

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13960 - L2 Version 1
Chandra X-Ray Center

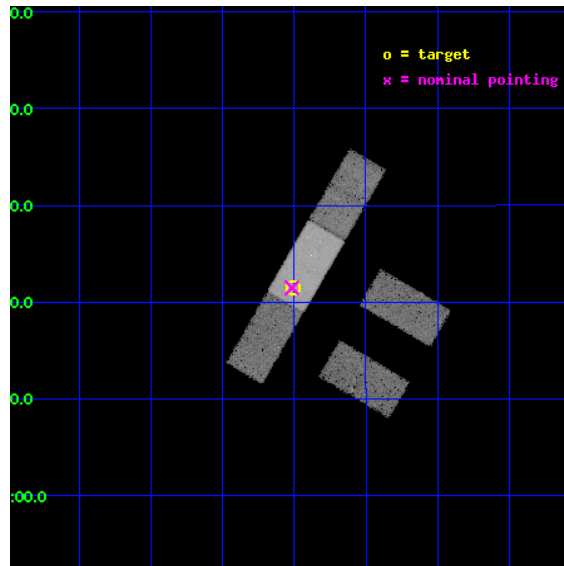
L2 Processing Date : Jan 11 2012

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

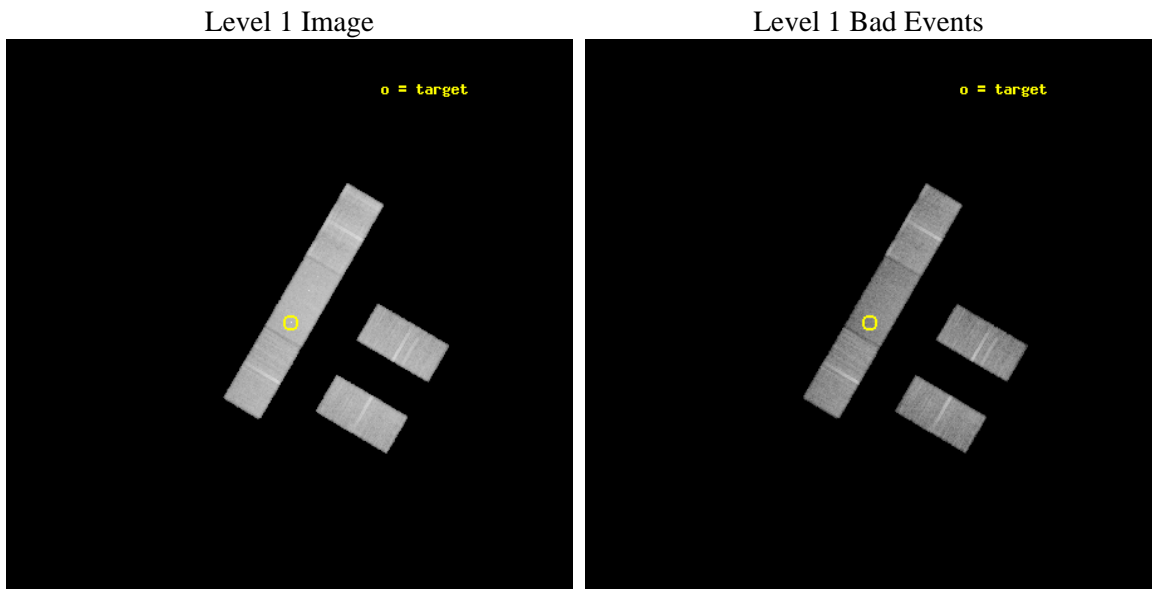
seq_num	702682	Sequence number
obs_id	13960	Observation id
title	Energy Dependent Microlensing in X-rays	Proposal title
observer	Dr. Xinyu Dai	Principal investigator
object	Q2237+0305	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	340.12625	Observer's specified target RA [deg]
dec_targ	3.358	Observer's specified target Dec [deg]
ra_nom	340.12927486932	Nominal RA [deg]
dec_nom	3.3578840158297	Nominal Dec [deg]
roll_nom	300.31680418716	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30069.509284019	Sum of GTIs [s]
livetime	29360.707268548	Livetime [s]
ontime2	30069.345124006	Sum of GTIs [s]
ontime3	30067.686193943	Sum of GTIs [s]
ontime6	30069.468244016	Sum of GTIs [s]
ontime7	30069.509284019	Sum of GTIs [s]
ontime8	30069.38616401	Sum of GTIs [s]
l2events	100880	Number of level 2 events



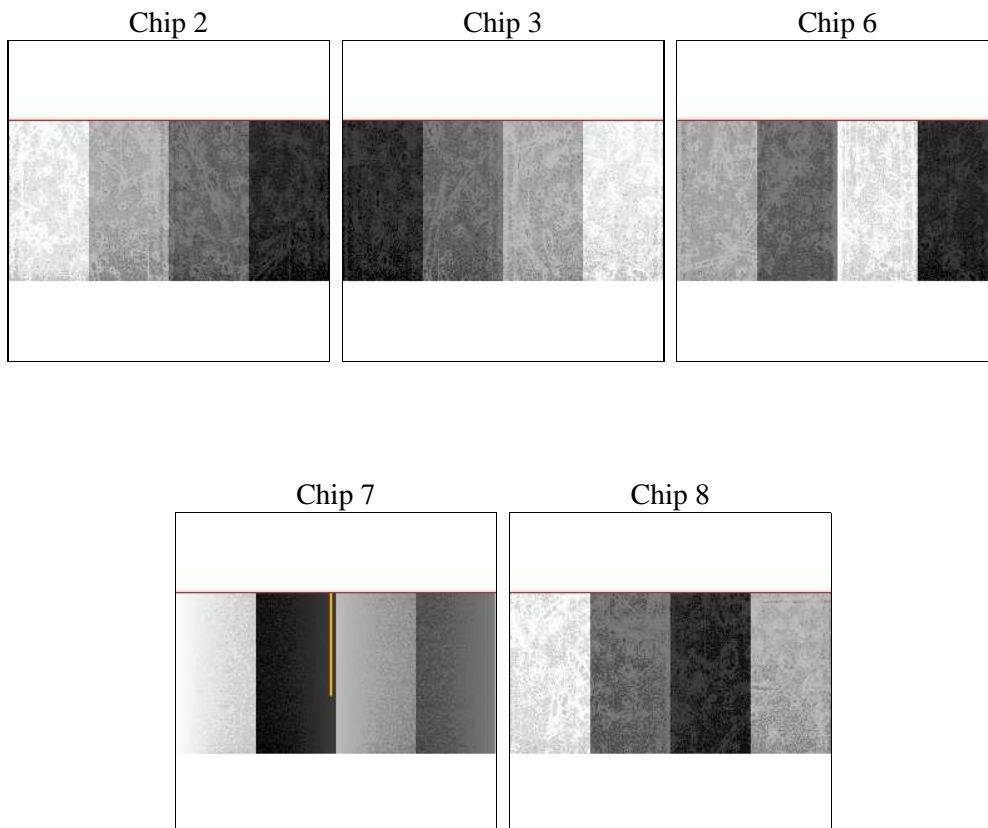
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30003.672000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	30069.509284019	Sum of GTIs [s]
caldbver	4.4.7	 	ontime2	30069.345124006	Sum of GTIs [s]
date	2012-01-11T21:22:44	Date and time of file creation	ontime3	30067.686193943	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	30069.468244016	Sum of GTIs [s]
			ontime7	30069.509284019	Sum of GTIs [s]
			ontime8	30069.38616401	Sum of GTIs [s]
			l1events	578478	Number of level 1 events

