

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7720 - L2 Version 2
Chandra X-Ray Center

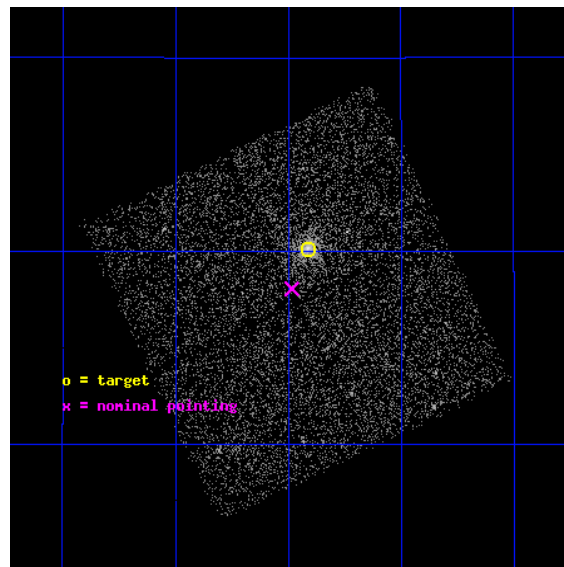
L2 Processing Date : May 3 2012

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1 Front

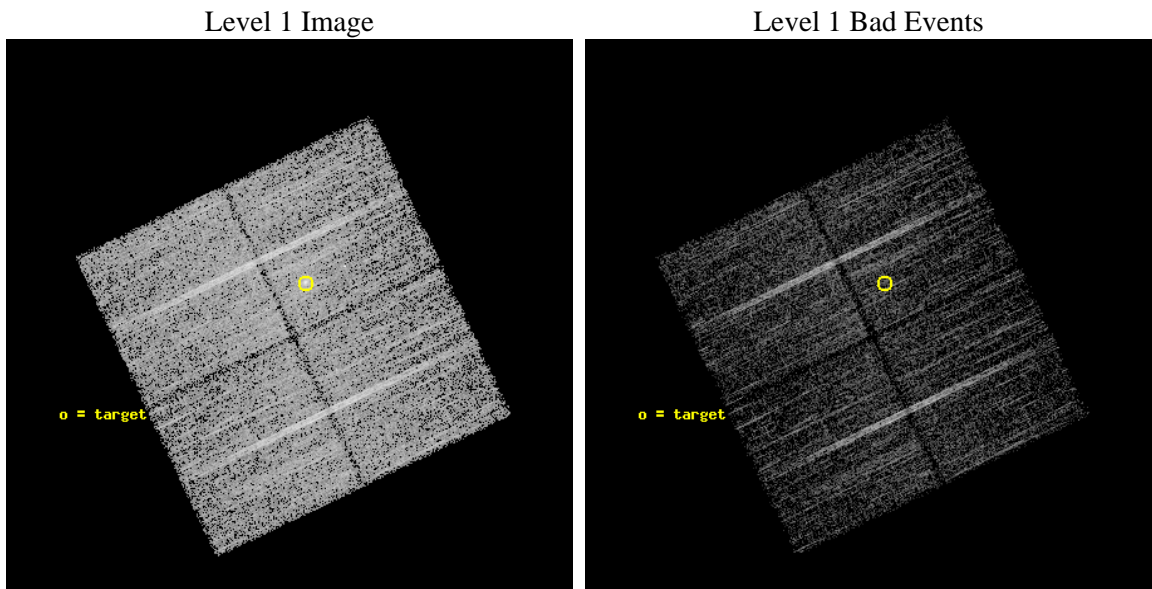
seq_num	701388	Sequence number
obs_id	7720	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	MACS1621.6+3810	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.353333	Observer's specified target RA [deg]
dec_targ	38.168889	Observer's specified target Dec [deg]
ra_nom	245.37125232712	Nominal RA [deg]
dec_nom	38.134321817771	Nominal Dec [deg]
roll_nom	334.51149435112	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7170.3000551462	Sum of GTIs [s]
livetime	7076.6148062276	Livetime [s]
ontime0	7170.3000551462	Sum of GTIs [s]
ontime1	7170.3000551462	Sum of GTIs [s]
ontime2	7170.3000551462	Sum of GTIs [s]
ontime3	7170.3000551462	Sum of GTIs [s]
l2events	14913	Number of level 2 events



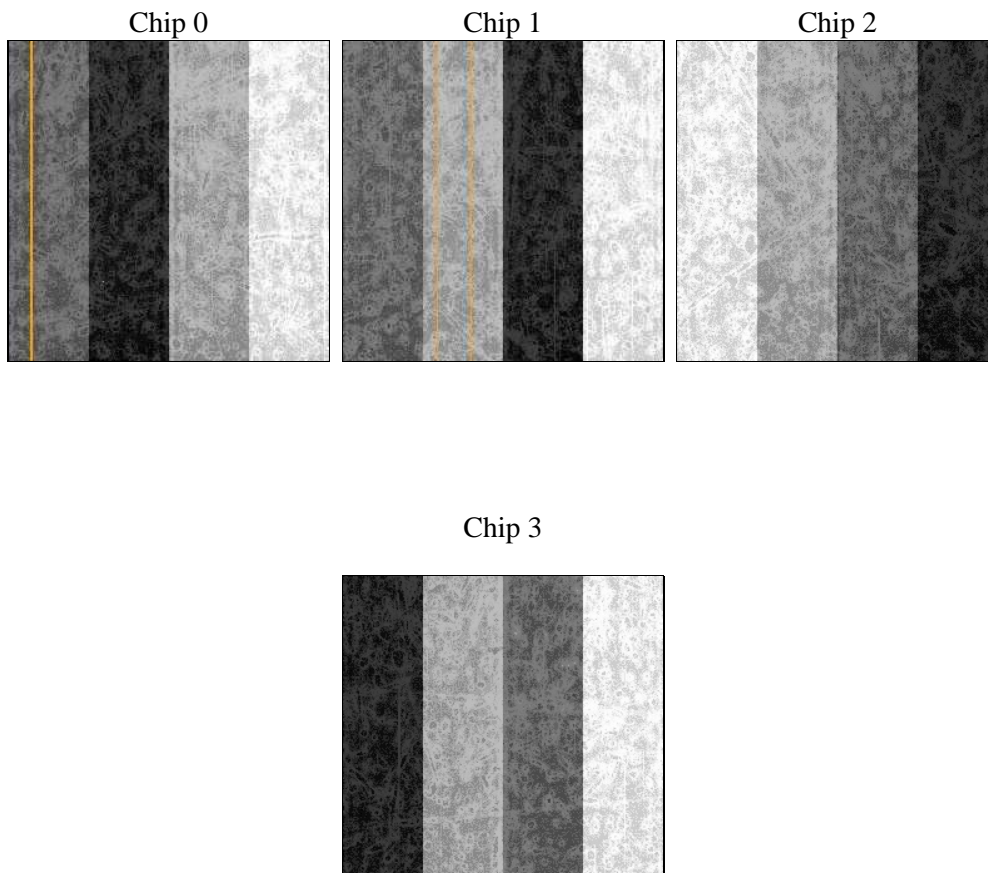
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7170.3000551462	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	7170.3000551462	Sum of GTIs [s]
date	2012-05-04T01:39:04	Date and time of file creation	ontime1	7170.3000551462	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7170.3000551462	Sum of GTIs [s]
			ontime3	7170.3000551462	Sum of GTIs [s]
			l1events	206761	Number of level 1 events

