

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21500 - L2 Version 1
Chandra X-Ray Center

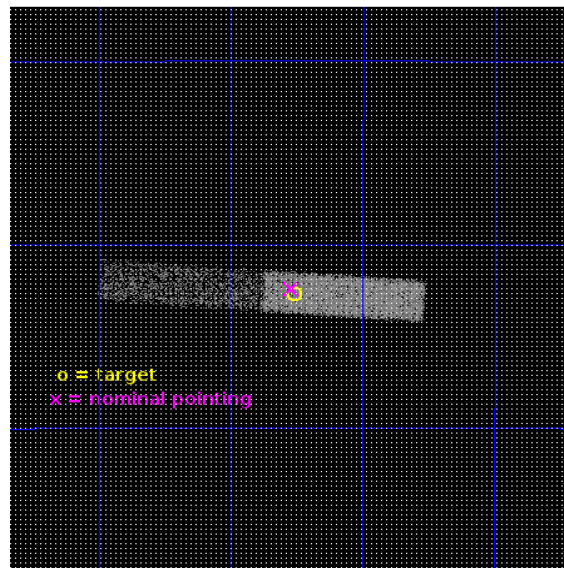
L2 Processing Date : Sep 17 2019

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

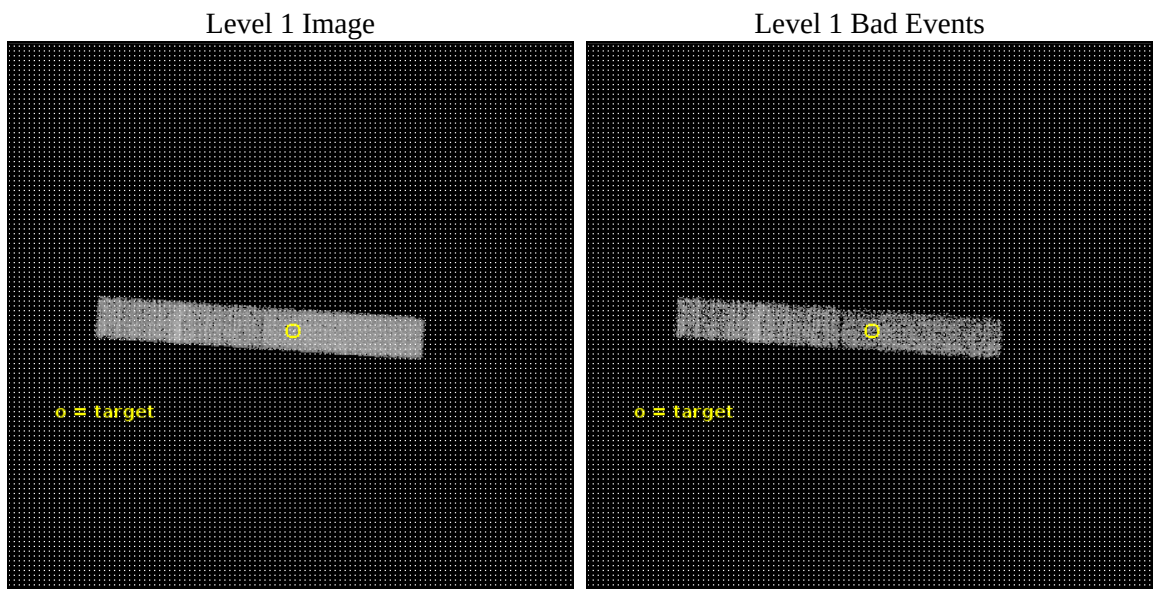
seq_num	703793	Sequence number
obs_id	21500	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC2338-233	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.189583	Observer's specified target RA [deg]
dec_targ	-23.044389	Observer's specified target Dec [deg]
ra_nom	355.19262198283	Nominal RA [deg]
dec_nom	-23.040049213049	Nominal Dec [deg]
roll_nom	3.9025529452509	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10104.299732208	Sum of GTIs [s]
livetime	9663.6378464119	Livetime [s]
ontime6	10104.299732208	Sum of GTIs [s]
ontime7	10104.299732208	Sum of GTIs [s]
l2events	14566	Number of level 2 events



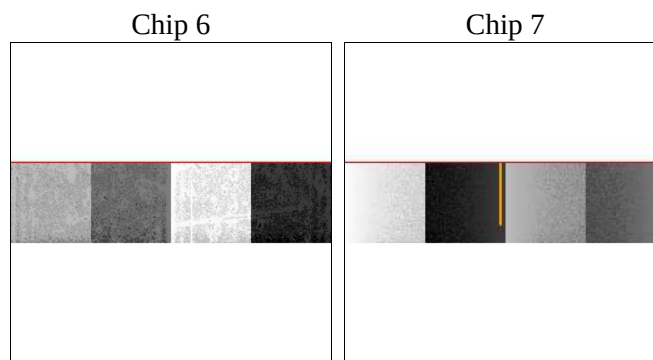
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	10104.299732208	Sum of GTIs [s]
caldbver	4.8.4.1	 	ontime6	10104.299732208	Sum of GTIs [s]
date	2019-09-17T04:24:58	Date and time of file creation	ontime7	10104.299732208	Sum of GTIs [s]
revision	1	Processing version of data	l1events	49438	Number of level 1 events

2.1.4 Events

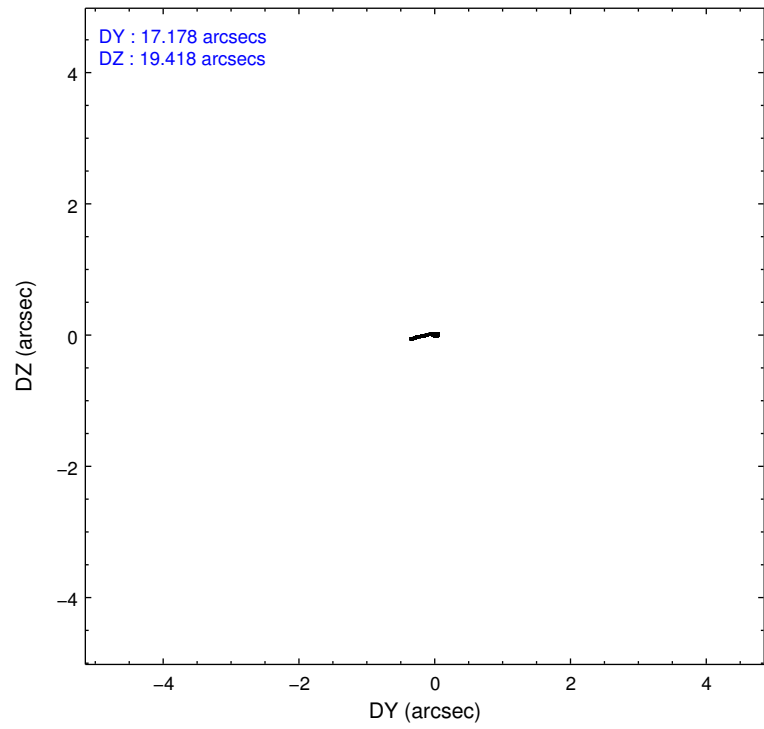
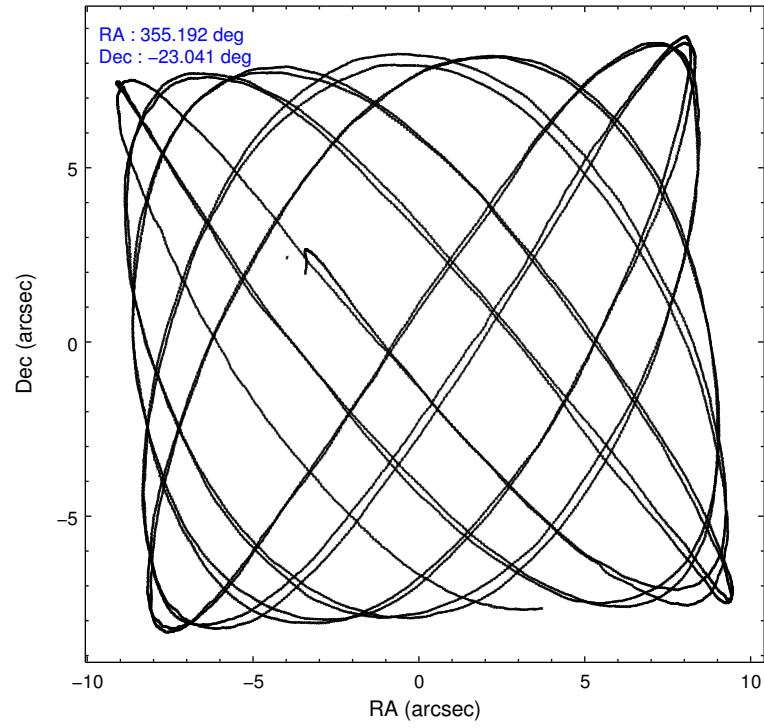
	ccd 6	ccd 7
level 1 events	22751	26687
rejected events	20063	13918
rejected %	88%	52%

