

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8102 - L2 Version 2
Chandra X-Ray Center

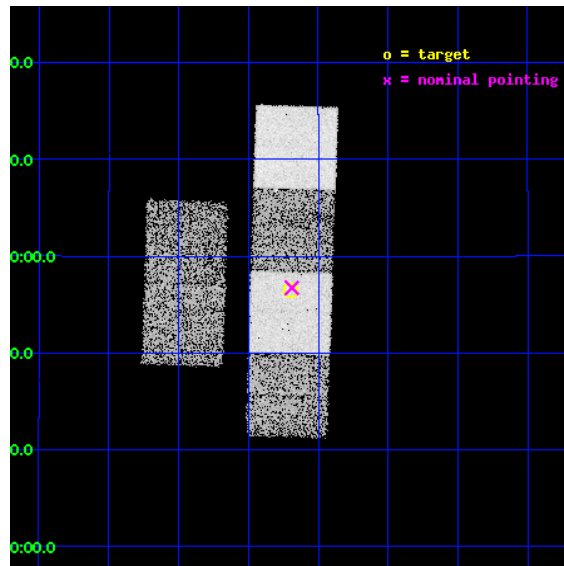
L2 Processing Date : May 10 2012

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

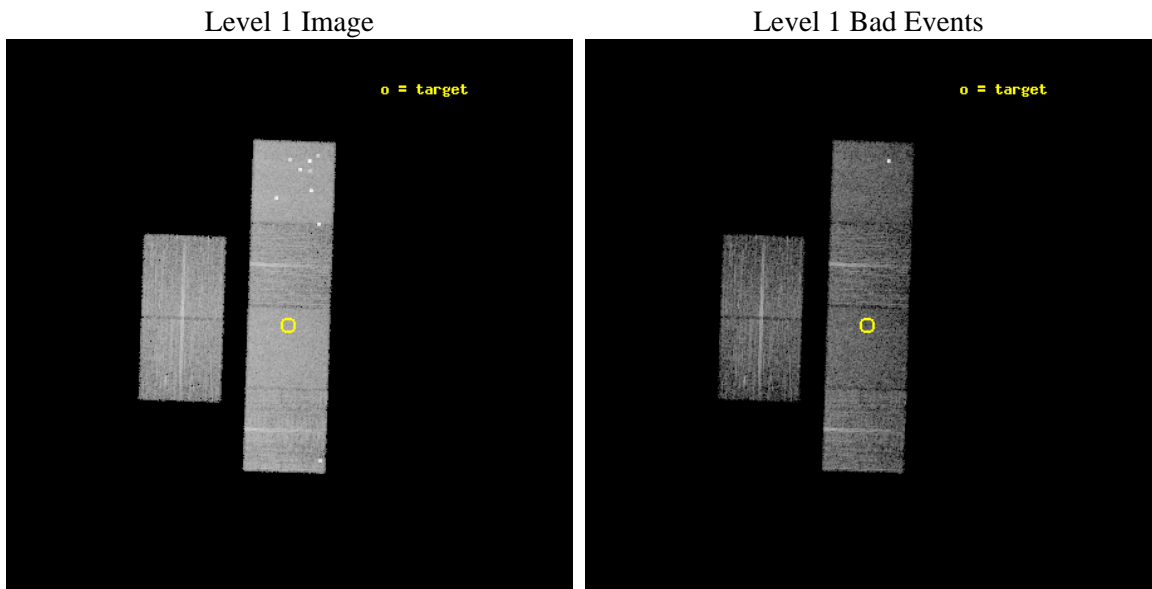
seq_num	900643	Sequence number
obs_id	8102	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1993	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.05	Observer's specified target RA [deg]
dec_targ	12.941694	Observer's specified target Dec [deg]
ra_nom	191.04725272357	Nominal RA [deg]
dec_nom	12.94562743775	Nominal Dec [deg]
roll_nom	91.841183414688	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.20258075	Sum of GTIs [s]
livetime	5092.8863137758	Livetime [s]
ontime2	5158.2436206341	Sum of GTIs [s]
ontime3	5158.0794607401	Sum of GTIs [s]
ontime5	5158.1615407467	Sum of GTIs [s]
ontime6	5158.1205007434	Sum of GTIs [s]
ontime7	5158.20258075	Sum of GTIs [s]
ontime8	5151.5563601255	Sum of GTIs [s]
l2events	82588	Number of level 2 events



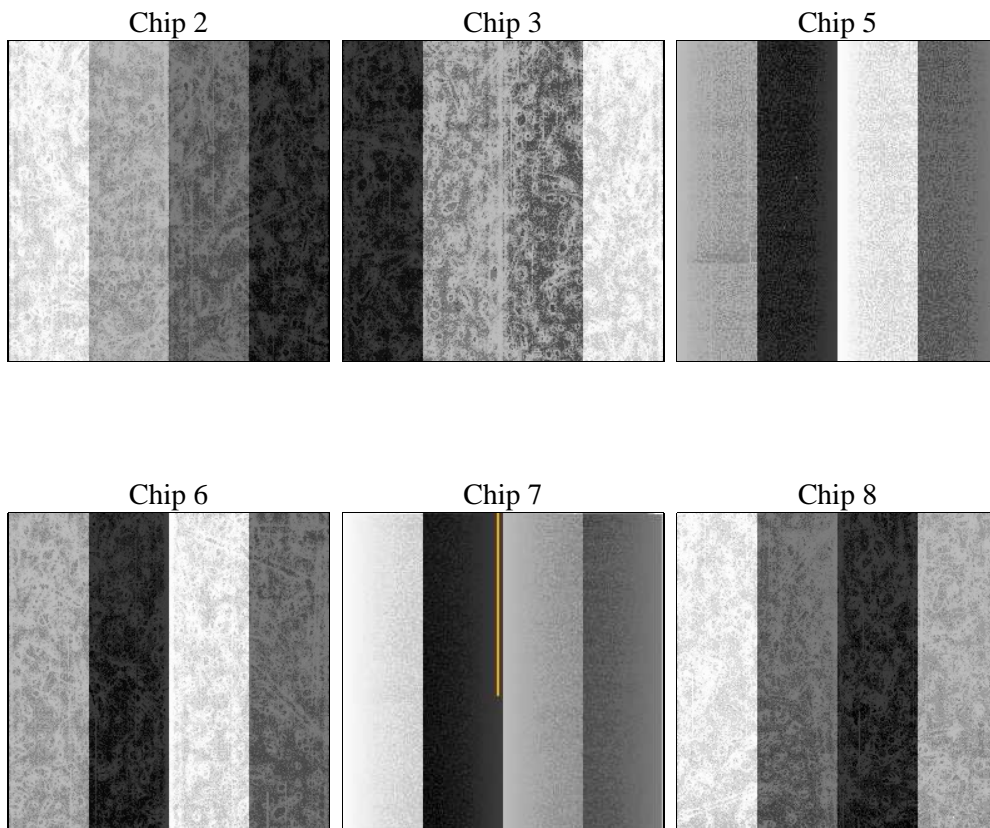
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.20258075	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.2436206341	Sum of GTIs [s]
date	2012-05-10T08:32:48	Date and time of file creation	ontime3	5158.0794607401	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.1615407467	Sum of GTIs [s]
			ontime6	5158.1205007434	Sum of GTIs [s]
			ontime7	5158.20258075	Sum of GTIs [s]
			ontime8	5151.5563601255	Sum of GTIs [s]
			l1events	377242	Number of level 1 events

