

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3942 - L2 Version 3
Chandra X-Ray Center

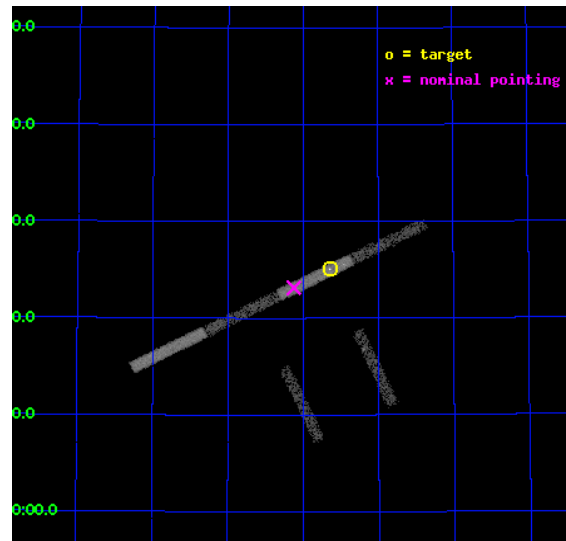
L2 Processing Date : Nov 4 2012

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1 Front

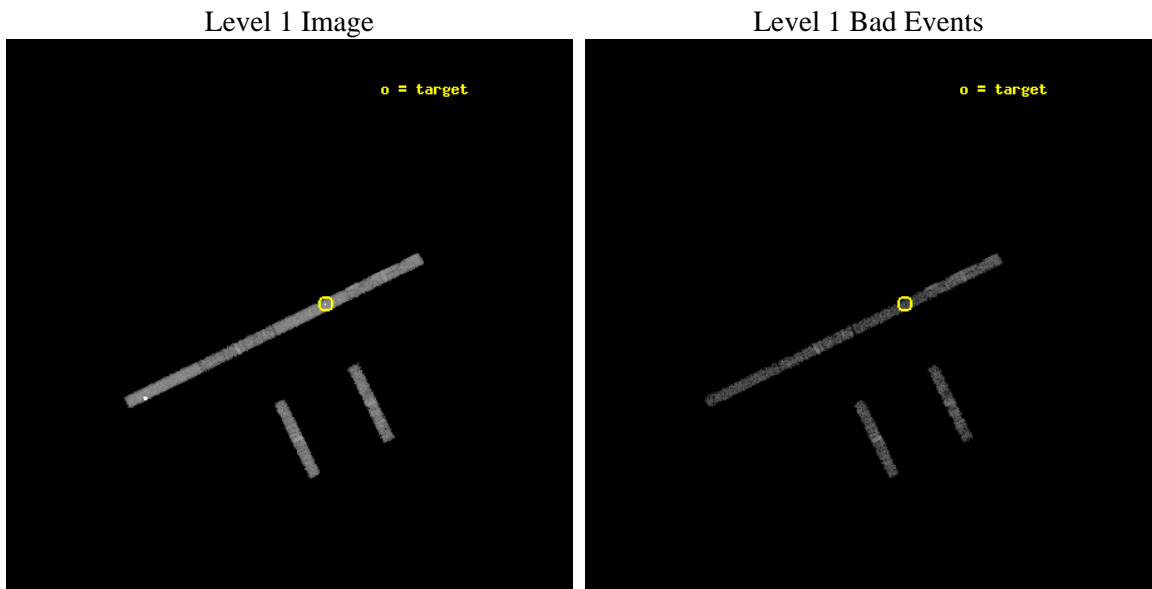
seq_num	600316	Sequence number
obs_id	3942	Observation id
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1	Proposal title
observer	Dr Timothy Roberts	Principal investigator
object	NGC 5204 X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.410833	Observer's specified target RA [deg]
dec_targ	58.418333	Observer's specified target Dec [deg]
ra_nom	202.53074961612	Nominal RA [deg]
dec_nom	58.385787729088	Nominal Dec [deg]
roll_nom	334.05162478262	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5512.4999061227	Sum of GTIs [s]
livetime	5207.2086989715	Livetime [s]
ontime2	5512.4999061227	Sum of GTIs [s]
ontime3	5512.4999061227	Sum of GTIs [s]
ontime5	5512.4999061227	Sum of GTIs [s]
ontime6	5512.4999061227	Sum of GTIs [s]
ontime7	5512.4999061227	Sum of GTIs [s]
ontime8	5512.4999061227	Sum of GTIs [s]
l2events	15823	Number of level 2 events



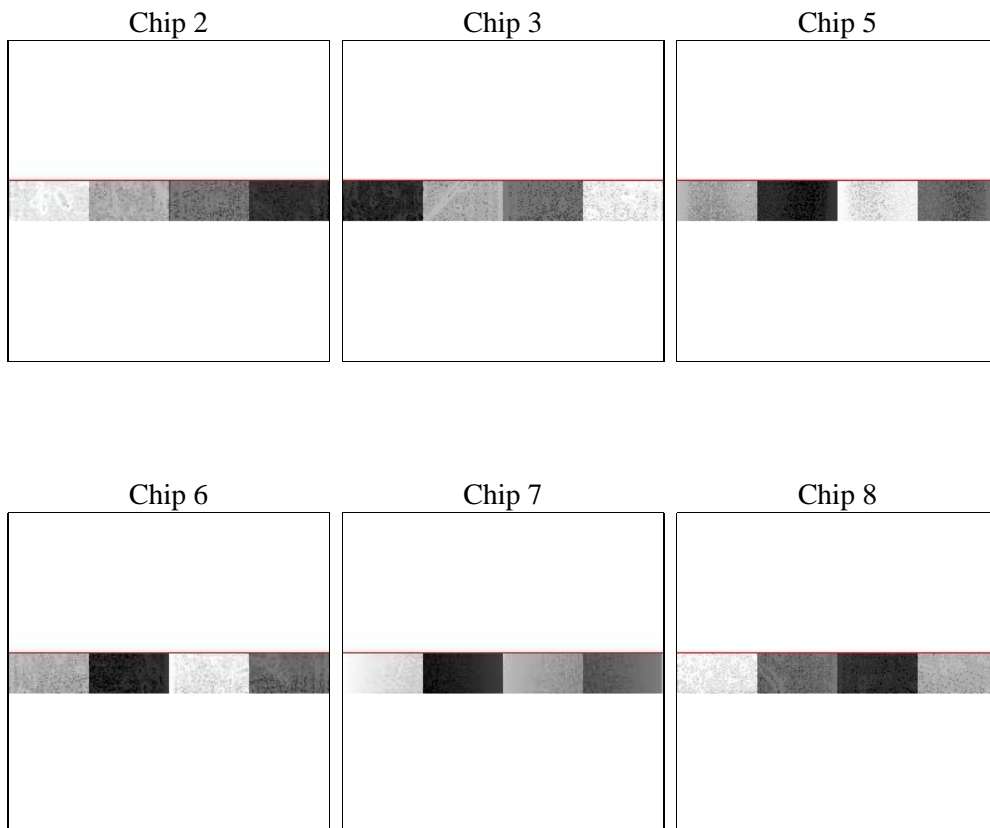
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5512.4999061227	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	5512.4999061227	Sum of GTIs [s]
date	2012-11-04T11:21:44	Date and time of file creation	ontime3	5512.4999061227	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5512.4999061227	Sum of GTIs [s]
			ontime6	5512.4999061227	Sum of GTIs [s]
			ontime7	5512.4999061227	Sum of GTIs [s]
			ontime8	5512.4999061227	Sum of GTIs [s]
			l1events	56137	Number of level 1 events

