

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16349 - L2 Version 1
Chandra X-Ray Center

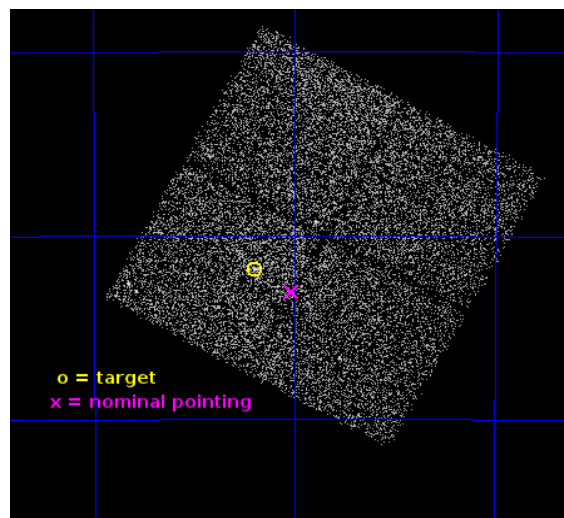
L2 Processing Date : Jun 14 2015

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1 Front

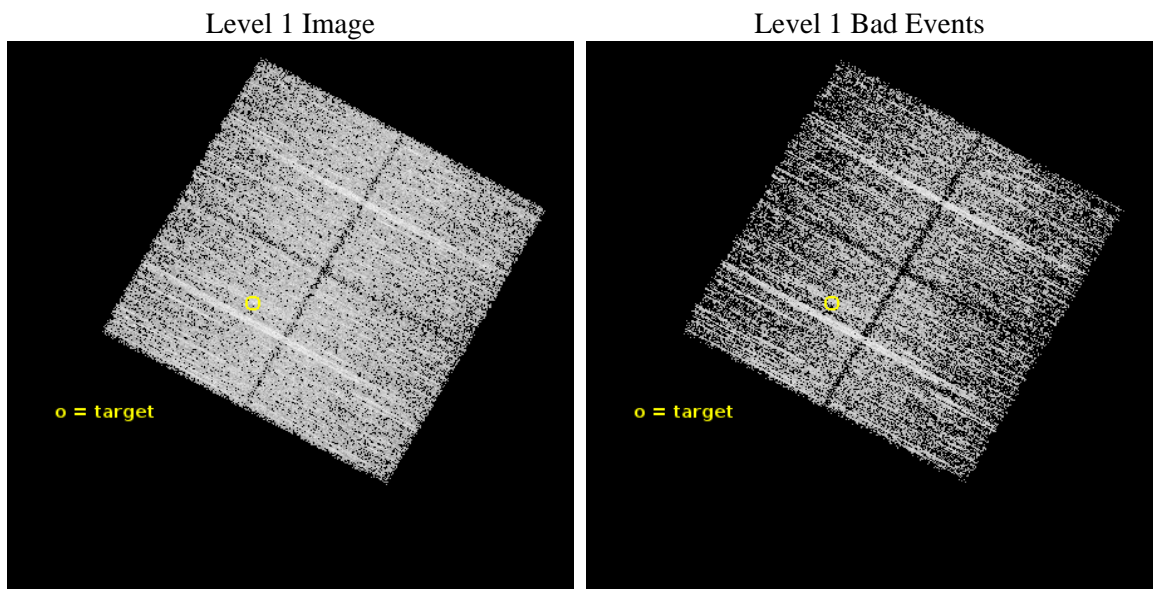
seq_num	601149	Sequence number
obs_id	16349	Observation id
title	Searching for evidence of dwarf galaxy collisions with large spiral galaxies through X-ray emission	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	NGC2442	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.099167	Observer's specified target RA [deg]
dec_targ	-69.530833	Observer's specified target Dec [deg]
ra_nom	114.00790302919	Nominal RA [deg]
dec_nom	-69.551296226543	Nominal Dec [deg]
roll_nom	209.12319205456	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10078.039372921	Sum of GTIs [s]
livetime	9946.3623691691	Livetime [s]
ontime0	10077.916252971	Sum of GTIs [s]
ontime1	10077.957292914	Sum of GTIs [s]
ontime2	10077.998332977	Sum of GTIs [s]
ontime3	10078.039372921	Sum of GTIs [s]
l2events	20908	Number of level 2 events



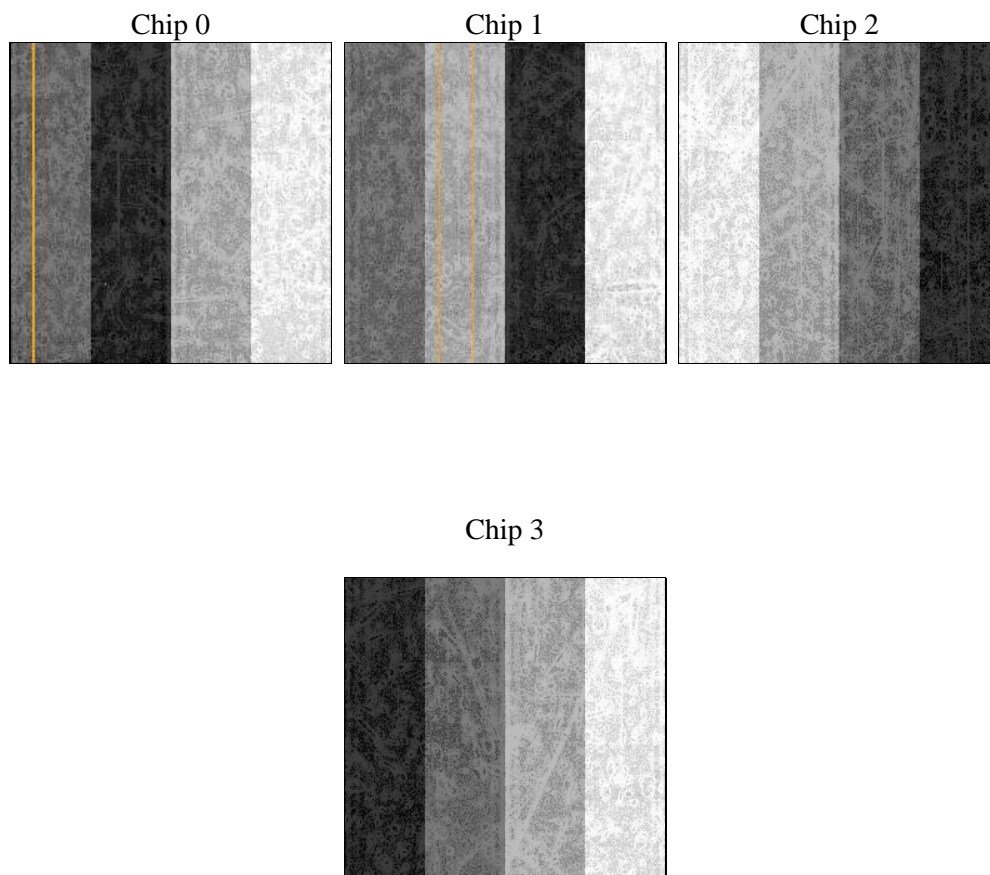
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	10078.039372921	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	10077.916252971	Sum of GTIs [s]
date	2015-06-14T12:01:37	Date and time of file creation	ontime1	10077.957292914	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10077.998332977	Sum of GTIs [s]
			ontime3	10078.039372921	Sum of GTIs [s]
			l1events	197532	Number of level 1 events