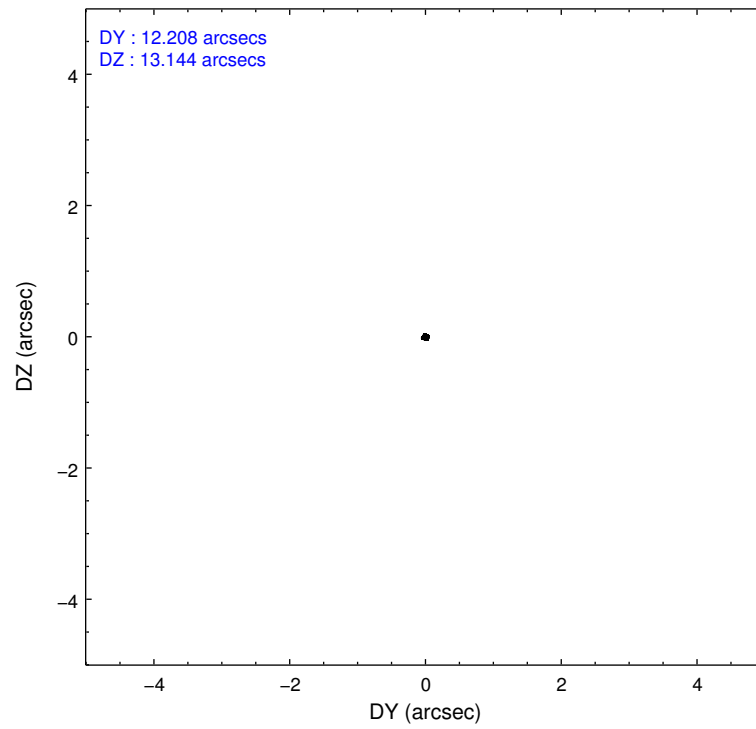
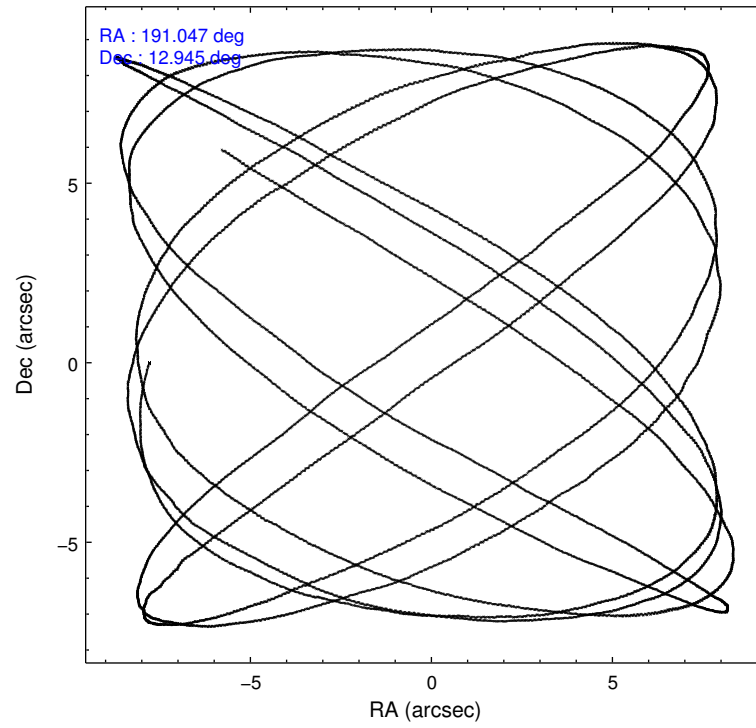
2.1.4 Events

