

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17554 - L2 Version 1
Chandra X-Ray Center

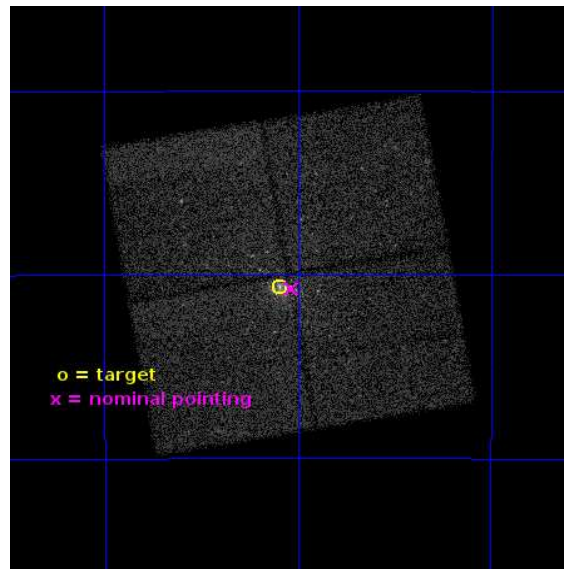
L2 Processing Date : Aug 21 2015

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1 Front

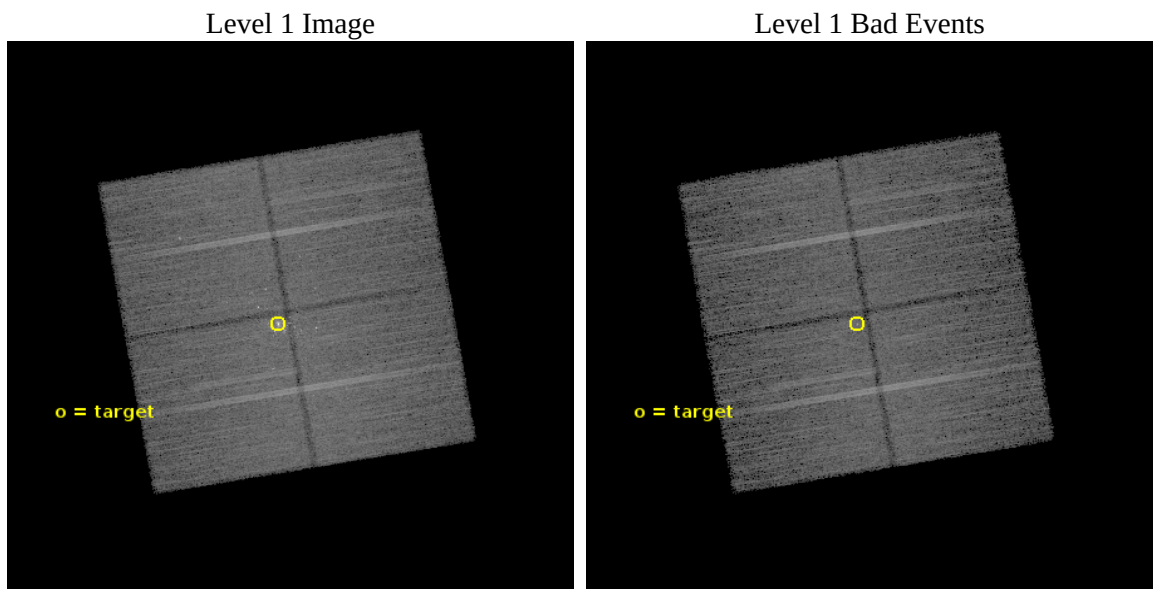
seq_num	201025	Sequence number
obs_id	17554	Observation id
title	RCW 38: Dynamical Evolution of a Rich Young Star Cluster	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	RCW 38	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.772917	Observer's specified target RA [deg]
dec_targ	-47.511111	Observer's specified target Dec [deg]
ra_nom	134.75826626968	Nominal RA [deg]
dec_nom	-47.512727764427	Nominal Dec [deg]
roll_nom	170.19789110706	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38536.059326291	Sum of GTIs [s]
livetime	38032.557341359	Livetime [s]
ontime0	38539.200296521	Sum of GTIs [s]
ontime1	38536.059306264	Sum of GTIs [s]
ontime2	38536.059306383	Sum of GTIs [s]
ontime3	38536.059326291	Sum of GTIs [s]
l2events	96564	Number of level 2 events



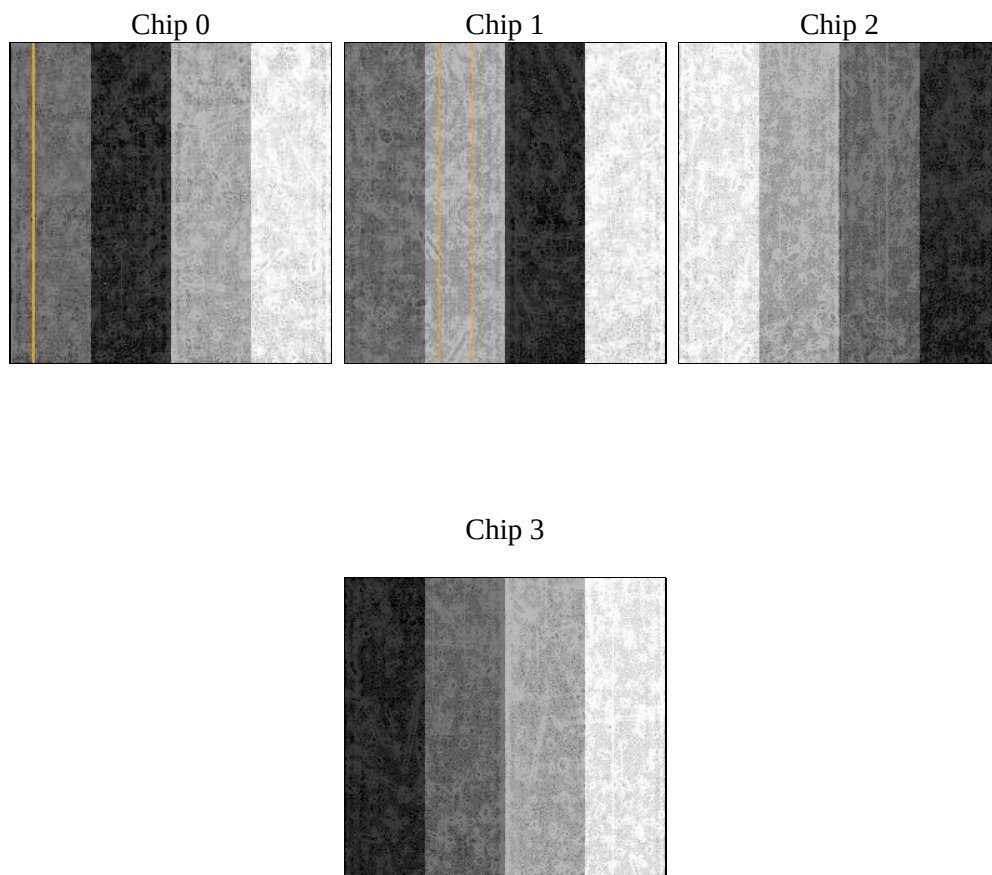
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38451.410000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	38536.059326291	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	38539.200296521	Sum of GTIs [s]
date	2015-08-22T00:04:30	Date and time of file creation	ontime1	38536.059306264	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	38536.059306383	Sum of GTIs [s]
			ontime3	38536.059326291	Sum of GTIs [s]
			l1events	796476	Number of level 1 events

