

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8037 - L2 Version 2
Chandra X-Ray Center

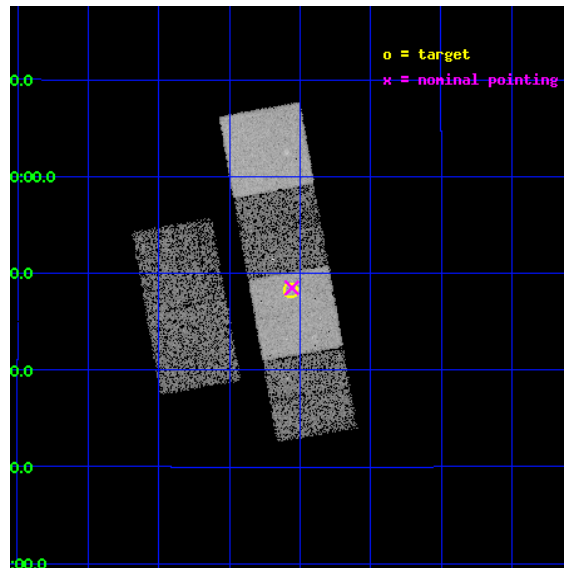
L2 Processing Date : May 9 2012

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

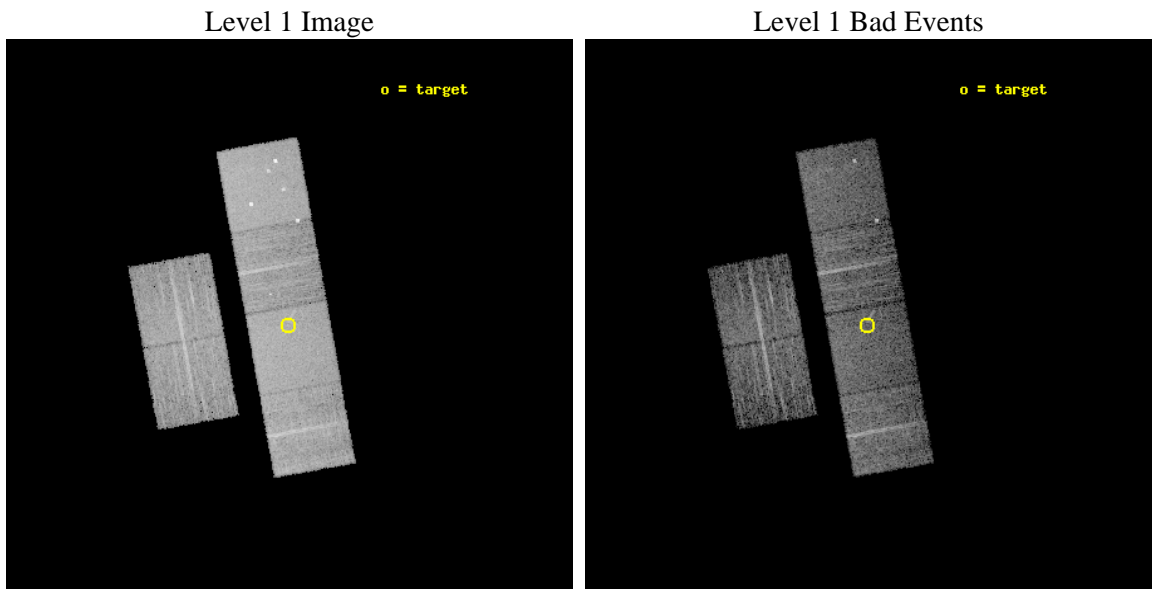
seq_num	900578	Sequence number
obs_id	8037	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1062	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.01625	Observer's specified target RA [deg]
dec_targ	9.803889	Observer's specified target Dec [deg]
ra_nom	187.01435049058	Nominal RA [deg]
dec_nom	9.8083233478784	Nominal Dec [deg]
roll_nom	79.77609314798	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5372.7999800444	Sum of GTIs [s]
livetime	5304.7663515853	Livetime [s]
ontime2	5372.7999800444	Sum of GTIs [s]
ontime3	5372.7999800444	Sum of GTIs [s]
ontime5	5372.7999800444	Sum of GTIs [s]
ontime6	5372.7999800444	Sum of GTIs [s]
ontime7	5372.7999800444	Sum of GTIs [s]
ontime8	5372.7999800444	Sum of GTIs [s]
l2events	86481	Number of level 2 events



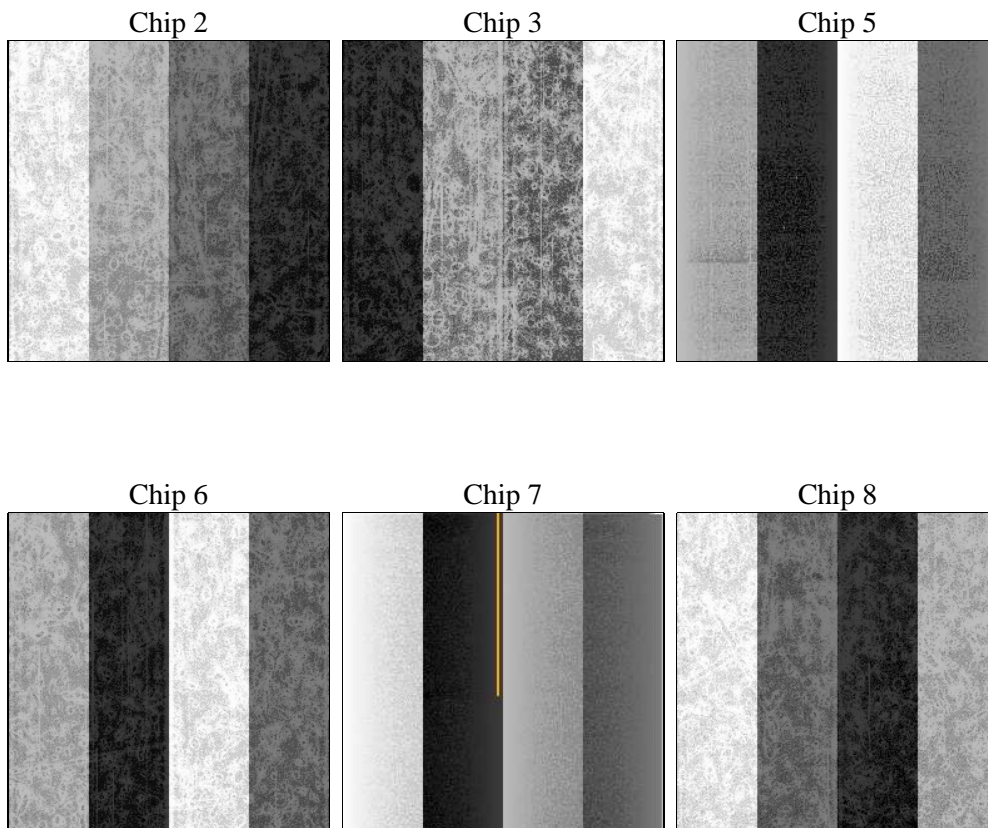
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5372.7999800444	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5372.7999800444	Sum of GTIs [s]
date	2012-05-09T18:08:13	Date and time of file creation	ontime3	5372.7999800444	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5372.7999800444	Sum of GTIs [s]
			ontime6	5372.7999800444	Sum of GTIs [s]
			ontime7	5372.7999800444	Sum of GTIs [s]
			ontime8	5372.7999800444	Sum of GTIs [s]
			l1events	374487	Number of level 1 events

