

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18791 - L2 Version 2
Chandra X-Ray Center

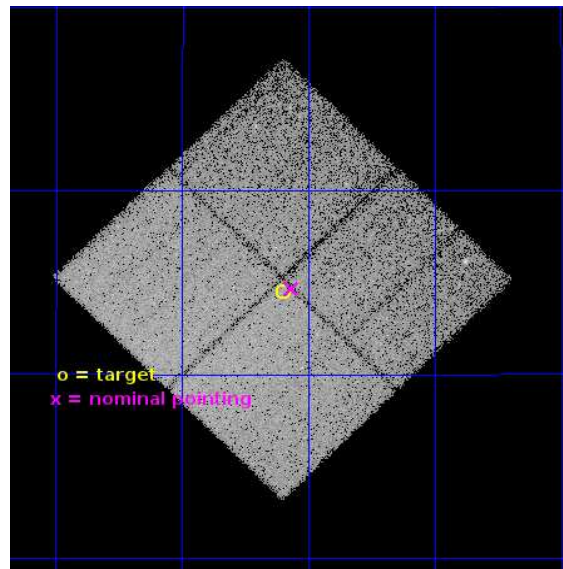
L2 Processing Date : Mar 10 2016

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1 Front

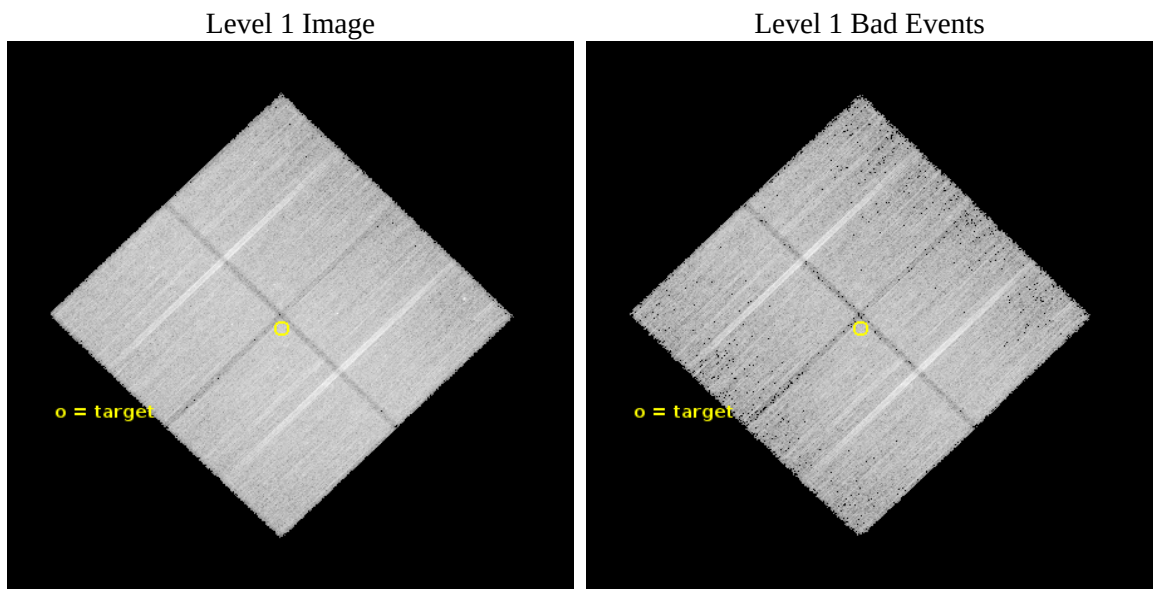
seq_num	801595	Sequence number
obs_id	18791	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.64201162642	Nominal RA [deg]
dec_nom	28.077723252193	Nominal Dec [deg]
roll_nom	135.21225202331	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35079.559209943	Sum of GTIs [s]
livetime	34621.218943669	Livetime [s]
ontime0	35073.277278543	Sum of GTIs [s]
ontime1	35066.995028377	Sum of GTIs [s]
ontime2	35076.418149471	Sum of GTIs [s]
ontime3	35079.559209943	Sum of GTIs [s]
l2events	182457	Number of level 2 events



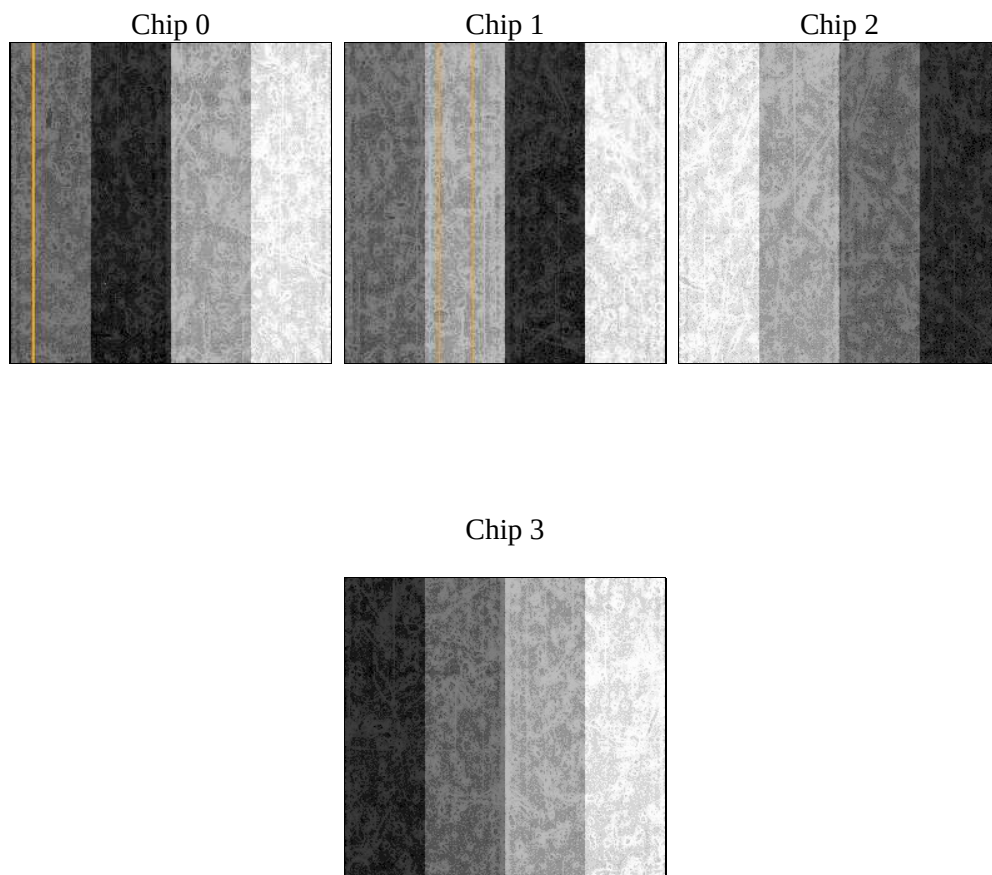
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	35079.559209943	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	35073.277278543	Sum of GTIs [s]
date	2016-03-10T18:57:04	Date and time of file creation	ontime1	35066.995028377	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	35076.418149471	Sum of GTIs [s]
			ontime3	35079.559209943	Sum of GTIs [s]
			l1events	940715	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	207351	247293	233867	252204
rejected events	169578	181312	194393	192212
rejected %	81%	73%	83%	76%

