

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3031 - L2 Version 3
Chandra X-Ray Center

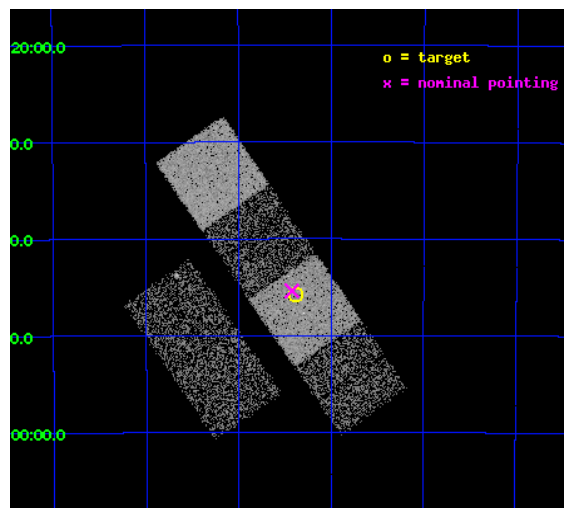
L2 Processing Date : Oct 14 2012

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

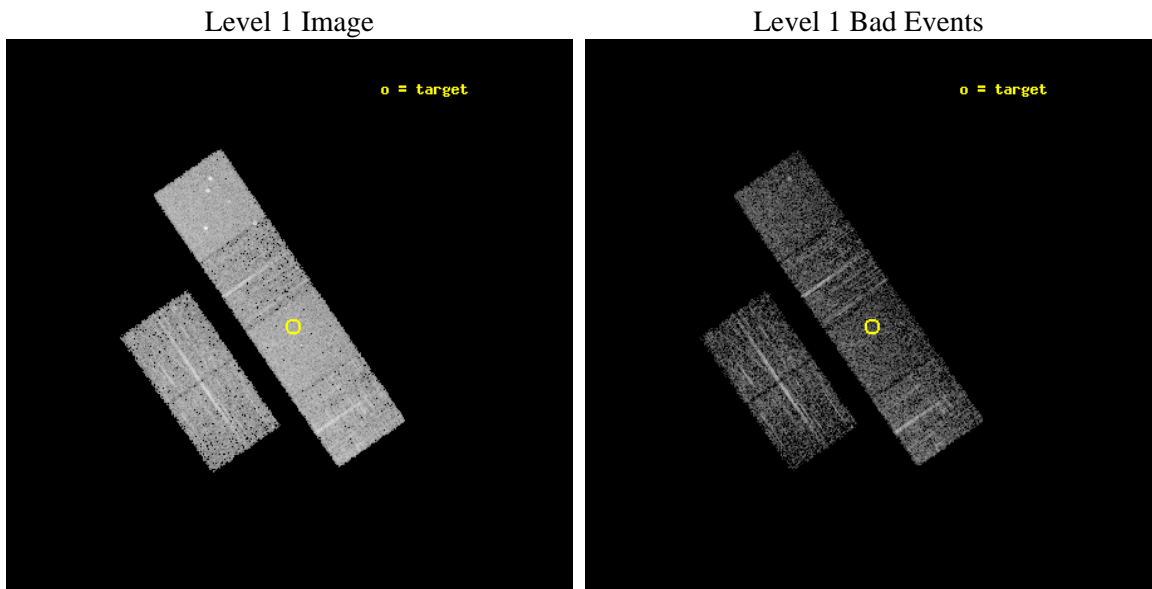
seq_num	700470	Sequence number
obs_id	3031	Observation id
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES	Proposal title
observer	Prof. William Brandt	Principal investigator
object	BR B0305-4957	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	46.845417	Observer's specified target RA [deg]
dec_targ	-49.763333	Observer's specified target Dec [deg]
ra_nom	46.855915949732	Nominal RA [deg]
dec_nom	-49.756457054365	Nominal Dec [deg]
roll_nom	55.439551415891	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3752.3362749517	Sum of GTIs [s]
livetime	3704.8219336526	Livetime [s]
ontime2	3752.377314955	Sum of GTIs [s]
ontime3	3752.2131549418	Sum of GTIs [s]
ontime5	3752.2952349484	Sum of GTIs [s]
ontime6	3752.2541949451	Sum of GTIs [s]
ontime7	3752.3362749517	Sum of GTIs [s]
ontime8	3748.9310251176	Sum of GTIs [s]
l2events	36055	Number of level 2 events



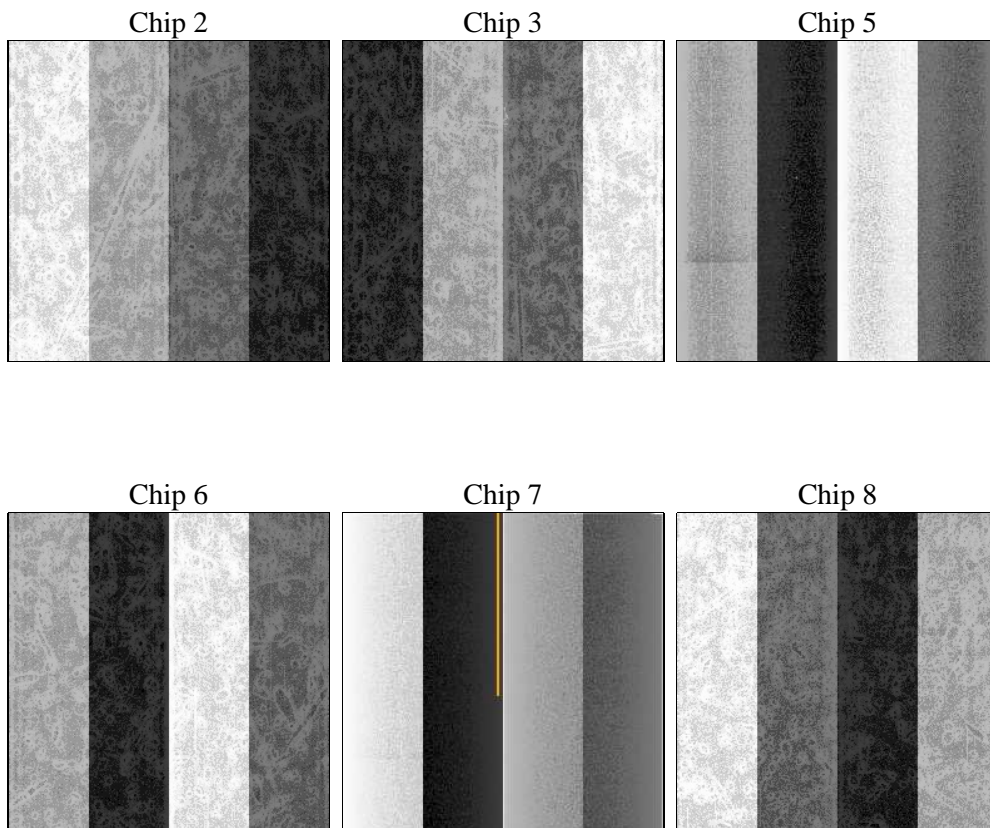
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3752.3362749517	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3752.377314955	Sum of GTIs [s]
date	2012-10-14T18:40:39	Date and time of file creation	ontime3	3752.2131549418	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3752.2952349484	Sum of GTIs [s]
			ontime6	3752.2541949451	Sum of GTIs [s]
			ontime7	3752.3362749517	Sum of GTIs [s]
			ontime8	3748.9310251176	Sum of GTIs [s]
			l1events	166561	Number of level 1 events

