

V&V Reference Report

L2 ASCDS Version : 10

Observation 15663 - L2 Version 2
Chandra X-Ray Center

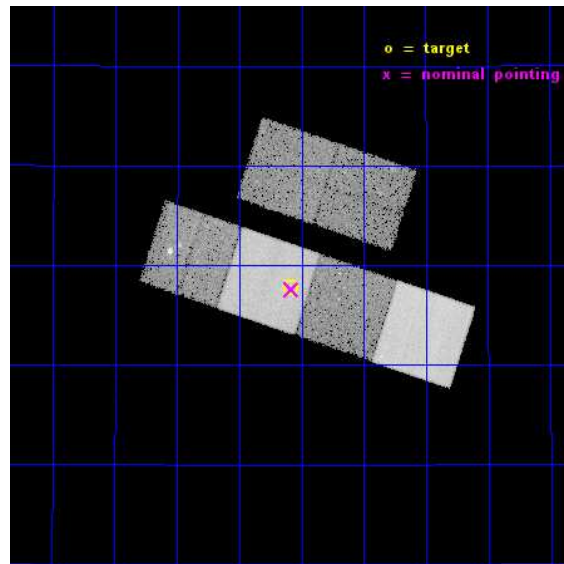
L2 Processing Date : Dec 3 2014

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1 Front

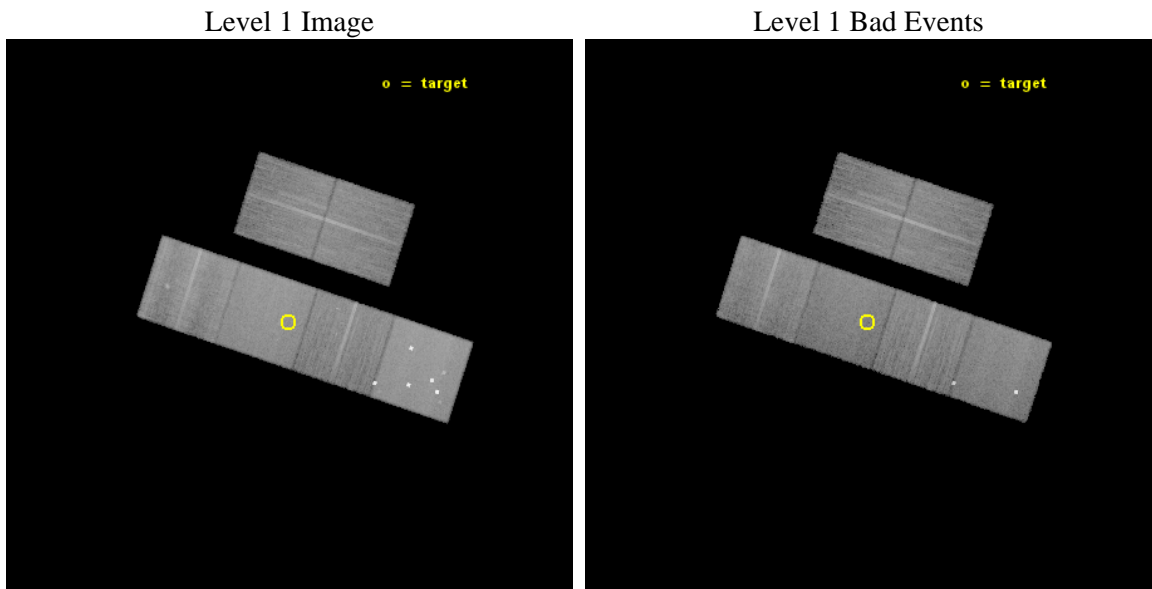
seq_num	502037	Sequence number
obs_id	15663	Observation id
title	The Energetics of the High-Redshift GRB 130606A	Proposal title
observer	Prof. Edo Berger	Principal investigator
object	GRB130606A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.39625	Observer's specified target RA [deg]
dec_targ	29.796222	Observer's specified target Dec [deg]
ra_nom	249.39539263583	Nominal RA [deg]
dec_nom	29.793299492565	Nominal Dec [deg]
roll_nom	198.24327695105	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29964.799888432	Sum of GTIs [s]
liveltime	29585.367549608	Livetime [s]
ontime2	29958.317787468	Sum of GTIs [s]
ontime3	29964.799888432	Sum of GTIs [s]
ontime5	29964.799888432	Sum of GTIs [s]
ontime6	29964.799888432	Sum of GTIs [s]
ontime7	29964.799888432	Sum of GTIs [s]
ontime8	29964.799888432	Sum of GTIs [s]
l2events	252067	Number of level 2 events



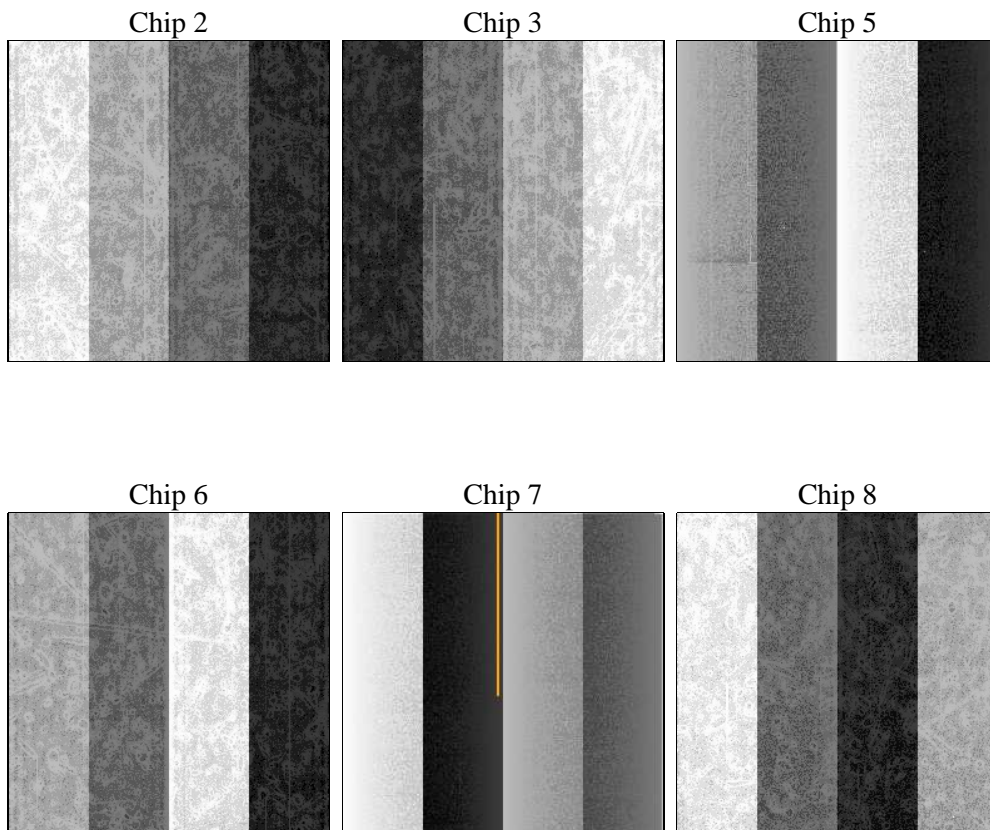
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	29964.799888432	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	29958.317787468	Sum of GTIs [s]
date	2014-12-03T17:19:50	Date and time of file creation	ontime3	29964.799888432	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	29964.799888432	Sum of GTIs [s]
			ontime6	29964.799888432	Sum of GTIs [s]
			ontime7	29964.799888432	Sum of GTIs [s]
			ontime8	29964.799888432	Sum of GTIs [s]
			l1events	1097883	Number of level 1 events

