

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3963 - L2 Version 3
Chandra X-Ray Center

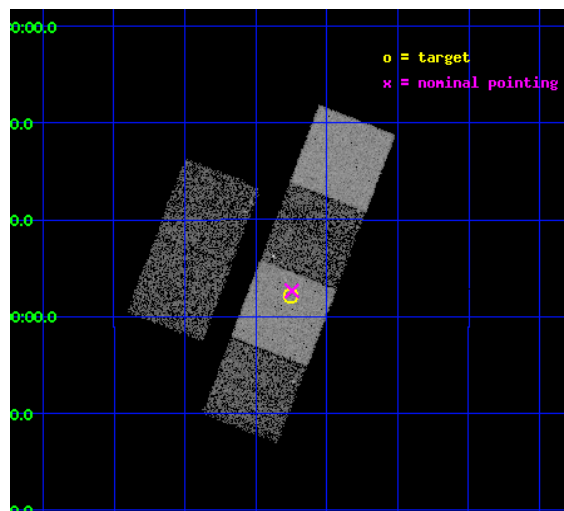
L2 Processing Date : Oct 27 2012

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

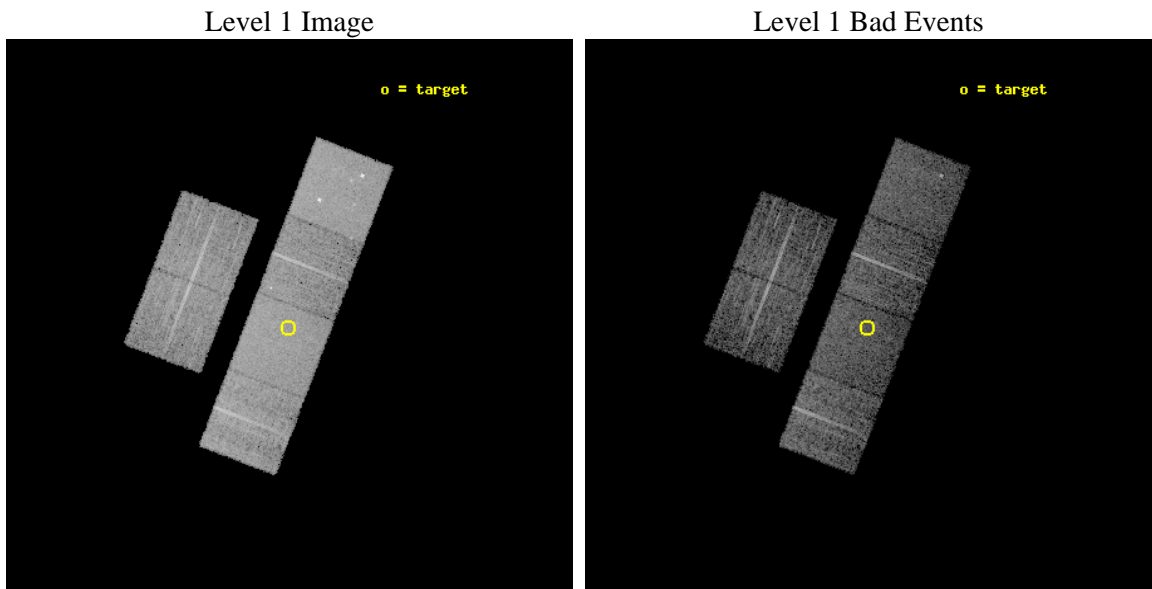
seq_num	700642	Sequence number
obs_id	3963	Observation id
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J222845-075755	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	337.188333	Observer's specified target RA [deg]
dec_targ	-7.965361	Observer's specified target Dec [deg]
ra_nom	337.18647177571	Nominal RA [deg]
dec_nom	-7.9558766075977	Nominal Dec [deg]
roll_nom	111.04682191783	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7126.3999734521	Sum of GTIs [s]
livetime	7036.1612059853	Livetime [s]
ontime2	7126.3999734521	Sum of GTIs [s]
ontime3	7126.3999734521	Sum of GTIs [s]
ontime5	7126.3999734521	Sum of GTIs [s]
ontime6	7126.3999734521	Sum of GTIs [s]
ontime7	7126.3999734521	Sum of GTIs [s]
ontime8	7126.3999734521	Sum of GTIs [s]
l2events	69281	Number of level 2 events



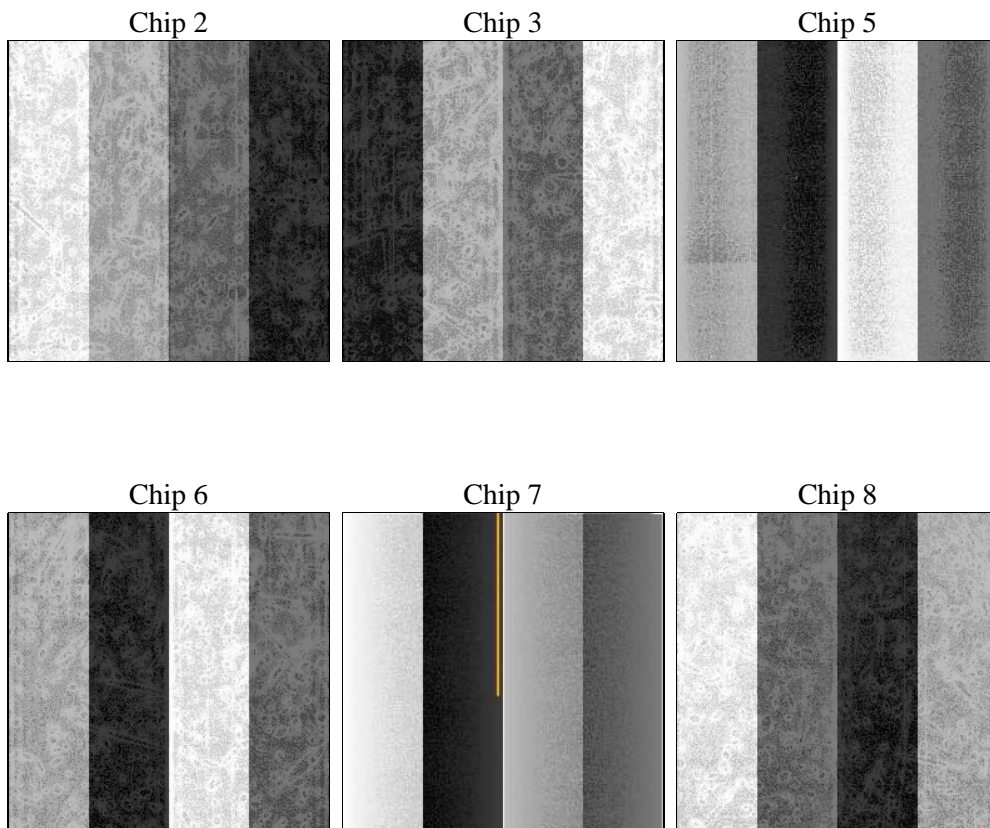
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7126.3999734521	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	7126.3999734521	Sum of GTIs [s]
date	2012-10-27T15:36:06	Date and time of file creation	ontime3	7126.3999734521	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7126.3999734521	Sum of GTIs [s]
			ontime6	7126.3999734521	Sum of GTIs [s]
			ontime7	7126.3999734521	Sum of GTIs [s]
			ontime8	7126.3999734521	Sum of GTIs [s]
			l1events	319276	Number of level 1 events

