

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17427 - L2 Version 1
Chandra X-Ray Center

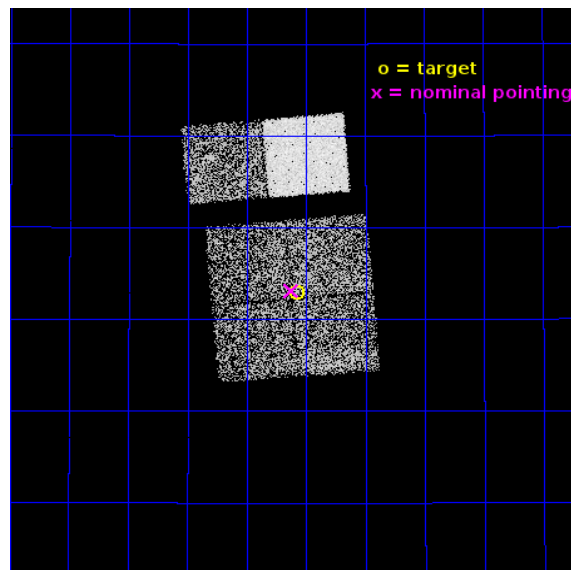
L2 Processing Date : Nov 2 2015

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1 Front

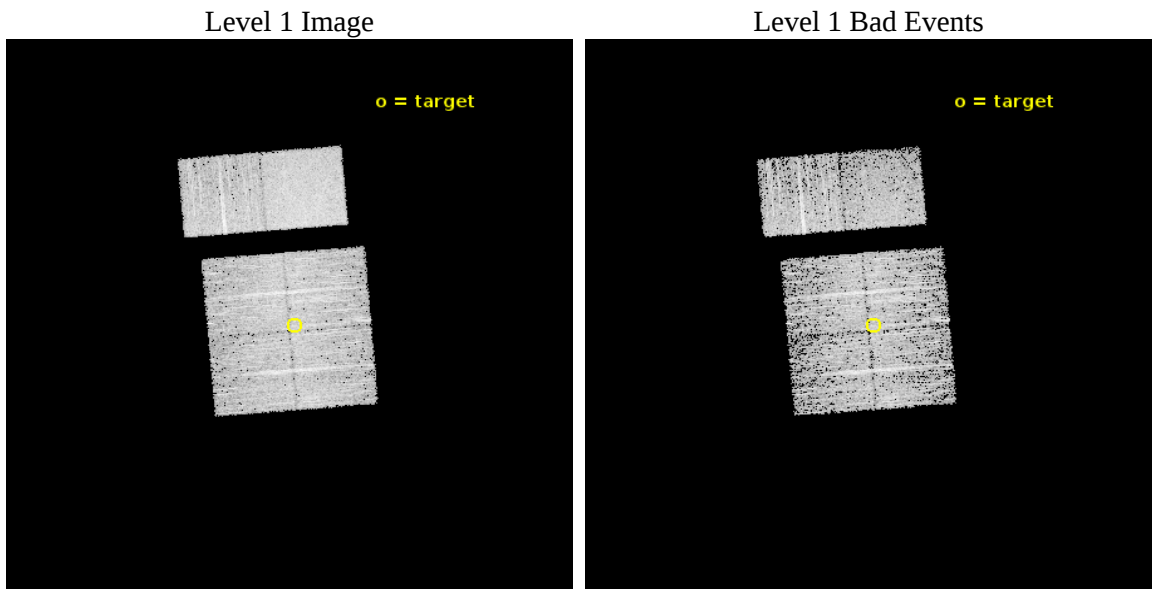
seq_num	901174	Sequence number
obs_id	17427	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.519583	Observer's specified target RA [deg]
dec_targ	34.216111	Observer's specified target Dec [deg]
ra_nom	217.53146478297	Nominal RA [deg]
dec_nom	34.218552745994	Nominal Dec [deg]
roll_nom	355.20198970173	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6005.7261614799	Sum of GTIs [s]
livetime	5929.6780406092	Livetime [s]
ontime0	6005.6030415297	Sum of GTIs [s]
ontime1	6005.6440814734	Sum of GTIs [s]
ontime2	6002.4441212416	Sum of GTIs [s]
ontime3	6005.7261614799	Sum of GTIs [s]
ontime6	6005.8082414865	Sum of GTIs [s]
ontime7	6005.7672015429	Sum of GTIs [s]
l2events	34998	Number of level 2 events



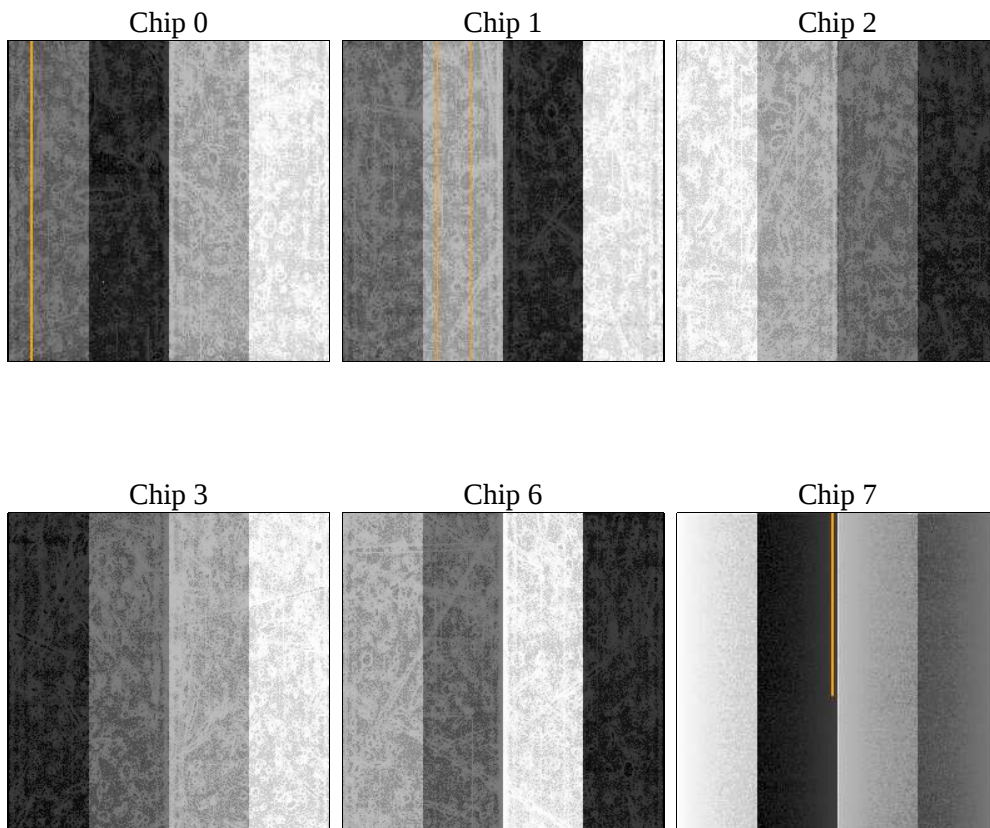
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6005.7261614799	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime0	6005.6030415297	Sum of GTIs [s]
date	2015-11-02T21:29:32	Date and time of file creation	ontime1	6005.6440814734	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6002.4441212416	Sum of GTIs [s]
			ontime3	6005.7261614799	Sum of GTIs [s]
			ontime6	6005.8082414865	Sum of GTIs [s]
			ontime7	6005.7672015429	Sum of GTIs [s]
			l1events	203809	Number of level 1 events