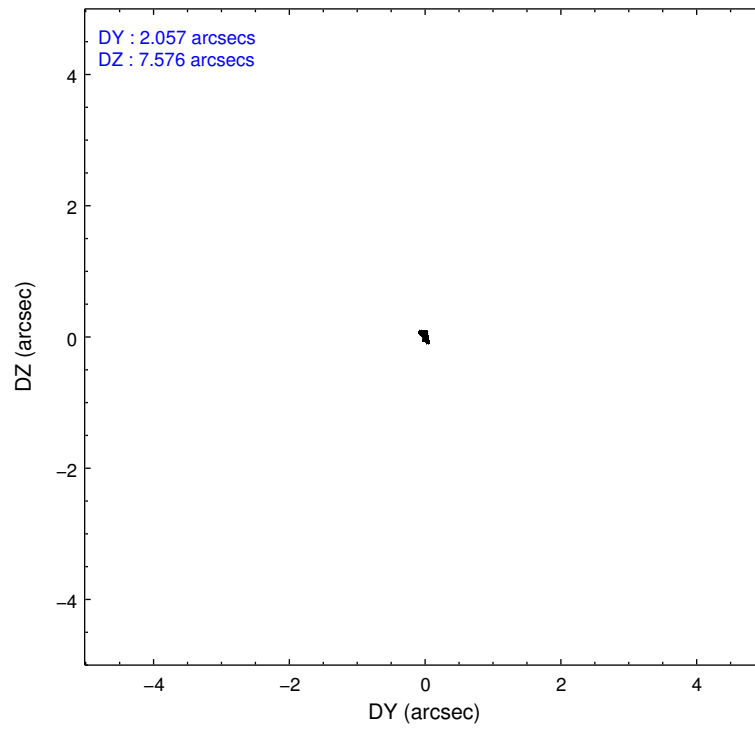
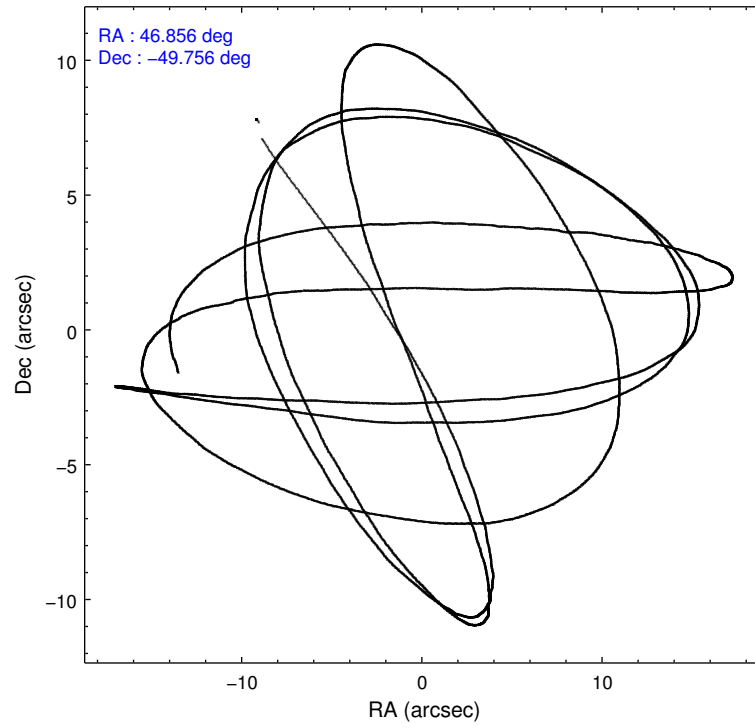
2.1.4 Events

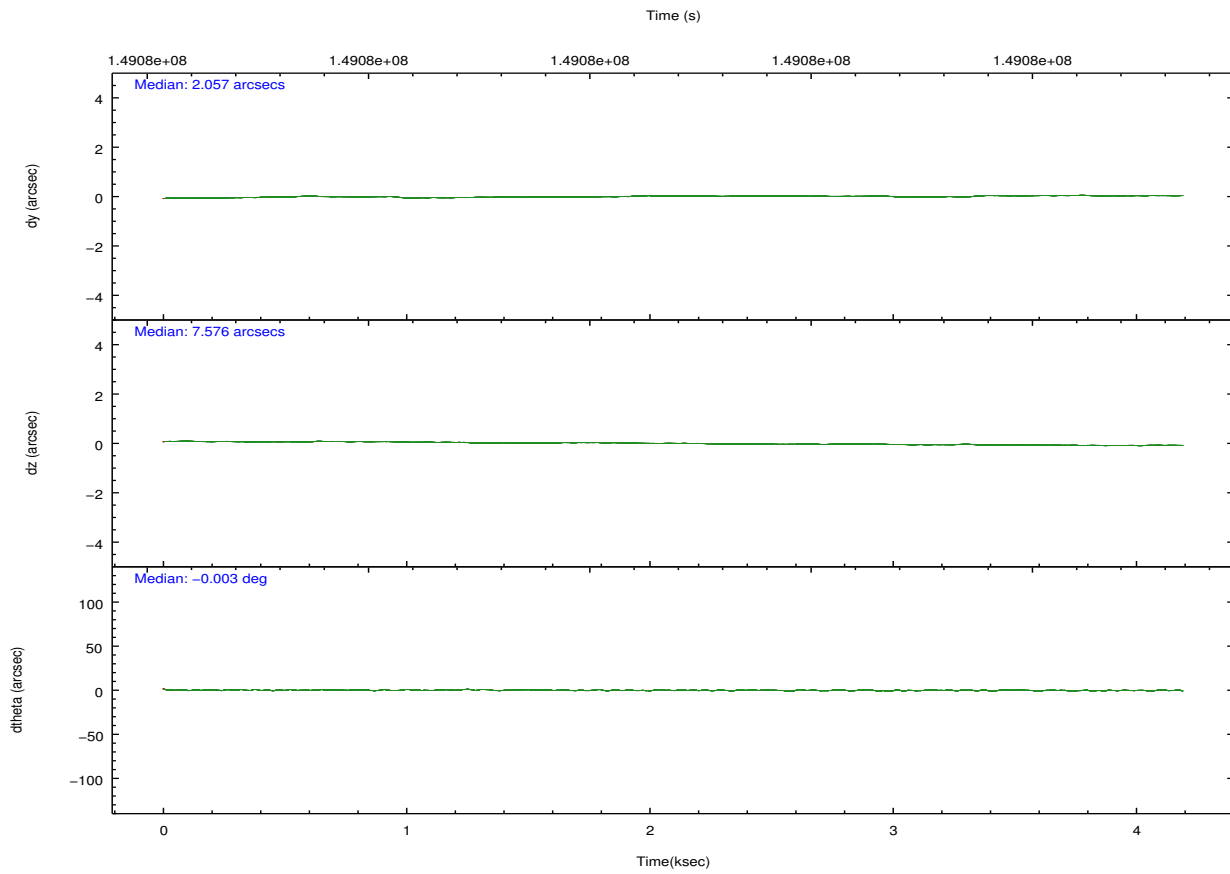
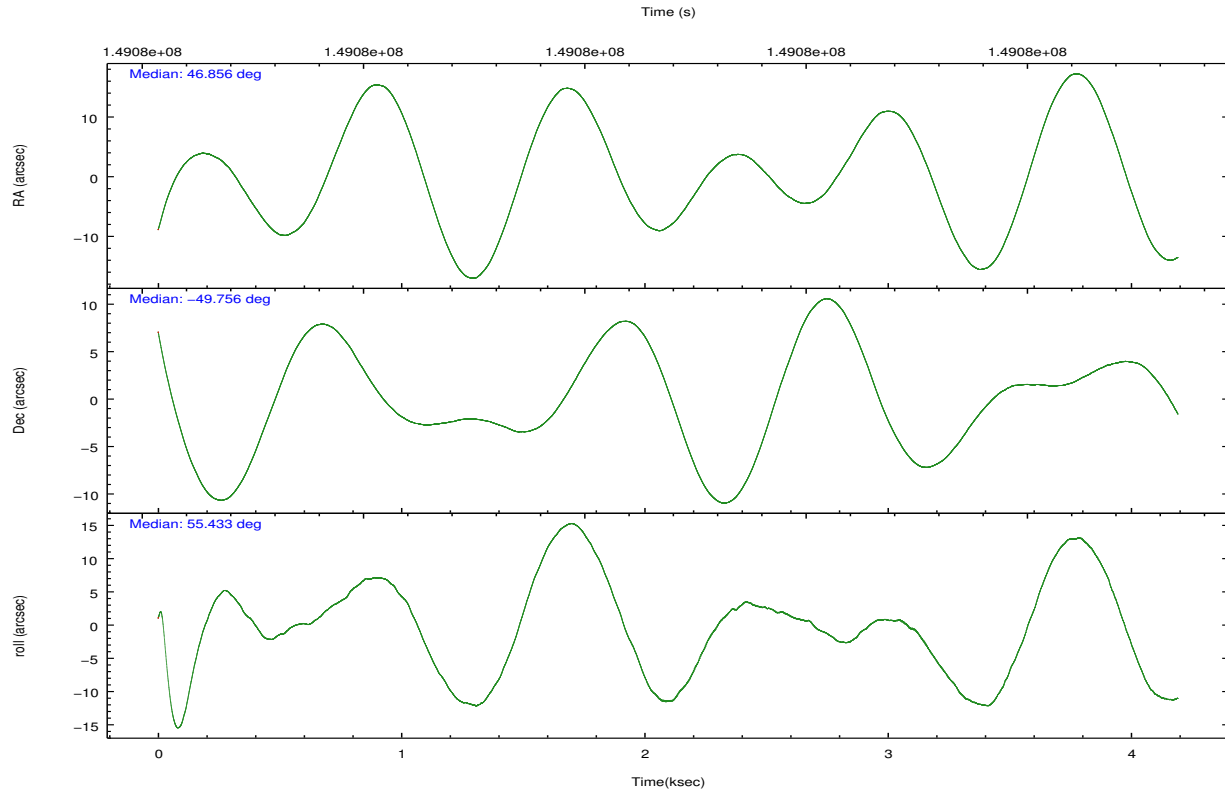
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23417	22519	34564	23007	30478	32576	grade 0 events	1262	1159	2399	1085	1199	1958
rejected events	20674	19916	18415	20366	17911	26331		5%	5%	6%	4%	3%	6%
rejected %	88%	88%	53%	88%	58%	80%	grade 1 events	19	11	130	9	29	22
								0%	0%	0%	0%	0%	0%
							grade 2 events	521	509	4447	493	2441	1257
								2%	2%	12%	2%	8%	3%
							grade 3 events	268	261	686	265	1113	729
								1%	1%	1%	1%	3%	2%
							grade 4 events	259	261	625	301	1121	636
								1%	1%	1%	1%	3%	1%
							grade 5 events	896	982	2620	1053	2910	1292
								3%	4%	7%	4%	9%	3%
							grade 6 events	434	417	8009	501	6708	1666
								1%	1%	23%	2%	22%	5%
							grade 7 events	19758	18919	15648	19300	14957	25016
								84%	84%	45%	83%	49%	76%

