

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6808 - L2 Version 2
Chandra X-Ray Center

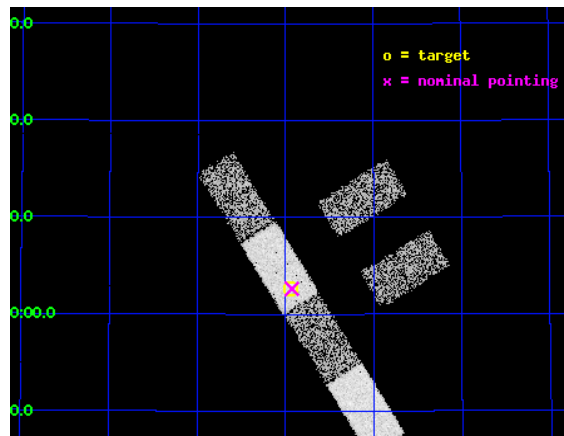
L2 Processing Date : Apr 5 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

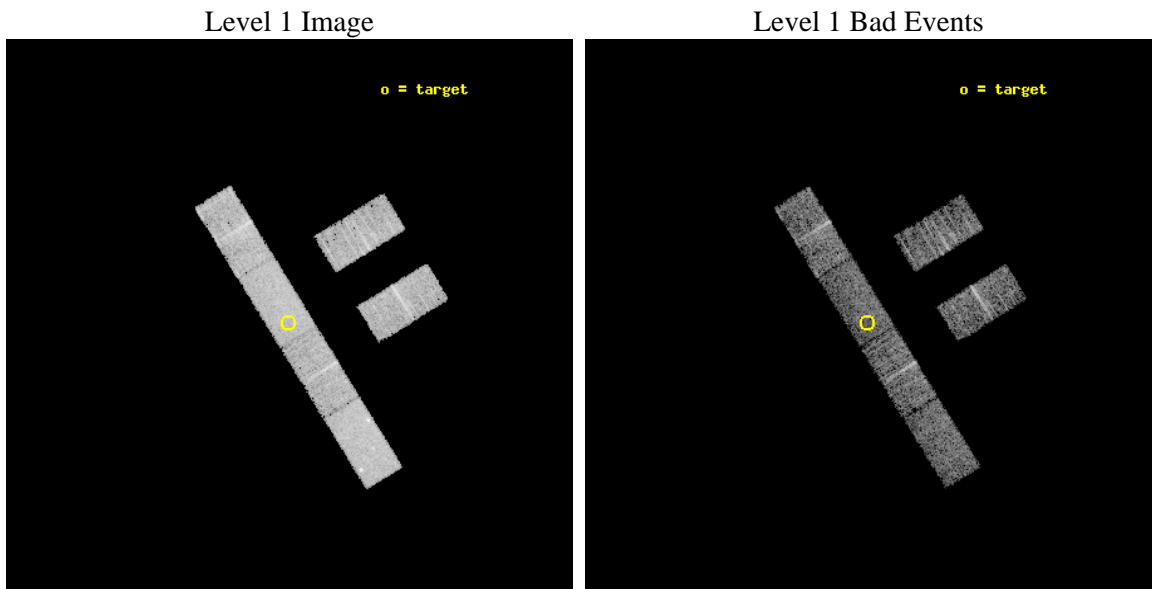
seq_num	701226	Sequence number
obs_id	6808	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1521+5202	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.485417	Observer's specified target RA [deg]
dec_targ	52.044	Observer's specified target Dec [deg]
ra_nom	230.48200829722	Nominal RA [deg]
dec_nom	52.043742421519	Nominal Dec [deg]
roll_nom	238.28431648514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4147.2000274062	Sum of GTIs [s]
livetime	4054.7516888993	Livetime [s]
ontime2	4147.2000274062	Sum of GTIs [s]
ontime3	4145.3590073586	Sum of GTIs [s]
ontime5	4147.2000274062	Sum of GTIs [s]
ontime6	4147.2000274062	Sum of GTIs [s]
ontime7	4147.2000274062	Sum of GTIs [s]
ontime8	4147.2000274062	Sum of GTIs [s]
l2events	31019	Number of level 2 events



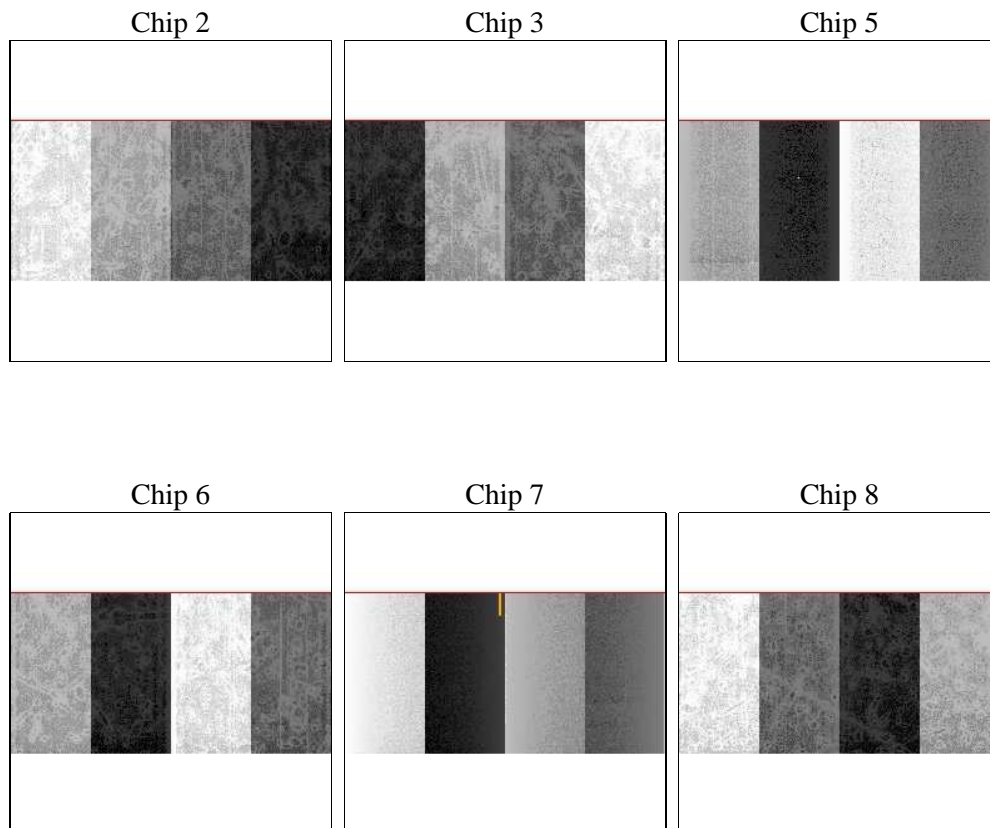
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3970.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4147.2000274062	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	4147.2000274062	Sum of GTIs [s]
date	2012-04-05T11:03:13	Date and time of file creation	ontime3	4145.3590073586	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4147.2000274062	Sum of GTIs [s]
			ontime6	4147.2000274062	Sum of GTIs [s]
			ontime7	4147.2000274062	Sum of GTIs [s]
			ontime8	4147.2000274062	Sum of GTIs [s]
			l1events	149595	Number of level 1 events

