

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22119 - L2 Version 1
Chandra X-Ray Center

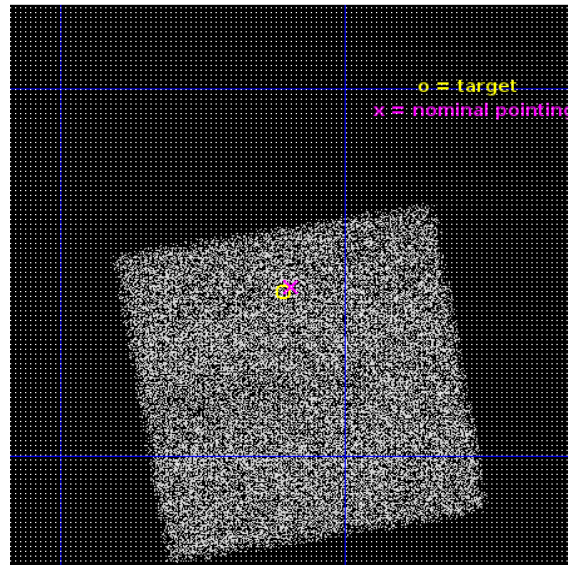
L2 Processing Date : Feb 21 2019

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

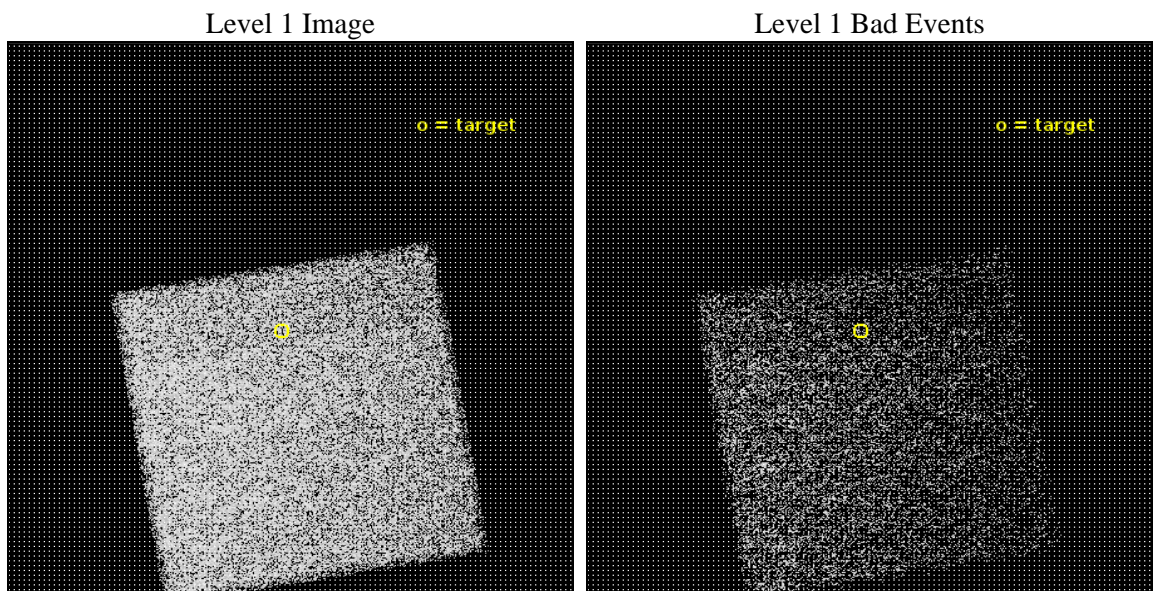
seq_num	703869	Sequence number
obs_id	22119	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	1E1841m045_s2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.276794	Observer's specified target RA [deg]
dec_targ	-5.092452	Observer's specified target Dec [deg]
ra_nom	280.27354617338	Nominal RA [deg]
dec_nom	-5.0898278466616	Nominal Dec [deg]
roll_nom	80.365557099617	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10092.0	Sum of GTIs [s]
livetime	9955.8045931655	Livetime [s]
ontime7	10092.0	Sum of GTIs [s]
l2events	42576	Number of level 2 events



2 OBI

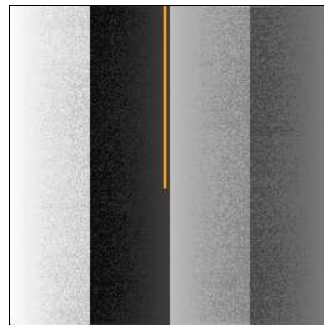
2.1 OBI

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	10092.0	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	10092.0	Sum of GTIs [s]
date	2019-02-21T07:19:55	Date and time of file creation	l1events	98106	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

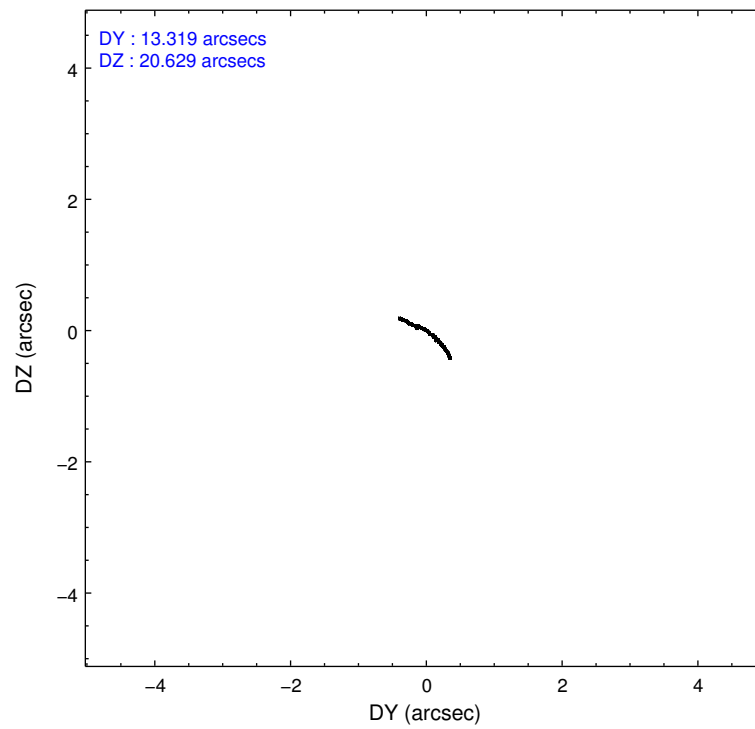
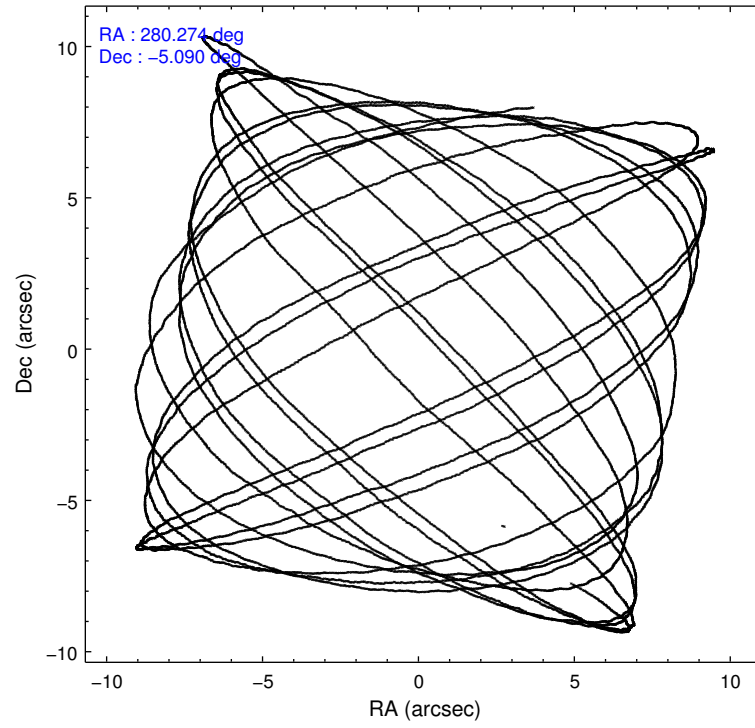
	ccd 7
level 1 events	98106
rejected events	54388
rejected %	55%

