

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4152 - L2 Version 5
Chandra X-Ray Center

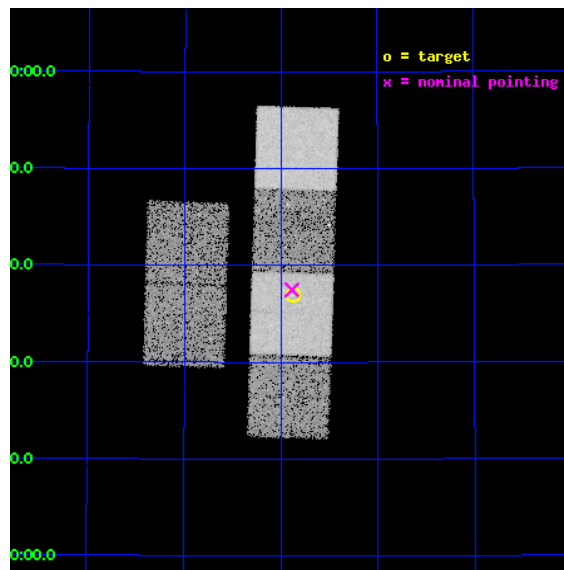
L2 Processing Date : Nov 30 2012

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1 Front

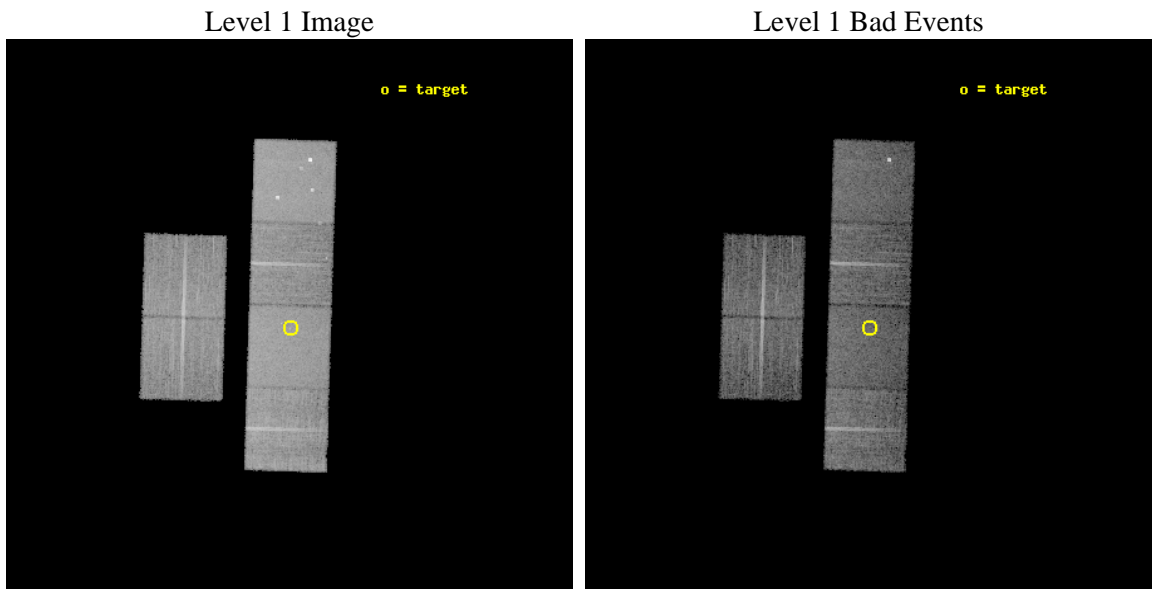
seq_num	700831	Sequence number
obs_id	4152	Observation id
title	X-RAY TRACE OF THE EARLY RISE OF THE QUASAR POPULATION	Proposal ti
observer	Dr. Takamitsu Miyaji	Principal investigator
object	PC 1000+4751	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.97	Observer's specified target RA [deg]
dec_targ	47.615083	Observer's specified target Dec [deg]
ra_nom	150.97206939063	Nominal RA [deg]
dec_nom	47.624651509025	Nominal Dec [deg]
roll_nom	91.708550536033	Nominal Roll [deg]
revision	5	Processing version of data
ontime	13858.965925962	Sum of GTIs [s]
livetime	13683.47535454	Livetime [s]
ontime2	13855.765975773	Sum of GTIs [s]
ontime3	13858.842805952	Sum of GTIs [s]
ontime5	13858.924885958	Sum of GTIs [s]
ontime6	13858.883845955	Sum of GTIs [s]
ontime7	13858.965925962	Sum of GTIs [s]
ontime8	13858.801765978	Sum of GTIs [s]
l2events	131730	Number of level 2 events



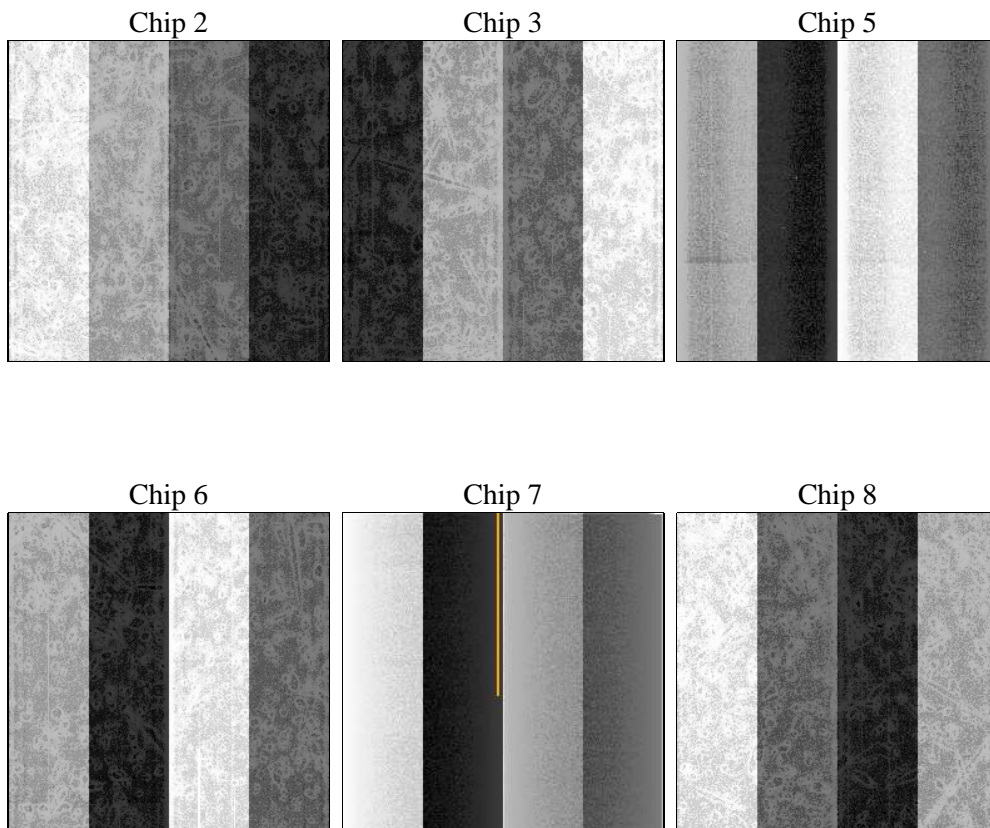
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13896.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13858.965925962	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	13855.765975773	Sum of GTIs [s]
date	2012-11-30T20:17:23	Date and time of file creation	ontime3	13858.842805952	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	13858.924885958	Sum of GTIs [s]
			ontime6	13858.883845955	Sum of GTIs [s]
			ontime7	13858.965925962	Sum of GTIs [s]
			ontime8	13858.801765978	Sum of GTIs [s]
			l1events	590504	Number of level 1 events

