

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16231 - L2 Version 1
Chandra X-Ray Center

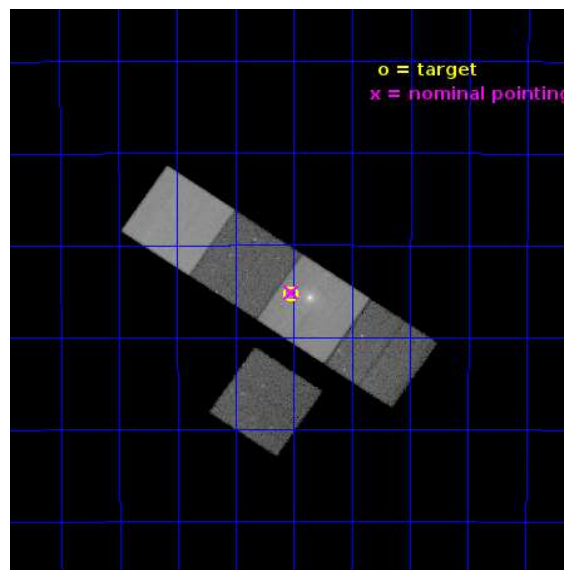
L2 Processing Date : Oct 21 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

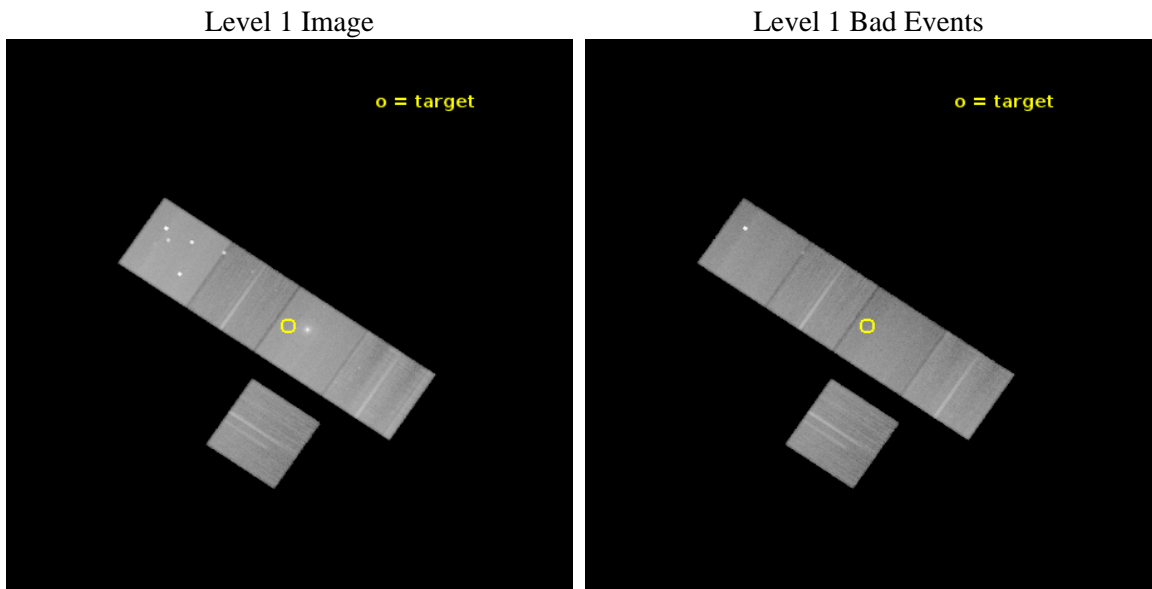
seq_num	801415	Sequence number
obs_id	16231	Observation id
title	Hydrodynamics of merging and stripping in the Fornax Cluster: A Deep Chandra observation of NGC 1404	Proposal title
observer	Dr. Ralph Kraft	Principal investigator
object	NGC 1404	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.755	Observer's specified target RA [deg]
dec_targ	-35.5885	Observer's specified target Dec [deg]
ra_nom	54.754964173269	Nominal RA [deg]
dec_nom	-35.585384445231	Nominal Dec [deg]
roll_nom	34.156600268833	Nominal Roll [deg]
revision	1	Processing version of data
ontime	61293.200471401	Sum of GTIs [s]
livetime	60492.359683845	Livetime [s]
ontime3	61286.918460667	Sum of GTIs [s]
ontime5	61293.200471401	Sum of GTIs [s]
ontime6	61293.200471401	Sum of GTIs [s]
ontime7	61293.200471401	Sum of GTIs [s]
ontime8	61290.05943048	Sum of GTIs [s]
l2events	609090	Number of level 2 events



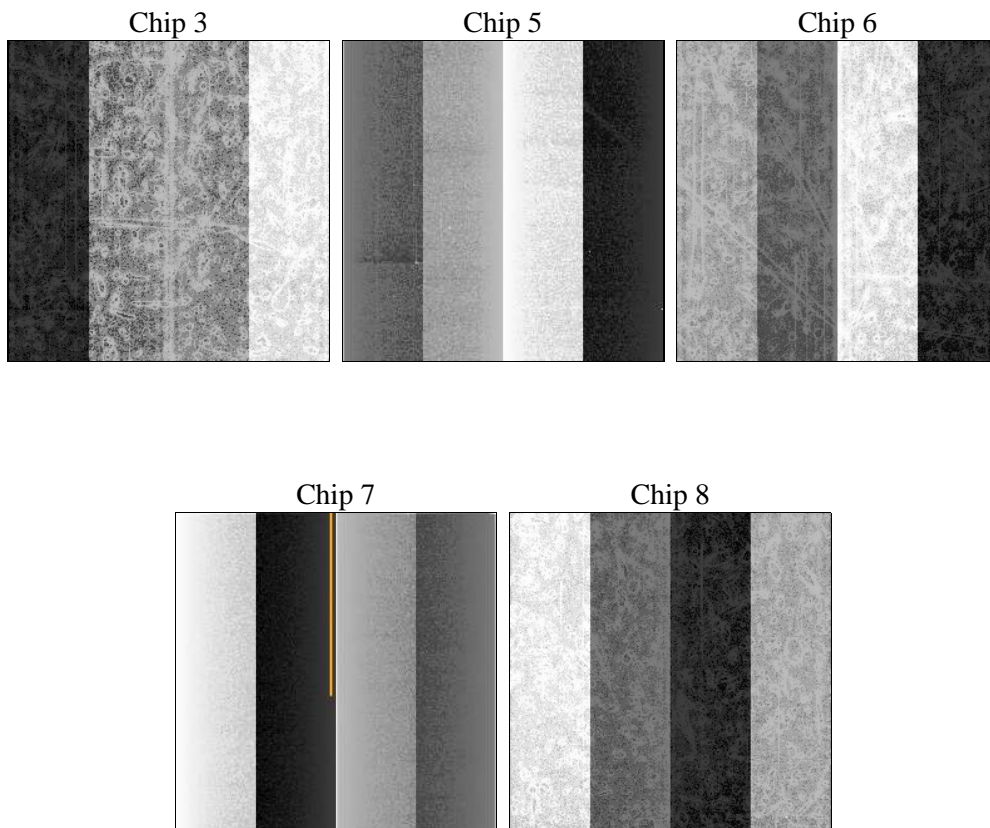
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	61231.257000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	61293.200471401	Sum of GTIs [s]
caldbver	4.6.3	 	ontime3	61286.918460667	Sum of GTIs [s]
date	2014-10-22T02:22:52	Date and time of file creation	ontime5	61293.200471401	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	61293.200471401	Sum of GTIs [s]
			ontime7	61293.200471401	Sum of GTIs [s]
			ontime8	61290.05943048	Sum of GTIs [s]
			l1events	2168500	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	309419	595011	336856	484343	442871
rejected events	269607	298794	285909	249233	320250
rejected %	87%	50%	84%	51%	72%

