

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6761 - L2 Version 2
Chandra X-Ray Center

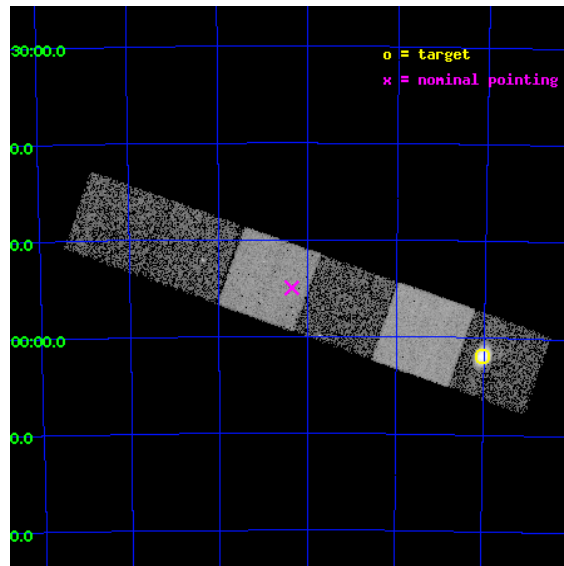
L2 Processing Date : Mar 28 2012

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

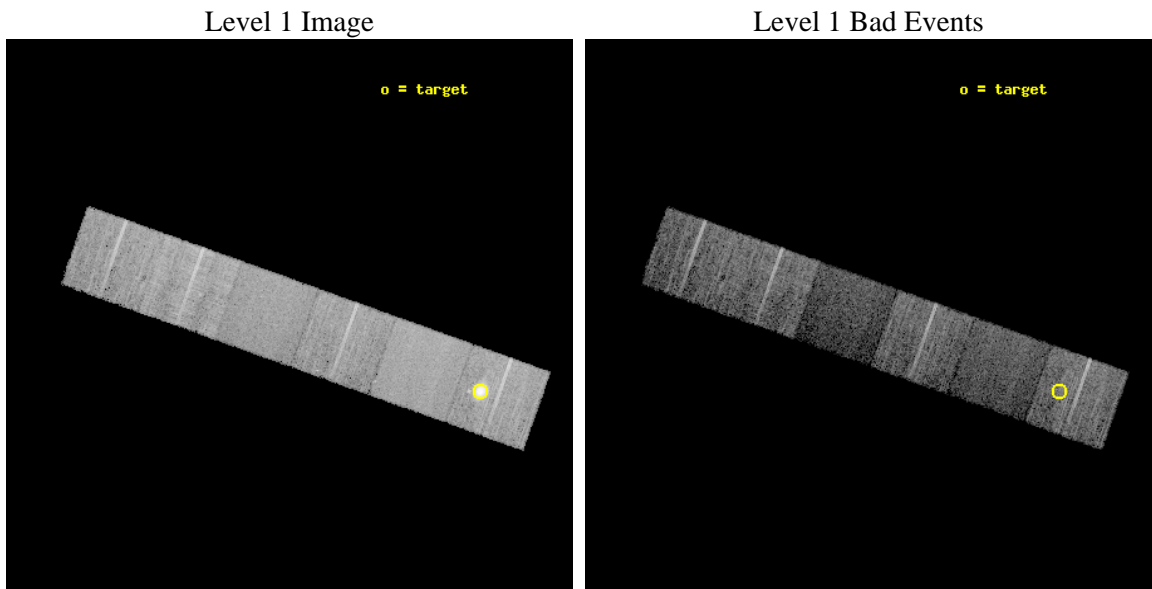
seq_num	590444	Sequence number
obs_id	6761	Observation id
title	AO7 ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S0,-120,21.44,0,0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	17.088692876977	Nominal RA [deg]
dec_nom	-71.916201181445	Nominal Dec [deg]
roll_nom	199.54545580855	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7756.7999711037	Sum of GTIs [s]
livetime	7658.5786992854	Livetime [s]
ontime4	7756.7999711037	Sum of GTIs [s]
ontime5	7756.7999711037	Sum of GTIs [s]
ontime6	7753.5590008199	Sum of GTIs [s]
ontime7	7756.7999711037	Sum of GTIs [s]
ontime8	7753.5590007901	Sum of GTIs [s]
ontime9	7756.7999711037	Sum of GTIs [s]
l2events	88639	Number of level 2 events



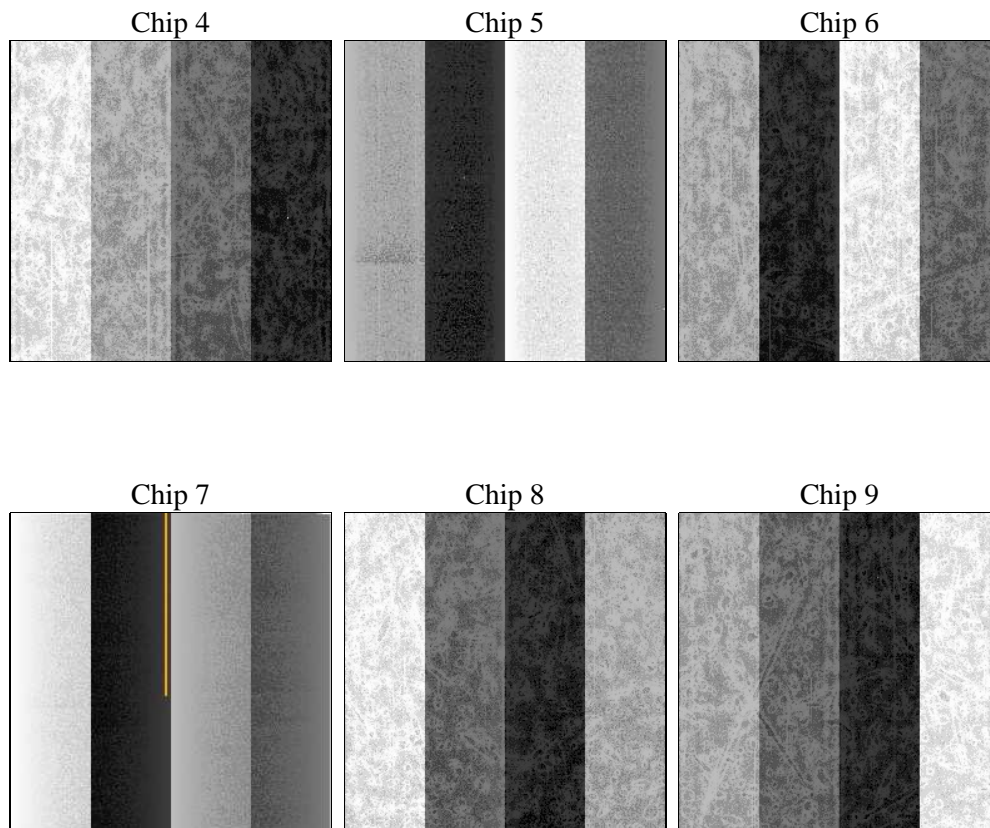
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	7756.7999711037	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	7756.7999711037	Sum of GTIs [s]
date	2012-03-28T05:42:40	Date and time of file creation	ontime5	7756.7999711037	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7753.5590008199	Sum of GTIs [s]
			ontime7	7756.7999711037	Sum of GTIs [s]
			ontime8	7753.5590007901	Sum of GTIs [s]
			ontime9	7756.7999711037	Sum of GTIs [s]
			l1events	364132	Number of level 1 events

