

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17578 - L2 Version 1
Chandra X-Ray Center

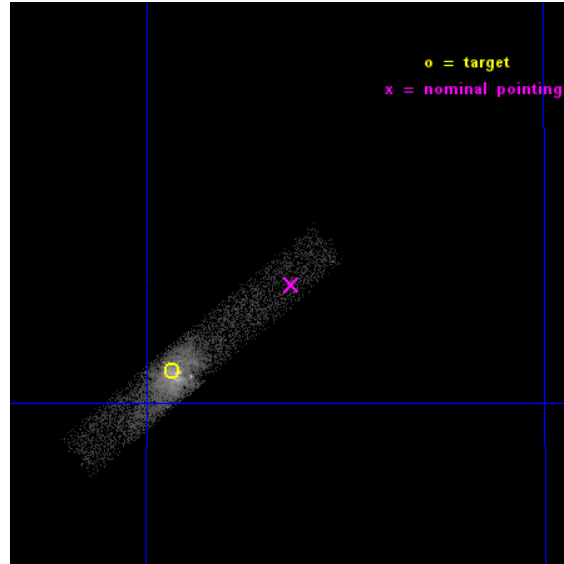
L2 Processing Date : Jan 16 2015

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1 Front

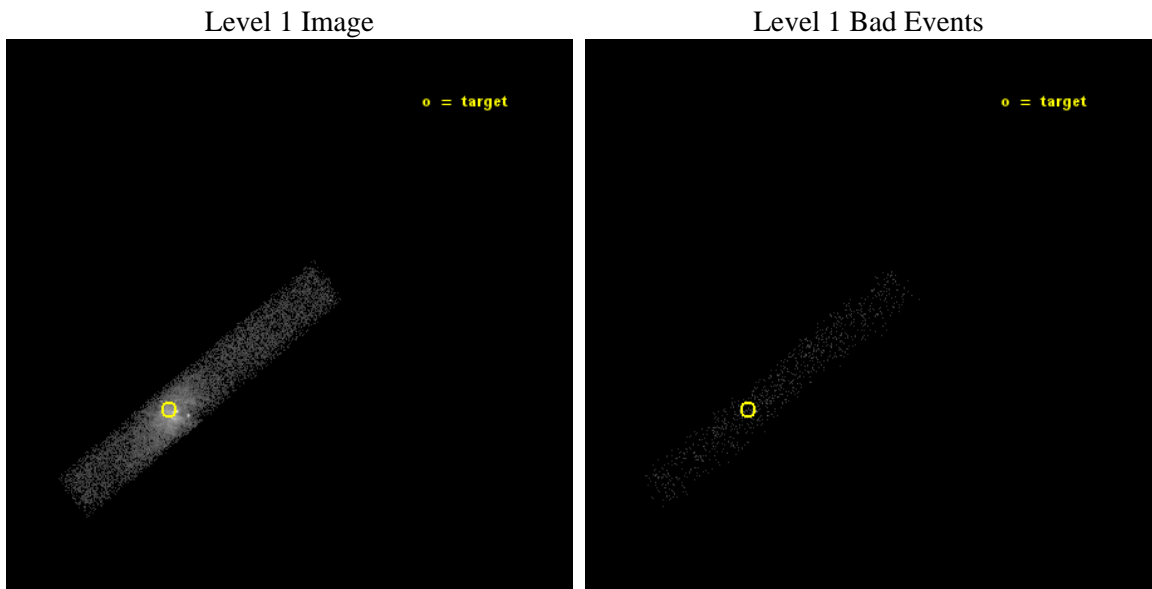
seq_num	601220	Sequence number
obs_id	17578	Observation id
title	0.5-30 KEV IMAGING OF STARBURSTS WITH CHANDRA AND NUSTAR	Proposal
observer	Dr. Ann Hornschemeier	Principal investigator
object	M82	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.9675	Observer's specified target RA [deg]
dec_targ	69.680194	Observer's specified target Dec [deg]
ra_nom	148.81753611191	Nominal RA [deg]
dec_nom	69.715272097727	Nominal Dec [deg]
roll_nom	141.29734351407	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10069.136758208	Sum of GTIs [s]
livetime	9132.1755470781	Livetime [s]
ontime7	10069.136758208	Sum of GTIs [s]
l2events	25323	Number of level 2 events



2 OBI

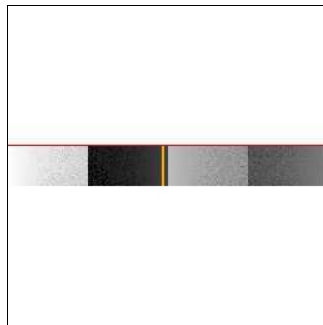
2.1 OBI

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	10.3.1	Processing system revision	ontime	10069.136758208	Sum of GTIs [s]
caldsver	4.6.5	 	ontime7	10069.136758208	Sum of GTIs [s]
date	2015-01-17T01:08:05	Date and time of file creation	l1events	30623	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	30623
rejected events	5007
rejected %	16%

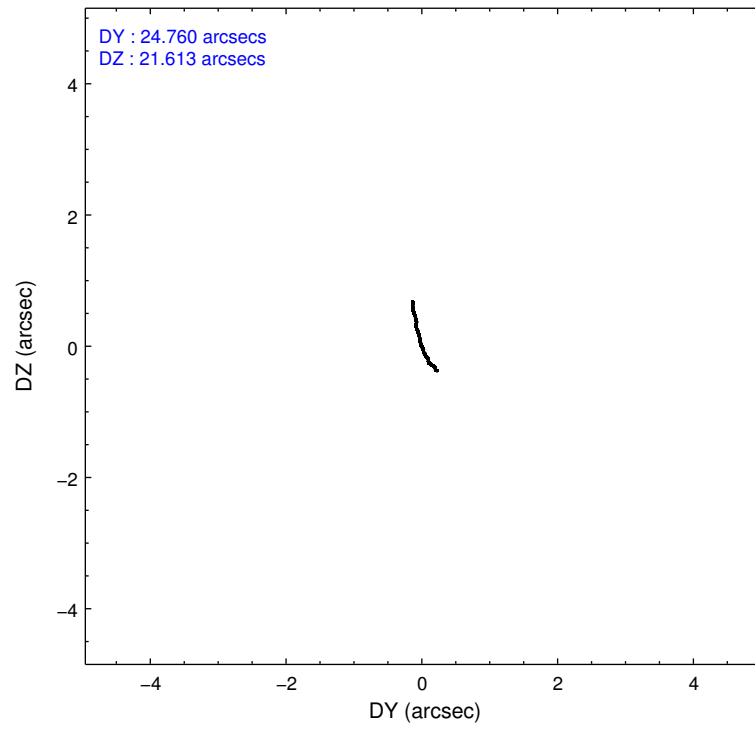
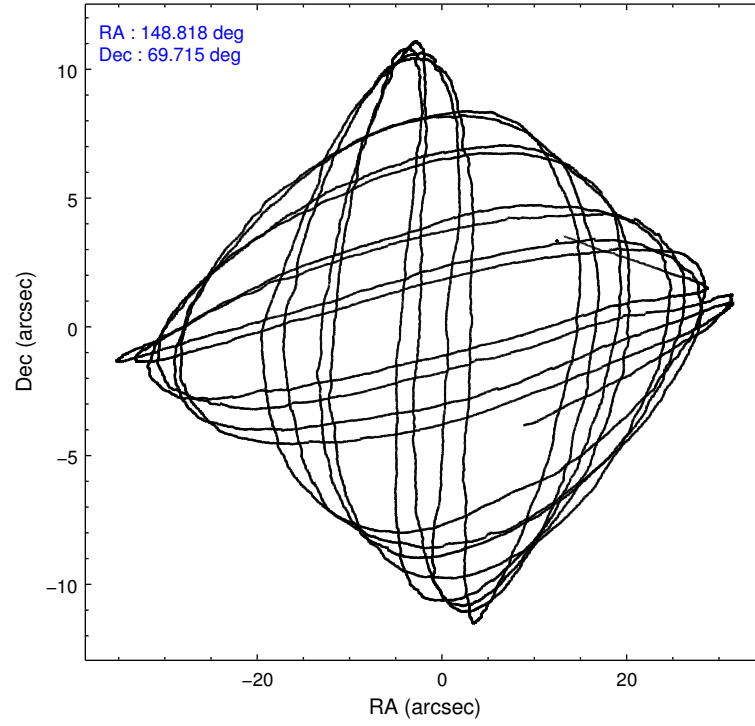
	ccd 7
grade 0 events	6868
	22%
grade 1 events	31
	0%
grade 2 events	6434
	21%
grade 3 events	3009
	9%
grade 4 events	3039
	9%
grade 5 events	1127
	3%
grade 6 events	6268
	20%
grade 7 events	3847
	12%

