

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8038 - L2 Version 3
Chandra X-Ray Center

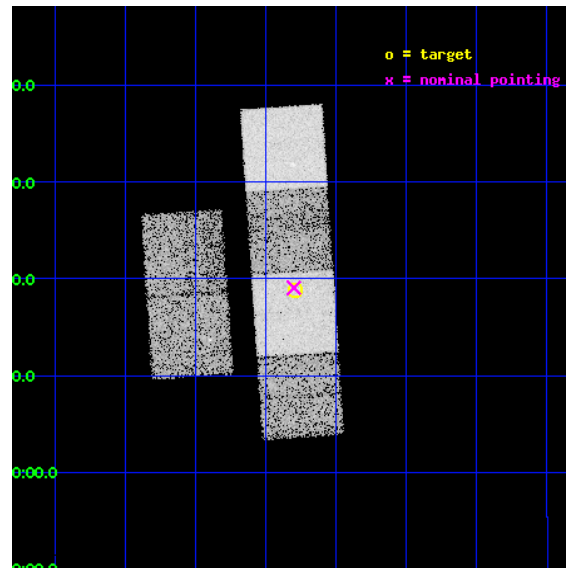
L2 Processing Date : Apr 20 2012

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1 Front

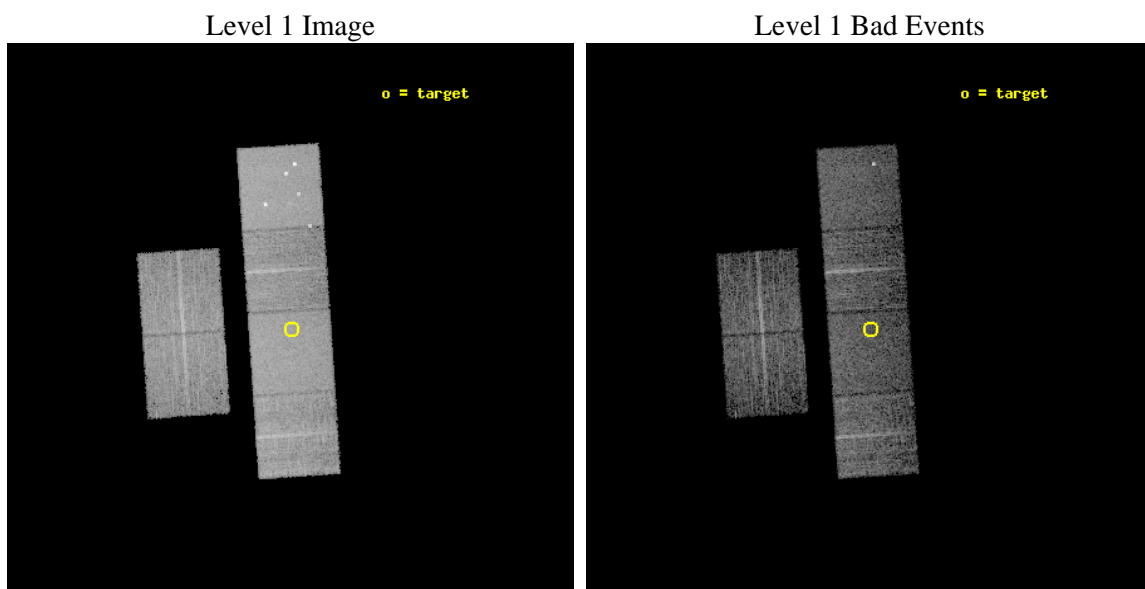
seq_num	900579	Sequence number
obs_id	8038	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	2092	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.072917	Observer's specified target RA [deg]
dec_targ	11.313889	Observer's specified target Dec [deg]
ra_nom	193.07485495024	Nominal RA [deg]
dec_nom	11.317910004685	Nominal Dec [deg]
roll_nom	86.102103922428	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5036.4201396704	Sum of GTIs [s]
livetime	4972.6459552937	Livetime [s]
ontime2	5036.4611796737	Sum of GTIs [s]
ontime3	5036.2970196605	Sum of GTIs [s]
ontime5	5036.3790996671	Sum of GTIs [s]
ontime6	5036.3380596638	Sum of GTIs [s]
ontime7	5036.4201396704	Sum of GTIs [s]
ontime8	5036.2559796572	Sum of GTIs [s]
l2events	94370	Number of level 2 events



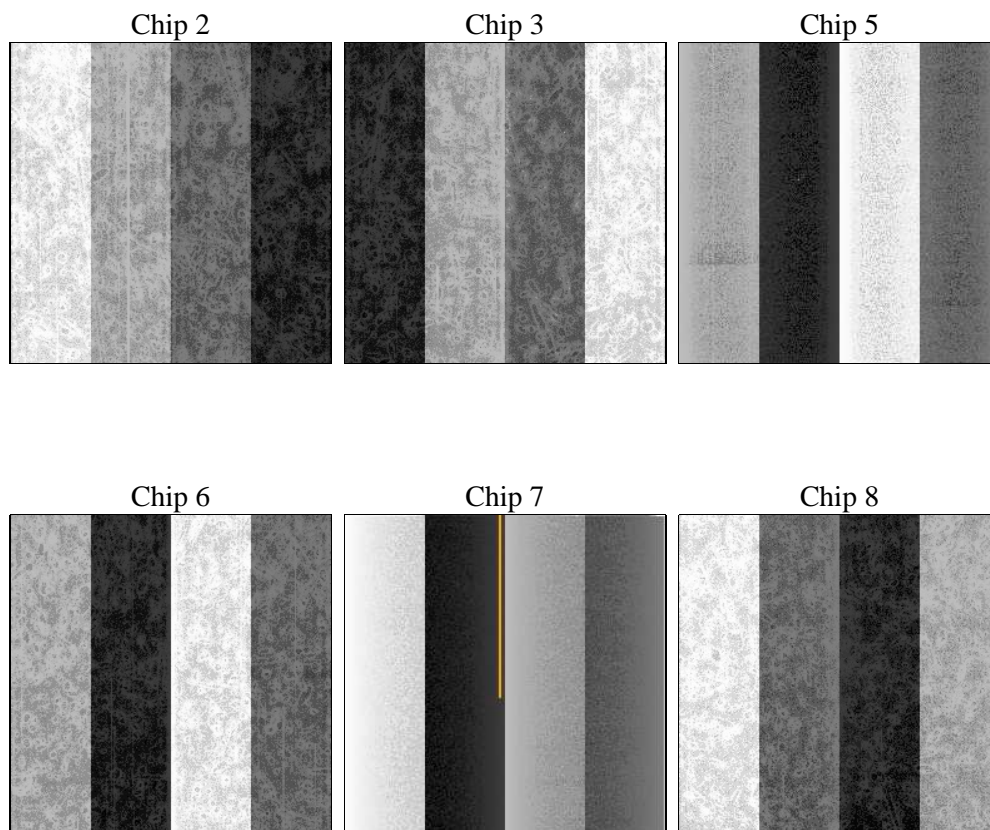
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5080.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5036.4201396704	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5036.4611796737	Sum of GTIs [s]
date	2012-04-20T04:26:36	Date and time of file creation	ontime3	5036.2970196605	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5036.3790996671	Sum of GTIs [s]
			ontime6	5036.3380596638	Sum of GTIs [s]
			ontime7	5036.4201396704	Sum of GTIs [s]
			ontime8	5036.2559796572	Sum of GTIs [s]
			l1events	355783	Number of level 1 events

