

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23138 - L2 Version 1
Chandra X-Ray Center

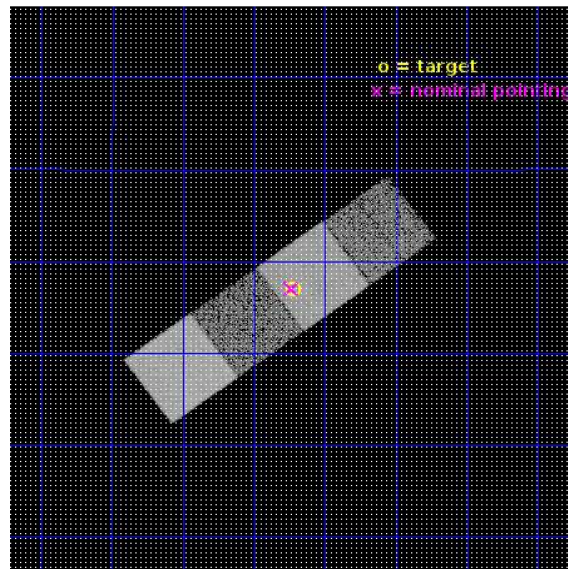
L2 Processing Date : Feb 3 2020

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1 Front

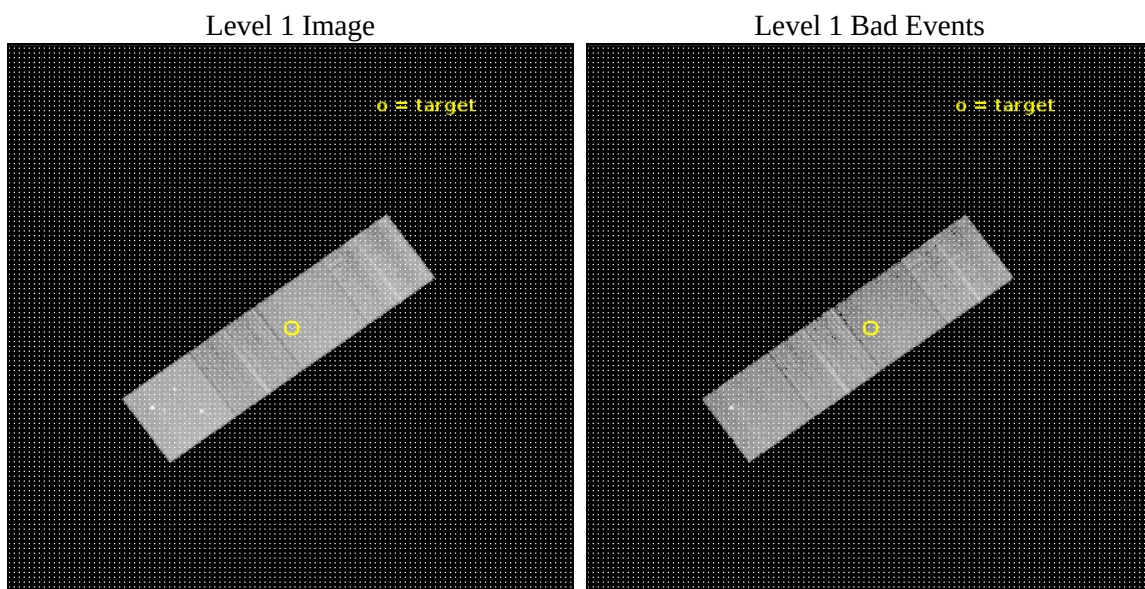
seq_num	704037	Sequence number
obs_id	23138	Observation id
title	Calibration of the quasar Hubble diagram with z	Proposal title
observer	Francesca Civano	Principal investigator
object	SDSSJ083343.47+074654.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.431152	Observer's specified target RA [deg]
dec_targ	7.781805	Observer's specified target Dec [deg]
ra_nom	128.43416715896	Nominal RA [deg]
dec_nom	7.7837505000739	Nominal Dec [deg]
roll_nom	324.00024561949	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10062.60007751	Sum of GTIs [s]
liveltime	9931.1247995188	Livetime [s]
ontime5	10062.60007751	Sum of GTIs [s]
ontime6	10062.60007751	Sum of GTIs [s]
ontime7	10062.60007751	Sum of GTIs [s]
ontime8	10062.60007751	Sum of GTIs [s]
l2events	116630	Number of level 2 events



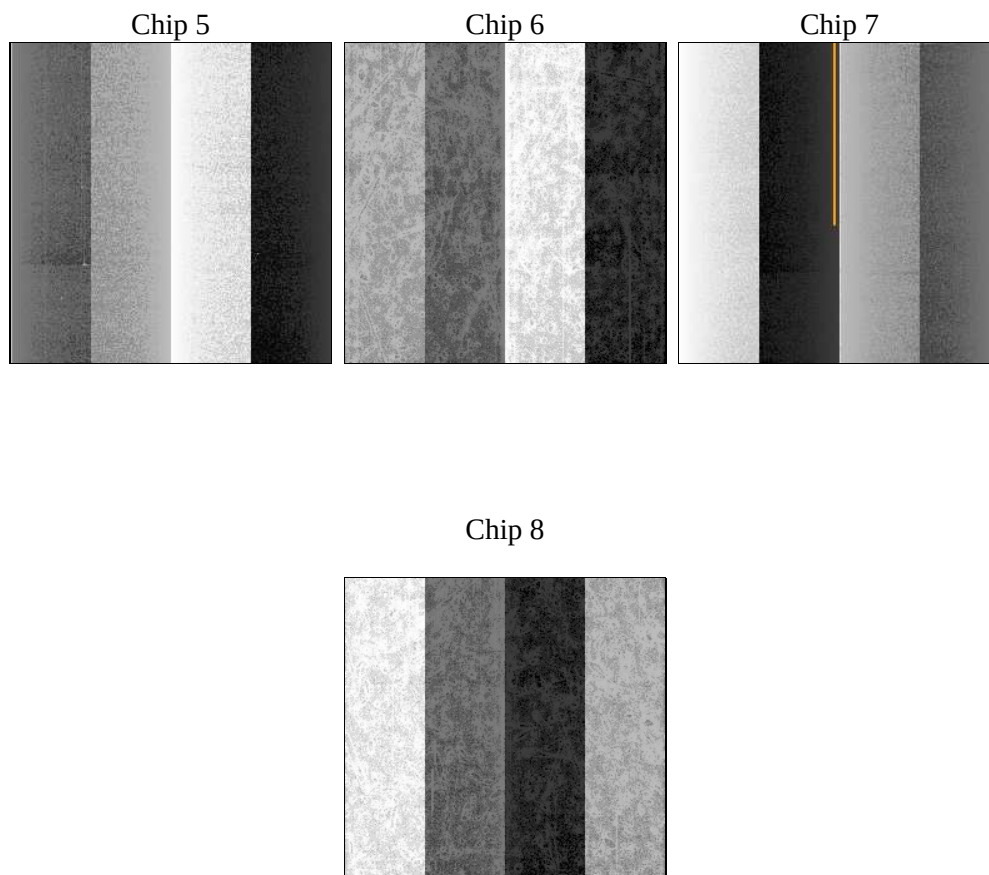
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	10062.60007751	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime5	10062.60007751	Sum of GTIs [s]
date	2020-02-03T05:37:35	Date and time of file creation	ontime6	10062.60007751	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10062.60007751	Sum of GTIs [s]
			ontime8	10062.60007751	Sum of GTIs [s]
			l1events	407924	Number of level 1 events