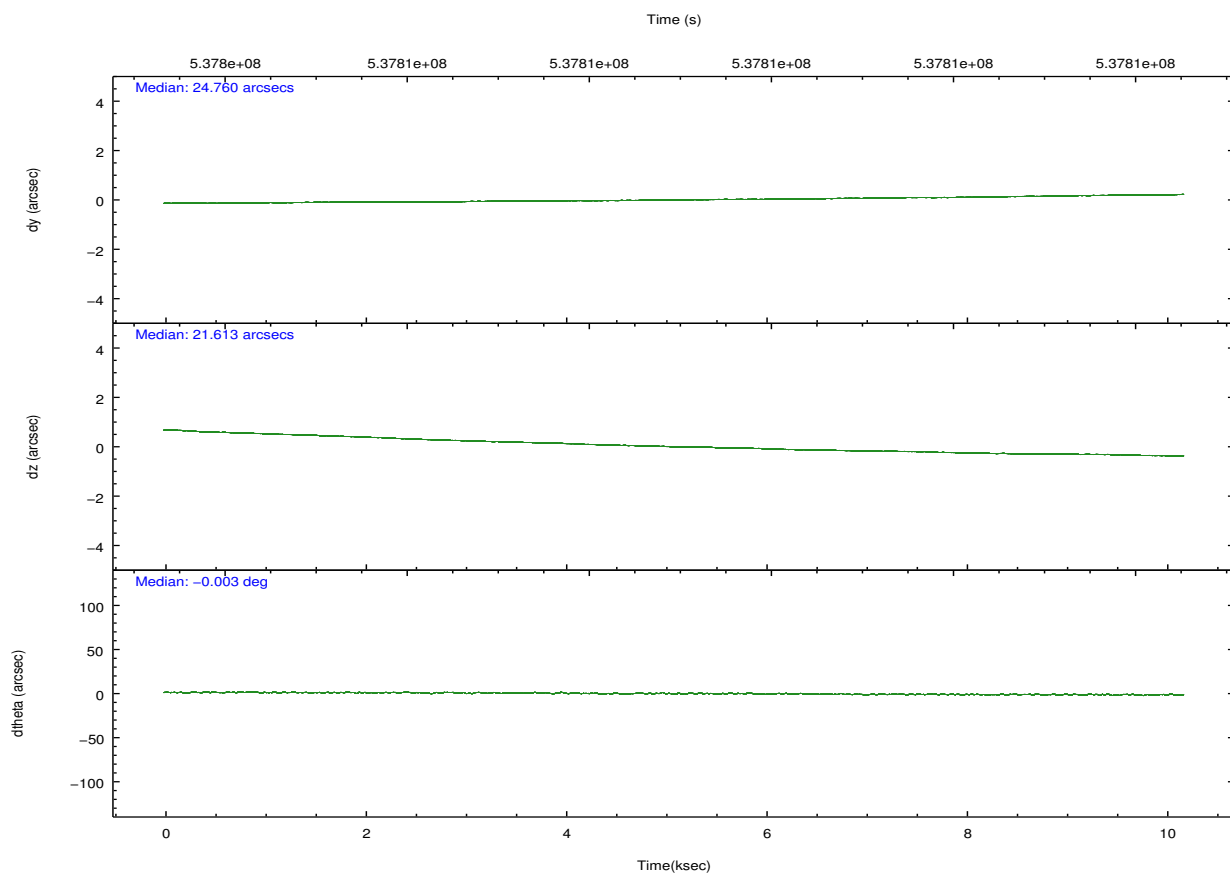
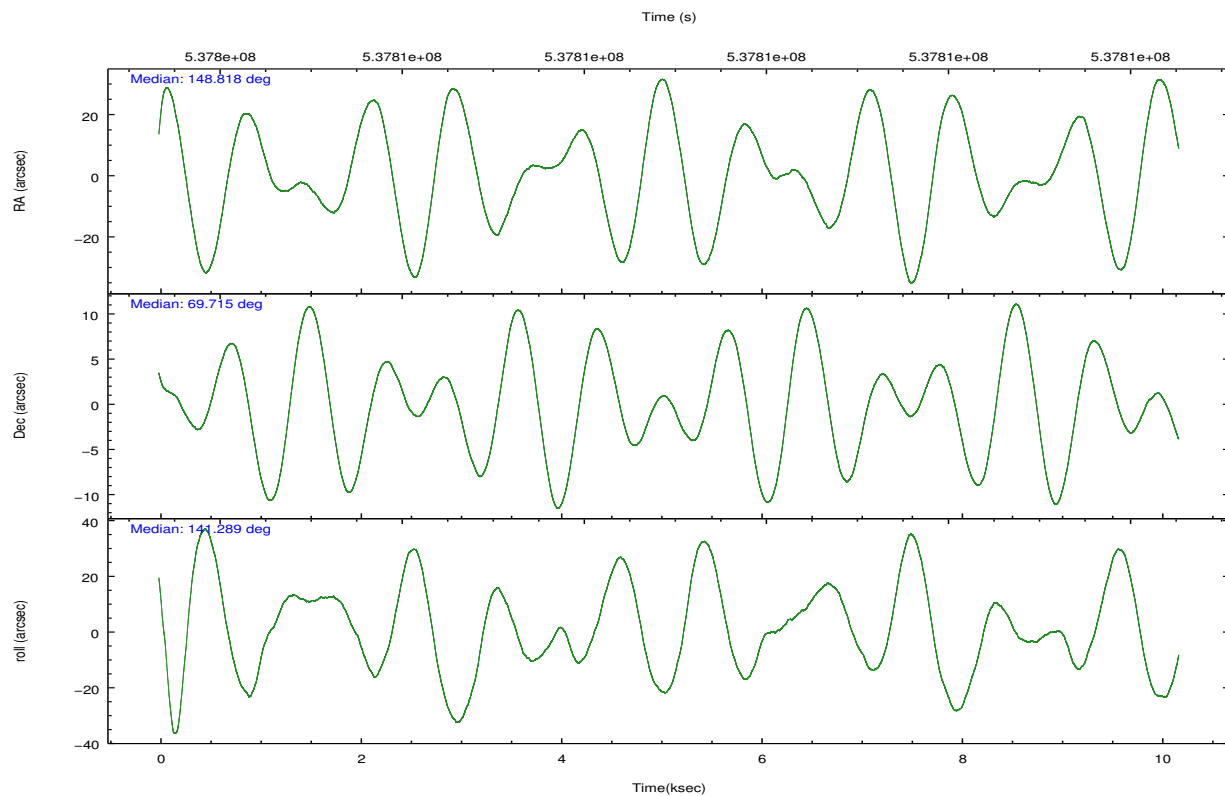
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	148.895823	148.8175361119087
[deg] Pointing Dec	69.711456	69.71527209772681
[deg] Pointing Roll	141.067215	141.2973435140746
[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)	537804000.184000	537802867.28953
Observation start date	2015-01-16T13:58:53	2015-01-16T13:41:07
[s] Observation end time (MET)	537814000.184000	537814566.1276799
Observation end date	2015-01-16T16:45:33	2015-01-16T16:56:06
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	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



