

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17082 - L2 Version 1
Chandra X-Ray Center

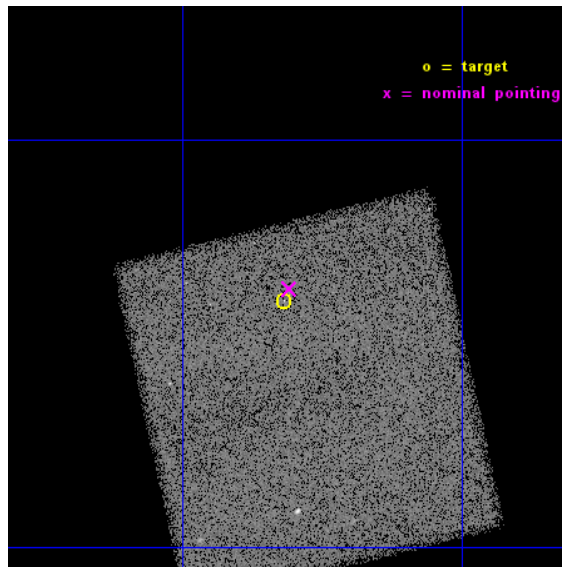
L2 Processing Date : Jan 27 2015

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

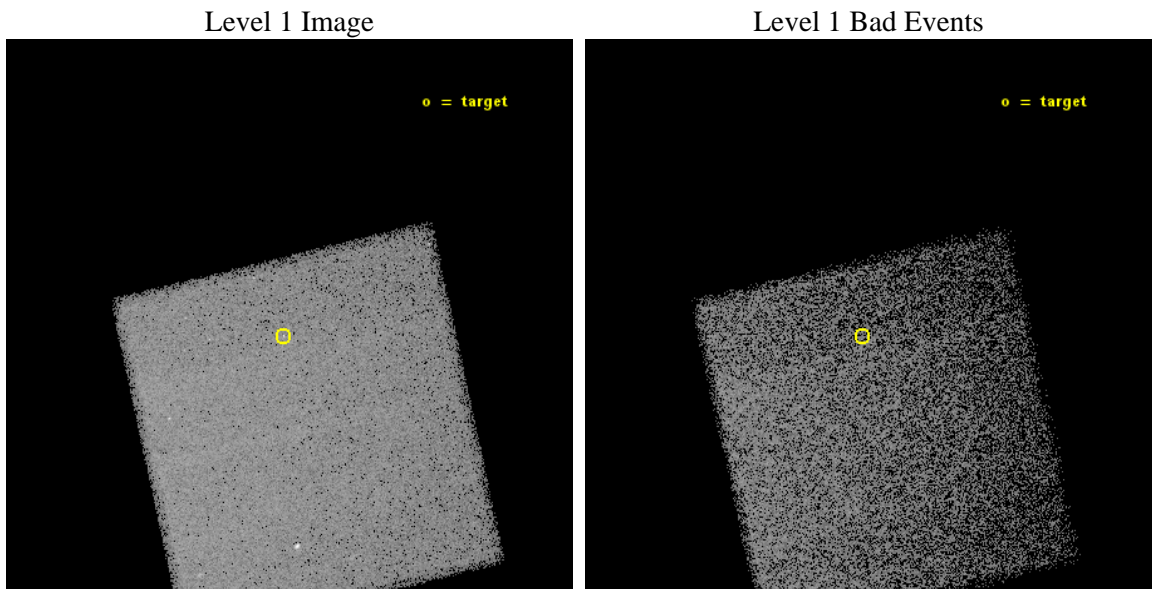
seq_num	703086	Sequence number
obs_id	17082	Observation id
title	The Central Engine of the Most Luminous Quasars	Proposal title
observer	Dr Enrico Piconcelli	Principal investigator
object	SDSS J111119.10+133603.8	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	167.829583	Observer's specified target RA [deg]
dec_targ	13.601083	Observer's specified target Dec [deg]
ra_nom	167.82712289397	Nominal RA [deg]
dec_nom	13.605957854162	Nominal Dec [deg]
roll_nom	77.029714545095	Nominal Roll [deg]
revision	1	Processing version of data
ontime	43644.0	Sum of GTIs [s]
livetime	43055.007497435	Livetime [s]
ontime7	43644.0	Sum of GTIs [s]
l2events	118422	Number of level 2 events



2 OBI

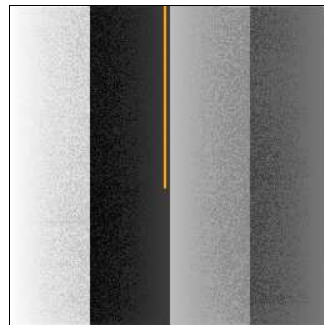
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43555.552000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	43644.0	Sum of GTIs [s]
caldbver	4.6.6	 	ontime7	43644.0	Sum of GTIs [s]
date	2015-01-27T20:11:31	Date and time of file creation	l1events	279019	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

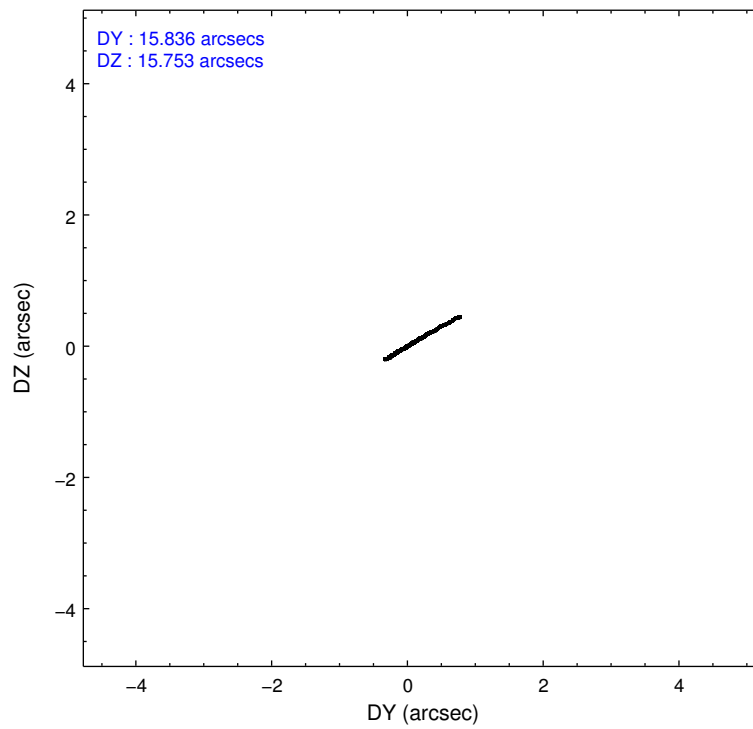
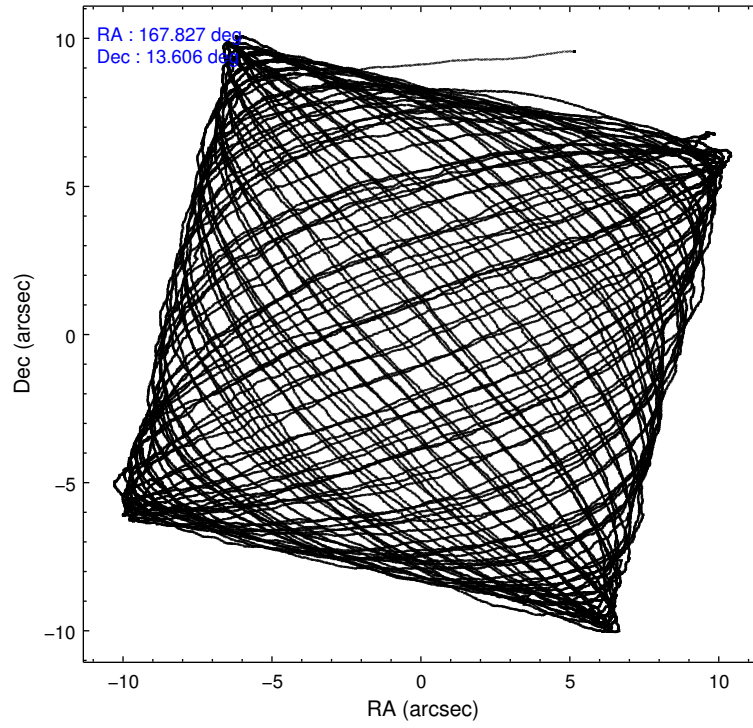
	ccd 7
level 1 events	279019
rejected events	157509
rejected %	56%

