

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12023 - L2 Version 2
Chandra X-Ray Center

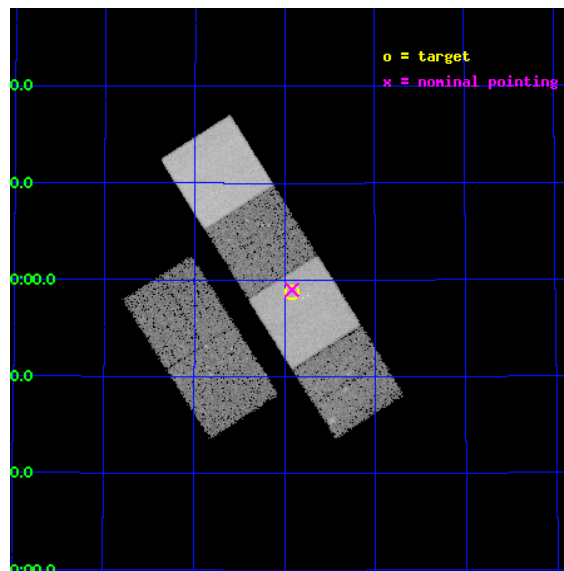
L2 Processing Date : Jun 17 2012

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1 Front

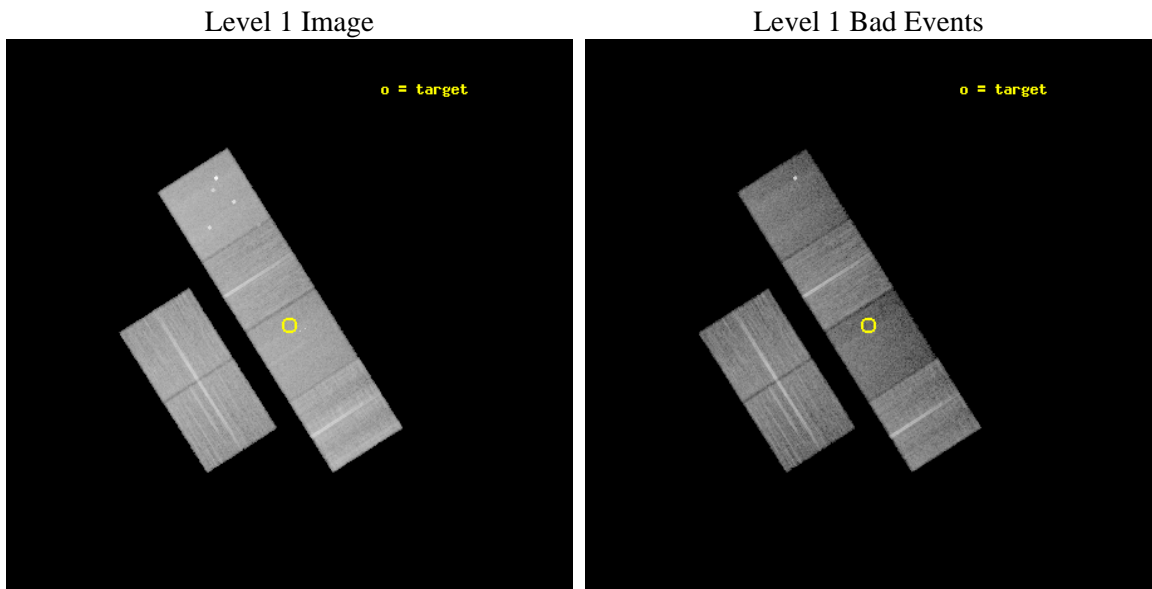
seq_num	501344	Sequence number
obs_id	12023	Observation id
title	Search for Long GRB Jet Breaks	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 091020	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.73005	Observer's specified target RA [deg]
dec_targ	50.97839	Observer's specified target Dec [deg]
ra_nom	175.73017884391	Nominal RA [deg]
dec_nom	50.983244075789	Nominal Dec [deg]
roll_nom	57.656542411042	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18540.358759642	Sum of GTIs [s]
livetime	18305.589573363	Livetime [s]
ontime2	18537.15879941	Sum of GTIs [s]
ontime3	18536.994669259	Sum of GTIs [s]
ontime5	18540.317719638	Sum of GTIs [s]
ontime6	18540.276679635	Sum of GTIs [s]
ontime7	18540.358759642	Sum of GTIs [s]
ontime8	18540.194599628	Sum of GTIs [s]
l2events	221691	Number of level 2 events



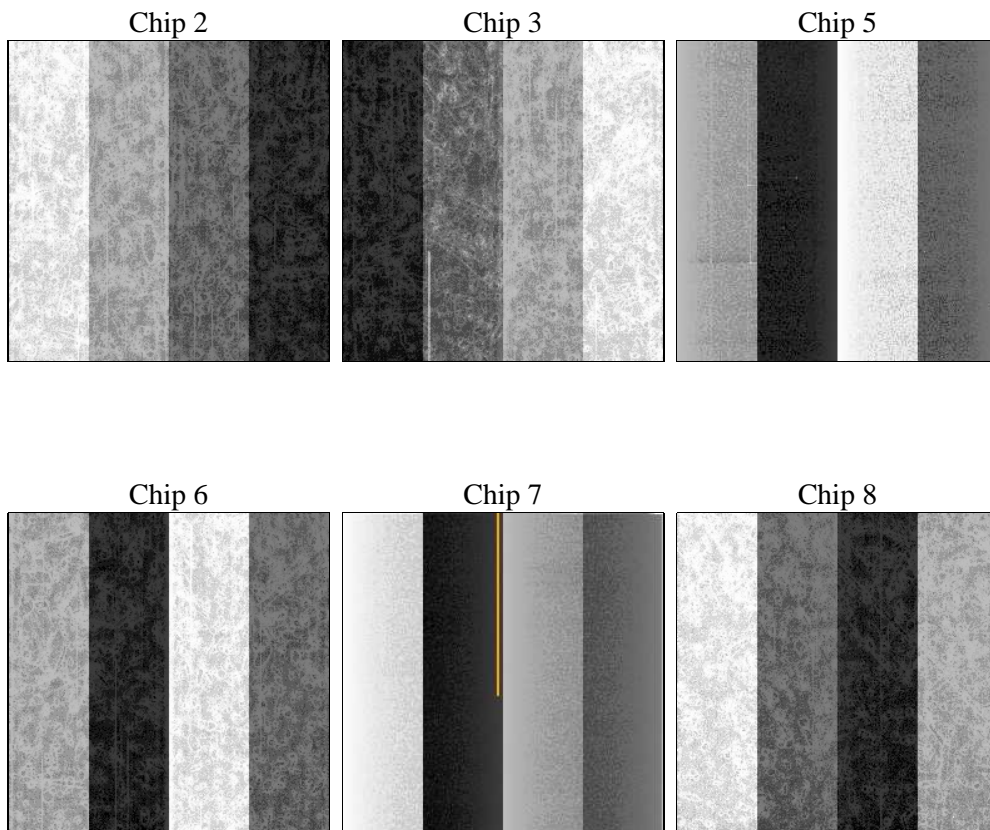
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	18540.358759642	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	18537.15879941	Sum of GTIs [s]
date	2012-06-17T05:46:56	Date and time of file creation	ontime3	18536.994669259	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	18540.317719638	Sum of GTIs [s]
			ontime6	18540.276679635	Sum of GTIs [s]
			ontime7	18540.358759642	Sum of GTIs [s]
			ontime8	18540.194599628	Sum of GTIs [s]
			l1events	1004814	Number of level 1 events

