

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22210 - L2 Version 1
Chandra X-Ray Center

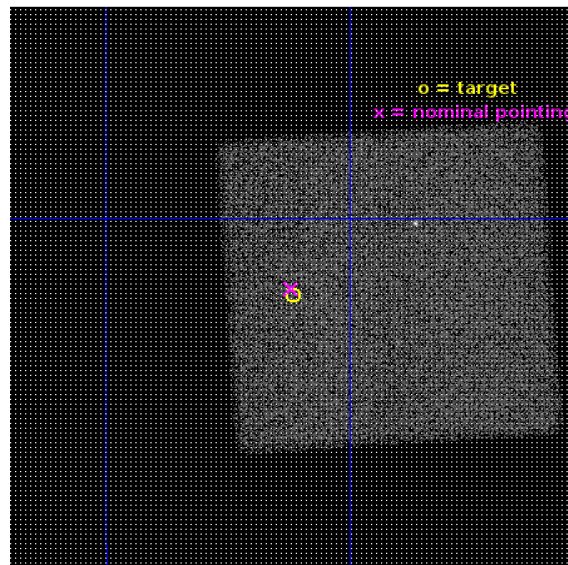
L2 Processing Date : May 5 2019

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1 Front

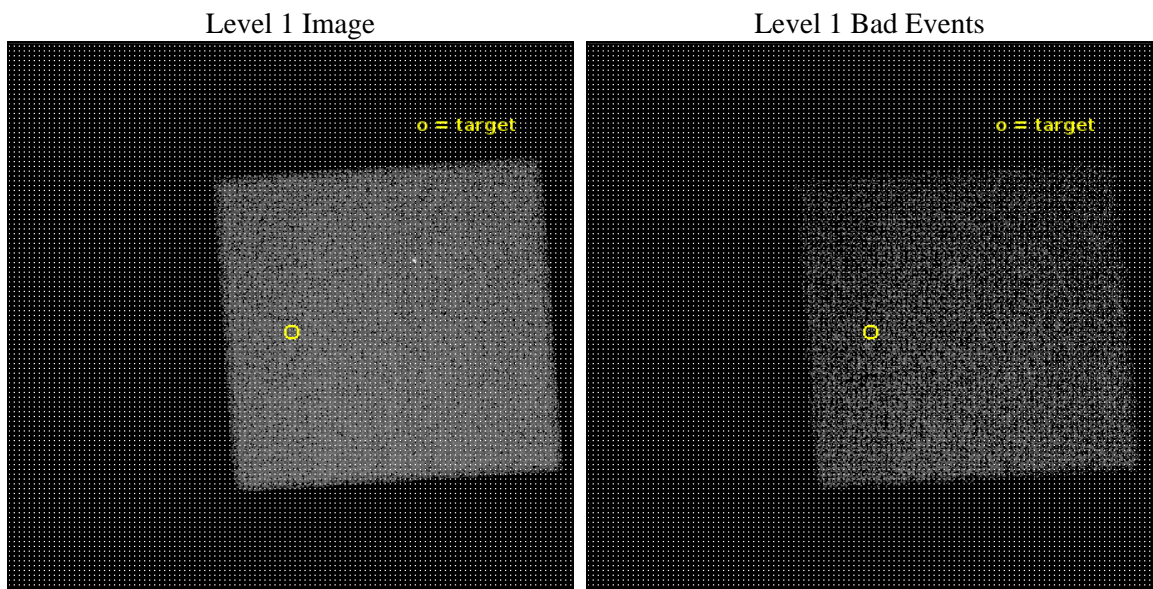
seq_num	703890	Sequence number
obs_id	22210	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	Cen_X4_s6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.653503	Observer's specified target RA [deg]
dec_targ	-31.70182	Observer's specified target Dec [deg]
ra_nom	224.65483928927	Nominal RA [deg]
dec_nom	-31.698759267019	Nominal Dec [deg]
roll_nom	356.15733101642	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20091.0	Sum of GTIs [s]
livetime	19819.864256965	Livetime [s]
ontime7	20091.0	Sum of GTIs [s]
l2events	83469	Number of level 2 events



2 OBI

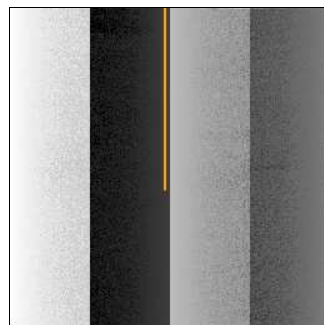
2.1 OBI

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	10.7.1	Processing system revision	ontime	20091.0	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	20091.0	Sum of GTIs [s]
date	2019-05-05T14:00:06	Date and time of file creation	l1events	194757	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	194757
rejected events	109042
rejected %	55%

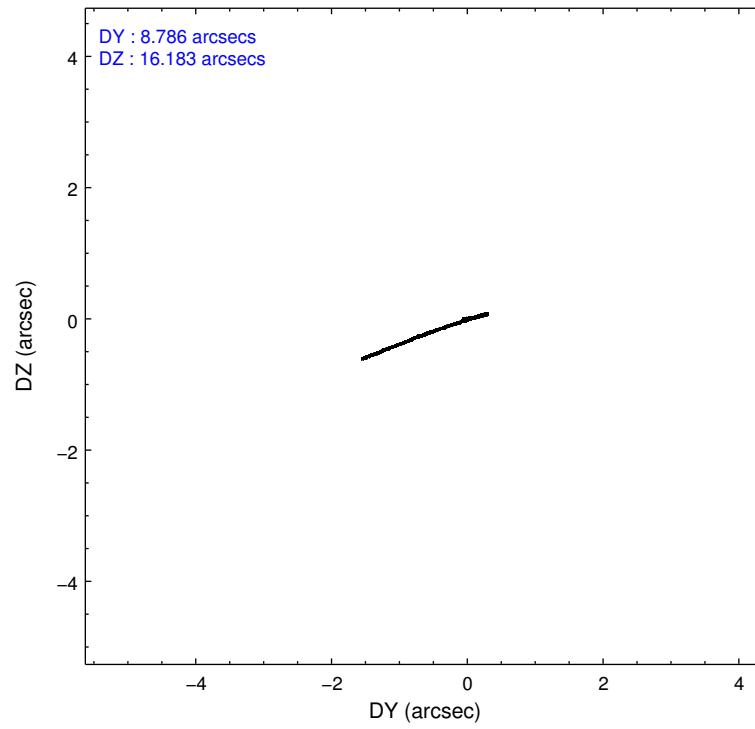
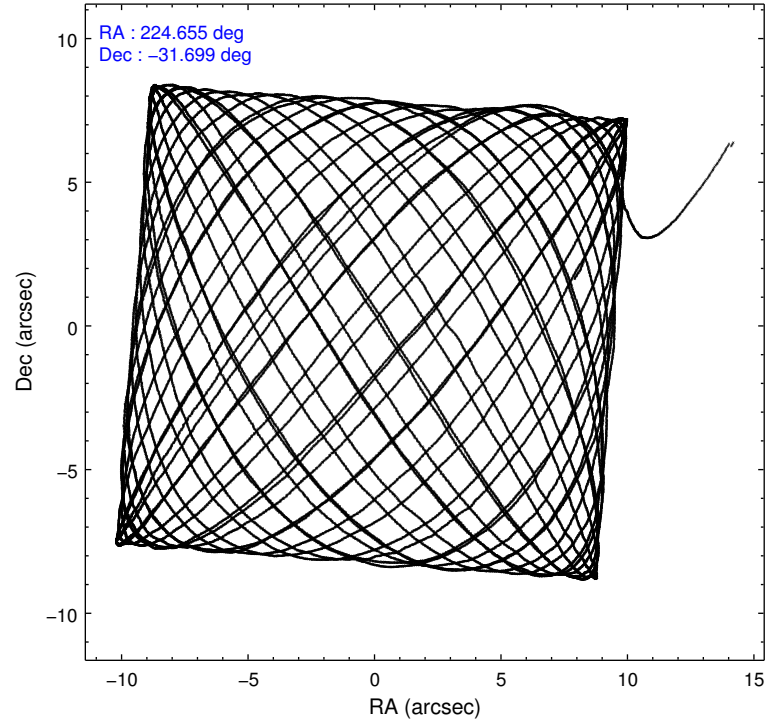
	ccd 7
grade 0 events	7272
	3%
grade 1 events	316
	0%
grade 2 events	18117
	9%
grade 3 events	6801
	3%
grade 4 events	6464
	3%
grade 5 events	18820
	9%
grade 6 events	47073
	24%
grade 7 events	89894
	46%

