

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18794 - L2 Version 2
Chandra X-Ray Center

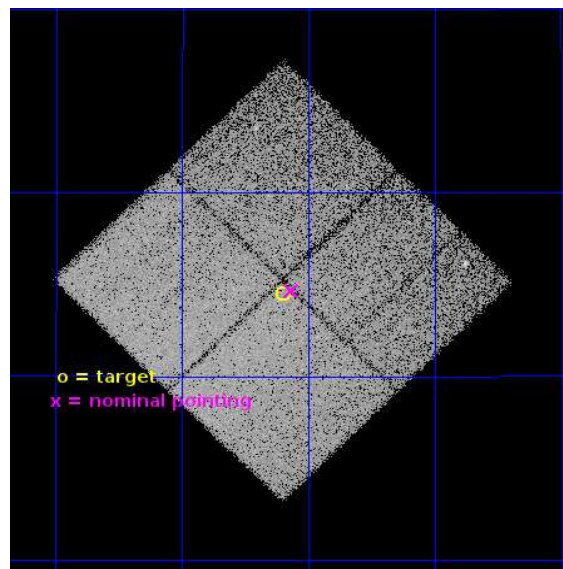
L2 Processing Date : Mar 16 2016

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1 Front

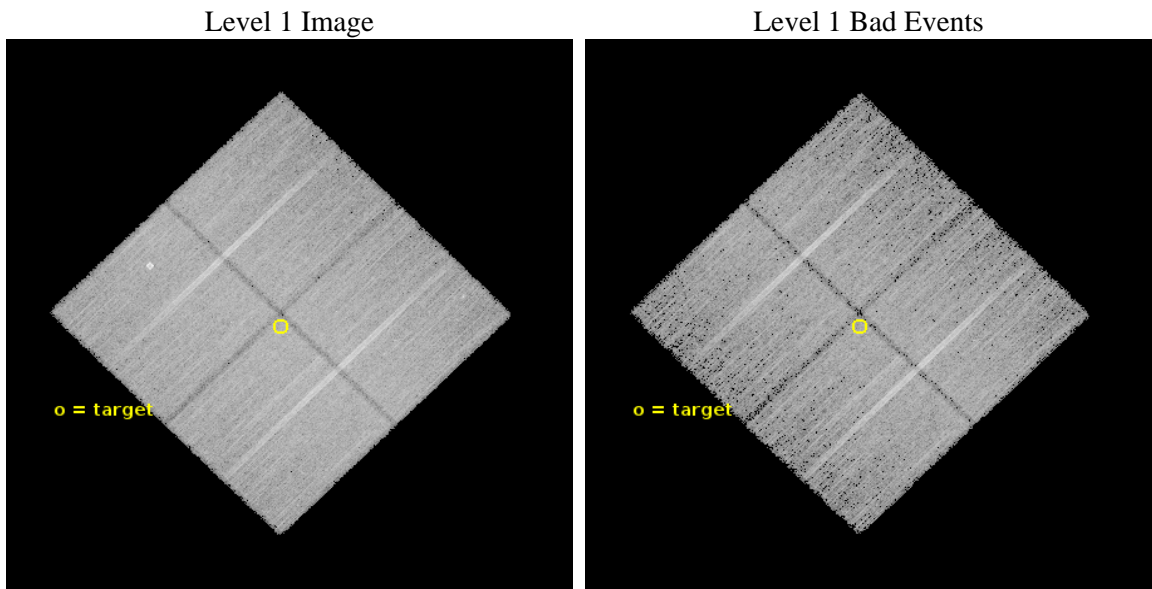
seq_num	801595	Sequence number
obs_id	18794	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.6420159941	Nominal RA [deg]
dec_nom	28.077712741955	Nominal Dec [deg]
roll_nom	135.21224855553	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29687.618196368	Sum of GTIs [s]
livetime	29299.727608926	Livetime [s]
ontime0	29684.354066133	Sum of GTIs [s]
ontime1	29684.395076156	Sum of GTIs [s]
ontime2	29687.577156425	Sum of GTIs [s]
ontime3	29687.618196368	Sum of GTIs [s]
l2events	154522	Number of level 2 events



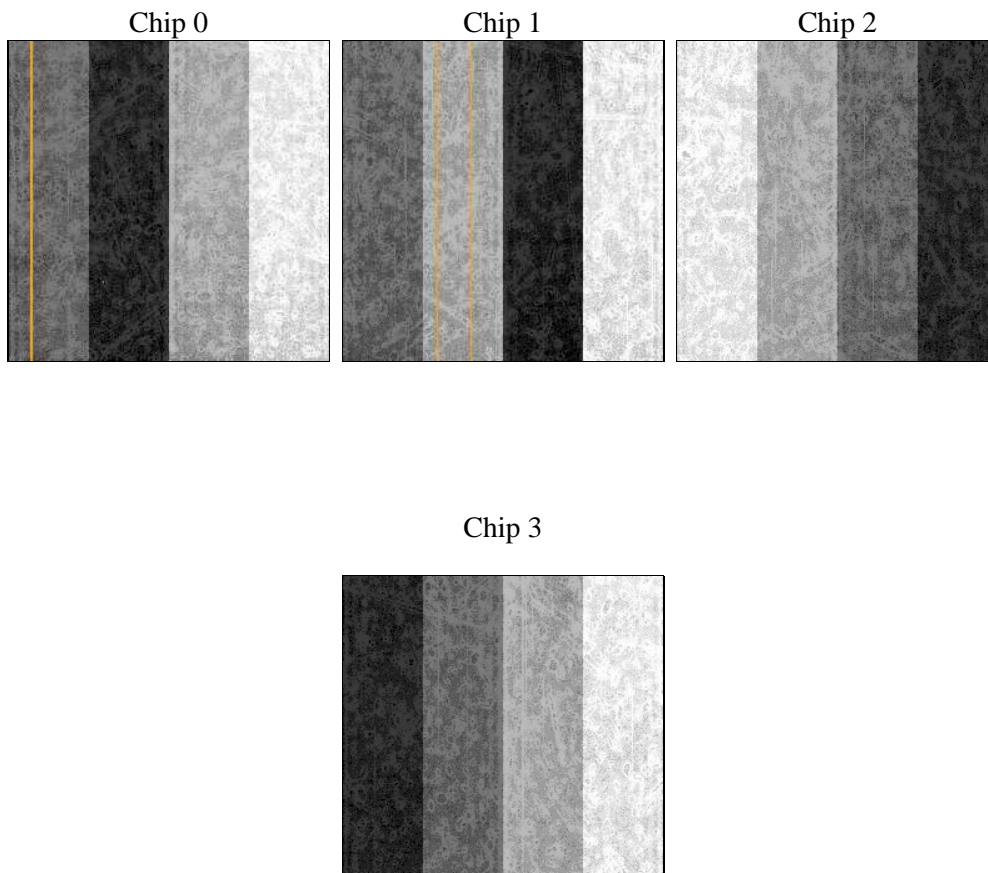
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29605.028000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	29687.618196368	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	29684.354066133	Sum of GTIs [s]
date	2016-03-16T14:11:56	Date and time of file creation	ontime1	29684.395076156	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	29687.577156425	Sum of GTIs [s]
			ontime3	29687.618196368	Sum of GTIs [s]
			l1events	785889	Number of level 1 events

