

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16045 - L2 Version 2
Chandra X-Ray Center

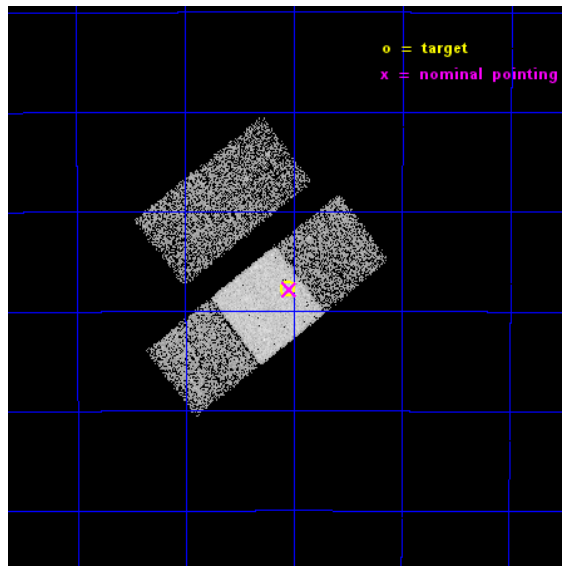
L2 Processing Date : Dec 11 2014

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1 Front

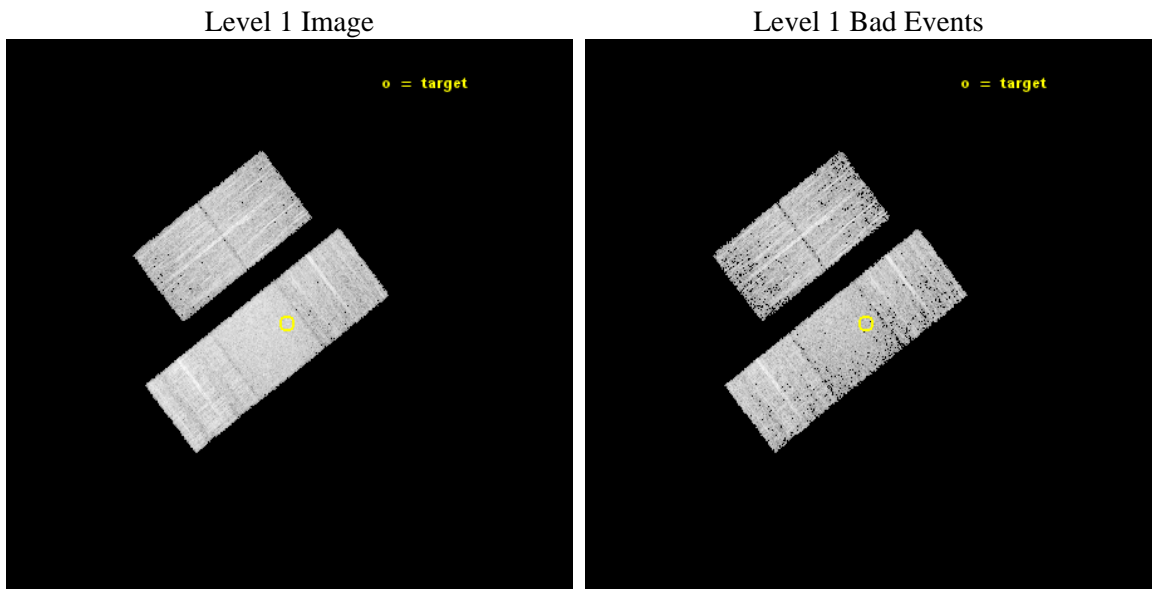
seq_num	702939	Sequence number
obs_id	16045	Observation id
title	Jet-driven outflows in radio galaxies	Proposal title
observer	Dr Martin Hardcastle	Principal investigator
object	PKS 2250-41	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.263333	Observer's specified target RA [deg]
dec_targ	-40.962833	Observer's specified target Dec [deg]
ra_nom	343.25959833112	Nominal RA [deg]
dec_nom	-40.96386807861	Nominal Dec [deg]
roll_nom	142.09422382576	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8366.9000643492	Sum of GTIs [s]
livetime	8257.5803553862	Livetime [s]
ontime2	8366.9000643492	Sum of GTIs [s]
ontime3	8366.9000643492	Sum of GTIs [s]
ontime6	8366.9000643492	Sum of GTIs [s]
ontime7	8366.9000643492	Sum of GTIs [s]
ontime8	8366.9000643492	Sum of GTIs [s]
l2events	40946	Number of level 2 events



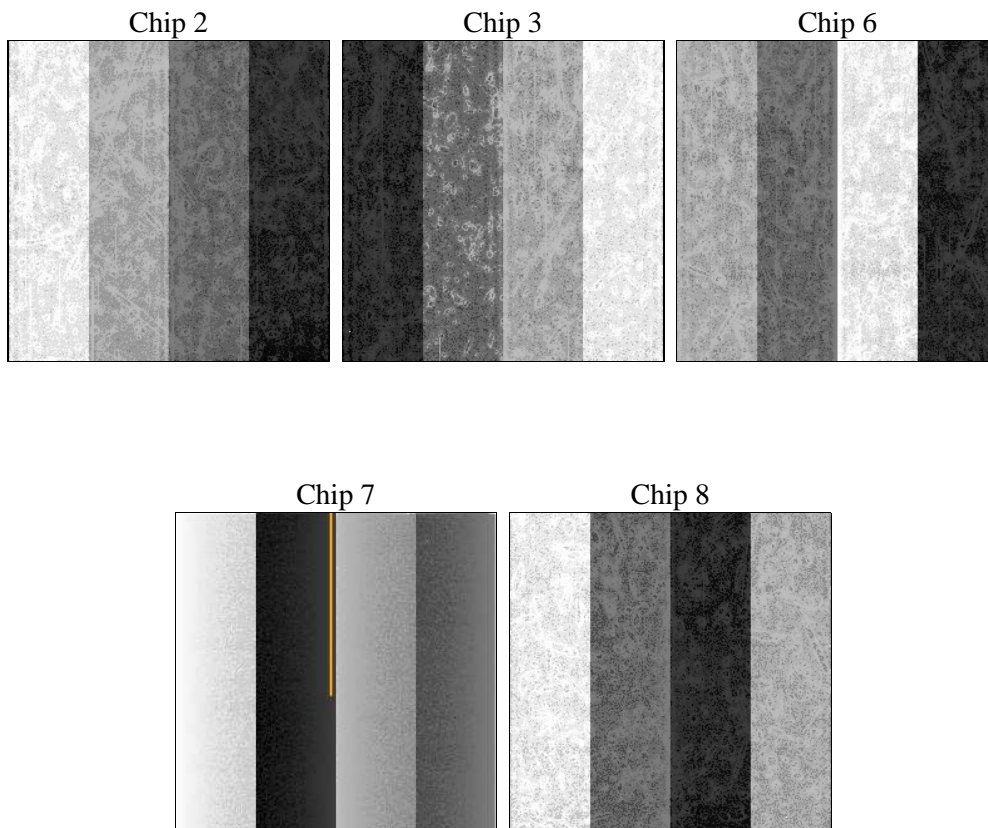
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8300.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	8366.9000643492	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	8366.9000643492	Sum of GTIs [s]
date	2014-12-11T05:32:18	Date and time of file creation	ontime3	8366.9000643492	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8366.9000643492	Sum of GTIs [s]
			ontime7	8366.9000643492	Sum of GTIs [s]
			ontime8	8366.9000643492	Sum of GTIs [s]
			l1events	230051	Number of level 1 events

