

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3037 - L2 Version 3
Chandra X-Ray Center

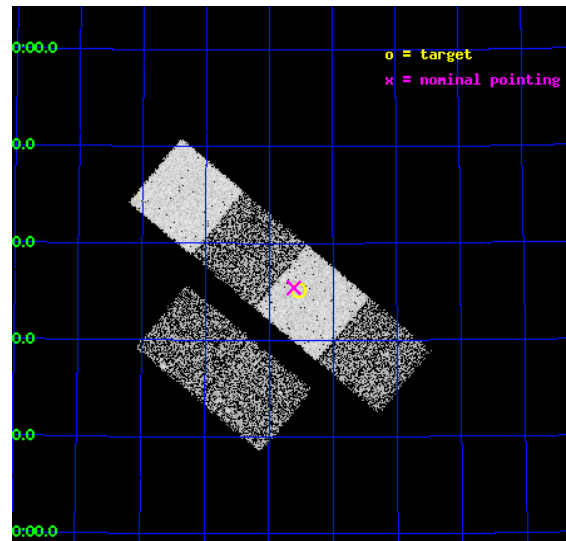
L2 Processing Date : Oct 15 2012

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

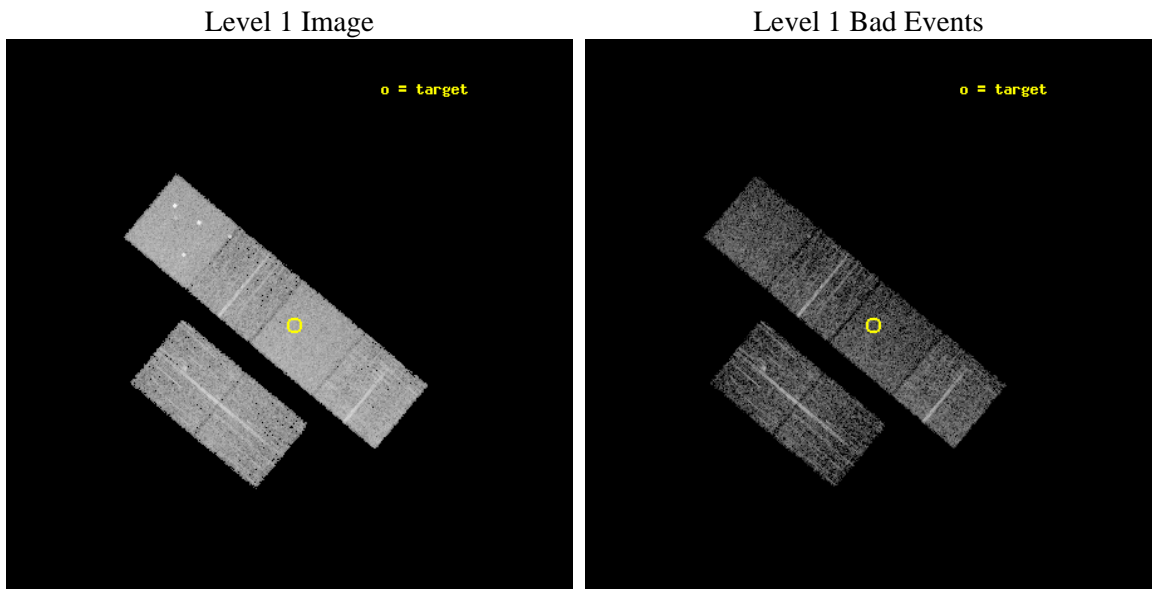
seq_num	700476	Sequence number
obs_id	3037	Observation id
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS102332+633508	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	155.88375	Observer's specified target RA [deg]
dec_targ	63.585583	Observer's specified target Dec [deg]
ra_nom	155.90276718875	Nominal RA [deg]
dec_nom	63.59039898615	Nominal Dec [deg]
roll_nom	39.795260598367	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4754.1901501715	Sum of GTIs [s]
livetime	4693.9897318604	Livetime [s]
ontime2	4754.2311602831	Sum of GTIs [s]
ontime3	4754.0670002699	Sum of GTIs [s]
ontime5	4754.1490802765	Sum of GTIs [s]
ontime6	4754.1080402732	Sum of GTIs [s]
ontime7	4754.1901501715	Sum of GTIs [s]
ontime8	4750.7849003375	Sum of GTIs [s]
l2events	50563	Number of level 2 events



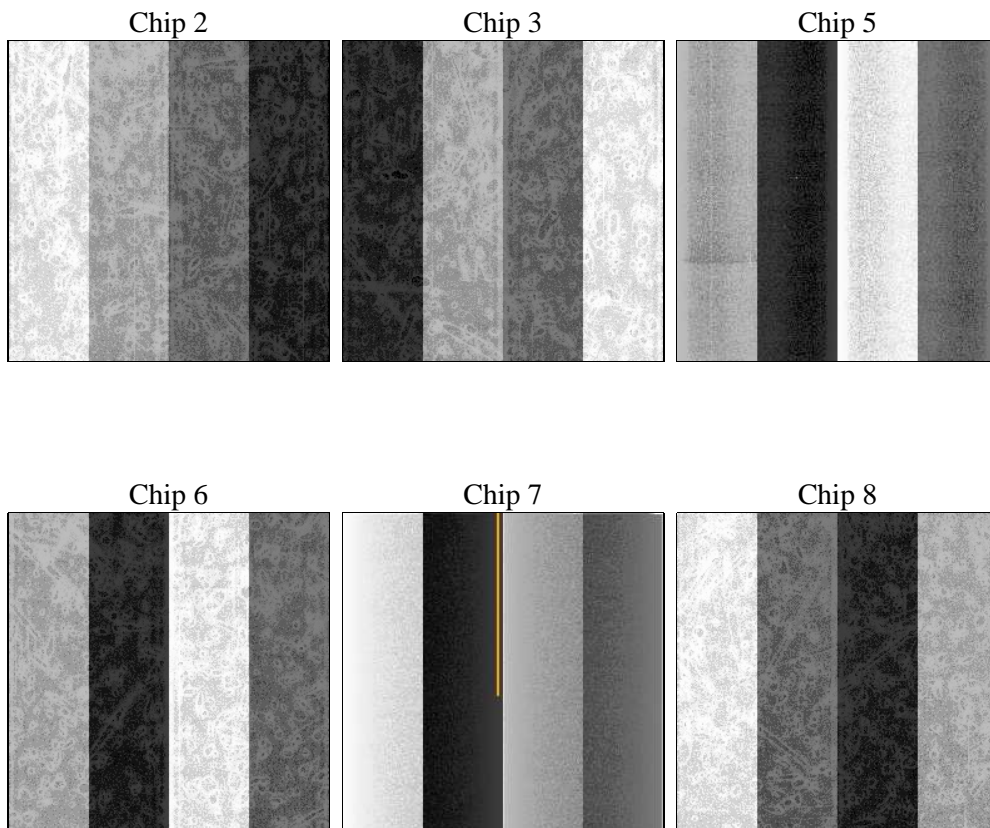
2 OBI

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	4754.1901501715	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	4754.2311602831	Sum of GTIs [s]
date	2012-10-15T12:48:24	Date and time of file creation	ontime3	4754.0670002699	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4754.1490802765	Sum of GTIs [s]
			ontime6	4754.1080402732	Sum of GTIs [s]
			ontime7	4754.1901501715	Sum of GTIs [s]
			ontime8	4750.7849003375	Sum of GTIs [s]
			l1events	224841	Number of level 1 events

