

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17426 - L2 Version 1
Chandra X-Ray Center

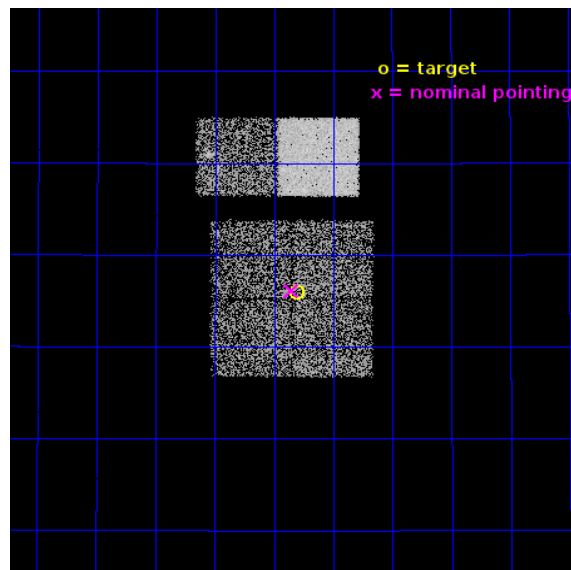
L2 Processing Date : Nov 2 2015

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

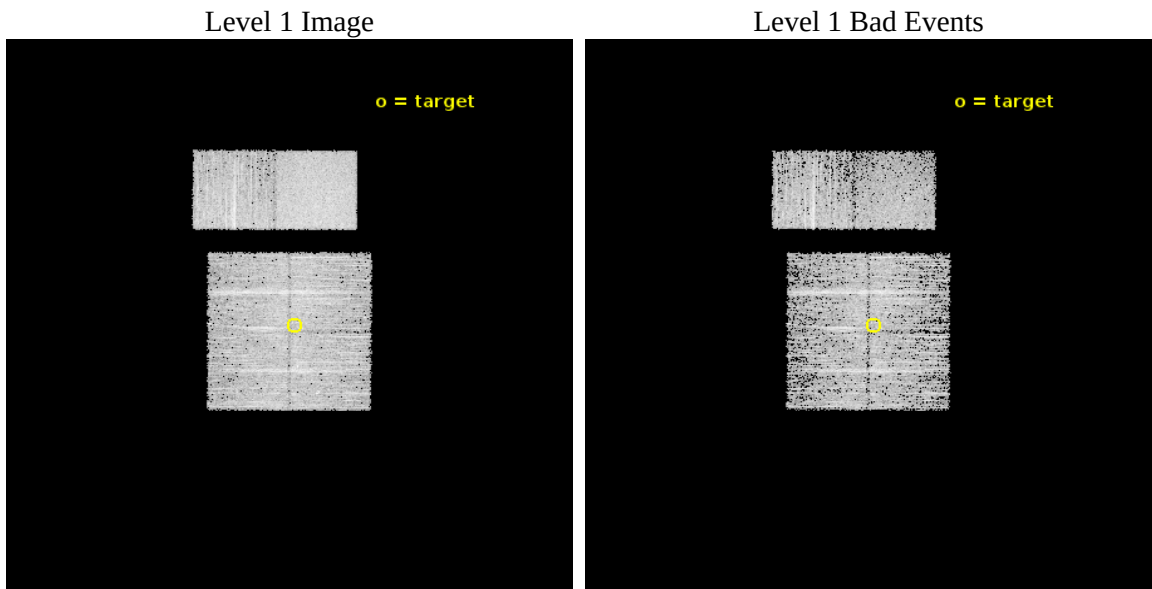
seq_num	901173	Sequence number
obs_id	17426	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.326667	Observer's specified target RA [deg]
dec_targ	34.431944	Observer's specified target Dec [deg]
ra_nom	217.3382575423	Nominal RA [deg]
dec_nom	34.435250429432	Nominal Dec [deg]
roll_nom	0.2021443132082	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6006.4000895023	Sum of GTIs [s]
livetime	5930.3434349491	Livetime [s]
ontime0	6006.4000895023	Sum of GTIs [s]
ontime1	6006.4000895023	Sum of GTIs [s]
ontime2	6006.4000895023	Sum of GTIs [s]
ontime3	6006.4000895023	Sum of GTIs [s]
ontime6	6006.4000895023	Sum of GTIs [s]
ontime7	6006.4000895023	Sum of GTIs [s]
l2events	35027	Number of level 2 events



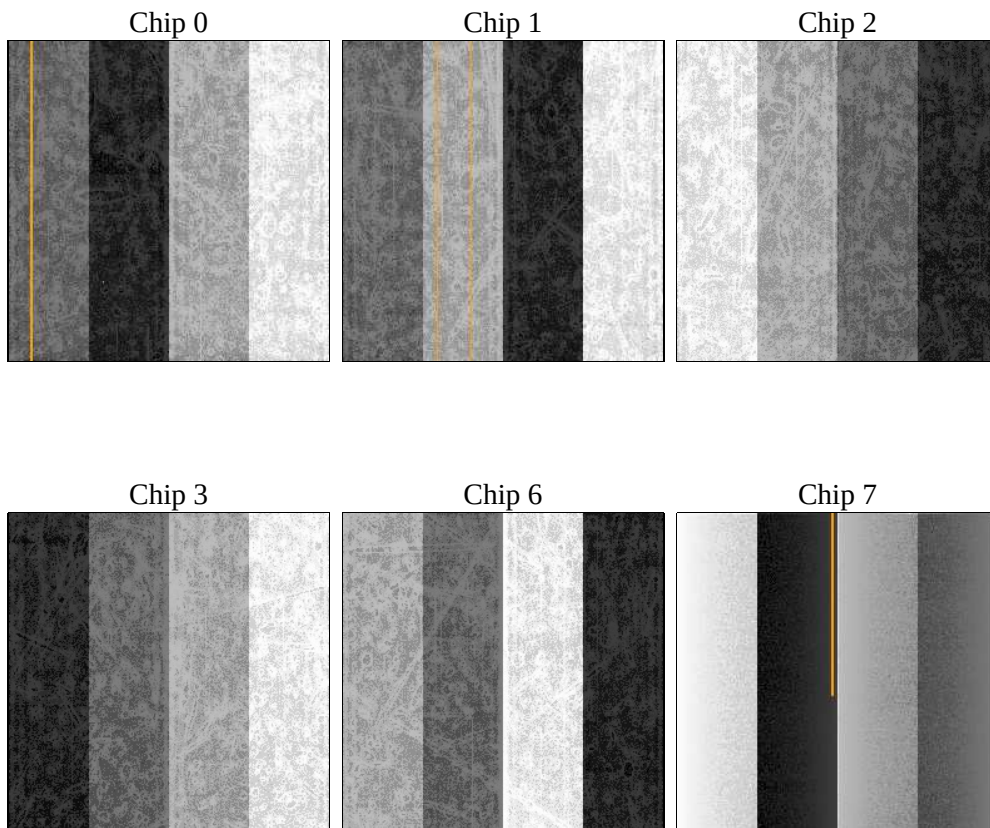
2 OBI

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	6006.4000895023	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6006.4000895023	Sum of GTIs [s]
date	2015-11-02T19:04:17	Date and time of file creation	ontime1	6006.4000895023	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6006.4000895023	Sum of GTIs [s]
			ontime3	6006.4000895023	Sum of GTIs [s]
			ontime6	6006.4000895023	Sum of GTIs [s]
			ontime7	6006.4000895023	Sum of GTIs [s]
			l1events	205072	Number of level 1 events