2.1.4 Events

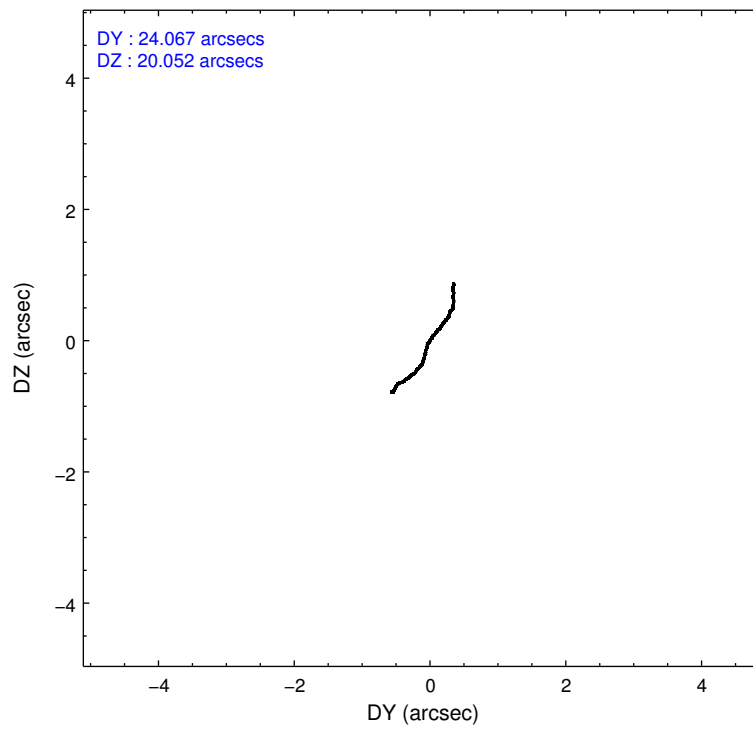
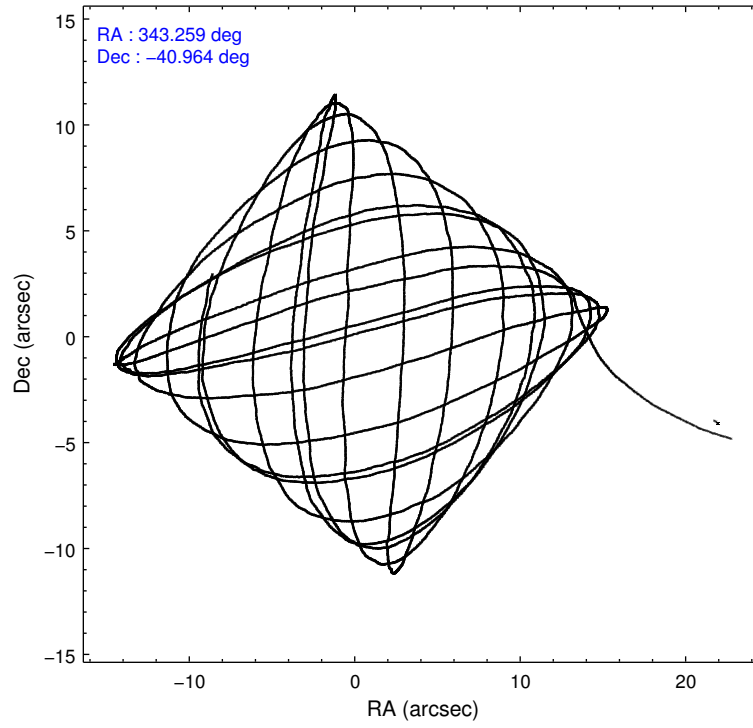
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	38417	38065	39064	55381	59124
rejected events	33926	33588	34141	31333	41334
rejected %	88%	88%	87%	56%	69%

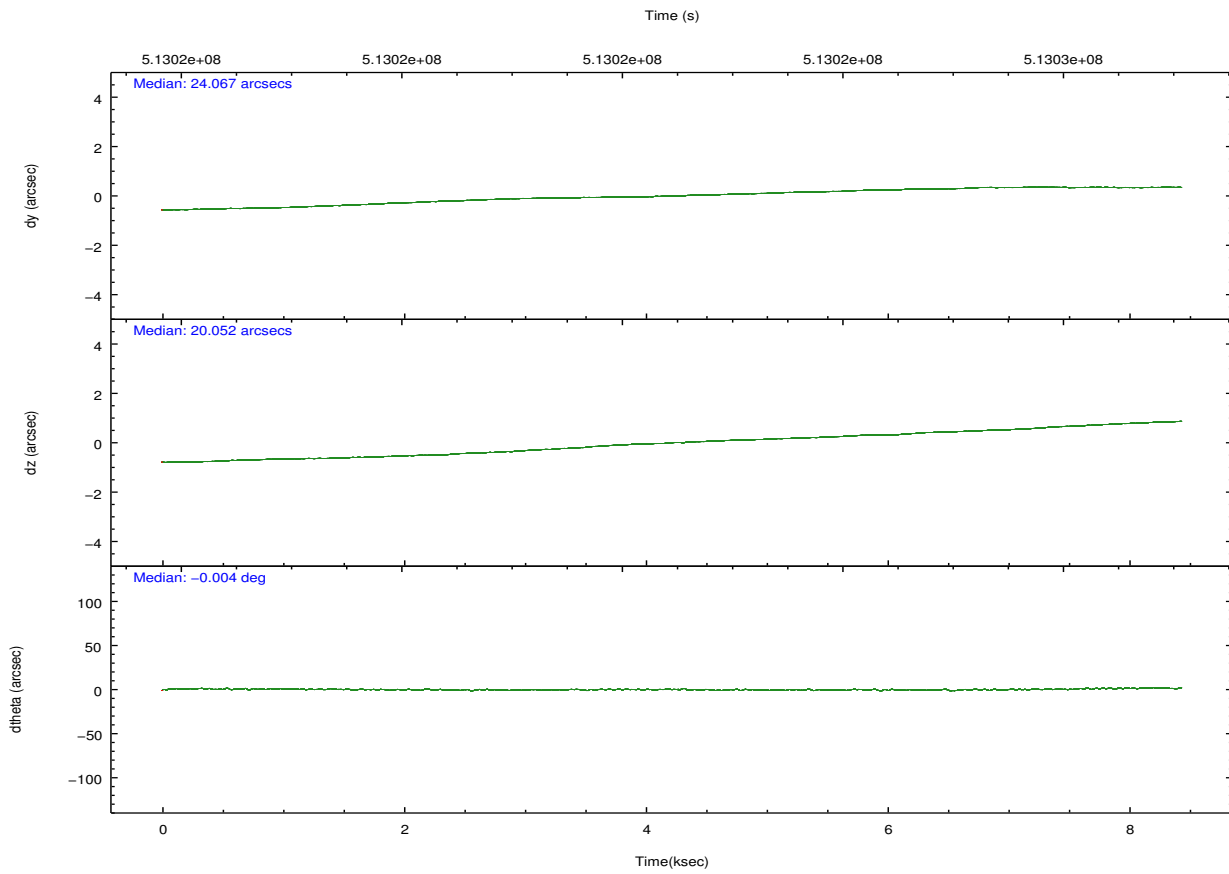
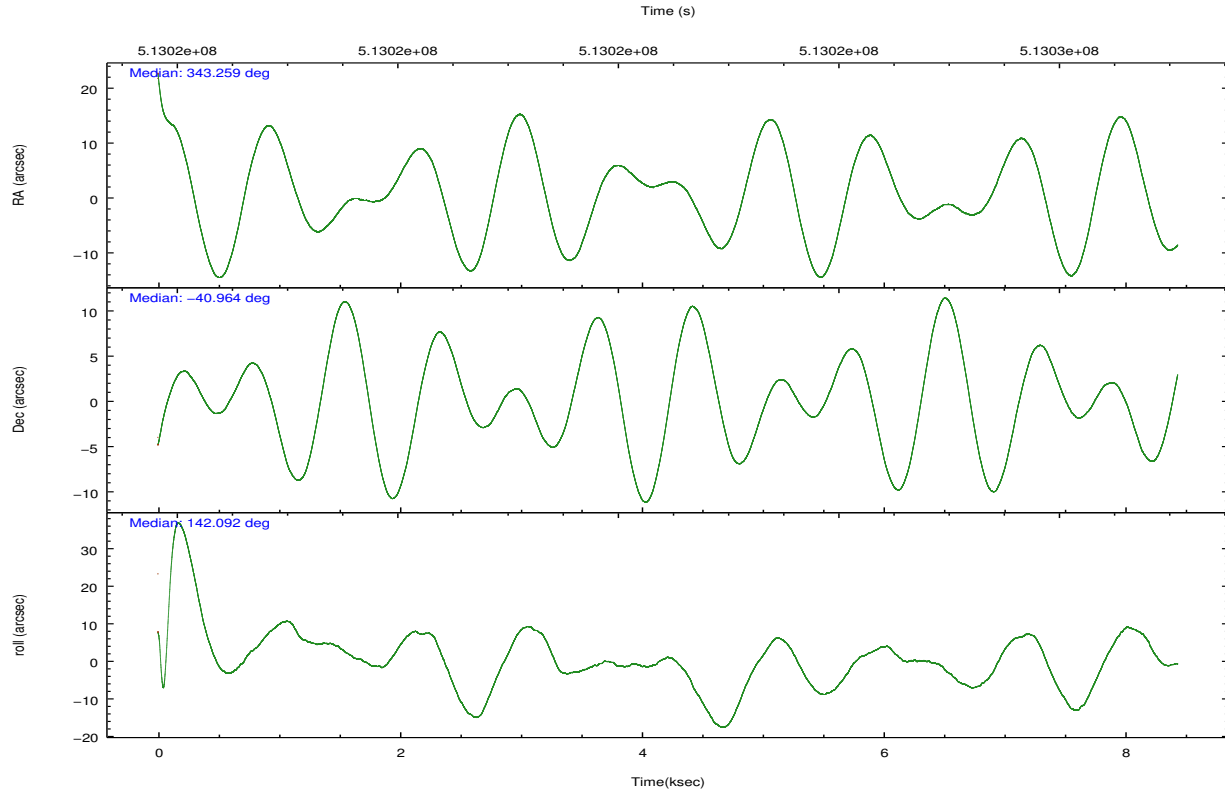
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1660	1567	1669	2130	5415
	4%	4%	4%	3%	9%
grade 1 events	14	20	20	77	37
	0%	0%	0%	0%	0%
grade 2 events	1048	1009	1107	4830	3854
	2%	2%	2%	8%	6%
grade 3 events	452	467	497	2090	2080
	1%	1%	1%	3%	3%
grade 4 events	431	485	517	2102	2000
	1%	1%	1%	3%	3%
grade 5 events	1799	2095	2108	5829	3109
	4%	5%	5%	10%	5%
grade 6 events	903	951	1138	12907	4444
	2%	2%	2%	23%	7%
grade 7 events	32110	31471	32008	25416	38185
	83%	82%	81%	45%	64%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	343.295485	343.2595983311211	CCD I2 on	O3	Y
[deg] Pointing Dec	-40.967233	-40.96386807860977	CCD I3 on	O2	Y
[deg] Pointing Roll	141.961194	142.0942238257638	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	O1	Y
[s] Observation start time (MET)	513018368.184000	513017366.0271	CCD S5 on	N	N
Observation start date	2014-04-04T17:05:01	2014-04-04T16:49:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	513026668.184000	513028010.14019	On-chip summing requested	N	N
Observation end date	2014-04-04T19:23:21	2014-04-04T19:46:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