2.1.4 Events

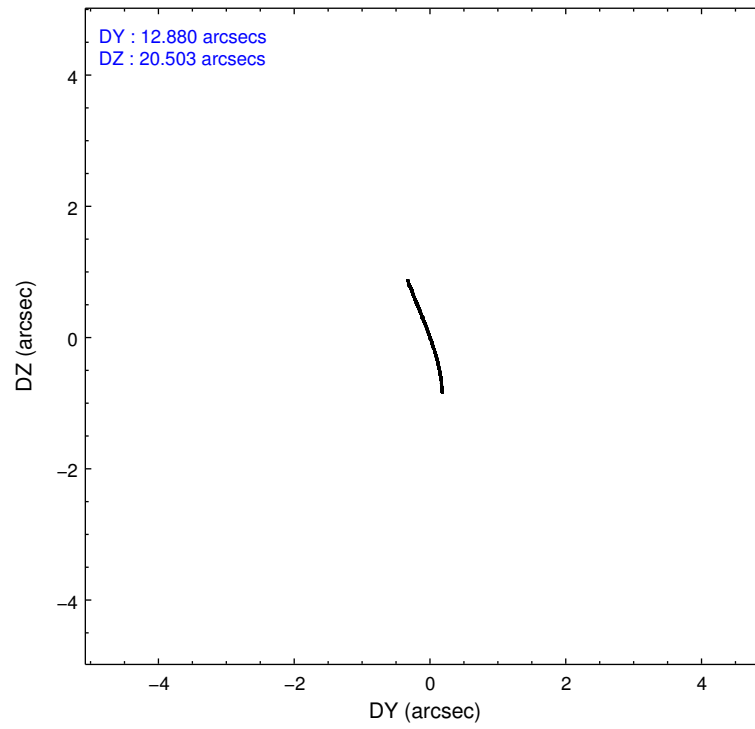
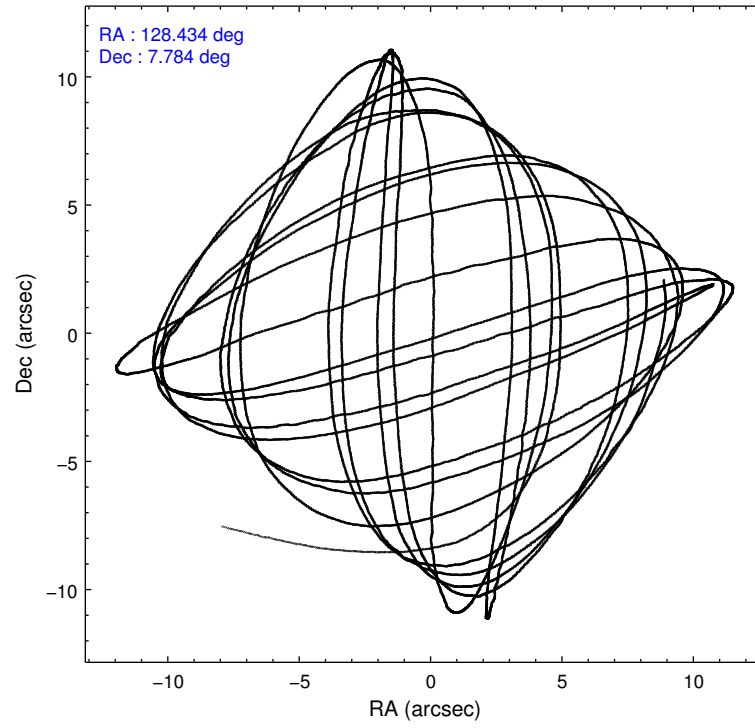
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	127871	77949	99963	102141
rejected events	65253	69042	56287	73568
rejected %	51%	88%	56%	72%

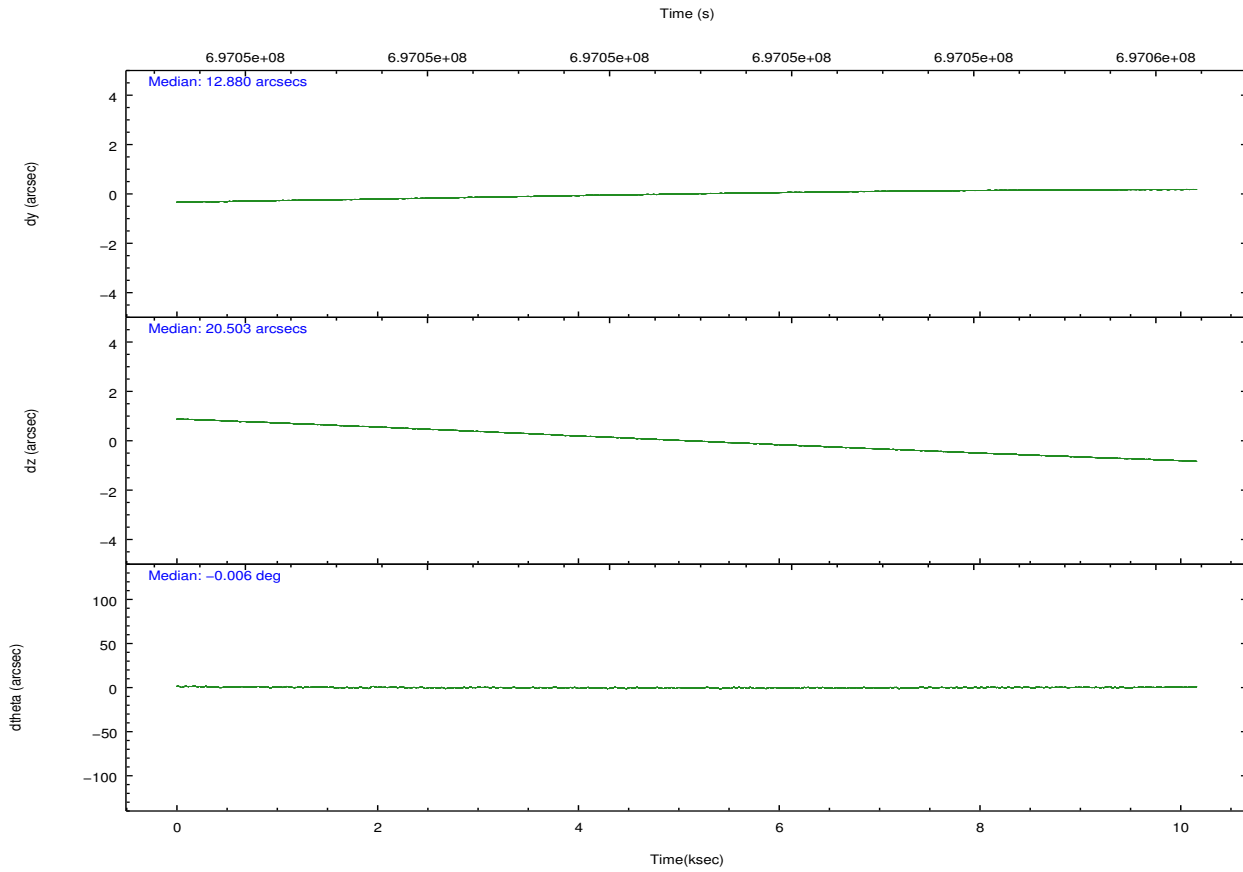
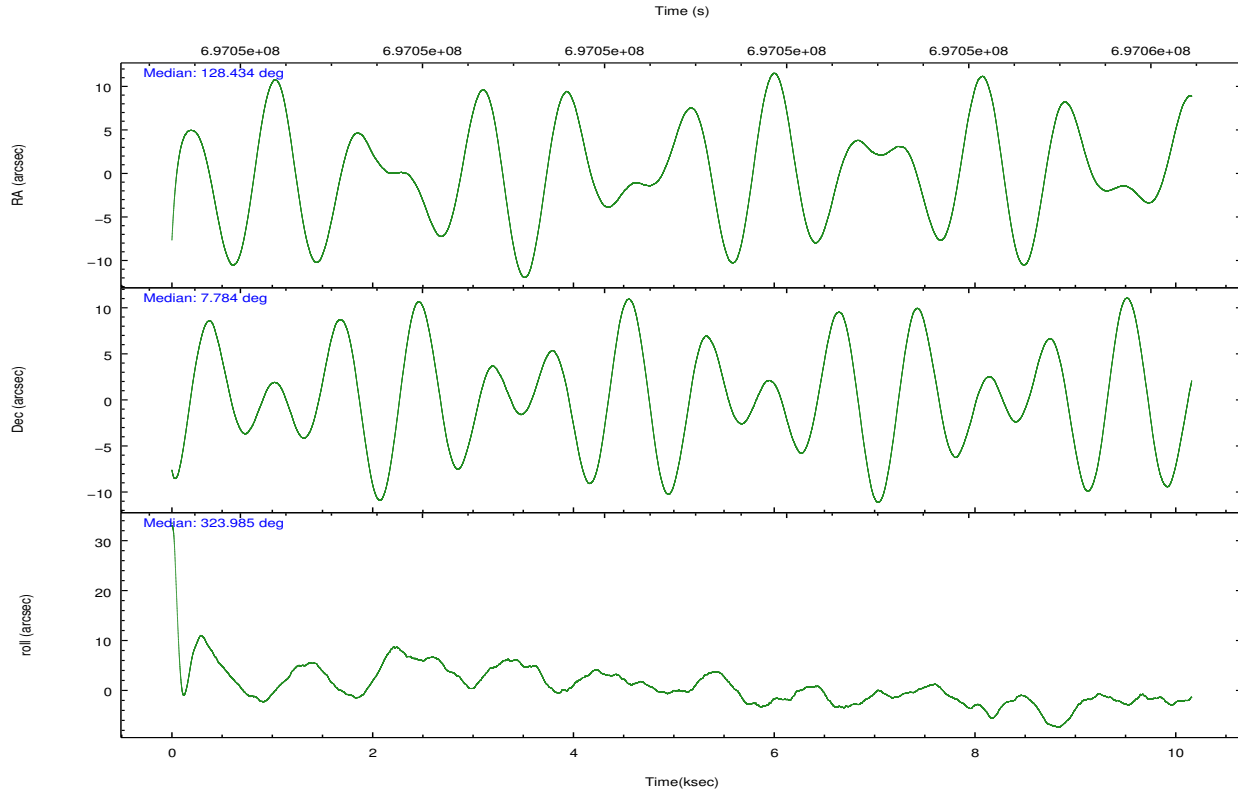
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6533	2972	3660	8219
	5%	3%	3%	8%
grade 1 events	294	52	129	93
	0%	0%	0%	0%
grade 2 events	19879	2134	9514	6910
	15%	2%	9%	6%
grade 3 events	1859	884	3443	2898
	1%	1%	3%	2%
grade 4 events	1755	859	3352	2772
	1%	1%	3%	2%
grade 5 events	8927	3618	9886	5719
	6%	4%	9%	5%
grade 6 events	32609	2061	23716	7777
	25%	2%	23%	7%
grade 7 events	56015	65369	46263	67753
	43%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	128.406569	128.4341671589619	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.786273	7.783750500073877	Alternating exposures requested	N	N
[deg] Pointing Roll	323.847312	324.0002456194949	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	697045938.184000	697044572.15118			
Observation start date	2020-02-02T15:51:09	2020-02-02T15:29:32			
[s] Observation end time (MET)	697055938.184000	697057145.31444			
Observation end date	2020-02-02T18:37:49	2020-02-02T18:59:05			
Read mode	TIMED	TIMED			

