

V&V Reference Report

L2 ASCDS Version : 10

Observation 14909 - L2 Version 2
Chandra X-Ray Center

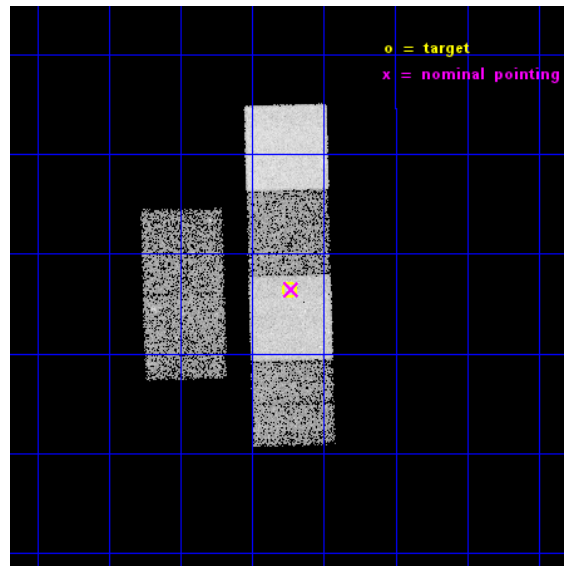
L2 Processing Date : Dec 6 2014

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1 Front

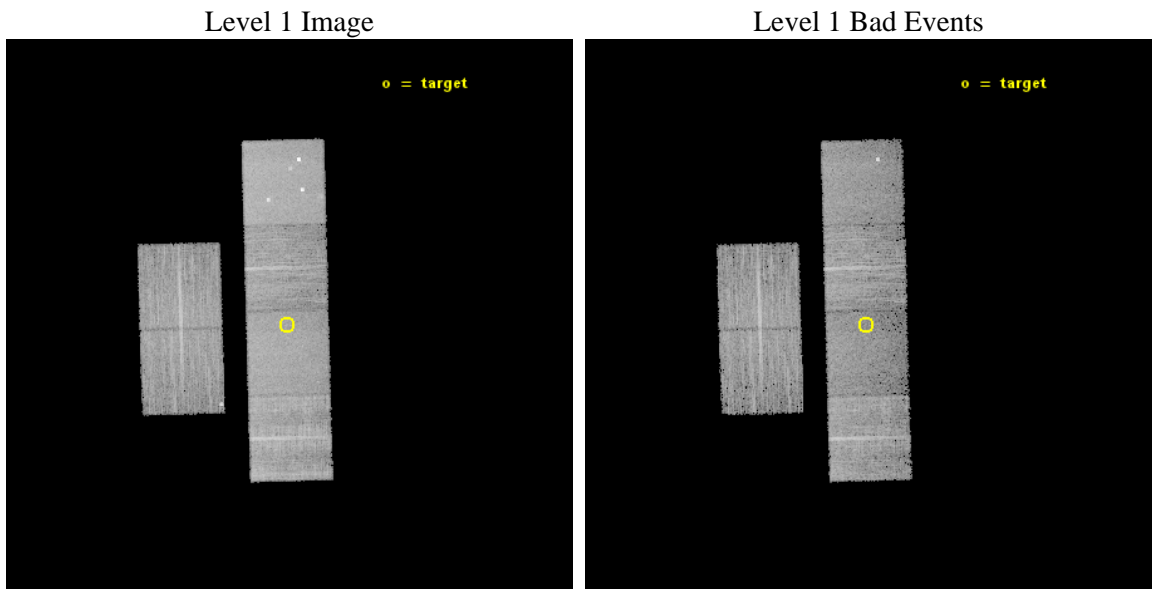
seq_num	601039	Sequence number
obs_id	14909	Observation id
title	The Origin of Elevated X-ray Emission in Strong Halpha Emitting Galaxies	Proposal title
observer	Dr. Ranga Ram Chary	Principal investigator
object	HAE 63	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.059167	Observer's specified target RA [deg]
dec_targ	2.439194	Observer's specified target Dec [deg]
ra_nom	131.05669722583	Nominal RA [deg]
dec_nom	2.4409086654994	Nominal Dec [deg]
roll_nom	88.394247733477	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14963.199944317	Sum of GTIs [s]
livetime	14773.726896865	Livetime [s]
ontime2	14963.199944317	Sum of GTIs [s]
ontime3	14963.199944317	Sum of GTIs [s]
ontime5	14963.199944317	Sum of GTIs [s]
ontime6	14963.199944317	Sum of GTIs [s]
ontime7	14963.199944317	Sum of GTIs [s]
ontime8	14959.958934069	Sum of GTIs [s]
l2events	111628	Number of level 2 events



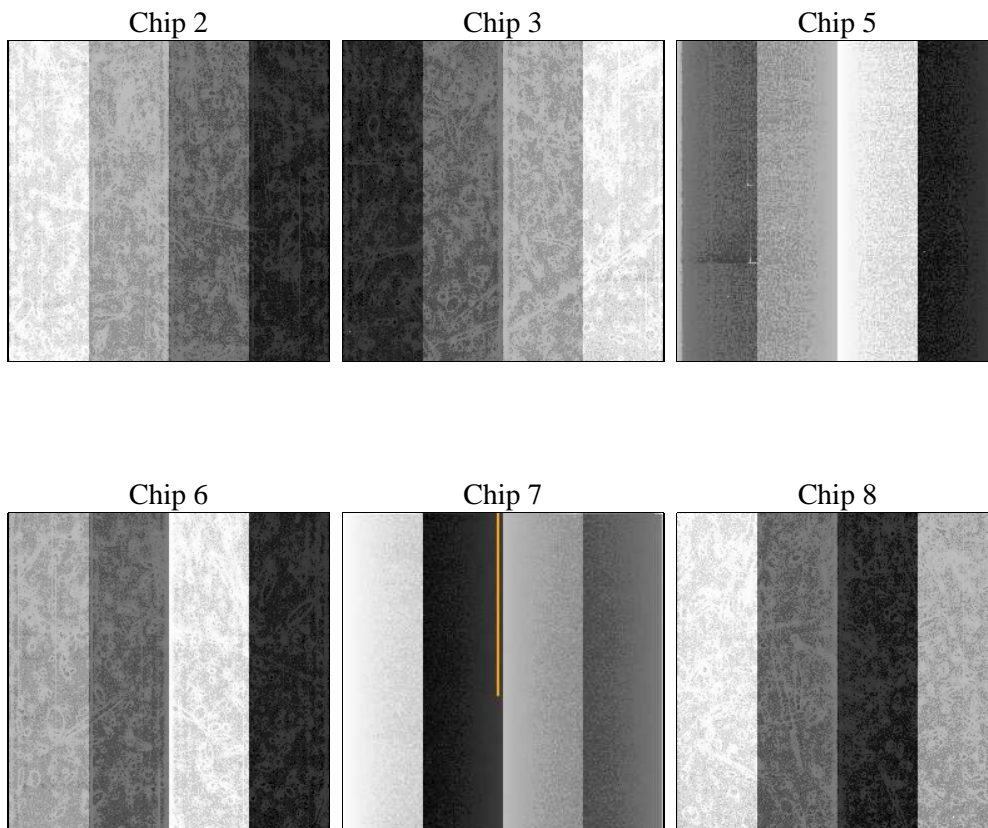
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	14963.199944317	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	14963.199944317	Sum of GTIs [s]
date	2014-12-06T22:46:10	Date and time of file creation	ontime3	14963.199944317	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	14963.199944317	Sum of GTIs [s]
			ontime6	14963.199944317	Sum of GTIs [s]
			ontime7	14963.199944317	Sum of GTIs [s]
			ontime8	14959.958934069	Sum of GTIs [s]
			l1events	469227	Number of level 1 events