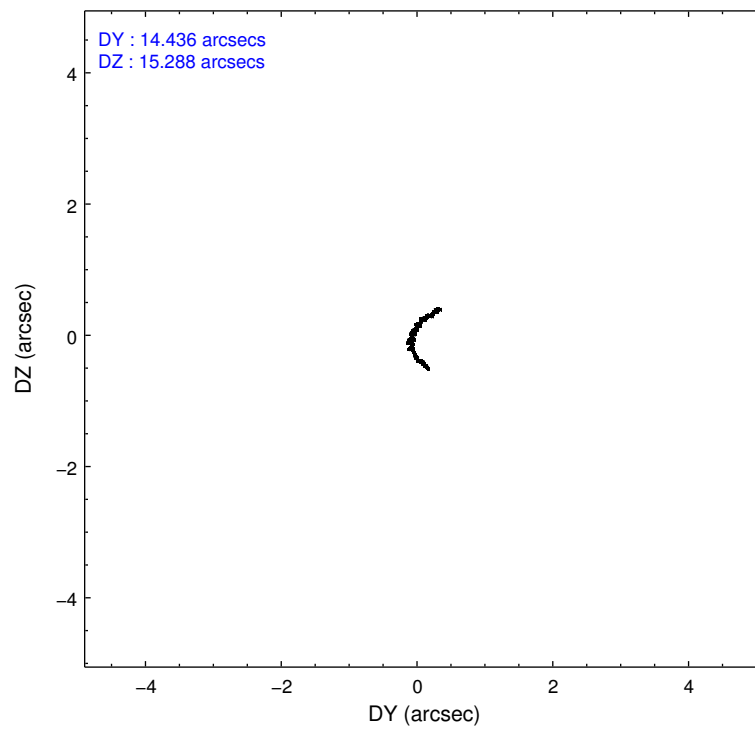
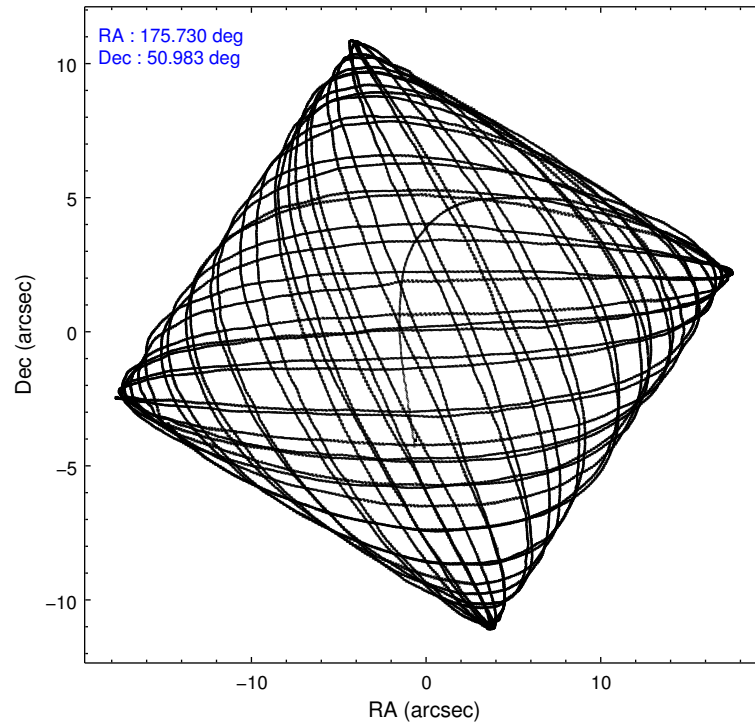
2.1.4 Events

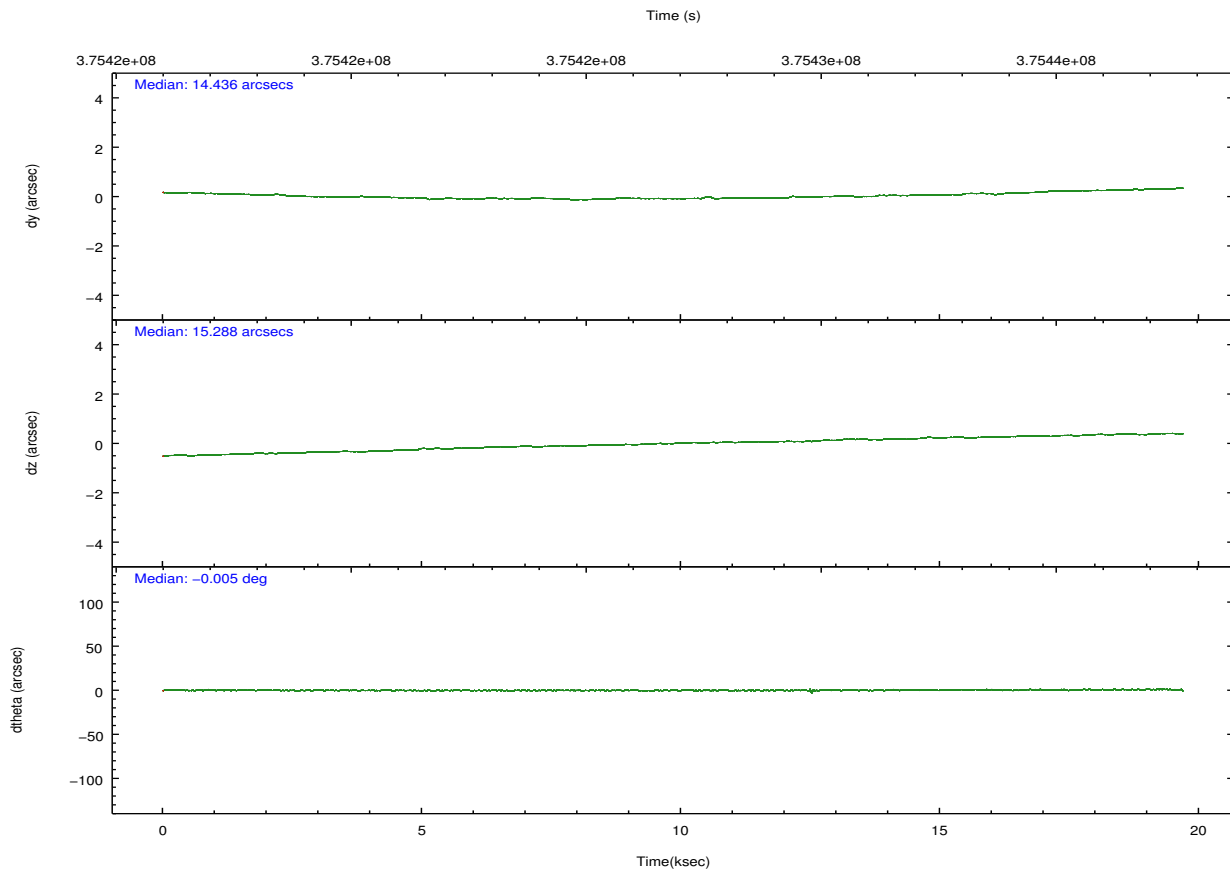
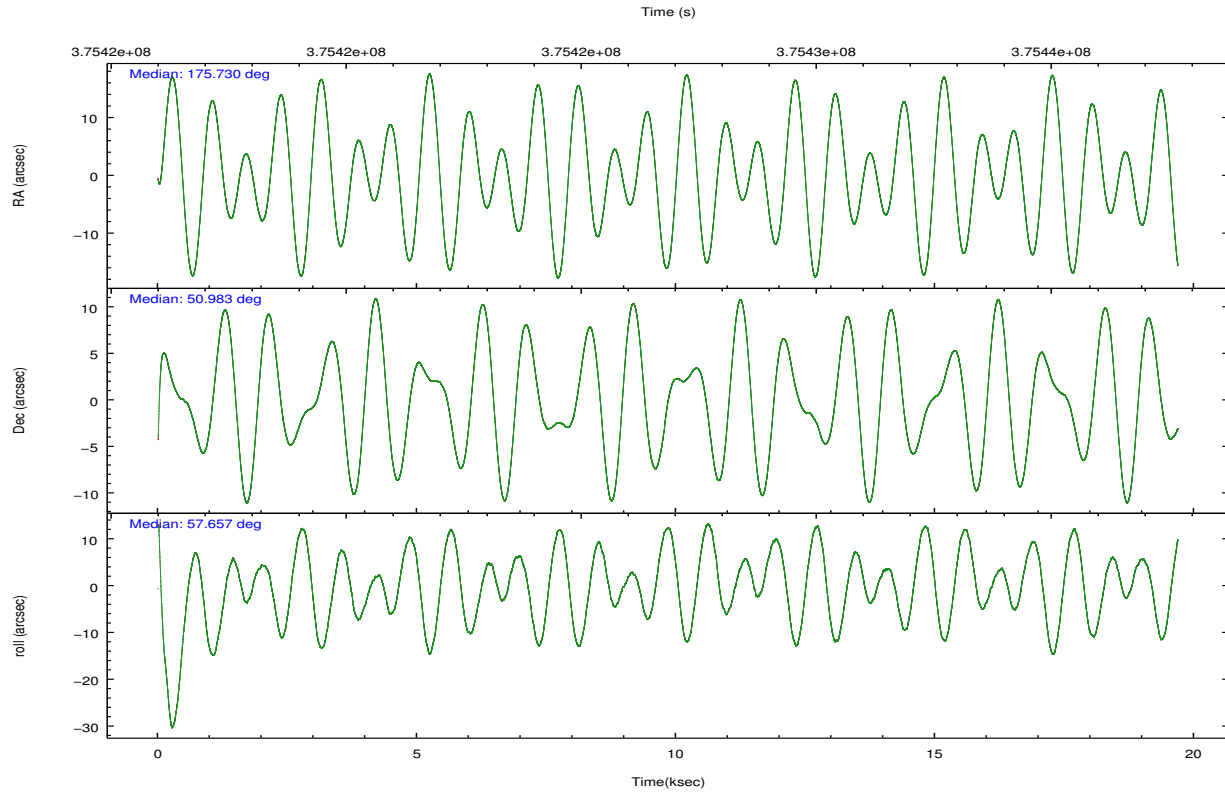
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	163454	147051	200973	153444	148404	191488	grade 0 events	5526	5486	13450	5786	7731	14376
rejected events	148552	132729	93282	137684	74650	140814		3%	3%	6%	3%	5%	7%
rejected %	90%	90%	46%	89%	50%	73%	grade 1 events	82	103	2226	82	248	169
								0%	0%	1%	0%	0%	0%
							grade 2 events	3713	3129	32998	3563	15797	11909
								2%	2%	16%	2%	10%	6%
							grade 3 events	1536	1564	4541	1682	6901	5482
								0%	1%	2%	1%	4%	2%
							grade 4 events	1571	1535	4445	1692	6679	5036
								0%	1%	2%	1%	4%	2%
							grade 5 events	4633	5179	15978	5236	15960	8222
								2%	3%	7%	3%	10%	4%
							grade 6 events	2557	2610	52280	3039	36665	13880
								1%	1%	26%	1%	24%	7%
							grade 7 events	143836	127445	75055	132364	58423	132414
								87%	86%	37%	86%	39%	69%