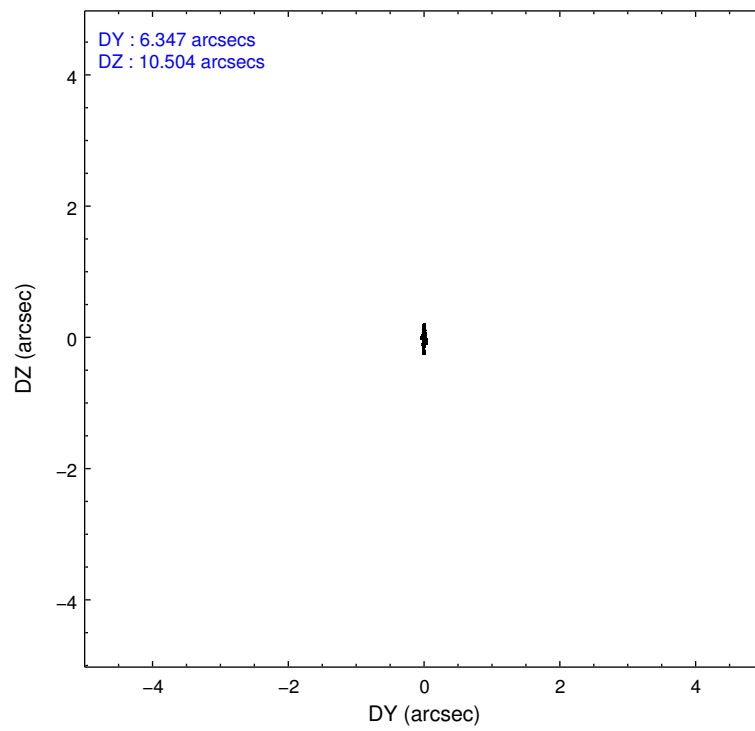
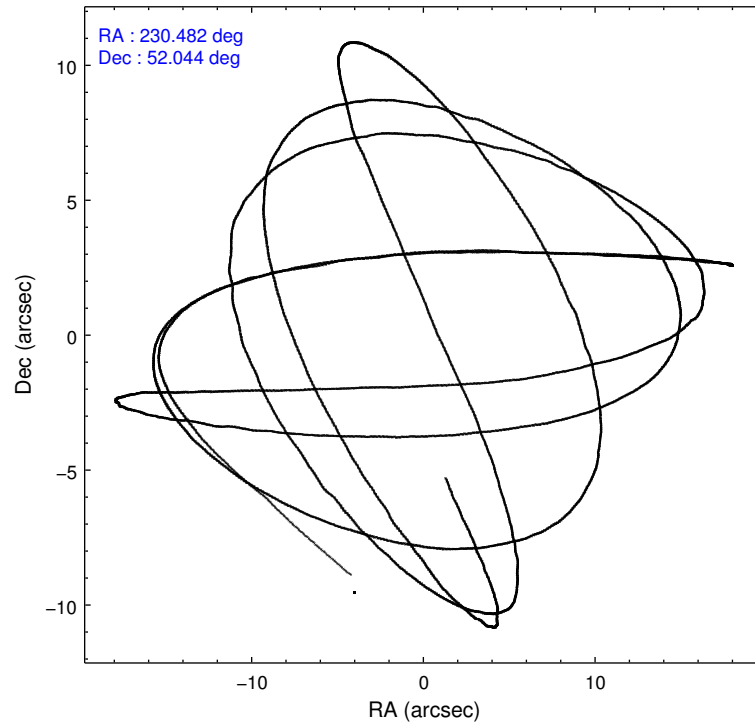
2.1.4 Events

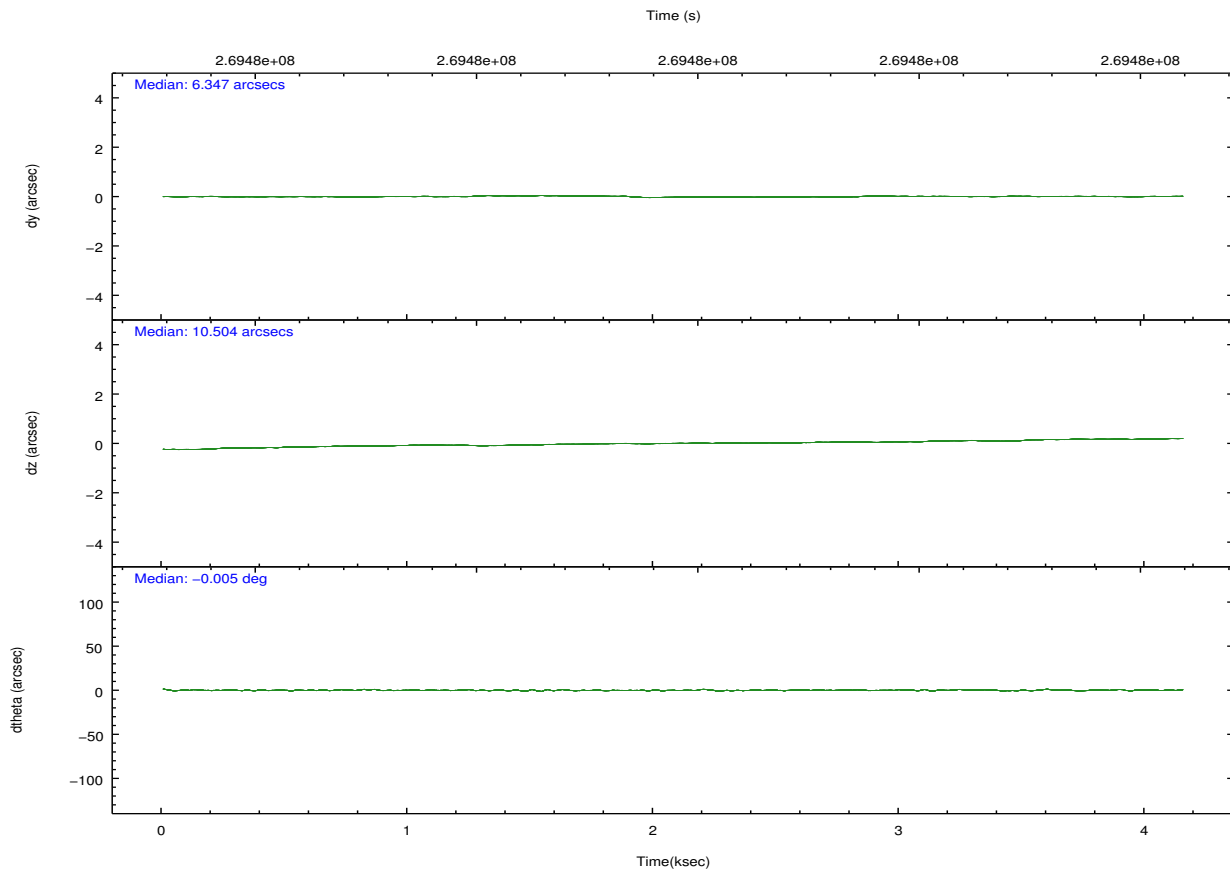
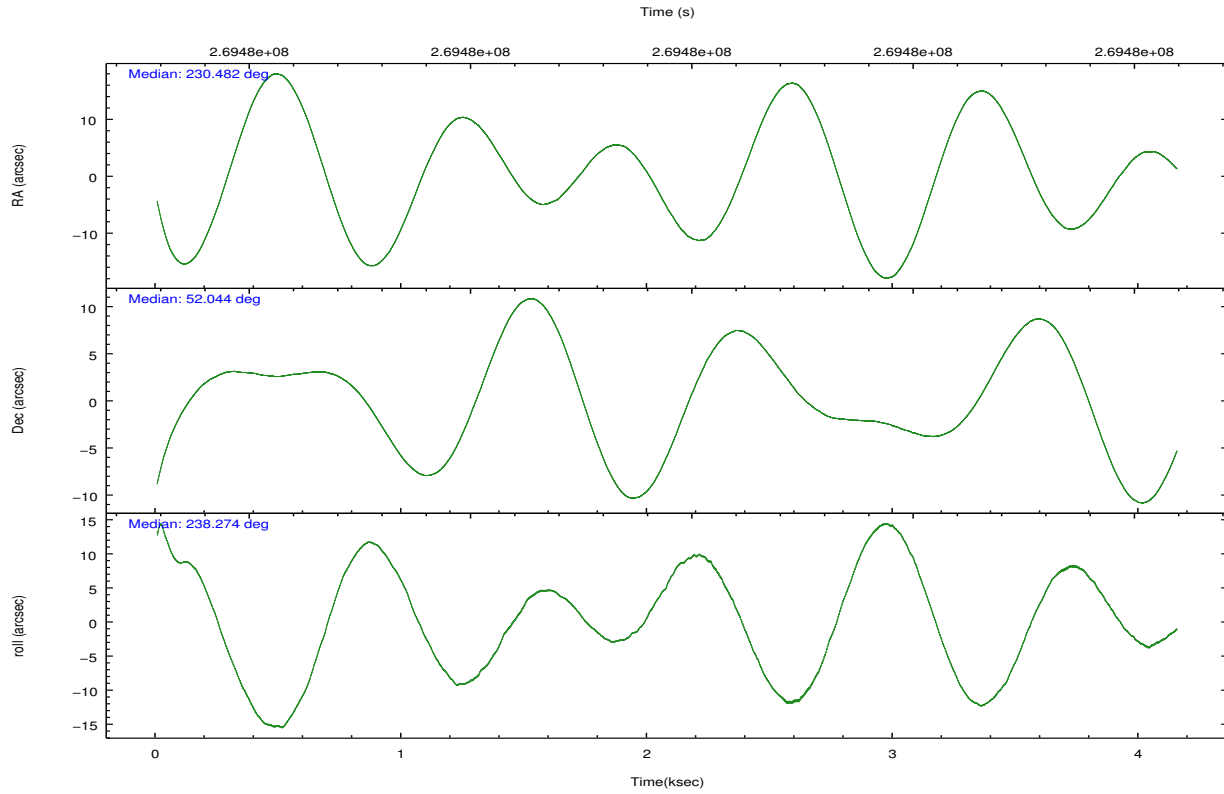
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22003	21142	30883	21676	27476	26415	grade 0 events	1106	988	2016	911	1101	1687
rejected events	19638	18954	17318	19361	16516	20926		5%	4%	6%	4%	4%	6%
rejected %	89%	89%	56%	89%	60%	79%	grade 1 events	9	12	55	11	27	15
								0%	0%	0%	0%	0%	0%
							grade 2 events	463	420	4084	512	2324	1236
								2%	1%	13%	2%	8%	4%
							grade 3 events	289	256	640	275	1088	636
								1%	1%	2%	1%	3%	2%
							grade 4 events	281	280	633	287	1136	600
								1%	1%	2%	1%	4%	2%
							grade 5 events	827	895	2170	934	2739	1158
								3%	4%	7%	4%	9%	4%
							grade 6 events	381	390	7219	492	6034	1667
								1%	1%	23%	2%	21%	6%
							grade 7 events	18647	17901	14066	18254	13027	19416
								84%	84%	45%	84%	47%	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	230.482768	230.4820082972157	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	52.071043	52.0437424215194	Subarray start row	257	257
[deg] Pointing Roll	238.127055	238.2843164851414	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	269475998.184000	269475016.396			
Observation start date	2006-07-16T22:25:33	2006-07-16T22:10:16			
[s] Observation end time (MET)	269479968.184000	269480537.04626			
Observation end date	2006-07-16T23:31:43	2006-07-16T23:42:17			
Read mode	TIMED	TIMED			

