

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18910 - L2 Version 1
Chandra X-Ray Center

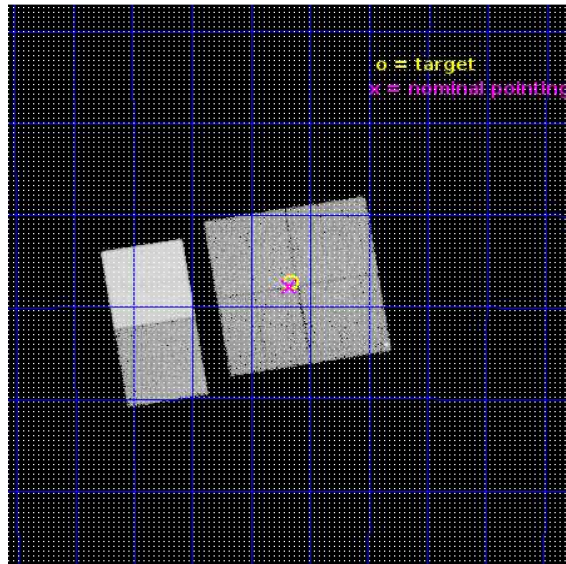
L2 Processing Date : Oct 13 2017

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1 Front

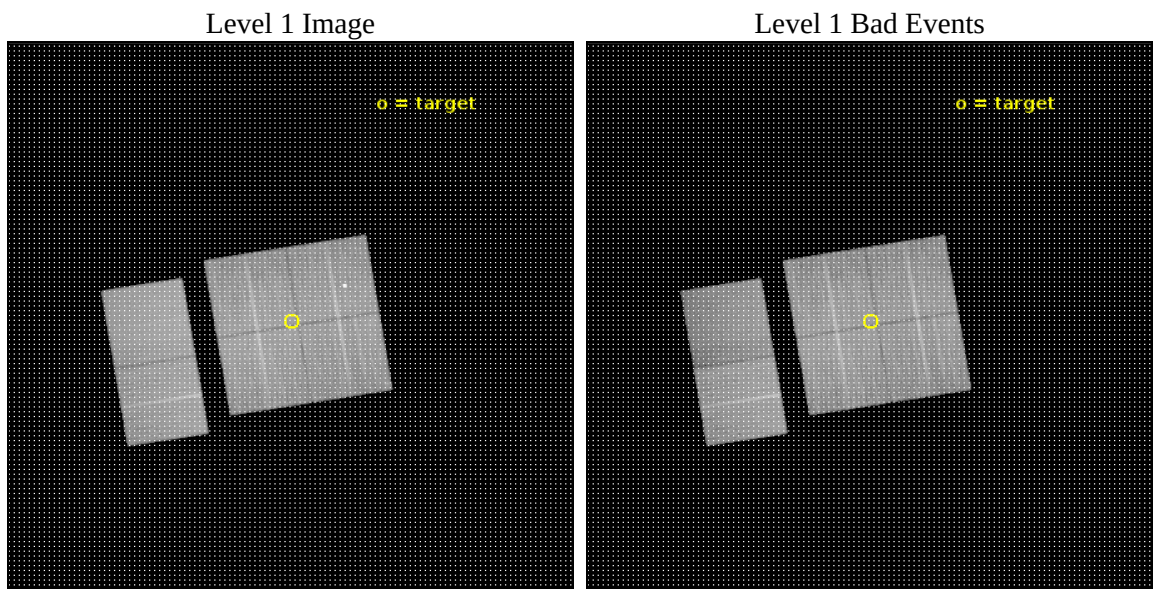
seq_num	201103	Sequence number
obs_id	18910	Observation id
title	X-raying the Bones of the Milky Way	Proposal title
observer	Leisa Townsley	Principal investigator
object	G352.557+0.744	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.915417	Observer's specified target RA [deg]
dec_targ	-34.788583	Observer's specified target Dec [deg]
ra_nom	260.91865811304	Nominal RA [deg]
dec_nom	-34.796991662132	Nominal Dec [deg]
roll_nom	260.64934417919	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39951.959595203	Sum of GTIs [s]
livetime	39446.063826627	Livetime [s]
ontime0	39955.200595379	Sum of GTIs [s]
ontime1	39955.200595379	Sum of GTIs [s]
ontime2	39955.200595379	Sum of GTIs [s]
ontime3	39951.959595203	Sum of GTIs [s]
ontime6	39948.718654394	Sum of GTIs [s]
ontime7	39955.200595379	Sum of GTIs [s]
l2events	243739	Number of level 2 events



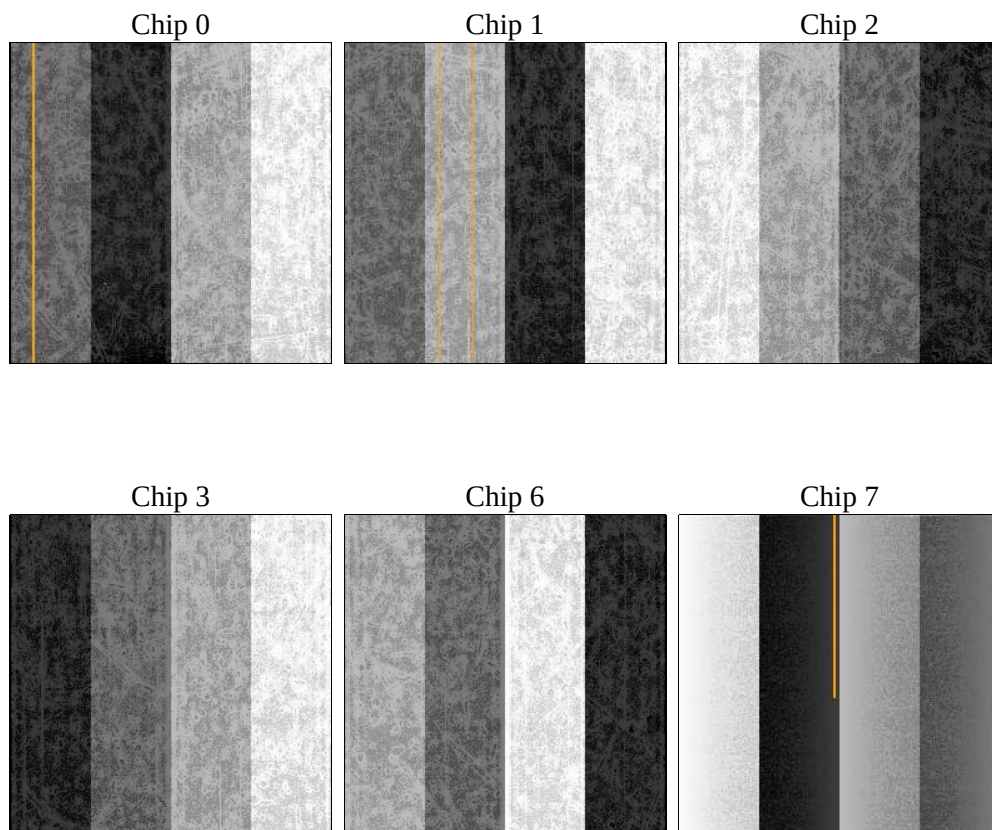
2 OBI

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	39951.959595203	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	39955.200595379	Sum of GTIs [s]
date	2017-10-13T21:24:11	Date and time of file creation	ontime1	39955.200595379	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	39955.200595379	Sum of GTIs [s]
			ontime3	39951.959595203	Sum of GTIs [s]
			ontime6	39948.718654394	Sum of GTIs [s]
			ontime7	39955.200595379	Sum of GTIs [s]
			l1events	1480604	Number of level 1 events