2.1.4 Events

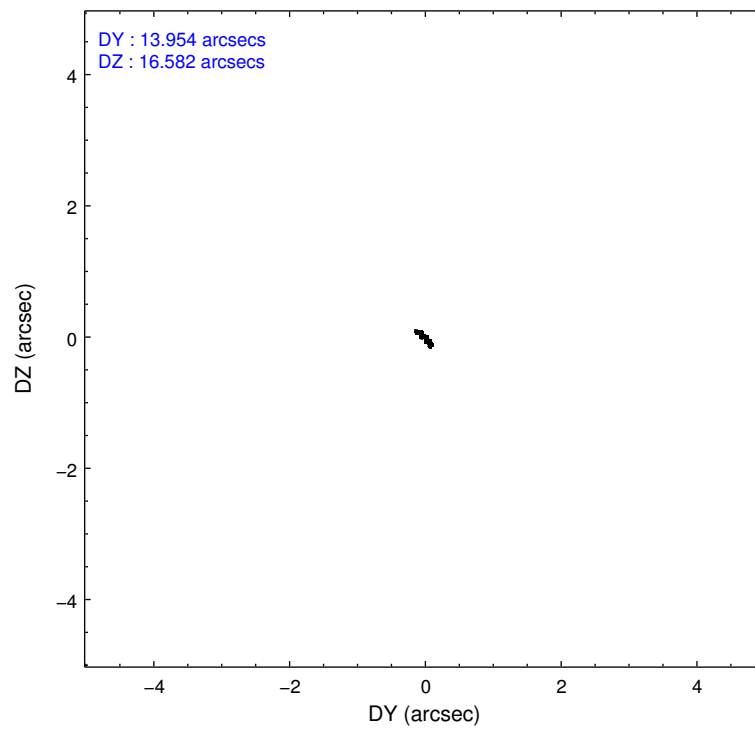
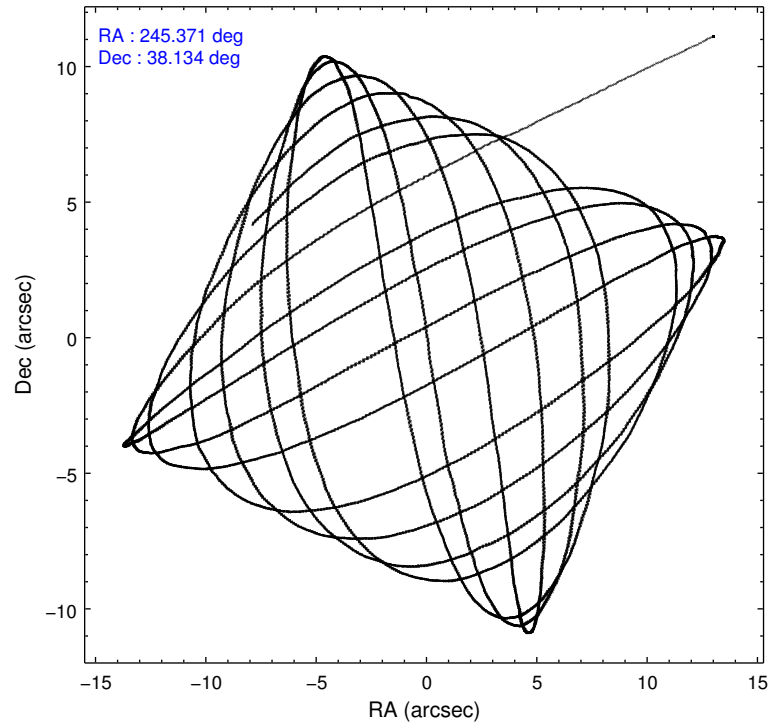
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	49593	47674	56071	53423
rejected events	45174	43072	51868	47946
rejected %	91%	90%	92%	89%

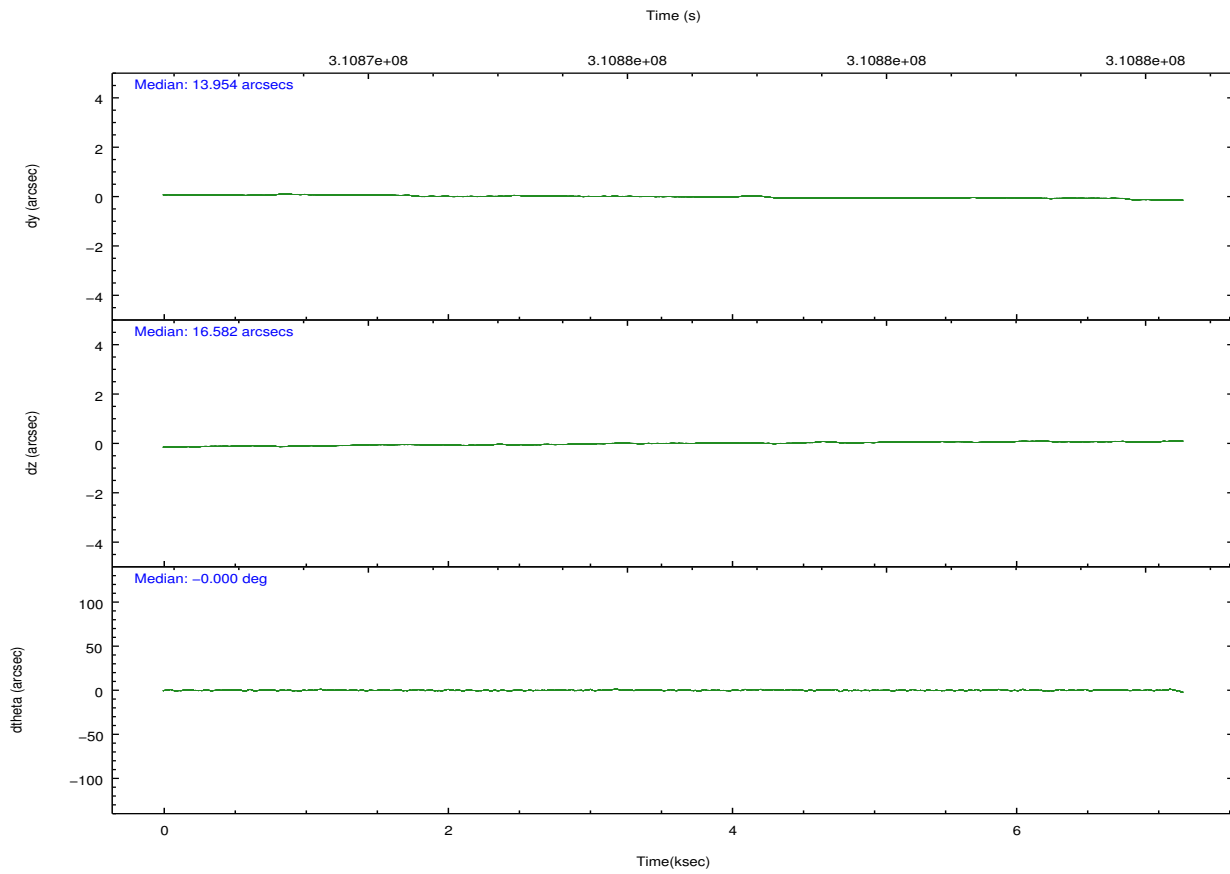
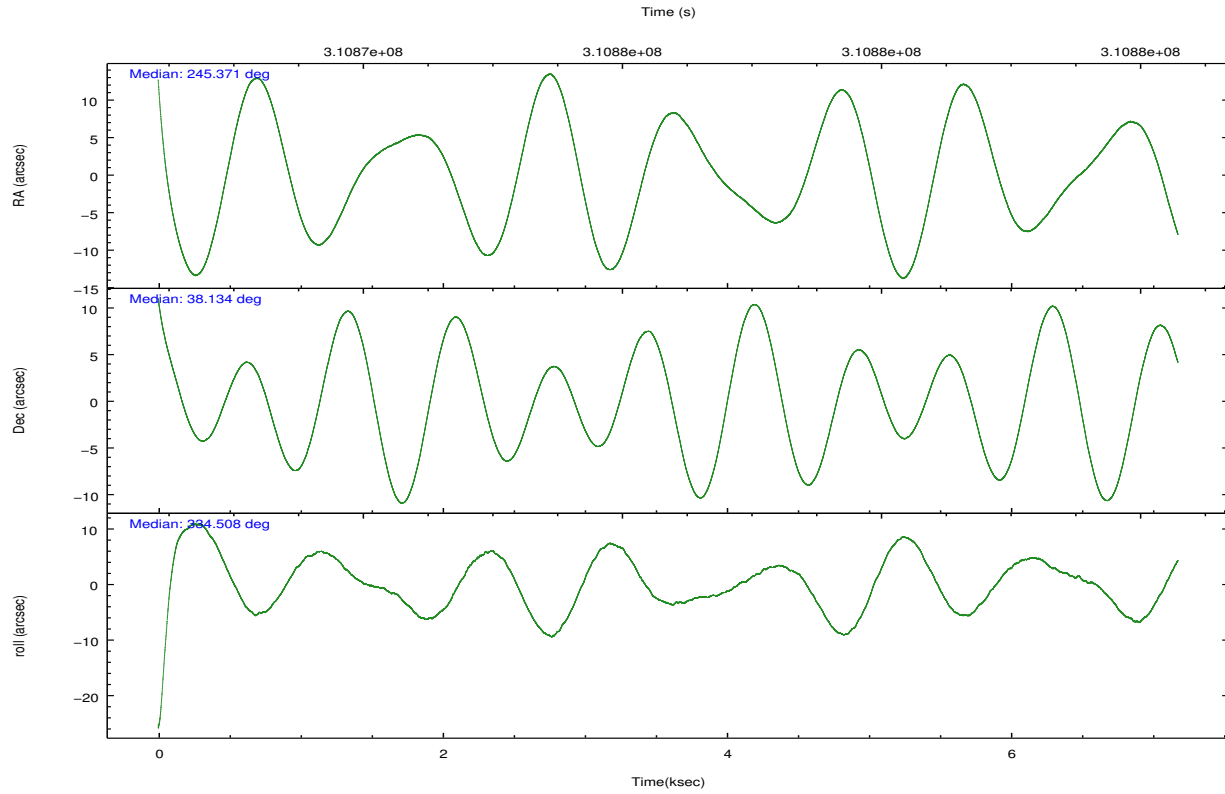
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1884	1854	1768	2860
	3%	3%	3%	5%
grade 1 events	28	24	20	46
	0%	0%	0%	0%
grade 2 events	1072	1000	1093	1017
	2%	2%	1%	1%
grade 3 events	486	539	449	526
	0%	1%	0%	0%
grade 4 events	483	530	484	504
	0%	1%	0%	0%
grade 5 events	847	993	776	1041
	1%	2%	1%	1%
grade 6 events	623	813	535	699
	1%	1%	0%	1%
grade 7 events	44170	41921	50946	46730
	89%	87%	90%	87%