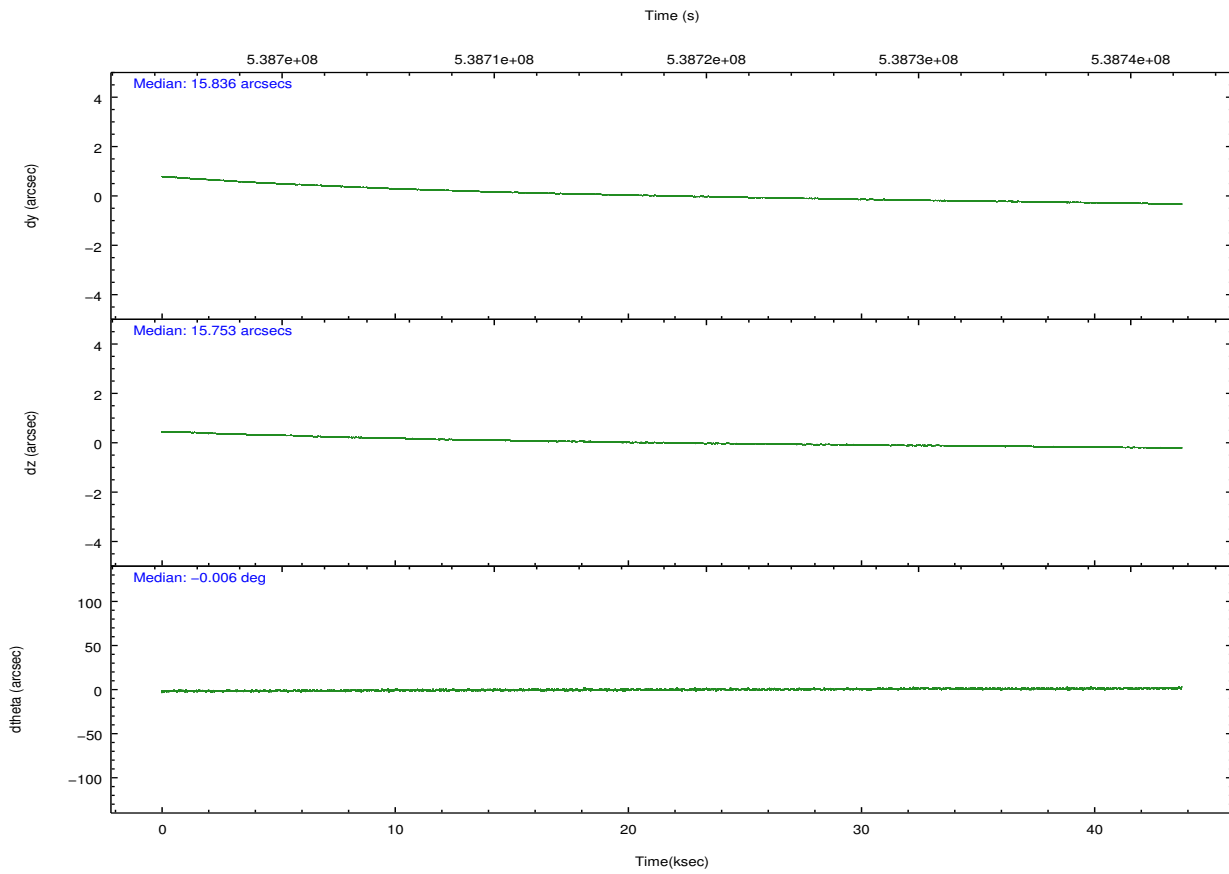
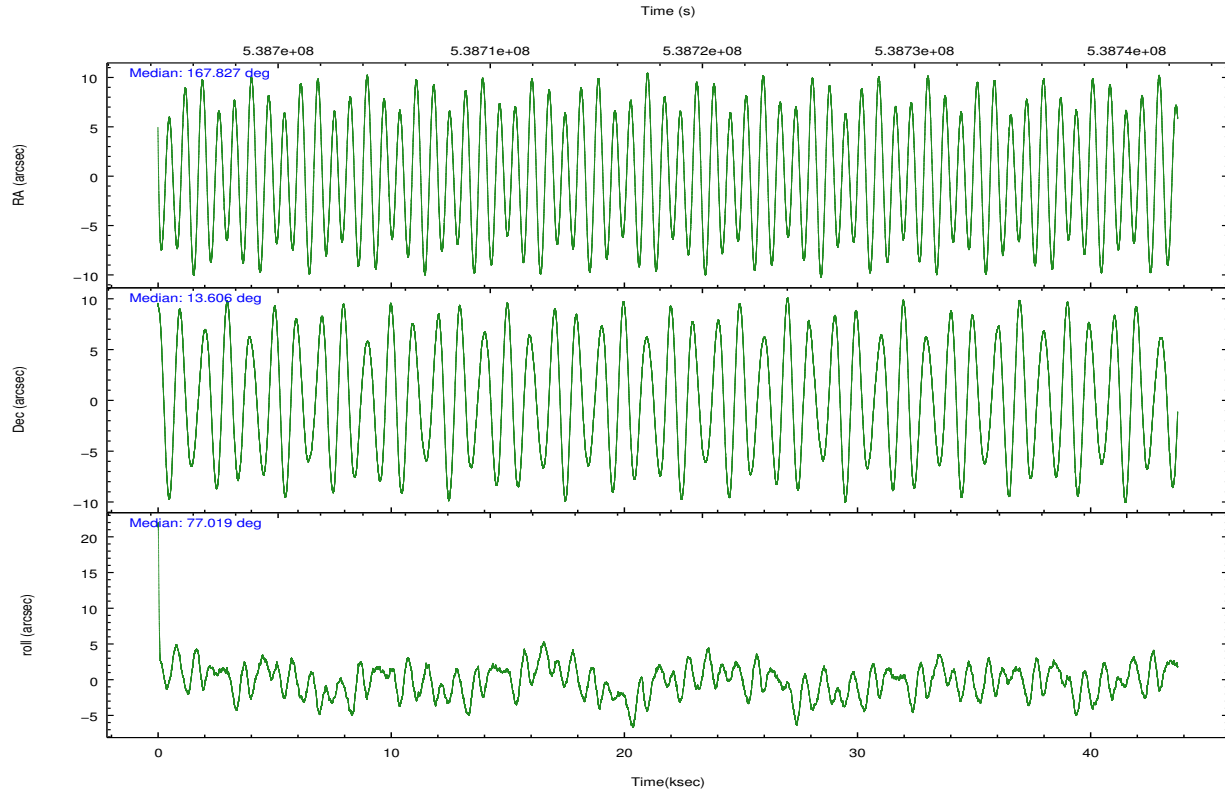
	ccd 7
grade 0 events	10677
	3%
grade 1 events	295
	0%
grade 2 events	25296
	9%
grade 3 events	9819
	3%
grade 4 events	9716
	3%
grade 5 events	27277
	9%
grade 6 events	66030
	23%
grade 7 events	129909
	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	167.835750	167.8271228939663	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.579827	13.60595785416162	Alternating exposures requested	N	N
[deg] Pointing Roll	76.871056	77.02971454509483	[s] Primary exposure time	0.000000	3
[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)	538696689.184000	538695197.48937			
Observation start date	2015-01-26T21:57:02	2015-01-26T21:33:17			
[s] Observation end time (MET)	538740244.184000	538740470.20441			
Observation end date	2015-01-27T10:02:57	2015-01-27T10:07:50			
Read mode	TIMED	TIMED			