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	175.728964	175.7301788439081	CCD I2 on	O2	Y
[deg] Pointing Dec	50.955909	50.98324407578915	CCD I3 on	O3	Y
[deg] Pointing Roll	57.500847	57.65654241104199	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	375418193.184000	375416123.13384	CCD S5 on	N	N
Observation start date	2009-11-24T02:48:47	2009-11-24T02:15:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	375436693.184000	375437512.83492	On-chip summing requested	N	N
Observation end date	2009-11-24T07:57:07	2009-11-24T08:11:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



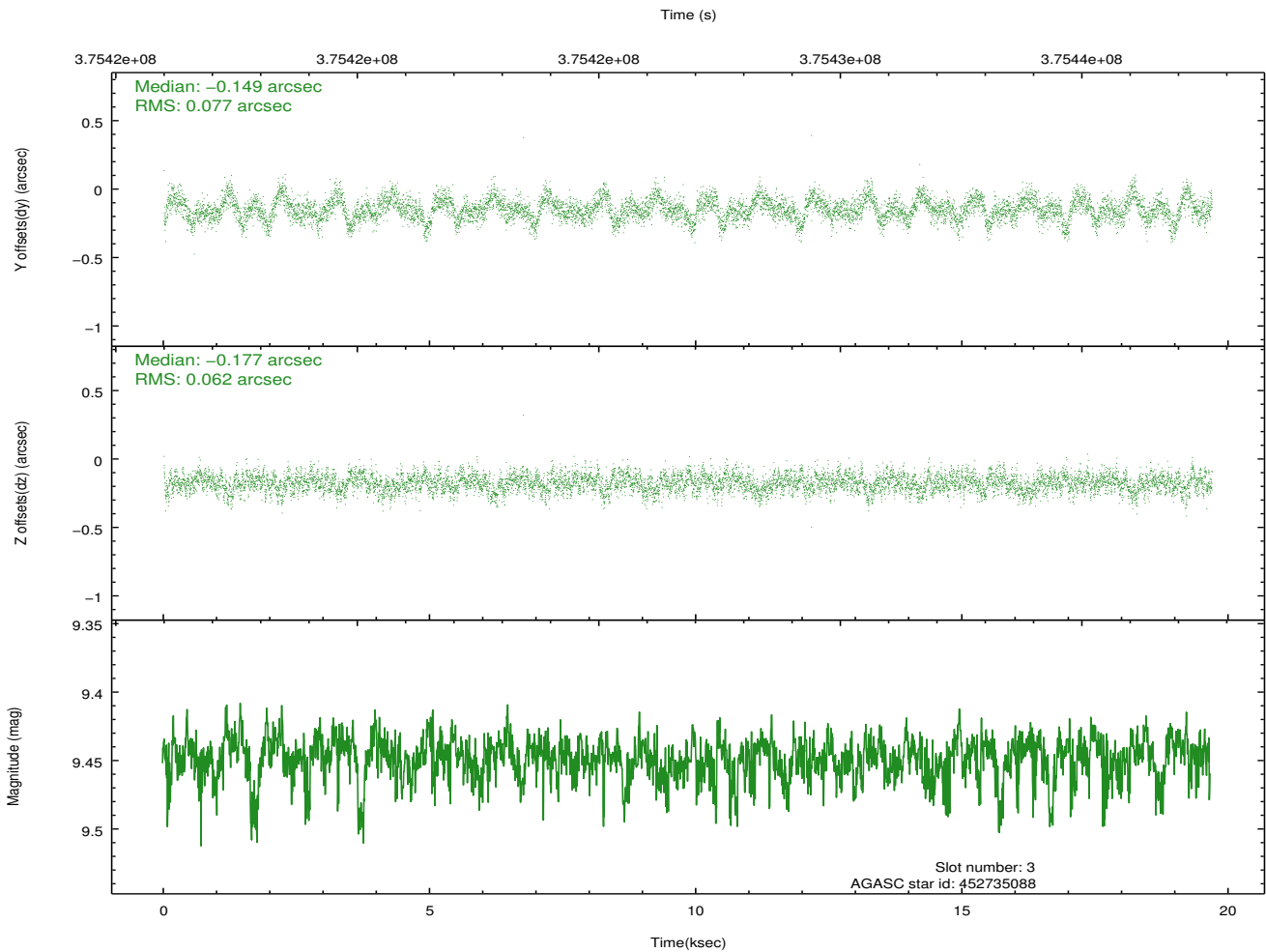
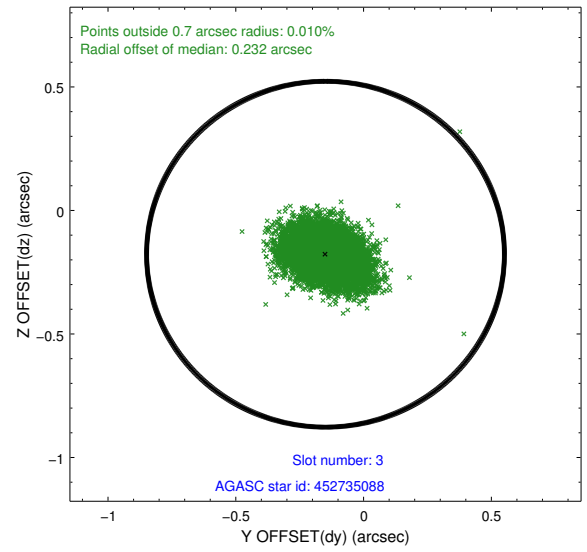
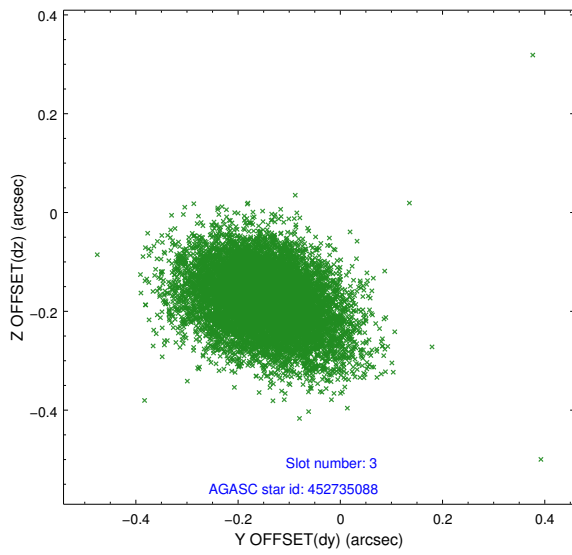