2.1.4 Events

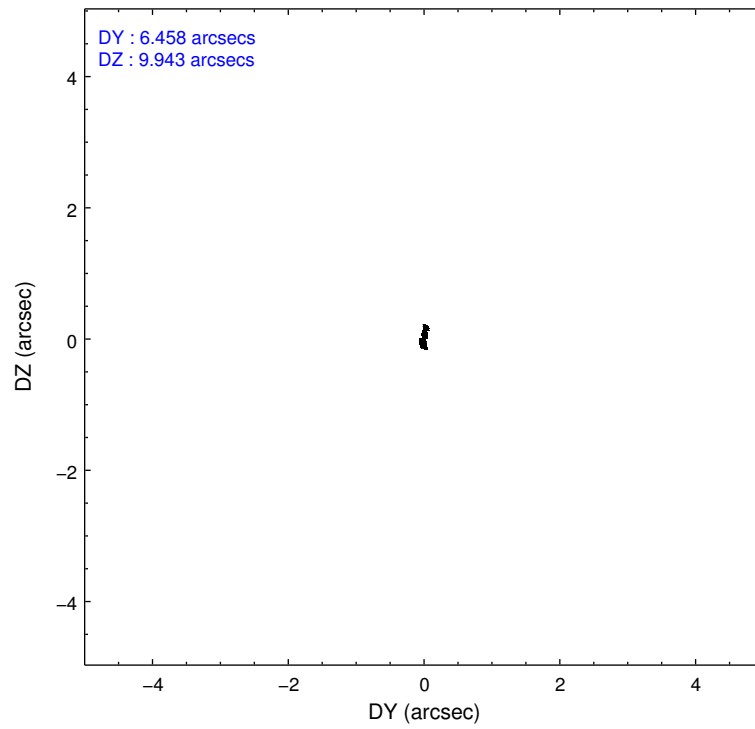
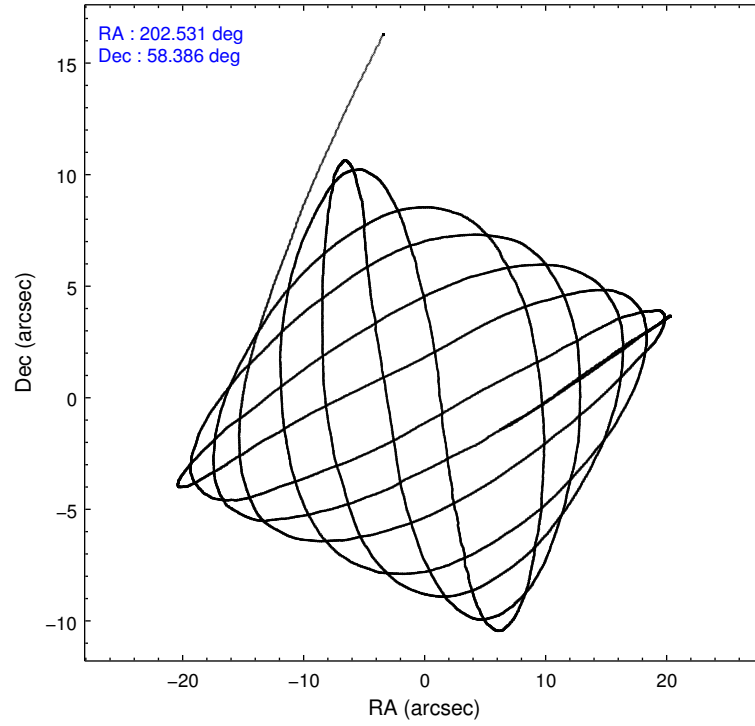
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6775	6276	16864	6430	10924	8868
rejected events	5831	5348	4052	5298	3946	7125
rejected %	86%	85%	24%	82%	36%	80%

