

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19960 - L2 Version 1
Chandra X-Ray Center

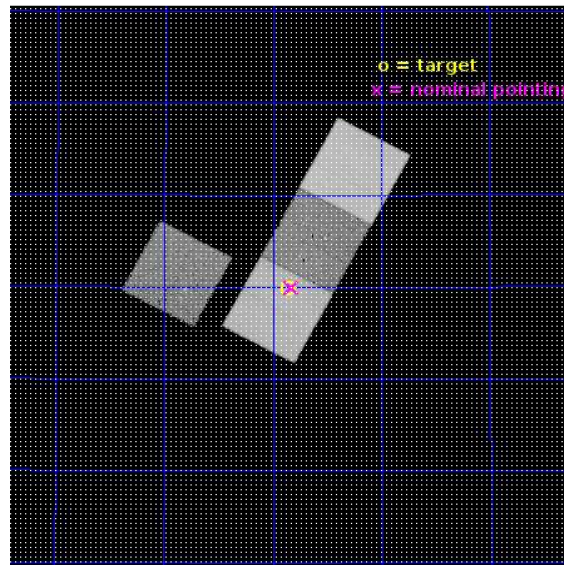
L2 Processing Date : Dec 14 2016

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1 Front

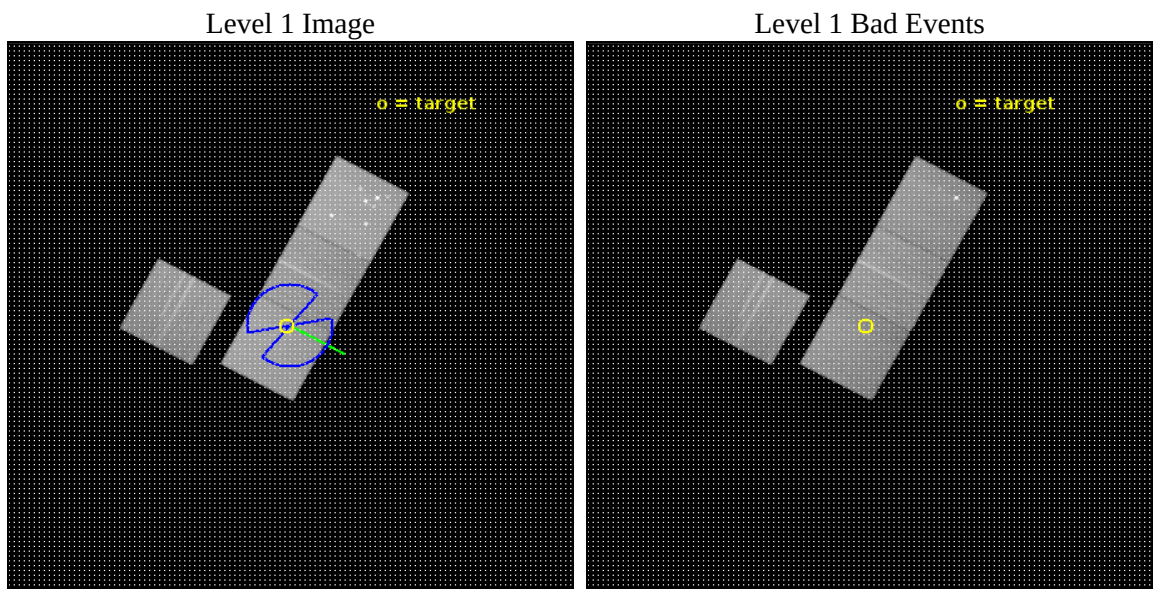
seq_num	703248	Sequence number
obs_id	19960	Observation id
title	A DETAILED VIEW OF AN EXTENDED X-RAY BRIGHT, RADIO FAINT BLACK HOLE JET AT REDSHIFT 2.5	Proposal title
observer	Dr. Aurora Simionescu	Principal investigator
object	B3 0727+409	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	112.71375	Observer's specified target RA [deg]
dec_targ	40.830833	Observer's specified target Dec [deg]
ra_nom	112.7071865832	Nominal RA [deg]
dec_nom	40.83205072778	Nominal Dec [deg]
roll_nom	118.16092590288	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40315.500310183	Sum of GTIs [s]
livetime	39788.74861879	Livetime [s]
ontime3	40315.500310183	Sum of GTIs [s]
ontime5	40315.500310183	Sum of GTIs [s]
ontime6	40309.218179822	Sum of GTIs [s]
ontime7	40315.500310183	Sum of GTIs [s]
l2events	417330	Number of level 2 events



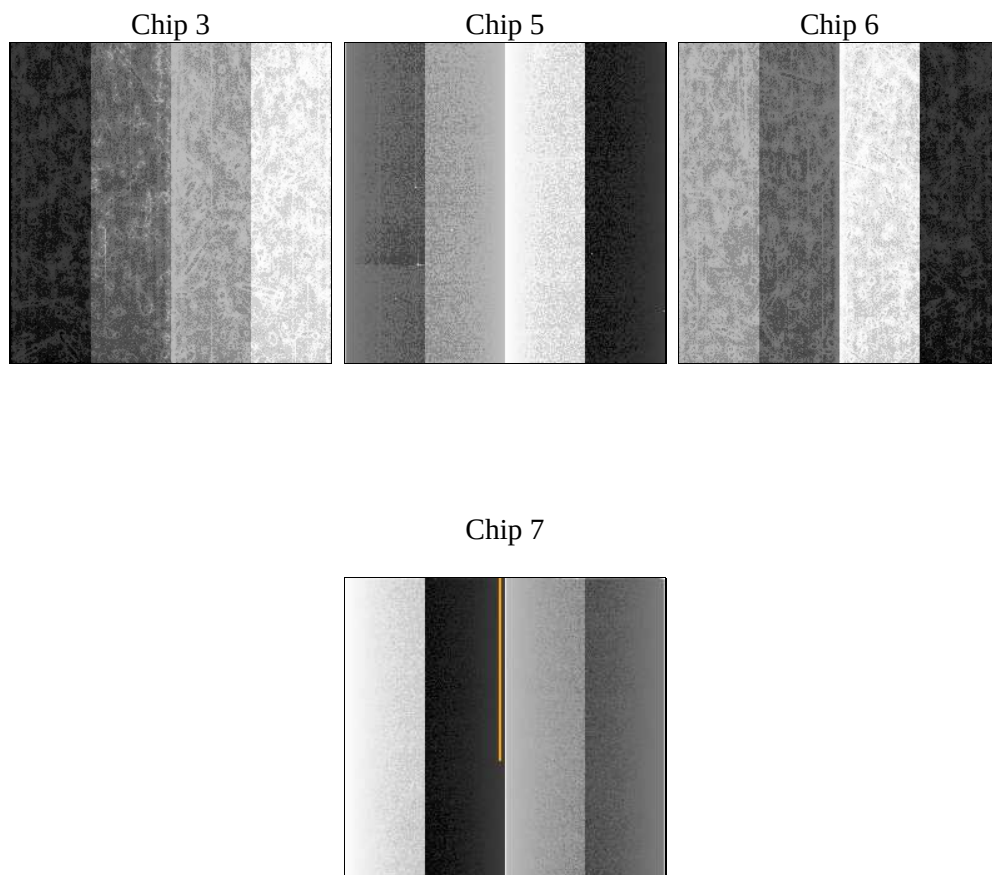
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40250.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40315.500310183	Sum of GTIs [s]
caldsver	4.7.3	 	ontime3	40315.500310183	Sum of GTIs [s]
date	2016-12-14T22:44:34	Date and time of file creation	ontime5	40315.500310183	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	40309.218179822	Sum of GTIs [s]
			ontime7	40315.500310183	Sum of GTIs [s]
			l1events	1434437	Number of level 1 events