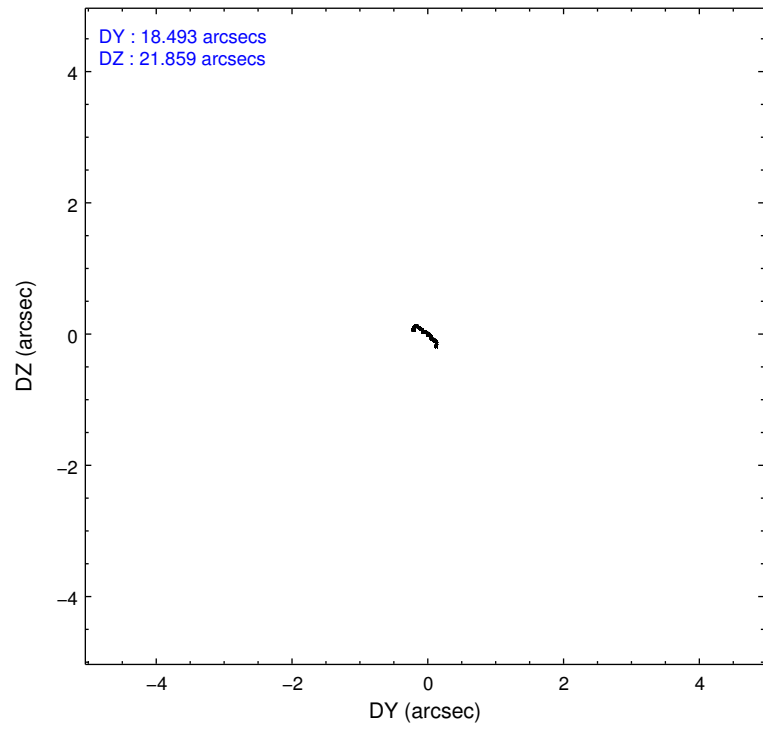
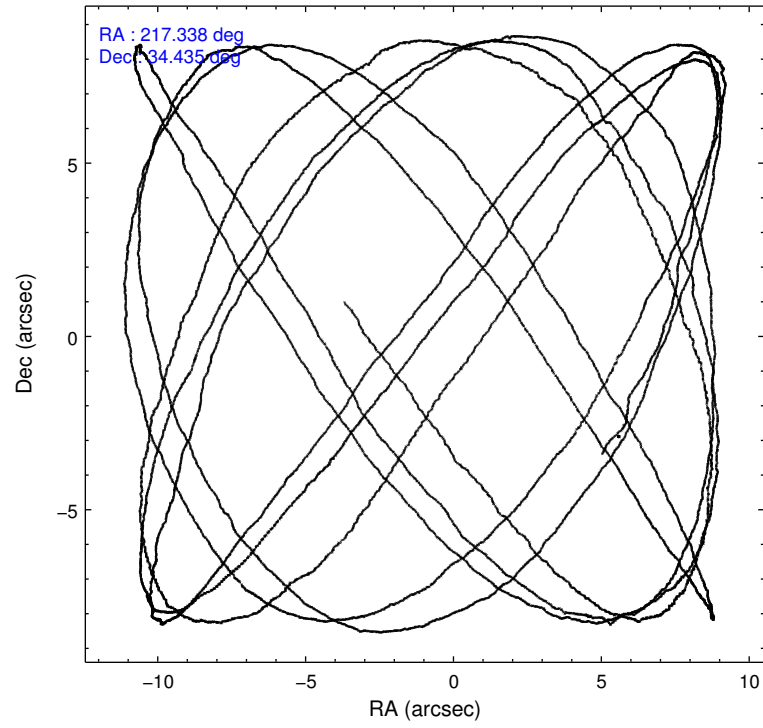
2.1.4 Events

