

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17096 - L2 Version 1
Chandra X-Ray Center

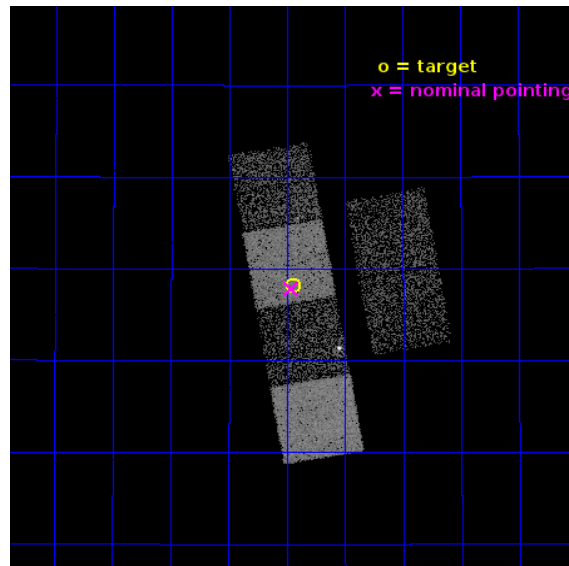
L2 Processing Date : Jun 13 2015

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1 Front

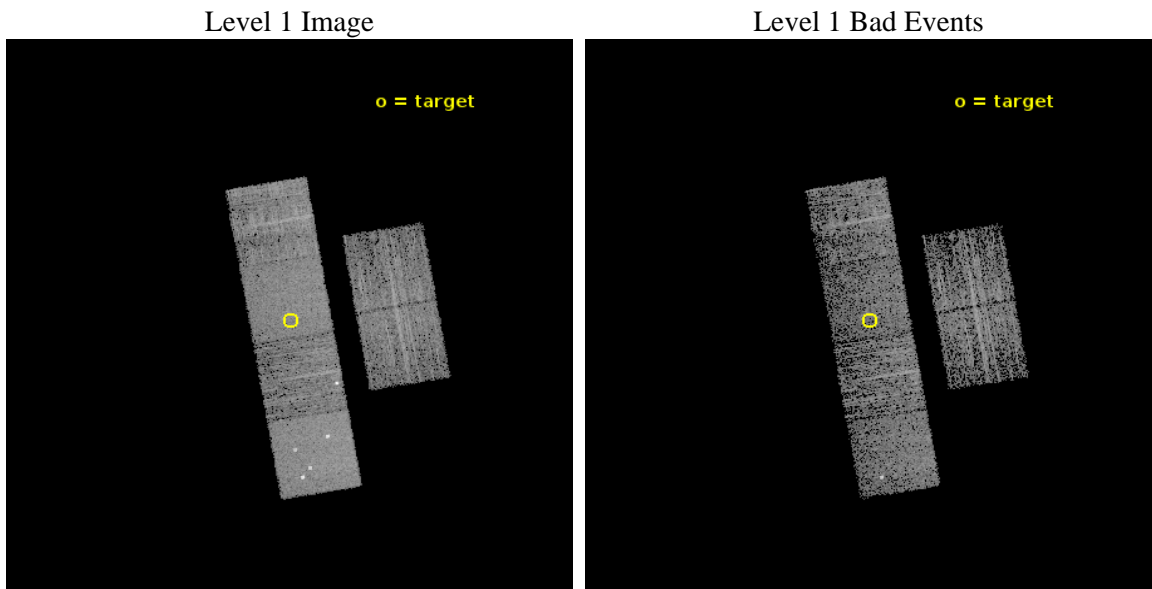
seq_num	703100	Sequence number
obs_id	17096	Observation id
title	Probing the Physics of Quasar Outflows using Mini-LoBALs	Proposal
observer	Professor Karen Leighly	Principal investigator
object	TON 1189	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.362083	Observer's specified target RA [deg]
dec_targ	35.968611	Observer's specified target Dec [deg]
ra_nom	153.36538459338	Nominal RA [deg]
dec_nom	35.963885523016	Nominal Dec [deg]
roll_nom	260.15726581721	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4537.6000676155	Sum of GTIs [s]
livetime	4480.1422433446	Livetime [s]
ontime2	4534.3590973616	Sum of GTIs [s]
ontime3	4537.6000676155	Sum of GTIs [s]
ontime5	4537.6000676155	Sum of GTIs [s]
ontime6	4534.3590971231	Sum of GTIs [s]
ontime7	4537.6000676155	Sum of GTIs [s]
ontime8	4537.6000676155	Sum of GTIs [s]
l2events	42333	Number of level 2 events



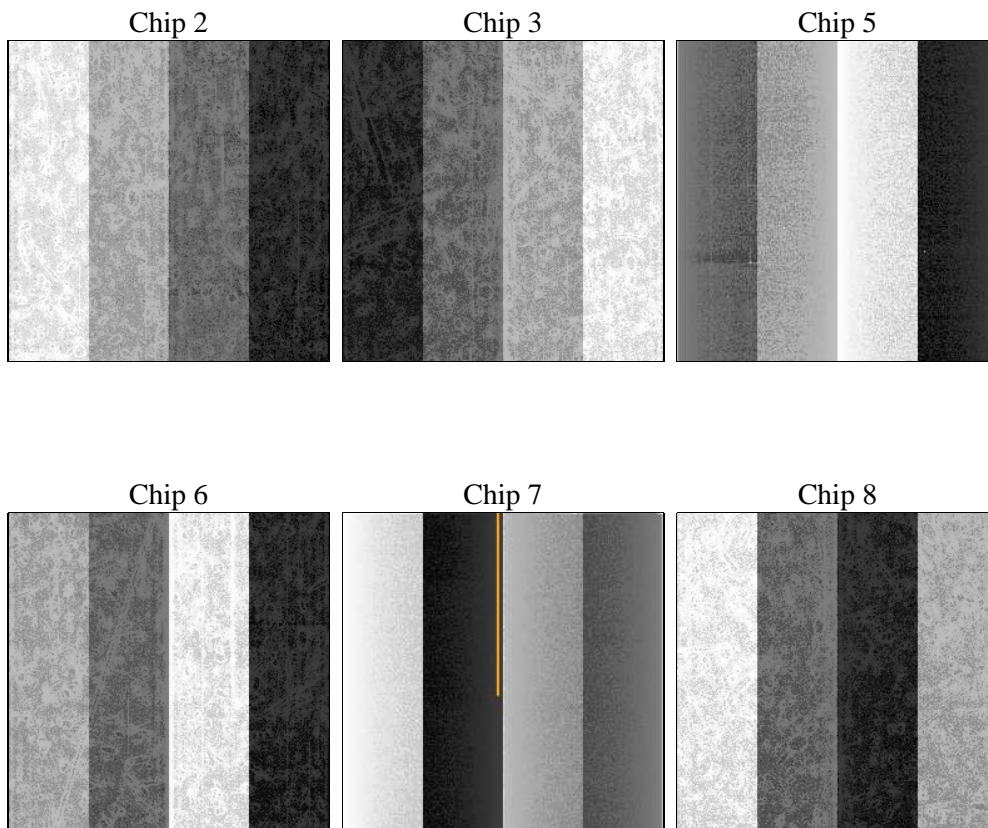
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4600.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	4537.6000676155	Sum of GTIs [s]
caldbver	4.6.7	 	ontime2	4534.3590973616	Sum of GTIs [s]
date	2015-06-13T14:19:51	Date and time of file creation	ontime3	4537.6000676155	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	4537.6000676155	Sum of GTIs [s]
			ontime6	4534.3590971231	Sum of GTIs [s]
			ontime7	4537.6000676155	Sum of GTIs [s]
			ontime8	4537.6000676155	Sum of GTIs [s]
			l1events	176336	Number of level 1 events

