

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8051 - L2 Version 3
Chandra X-Ray Center

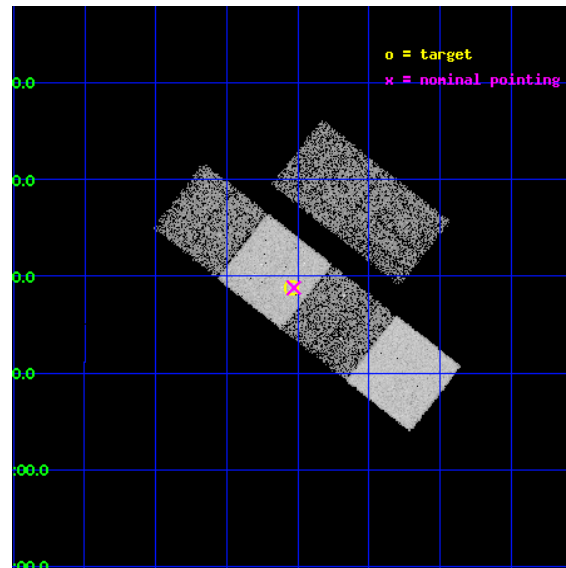
L2 Processing Date : Apr 23 2012

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1 Front

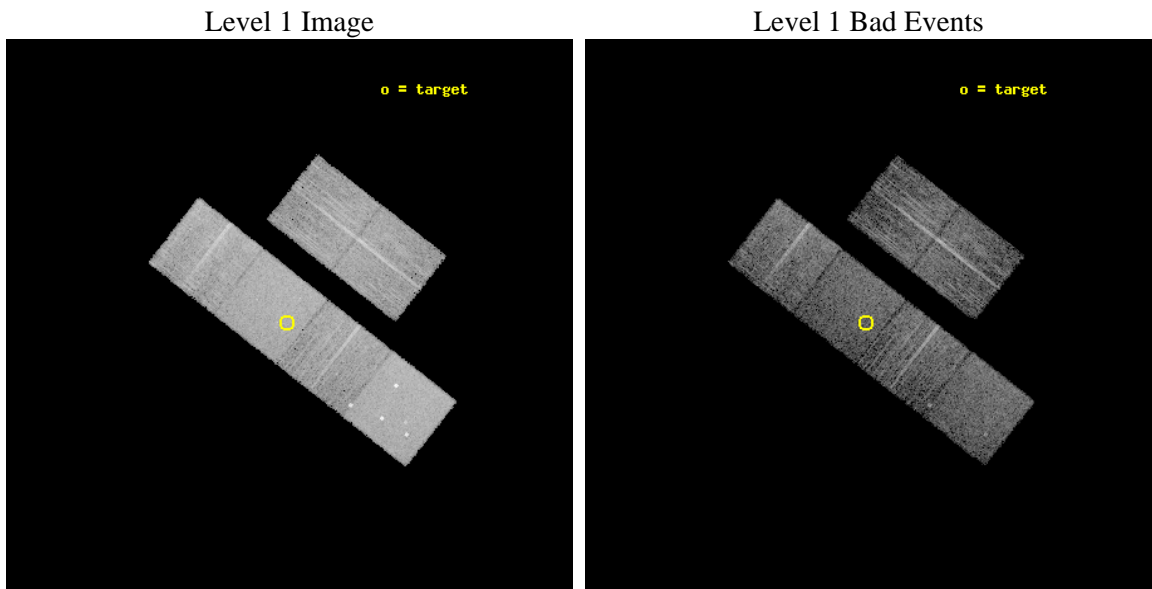
seq_num	900592	Sequence number
obs_id	8051	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1883	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.38625	Observer's specified target RA [deg]
dec_targ	7.314722	Observer's specified target Dec [deg]
ra_nom	190.38199858773	Nominal RA [deg]
dec_nom	7.3134866476789	Nominal Dec [deg]
roll_nom	218.03387413578	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5157.4076855183	Sum of GTIs [s]
livetime	5092.1014839862	Livetime [s]
ontime2	5157.4487454295	Sum of GTIs [s]
ontime3	5157.2845655084	Sum of GTIs [s]
ontime5	5157.366645515	Sum of GTIs [s]
ontime6	5157.3256254196	Sum of GTIs [s]
ontime7	5157.4076855183	Sum of GTIs [s]
ontime8	5150.7615448833	Sum of GTIs [s]
l2events	80910	Number of level 2 events



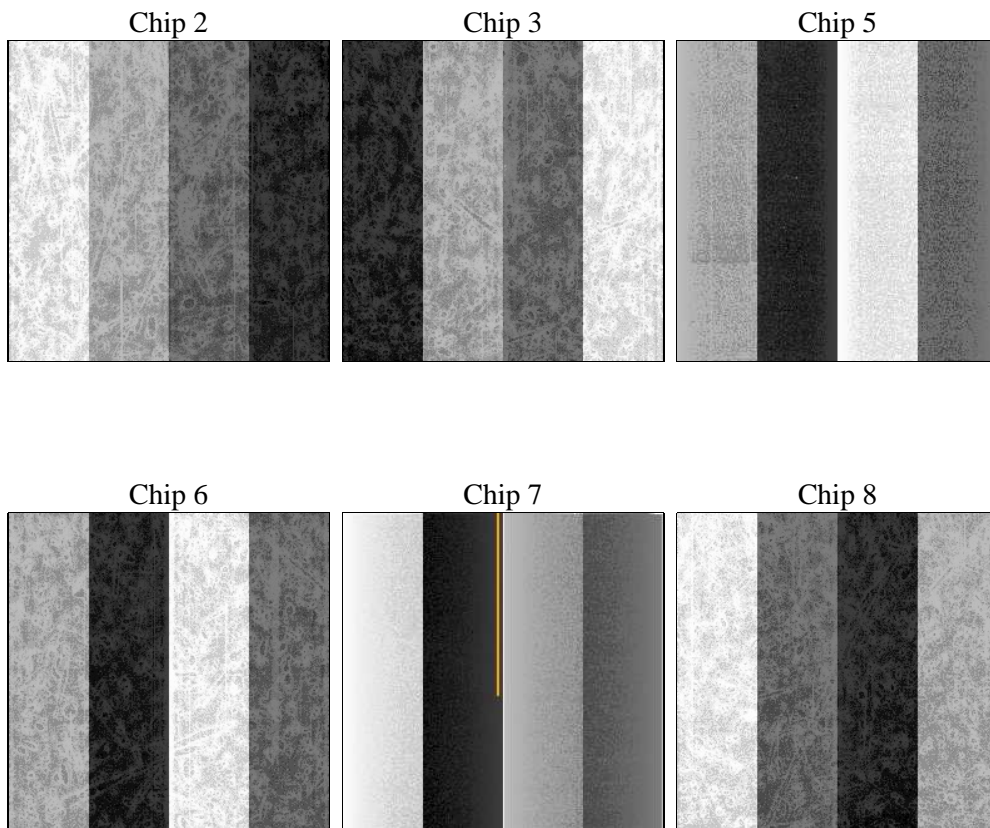
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5157.4076855183	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5157.4487454295	Sum of GTIs [s]
date	2012-04-23T09:13:04	Date and time of file creation	ontime3	5157.2845655084	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5157.366645515	Sum of GTIs [s]
			ontime6	5157.3256254196	Sum of GTIs [s]
			ontime7	5157.4076855183	Sum of GTIs [s]
			ontime8	5150.7615448833	Sum of GTIs [s]
			l1events	361941	Number of level 1 events