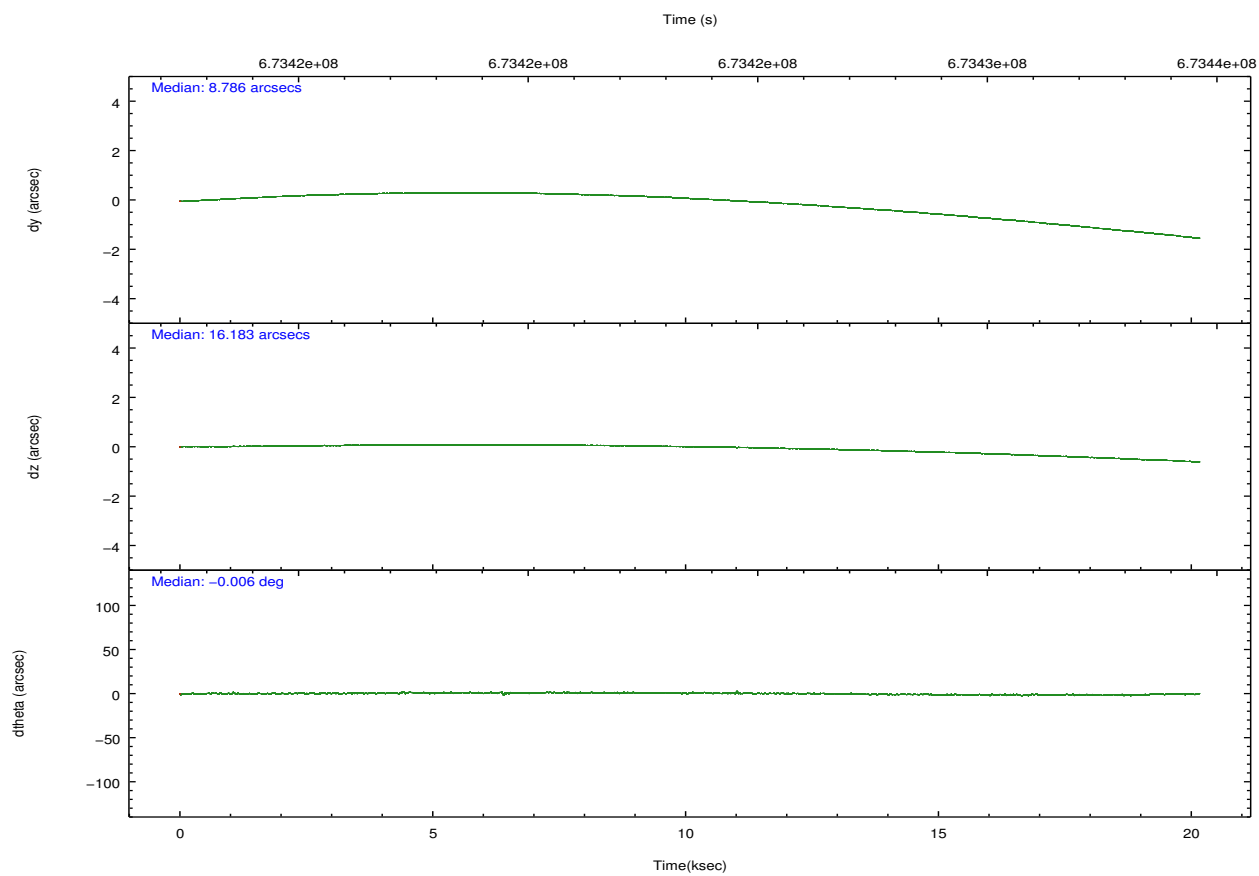
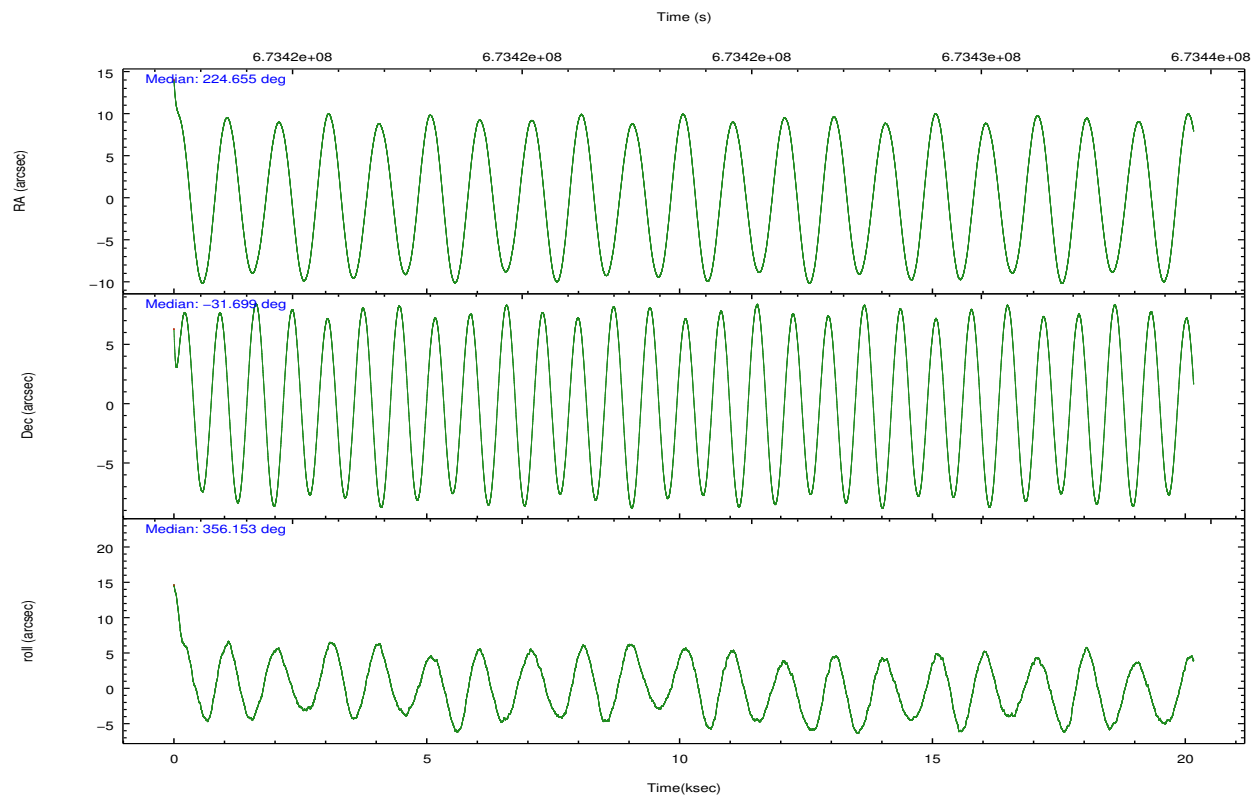
2.2 Compared Parameters

