

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19567 - L2 Version 1
Chandra X-Ray Center

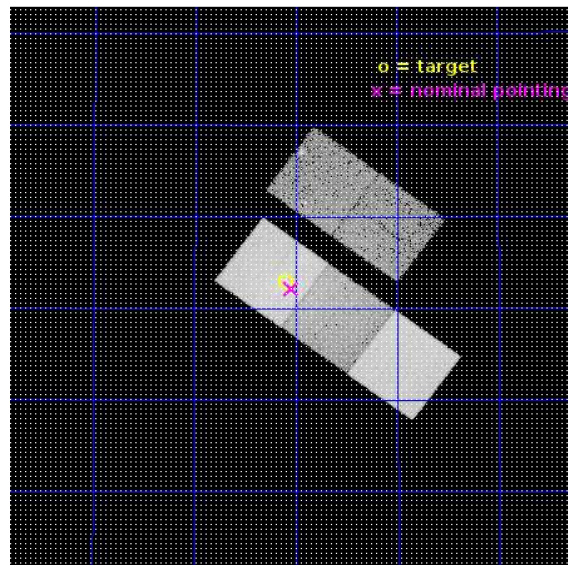
L2 Processing Date : Dec 20 2016

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1 Front

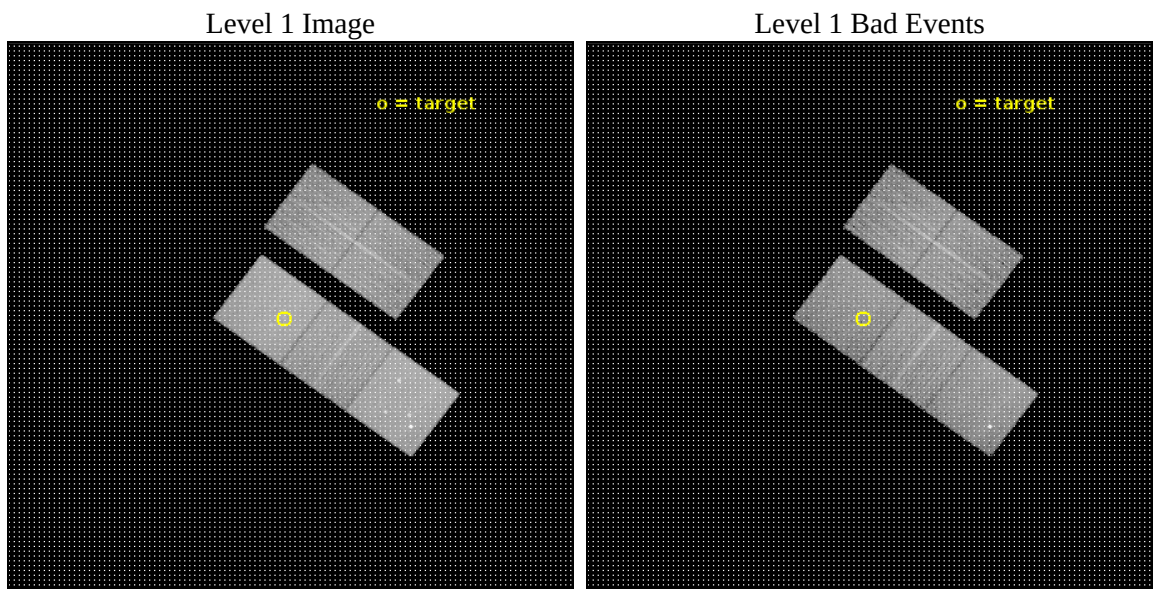
seq_num	801660	Sequence number
obs_id	19567	Observation id
title	A cool core remnant in one of the brightest non-cool core clusters?	
observer	Ming Sun	Principal investigator
object	3C 129.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.524583	Observer's specified target RA [deg]
dec_targ	45.049028	Observer's specified target Dec [deg]
ra_nom	72.511406237839	Nominal RA [deg]
dec_nom	45.036194069269	Nominal Dec [deg]
roll_nom	216.1659839355	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15317.100117922	Sum of GTIs [s]
livetime	15116.970928596	Livetime [s]
ontime2	15313.959117651	Sum of GTIs [s]
ontime3	15310.818017364	Sum of GTIs [s]
ontime5	15317.100117922	Sum of GTIs [s]
ontime6	15317.100117922	Sum of GTIs [s]
ontime7	15317.100117922	Sum of GTIs [s]
l2events	224032	Number of level 2 events



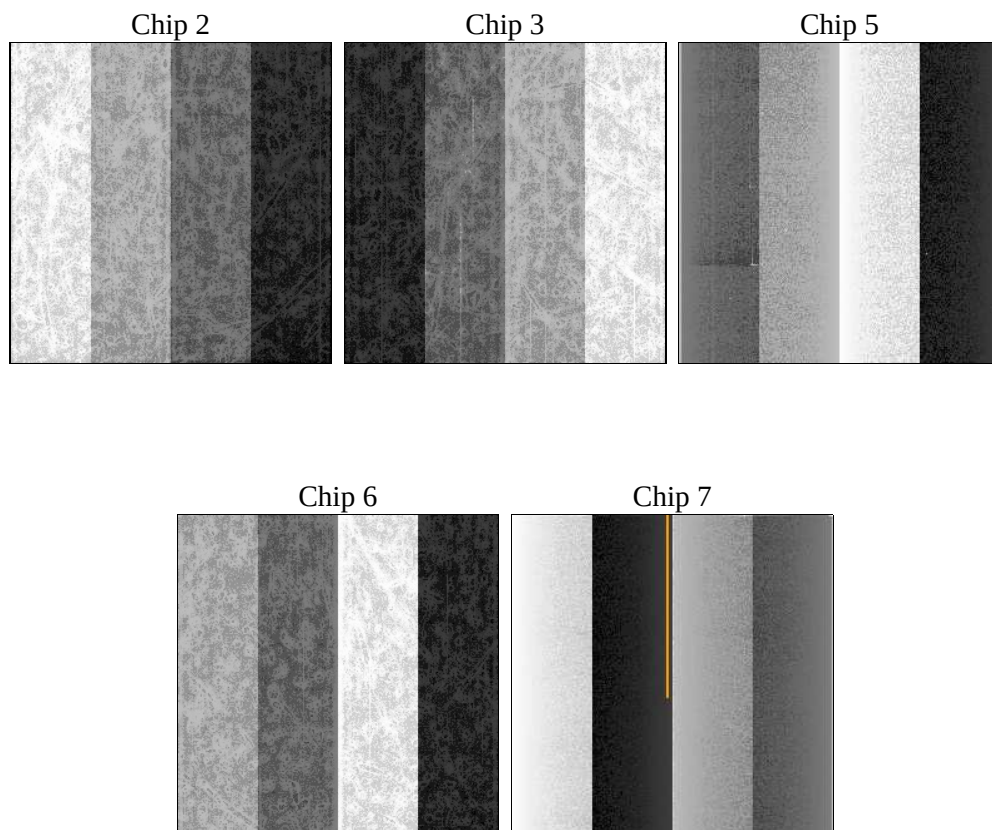
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15257.900000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	15317.100117922	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	15313.959117651	Sum of GTIs [s]
date	2016-12-20T14:53:09	Date and time of file creation	ontime3	15310.818017364	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	15317.100117922	Sum of GTIs [s]
			ontime6	15317.100117922	Sum of GTIs [s]
			ontime7	15317.100117922	Sum of GTIs [s]
			l1events	689142	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	108178	104943	181246	127339	167436
rejected events	92216	90182	93344	96856	77989
rejected %	85%	85%	51%	76%	46%

