

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22251 - L2 Version 1
Chandra X-Ray Center

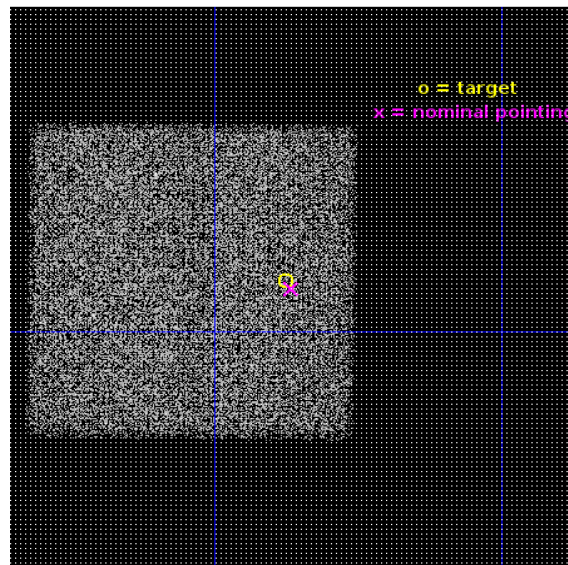
L2 Processing Date : Jun 6 2019

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1 Front

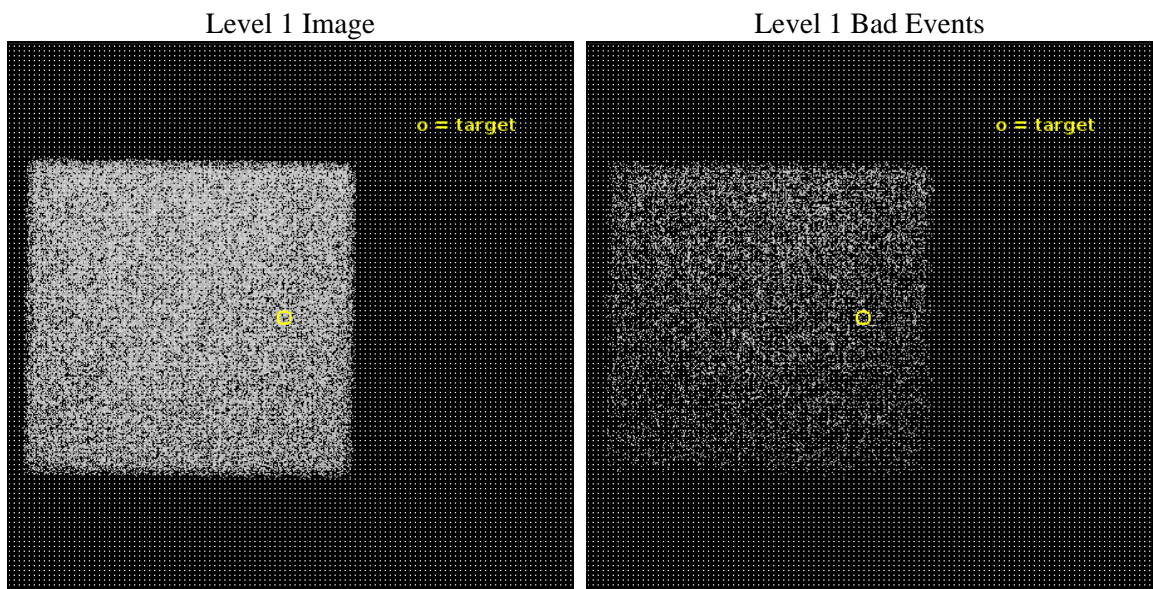
seq_num	703902	Sequence number
obs_id	22251	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	NGC6240_s3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	253.218979	Observer's specified target RA [deg]
dec_targ	2.52349	Observer's specified target Dec [deg]
ra_nom	253.21659773804	Nominal RA [deg]
dec_nom	2.5196199758718	Nominal Dec [deg]
roll_nom	180.72885935719	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10091.207585454	Sum of GTIs [s]
livetime	9955.0228725574	Livetime [s]
ontime7	10091.207585454	Sum of GTIs [s]
l2events	42450	Number of level 2 events



2 OBI

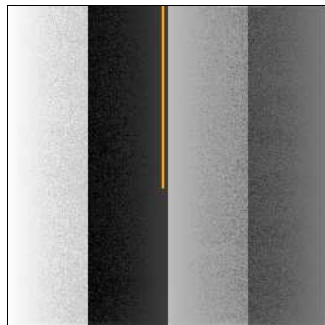
2.1 OBI

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	10091.207585454	Sum of GTIs [s]
caldsver	4.8.3	 	ontime7	10091.207585454	Sum of GTIs [s]
date	2019-06-06T15:33:22	Date and time of file creation	l1events	98013	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	98013
rejected events	54417
rejected %	55%

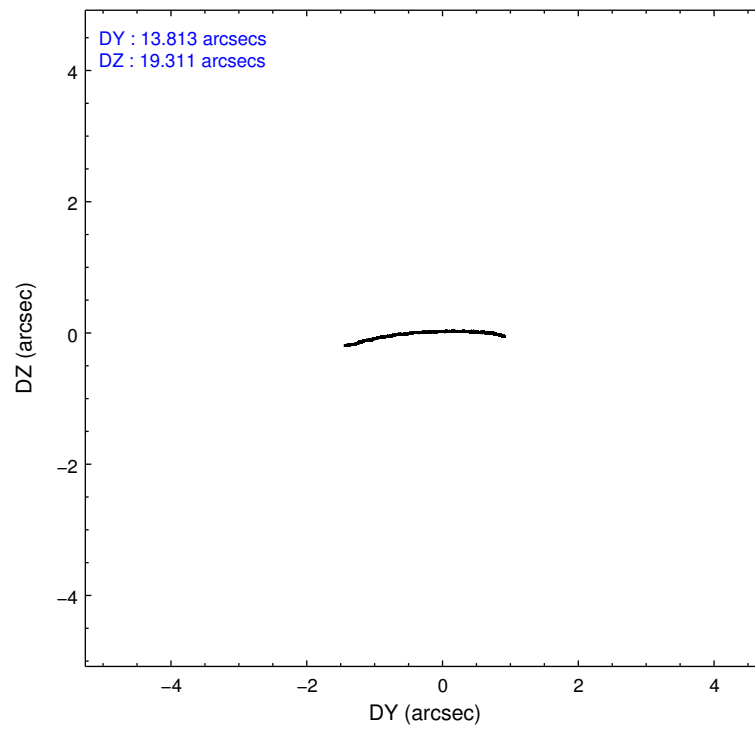
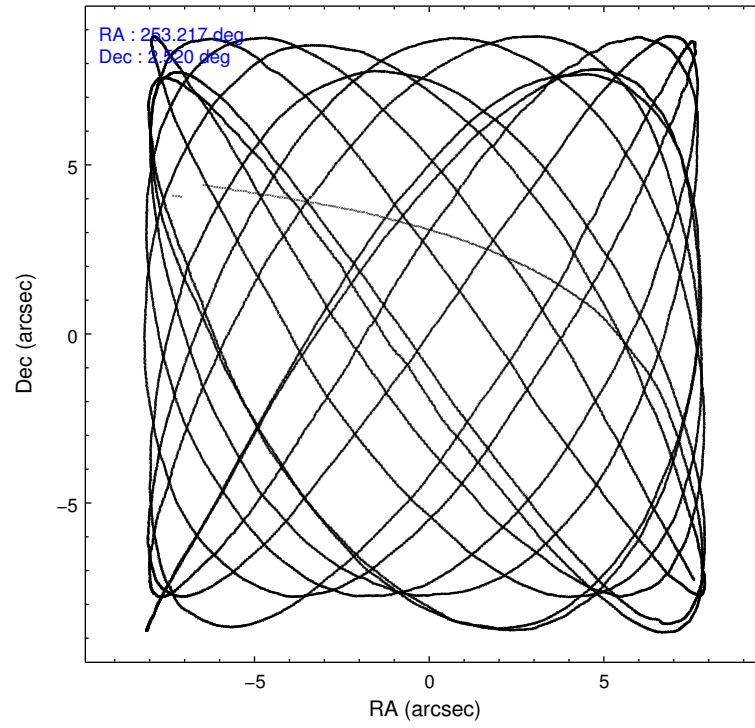
	ccd 7
grade 0 events	3728
	3%
grade 1 events	129
	0%
grade 2 events	9549
	9%
grade 3 events	3486
	3%
grade 4 events	3397
	3%
grade 5 events	9652
	9%
grade 6 events	23453
	23%
grade 7 events	44619
	45%