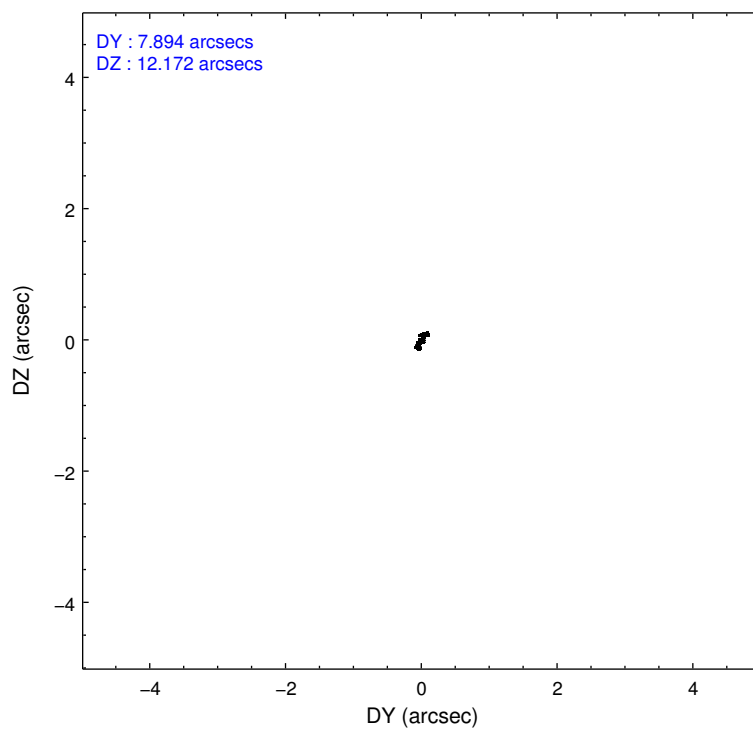
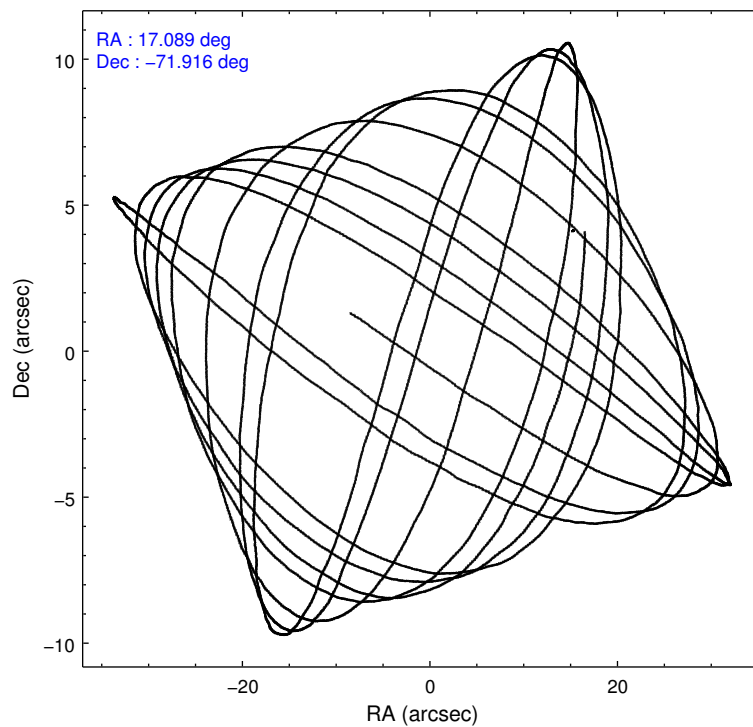
2.1.4 Events

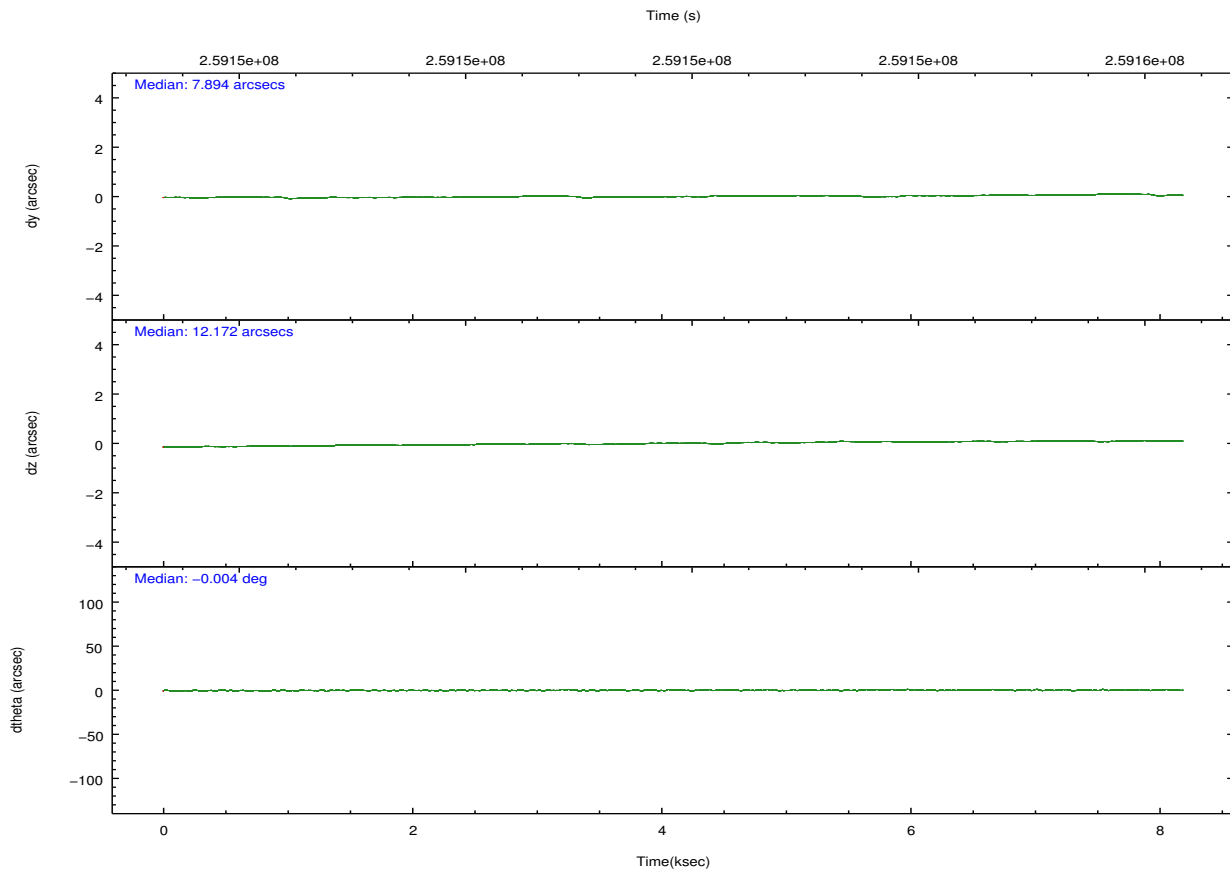
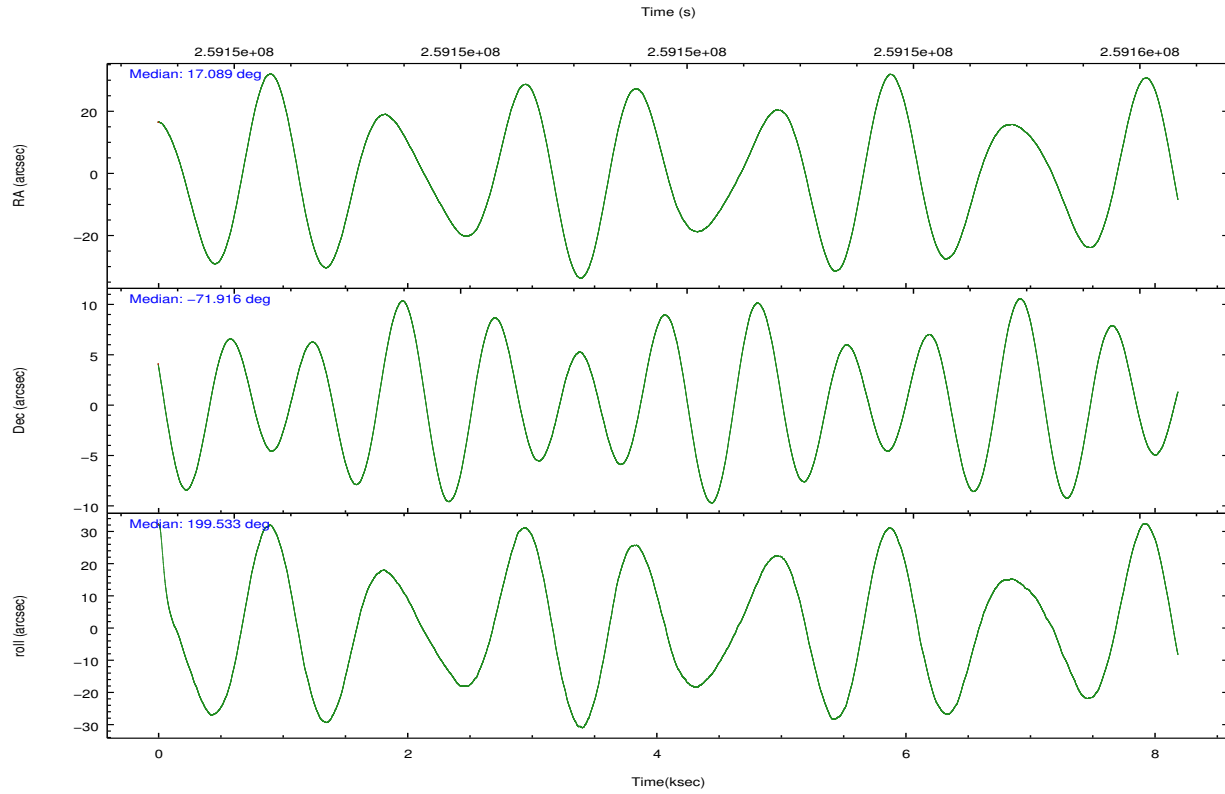
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	79751	63403	52791	49226	67716	51245	grade 0 events	17098	2352	2077	2382	4320	1812
rejected events	57447	30663	47380	24909	51737	46122		21%	3%	3%	4%	6%	3%
rejected %	72%	48%	89%	50%	76%	90%	grade 1 events	151	71	23	45	59	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	2474	10139	1154	5156	3596	1072
								3%	15%	2%	10%	5%	2%
							grade 3 events	869	1610	621	2381	1917	571
								1%	2%	1%	4%	2%	1%
							grade 4 events	866	1546	546	2321	1759	610
								1%	2%	1%	4%	2%	1%
							grade 5 events	1821	5402	1818	5389	2668	1939
								2%	8%	3%	10%	3%	3%
							grade 6 events	1002	17106	1015	12089	4391	1060
								1%	26%	1%	24%	6%	2%
							grade 7 events	55470	25177	45537	19463	49006	44145
								69%	39%	86%	39%	72%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	17.144551	17.08869287697681	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.895165	-71.91620118144546	Alternating exposures requested	N	N
[deg] Pointing Roll	199.441895	199.5454558085454	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	247190464.184000	247190464.184000			
[s] Window stop time (MET)	260150465.184000	260150465.184000			
[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)	259147928.184000	259147553.07635			
Observation start date	2006-03-19T09:31:03	2006-03-19T09:25:53			
[s] Observation end time (MET)	259155928.184000	259156062.62674			
Observation end date	2006-03-19T11:44:23	2006-03-19T11:47:42			
Read mode	TIMED	TIMED			