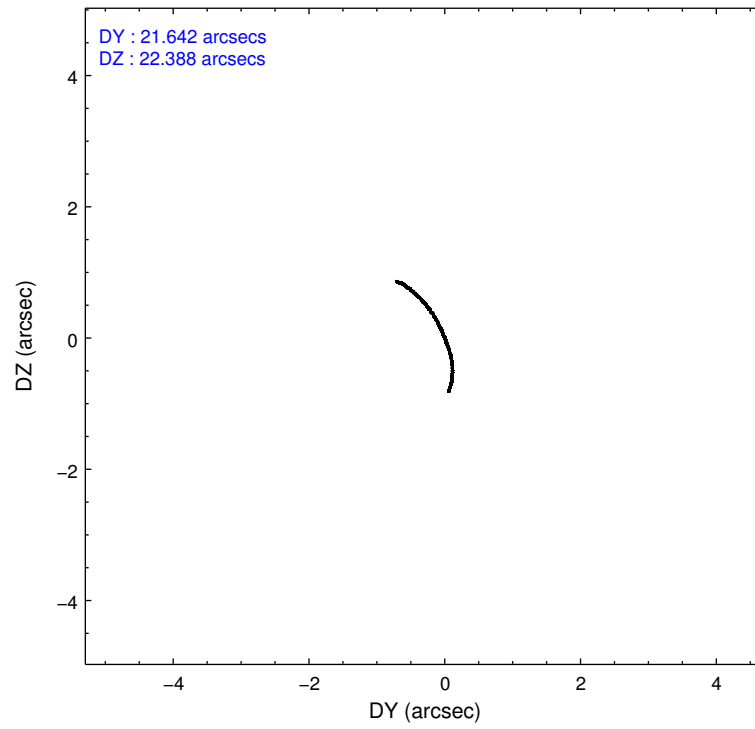
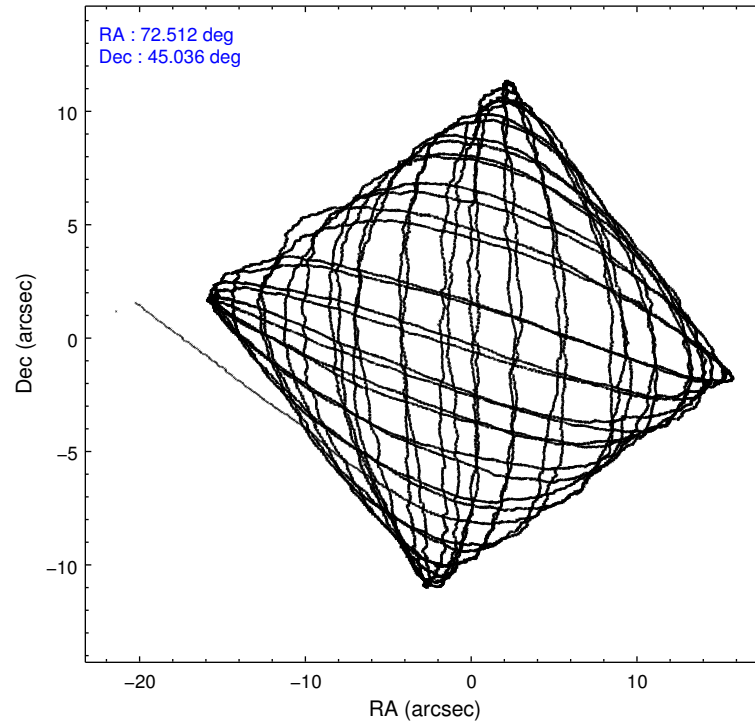
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7444	6726	9498	17845	11454
	6%	6%	5%	14%	6%
grade 1 events	70	74	356	105	205
	0%	0%	0%	0%	0%
grade 2 events	3452	2965	27149	5200	20343
	3%	2%	14%	4%	12%
grade 3 events	1338	1290	3022	1855	8296
	1%	1%	1%	1%	4%
grade 4 events	1332	1297	2809	1927	8273
	1%	1%	1%	1%	4%
grade 5 events	4252	5186	12383	5257	14041
	3%	4%	6%	4%	8%
grade 6 events	2397	2485	45444	3662	41094
	2%	2%	25%	2%	24%
grade 7 events	87893	84920	80585	91488	63730
	81%	80%	44%	71%	38%

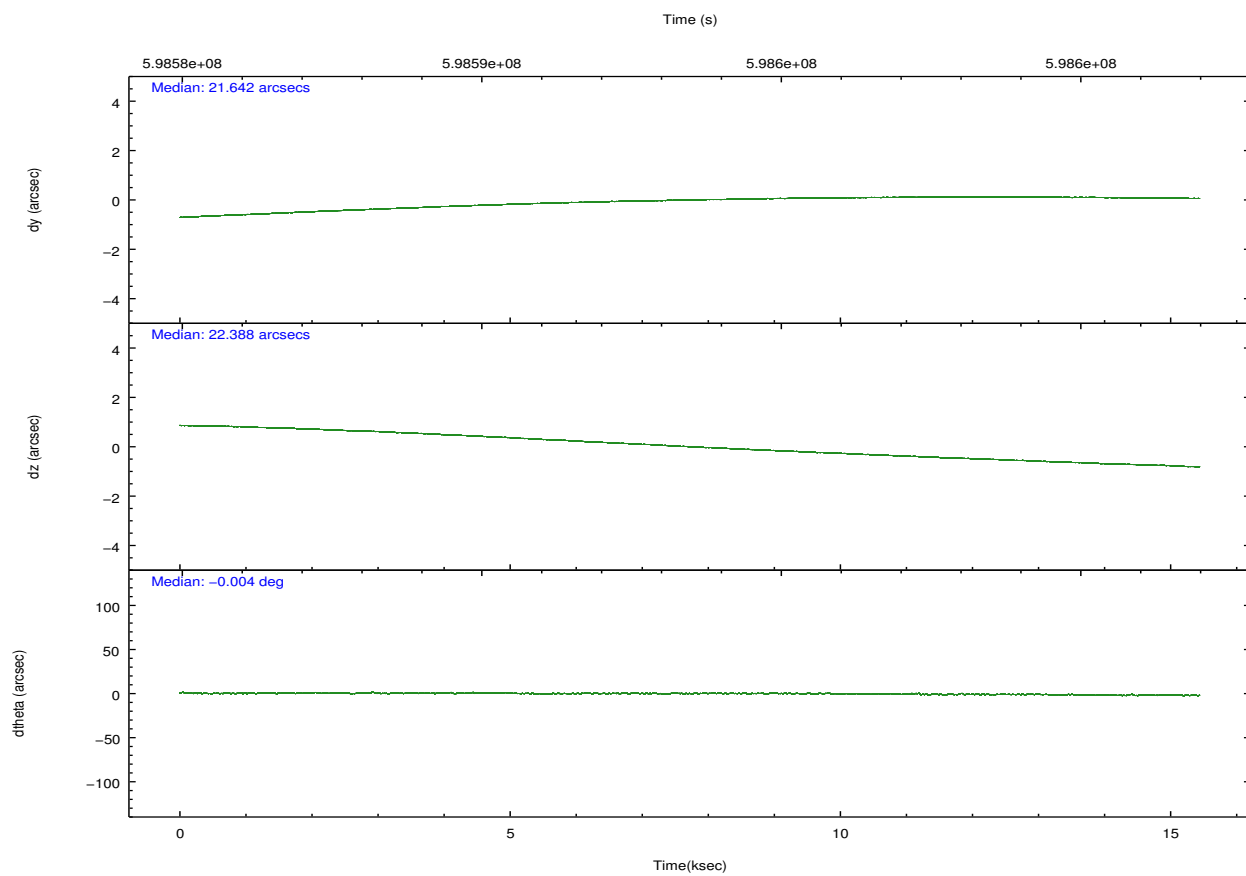
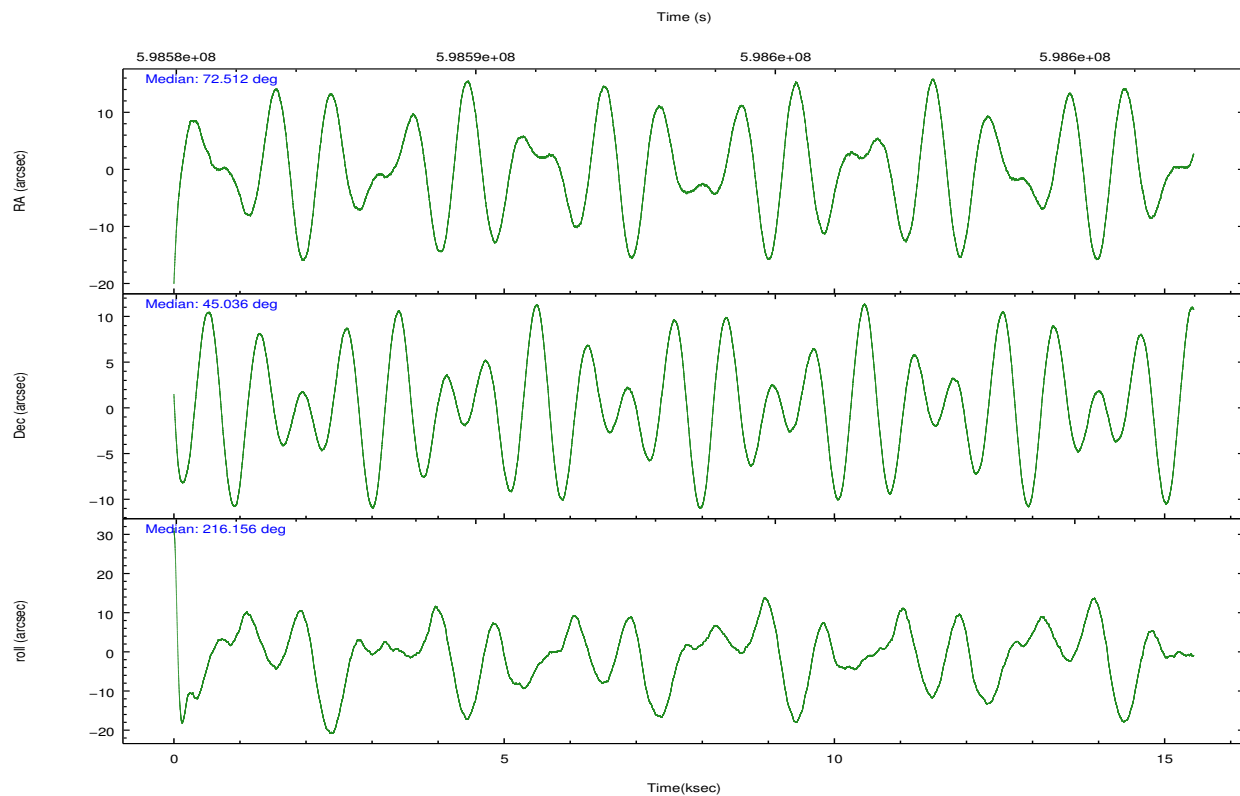
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	72.526626	72.51140623783938
[deg] Pointing Dec	45.061453	45.03619406926907
[deg] Pointing Roll	215.998560	216.1659839354958
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	598585929.184000	598584781.0662301
Observation start date	2016-12-20T01:51:01	2016-12-20T01:33:01
[s] Observation end time (MET)	598601187.184000	598601408.61719
Observation end date	2016-12-20T06:05:19	2016-12-20T06:10:08
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