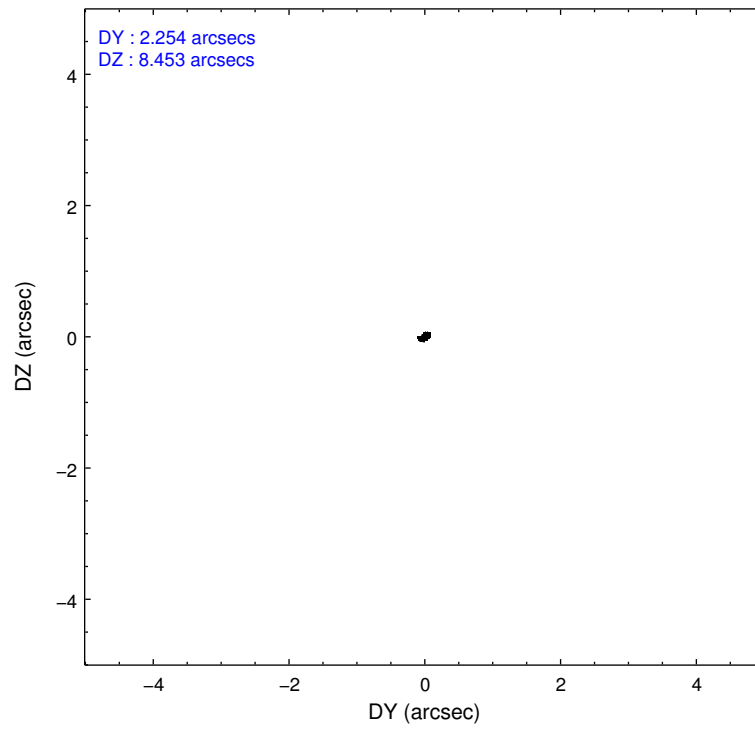
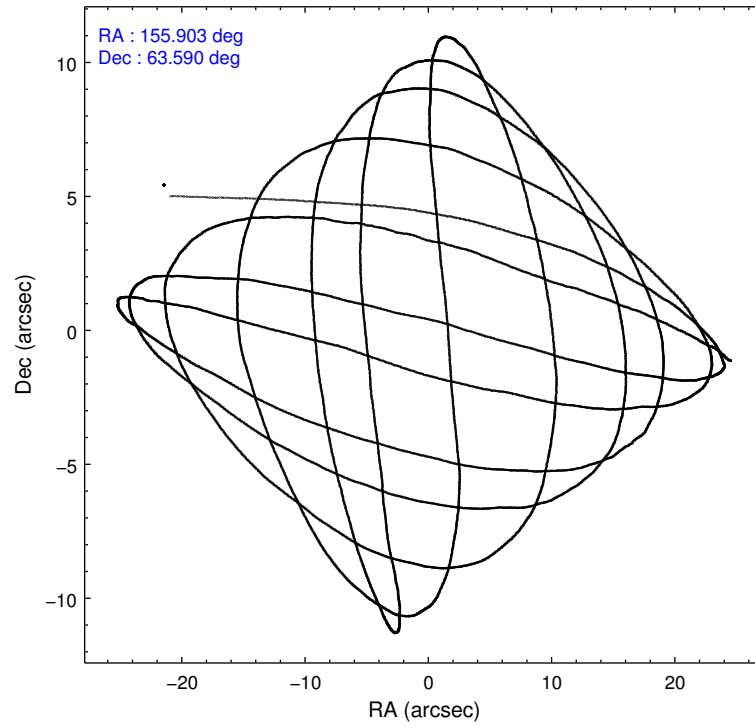
2.1.4 Events