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	245.336426	245.3712523271169	Subarray requested	NONE	NONE
[deg] Pointing Dec	38.132003	38.13432181777144	Alternating exposures requested	N	N
[deg] Pointing Roll	334.324352	334.5114943511152	[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)	310872940.184000	310871913.7401			
Observation start date	2007-11-08T01:34:35	2007-11-08T01:18:33			
[s] Observation end time (MET)	310879940.184000	310880650.84052			
Observation end date	2007-11-08T03:31:15	2007-11-08T03:44:10			
Read mode	TIMED	TIMED			

2.3 Aspect



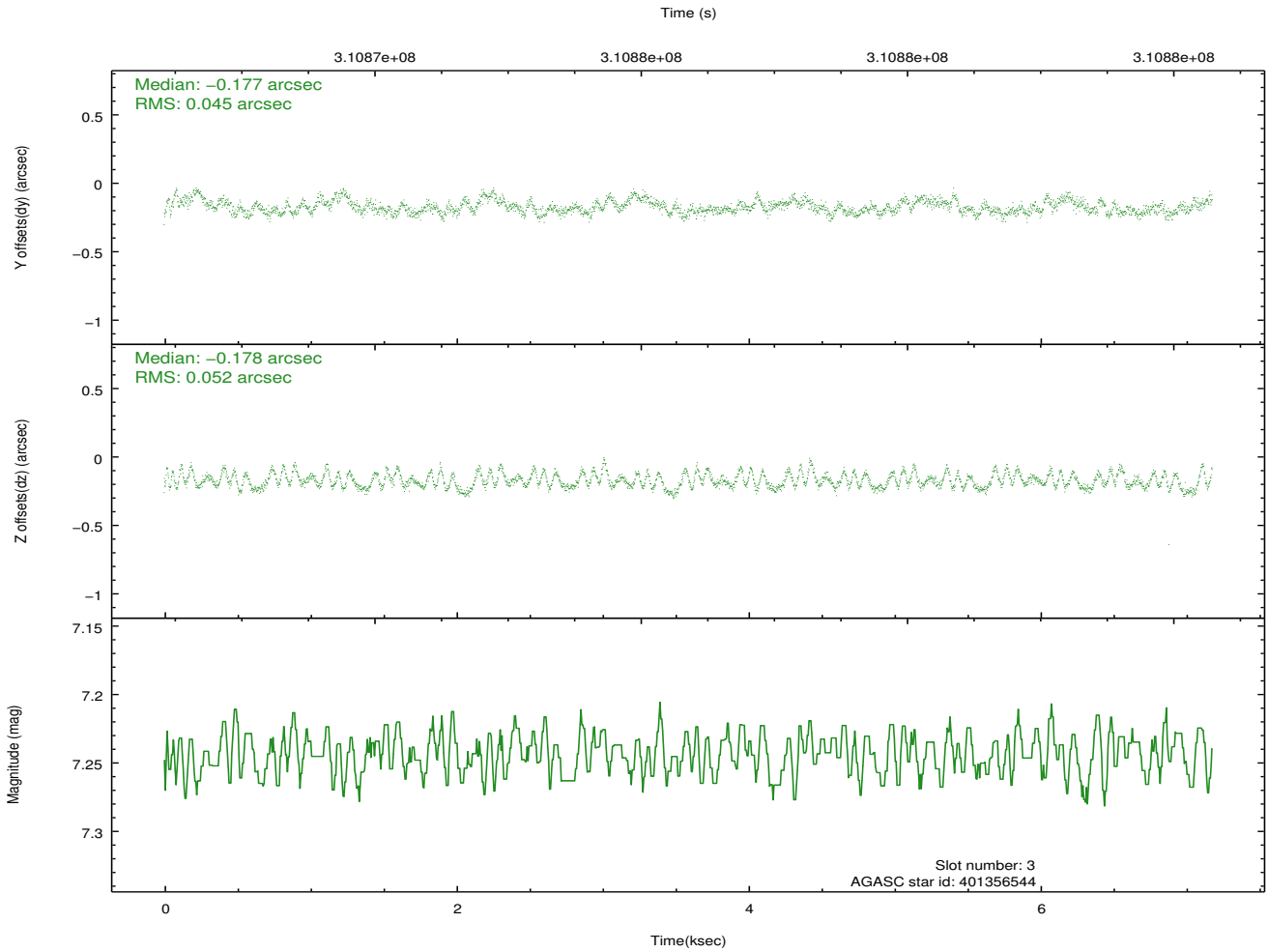
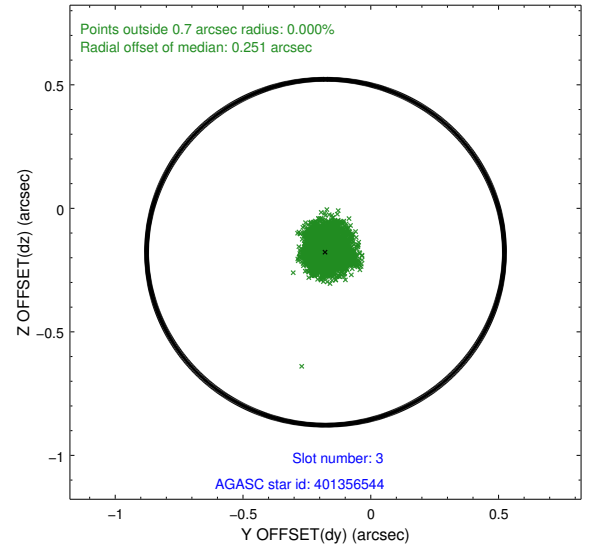
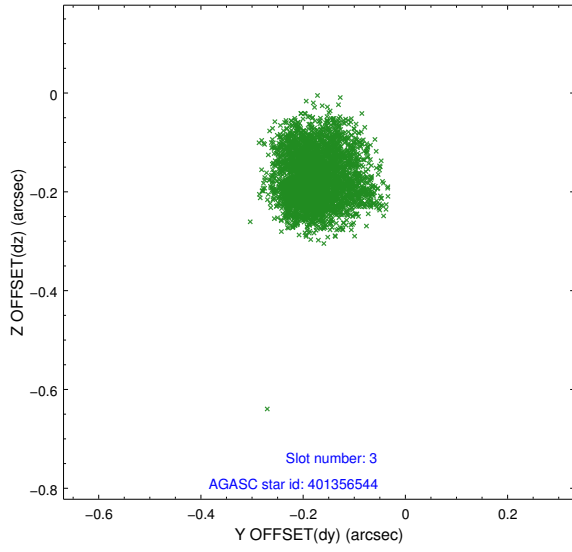