2.1.4 Events

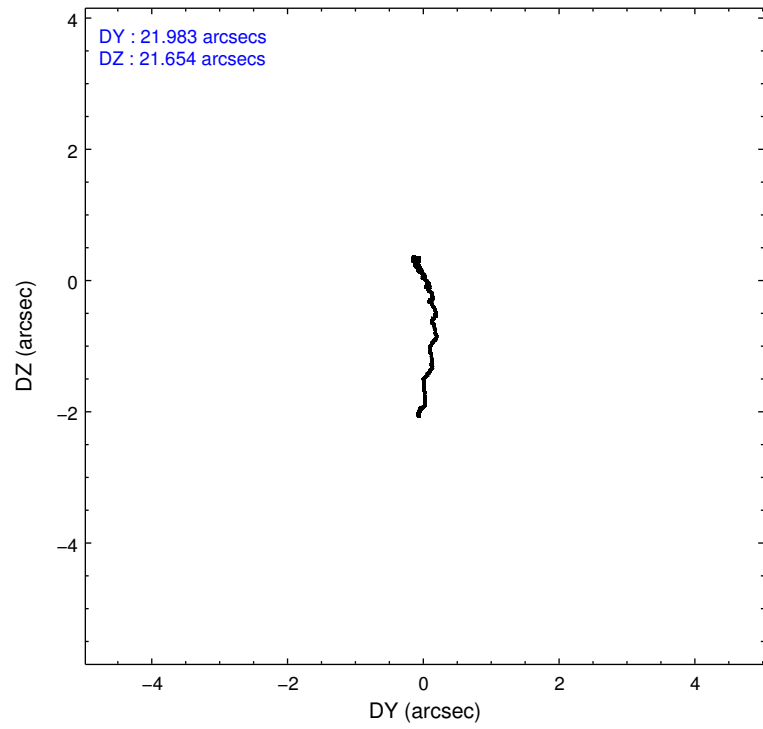
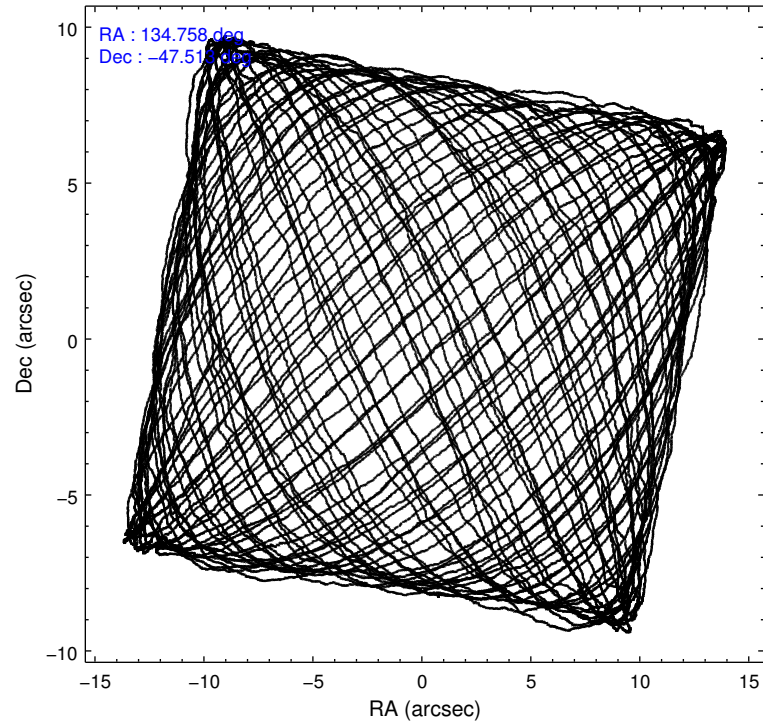
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	186024	196706	205933	207813
rejected events	160395	167764	179347	175936
rejected %	86%	85%	87%	84%

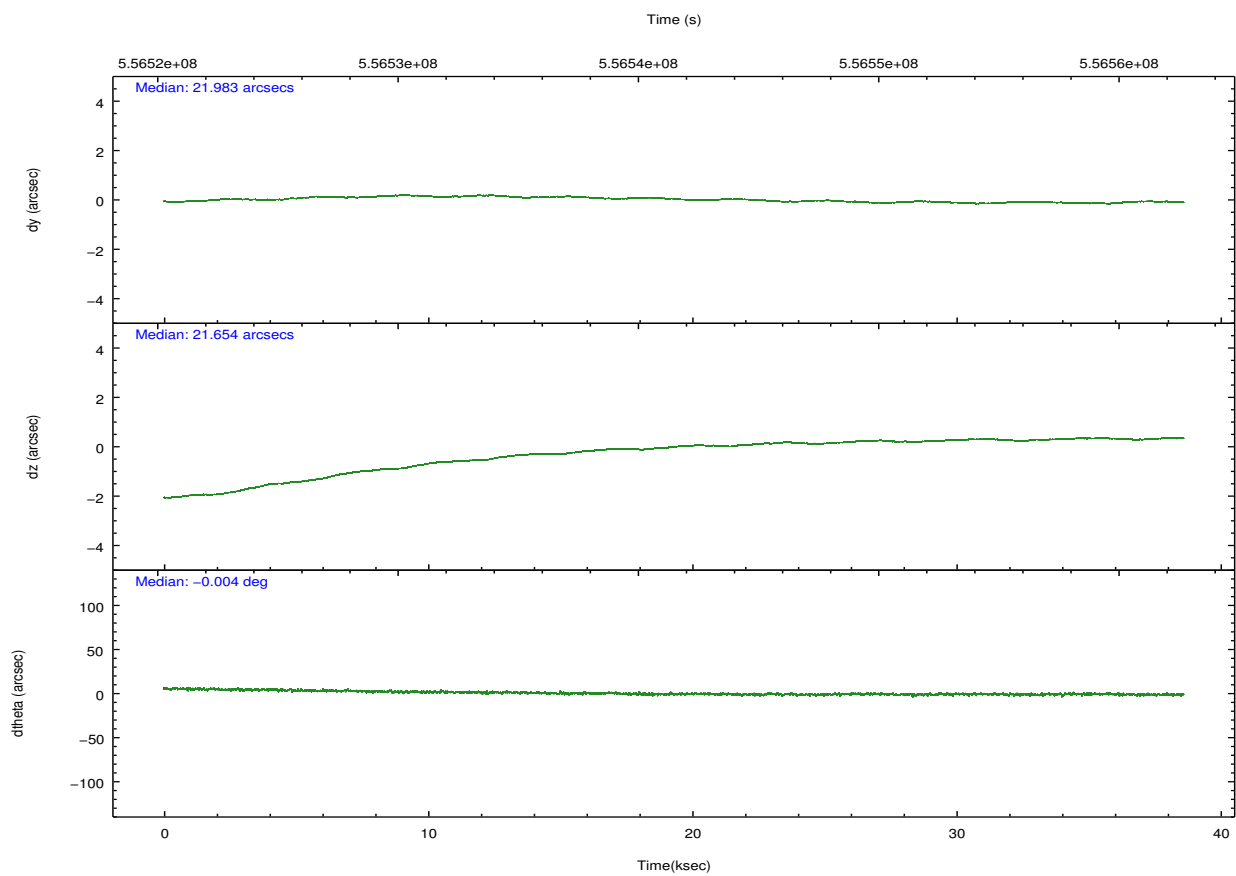
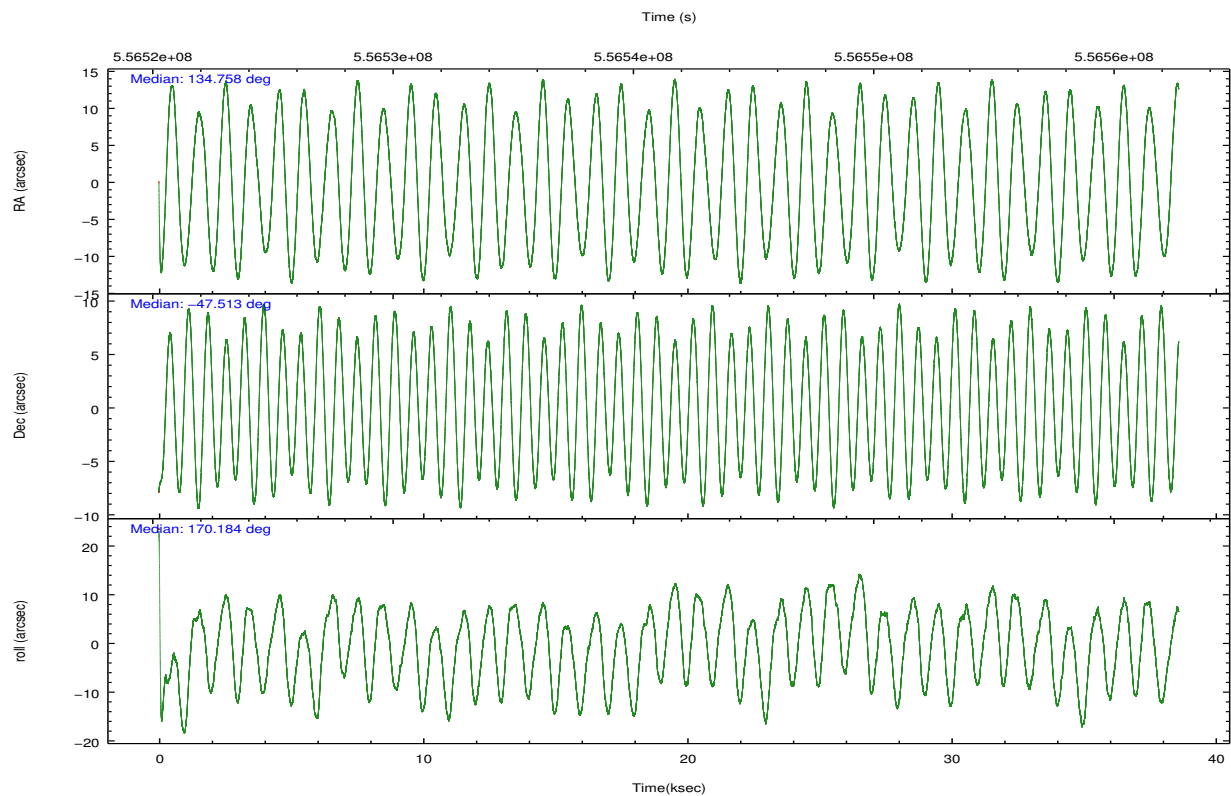
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9700	10668	10811	15662
	5%	5%	5%	7%
grade 1 events	103	80	123	226
	0%	0%	0%	0%
grade 2 events	6191	7049	6159	5949
	3%	3%	2%	2%
grade 3 events	2546	2594	2414	2729
	1%	1%	1%	1%
grade 4 events	2257	2560	2442	2575
	1%	1%	1%	1%
grade 5 events	9070	9702	8575	10317
	4%	4%	4%	4%
grade 6 events	4937	6073	4763	4962
	2%	3%	2%	2%
grade 7 events	151220	157980	170646	165393
	81%	80%	82%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	134.796560	134.758266269684	Subarray requested	NONE	NONE
[deg] Pointing Dec	-47.503101	-47.51272776442741	Alternating exposures requested	N	N
[deg] Pointing Roll	170.017428	170.1978911070642	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	556522302.184000	556520881.75177			
Observation start date	2015-08-21T05:30:34	2015-08-21T05:08:01			
[s] Observation end time (MET)	556560754.184000	556560987.95403			
Observation end date	2015-08-21T16:11:26	2015-08-21T16:16:27			
Read mode	TIMED	TIMED			

