

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17424 - L2 Version 1
Chandra X-Ray Center

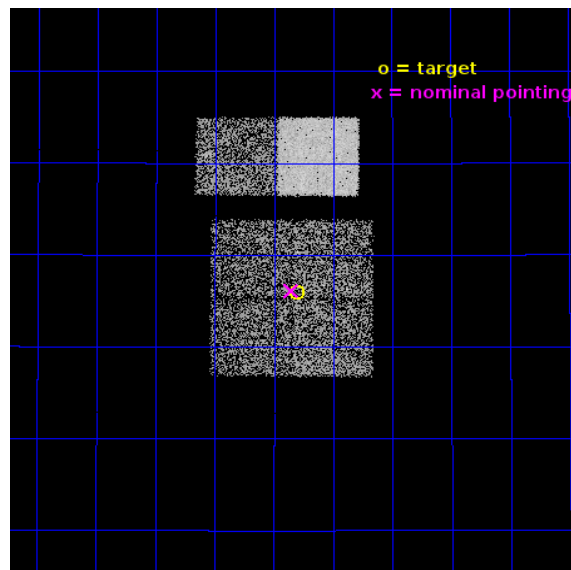
L2 Processing Date : Nov 2 2015

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

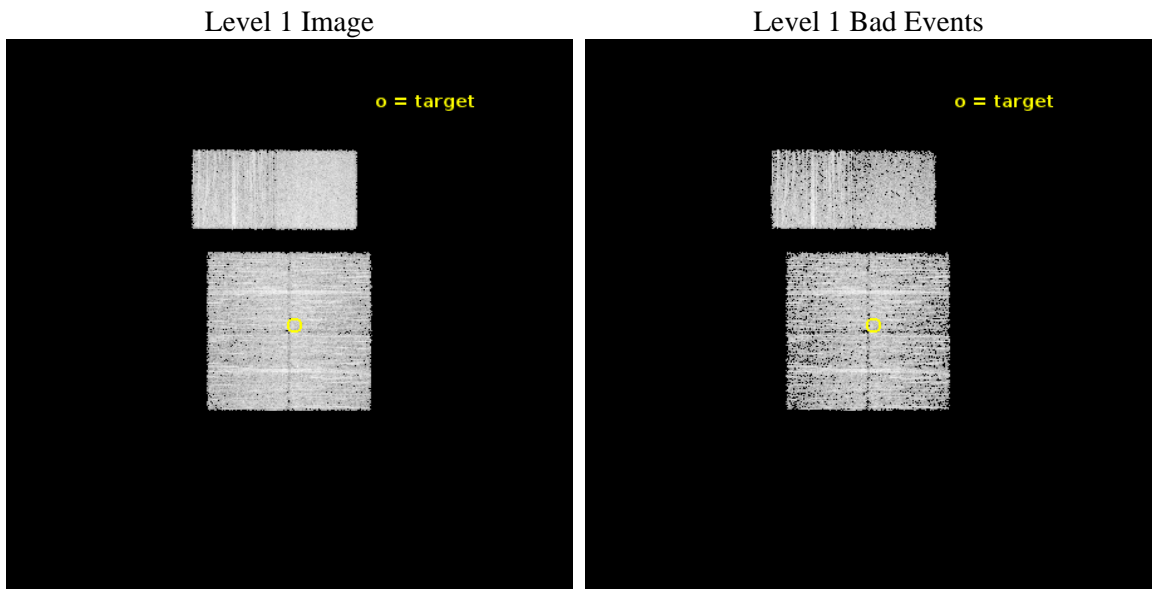
seq_num	901171	Sequence number
obs_id	17424	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.326667	Observer's specified target RA [deg]
dec_targ	34.431944	Observer's specified target Dec [deg]
ra_nom	217.33802801268	Nominal RA [deg]
dec_nom	34.435234364637	Nominal Dec [deg]
roll_nom	0.20229001188708	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6211.2000925541	Sum of GTIs [s]
livetime	6132.5501370465	Livetime [s]
ontime0	6211.2000925541	Sum of GTIs [s]
ontime1	6204.7181518078	Sum of GTIs [s]
ontime2	6211.2000925541	Sum of GTIs [s]
ontime3	6211.2000925541	Sum of GTIs [s]
ontime6	6211.2000925541	Sum of GTIs [s]
ontime7	6211.2000925541	Sum of GTIs [s]
l2events	36362	Number of level 2 events



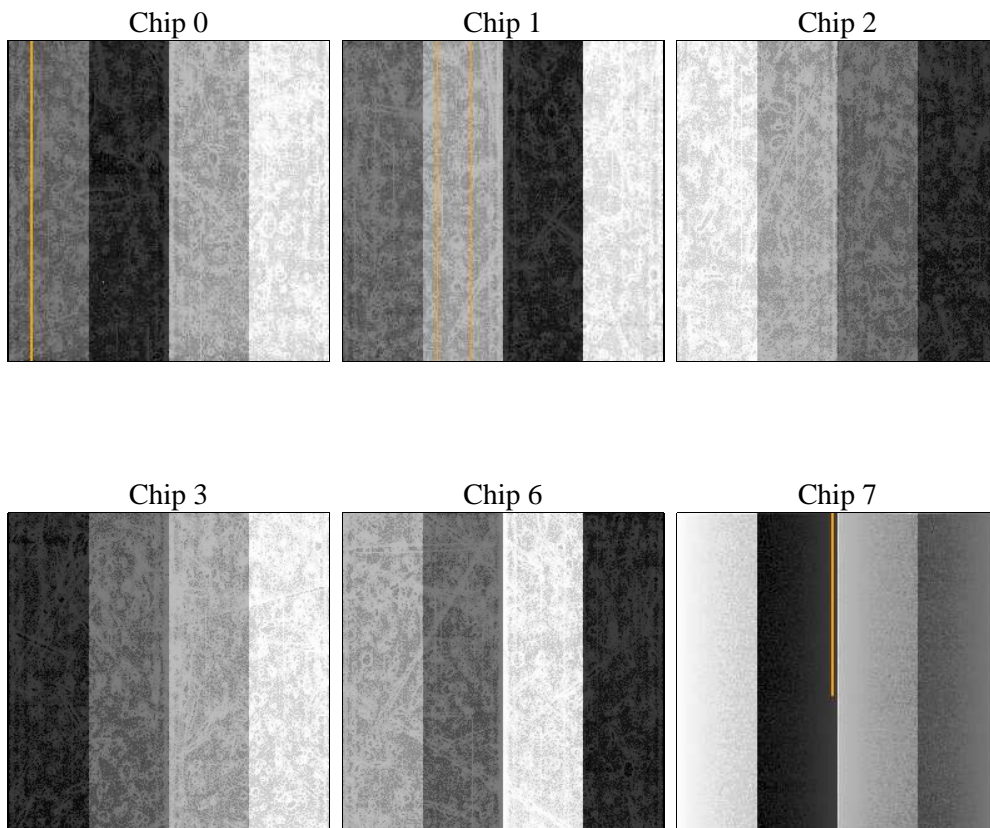
2 OBI

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	6211.2000925541	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6211.2000925541	Sum of GTIs [s]
date	2015-11-02T18:59:51	Date and time of file creation	ontime1	6204.7181518078	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6211.2000925541	Sum of GTIs [s]
			ontime3	6211.2000925541	Sum of GTIs [s]
			ontime6	6211.2000925541	Sum of GTIs [s]
			ontime7	6211.2000925541	Sum of GTIs [s]
			l1events	214907	Number of level 1 events