2.1.4 Events

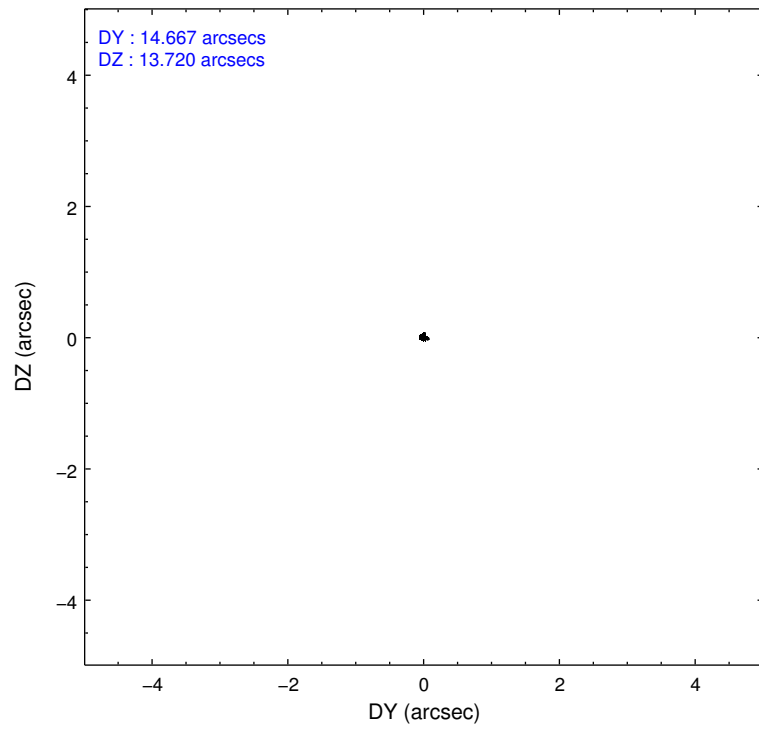
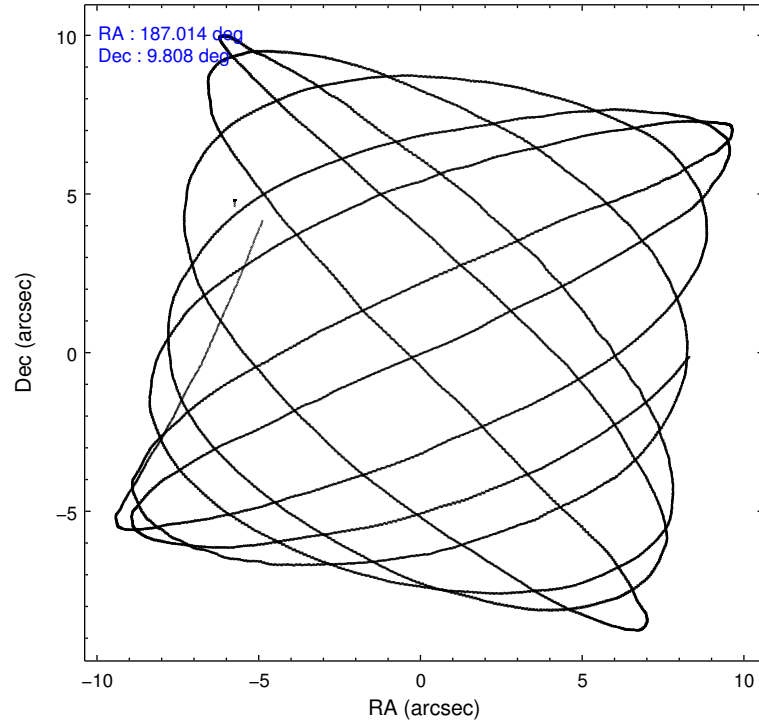
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	53473	49689	82345	52285	71631	65064
rejected events	47345	43154	43487	45555	41942	50194
rejected %	88%	86%	52%	87%	58%	77%

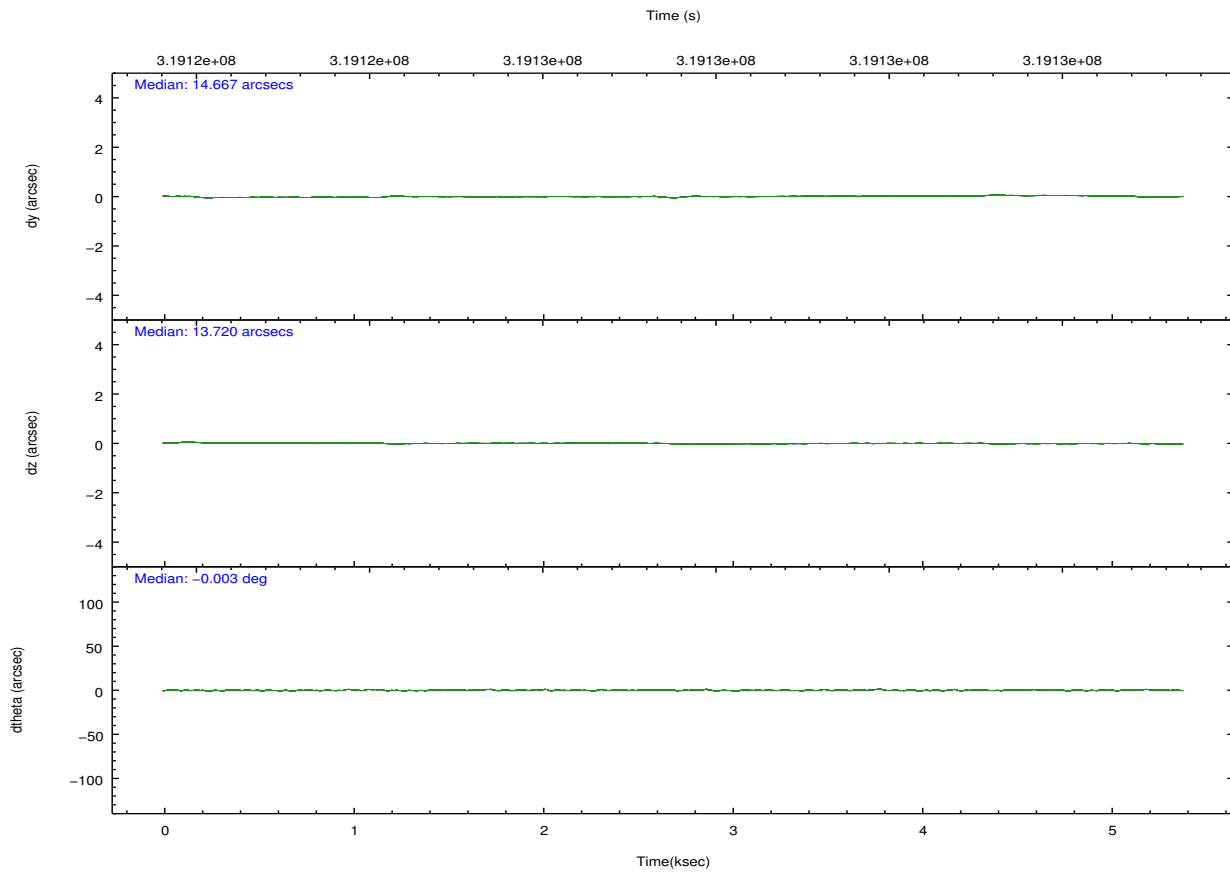
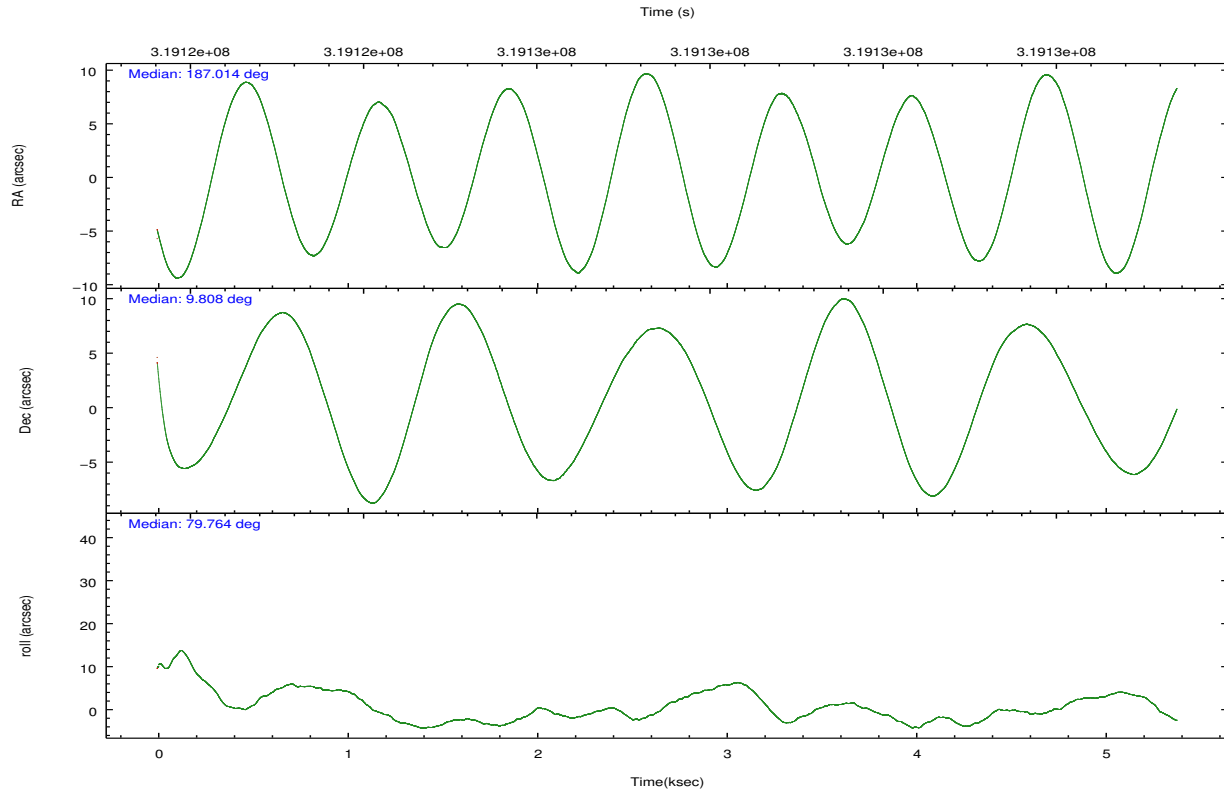
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2660	2942	5100	2910	2704	4803
	4%	5%	6%	5%	3%	7%
grade 1 events	40	29	819	29	74	42
	0%	0%	0%	0%	0%	0%
grade 2 events	1311	1257	11816	1447	5979	3300
	2%	2%	14%	2%	8%	5%
grade 3 events	580	589	1279	557	2596	1418
	1%	1%	1%	1%	3%	2%
grade 4 events	575	665	1287	573	2440	1412
	1%	1%	1%	1%	3%	2%
grade 5 events	2024	2344	5424	2394	6501	3111
	3%	4%	6%	4%	9%	4%
grade 6 events	1020	1104	19473	1259	16050	3960
	1%	2%	23%	2%	22%	6%
grade 7 events	45263	40759	37147	43116	35287	47018
	84%	82%	45%	82%	49%	72%