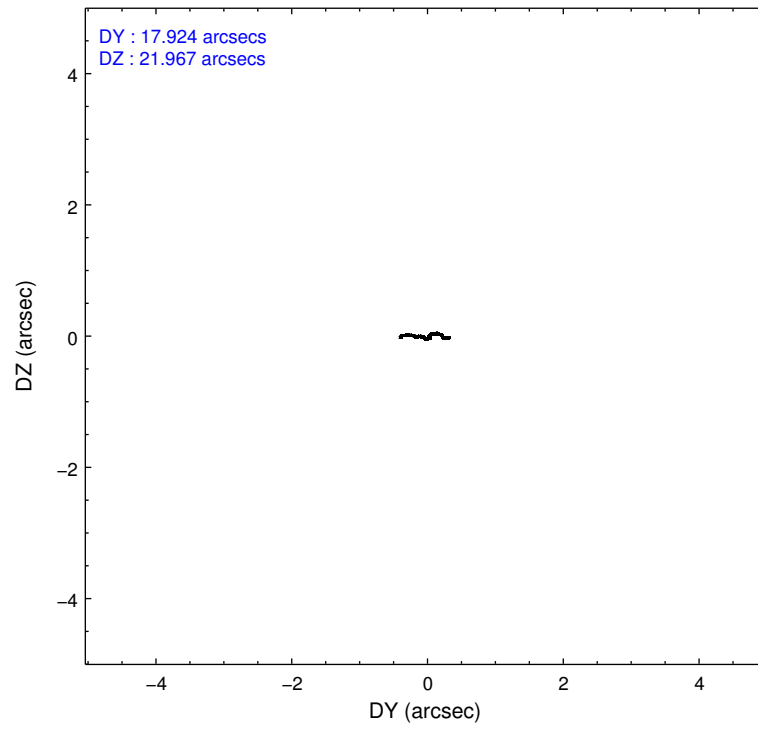
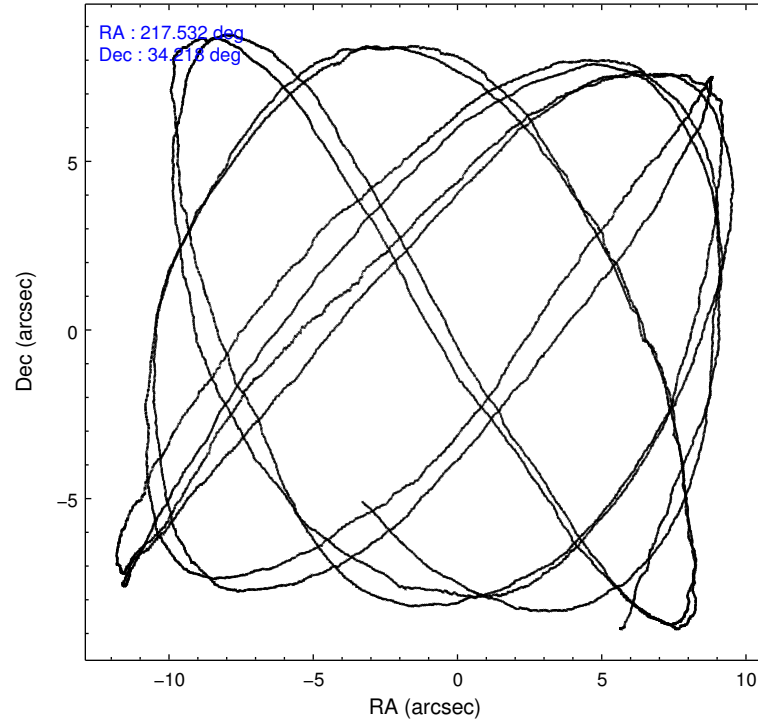
2.1.4 Events

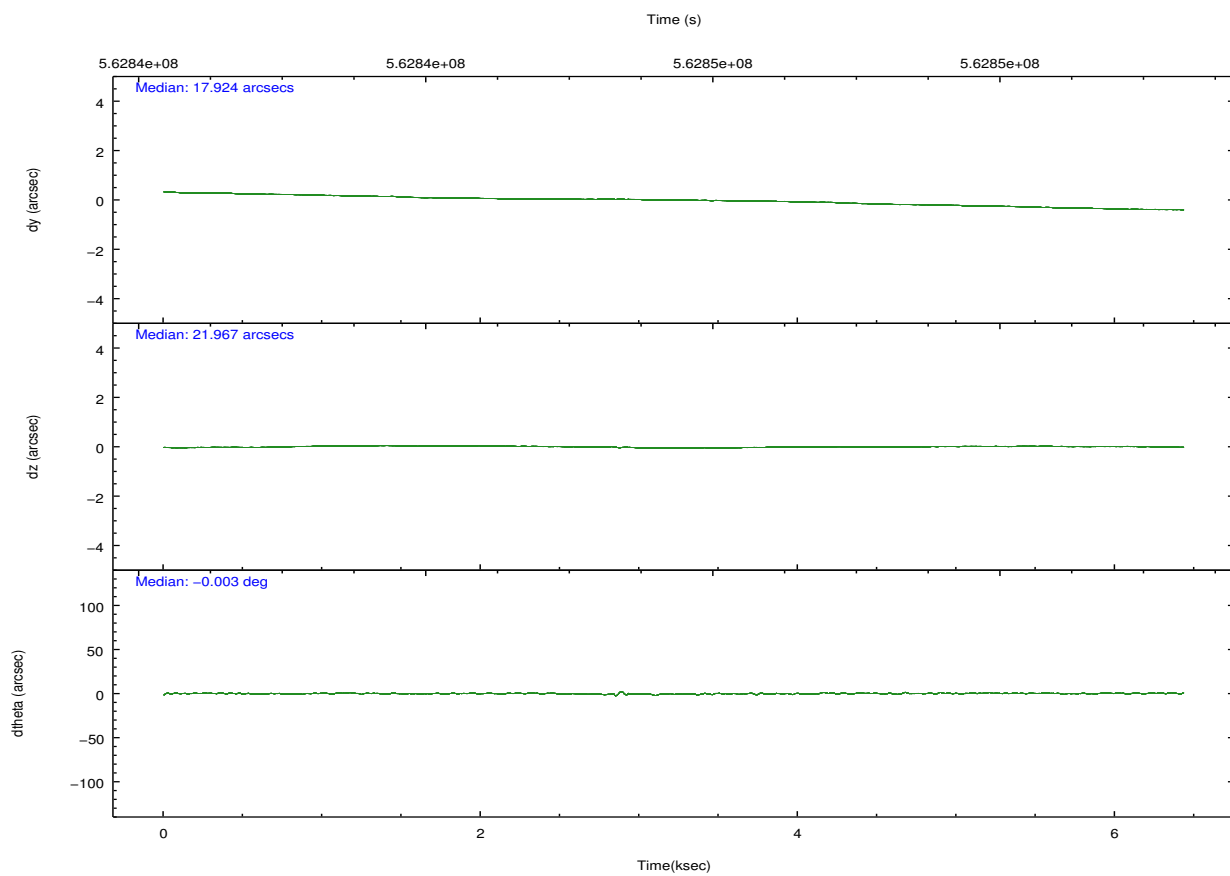
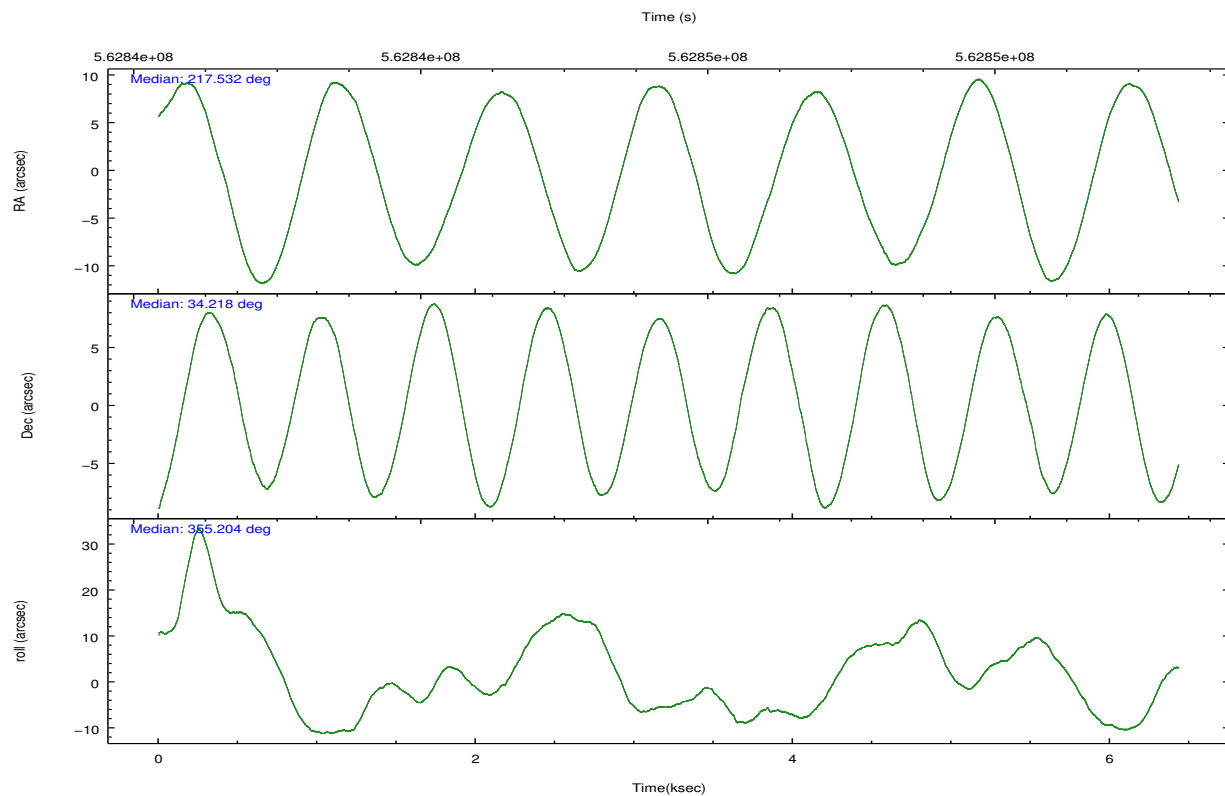
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	28604	31435	31682	34064	33891	44133	grade 0 events	1175	1437	1342	1329	1333	1684
rejected events	24988	27277	27869	30306	29935	24944		4%	4%	4%	3%	3%	3%
rejected %	87%	86%	87%	88%	88%	56%	grade 1 events	16	9	13	23	19	66
								0%	0%	0%	0%	0%	0%
							grade 2 events	978	989	965	882	930	3967
								3%	3%	3%	2%	2%	8%
							grade 3 events	338	399	378	425	376	1579
								1%	1%	1%	1%	1%	3%
							grade 4 events	349	429	373	382	395	1569
								1%	1%	1%	1%	1%	3%
							grade 5 events	1462	1492	1333	1648	1702	4395
								5%	4%	4%	4%	5%	9%
							grade 6 events	779	913	761	743	924	10409
								2%	2%	2%	2%	2%	23%
							grade 7 events	23507	25767	26517	28632	28212	20464
								82%	81%	83%	84%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	217.501195	217.5314647829677	CCD I2 on	Y	Y
[deg] Pointing Dec	34.206731	34.21855274599368	CCD I3 on	Y	Y
[deg] Pointing Roll	355.010341	355.2019897017288	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	562842684.184000	562842197.81043	CCD S5 on	N	N
Observation start date	2015-11-02T09:10:16	2015-11-02T09:03:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	562848934.184000	562850094.92337	On-chip summing requested	N	N
Observation end date	2015-11-02T10:54:26	2015-11-02T11:14:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



