

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22145 - L2 Version 1
Chandra X-Ray Center

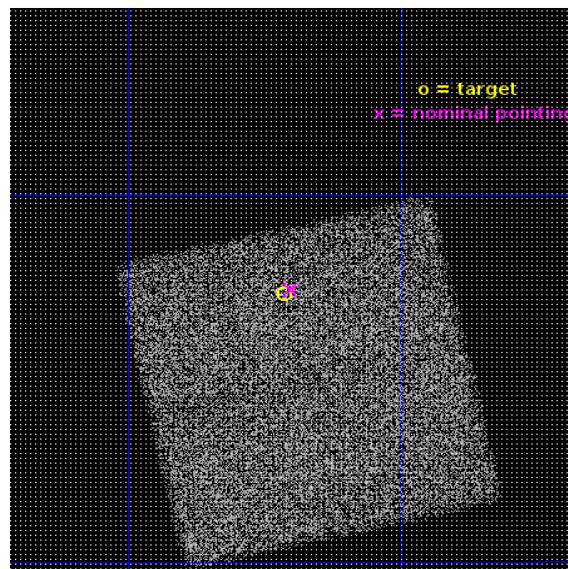
L2 Processing Date : Mar 17 2019

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

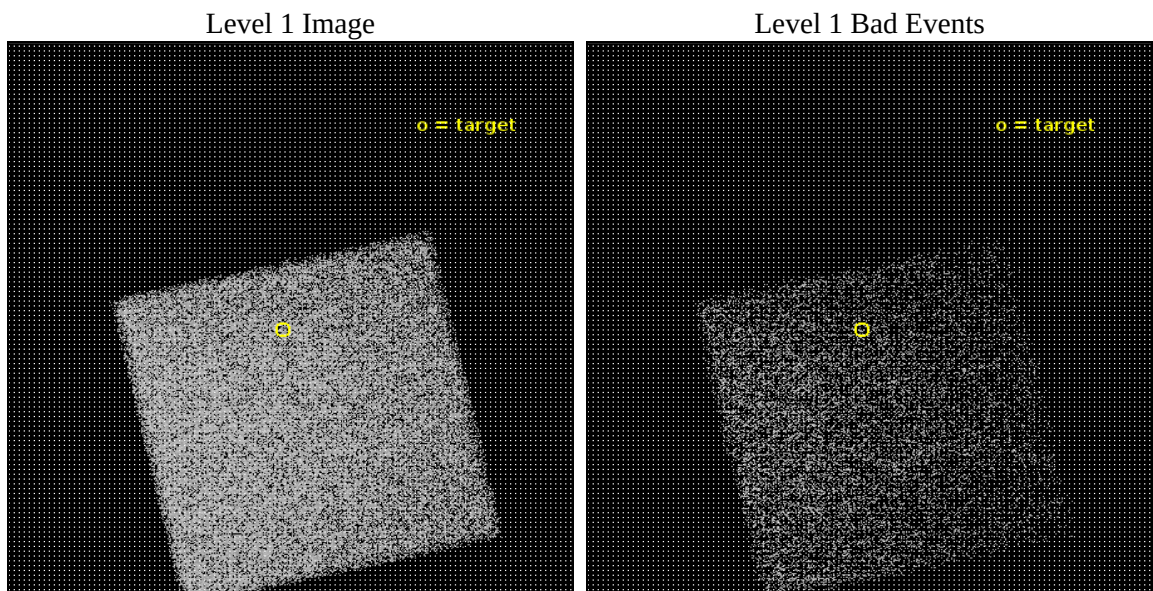
seq_num	703873	Sequence number
obs_id	22145	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	2HWC_J1928p178_s1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.053131	Observer's specified target RA [deg]
dec_targ	17.788471	Observer's specified target Dec [deg]
ra_nom	292.05009129259	Nominal RA [deg]
dec_nom	17.790264648328	Nominal Dec [deg]
roll_nom	77.157598459796	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10090.532868862	Sum of GTIs [s]
livetime	9954.3572615245	Livetime [s]
ontime7	10090.532868862	Sum of GTIs [s]
l2events	40356	Number of level 2 events



2 OBI

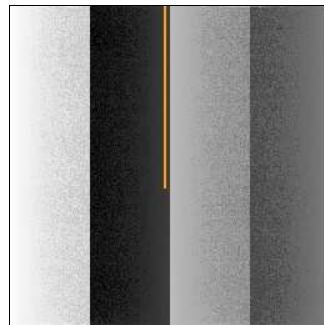
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10090.532868862	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	10090.532868862	Sum of GTIs [s]
date	2019-03-17T06:00:11	Date and time of file creation	l1events	95533	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	95533
rejected events	54043
rejected %	56%

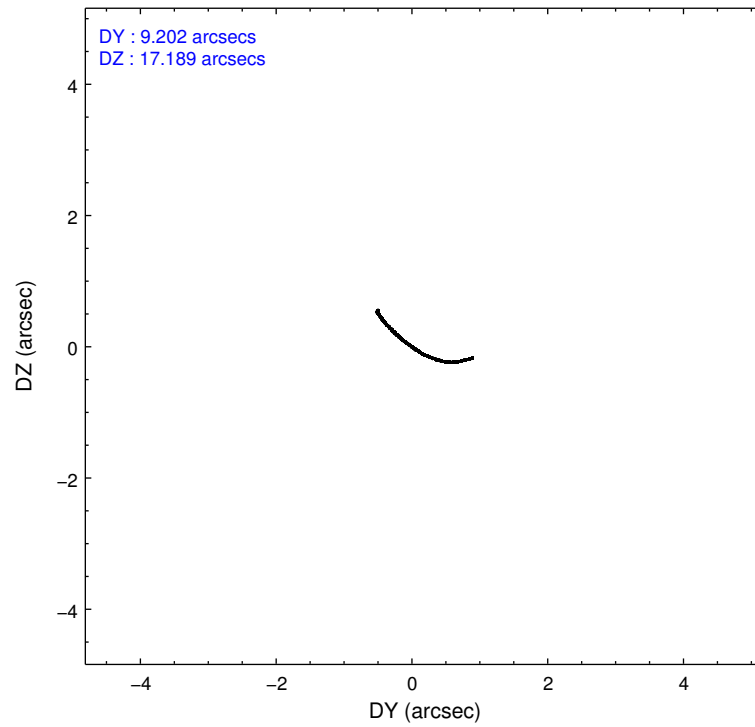
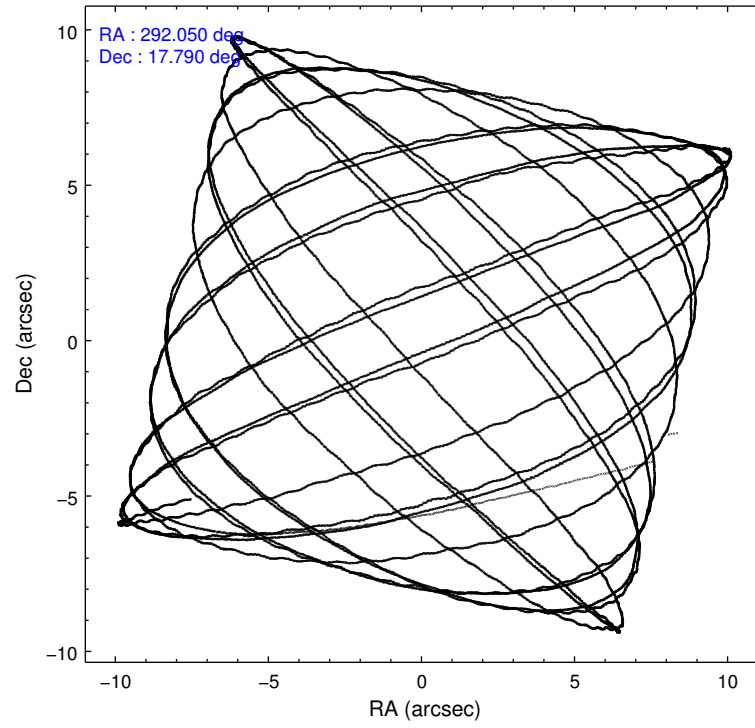
	ccd 7
grade 0 events	3400
	3%
grade 1 events	163
	0%
grade 2 events	8753
	9%
grade 3 events	3224
	3%
grade 4 events	3117
	3%
grade 5 events	9238
	9%
grade 6 events	23016
	24%
grade 7 events	44622
	46%