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	187.024191	187.0143504905803	CCD I2 on	O1	Y
[deg] Pointing Dec	9.782798	9.808323347878405	CCD I3 on	O2	Y
[deg] Pointing Roll	79.617783	79.77609314797961	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	319124237.184000	319123162.08944	CCD S5 on	N	N
Observation start date	2008-02-11T13:36:12	2008-02-11T13:19:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319129437.184000	319129622.15225	On-chip summing requested	N	N
Observation end date	2008-02-11T15:02:52	2008-02-11T15:07:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



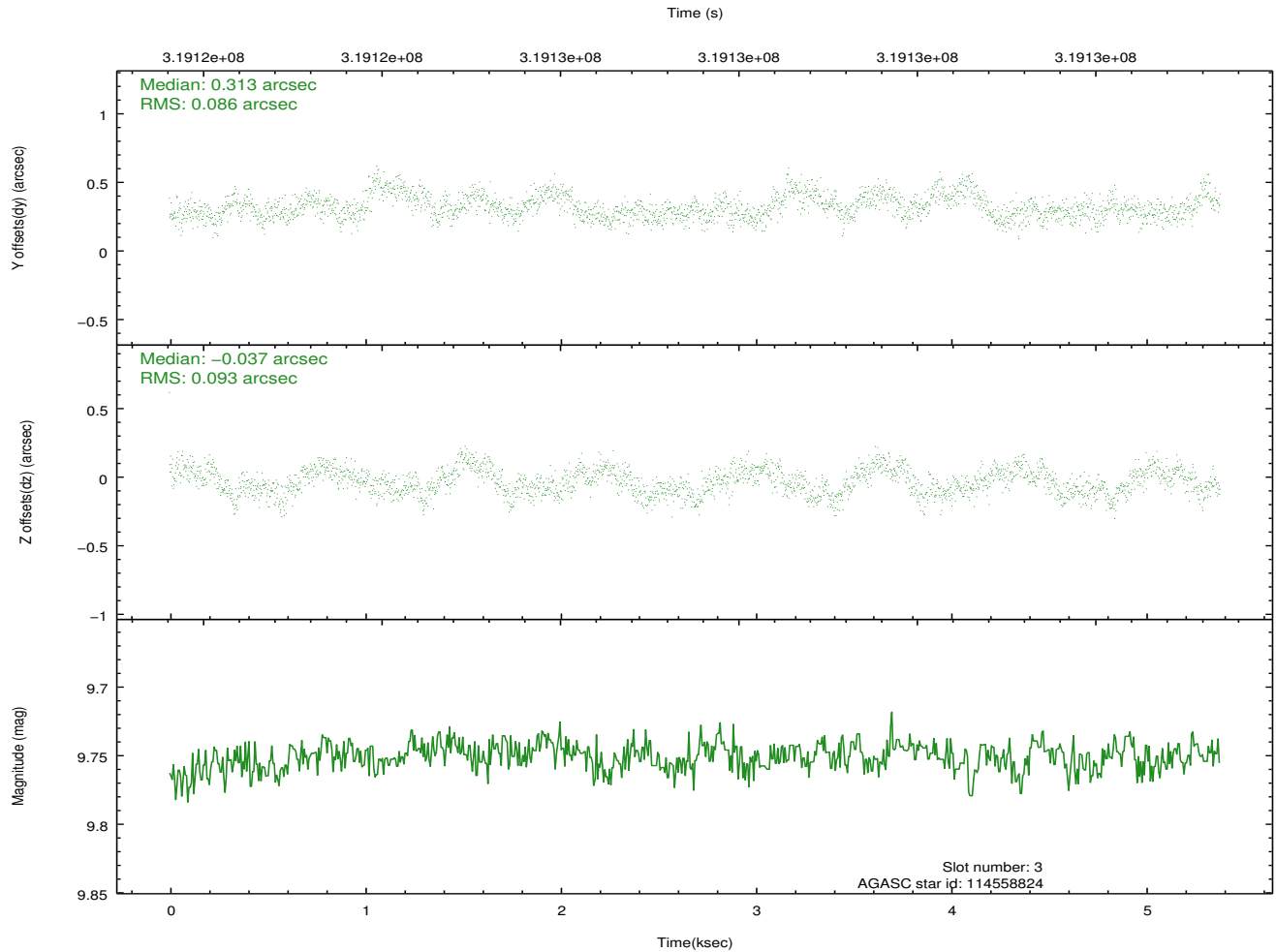
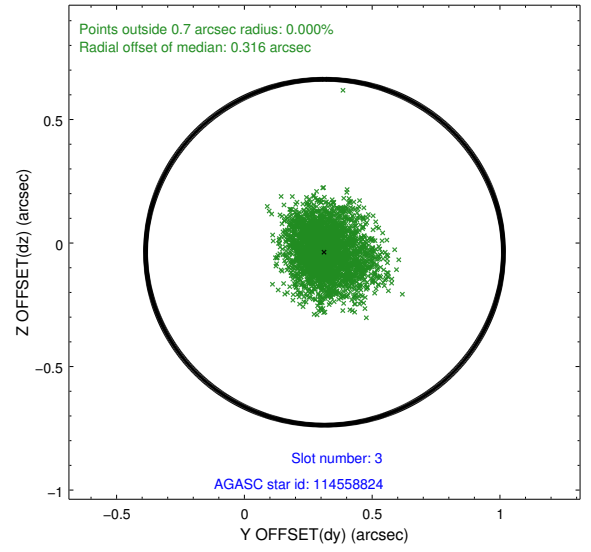
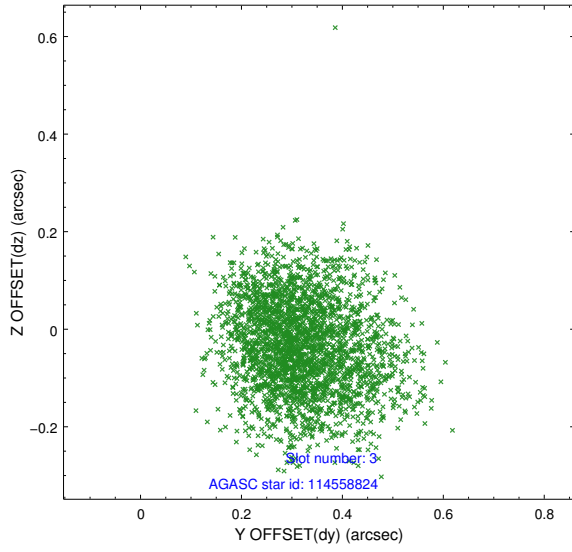


