

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3936 - L2 Version 3
Chandra X-Ray Center

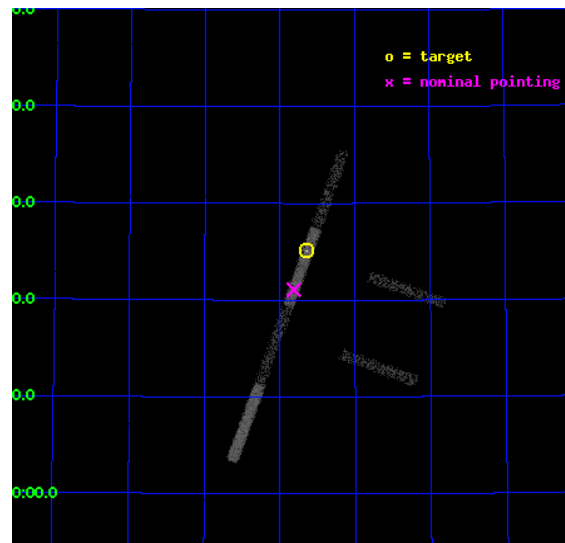
L2 Processing Date : Nov 3 2012

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1 Front

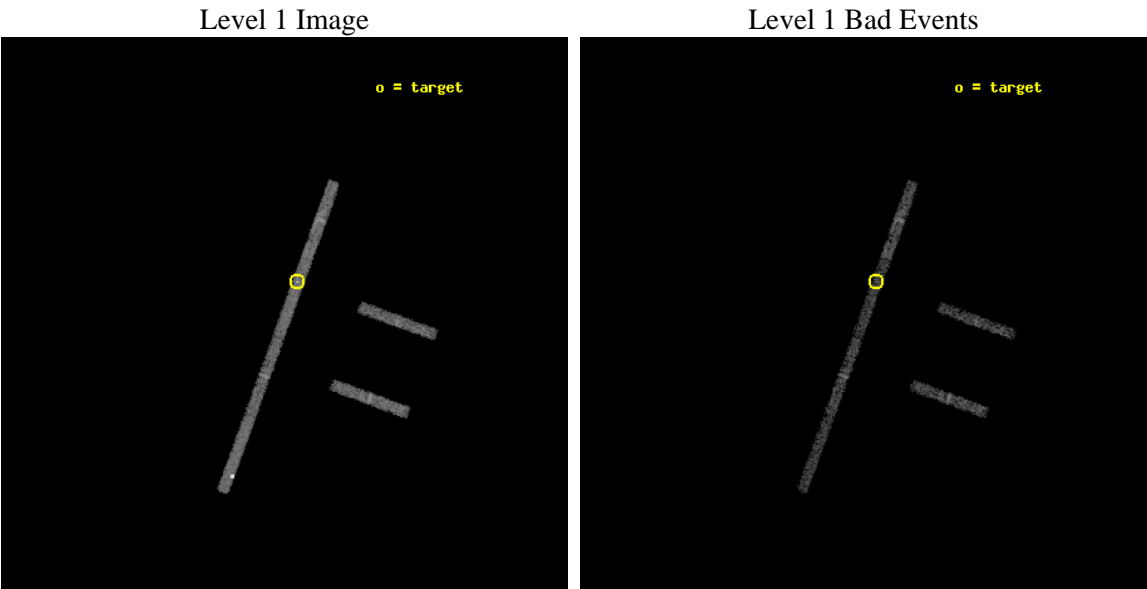
seq_num	600310	Sequence number
obs_id	3936	Observation id
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1	Proposal title
observer	Dr Timothy Roberts	Principal investigator
object	NGC 5204 X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.410833	Observer's specified target RA [deg]
dec_targ	58.418333	Observer's specified target Dec [deg]
ra_nom	202.45369505793	Nominal RA [deg]
dec_nom	58.351266730473	Nominal Dec [deg]
roll_nom	290.02696117273	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4829.9588976204	Sum of GTIs [s]
livetime	4562.4679212111	Livetime [s]
ontime2	4829.9588976204	Sum of GTIs [s]
ontime3	4829.9588976204	Sum of GTIs [s]
ontime5	4829.9588976204	Sum of GTIs [s]
ontime6	4829.9588976204	Sum of GTIs [s]
ontime7	4829.9588976204	Sum of GTIs [s]
ontime8	4829.9588976204	Sum of GTIs [s]
l2events	9703	Number of level 2 events



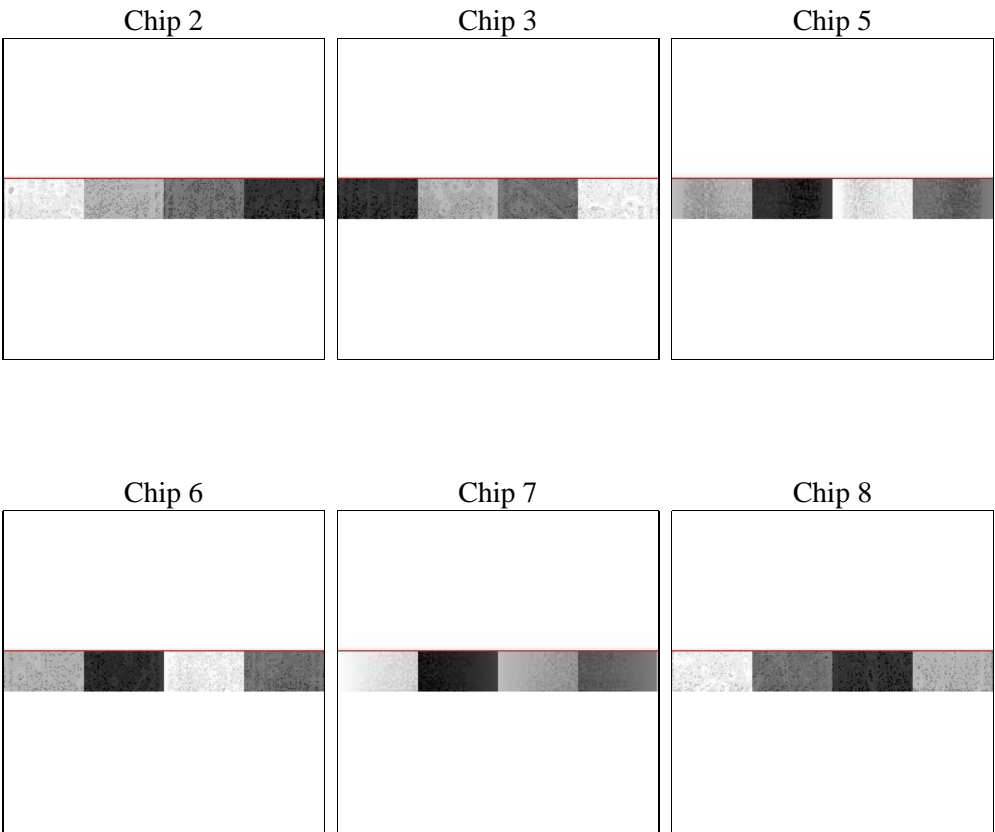
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 6



Chip 7



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4707.182000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4829.9588976204	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	4829.9588976204	Sum of GTIs [s]
date	2012-11-03T14:24:49	Date and time of file creation	ontime3	4829.9588976204	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4829.9588976204	Sum of GTIs [s]
			ontime6	4829.9588976204	Sum of GTIs [s]
			ontime7	4829.9588976204	Sum of GTIs [s]
			ontime8	4829.9588976204	Sum of GTIs [s]
			l1events	50153	Number of level 1 events