2.1.4 Events

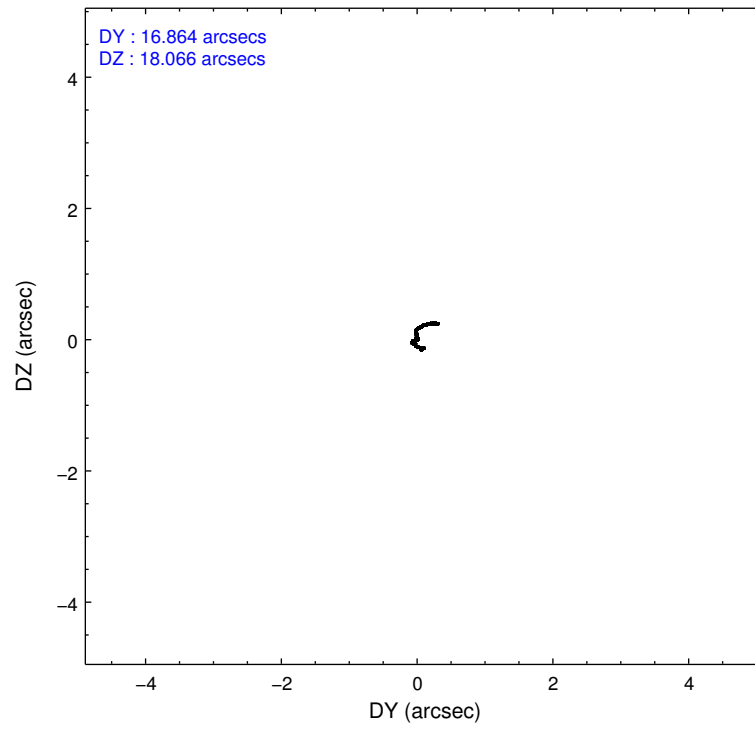
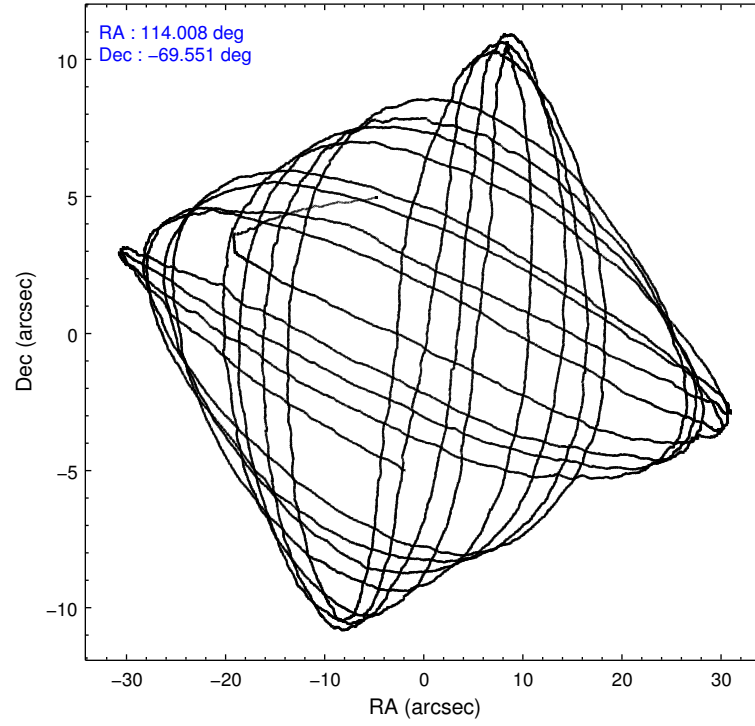
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	47459	47664	50185	52224
rejected events	41437	40770	44255	46010
rejected %	87%	85%	88%	88%

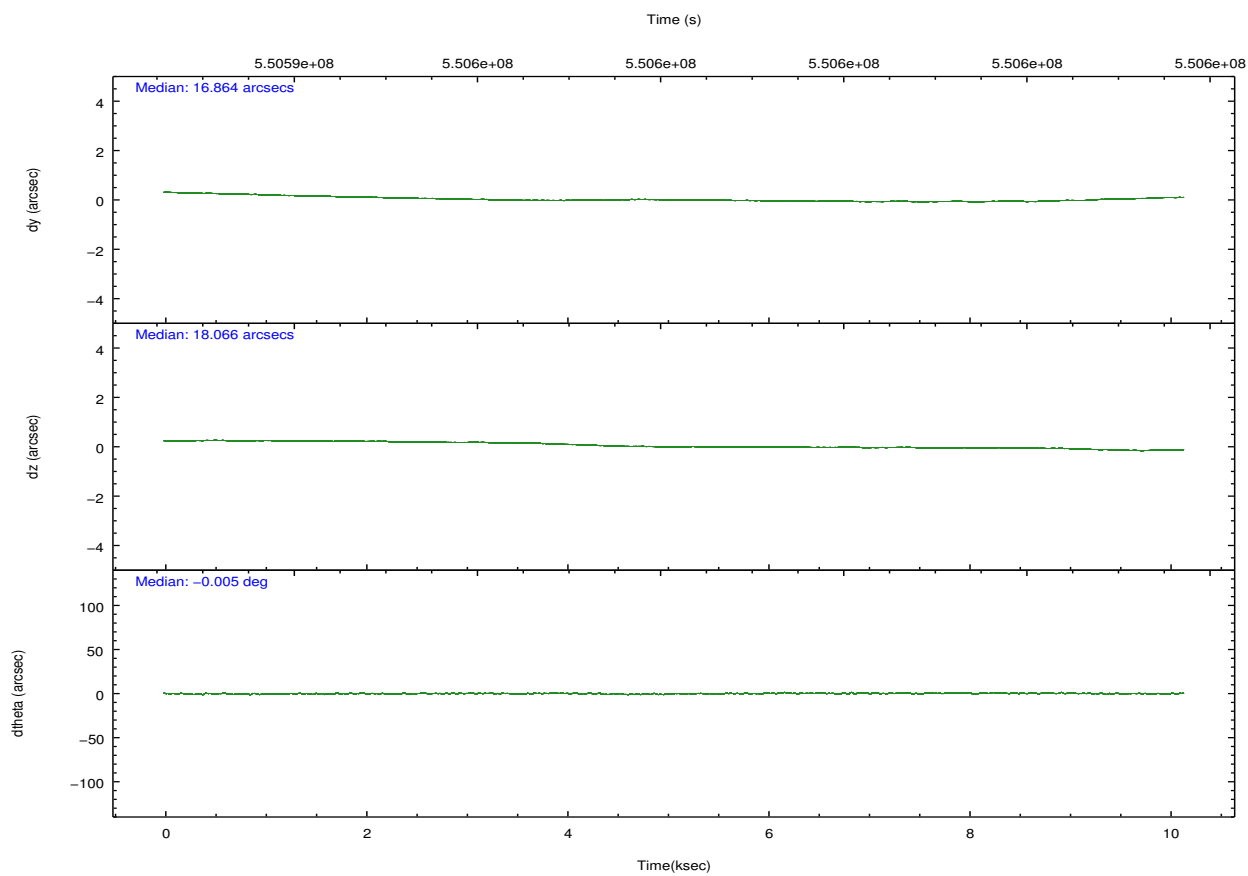
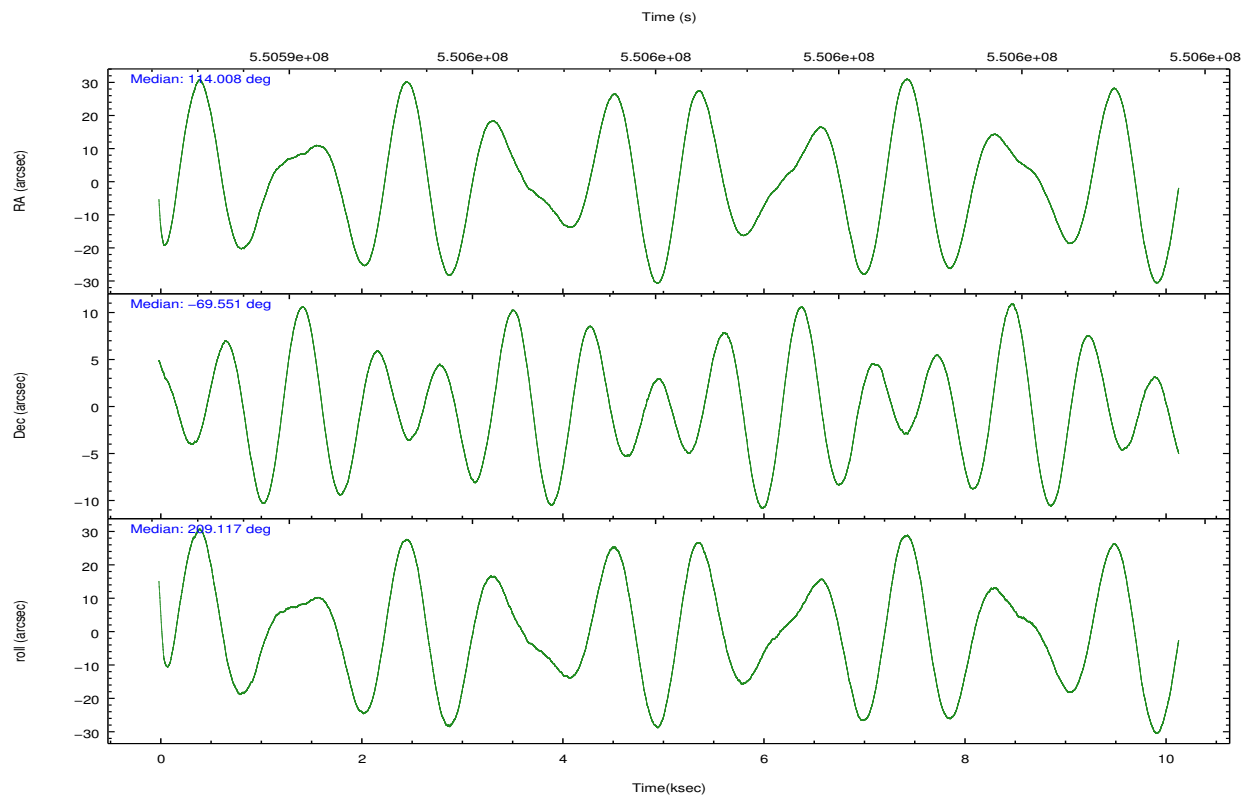
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2022	2342	2172	2417
	4%	4%	4%	4%
grade 1 events	29	22	27	30
	0%	0%	0%	0%
grade 2 events	1512	1697	1472	1361
	3%	3%	2%	2%
grade 3 events	631	616	603	614
	1%	1%	1%	1%
grade 4 events	595	690	620	614
	1%	1%	1%	1%
grade 5 events	2348	2512	2267	2657
	4%	5%	4%	5%
grade 6 events	1263	1550	1065	1211
	2%	3%	2%	2%
grade 7 events	39059	38235	41959	43320
	82%	80%	83%	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	114.048218	114.0079030291867	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.527545	-69.55129622654339	Alternating exposures requested	N	N
[deg] Pointing Roll	208.952258	209.1231920545601	[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	-225.592463	-225.5818545406617			
[mm] SIM translation stage offset	-8	-8.010598462268035			
[s] Observation start time (MET)	550593214.184000	550592055.40557			
Observation start date	2015-06-13T14:32:27	2015-06-13T14:14:15			
[s] Observation end time (MET)	550603214.184000	550603699.91873			
Observation end date	2015-06-13T17:19:07	2015-06-13T17:28:19			
Read mode	TIMED	TIMED			