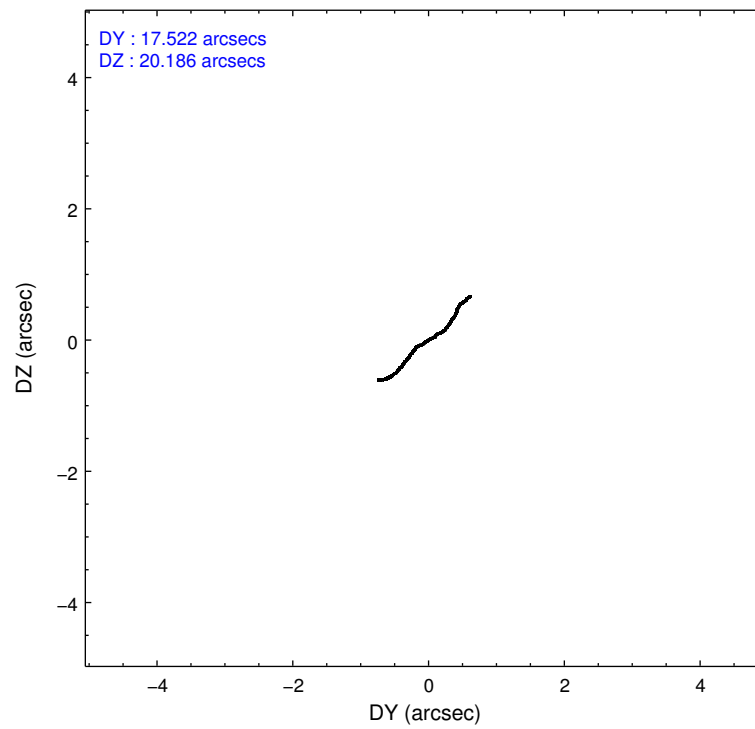
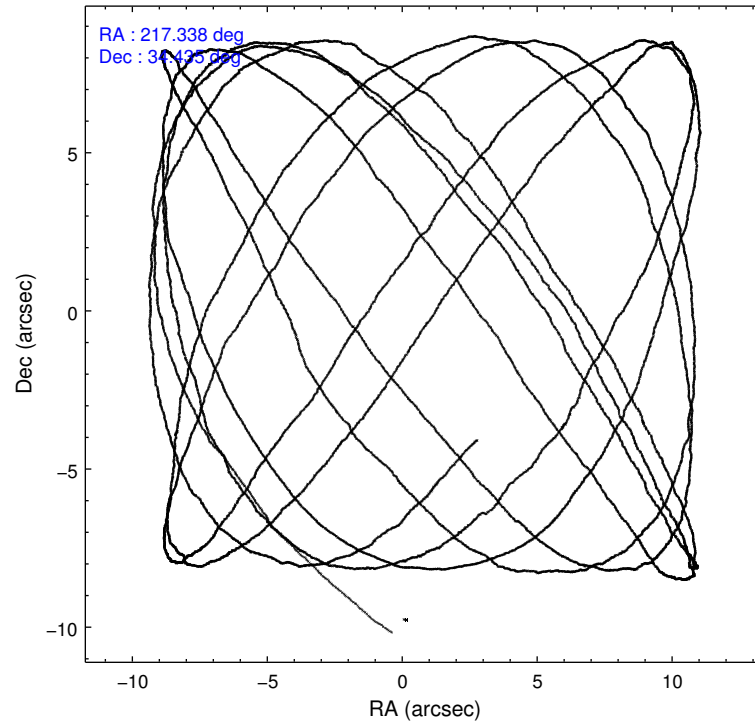
2.1.4 Events

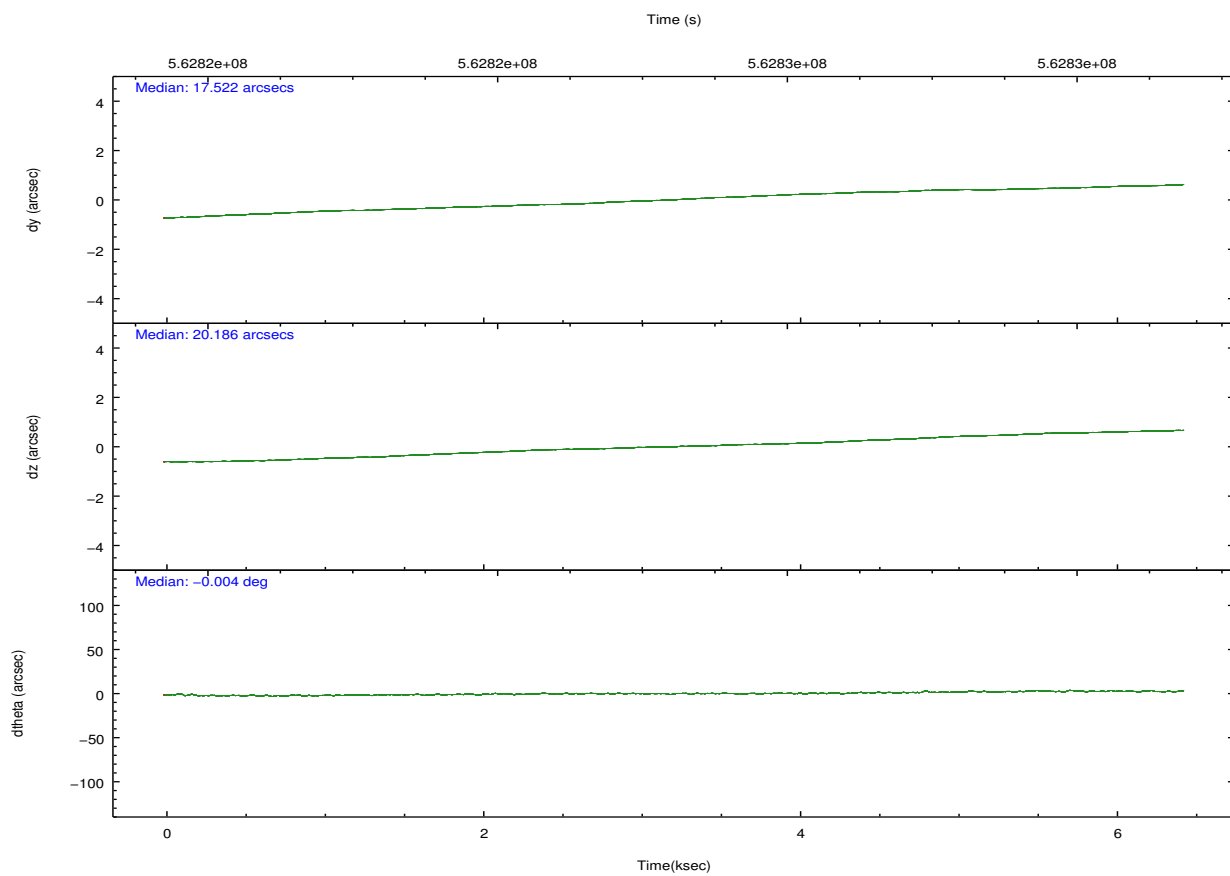
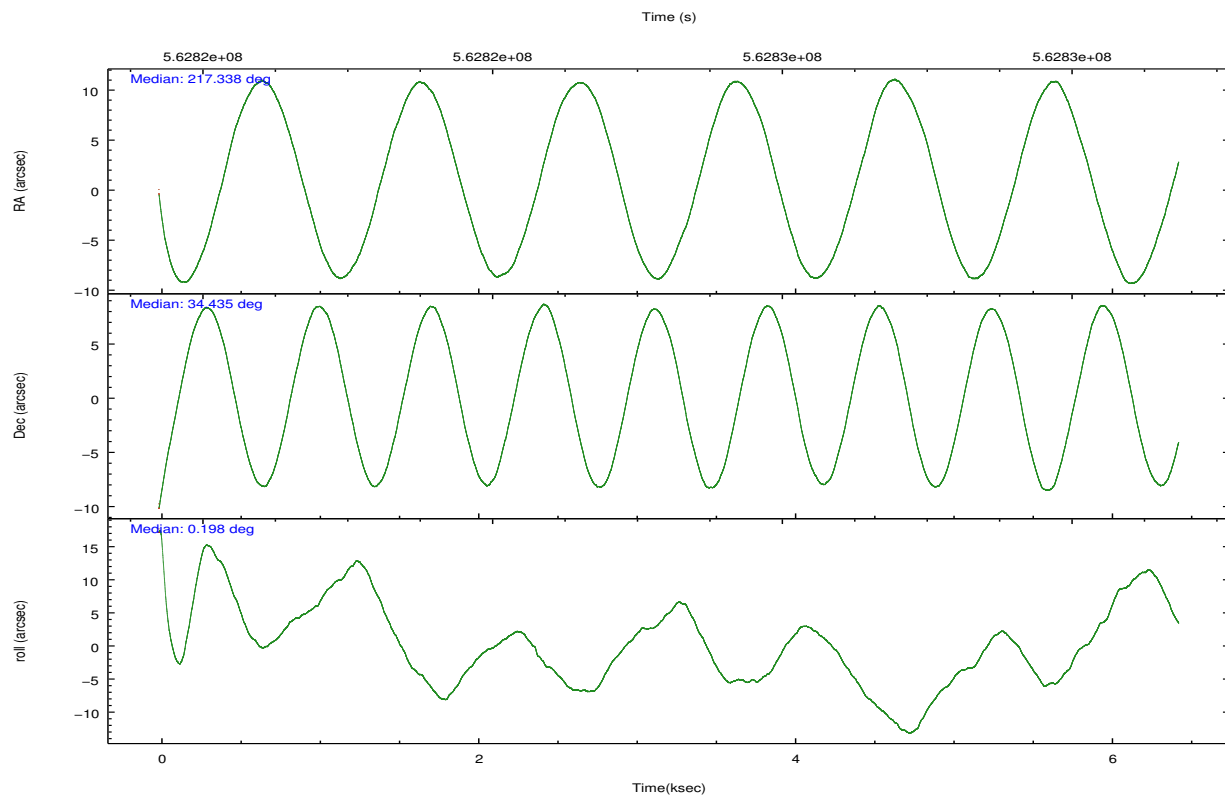
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30500	33970	34402	33282	37414	45339	grade 0 events	1379	1549	1304	1470	1378	1764
rejected events	26606	29417	30667	29454	33221	25523		4%	4%	3%	4%	3%	3%
rejected %	87%	86%	89%	88%	88%	56%	grade 1 events	22	14	19	18	11	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	985	1130	972	847	1016	4080
								3%	3%	2%	2%	2%	8%
							grade 3 events	386	436	342	348	435	1698
								1%	1%	0%	1%	1%	3%
							grade 4 events	373	454	395	388	388	1651
								1%	1%	1%	1%	1%	3%
							grade 5 events	1499	1676	1477	1669	1765	4817
								4%	4%	4%	5%	4%	10%
							grade 6 events	773	984	724	778	978	10634
								2%	2%	2%	2%	2%	23%
							grade 7 events	25083	27727	29169	27764	31443	20634
								82%	81%	84%	83%	84%	45%