2.1.4 Events

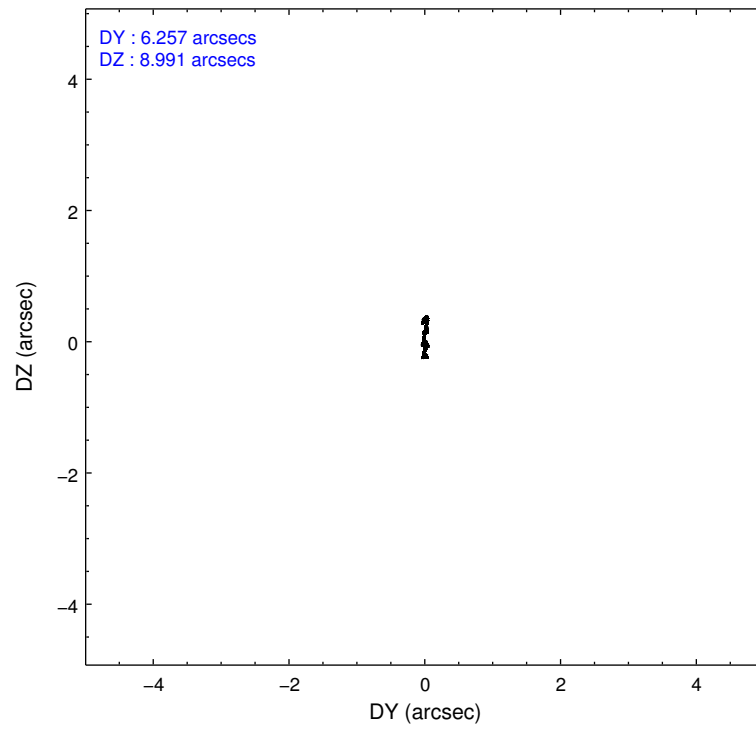
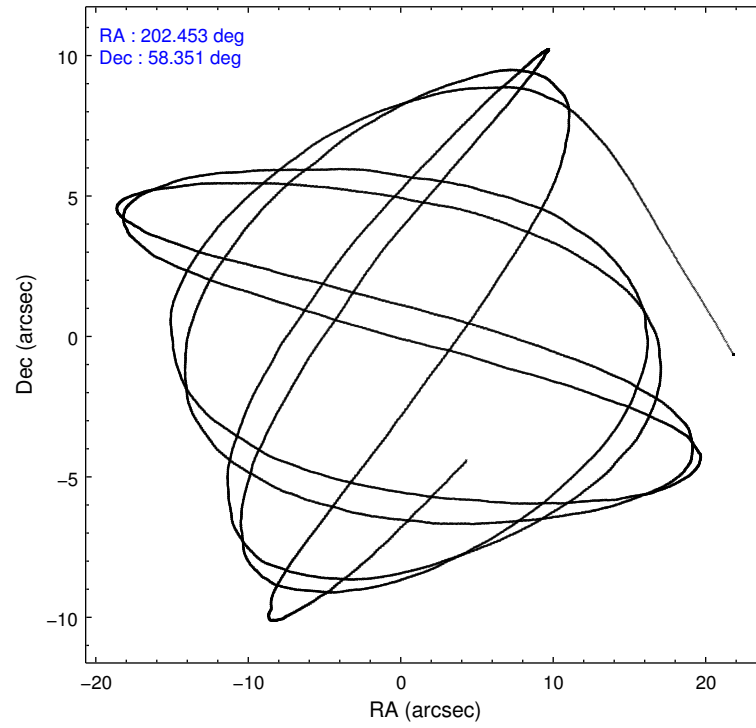
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6756	5407	14537	5886	9354	8213
rejected events	6136	4838	5189	5312	4440	6918
rejected %	90%	89%	35%	90%	47%	84%

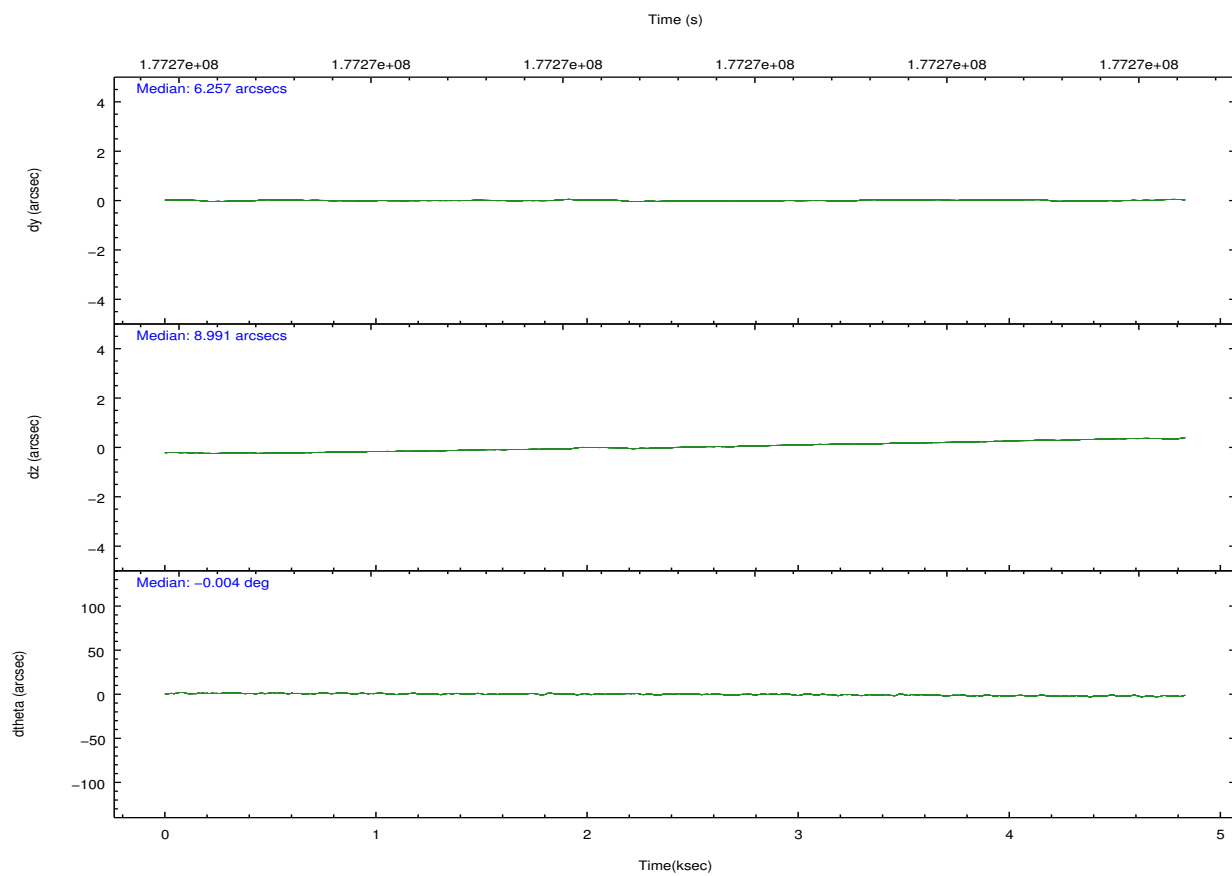
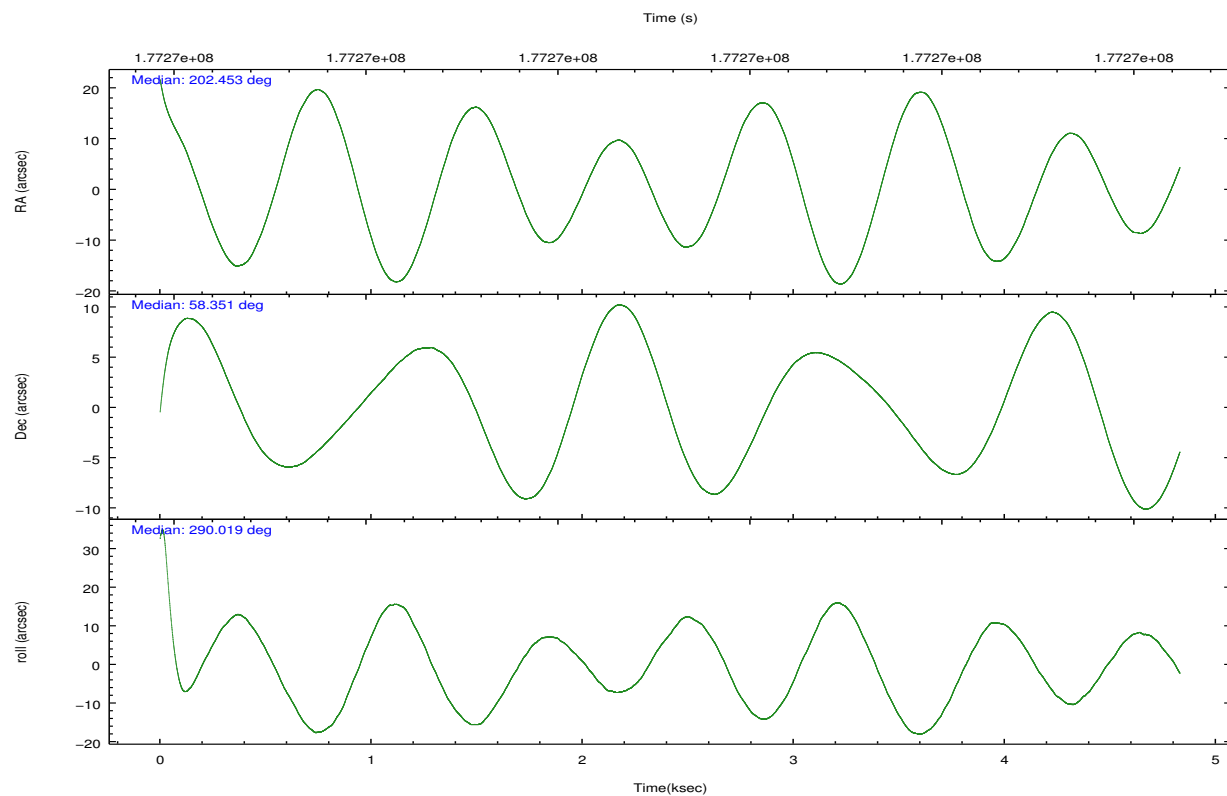
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	263	235	6331	237	1195	372
	3%	4%	43%	4%	12%	4%
grade 1 events	1	0	24	2	17	1
	0%	0%	0%	0%	0%	0%
grade 2 events	136	106	2269	114	1226	266
	2%	1%	15%	1%	13%	3%
grade 3 events	112	120	250	121	588	152
	1%	2%	1%	2%	6%	1%
grade 4 events	110	82	281	99	603	168
	1%	1%	1%	1%	6%	2%
grade 5 events	193	192	598	202	654	302
	2%	3%	4%	3%	6%	3%
grade 6 events	122	116	1724	107	1799	491
	1%	2%	11%	1%	19%	5%
grade 7 events	5819	4556	3060	5004	3272	6461
	86%	84%	21%	85%	34%	78%