2.3 Aspect



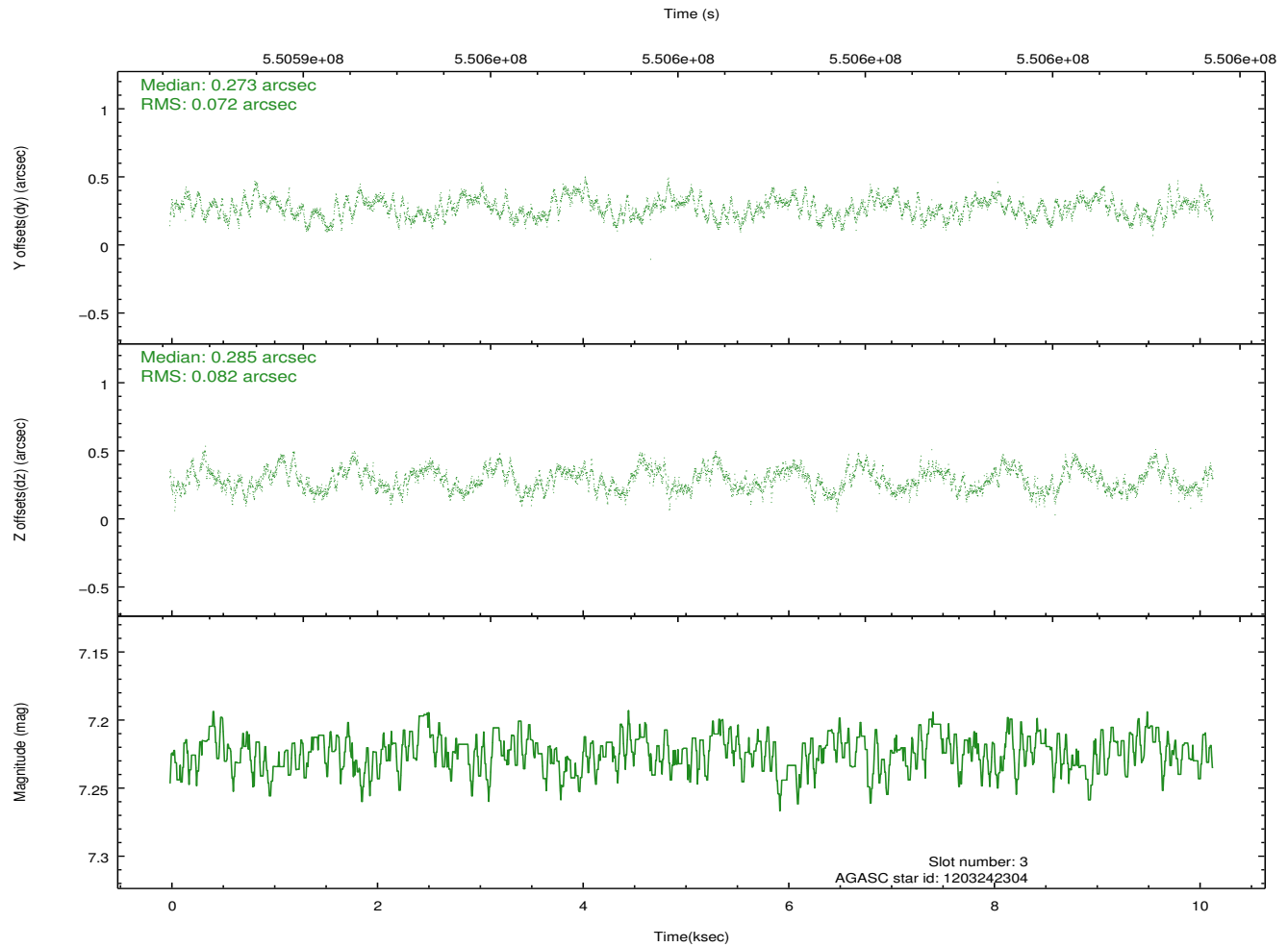
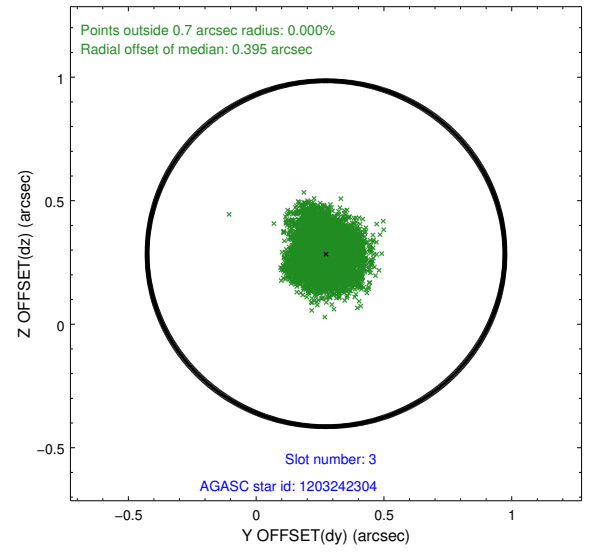
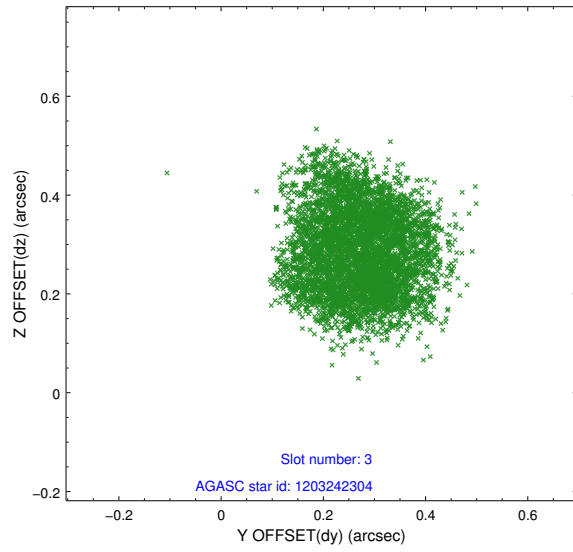


