

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18947 - L2 Version 1
Chandra X-Ray Center

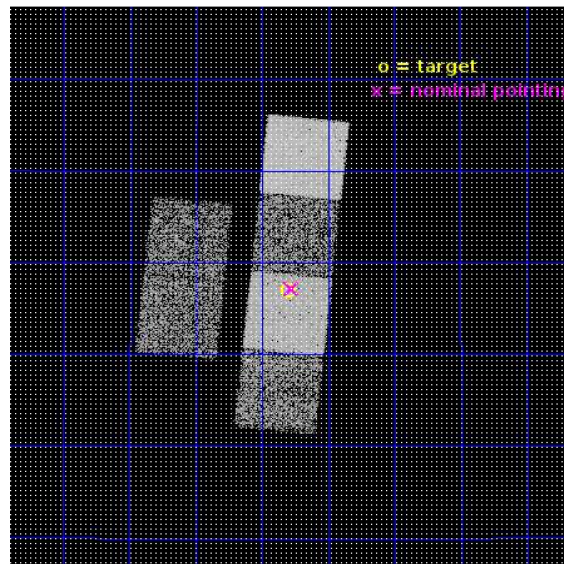
L2 Processing Date : Aug 12 2017

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1 Front

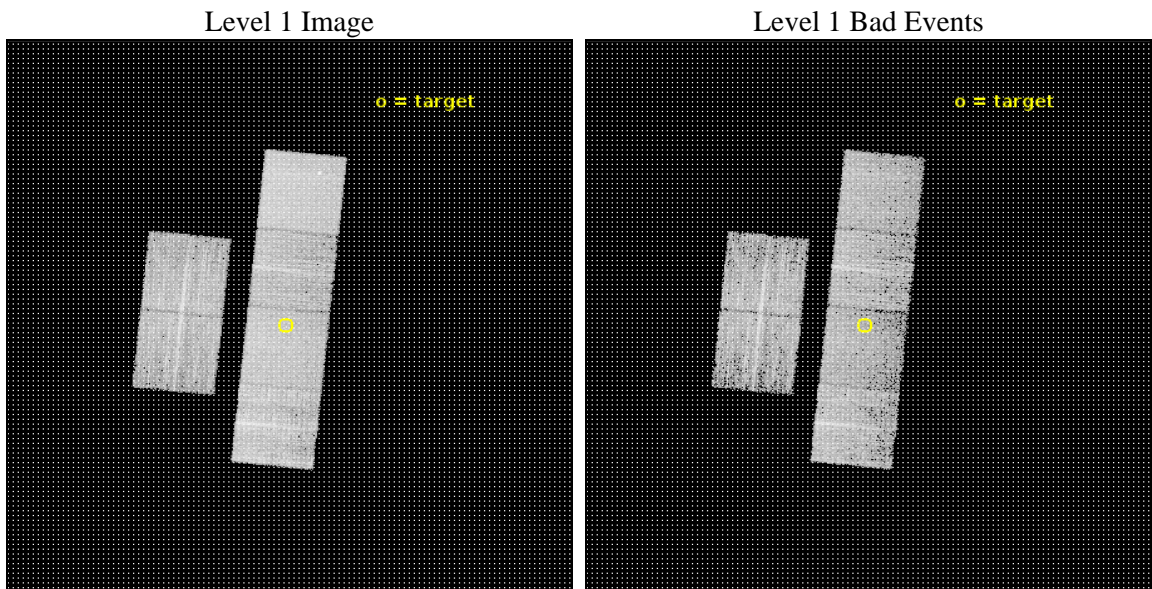
seq_num	201140	Sequence number
obs_id	18947	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J05011802+2237015	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	75.325	Observer's specified target RA [deg]
dec_targ	22.615806	Observer's specified target Dec [deg]
ra_nom	75.319584913118	Nominal RA [deg]
dec_nom	22.619757175456	Nominal Dec [deg]
roll_nom	95.971848833386	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5951.3168165684	Sum of GTIs [s]
liveltime	5875.9576595842	Livetime [s]
ontime2	5951.3578565121	Sum of GTIs [s]
ontime3	5951.1936964989	Sum of GTIs [s]
ontime5	5951.2757765055	Sum of GTIs [s]
ontime6	5951.2347365618	Sum of GTIs [s]
ontime7	5951.3168165684	Sum of GTIs [s]
ontime8	5951.1526565552	Sum of GTIs [s]
l2events	69517	Number of level 2 events



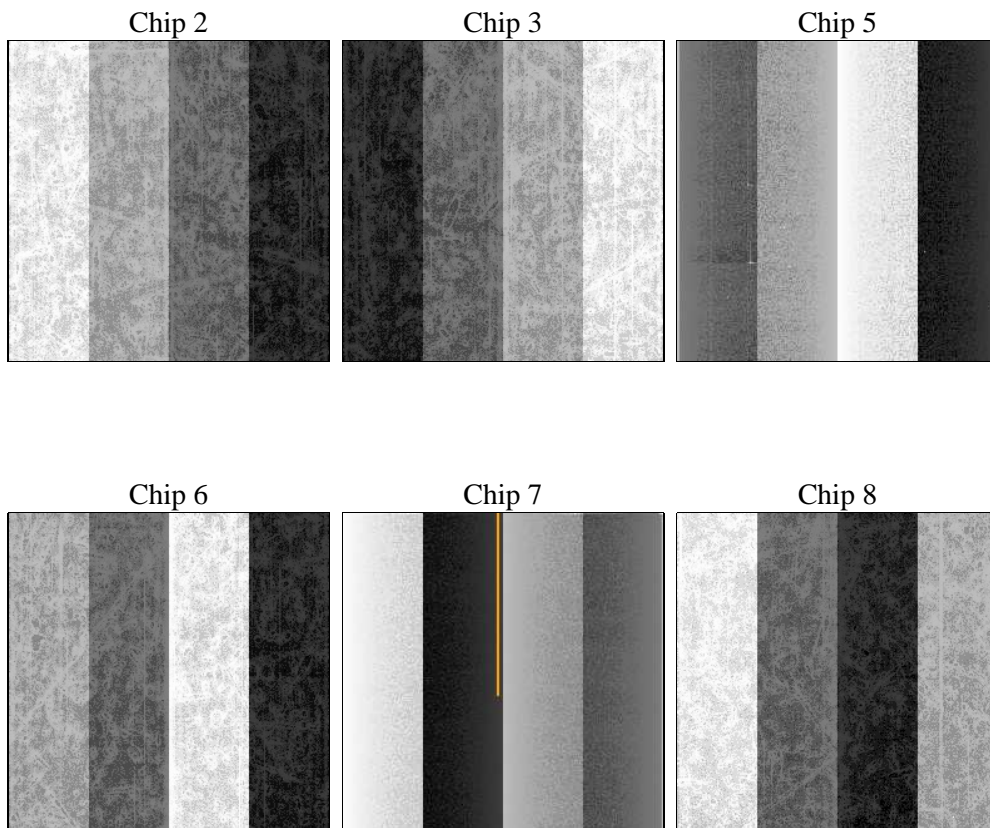
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	5951.3168165684	Sum of GTIs [s]
caldbver	4.7.5	 	ontime2	5951.3578565121	Sum of GTIs [s]
date	2017-08-12T04:15:03	Date and time of file creation	ontime3	5951.1936964989	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	5951.2757765055	Sum of GTIs [s]
			ontime6	5951.2347365618	Sum of GTIs [s]
			ontime7	5951.3168165684	Sum of GTIs [s]
			ontime8	5951.1526565552	Sum of GTIs [s]
			l1events	301433	Number of level 1 events