2.1.4 Events

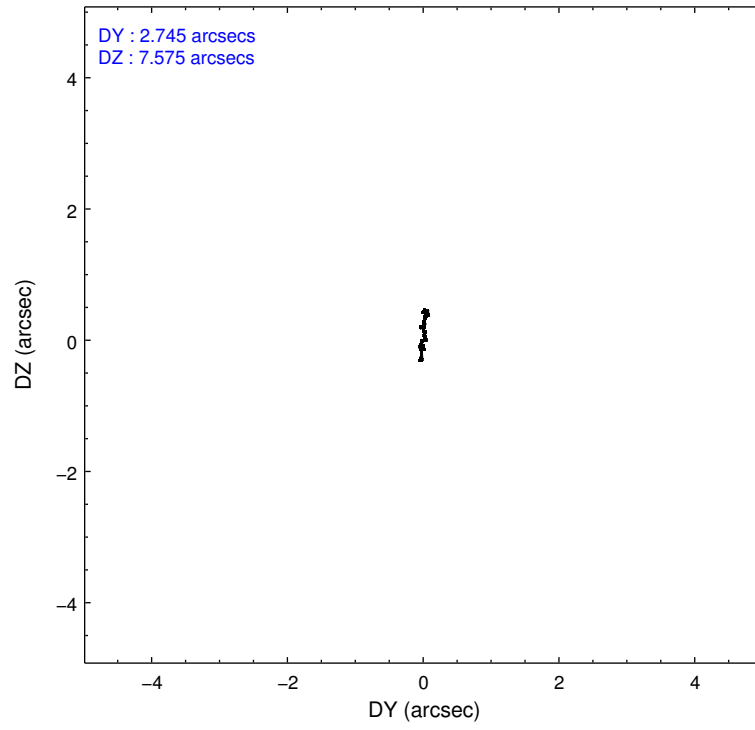
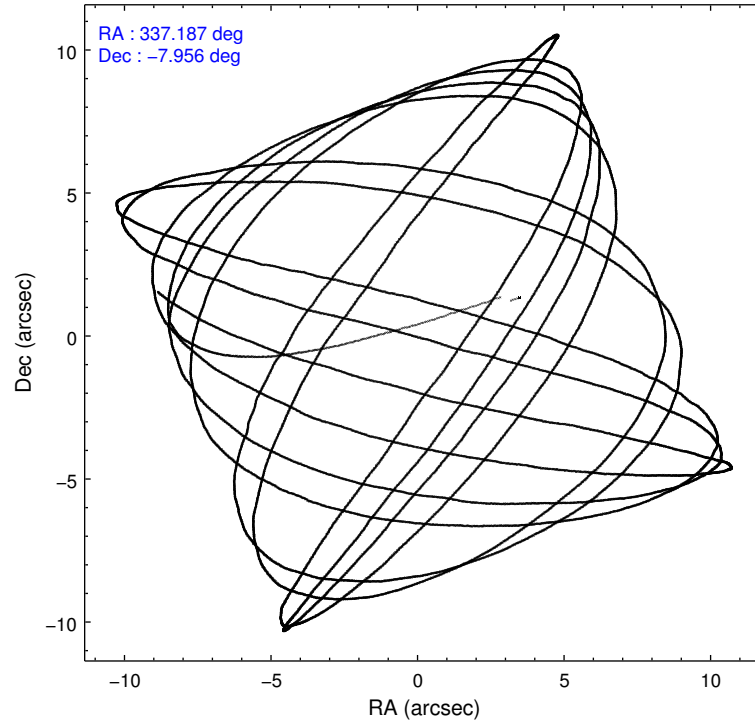
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44804	42734	67773	45449	60159	58357	grade 0 events	2436	2264	4173	2644	2215	3906
rejected events	39623	37680	37560	39681	36293	46806		5%	5%	6%	5%	3%	6%
rejected %	88%	88%	55%	87%	60%	80%	grade 1 events	25	25	84	19	63	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	1078	988	9039	1158	4794	2529
								2%	2%	13%	2%	7%	4%
							grade 3 events	481	510	1206	577	2166	1342
								1%	1%	1%	1%	3%	2%
							grade 4 events	493	480	1128	545	2169	1197
								1%	1%	1%	1%	3%	2%
							grade 5 events	1818	1967	4913	2041	5747	2750
								4%	4%	7%	4%	9%	4%
							grade 6 events	858	980	15704	1045	13334	3023
								1%	2%	23%	2%	22%	5%
							grade 7 events	37615	35520	31526	37420	29671	43576
								83%	83%	46%	82%	49%	74%