2.1.4 Events

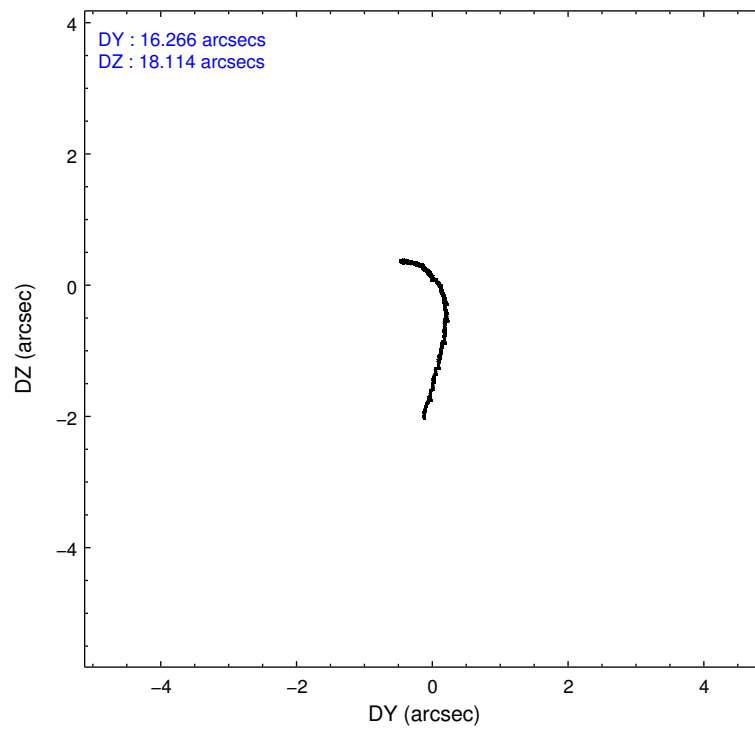
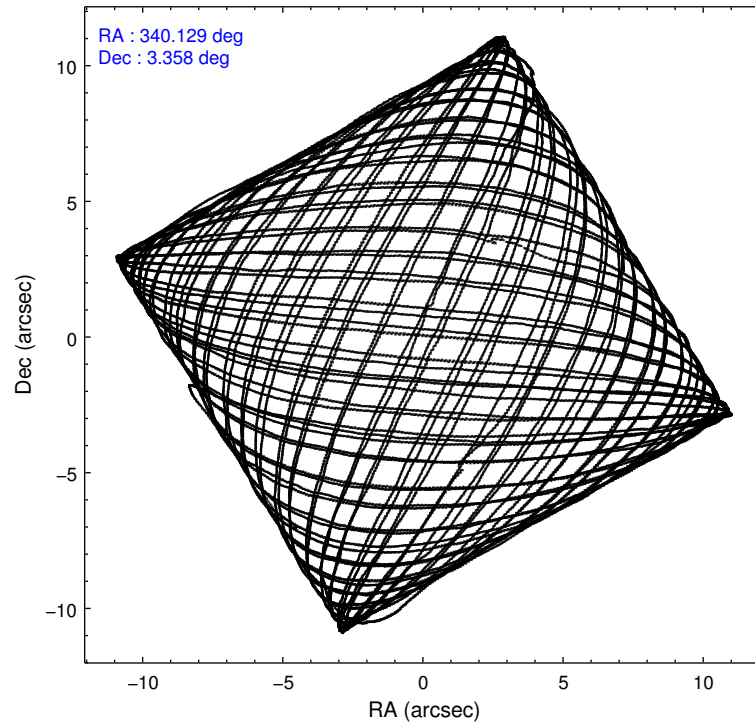
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	99945	100396	106784	130268	141085
rejected events	88641	89328	94242	69939	104455
rejected %	88%	88%	88%	53%	74%

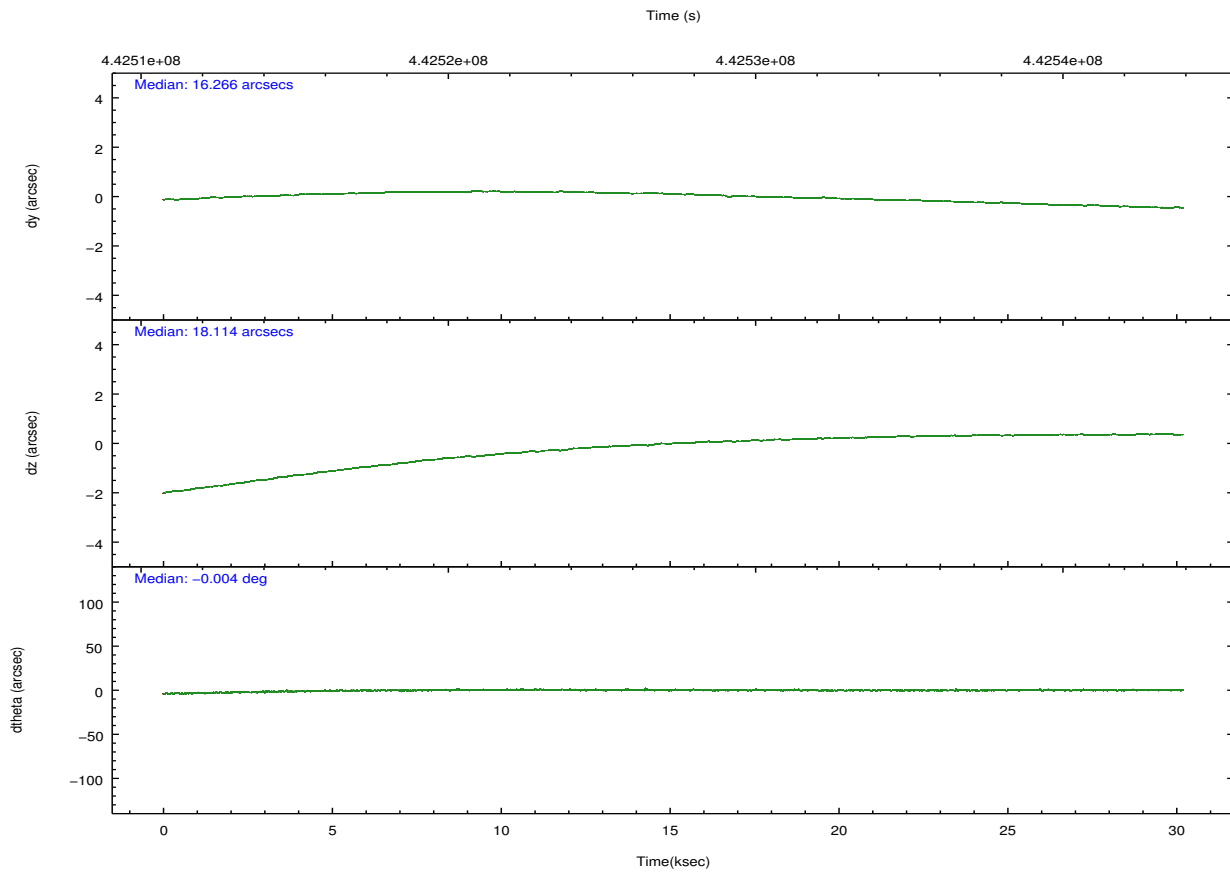
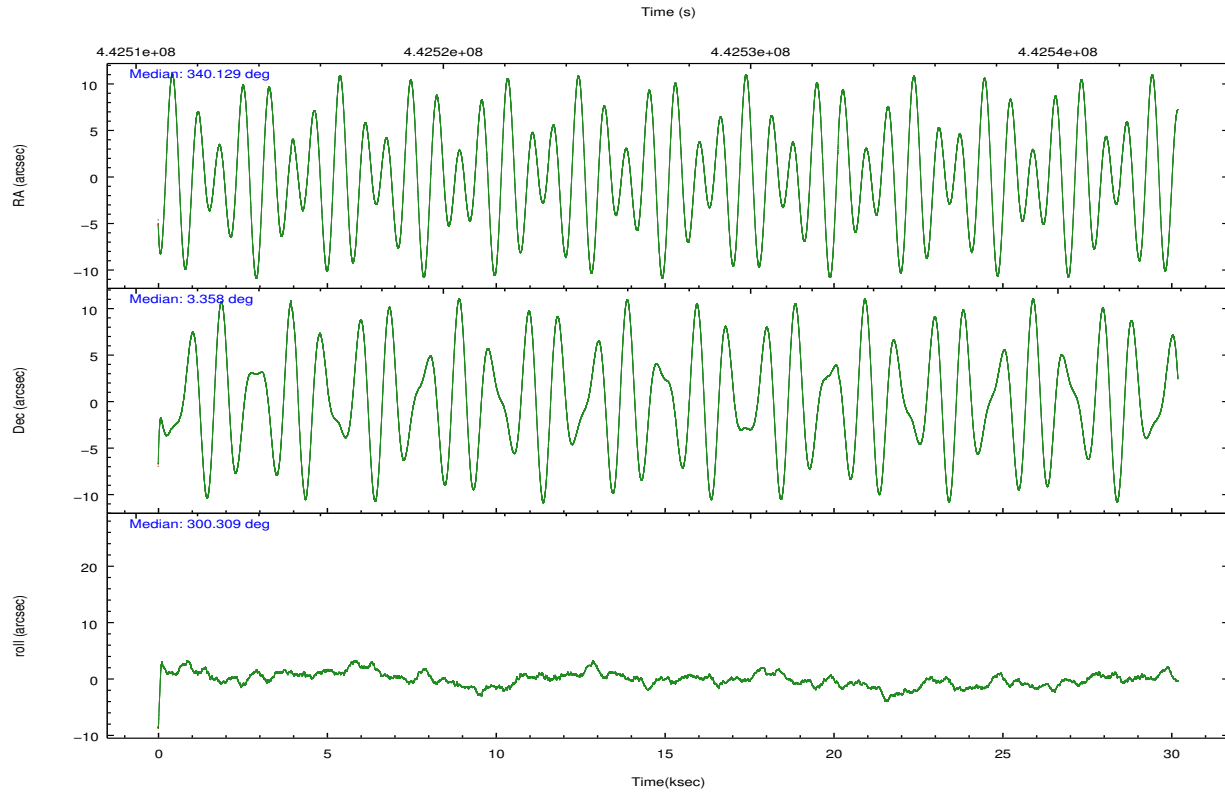
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3938	3674	4145	5934	10805
	3%	3%	3%	4%	7%
grade 1 events	38	52	37	174	91
	0%	0%	0%	0%	0%
grade 2 events	2551	2352	2642	12455	8297
	2%	2%	2%	9%	5%
grade 3 events	1303	1426	1535	5969	3853
	1%	1%	1%	4%	2%
grade 4 events	1476	1342	1559	5904	3623
	1%	1%	1%	4%	2%
grade 5 events	3826	4734	4999	13695	6957
	3%	4%	4%	10%	4%
grade 6 events	2038	2276	2662	30074	10056
	2%	2%	2%	23%	7%
grade 7 events	84775	84540	89205	56063	97403
	84%	84%	83%	43%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	340.105301	340.1292748693186	CCD I2 on	O4	Y
[deg] Pointing Dec	3.371099	3.357884015829669	CCD I3 on	O3	Y
[deg] Pointing Roll	300.161589	300.3168041871555	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	442512402.184000	442511057.24784	CCD S5 on	N	N
Observation start date	2012-01-09T16:05:36	2012-01-09T15:44:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	442542406.184000	442542636.98701	On-chip summing requested	N	N
Observation end date	2012-01-10T00:25:40	2012-01-10T00:30:36	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