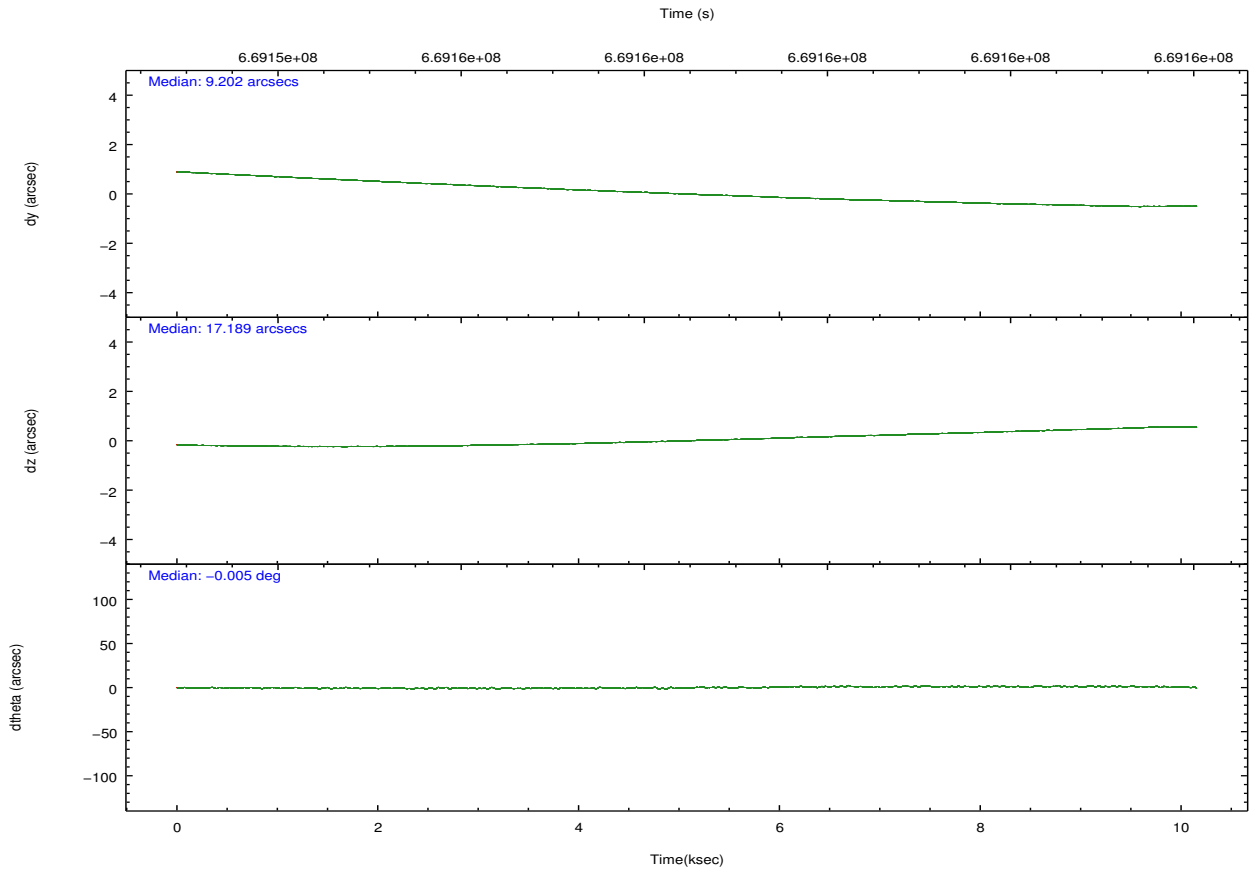
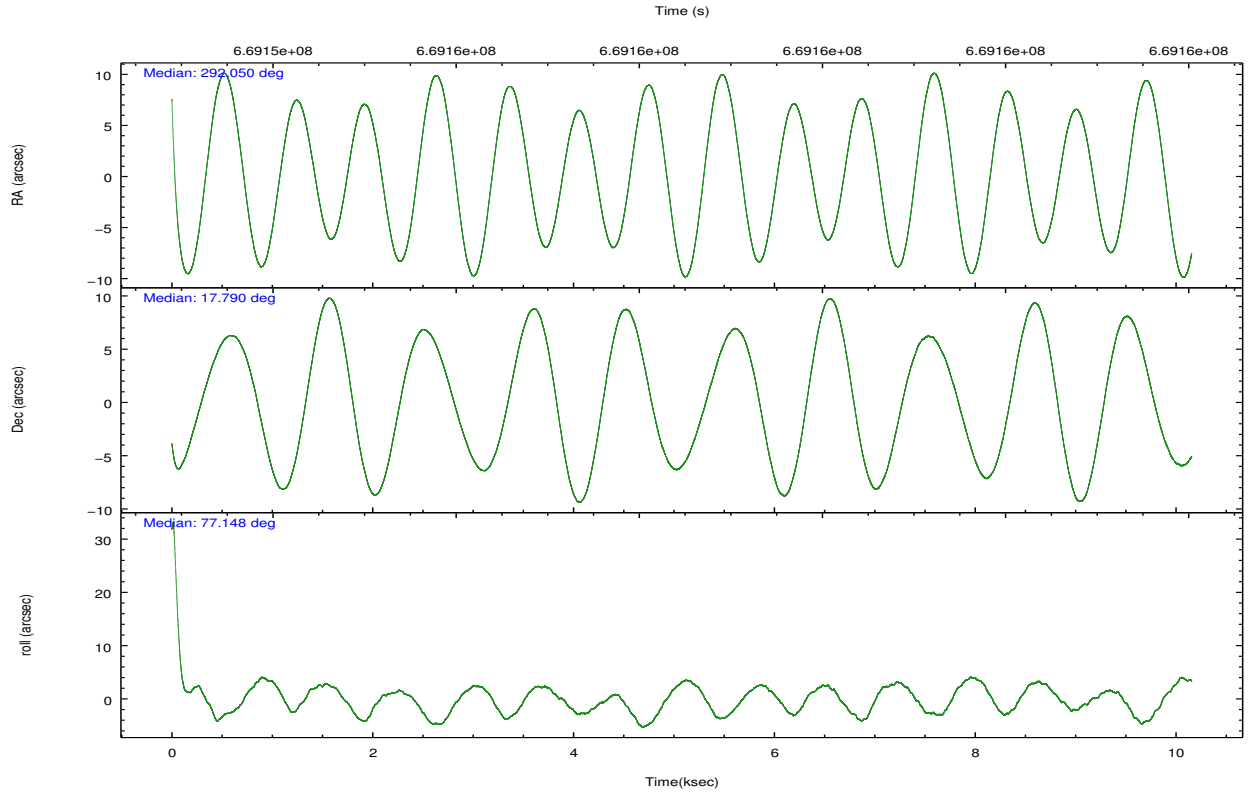
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	292.058999	292.0500912925921
[deg] Pointing Dec	17.764169	17.79026464832764
[deg] Pointing Roll	76.998210	77.1575984597963
[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)	669153535.184000	669152265.86087
Observation start date	2019-03-16T19:57:46	2019-03-16T19:37:45
[s] Observation end time (MET)	669163535.184000	669164398.2740999
Observation end date	2019-03-16T22:44:26	2019-03-16T22:59:58
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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

