

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8086 - L2 Version 3
Chandra X-Ray Center

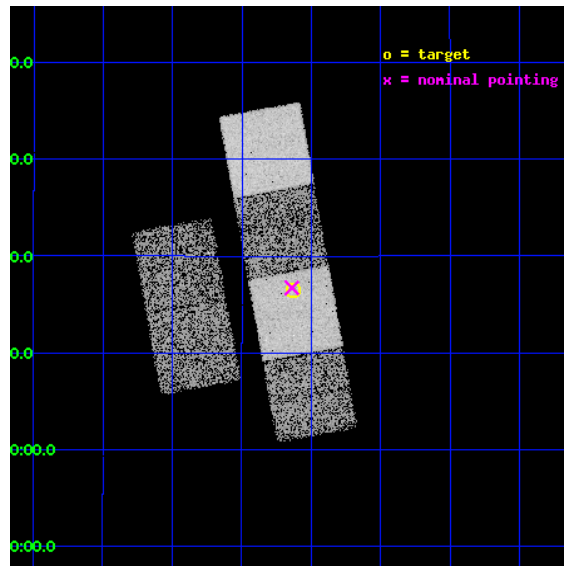
L2 Processing Date : Apr 19 2012

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1 Front

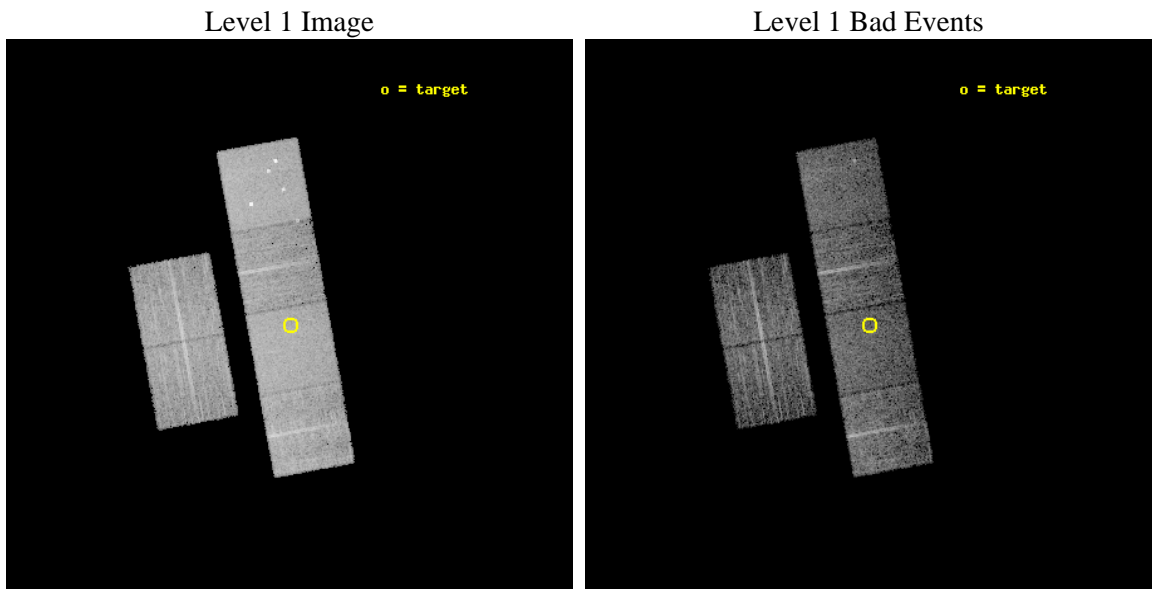
seq_num	900627	Sequence number
obs_id	8086	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.7825	Observer's specified target RA [deg]
dec_targ	14.274944	Observer's specified target Dec [deg]
ra_nom	182.7848345997	Nominal RA [deg]
dec_nom	14.278678983596	Nominal Dec [deg]
roll_nom	79.793340128104	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5225.5999805927	Sum of GTIs [s]
livetime	5159.4302871599	Livetime [s]
ontime2	5225.5999805927	Sum of GTIs [s]
ontime3	5225.5999805927	Sum of GTIs [s]
ontime5	5225.5999805927	Sum of GTIs [s]
ontime6	5225.5999805927	Sum of GTIs [s]
ontime7	5225.5999805927	Sum of GTIs [s]
ontime8	5225.5999805927	Sum of GTIs [s]
l2events	74513	Number of level 2 events



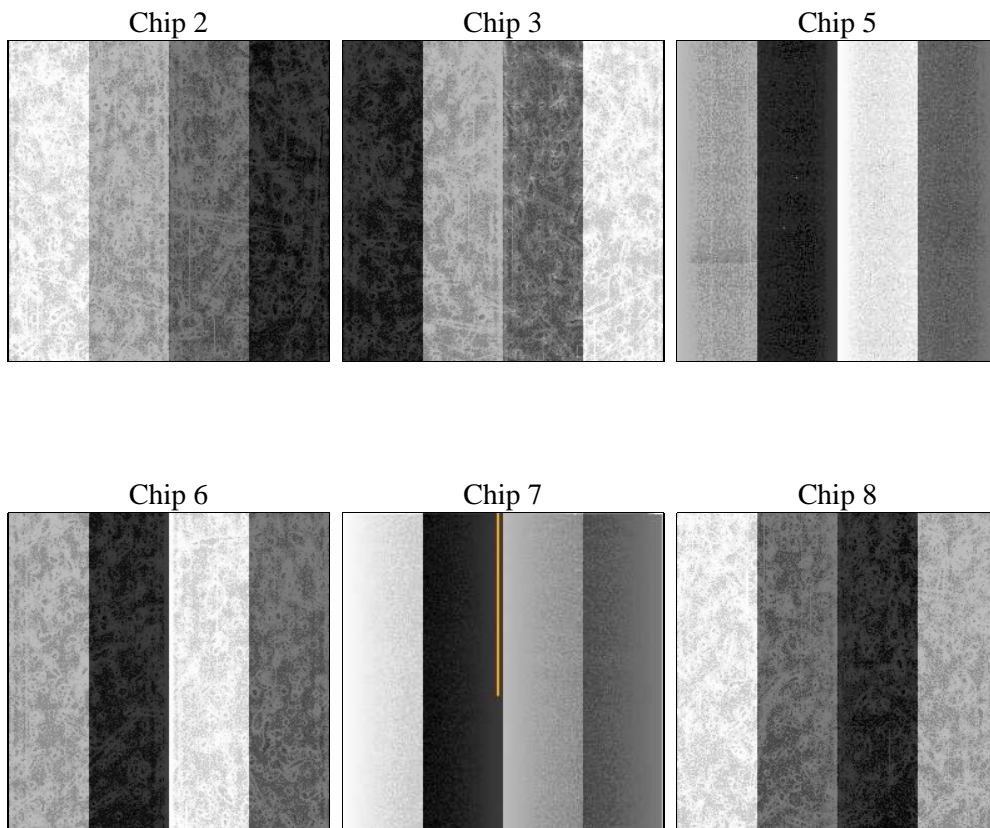
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5272.260000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5225.5999805927	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5225.5999805927	Sum of GTIs [s]
date	2012-04-19T13:51:13	Date and time of file creation	ontime3	5225.5999805927	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5225.5999805927	Sum of GTIs [s]
			ontime6	5225.5999805927	Sum of GTIs [s]
			ontime7	5225.5999805927	Sum of GTIs [s]
			ontime8	5225.5999805927	Sum of GTIs [s]
			l1events	331839	Number of level 1 events