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	224.626048	224.654839289274
[deg] Pointing Dec	-31.711207	-31.69875926701949
[deg] Pointing Roll	355.985566	356.1573310164245
[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)	673413596.184000	673412280.40336
Observation start date	2019-05-05T03:18:47	2019-05-05T02:58:00
[s] Observation end time (MET)	673433596.184000	673434948.79222
Observation end date	2019-05-05T08:52:07	2019-05-05T09:15:48
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



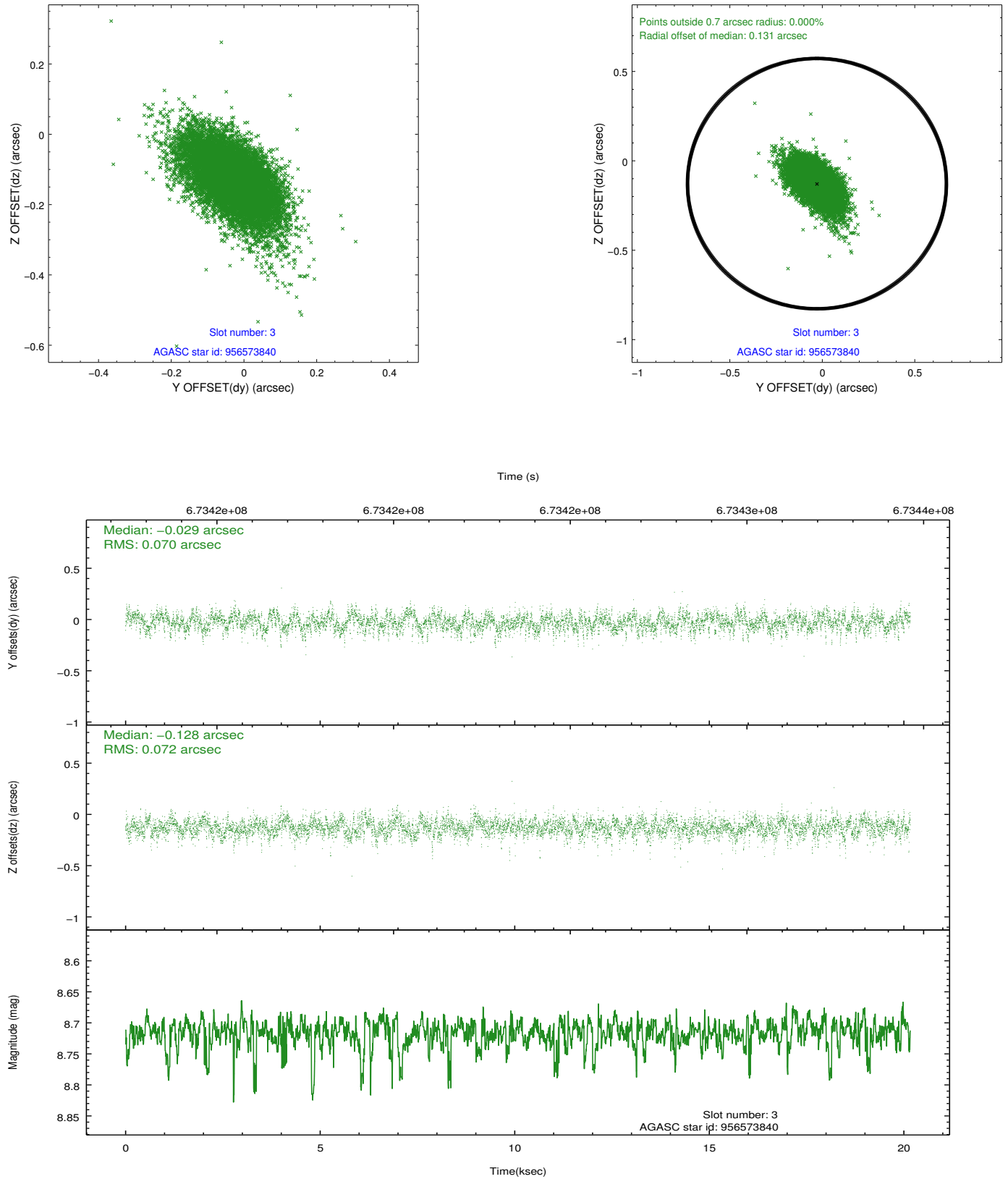


Slot Statistics

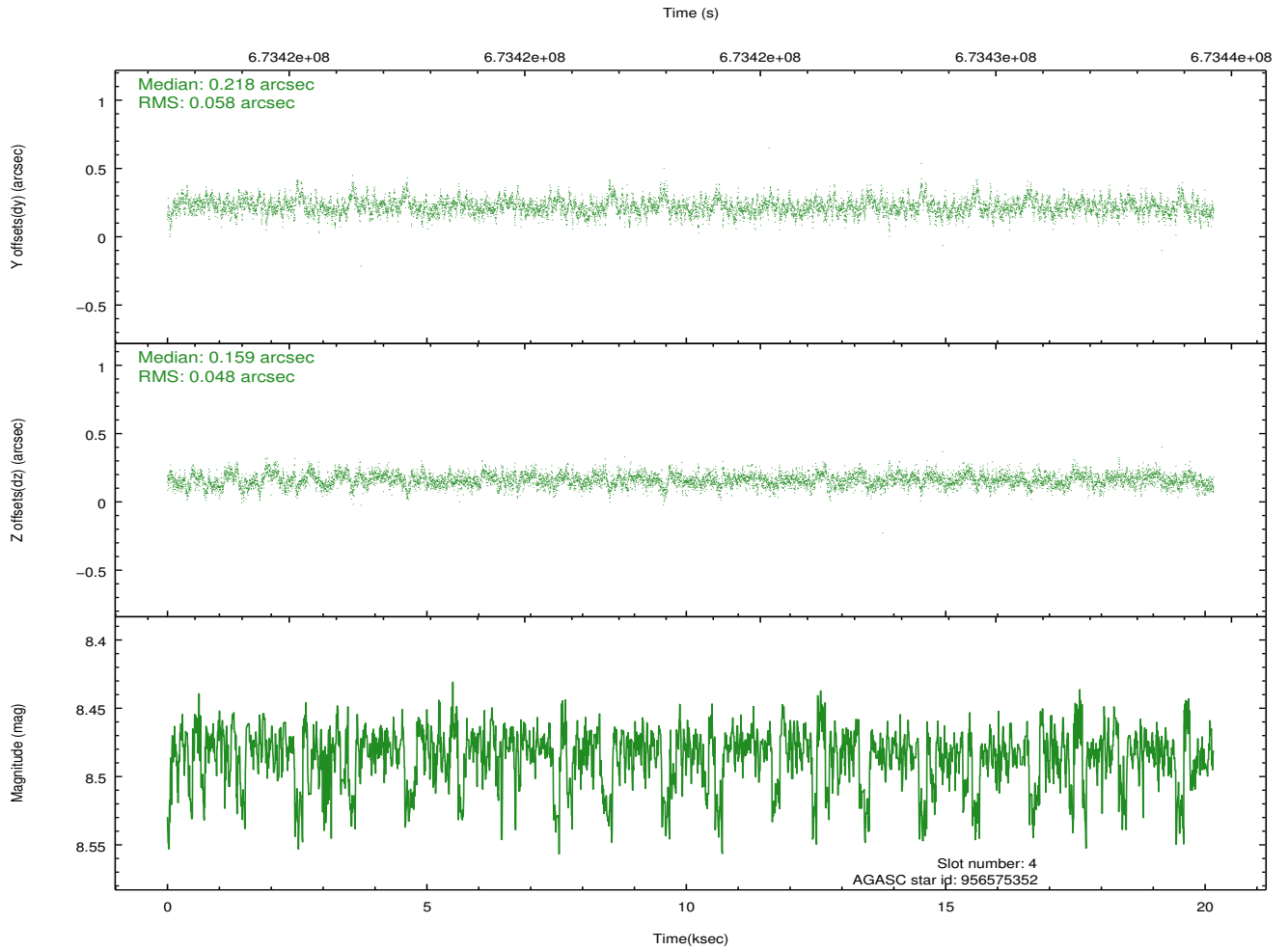
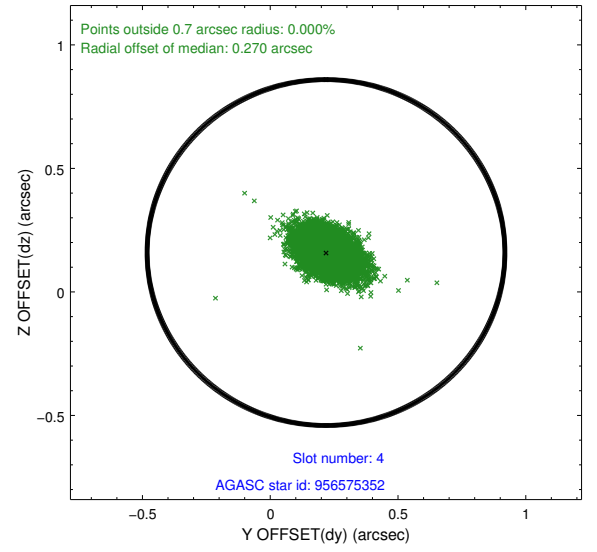
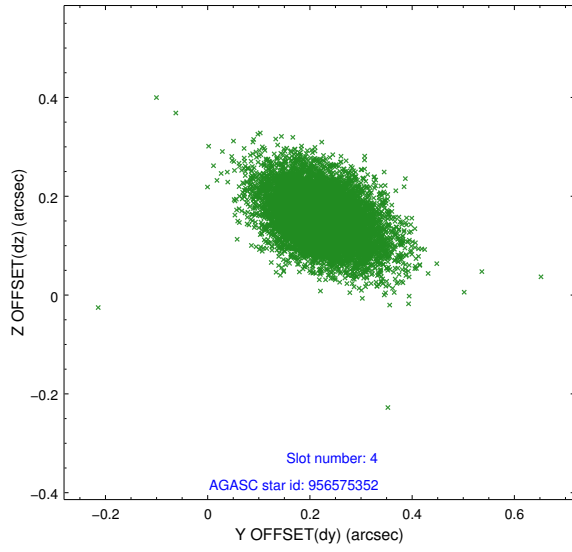
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	4918	1.000	-0.265	-0.125	0.012	0.021	0.000000	0.000000	-761.55	-1737
