

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17019 - L2 Version 1
Chandra X-Ray Center

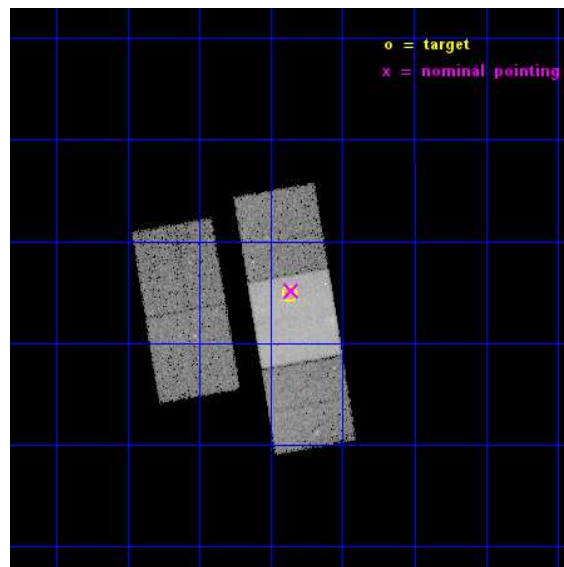
L2 Processing Date : Feb 24 2015

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1 Front

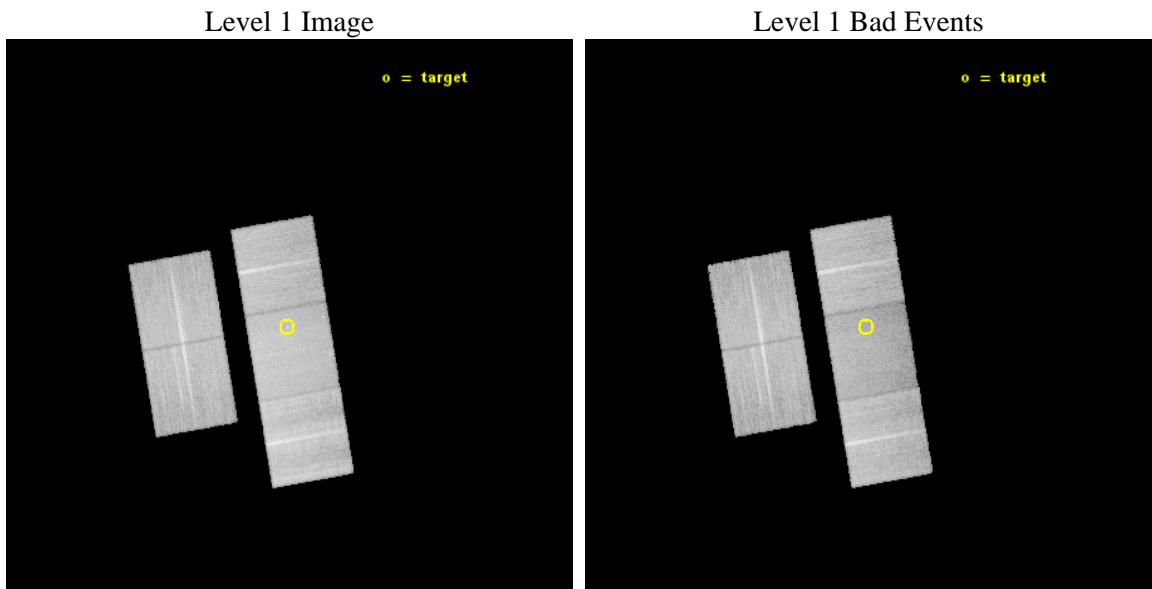
seq_num	601212	Sequence number
obs_id	17019	Observation id
title	Chandra Observation of an X-ray Outbursting Intermediate-mass Black Hole Candidate	Proposal title
observer	Dr Dacheng Lin	Principal investigator
object	CXO J150052.1+015453	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	225.217083	Observer's specified target RA [deg]
dec_targ	1.914722	Observer's specified target Dec [deg]
ra_nom	225.21443700414	Nominal RA [deg]
dec_nom	1.919456127346	Nominal Dec [deg]
roll_nom	80.209645985999	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37063.600285172	Sum of GTIs [s]
livetime	36579.337061621	Livetime [s]
ontime2	37060.459264874	Sum of GTIs [s]
ontime3	37060.459254861	Sum of GTIs [s]
ontime6	37063.600285172	Sum of GTIs [s]
ontime7	37063.600285172	Sum of GTIs [s]
ontime8	37063.600285172	Sum of GTIs [s]
l2events	160135	Number of level 2 events



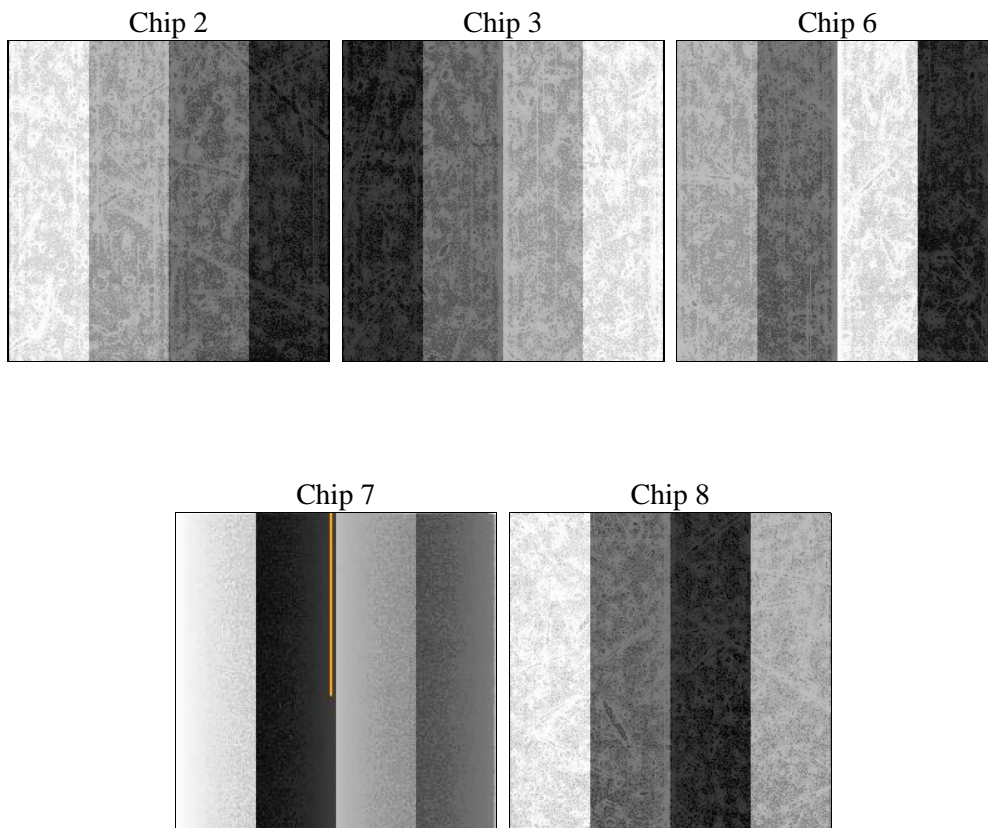
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	37063.600285172	Sum of GTIs [s]
caldbver	4.6.7	 	ontime2	37060.459264874	Sum of GTIs [s]
date	2015-02-24T11:59:35	Date and time of file creation	ontime3	37060.459254861	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	37063.600285172	Sum of GTIs [s]
			ontime7	37063.600285172	Sum of GTIs [s]
			ontime8	37063.600285172	Sum of GTIs [s]
			l1events	910470	Number of level 1 events