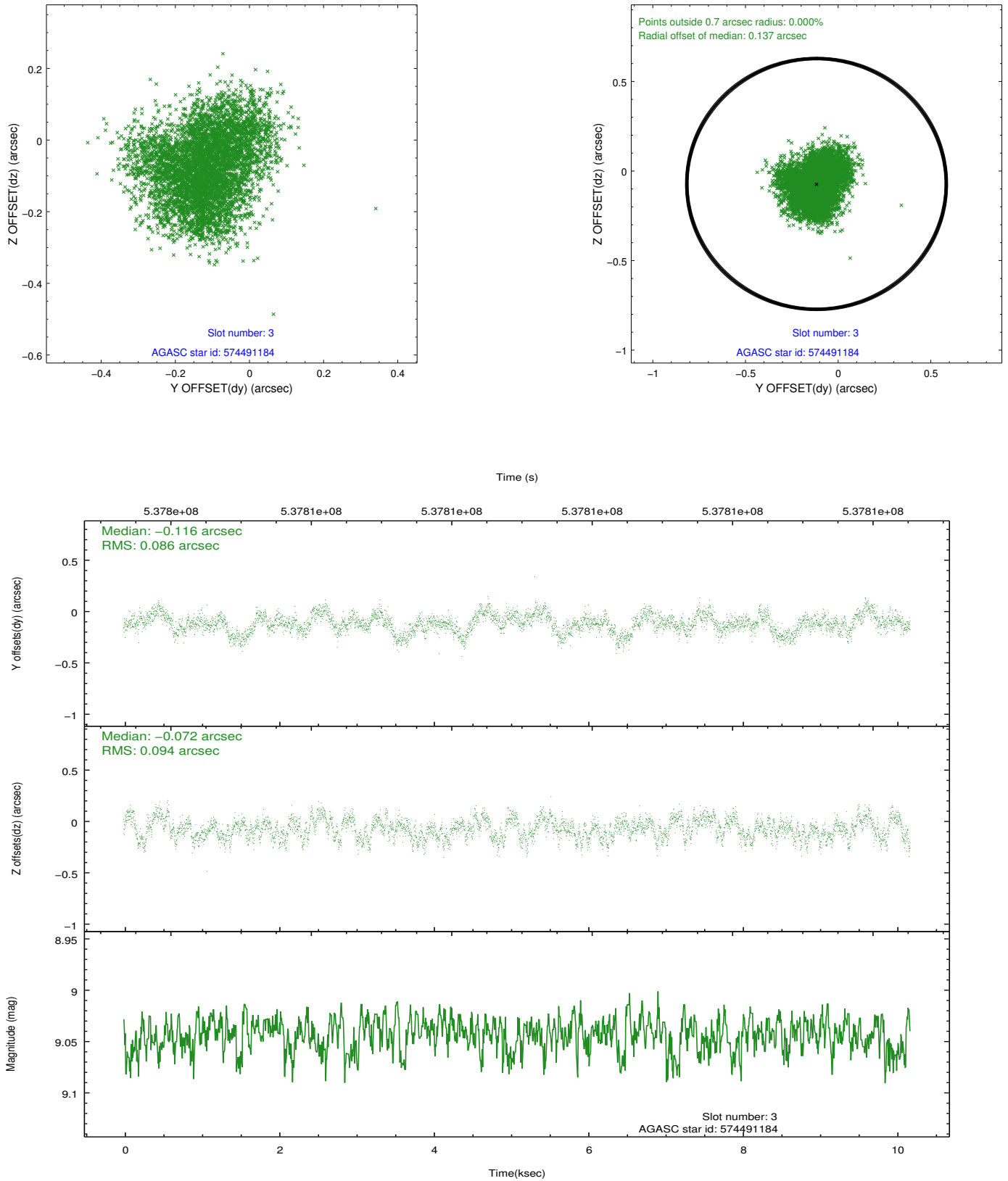


Slot Statistics

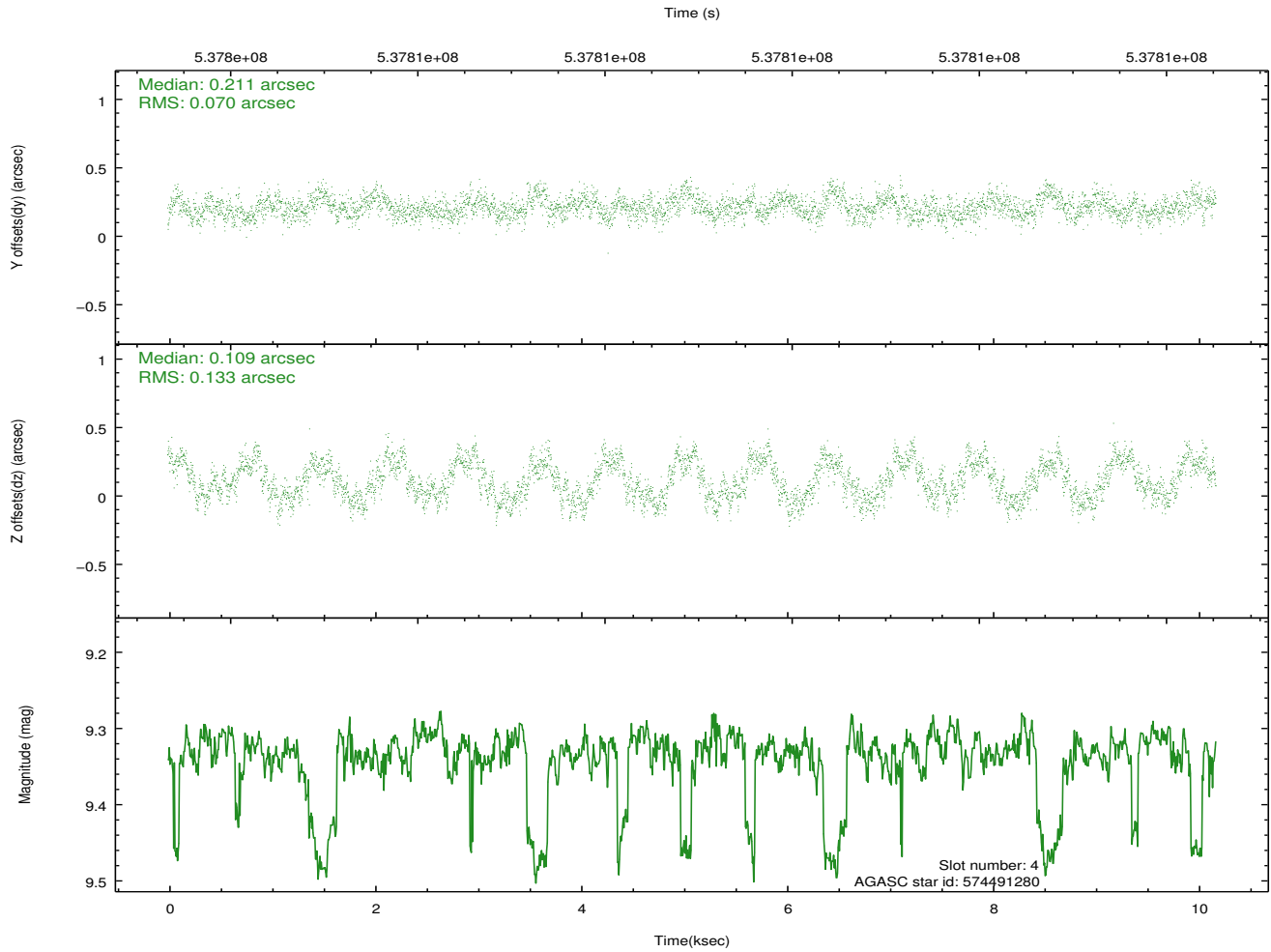
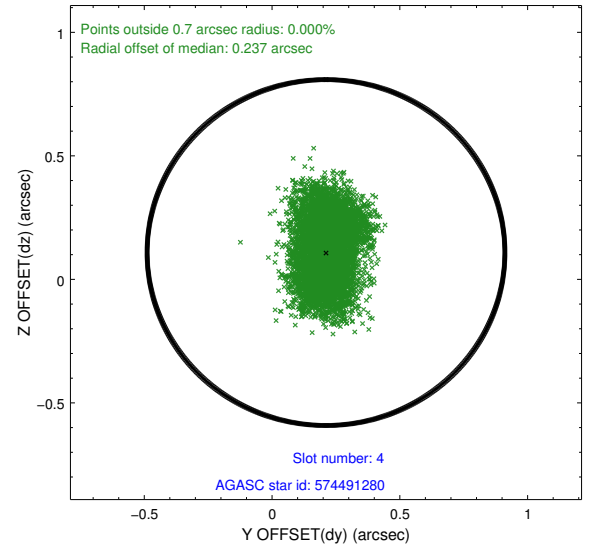
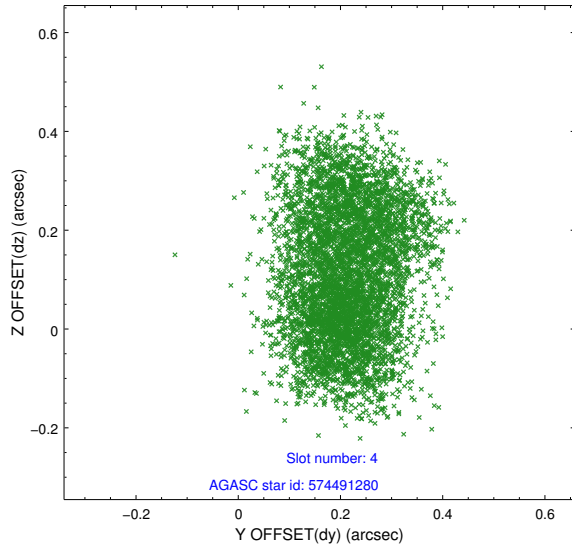
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	2483	-0.203	-0.070	0.015	0.024	0.000000	0.000000	-778.24	-1743.23
1	FID		ACIS-S-4	7.07	2483	0.416	0.117	0.005	0.010	0.000000	0.000000	2135.45	164.84
2	FID		ACIS-S-5	7.08	2484	-0.244	-0.038	0.015	0.025	0.000000	0.000000	-1830.43	159.02
3	GUIDE	used	574491184	9.04	4965	-0.116	-0.072	0.139	0.212	148.582453	69.768699	433.75	84.19