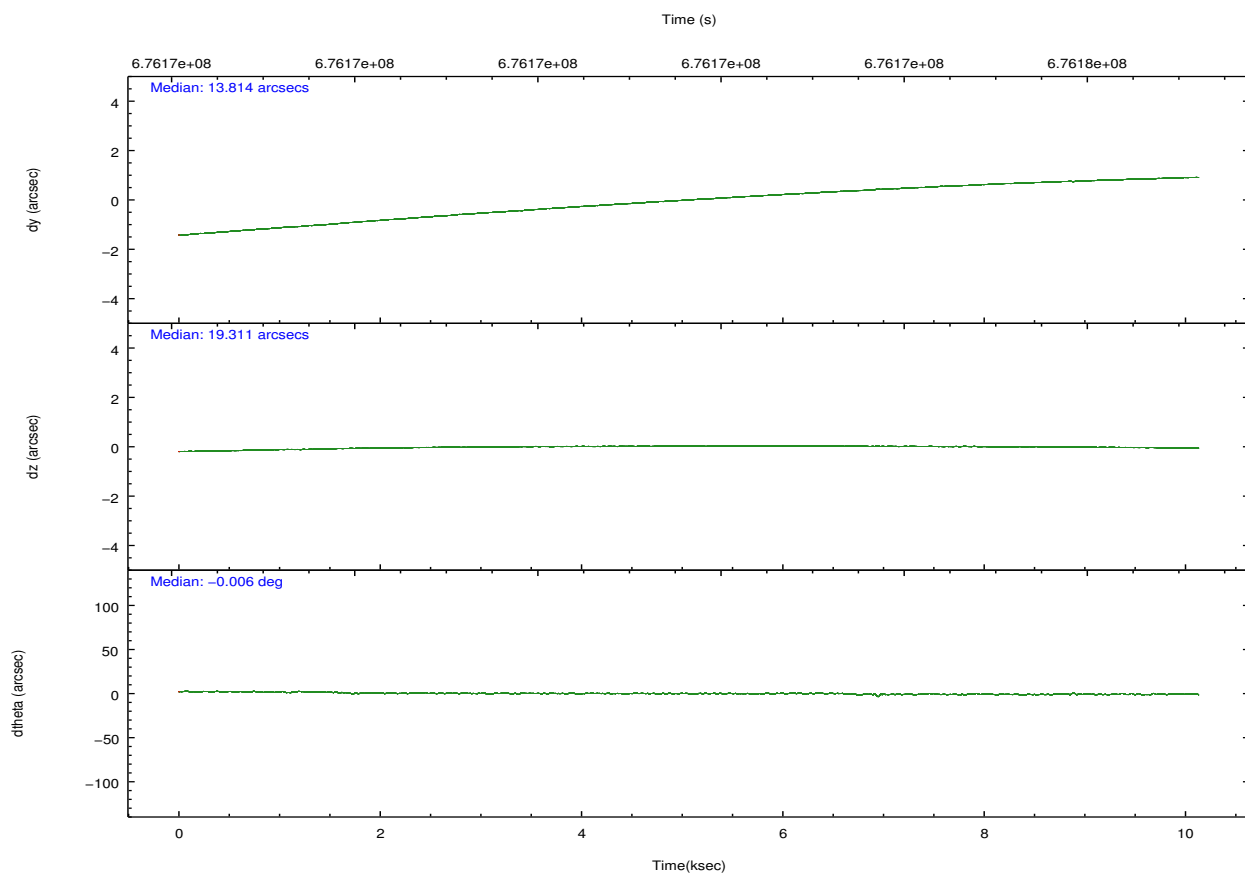
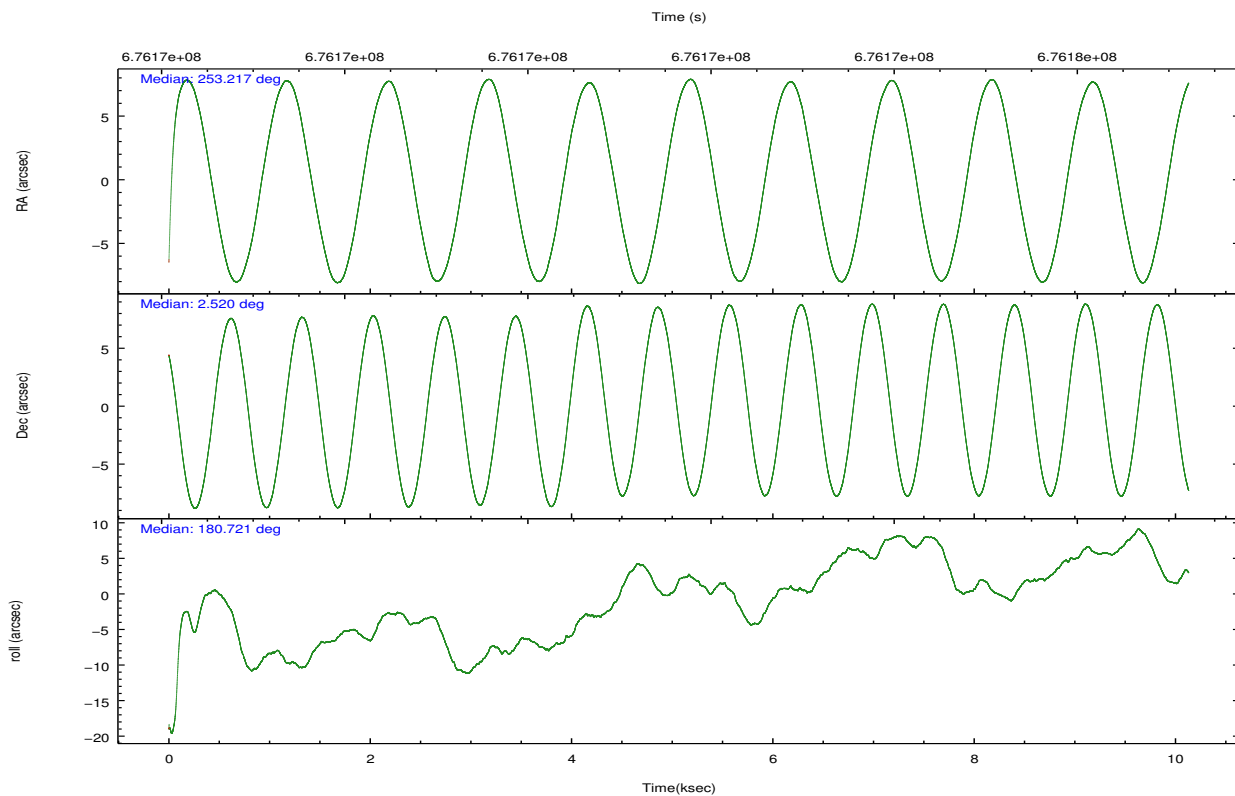
2.2 Compared Parameters