Slot Statistics

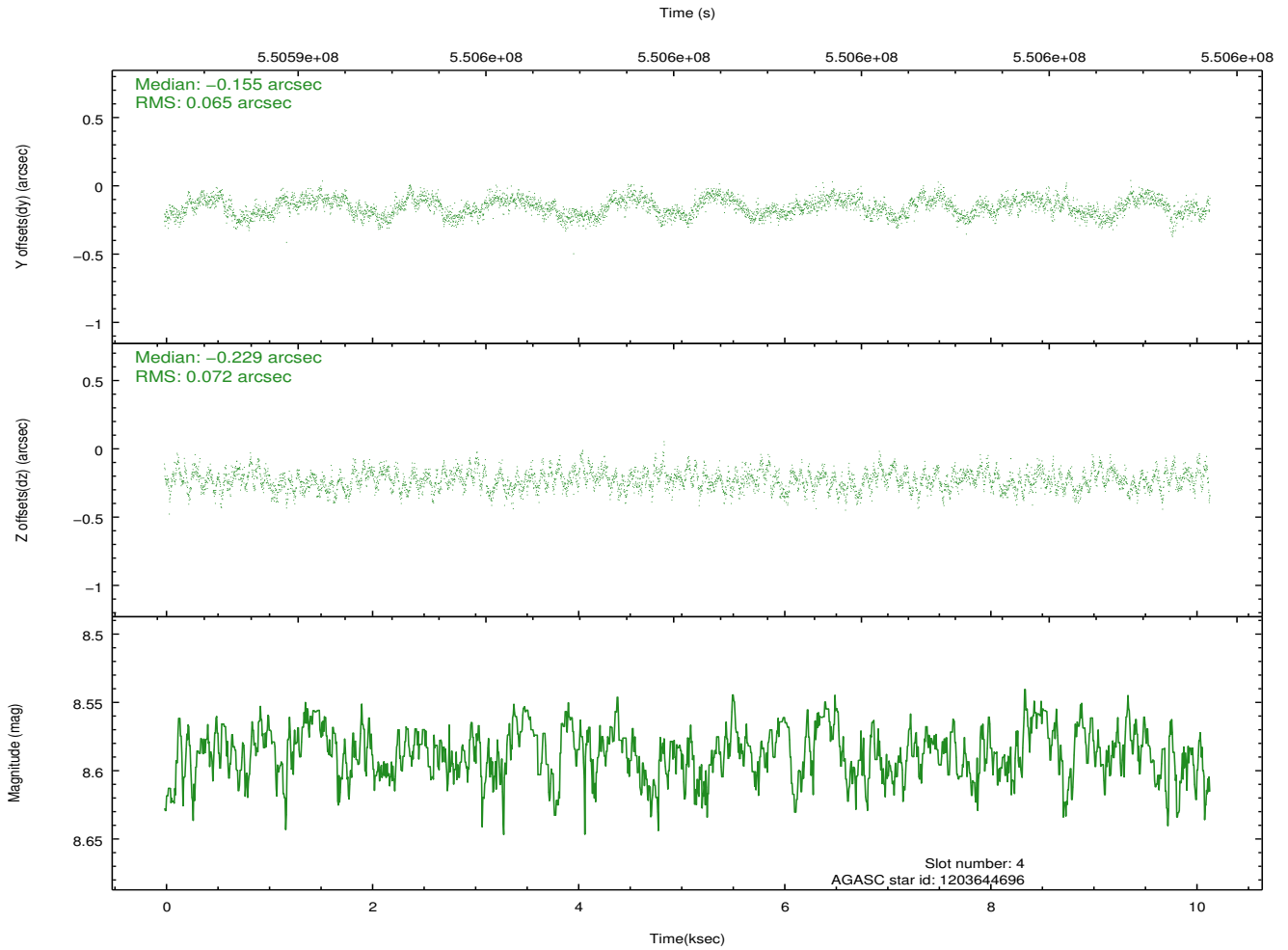
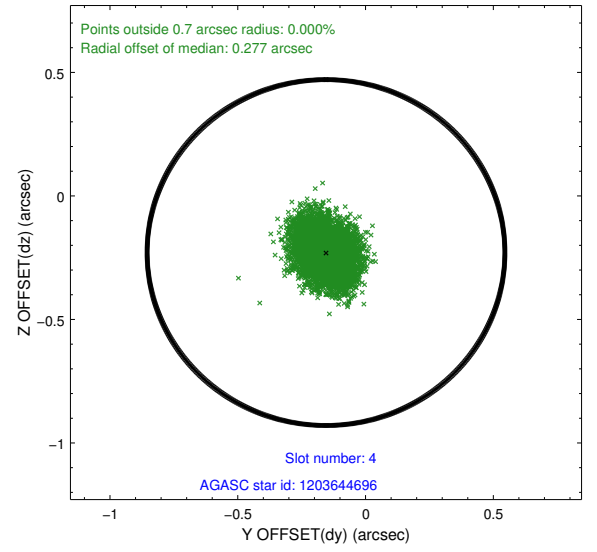
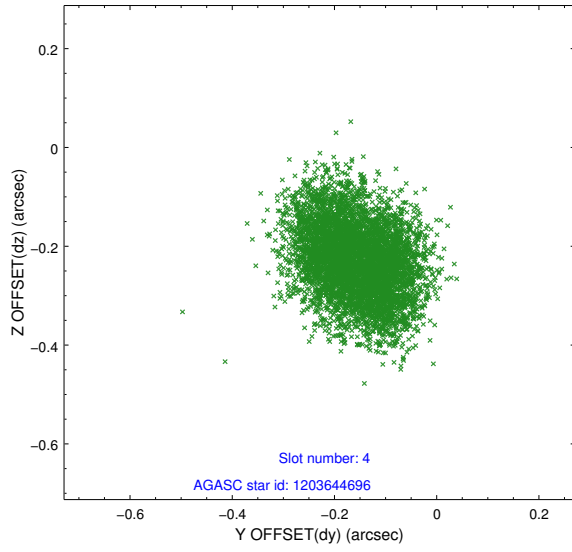
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	2474	0.129	-0.070	0.007	0.011	0.000000	0.000000	922.55	-1006.27
1	FID		ACIS-I-5	7.10	2475	-0.291	0.110	0.007	0.012	0.000000	0.000000	-1825.80	890.90
2	FID		ACIS-I-6	7.10	2475	0.070	0.032	0.007	0.012	0.000000	0.000000	387.31	1536.05
3	GUIDE	used	1203242304	7.22	4949	0.273	0.285	0.119	0.175	114.080234	-69.056539	-856.66	-1463.58
4	GUIDE	used	1203644696	8.59	4947	-0.155	-0.229	0.105	0.163	113.755728	-70.243391	1558.90	2082.57
5	GUIDE	used	1203644784	7.80	4950	-0.146	-0.071	0.064	0.108	113.428027	-69.891181	1307.17	778.03
6	GUIDE	used	1203768944	8.86	4943	0.024	-0.022	0.110	0.176	114.491219	-70.068135	467.05	1967.60
7	GUIDE	used	1203782728	6.67	4949	0.004	0.037	0.095	0.163	116.054242	-69.821595	-1646.97	2167.78