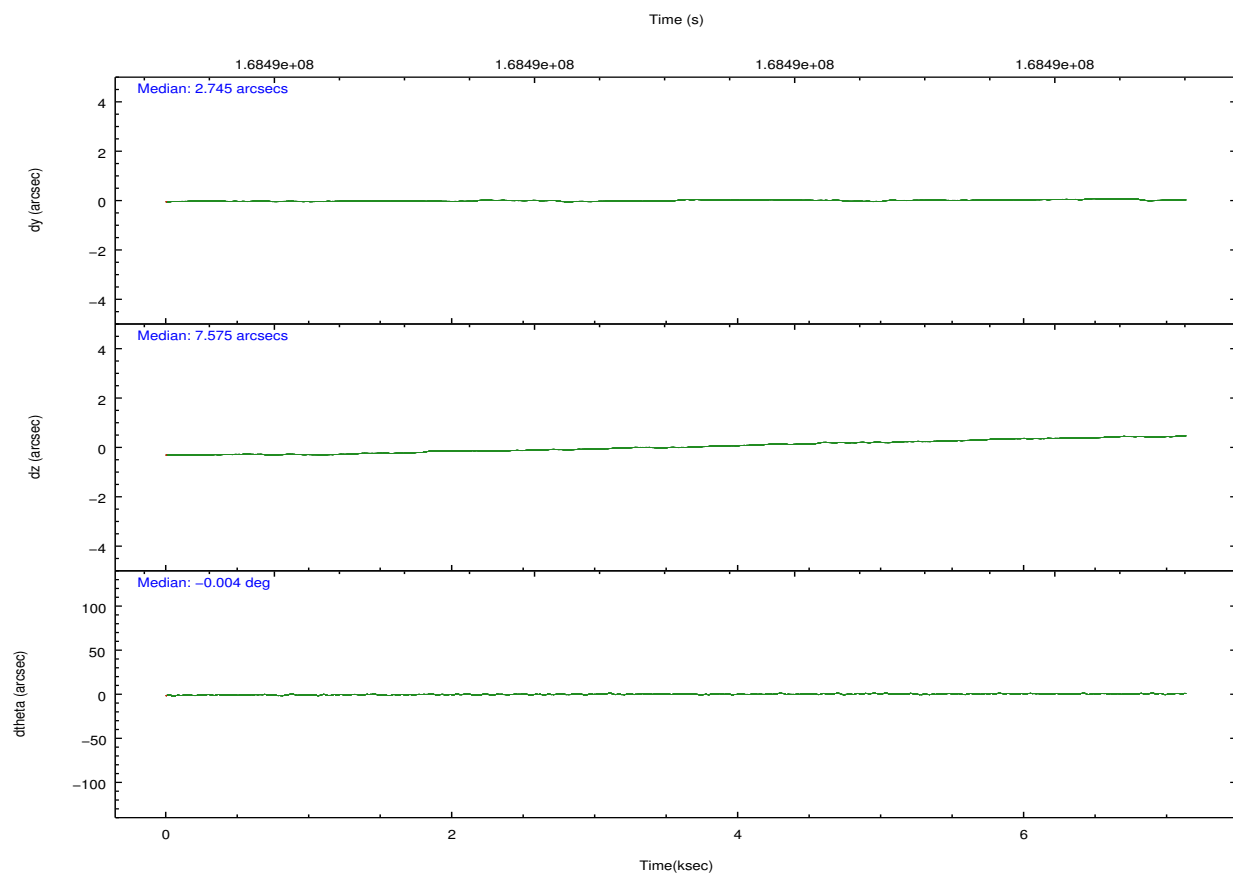
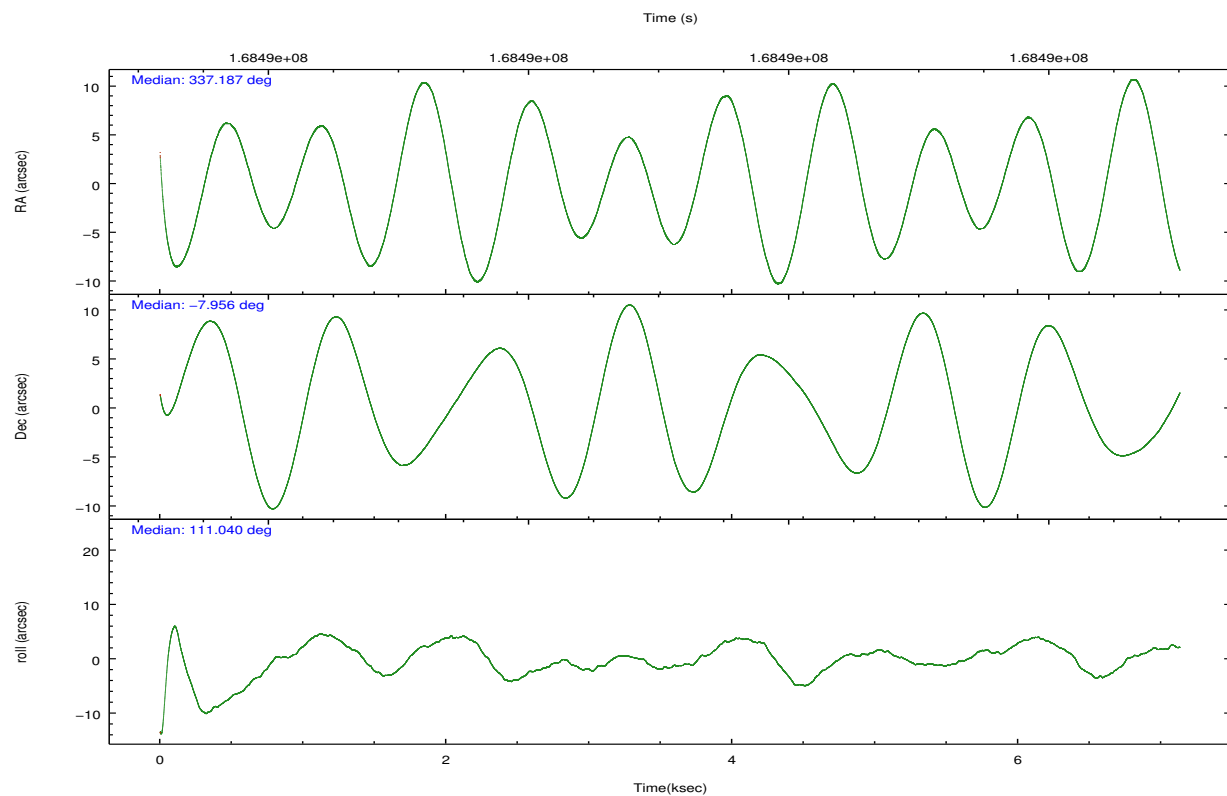
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	337.208093	337.186471775707
[deg] Pointing Dec	-7.972693	-7.955876607597688
[deg] Pointing Roll	110.893235	111.0468219178341
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	168487655.184000	168486490.19325
Observation start date	2003-05-05T02:06:31	2003-05-05T01:48:10
[s] Observation end time (MET)	168494655.184000	168495581.94363
Observation end date	2003-05-05T04:03:11	2003-05-05T04:19:41
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