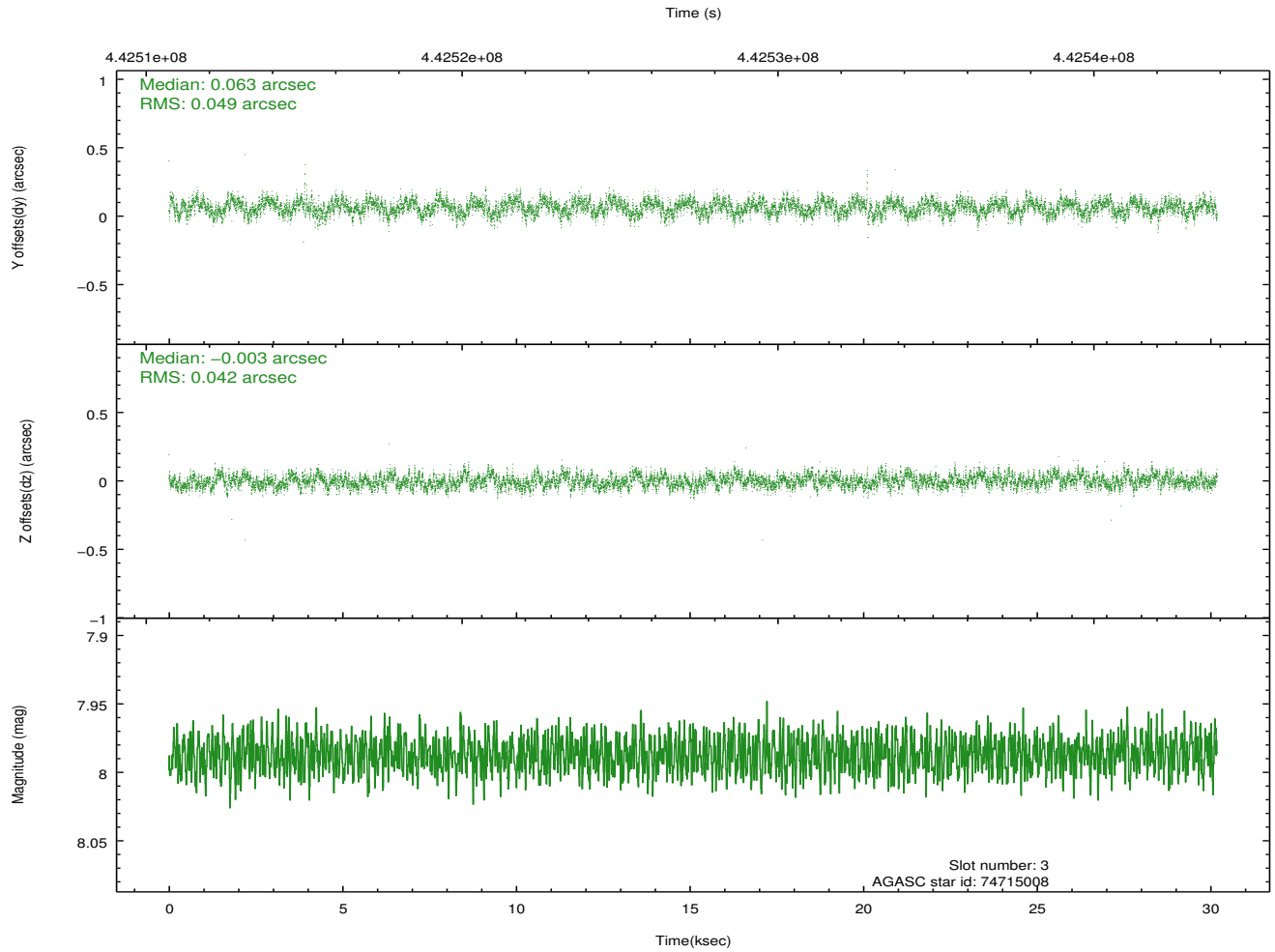
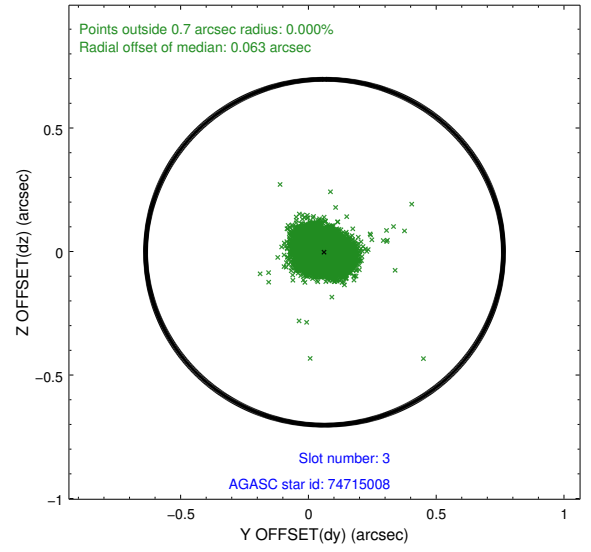
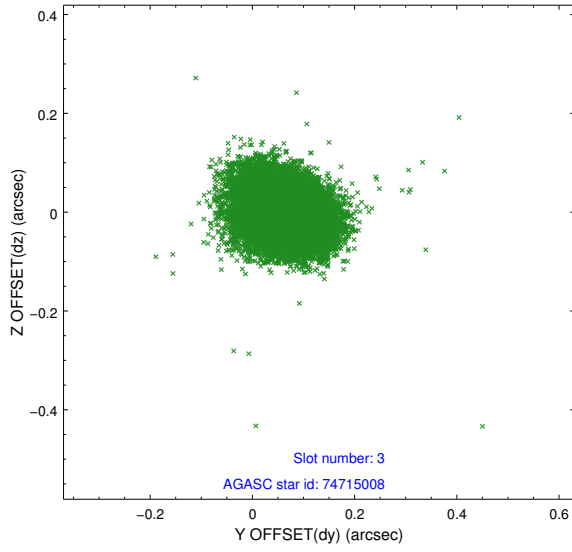