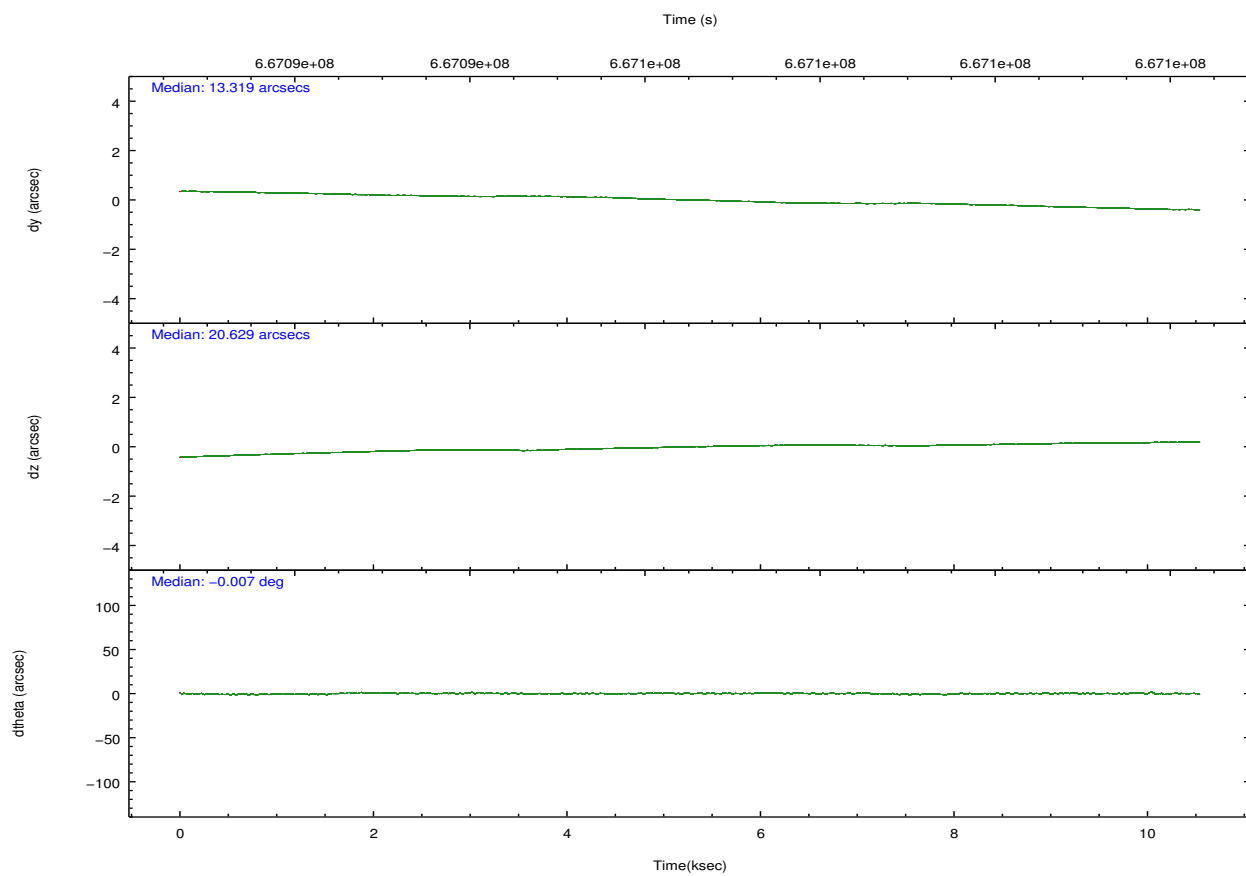
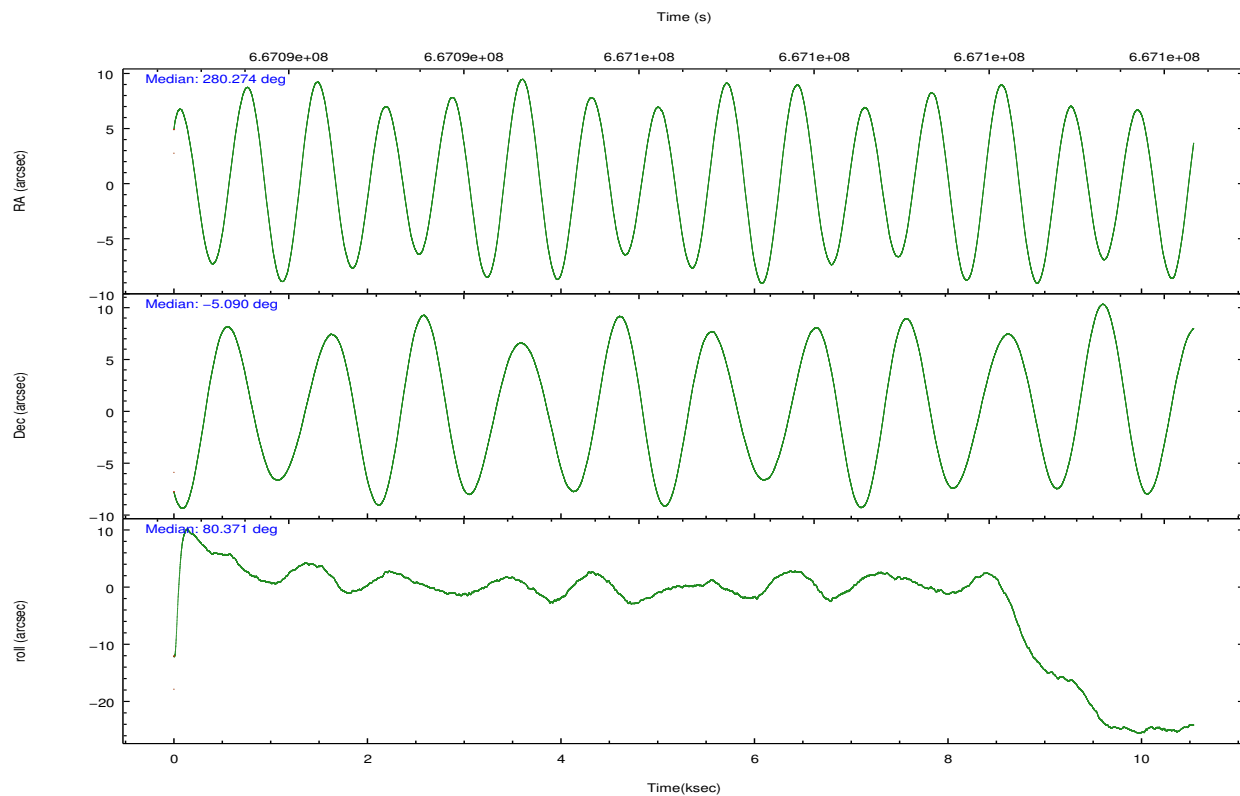
	ccd 7
grade 0 events	3823
	3%
grade 1 events	107
	0%
grade 2 events	9249
	9%
grade 3 events	3516
	3%
grade 4 events	3464
	3%
grade 5 events	9538
	9%
grade 6 events	23679
	24%
grade 7 events	44730
	45%