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16151	53596	22928	31518	37954
	5%	9%	6%	6%	8%
grade 1 events	205	1233	195	530	335
	0%	0%	0%	0%	0%
grade 2 events	8196	81872	9946	51679	28190
	2%	13%	2%	10%	6%
grade 3 events	3886	10033	4281	21230	12839
	1%	1%	1%	4%	2%
grade 4 events	3956	9348	4246	21203	12057
	1%	1%	1%	4%	2%
grade 5 events	16562	38908	16711	45645	24342
	5%	6%	4%	9%	5%
grade 6 events	7630	141396	9555	109521	31592
	2%	23%	2%	22%	7%
grade 7 events	252833	258625	268994	203017	295562
	81%	43%	79%	41%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	54.740641	54.75496417326929	Subarray requested	NONE	NONE
[deg] Pointing Dec	-35.610247	-35.58538444523052	Alternating exposures requested	N	N
[deg] Pointing Roll	33.991643	34.15660026883339	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	530223668.184000	530222356.36726			
Observation start date	2014-10-20T20:20:01	2014-10-20T19:59:16			
[s] Observation end time (MET)	530284899.184000	530285127.88325			
Observation end date	2014-10-21T13:20:32	2014-10-21T13:25:27			
Read mode	TIMED	TIMED			

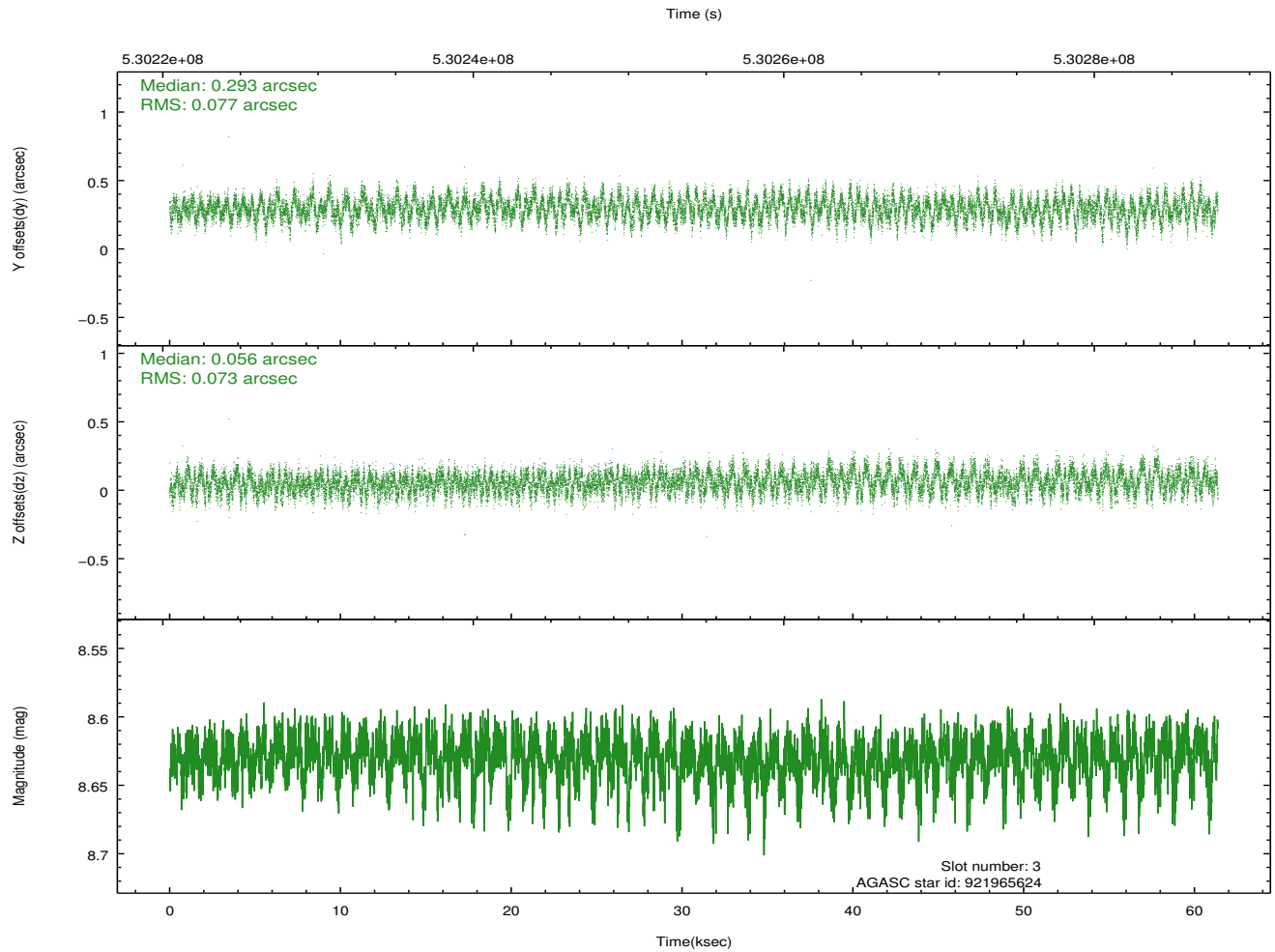
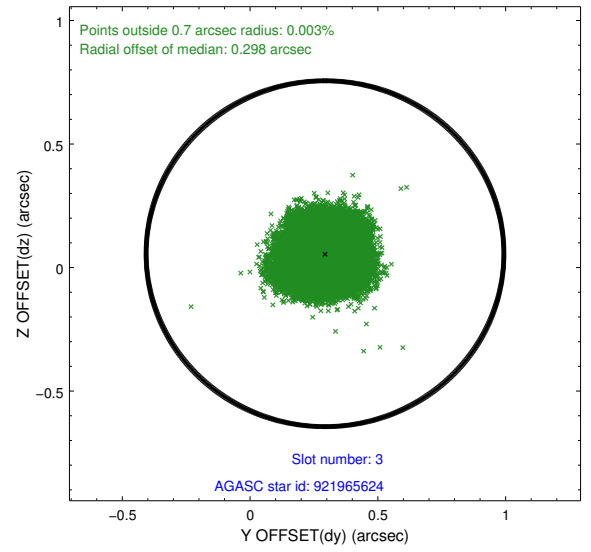
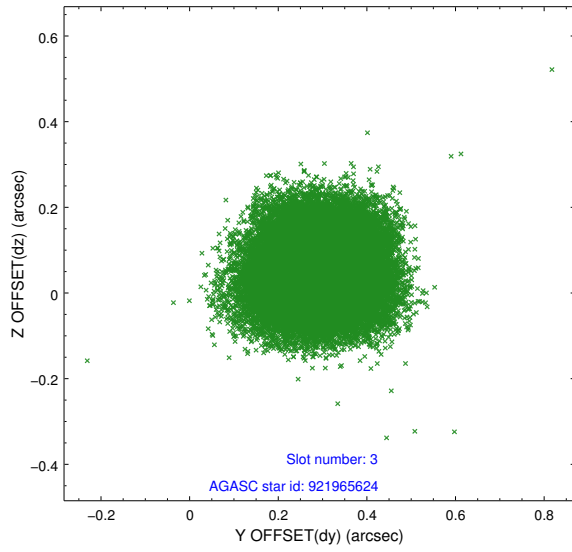
2.3 Aspect