2.3 Aspect



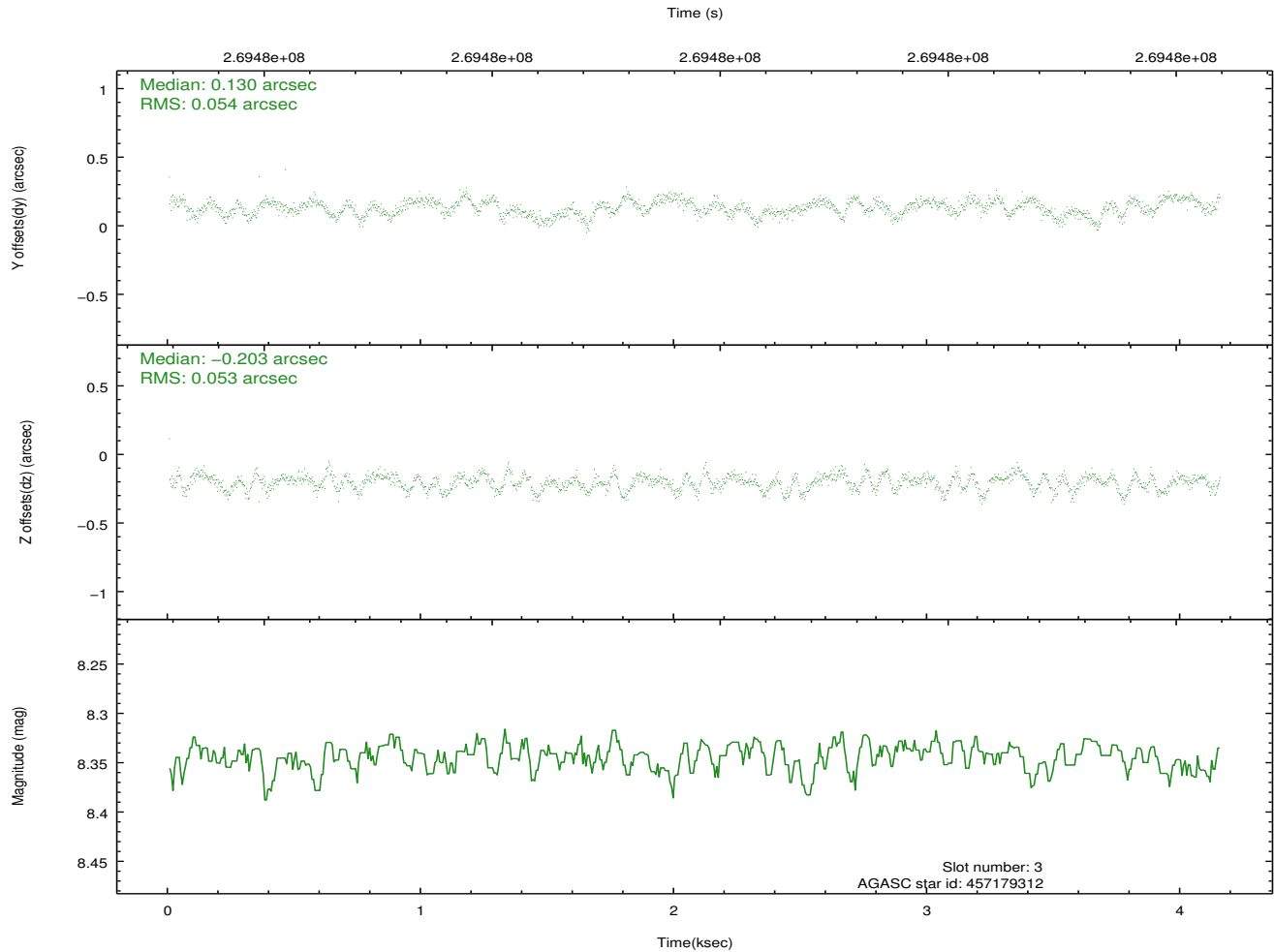
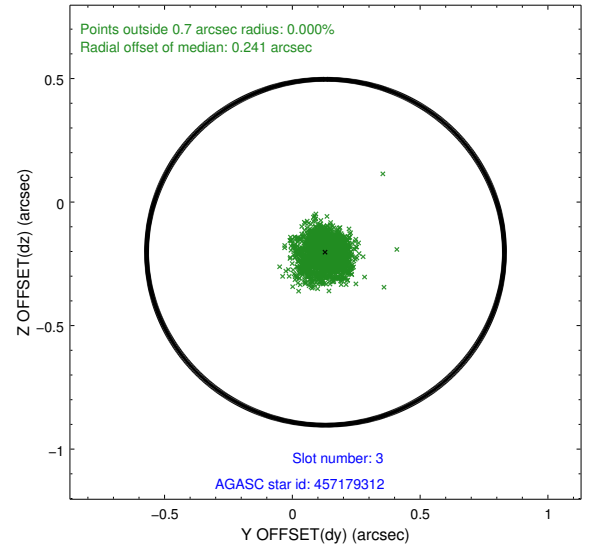
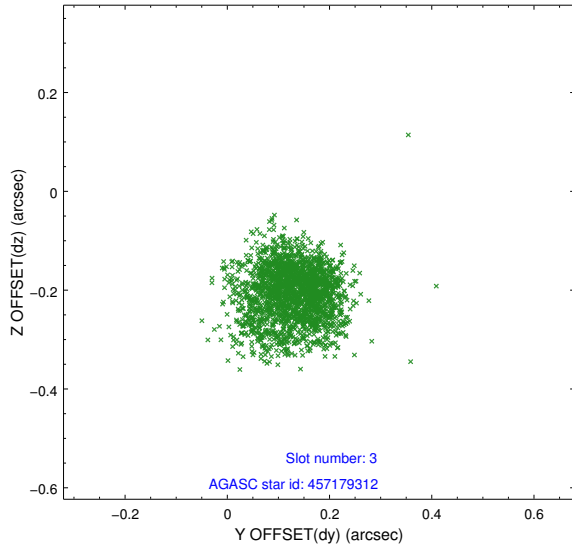