2.1.4 Events

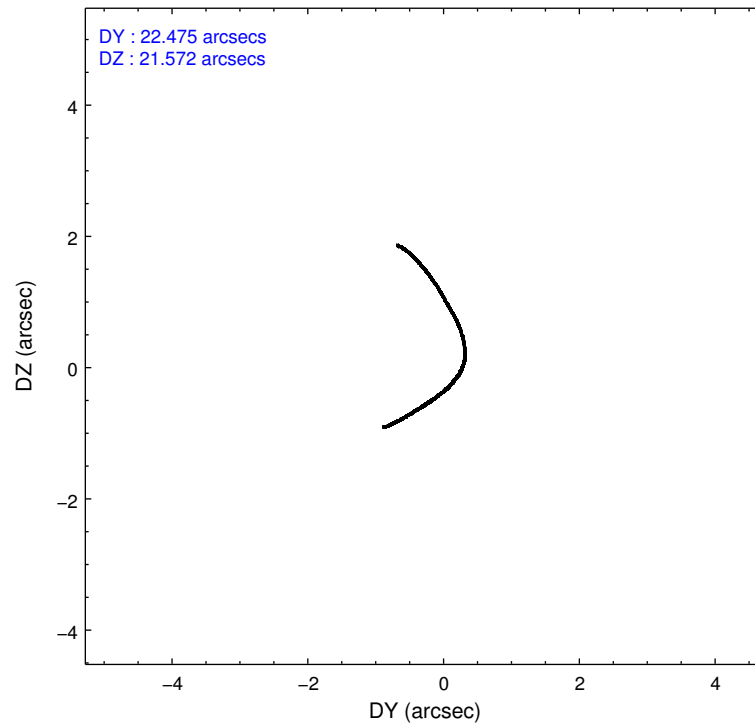
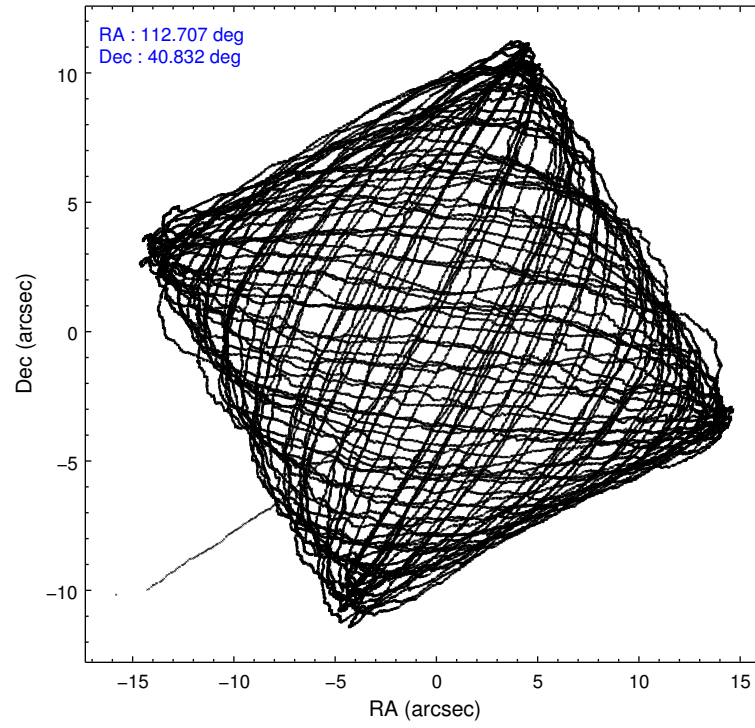
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	274997	497365	297384	364691
rejected events	245805	244349	263375	204637
rejected %	89%	49%	88%	56%

