

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 2365 - L2 Version 7
Chandra X-Ray Center

L2 Processing Date : Feb 8 2013

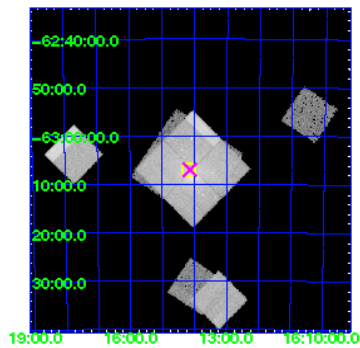
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1 Front

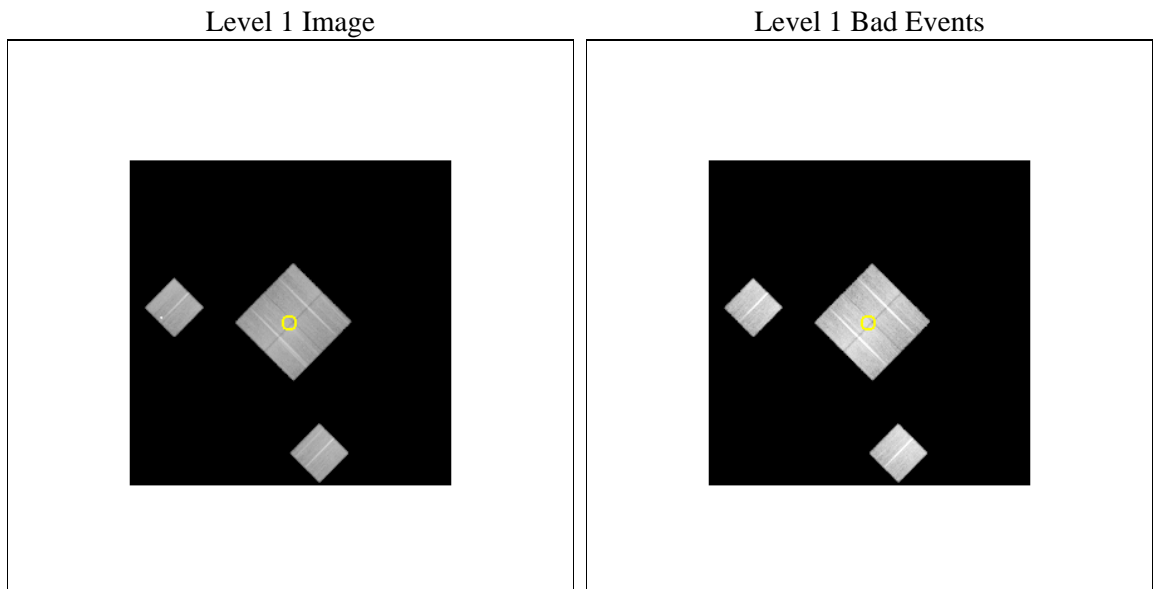
seq_num	900131	Sequence number
obs_id	2365	Observation id
title	A SURVEY OF X-RAY SELECTED SNR CANDIDATES	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	1RXSJ161411.3-630657	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.545833	Observer's specified target RA [deg]
dec_targ	-63.115833	Observer's specified target Dec [deg]
ra_nom	243.53615932016	Nominal RA [deg]
dec_nom	-63.117572556193	Nominal Dec [deg]
roll_nom	224.70784113636	Nominal Roll [deg]
revision	7	Processing version of data
ontime	33372.677120373	Sum of GTIs [s]
liveltime	32950.092188061	Livetime [s]
ontime0	33382.33150661	Sum of GTIs [s]
ontime1	33379.131586358	Sum of GTIs [s]
ontime2	33379.159050882	Sum of GTIs [s]
ontime3	33372.677120373	Sum of GTIs [s]
ontime4	33379.15907082	Sum of GTIs [s]
ontime9	33379.049506351	Sum of GTIs [s]
l2events	180922	Number of level 2 events



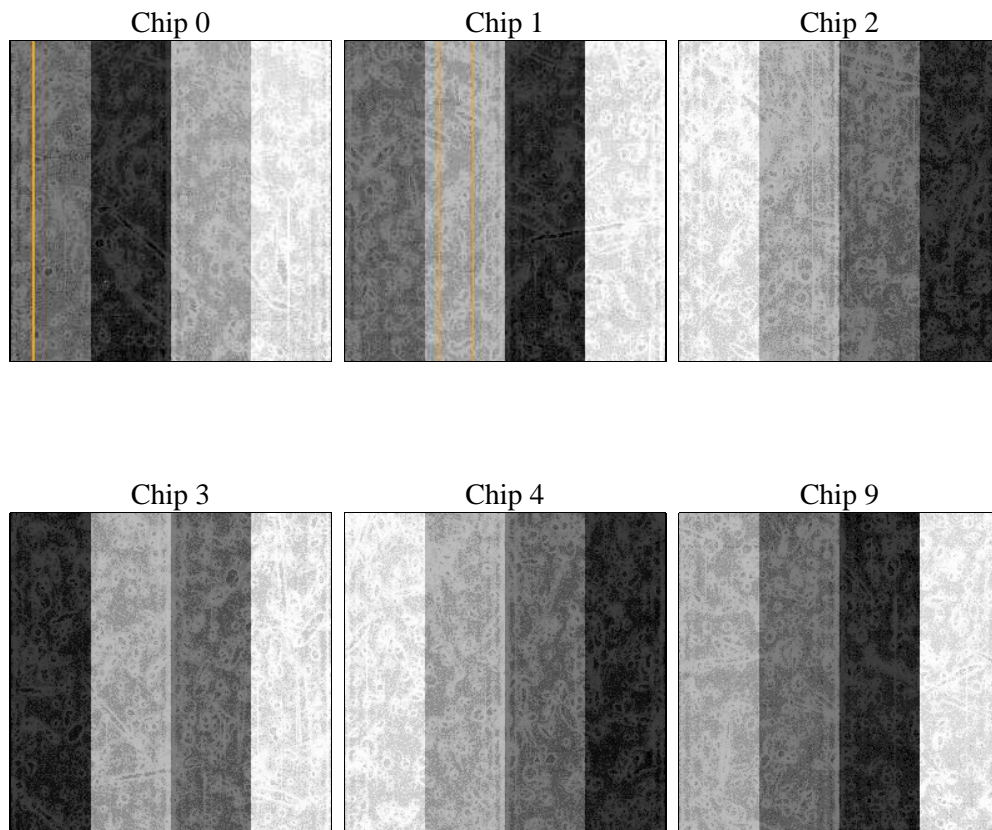
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33400.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	24217.518072128	Sum of GTIs [s]
caldbver	4.5.5	 	ontime0	24224.000022545	Sum of GTIs [s]
date	2013-02-08T03:16:22	Date and time of file creation	ontime1	24220.75906229	Sum of GTIs [s]
revision	8	Processing version of data	ontime2	24224.000022545	Sum of GTIs [s]
			ontime3	24217.518072128	Sum of GTIs [s]
			ontime4	24220.759062305	Sum of GTIs [s]
			ontime9	24224.000022545	Sum of GTIs [s]
			l1events	1081946	Number of level 1 events

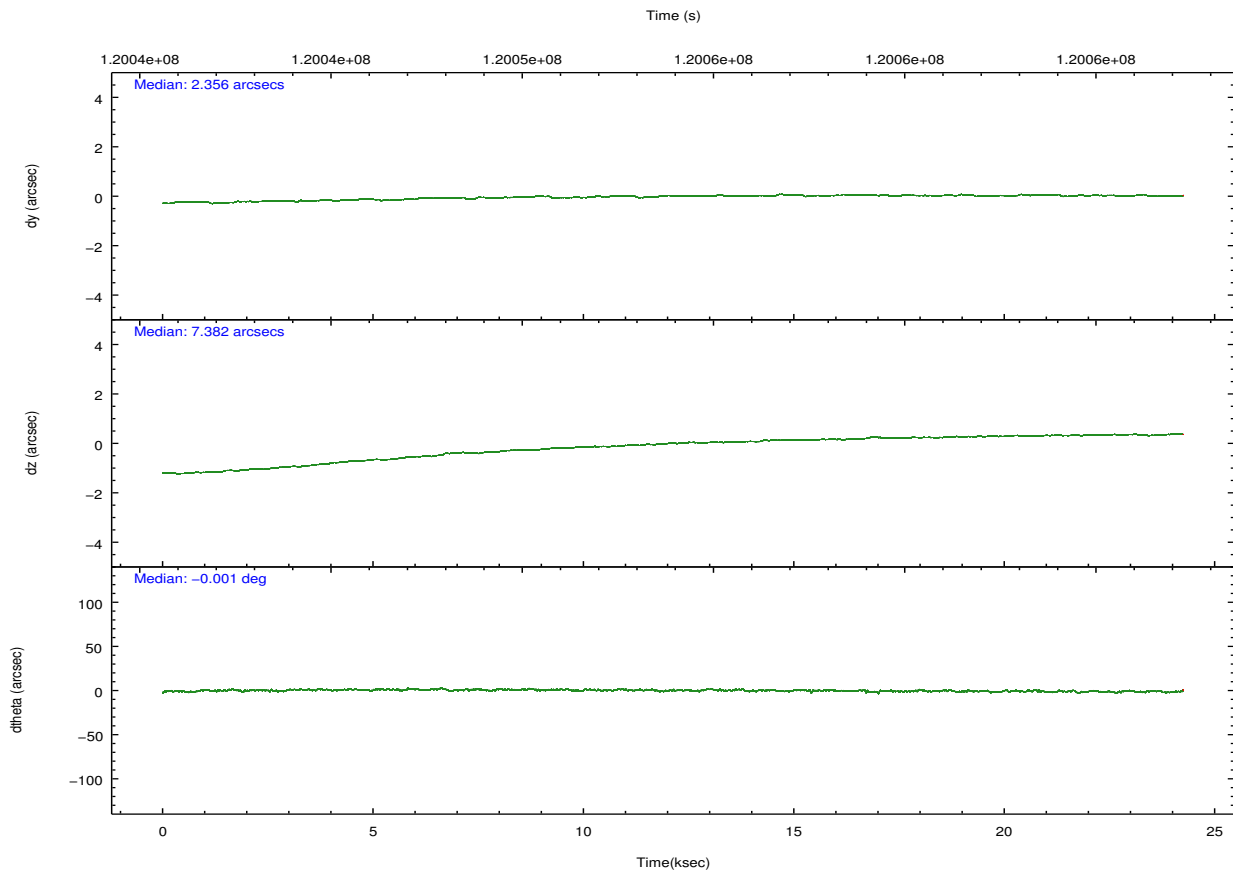
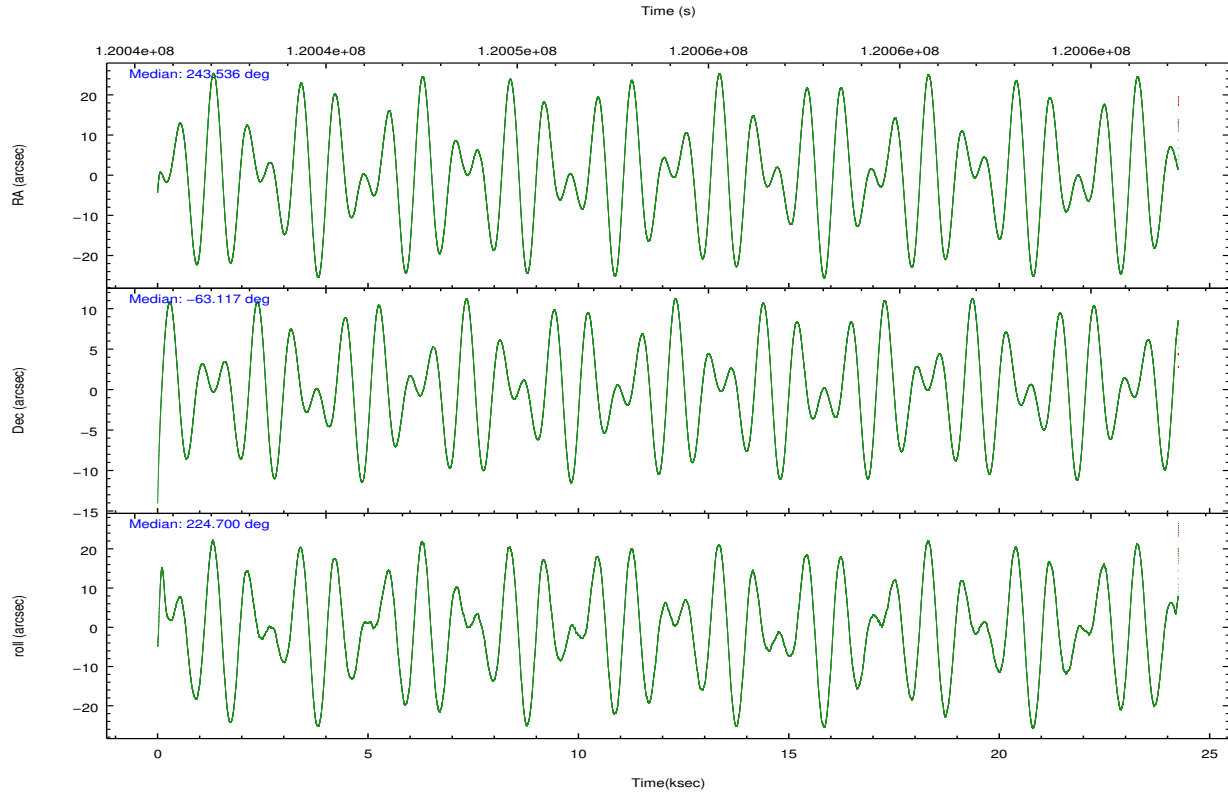
2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 4	ccd 9		ccd 0	ccd 1	ccd 2	ccd 3	ccd 4	ccd 9
level 1 events	152047	163732	194099	176604	204562	190902	grade 0 events	18639	16580	23170	14111	22982	25835
rejected events	121943	130494	157705	152256	167989	145080		12%	10%	11%	7%	11%	13%
rejected %	80%	79%	81%	86%	82%	75%	grade 1 events	150	91	183	109	284	123
								0%	0%	0%	0%	0%	0%
							grade 2 events	5151	7244	5653	3998	6326	9702
								3%	4%	2%	2%	3%	5%
							grade 3 events	1838	2312	1853	1777	2061	2144
								1%	1%	0%	1%	1%	1%
							grade 4 events	1857	2021	3009	1804	2438	1923
								1%	1%	1%	1%	1%	1%
							grade 5 events	3936	4494	4072	4565	4279	4950
								2%	2%	2%	2%	2%	2%
							grade 6 events	2753	5218	2873	2789	2896	6399
								1%	3%	1%	1%	1%	3%
							grade 7 events	117723	125772	153286	147451	163296	139826
								77%	76%	78%	83%	79%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012349	ACIS-012349	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	243.552043	243.5361593201646	Subarray requested	NONE	NONE
[deg] Pointing Dec	-63.091103	-63.117572556193	Alternating exposures requested	N	N
[deg] Pointing Roll	224.513328	224.7078411363565	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	120041958.184000	120040857.96451			
Observation start date	2001-10-21T08:58:14	2001-10-21T08:40:57			
[s] Observation end time (MET)	120075358.184000	120066087.31552			
Observation end date	2001-10-21T18:14:54	2001-10-21T15:41:27			
Read mode	TIMED	TIMED			