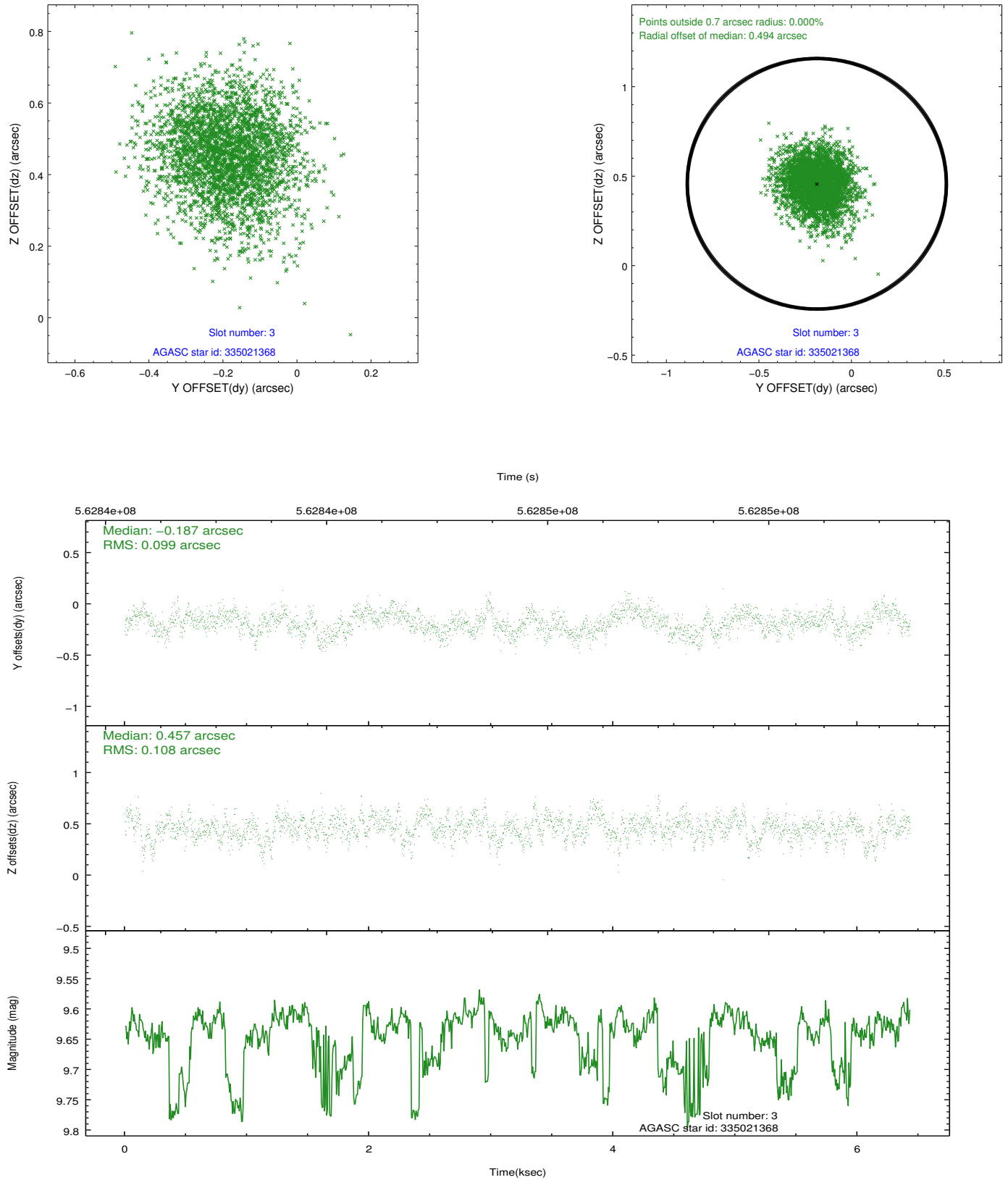


Slot Statistics

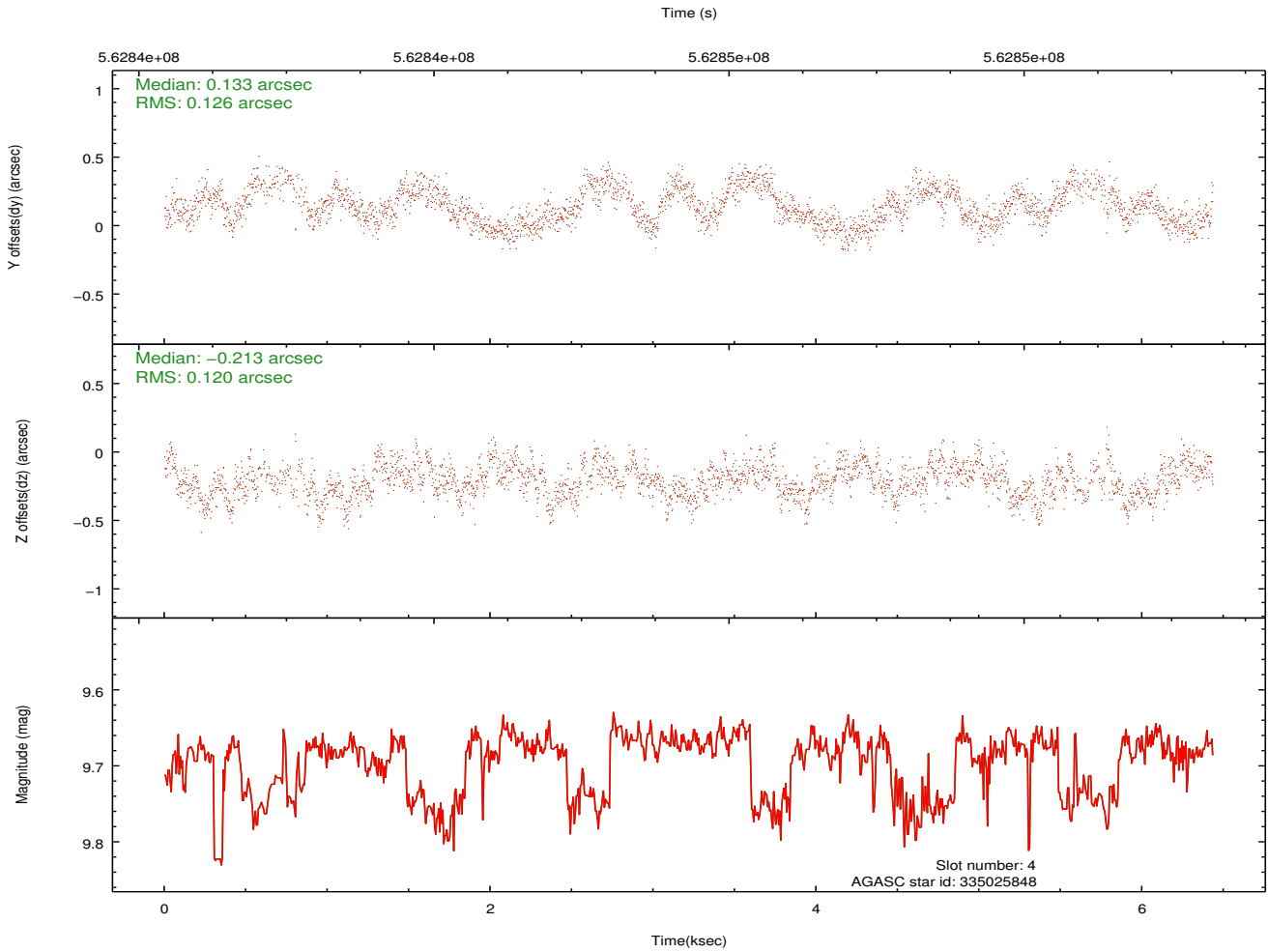
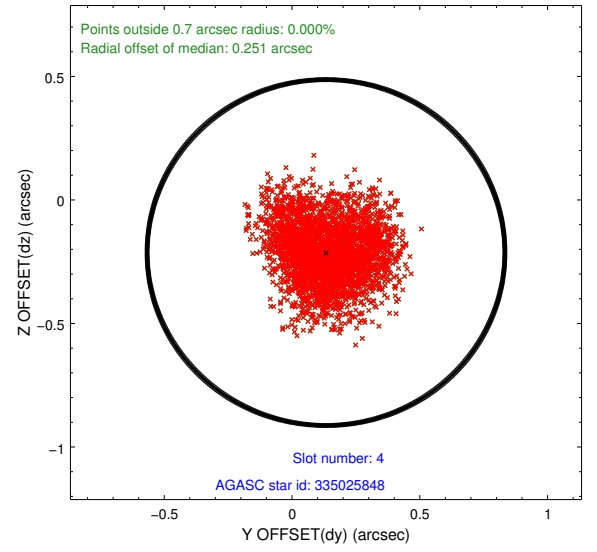
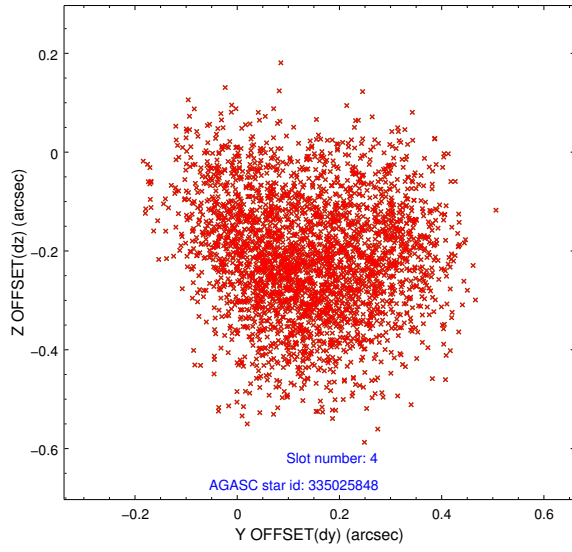
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	1569	0.102	-0.058	0.007	0.013	0.000000	0.000000	921.61	-845.75
1	FID		ACIS-I-5	7.24	1569	-0.360	0.061	0.007	0.012	0.000000	0.000000	-1826.50	1051.30
2	FID		ACIS-I-6	7.25	1569	0.166	0.068	0.008	0.014	0.000000	0.000000	386.17	1696.85
3	GUIDE	used	335021368	9.64	3133	-0.187	0.457	0.155	0.253	217.529643	33.934817	169.20	-967.17
4	BAD	used	335025848	9.69	2999	0.133	-0.213	0.191	0.292	217.530531	33.778292	221.35	-1528.64
5	GUIDE	used	335028336	9.45	3136	0.232	-0.085	0.160	0.269	217.189840	34.665629	-1062.22	1566.72
6	GUIDE	used	335028696	9.18	3139	-0.206	0.111	0.132	0.210	217.260519	33.844112	-604.40	-1361.36
7	GUIDE	used	335030384	8.80	3132	0.035	-0.282	0.111	0.179	216.806407	34.722197	-2210.53	1676.52