Slot Statistics

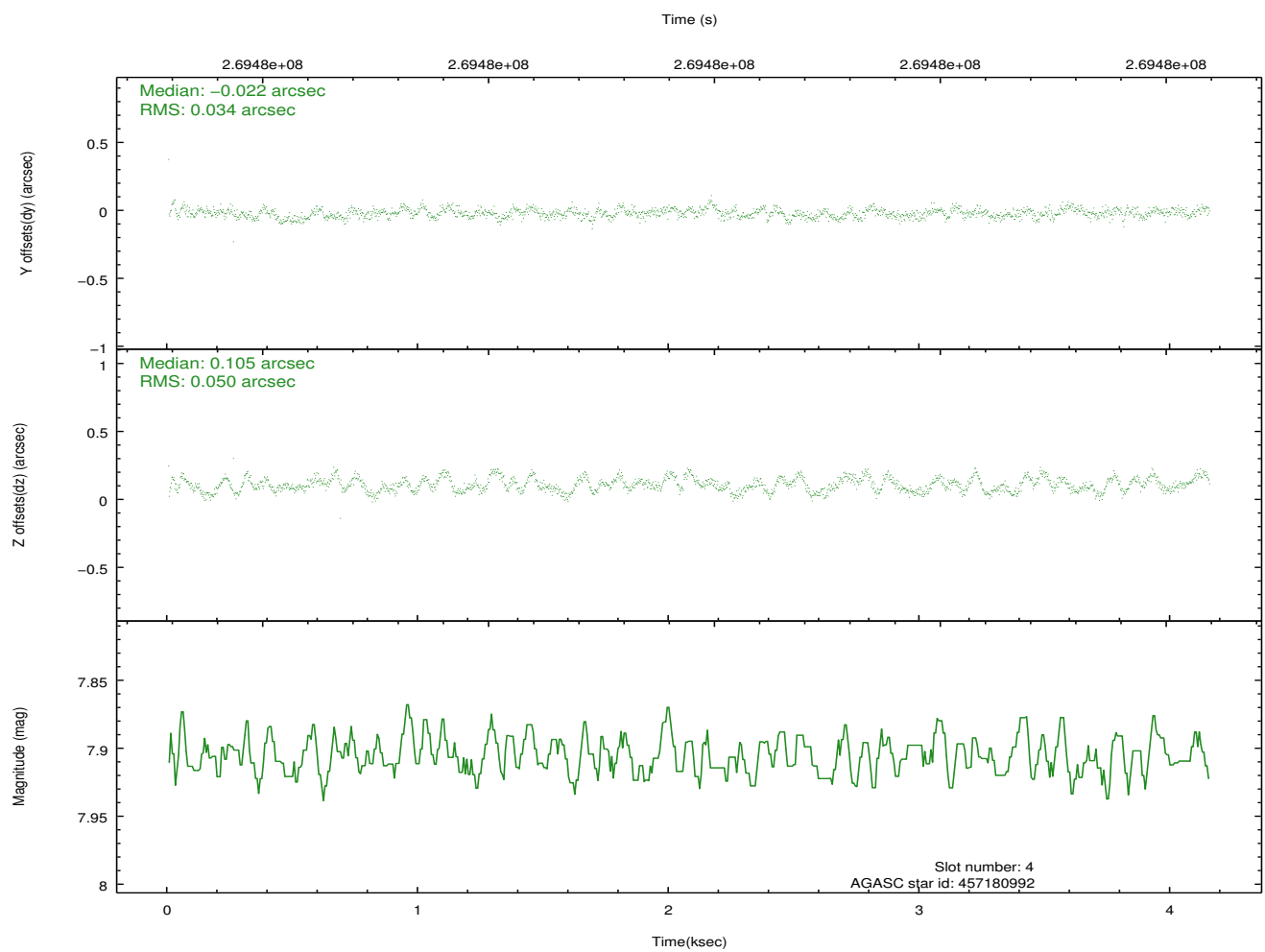
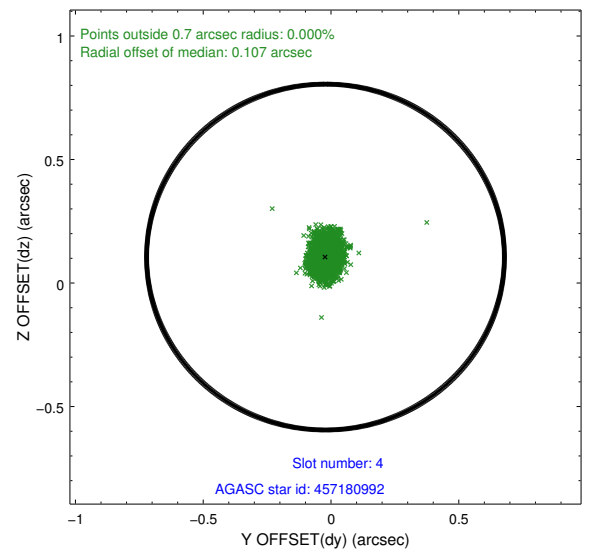
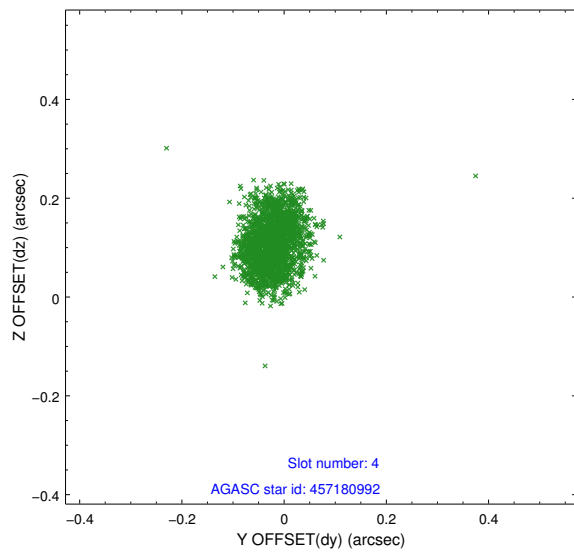
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1013	-0.074	-0.027	0.006	0.011	0.000000	0.000000	-759.12	-1731.80
1	FID	ACIS-S-4	7.22	1013	0.125	0.043	0.006	0.011	0.000000	0.000000	2153.64	175.26
2	FID	ACIS-S-5	7.24	1013	-0.082	-0.007	0.007	0.011	0.000000	0.000000	-1810.08	170.51
3	GUIDE	457179312	8.34	2022	0.130	-0.203	0.080	0.127	231.195614	51.666918	388.26	2115.69
4	GUIDE	457180992	7.91	2026	-0.022	0.105	0.063	0.101	230.362137	52.344454	-695.51	-744.28
5	GUIDE	457181616	8.83	2026	0.070	0.095	0.072	0.118	229.954323	52.287535	-51.63	-1402.20
6	GUIDE	457181640	6.45	2024	-0.149	-0.039	0.051	0.084	231.617187	52.052567	-1286.76	2156.38
7	GUIDE	457182176	8.45	2024	-0.028	0.043	0.063	0.102	230.710636	52.153119	-518.18	272.01