2.3 Aspect

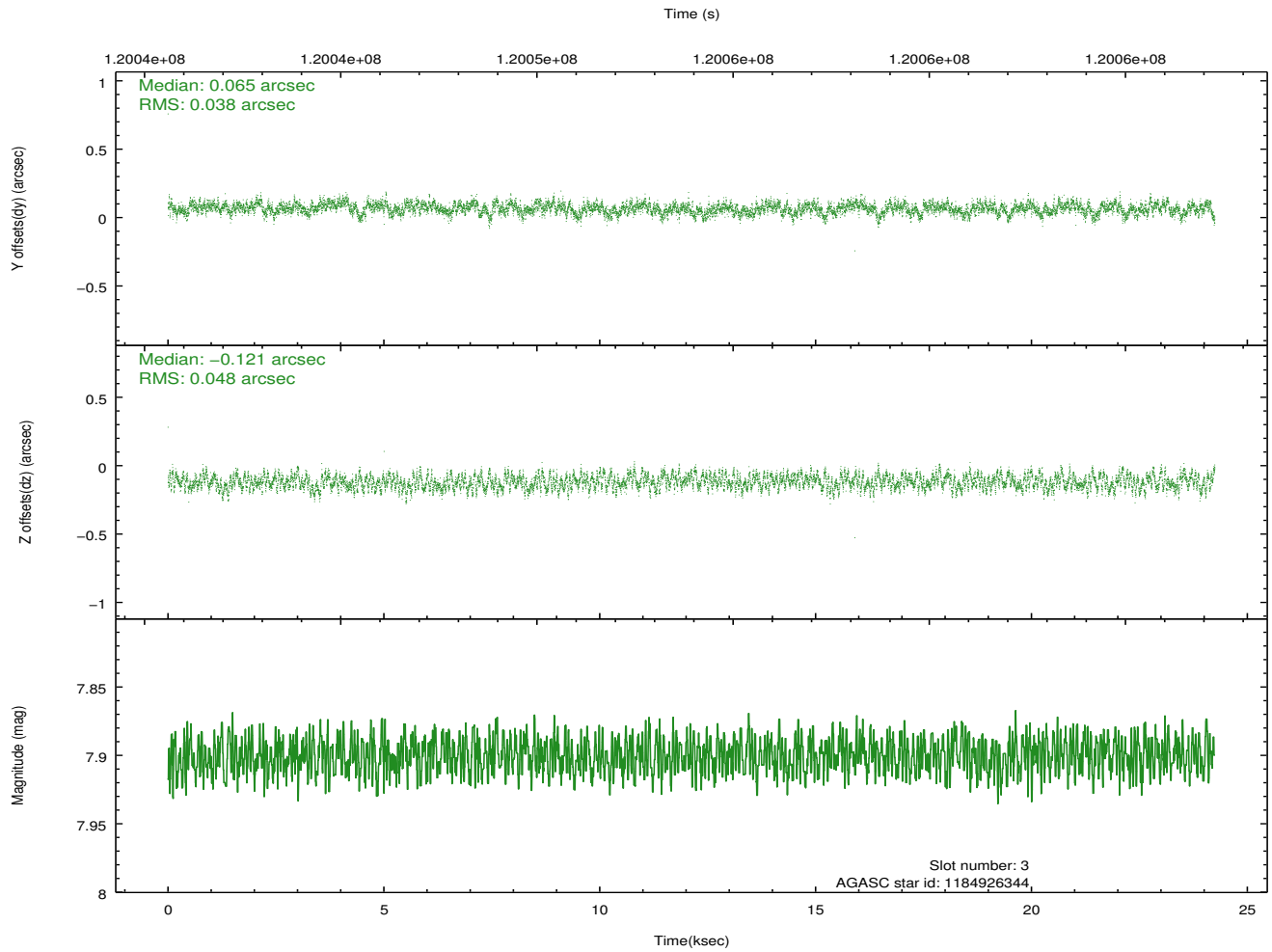
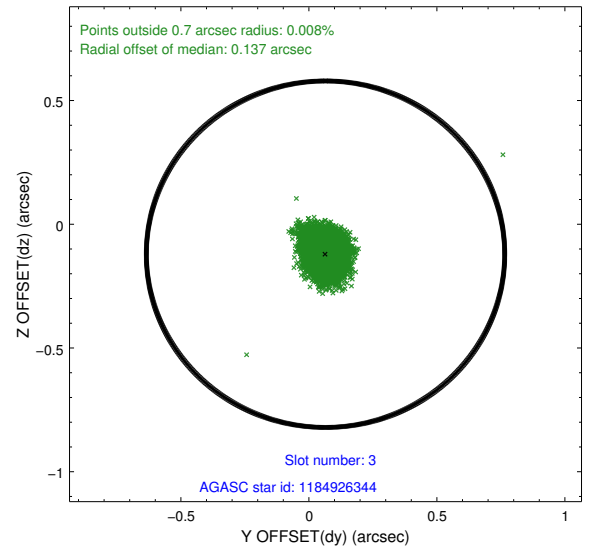
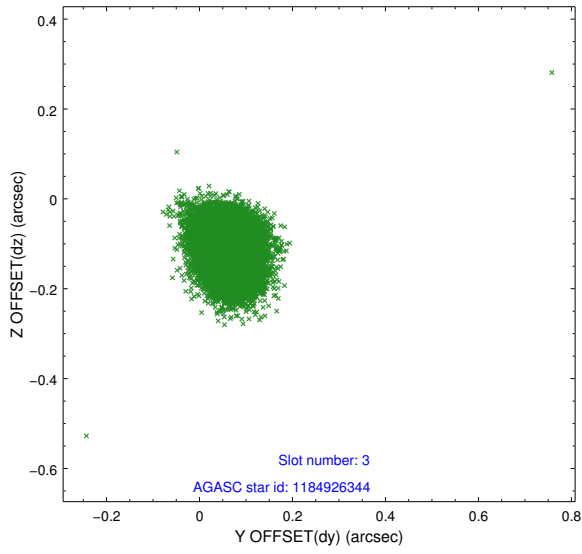


Slot Statistics

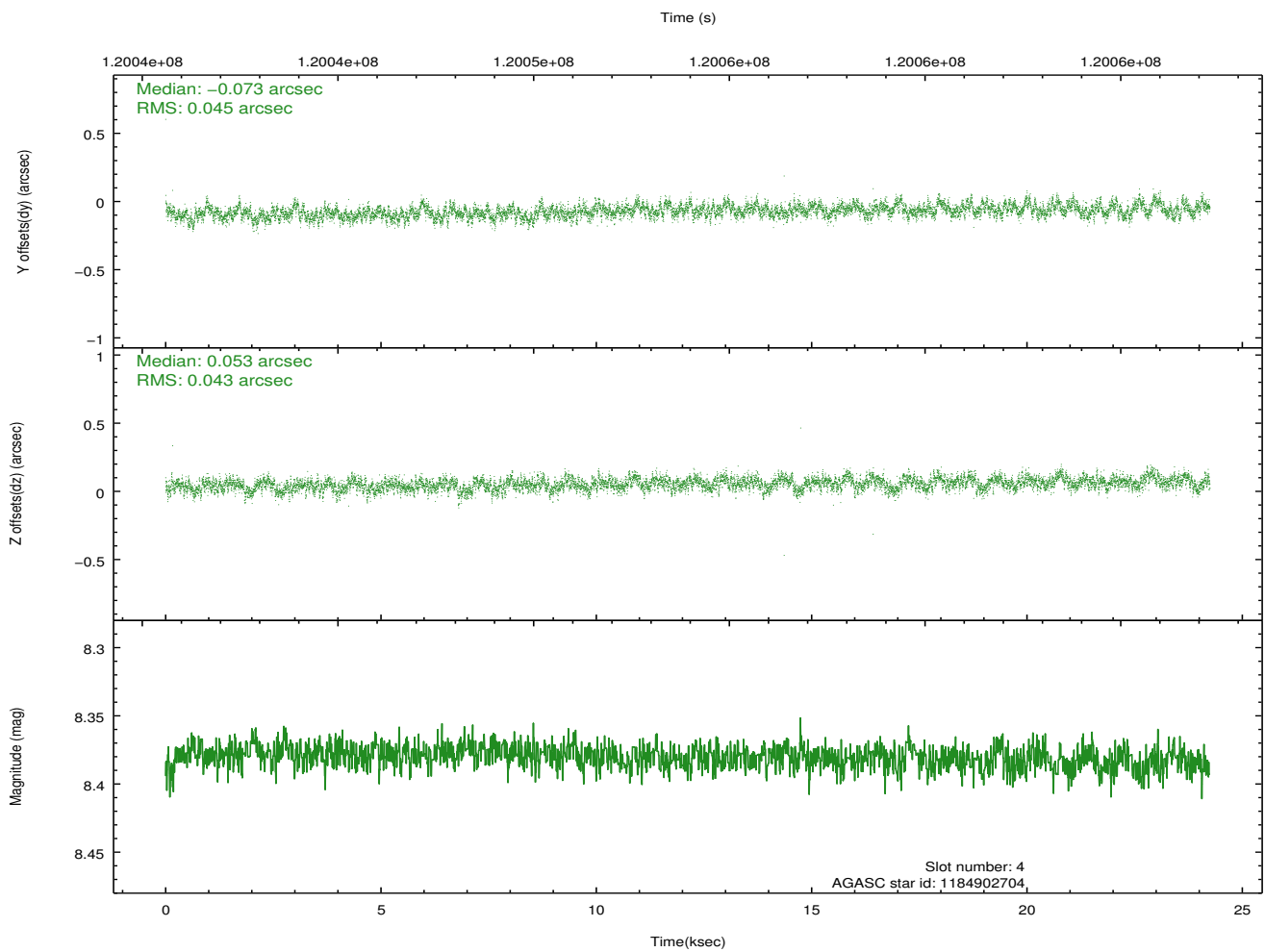
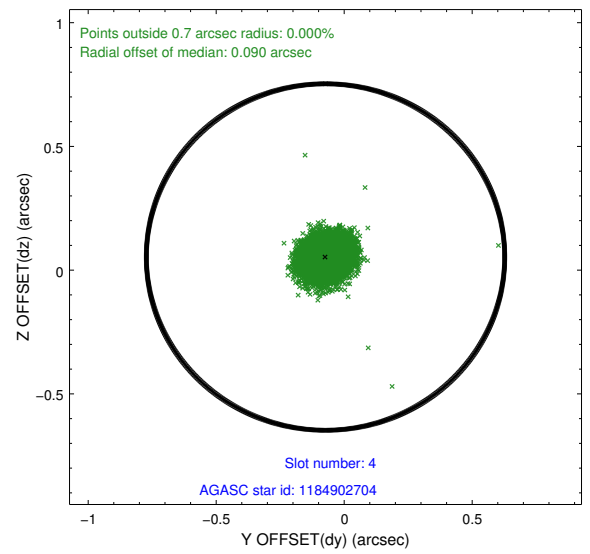
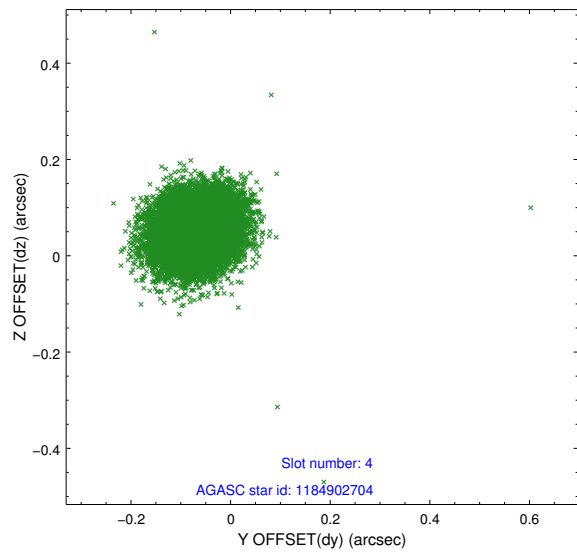
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	5913	-0.024	0.021	0.015	0.025	0.000000	0.000000	937.47	-830.59
1	FID	ACIS-I-5	7.24	5913	-0.037	0.029	0.015	0.025	0.000000	0.000000	-1810.56	1066.89
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	1184926344	7.90	11828	0.065	-0.121	0.066	0.103	242.612098	-62.922909	681.89	-1503.11
4	GUIDE	1184902704	8.38	11826	-0.073	0.053	0.065	0.106	243.966380	-62.438289	-2138.19	-1190.34
5	GUIDE	1184897704	9.08	11824	0.042	-0.018	0.075	0.124	242.251037	-62.918879	1100.86	-1920.99
6	GUIDE	1184905208	8.97	11824	0.010	0.081	0.093	0.149	244.129367	-63.599668	627.29	1956.92
7	GUIDE	1185050656	9.49	11814	-0.040	0.006	0.097	0.159	244.506293	-63.404075	-299.15	1890.39