2.3 Aspect



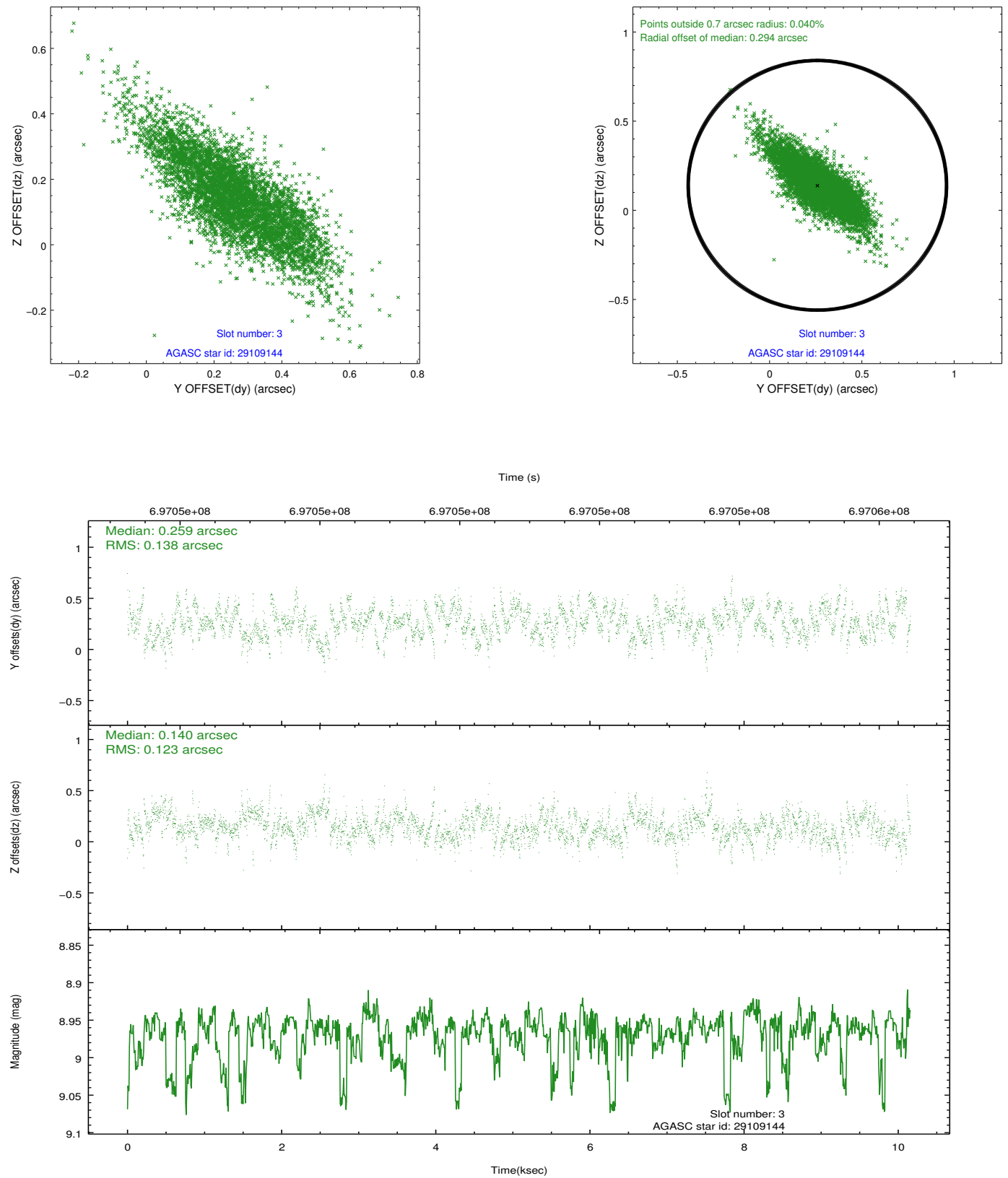


Slot Statistics

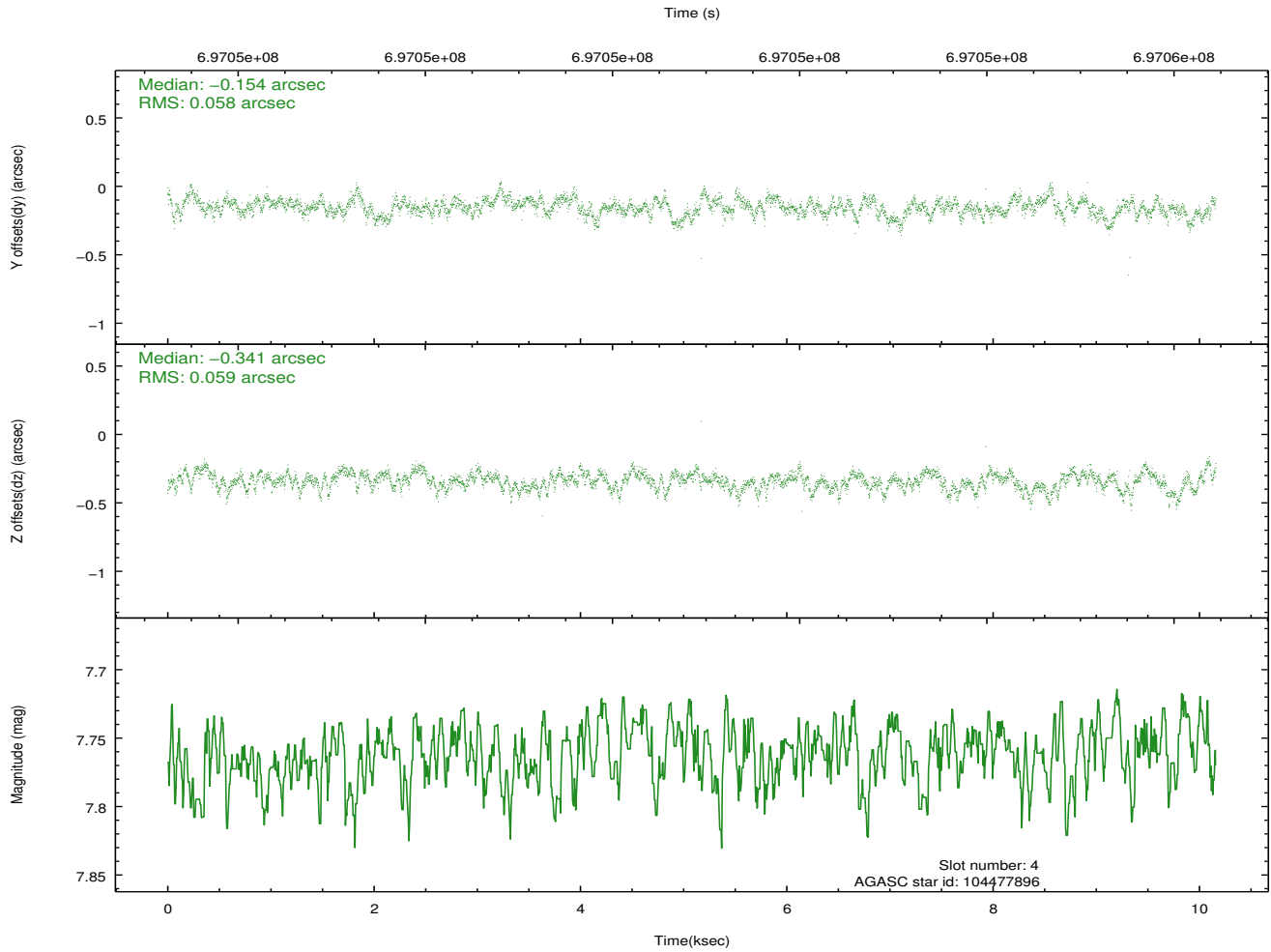
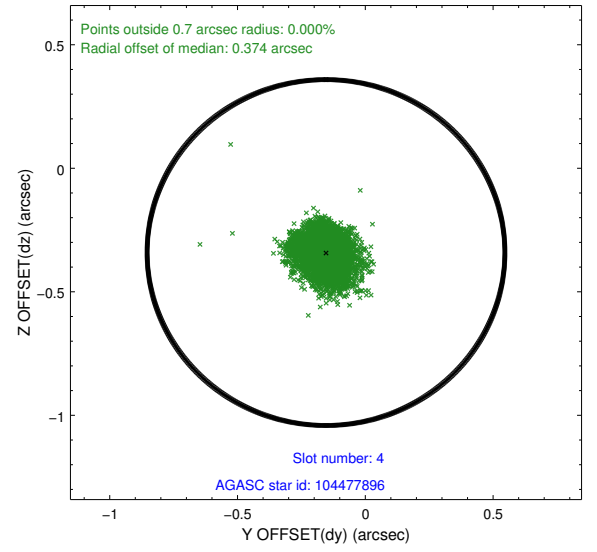
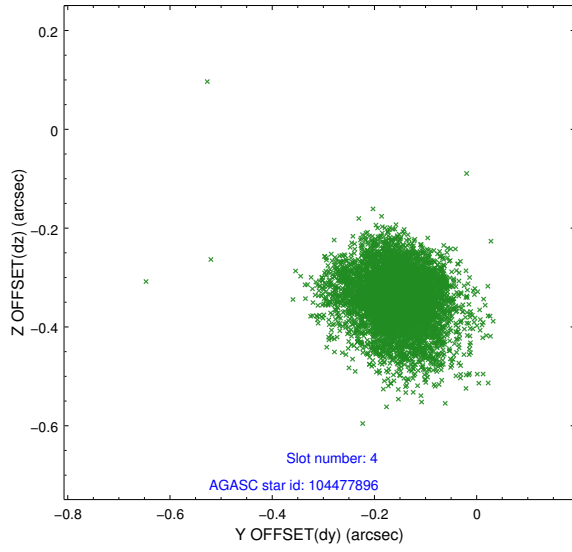
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.25	2478	1.000	-0.225	-0.200	0.012	0.021	0.000000	0.000000	47.28	-1871
1	FID		ACIS-S-4	7.13	2478	1.000	0.646	0.211	0.022	0.046	0.000000	0.000000	2148.24	166
2	FID		ACIS-S-5	7.10	2478	1.000	-0.449	-0.002	0.030	0.052	0.000000	0.000000	-1818.39	160
3	GUIDE	used	29109144	8.97	4952	1.000	0.259	0.140	0.188	0.337	128.543294	6.920007	2235.20	-2229
4	GUIDE	used	104477896	7.76	4957	1.000	-0.154	-0.341	0.088	0.143	128.929327	7.619591	1859.64	615
5	GUIDE	used	104478544	7.75	4956	1.000	-0.160	-0.260	0.095	0.158	129.047940	7.723579	1979.76	1168
6	GUIDE	used	104478656	9.12	4952	1.000	0.017	0.624	0.184	0.338	128.409387	7.695522	202.36	-258
7	GUIDE	used	104475704	9.04	4946	1.000	0.024	-0.154	0.124	0.204	128.946333	8.179105	717.04	2276