2.1.4 Events

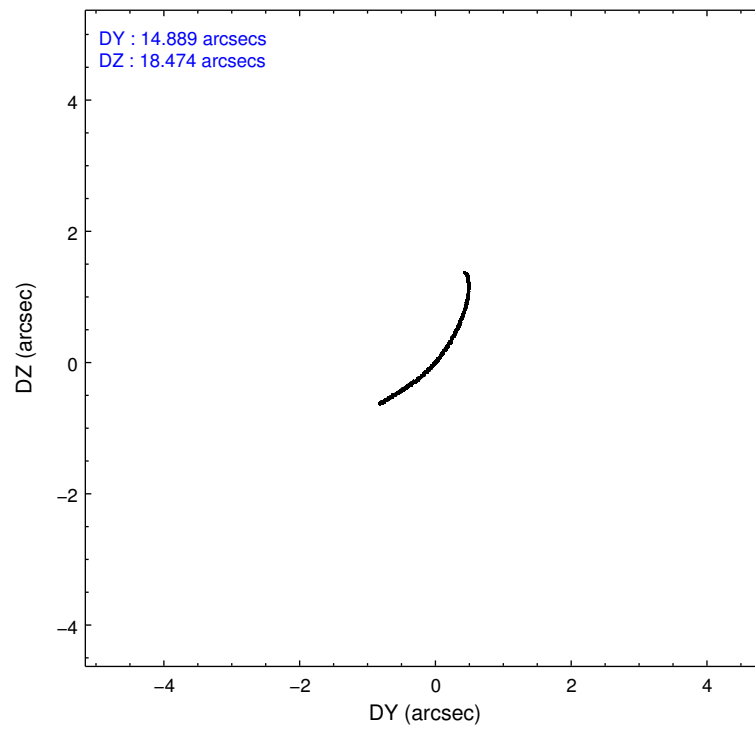
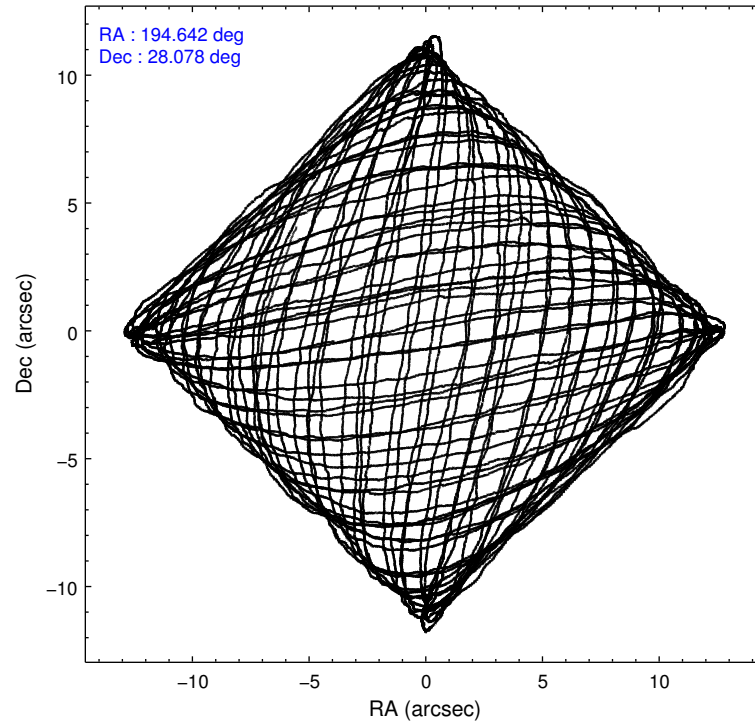
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	175617	204555	196054	209663
rejected events	143389	147248	162258	158901
rejected %	81%	71%	82%	75%

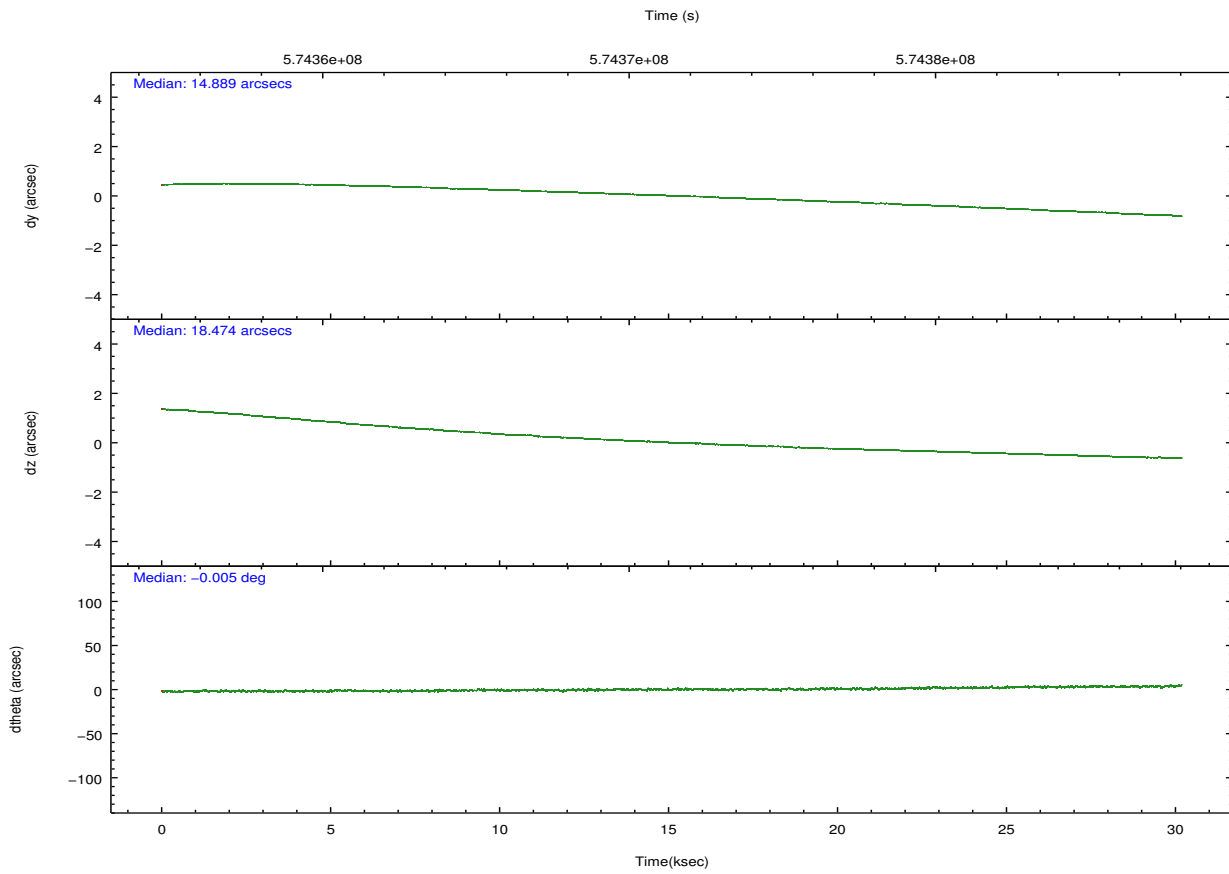
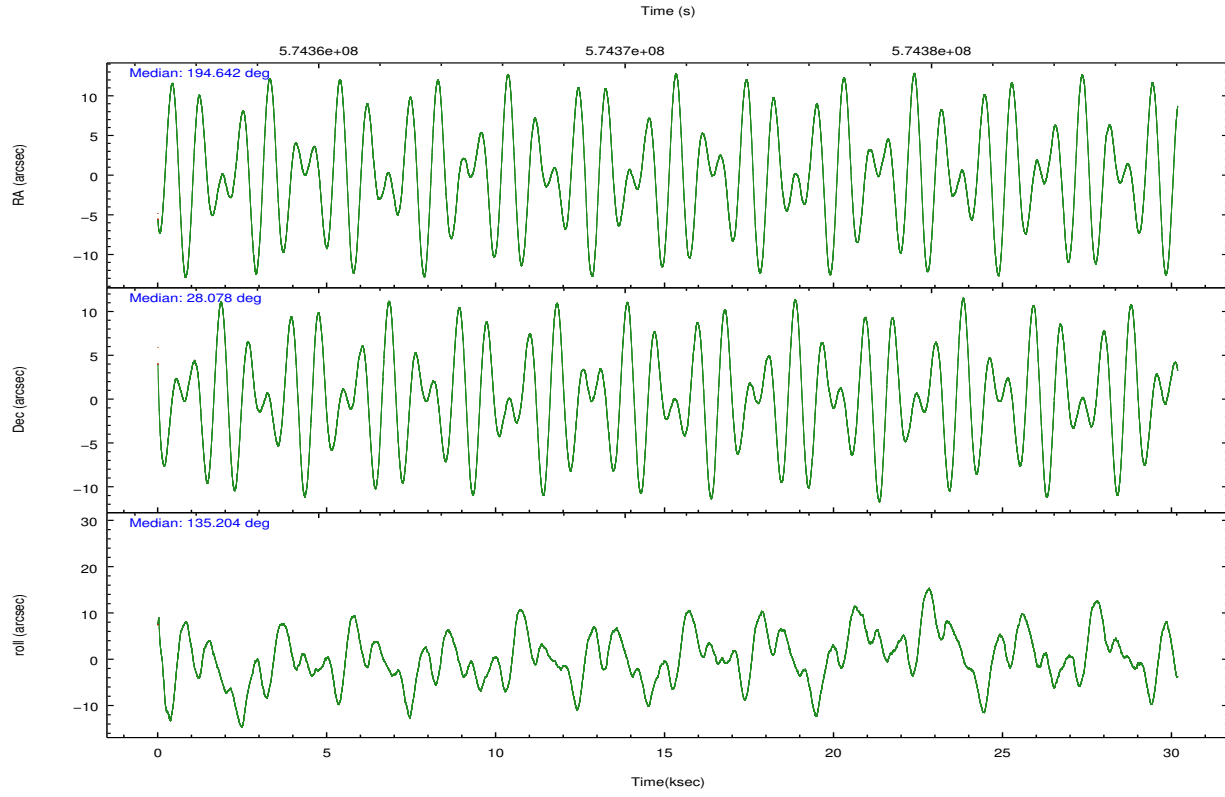
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	16475	34918	18036	31530
	9%	17%	9%	15%
grade 1 events	142	203	158	204
	0%	0%	0%	0%
grade 2 events	6289	9603	6374	7719
	3%	4%	3%	3%
grade 3 events	2469	3362	2536	3172
	1%	1%	1%	1%
grade 4 events	2427	3260	2532	3231
	1%	1%	1%	1%
grade 5 events	7801	8411	7616	9016
	4%	4%	3%	4%
grade 6 events	4574	6171	4321	5115
	2%	3%	2%	2%
grade 7 events	135440	138627	154481	149676
	77%	67%	78%	71%