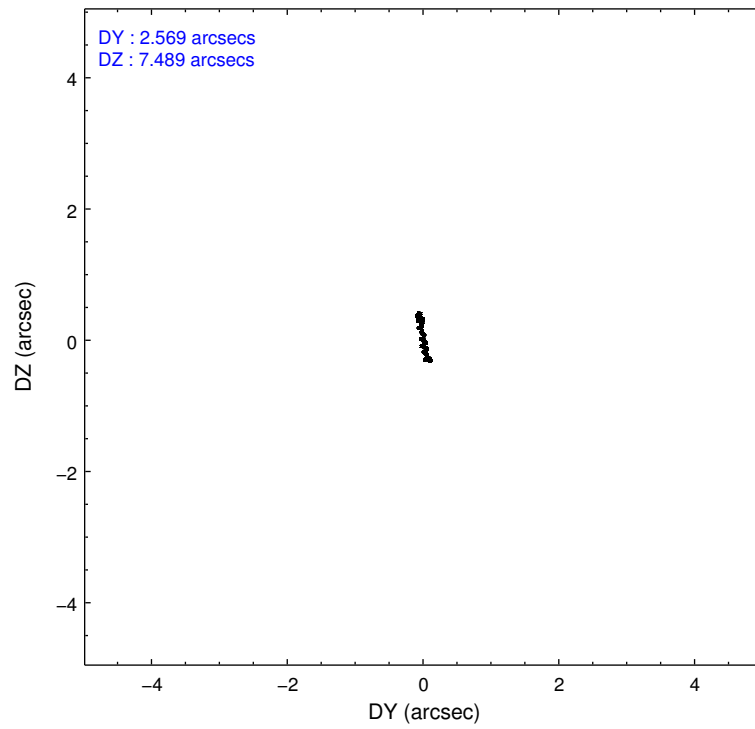
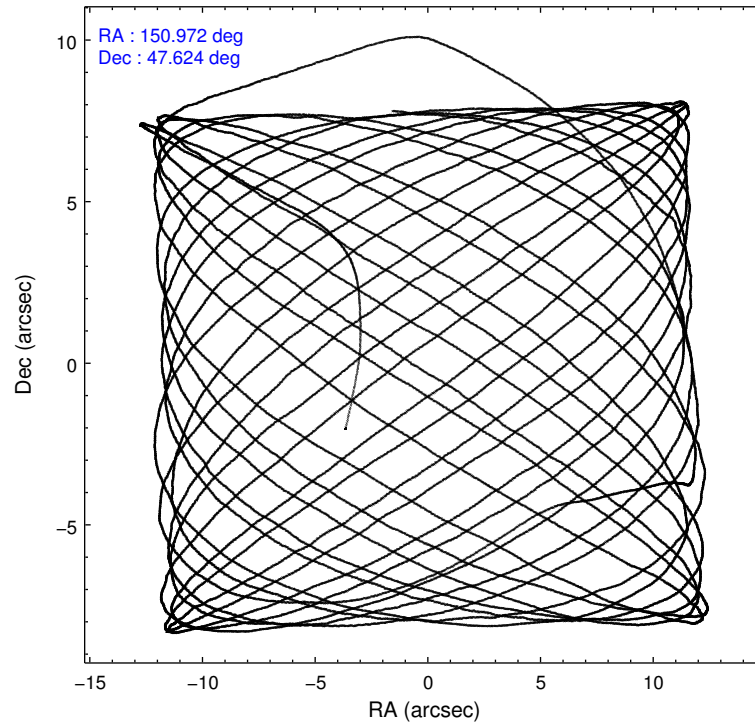
2.1.4 Events

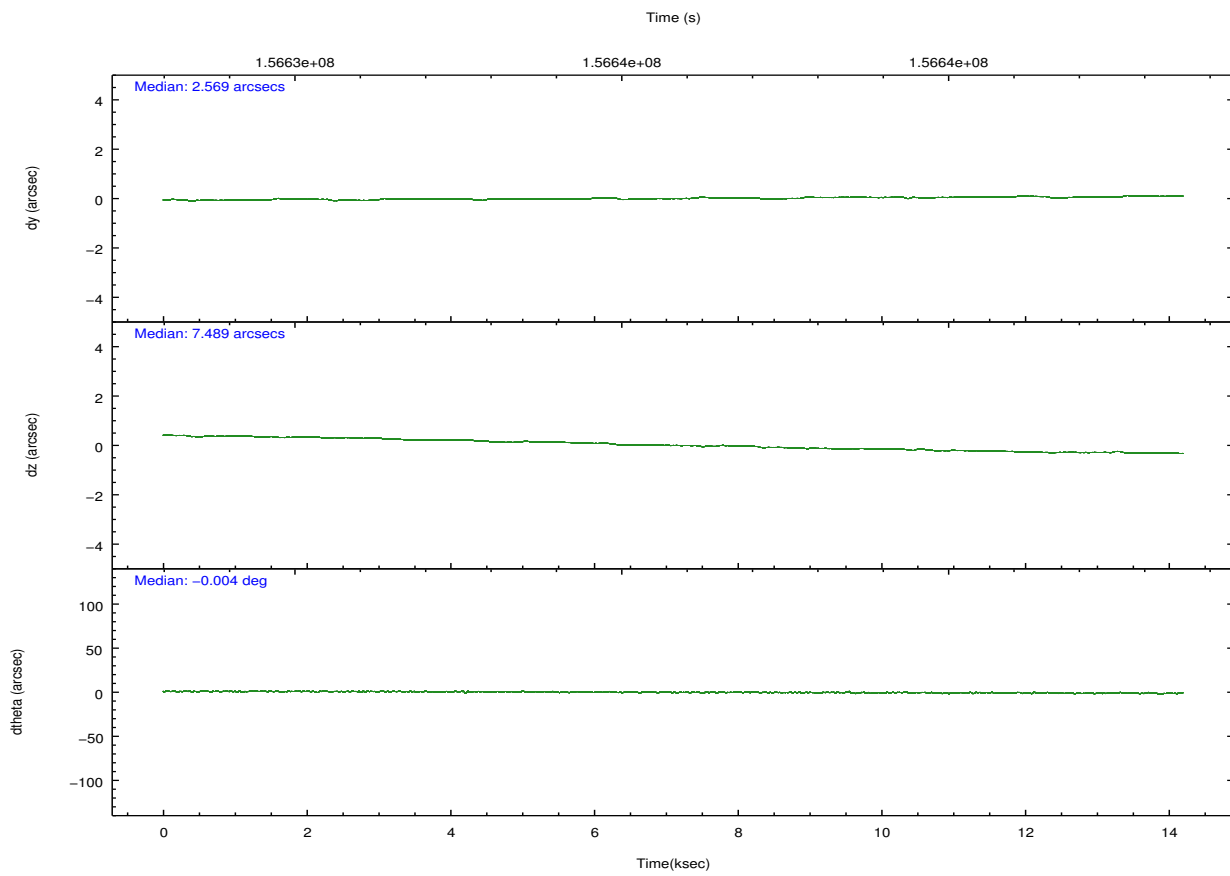
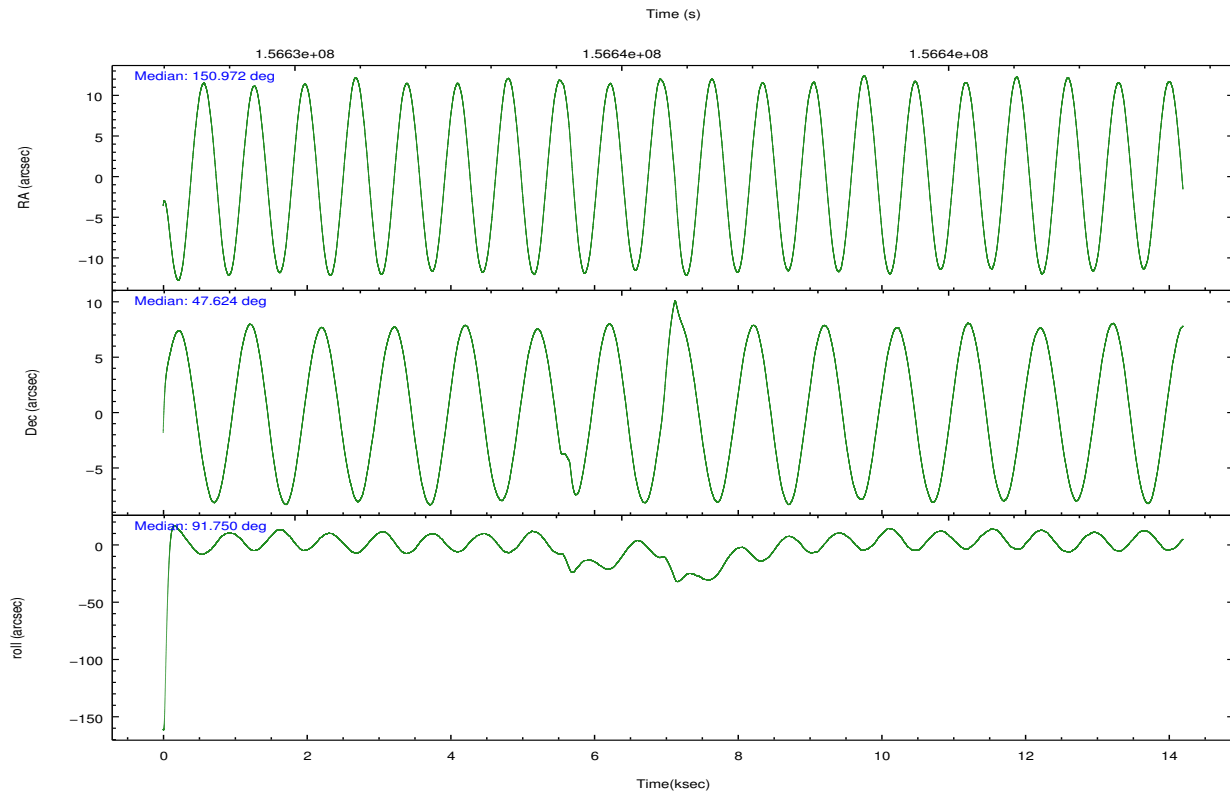
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	84567	81491	127496	80930	110231	105789	grade 0 events	4259	4098	7650	4276	4285	6838
rejected events	74922	72218	68573	70602	64848	83971		5%	5%	6%	5%	3%	6%
rejected %	88%	88%	53%	87%	58%	79%	grade 1 events	51	42	299	32	93	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	1922	1715	17654	2016	8673	4773
								2%	2%	13%	2%	7%	4%
							grade 3 events	982	933	2221	964	4103	2309
								1%	1%	1%	1%	3%	2%
							grade 4 events	922	940	2119	1051	4001	2106
								1%	1%	1%	1%	3%	1%
							grade 5 events	3204	3545	9306	3801	10550	4849
								3%	4%	7%	4%	9%	4%
							grade 6 events	1567	1590	29300	2026	24336	5796
								1%	1%	22%	2%	22%	5%
							grade 7 events	71660	68628	58947	66764	54190	79058
								84%	84%	46%	82%	49%	74%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	150.993781	150.9720693906289	Subarray requested	NONE	NONE
[deg] Pointing Dec	47.601682	47.62465150902516	Alternating exposures requested	N	N
[deg] Pointing Roll	91.536058	91.7085505360325	[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)	156628982.184000	156627951.55722			
Observation start date	2002-12-18T20:01:58	2002-12-18T19:45:51			
[s] Observation end time (MET)	156642878.184000	156643489.02037			
Observation end date	2002-12-18T23:53:34	2002-12-19T00:04:49			
Read mode	TIMED	TIMED			