2.4 Star Slots

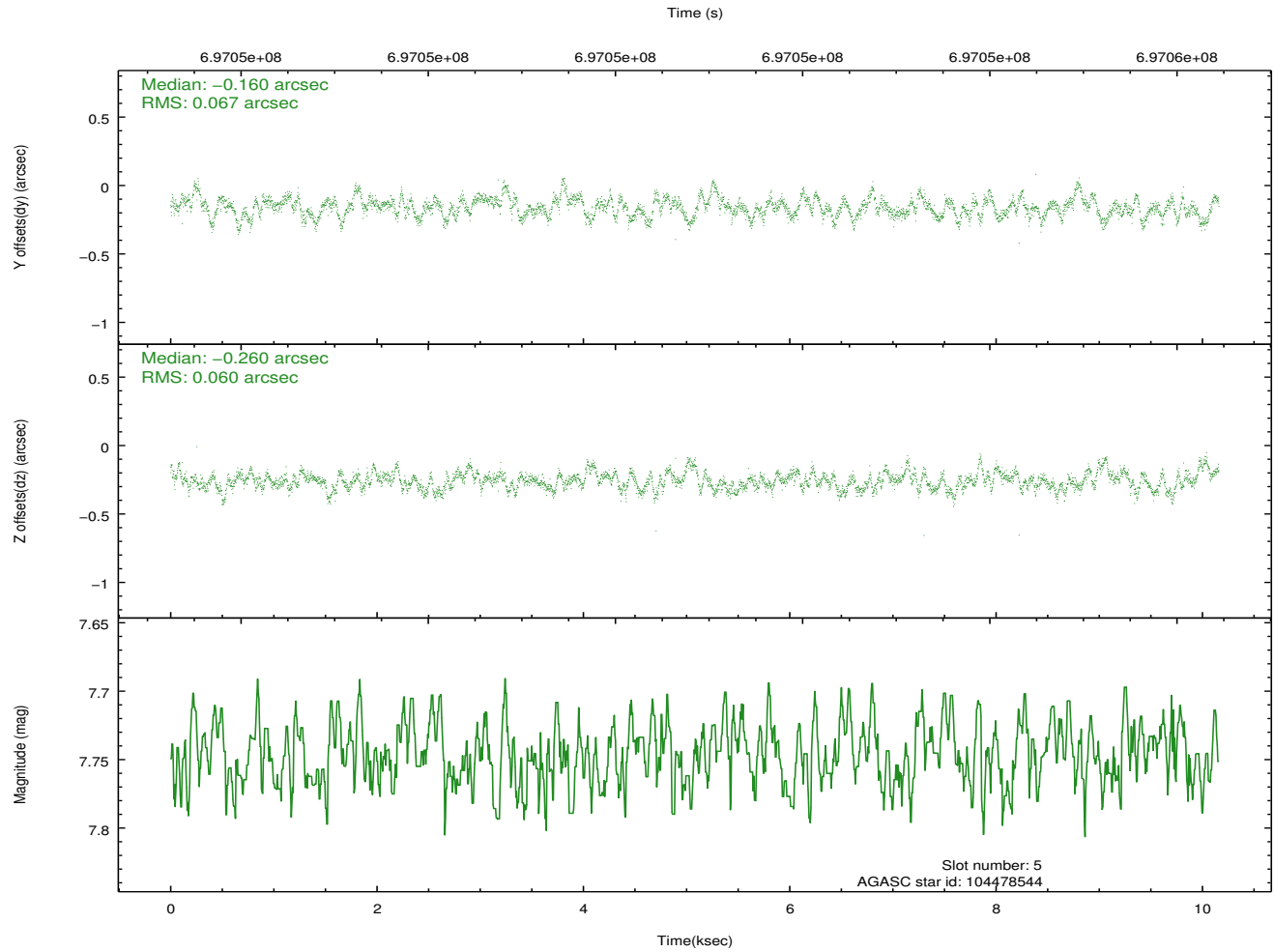
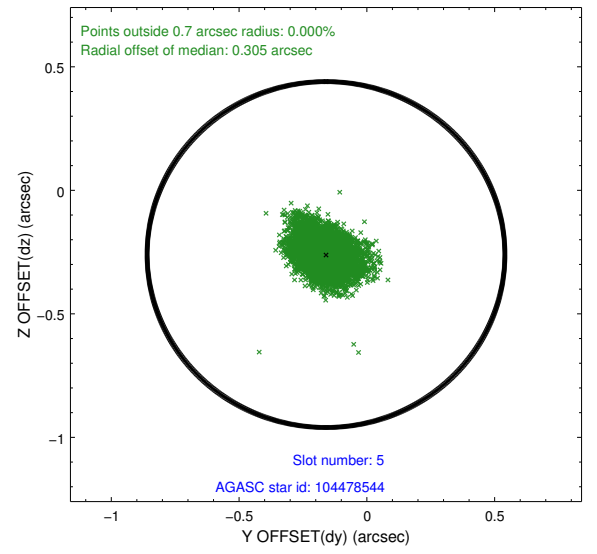
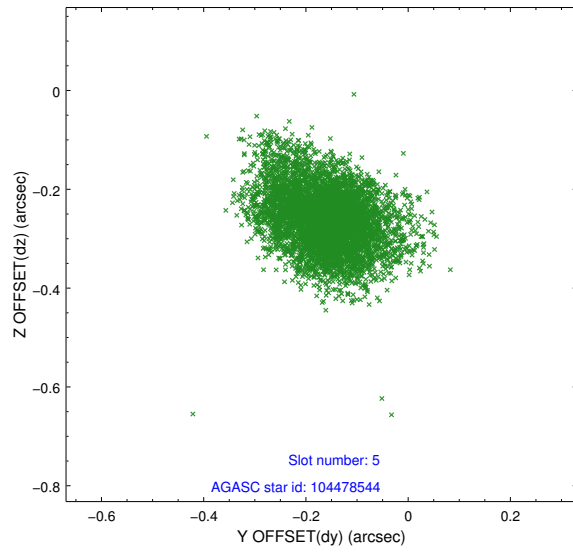