Slot Statistics

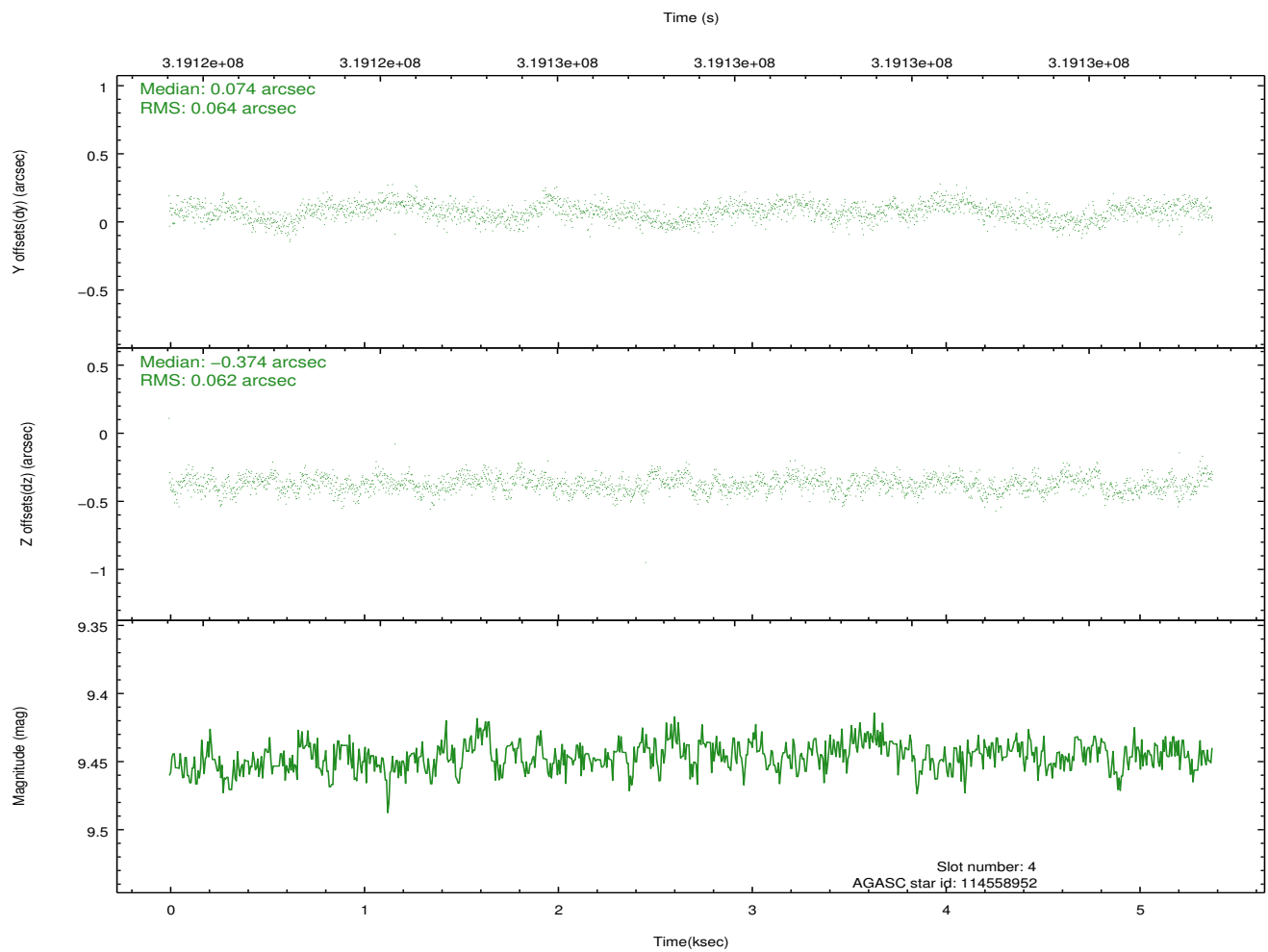
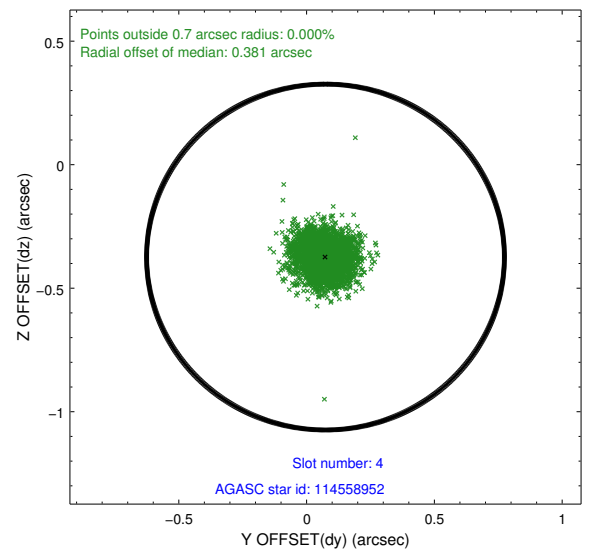
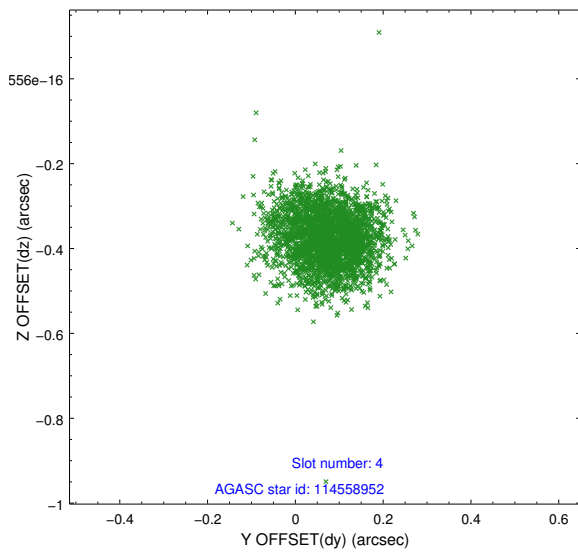
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1313	-0.129	-0.086	0.005	0.008	0.000000	0.000000	-767.79	-1735.09
1	FID	ACIS-S-4	7.19	1312	0.129	0.072	0.005	0.008	0.000000	0.000000	2145.27	172.34
2	FID	ACIS-S-6	7.34	1313	-0.028	0.021	0.006	0.010	0.000000	0.000000	395.77	810.99
3	GUIDE	114558824	9.75	2623	0.313	-0.037	0.137	0.215	187.023305	9.331255	-1598.92	-290.17
4	GUIDE	114558952	9.45	2622	0.074	-0.374	0.094	0.150	186.929093	9.345397	-1609.87	48.01
5	GUIDE	114953520	10.67	2615	0.209	-0.804	0.254	0.411	186.536180	10.250141	1344.15	2003.74
6	GUIDE	114951824	9.74	2619	-0.482	1.056	0.155	0.260	187.810084	10.327889	2436.07	-2381.09
7	GUIDE	114557536	10.05	2618	-0.112	0.171	0.185	0.280	187.561684	9.020598	-2351.56	-2375.06