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	46.853156	46.85591594973209	Subarray requested	NONE	NONE
[deg] Pointing Dec	-49.783636	-49.75645705436472	Alternating exposures requested	N	N
[deg] Pointing Roll	55.280731	55.43955141589114	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	149079471.184000	149078735.53092			
Observation start date	2002-09-22T10:56:47	2002-09-22T10:45:35			
[s] Observation end time (MET)	149083471.184000	149084698.46866			
Observation end date	2002-09-22T12:03:27	2002-09-22T12:24:58			
Read mode	TIMED	TIMED			

2.3 Aspect



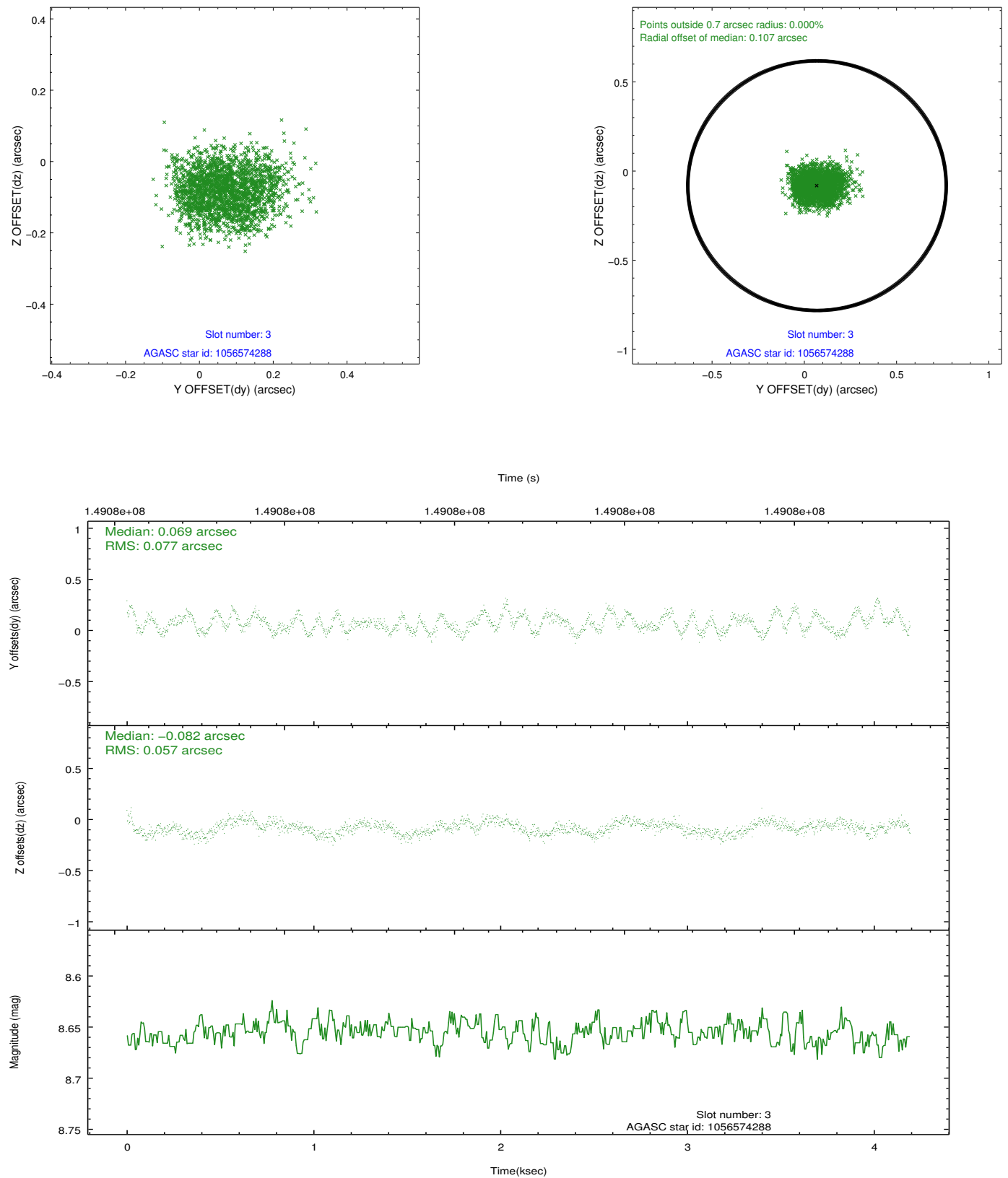


Slot Statistics

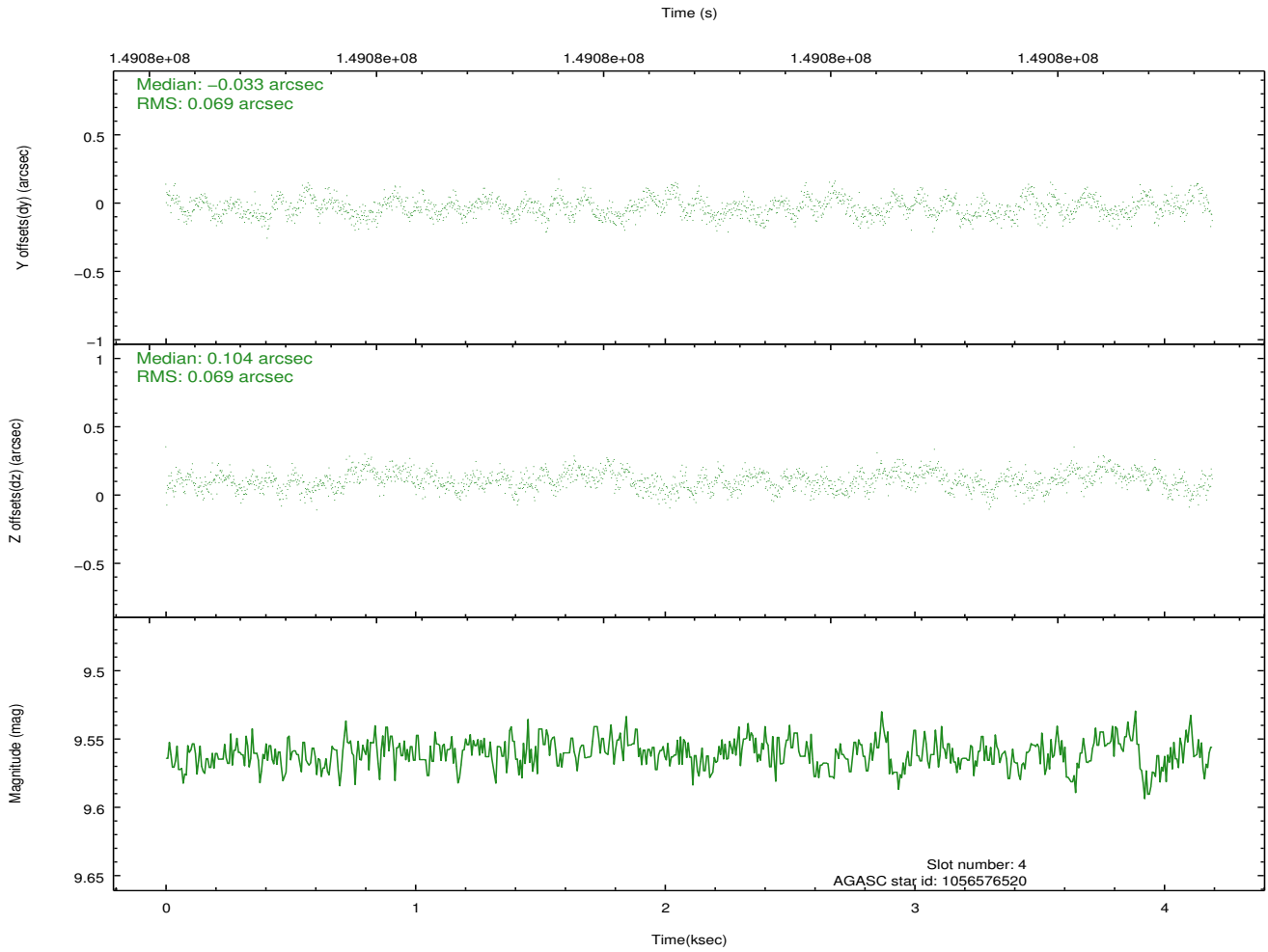
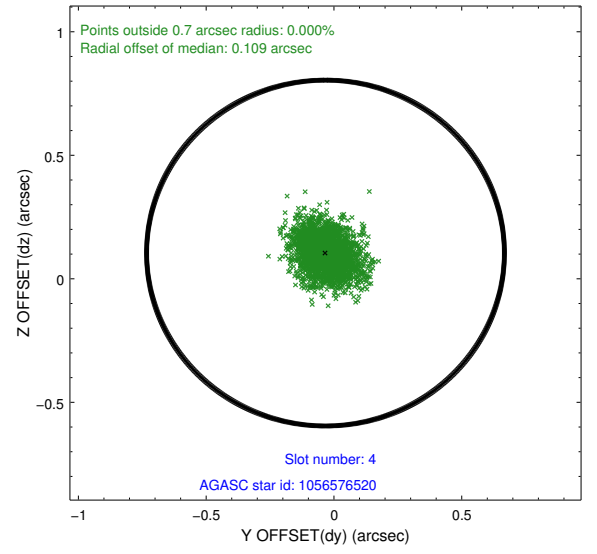
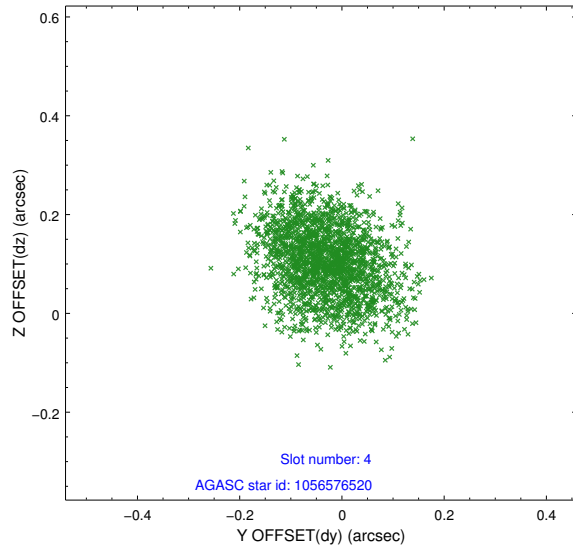
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1020	-0.019	0.004	0.007	0.012	0.000000	0.000000	-754.71	-1728.74
1	FID	ACIS-S-4	7.21	1020	-0.033	0.008	0.007	0.014	0.000000	0.000000	2157.90	178.18
2	FID	ACIS-S-5	7.24	1020	0.021	-0.003	0.007	0.012	0.000000	0.000000	-1805.58	173.57
3	GUIDE	1056574288	8.66	2041	0.069	-0.082	0.103	0.159	45.678978	-49.864822	-1809.97	2061.13
4	GUIDE	1056576520	9.56	2030	-0.033	0.104	0.105	0.167	46.462566	-49.508743	290.22	1314.62
5	GUIDE	1056578176	10.15	2041	0.002	-0.011	0.114	0.190	47.201797	-49.284572	1941.52	350.18
6	GUIDE	1056579096	10.07	2040	-0.108	-0.081	0.127	0.217	47.144507	-49.246961	1977.34	537.85
7	GUIDE	1056968512	9.99	2040	0.070	0.074	0.120	0.192	47.235655	-50.355235	-1191.79	-1894.66