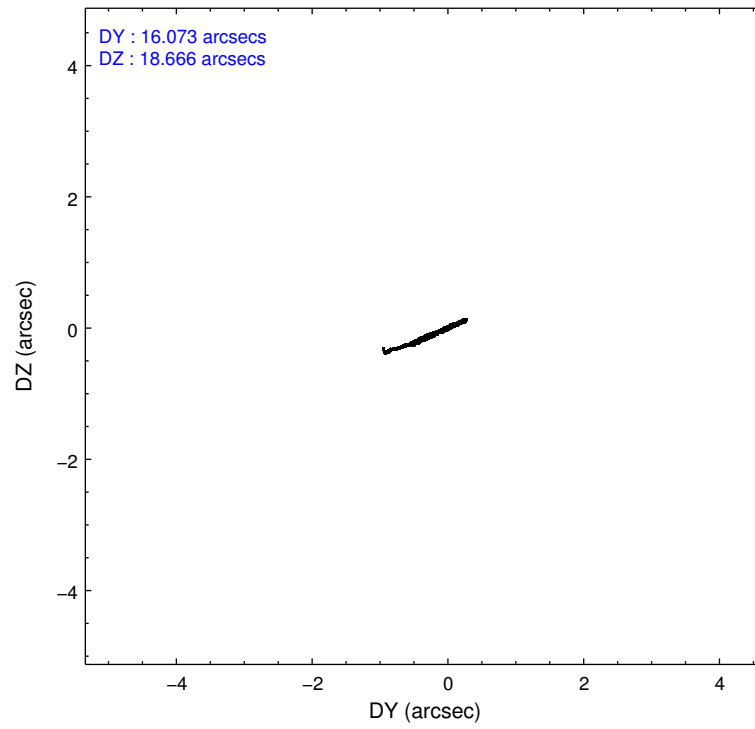
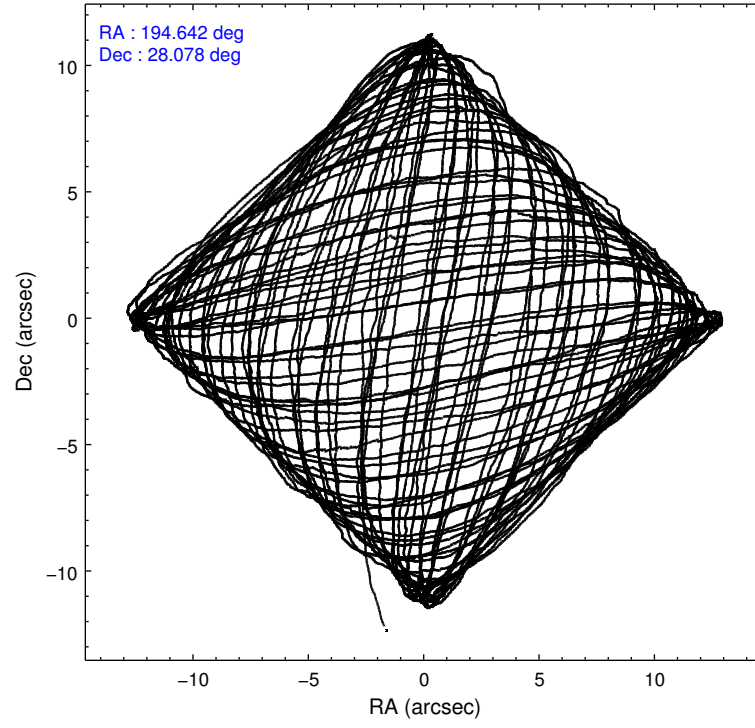
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	19097	39599	21369	37516
	9%	16%	9%	14%
grade 1 events	166	211	186	260
	0%	0%	0%	0%
grade 2 events	7323	11553	7217	8953
	3%	4%	3%	3%
grade 3 events	3015	3790	2895	3729
	1%	1%	1%	1%
grade 4 events	2866	3716	2790	3769
	1%	1%	1%	1%
grade 5 events	9358	9694	8772	10656
	4%	3%	3%	4%
grade 6 events	5478	7333	5208	6037
	2%	2%	2%	2%
grade 7 events	160048	171397	185430	181284
	77%	69%	79%	71%