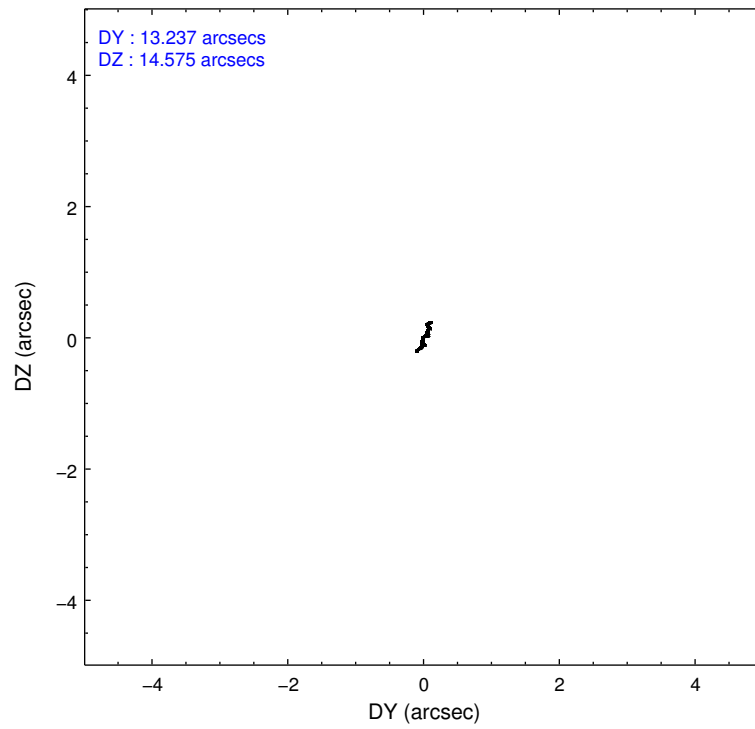
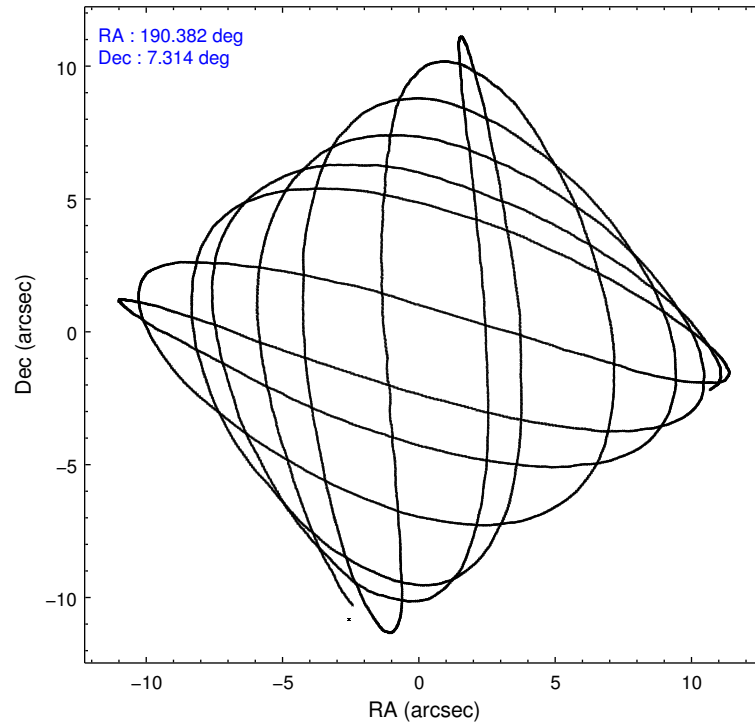
2.1.4 Events

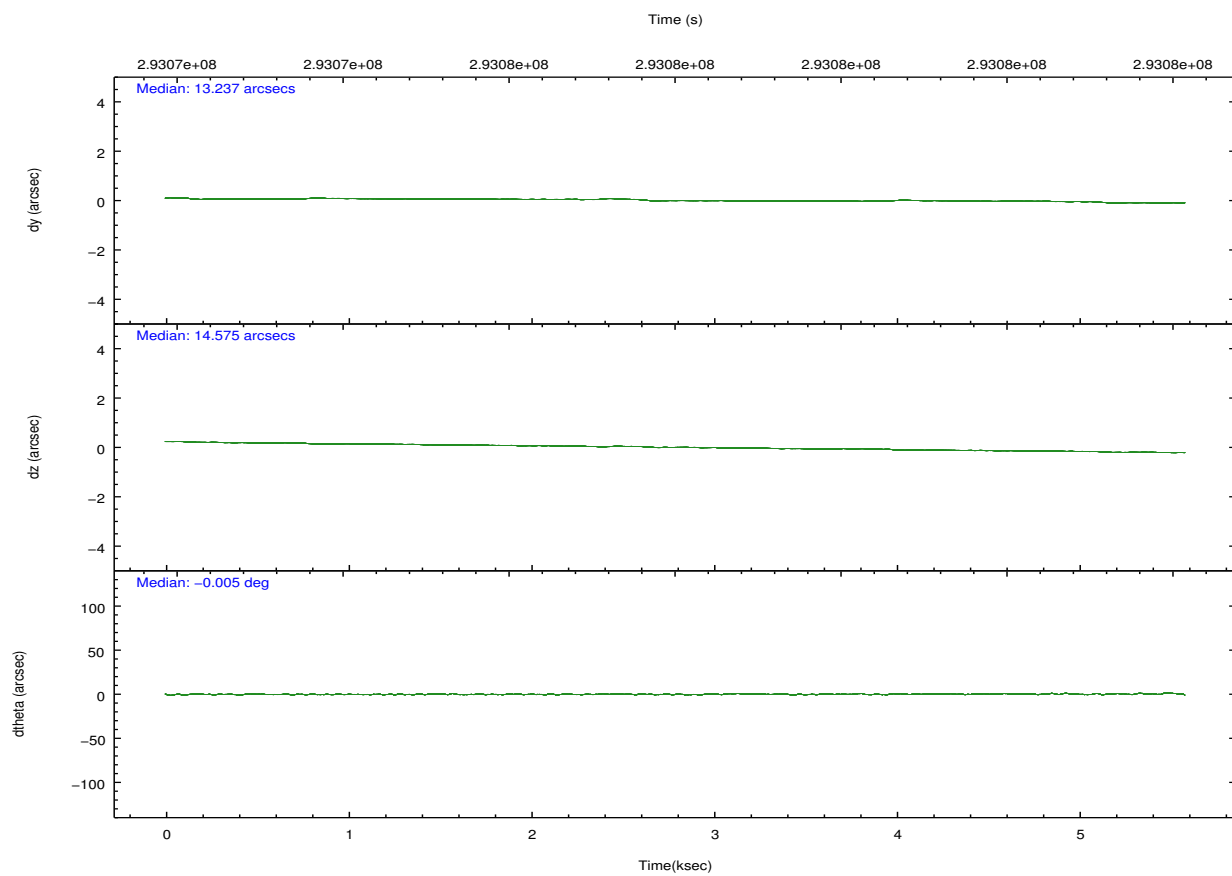
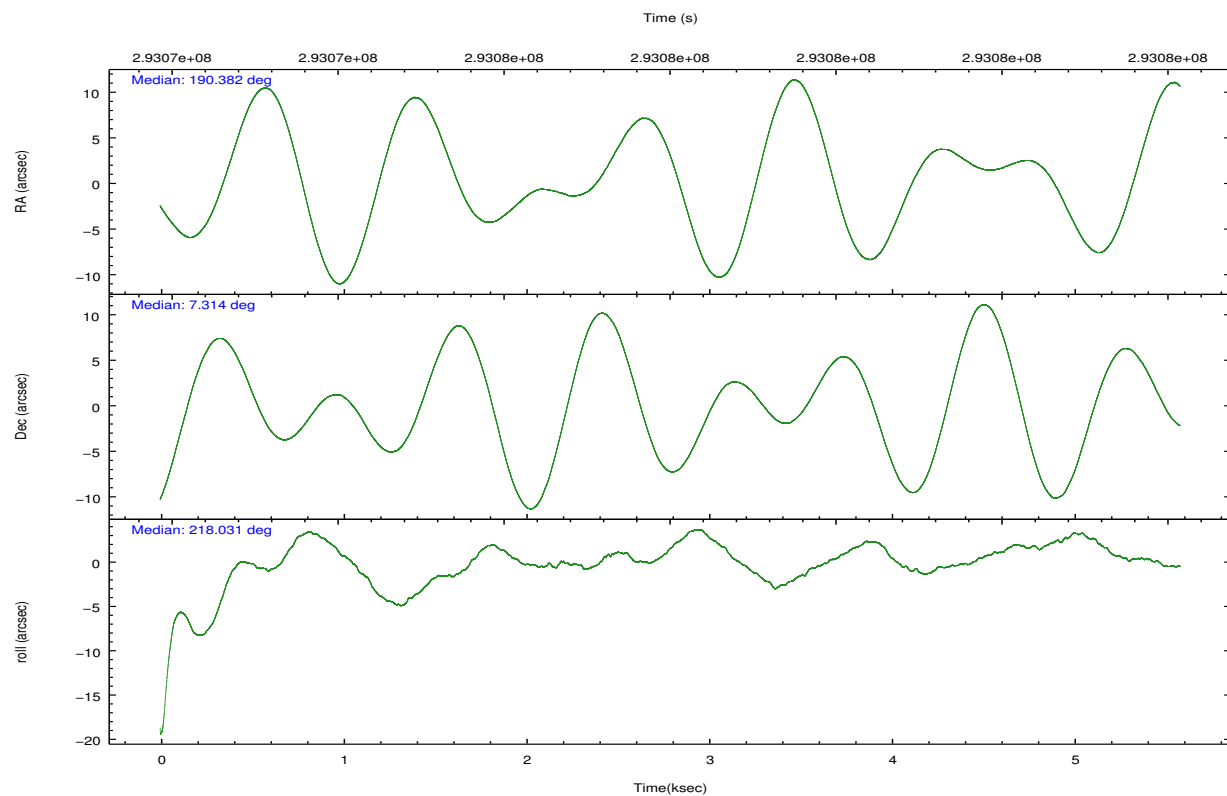
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50995	49423	78544	49220	67814	65945	grade 0 events	2350	2501	4866	2406	2603	4226
rejected events	45399	43735	41273	43237	39388	51982		4%	5%	6%	4%	3%	6%
rejected %	89%	88%	52%	87%	58%	78%	grade 1 events	31	33	210	21	86	62
								0%	0%	0%	0%	0%	0%
							grade 2 events	1167	1096	11270	1283	5692	3154
								2%	2%	14%	2%	8%	4%
							grade 3 events	539	549	1319	564	2486	1451
								1%	1%	1%	1%	3%	2%
							grade 4 events	539	561	1361	540	2410	1354
								1%	1%	1%	1%	3%	2%
							grade 5 events	1998	2116	5484	2253	6425	3097
								3%	4%	6%	4%	9%	4%
							grade 6 events	1007	990	18505	1196	15278	3824
								1%	2%	23%	2%	22%	5%
							grade 7 events	43364	41577	35529	40957	32834	48777
								85%	84%	45%	83%	48%	73%