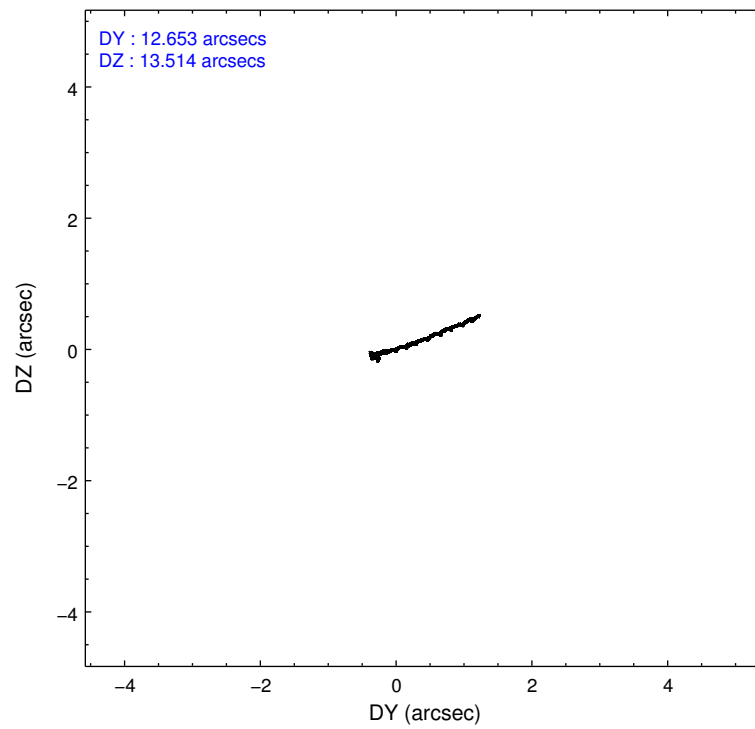
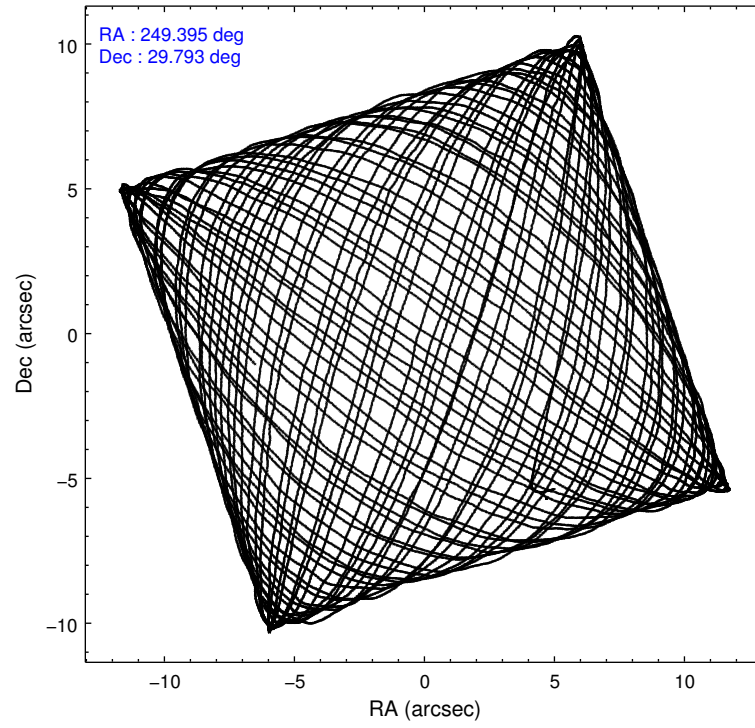
2.1.4 Events

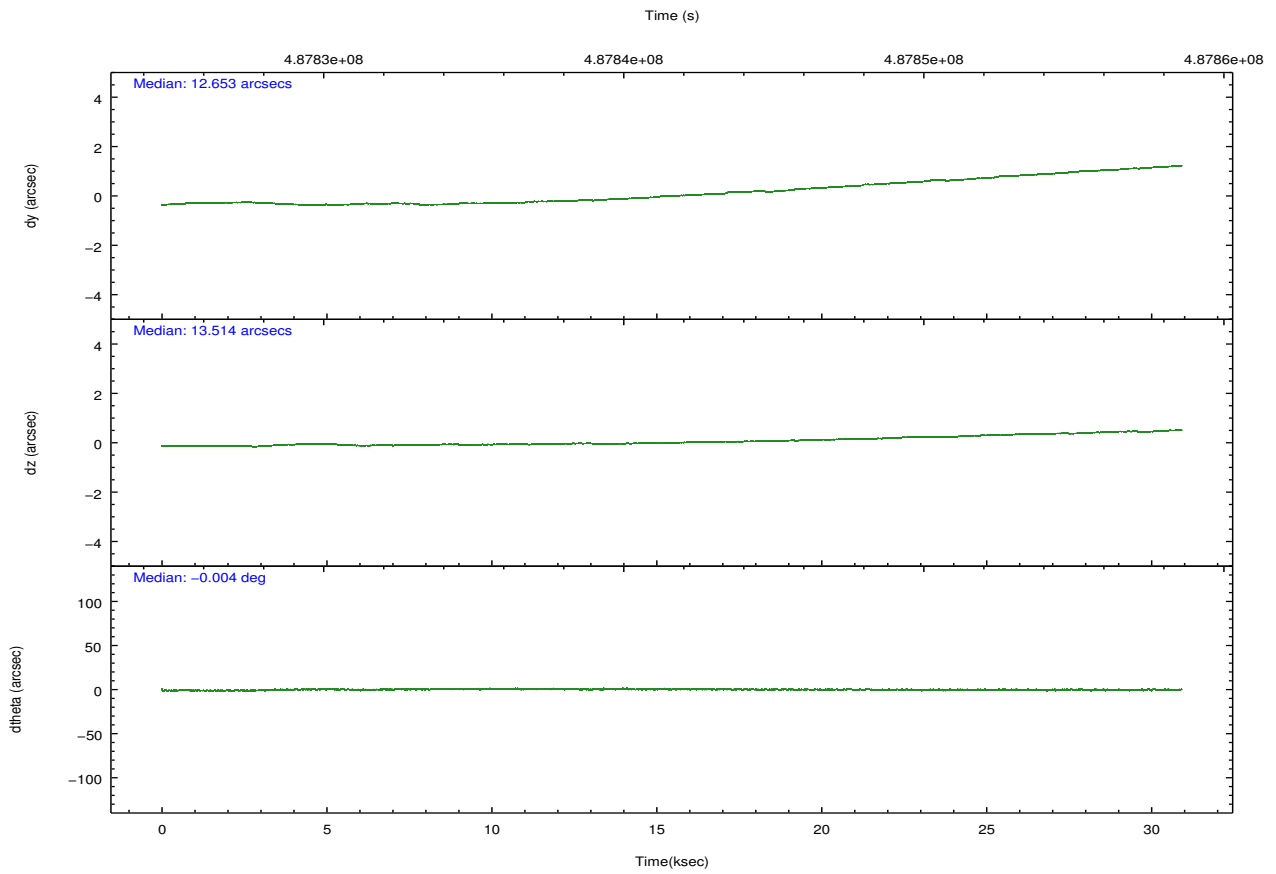
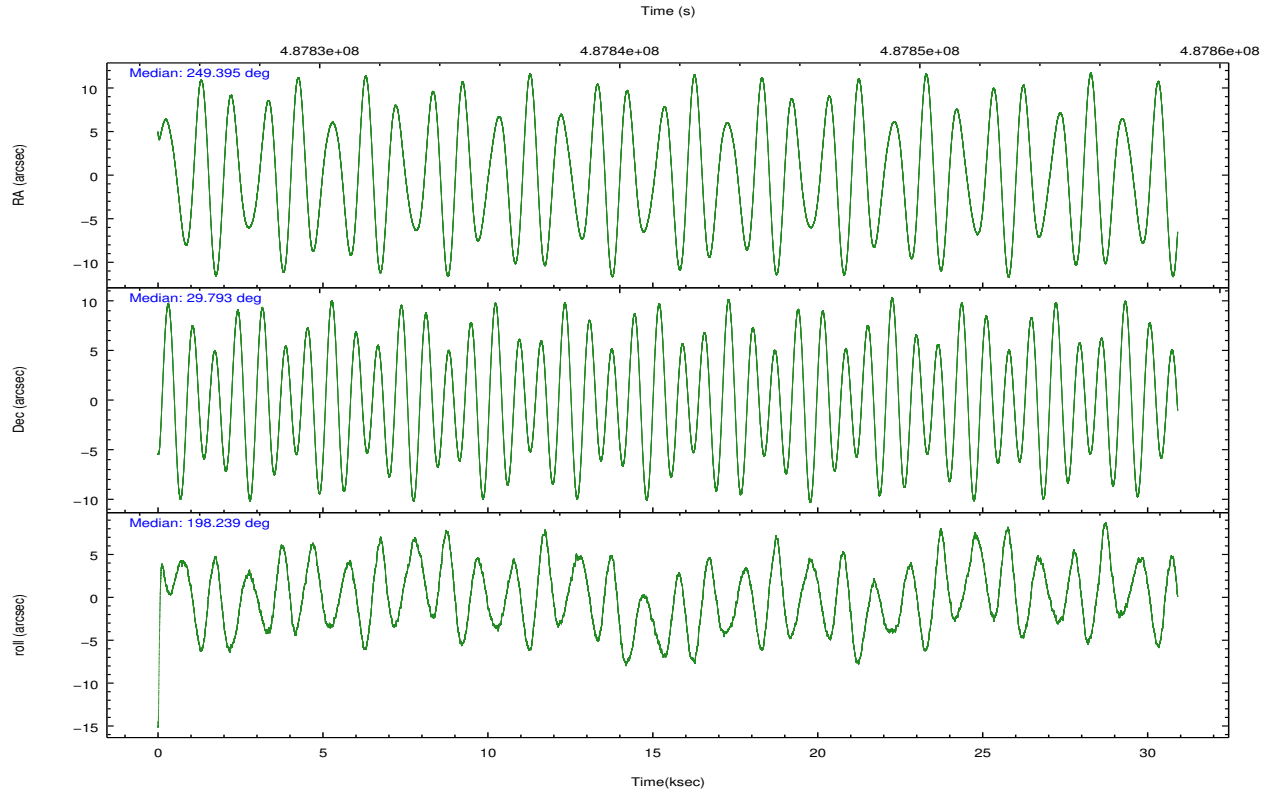
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	145384	137391	283148	145301	197153	189506	grade 0 events	5608	5541	35268	6057	7409	14332
rejected events	129305	121505	134622	127871	111611	140210		3%	4%	12%	4%	3%	7%
rejected %	88%	88%	47%	88%	56%	73%	grade 1 events	69	80	1055	76	217	145
								0%	0%	0%	0%	0%	0%
							grade 2 events	3944	3503	38871	3905	17690	11973
								2%	2%	13%	2%	8%	6%
							grade 3 events	1686	1730	4145	1755	7007	5034
								1%	1%	1%	1%	3%	2%
							grade 4 events	1655	1757	3979	1684	7115	4767
								1%	1%	1%	1%	3%	2%
							grade 5 events	6441	7622	20111	7554	20110	10807
								4%	5%	7%	5%	10%	5%
							grade 6 events	3186	3355	66280	4031	46322	13191
								2%	2%	23%	2%	23%	6%
							grade 7 events	122795	113803	113439	120239	91283	129257
								84%	82%	40%	82%	46%	68%