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	217.309296	217.3380280126756	CCD I2 on	Y	Y
[deg] Pointing Dec	34.421275	34.43523436463696	CCD I3 on	Y	Y
[deg] Pointing Roll	0.009822	0.2022900118870847	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)	562822183.184000	562821153.53424	CCD S5 on	N	N
Observation start date	2015-11-02T03:28:35	2015-11-02T03:12:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	562828433.184000	562828567.87216	On-chip summing requested	N	N
Observation end date	2015-11-02T05:12:45	2015-11-02T05:16:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



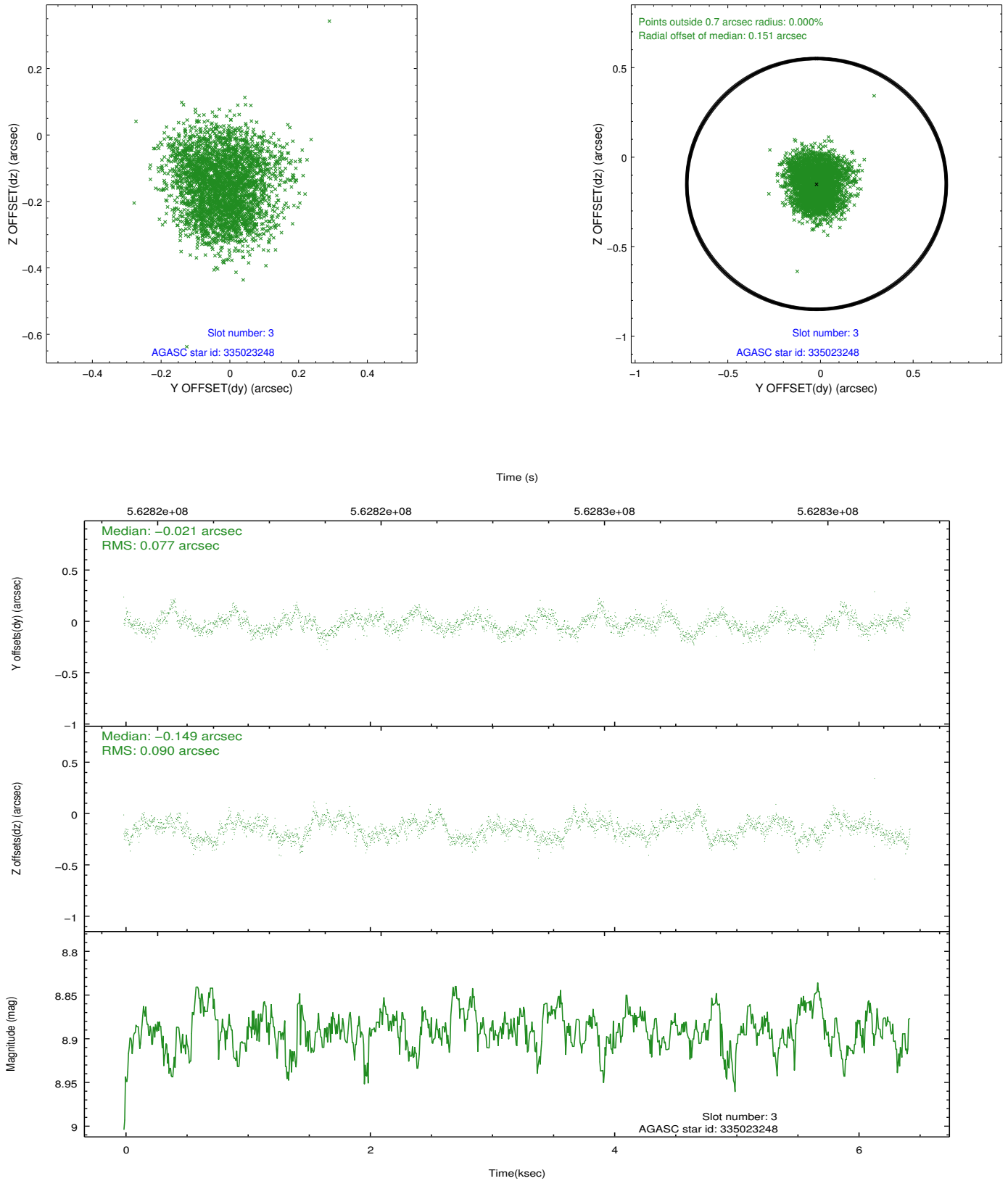


Slot Statistics

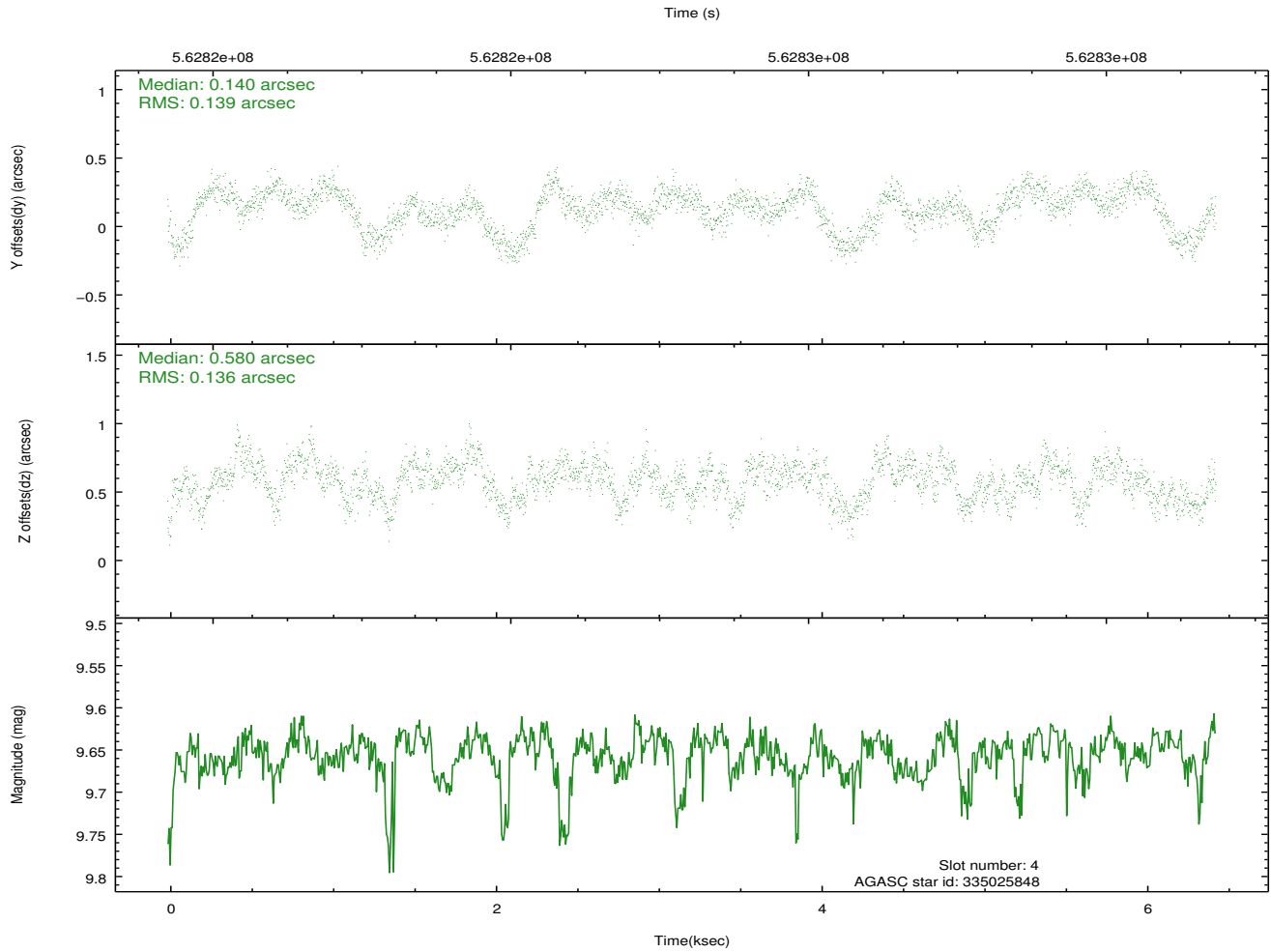
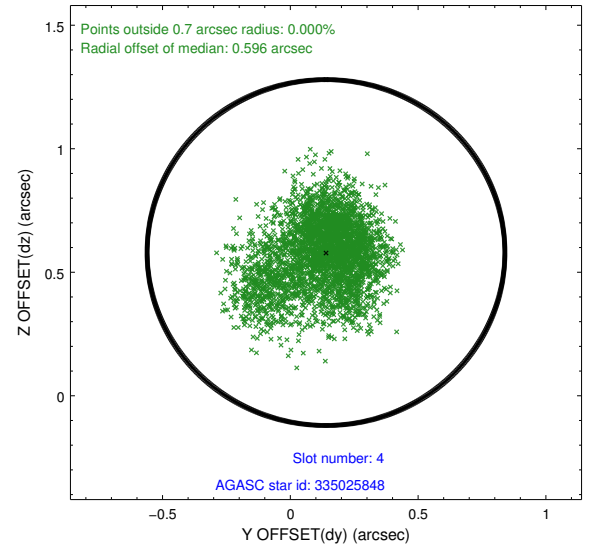
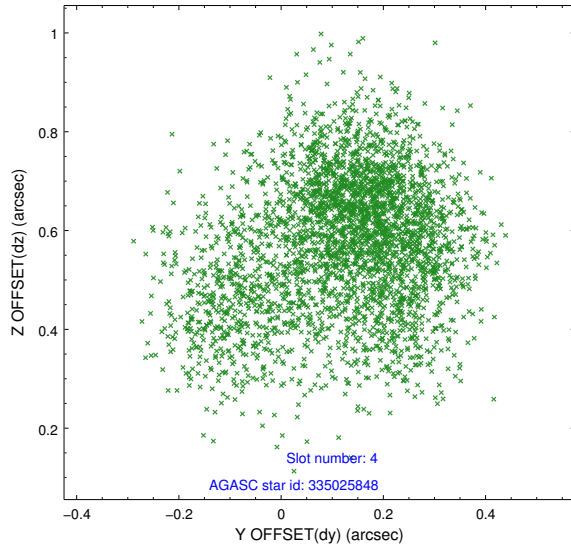
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	1571	0.087	-0.060	0.028	0.043	0.000000	0.000000	921.99	-843.96
1	FID		ACIS-I-5	7.23	1571	-0.373	0.039	0.009	0.014	0.000000	0.000000	-1826.15	1053.06
2	FID		ACIS-I-6	7.25	1571	0.195	0.092	0.022	0.033	0.000000	0.000000	386.55	1698.74
3	GUIDE	used	335023248	8.89	3140	-0.021	-0.149	0.128	0.196	217.634832	34.944512	961.30	1885.44
4	GUIDE	used	335025848	9.66	3140	0.140	0.580	0.207	0.344	217.530531	33.778292	662.73	-2312.46
5	GUIDE	used	335028696	9.20	3138	-0.310	0.274	0.112	0.178	217.260519	33.844112	-145.66	-2077.75
6	GUIDE	used	335030384	8.81	3138	0.502	-0.076	0.115	0.183	216.806407	34.722197	-1487.00	1086.89
7	GUIDE	used	335417968	9.37	3132	-0.293	-0.618	0.242	0.377	217.358149	35.055285	143.91	2282.65