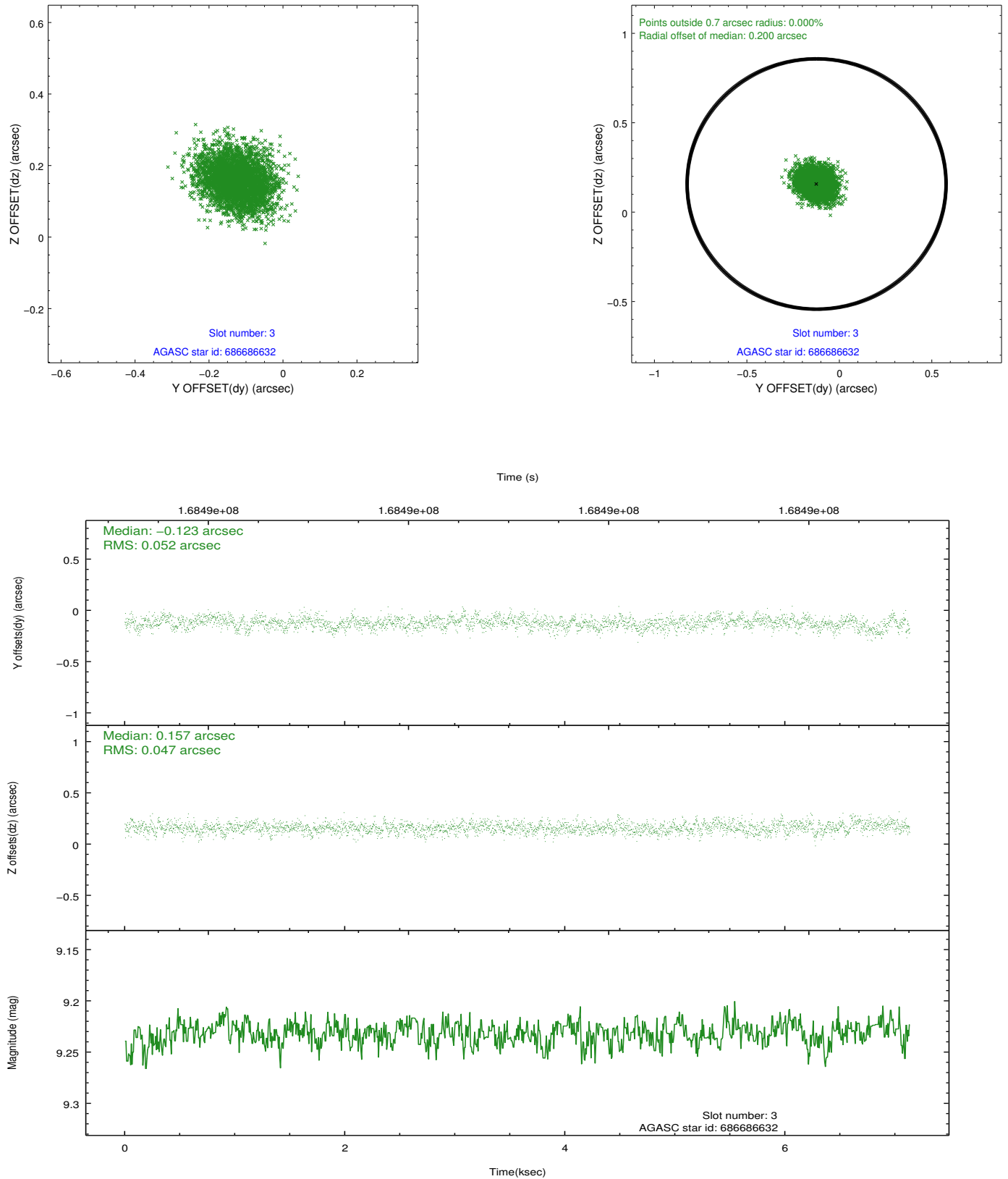


Slot Statistics

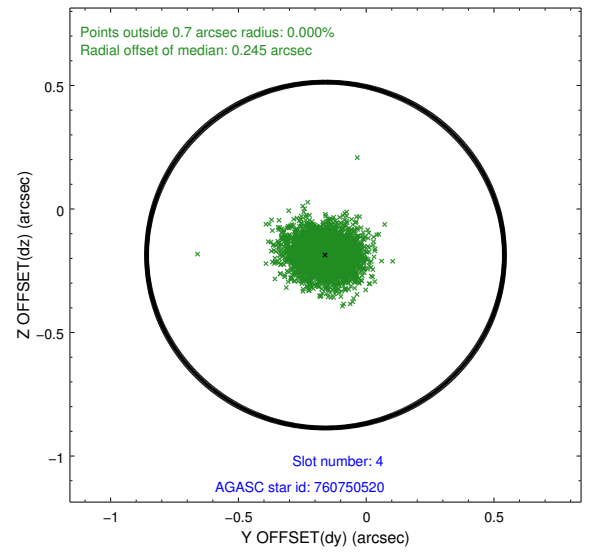
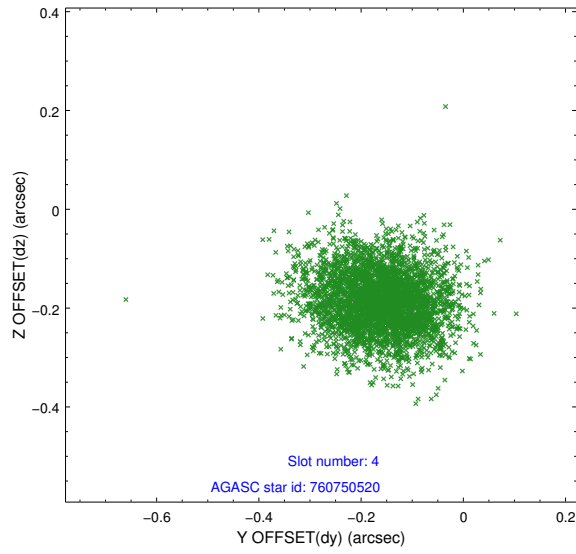
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1740	-0.024	-0.012	0.008	0.013	0.000000	0.000000	-755.40	-1728.75
1	FID	ACIS-S-4	7.20	1740	0.004	0.015	0.005	0.010	0.000000	0.000000	2157.54	178.93
2	FID	ACIS-S-5	7.24	1740	-0.012	0.006	0.007	0.012	0.000000	0.000000	-1807.19	173.51
3	GUIDE	686686632	9.23	3478	-0.123	0.157	0.075	0.121	337.506926	-7.400375	1544.30	-1730.92
4	GUIDE	760750520	9.84	3478	-0.159	-0.186	0.099	0.163	336.433014	-7.727895	1807.27	2269.49
5	GUIDE	760751888	8.81	3480	0.113	-0.165	0.070	0.117	336.919617	-8.232937	-508.41	1295.13
6	GUIDE	761661840	8.43	3476	0.200	0.043	0.094	0.155	337.482812	-8.418958	-1849.87	-340.41
7	GUIDE	761668240	9.51	3476	-0.023	0.149	0.099	0.157	337.634705	-7.720530	304.47	-1745.06