2.3 Aspect



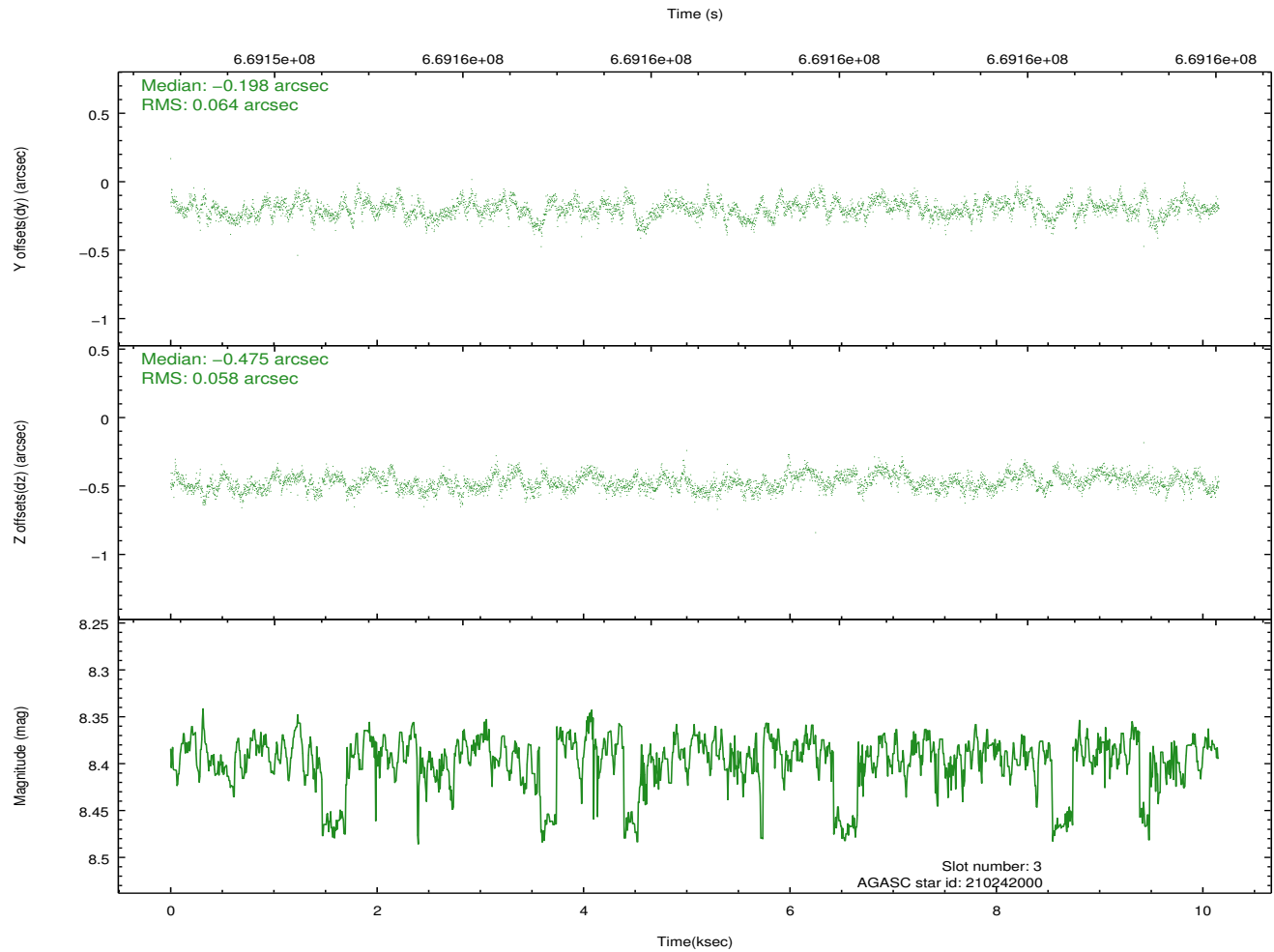
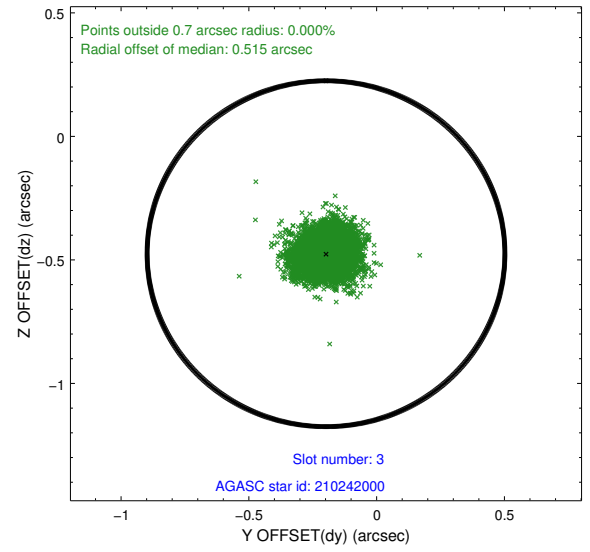
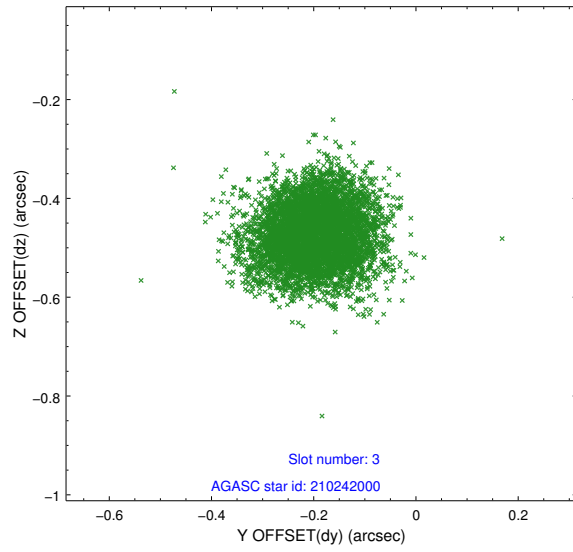


