

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18248 - L2 Version 1
Chandra X-Ray Center

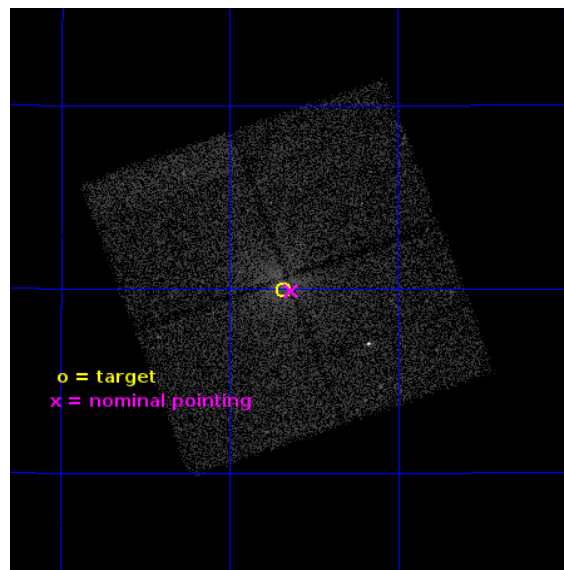
L2 Processing Date : Jan 5 2016

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

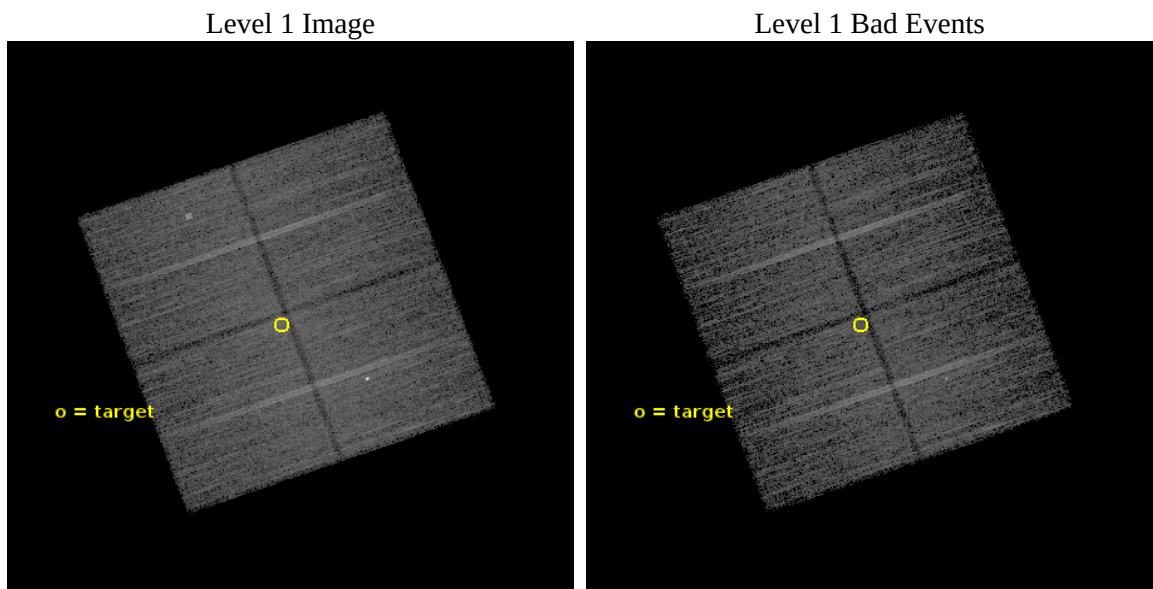
seq_num	801572	Sequence number
obs_id	18248	Observation id
title	X-ray/dynamical masses with the complete CHeCS sample	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	ZWCL1478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	119.919167	Observer's specified target RA [deg]
dec_targ	53.999	Observer's specified target Dec [deg]
ra_nom	119.90797023073	Nominal RA [deg]
dec_nom	53.99875422029	Nominal Dec [deg]
roll_nom	160.21776586484	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20078.649463415	Sum of GTIs [s]
livetime	19816.307126489	Livetime [s]
ontime0	20078.526343465	Sum of GTIs [s]
ontime1	20078.567383289	Sum of GTIs [s]
ontime2	20078.608453393	Sum of GTIs [s]
ontime3	20078.649463415	Sum of GTIs [s]
l2events	52963	Number of level 2 events



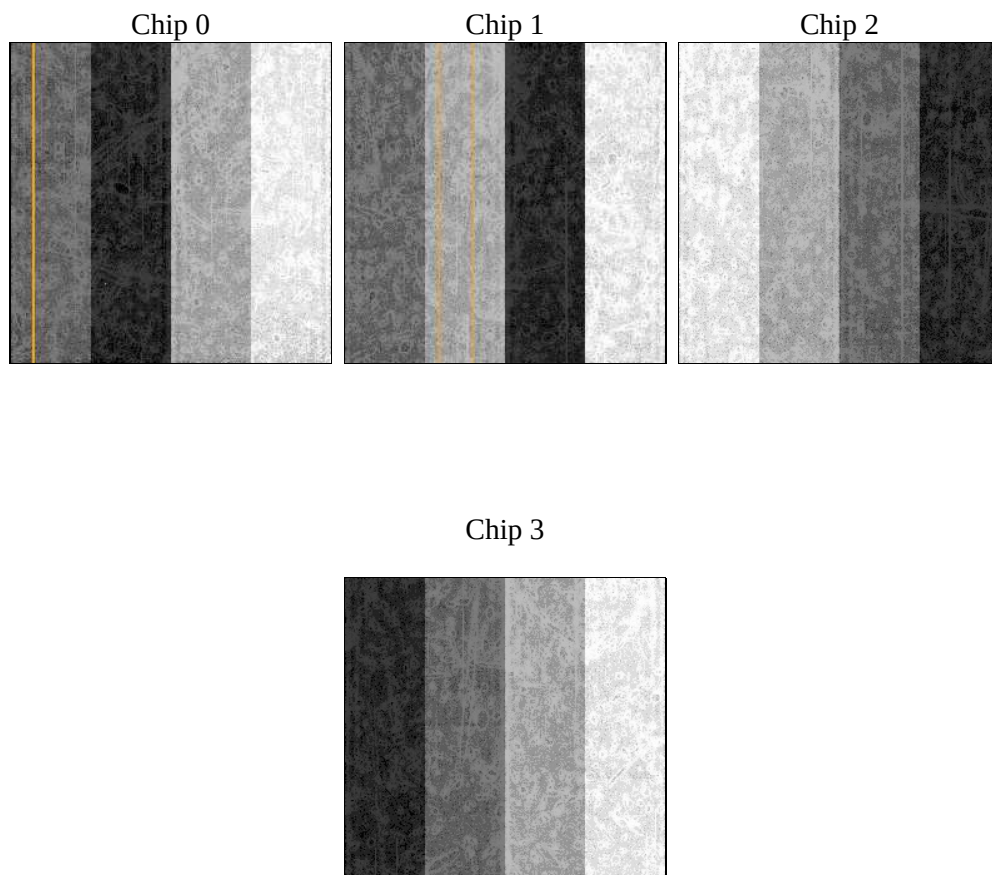
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	20078.649463415	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	20078.526343465	Sum of GTIs [s]
date	2016-01-06T00:51:23	Date and time of file creation	ontime1	20078.567383289	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20078.608453393	Sum of GTIs [s]
			ontime3	20078.649463415	Sum of GTIs [s]
			l1events	450538	Number of level 1 events

