

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18292 - L2 Version 1
Chandra X-Ray Center

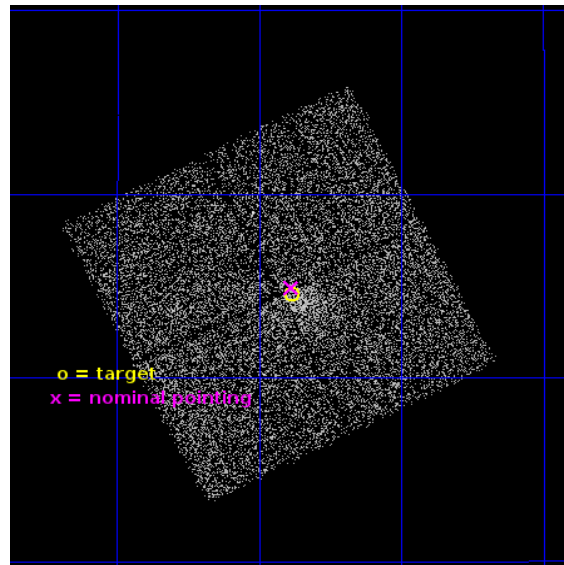
L2 Processing Date : Dec 7 2015

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

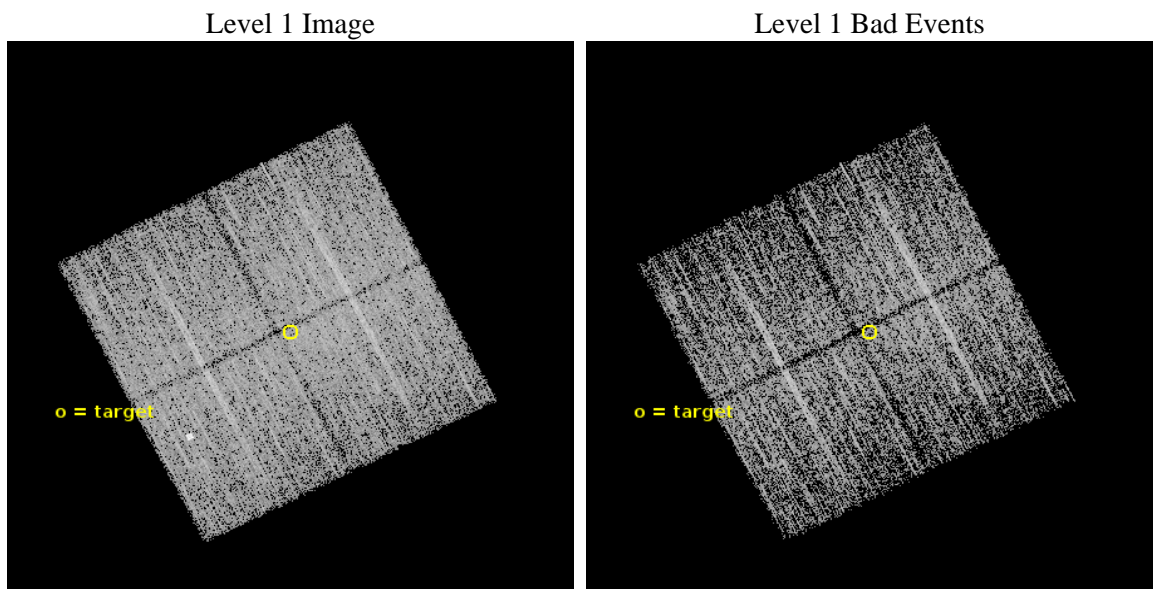
seq_num	801610	Sequence number
obs_id	18292	Observation id
title	Building a Cheap and Cheerful SZ-selected sample of galaxy clusters with the Planck Catalogue.	Proposal title
observer	Dr Mariachiara Rossetti	Principal investigator
object	PSZ2 G209.79+10.23	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	110.59625	Observer's specified target RA [deg]
dec_targ	7.408611	Observer's specified target Dec [deg]
ra_nom	110.59671982655	Nominal RA [deg]
dec_nom	7.4149051466511	Nominal Dec [deg]
roll_nom	63.100503988264	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10087.400077701	Sum of GTIs [s]
livetime	9955.6007694496	Livetime [s]
ontime0	10087.400077701	Sum of GTIs [s]
ontime1	10087.400077701	Sum of GTIs [s]
ontime2	10084.25899744	Sum of GTIs [s]
ontime3	10087.400077701	Sum of GTIs [s]
l2events	21722	Number of level 2 events



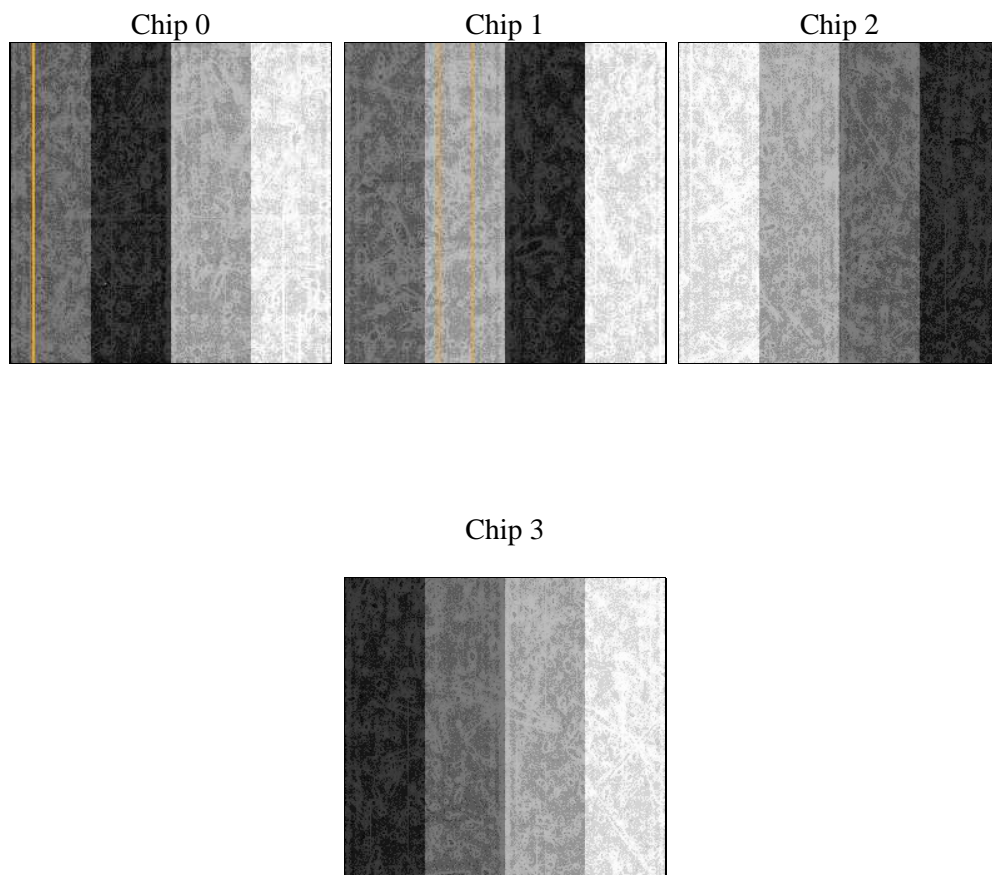
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	10087.400077701	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	10087.400077701	Sum of GTIs [s]
date	2015-12-07T20:38:50	Date and time of file creation	ontime1	10087.400077701	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10084.25899744	Sum of GTIs [s]
			ontime3	10087.400077701	Sum of GTIs [s]
			l1events	215901	Number of level 1 events