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	190.391936	190.3819985877315	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.338957	7.313486647678944	Alternating exposures requested	N	N
[deg] Pointing Roll	217.875978	218.0338741357784	[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)	293073390.184000	293072862.19883			
Observation start date	2007-04-16T01:15:25	2007-04-16T01:07:42			
[s] Observation end time (MET)	293078790.184000	293079535.97414			
Observation end date	2007-04-16T02:45:25	2007-04-16T02:58:55			
Read mode	TIMED	TIMED			

2.3 Aspect



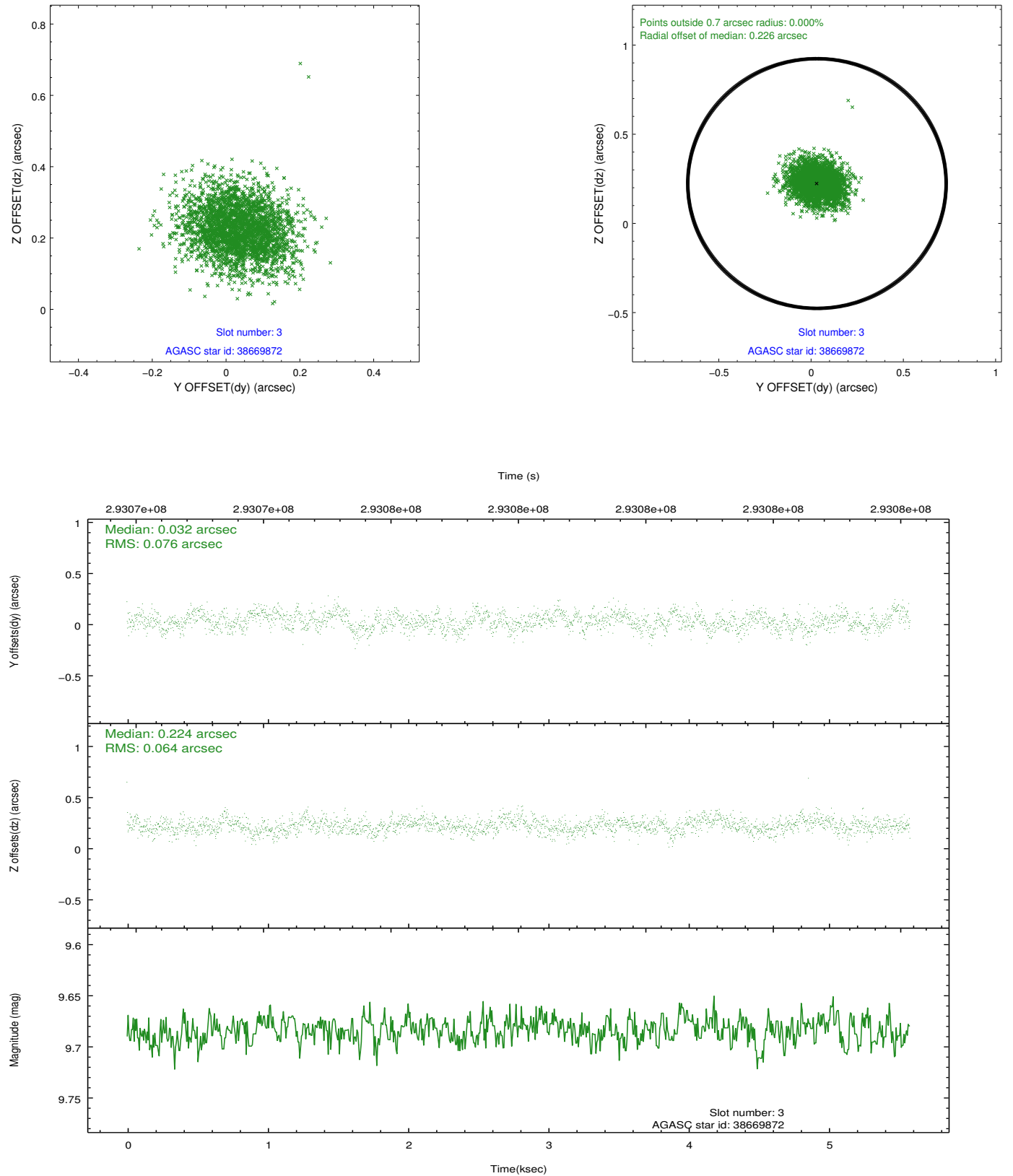


Slot Statistics

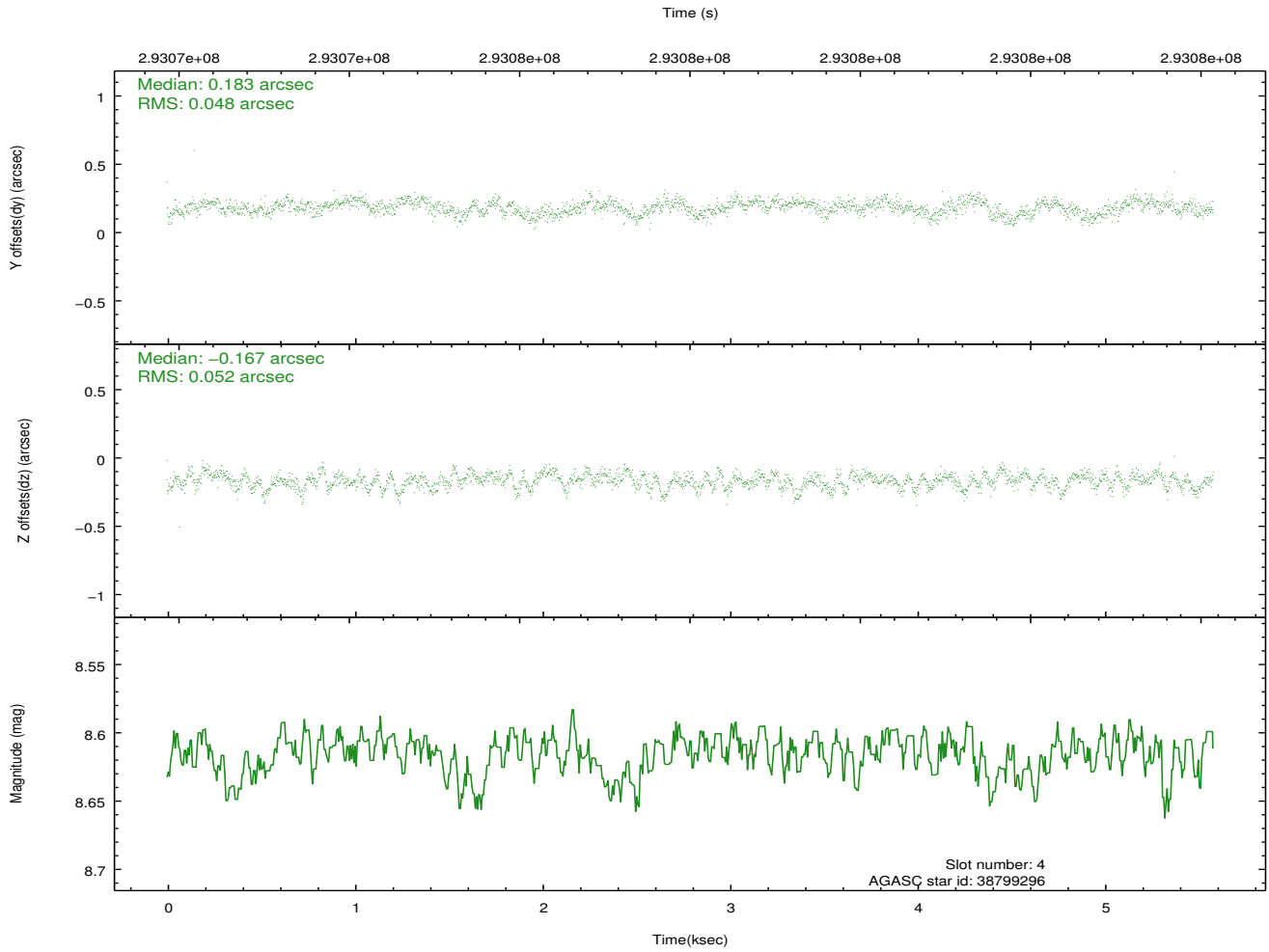
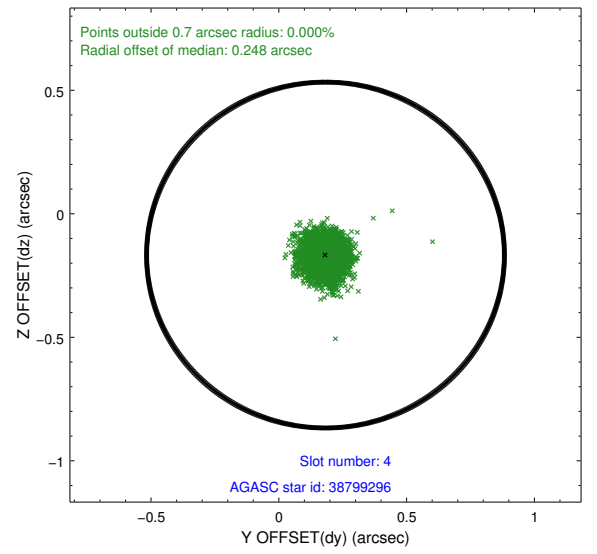
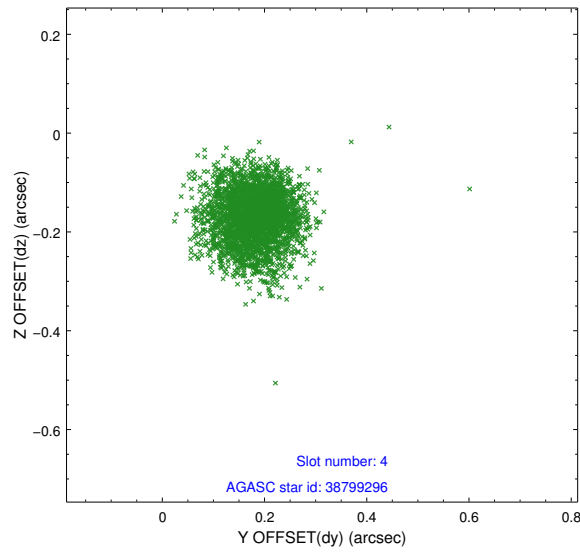
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1362	-0.053	-0.045	0.007	0.013	0.000000	0.000000	-766.20	-1736.01
1	FID	ACIS-S-4	7.20	1362	0.187	0.038	0.007	0.011	0.000000	0.000000	2146.80	171.49
2	FID	ACIS-S-5	7.22	1361	-0.165	0.016	0.007	0.011	0.000000	0.000000	-1817.80	166.30
3	GUIDE	38669872	9.68	2720	0.032	0.224	0.104	0.172	189.924063	7.061058	1933.79	-236.73
4	GUIDE	38799296	8.62	2719	0.183	-0.167	0.076	0.120	190.448800	7.370503	-228.50	34.94
5	GUIDE	38800784	9.62	2722	0.031	-0.024	0.115	0.190	190.463415	7.032478	476.36	1027.73
6	GUIDE	114694368	9.23	2723	-0.105	0.014	0.101	0.156	190.404440	7.784914	-1020.15	-1239.32
7	GUIDE	114695320	9.39	2720	-0.130	-0.048	0.114	0.179	189.844685	7.574189	1021.09	-1868.64