2.4 Star Slots

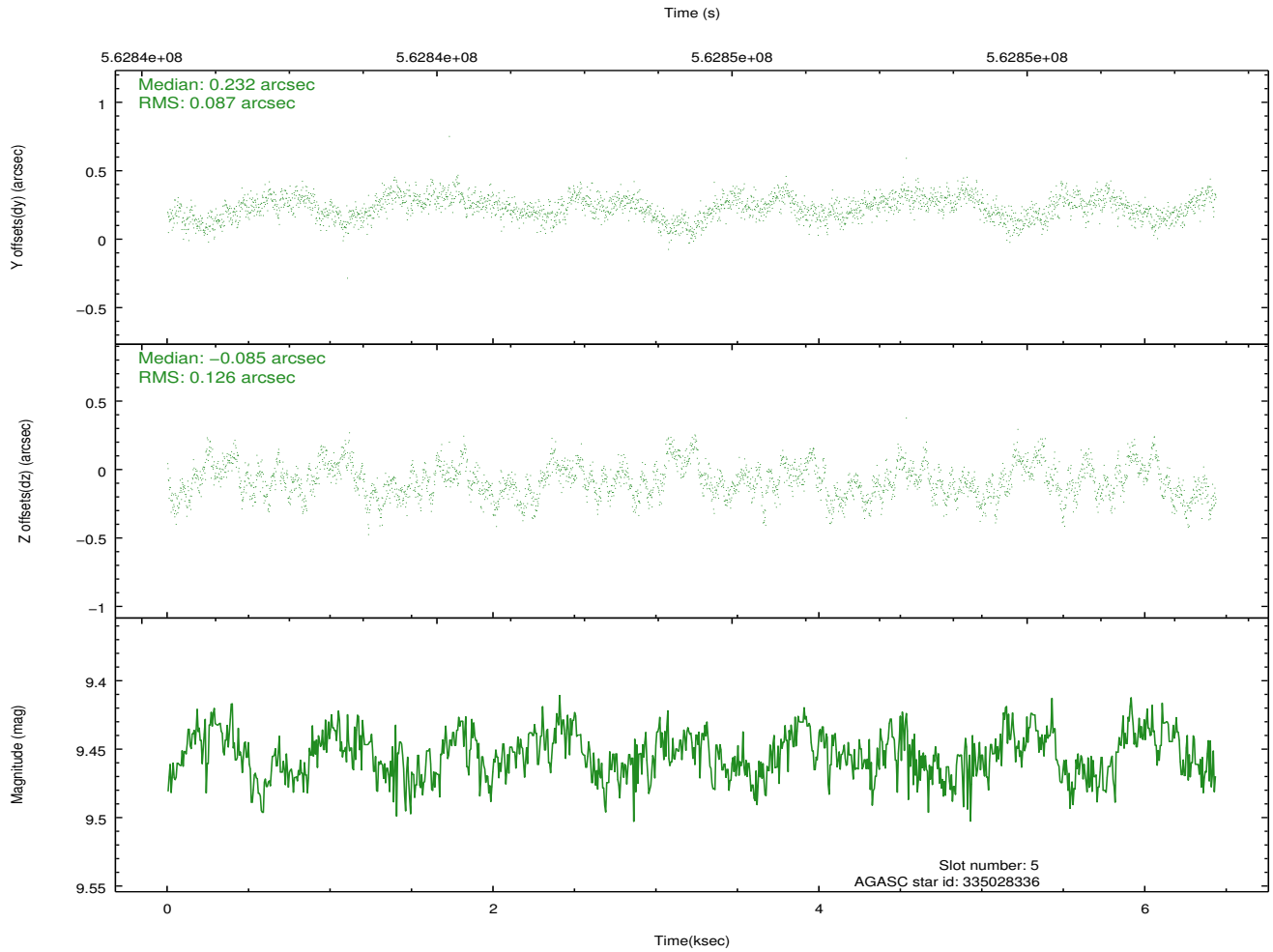
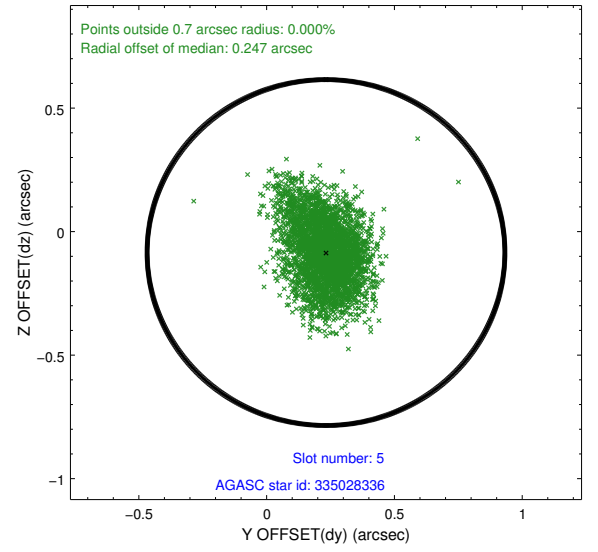
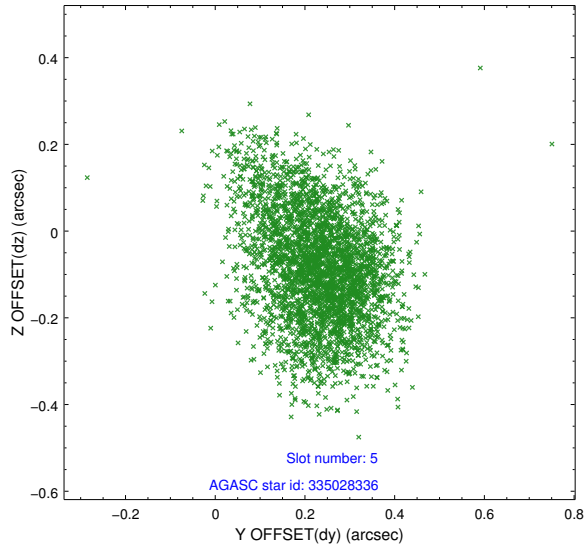
2.4.1 Slot 3