2.4 Star Slots

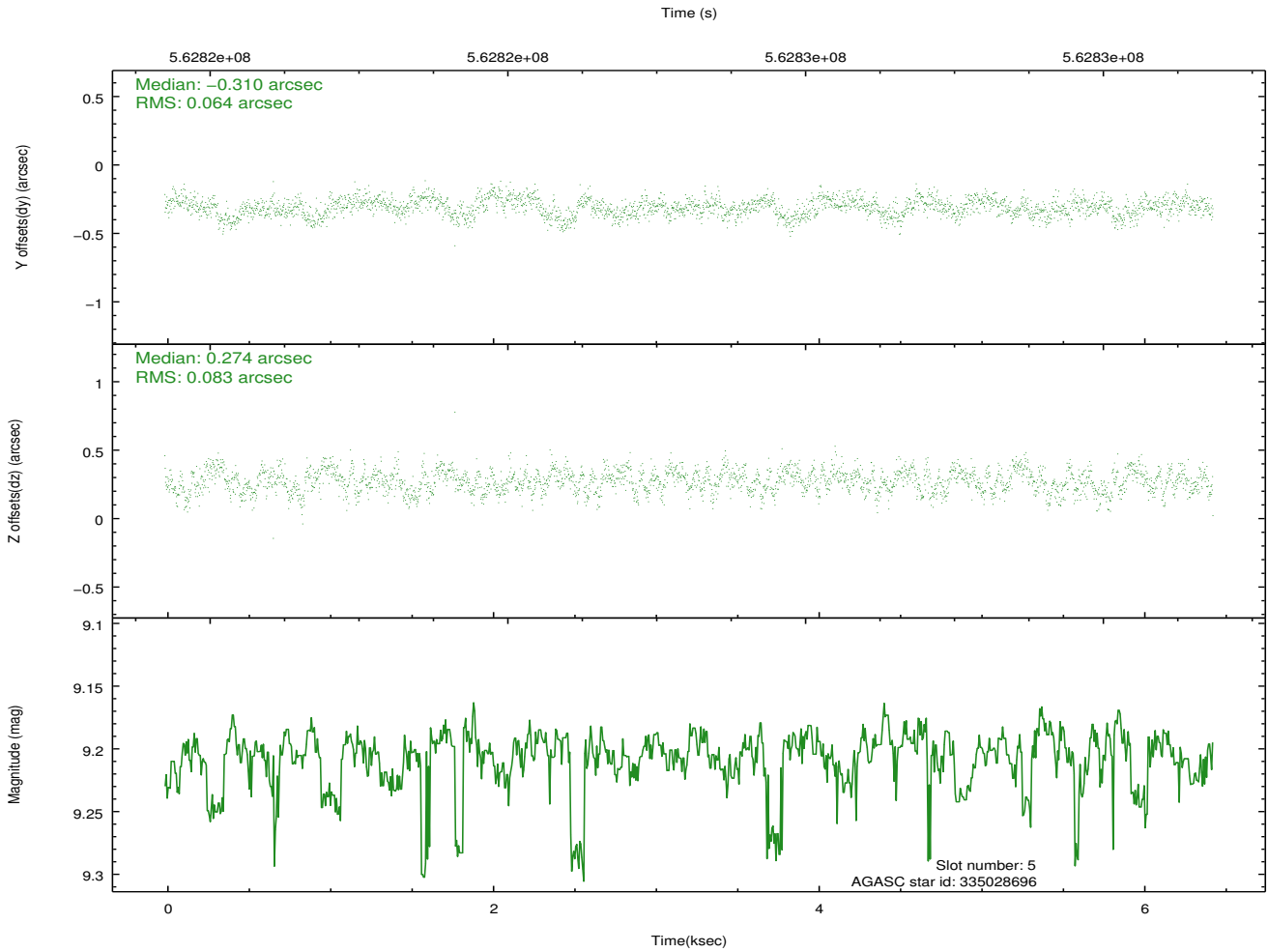
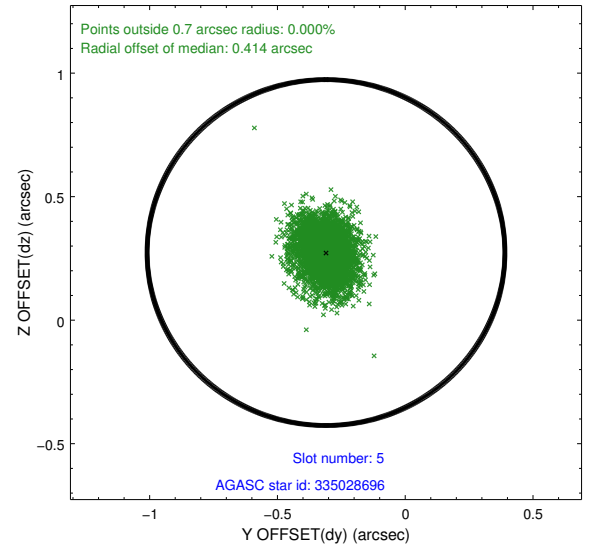
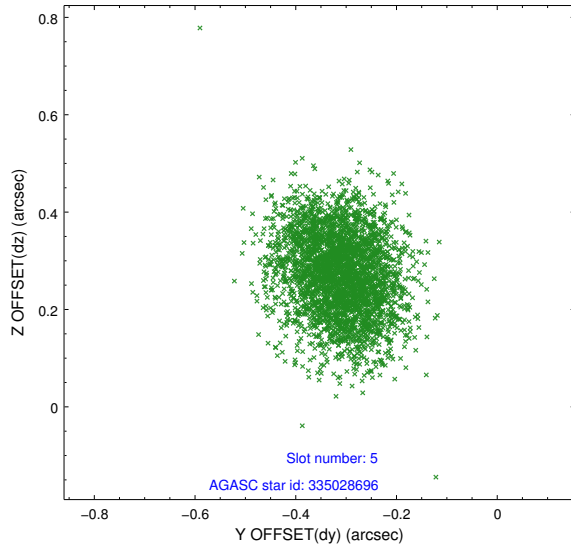
2.4.1 Slot 3