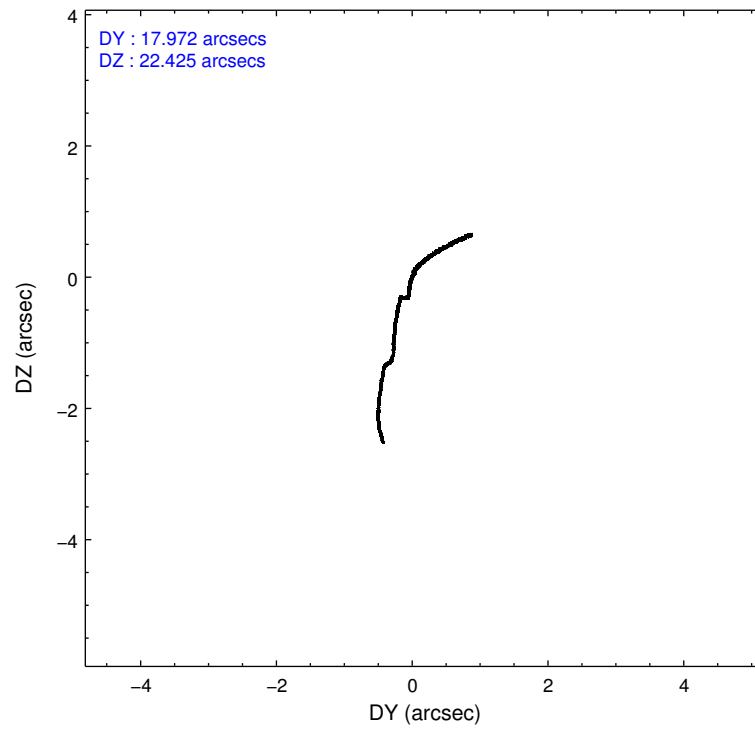
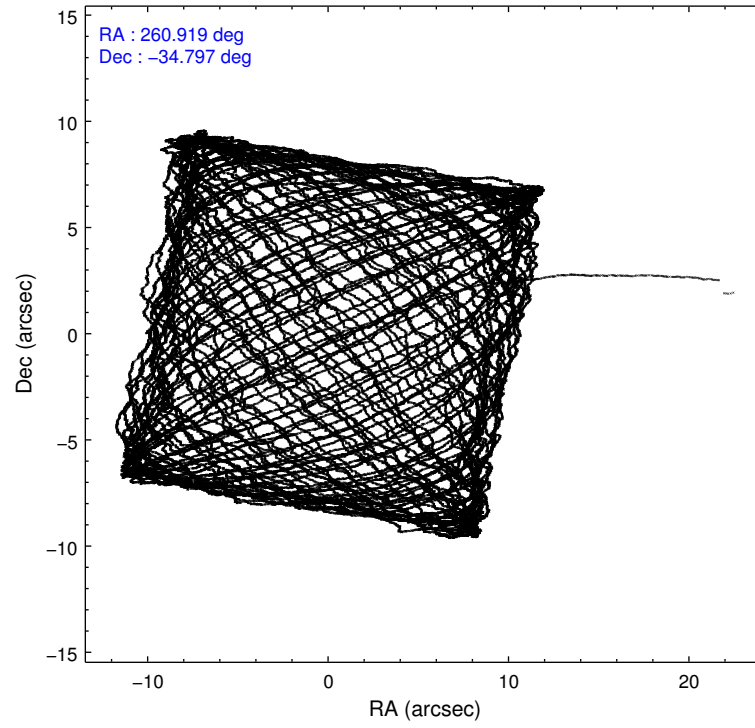
2.1.4 Events

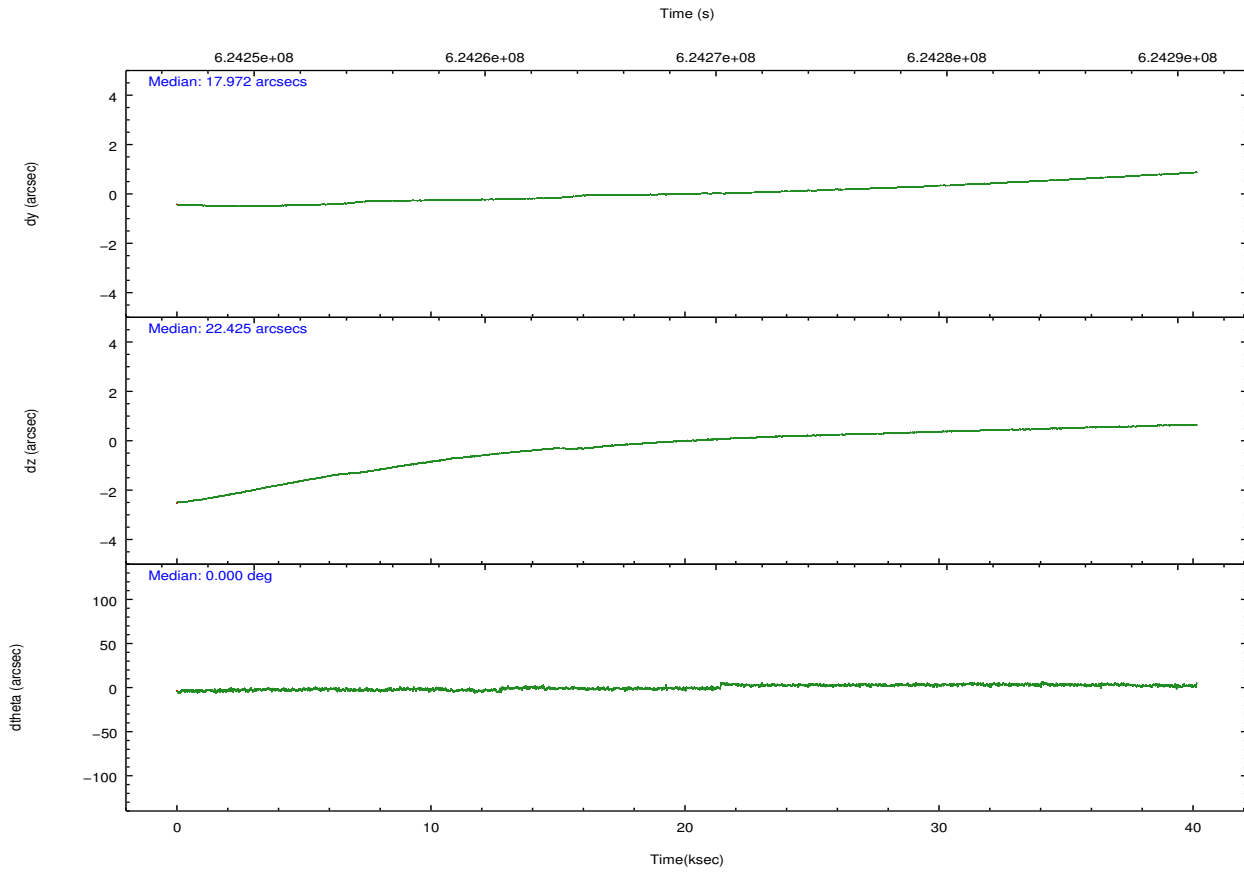
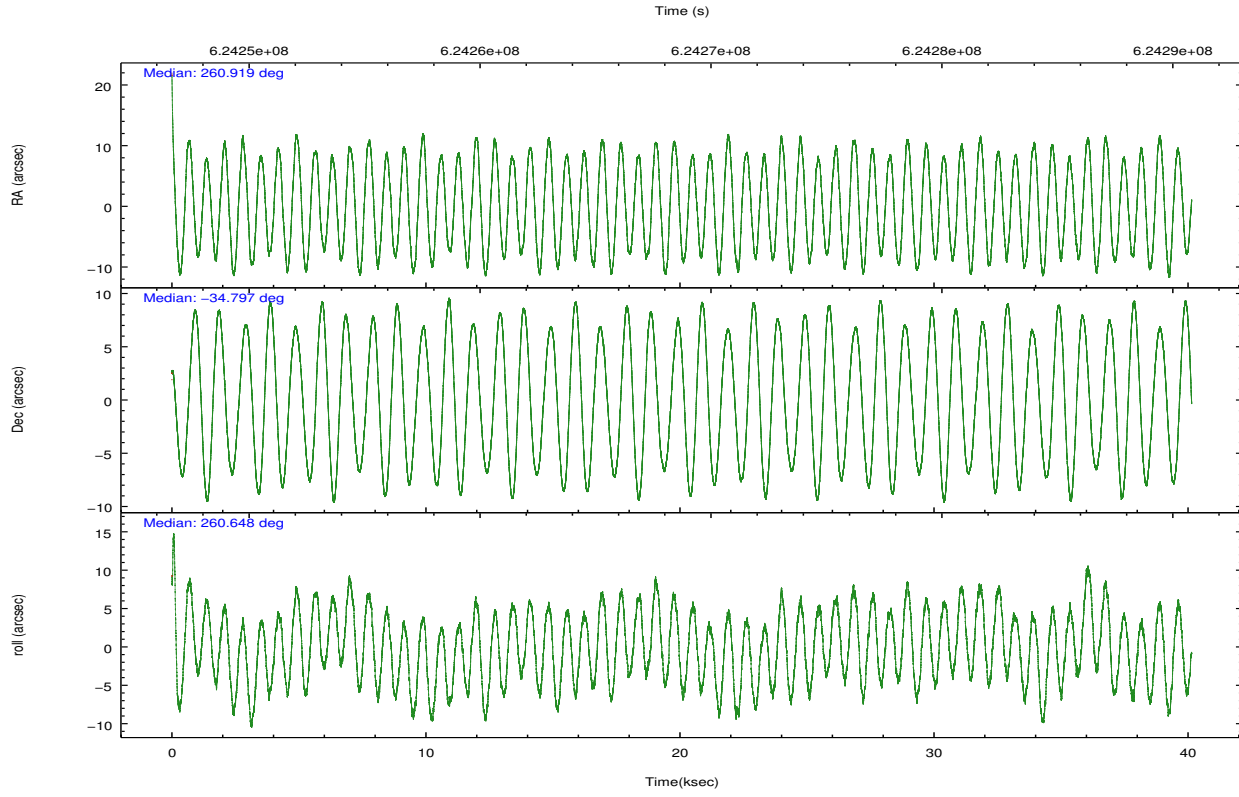
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	226424	234760	252648	234792	256646	275334	grade 0 events	10726	21775	10233	9782	10233	12454
rejected events	198089	194075	225619	208830	227692	143918		4%	9%	4%	4%	3%	4%
rejected %	87%	82%	89%	88%	88%	52%	grade 1 events	132	171	151	152	144	479
								0%	0%	0%	0%	0%	0%
							grade 2 events	6982	6990	6735	5727	6987	29207
								3%	2%	2%	2%	2%	10%
							grade 3 events	2747	2952	2584	2756	2756	11119
								1%	1%	1%	1%	1%	4%
							grade 4 events	2587	2762	2604	2644	2741	11072
								1%	1%	1%	1%	1%	4%
							grade 5 events	8719	9431	8156	10244	10179	28158
								3%	4%	3%	4%	3%	10%
							grade 6 events	5295	6210	4873	5056	6241	67587
								2%	2%	1%	2%	2%	24%
							grade 7 events	189236	184469	217312	198431	217365	115258
								83%	78%	86%	84%	84%	41%