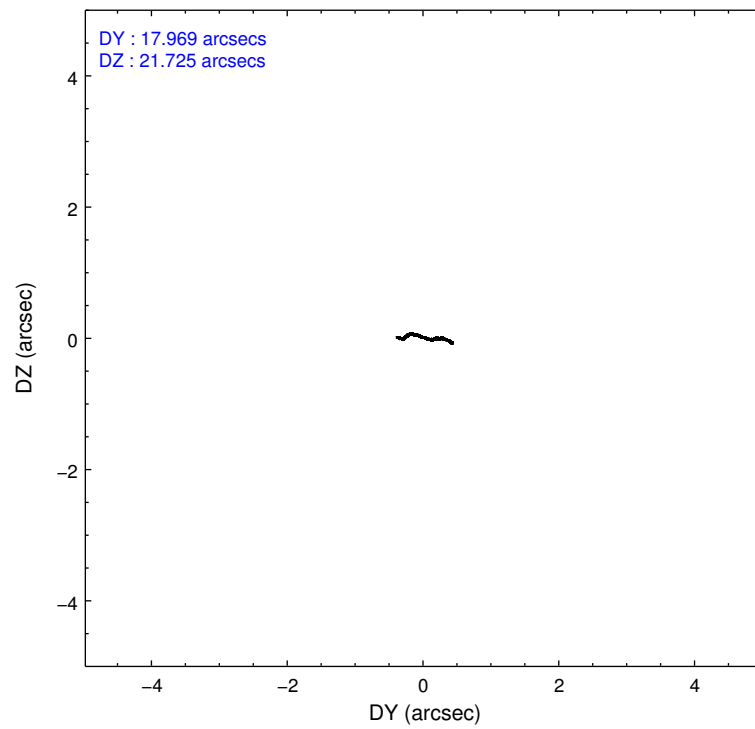
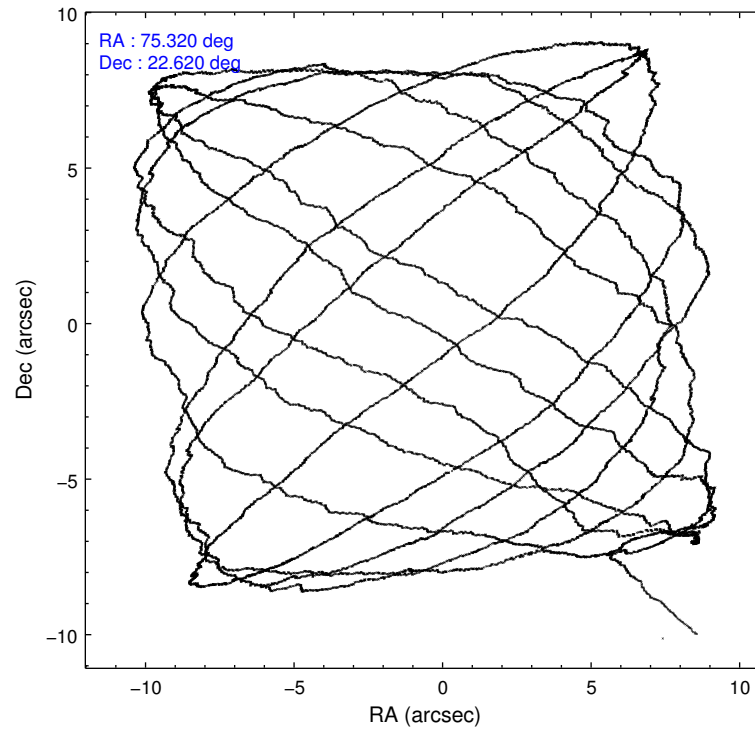
2.1.4 Events

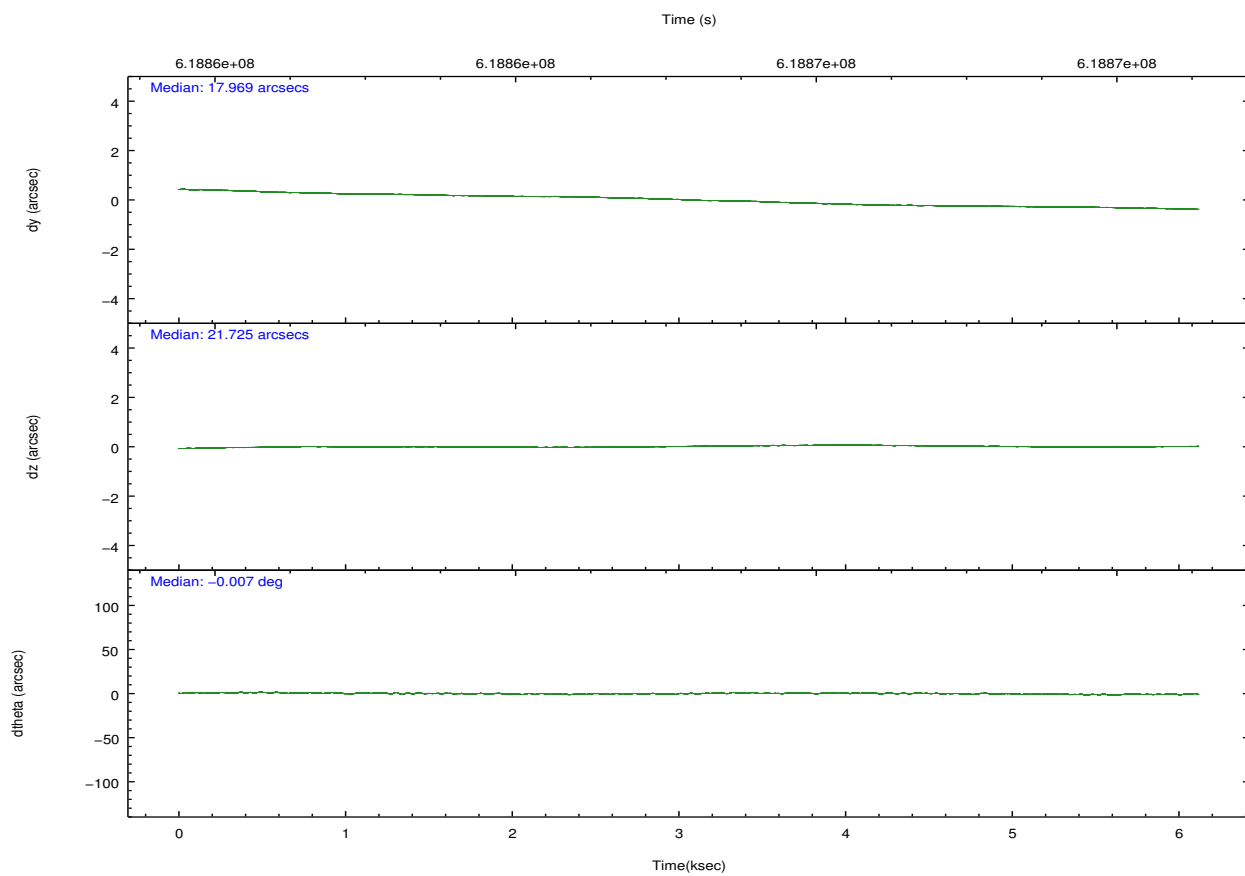
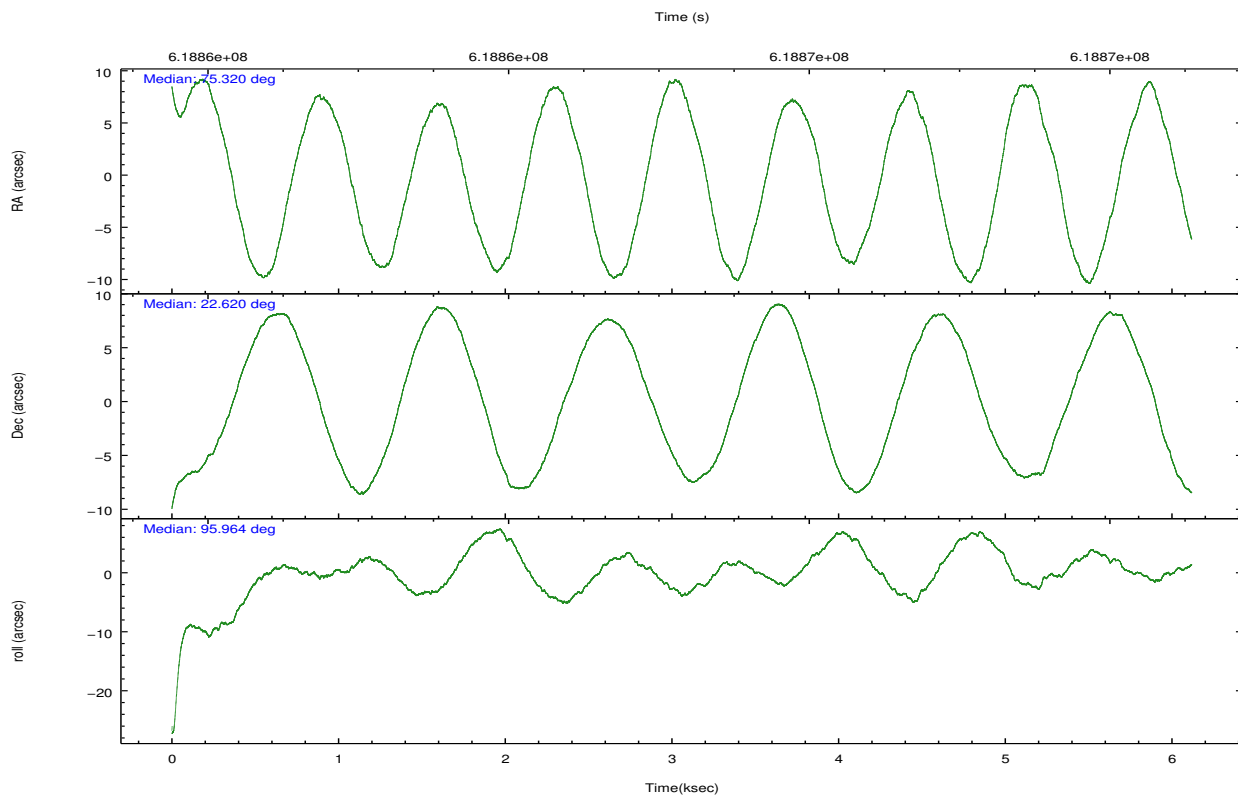
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	42372	39411	65377	43043	53484	57746	grade 0 events	1672	1630	1782	1562	2054	4593
rejected events	37872	35066	34263	38307	30151	41744		3%	4%	2%	3%	3%	7%
rejected %	89%	88%	52%	88%	56%	72%	grade 1 events	23	21	143	17	106	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	1084	968	9915	1129	4918	3801
								2%	2%	15%	2%	9%	6%
							grade 3 events	455	409	930	457	1797	1691
								1%	1%	1%	1%	3%	2%
							grade 4 events	445	458	870	452	1830	1568
								1%	1%	1%	1%	3%	2%
							grade 5 events	1565	1908	4585	2026	5324	2882
								3%	4%	7%	4%	9%	4%
							grade 6 events	849	887	17654	1143	12757	4398
								2%	2%	27%	2%	23%	7%
							grade 7 events	36279	33130	29498	36257	24698	38766
								85%	84%	45%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	75.337273	75.31958491311816	CCD I2 on	O1	Y
[deg] Pointing Dec	22.597791	22.6197571754556	CCD I3 on	O2	Y
[deg] Pointing Roll	95.808466	95.97184883338602	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	618862209.184000	618860854.5942	CCD S5 on	N	N
Observation start date	2017-08-11T18:09:00	2017-08-11T17:47:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	618868209.184000	618869184.76969	On-chip summing requested	N	N
Observation end date	2017-08-11T19:49:00	2017-08-11T20:06:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