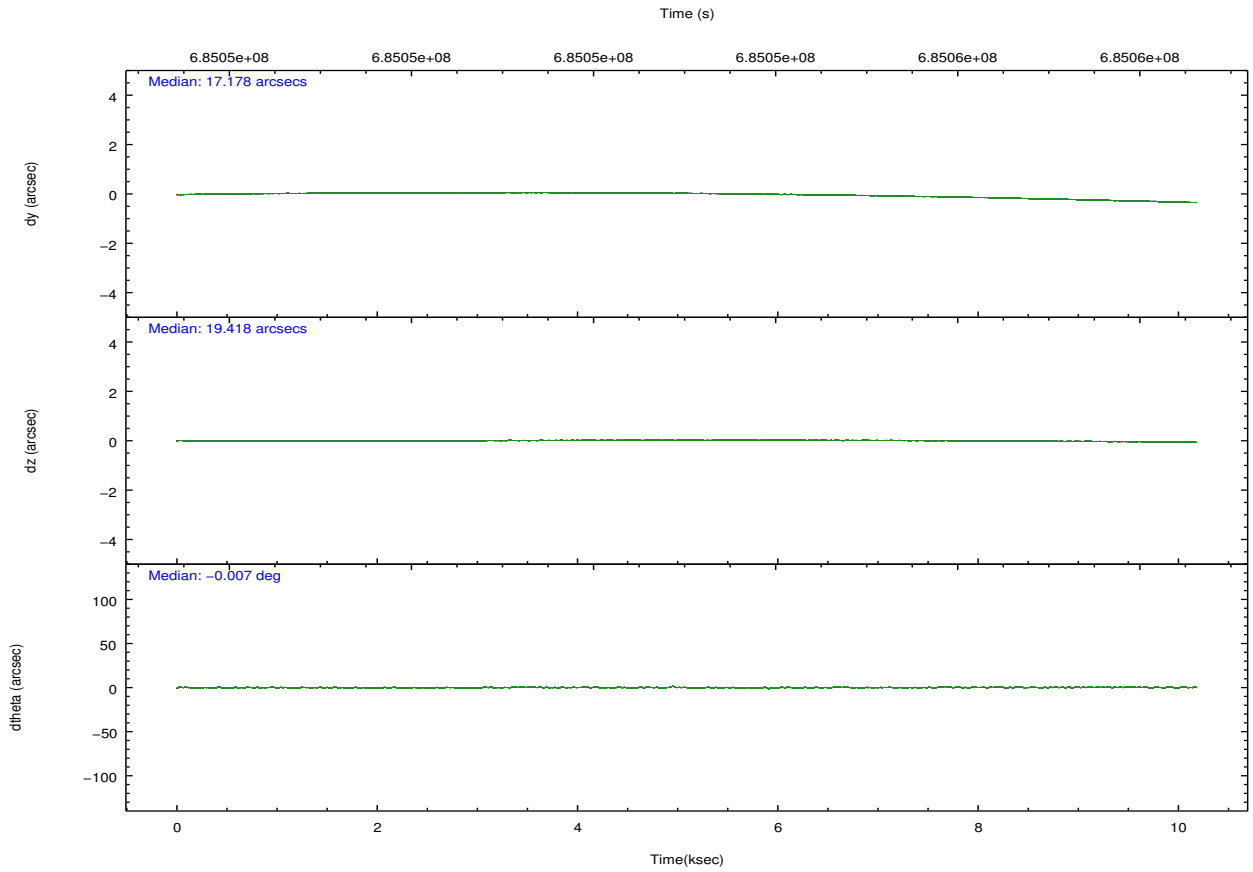
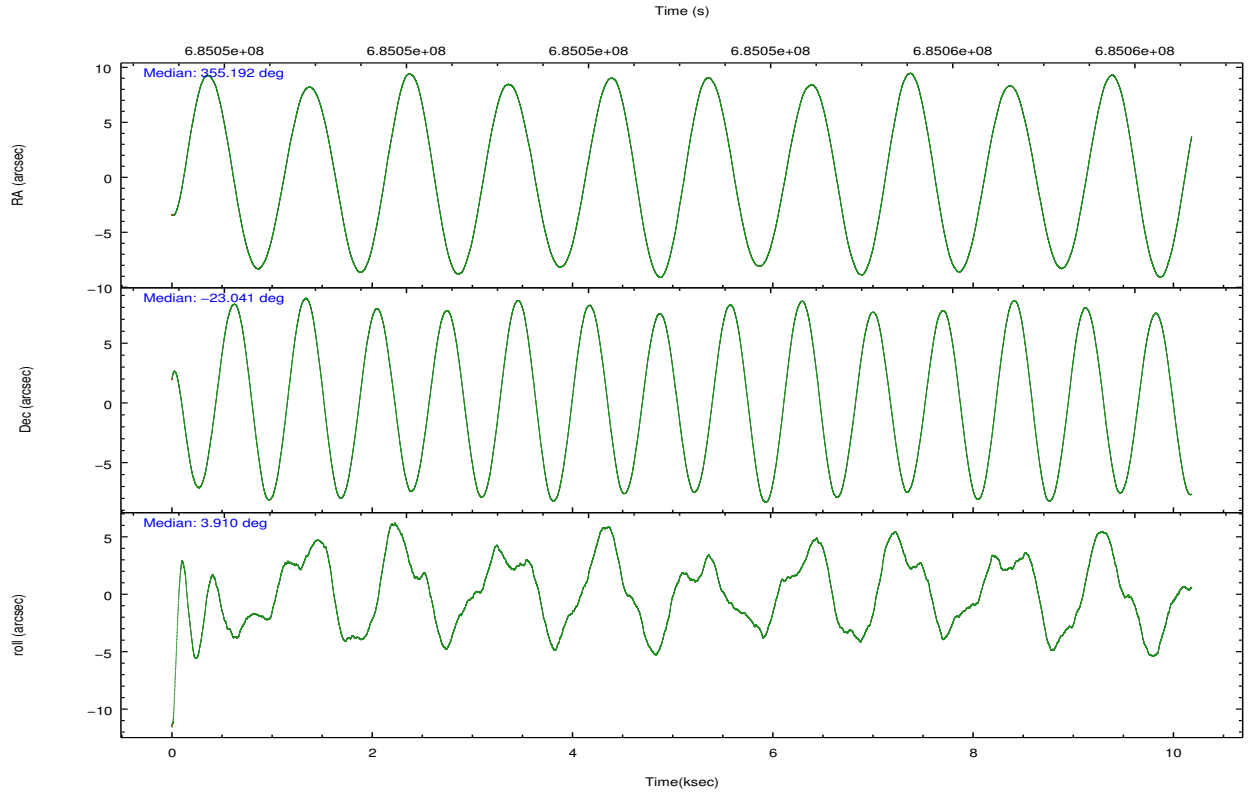
	ccd 6	ccd 7
grade 0 events	791	1290
	3%	4%
grade 1 events	12	38
	0%	0%
grade 2 events	524	2641
	2%	9%
grade 3 events	365	1348
	1%	5%
grade 4 events	444	1302
	1%	4%
grade 5 events	913	2742
	4%	10%
grade 6 events	565	6189
	2%	23%
grade 7 events	19137	11137
	84%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	355.168100	355.1926219828301	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-23.055645	-23.04004921304918	Subarray start row	385	385
[deg] Pointing Roll	3.736337	3.902552945250884	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	685048094.184000	685047308.76454			
Observation start date	2019-09-16T19:07:05	2019-09-16T18:55:08			
[s] Observation end time (MET)	685058094.184000	685058407.97771			
Observation end date	2019-09-16T21:53:45	2019-09-16T22:00:07			
Read mode	TIMED	TIMED			