2.4 Star Slots

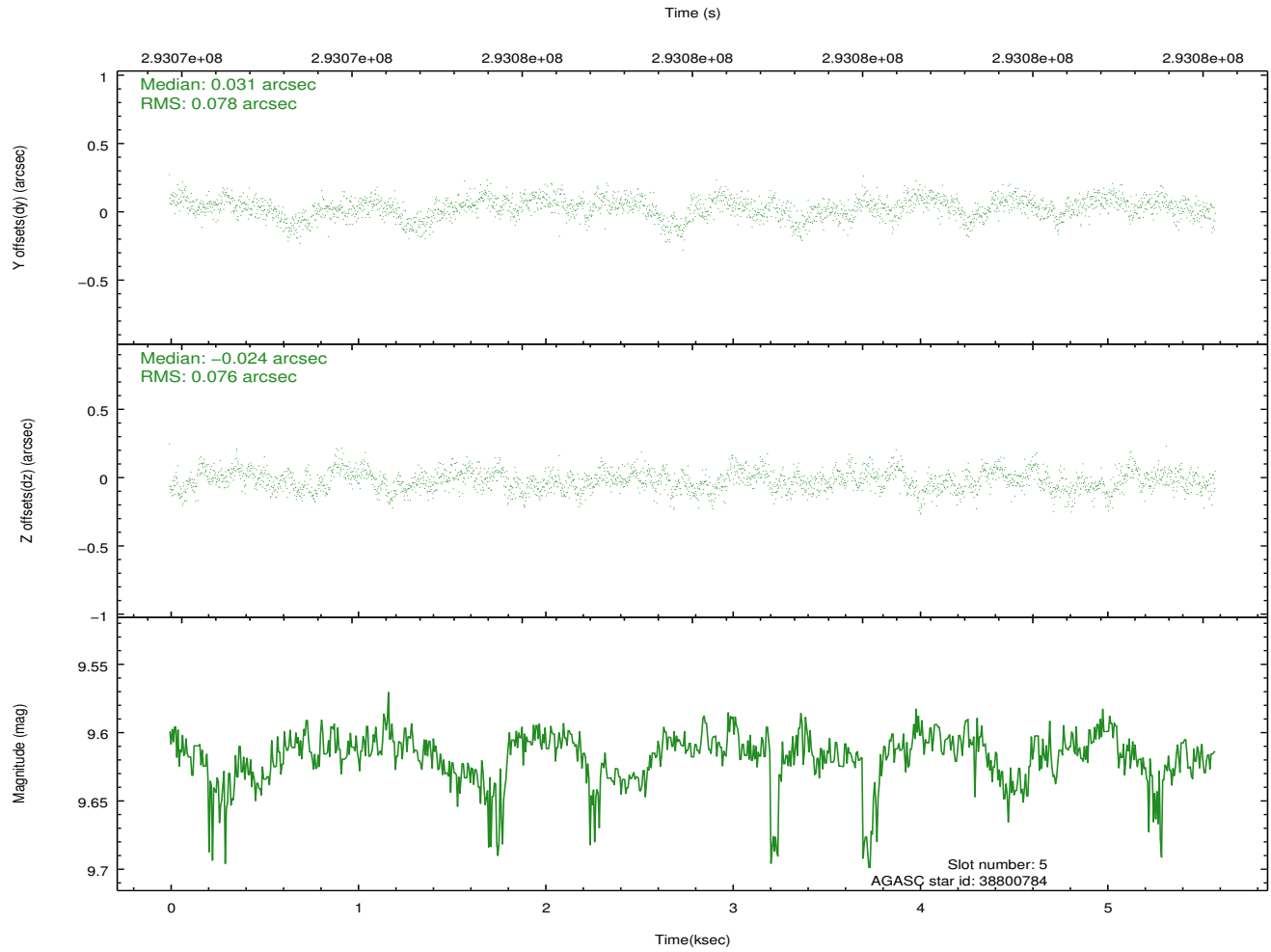
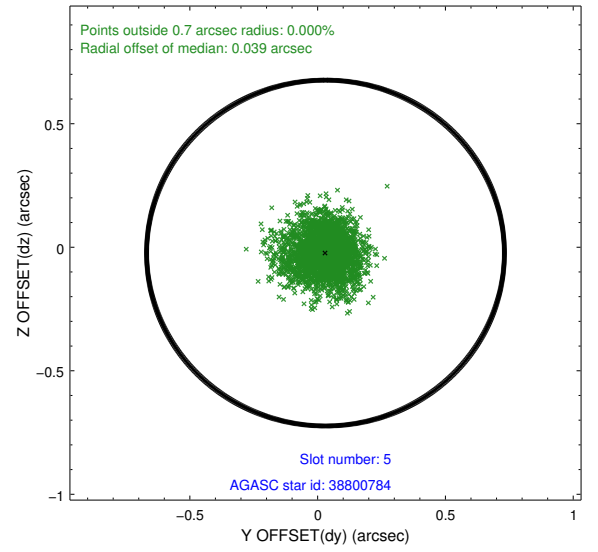
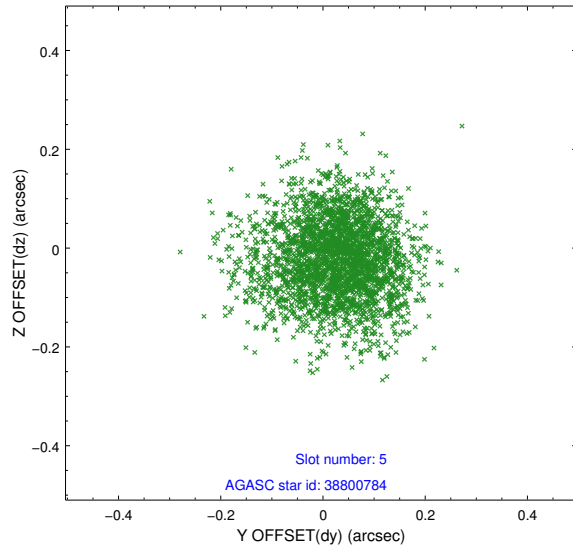
2.4.1 Slot 3



