

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18310 - L2 Version 1
Chandra X-Ray Center

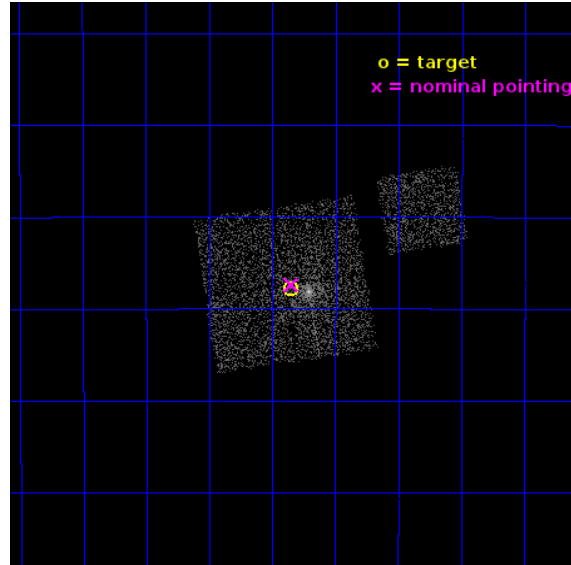
L2 Processing Date : May 11 2016

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1 Front

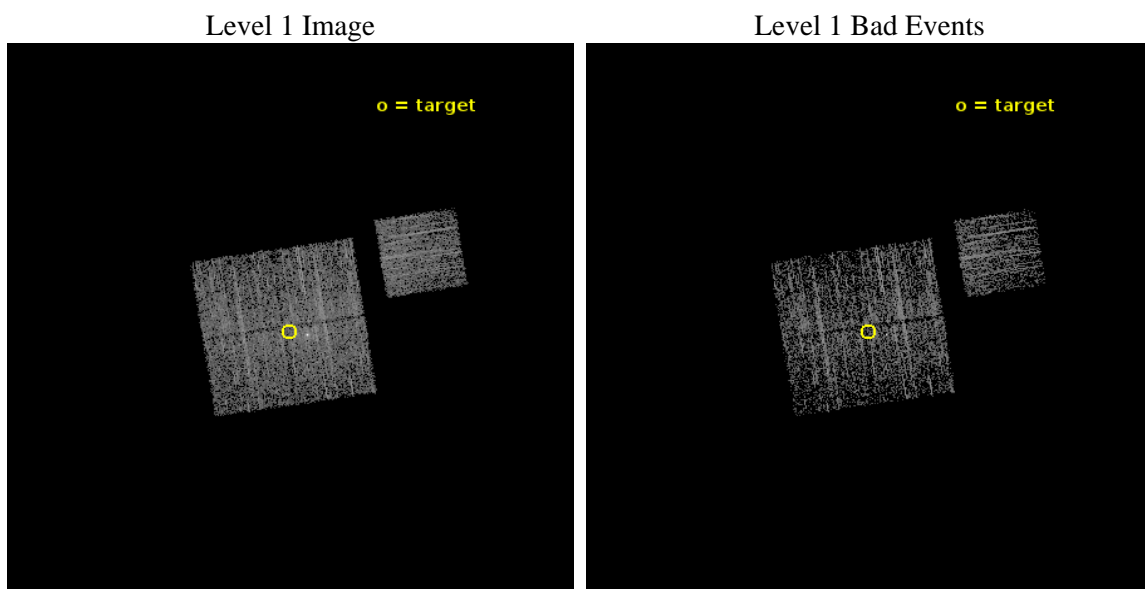
seq_num	300341	Sequence number
obs_id	18310	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.21363	Observer's specified target RA [deg]
dec_targ	-28.29669	Observer's specified target Dec [deg]
ra_nom	265.2119280734	Nominal RA [deg]
dec_nom	-28.2898772807	Nominal Dec [deg]
roll_nom	81.229545904345	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2073.649808526	Sum of GTIs [s]
livetime	2046.5560471789	Livetime [s]
ontime0	2073.5266885757	Sum of GTIs [s]
ontime1	2073.5677285194	Sum of GTIs [s]
ontime2	2073.6087685823	Sum of GTIs [s]
ontime3	2073.649808526	Sum of GTIs [s]
ontime6	2073.4856485128	Sum of GTIs [s]
l2events	8897	Number of level 2 events



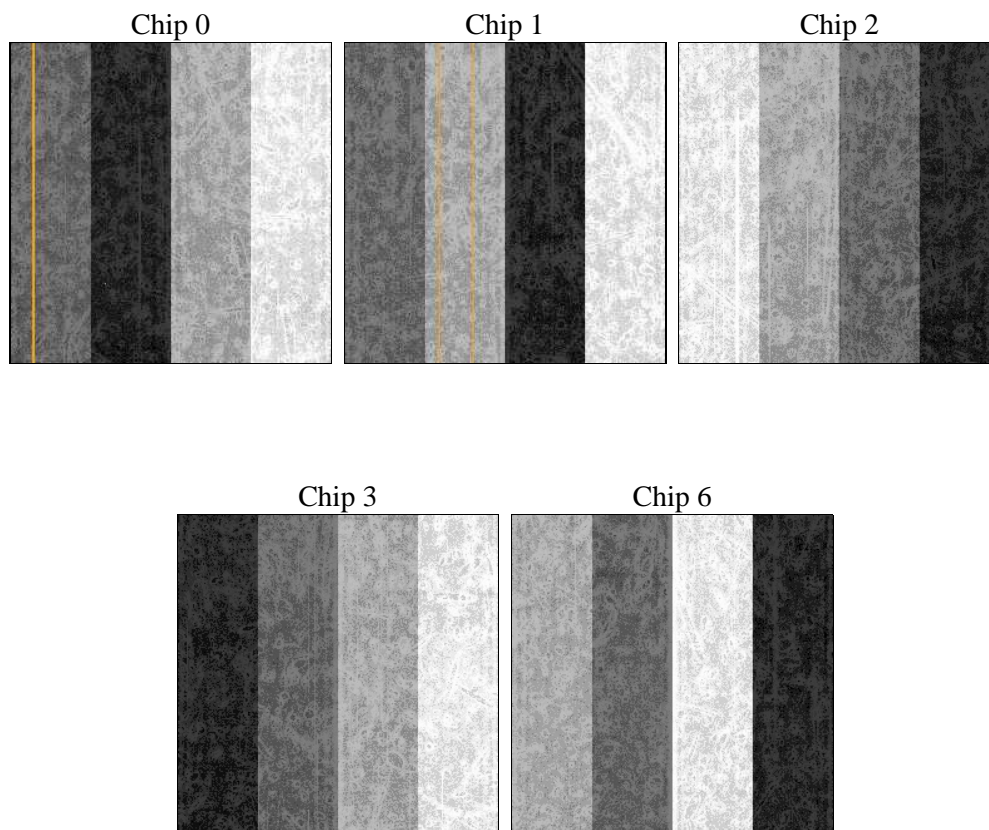
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	2073.649808526	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	2073.5266885757	Sum of GTIs [s]
date	2016-05-11T15:40:51	Date and time of file creation	ontime1	2073.5677285194	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2073.6087685823	Sum of GTIs [s]
			ontime3	2073.649808526	Sum of GTIs [s]
			ontime6	2073.4856485128	Sum of GTIs [s]
			l1events	65342	Number of level 1 events