Slot Statistics

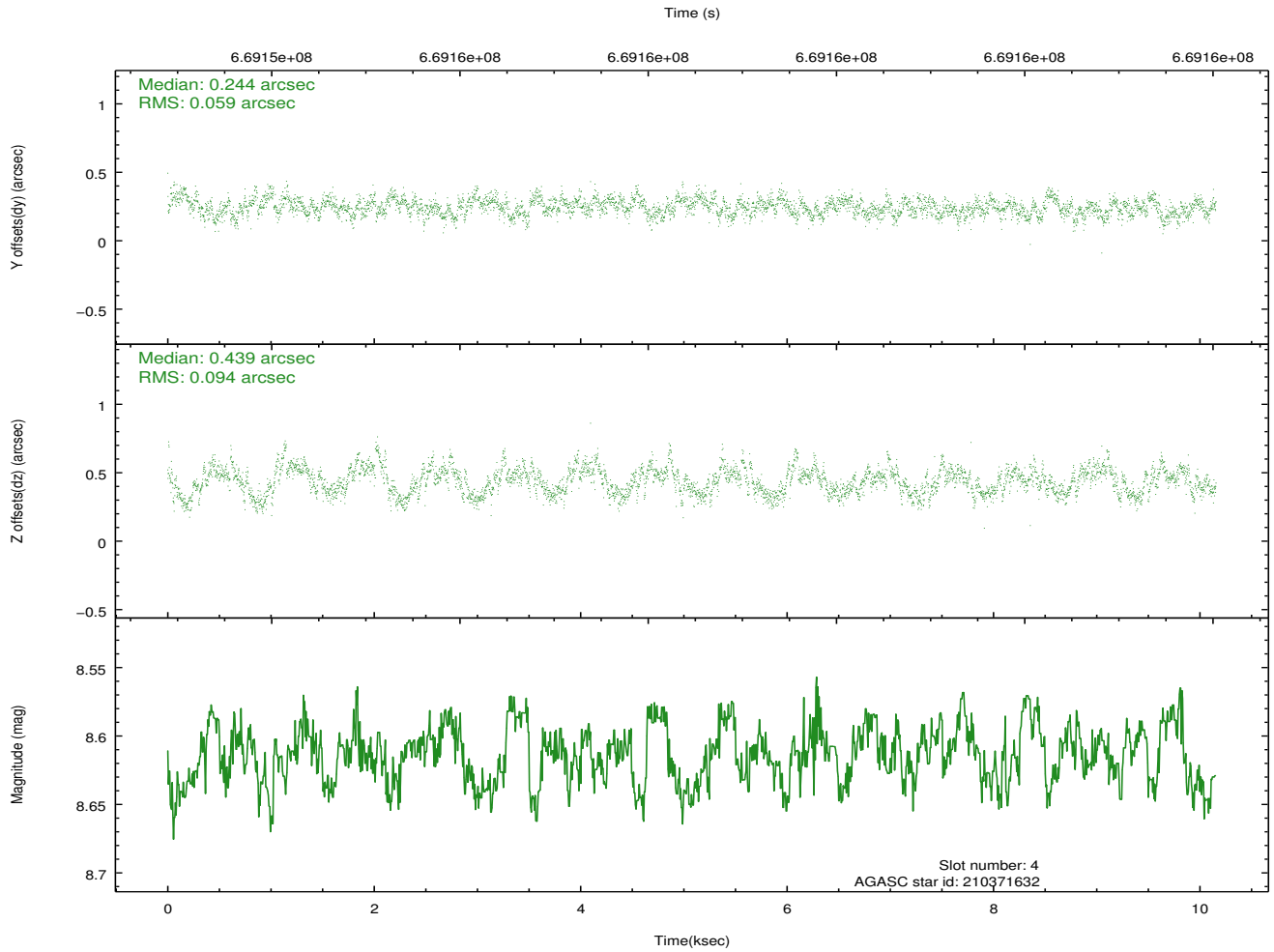
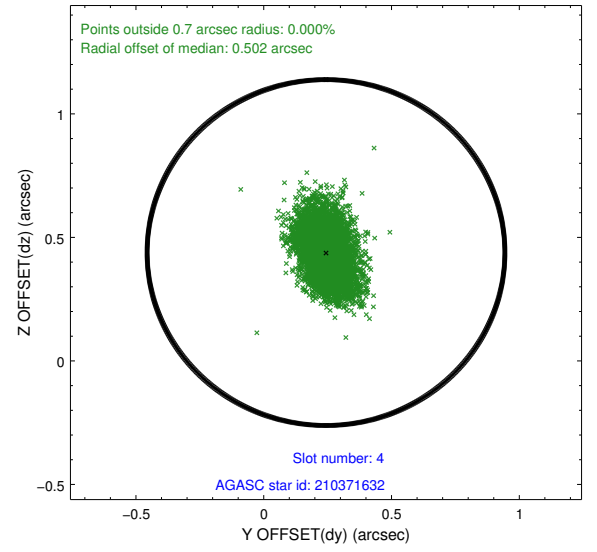
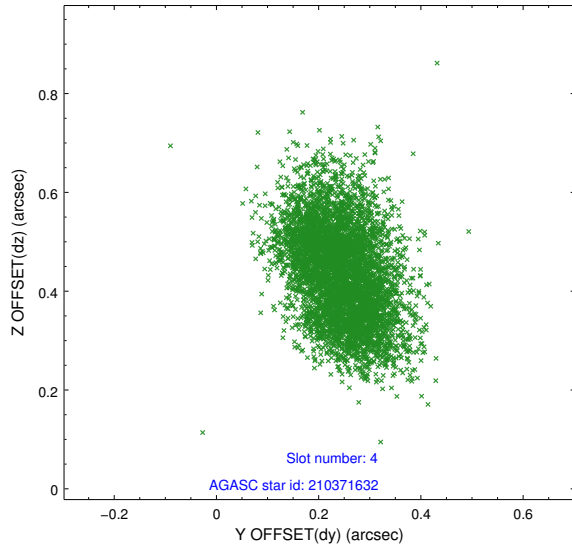
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	2478	1.000	-0.271	-0.185	0.014	0.021	0.000000	0.000000	-762.31	-1738
1	FID		ACIS-S-4	7.24	2478	1.000	0.673	0.179	0.029	0.045	0.000000	0.000000	2151.63	169
2	FID		ACIS-S-5	7.22	2478	1.000	-0.430	0.013	0.020	0.029	0.000000	0.000000	-1814.68	163
3	GUIDE	used	210242000	8.39	4953	1.000	-0.198	-0.475	0.092	0.147	291.855938	18.188243	1332.01	1020
4	GUIDE	used	210371632	8.61	4947	1.000	0.244	0.439	0.118	0.194	292.399253	17.584925	-364.99	-1283
5	GUIDE	used	210372800	7.61	4954	1.000	0.184	0.274	0.102	0.169	292.605285	17.695257	183.43	-1880
6	GUIDE	used	210375176	7.17	4954	1.000	-0.085	-0.327	0.109	0.170	292.026286	17.846693	264.14	174
7	GUIDE	used	210375784	7.13	4883	1.000	-0.150	0.084	0.137	0.228	292.707024	18.250669	2209.38	-1763