2.4 Star Slots

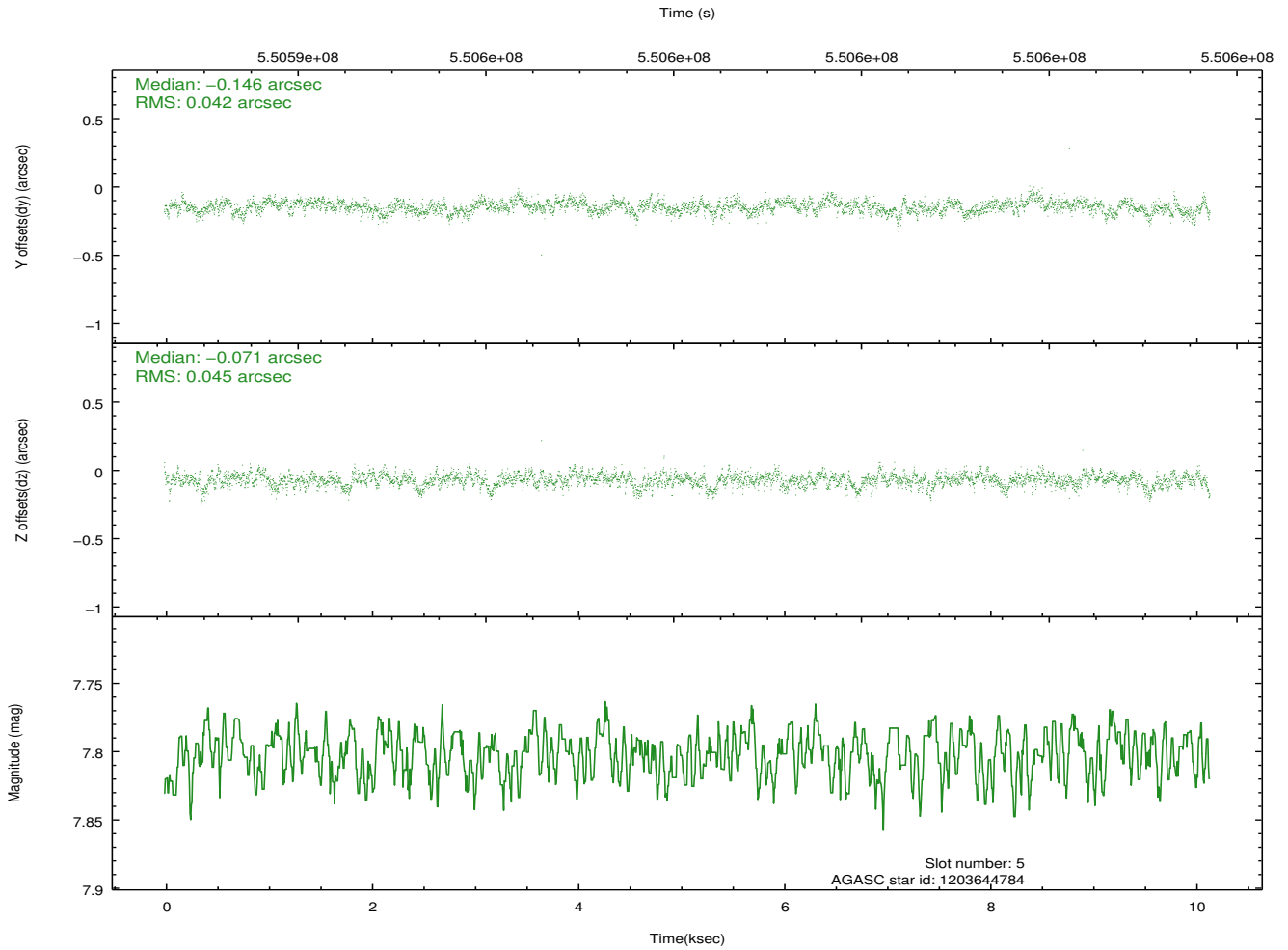
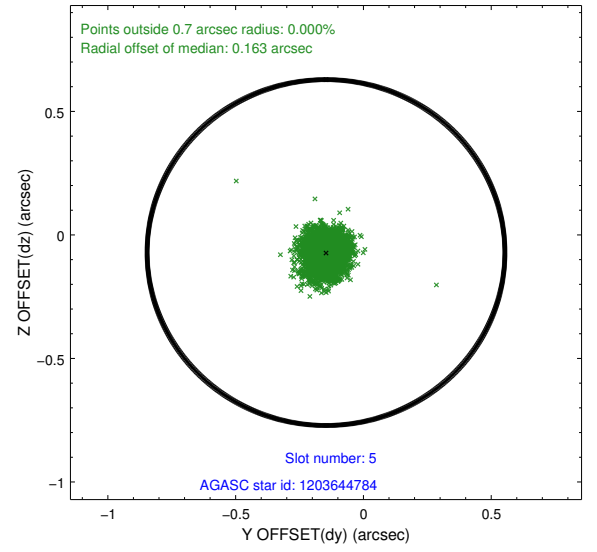
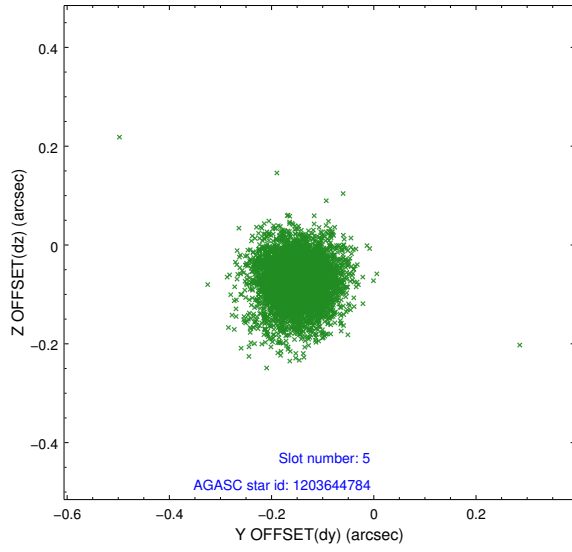
2.4.1 Slot 3