Slot Statistics

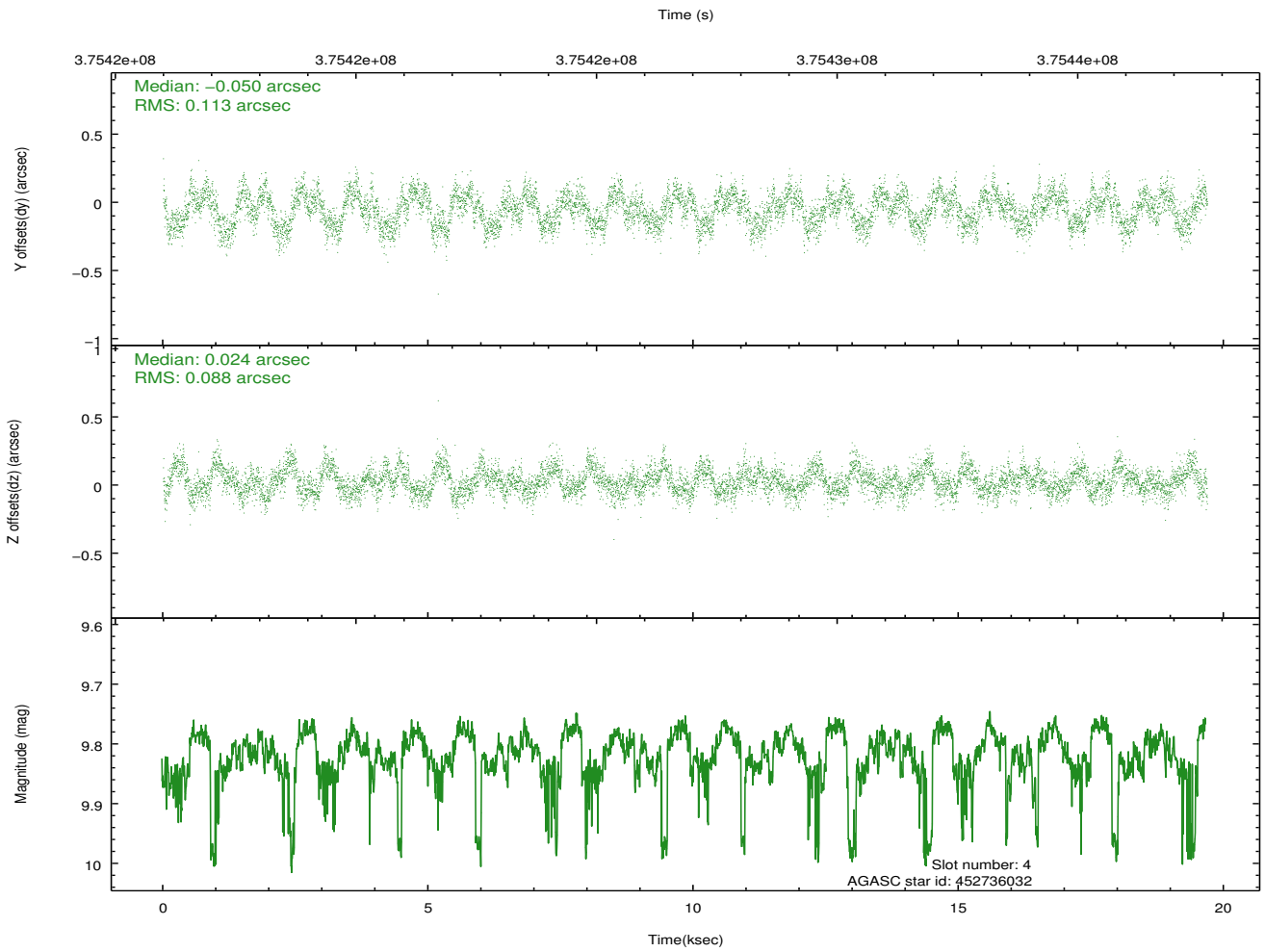
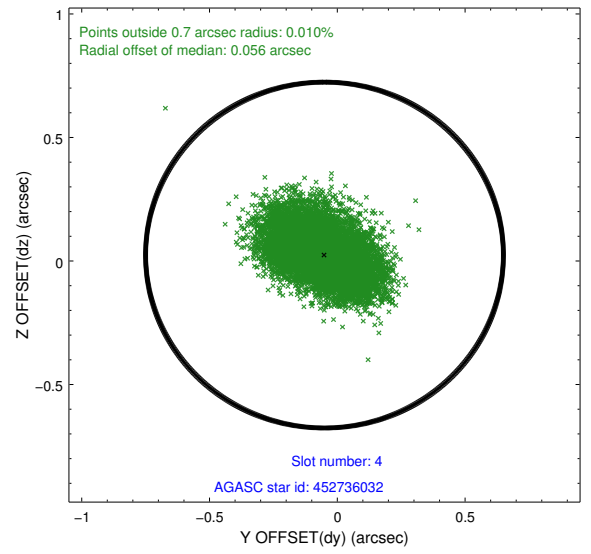
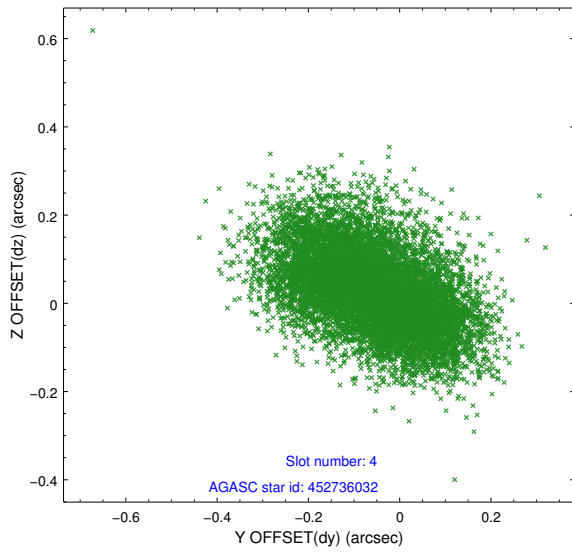
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	4802	-0.087	-0.025	0.008	0.013	0.000000	0.000000	-767.49	-1736.69
1	FID	ACIS-S-4	6.99	4802	0.217	0.049	0.006	0.010	0.000000	0.000000	2145.98	171.71
2	FID	ACIS-S-5	7.02	4802	-0.161	-0.015	0.007	0.012	0.000000	0.000000	-1820.18	165.48
3	GUIDE	452735088	9.45	9591	-0.149	-0.177	0.104	0.175	176.087412	51.094482	858.24	-414.11
4	GUIDE	452736032	9.82	9540	-0.050	0.024	0.154	0.246	176.666602	51.160729	1771.21	-1381.49
5	GUIDE	452736224	9.05	9594	-0.121	0.064	0.132	0.208	176.764586	50.971809	1323.63	-1941.09
6	GUIDE	452736584	8.00	9600	-0.019	0.316	0.068	0.106	176.535690	50.563566	-190.91	-2308.76
7	GUIDE	452738872	9.29	9597	0.341	-0.223	0.096	0.155	175.827129	50.610480	-927.31	-857.17