2.4 Star Slots

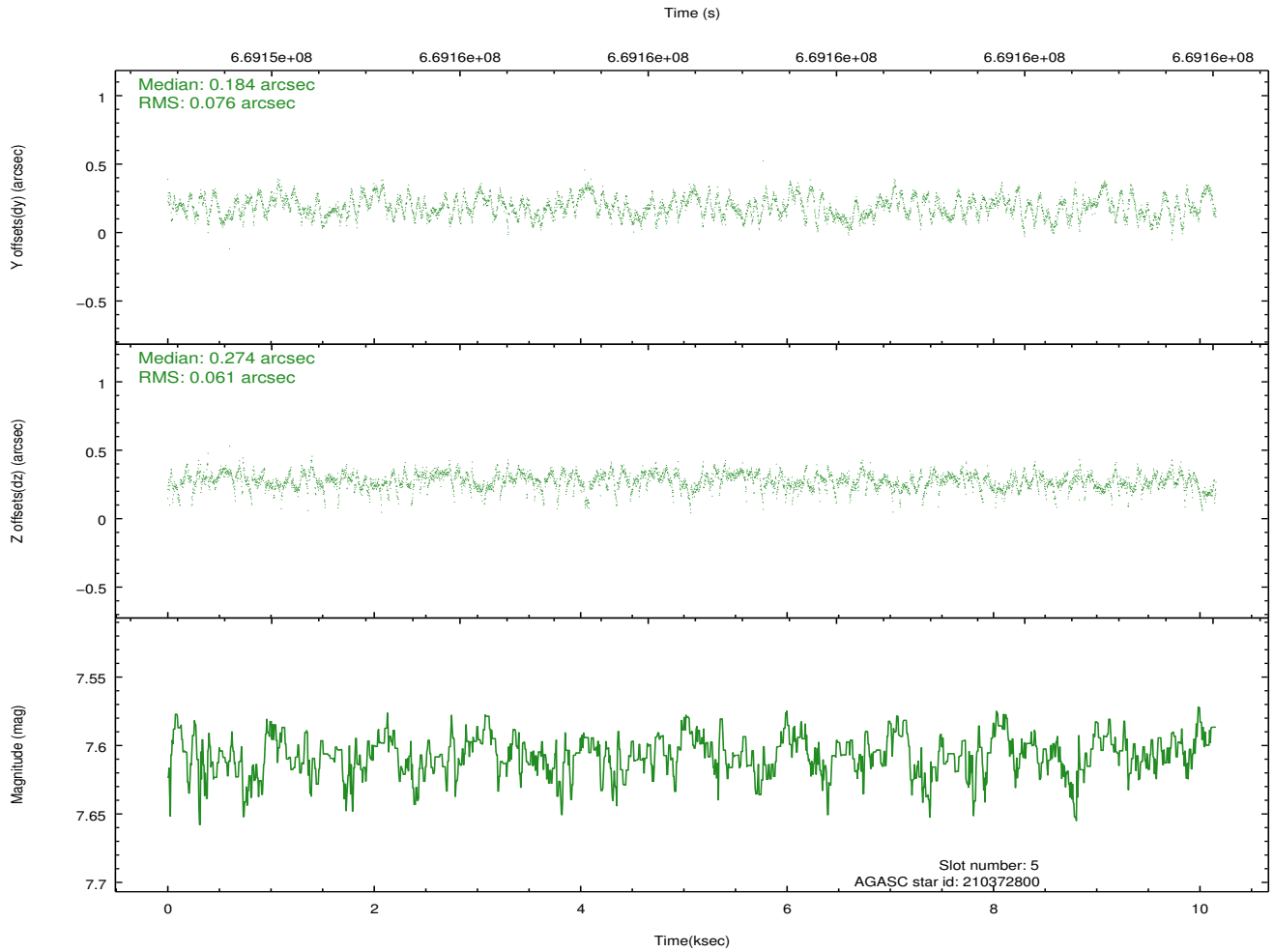
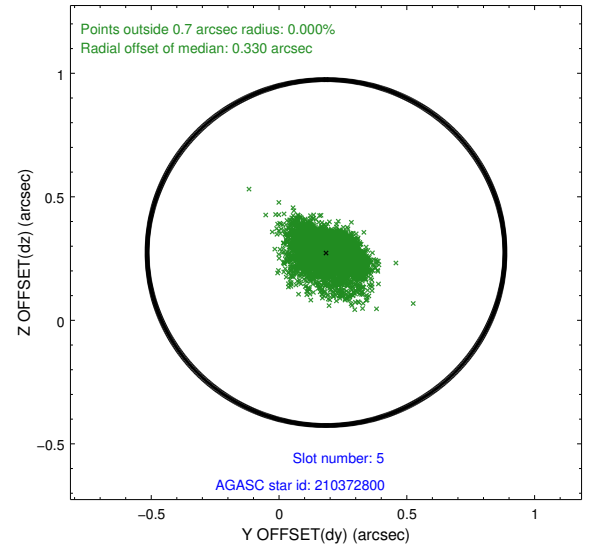
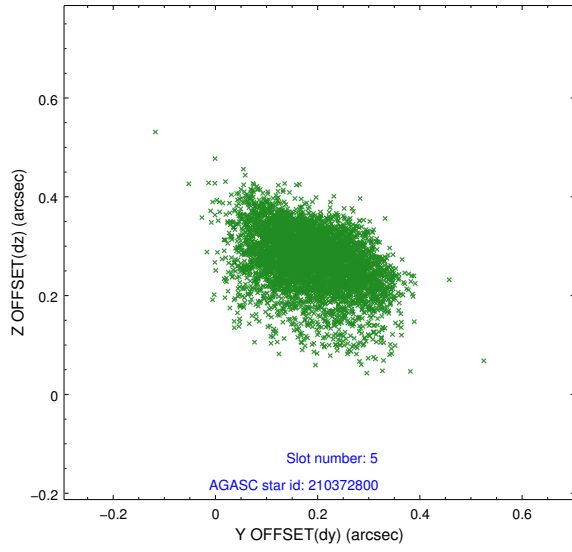
2.4.1 Slot 3



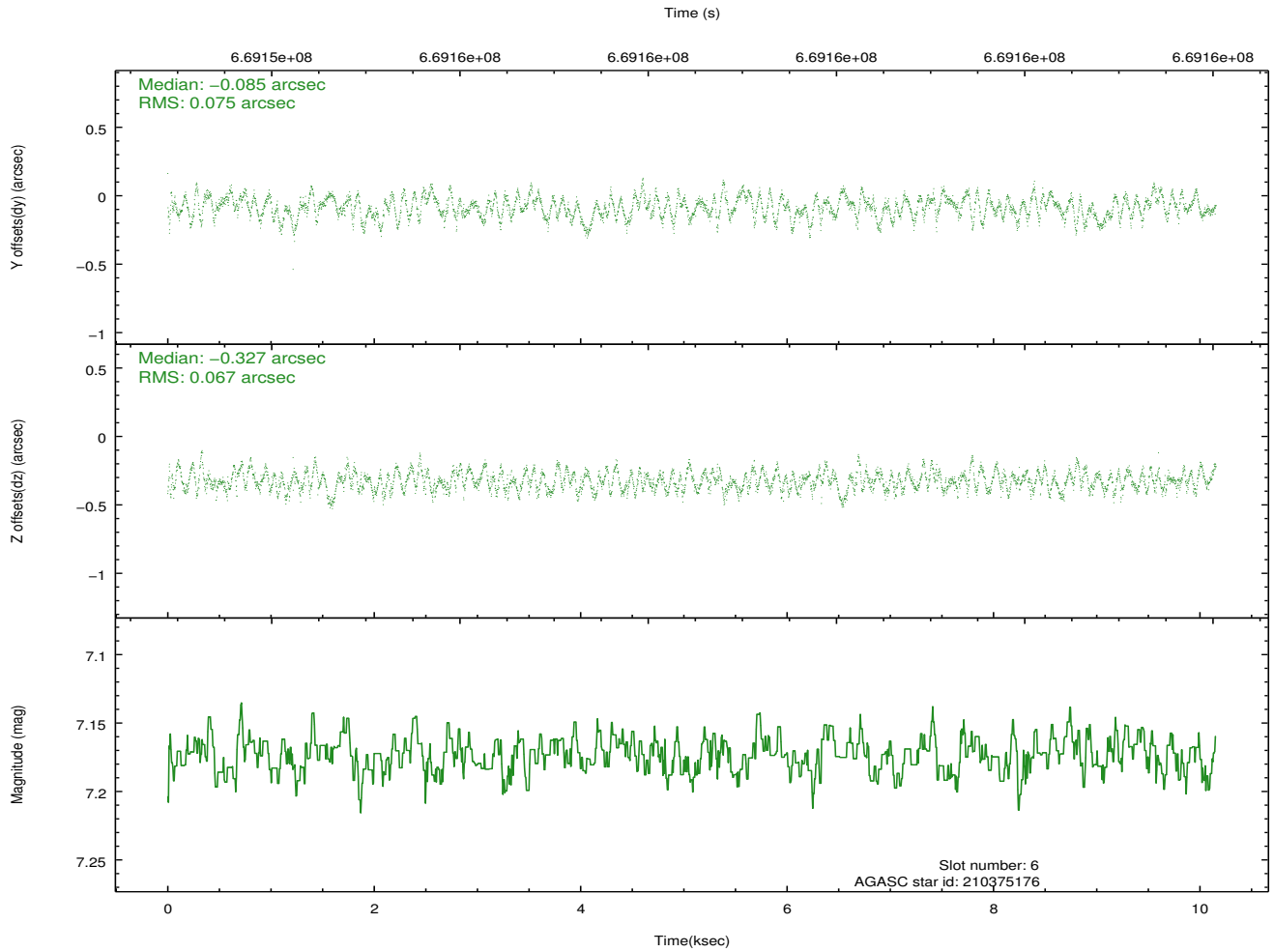
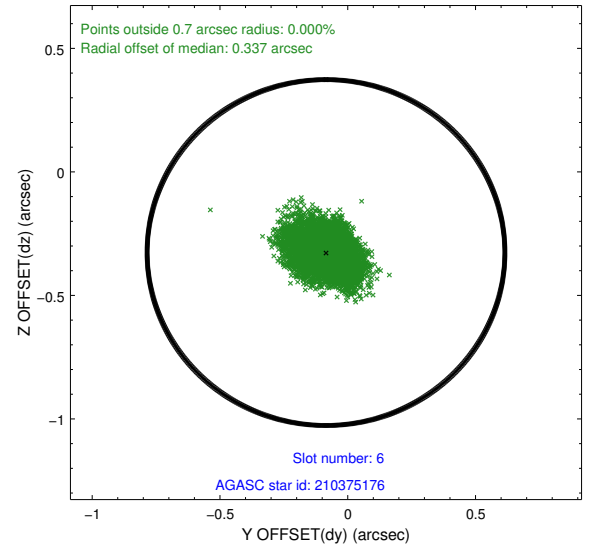
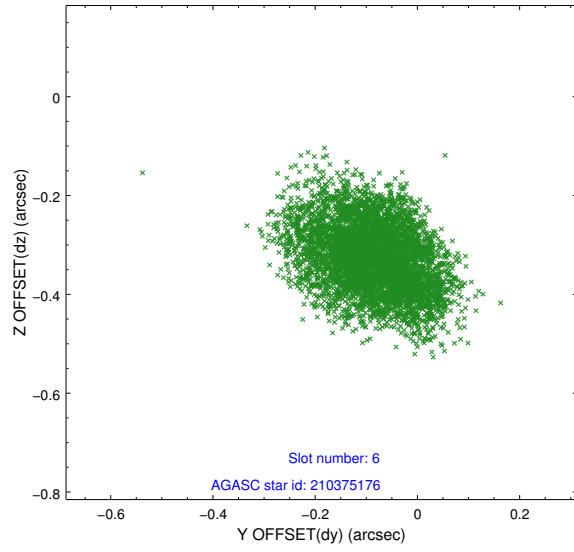
2.4.2 Slot 4