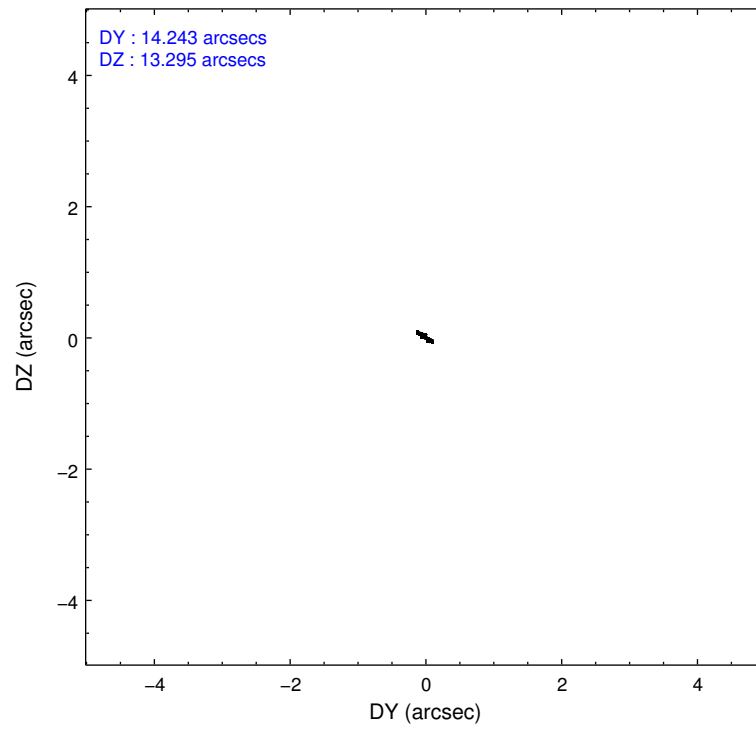
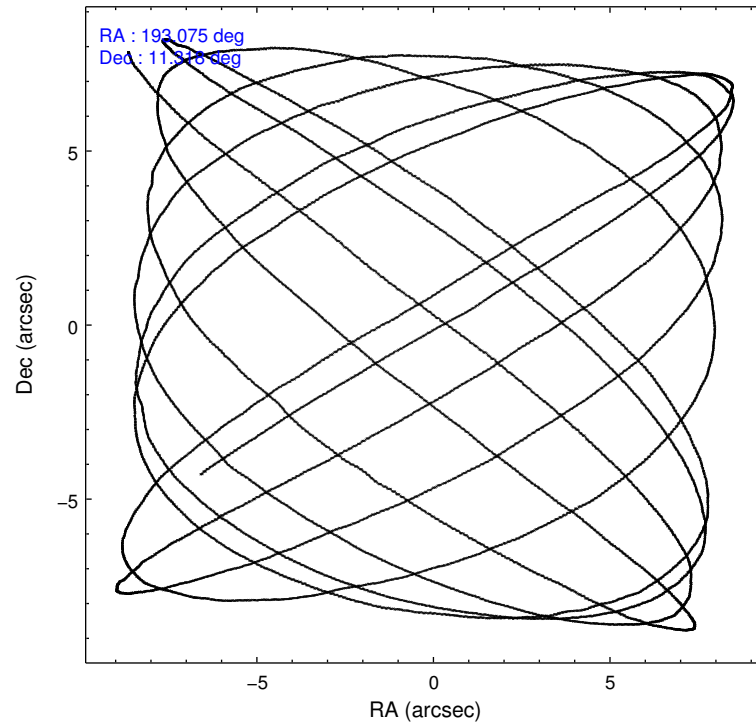
2.1.4 Events

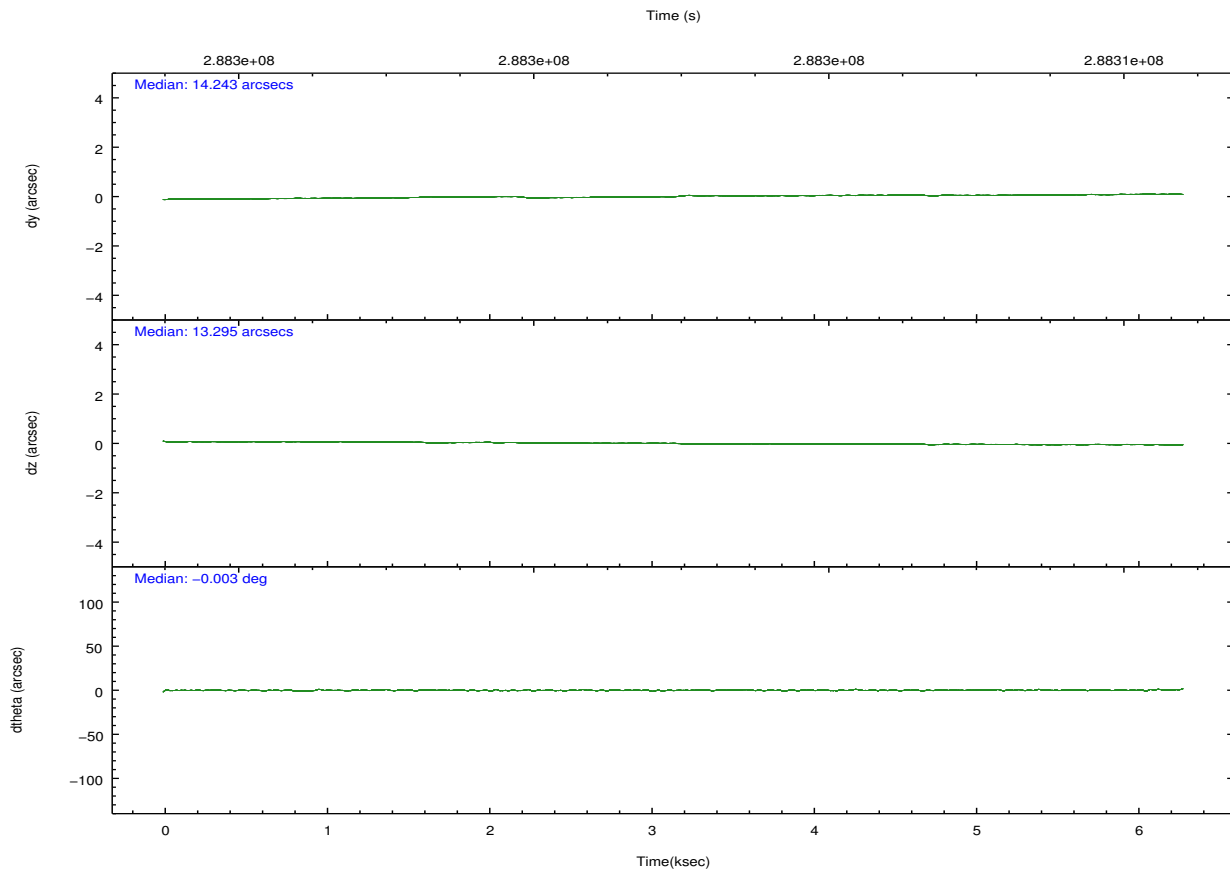
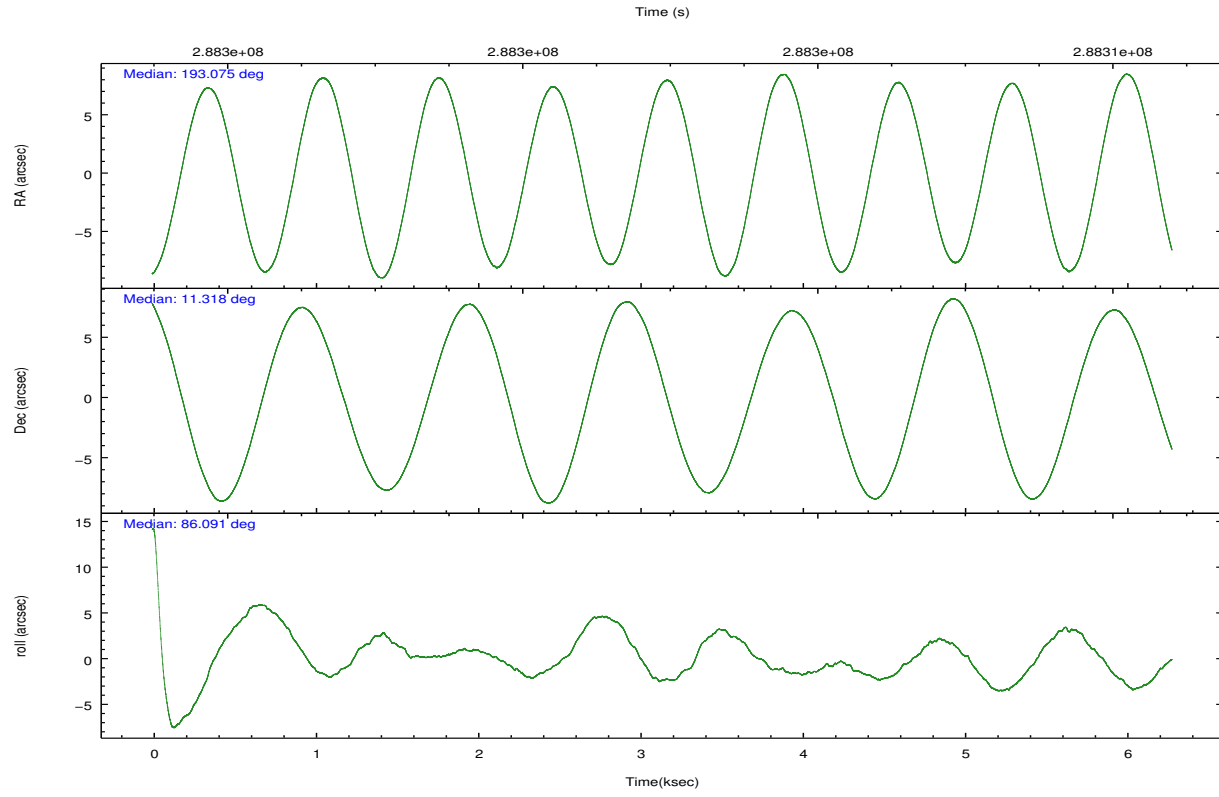
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49754	46897	79932	48201	68328	62671	grade 0 events	4250	4575	5872	4304	2748	6421
rejected events	42006	38681	39718	39808	37495	46635		8%	9%	7%	8%	4%	10%
rejected %	84%	82%	49%	82%	54%	74%	grade 1 events	45	42	142	44	68	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1352	1325	12293	1556	5971	3153
								2%	2%	15%	3%	8%	5%
							grade 3 events	548	626	1331	690	2505	1540
								1%	1%	1%	1%	3%	2%
							grade 4 events	568	559	1412	577	2510	1439
								1%	1%	1%	1%	3%	2%
							grade 5 events	1905	2084	5434	2181	6015	2828
								3%	4%	6%	4%	8%	4%
							grade 6 events	1034	1135	19338	1274	17118	3497
								2%	2%	24%	2%	25%	5%
							grade 7 events	40052	36551	34110	37575	31393	43742
								80%	77%	42%	77%	45%	69%