2.4 Star Slots

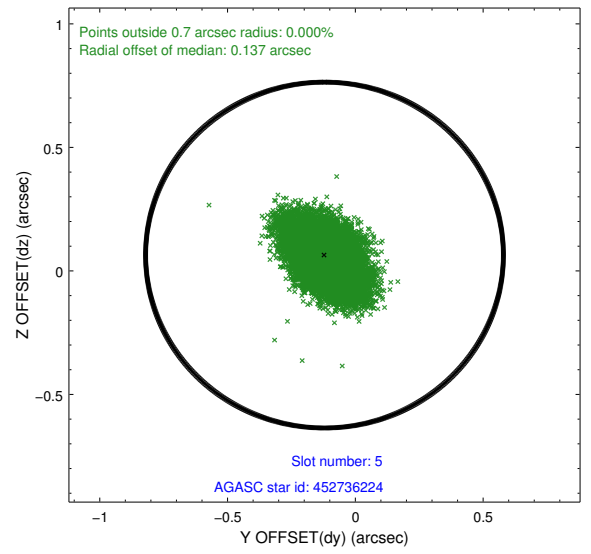
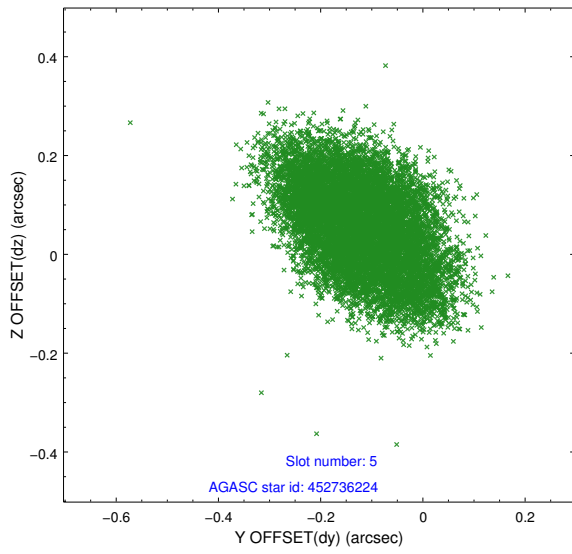
2.4.1 Slot 3



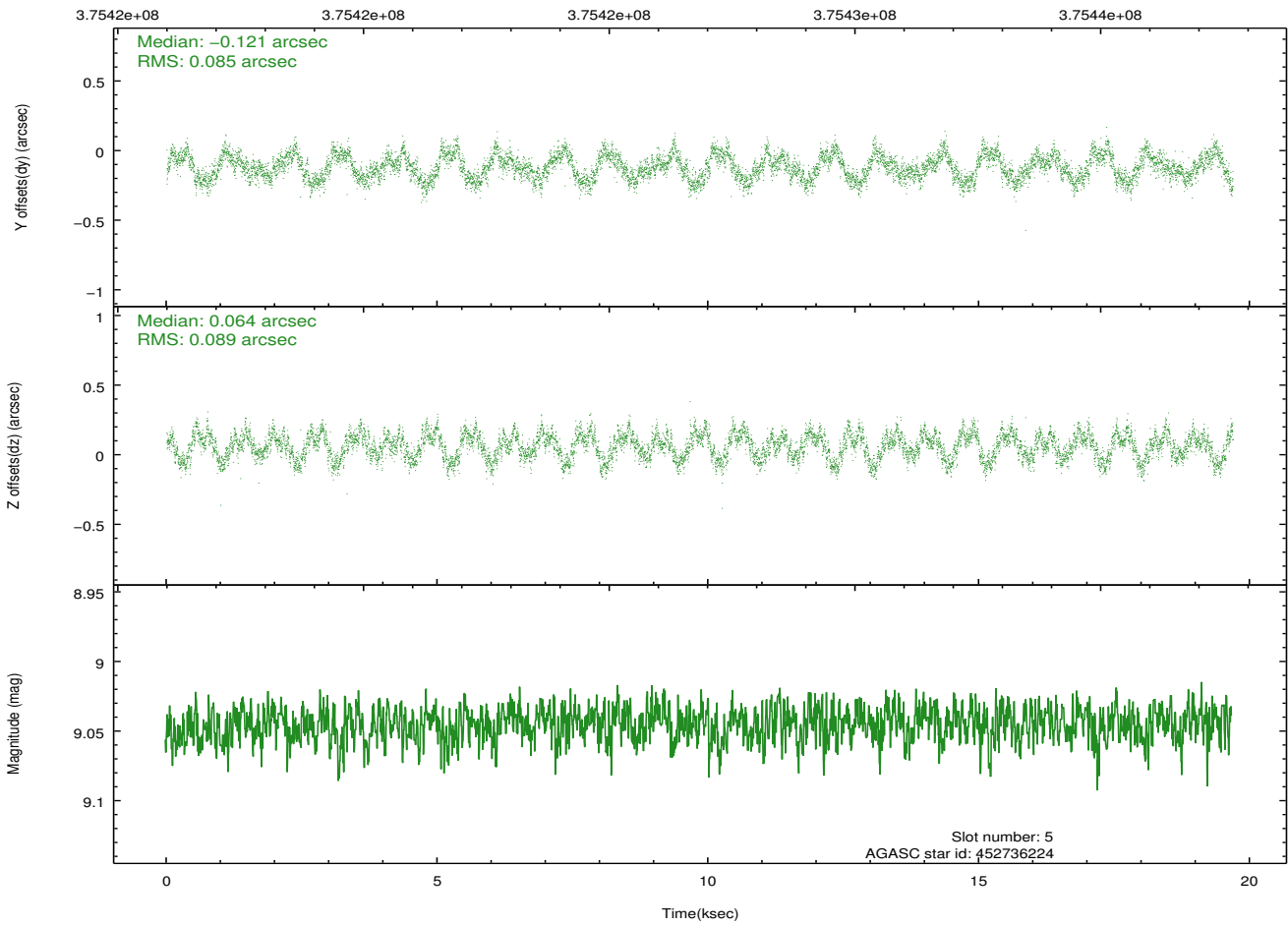
2.4.2 Slot 4



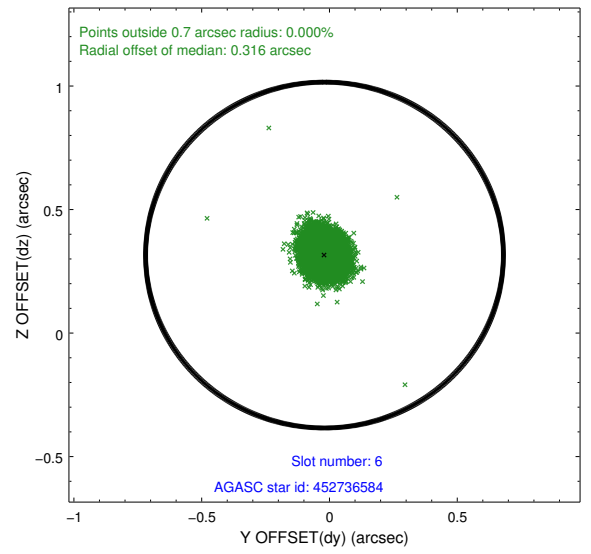
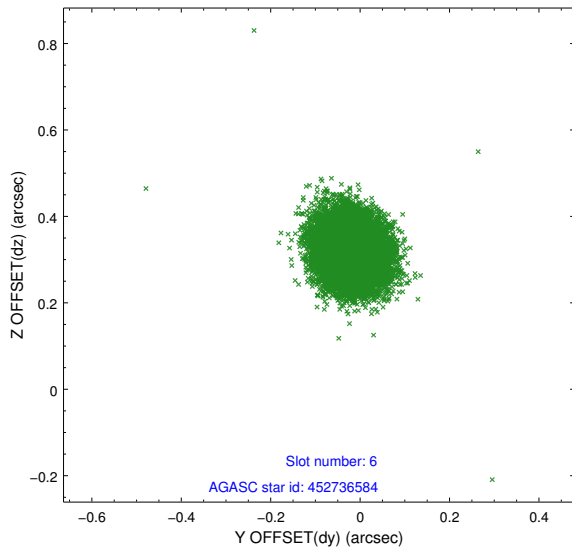
2.4.3 Slot 5