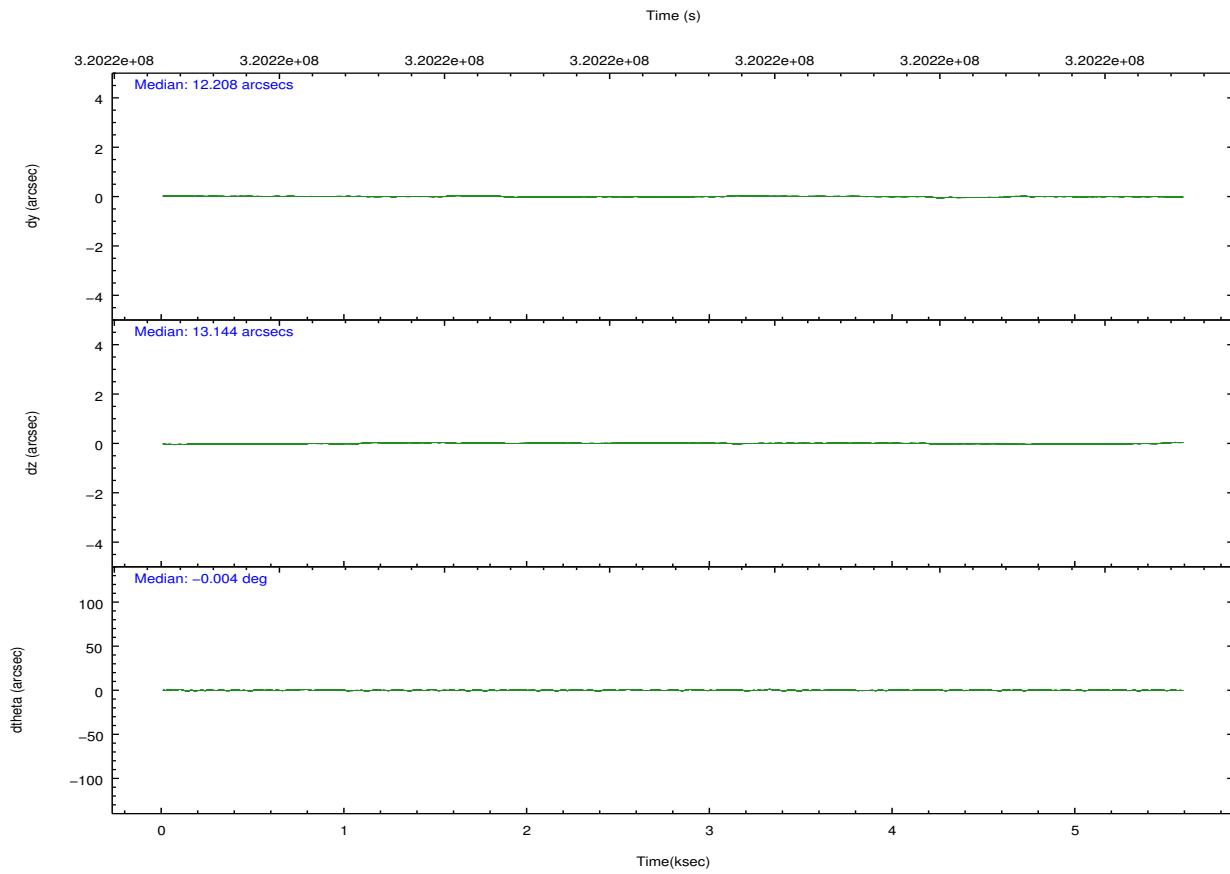
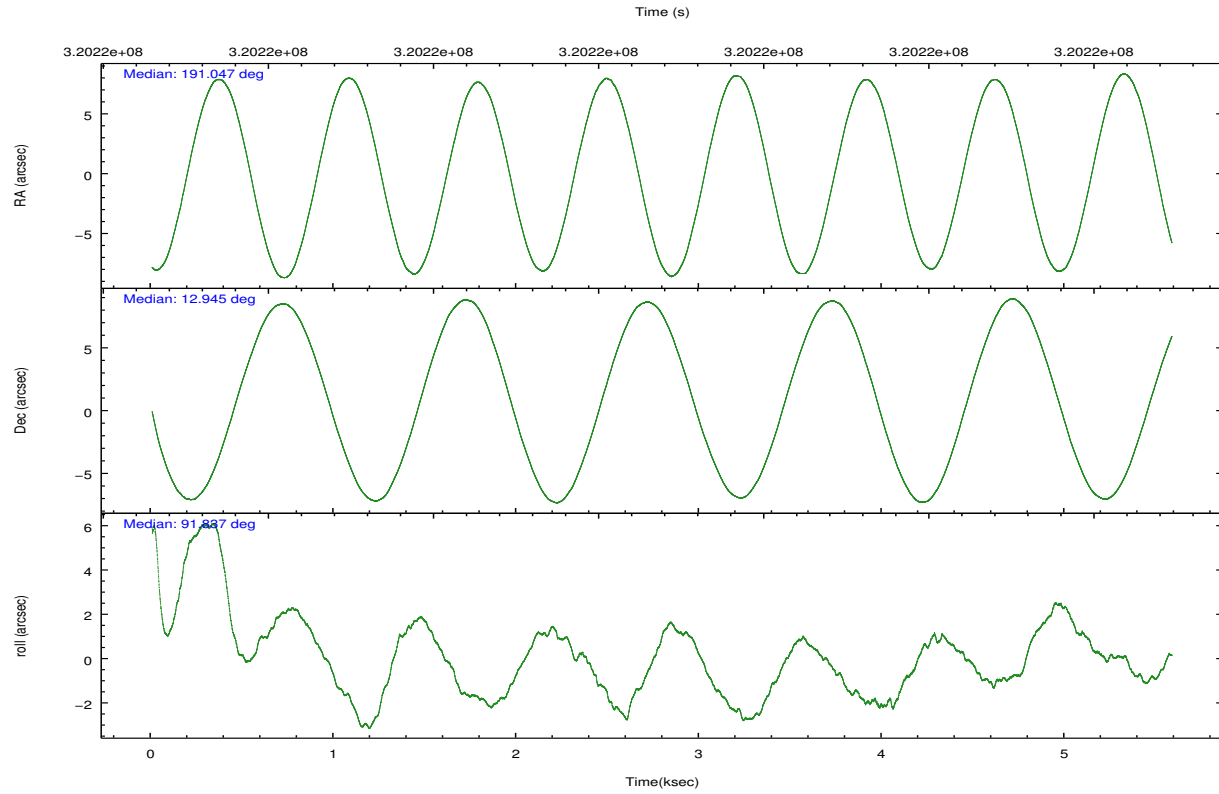
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51459	49855	85807	52071	69917	68133	grade 0 events	2342	2610	7604	2443	2377	5600
rejected events	45833	43918	43693	45831	41157	53222		4%	5%	8%	4%	3%	8%
rejected %	89%	88%	50%	88%	58%	78%	grade 1 events	36	30	108	29	64	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	1265	1162	11500	1423	5936	3136
								2%	2%	13%	2%	8%	4%
							grade 3 events	528	563	1412	561	2349	1431
								1%	1%	1%	1%	3%	2%
							grade 4 events	521	614	1201	541	2407	1363
								1%	1%	1%	1%	3%	2%
							grade 5 events	2021	2350	5258	2343	6413	3050
								3%	4%	6%	4%	9%	4%
							grade 6 events	973	999	20427	1274	15709	3402
								1%	2%	23%	2%	22%	4%
							grade 7 events	43773	41527	38297	43457	34662	50084
								85%	83%	44%	83%	49%	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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	191.062375	191.0472527235725	CCD I2 on	O1	Y
[deg] Pointing Dec	12.922705	12.94562743775027	CCD I3 on	O2	Y
[deg] Pointing Roll	91.681163	91.84118341468837	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	320215775.184000	320215254.54245	CCD S5 on	N	N
Observation start date	2008-02-24T04:48:30	2008-02-24T04:40:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320221175.184000	320221312.80524	On-chip summing requested	N	N
Observation end date	2008-02-24T06:18:30	2008-02-24T06:21:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