2.1.4 Events

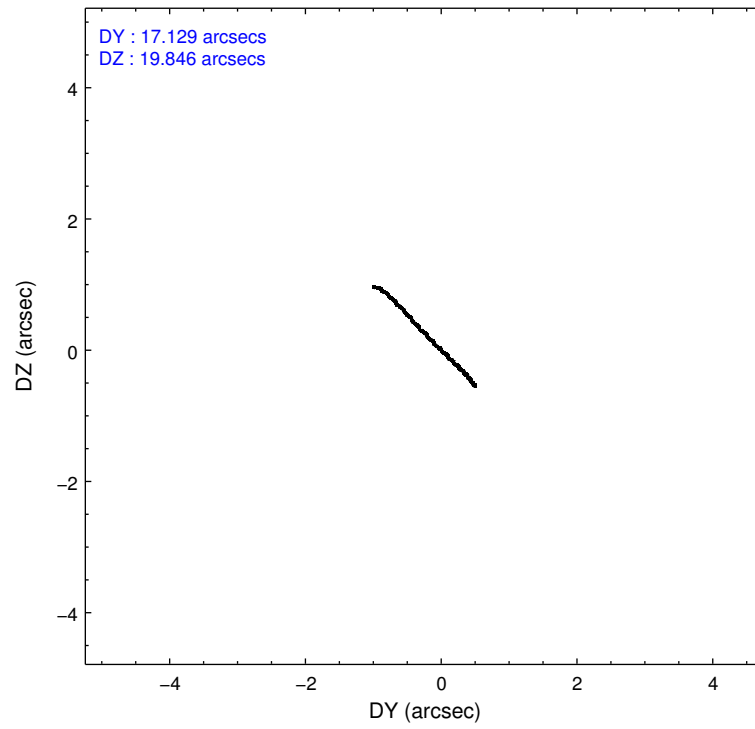
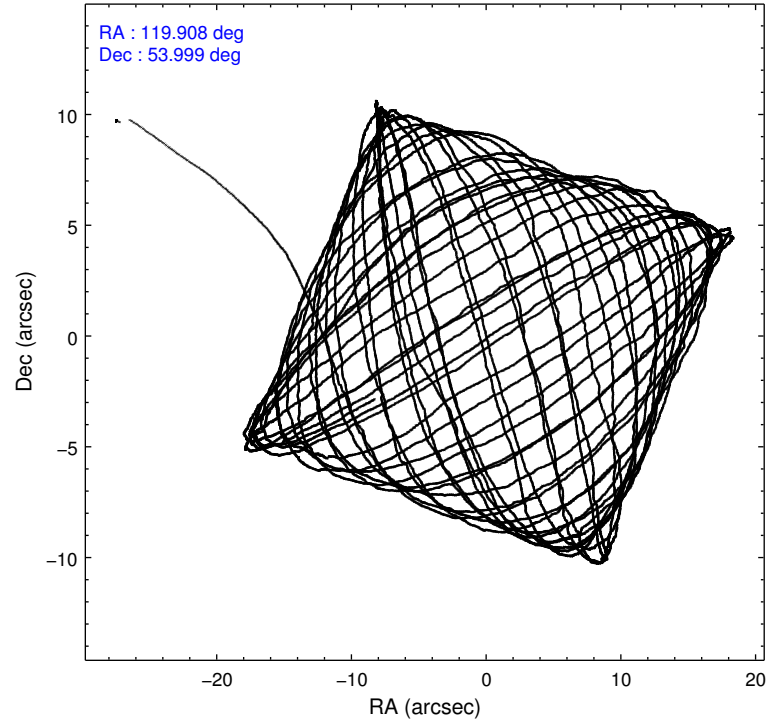
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	106242	111197	119621	113478
rejected events	92364	93902	100965	99160
rejected %	86%	84%	84%	87%

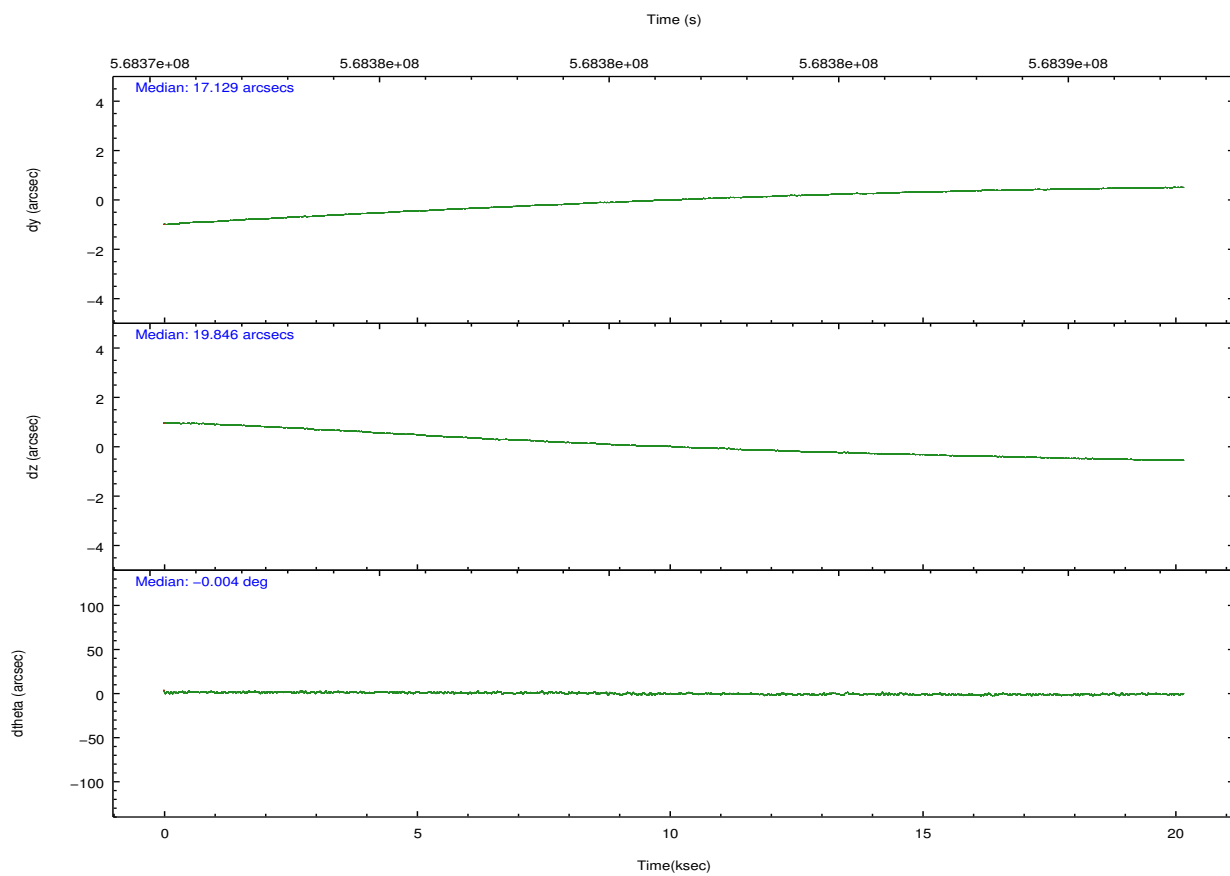
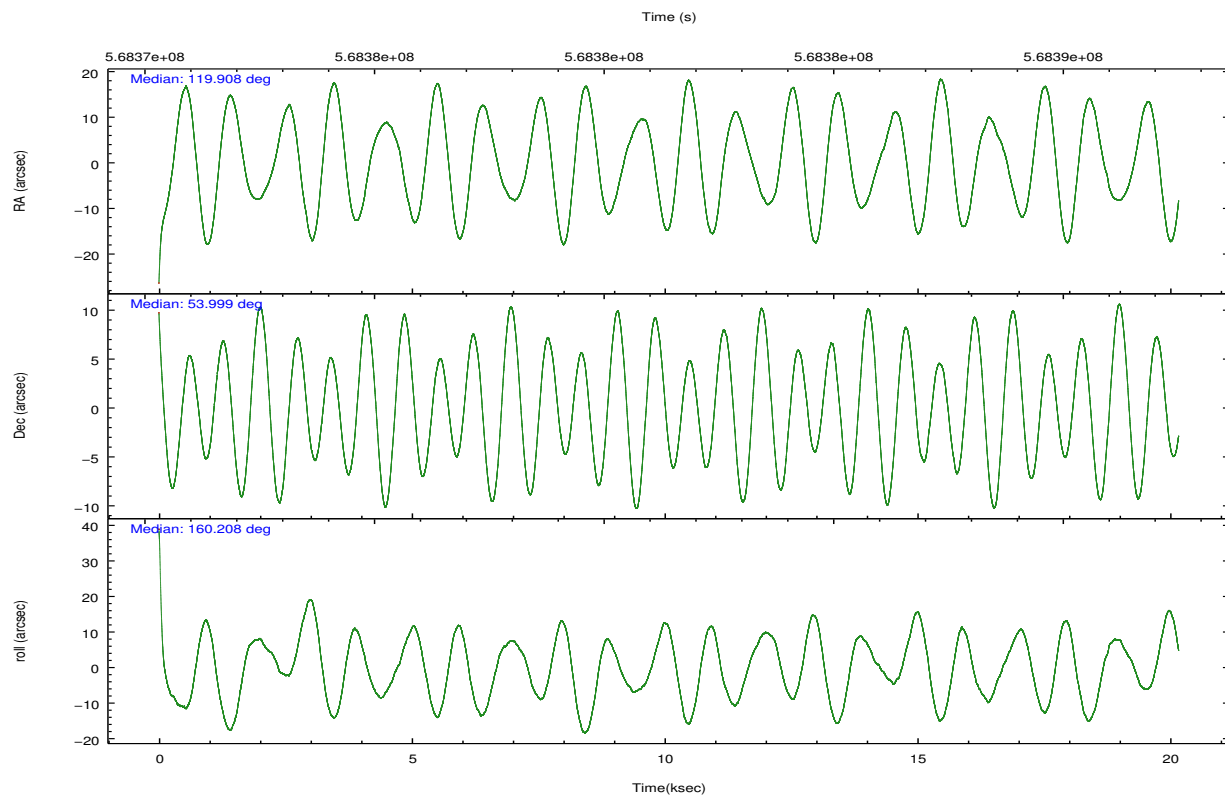
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5067	7406	9127	5805
	4%	6%	7%	5%
grade 1 events	57	64	174	64
	0%	0%	0%	0%
grade 2 events	3338	3877	3833	2943
	3%	3%	3%	2%
grade 3 events	1425	1355	1505	1386
	1%	1%	1%	1%
grade 4 events	1353	1462	1494	1379
	1%	1%	1%	1%
grade 5 events	5349	5439	5191	5833
	5%	4%	4%	5%
grade 6 events	2708	3200	2704	2806
	2%	2%	2%	2%
grade 7 events	86945	88394	95593	93262
	81%	79%	79%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	119.954206	119.9079702307264	CCD I2 on	Y	Y
[deg] Pointing Dec	54.003762	53.99875422029025	CCD I3 on	Y	Y
[deg] Pointing Roll	159.971652	160.217765864841	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	N
[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)	568371483.184000	568370165.08626	CCD S5 on	N	N
Observation start date	2016-01-05T08:56:55	2016-01-05T08:36:05	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	568391483.184000	568392266.65	On-chip summing requested	N	N
Observation end date	2016-01-05T14:30:15	2016-01-05T14:44:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