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	202.413477	202.4536950579256	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	58.368496	58.35126673047304	Subarray start row	449	449
[deg] Pointing Roll	289.904428	290.0269611727297	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)	177267294.184000	177266134.72901			
Observation start date	2003-08-14T16:53:50	2003-08-14T16:35:34			
[s] Observation end time (MET)	177272001.184000	177272315.99178			
Observation end date	2003-08-14T18:12:17	2003-08-14T18:18:35			
Read mode	TIMED	TIMED			

2.3 Aspect



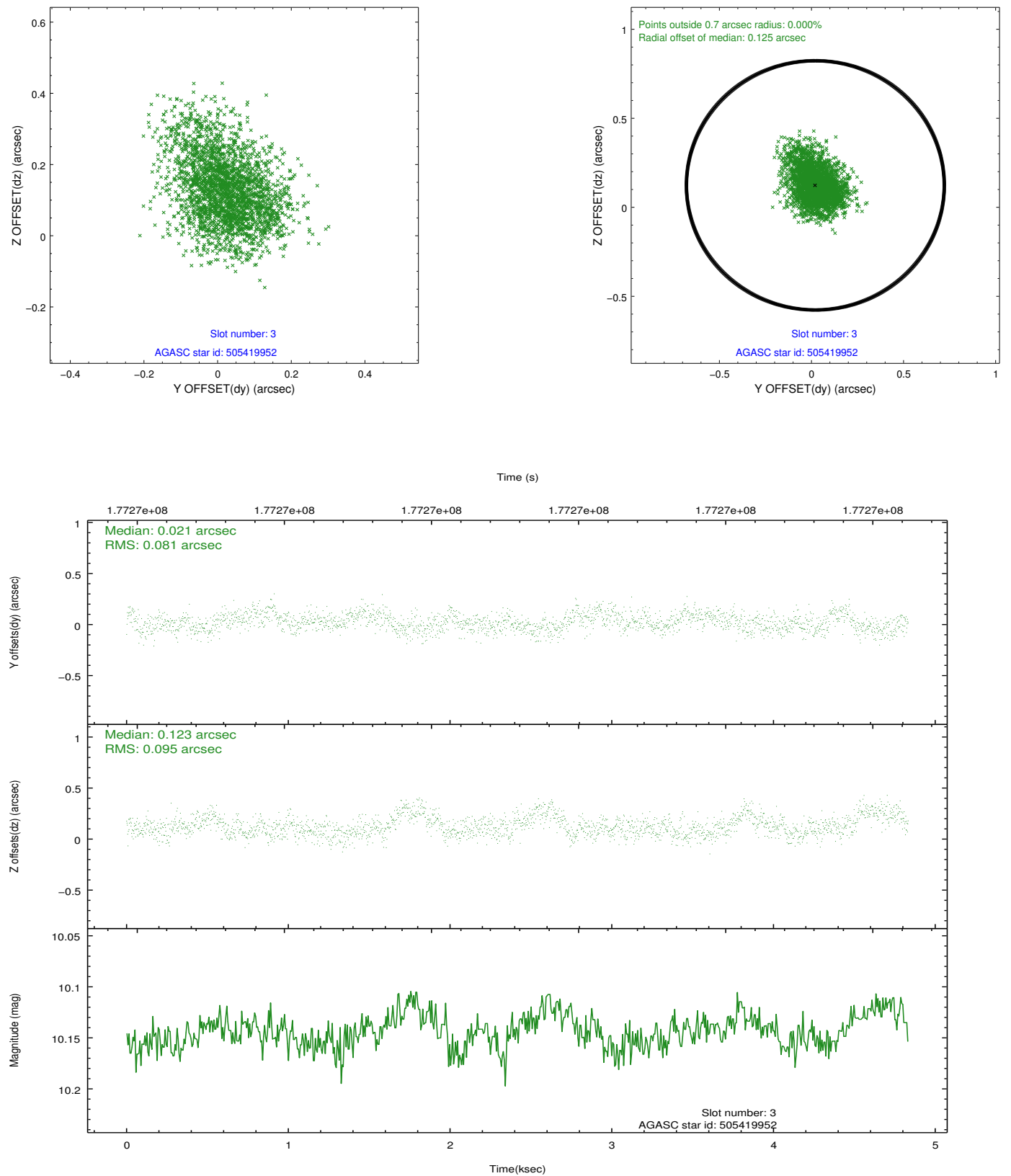


Slot Statistics

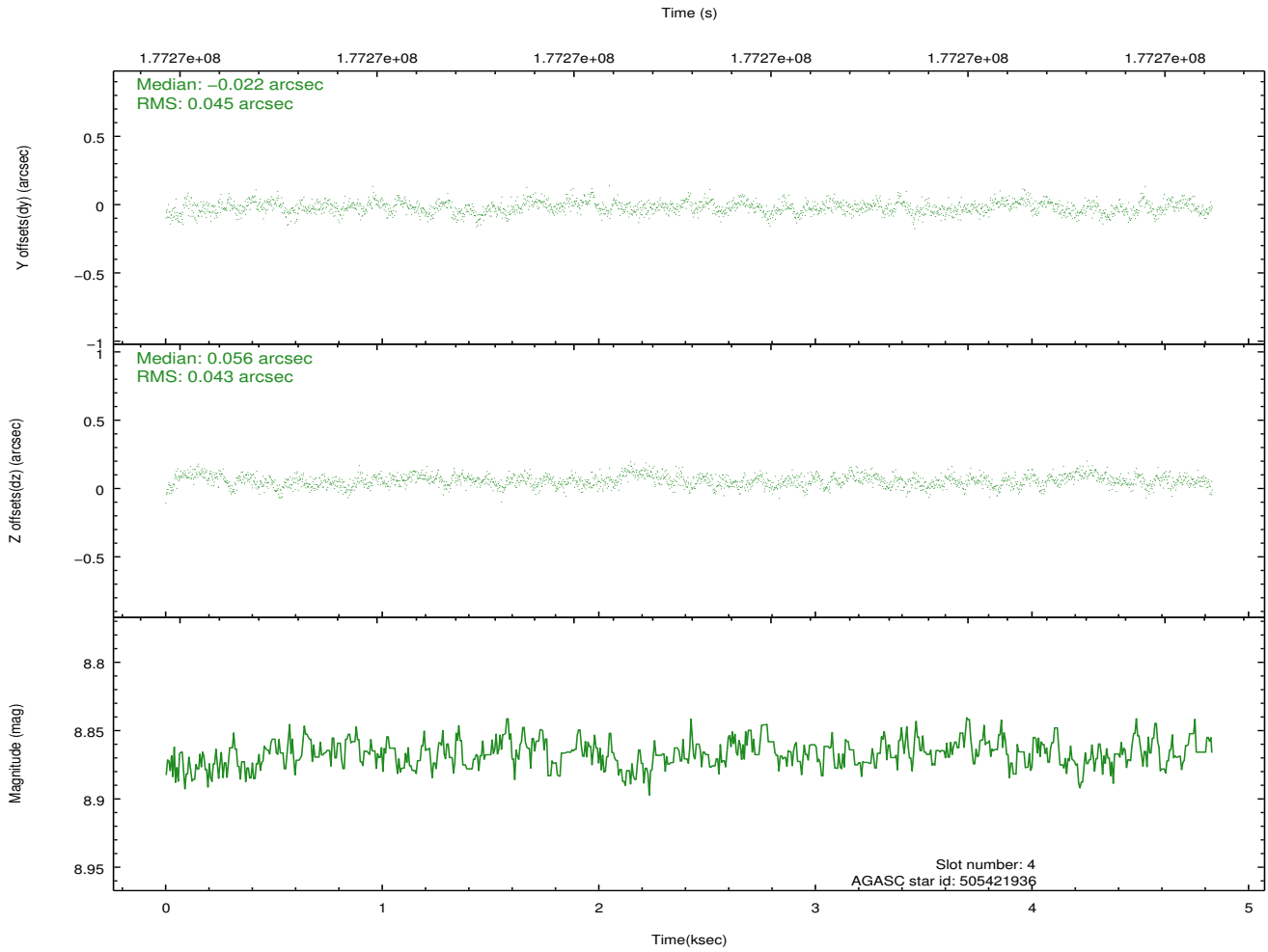
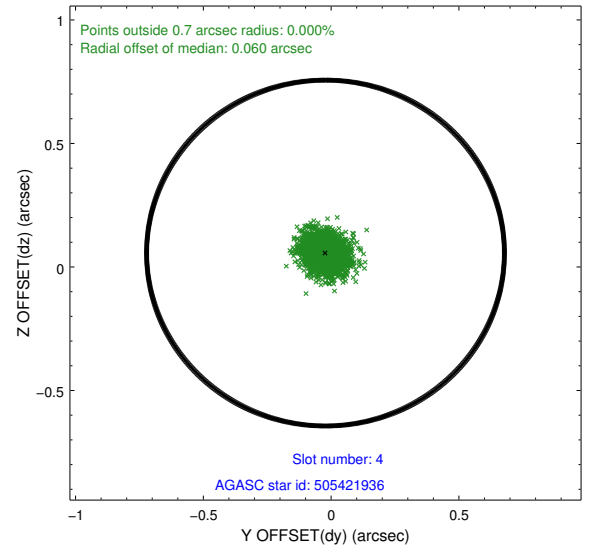
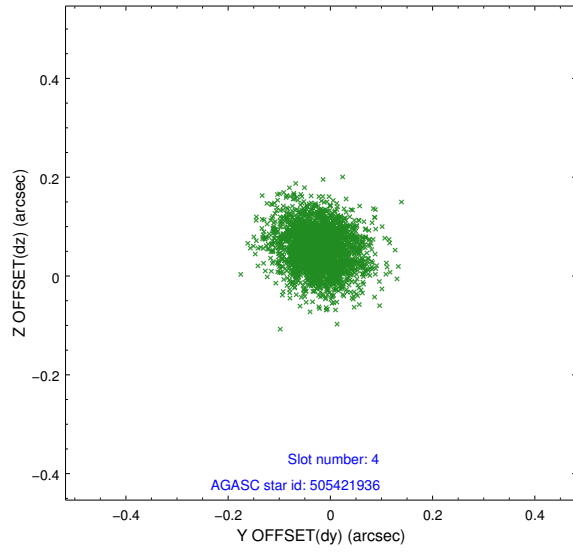
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.20	1179	0.051	0.017	0.006	0.010	0.000000	0.000000	2154.41	178.43
1	FID	ACIS-S-5	7.23	1178	-0.071	0.015	0.006	0.011	0.000000	0.000000	-1810.27	172.06
2	FID	ACIS-S-6	7.35	1178	-0.008	-0.018	0.008	0.013	0.000000	0.000000	401.25	815.75
3	GUIDE	505419952	10.14	2355	0.021	0.123	0.131	0.218	201.880700	58.804366	-1816.94	-398.40
4	GUIDE	505421936	8.87	2354	-0.022	0.056	0.067	0.109	201.854843	57.887820	1258.69	-1592.49
5	GUIDE	505421968	8.19	2357	0.049	-0.045	0.063	0.099	202.022601	58.209270	285.59	-891.90
6	GUIDE	505418080	9.06	2357	0.001	-0.000	0.079	0.125	201.533017	58.898788	-2361.97	-886.33
7	GUIDE	505414952	10.00	2355	-0.050	-0.142	0.133	0.208	203.527988	58.651569	-264.83	2315.15