2.3 Aspect



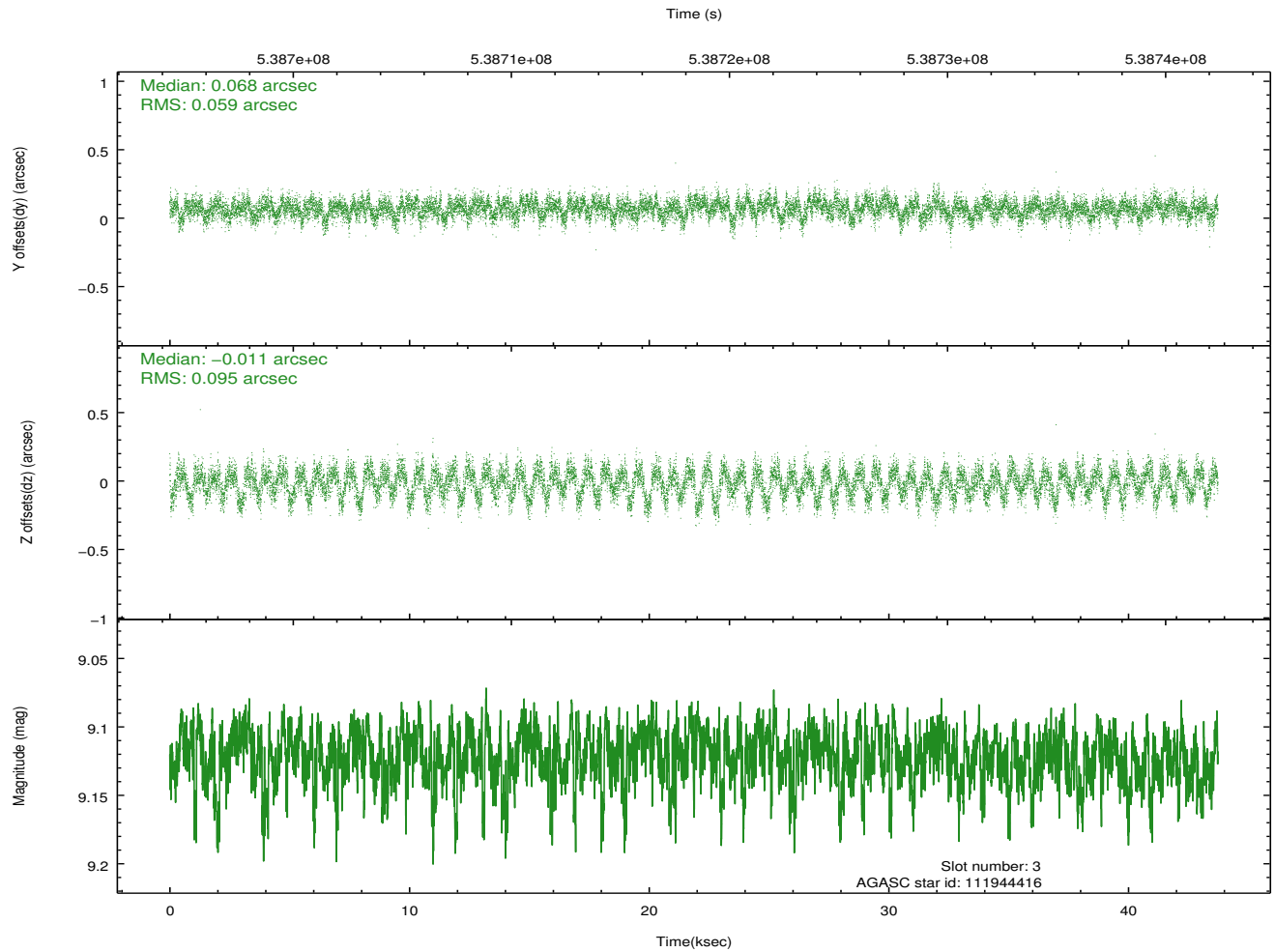
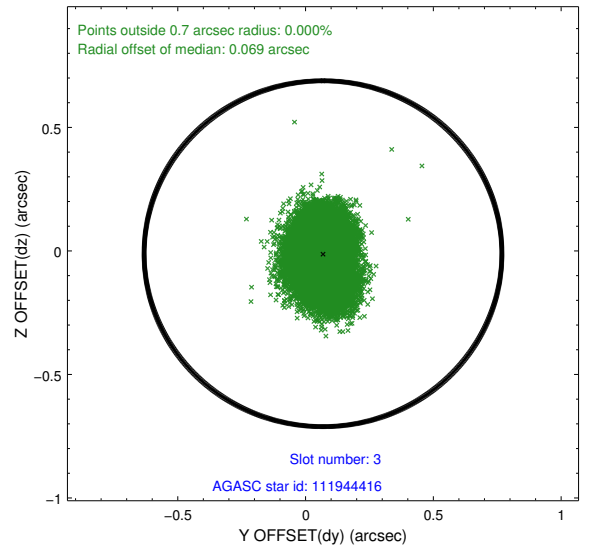
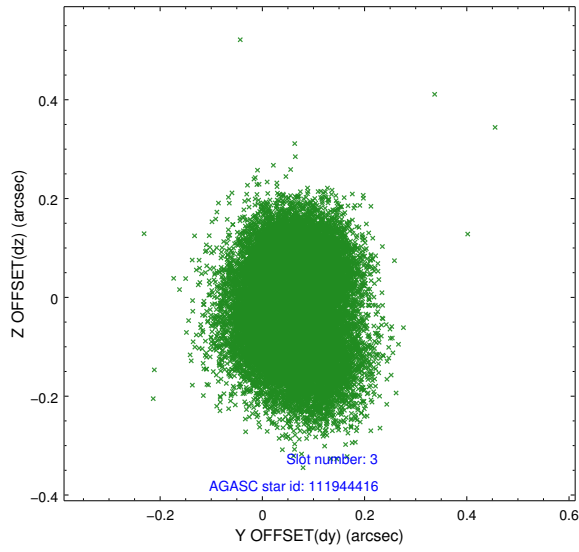