2.3 Aspect



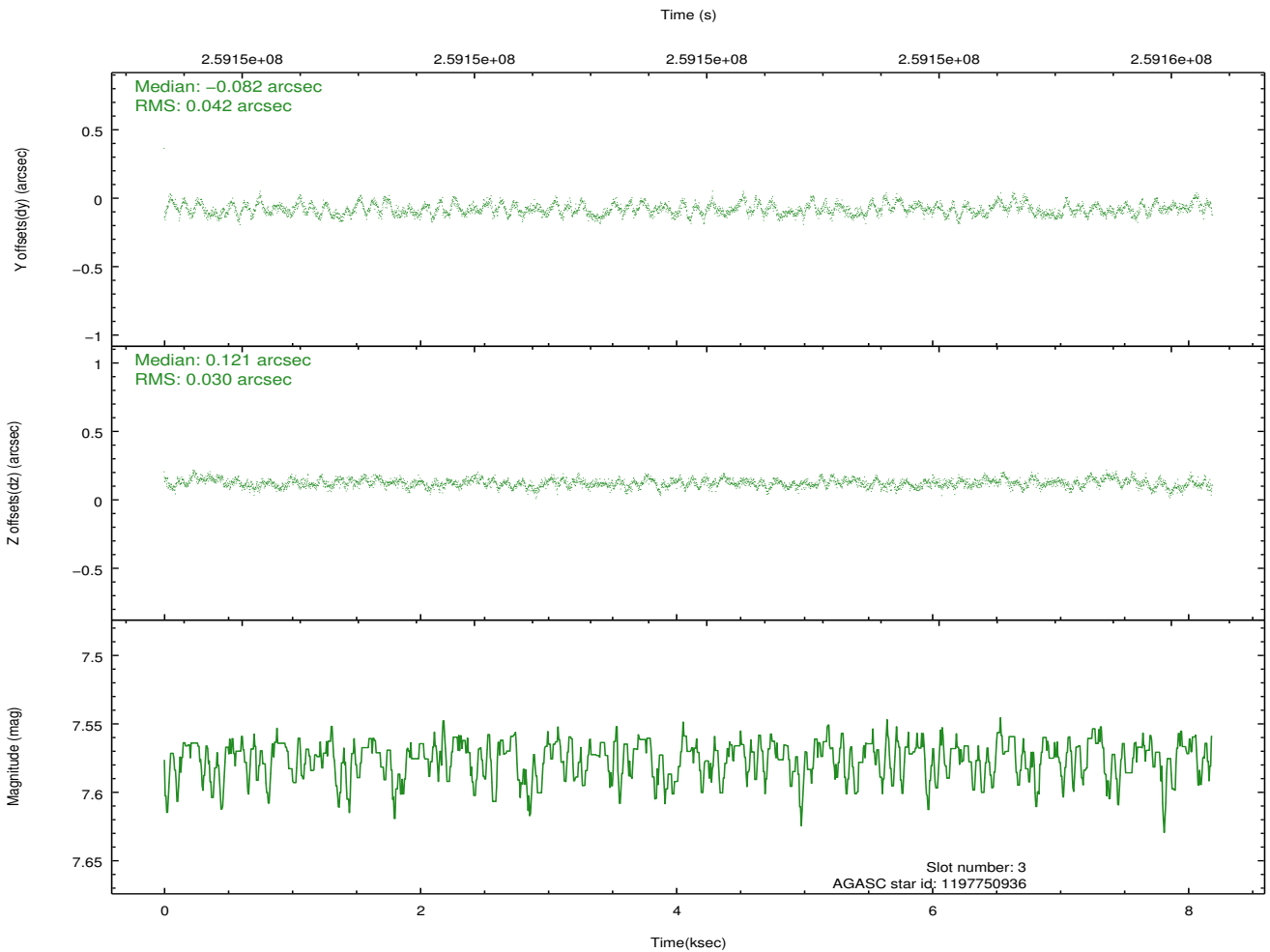
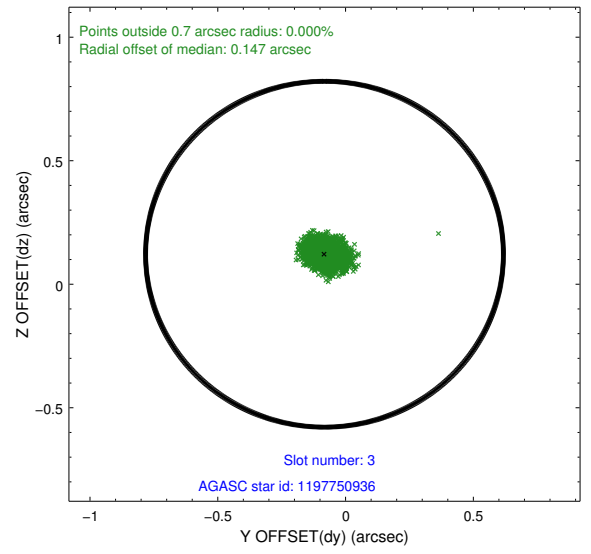
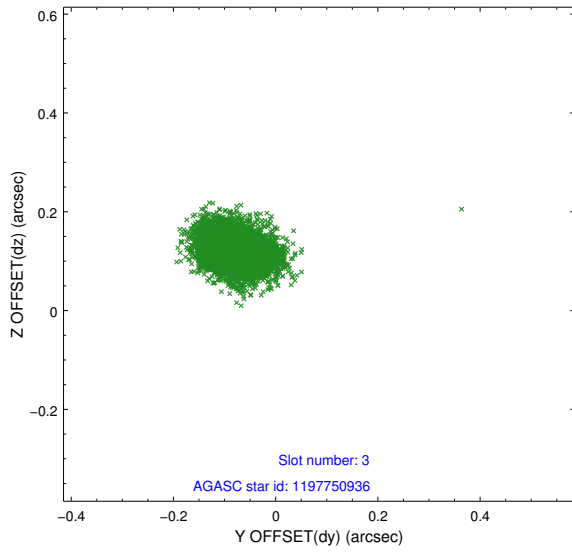