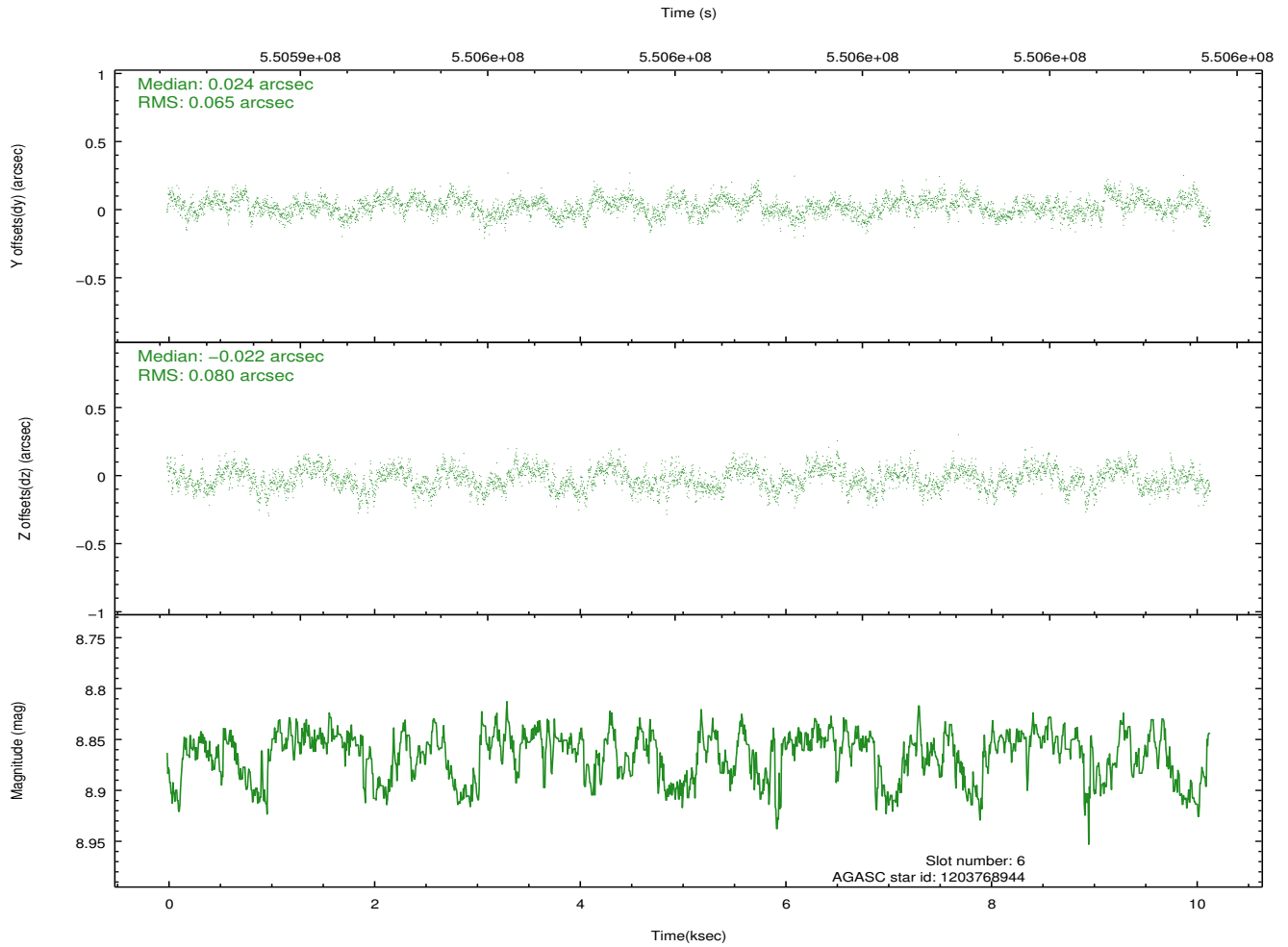
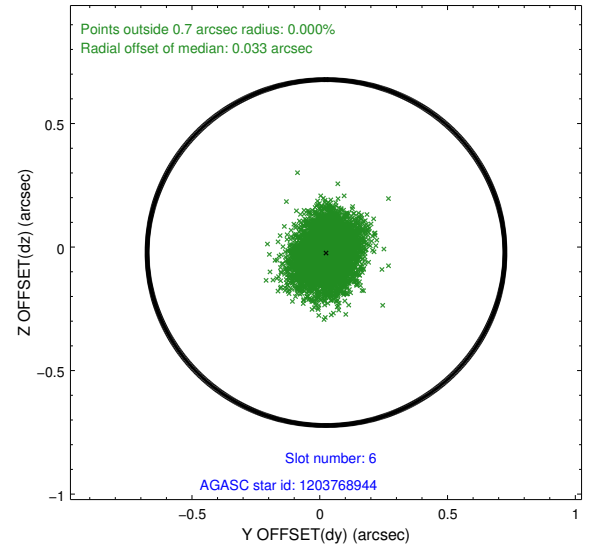
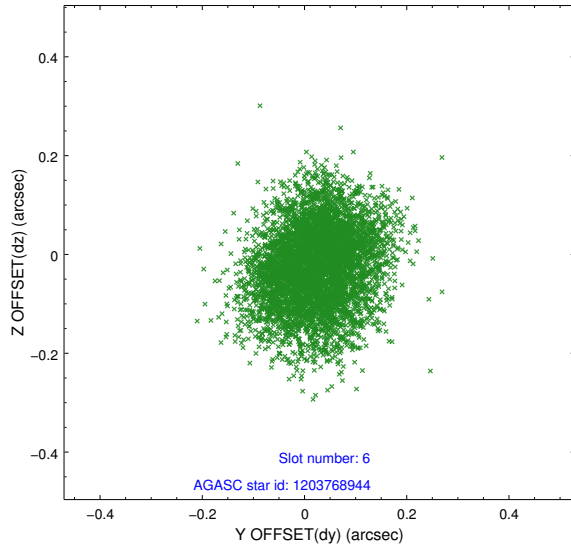
2.4.2 Slot 4



