

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18888 - L2 Version 1
Chandra X-Ray Center

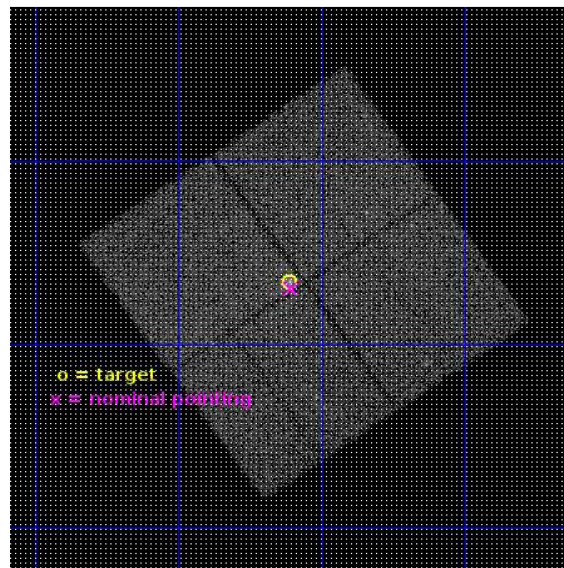
L2 Processing Date : Aug 1 2016

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1 Front

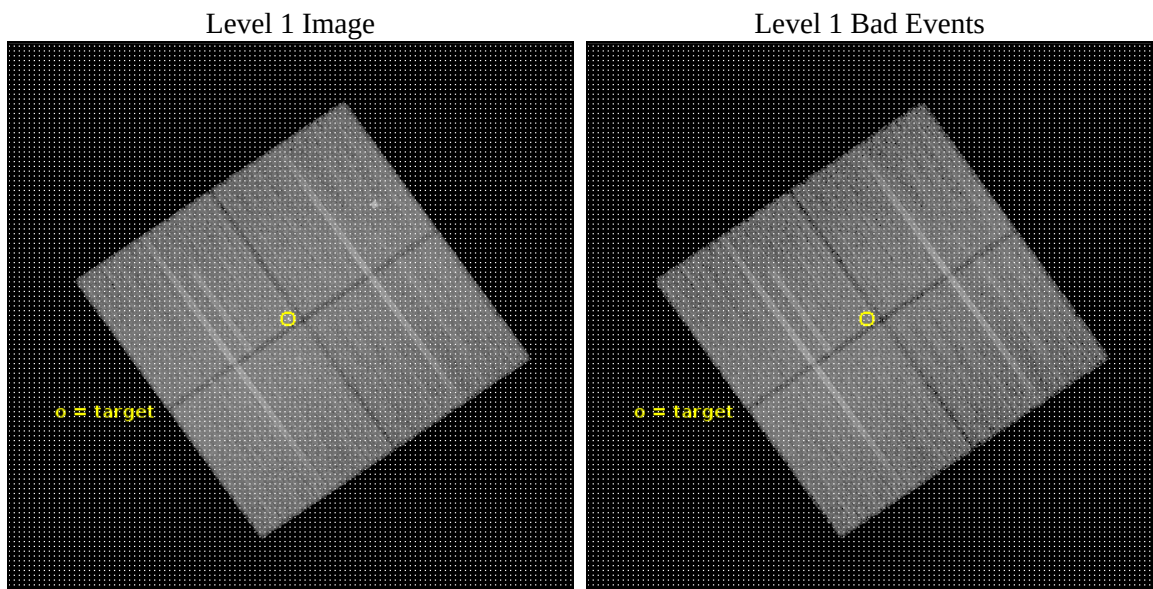
seq_num	201028	Sequence number
obs_id	18888	Observation id
title	Into the Maelstrom of W43	Proposal title
observer	Leisa Townsley	Principal investigator
object	W43-Main	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.902917	Observer's specified target RA [deg]
dec_targ	-1.942639	Observer's specified target Dec [deg]
ra_nom	281.90140911119	Nominal RA [deg]
dec_nom	-1.9492434821743	Nominal Dec [deg]
roll_nom	235.20865253757	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45569.959280372	Sum of GTIs [s]
livetime	44974.554214258	Livetime [s]
ontime0	45573.100350618	Sum of GTIs [s]
ontime1	45573.100350618	Sum of GTIs [s]
ontime2	45569.959290385	Sum of GTIs [s]
ontime3	45569.959280372	Sum of GTIs [s]
l2events	110060	Number of level 2 events



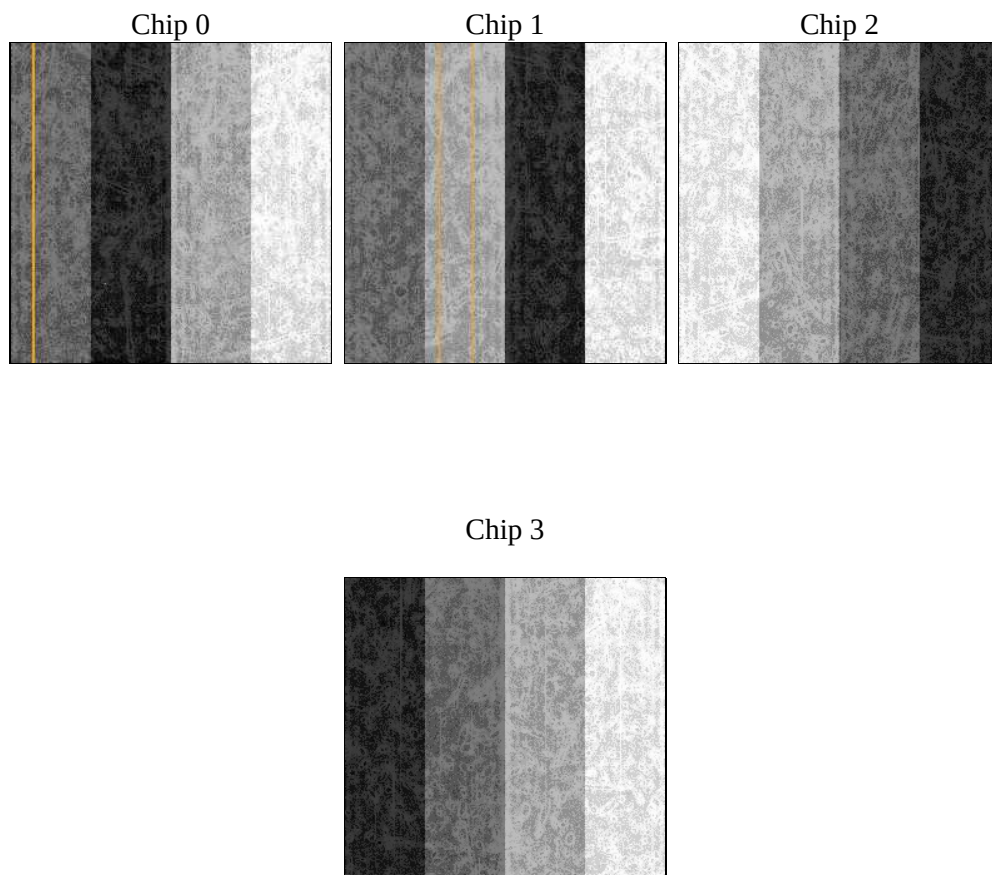
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45500.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	45569.959280372	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	45573.100350618	Sum of GTIs [s]
date	2016-08-01T16:47:55	Date and time of file creation	ontime1	45573.100350618	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	45569.959290385	Sum of GTIs [s]
			ontime3	45569.959280372	Sum of GTIs [s]
			l1events	1106785	Number of level 1 events