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	280.283487	280.2735461733758	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.115405	-5.08982784666155	Alternating exposures requested	N	N
[deg] Pointing Roll	80.209843	80.36555709961718	[s] Primary exposure time	0.000000	3
[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)	667091786.184000	667090926.67513			
Observation start date	2019-02-20T23:15:17	2019-02-20T23:02:06			
[s] Observation end time (MET)	667101786.184000	667102821.80084			
Observation end date	2019-02-21T02:01:57	2019-02-21T02:20:21			
Read mode	TIMED	TIMED			

2.3 Aspect



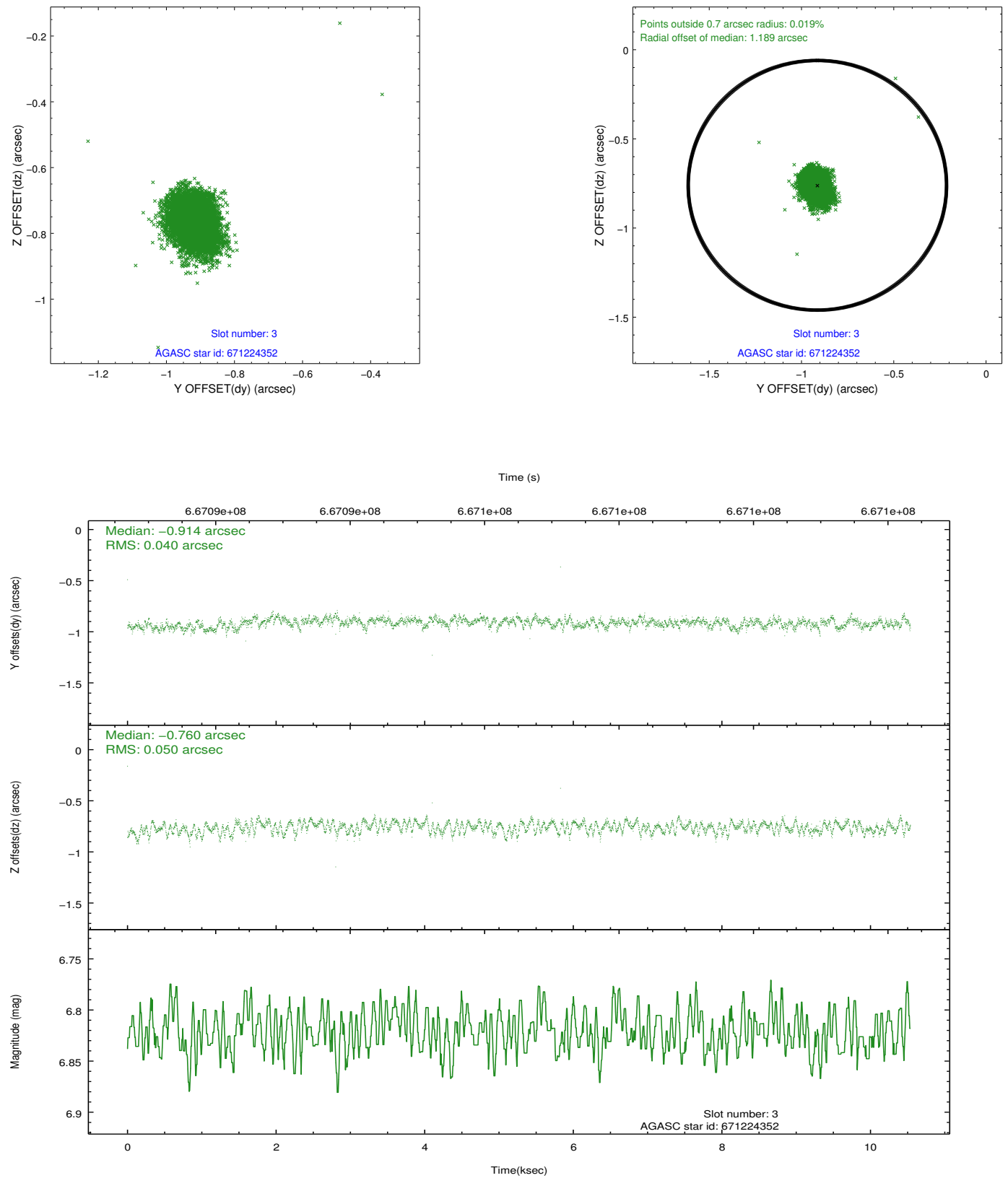


Slot Statistics

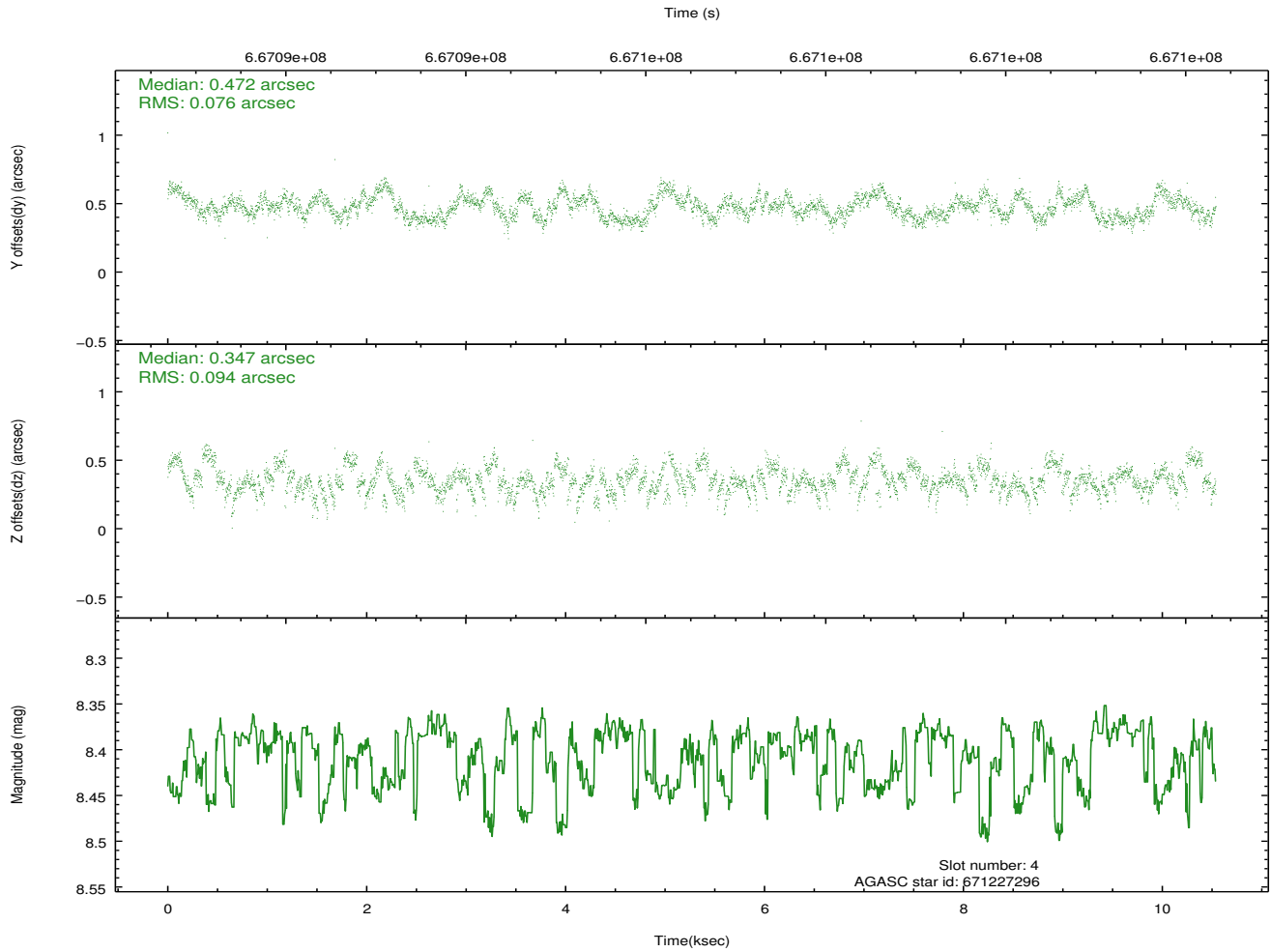
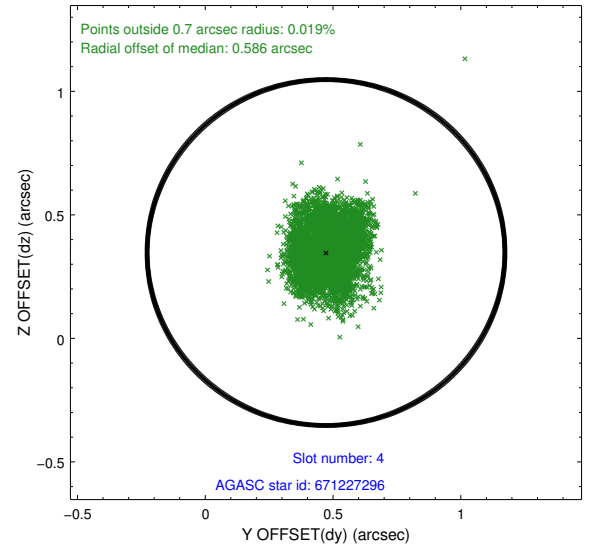
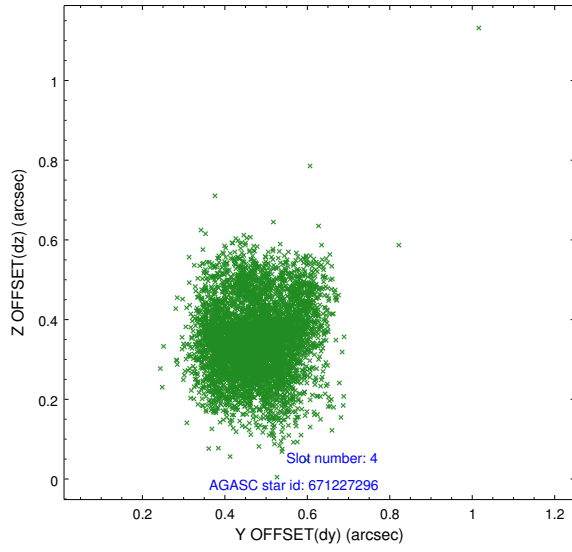
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.37	2571	1.000	-0.234	-0.246	0.016	0.025	0.000000	0.000000	46.82	-1871
1	FID		ACIS-S-4	7.25	2571	1.000	0.717	0.237	0.021	0.037	0.000000	0.000000	2147.84	166
2	FID		ACIS-S-5	7.23	2571	1.000	-0.516	0.017	0.022	0.040	0.000000	0.000000	-1818.96	160
3	GUIDE	used	671224352	6.82	5142	1.000	-0.914	-0.760	0.068	0.106	280.197595	-4.496426	2143.43	682
4	GUIDE	used	671227296	8.41	5139	1.000	0.472	0.347	0.130	0.206	280.875917	-5.465795	-881.29	-2305
5	GUIDE	used	671757464	7.09	5142	1.000	0.348	0.513	0.078	0.129	280.850348	-5.694534	-1708.68	-2354
6	GUIDE	used	671761568	8.60	5136	1.000	0.127	0.128	0.145	0.214	280.250283	-5.657644	-1943.04	-214
7	GUIDE	used	671763744	7.50	5141	1.000	-0.020	-0.214	0.101	0.172	280.132895	-5.707615	-2192.03	169