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	260.906705	260.9186581130383	CCD I2 on	Y	Y
[deg] Pointing Dec	-34.771209	-34.79699166213248	CCD I3 on	Y	Y
[deg] Pointing Roll	260.433850	260.6493441791894	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	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	624248838.184000	624247692.69683	CCD S5 on	N	N
Observation start date	2017-10-13T02:26:09	2017-10-13T02:08:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	624288838.184000	624289751.52429	On-chip summing requested	N	N
Observation end date	2017-10-13T13:32:49	2017-10-13T13:49:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



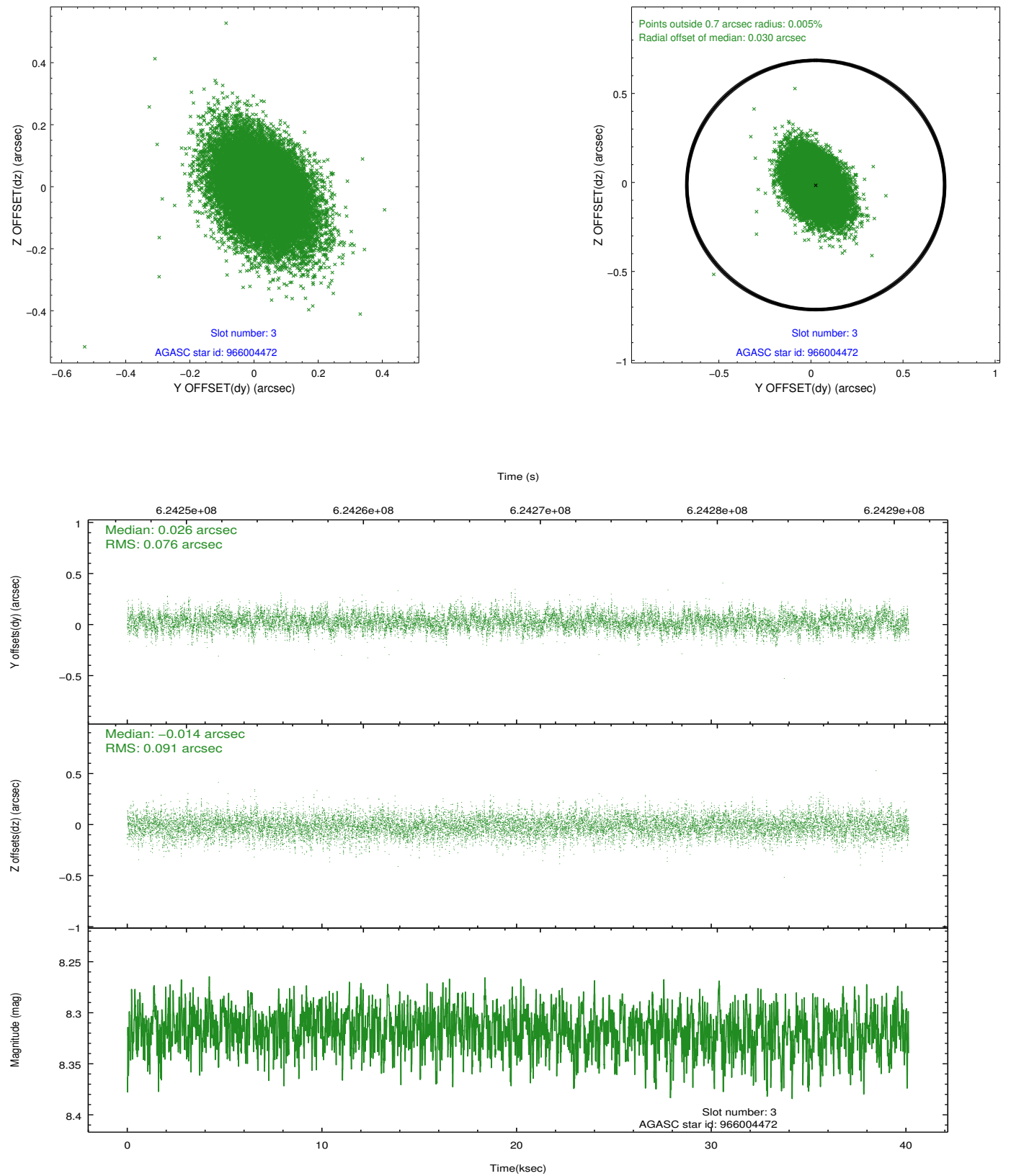


Slot Statistics

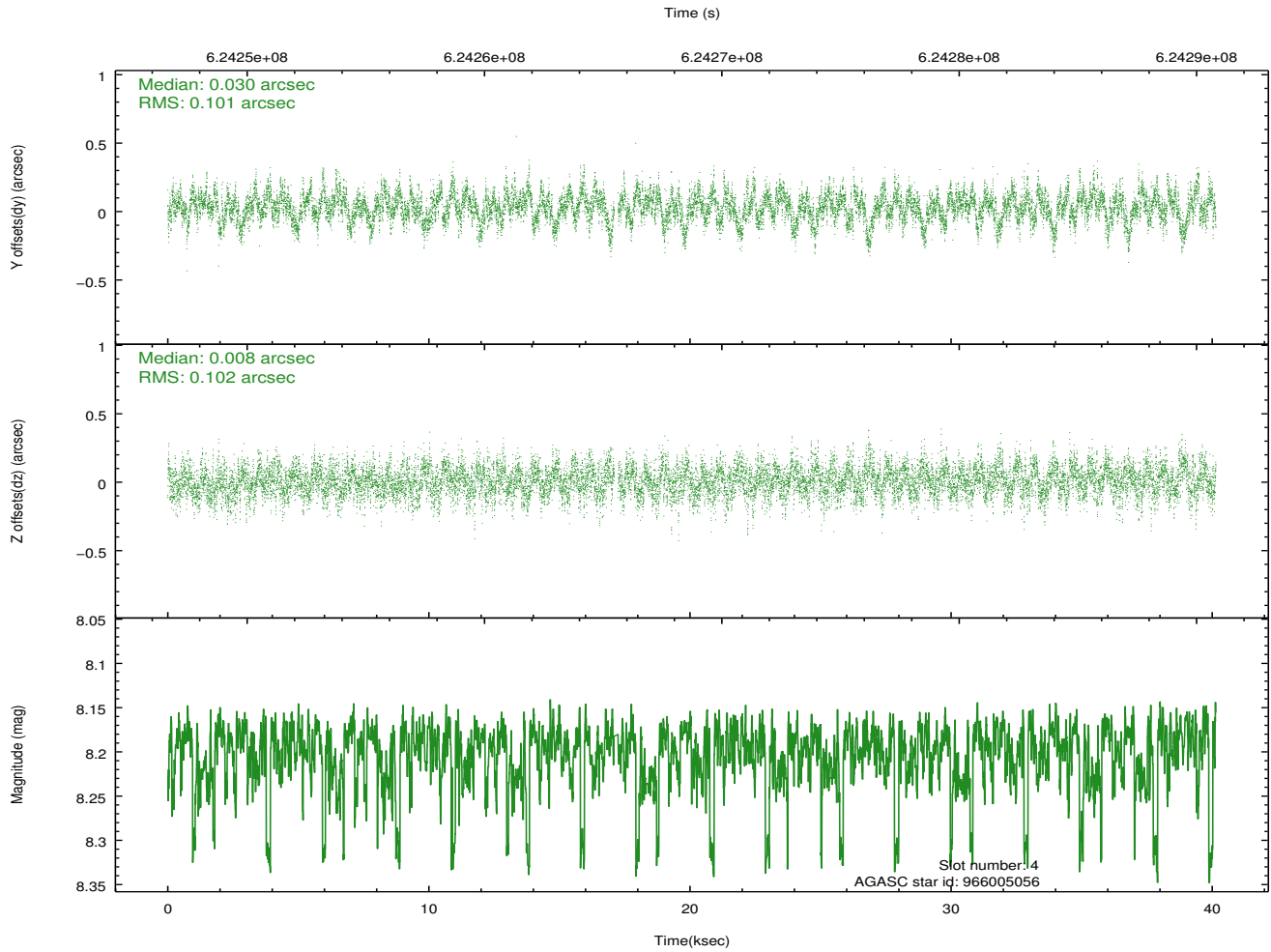
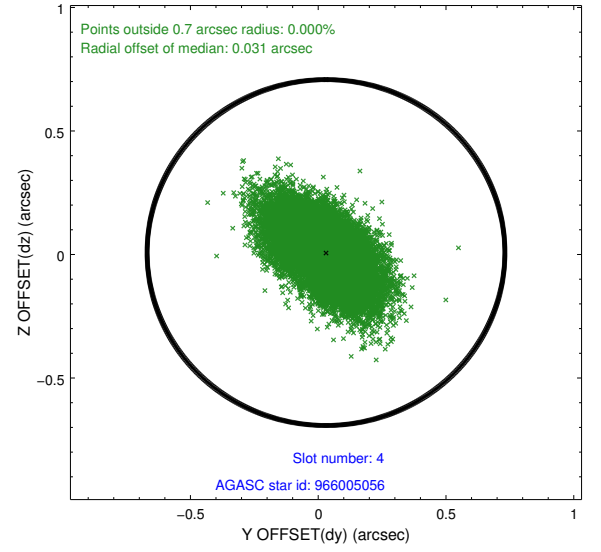
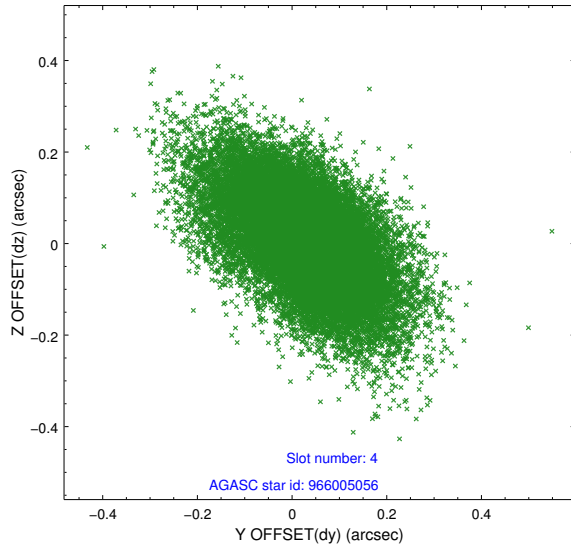
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	9791	-0.067	-0.023	0.050	0.064	0.000000	0.000000	921.24	-845.95
1	FID		ACIS-I-2	7.05	9790	-0.314	-0.168	0.022	0.032	0.000000	0.000000	-773.08	-852.47
2	FID		ACIS-I-4	7.09	9791	0.283	0.256	0.030	0.045	0.000000	0.000000	2141.56	1054.07
3	GUIDE	used	966004472	8.32	19578	0.026	-0.014	0.122	0.211	260.641543	-35.382088	2300.76	-401.14
4	GUIDE	used	966005056	8.20	19501	0.030	0.008	0.148	0.260	260.445624	-35.348497	2278.95	-989.03
5	GUIDE	used	966006920	9.00	19560	-0.098	0.026	0.160	0.273	260.682234	-35.307124	2013.38	-329.28
6	GUIDE	used	967706432	6.70	19583	0.485	0.011	0.116	0.209	261.306065	-34.429958	-1405.05	965.83
7	GUIDE	used	967708760	7.40	19580	-0.449	-0.021	0.117	0.204	261.328301	-34.249213	-2058.83	925.73