Slot Statistics

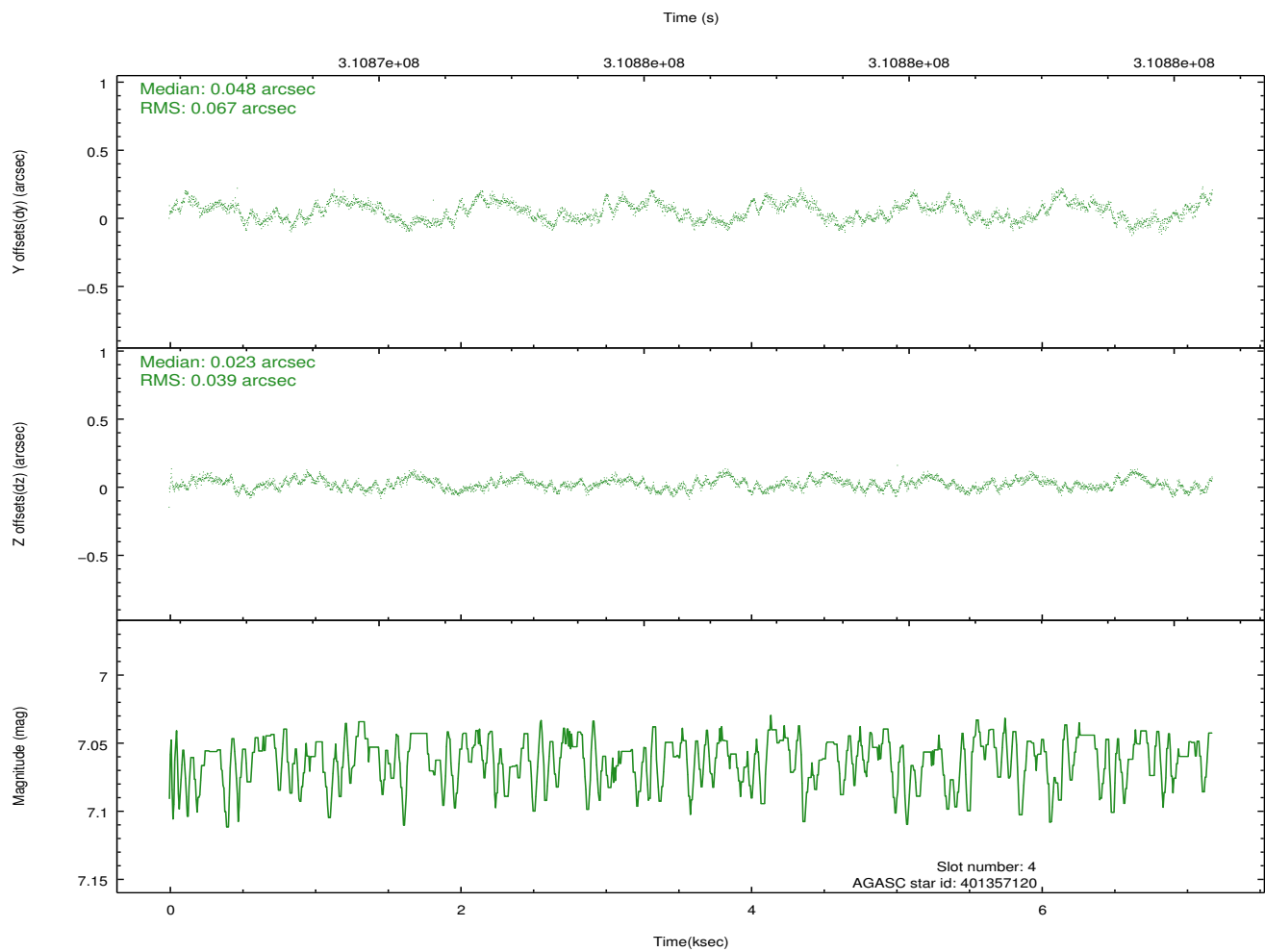
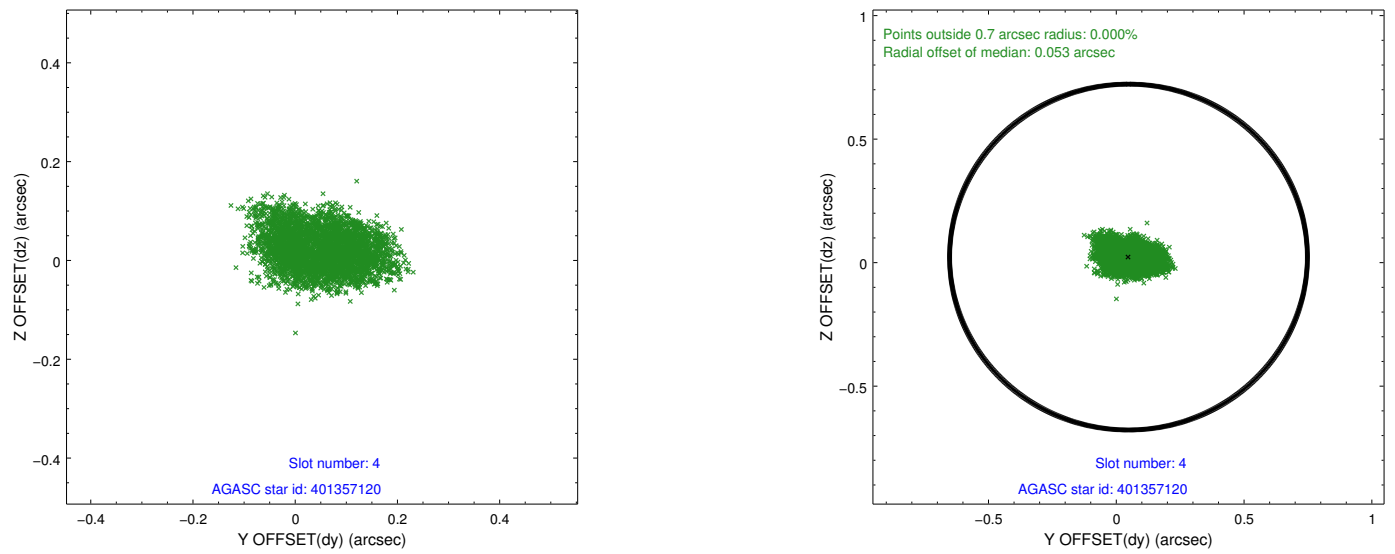
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	1750	0.066	-0.042	0.006	0.011	0.000000	0.000000	925.59	-840.28
1	FID	ACIS-I-5	7.22	1751	-0.219	0.065	0.006	0.010	0.000000	0.000000	-1822.32	1056.99
2	FID	ACIS-I-6	7.23	1751	0.061	0.047	0.007	0.011	0.000000	0.000000	390.32	1702.32
3	GUIDE	401356544	7.24	3503	-0.177	-0.178	0.074	0.116	246.068366	38.478292	1315.47	2024.60
4	GUIDE	401357120	7.06	3503	0.048	0.023	0.083	0.130	244.752378	37.765715	-927.97	-1903.75
5	GUIDE	401357328	8.95	3496	0.023	0.043	0.203	0.291	246.205033	38.152914	2178.66	1143.25
6	GUIDE	401357888	8.51	3503	0.066	0.140	0.084	0.129	244.567474	38.275306	-2184.86	-468.19
7	GUIDE	401357920	8.38	3502	0.047	-0.011	0.080	0.129	245.268524	37.658915	563.43	-1618.86

2.4 Star Slots

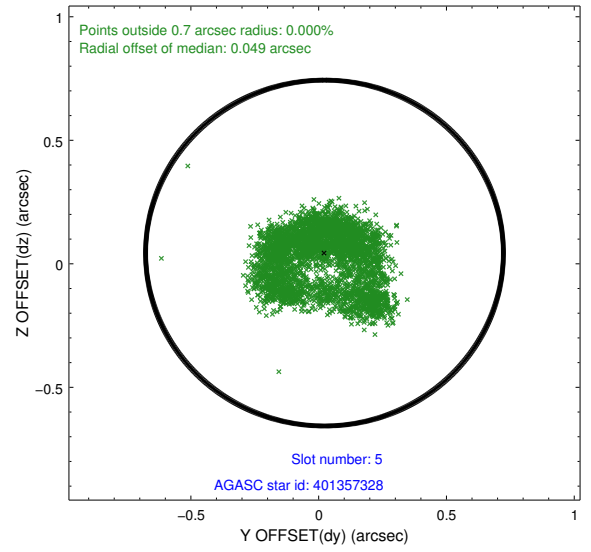
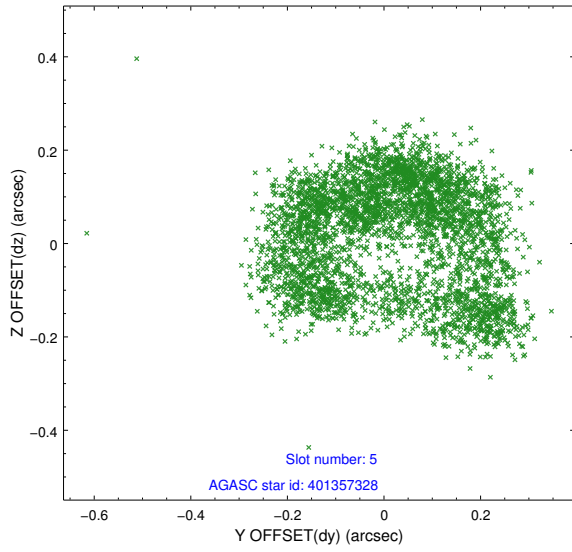
2.4.1 Slot 3