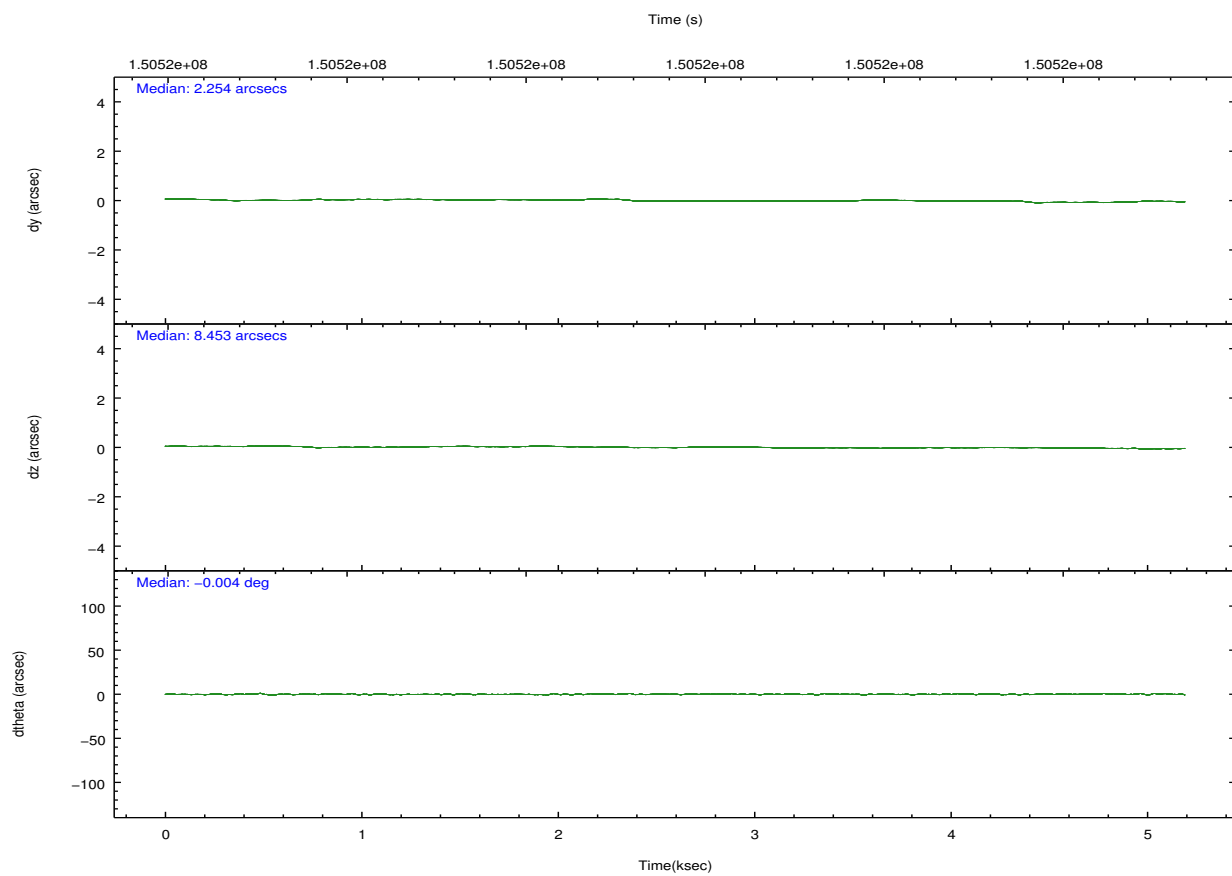
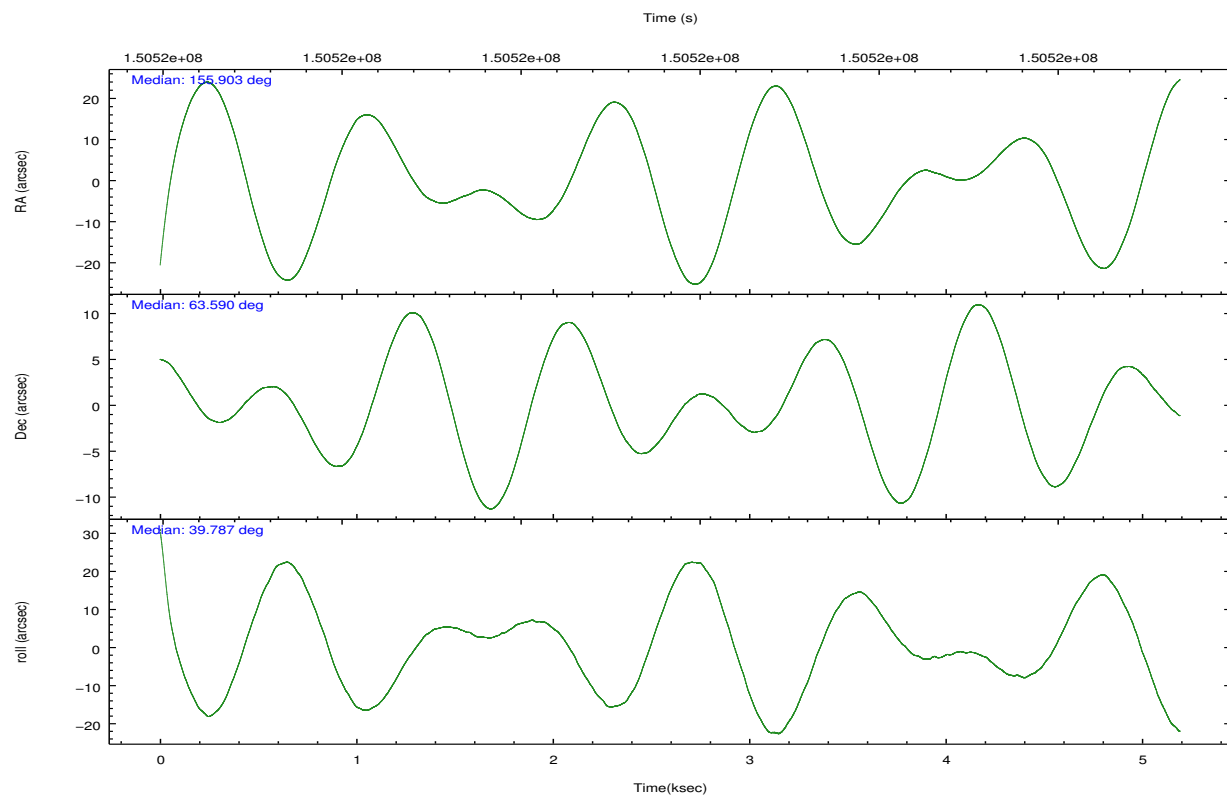
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	32406	29481	47571	31242	41929	42212	grade 0 events	1699	1736	3668	1566	1733	2628
rejected events	28604	25717	24338	27485	24071	34052		5%	5%	7%	5%	4%	6%
rejected %	88%	87%	51%	87%	57%	80%	grade 1 events	17	16	146	17	37	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	732	641	6678	758	3642	1678
								2%	2%	14%	2%	8%	3%
							grade 3 events	361	355	939	385	1629	908
								1%	1%	1%	1%	3%	2%
							grade 4 events	384	388	876	349	1616	859
								1%	1%	1%	1%	3%	2%
							grade 5 events	1197	1339	3312	1416	3829	1716
								3%	4%	6%	4%	9%	4%
							grade 6 events	627	652	11090	704	9248	2092
								1%	2%	23%	2%	22%	4%
							grade 7 events	27389	24354	20862	26047	20195	32287
								84%	82%	43%	83%	48%	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	155.882273	155.9027671887506	Subarray requested	NONE	NONE
[deg] Pointing Dec	63.564699	63.59039898614959	Alternating exposures requested	N	N
[deg] Pointing Roll	39.656984	39.79526059836715	[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)	150516430.184000	150515426.32791			
Observation start date	2002-10-09T02:06:06	2002-10-09T01:50:26			
[s] Observation end time (MET)	150521430.184000	150521886.39067			
Observation end date	2002-10-09T03:29:26	2002-10-09T03:38:06			
Read mode	TIMED	TIMED			