2.1.4 Events

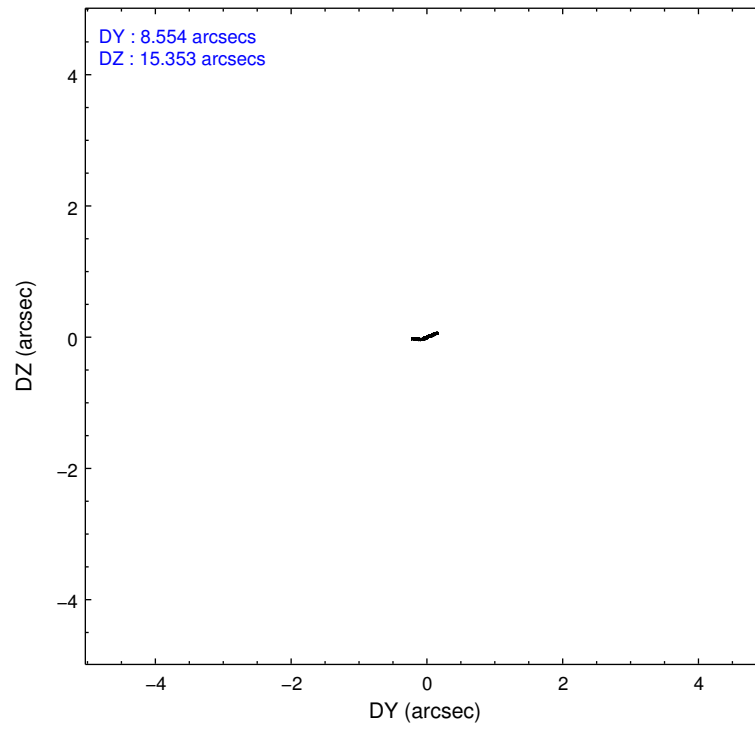
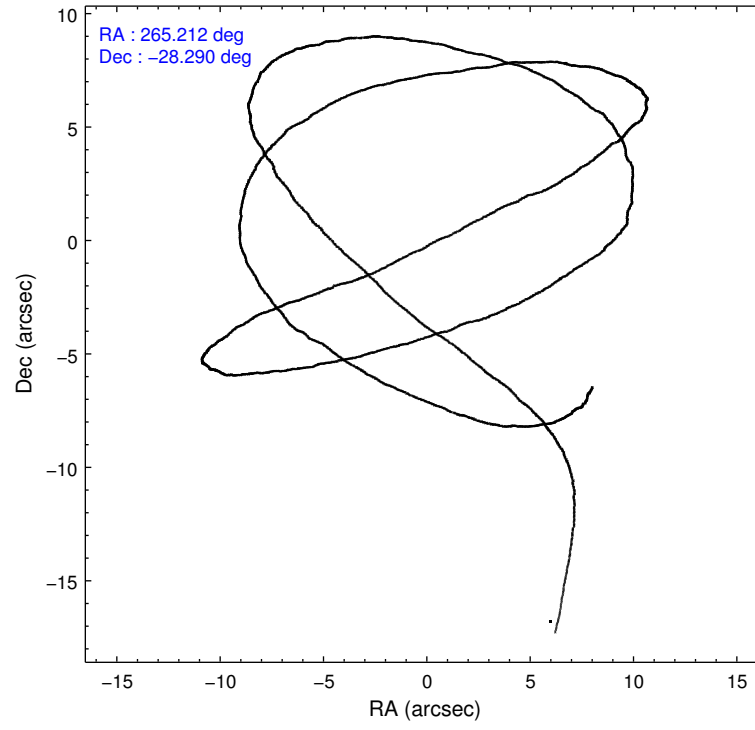
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	12320	11299	14784	14089	12850
rejected events	10628	9374	12975	11073	11168
rejected %	86%	82%	87%	78%	86%

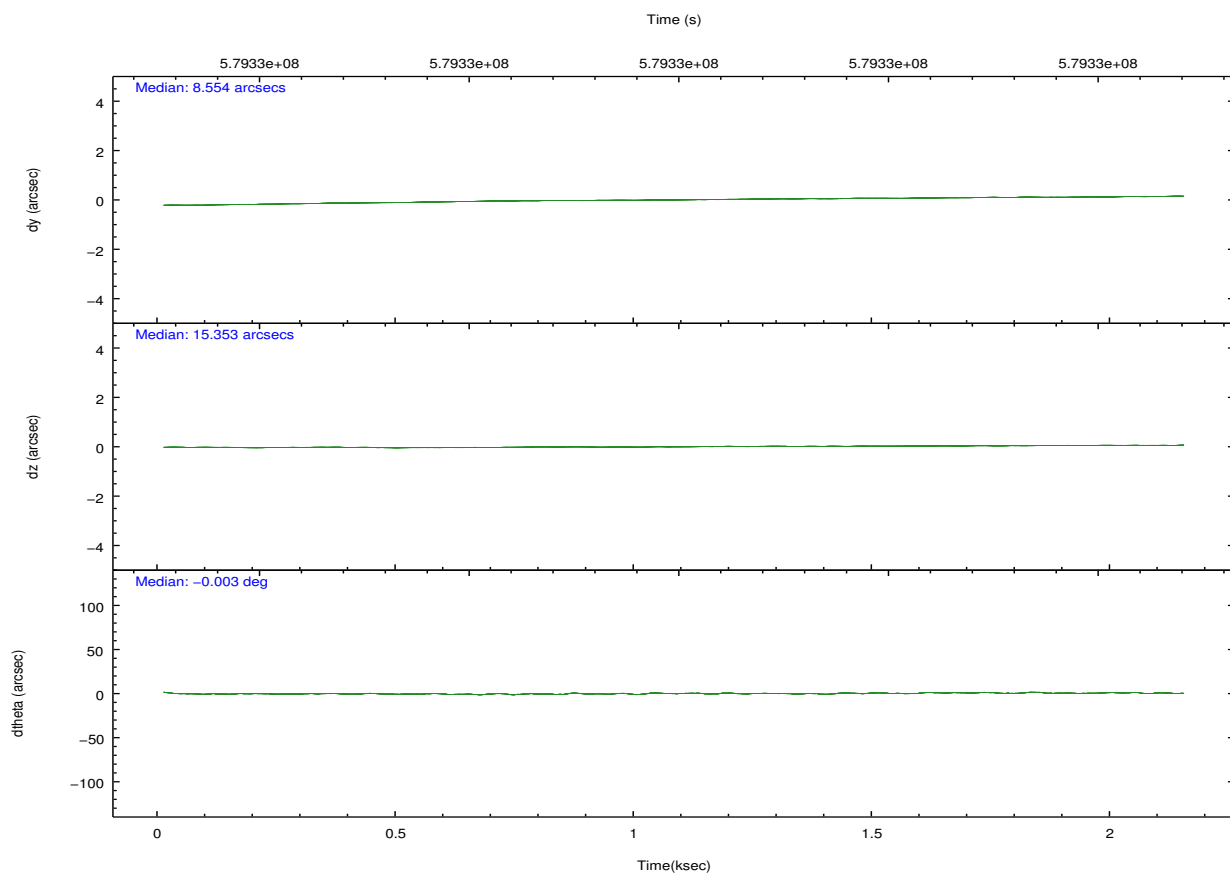
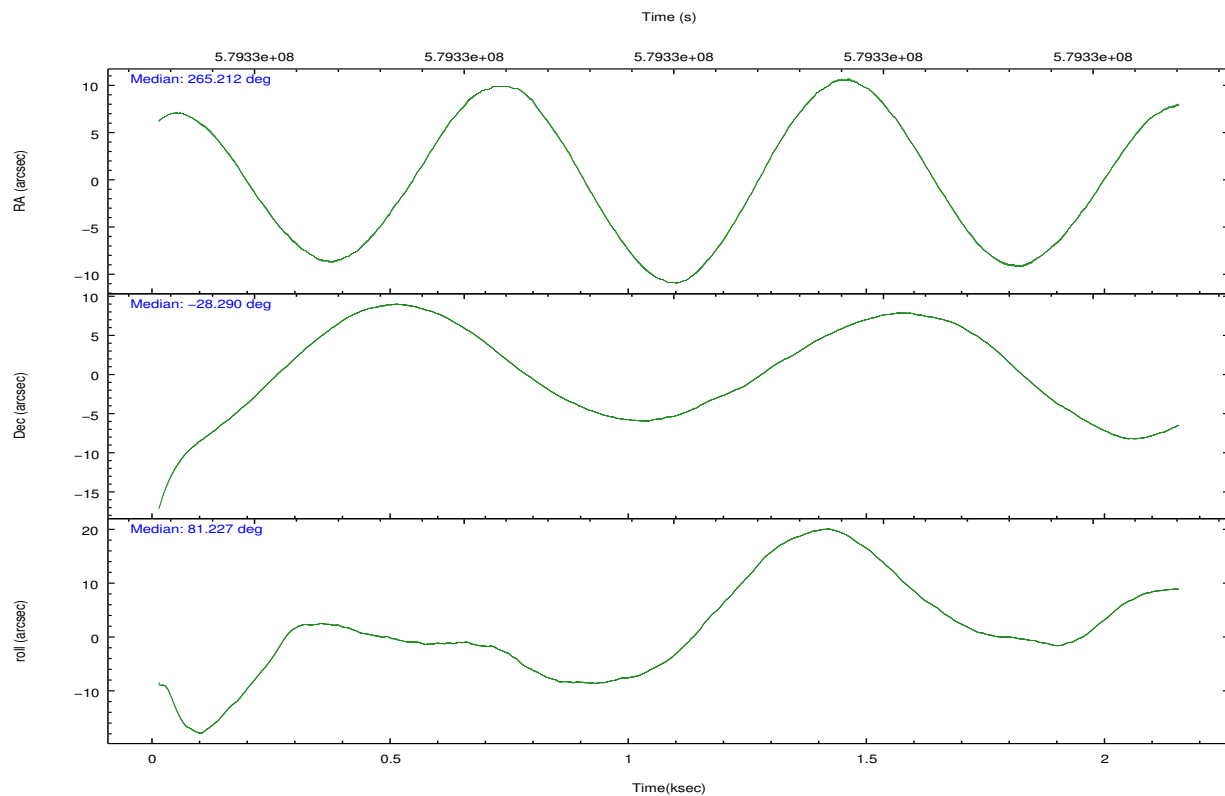
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	684	815	841	1647	644
	5%	7%	5%	11%	5%
grade 1 events	8	4	13	91	9
	0%	0%	0%	0%	0%
grade 2 events	372	410	376	513	335
	3%	3%	2%	3%	2%
grade 3 events	157	153	164	205	173
	1%	1%	1%	1%	1%
grade 4 events	149	168	155	236	167
	1%	1%	1%	1%	1%
grade 5 events	529	629	483	744	595
	4%	5%	3%	5%	4%
grade 6 events	335	383	280	424	368
	2%	3%	1%	3%	2%
grade 7 events	10086	8737	12472	10229	10559
	81%	77%	84%	72%	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	265.223453	265.2119280734037	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.315384	-28.28987728069971	CCD I3 on	Y	Y
[deg] Pointing Roll	81.026262	81.22954590434534	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)	579326556.184000	579325409.20868	CCD S5 on	N	N
Observation start date	2016-05-11T04:01:28	2016-05-11T03:43:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579328556.184000	579328689.72137	On-chip summing requested	N	N
Observation end date	2016-05-11T04:34:48	2016-05-11T04:38:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