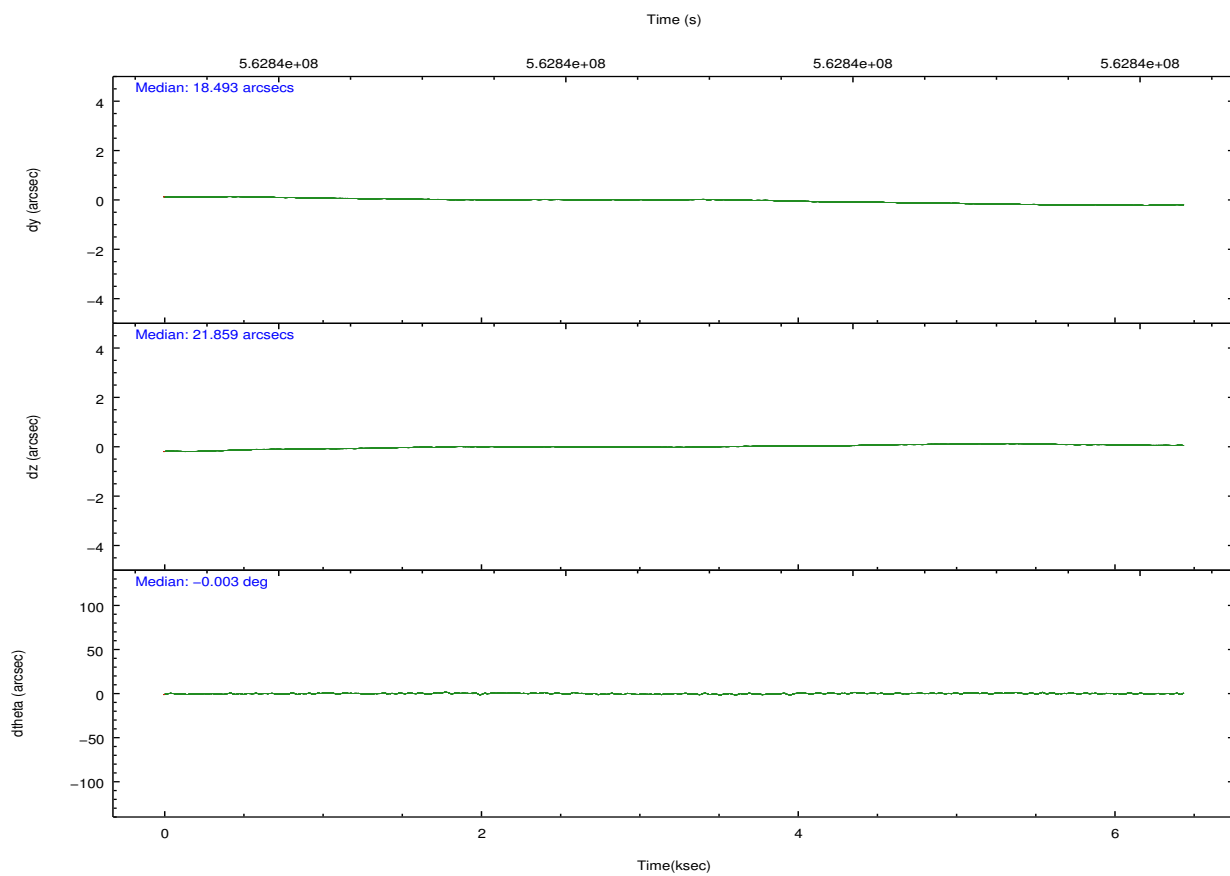
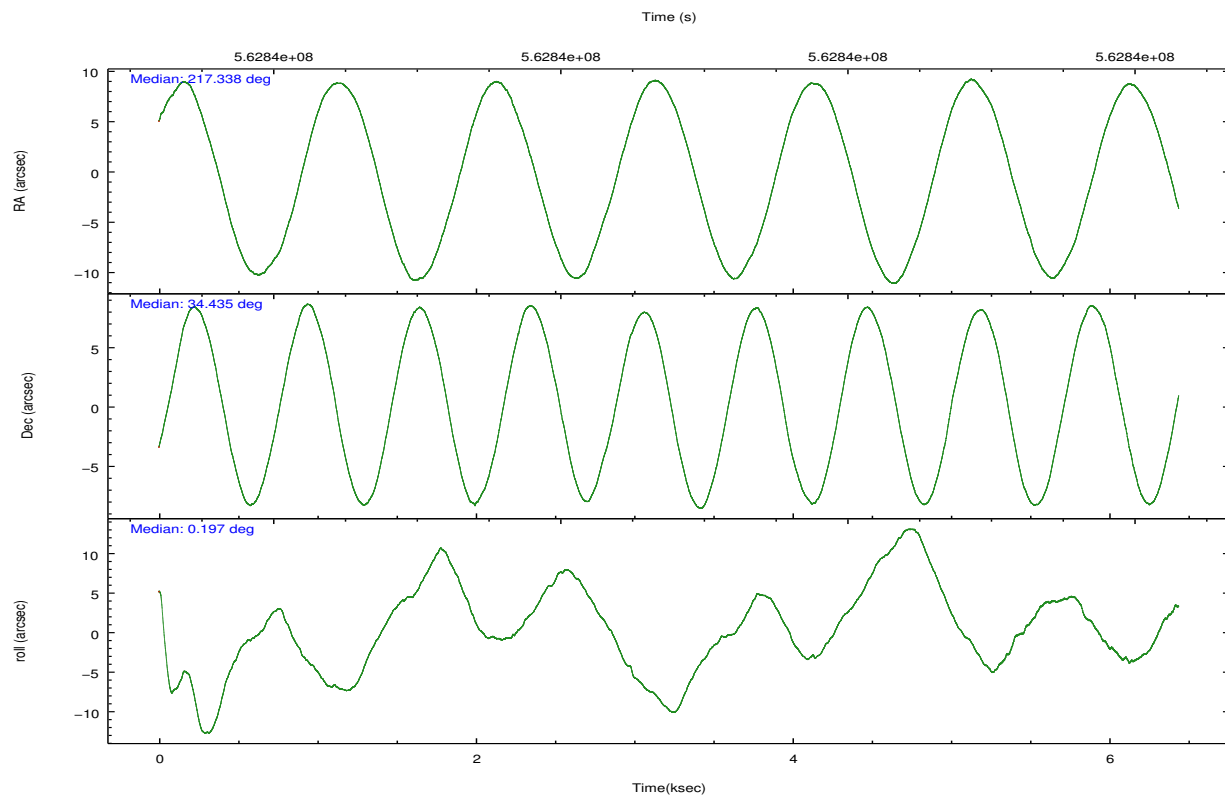
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30069	32107	31756	32831	34476	43833	grade 0 events	1272	1640	1262	1338	1316	1720
rejected events	26204	27668	28163	29217	30476	24673		4%	5%	3%	4%	3%	3%
rejected %	87%	86%	88%	88%	88%	56%	grade 1 events	16	18	22	20	17	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	1023	1061	873	766	950	4105
								3%	3%	2%	2%	2%	9%
							grade 3 events	393	406	364	366	410	1557
								1%	1%	1%	1%	1%	3%
							grade 4 events	367	400	362	353	407	1497
								1%	1%	1%	1%	1%	3%
							grade 5 events	1481	1515	1357	1736	1779	4459
								4%	4%	4%	5%	5%	10%
							grade 6 events	814	933	734	795	917	10290
								2%	2%	2%	2%	2%	23%
							grade 7 events	24703	26134	26782	27457	28680	20157
								82%	81%	84%	83%	83%	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	217.3382575423044	CCD I2 on	Y	Y
[deg] Pointing Dec	34.421275	34.43525042943185	CCD I3 on	Y	Y
[deg] Pointing Roll	0.009822	0.2021443132082033	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)	562835703.184000	562835327.74754	CCD S5 on	N	N
Observation start date	2015-11-02T07:13:55	2015-11-02T07:08:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	562841953.184000	562842197.81043	On-chip summing requested	N	N
Observation end date	2015-11-02T08:58:05	2015-11-02T09:03:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



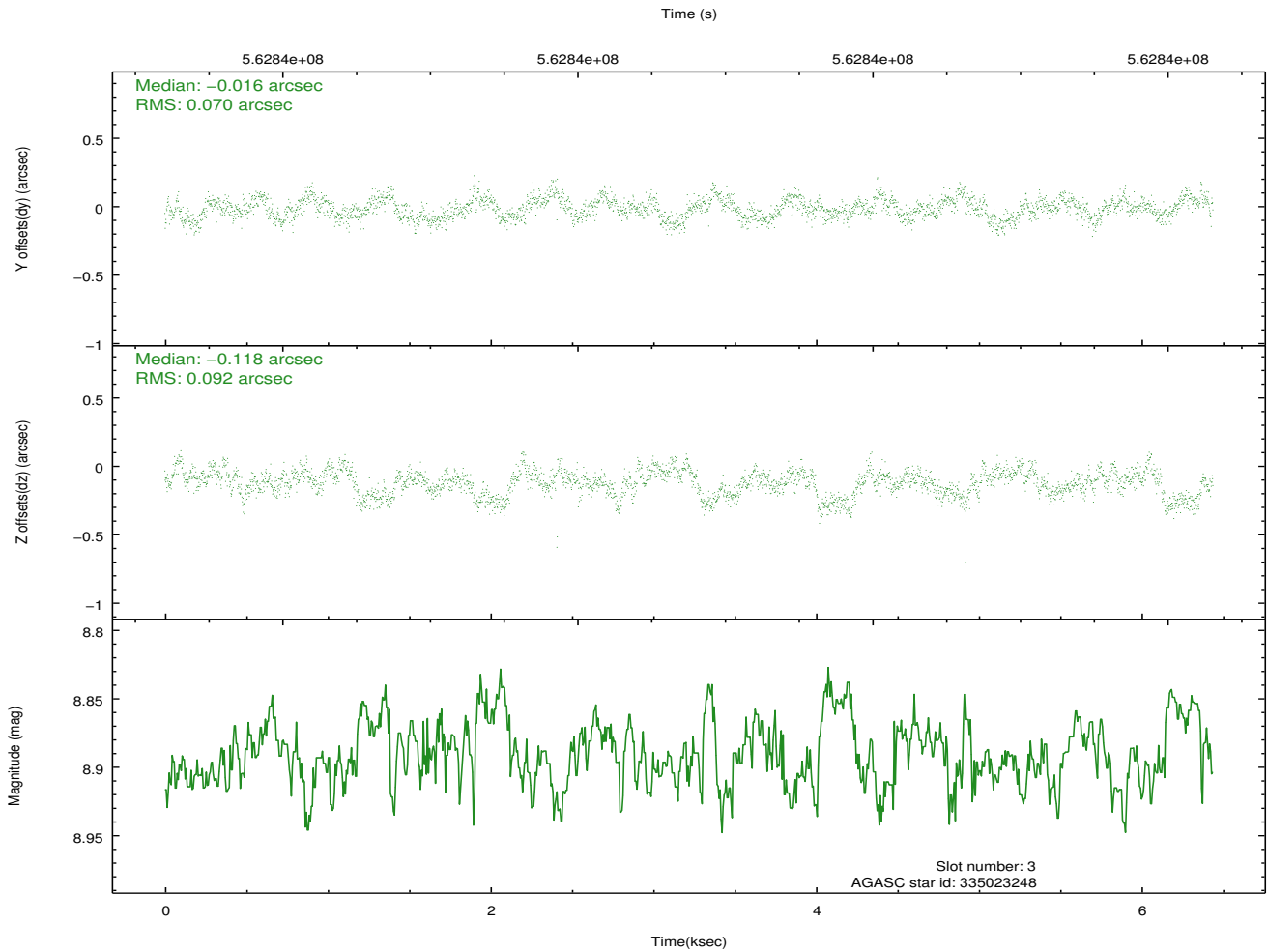
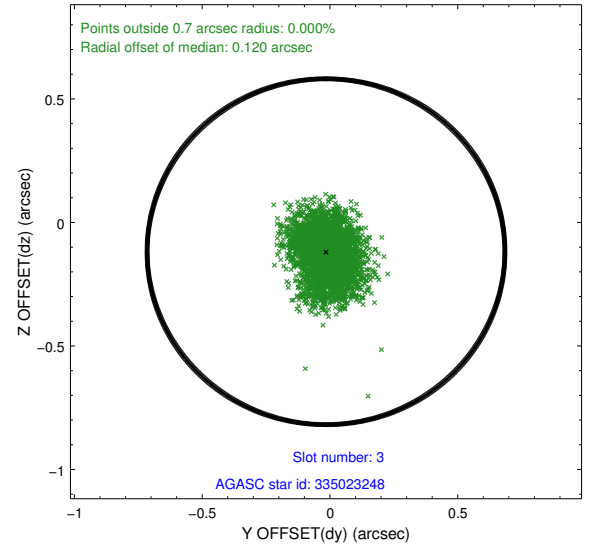
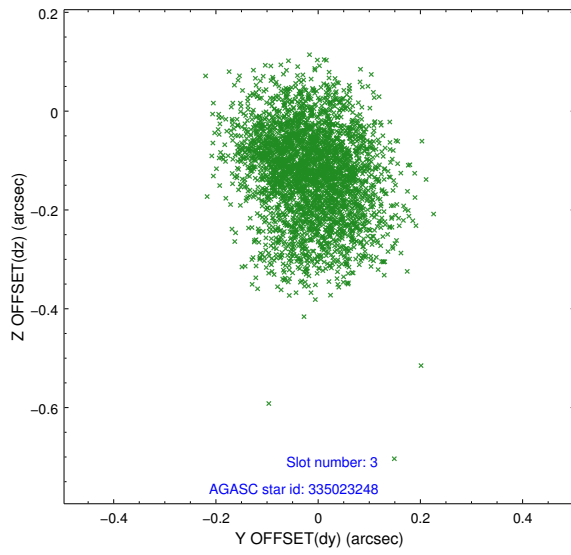