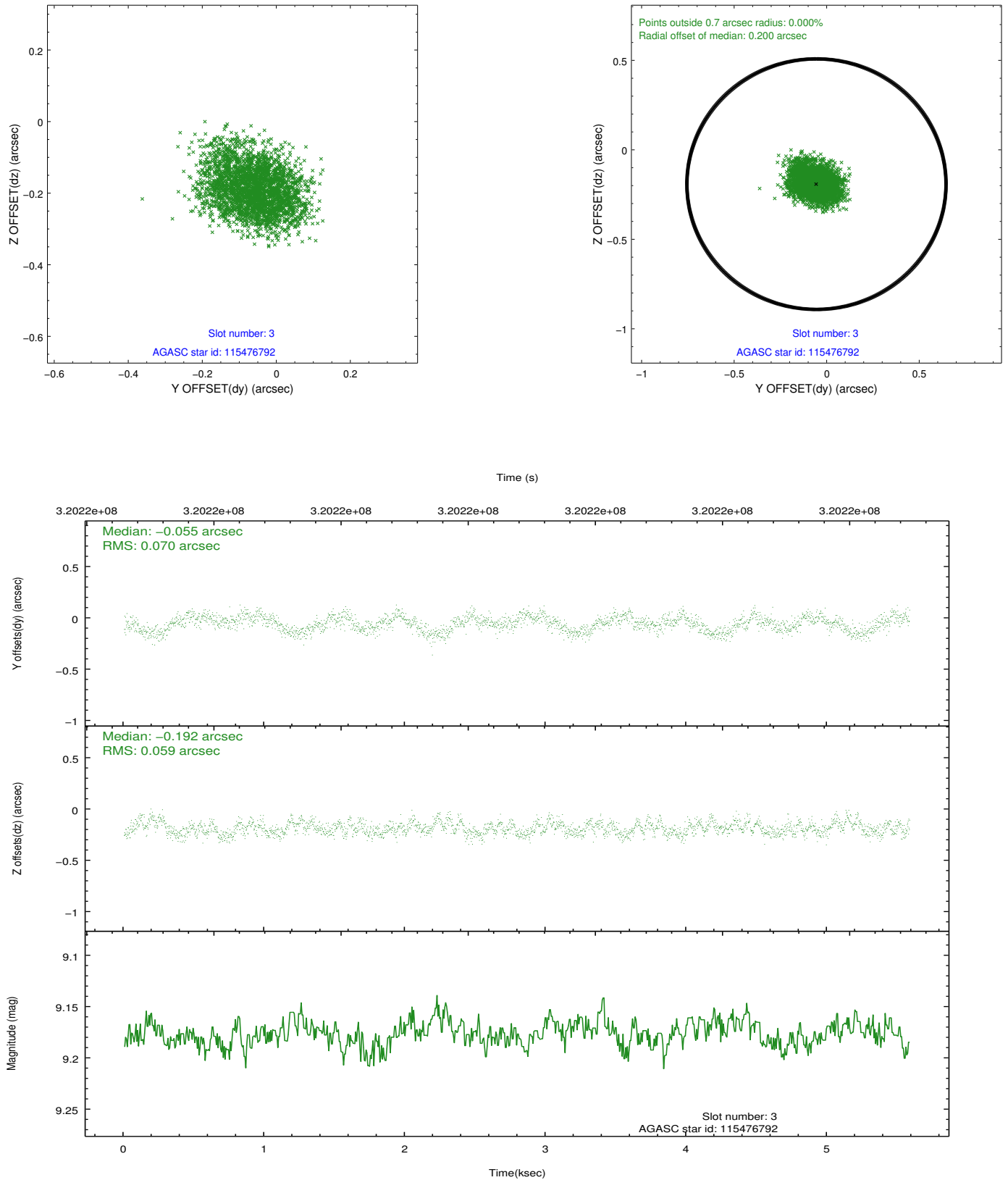


Slot Statistics

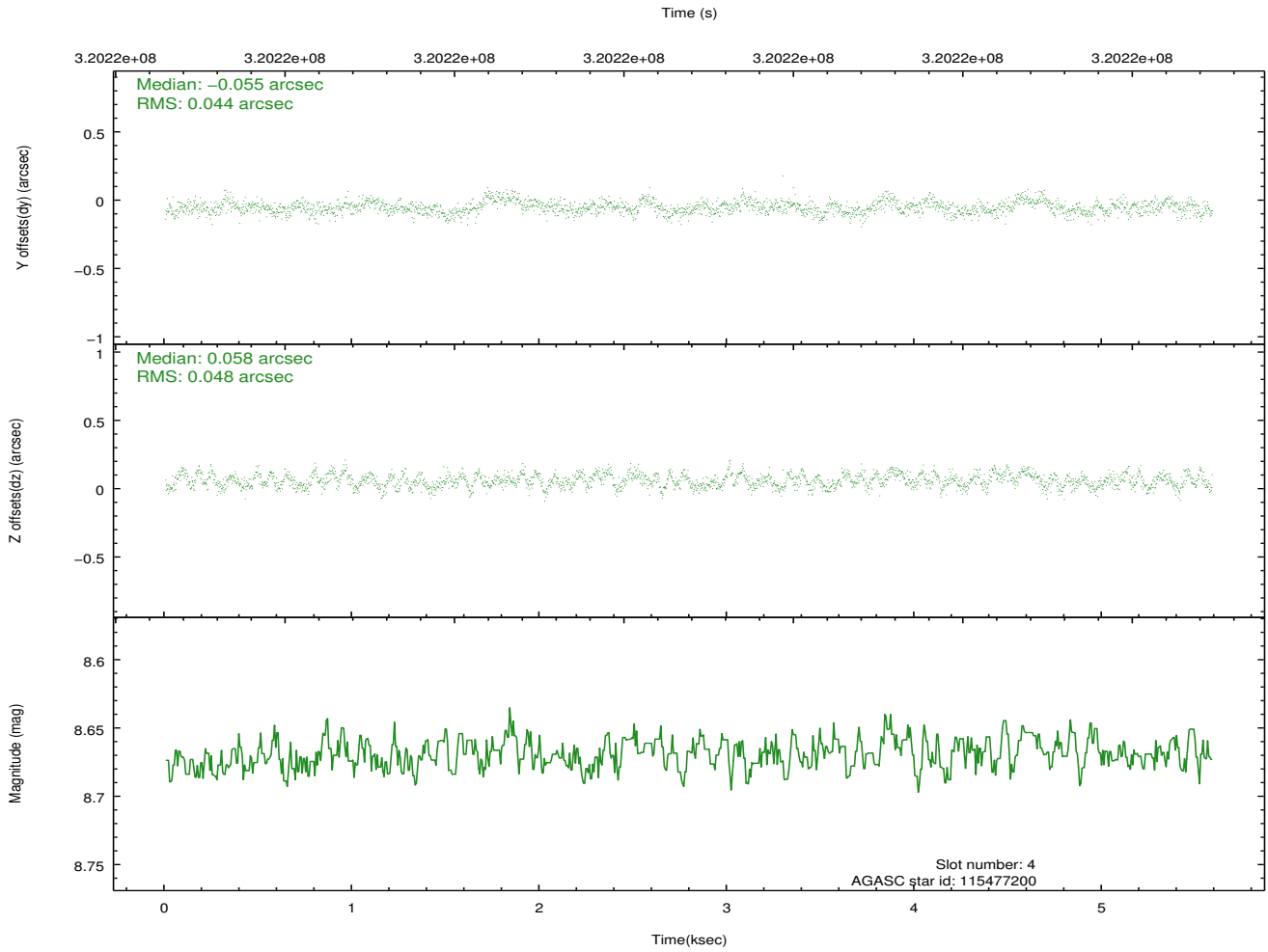
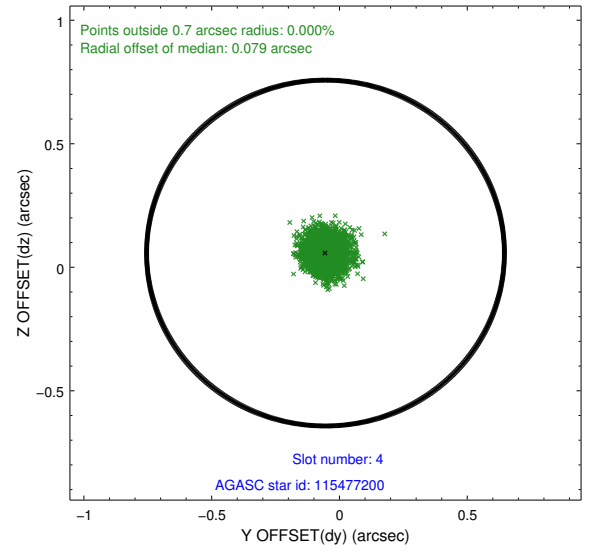
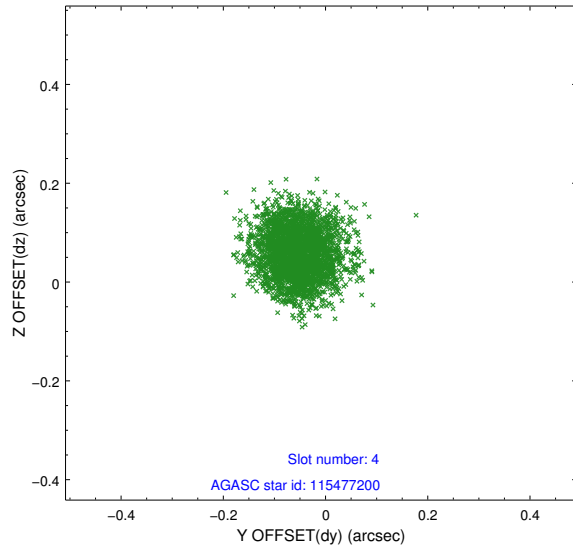
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.023	-0.049	0.006	0.011	0.000000	0.000000	-765.13	-1734.52
1	FID	ACIS-S-4	7.20	1362	0.115	0.024	0.005	0.010	0.000000	0.000000	2147.80	172.92
2	FID	ACIS-S-5	7.23	1362	-0.123	0.034	0.007	0.011	0.000000	0.000000	-1816.69	167.83
3	GUIDE	115476792	9.18	2724	-0.055	-0.192	0.099	0.155	190.933104	13.143247	807.54	429.61
4	GUIDE	115477200	8.67	2723	-0.055	0.058	0.069	0.110	191.140191	13.348570	1525.33	-316.96
5	GUIDE	115477424	9.24	2714	0.087	-0.095	0.089	0.149	190.783230	12.743104	-615.83	998.62
6	GUIDE	115477912	8.22	2723	-0.162	0.086	0.068	0.112	191.480423	13.583124	2335.37	-1531.15
7	GUIDE	116393344	9.55	2721	0.185	0.139	0.108	0.170	191.543167	12.585826	-1258.44	-1653.27