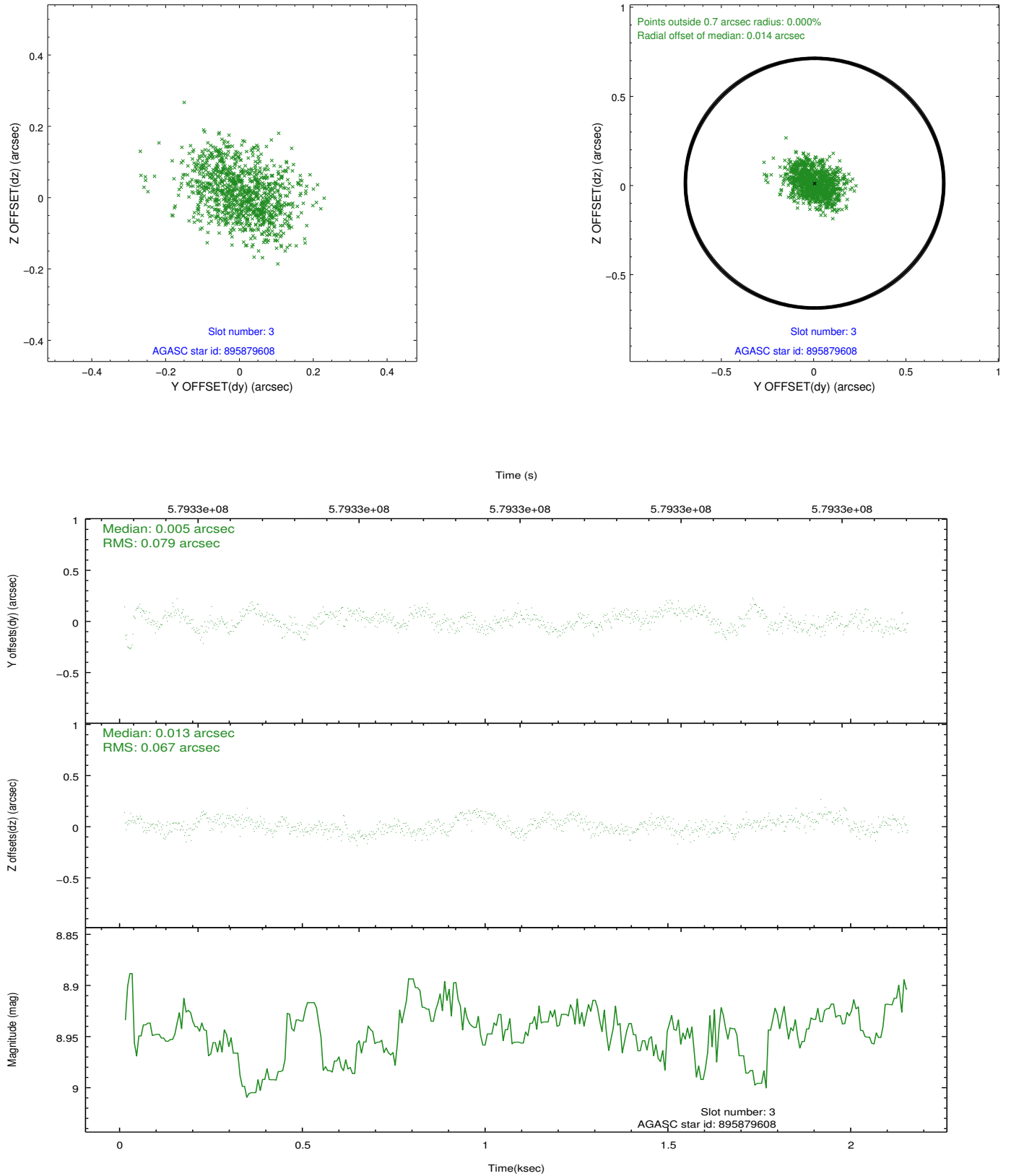


Slot Statistics

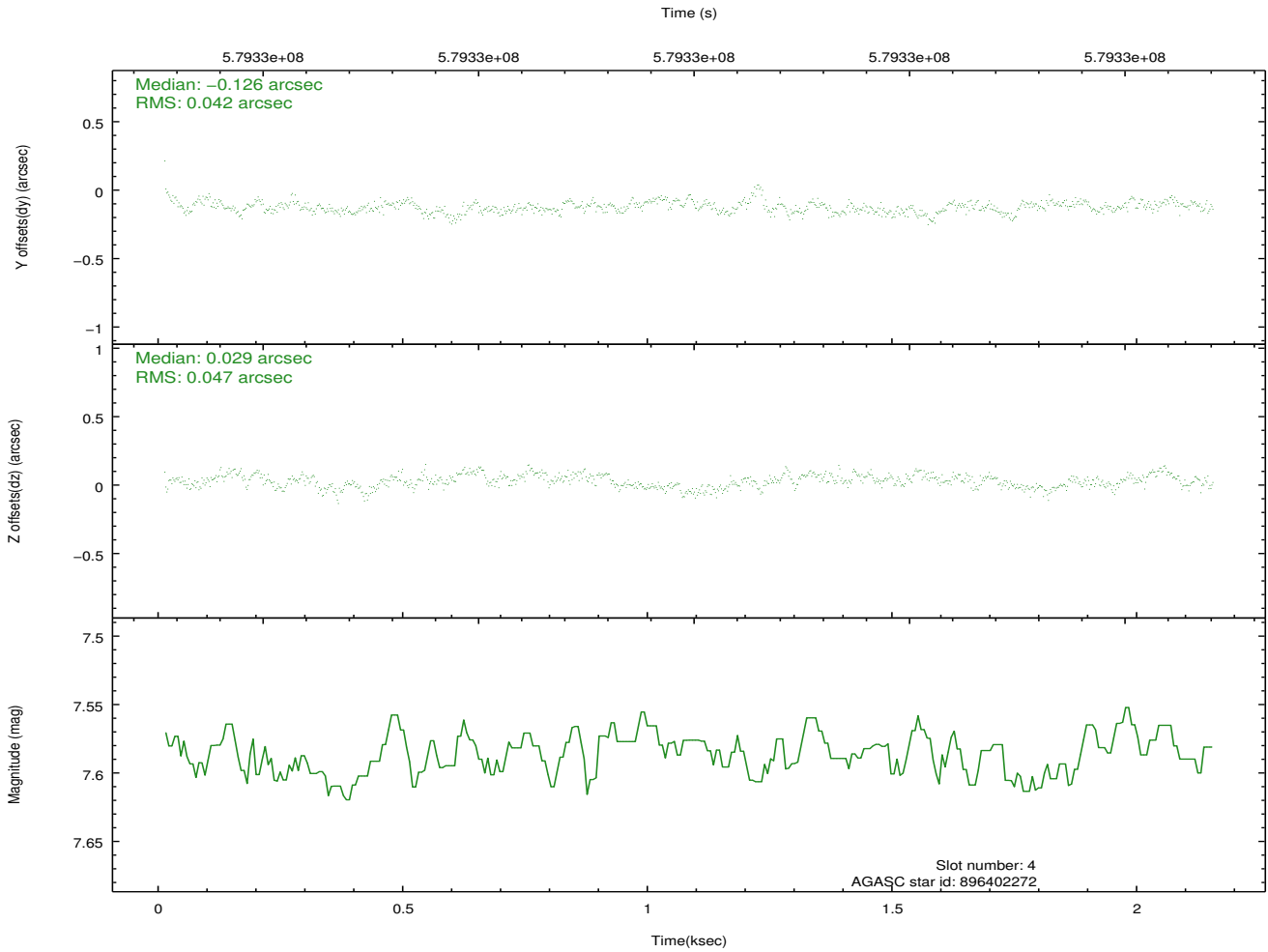
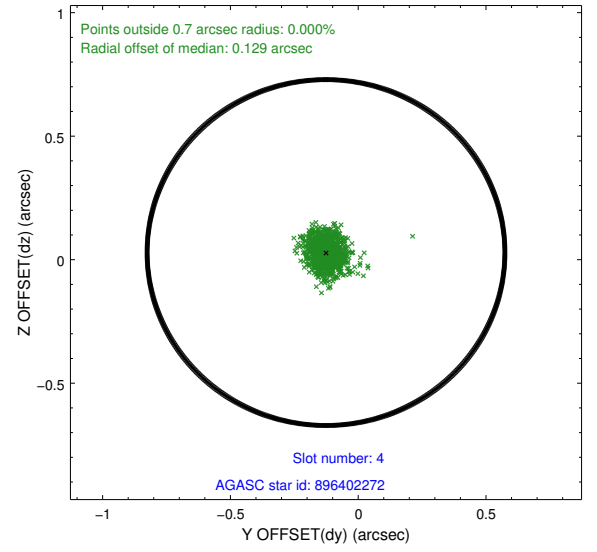
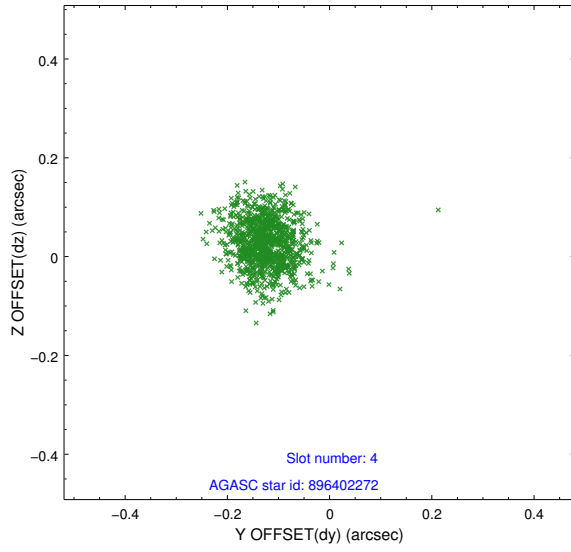
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	523	0.114	-0.122	0.007	0.013	0.000000	0.000000	931.22	-839.08
1	FID		ACIS-I-5	7.23	523	-0.313	0.072	0.006	0.012	0.000000	0.000000	-1815.66	1057.02
2	FID		ACIS-I-6	7.23	523	0.109	0.121	0.008	0.011	0.000000	0.000000	393.41	1705.07
3	GUIDE	used	895879608	8.94	1045	0.005	0.013	0.111	0.170	265.708239	-27.843915	1915.28	-1260.00
4	GUIDE	used	896402272	7.59	1046	-0.126	0.029	0.067	0.108	265.637294	-28.313189	212.96	-1295.85
5	GUIDE	used	896402976	7.48	1046	0.035	0.007	0.084	0.130	265.099474	-28.923203	-2221.24	43.18
6	GUIDE	used	896404568	7.84	1046	0.064	0.098	0.073	0.125	265.687293	-28.431080	-186.12	-1515.75
7	GUIDE	used	896405616	7.82	1045	0.011	-0.146	0.085	0.130	264.752771	-28.412560	-581.53	1416.40