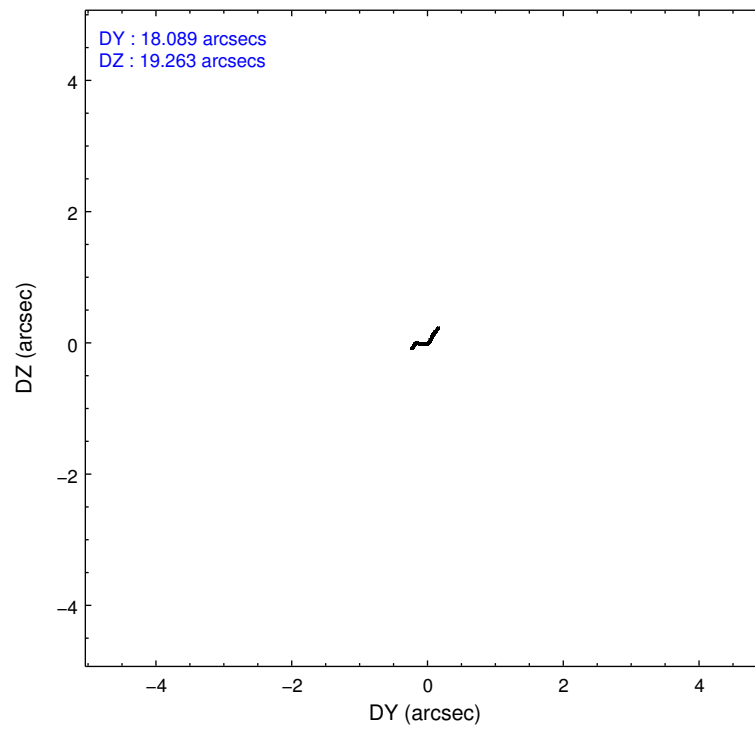
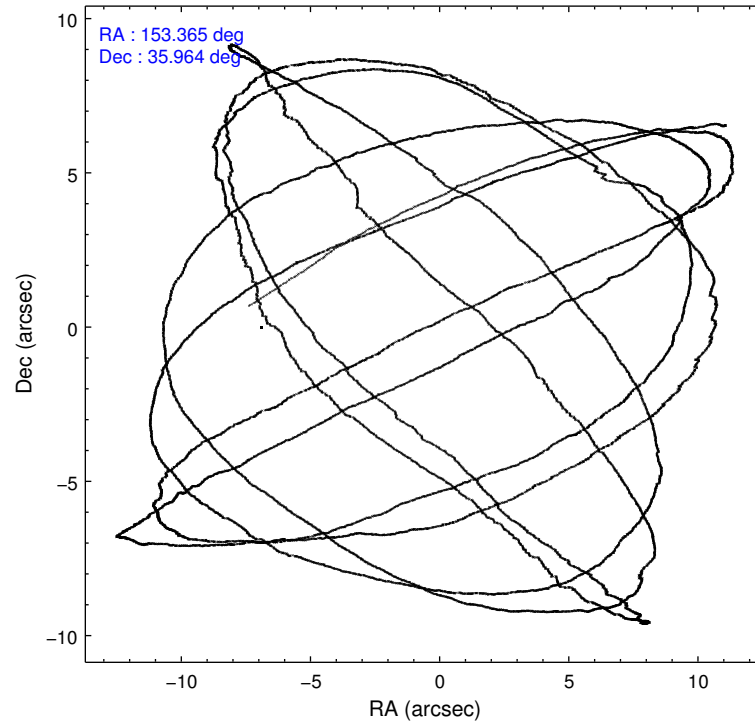
2.1.4 Events

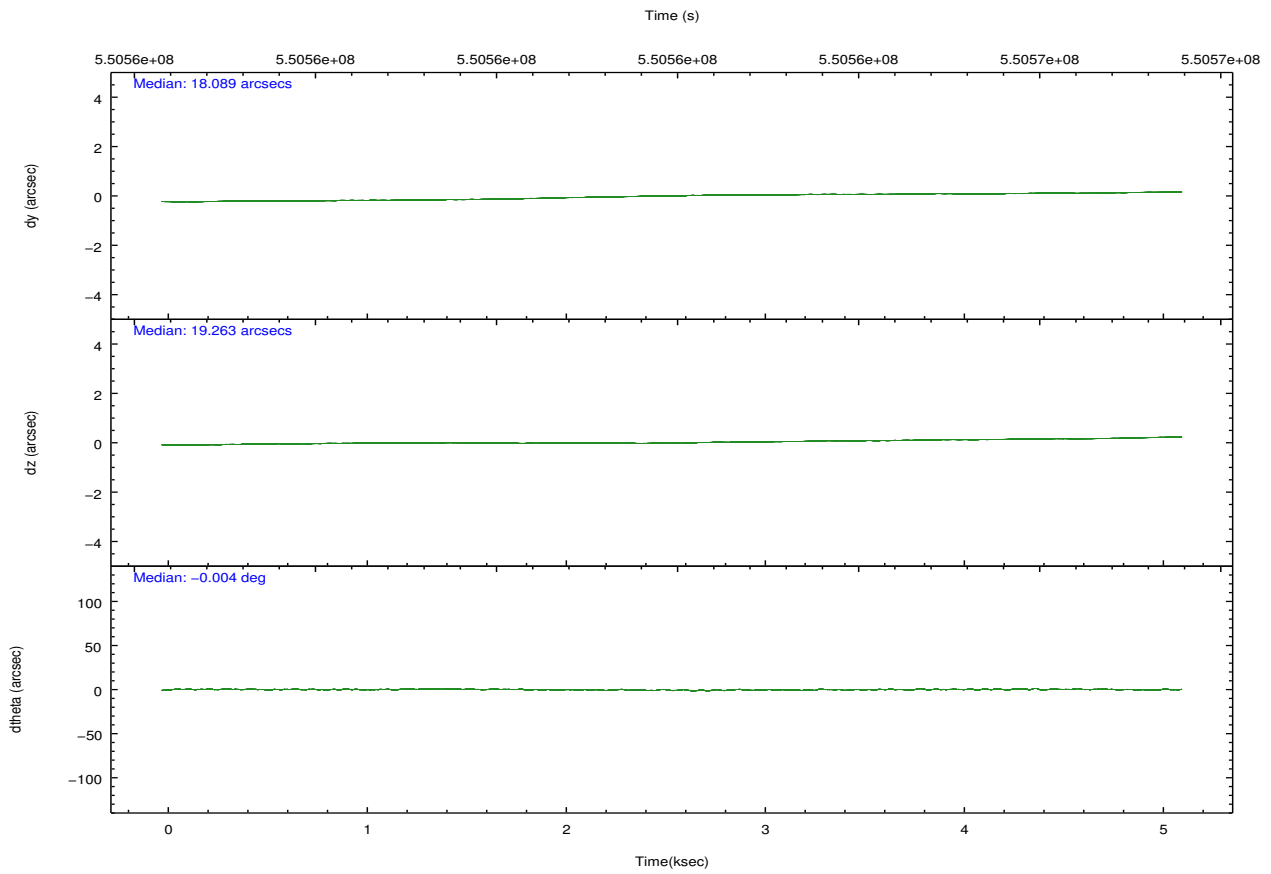
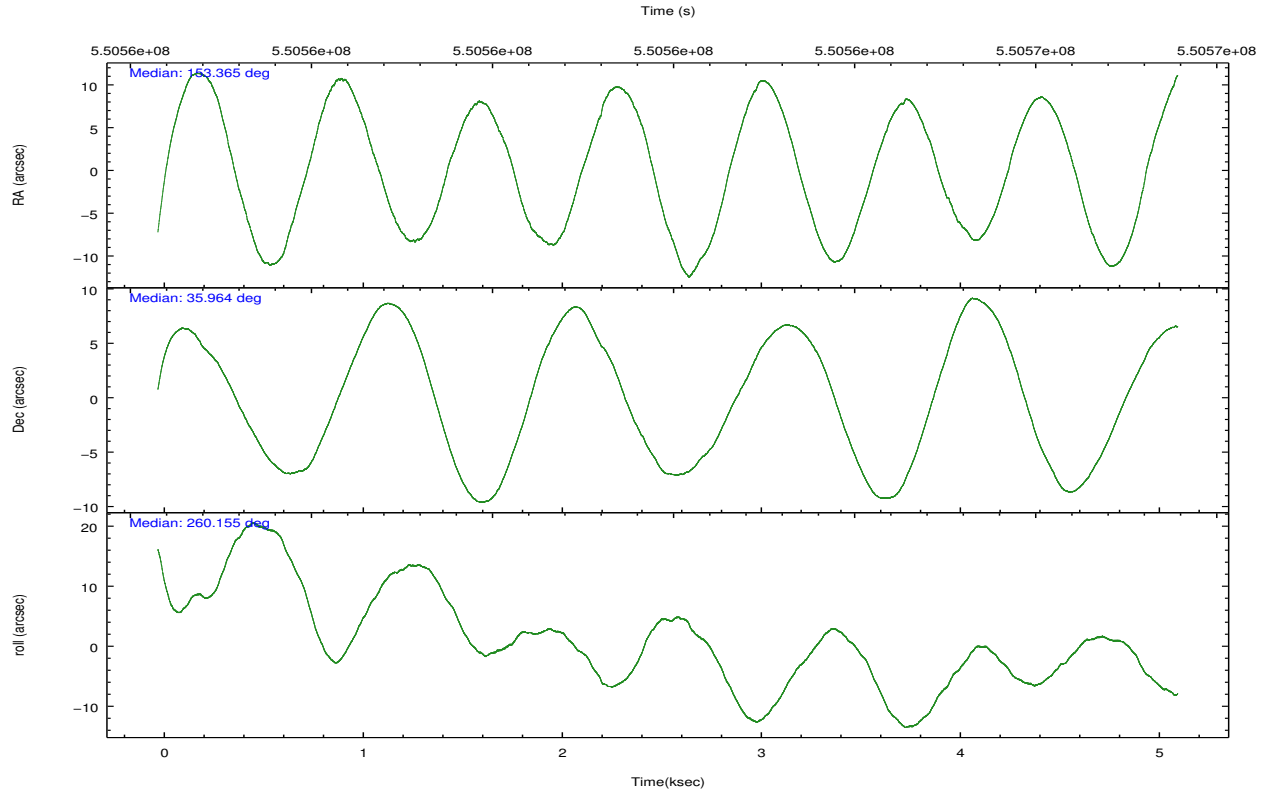
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23408	22249	42144	25706	31325	31504	grade 0 events	847	946	4048	2376	1215	2903
rejected events	20764	19754	20699	21152	17568	22013		3%	4%	9%	9%	3%	9%
rejected %	88%	88%	49%	82%	56%	69%	grade 1 events	14	11	96	22	48	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	712	552	6177	843	2878	2171
								3%	2%	14%	3%	9%	6%
							grade 3 events	286	240	659	344	1152	1008
								1%	1%	1%	1%	3%	3%
							grade 4 events	264	267	652	301	1203	939
								1%	1%	1%	1%	3%	2%
							grade 5 events	1067	1203	3156	1222	3232	1726
								4%	5%	7%	4%	10%	5%
							grade 6 events	538	495	9946	699	7326	2488
								2%	2%	23%	2%	23%	7%
							grade 7 events	19680	18535	17410	19899	14271	20241
								84%	83%	41%	77%	45%	64%