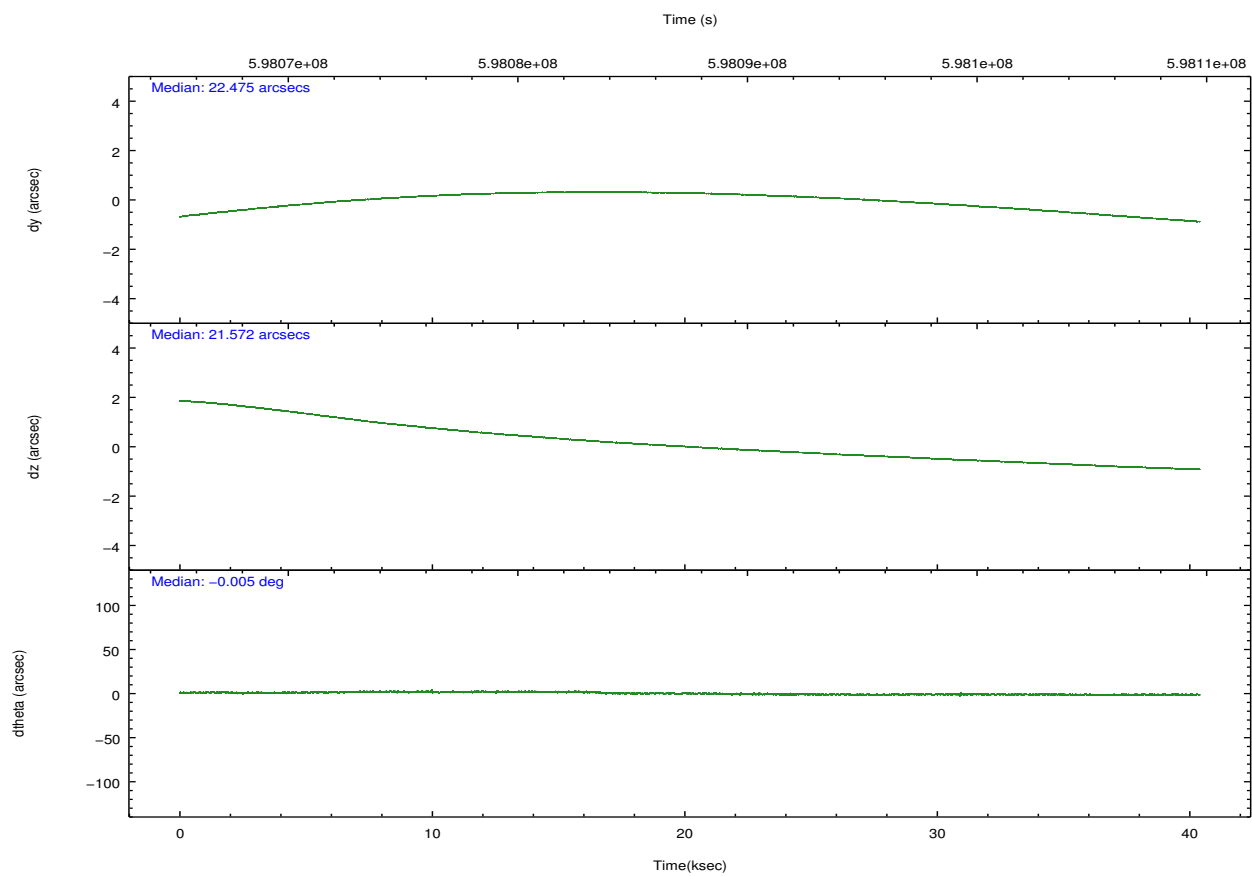
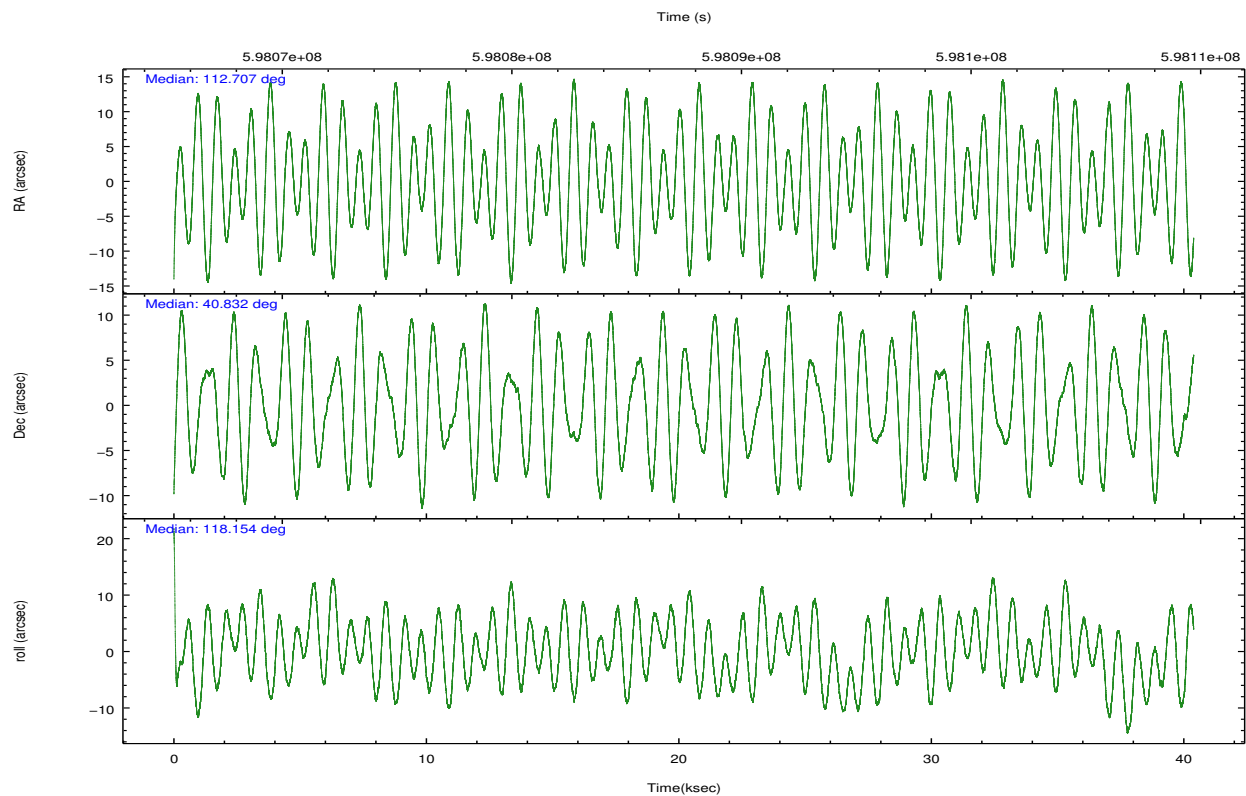
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	10405	49299	12049	13858
	3%	9%	4%	3%
grade 1 events	186	1009	156	509
	0%	0%	0%	0%
grade 2 events	6377	71955	7931	34351
	2%	14%	2%	9%
grade 3 events	3028	7410	3228	12634
	1%	1%	1%	3%
grade 4 events	3178	6447	3232	12673
	1%	1%	1%	3%
grade 5 events	13351	31563	13815	35713
	4%	6%	4%	9%
grade 6 events	6213	117950	7576	86551
	2%	23%	2%	23%
grade 7 events	232259	211732	249397	168402
	84%	42%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	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	112.738258	112.7071865831984	CCD I2 on	O1	N
[deg] Pointing Dec	40.817869	40.83205072778015	CCD I3 on	O2	Y
[deg] Pointing Roll	117.983977	118.1609259028798	CCD S0 on	N	N
[deg] Roll angle	150.000000	150.000000	CCD S1 on	Y	Y
[deg] Roll tolerance	70.000000	70.000000	CCD S2 on	Y	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S4 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S5 on	N	N
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	Number of optional ACIS chips dropped	1	1
[mm] SIM translation stage offset	0	0.01005778216563158	On-chip summing requested	N	N
[s] Observation start time (MET)	598067427.184000	598066137.69876	Subarray requested	NONE	NONE
Observation start date	2016-12-14T01:49:19	2016-12-14T01:28:57	Alternating exposures requested	N	N
[s] Observation end time (MET)	598107677.184000	598108644.96372	[s] Primary exposure time	0.000000	3.1
Observation end date	2016-12-14T13:00:09	2016-12-14T13:17:24			
Read mode	TIMED	TIMED			