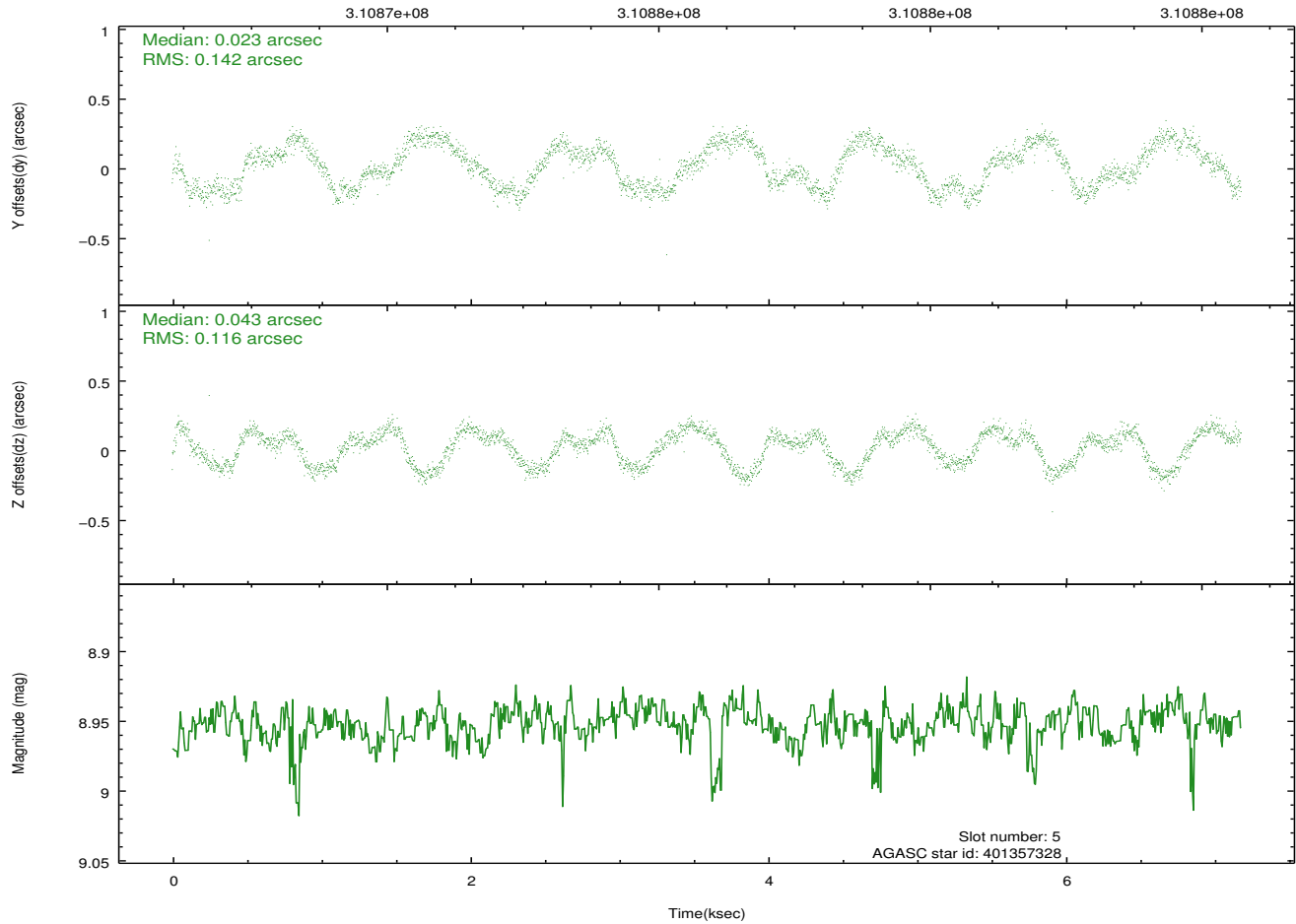
2.4.2 Slot 4



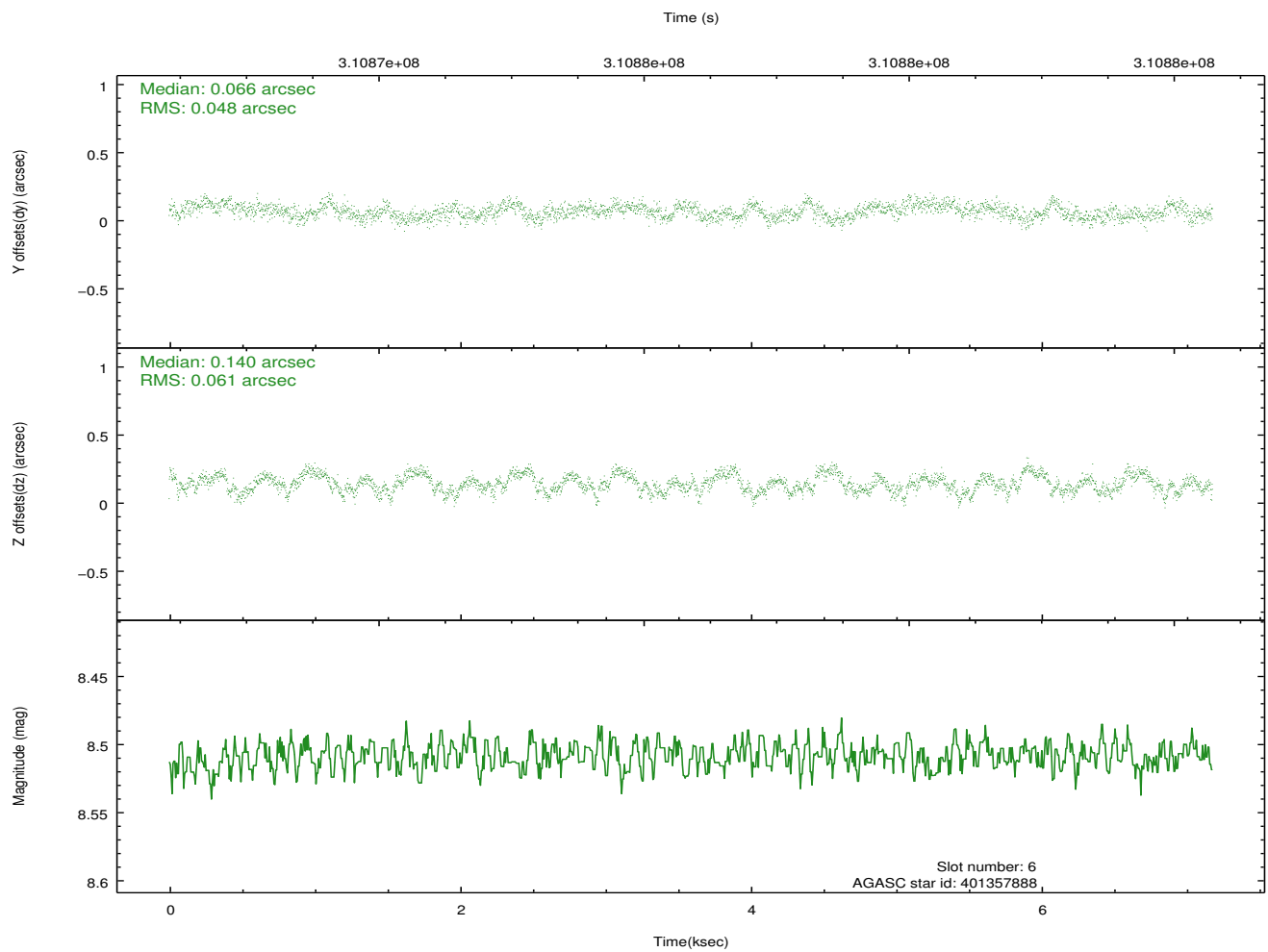
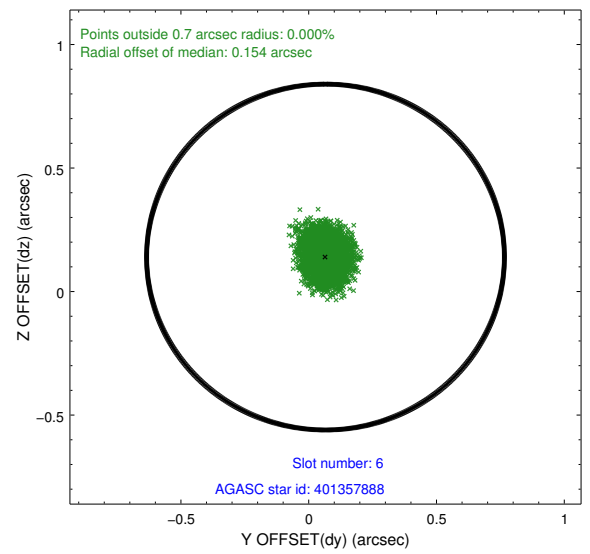
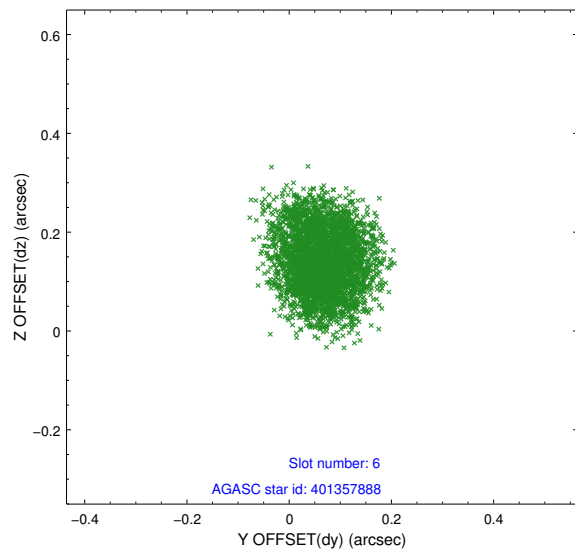
2.4.3 Slot 5