2.4 Star Slots

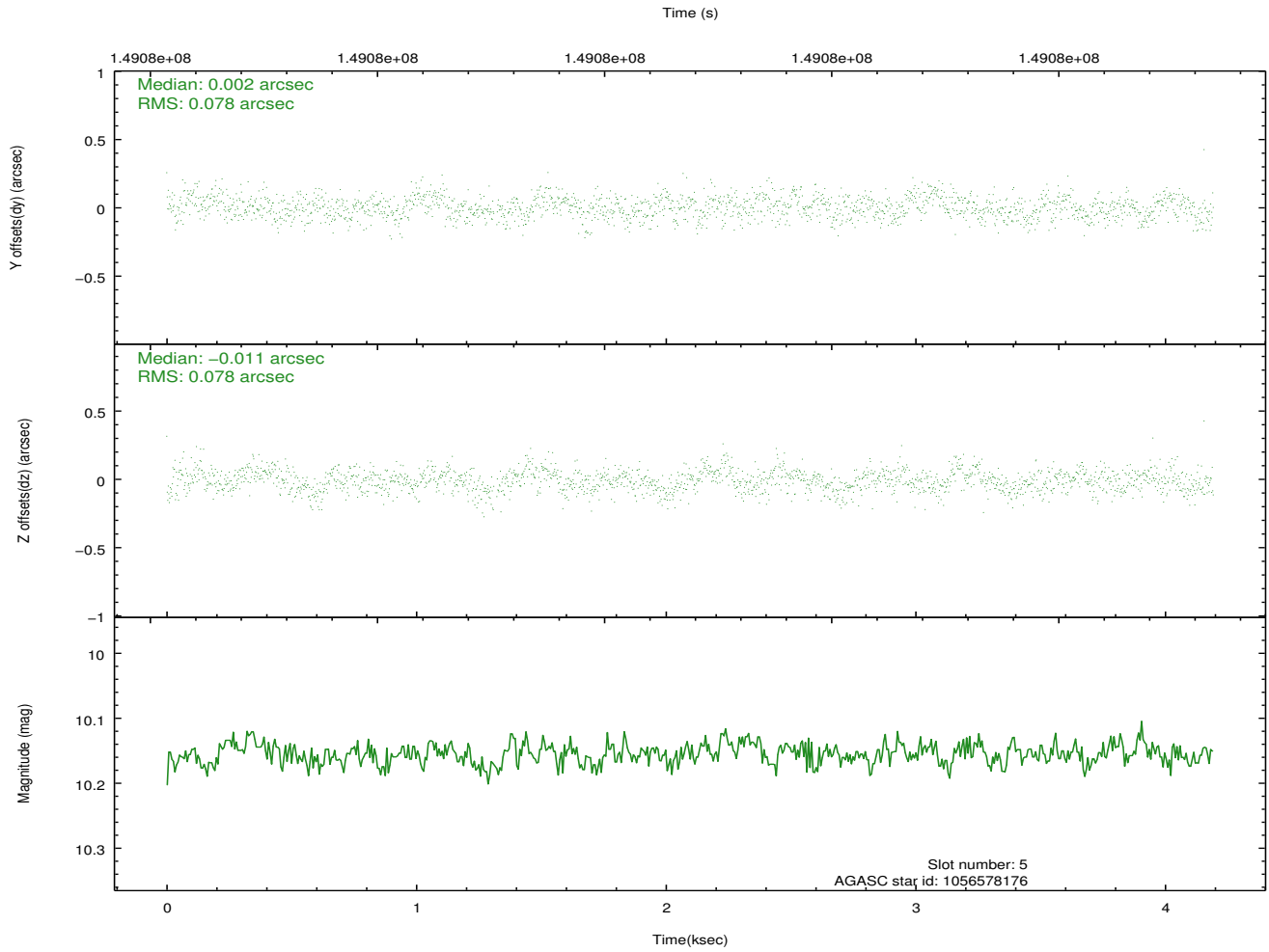
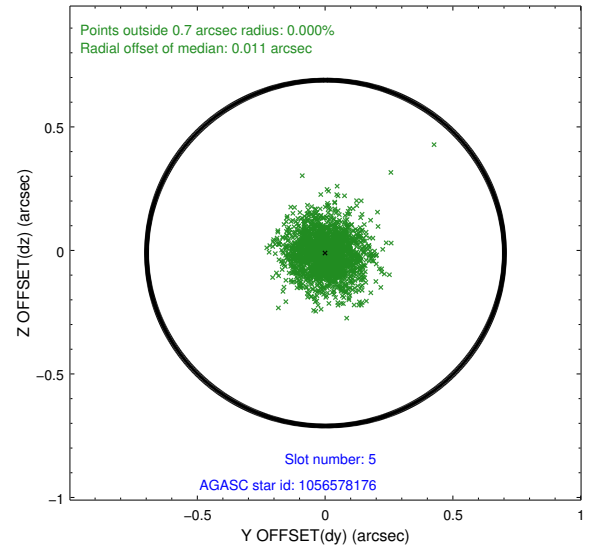
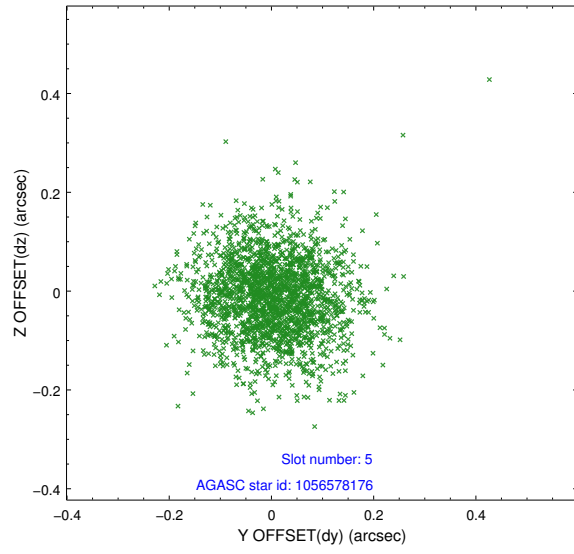
2.4.1 Slot 3