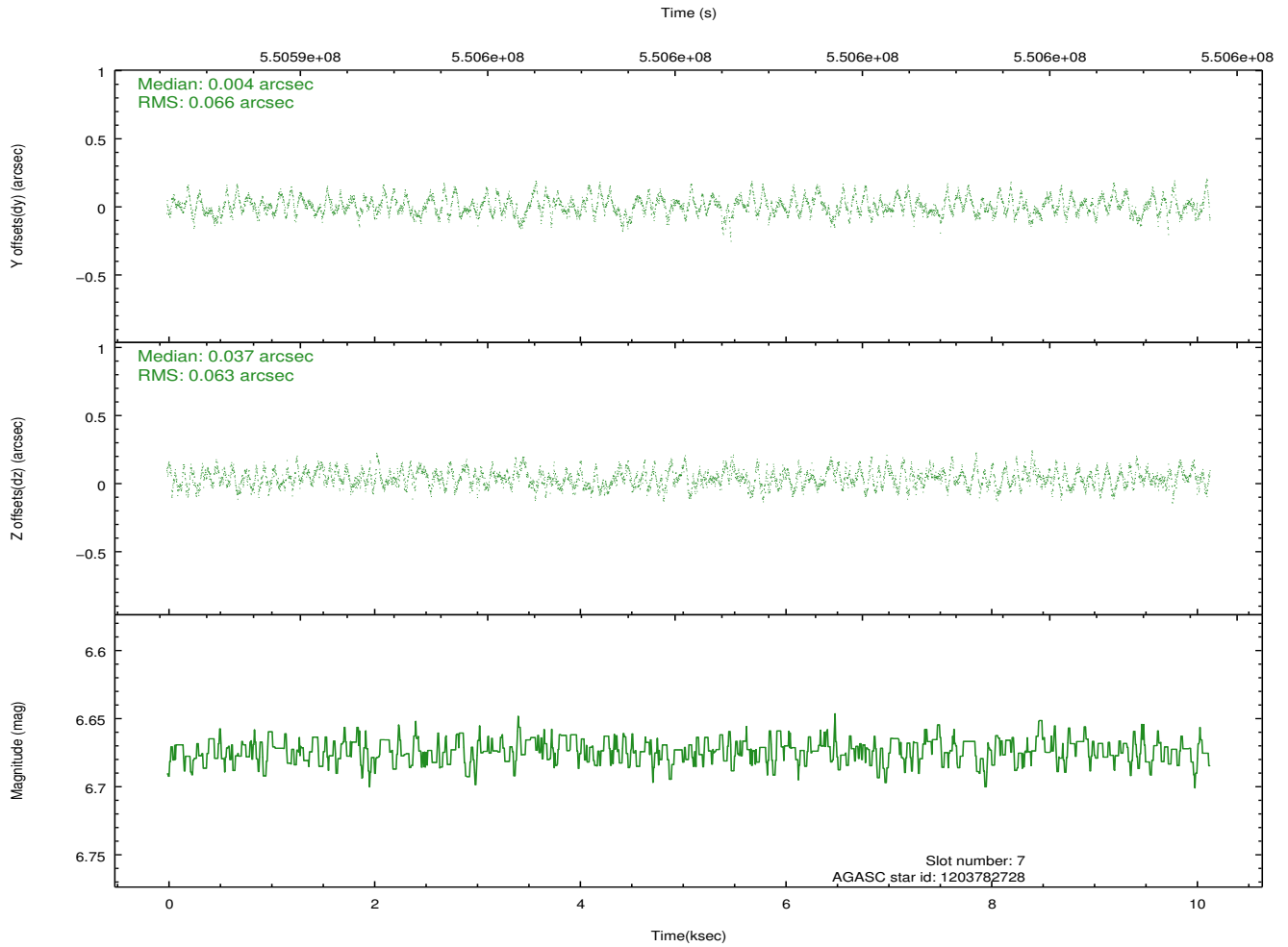
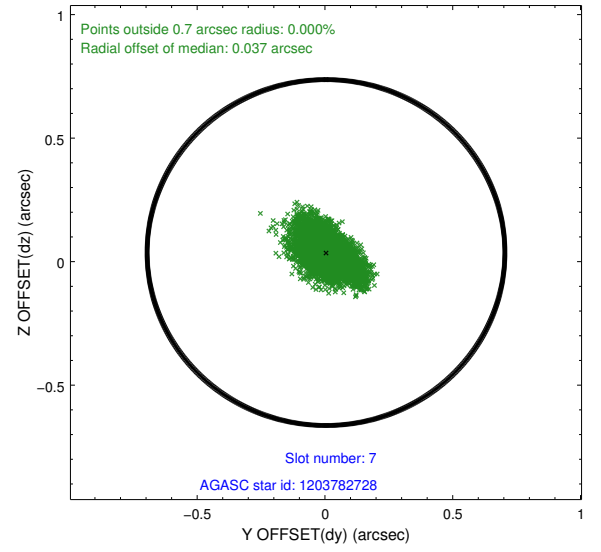
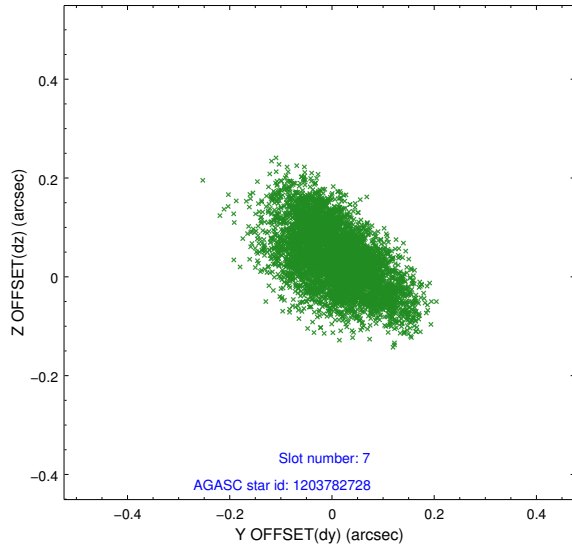
2.4.3 Slot 5