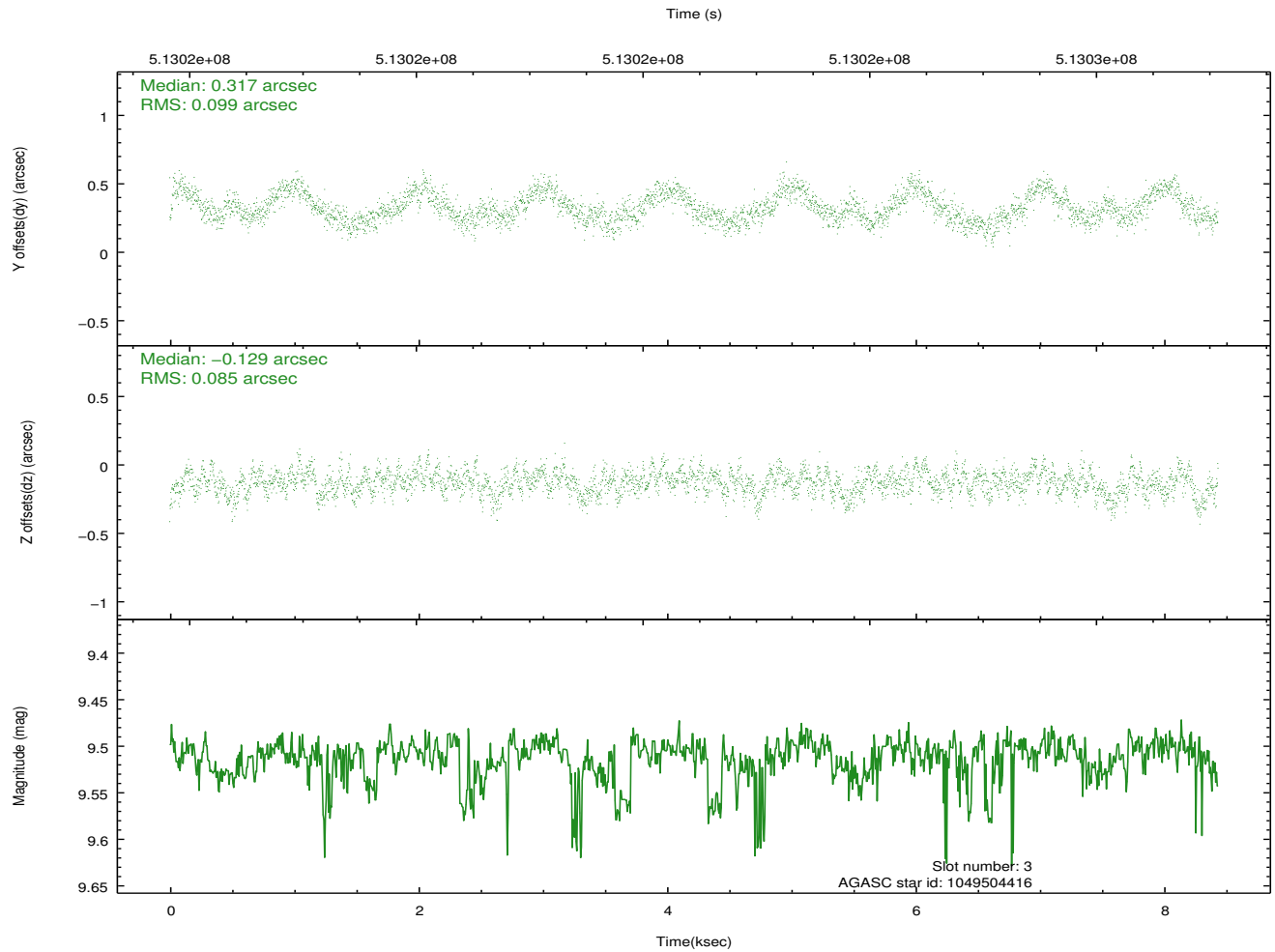
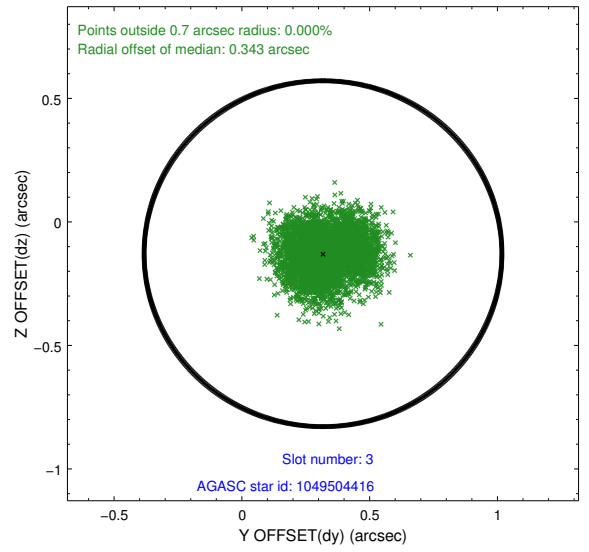
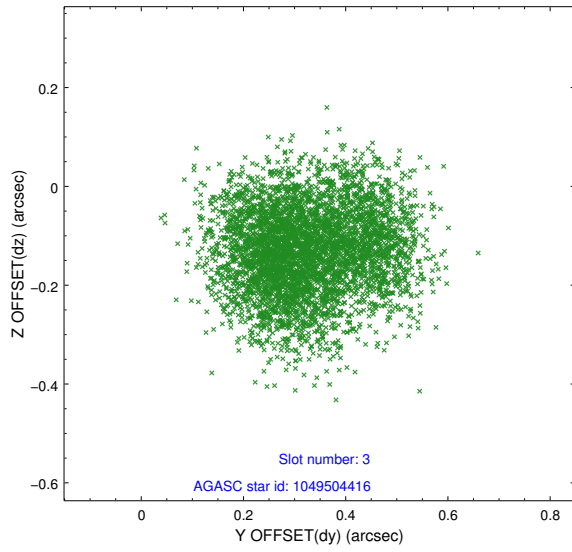
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	2058	-0.163	-0.006	0.015	0.033	0.000000	0.000000	-777.42	-1741.55
1	FID		ACIS-S-4	7.04	2058	0.334	0.080	0.008	0.015	0.000000	0.000000	2136.04	166.35
2	FID		ACIS-S-5	7.06	2057	-0.204	-0.066	0.015	0.030	0.000000	0.000000	-1829.47	160.61
3	GUIDE	used	1049504416	9.51	4115	0.317	-0.129	0.144	0.217	343.287611	-41.389079	-918.22	1209.91
4	GUIDE	used	1049632784	8.35	4114	0.228	0.288	0.106	0.159	343.716437	-40.670072	-247.56	-1547.91
5	GUIDE	used	1049634344	6.63	4116	0.152	0.382	0.087	0.137	343.976575	-41.096753	-1747.13	-766.51
6	GUIDE	used	1049498176	10.35	4075	-0.570	-0.290	0.311	0.471	342.364713	-41.180801	1503.57	2169.89
7	GUIDE	used	1049504712	10.16	4080	-0.136	-0.280	0.217	0.332	342.558405	-40.961899	1583.88	1227.84