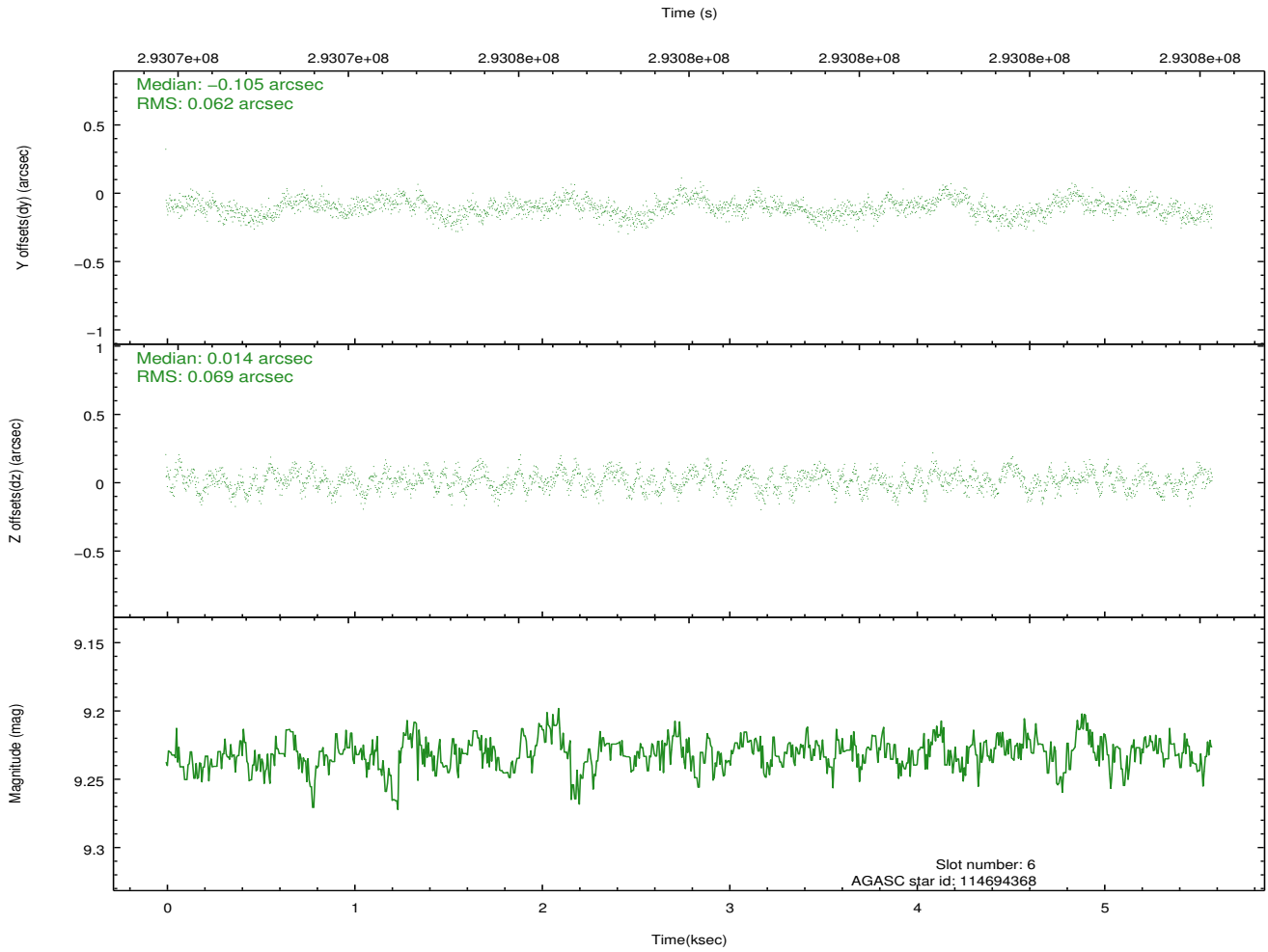
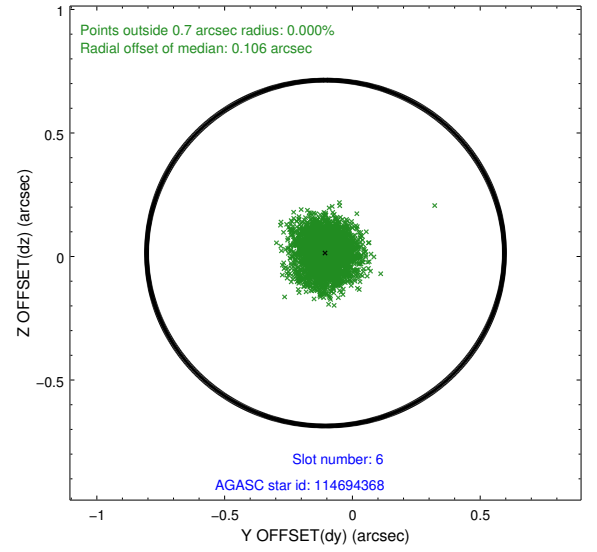
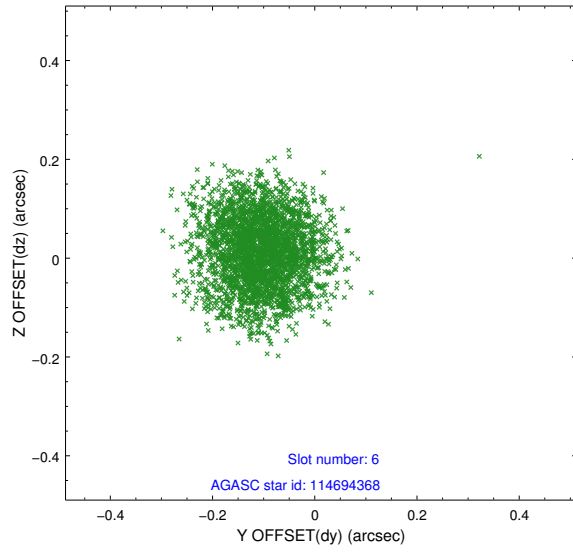
2.4.2 Slot 4