2.4 Star Slots

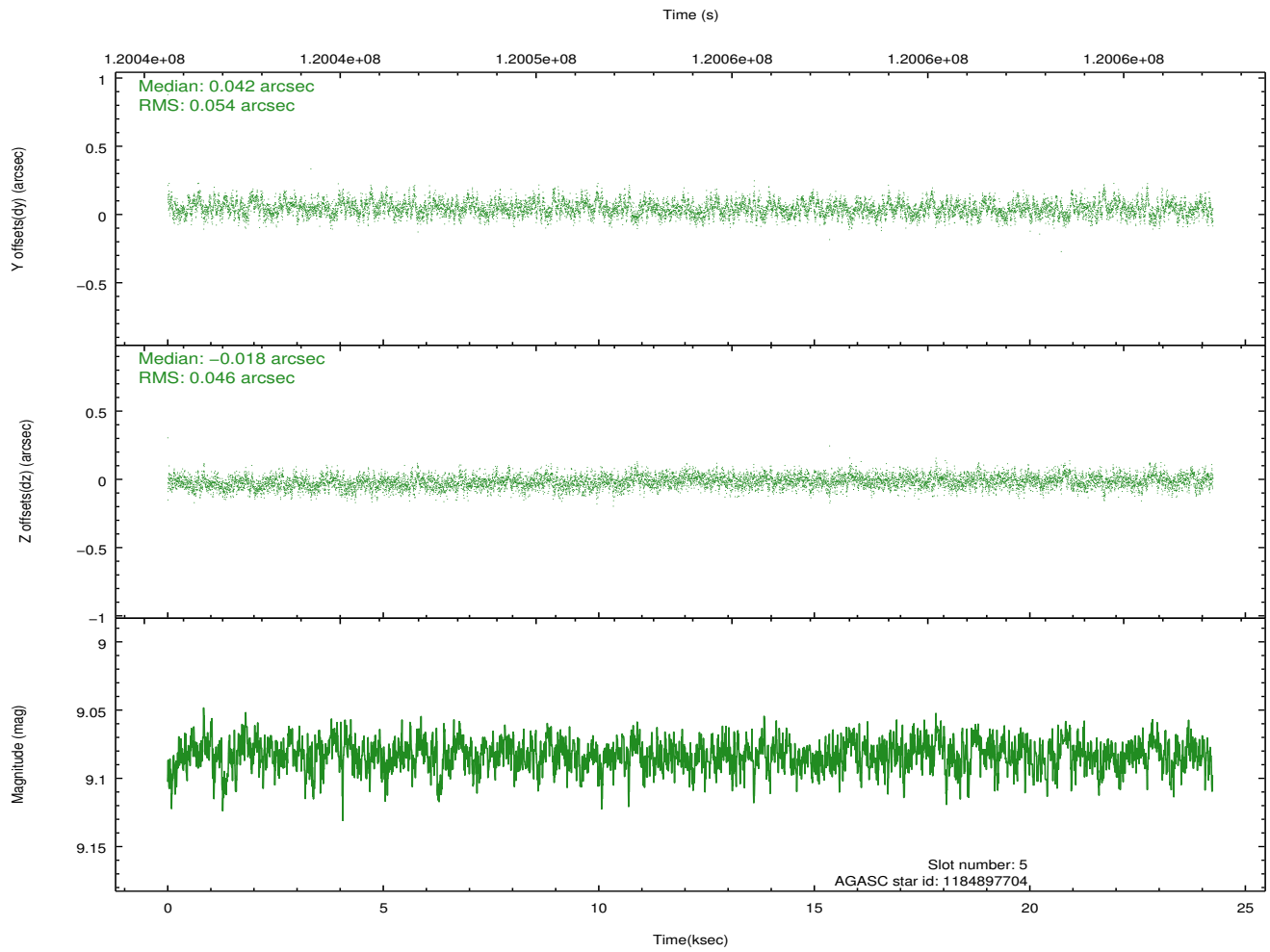
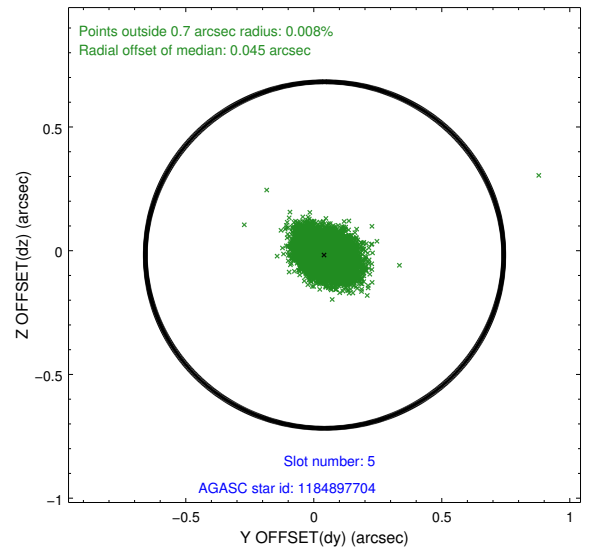
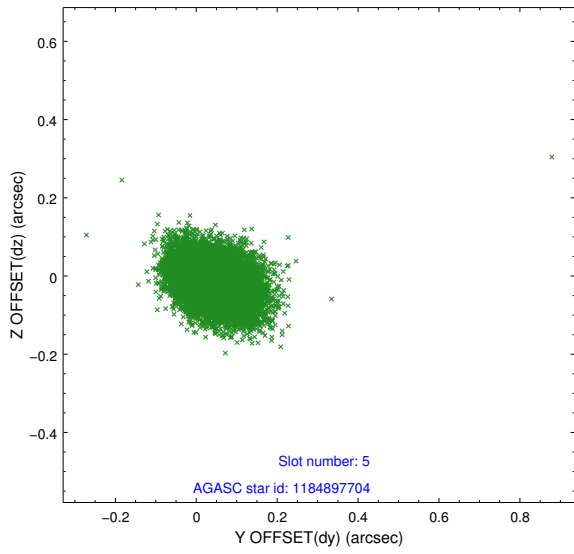
2.4.1 Slot 3



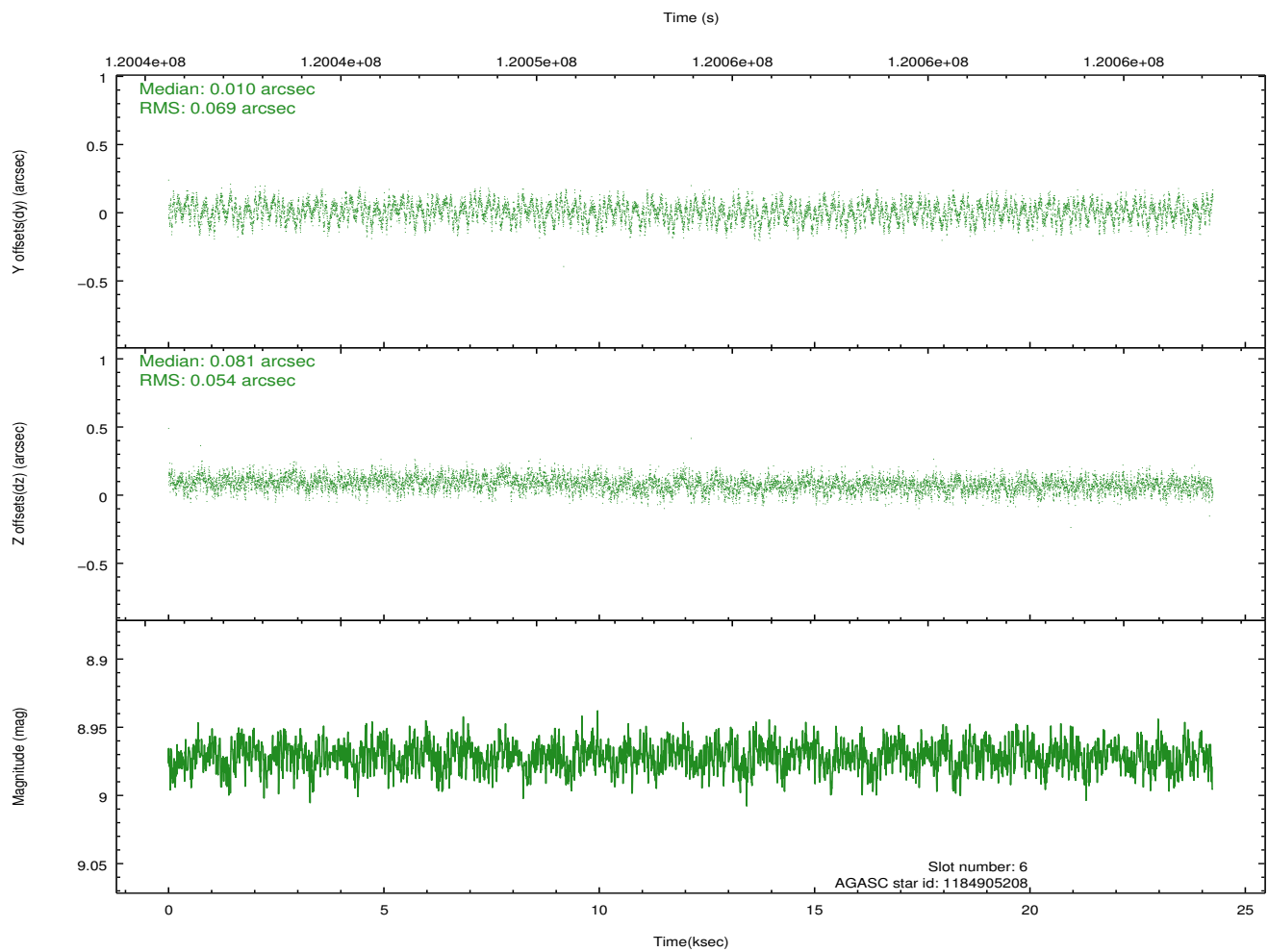
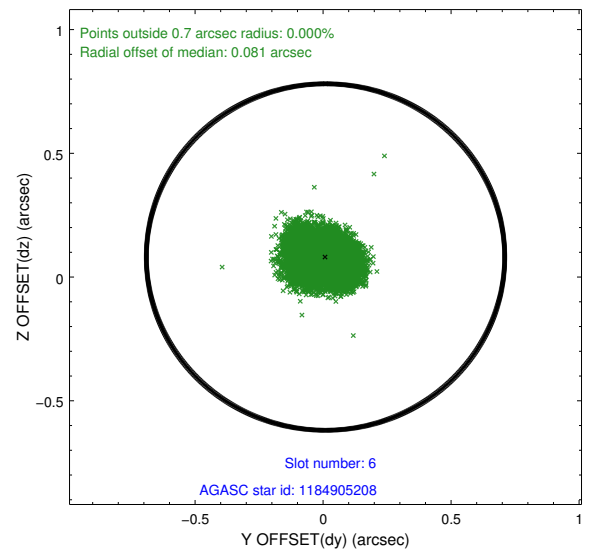
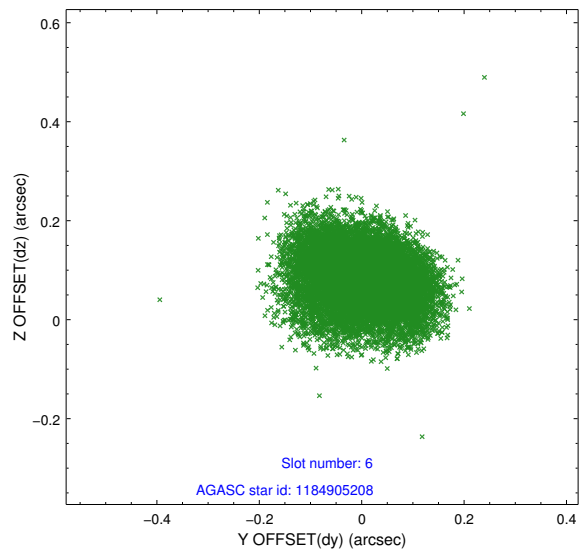
2.4.2 Slot 4



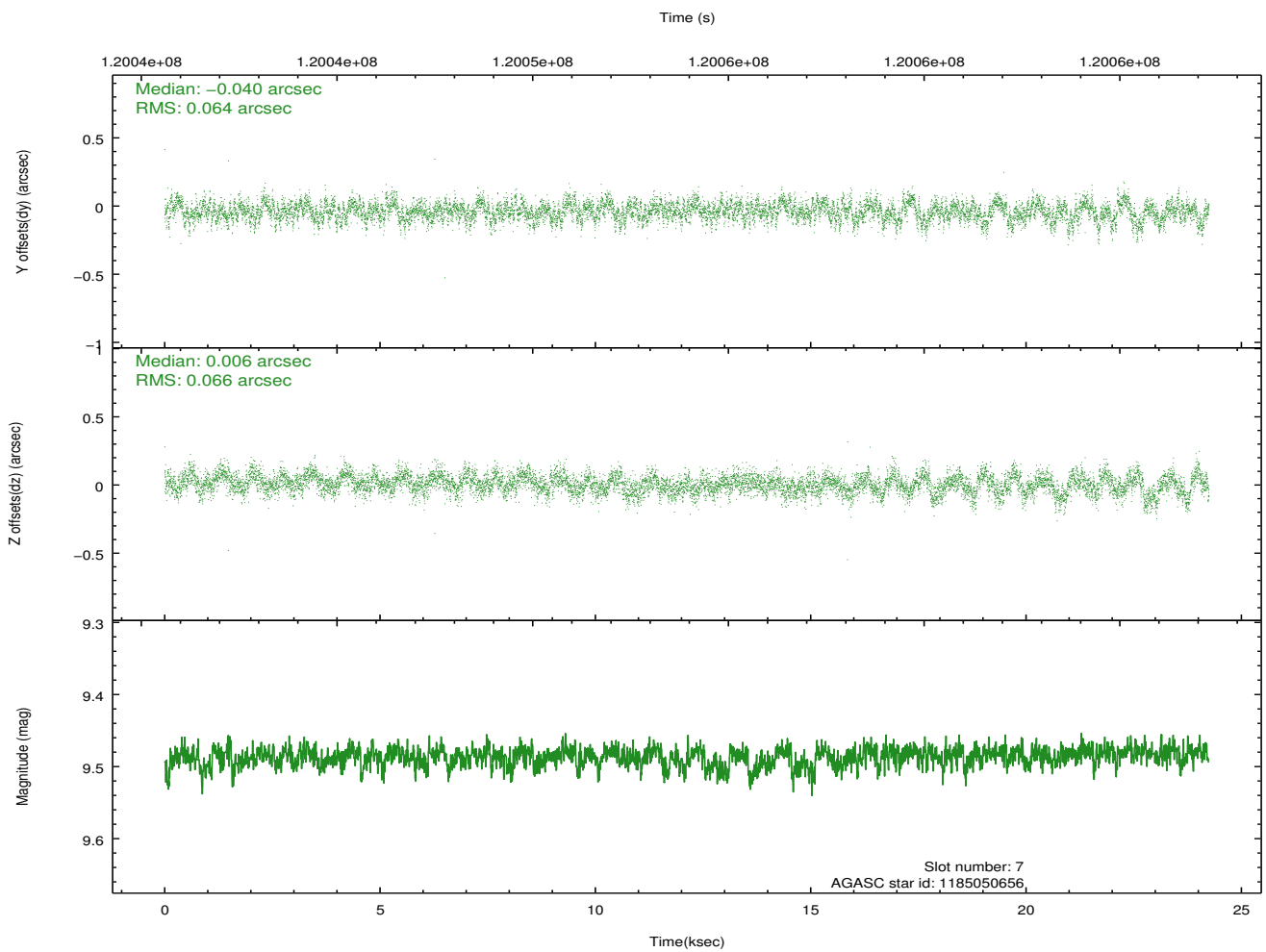
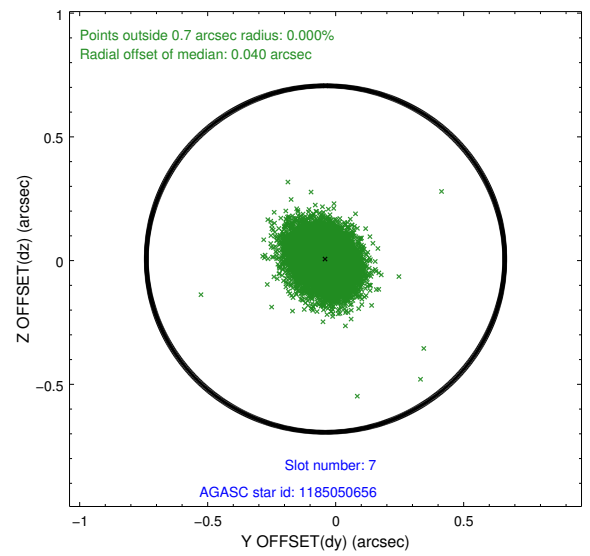
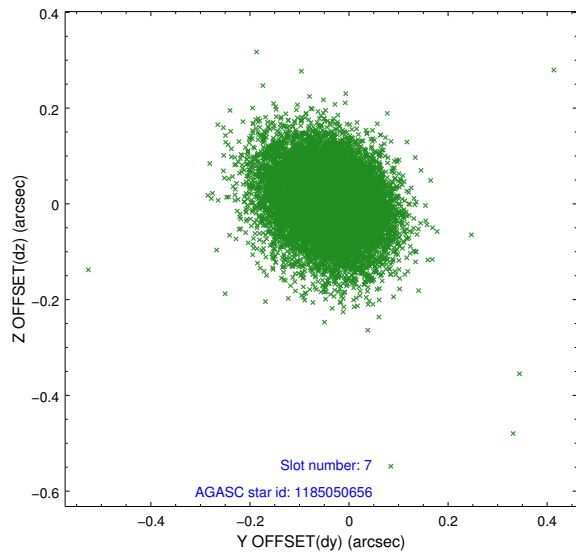
2.4.3 Slot 5