2.4.4 Slot 6

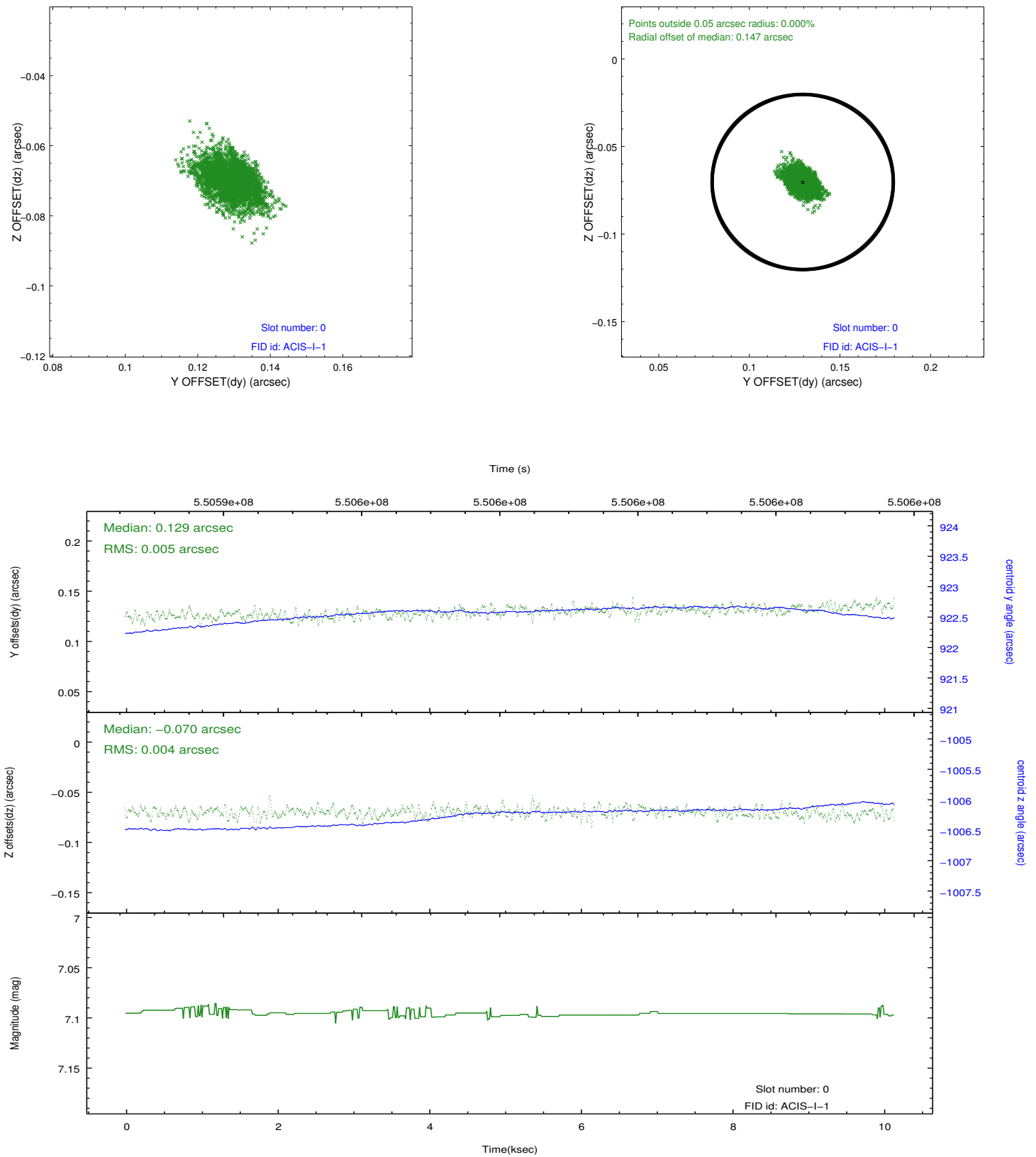


2.4.5 Slot 7

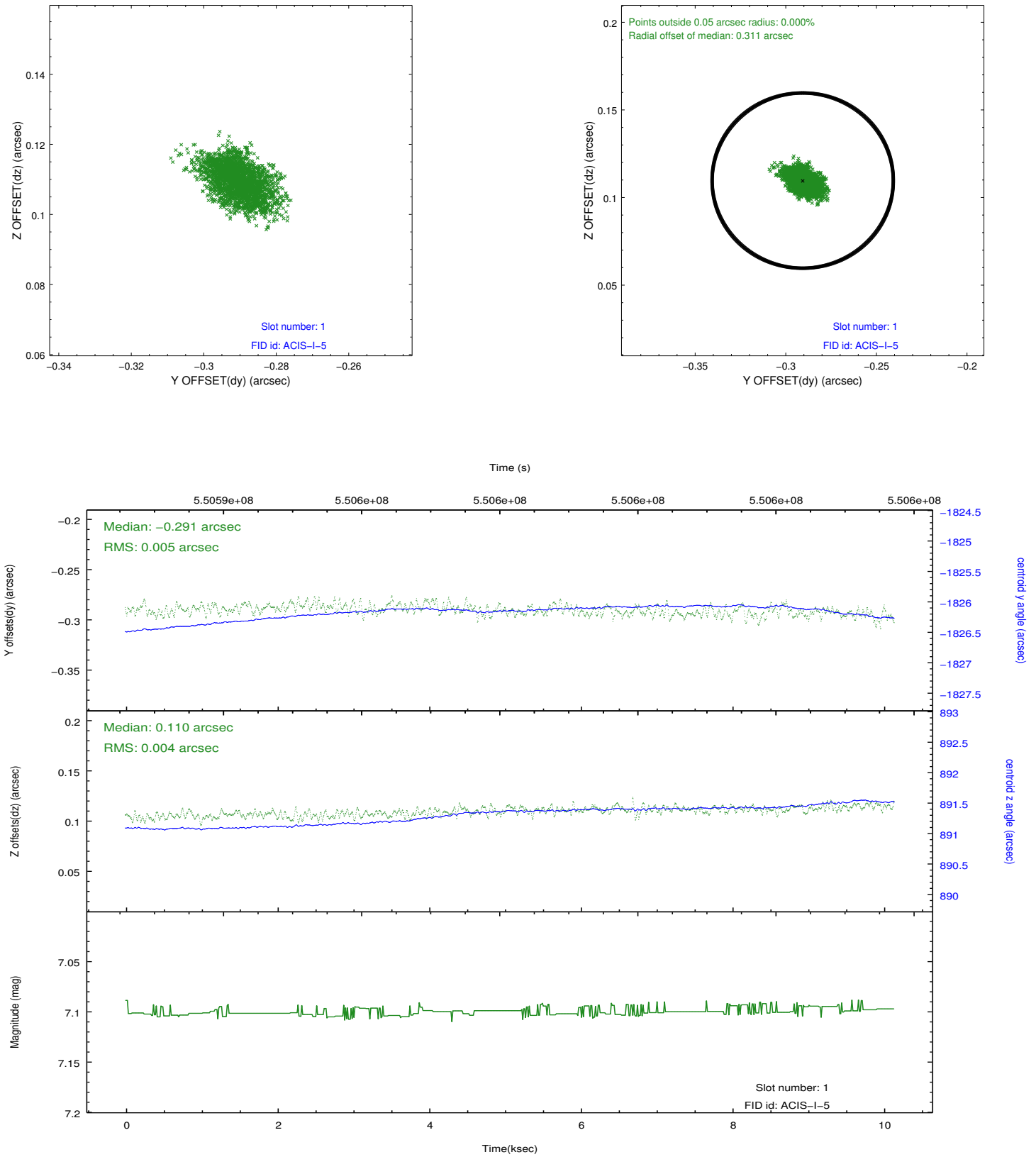


2.5 FID Slots

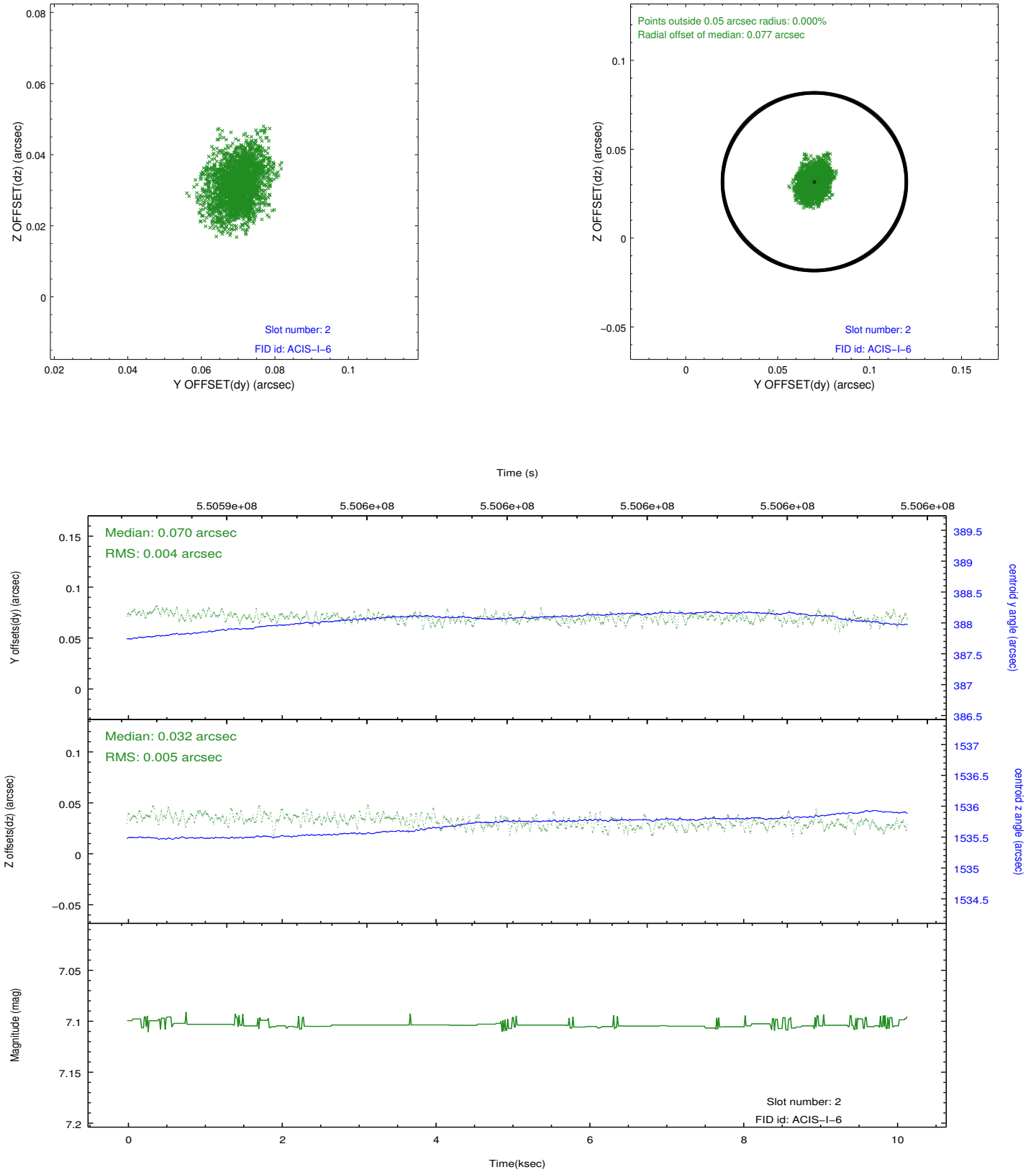
2.5.1 Slot 0



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)	2015.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.078039372921

A.2 Comments