2.4 Star Slots

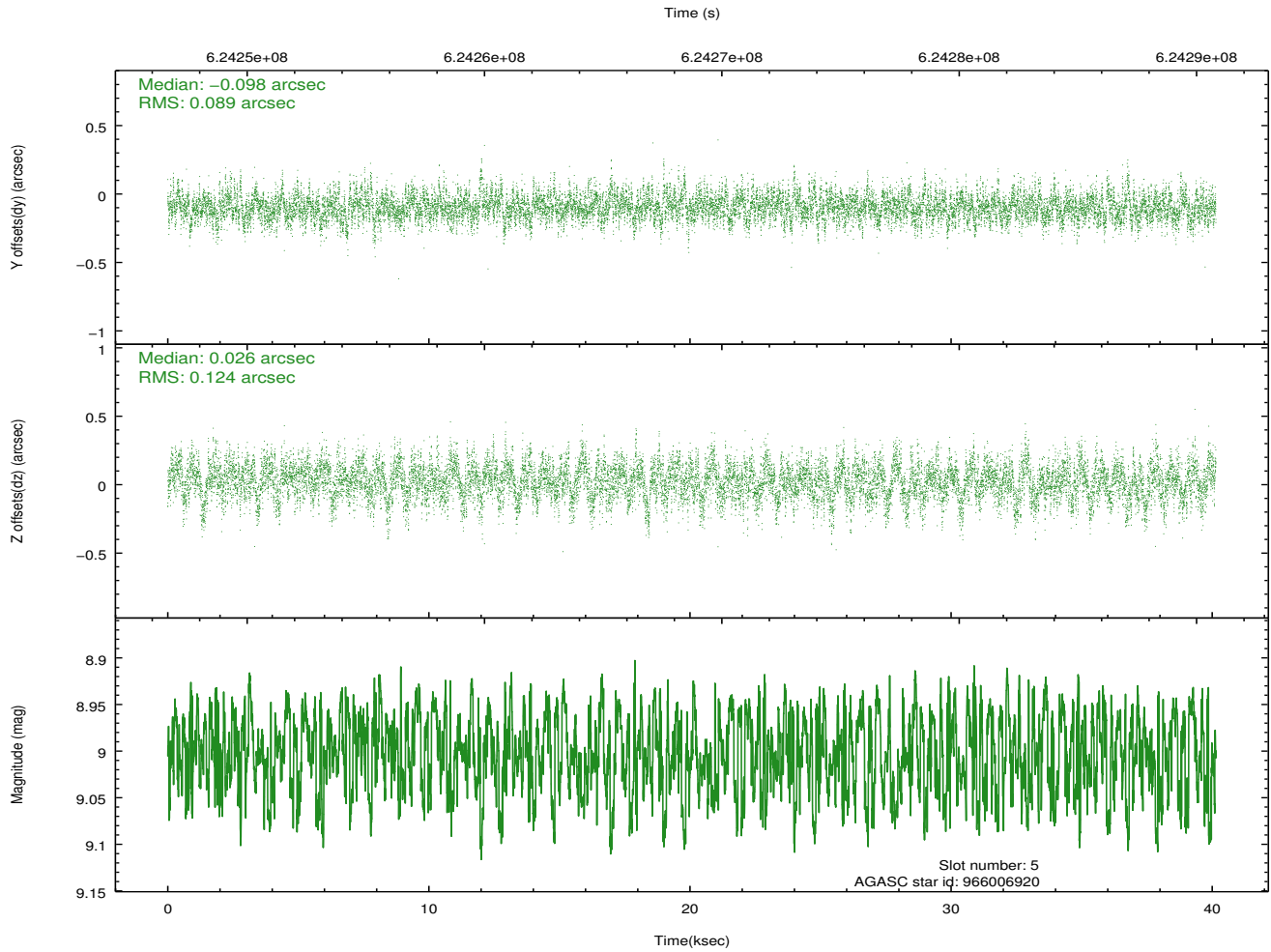
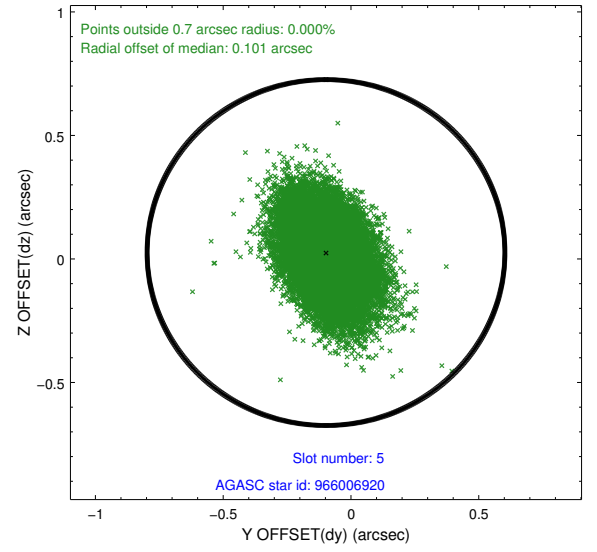
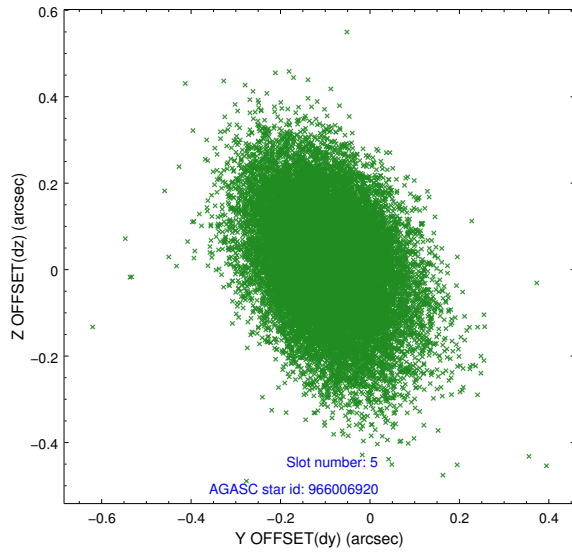
2.4.1 Slot 3