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	194.672297	194.642015994101	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.070769	28.07771274195486	Alternating exposures requested	N	N
[deg] Pointing Roll	134.989303	135.2122485555282	[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)	574356867.184000	574355796.36217			
Observation start date	2016-03-14T15:33:19	2016-03-14T15:16:36			
[s] Observation end time (MET)	574386472.184000	574386708.82643			
Observation end date	2016-03-14T23:46:44	2016-03-14T23:51:48			
Read mode	TIMED	TIMED			

2.3 Aspect





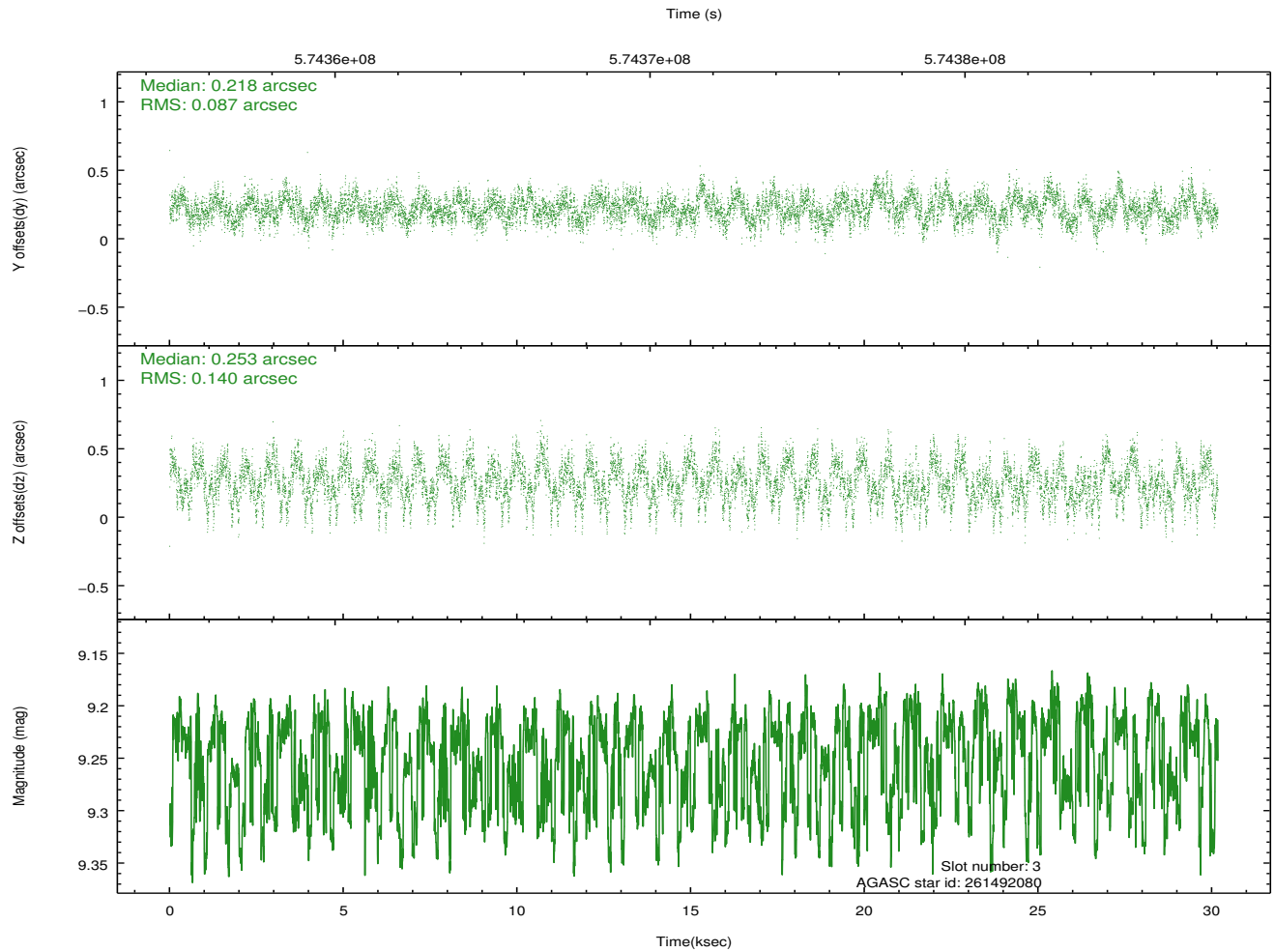
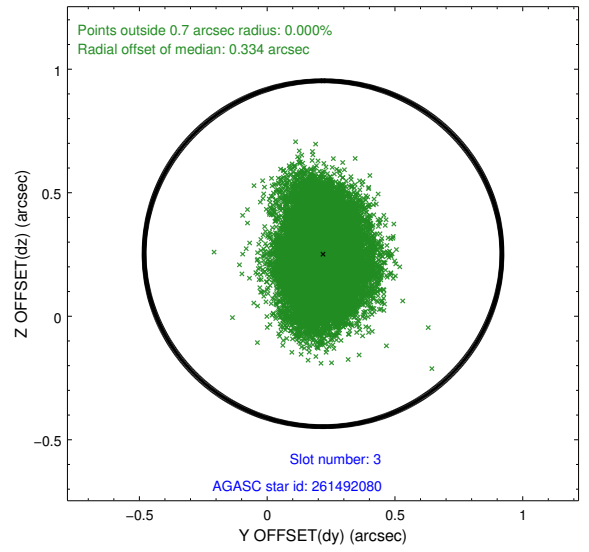
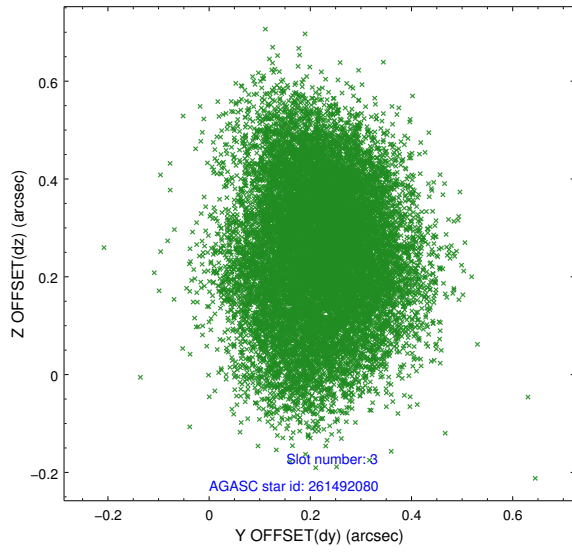
Slot Statistics