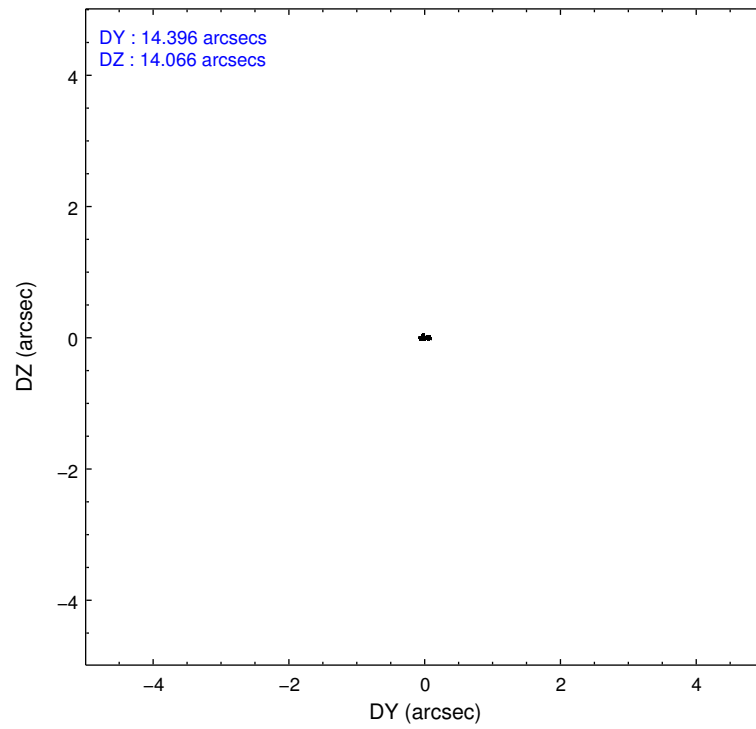
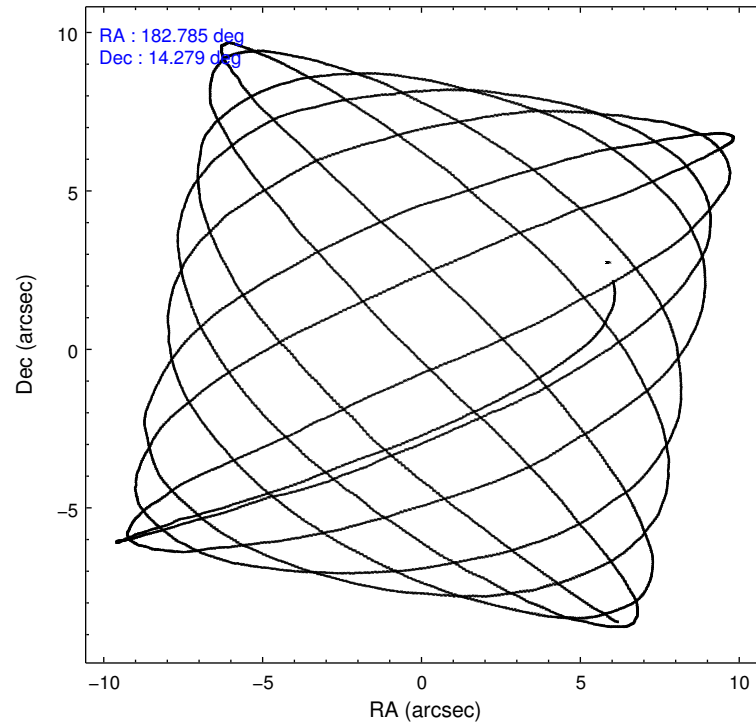
2.1.4 Events

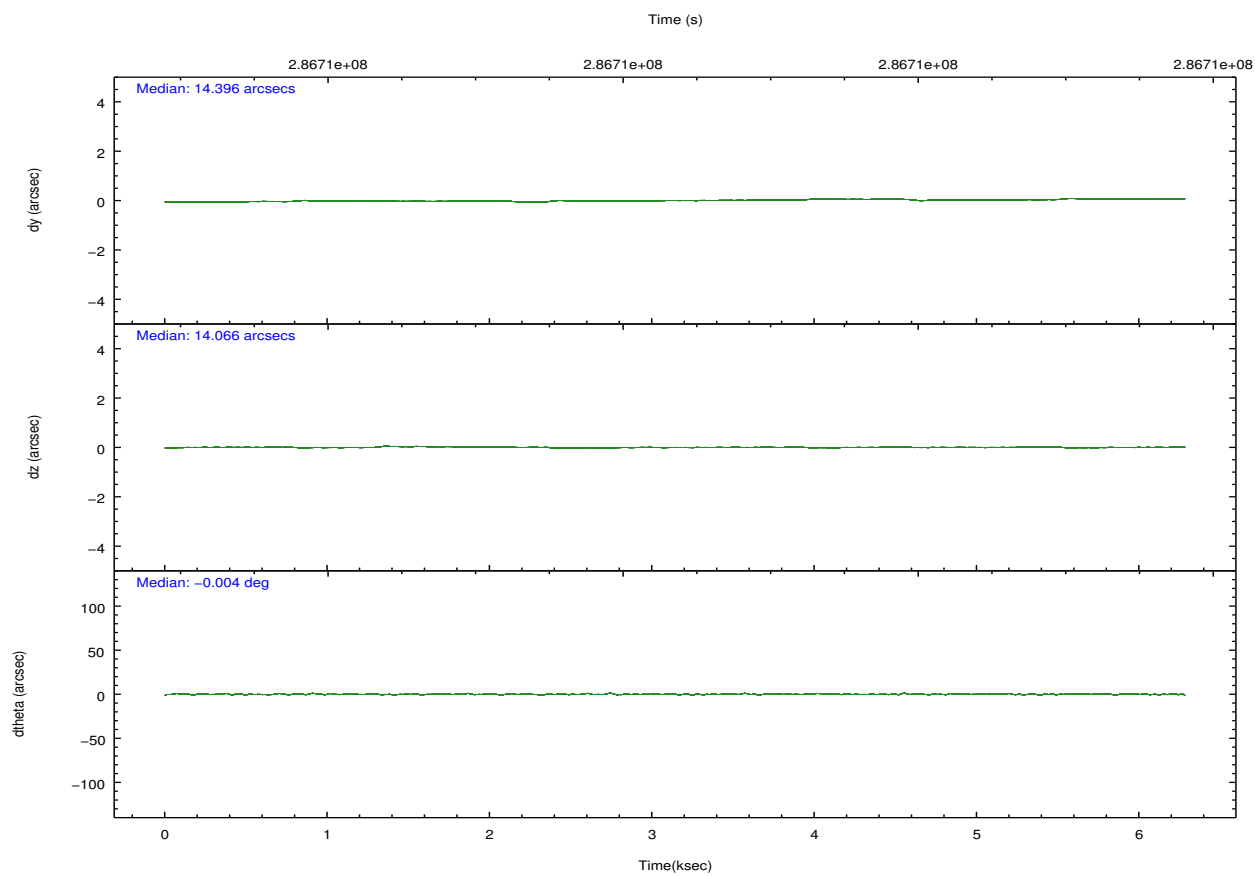
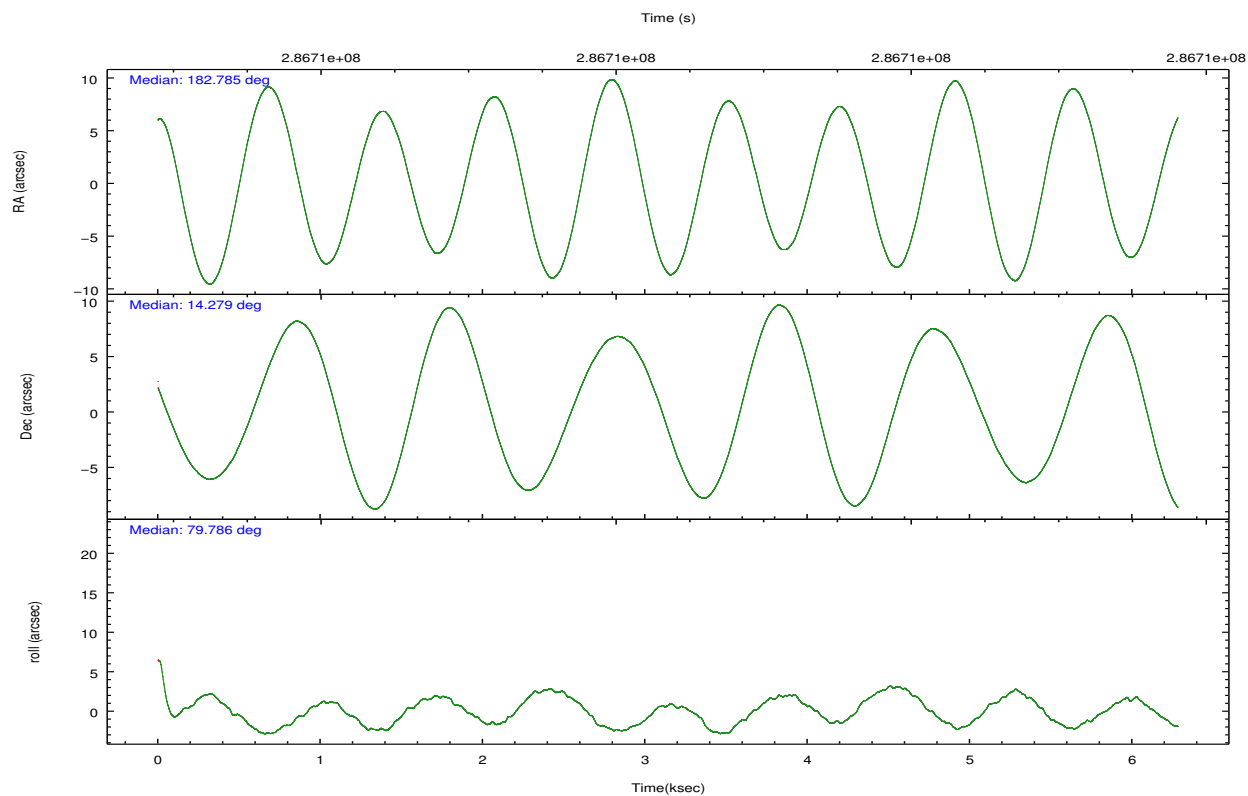
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	48327	44958	72272	44565	62881	58836	grade 0 events	2254	2347	5209	2112	2190	4078
rejected events	42978	39580	37808	39095	36996	45621		4%	5%	7%	4%	3%	6%
rejected %	88%	88%	52%	87%	58%	77%	grade 1 events	27	27	292	23	54	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	1199	1020	10054	1257	5343	3100
								2%	2%	13%	2%	8%	5%
							grade 3 events	498	563	982	484	2157	1326
								1%	1%	1%	1%	3%	2%
							grade 4 events	518	508	1026	496	2187	1199
								1%	1%	1%	1%	3%	2%
							grade 5 events	1912	2068	4593	2090	5864	2834
								3%	4%	6%	4%	9%	4%
							grade 6 events	888	949	17223	1130	14041	3519
								1%	2%	23%	2%	22%	5%
							grade 7 events	41031	37476	32893	36973	31045	42734
								84%	83%	45%	82%	49%	72%