2.4.1 Slot 3



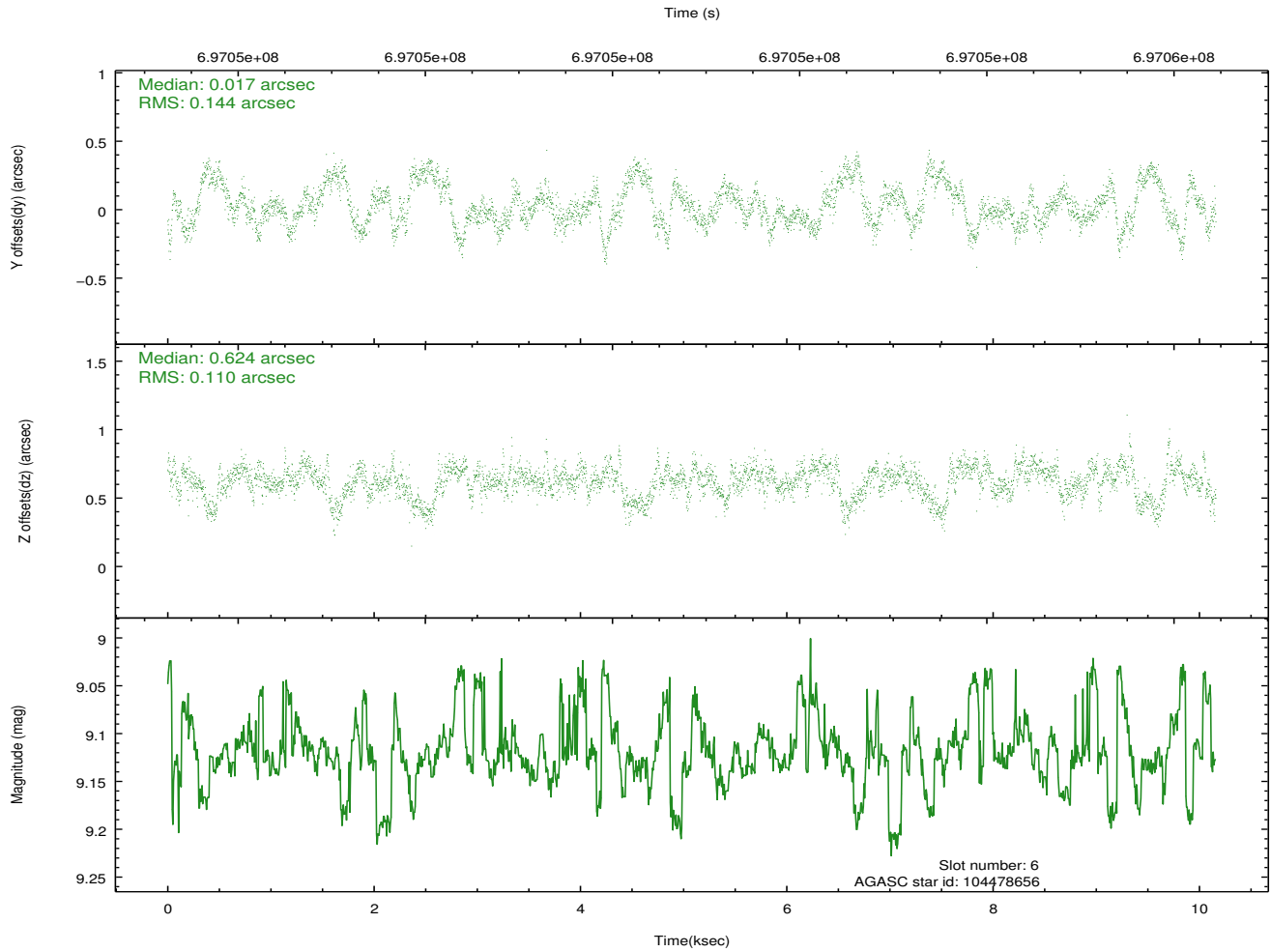
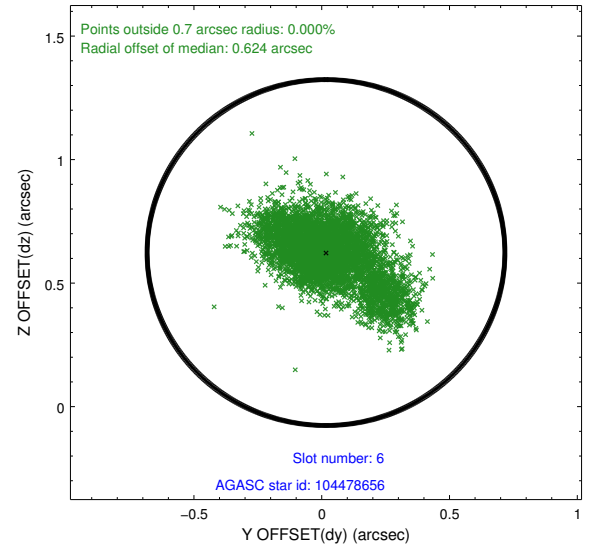
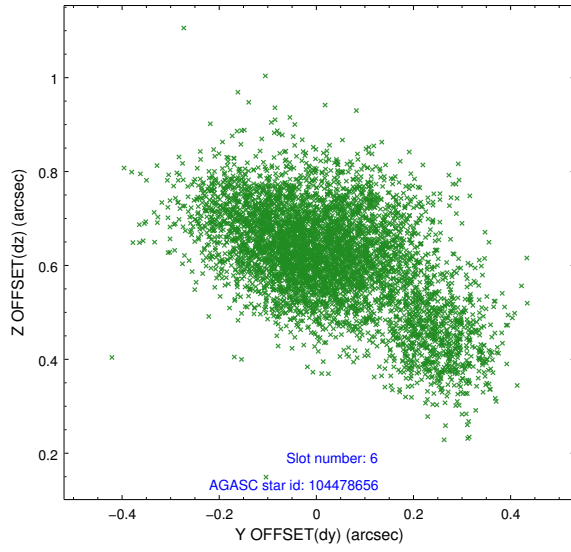
2.4.2 Slot 4