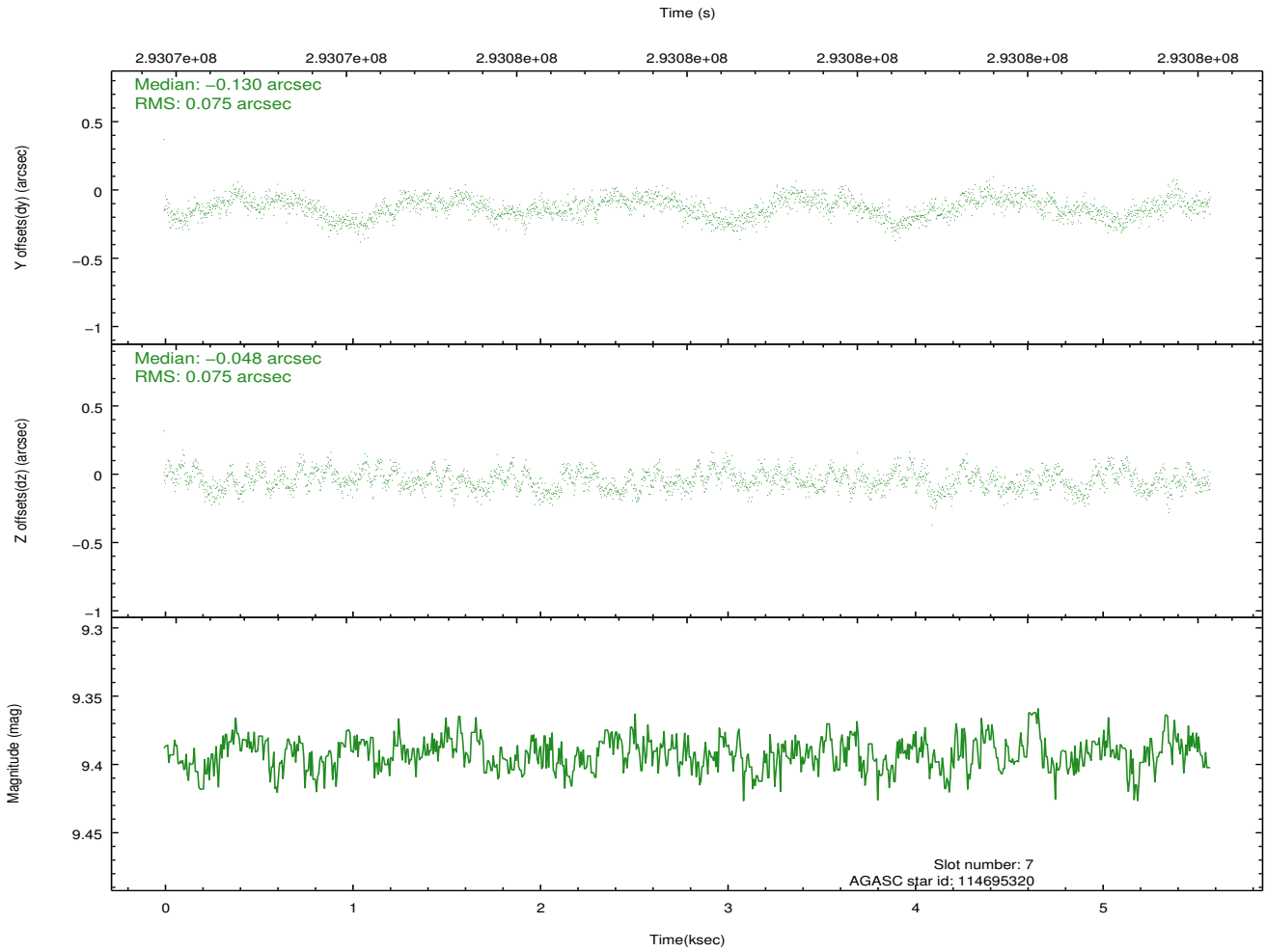
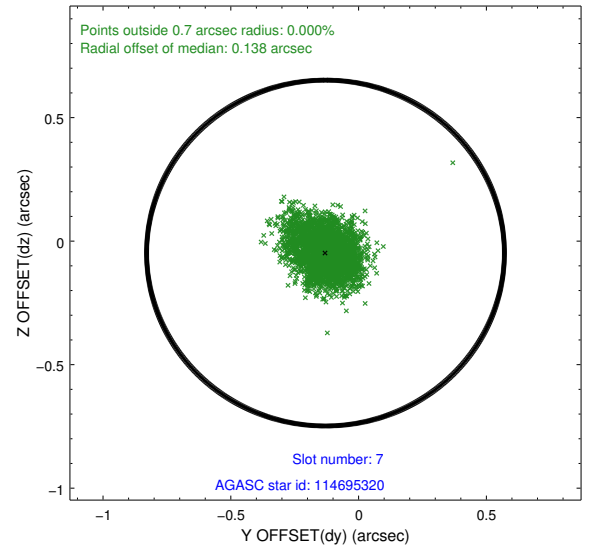
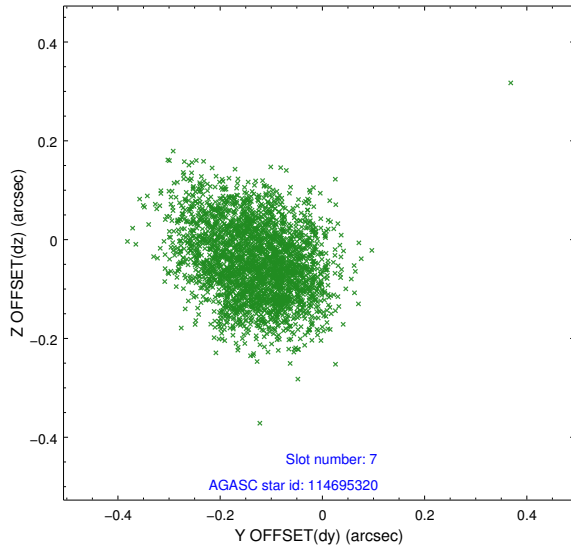
2.4.3 Slot 5