2.4 Star Slots

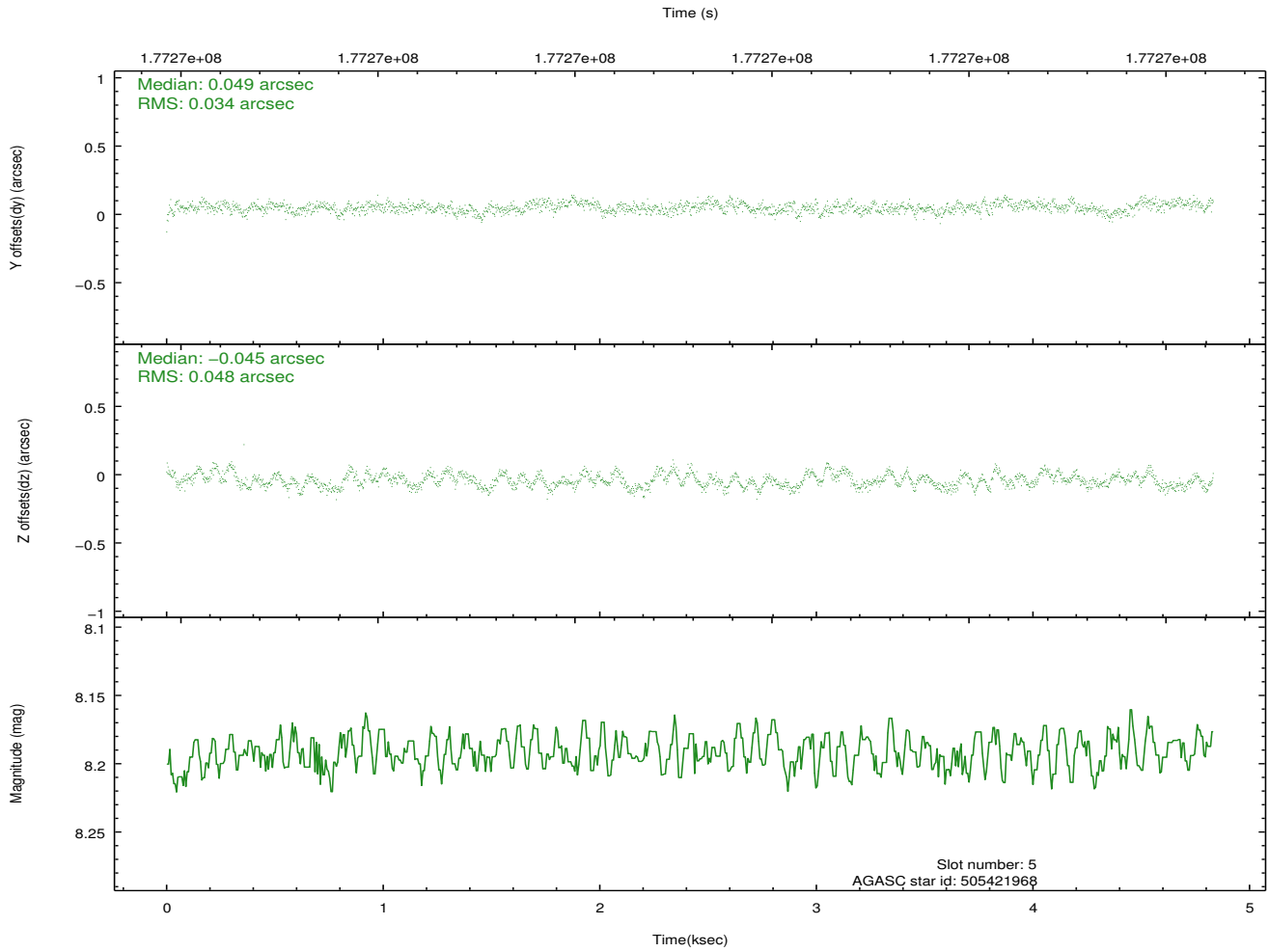
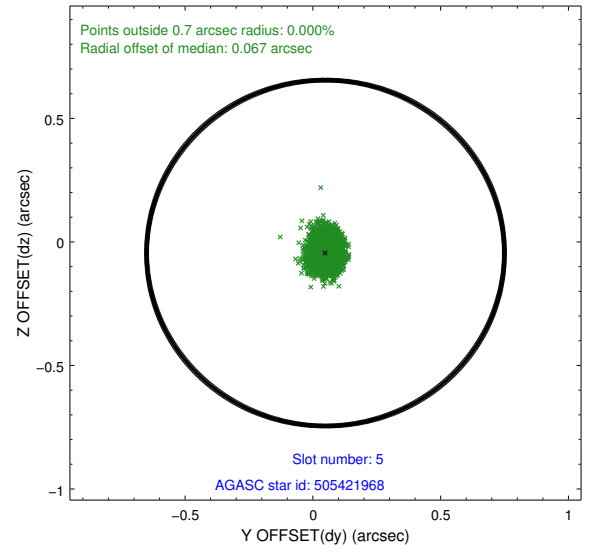
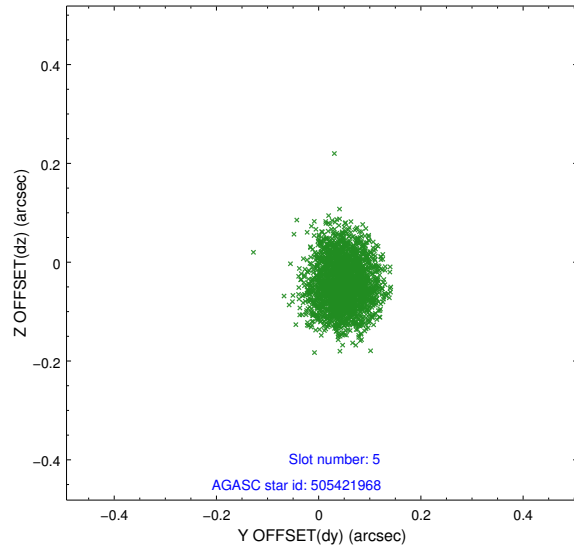
2.4.1 Slot 3