4	GUIDE	used	574491280	9.33	4959	0.211	0.109	0.166	0.251	148.611567	69.450135	-310.28	959.43
5	GUIDE	used	574491872	9.22	4963	-0.124	-0.174	0.118	0.193	147.207613	69.765453	1772.63	1151.51
6	GUIDE	used	574886496	8.47	4967	0.153	0.371	0.174	0.239	148.945563	70.041136	699.53	-960.99
7	GUIDE	used	574489568	9.72	4852	-0.133	-0.235	0.167	0.268	147.223974	69.438157	1043.91	2070.91

2.4 Star Slots

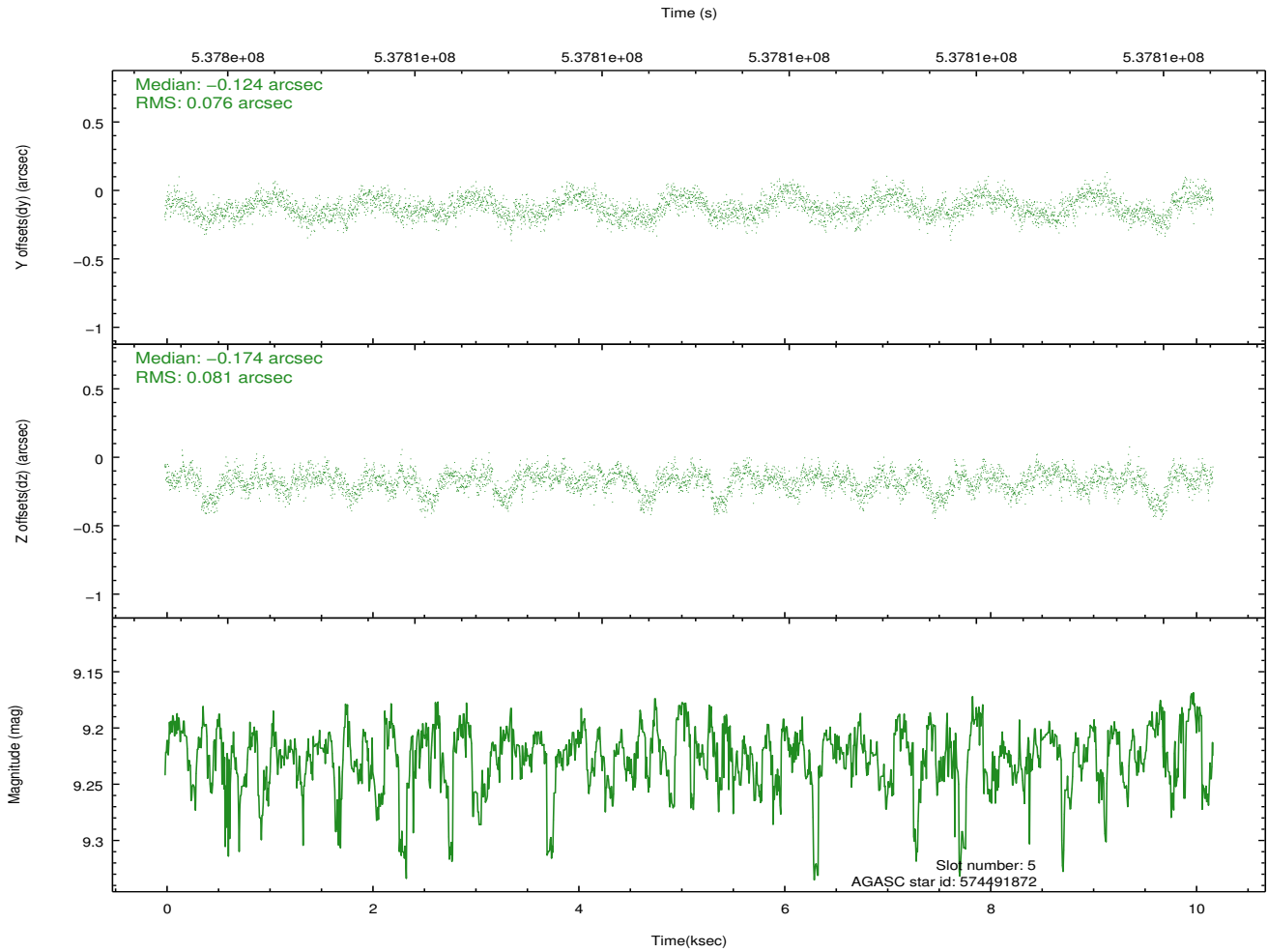
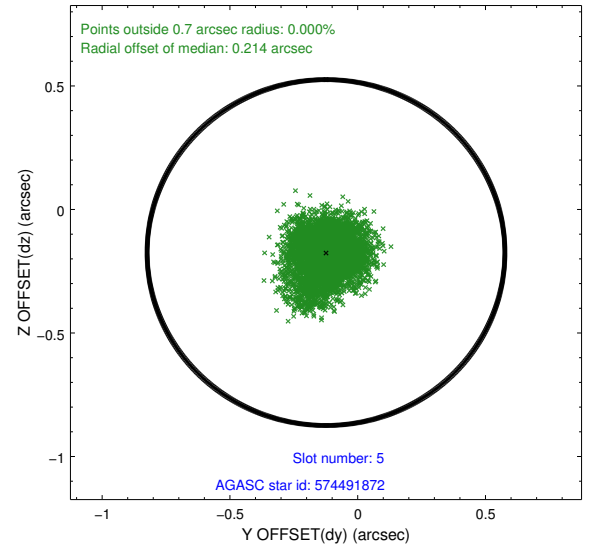
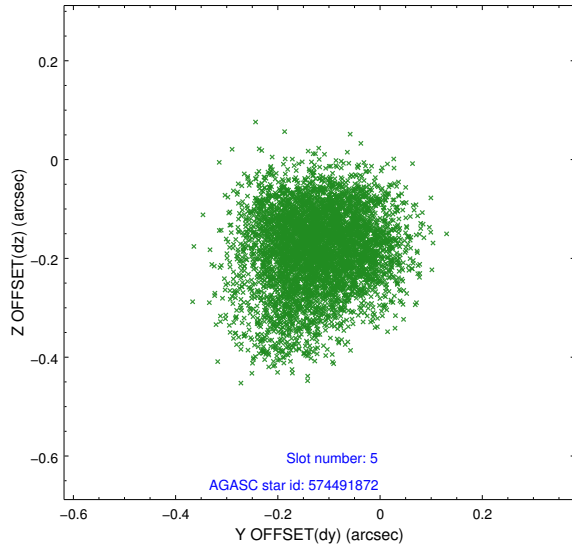
2.4.1 Slot 3