Slot Statistics

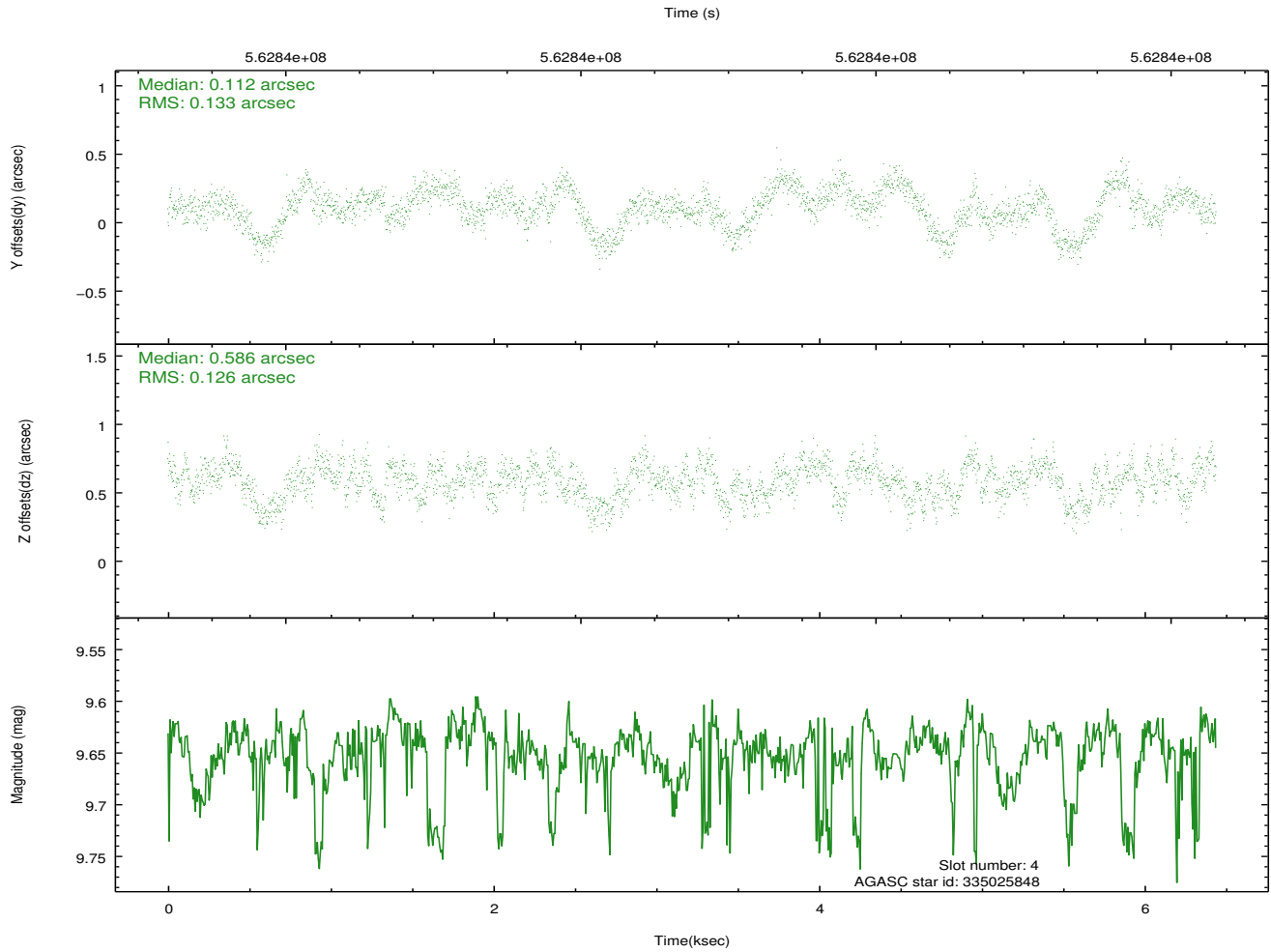
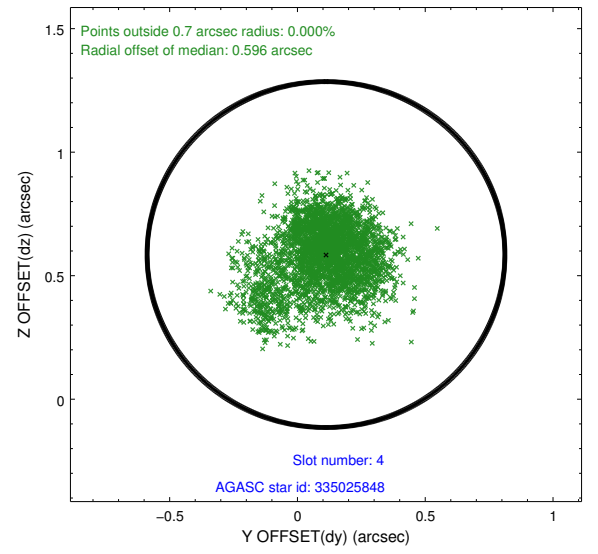
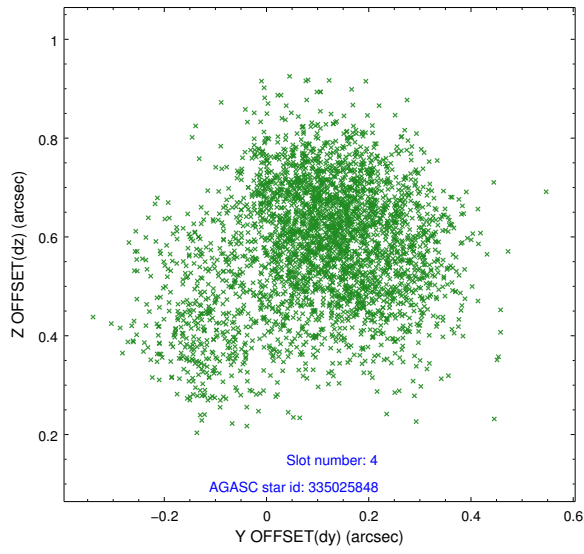
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	1571	0.108	-0.071	0.009	0.015	0.000000	0.000000	921.03	-845.70
1	FID		ACIS-I-5	7.25	1571	-0.367	0.063	0.006	0.011	0.000000	0.000000	-1827.09	1051.41
2	FID		ACIS-I-6	7.24	1571	0.168	0.079	0.009	0.015	0.000000	0.000000	385.58	1697.01
3	GUIDE	used	335023248	8.89	3141	-0.016	-0.118	0.124	0.200	217.634832	34.944512	960.65	1885.45
4	GUIDE	used	335025848	9.65	3136	0.112	0.586	0.192	0.333	217.530531	33.778292	662.07	-2312.46
5	GUIDE	used	335028696	9.20	3139	-0.304	0.280	0.128	0.208	217.260519	33.844112	-146.30	-2077.75
6	GUIDE	used	335030384	8.81	3136	0.499	-0.085	0.115	0.179	216.806407	34.722197	-1487.66	1086.87
7	GUIDE	used	335417968	9.36	3138	-0.286	-0.661	0.273	0.410	217.358149	35.055285	143.23	2282.61