2.3 Aspect



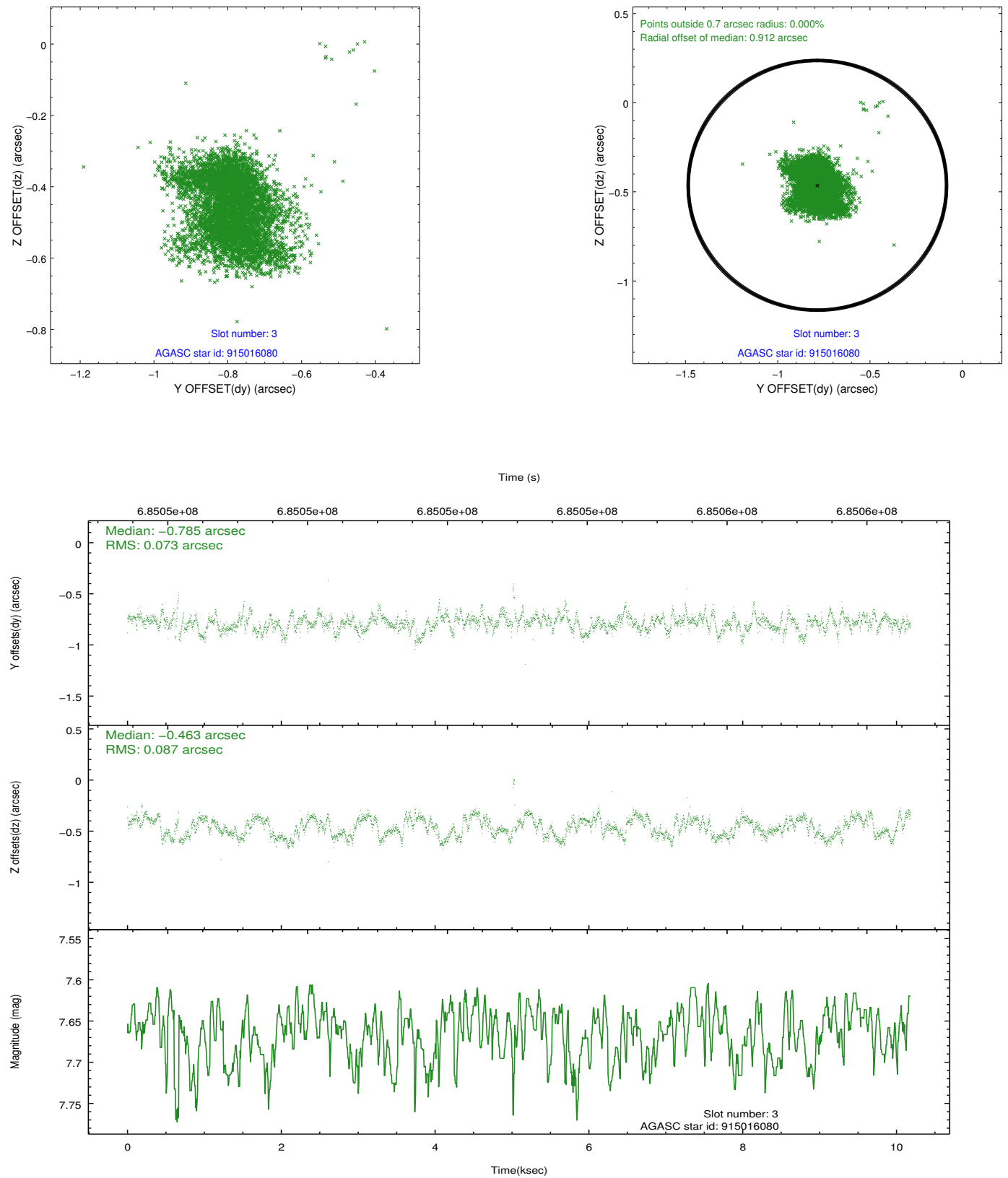


Slot Statistics

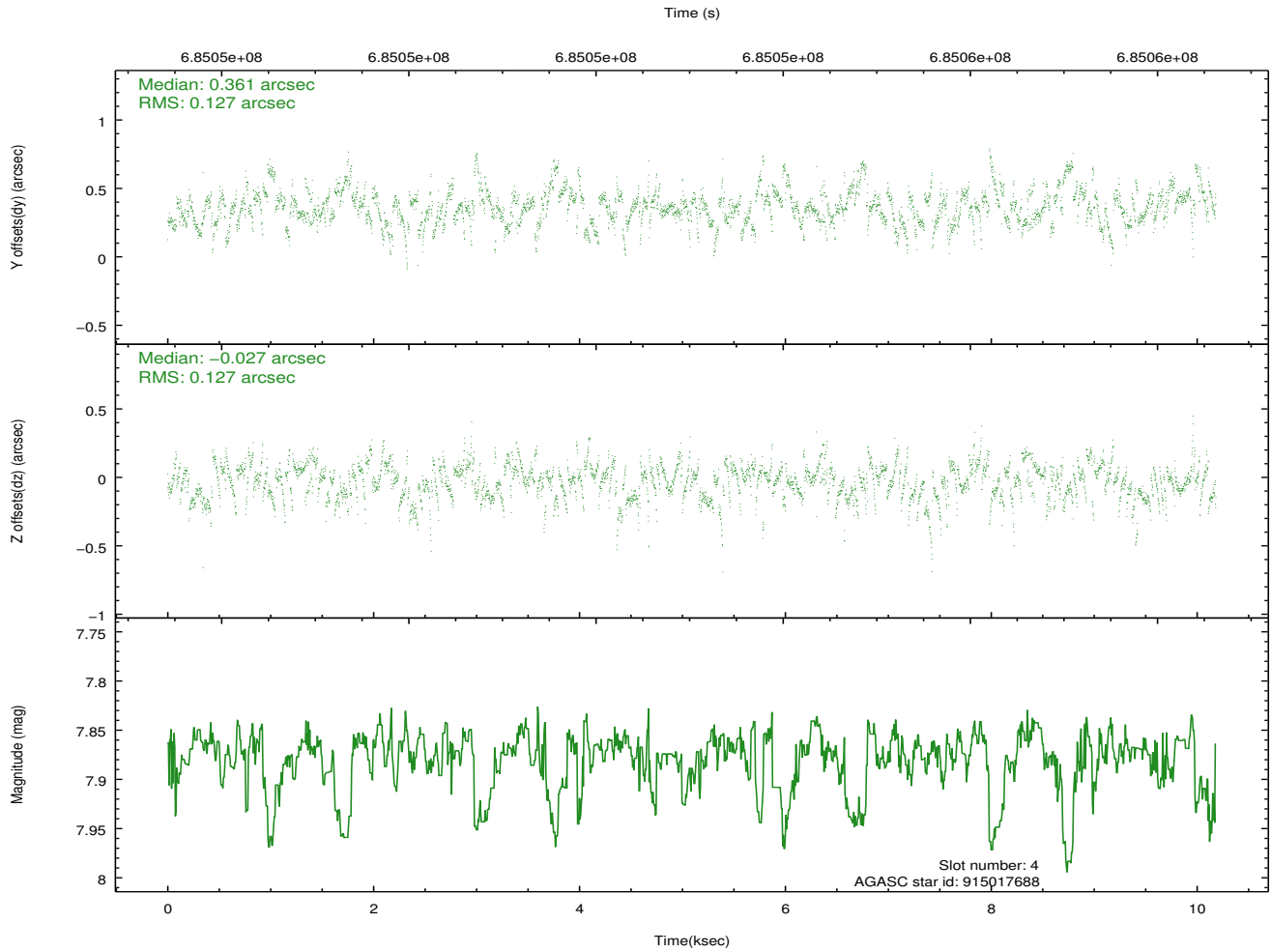
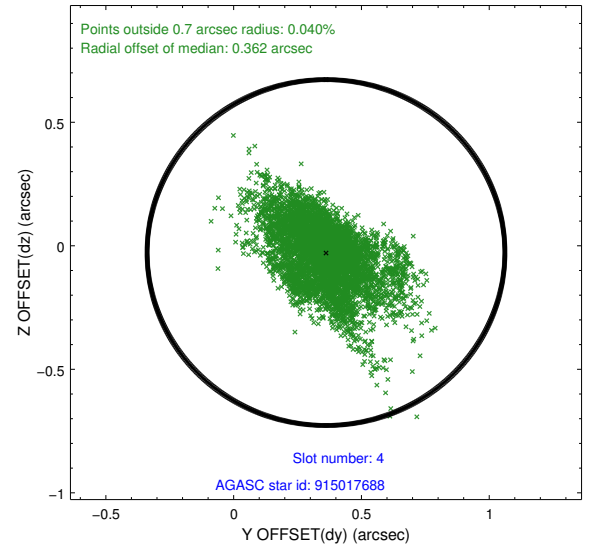
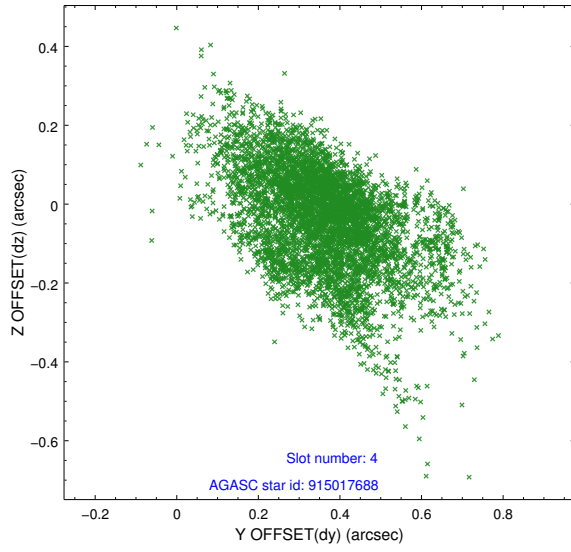
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2484	1.000	-0.299	-0.236	0.008	0.013	0.000000	0.000000	-770.37	-1741
1	FID		ACIS-S-4	7.16	2484	1.000	0.809	0.208	0.007	0.012	0.000000	0.000000	2143.69	167
2	FID		ACIS-S-5	7.11	2484	1.000	-0.540	0.037	0.007	0.012	0.000000	0.000000	-1822.88	161
3	GUIDE	used	915016080	7.66	4968	1.000	-0.785	-0.463	0.121	0.188	355.886045	-22.902307	2409.56	389
4	GUIDE	used	915017688	7.88	4966	1.000	0.361	-0.027	0.183	0.326	355.794203	-23.675590	1916.30	-2365
5	GUIDE	used	915018736	8.16	4960	1.000	0.070	0.022	0.103	0.181	355.432993	-23.610609	742.68	-2050
6	GUIDE	used	915021128	8.40	4959	1.000	0.338	0.227	0.111	0.178	354.710277	-23.678236	-1651.12	-2138
7	GUIDE	used	915023896	7.55	4961	1.000	0.026	0.258	0.073	0.118	354.586588	-23.555417	-2031.61	-1672