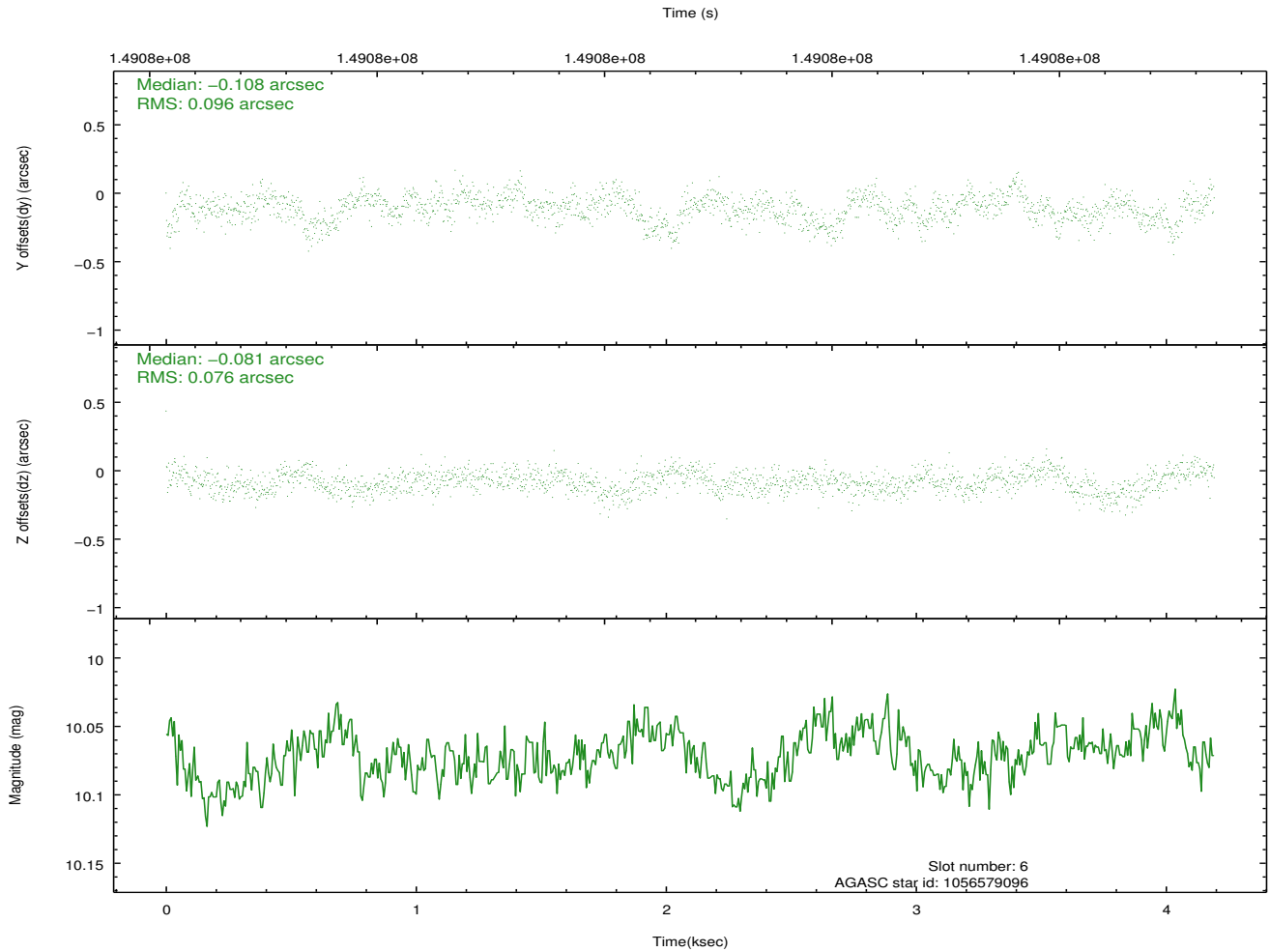
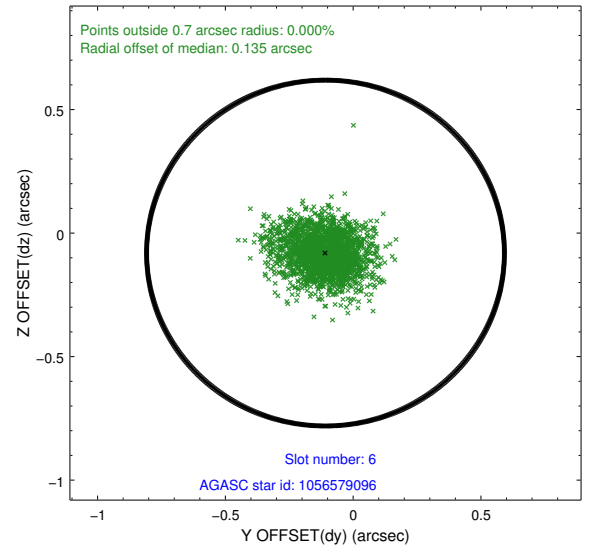
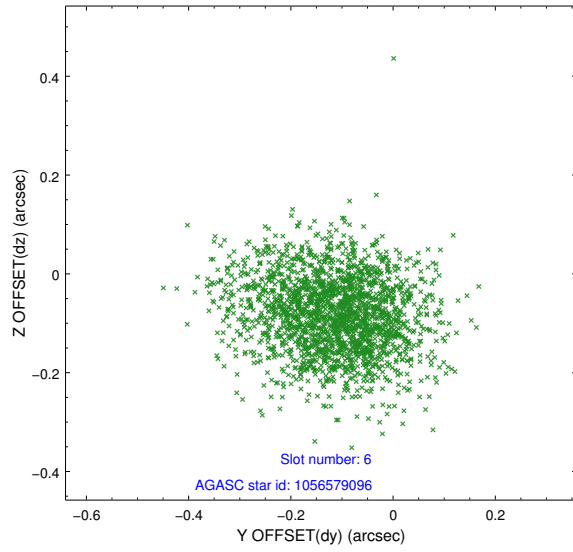
2.4.2 Slot 4