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	153.353255	153.3653845933763	CCD I2 on	O1	Y
[deg] Pointing Dec	35.989502	35.96388552301561	CCD I3 on	O2	Y
[deg] Pointing Roll	260.007778	260.1572658172078	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	550561900.184000	550560768.8163199	CCD S5 on	N	N
Observation start date	2015-06-13T05:50:33	2015-06-13T05:32:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	550566500.184000	550567872.5792201	On-chip summing requested	N	N
Observation end date	2015-06-13T07:07:13	2015-06-13T07:31:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





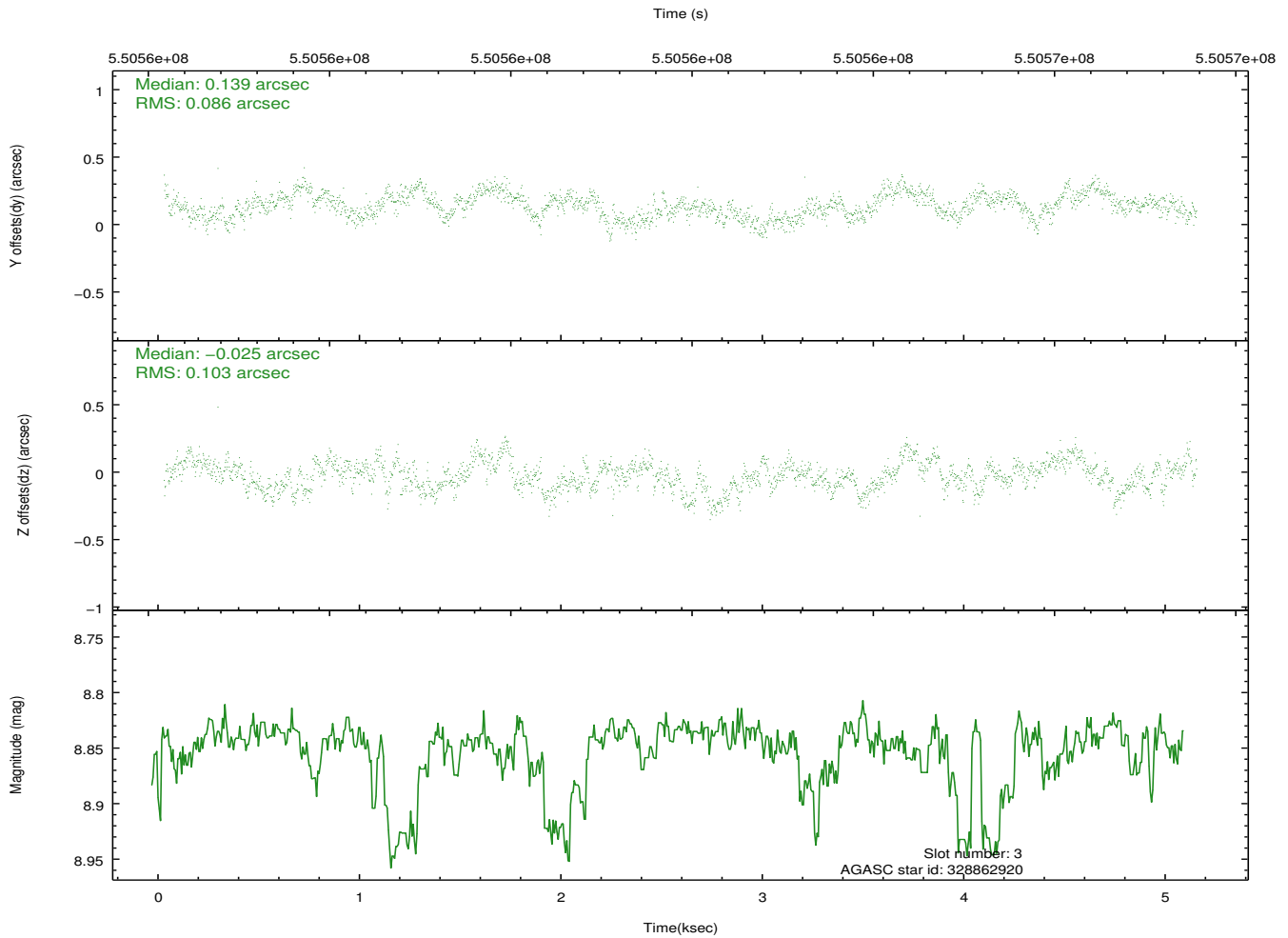
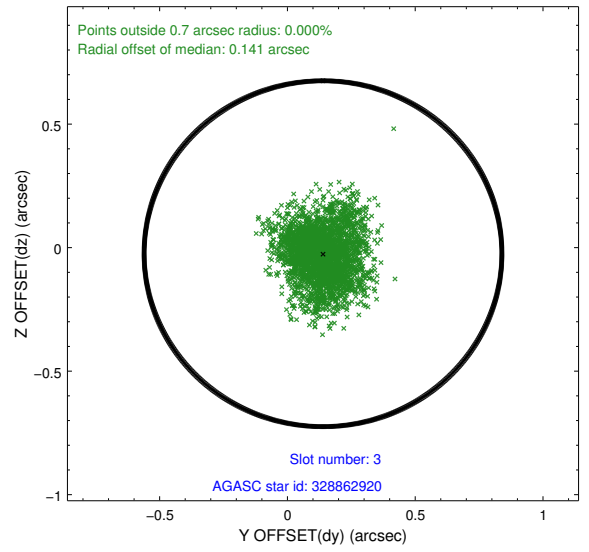
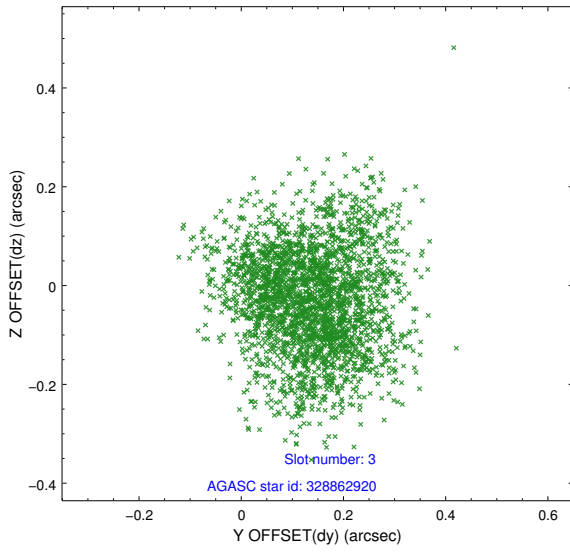
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	1250	-0.116	-0.064	0.007	0.011	0.000000	0.000000	-771.21	-1740.87
1	FID		ACIS-S-4	7.05	1250	0.327	0.074	0.006	0.013	0.000000	0.000000	2141.95	166.54
2	FID		ACIS-S-5	7.07	1251	-0.242	-0.000	0.006	0.011	0.000000	0.000000	-1822.68	161.46
3	GUIDE	used	328862920	8.85	2501	0.139	-0.025	0.144	0.230	152.514760	35.809766	1052.58	-2300.08
4	GUIDE	used	329784424	8.99	2499	0.022	0.048	0.122	0.200	153.400138	36.332751	-1238.92	-81.46
5	GUIDE	used	329785416	8.39	2501	0.007	0.160	0.095	0.149	153.137092	36.674370	-2319.89	-1042.35
6	GUIDE	used	329783632	9.63	2500	0.008	0.036	0.152	0.256	153.612767	35.905224	166.24	797.62
7	GUIDE	used	329784368	9.38	2498	-0.167	-0.219	0.191	0.290	153.667798	35.900288	156.47	959.05