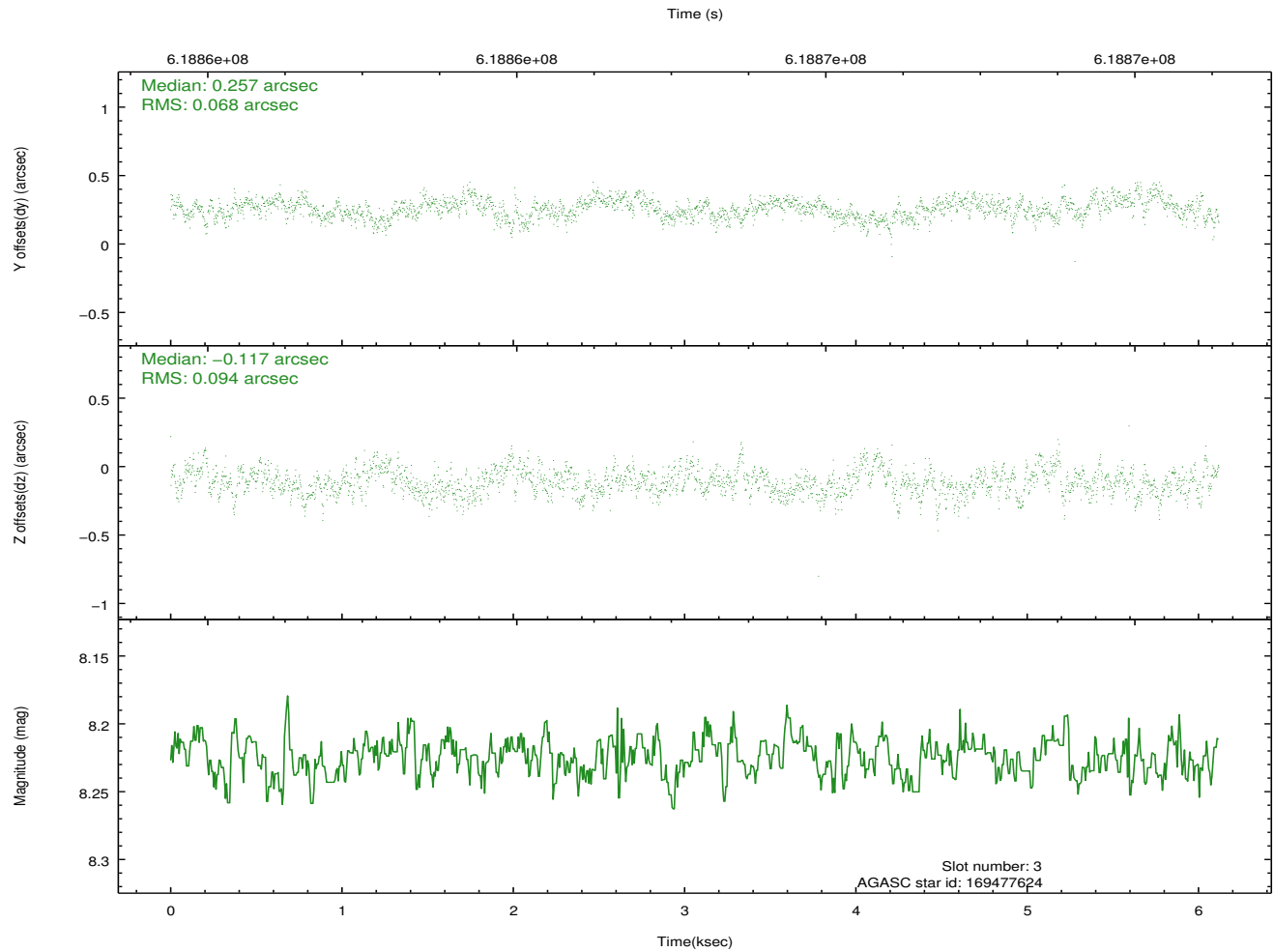
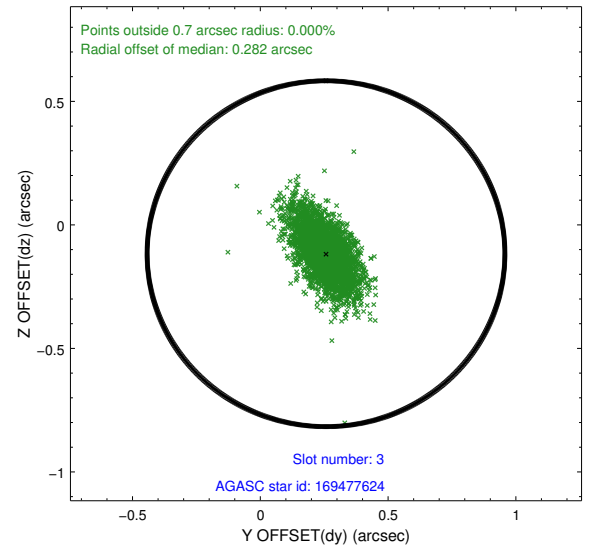
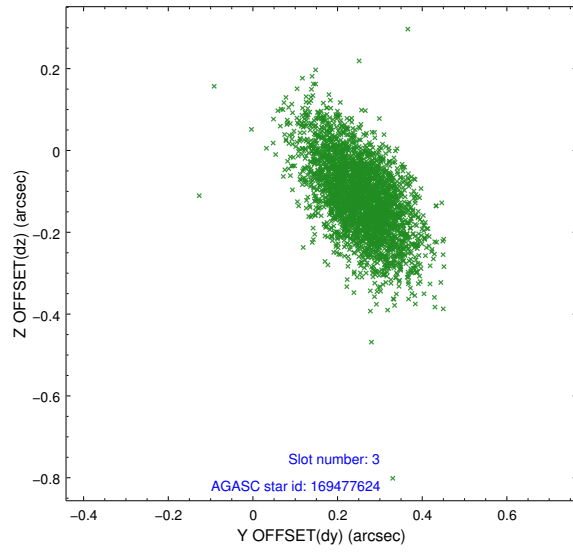