2.1.4 Events

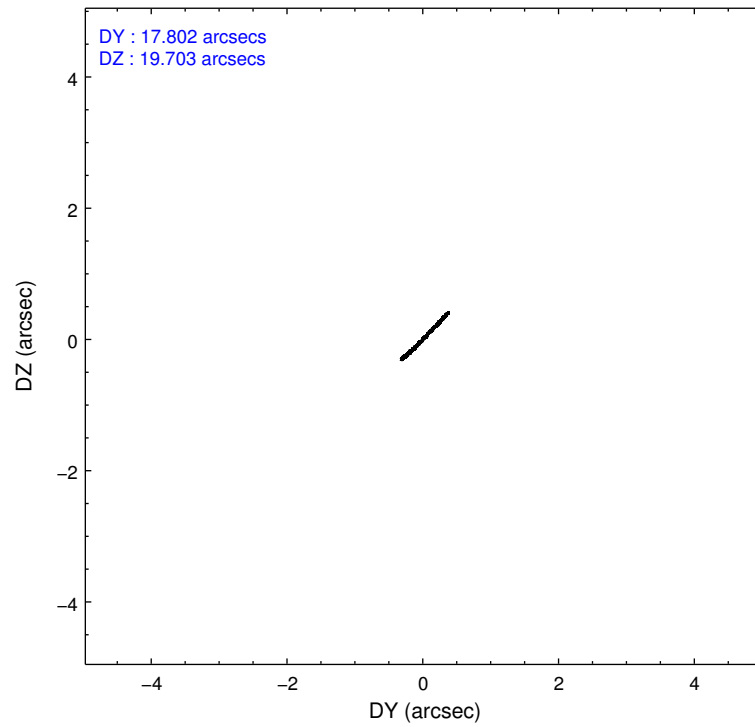
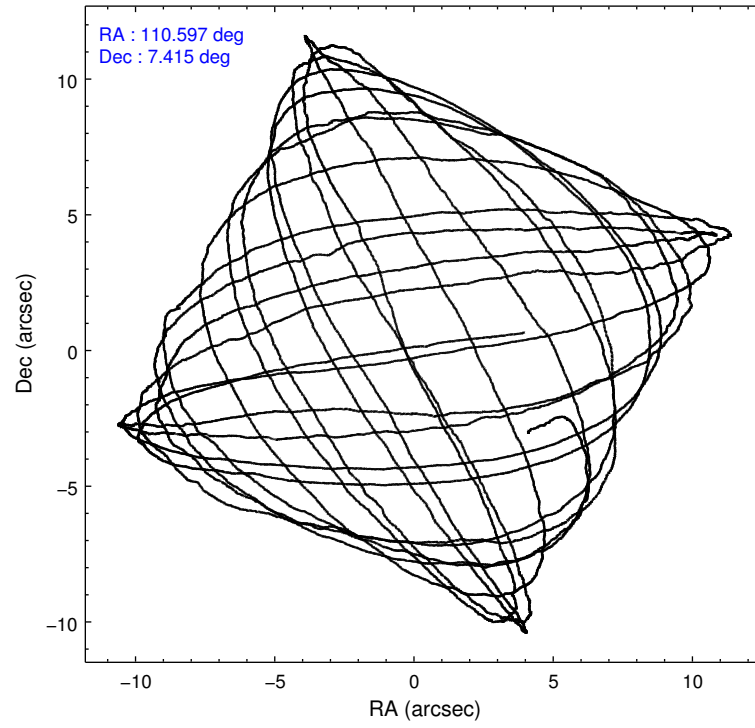
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	51508	54913	55643	53837
rejected events	45191	47063	49466	47448
rejected %	87%	85%	88%	88%

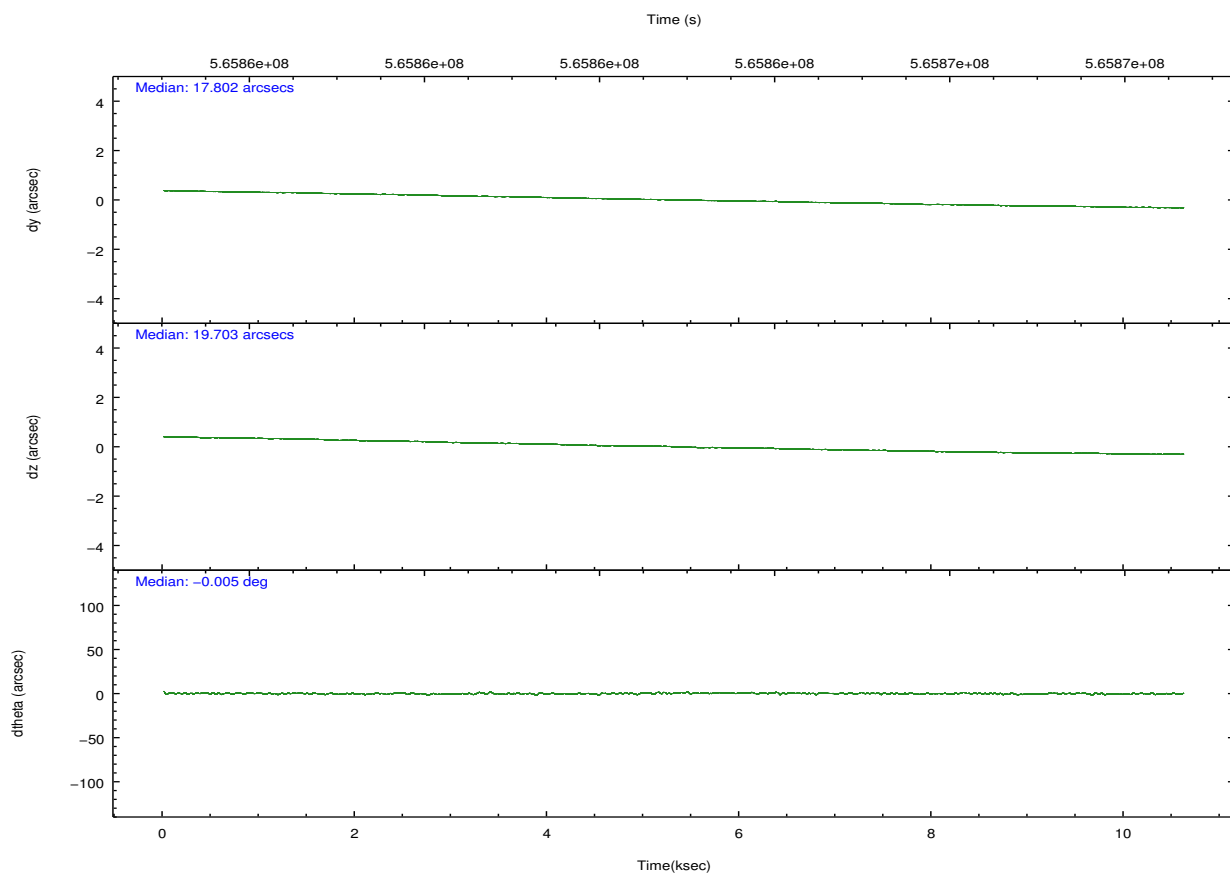
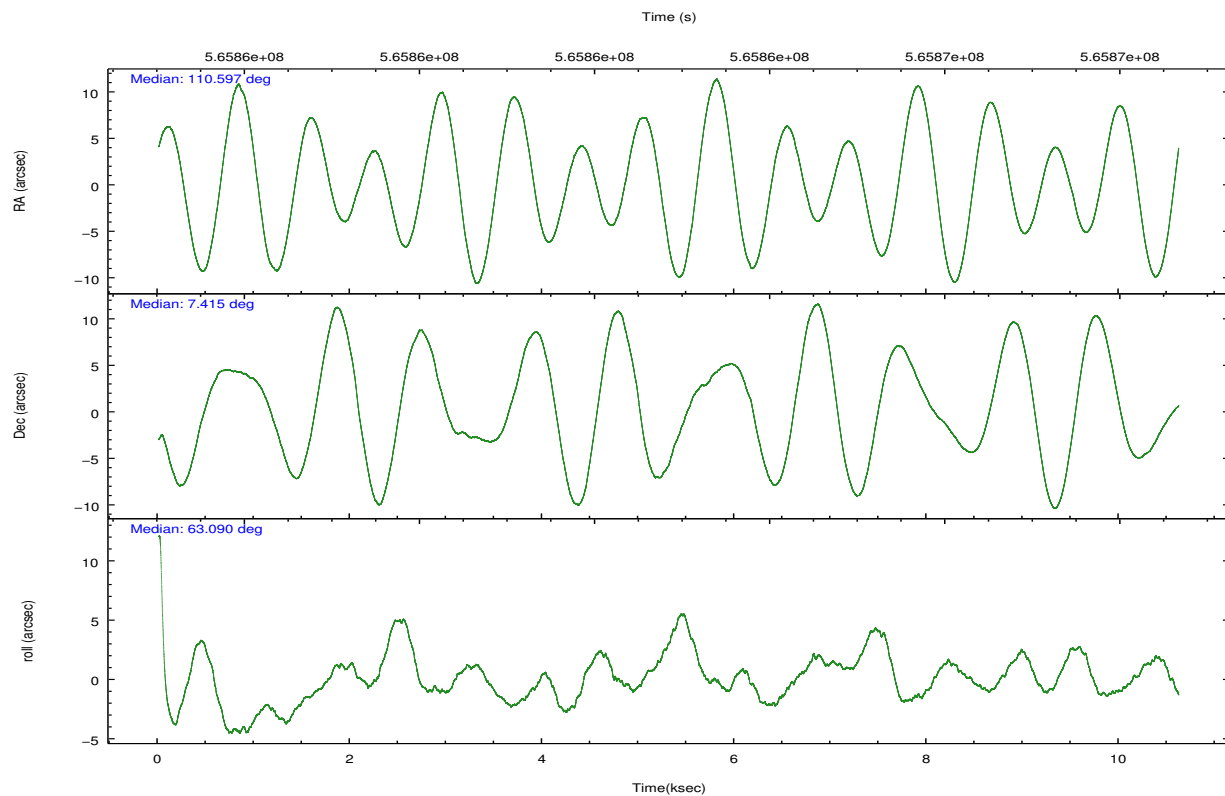
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2096	3417	2268	2520
	4%	6%	4%	4%
grade 1 events	28	37	32	32
	0%	0%	0%	0%
grade 2 events	1575	1596	1408	1333
	3%	2%	2%	2%
grade 3 events	654	662	658	620
	1%	1%	1%	1%
grade 4 events	609	665	611	646
	1%	1%	1%	1%
grade 5 events	2529	2669	2250	2791
	4%	4%	4%	5%
grade 6 events	1386	1516	1234	1272
	2%	2%	2%	2%
grade 7 events	42631	44351	47182	44623
	82%	80%	84%	82%