Slot Statistics

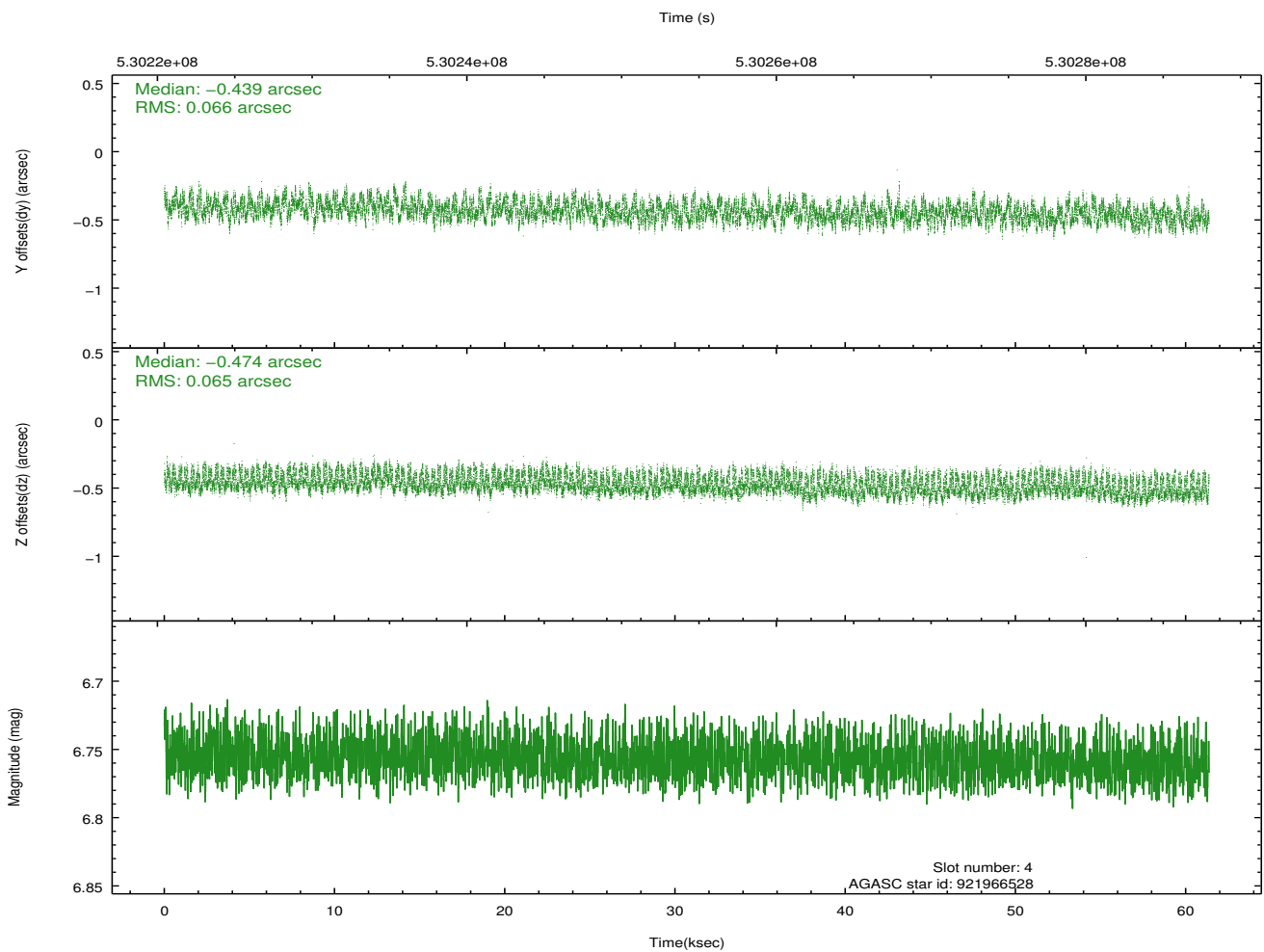
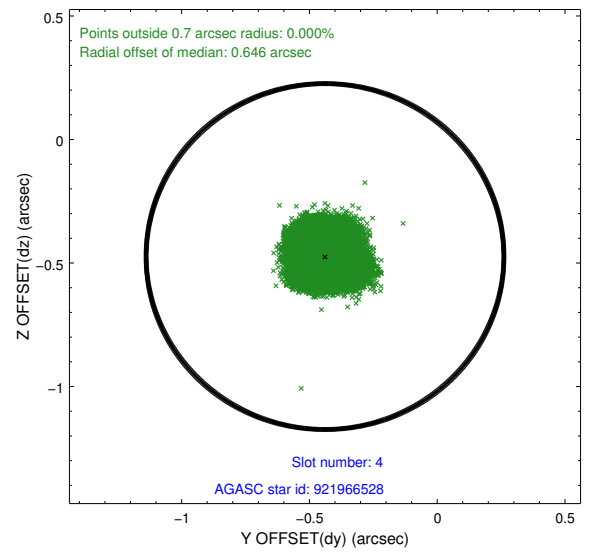
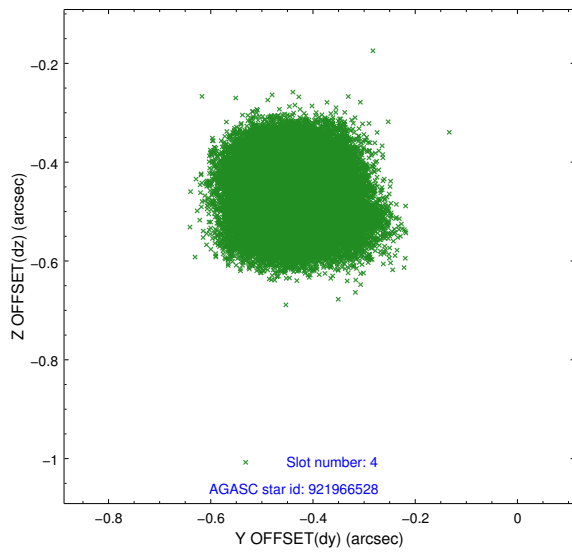
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	14970	-0.189	-0.014	0.032	0.057	0.000000	0.000000	-779.65	-1742.80
1	FID	ACIS-S-4	7.11	14970	0.375	0.094	0.039	0.074	0.000000	0.000000	2134.23	165.83
2	FID	ACIS-S-5	7.13	14969	-0.232	-0.066	0.034	0.044	0.000000	0.000000	-1832.59	159.30
3	GUIDE	921965624	8.63	29920	0.293	0.056	0.114	0.179	54.900706	-35.940077	-276.77	-1245.43
4	GUIDE	921966528	6.76	29936	-0.439	-0.474	0.102	0.151	54.675841	-35.204254	659.09	1318.09
5	GUIDE	921966544	7.92	29932	-0.060	0.188	0.087	0.141	54.743508	-35.636012	-45.53	-81.29
6	GUIDE	921970016	9.35	29908	0.117	0.379	0.155	0.261	54.228536	-36.081558	-2183.14	-577.85
7	GUIDE	921970112	9.57	29905	0.084	-0.152	0.129	0.210	54.291262	-35.695592	-1262.57	477.28