2.4 Star Slots

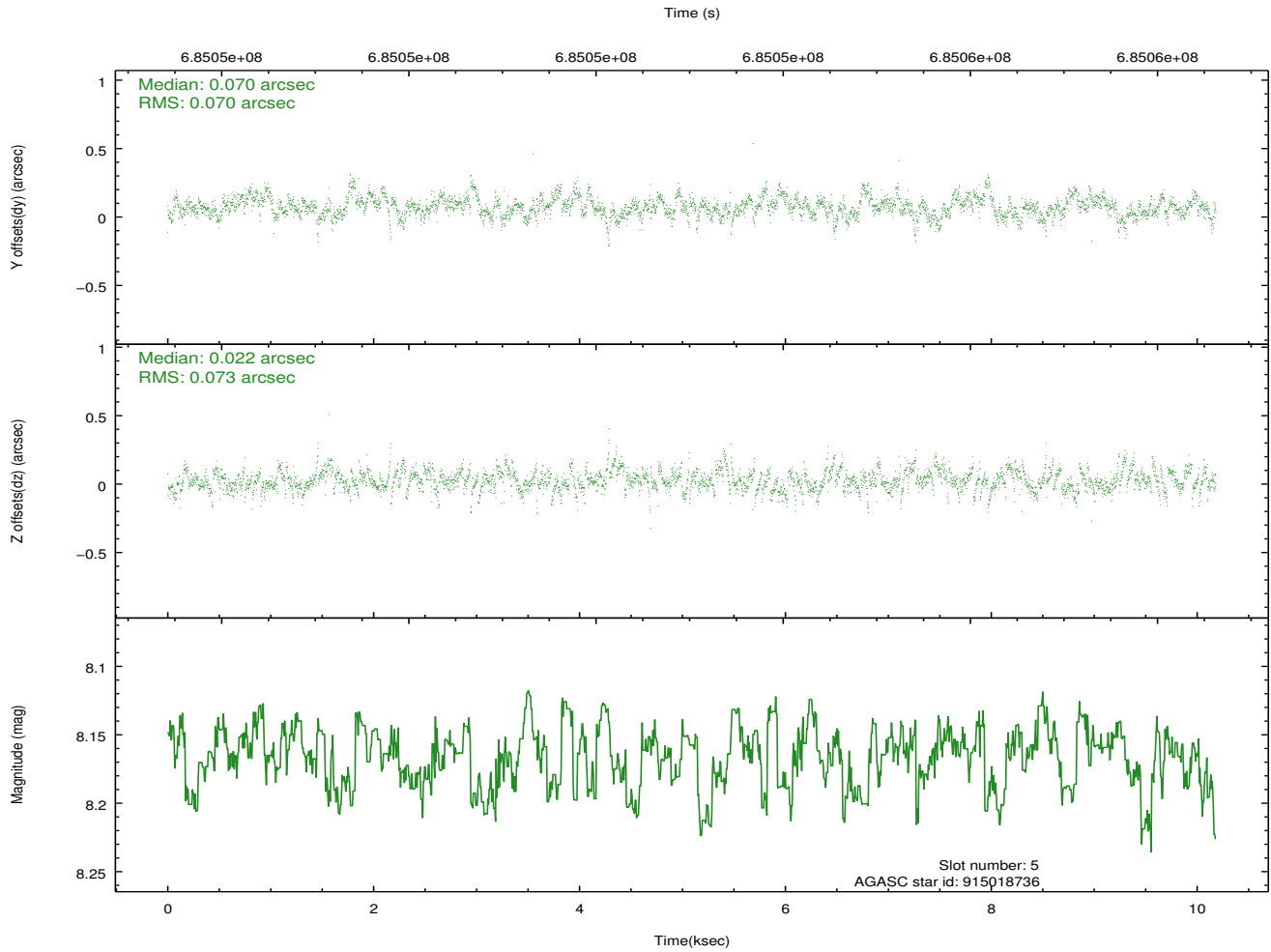
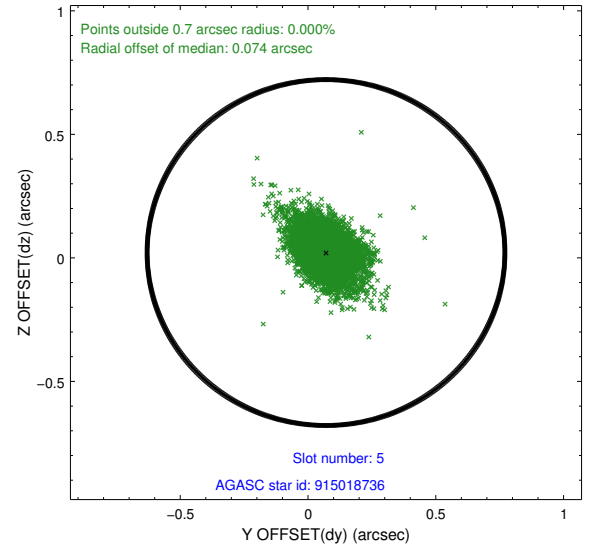
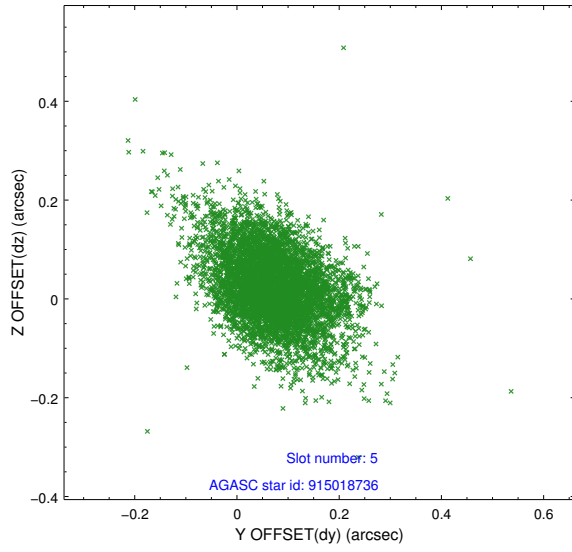
