

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21502 - L2 Version 1
Chandra X-Ray Center

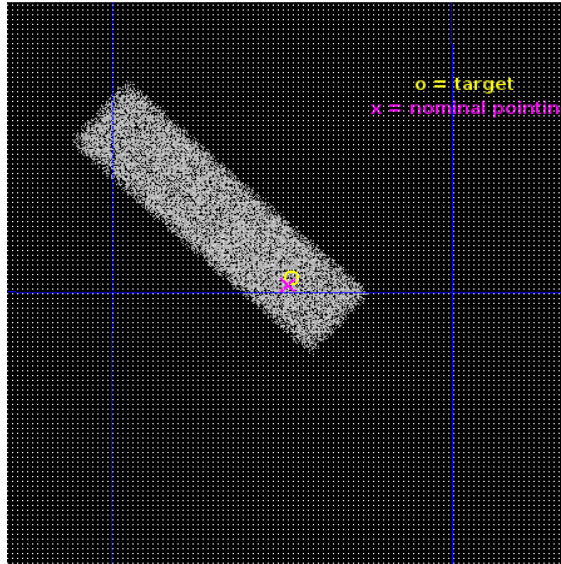
L2 Processing Date : Jul 10 2019

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1 Front

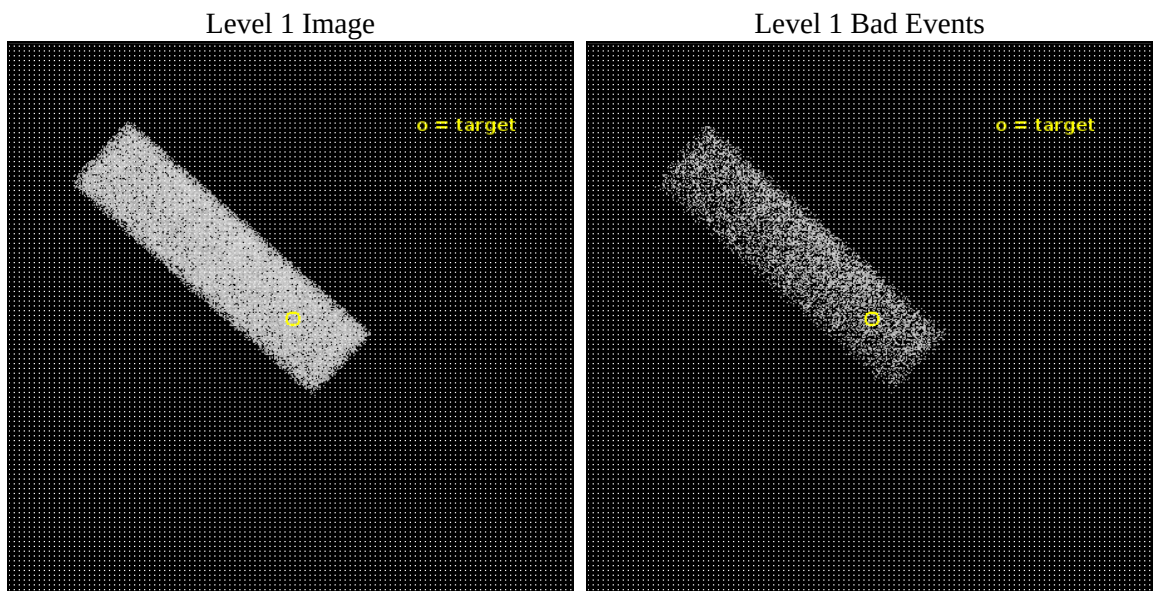
seq_num	703795	Sequence number
obs_id	21502	Observation id
title	Late-Time Emission from Tidal Disruption Flares: Supermassive Black Holes Caught in State Changes?	Proposal title
observer	Nicholas Stone	Principal investigator
object	PS1-10jh	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.367917	Observer's specified target RA [deg]
dec_targ	53.673333	Observer's specified target Dec [deg]
ra_nom	242.37012685971	Nominal RA [deg]
dec_nom	53.67009812748	Nominal Dec [deg]
roll_nom	222.35676130375	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20060.497359276	Sum of GTIs [s]
livetime	19081.610728884	Livetime [s]
ontime7	20060.497359276	Sum of GTIs [s]
l2events	23300	Number of level 2 events



2 OBI

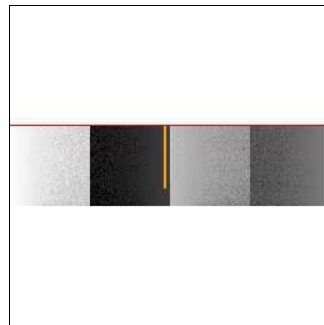
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	20060.497359276	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime7	20060.497359276	Sum of GTIs [s]
date	2019-07-10T16:19:38	Date and time of file creation	l1events	49955	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

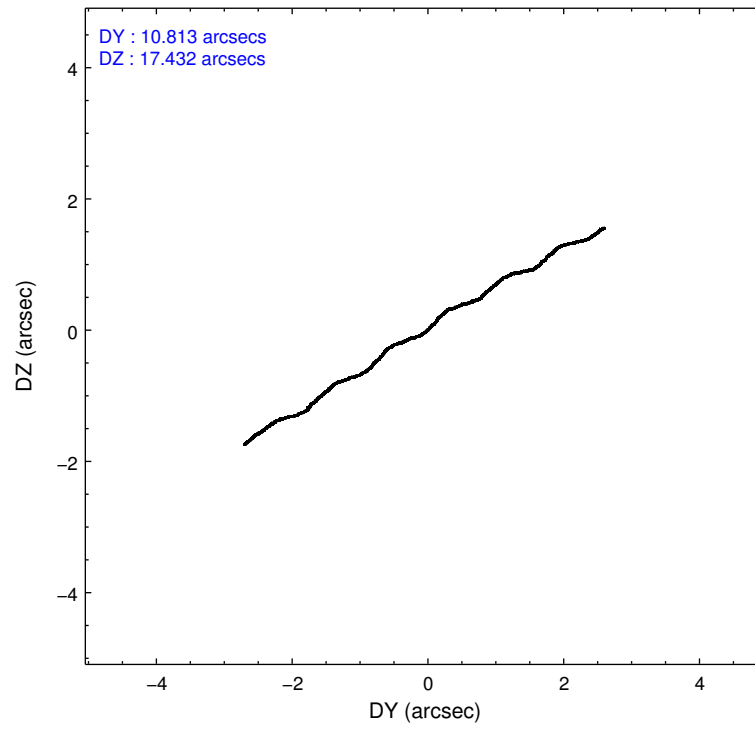
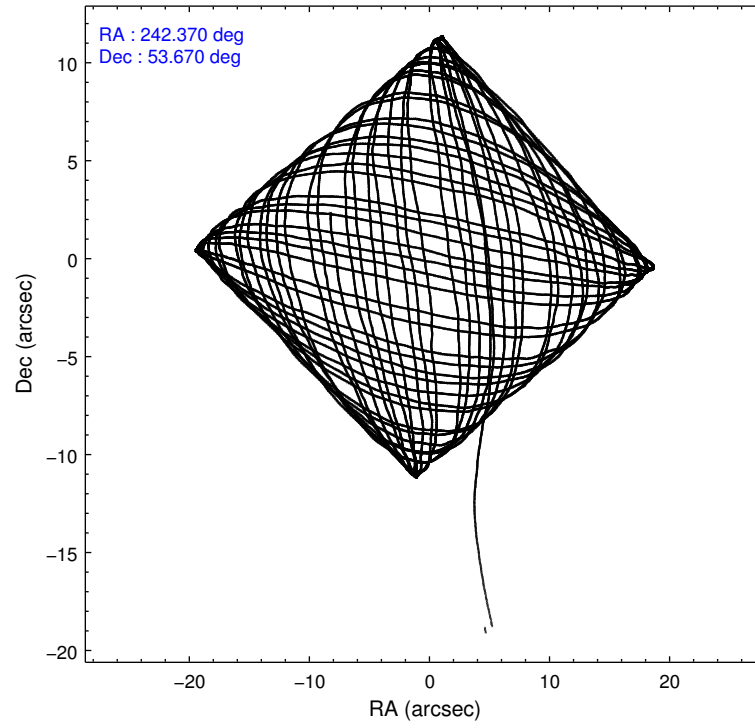
	ccd 7
level 1 events	49955
rejected events	25877
rejected %	51%

