

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12264 - L2 Version 2
Chandra X-Ray Center

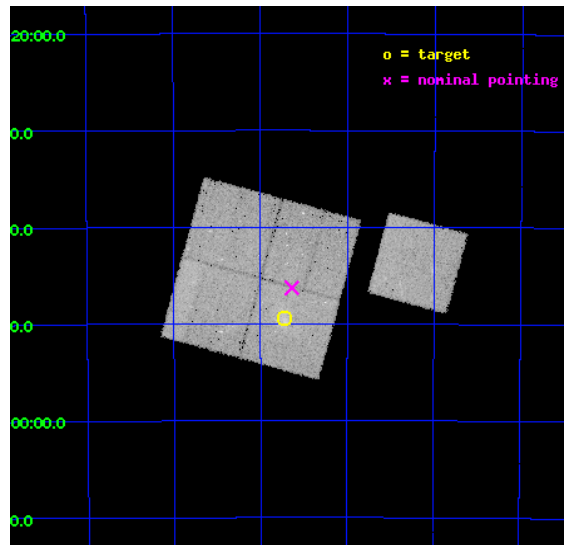
L2 Processing Date : Jul 2 2012

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1 Front

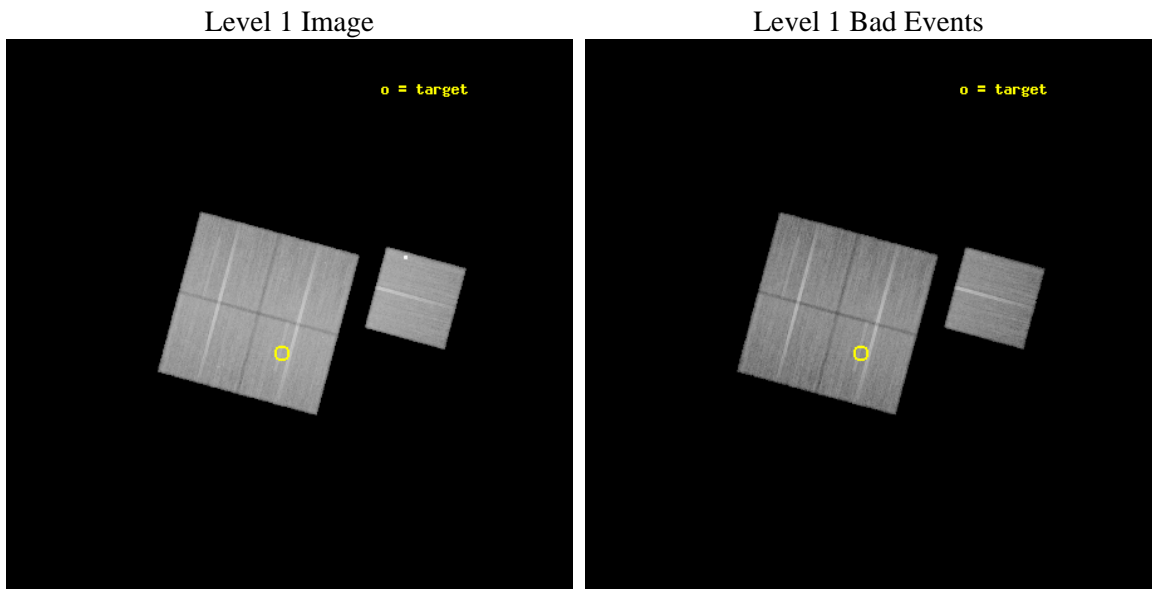
seq_num	800983	Sequence number
obs_id	12264	Observation id
title	Chandra Observations of the ACT Sample of SZE-Selected Galaxy Clusters	Proposal title
observer	Prof. John Hughes	Principal investigator
object	ACT J0559-5249	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.93	Observer's specified target RA [deg]
dec_targ	-52.824194	Observer's specified target Dec [deg]
ra_nom	89.909532207313	Nominal RA [deg]
dec_nom	-52.771227248536	Nominal Dec [deg]
roll_nom	105.19237987198	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40549.649654031	Sum of GTIs [s]
livetime	40019.838629083	Livetime [s]
ontime0	40552.667514265	Sum of GTIs [s]
ontime1	40552.708554268	Sum of GTIs [s]
ontime2	40543.326663494	Sum of GTIs [s]
ontime3	40549.649654031	Sum of GTIs [s]
ontime6	40543.203593194	Sum of GTIs [s]
l2events	139832	Number of level 2 events



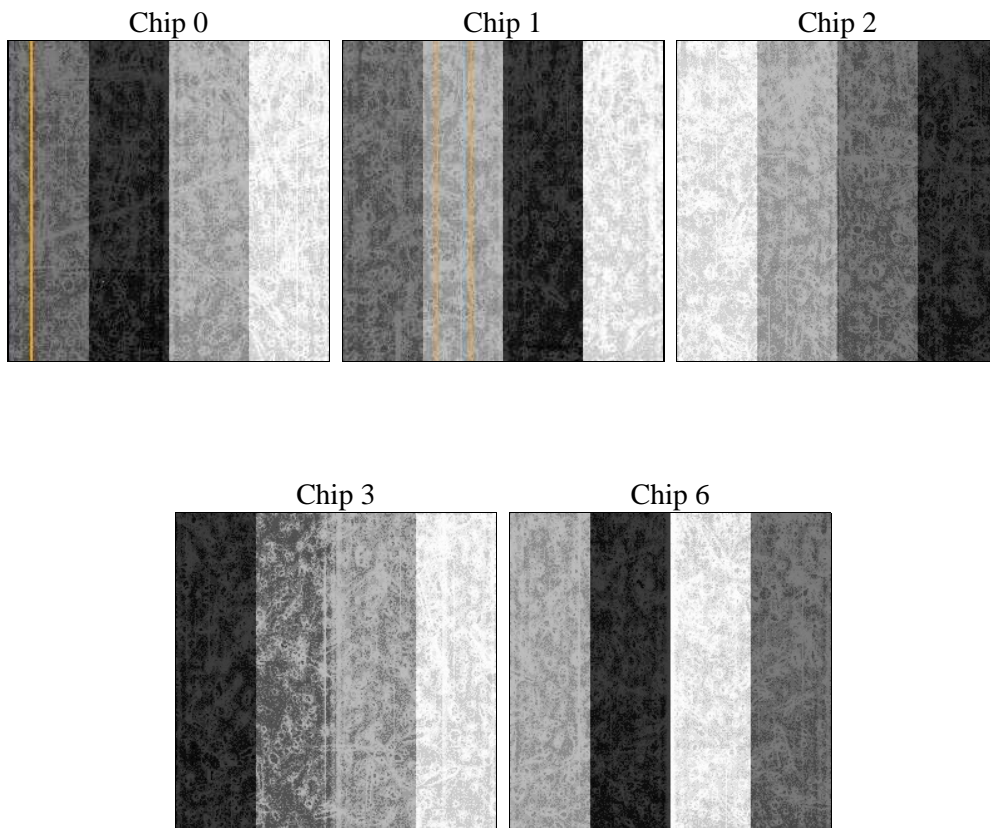
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40549.649654031	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	40552.667514265	Sum of GTIs [s]
date	2012-07-02T18:31:08	Date and time of file creation	ontime1	40552.708554268	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40543.326663494	Sum of GTIs [s]
			ontime3	40549.649654031	Sum of GTIs [s]
			ontime6	40543.203593194	Sum of GTIs [s]
			l1events	1481083	Number of level 1 events