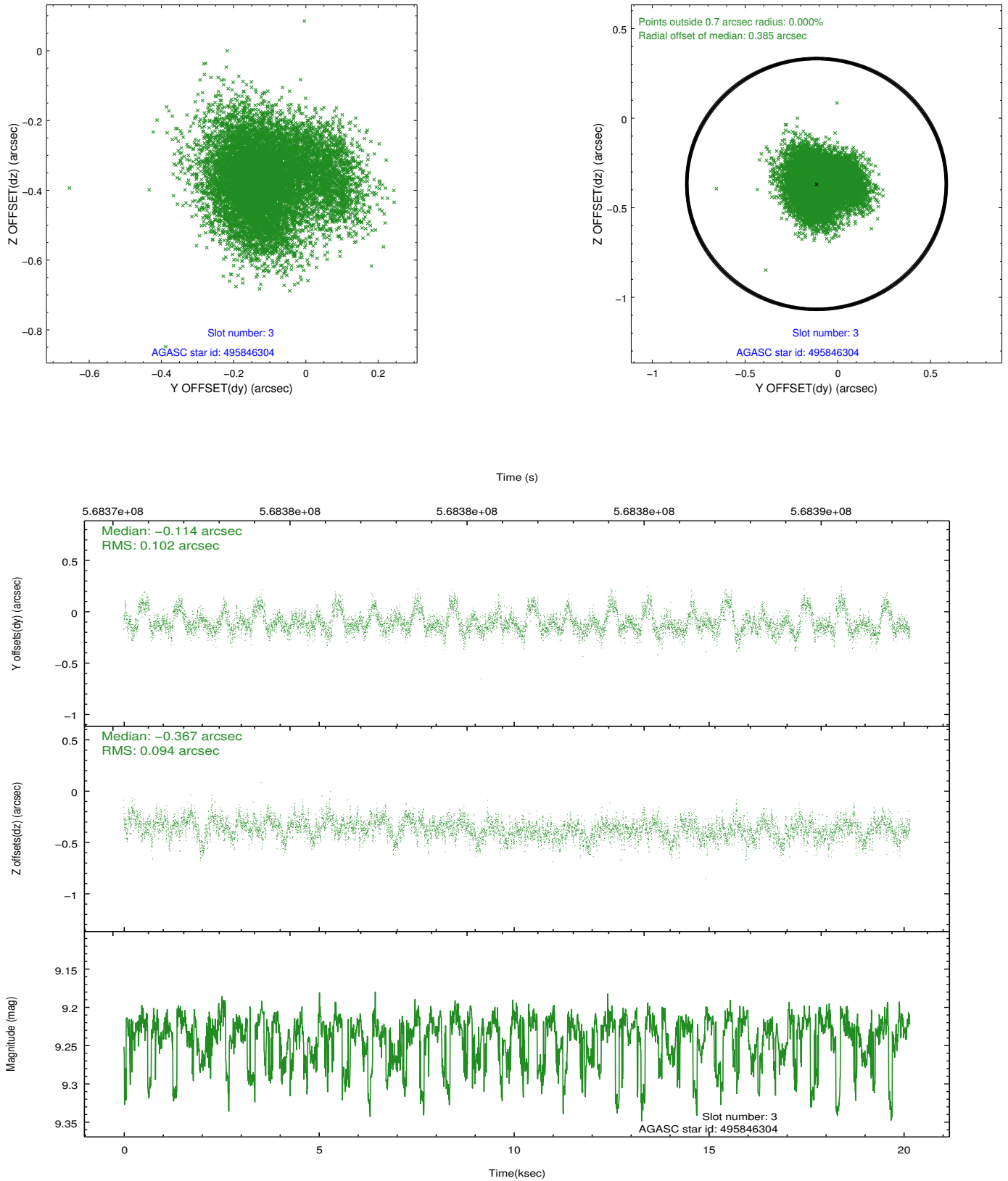


Slot Statistics

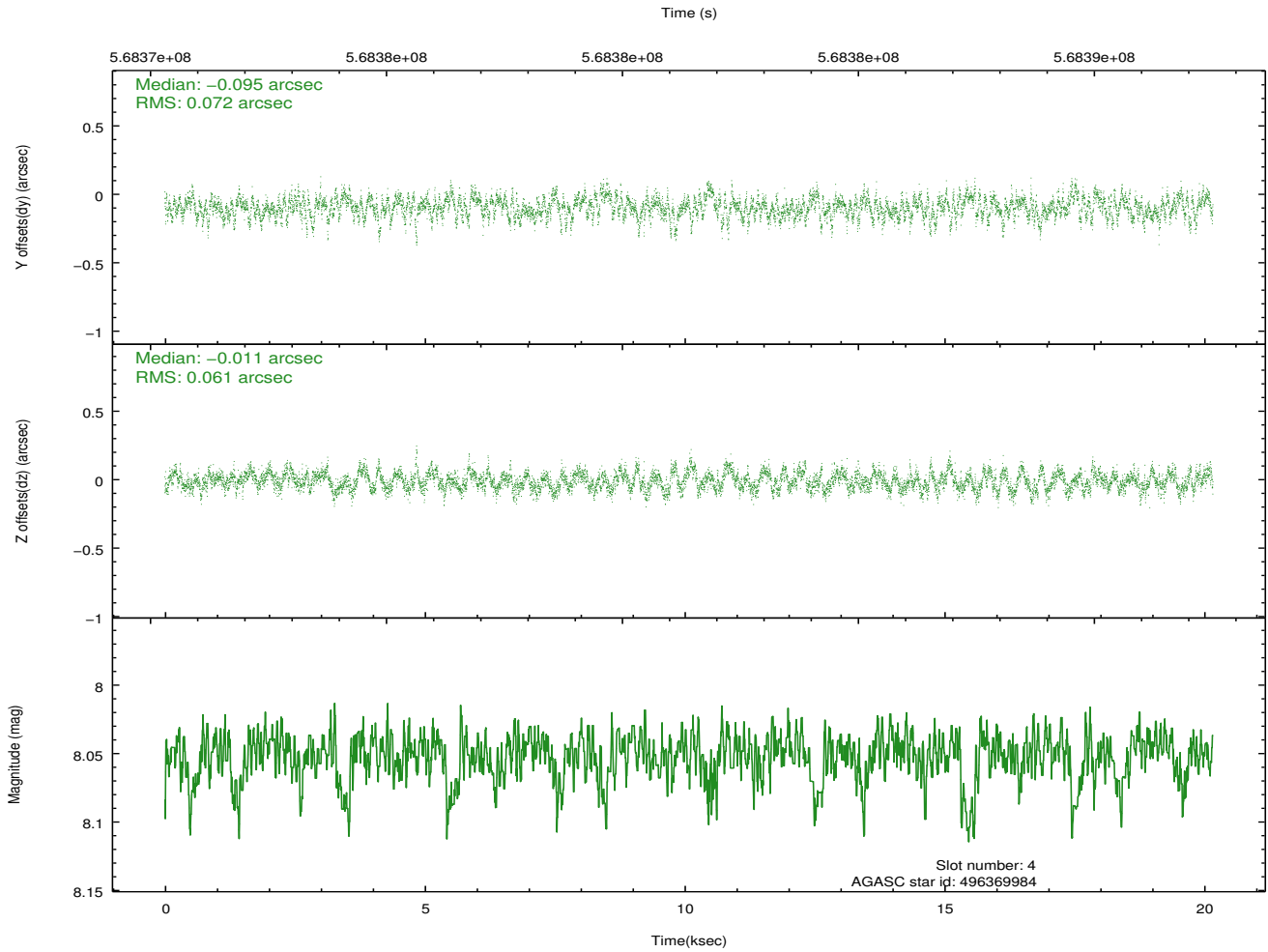
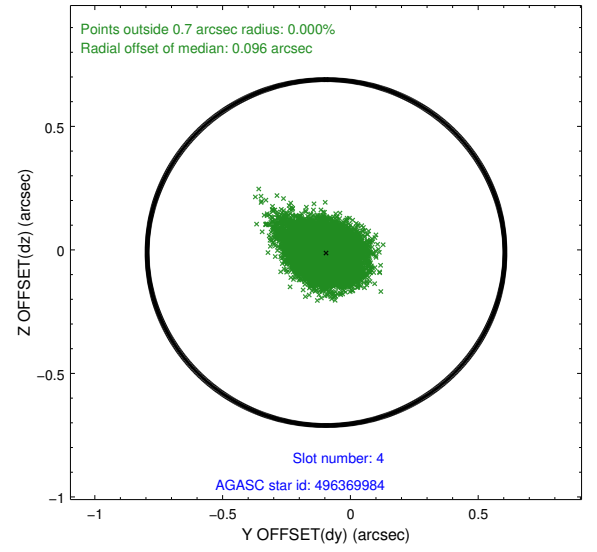
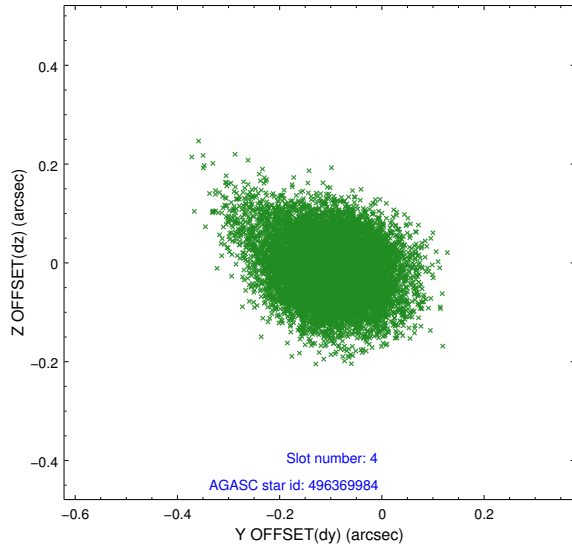
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	4919	-0.163	-0.031	0.013	0.021	0.000000	0.000000	-771.96	-850.08
1	FID		ACIS-I-4	7.19	4916	0.435	0.098	0.030	0.056	0.000000	0.000000	2142.55	1056.22
2	FID		ACIS-I-5	7.24	4920	-0.375	0.001	0.027	0.054	0.000000	0.000000	-1825.82	1054.05
3	GUIDE	used	495846304	9.24	9833	-0.114	-0.367	0.149	0.238	119.959952	53.373090	-789.36	2128.66
4	GUIDE	used	496369984	8.05	9835	-0.095	-0.011	0.100	0.164	119.452088	54.673915	1809.71	-1911.61
5	GUIDE	used	497560648	8.31	9835	0.091	0.351	0.089	0.139	120.884904	54.159790	-1645.63	-1210.72
6	GUIDE	used	497568232	7.93	9833	0.158	0.217	0.099	0.159	120.693980	54.131262	-1305.71	-973.14
7	GUIDE	used	497570112	9.09	9828	-0.043	-0.175	0.167	0.280	120.132936	53.448217	-1045.14	1747.19