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	110.598373	110.5967198265544	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.387401	7.41490514665113	Alternating exposures requested	N	N
[deg] Pointing Roll	62.891580	63.10050398826399	[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)	565858167.184000	565857071.99368			
Observation start date	2015-12-07T06:48:19	2015-12-07T06:31:11			
[s] Observation end time (MET)	565868167.184000	565869496.53188			
Observation end date	2015-12-07T09:34:59	2015-12-07T09:58:16			
Read mode	TIMED	TIMED			

2.3 Aspect



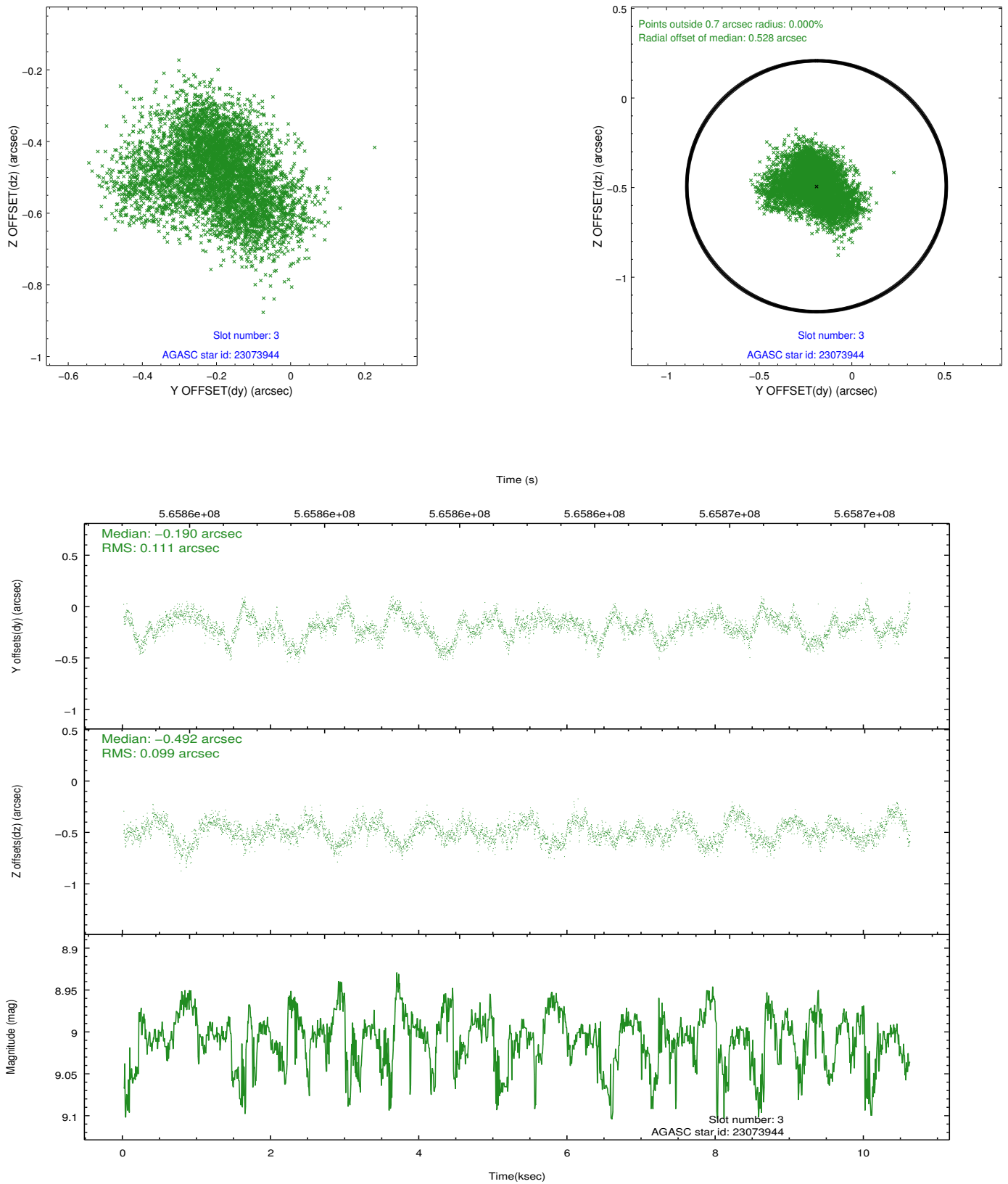


Slot Statistics

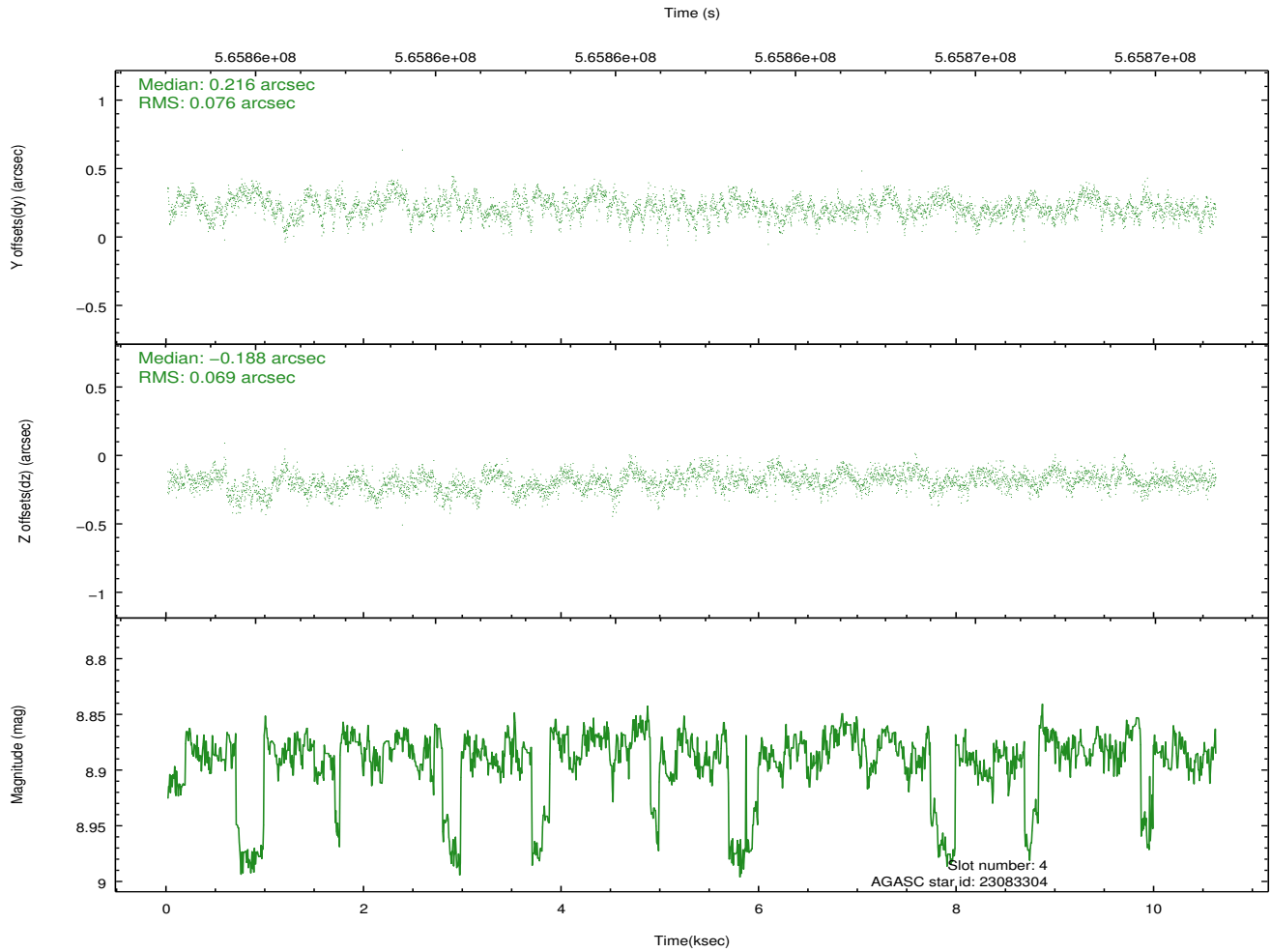
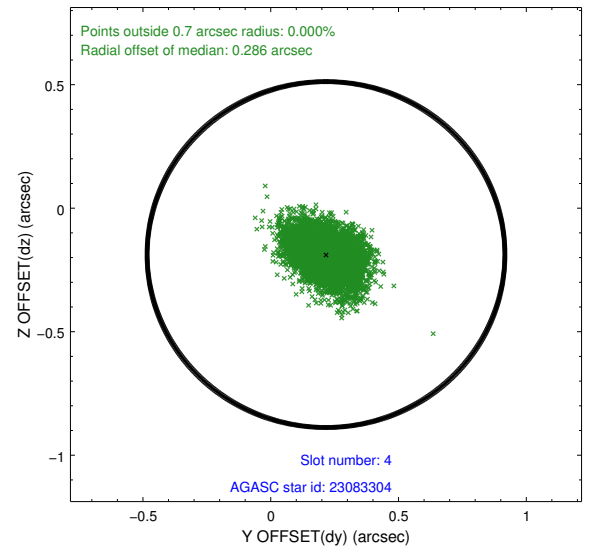
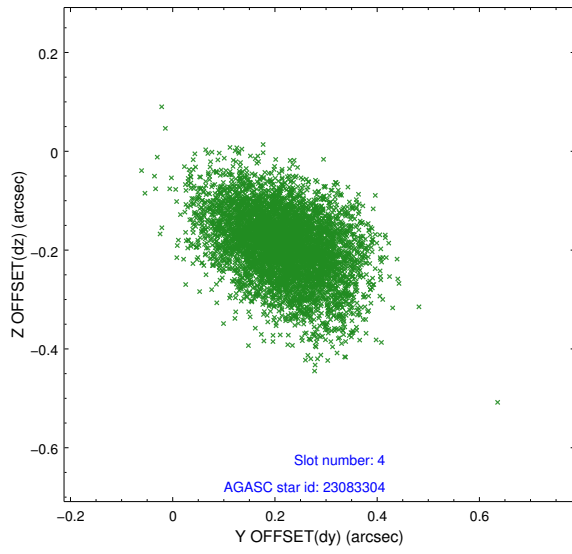
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	2589	-0.062	-0.047	0.013	0.023	0.000000	0.000000	921.55	-843.44
1	FID		ACIS-I-4	7.19	2589	0.419	0.086	0.011	0.018	0.000000	0.000000	2142.25	1056.31
2	FID		ACIS-I-5	7.25	2588	-0.455	0.032	0.008	0.013	0.000000	0.000000	-1826.31	1054.46
3	GUIDE	used	23073944	9.01	5172	-0.190	-0.492	0.161	0.257	110.013567	7.375407	-988.80	1839.15
4	GUIDE	used	23083304	8.89	5174	0.216	-0.188	0.108	0.182	109.855939	7.158074	-1941.39	1985.62
5	GUIDE	used	23201512	8.78	5172	-0.166	0.134	0.150	0.247	111.080628	7.279485	439.89	-1708.61
6	GUIDE	used	23220184	7.78	5178	0.151	0.526	0.078	0.131	110.914593	6.680938	-1747.36	-2165.04
7	GUIDE	used	100156248	7.93	5176	0.002	0.023	0.105	0.179	111.412366	7.560847	1882.43	-2299.82

