

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18313 - L2 Version 1
Chandra X-Ray Center

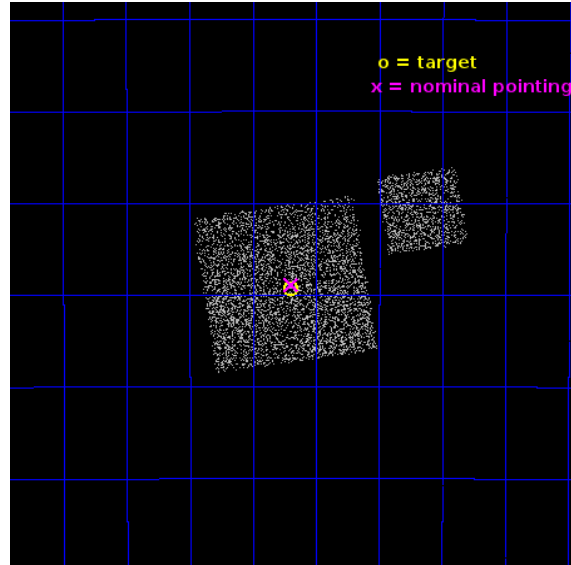
L2 Processing Date : May 11 2016

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1 Front

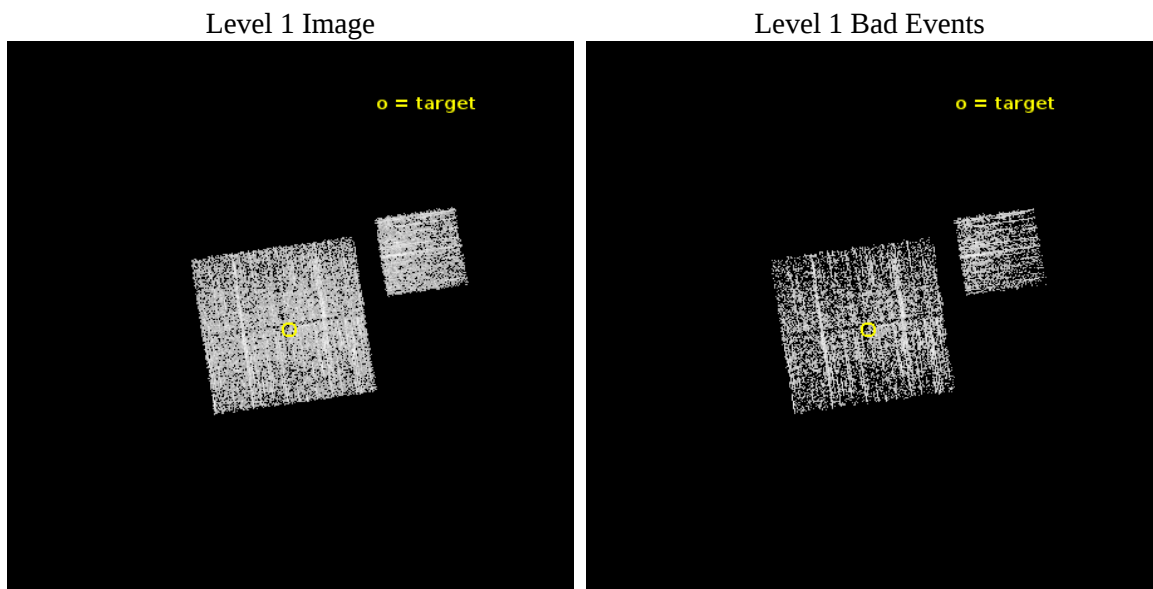
seq_num	300344	Sequence number
obs_id	18313	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.3005	Observer's specified target RA [deg]
dec_targ	-28.155056	Observer's specified target Dec [deg]
ra_nom	265.29875643812	Nominal RA [deg]
dec_nom	-28.148333749458	Nominal Dec [deg]
roll_nom	81.460179544936	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.6605451107	Sum of GTIs [s]
livetime	1930.1084003525	Livetime [s]
ontime0	1955.5374251604	Sum of GTIs [s]
ontime1	1955.5784749985	Sum of GTIs [s]
ontime2	1955.619505167	Sum of GTIs [s]
ontime3	1955.6605451107	Sum of GTIs [s]
ontime6	1955.4963949919	Sum of GTIs [s]
l2events	6927	Number of level 2 events



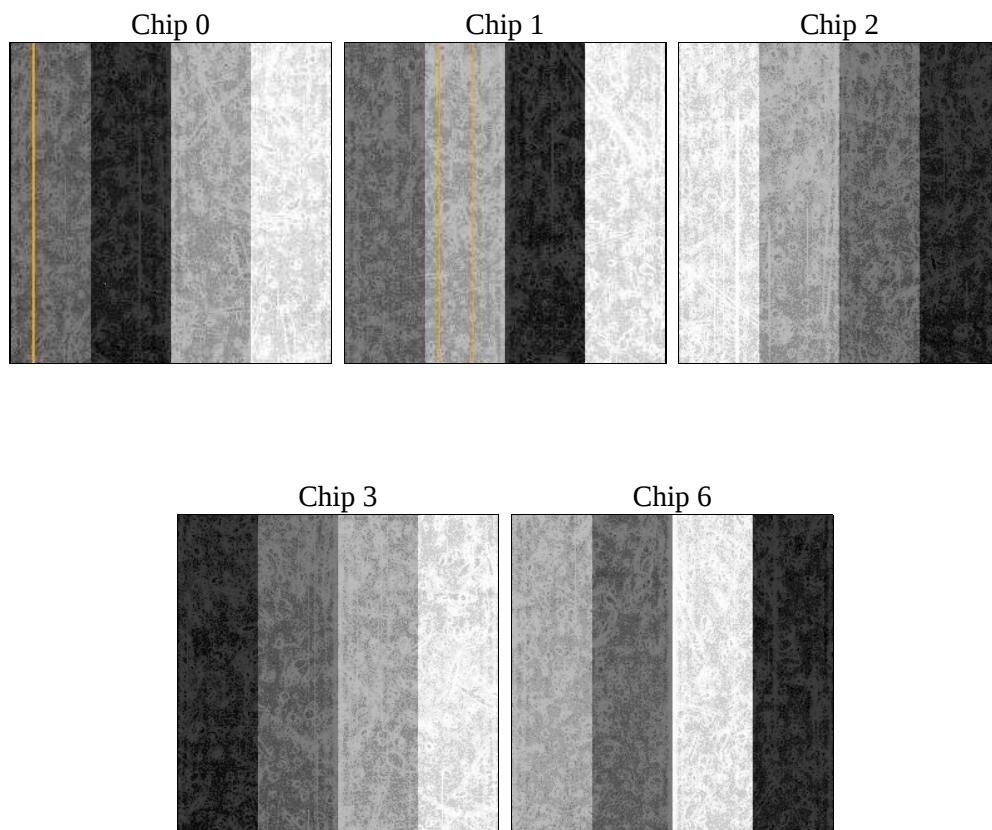
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.6605451107	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	1955.5374251604	Sum of GTIs [s]
date	2016-05-11T15:40:47	Date and time of file creation	ontime1	1955.5784749985	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.619505167	Sum of GTIs [s]
			ontime3	1955.6605451107	Sum of GTIs [s]
			ontime6	1955.4963949919	Sum of GTIs [s]
			l1events	61399	Number of level 1 events