2.3 Aspect



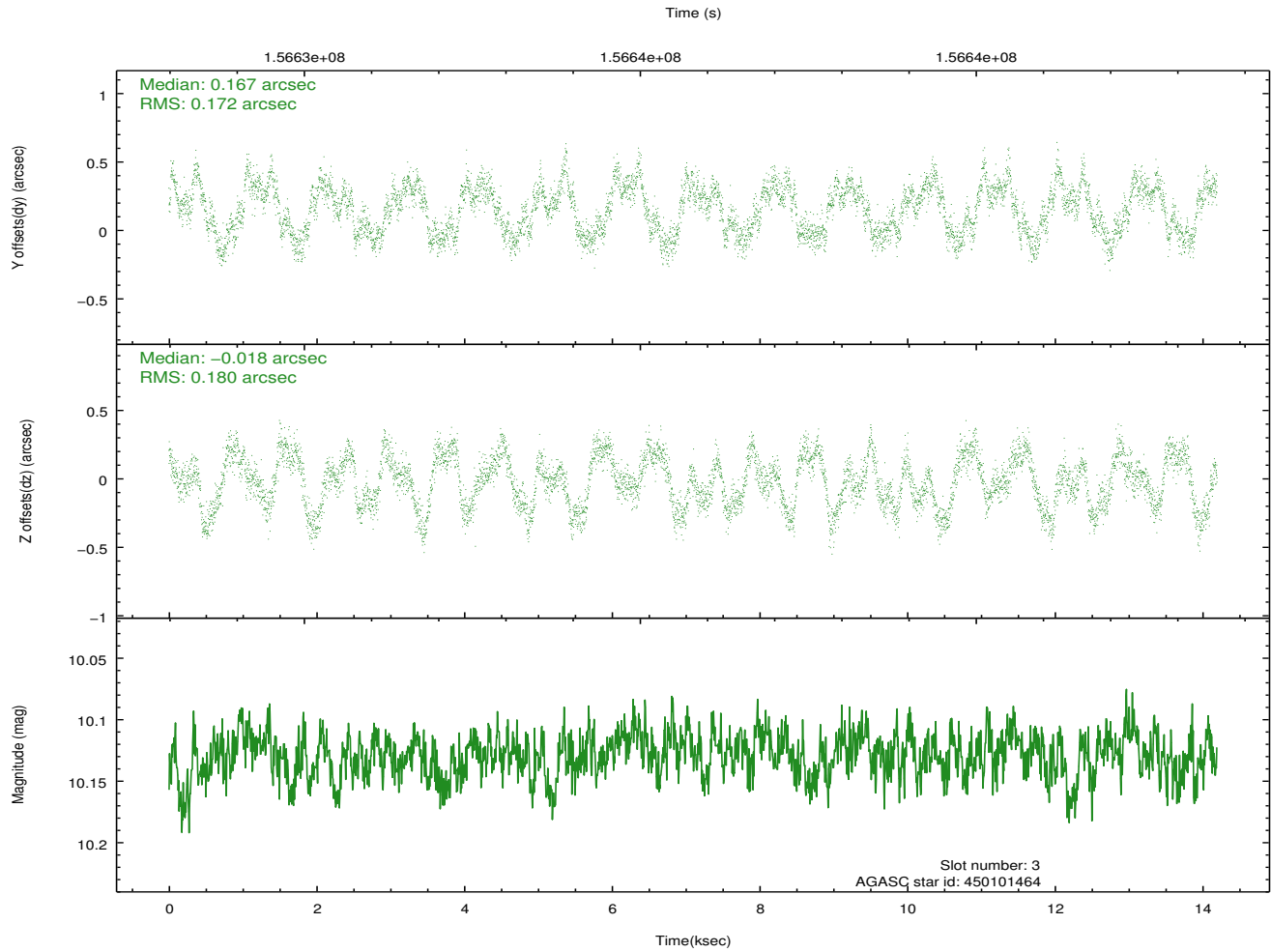
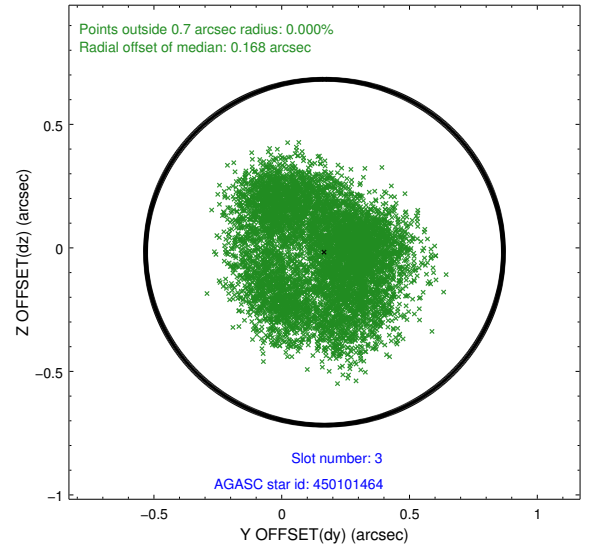
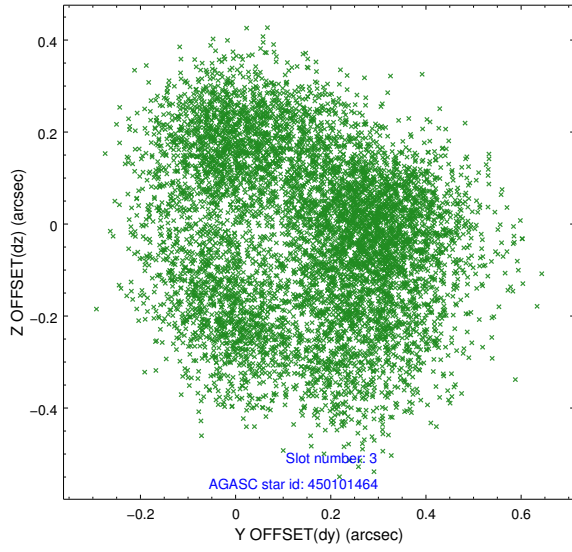