Slot Statistics

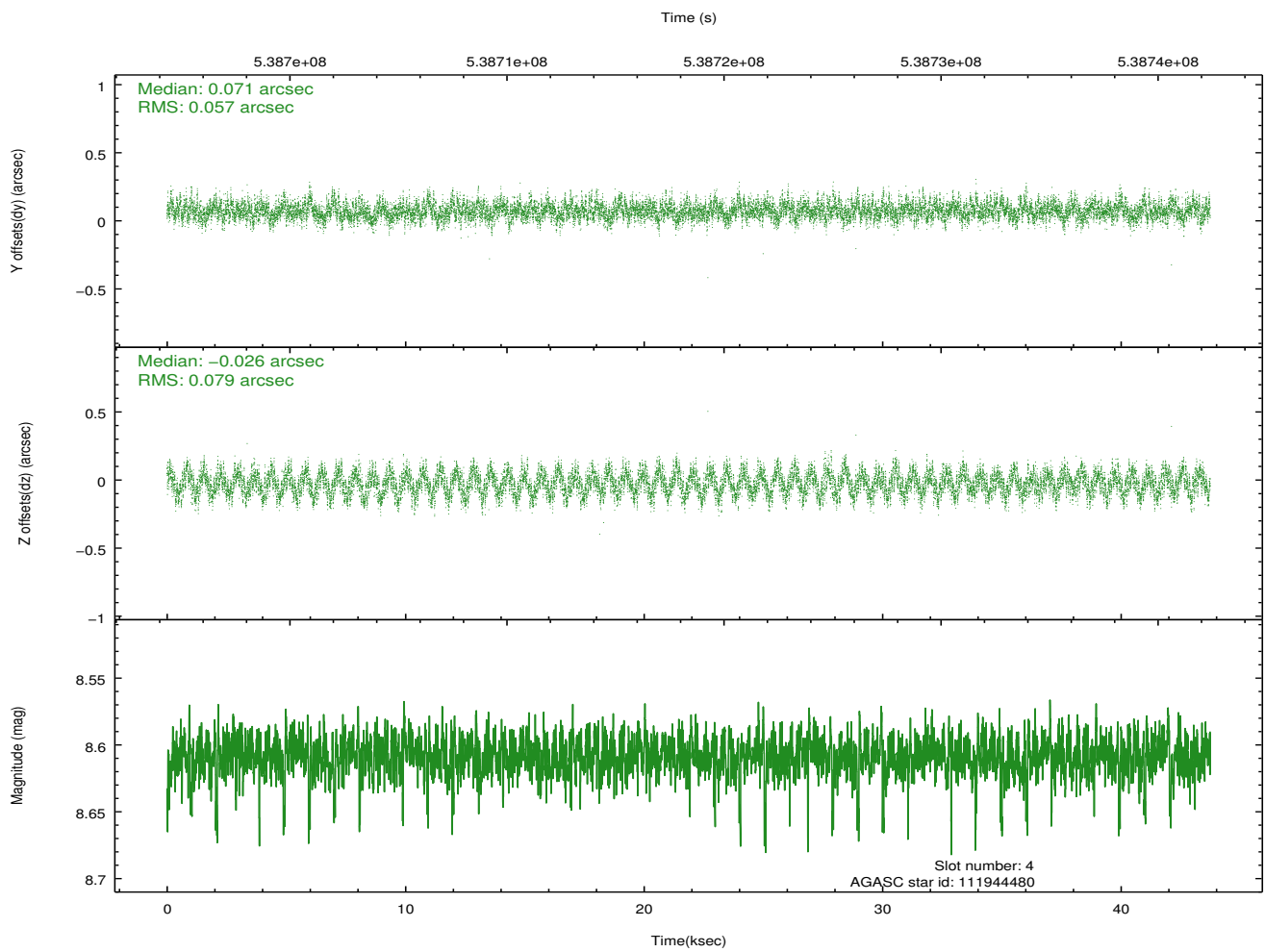
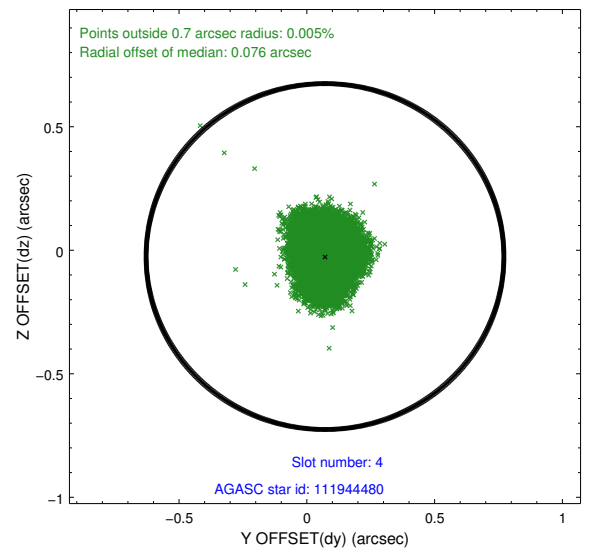
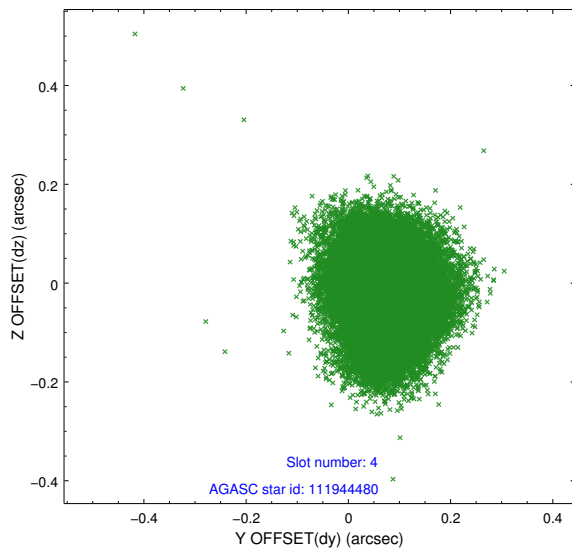
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.19	10668	-0.047	-0.107	0.017	0.025	0.000000	0.000000	927.12	-1732.86
1	FID		ACIS-S-4	7.20	10669	0.147	0.041	0.007	0.011	0.000000	0.000000	2144.68	171.47
2	FID		ACIS-S-6	7.34	10669	-0.124	0.076	0.018	0.028	0.000000	0.000000	392.93	808.83
3	GUIDE	used	111944416	9.12	21333	0.068	-0.011	0.119	0.191	168.281221	13.248301	-805.61	-1790.84
4	GUIDE	used	111944480	8.61	21330	0.071	-0.026	0.106	0.163	167.667829	13.119228	-1747.87	197.98
5	GUIDE	used	111944680	9.21	21313	-0.141	-0.612	0.128	0.207	167.248509	13.677561	-121.77	2080.61
6	GUIDE	used	111944848	7.85	21335	-0.036	0.227	0.096	0.152	168.075212	13.220782	-1067.25	-1110.34
7	GUIDE	used	111943664	9.22	21321	0.032	0.424	0.124	0.199	168.455104	13.231647	-724.41	-2397.12

2.4 Star Slots

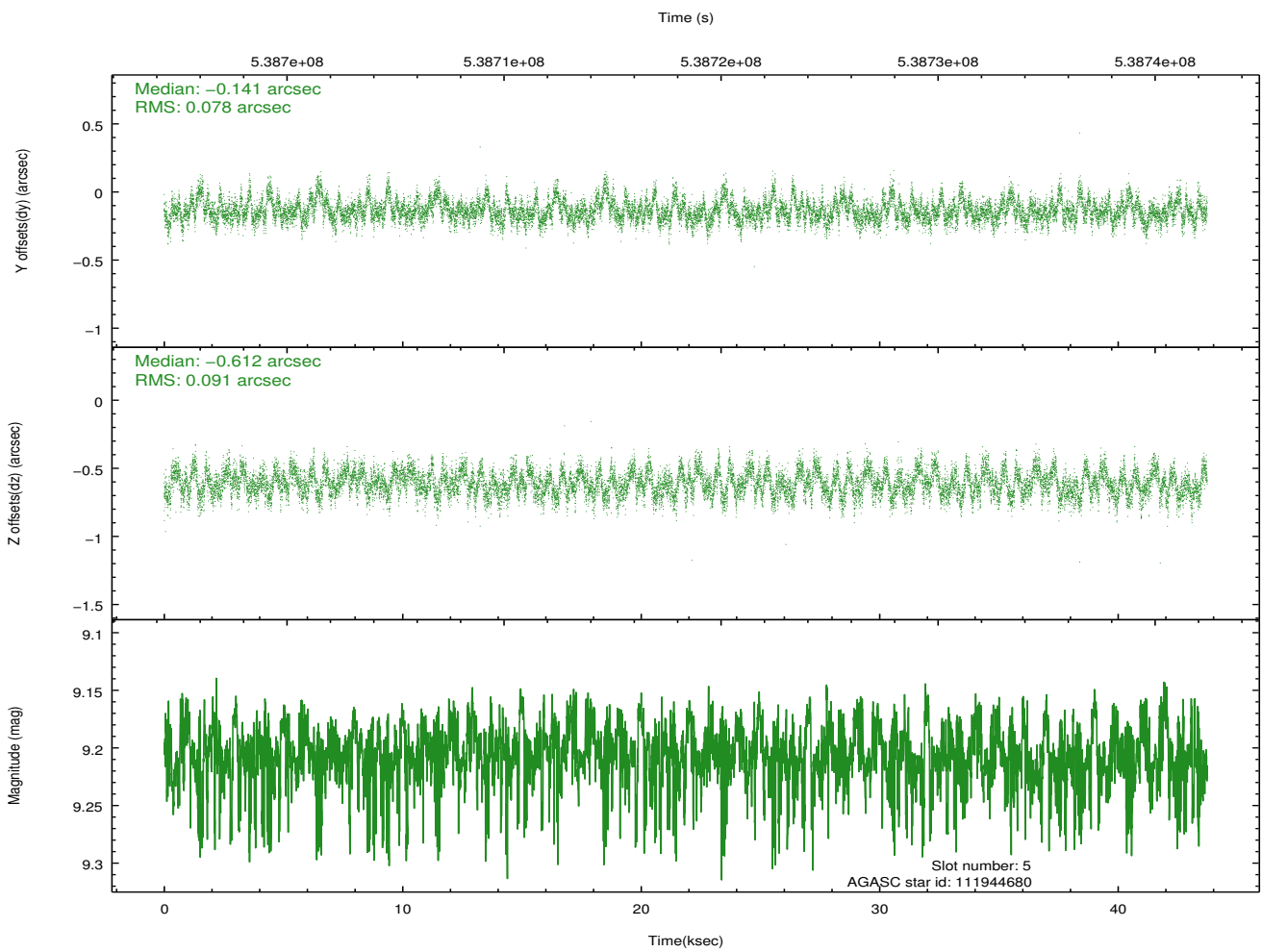
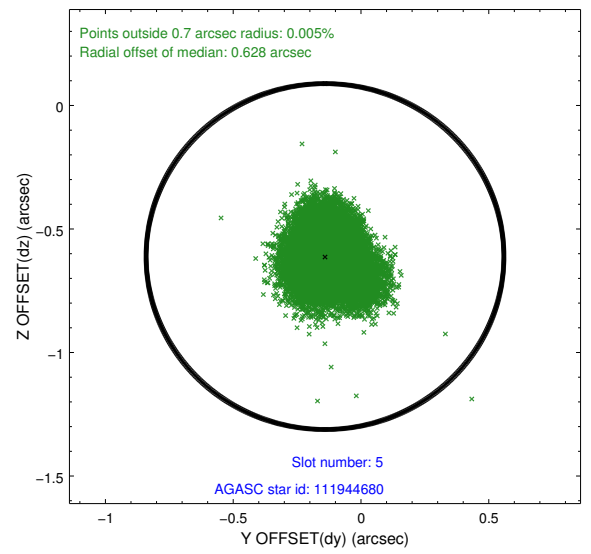
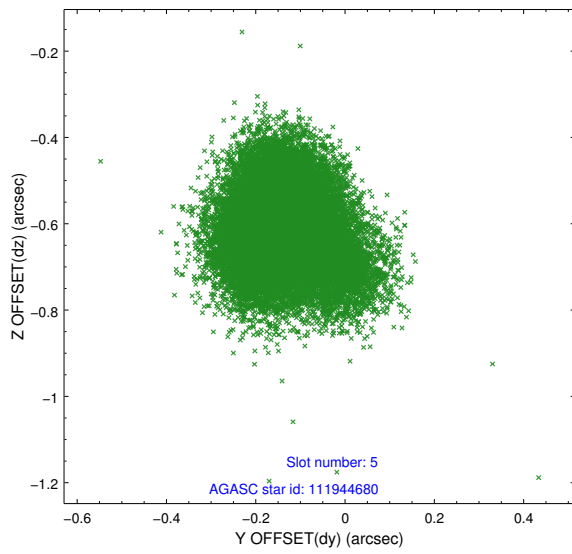
2.4.1 Slot 3