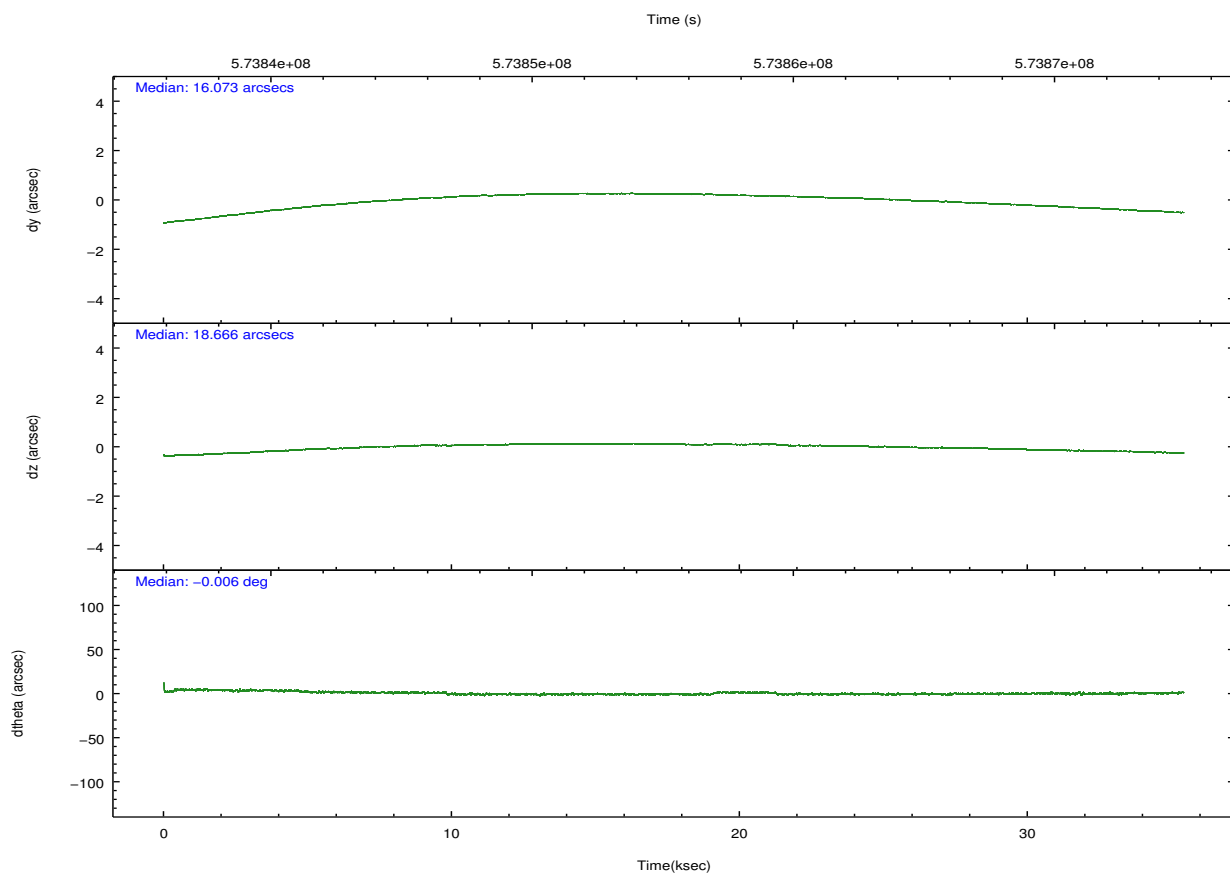
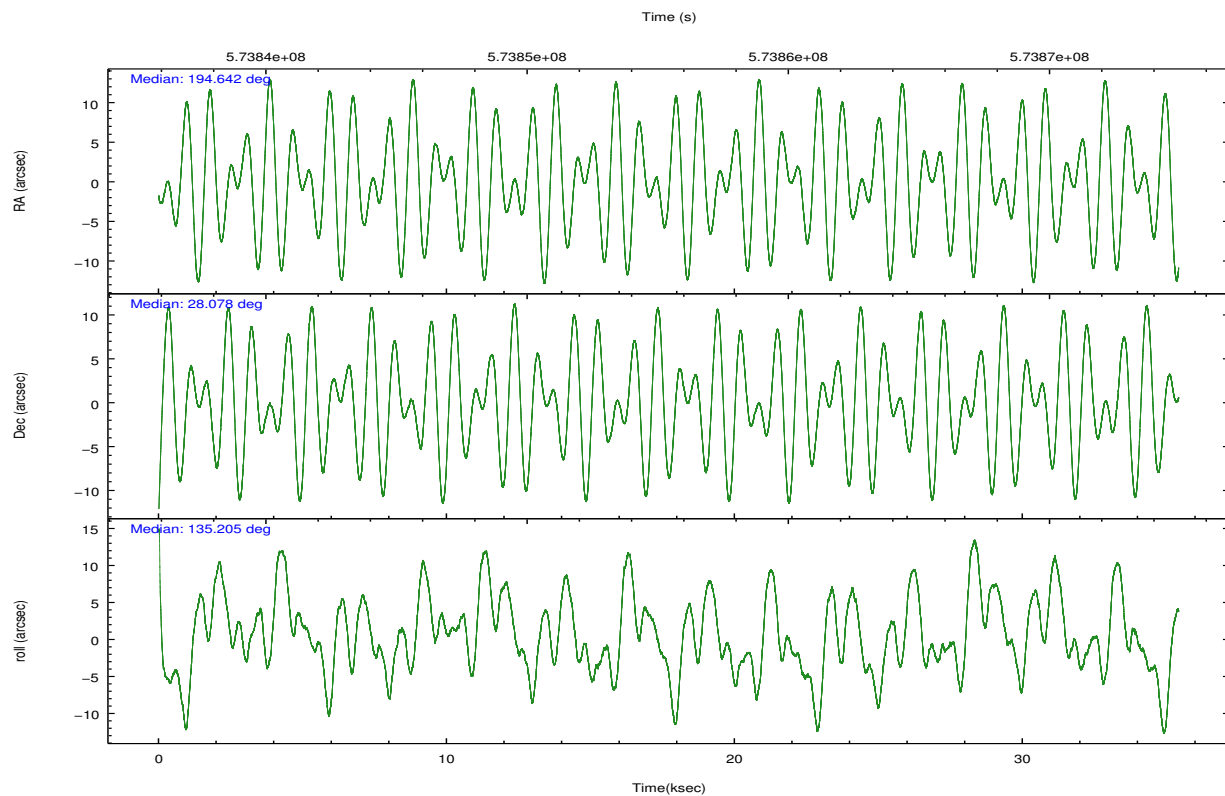
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	194.672297	194.6420116264195
[deg] Pointing Dec	28.070769	28.07772325219328
[deg] Pointing Roll	134.989303	135.212252023306
[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)	573838129.184000	573837130.95767
Observation start date	2016-03-08T15:27:41	2016-03-08T15:12:10
[s] Observation end time (MET)	573873129.184000	573873646.5847501
Observation end date	2016-03-09T01:11:01	2016-03-09T01:20:46
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