Slot Statistics

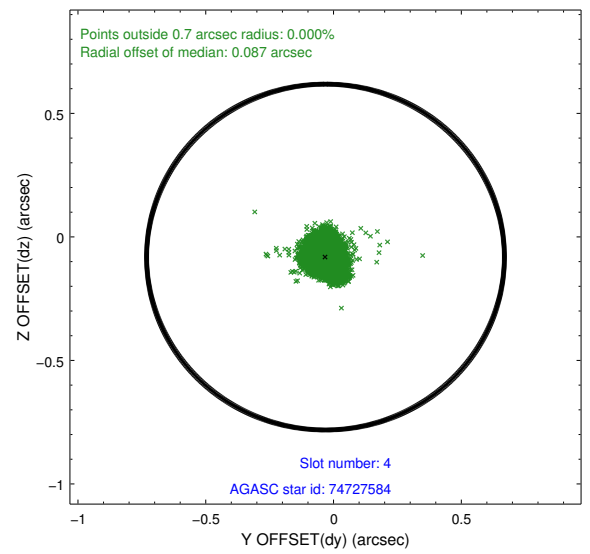
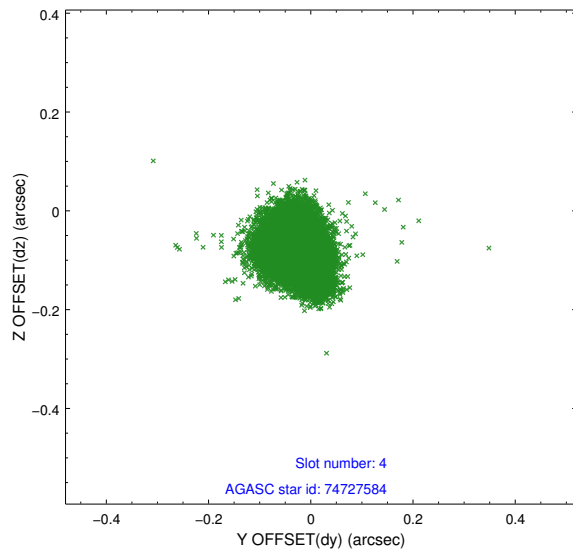
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	7365	0.062	-0.023	0.028	0.064	0.000000	0.000000	926.82	-1734.96
1	FID	ACIS-S-4	7.03	7364	0.135	-0.011	0.016	0.050	0.000000	0.000000	2144.38	169.13
2	FID	ACIS-S-5	7.06	7365	-0.224	0.048	0.015	0.020	0.000000	0.000000	-1822.21	162.92
3	GUIDE	74715008	7.99	14724	0.063	-0.003	0.068	0.110	339.956848	3.242441	132.74	-693.70
4	GUIDE	74727584	6.97	14723	-0.031	-0.082	0.054	0.090	339.633744	3.463732	-1139.69	-1297.32
5	GUIDE	74842128	8.52	14723	0.051	-0.037	0.082	0.132	340.118134	3.132788	765.25	-391.22
6	GUIDE	74854992	8.27	14717	0.036	-0.011	0.068	0.108	340.342808	3.603730	-295.15	1158.51
7	GUIDE	74855160	9.22	14649	-0.121	0.136	0.113	0.200	340.321337	4.258359	-2371.97	2275.90