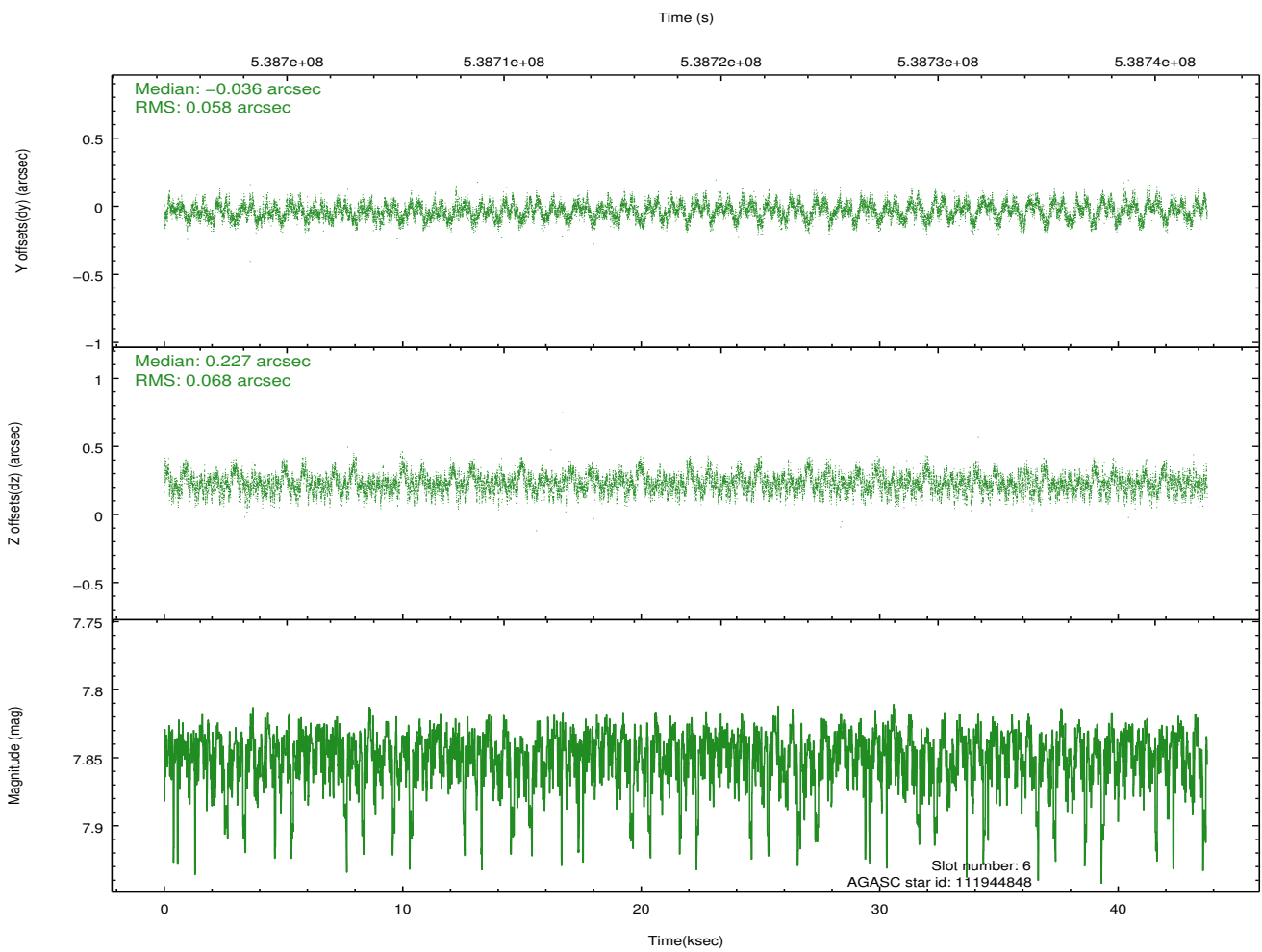
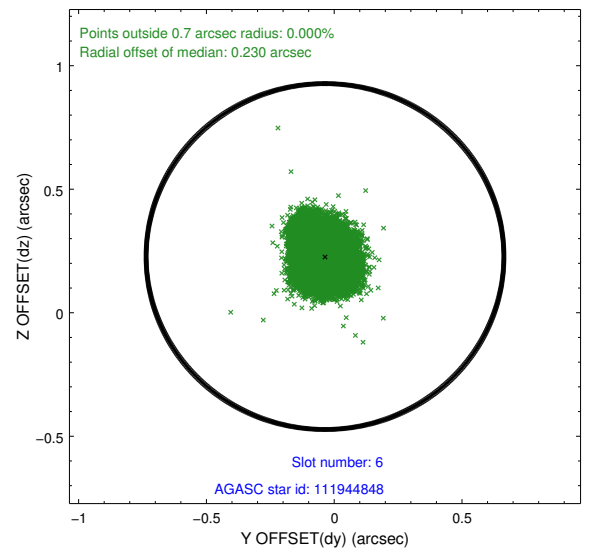
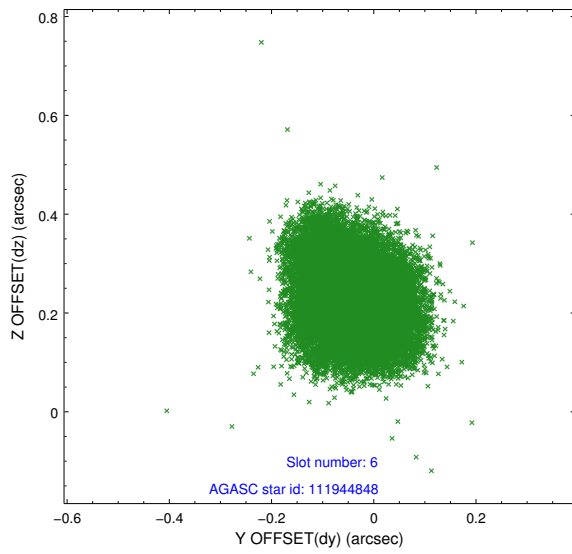
2.4.2 Slot 4