2.4 Star Slots

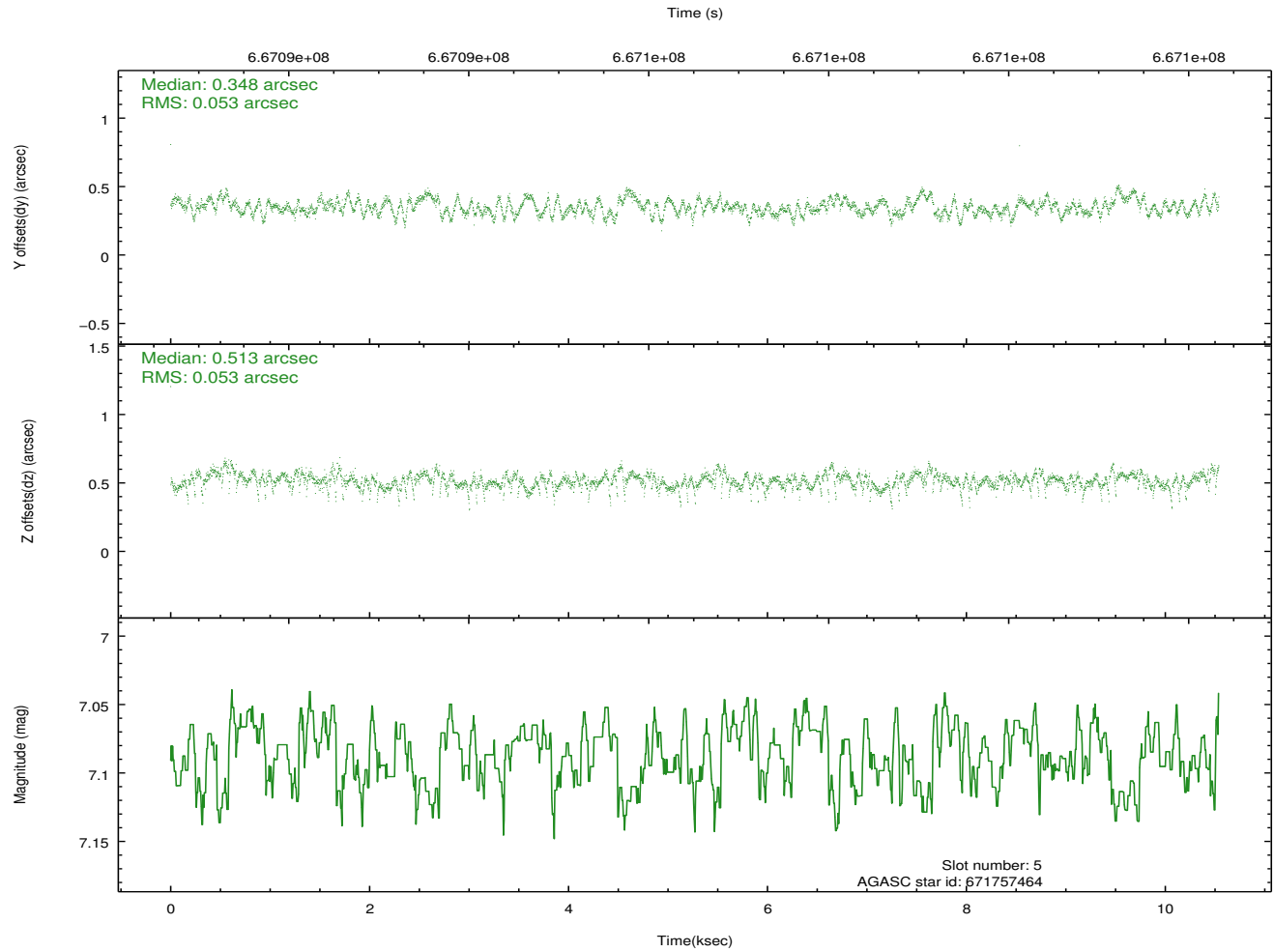
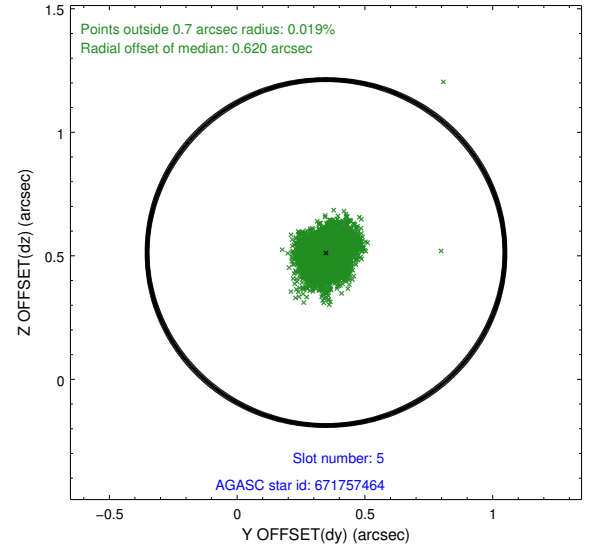
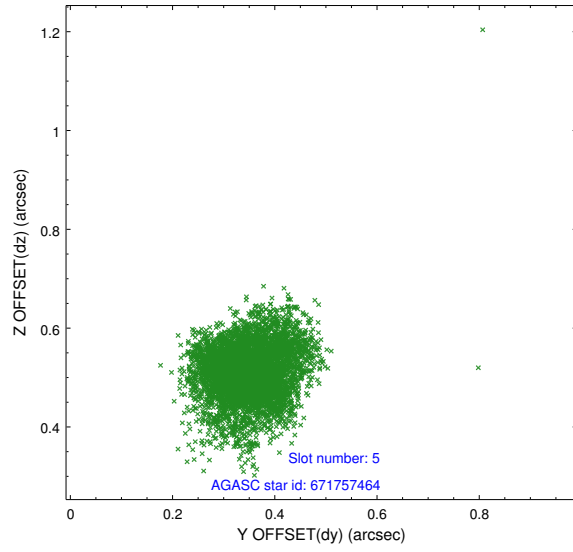