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	193.087457	193.074854950238	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.293502	11.31791000468545	Alternating exposures requested	N	N
[deg] Pointing Roll	85.943004	86.10210392242753	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	288300999.184000	288299527.17166			
Observation start date	2007-02-19T19:35:34	2007-02-19T19:12:07			
[s] Observation end time (MET)	288306079.184000	288306422.85949			
Observation end date	2007-02-19T21:00:14	2007-02-19T21:07:02			
Read mode	TIMED	TIMED			

2.3 Aspect



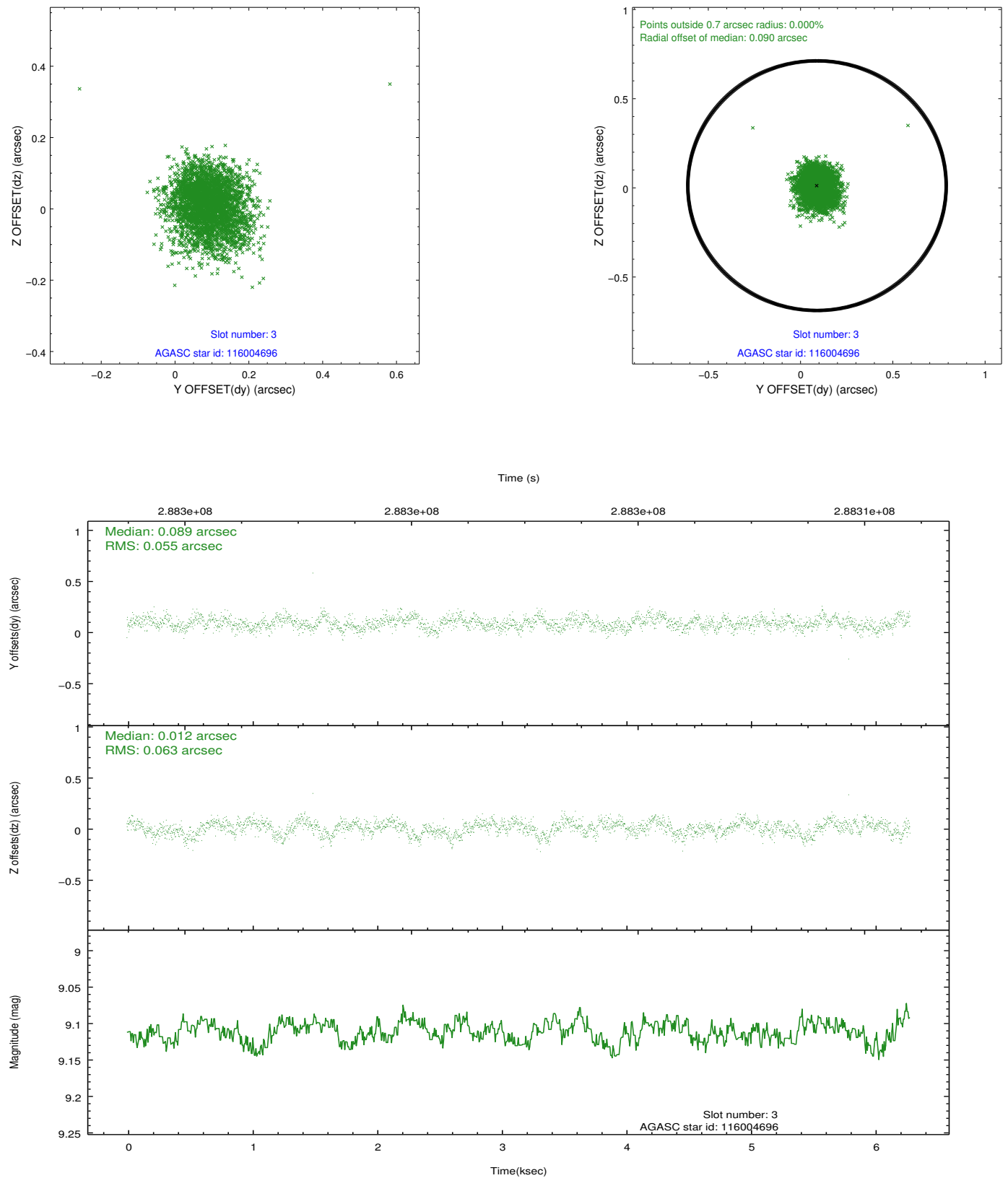


Slot Statistics

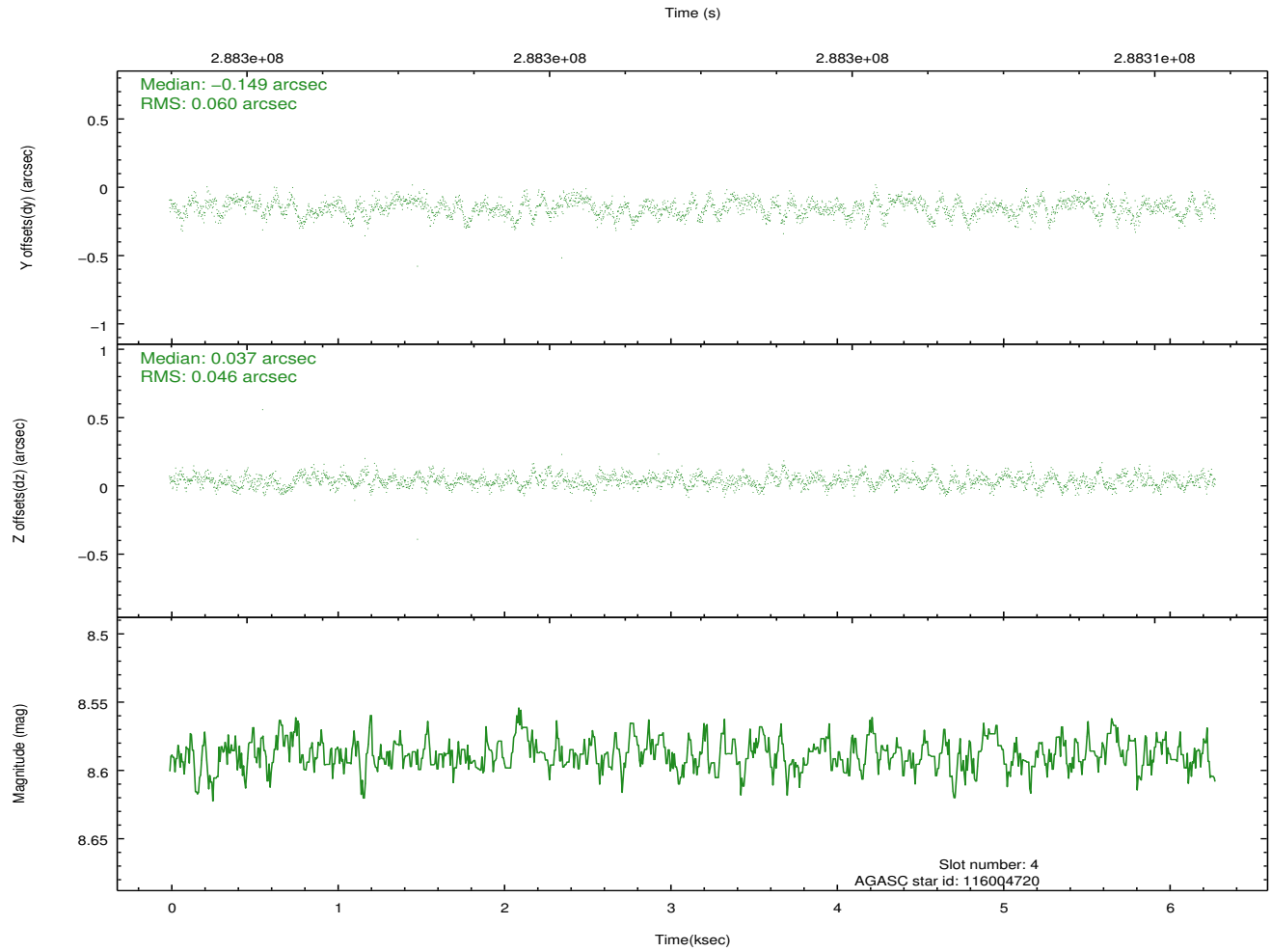
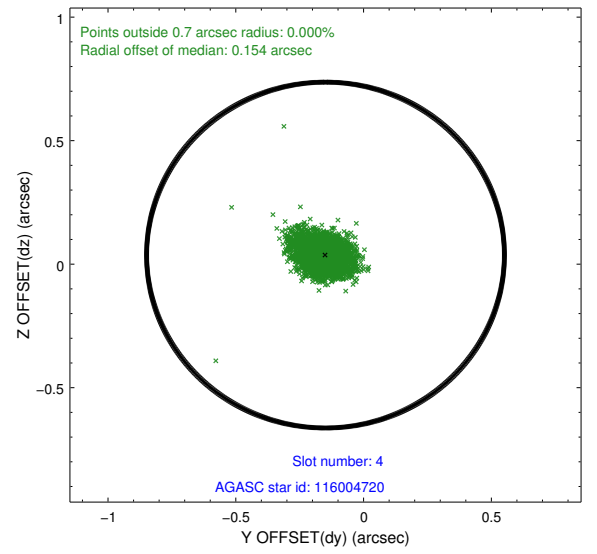
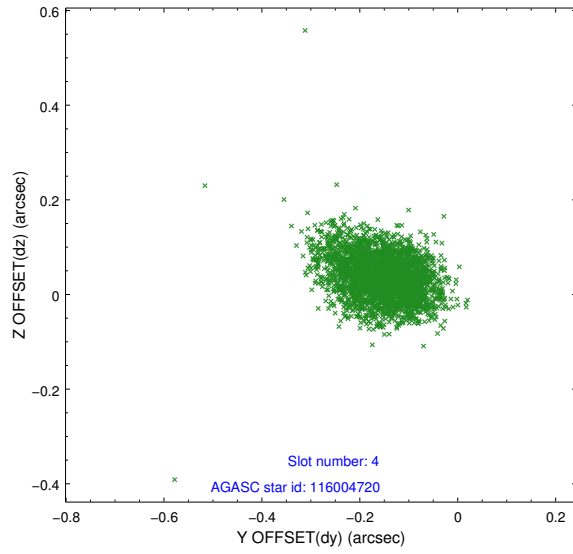
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1533	-0.053	-0.067	0.007	0.012	0.000000	0.000000	-767.27	-1734.63
1	FID	ACIS-S-4	7.20	1533	0.185	0.043	0.006	0.012	0.000000	0.000000	2145.84	172.95
2	FID	ACIS-S-5	7.23	1533	-0.163	0.032	0.006	0.011	0.000000	0.000000	-1819.00	167.73
3	GUIDE	116004696	9.11	3061	0.089	0.012	0.088	0.141	193.280153	11.219447	-217.24	-697.08
4	GUIDE	116004720	8.59	3065	-0.149	0.037	0.078	0.130	193.637655	11.906876	2341.78	-1776.30
5	GUIDE	116005040	9.49	3064	0.199	0.116	0.094	0.154	193.170570	11.209691	-278.81	-314.22
6	GUIDE	116006760	9.33	3066	0.022	-0.300	0.109	0.166	192.469200	10.995733	-1221.91	2103.35
7	GUIDE	116007840	9.19	3060	-0.159	0.142	0.103	0.165	193.722048	11.481140	834.74	-2183.72