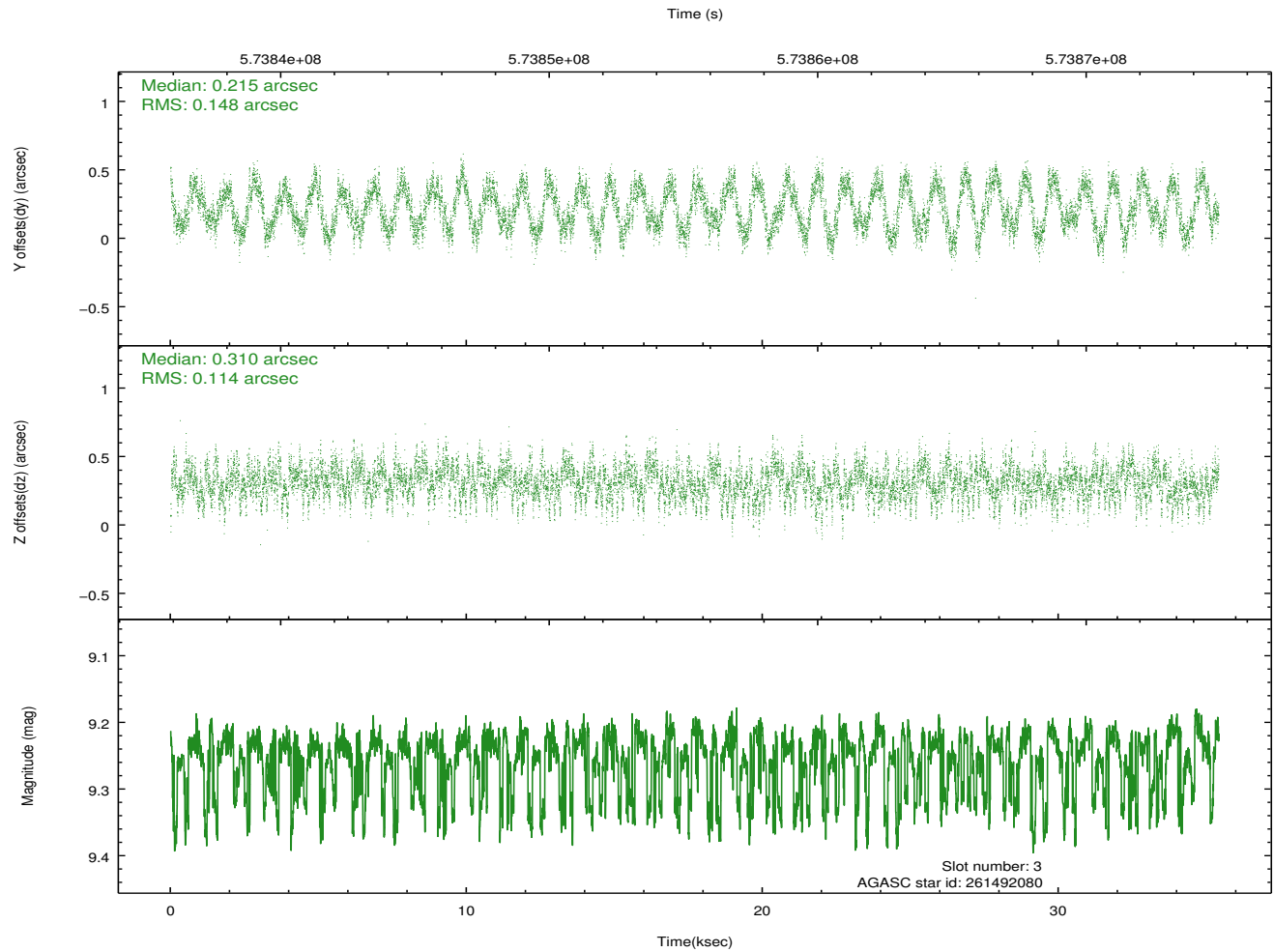
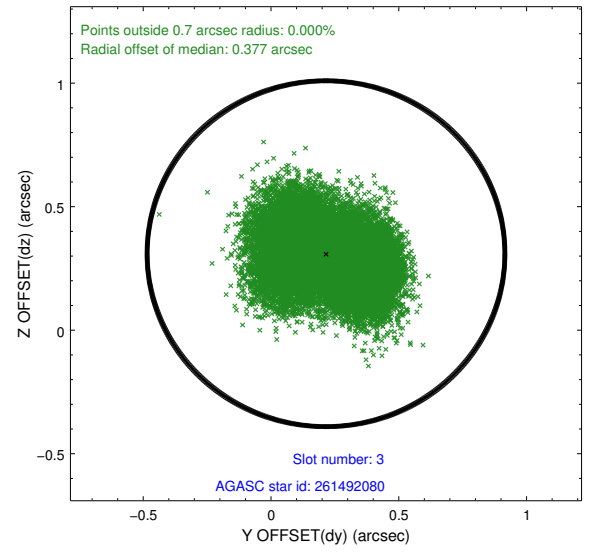
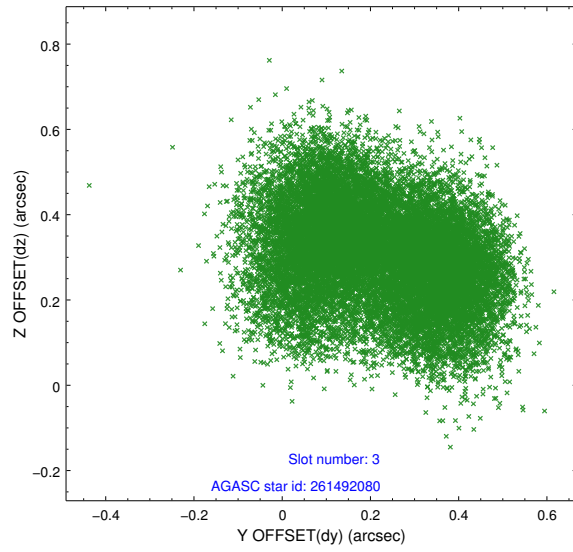


Slot Statistics

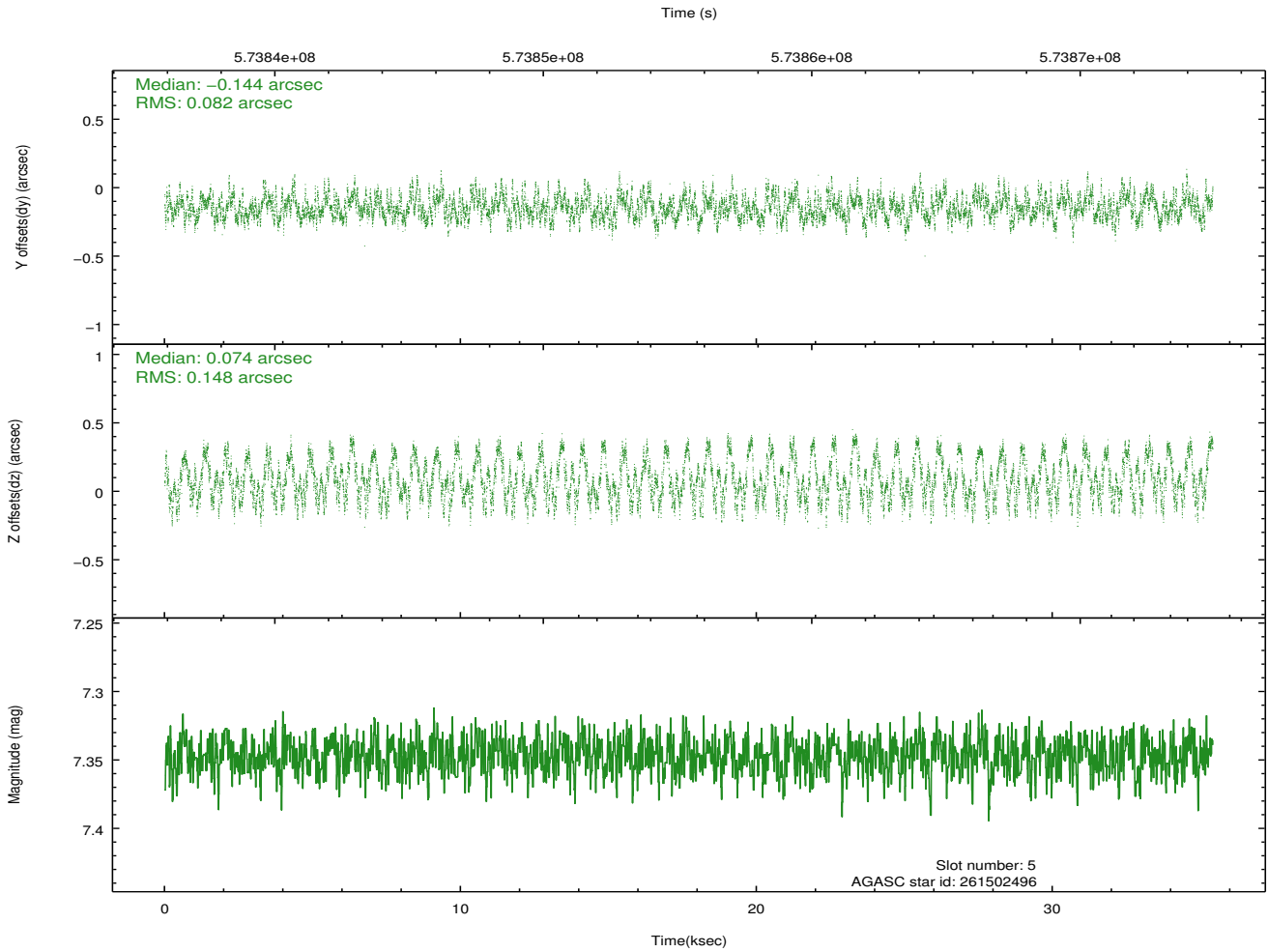
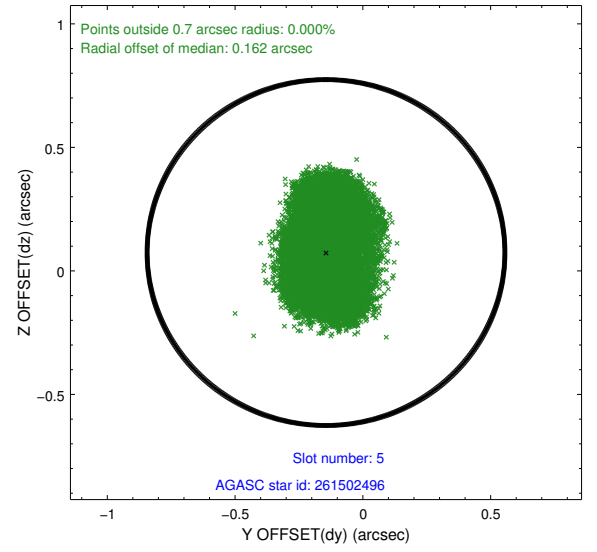
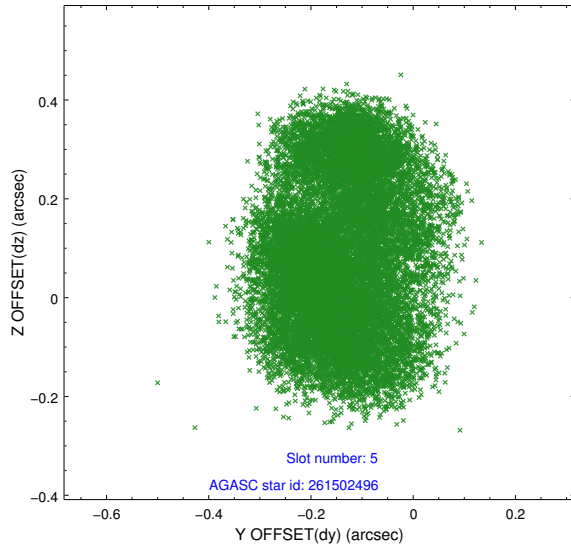
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	8639	-0.038	-0.038	0.015	0.026	0.000000	0.000000	923.45	-842.31
1	FID		ACIS-I-4	7.20	8637	0.417	0.069	0.019	0.029	0.000000	0.000000	2143.86	1057.65
2	FID		ACIS-I-5	7.25	8639	-0.479	0.041	0.013	0.022	0.000000	0.000000	-1825.05	1055.29
3	GUIDE	used	261492080	9.25	17263	0.215	0.310	0.207	0.302	194.976344	28.631585	750.27	-2107.19
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	261502496	7.35	17278	-0.144	0.074	0.191	0.275	194.887297	28.065668	-495.20	-470.50
6	GUIDE	used	261505232	9.73	17243	-0.107	-0.020	0.282	0.420	194.216553	27.802521	343.30	1707.80
7	GUIDE	used	261505760	9.76	17251	0.017	-0.358	0.180	0.294	193.736841	27.992885	1912.41	2293.47