2.4 Star Slots

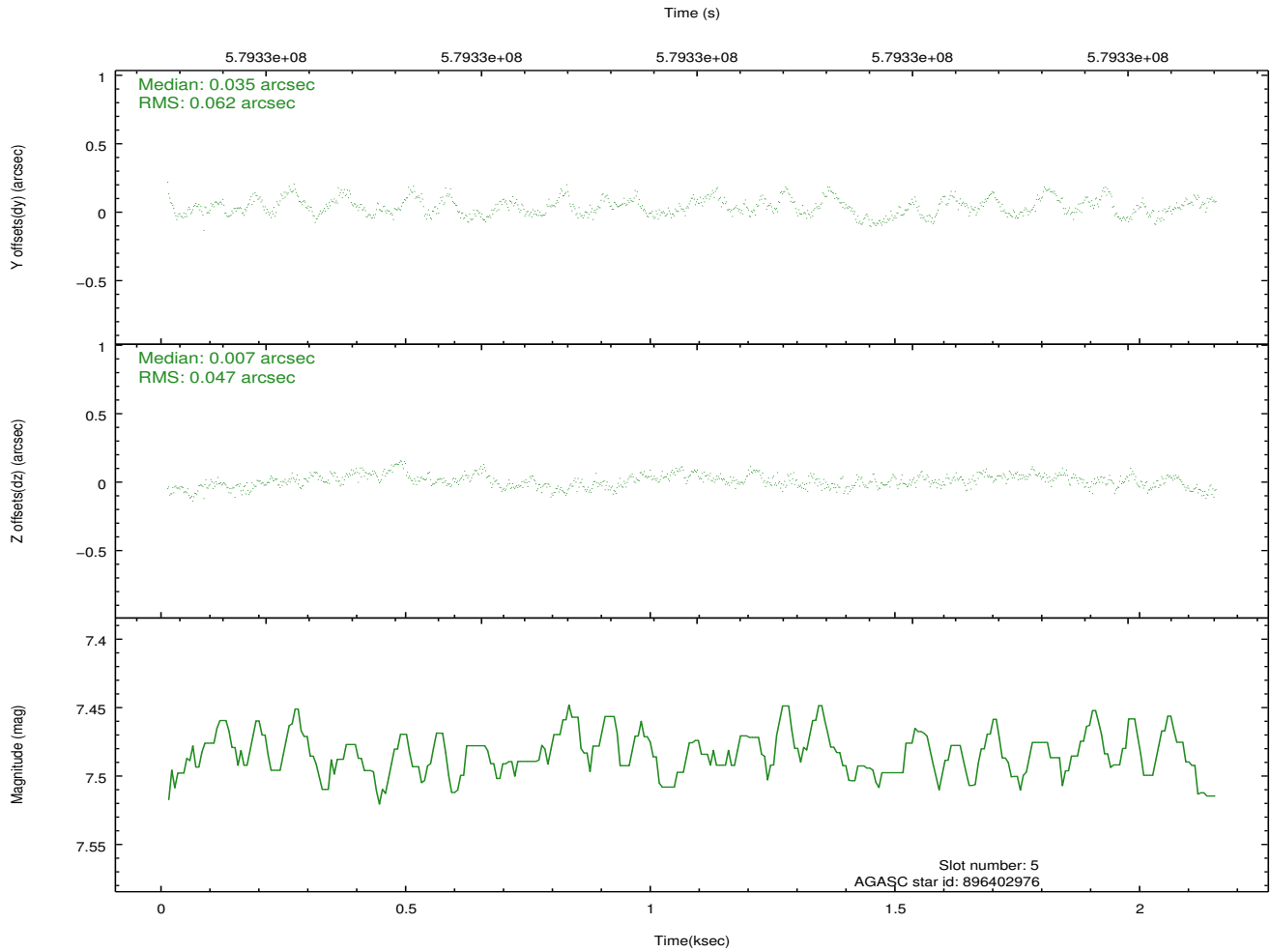
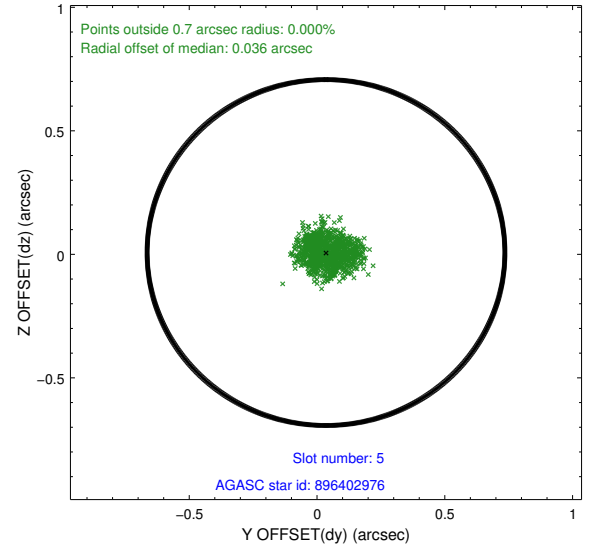
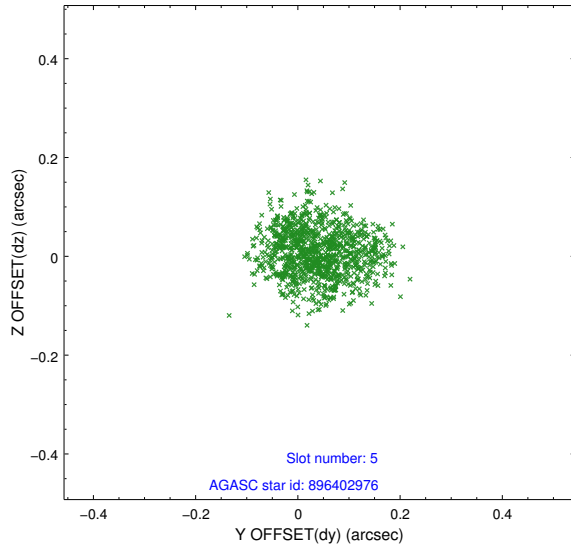