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	182.794807	182.7848345996959	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.253108	14.27867898359576	Alternating exposures requested	N	N
[deg] Pointing Roll	79.634246	79.79334012810367	[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)	286706228.184000	286704854.13343			
Observation start date	2007-02-01T08:36:03	2007-02-01T08:14:14			
[s] Observation end time (MET)	286711500.184000	286711725.73376			
Observation end date	2007-02-01T10:03:55	2007-02-01T10:08:45			
Read mode	TIMED	TIMED			

2.3 Aspect



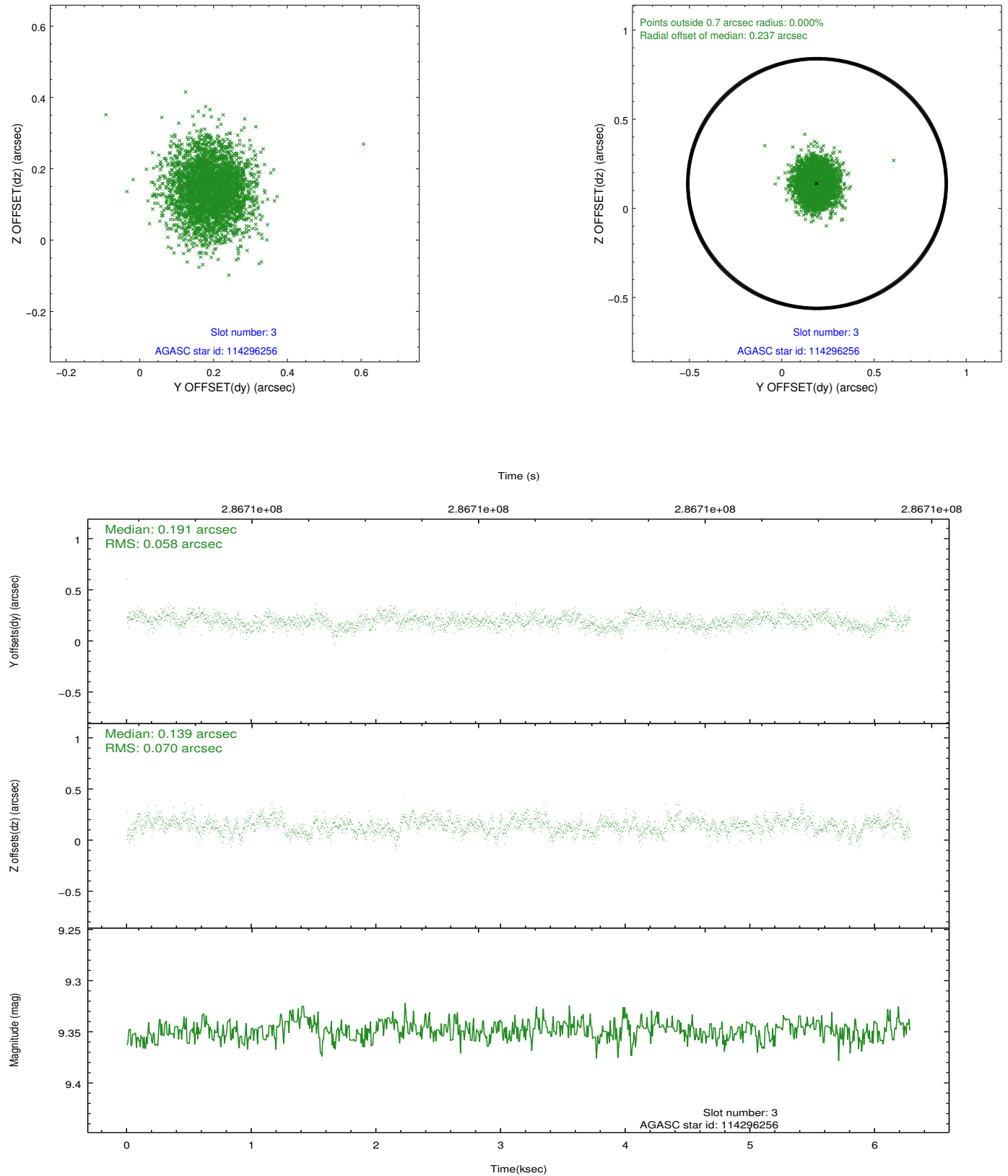


Slot Statistics

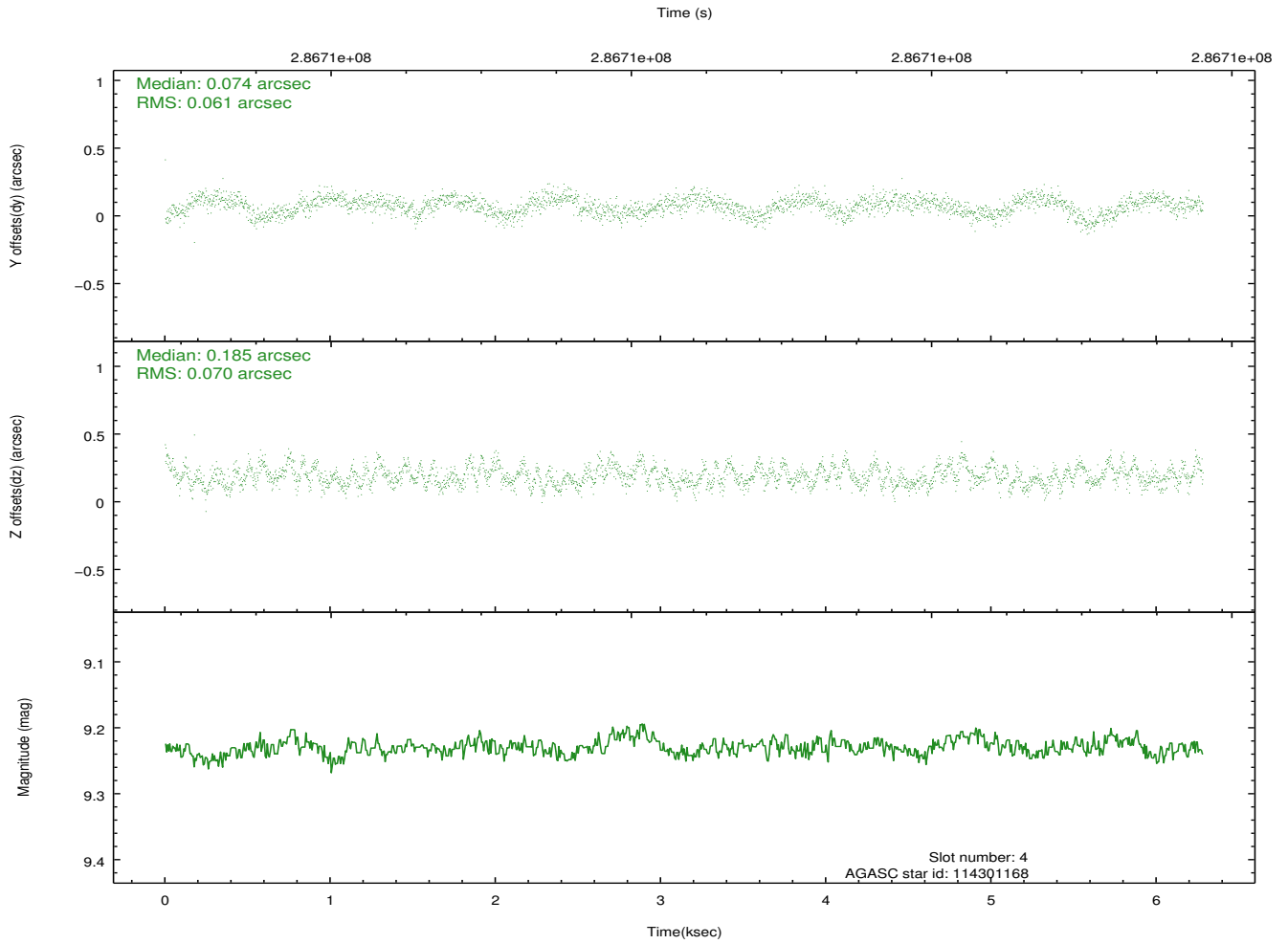
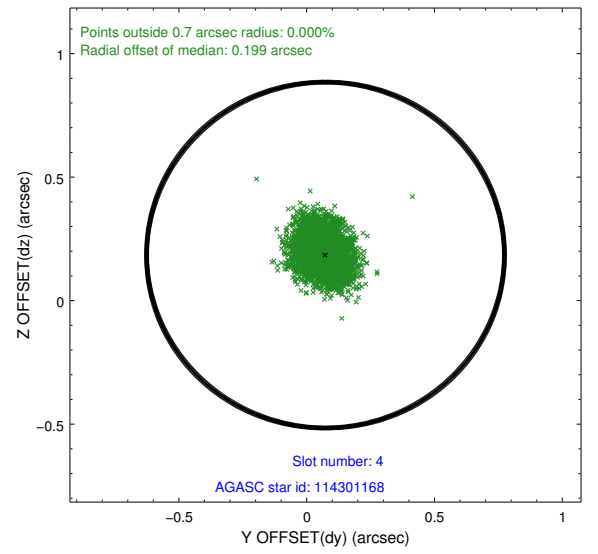
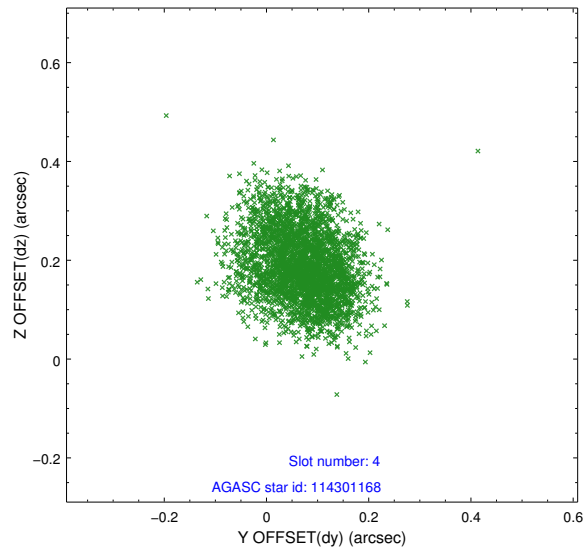
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1533	-0.080	-0.066	0.007	0.011	0.000000	0.000000	-767.44	-1735.48
1	FID	ACIS-S-4	7.20	1533	0.220	0.056	0.005	0.010	0.000000	0.000000	2145.71	172.14
2	FID	ACIS-S-5	7.23	1533	-0.171	0.018	0.007	0.011	0.000000	0.000000	-1819.17	166.85
3	GUIDE	114296256	9.35	3062	0.191	0.139	0.096	0.152	182.985406	14.017213	-714.59	-807.62
4	GUIDE	114301168	9.23	3064	0.074	0.185	0.100	0.158	182.996668	14.071189	-516.68	-811.30
5	GUIDE	114302168	7.94	3065	-0.191	-0.242	0.059	0.095	182.308899	14.829820	1739.28	2037.22
6	GUIDE	114302592	8.06	3064	-0.052	-0.233	0.063	0.097	182.751254	14.424375	580.08	260.79
7	GUIDE	114303096	9.30	3061	-0.019	0.146	0.083	0.136	183.214020	14.515722	1194.91	-1266.20