2.4 Star Slots

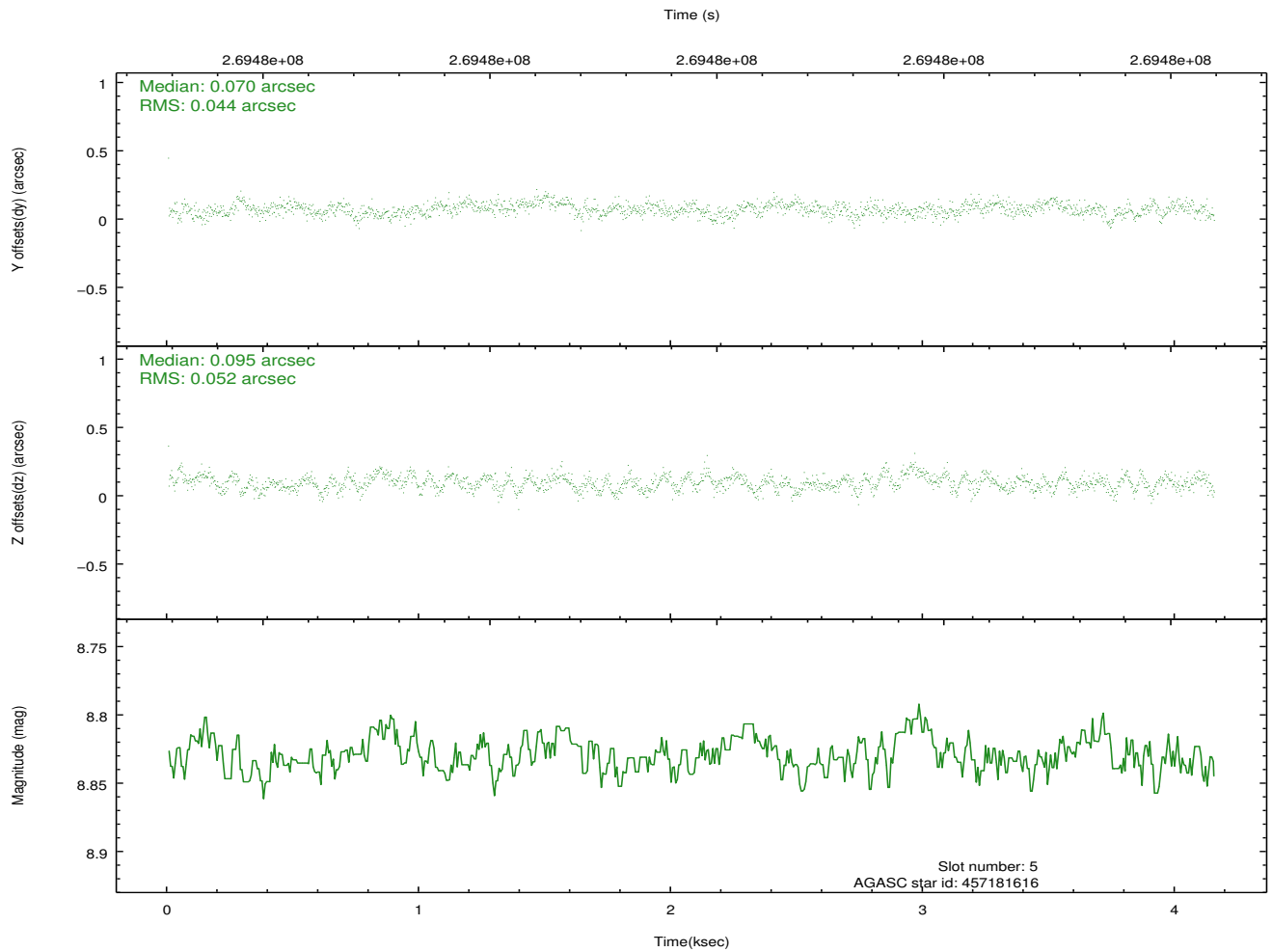
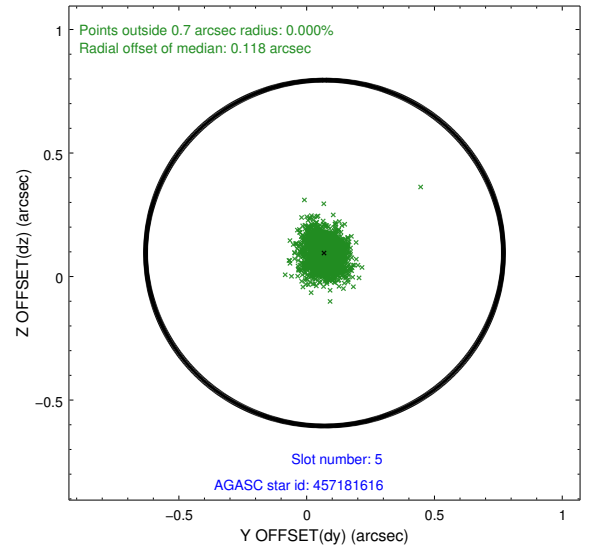
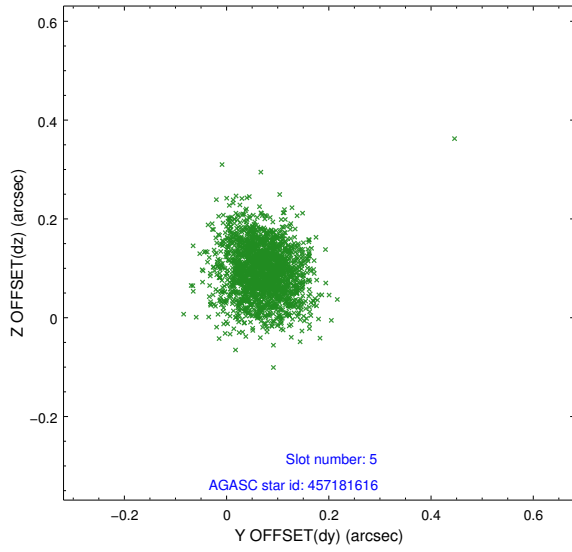
2.4.1 Slot 3



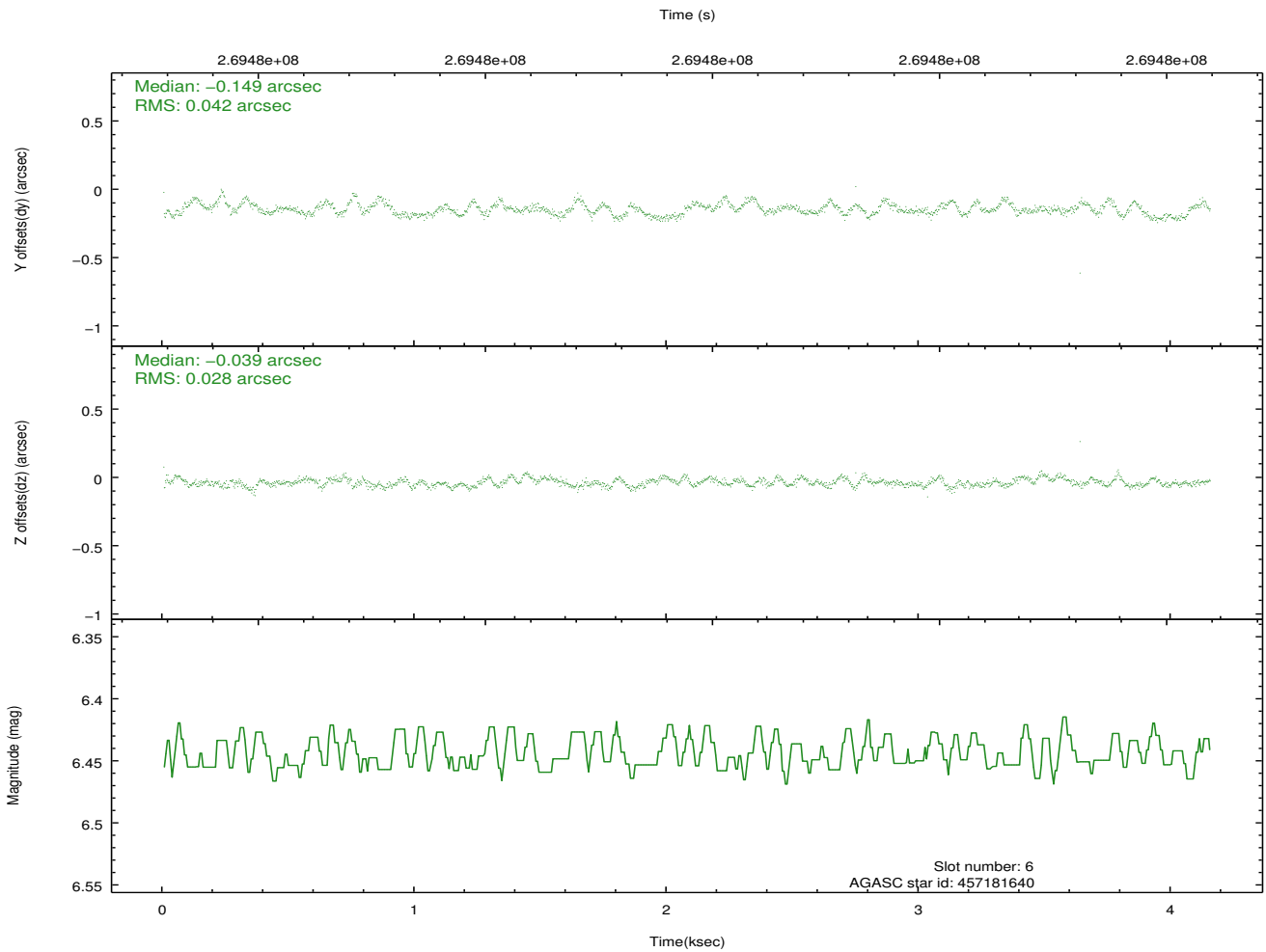
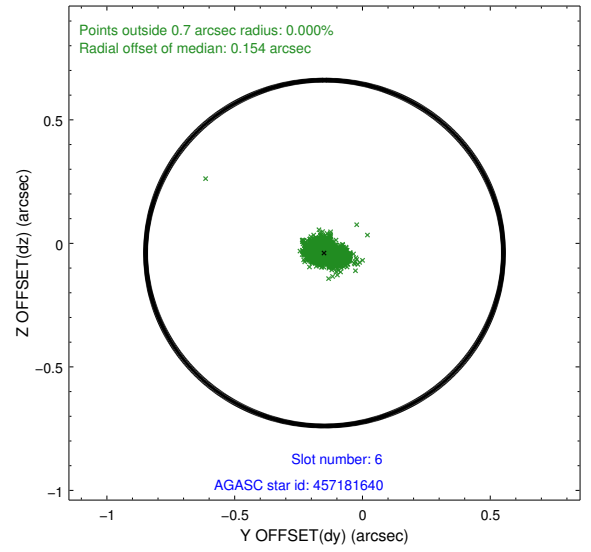
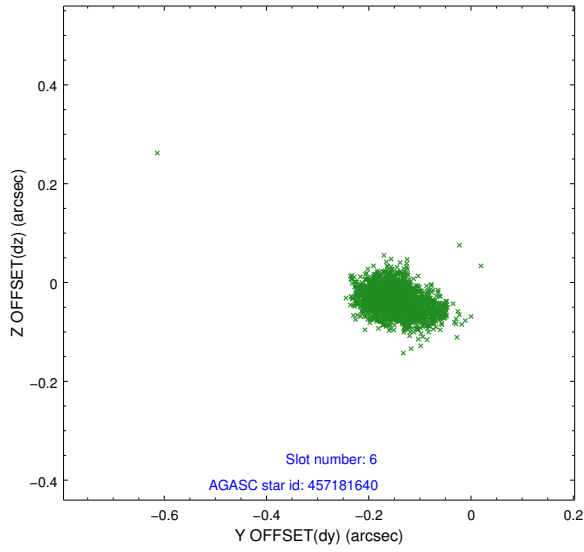
2.4.2 Slot 4