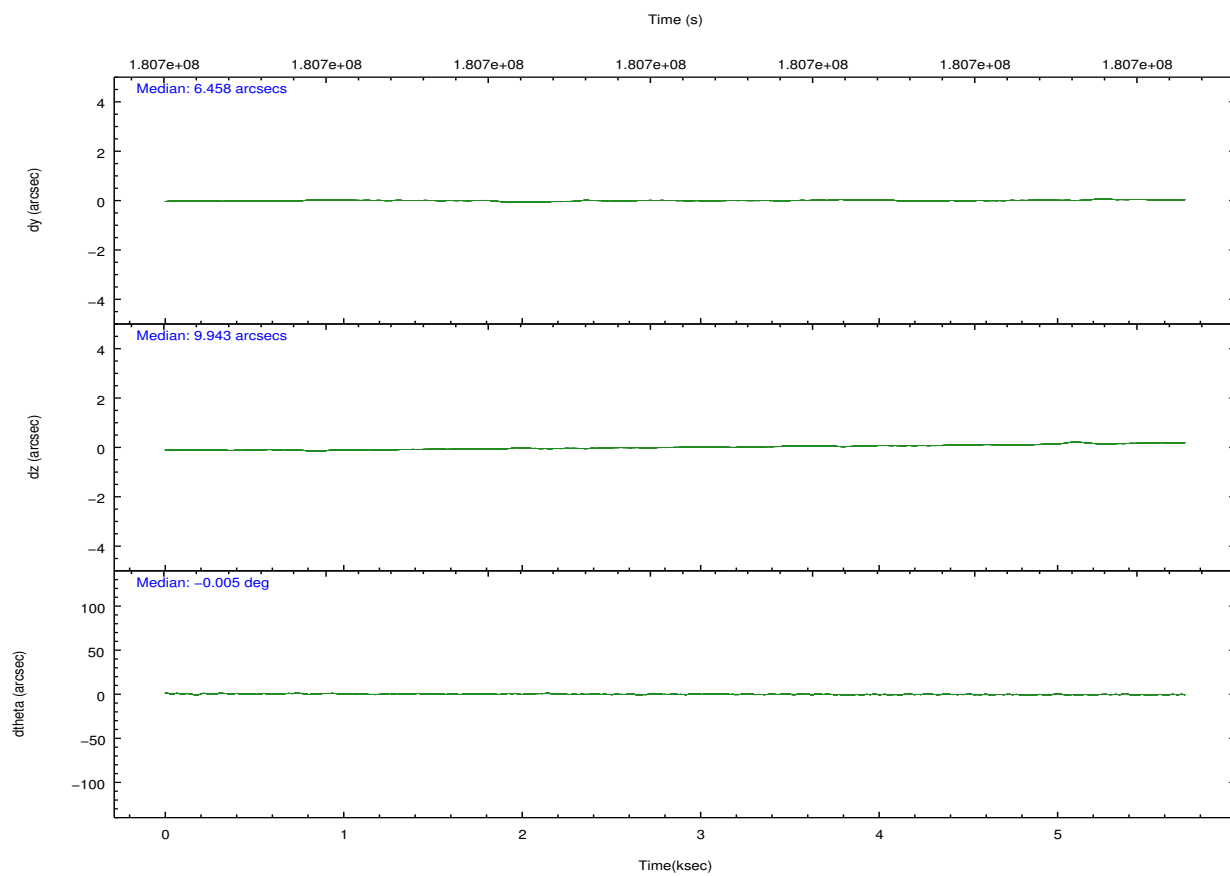
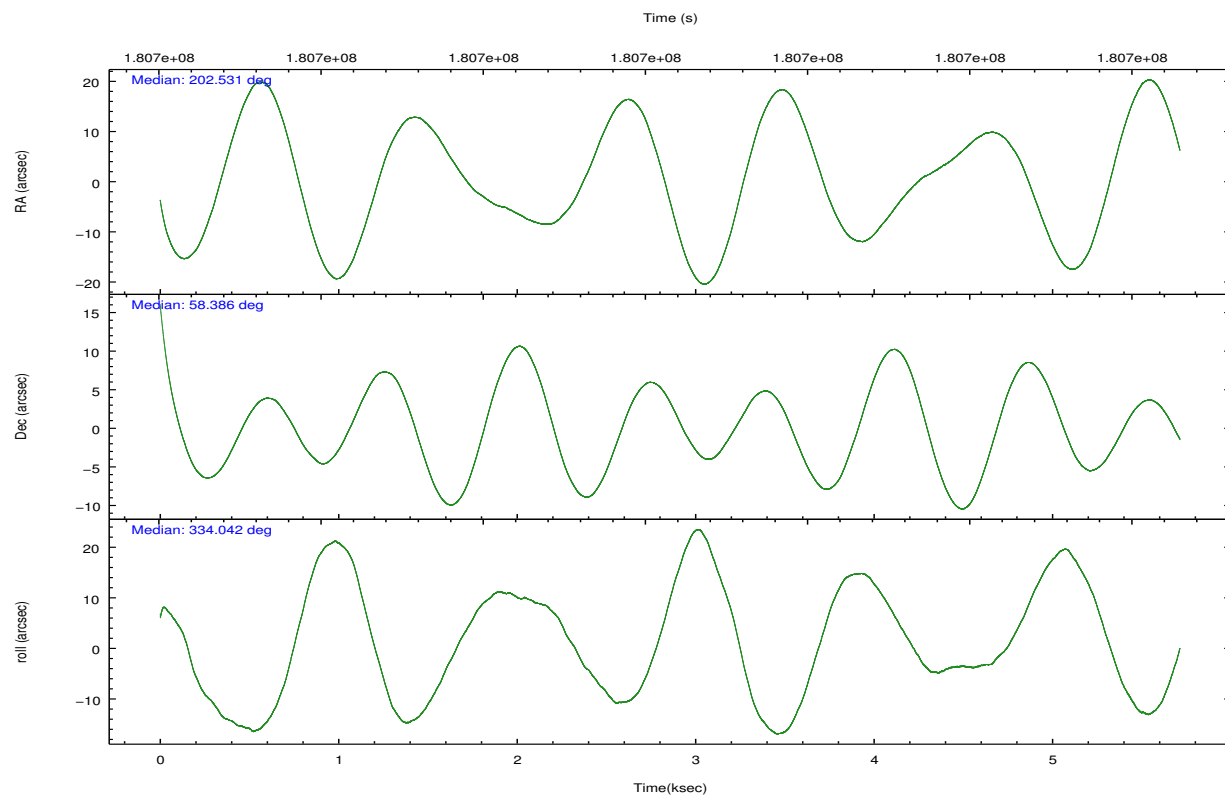
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	440	426	4506	568	1098	665
	6%	6%	26%	8%	10%	7%
grade 1 events	3	3	38	1	10	2
	0%	0%	0%	0%	0%	0%
grade 2 events	135	135	4760	168	1432	310
	1%	2%	28%	2%	13%	3%
grade 3 events	122	135	429	123	709	169
	1%	2%	2%	1%	6%	1%
grade 4 events	133	112	444	135	748	176
	1%	1%	2%	2%	6%	1%
grade 5 events	211	202	691	202	653	273
	3%	3%	4%	3%	5%	3%
grade 6 events	115	120	2675	138	2992	423
	1%	1%	15%	2%	27%	4%
grade 7 events	5616	5143	3321	5095	3282	6850
	82%	81%	19%	79%	30%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	202.478879	202.5307496161154	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	58.383482	58.38578772908785	Subarray start row	449	449
[deg] Pointing Roll	333.939164	334.0516247826152	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.7
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	180698009.184000	180696781.68844			
Observation start date	2003-09-23T09:52:25	2003-09-23T09:33:01			
[s] Observation end time (MET)	180703009.184000	180703563.60123			
Observation end date	2003-09-23T11:15:45	2003-09-23T11:26:03			
Read mode	TIMED	TIMED			