2.1.4 Events

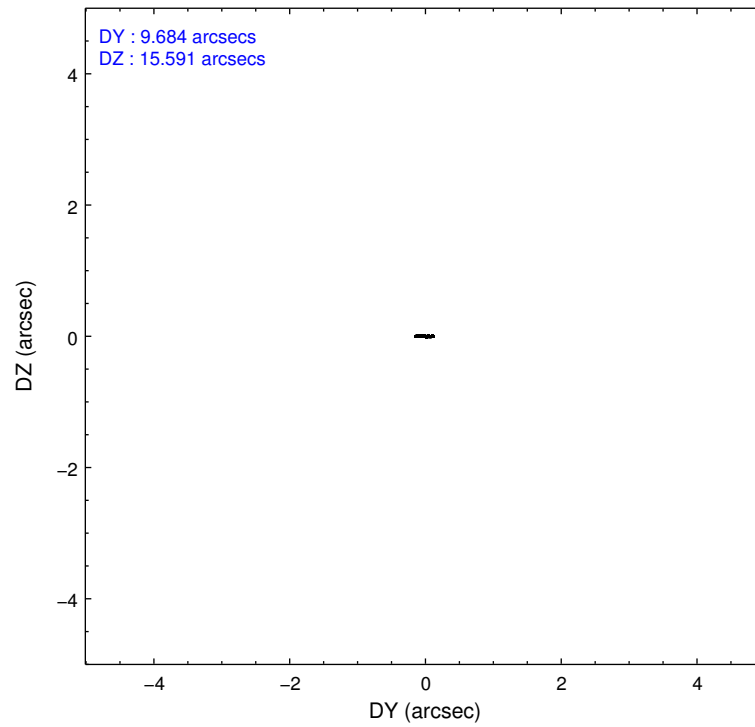
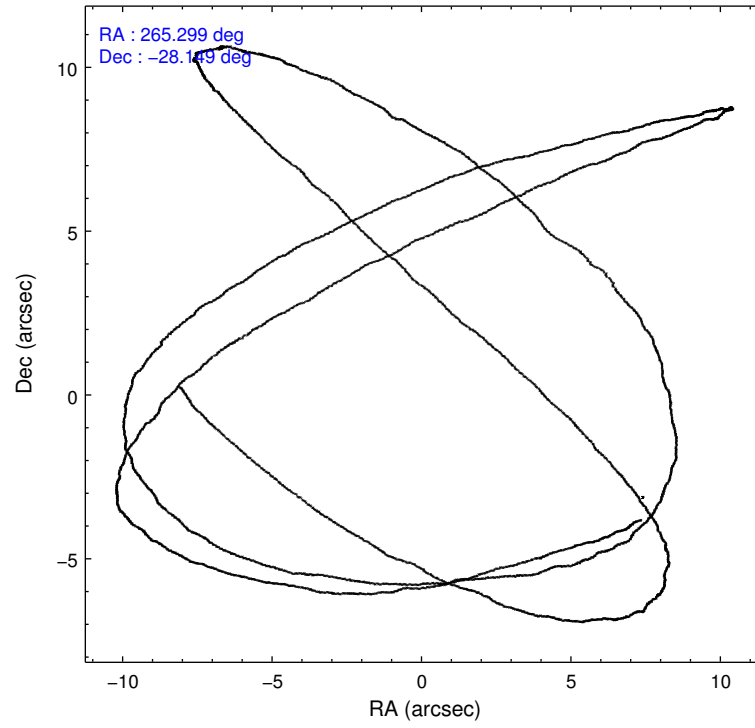
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10565	12540	12246	13660	12388
rejected events	9002	10802	10742	11923	10863
rejected %	85%	86%	87%	87%	87%

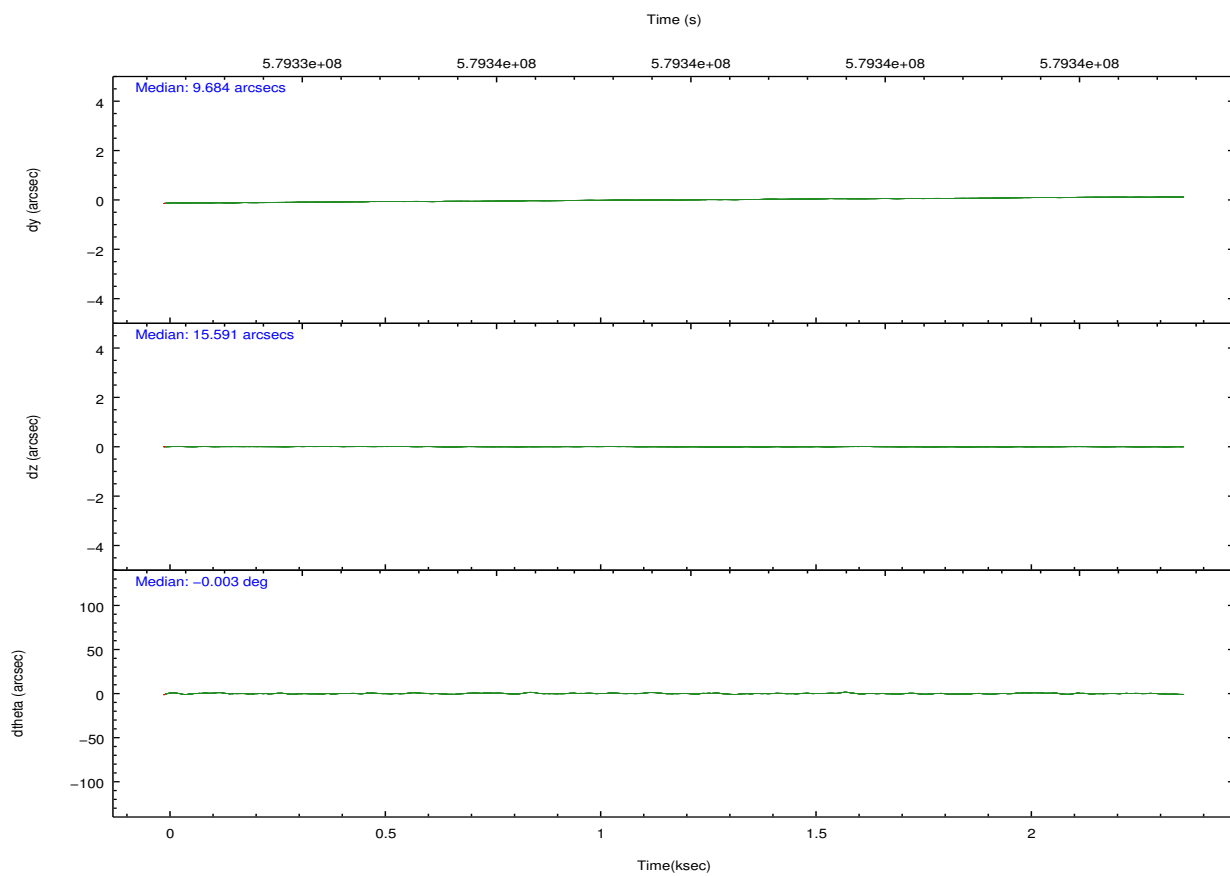
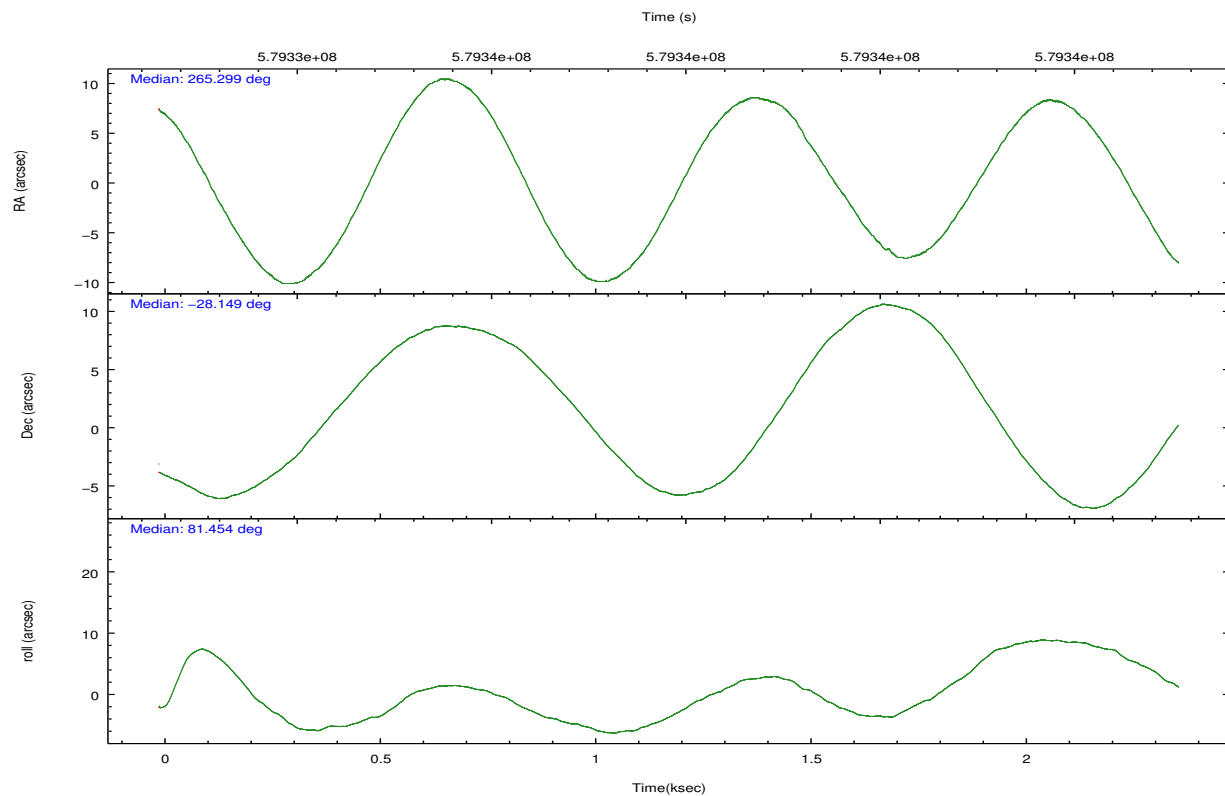
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	574	686	647	764	583
	5%	5%	5%	5%	4%
grade 1 events	10	3	4	9	10
	0%	0%	0%	0%	0%
grade 2 events	383	401	322	355	306
	3%	3%	2%	2%	2%
grade 3 events	180	182	125	169	144
	1%	1%	1%	1%	1%
grade 4 events	144	154	134	155	144
	1%	1%	1%	1%	1%
grade 5 events	517	583	445	639	625
	4%	4%	3%	4%	5%
grade 6 events	284	316	277	297	349
	2%	2%	2%	2%	2%
grade 7 events	8473	10215	10292	11272	10227
	80%	81%	84%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	265.310400	265.2987564381247	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.173710	-28.14833374945846	CCD I3 on	Y	Y
[deg] Pointing Roll	81.256984	81.46017954493647	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	579334446.184000	579334069.9466799	CCD S5 on	N	N
Observation start date	2016-05-11T06:12:58	2016-05-11T06:07:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579336626.184000	579336760.05933	On-chip summing requested	N	N
Observation end date	2016-05-11T06:49:18	2016-05-11T06:52:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