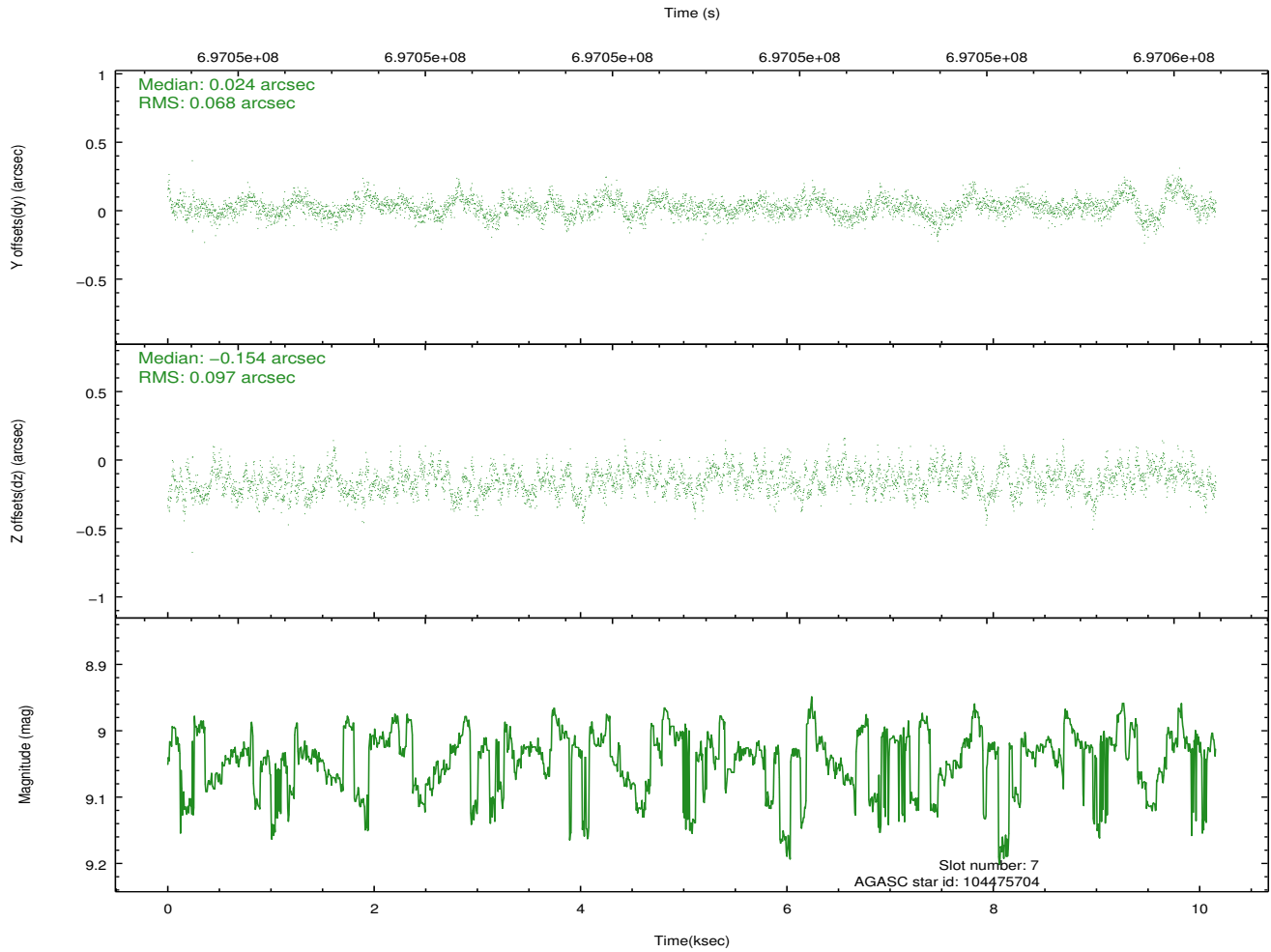
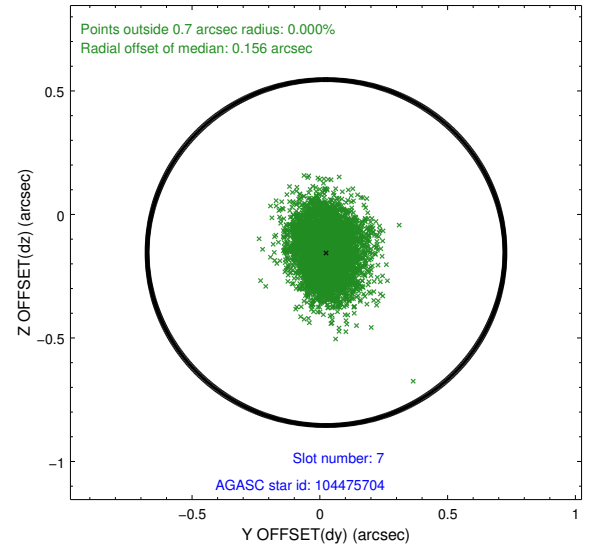
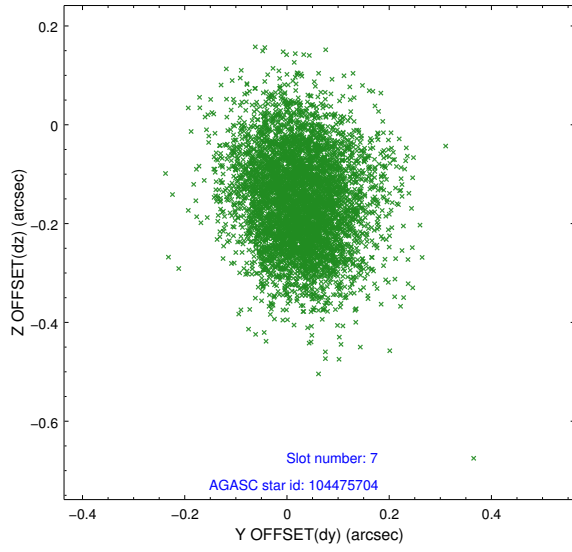
2.4.3 Slot 5