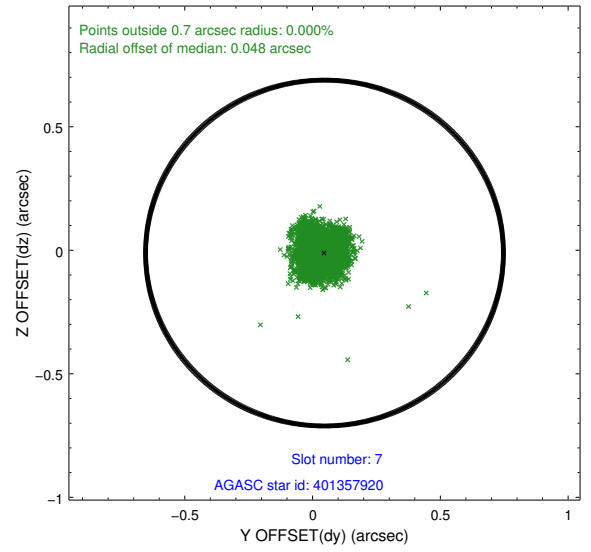
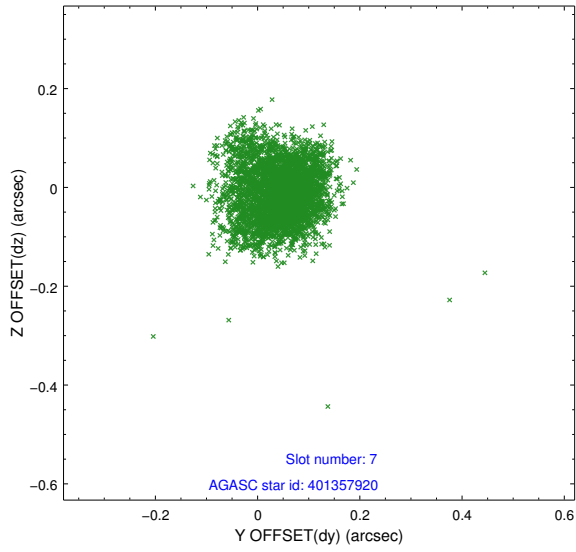
Time (s)