2.4 Star Slots

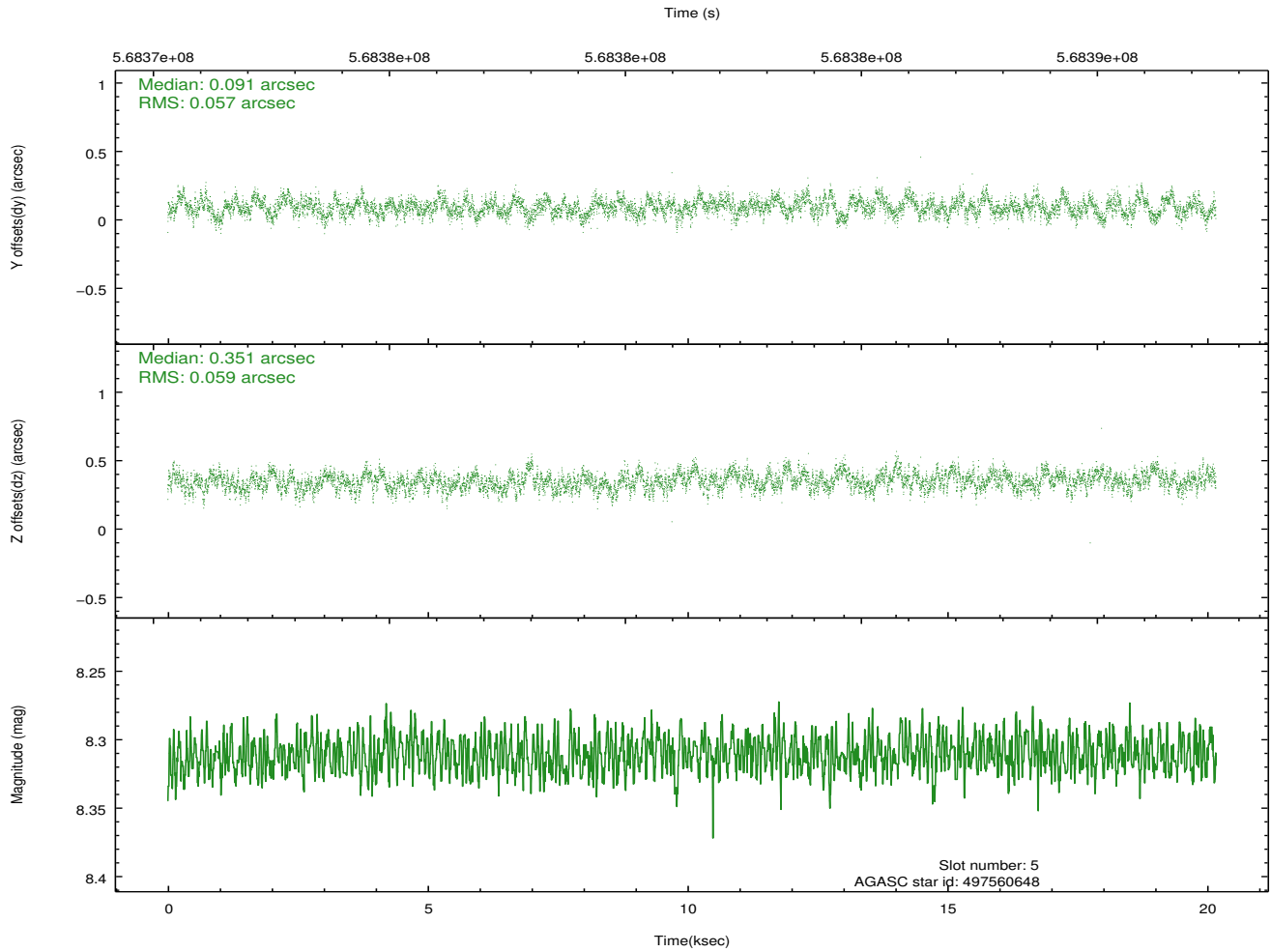
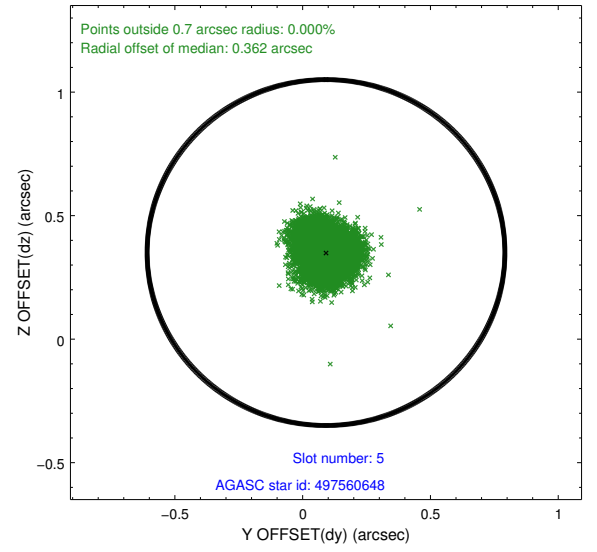
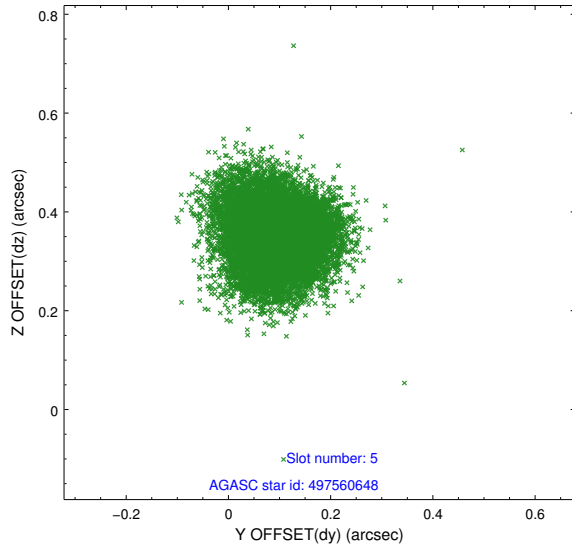
2.4.1 Slot 3