2.4 Star Slots

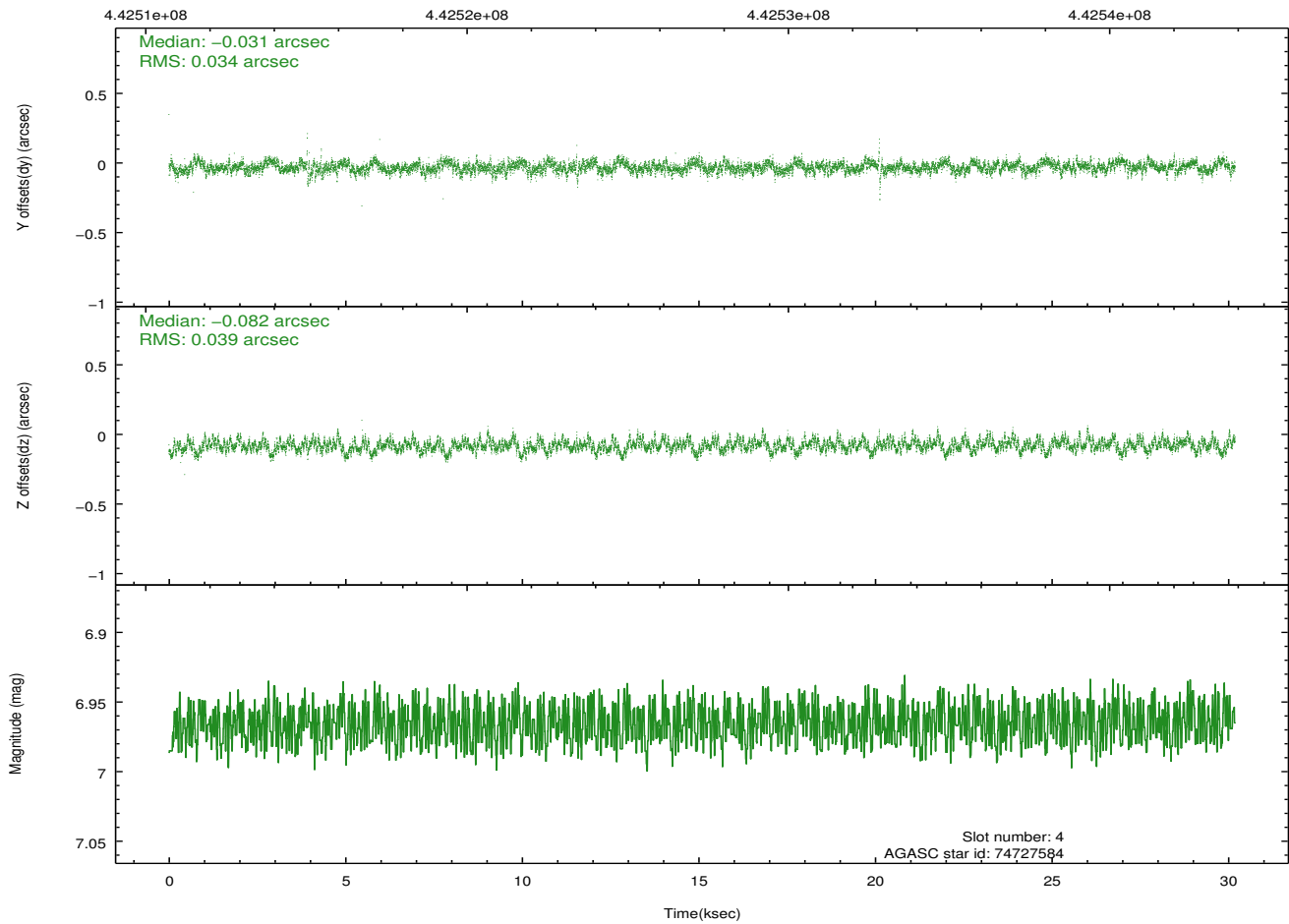
2.4.1 Slot 3



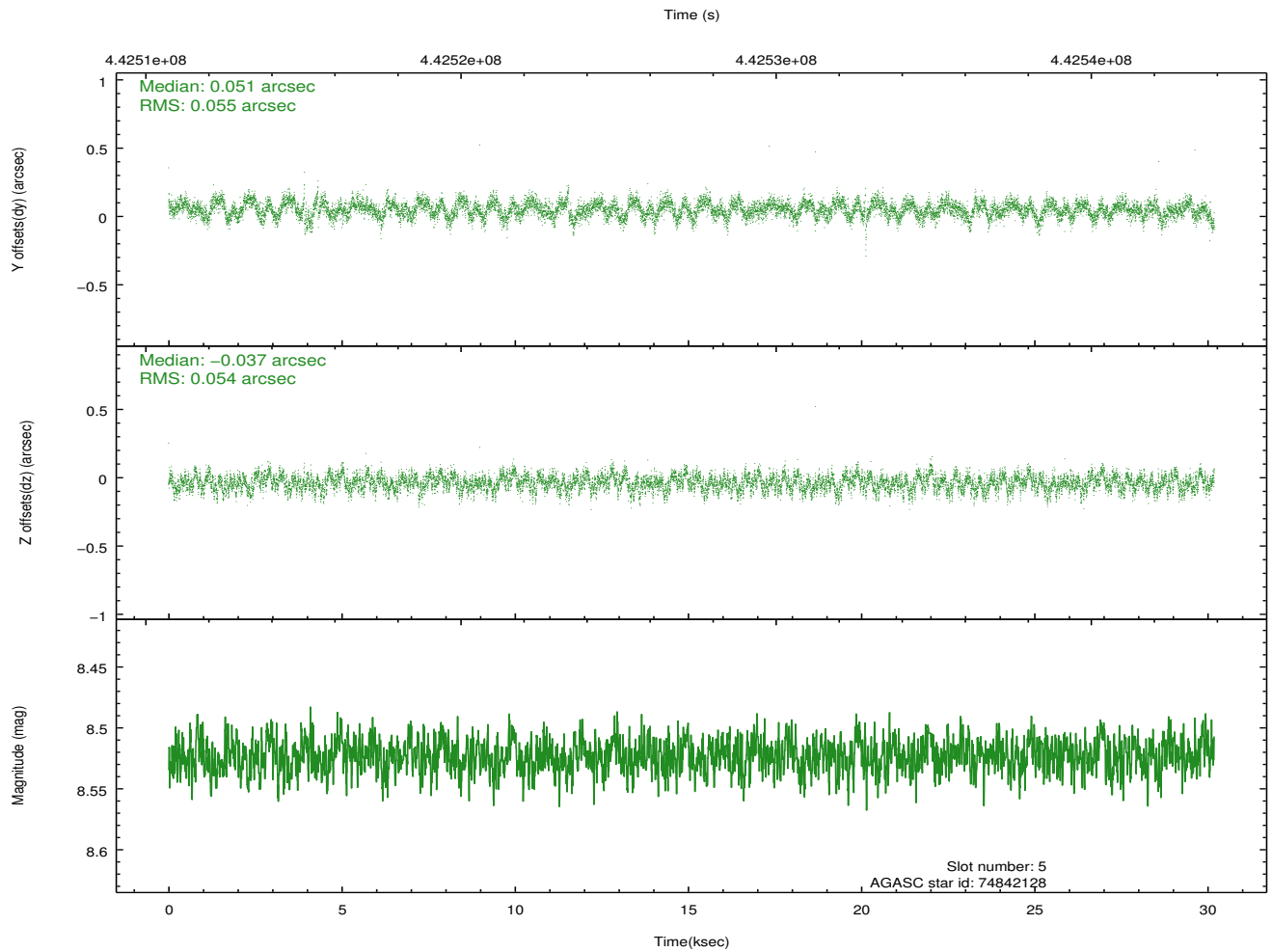
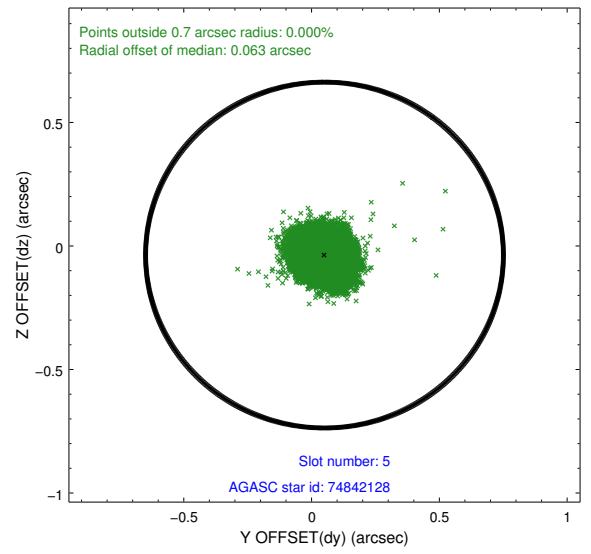
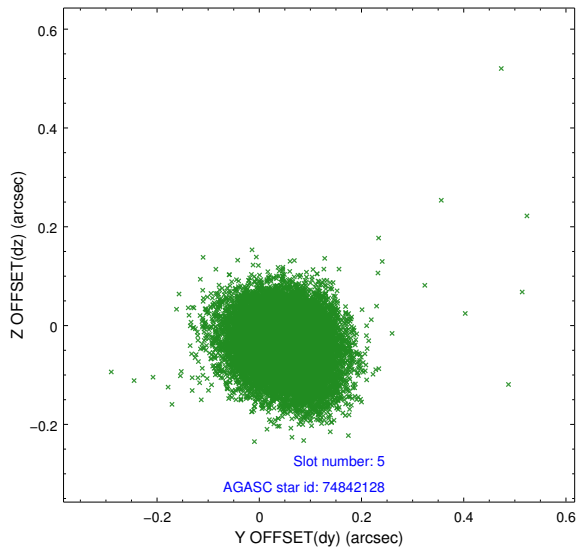
2.4.2 Slot 4



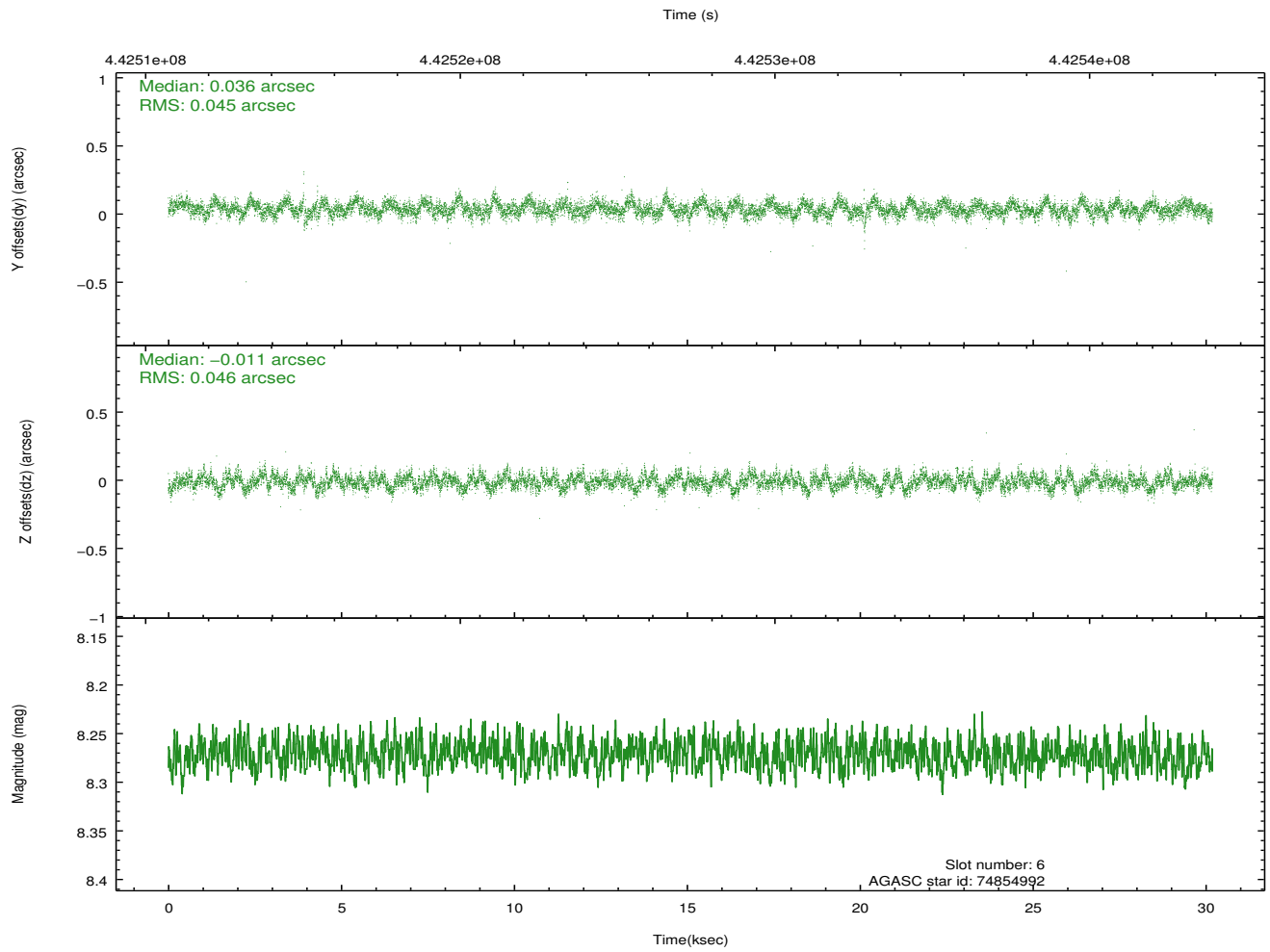
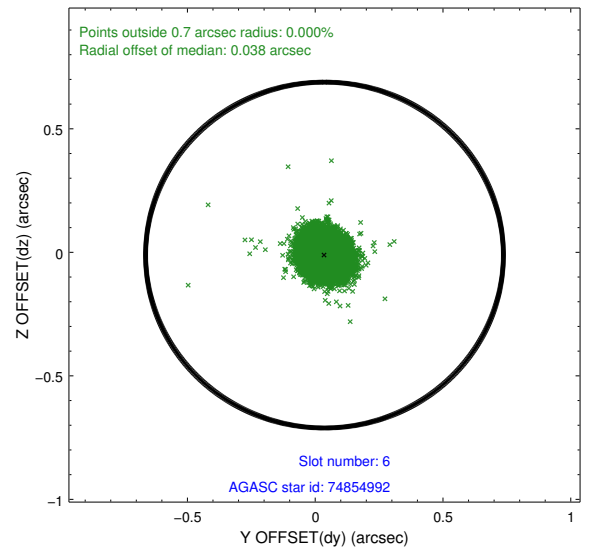
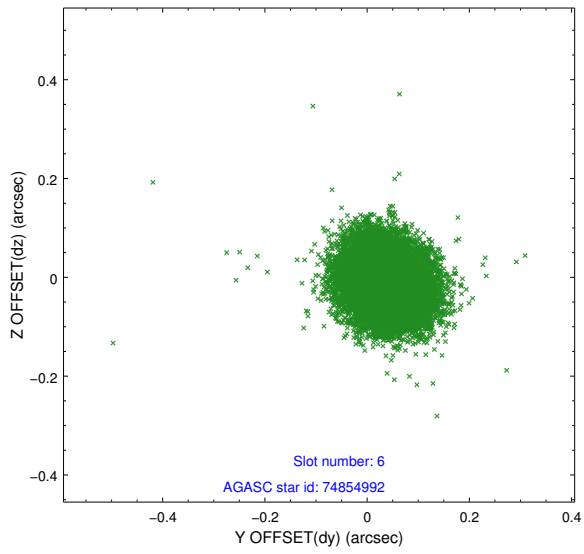
Time (s)