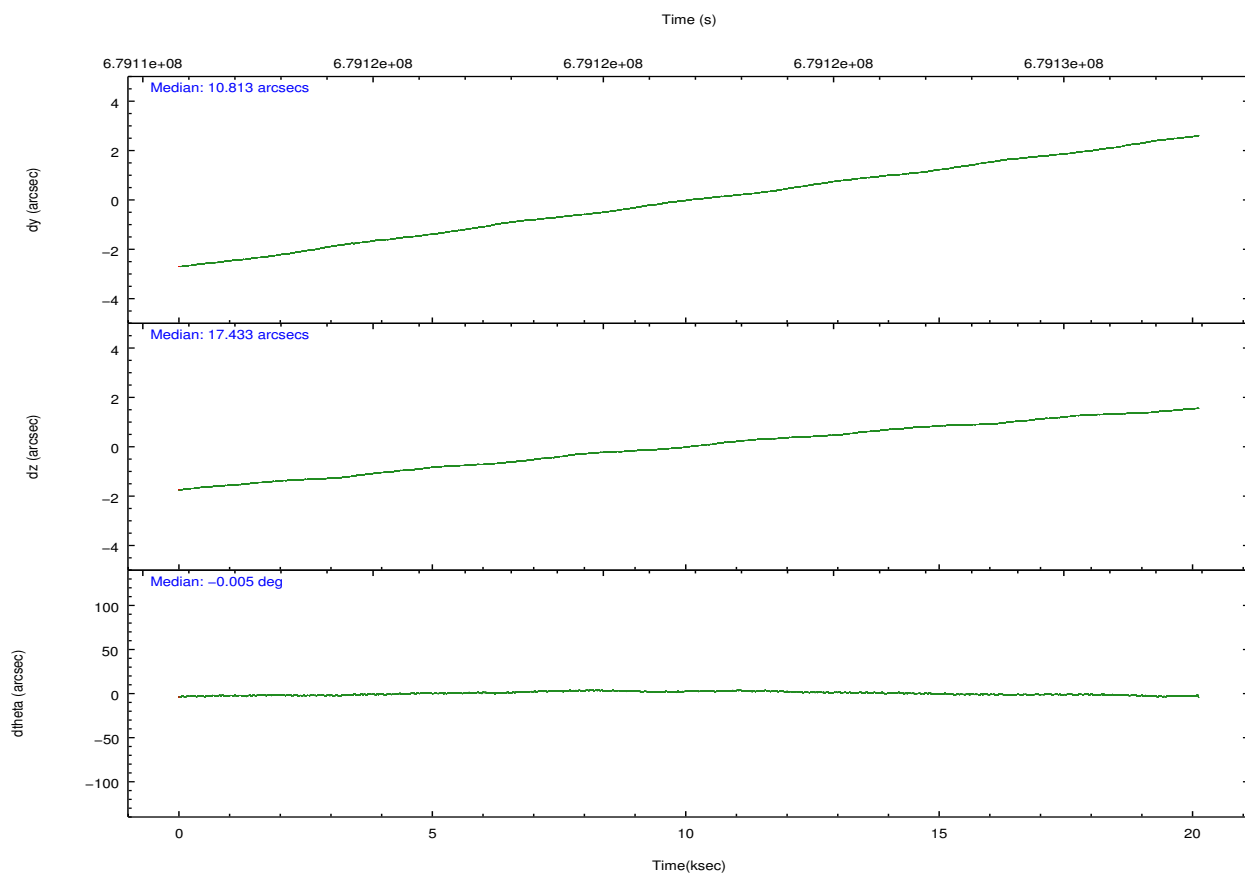
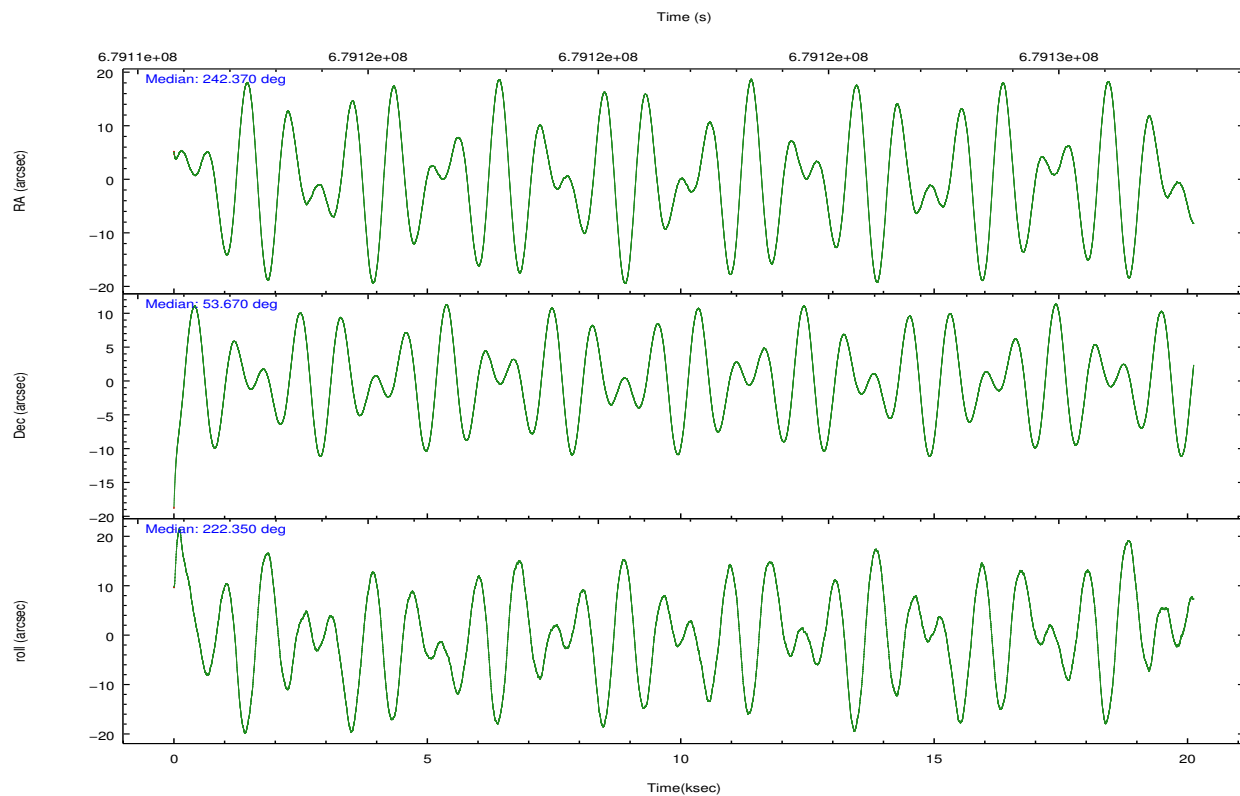
	ccd 7
grade 0 events	2491
	4%
grade 1 events	85
	0%
grade 2 events	5024
	10%
grade 3 events	2655
	5%
grade 4 events	2560
	5%
grade 5 events	5317
	10%
grade 6 events	11349
	22%
grade 7 events	20474
	40%