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	249.416060	249.3953926358271	CCD I2 on	O1	Y
[deg] Pointing Dec	29.813931	29.79329949256477	CCD I3 on	O2	Y
[deg] Pointing Roll	198.076383	198.2432769510538	CCD S0 on	N	N
[s] Window start time (MET)	487382467.184000	487382467.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	487900867.184000	487900867.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	487827054.184000	487825537.84753	On-chip summing requested	N	N
Observation start date	2013-06-17T03:29:47	2013-06-17T03:05:37	Subarray requested	NONE	NONE
[s] Observation end time (MET)	487857054.184000	487857792.54929	Alternating exposures requested	N	N
Observation end date	2013-06-17T11:49:47	2013-06-17T12:03:12	[s] Primary exposure time	0.000000	3.2
Read mode	TIMED	TIMED			

2.3 Aspect





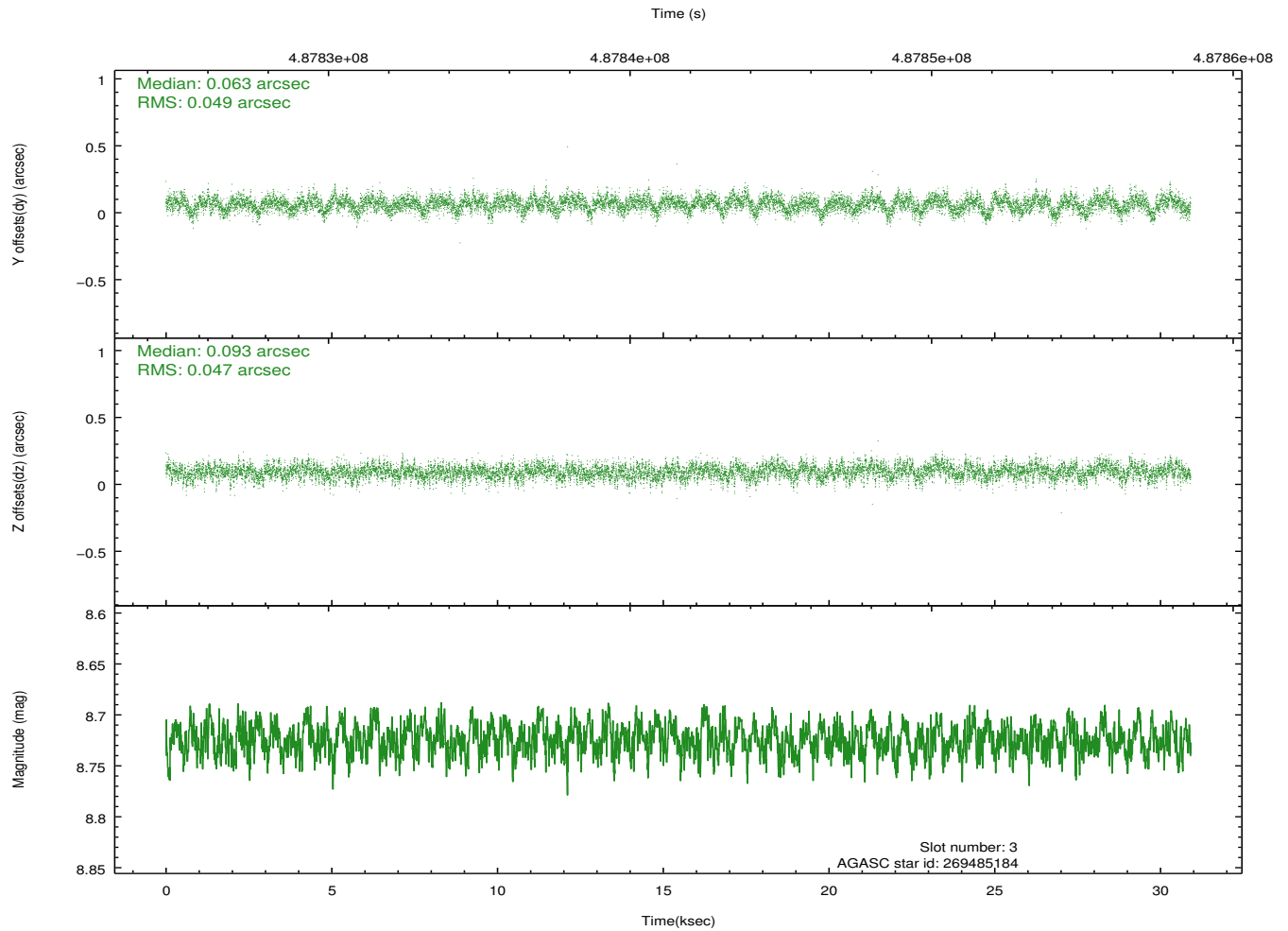
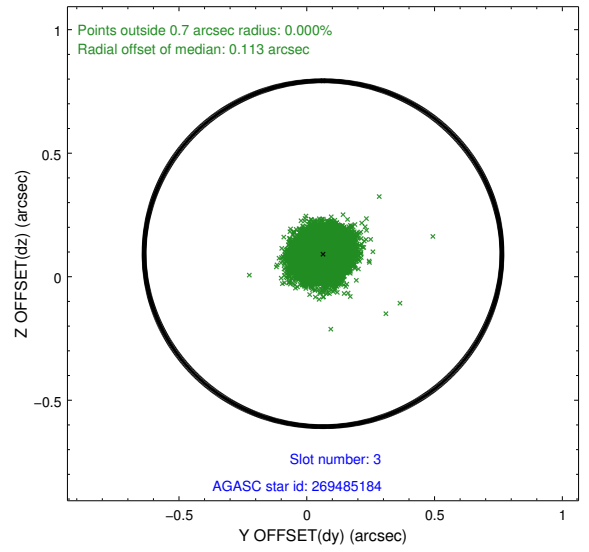
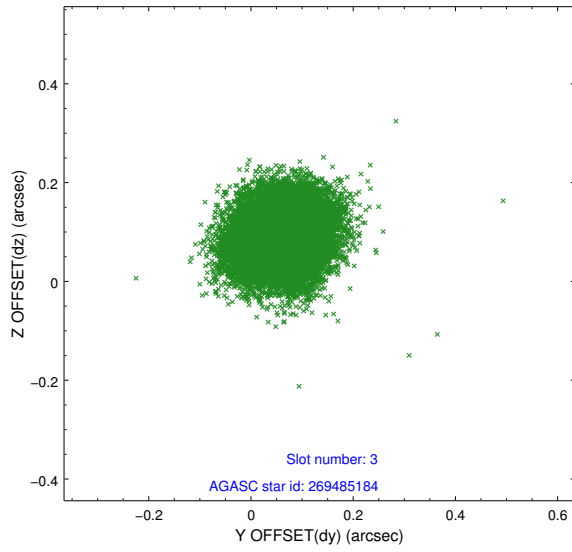
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	7540	-0.036	-0.033	0.010	0.027	0.000000	0.000000	-765.78	-1734.96
1	FID		ACIS-S-4	7.08	7540	0.162	0.027	0.018	0.057	0.000000	0.000000	2147.69	173.50
2	FID		ACIS-S-5	7.11	7540	-0.159	0.014	0.015	0.029	0.000000	0.000000	-1818.65	167.25
3	GUIDE	used	269485184	8.72	15078	0.063	0.093	0.072	0.118	248.976155	29.745357	1383.34	-193.79
4	GUIDE	used	269488840	9.37	15049	0.048	-0.034	0.092	0.152	248.914353	29.170462	2217.35	1709.92
5	GUIDE	used	269616824	8.54	15079	-0.003	-0.002	0.091	0.140	250.117362	29.858650	-2132.89	519.66
6	GUIDE	used	338316520	9.21	15044	-0.036	0.011	0.096	0.159	248.956143	30.223627	901.88	-1847.80
7	GUIDE	used	269620776	7.53	15079	-0.074	-0.064	0.073	0.115	249.567409	29.672490	-290.66	632.92