2.4.4 Slot 6

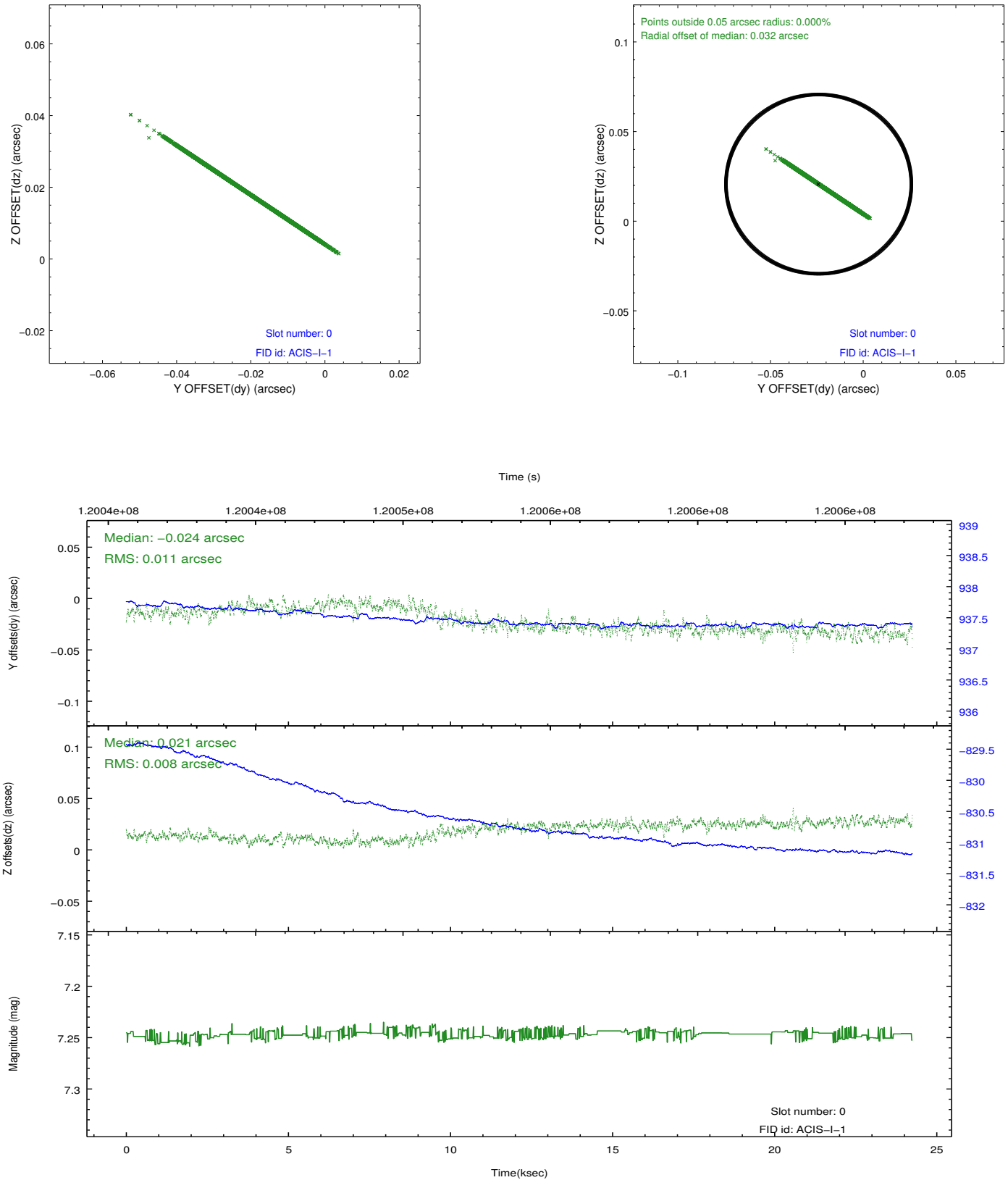


2.4.5 Slot 7

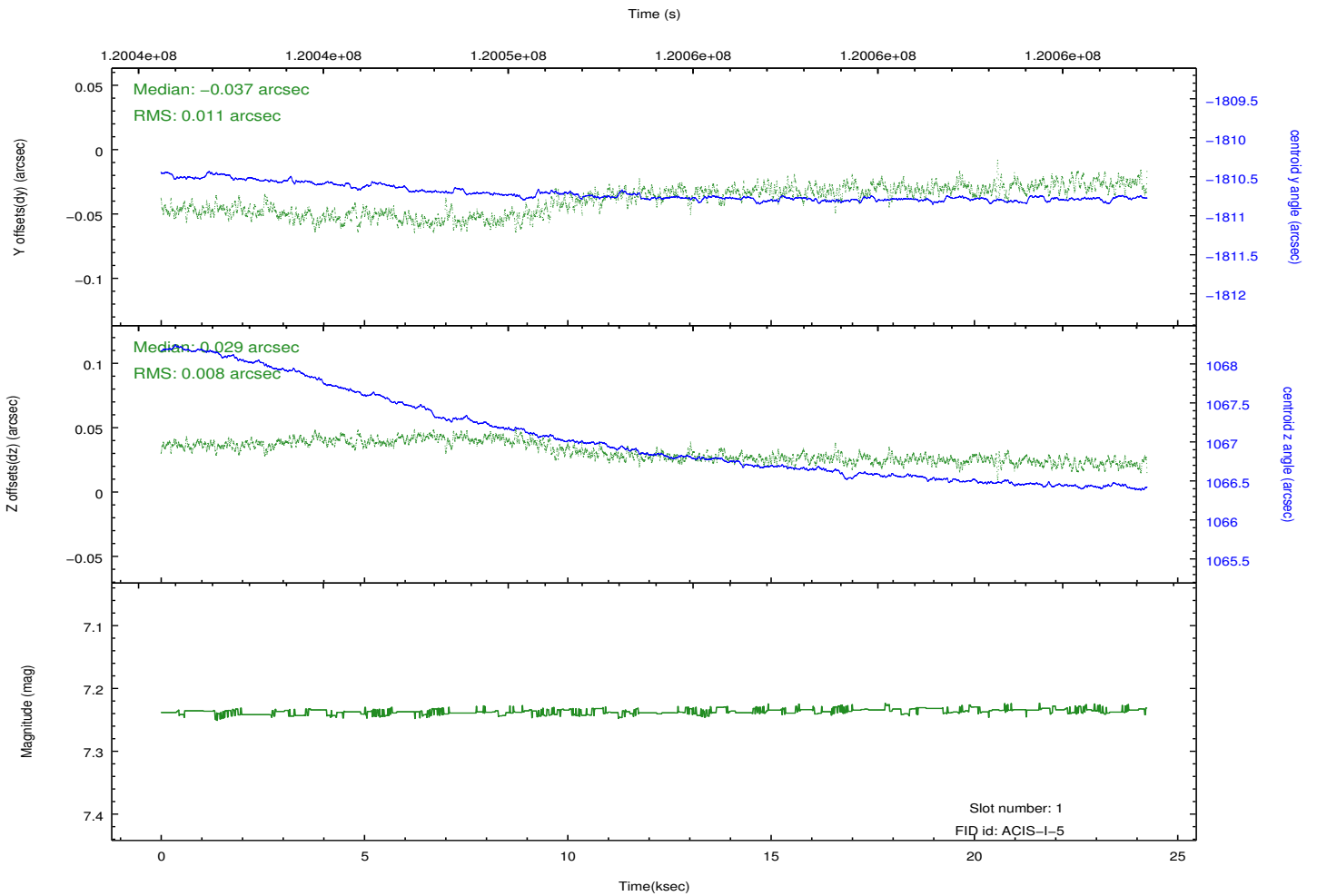
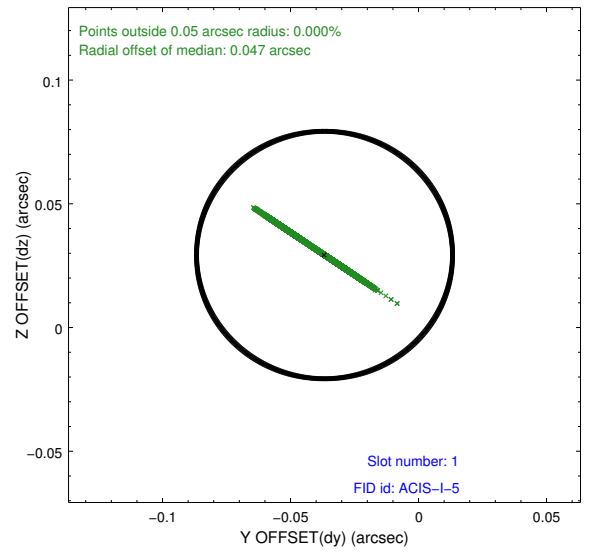
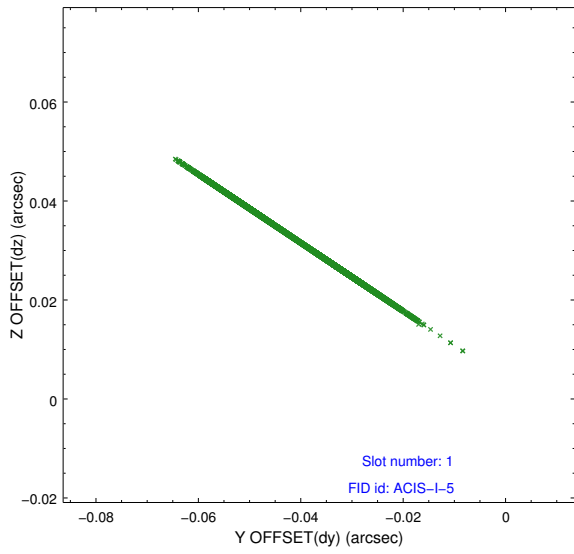


2.5 FID Slots

2.5.1 Slot 0



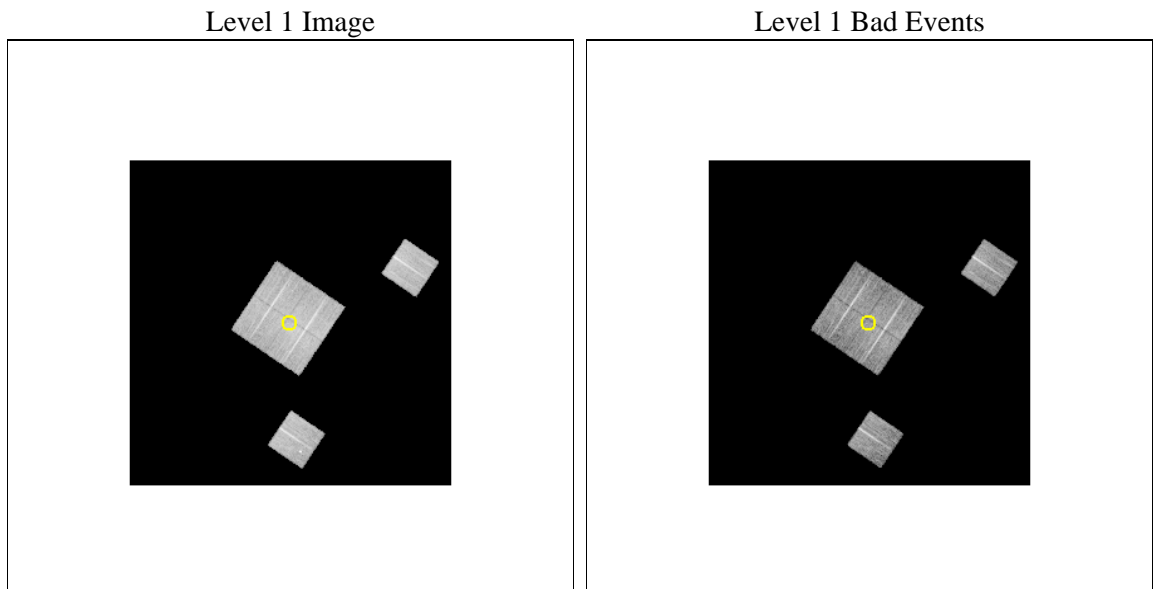
2.5.2 Slot 1



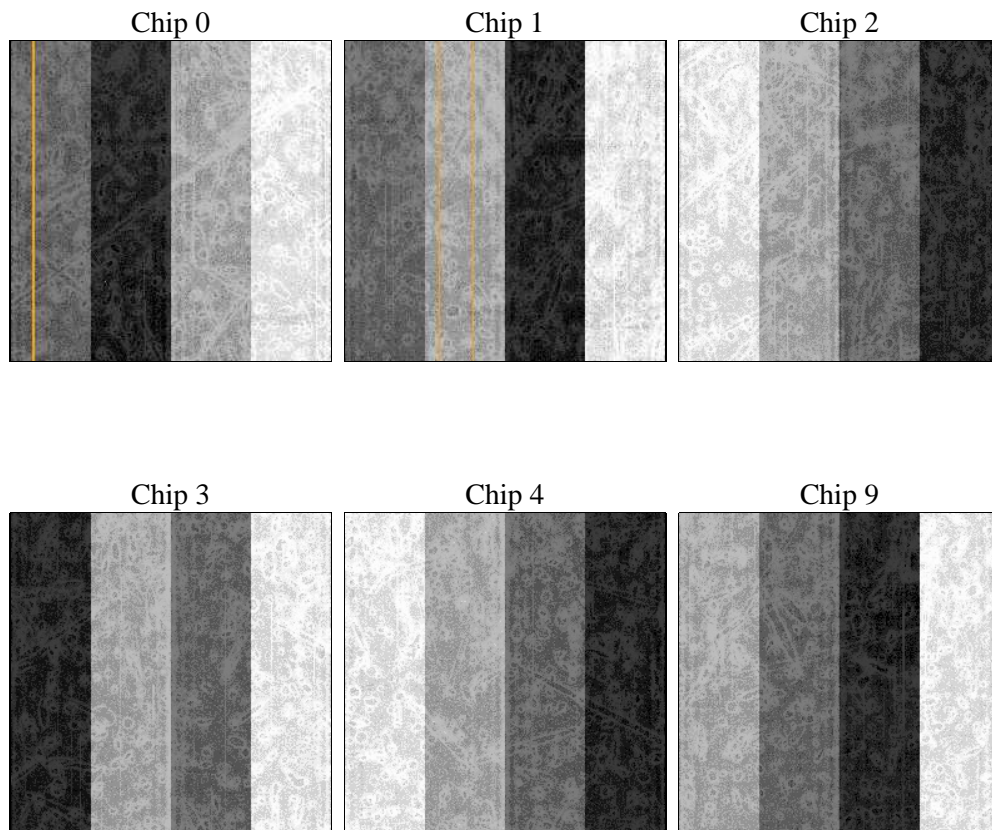
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	9183.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	9155.1590482444	Sum of GTIs [s]
caldbver	4.5.5	 	ontime0	9158.3314840645	Sum of GTIs [s]
date	2013-02-08T02:47:45	Date and time of file creation	ontime1	9158.3725240678	Sum of GTIs [s]
revision	6	Processing version of data	ontime2	9155.1590283364	Sum of GTIs [s]
			ontime3	9155.1590482444	Sum of GTIs [s]
			ontime4	9158.4000085145	Sum of GTIs [s]
			ontime9	9155.0494838059	Sum of GTIs [s]
			l1events	307273	Number of level 1 events