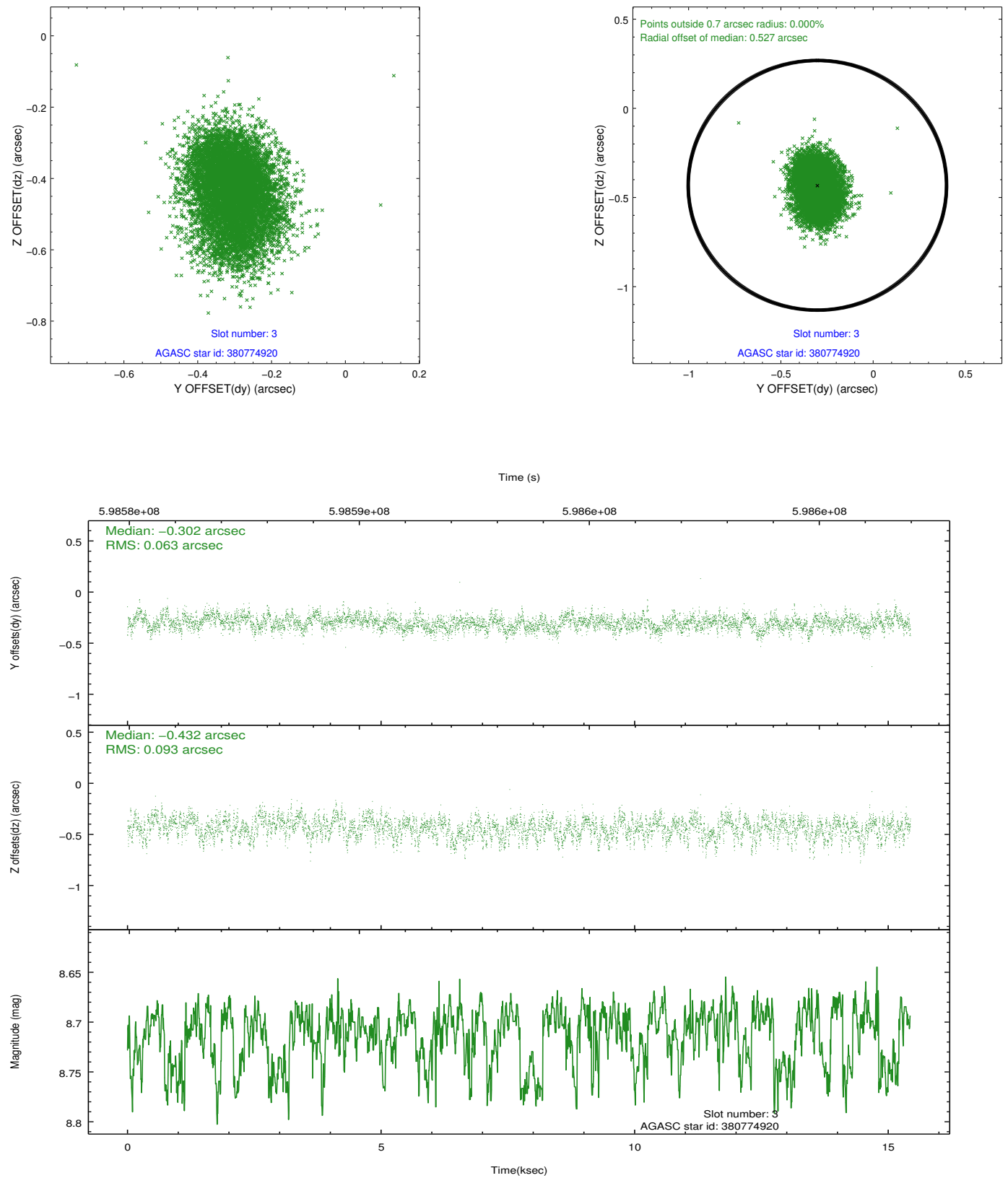


Slot Statistics

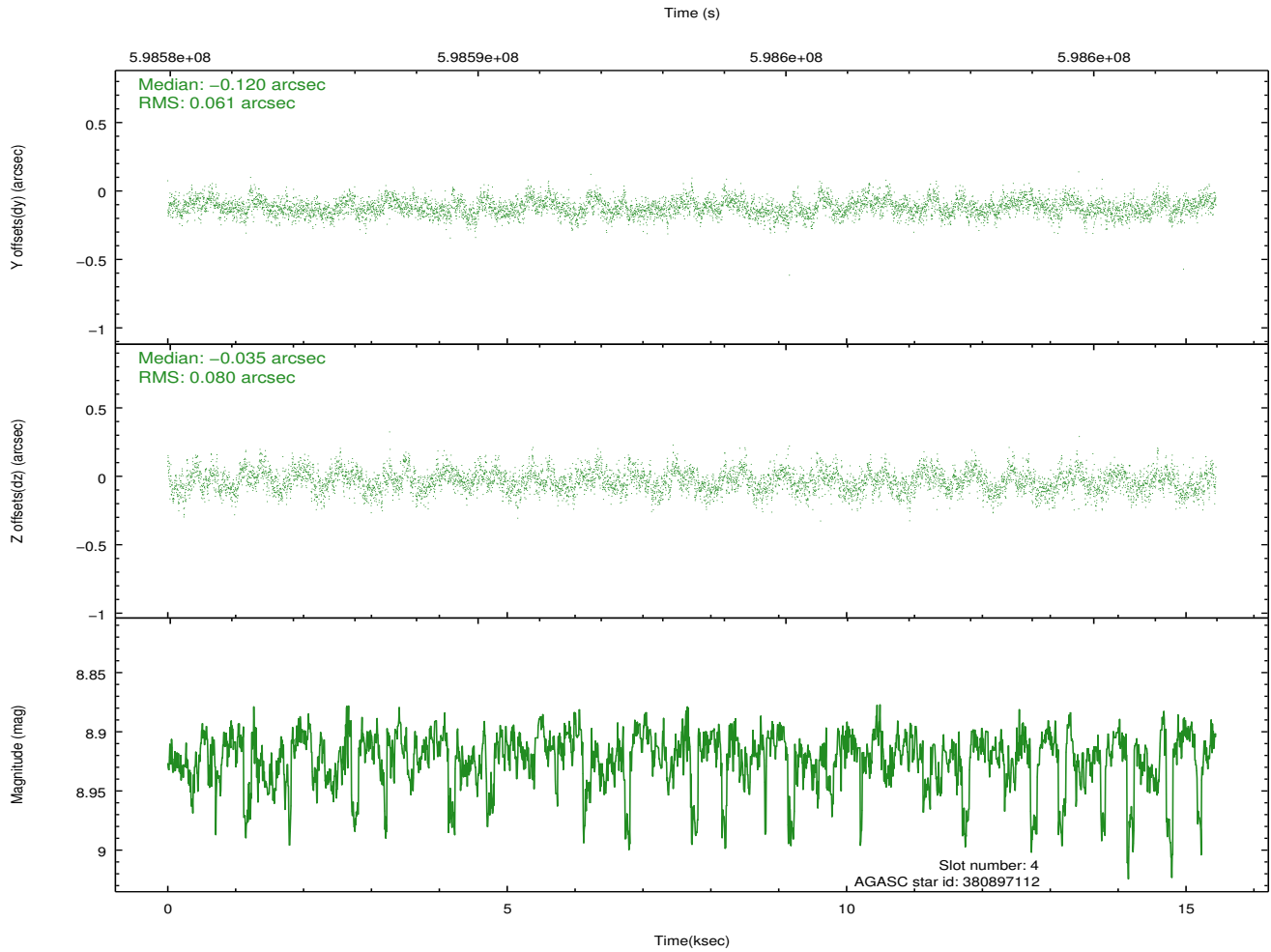
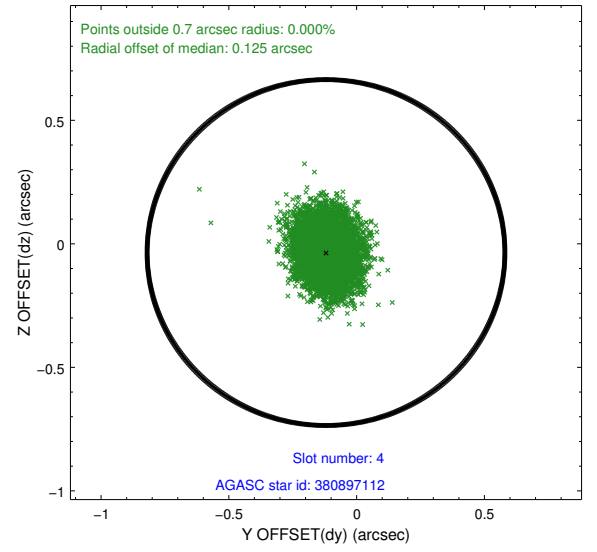
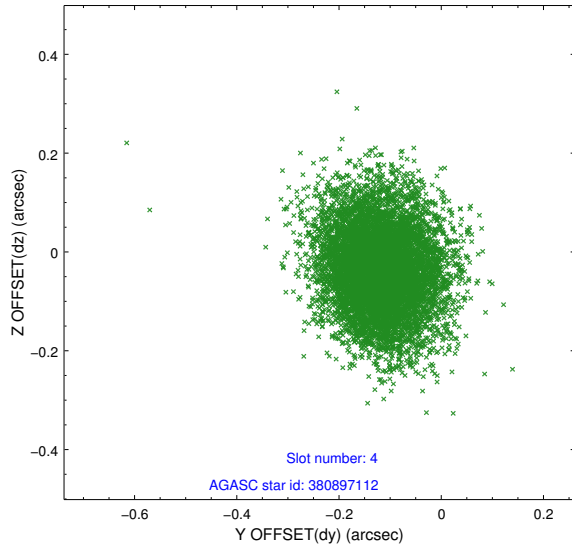
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	3766	-0.208	-0.142	0.010	0.017	0.000000	0.000000	-774.87	-1744.09
1	FID		ACIS-S-4	7.07	3765	0.457	0.138	0.009	0.019	0.000000	0.000000	2138.92	164.39
2	FID		ACIS-S-5	7.07	3766	-0.281	0.012	0.012	0.025	0.000000	0.000000	-1827.43	158.24
3	GUIDE	used	380774920	8.71	7527	-0.302	-0.432	0.120	0.195	72.360548	44.239624	2085.26	2142.00
4	GUIDE	used	380897112	8.92	7523	-0.120	-0.035	0.106	0.176	73.055571	44.974202	-907.19	1040.71
5	GUIDE	used	438174168	9.05	7517	-0.010	0.047	0.139	0.221	71.685812	45.177000	1475.92	-1599.06
6	GUIDE	used	438176744	9.41	7520	0.313	0.356	0.192	0.301	72.786347	45.702571	-1884.47	-1484.03
7	GUIDE	used	438181784	8.04	7530	0.111	0.085	0.122	0.199	71.972233	45.489356	224.58	-2071.95