2.1.4 Events

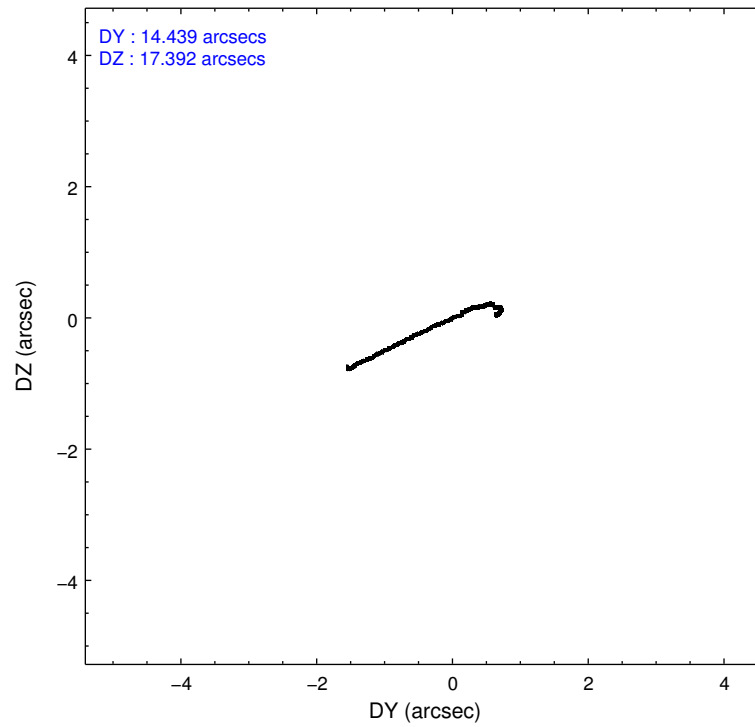
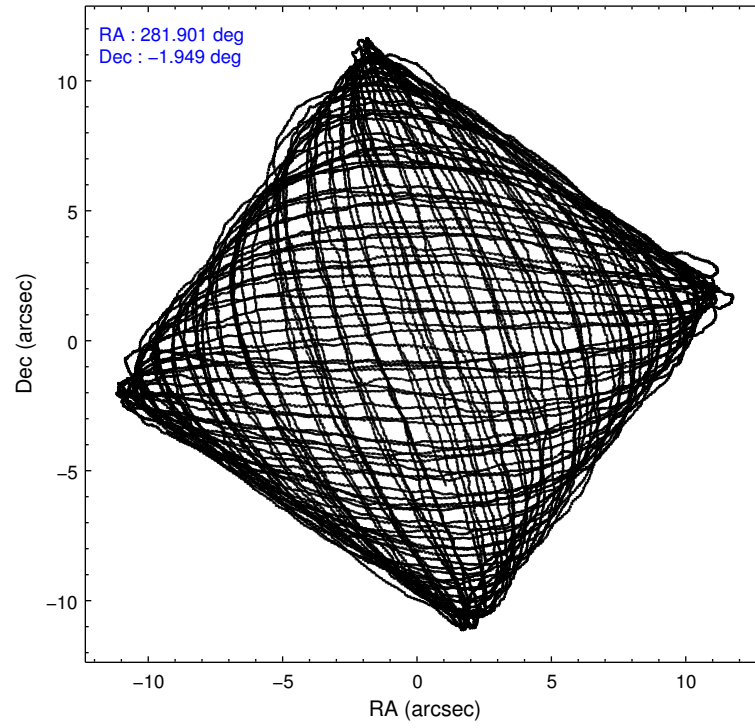
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	259208	264548	297284	285745
rejected events	227131	228280	265545	251544
rejected %	87%	86%	89%	88%

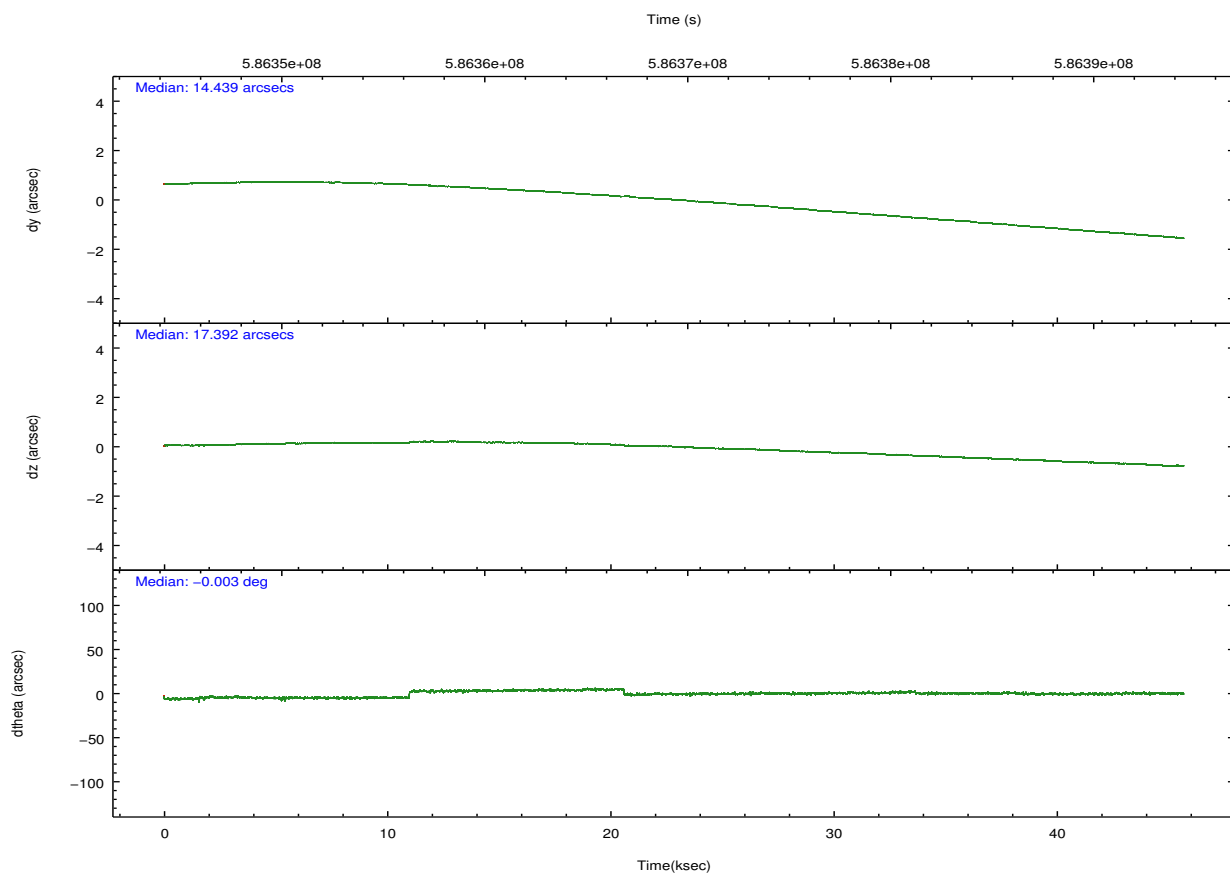
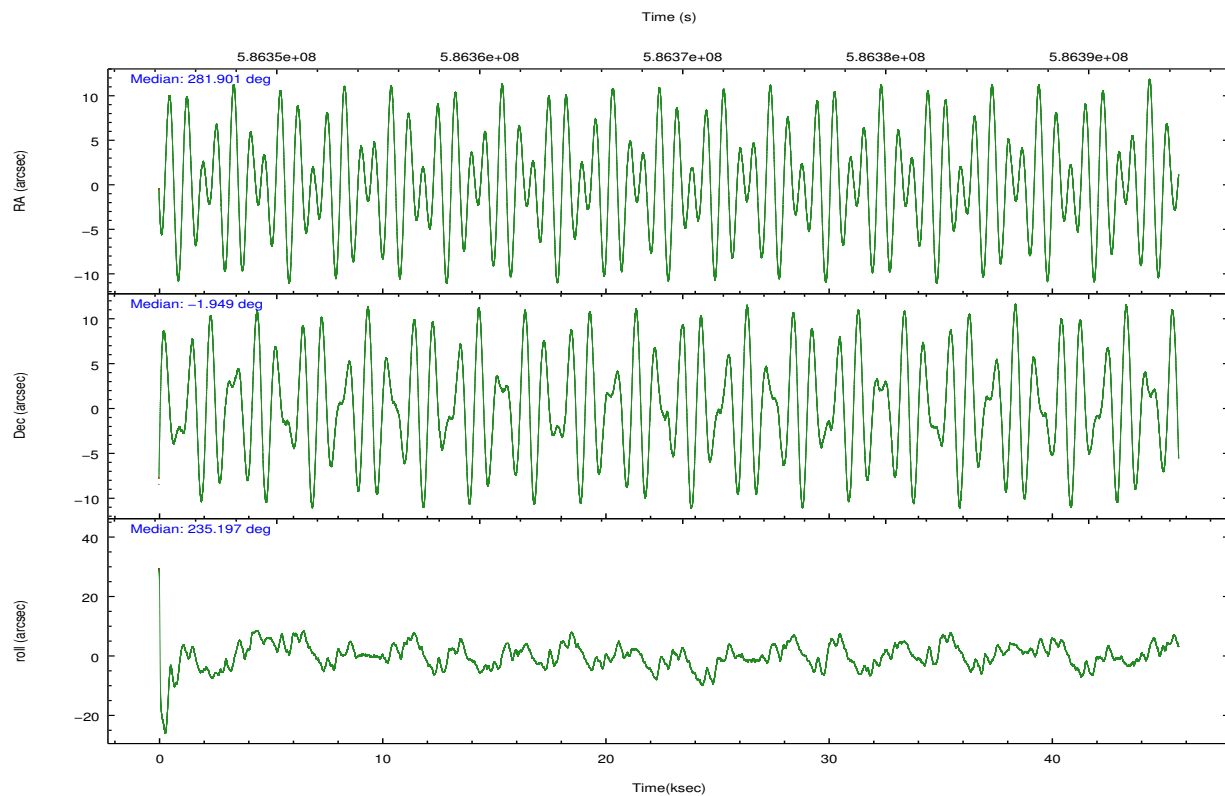
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11966	14322	12741	14119
	4%	5%	4%	4%
grade 1 events	163	169	250	208
	0%	0%	0%	0%
grade 2 events	7728	8068	7249	7017
	2%	3%	2%	2%
grade 3 events	3166	3372	2987	3349
	1%	1%	1%	1%
grade 4 events	3050	3191	3131	3309
	1%	1%	1%	1%
grade 5 events	10297	10852	9526	11636
	3%	4%	3%	4%
grade 6 events	6171	7320	5636	6409
	2%	2%	1%	2%
grade 7 events	216667	217254	255764	239698
	83%	82%	86%	83%