2.3 Aspect



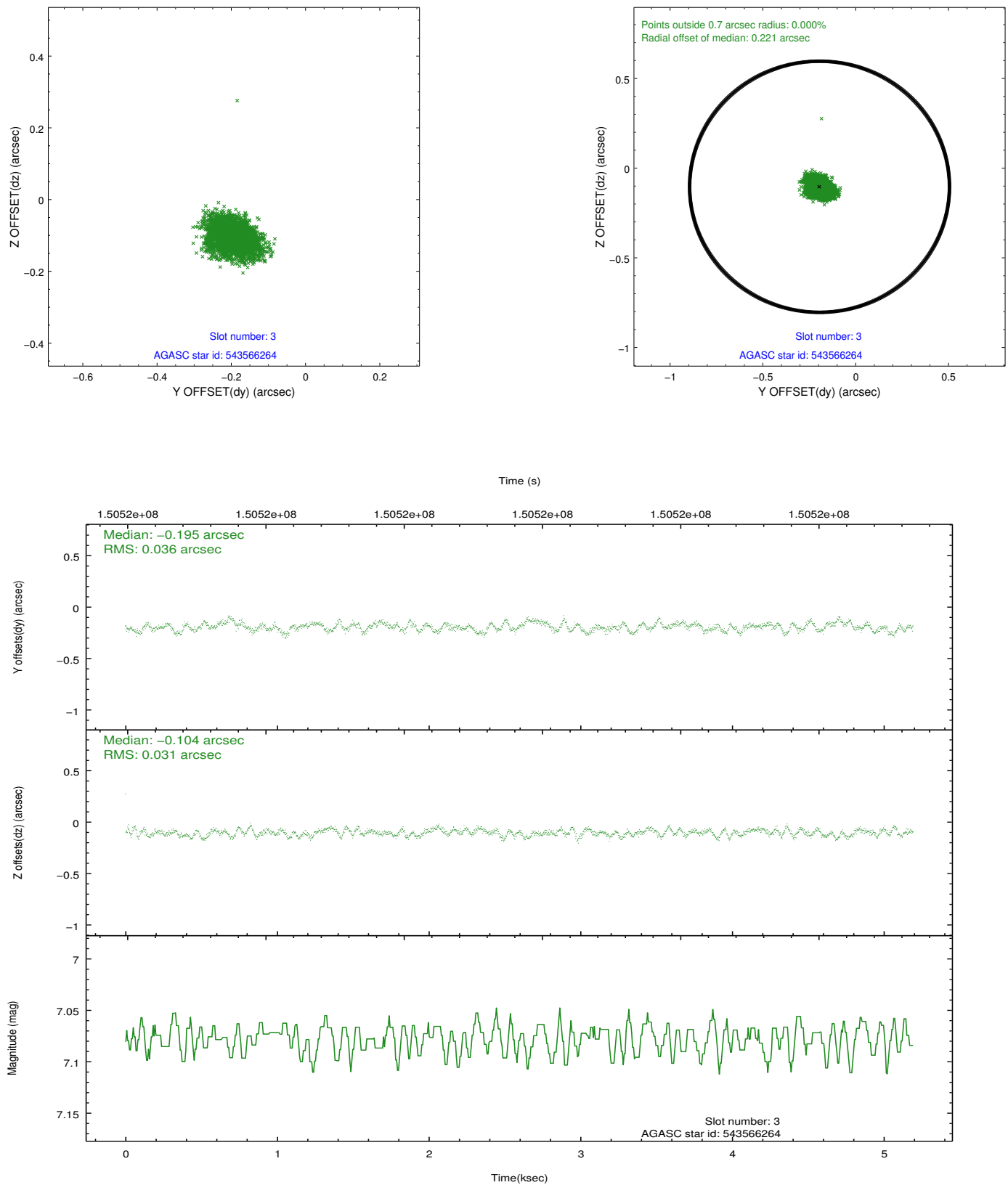


Slot Statistics

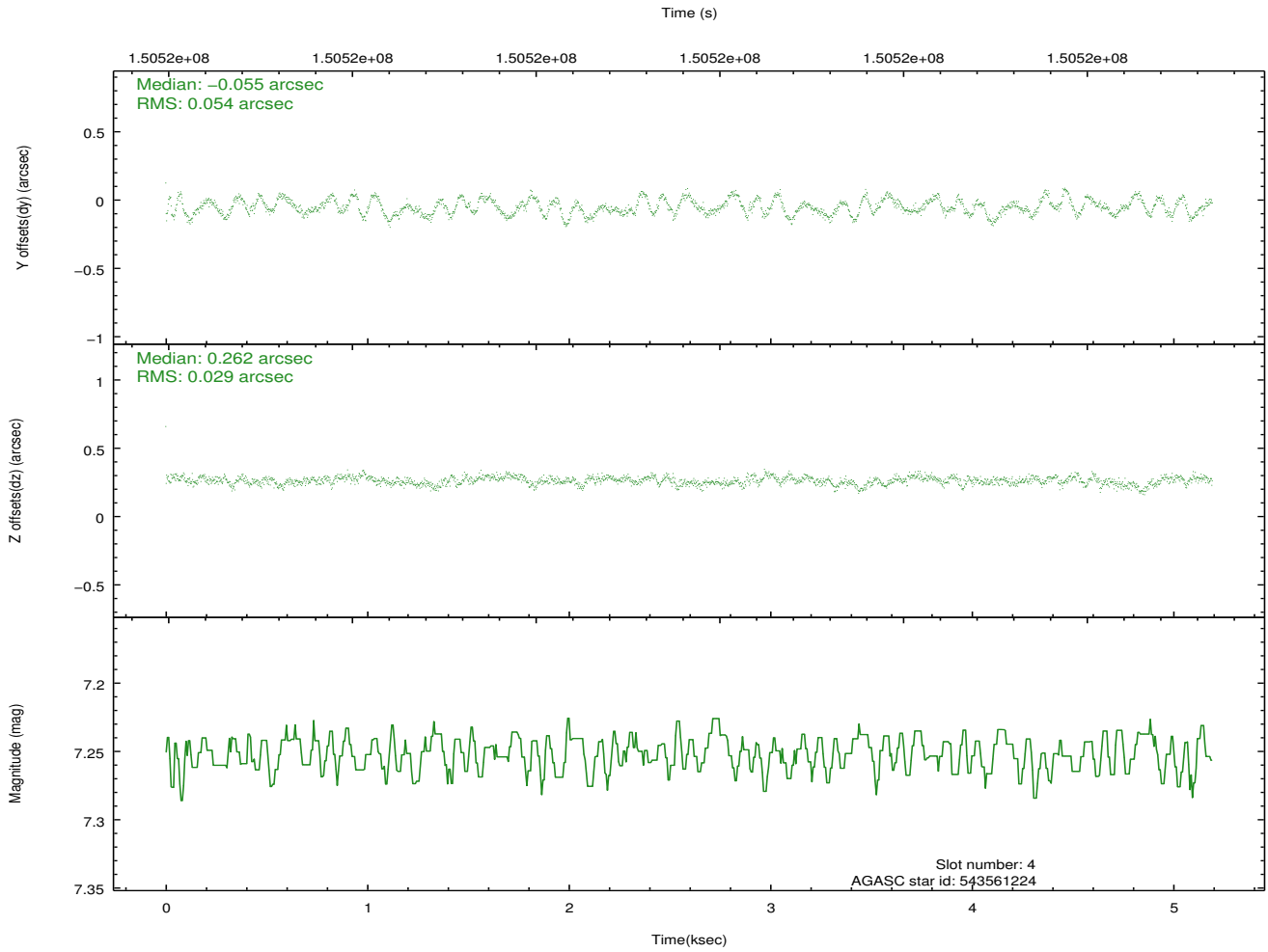
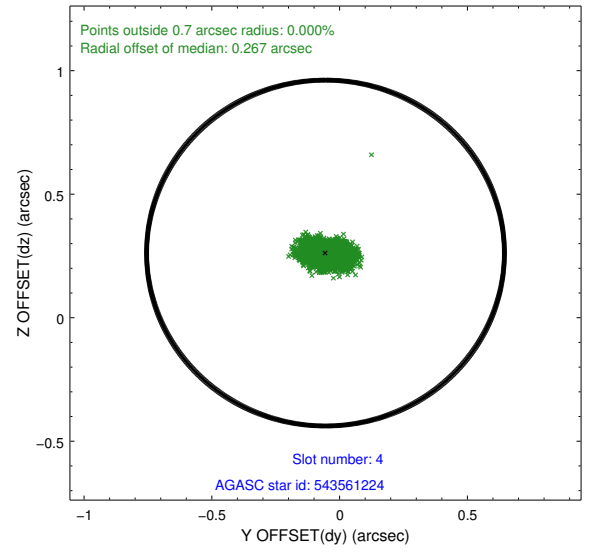
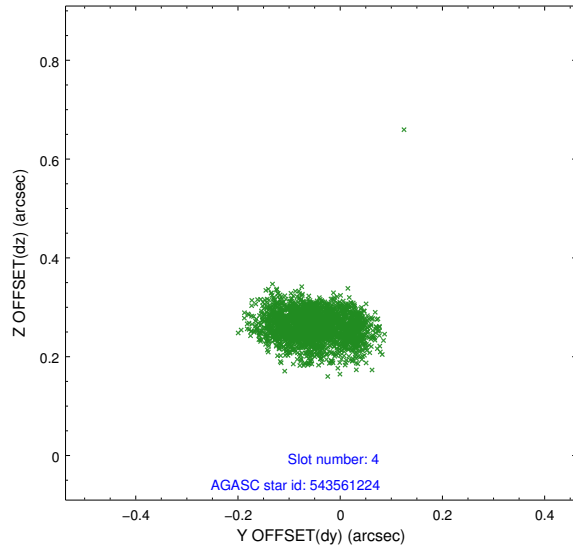
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1267	-0.029	-0.016	0.007	0.011	0.000000	0.000000	-754.91	-1729.67
1	FID	ACIS-S-4	7.20	1266	-0.003	0.018	0.006	0.009	0.000000	0.000000	2157.87	177.62
2	FID	ACIS-S-5	7.23	1266	0.001	0.006	0.006	0.012	0.000000	0.000000	-1806.21	172.63
3	GUIDE	543566264	7.08	2533	-0.195	-0.104	0.050	0.082	156.254271	64.157898	1812.39	1273.39
4	GUIDE	543561224	7.25	2534	-0.055	0.262	0.067	0.104	157.567163	63.348757	1621.69	-2305.82
5	GUIDE	543564984	8.51	2534	0.002	-0.069	0.056	0.090	156.329553	63.934042	1394.84	573.63
6	GUIDE	543562104	9.00	2531	0.119	-0.055	0.067	0.110	155.237007	63.724275	-421.84	1103.04
7	GUIDE	543559544	9.59	2532	0.124	-0.030	0.097	0.155	155.488993	63.856379	190.21	1208.84