2.4 Star Slots

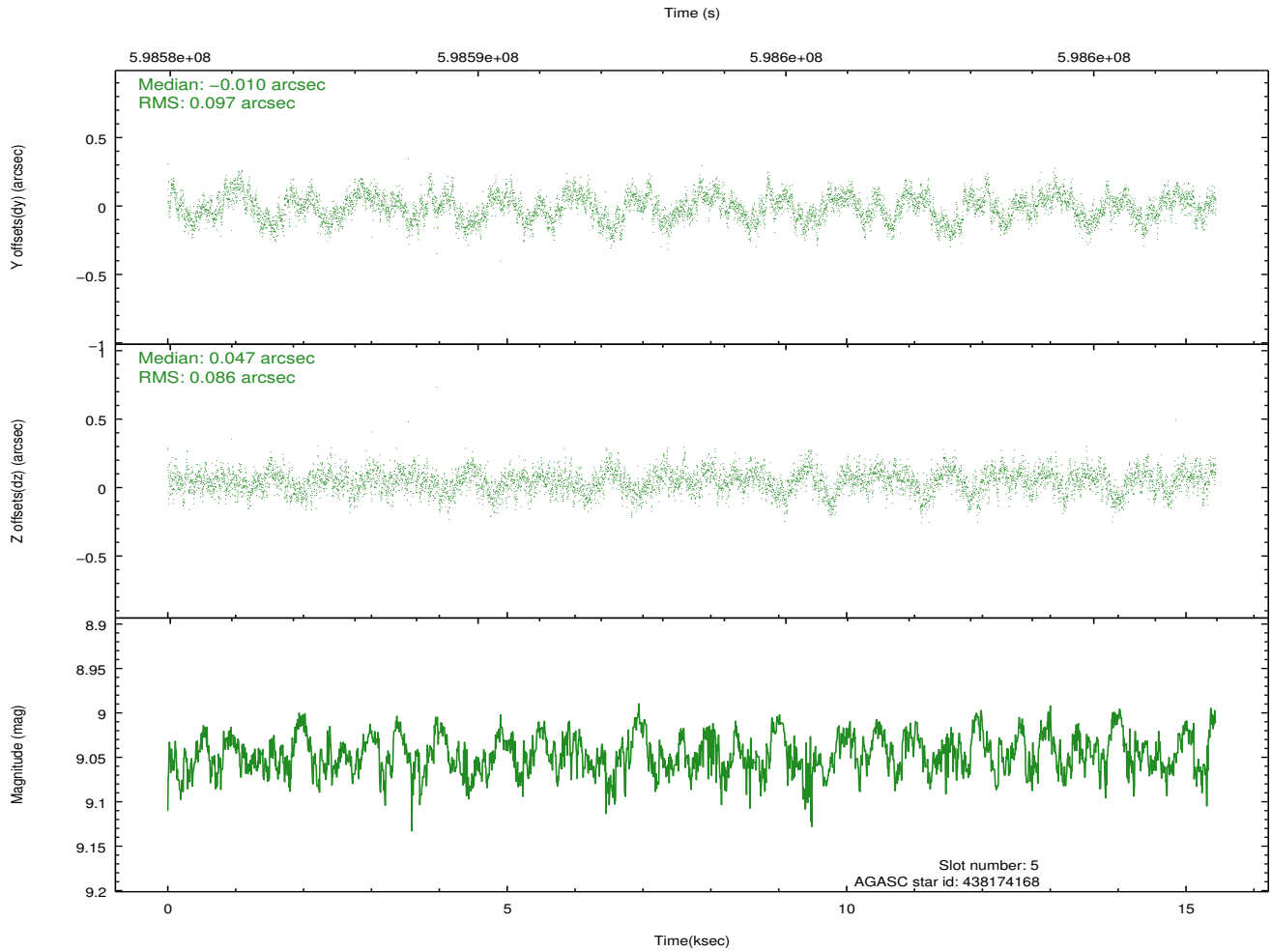
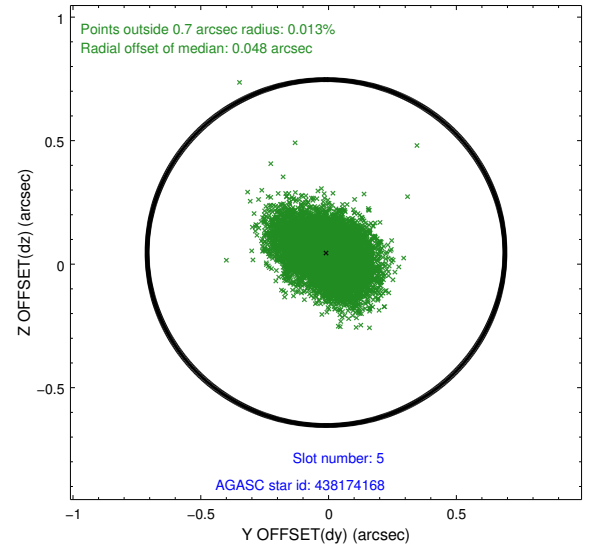
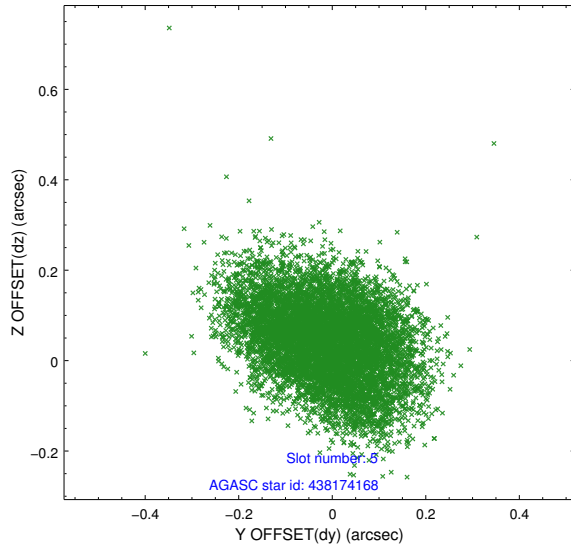
2.4.1 Slot 3