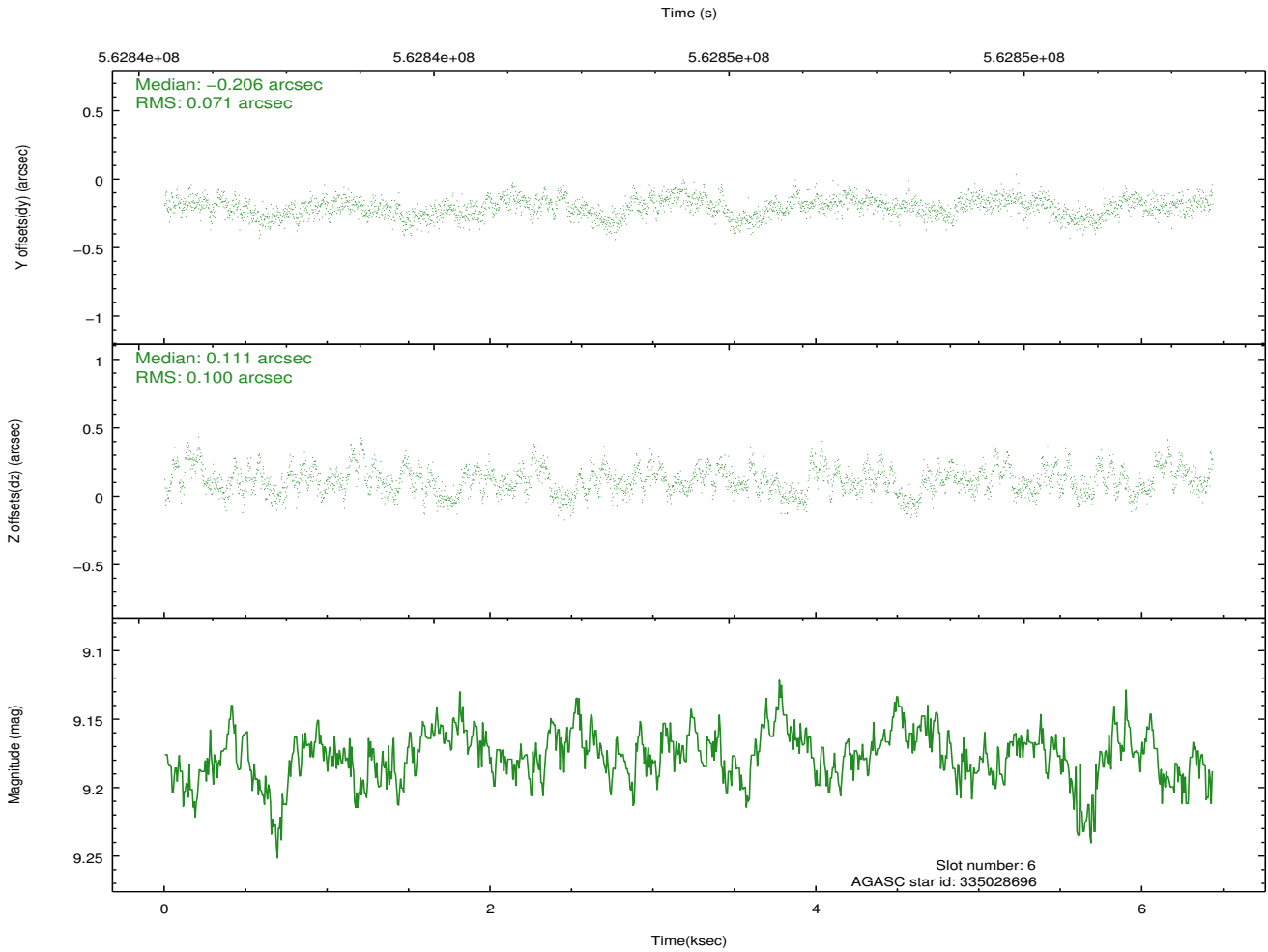
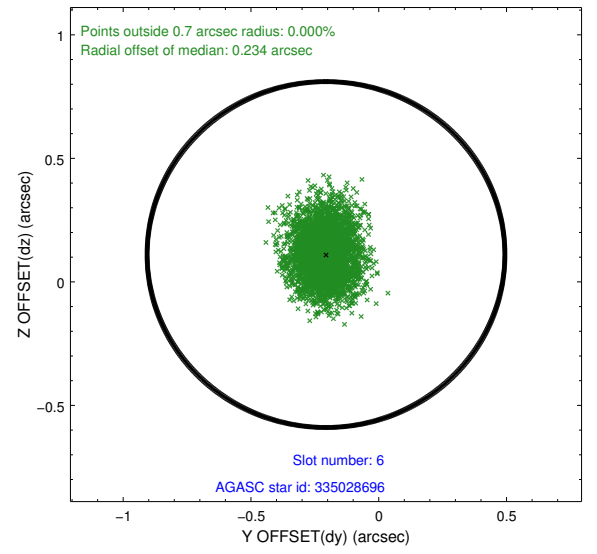
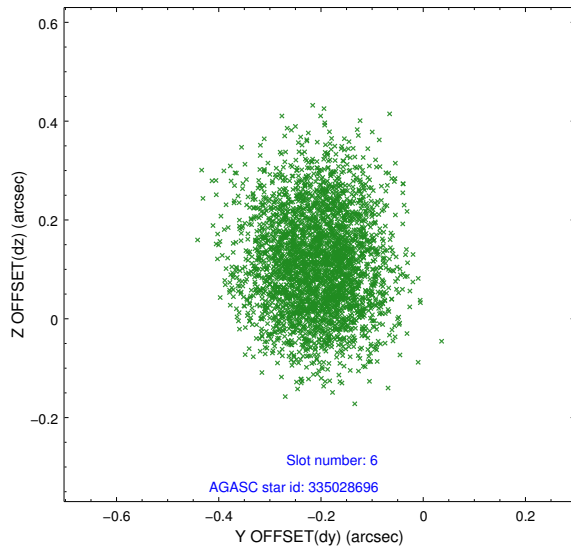
2.4.2 Slot 4