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	253.240014	253.2165977380425
[deg] Pointing Dec	2.533976	2.519619975871798
[deg] Pointing Roll	180.571216	180.7288593571932
[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)	676166687.184000	676165669.39338
Observation start date	2019-06-06T00:03:38	2019-06-05T23:47:49
[s] Observation end time (MET)	676176687.184000	676178214.8816299
Observation end date	2019-06-06T02:50:18	2019-06-06T03:16:54
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



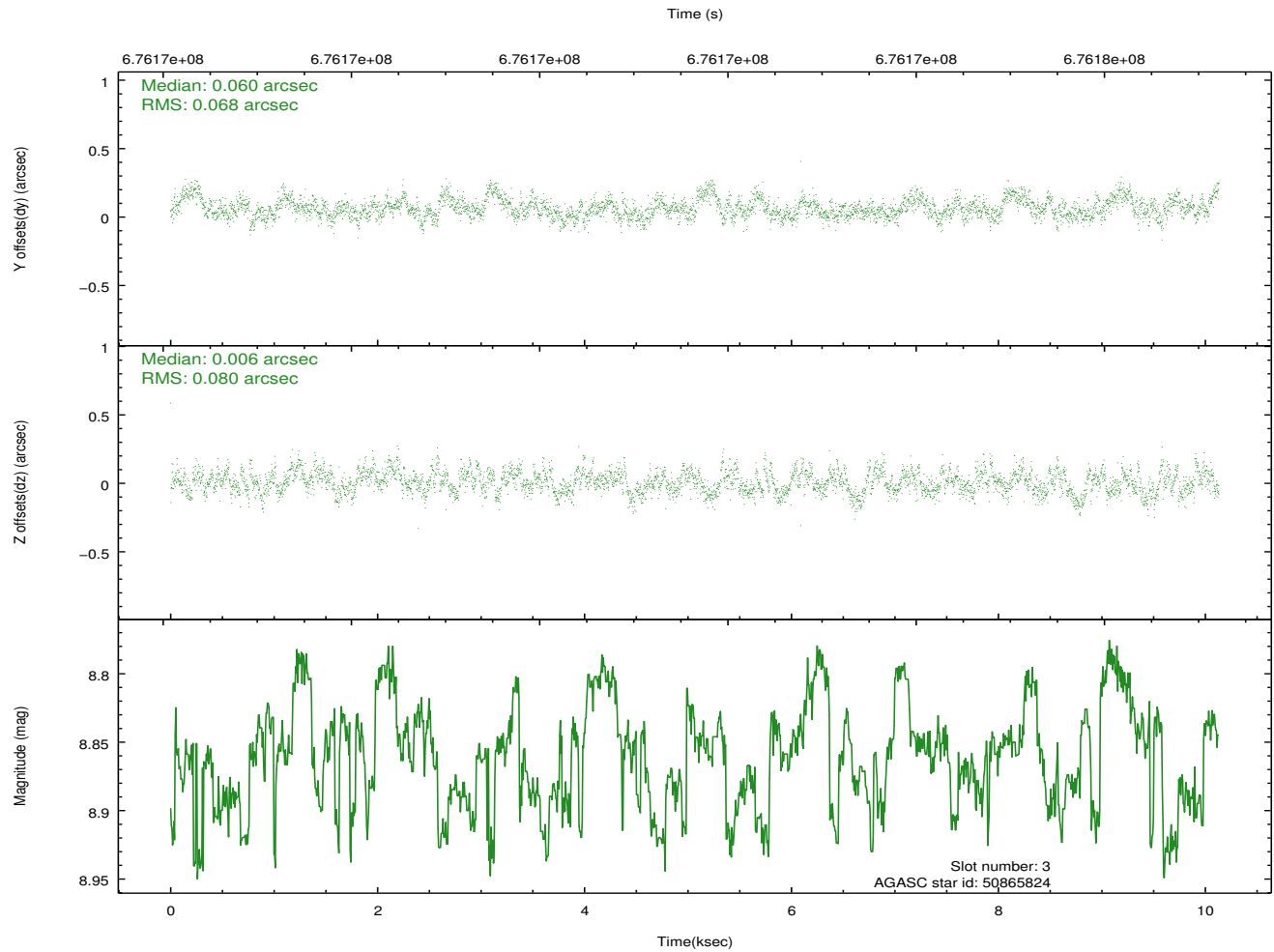
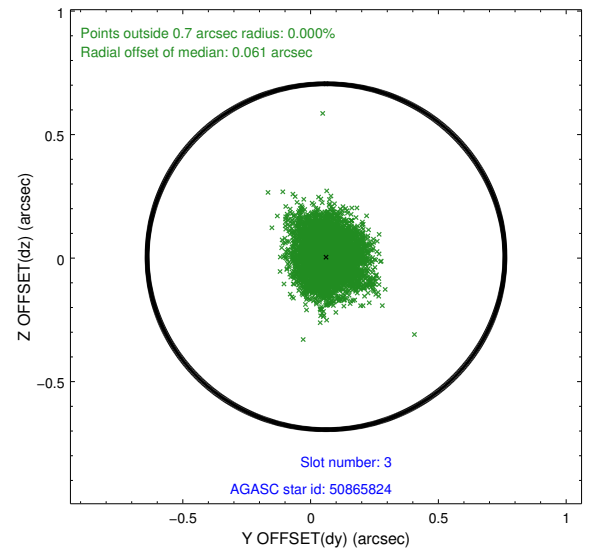
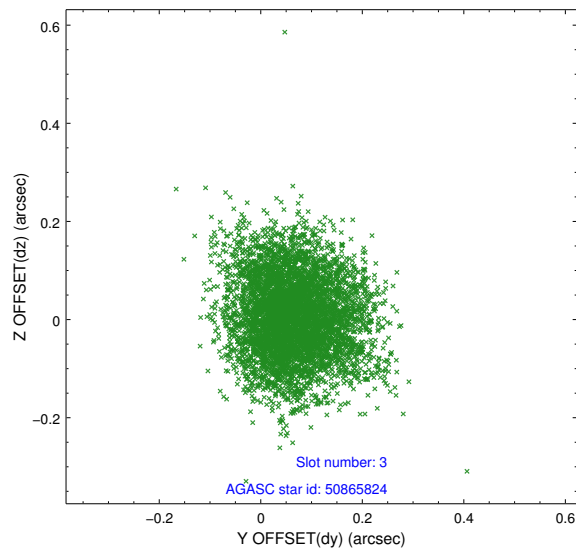