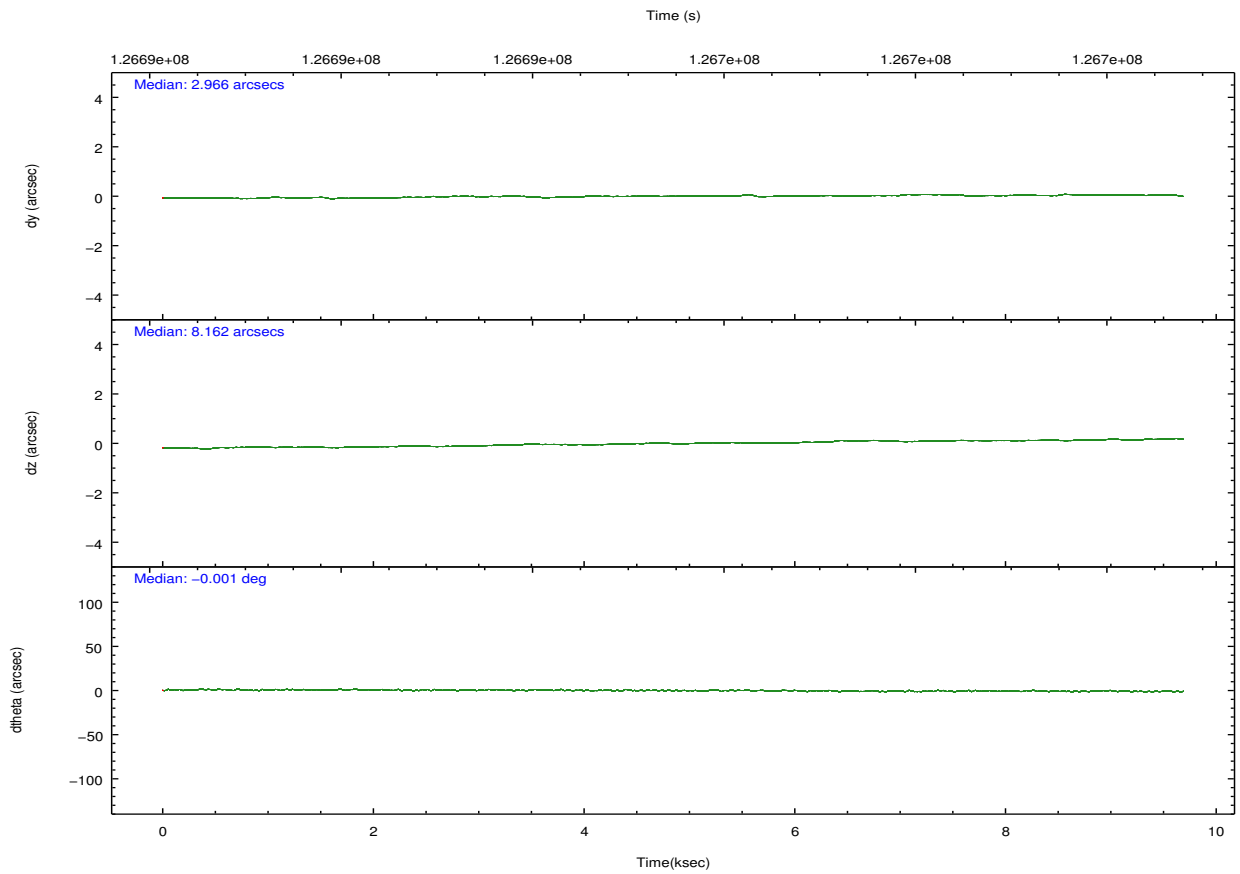
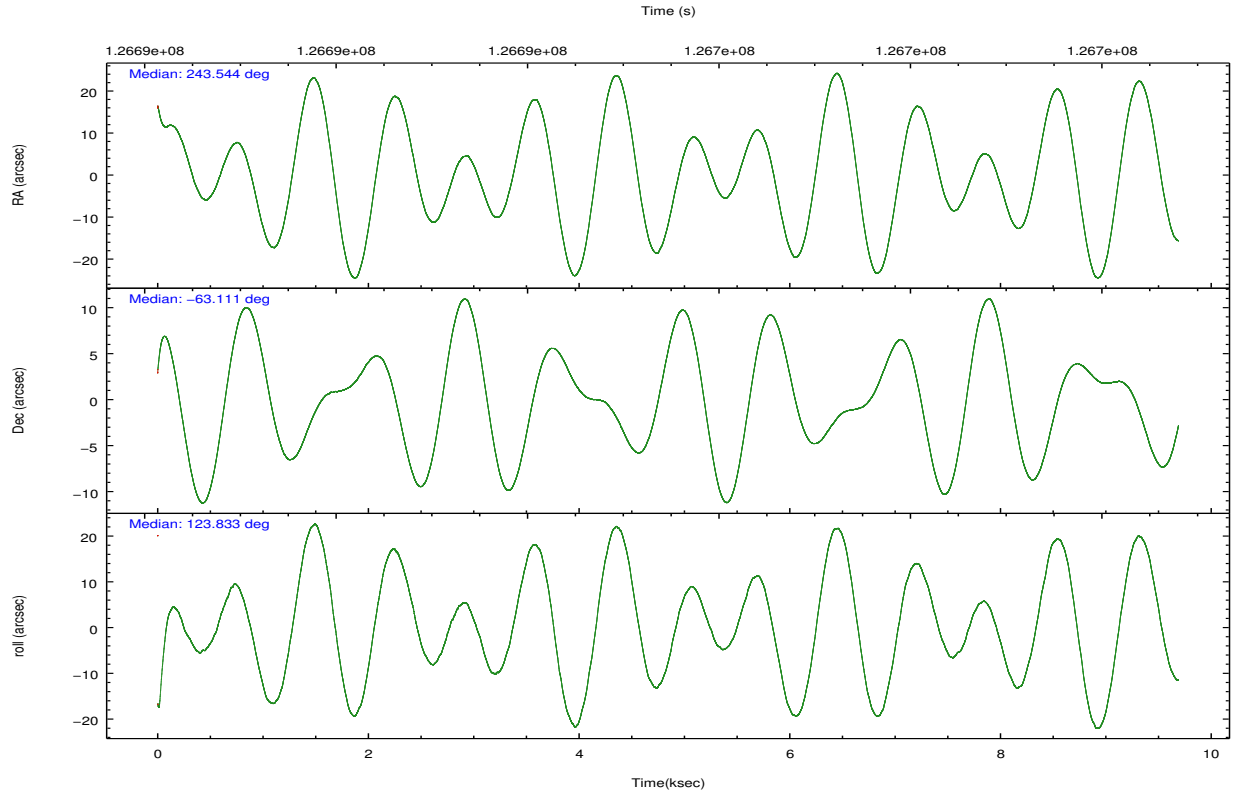
3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 4	ccd 9		ccd 0	ccd 1	ccd 2	ccd 3	ccd 4	ccd 9
level 1 events	46346	46461	54303	53849	56647	49667	grade 0 events	2305	2896	3604	4369	2301	3022
rejected events	40851	40127	47200	45998	51033	43230		4%	6%	6%	8%	4%	6%
rejected %	88%	86%	86%	85%	90%	87%	grade 1 events	30	22	30	32	22	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	1282	1217	1458	1314	1424	1246
								2%	2%	2%	2%	2%	2%
							grade 3 events	522	602	520	623	504	545
								1%	1%	0%	1%	0%	1%
							grade 4 events	471	610	574	575	515	529
								1%	1%	1%	1%	0%	1%
							grade 5 events	1518	1552	1400	1708	1621	1955
								3%	3%	2%	3%	2%	3%
							grade 6 events	917	1010	948	973	872	1097
								1%	2%	1%	1%	1%	2%
							grade 7 events	39301	38552	45769	44255	49388	41243
								84%	82%	84%	82%	87%	83%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012349	ACIS-012349	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	243.598372	243.5439806596158	Subarray requested	NONE	NONE
[deg] Pointing Dec	-63.123238	-63.1112730726724	Alternating exposures requested	N	N
[deg] Pointing Roll	123.674231	123.8343662554222	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	126691131.184000	126690011.70531			
Observation start date	2002-01-06T07:57:47	2002-01-06T07:40:11			
[s] Observation end time (MET)	126700314.184000	126700854.15575			
Observation end date	2002-01-06T10:30:50	2002-01-06T10:40:54			
Read mode	TIMED	TIMED			

3.3 Aspect

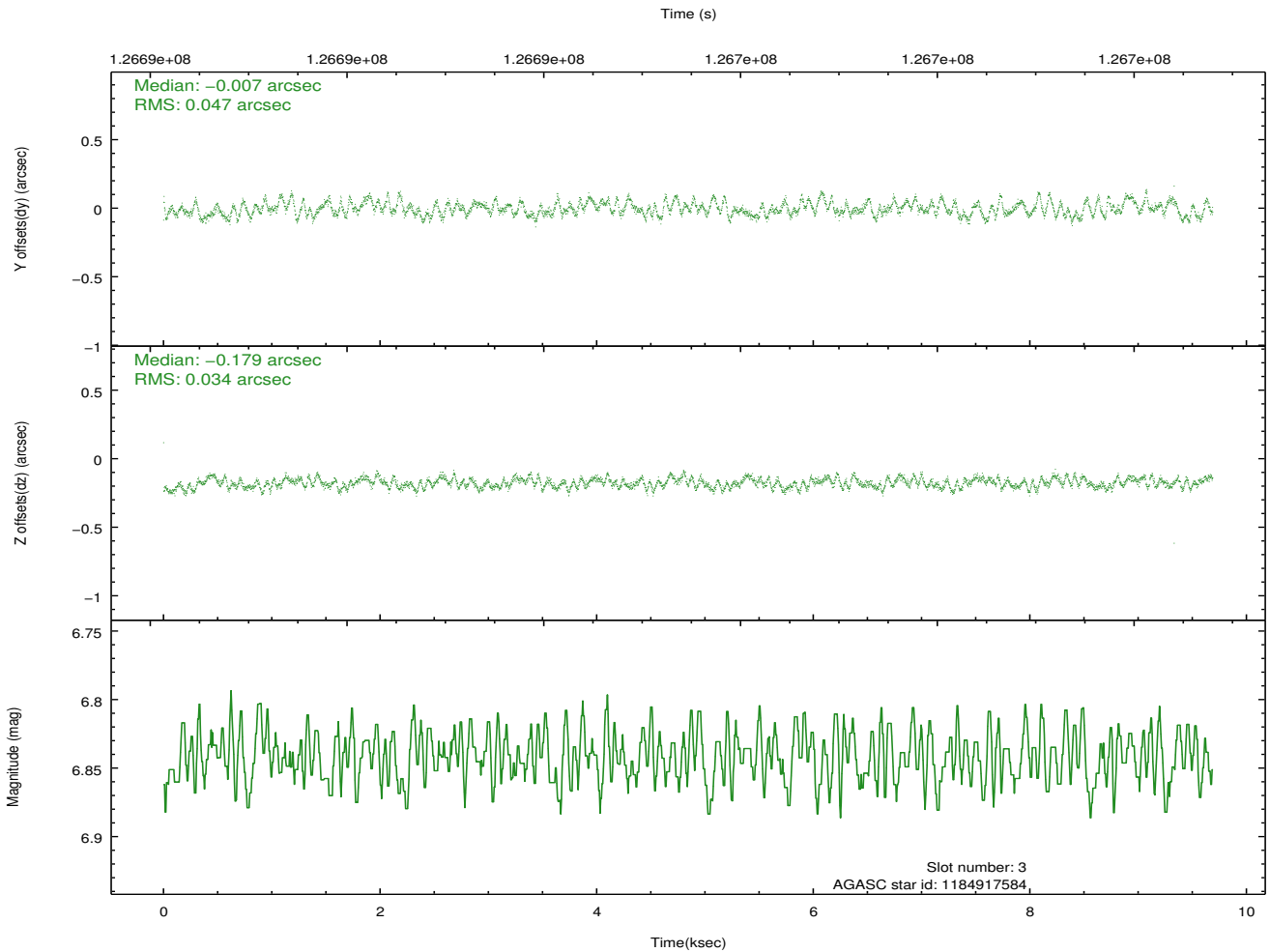
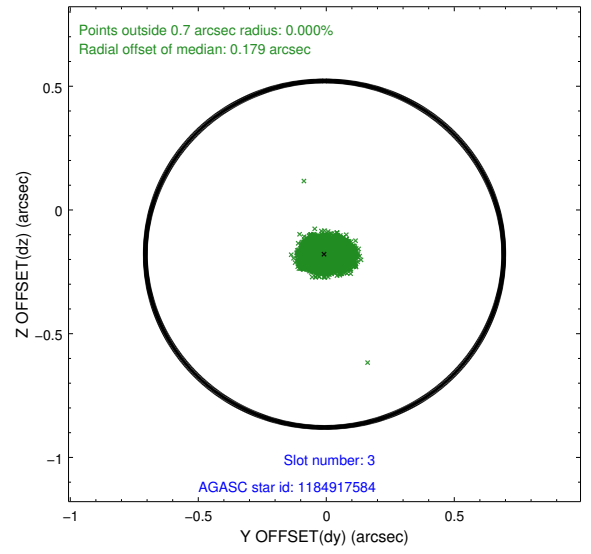
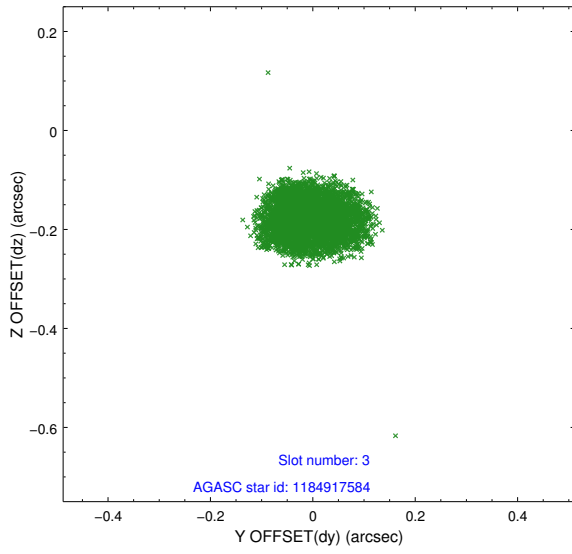