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	7361	-0.034	-0.030	0.011	0.028	0.000000	0.000000	924.61	-842.31
1	FID		ACIS-I-4	7.20	7359	0.374	0.062	0.012	0.026	0.000000	0.000000	2145.02	1057.61
2	FID		ACIS-I-5	7.26	7361	-0.437	0.040	0.010	0.019	0.000000	0.000000	-1823.78	1055.35
3	GUIDE	used	261492080	9.25	14703	0.218	0.253	0.177	0.283	194.976344	28.631585	750.31	-2107.26
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	7.34	14721	-0.155	0.049	0.180	0.254	194.887297	28.065668	-495.18	-470.57
6	GUIDE	used	261505232	9.75	14696	-0.143	0.050	0.291	0.456	194.216553	27.802521	343.27	1707.84
7	GUIDE	used	261505760	9.77	14704	0.069	-0.329	0.164	0.272	193.736841	27.992885	1912.45	2293.52

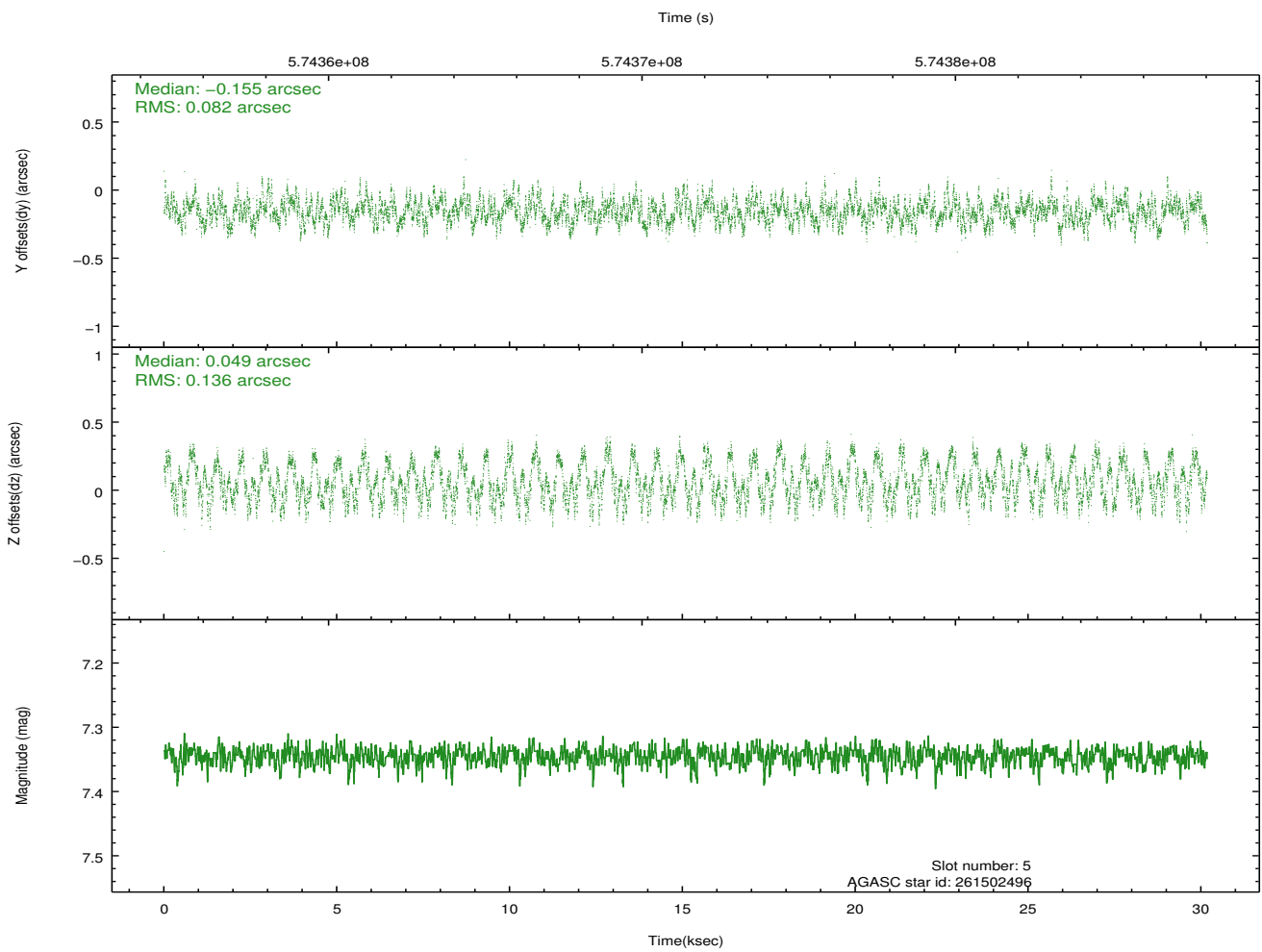
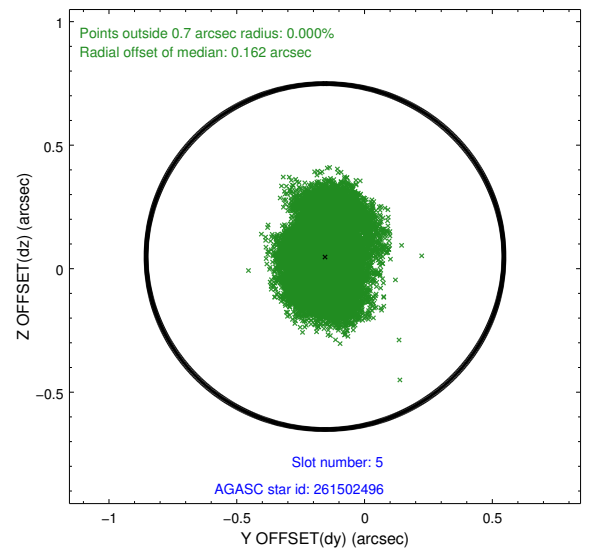
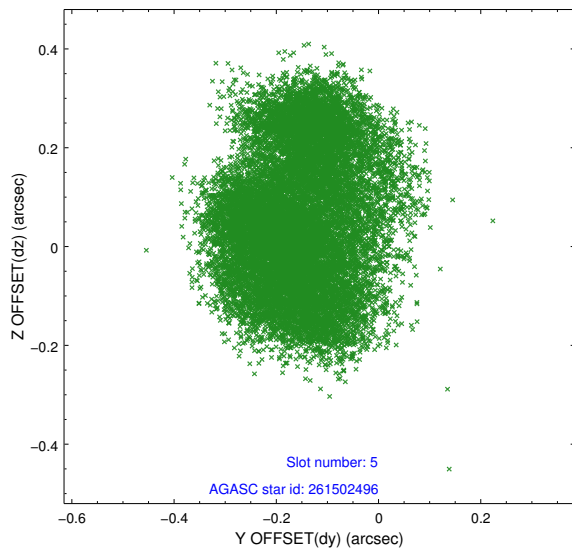
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2.4 Star Slots