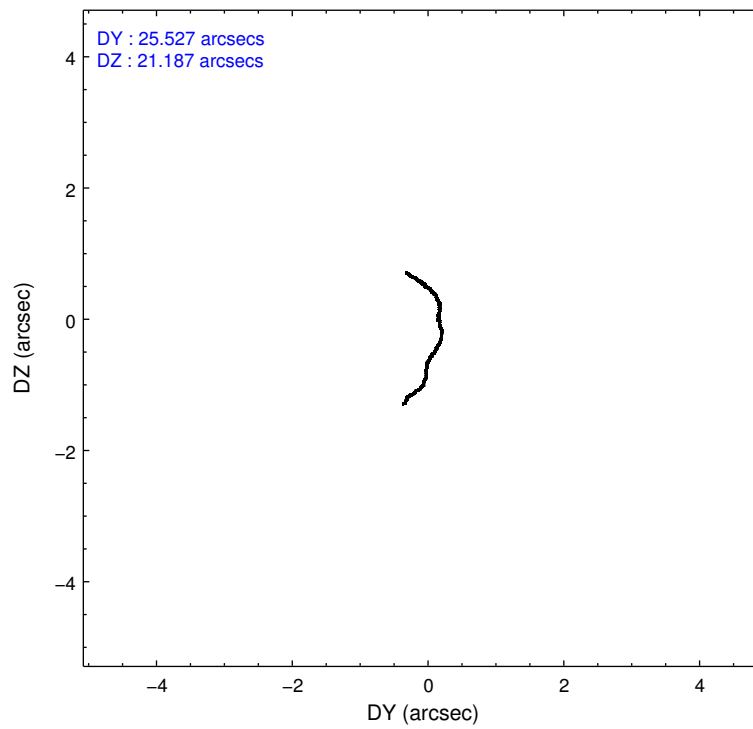
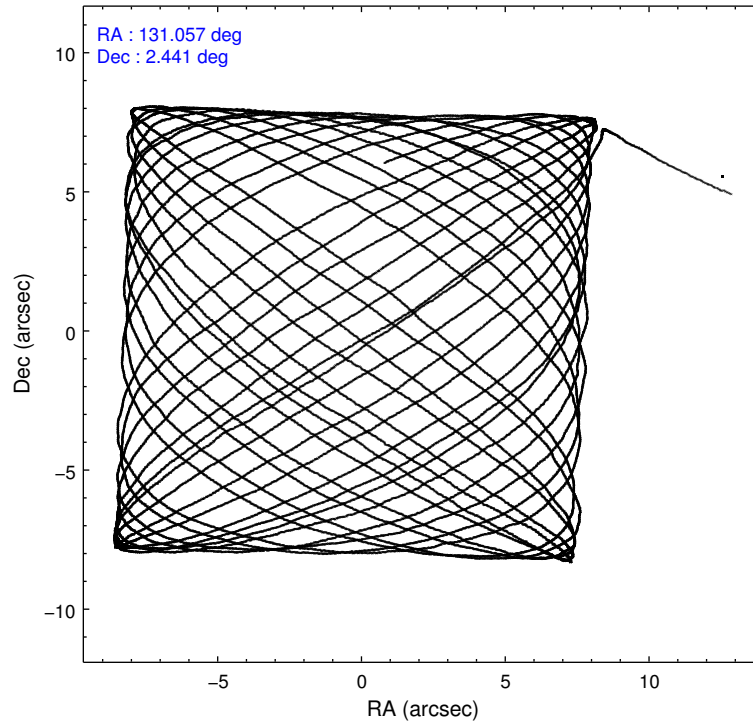
2.1.4 Events

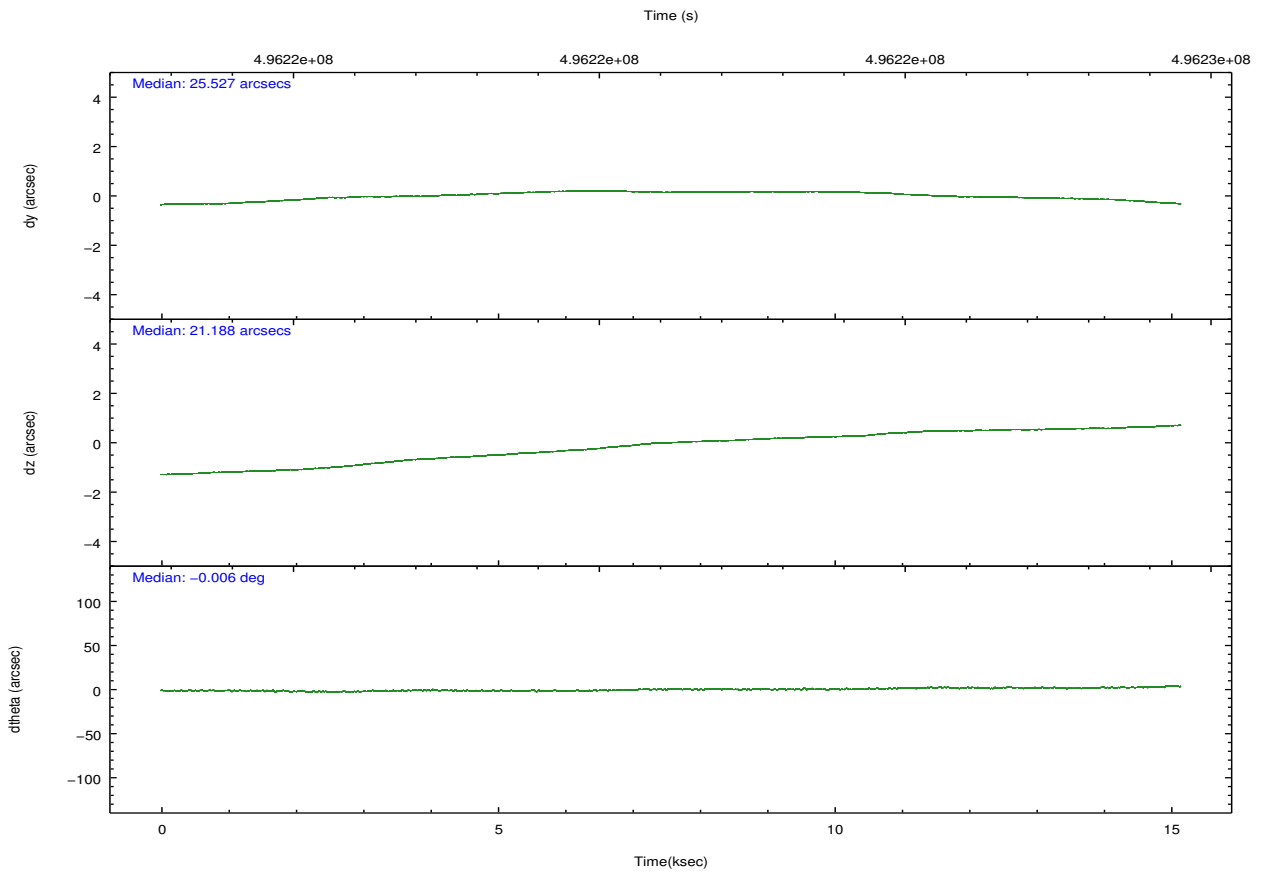
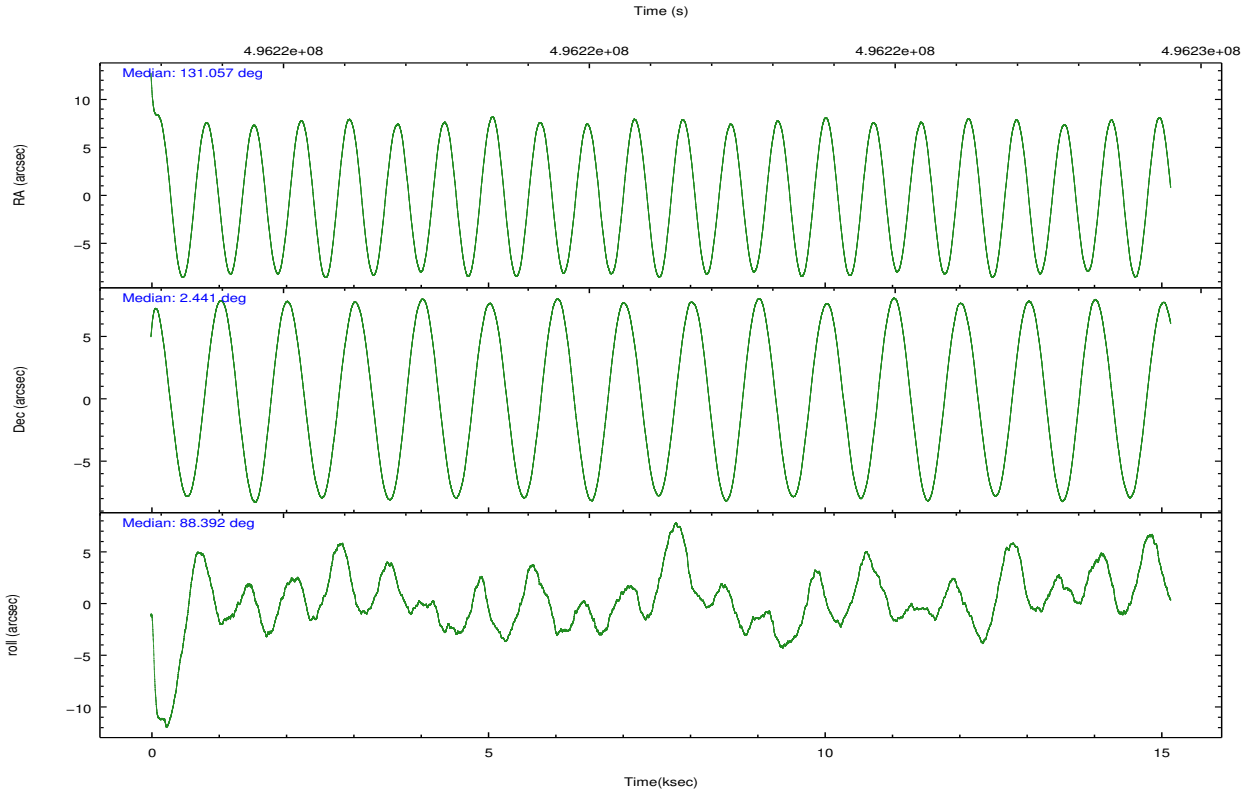
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	67825	63020	105228	66660	78235	88259	grade 0 events	2758	3348	8079	2805	3575	6725
rejected events	60316	55107	49991	58644	41446	64263		4%	5%	7%	4%	4%	7%
rejected %	88%	87%	47%	87%	52%	72%	grade 1 events	36	41	1065	36	109	51
								0%	0%	1%	0%	0%	0%
							grade 2 events	1906	1581	16321	1874	7704	5697
								2%	2%	15%	2%	9%	6%
							grade 3 events	743	761	1945	770	3268	2766
								1%	1%	1%	1%	4%	3%
							grade 4 events	731	798	1824	796	3371	2600
								1%	1%	1%	1%	4%	2%
							grade 5 events	2514	3014	7577	3099	8318	4570
								3%	4%	7%	4%	10%	5%
							grade 6 events	1372	1431	27087	1773	18891	6209
								2%	2%	25%	2%	24%	7%
							grade 7 events	57765	52046	41330	55507	32999	59641
								85%	82%	39%	83%	42%	67%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	131.069998	131.056697225826	CCD I2 on	Y	Y
[deg] Pointing Dec	2.417018	2.440908665499416	CCD I3 on	Y	Y
[deg] Pointing Roll	88.237052	88.39424773347713	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	496213732.184000	496212726.87939	CCD S5 on	N	N
Observation start date	2013-09-22T05:07:45	2013-09-22T04:52:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	496228732.184000	496229953.03033	On-chip summing requested	N	N
Observation end date	2013-09-22T09:17:45	2013-09-22T09:39:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