2.4 Star Slots

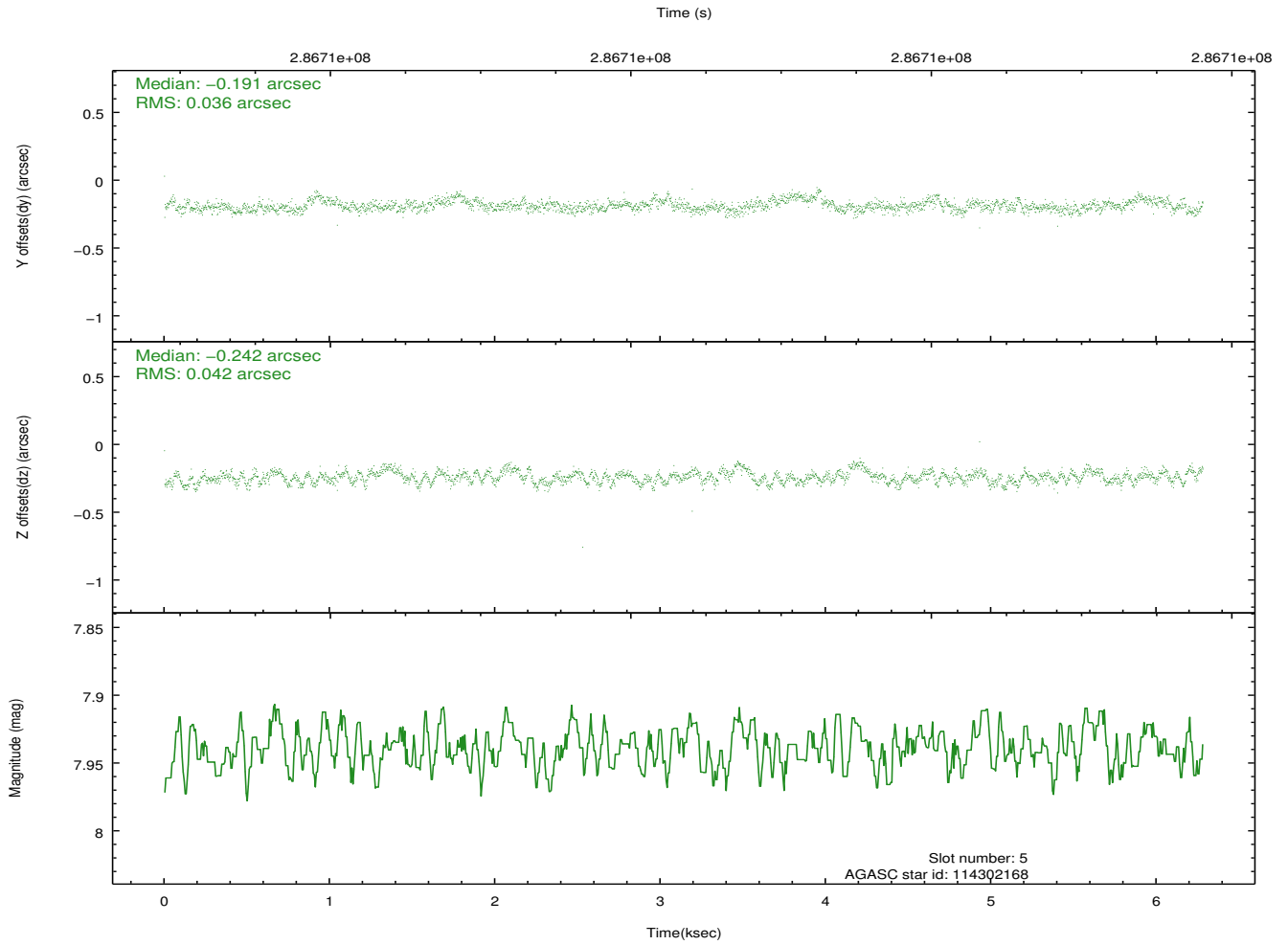
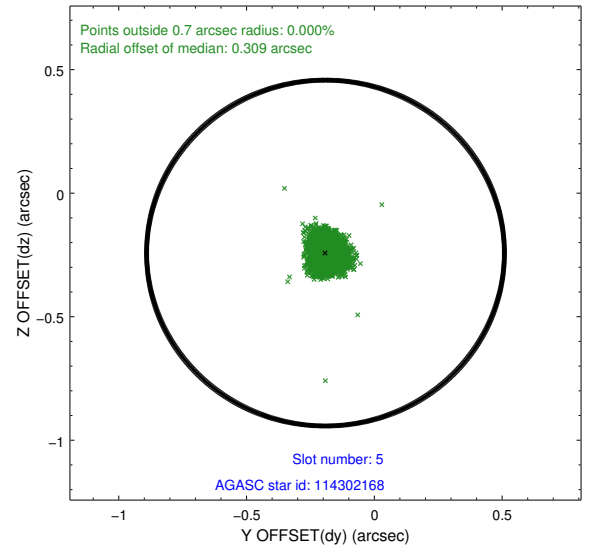
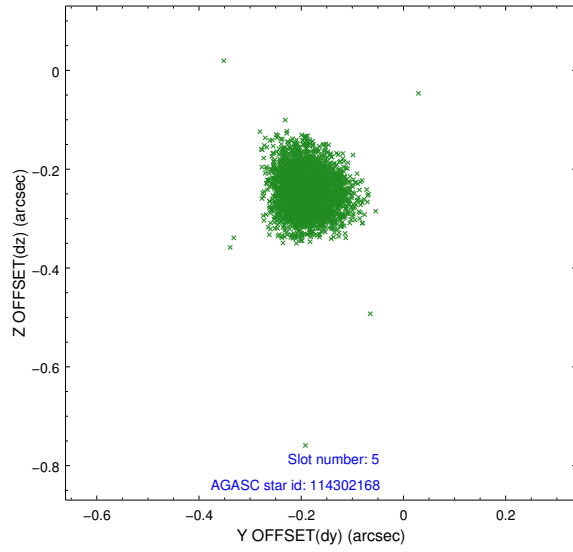
2.4.1 Slot 3