Slot Statistics

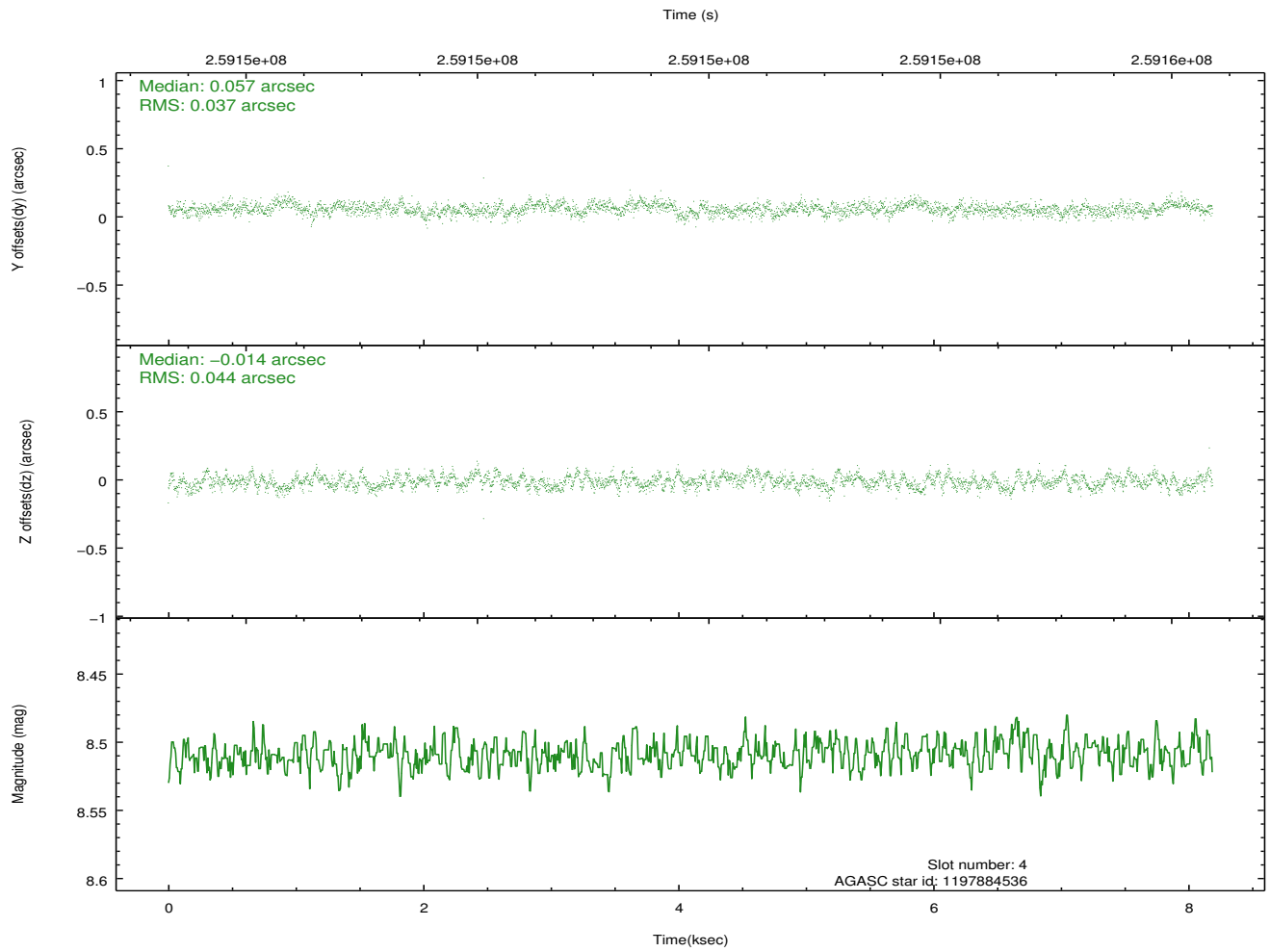
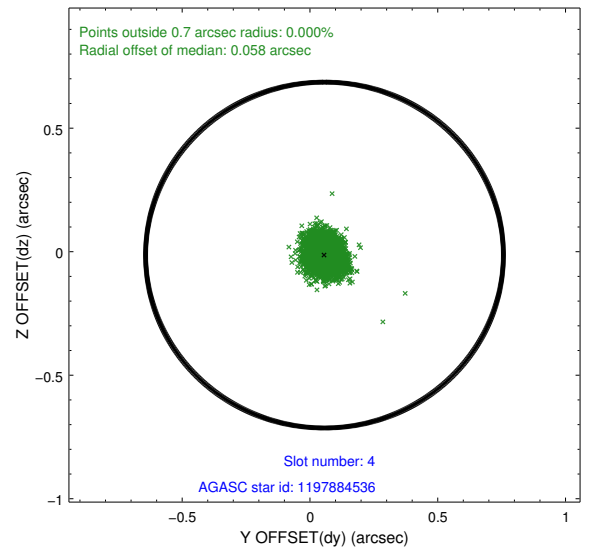
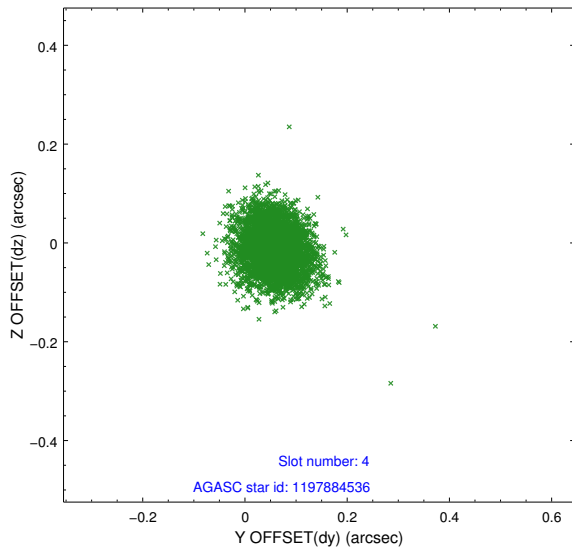
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1998	-0.011	-0.029	0.007	0.012	0.000000	0.000000	-760.69	-1733.50
1	FID	ACIS-S-4	7.20	1996	0.092	0.013	0.006	0.010	0.000000	0.000000	2152.38	174.31
2	FID	ACIS-S-5	7.23	1998	-0.112	0.025	0.007	0.013	0.000000	0.000000	-1812.75	168.78
3	GUIDE	1197750936	7.57	3995	-0.082	0.121	0.055	0.087	15.387940	-71.549550	1483.35	-1811.35
4	GUIDE	1197884536	8.51	3992	0.057	-0.014	0.061	0.097	17.160729	-71.835289	-88.00	-197.89
5	GUIDE	1197884712	8.30	3994	-0.078	-0.083	0.053	0.088	16.087398	-72.252690	1525.77	837.27
6	GUIDE	1197885104	9.34	3980	0.061	-0.071	0.091	0.158	17.845067	-72.189368	-372.45	1259.89
7	GUIDE	1197885328	7.24	3993	0.039	0.042	0.067	0.102	16.283090	-71.733943	725.53	-864.03