2.4 Star Slots

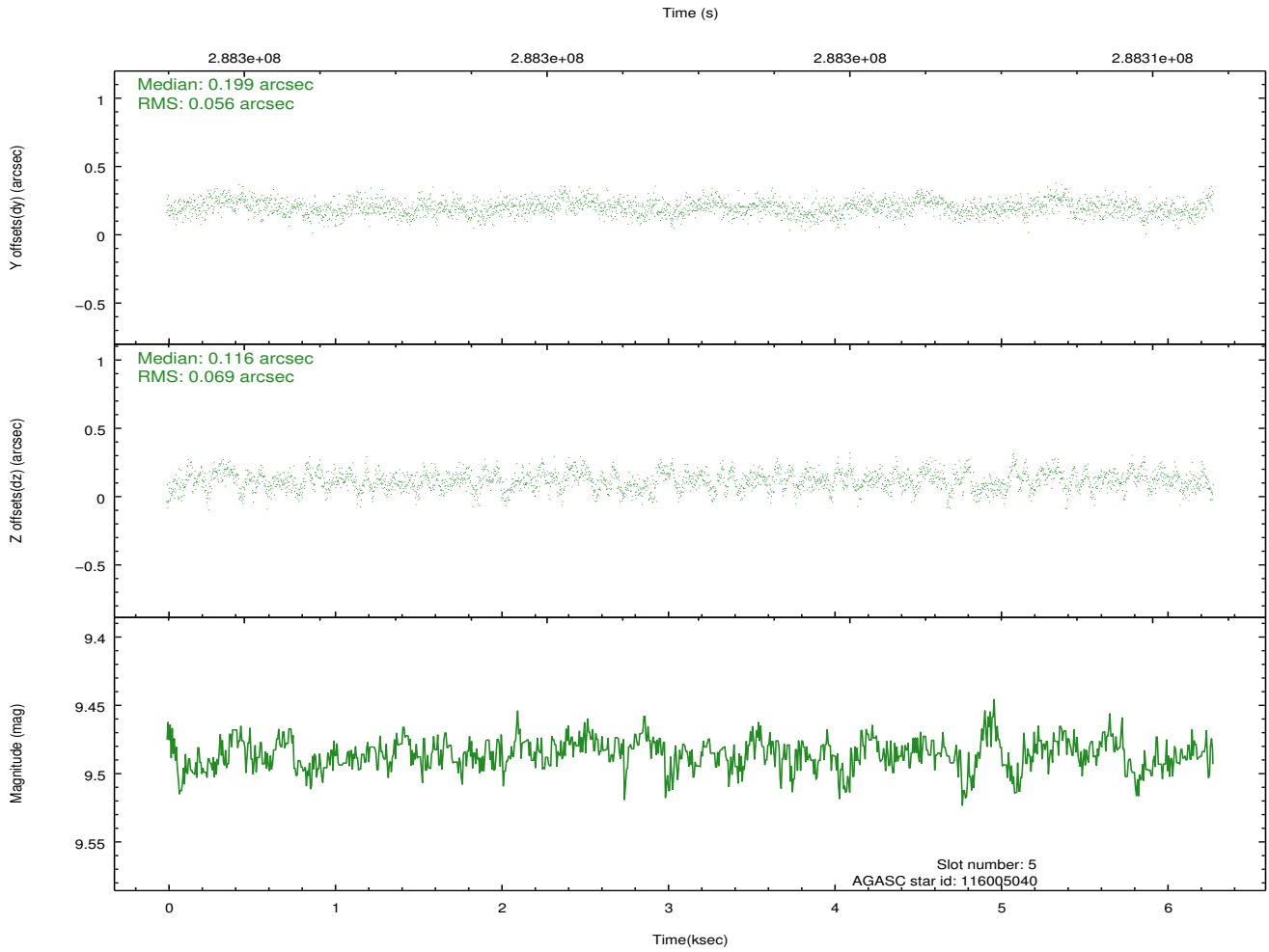
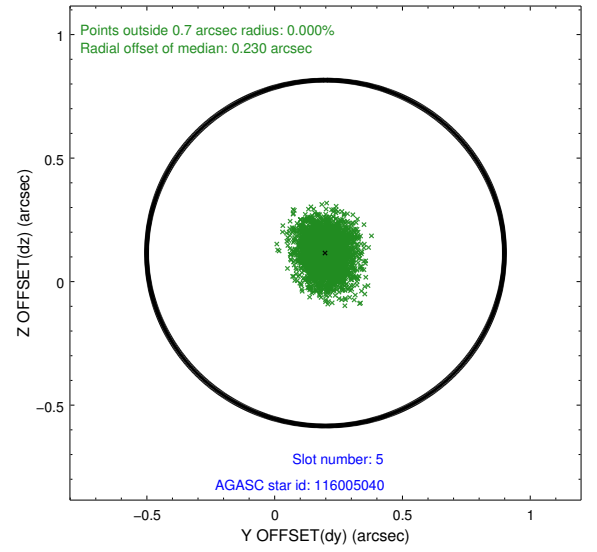
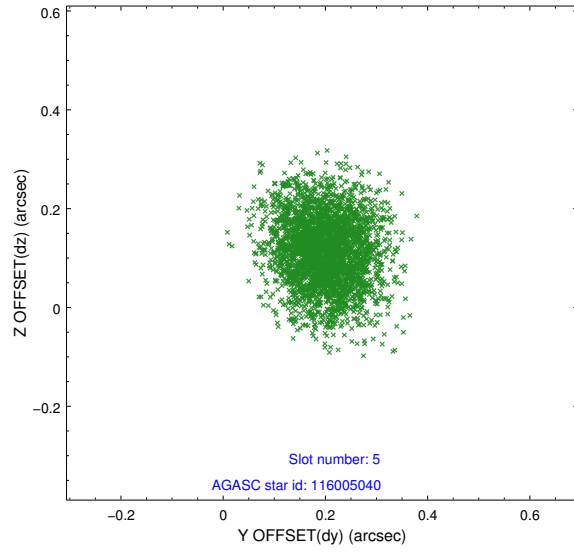
2.4.1 Slot 3



