

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20855 - L2 Version 1
Chandra X-Ray Center

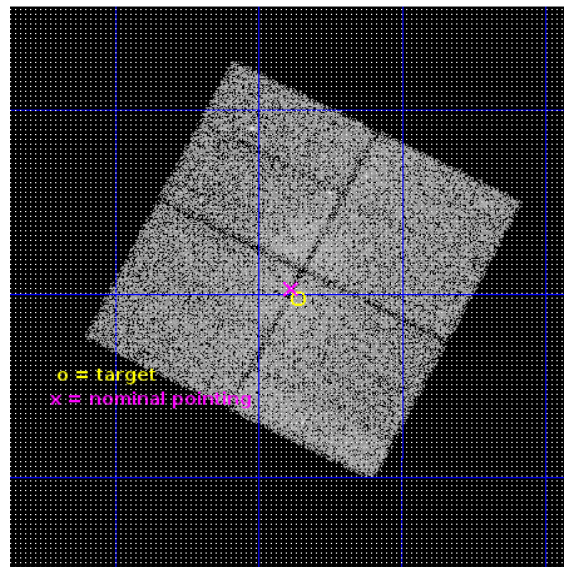
L2 Processing Date : Nov 23 2017

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1 Front

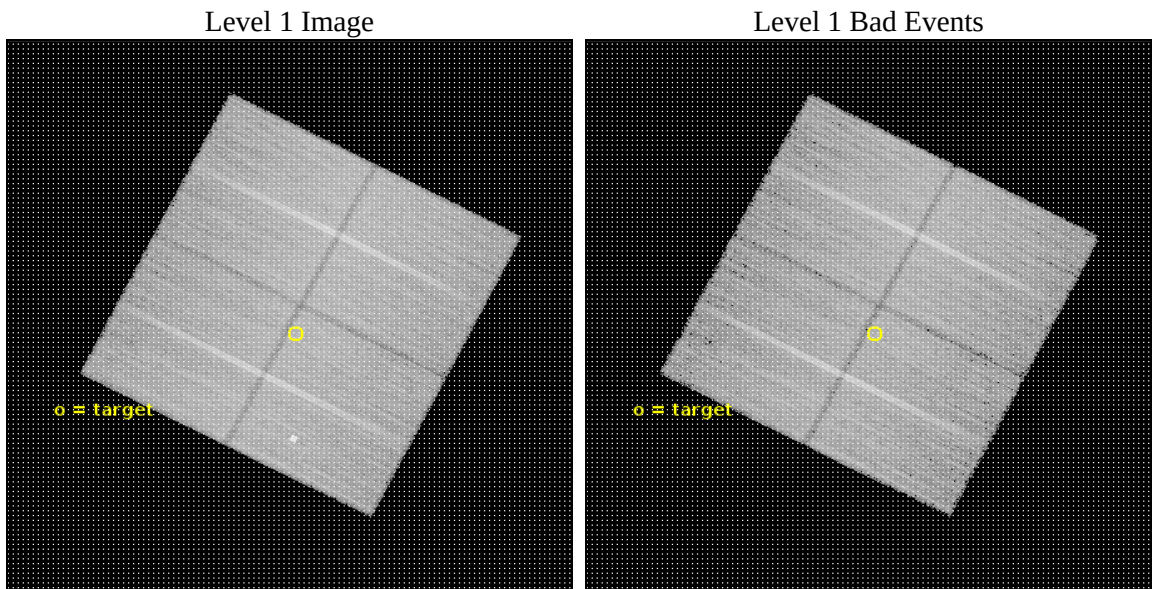
seq_num	801659	Sequence number
obs_id	20855	Observation id
title	A Violent merger in the cluster PLCKESZ G200.9-28.2: Relic formation caught in action?	Proposal title
observer	Daniel Wik	Principal investigator
object	PLCKESZ G200.9-28.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.589954	Observer's specified target RA [deg]
dec_targ	-3.004375	Observer's specified target Dec [deg]
ra_nom	72.596351552948	Nominal RA [deg]
dec_nom	-2.9955744424338	Nominal Dec [deg]
roll_nom	27.209022826182	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40076.759248257	Sum of GTIs [s]
livetime	39553.126884597	Livetime [s]
ontime0	40076.759238243	Sum of GTIs [s]
ontime1	40076.759248257	Sum of GTIs [s]
ontime2	40073.618238091	Sum of GTIs [s]
ontime3	40076.759248257	Sum of GTIs [s]
l2events	110302	Number of level 2 events



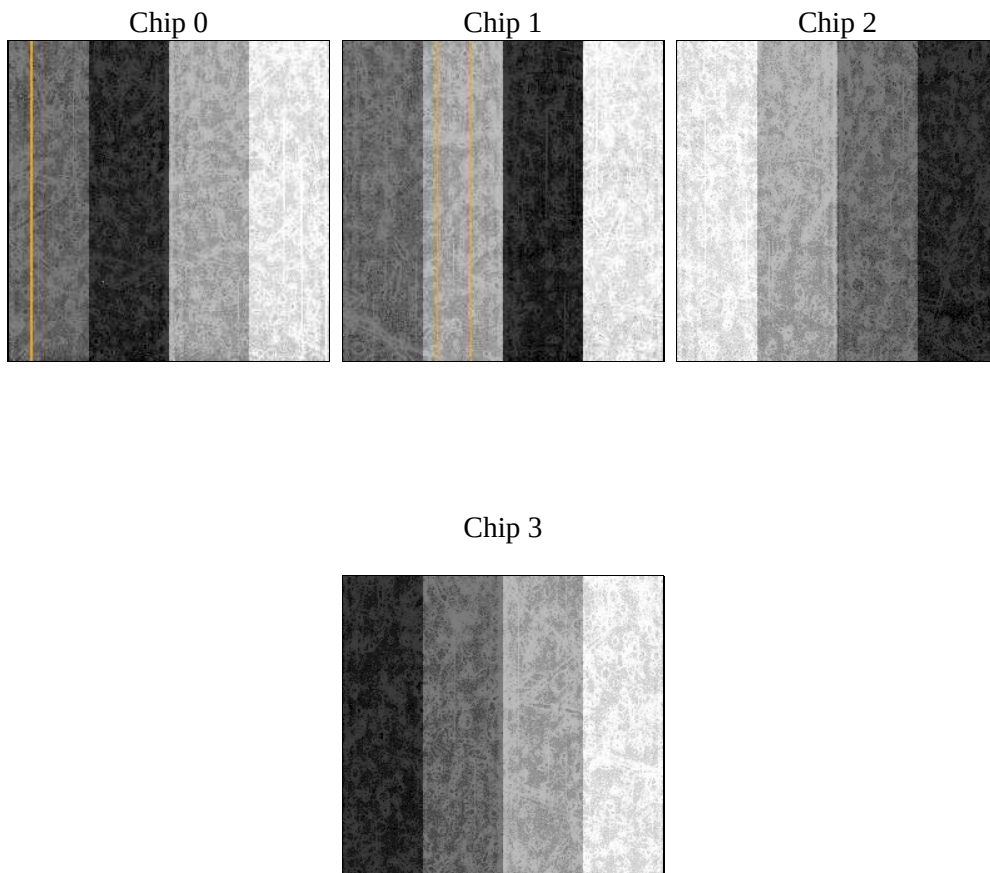
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	40076.759248257	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	40076.759238243	Sum of GTIs [s]
date	2017-11-23T14:36:00	Date and time of file creation	ontime1	40076.759248257	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40073.618238091	Sum of GTIs [s]
			ontime3	40076.759248257	Sum of GTIs [s]
			l1events	1125758	Number of level 1 events