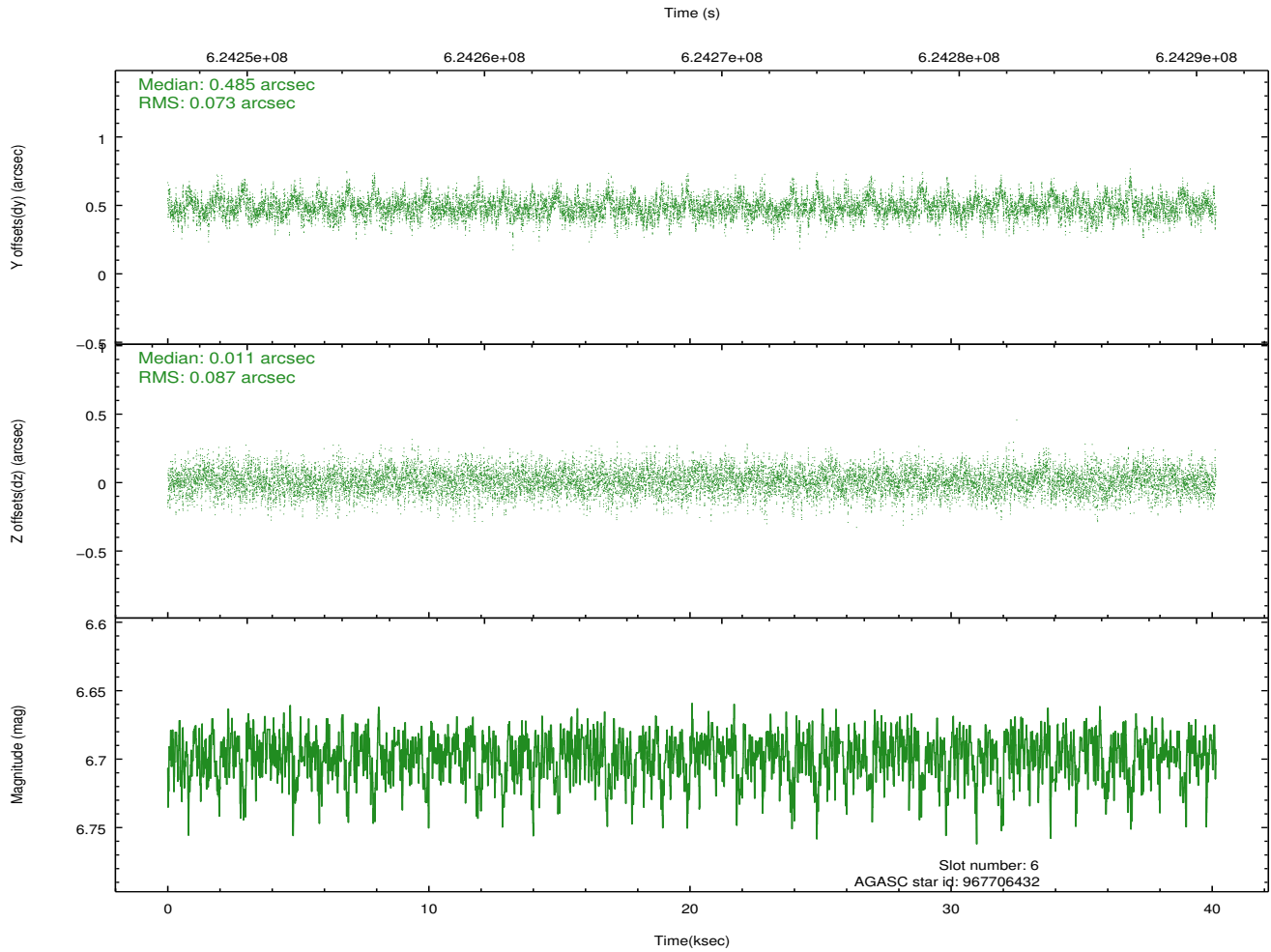
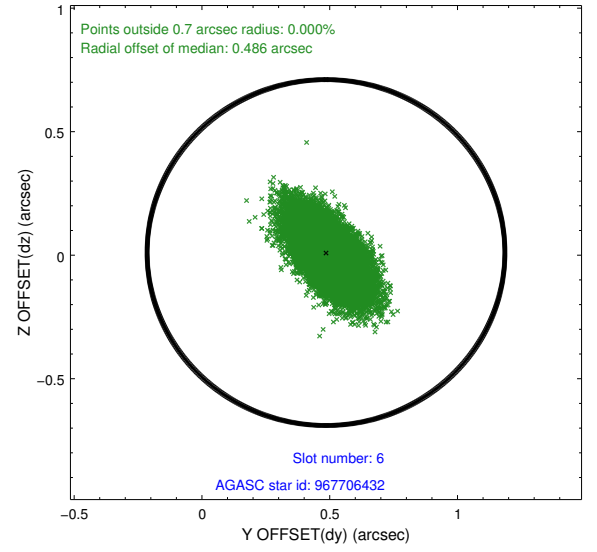
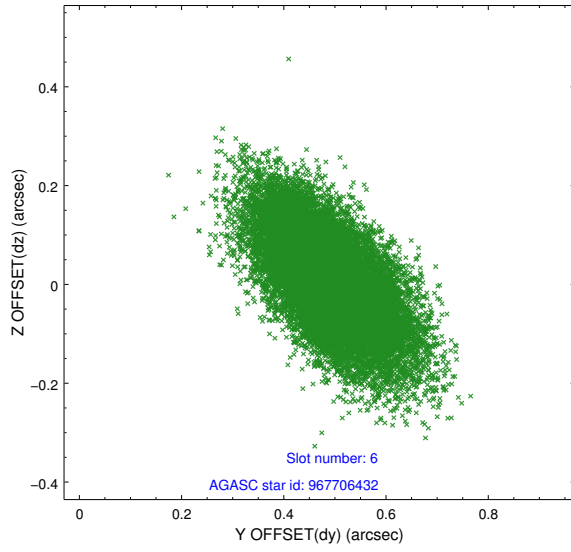
2.4.2 Slot 4