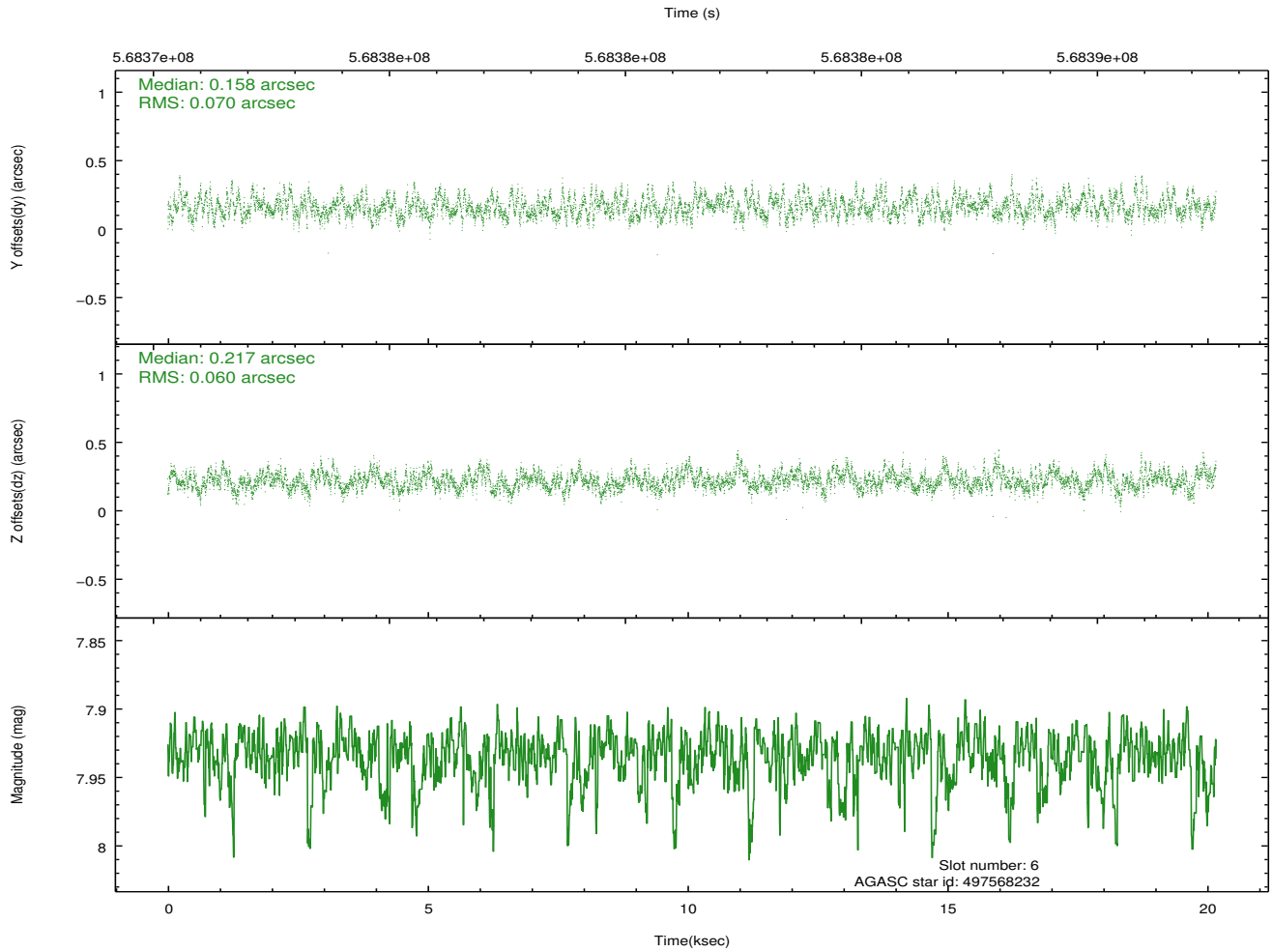
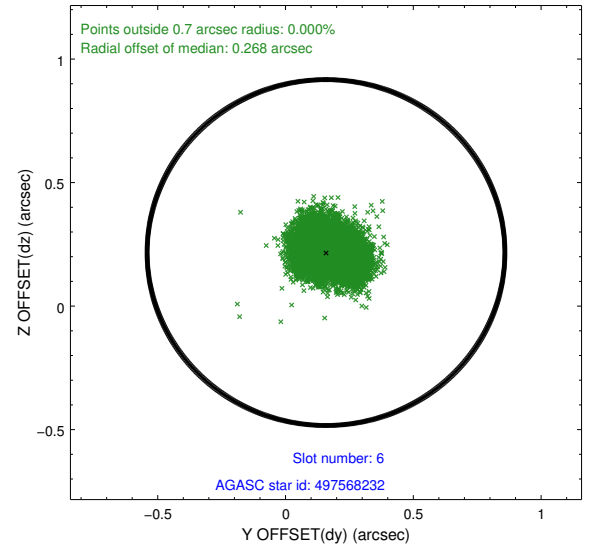
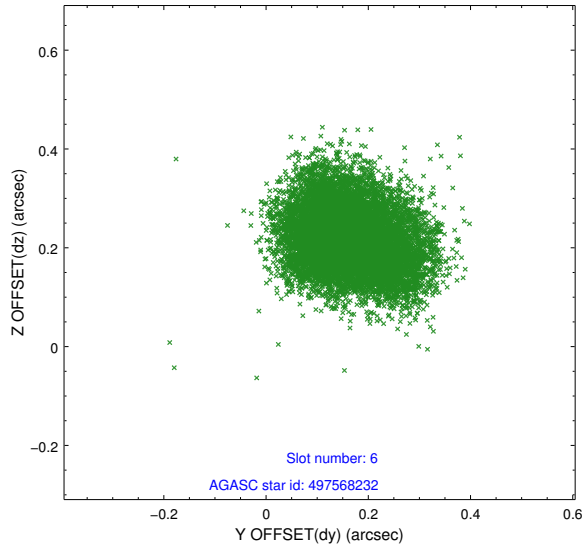
2.4.2 Slot 4