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	242.383579	242.3701268597141	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	53.696382	53.67009812747958	Subarray start row	385	385
[deg] Pointing Roll	222.189301	222.3567613037501	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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	679111941.184000	679110510.9701101			
Observation start date	2019-07-10T02:11:12	2019-07-10T01:48:30			
[s] Observation end time (MET)	679131941.184000	679132641.7464401			
Observation end date	2019-07-10T07:44:32	2019-07-10T07:57:21			
Read mode	TIMED	TIMED			

2.3 Aspect



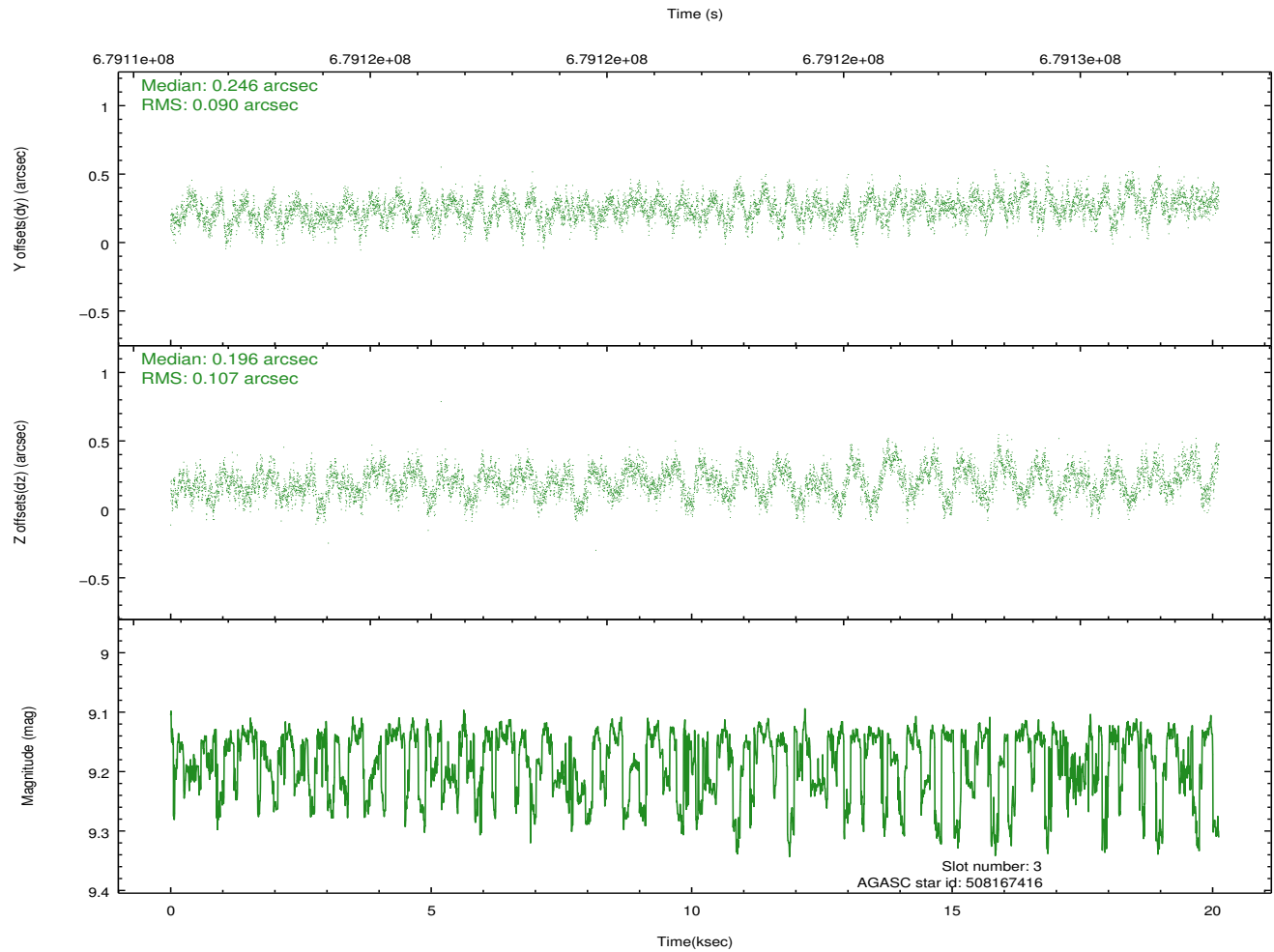
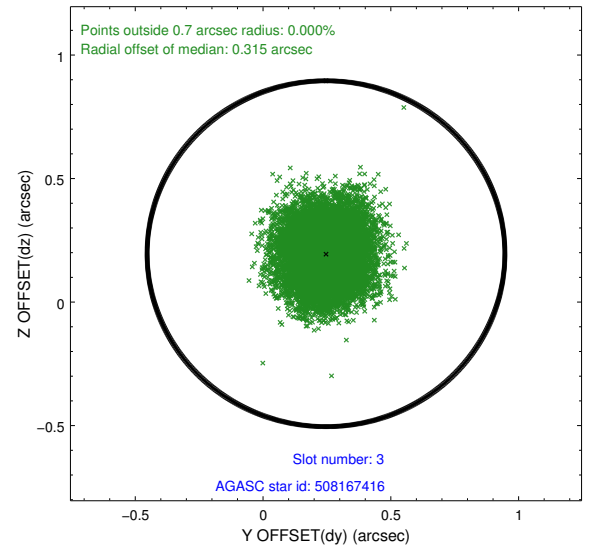
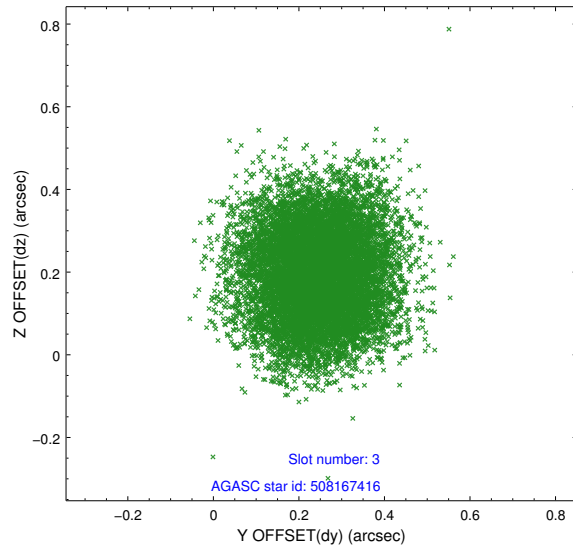


Slot Statistics

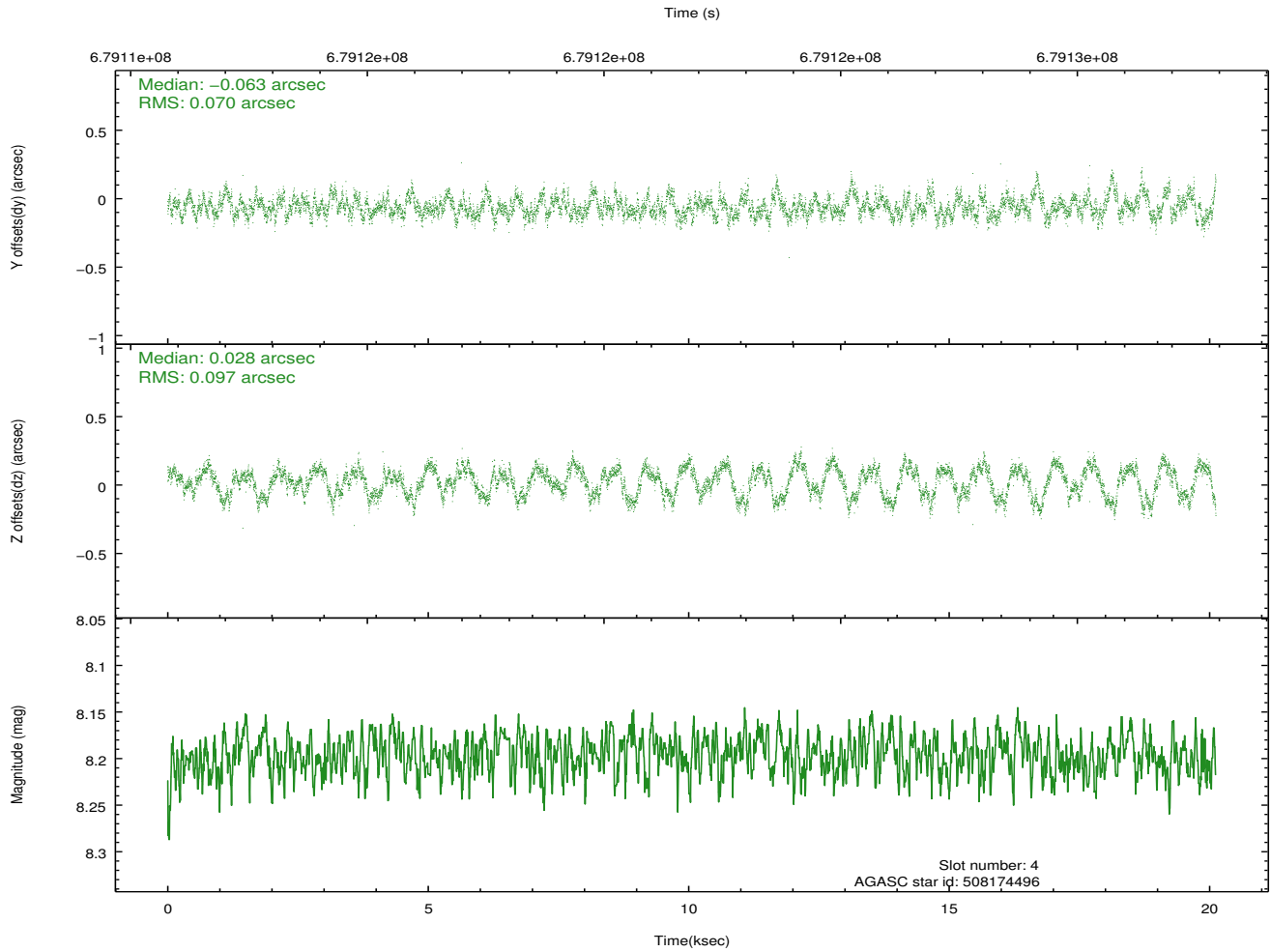
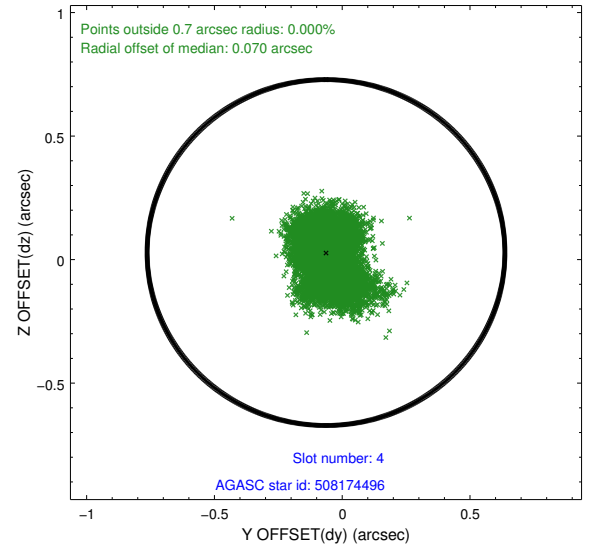
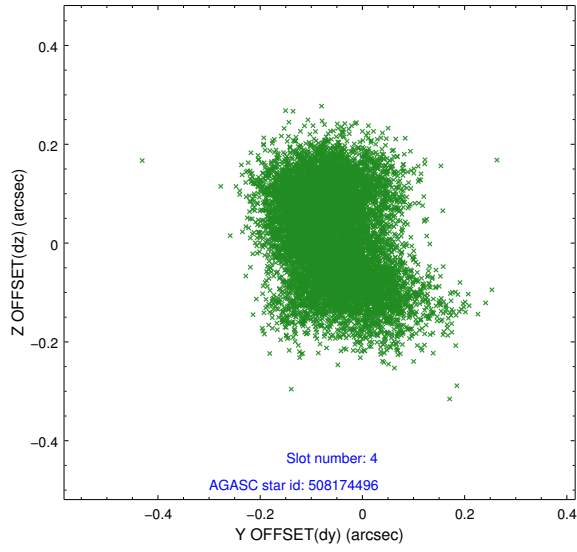
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	4908	1.000	-0.218	-0.174	0.037	0.088	0.000000	0.000000	-763.80	-1739
1	FID		ACIS-S-4	7.15	4905	1.000	0.625	0.152	0.047	0.098	0.000000	0.000000	2150.20	169
2	FID		ACIS-S-5	7.12	4908	1.000	-0.434	0.028	0.063	0.096	0.000000	0.000000	-1816.67	163
3	GUIDE	used	508167416	9.17	9803	1.000	0.246	0.196	0.151	0.236	242.739648	54.324576	-2072.81	-1176
4	GUIDE	used	508174496	8.20	9812	1.000	-0.063	0.028	0.126	0.206	241.573933	53.294304	2257.20	-104
5	GUIDE	used	508175600	7.50	9813	1.000	-0.615	-0.479	0.110	0.169	242.339515	52.904973	1983.77	2046
6	GUIDE	used	508181792	8.45	9813	1.000	0.170	-0.079	0.139	0.232	241.580704	53.515038	1706.24	-675
7	GUIDE	used	508169224	9.80	9781	1.000	0.264	0.326	0.203	0.384	242.580277	53.826359	-623.62	-66

2.4 Star Slots

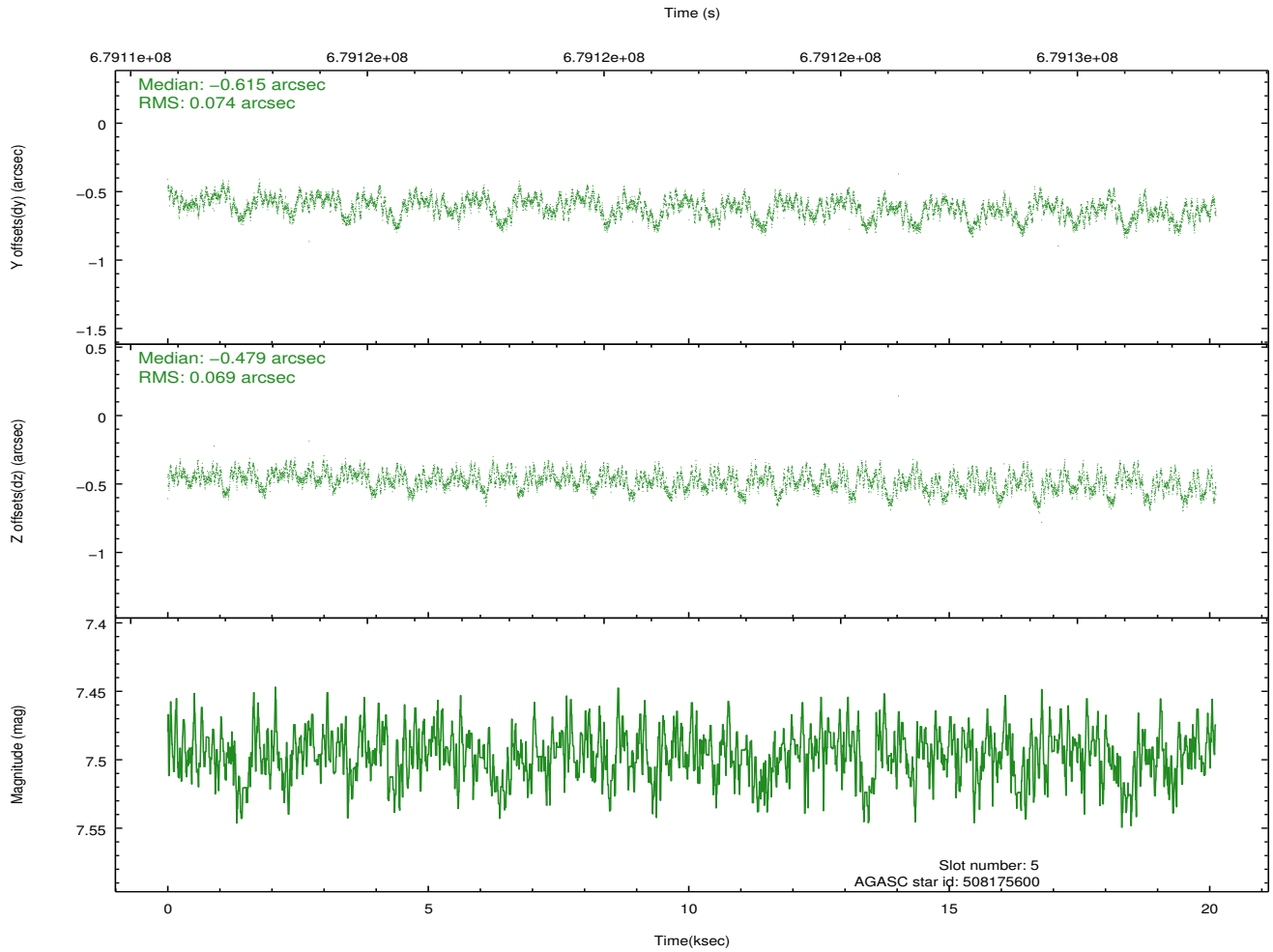
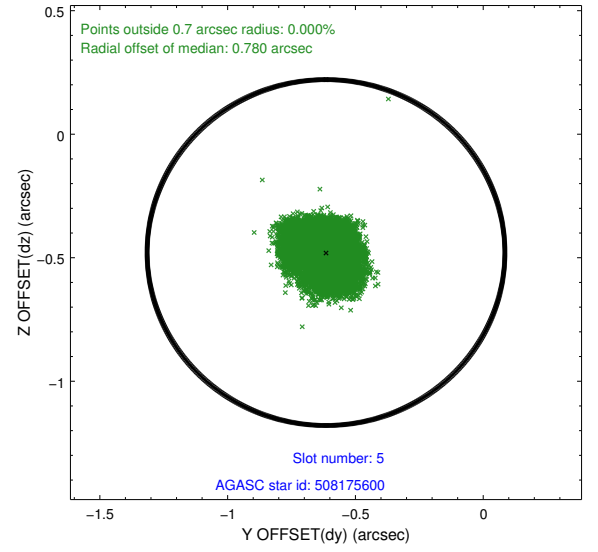
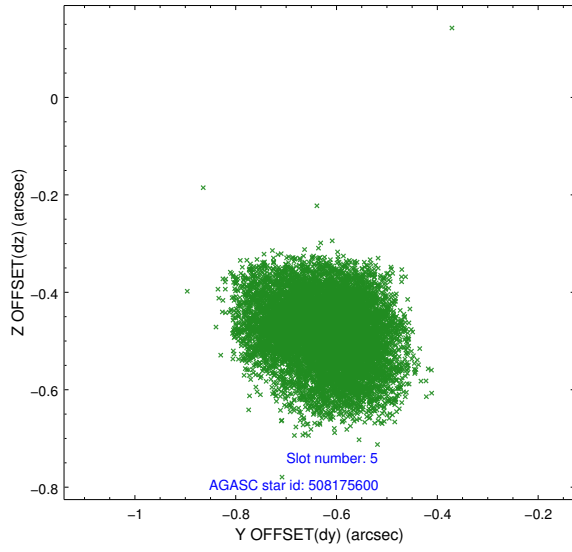
2.4.1 Slot 3



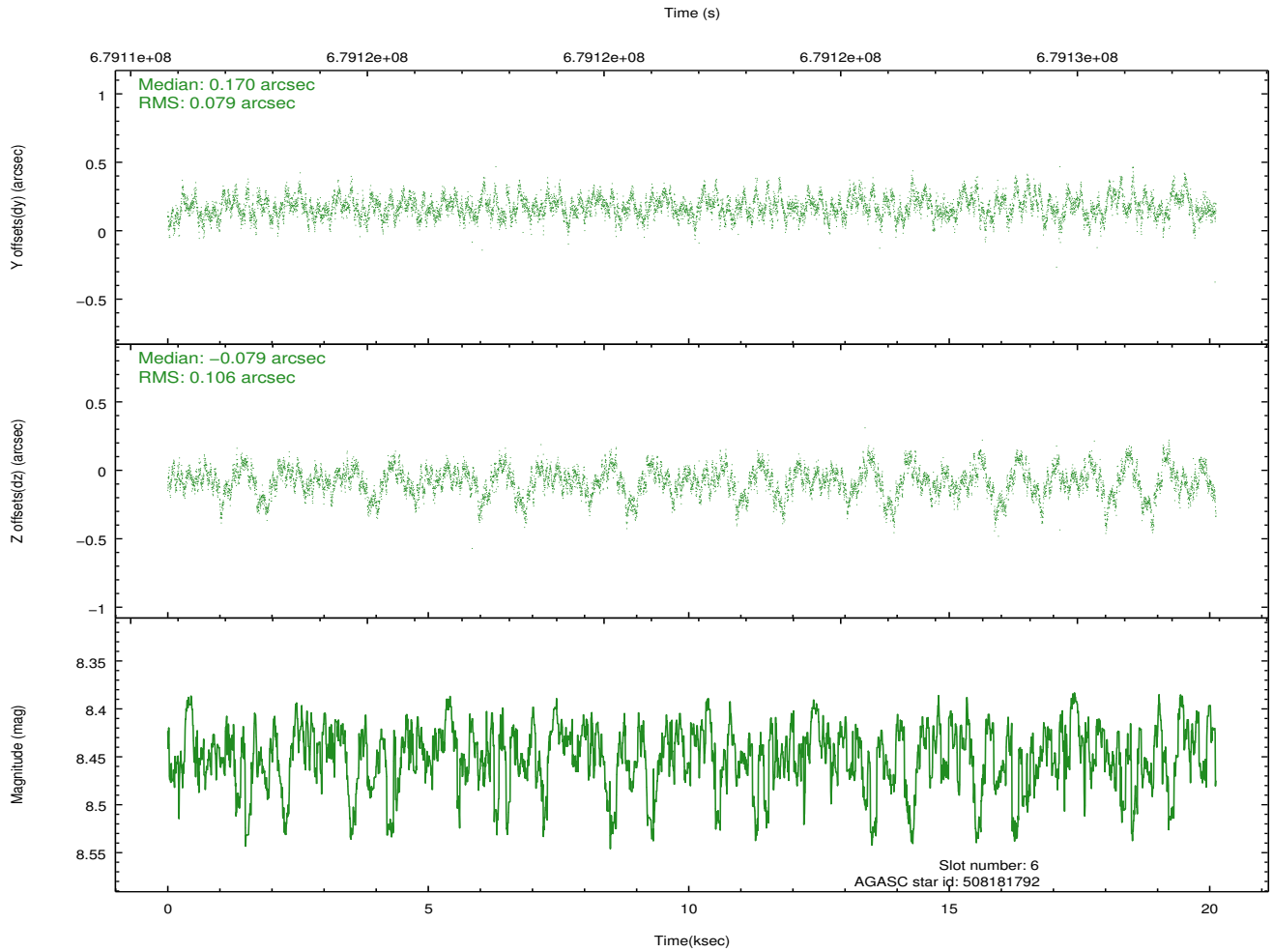
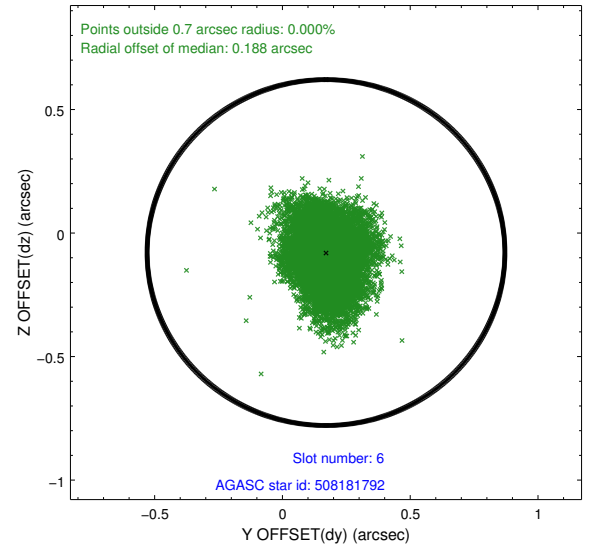
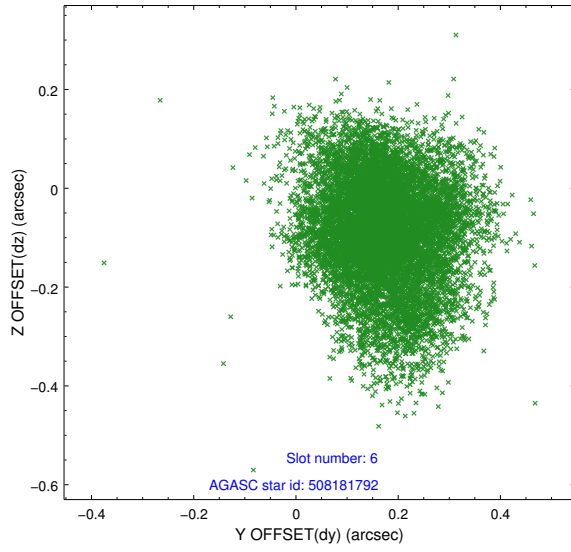
2.4.2 Slot 4



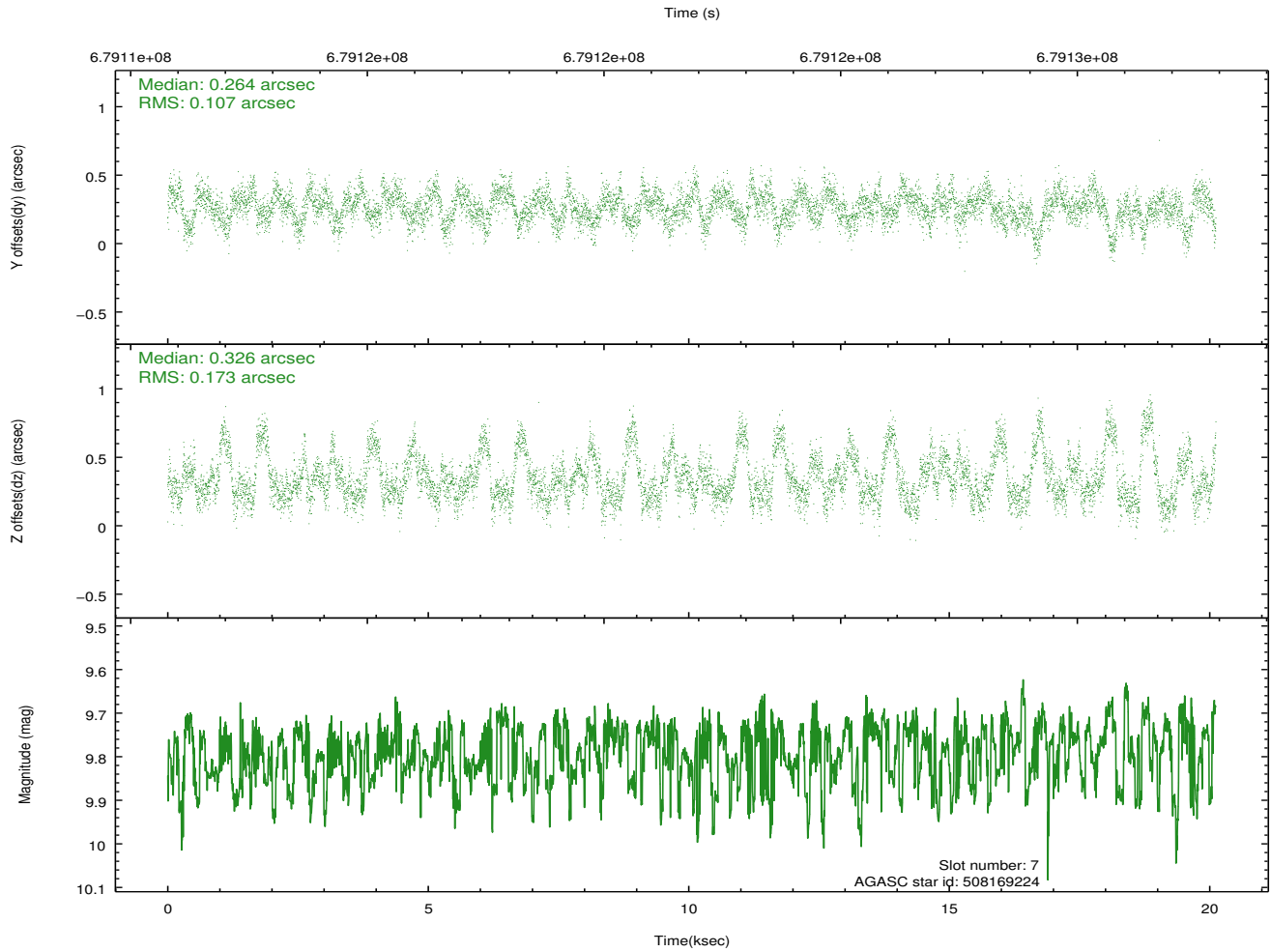
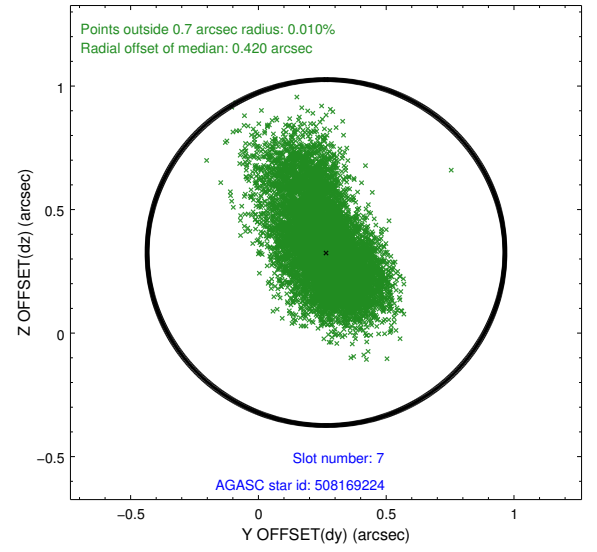
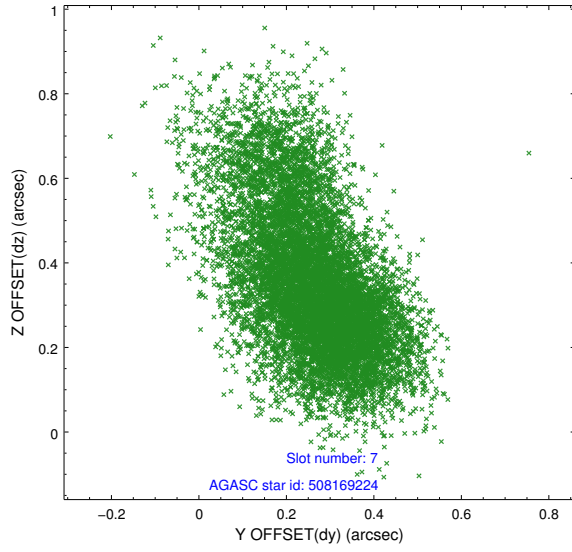
2.4.3 Slot 5



2.4.4 Slot 6

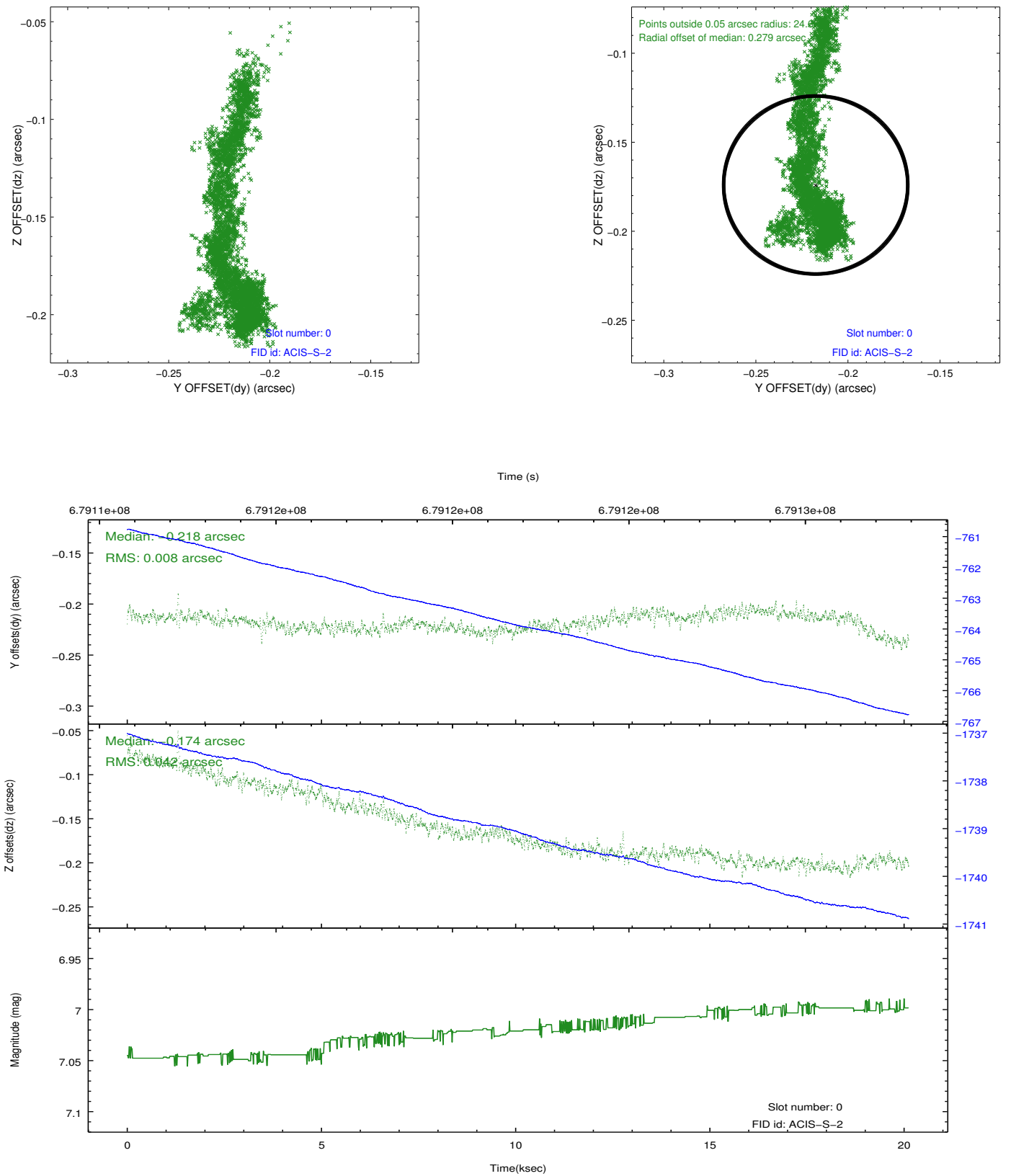


2.4.5 Slot 7

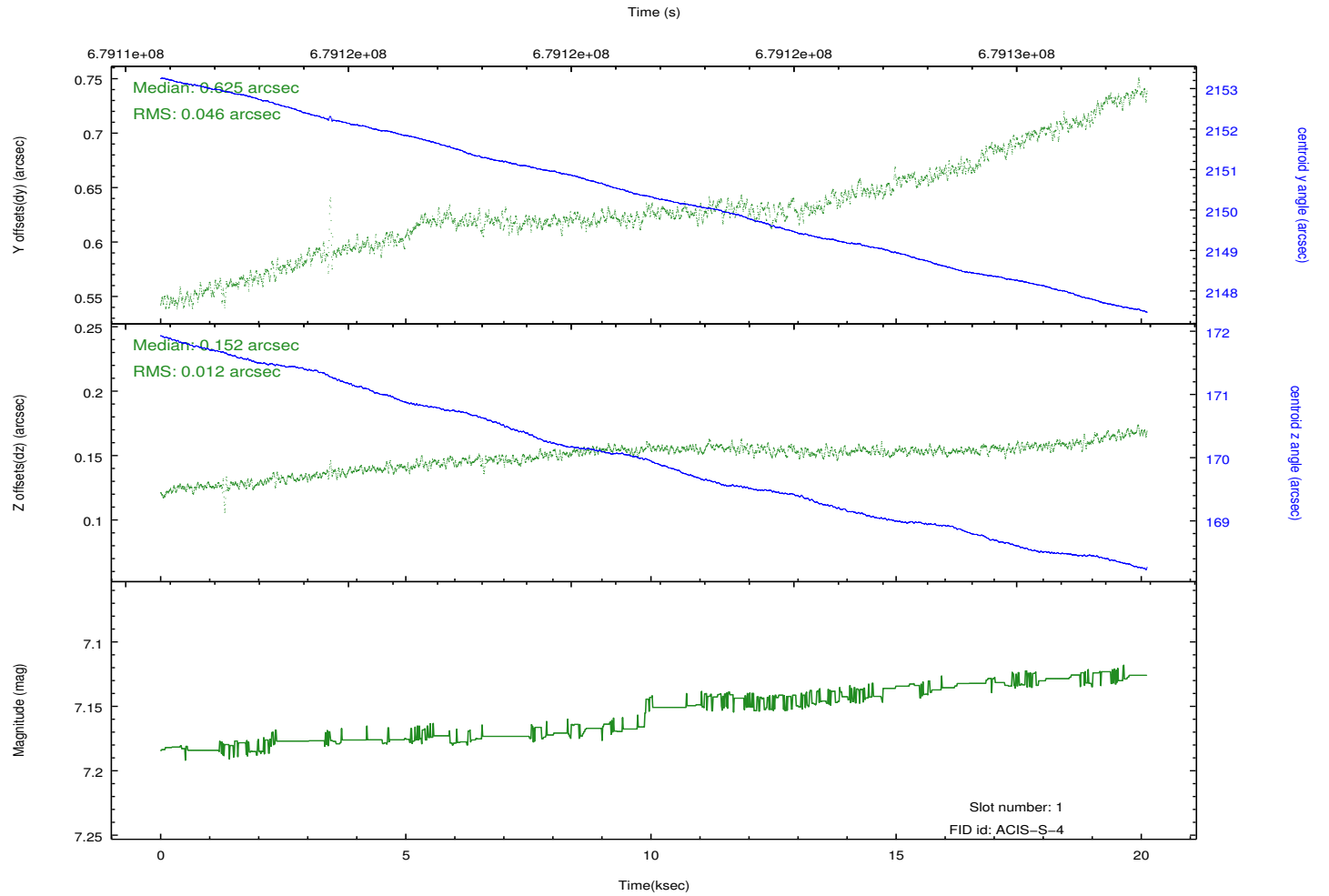
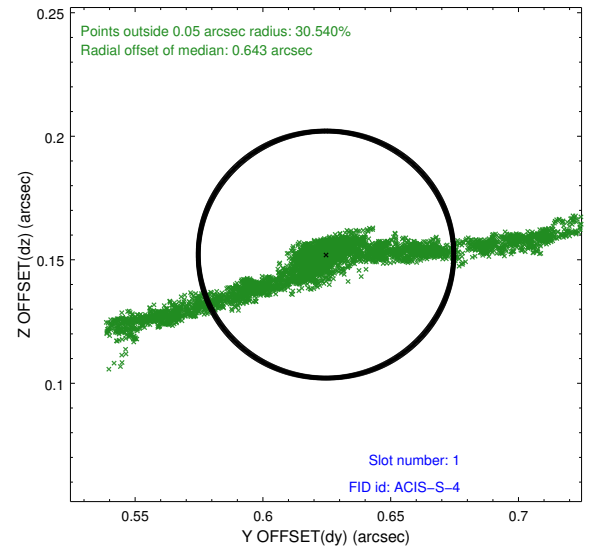
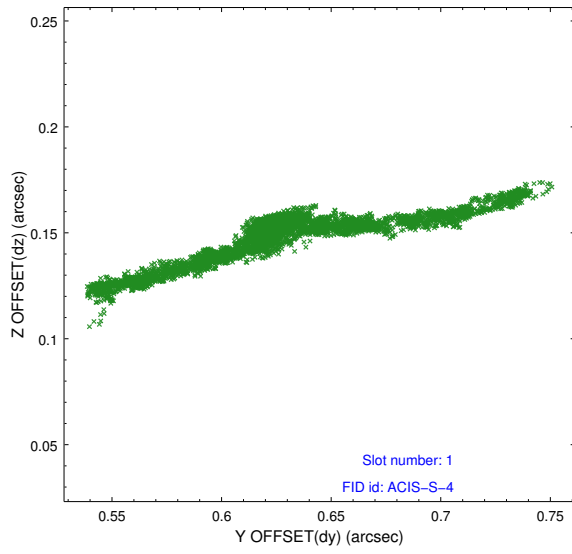


2.5 FID Slots

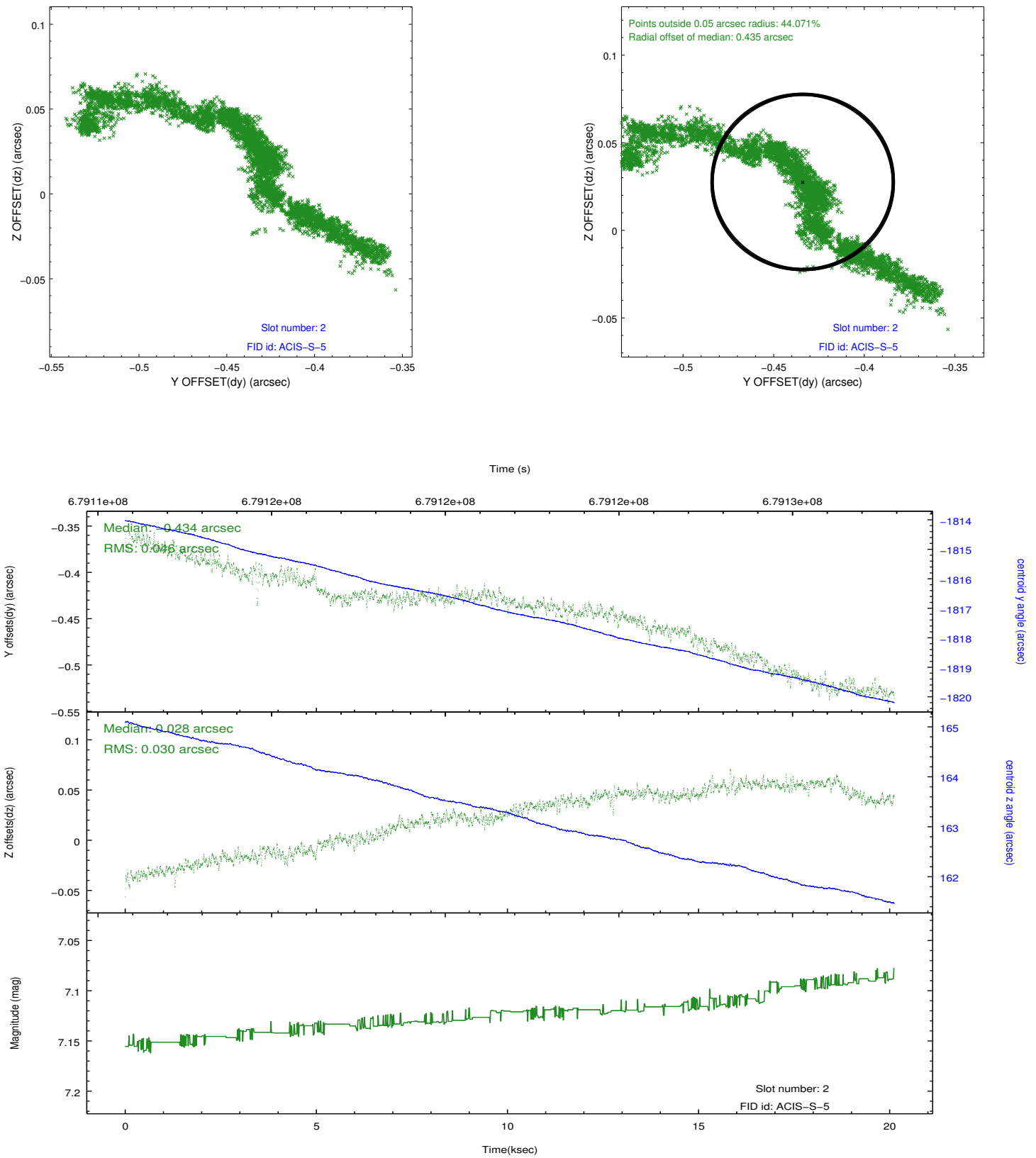
2.5.1 Slot 0



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)	2019.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.060497359276

A.2 Comments