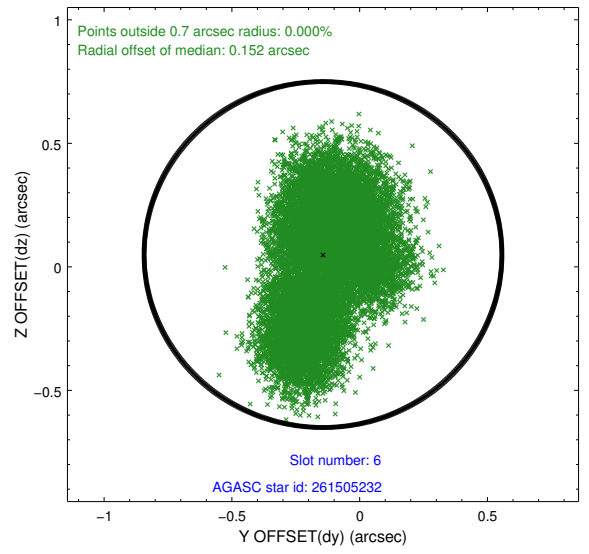
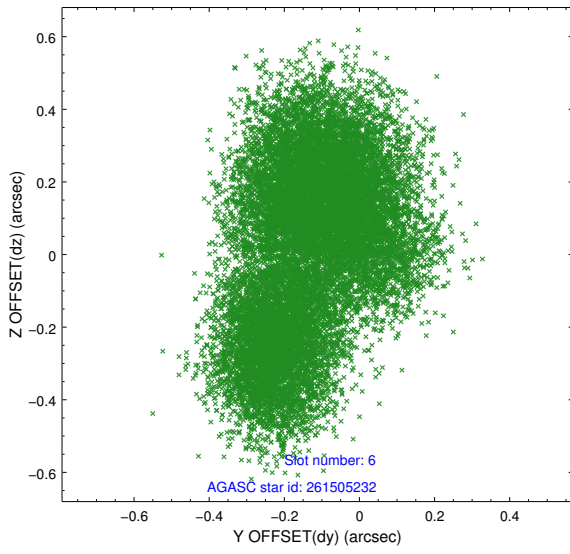
2.4.1 Slot 3