2.4 Star Slots

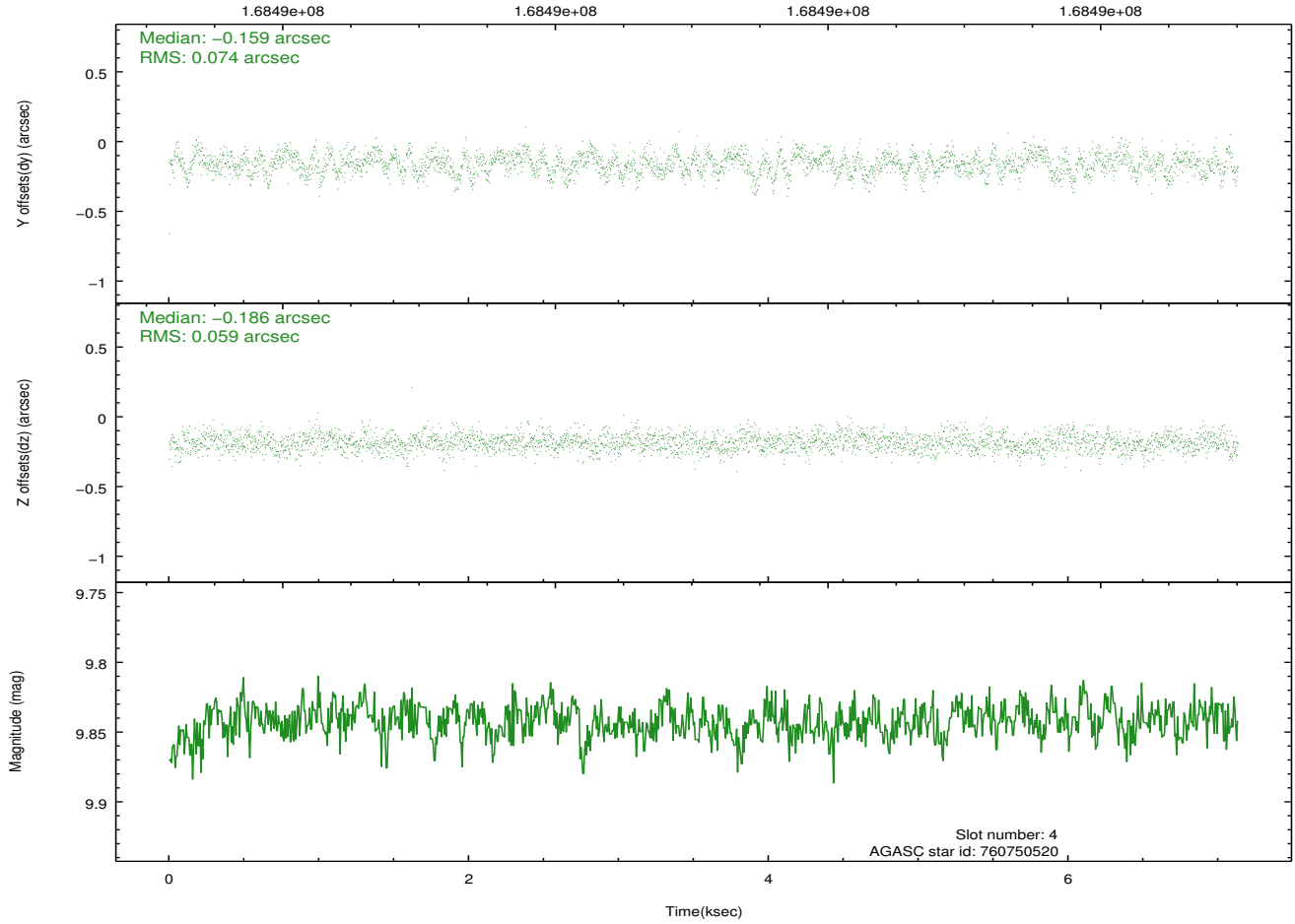
2.4.1 Slot 3



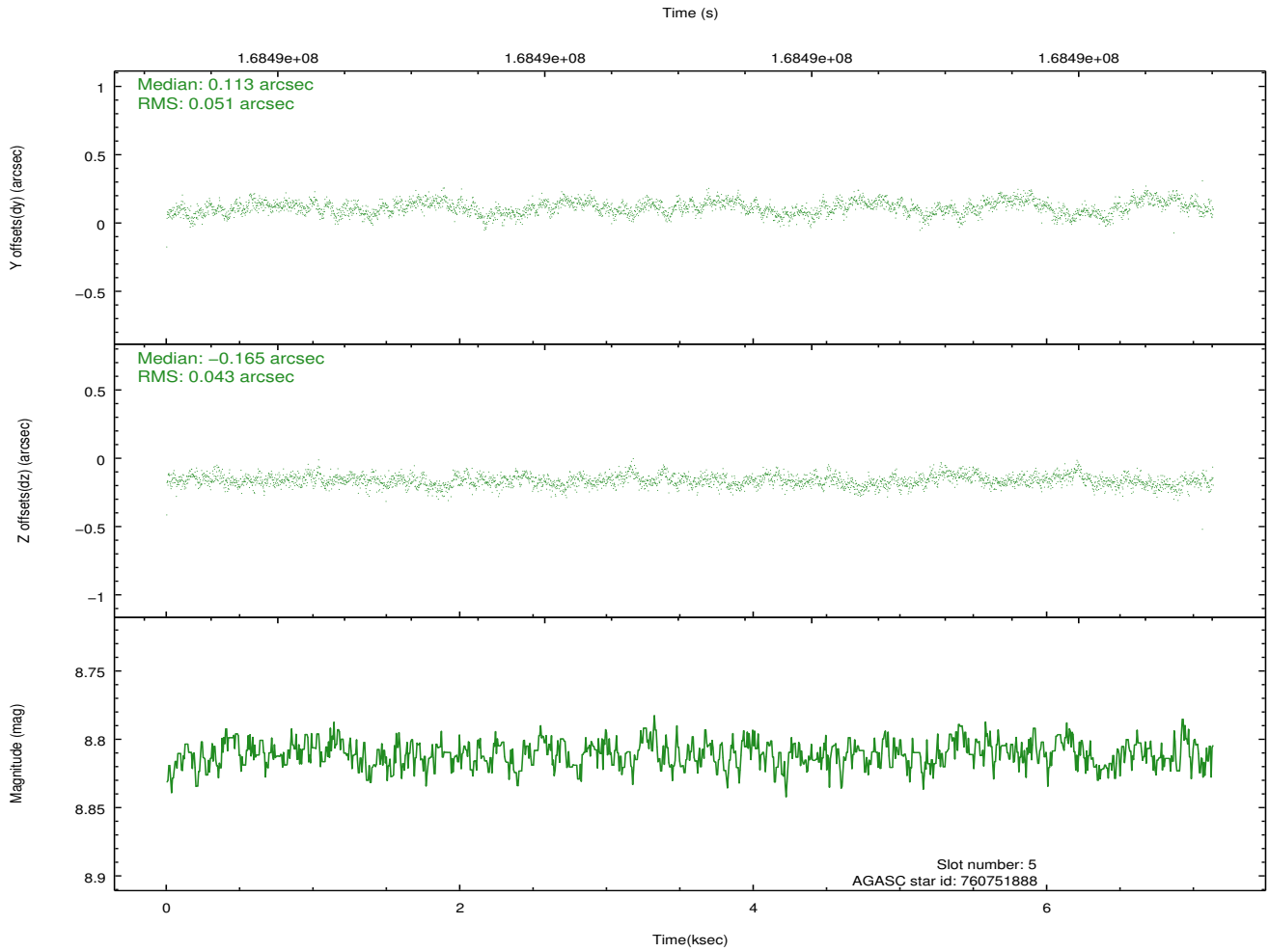
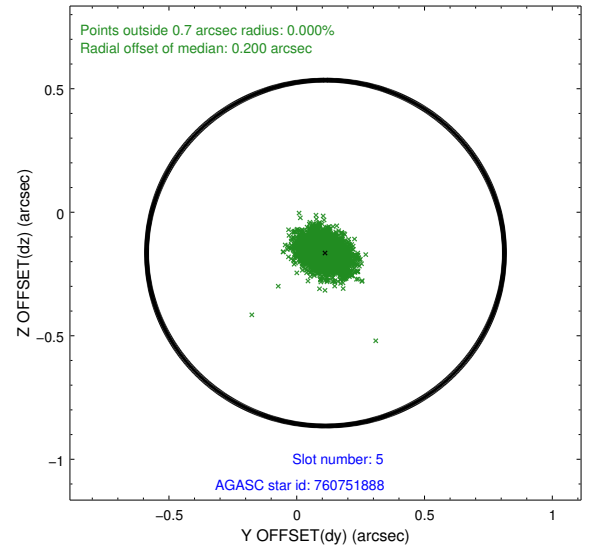
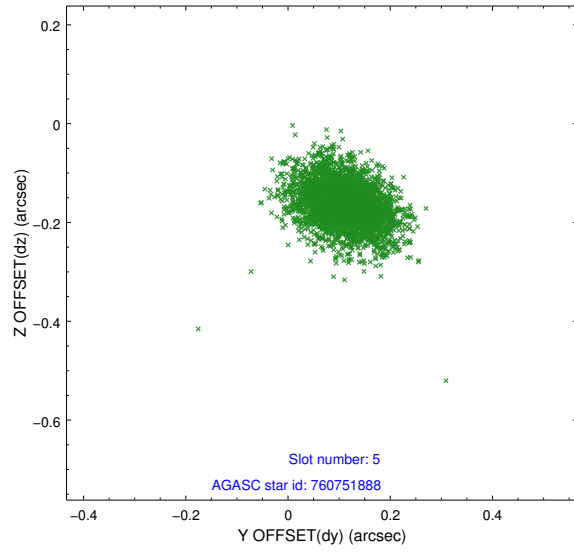
2.4.2 Slot 4