2.4 Star Slots

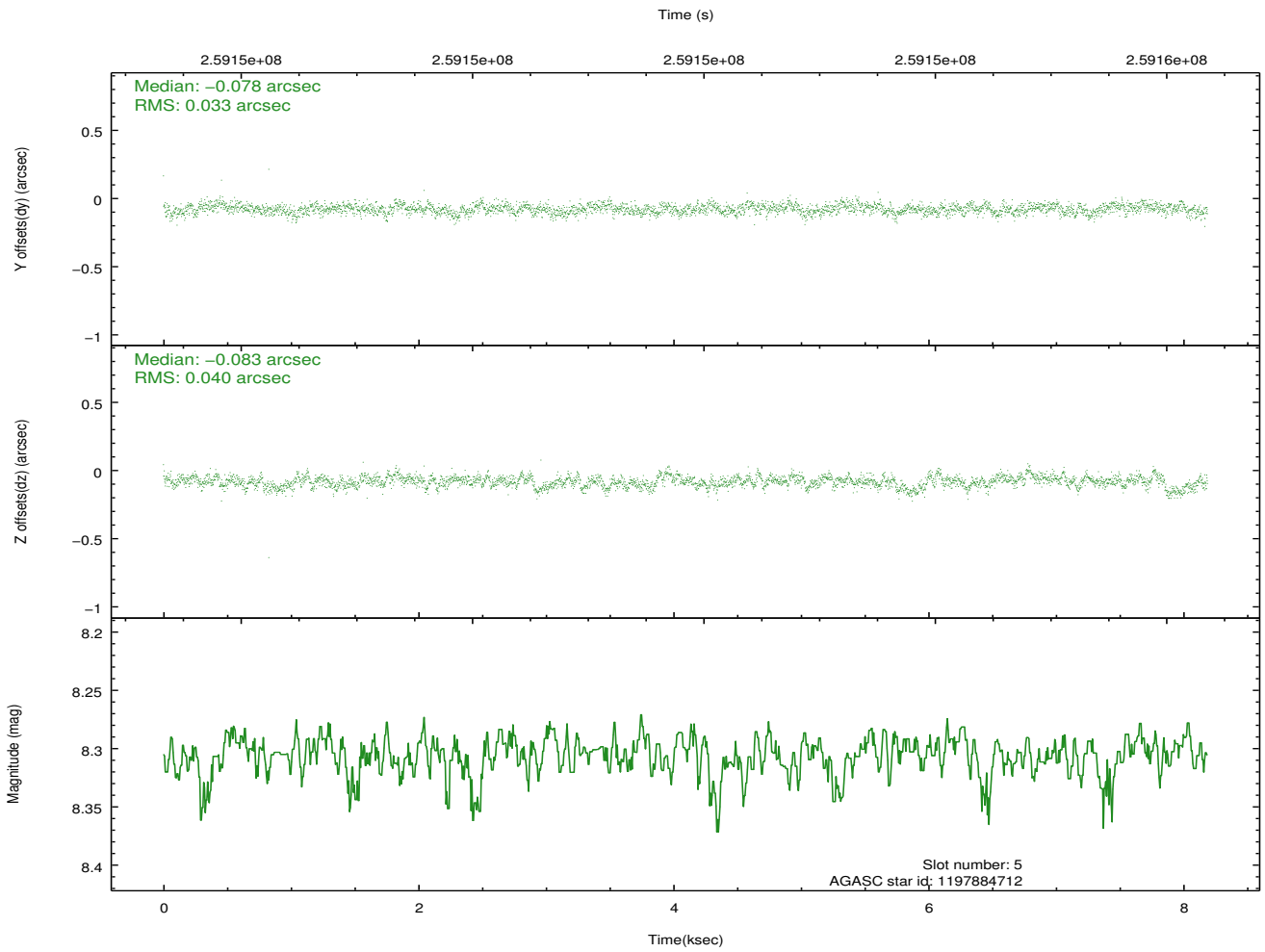
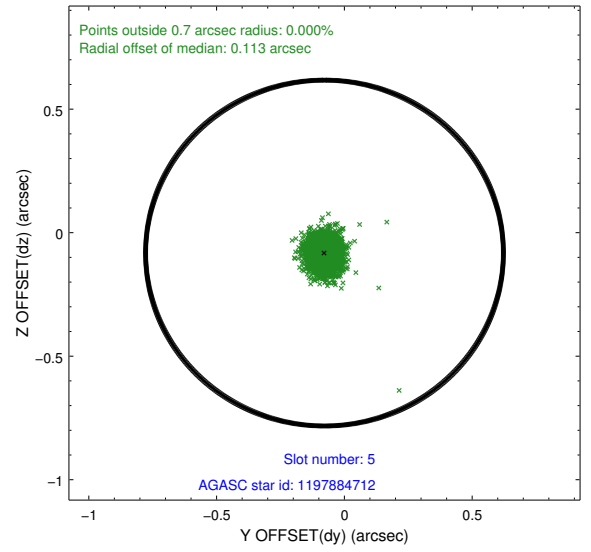
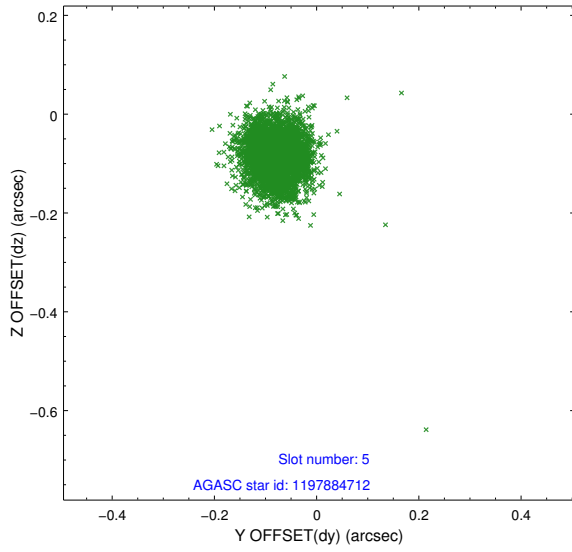
2.4.1 Slot 3



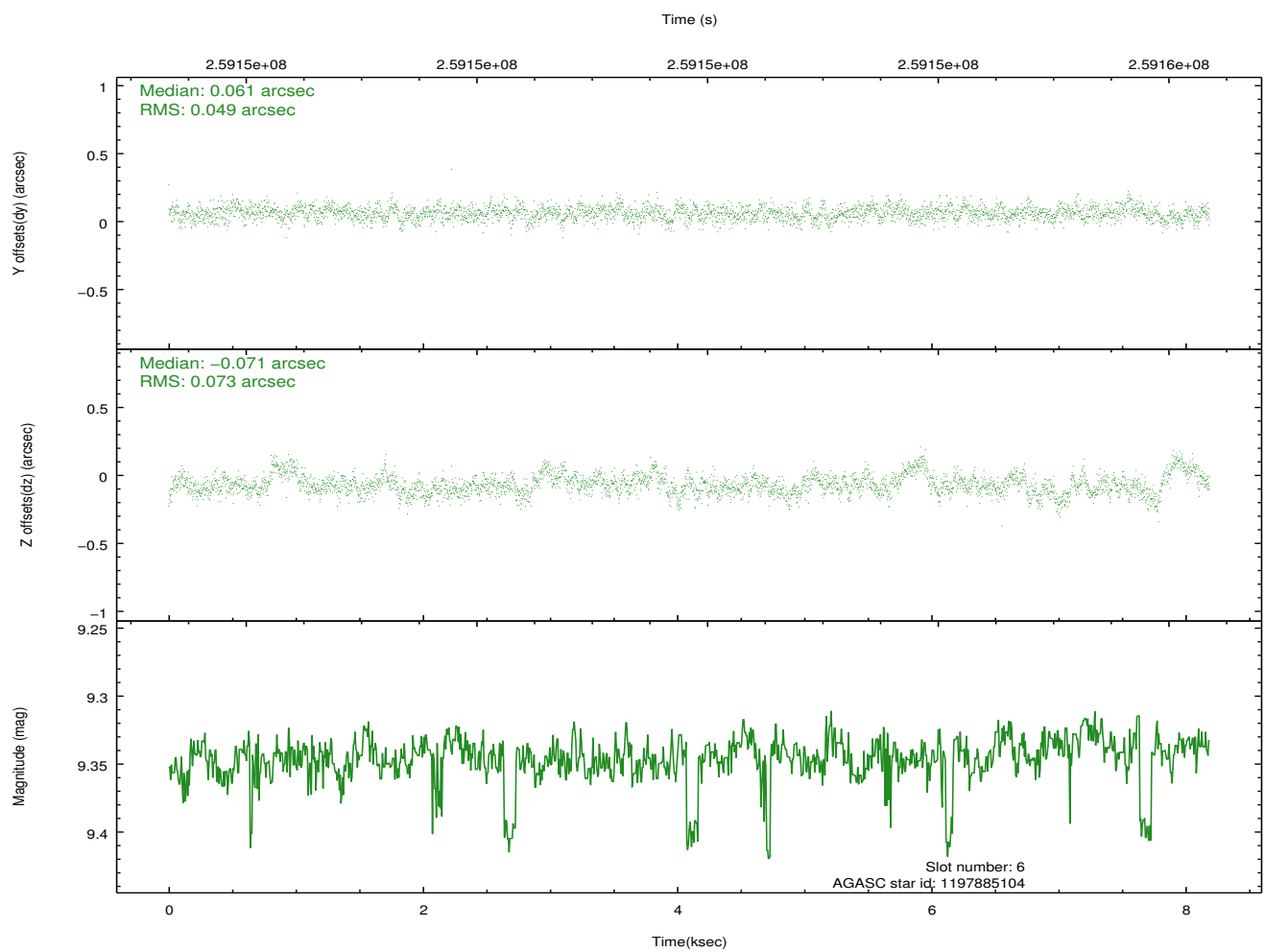
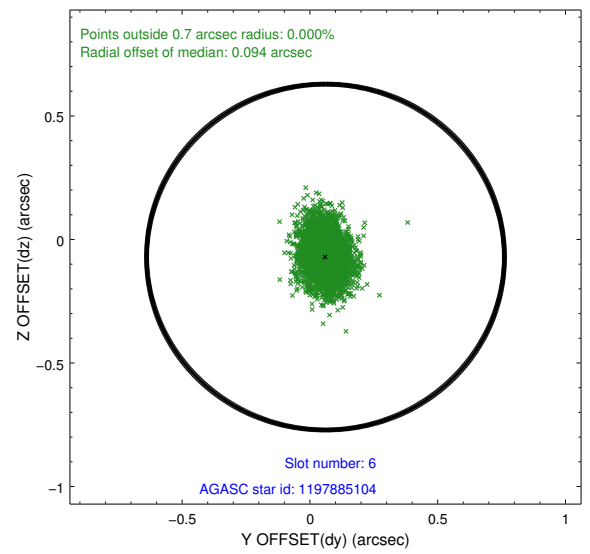
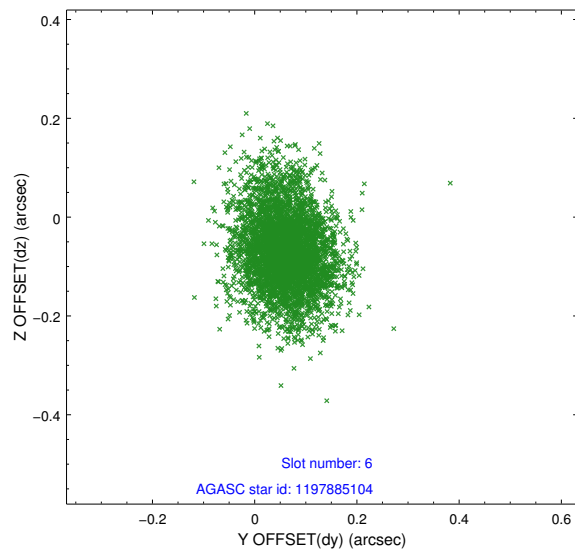
2.4.2 Slot 4