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	281.903618	281.9014091111925	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.921748	-1.949243482174255	CCD I3 on	Y	Y
[deg] Pointing Roll	235.000021	235.2086525375658	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	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	586346656.184000	586345707.386	CCD S5 on	N	N
Observation start date	2016-07-31T10:03:08	2016-07-31T09:48:27	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	586392156.184000	586393039.83872	On-chip summing requested	N	N
Observation end date	2016-07-31T22:41:28	2016-07-31T22:57:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



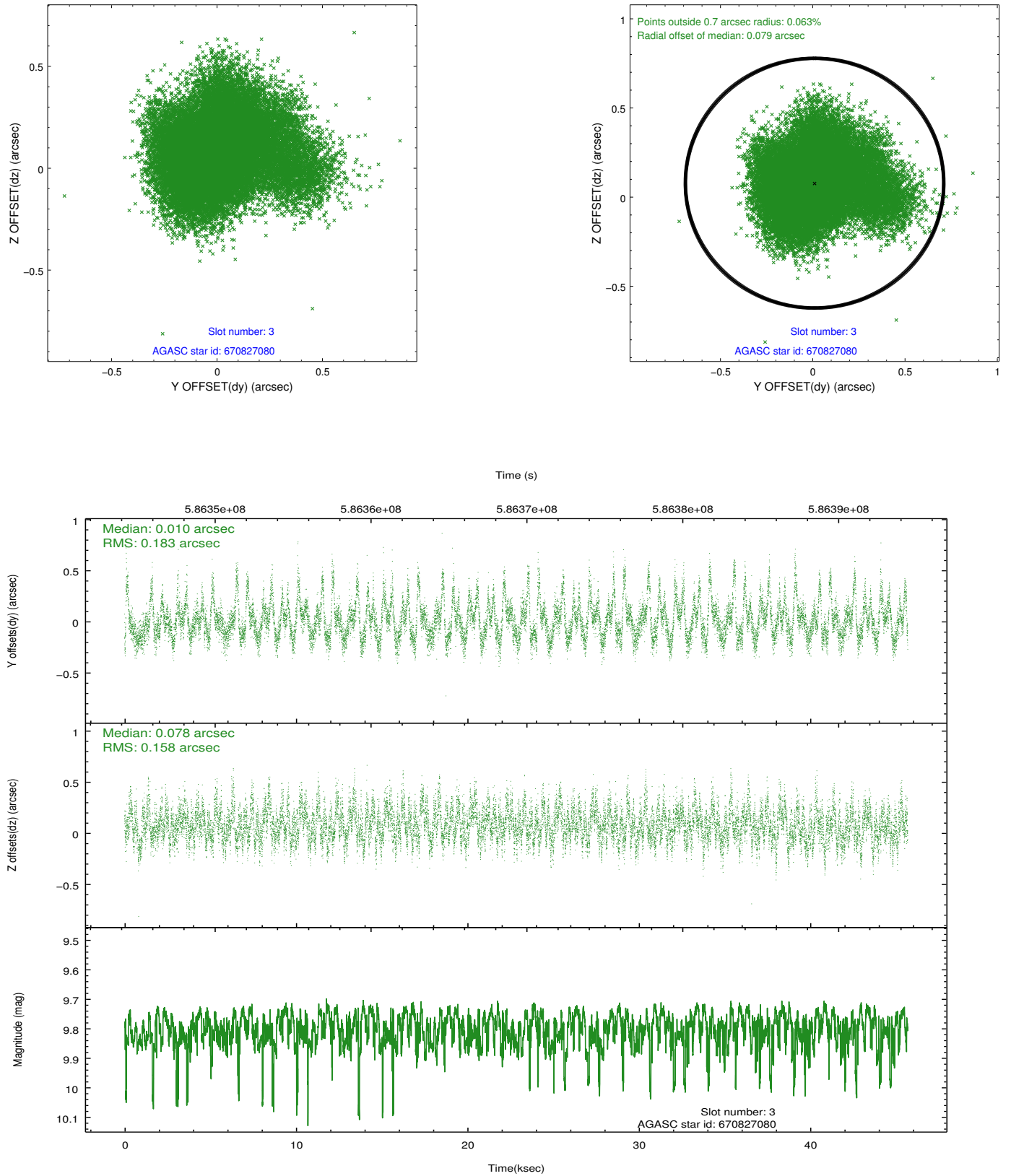


Slot Statistics

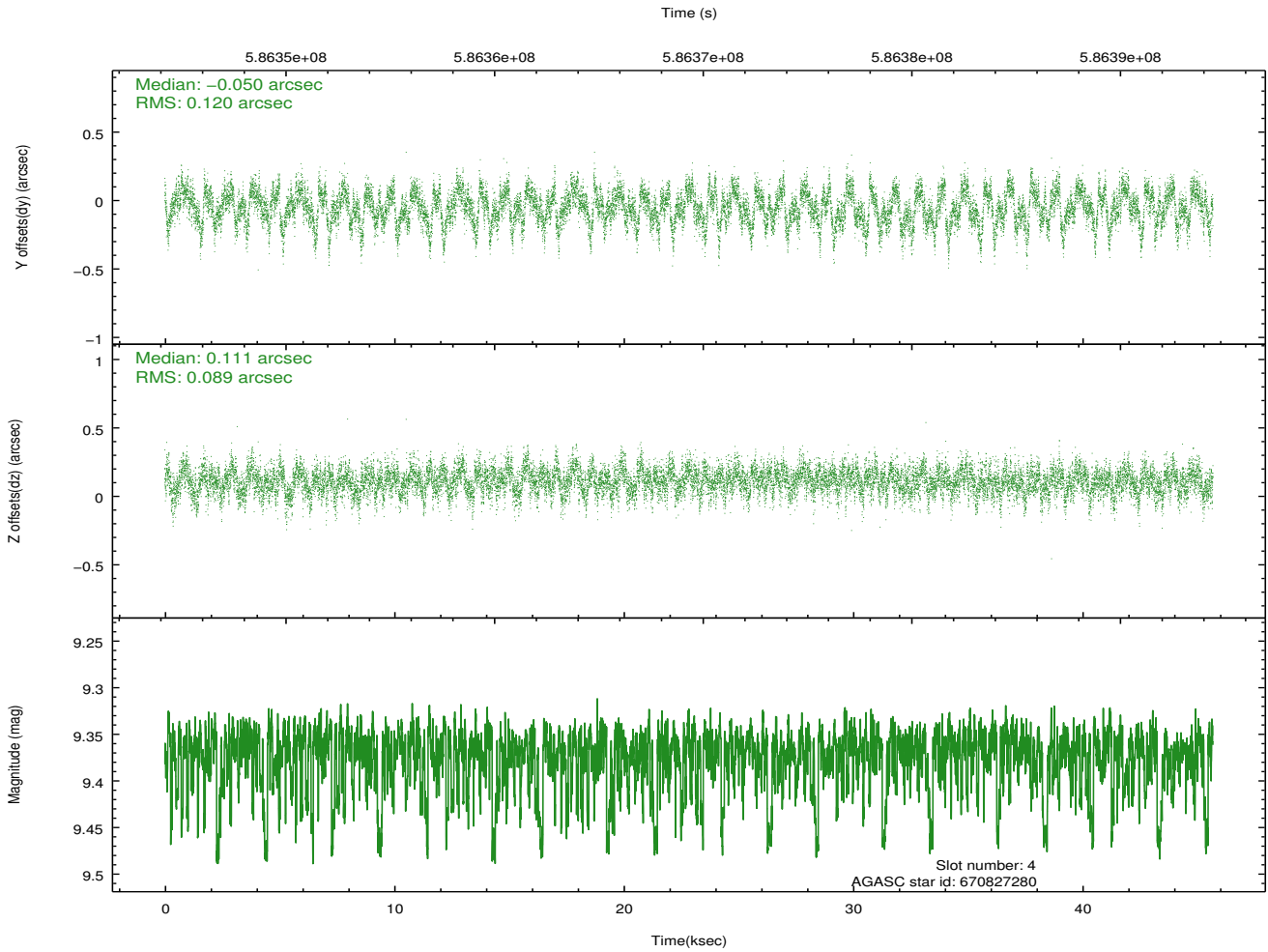
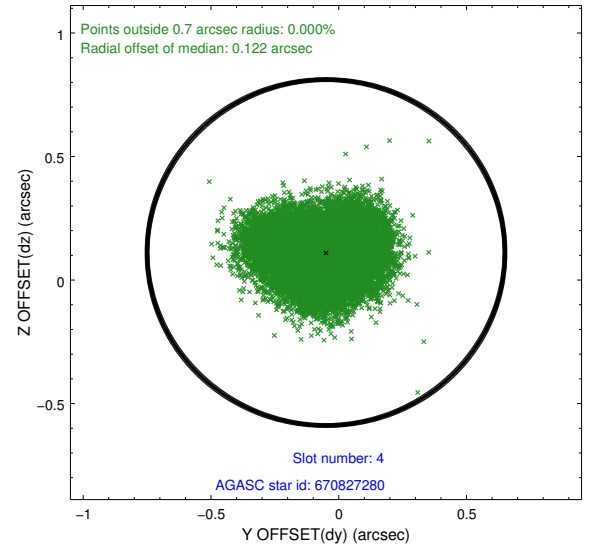
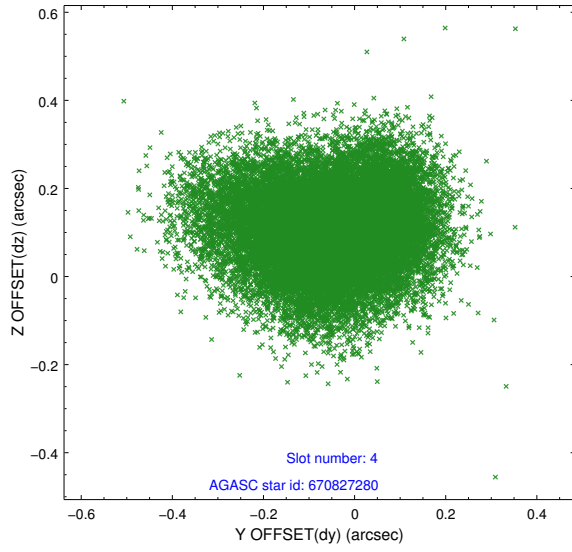
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.11	11144	-0.237	-0.116	0.022	0.045	0.000000	0.000000	-769.22	-847.42
1	FID		ACIS-I-4	7.15	11142	0.466	0.156	0.018	0.026	0.000000	0.000000	2145.50	1059.08
2	FID		ACIS-I-5	7.22	11143	-0.327	0.029	0.019	0.038	0.000000	0.000000	-1823.19	1056.72
3	GUIDE	used	670827080	9.80	22219	0.010	0.078	0.256	0.418	281.524319	-2.036517	1121.99	-880.33
4	GUIDE	used	670827280	9.37	22249	-0.050	0.111	0.160	0.257	281.434708	-1.976010	1130.14	-1269.21
5	GUIDE	used	670827744	9.49	22260	0.095	0.203	0.151	0.251	281.699180	-2.020401	713.55	-398.35
6	GUIDE	used	670827848	9.67	22254	-0.005	-0.349	0.178	0.289	282.233886	-2.502228	1030.68	2172.00
7	GUIDE	used	670829768	7.47	22284	-0.041	-0.040	0.102	0.170	281.927934	-2.010470	211.89	255.09