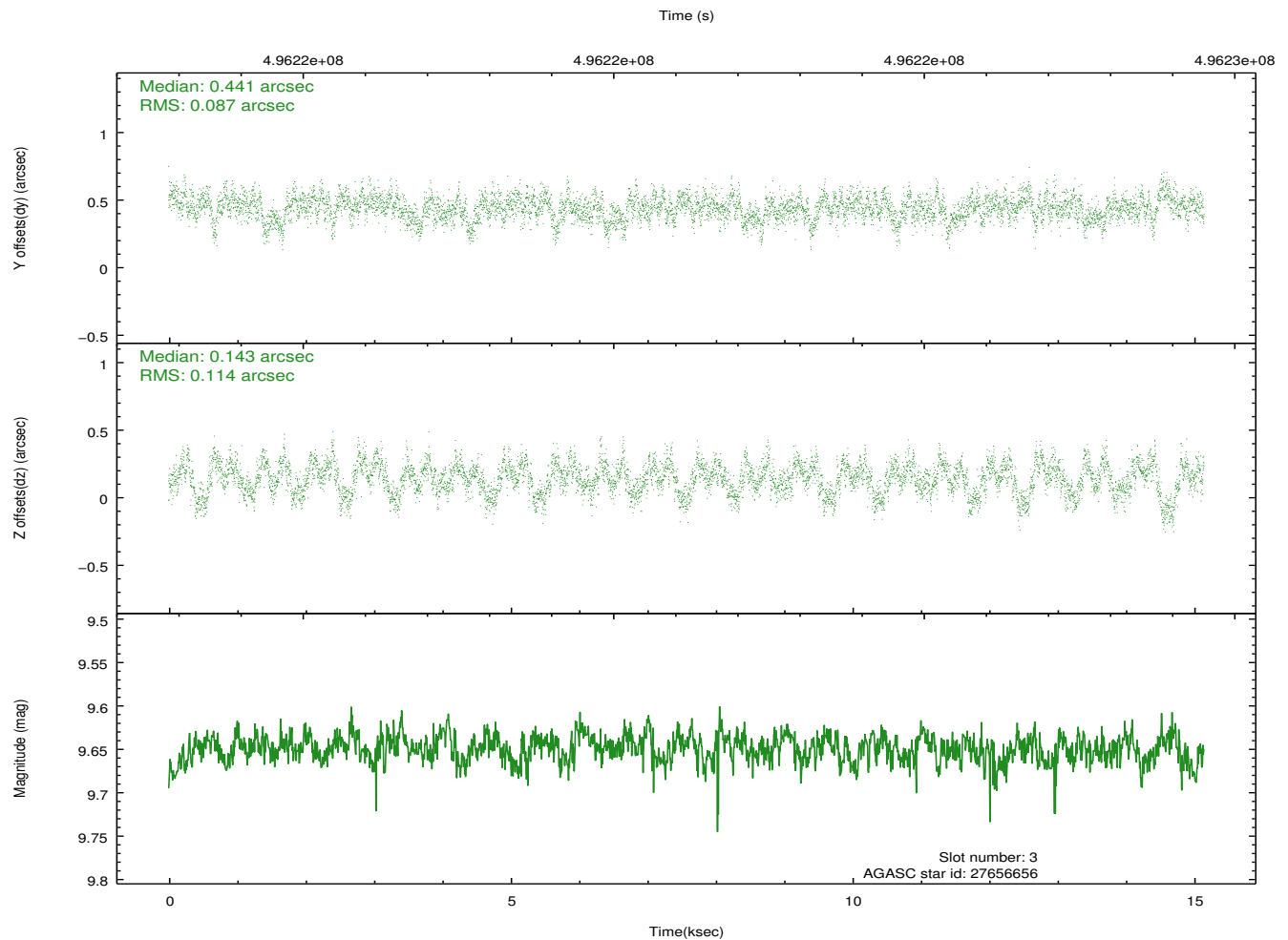
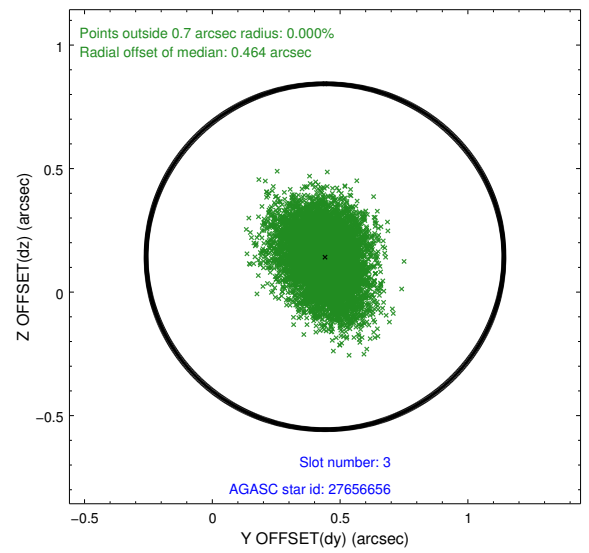
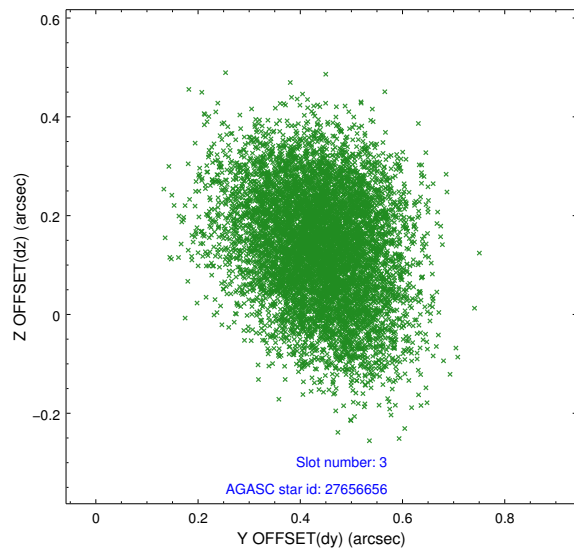