2.4.1 Slot 3



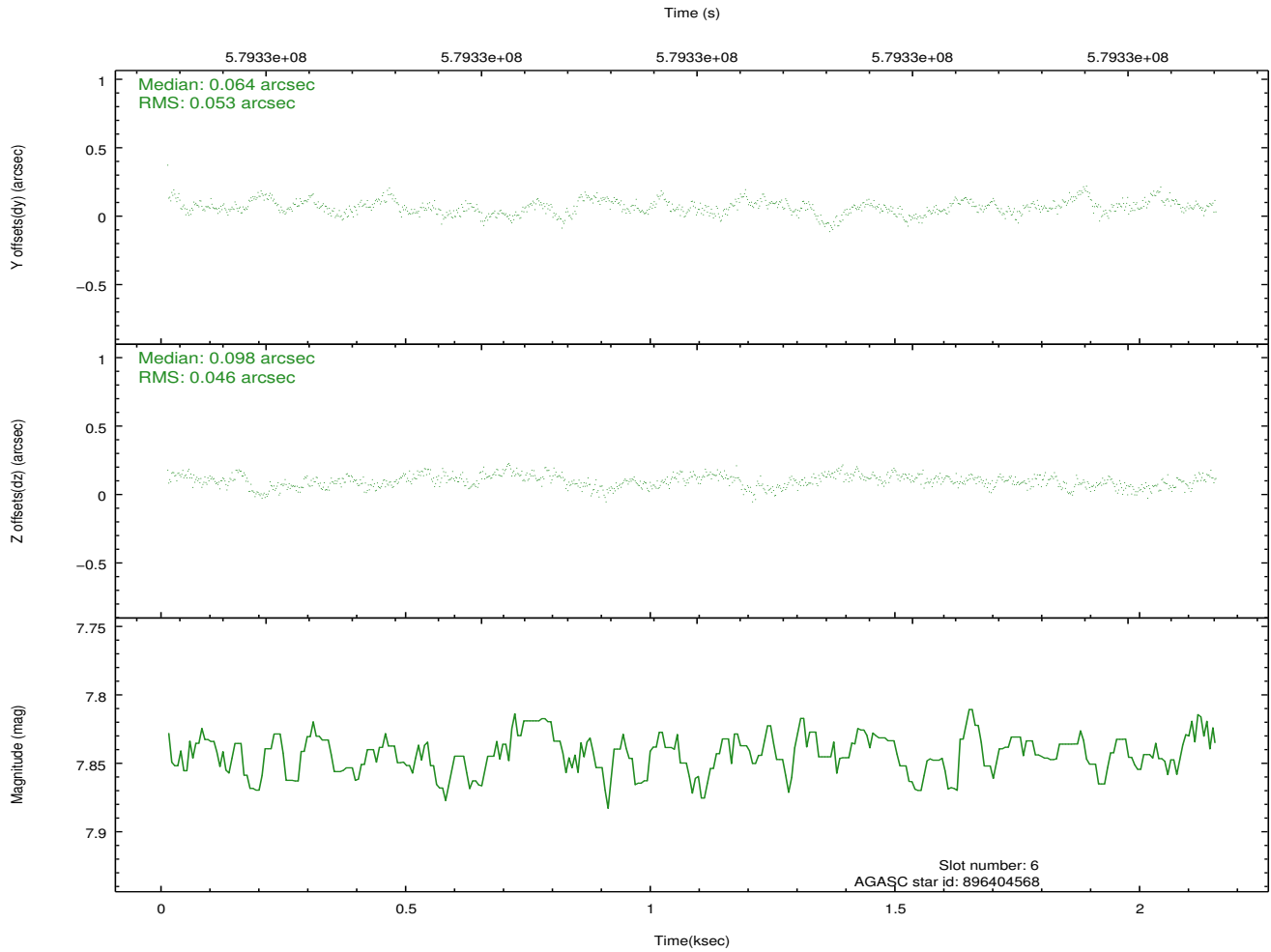
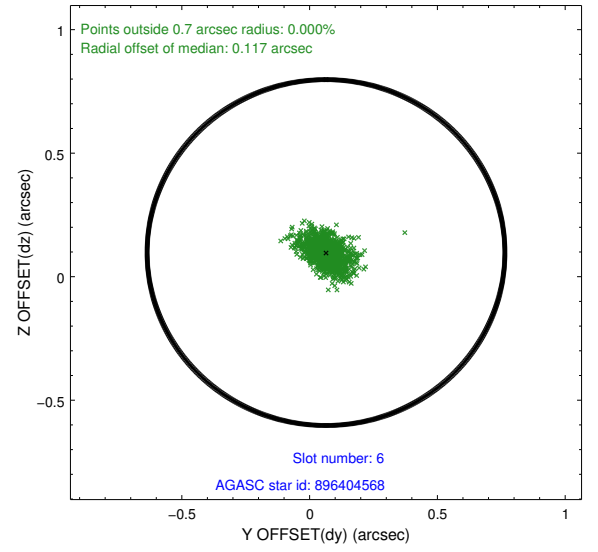
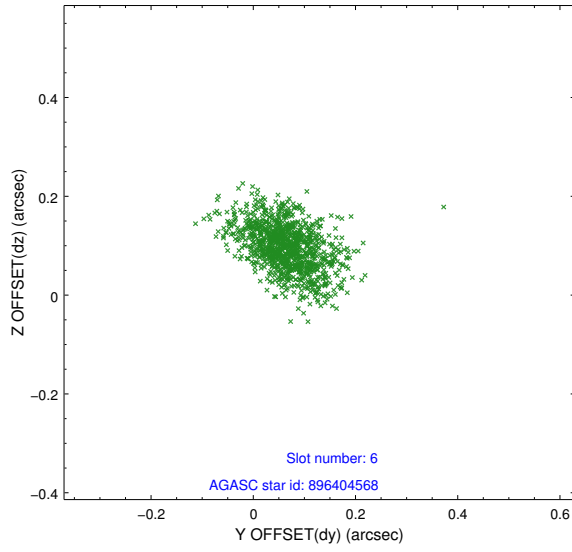
2.4.2 Slot 4