1	FID		ACIS-S-4	7.21	4919	1.000	0.640	0.162	0.015	0.036	0.000000	0.000000	2152.47	171
2	FID		ACIS-S-5	7.18	4919	1.000	-0.408	-0.027	0.019	0.055	0.000000	0.000000	-1814.36	164
3	GUIDE	used	956573840	8.72	9821	1.000	-0.029	-0.128	0.101	0.180	223.997560	-31.088122	-2089.89	2095
4	GUIDE	used	956575352	8.48	9830	1.000	0.218	0.159	0.076	0.135	223.873030	-31.529443	-2350.08	483
5	GUIDE	used	956577088	8.20	9832	1.000	0.200	0.166	0.089	0.155	224.540686	-31.774008	-244.76	-243
6	GUIDE	used	957091448	7.77	9832	1.000	-0.092	0.244	0.081	0.149	224.977023	-32.370724	1231.44	-2295
7	GUIDE	used	958277040	8.88	9829	1.000	-0.301	-0.432	0.101	0.160	225.059014	-31.205389	1202.02	1906

2.4 Star Slots

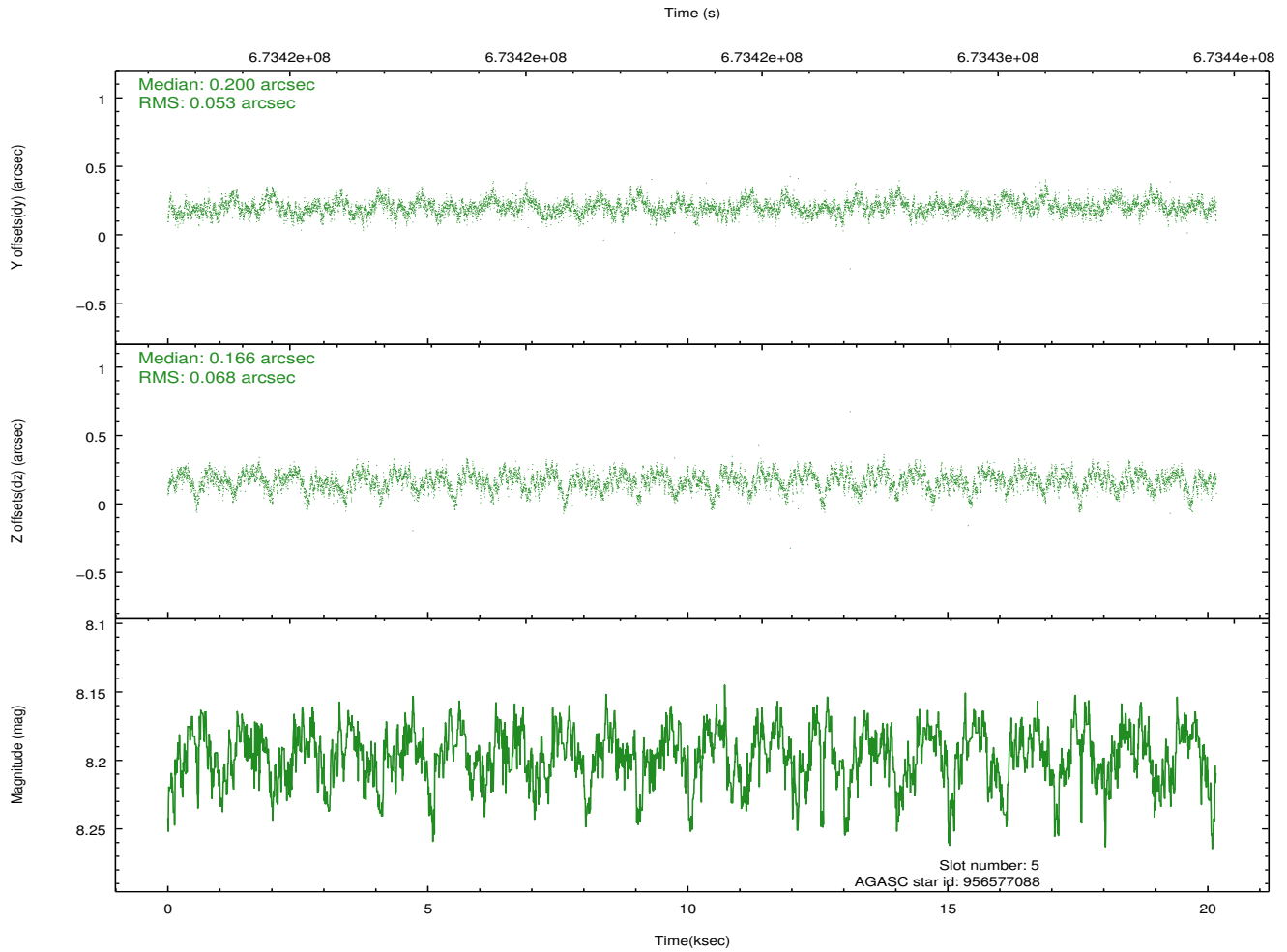
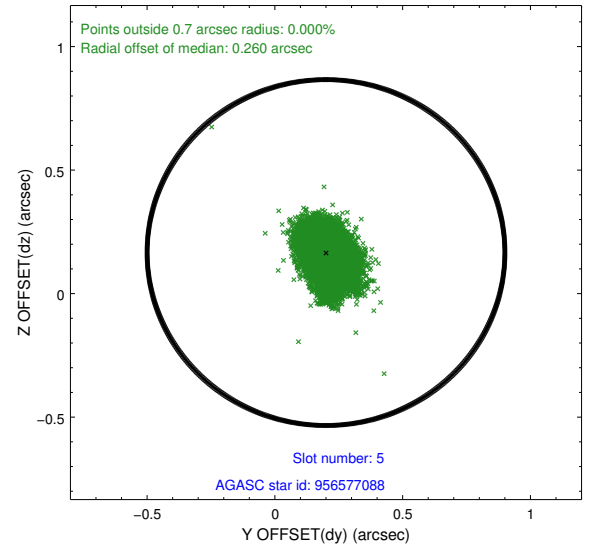
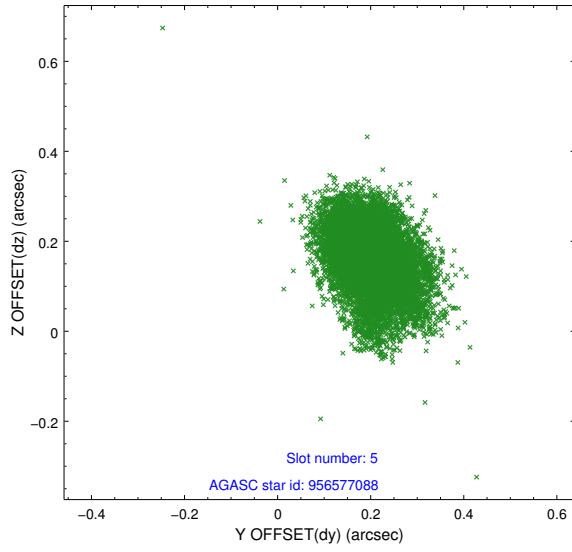
2.4.1 Slot 3