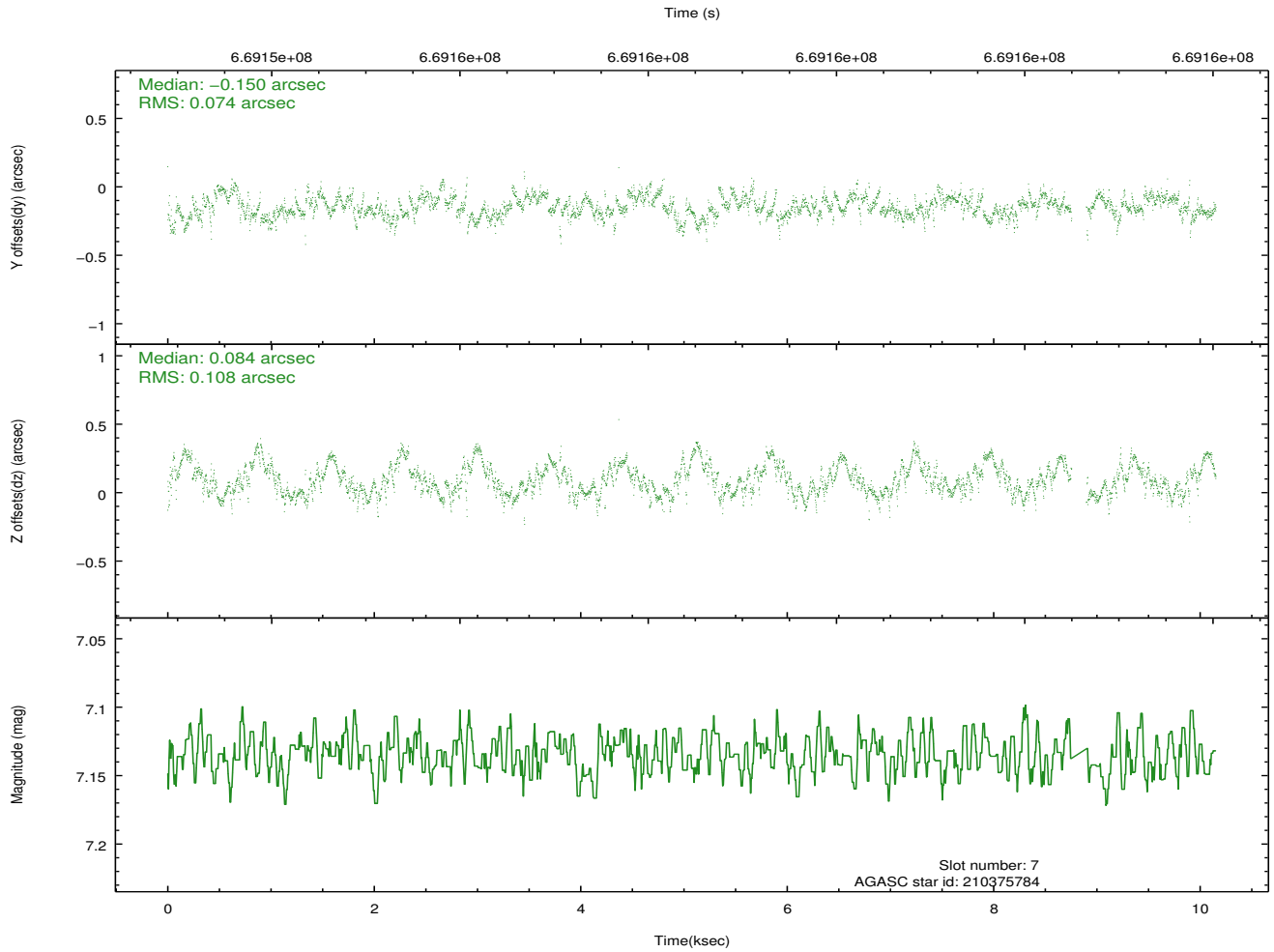
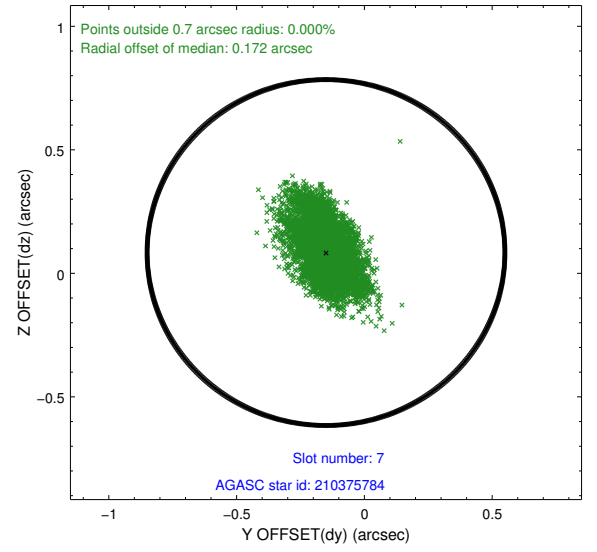
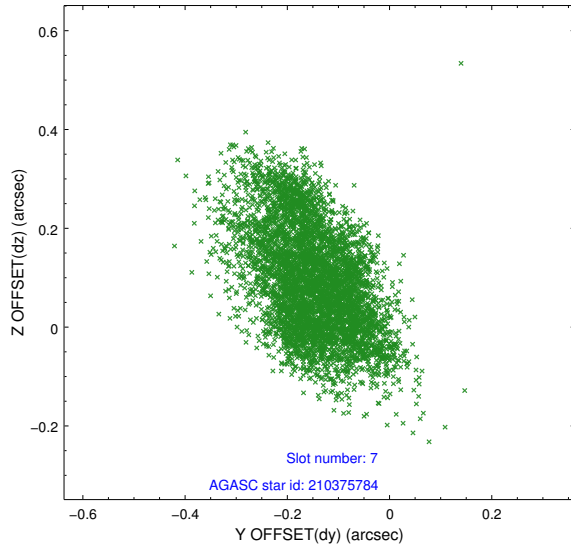
2.4.3 Slot 5