Slot Statistics

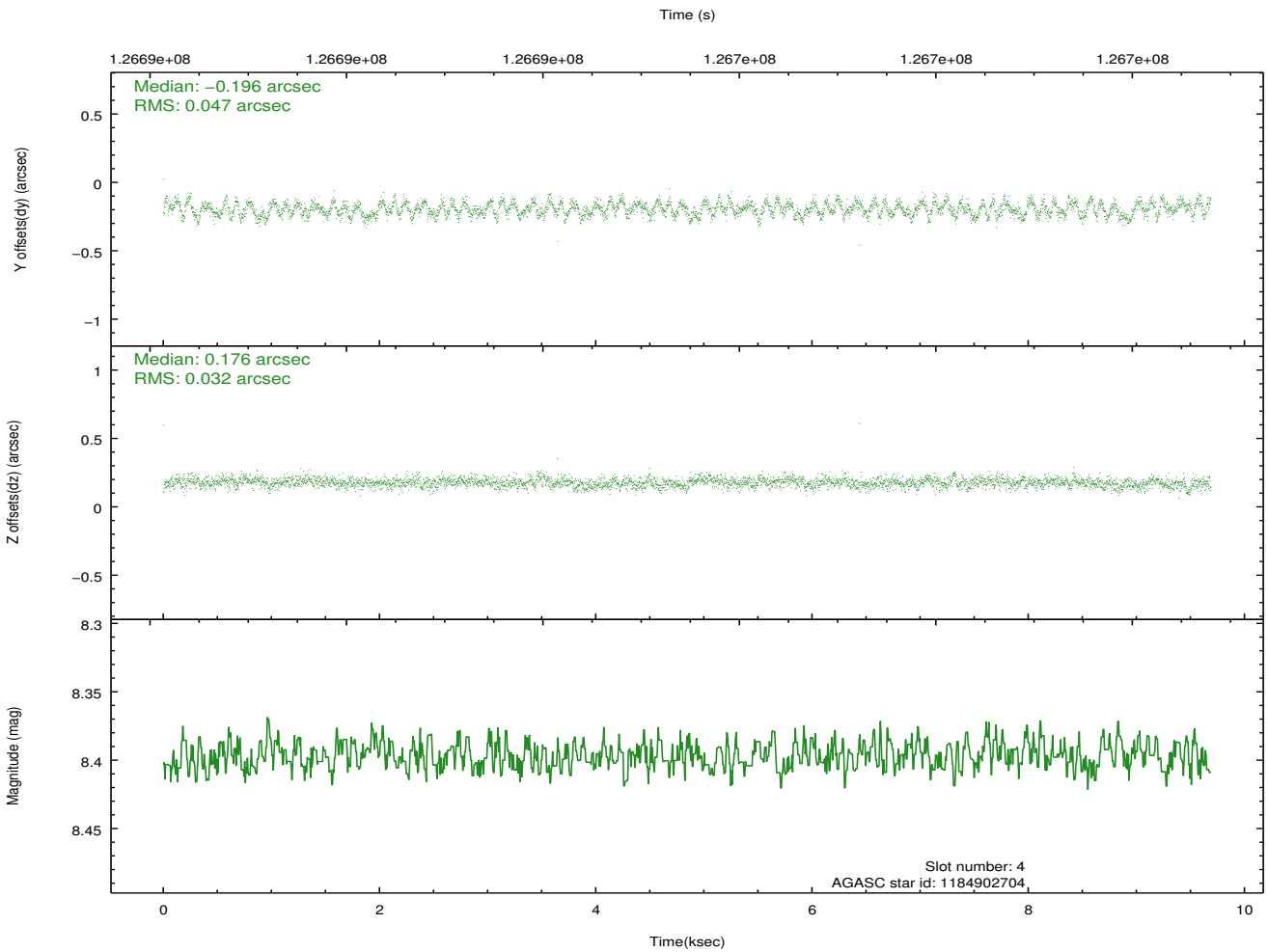
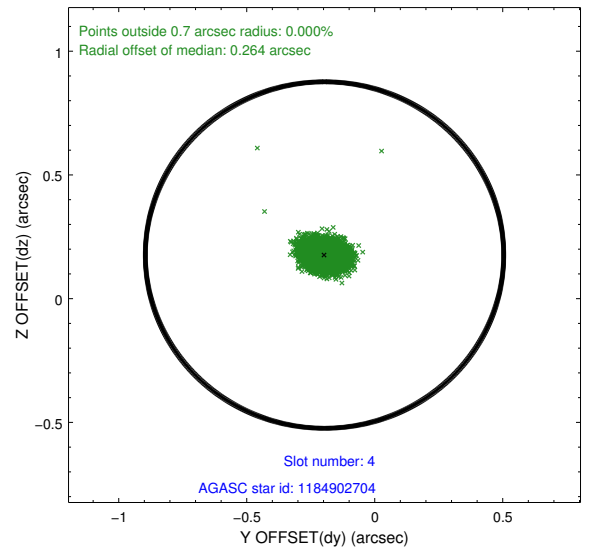
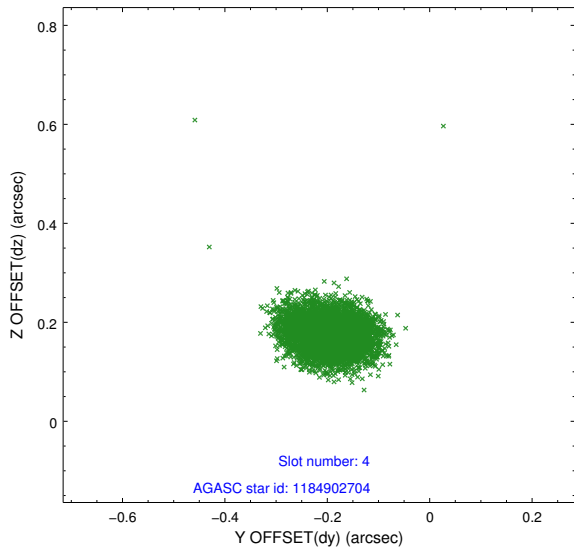
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	5913	-0.024	0.021	0.015	0.025	0.000000	0.000000	937.47	-830.59
1	FID	ACIS-I-5	7.24	5913	-0.037	0.029	0.015	0.025	0.000000	0.000000	-1810.56	1066.89
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	1184926344	7.90	11828	0.065	-0.121	0.066	0.103	242.612098	-62.922909	681.89	-1503.11
4	GUIDE	1184902704	8.38	11826	-0.073	0.053	0.065	0.106	243.966380	-62.438289	-2138.19	-1190.34
5	GUIDE	1184897704	9.08	11824	0.042	-0.018	0.075	0.124	242.251037	-62.918879	1100.86	-1920.99
6	GUIDE	1184905208	8.97	11824	0.010	0.081	0.093	0.149	244.129367	-63.599668	627.29	1956.92
7	GUIDE	1185050656	9.49	11814	-0.040	0.006	0.097	0.159	244.506293	-63.404075	-299.15	1890.39

3.4 Star Slots

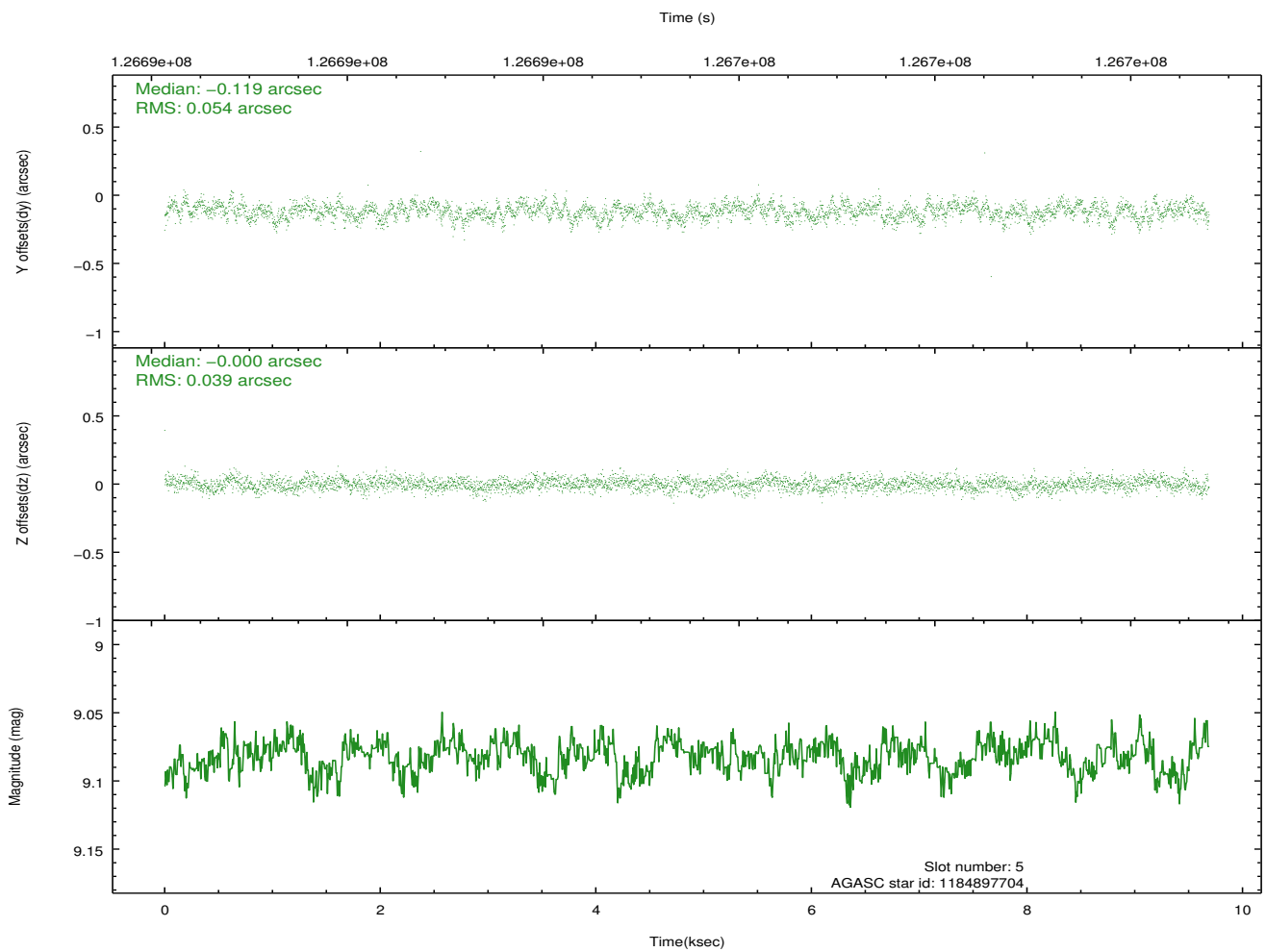
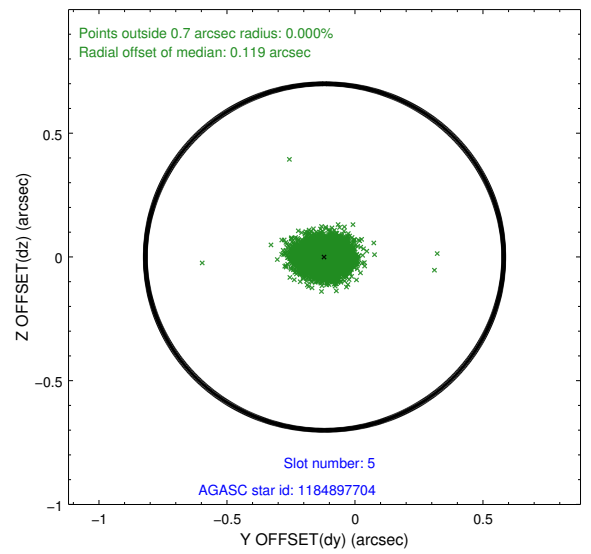
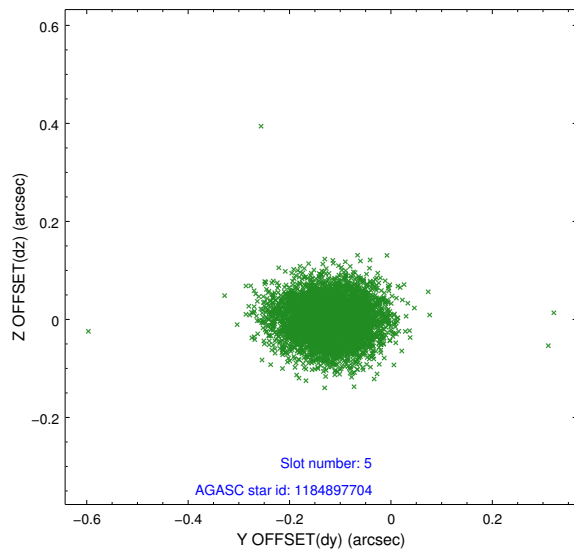
3.4.1 Slot 3