2.4 Star Slots

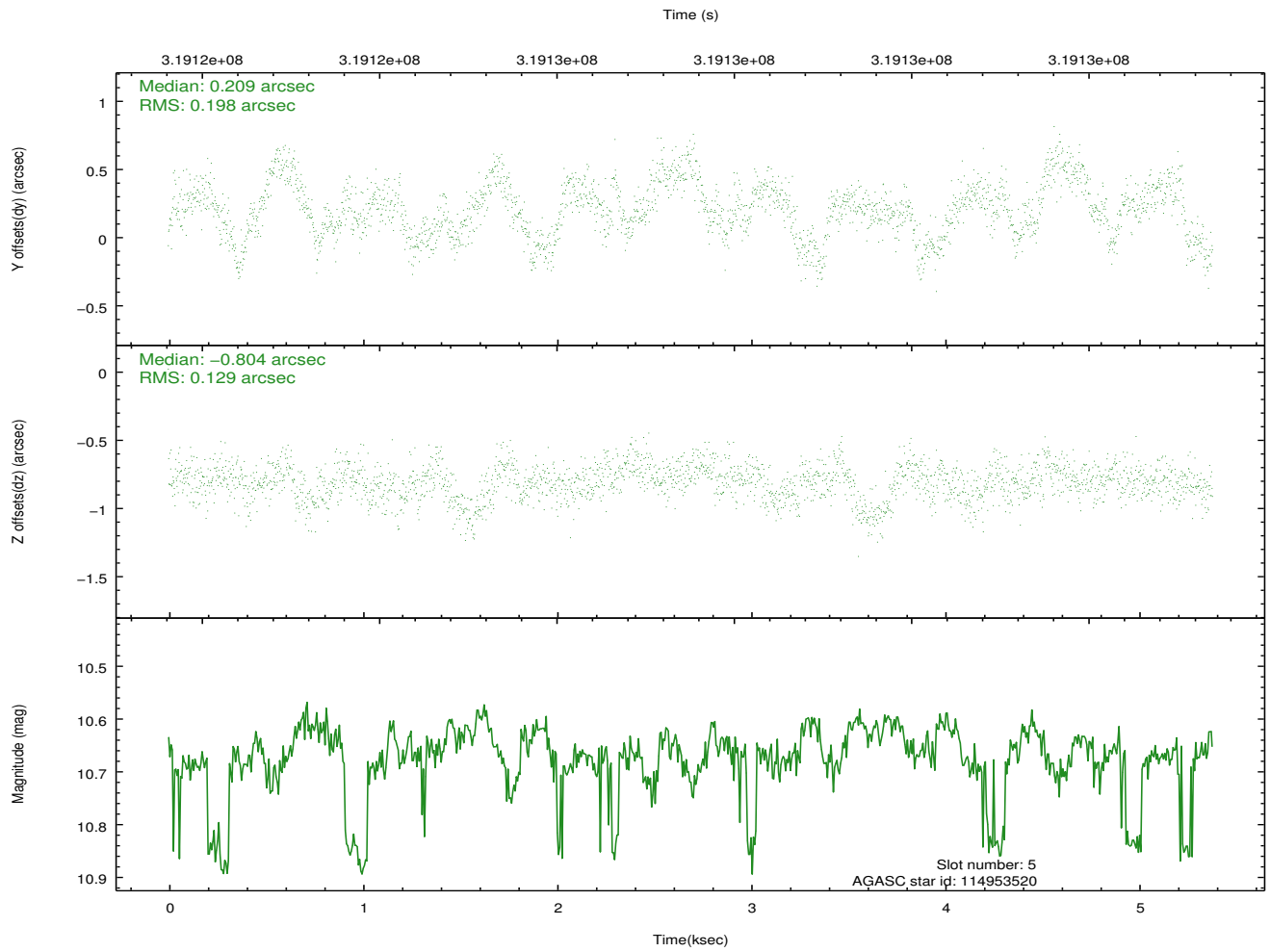
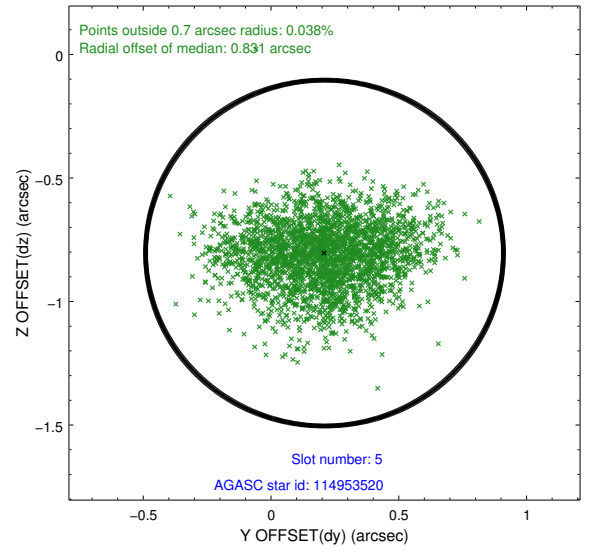
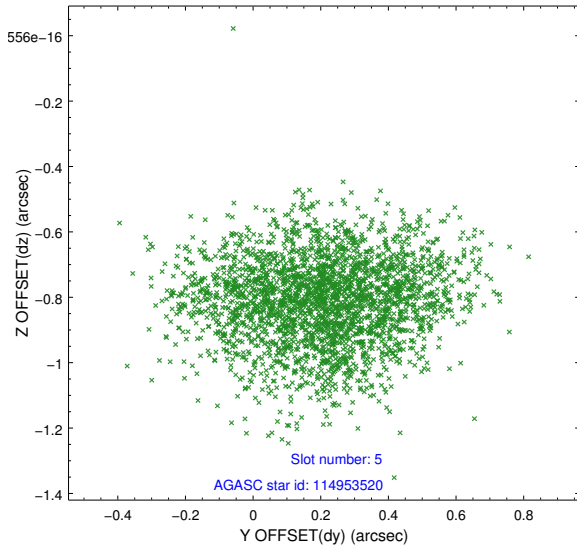
2.4.1 Slot 3



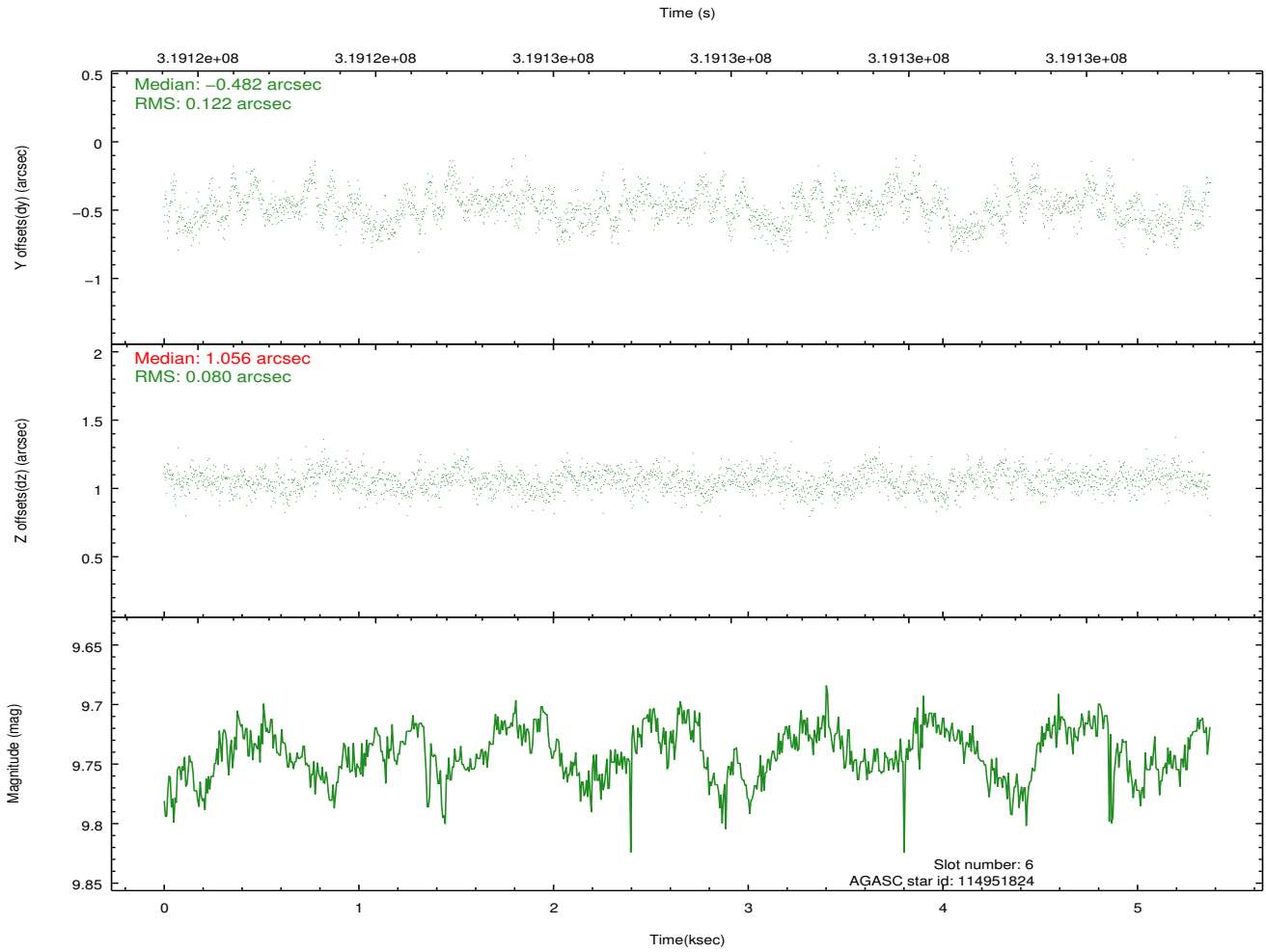
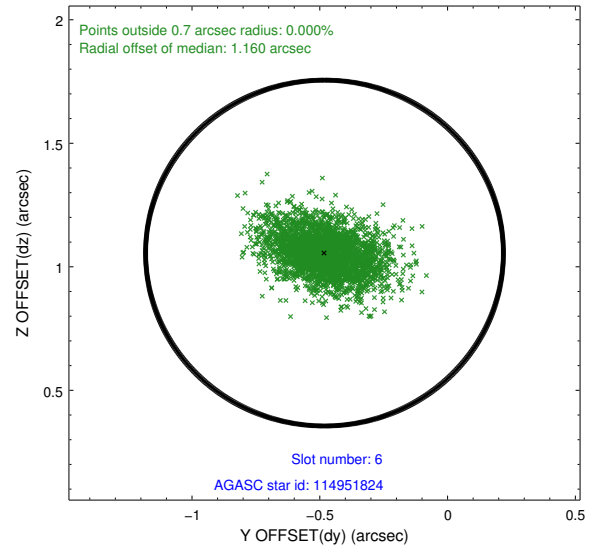
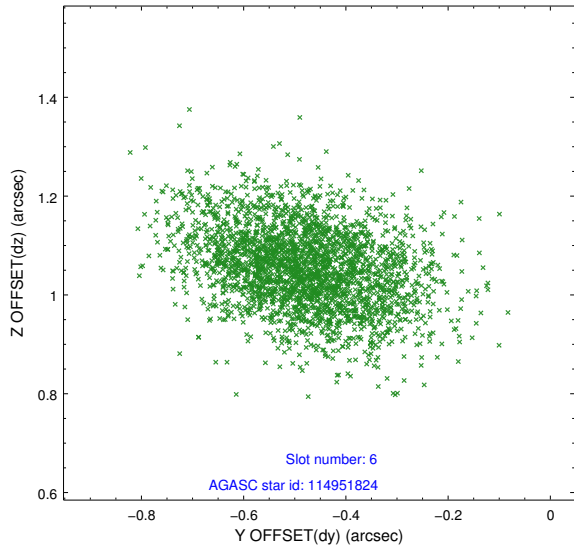
2.4.2 Slot 4