2.3 Aspect



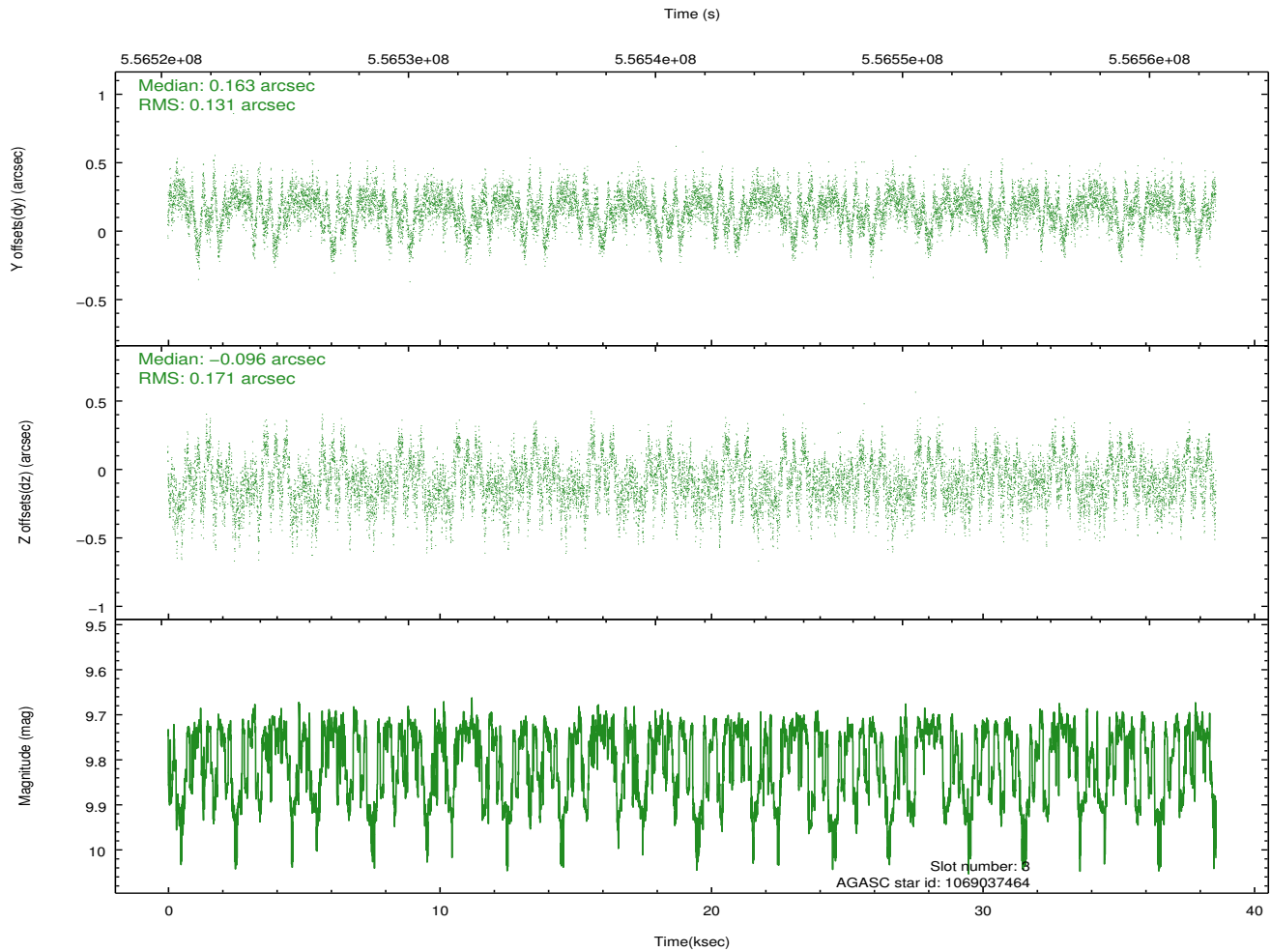
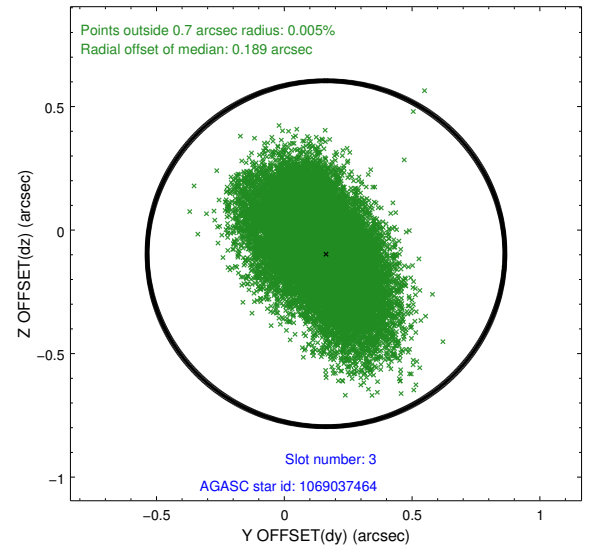
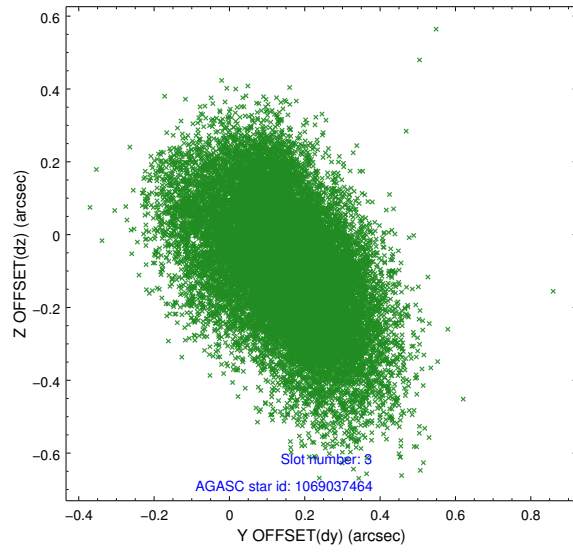