2.4 Star Slots

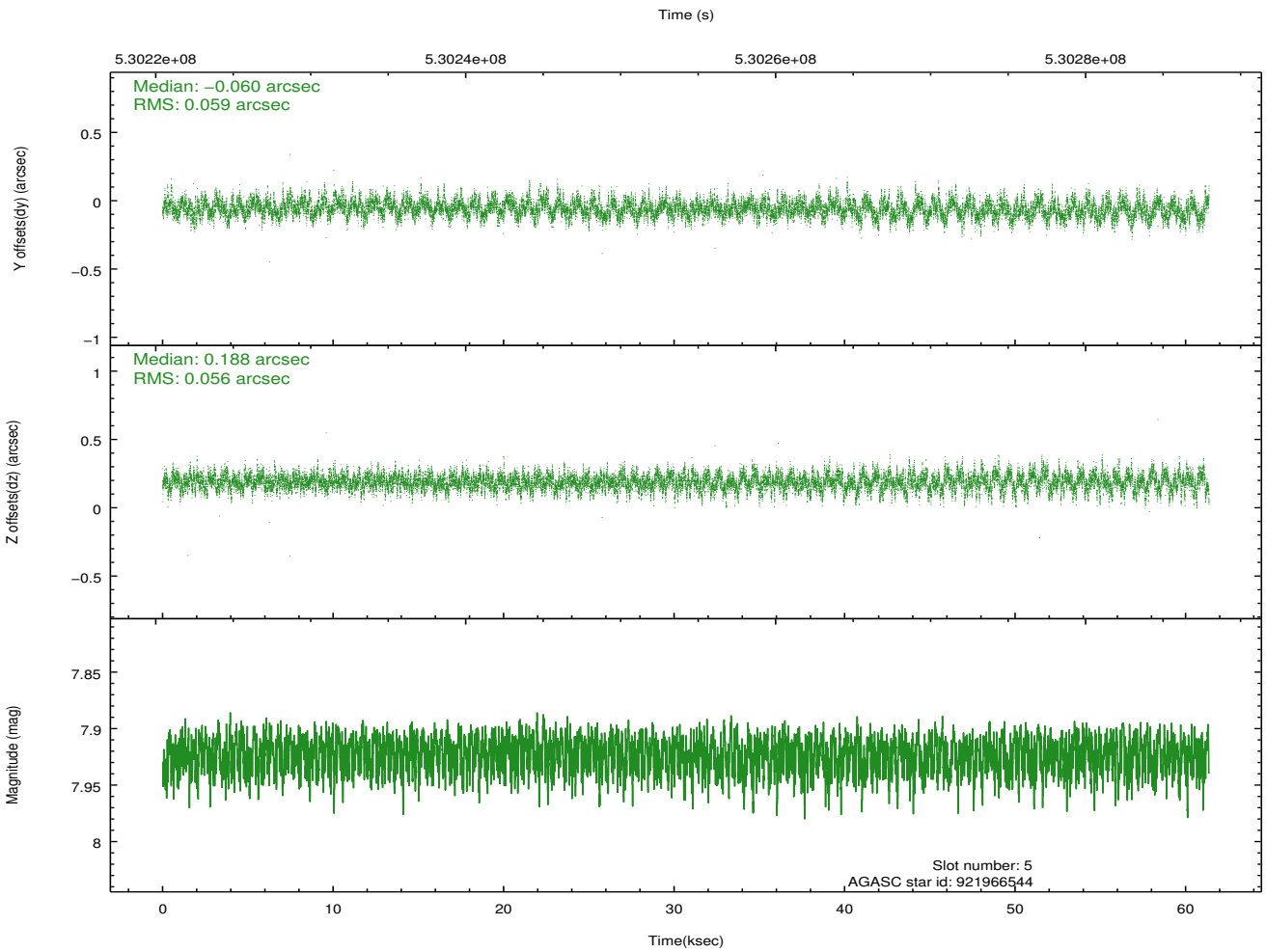
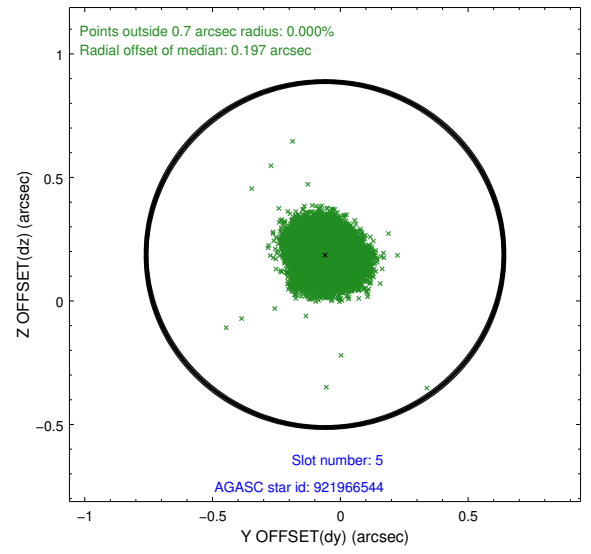
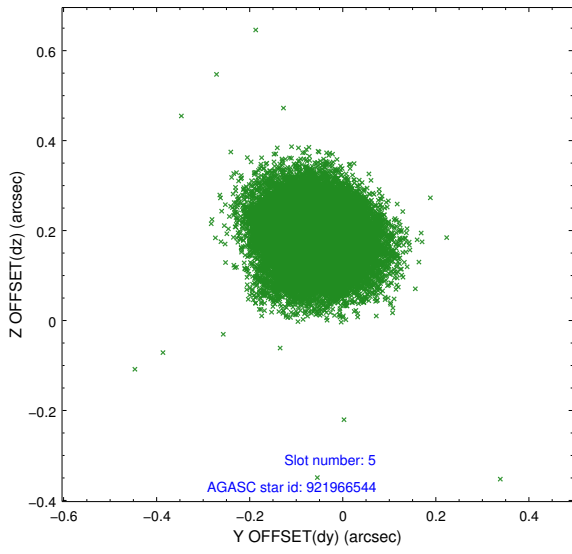
2.4.1 Slot 3