2.4 Star Slots

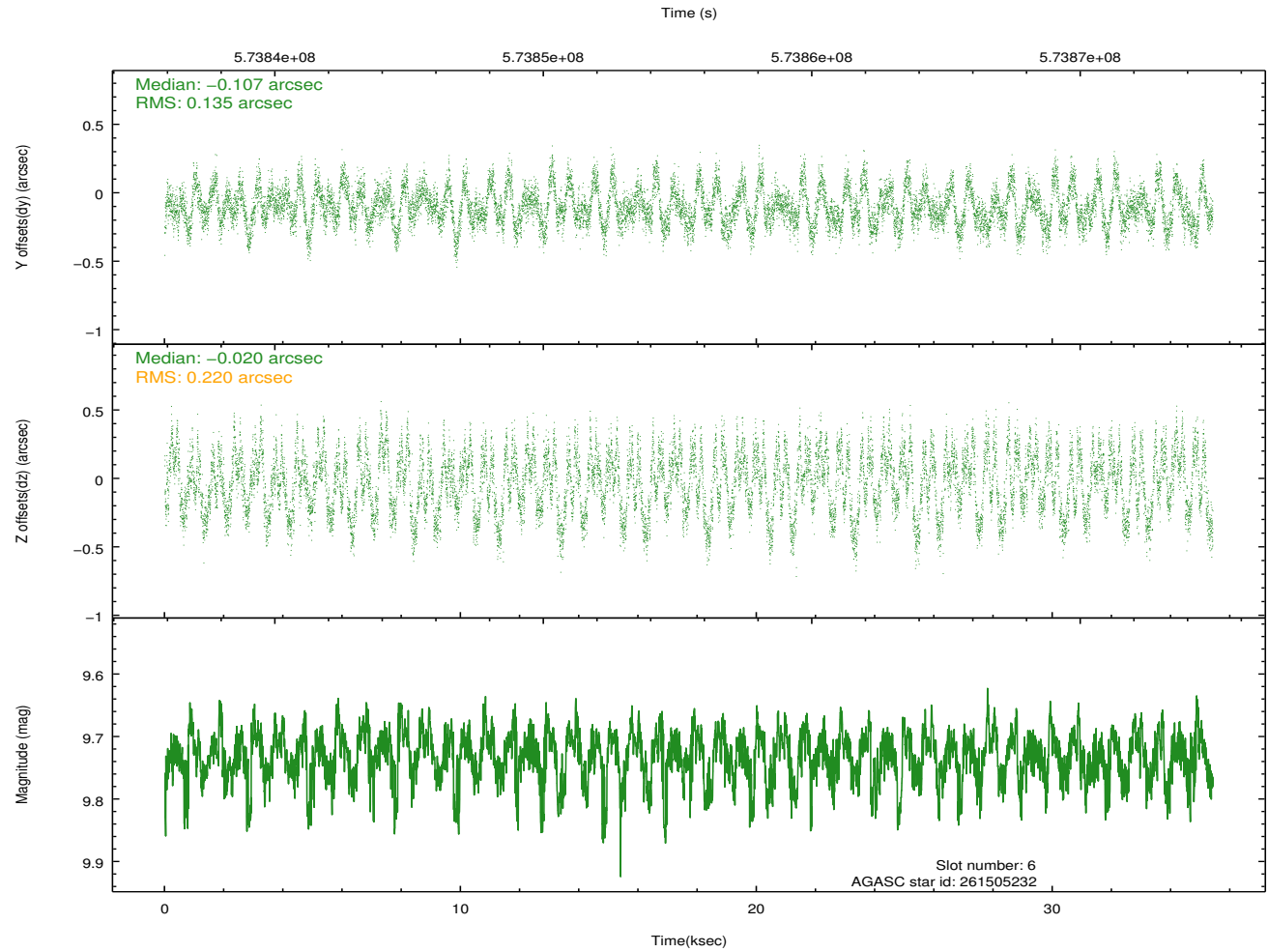
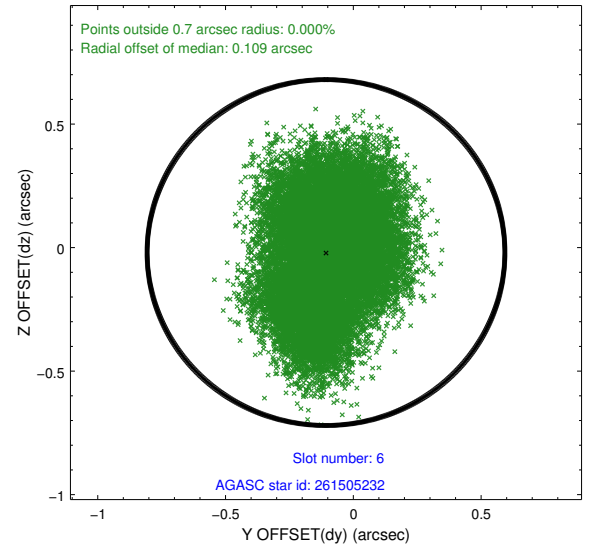
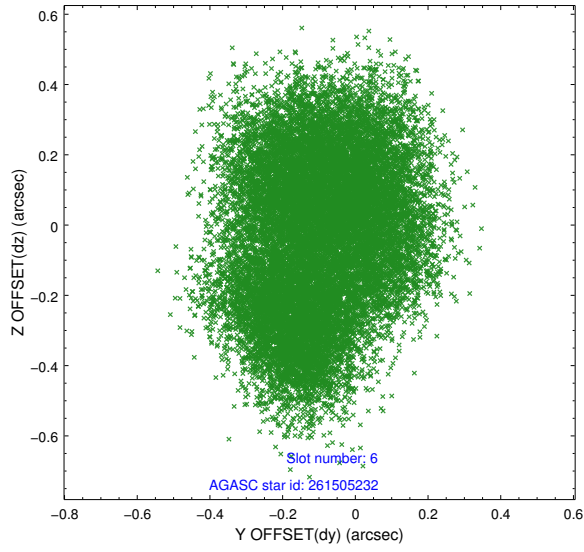
2.4.1 Slot 3