Slot Statistics

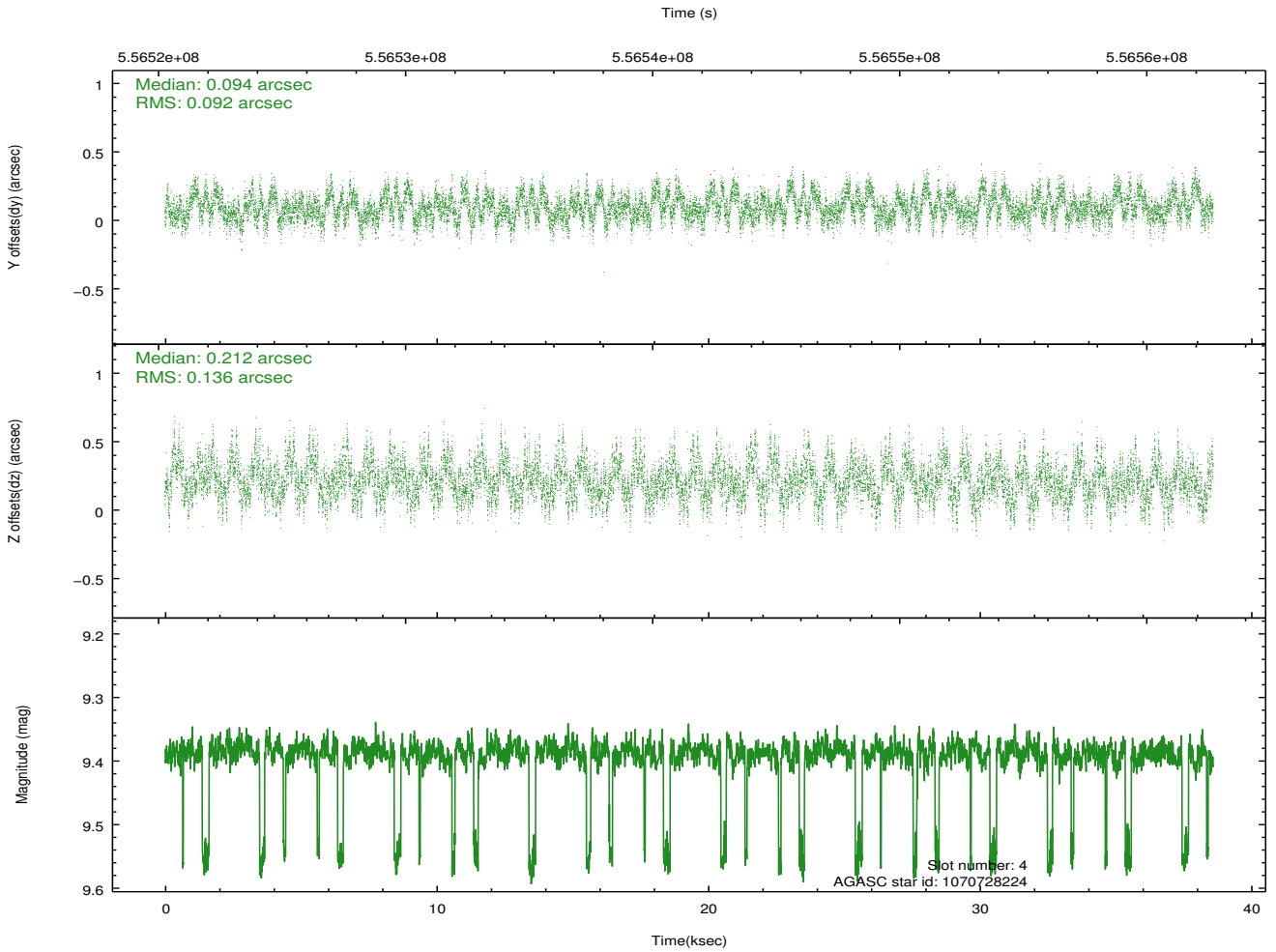
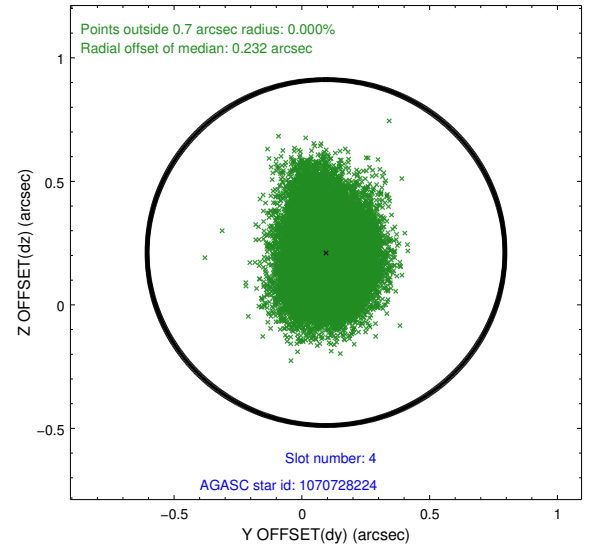
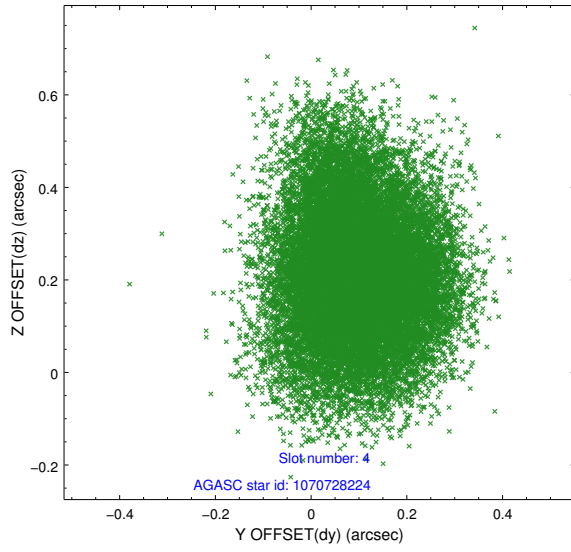
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	9415	-0.147	-0.104	0.017	0.037	0.000000	0.000000	917.16	-845.16
1	FID		ACIS-I-4	7.17	9414	0.166	0.157	0.014	0.031	0.000000	0.000000	2137.47	1054.93
2	FID		ACIS-I-6	7.25	9415	-0.116	0.014	0.022	0.031	0.000000	0.000000	383.04	1696.95
3	GUIDE	used	1069037464	9.79	18803	0.163	-0.096	0.230	0.378	134.998897	-47.630937	-562.92	368.90
4	GUIDE	used	1070728224	9.39	18817	0.094	0.212	0.174	0.285	135.106055	-47.256225	-590.15	-1004.72
5	GUIDE	used	1070729248	8.70	18814	-0.085	0.140	0.095	0.152	135.048995	-47.118313	-368.24	-1470.42
6	GUIDE	used	1070729592	7.20	18829	-0.093	-0.020	0.094	0.170	135.107946	-47.337671	-644.77	-716.63
7	GUIDE	used	1070732896	9.30	18818	-0.073	-0.237	0.123	0.204	135.134392	-47.701164	-929.91	561.96