Slot Statistics

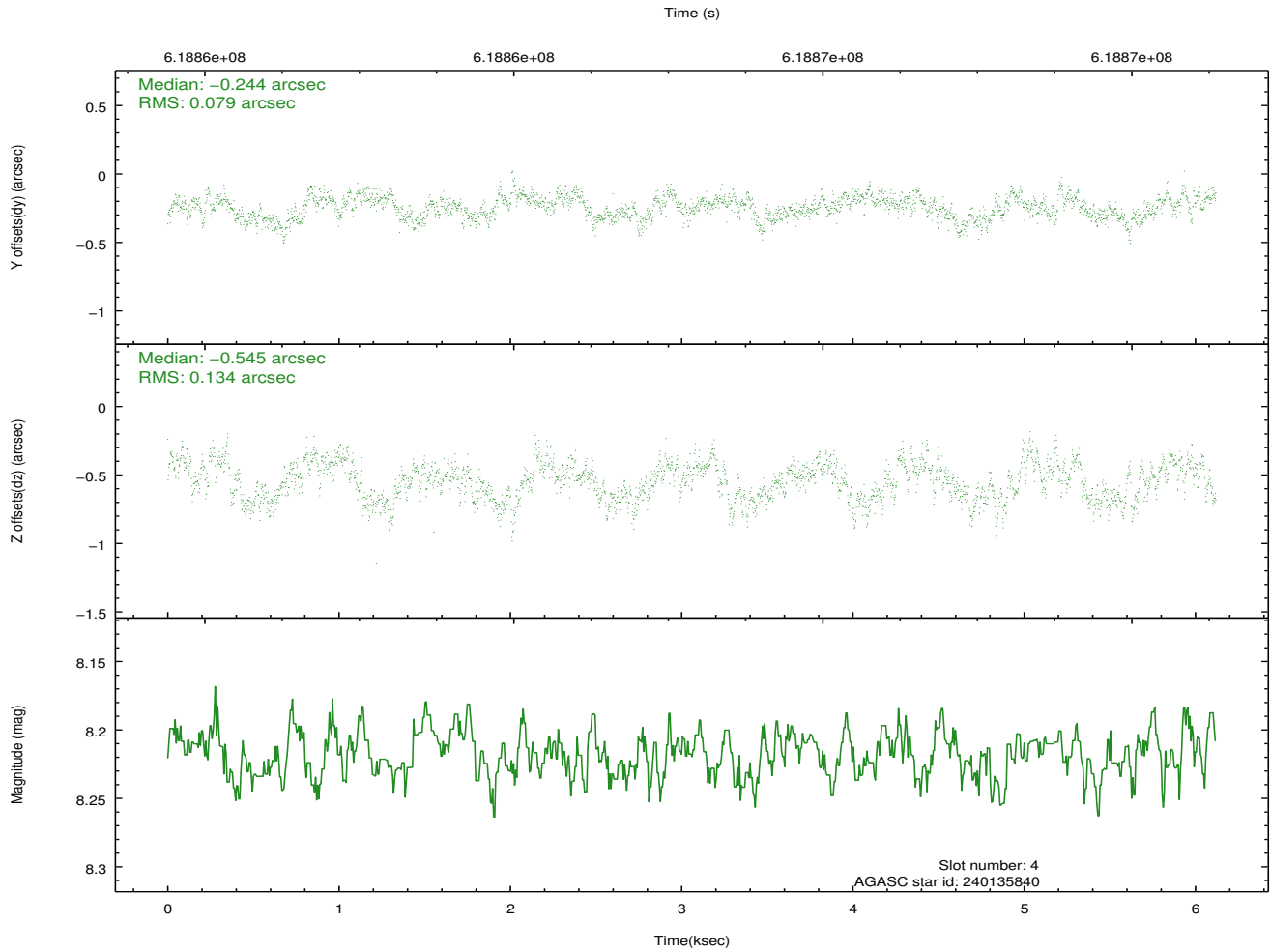
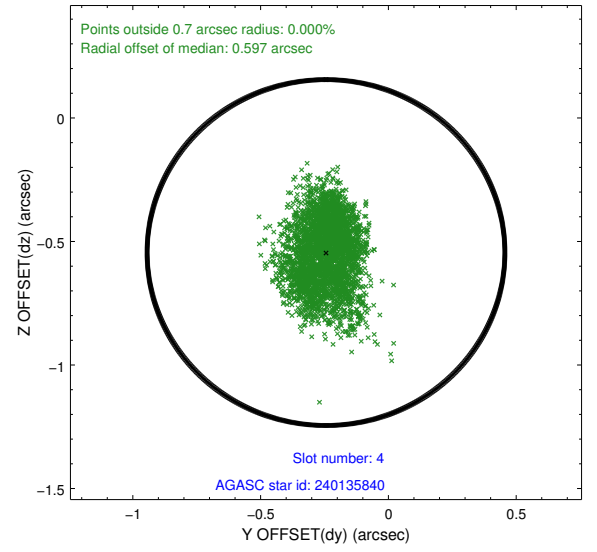
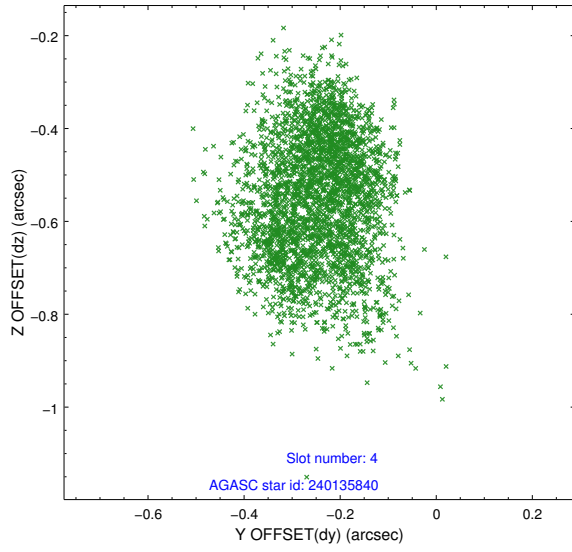
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.17	1493	0.073	-0.094	0.010	0.015	0.000000	0.000000	925.13	-1738.95
1	FID		ACIS-S-4	7.19	1492	0.373	0.035	0.009	0.015	0.000000	0.000000	2143.32	164.37
2	FID		ACIS-S-5	7.19	1493	-0.474	0.072	0.013	0.024	0.000000	0.000000	-1823.10	158.99
3	GUIDE	used	169477624	8.22	2985	0.257	-0.117	0.117	0.215	74.963724	22.268539	-1051.96	1357.74
4	GUIDE	used	240135840	8.22	2982	-0.244	-0.545	0.166	0.263	74.807864	22.742976	700.59	1695.78
5	GUIDE	used	241831912	9.03	2984	-0.096	0.061	0.136	0.234	75.818172	22.750189	387.62	-1643.12
6	GUIDE	used	241834920	9.04	2984	0.294	0.591	0.190	0.287	75.987803	22.533621	-442.91	-2128.81
7	GUIDE	used	241855624	8.16	2983	-0.204	0.015	0.124	0.204	75.374009	23.104217	1801.48	-305.48