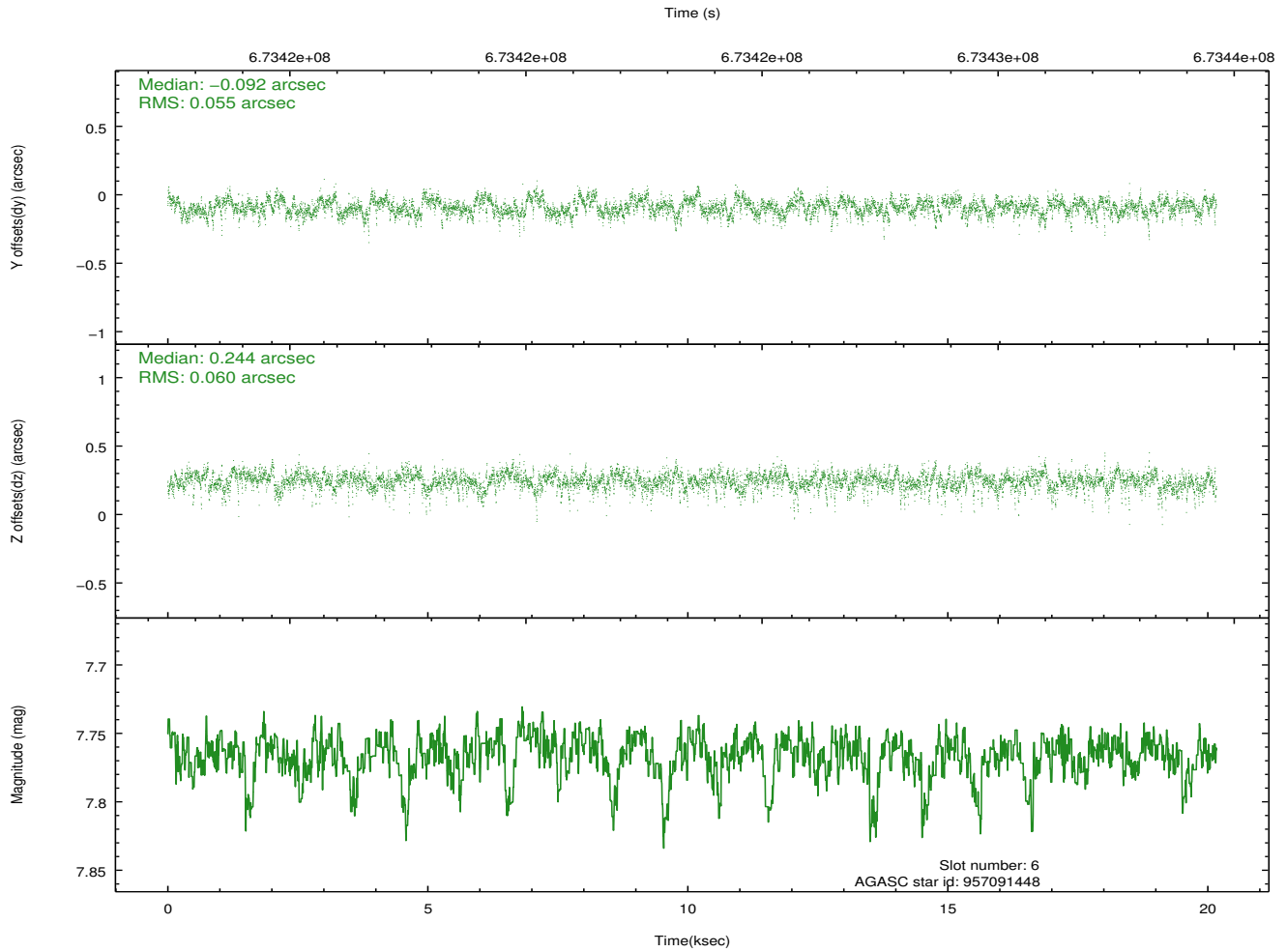
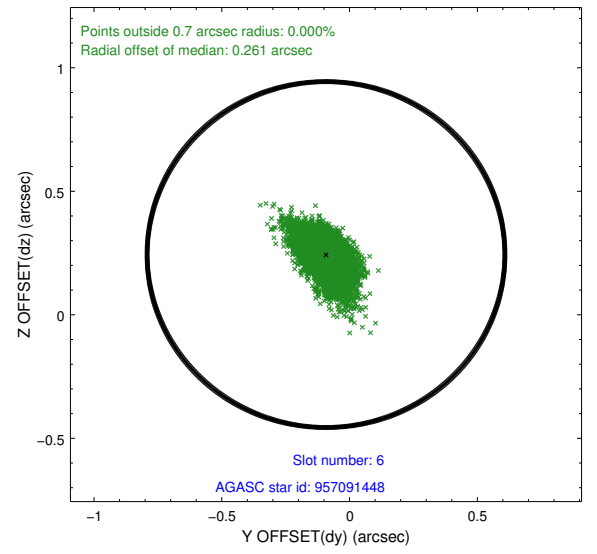
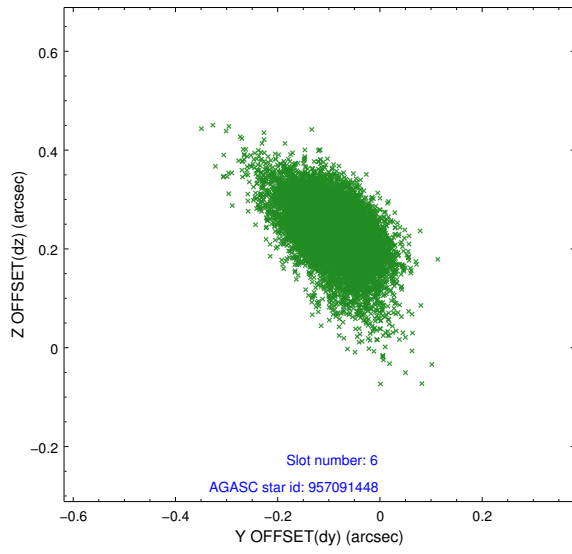
2.4.2 Slot 4