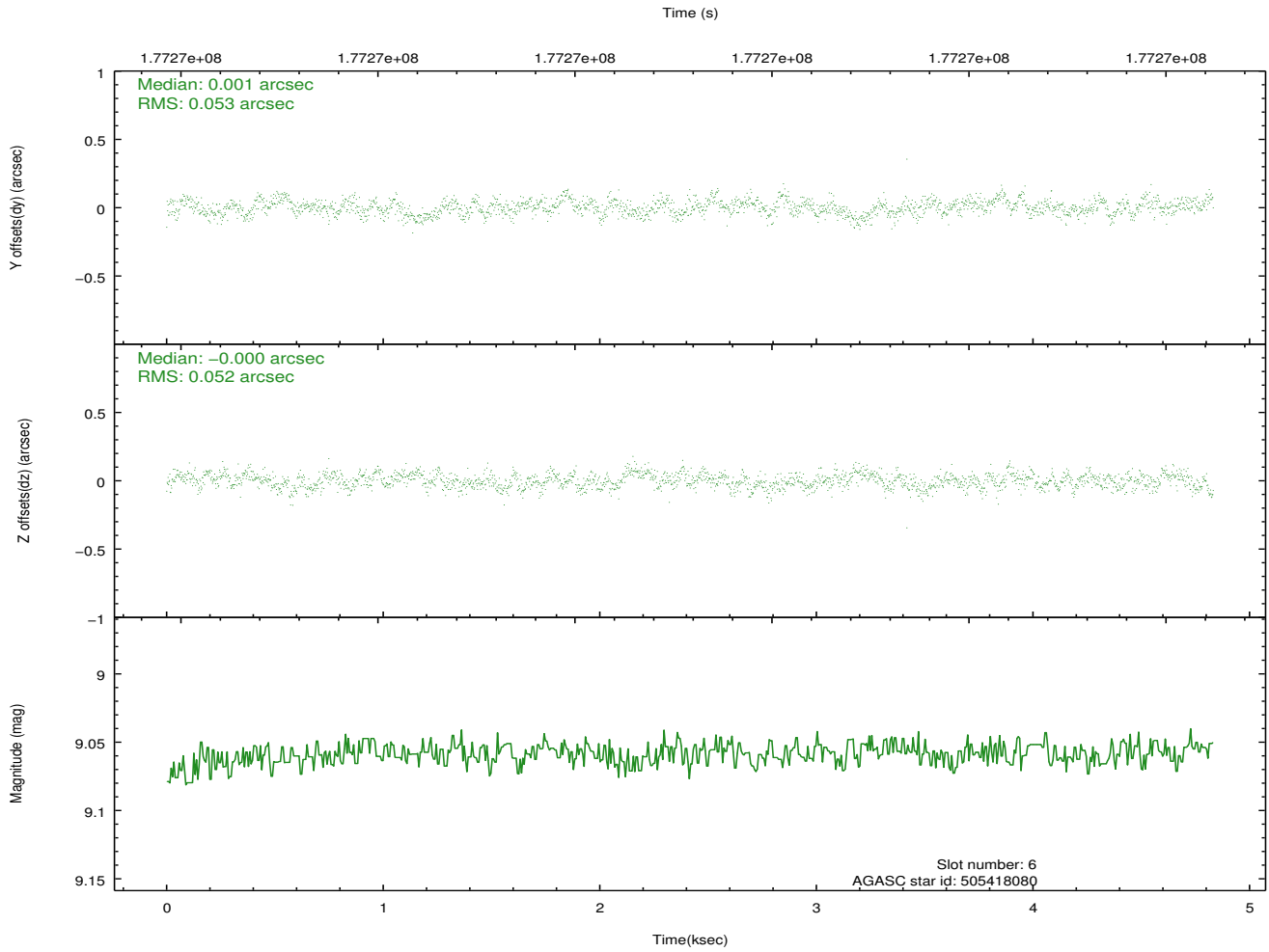
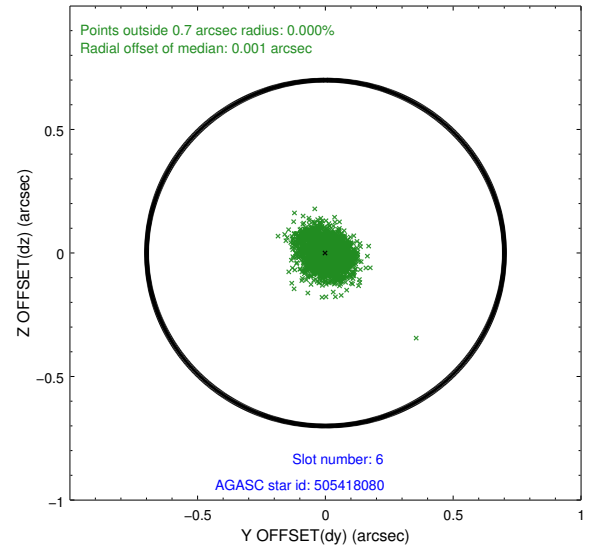
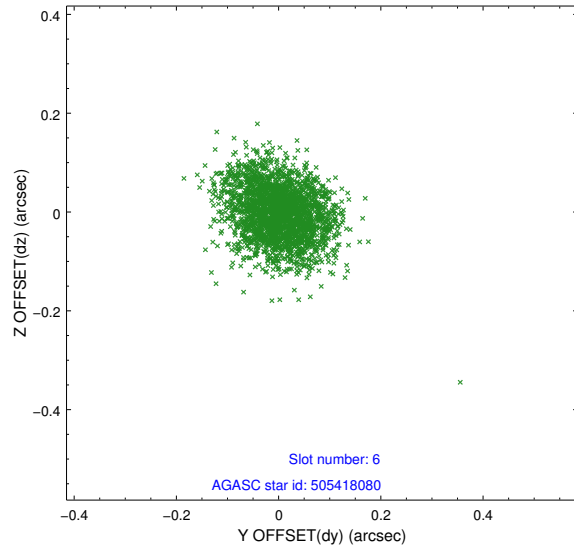
2.4.2 Slot 4