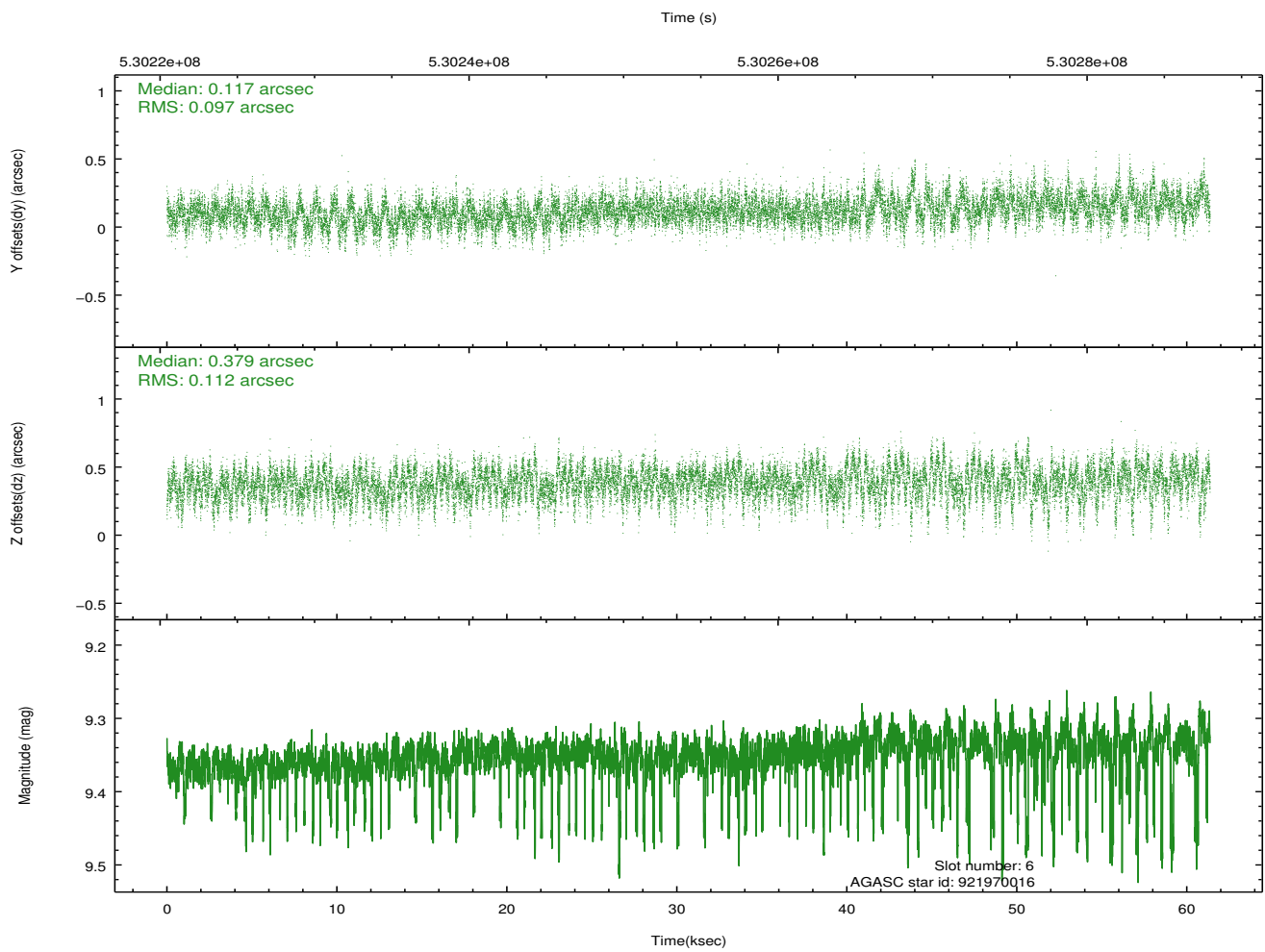
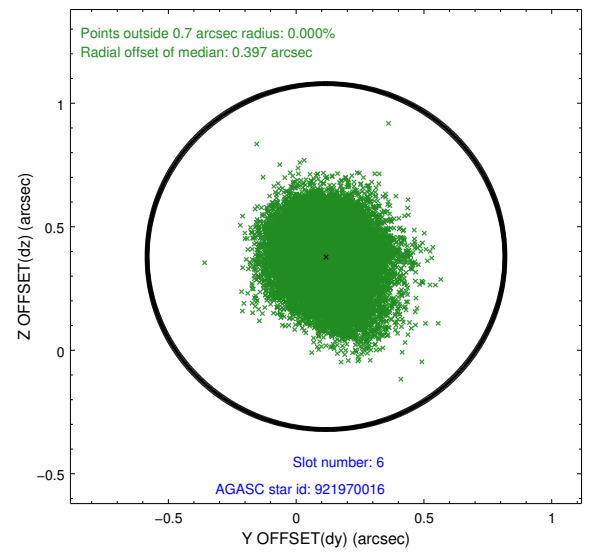
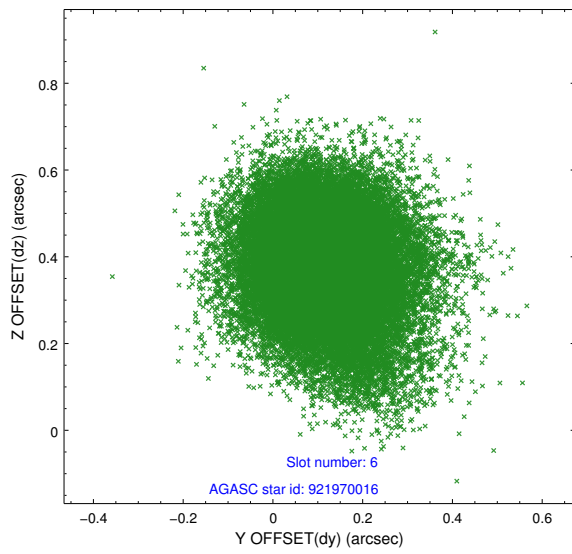
2.4.2 Slot 4