2.4.1 Slot 3



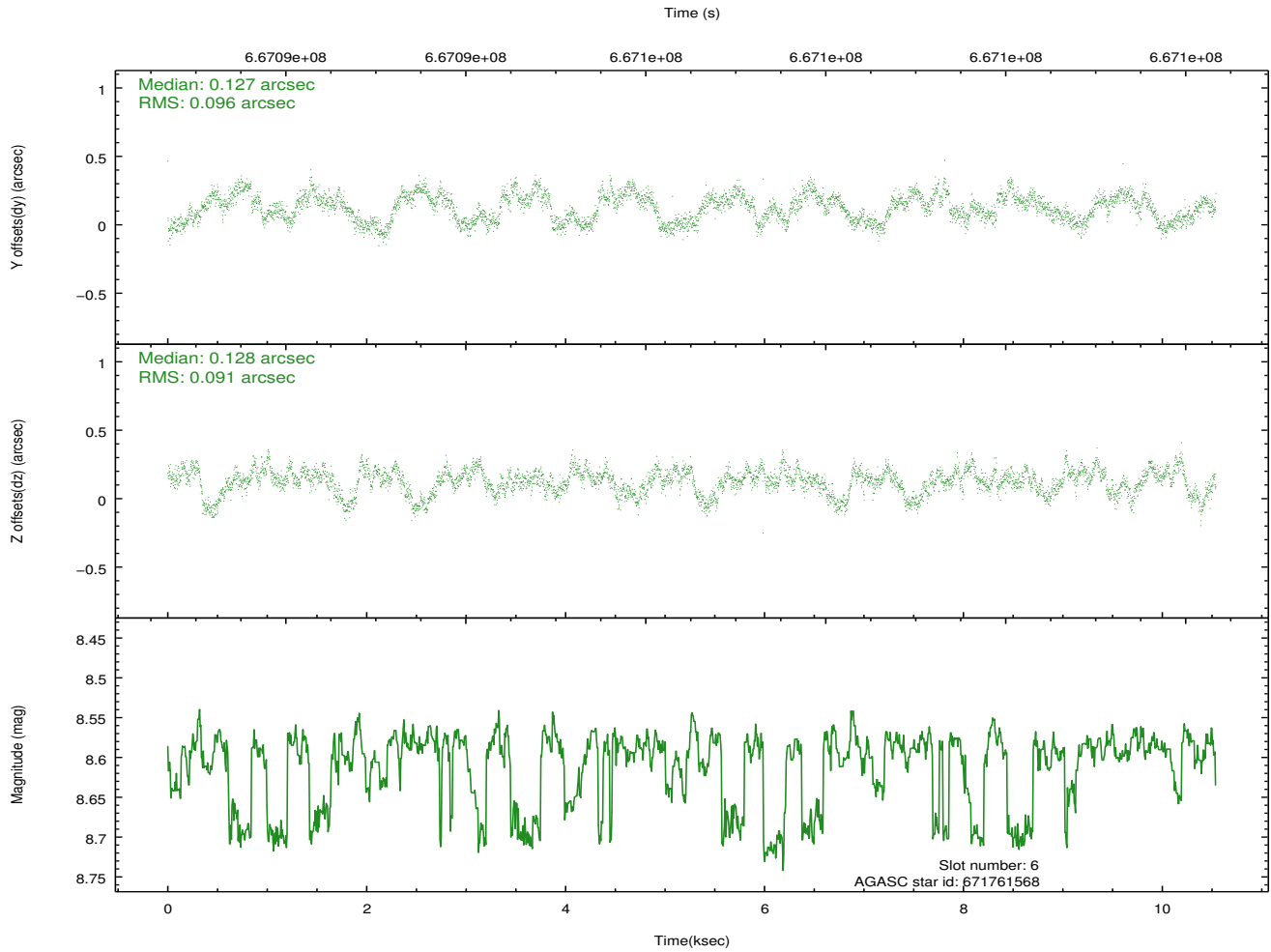
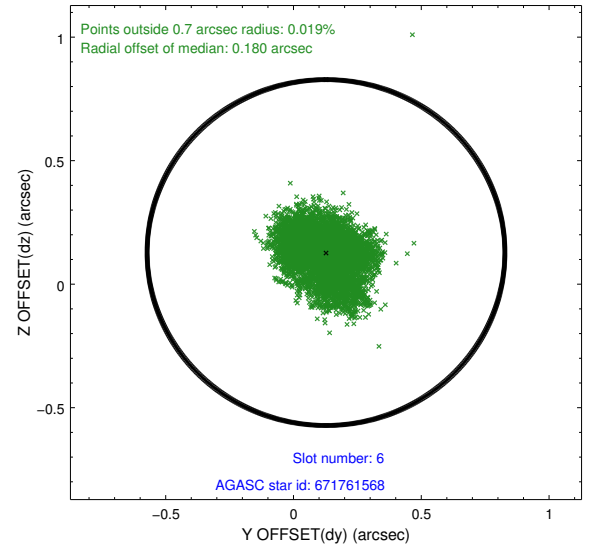
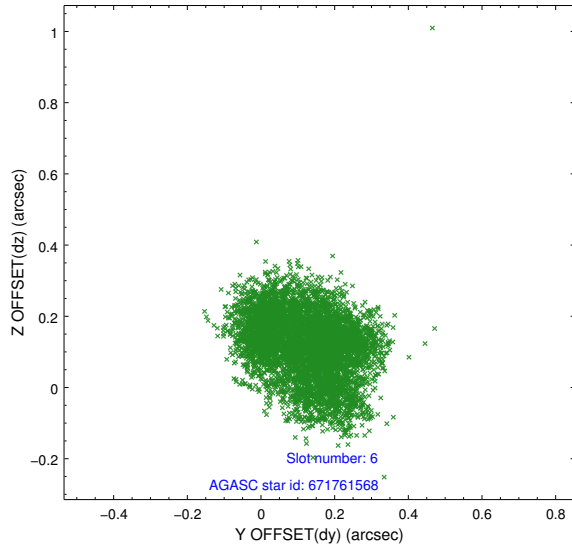
2.4.2 Slot 4