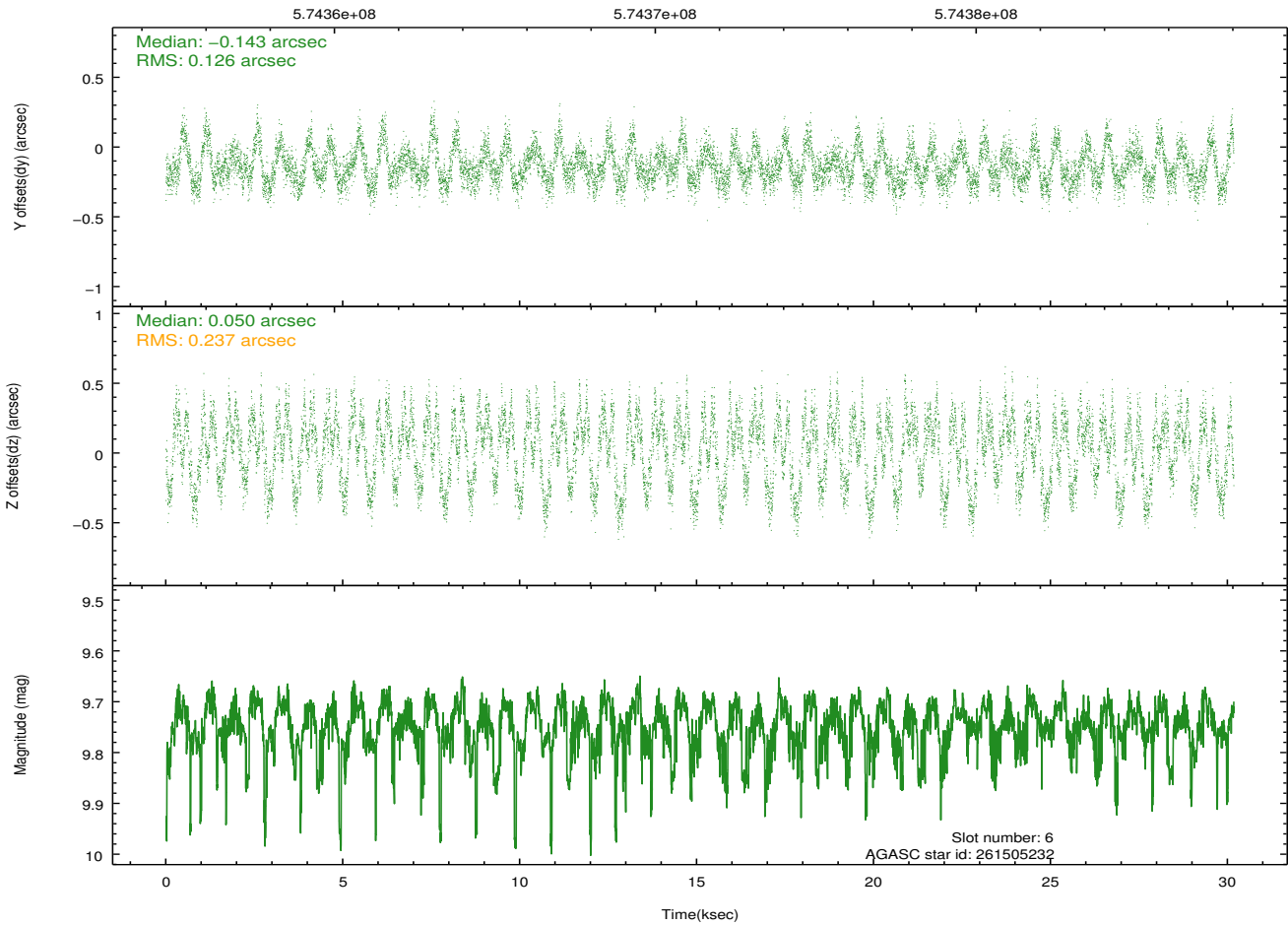
2.4.2 Slot 5



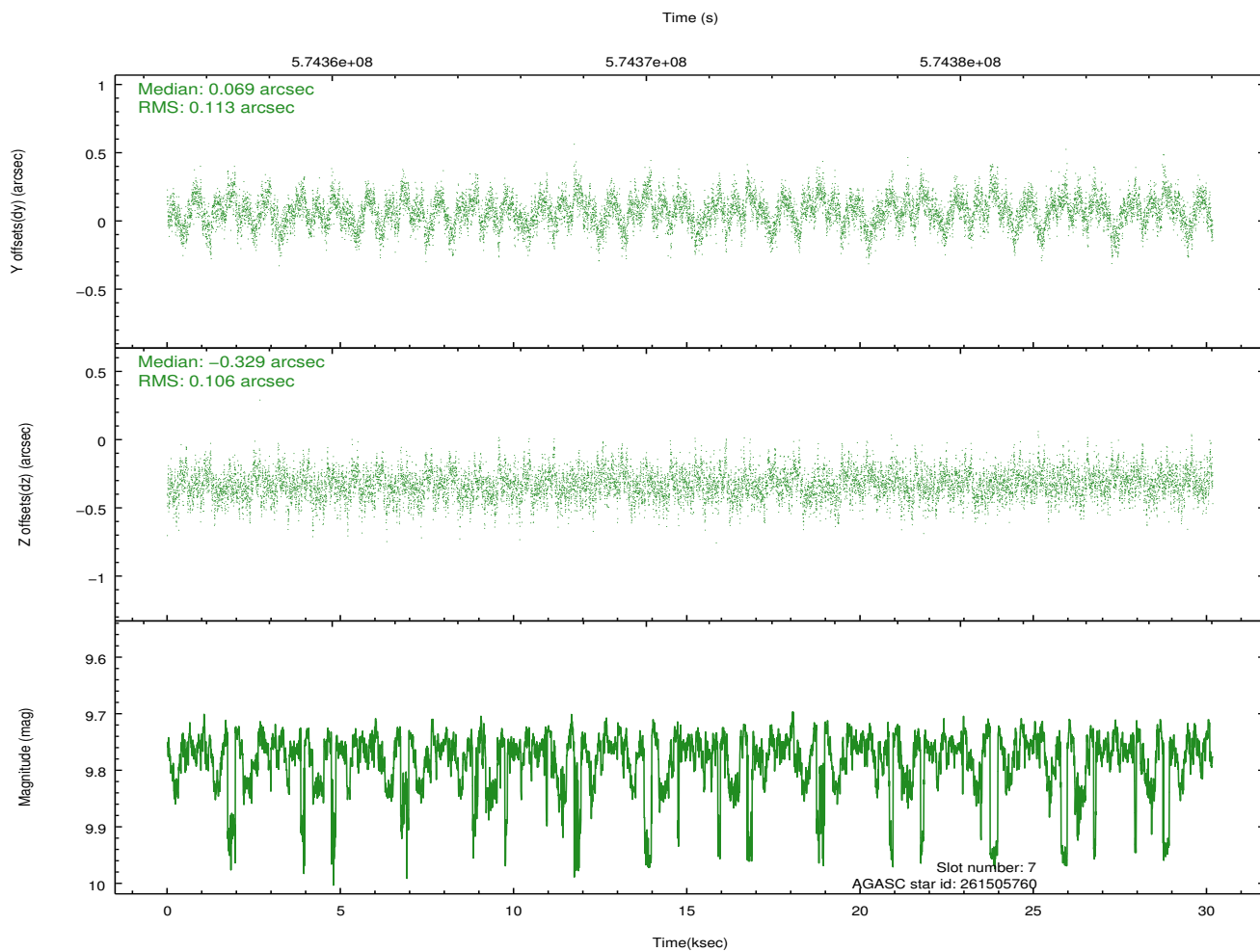
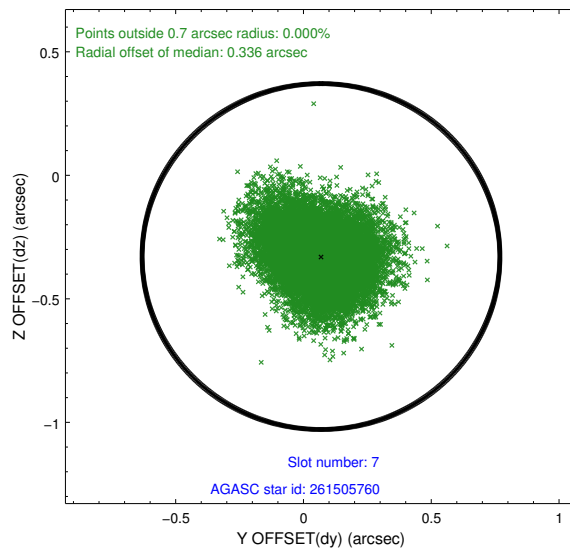
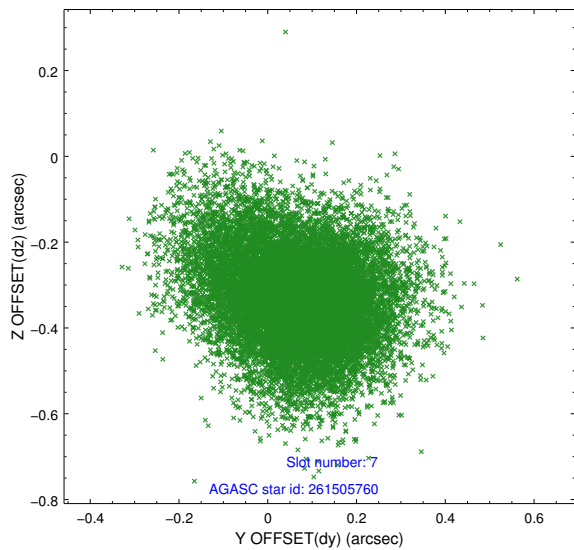
2.4.3 Slot 6



Time (s)