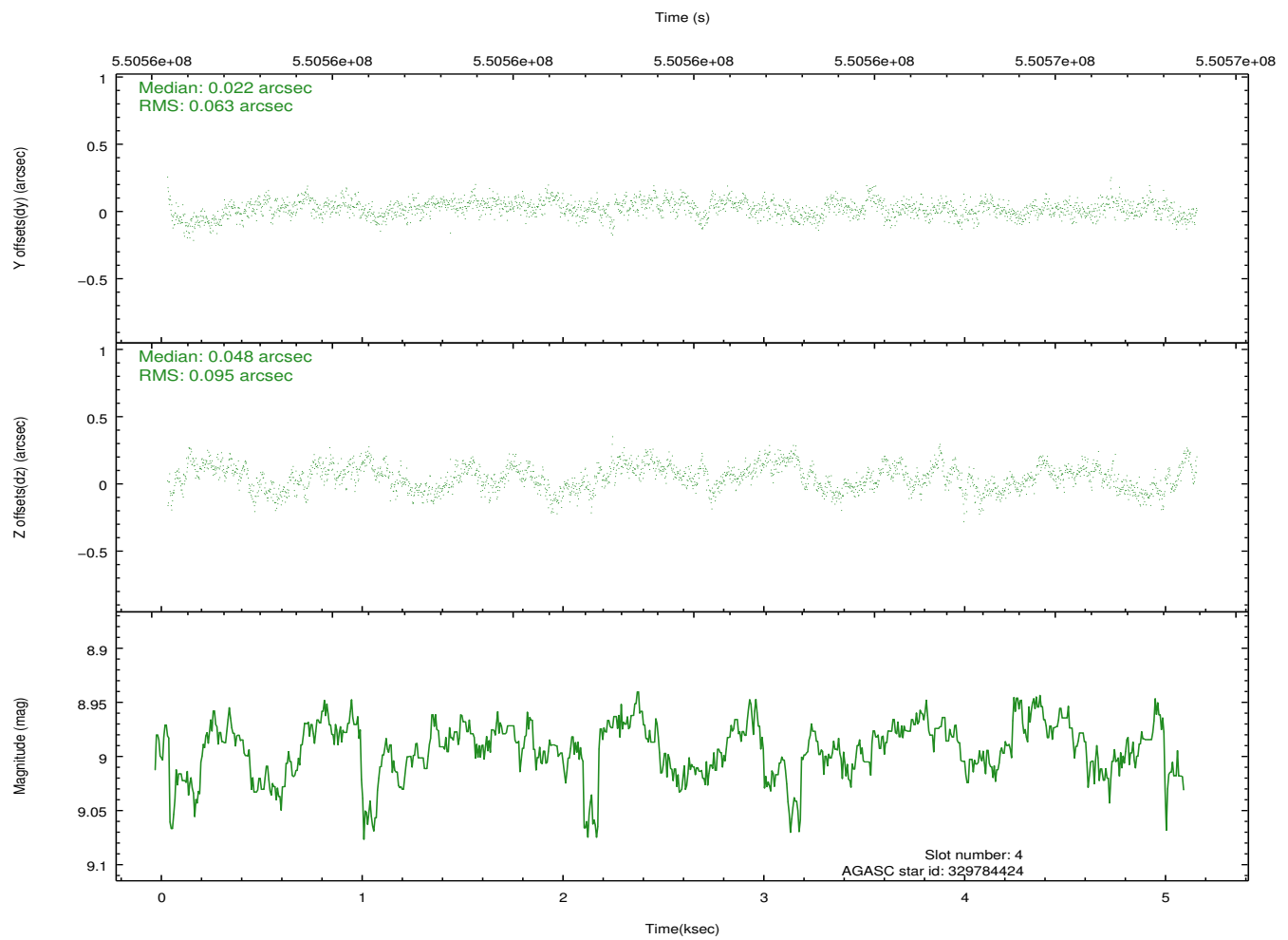
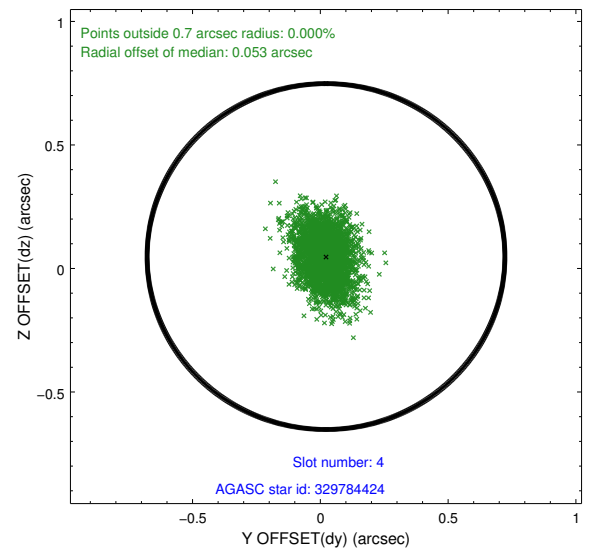
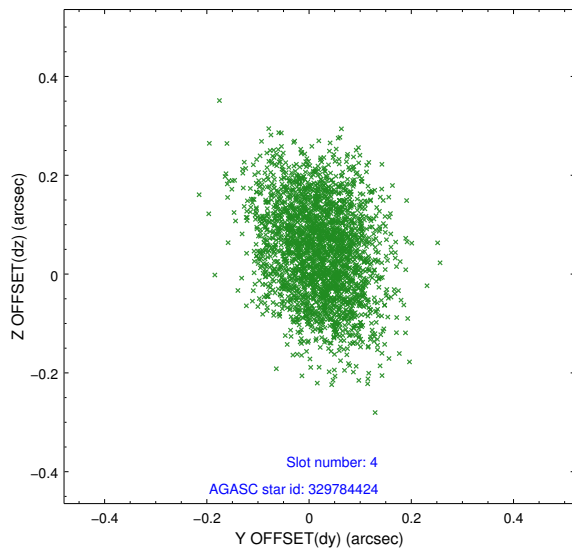
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2.4 Star Slots