Slot Statistics

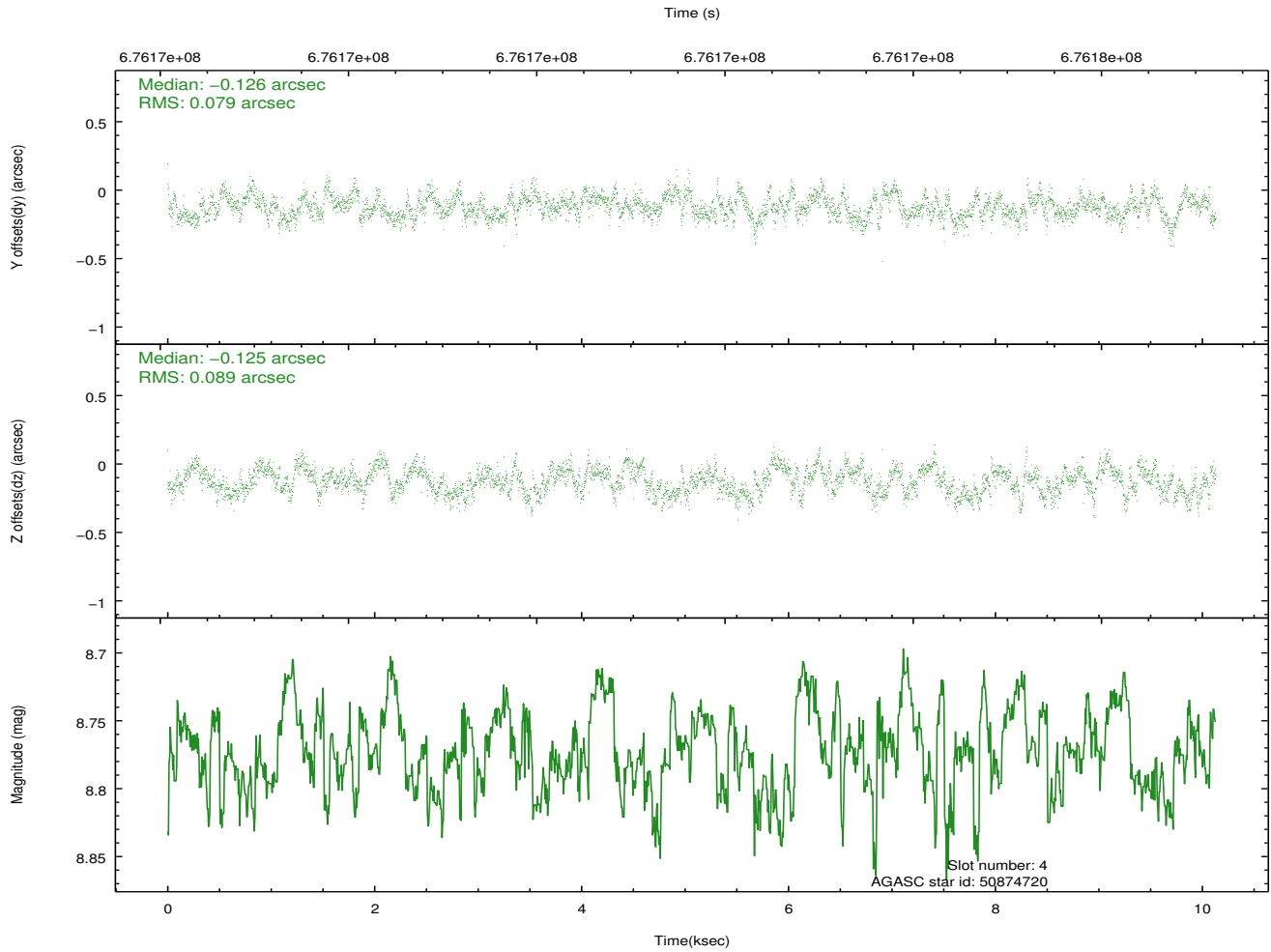
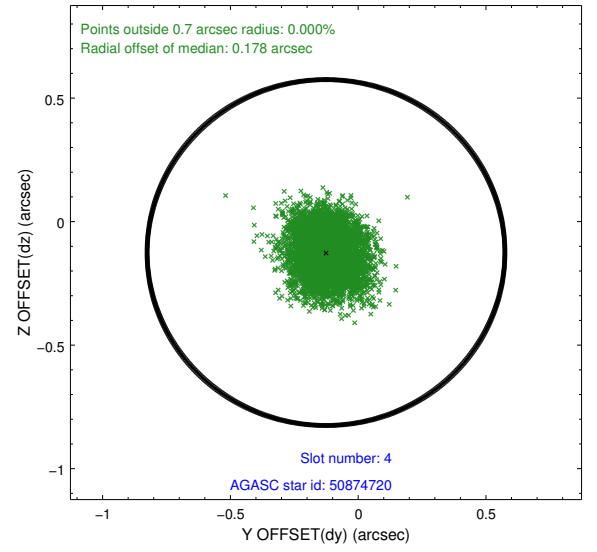
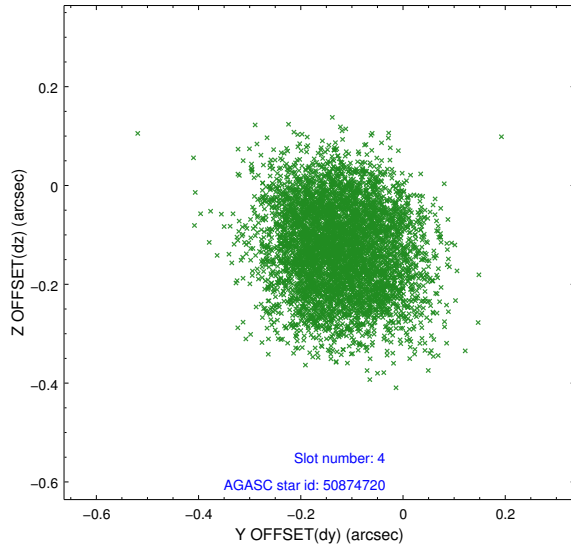
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.21	2471	1.000	-0.211	-0.179	0.013	0.020	0.000000	0.000000	46.39	-1869
1	FID		ACIS-S-4	7.07	2472	1.000	0.719	0.195	0.031	0.081	0.000000	0.000000	2147.41	167
2	FID		ACIS-S-5	7.04	2472	1.000	-0.538	-0.007	0.038	0.086	0.000000	0.000000	-1819.37	161
3	GUIDE	used	50865824	8.86	4936	1.000	0.060	0.006	0.113	0.179	253.112876	3.039927	439.59	-1824
4	GUIDE	used	50874720	8.77	4943	1.000	-0.126	-0.125	0.129	0.198	252.871376	2.926043	1312.54	-1422
5	GUIDE	used	50987568	8.93	4938	1.000	-0.003	-0.142	0.109	0.172	253.458665	2.495501	-784.20	146
6	GUIDE	used	51000120	7.60	4880	1.000	0.124	0.176	0.119	0.181	253.311844	3.020755	-274.86	-1748
7	GUIDE	used	50987072	9.30	4933	1.000	-0.064	0.095	0.173	0.288	253.152246	2.948683	301.28	-1495