2.4 Star Slots

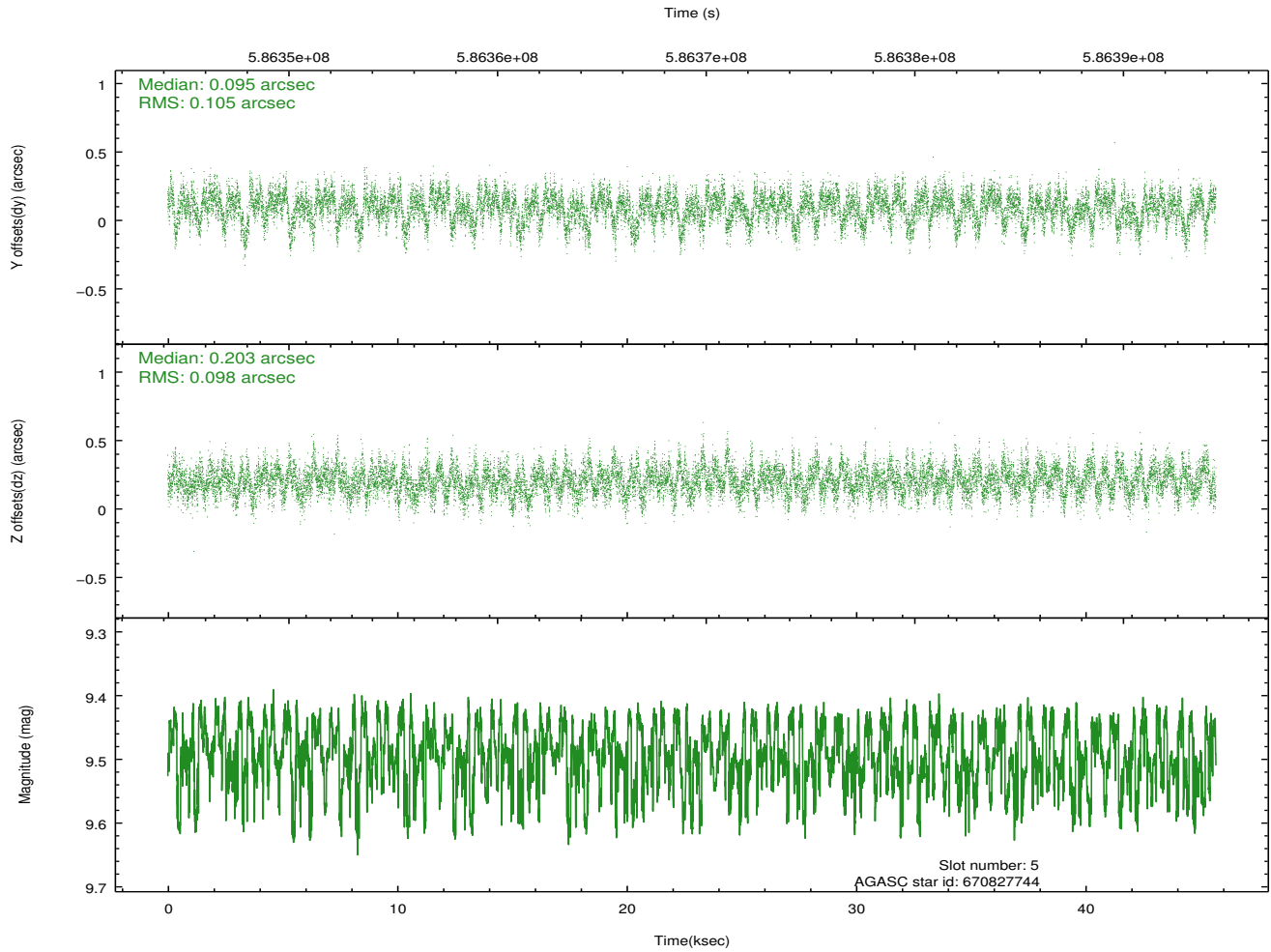
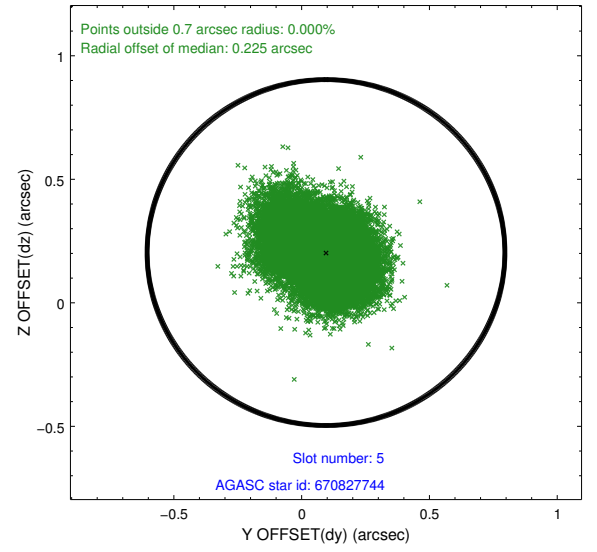
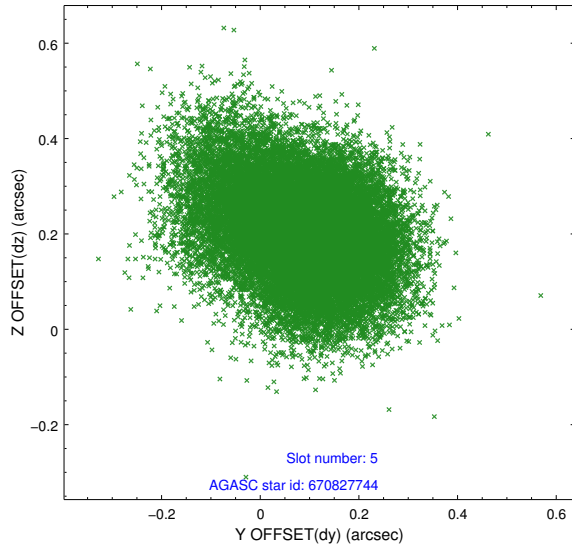
2.4.1 Slot 3