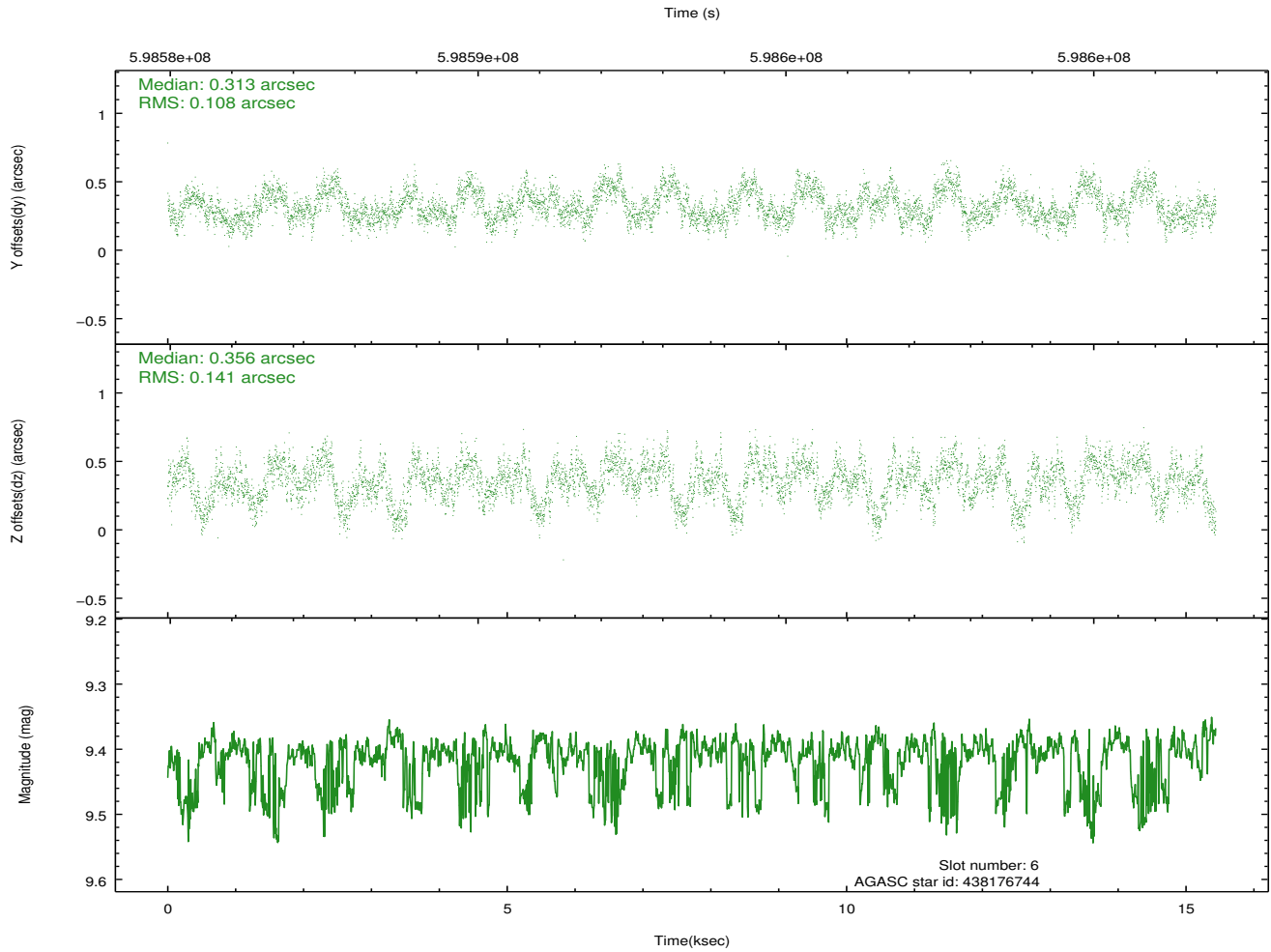
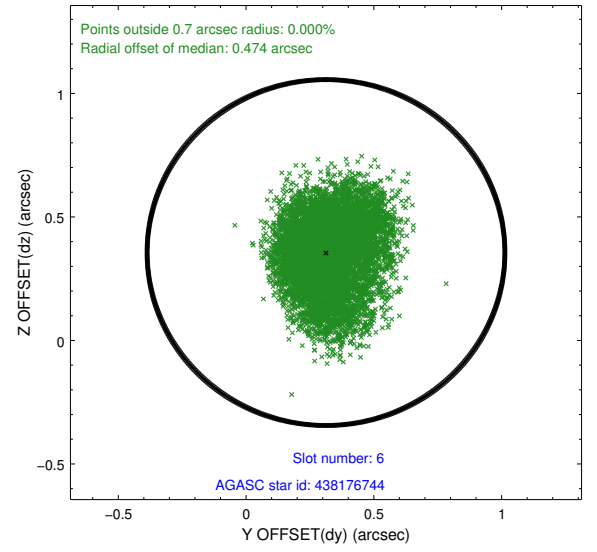
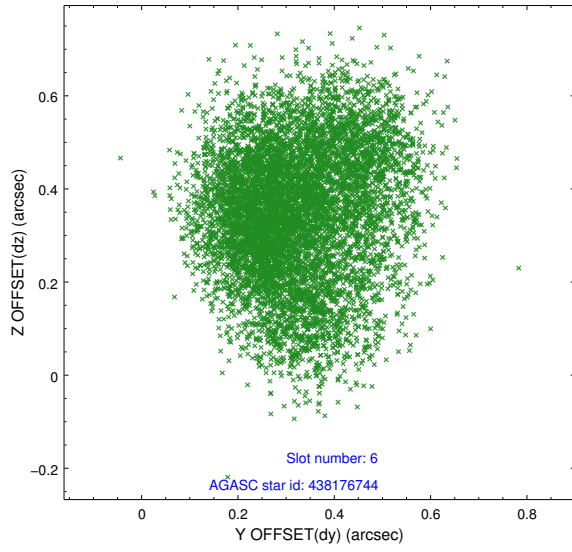
2.4.2 Slot 4