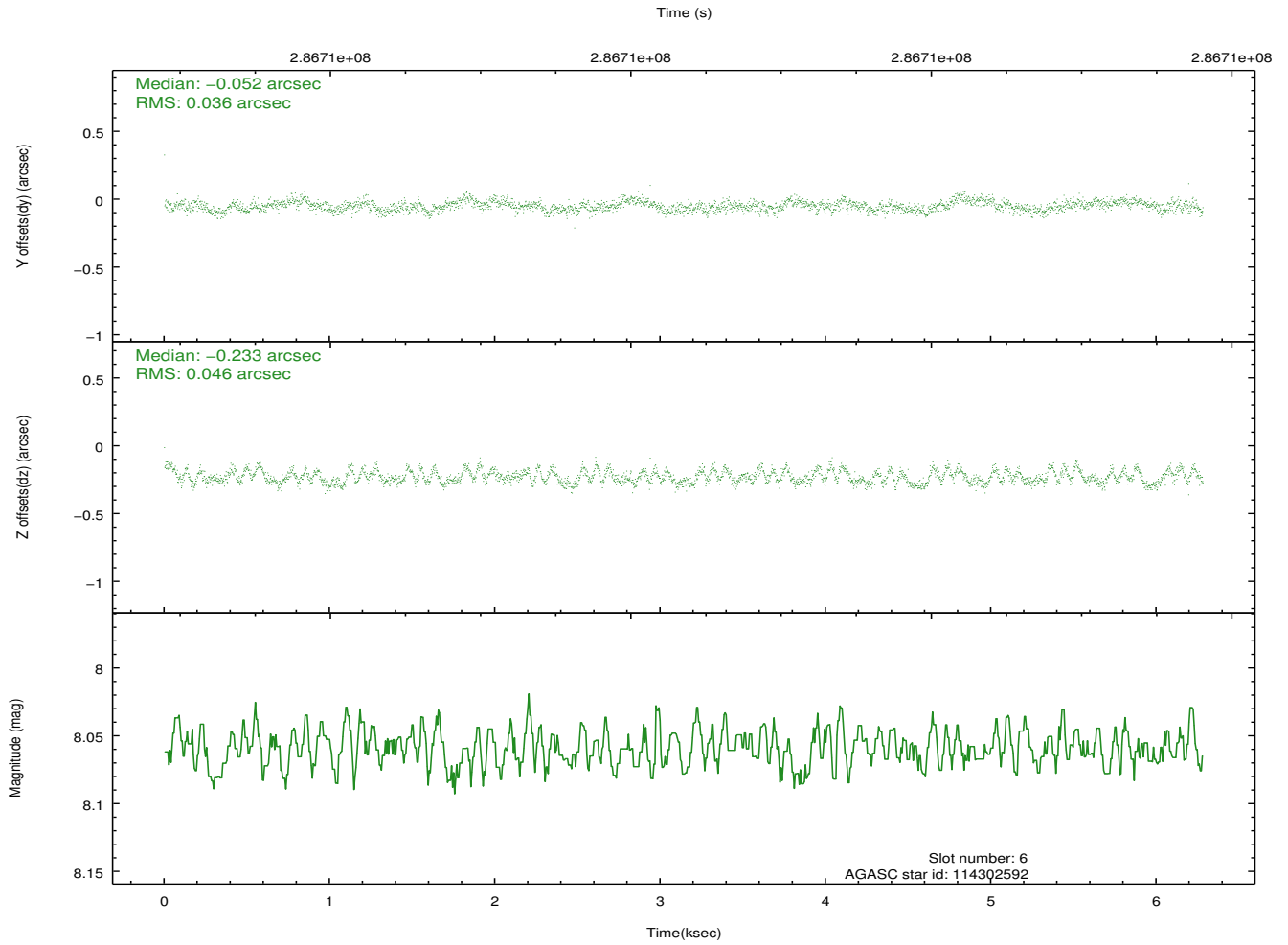
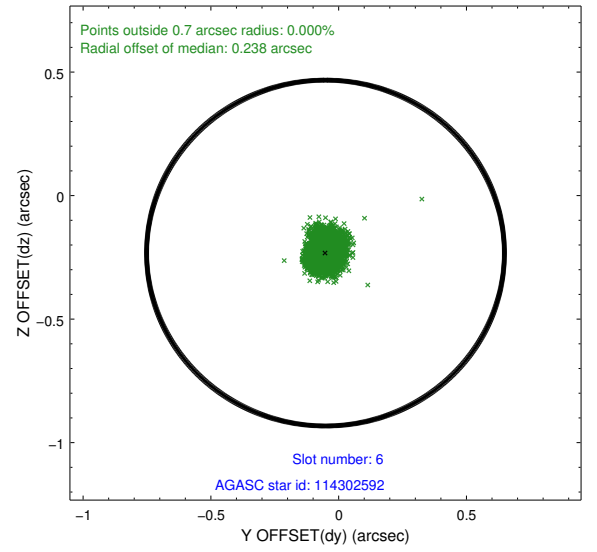
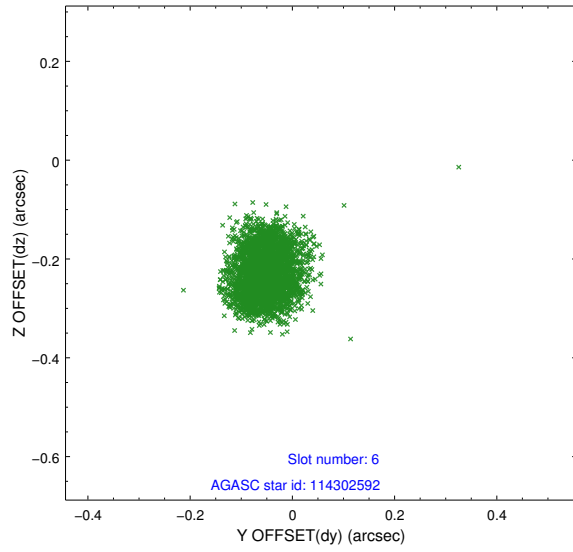
2.4.2 Slot 4