2.4.4 Slot 6

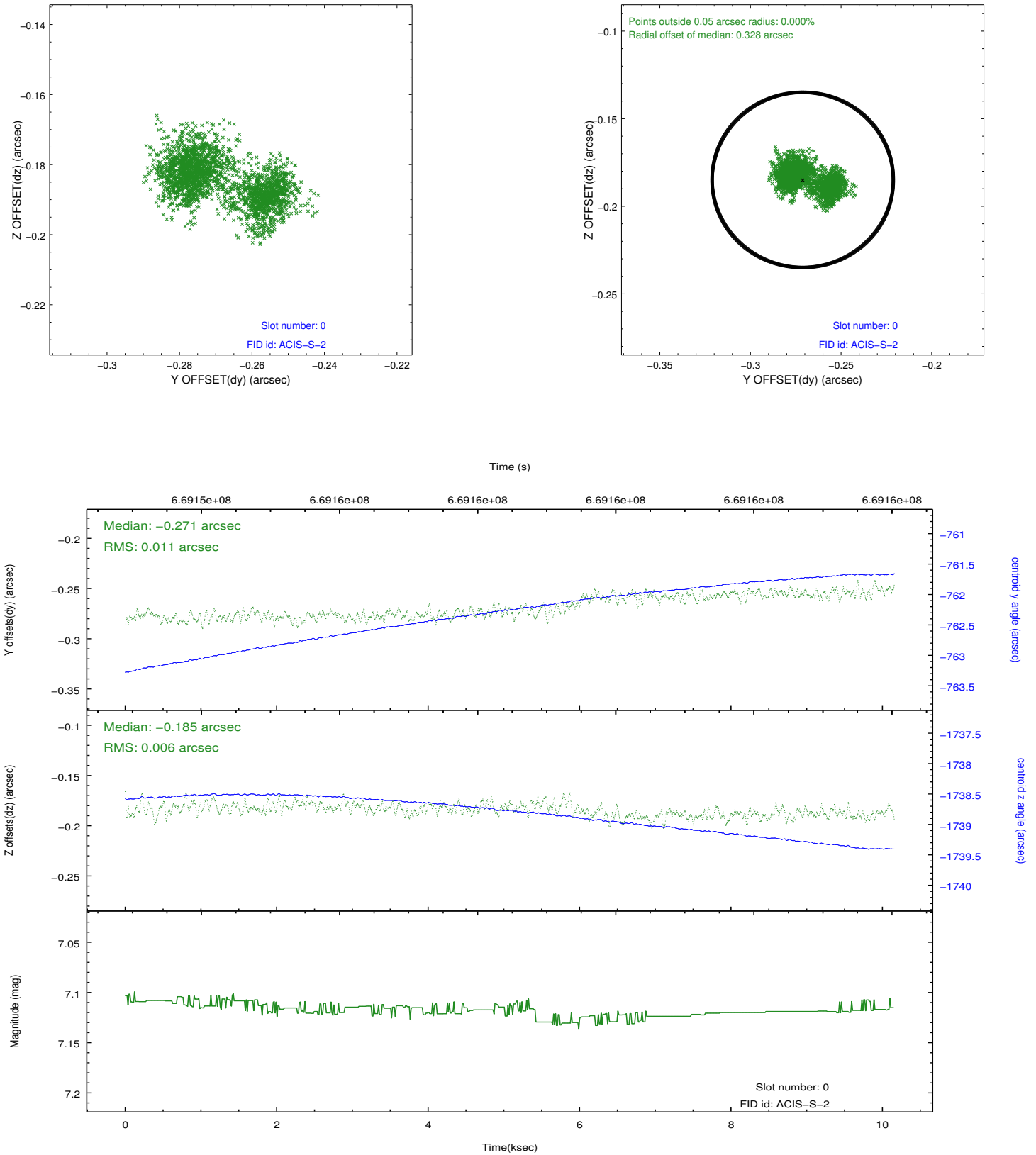


2.4.5 Slot 7

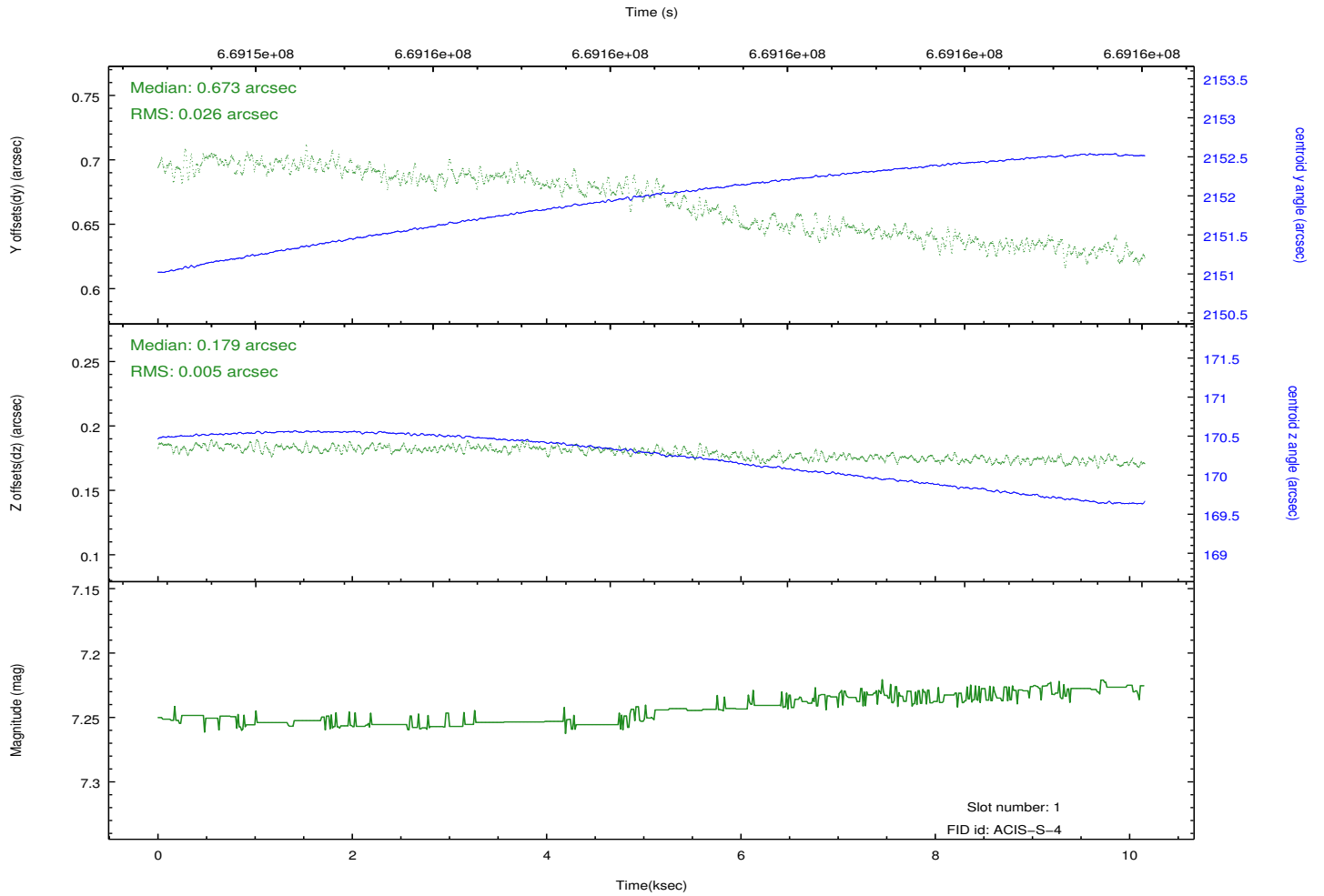
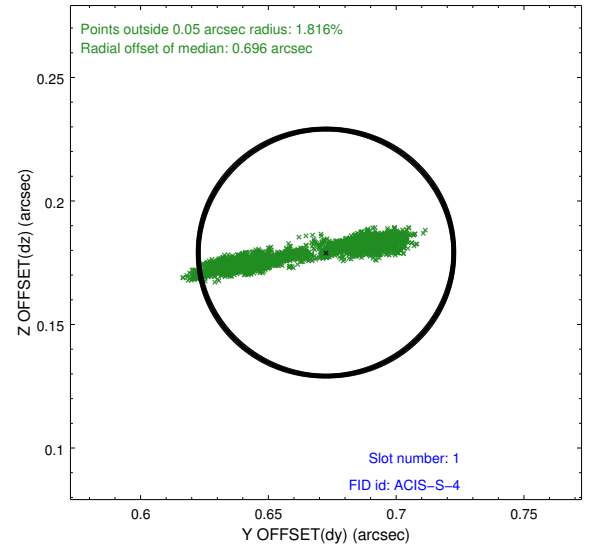
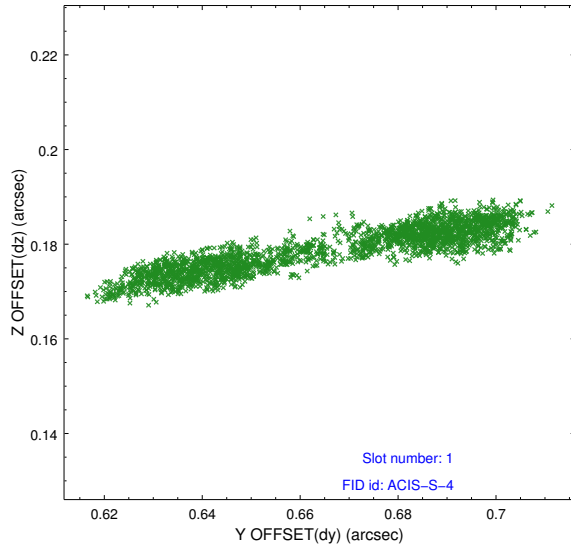


2.5 FID Slots