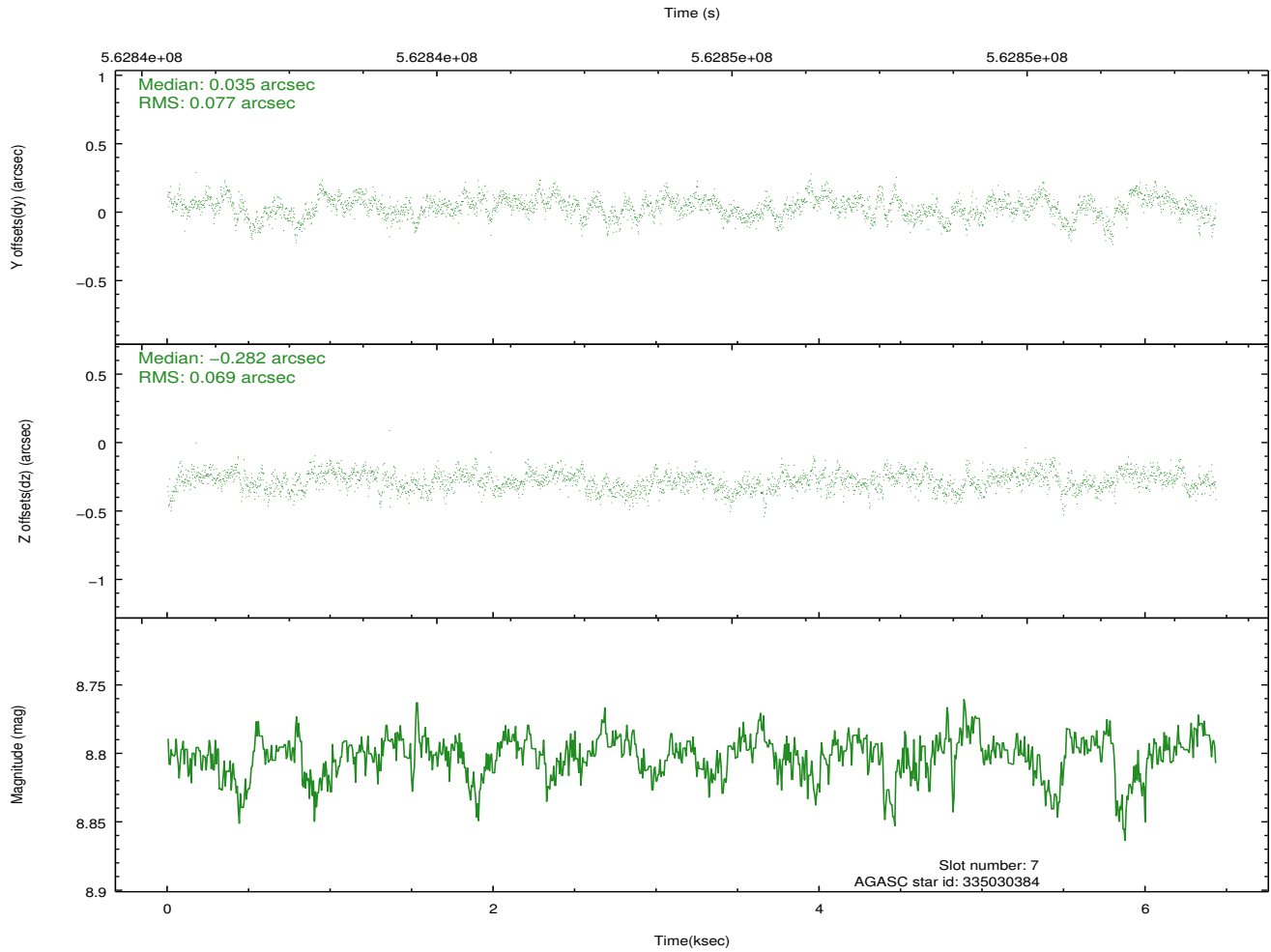
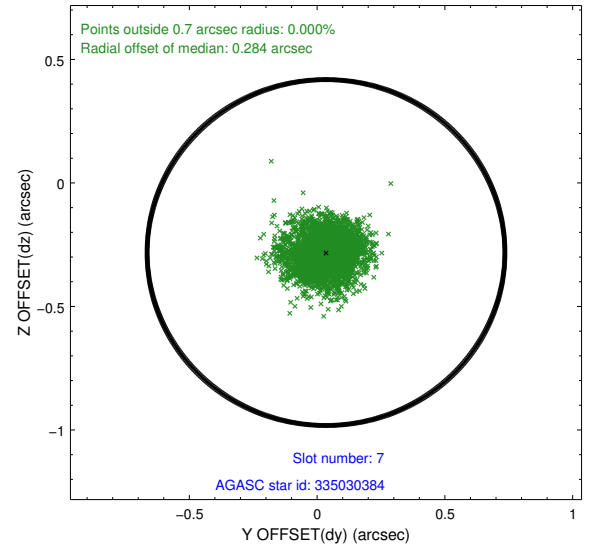
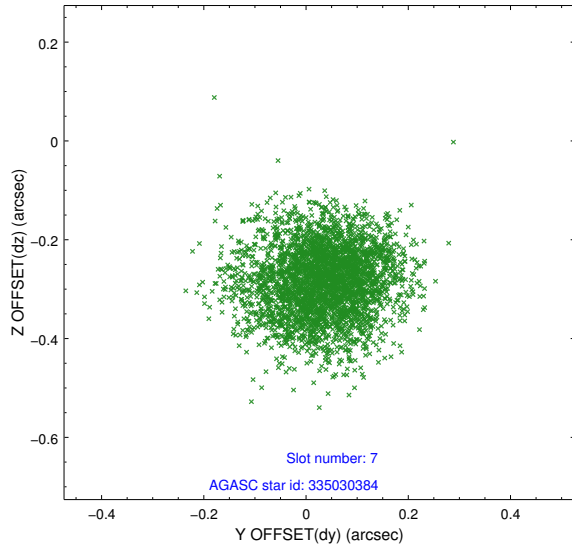
2.4.3 Slot 5