2.1.4 Events

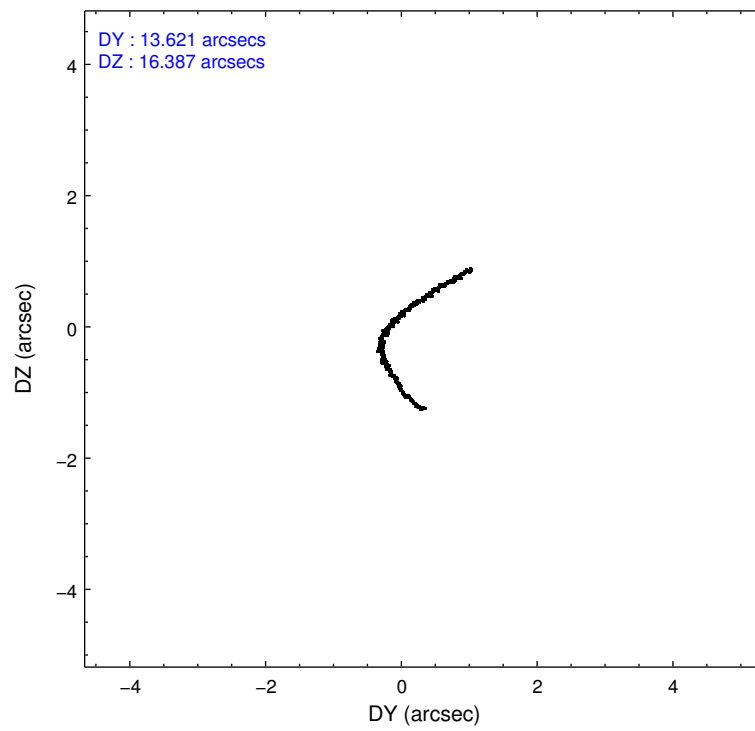
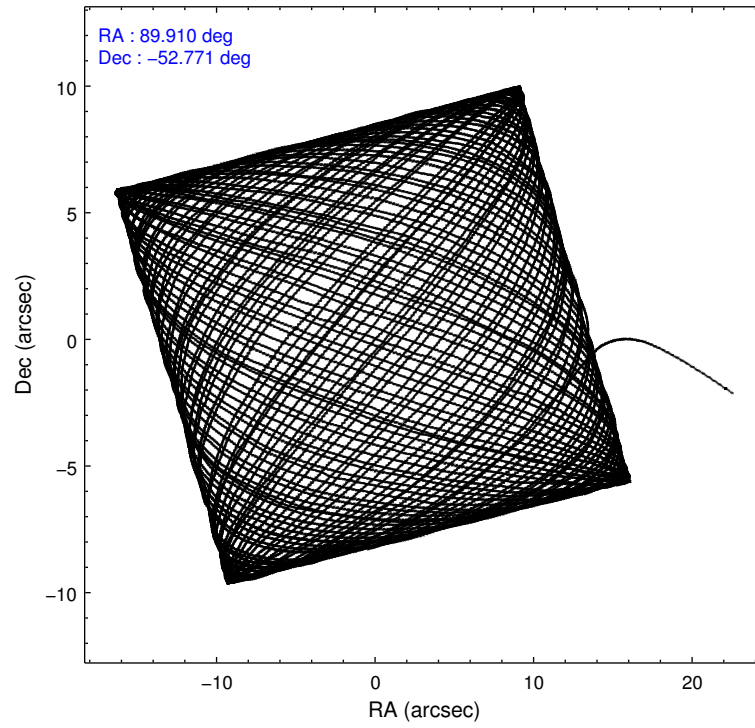
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	275487	284543	303456	305210	312387
rejected events	242682	247933	271619	272382	267004
rejected %	88%	87%	89%	89%	85%

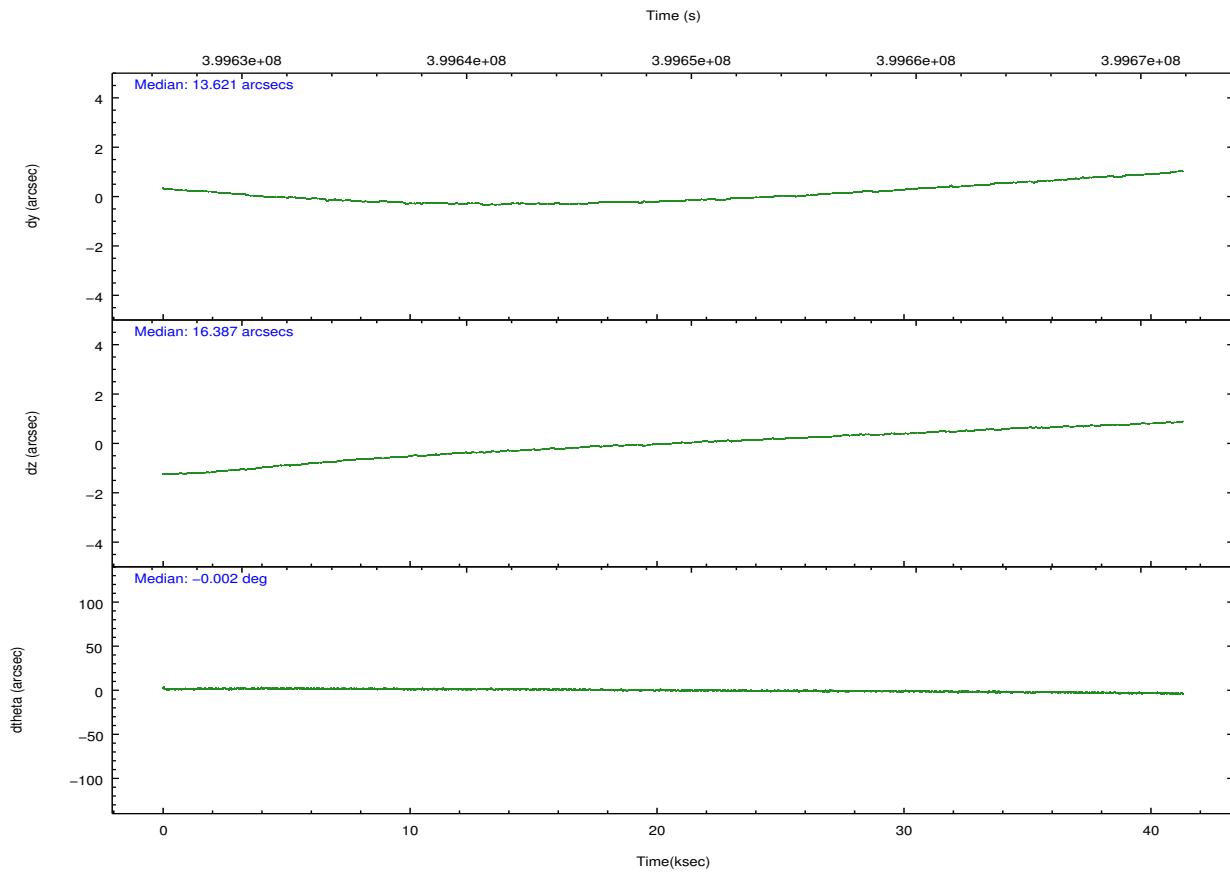
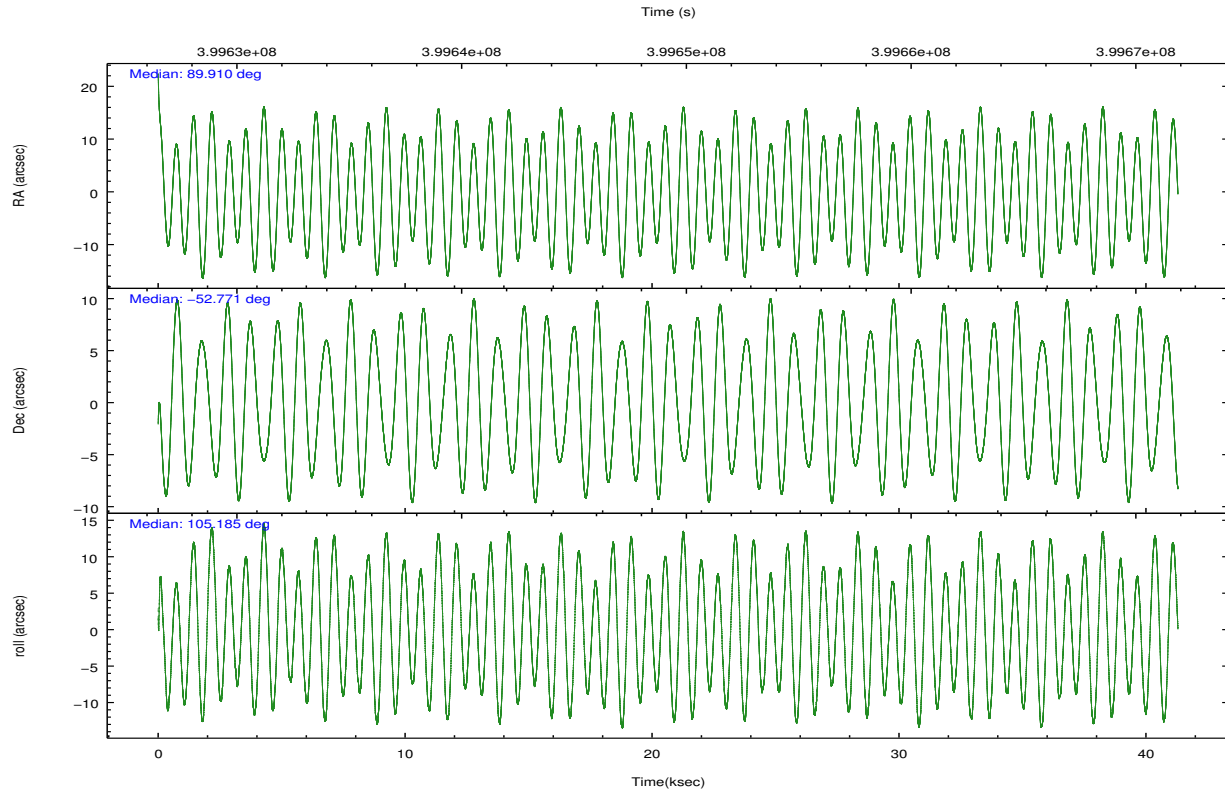
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11258	12938	11509	12520	11471
	4%	4%	3%	4%	3%
grade 1 events	155	148	190	192	145
	0%	0%	0%	0%	0%
grade 2 events	8152	8749	7882	7154	19523
	2%	3%	2%	2%	6%
grade 3 events	3479	3659	3275	3344	3561
	1%	1%	1%	1%	1%
grade 4 events	3364	3679	3225	3360	3453
	1%	1%	1%	1%	1%
grade 5 events	12199	13058	11386	13676	13570
	4%	4%	3%	4%	4%
grade 6 events	6555	7586	5951	6453	7378
	2%	2%	1%	2%	2%
grade 7 events	230325	234726	260038	258511	253286
	83%	82%	85%	84%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	89.941892	89.90953220731328	CCD I2 on	Y	Y
[deg] Pointing Dec	-52.790520	-52.77122724853577	CCD I3 on	Y	Y
[deg] Pointing Roll	105.009466	105.1923798719827	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.792463	-225.7829997647864	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.8	-7.809453238143249	CCD S4 on	N	N
[s] Observation start time (MET)	399629339.184000	399627643.7271	CCD S5 on	N	N
Observation start date	2010-08-31T08:07:53	2010-08-31T07:40:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	399669839.184000	399670636.3293	On-chip summing requested	N	N
Observation end date	2010-08-31T19:22:53	2010-08-31T19:37:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