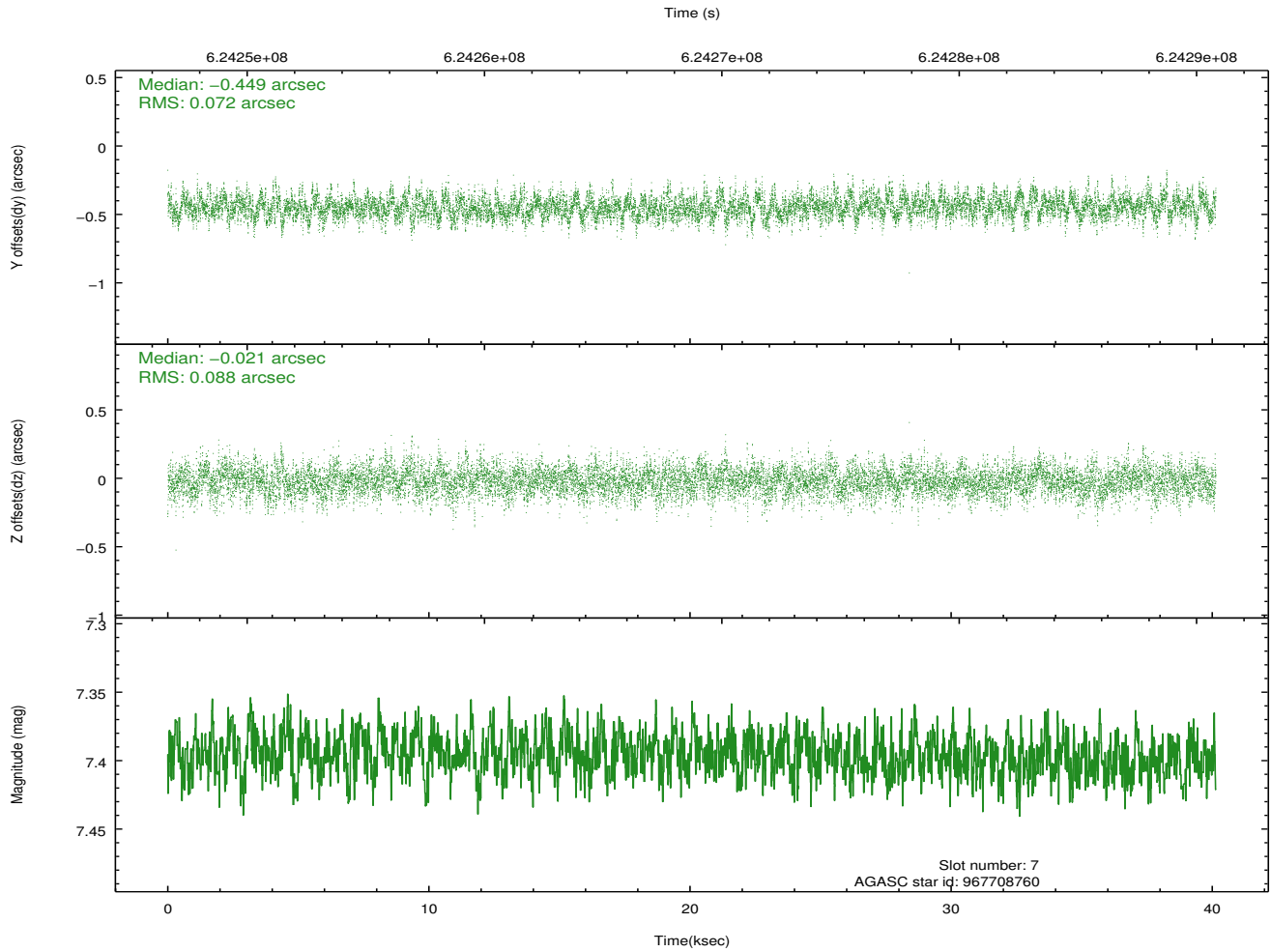
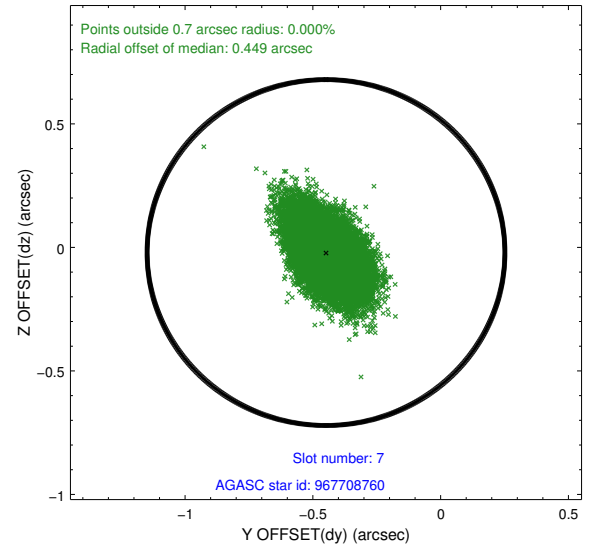
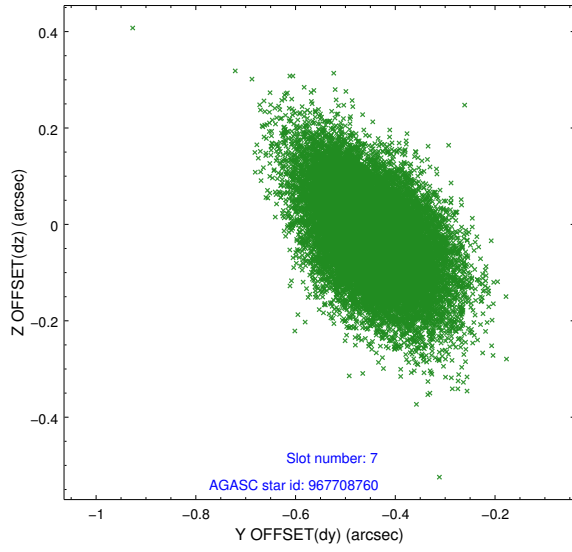
2.4.3 Slot 5