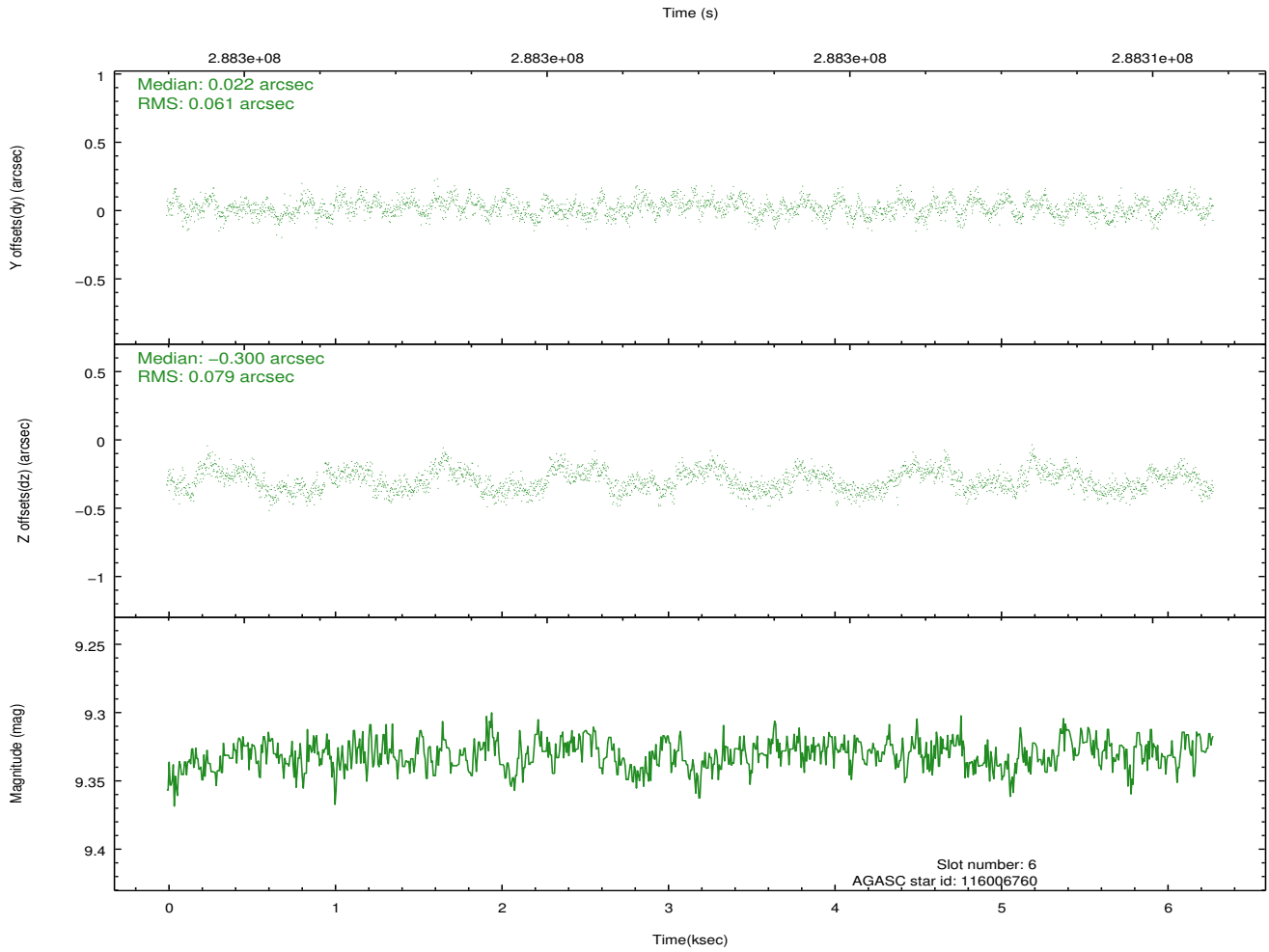
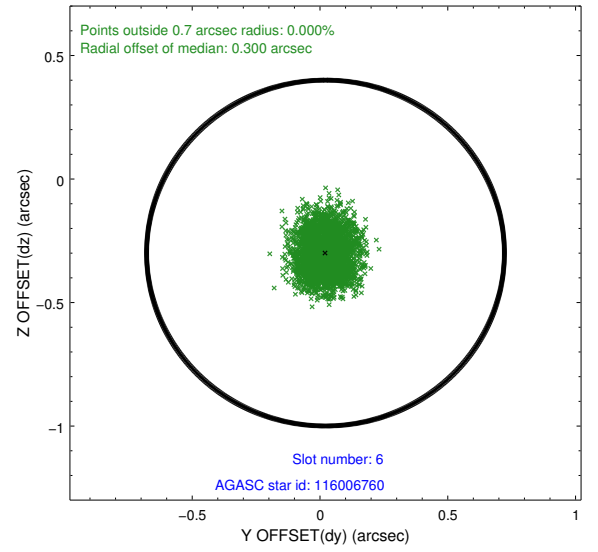
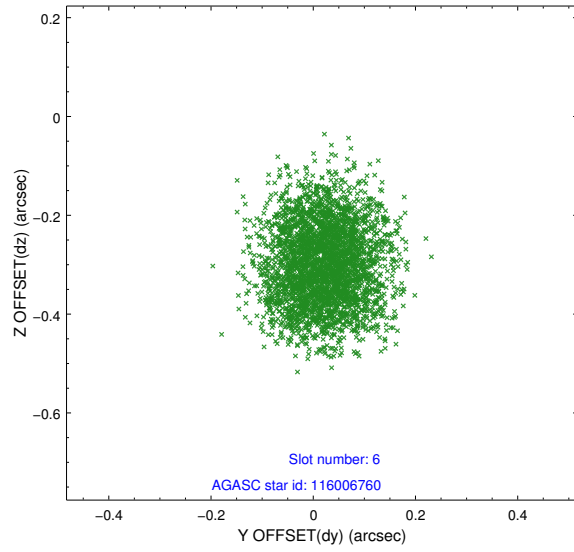
2.4.2 Slot 4