2.4 Star Slots

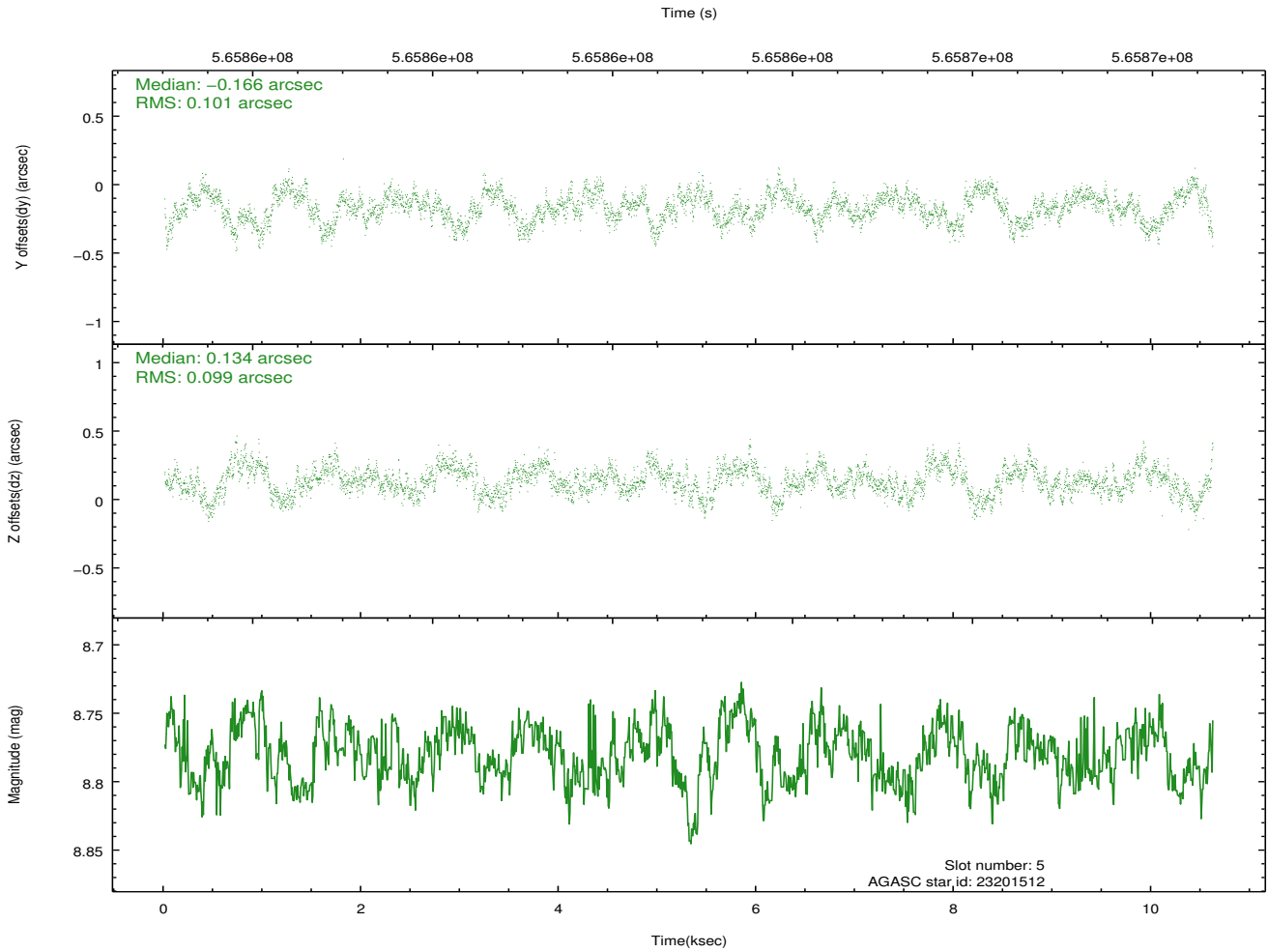
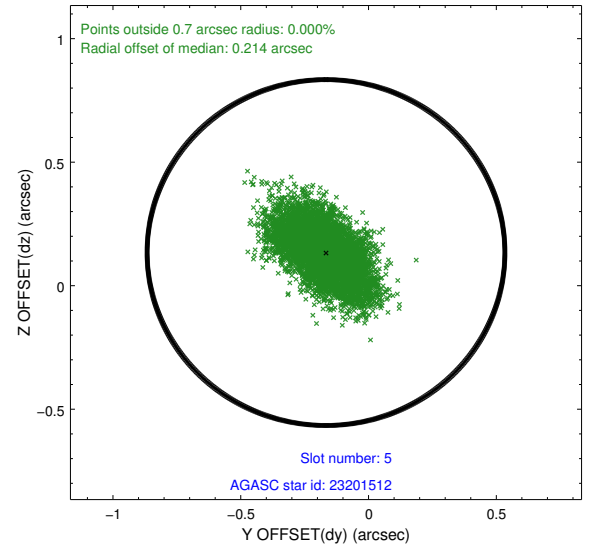
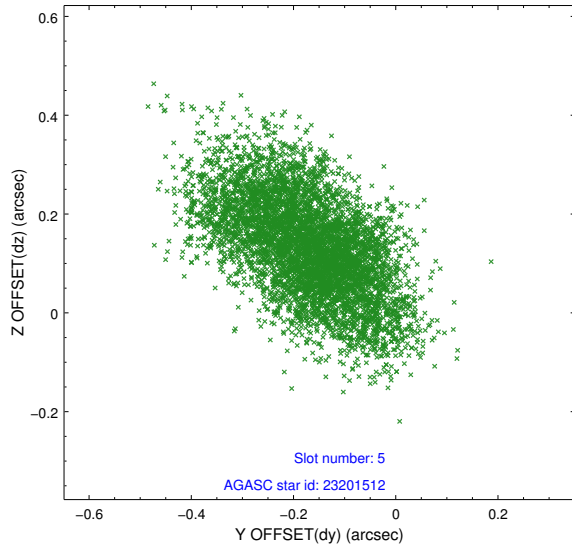
2.4.1 Slot 3