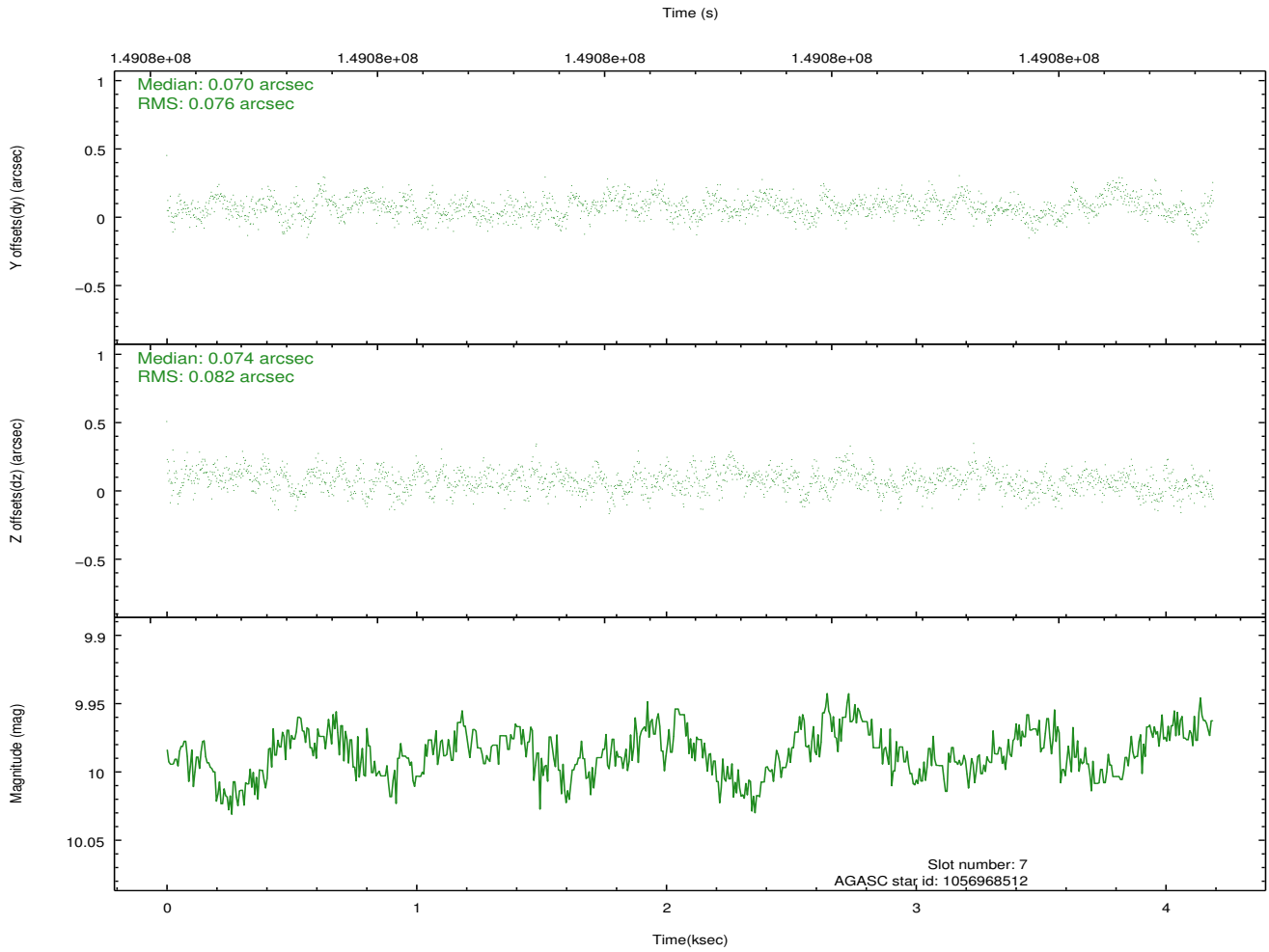
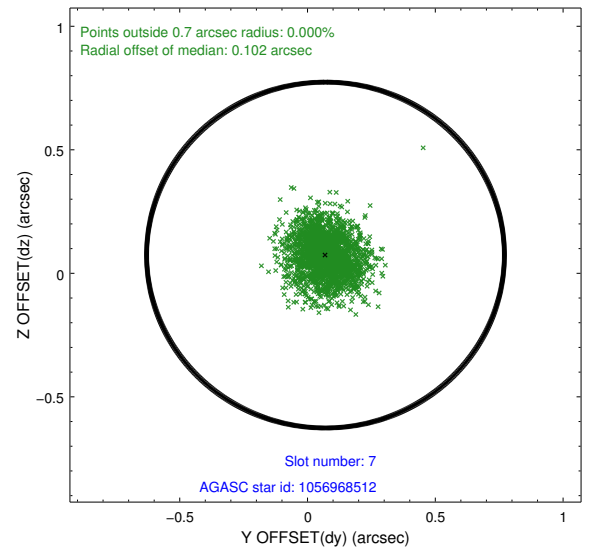
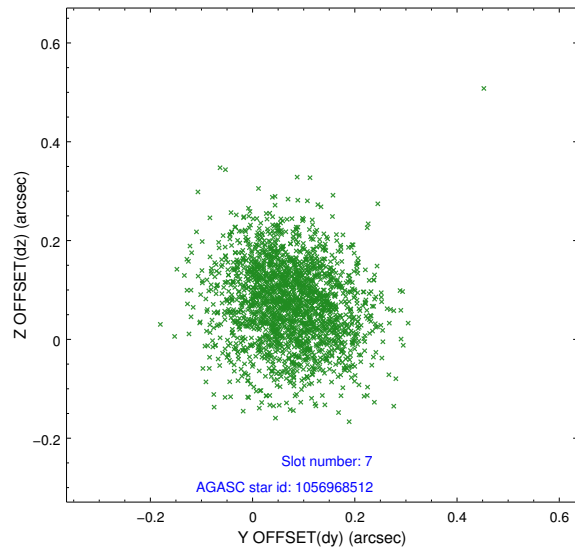
2.4.3 Slot 5