2.4 Star Slots

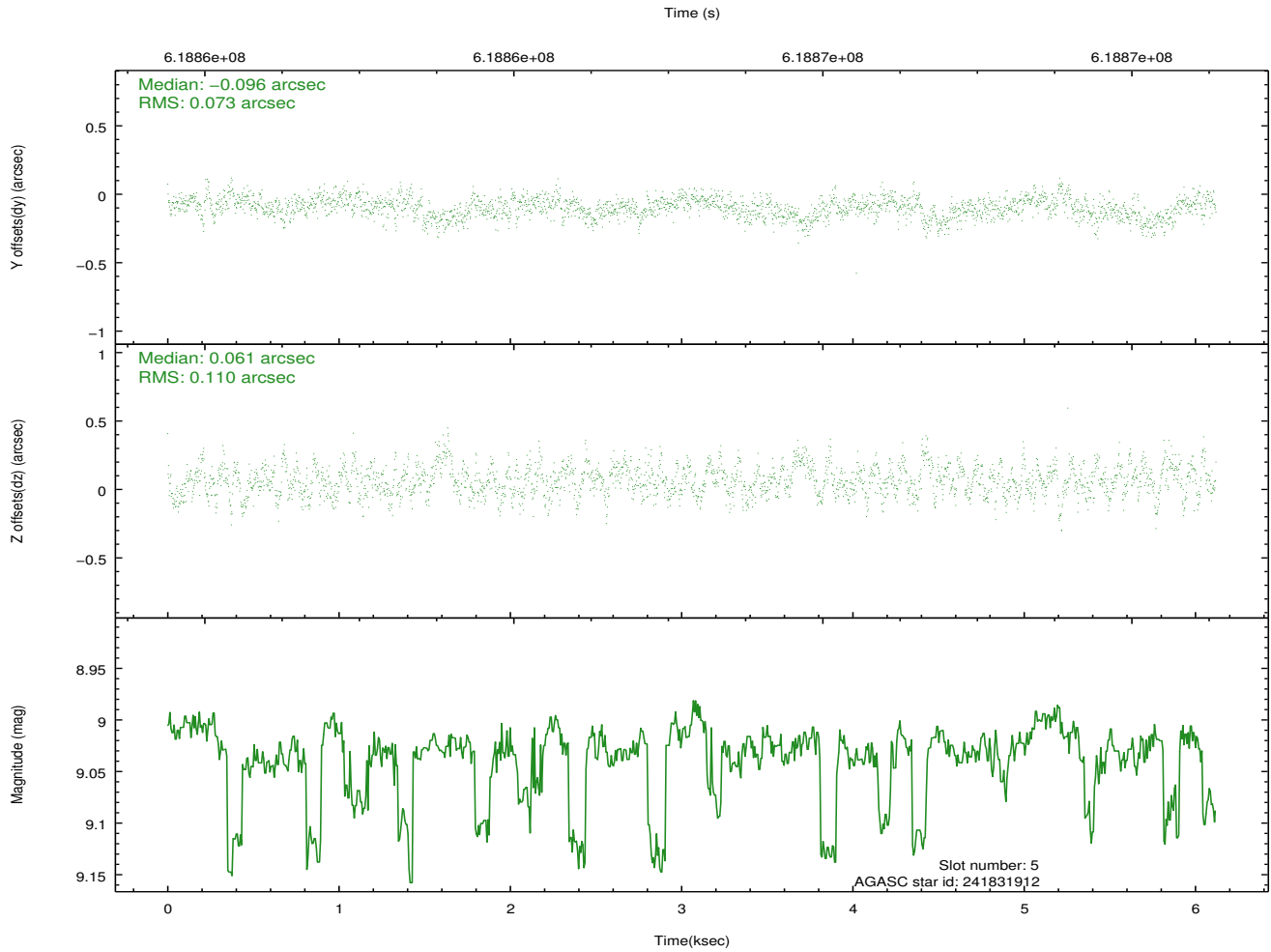
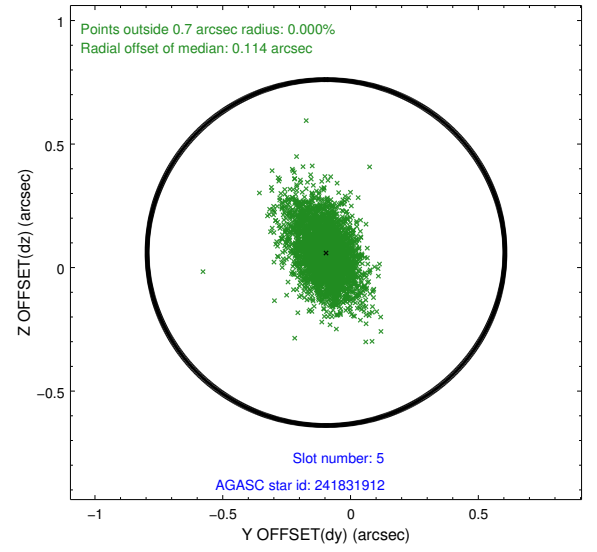
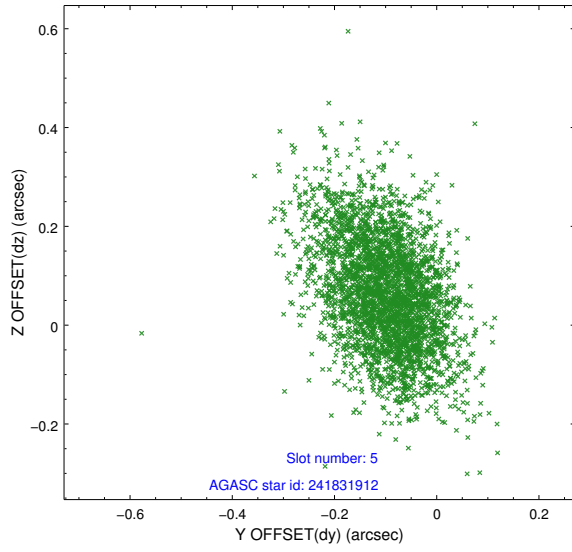
2.4.1 Slot 3