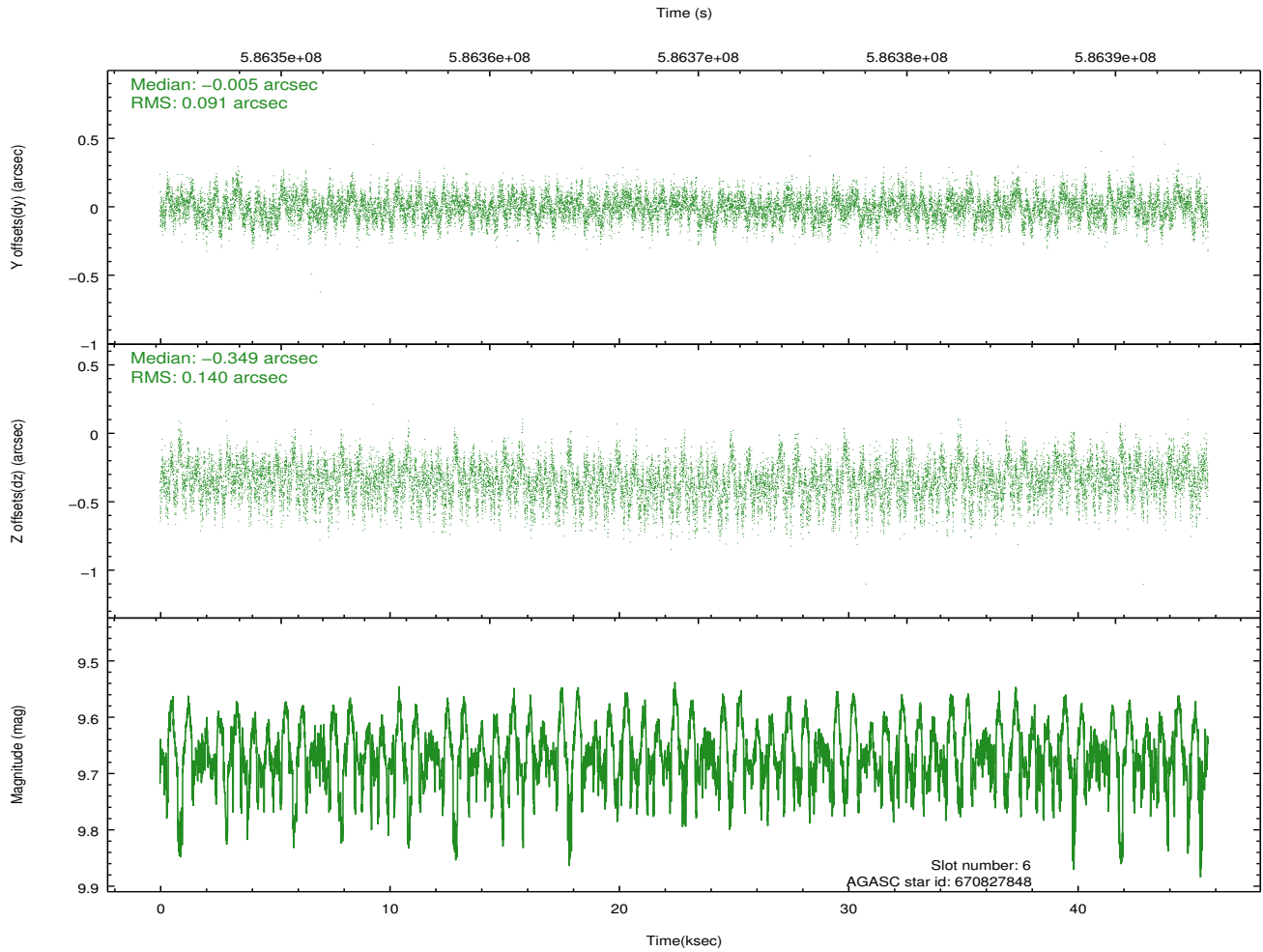
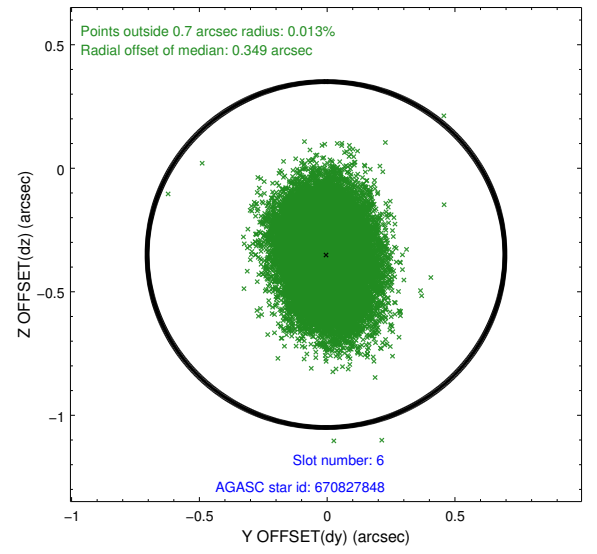
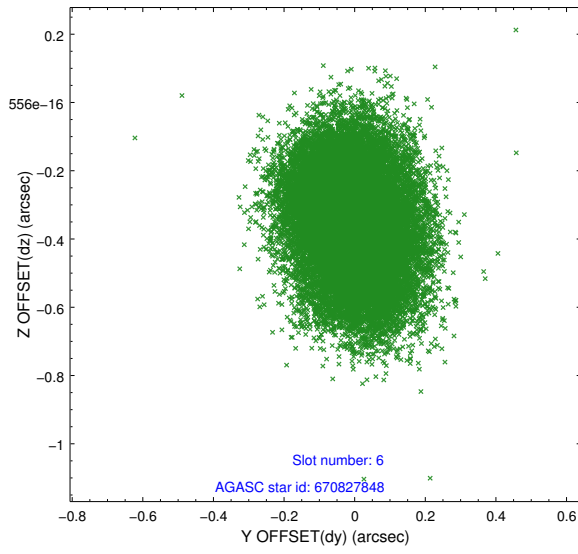
2.4.2 Slot 4