2.1.4 Events

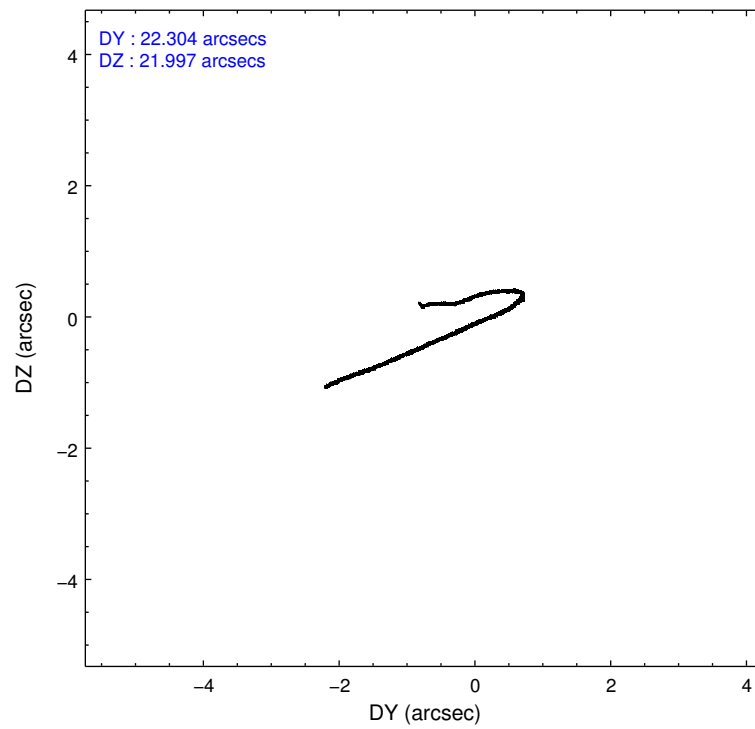
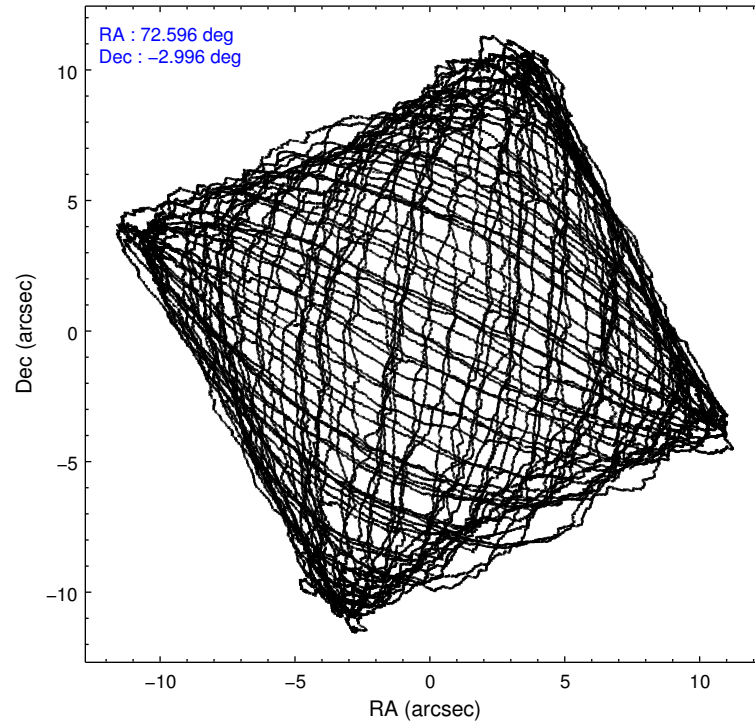
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	264847	280904	292507	287500
rejected events	231795	242819	259719	257019
rejected %	87%	86%	88%	89%

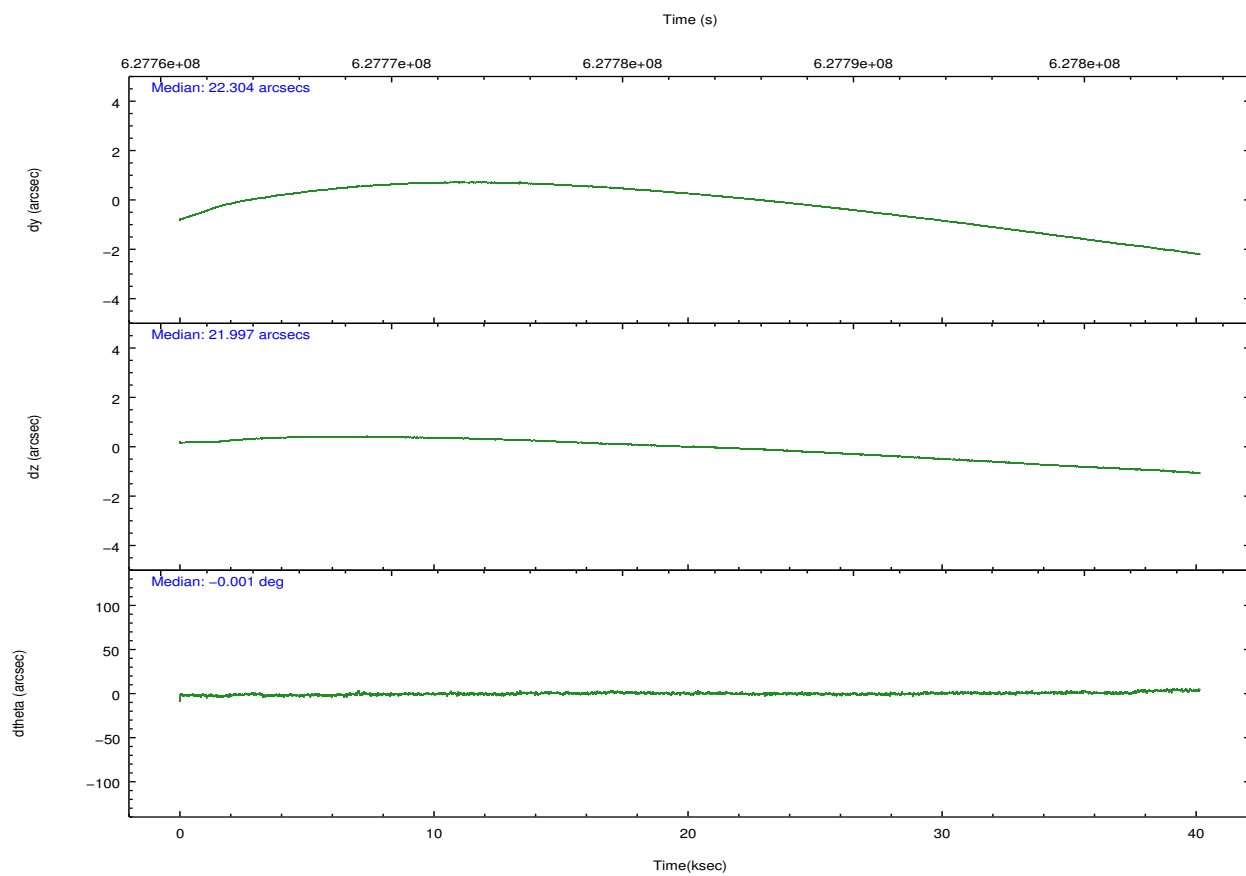
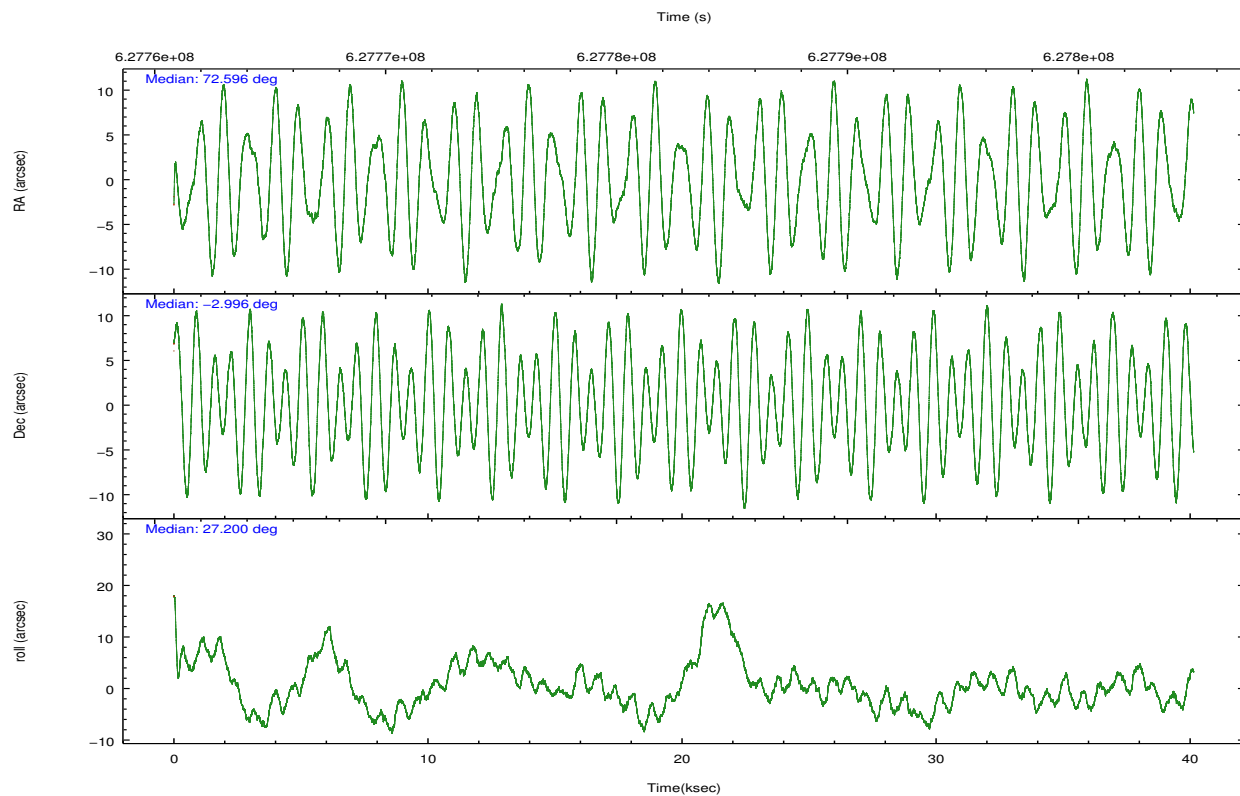
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11913	14891	12413	10769
	4%	5%	4%	3%
grade 1 events	163	190	188	159
	0%	0%	0%	0%
grade 2 events	8095	8693	7932	6709
	3%	3%	2%	2%
grade 3 events	3295	3224	3162	3223
	1%	1%	1%	1%
grade 4 events	3044	3279	3223	3229
	1%	1%	1%	1%
grade 5 events	12309	12791	11549	13830
	4%	4%	3%	4%
grade 6 events	6708	8006	6065	6556
	2%	2%	2%	2%
grade 7 events	219320	229830	247975	243025
	82%	81%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	72.581462	72.59635155294841	CCD I2 on	Y	Y
[deg] Pointing Dec	-3.018841	-2.995574442433776	CCD I3 on	Y	Y
[deg] Pointing Roll	26.999549	27.20902282618224	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	N	N
[mm] SIM translation stage pos	-239.442463	-239.4407604828604	CCD S3 on	O1	N
[mm] SIM translation stage offset	5.85	5.848307479930696	CCD S4 on	N	N
[s] Observation start time (MET)	627762968.184000	627761929.49038	CCD S5 on	N	N
Observation start date	2017-11-22T18:34:59	2017-11-22T18:18:49	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	627802968.184000	627803885.81784	On-chip summing requested	N	N
Observation end date	2017-11-23T05:41:39	2017-11-23T05:58:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