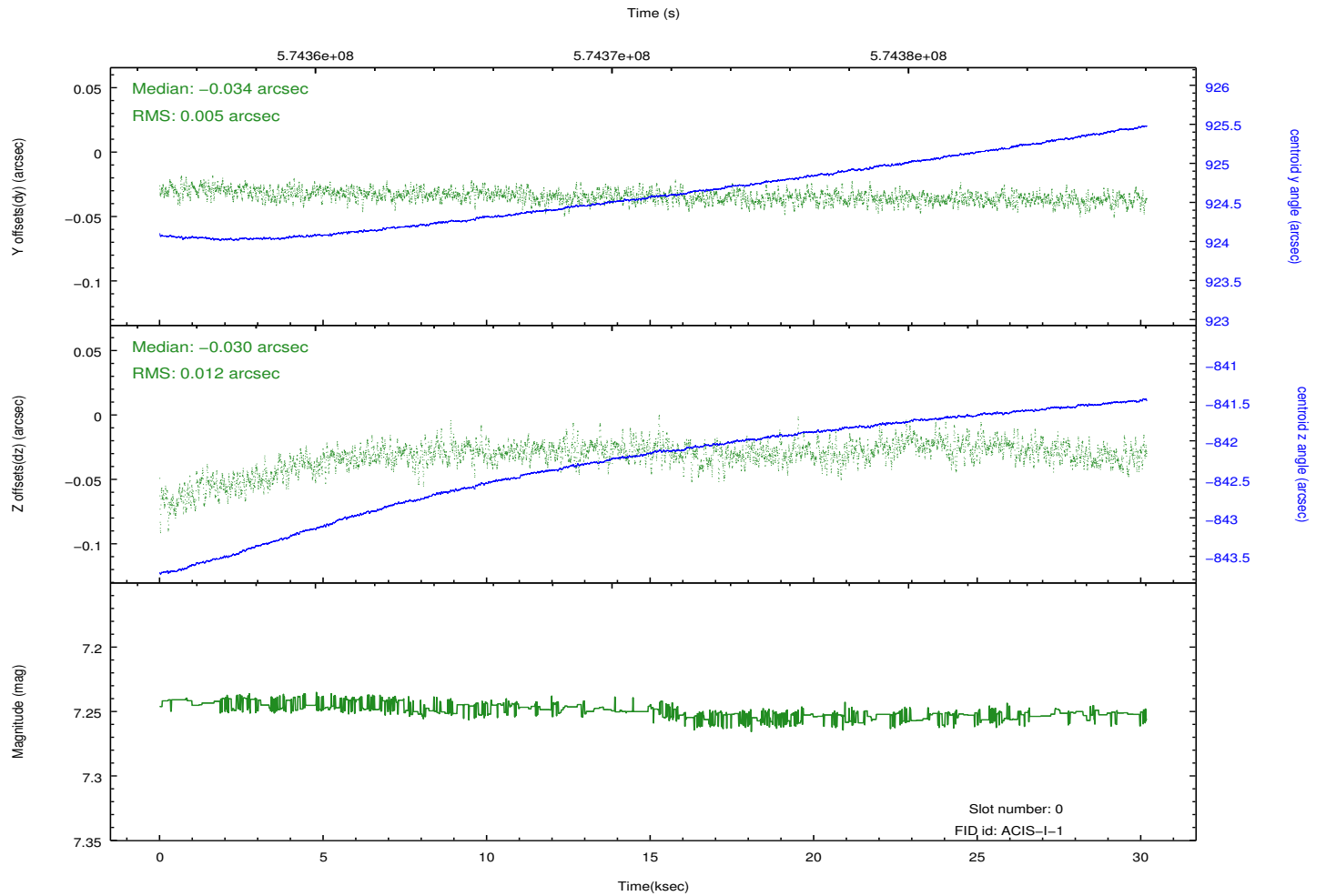
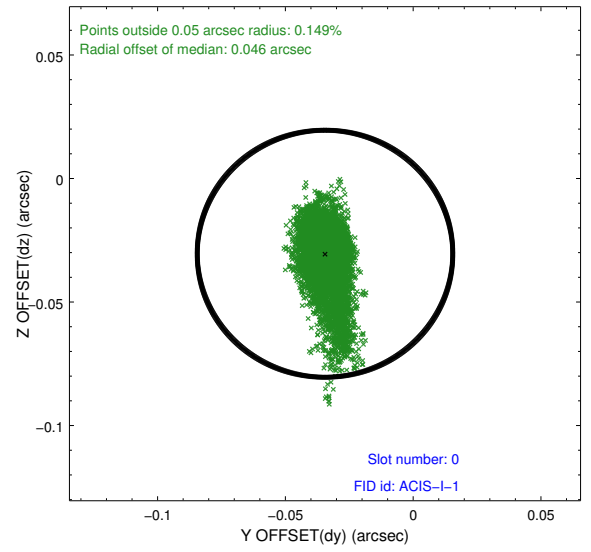
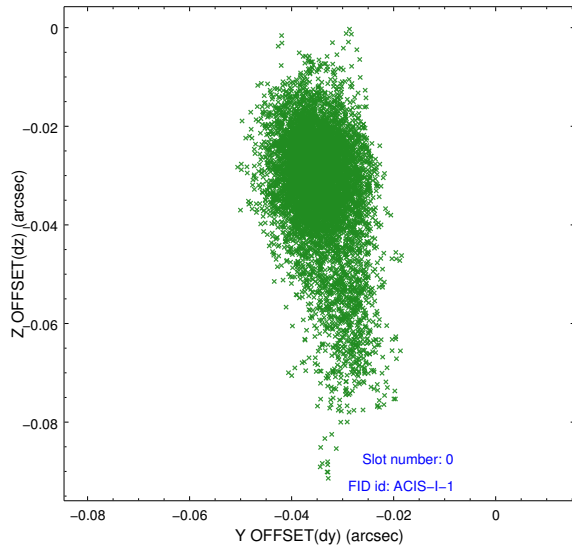


2.4.4 Slot 7

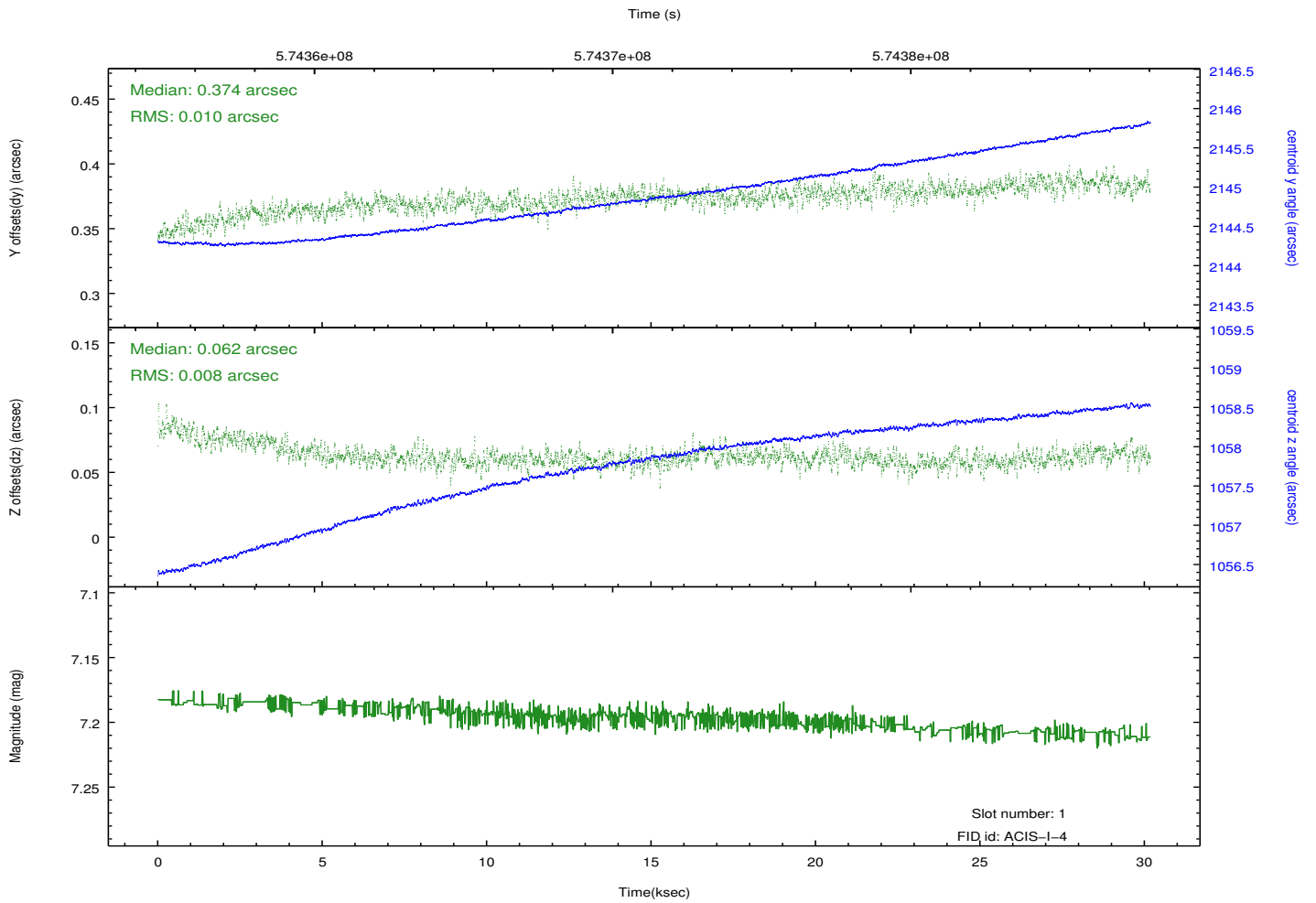
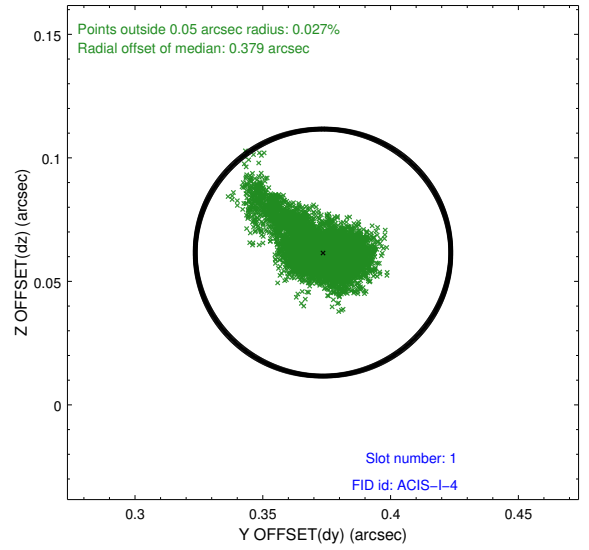
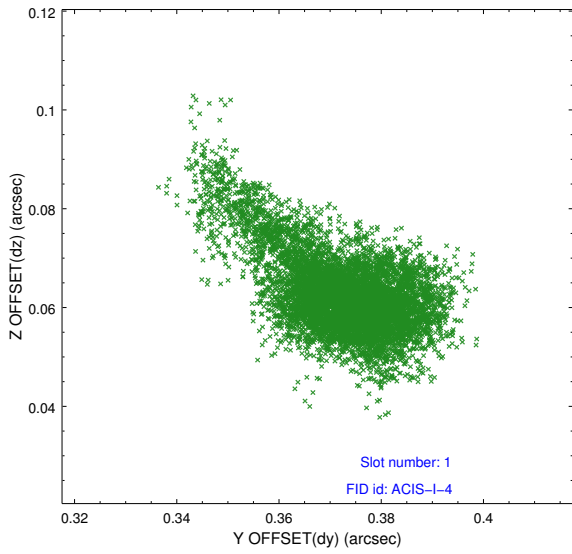