2.4 Star Slots

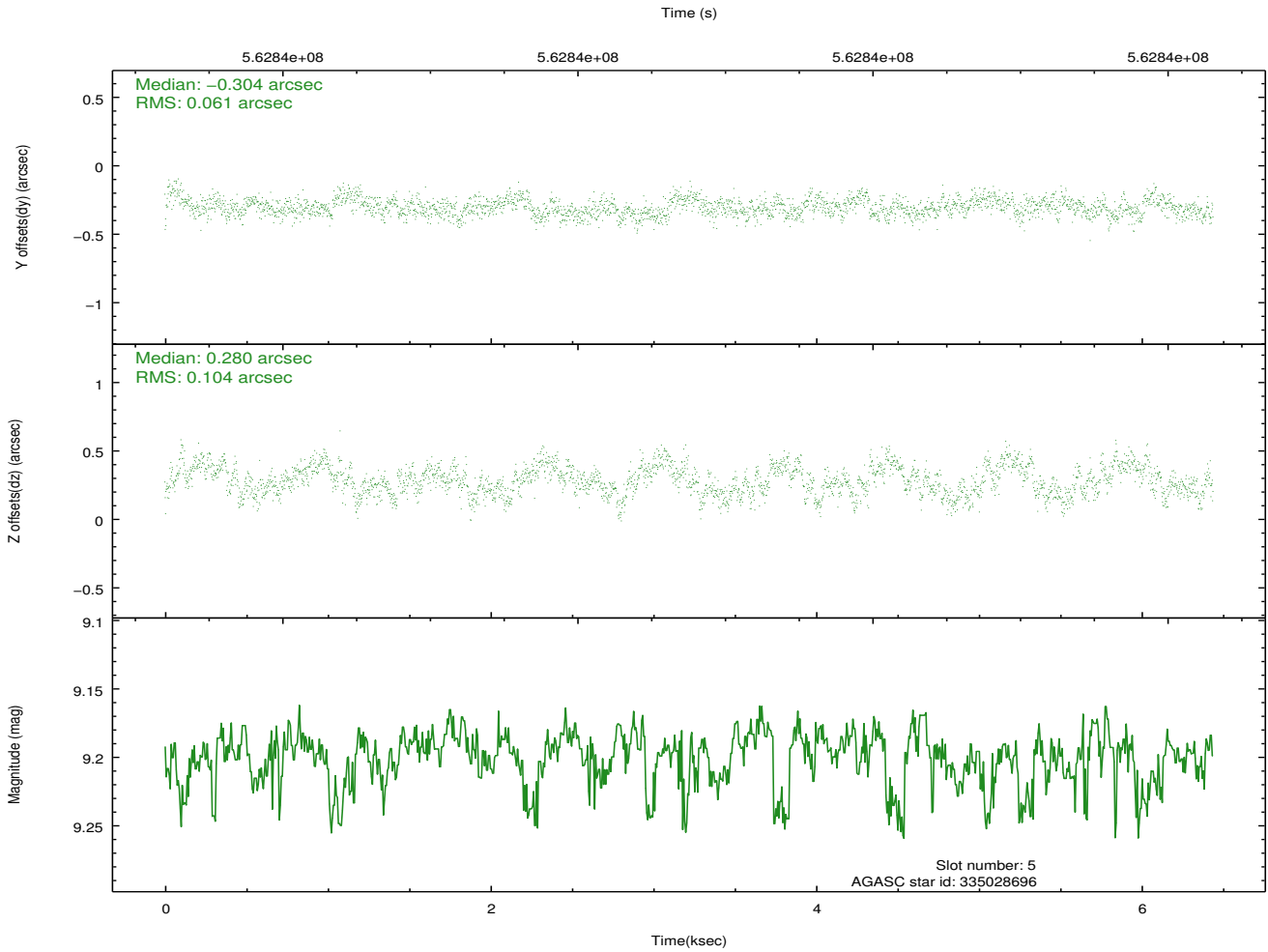
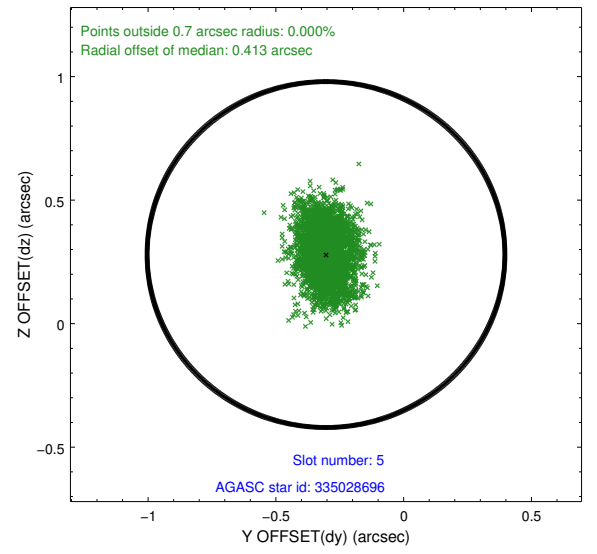
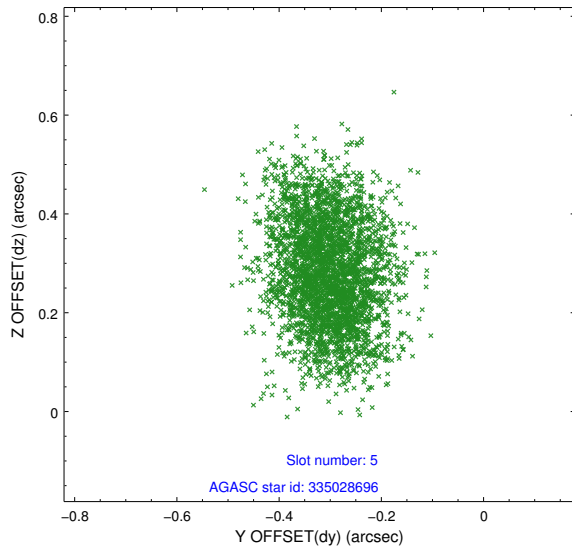
2.4.1 Slot 3