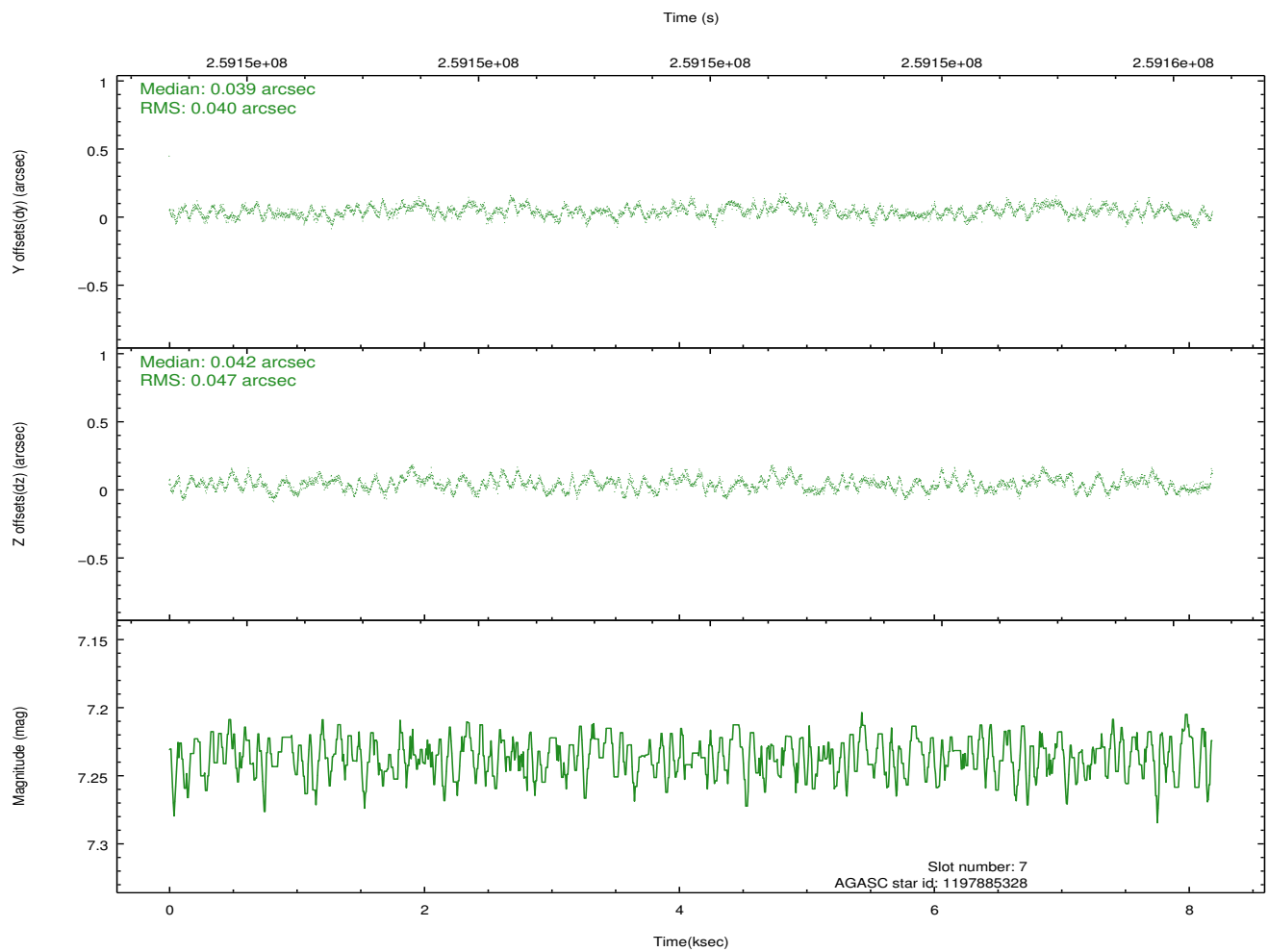
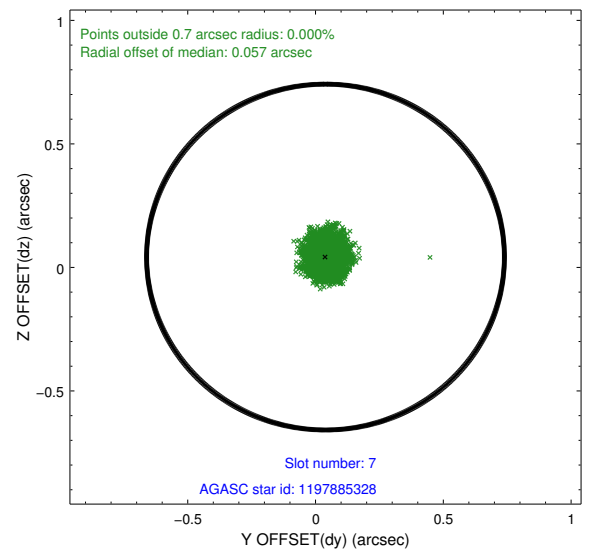
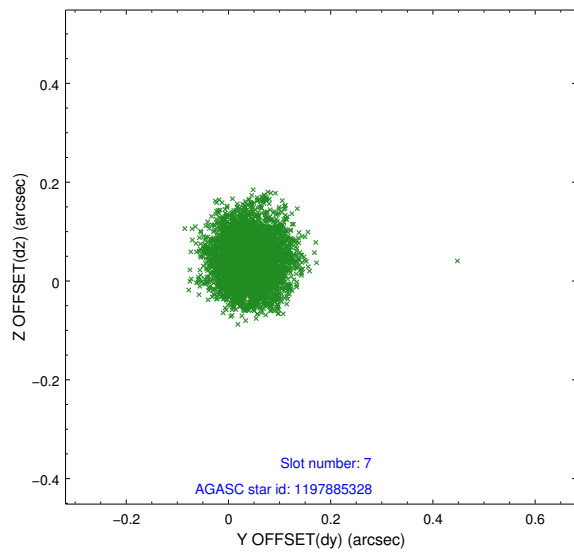
2.4.3 Slot 5