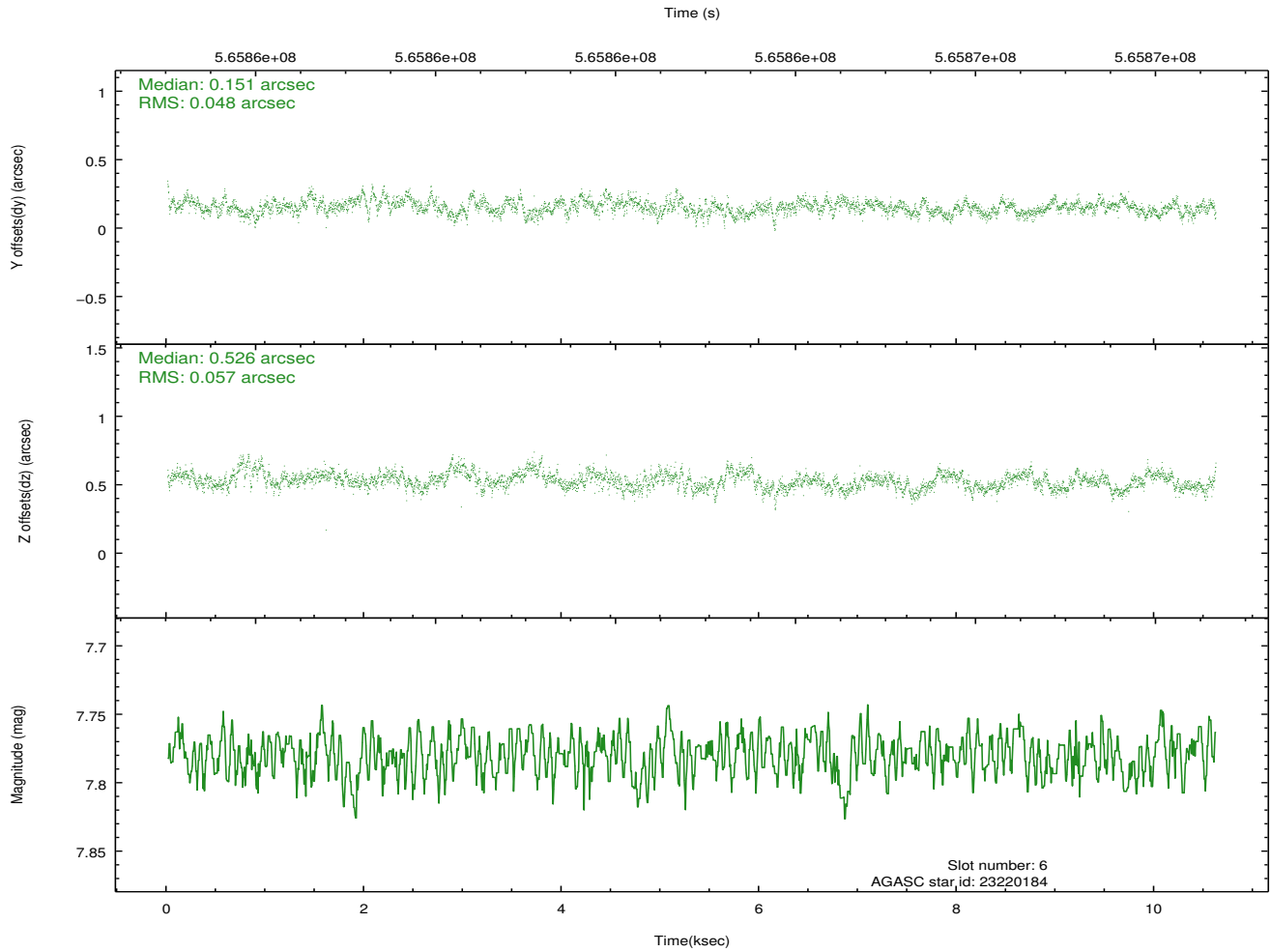
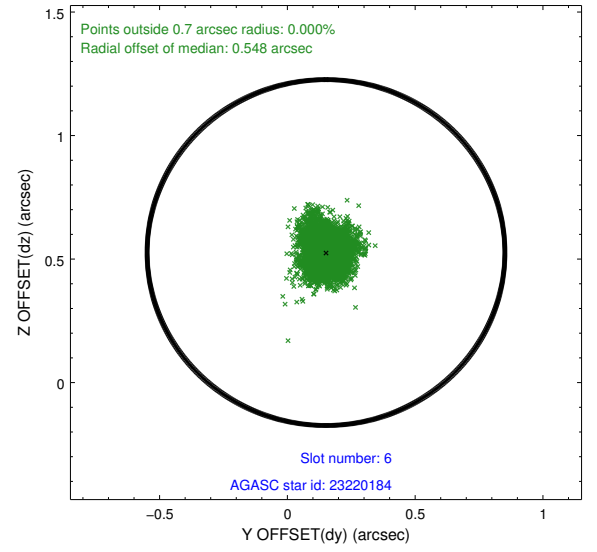
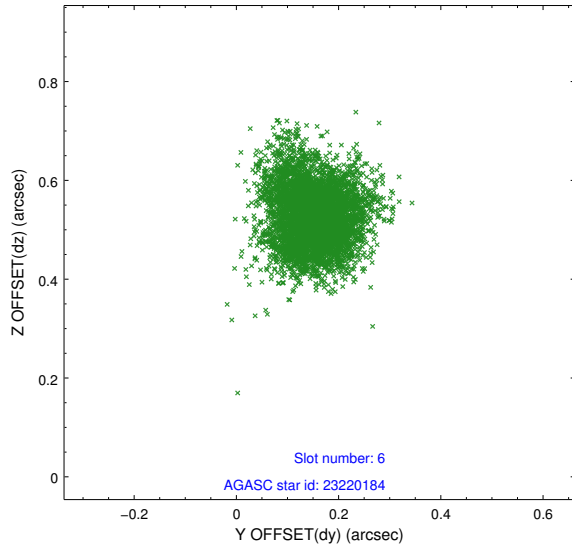
2.4.2 Slot 4