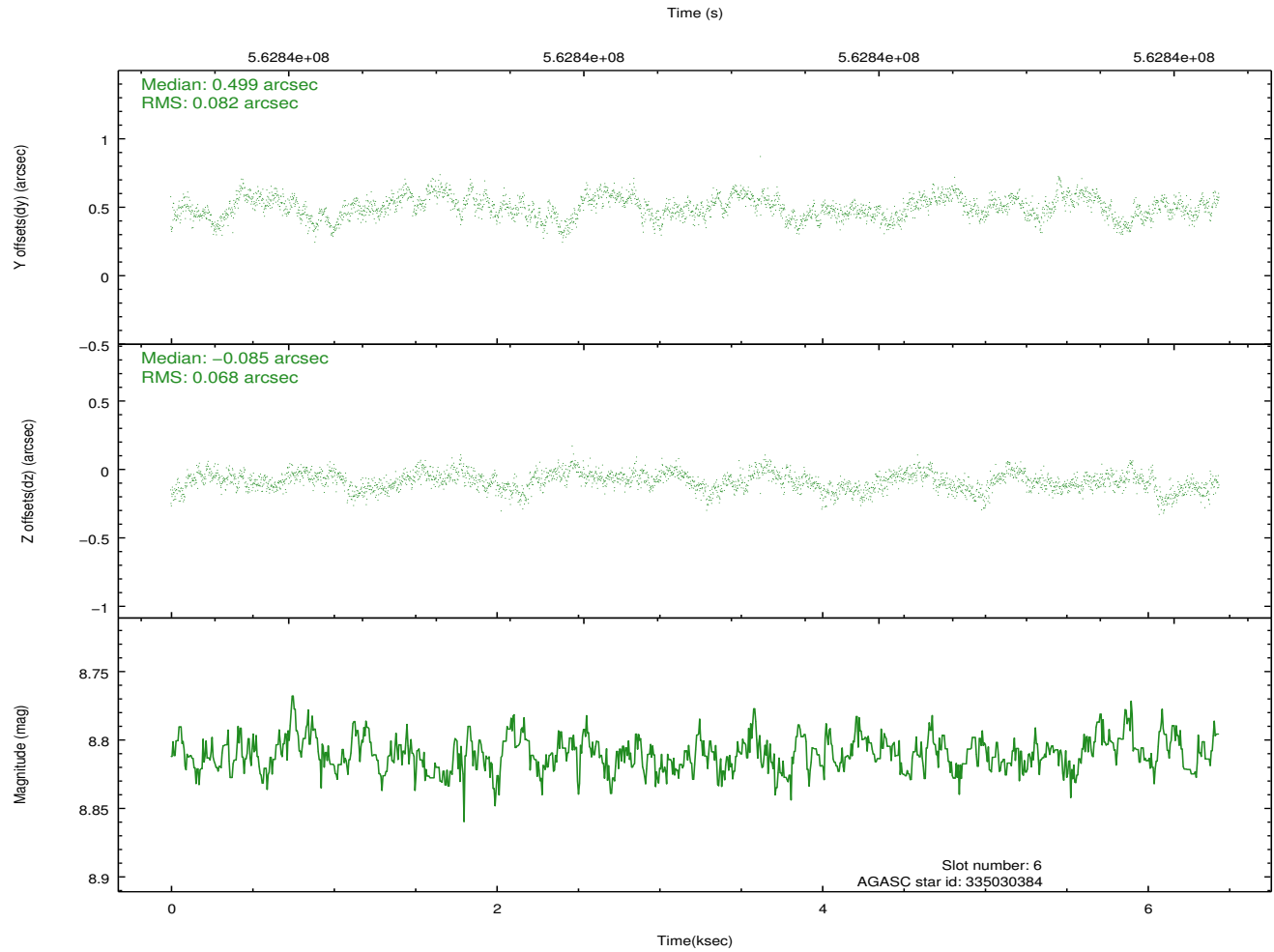
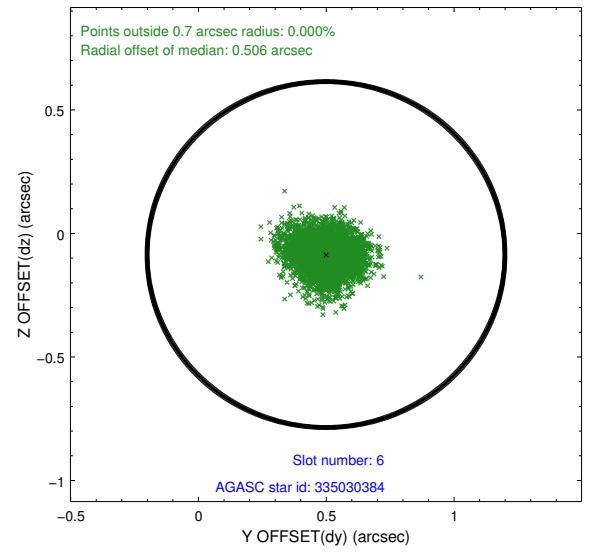
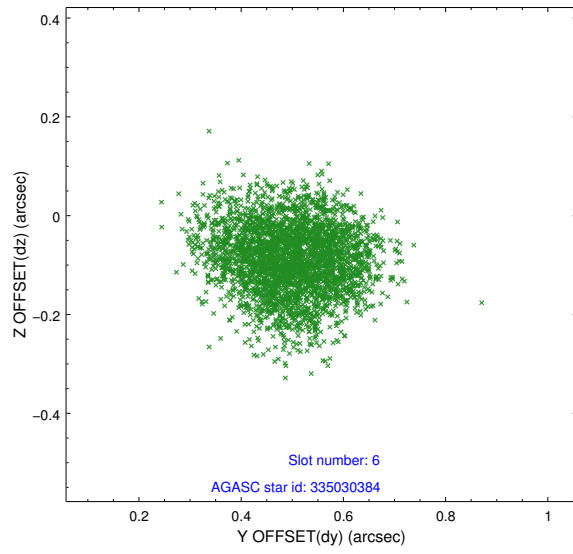
2.4.2 Slot 4