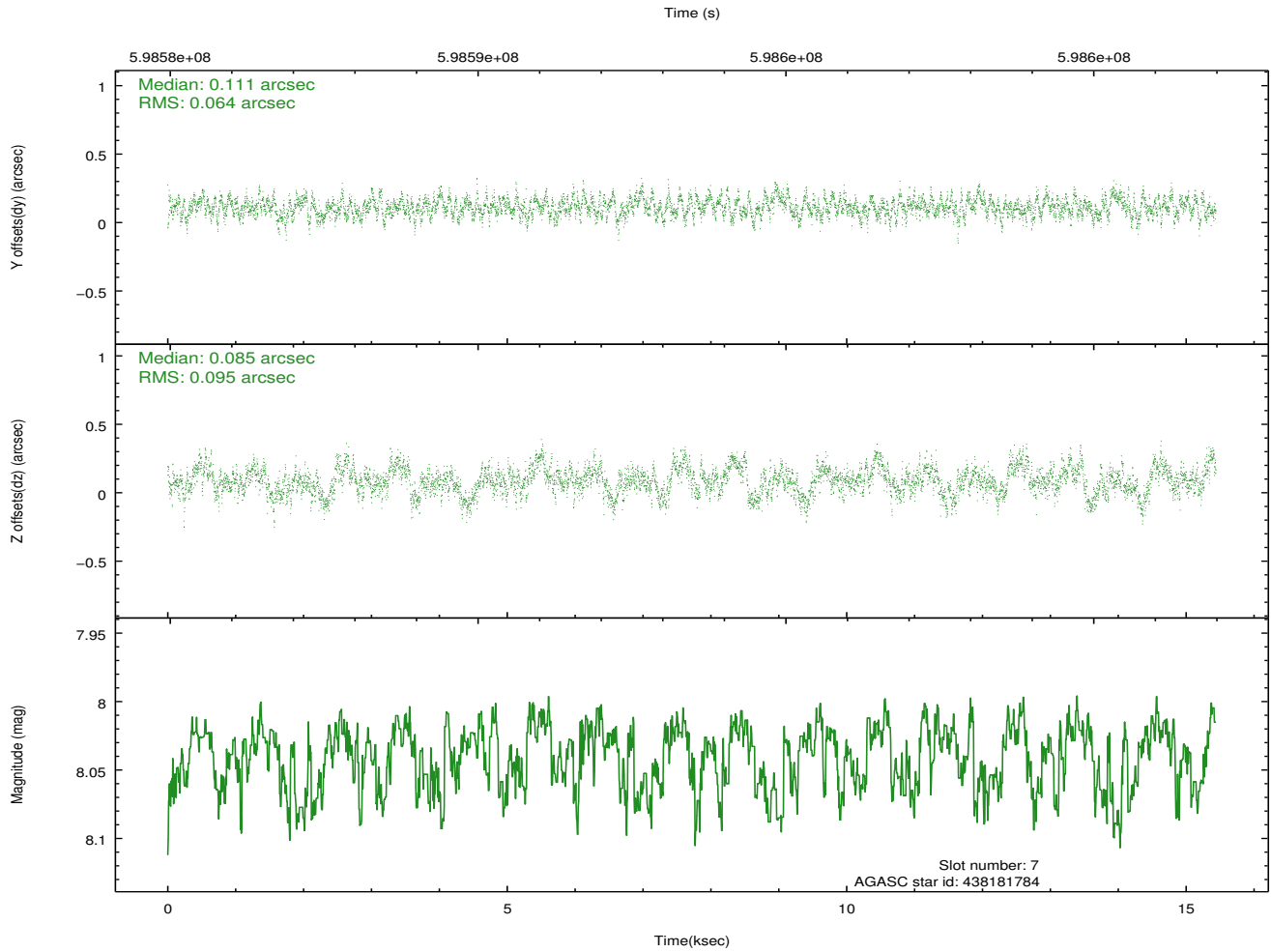
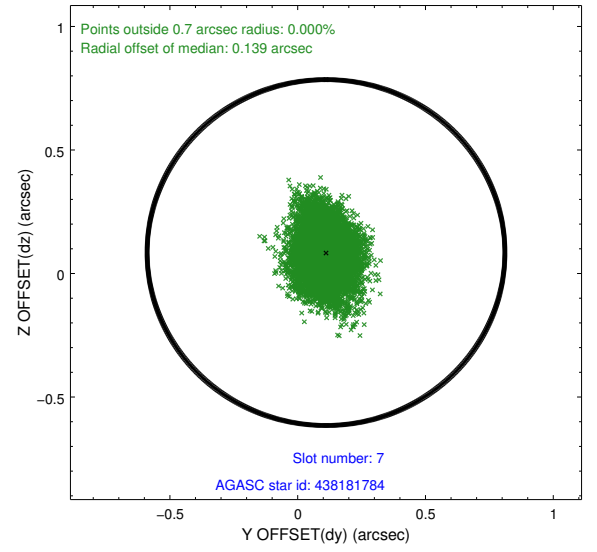
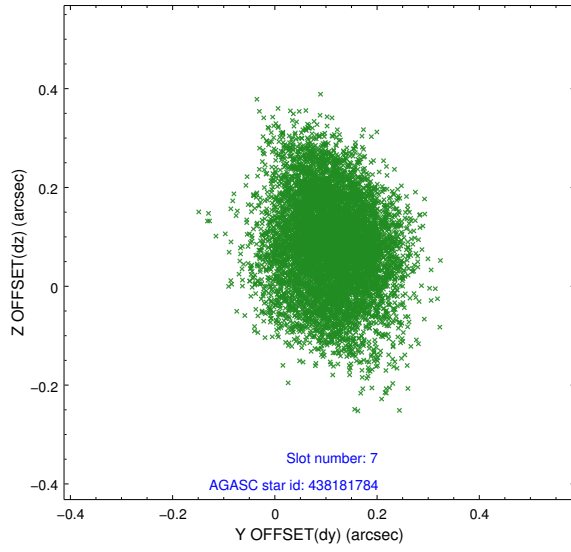
2.4.3 Slot 5