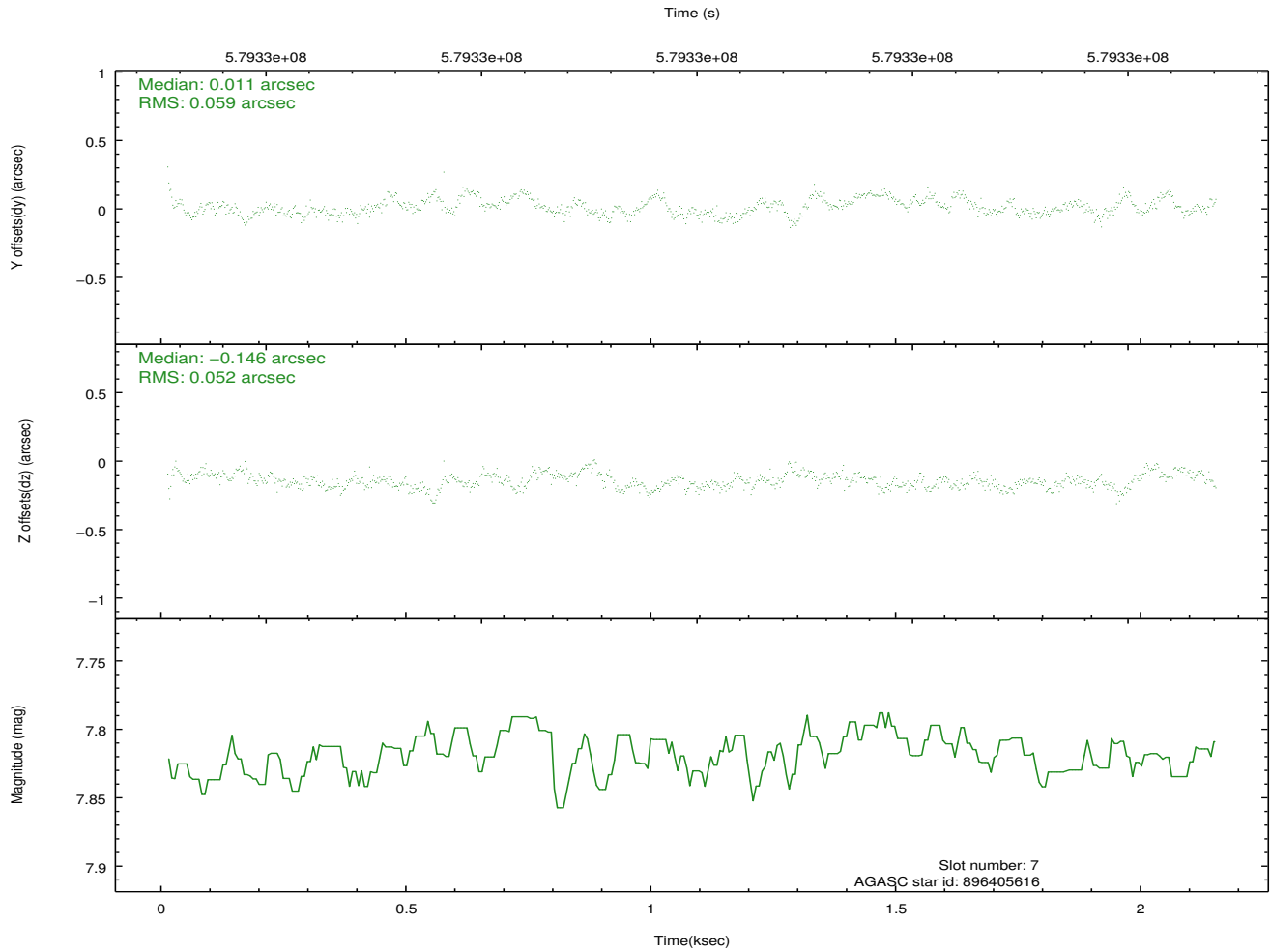
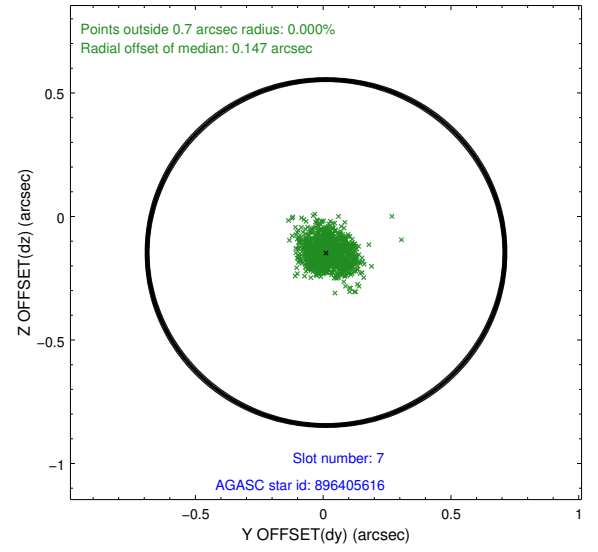
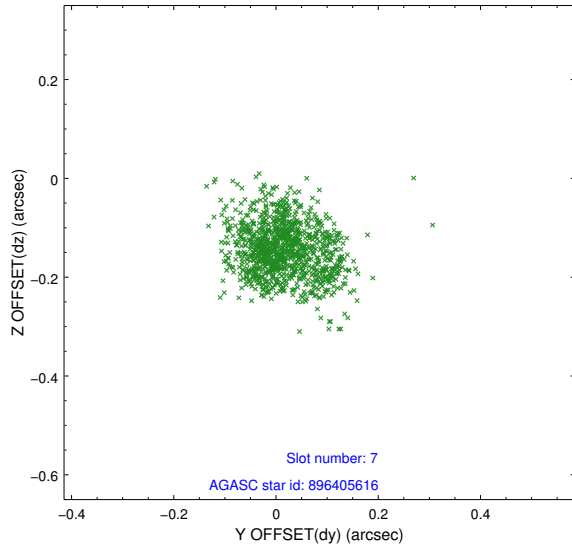
2.4.3 Slot 5