Slot Statistics

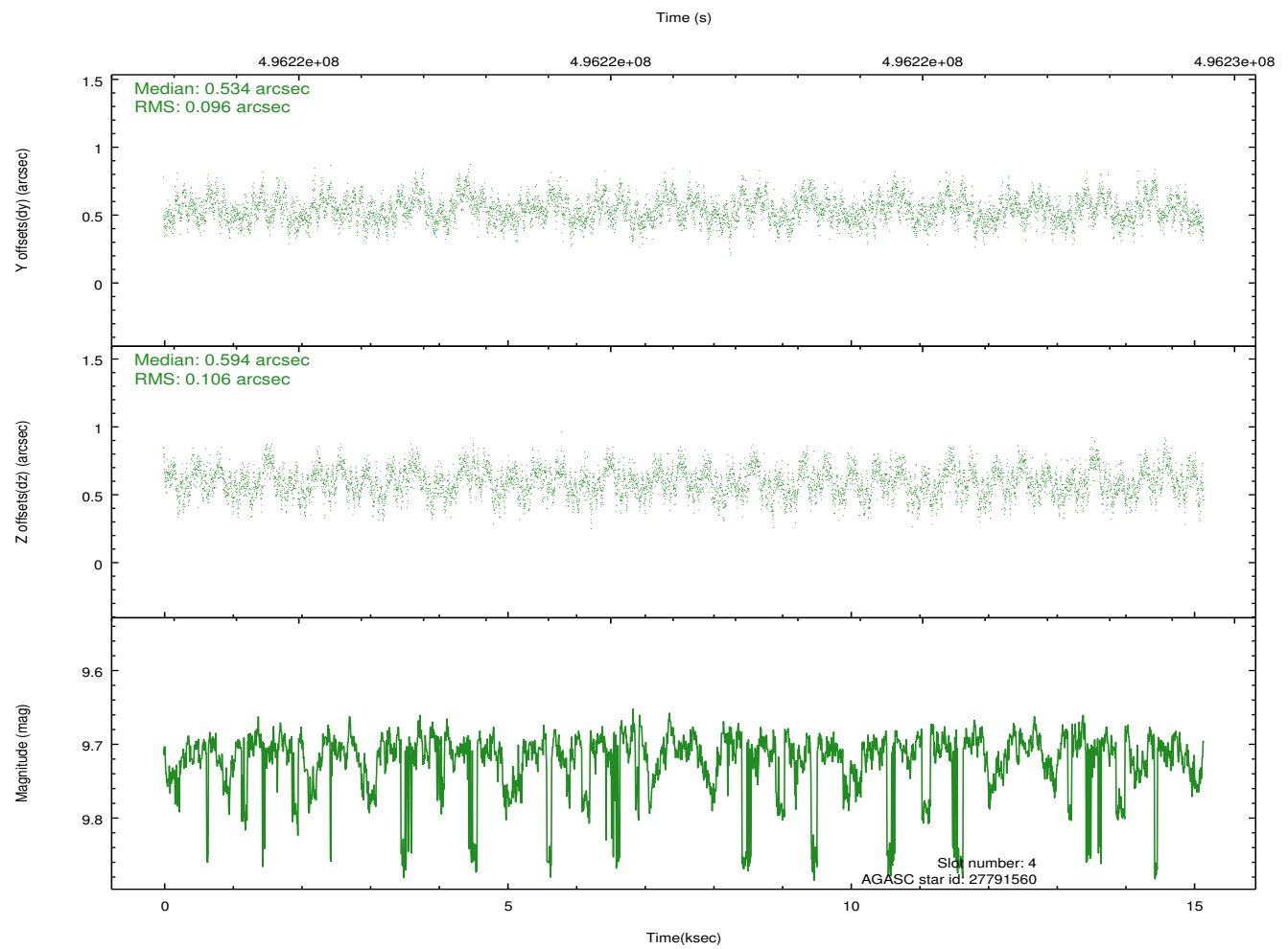
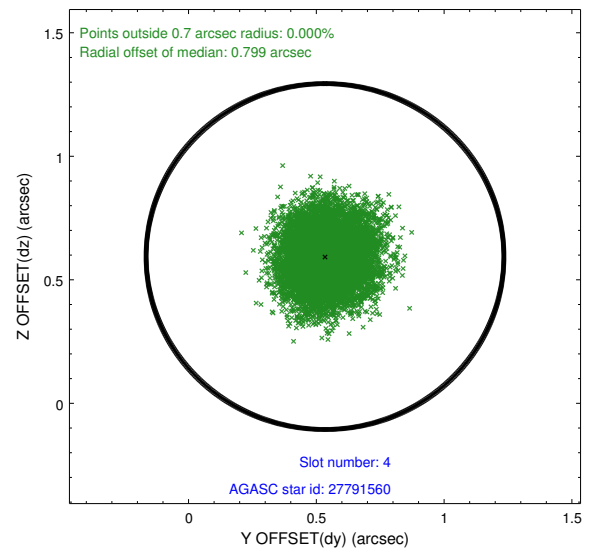
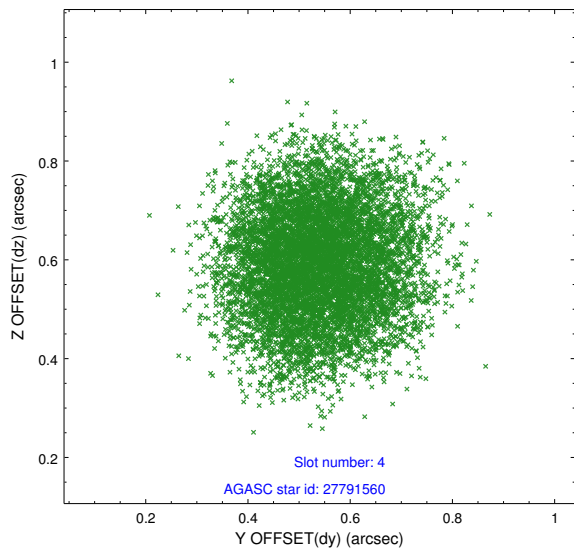
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	3695	0.066	-0.073	0.017	0.047	0.000000	0.000000	917.34	-1738.20
1	FID		ACIS-S-5	7.11	3695	-0.192	0.015	0.012	0.020	0.000000	0.000000	-1831.77	159.09
2	FID		ACIS-S-6	7.21	3695	0.104	0.069	0.017	0.041	0.000000	0.000000	382.59	803.47
3	GUIDE	used	27656656	9.65	7378	0.441	0.143	0.154	0.247	131.234175	1.825888	-2108.16	-655.72
4	GUIDE	used	27791560	9.71	7341	0.534	0.594	0.156	0.239	131.463881	1.806219	-2153.54	-1483.71
5	GUIDE	used	28182944	7.81	7357	-0.452	-0.170	0.073	0.114	131.041173	3.063266	2321.69	175.07
6	GUIDE	used	28183480	9.10	7389	-0.244	-0.009	0.115	0.177	131.000335	2.758086	1219.86	288.41
7	GUIDE	used	28185448	9.20	7315	-0.283	-0.551	0.110	0.180	130.462821	2.371545	-230.32	2177.58