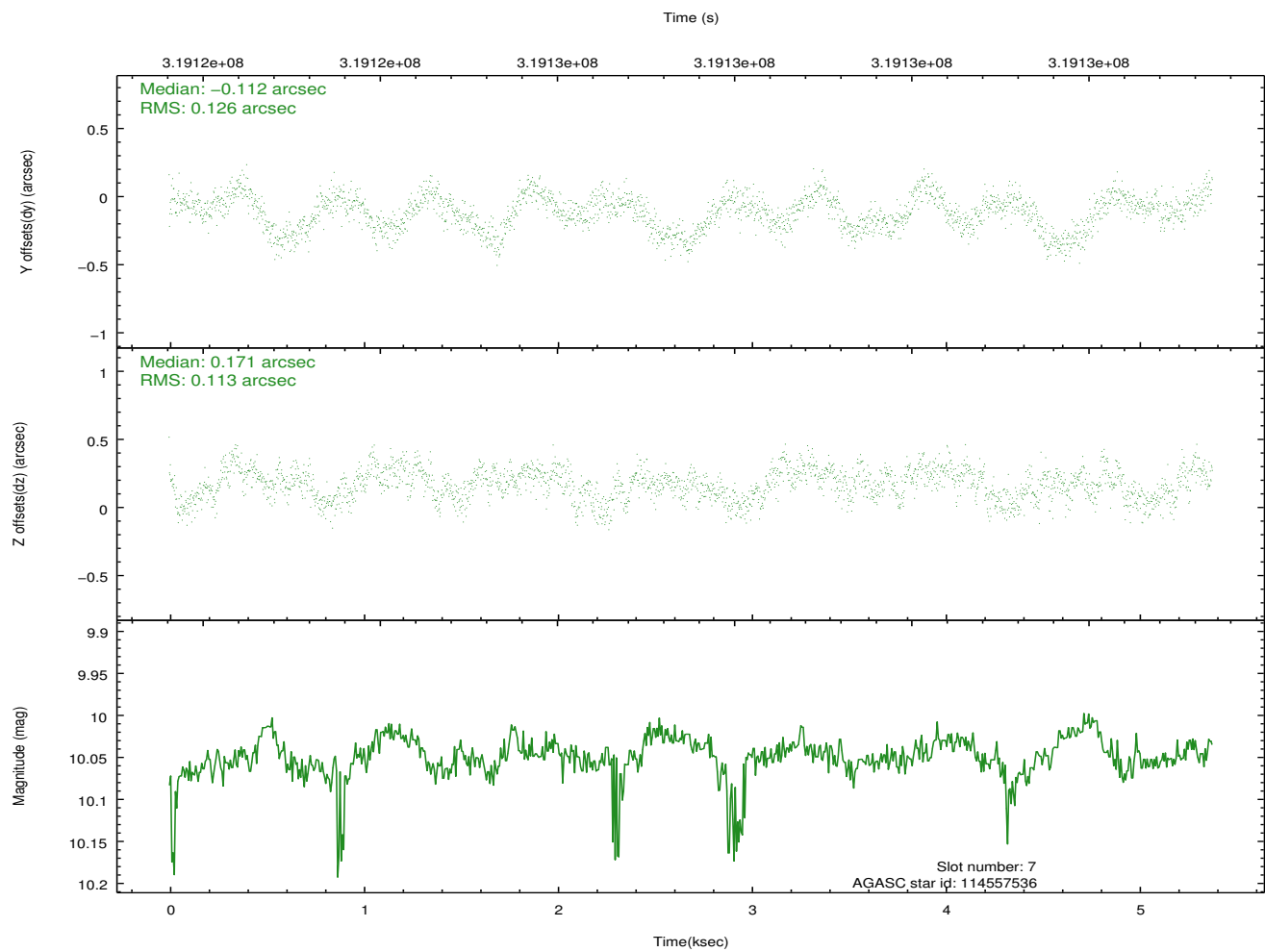
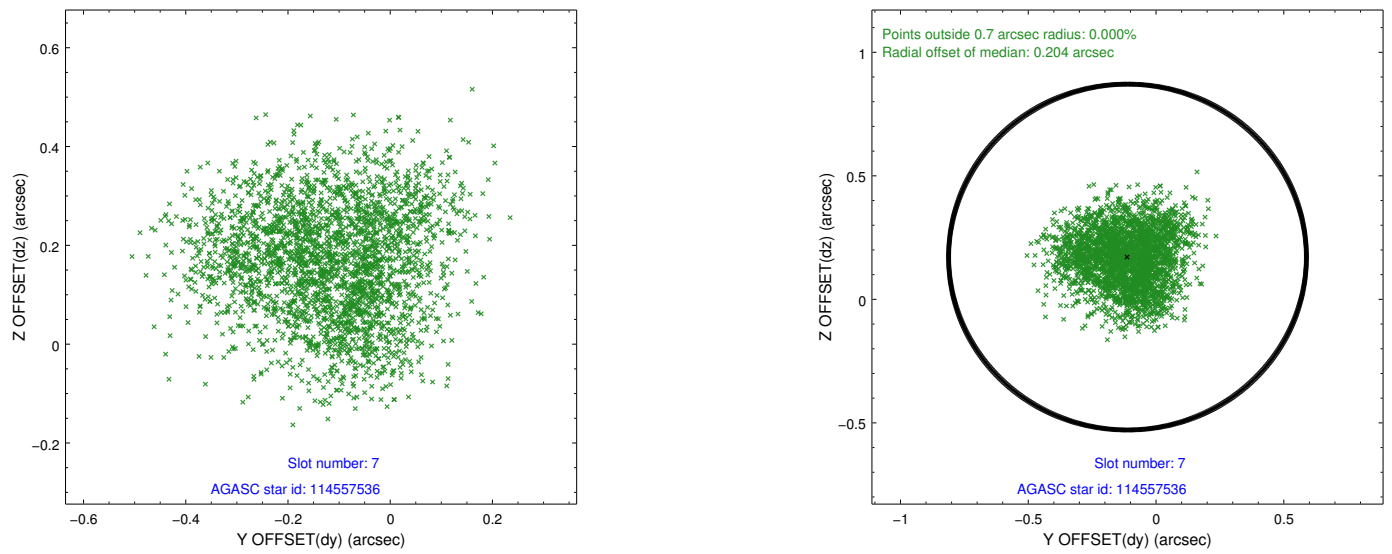
2.4.3 Slot 5