2.3 Aspect



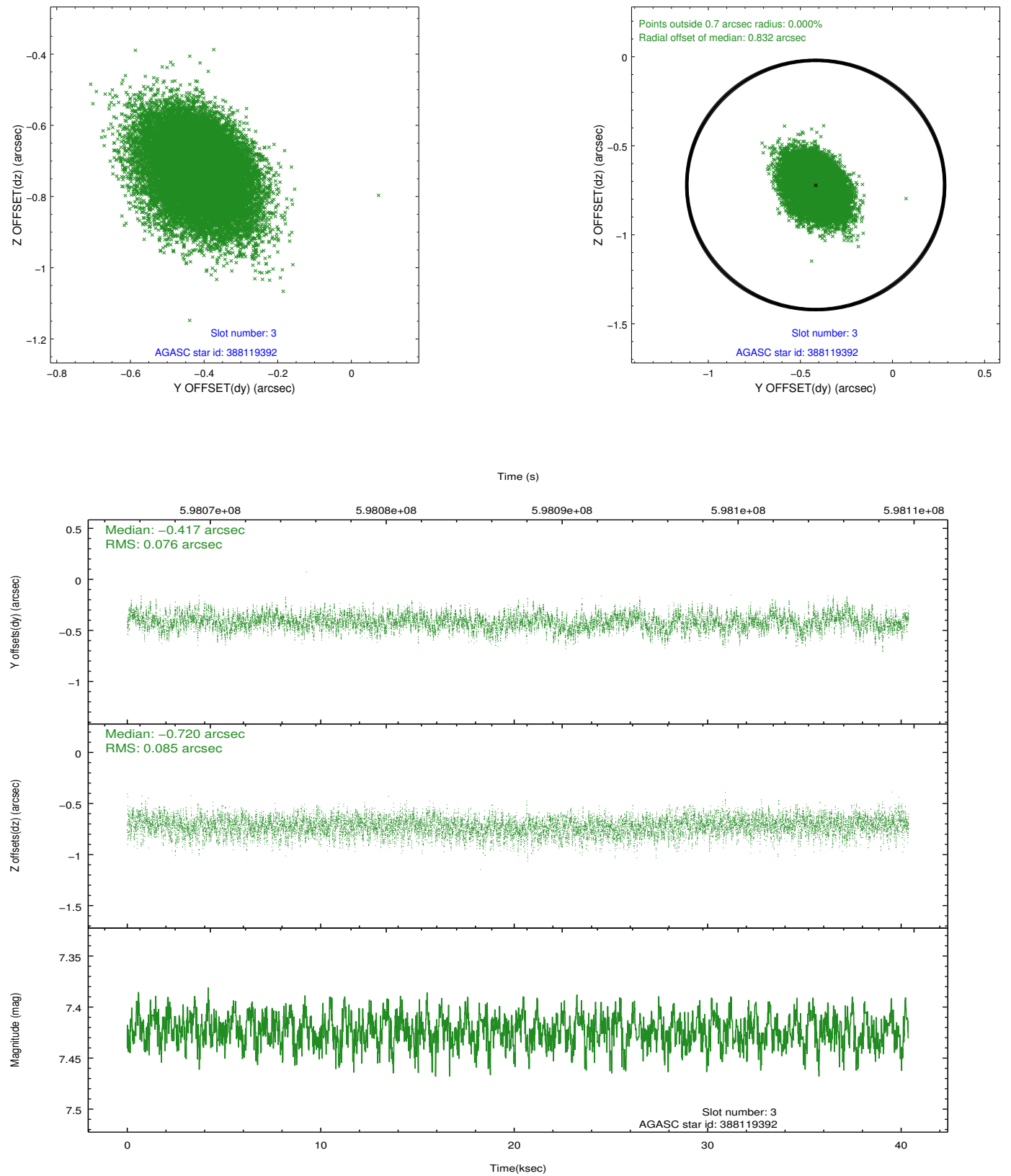


Slot Statistics

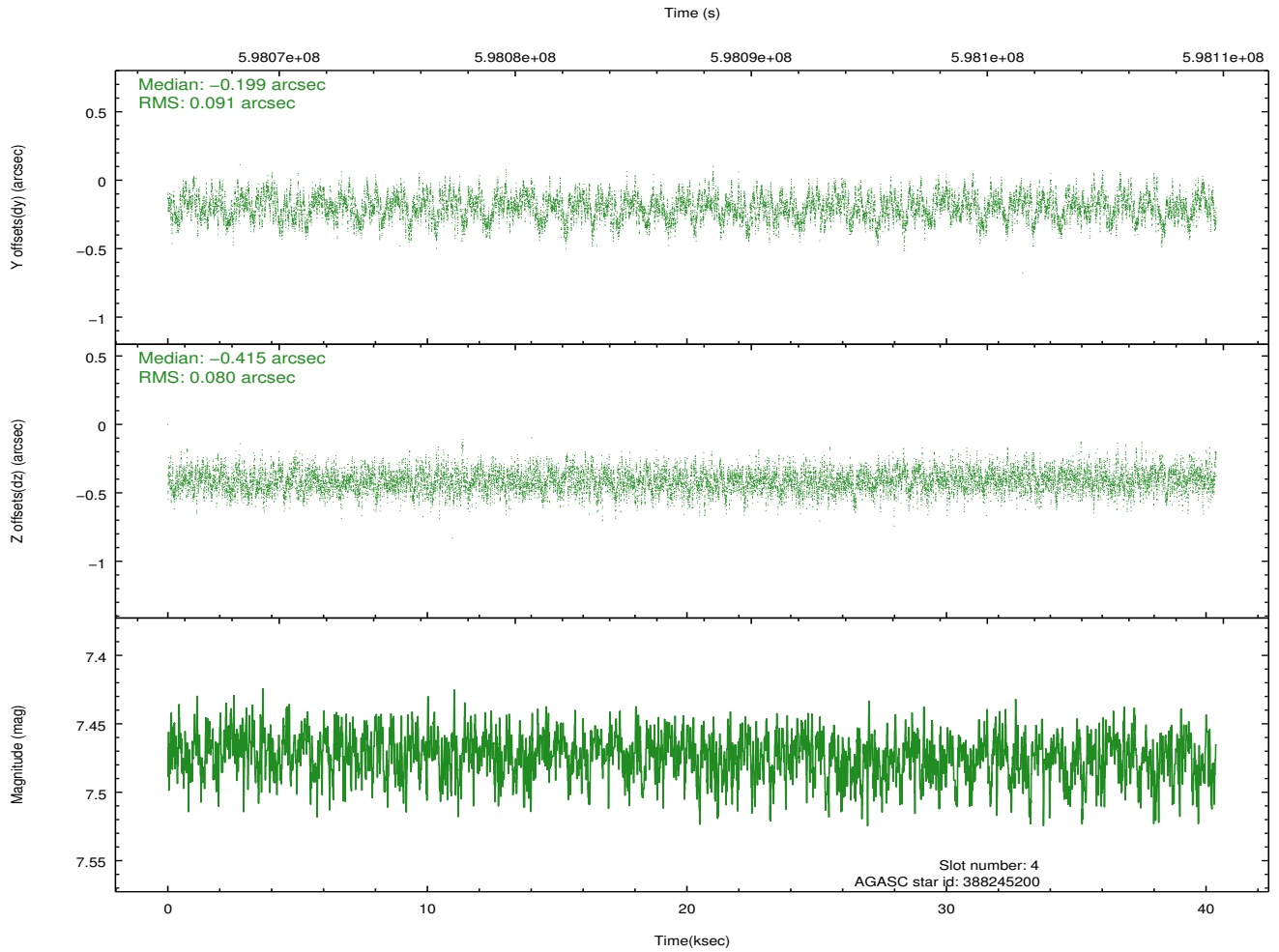
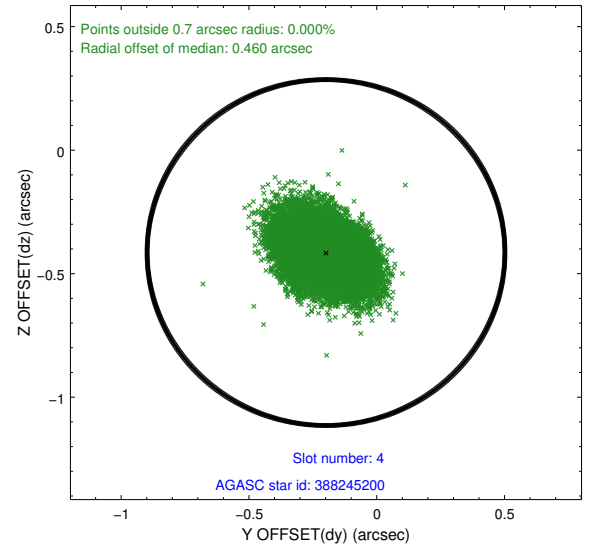
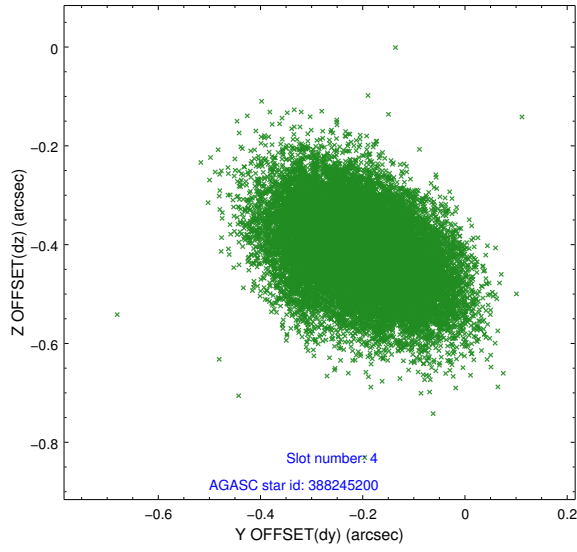
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	9850	-0.222	-0.135	0.018	0.028	0.000000	0.000000	-775.74	-1743.40
1	FID		ACIS-S-4	7.13	9850	0.499	0.142	0.016	0.041	0.000000	0.000000	2138.20	165.40
2	FID		ACIS-S-5	7.13	9852	-0.311	0.000	0.023	0.034	0.000000	0.000000	-1828.69	158.87
3	GUIDE	used	388119392	7.42	19702	-0.417	-0.720	0.121	0.199	112.044138	40.656586	381.74	1941.40
4	GUIDE	used	388245200	7.47	19702	-0.199	-0.415	0.130	0.210	112.557176	40.846148	321.58	387.86
5	GUIDE	used	388771448	8.64	19691	0.106	0.049	0.126	0.209	112.939221	41.466193	1807.87	-1573.71
6	GUIDE	used	388238336	7.21	19701	0.045	0.289	0.108	0.183	113.439888	41.173941	247.31	-2283.53
7	GUIDE	used	388244952	7.74	19700	0.465	0.801	0.124	0.202	113.817171	40.506408	-2358.90	-2089.69