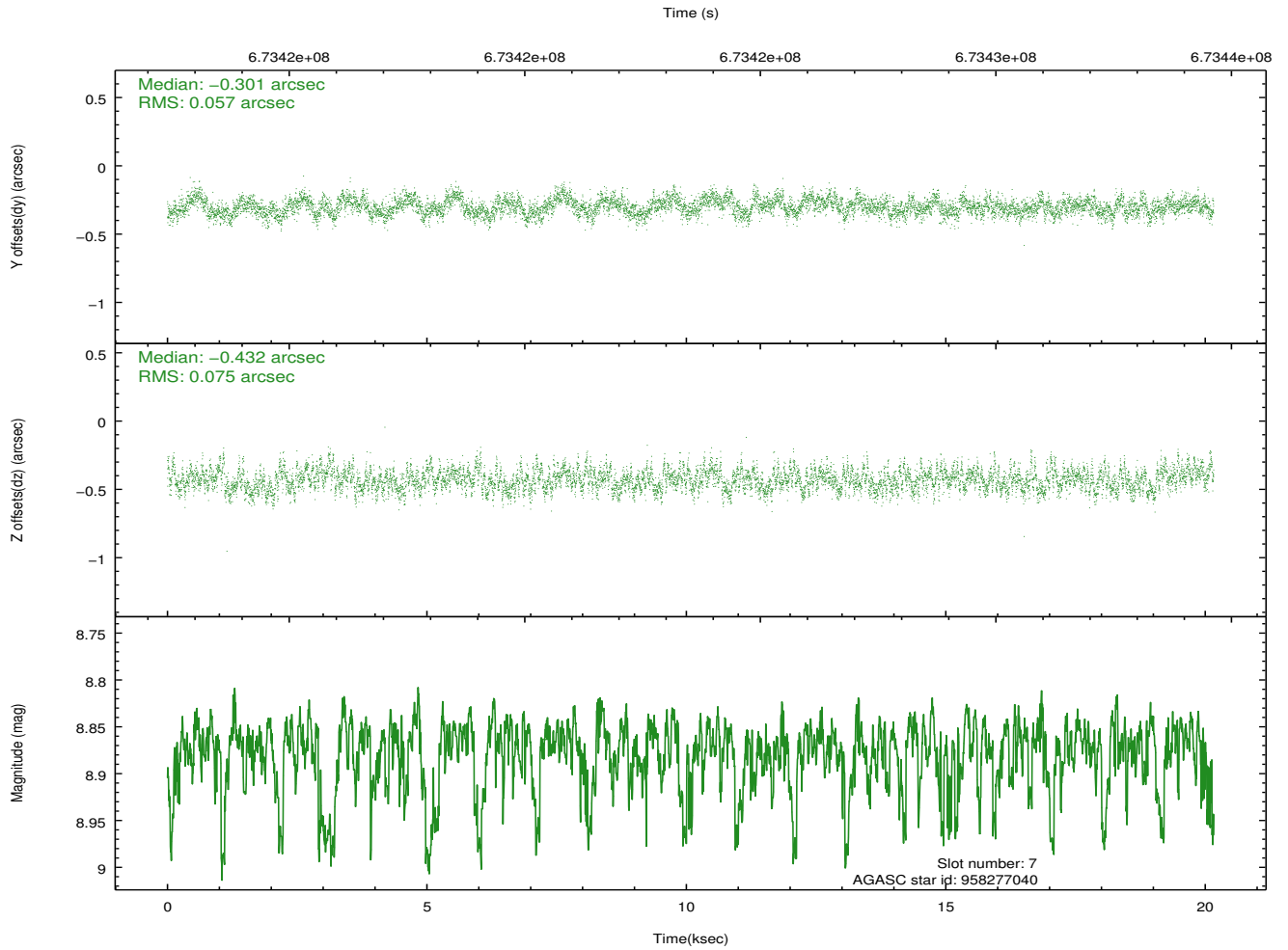
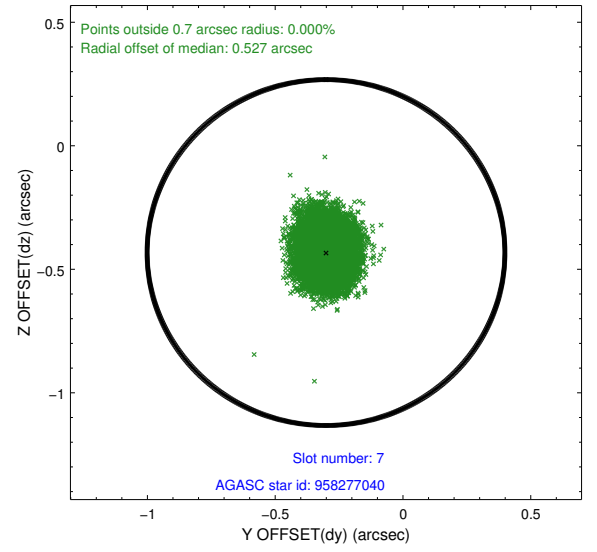
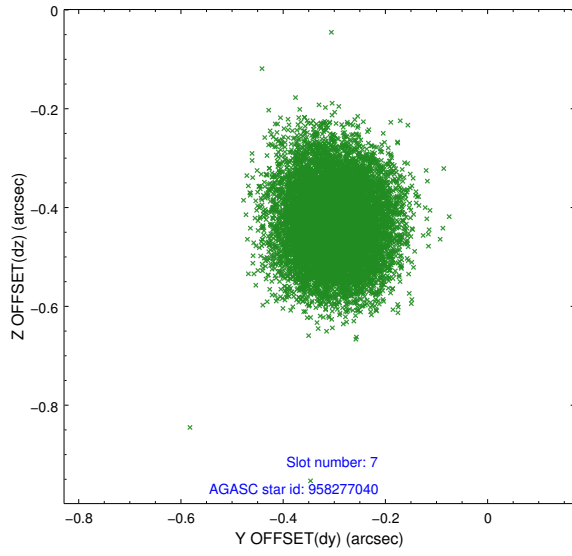
2.4.3 Slot 5