2.1.4 Events

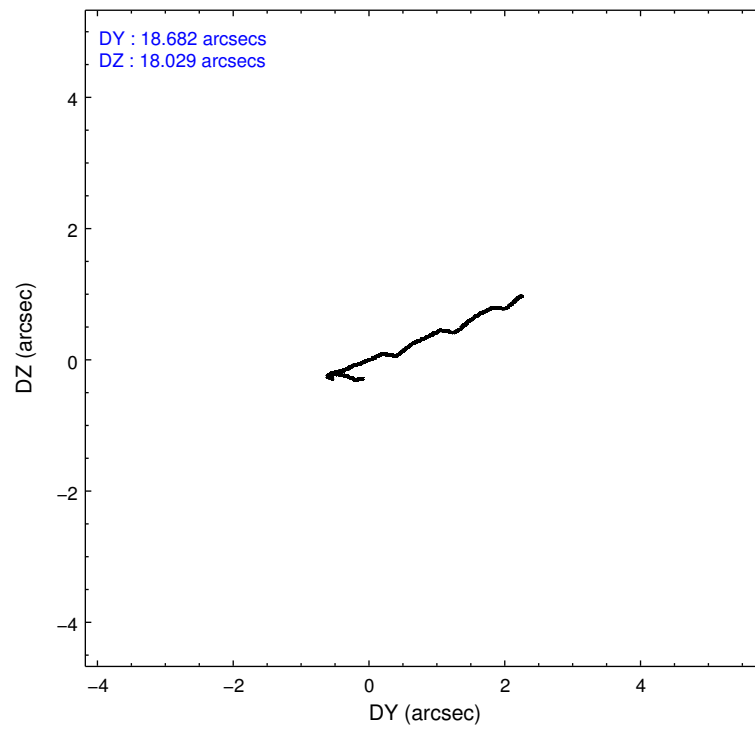
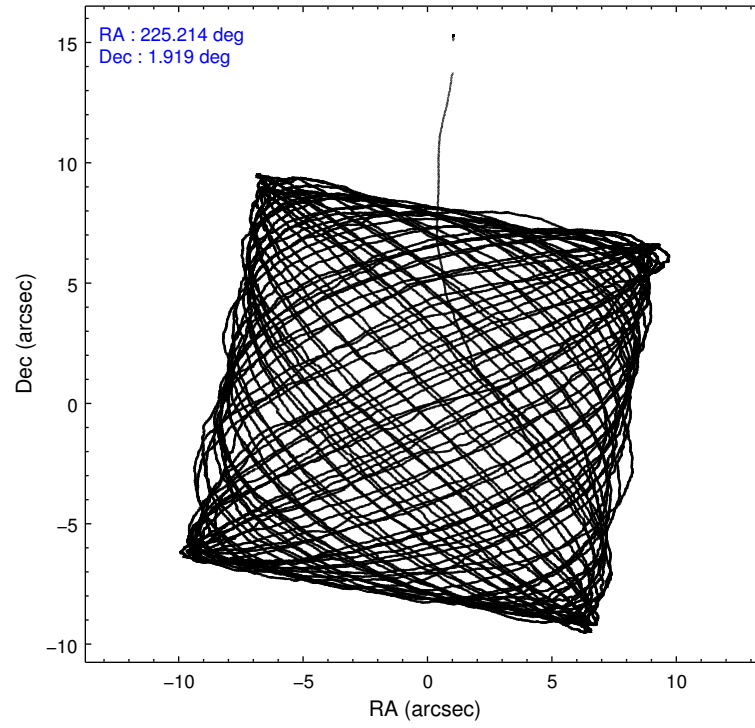
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	165737	163541	168202	193563	219427
rejected events	147842	144563	147932	101929	158190
rejected %	89%	88%	87%	52%	72%

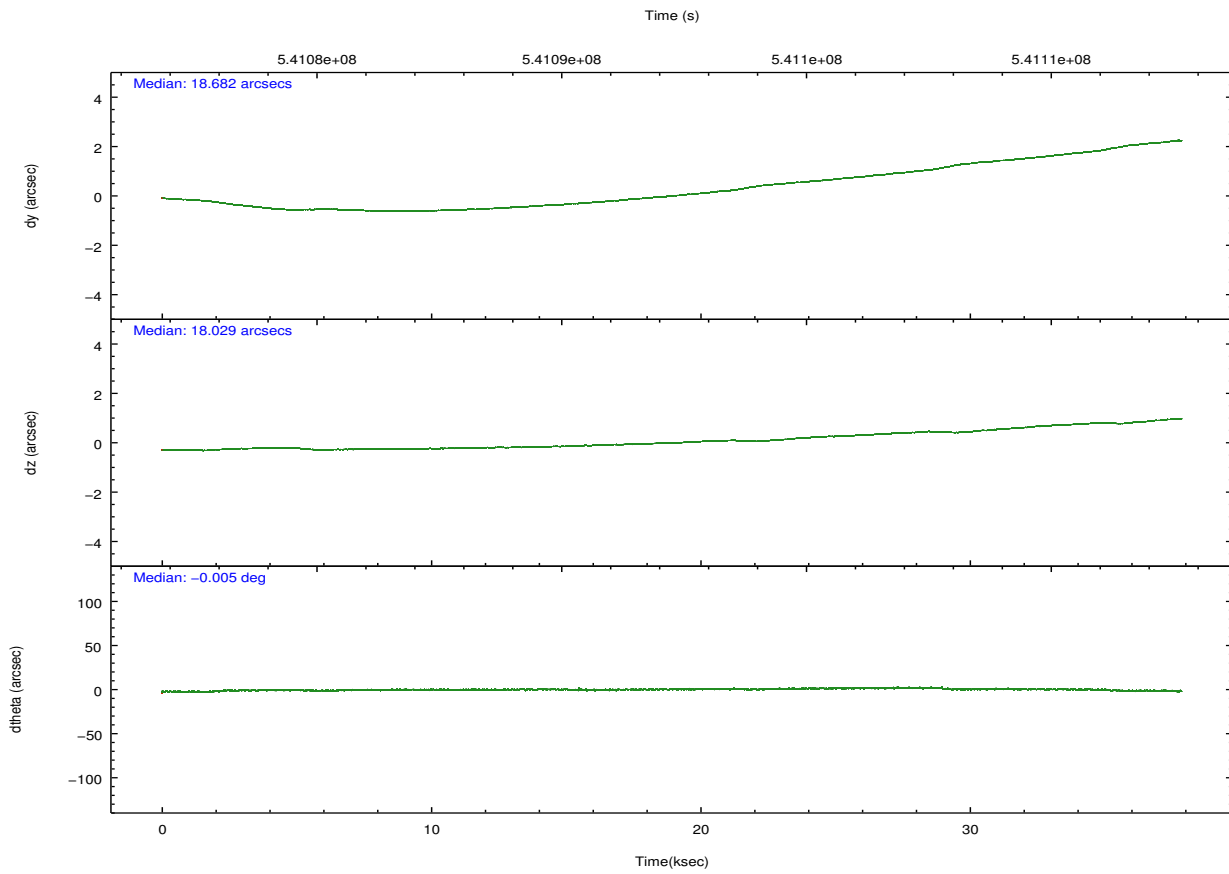
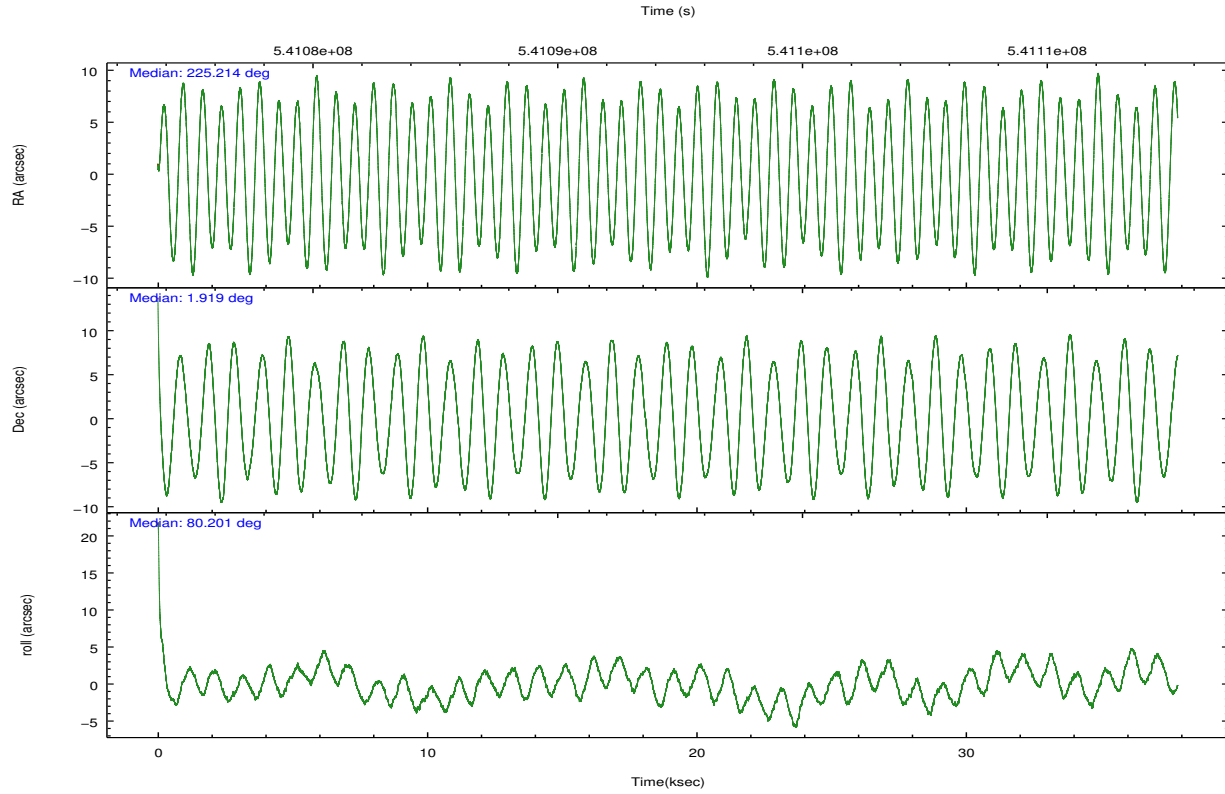
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6724	7429	7183	9182	18019
	4%	4%	4%	4%	8%
grade 1 events	80	113	87	252	202
	0%	0%	0%	0%	0%
grade 2 events	4336	4015	4702	20076	14795
	2%	2%	2%	10%	6%
grade 3 events	1769	1952	1909	7733	6300
	1%	1%	1%	3%	2%
grade 4 events	1880	1944	1981	7457	5973
	1%	1%	1%	3%	2%
grade 5 events	5711	7392	7445	19739	11131
	3%	4%	4%	10%	5%
grade 6 events	3189	3640	4496	47192	16151
	1%	2%	2%	24%	7%
grade 7 events	142048	137056	140399	81932	146856
	85%	83%	83%	42%	66%