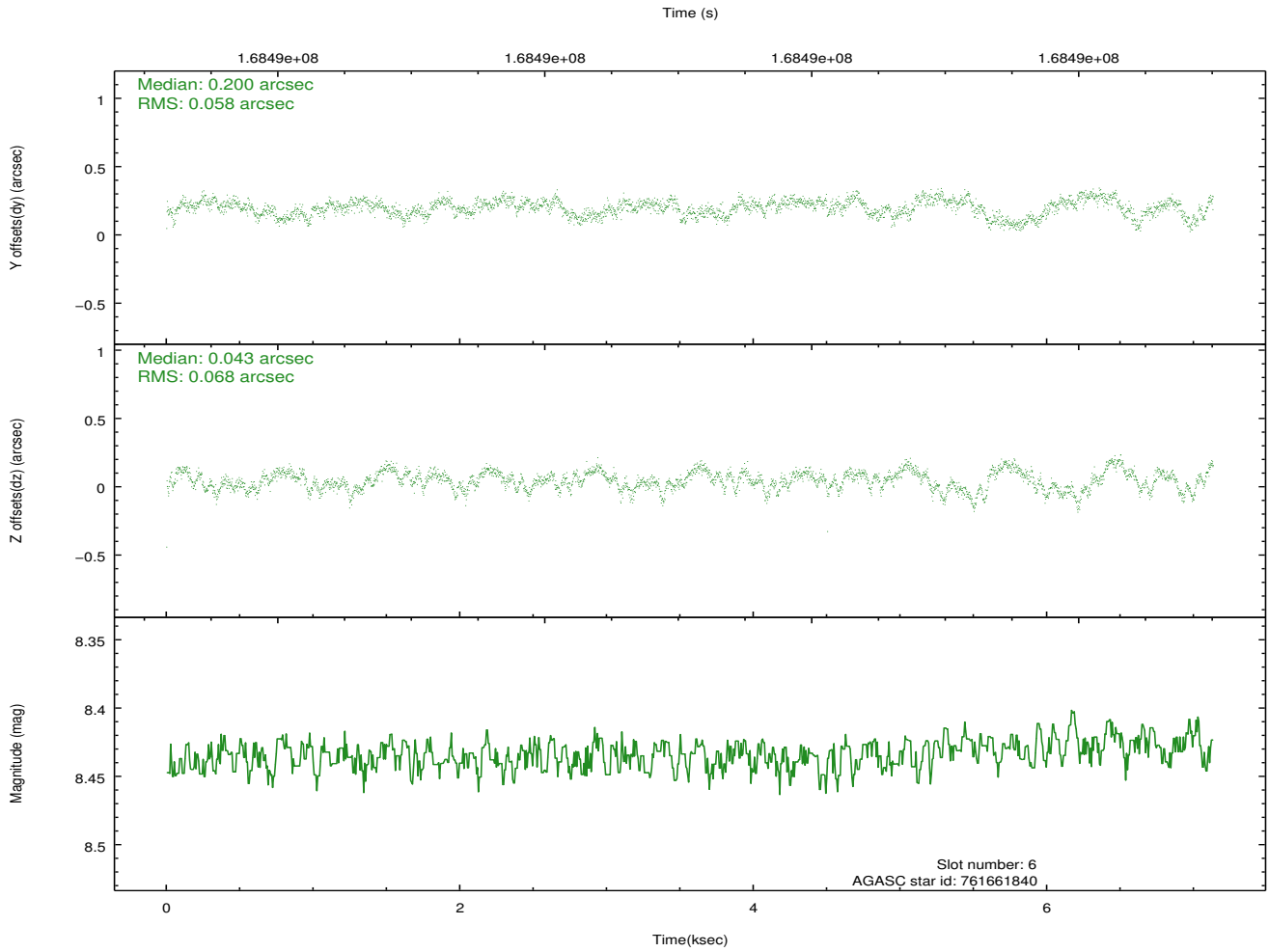
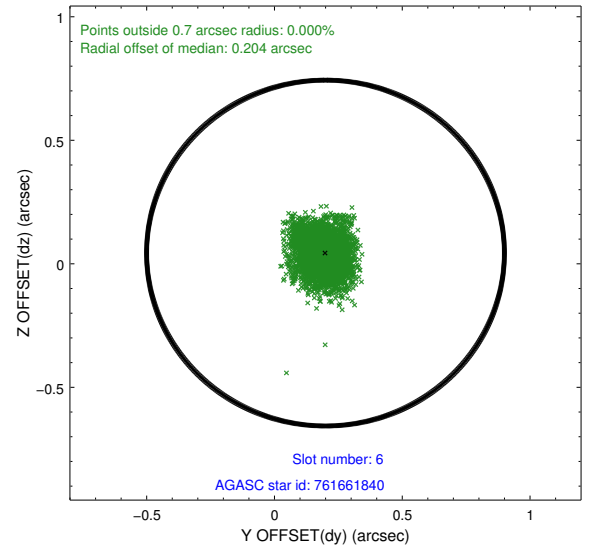
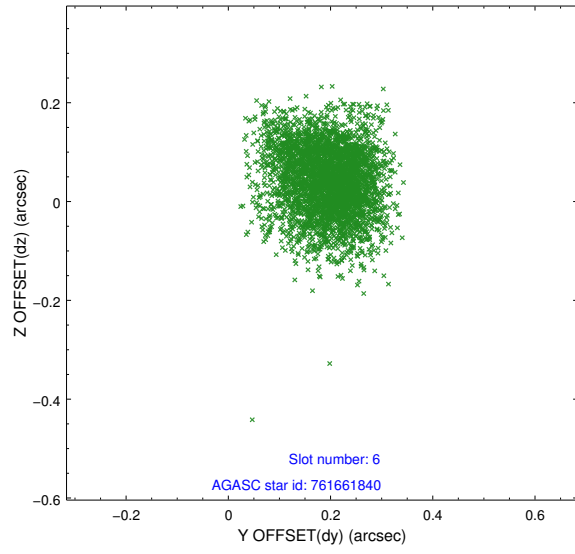
Time (s)