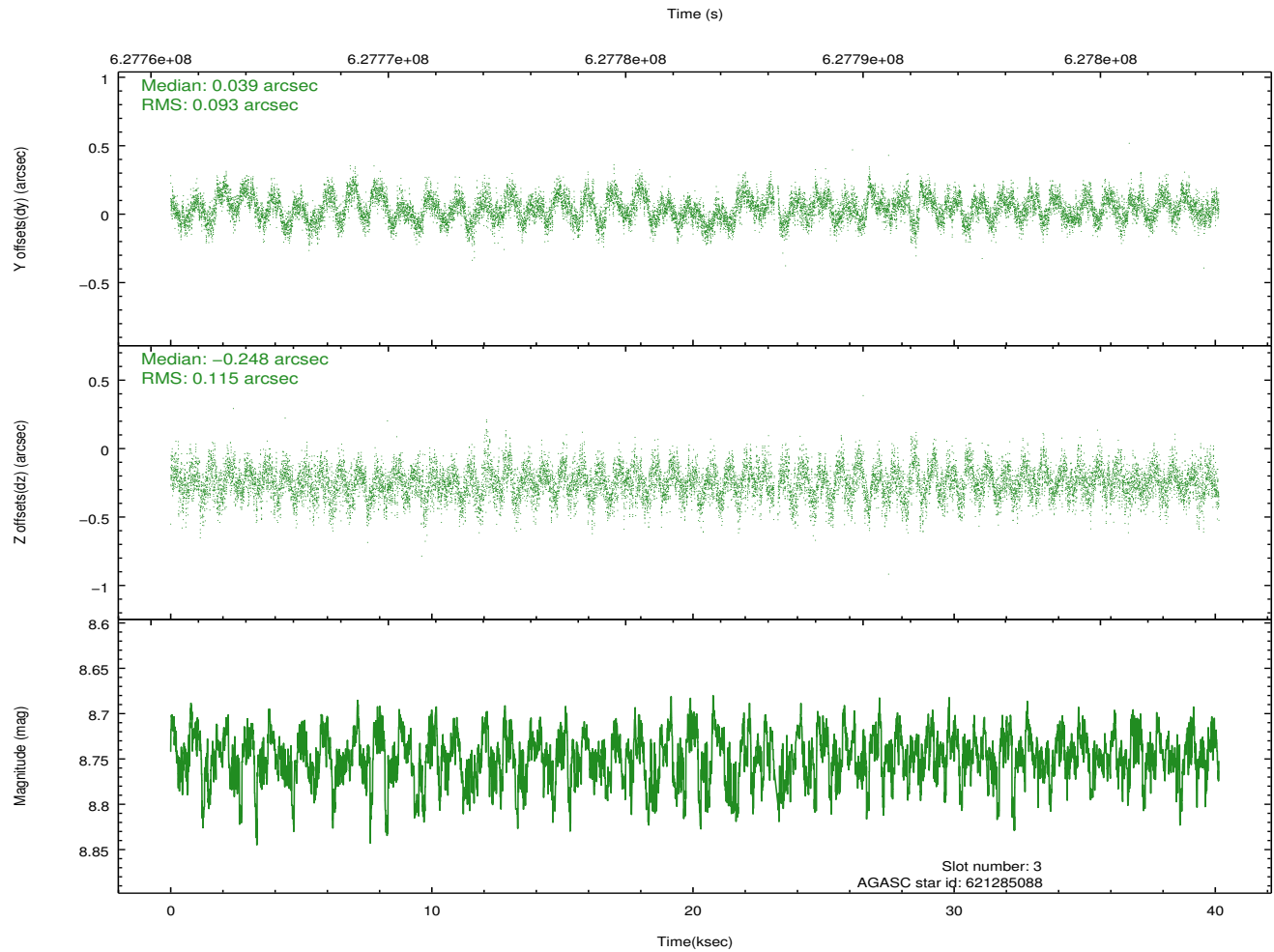
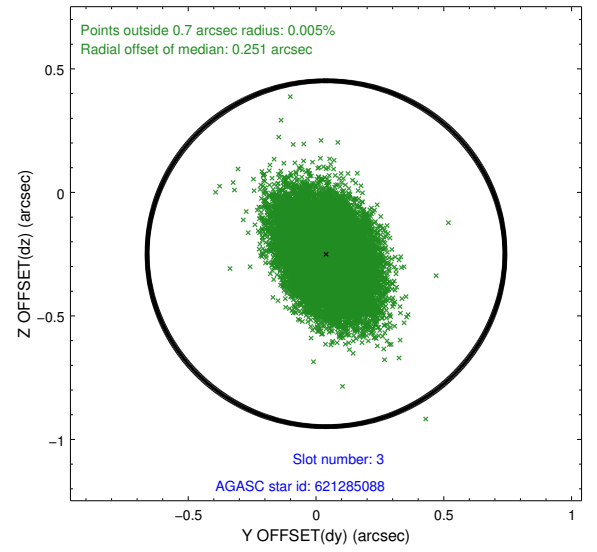
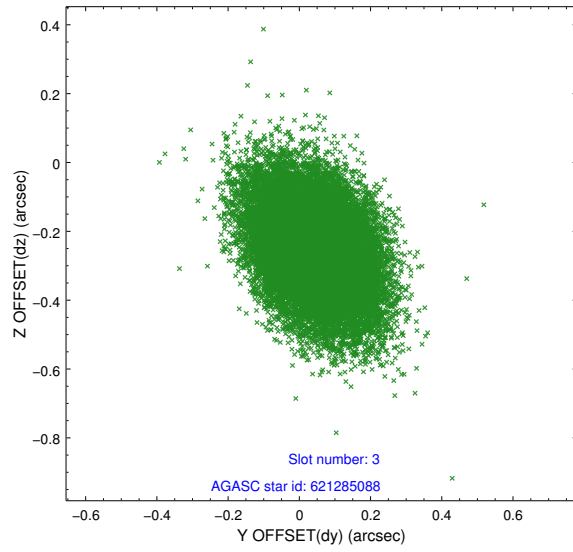