2.4 Star Slots

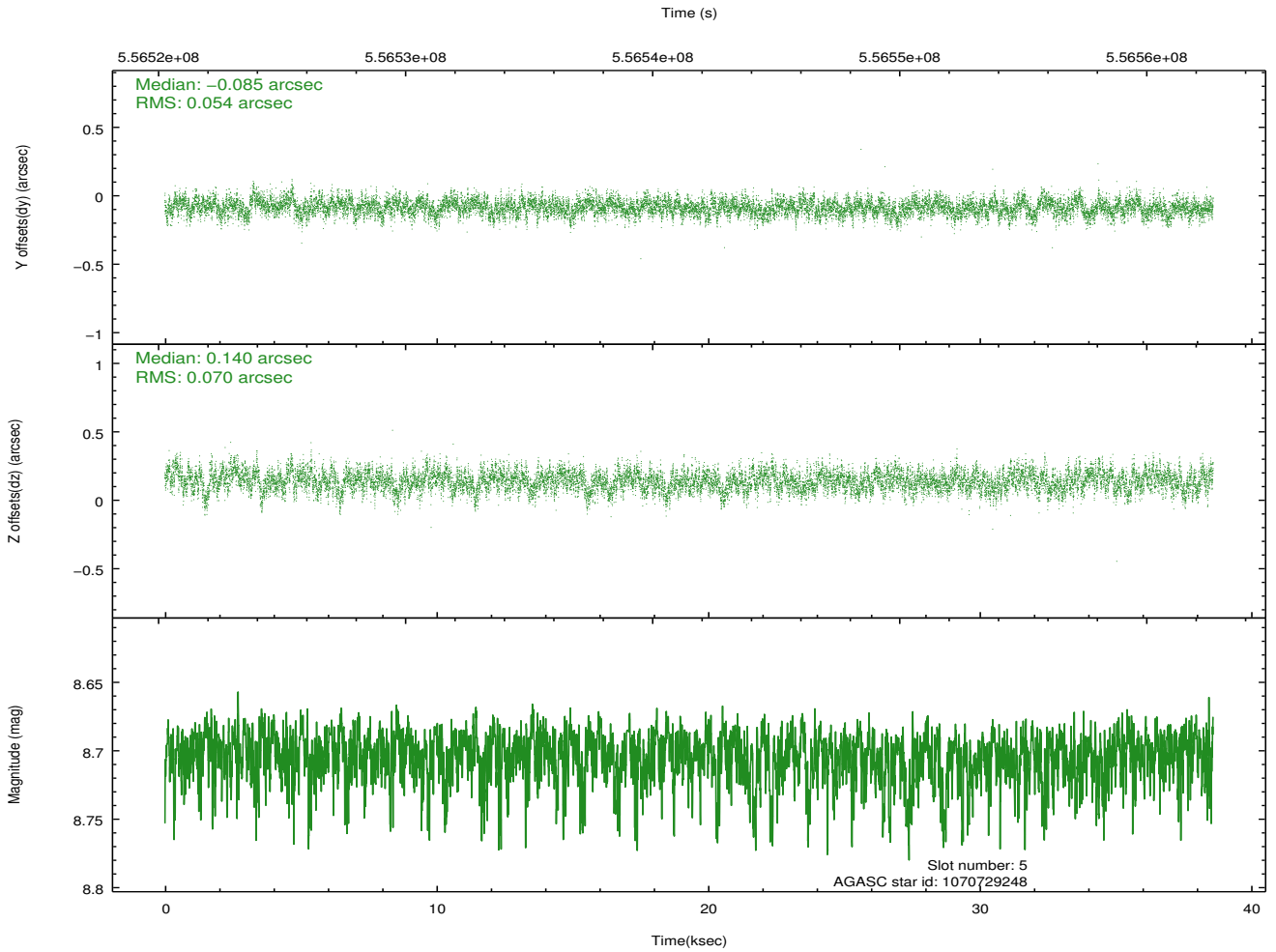
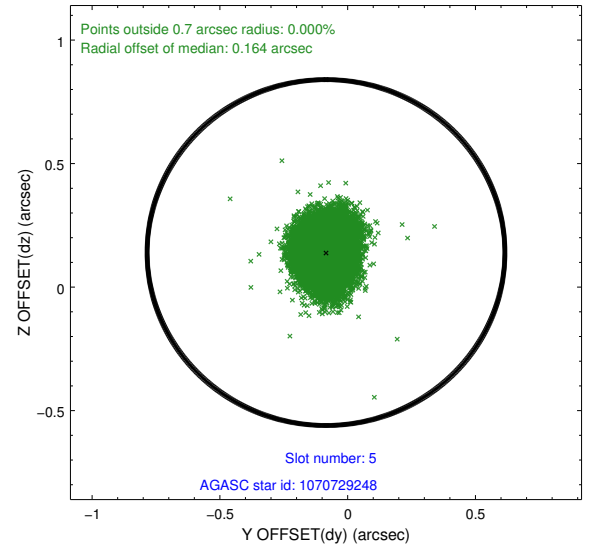
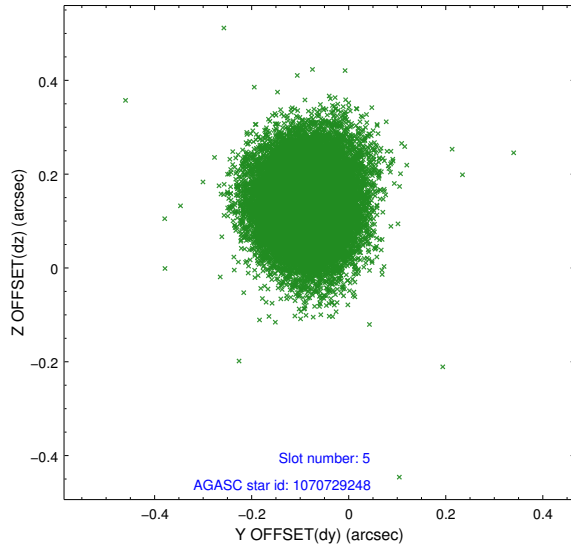
2.4.1 Slot 3