2.4.4 Slot 6

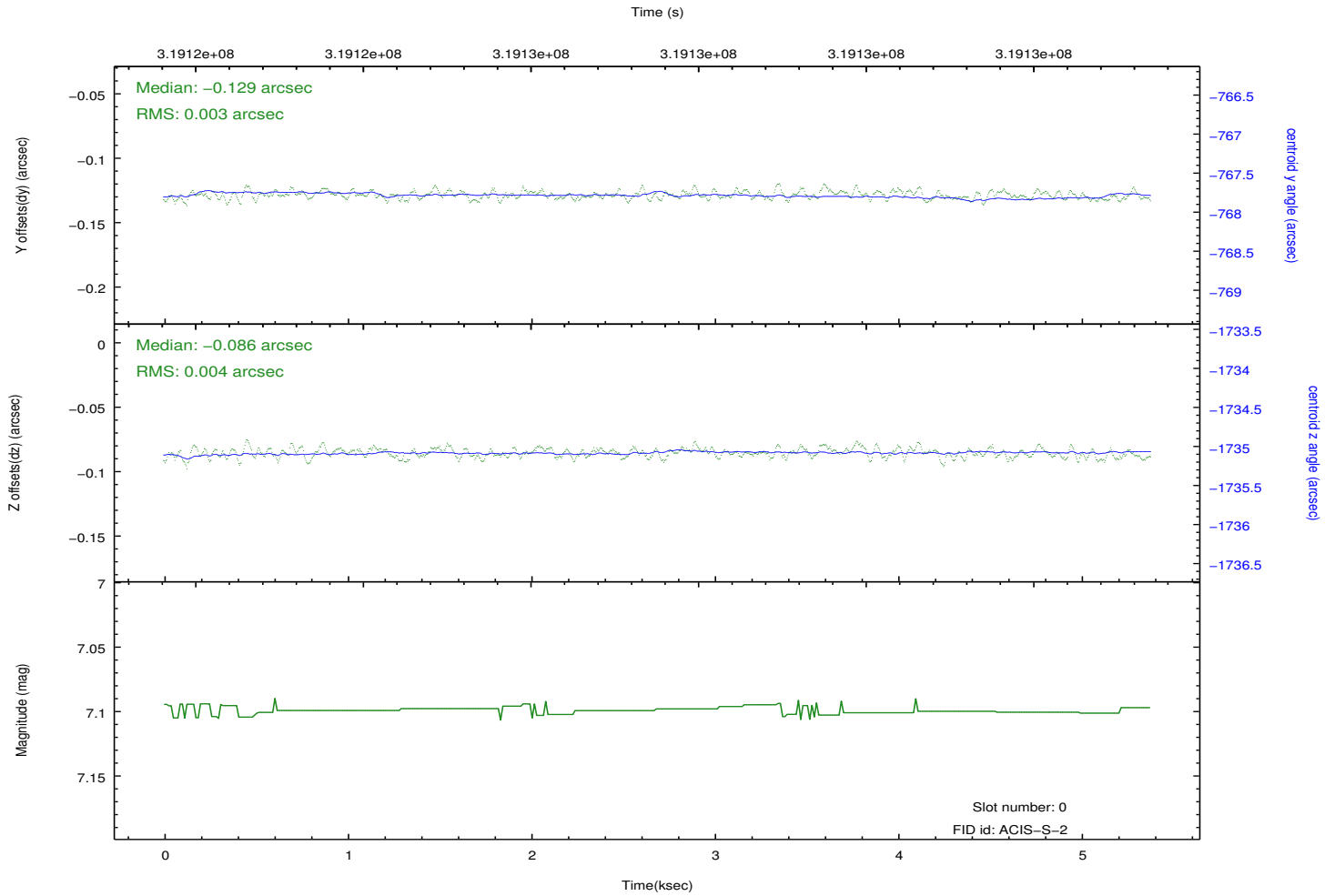
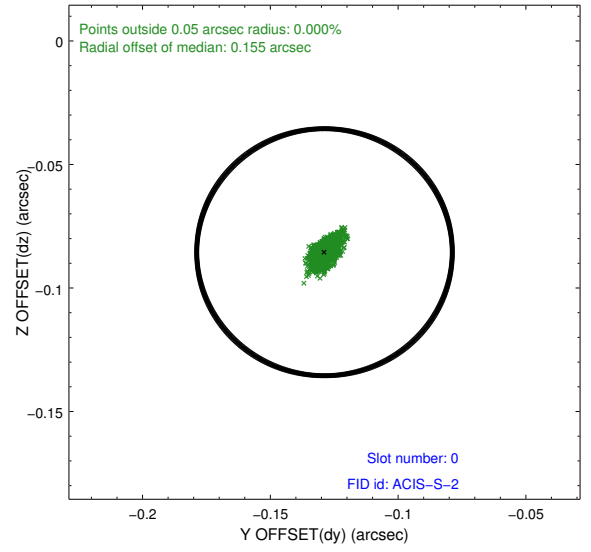
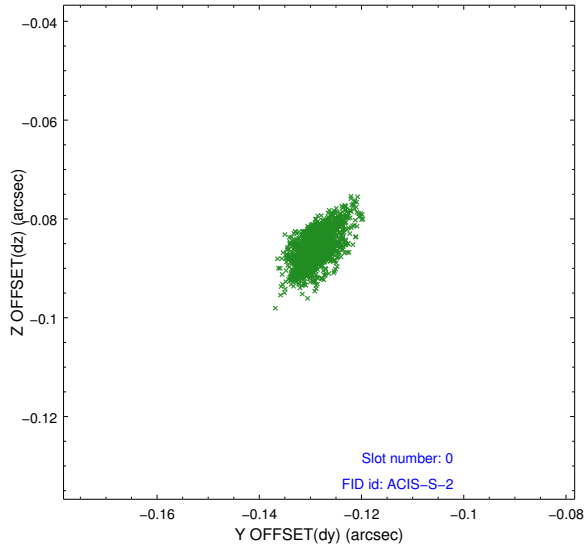


2.4.5 Slot 7

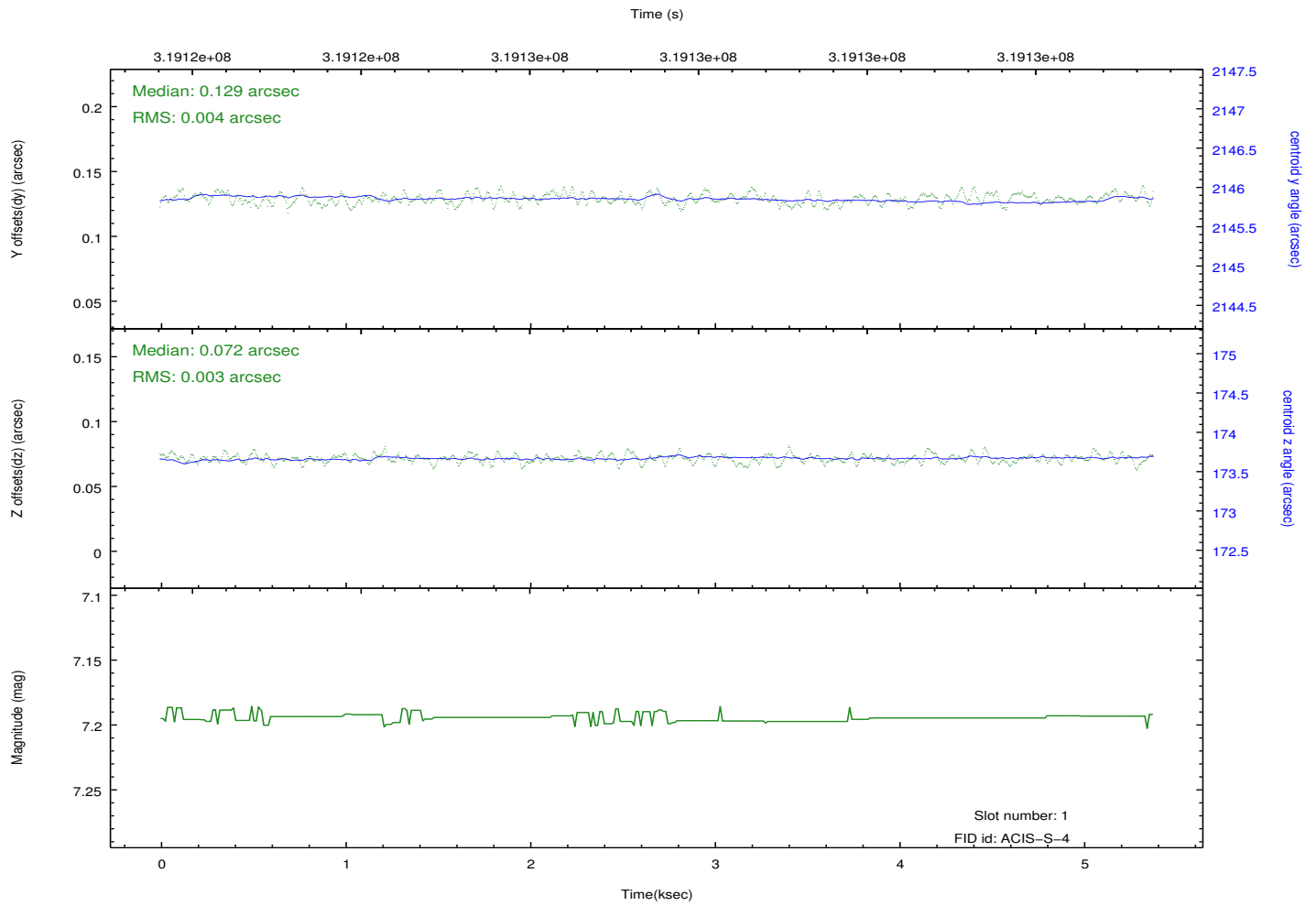
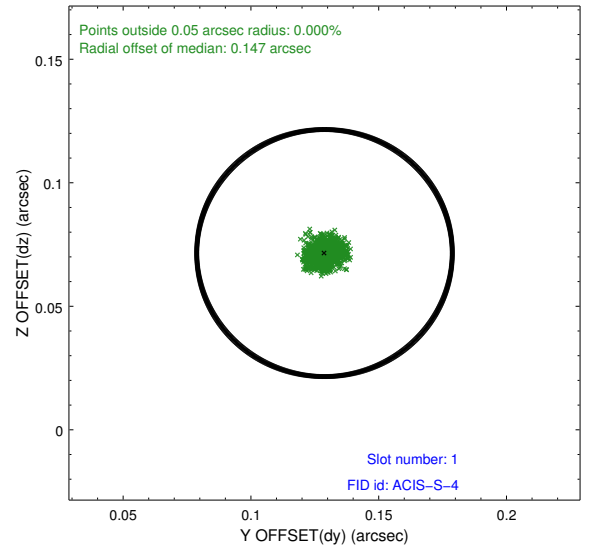
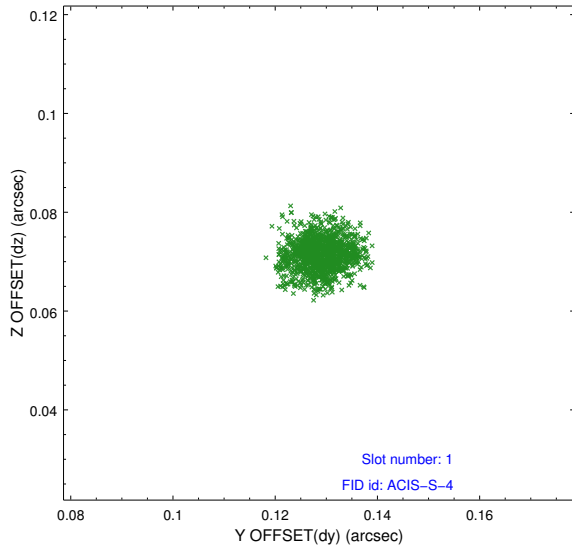