2.4.4 Slot 6

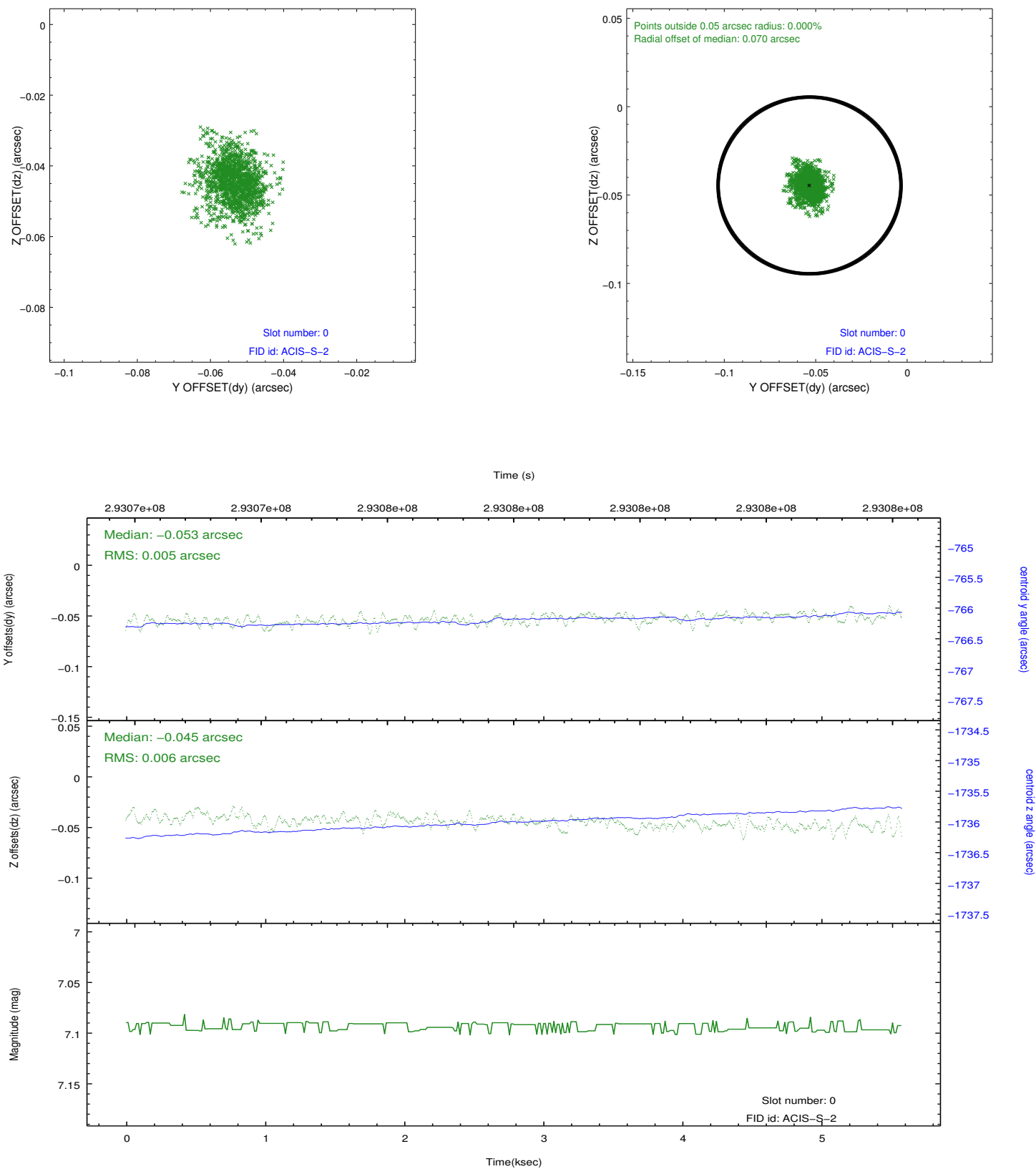


2.4.5 Slot 7

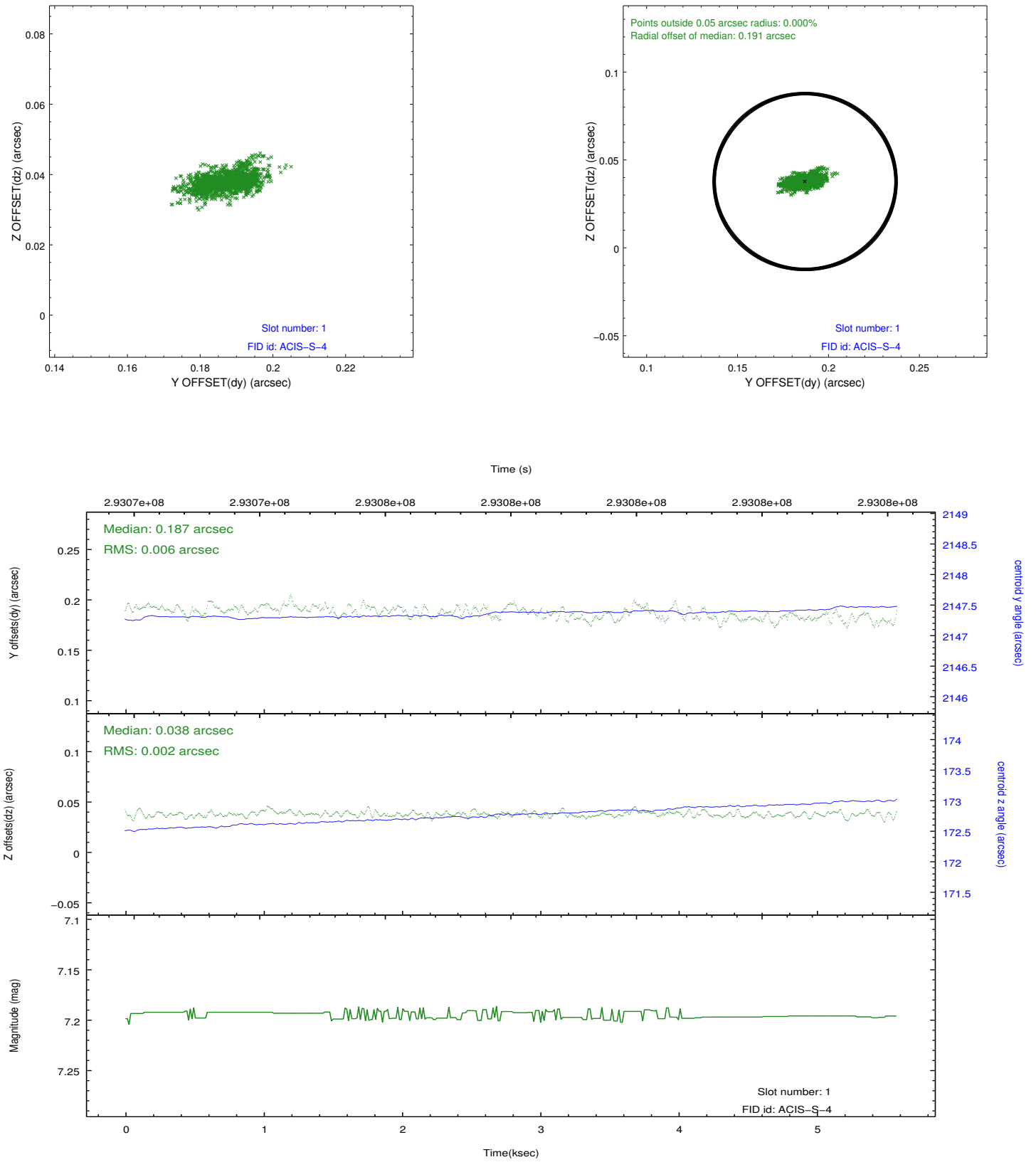