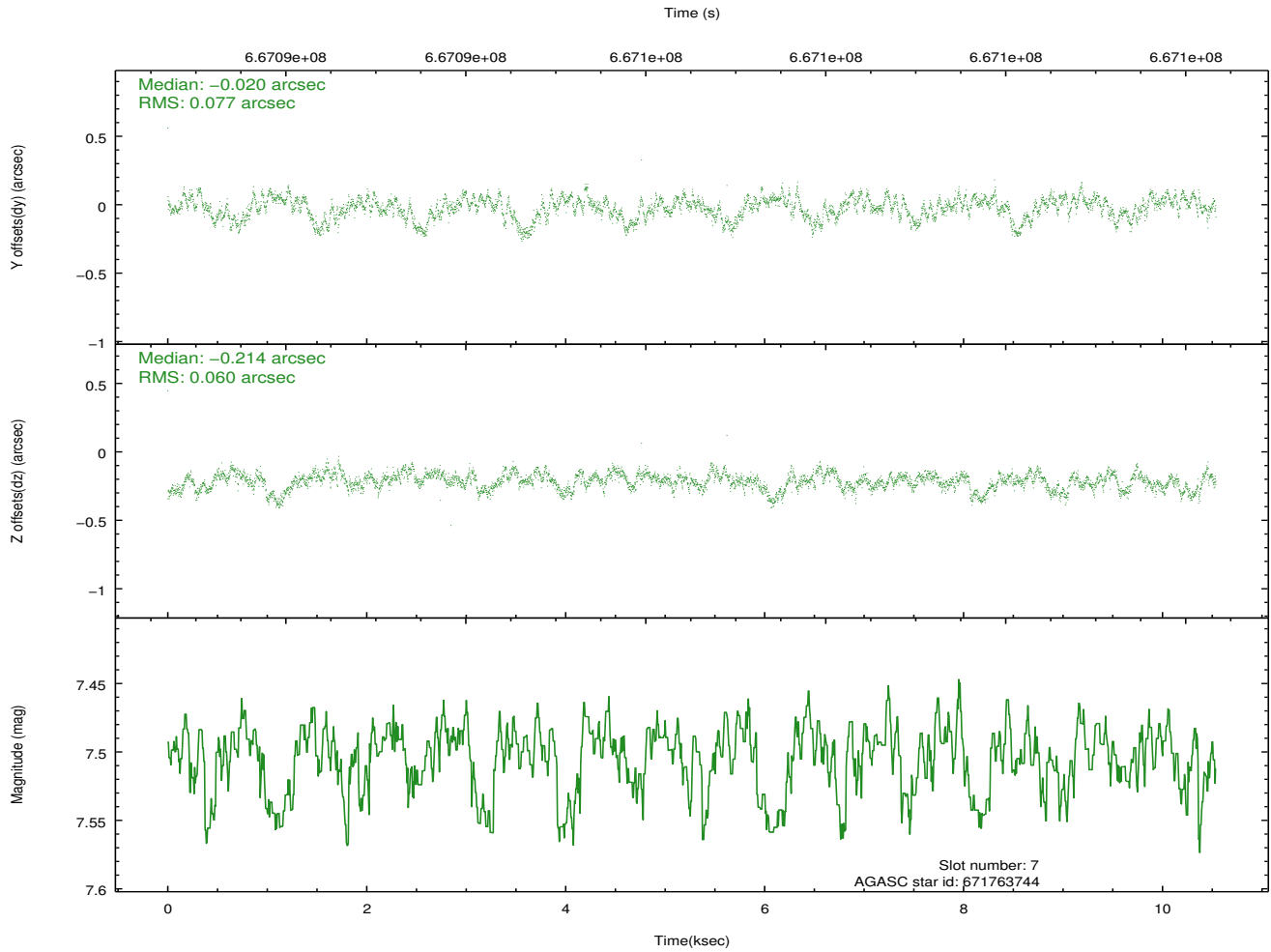
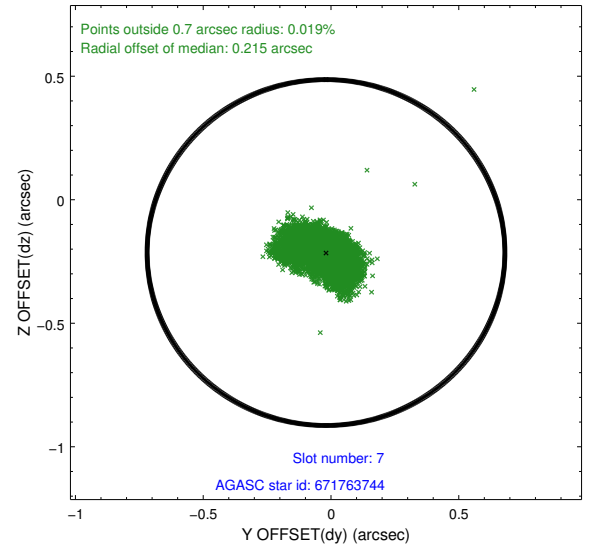
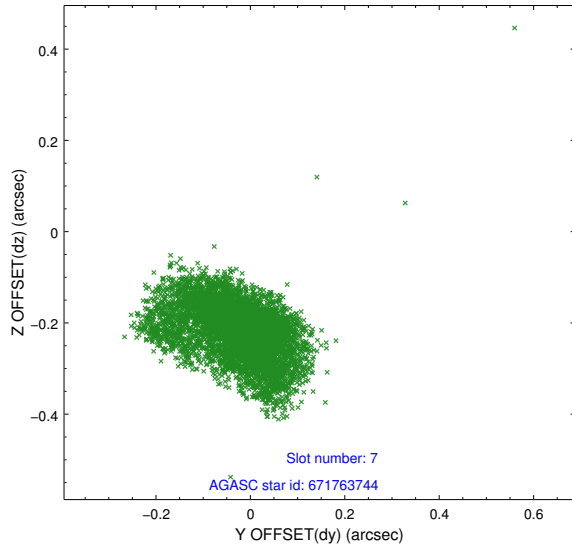
2.4.3 Slot 5