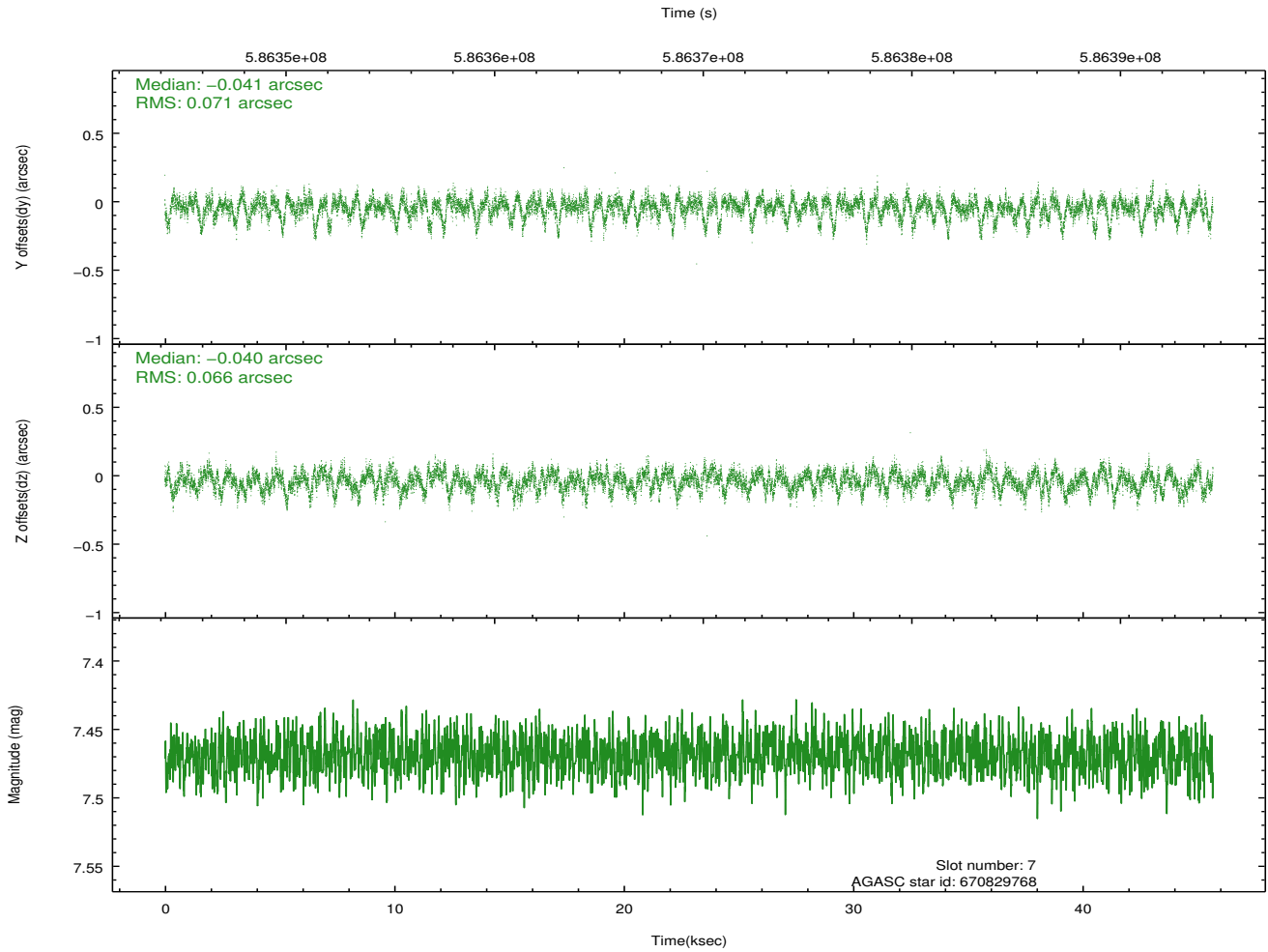
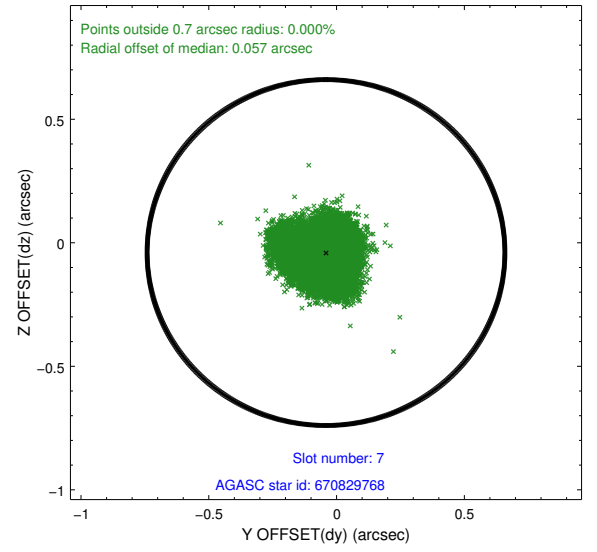
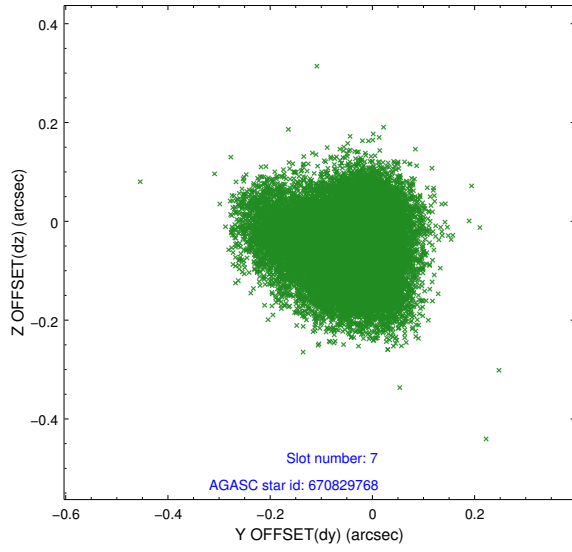
2.4.3 Slot 5