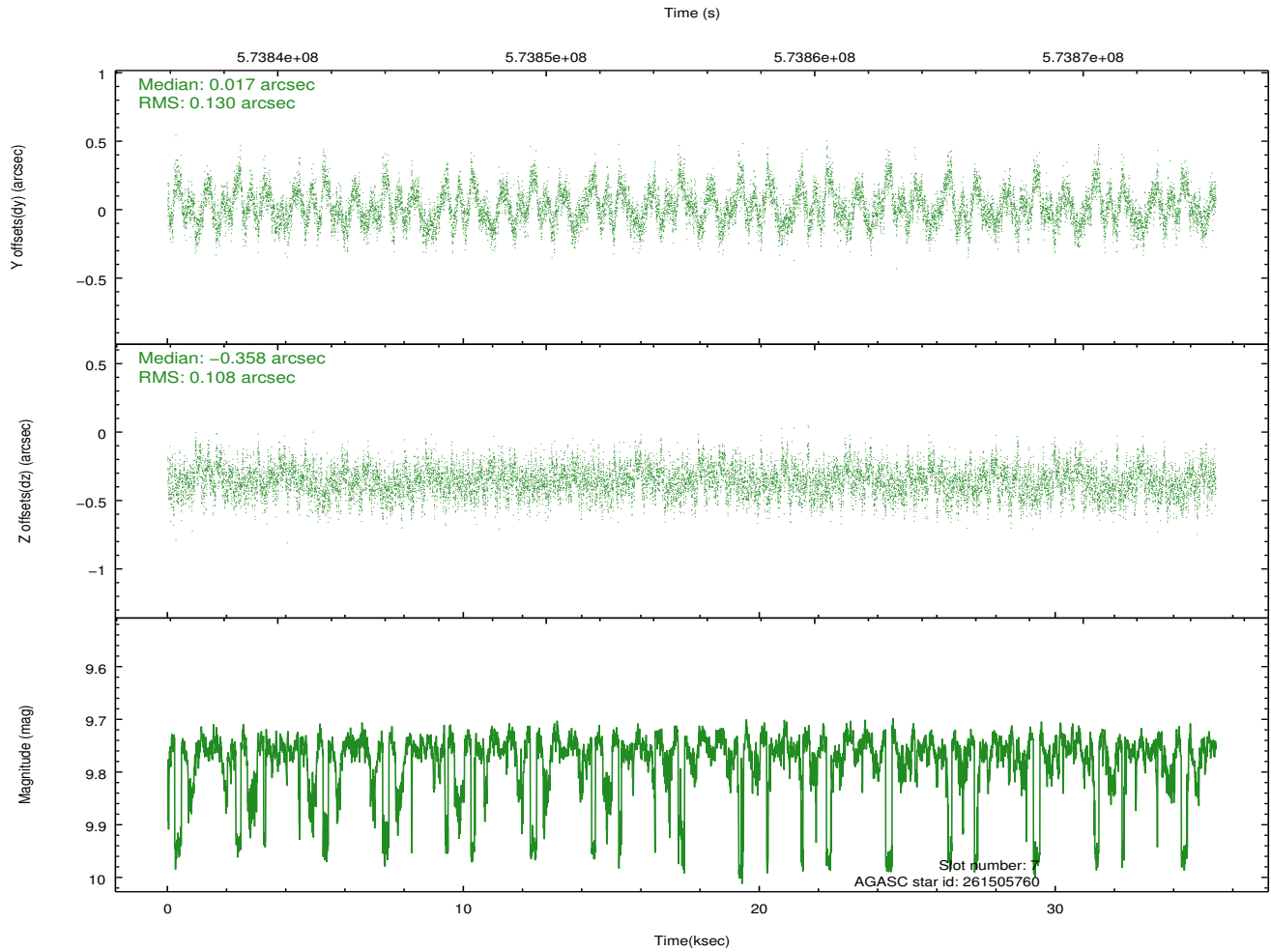
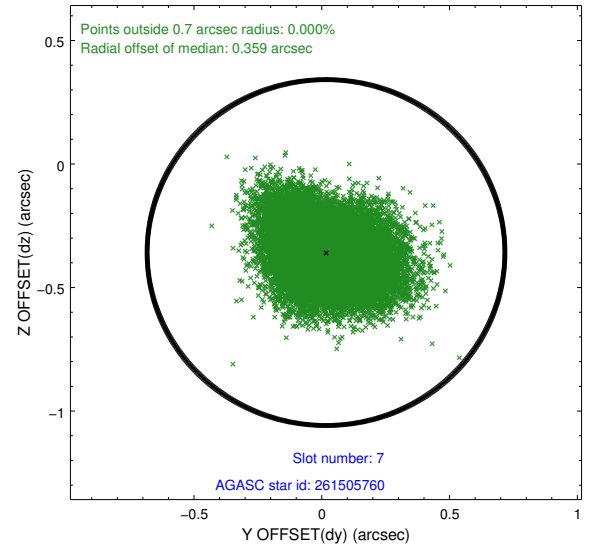
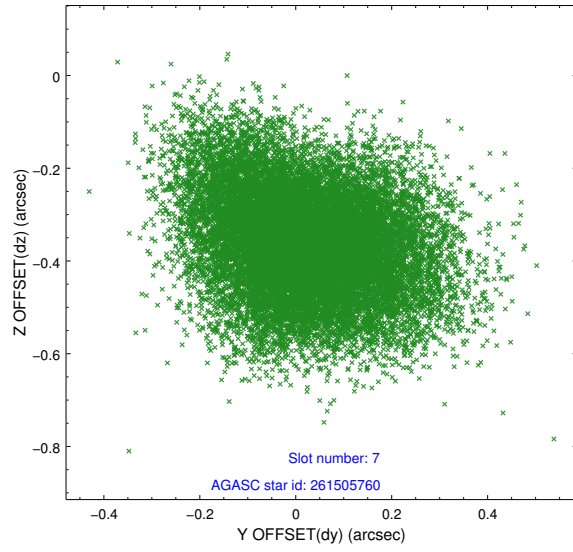
2.4.2 Slot 5