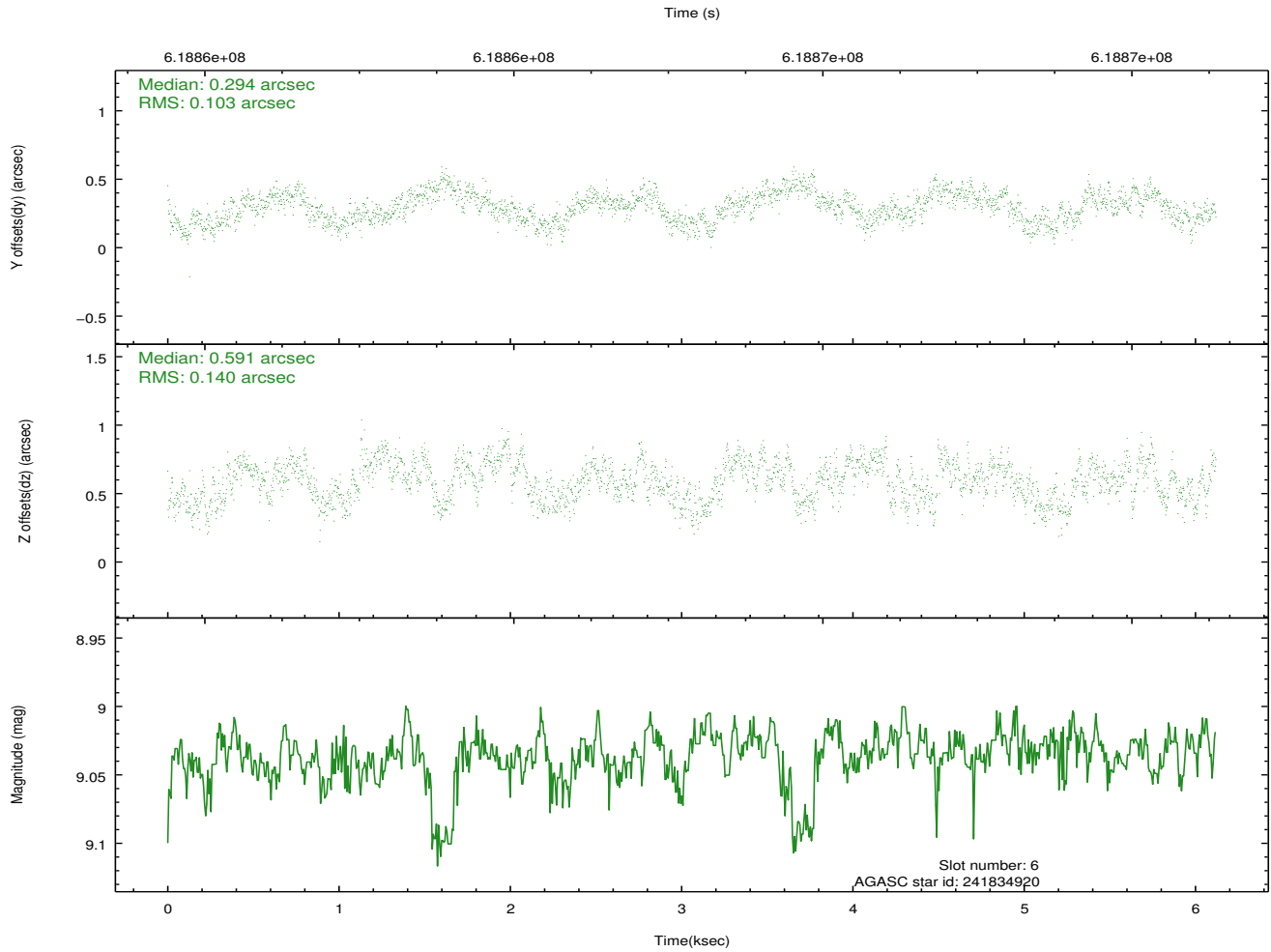
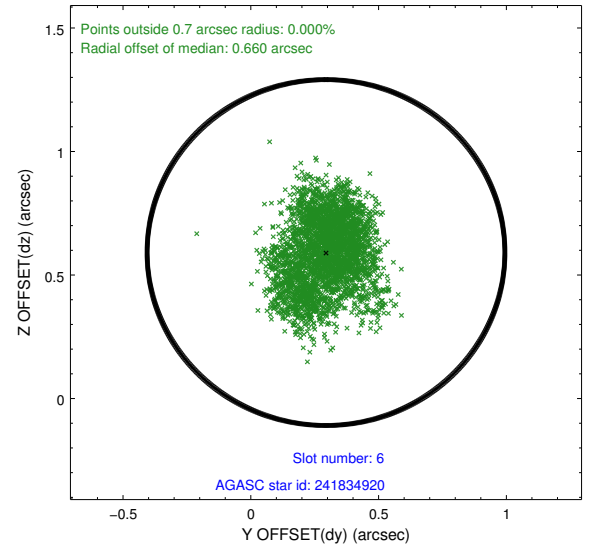
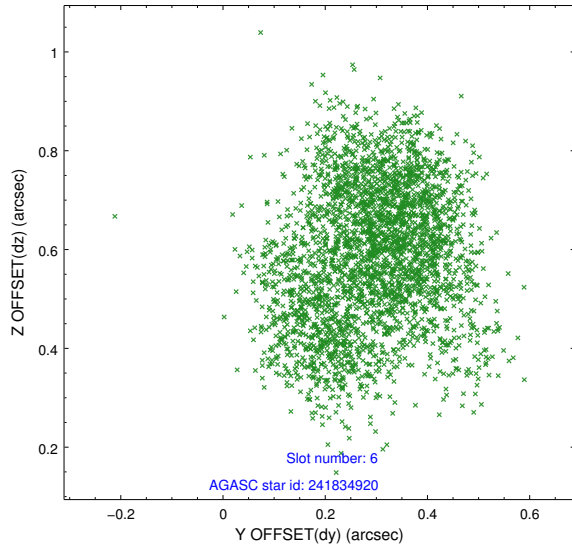
2.4.2 Slot 4