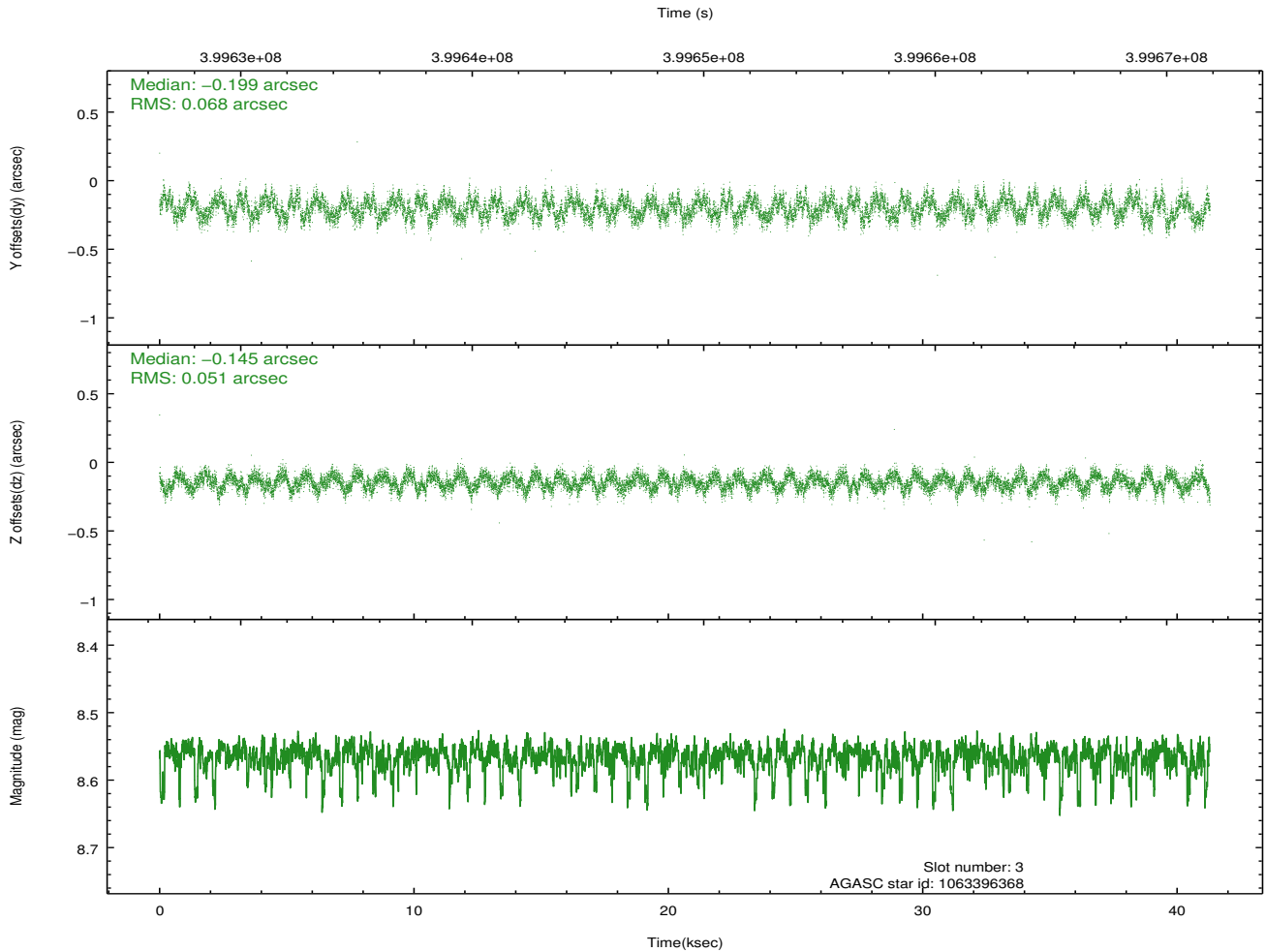
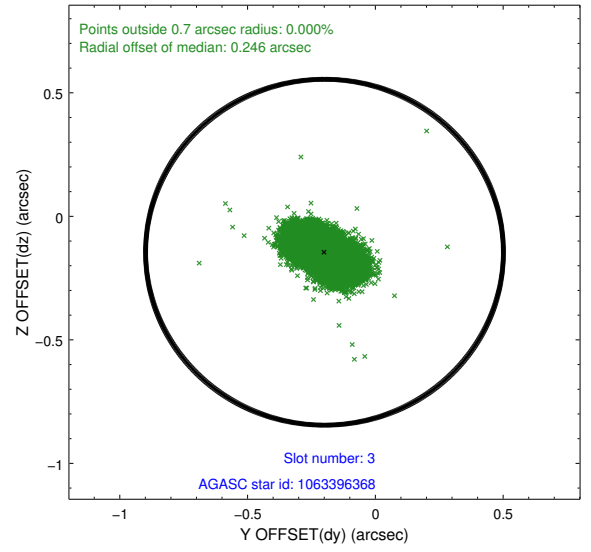
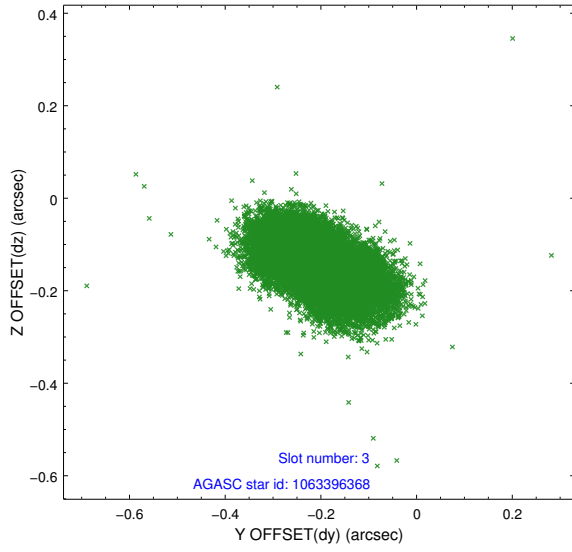