Slot Statistics

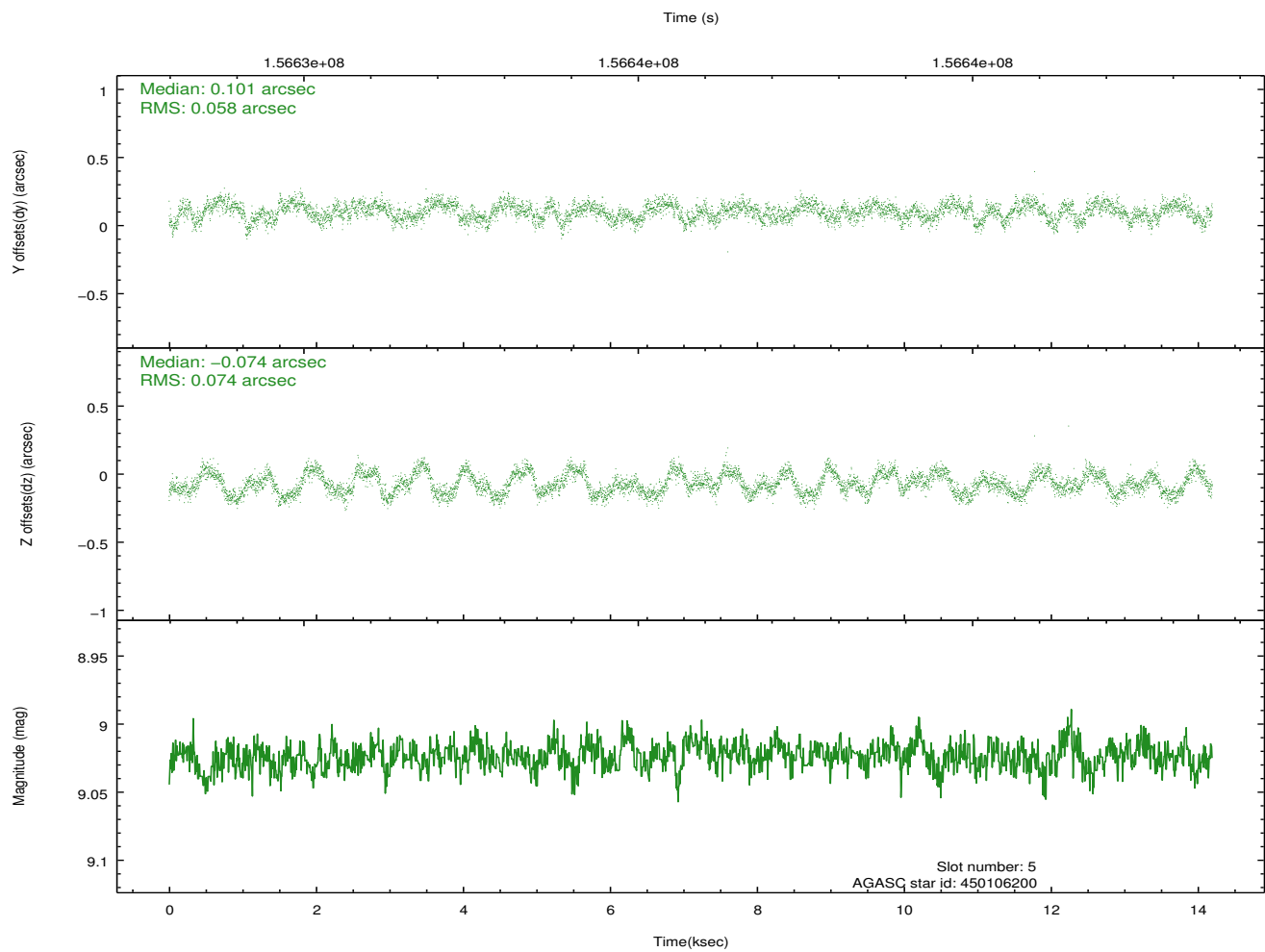
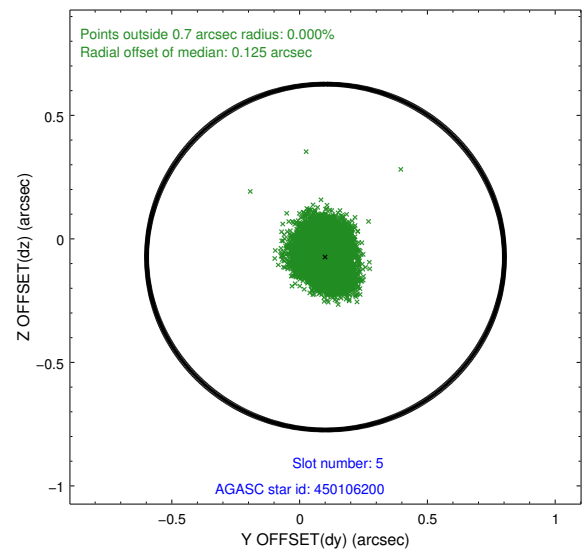
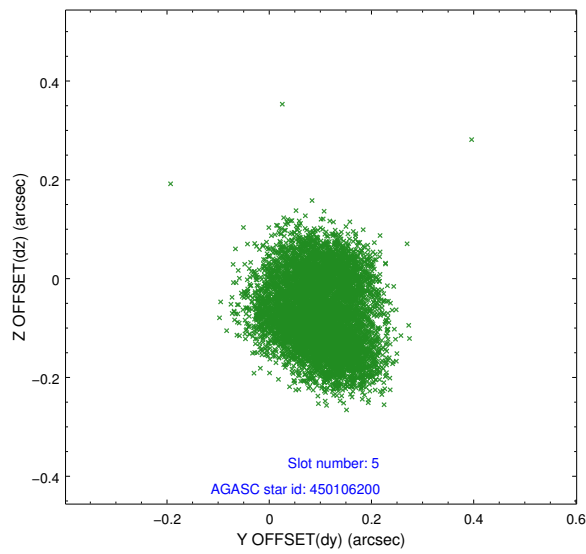
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3463	-0.018	-0.004	0.007	0.012	0.000000	0.000000	-755.23	-1728.69
1	FID	ACIS-S-4	7.20	3463	-0.015	0.010	0.006	0.011	0.000000	0.000000	2157.91	179.46
2	FID	ACIS-S-5	7.24	3463	0.002	0.003	0.007	0.012	0.000000	0.000000	-1807.62	173.51
3	GUIDE	450101464	10.13	6925	0.167	-0.018	0.277	0.390	150.713038	47.457794	-494.49	696.54
4	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	450106200	9.02	6925	0.101	-0.074	0.103	0.152	150.850470	47.128271	-1690.55	396.88
6	GUIDE	450494800	8.86	6925	-0.138	-0.097	0.125	0.182	150.150911	48.256188	2424.85	1953.47
7	GUIDE	450504368	9.84	6918	-0.108	0.193	0.138	0.215	151.985211	47.947700	1198.17	-2424.99