2.4.4 Slot 6

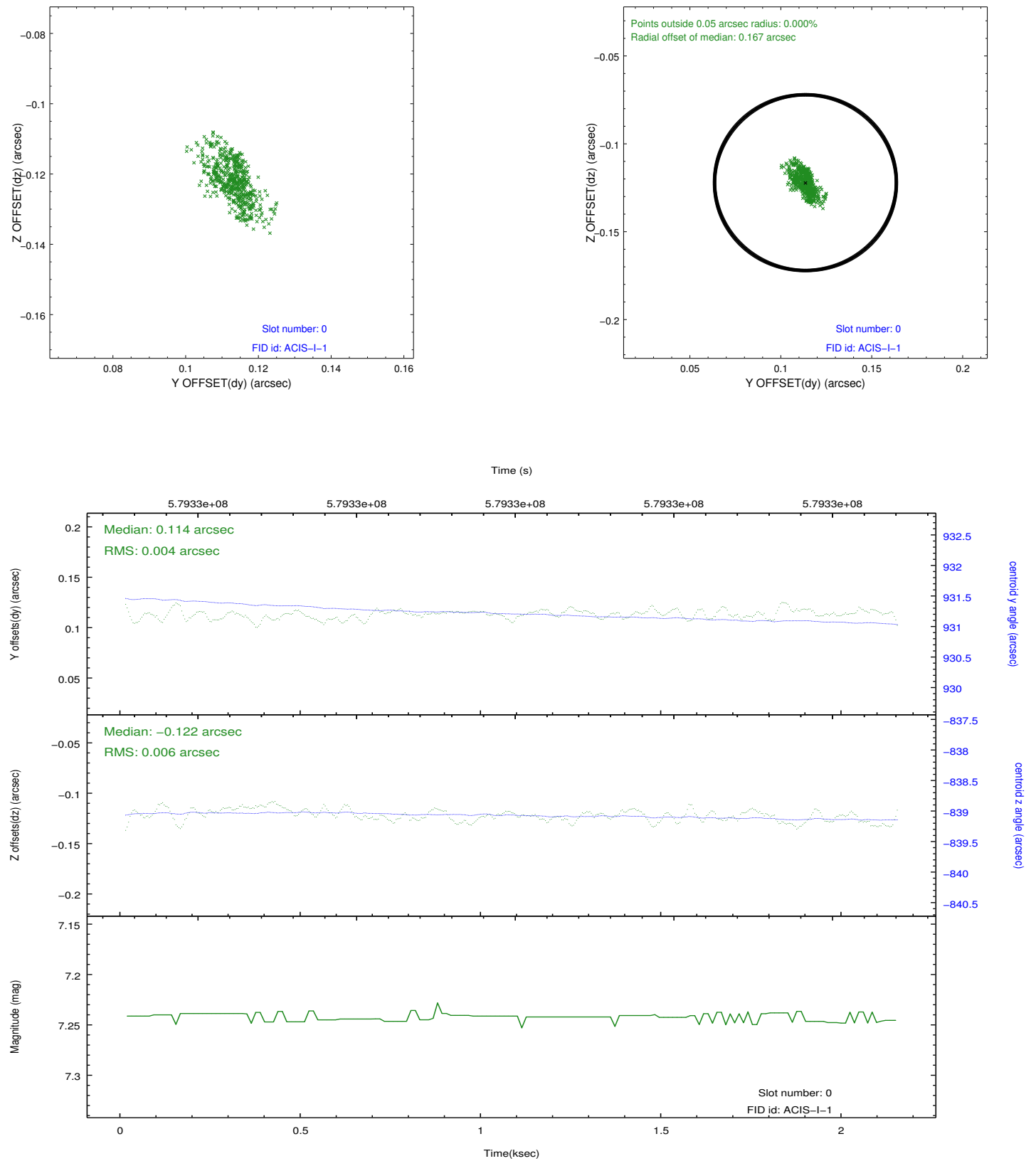


2.4.5 Slot 7

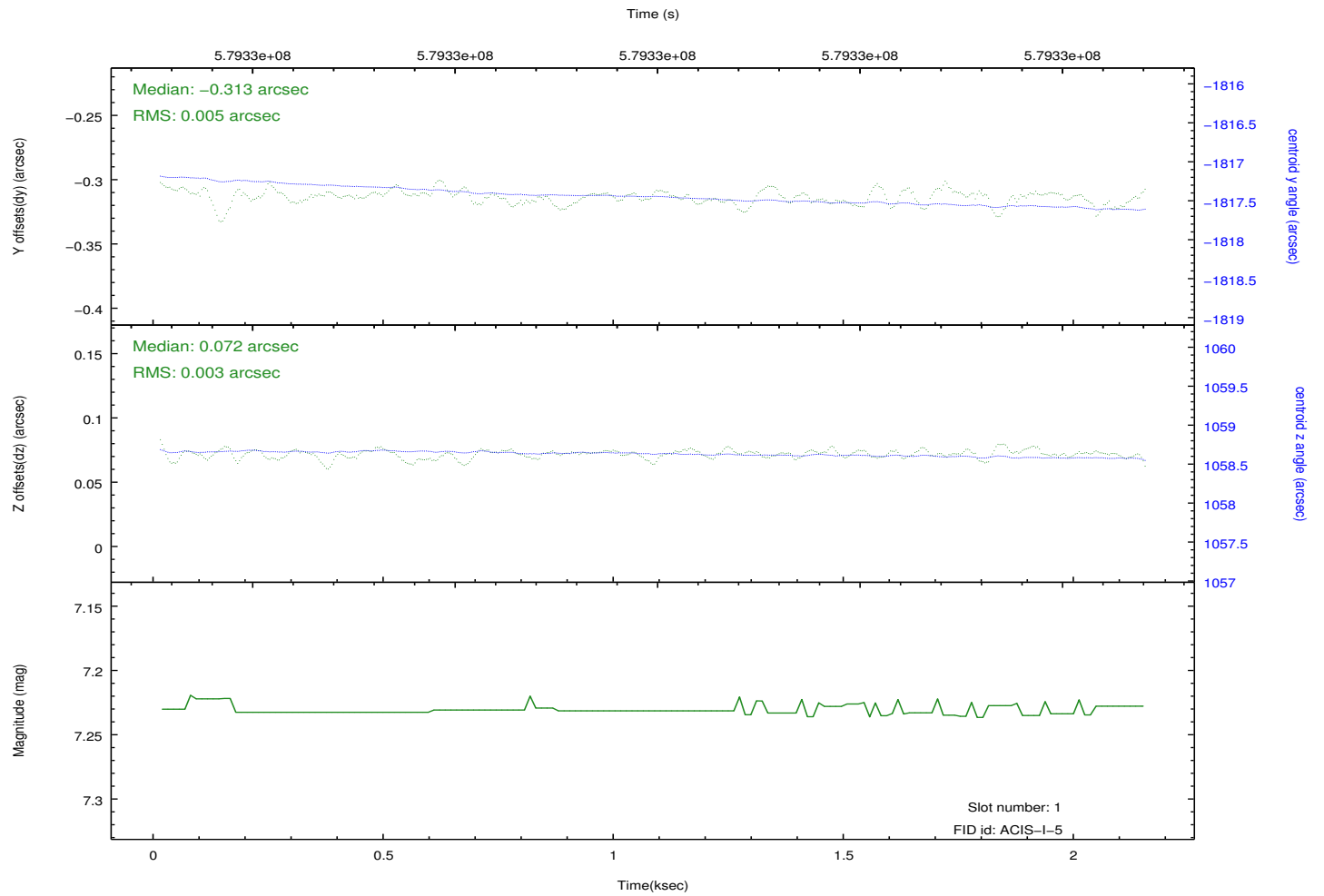
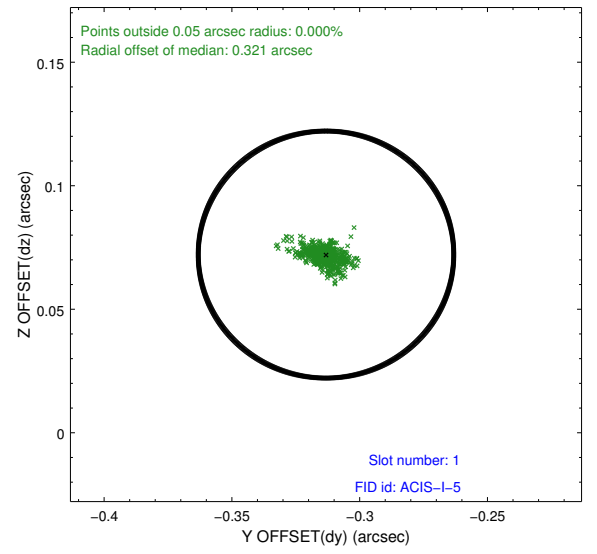
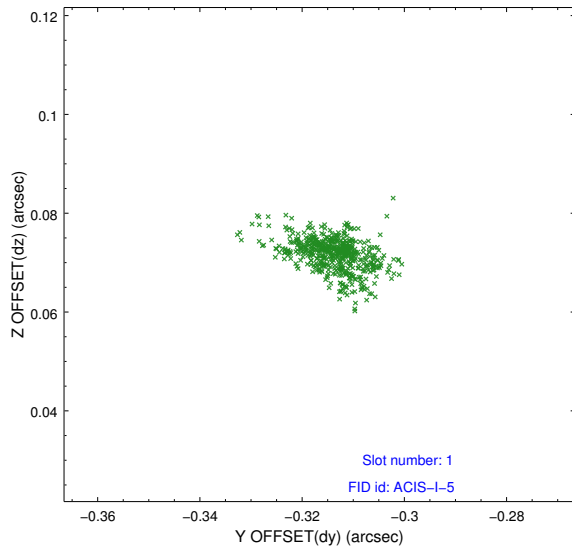