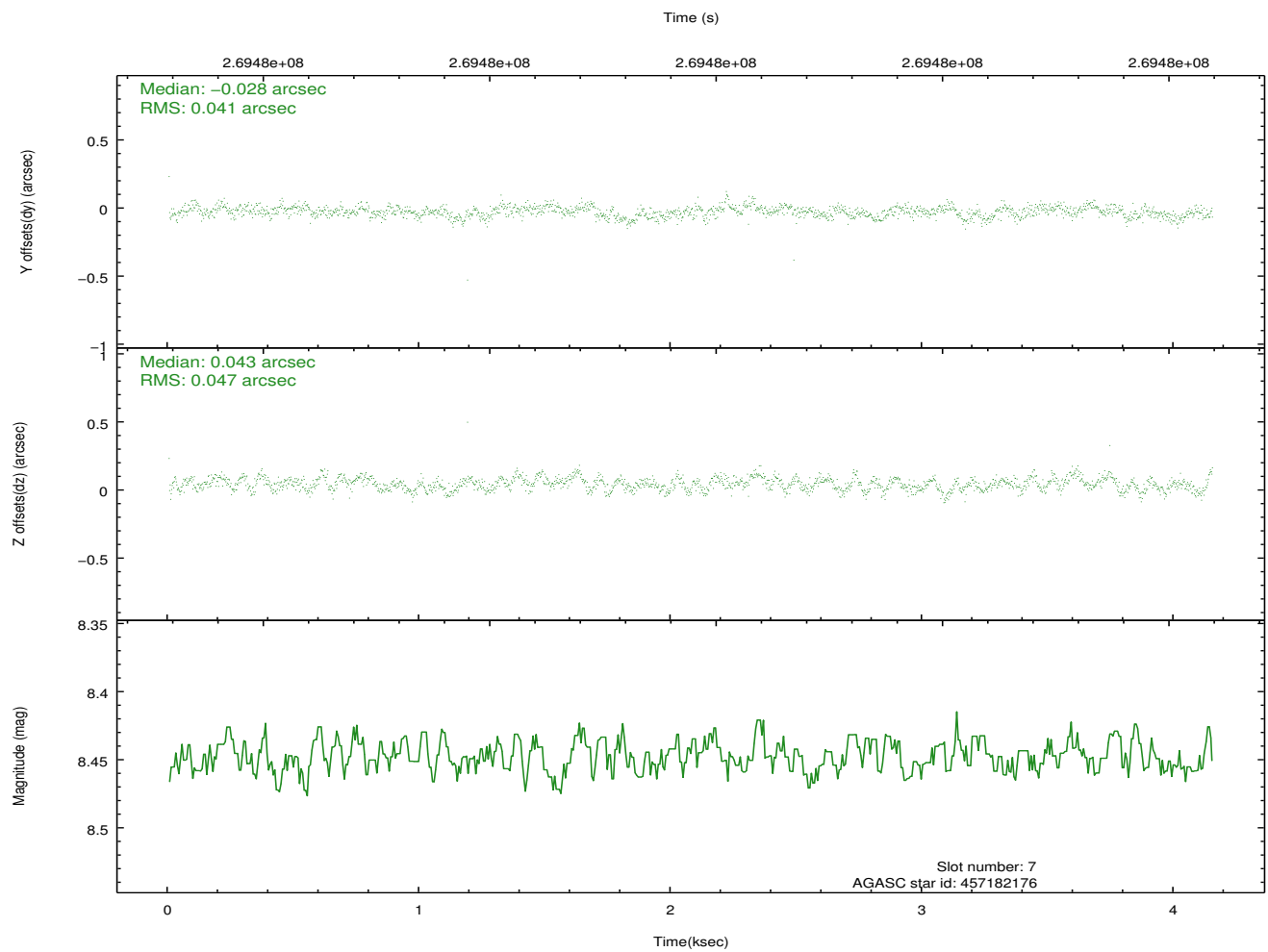
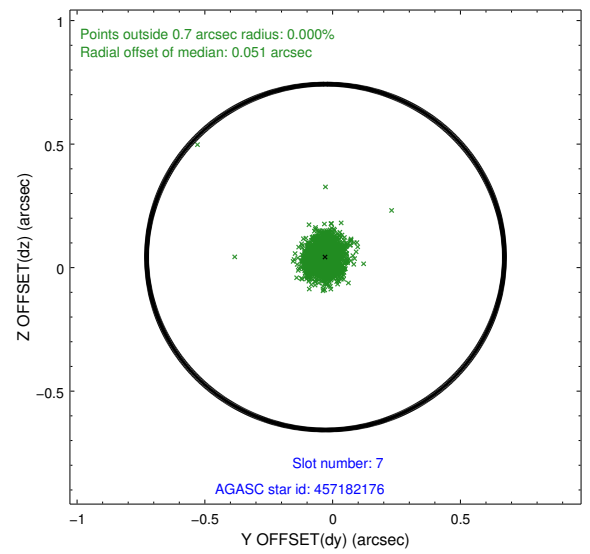
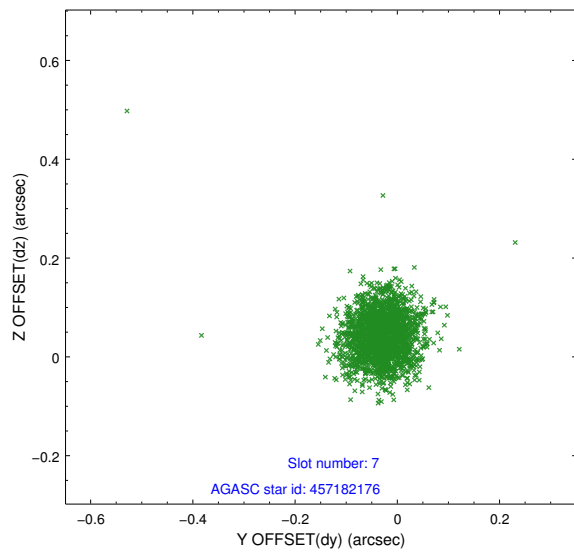
2.4.3 Slot 5