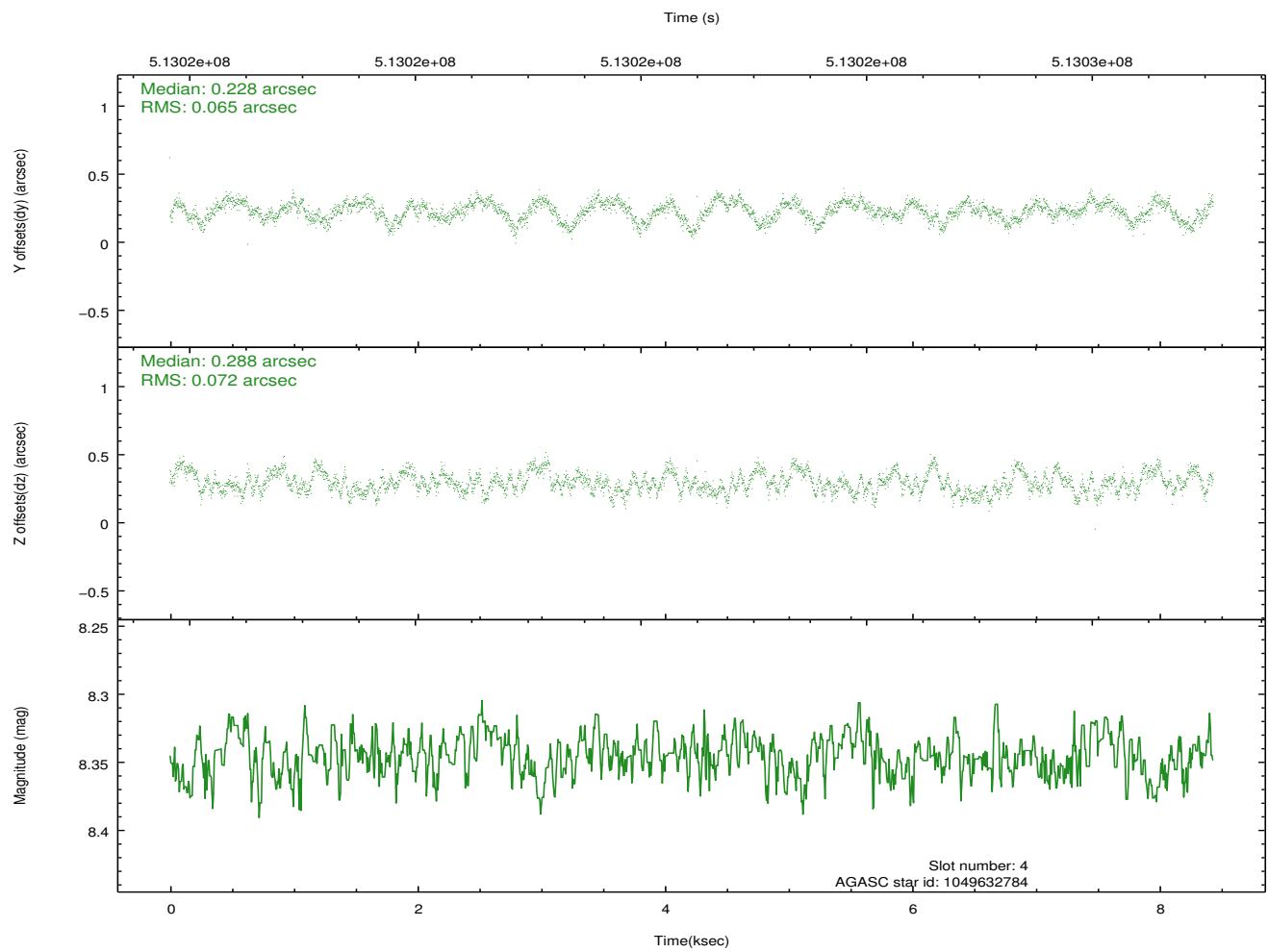
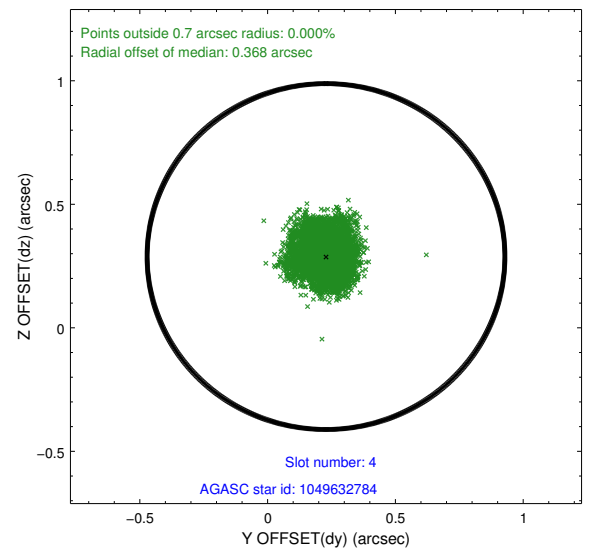
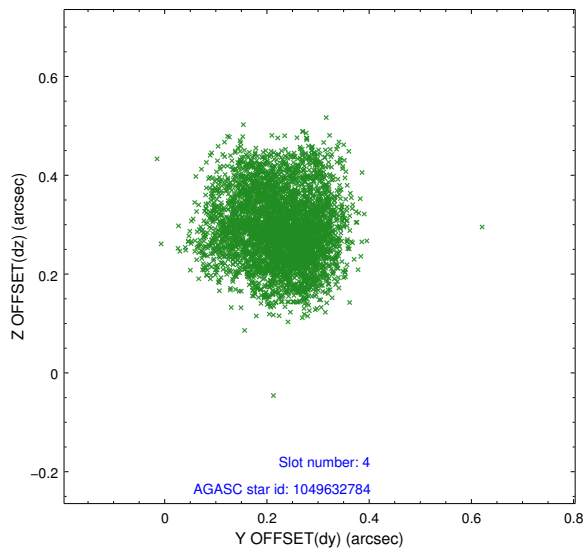
∞