2.4.4 Slot 6

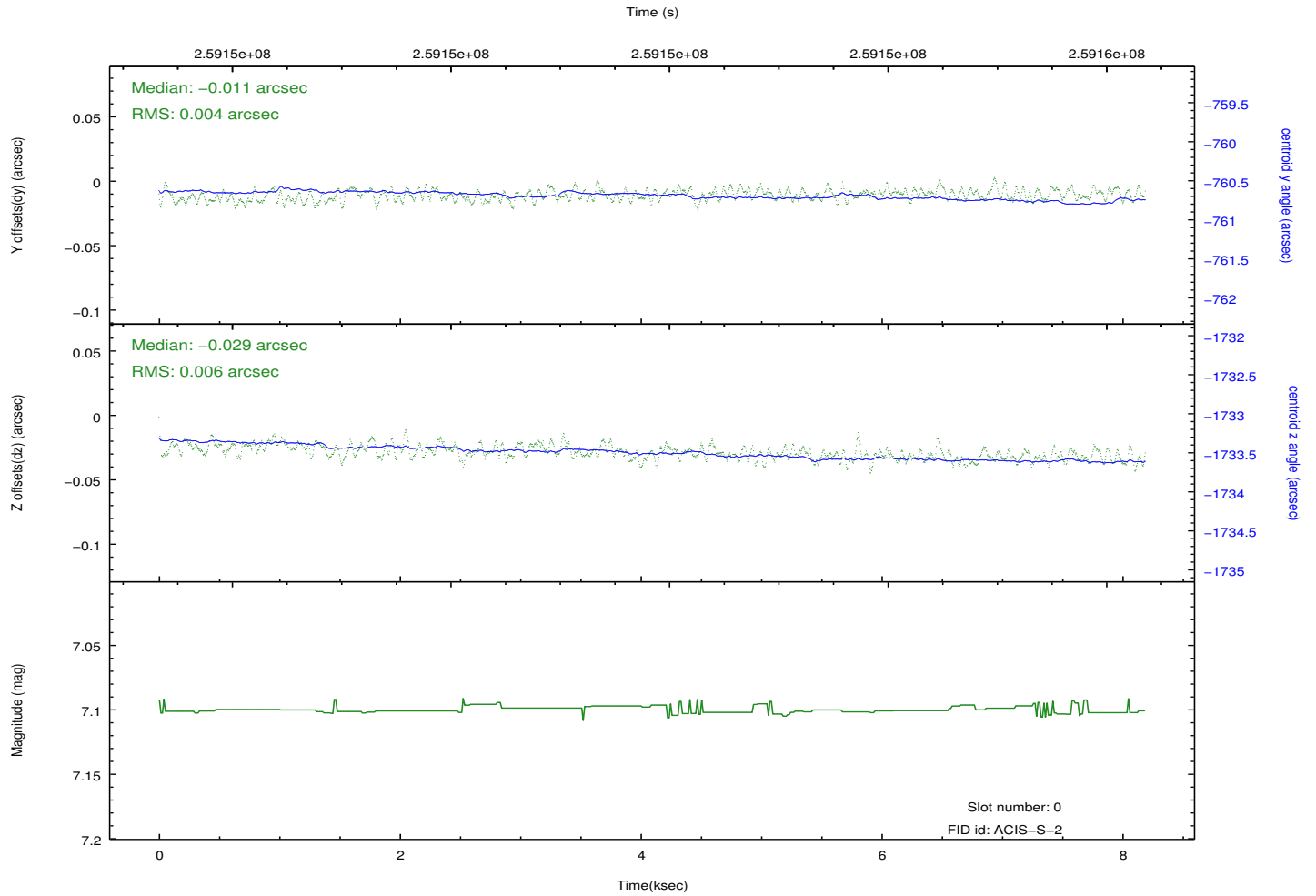
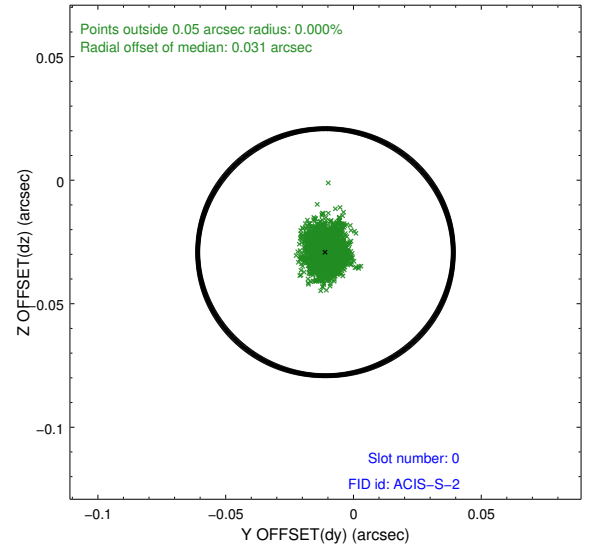
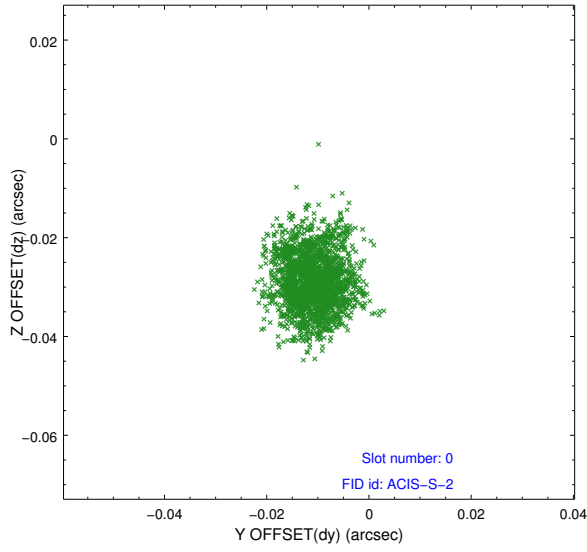


2.4.5 Slot 7

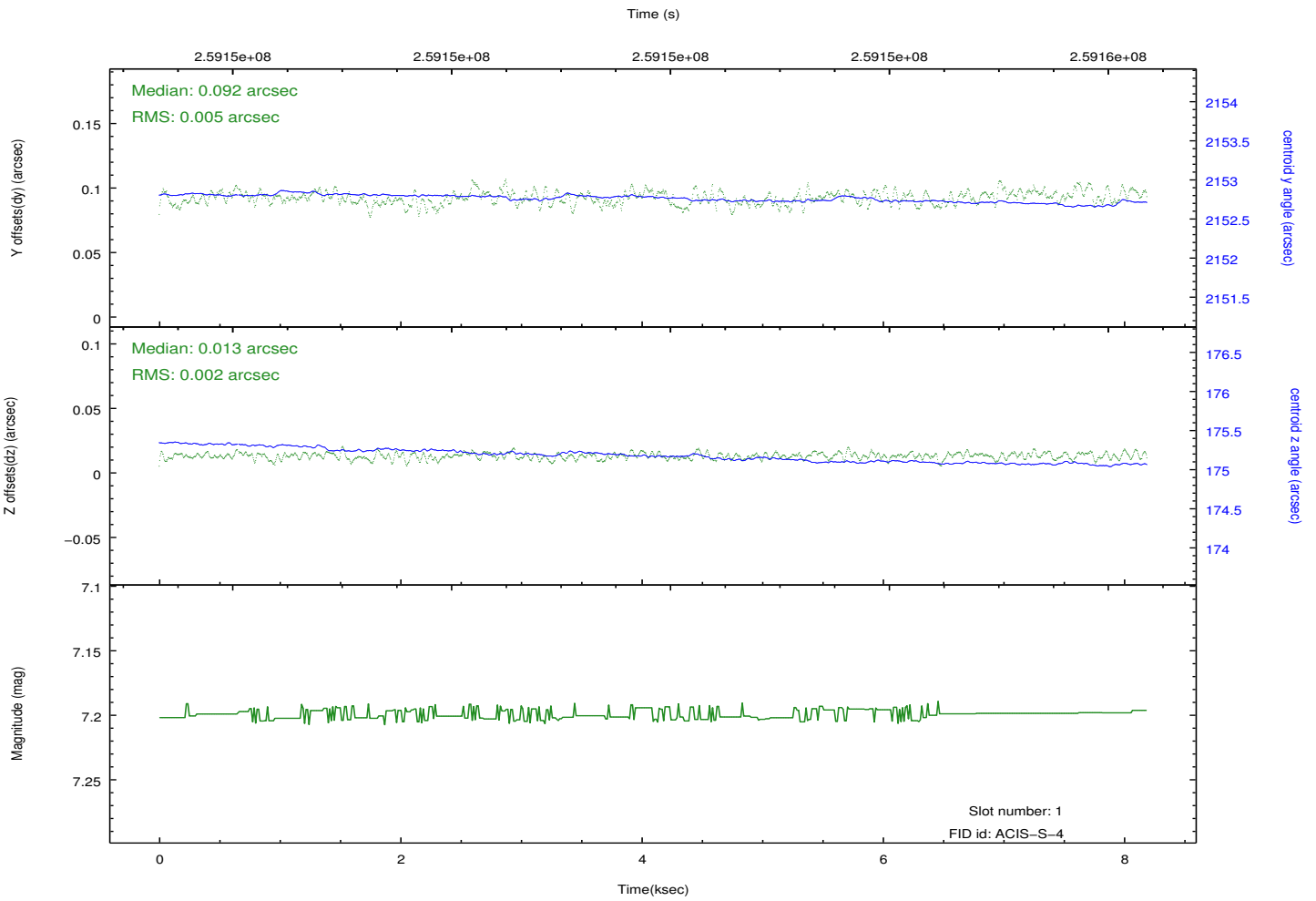
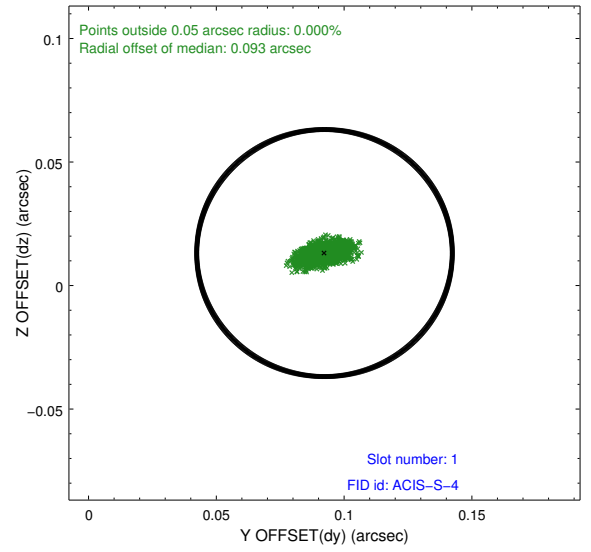
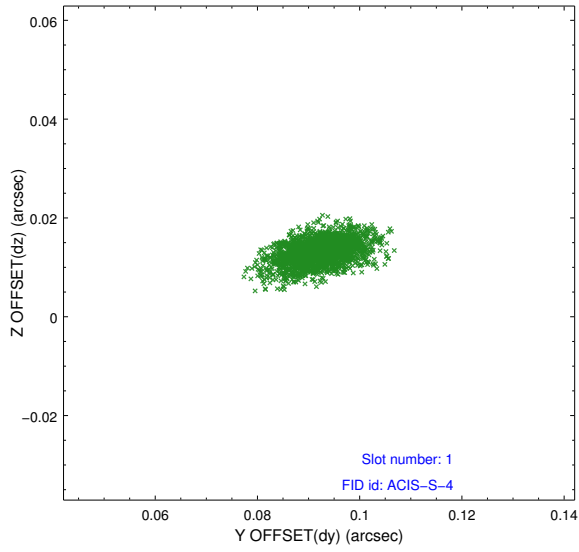