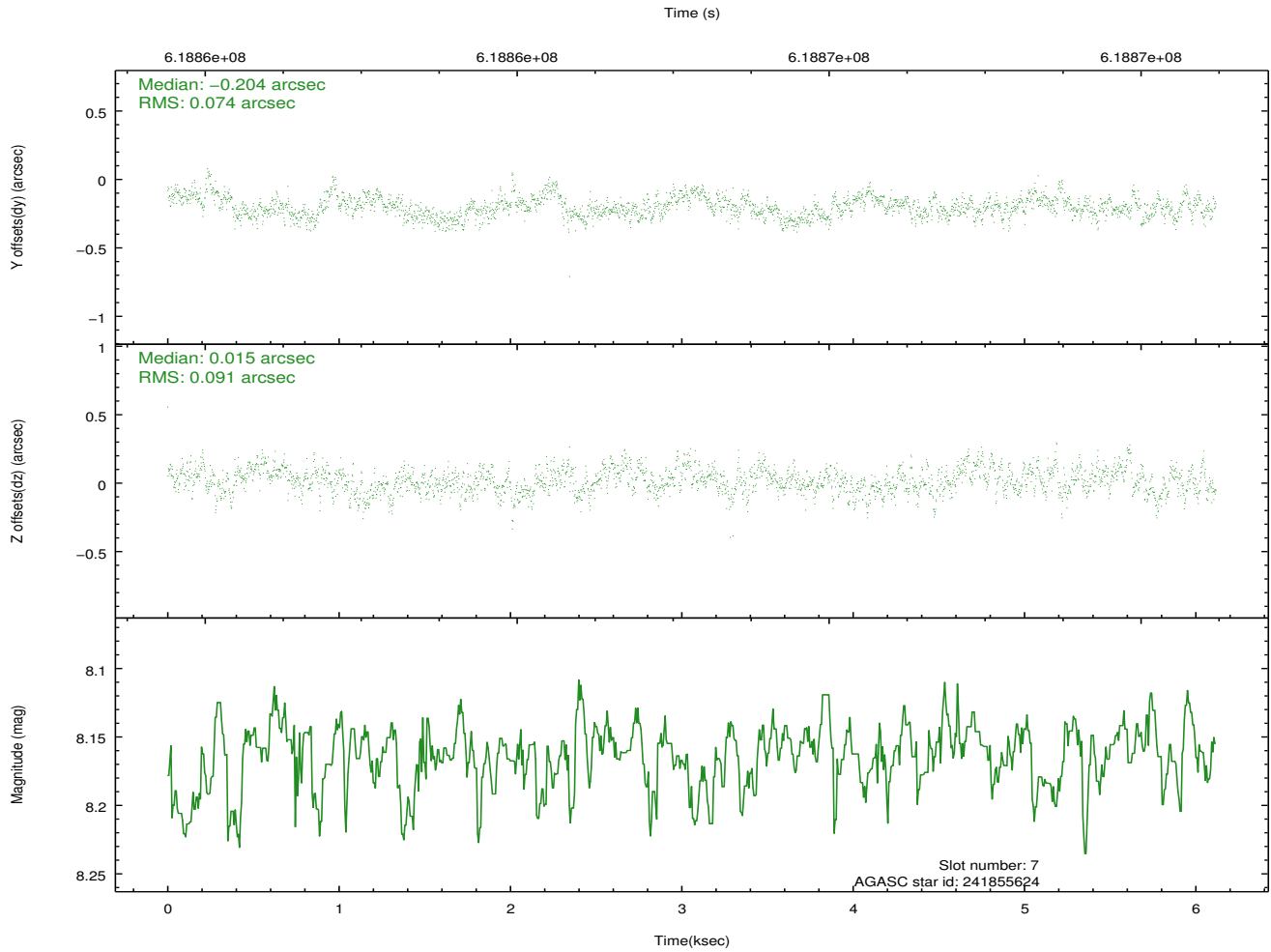
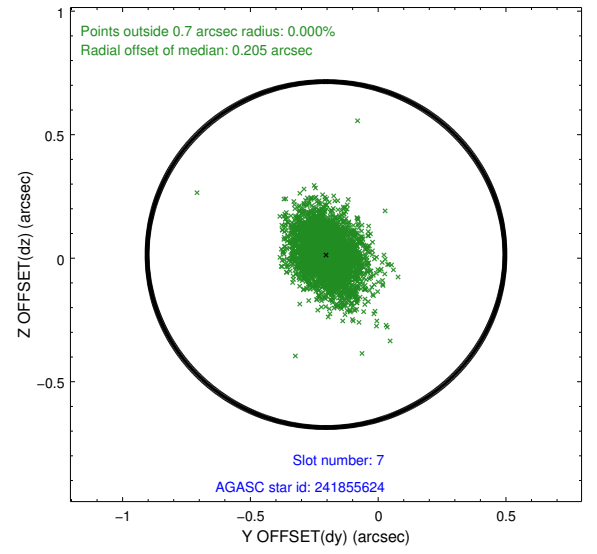
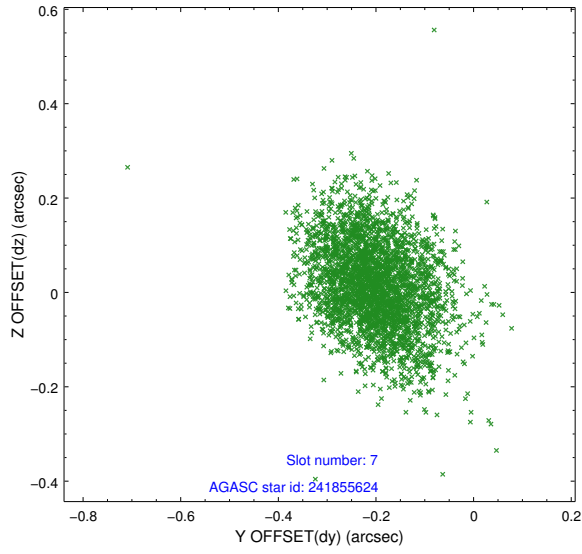
2.4.3 Slot 5