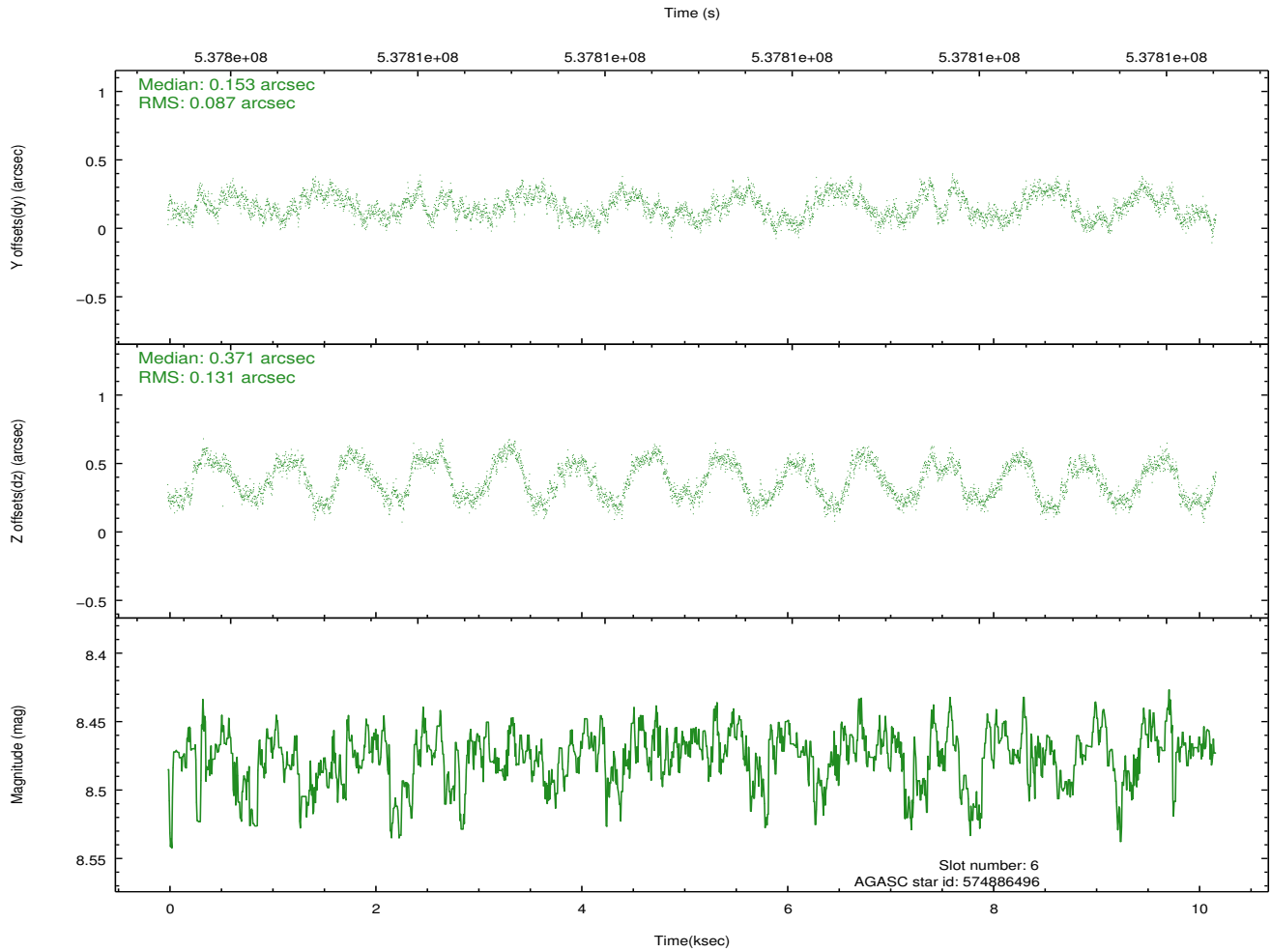
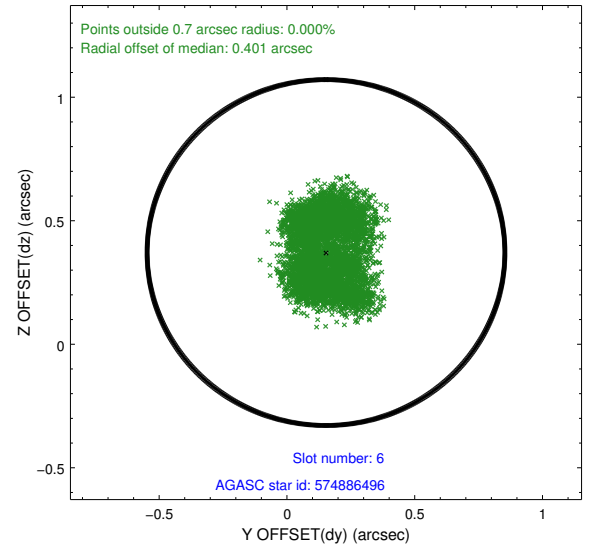
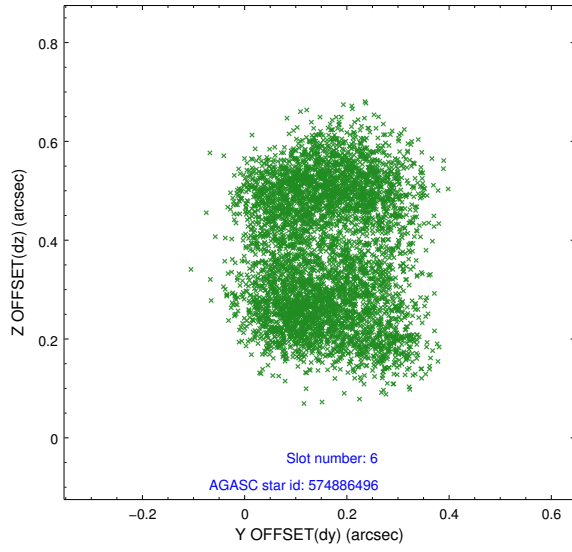
2.4.2 Slot 4