2.3 Aspect



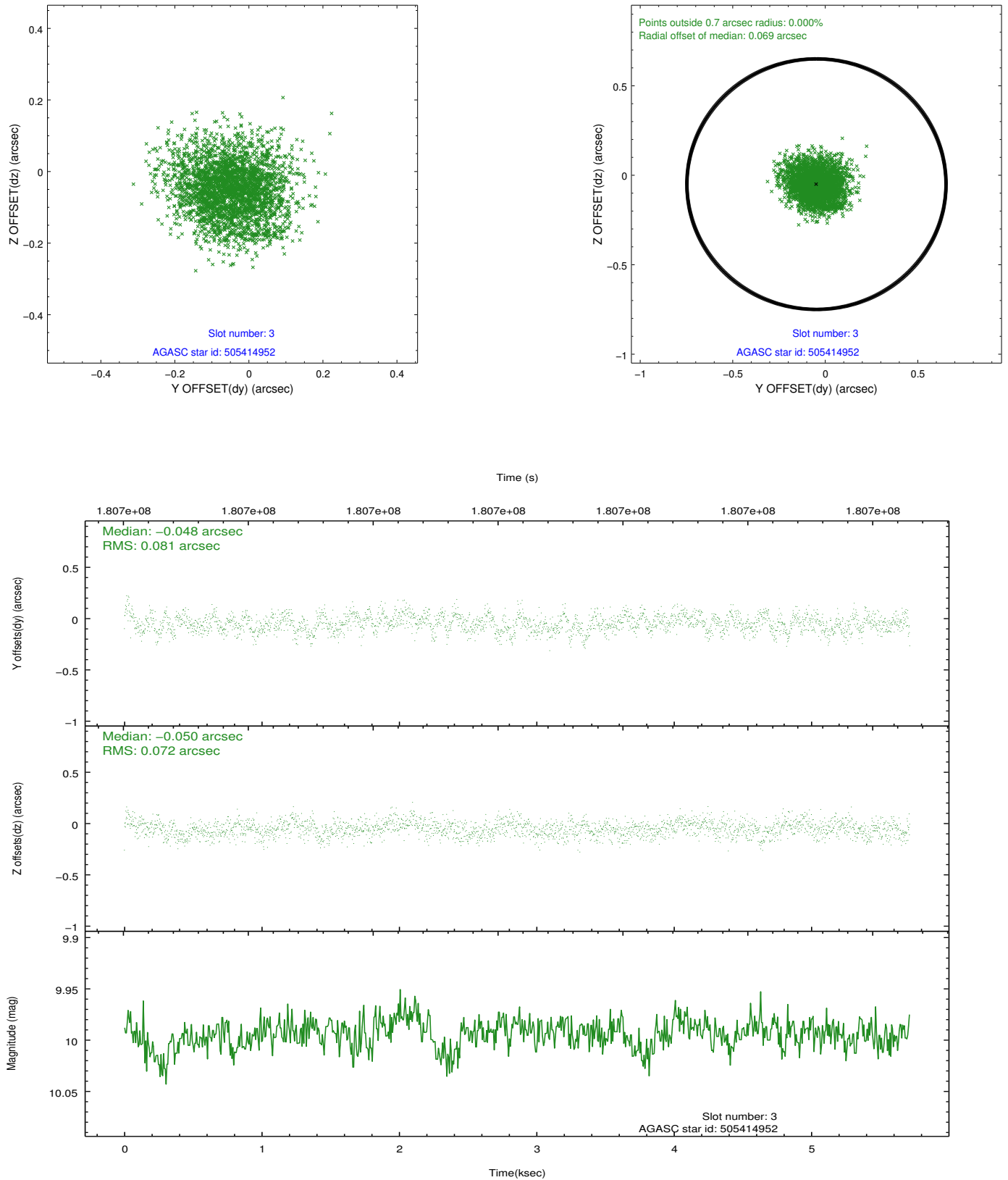


Slot Statistics

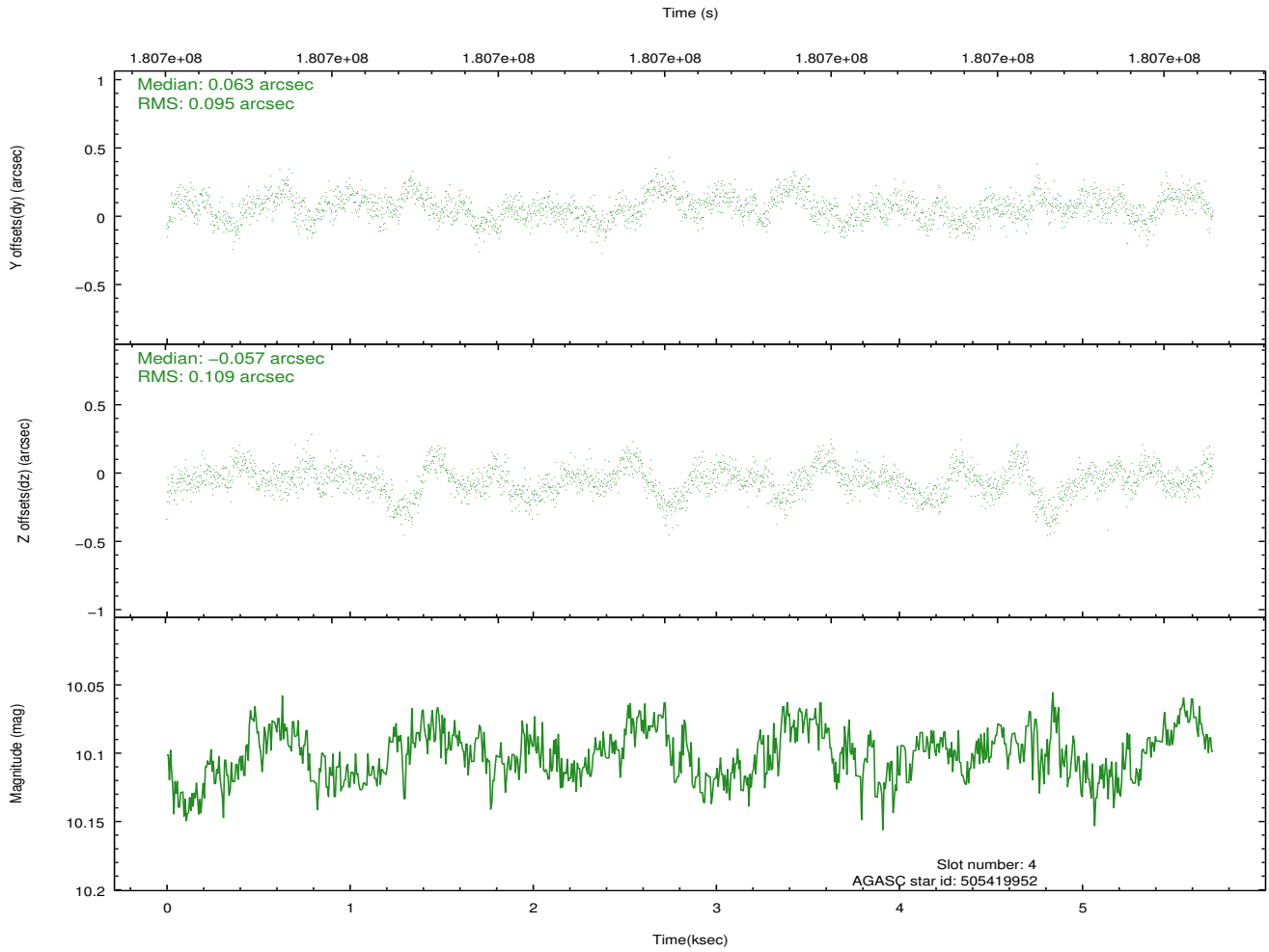
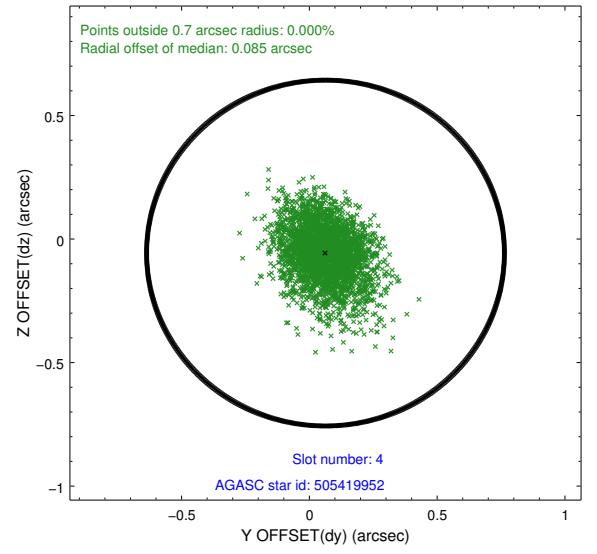
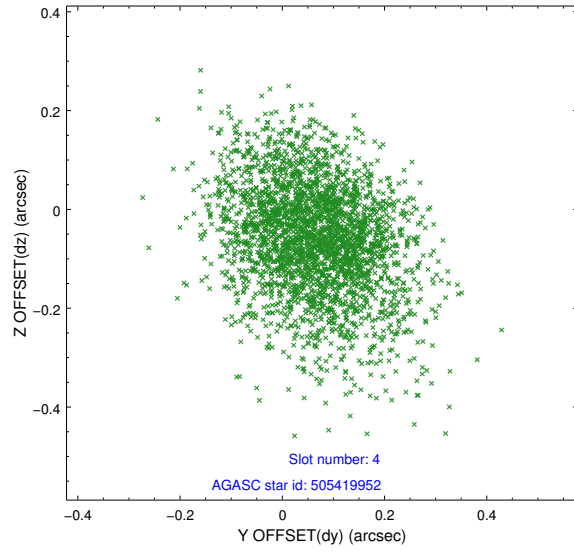
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1394	-0.056	-0.013	0.007	0.011	0.000000	0.000000	-759.23	-1731.22
1	FID	ACIS-S-4	7.20	1394	0.063	0.031	0.006	0.012	0.000000	0.000000	2153.67	176.27
2	FID	ACIS-S-5	7.22	1394	-0.039	-0.008	0.007	0.012	0.000000	0.000000	-1810.73	171.03
3	GUIDE	505414952	9.99	2784	-0.048	-0.050	0.117	0.185	203.527988	58.651569	1334.04	1744.30
4	GUIDE	505419952	10.10	2784	0.063	-0.057	0.151	0.250	201.880700	58.804366	-1669.44	876.06
5	GUIDE	505421936	8.88	2787	-0.023	0.126	0.083	0.136	201.854843	57.887820	-291.55	-2122.06
6	GUIDE	505421968	8.20	2787	0.059	-0.032	0.071	0.112	202.022601	58.209270	-503.04	-941.66
7	GUIDE	505422344	8.61	2788	-0.052	0.023	0.071	0.115	202.767077	57.846963	1344.18	-1491.41