Slot Statistics

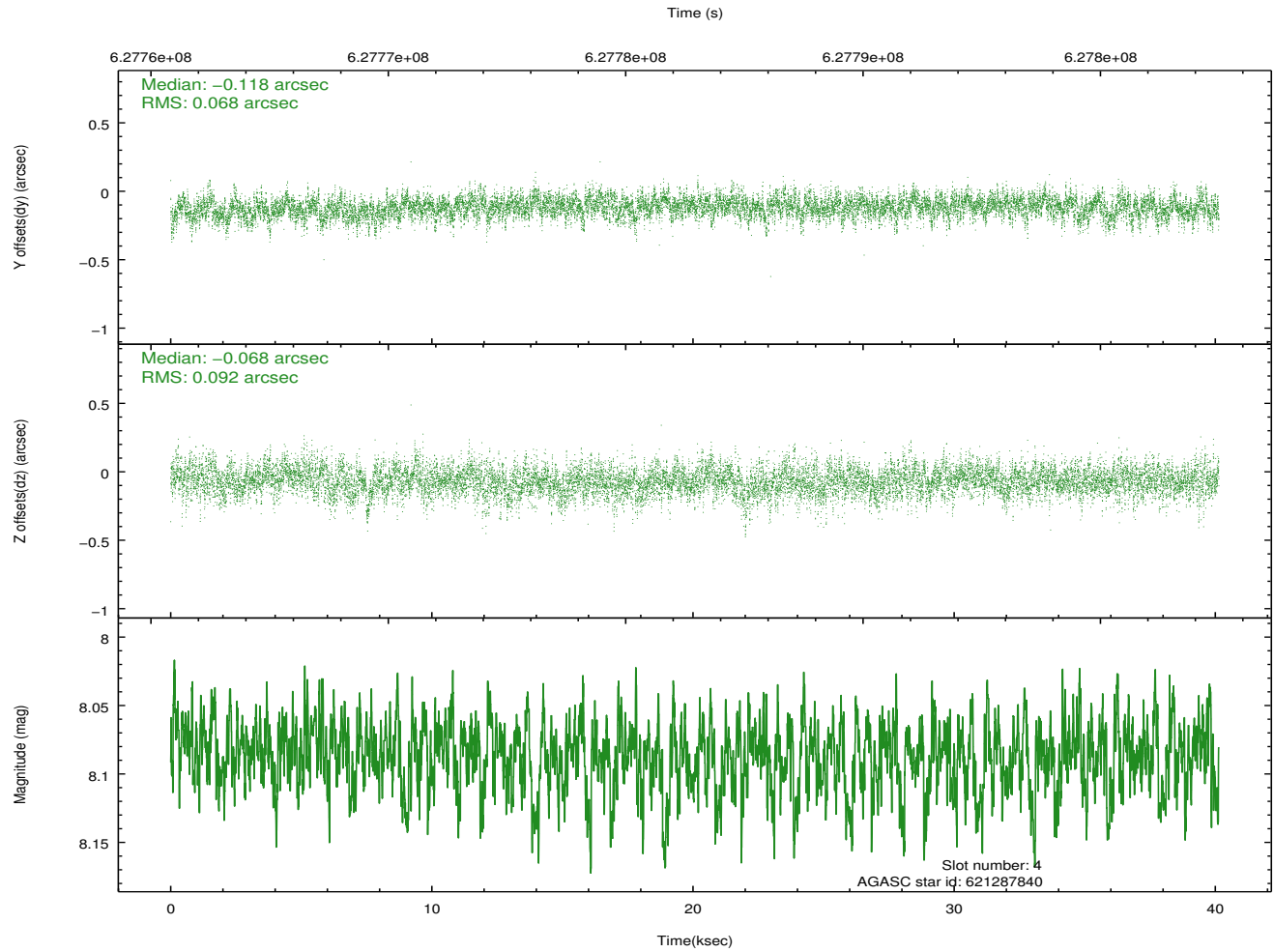
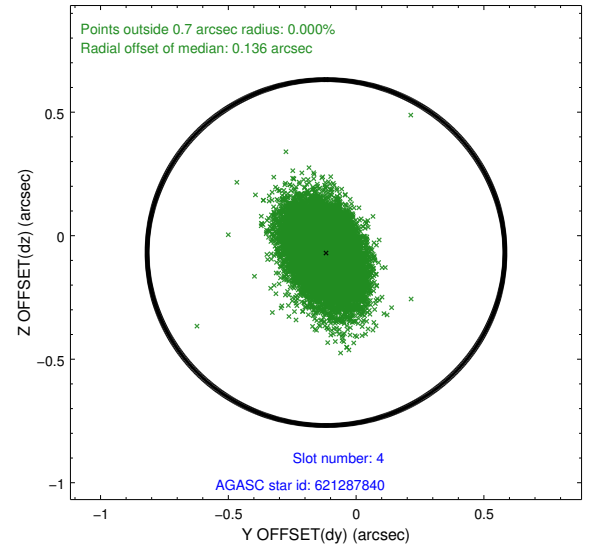
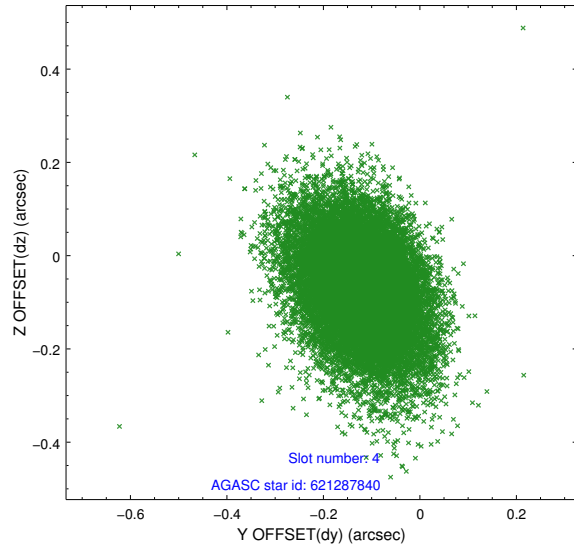
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.09	9789	-0.355	-0.199	0.024	0.037	0.000000	0.000000	-776.92	-732.74
1	FID		ACIS-I-4	7.17	9788	0.414	0.178	0.022	0.033	0.000000	0.000000	2137.97	1173.78
2	FID		ACIS-I-6	7.16	9791	-0.161	0.086	0.014	0.025	0.000000	0.000000	383.13	1816.67
3	GUIDE	used	621285088	8.75	19502	0.039	-0.248	0.155	0.260	72.185532	-2.636590	-644.37	1871.86
4	GUIDE	used	621287840	8.09	19573	-0.118	-0.068	0.117	0.206	72.904853	-2.949814	1149.00	-306.28
5	GUIDE	used	621289504	8.89	19558	-0.040	0.205	0.153	0.264	73.076403	-3.394128	972.04	-2011.23
6	GUIDE	used	621817120	8.68	19567	0.486	0.716	0.132	0.229	72.343289	-3.782403	-2009.09	-2060.55
7	GUIDE	used	621284808	8.61	19499	-0.362	-0.603	0.132	0.224	72.478666	-2.477405	555.12	1904.01