2.4 Star Slots

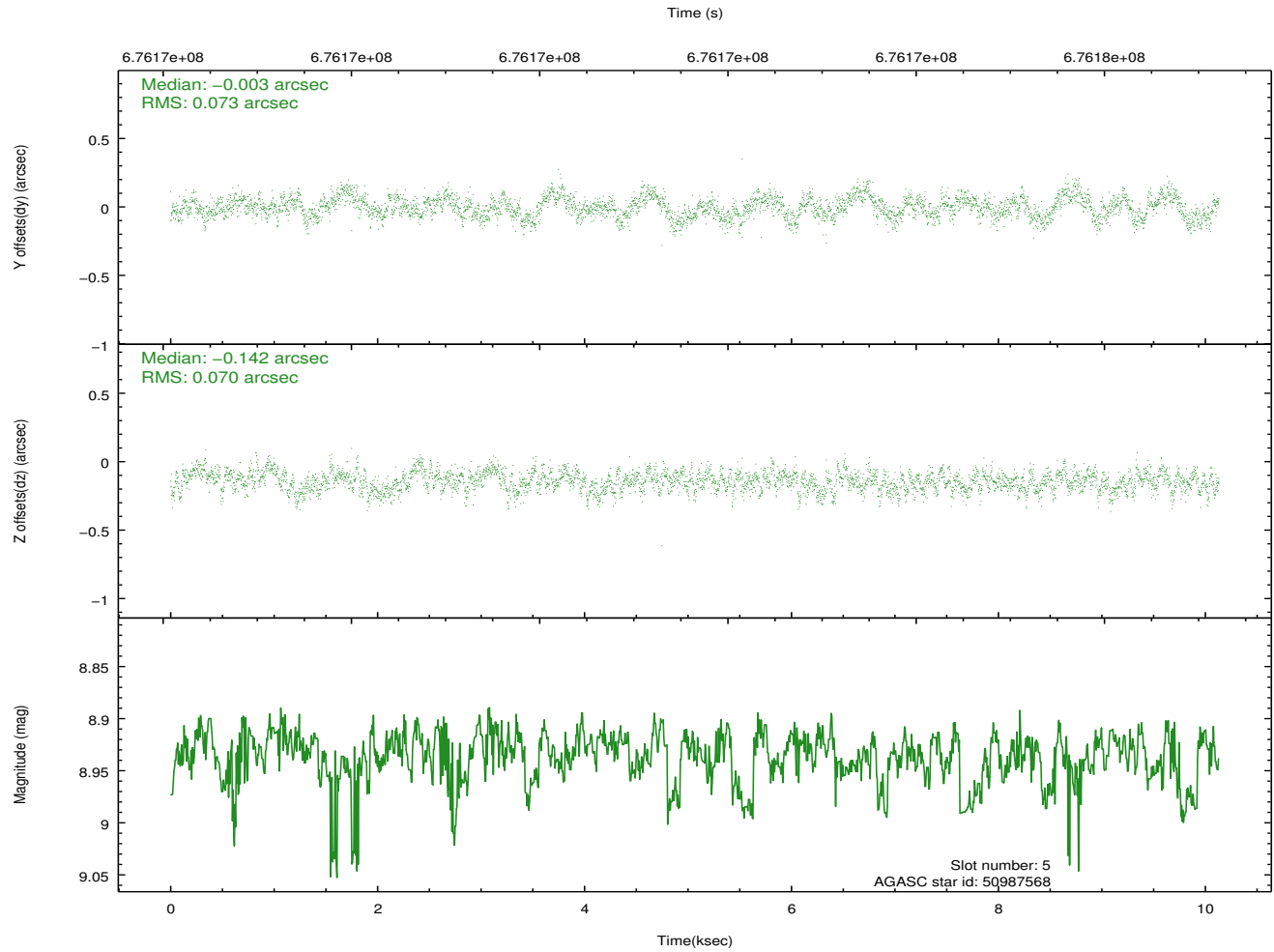
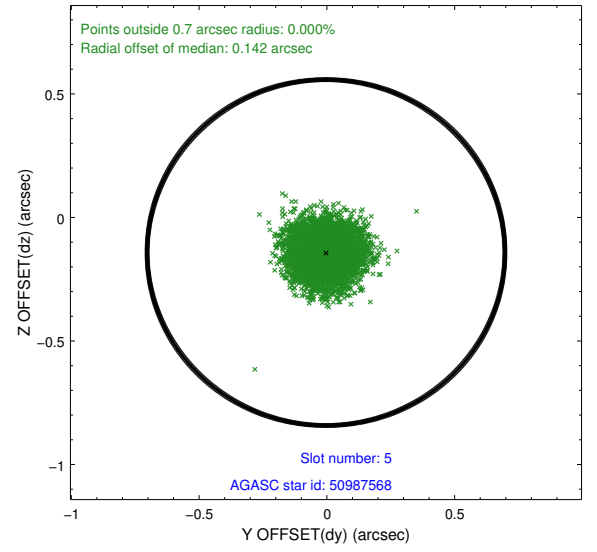
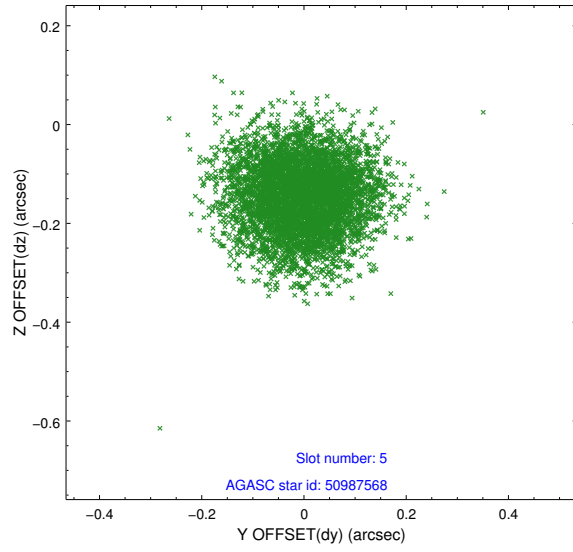
2.4.1 Slot 3