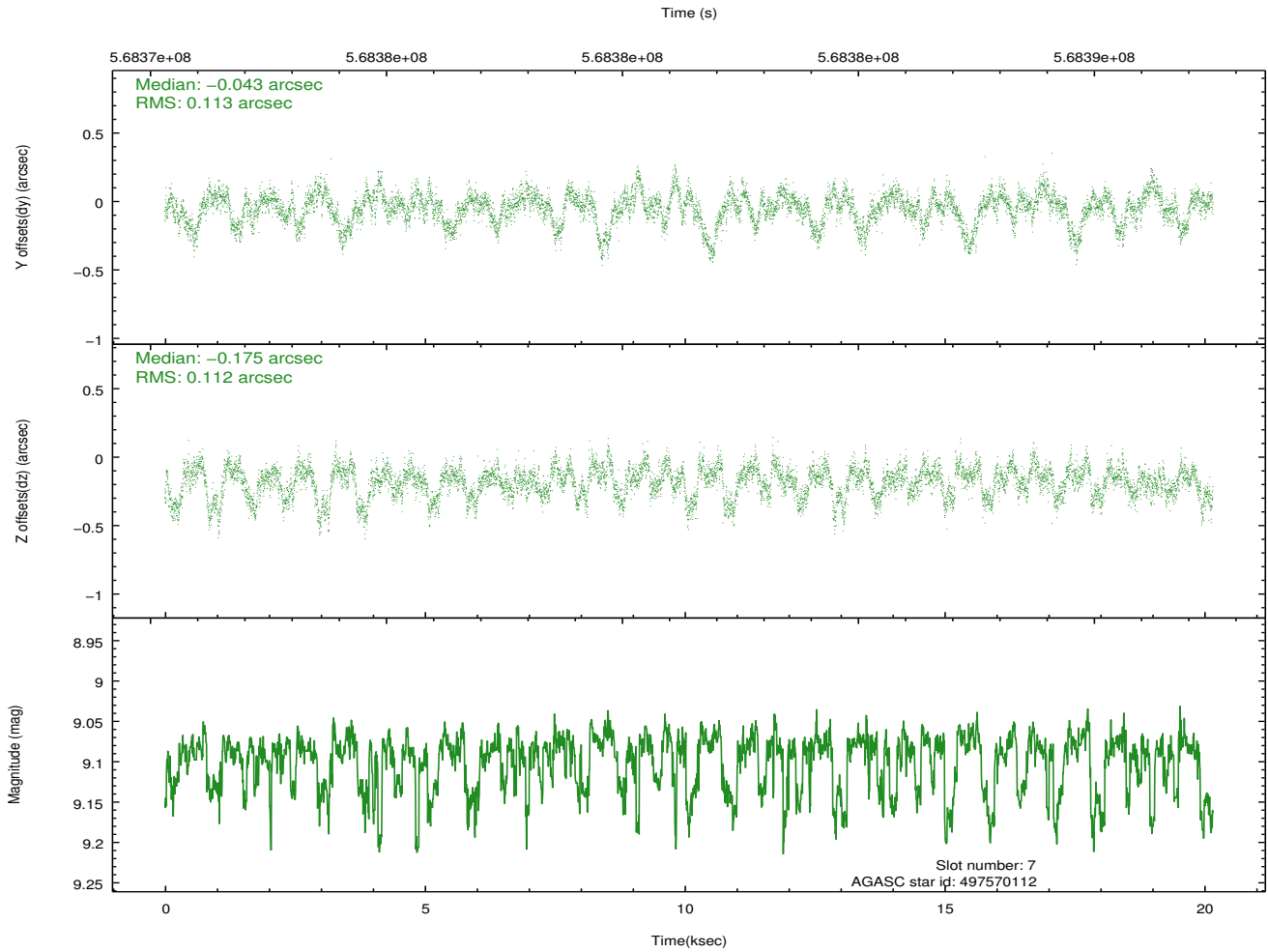
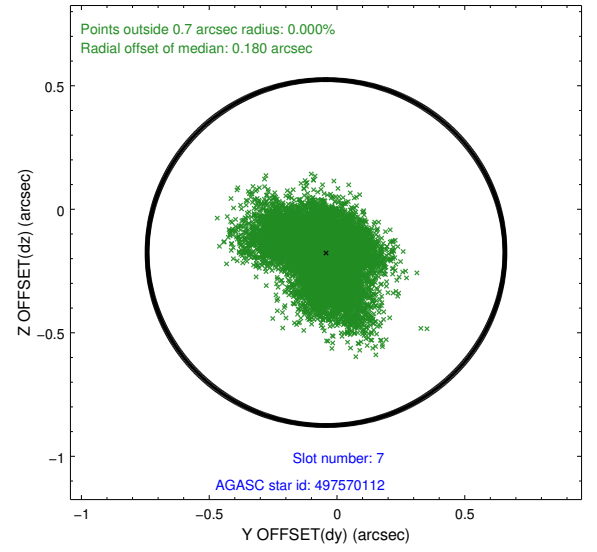
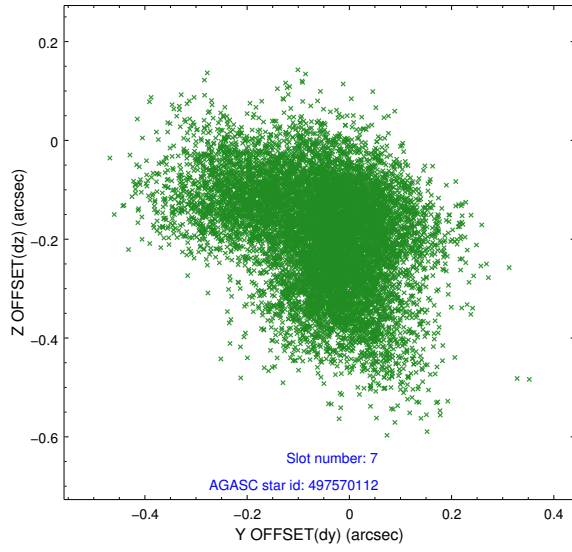
2.4.3 Slot 5