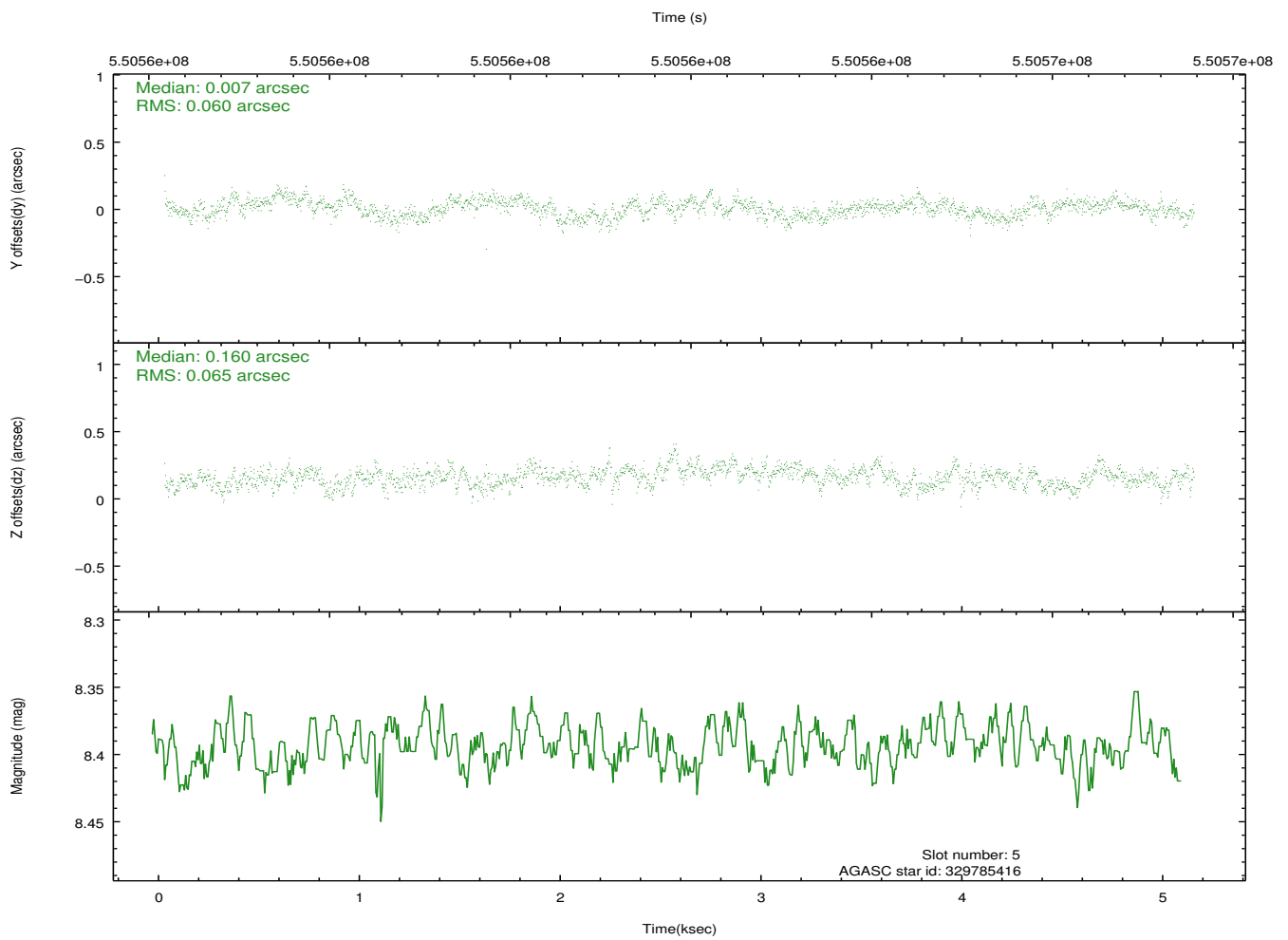
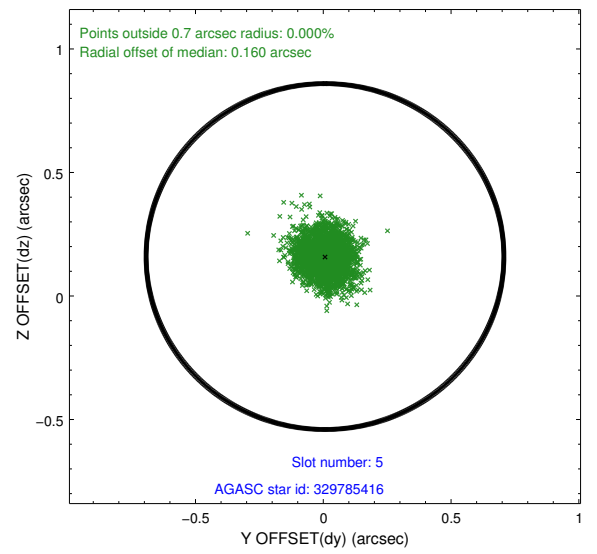
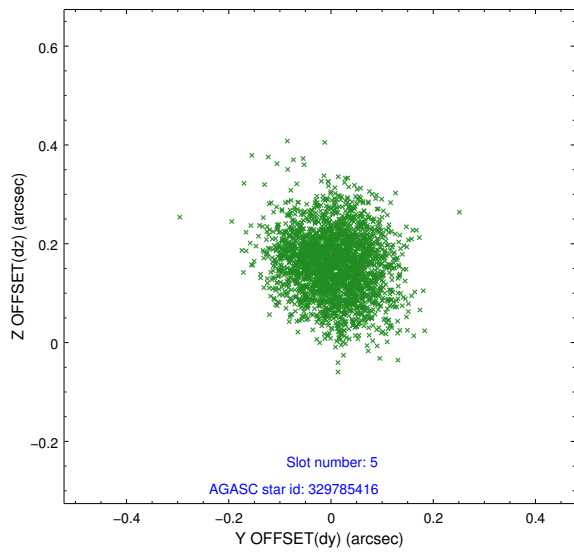
2.4.1 Slot 3



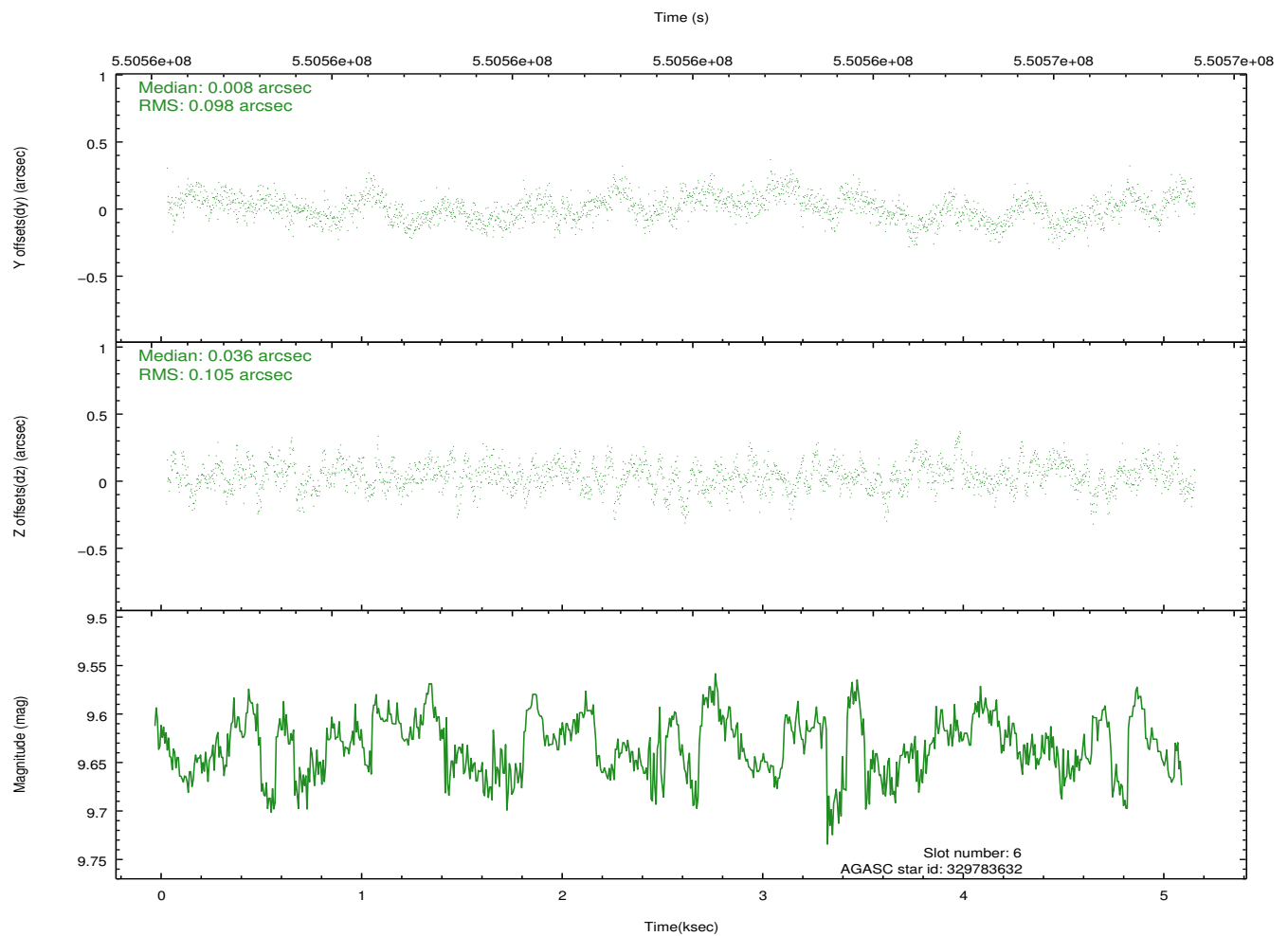
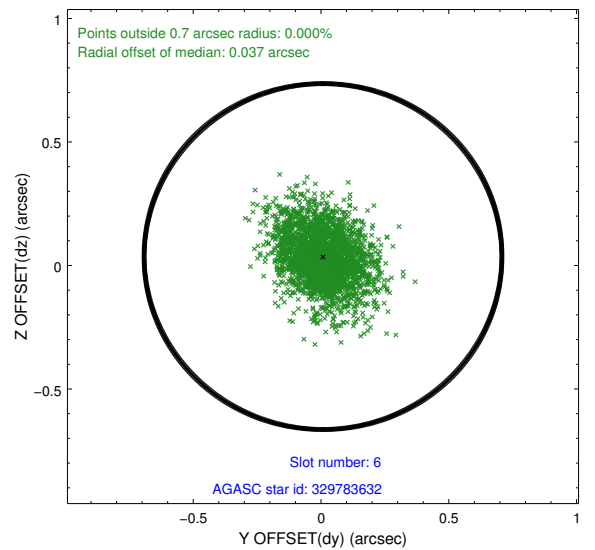
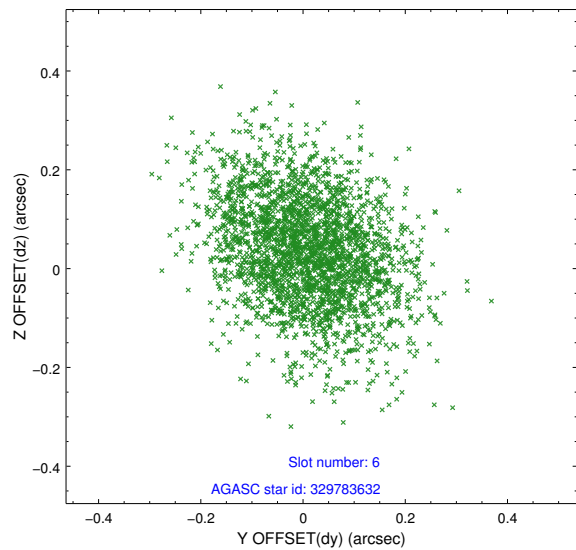
2.4.2 Slot 4