2.4 Star Slots

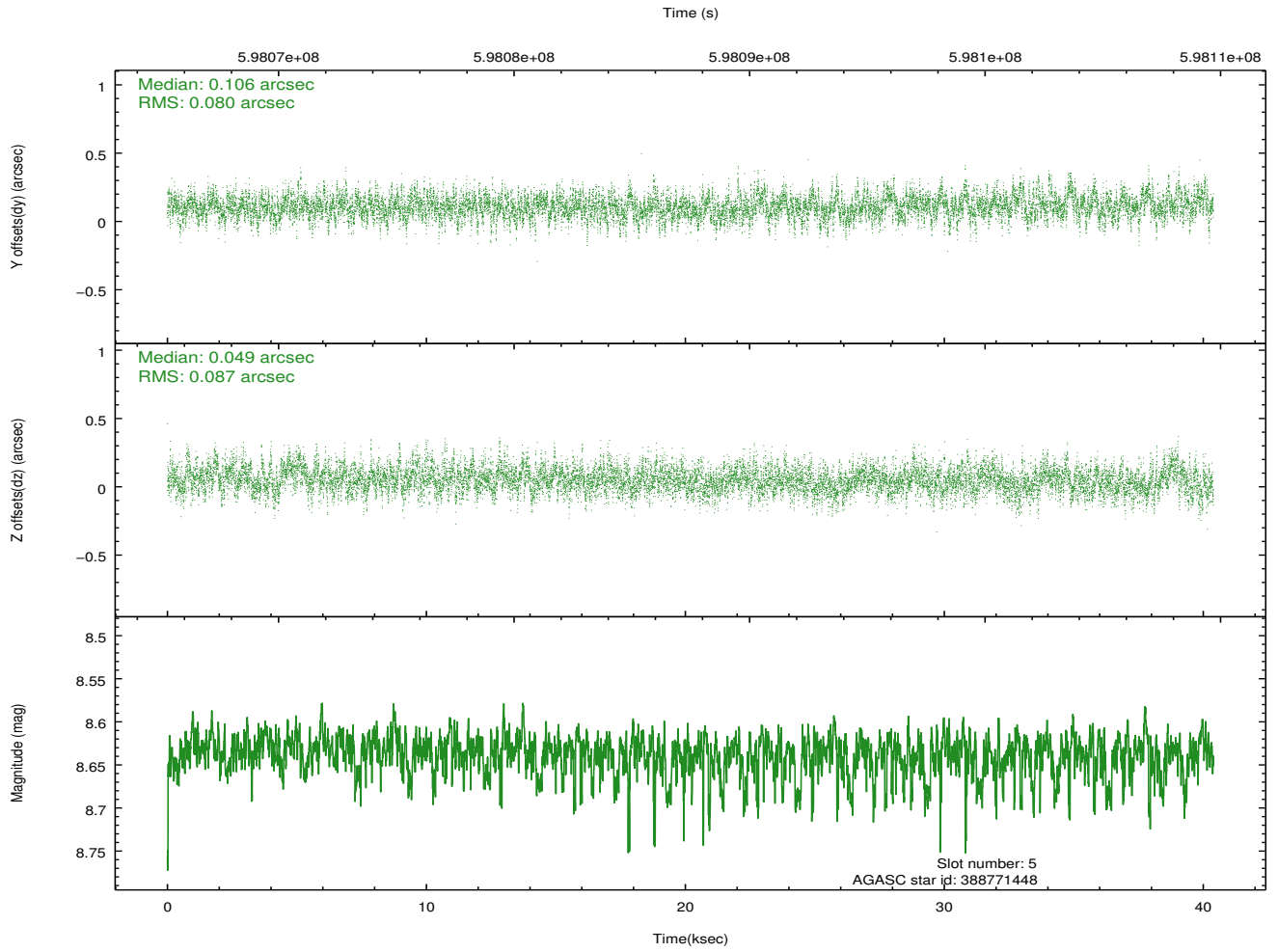
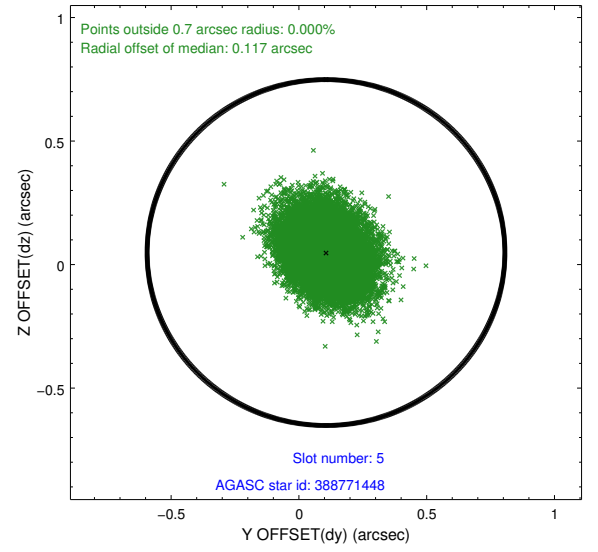
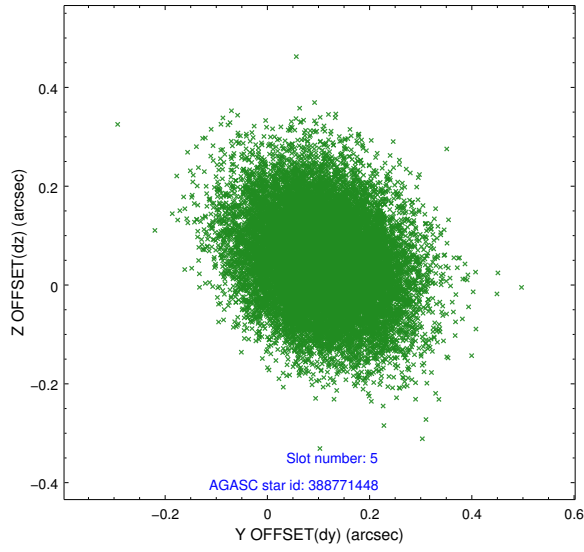
2.4.1 Slot 3