2.4 Star Slots

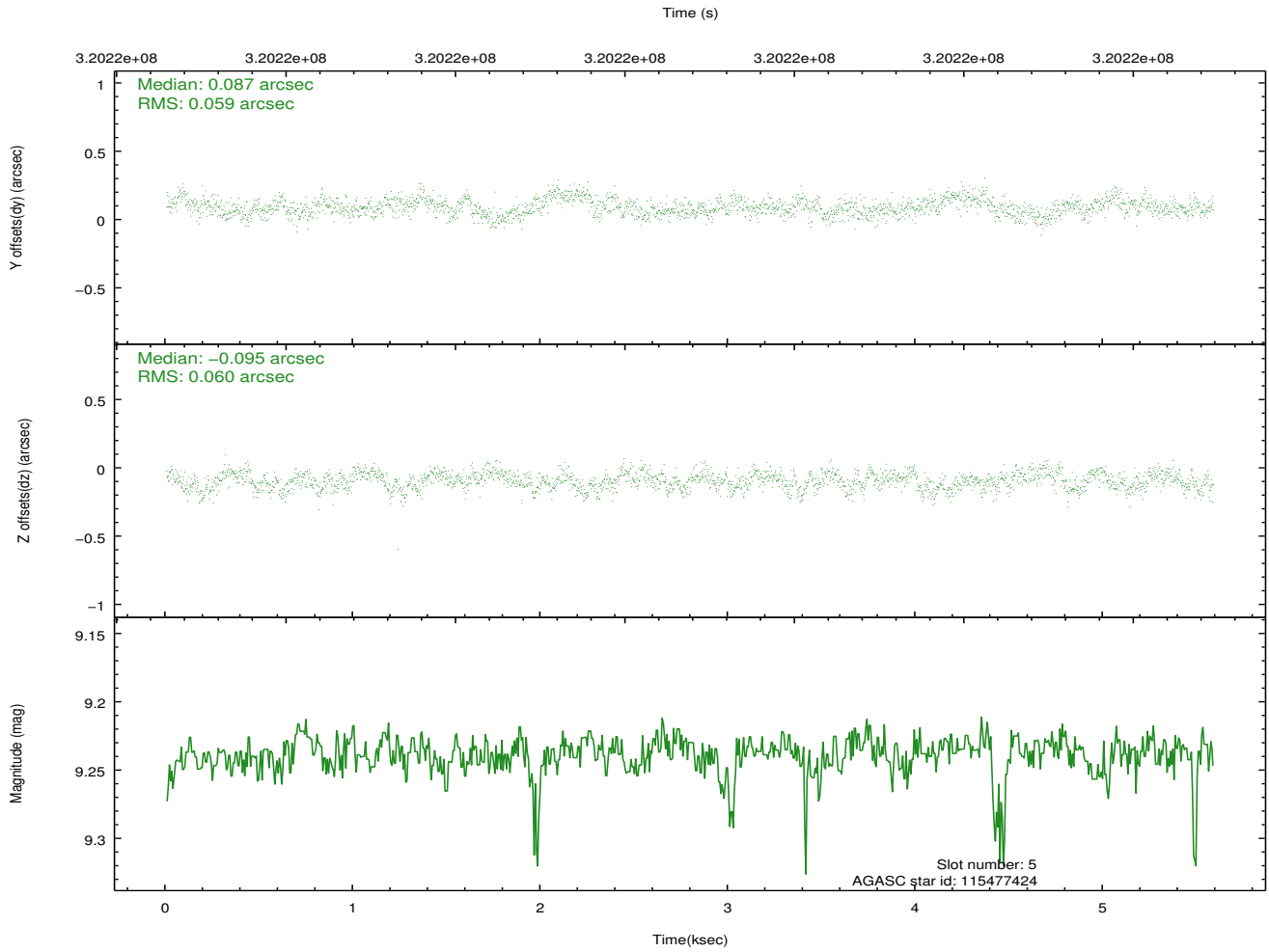
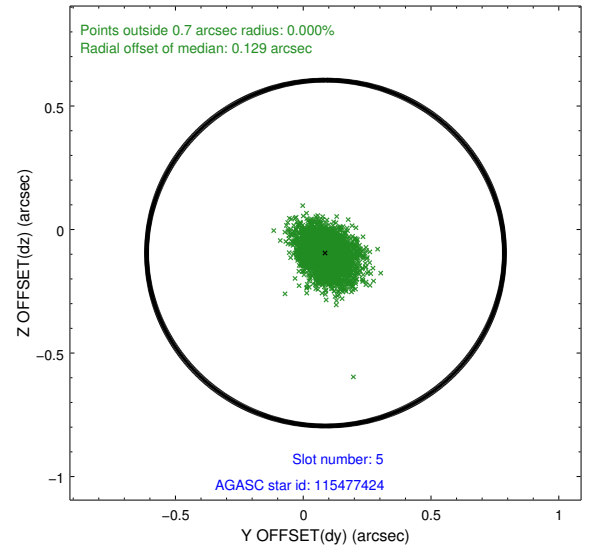
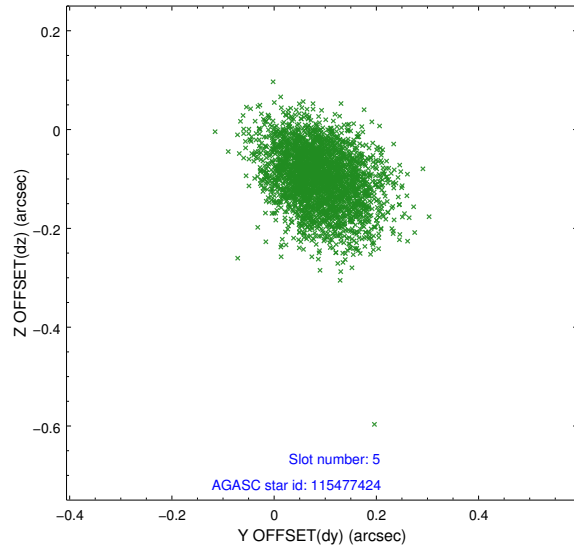
2.4.1 Slot 3