2.4.1 Slot 3



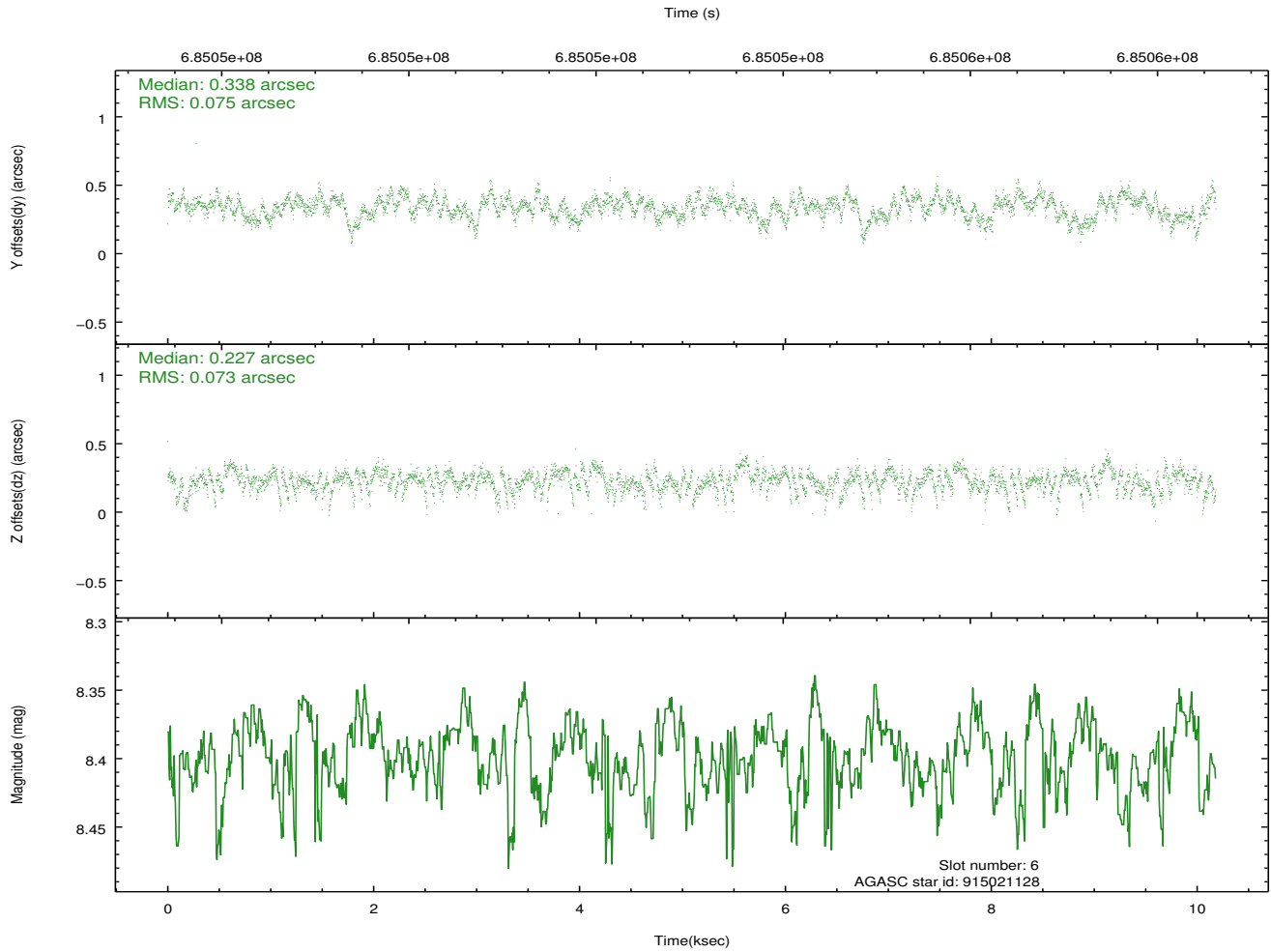
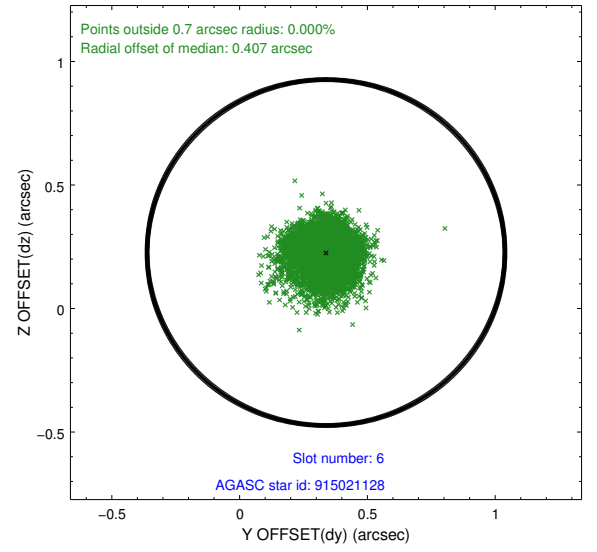
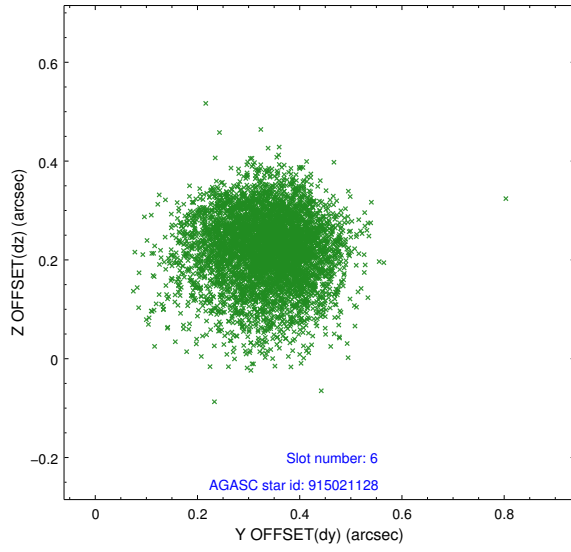
2.4.2 Slot 4