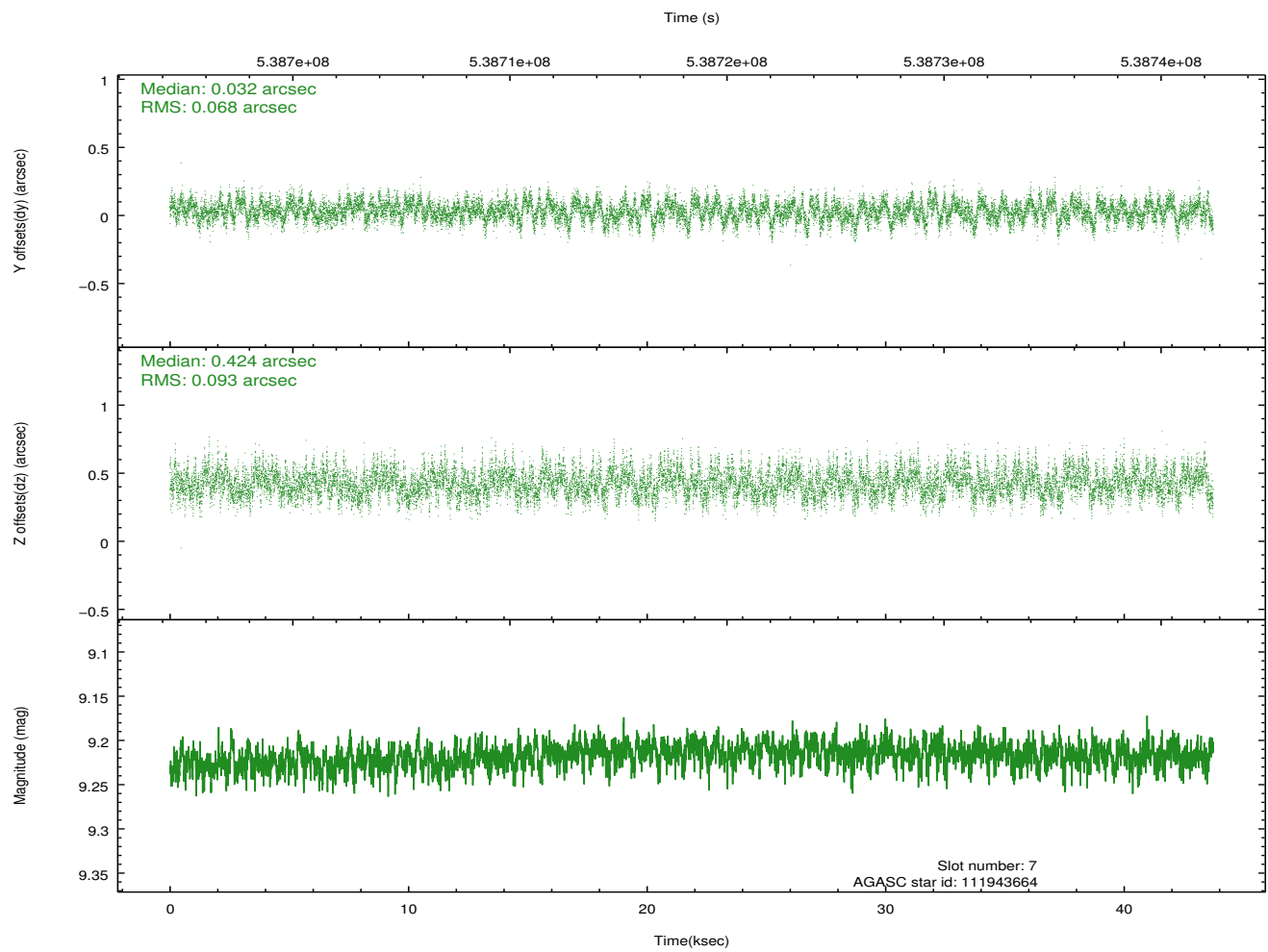
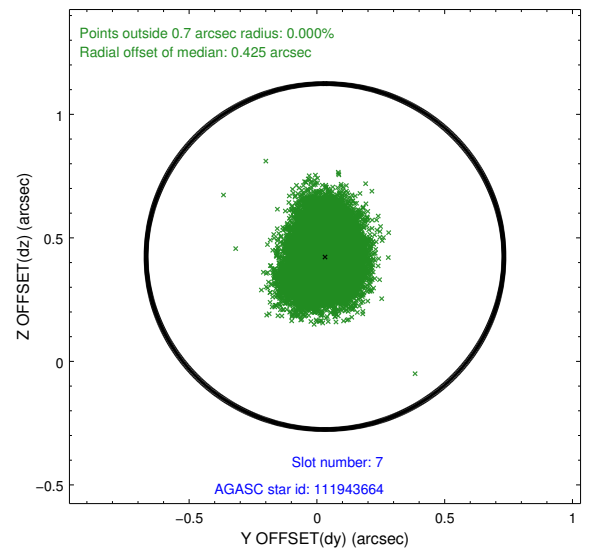
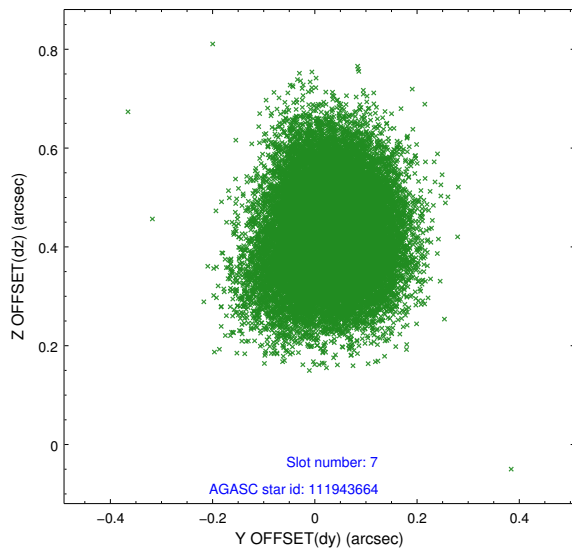
2.4.3 Slot 5