2.4.3 Slot 6

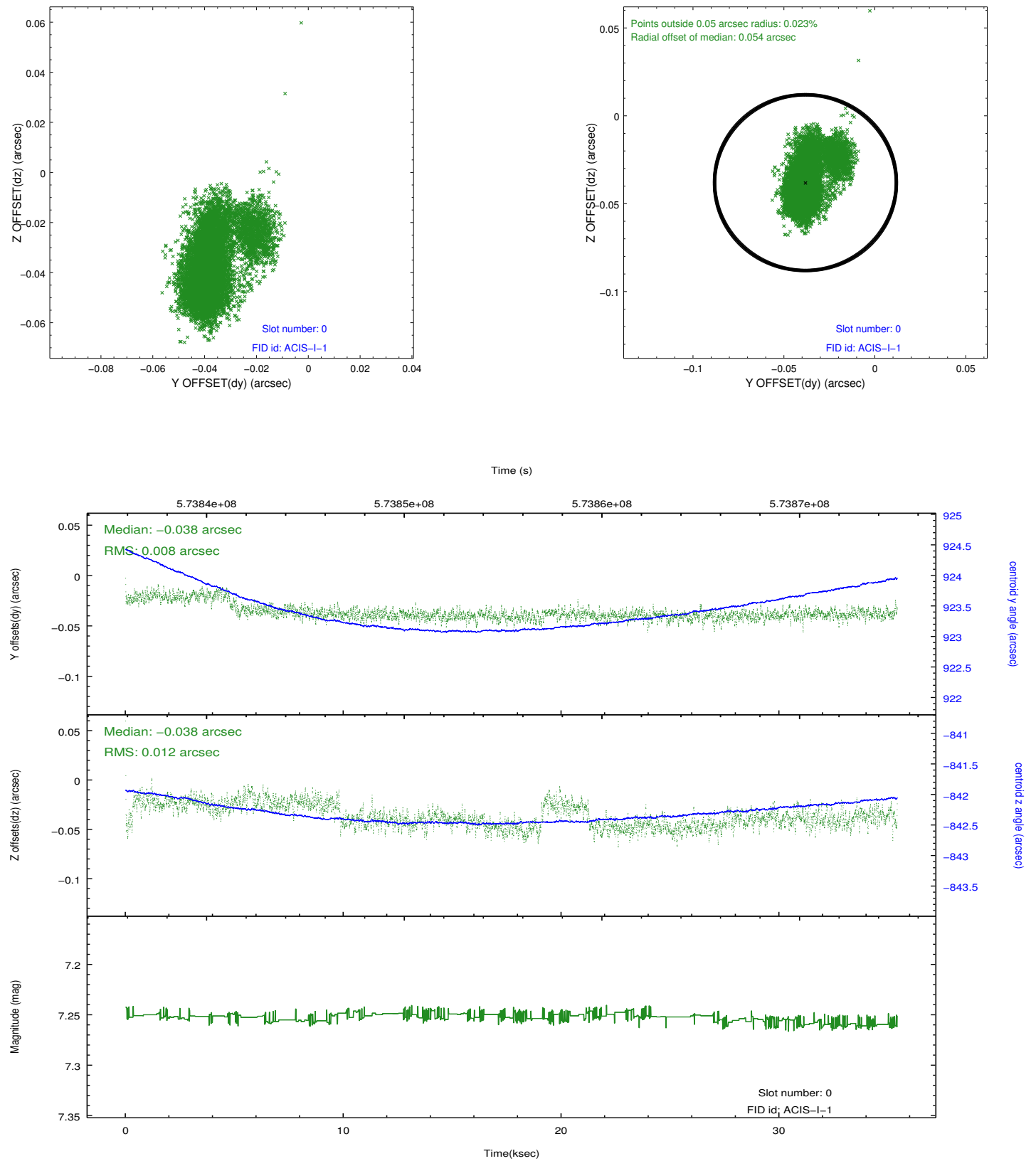


2.4.4 Slot 7

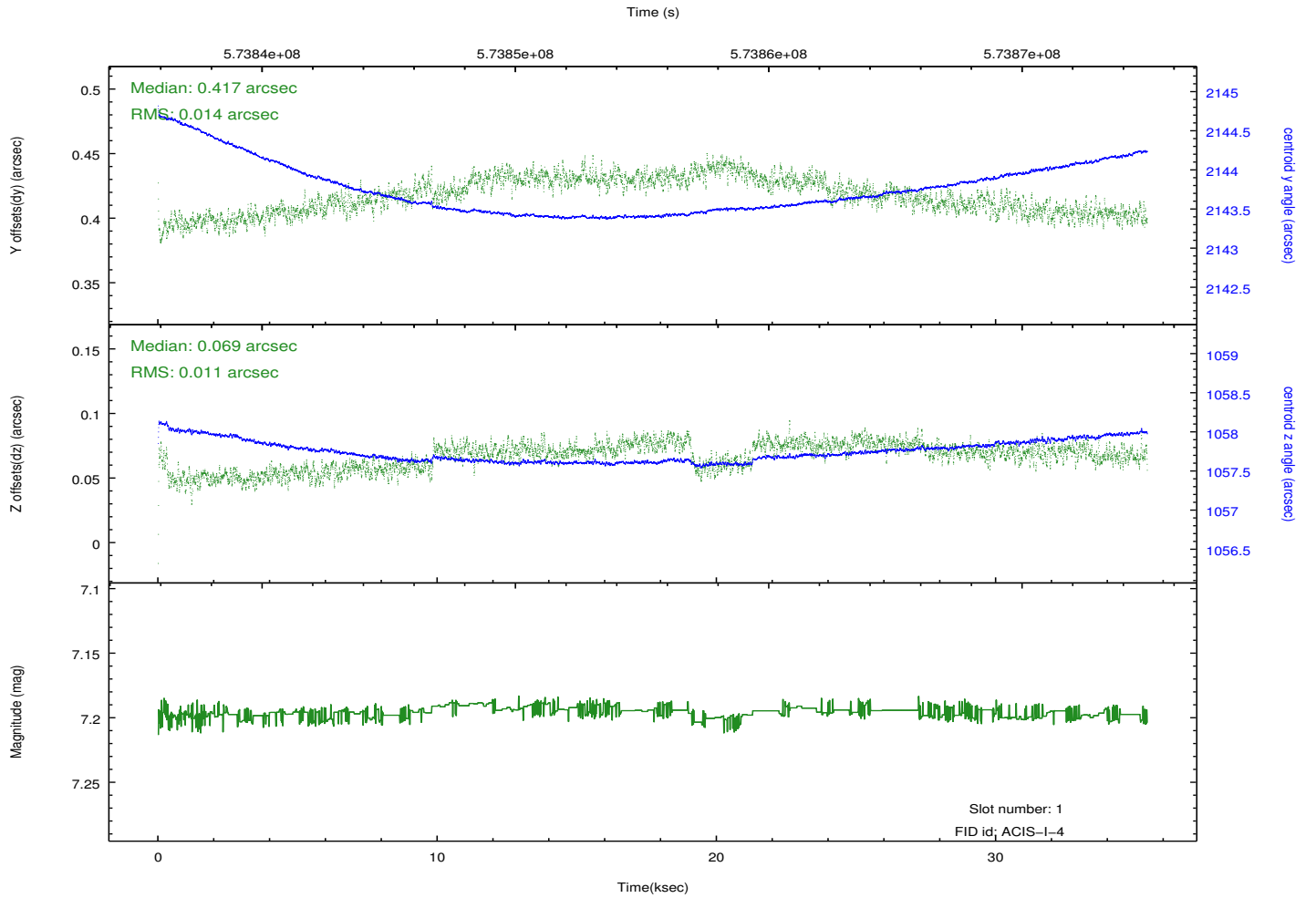
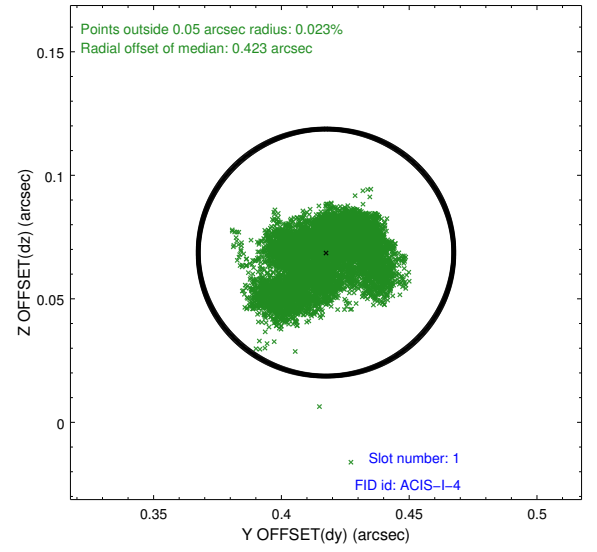
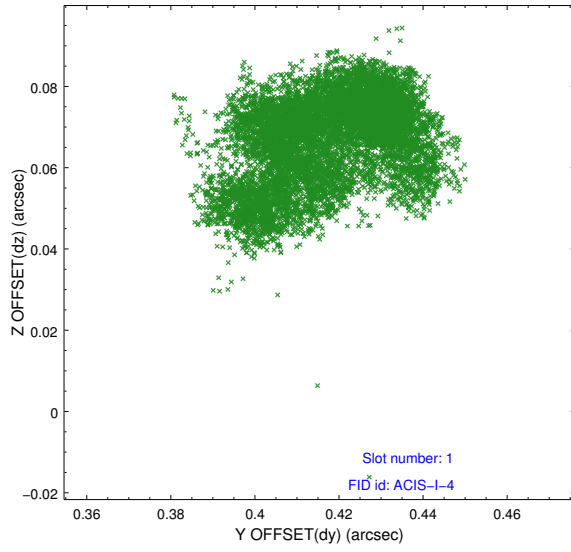


2.5 FID Slots