2.4 Star Slots

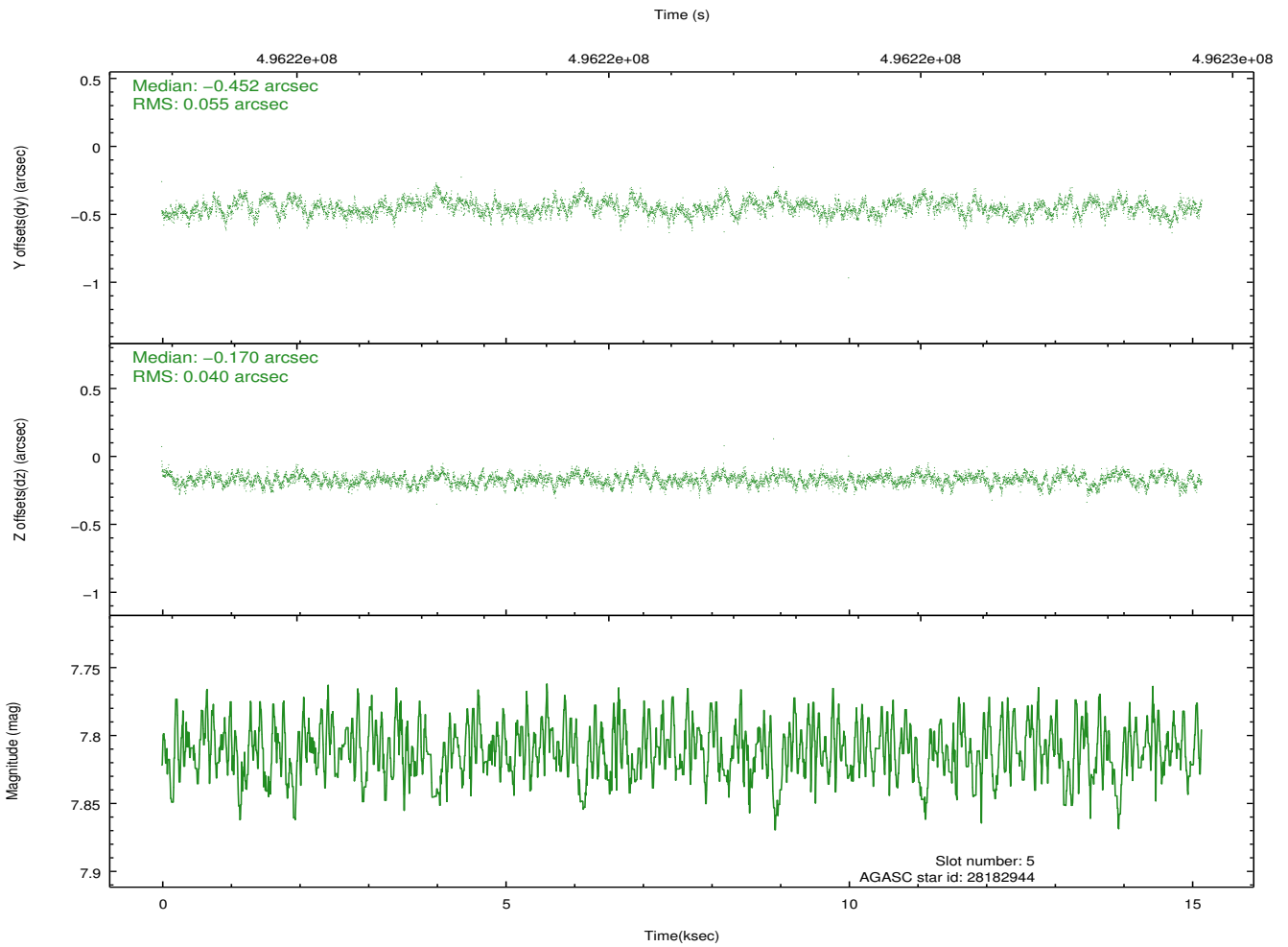
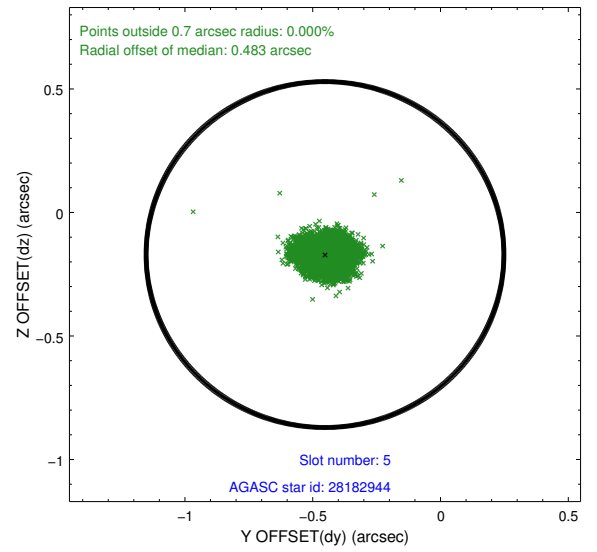
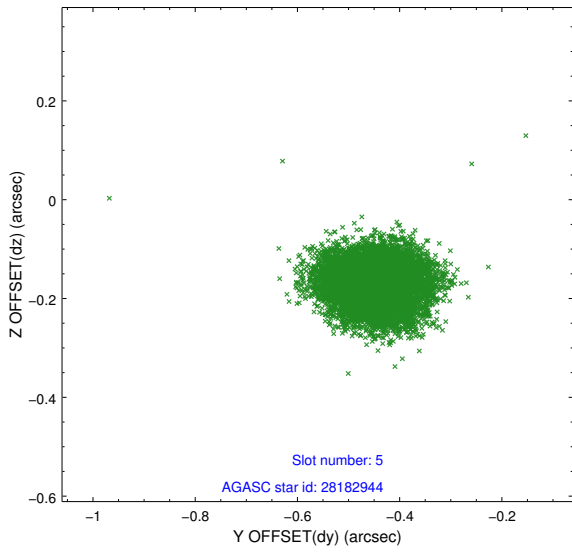
2.4.1 Slot 3



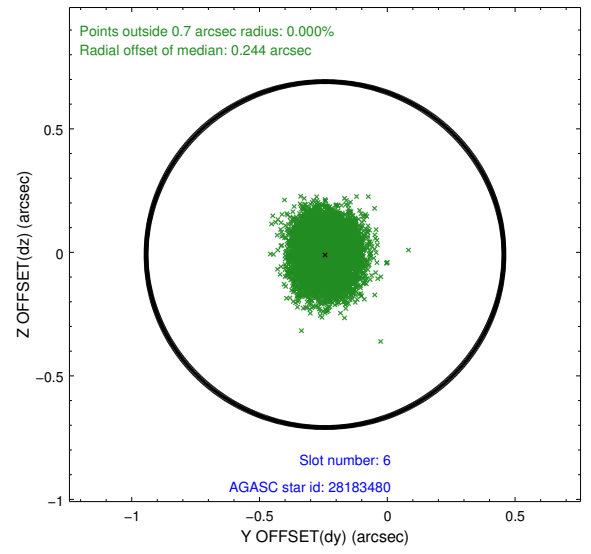
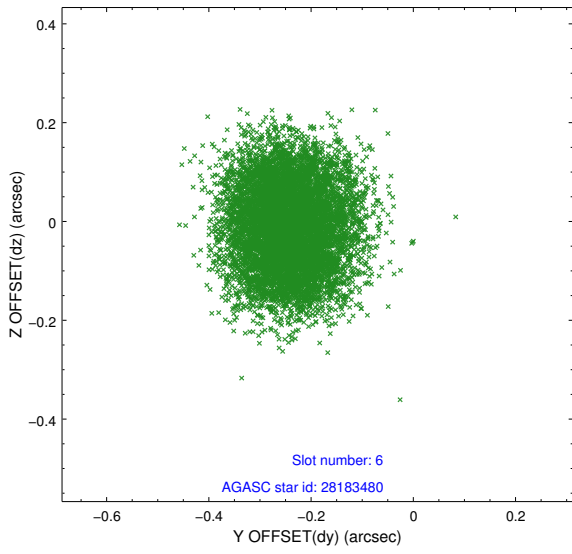
2.4.2 Slot 4