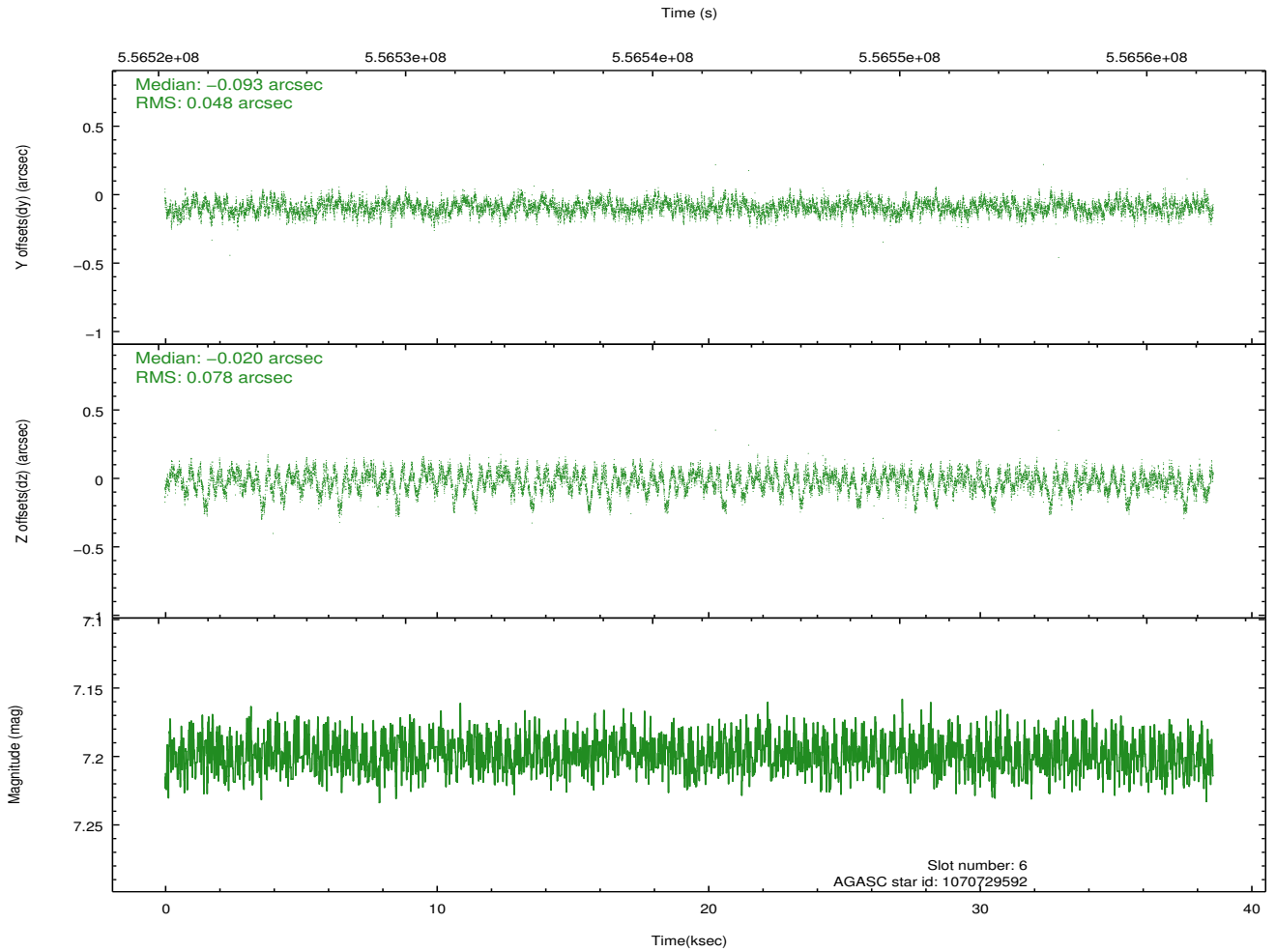
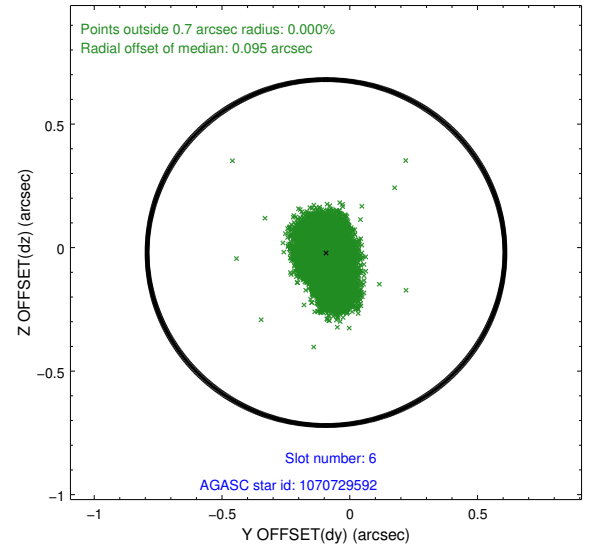
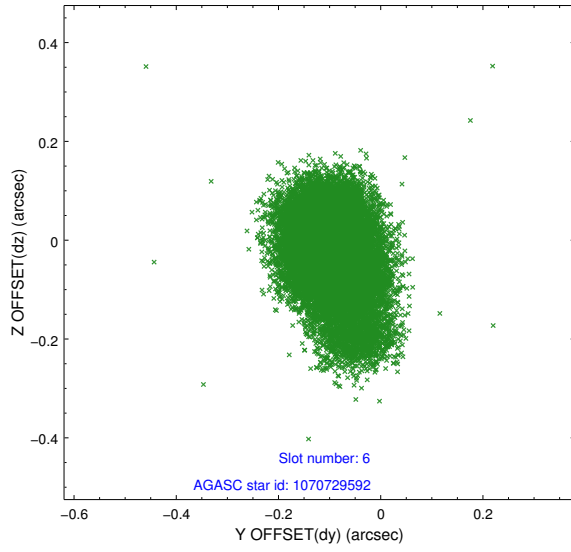
2.4.2 Slot 4



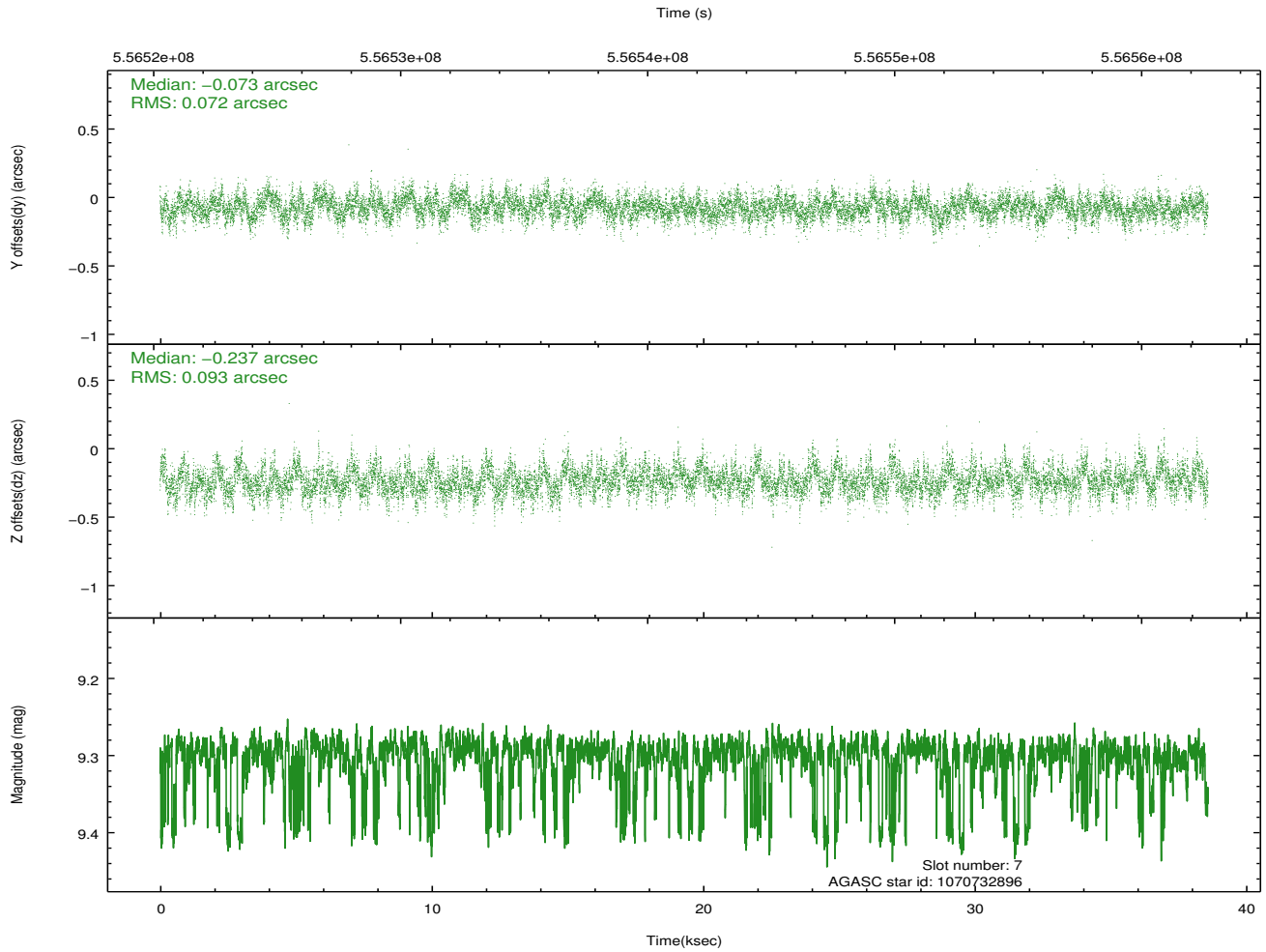
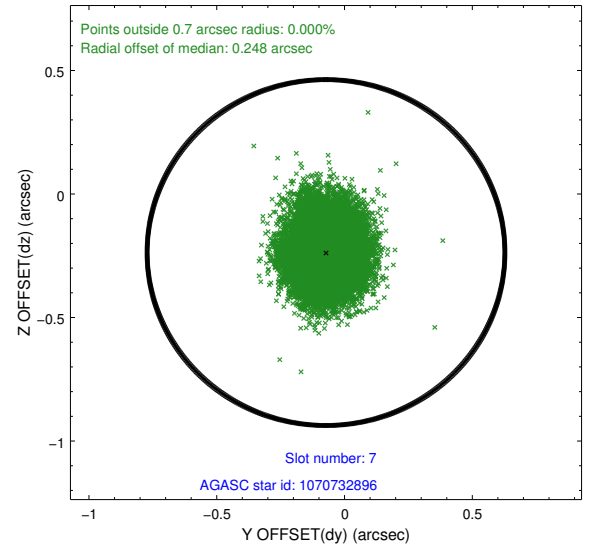
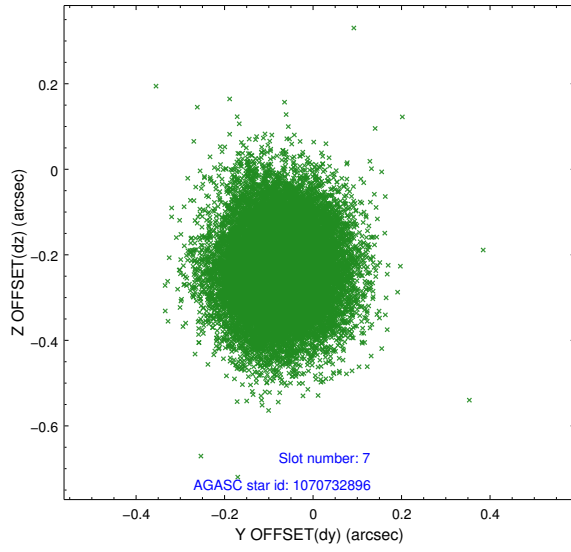
2.4.3 Slot 5