Slot Statistics

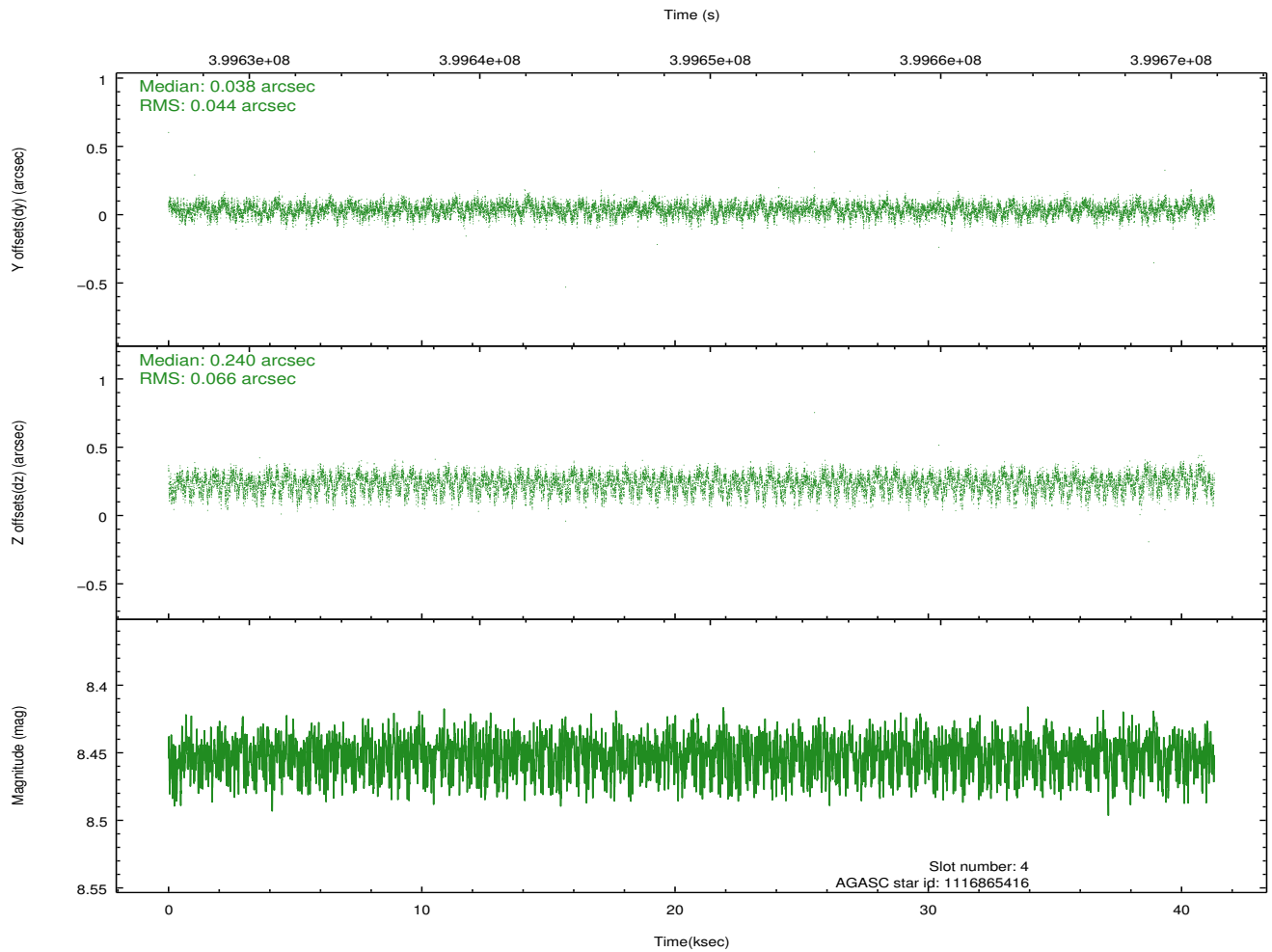
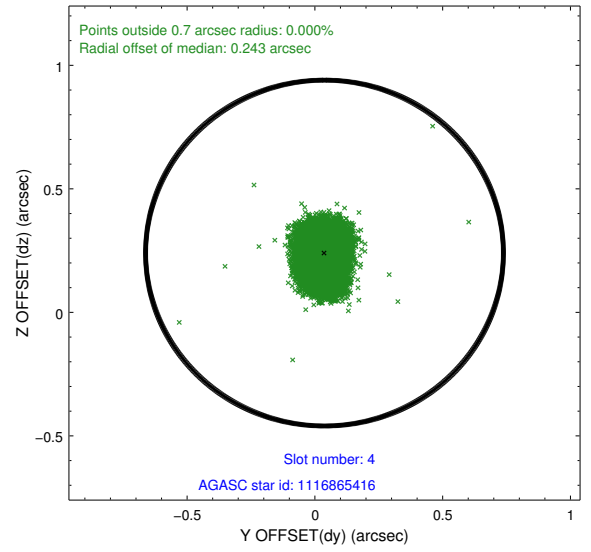
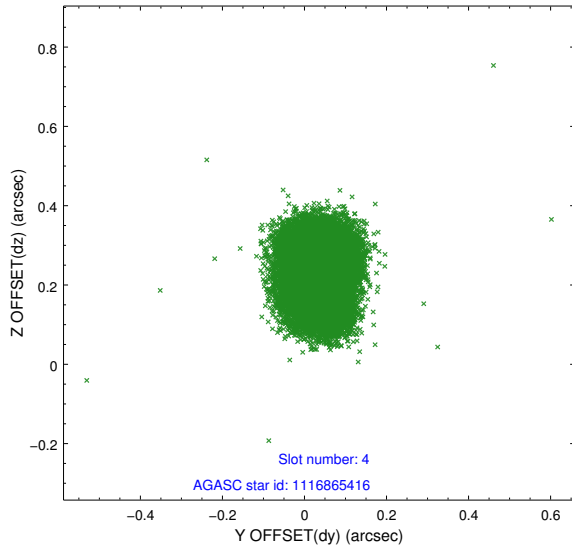
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	10072	0.117	-0.067	0.020	0.042	0.000000	0.000000	925.73	-1000.35
1	FID	ACIS-I-5	6.98	10071	-0.268	0.104	0.016	0.025	0.000000	0.000000	-1822.76	897.29
2	FID	ACIS-I-6	7.00	10071	0.057	0.036	0.021	0.031	0.000000	0.000000	391.21	1541.74
3	GUIDE	1063396368	8.57	20110	-0.199	-0.145	0.091	0.144	90.045624	-52.177781	2071.26	-791.84
4	GUIDE	1116865416	8.45	20134	0.038	0.240	0.085	0.136	91.050005	-52.893639	-999.11	-2223.04
5	GUIDE	1063398424	8.71	20125	0.052	0.127	0.092	0.151	90.754923	-52.113929	1877.97	-2363.58
6	GUIDE	1116743352	9.21	20128	0.066	-0.192	0.109	0.177	89.141412	-53.569099	-2273.35	2381.25
7	GUIDE	1116740176	9.37	20126	0.045	-0.019	0.140	0.238	89.520403	-53.532421	-2348.63	1564.14