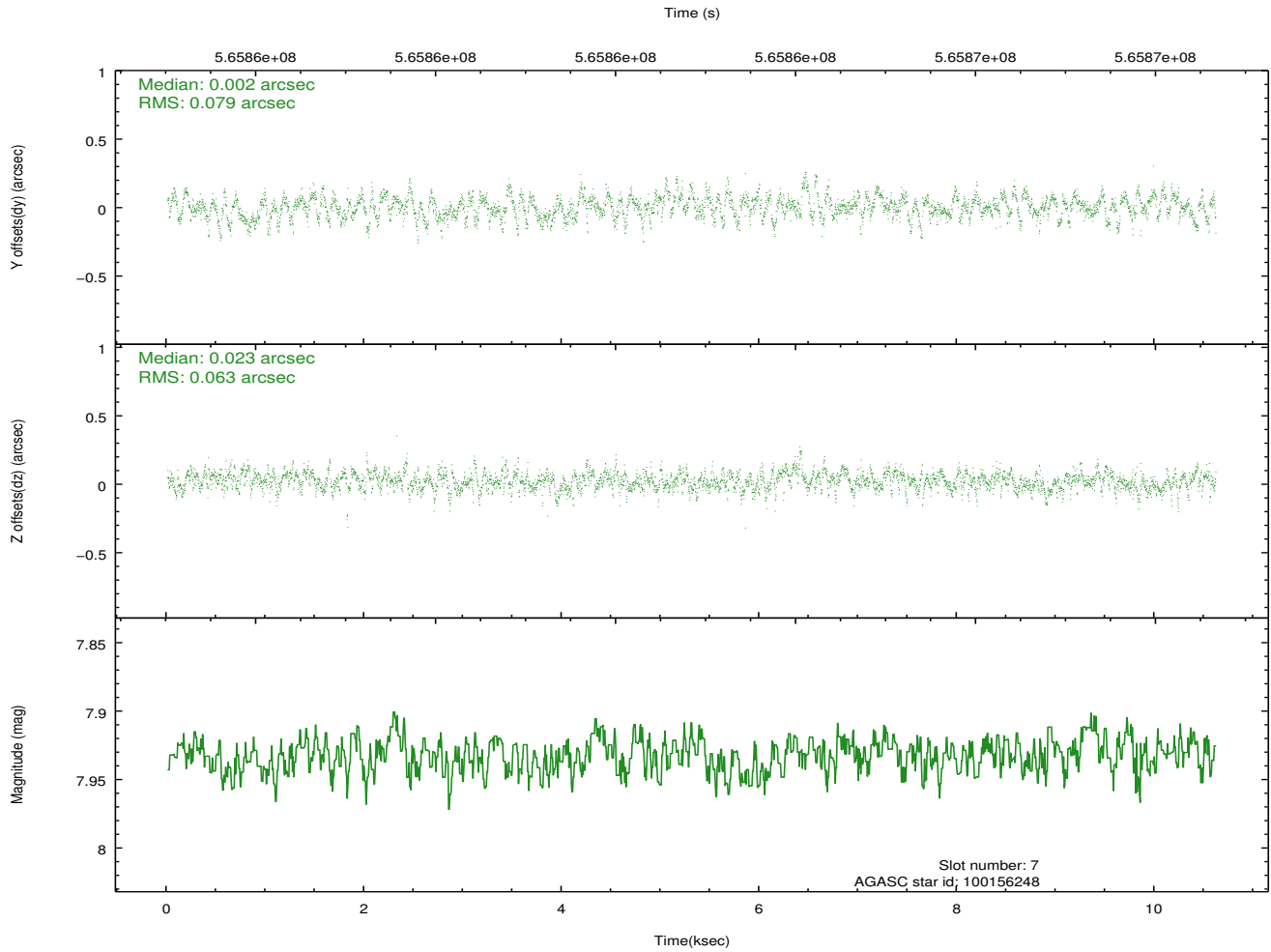
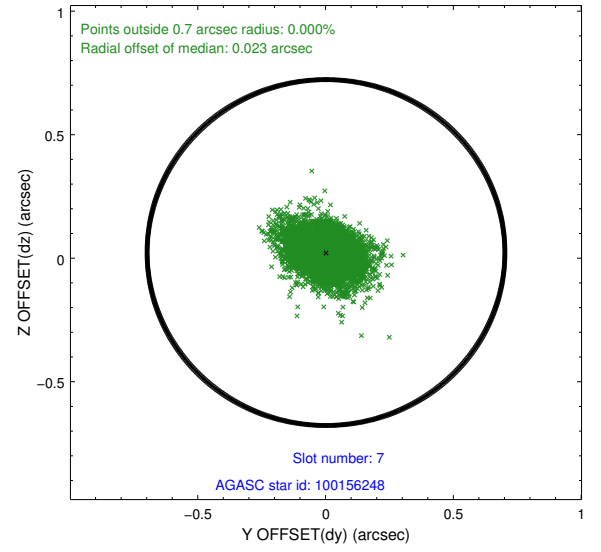
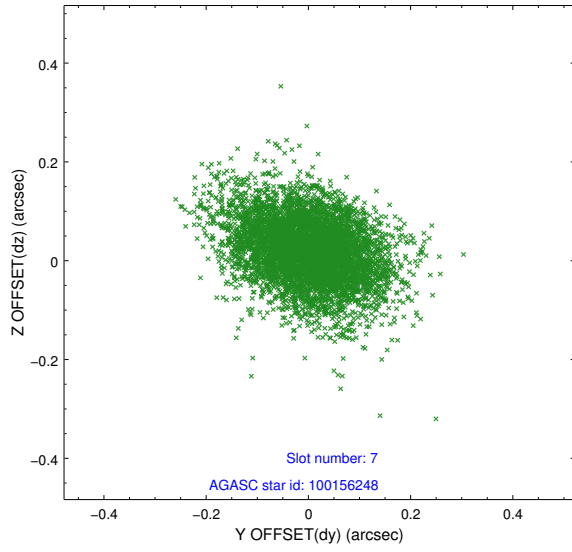
2.4.3 Slot 5