2.4.4 Slot 6

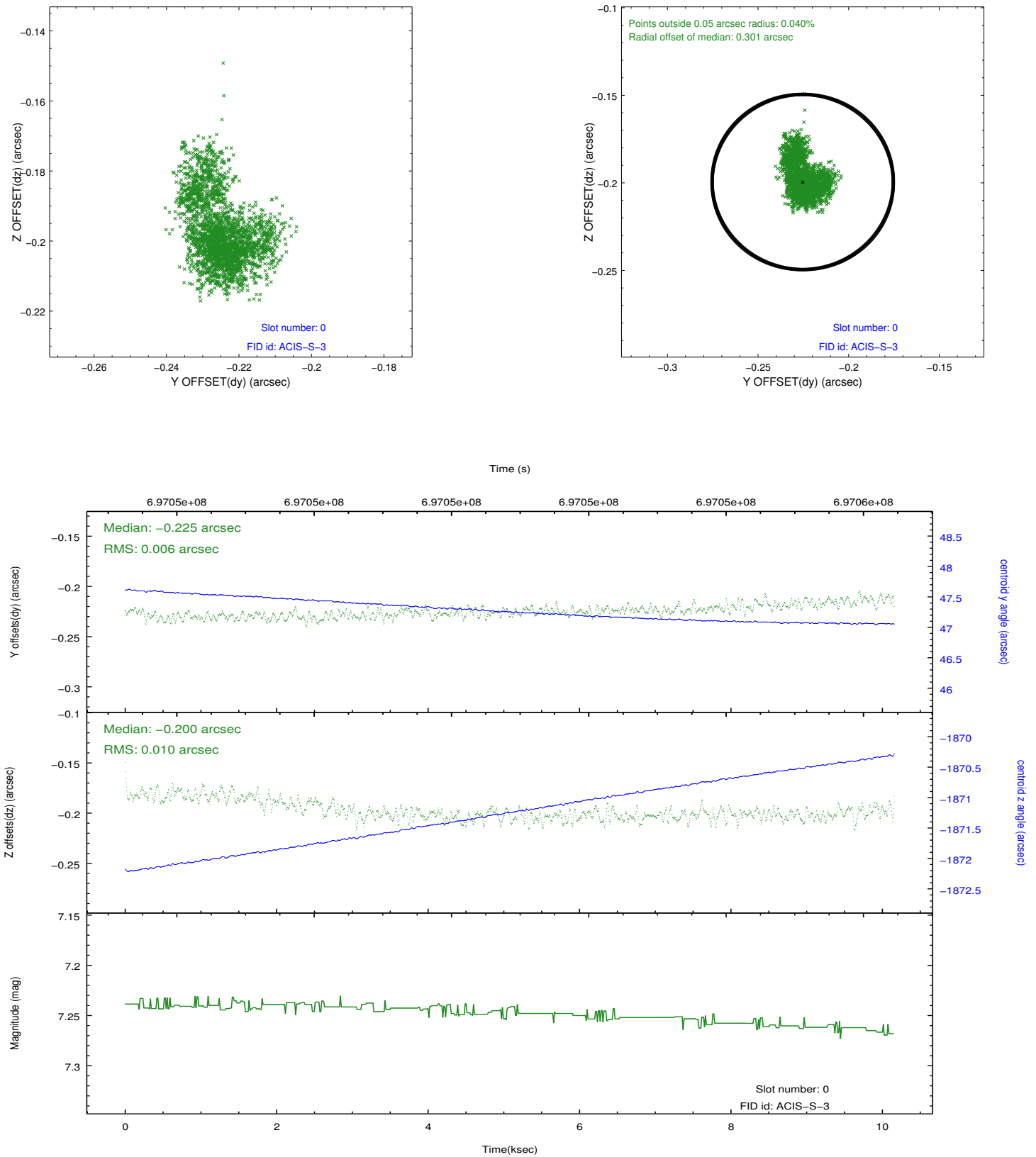


2.4.5 Slot 7

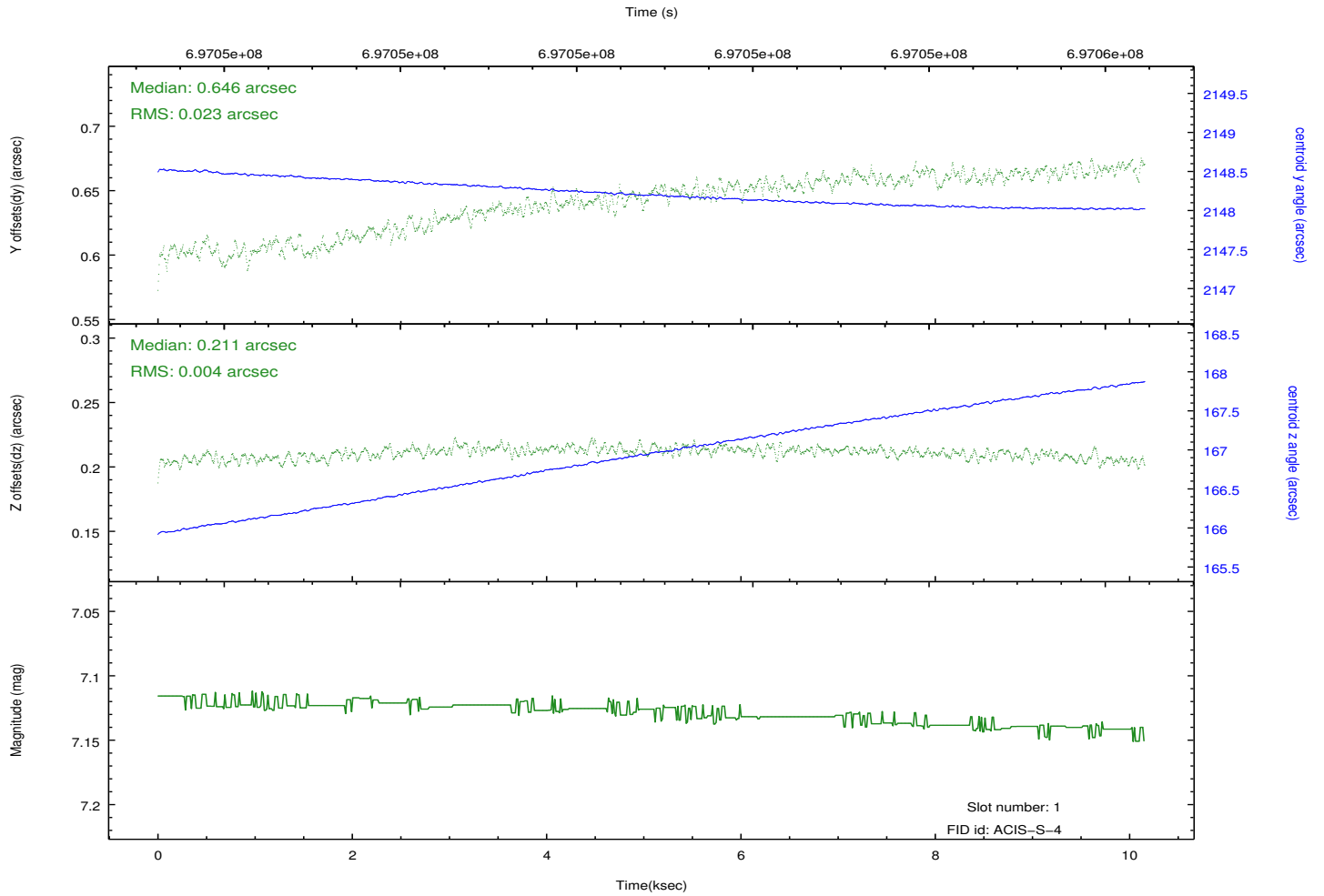
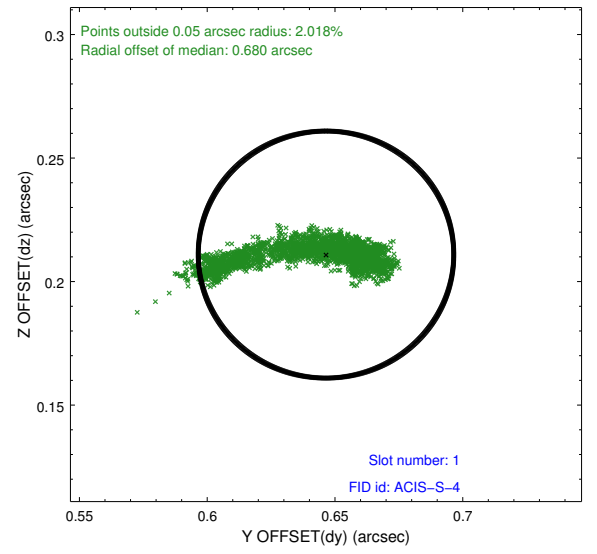
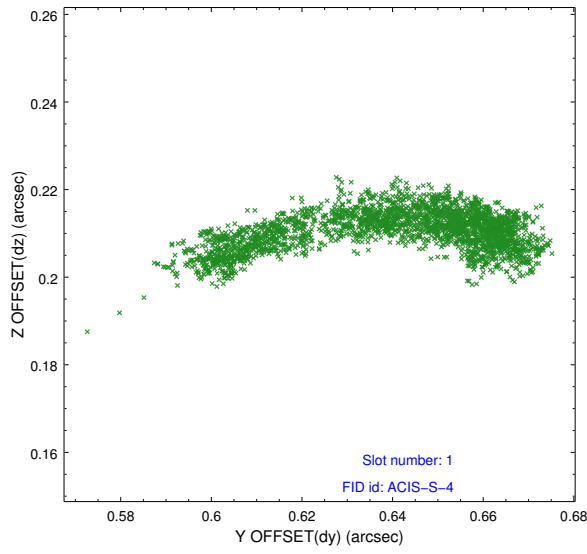