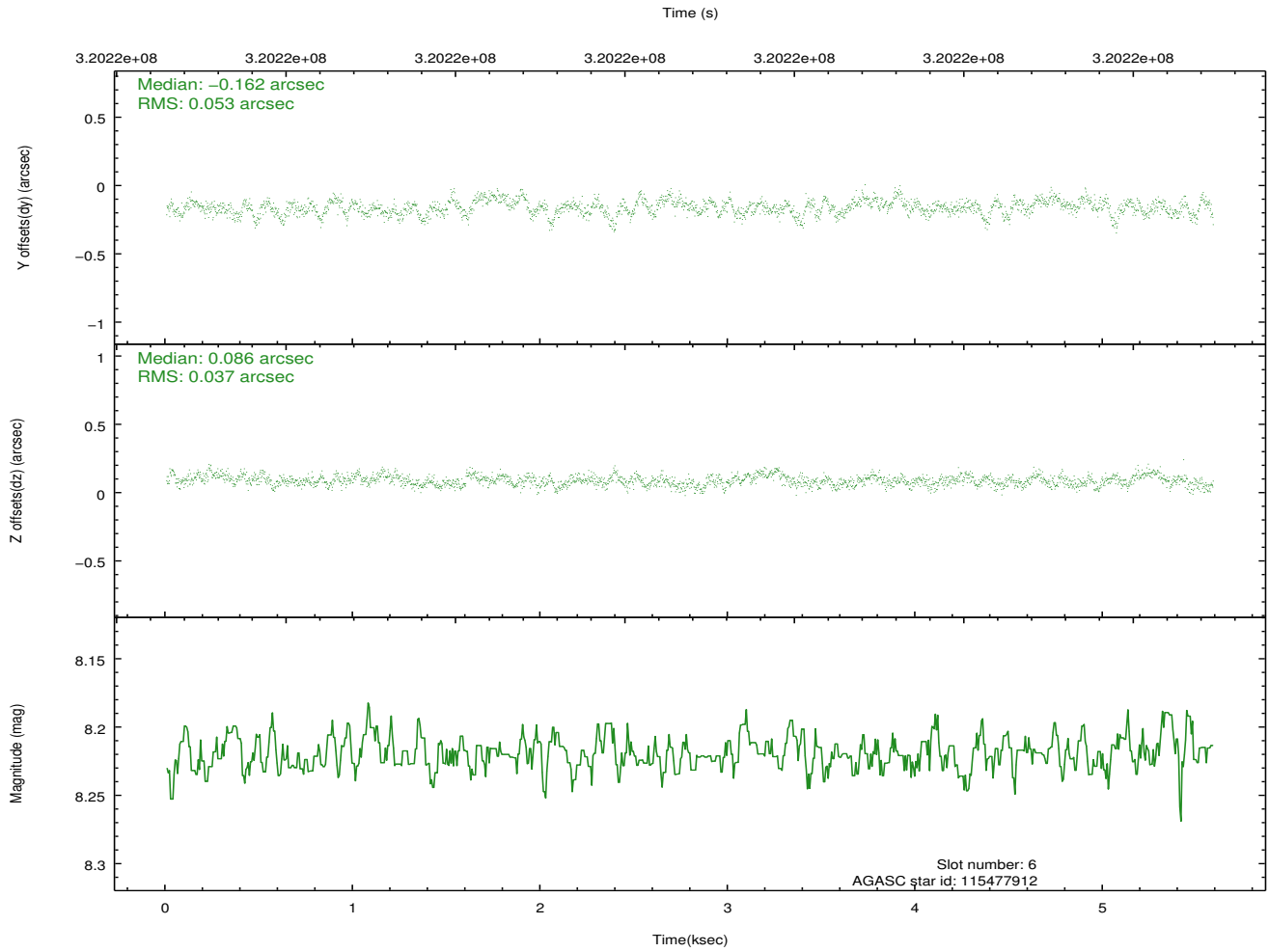
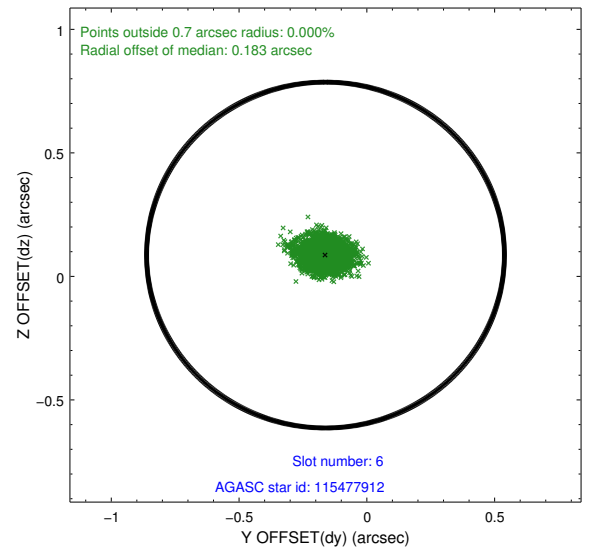
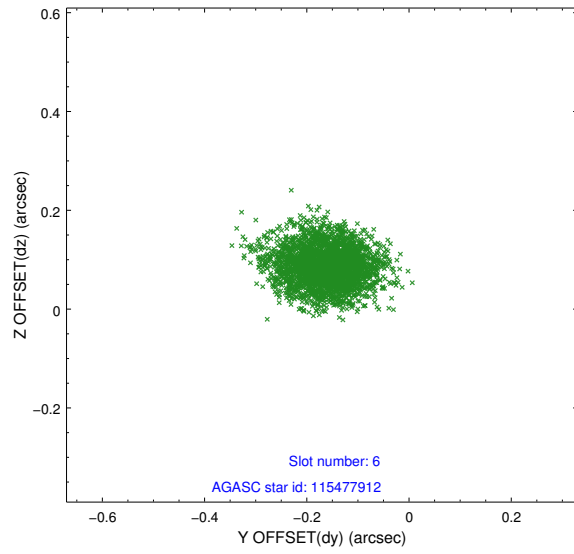
2.4.2 Slot 4