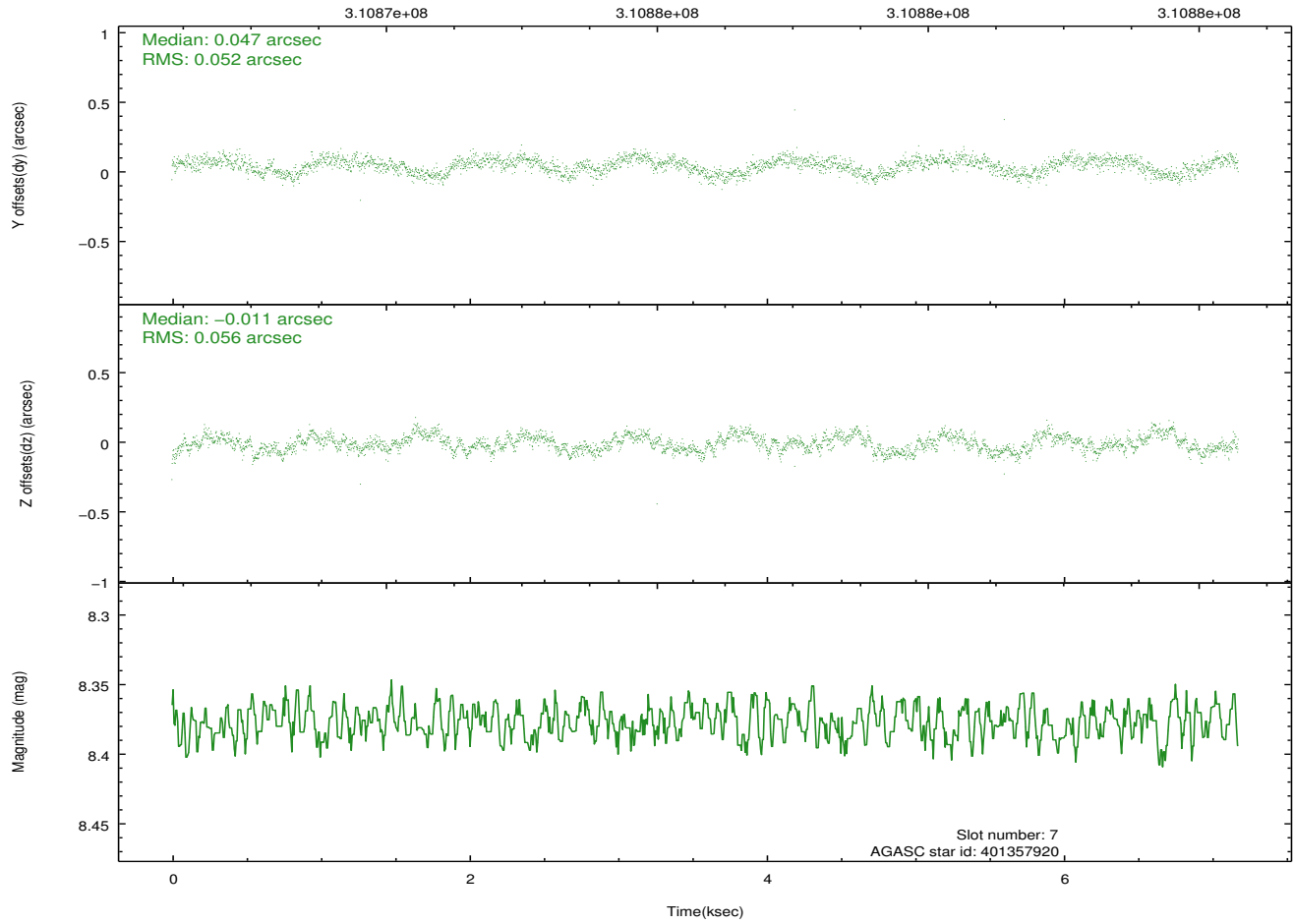
2.4.4 Slot 6



2.4.5 Slot 7

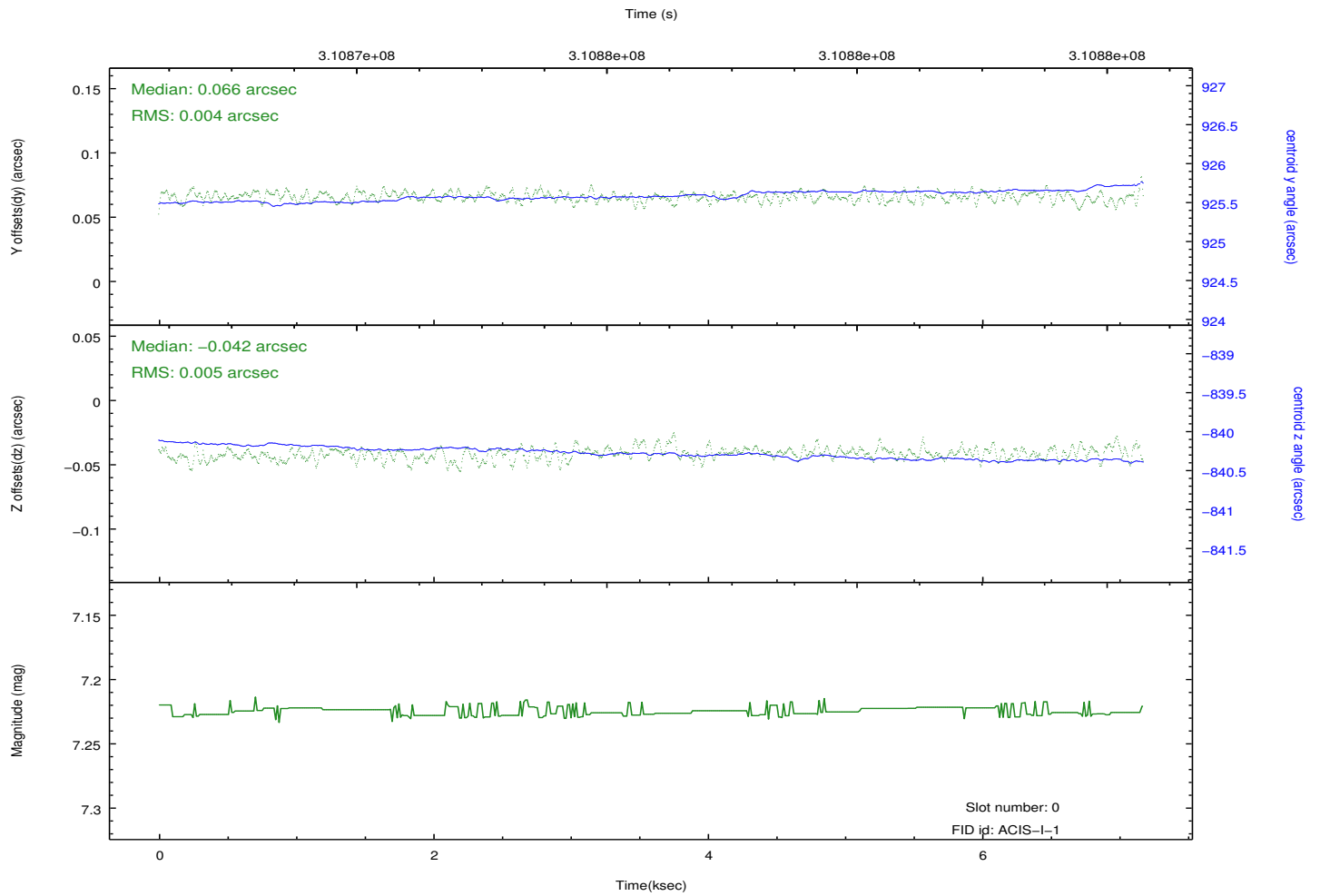
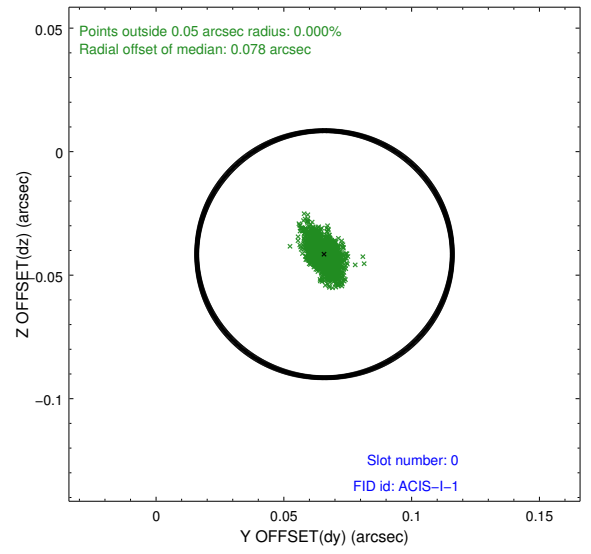
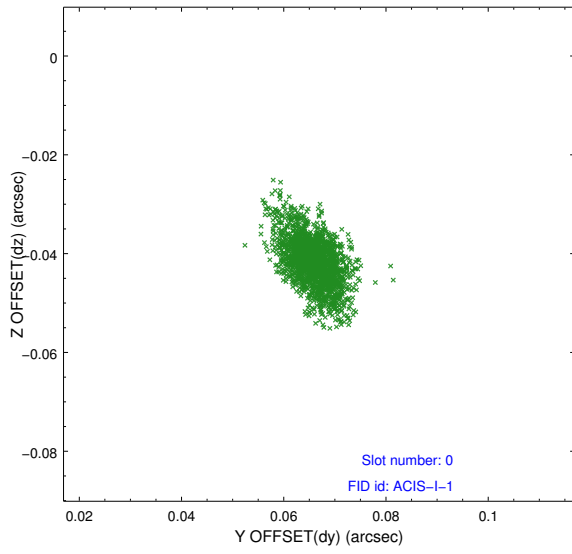


Time (s)

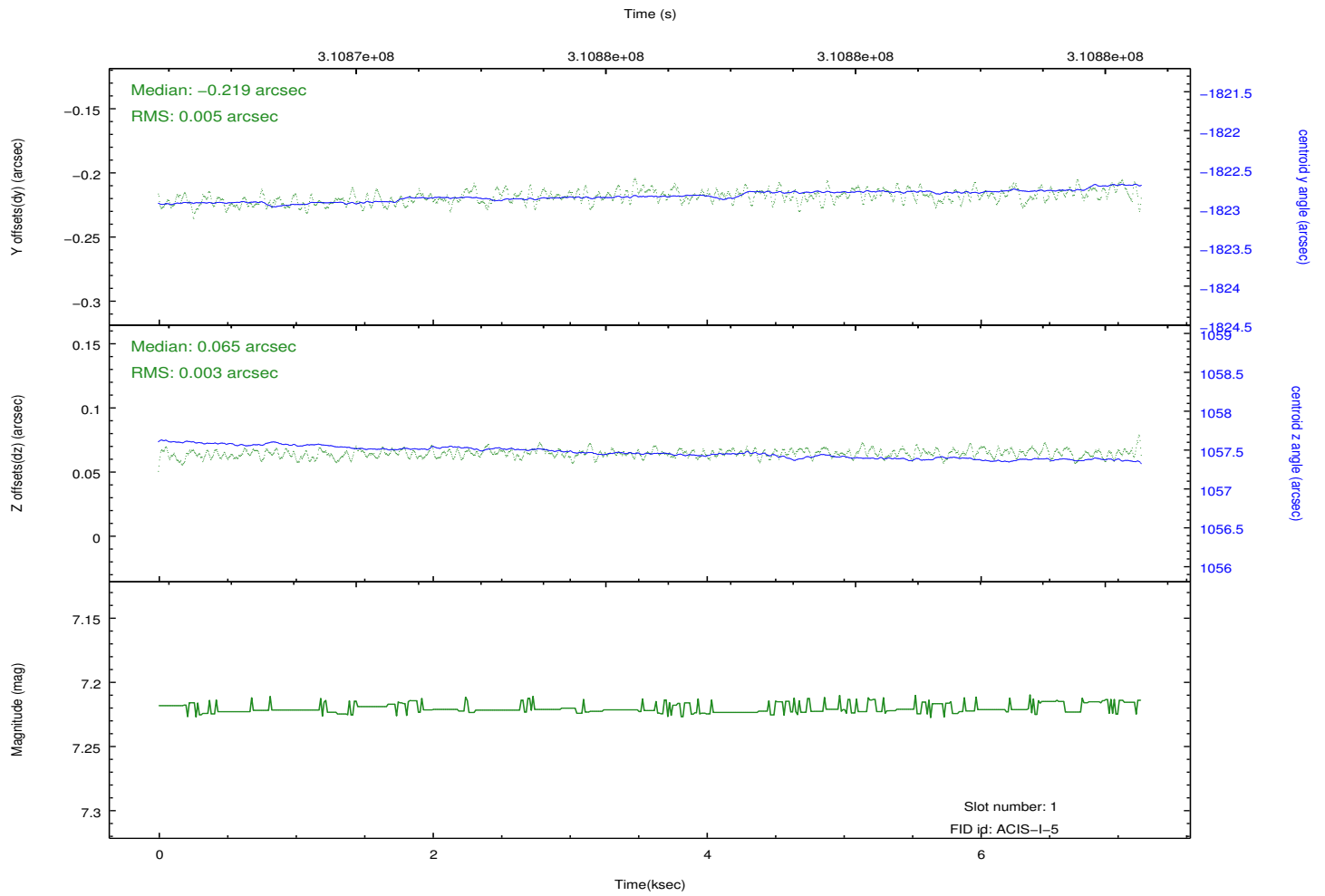
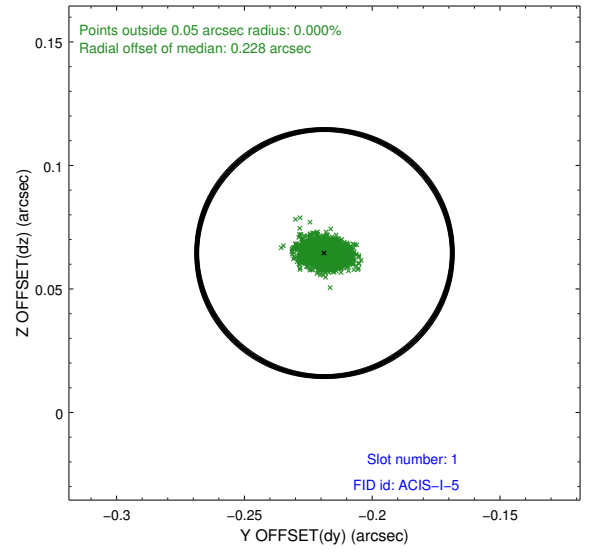
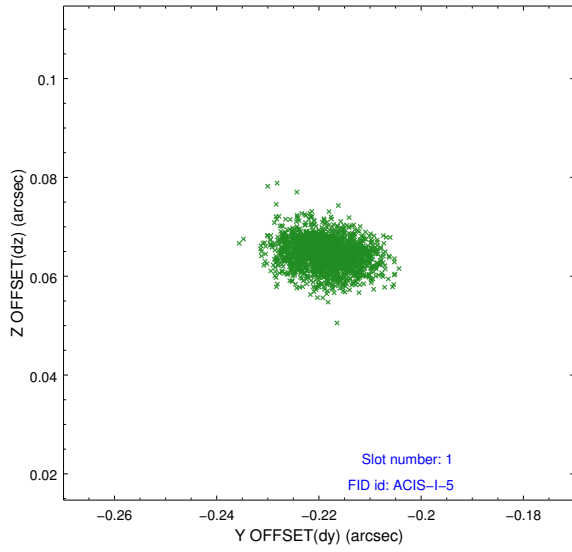