2.4.4 Slot 6

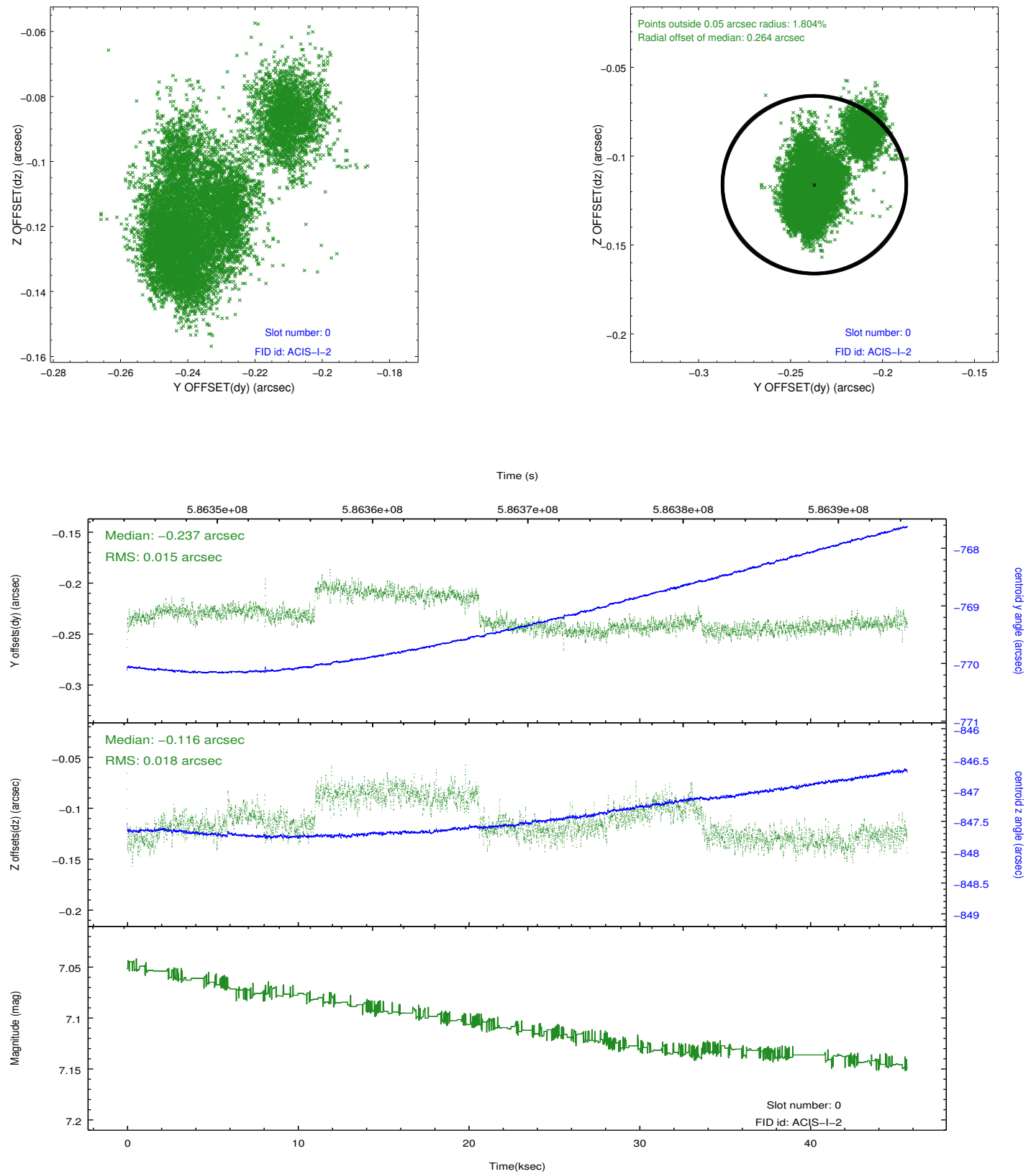


2.4.5 Slot 7

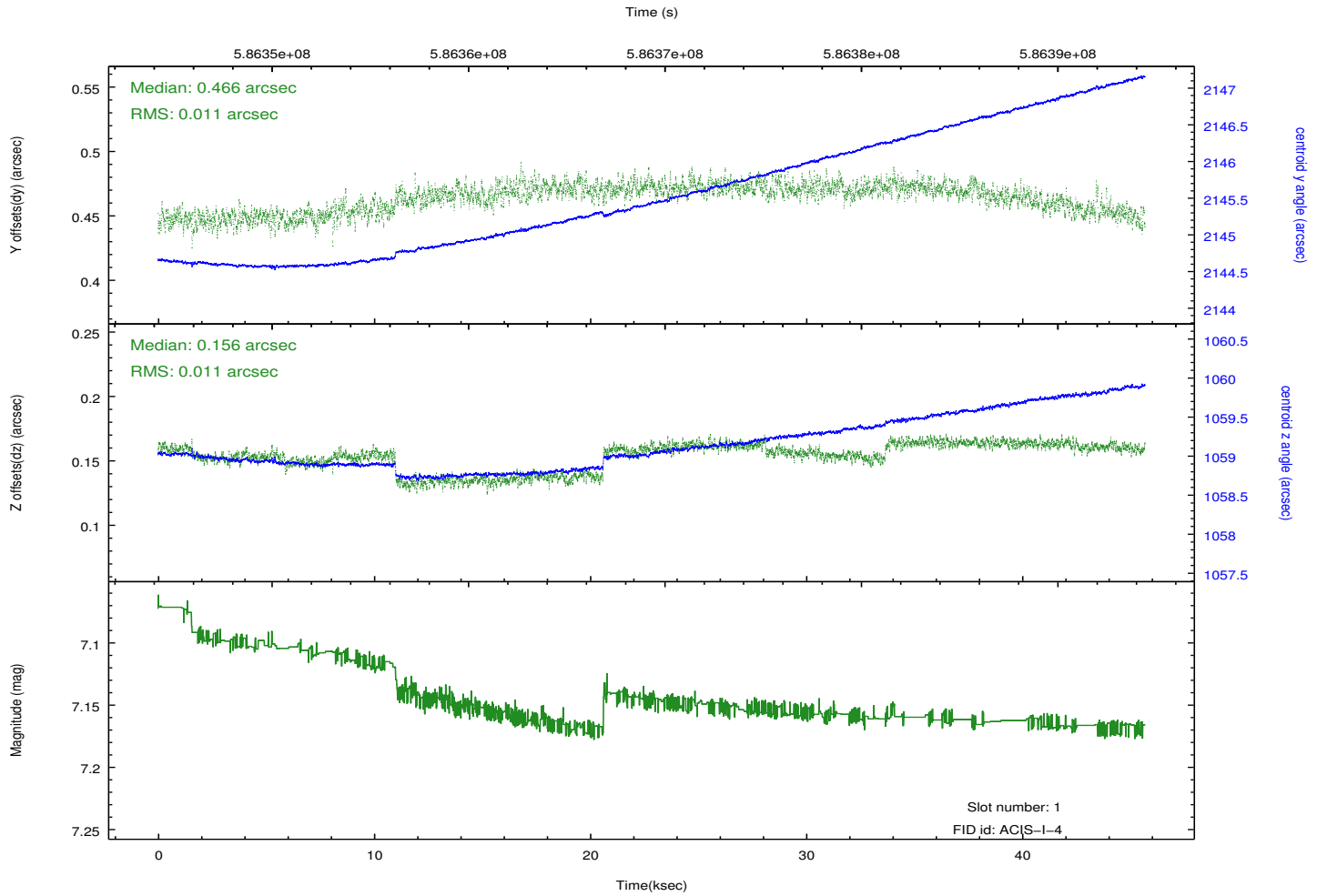
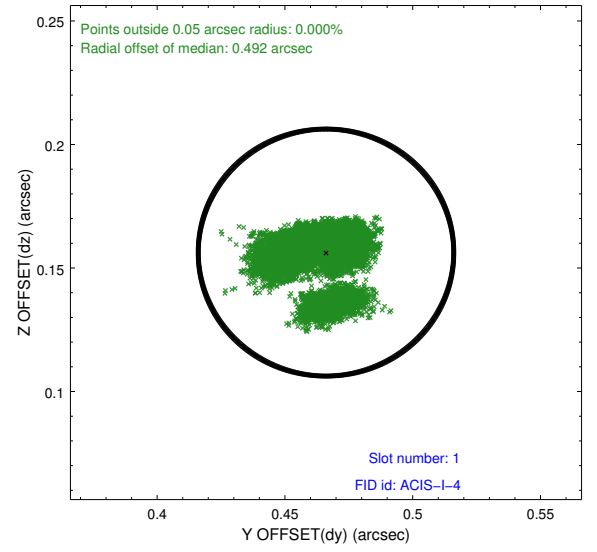
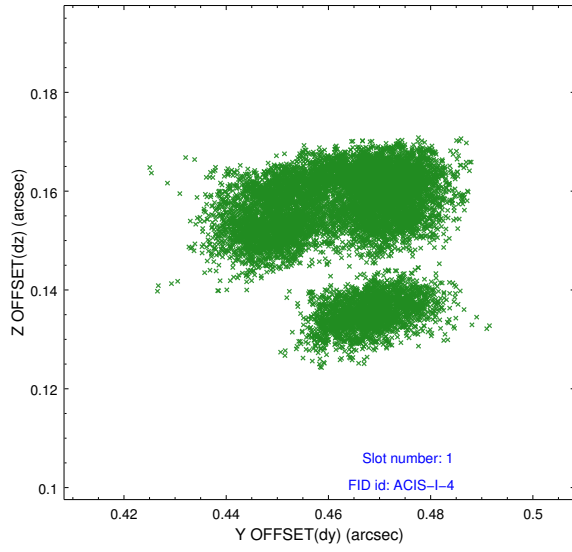


2.5 FID Slots