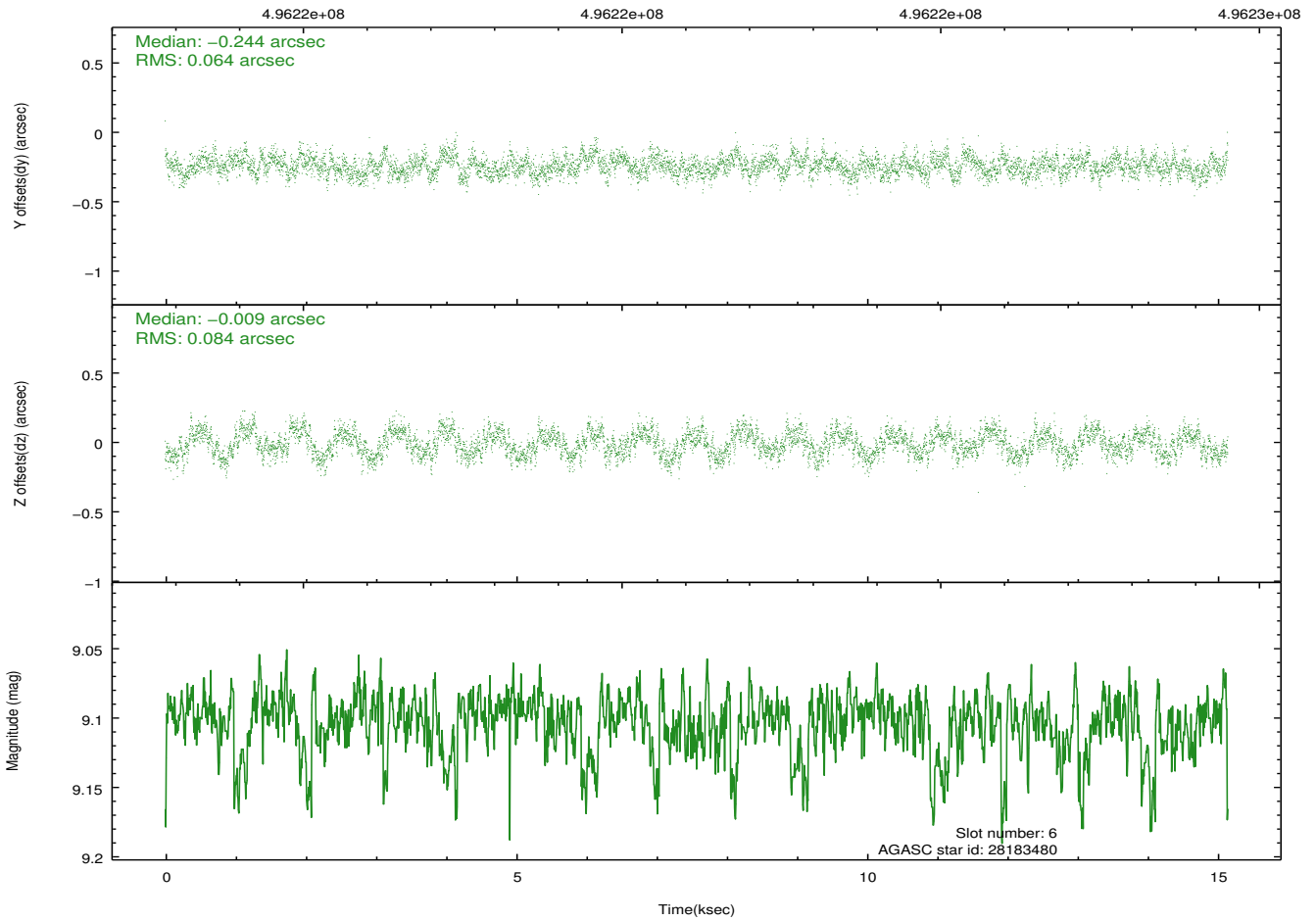
2.4.3 Slot 5



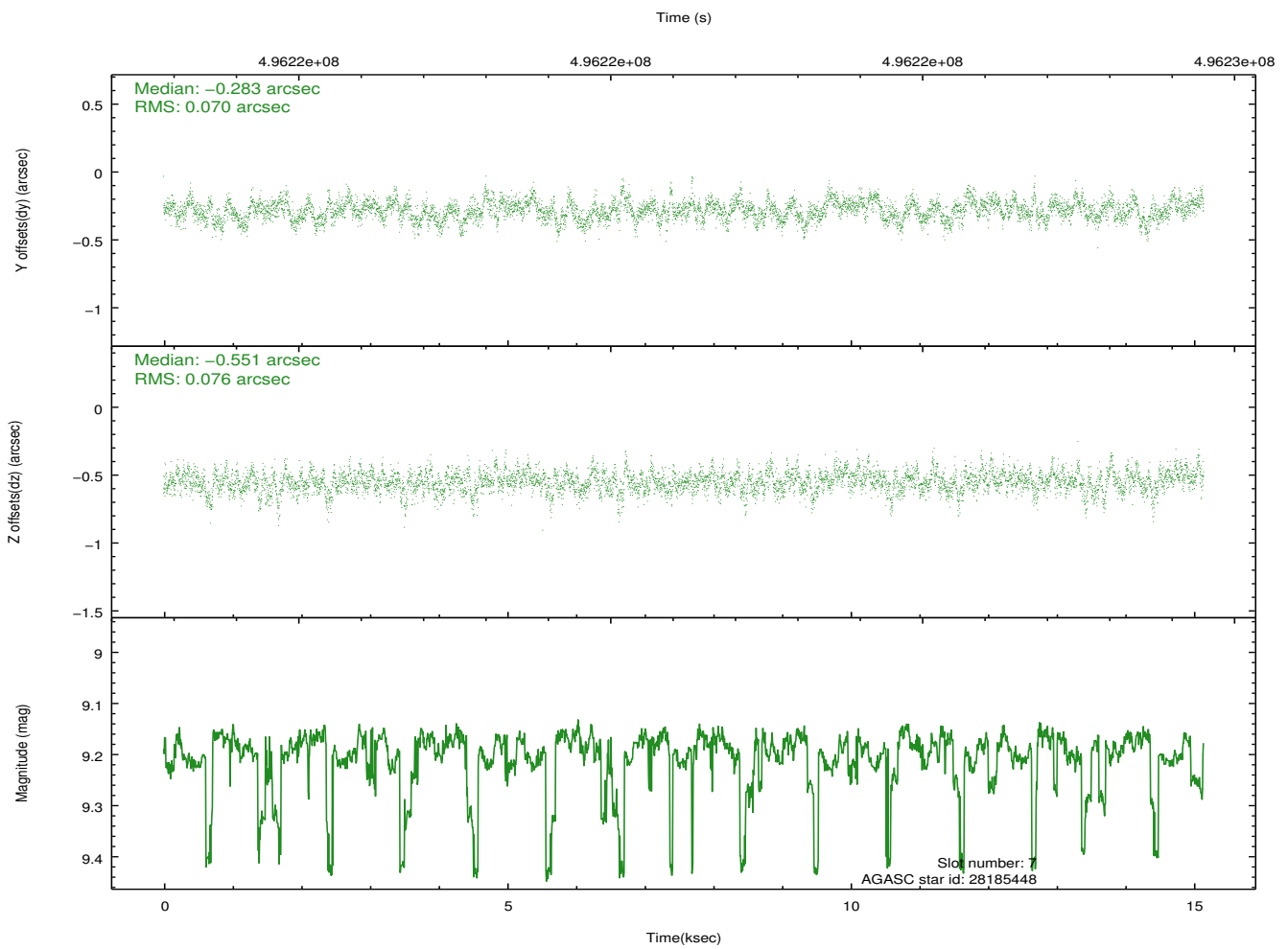
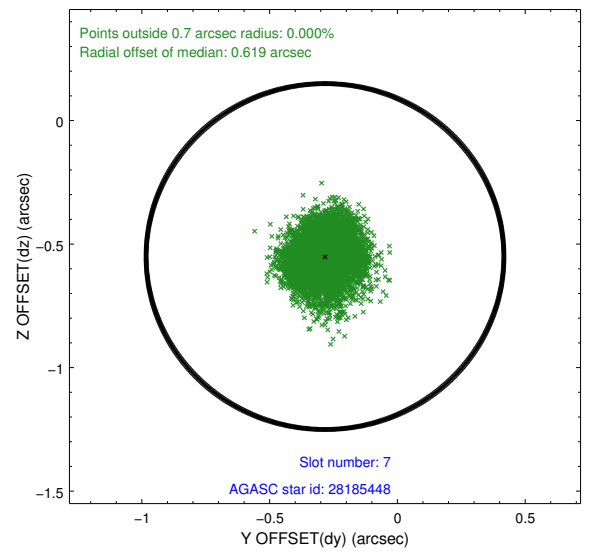
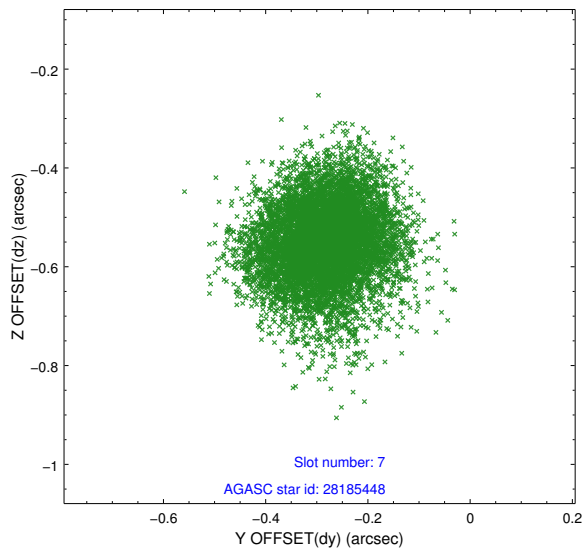
2.4.4 Slot 6



Time (s)