2.4.4 Slot 6

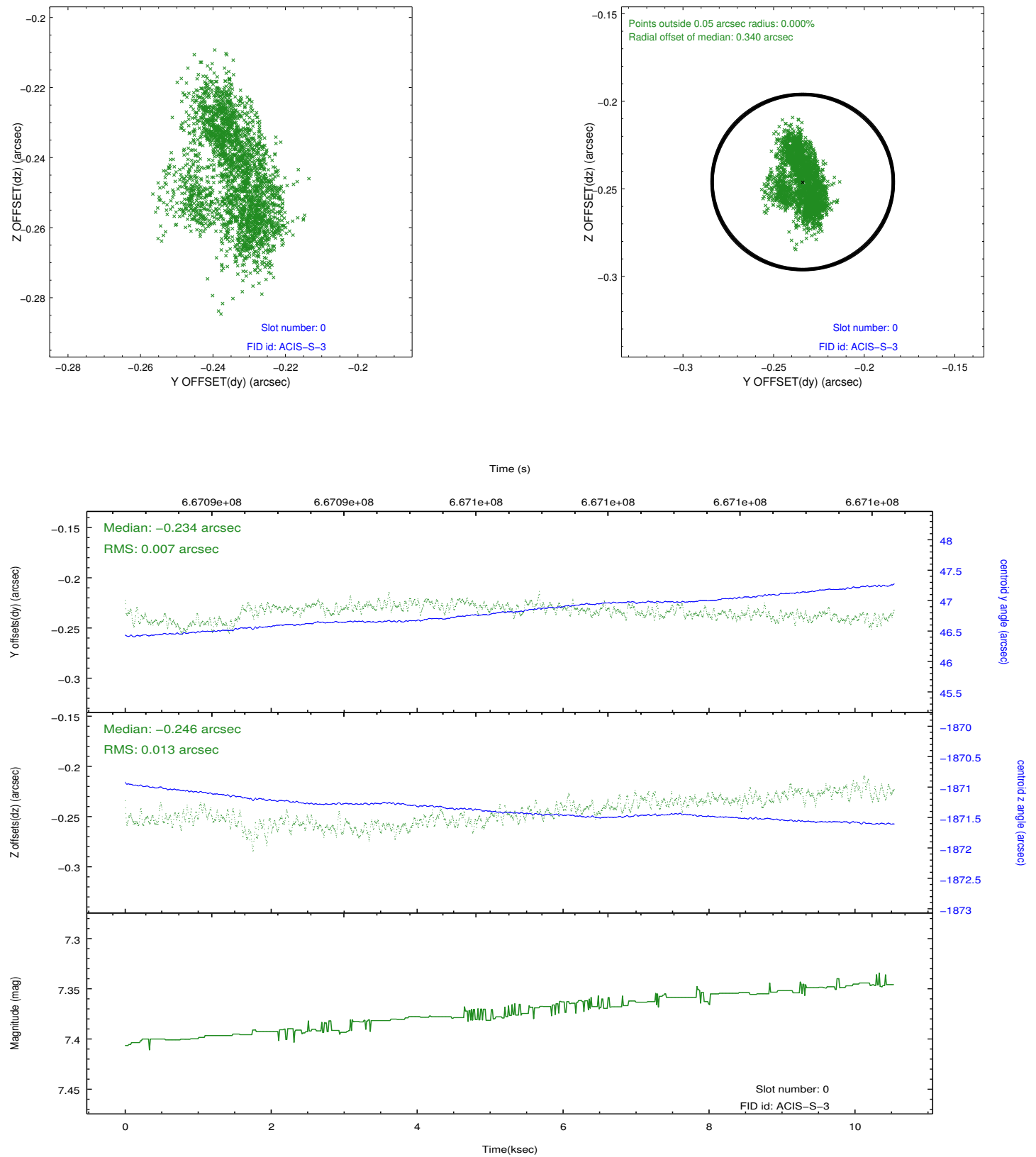


2.4.5 Slot 7

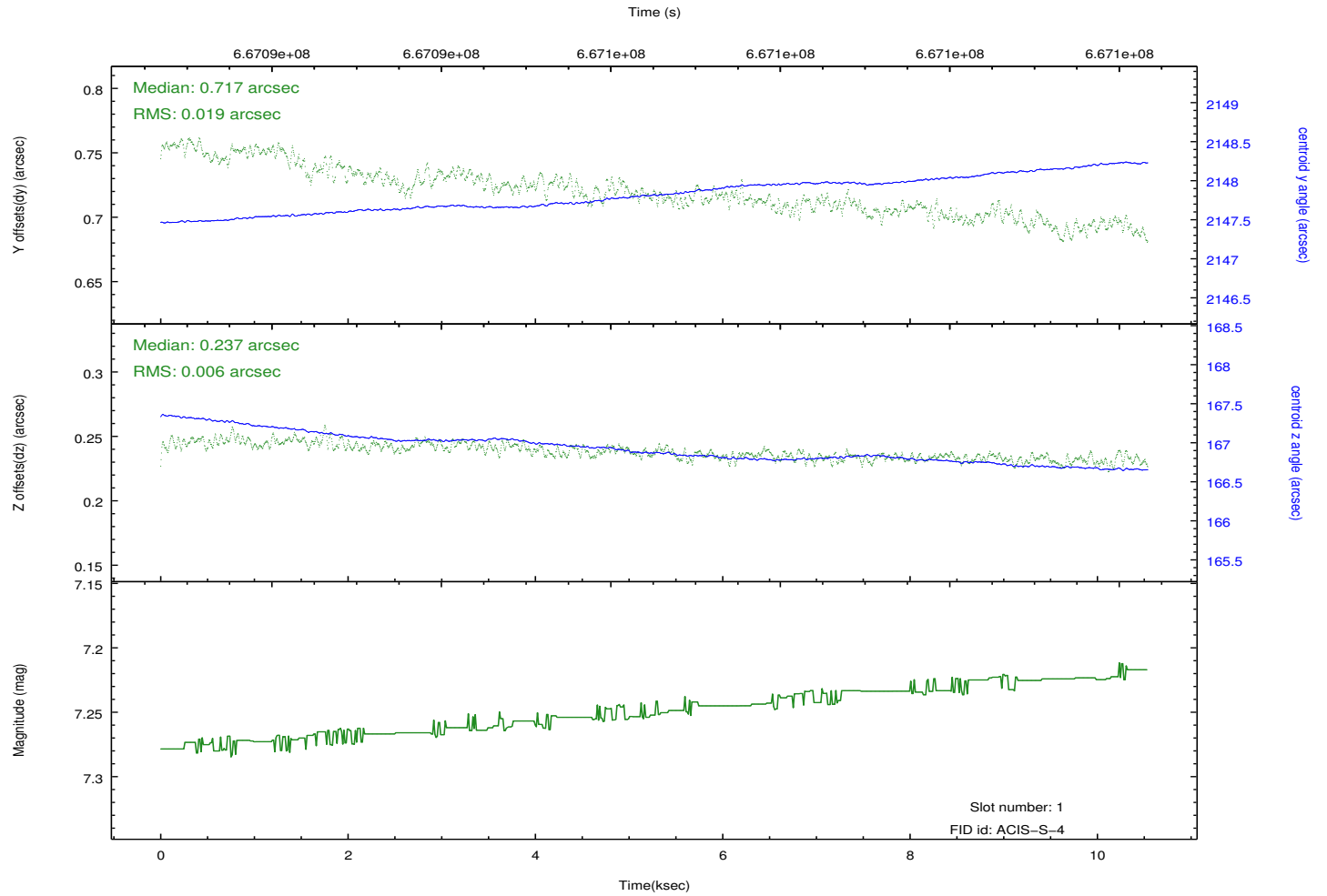
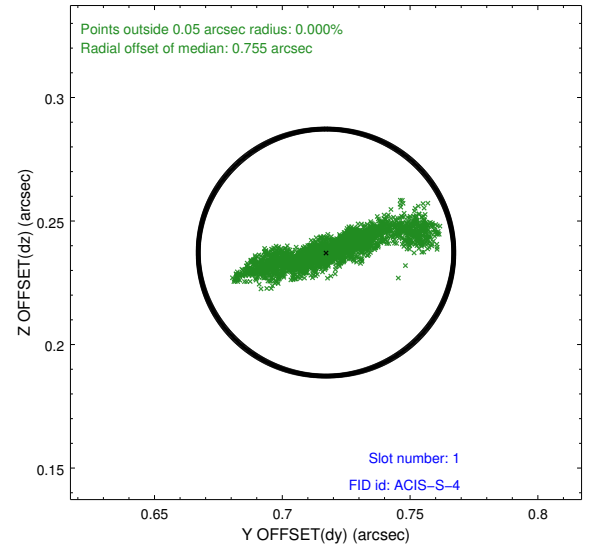