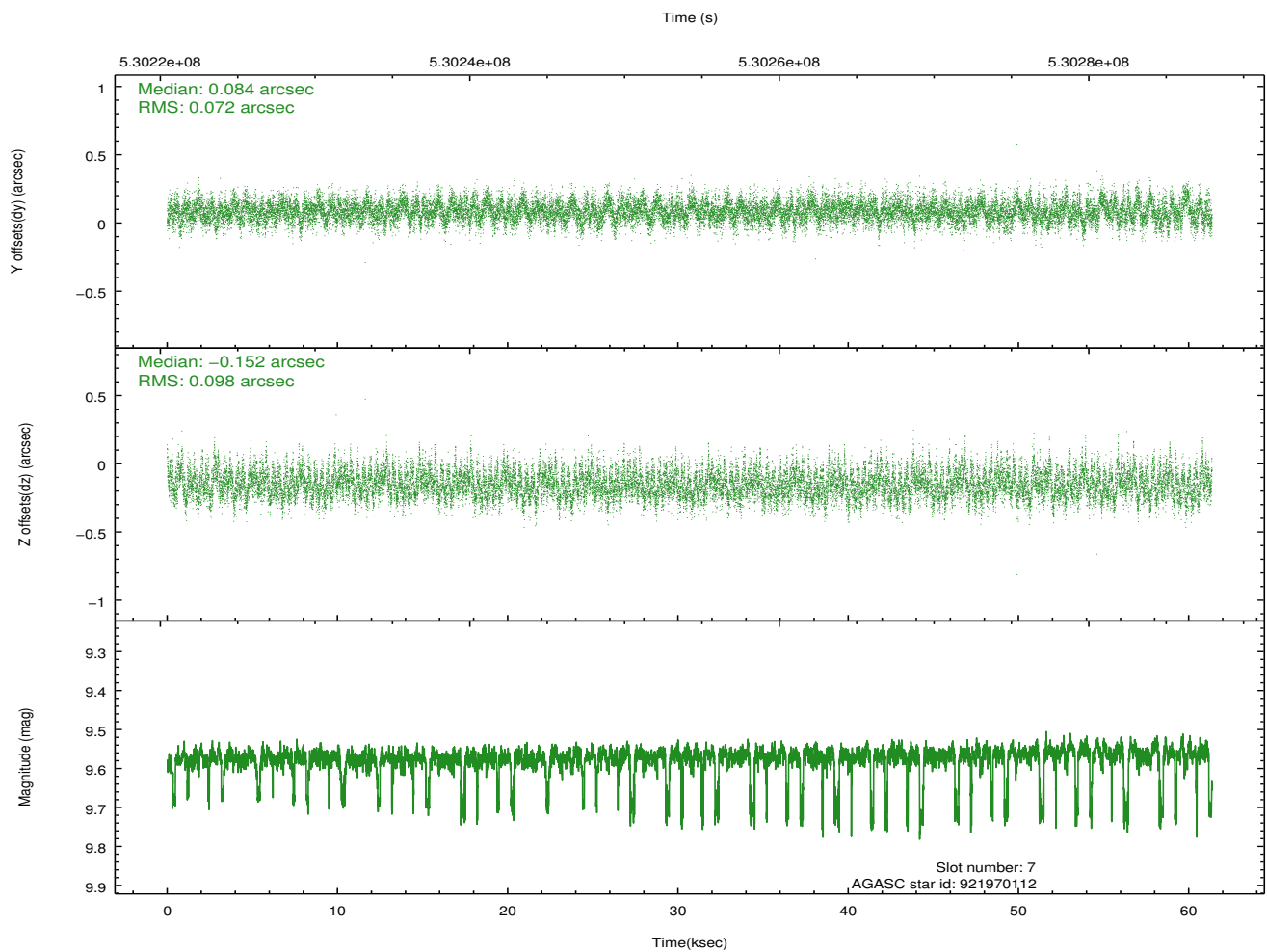
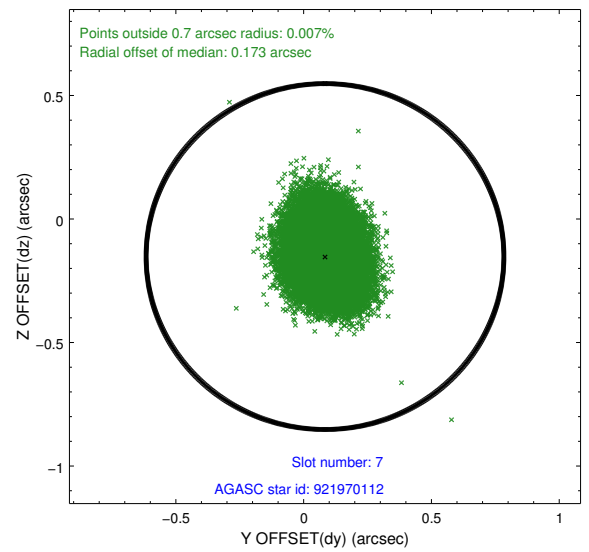
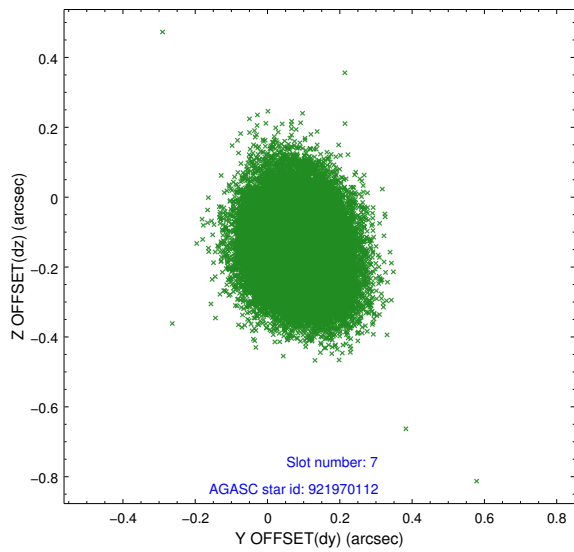
2.4.3 Slot 5