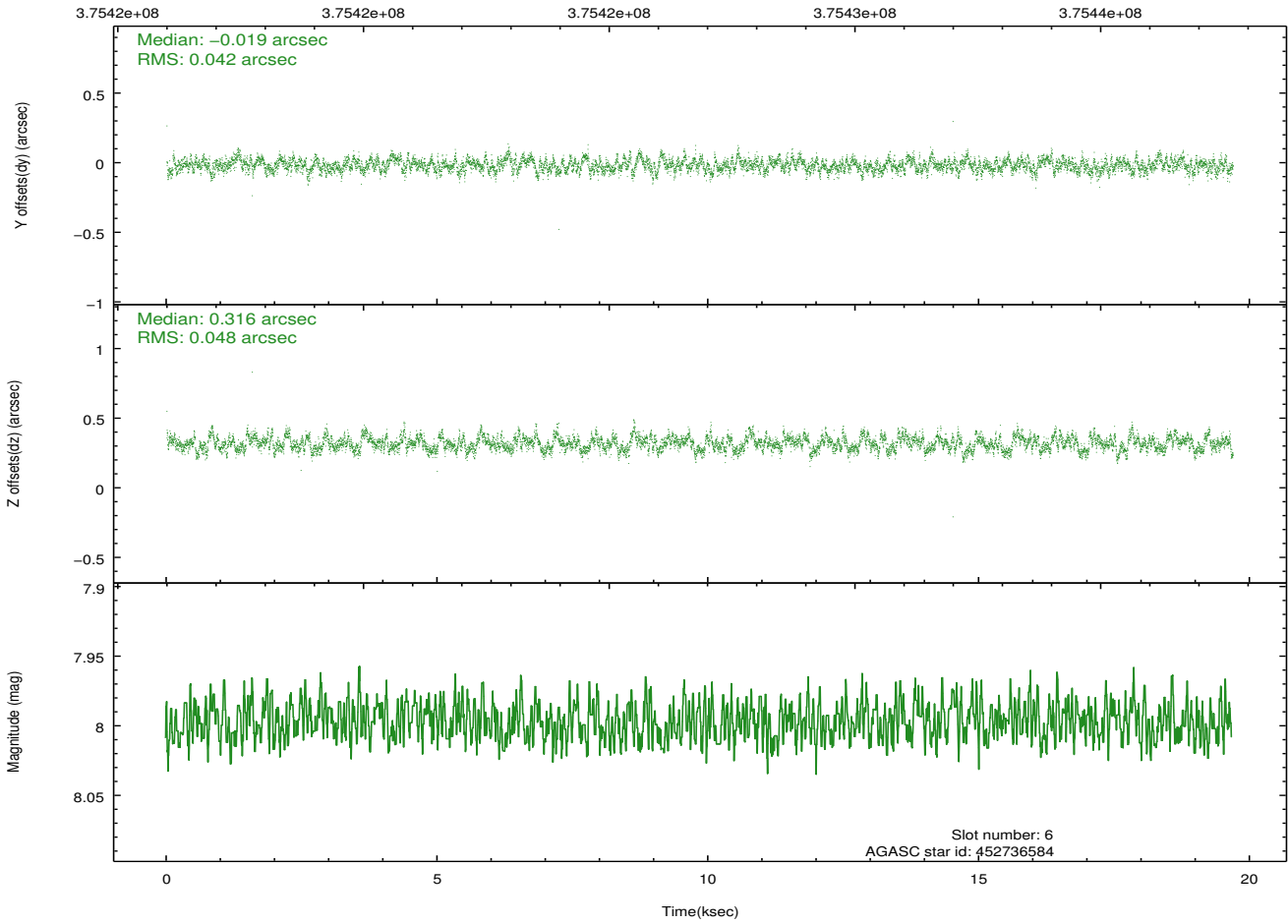
Time (s)



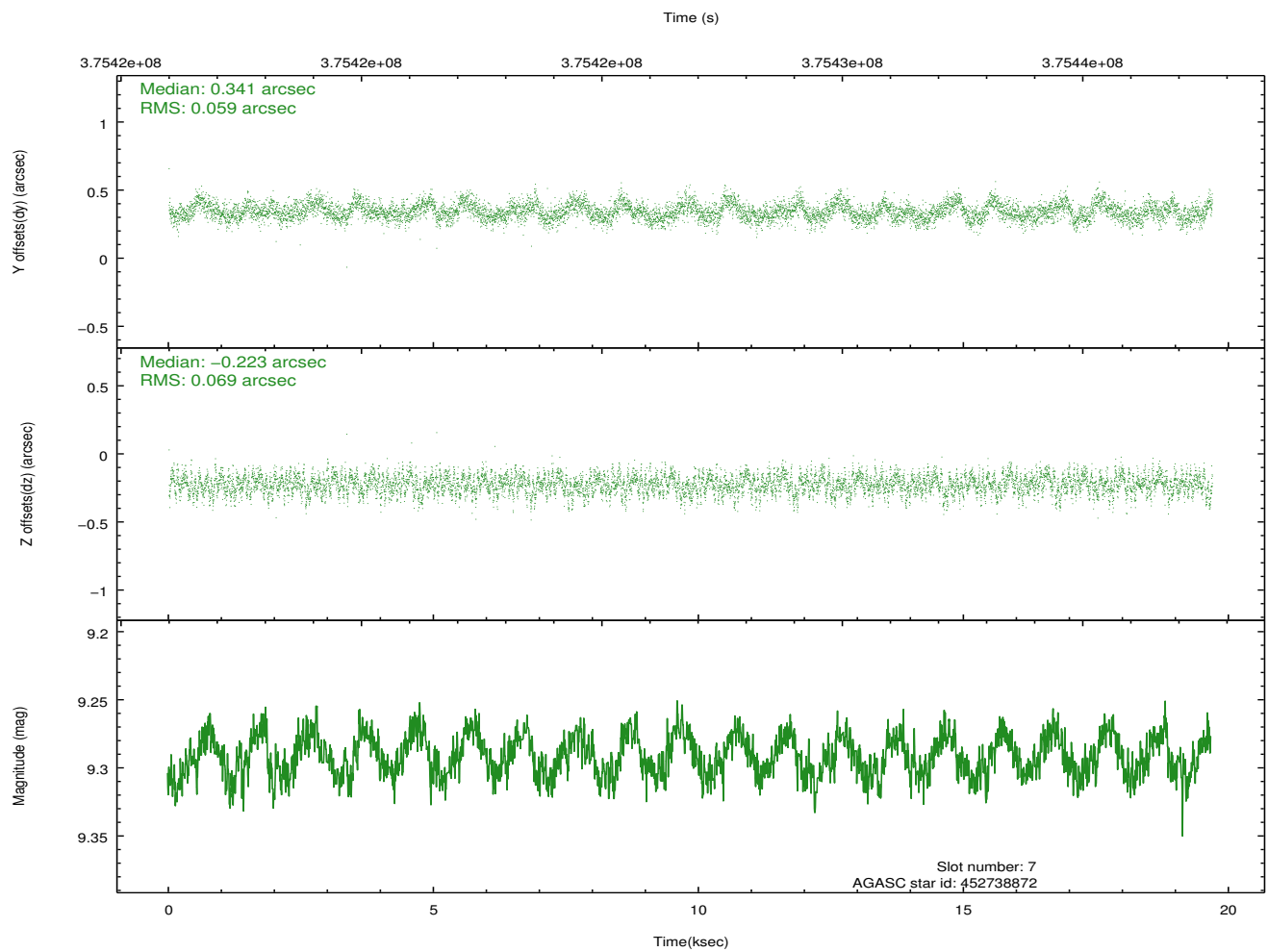
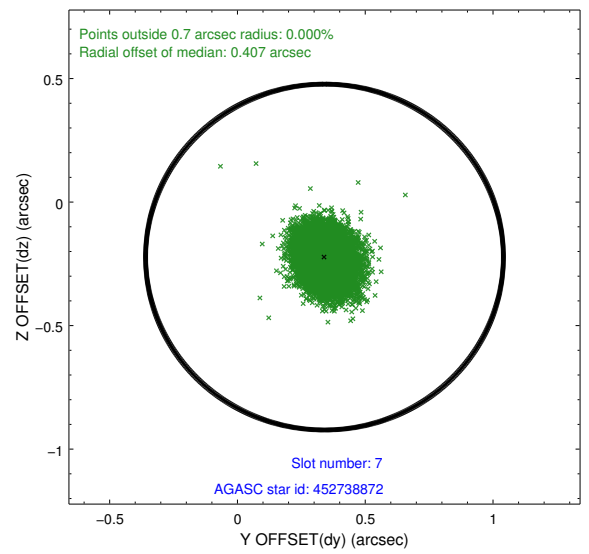
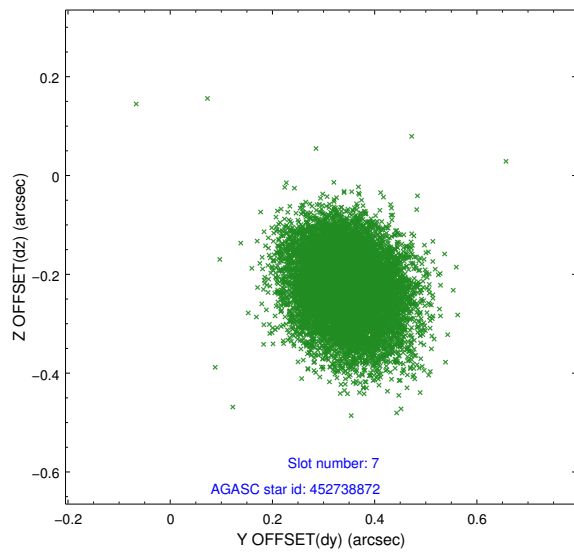
2.4.4 Slot 6