2.4 Star Slots

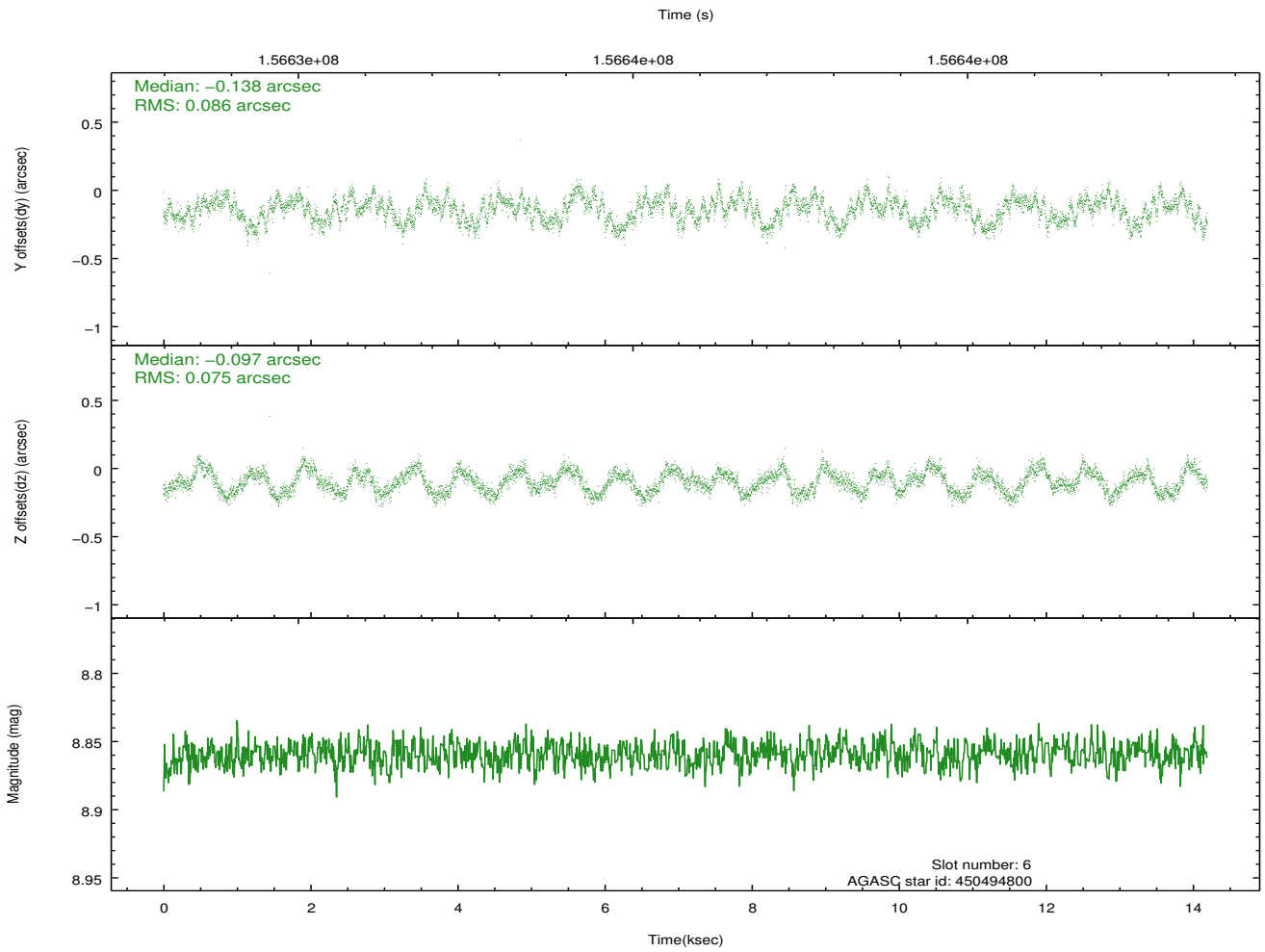
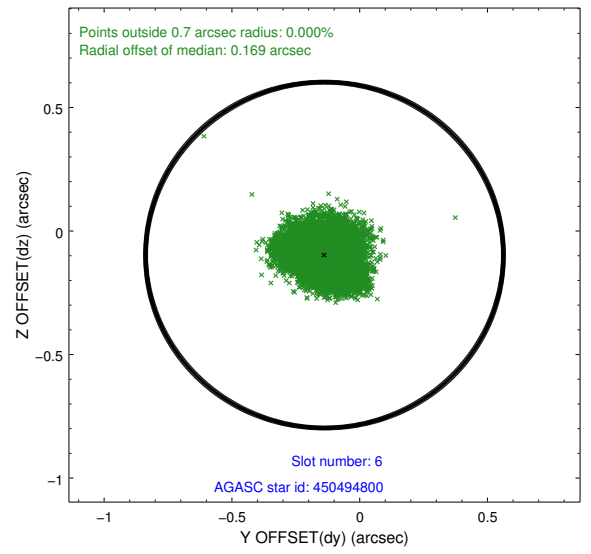
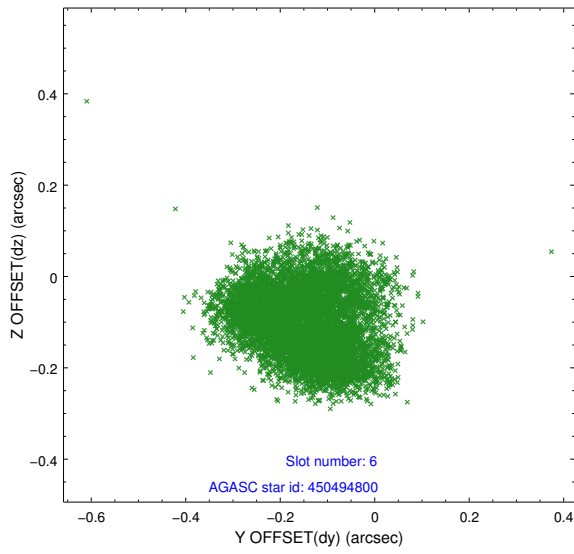
2.4.1 Slot 3