2.4 Star Slots

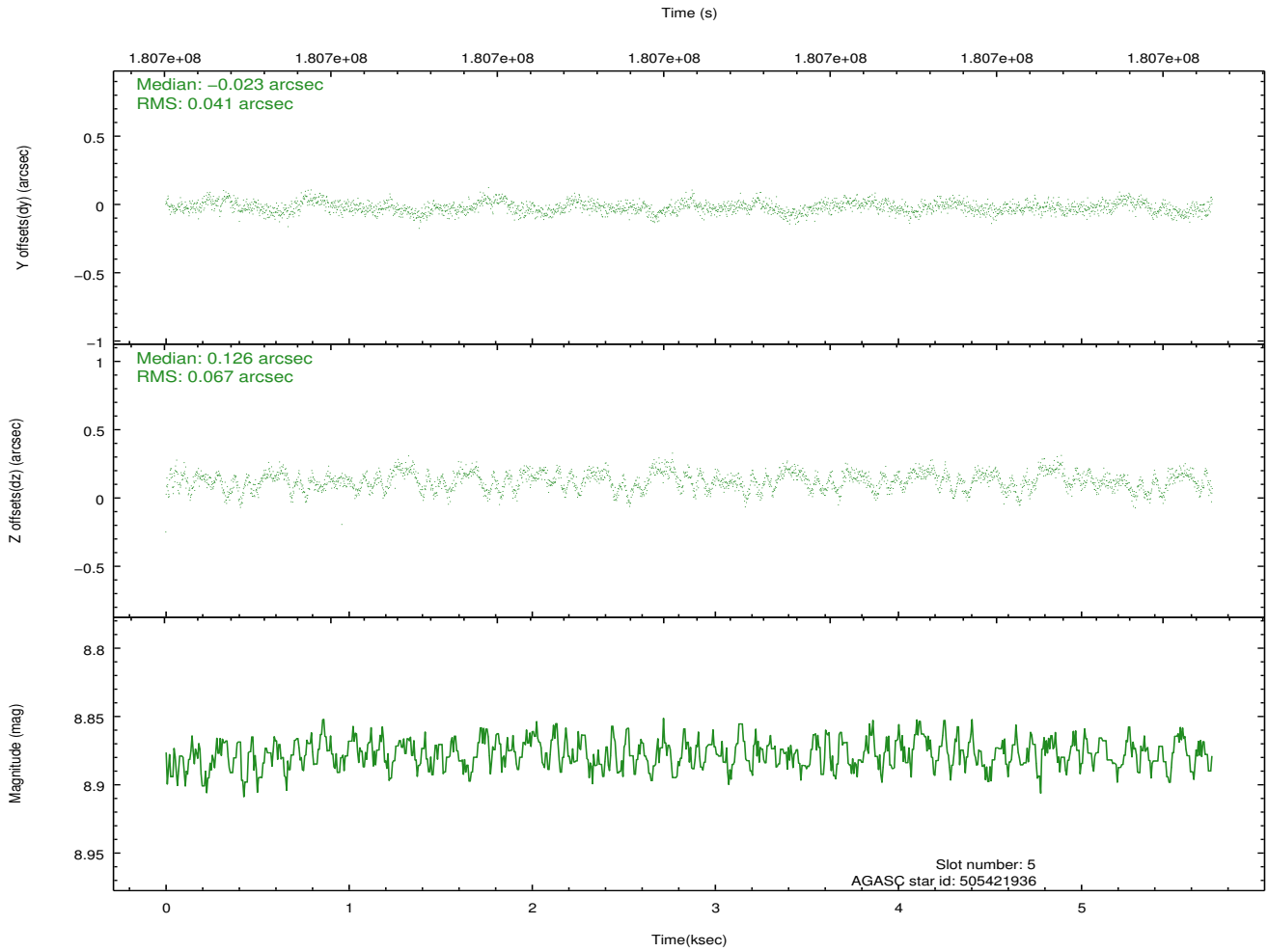
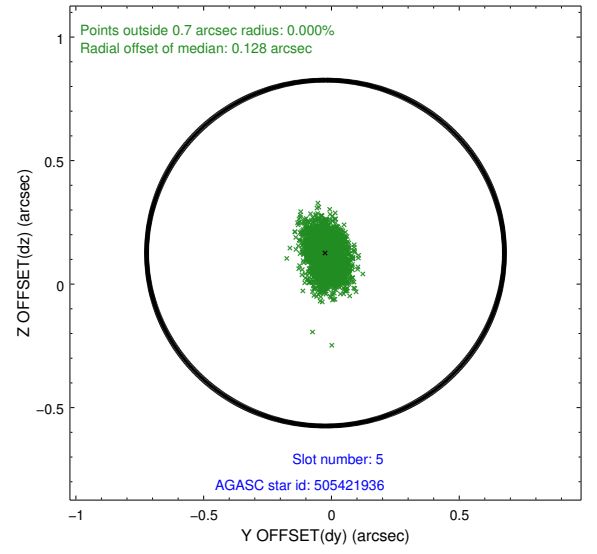
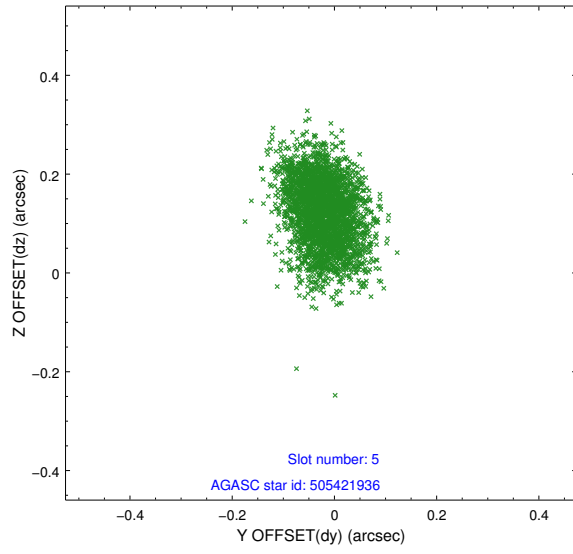
2.4.1 Slot 3