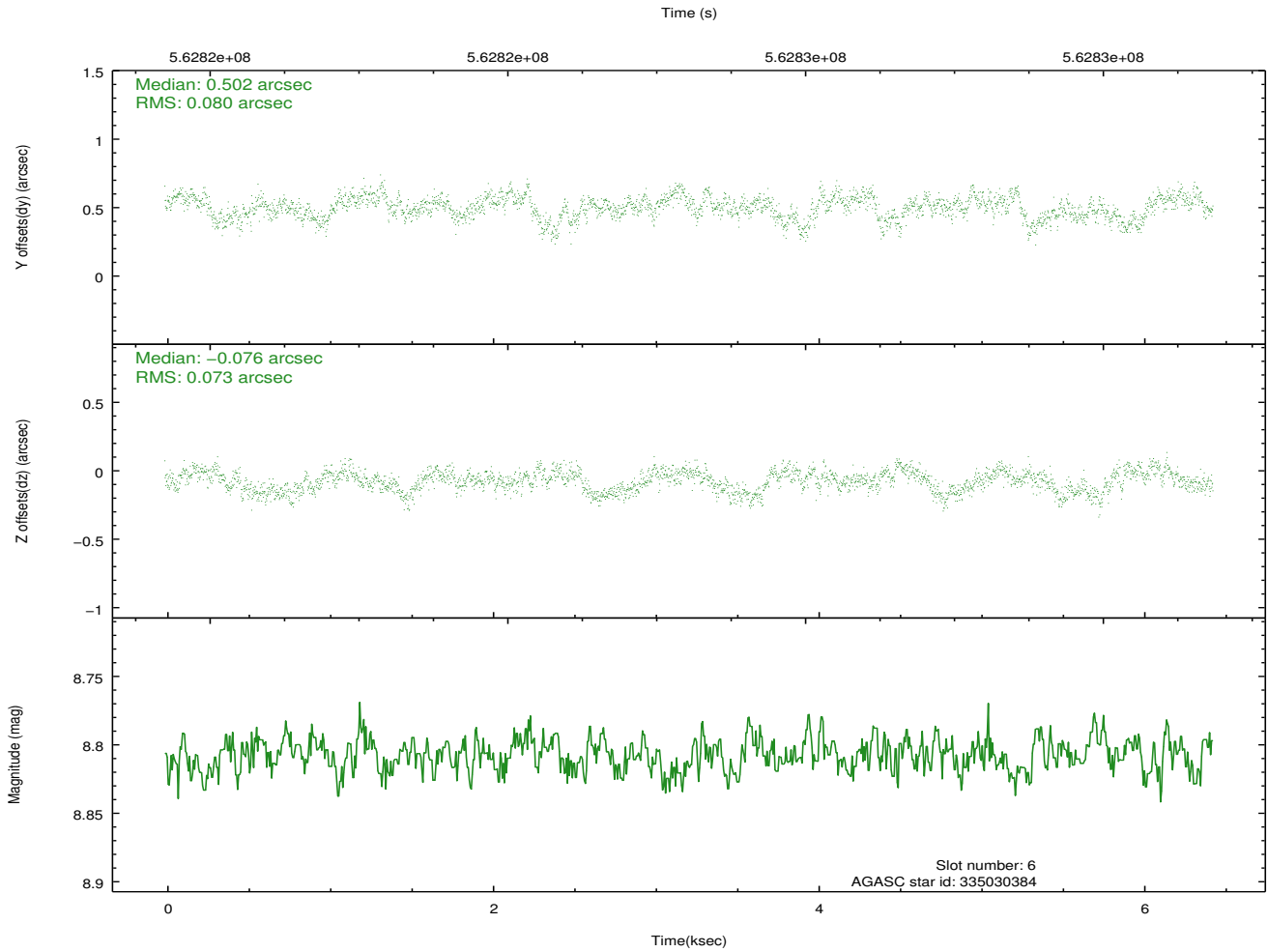
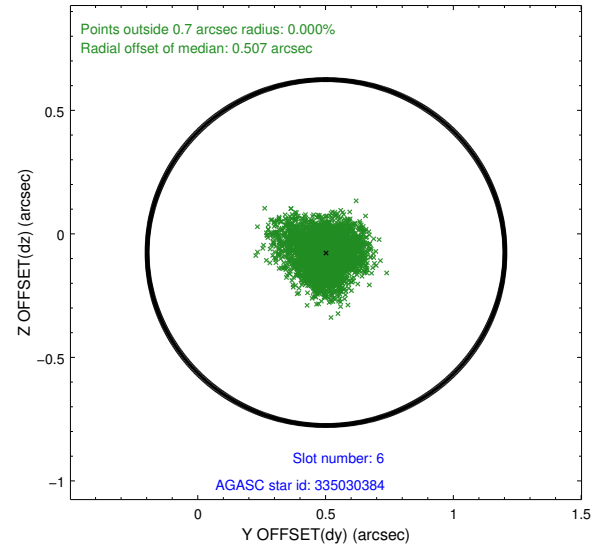
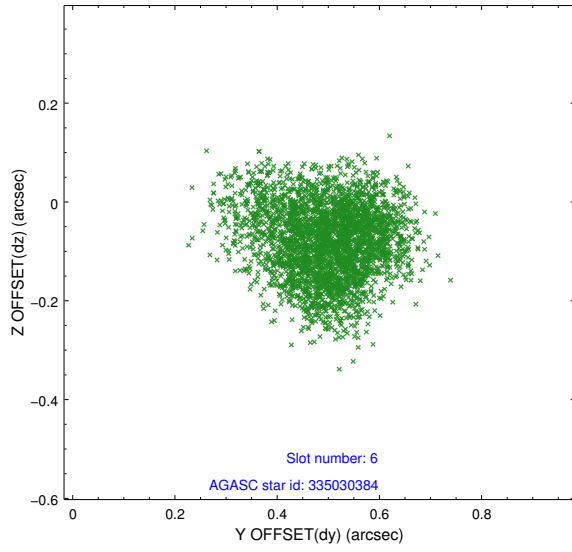
2.4.2 Slot 4