2.4 Star Slots

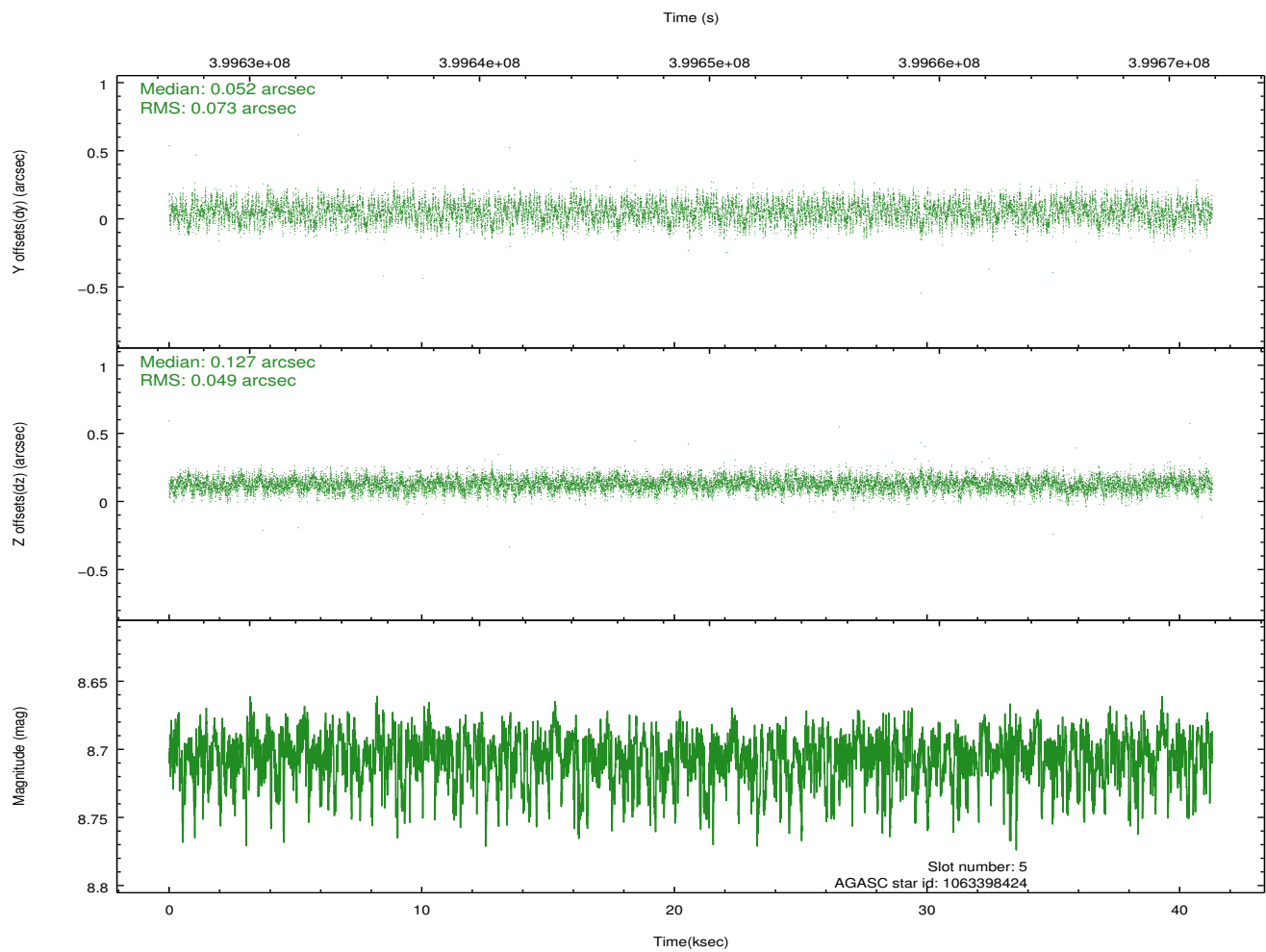
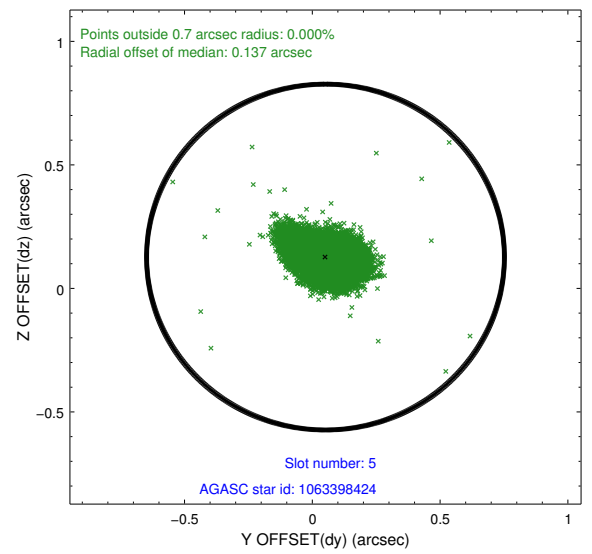
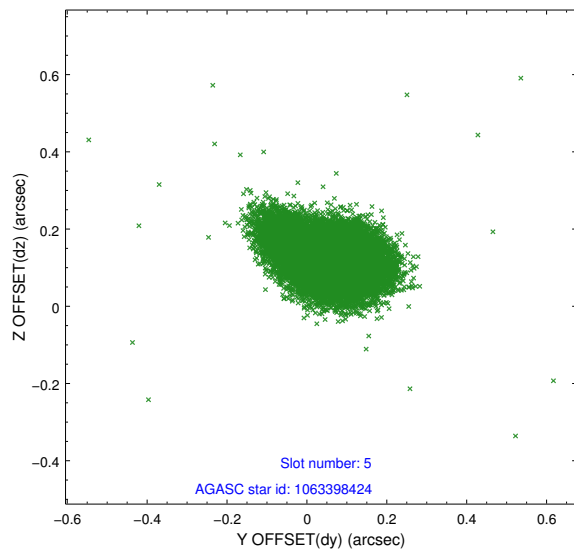
2.4.1 Slot 3



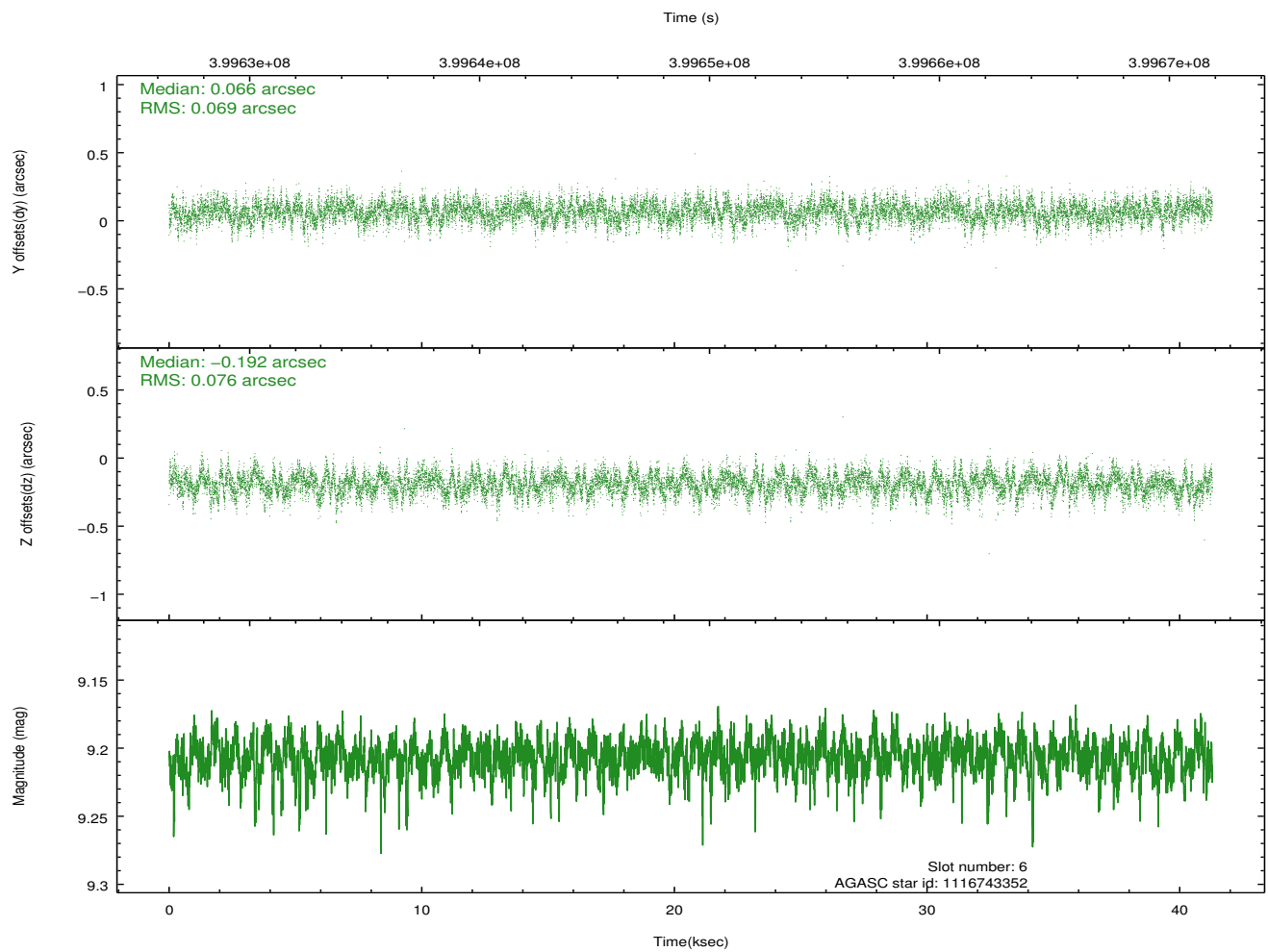
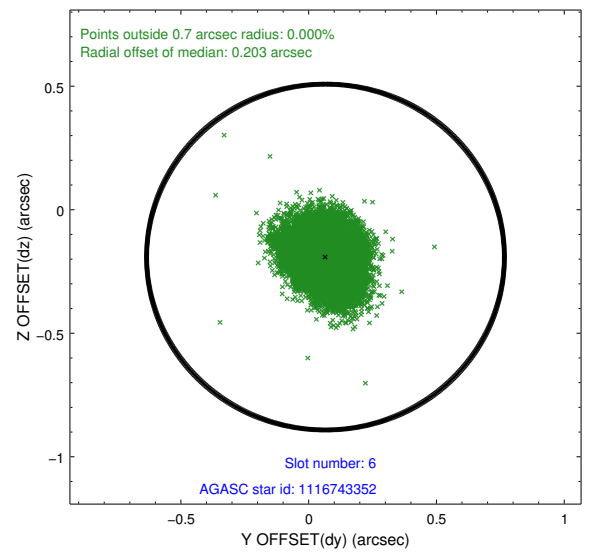
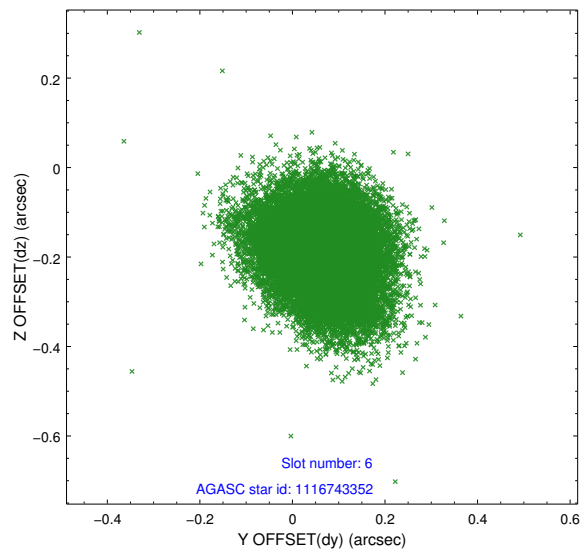
2.4.2 Slot 4