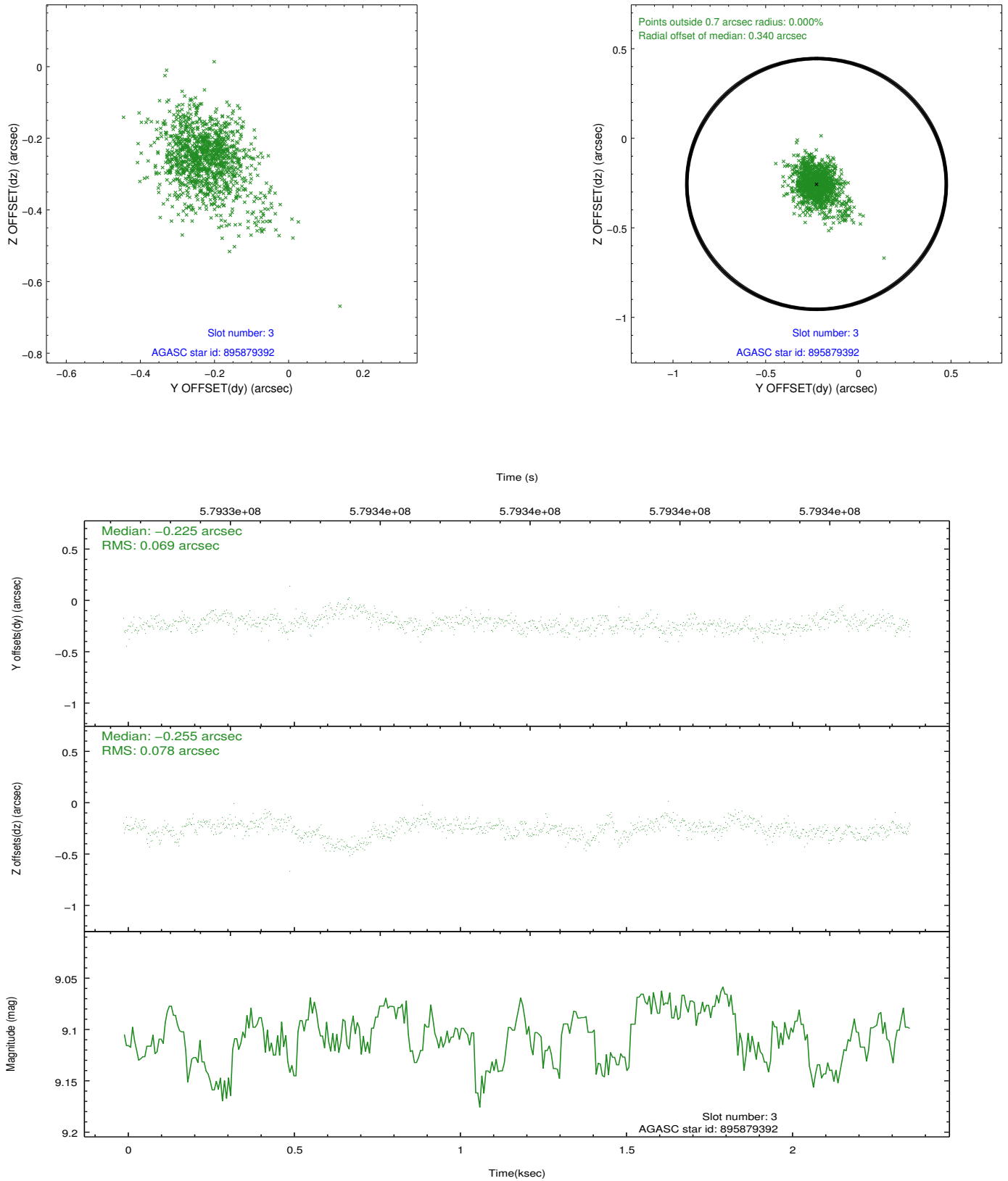


Slot Statistics

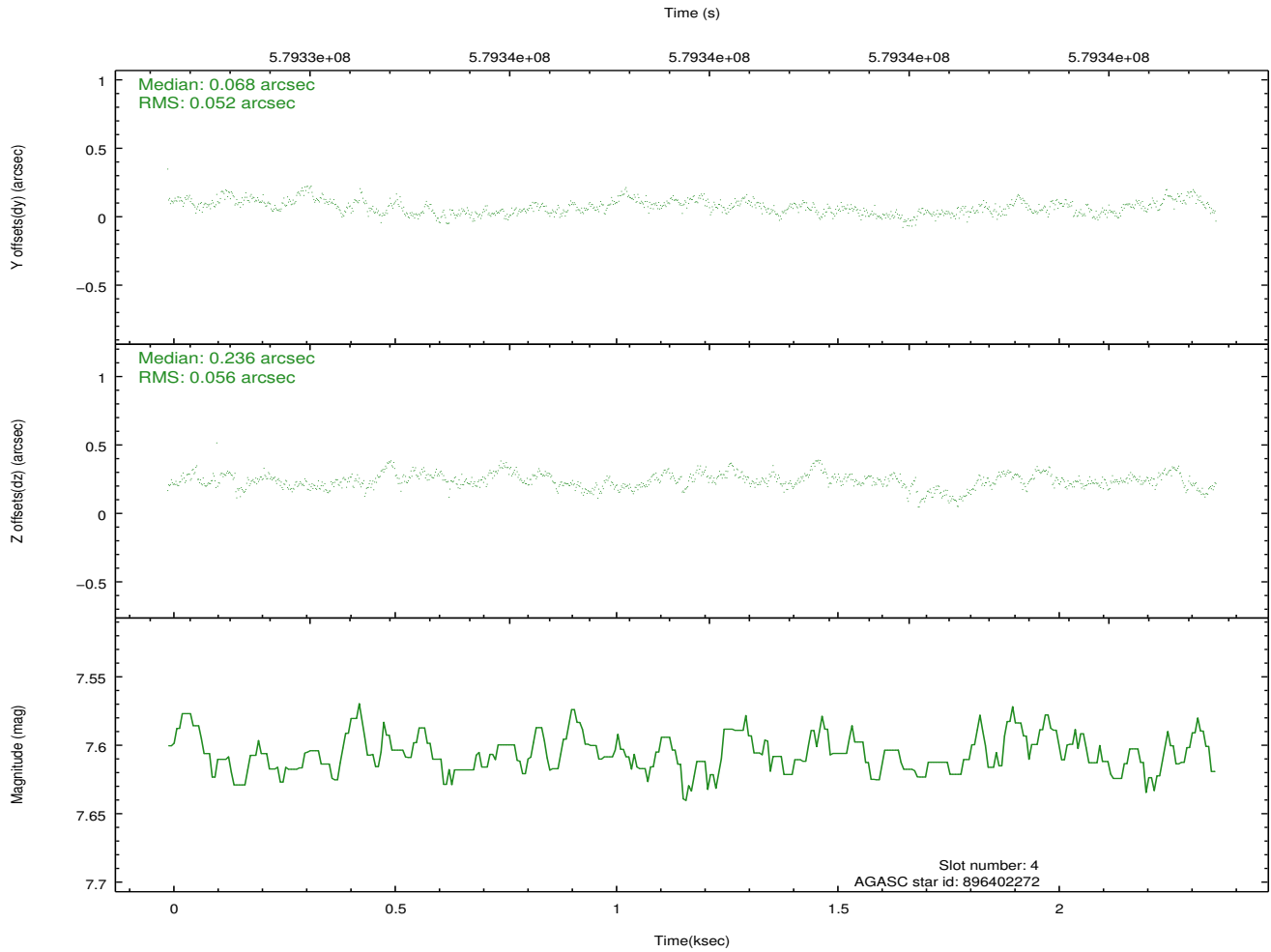
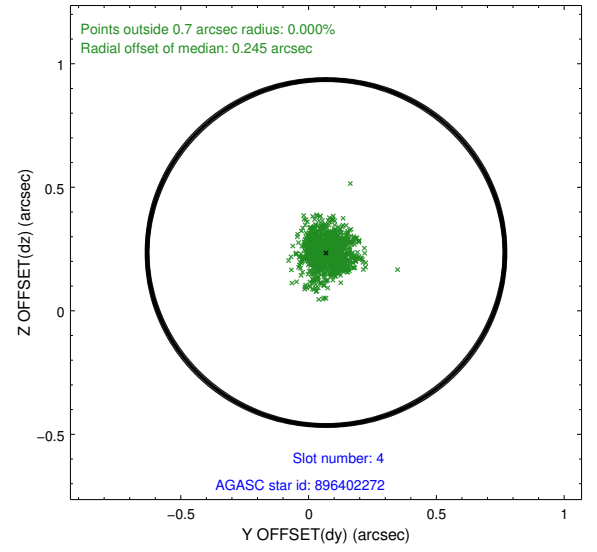
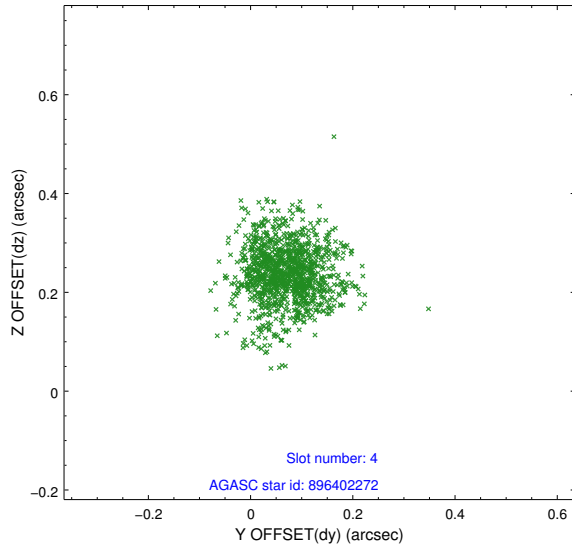
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	578	0.107	-0.126	0.006	0.010	0.000000	0.000000	930.04	-839.32
1	FID		ACIS-I-5	7.24	578	-0.320	0.061	0.006	0.010	0.000000	0.000000	-1817.00	1056.94
2	FID		ACIS-I-6	7.24	578	0.123	0.135	0.007	0.012	0.000000	0.000000	392.59	1704.65
3	GUIDE	used	895879392	9.10	1155	-0.225	-0.255	0.102	0.197	264.792874	-27.441876	2349.97	2034.32
4	GUIDE	used	896402272	7.61	1156	0.068	0.236	0.080	0.135	265.637294	-28.313189	-336.82	-1098.56
5	GUIDE	used	896404568	7.83	1156	0.082	0.265	0.085	0.135	265.687293	-28.431080	-735.16	-1321.19
6	GUIDE	used	896405616	7.85	1156	0.059	-0.107	0.117	0.210	264.752771	-28.412560	-1123.32	1613.45
7	GUIDE	used	896405976	9.07	1154	0.019	-0.144	0.101	0.182	264.638127	-28.604395	-1861.34	1864.66