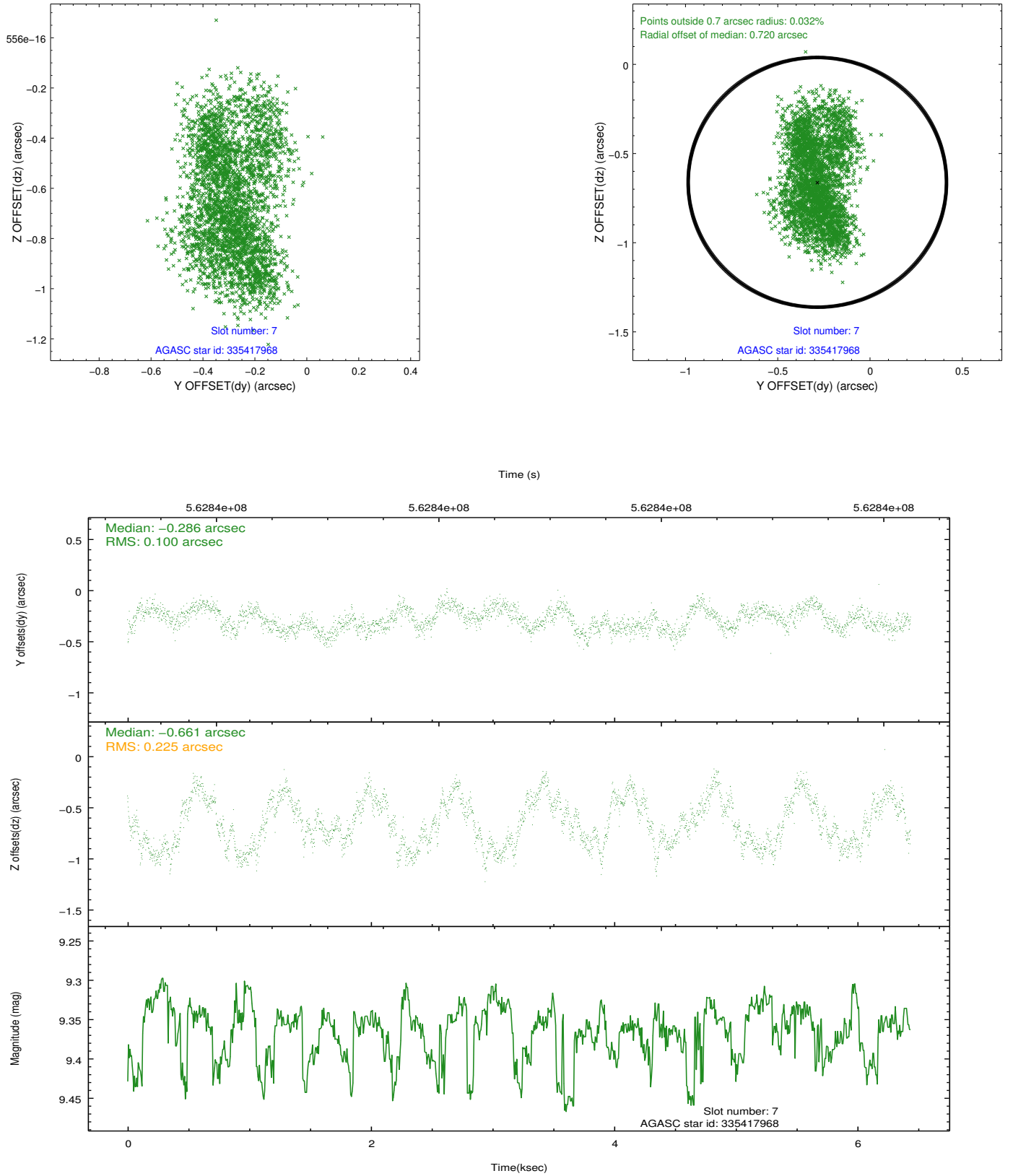
2.4.3 Slot 5



2.4.4 Slot 6

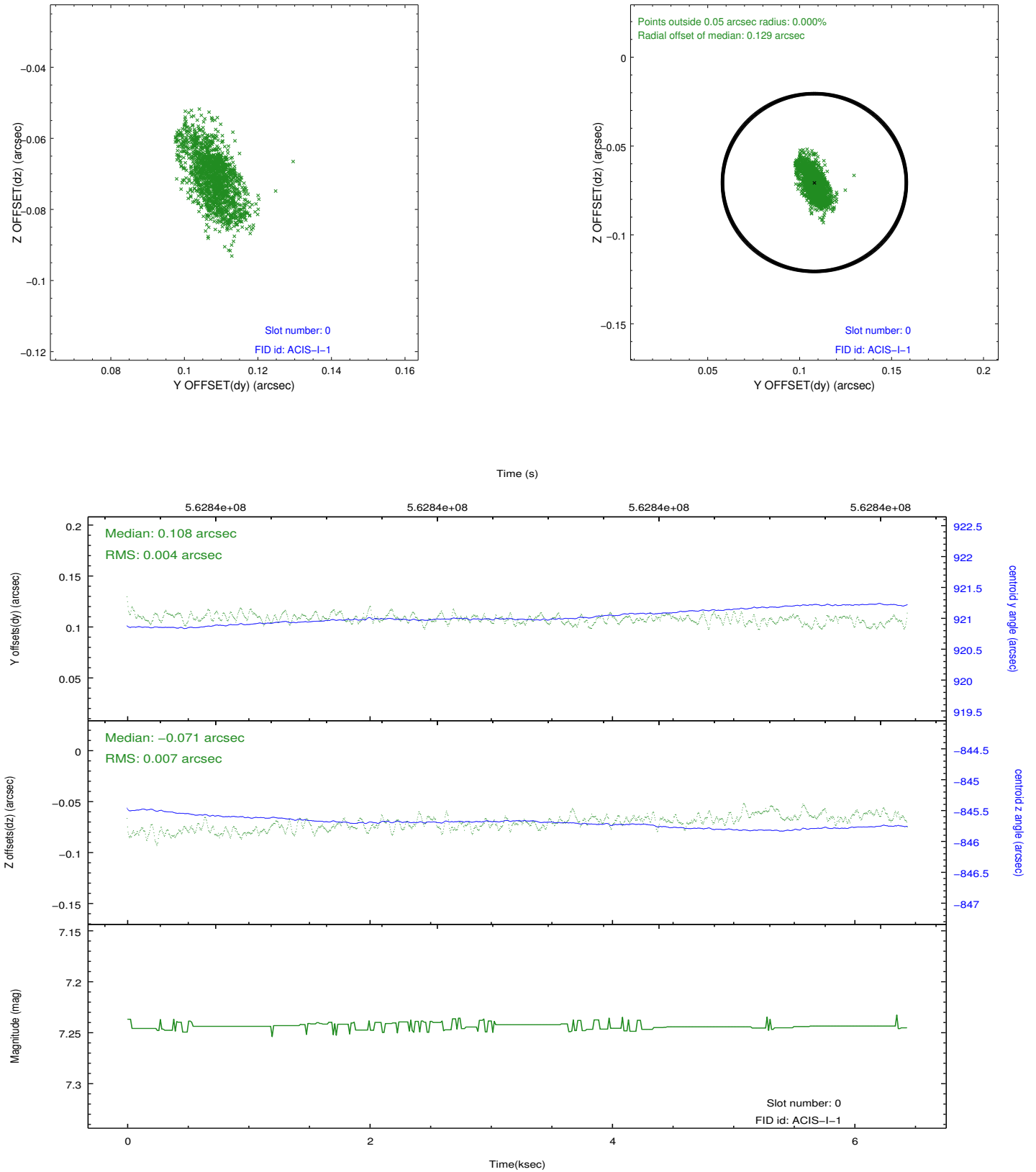


2.4.5 Slot 7

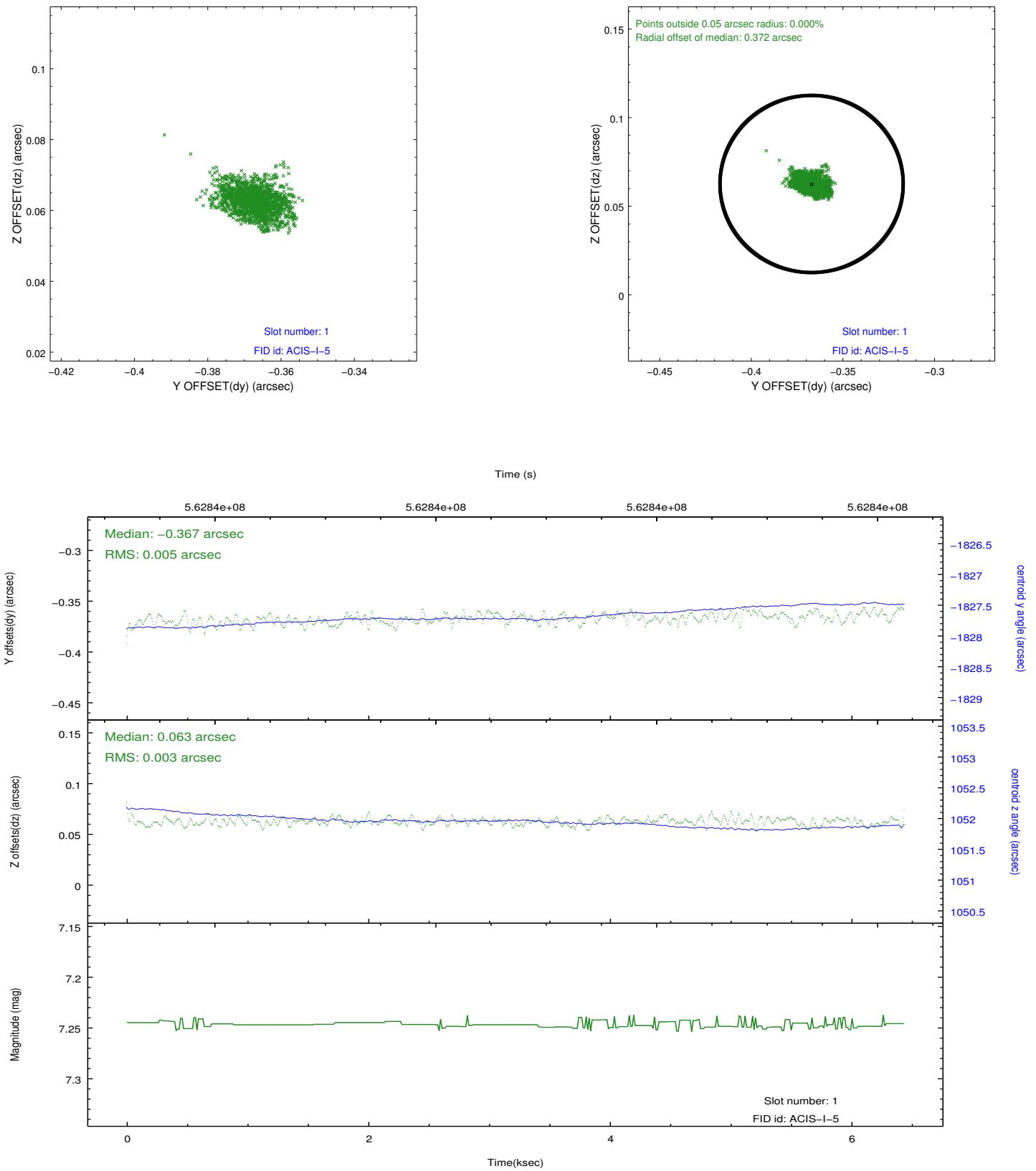


2.5 FID Slots

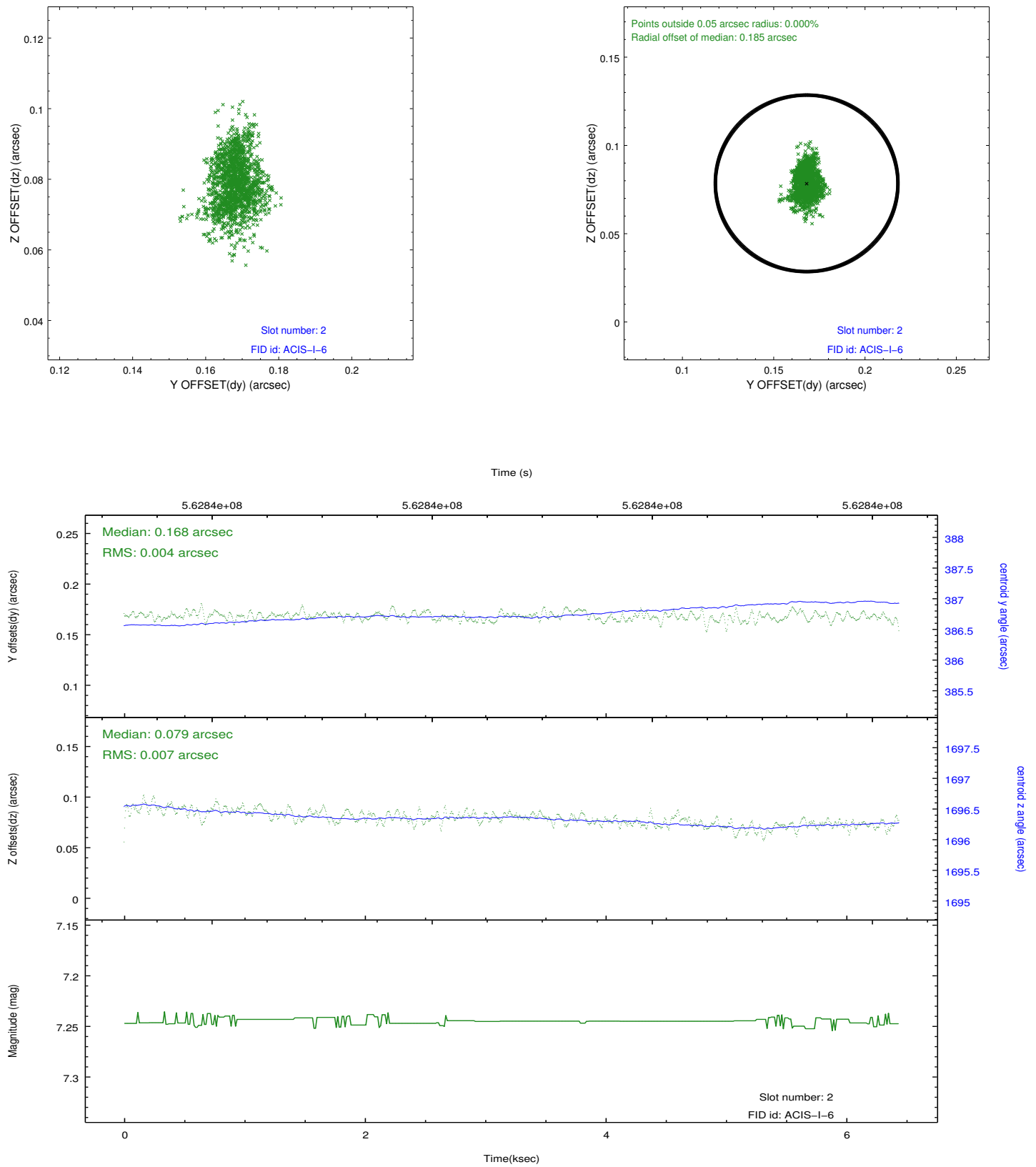
2.5.1 Slot 0



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	6.0064000895023

A.2 Comments