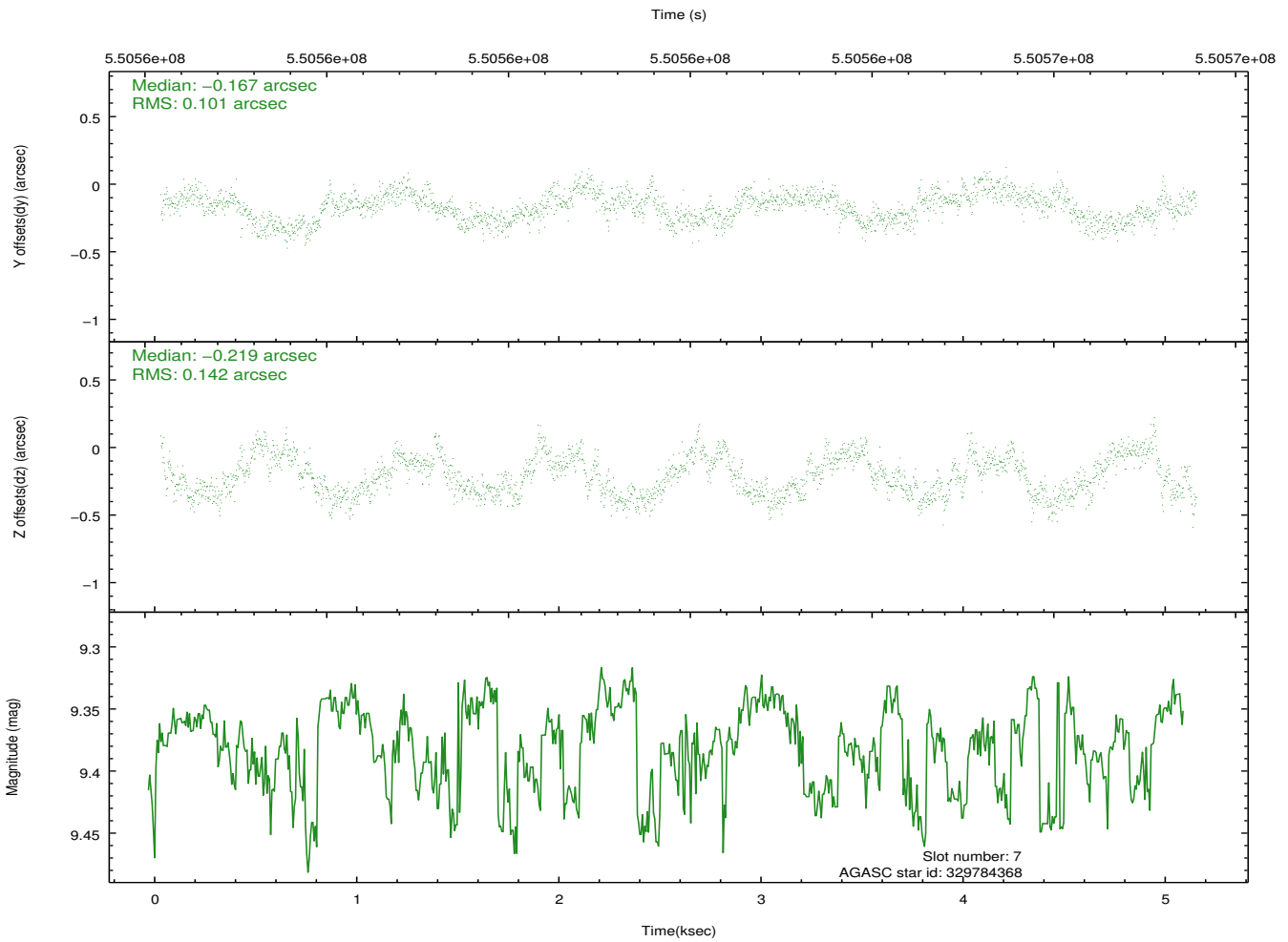
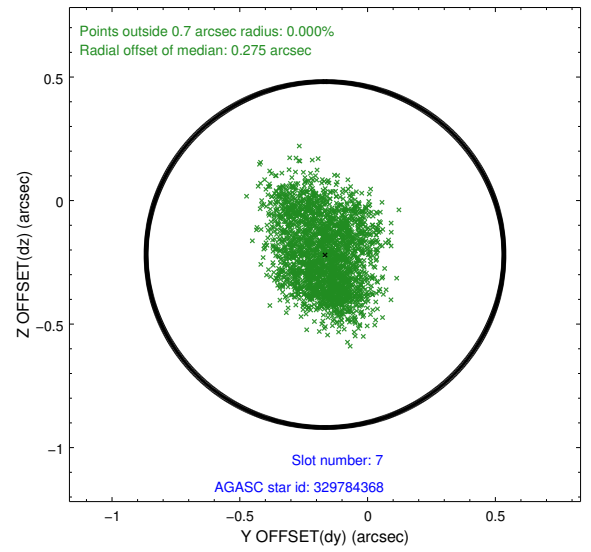
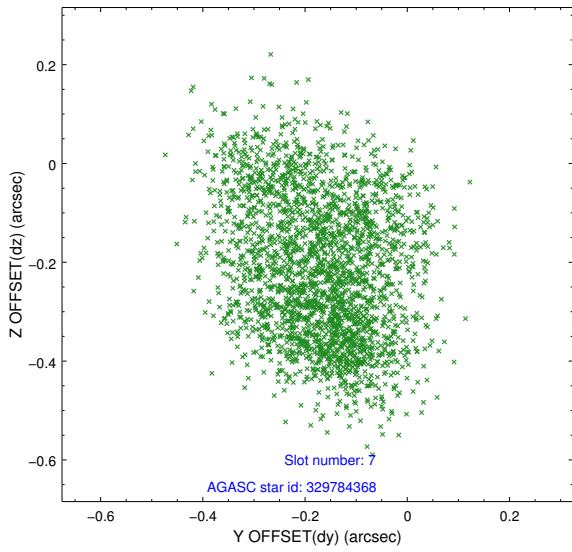
2.4.3 Slot 5