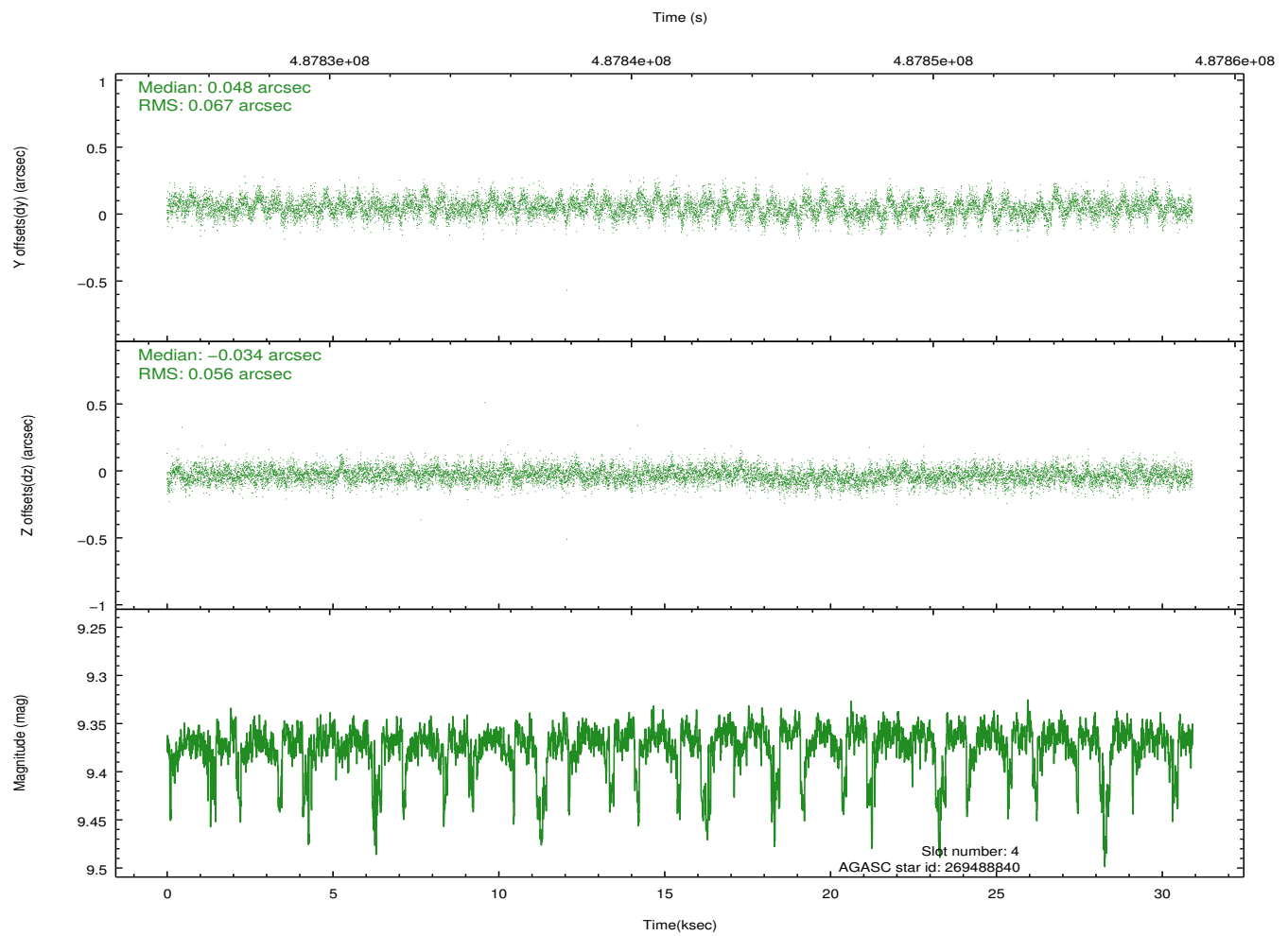
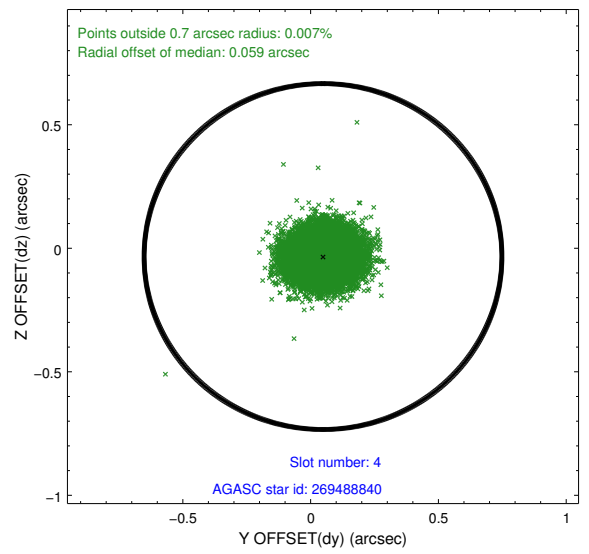
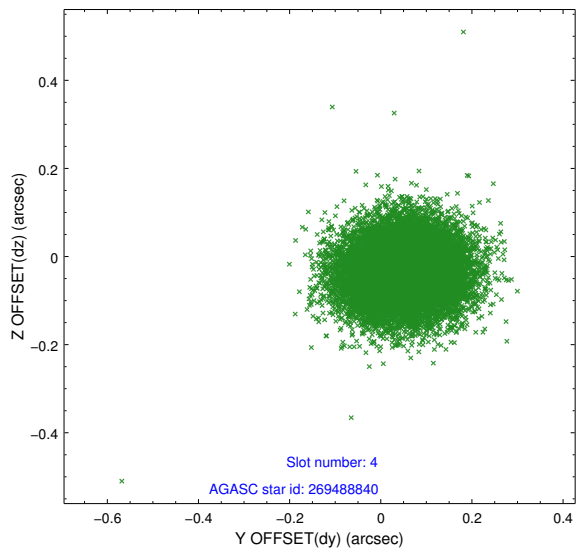
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2.4 Star Slots