2.4 Star Slots

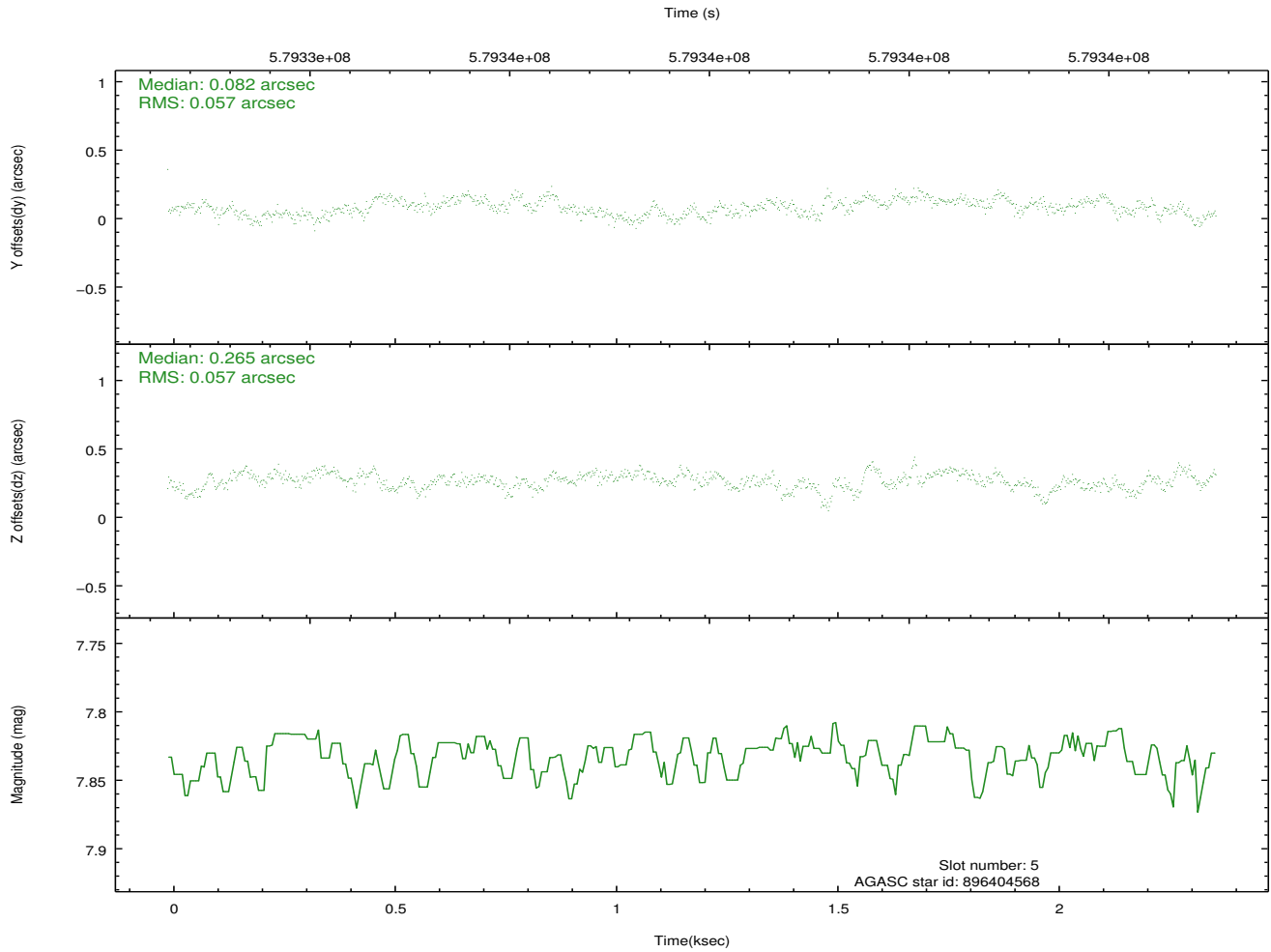
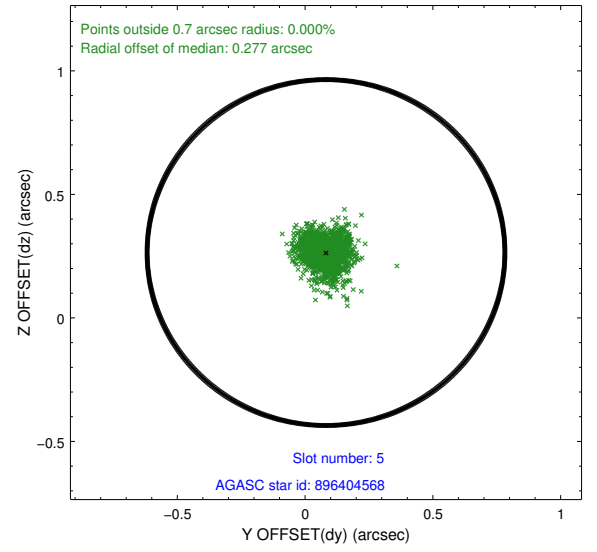
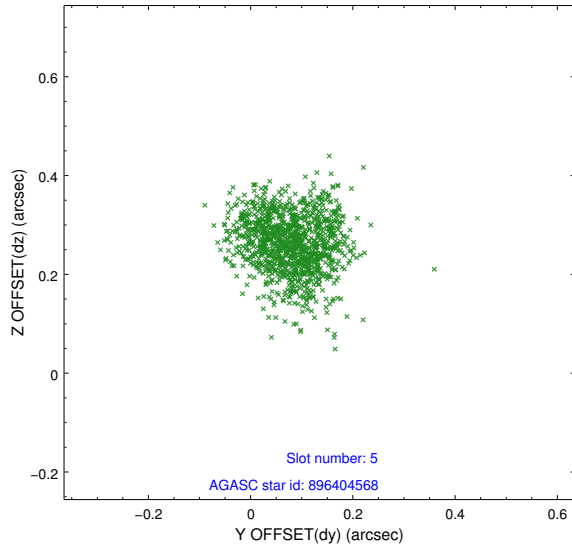
2.4.1 Slot 3