2.4.4 Slot 6

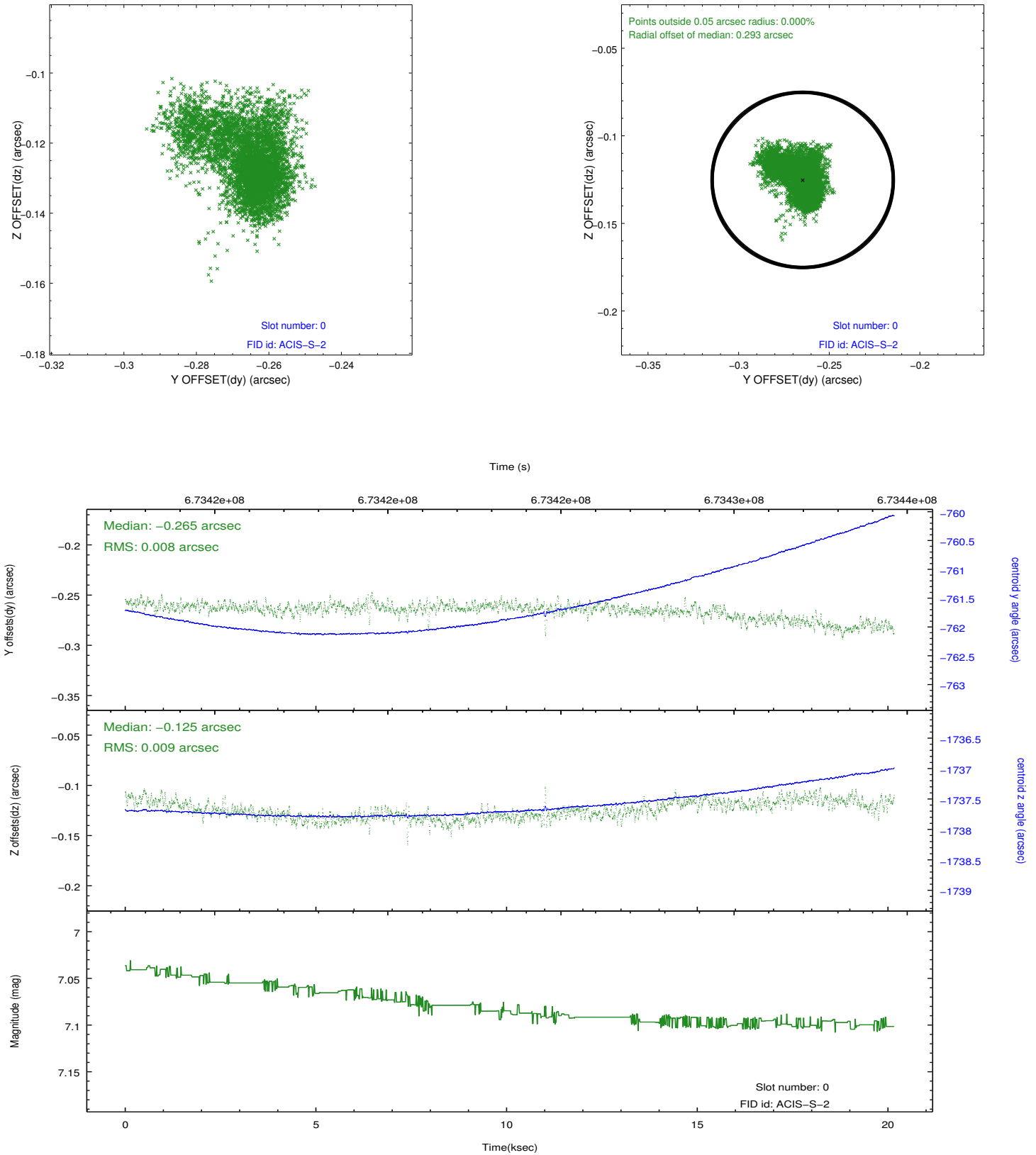


2.4.5 Slot 7

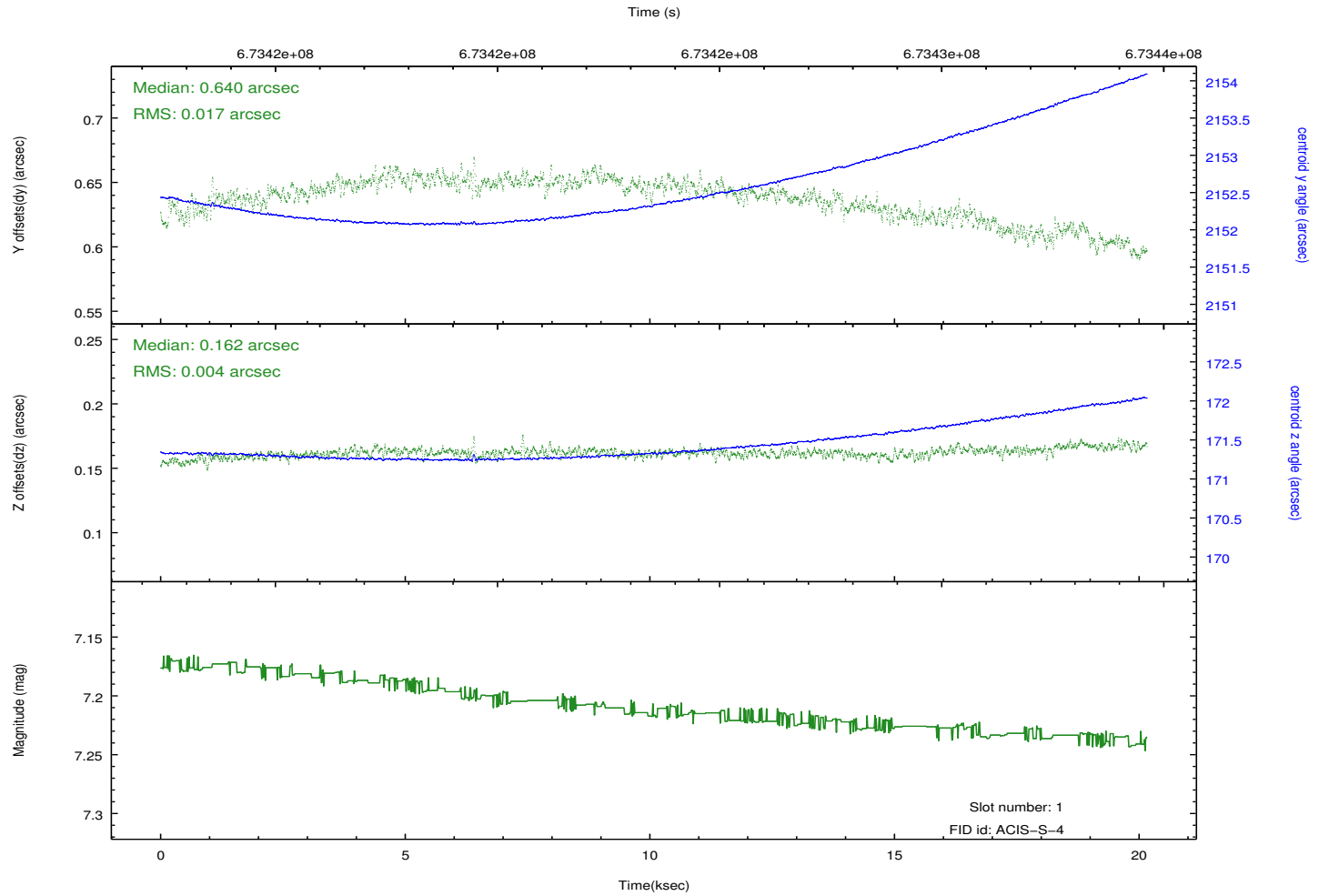
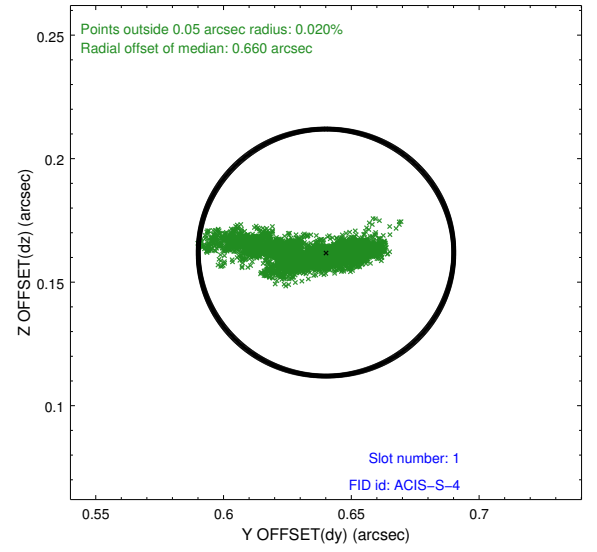
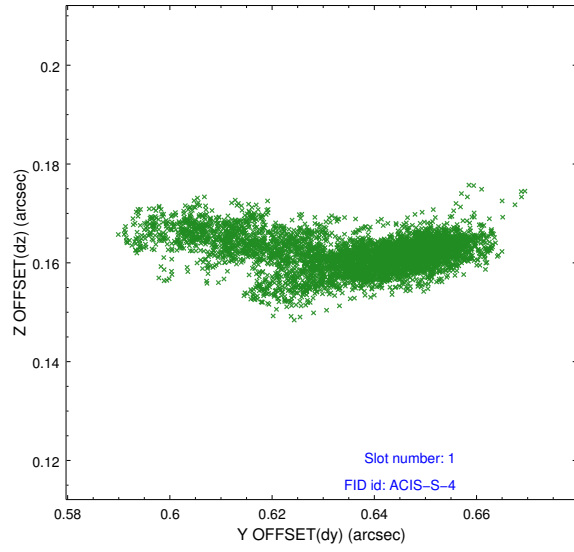


