

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18835 - L2 Version 1
Chandra X-Ray Center

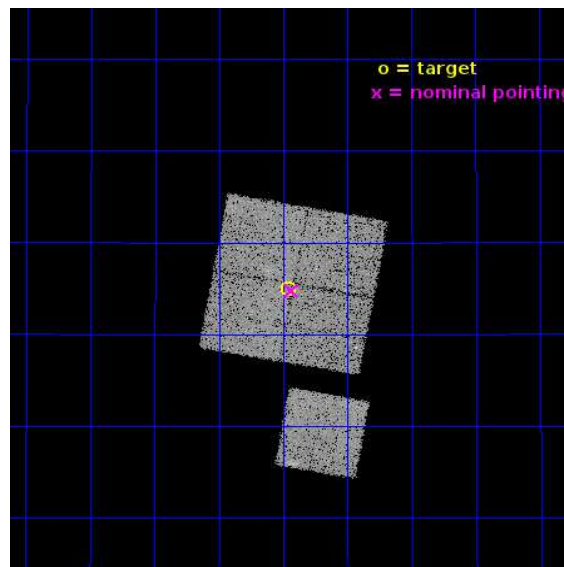
L2 Processing Date : Apr 28 2016

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1 Front

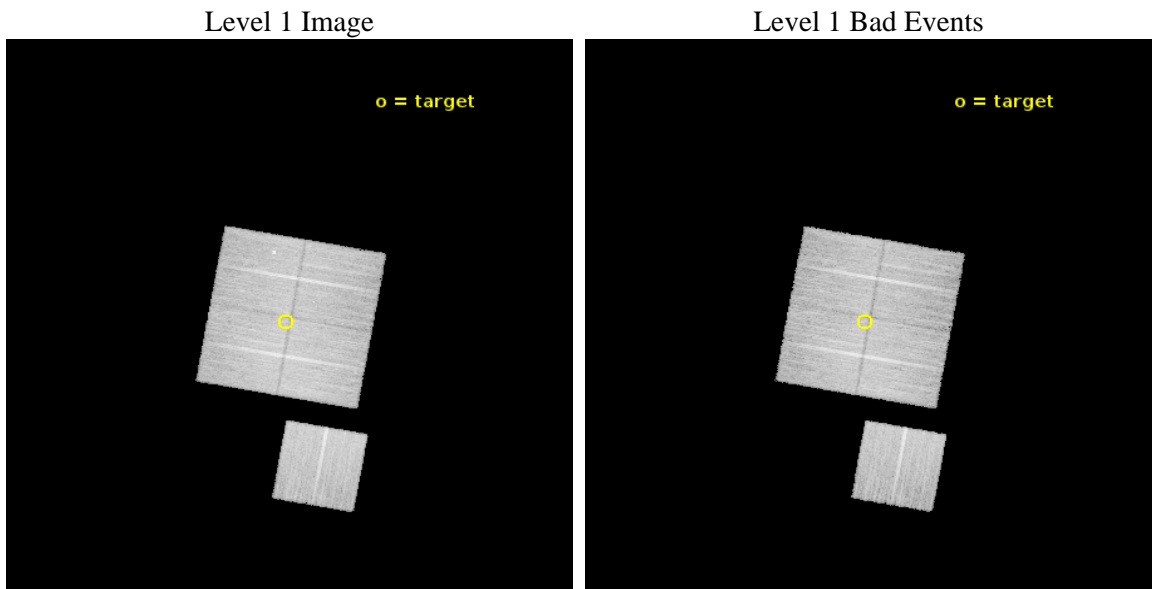
seq_num	801501	Sequence number
obs_id	18835	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.991133	Observer's specified target RA [deg]
dec_targ	26.249931	Observer's specified target Dec [deg]
ra_nom	206.98419574597	Nominal RA [deg]
dec_nom	26.246132041995	Nominal Dec [deg]
roll_nom	190.21176788922	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19052.317370176	Sum of GTIs [s]
livetime	18803.384817623	Livetime [s]
ontime0	19058.476390719	Sum of GTIs [s]
ontime1	19055.37637043	Sum of GTIs [s]
ontime2	19058.558470726	Sum of GTIs [s]
ontime3	19052.317370176	Sum of GTIs [s]
ontime6	19058.435350657	Sum of GTIs [s]
l2events	55173	Number of level 2 events



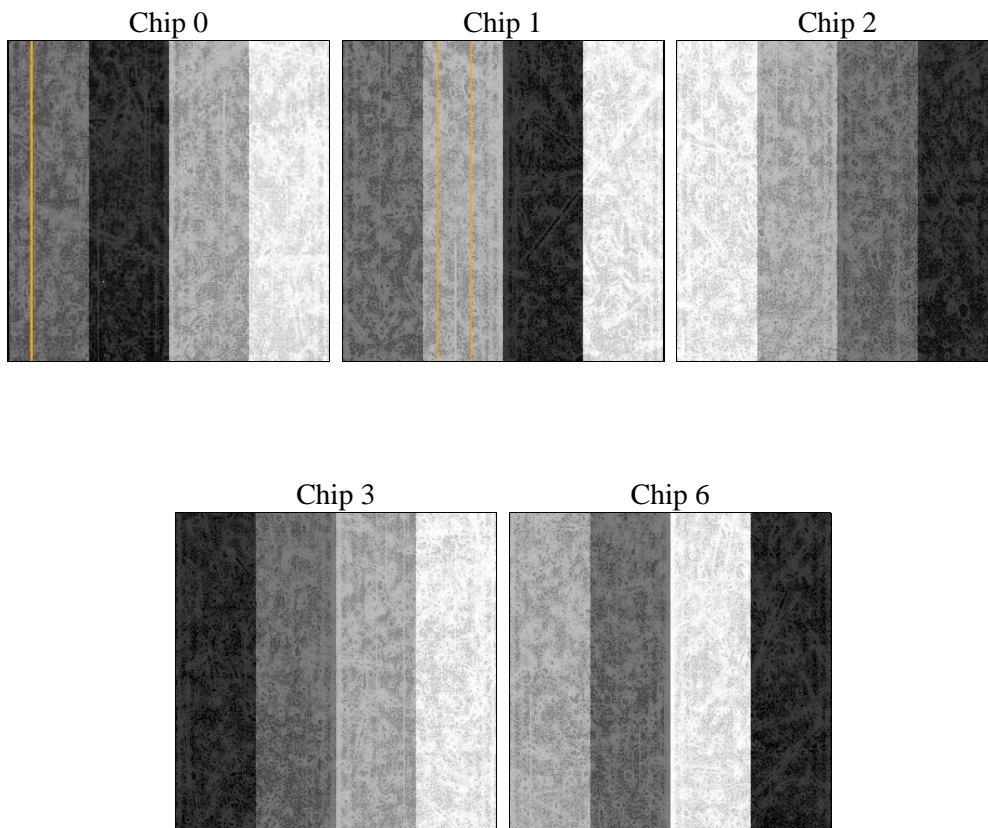
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	19052.317370176	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	19058.476390719	Sum of GTIs [s]
date	2016-04-28T05:54:46	Date and time of file creation	ontime1	19055.37637043	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19058.558470726	Sum of GTIs [s]
			ontime3	19052.317370176	Sum of GTIs [s]
			ontime6	19058.435350657	Sum of GTIs [s]
			l1events	595629	Number of level 1 events

2.1.4 Events

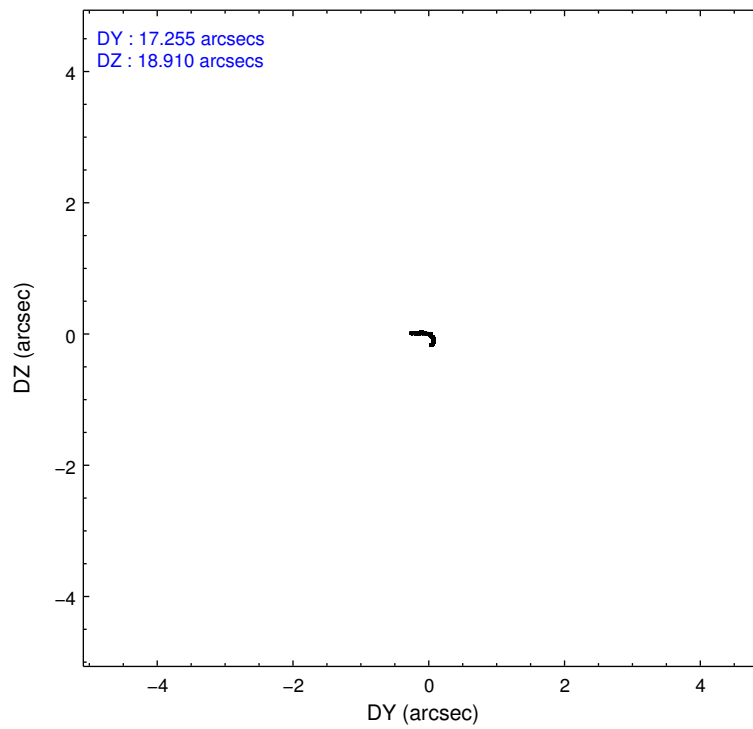
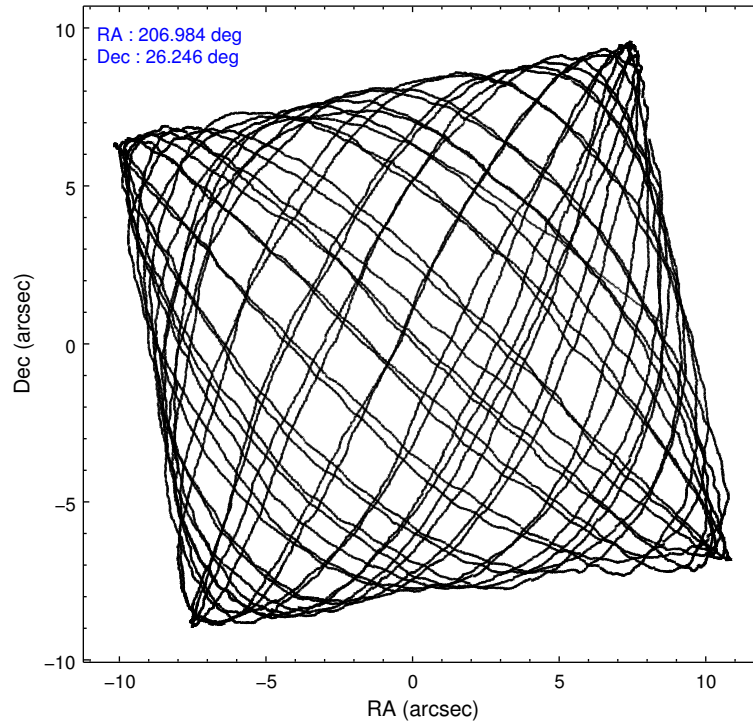
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	107973	116043	127679	121480	122454
rejected events	94895	101316	115563	109093	108954
rejected %	87%	87%	90%	89%	88%

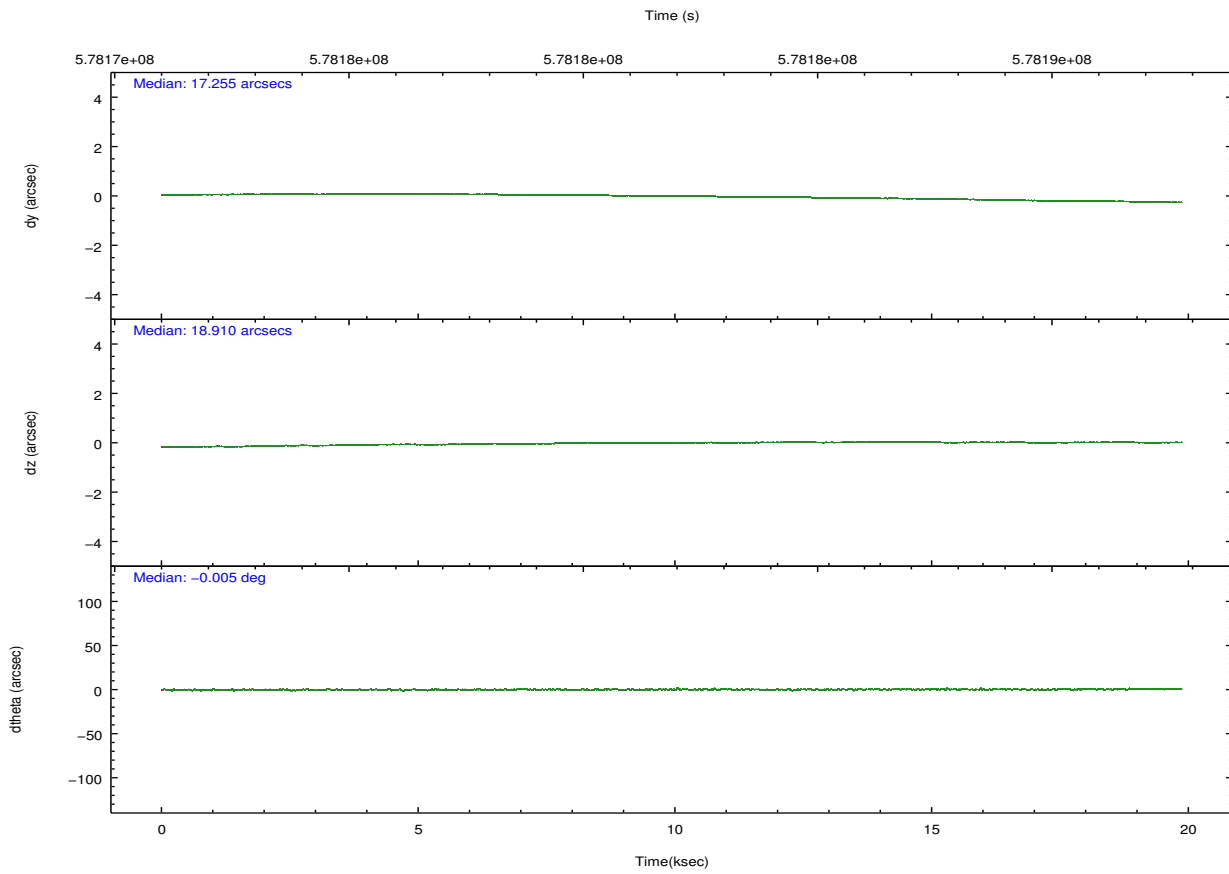
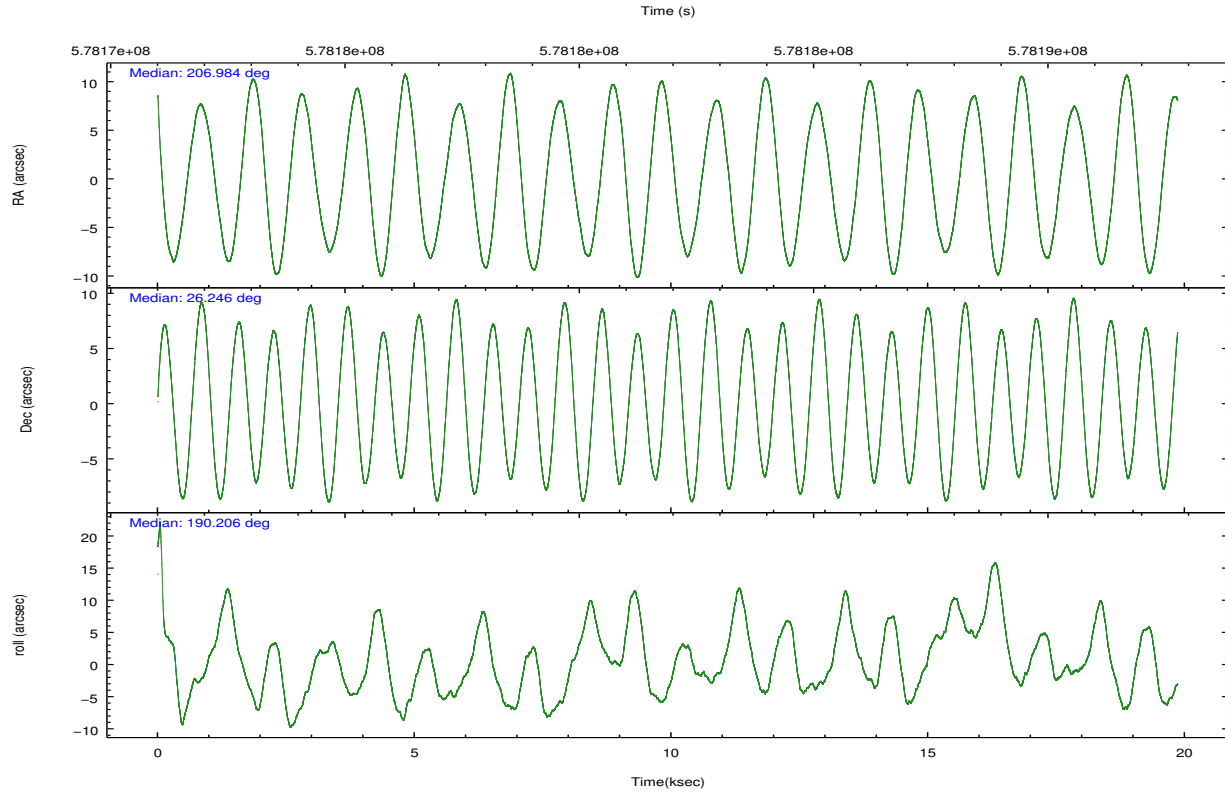
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4452	5312	4220	4248	4222
	4%	4%	3%	3%	3%
grade 1 events	56	54	66	64	51
	0%	0%	0%	0%	0%
grade 2 events	3175	3487	2949	2717	3377
	2%	3%	2%	2%	2%
grade 3 events	1369	1339	1196	1344	1252
	1%	1%	0%	1%	1%
grade 4 events	1260	1244	1323	1299	1273
	1%	1%	1%	1%	1%
grade 5 events	4940	5300	4565	5785	5282
	4%	4%	3%	4%	4%
grade 6 events	2825	3346	2428	2781	3378
	2%	2%	1%	2%	2%
grade 7 events	89896	95961	110932	103242	103619
	83%	82%	86%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	207.007642	206.9841957459709	CCD I2 on	Y	Y
[deg] Pointing Dec	26.264030	26.24613204199519	CCD I3 on	Y	Y
[deg] Pointing Roll	189.992704	190.2117678892192	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	578172838.184000	578171563.5677	CCD S5 on	N	N
Observation start date	2016-04-27T19:32:50	2016-04-27T19:12:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	578191838.184000	578192445.89389	On-chip summing requested	N	N
Observation end date	2016-04-28T00:49:30	2016-04-28T01:00:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





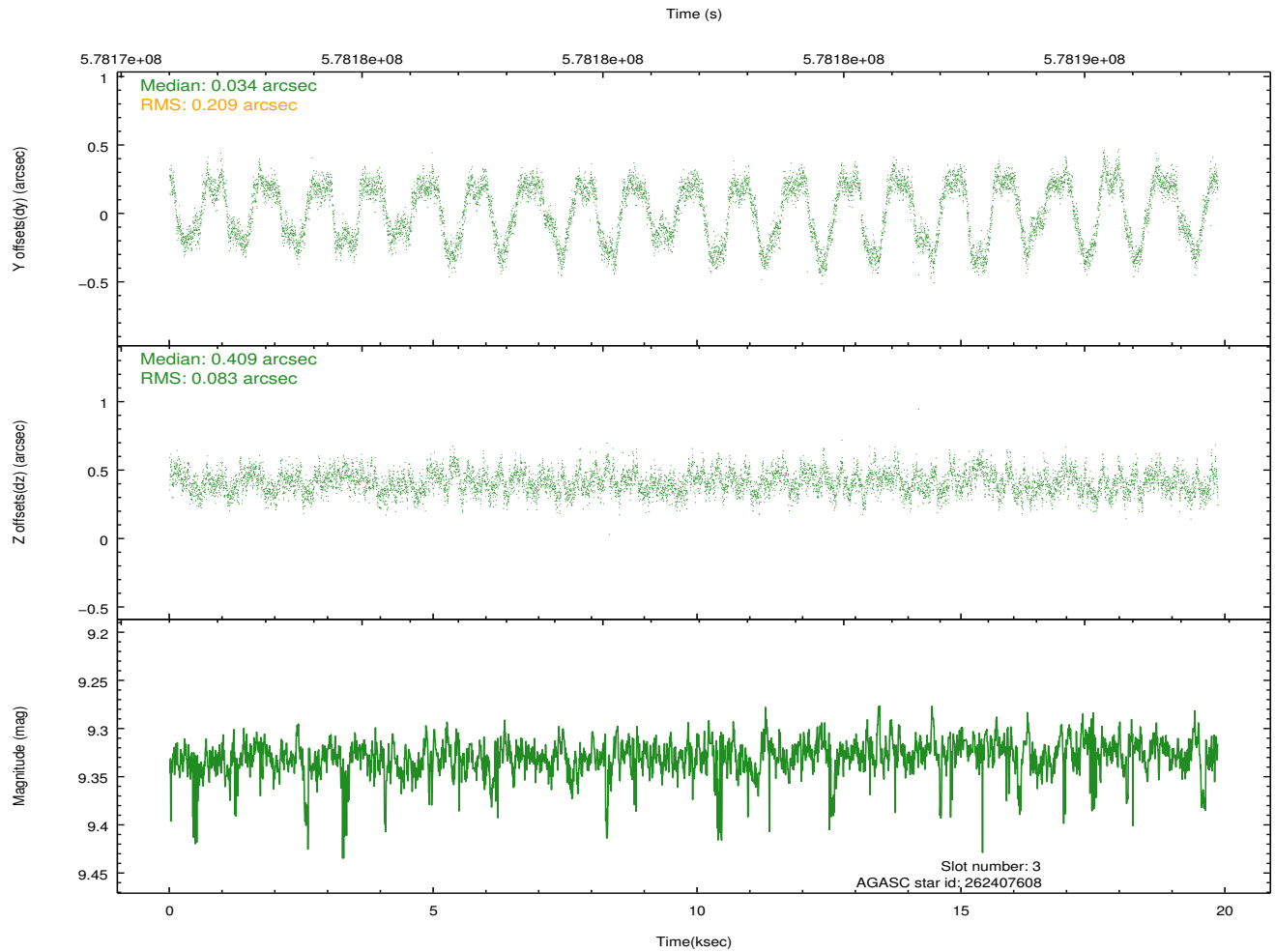
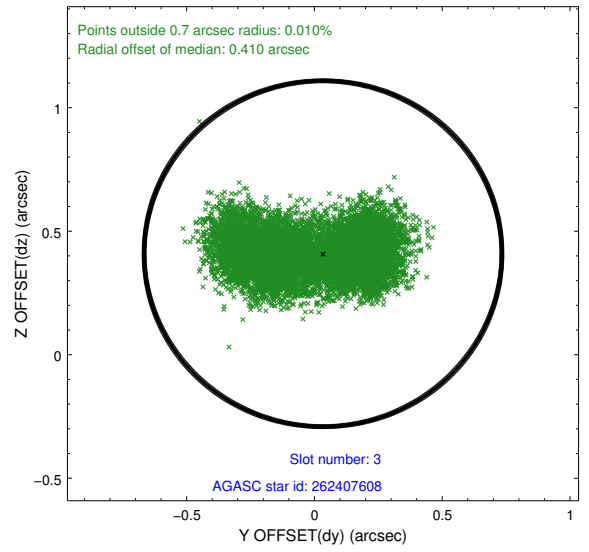
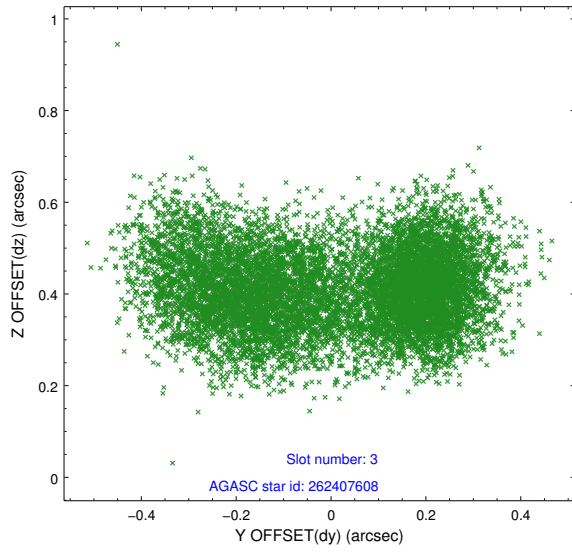
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	4845	0.055	0.002	0.007	0.013	0.000000	0.000000	922.28	-842.53
1	FID		ACIS-I-5	7.25	4845	-0.371	0.018	0.007	0.012	0.000000	0.000000	-1826.25	1054.73
2	FID		ACIS-I-6	7.27	4845	0.225	0.051	0.008	0.013	0.000000	0.000000	387.65	1699.60
3	GUIDE	used	262407608	9.33	9678	0.034	0.409	0.240	0.381	207.378401	26.435507	-1284.42	-401.44
4	GUIDE	used	262408096	9.34	9685	0.253	0.115	0.201	0.313	207.011678	26.515421	-168.96	-888.90
5	GUIDE	used	262408936	9.64	9676	0.148	0.071	0.299	0.449	207.154731	26.726554	-754.55	-1557.47
6	GUIDE	used	262411960	9.61	9644	-0.010	-0.084	0.263	0.414	207.327895	25.881727	-782.97	1534.21
7	GUIDE	used	262414584	6.11	9687	-0.450	-0.513	0.140	0.207	206.680511	25.702236	1395.80	1807.42

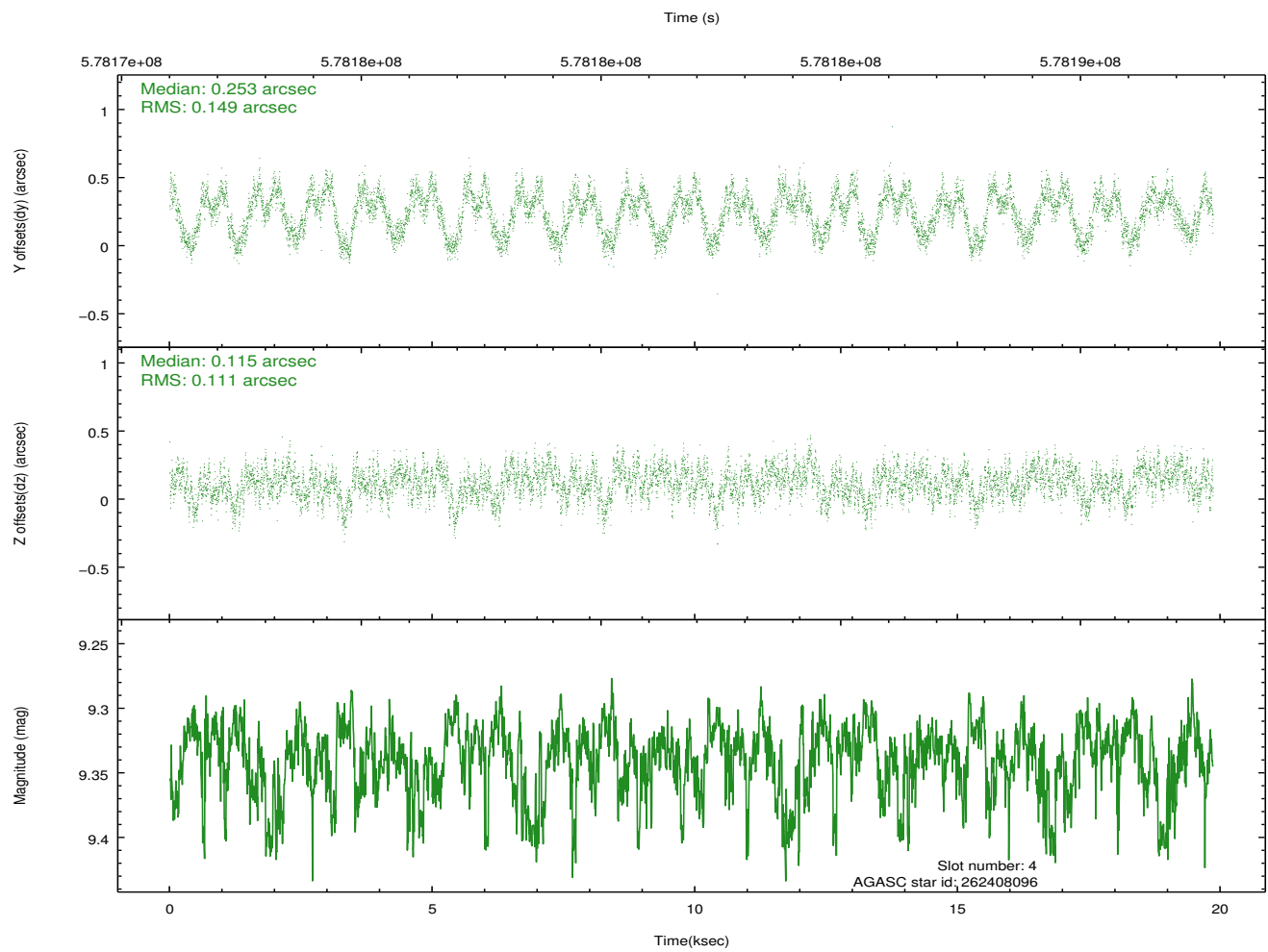
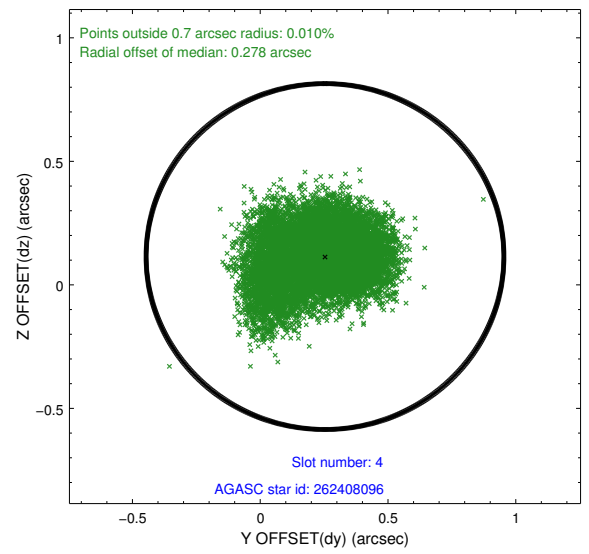
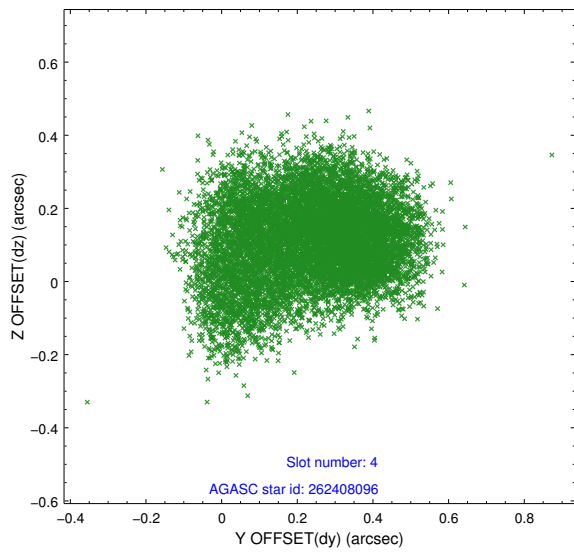
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2.4 Star Slots

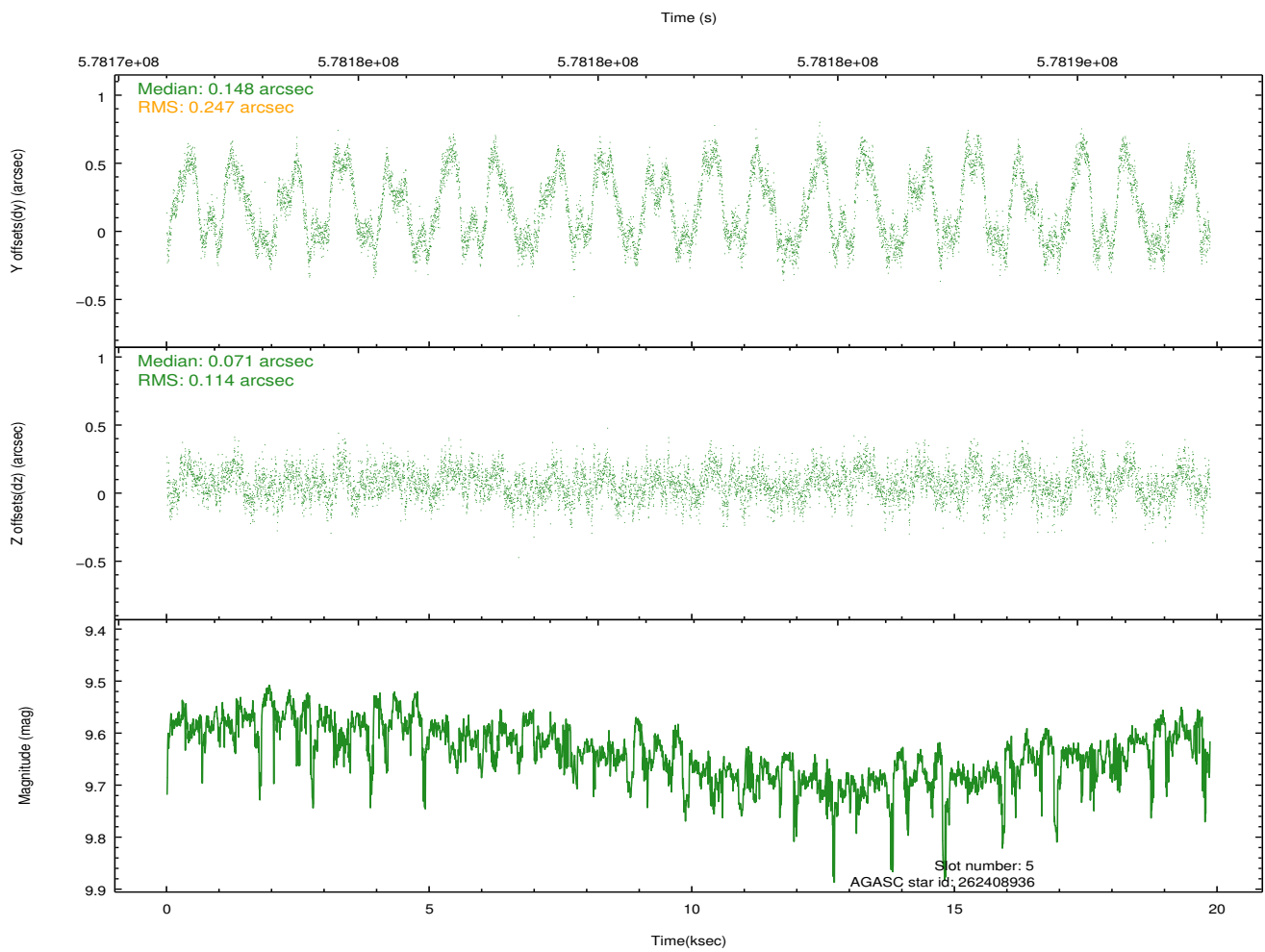
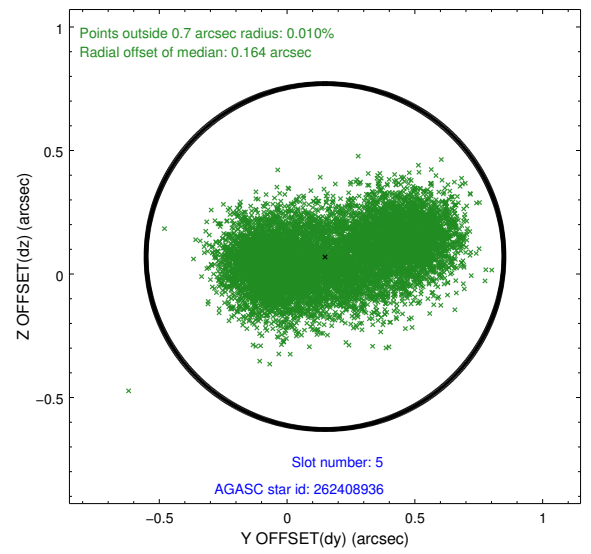
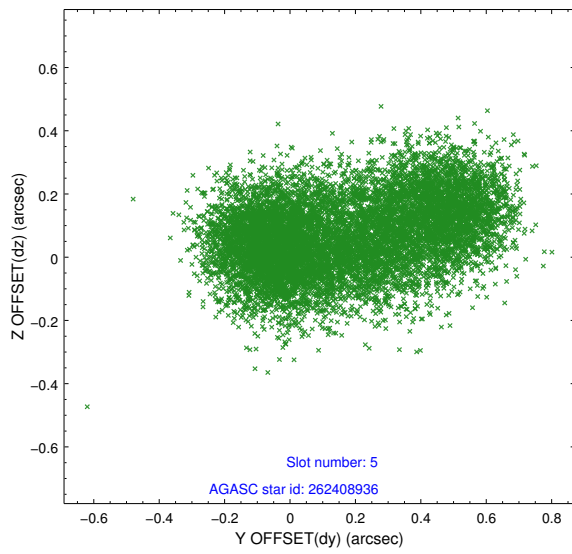
2.4.1 Slot 3



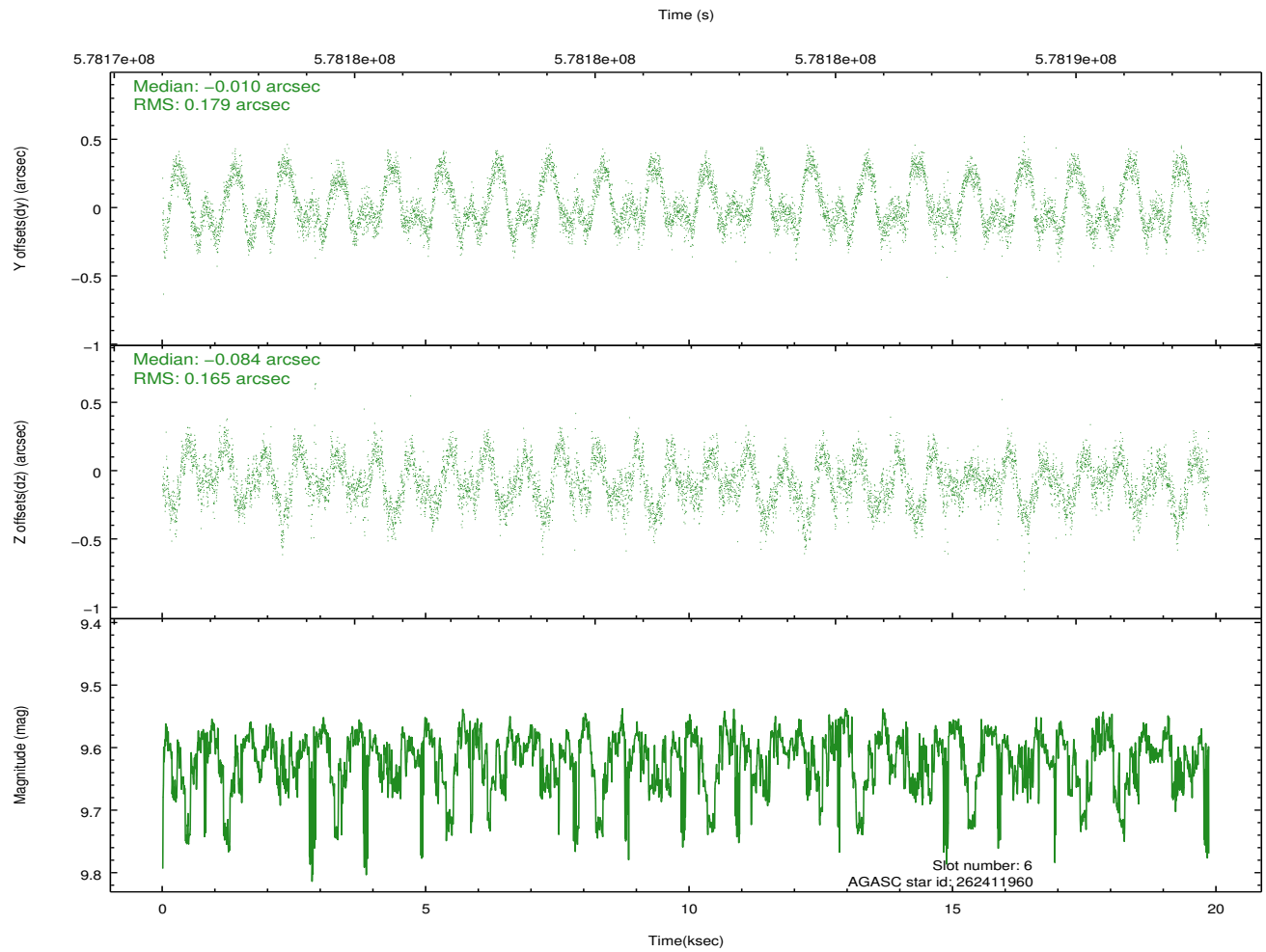
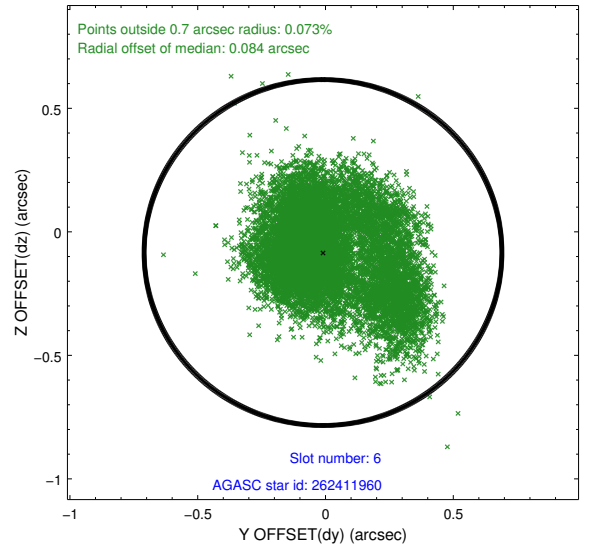
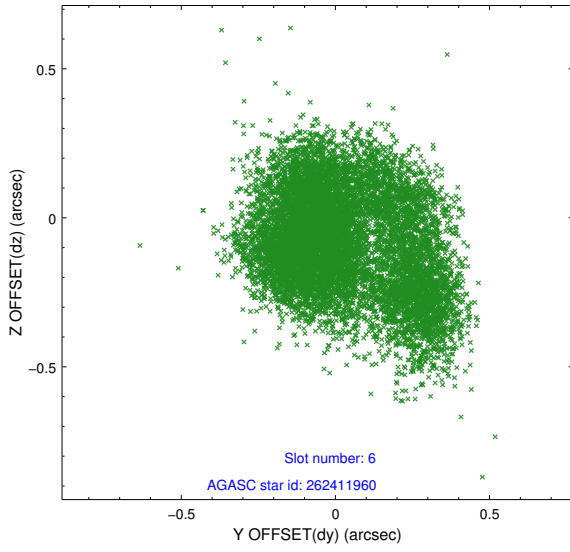
2.4.2 Slot 4



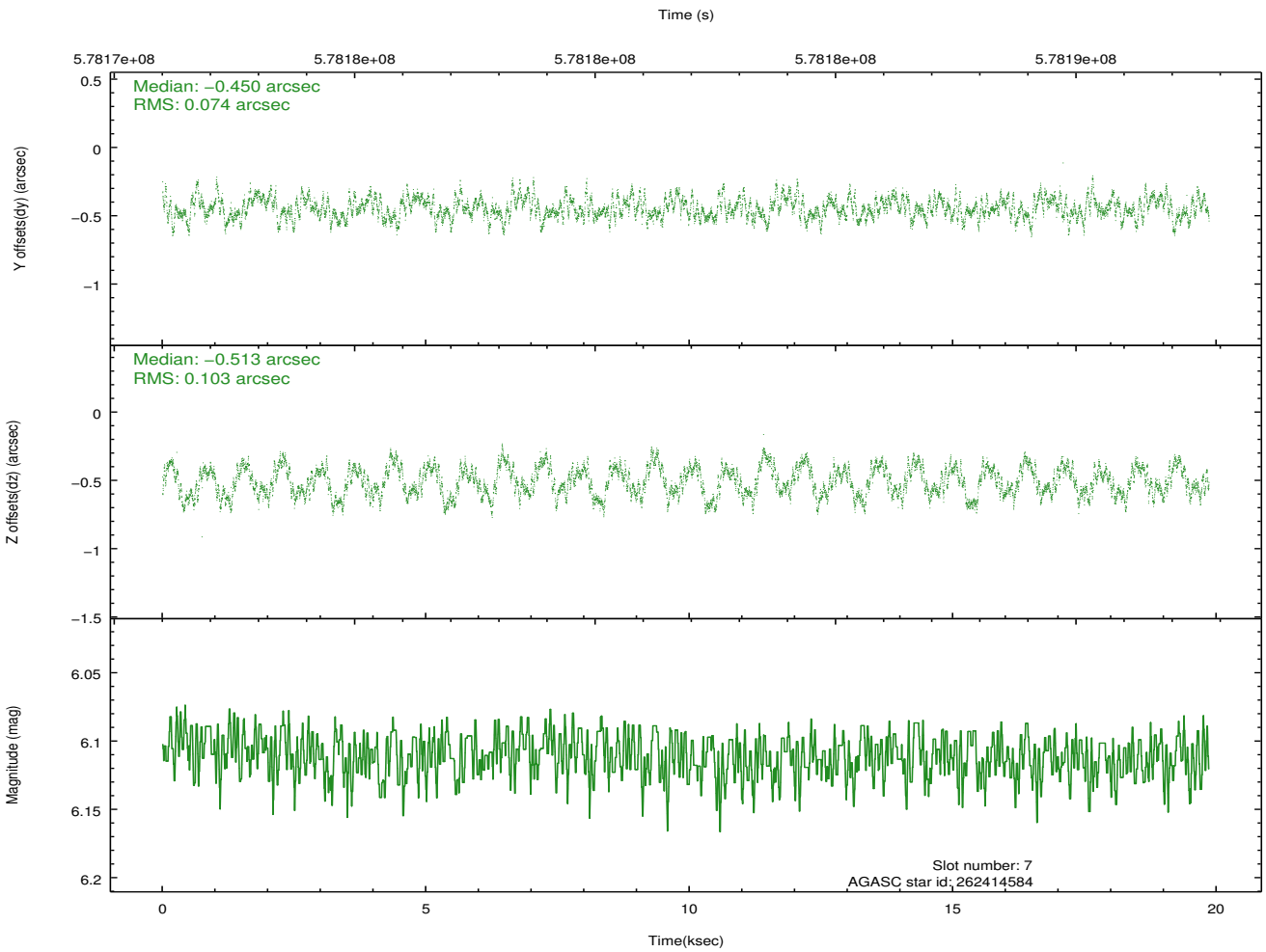
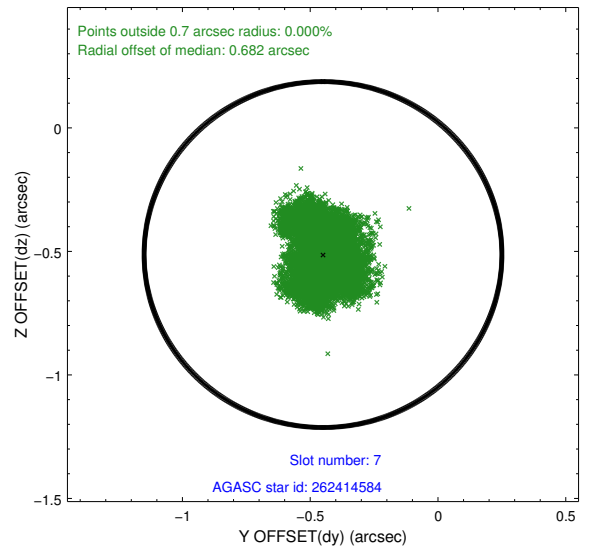
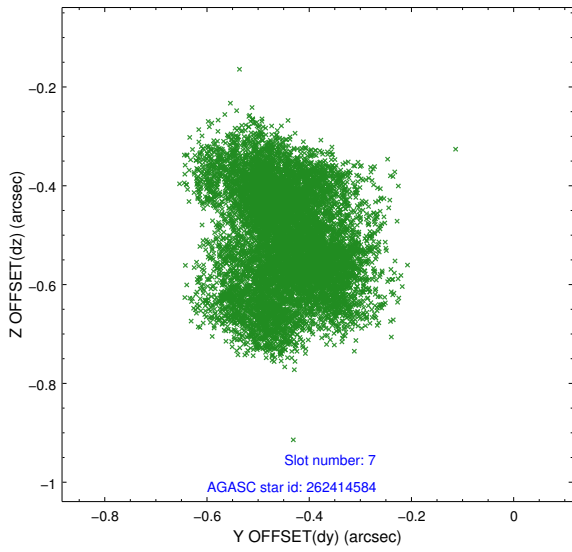
2.4.3 Slot 5



2.4.4 Slot 6

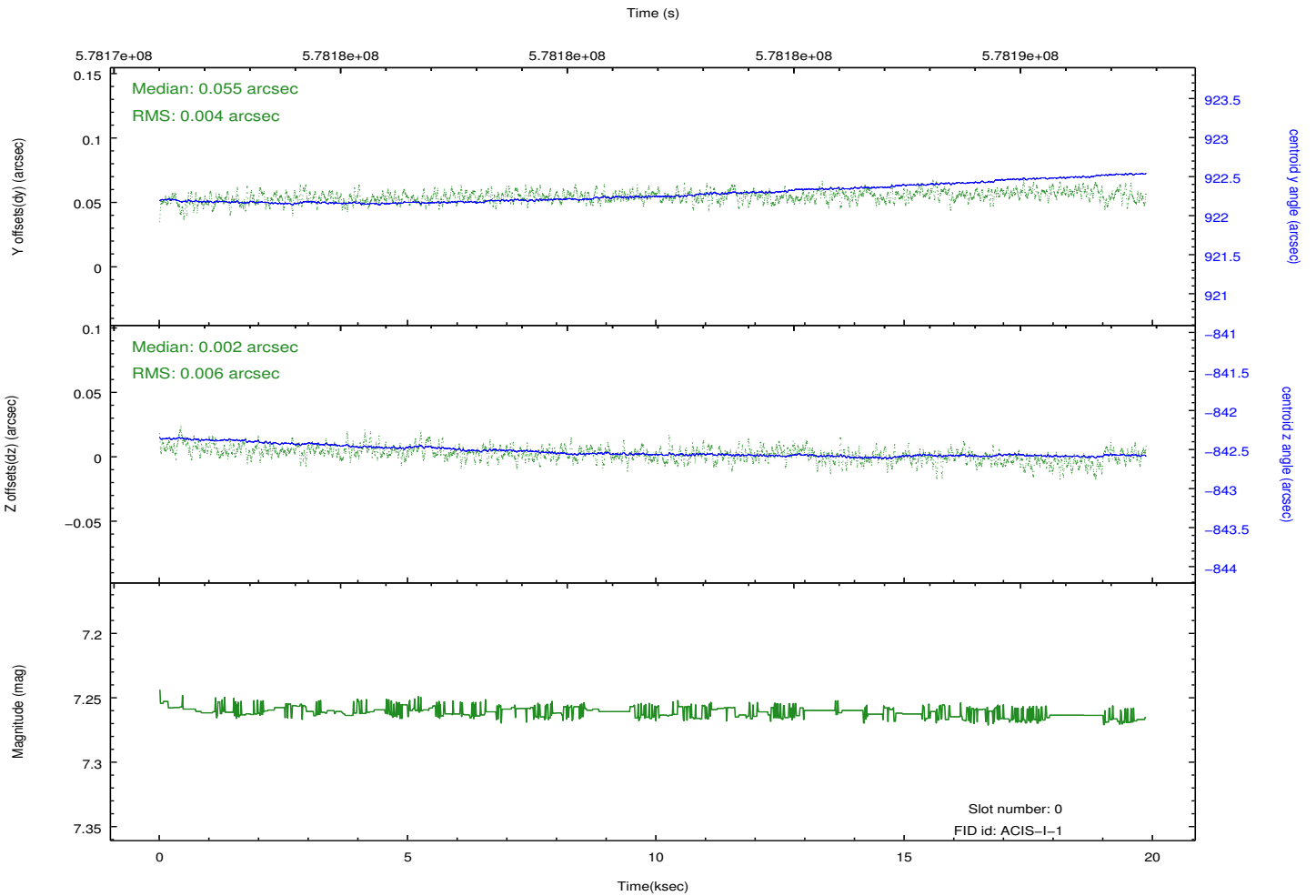
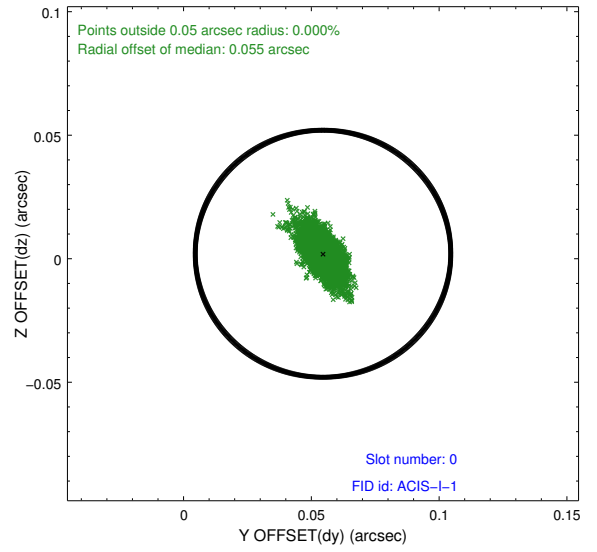
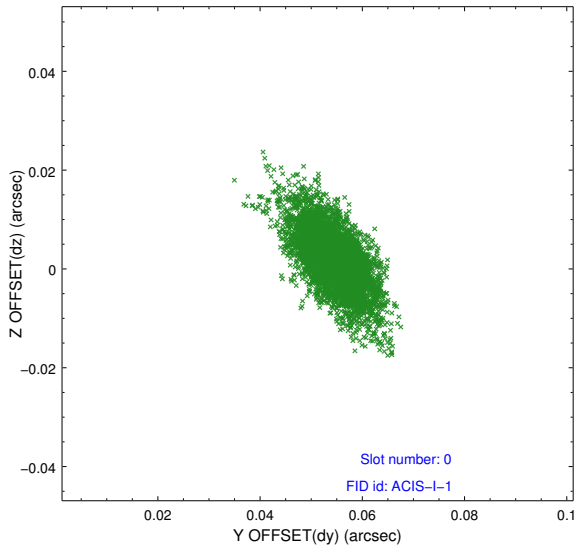


2.4.5 Slot 7

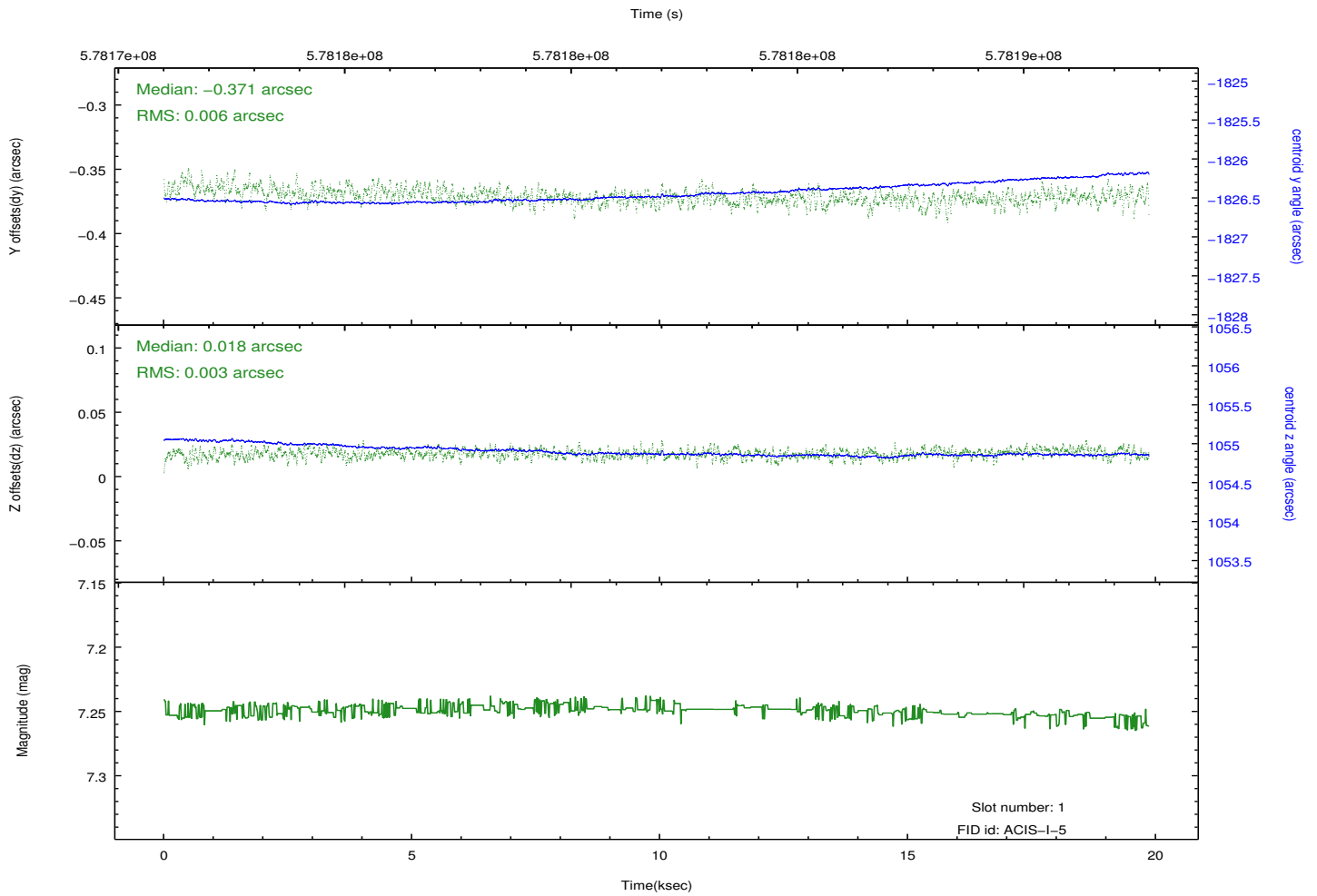
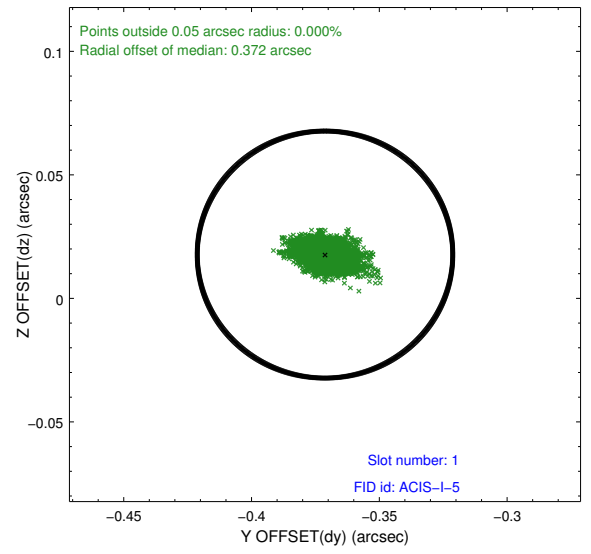
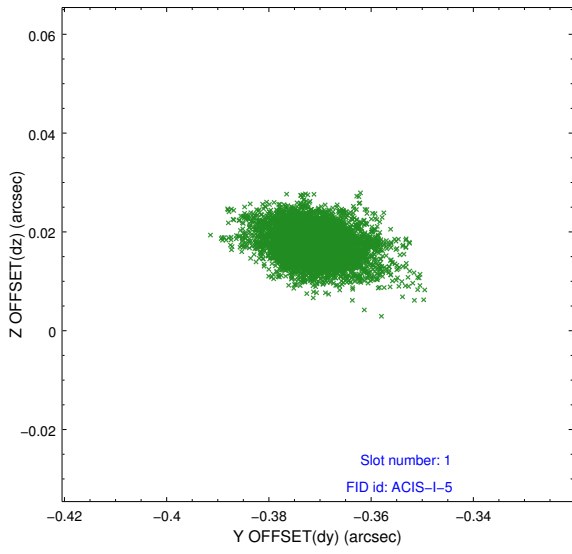