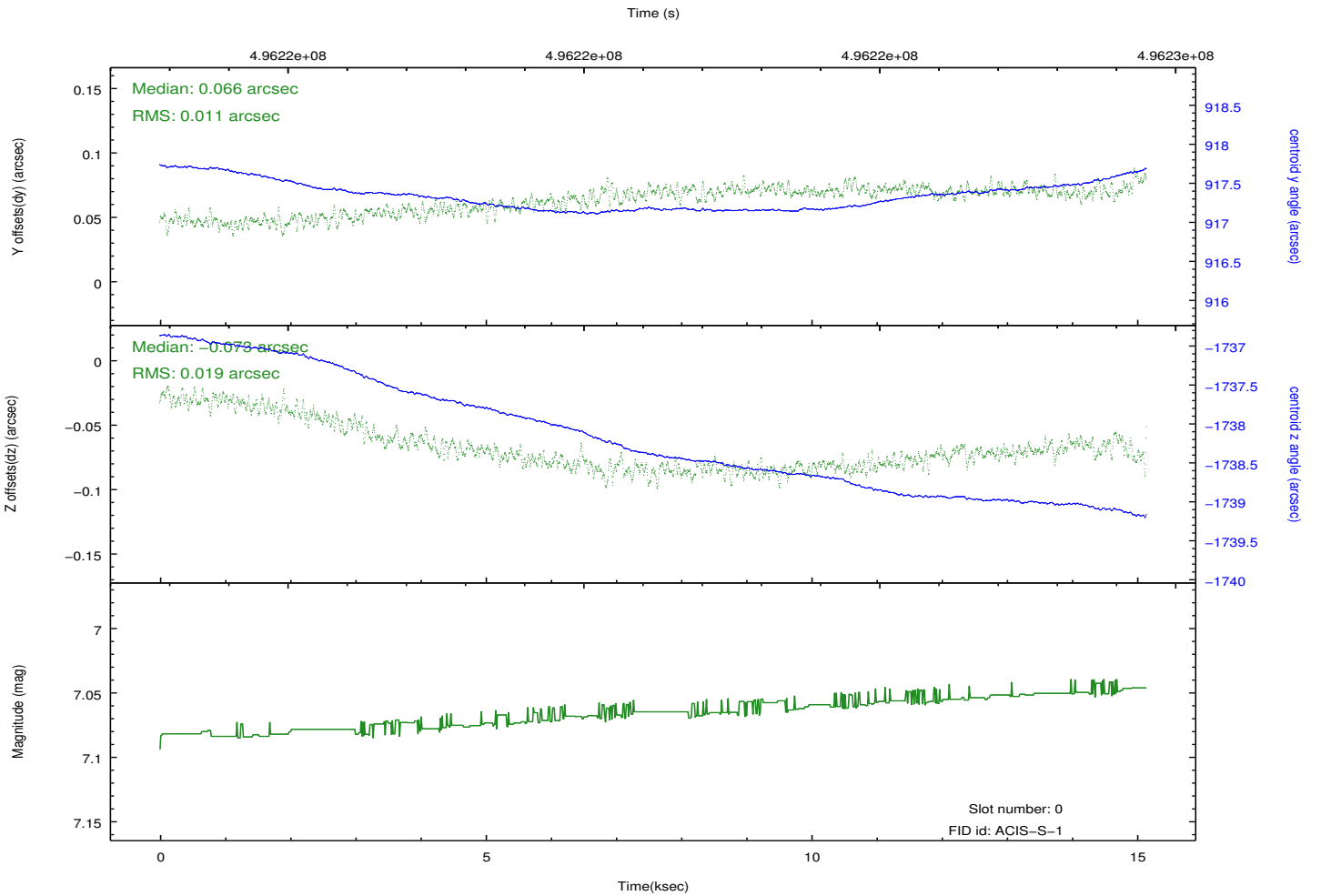
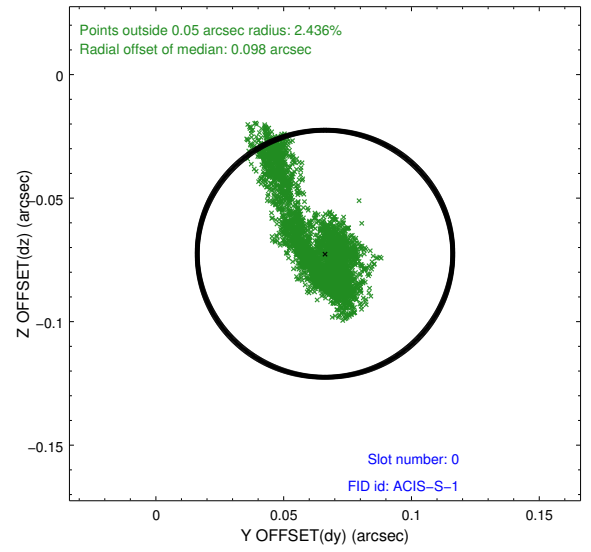
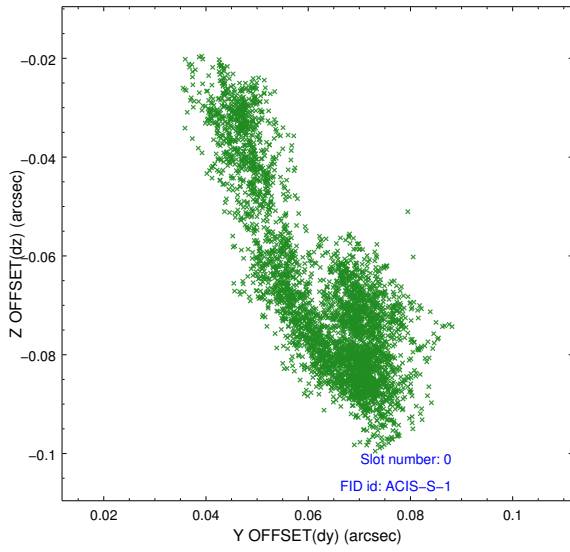


2.4.5 Slot 7

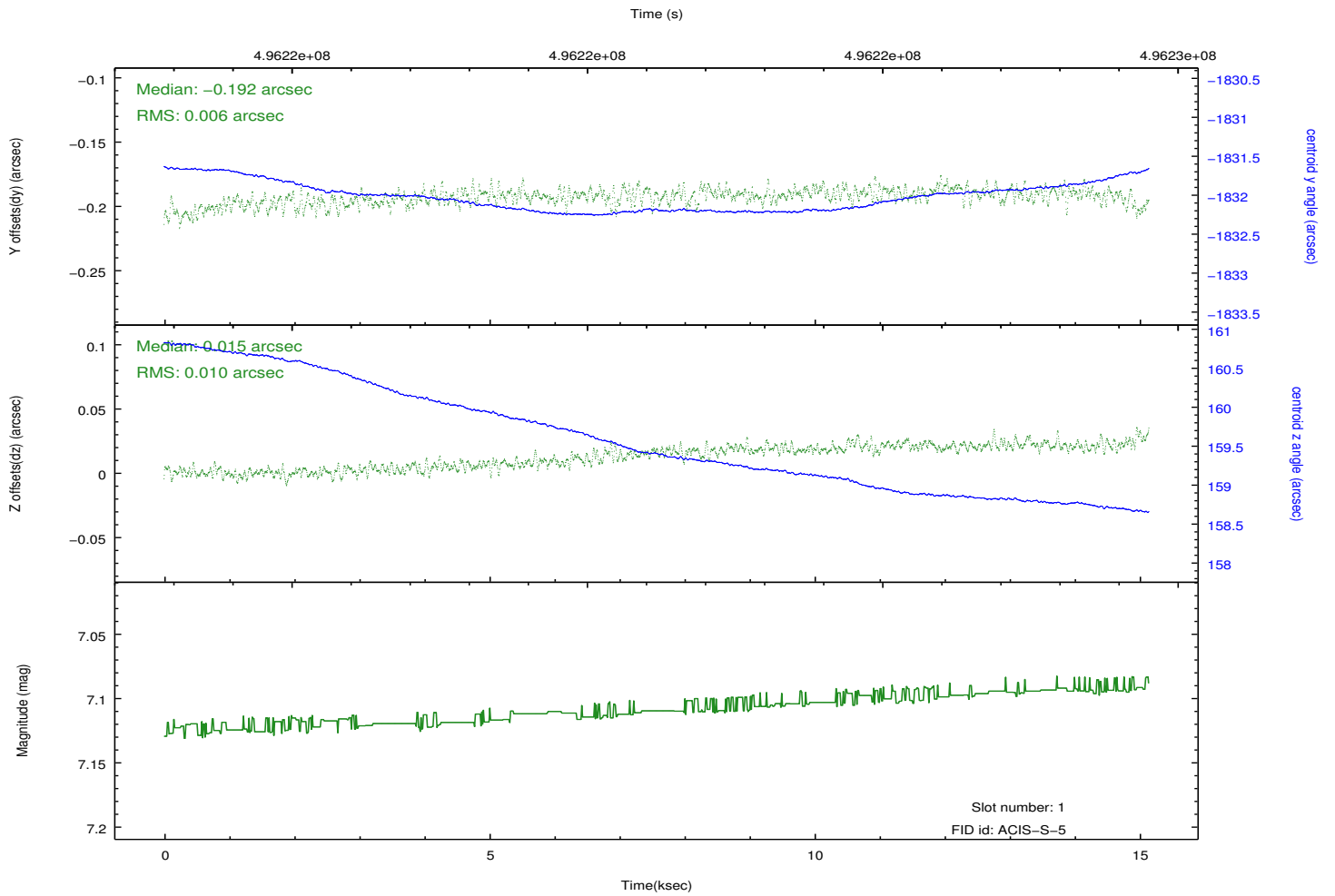
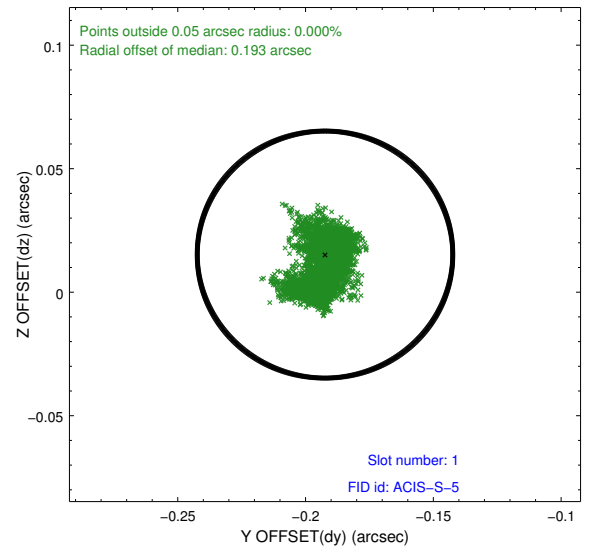
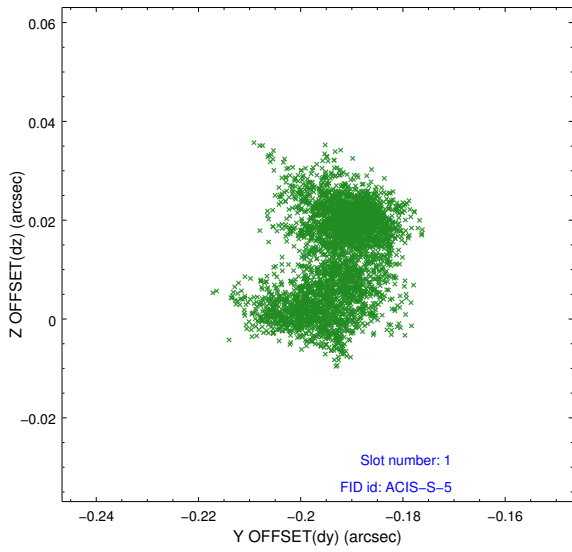