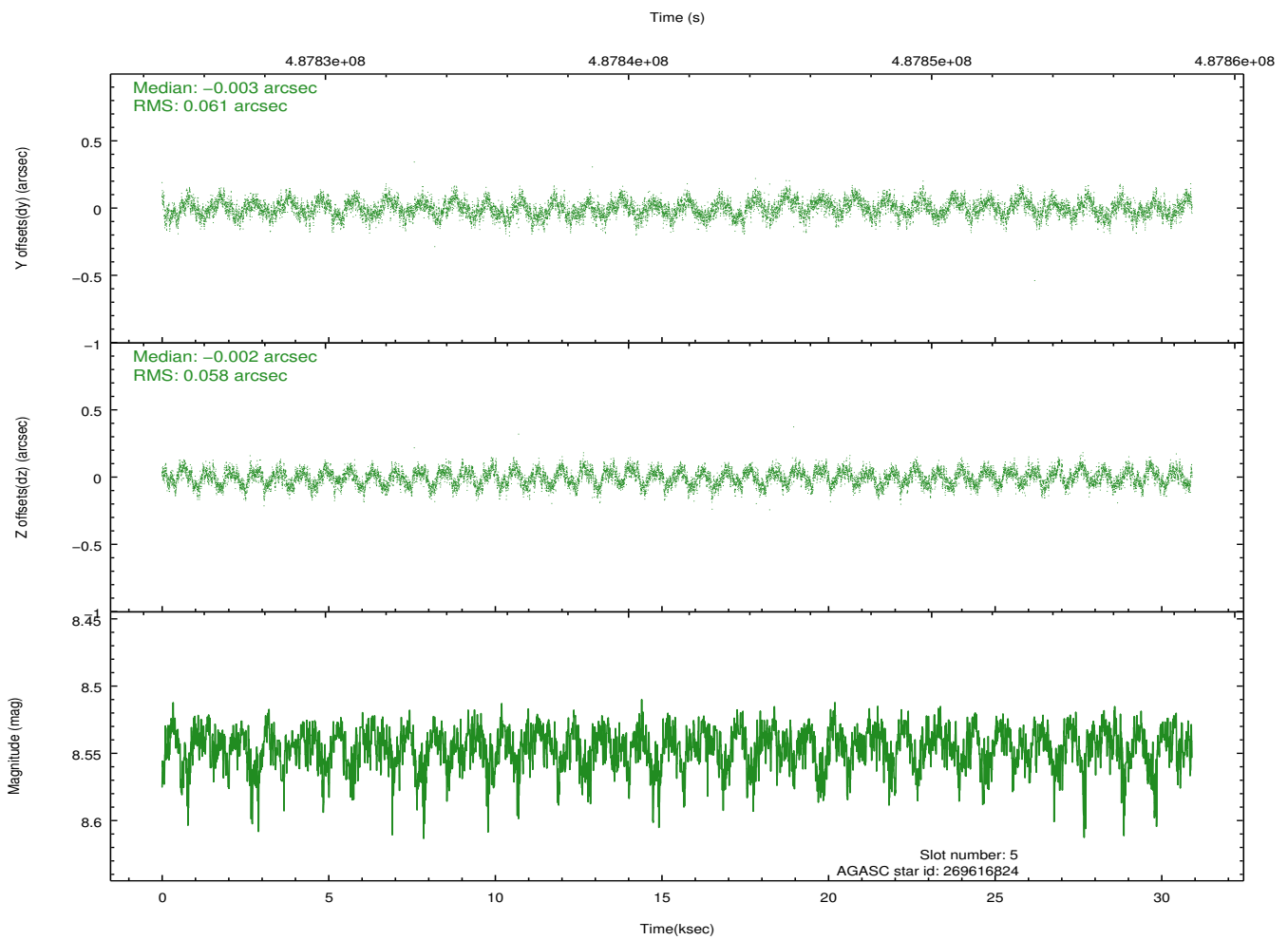
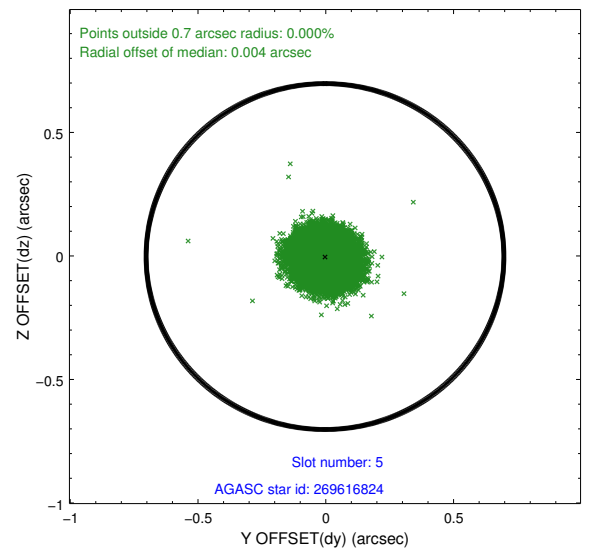
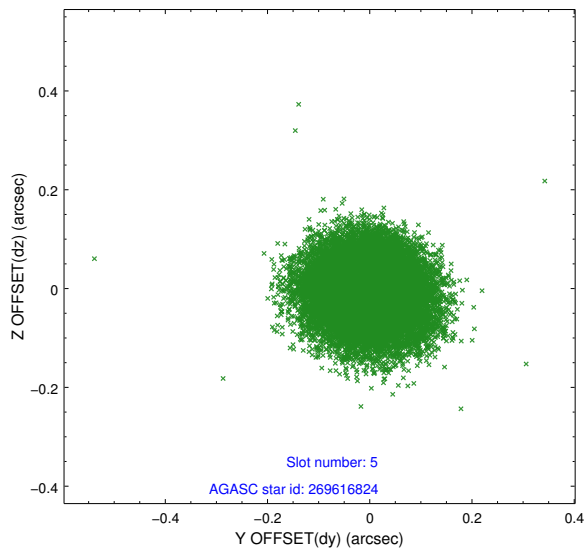
2.4.1 Slot 3



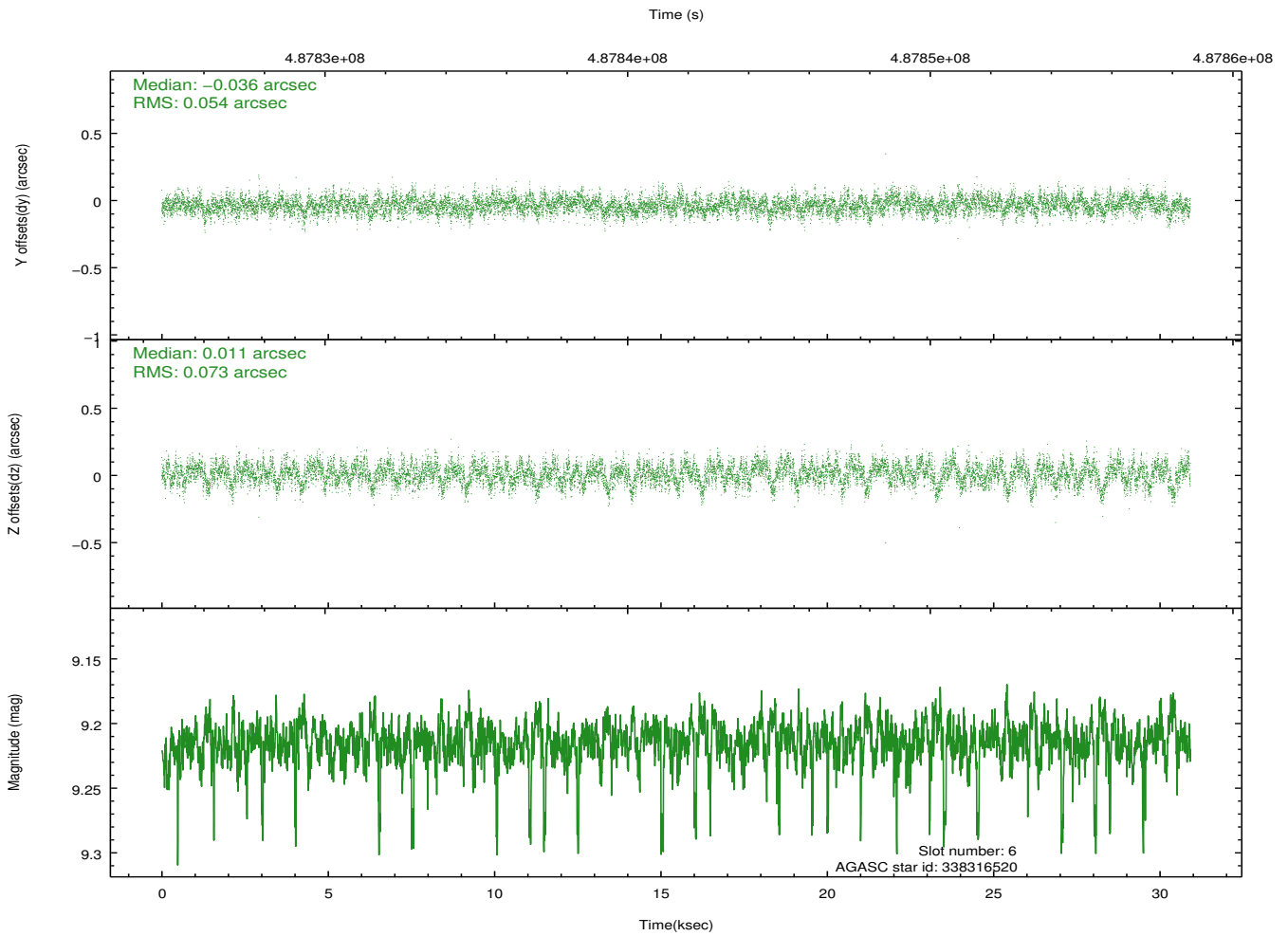
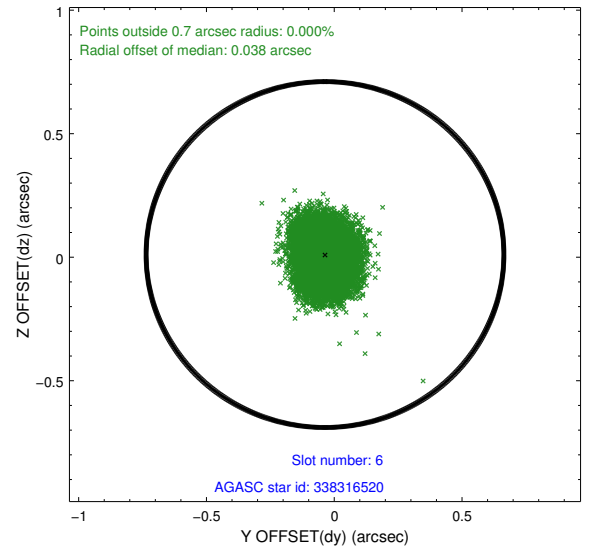
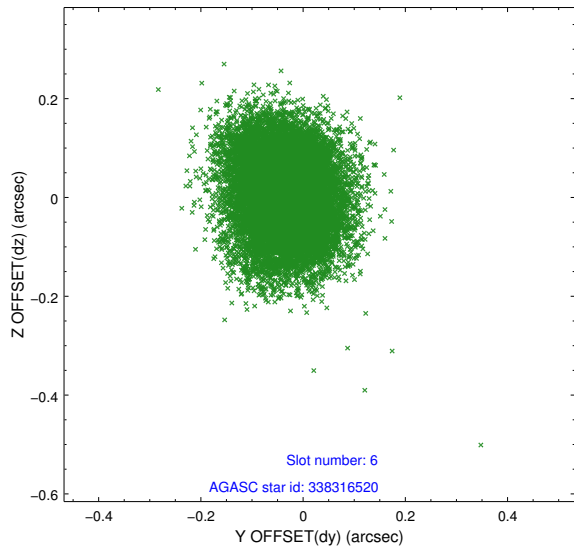
2.4.2 Slot 4