2.4.4 Slot 6

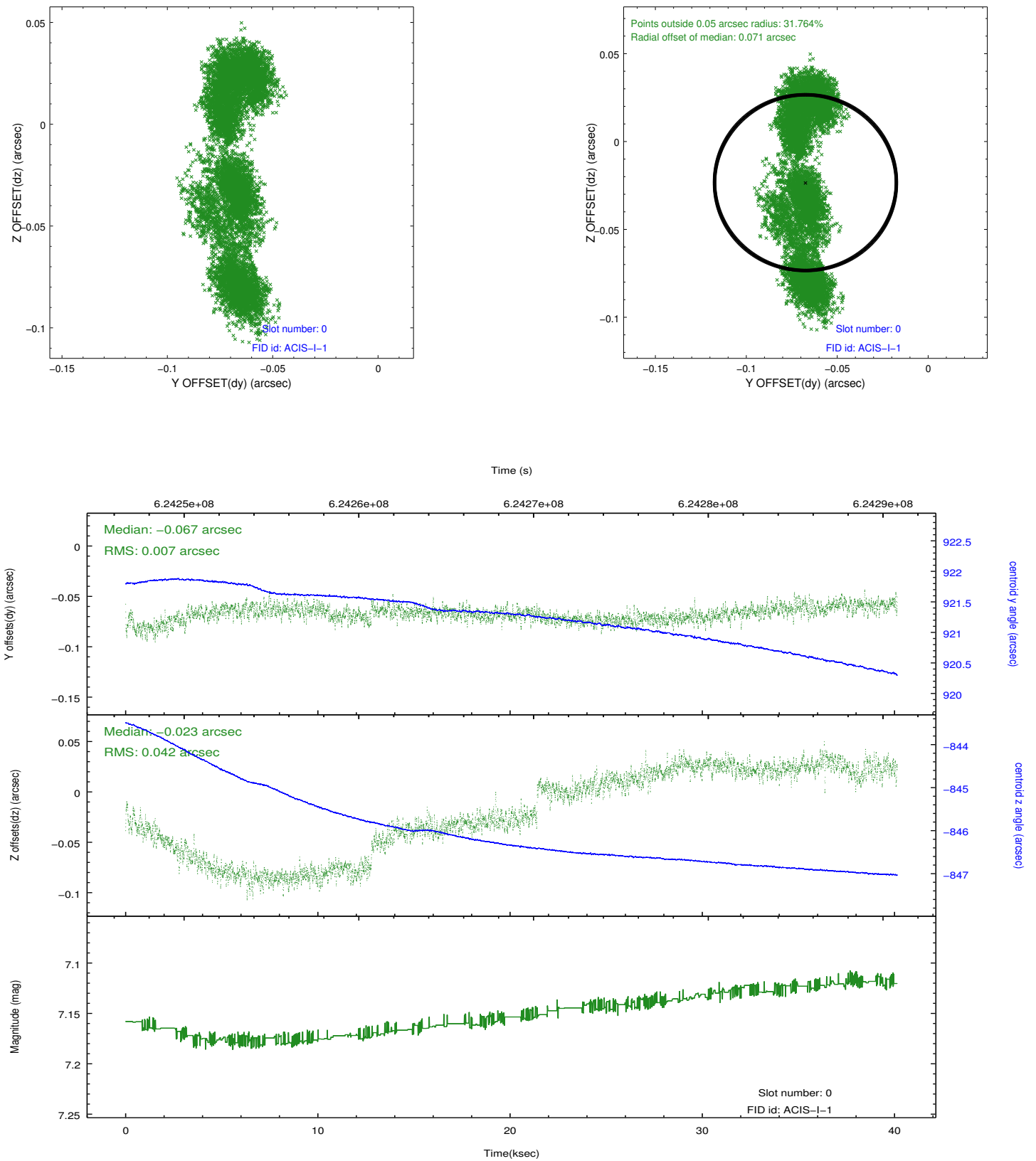


2.4.5 Slot 7

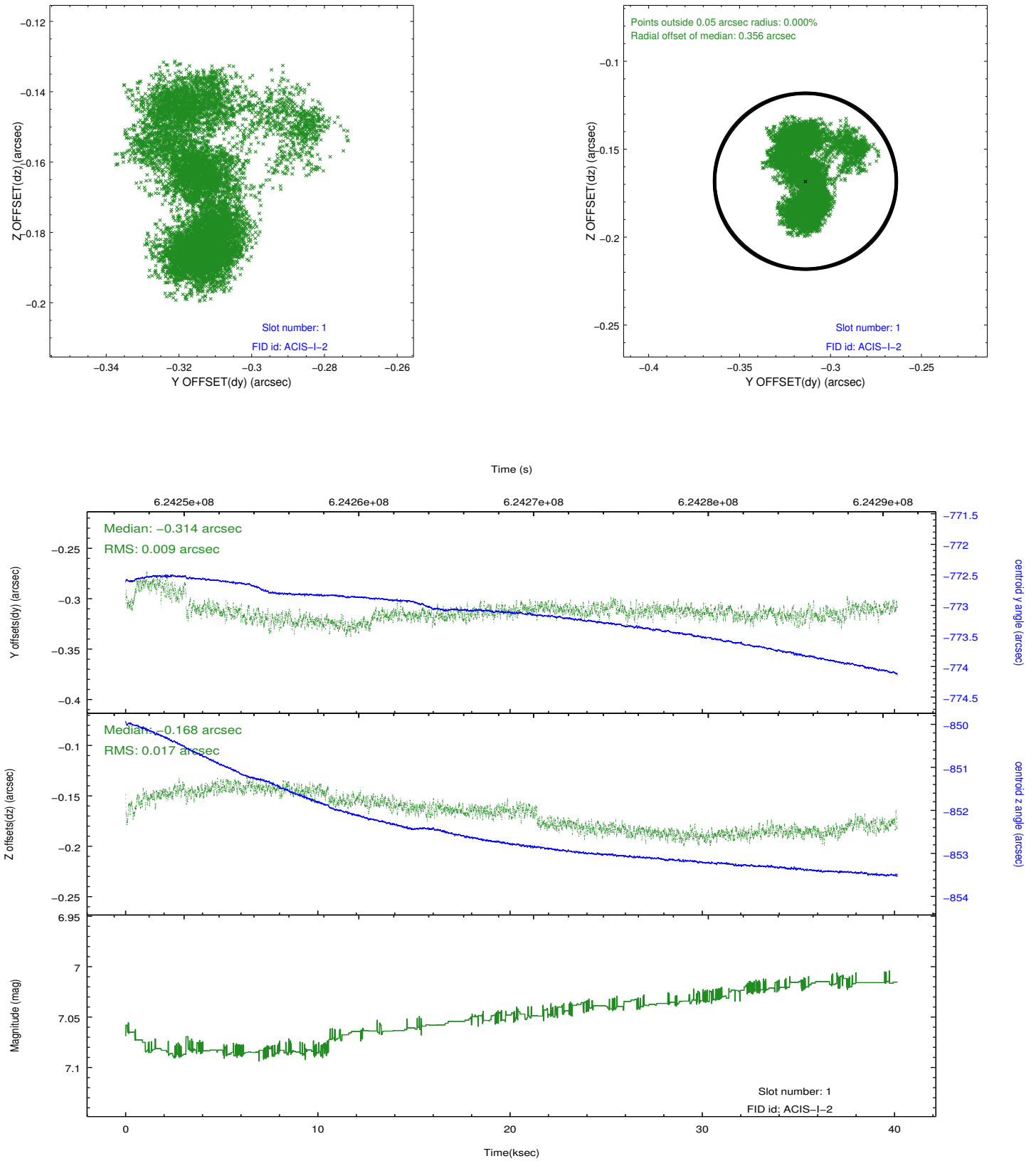


2.5 FID Slots

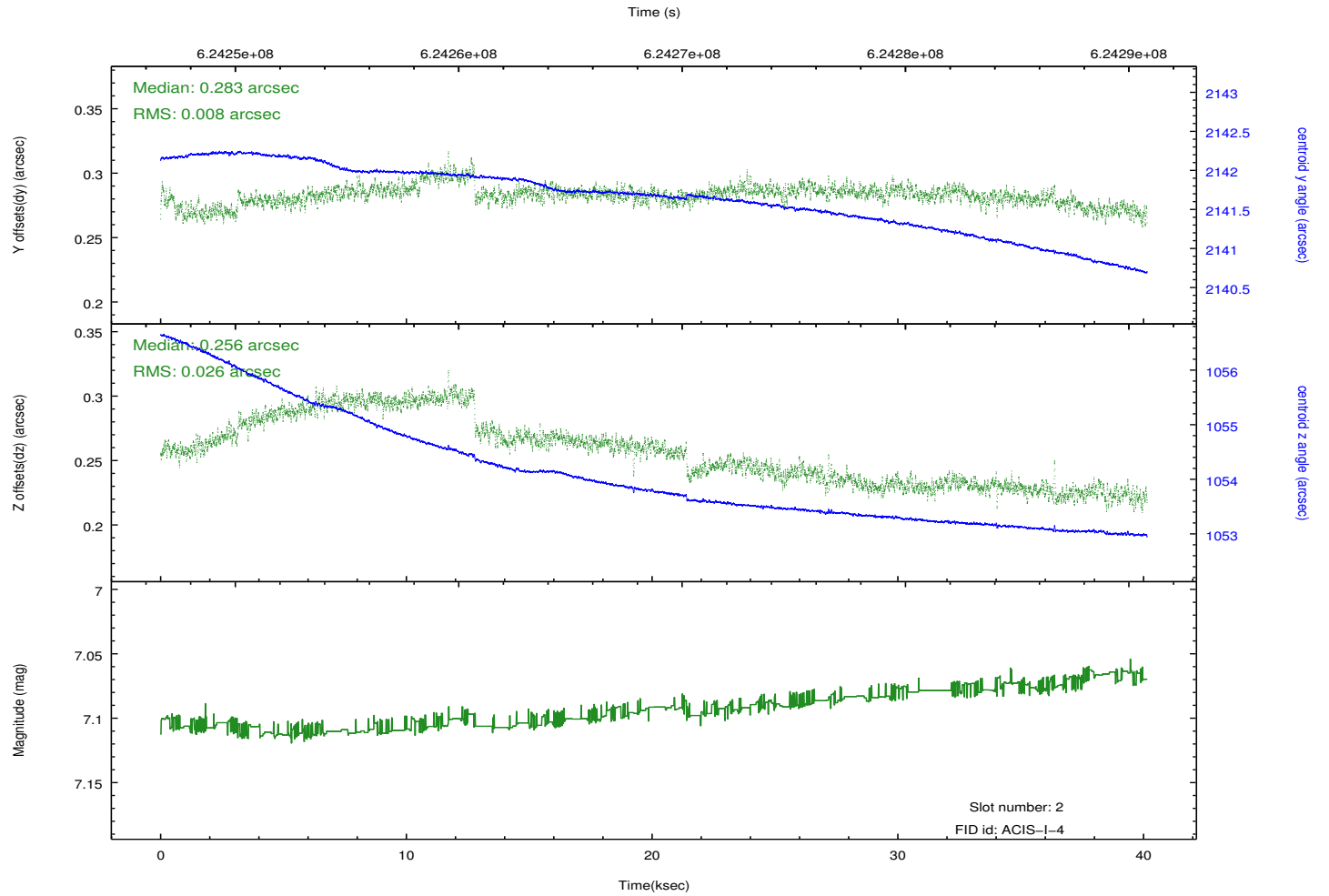