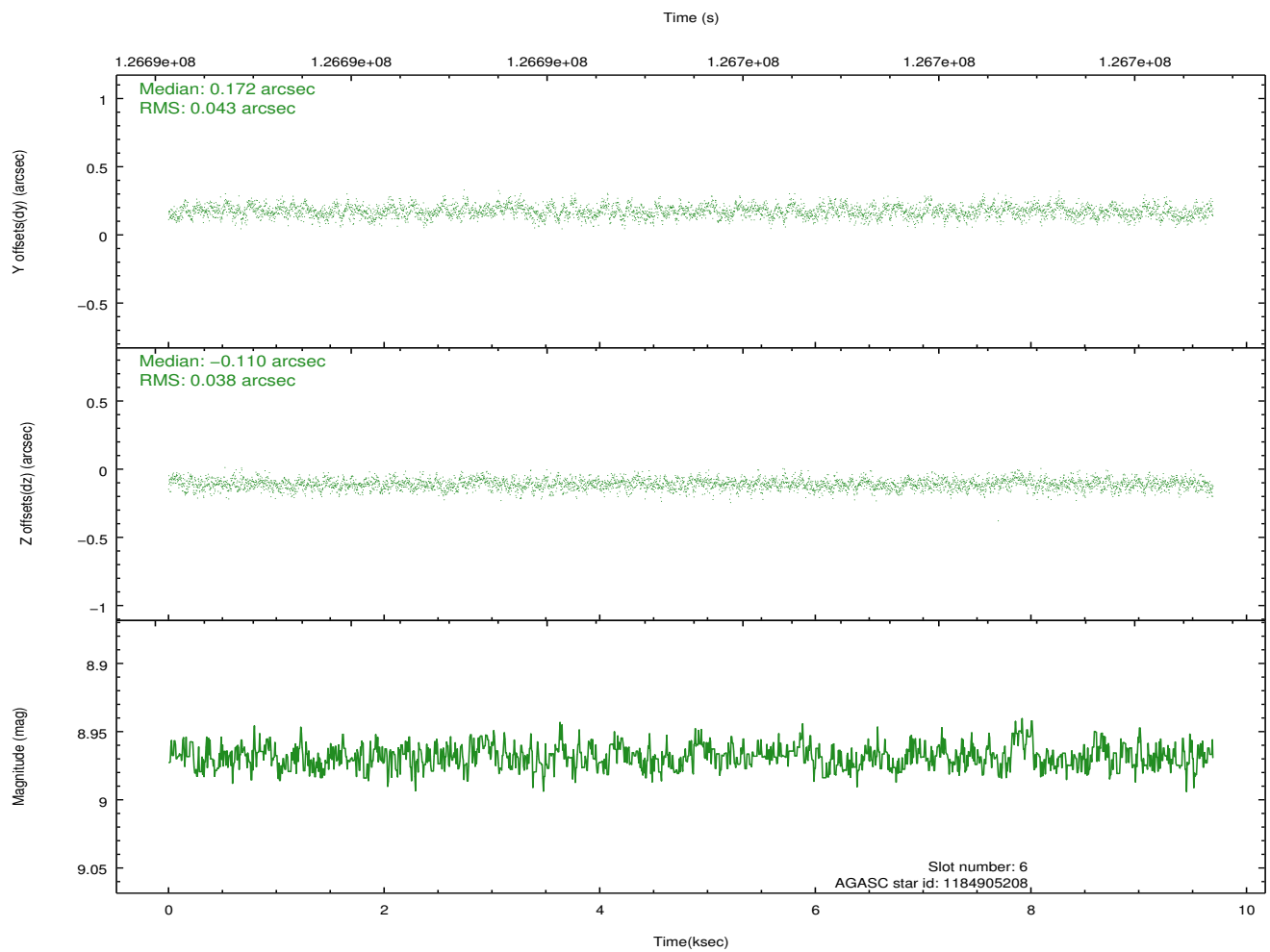
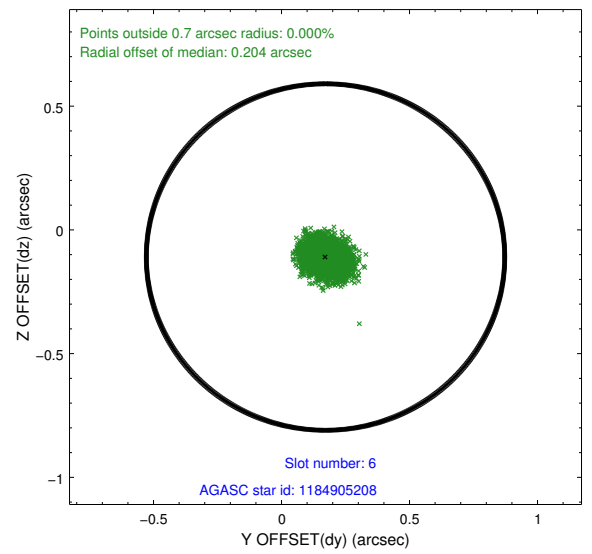
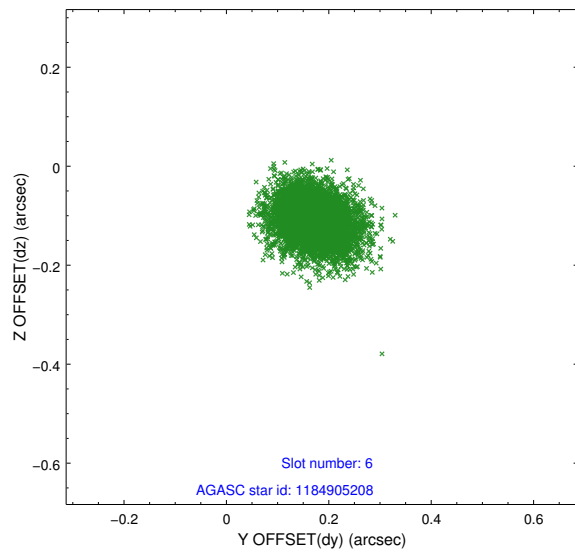
3.4.2 Slot 4



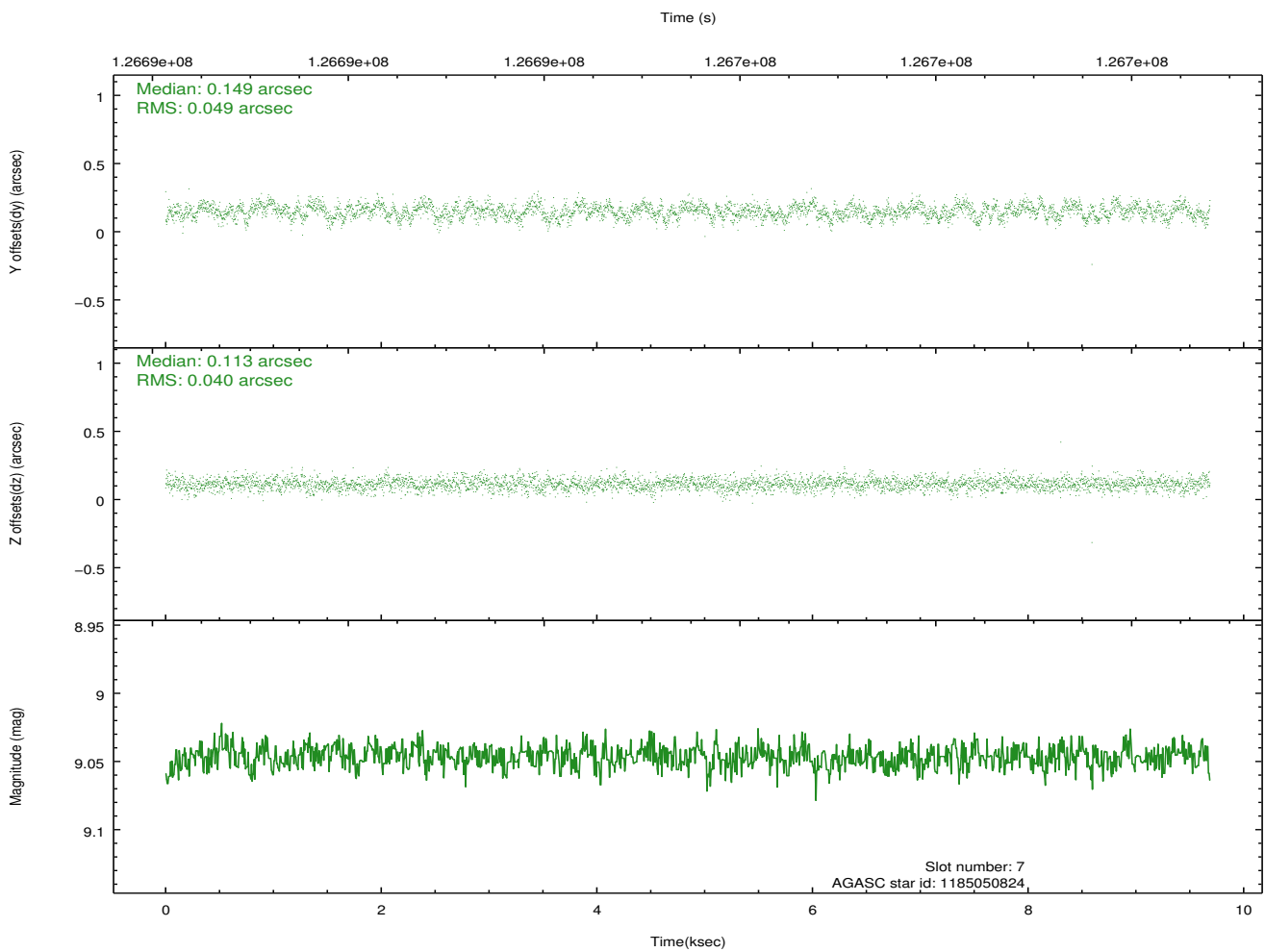
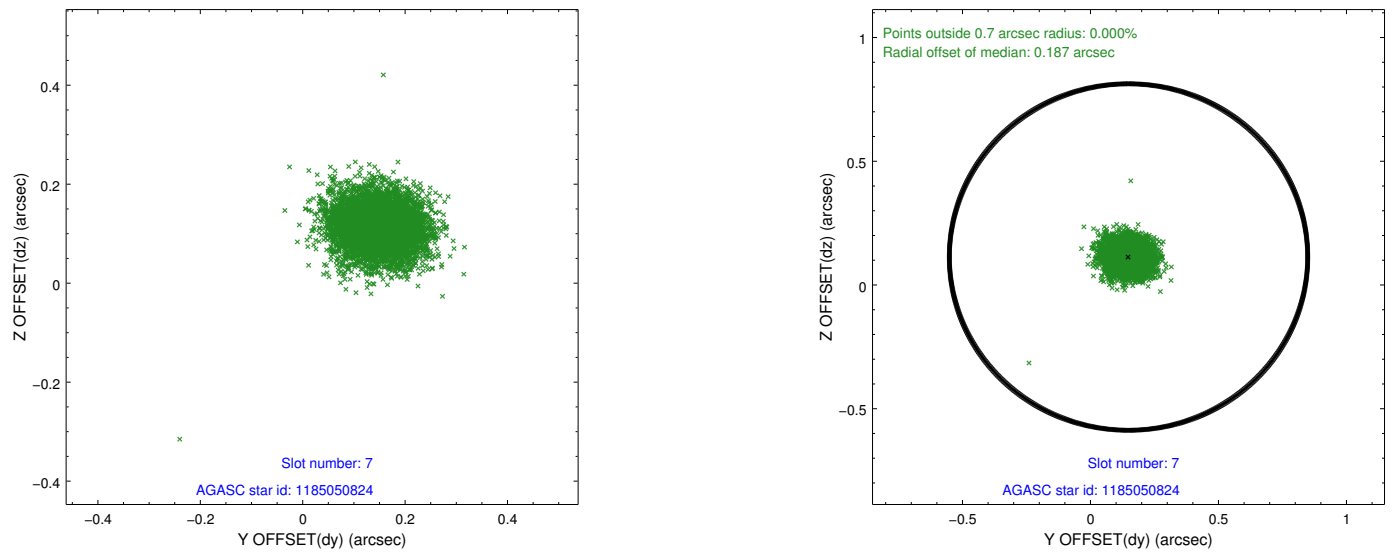
3.4.3 Slot 5



3.4.4 Slot 6

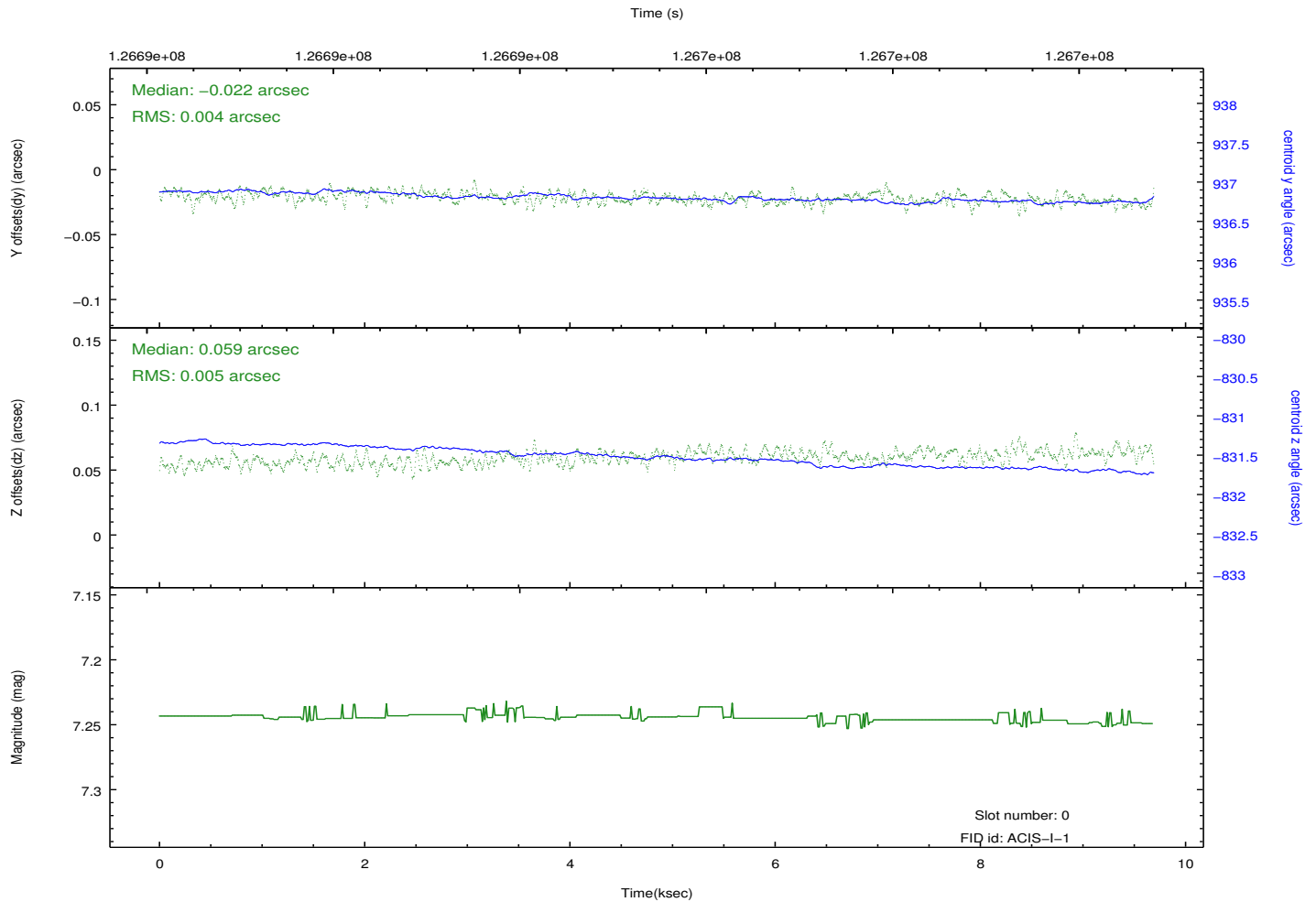
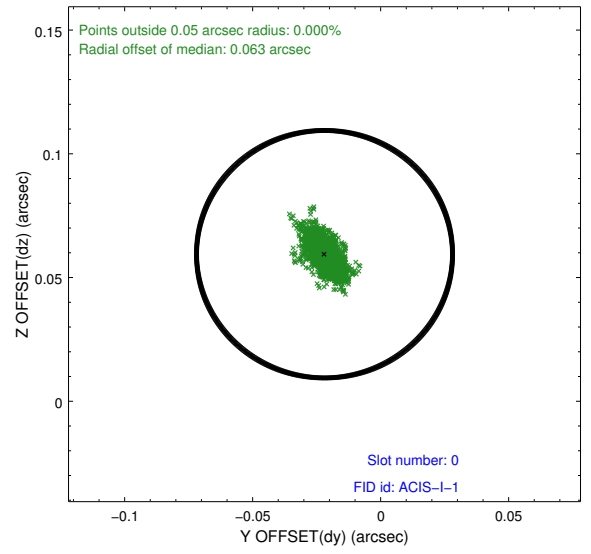
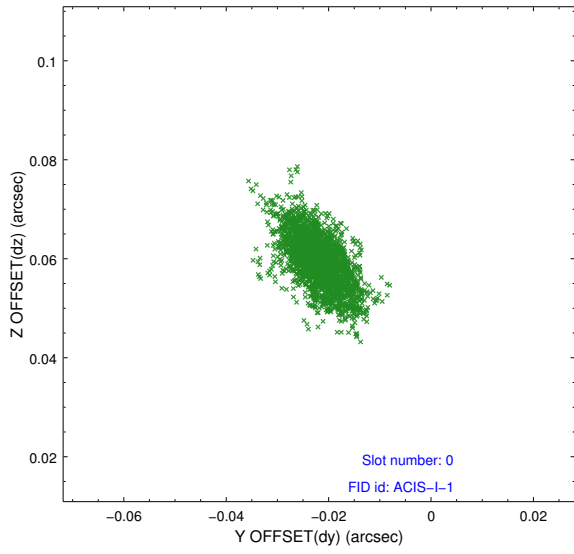