2.5 FID Slots

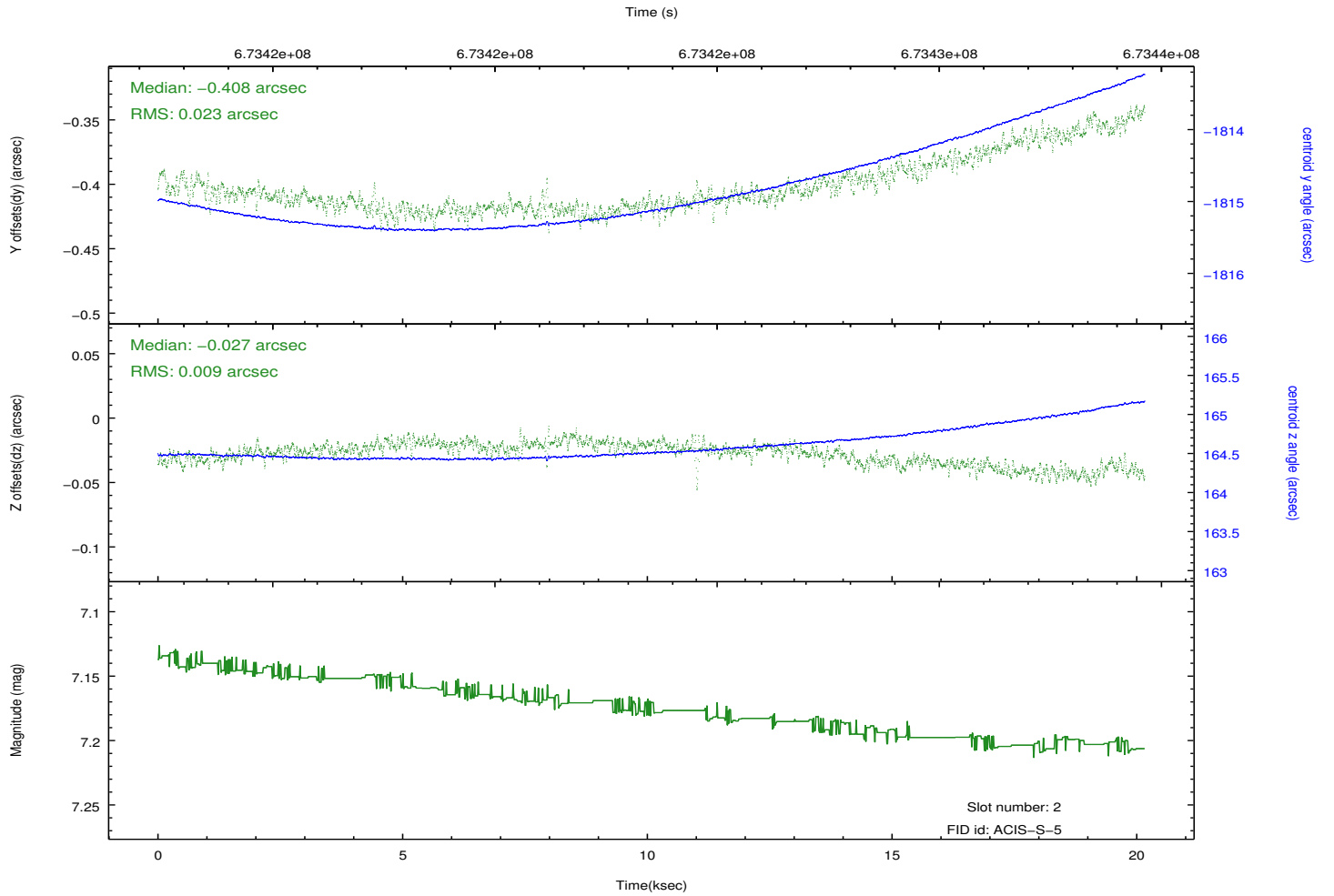
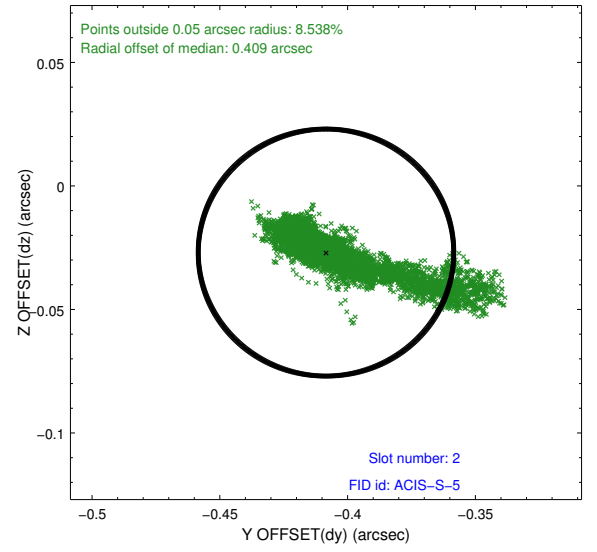
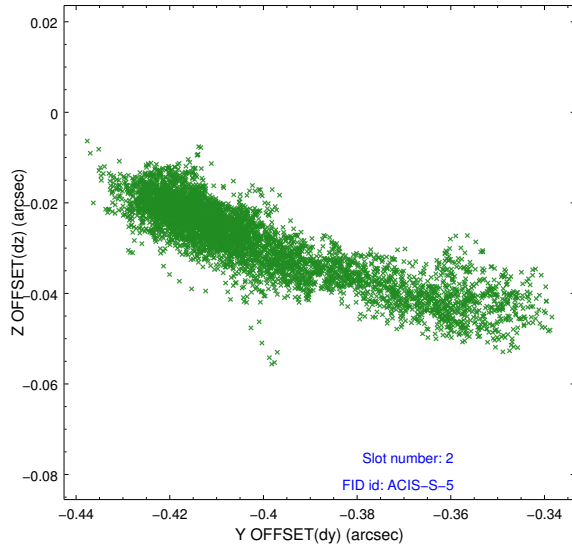
2.5.1 Slot 0



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)	2019.05.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.091

A.2 Comments