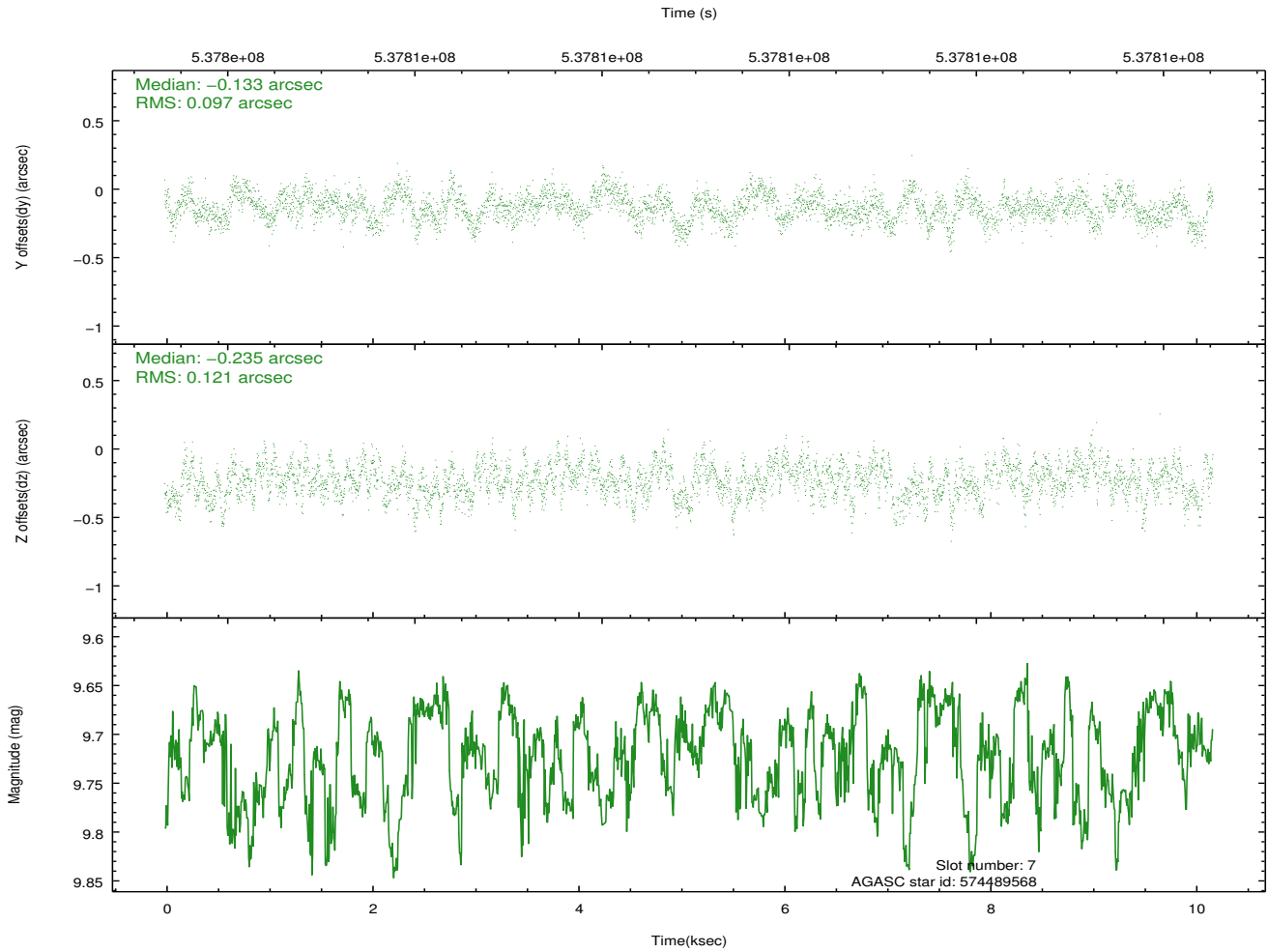
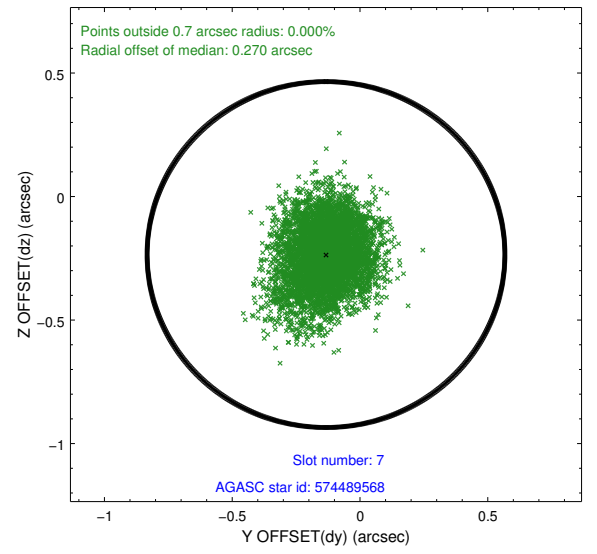
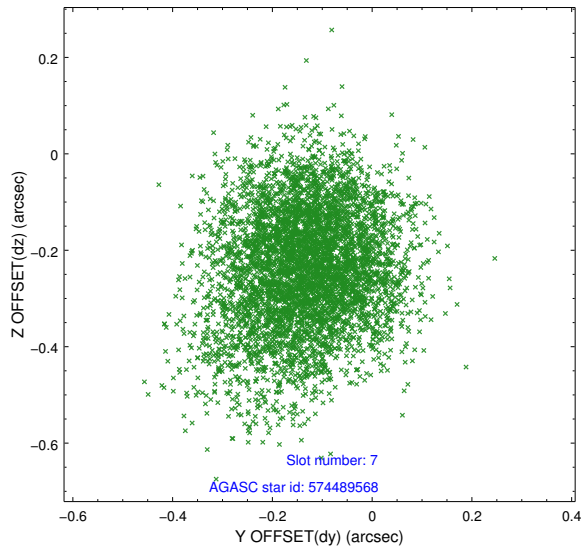
2.4.3 Slot 5