2.4.4 Slot 6

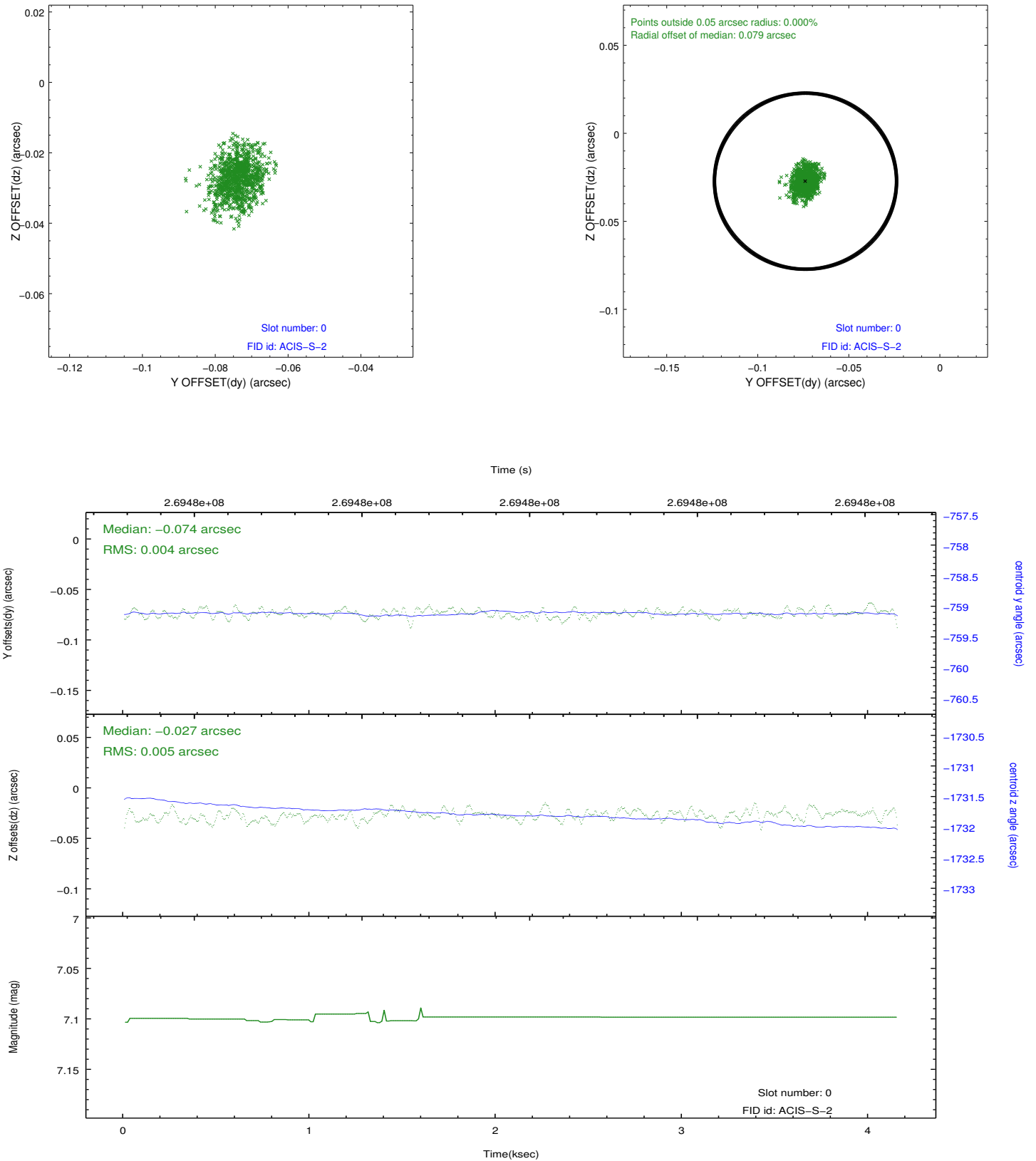


2.4.5 Slot 7

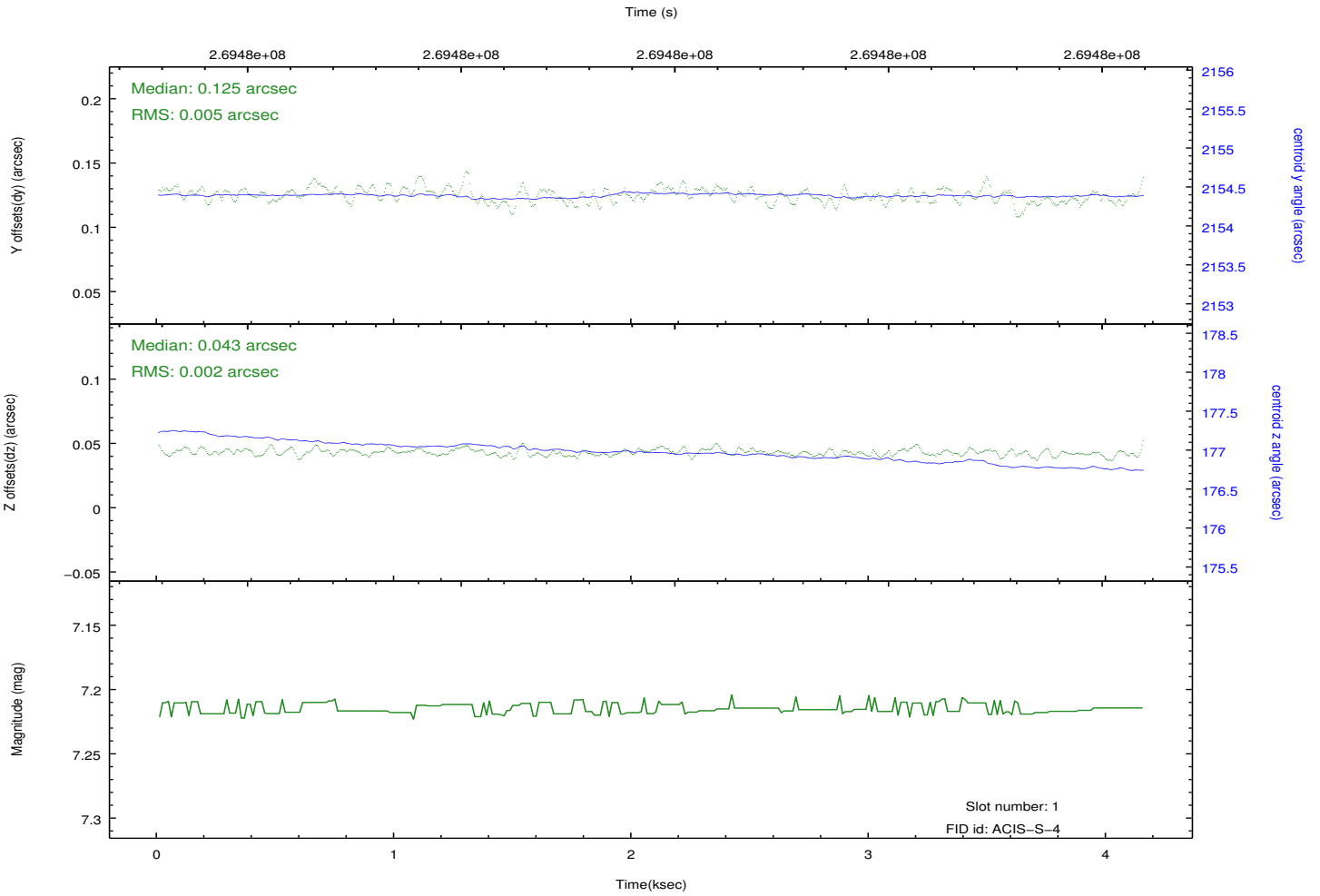
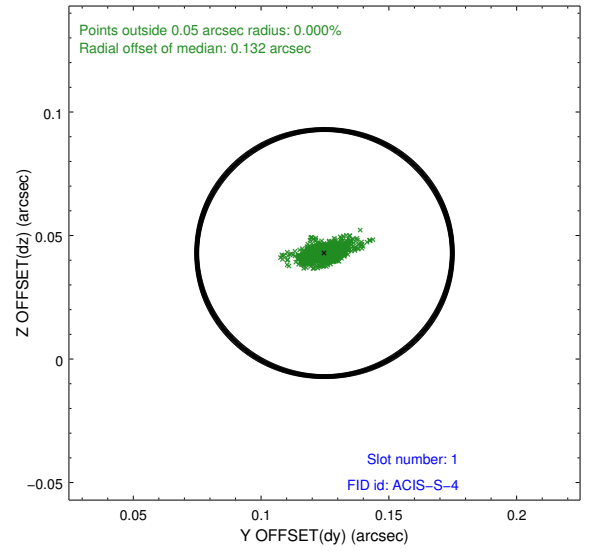
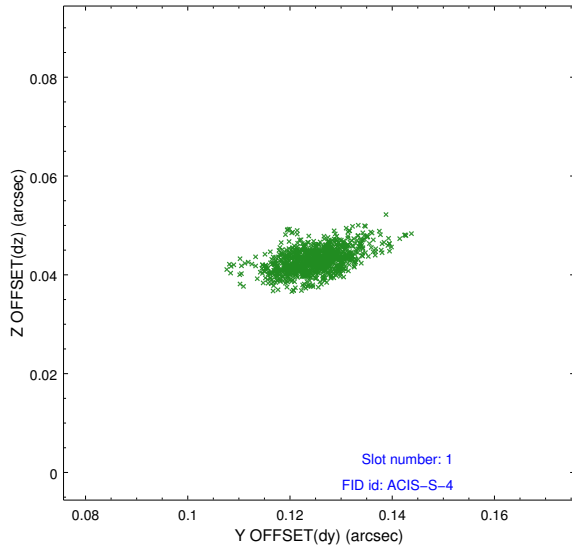