2.5 FID Slots

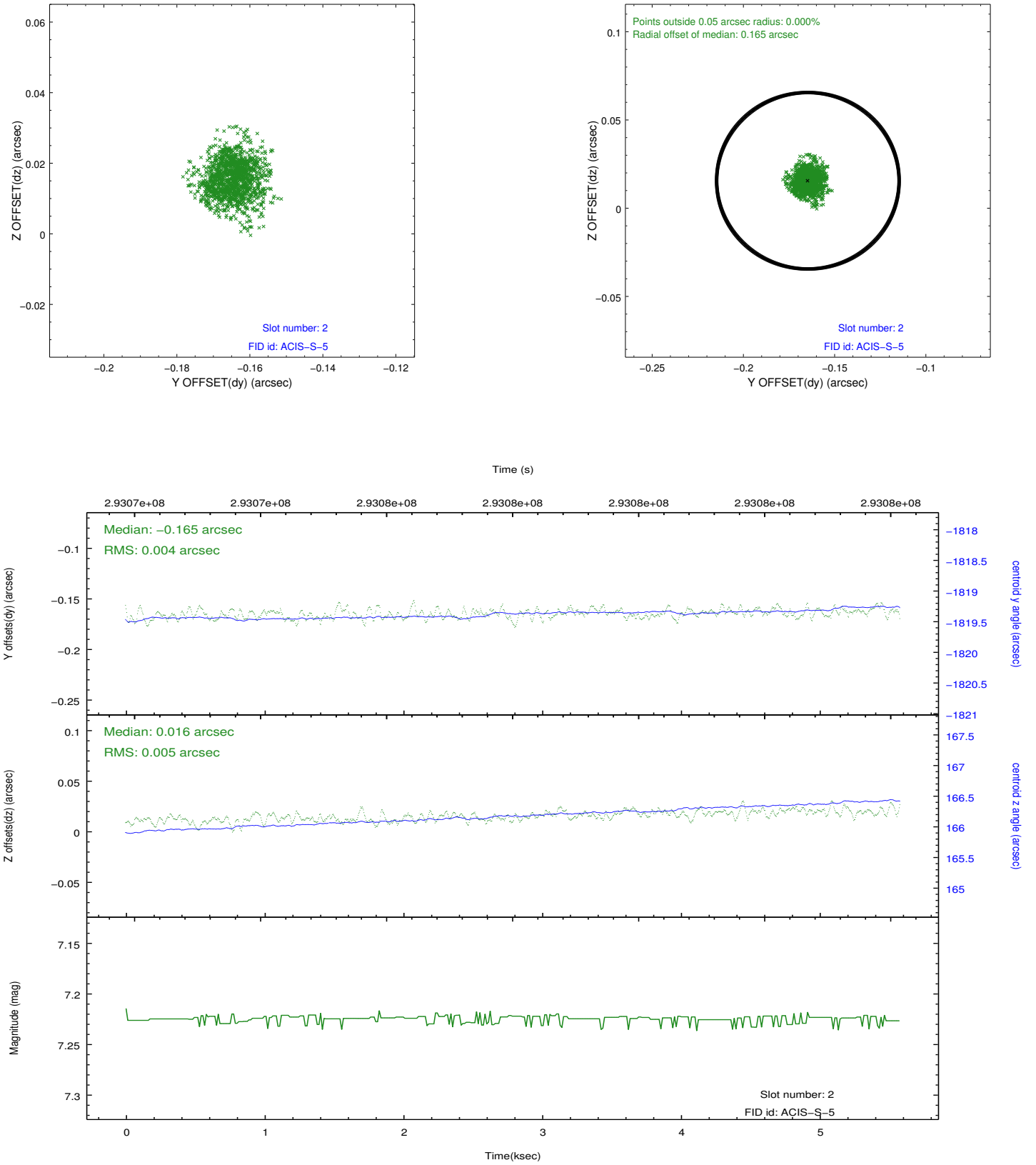
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments