

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20091 - L2 Version 1
Chandra X-Ray Center

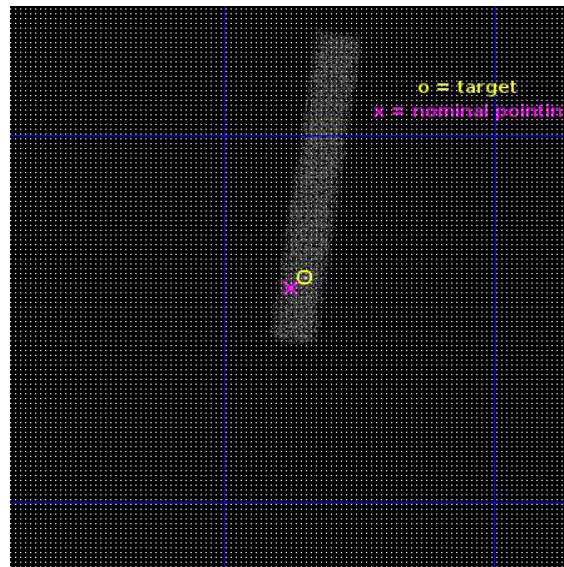
L2 Processing Date : Nov 2 2017

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1 Front

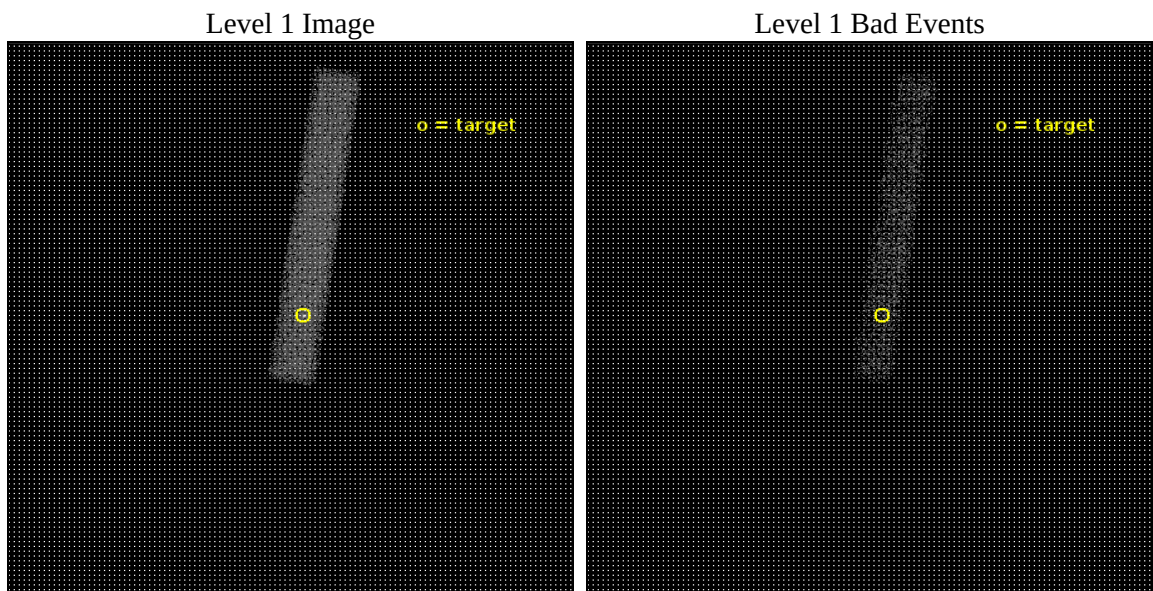
seq_num	502975	Sequence number
obs_id	20091	Observation id
title	The timing properties of the transient magnetar XTE J1810-197 during quiescence	Proposal title
observer	Fabio Pintore	Principal investigator
object	XTE J1810-197	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.462917	Observer's specified target RA [deg]
dec_targ	-19.731056	Observer's specified target Dec [deg]
ra_nom	272.46910662625	Nominal RA [deg]
dec_nom	-19.735696861666	Nominal Dec [deg]
roll_nom	278.1587173878	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20331.598788023	Sum of GTIs [s]
livetime	18439.686910959	Livetime [s]
ontime7	20331.598788023	Sum of GTIs [s]
l2events	14208	Number of level 2 events



2 OBI

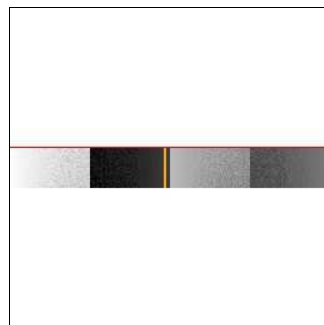
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20262.155000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20331.598788023	Sum of GTIs [s]
caldsver	4.7.6	 	ontime7	20331.598788023	Sum of GTIs [s]
date	2017-11-02T19:56:02	Date and time of file creation	l1events	26795	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

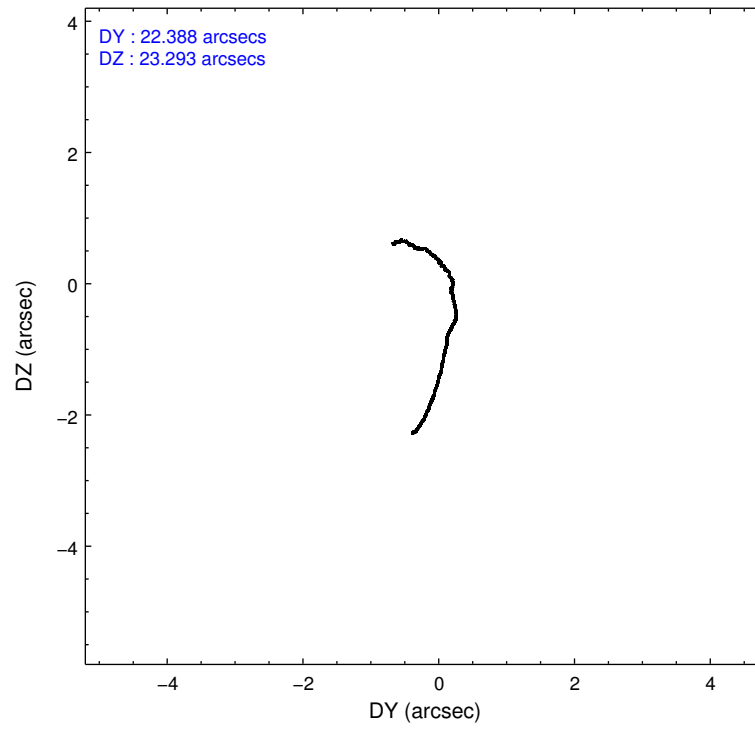
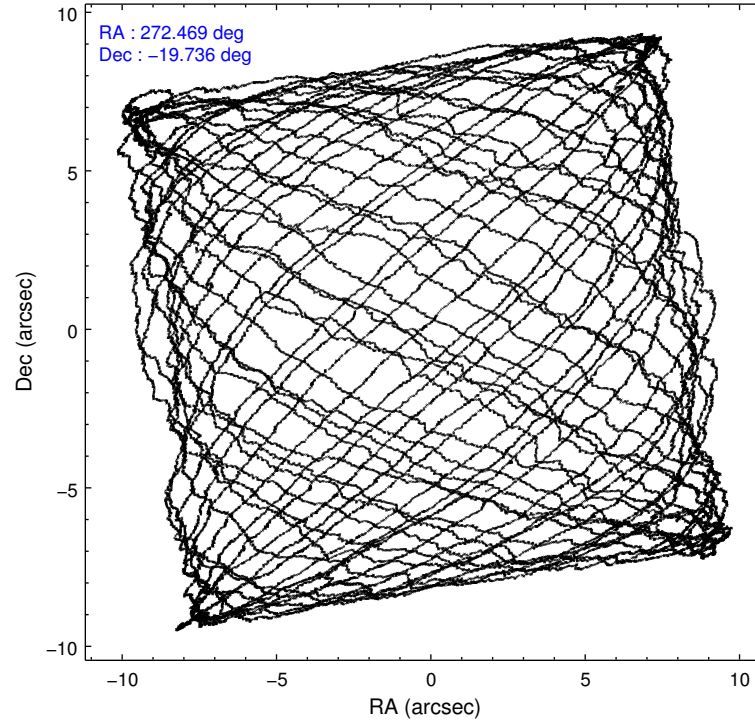
	ccd 7
level 1 events	26795
rejected events	12085
rejected %	45%

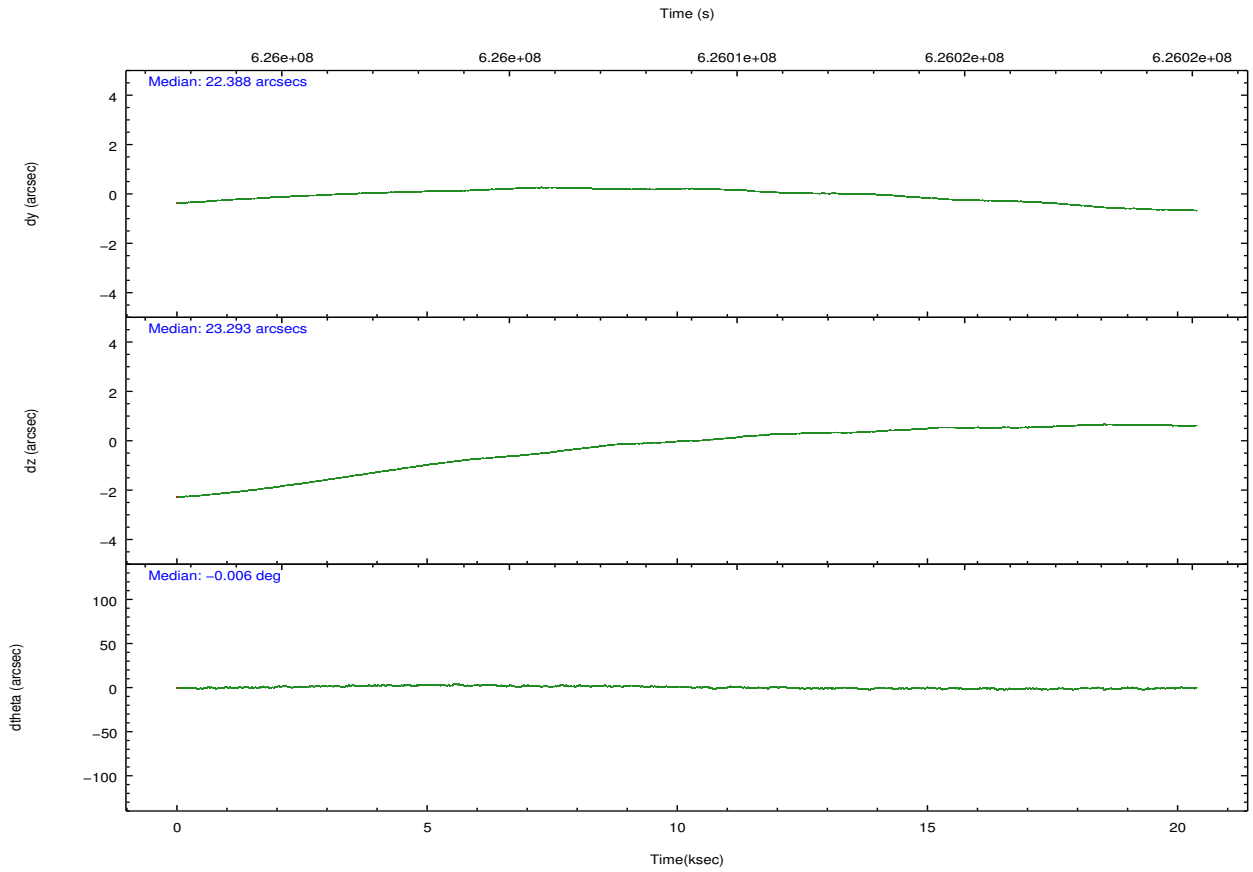
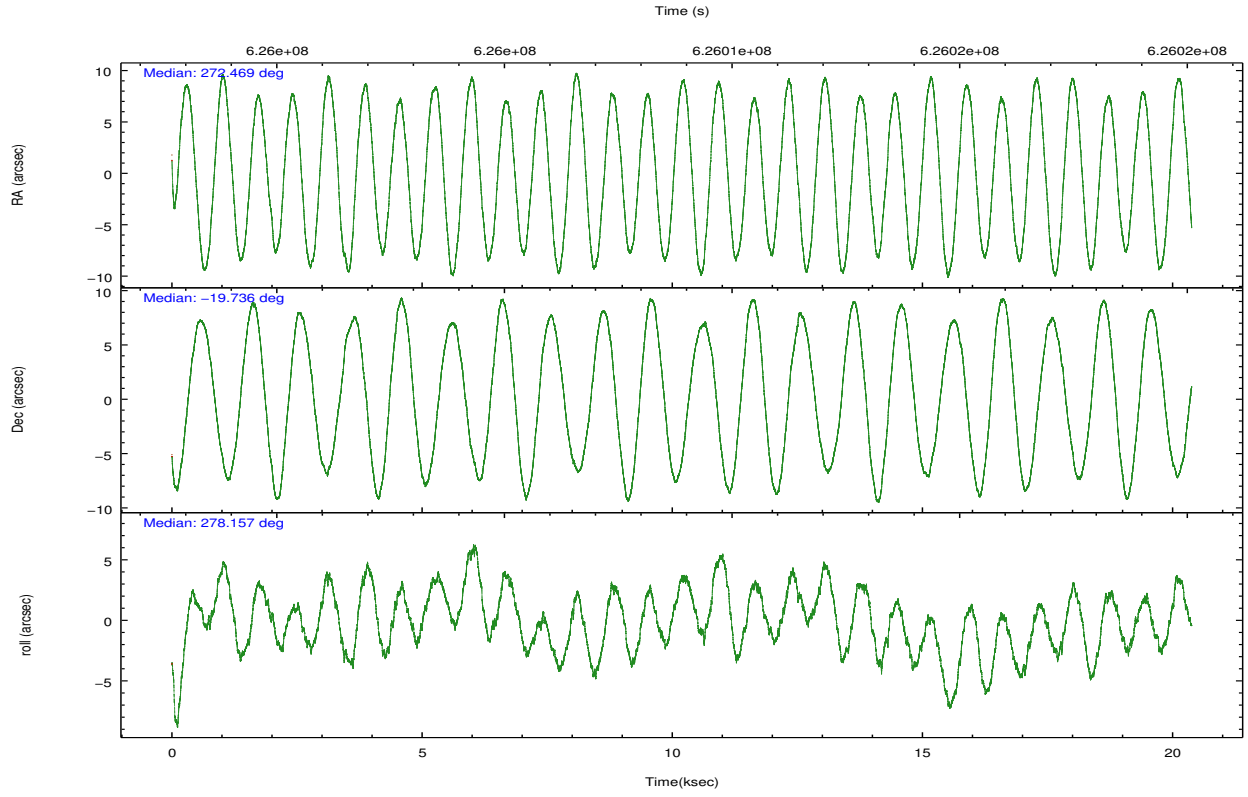
	ccd 7
grade 0 events	1982
	7%
grade 1 events	46
	0%
grade 2 events	3111
	11%
grade 3 events	1839
	6%
grade 4 events	1877
	7%
grade 5 events	2461
	9%
grade 6 events	5901
	22%
grade 7 events	9578
	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	272.450770	272.4691066262513	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-19.714322	-19.7356968616659	Subarray start row	449	449
[deg] Pointing Roll	277.995903	278.1587173877956	Subarray row count	128	128
[s] Window start time (MET)	625881669.184000	625881669.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	626486409.184000	626486409.184000	[s] Primary exposure time	0.000000	0.4
[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)	625998816.184000	625997501.56188			
Observation start date	2017-11-02T08:32:27	2017-11-02T08:11:41			
[s] Observation end time (MET)	626019079.184000	626020109.98821			
Observation end date	2017-11-02T14:10:10	2017-11-02T14:28:29			
Read mode	TIMED	TIMED			

2.3 Aspect



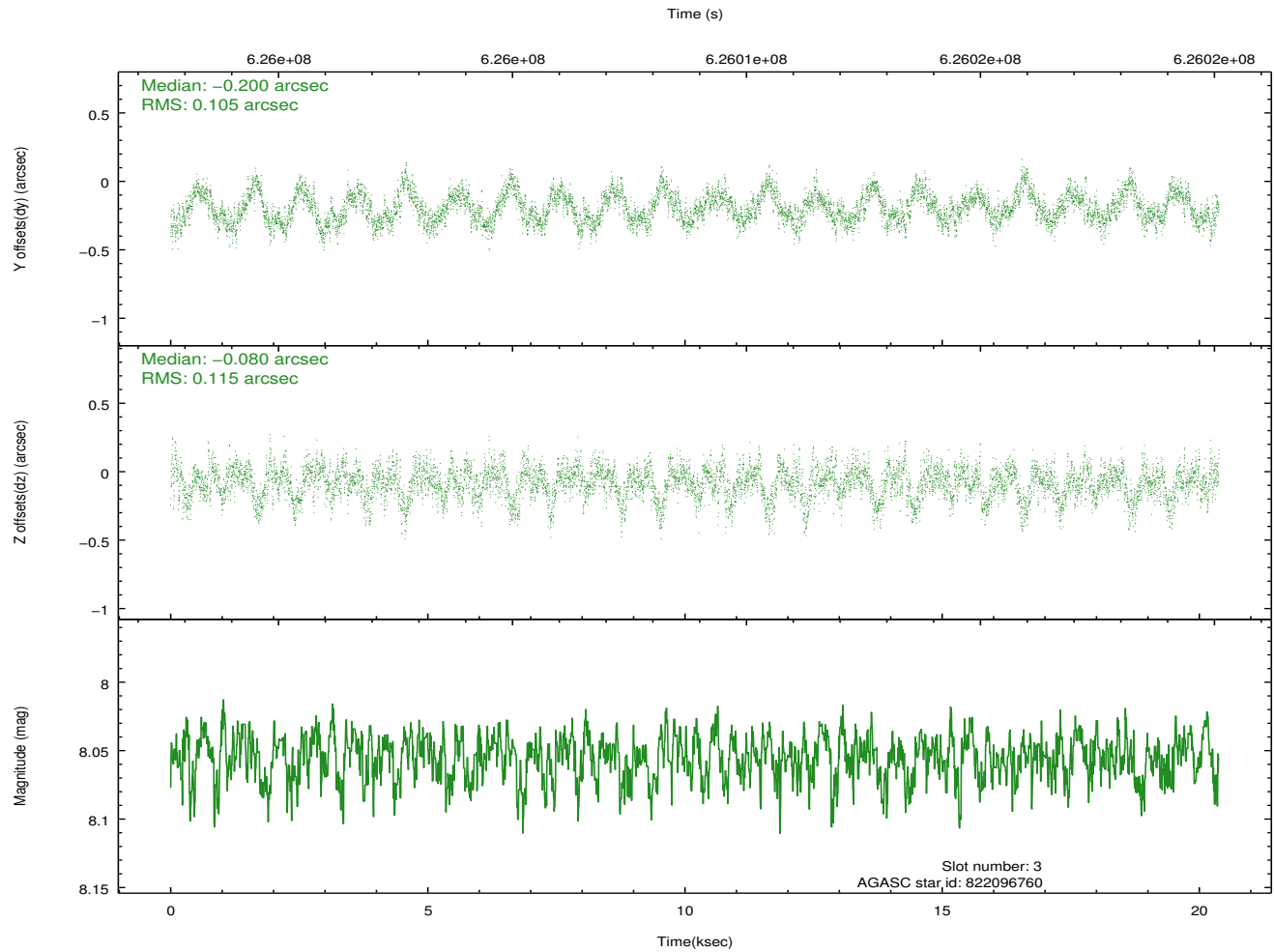
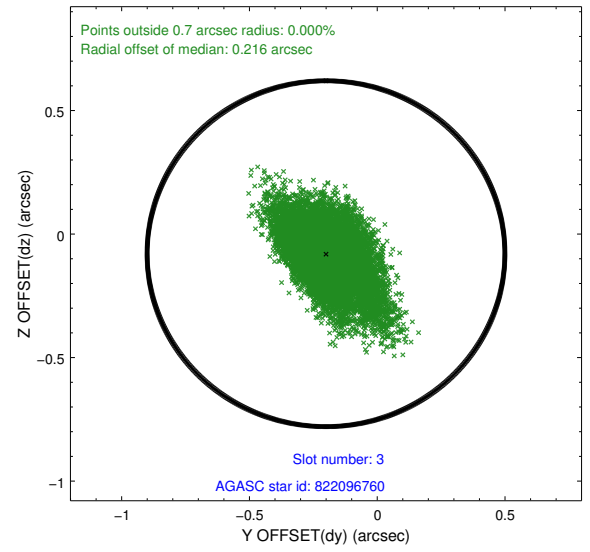
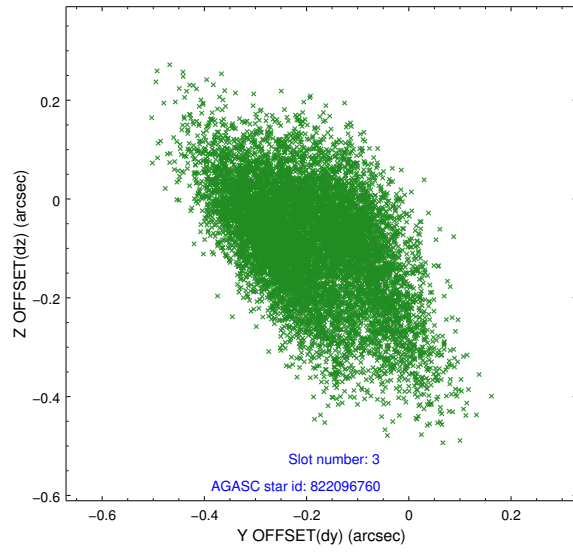


Slot Statistics

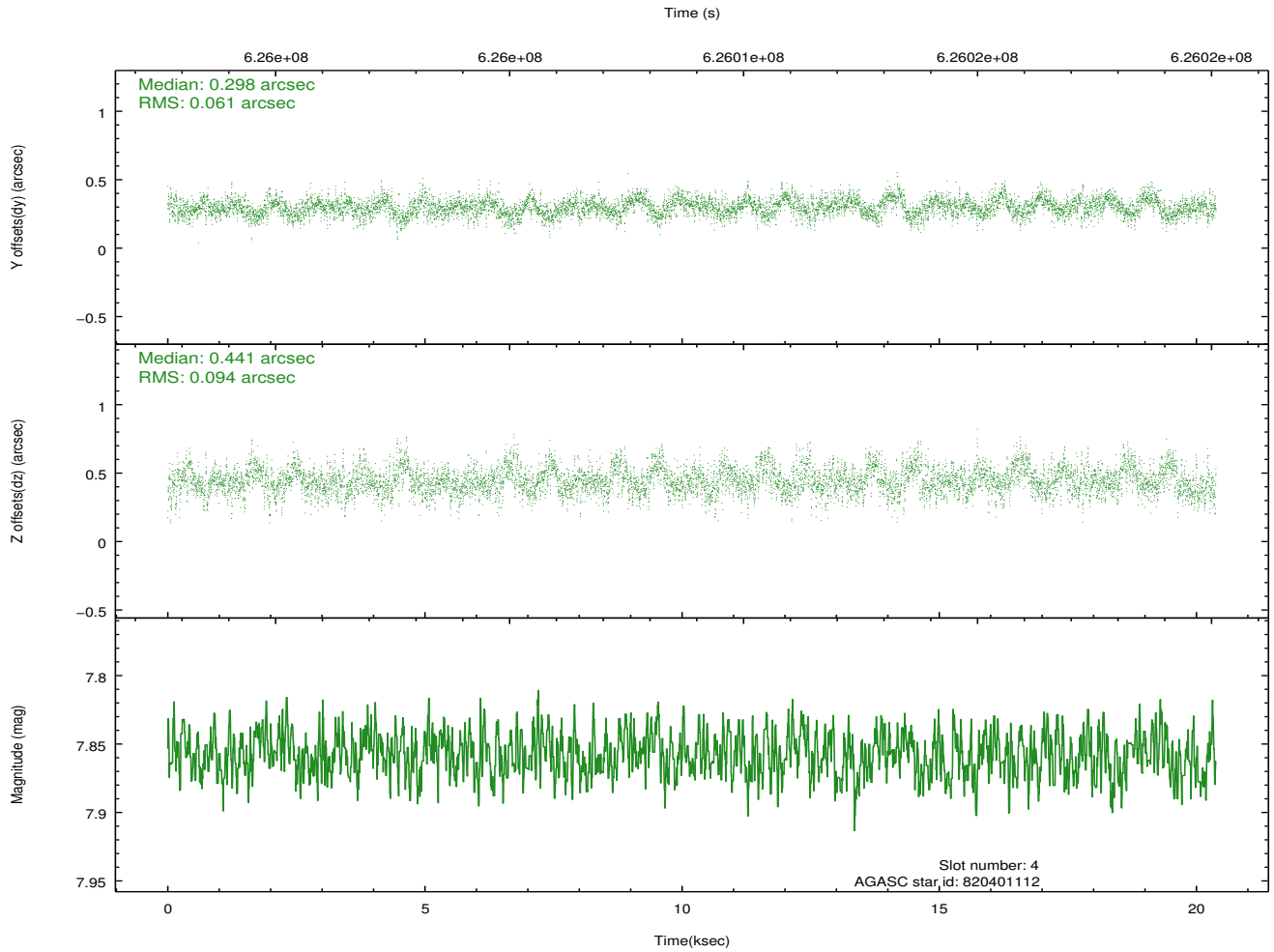
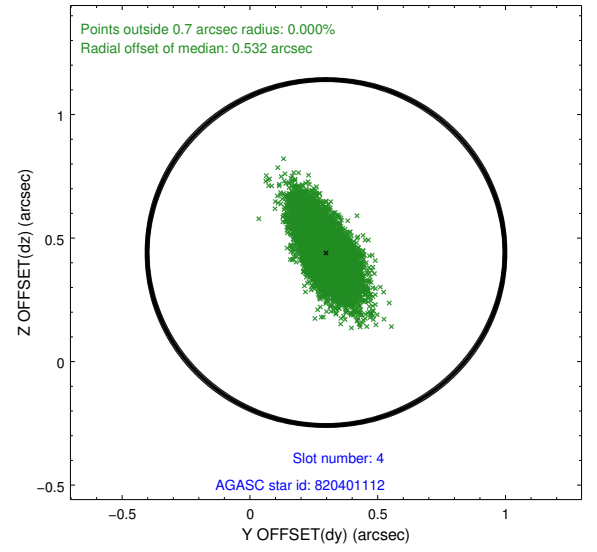
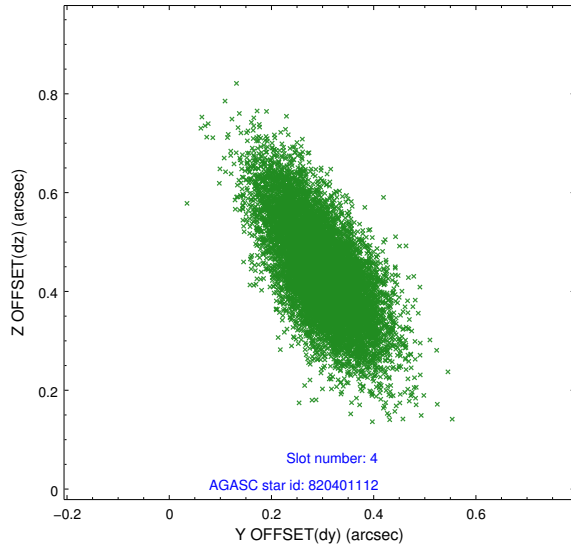
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	4972	-0.236	-0.151	0.031	0.045	0.000000	0.000000	-775.67	-1744.69
1	FID		ACIS-S-4	7.19	4972	0.539	0.154	0.014	0.029	0.000000	0.000000	2138.25	163.98
2	FID		ACIS-S-5	7.21	4971	-0.337	0.004	0.034	0.056	0.000000	0.000000	-1828.43	157.60
3	GUIDE	used	822096760	8.05	9938	-0.200	-0.080	0.159	0.280	272.830526	-19.438690	-801.95	1414.53
4	GUIDE	used	820401112	7.86	9943	0.298	0.441	0.113	0.209	271.884761	-19.293988	-1762.45	-1693.83
5	GUIDE	used	822102416	7.48	9942	0.140	-0.001	0.128	0.224	272.173216	-20.087156	1199.58	-1116.10
6	GUIDE	used	822085152	8.97	9934	-0.152	0.032	0.176	0.305	272.974056	-19.057083	-2092.67	2092.12
7	GUIDE	used	822103320	9.04	9938	-0.091	-0.380	0.165	0.275	273.198291	-20.140480	1876.12	2287.90

2.4 Star Slots

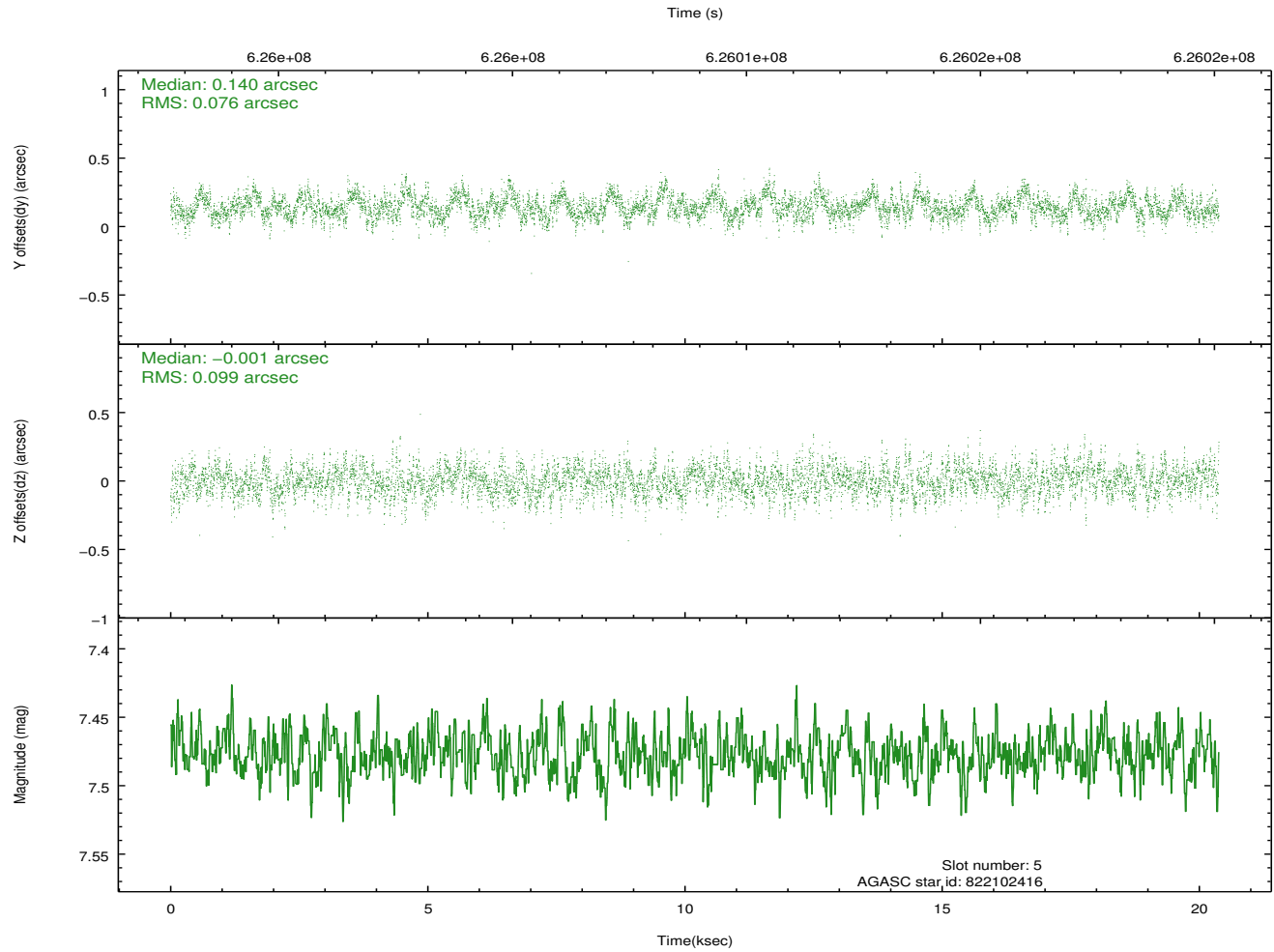
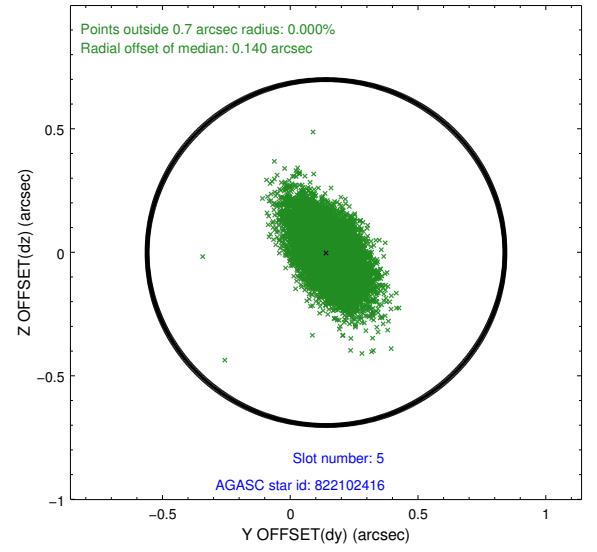
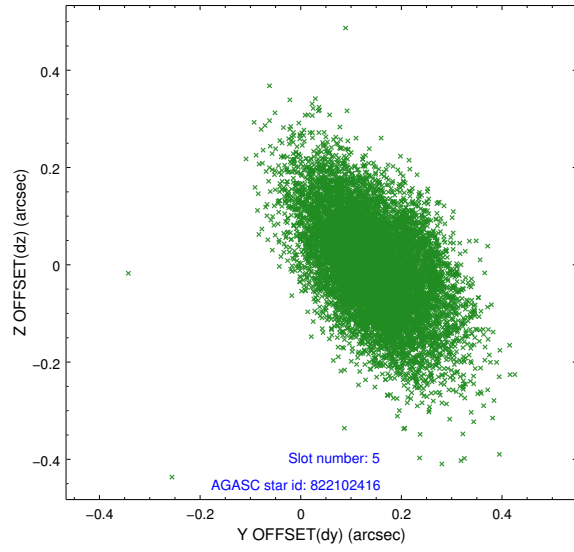
2.4.1 Slot 3



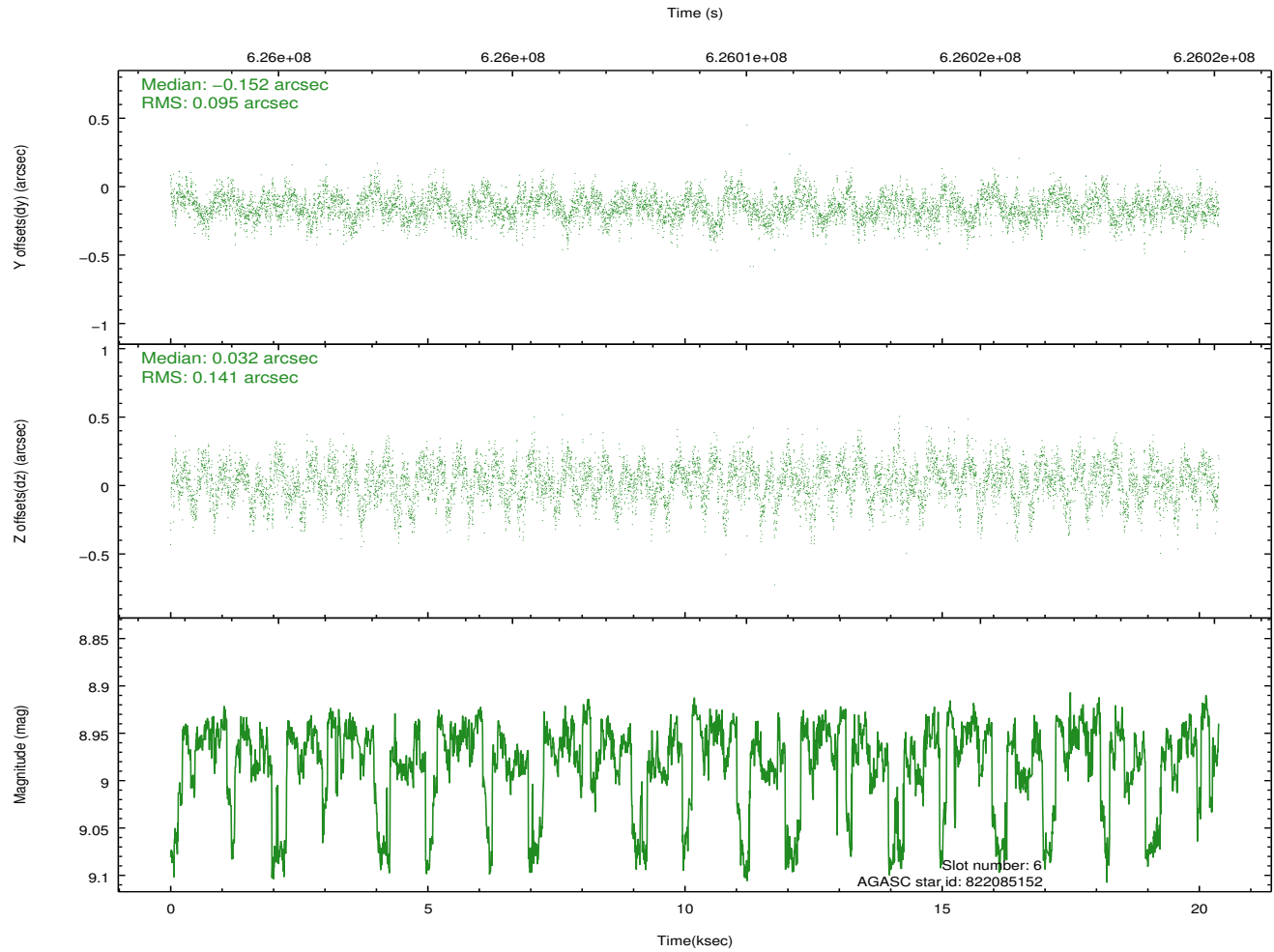
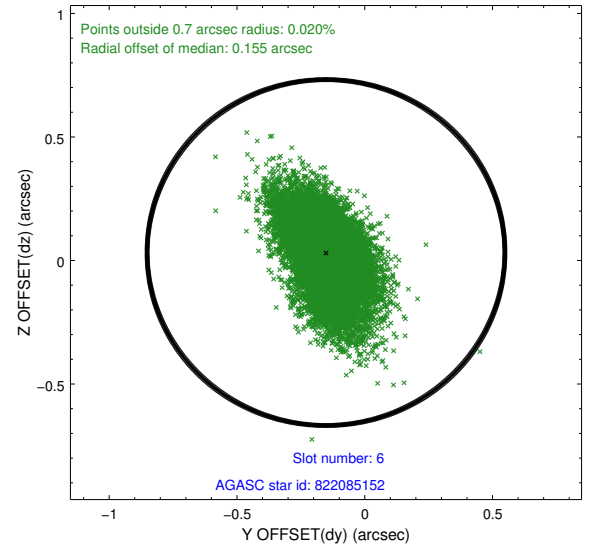
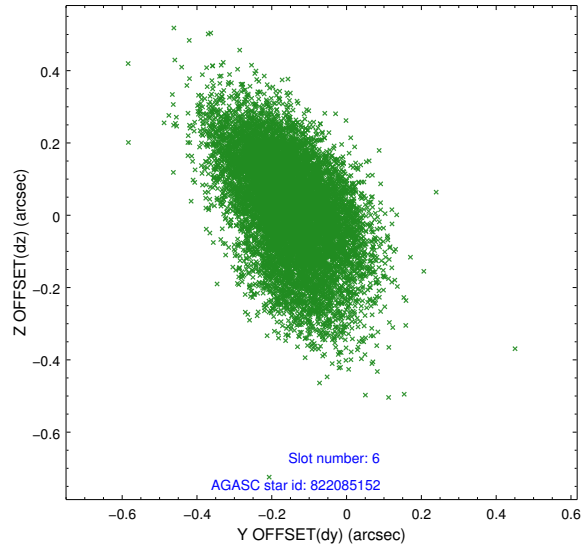
2.4.2 Slot 4



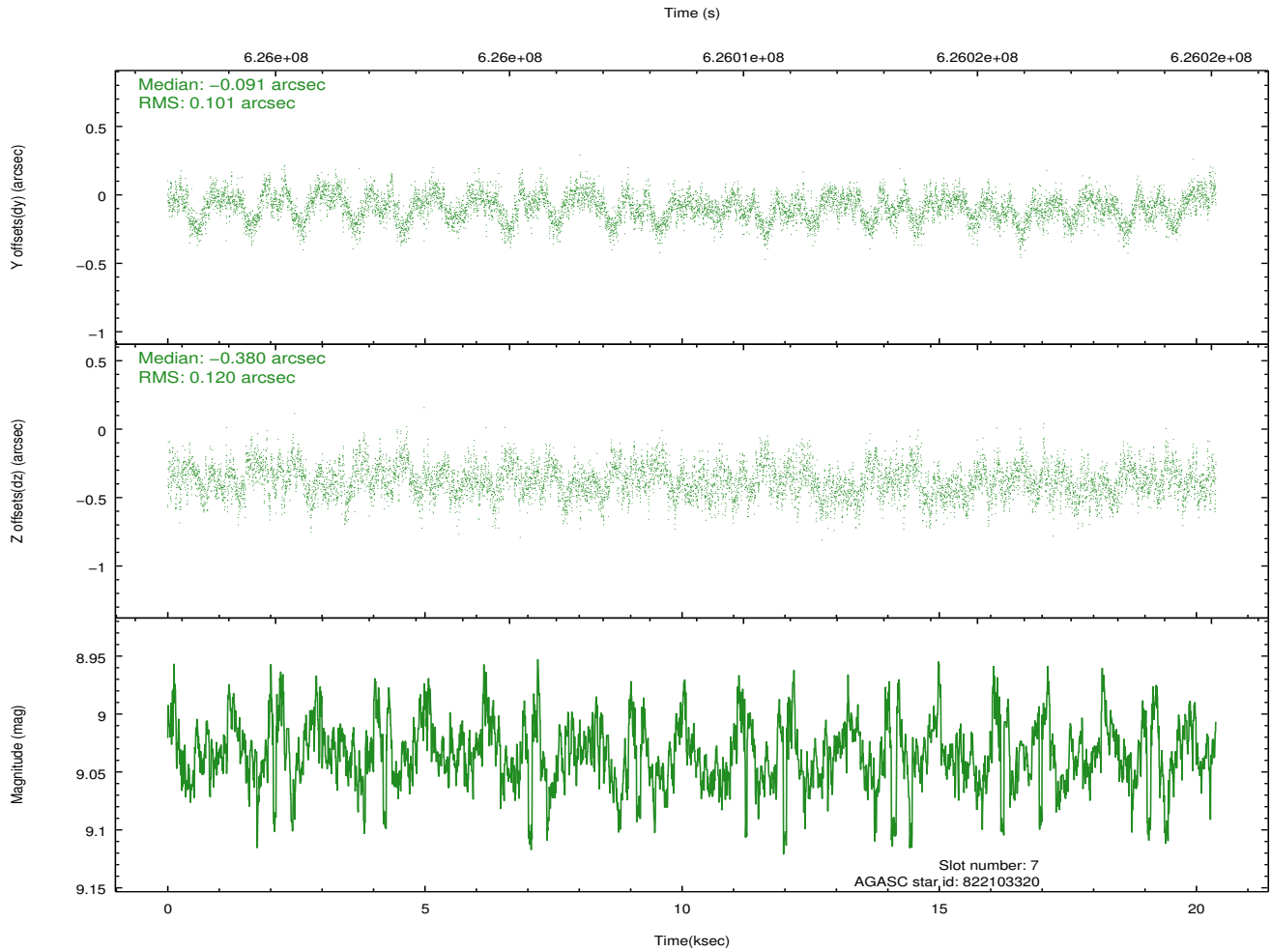
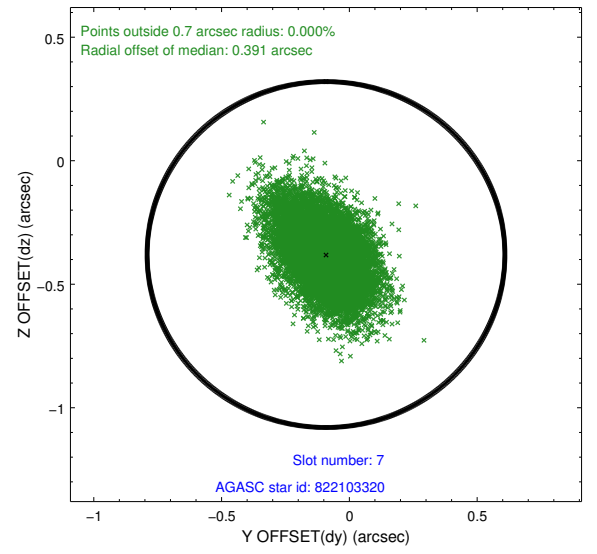
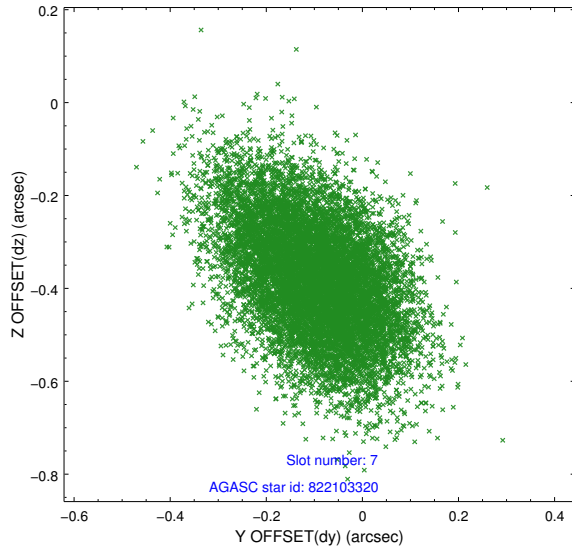
2.4.3 Slot 5



2.4.4 Slot 6

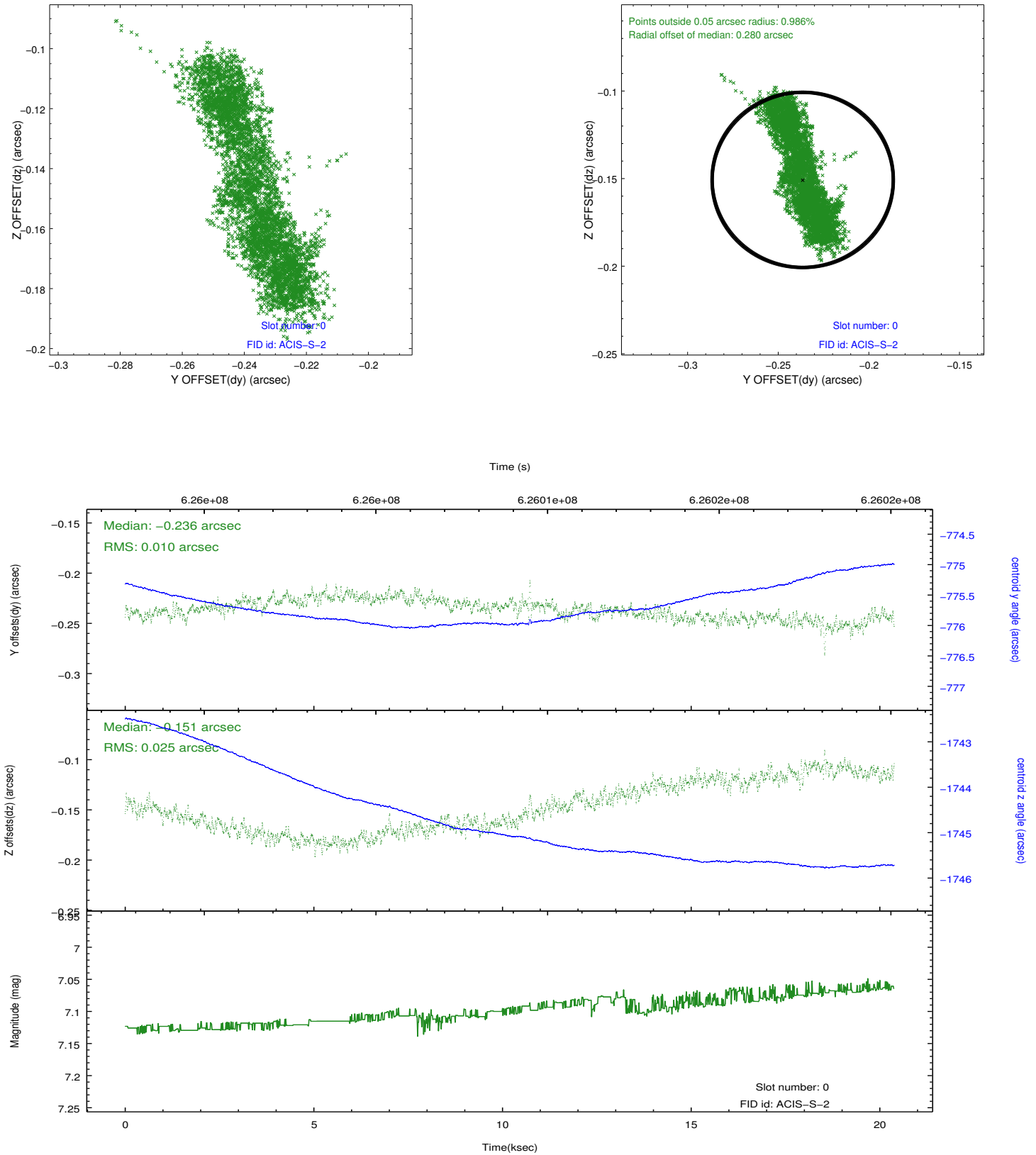


2.4.5 Slot 7

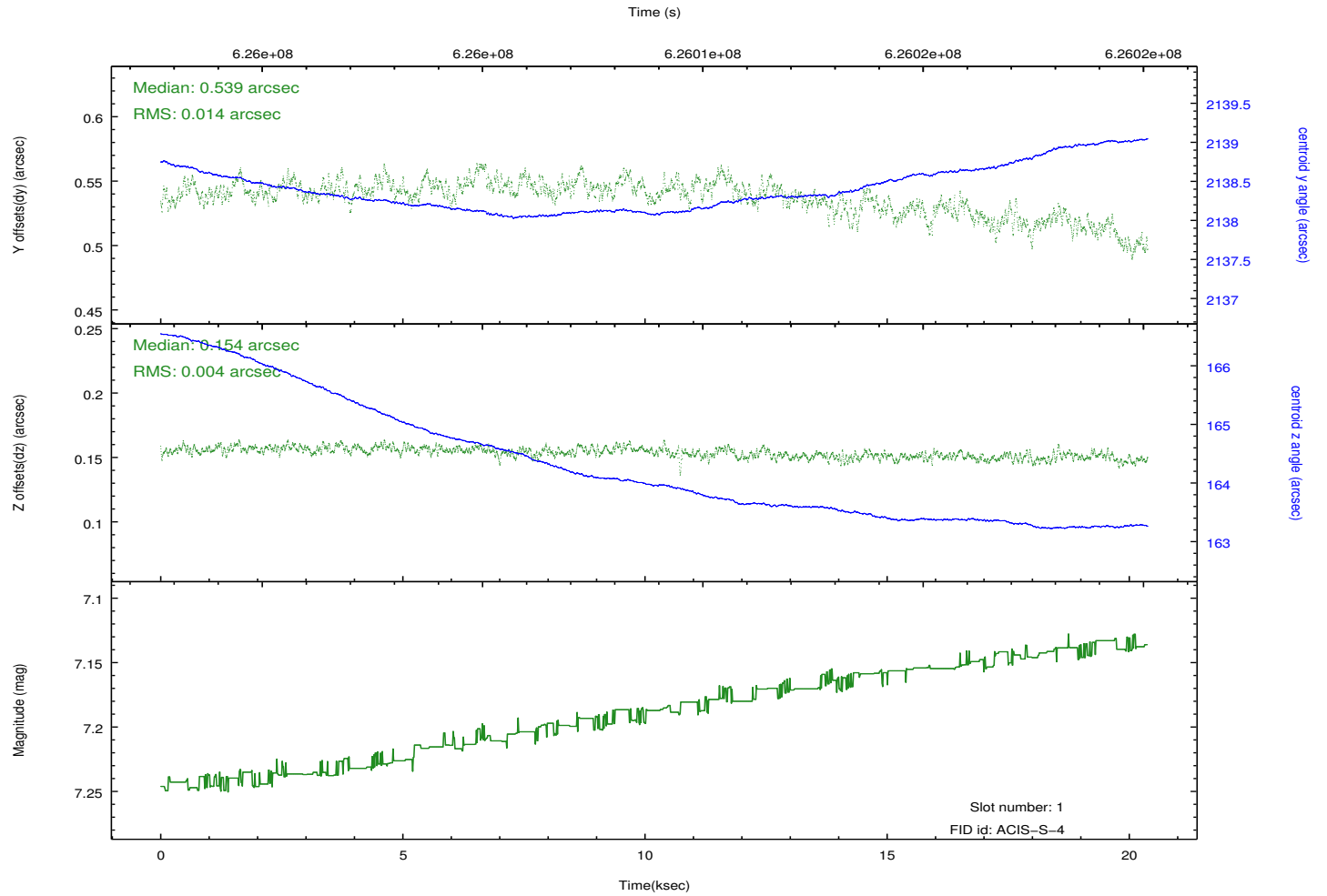
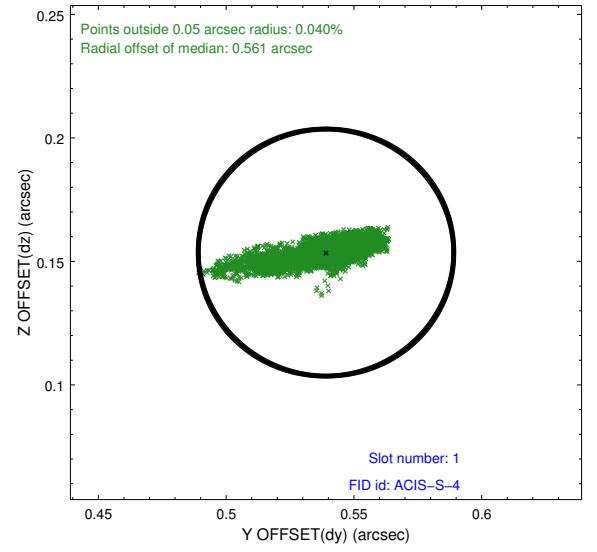
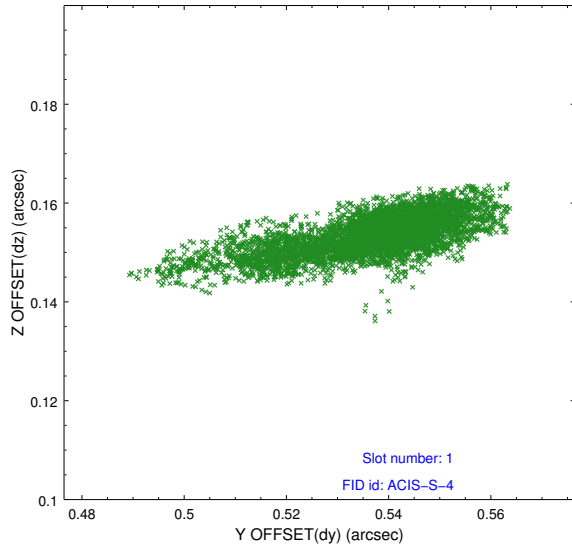


2.5 FID Slots

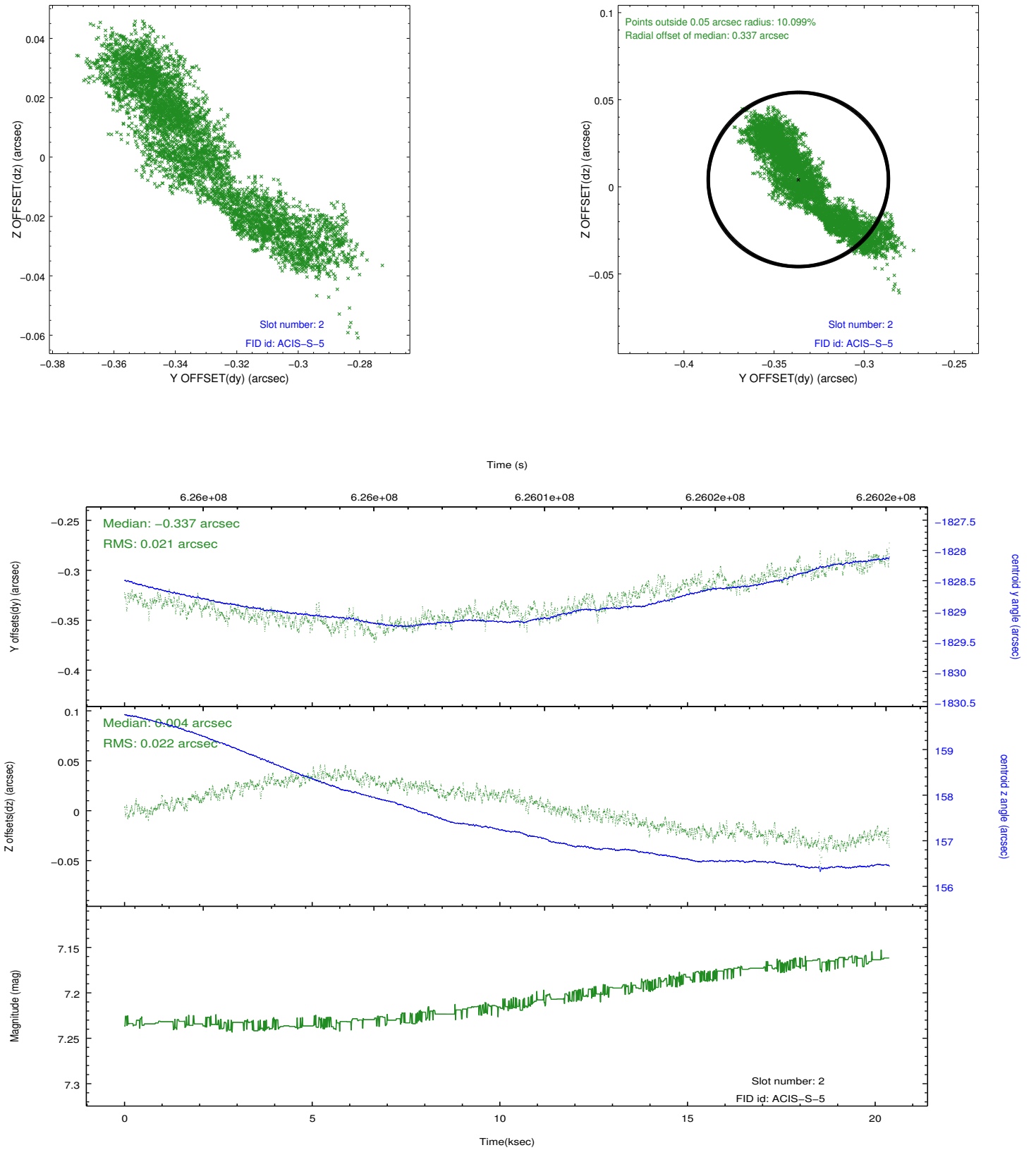
2.5.1 Slot 0



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)	2017.11.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.331598788023

A.2 Comments

Joint proposal with XMM.

Observation coordinated with XMM-Newton.

Window preference met.