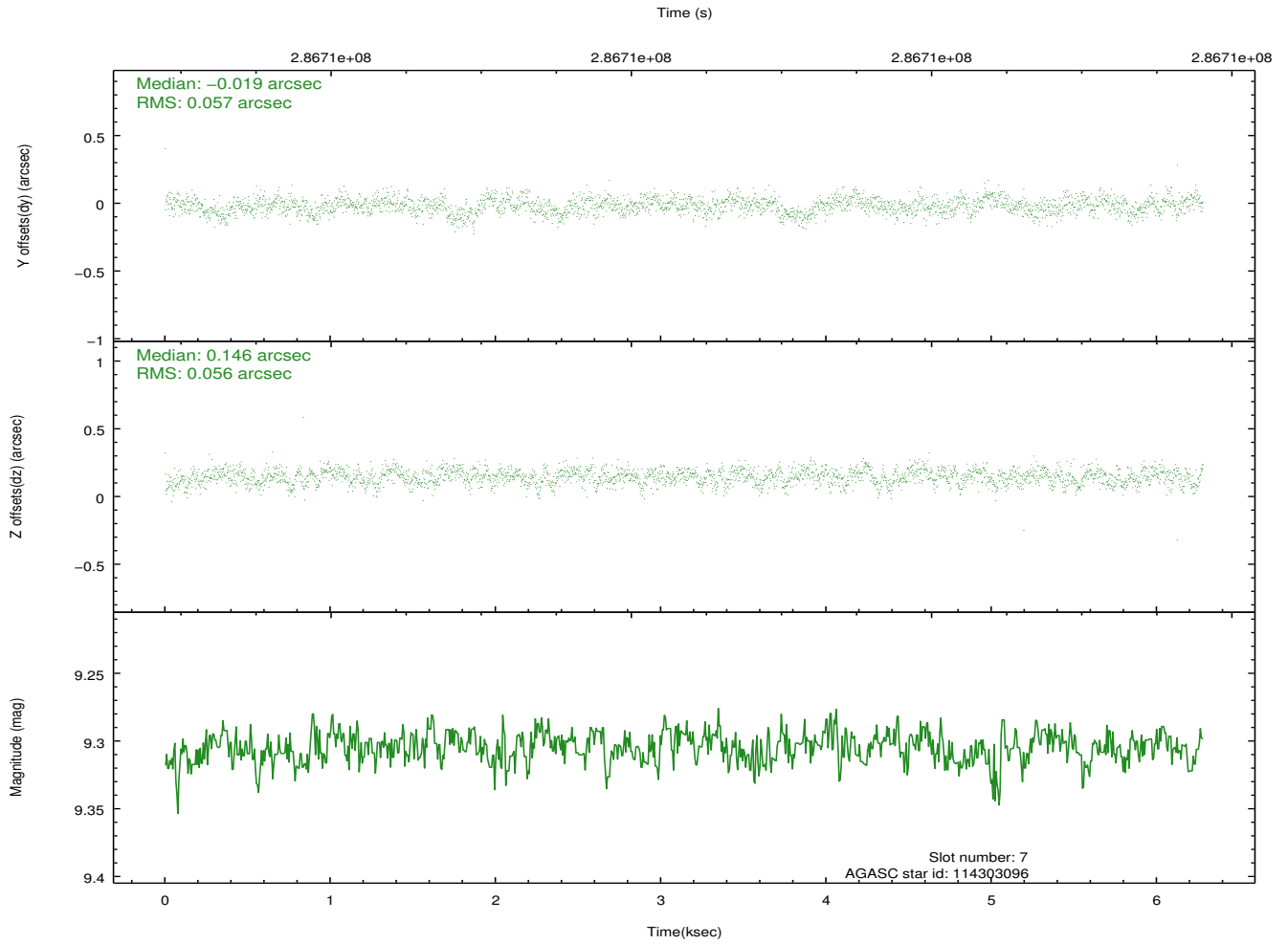
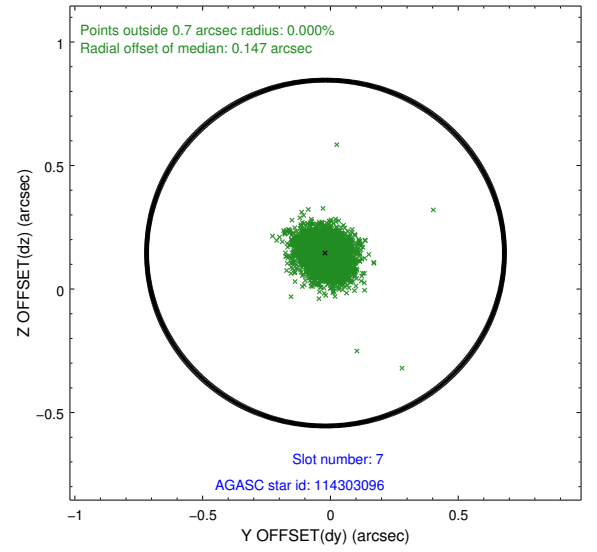
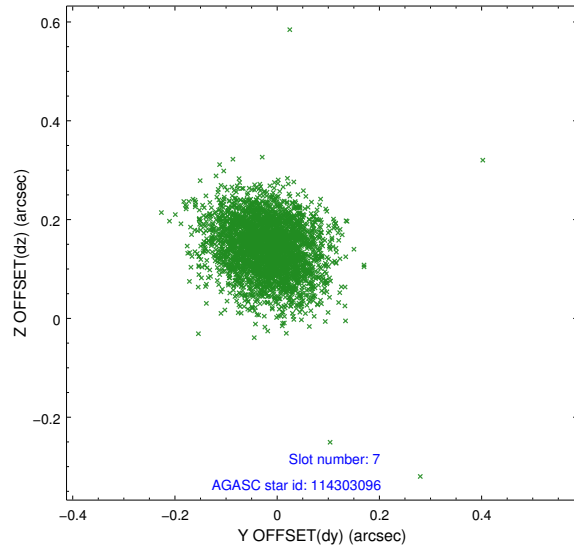
2.4.3 Slot 5