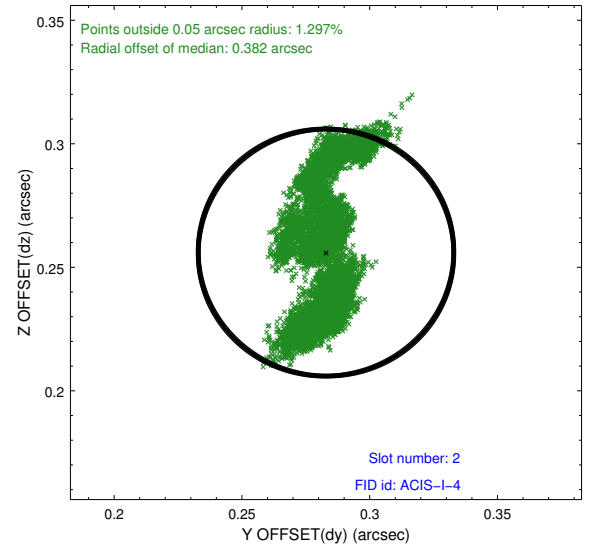
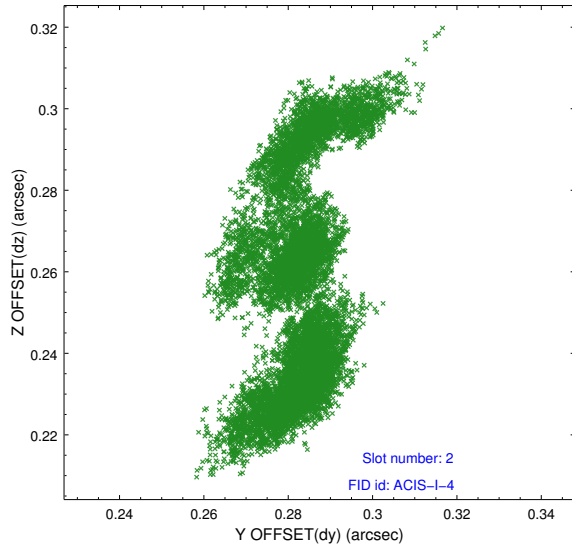
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.951959595203

A.2 Comments