2.4.4 Slot 6

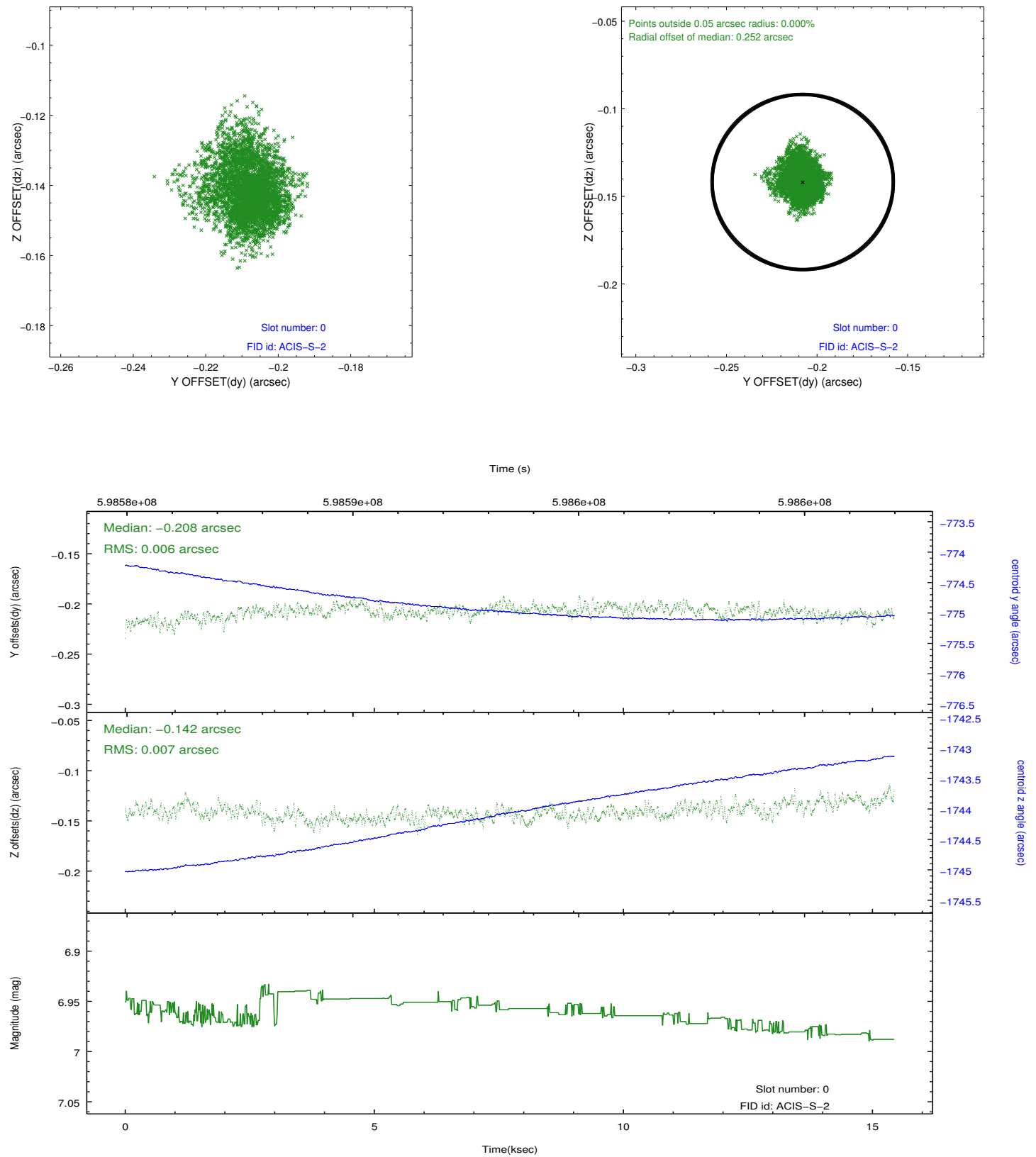


2.4.5 Slot 7

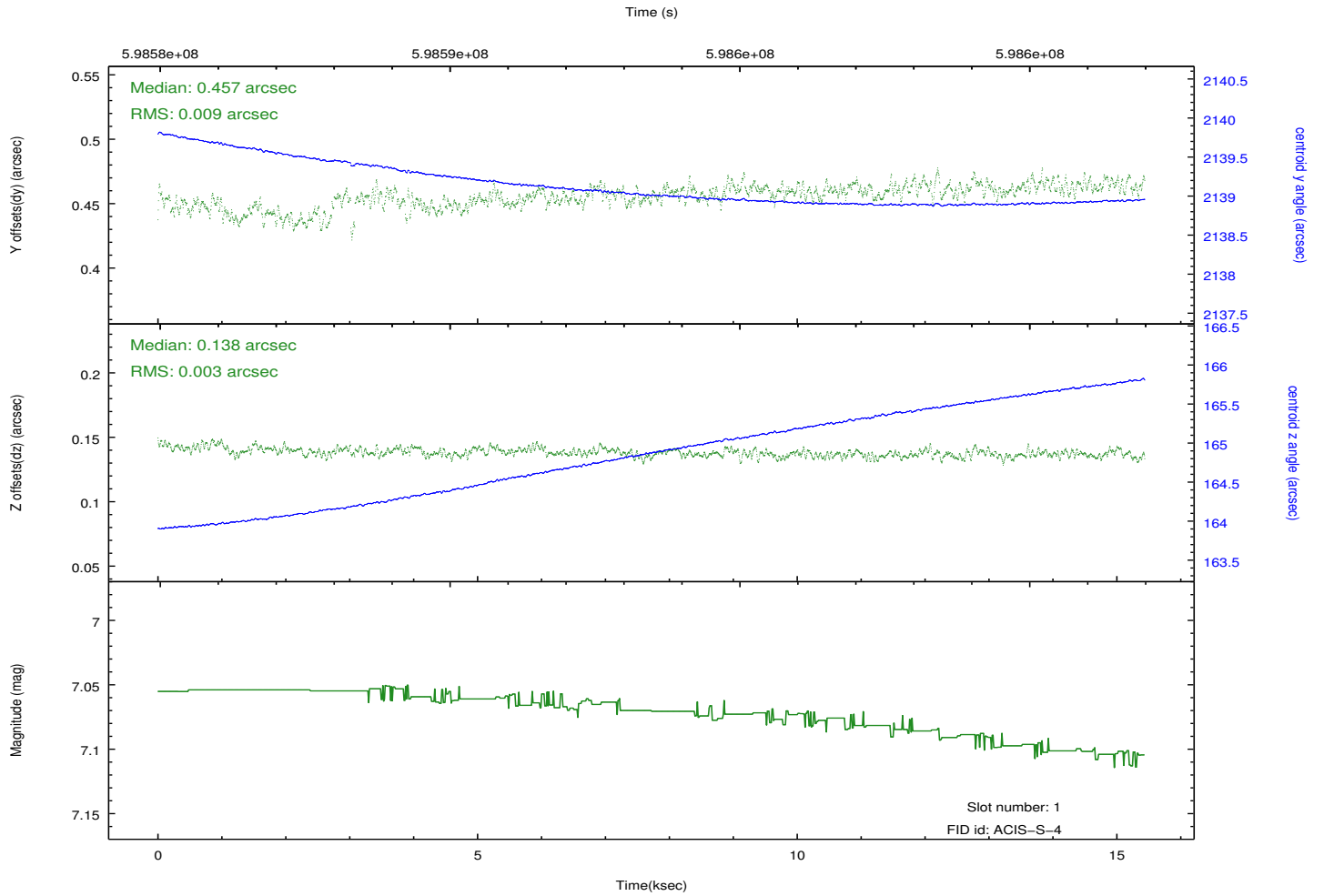
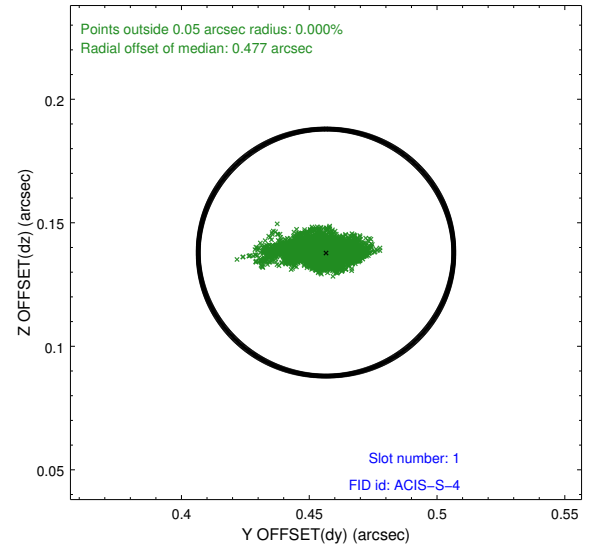