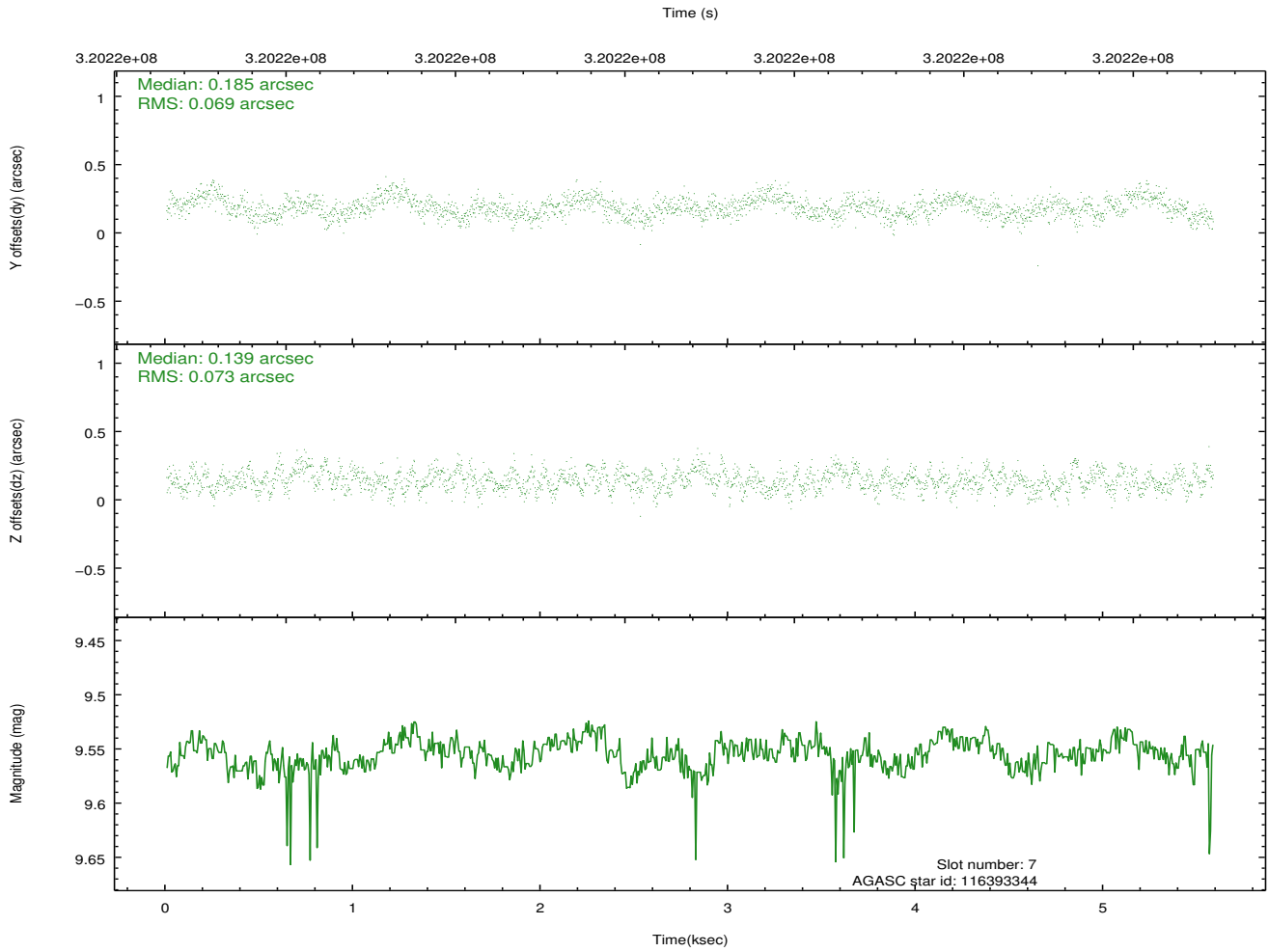
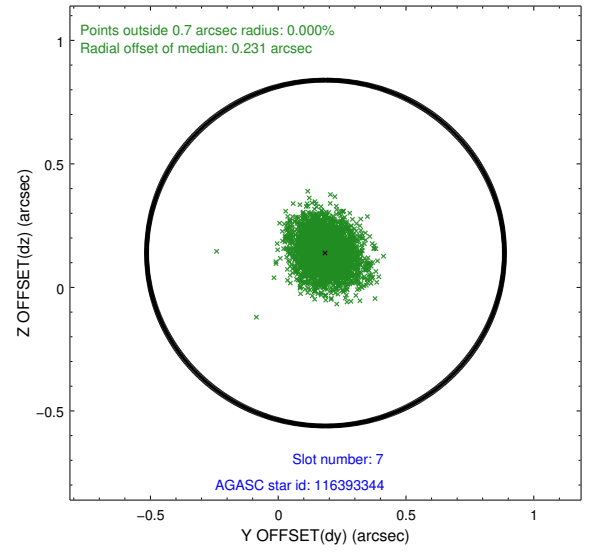
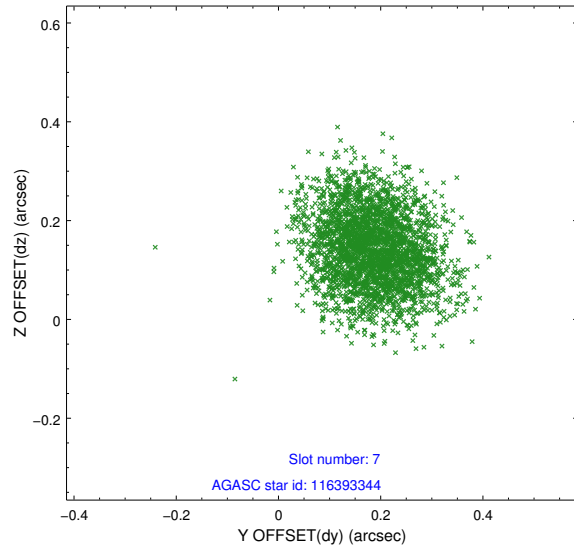
2.4.3 Slot 5