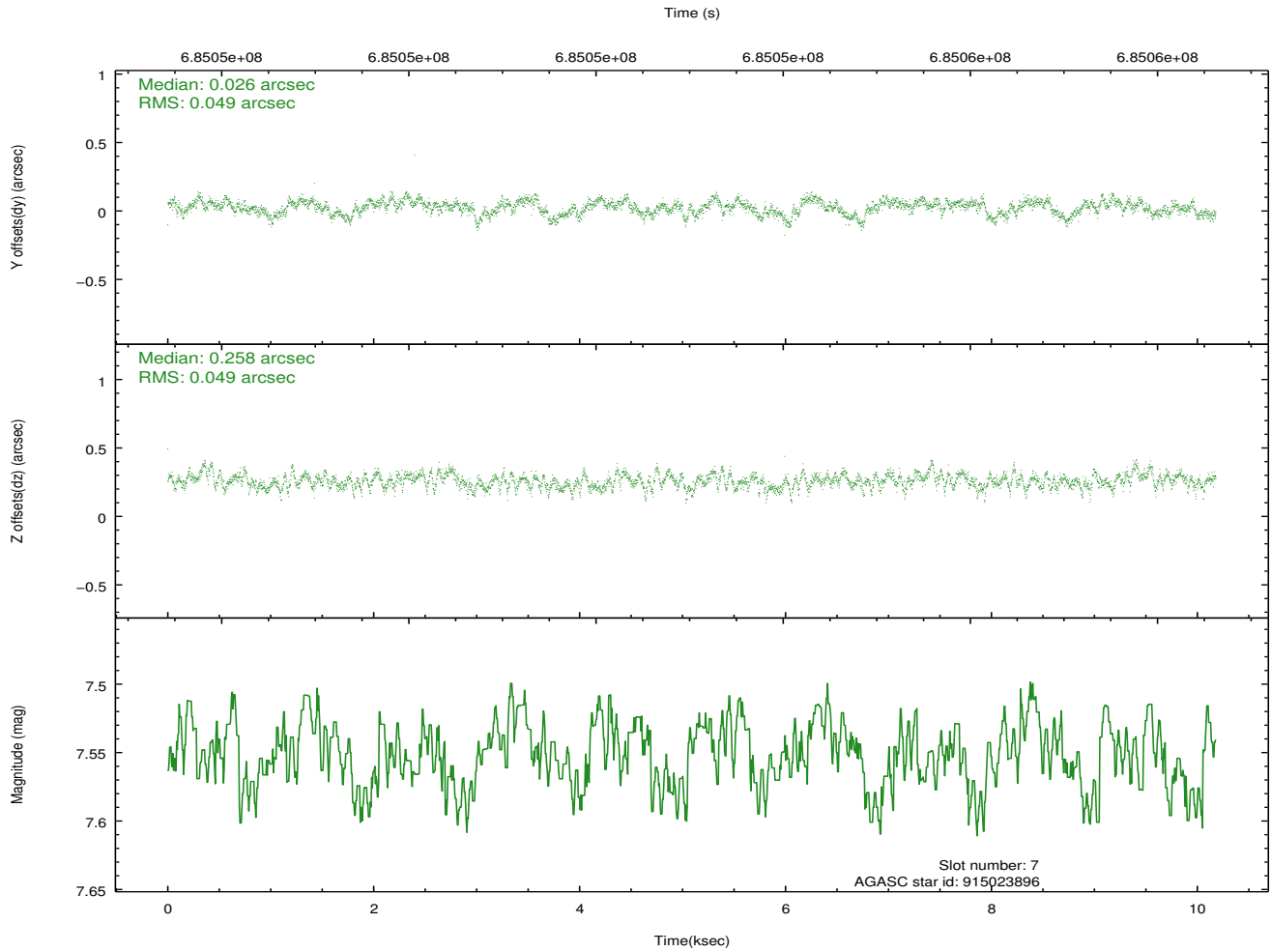
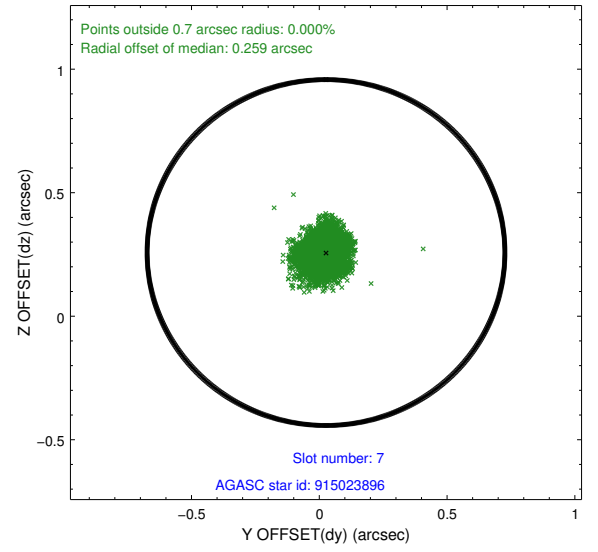
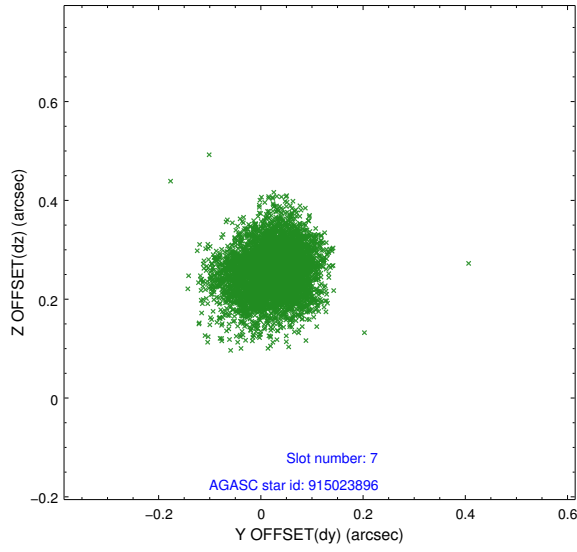
2.4.3 Slot 5