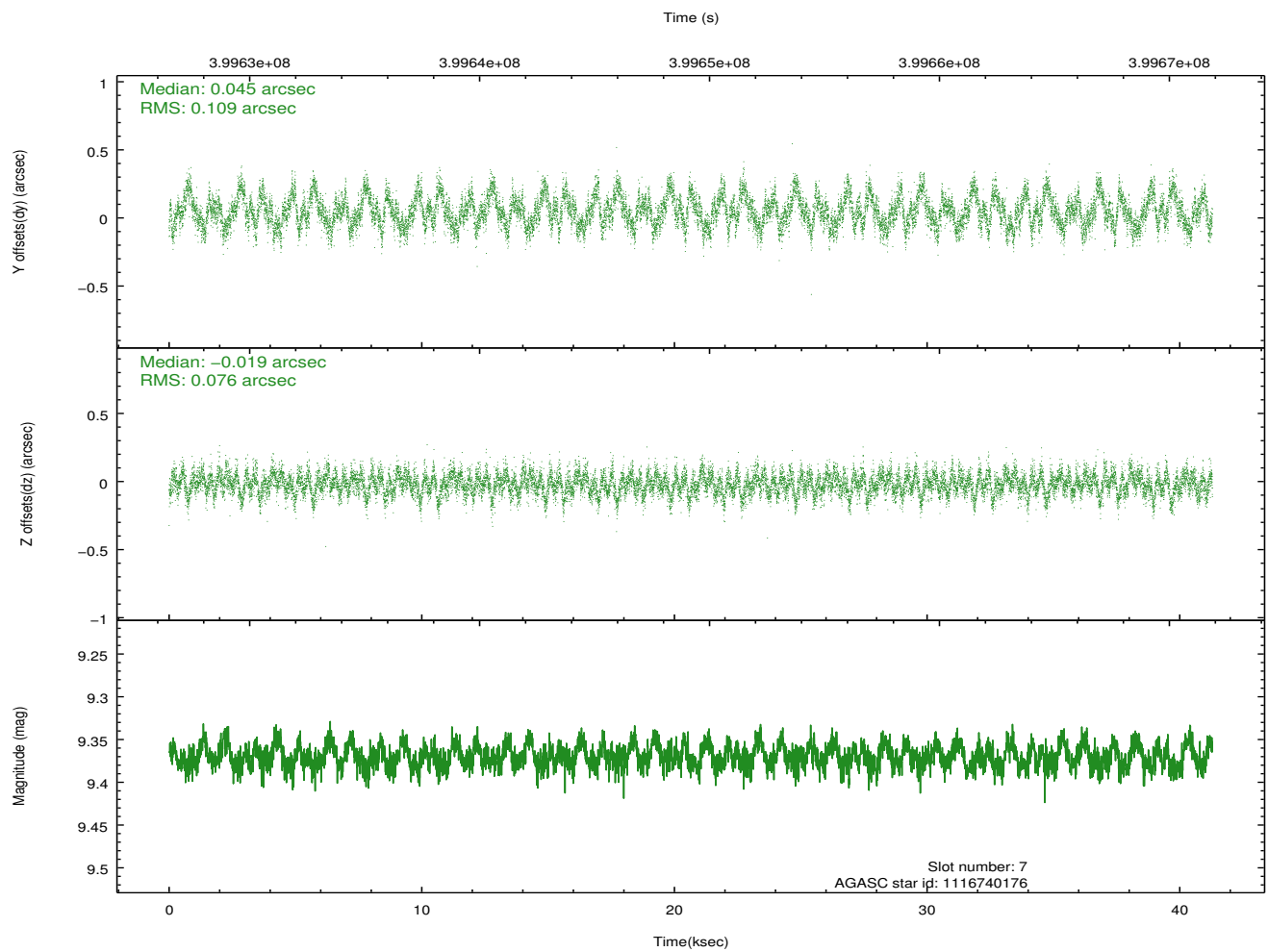
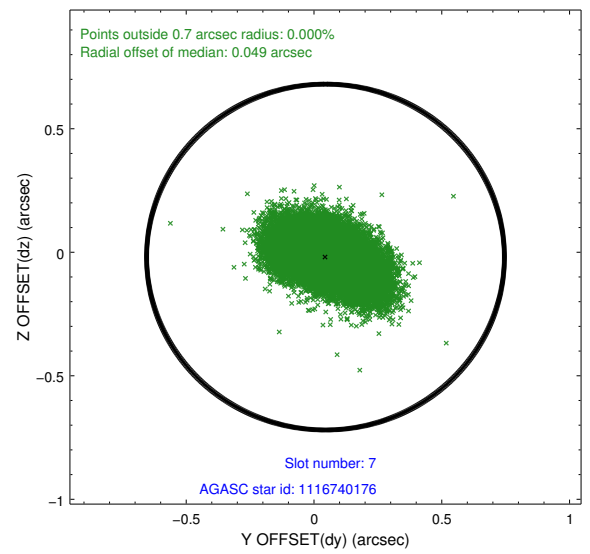
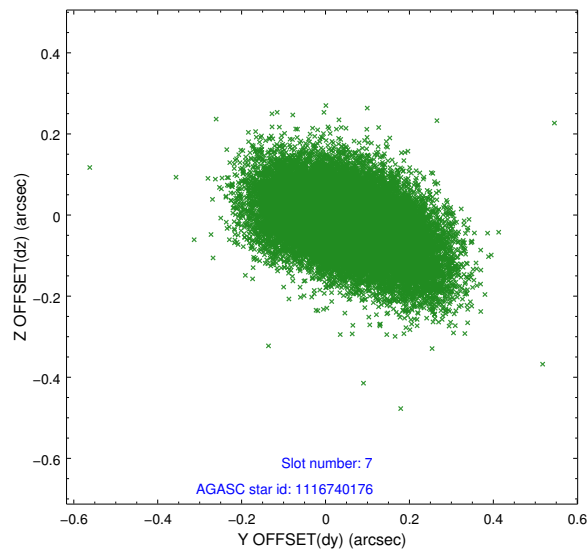
2.4.3 Slot 5