2.4.4 Slot 6

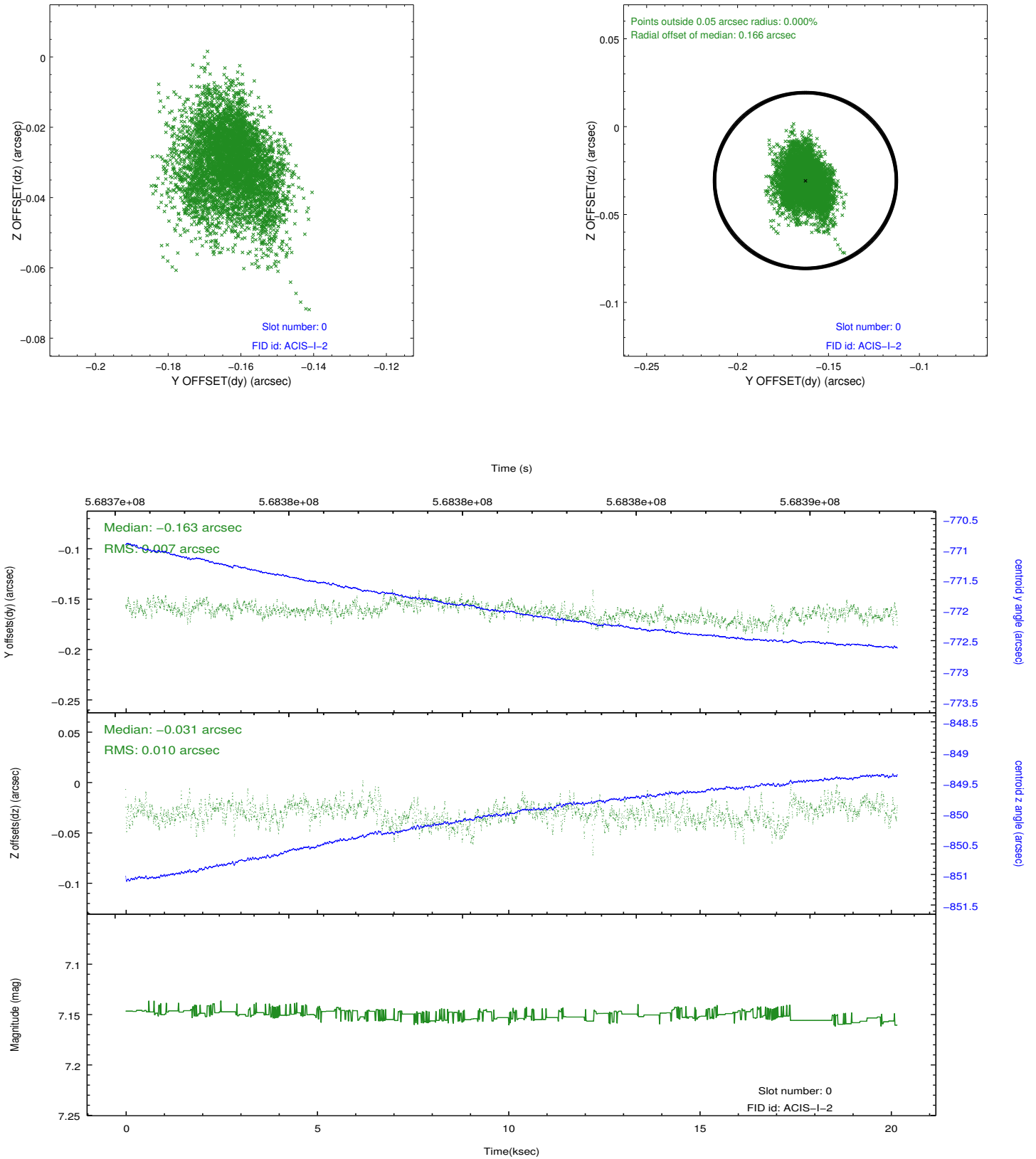


2.4.5 Slot 7

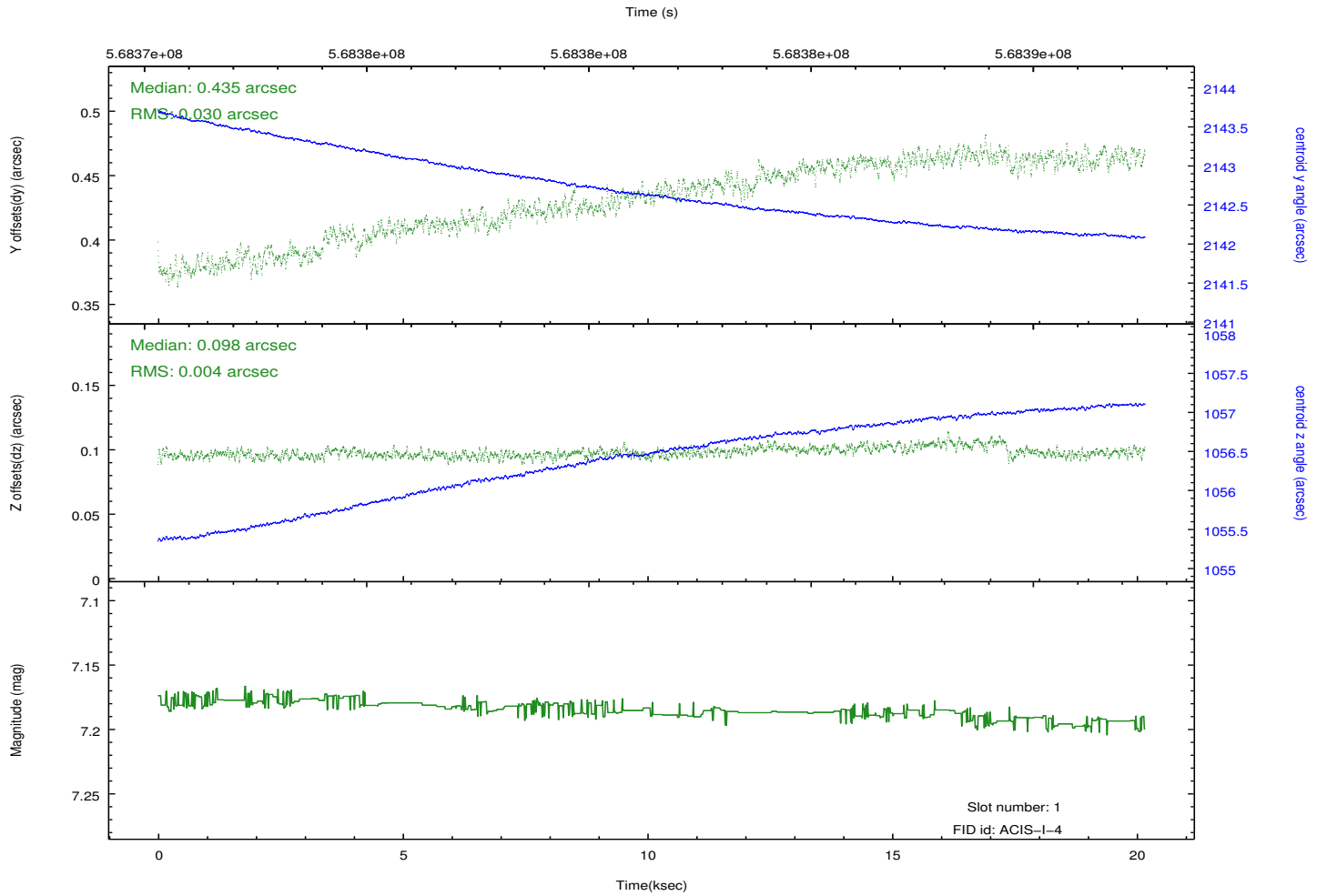
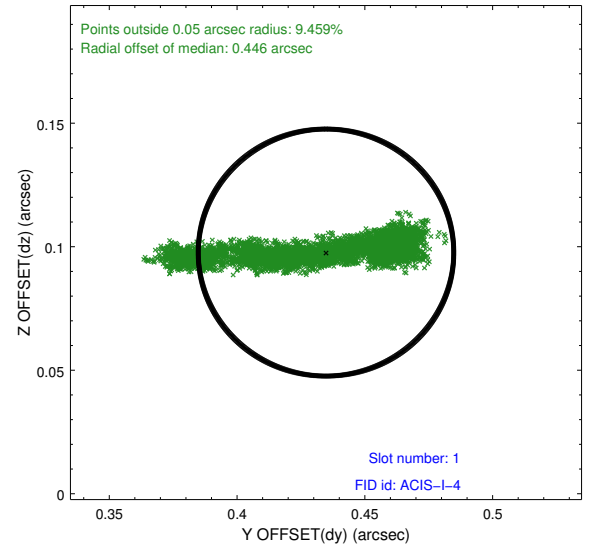
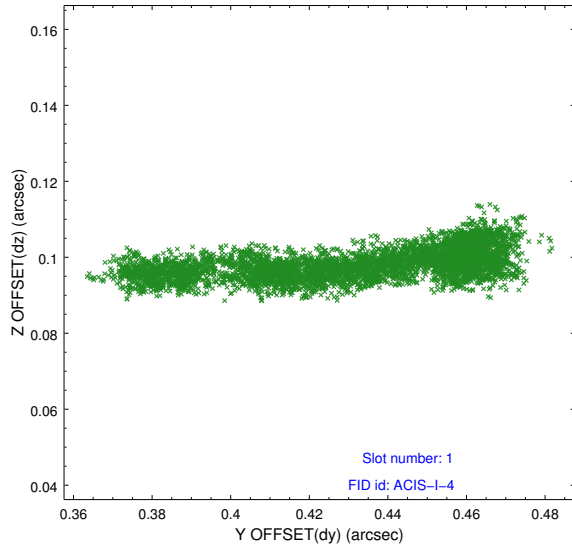


2.5 FID Slots