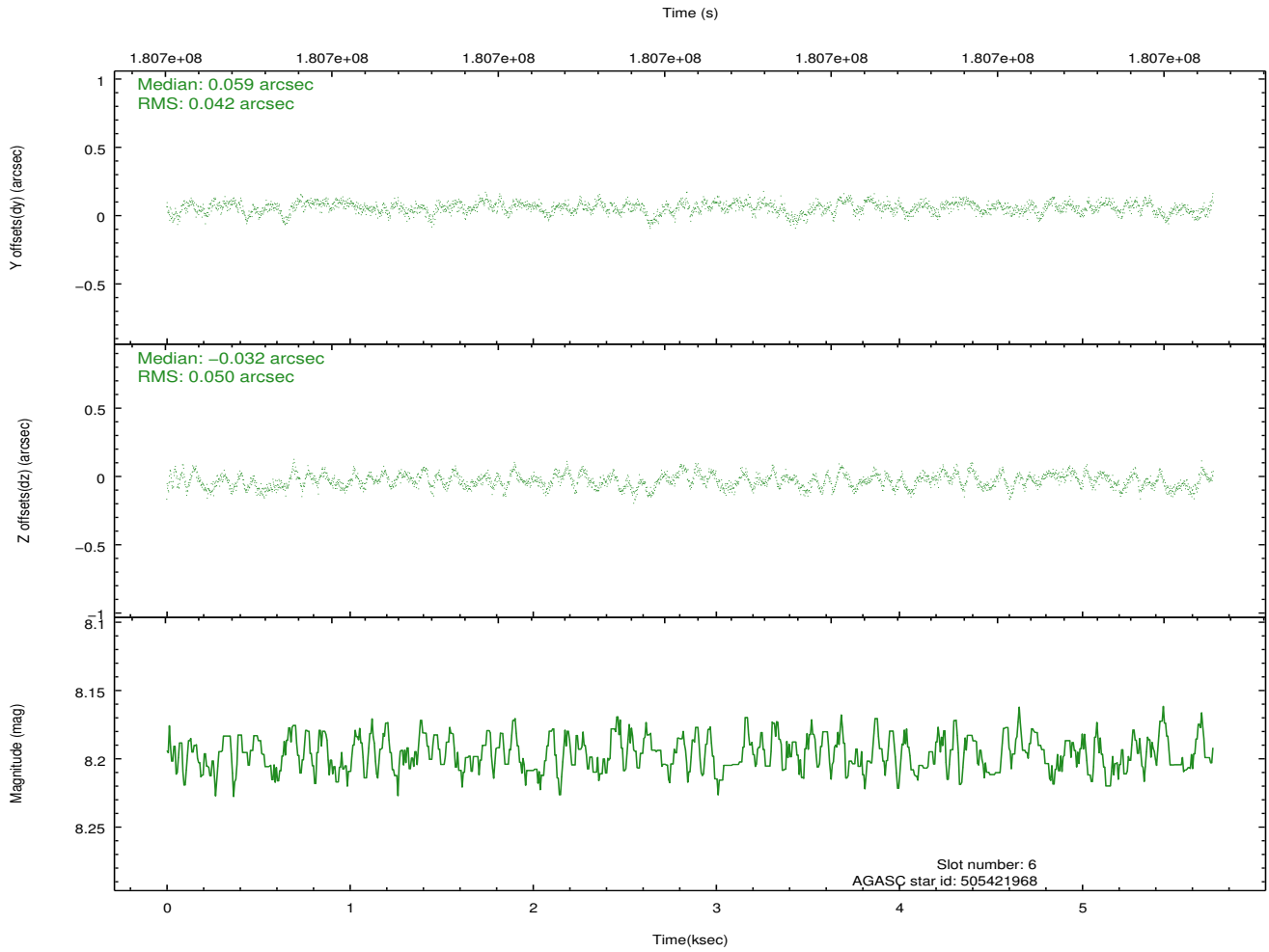
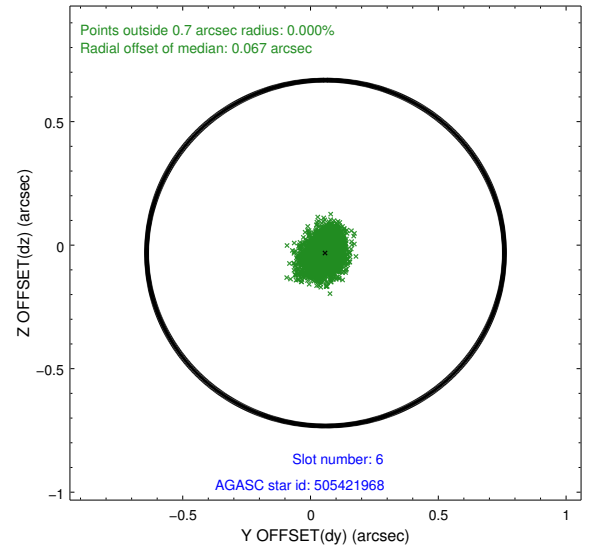
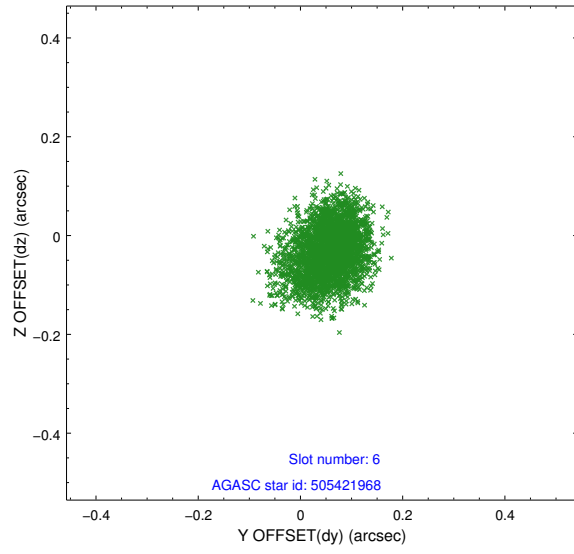
2.4.2 Slot 4