Time (s)

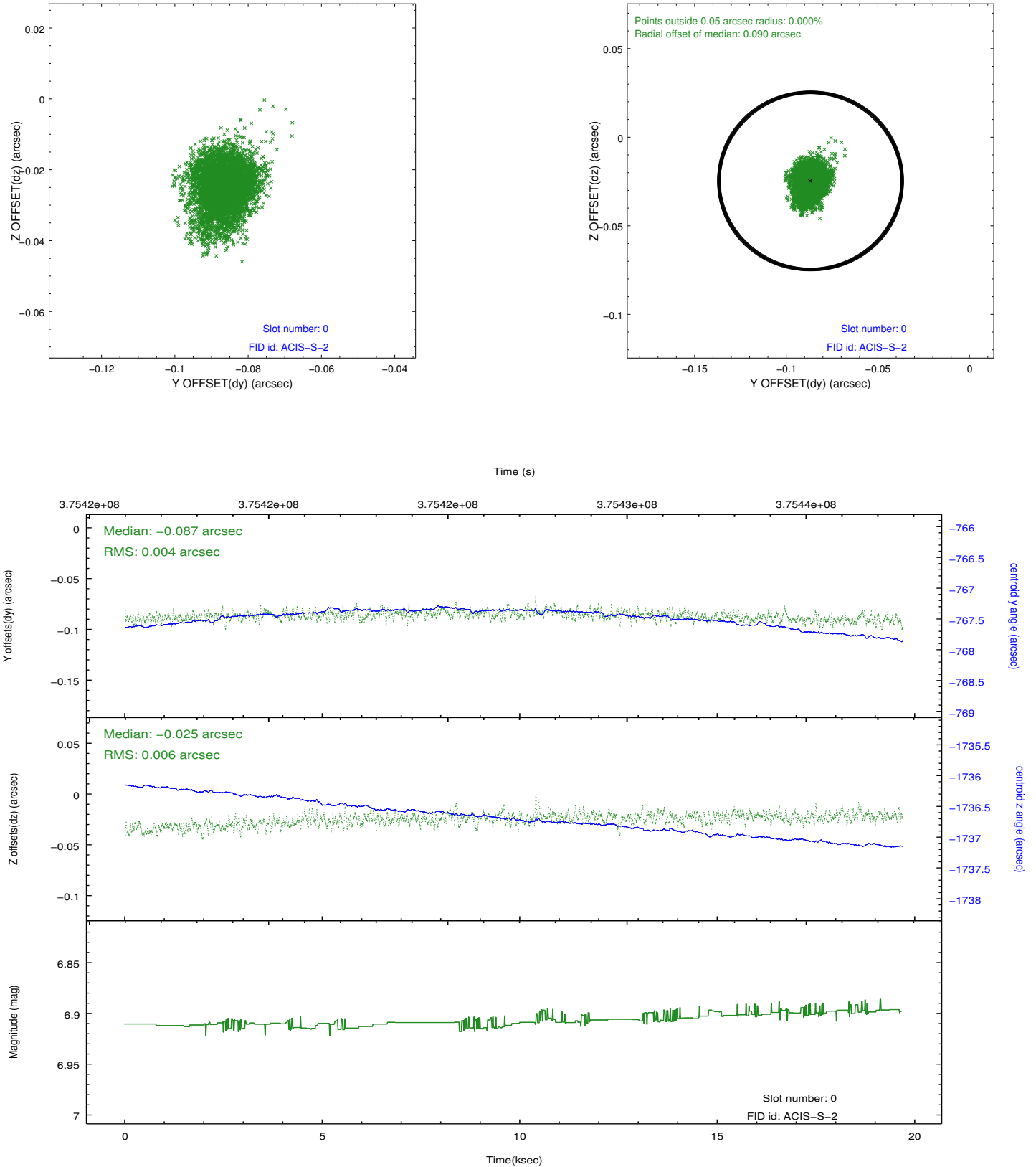


2.4.5 Slot 7

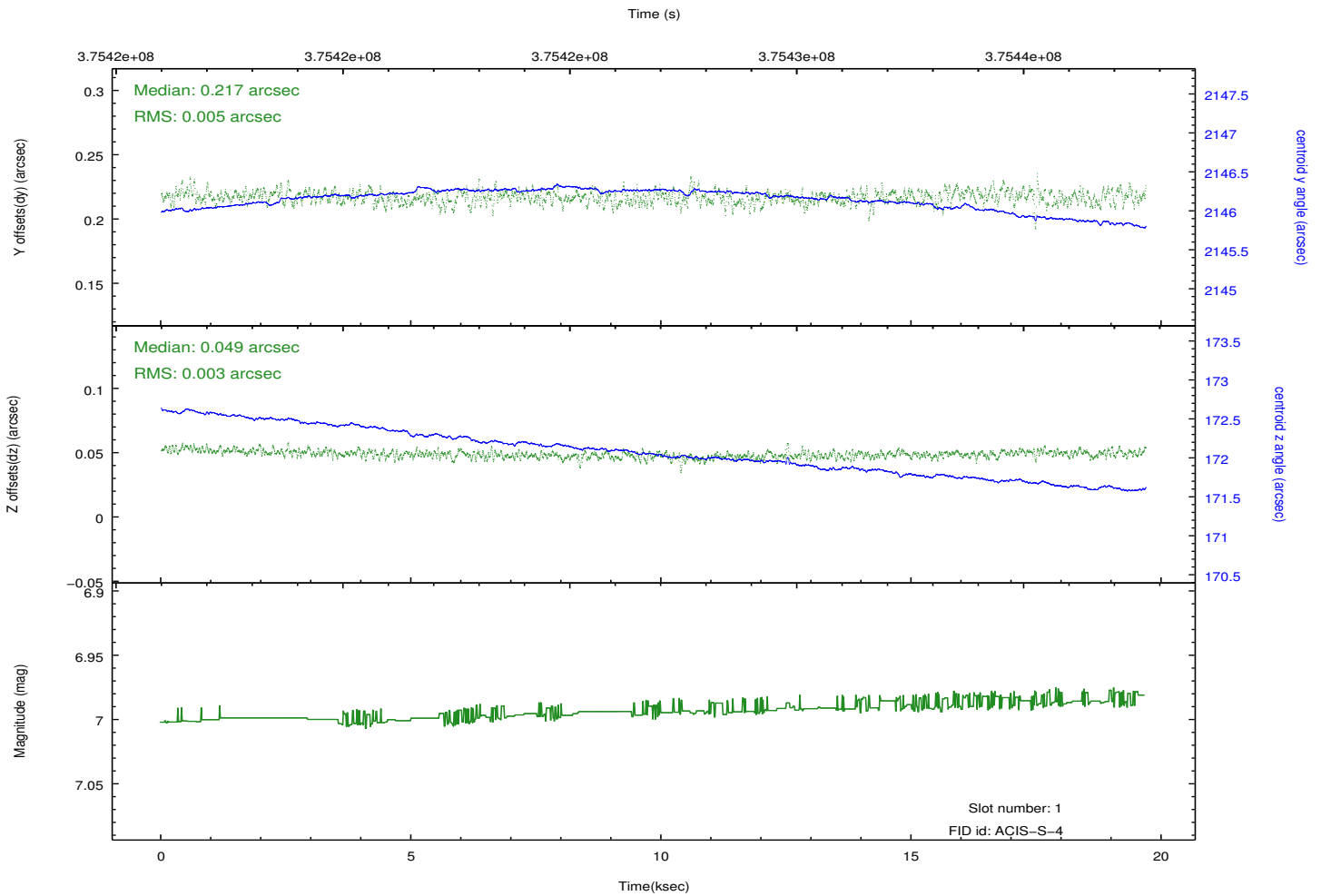
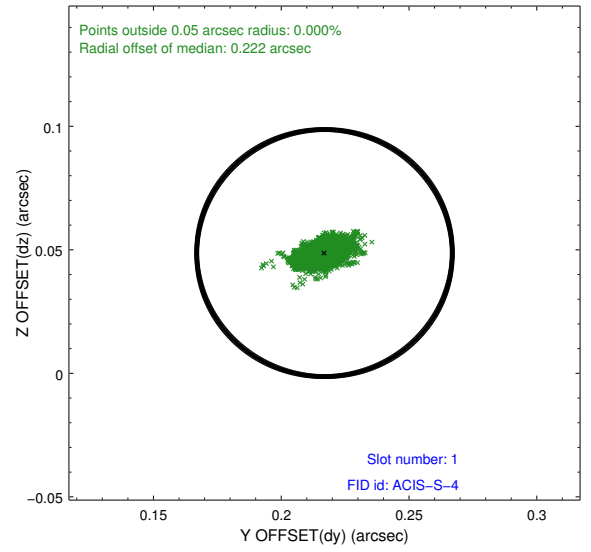
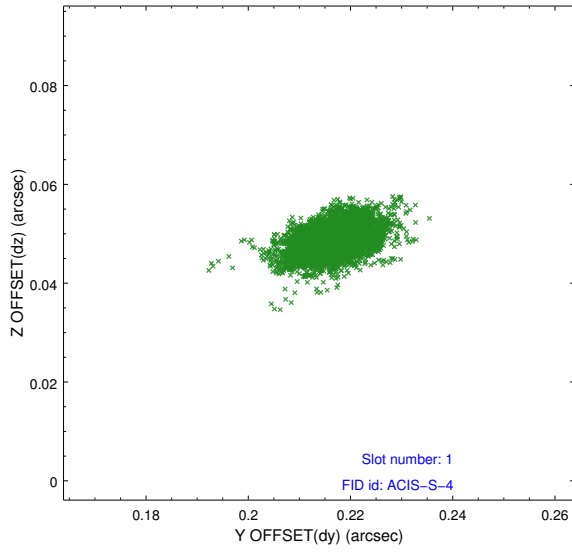