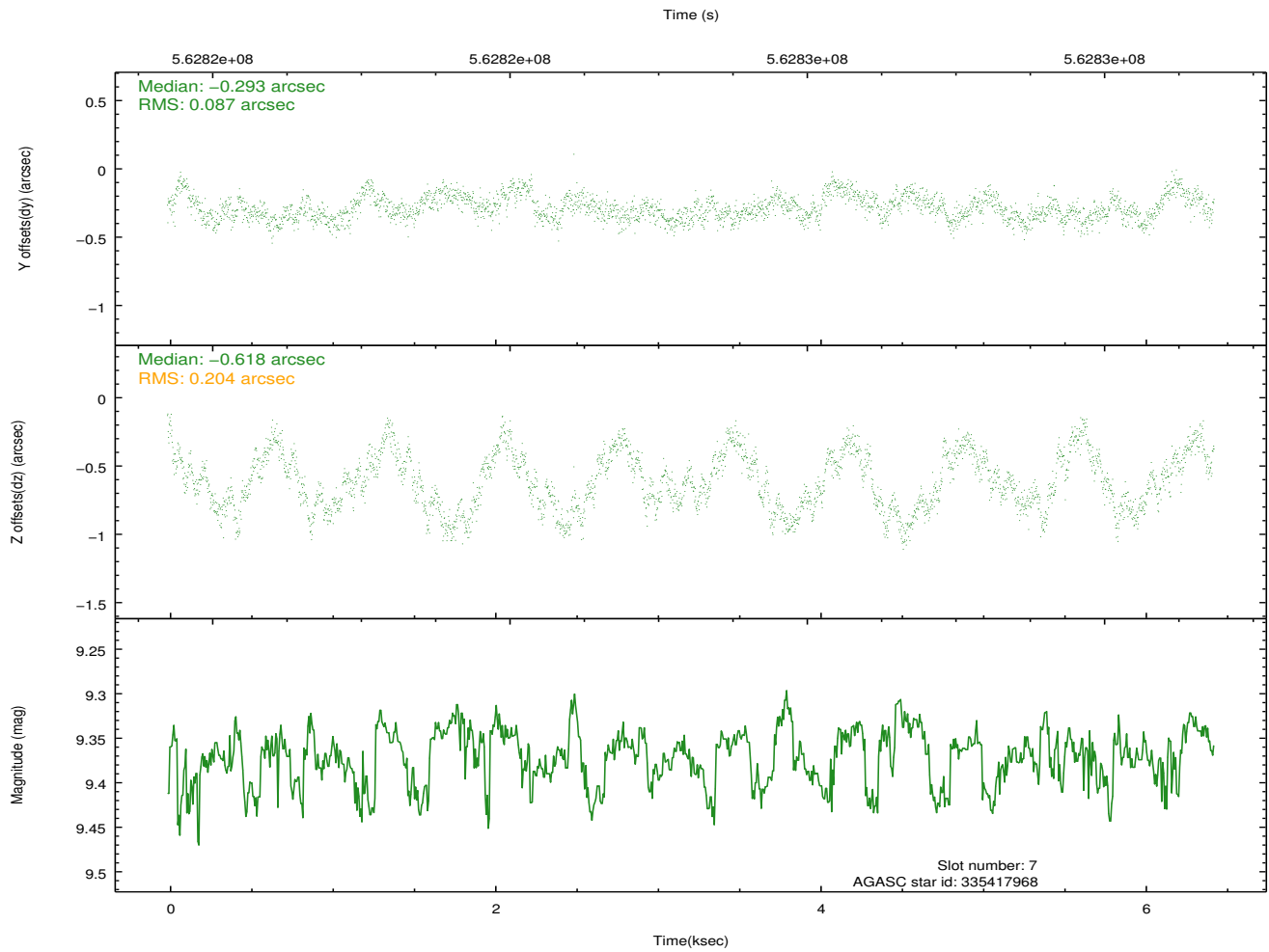
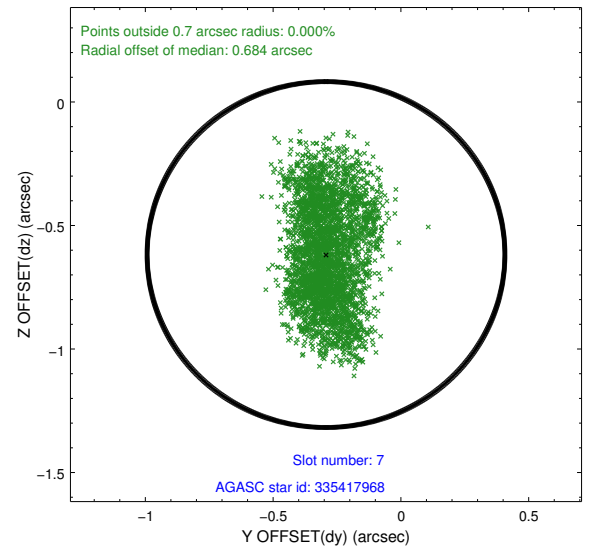
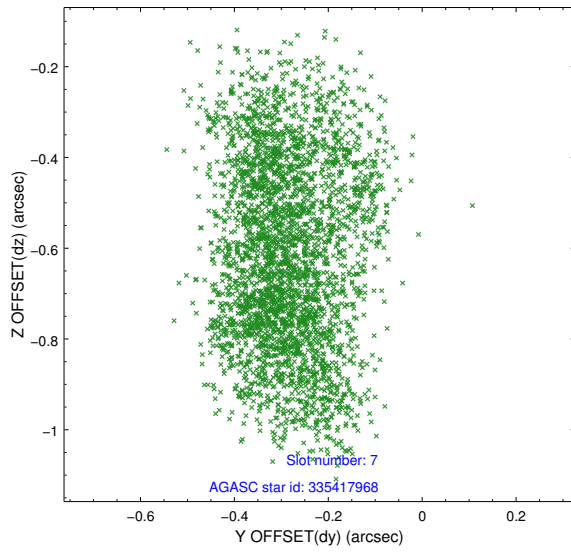
2.4.3 Slot 5