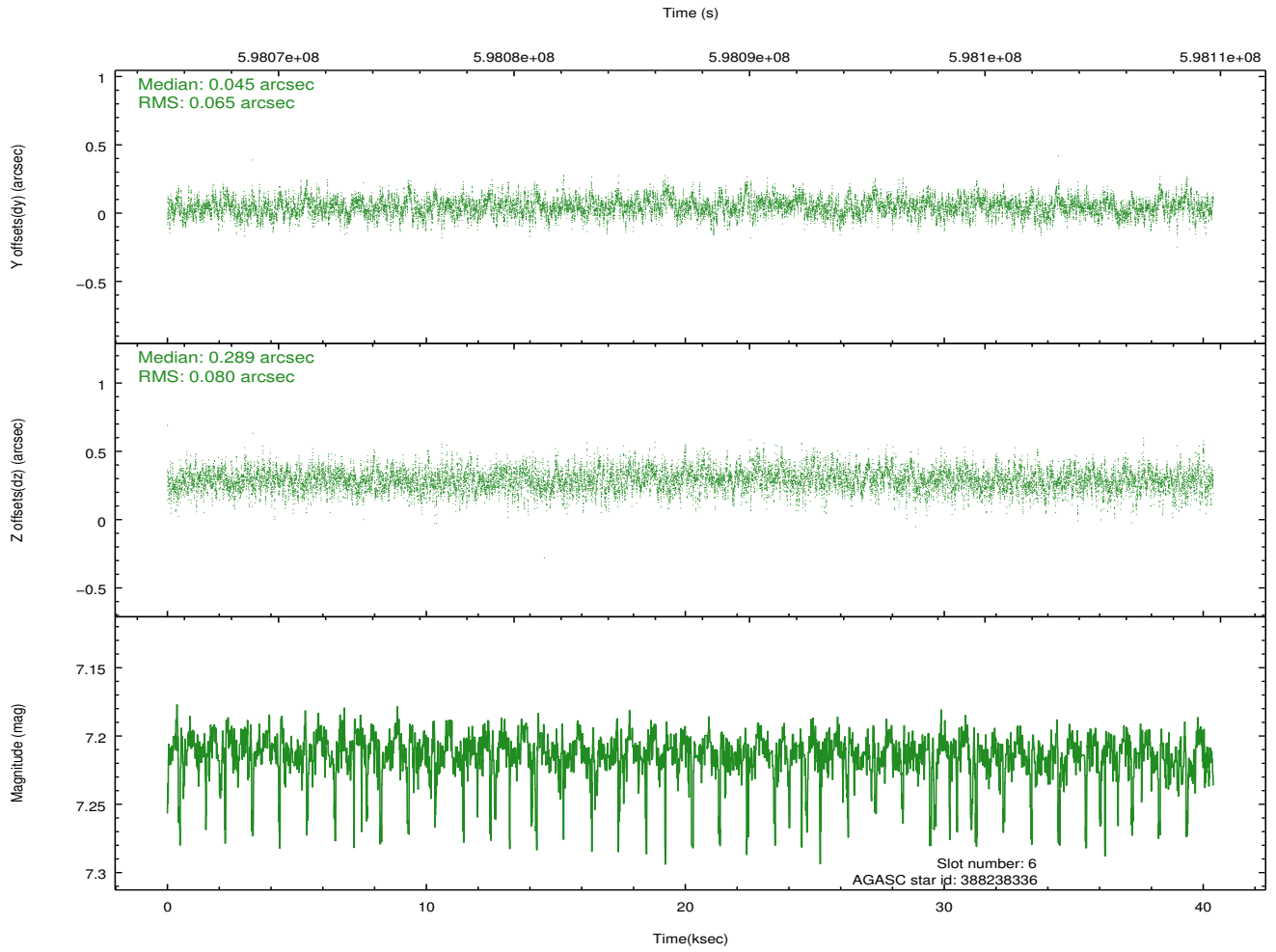
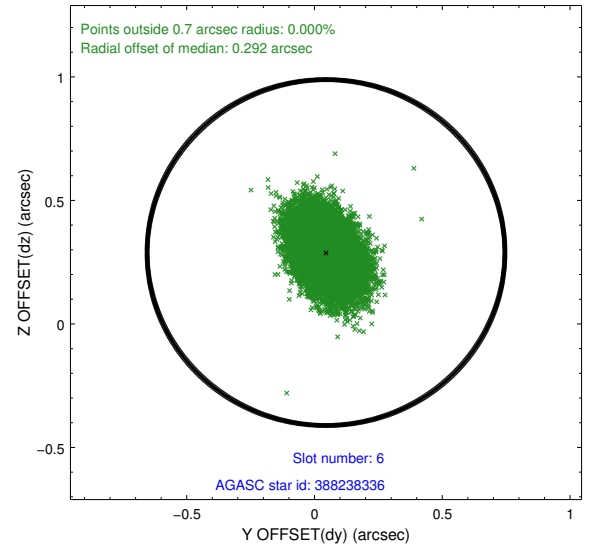
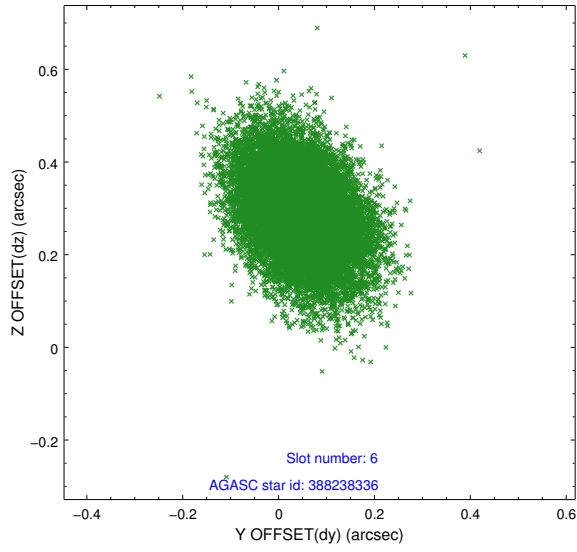
2.4.2 Slot 4