2.4.4 Slot 6

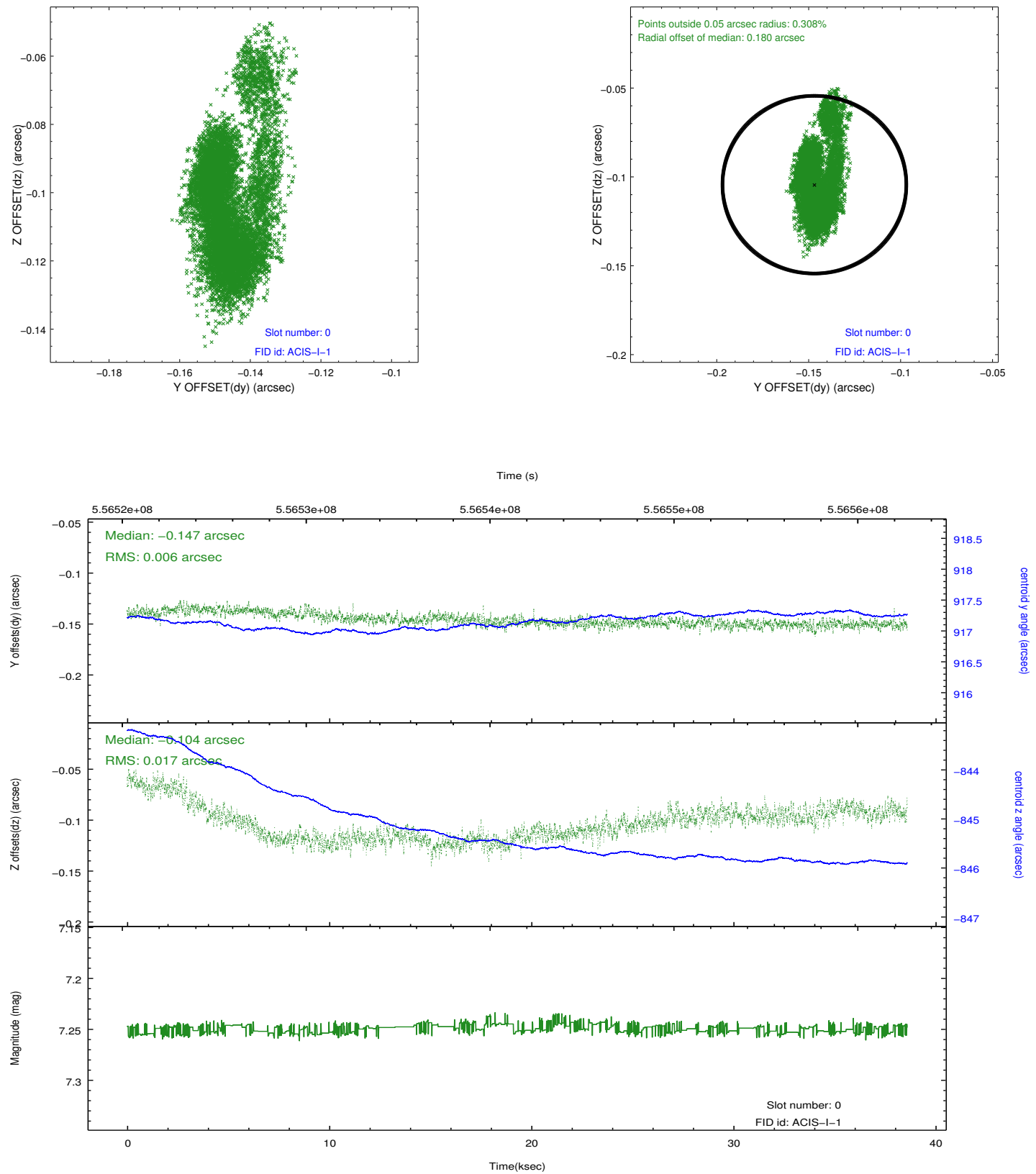


2.4.5 Slot 7

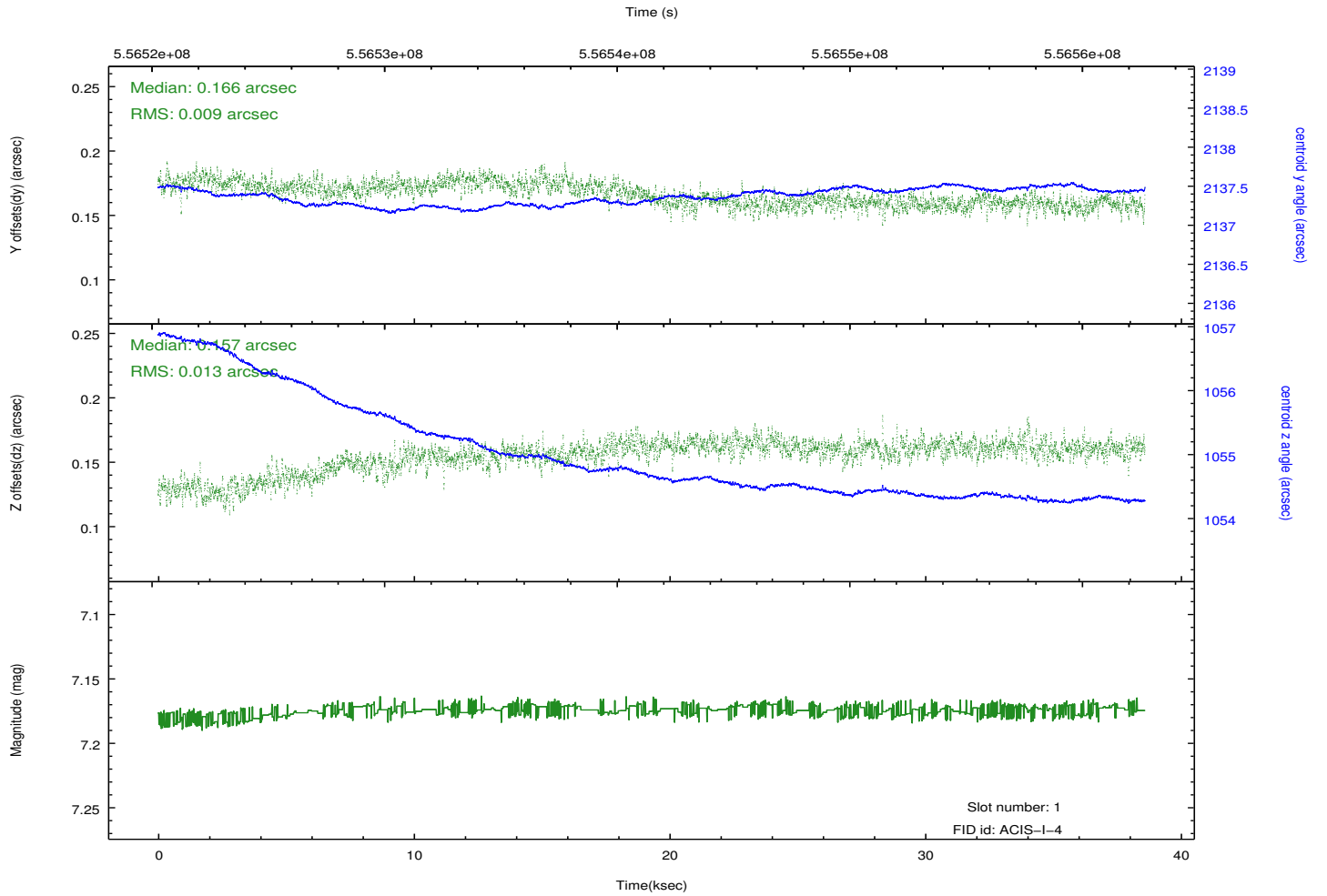
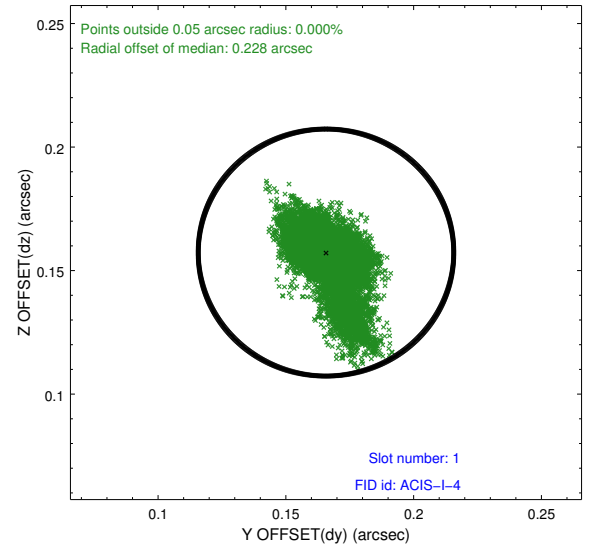
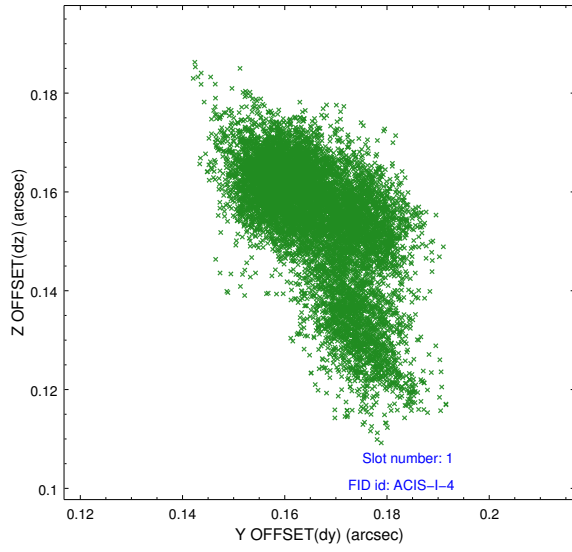


2.5 FID Slots

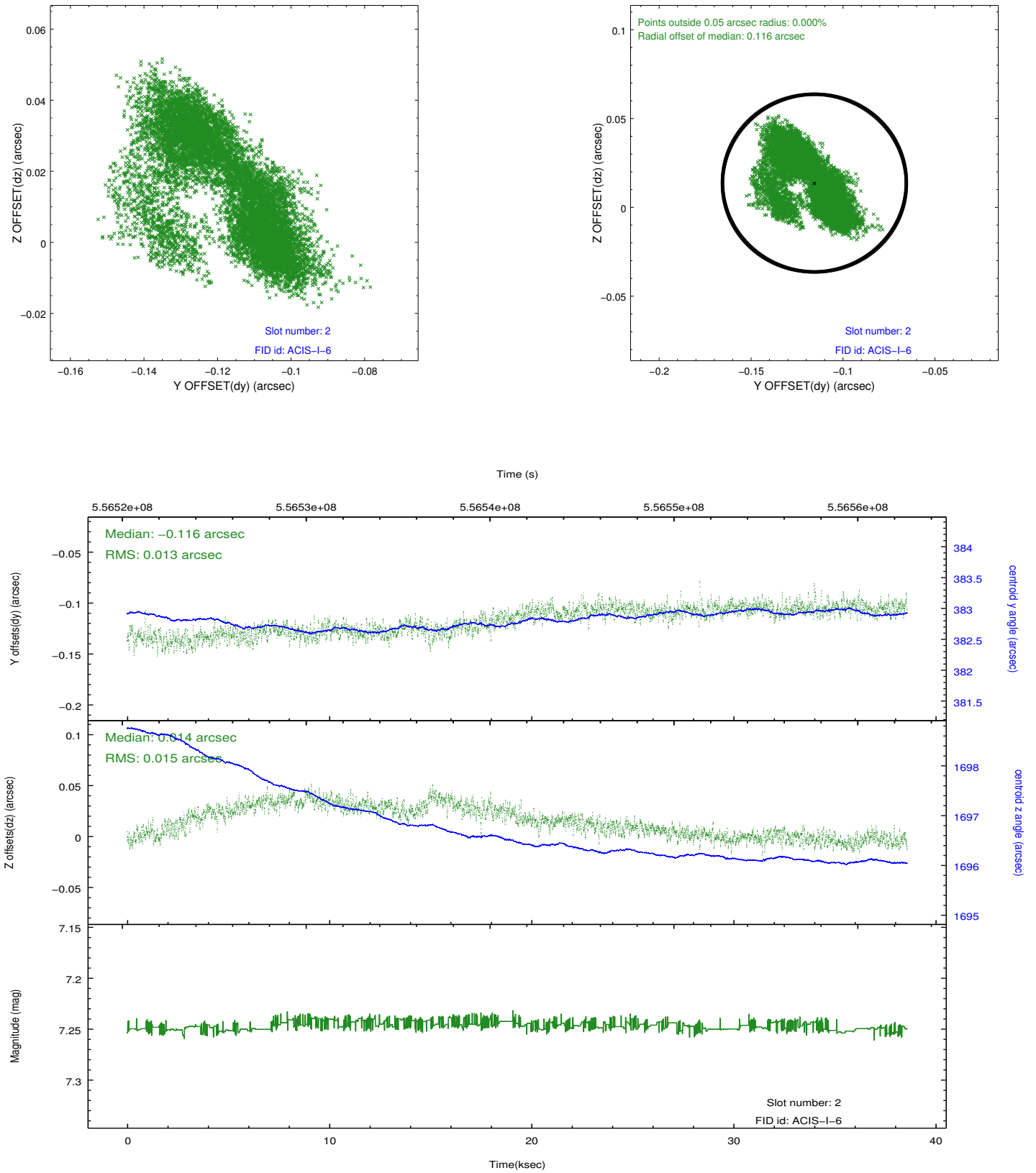
2.5.1 Slot 0



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)	2015.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.536059326291

A.2 Comments