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	225.224256	225.2144370041355	CCD I2 on	Y	Y
[deg] Pointing Dec	1.893842	1.919456127345984	CCD I3 on	O1	Y
[deg] Pointing Roll	80.052680	80.20964598599859	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	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	Y	Y
[s] Observation start time (MET)	541076430.184000	541074910.39732	CCD S5 on	N	N
Observation start date	2015-02-23T10:59:23	2015-02-23T10:35:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	541113430.184000	541114200.18701	On-chip summing requested	N	N
Observation end date	2015-02-23T21:16:03	2015-02-23T21:30:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





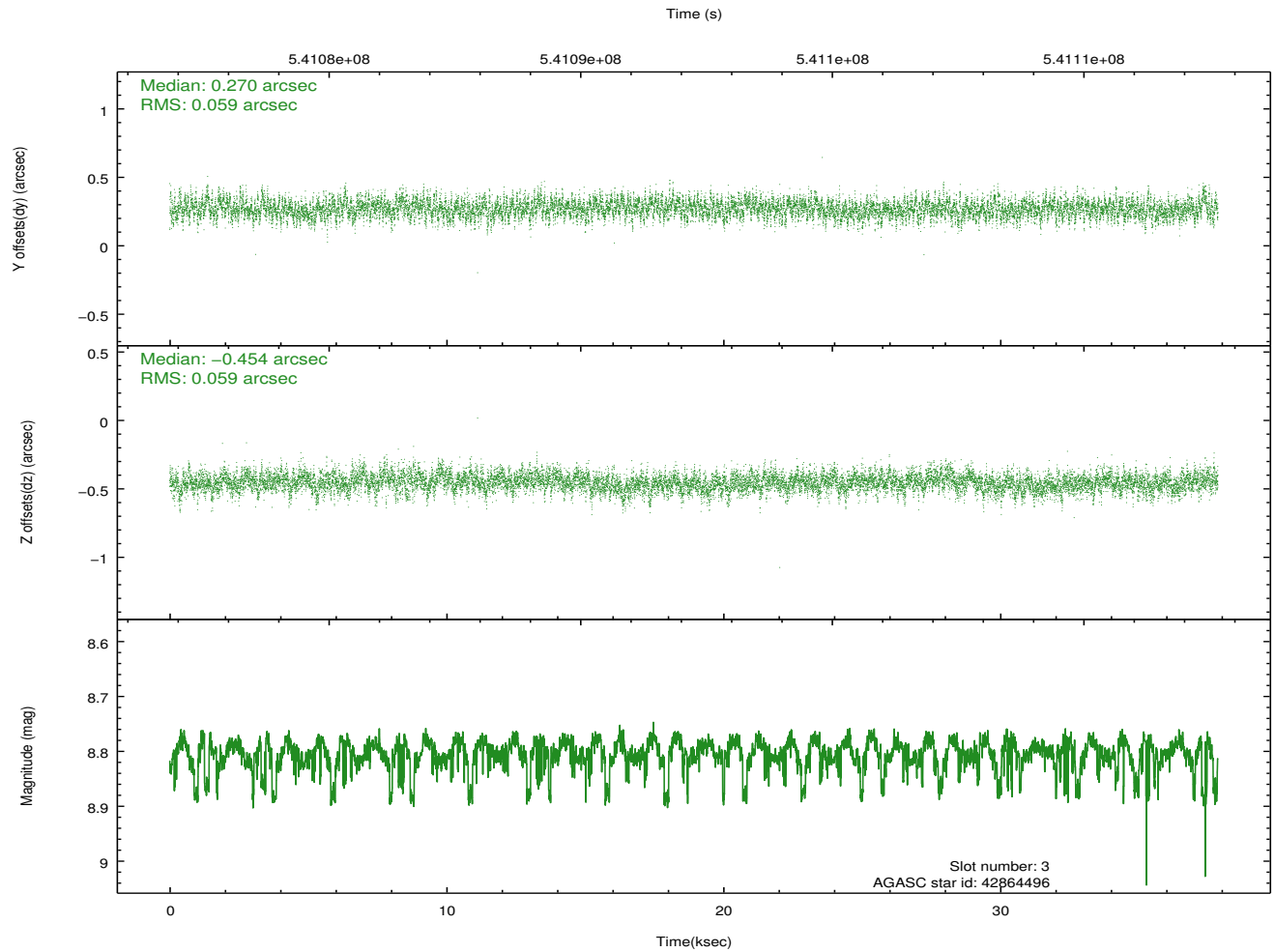
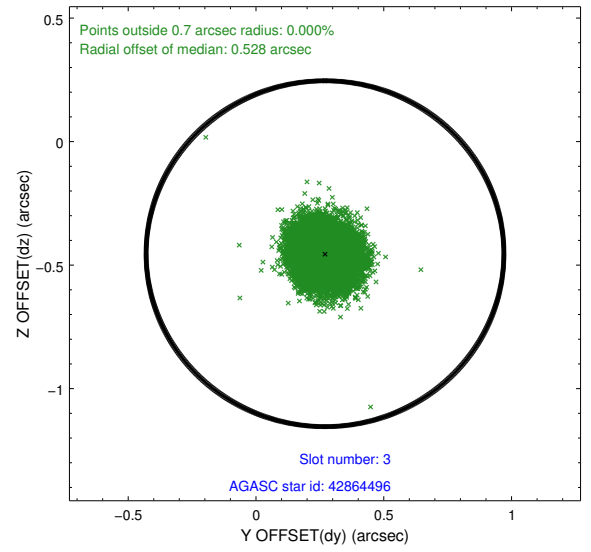
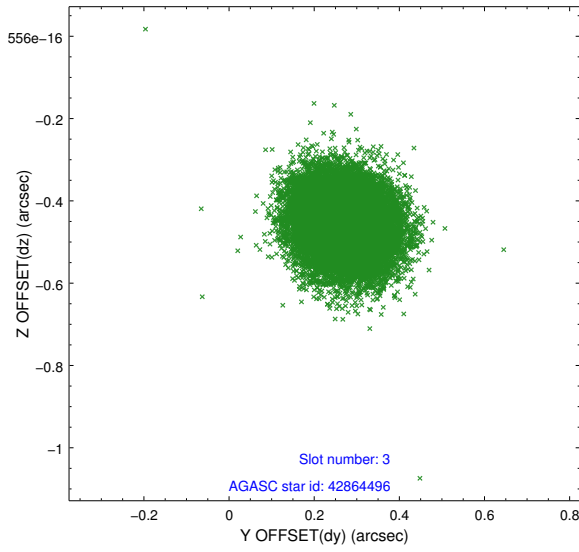
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.14	9235	0.096	-0.036	0.031	0.063	0.000000	0.000000	924.00	-1735.28
1	FID		ACIS-S-4	7.14	9234	0.262	-0.014	0.020	0.028	0.000000	0.000000	2141.60	168.88
2	FID		ACIS-S-5	7.16	9235	-0.382	0.063	0.022	0.057	0.000000	0.000000	-1825.29	162.57
3	GUIDE	used	42864496	8.80	18456	0.270	-0.454	0.088	0.146	224.530171	1.653443	-1283.59	2309.92
4	GUIDE	used	42864776	9.04	18456	0.257	-0.123	0.164	0.245	224.993302	1.618488	-1121.00	647.71
5	GUIDE	used	43782432	8.09	18469	0.114	-0.013	0.088	0.143	225.298629	1.853875	-95.00	-288.24
6	GUIDE	used	44303984	8.66	18458	-0.236	0.431	0.168	0.262	225.918266	2.386308	2178.53	-2151.56
7	GUIDE	used	44304040	8.09	18465	-0.402	0.163	0.094	0.159	225.823407	2.372575	2070.64	-1824.45