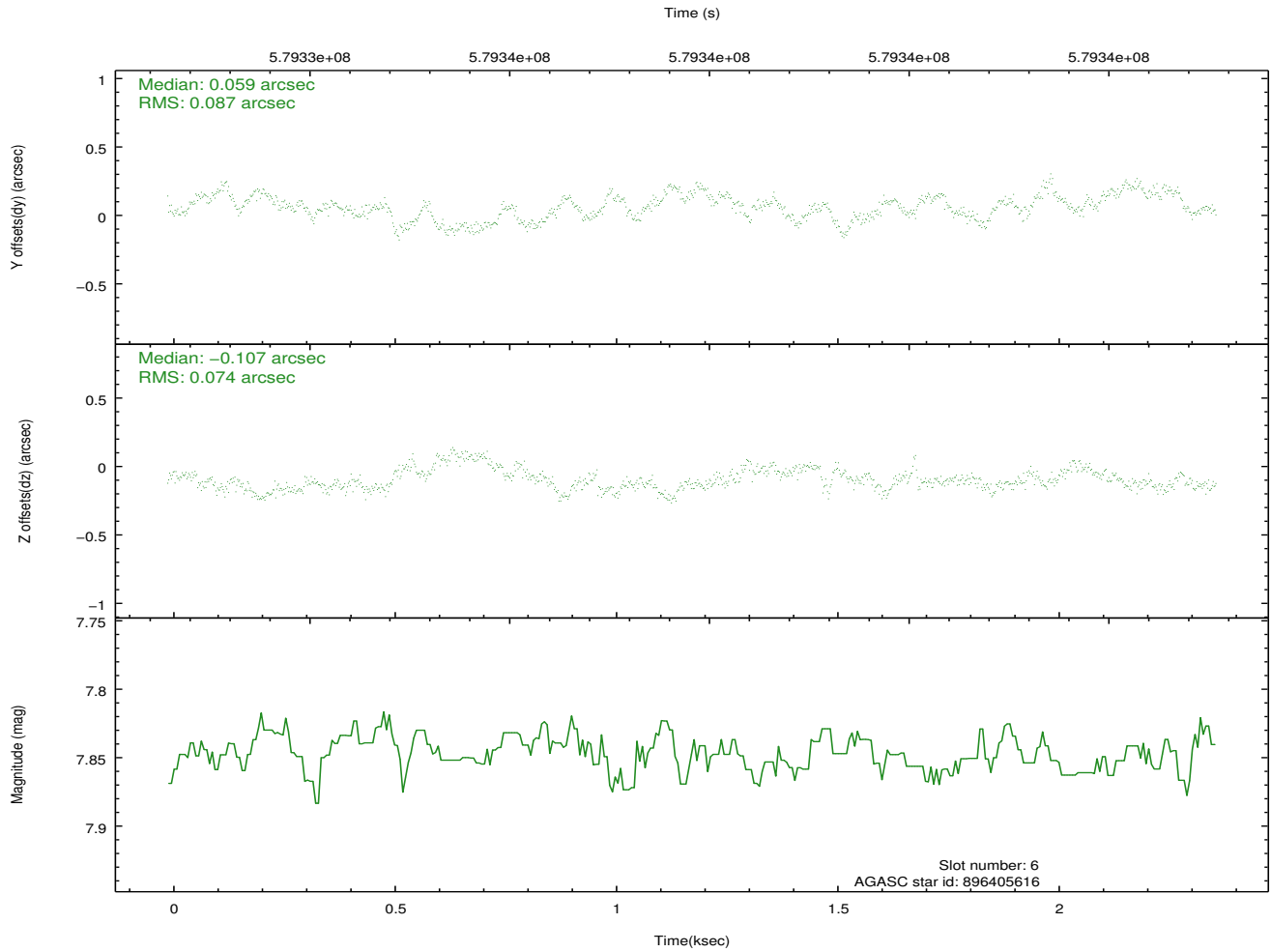
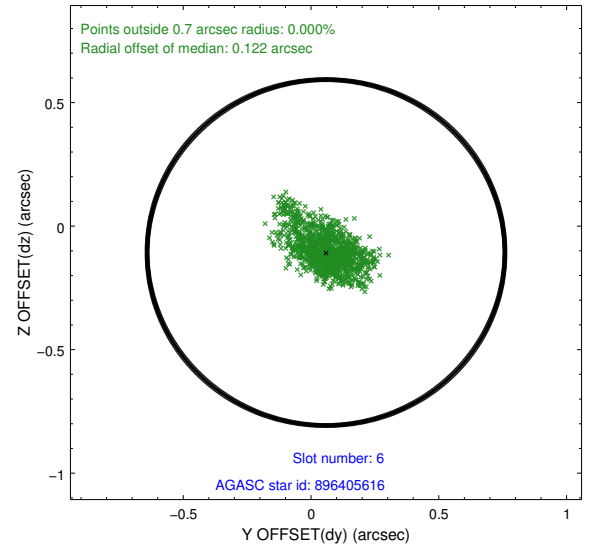
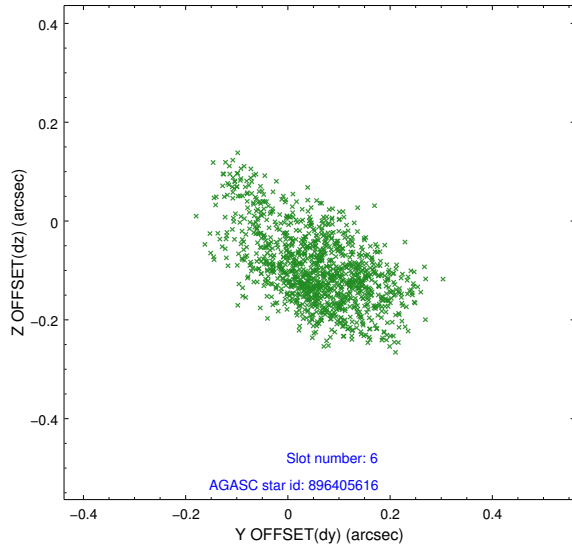
2.4.2 Slot 4