2.5 FID Slots

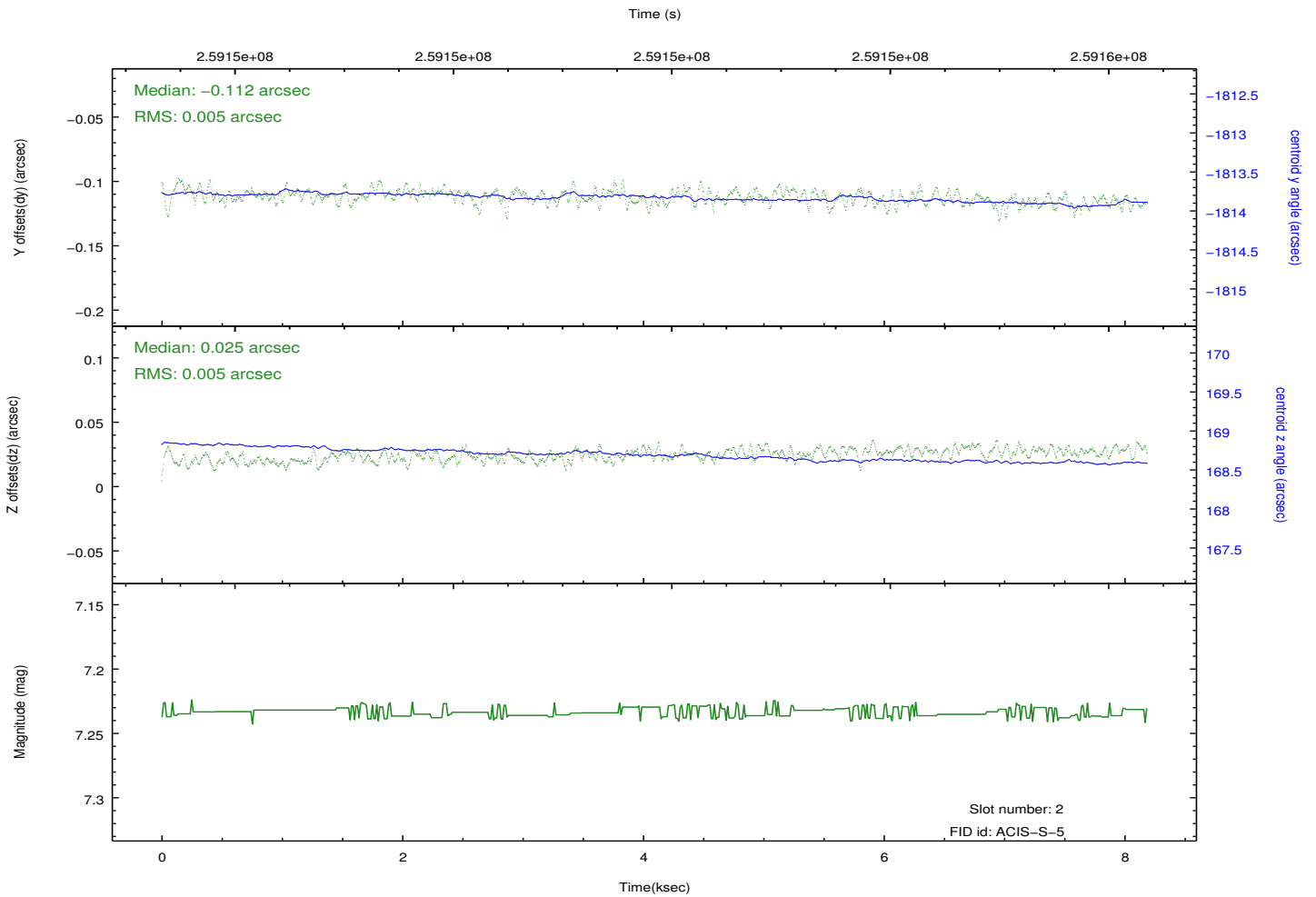
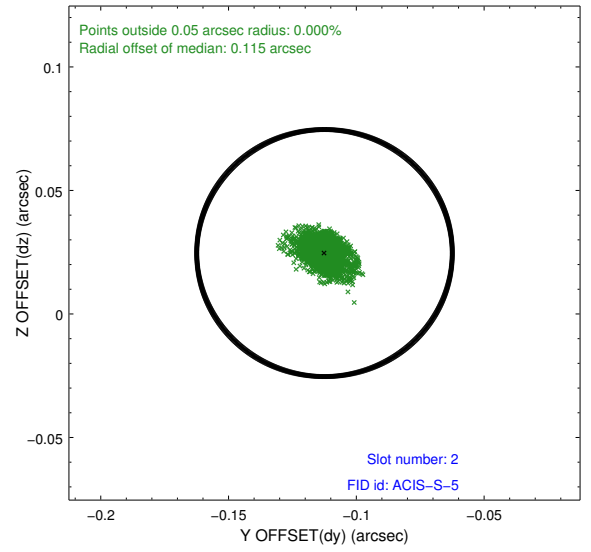
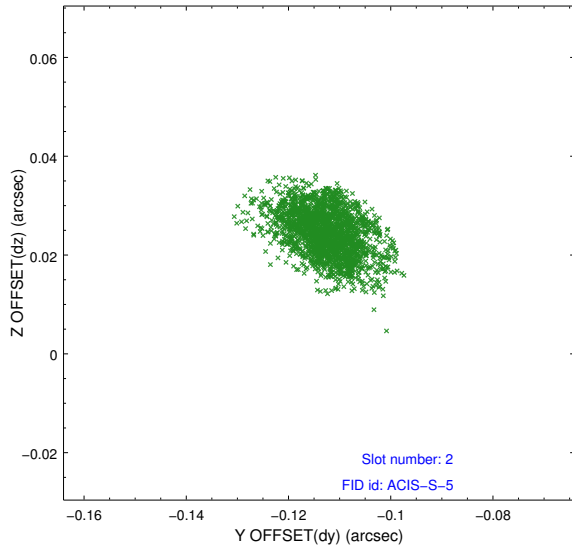
2.5.1 Slot 0



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)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.75679997

A.2 Comments

Window constraint met.