3.4.5 Slot 7

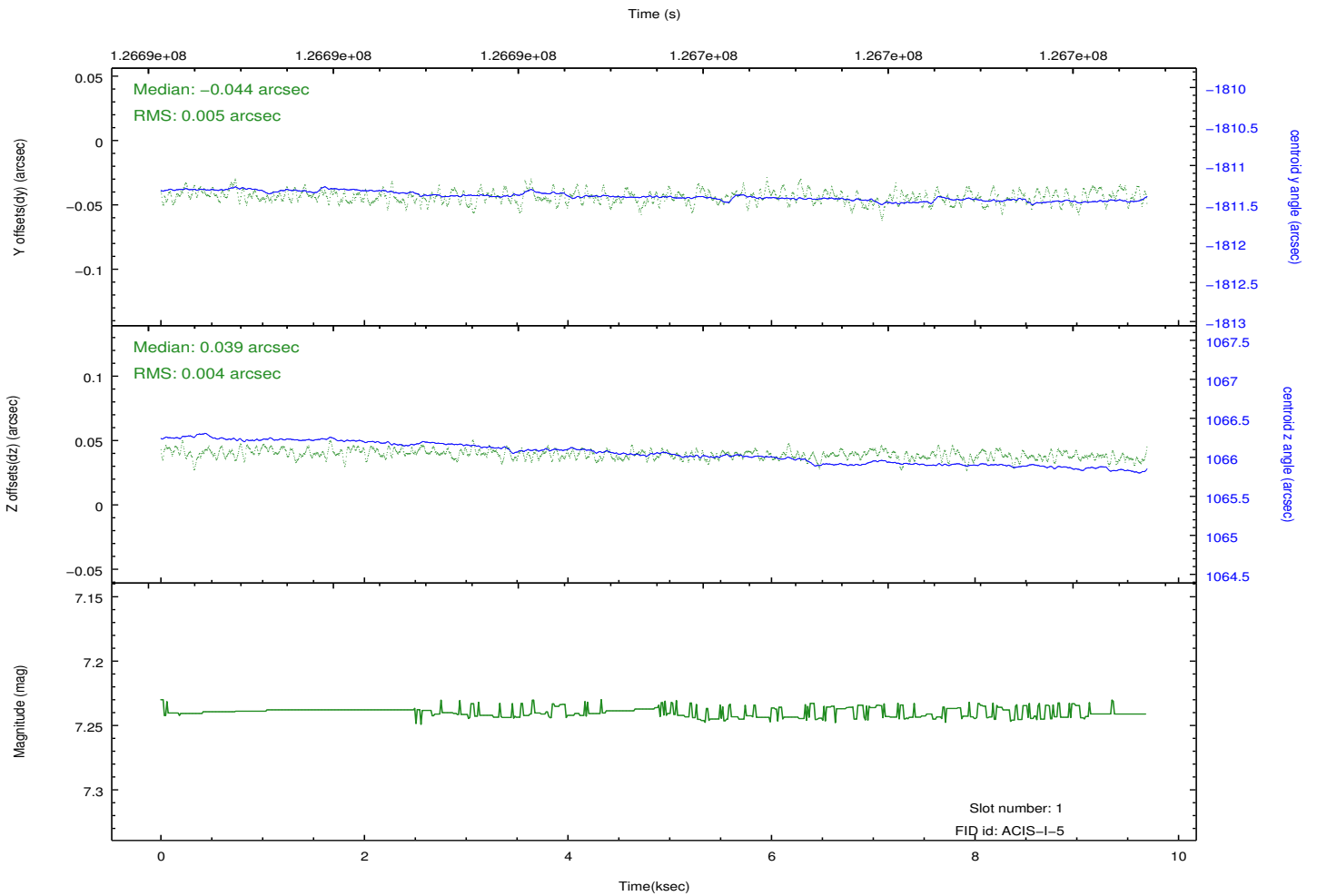
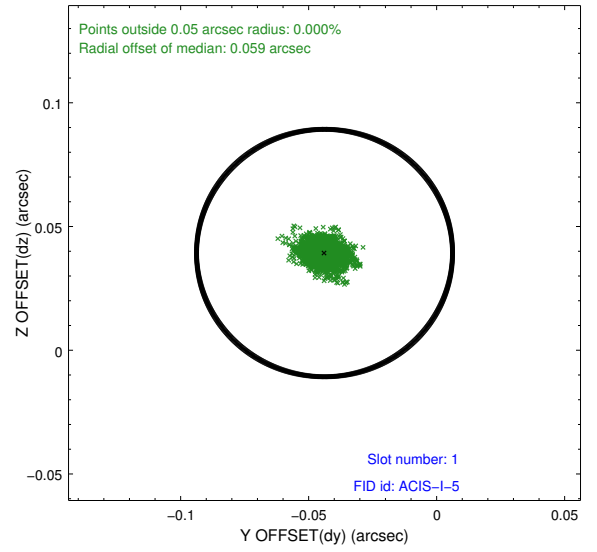
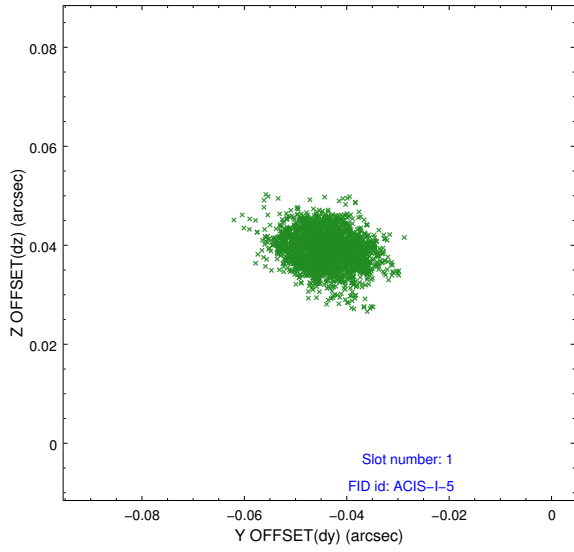


3.5 FID Slots

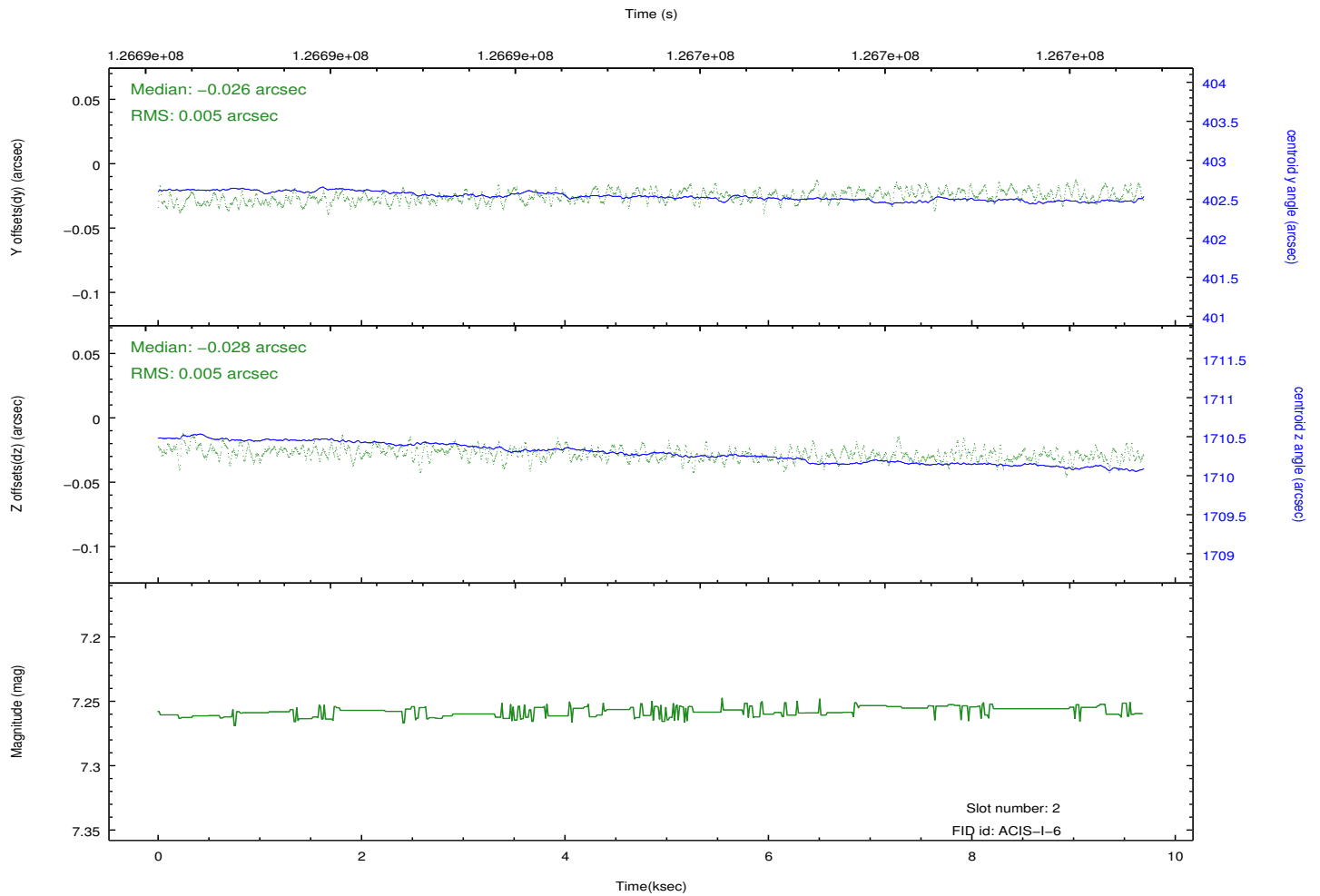
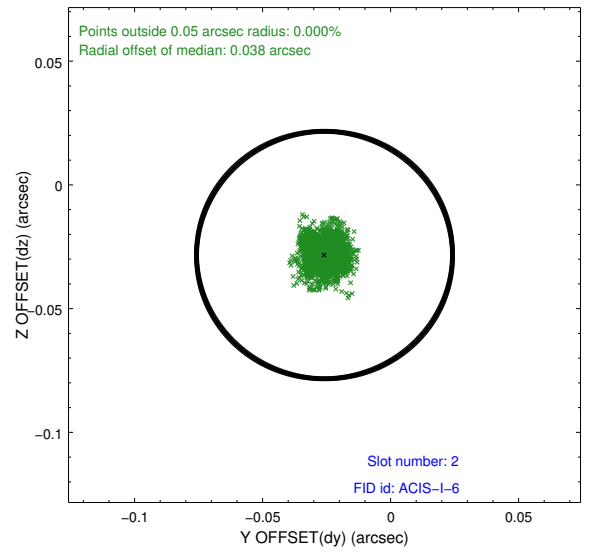
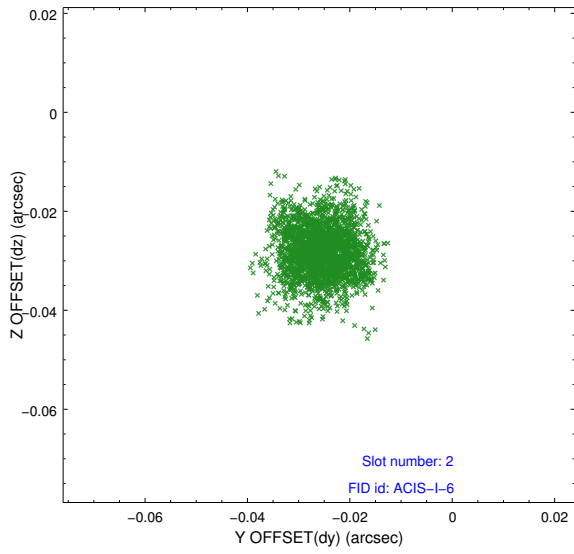
3.5.1 Slot 0



3.5.2 Slot 1



3.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.375

A.2 Comments

Obi=0 was interrupted by safing of the science instruments due to high solar radiation environment.

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The fid light in slot 2 was removed from the aspect solution for obi=0 due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.