2.4 Star Slots

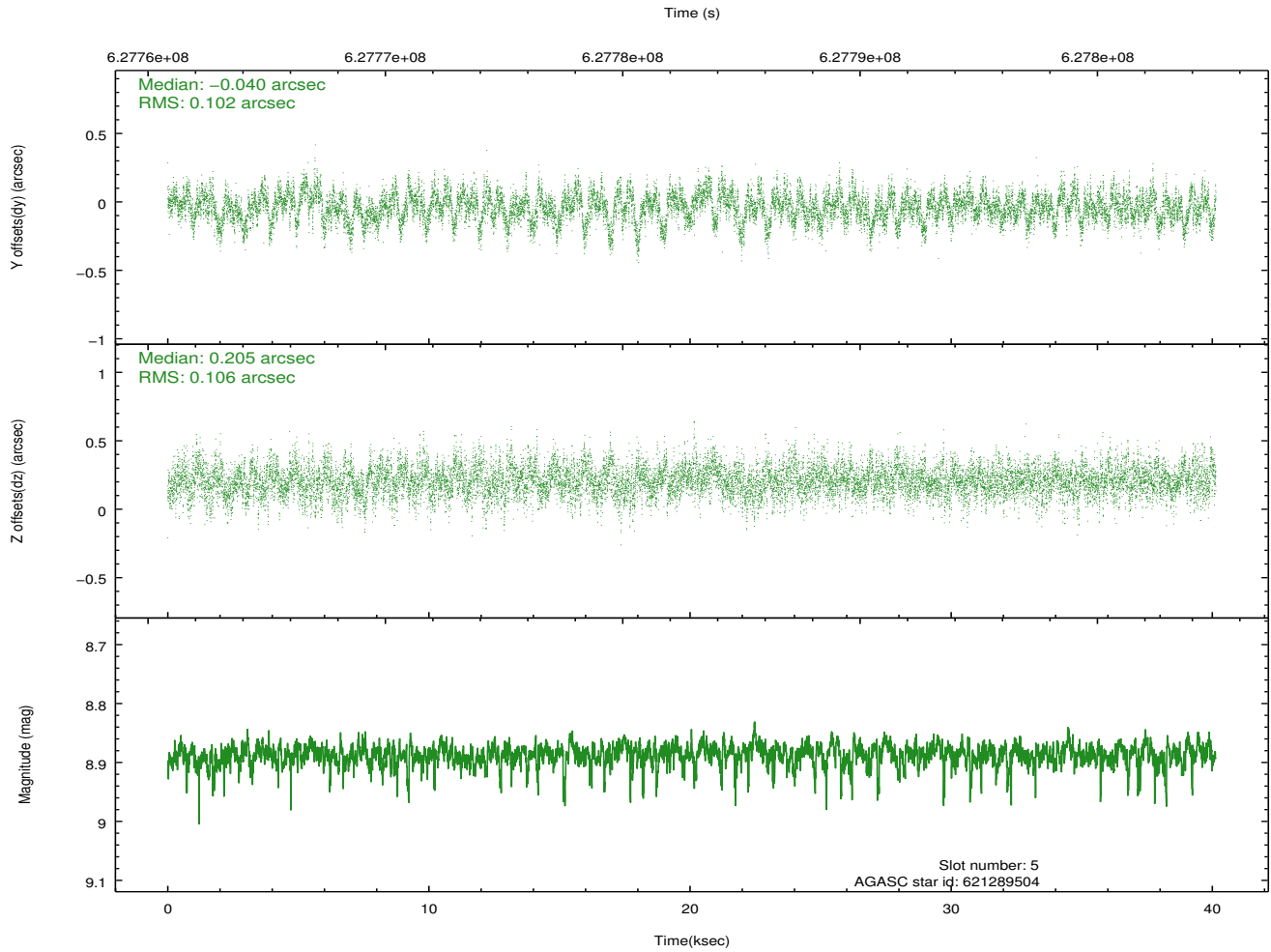
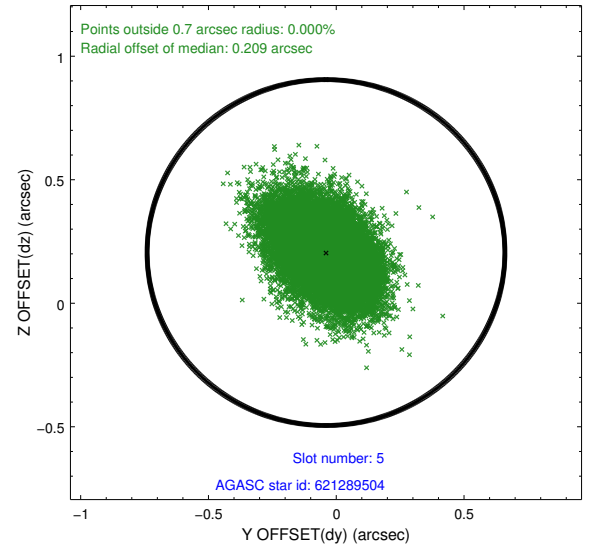
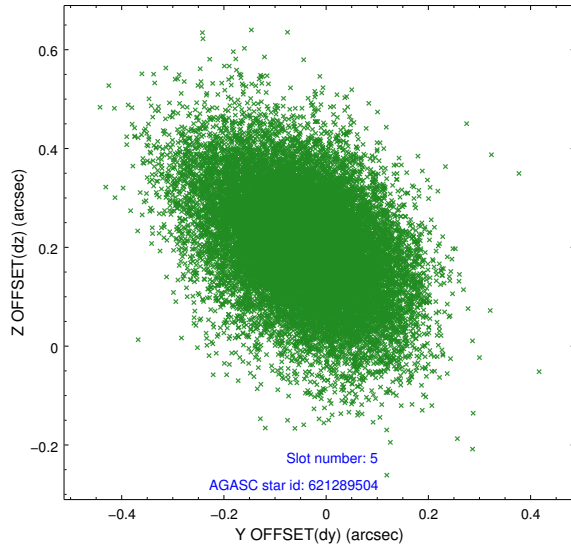
2.4.1 Slot 3



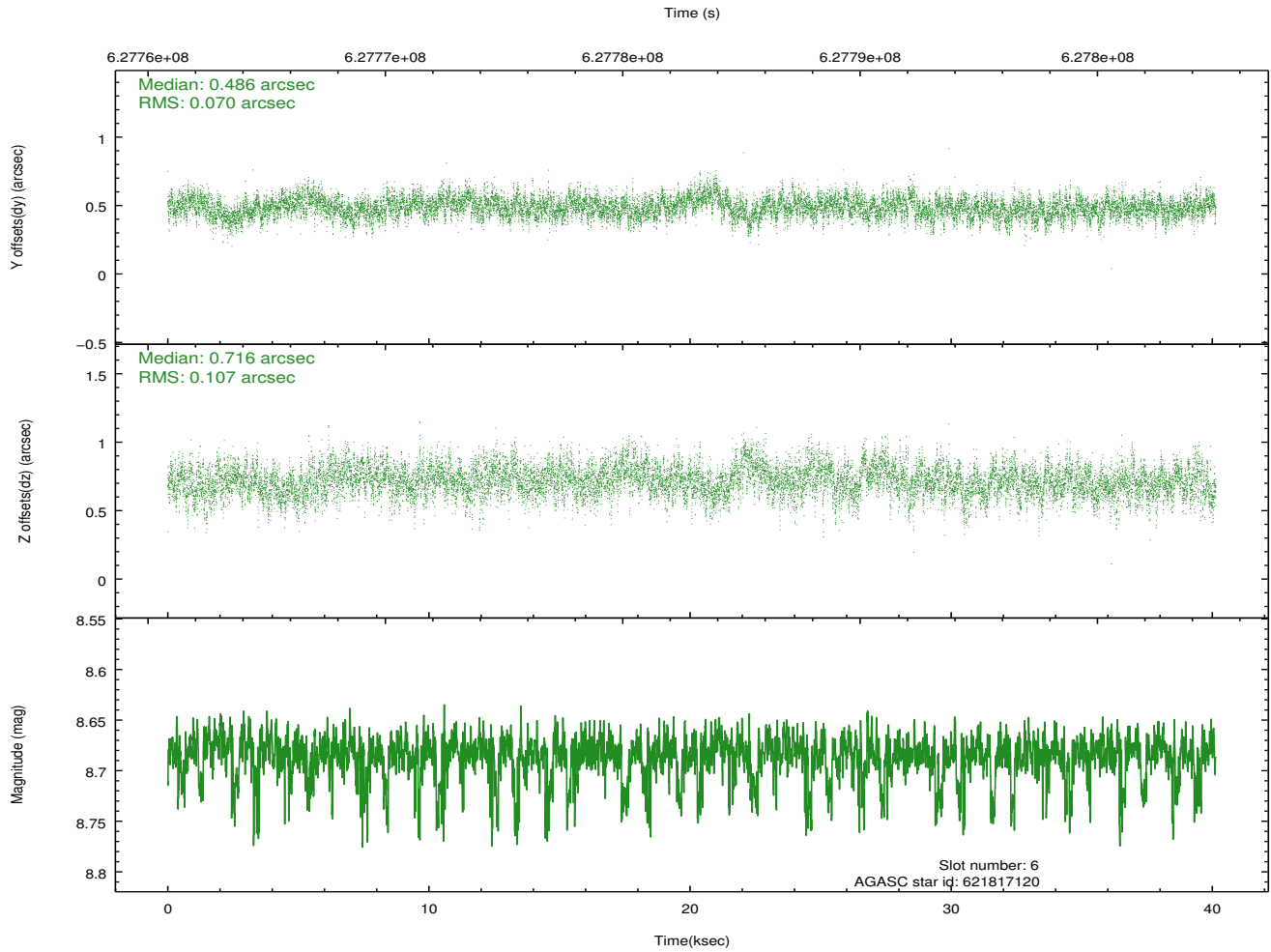
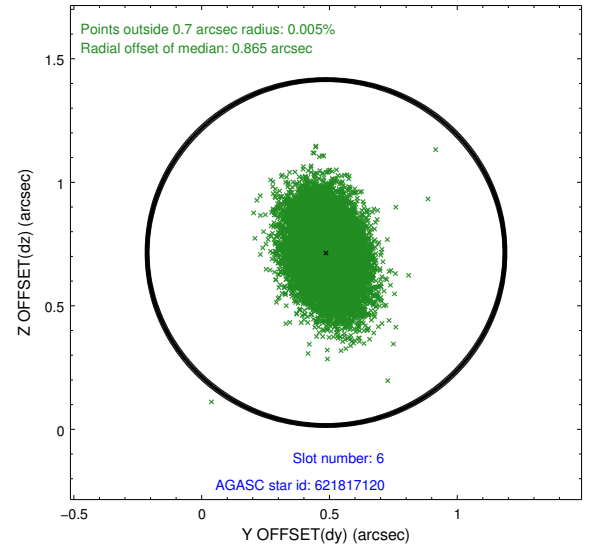
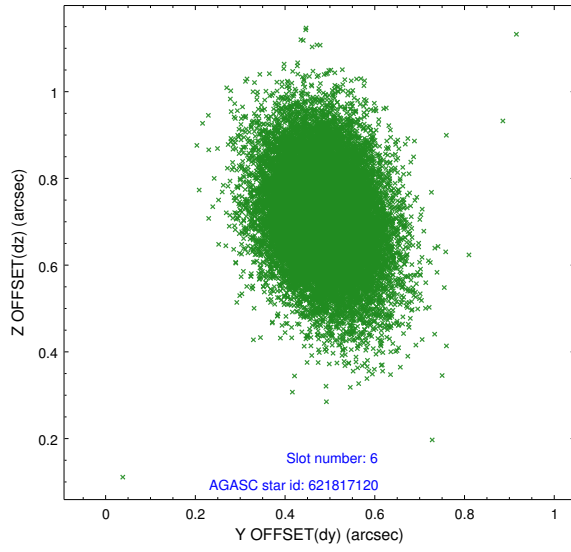
2.4.2 Slot 4



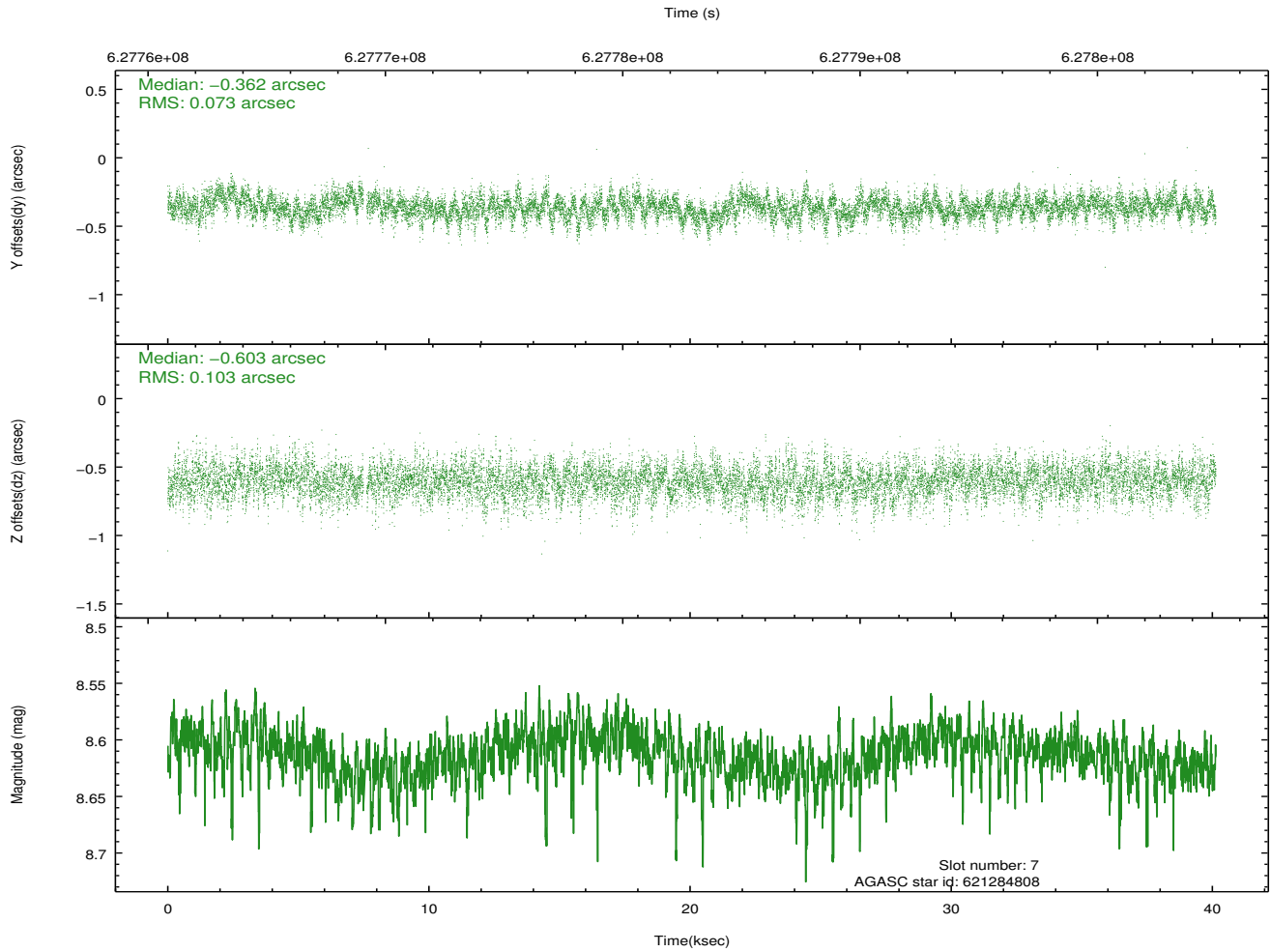
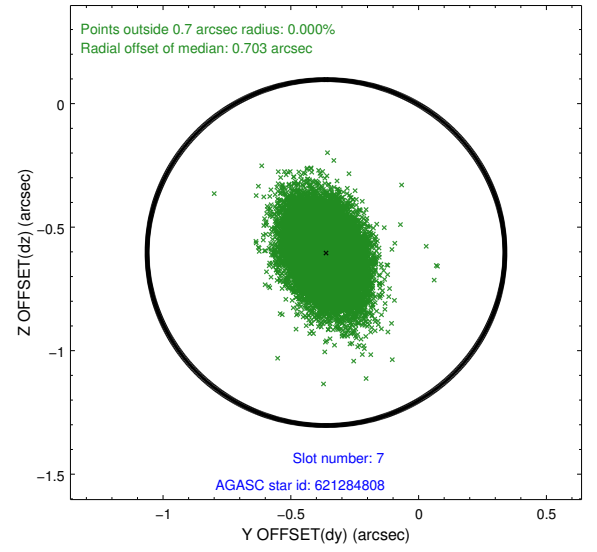
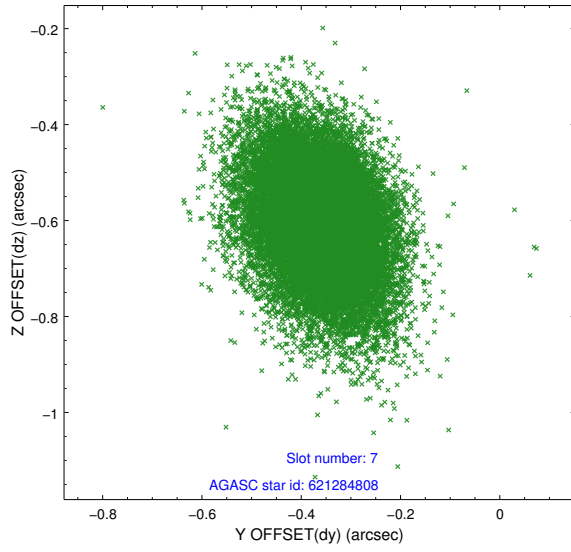
2.4.3 Slot 5



2.4.4 Slot 6

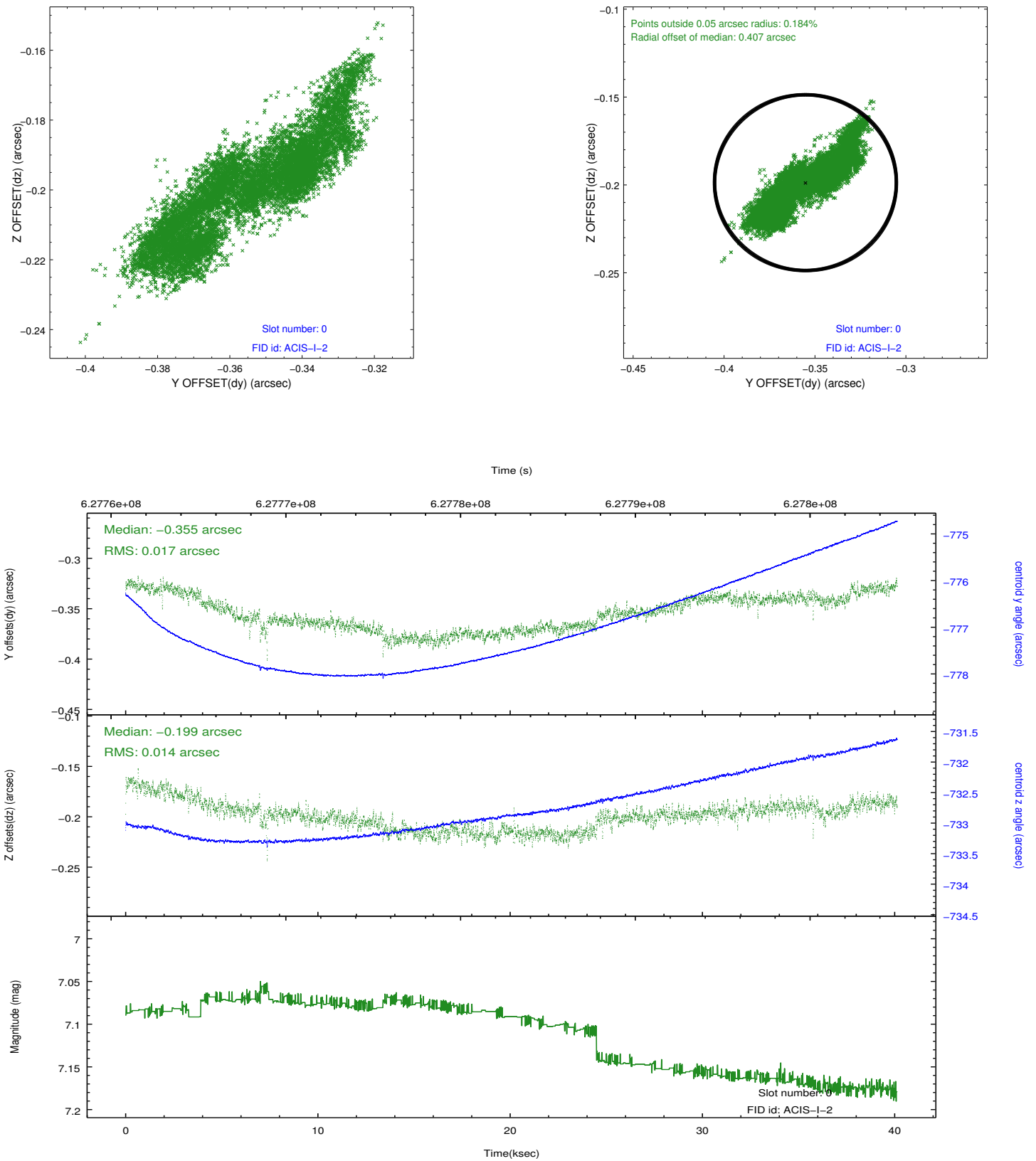


2.4.5 Slot 7

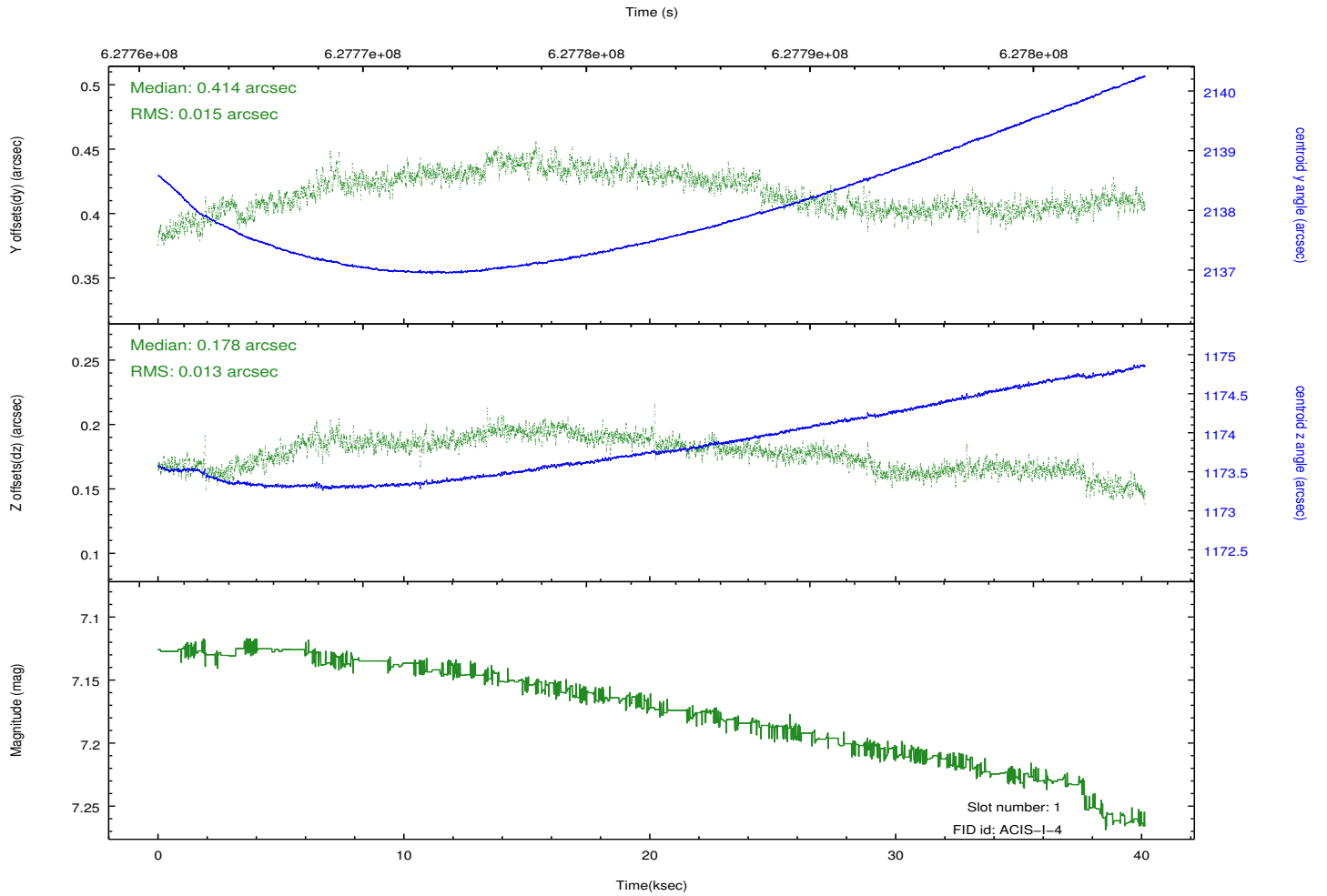
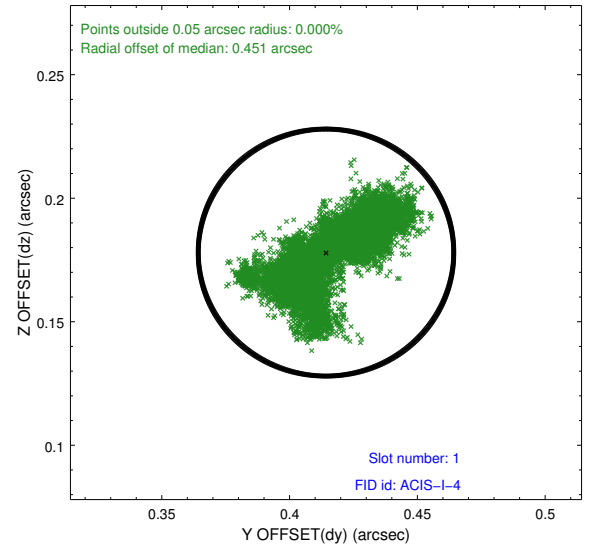
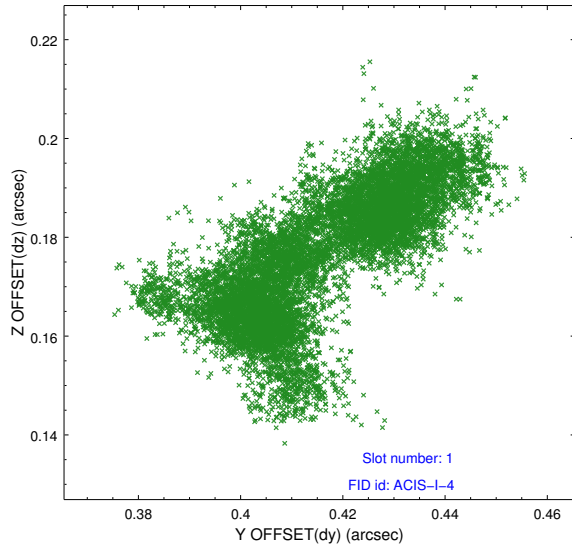


2.5 FID Slots