2.4.4 Slot 6

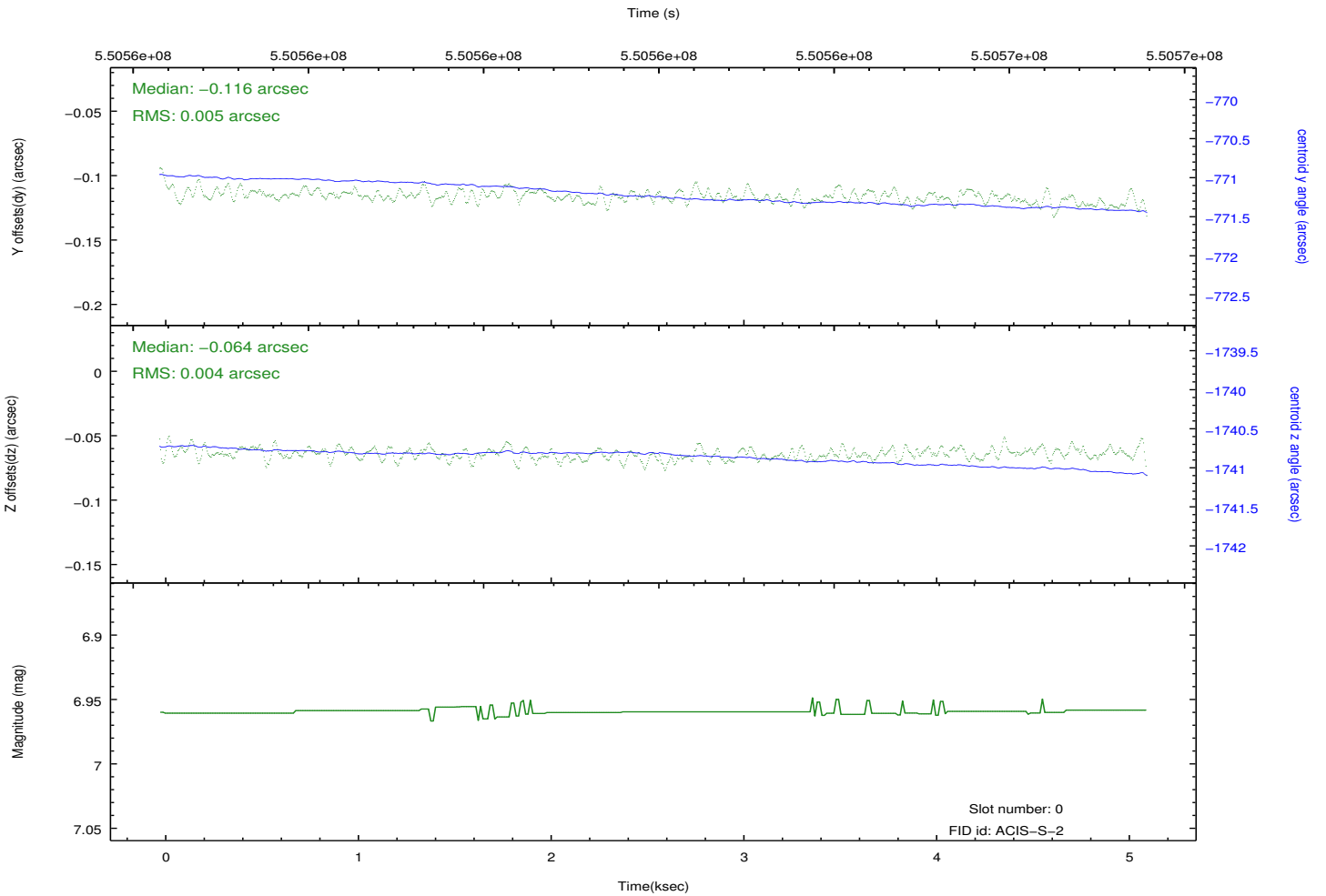
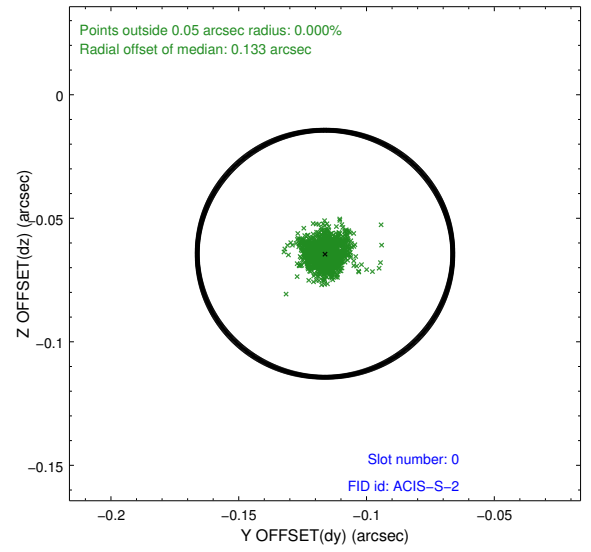
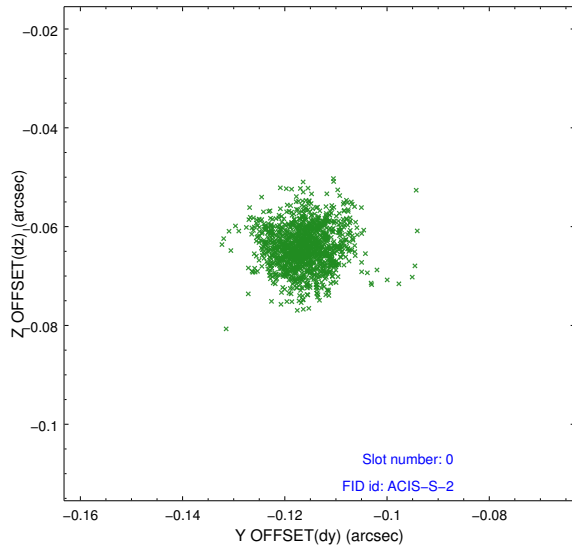


2.4.5 Slot 7

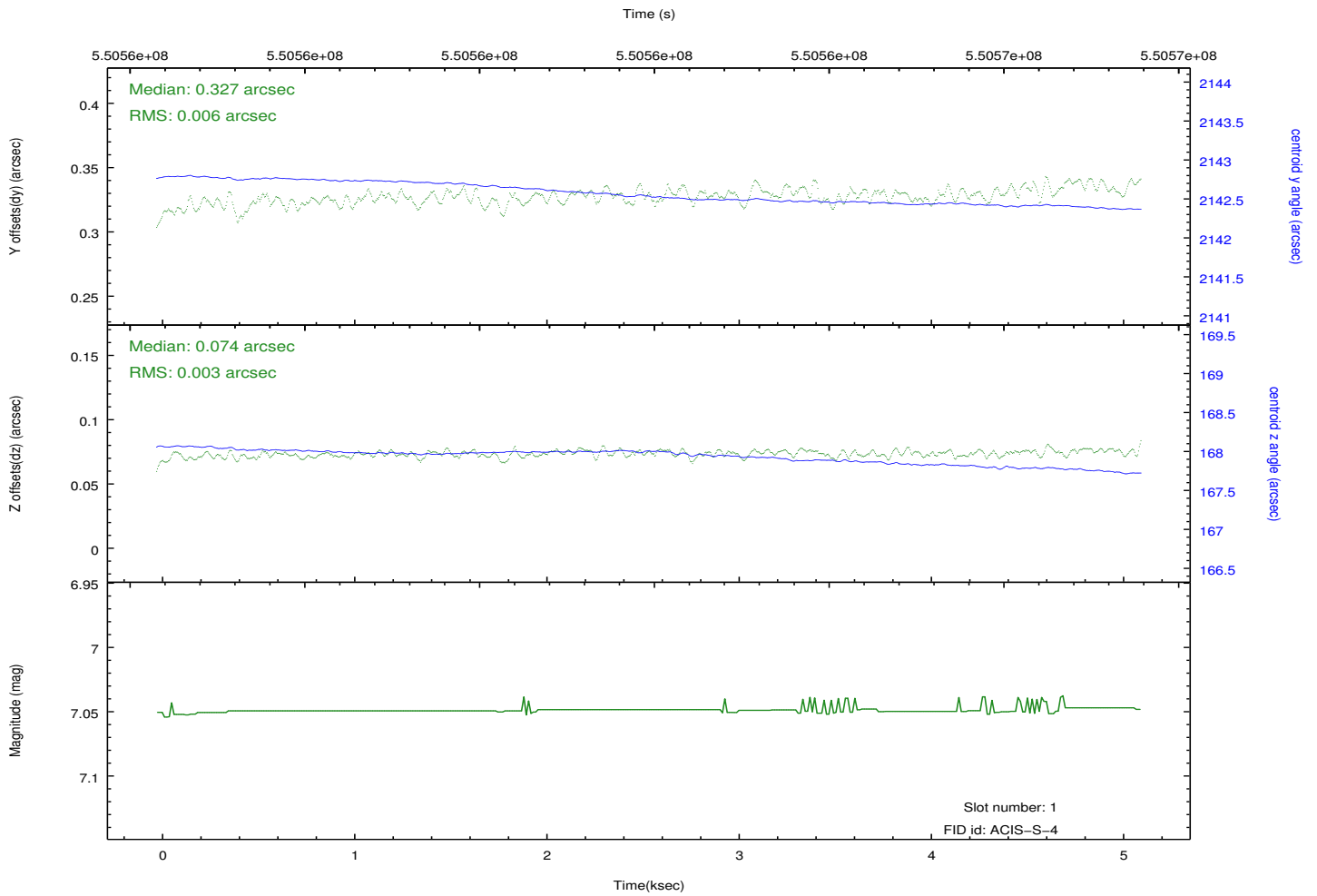
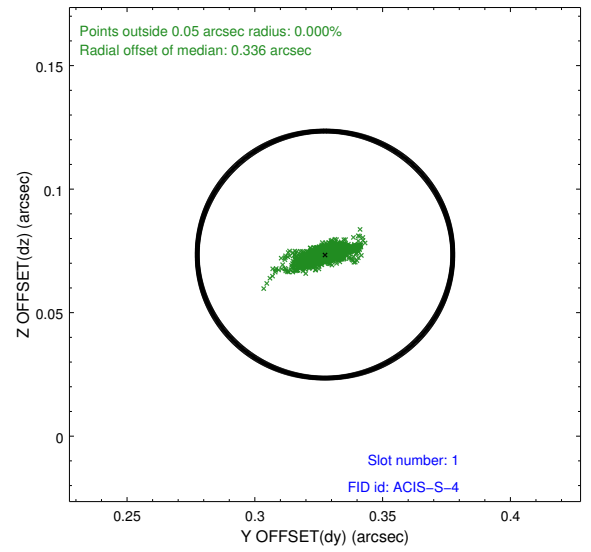
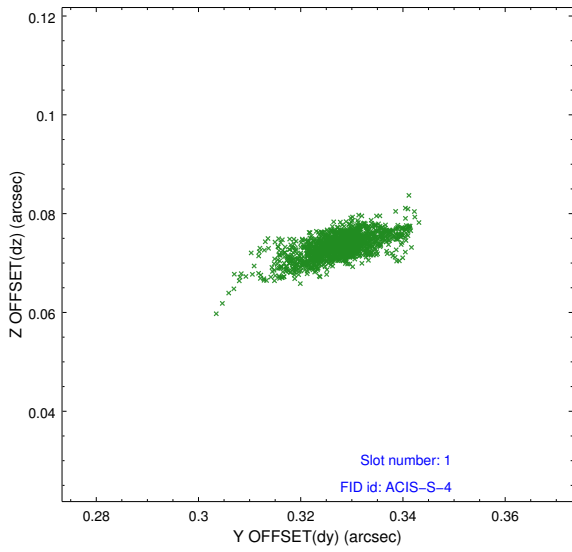