2.4 Star Slots

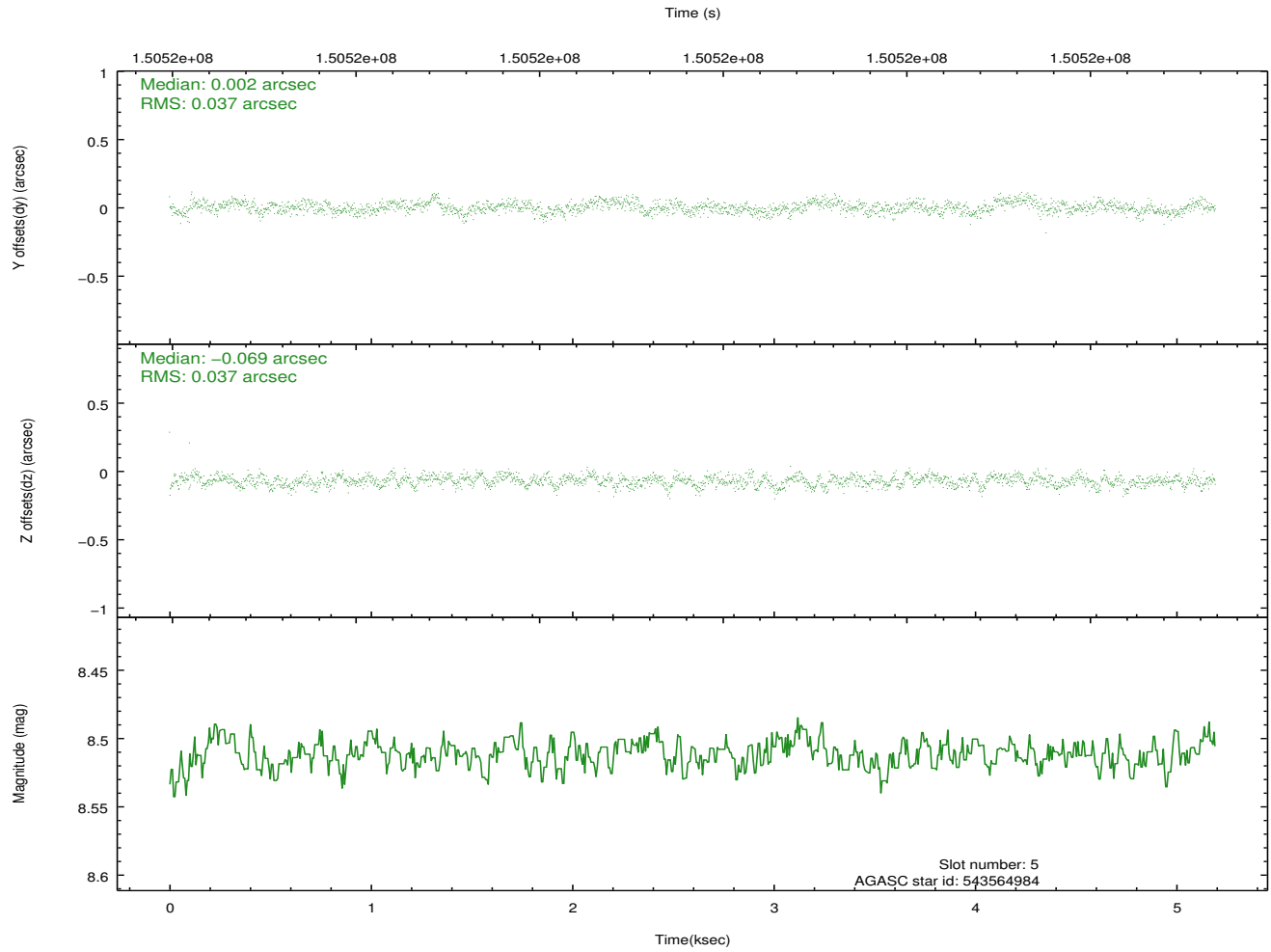
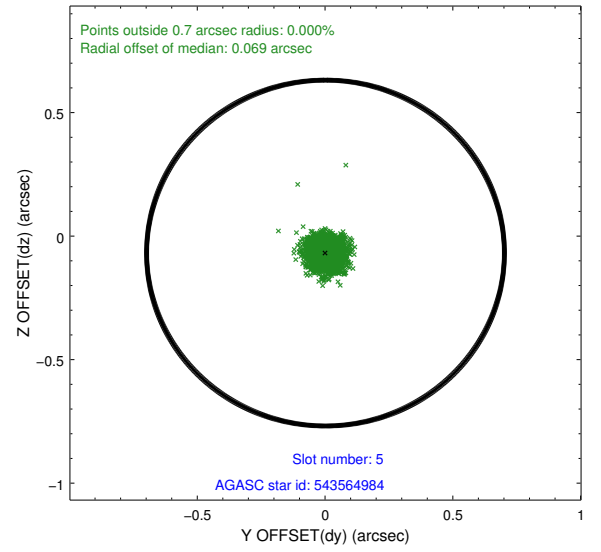
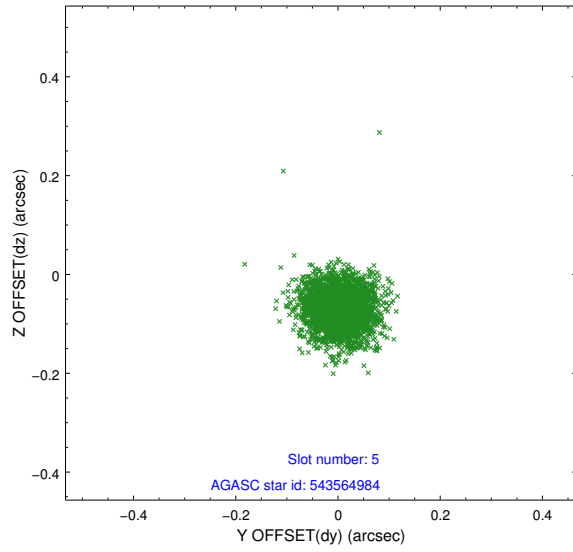
2.4.1 Slot 3