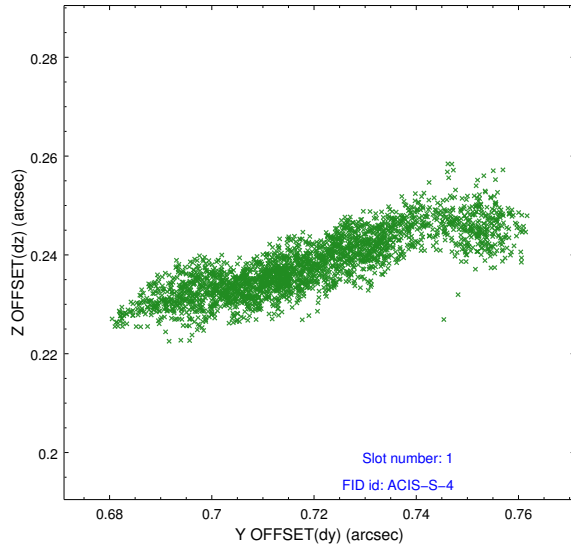


2.5 FID Slots

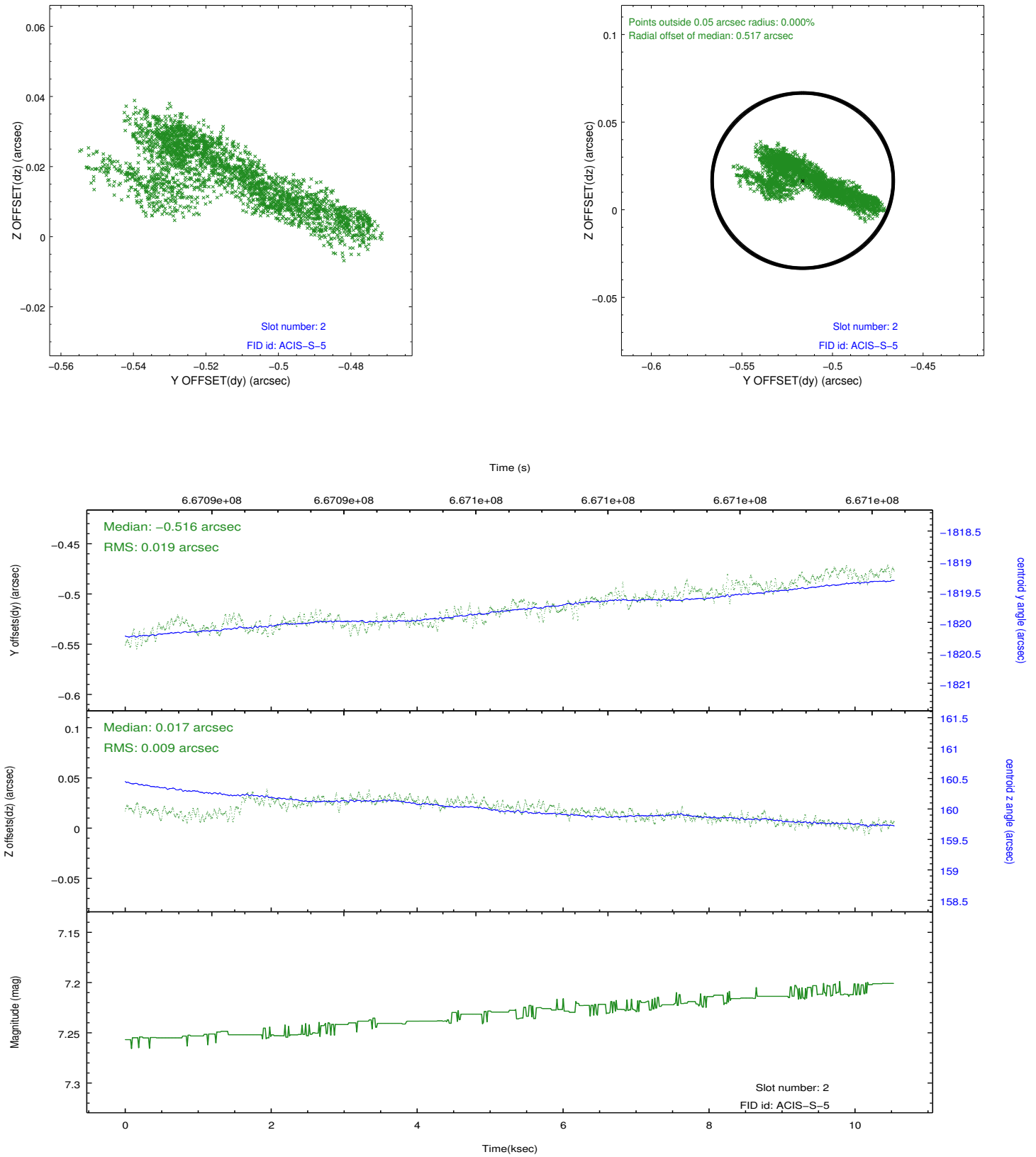
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.092

A.2 Comments