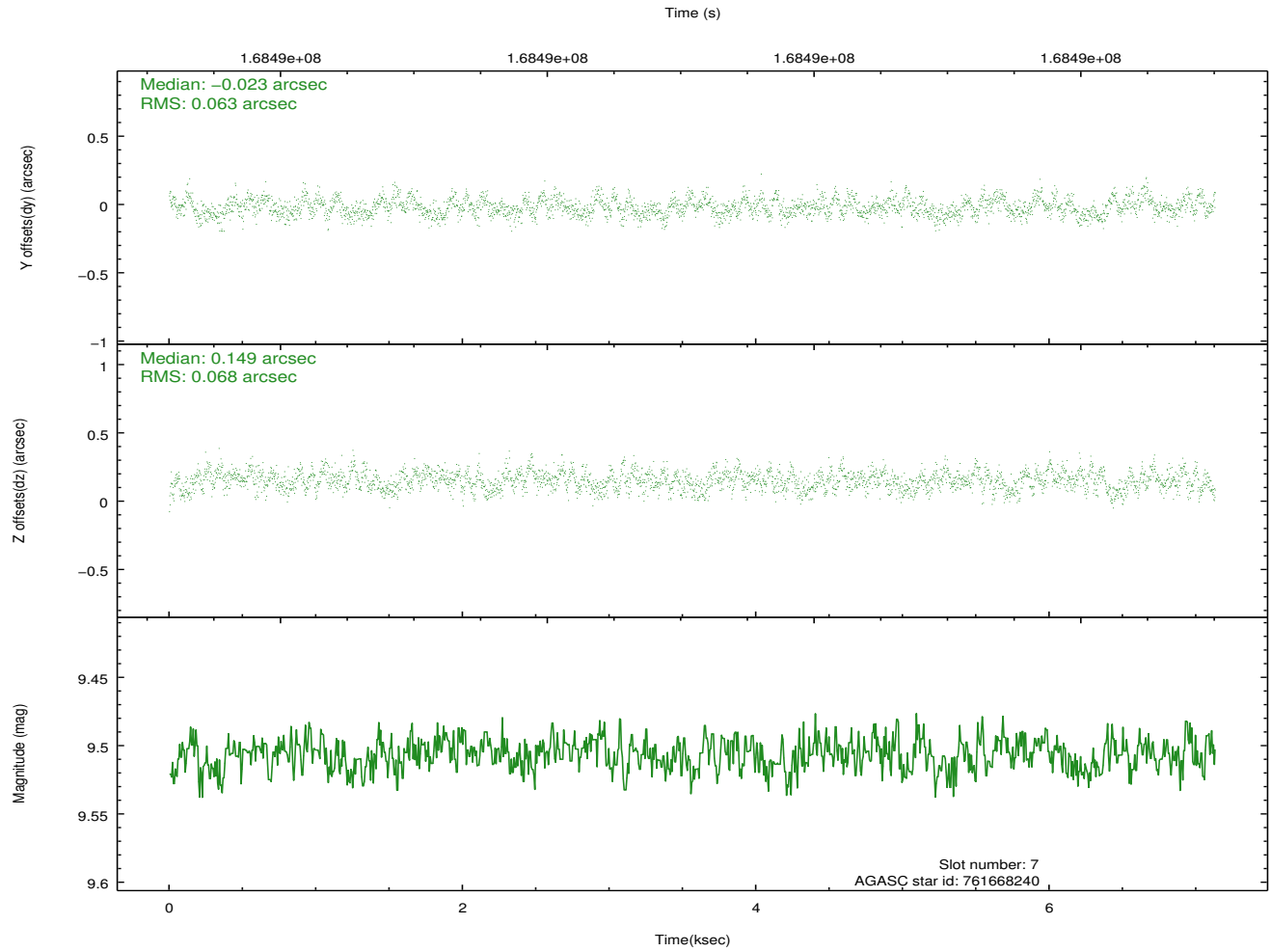
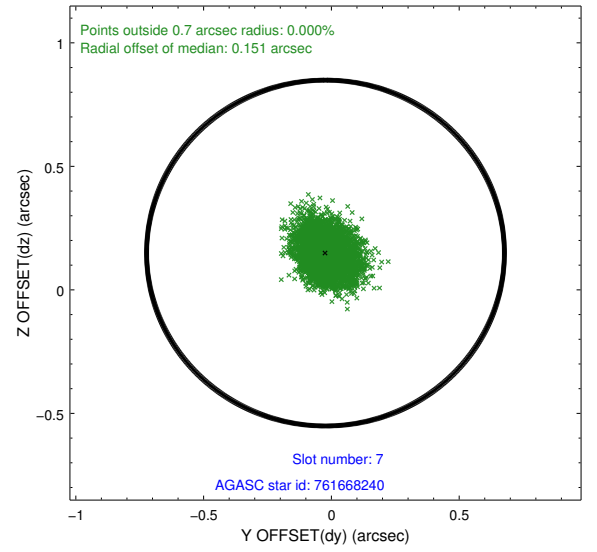
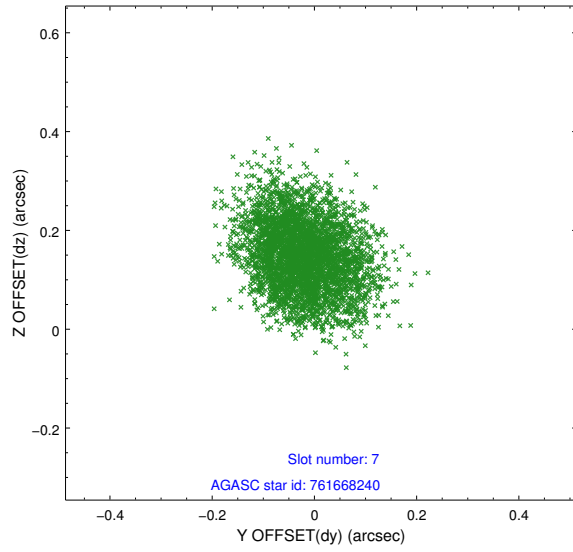
2.4.3 Slot 5