2.4.4 Slot 6

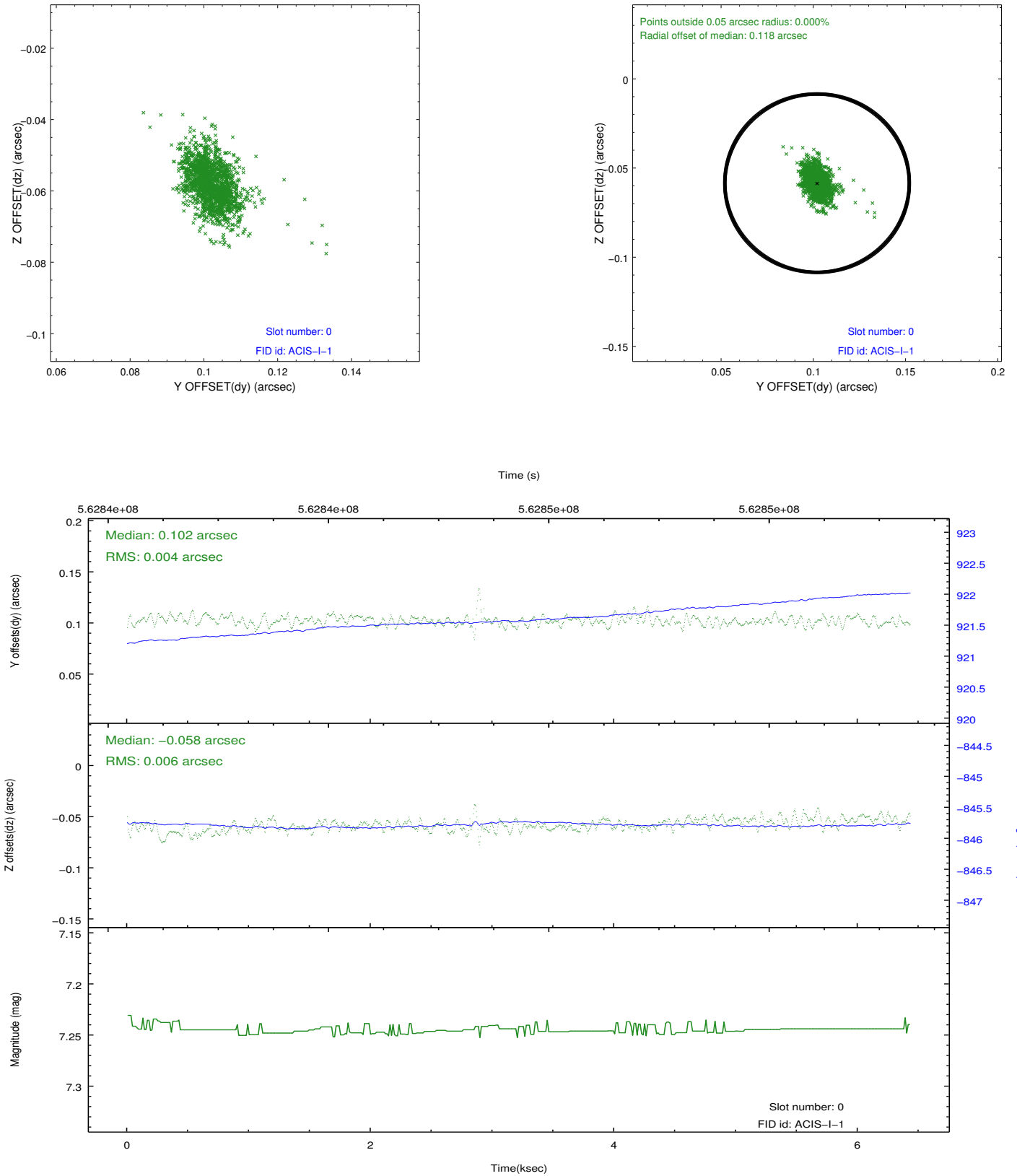


2.4.5 Slot 7

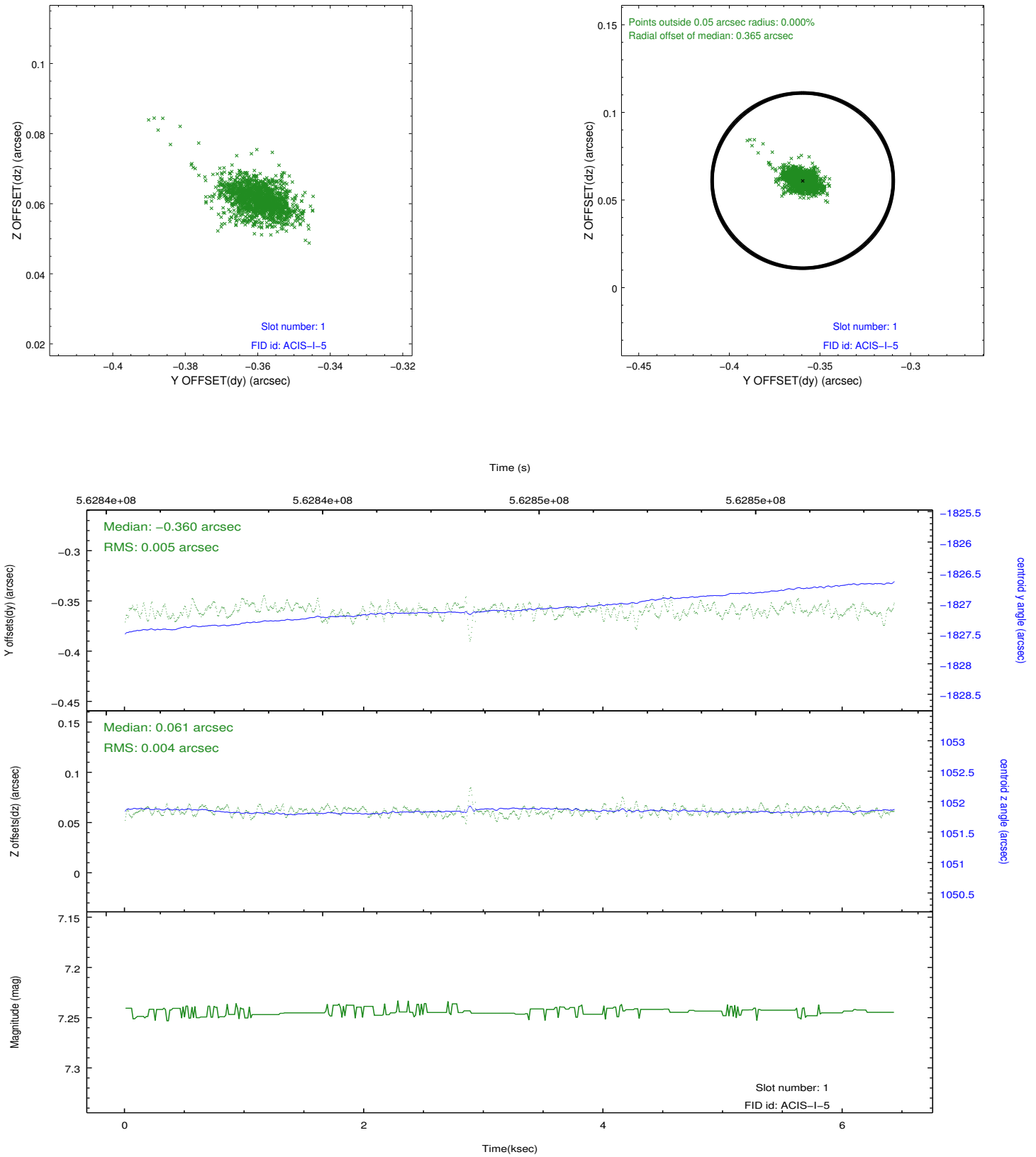


2.5 FID Slots

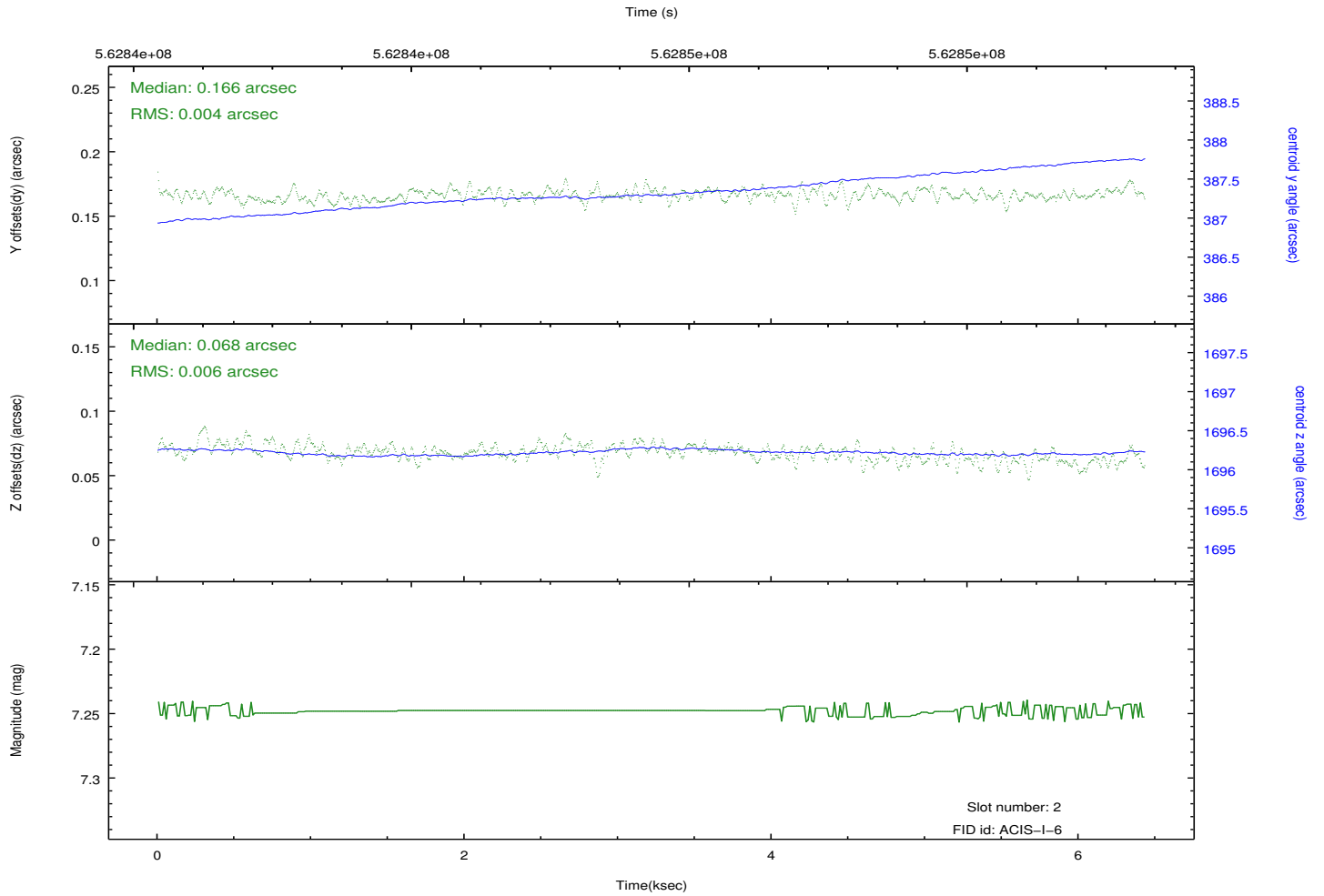
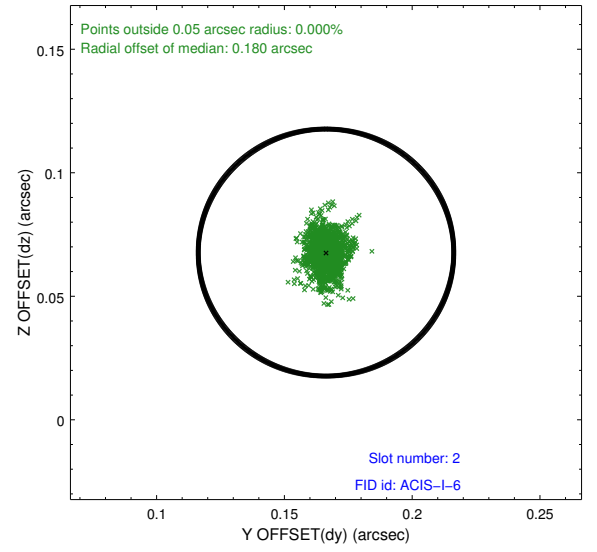
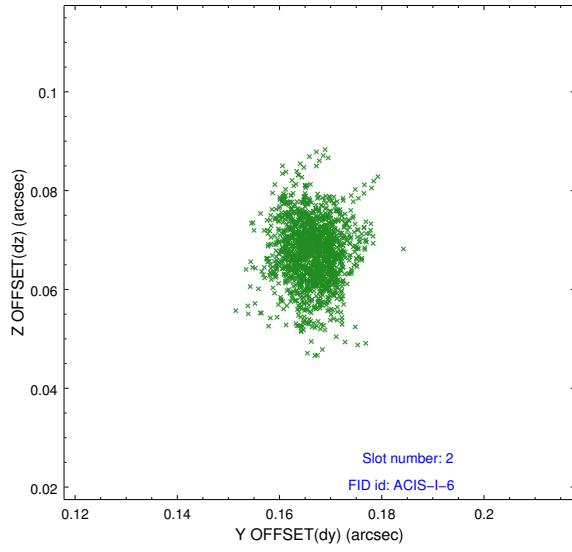
2.5.1 Slot 0



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)	2015.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0057261614799

A.2 Comments