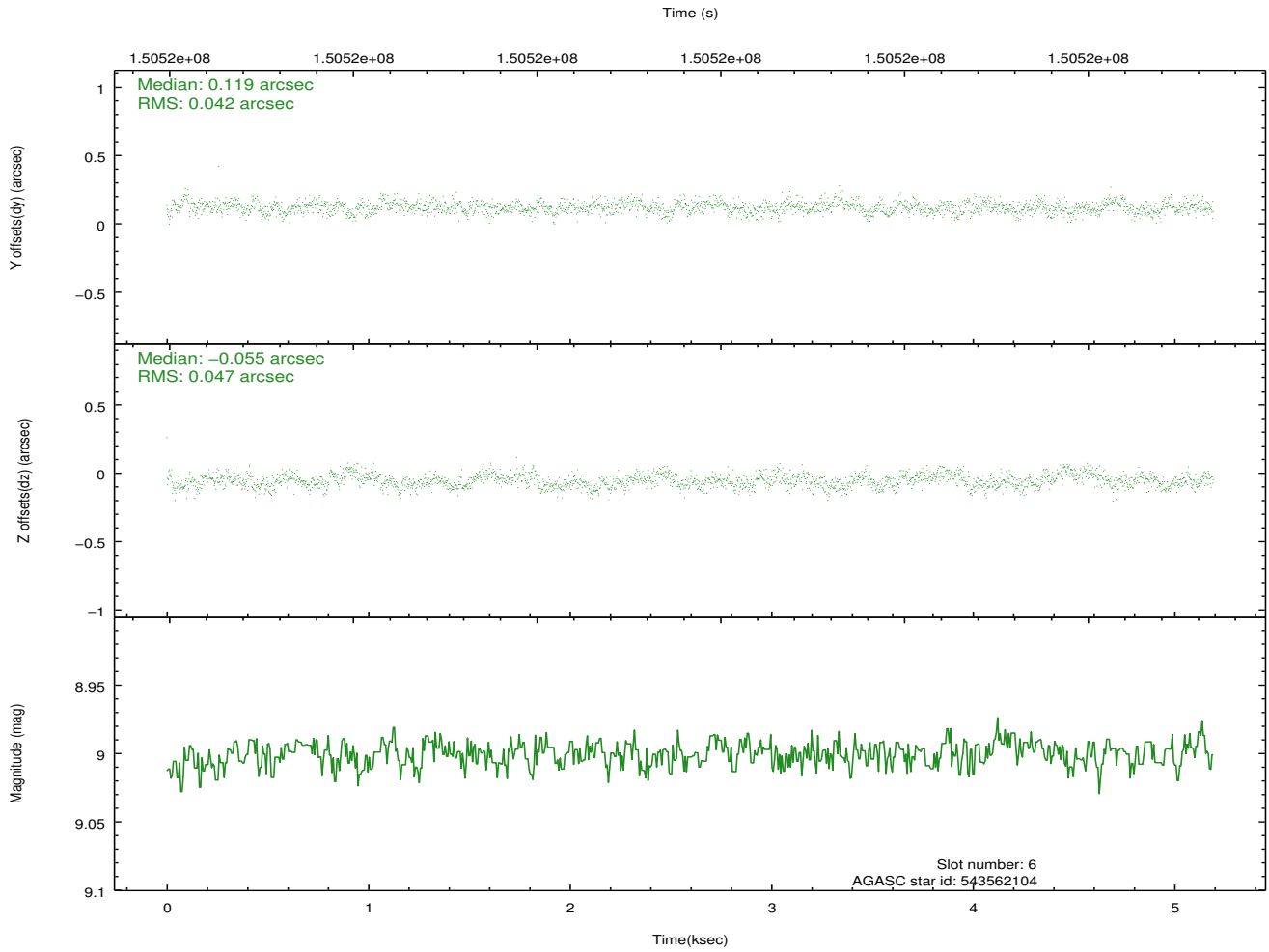
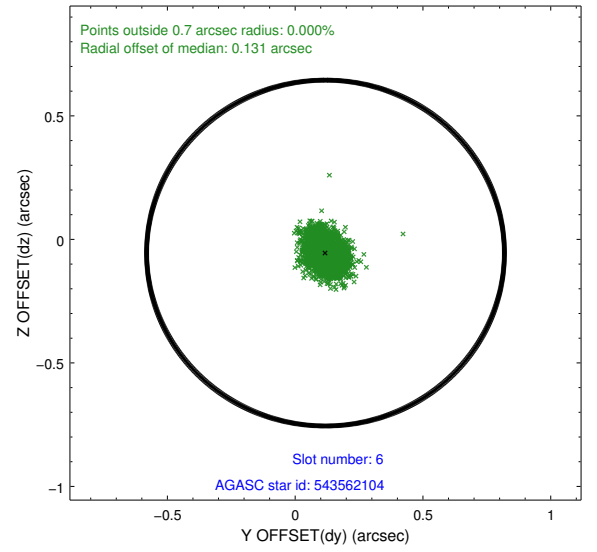
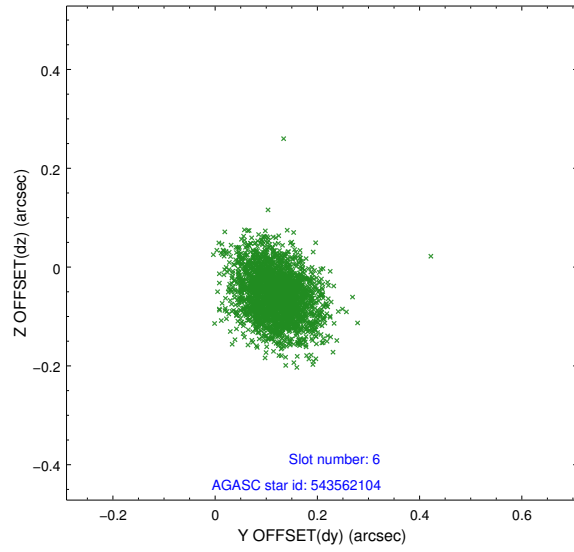
2.4.2 Slot 4



