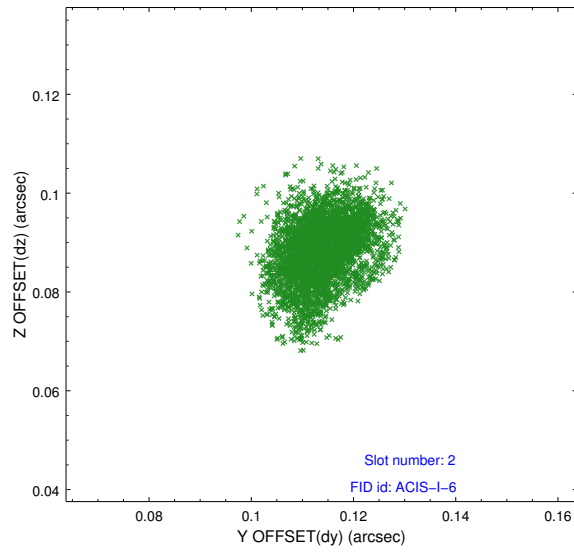
2.5.1 Slot 0



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)	2015.12.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.050500115871

A.2 Comments