2.5 FID Slots

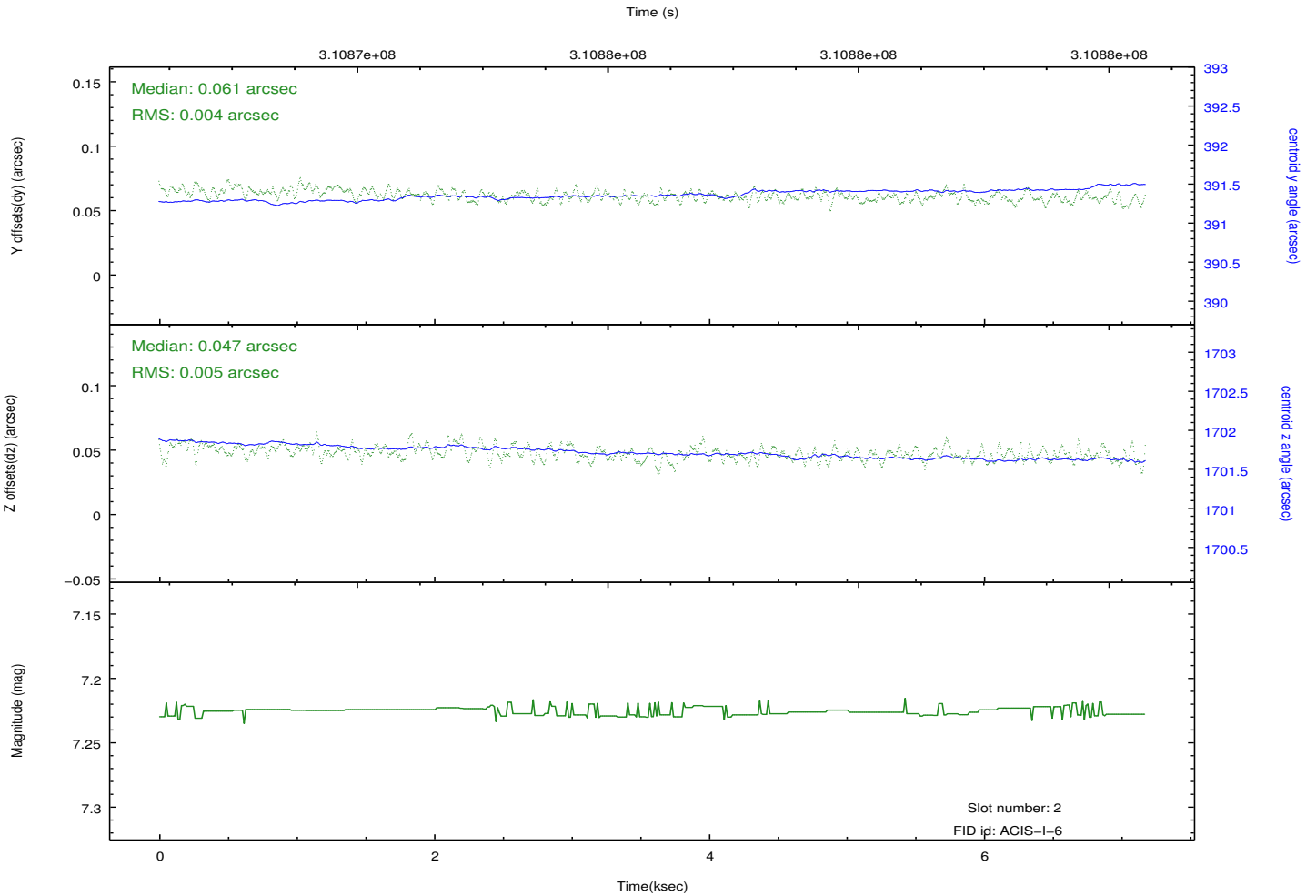
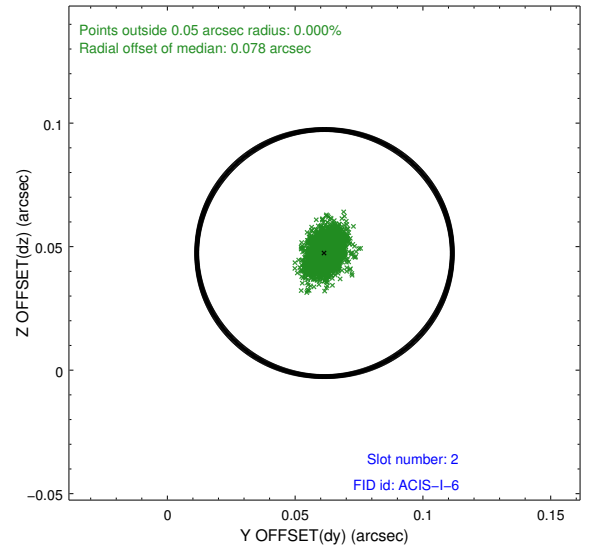
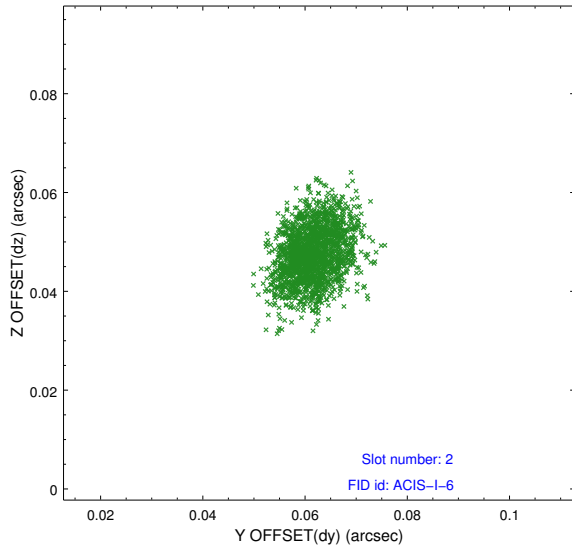
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.17030005

A.2 Comments