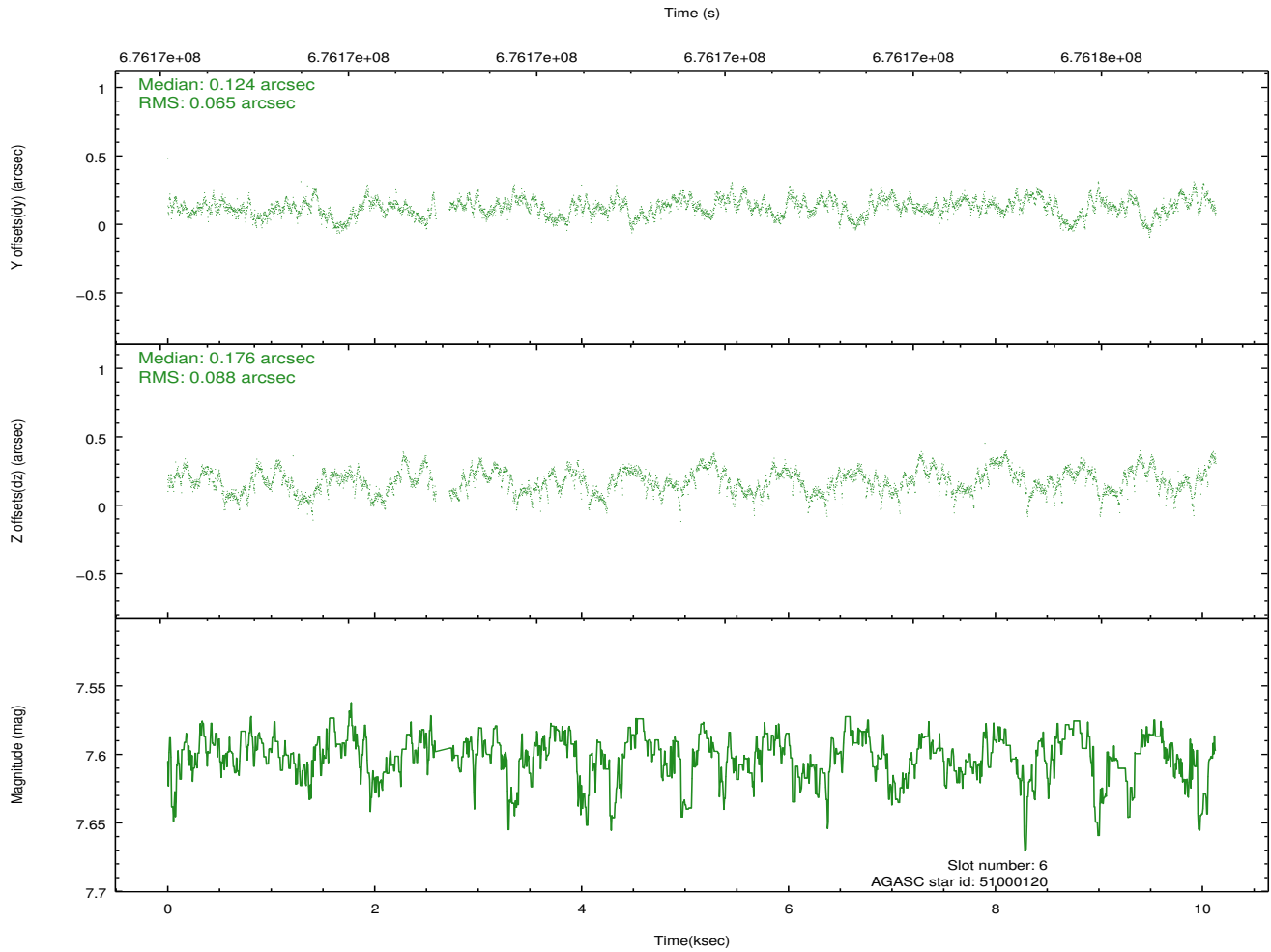
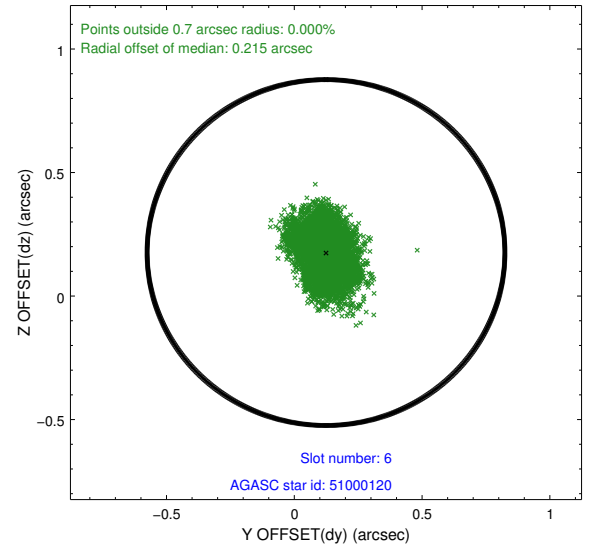
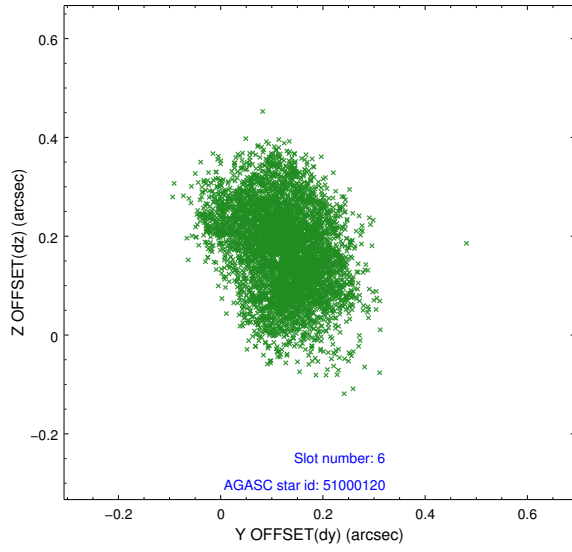
2.4.2 Slot 4