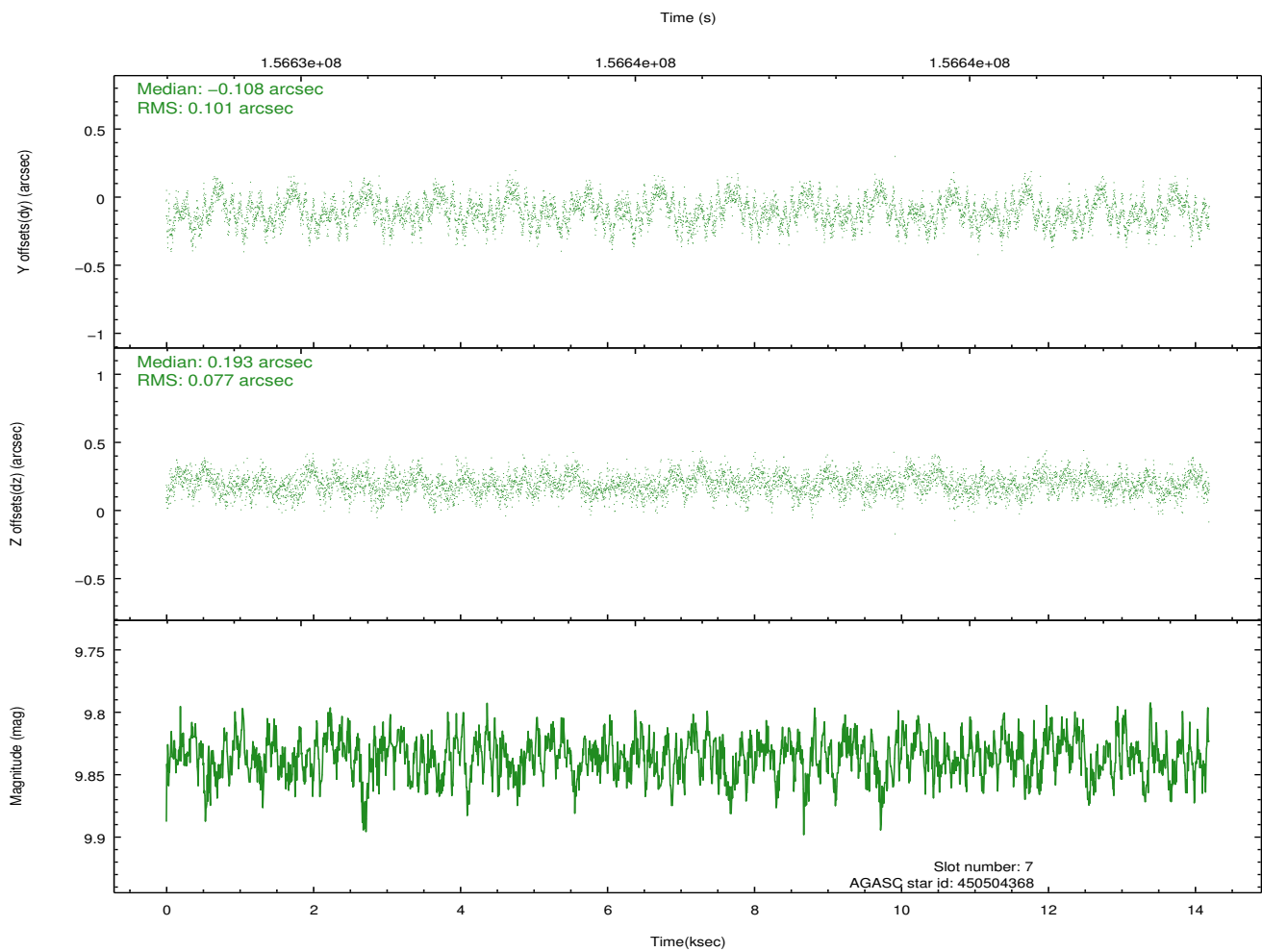
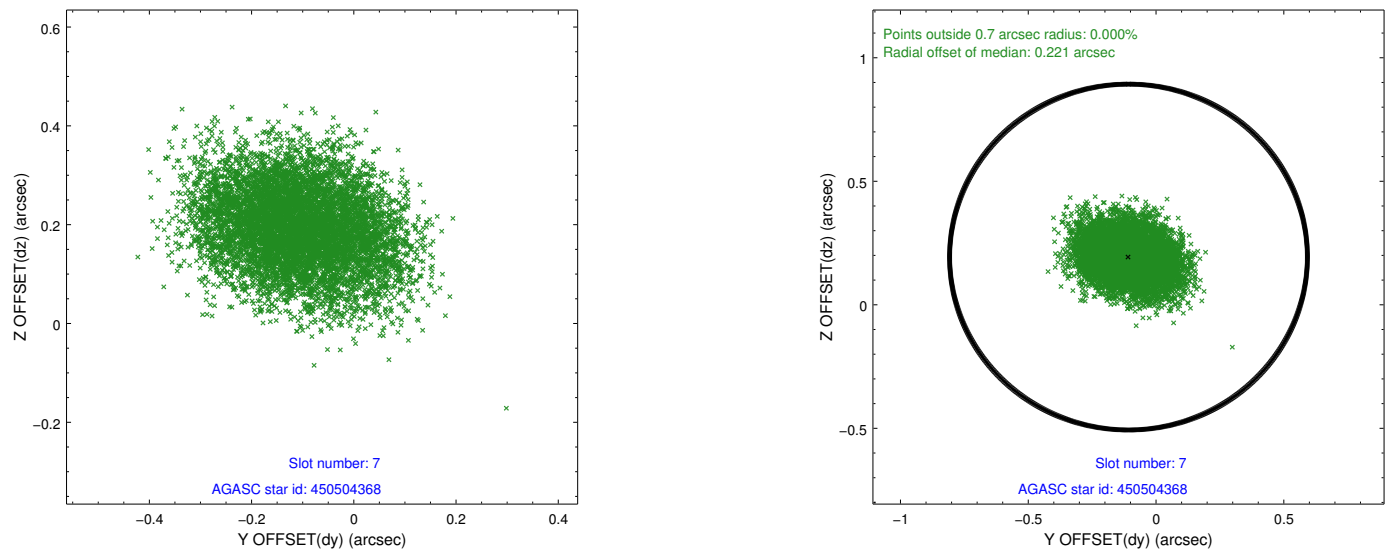
2.4.2 Slot 5