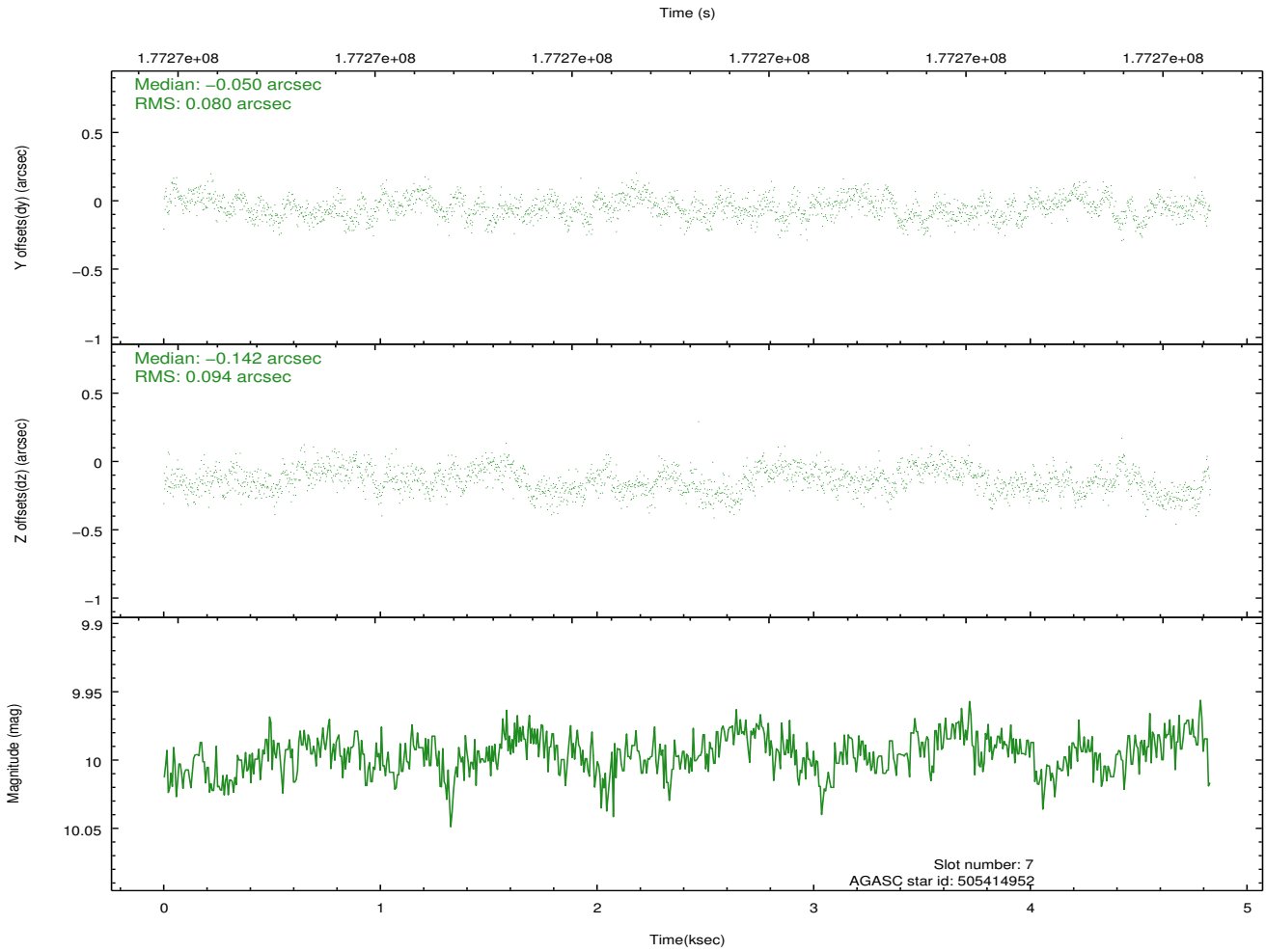
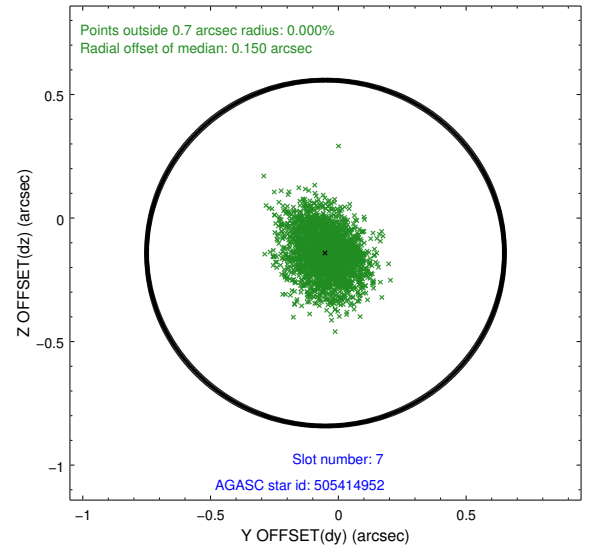
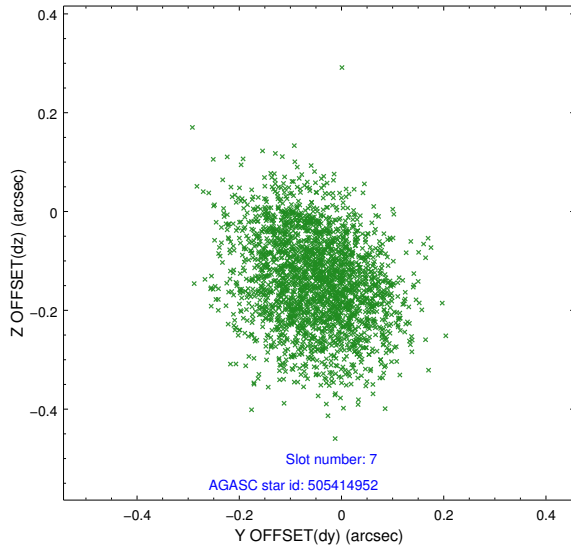
2.4.3 Slot 5