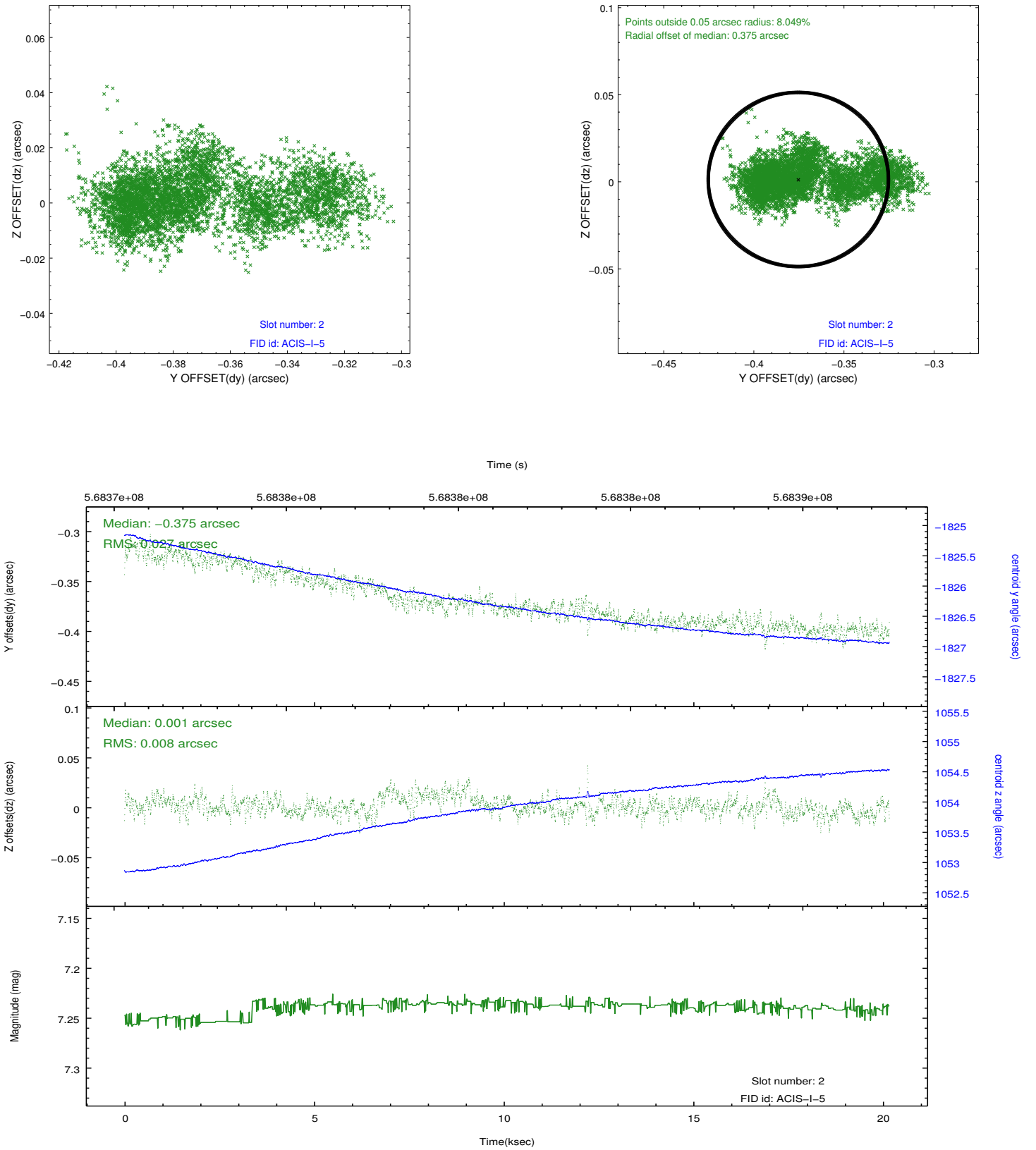
2.5.1 Slot 0



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)	2016.01.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.078649463415

A.2 Comments

Optional chip S2 was dropped.