2.5 FID Slots

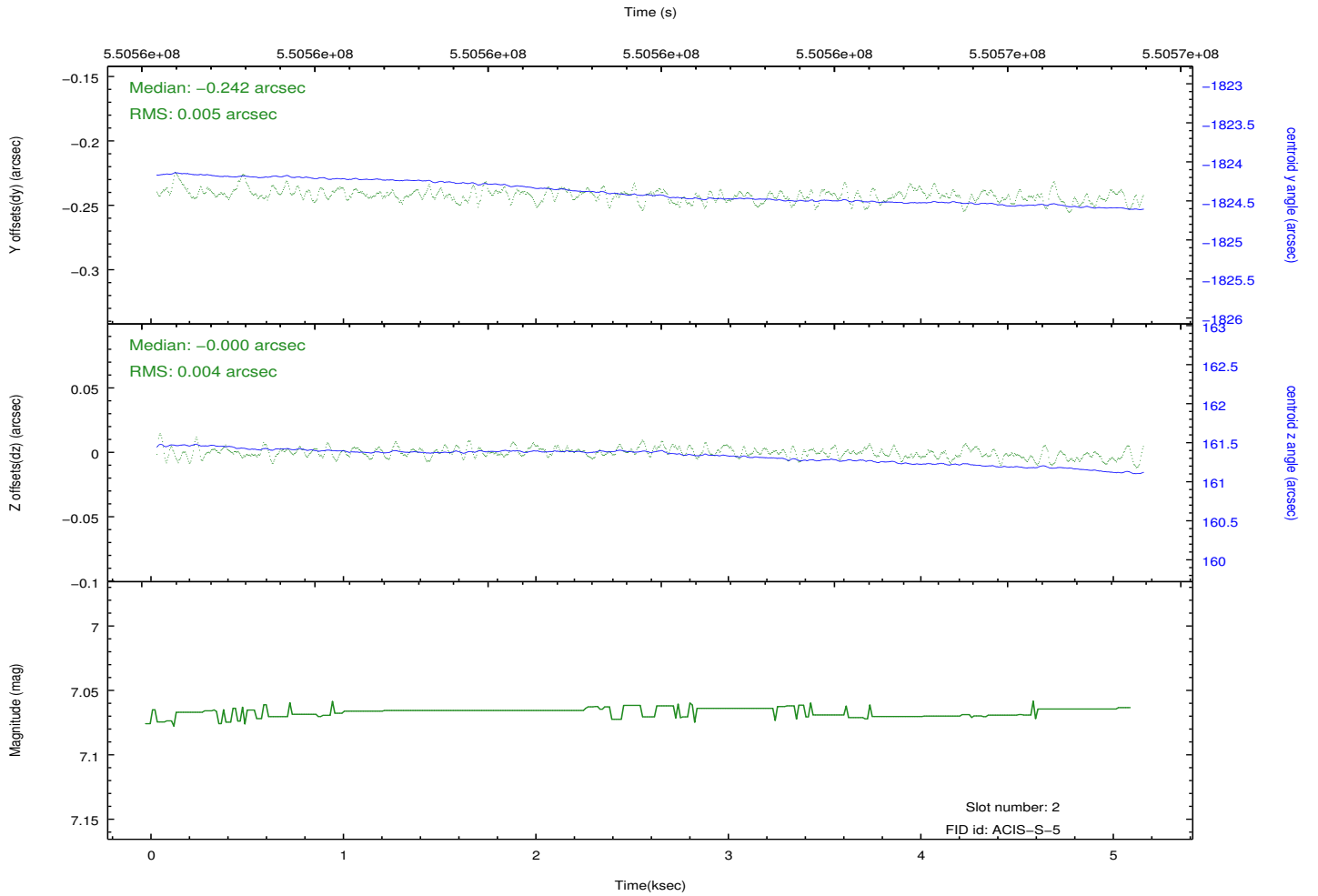
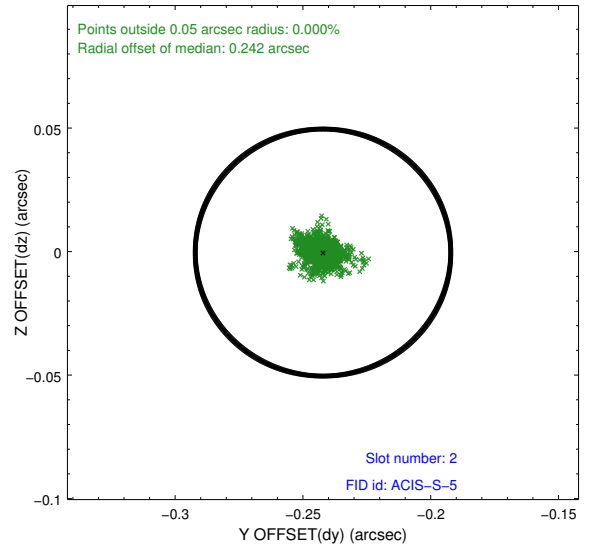
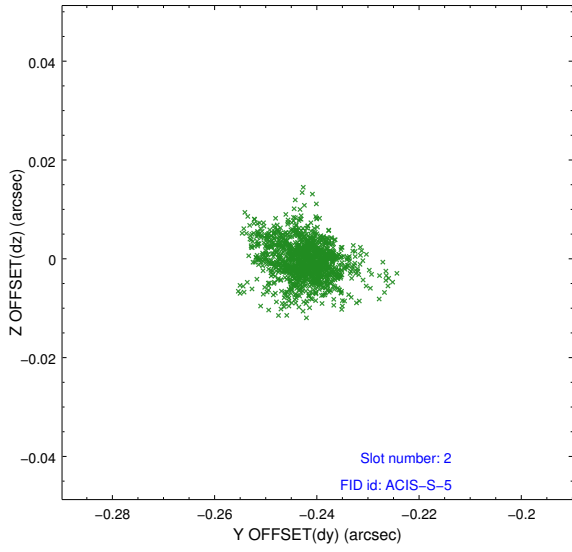
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.5376000676155

A.2 Comments