2.4.4 Slot 6

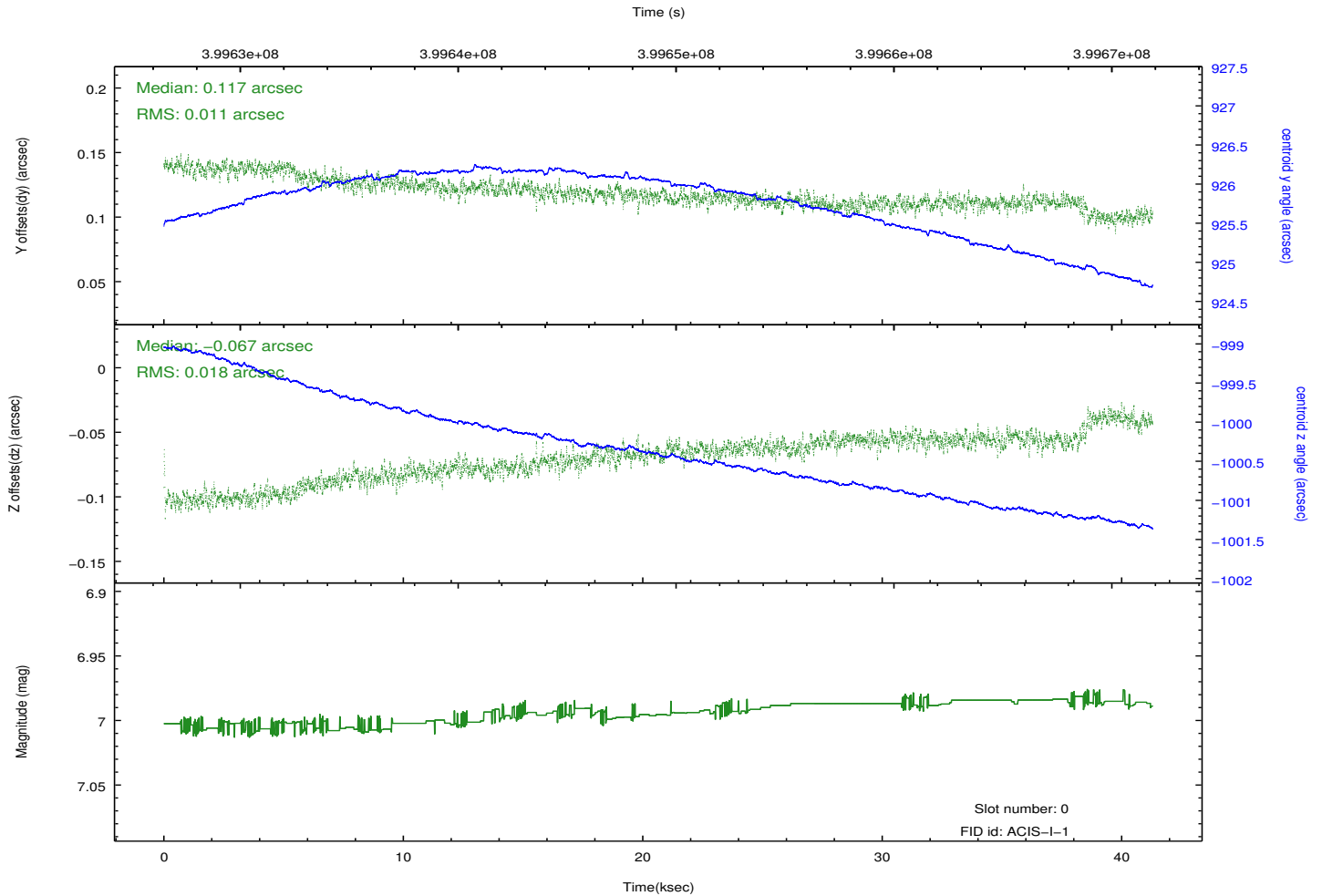
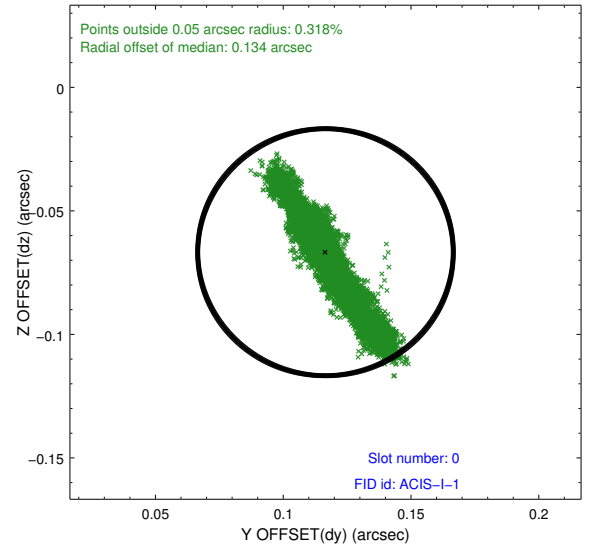
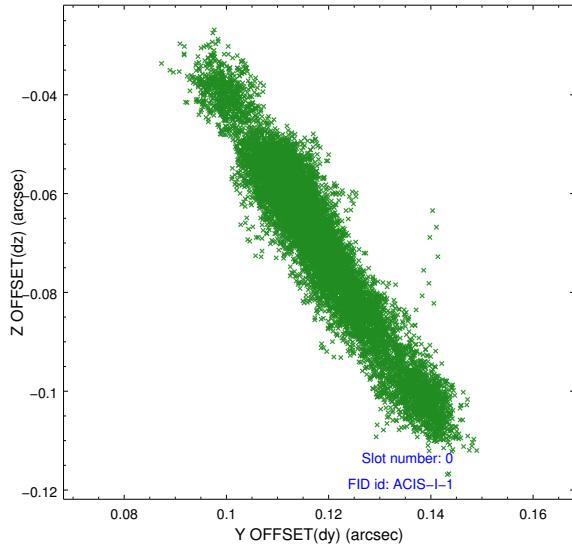


2.4.5 Slot 7

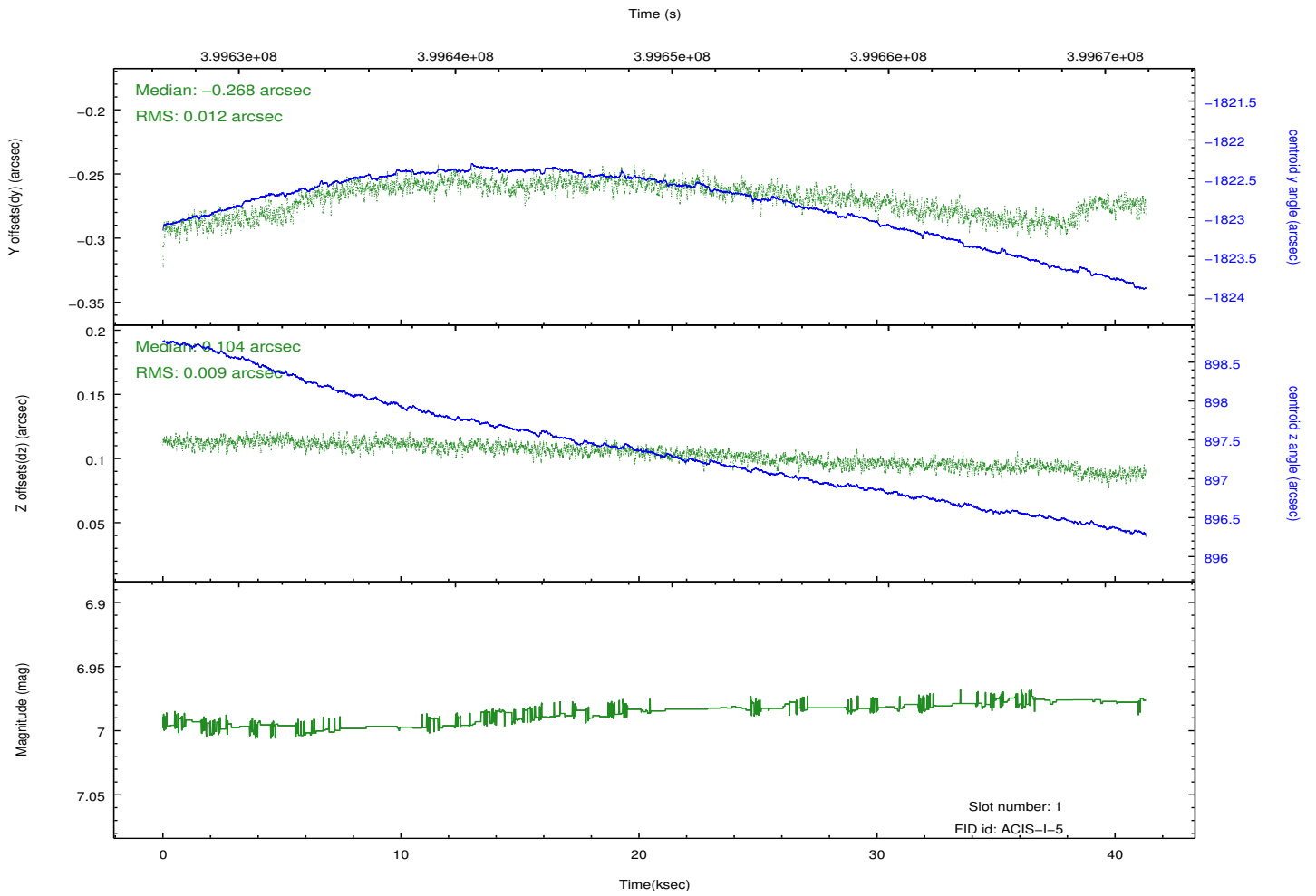
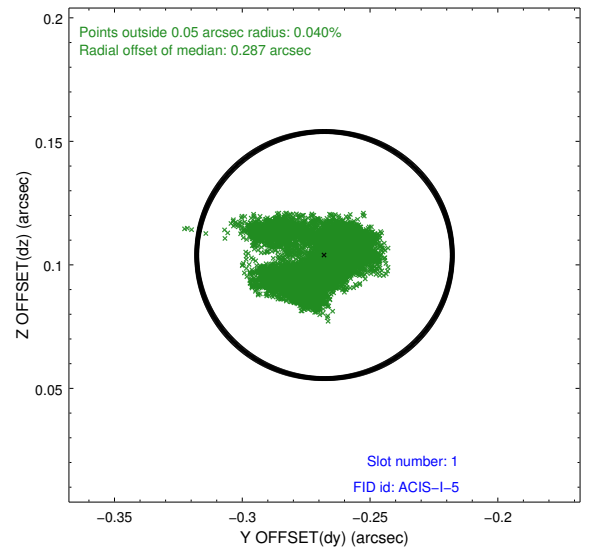
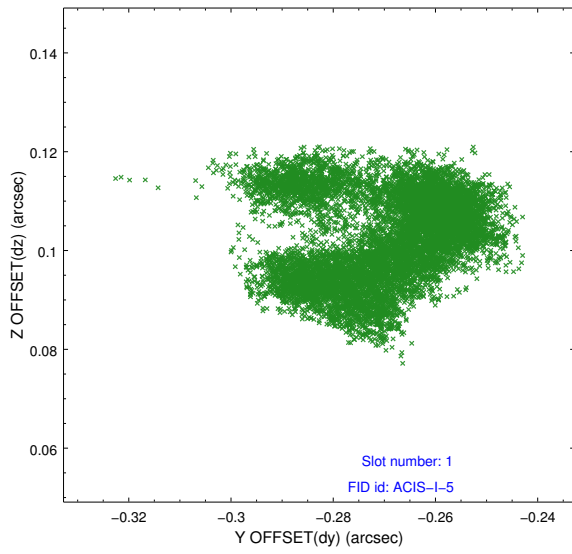