2.4.4 Slot 6

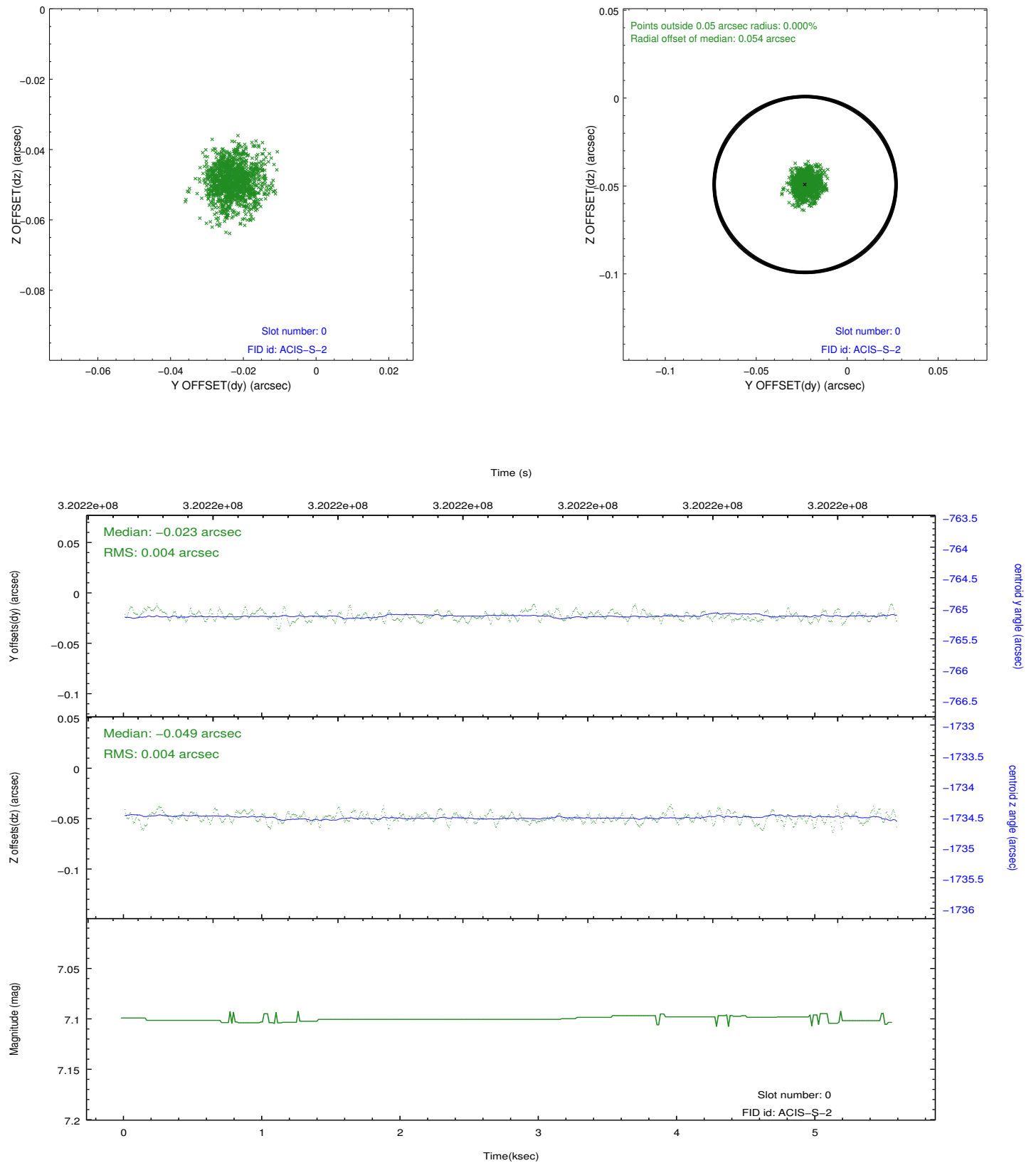


2.4.5 Slot 7

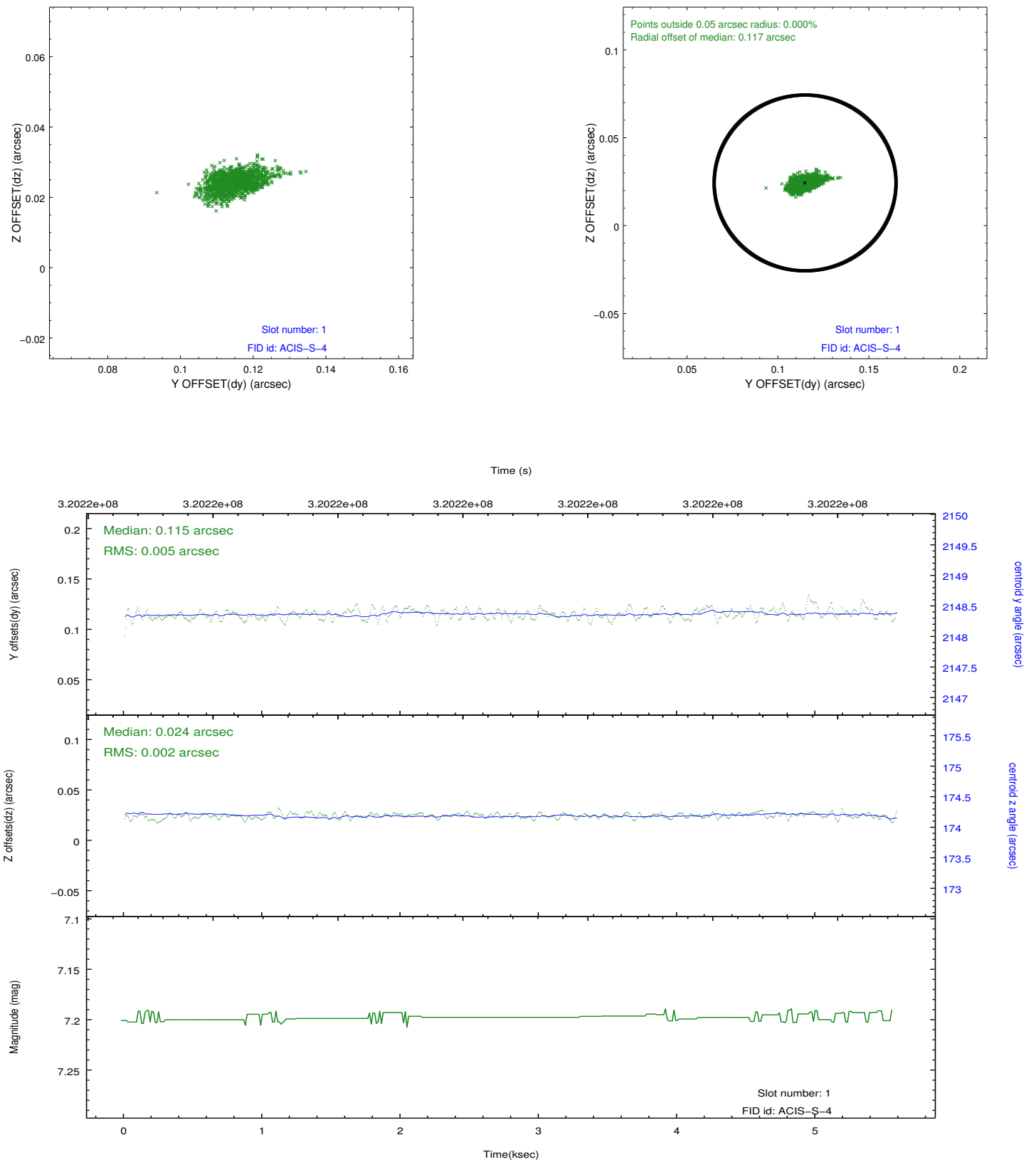


2.5 FID Slots

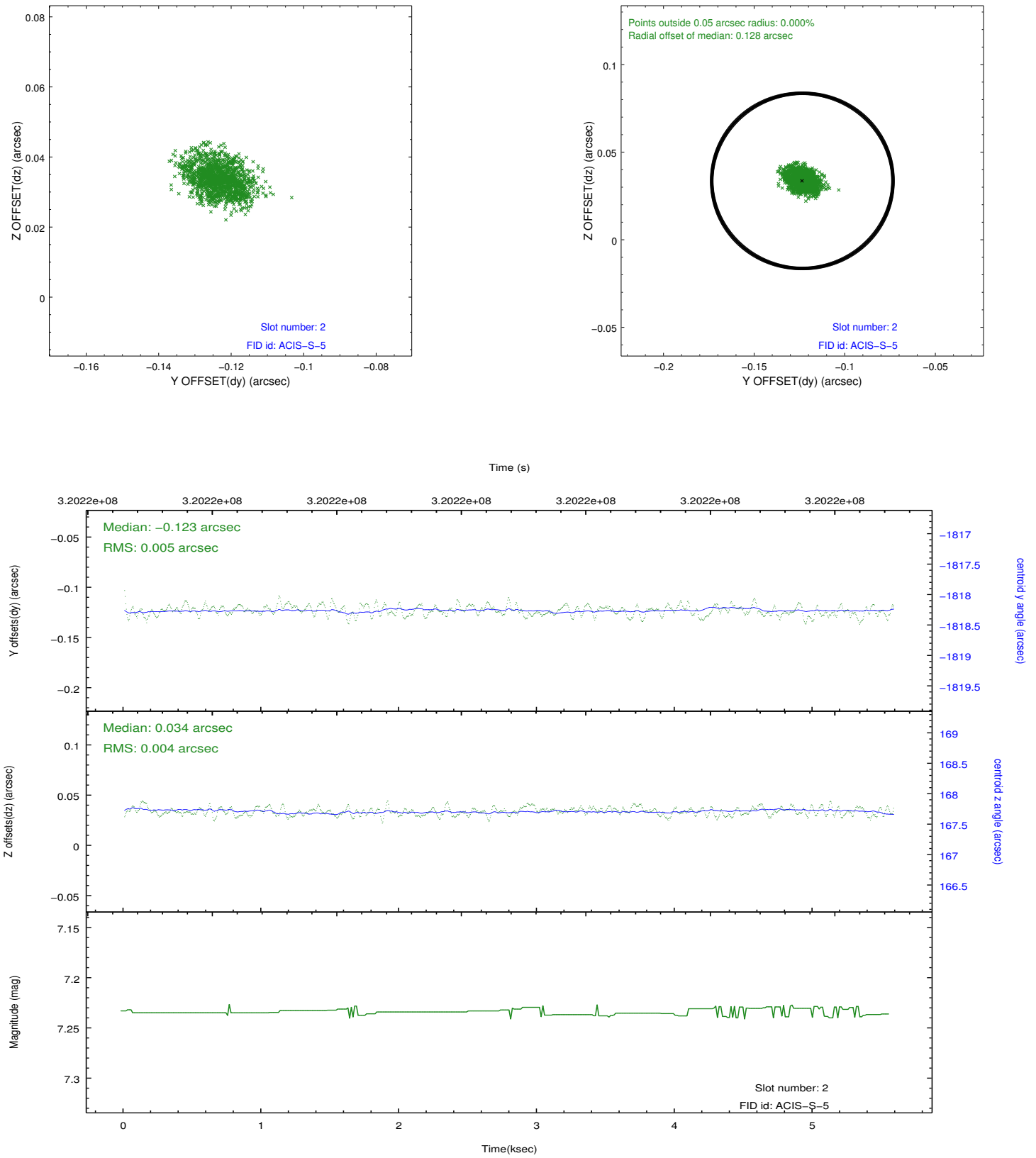
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer