

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18770 - L2 Version 1
Chandra X-Ray Center

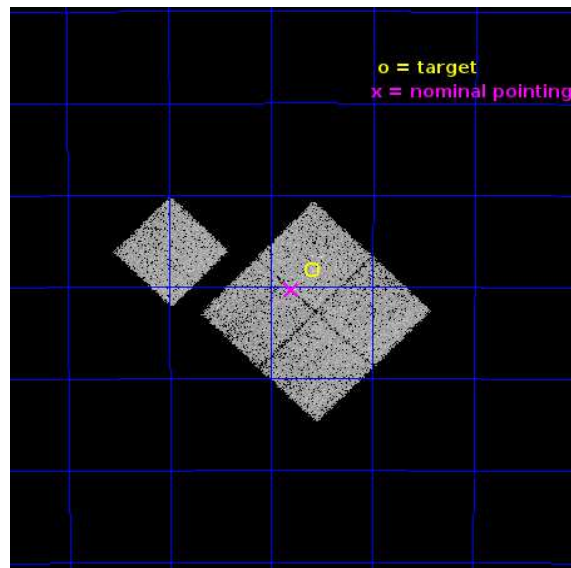
L2 Processing Date : Feb 22 2016

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1 Front

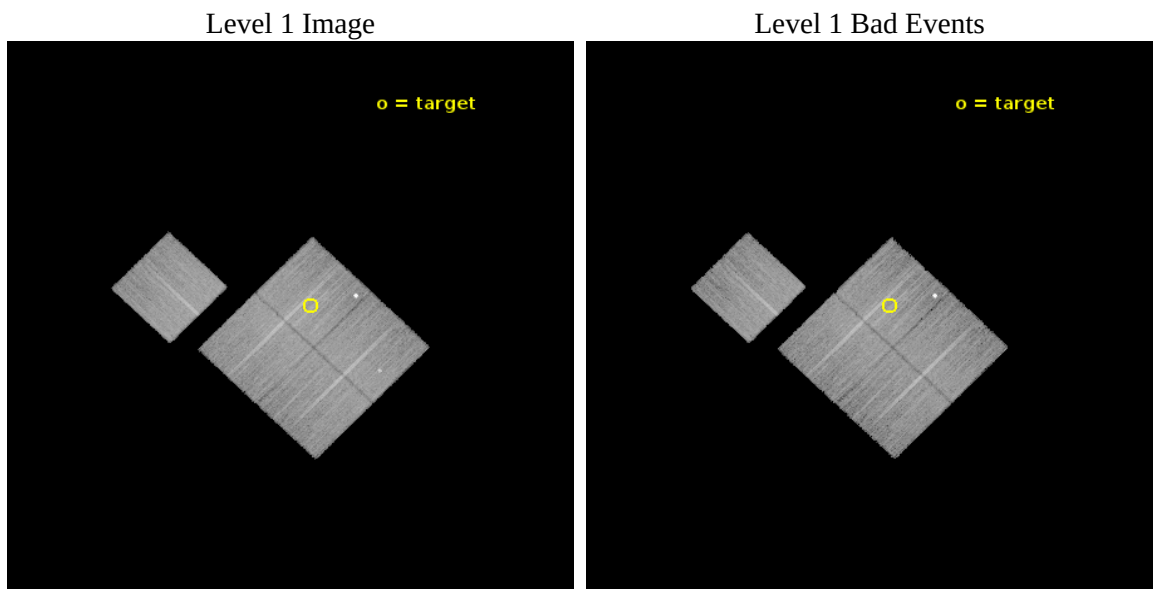
seq_num	801490	Sequence number
obs_id	18770	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Dr Michael McDonald	Principal investigator
object	SPT-CLJ0607-4448	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	91.898333	Observer's specified target RA [deg]
dec_targ	-44.803306	Observer's specified target Dec [deg]
ra_nom	91.95007085558	Nominal RA [deg]
dec_nom	-44.838956165167	Nominal Dec [deg]
roll_nom	314.24515405325	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18233.33969152	Sum of GTIs [s]
livetime	17995.107685261	Livetime [s]
ontime0	18236.357621789	Sum of GTIs [s]
ontime1	18236.398661733	Sum of GTIs [s]
ontime2	18236.439701796	Sum of GTIs [s]
ontime3	18233.33969152	Sum of GTIs [s]
ontime6	18236.316581726	Sum of GTIs [s]
l2events	53158	Number of level 2 events



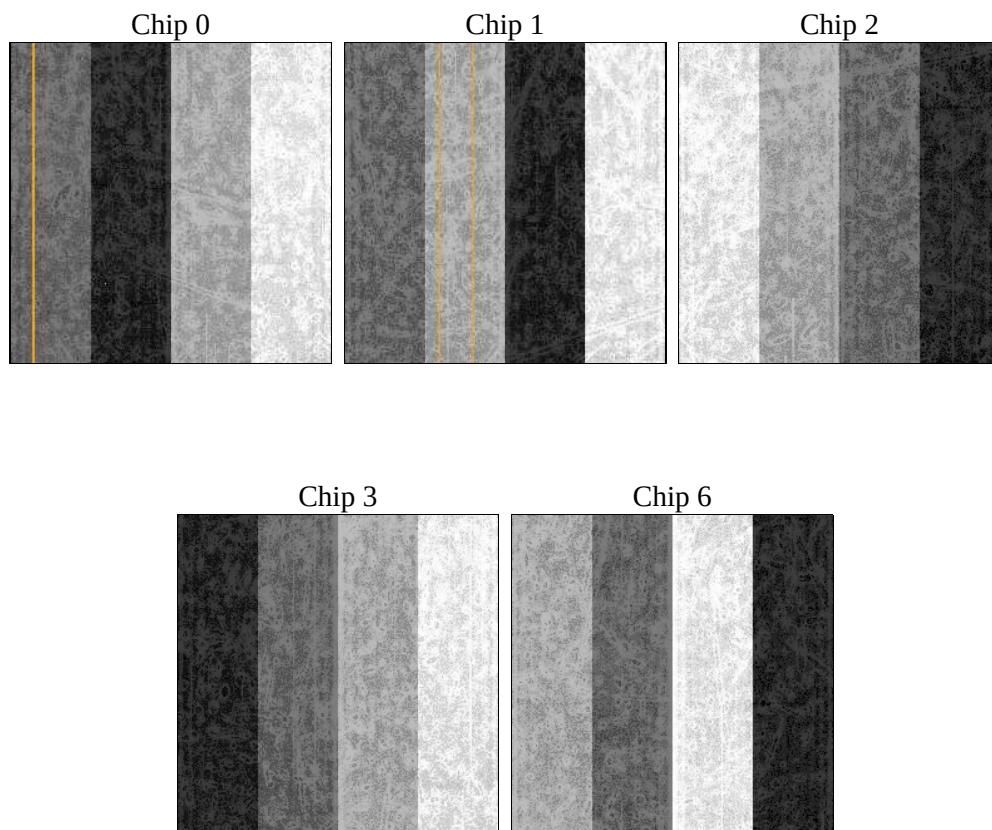
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18175.538000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	18233.33969152	Sum of GTIs [s]
caldbver	4.7.0	 	ontime0	18236.357621789	Sum of GTIs [s]
date	2016-02-23T02:29:22	Date and time of file creation	ontime1	18236.398661733	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18236.439701796	Sum of GTIs [s]
			ontime3	18233.33969152	Sum of GTIs [s]
			ontime6	18236.316581726	Sum of GTIs [s]
			l1events	557826	Number of level 1 events

2.1.4 Events

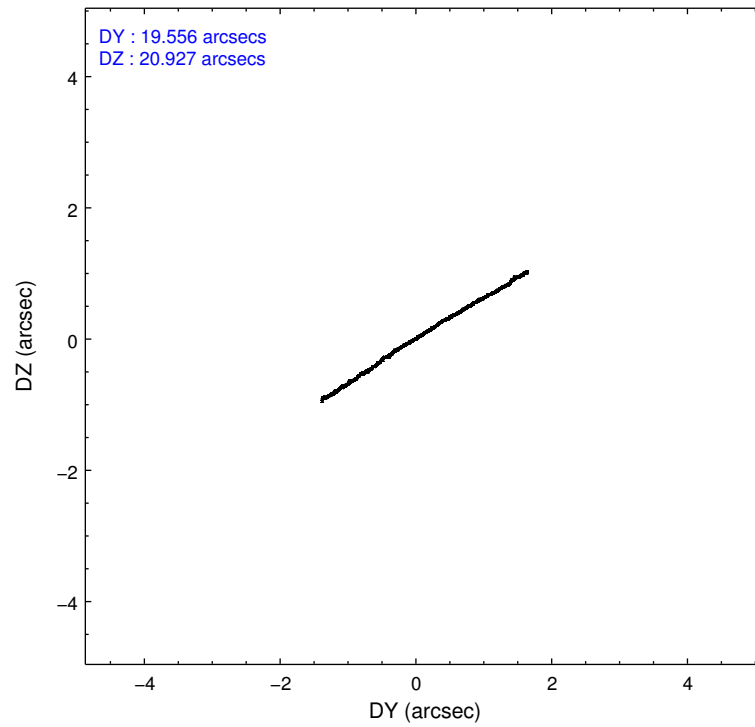
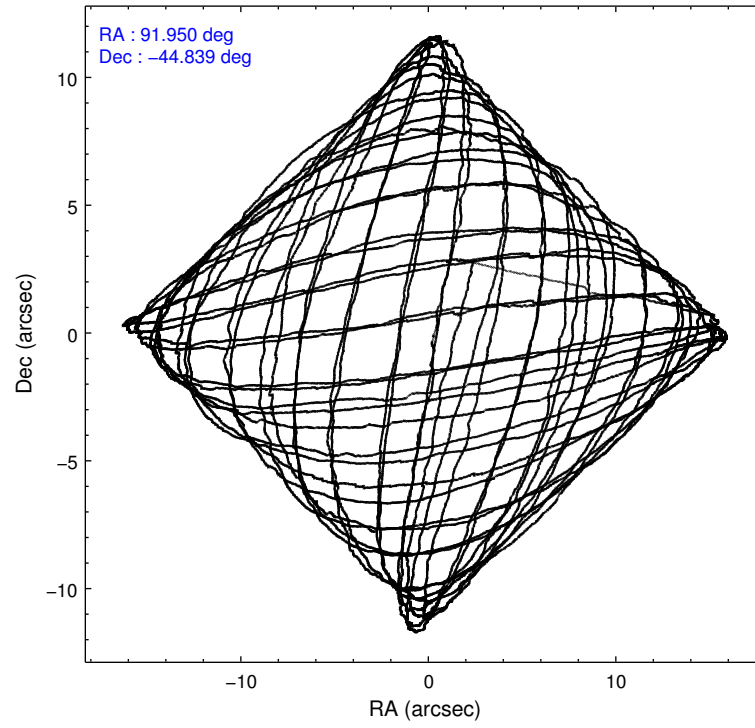
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	102957	107166	113342	119054	115307
rejected events	90294	93210	101612	106852	102380
rejected %	87%	86%	89%	89%	88%

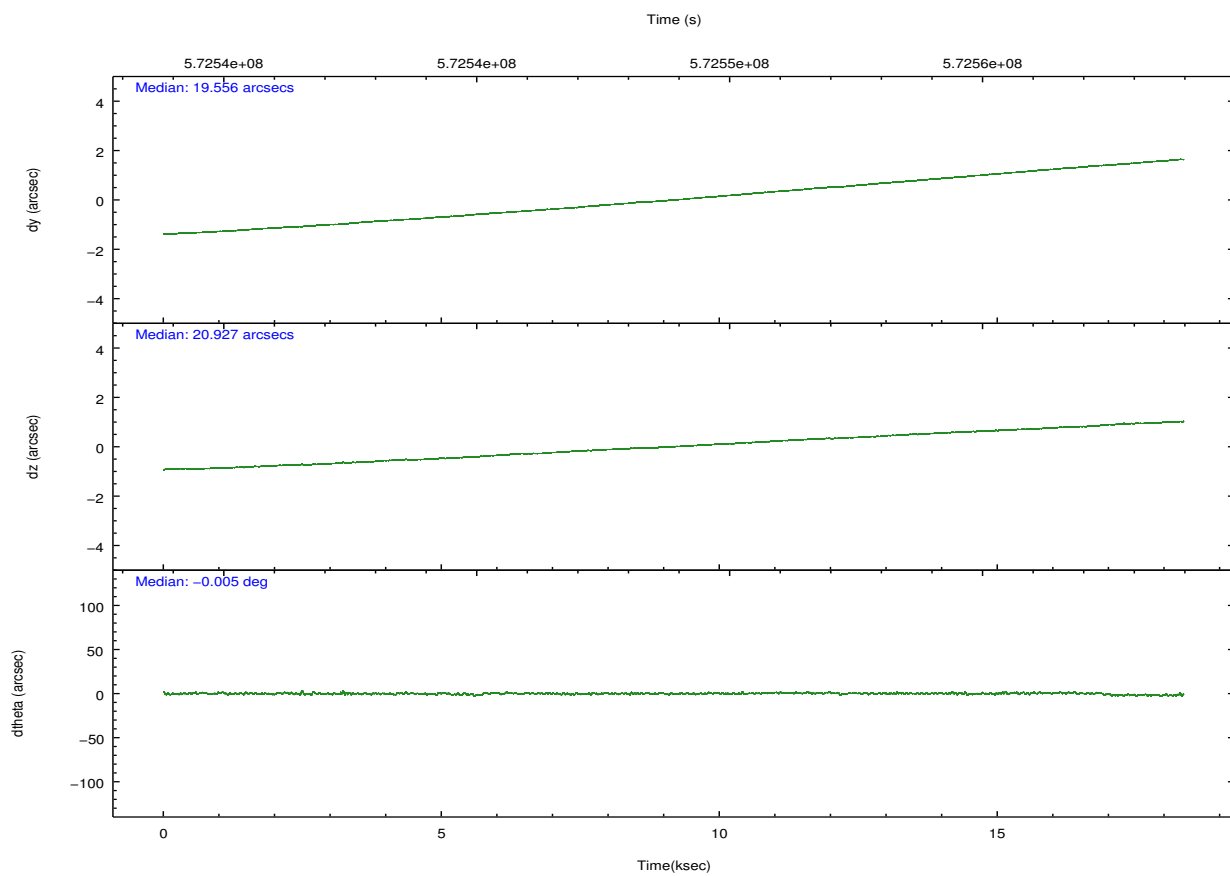
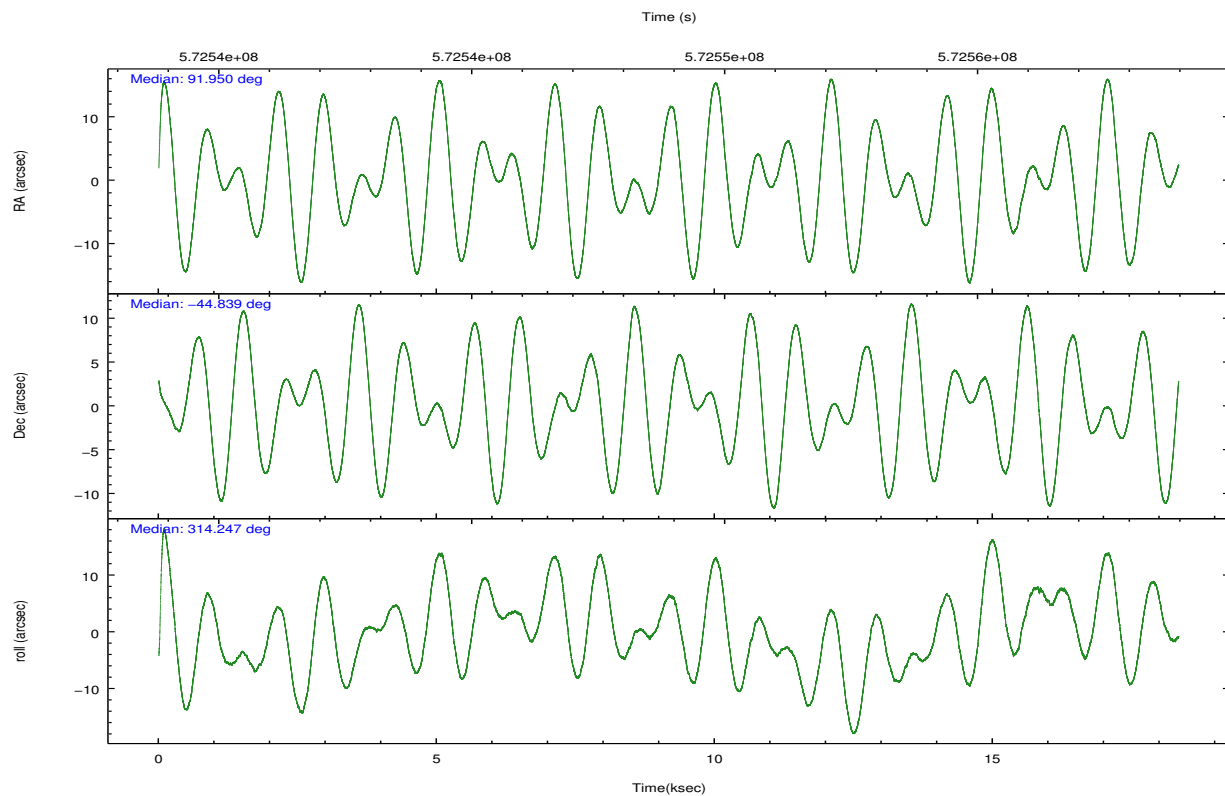
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4500	5027	4074	4284	4127
	4%	4%	3%	3%	3%
grade 1 events	54	68	60	5707	40
	0%	0%	0%	4%	0%
grade 2 events	3115	3296	2756	2712	3112
	3%	3%	2%	2%	2%
grade 3 events	1270	1293	1237	1293	1253
	1%	1%	1%	1%	1%
grade 4 events	1220	1222	1266	1283	1300
	1%	1%	1%	1%	1%
grade 5 events	4744	4970	4384	5385	5067
	4%	4%	3%	4%	4%
grade 6 events	2565	3118	2400	2633	3140
	2%	2%	2%	2%	2%
grade 7 events	85489	88172	97165	95757	97268
	83%	82%	85%	80%	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	91.912564	91.95007085557978	CCD I2 on	Y	Y
[deg] Pointing Dec	-44.831536	-44.838956165167	CCD I3 on	Y	Y
[deg] Pointing Roll	314.010026	314.2451540532516	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	-225.842463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	572539890.184000	572538726.54802	CCD S5 on	N	N
Observation start date	2016-02-22T14:50:22	2016-02-22T14:32:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	572558066.184000	572558301.99914	On-chip summing requested	N	N
Observation end date	2016-02-22T19:53:18	2016-02-22T19:58:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



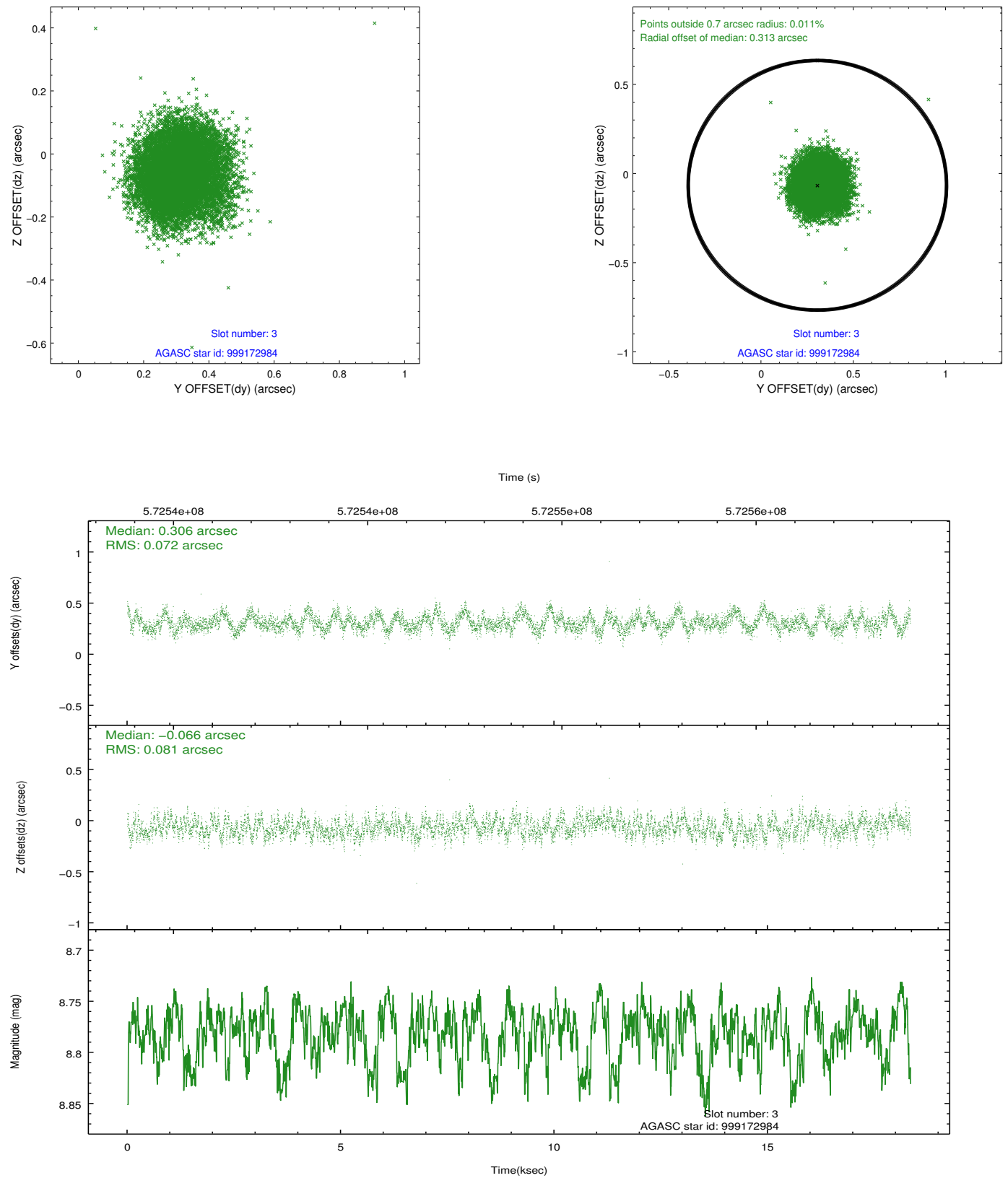


Slot Statistics

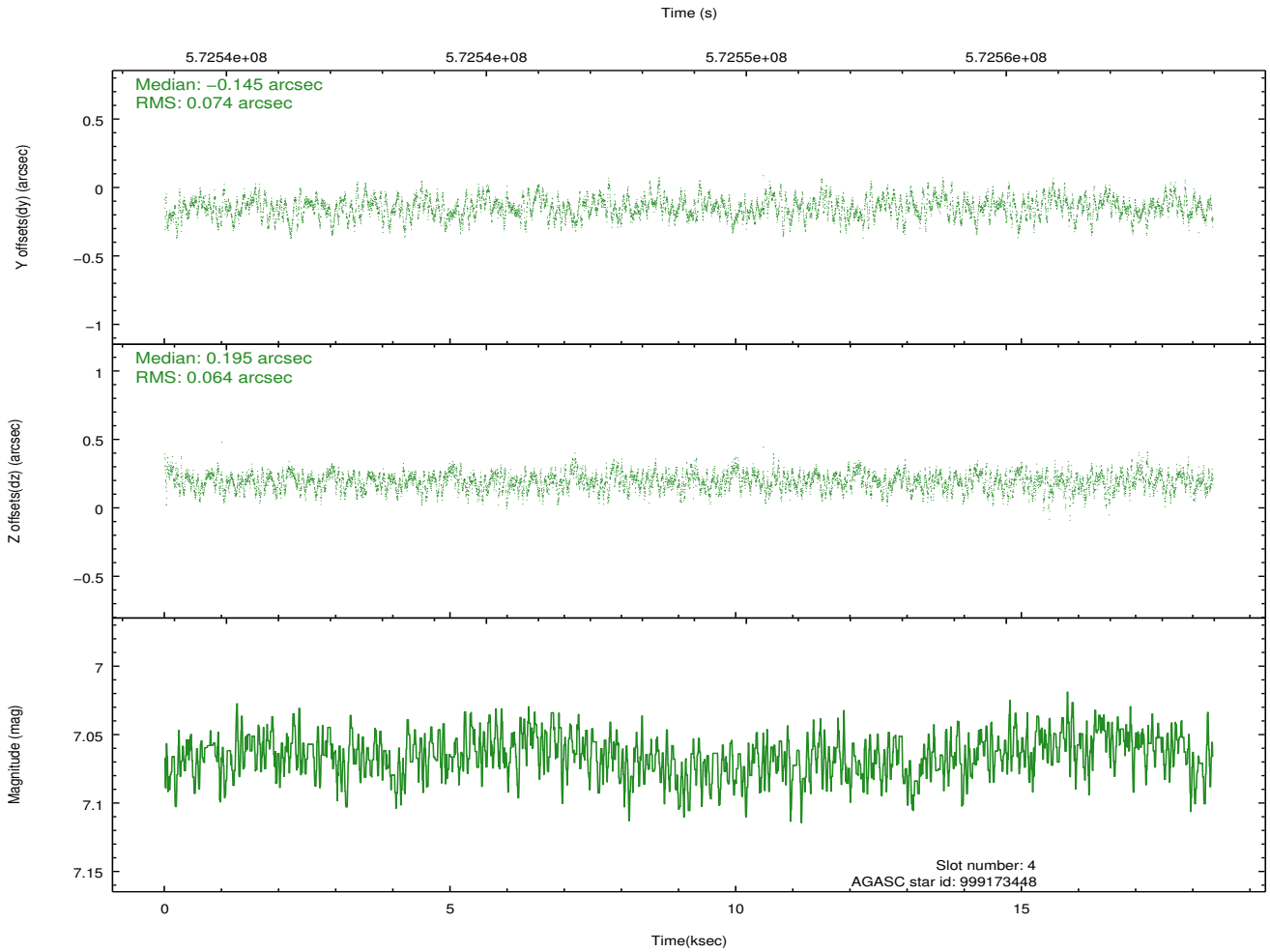
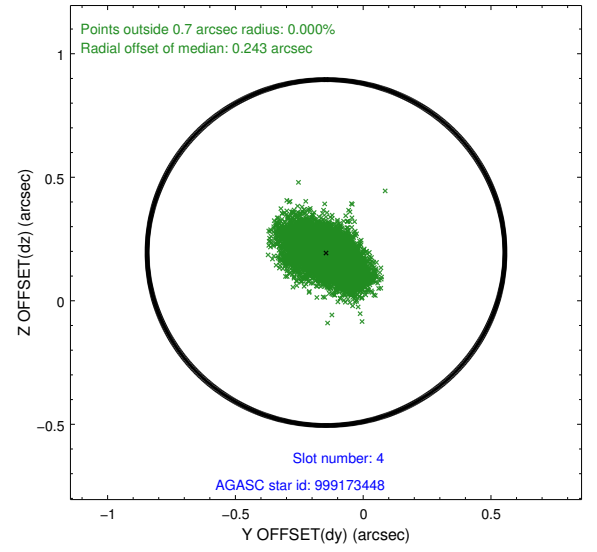
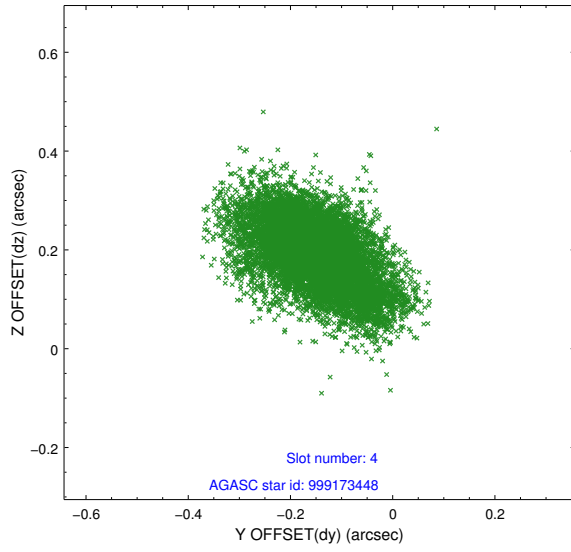
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.22	4471	-0.256	-0.116	0.016	0.053	0.000000	0.000000	-775.20	-1009.21
1	FID		ACIS-I-4	7.18	4474	0.463	0.165	0.012	0.043	0.000000	0.000000	2139.36	897.17
2	FID		ACIS-I-5	7.27	4473	-0.309	0.020	0.015	0.038	0.000000	0.000000	-1828.48	893.97
3	GUIDE	used	999172984	8.78	8947	0.306	-0.066	0.118	0.181	91.767031	-44.624936	-793.36	248.50
4	GUIDE	used	999173448	7.06	8948	-0.145	0.195	0.103	0.176	91.945787	-44.729319	-205.76	317.19
5	GUIDE	used	999174616	6.79	8949	-0.031	-0.048	0.124	0.202	92.144286	-44.356211	-815.82	1617.48
6	GUIDE	used	999302088	8.61	8947	-0.245	0.071	0.086	0.141	92.578892	-44.925881	1429.07	981.11
7	GUIDE	used	999302712	8.48	8948	0.110	-0.149	0.101	0.164	92.766275	-44.874060	1631.94	1452.24

2.4 Star Slots

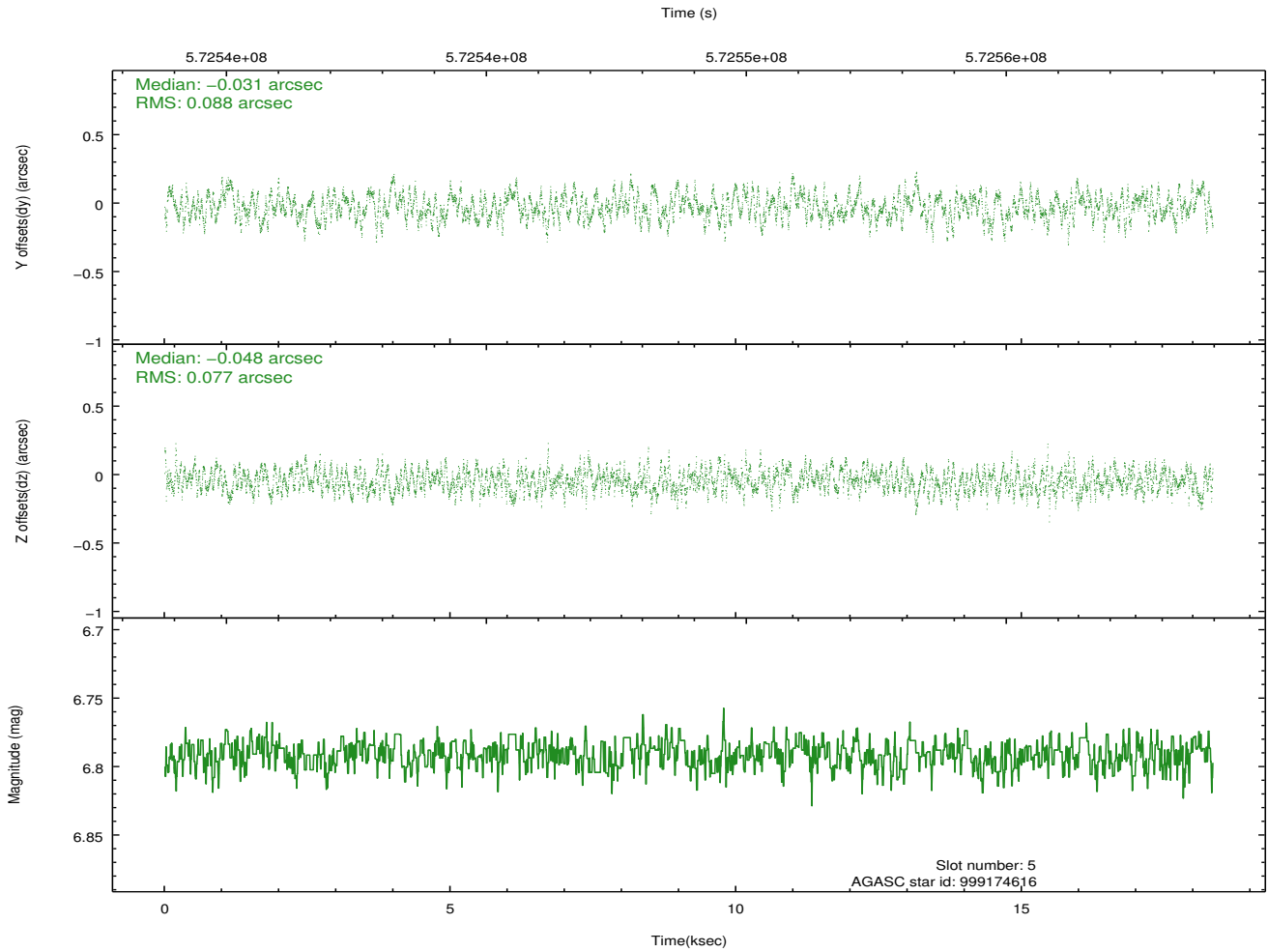
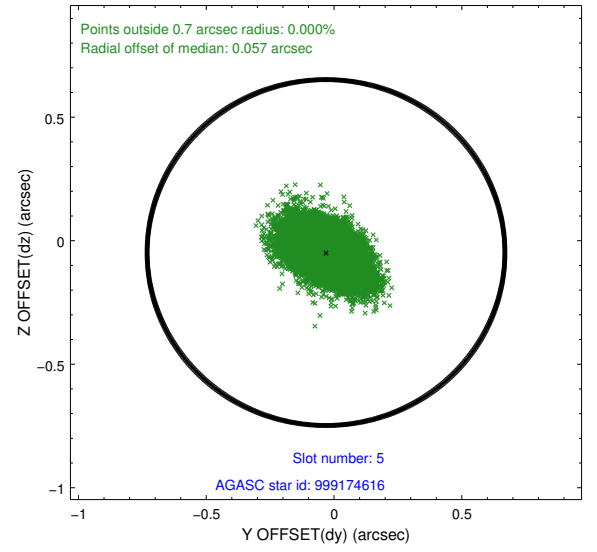
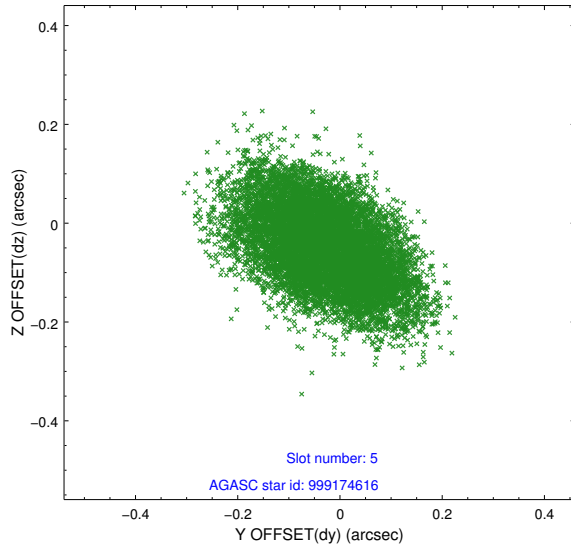
2.4.1 Slot 3



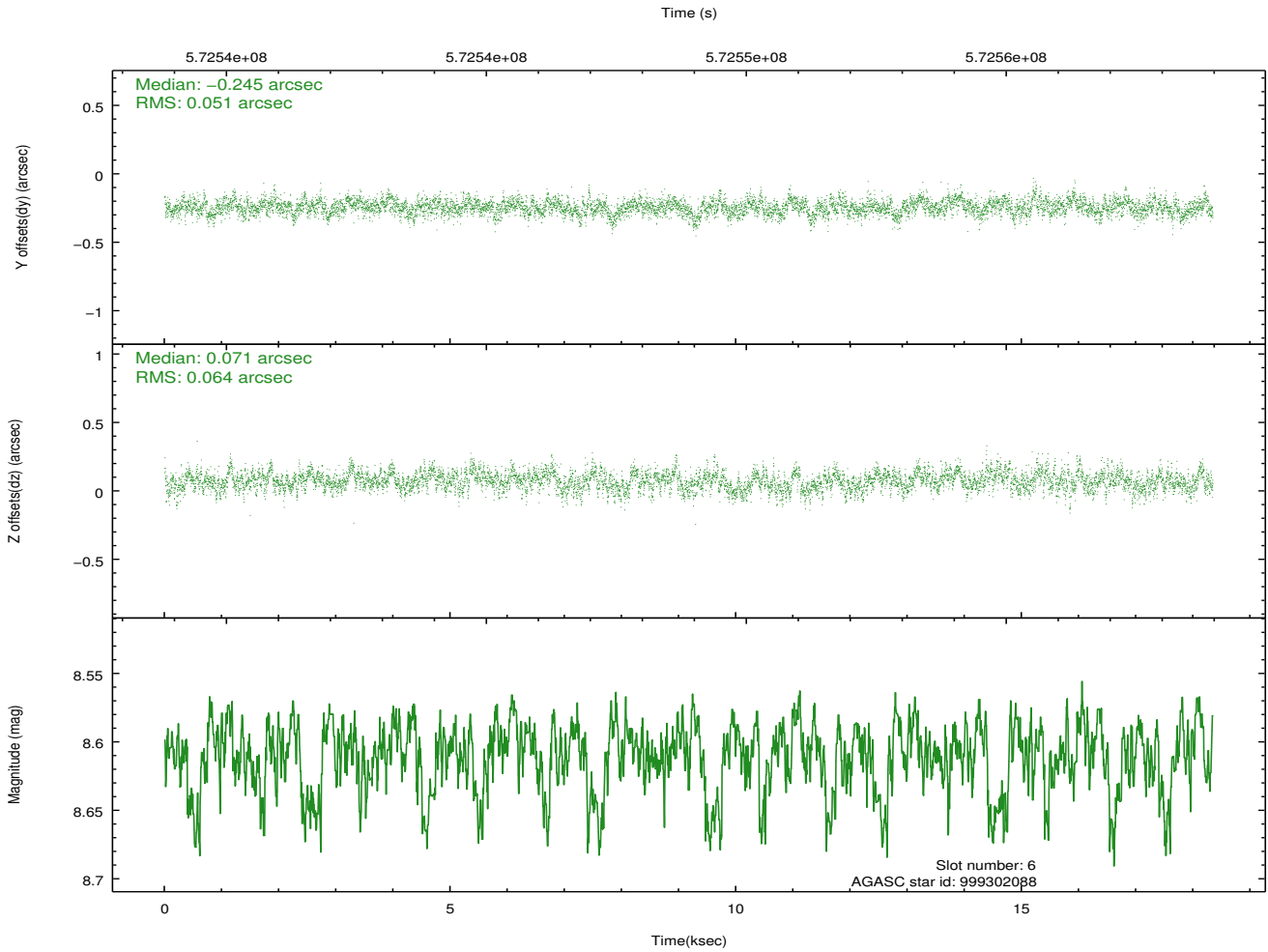
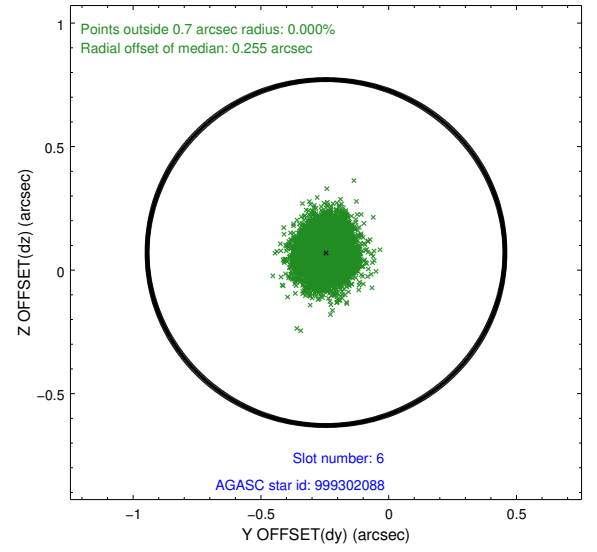
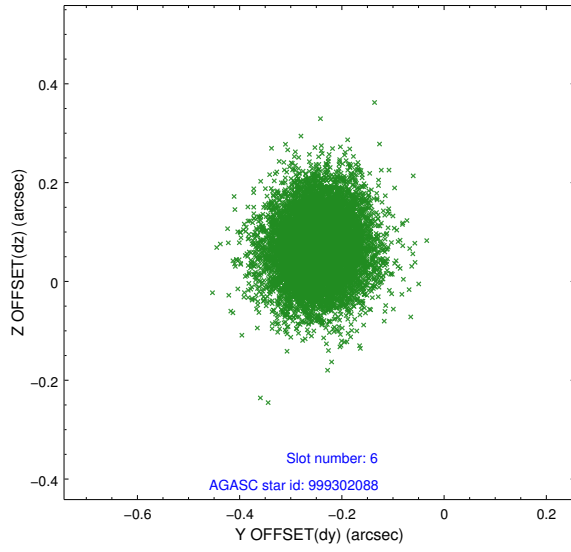
2.4.2 Slot 4



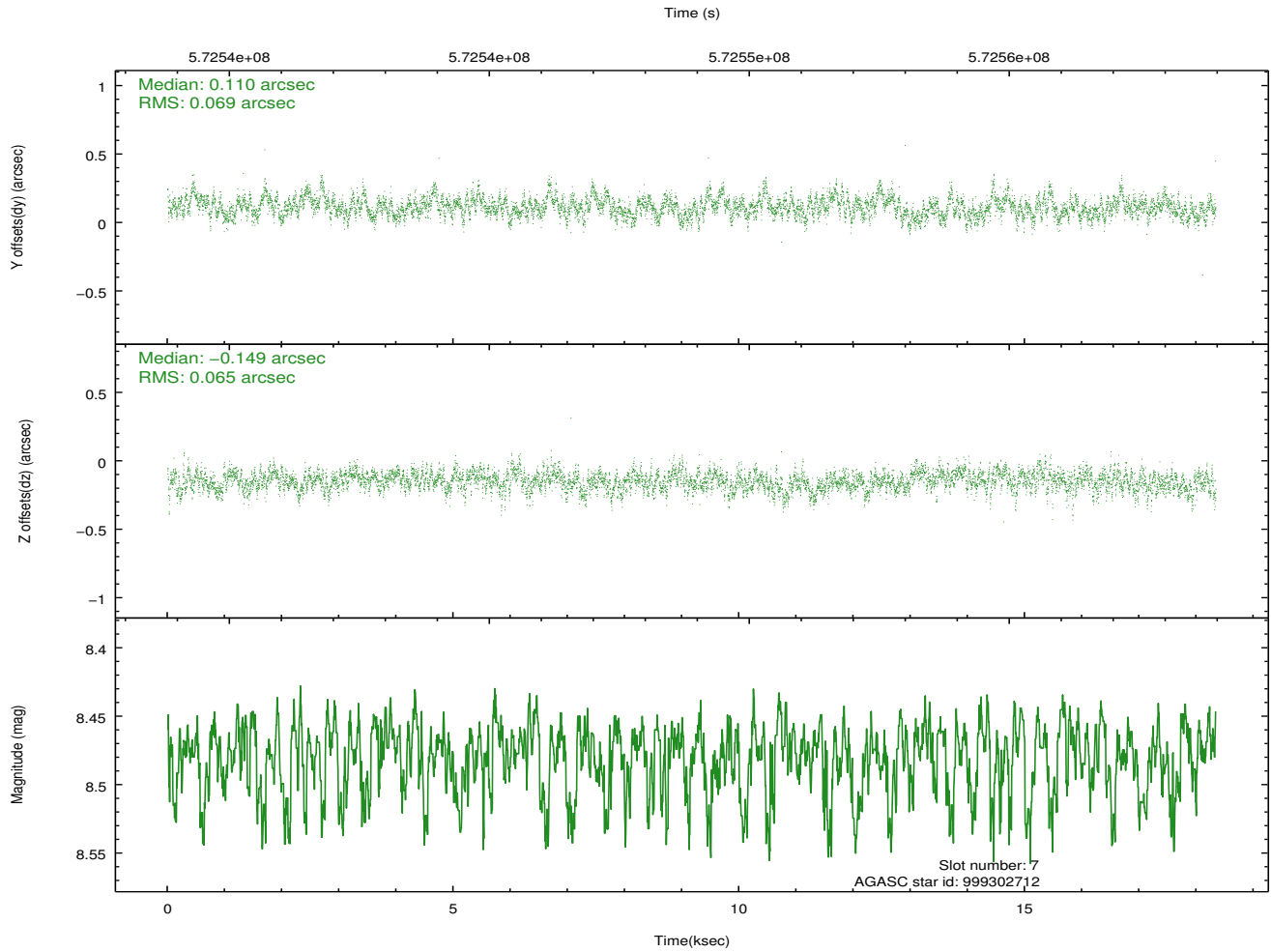
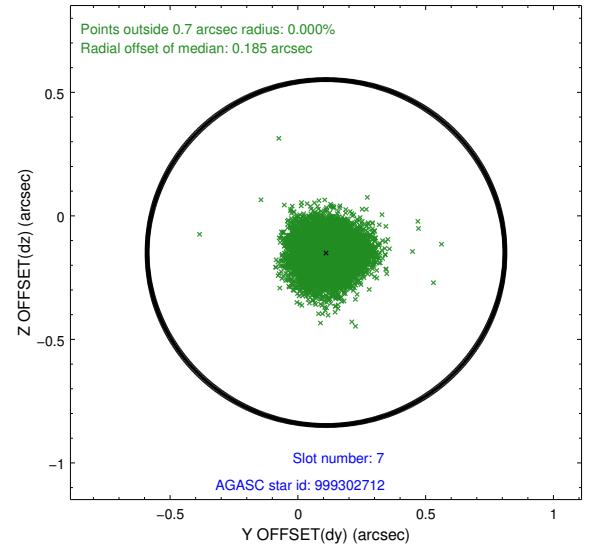
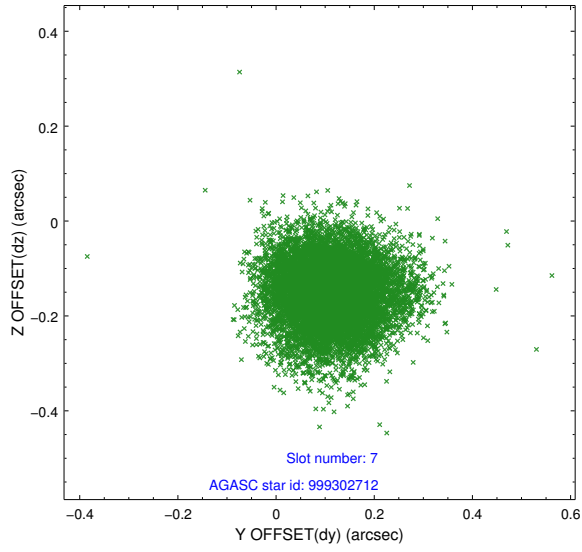
2.4.3 Slot 5



2.4.4 Slot 6

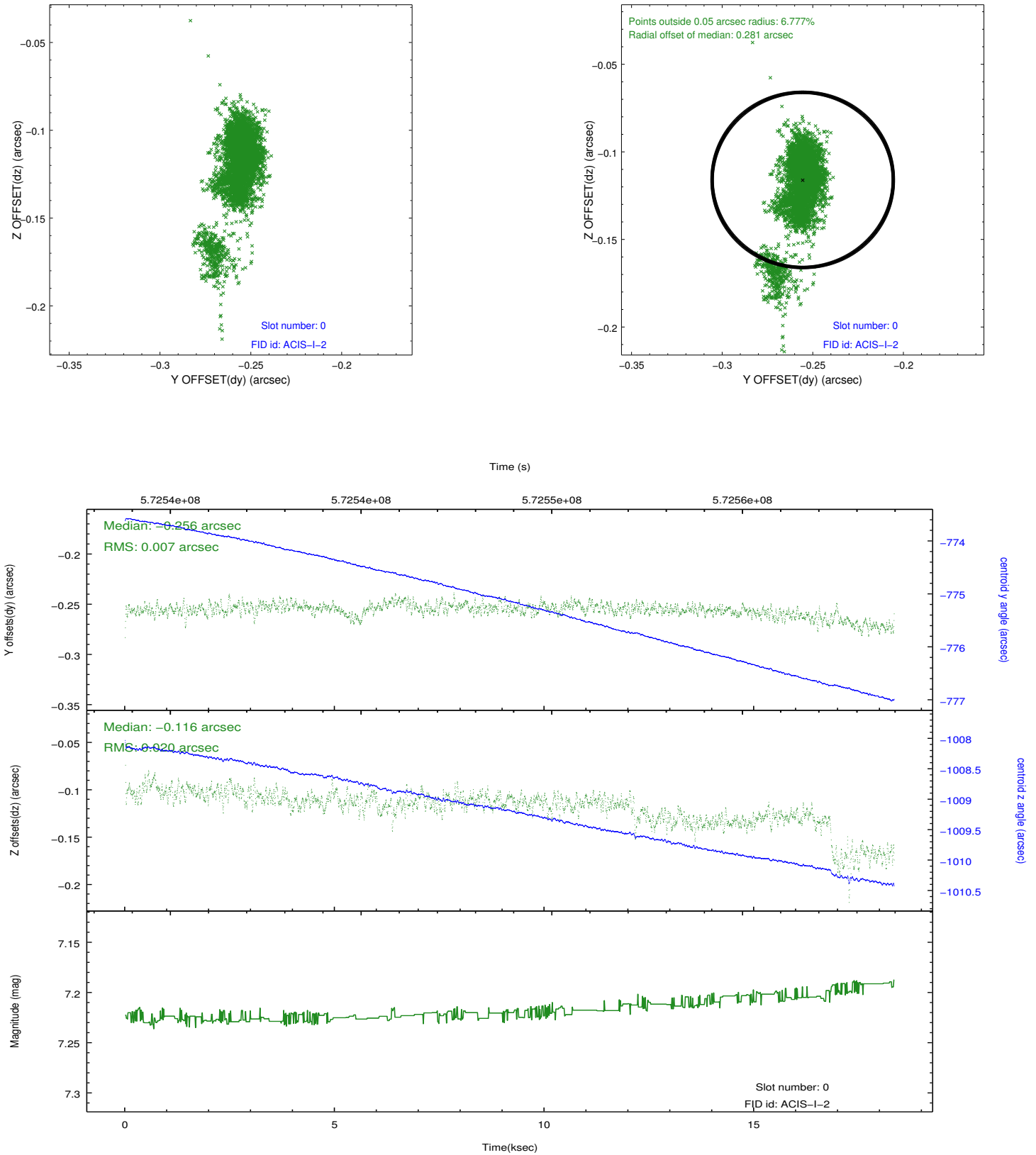


2.4.5 Slot 7

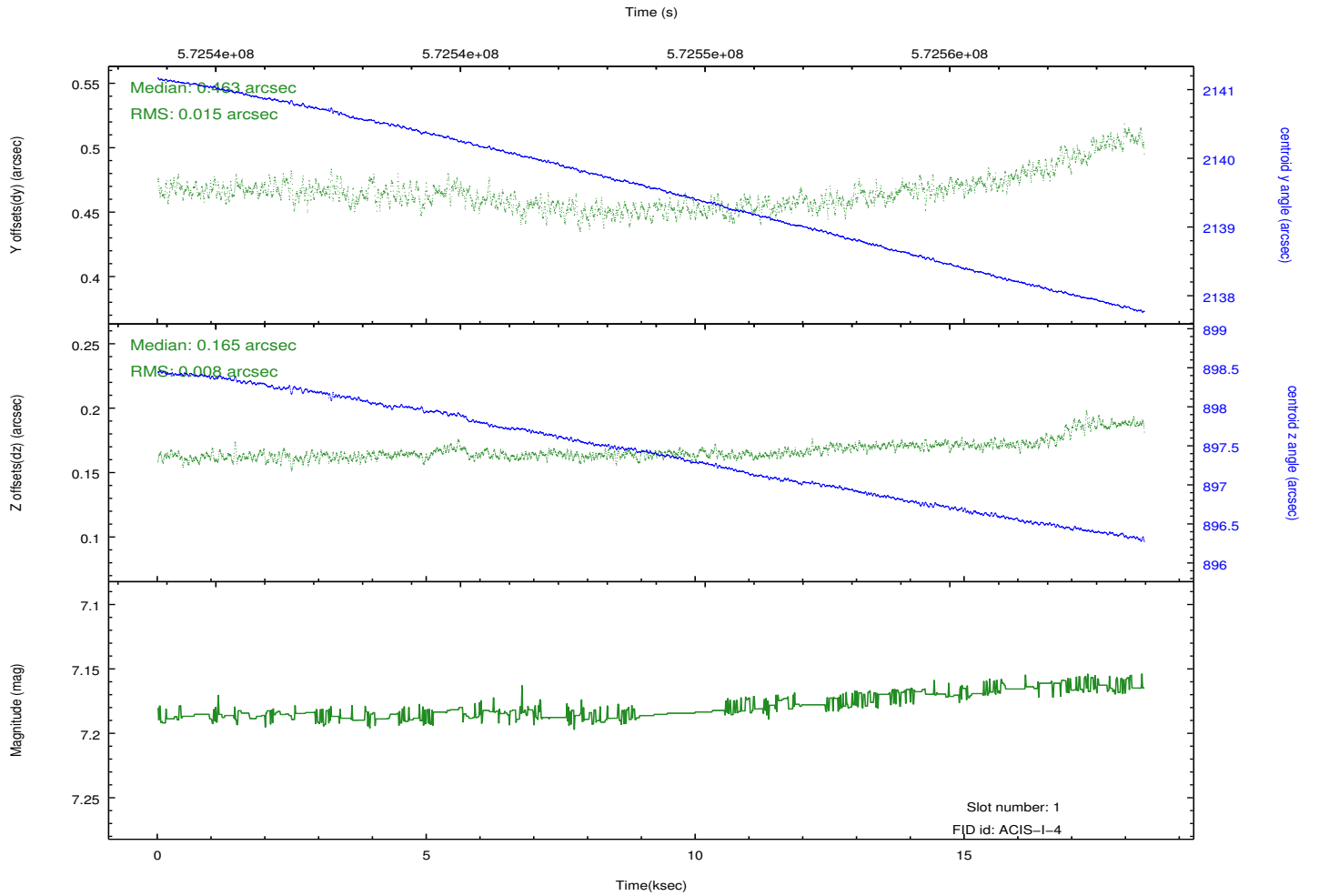
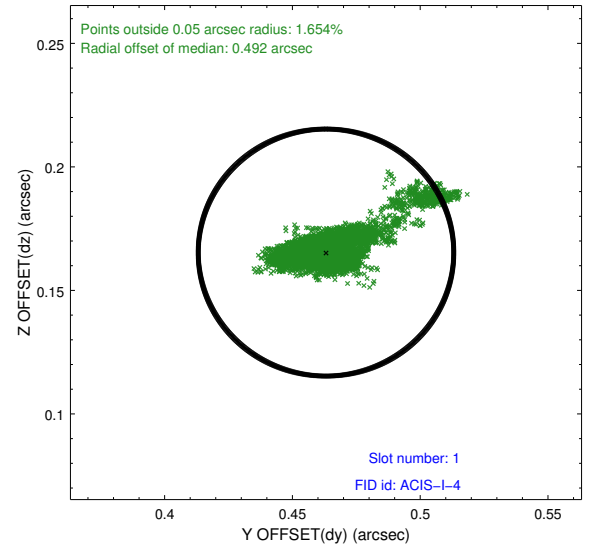
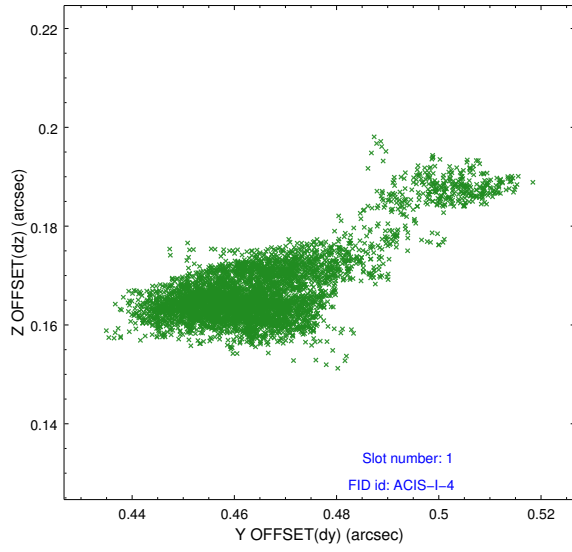


2.5 FID Slots

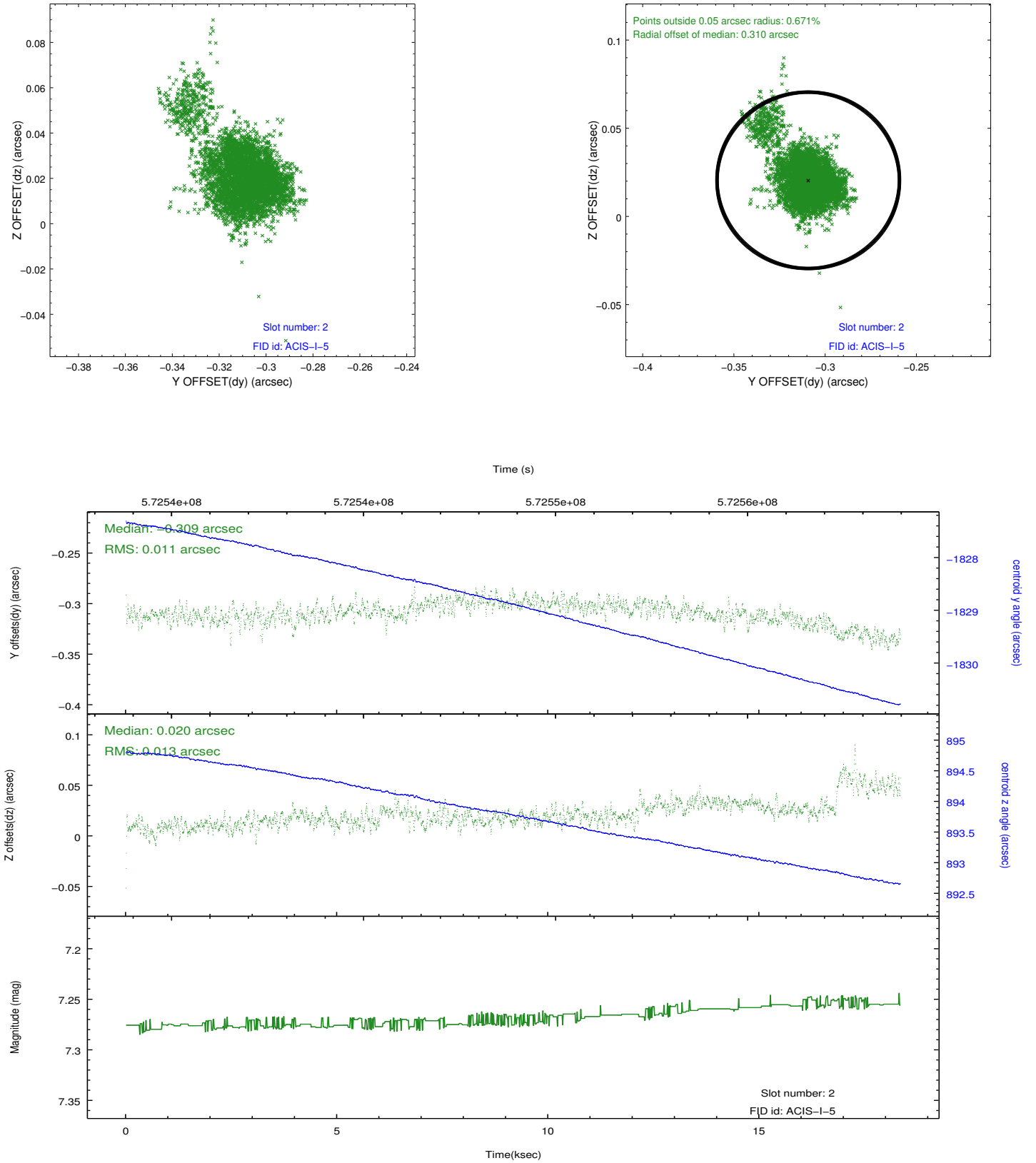
2.5.1 Slot 0



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)	2016.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.23333969152

A.2 Comments