2.4 Star Slots

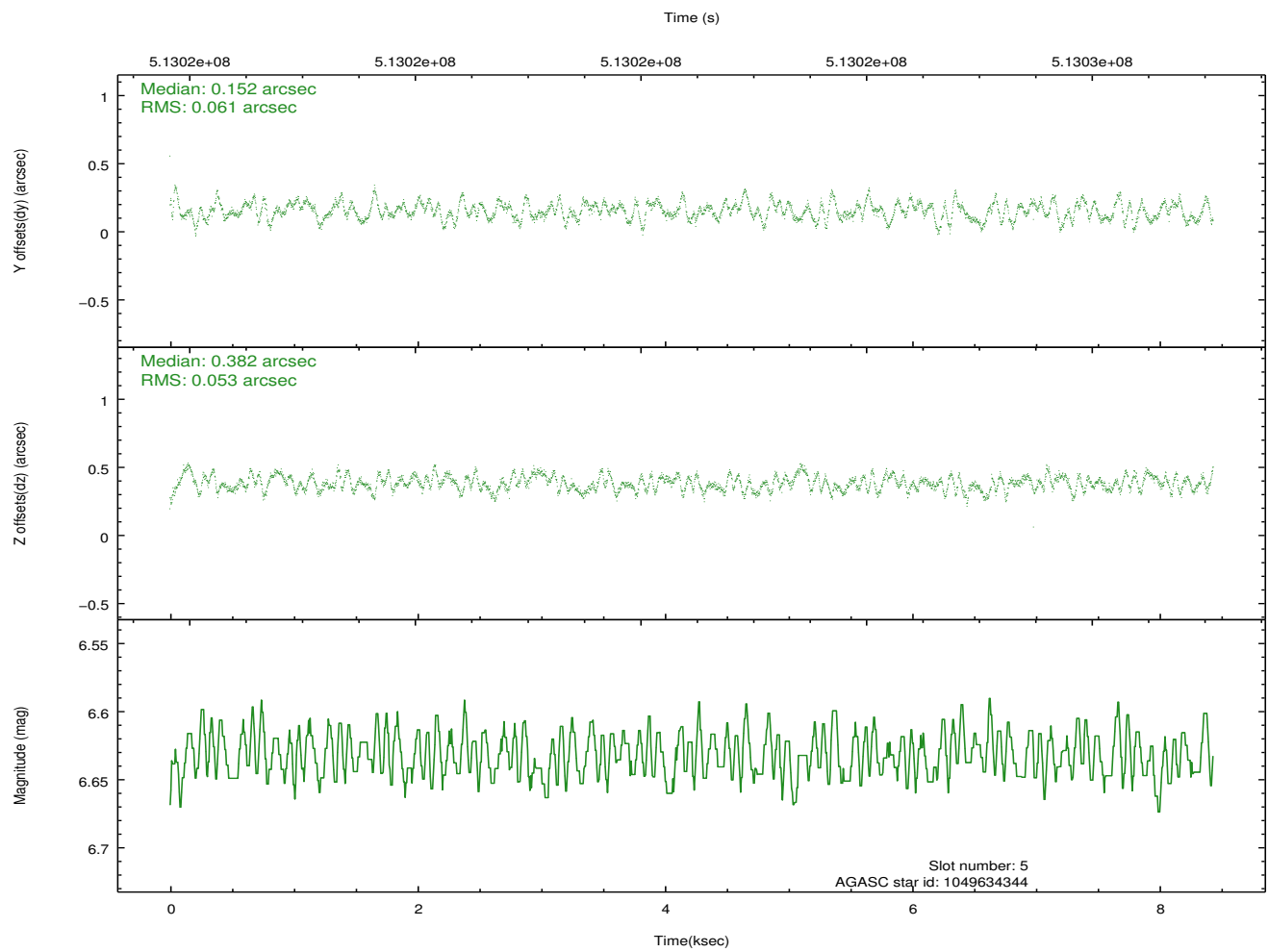
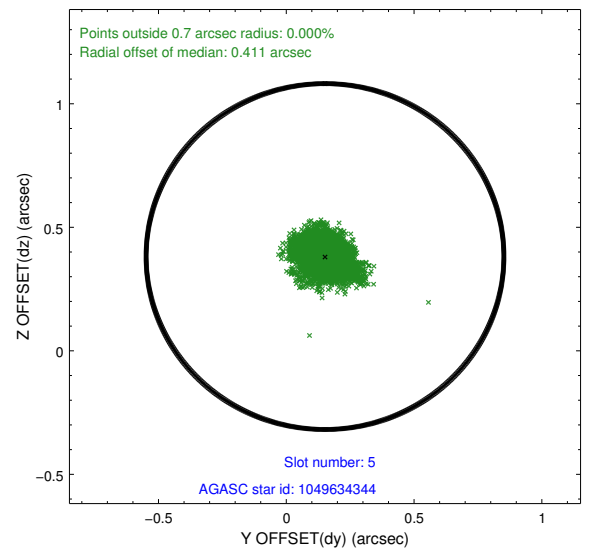
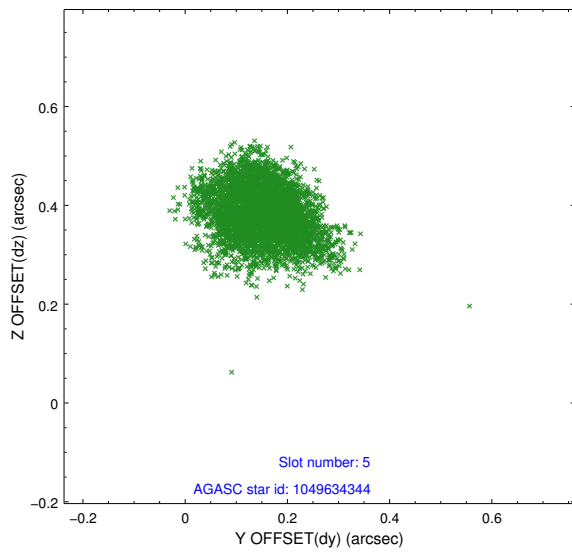
2.4.1 Slot 3



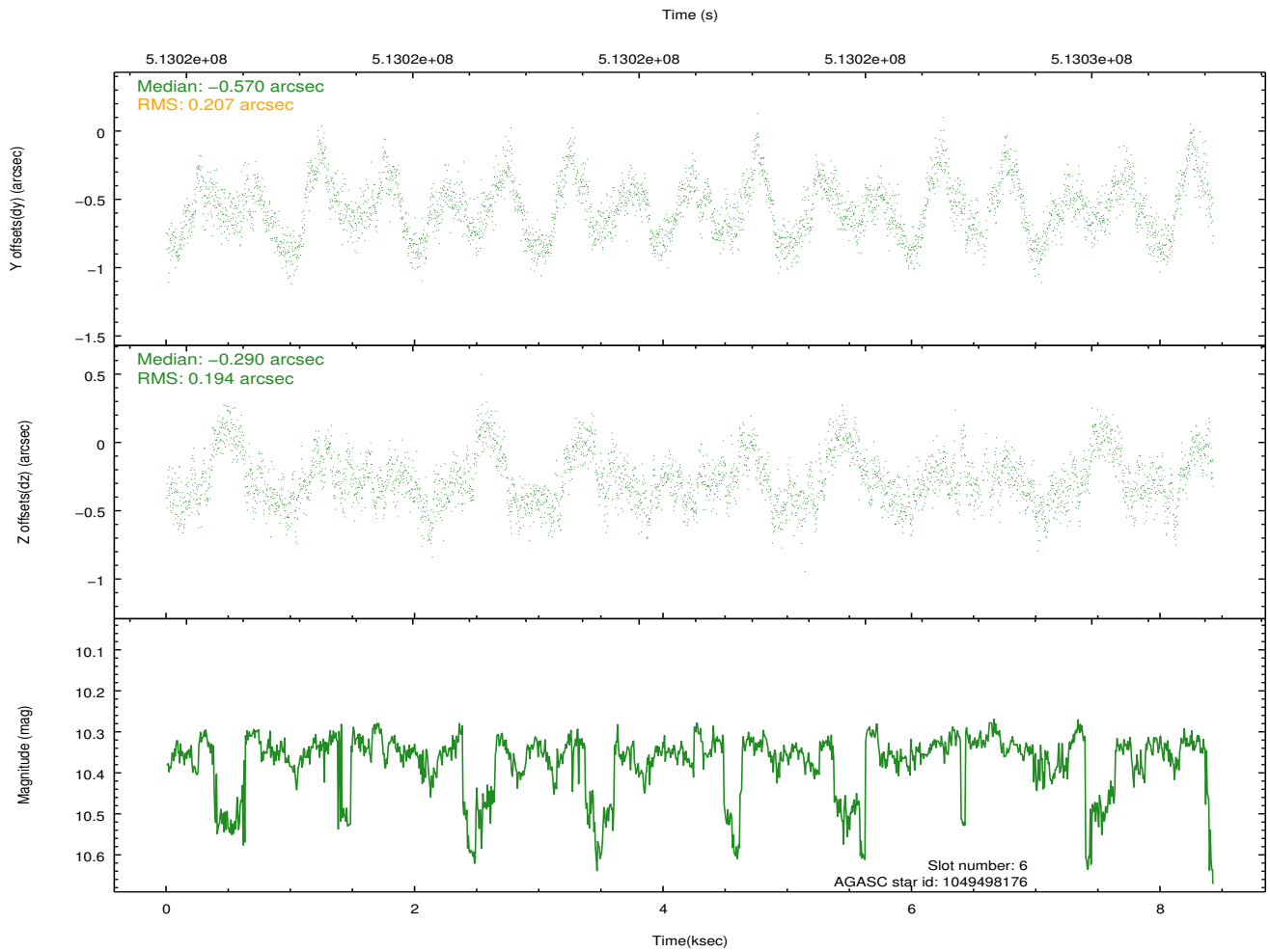
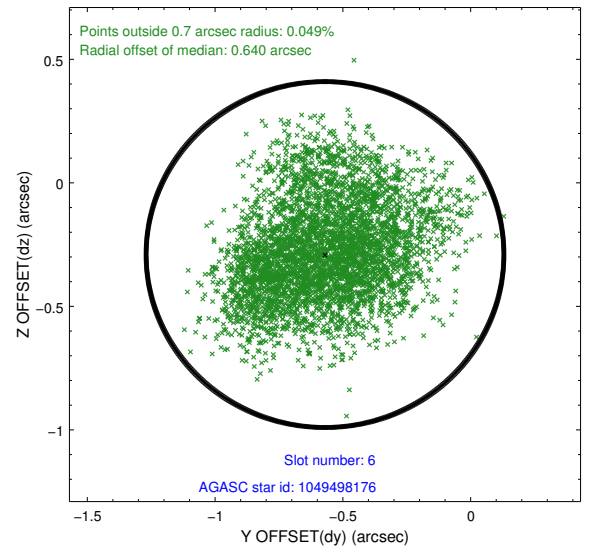
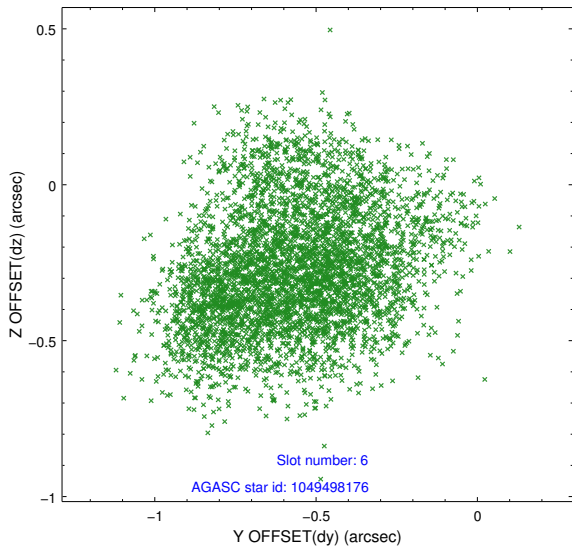
2.4.2 Slot 4