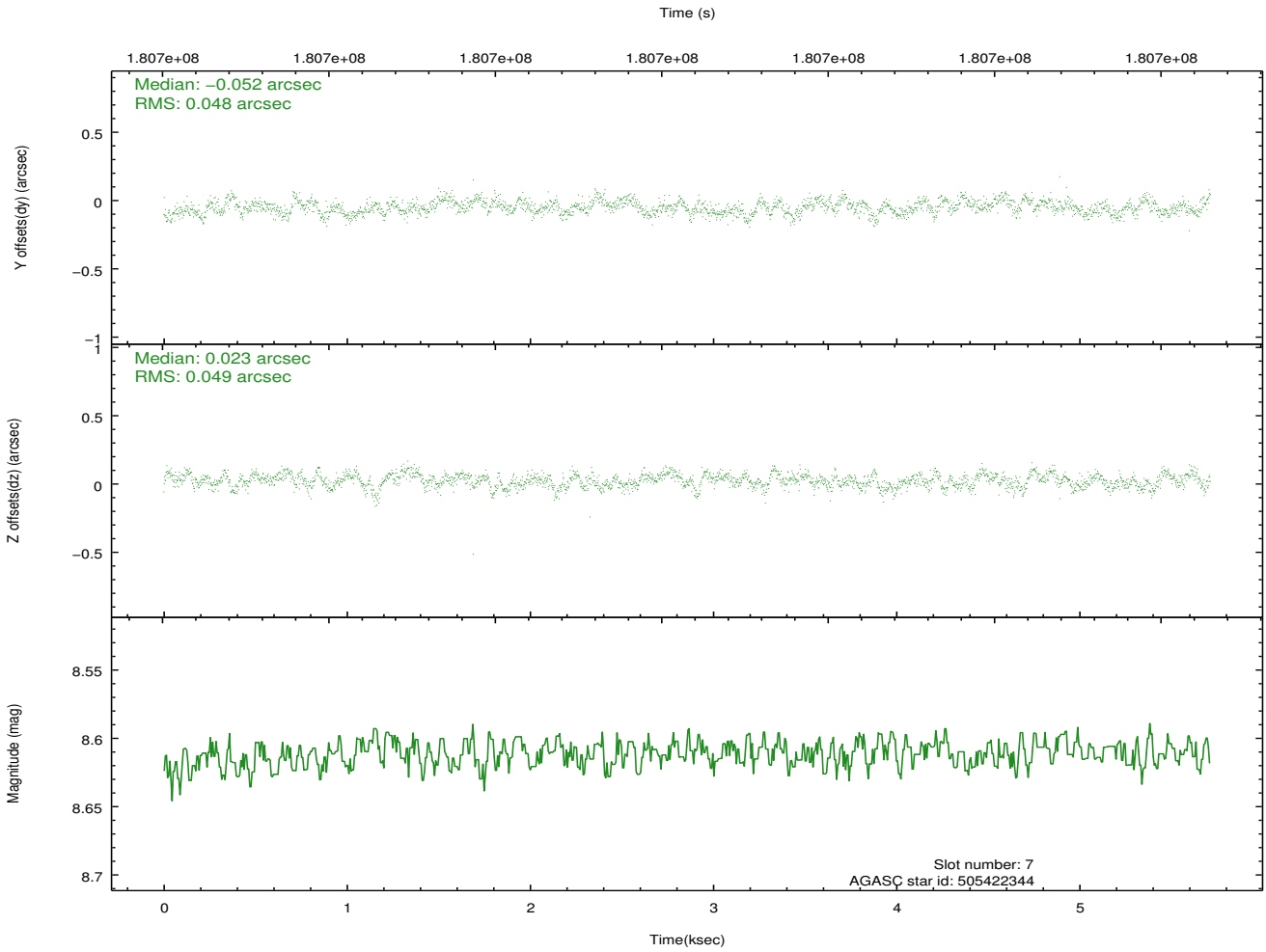
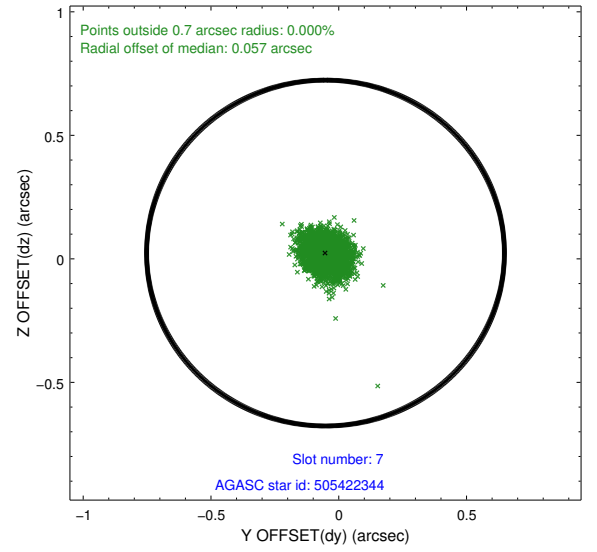
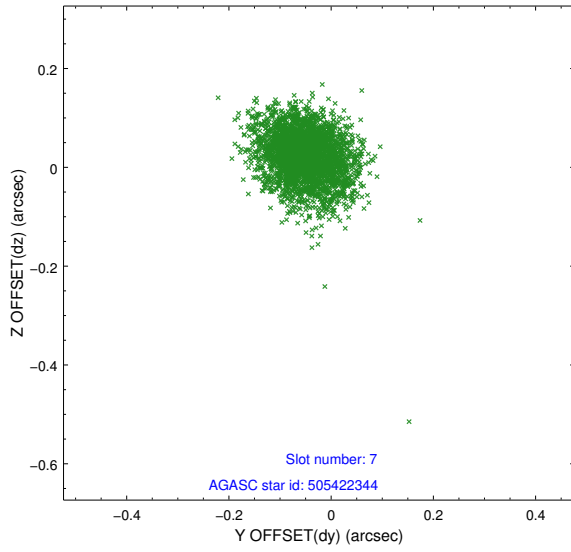
2.4.3 Slot 5