2.4.4 Slot 6

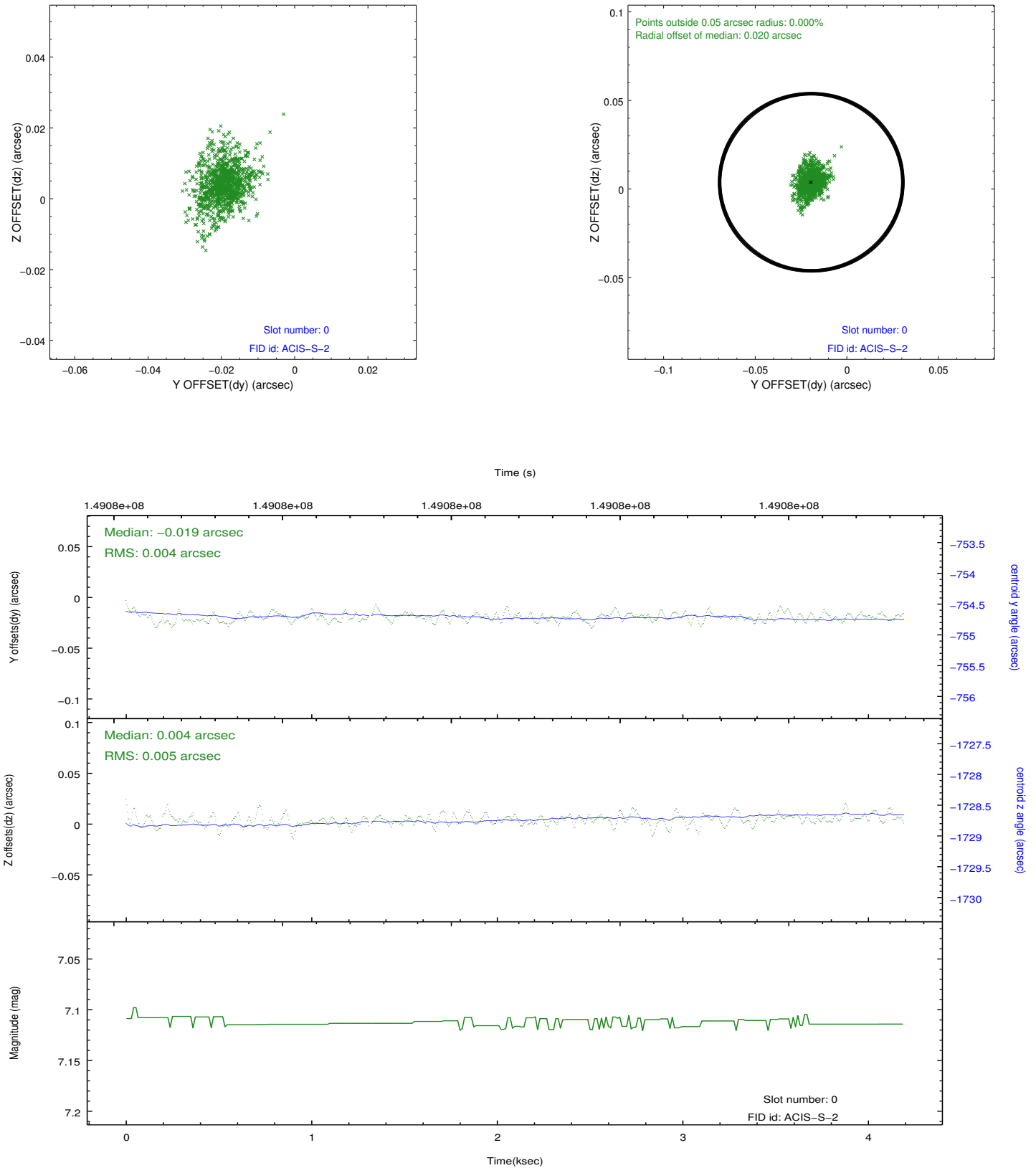


2.4.5 Slot 7

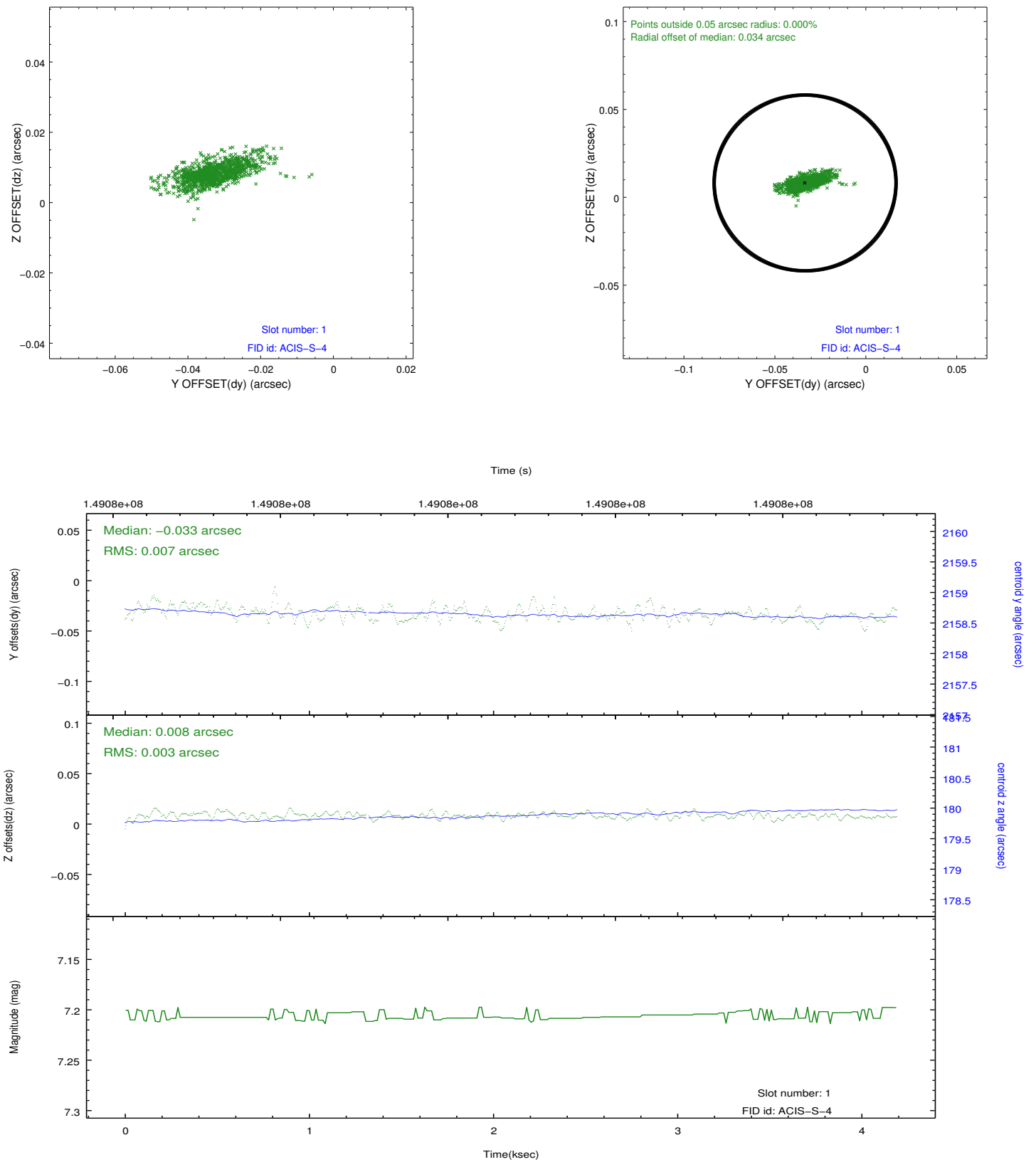


2.5 FID Slots

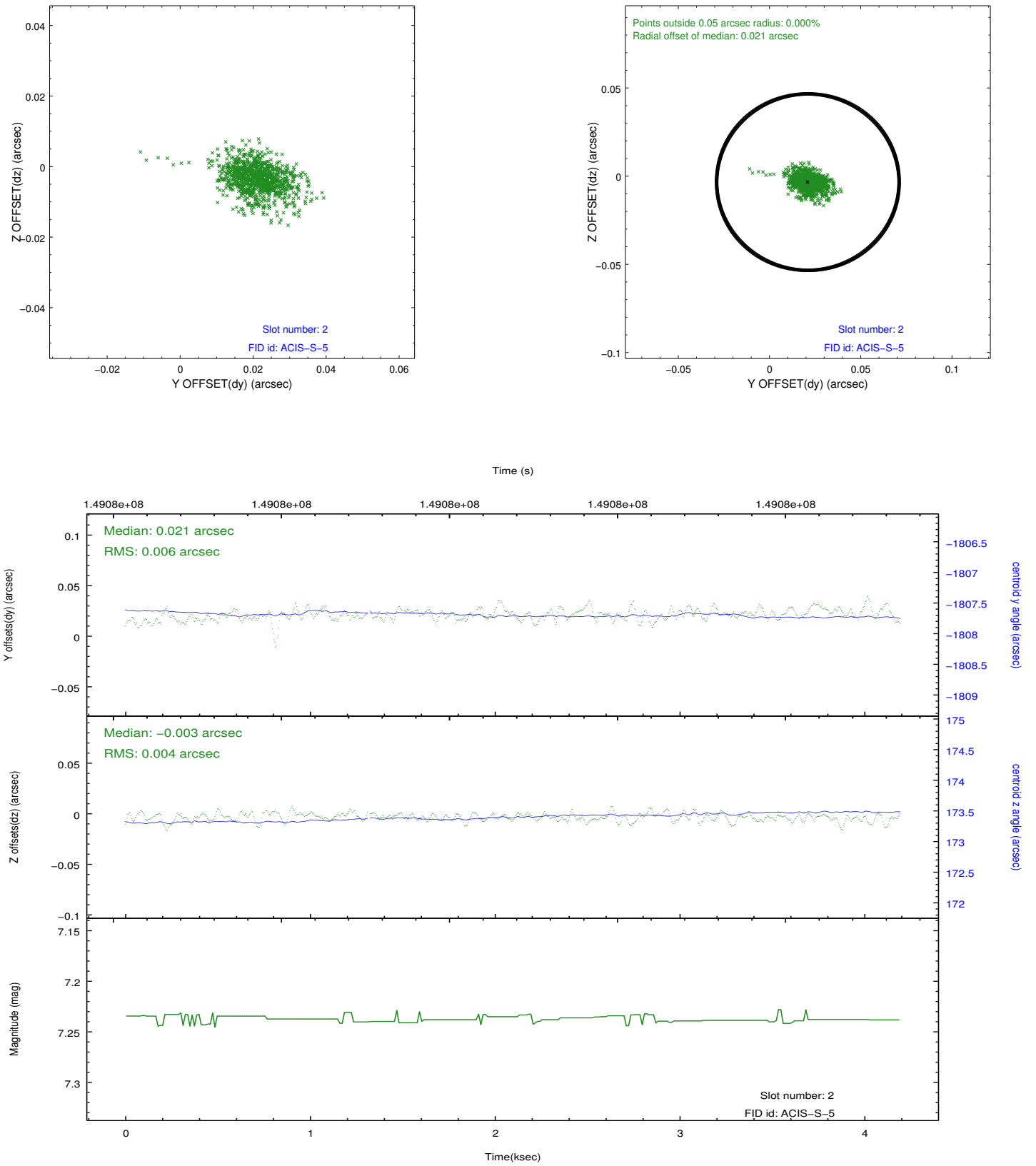
2.5.1 Slot 0



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)	2012.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.753

A.2 Comments