2.4.4 Slot 6

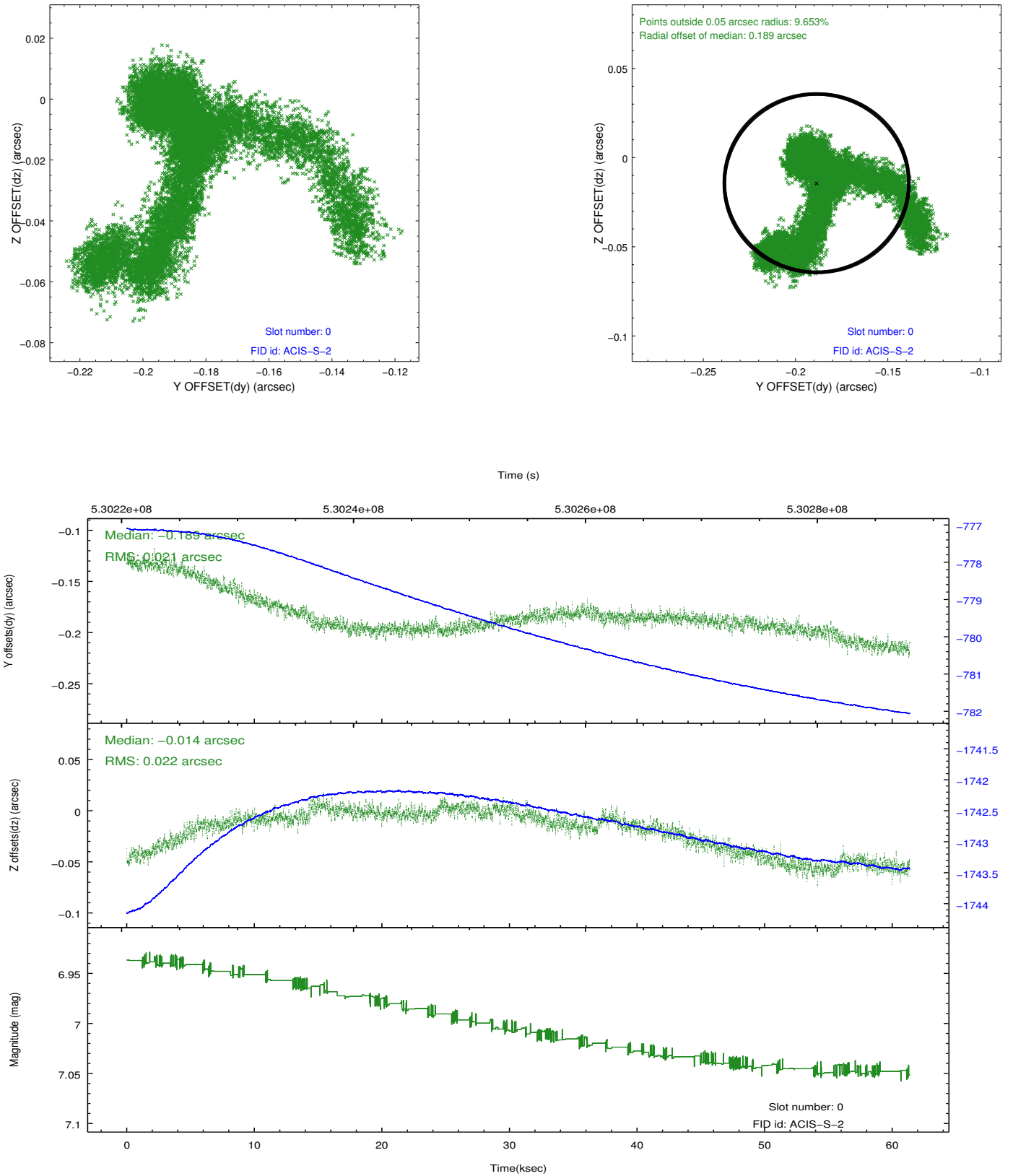


2.4.5 Slot 7

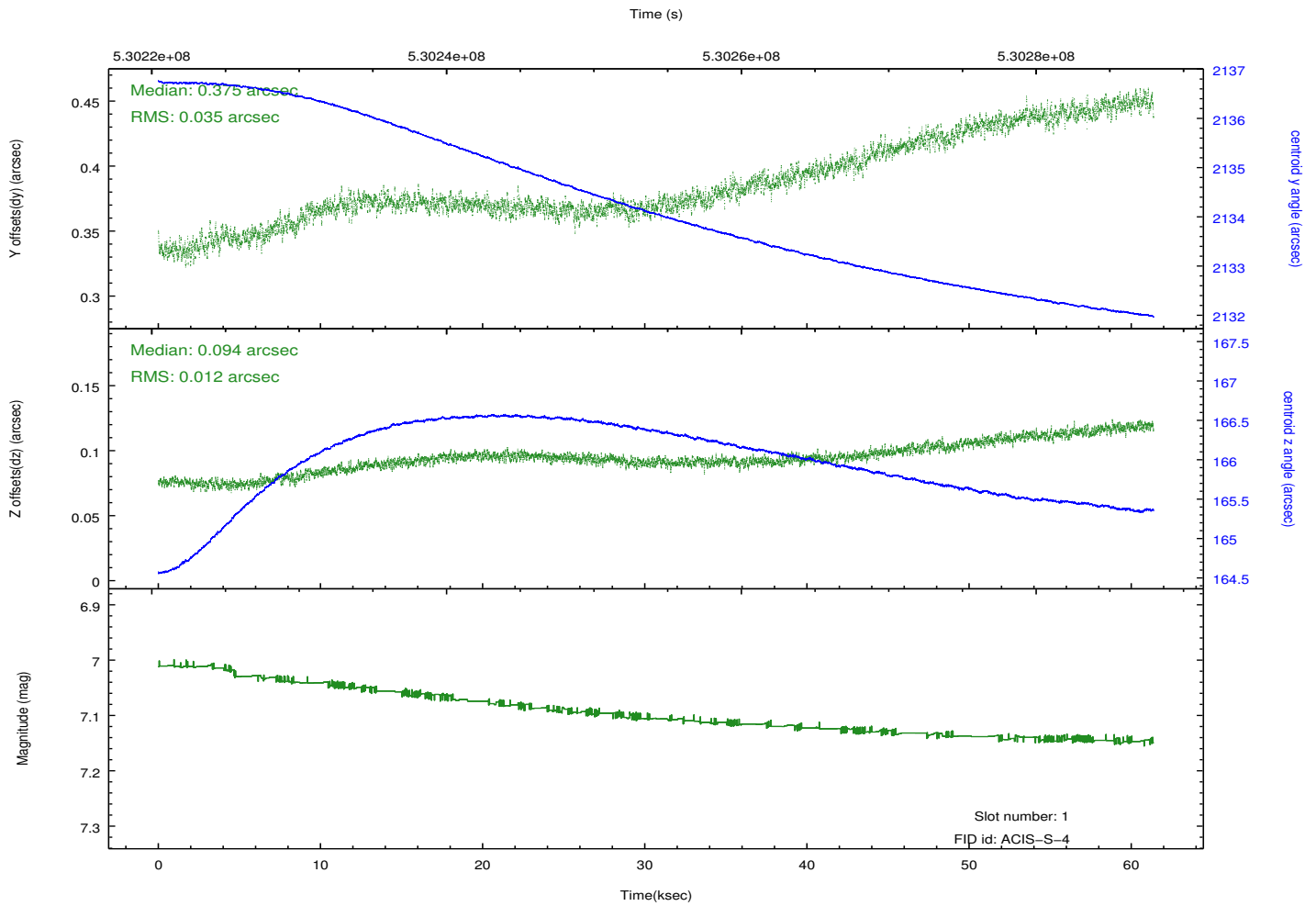
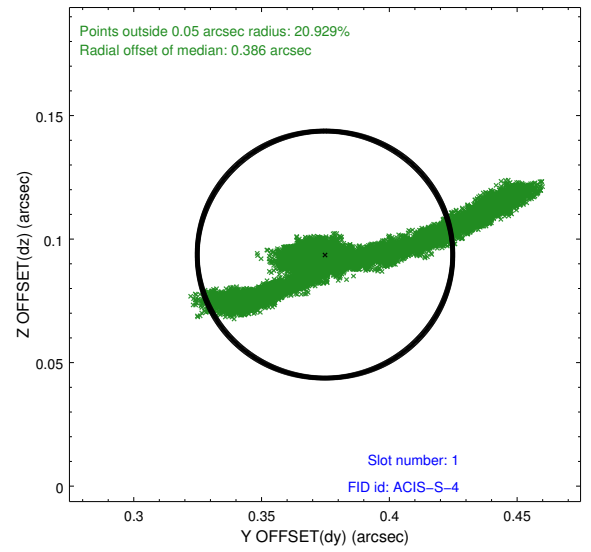
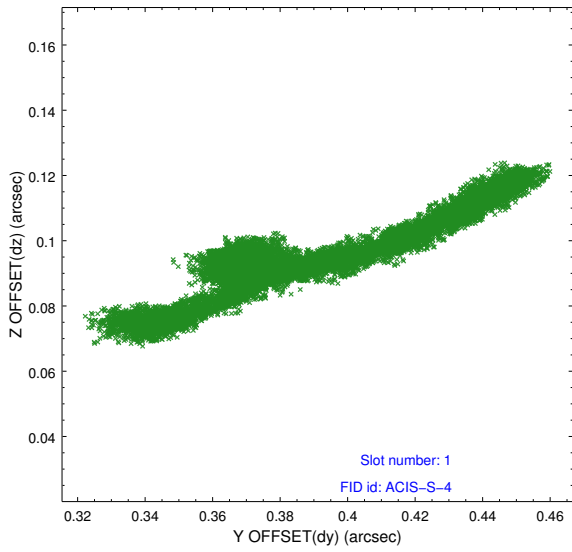