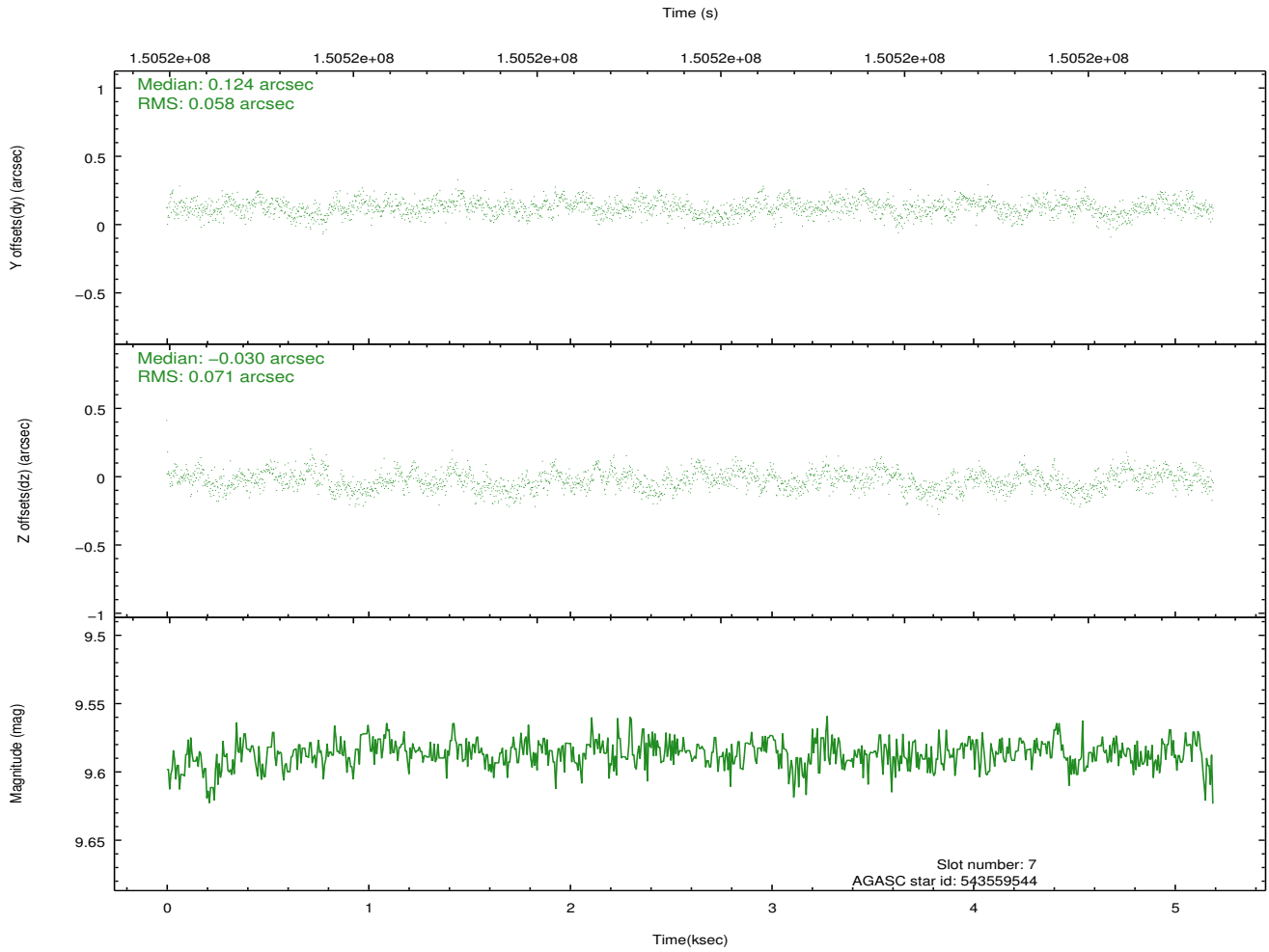
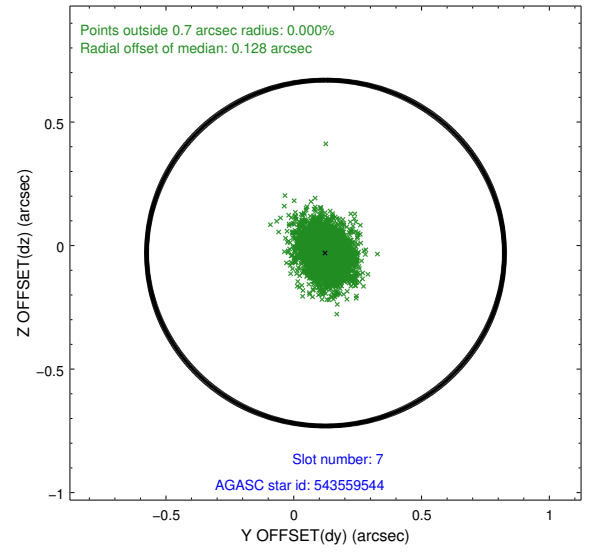
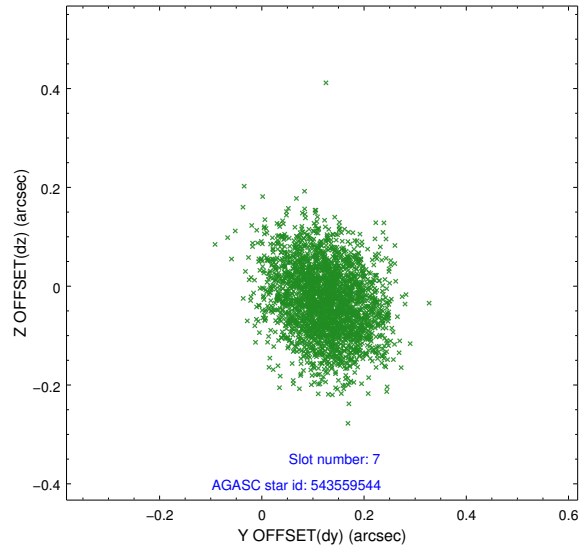
2.4.3 Slot 5