2.4.4 Slot 6

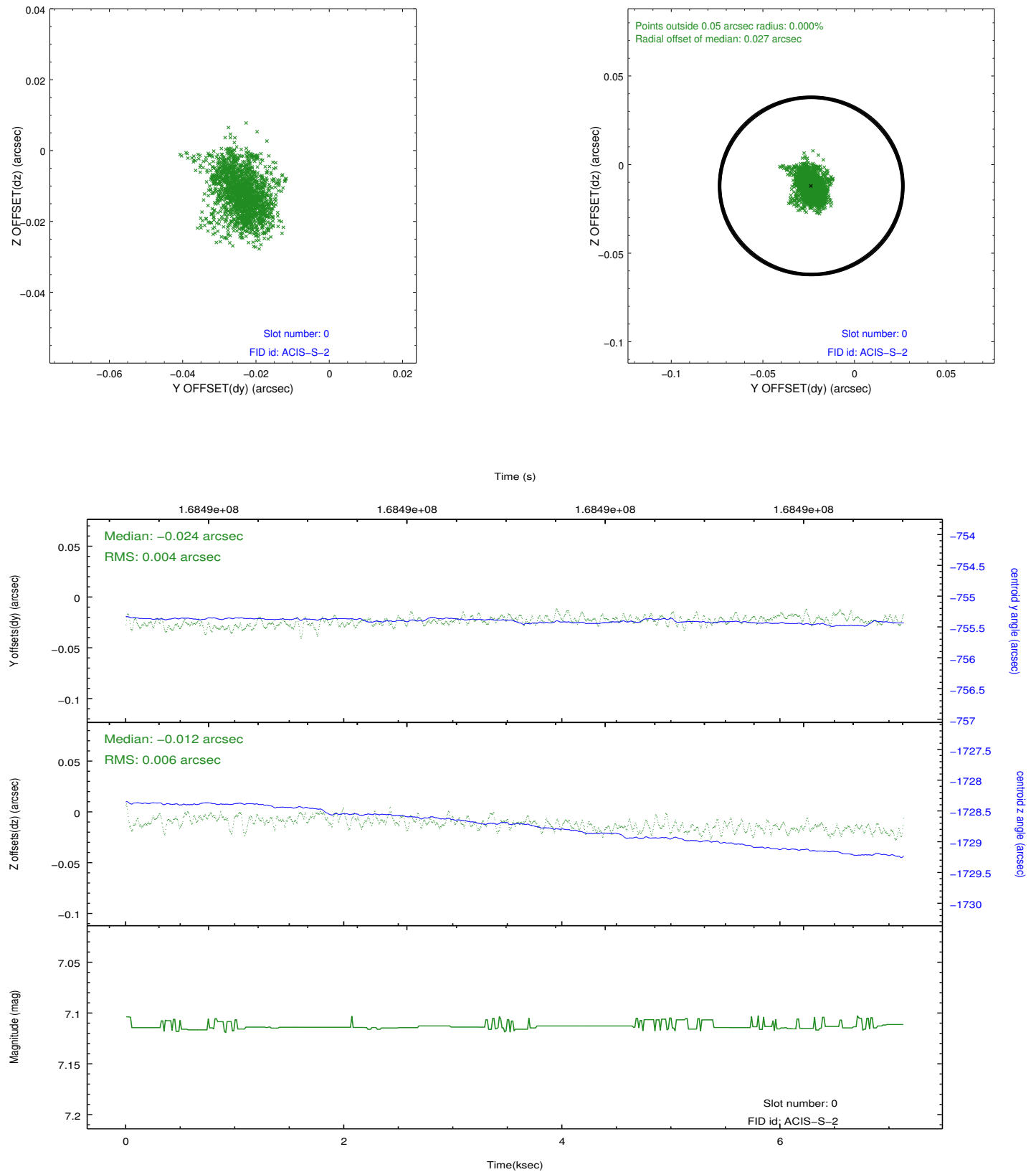


2.4.5 Slot 7

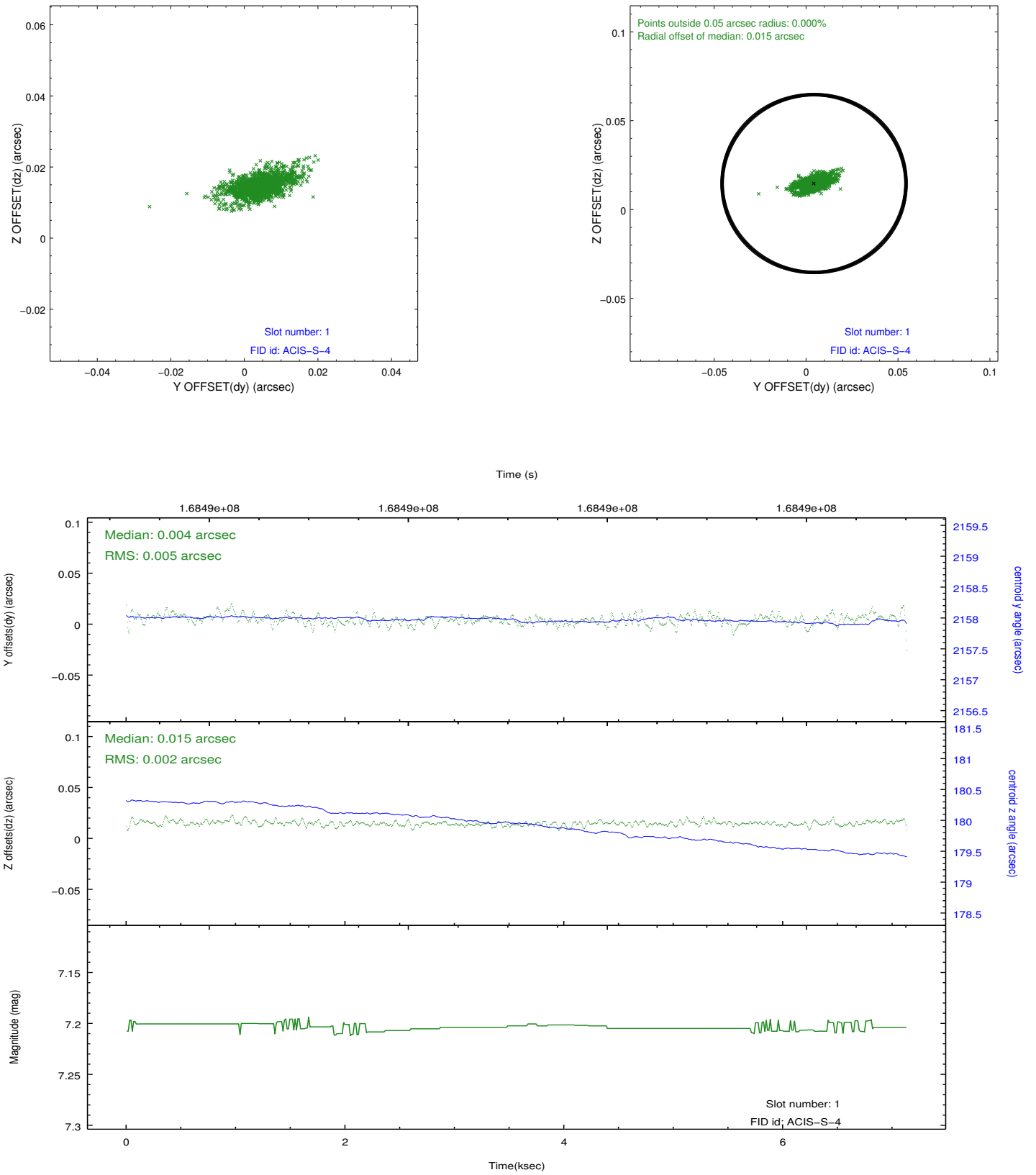


2.5 FID Slots

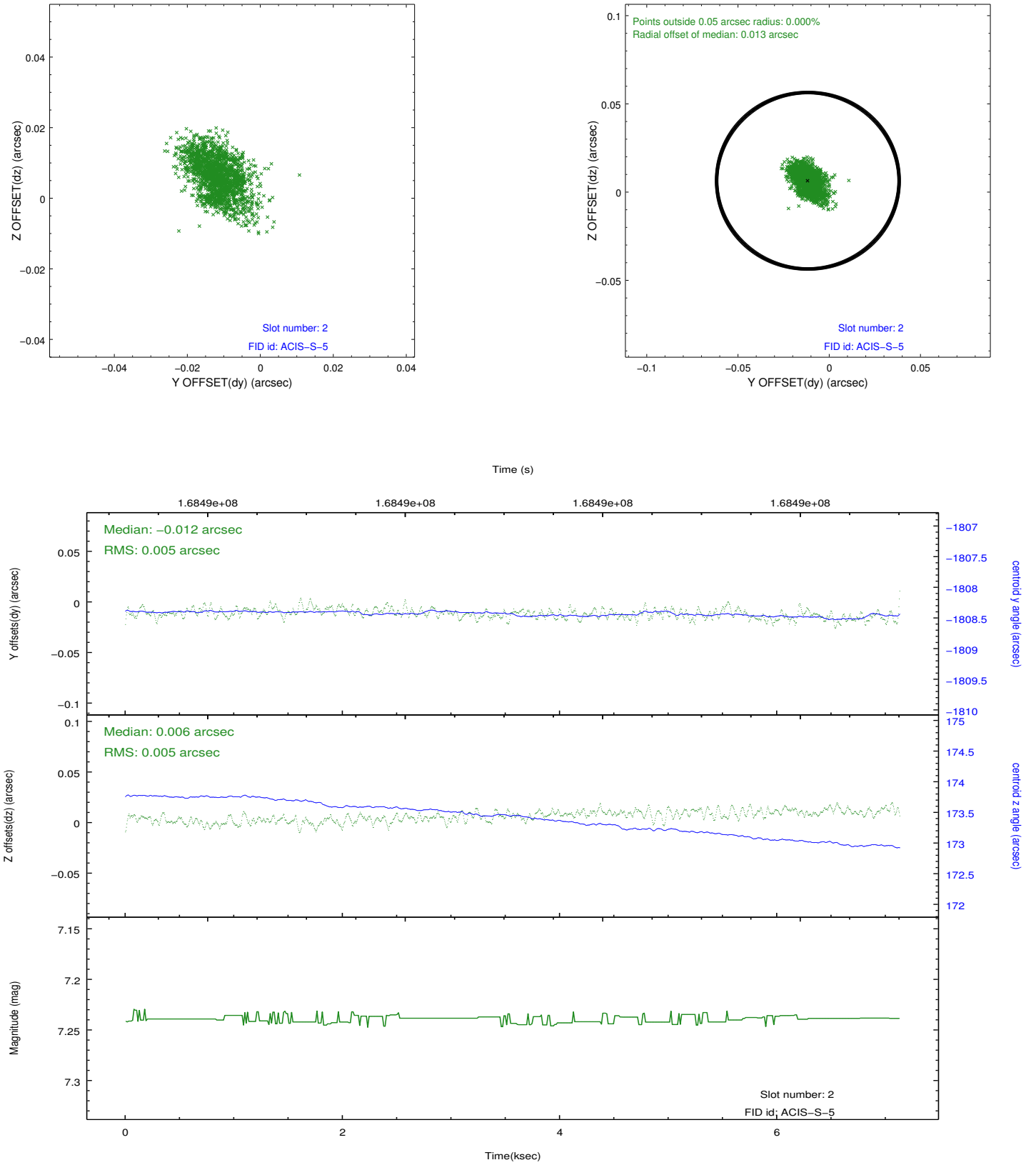
2.5.1 Slot 0



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)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.126

A.2 Comments