2.5 FID Slots

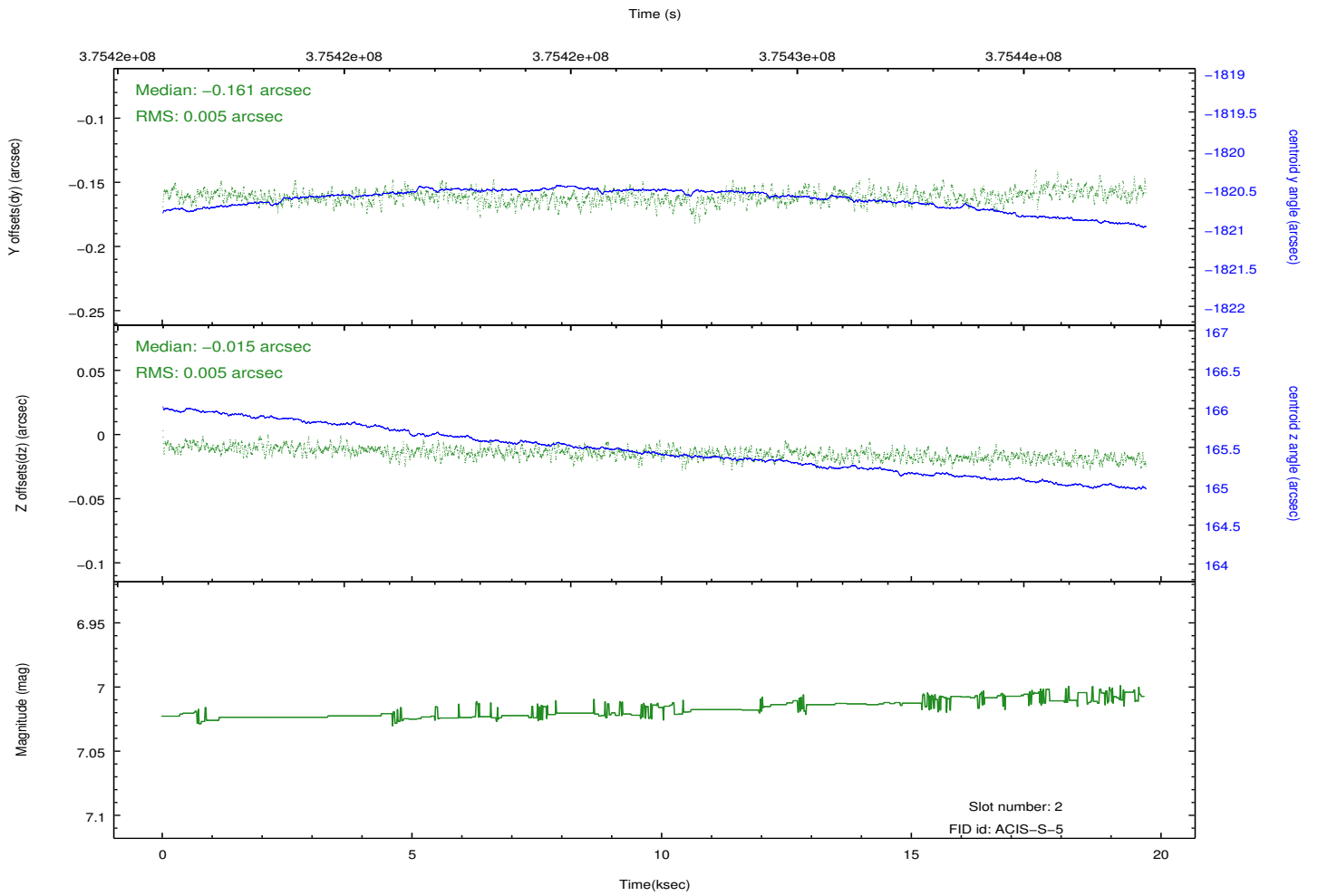
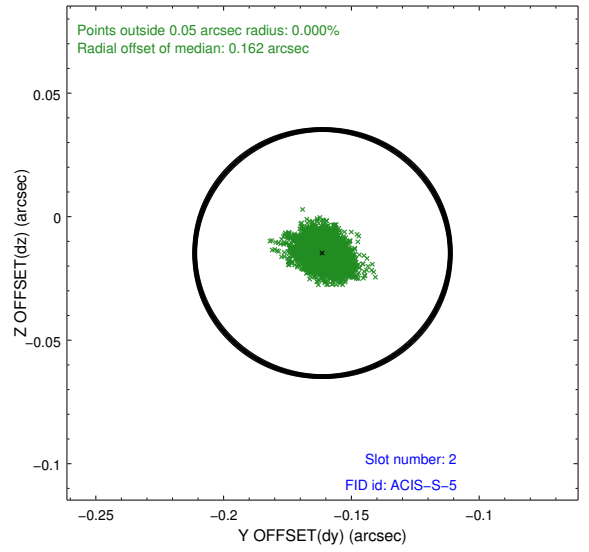
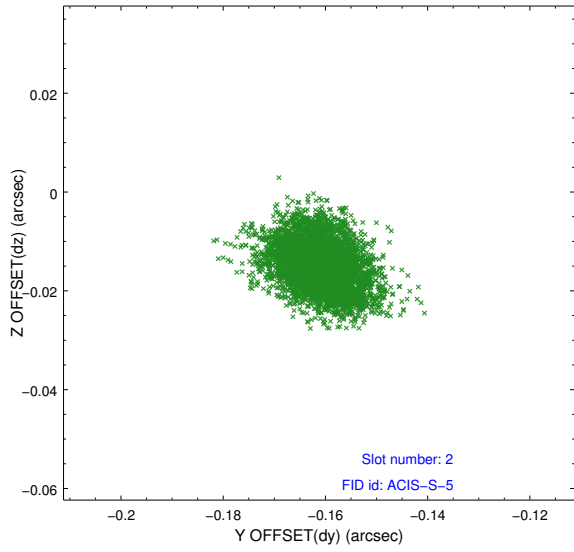
2.5.1 Slot 0



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)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.54079993099

A.2 Comments