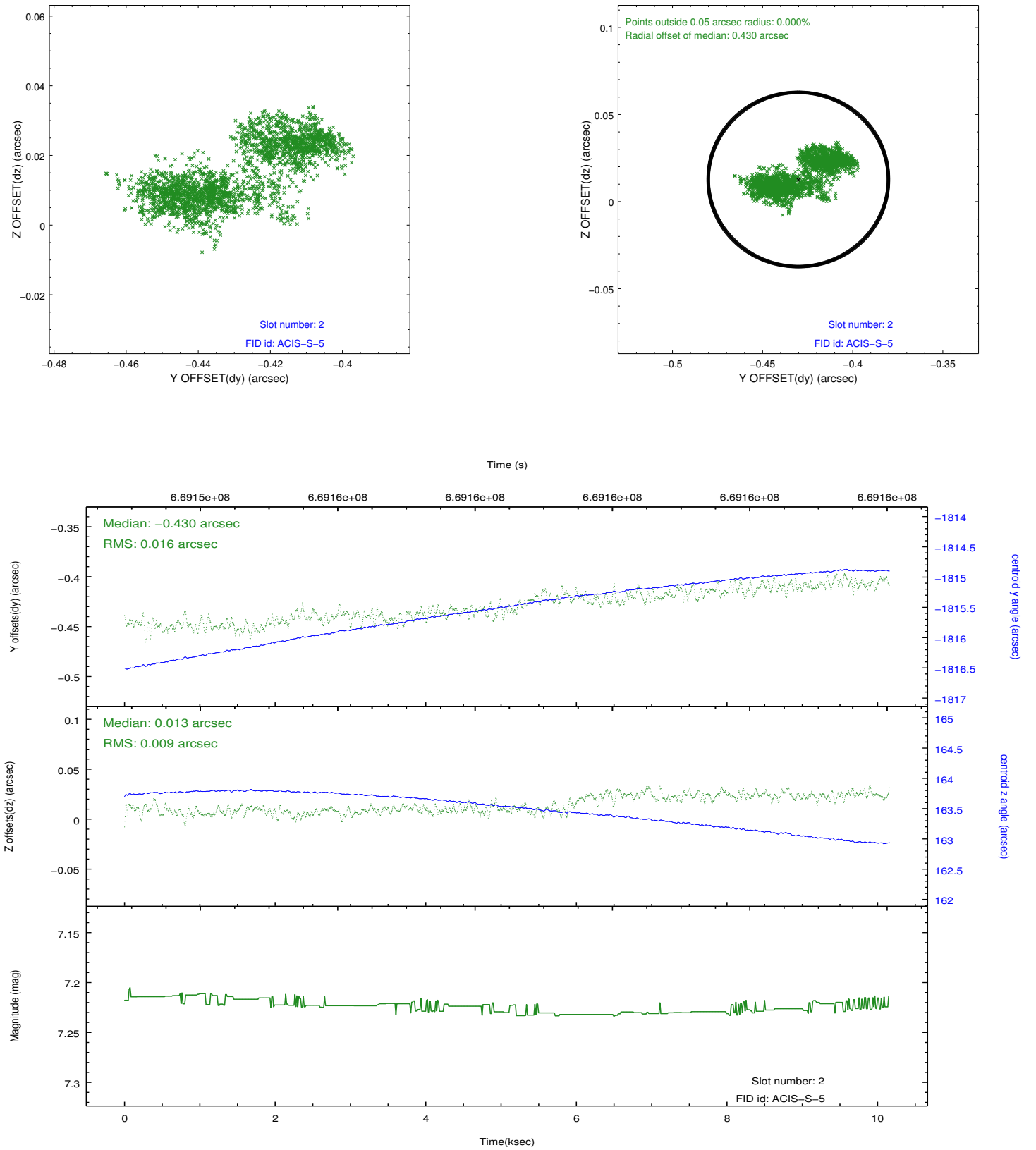
2.5.1 Slot 0



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)	2019.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.090532868862

A.2 Comments