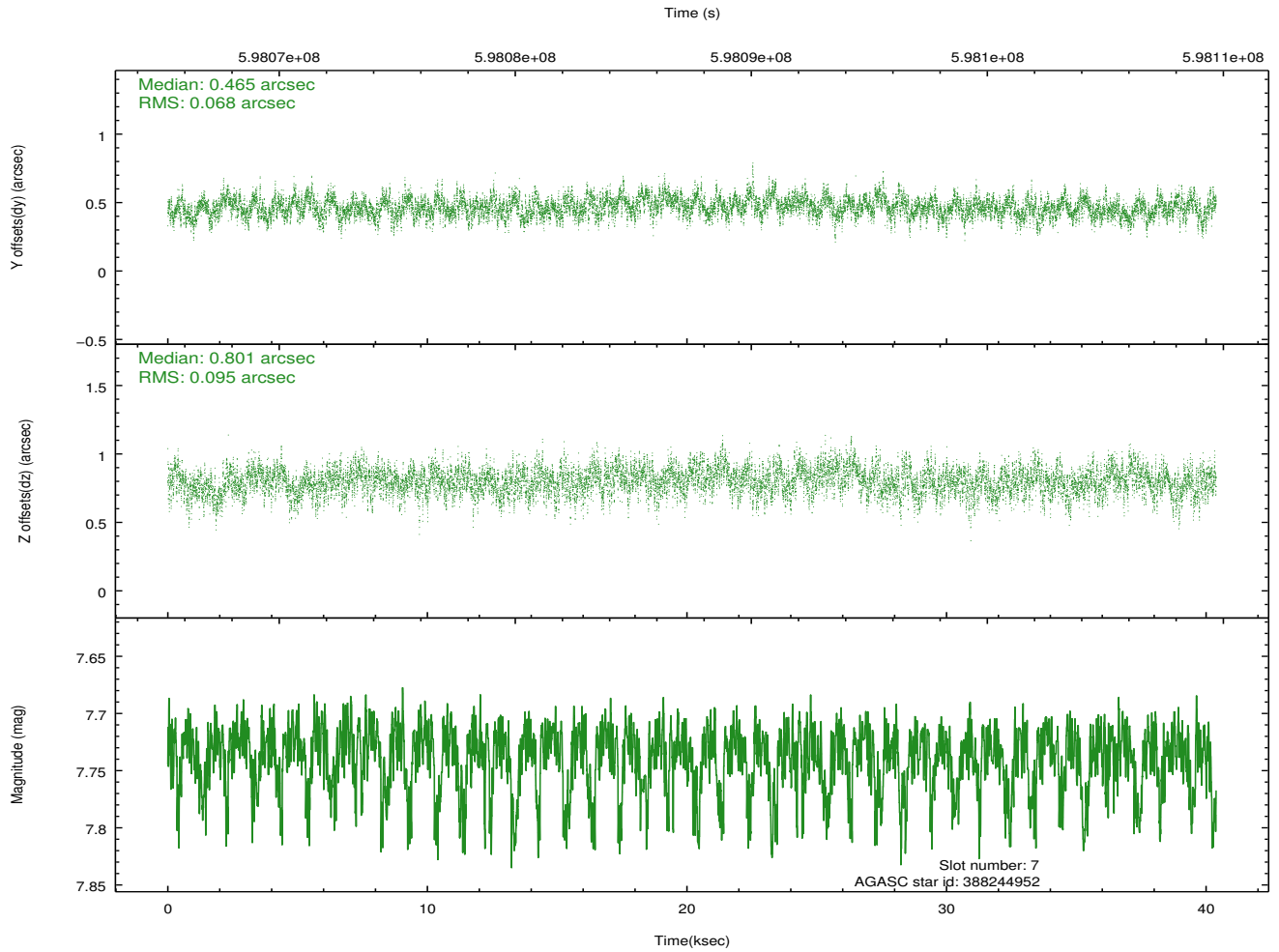
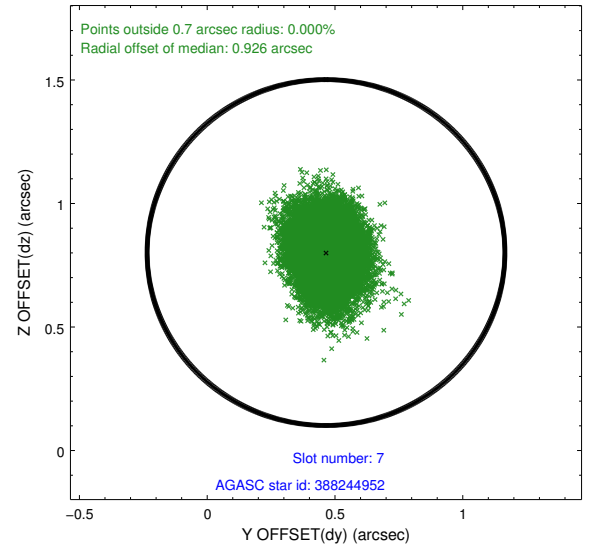
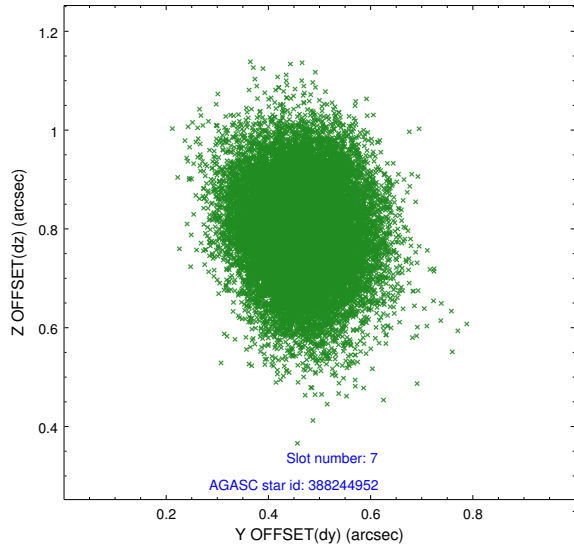
2.4.3 Slot 5