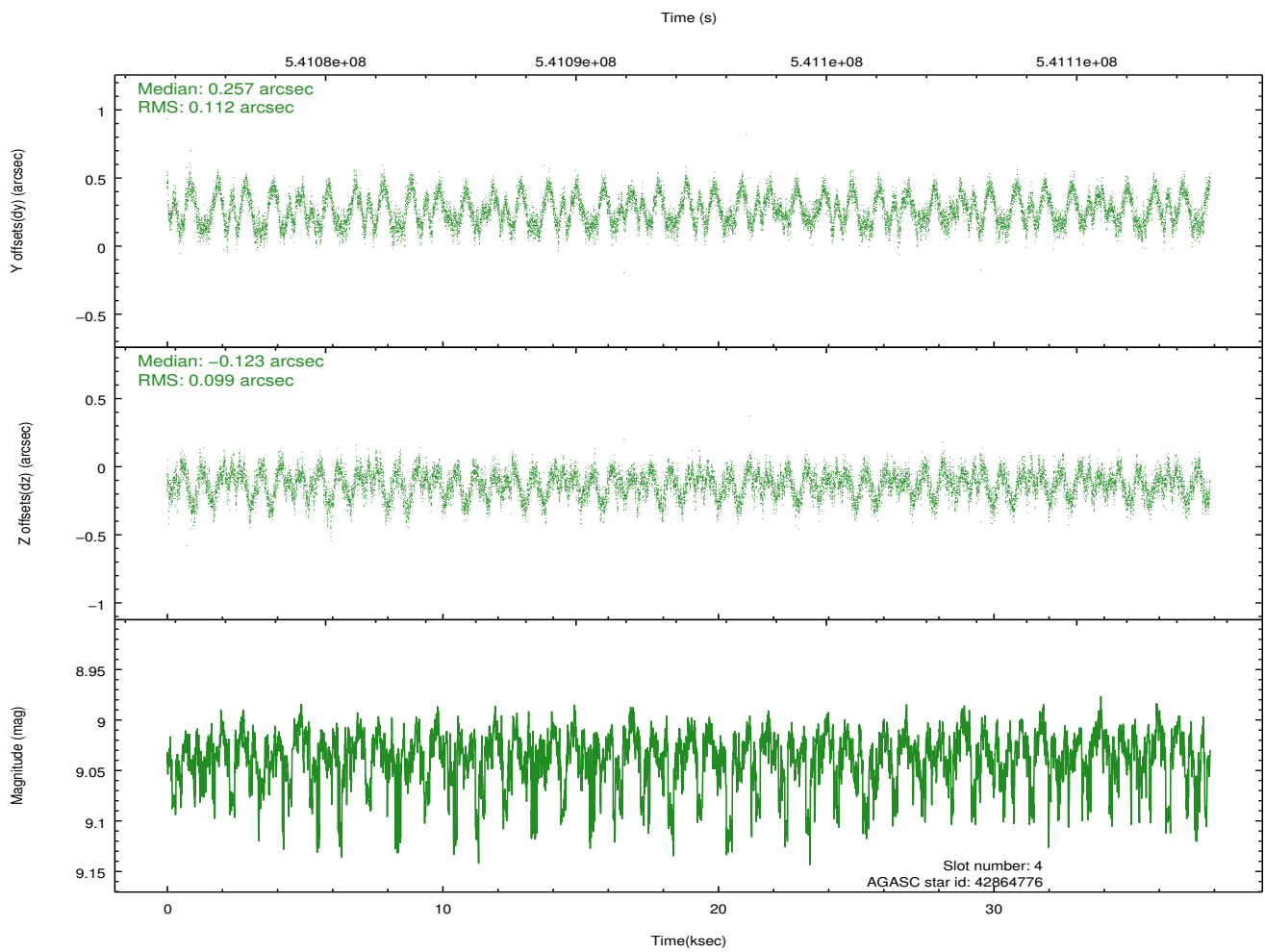
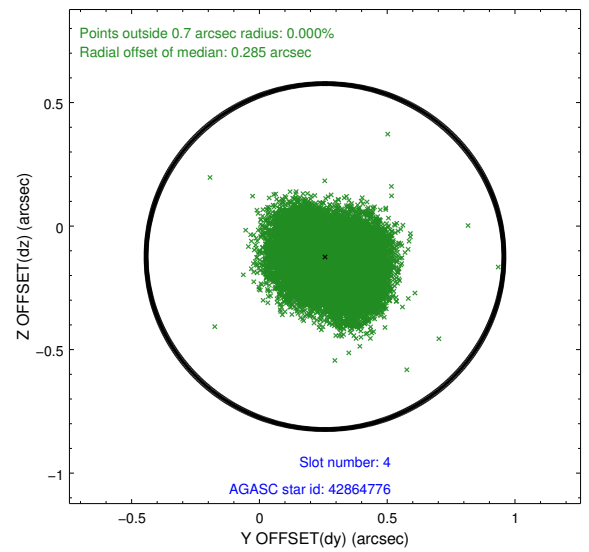
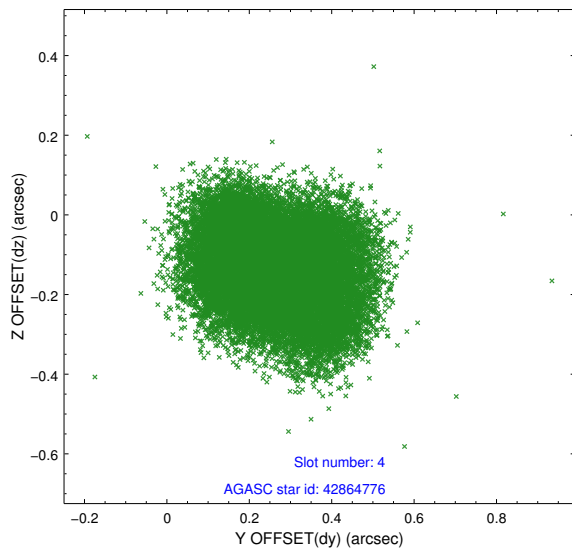
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2.4 Star Slots

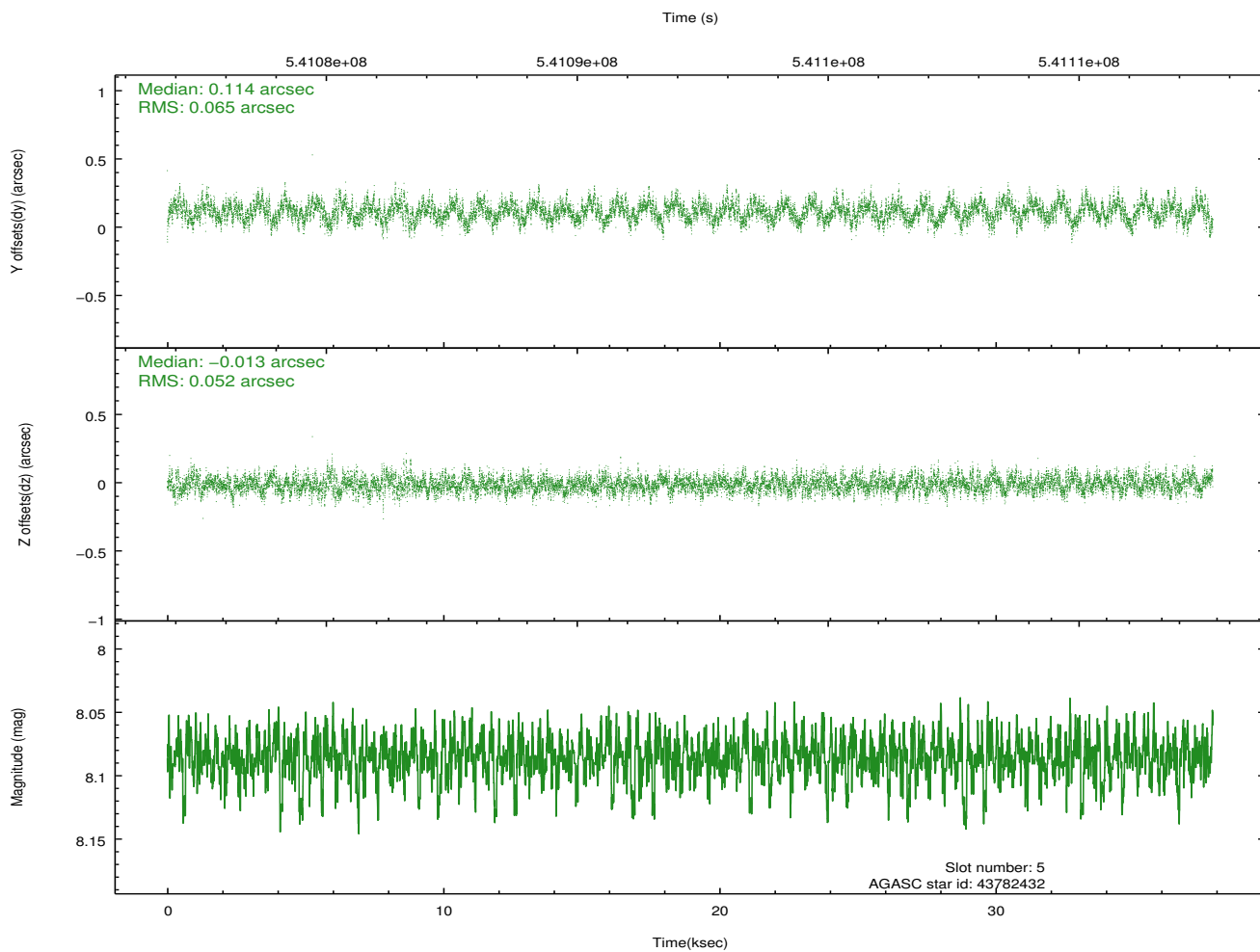
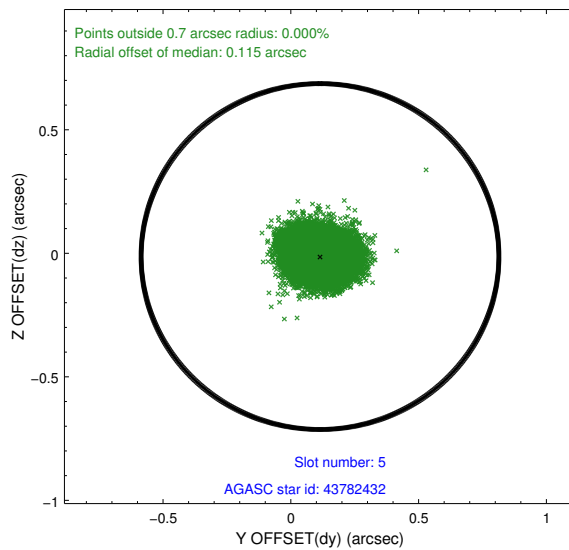
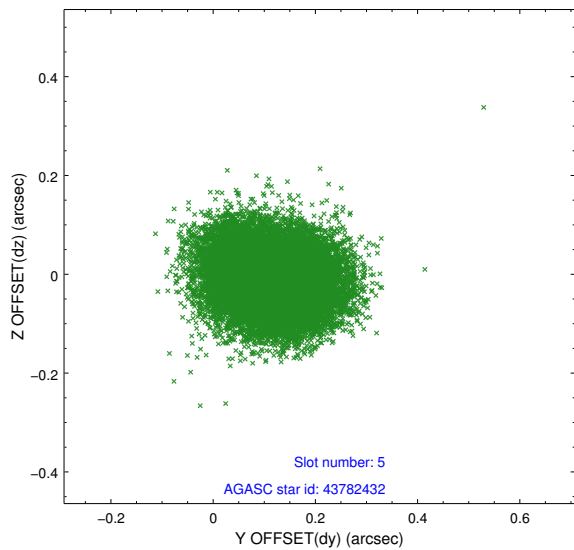
2.4.1 Slot 3



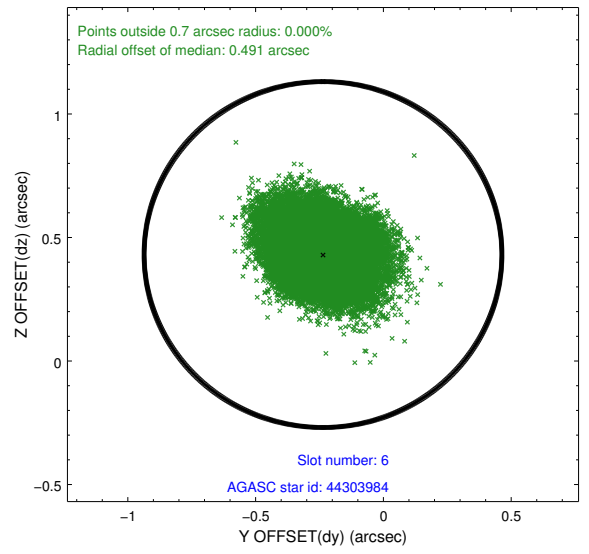
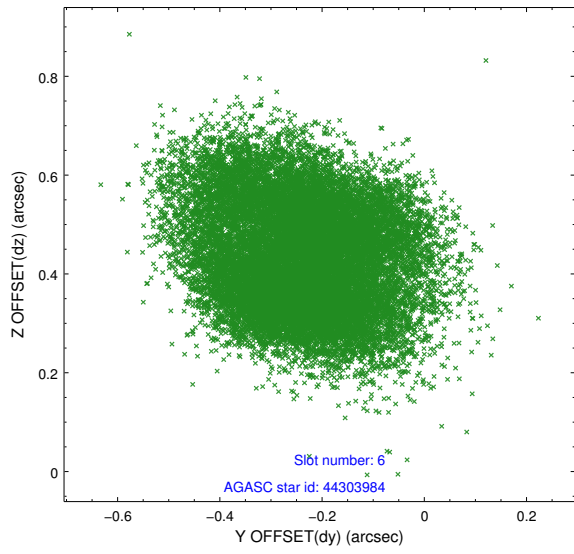
2.4.2 Slot 4