2.4.4 Slot 6

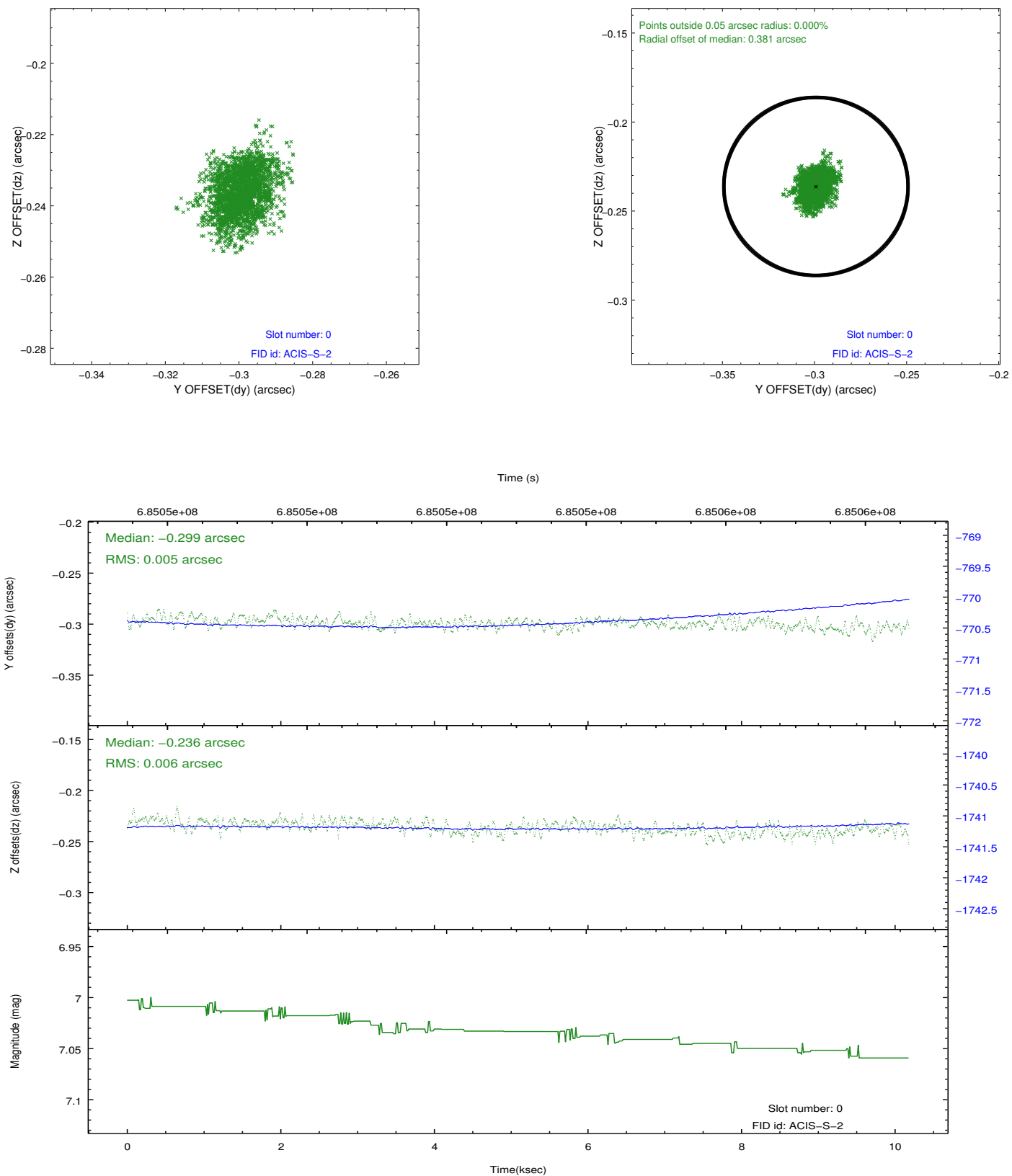


2.4.5 Slot 7

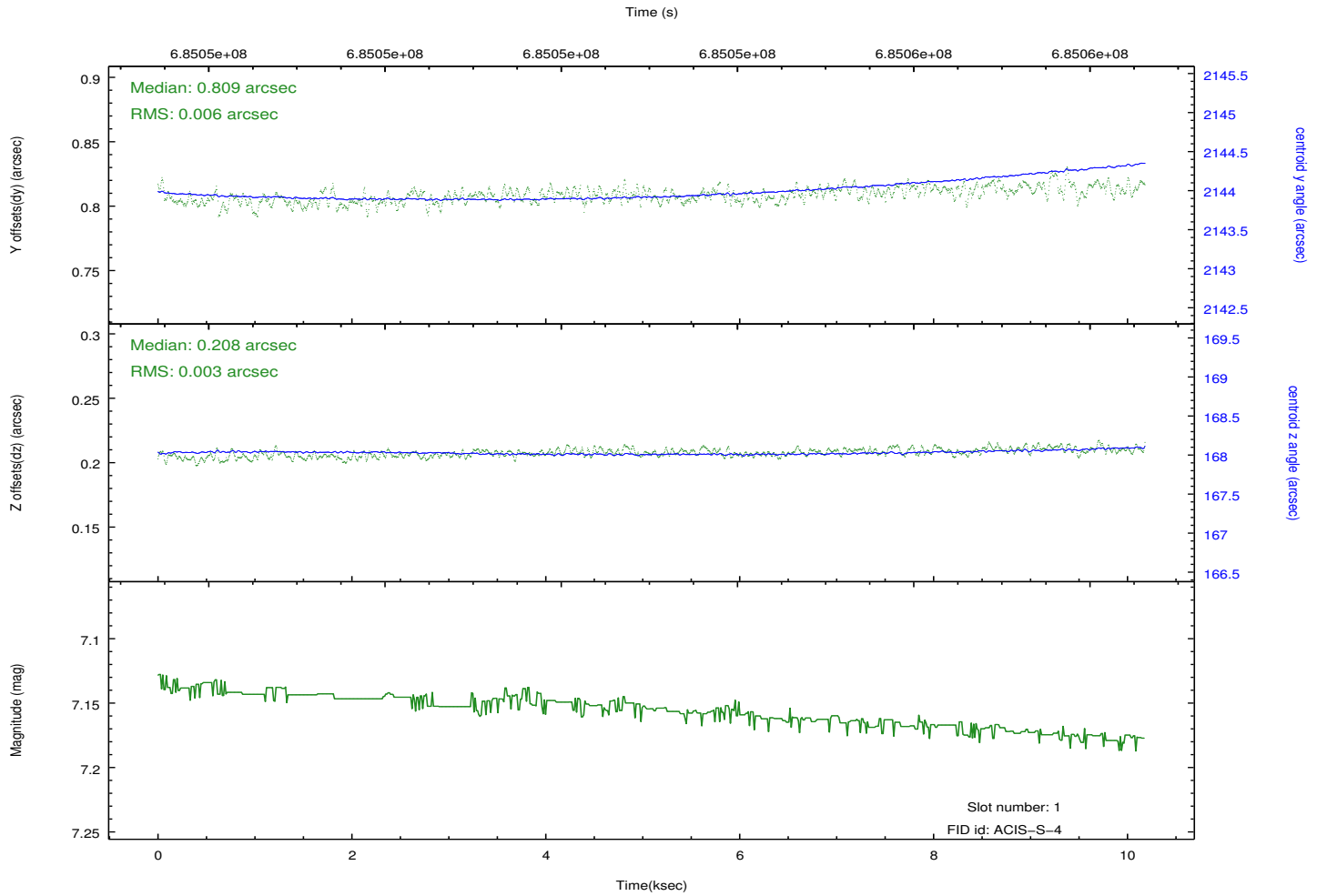
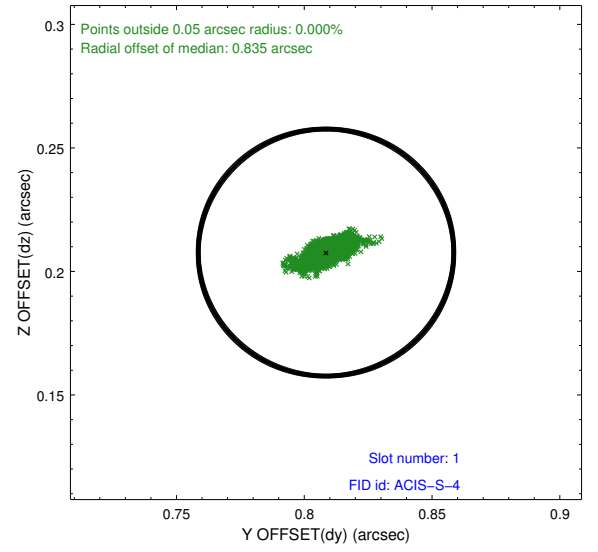