2.4.4 Slot 6

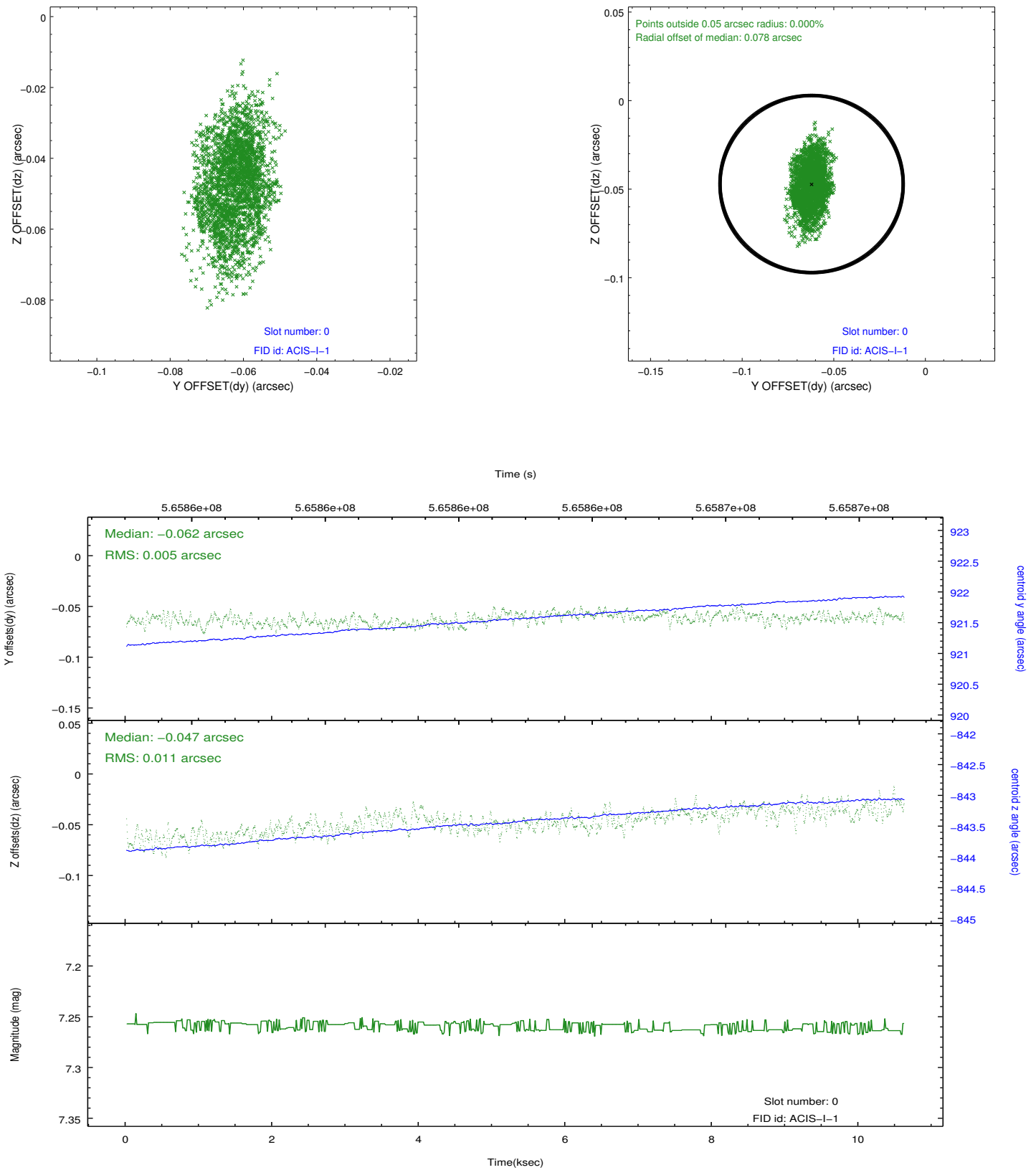


2.4.5 Slot 7

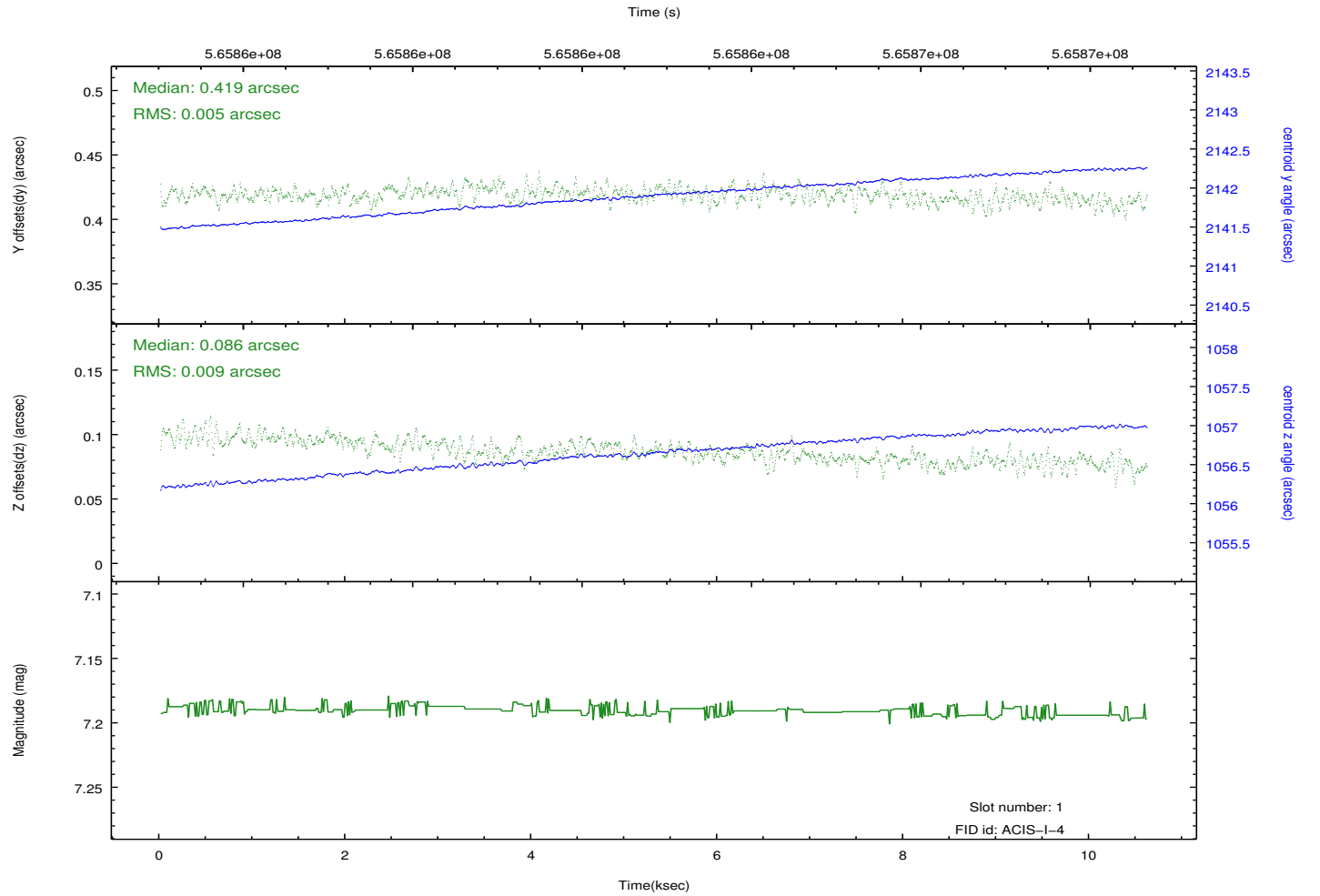
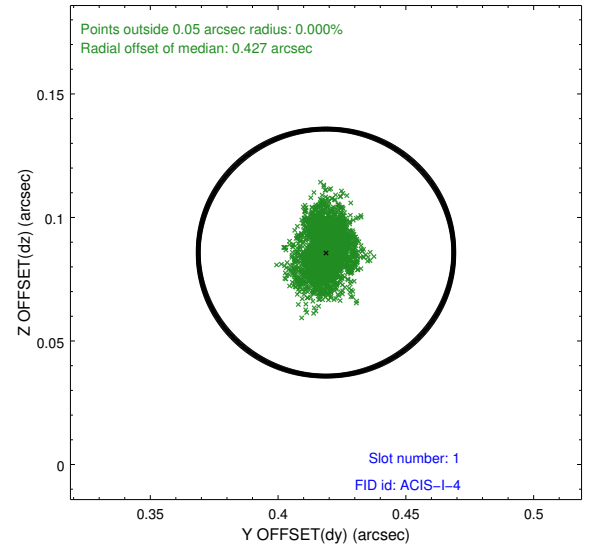