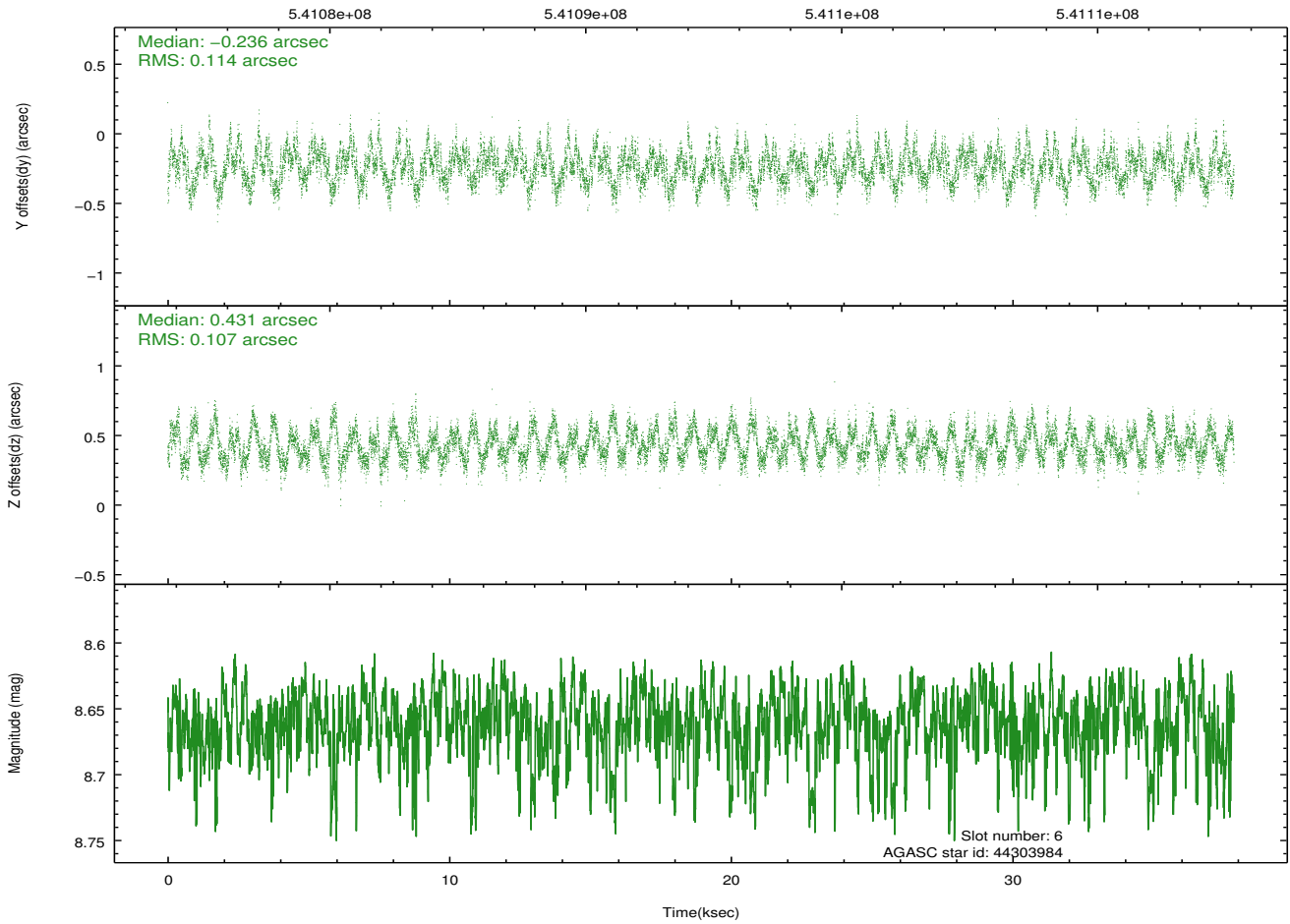
2.4.3 Slot 5



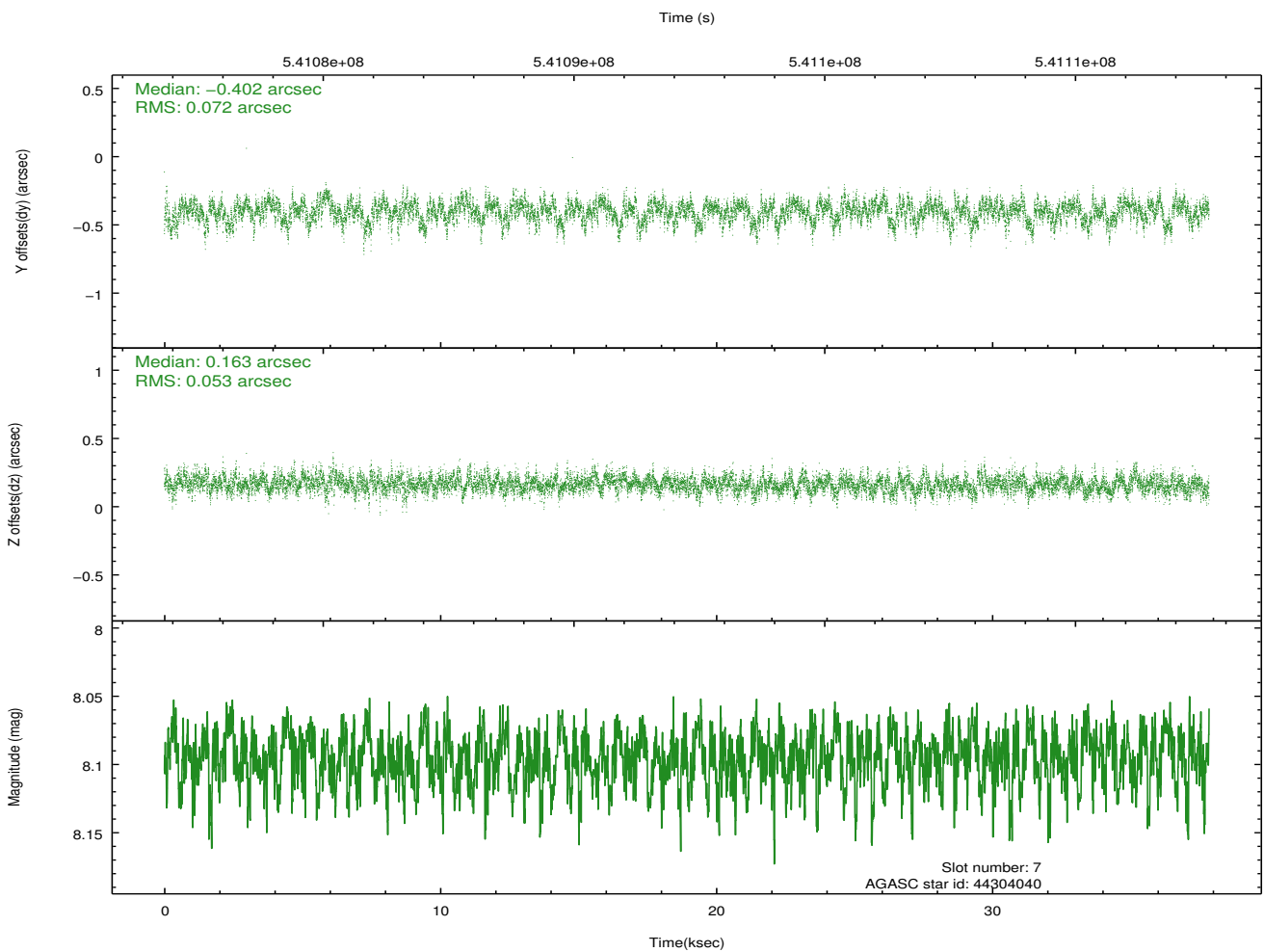
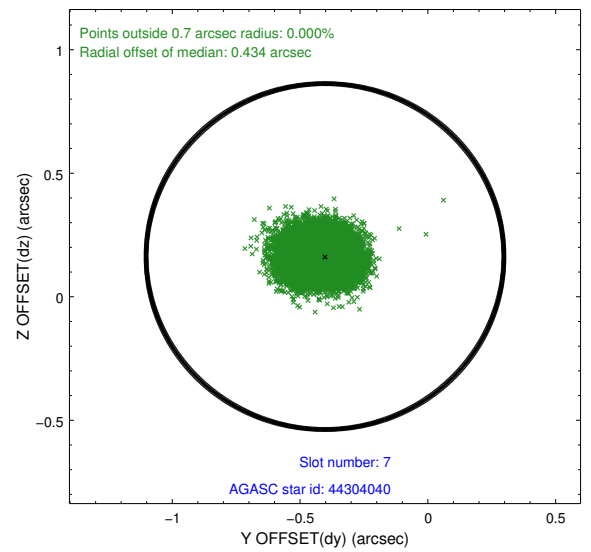
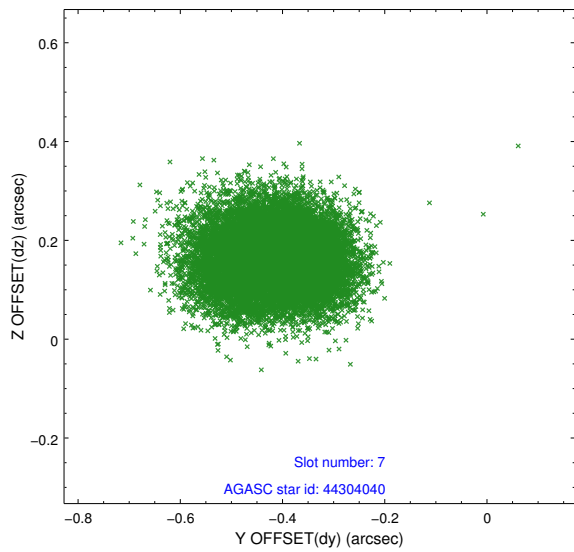
2.4.4 Slot 6



Time (s)