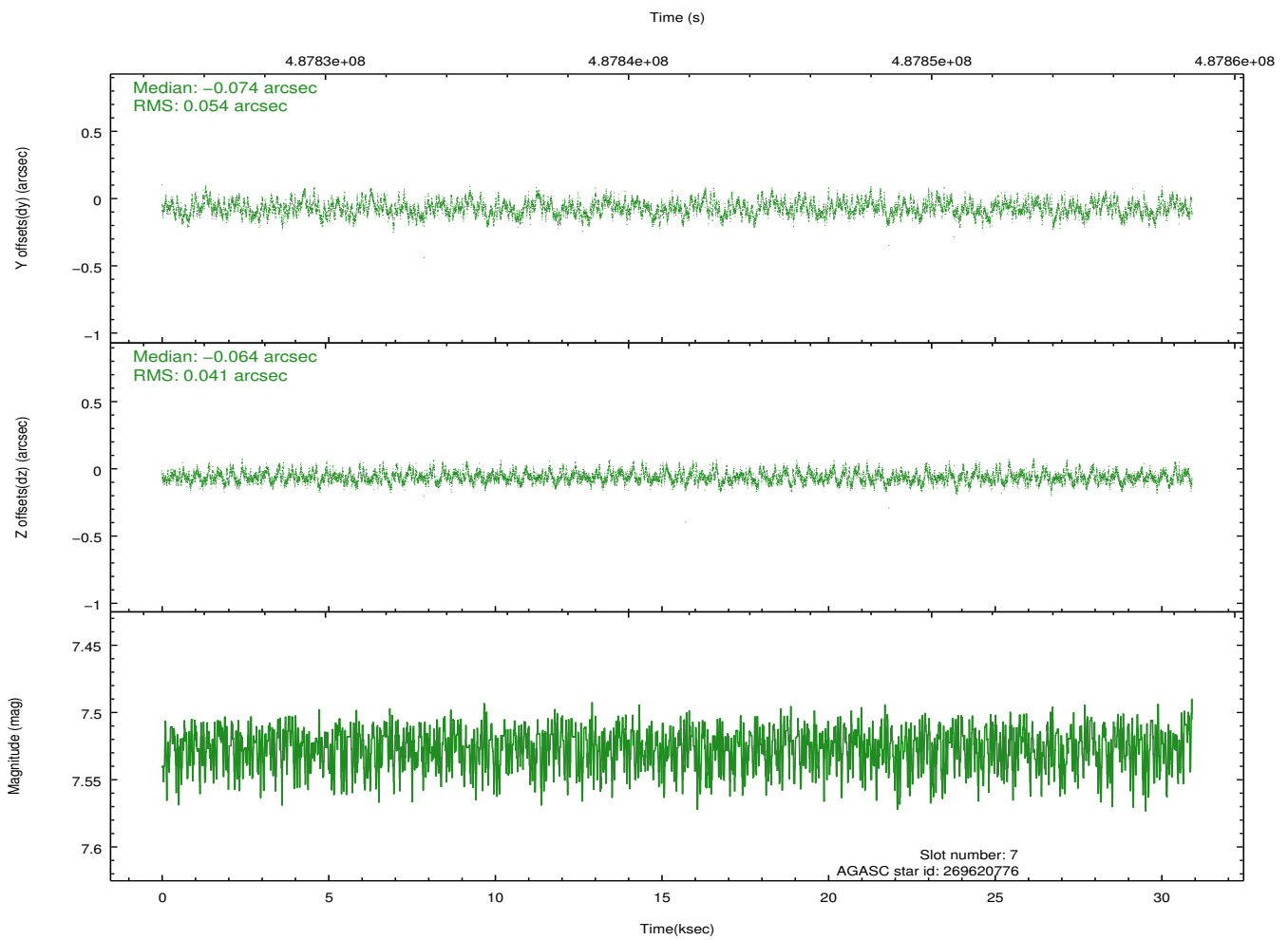
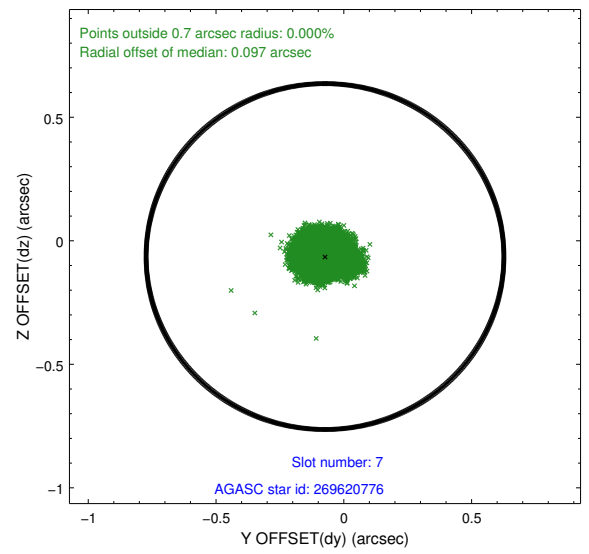
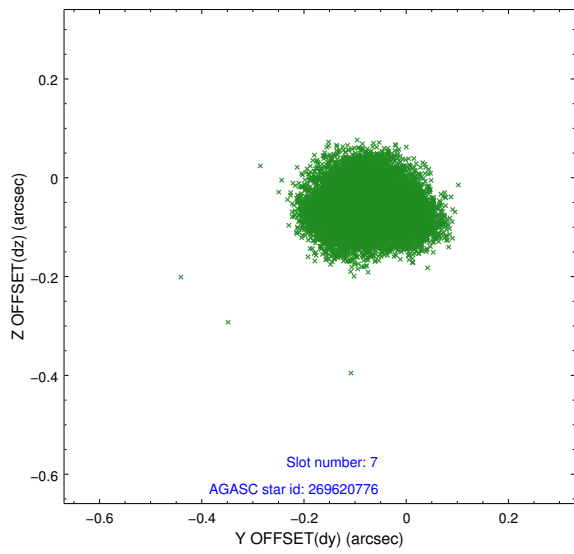
2.4.3 Slot 5