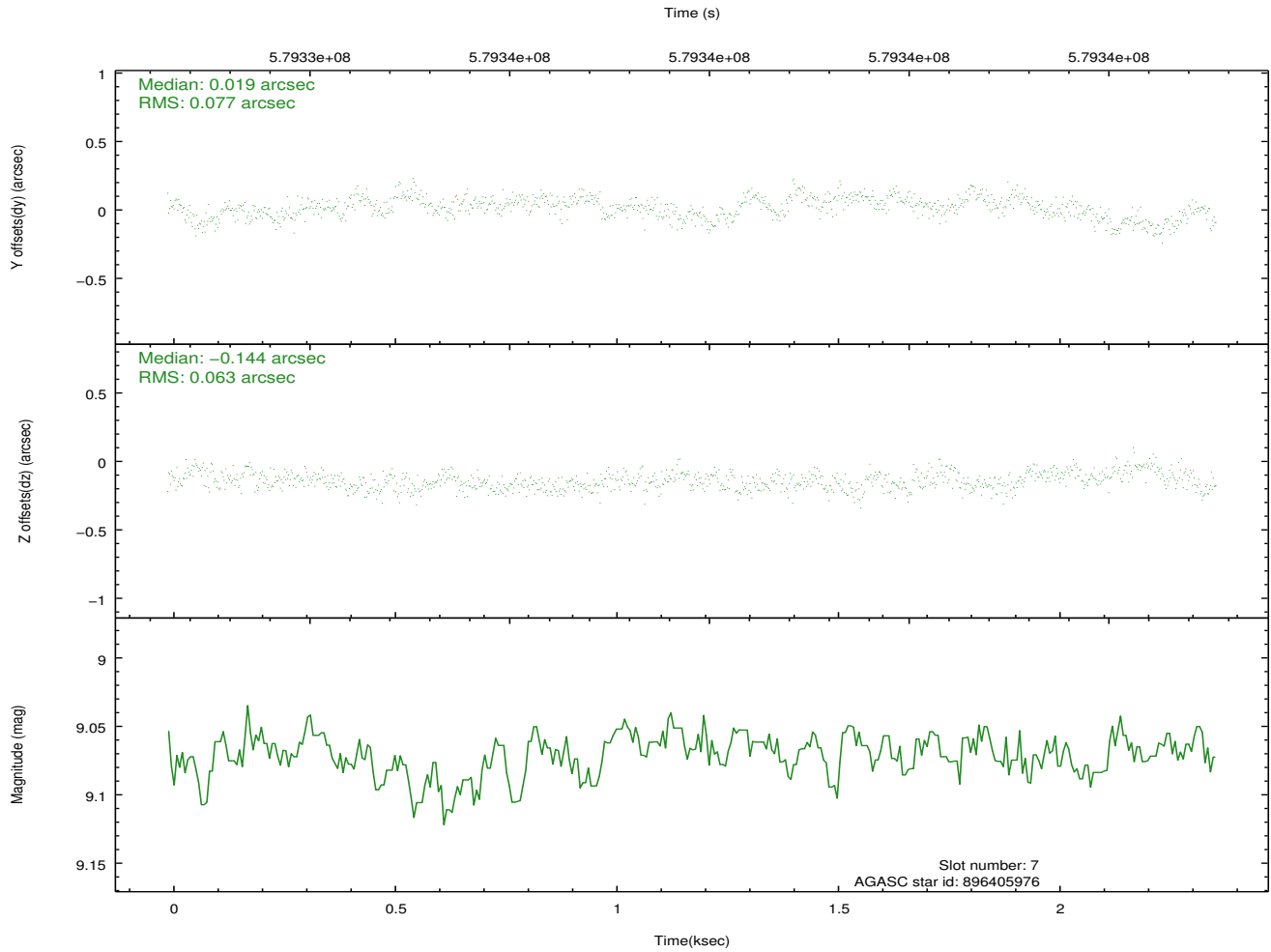
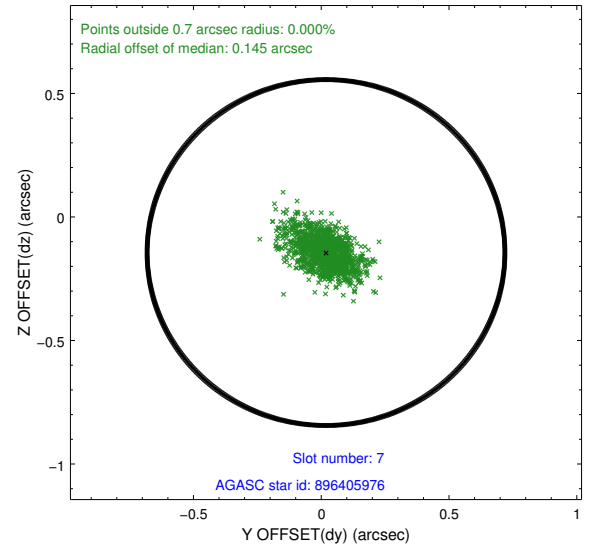
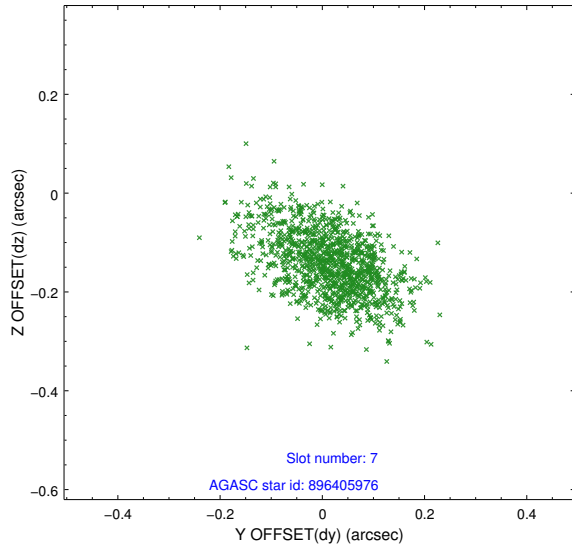
2.4.3 Slot 5