2.4.4 Slot 6

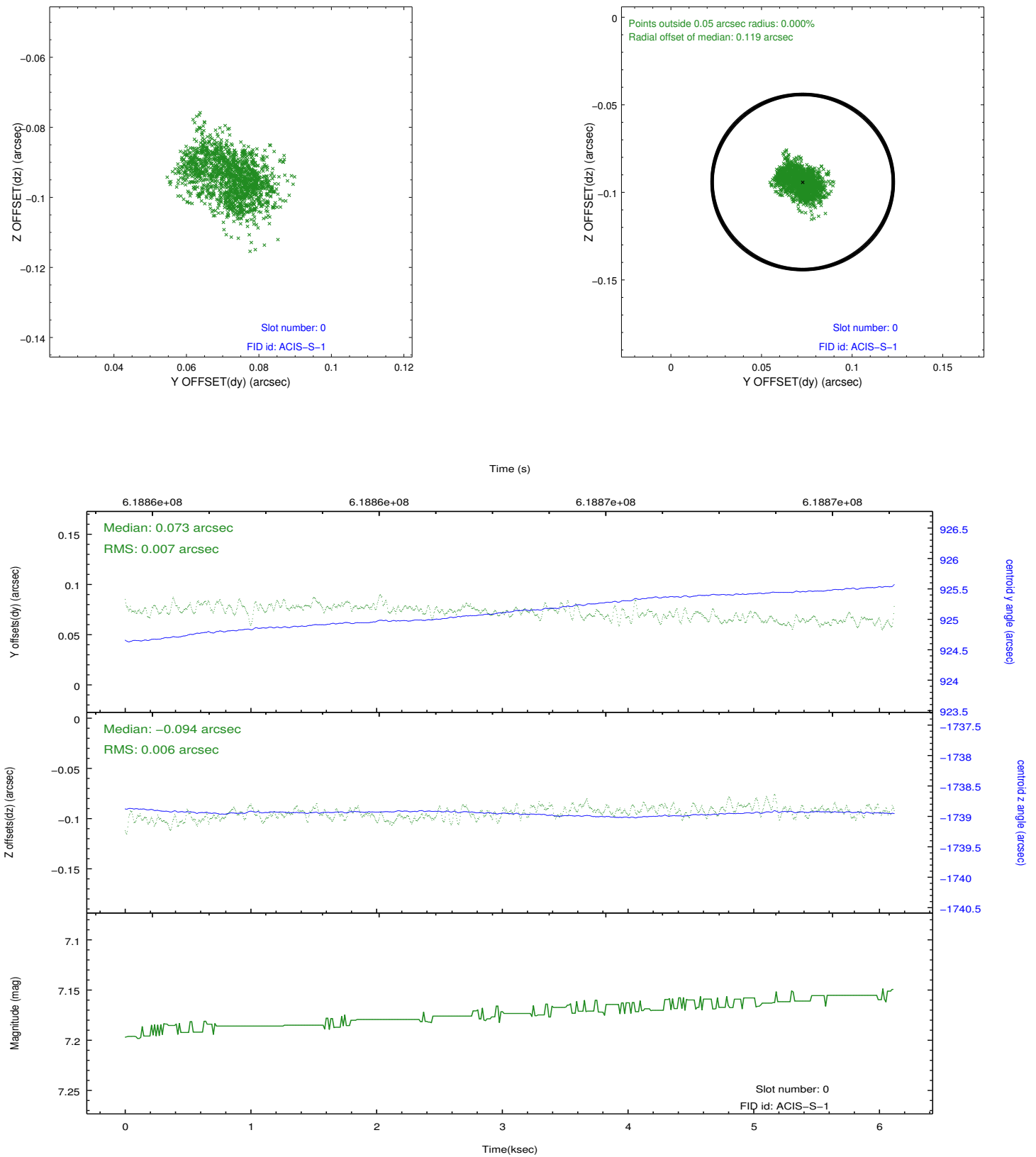


2.4.5 Slot 7

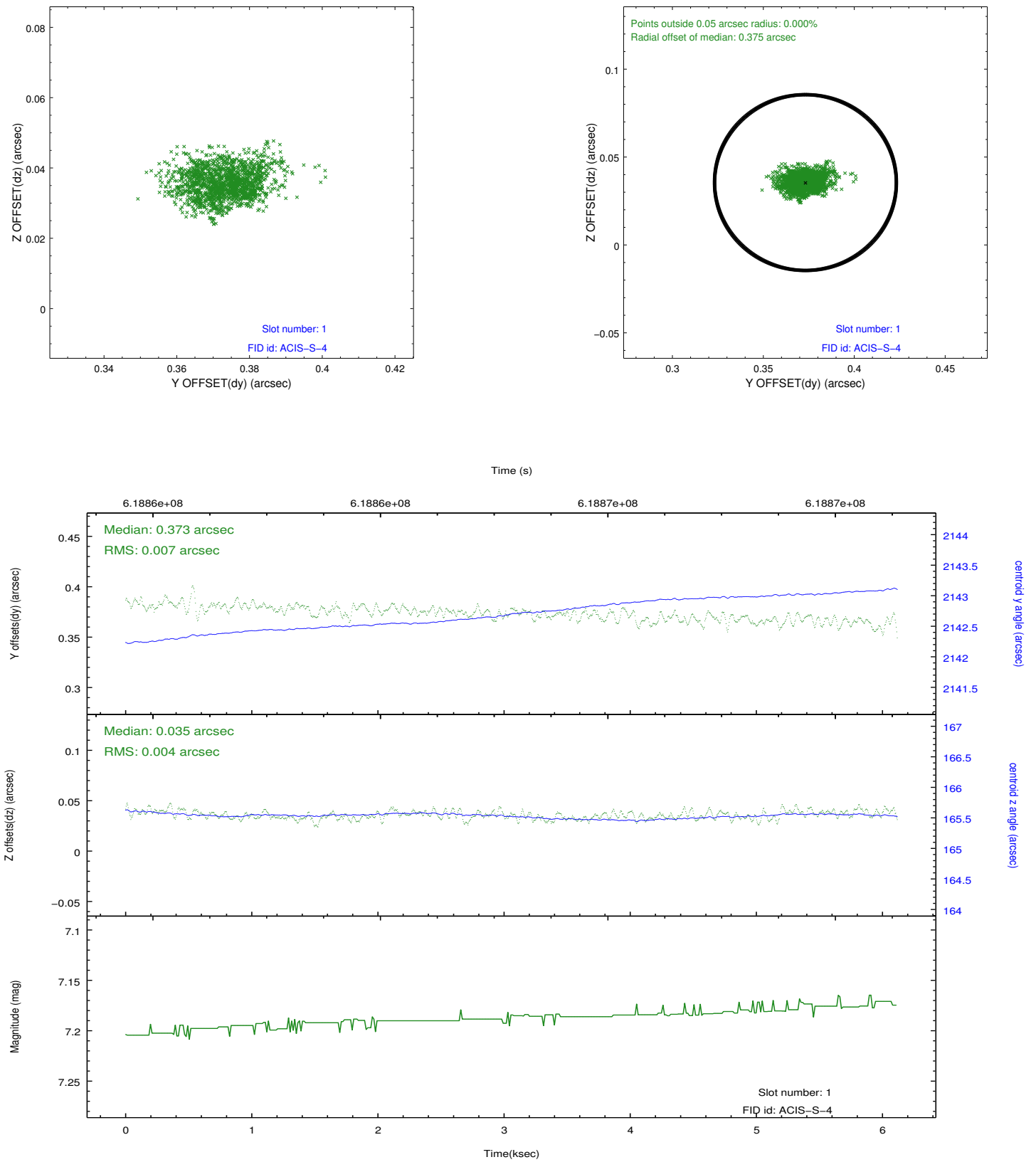


2.5 FID Slots

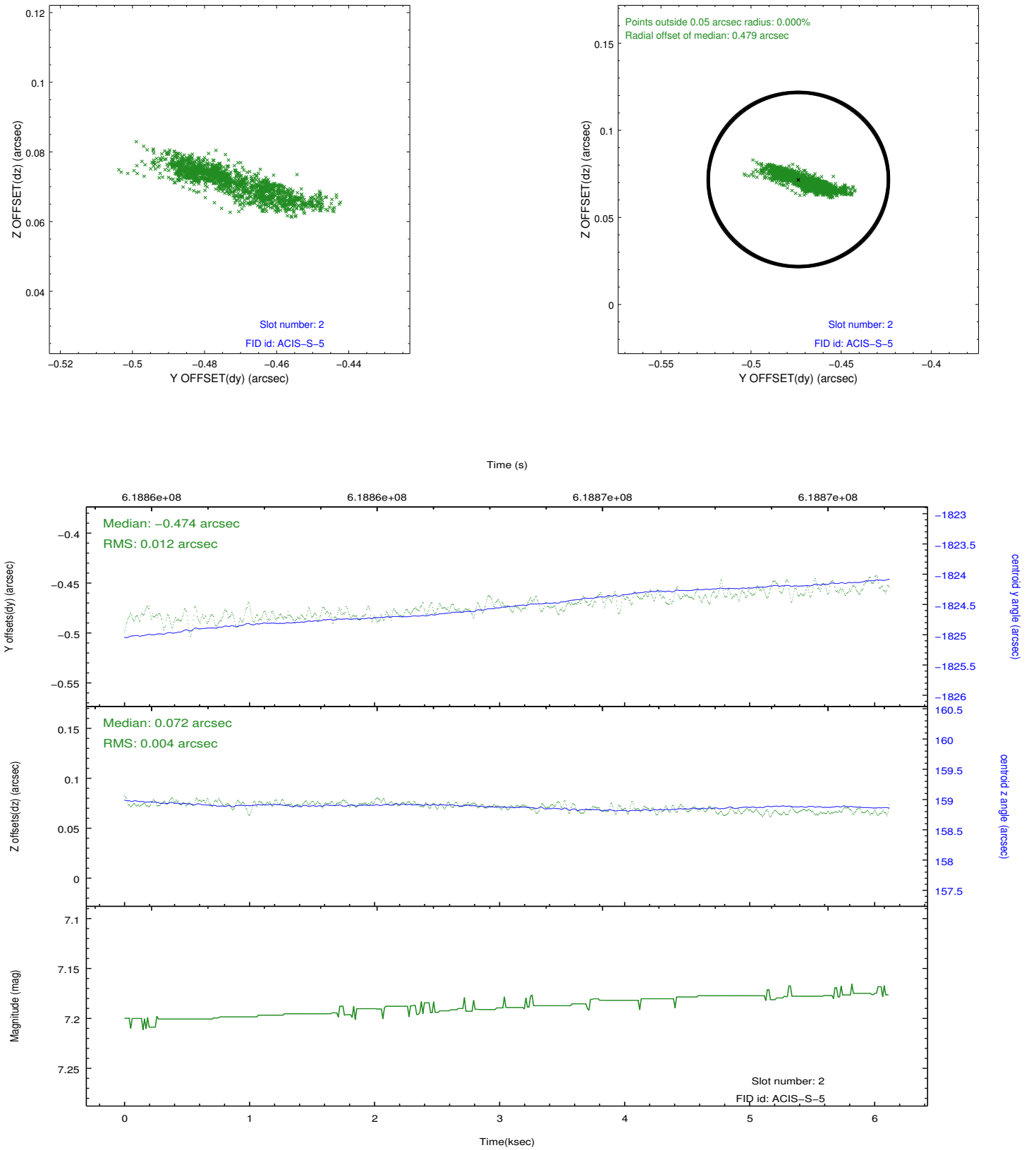
2.5.1 Slot 0



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)	2017.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9513168165684

A.2 Comments