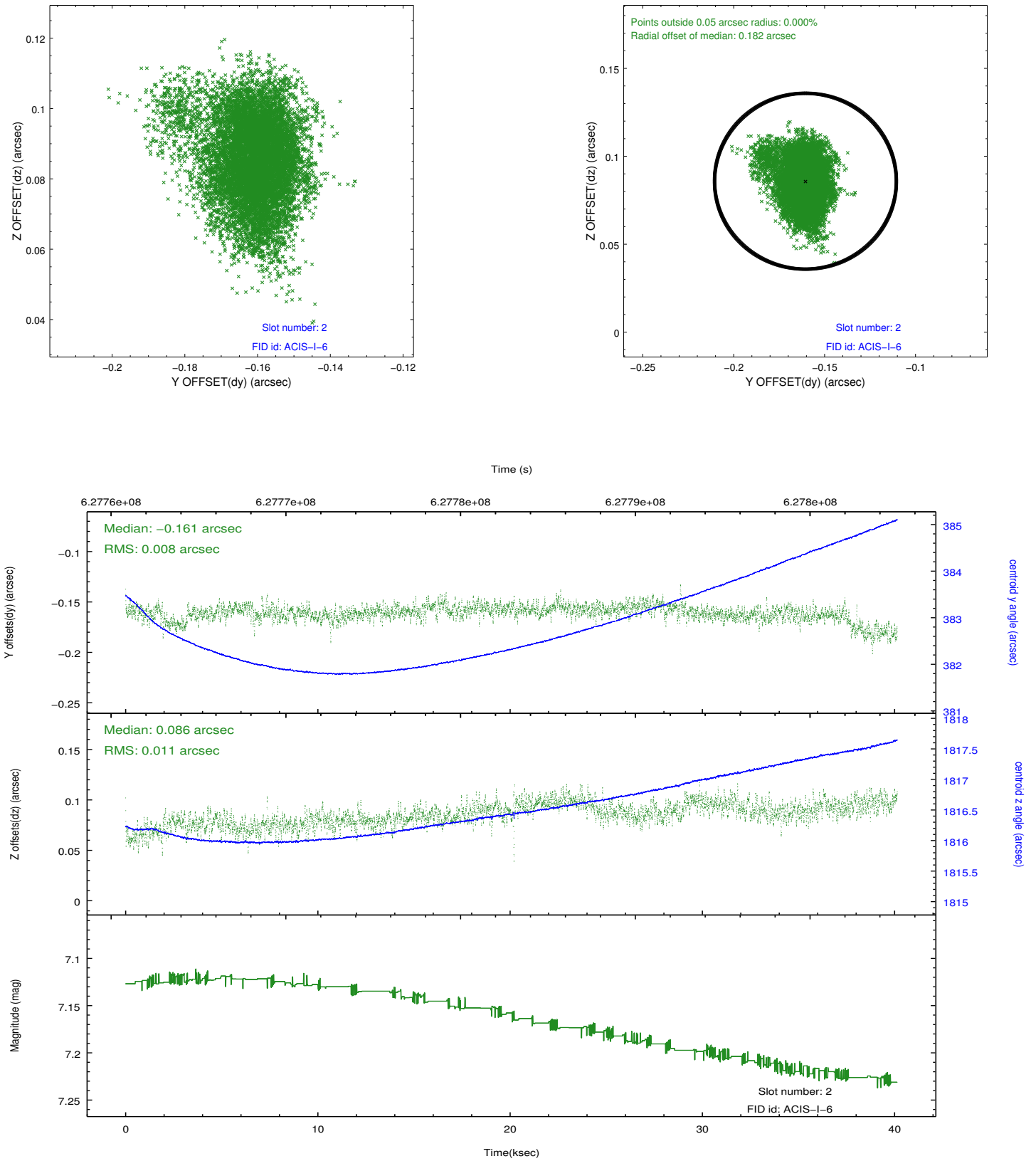
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.11.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.076759248257

A.2 Comments

Optional chip S3 not included.