2.4.4 Slot 6

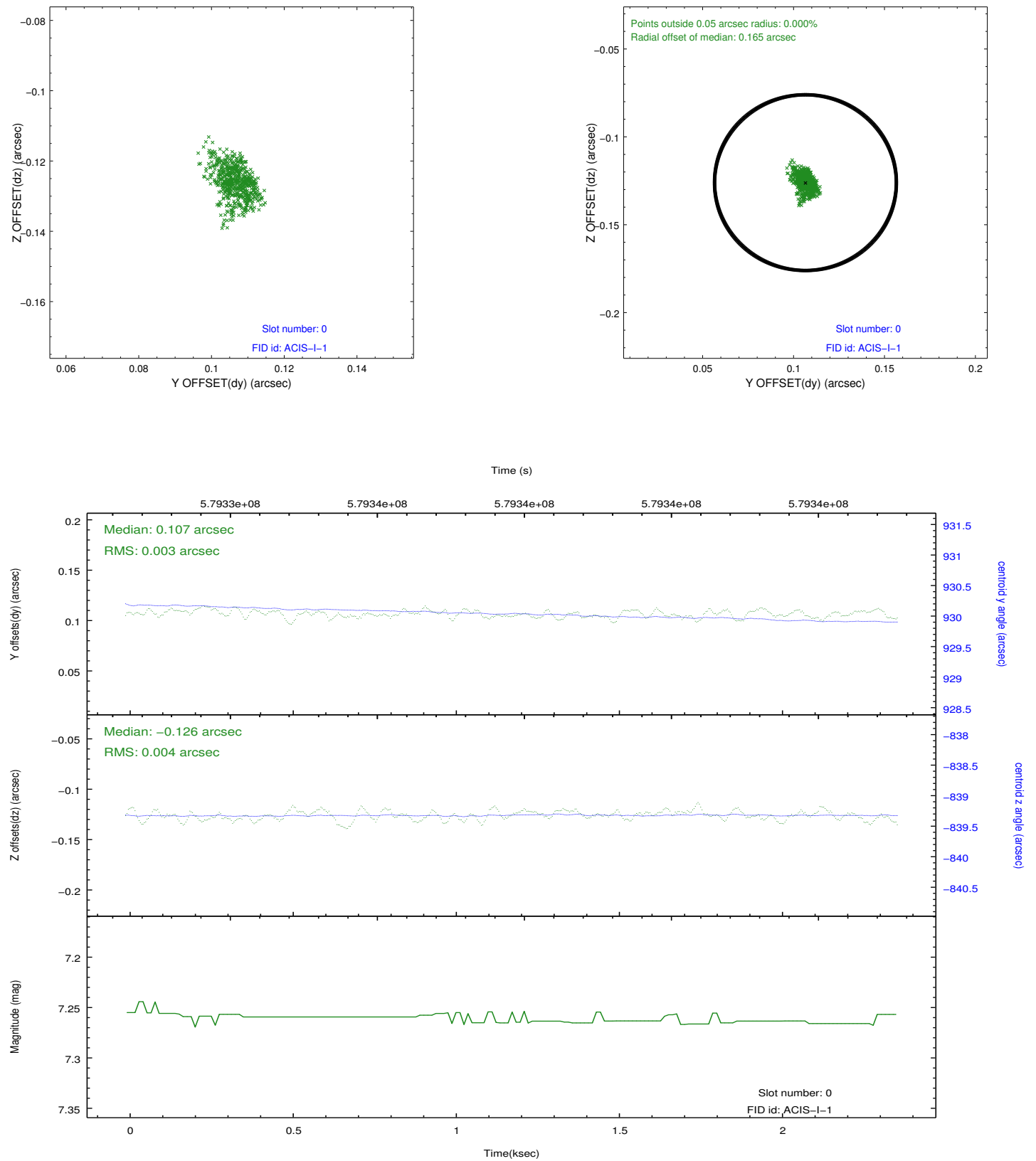


2.4.5 Slot 7

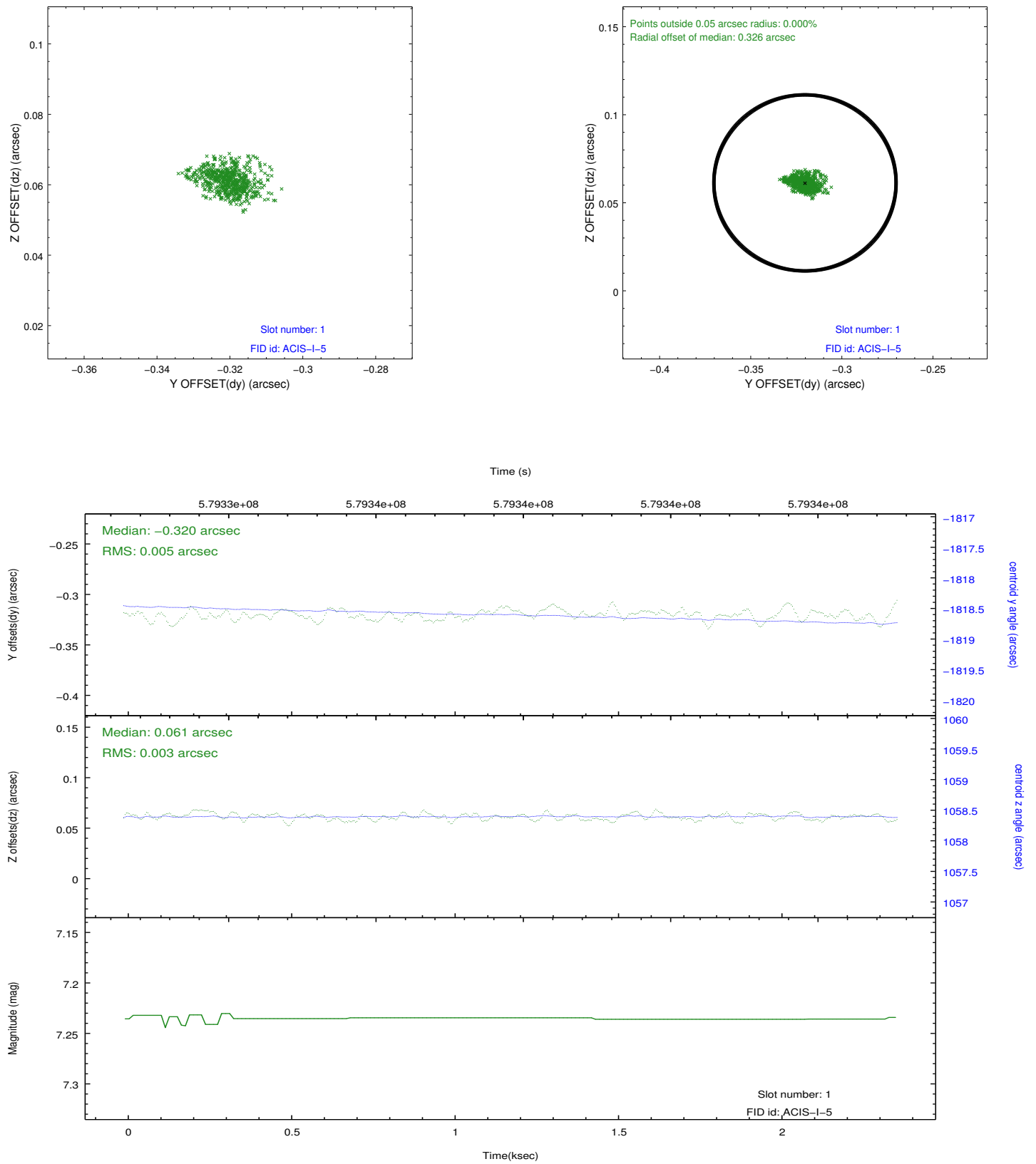


2.5 FID Slots

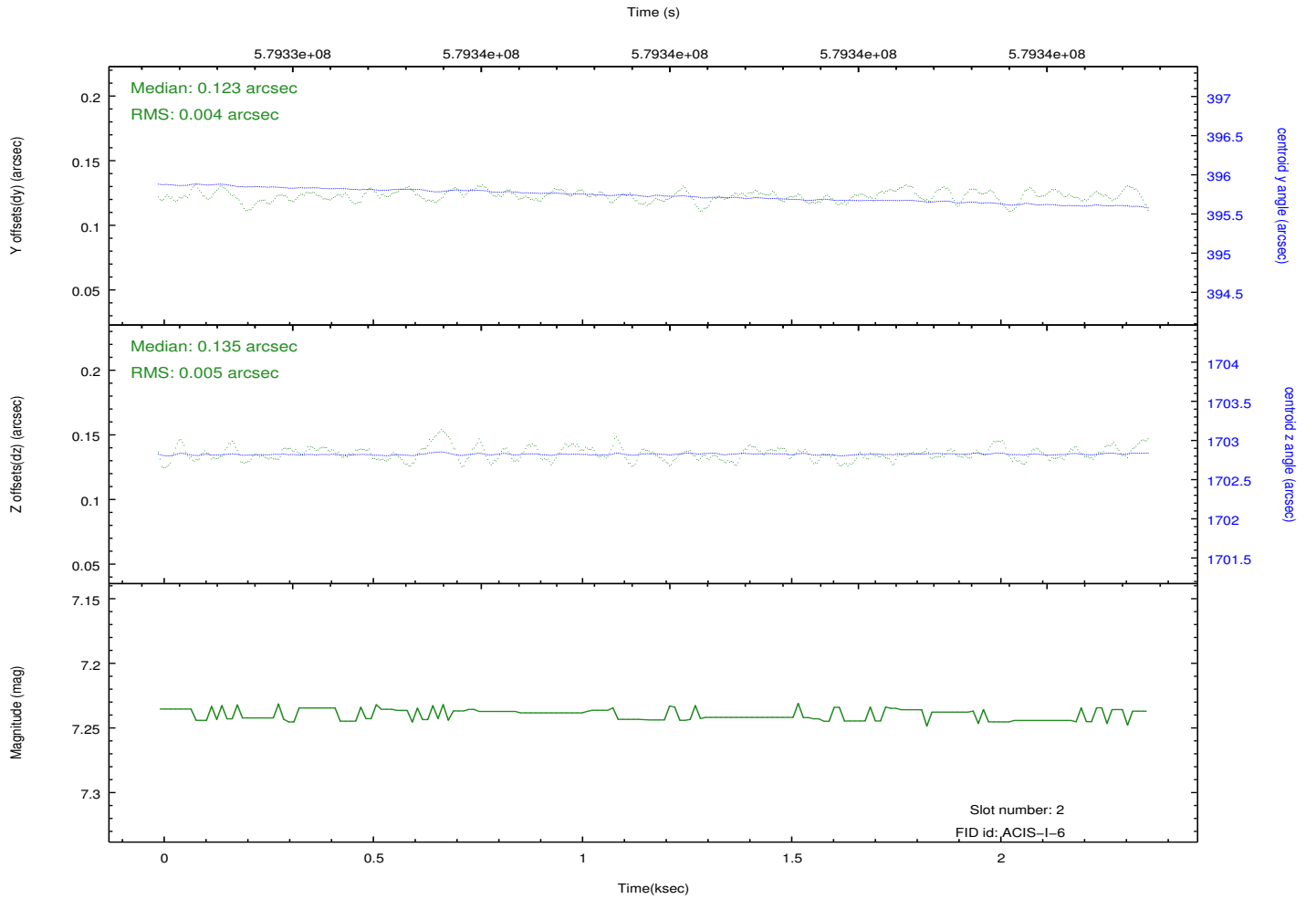
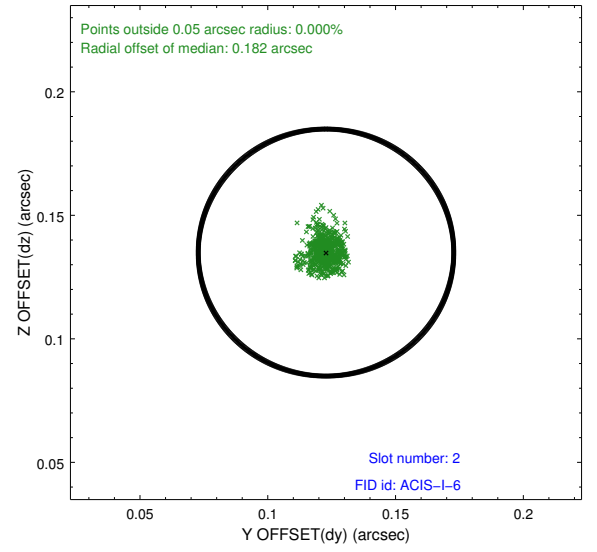
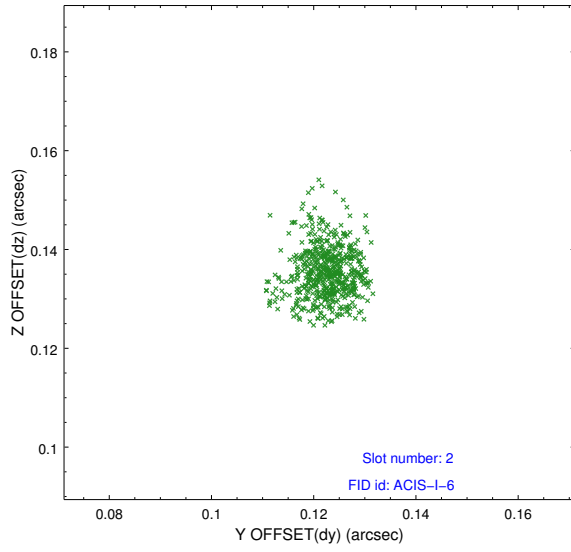
2.5.1 Slot 0



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)	2016.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9556605451107

A.2 Comments