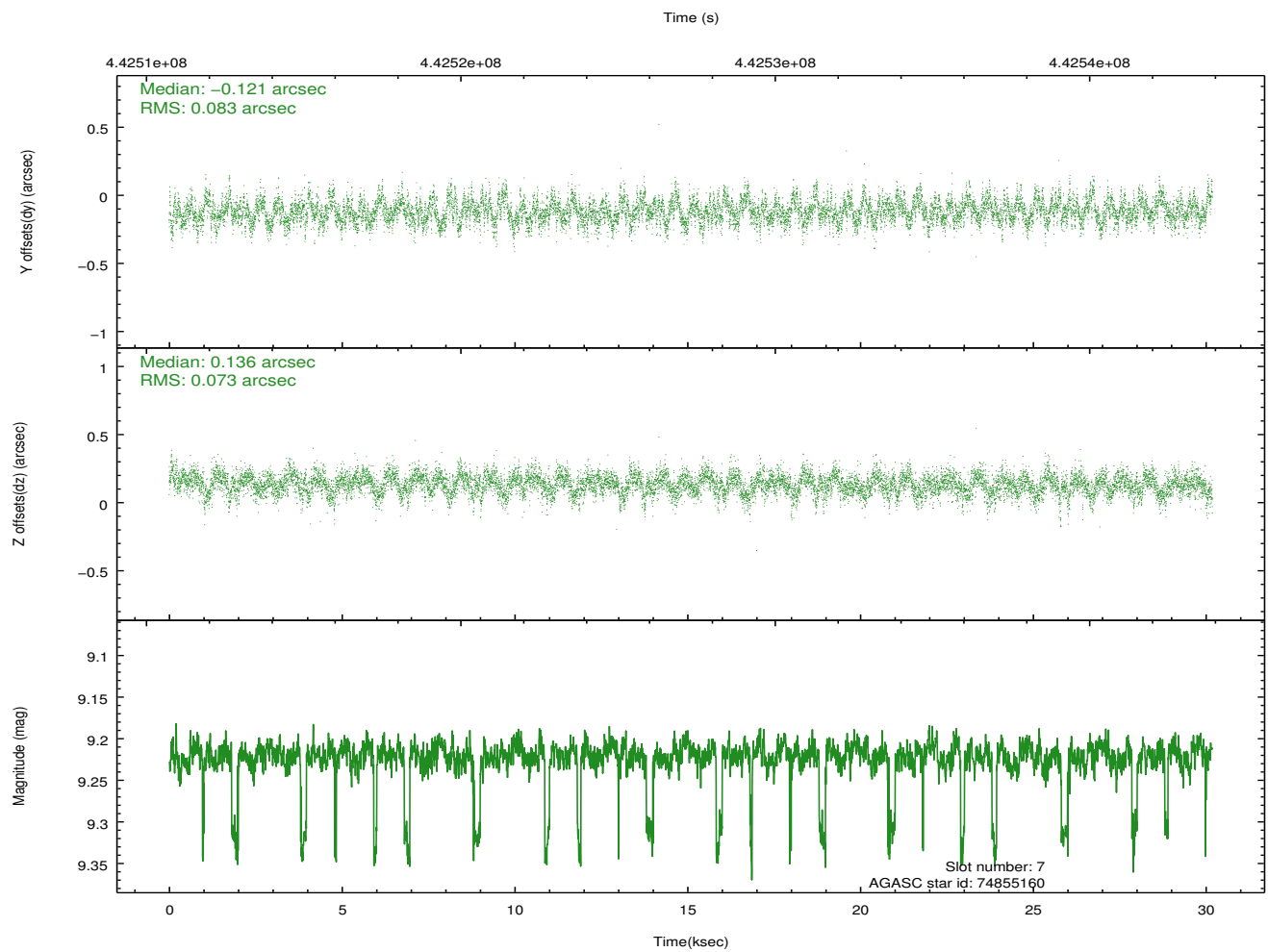
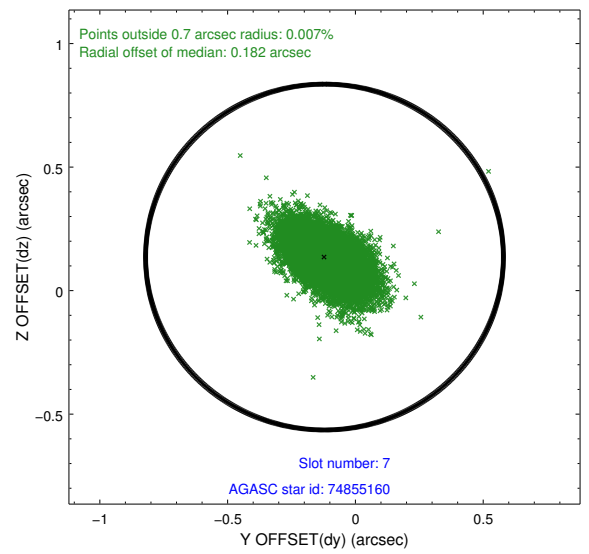
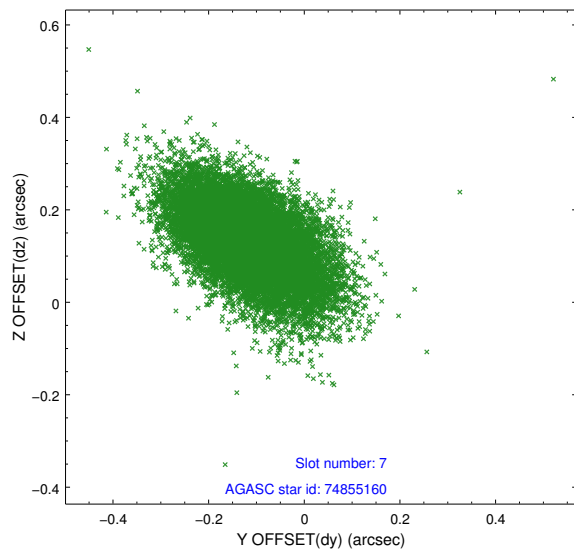
2.4.3 Slot 5