2.4.4 Slot 6

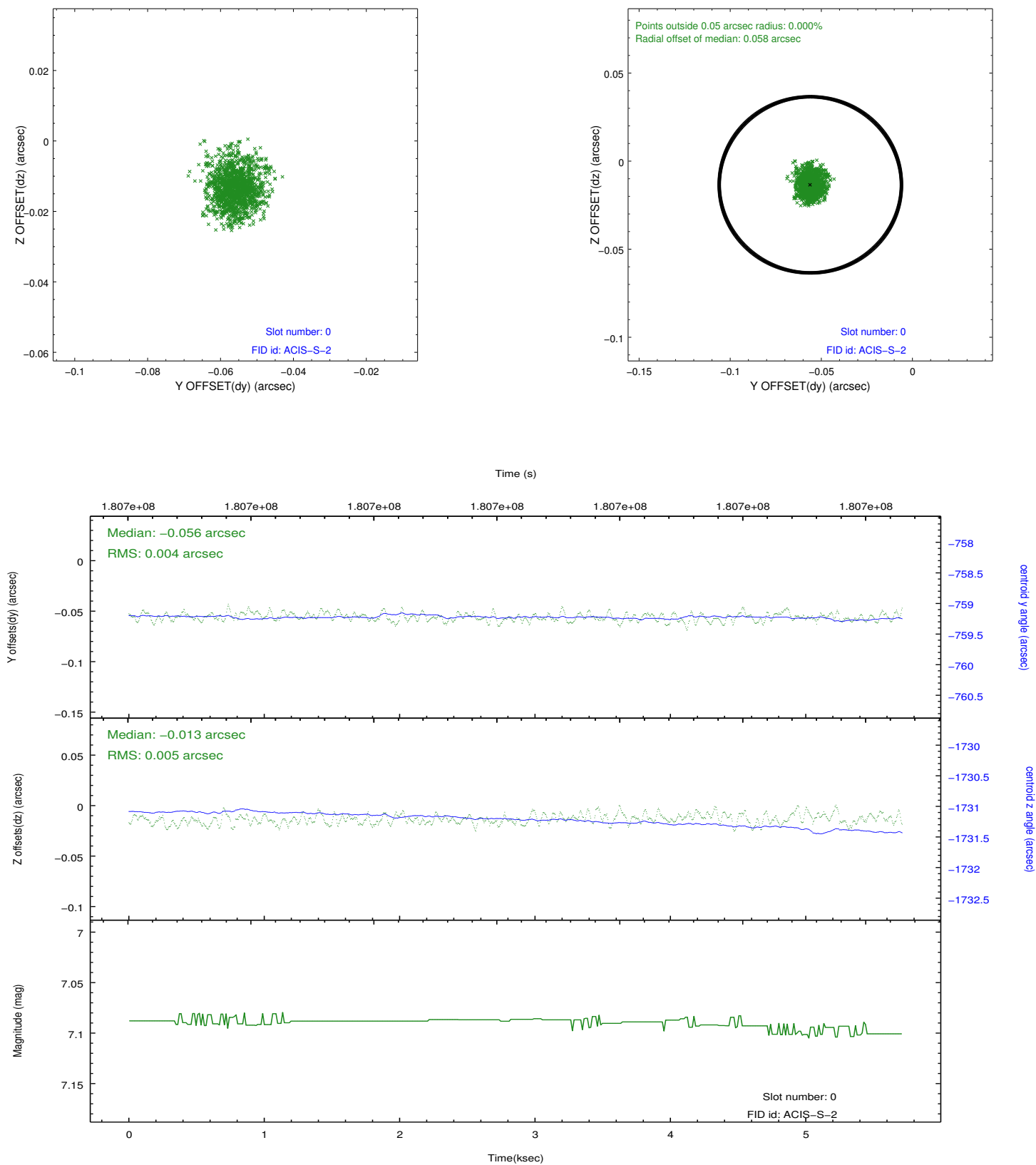


2.4.5 Slot 7

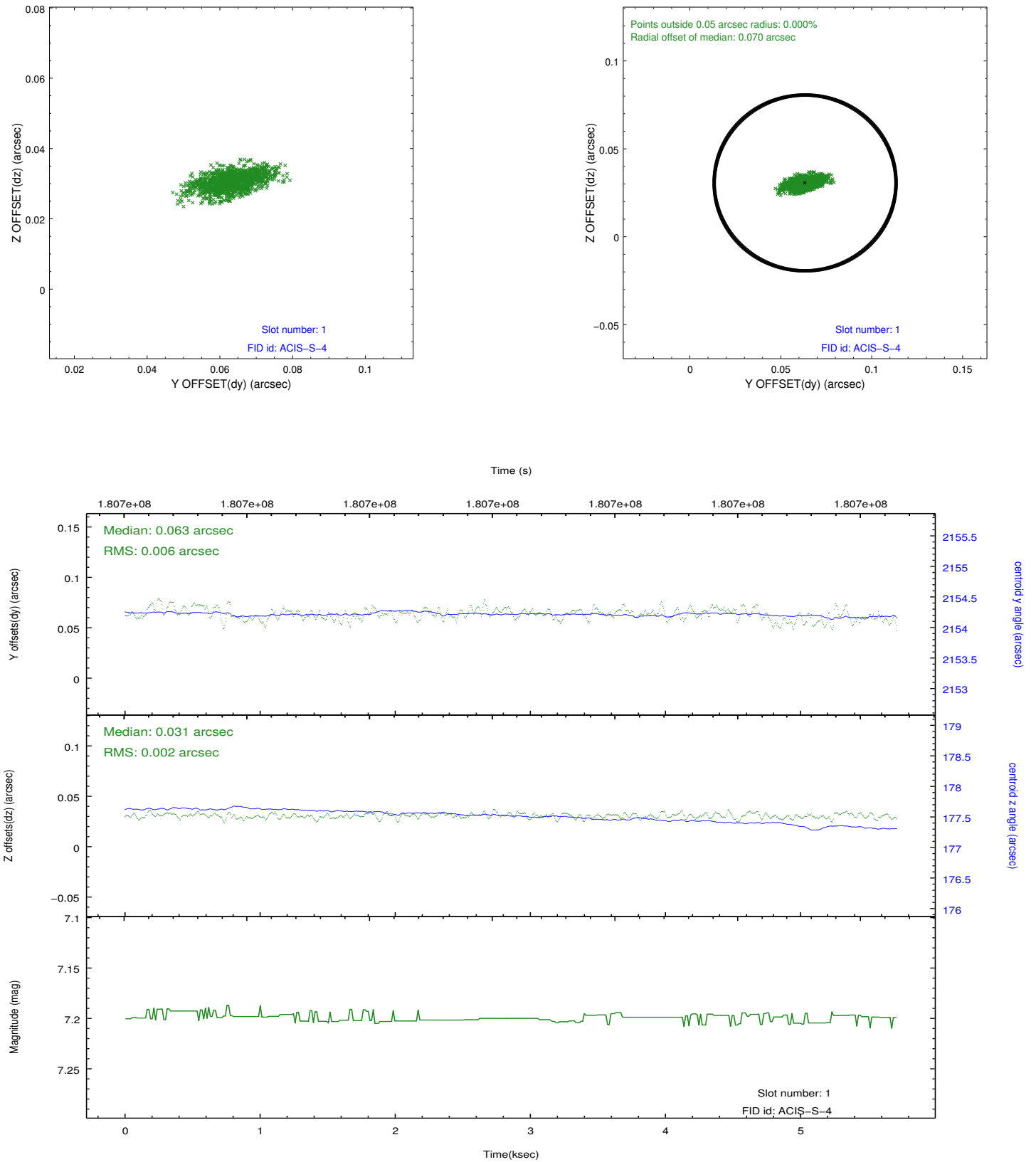


2.5 FID Slots

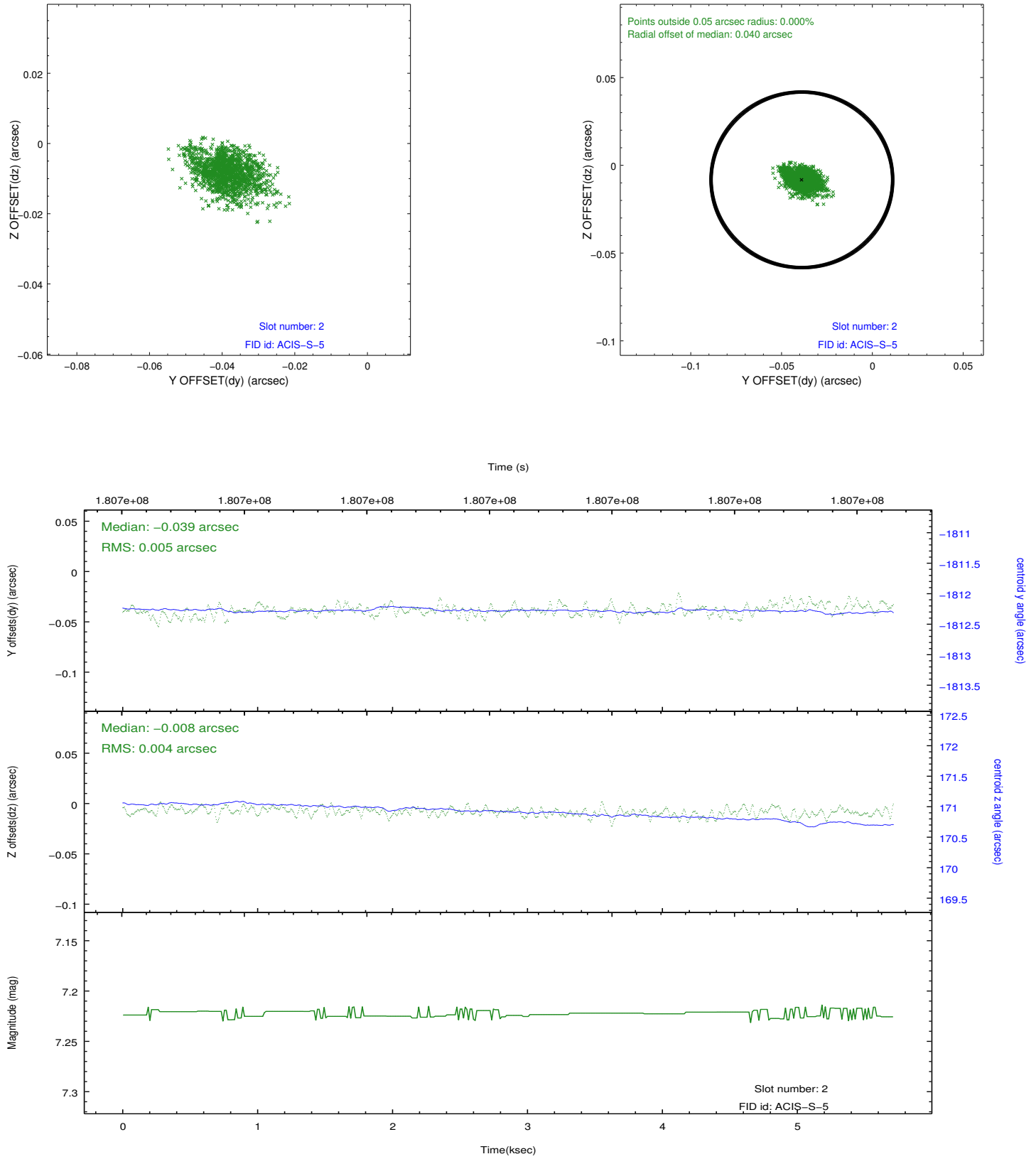
2.5.1 Slot 0



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)	2012.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.513

A.2 Comments