2.4.4 Slot 6

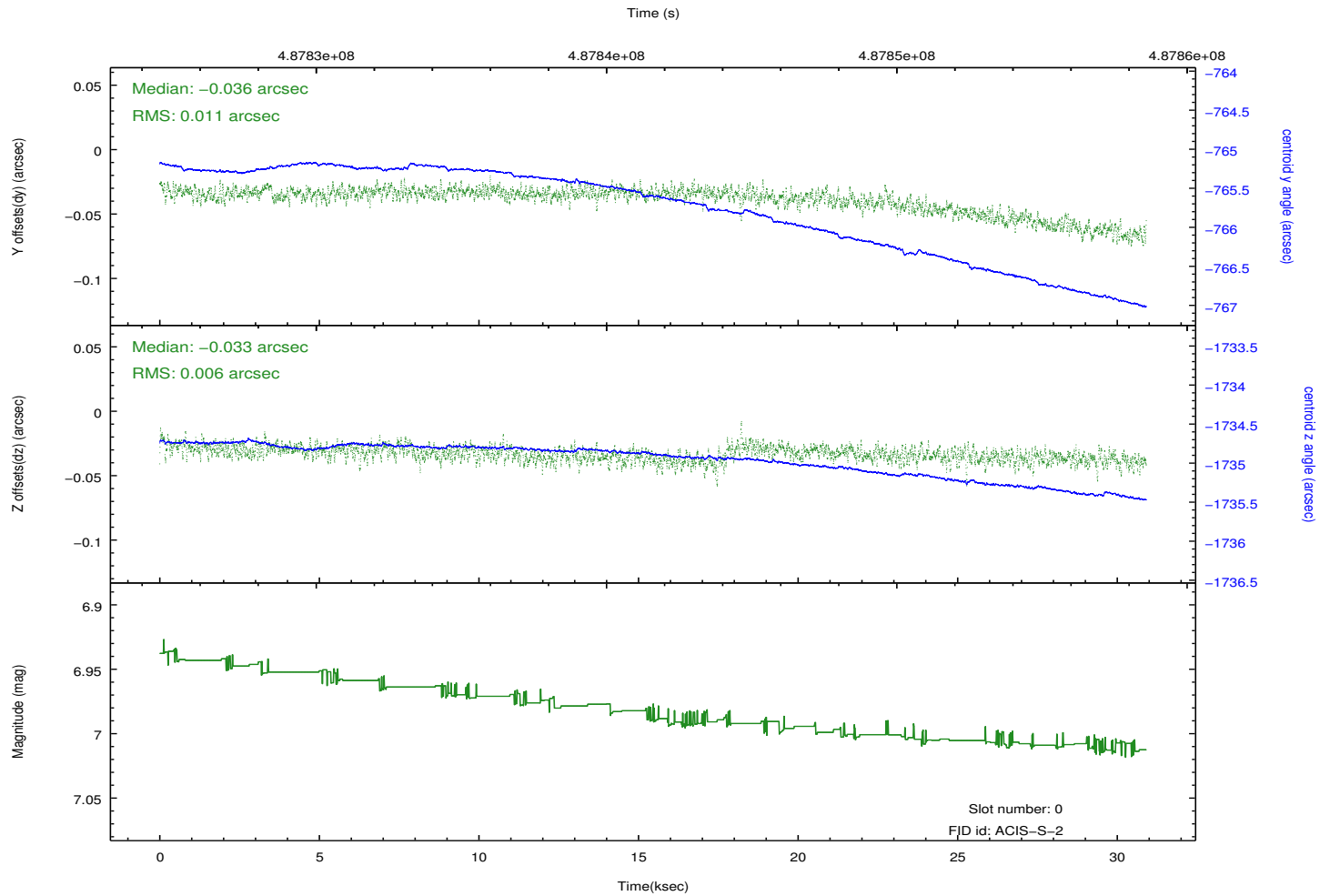
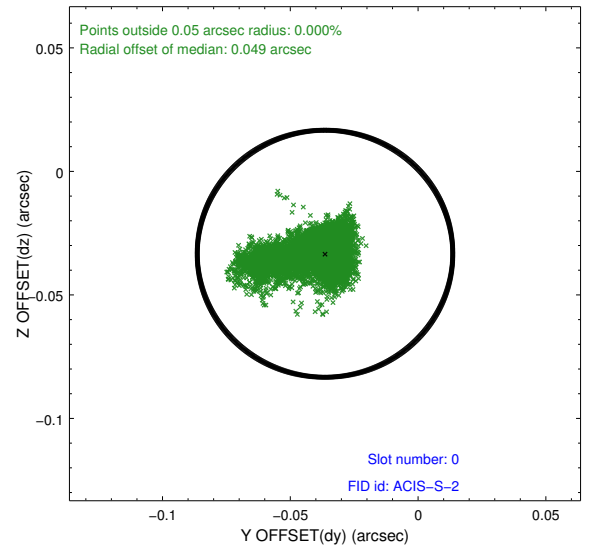
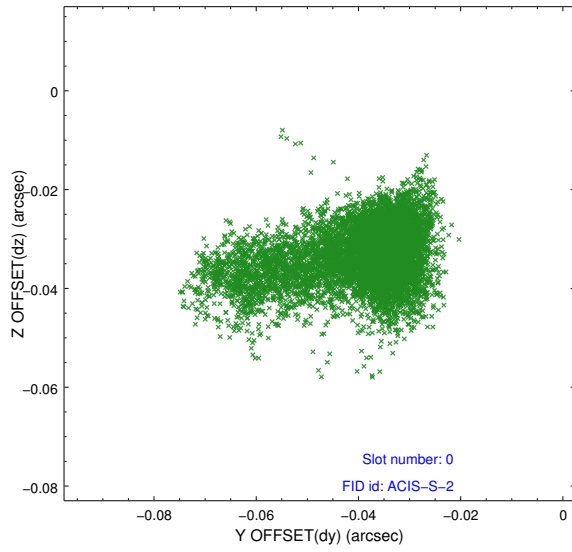


2.4.5 Slot 7

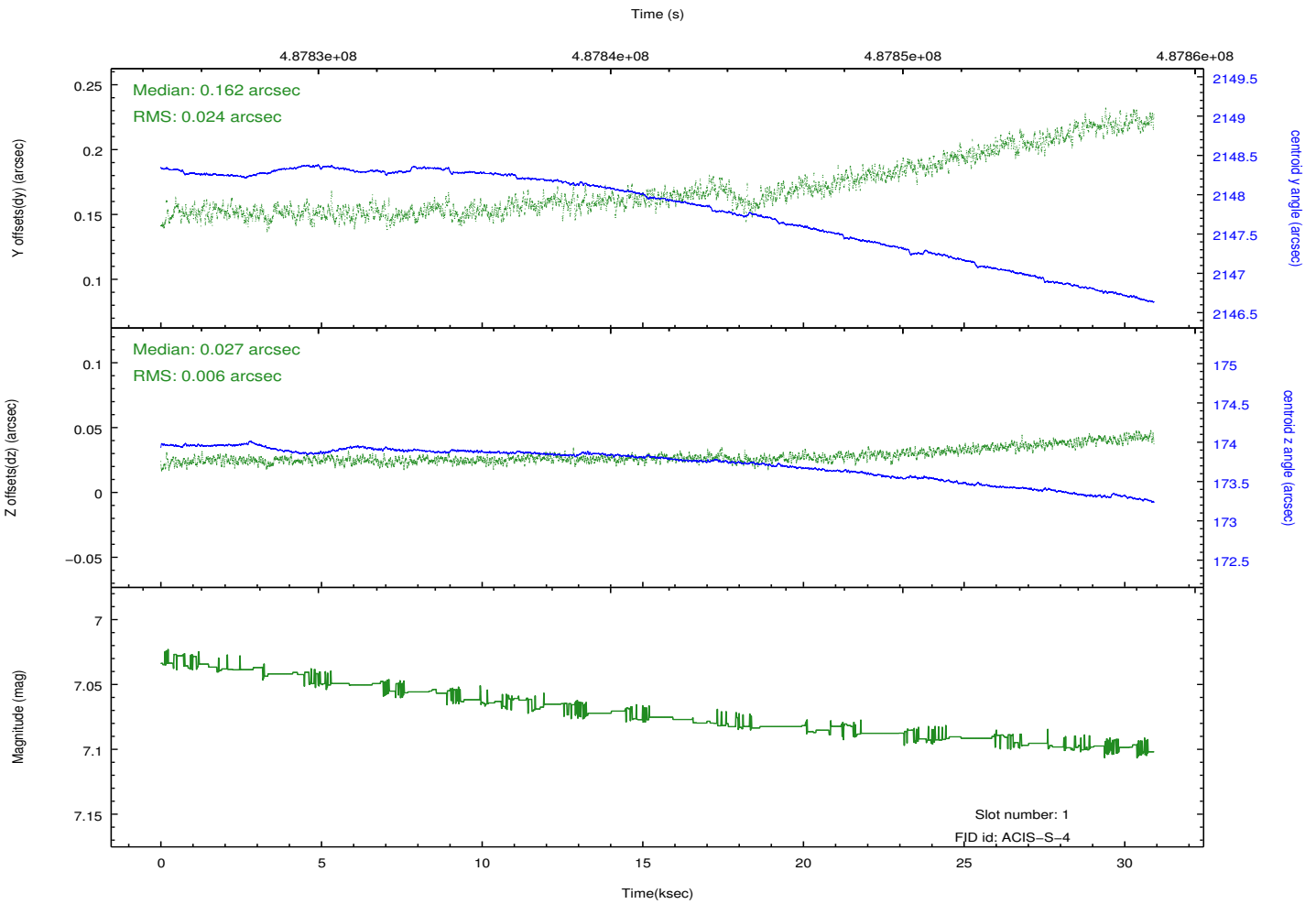
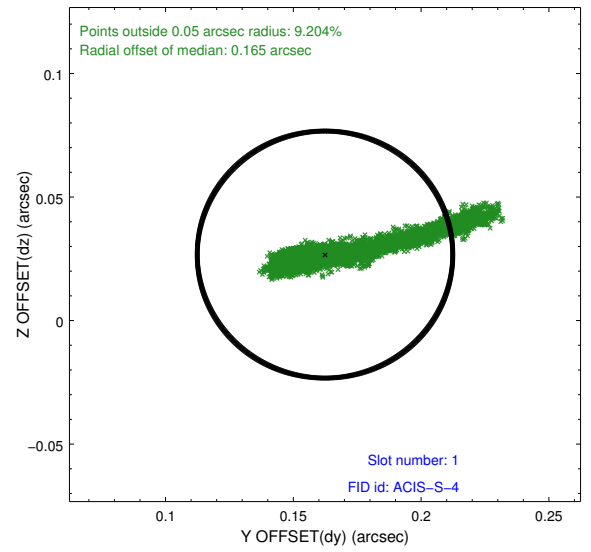
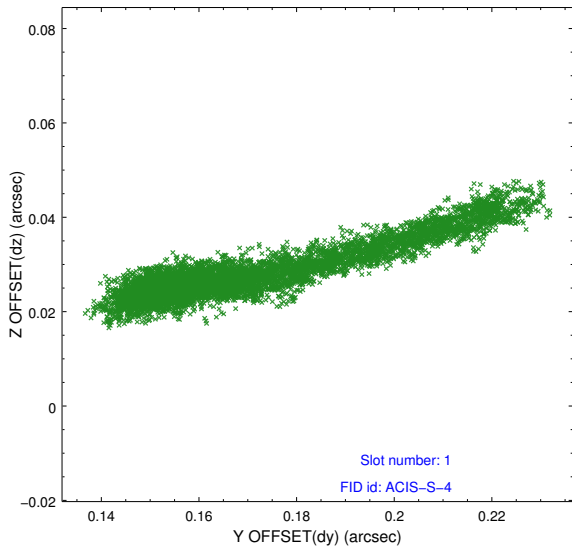