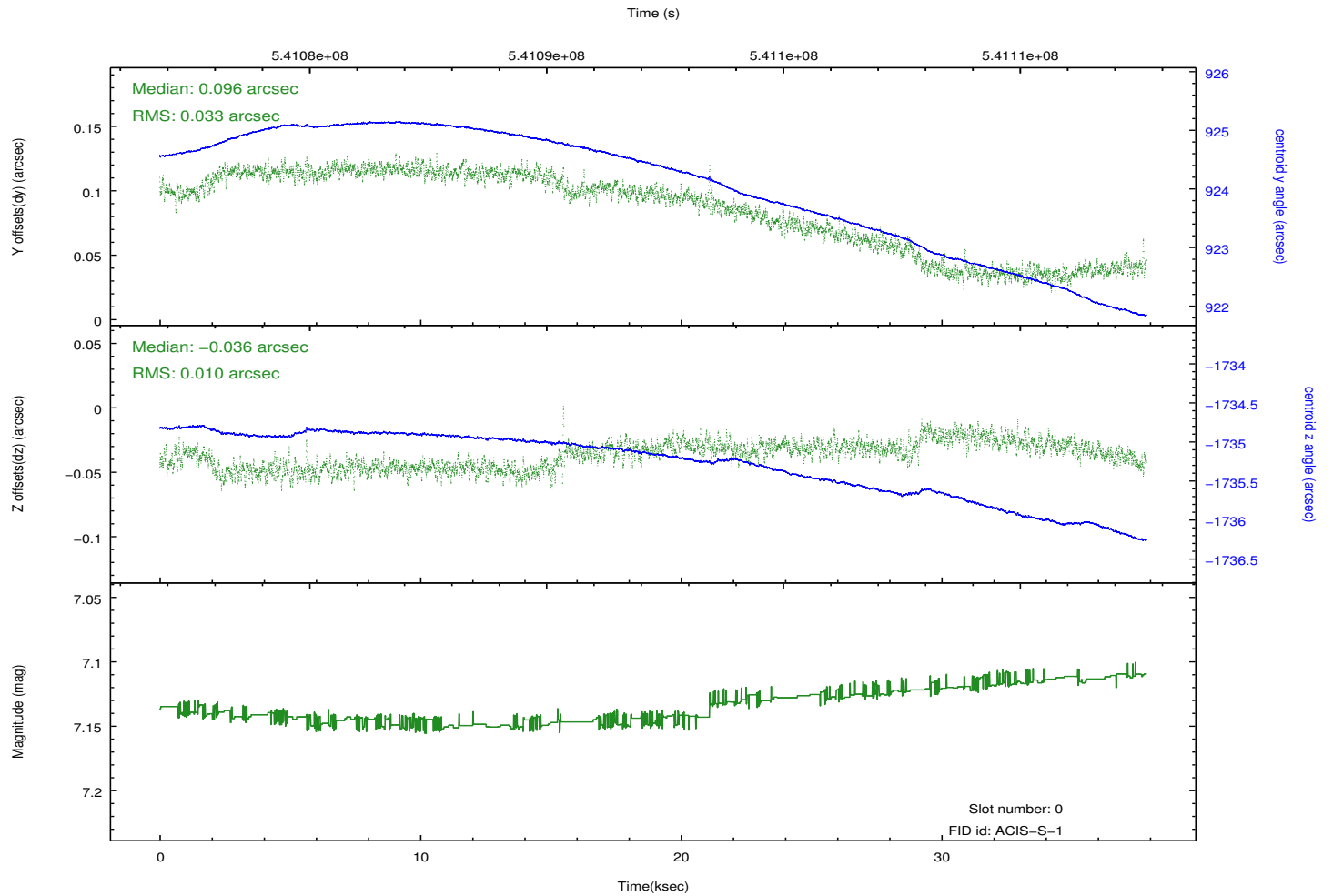
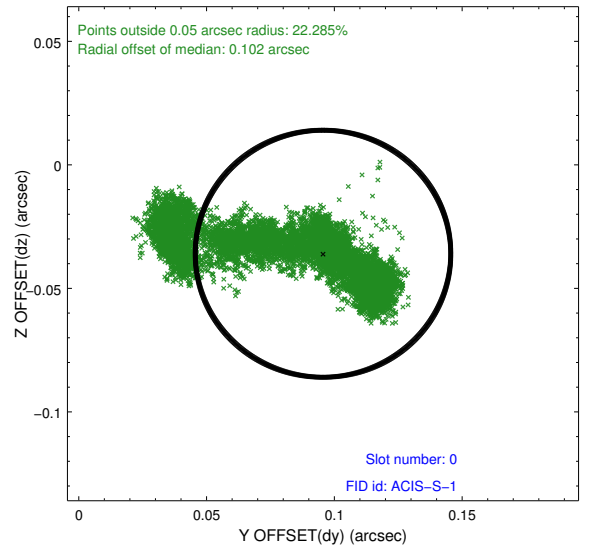
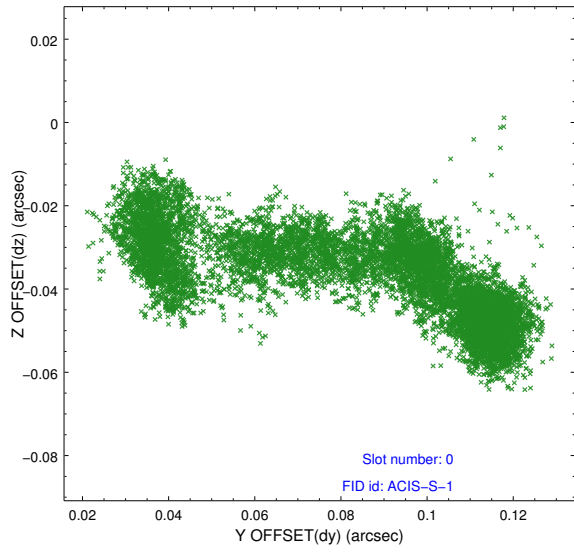


2.4.5 Slot 7

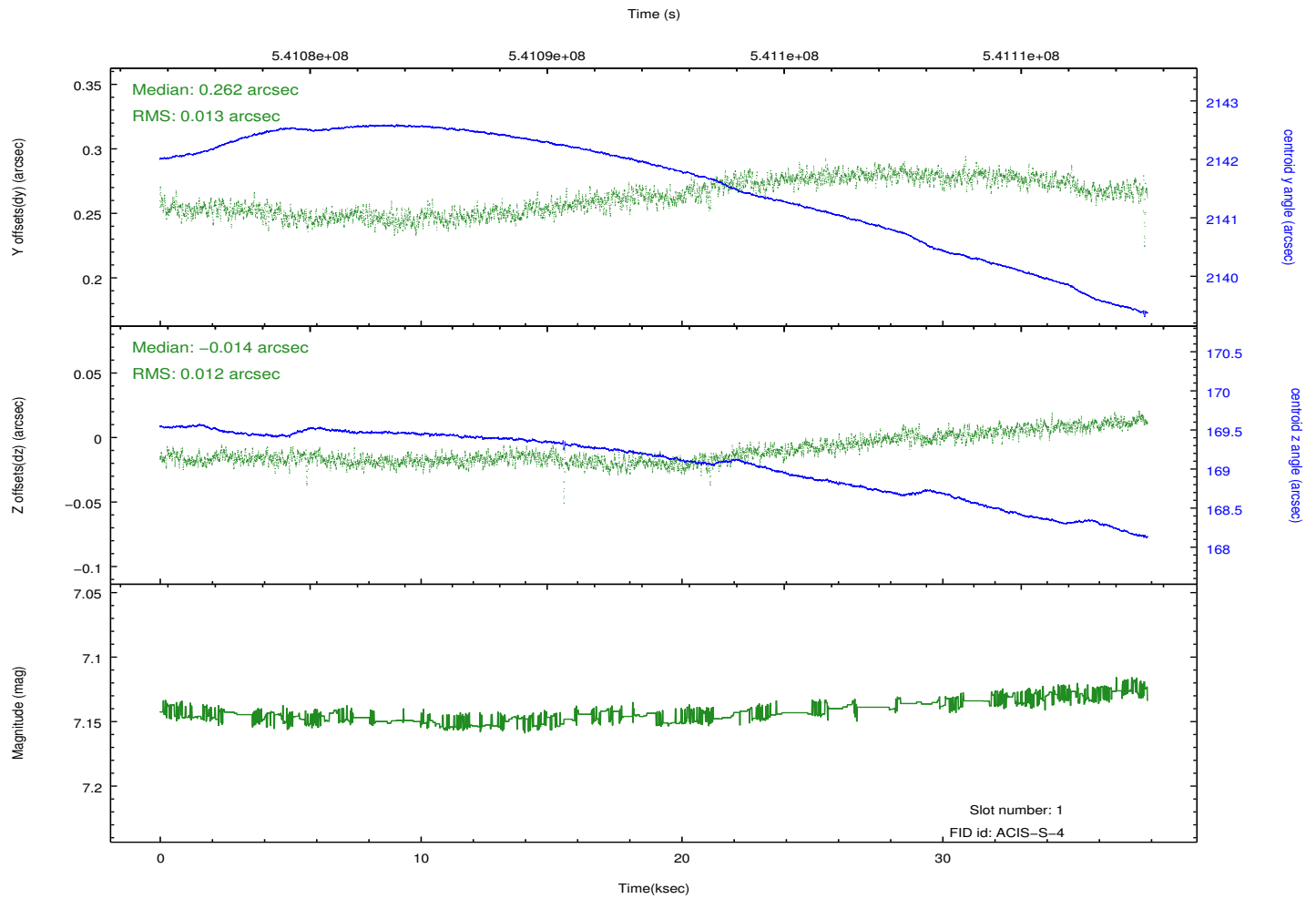
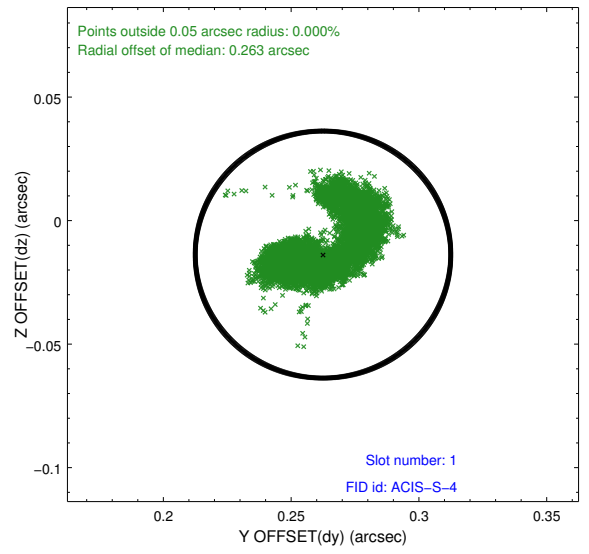
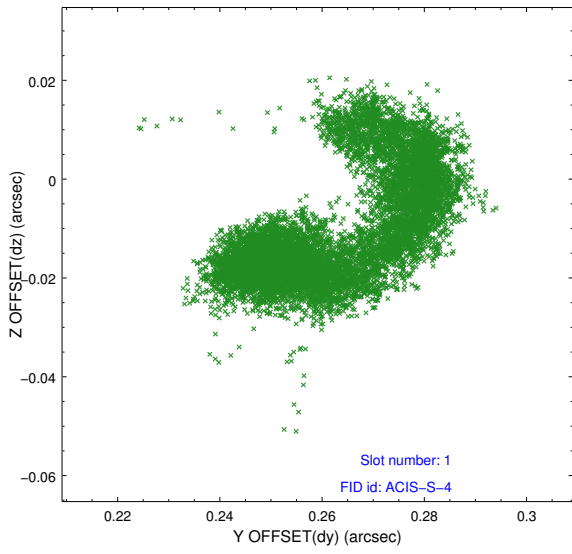