2.5 FID Slots

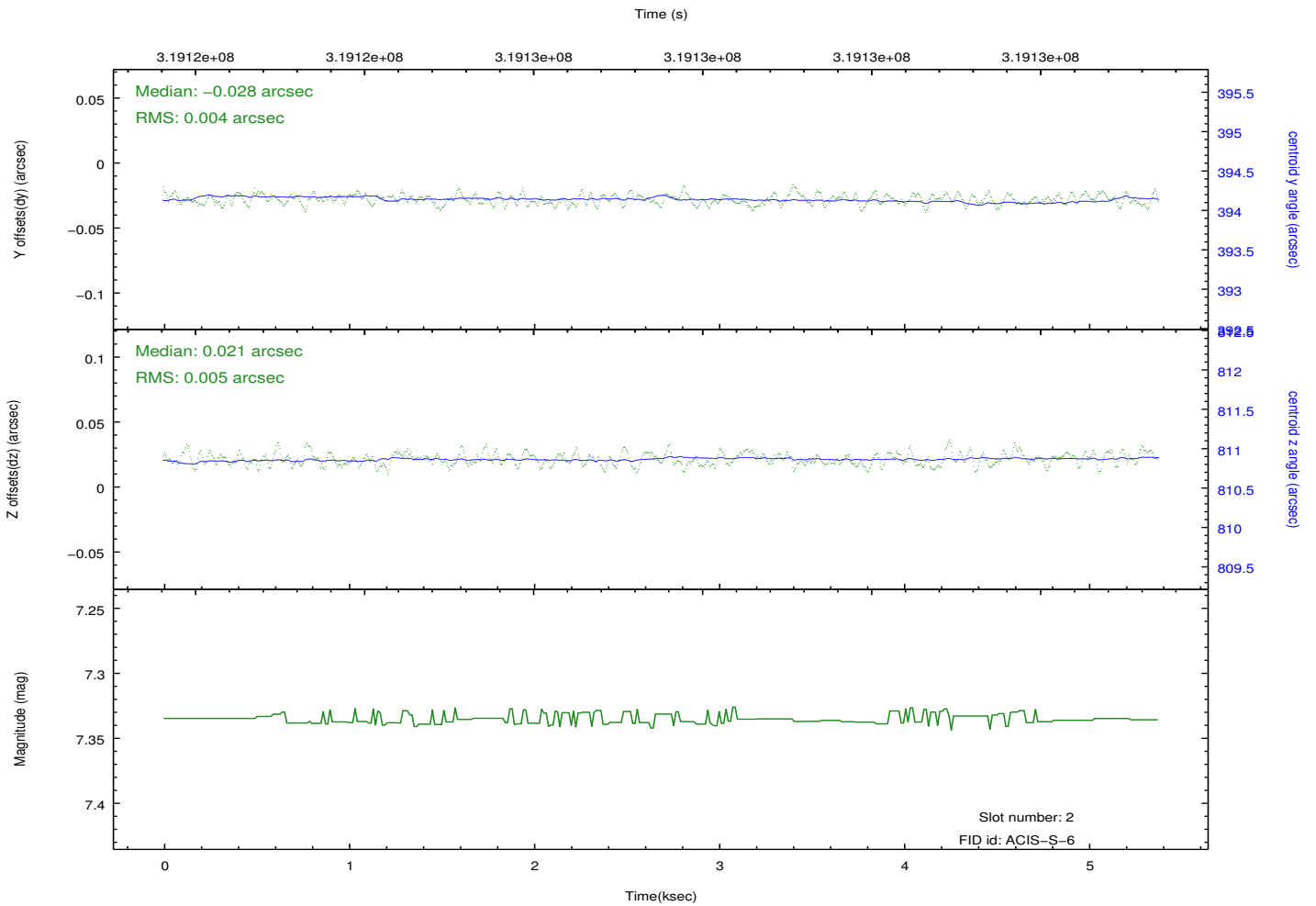
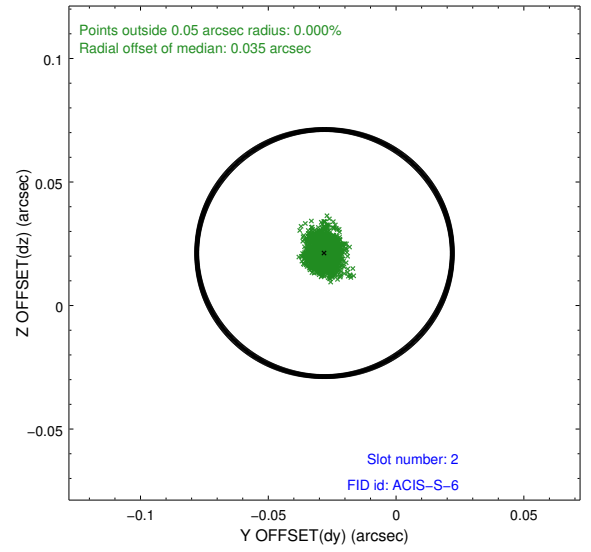
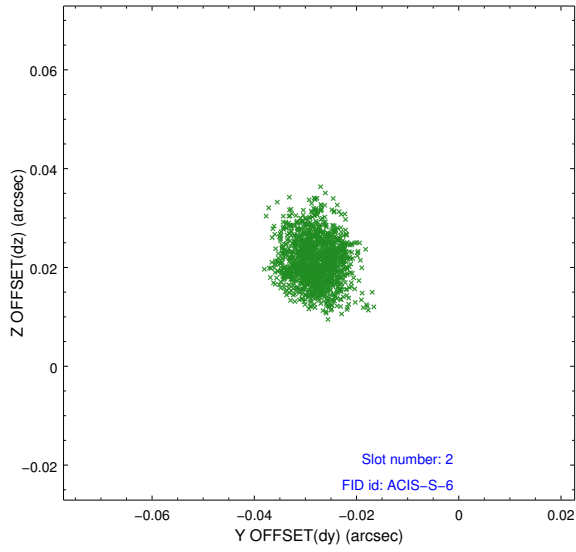
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.37279997

A.2 Comments

Joint proposal: Spitzer.