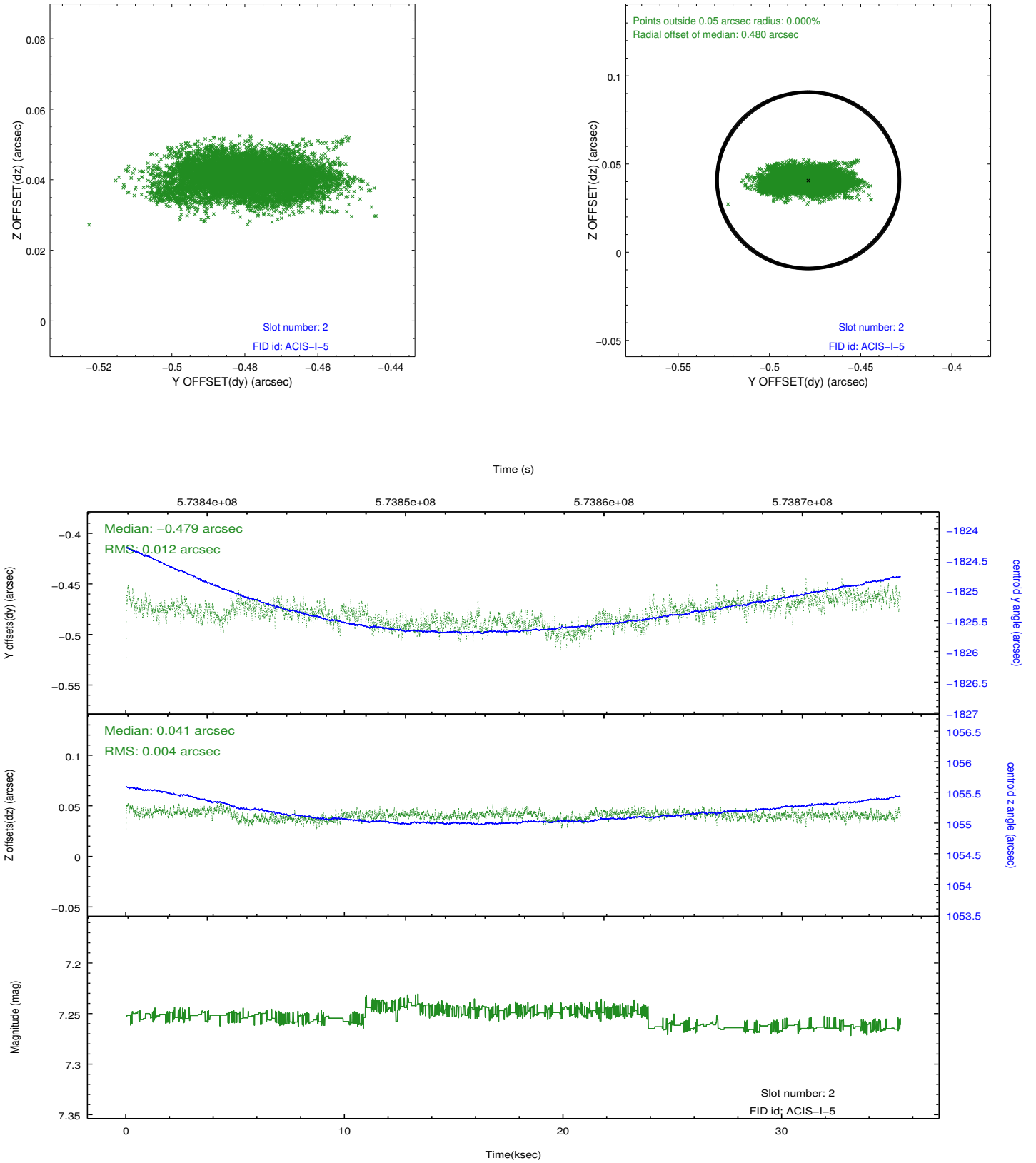
2.5.1 Slot 0



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)	2016.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.079559209943

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.