2.4.4 Slot 6

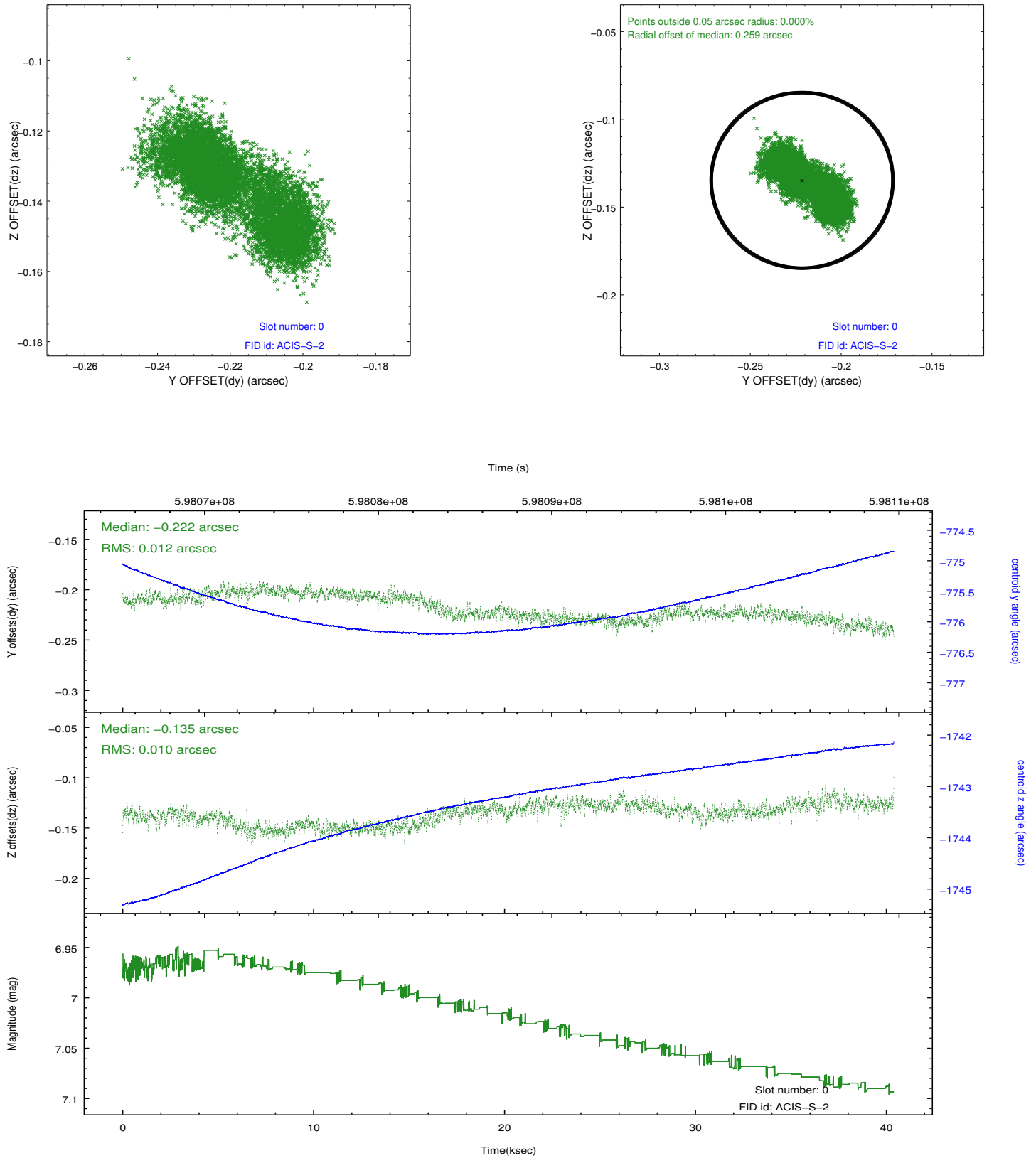


2.4.5 Slot 7

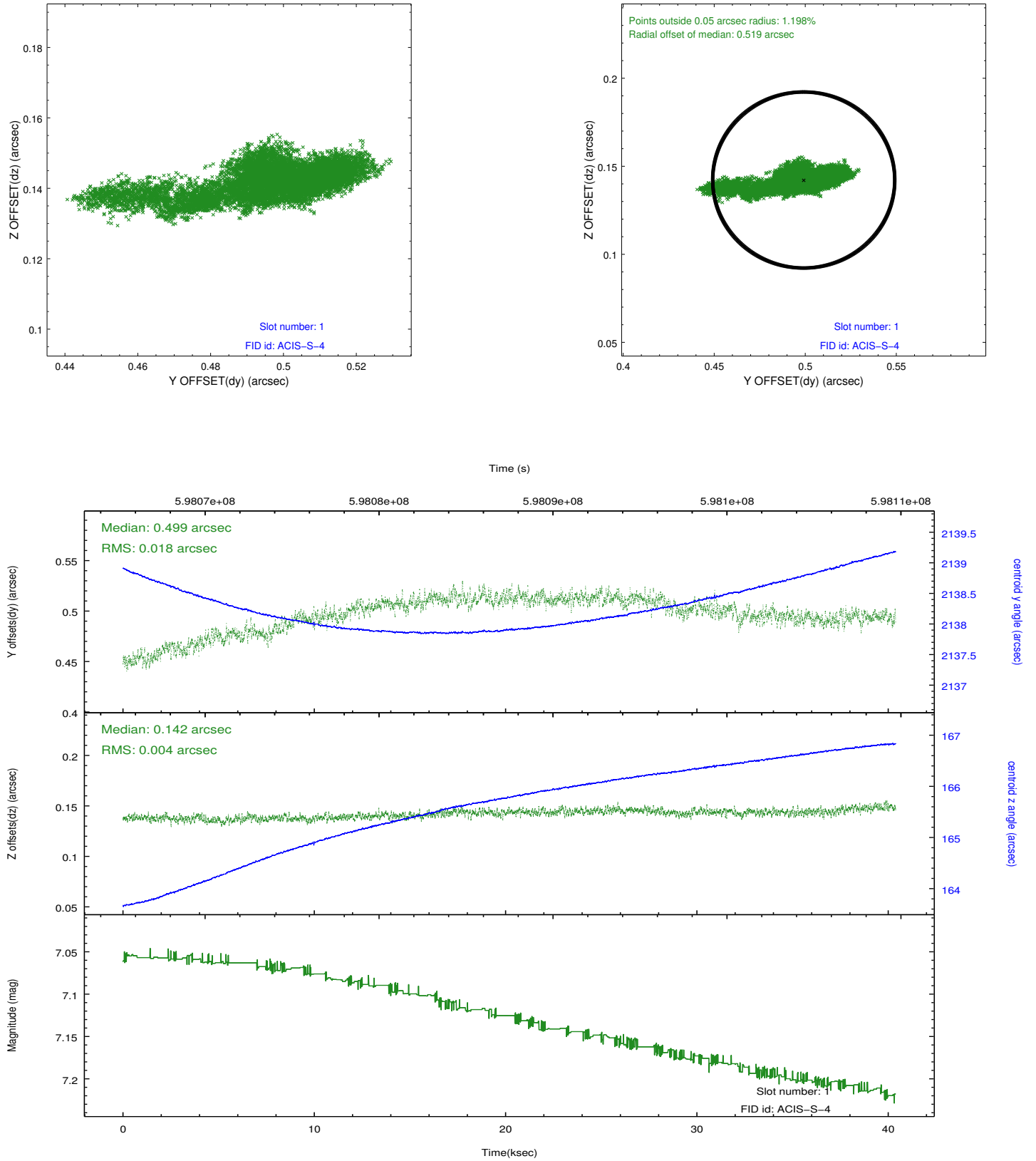


2.5 FID Slots

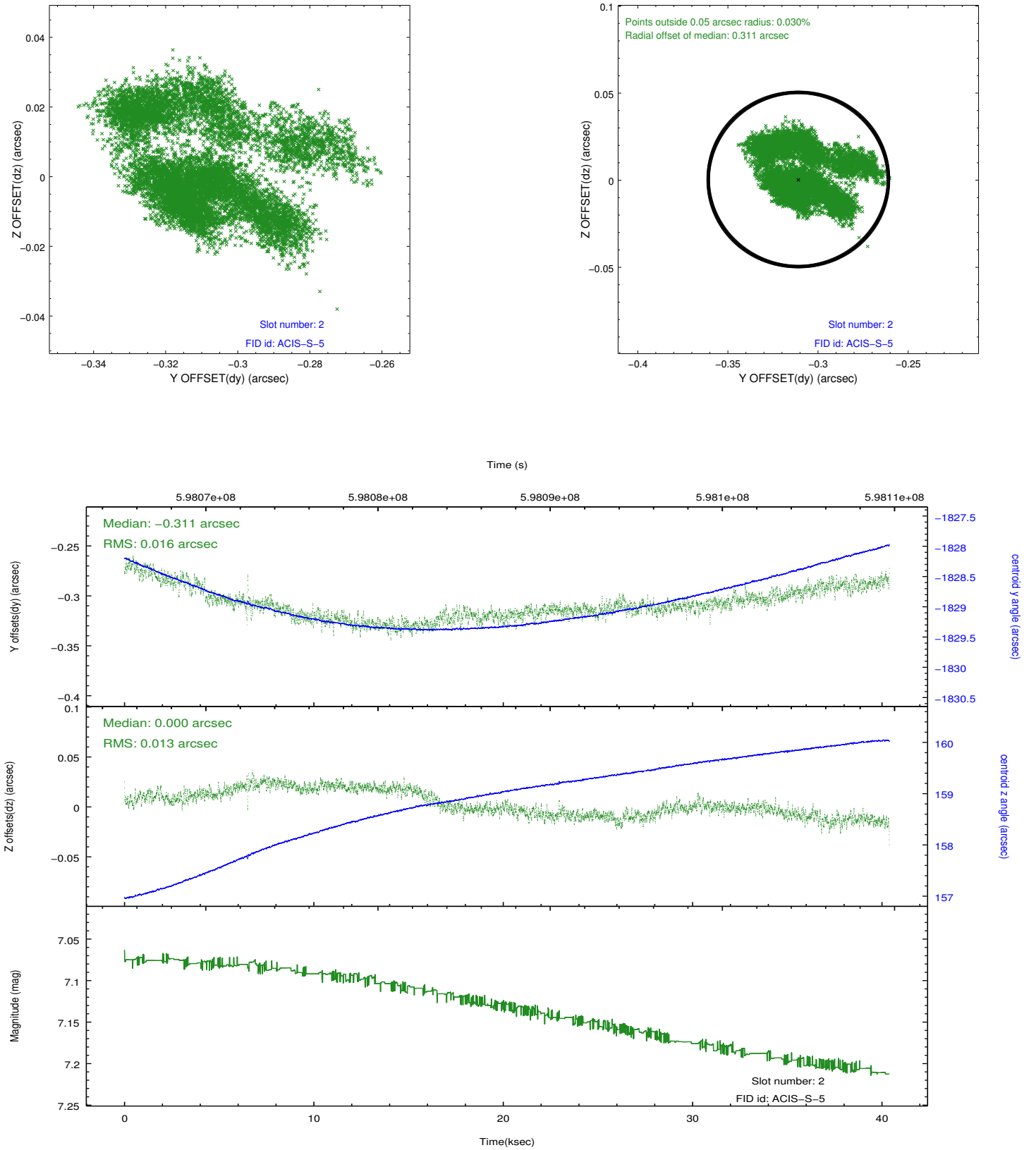
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.315500310183

A.2 Comments

Roll constraint met.