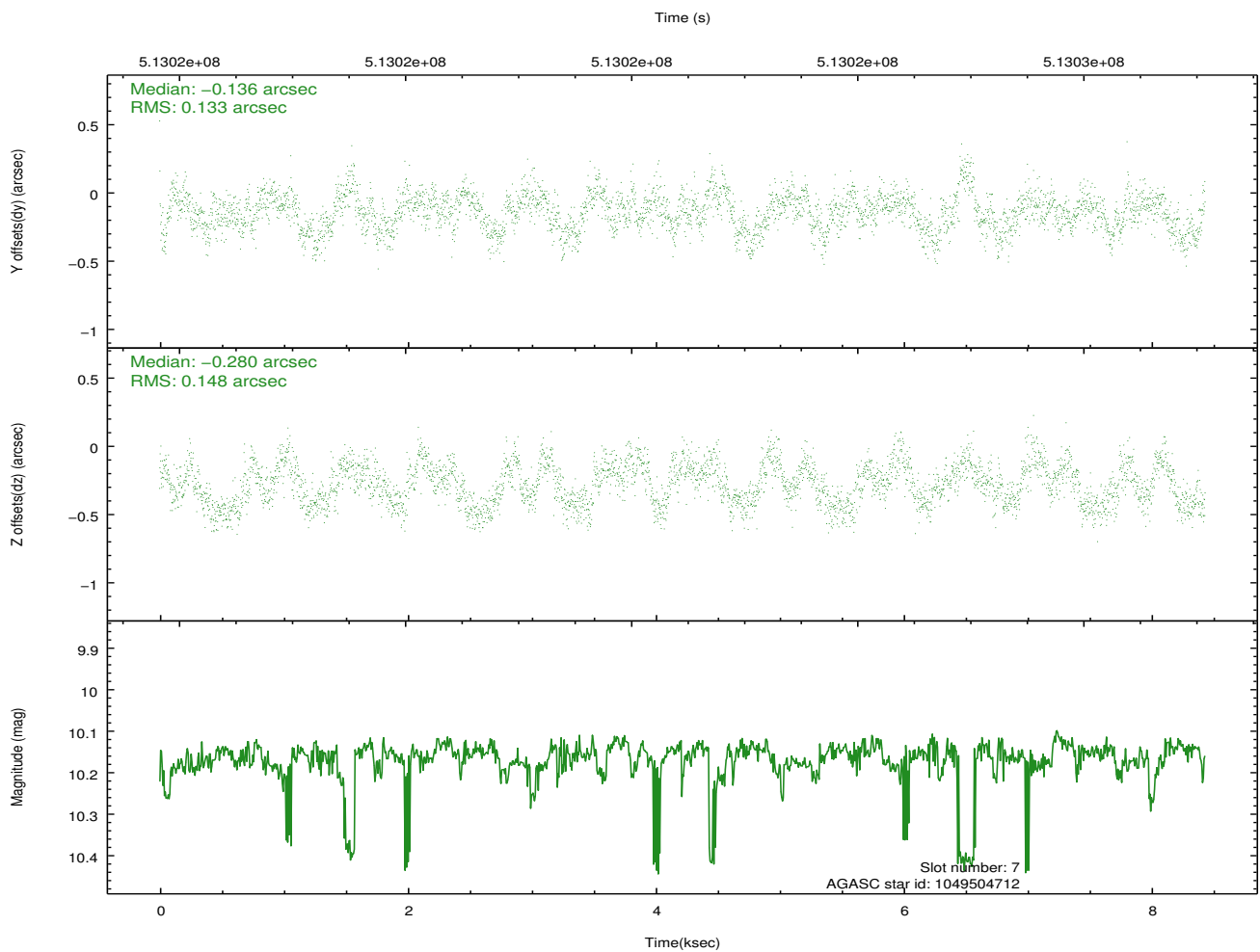
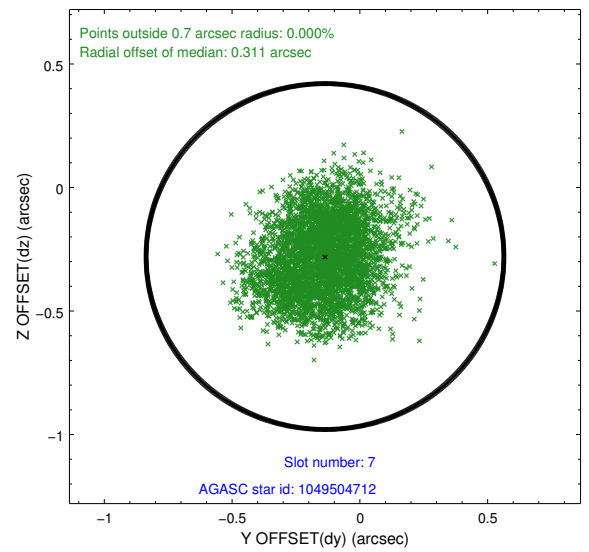
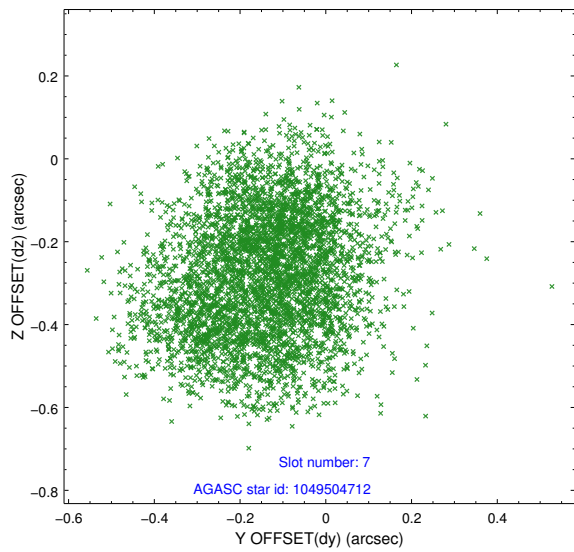
2.4.3 Slot 5