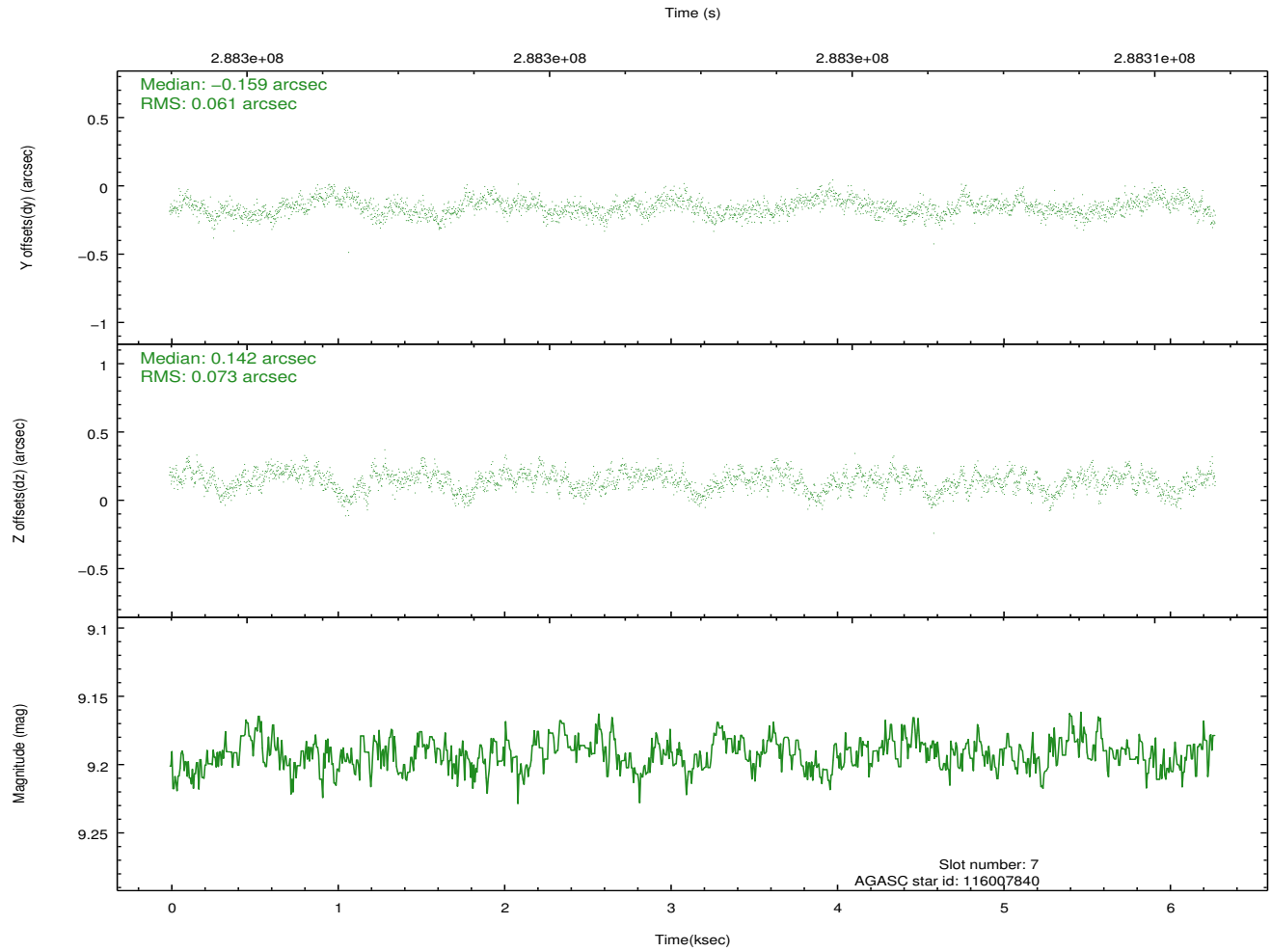
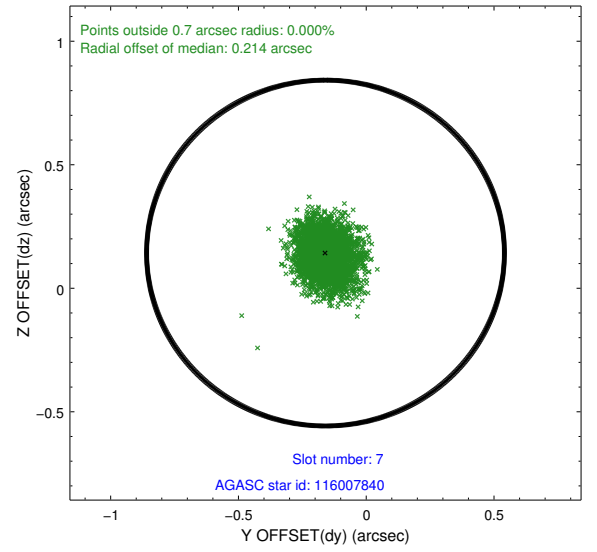
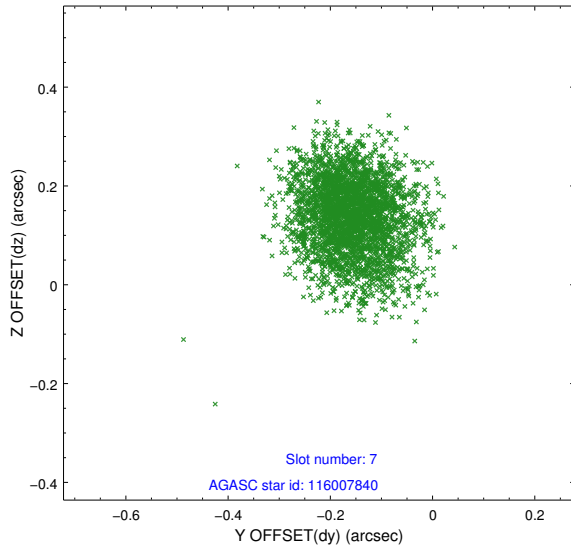
2.4.3 Slot 5