2.5 FID Slots

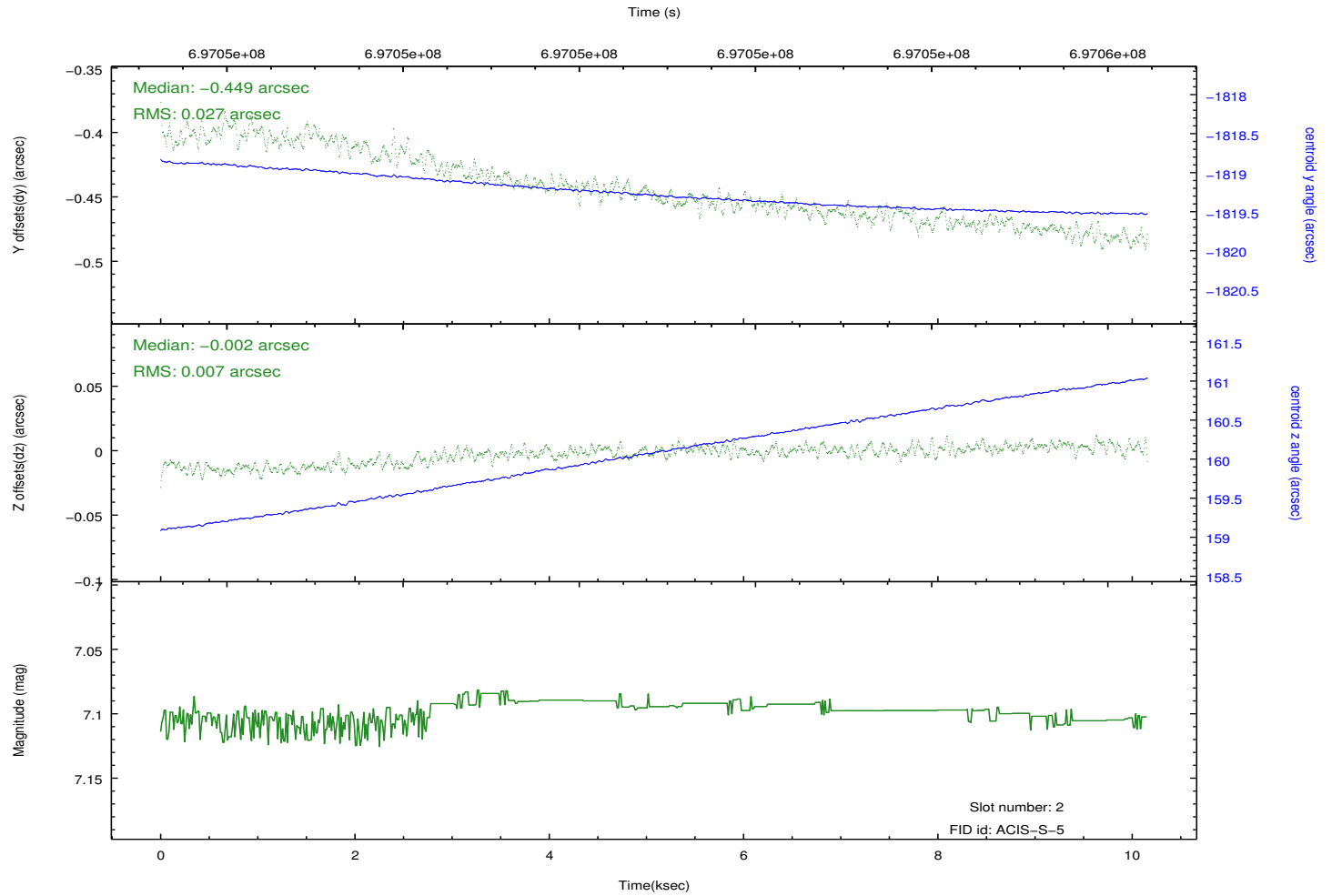
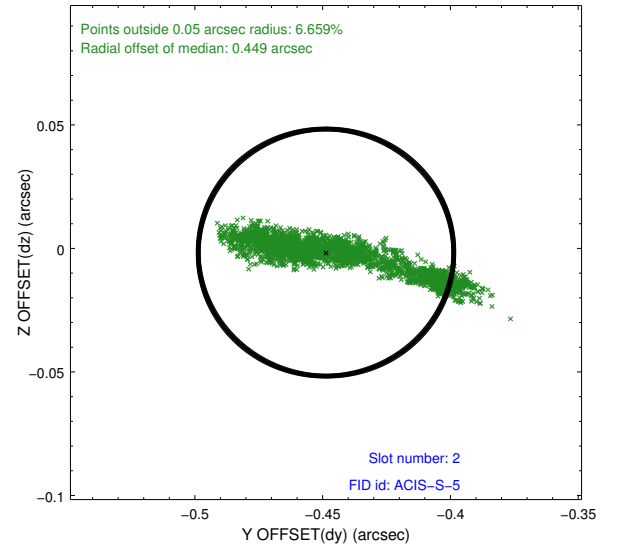
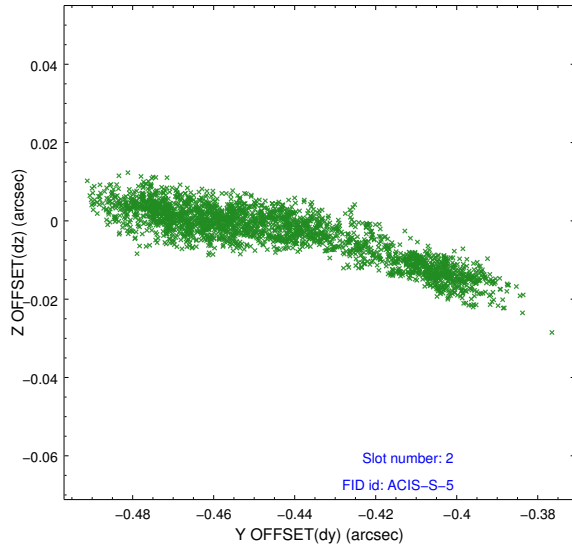
2.5.1 Slot 0



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)	2020.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06260007751

A.2 Comments