2.4.4 Slot 6

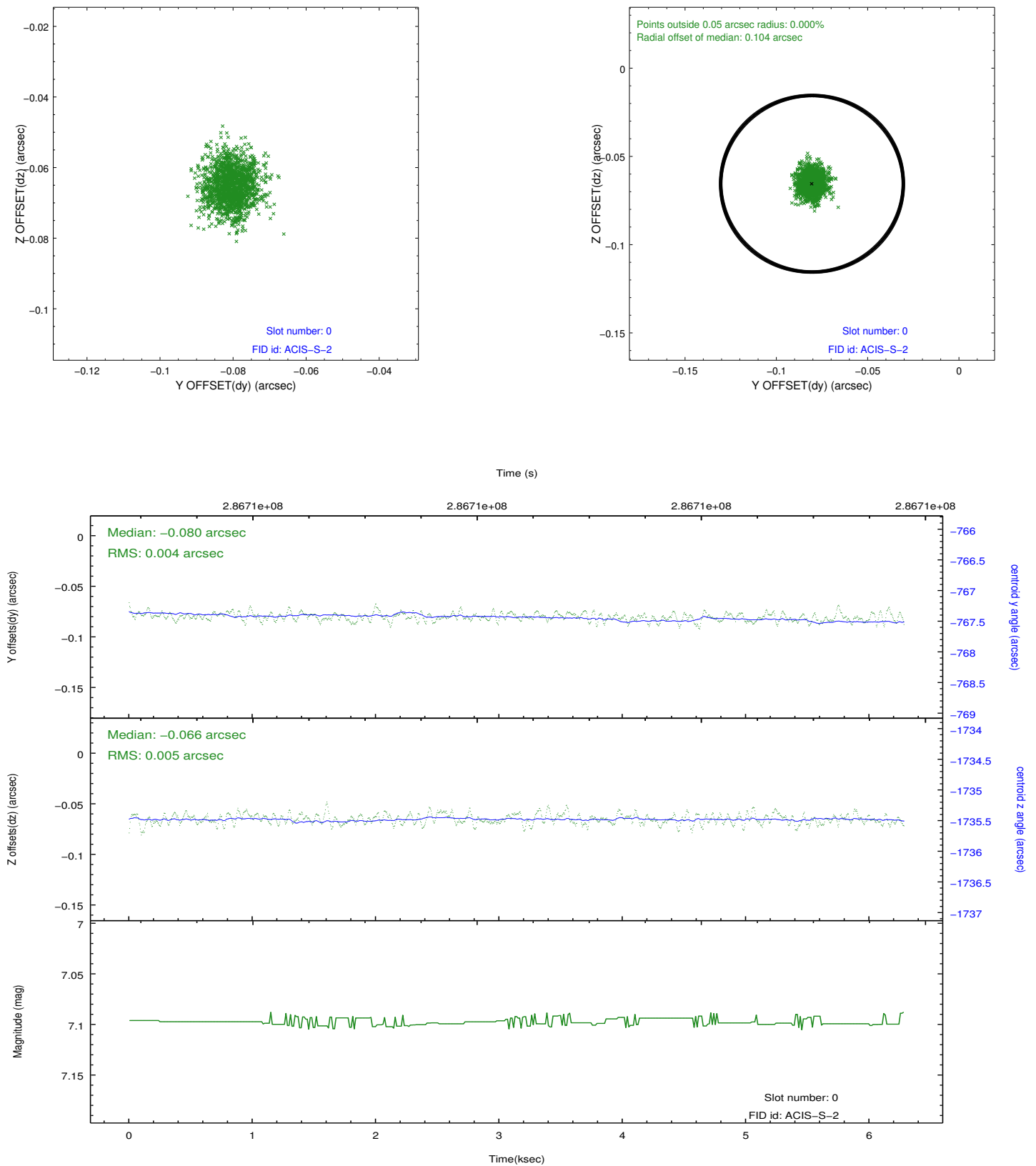


2.4.5 Slot 7

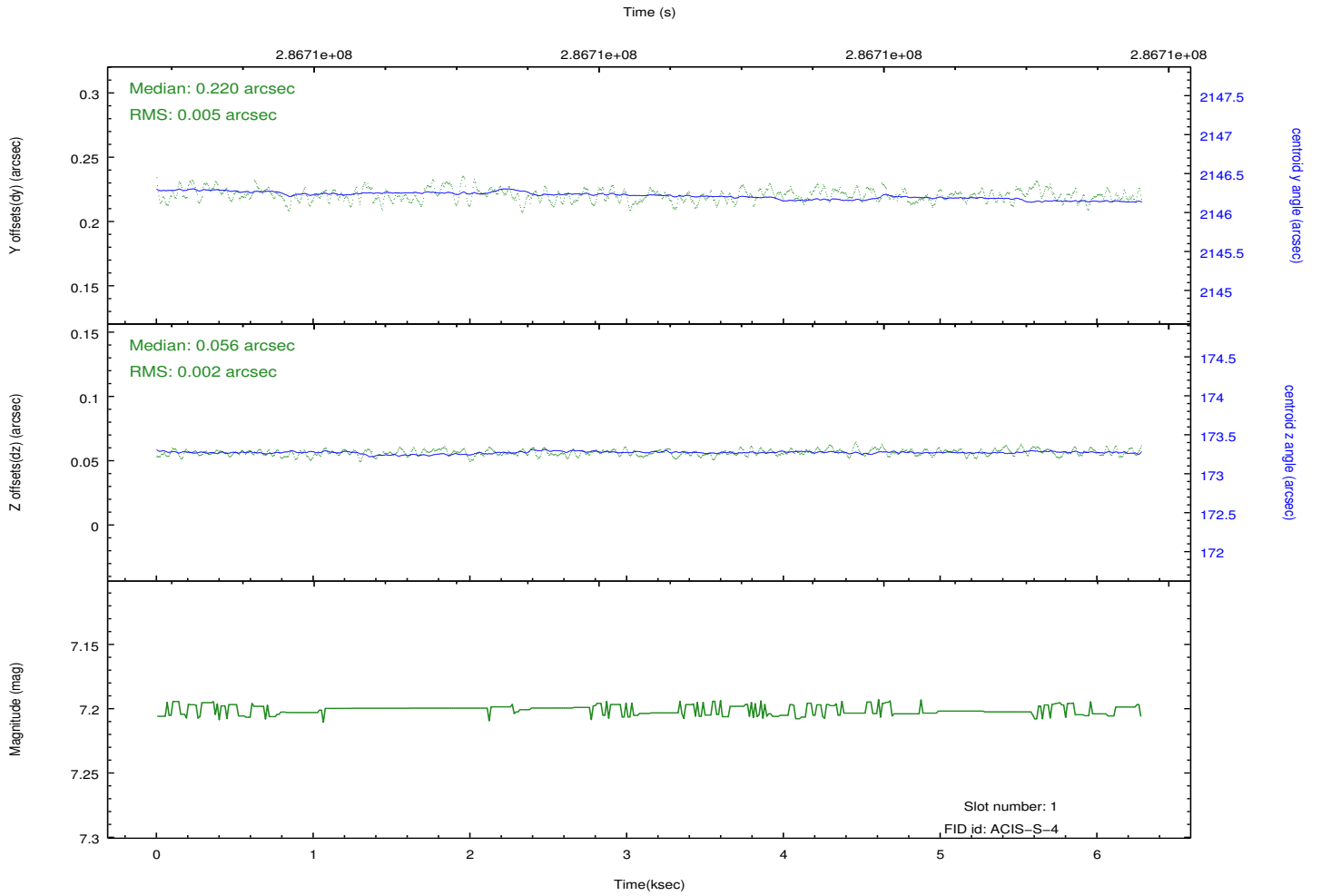
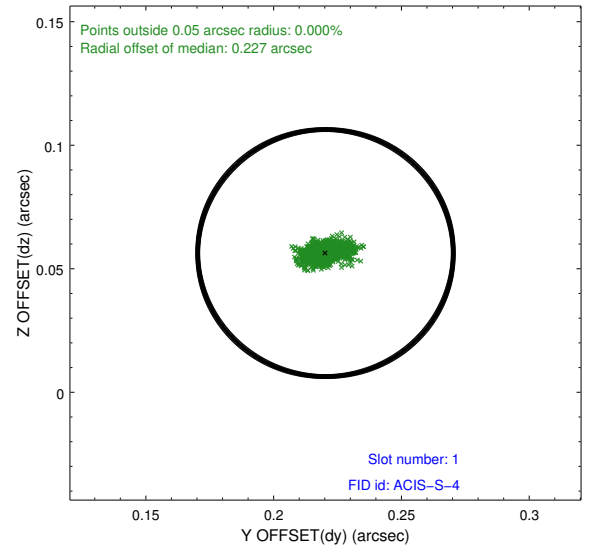
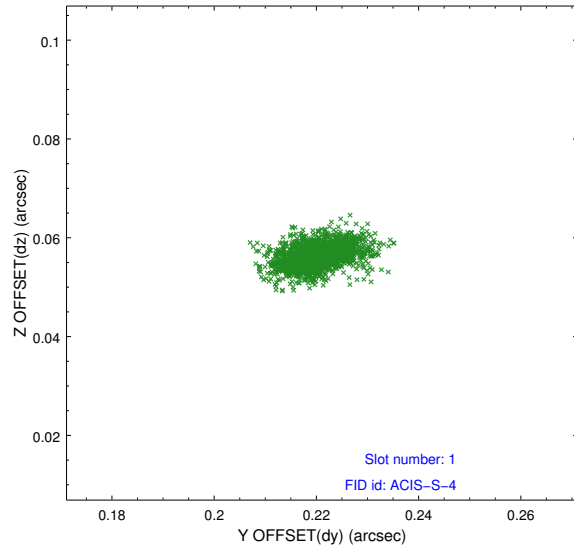


2.5 FID Slots