2.4.4 Slot 6

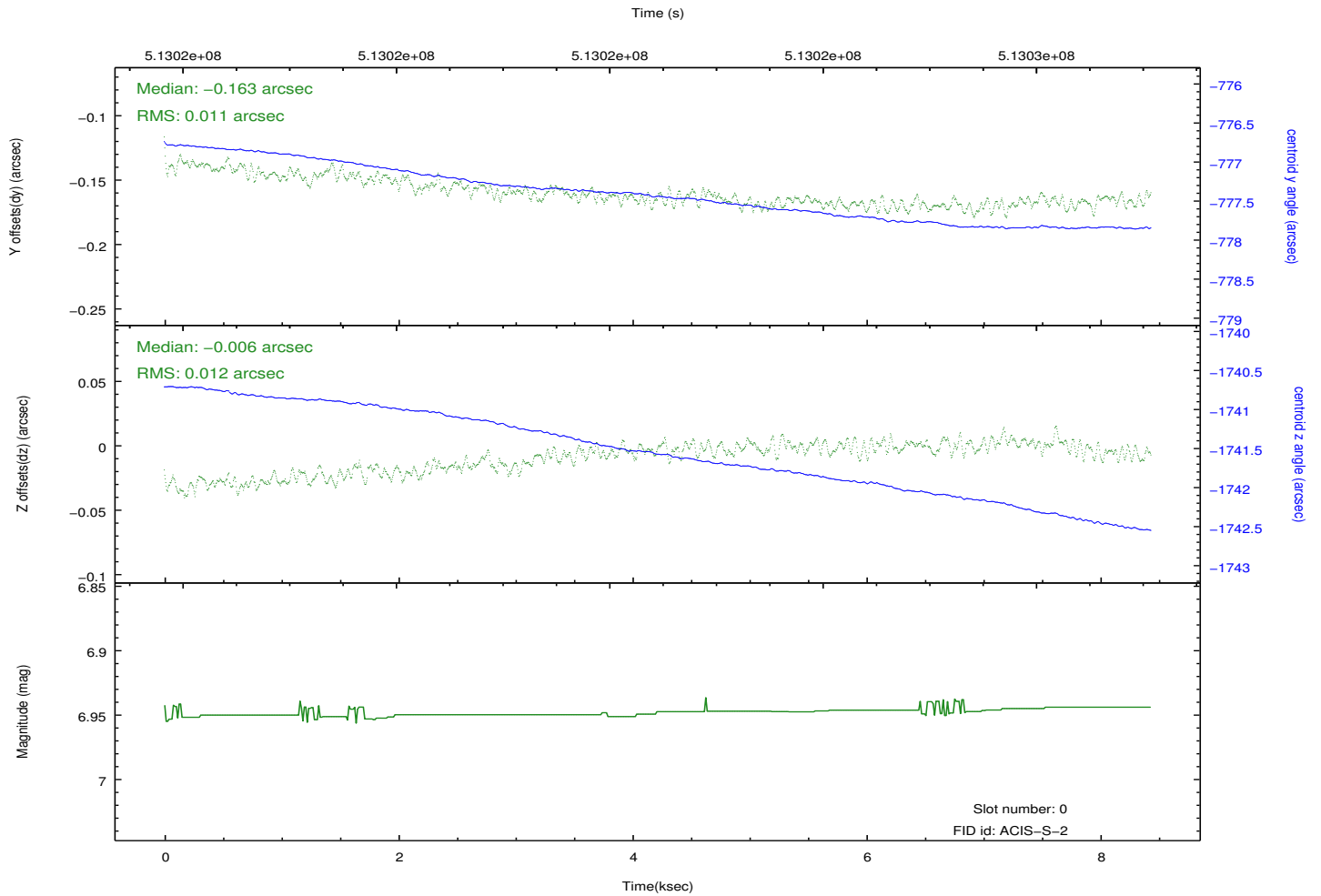
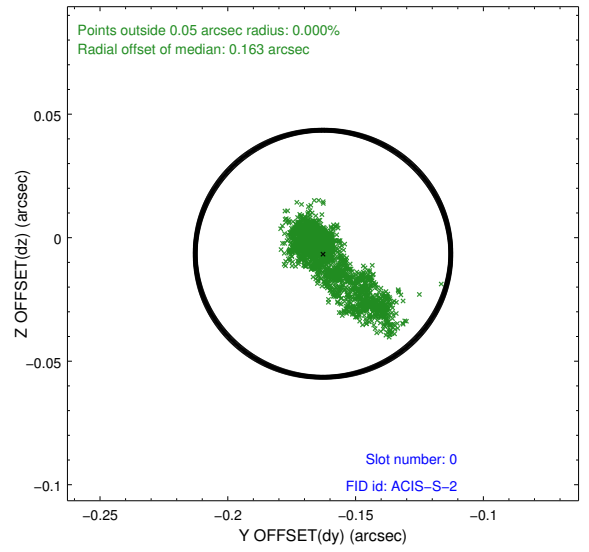
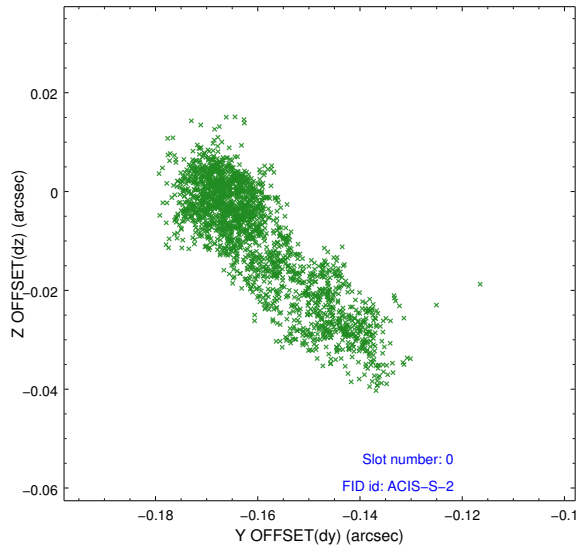


2.4.5 Slot 7

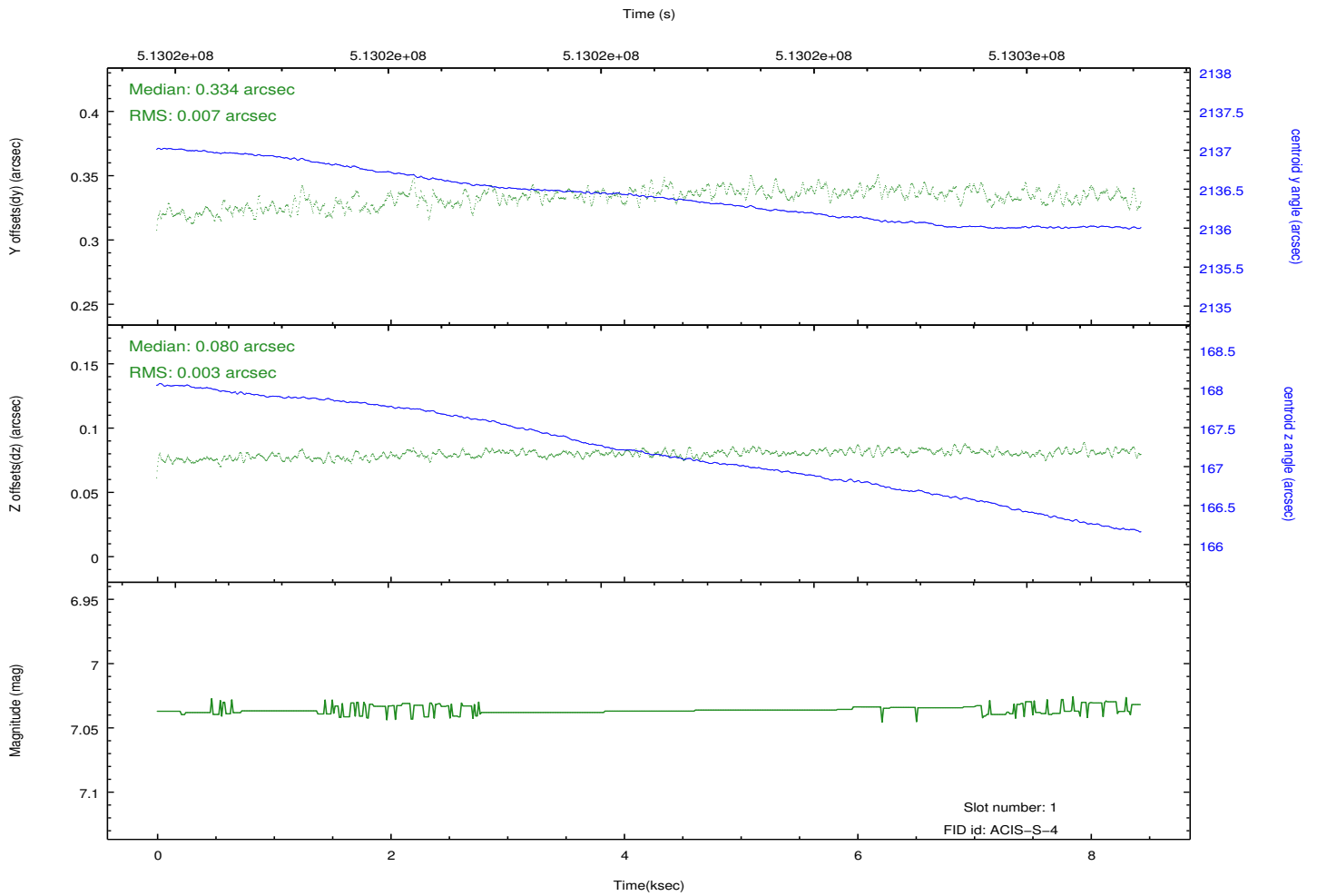
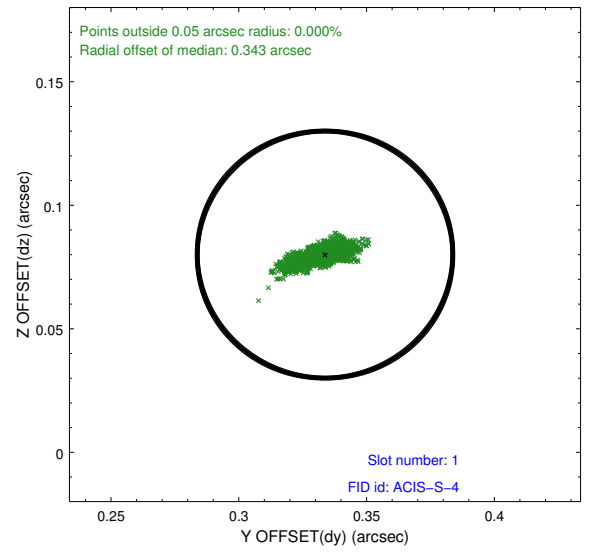
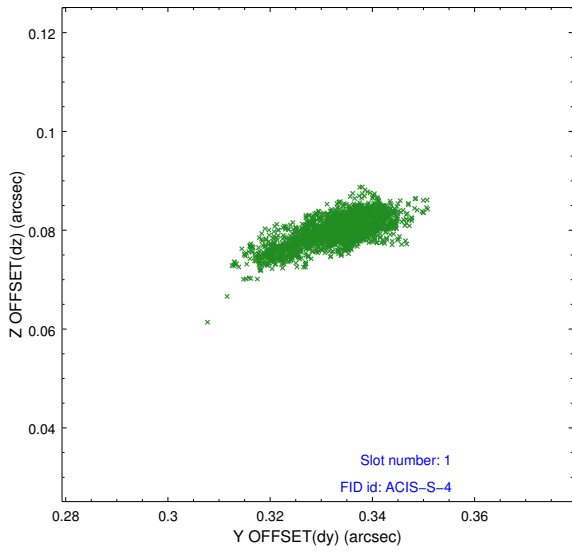