2.5 FID Slots

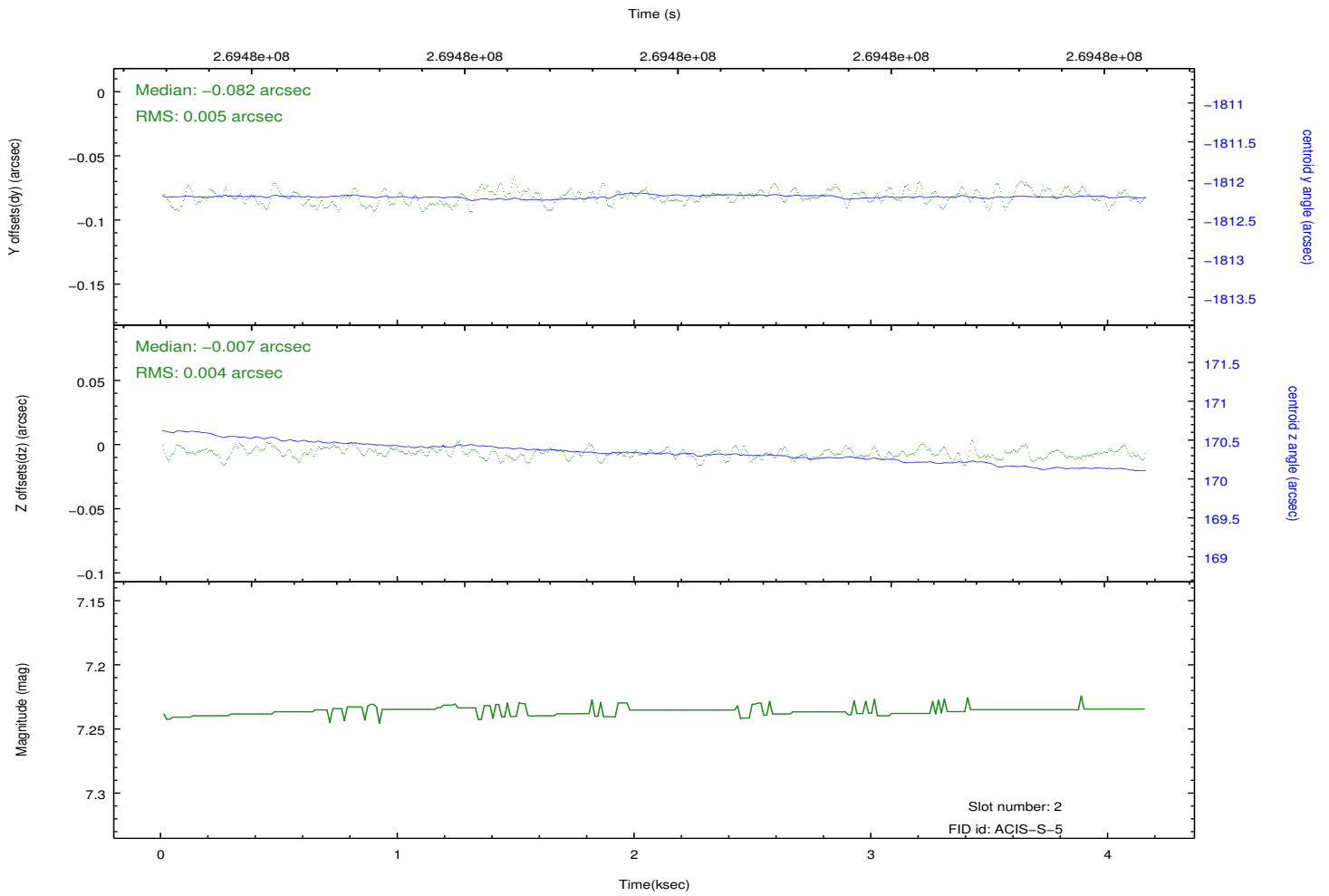
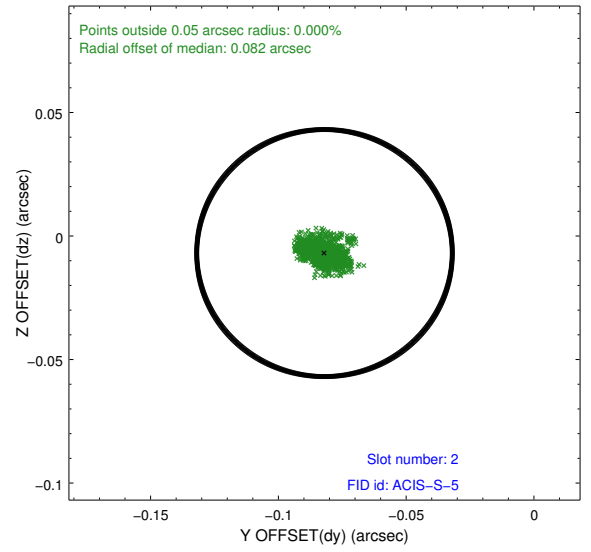
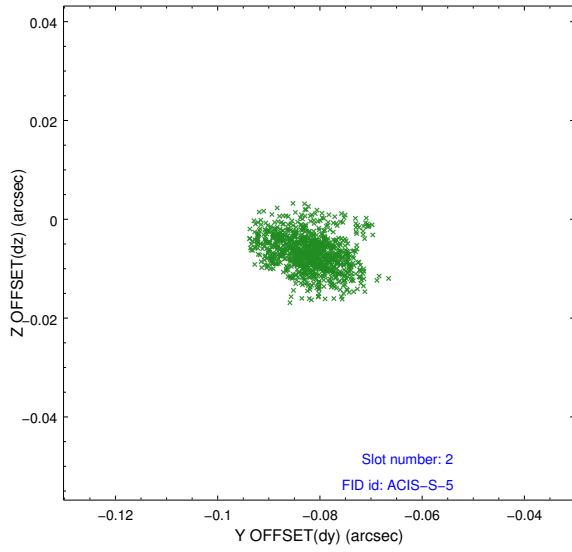
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.14720002

A.2 Comments