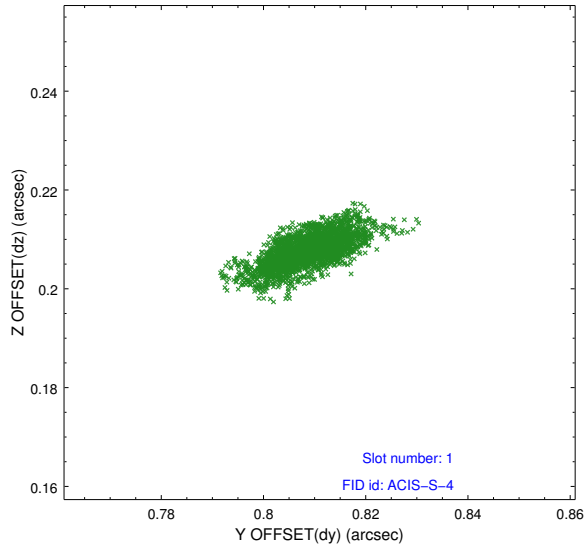


2.5 FID Slots

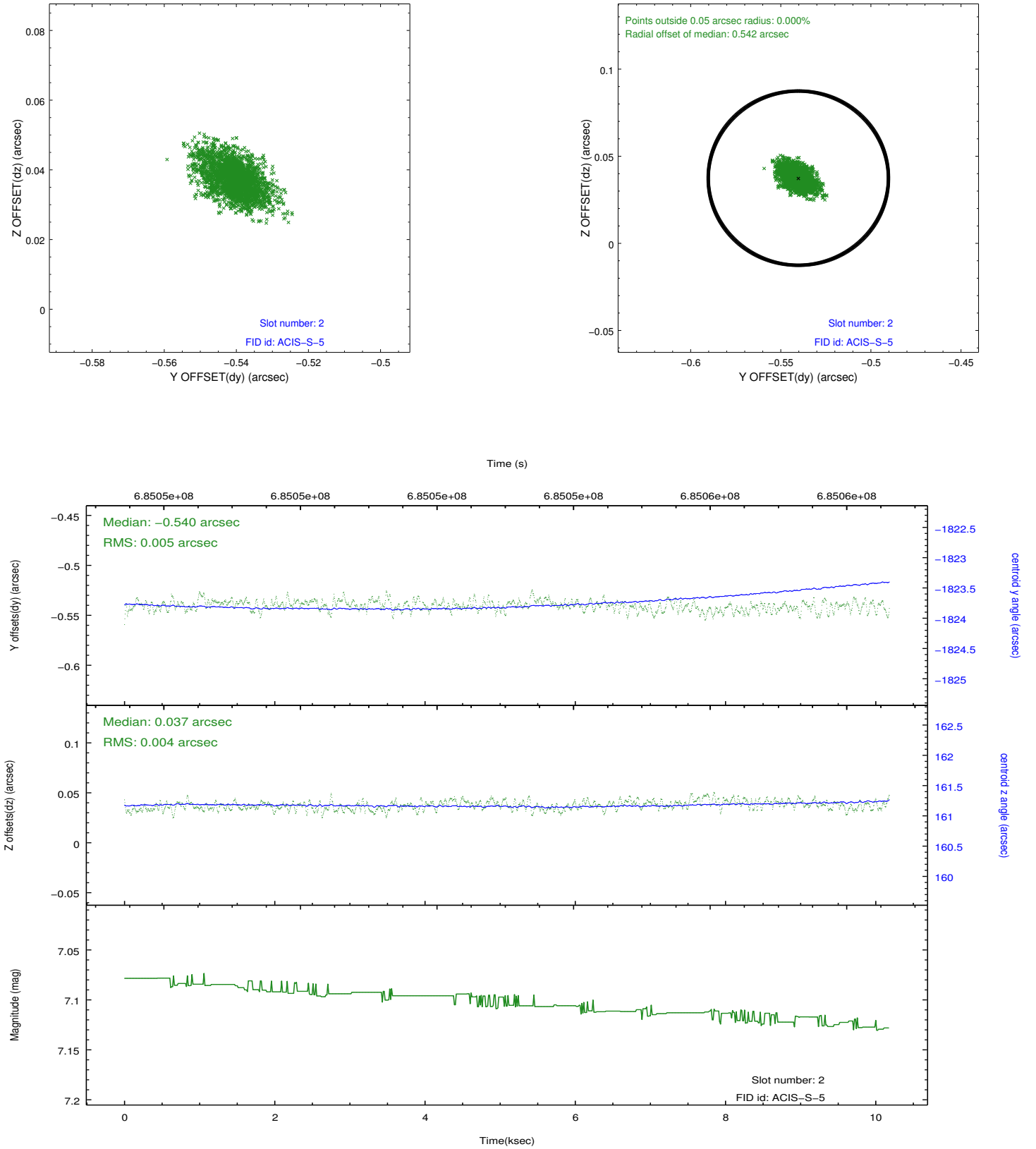
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.104299732208

A.2 Comments