2.5 FID Slots

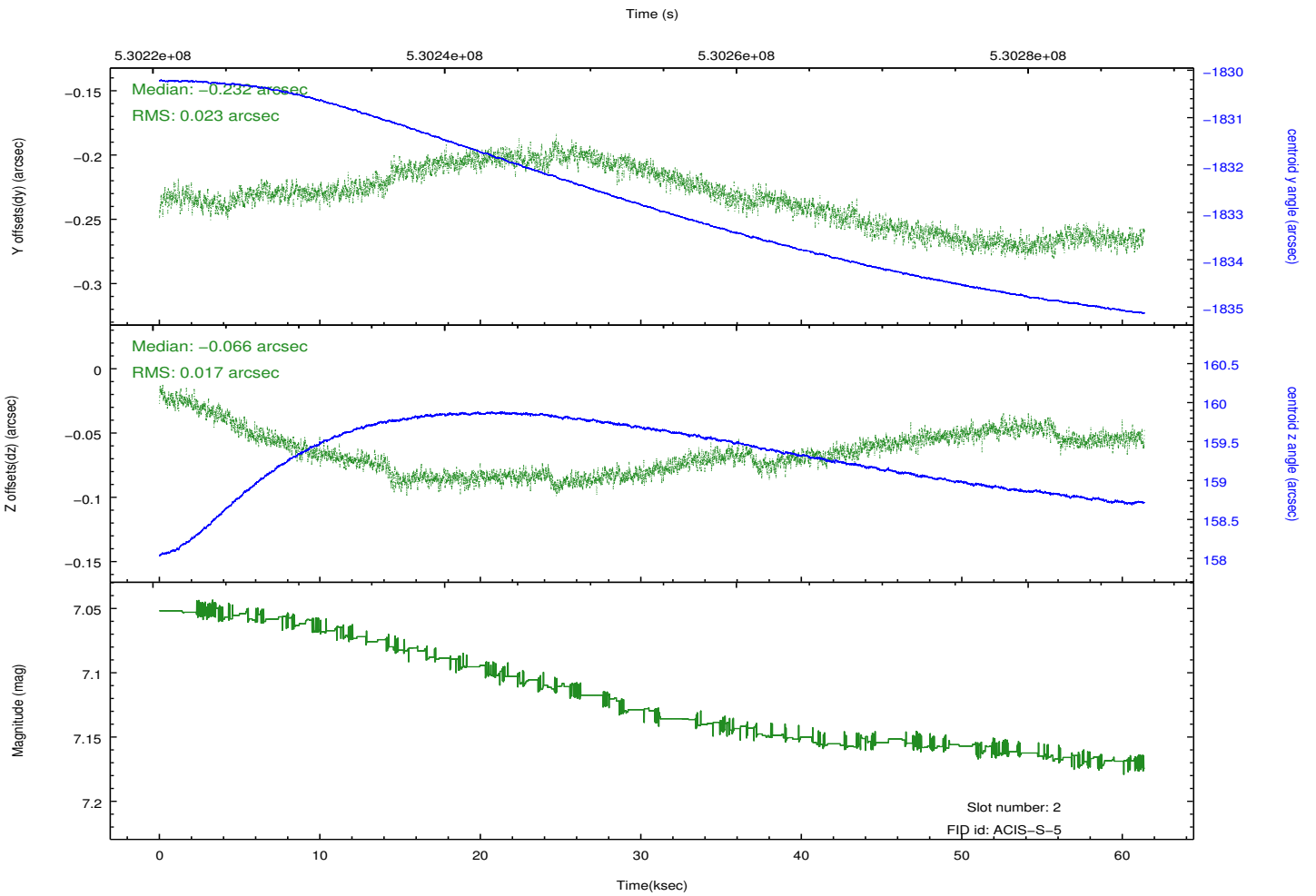
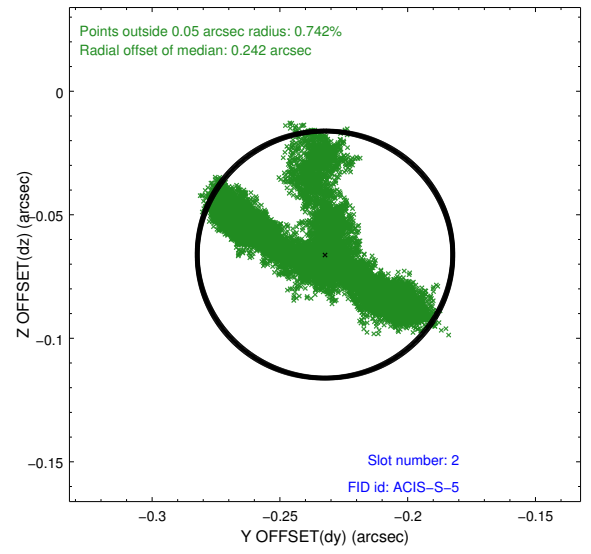
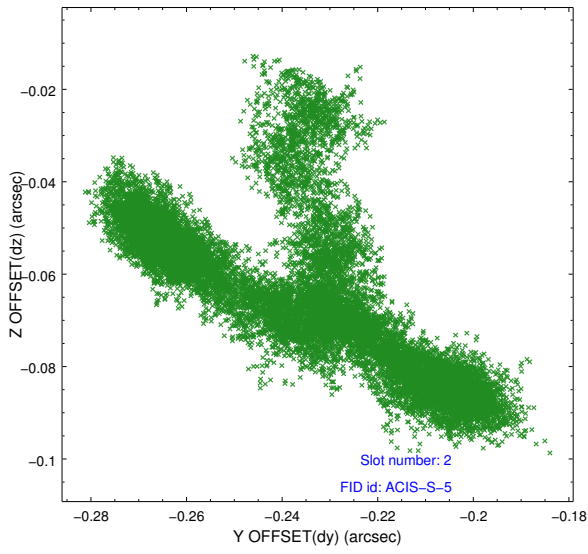
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	61.293200471401

A.2 Comments