2.4.4 Slot 6

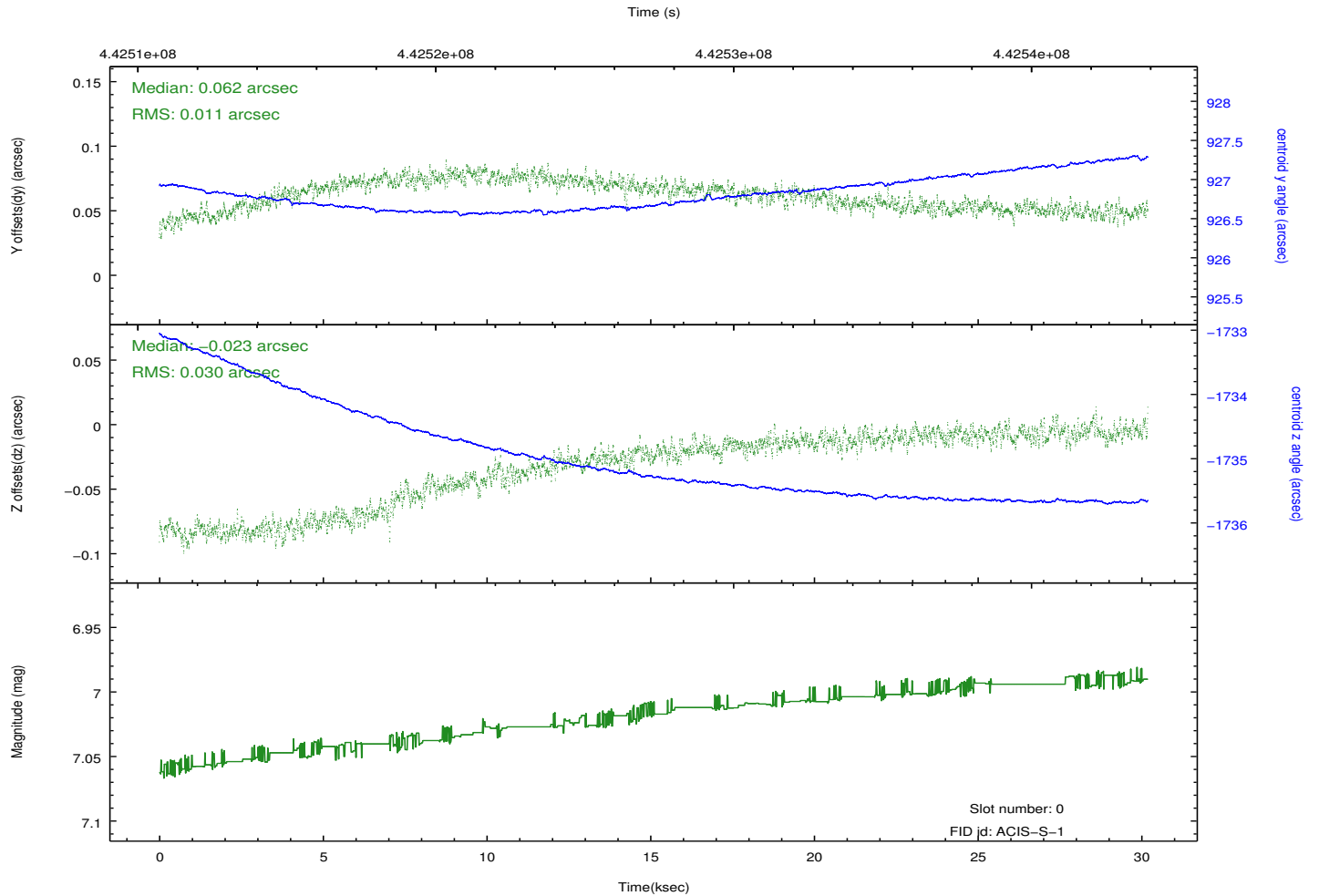
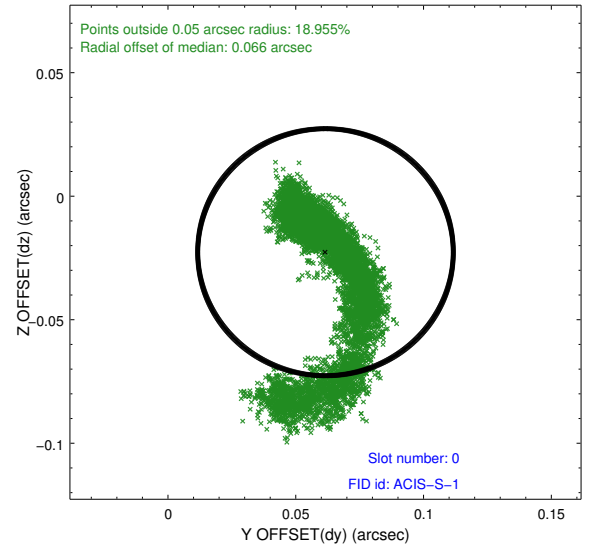
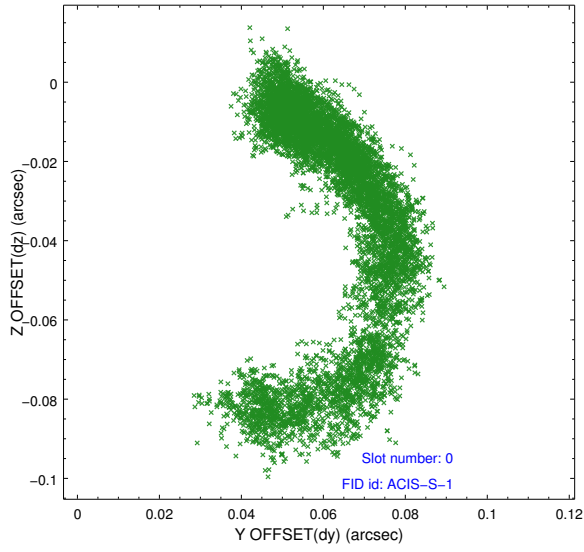


2.4.5 Slot 7

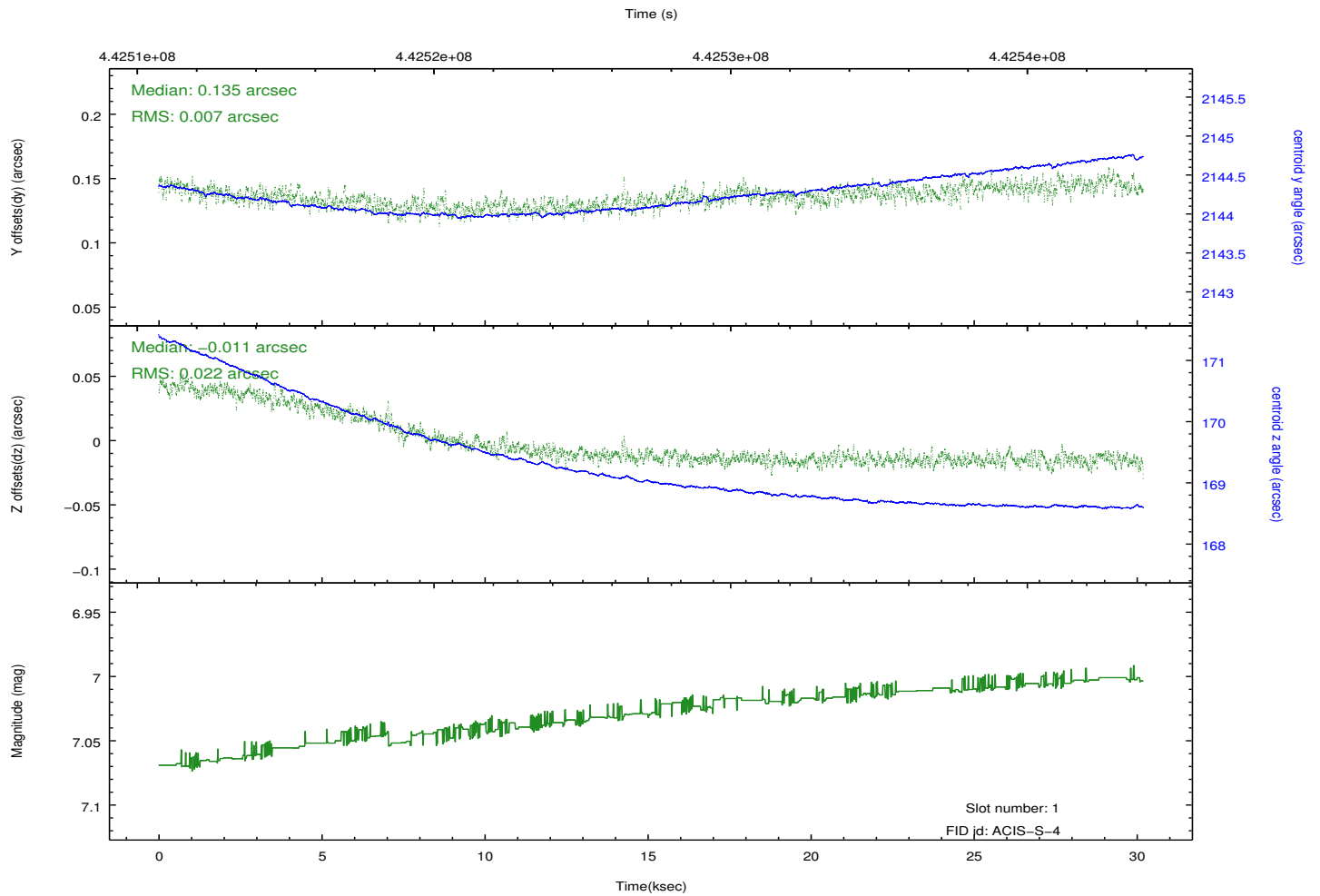
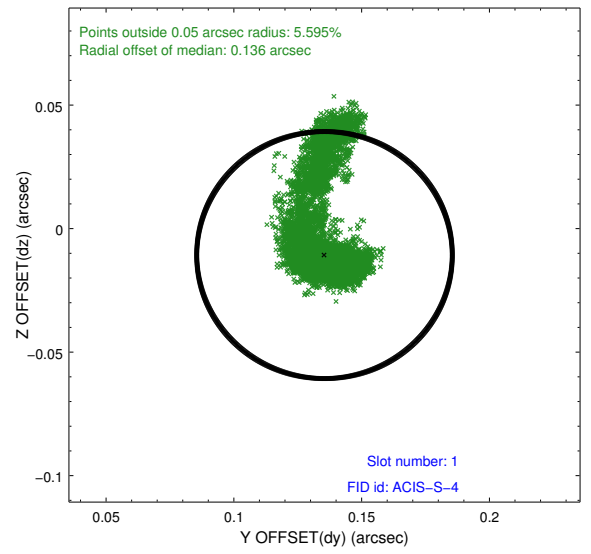
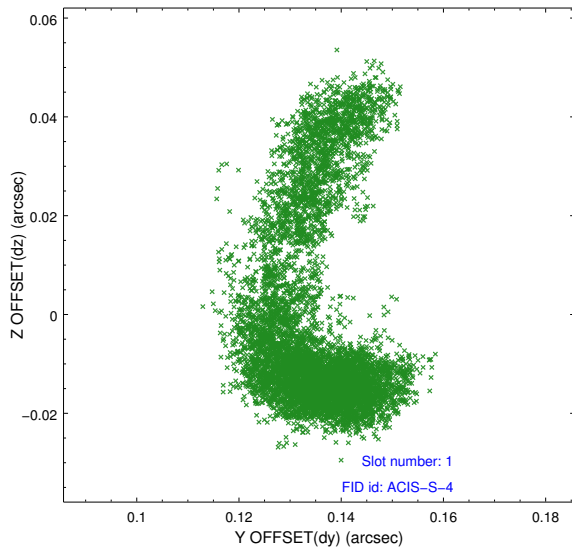