2.5 FID Slots

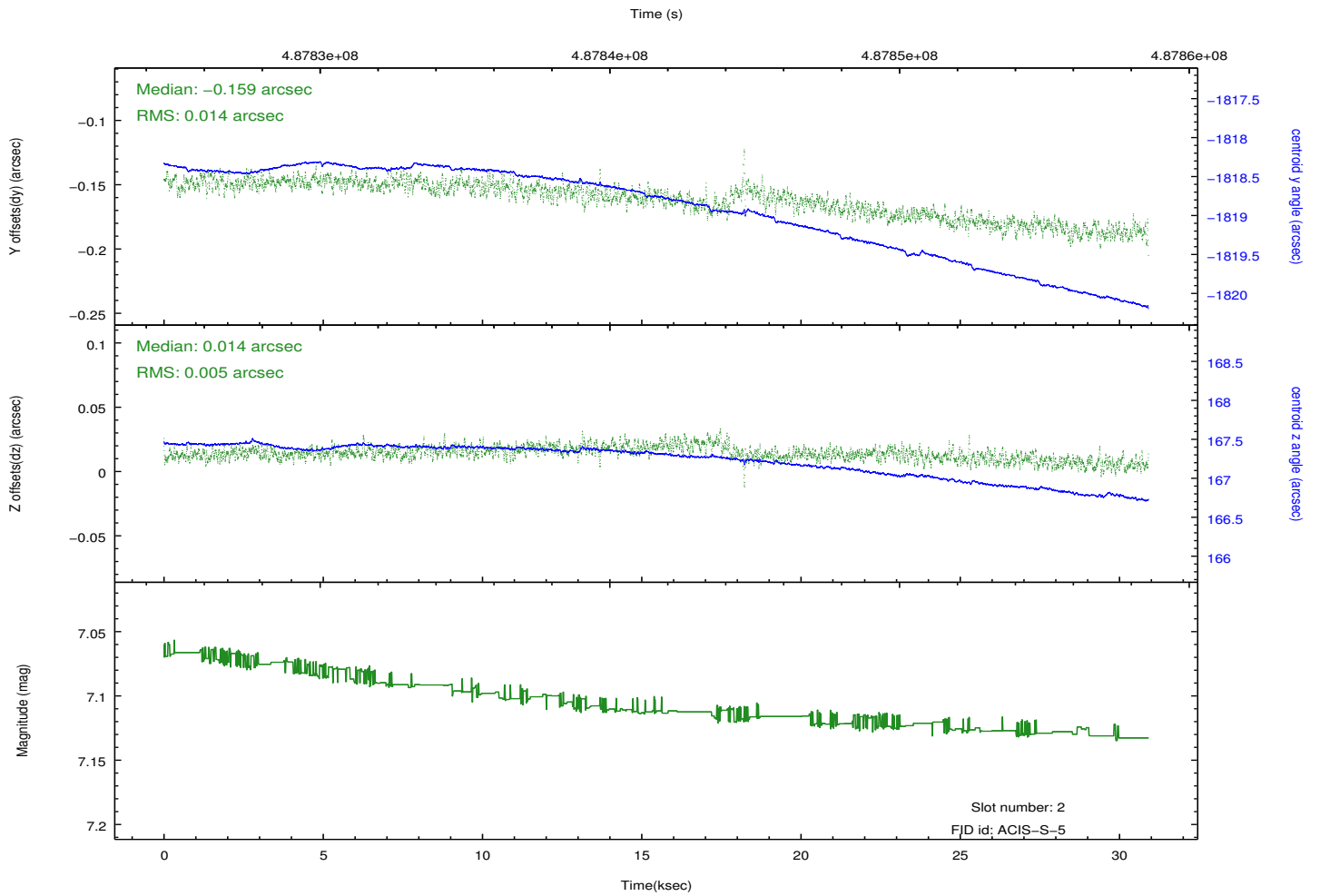
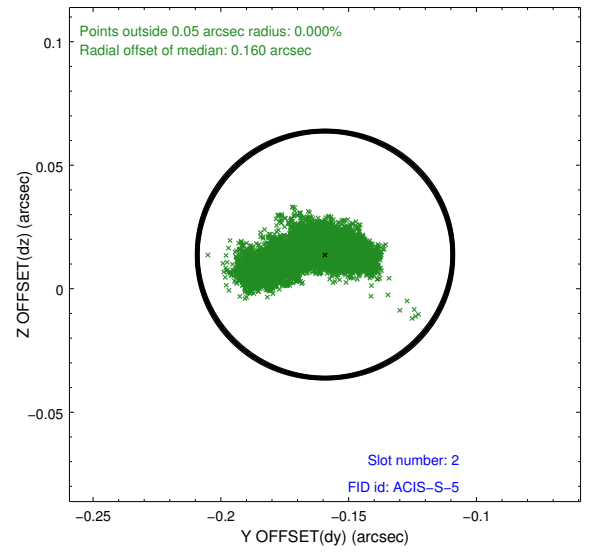
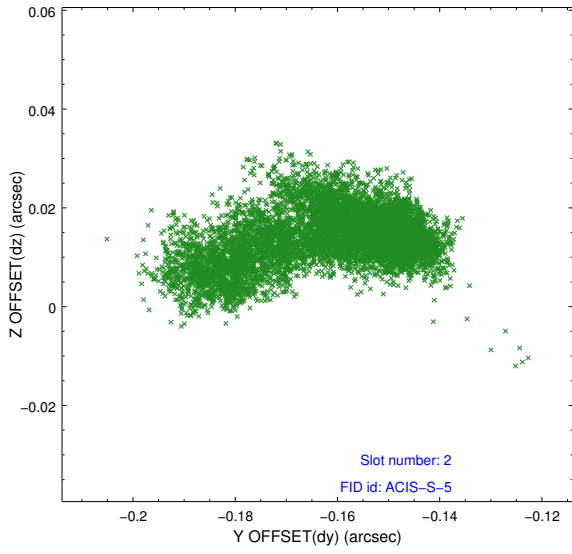
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.964799888432

A.2 Comments

Time constraint met.

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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.