2.4.4 Slot 6

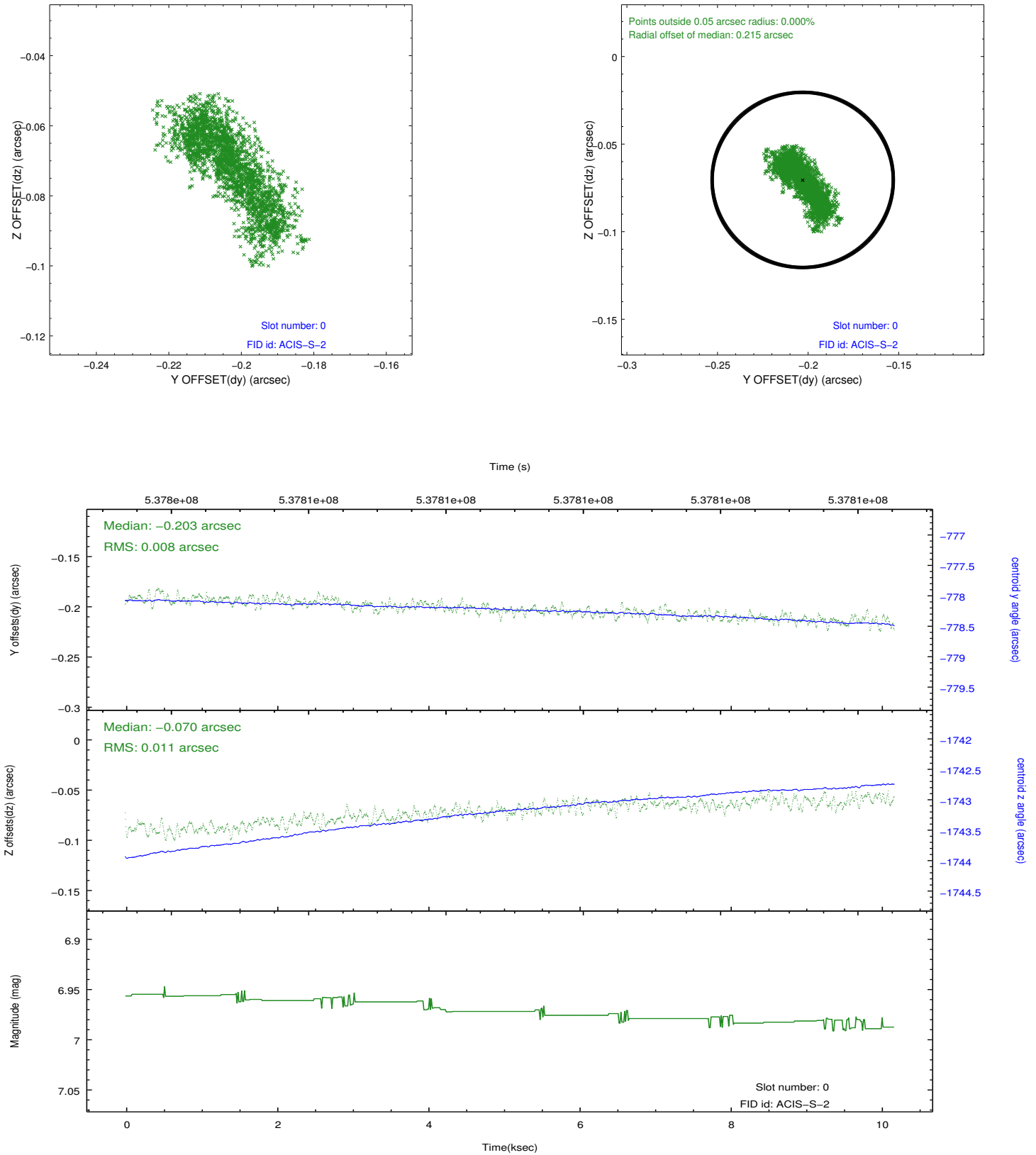


2.4.5 Slot 7

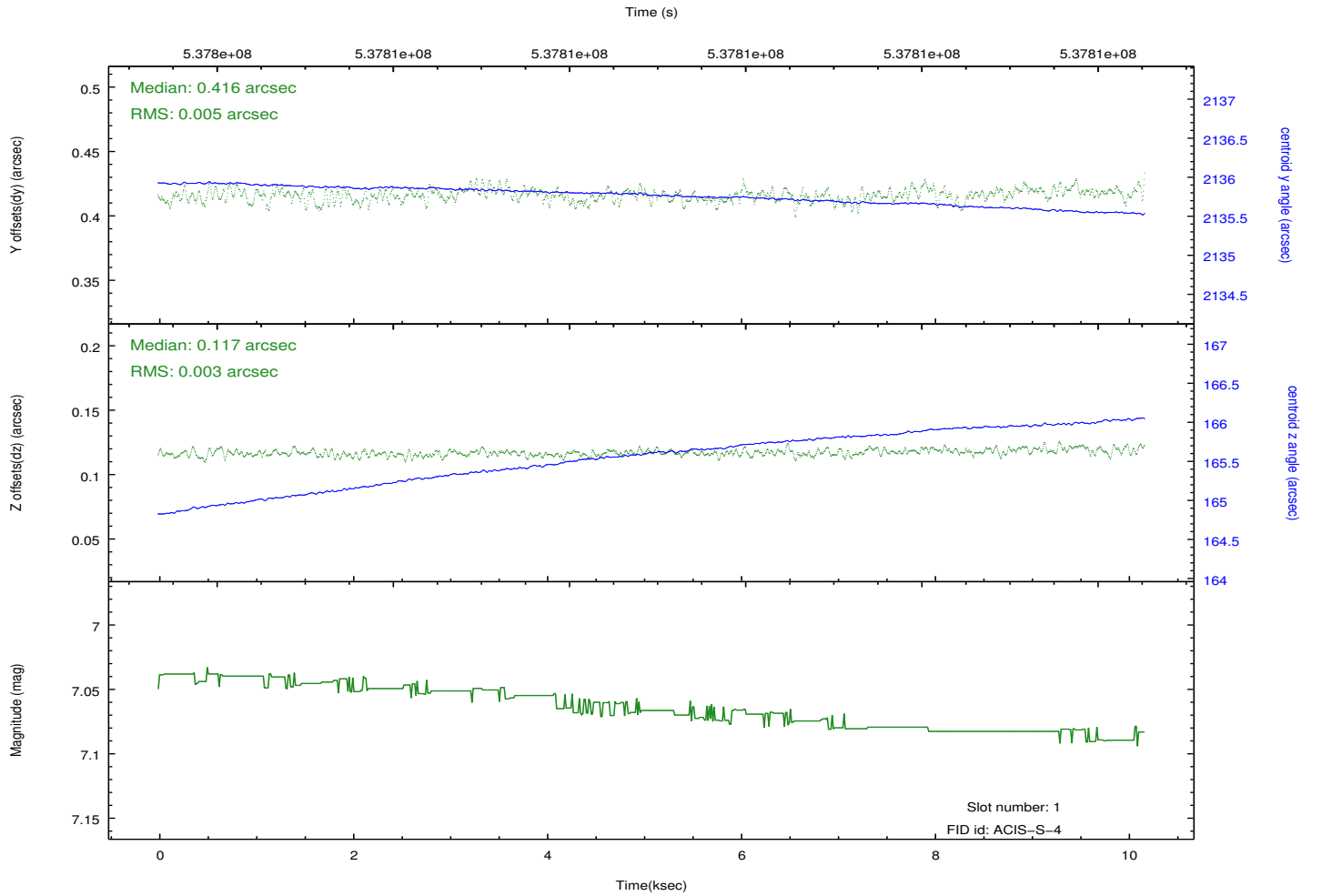
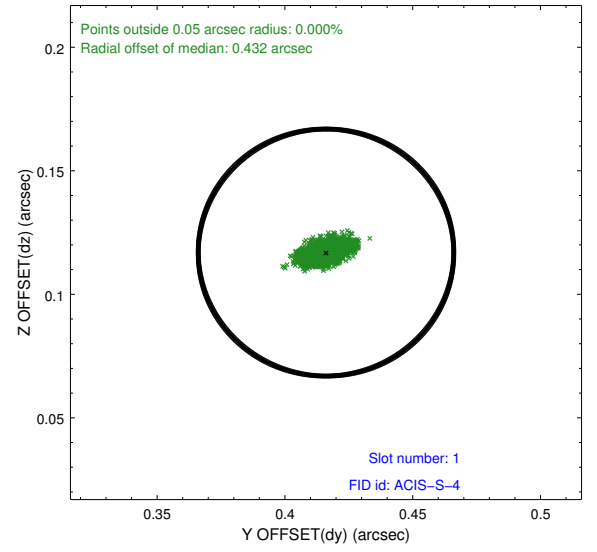
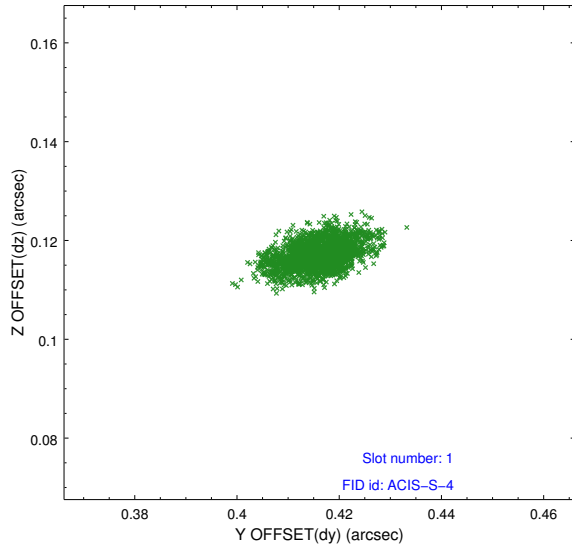