2.5 FID Slots

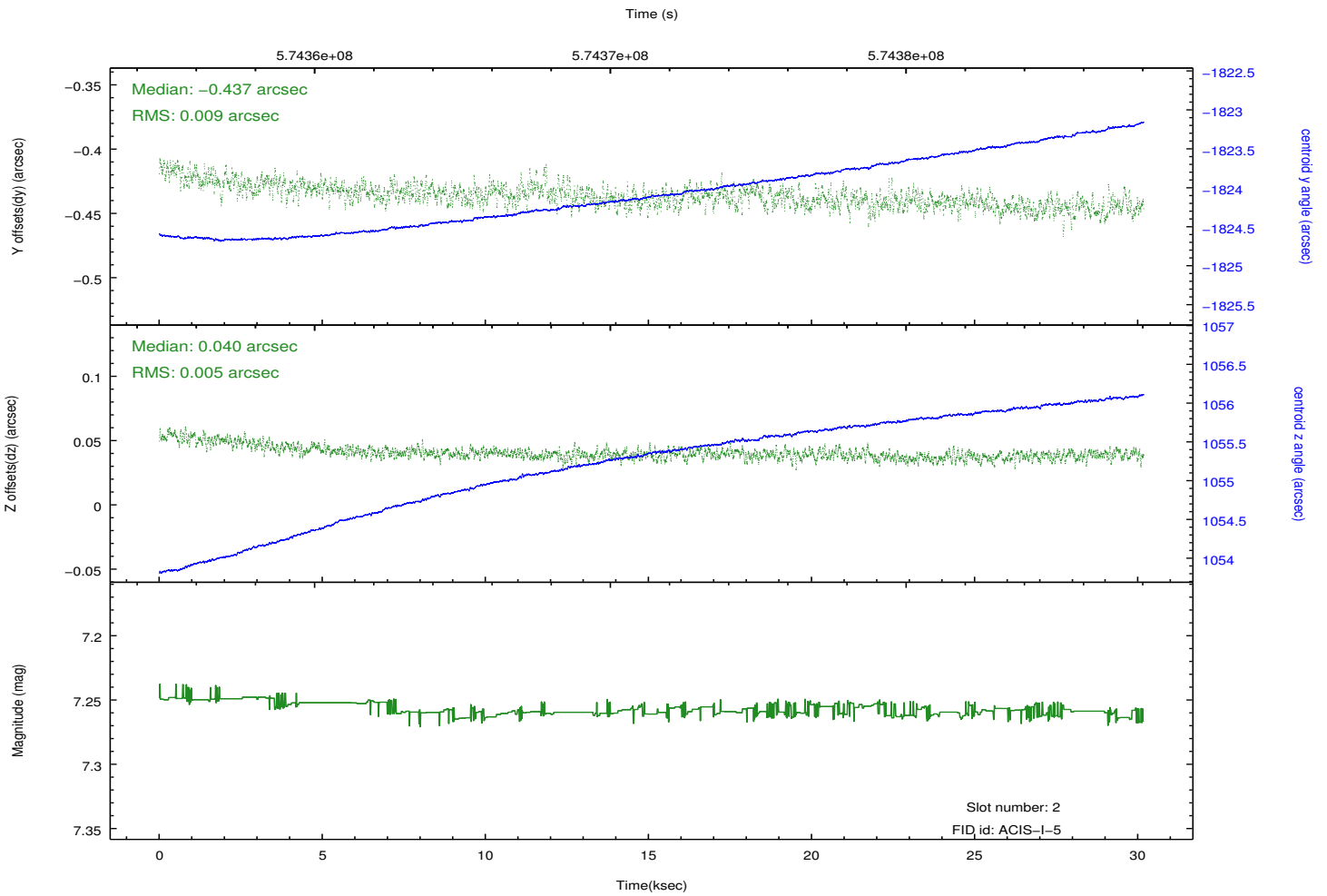
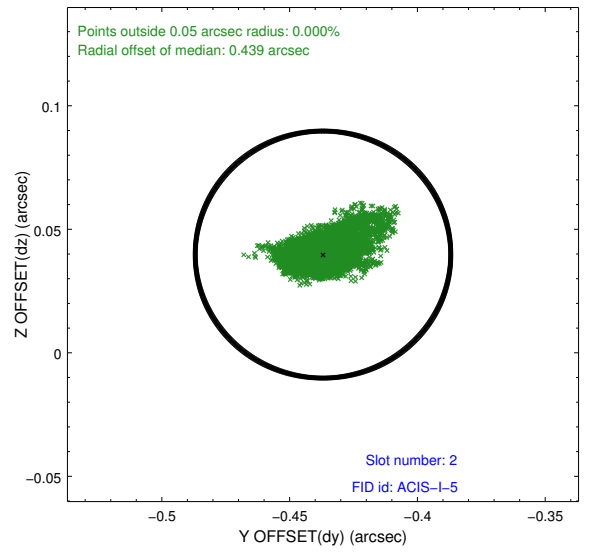
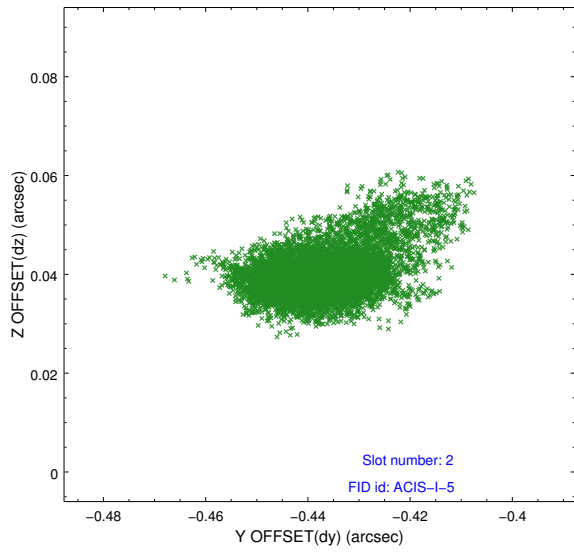
2.5.1 Slot 0



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)	2016.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.687618196368

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.