2.5 FID Slots

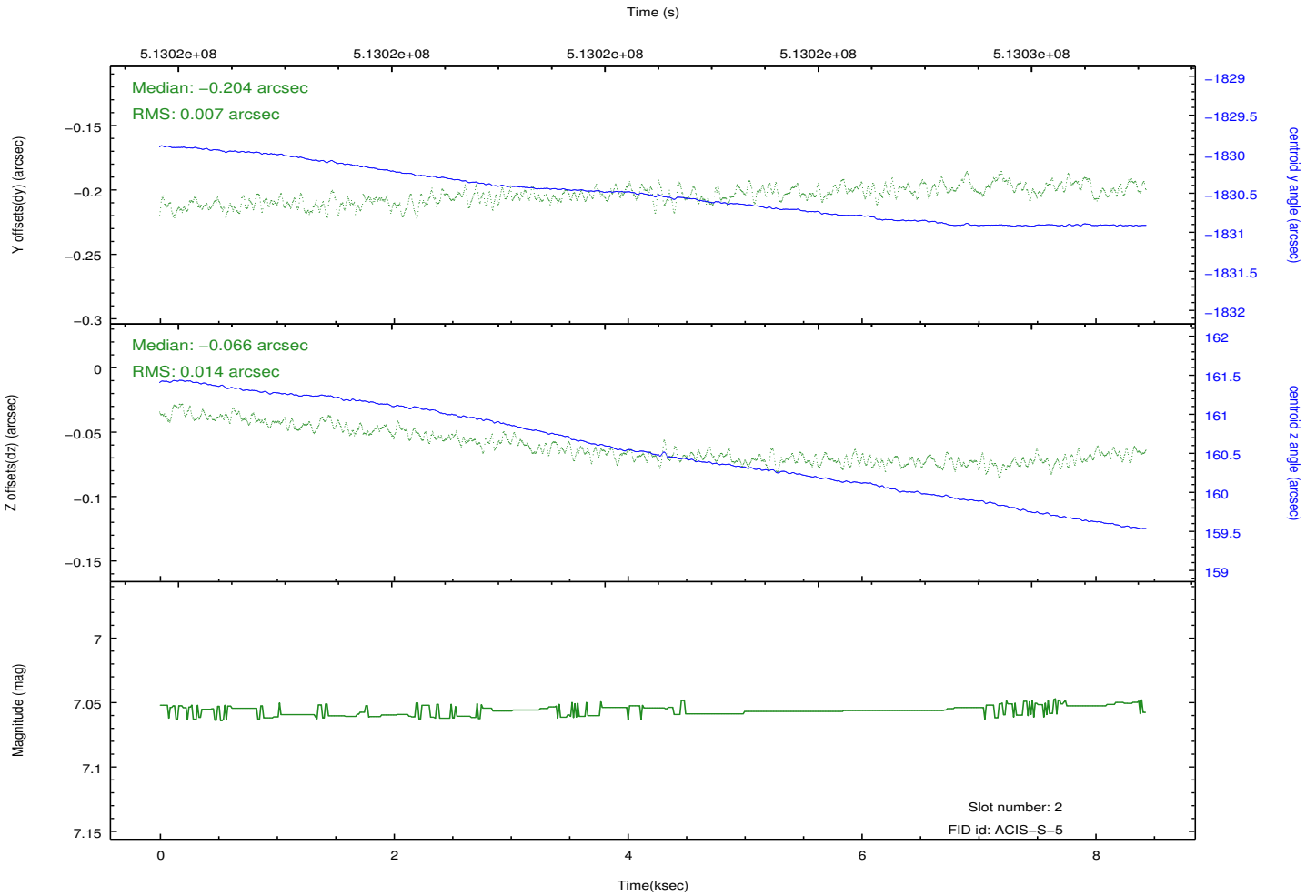
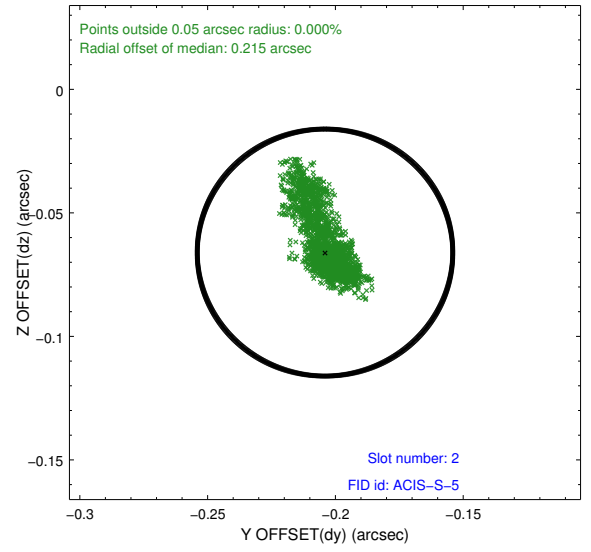
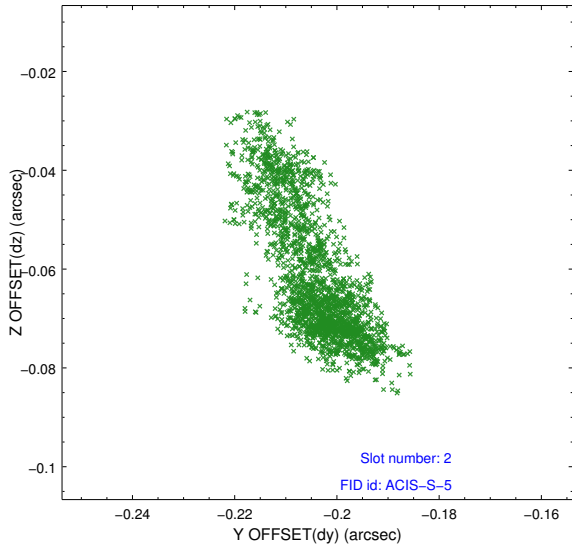
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3669000643492

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.