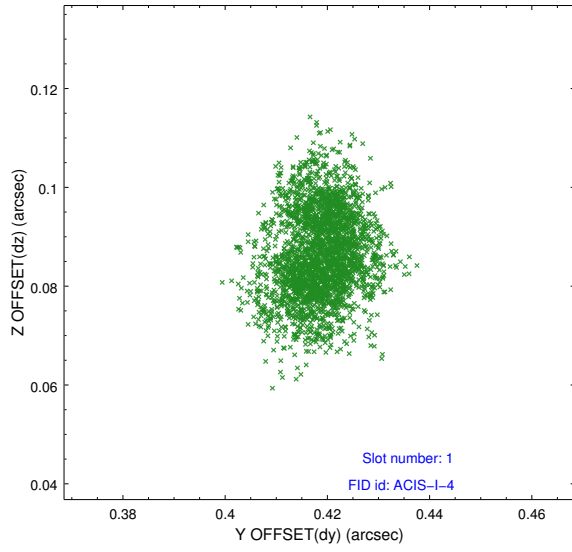


2.5 FID Slots

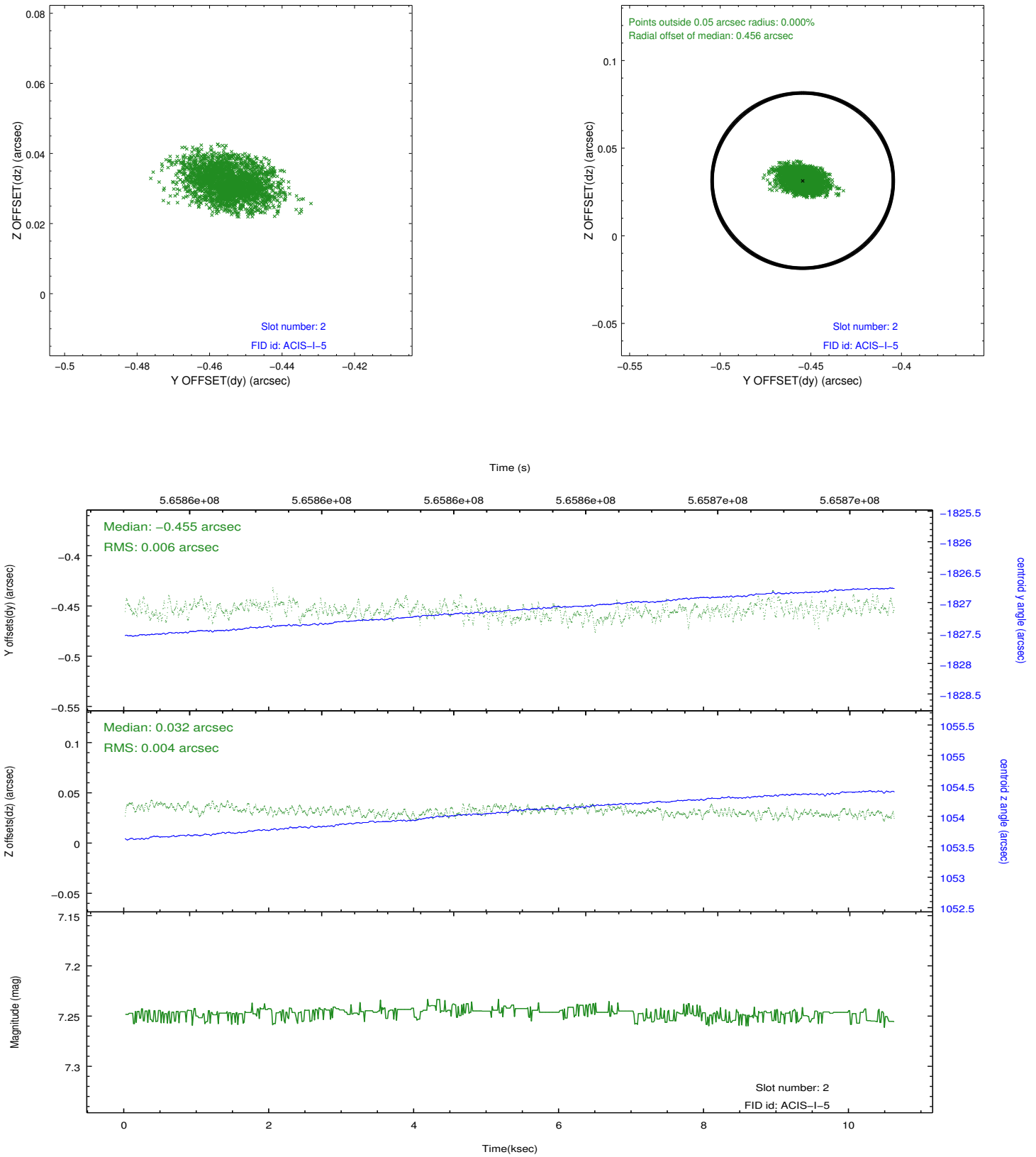
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.087400077701

A.2 Comments