2.5 FID Slots

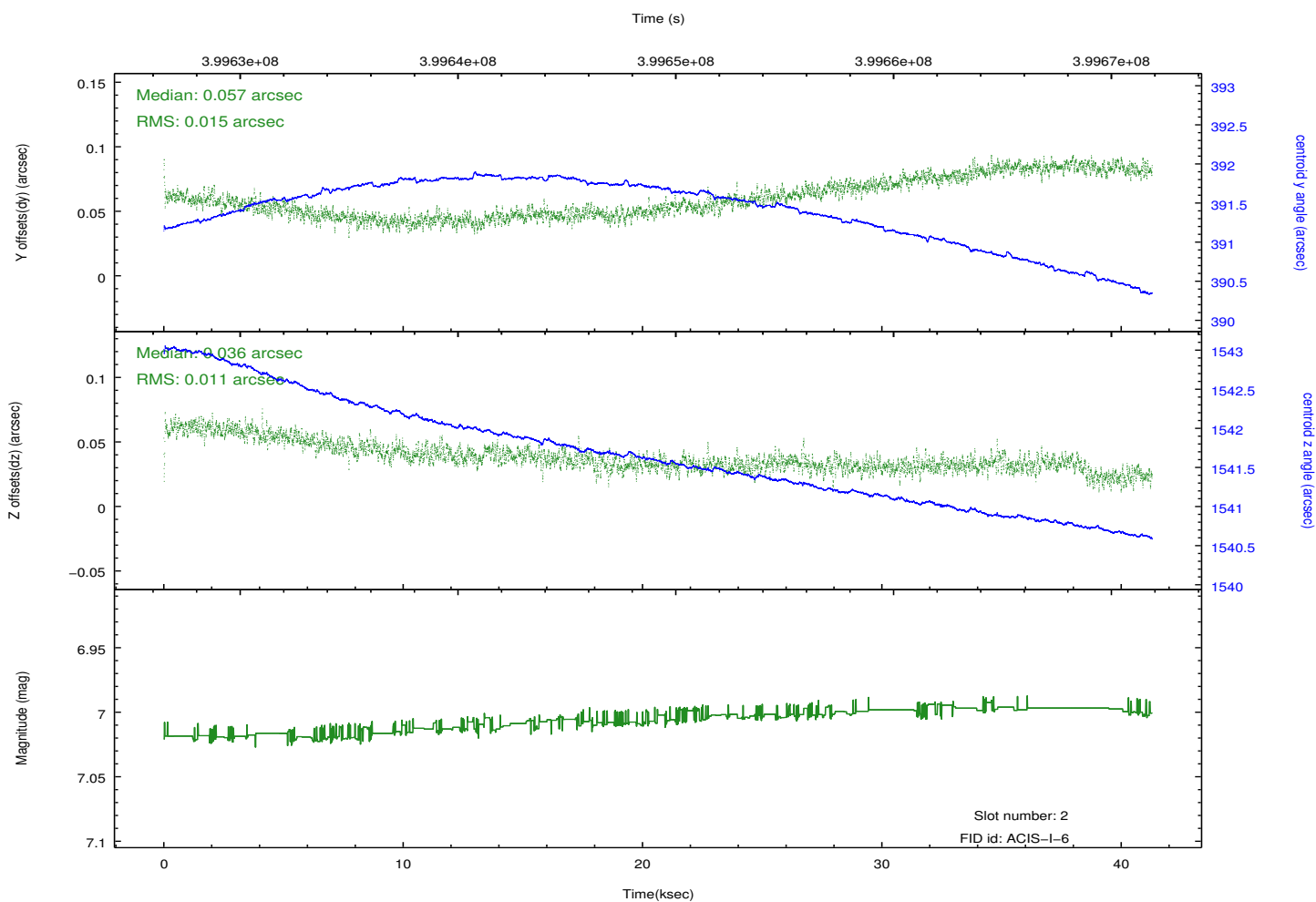
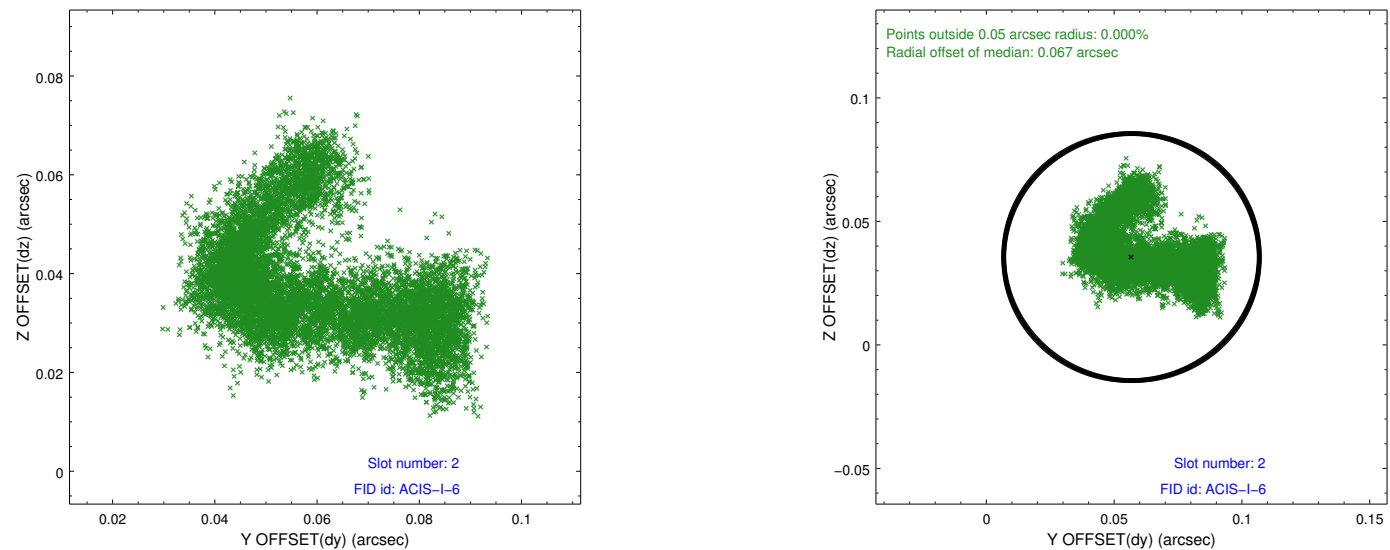
2.5.1 Slot 0



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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.5496496526

A.2 Comments