2.5 FID Slots

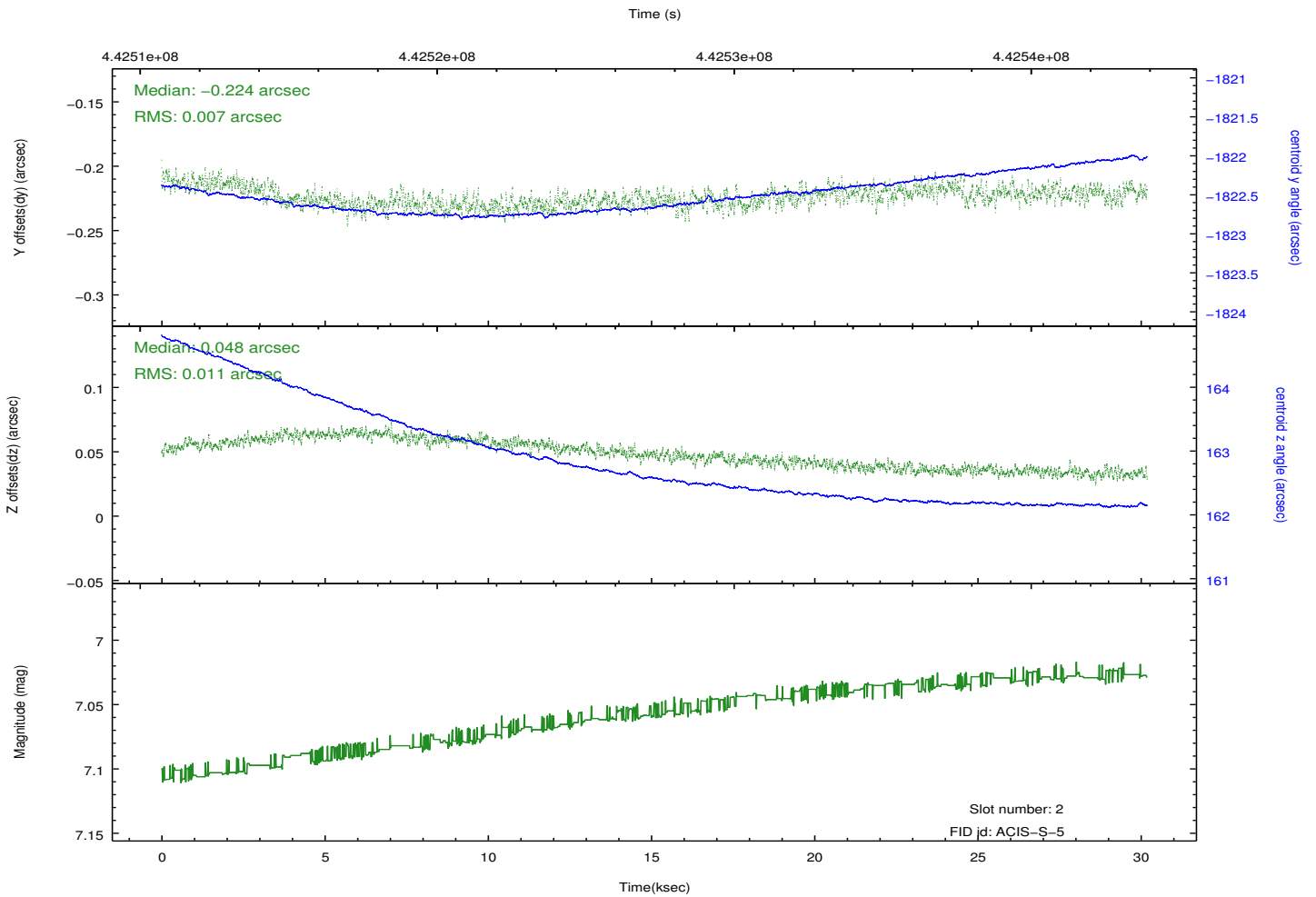
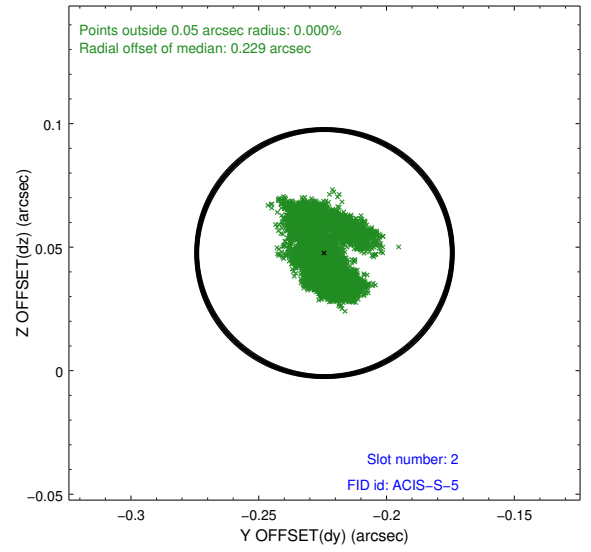
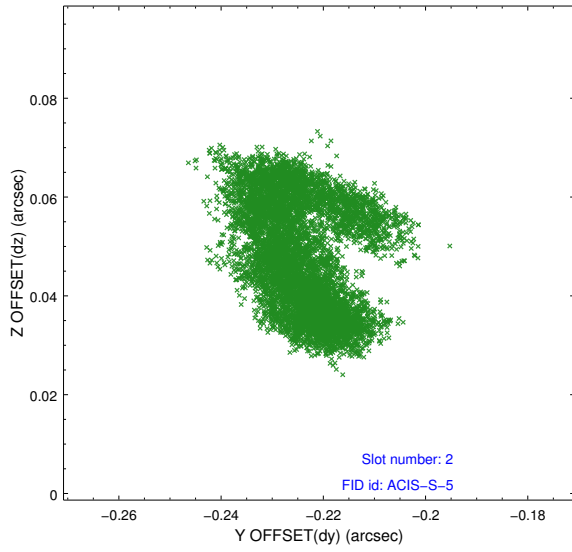
2.5.1 Slot 0



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)	2012.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.069509284019

A.2 Comments