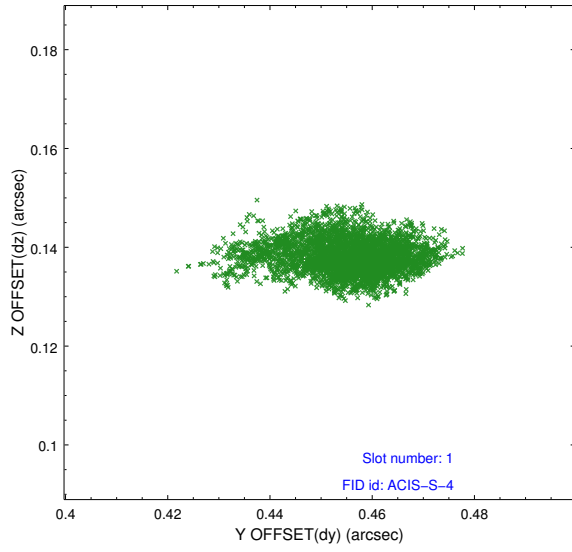


2.5 FID Slots

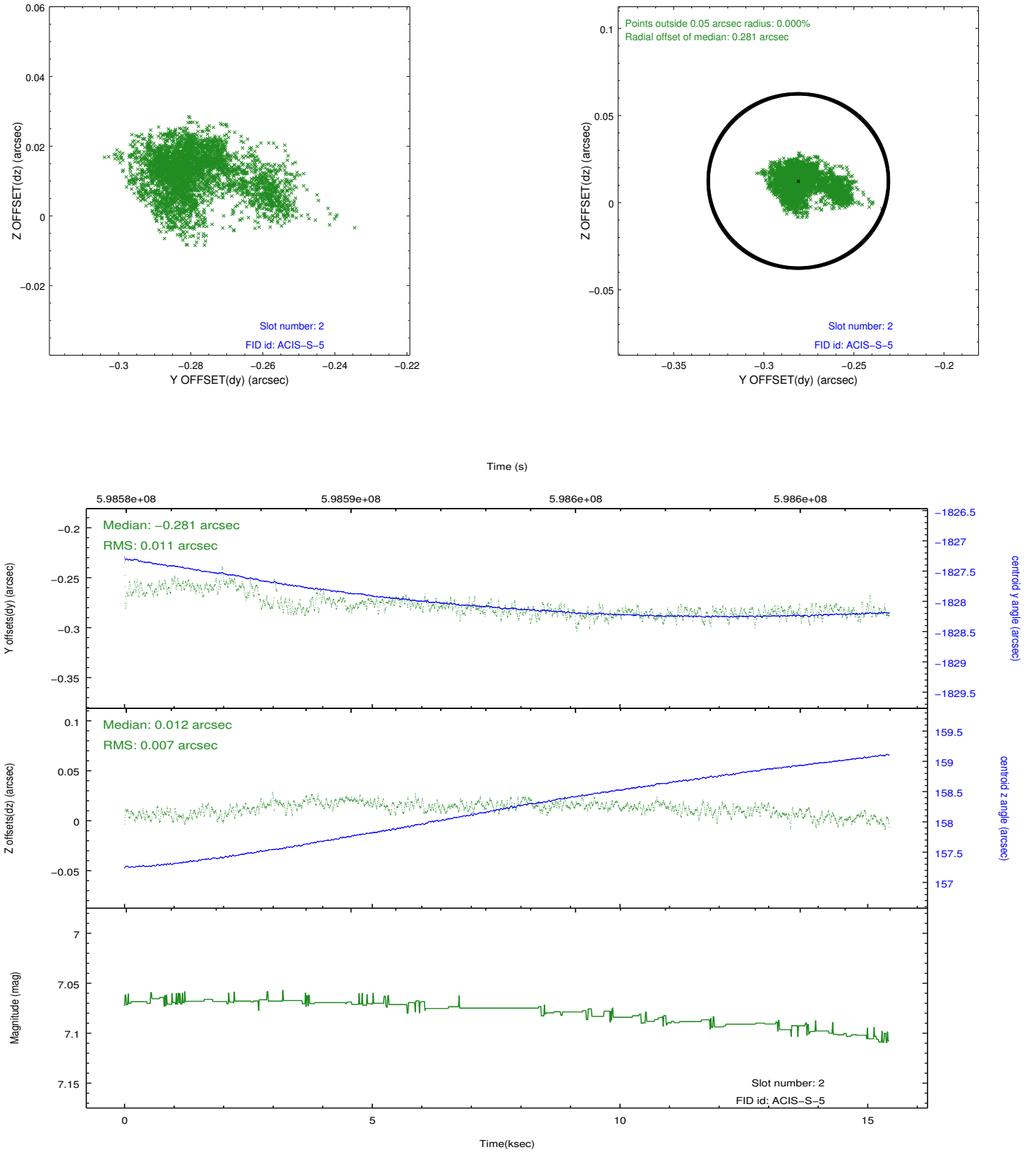
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.317100117922

A.2 Comments