2.4.4 Slot 6

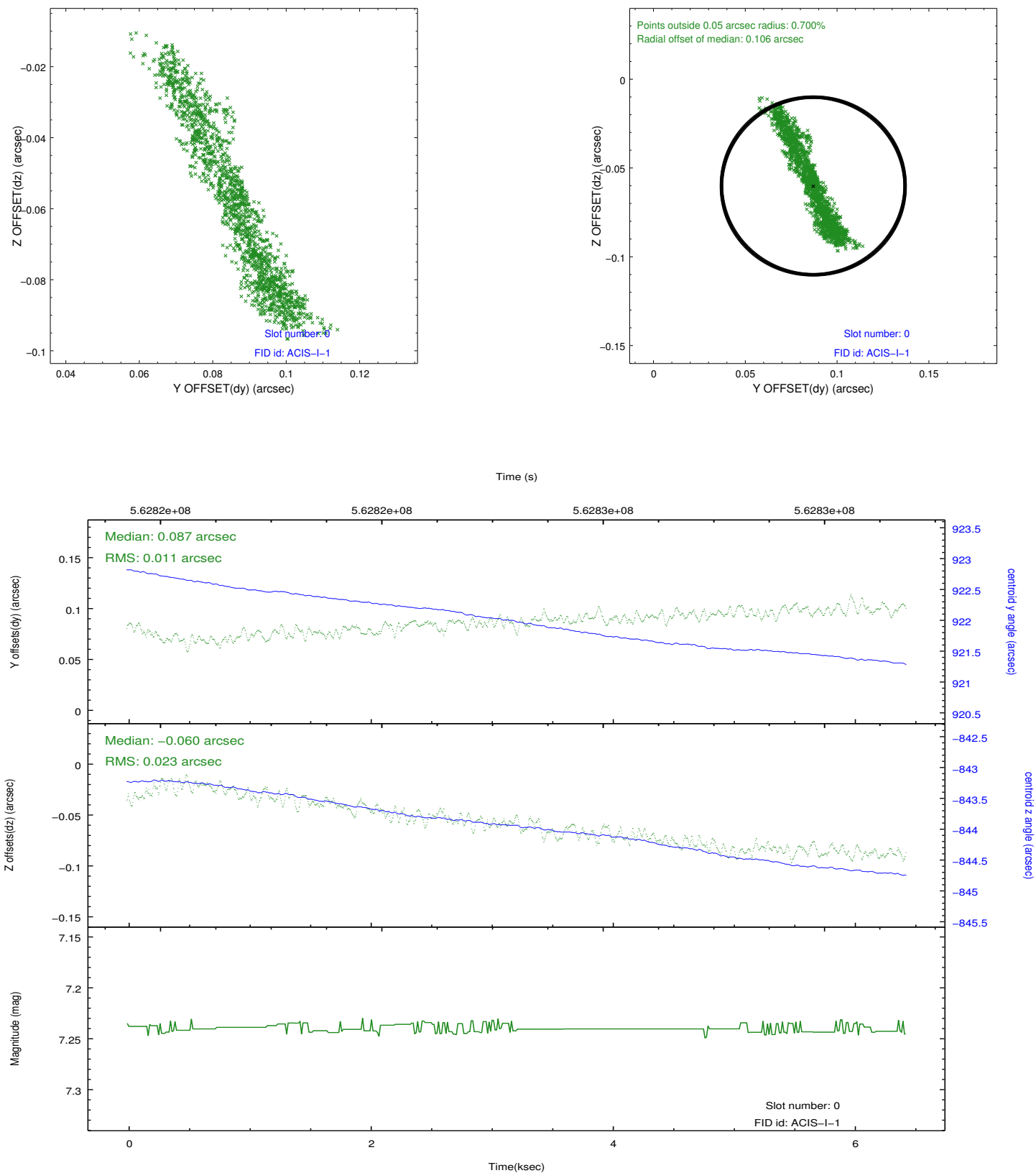


2.4.5 Slot 7

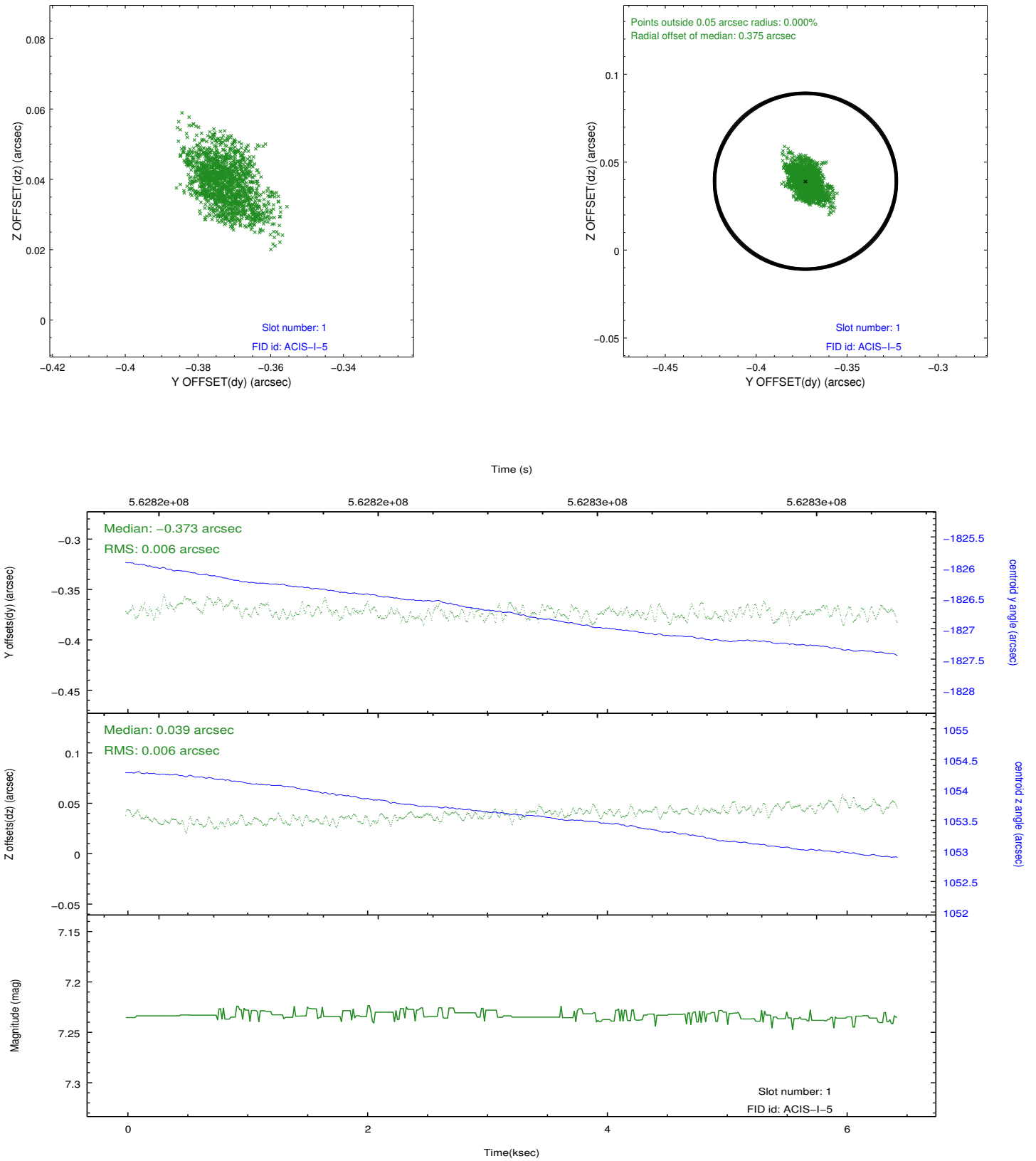


2.5 FID Slots

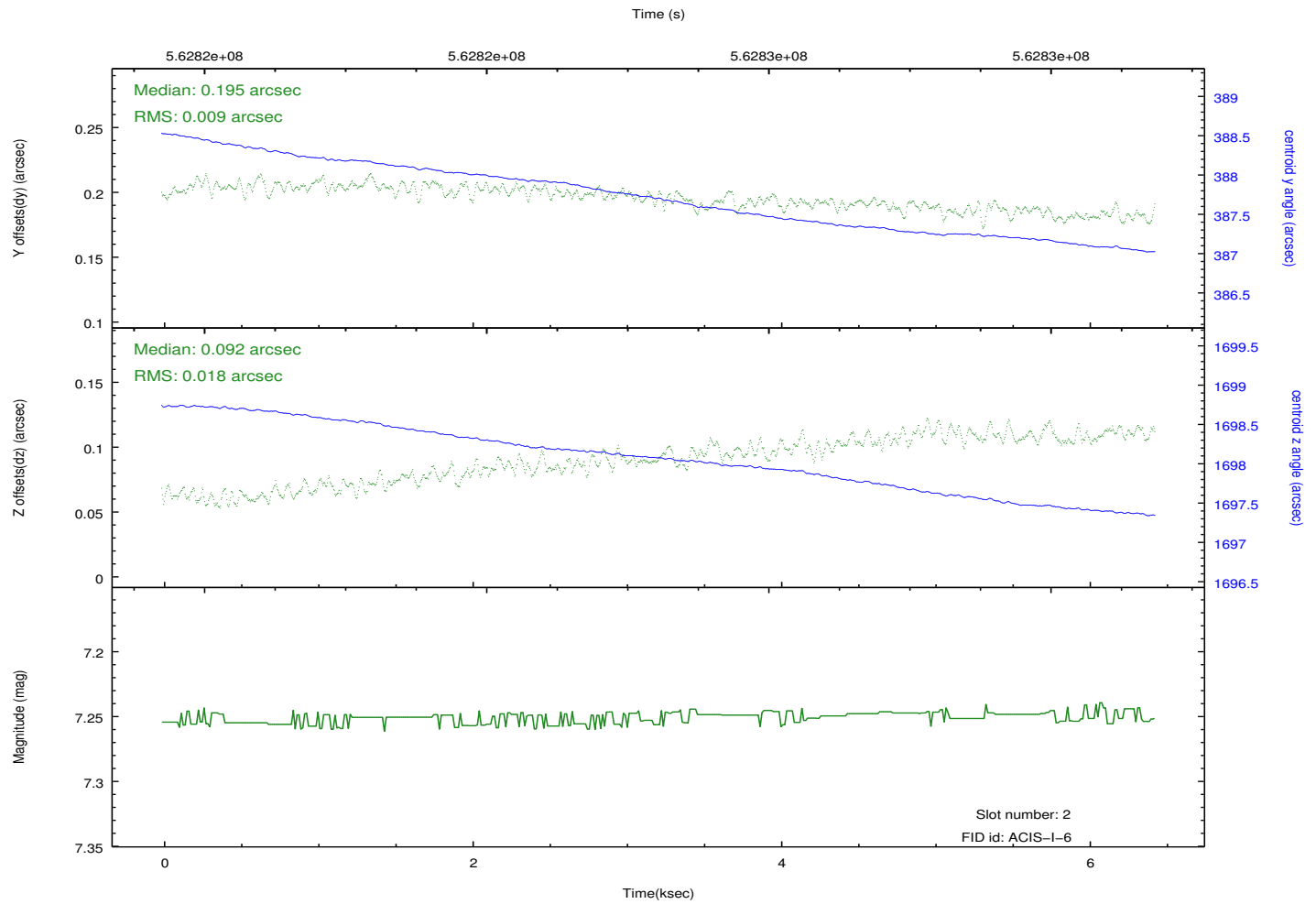