2.5 FID Slots

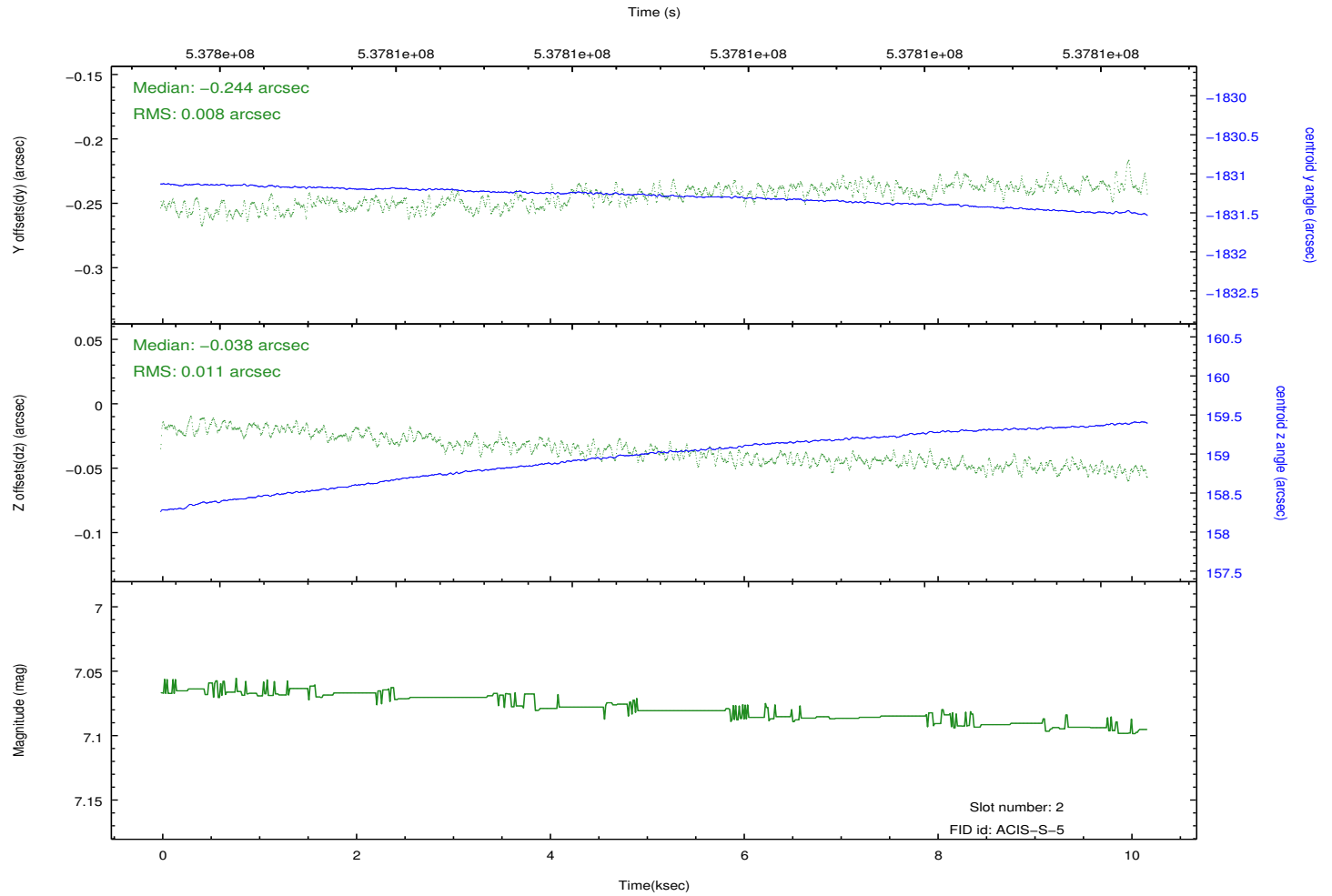
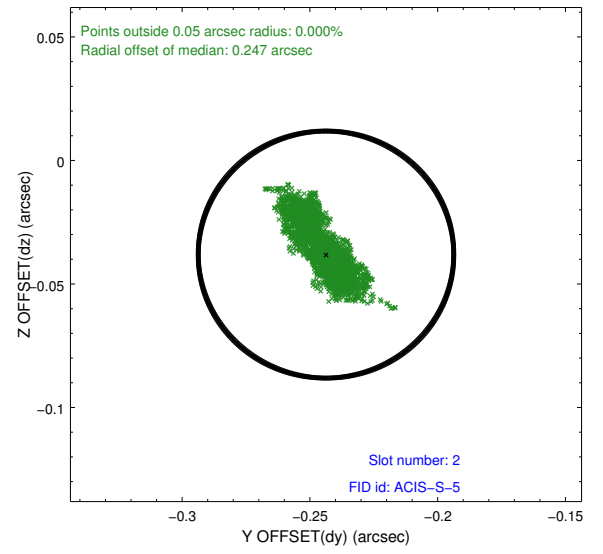
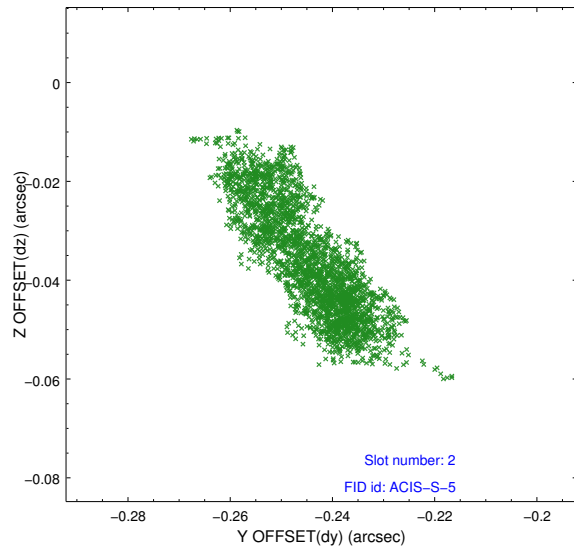
2.5.1 Slot 0



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)	2015.01.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.069136758208

A.2 Comments