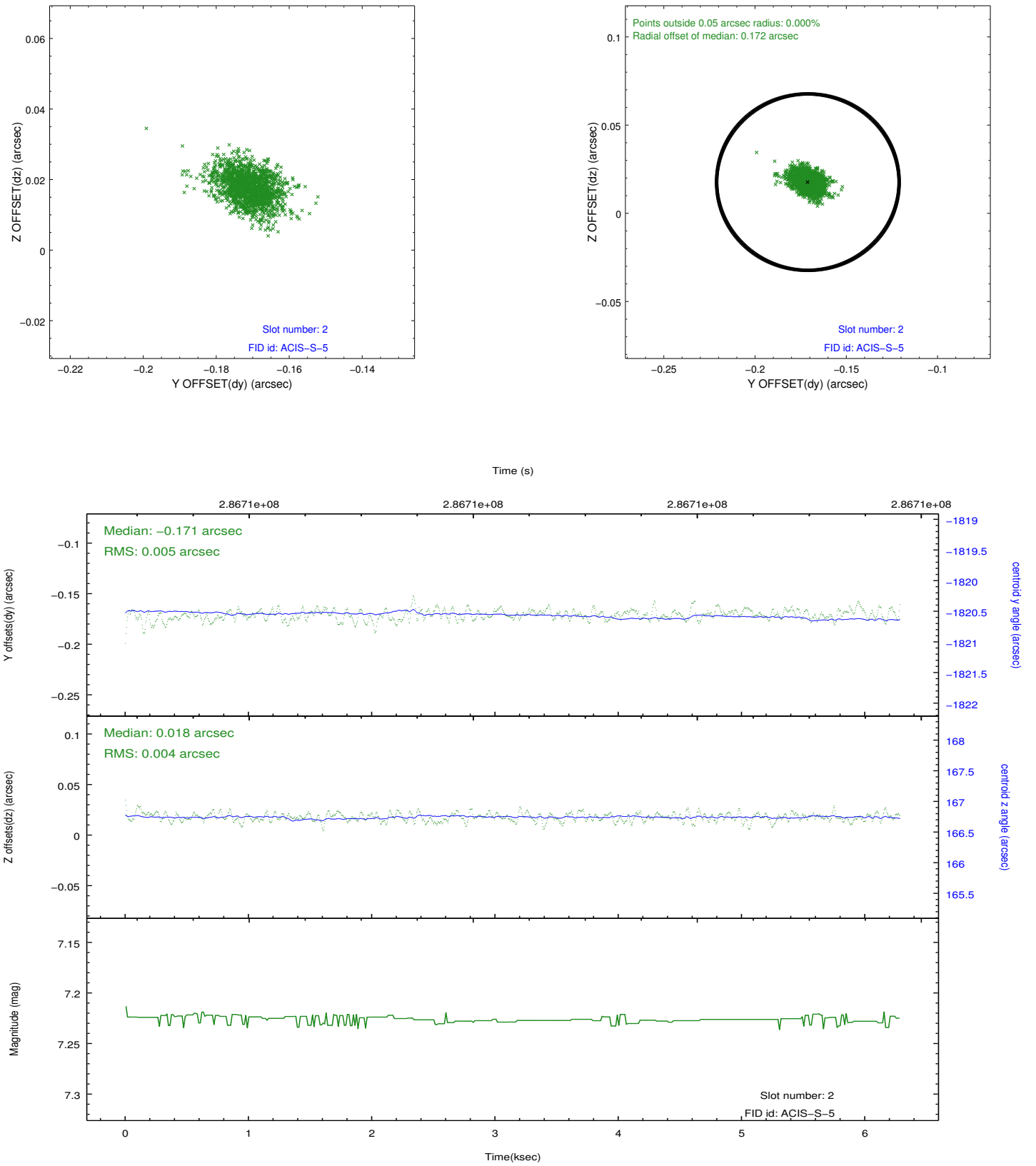
2.5.1 Slot 0



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)	2012.04.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.22559998

A.2 Comments

Joint proposal with Spitzer.