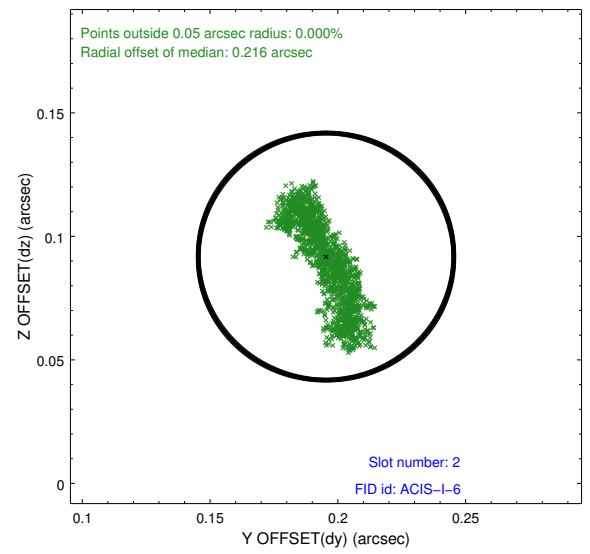
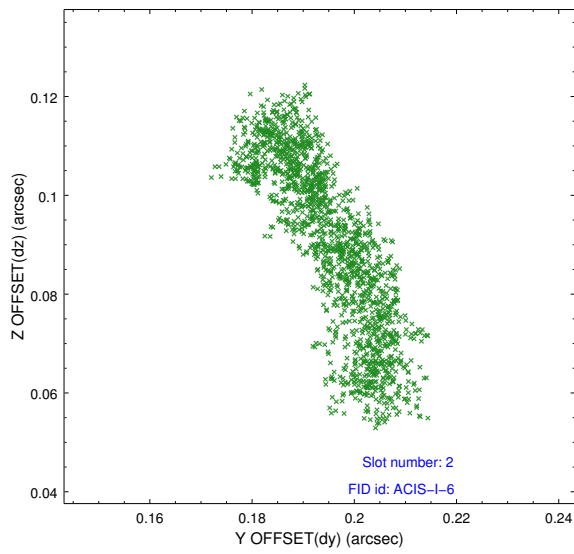
2.5.1 Slot 0



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	6.2112000925541

A.2 Comments