2.4.4 Slot 6

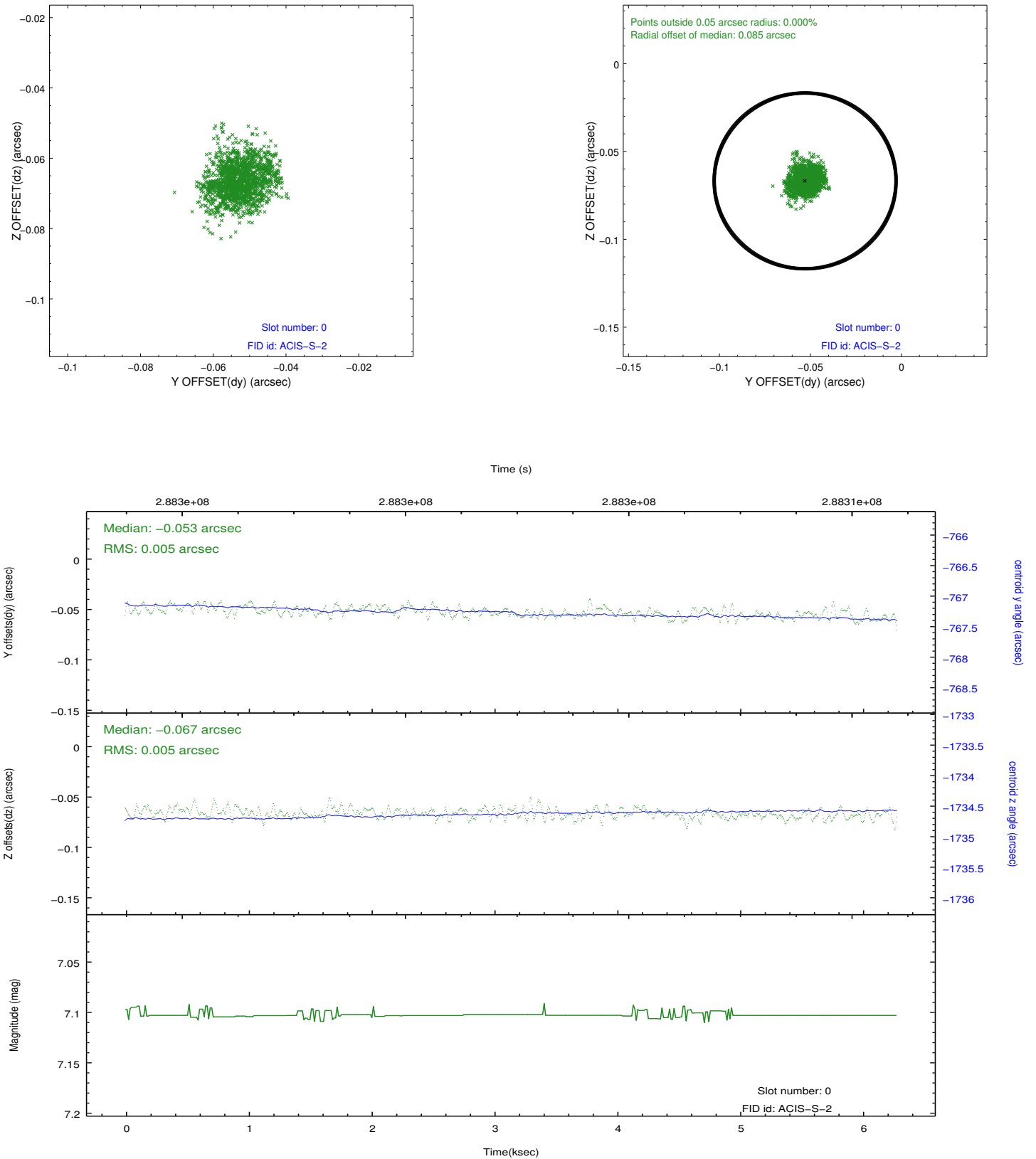


2.4.5 Slot 7

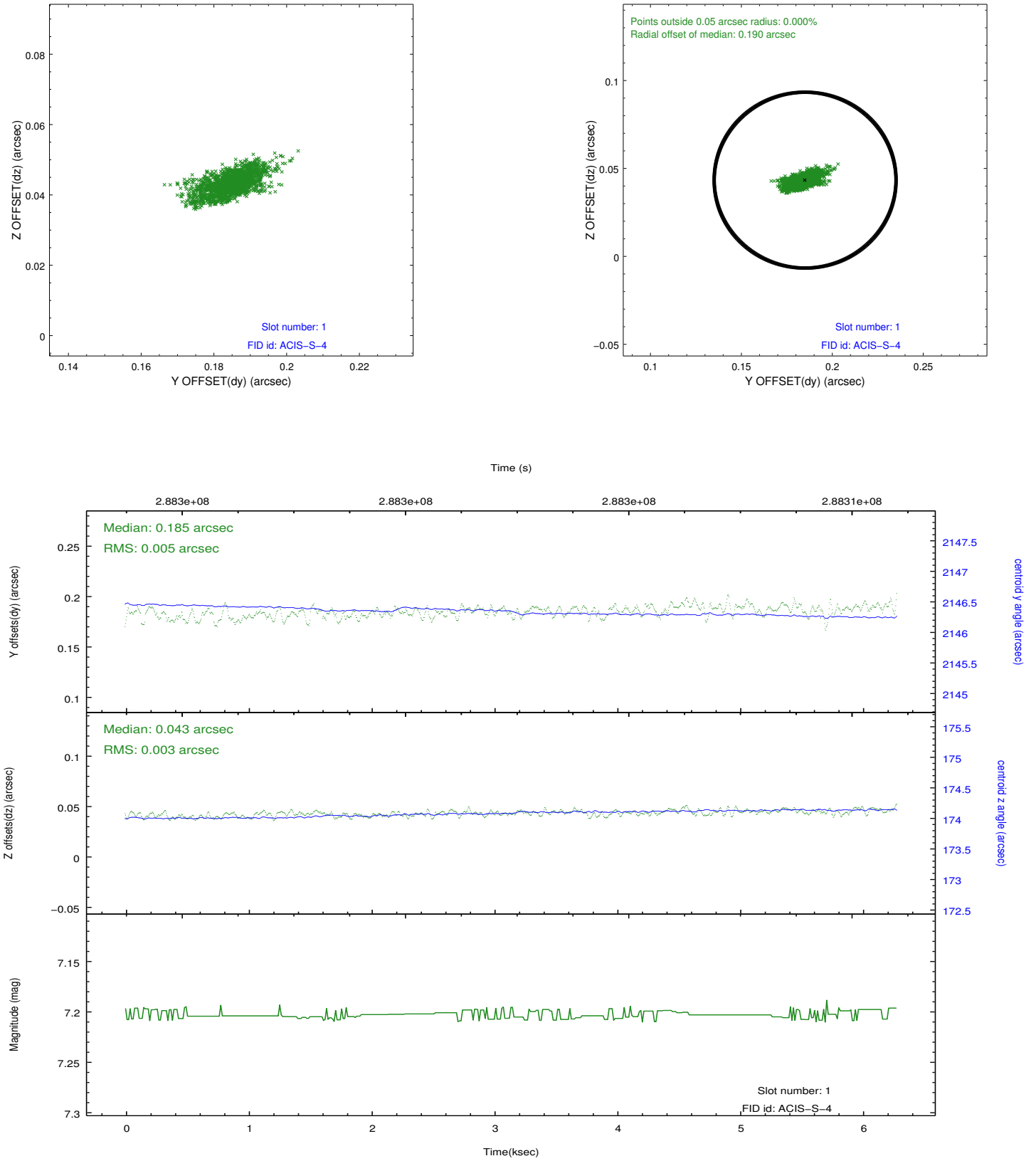


2.5 FID Slots

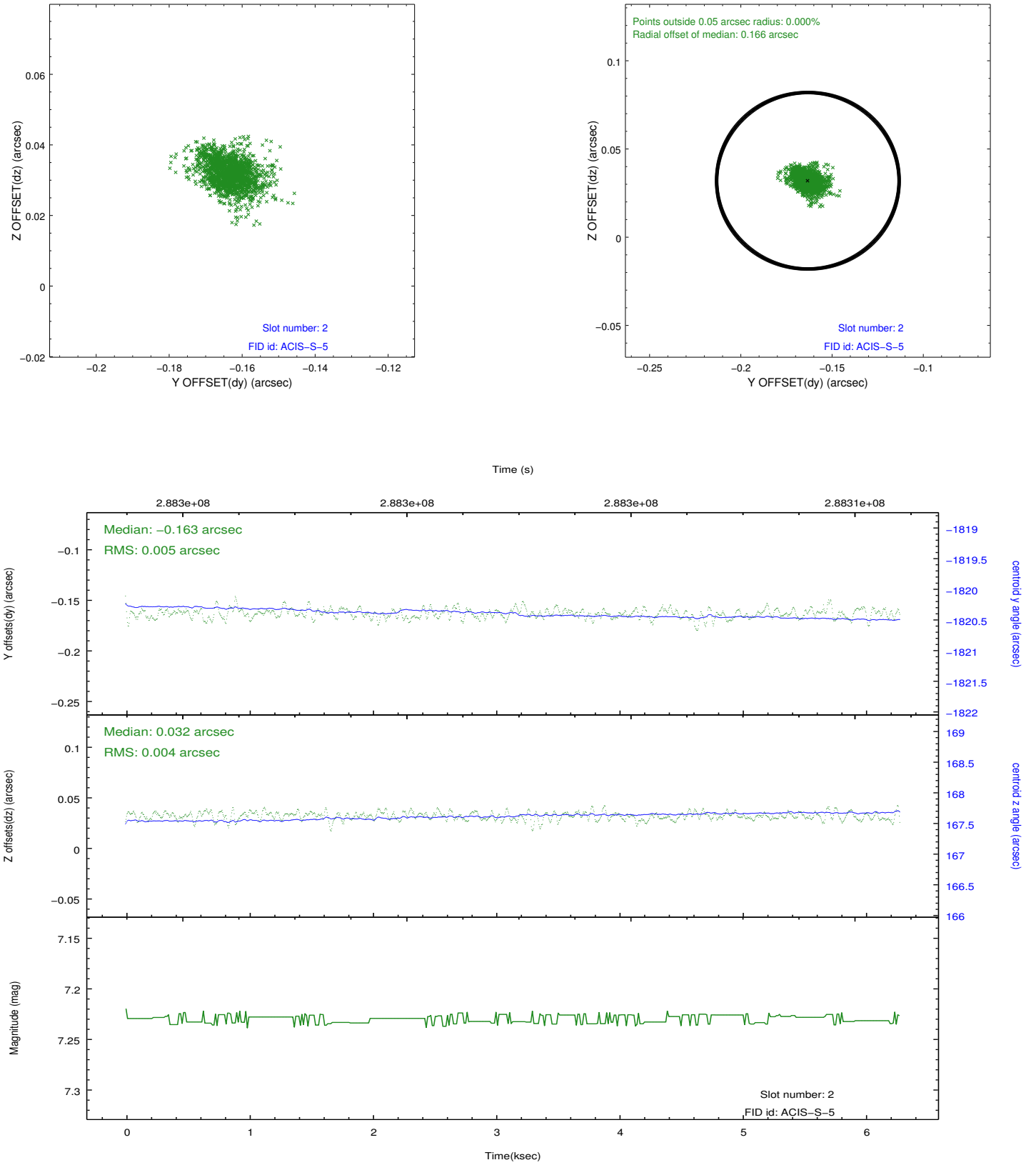
2.5.1 Slot 0



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)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.03679998

A.2 Comments

Joint proposal with Spitzer.