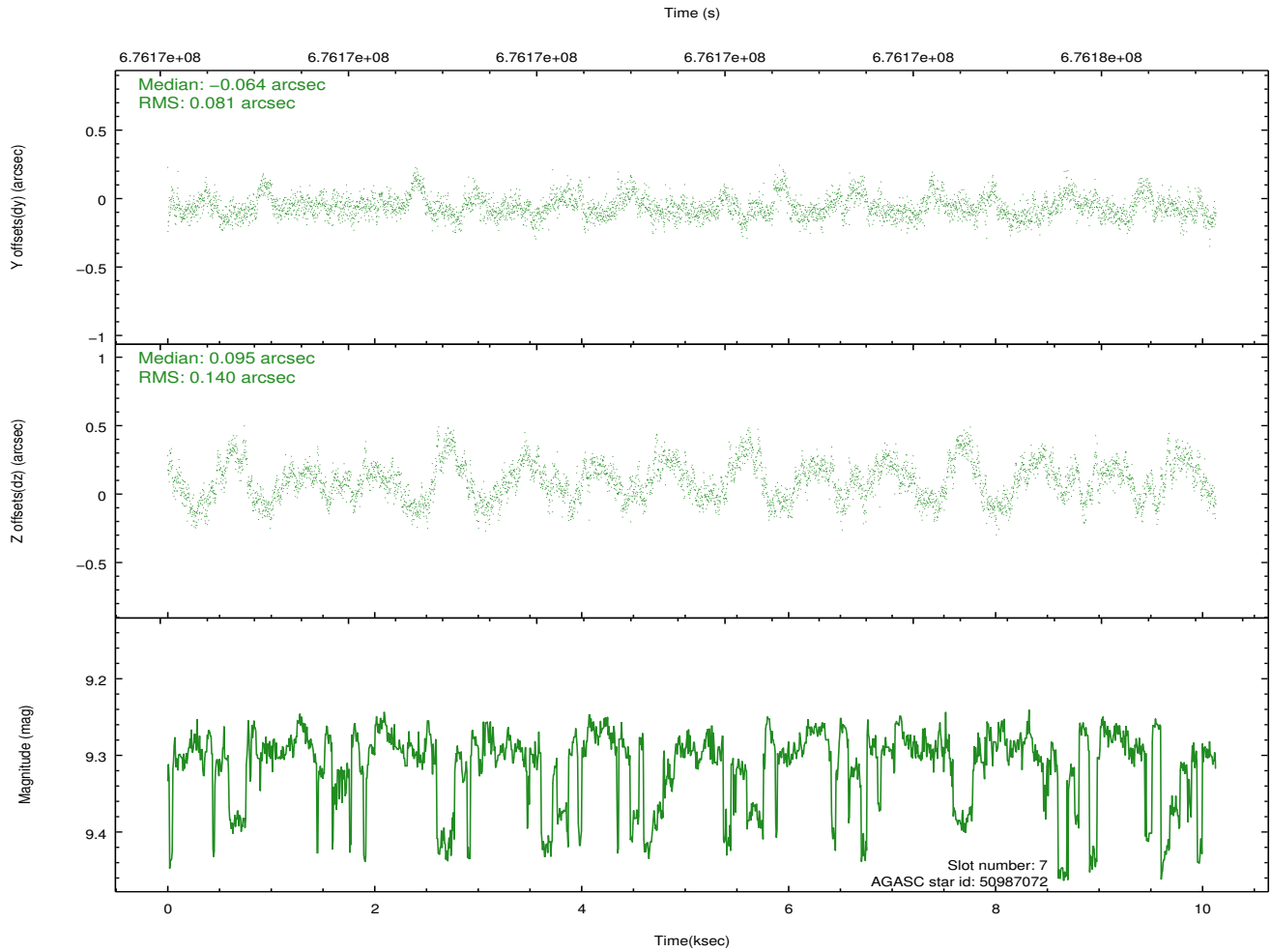
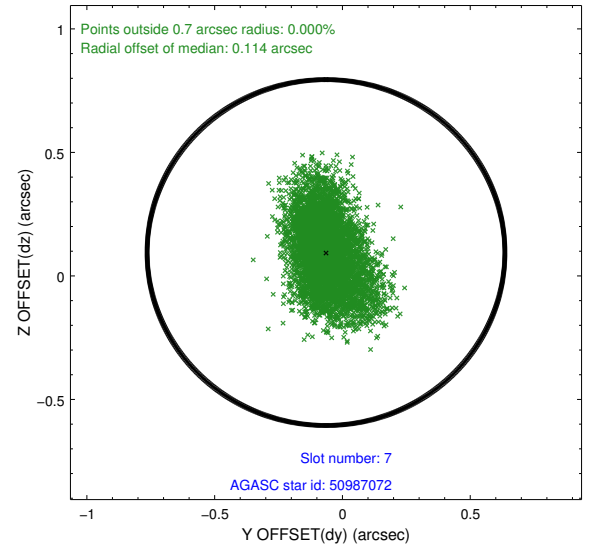
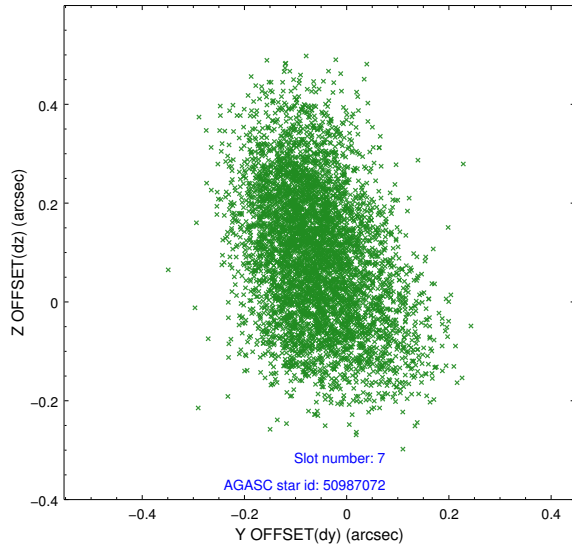
2.4.3 Slot 5