2.5 FID Slots

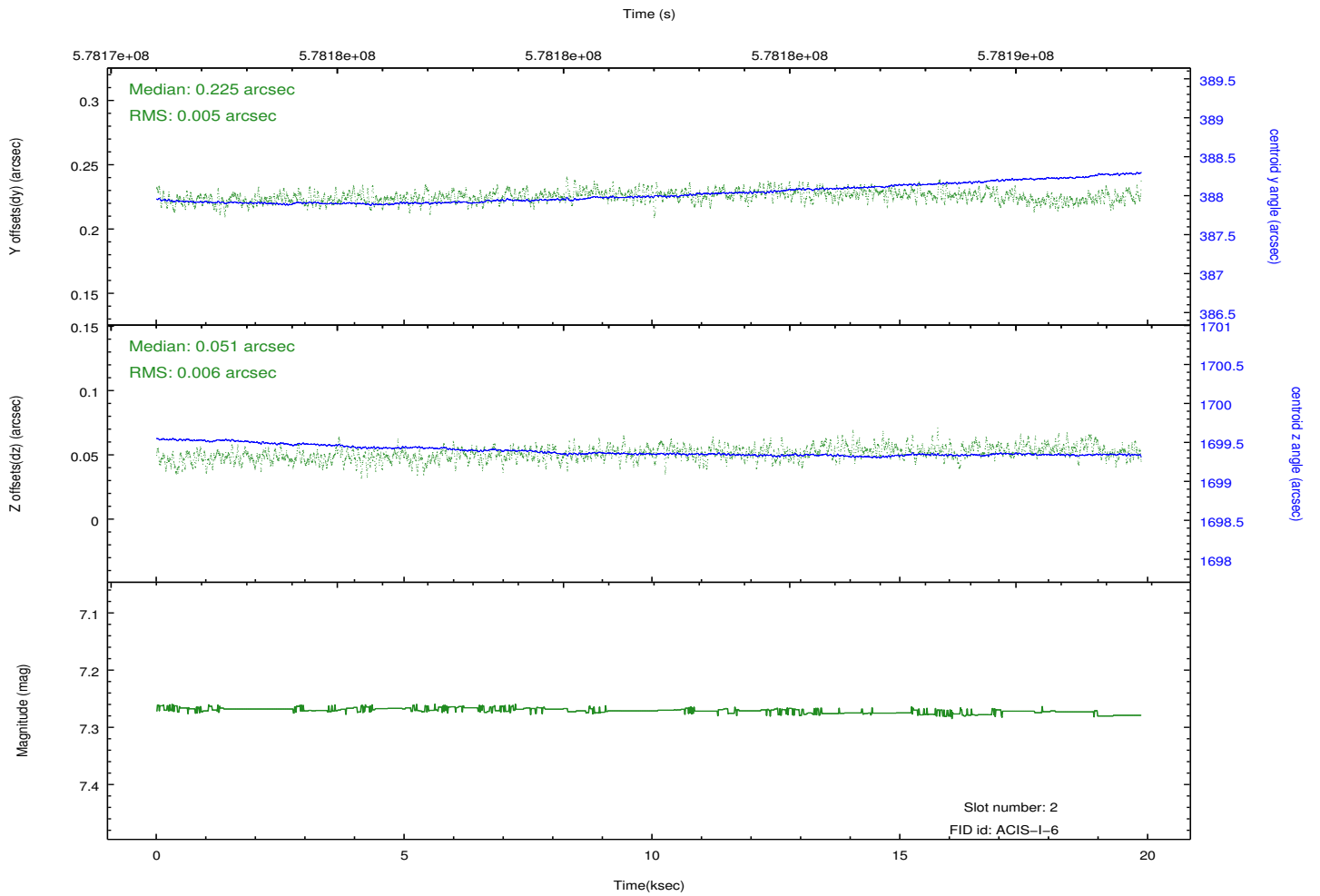
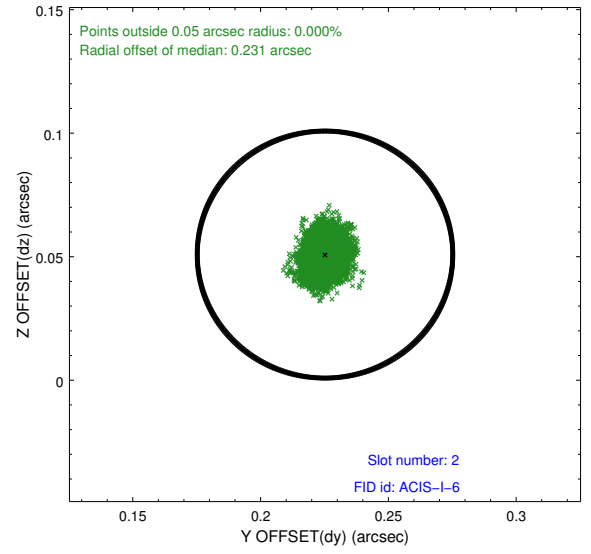
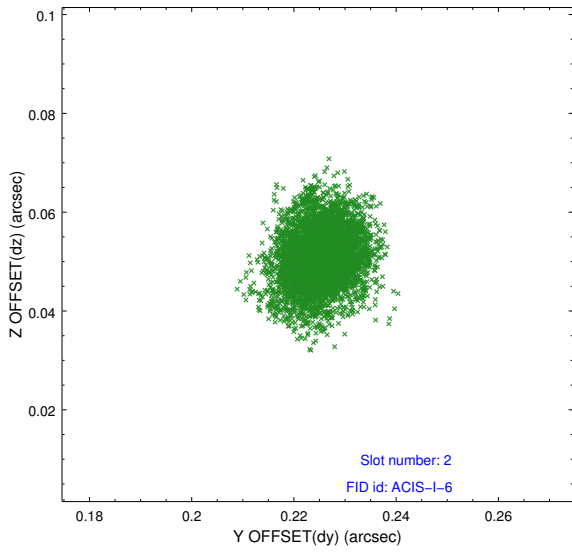
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.052317370176

A.2 Comments