2.5 FID Slots

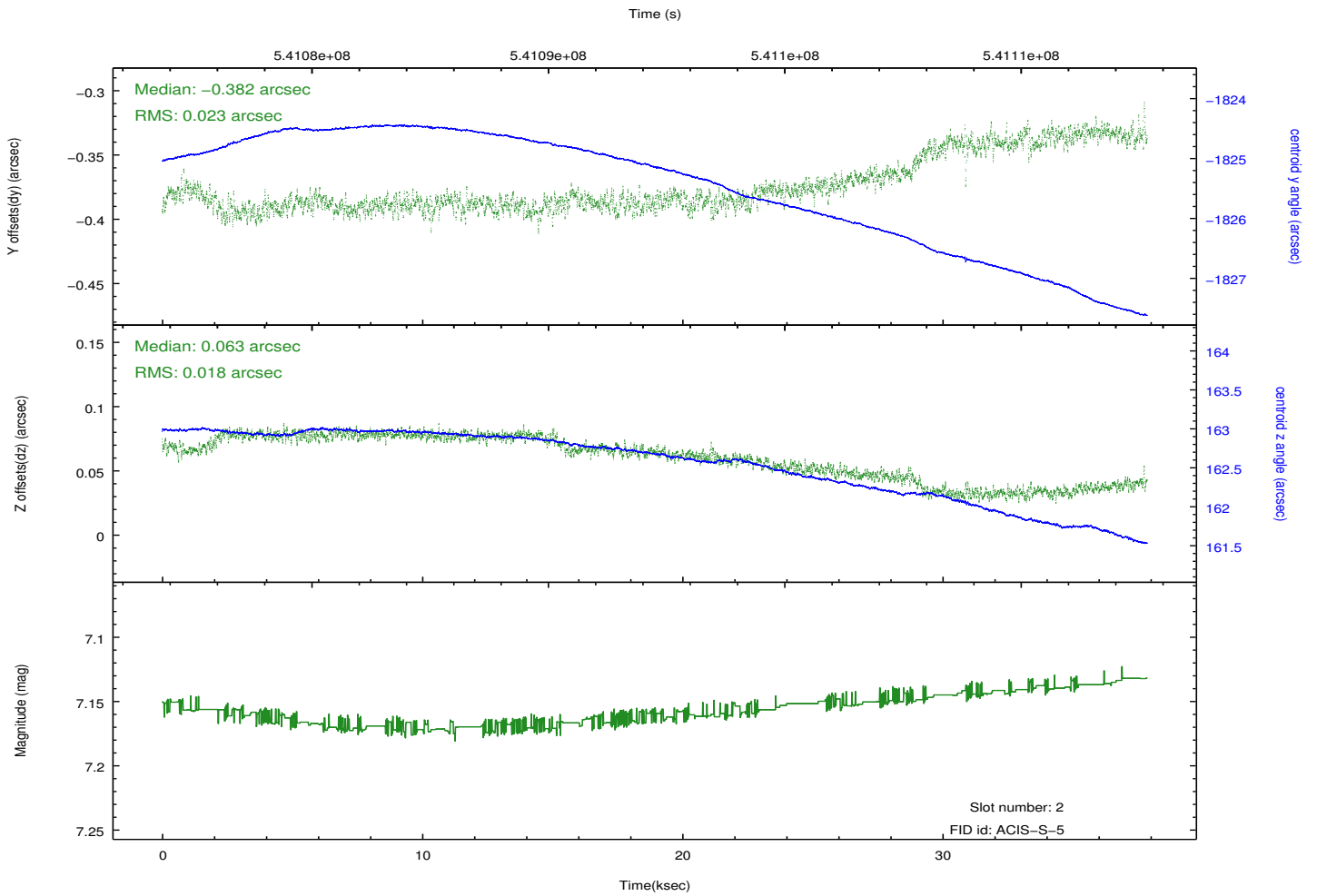
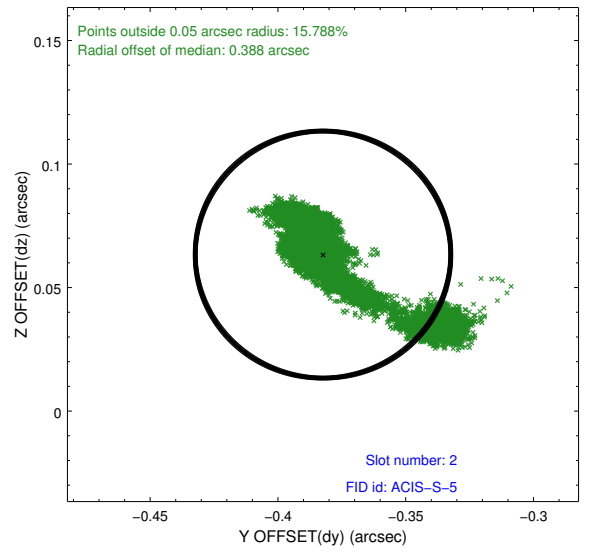
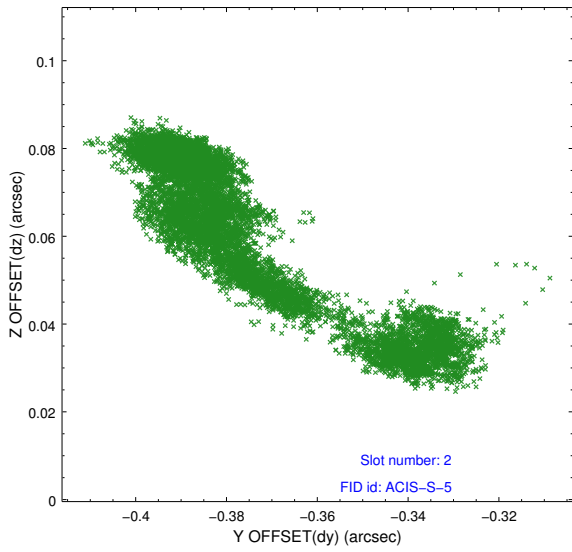
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.063600285172

A.2 Comments