2.4.3 Slot 6

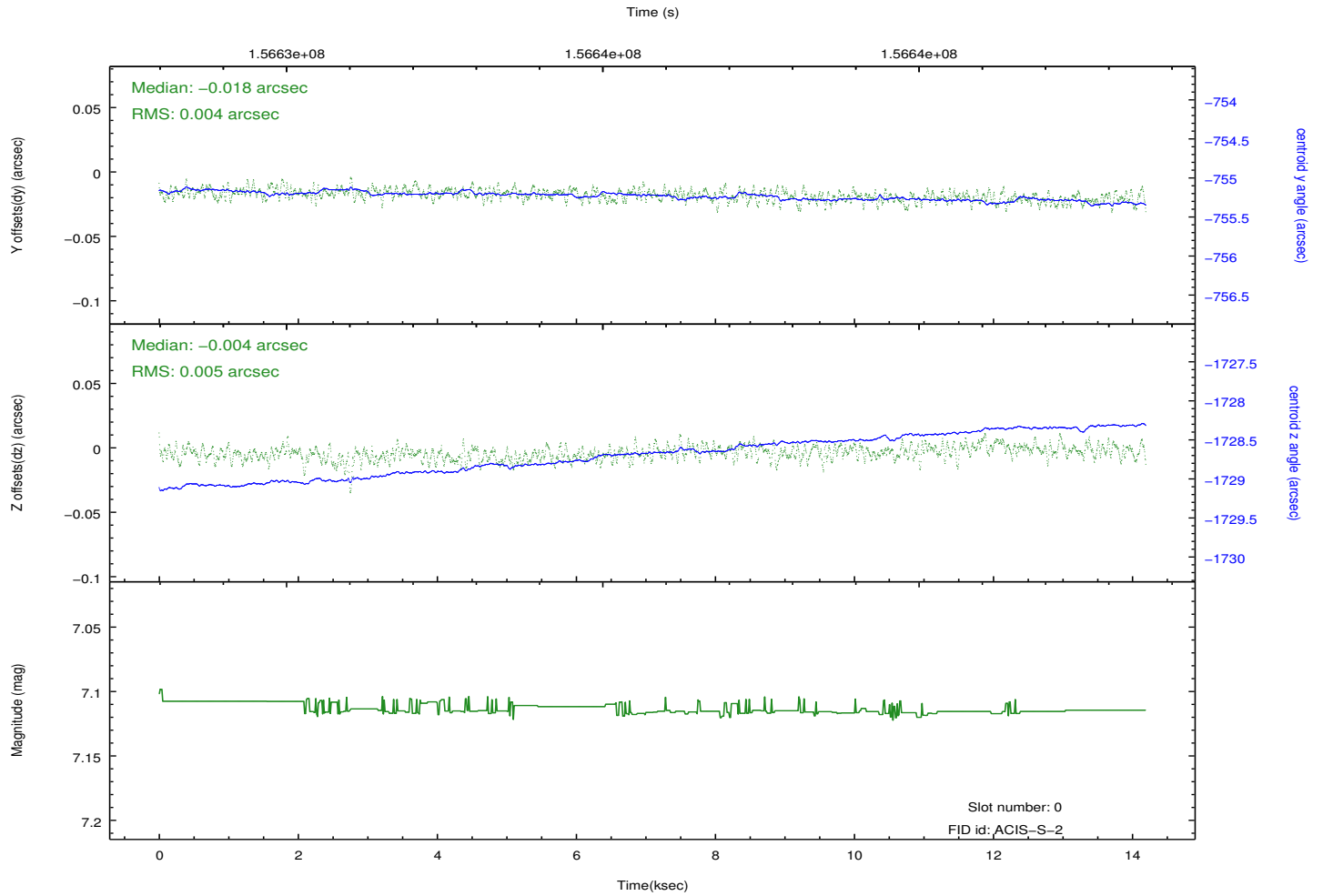
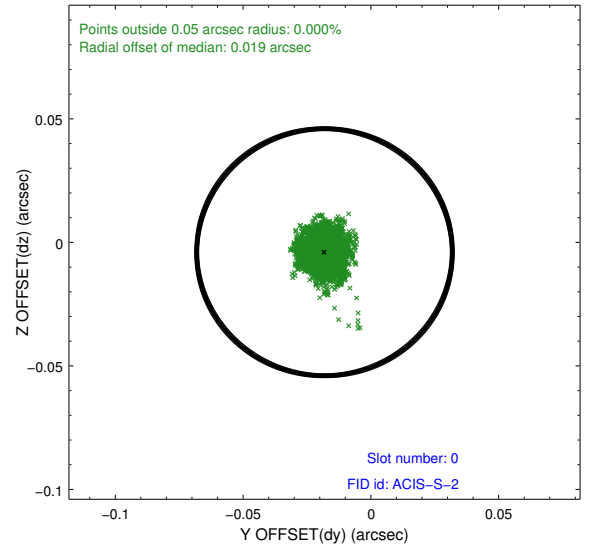
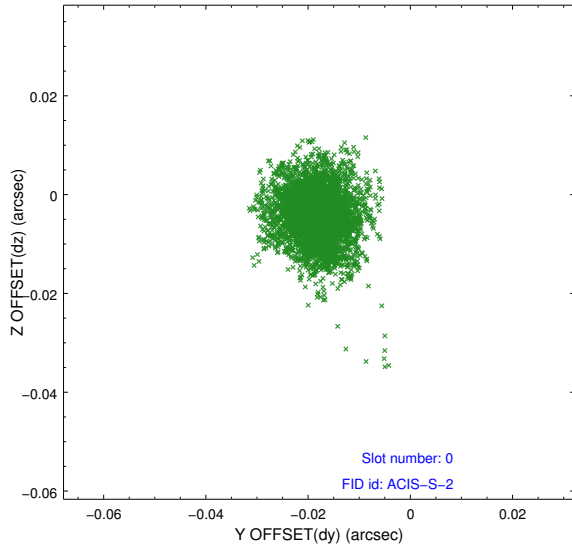


2.4.4 Slot 7

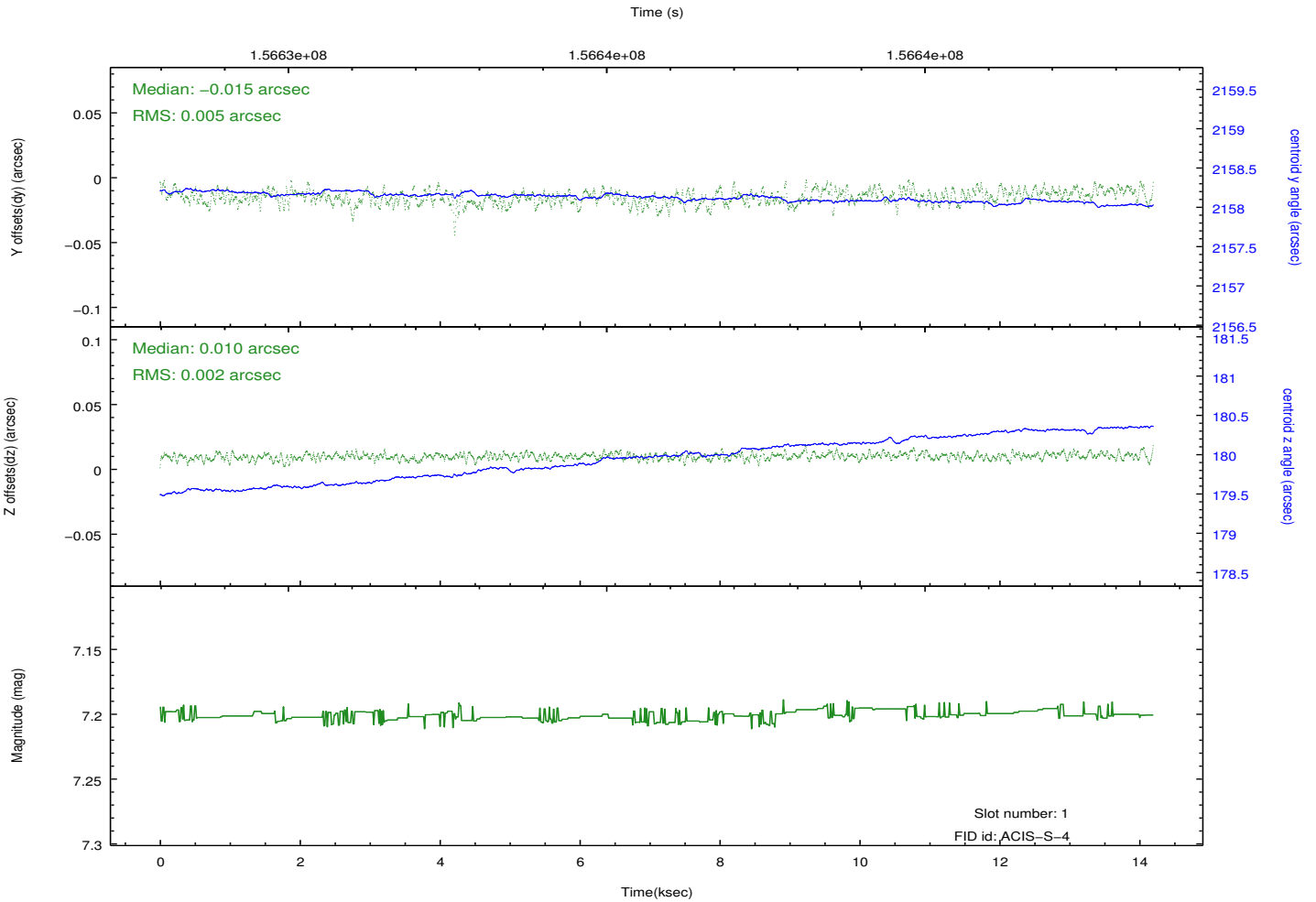
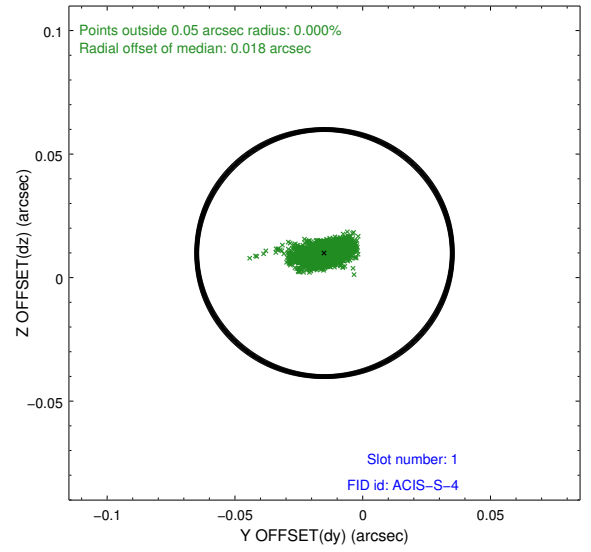
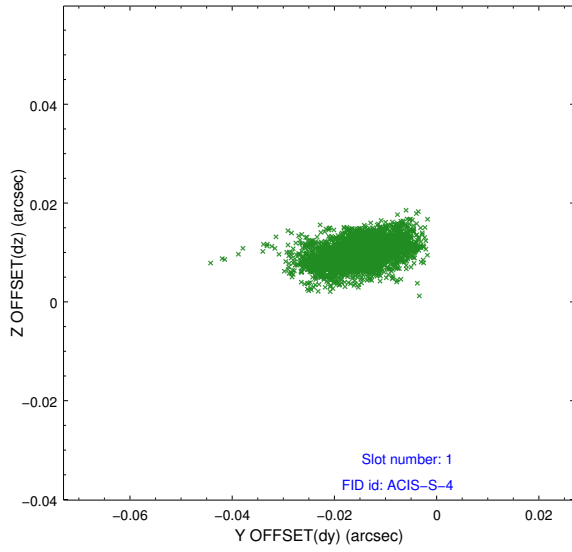