2.4.4 Slot 6

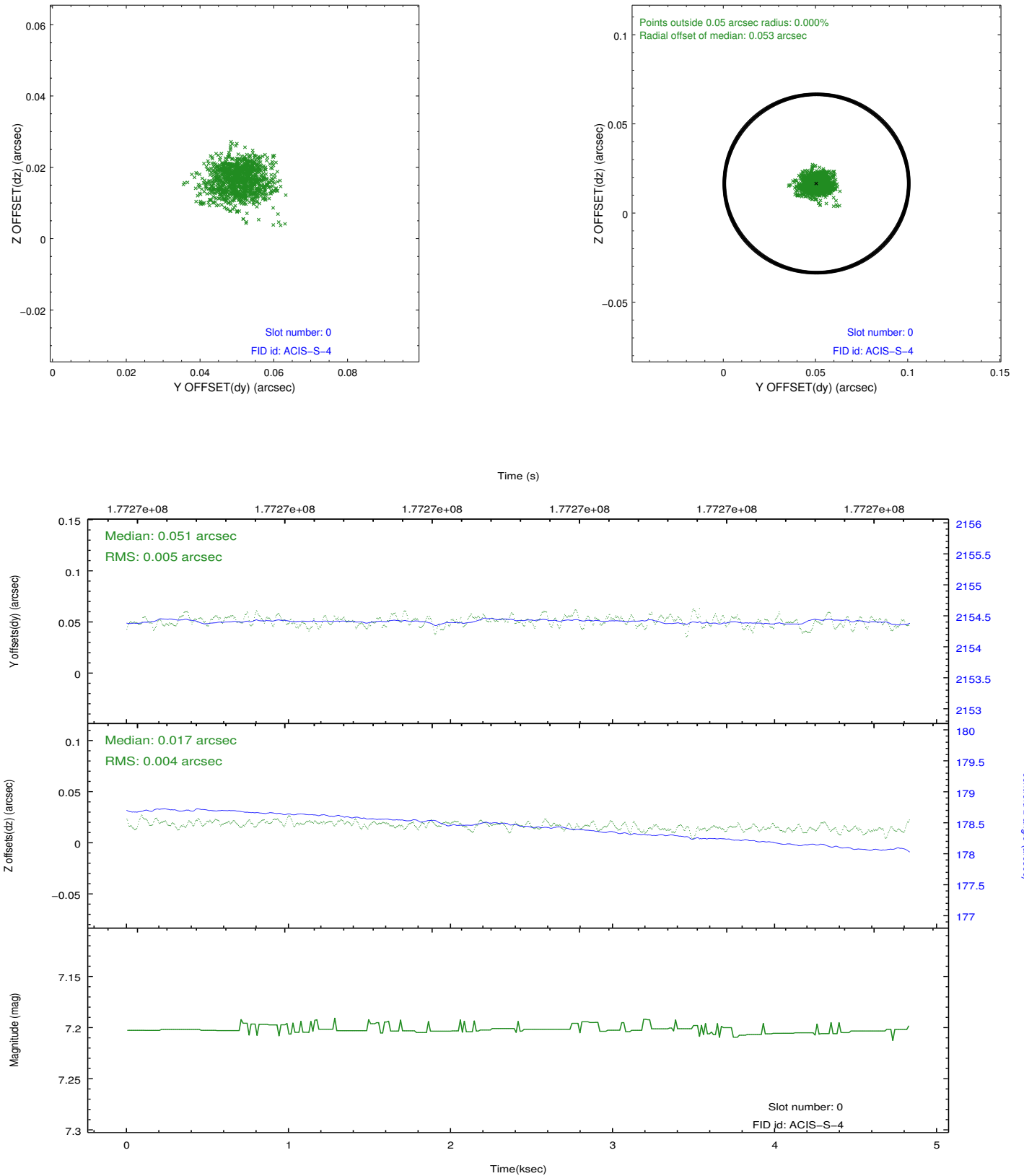


2.4.5 Slot 7

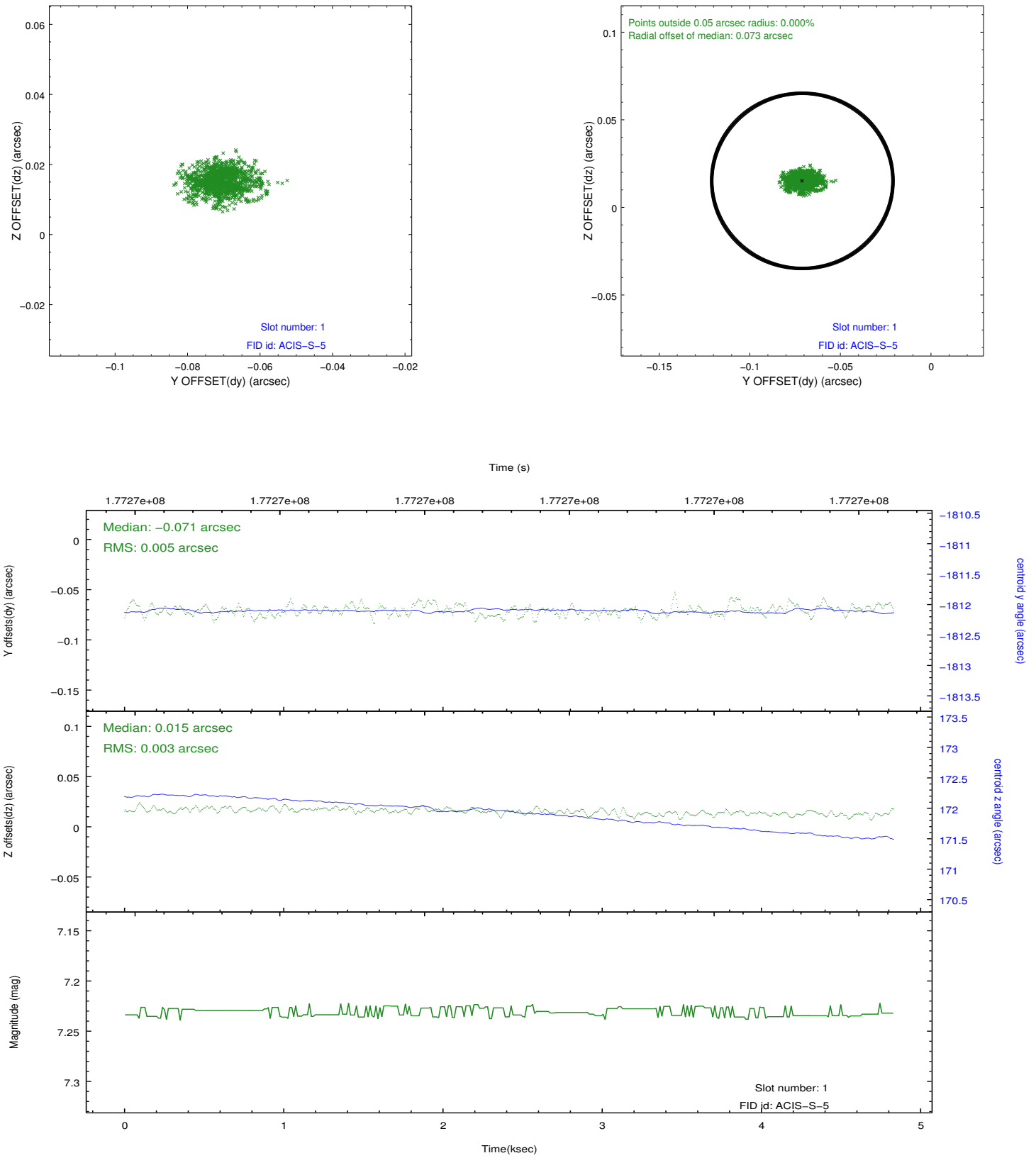


2.5 FID Slots

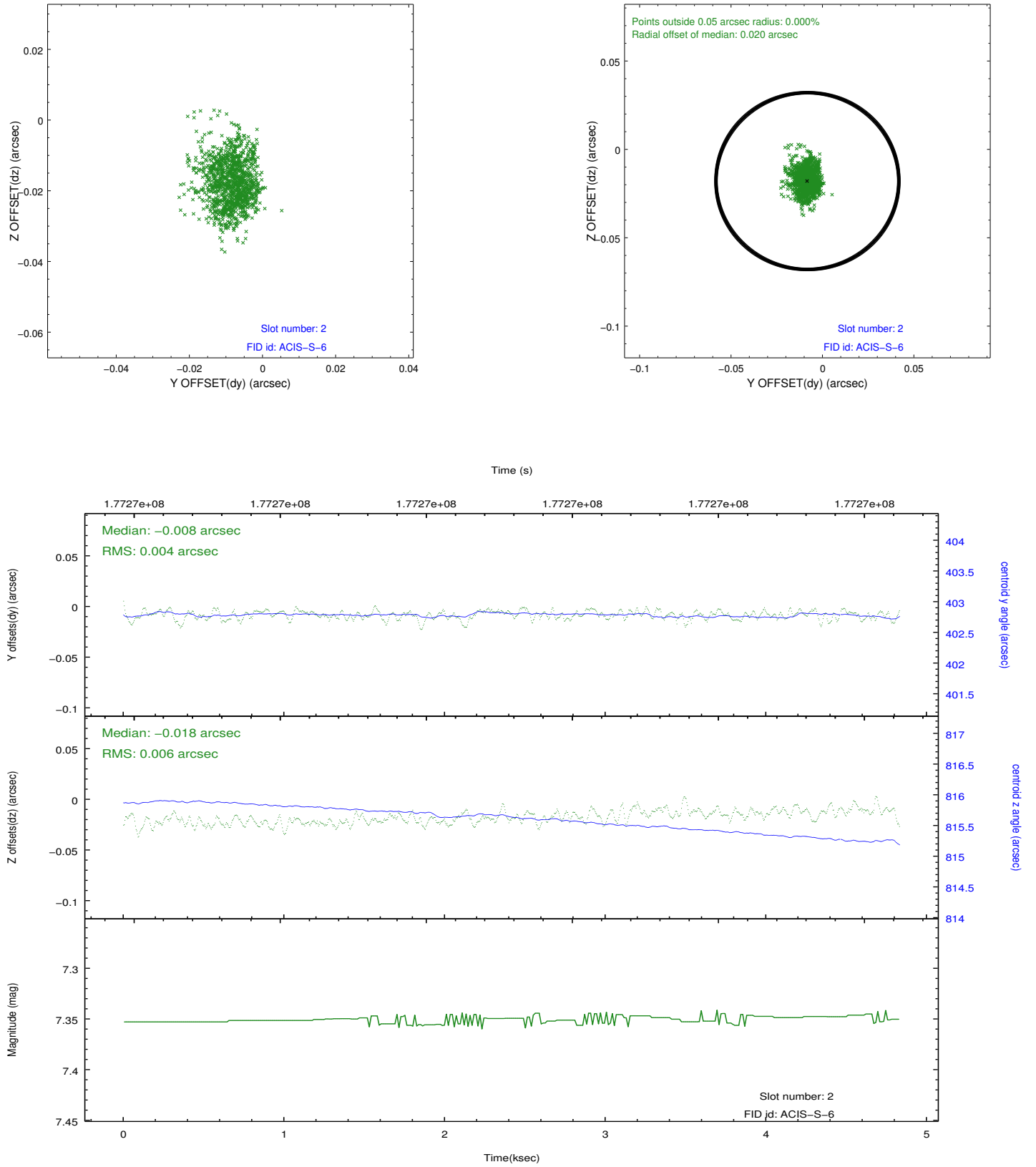
2.5.1 Slot 0



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)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.829

A.2 Comments