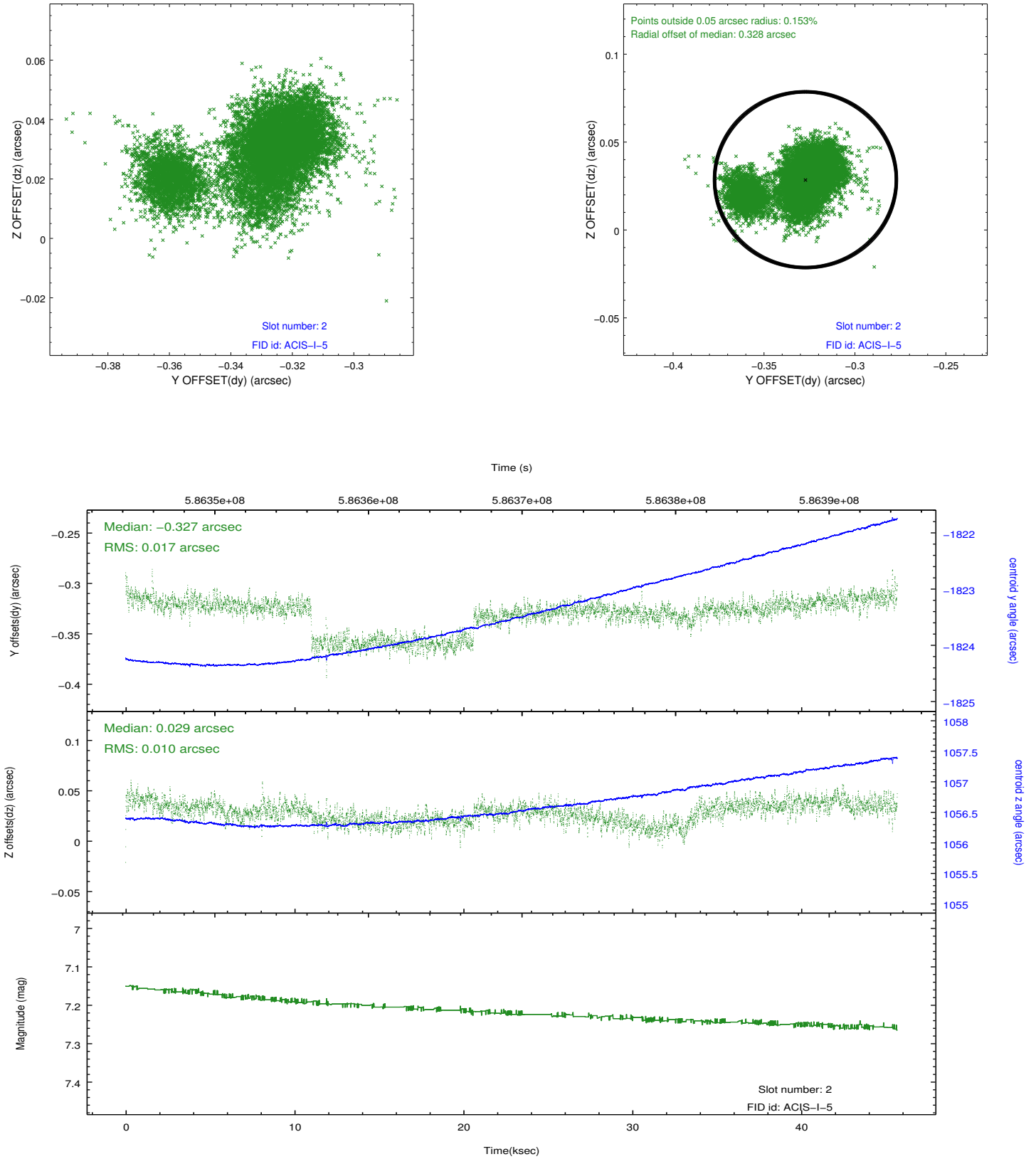
2.5.1 Slot 0



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)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.569959280372

A.2 Comments

Two optional chips were dropped.