2.4.4 Slot 6

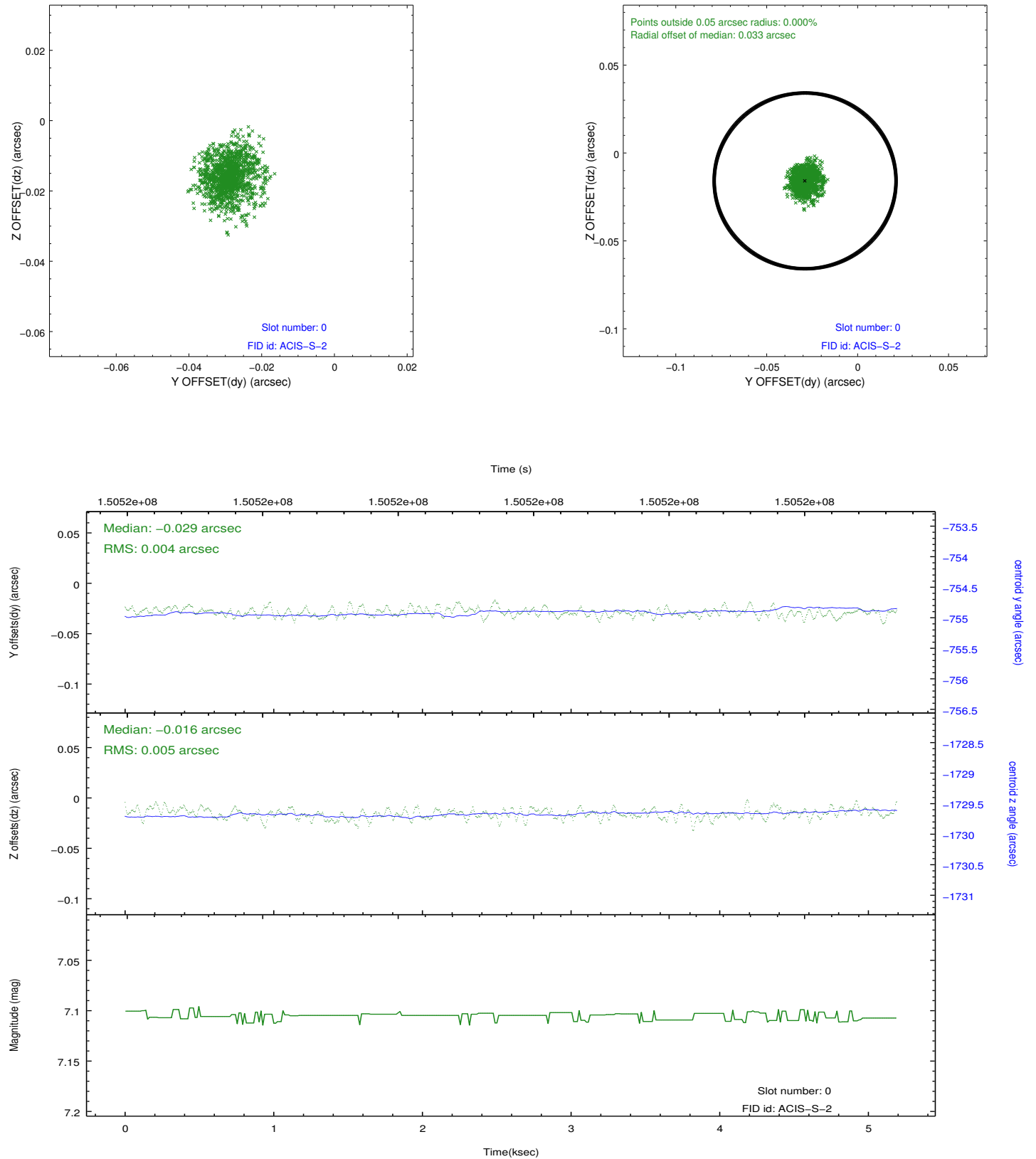


2.4.5 Slot 7

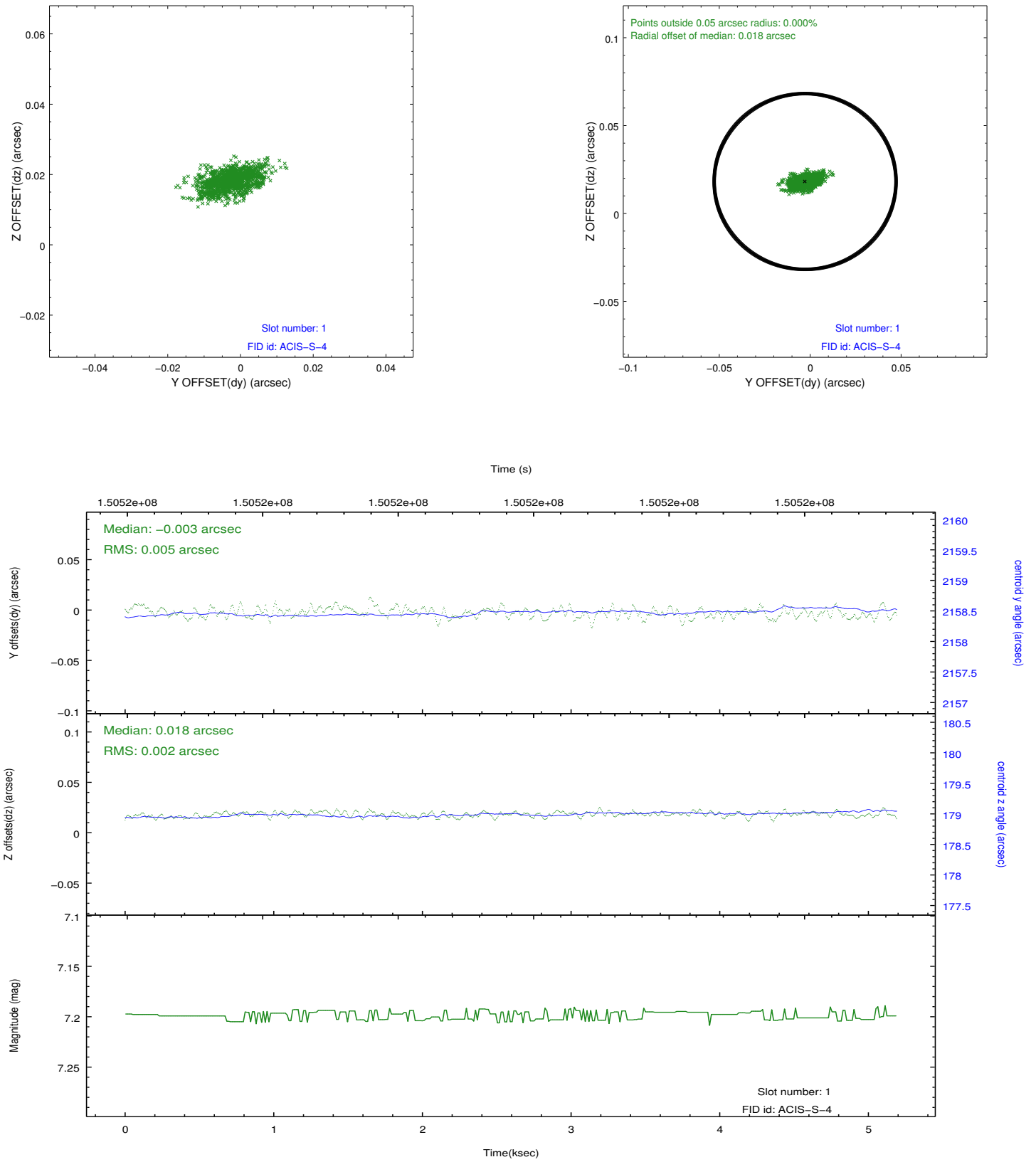


2.5 FID Slots

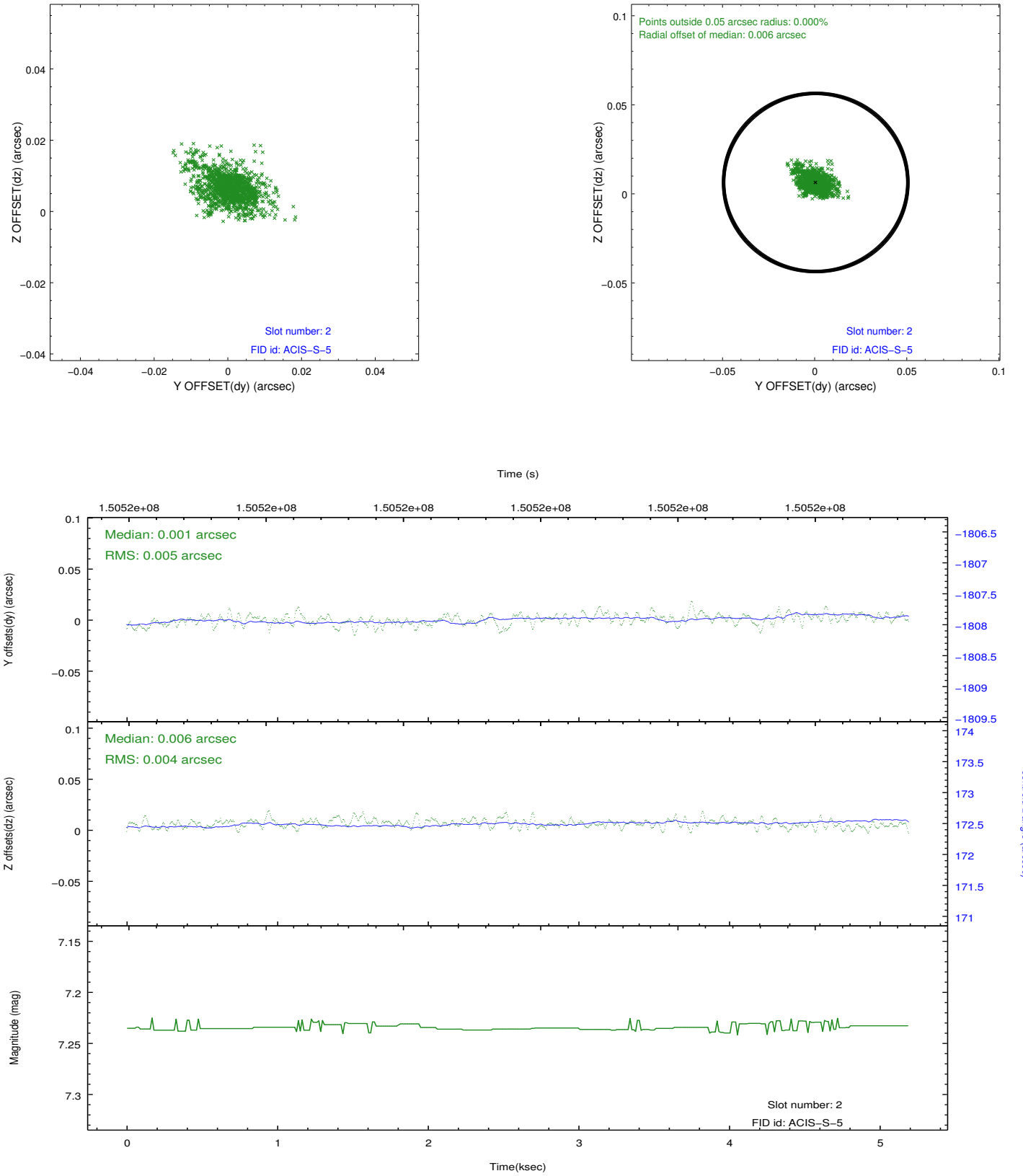
2.5.1 Slot 0



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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.755

A.2 Comments