2.5 FID Slots

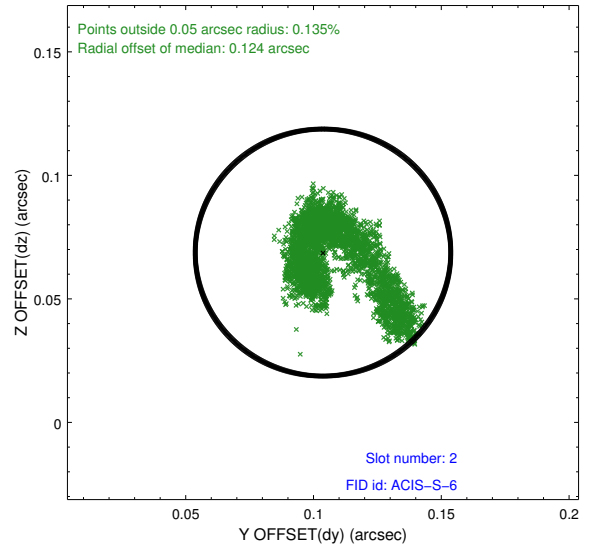
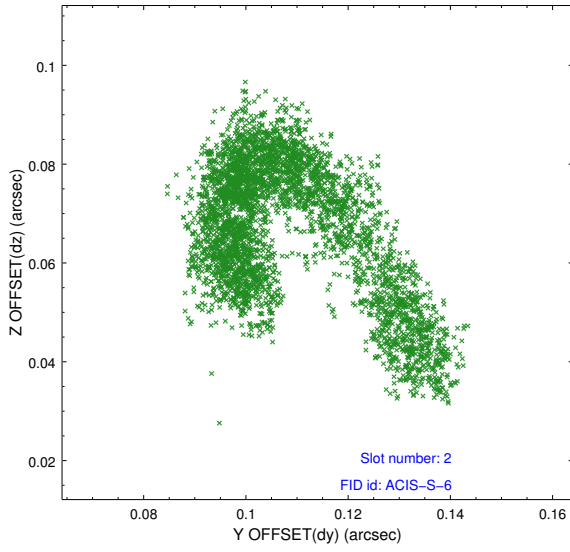
2.5.1 Slot 0



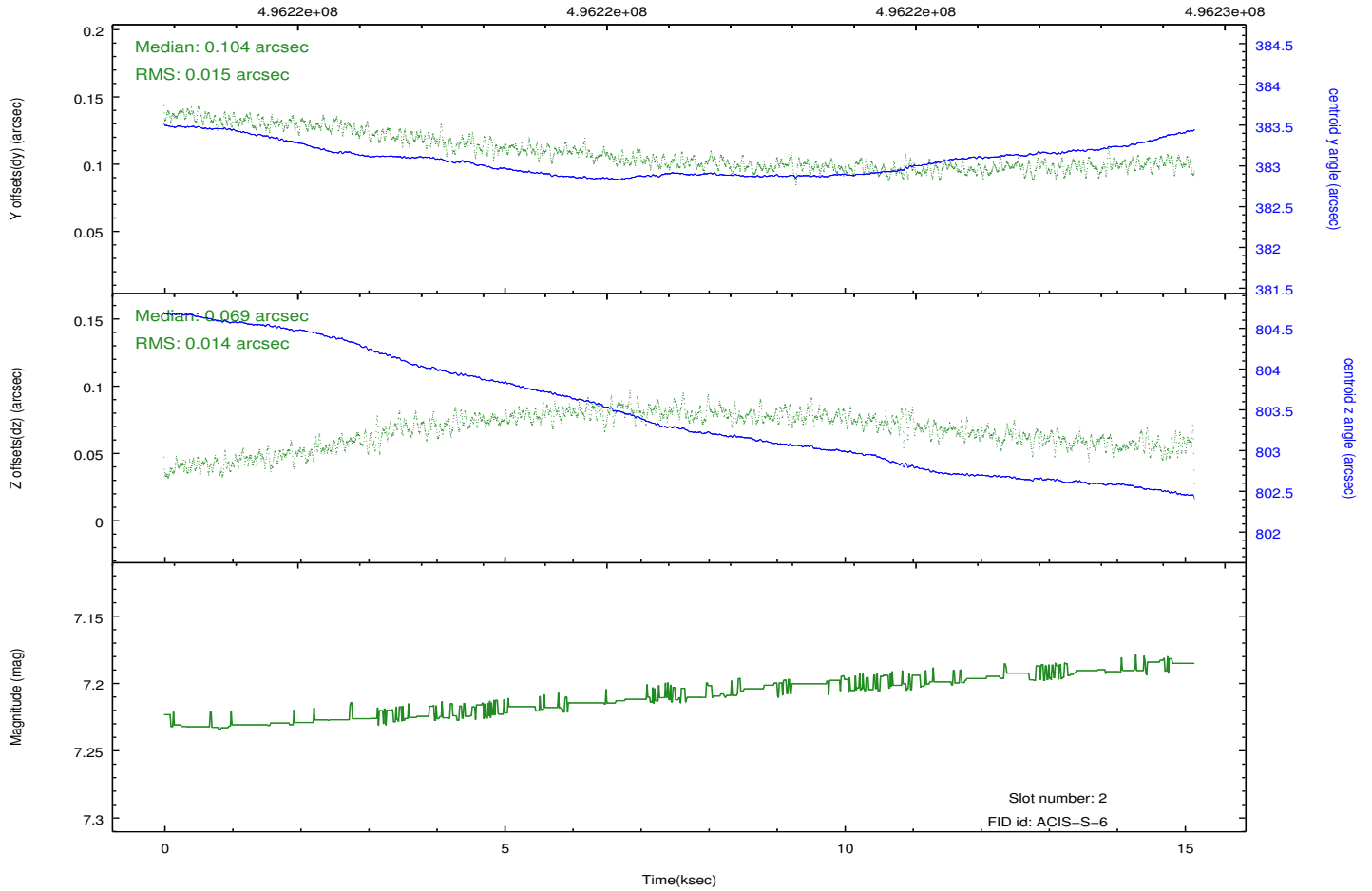
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.963199944317

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.