2.4.4 Slot 6

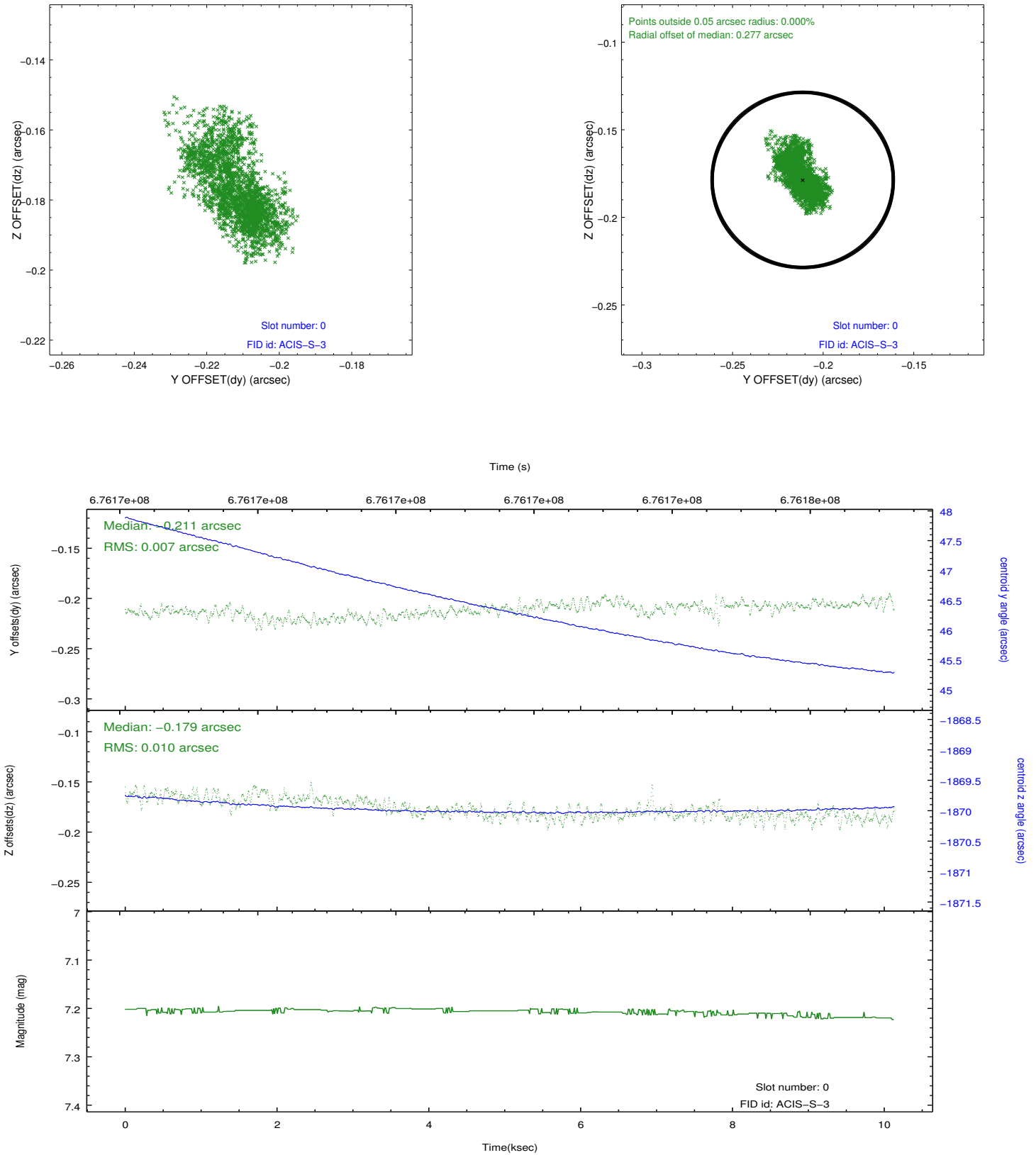


2.4.5 Slot 7

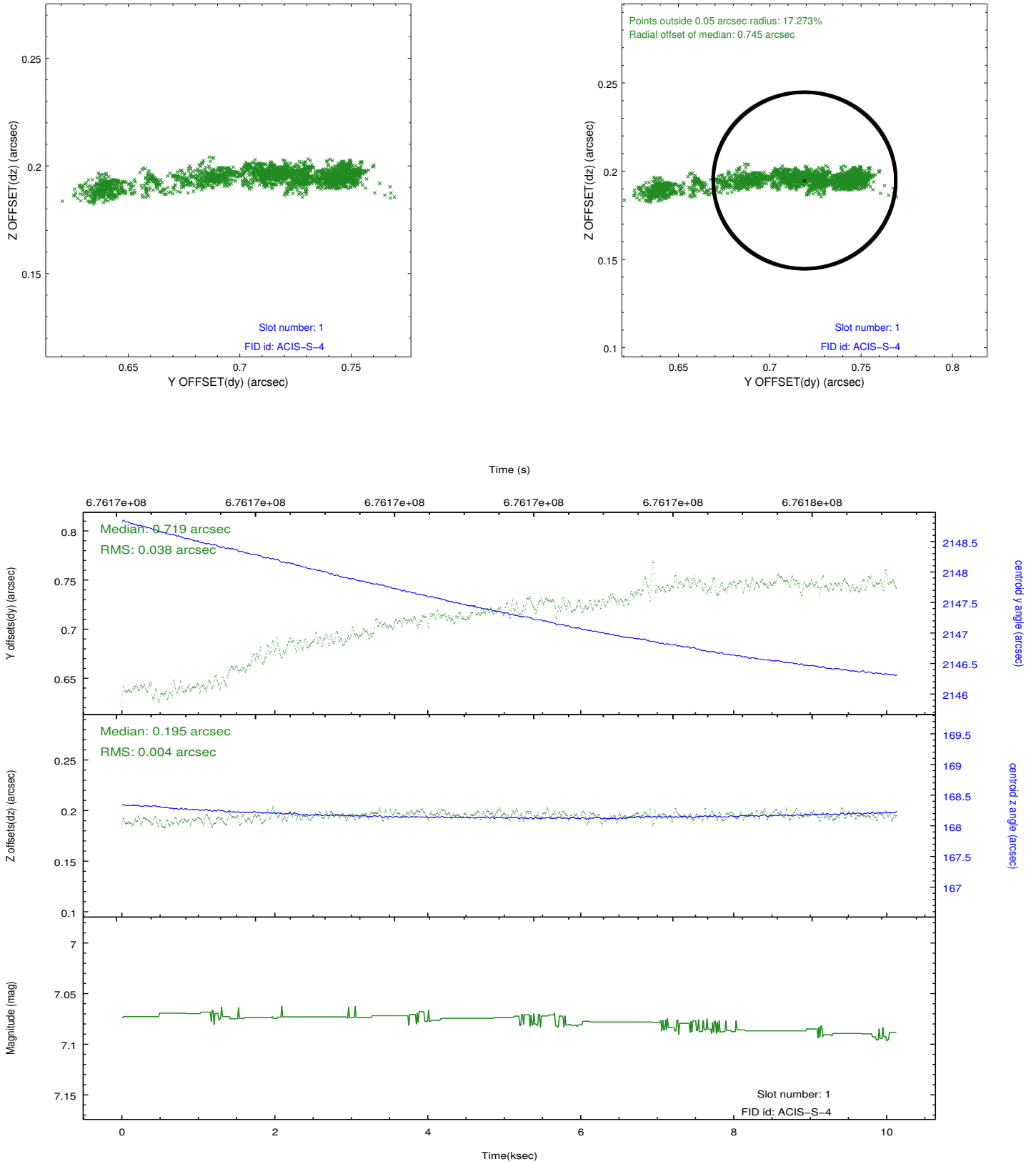


2.5 FID Slots

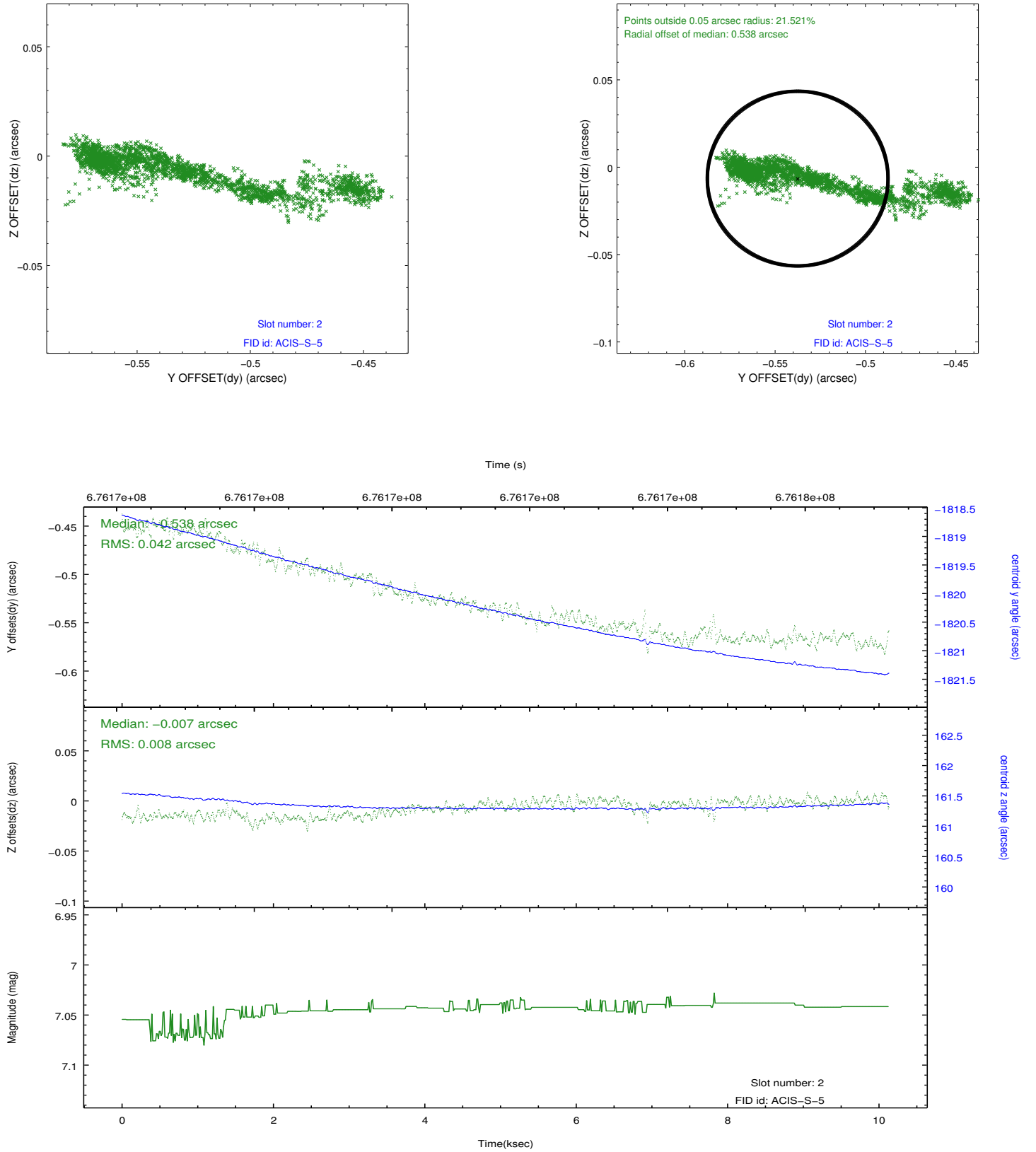
2.5.1 Slot 0



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)	2019.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.091207585454

A.2 Comments