2.5 FID Slots

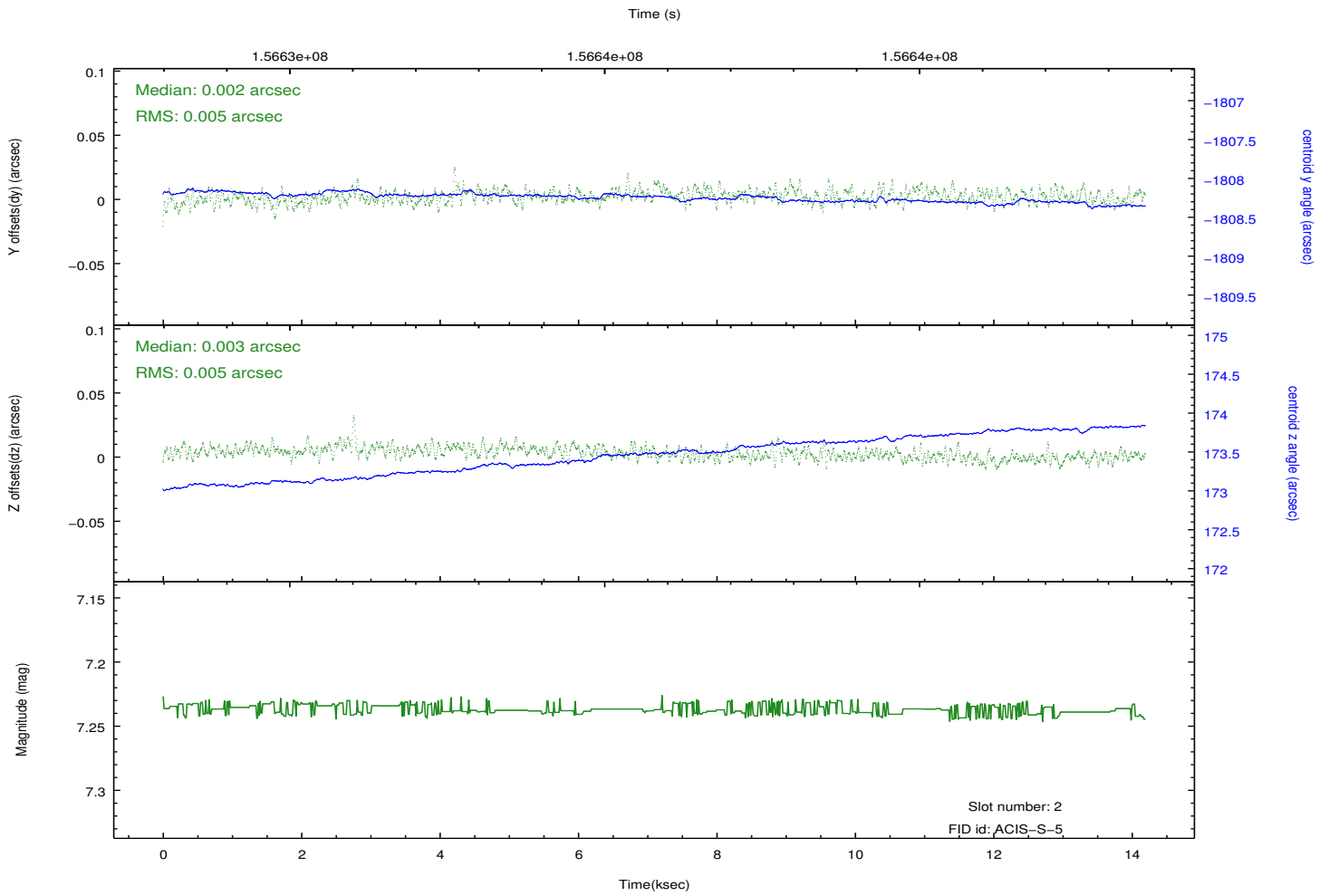
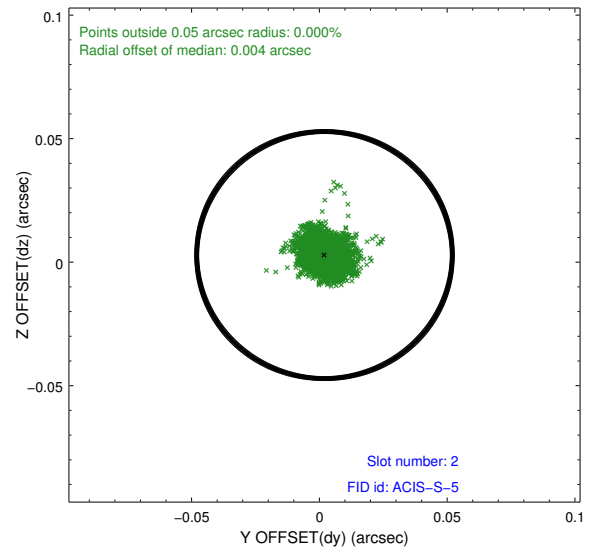
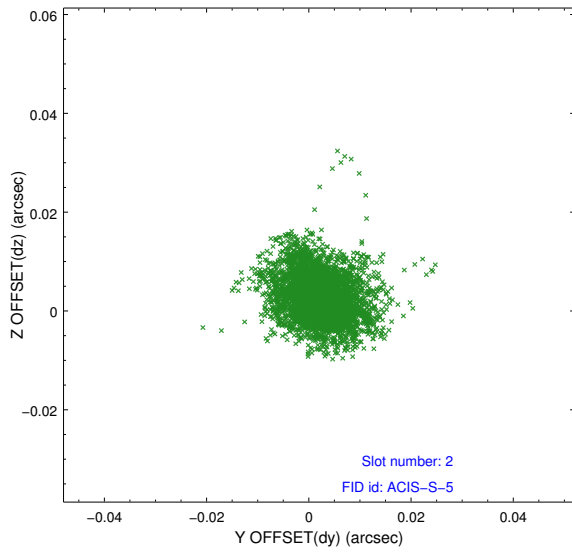
2.5.1 Slot 0



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)	2012.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.859

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.