2.4.4 Slot 6

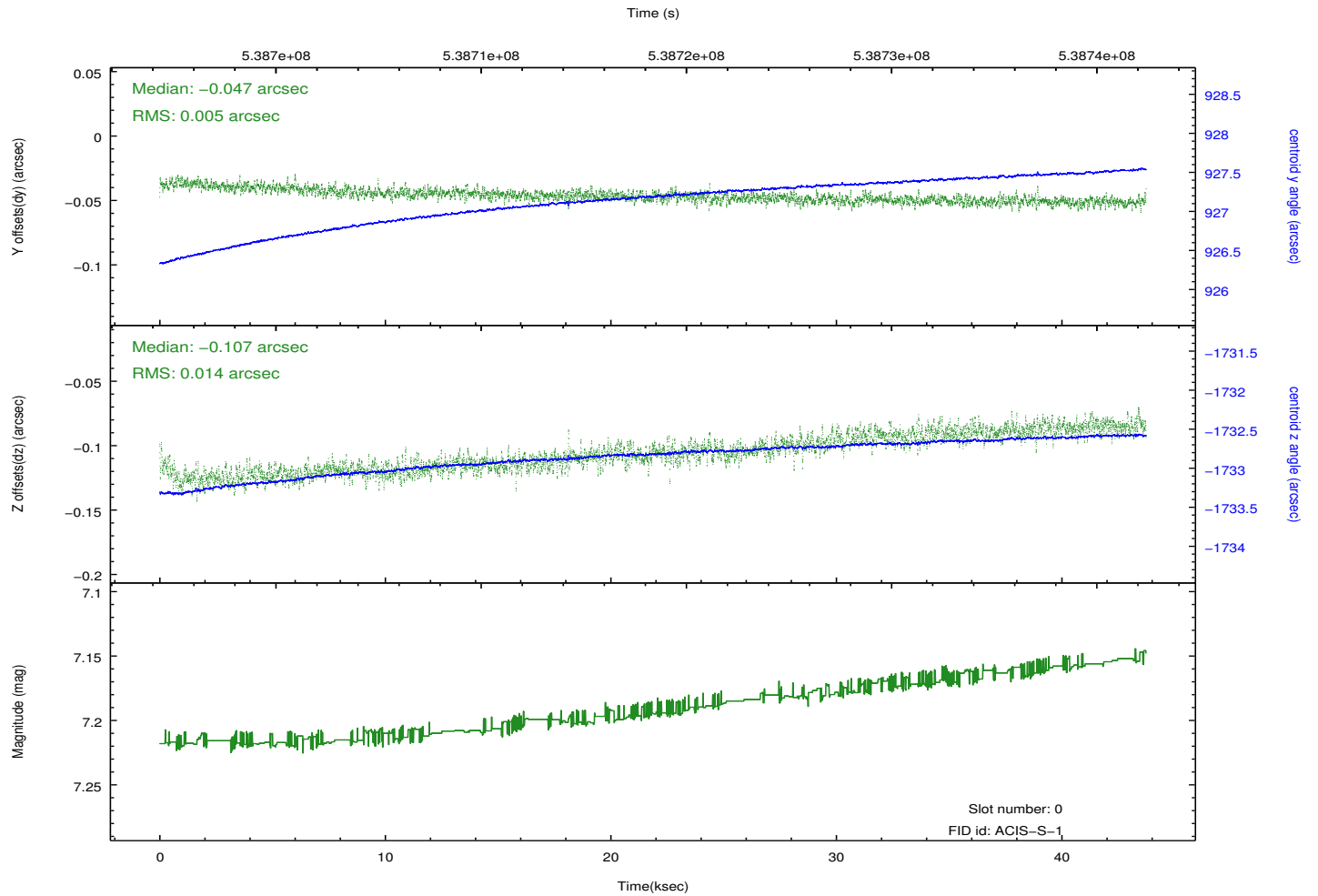
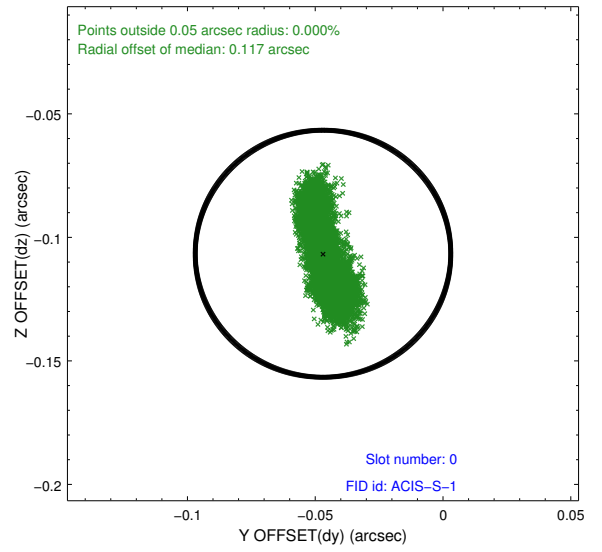
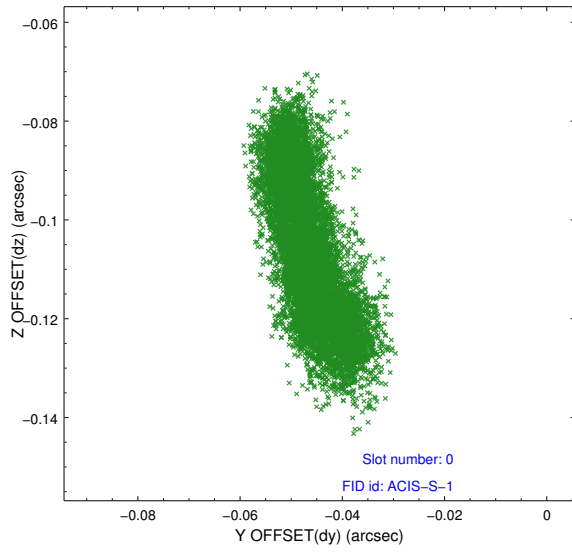


2.4.5 Slot 7

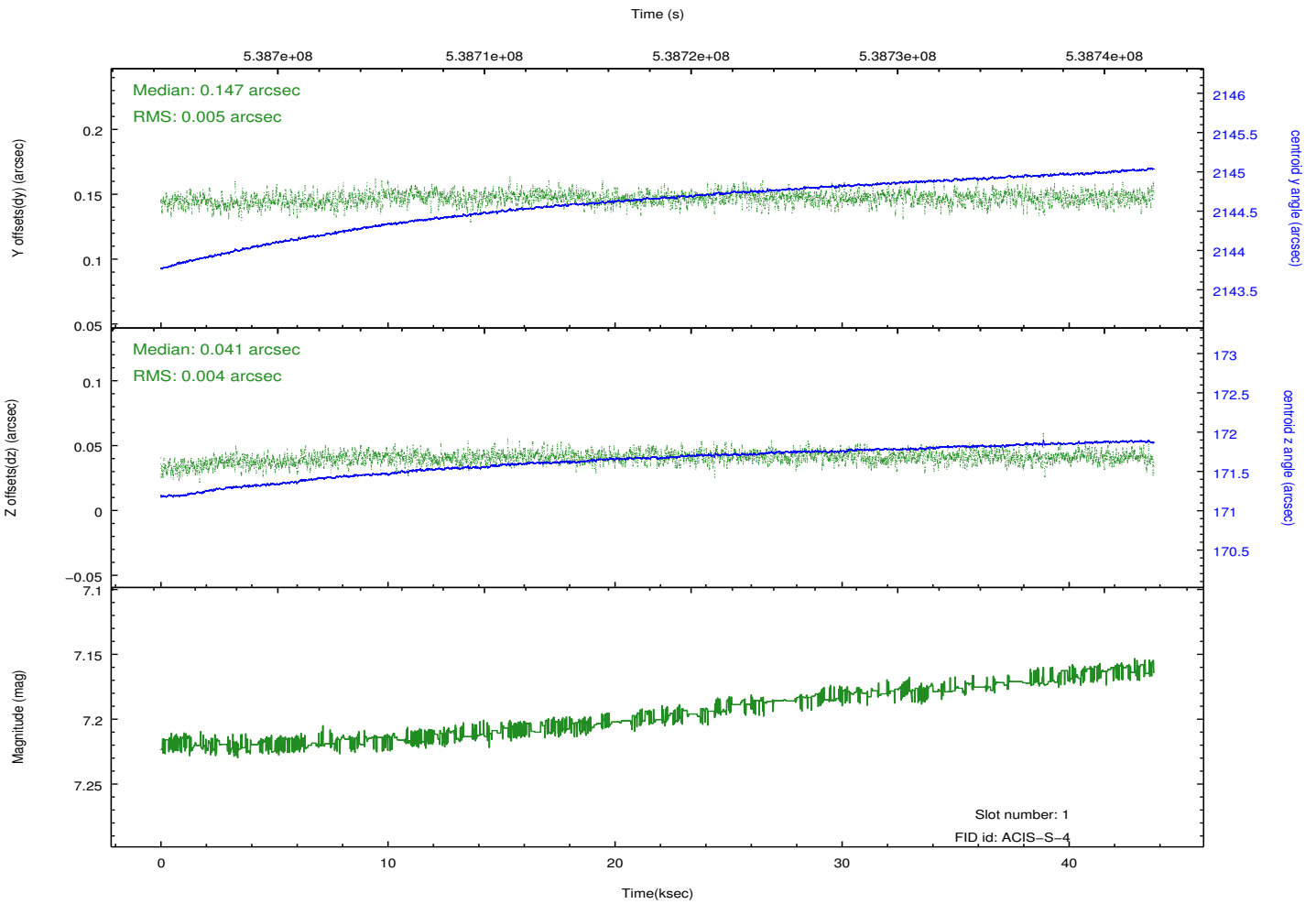
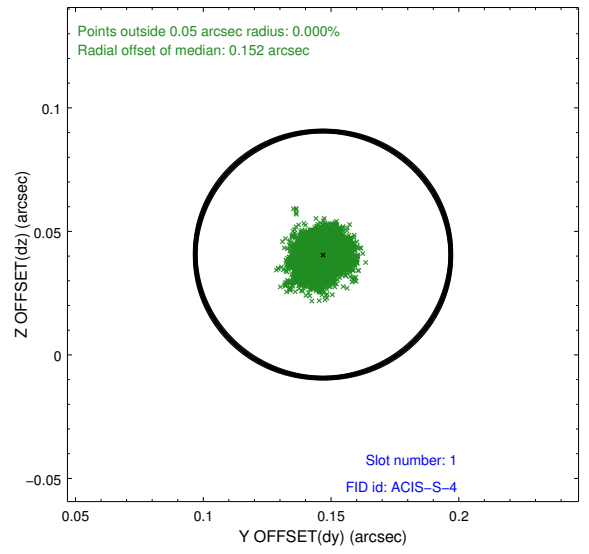
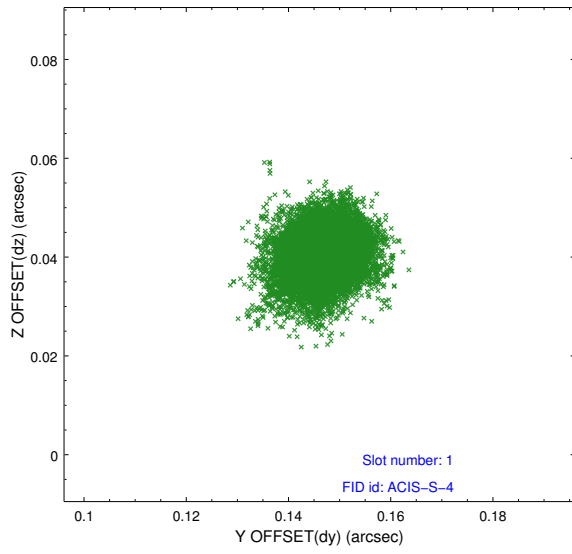