2.5 FID Slots

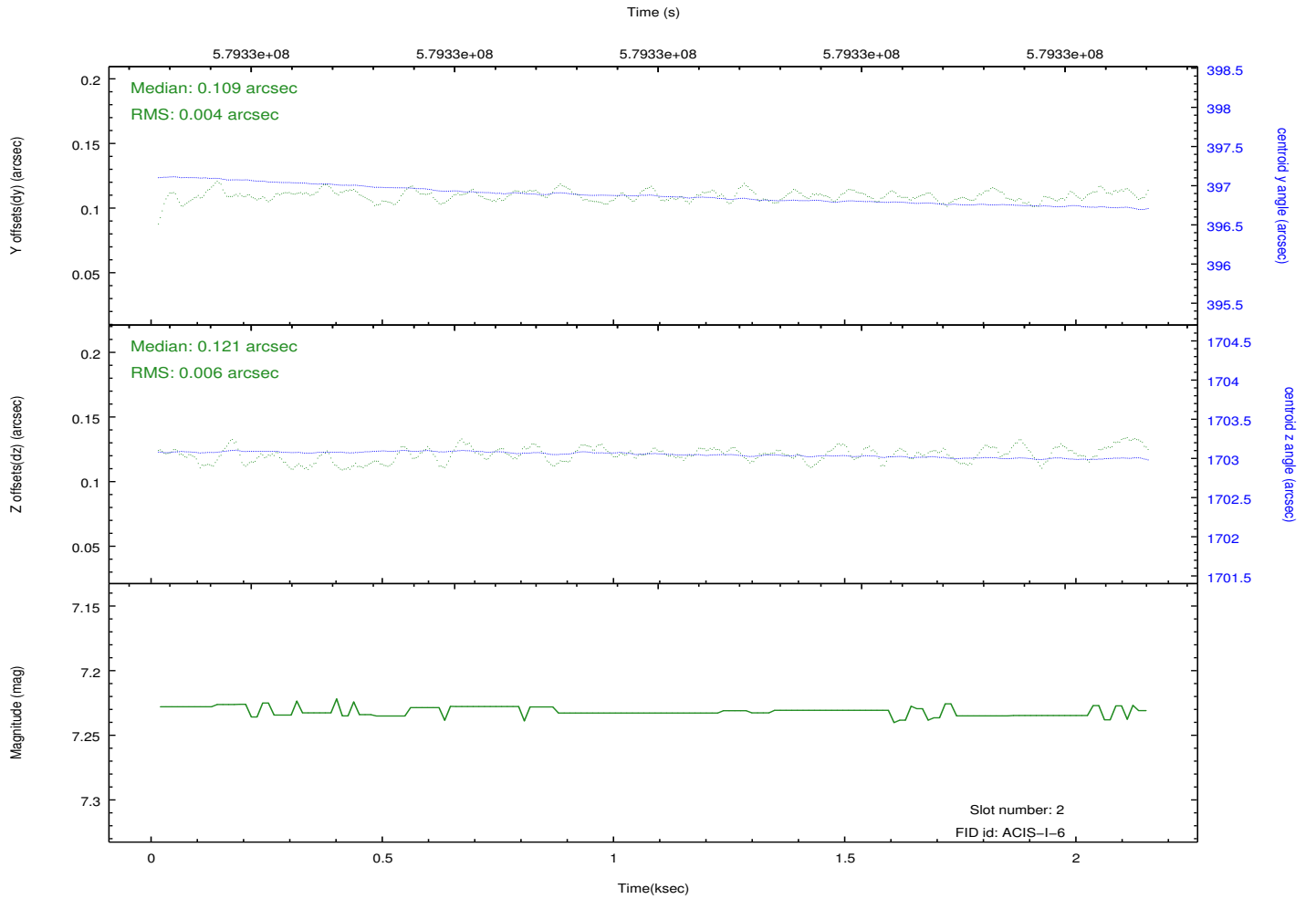
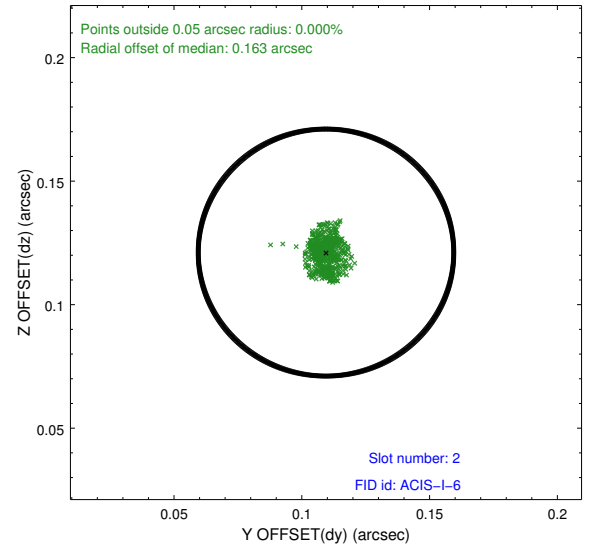
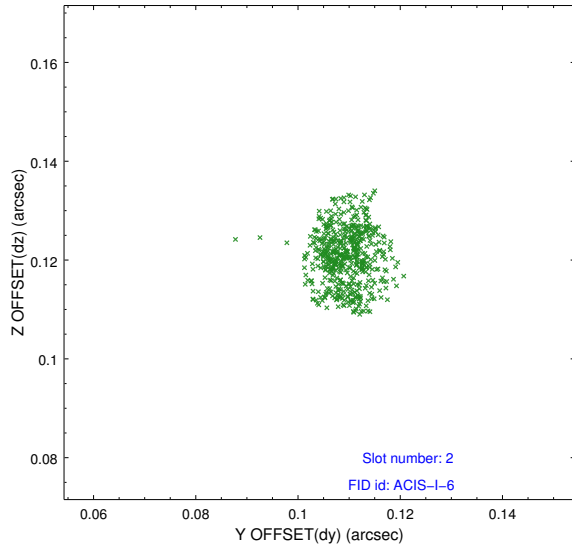
2.5.1 Slot 0



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	2.073649808526

A.2 Comments