2.5 FID Slots

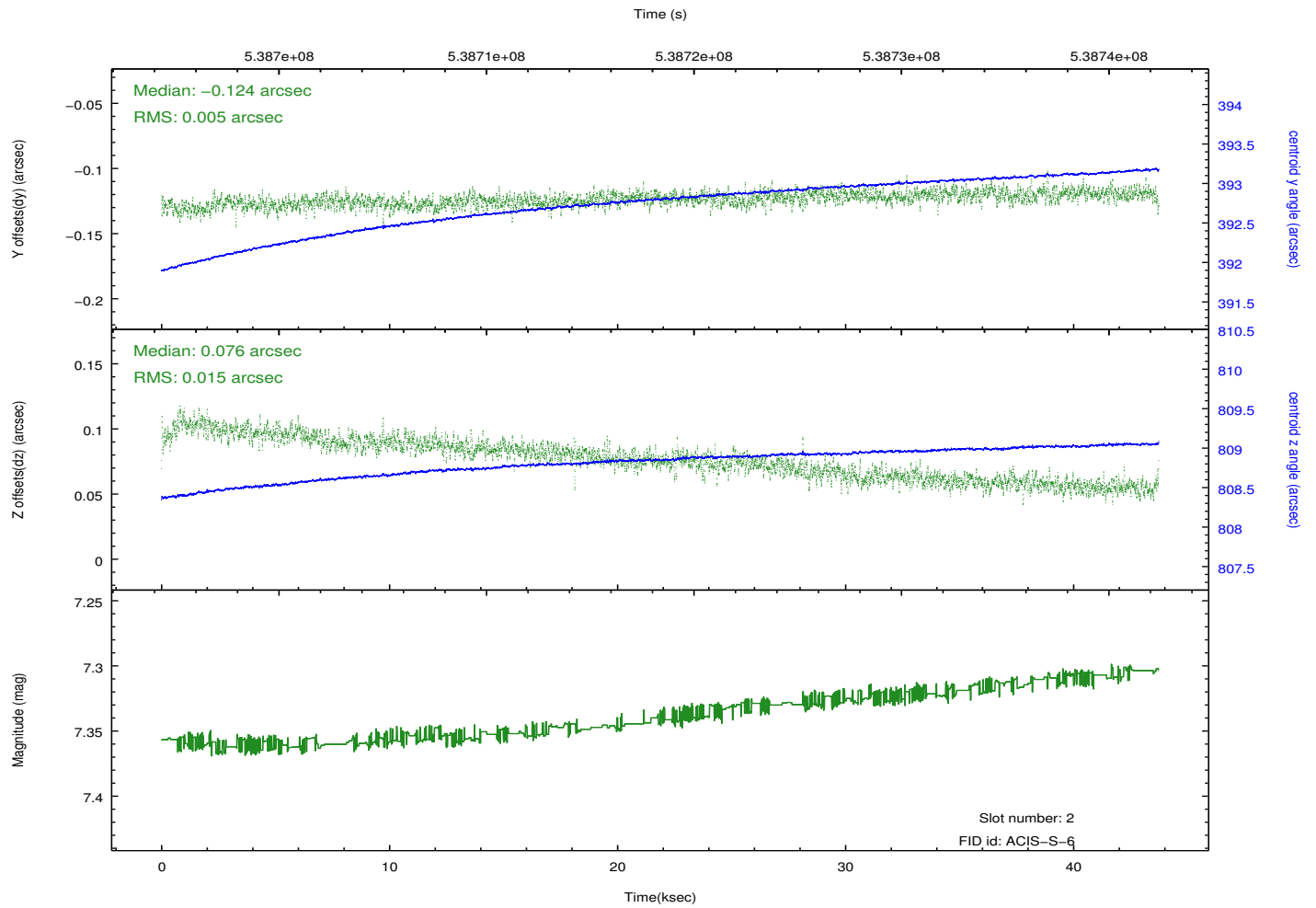
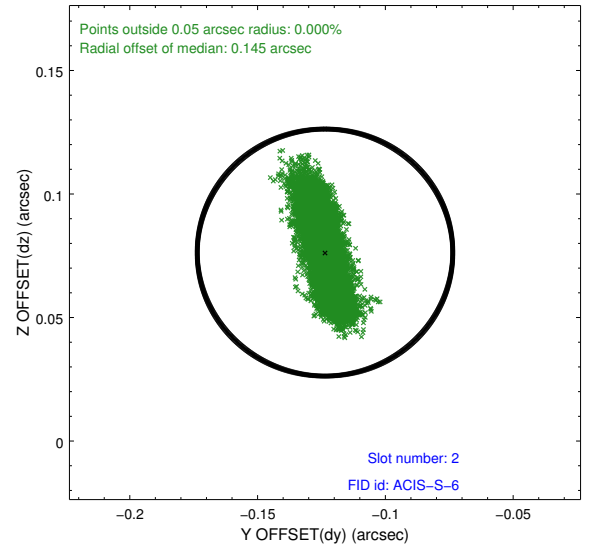
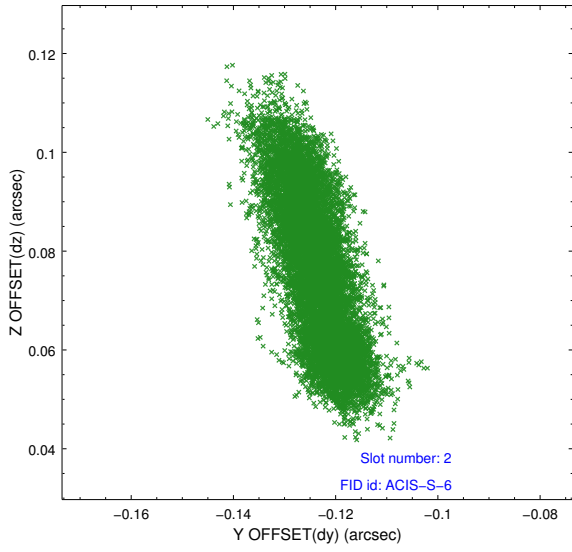
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.644

A.2 Comments