

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22147 - L2 Version 1
Chandra X-Ray Center

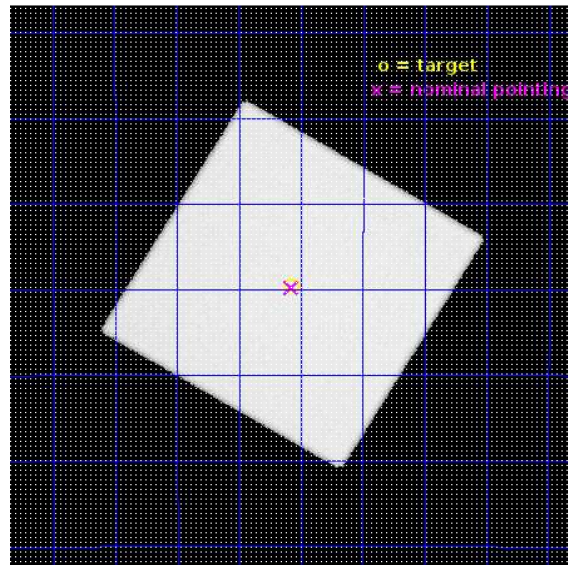
L2 Processing Date : Jul 14 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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

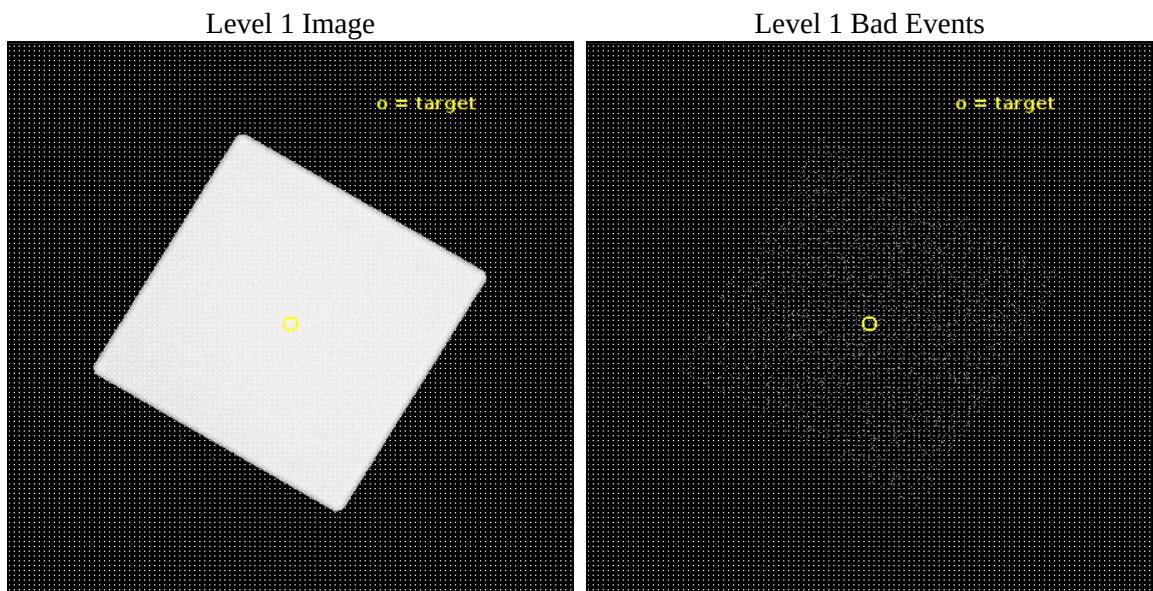
seq_num	100177	Sequence number
obs_id	22147	Observation id
title	Is X-ray Aurora Produced by Magnetic Unloading?	Proposal title
observer	William Dunn	Principal investigator
object	Jupiter	Source name
ra_targ	254.267273	Observer's specified target RA [deg]
dec_targ	-22.160301	Observer's specified target Dec [deg]
ra_nom	254.26911349337	Nominal RA [deg]
dec_nom	-22.163350982279	Nominal Dec [deg]
roll_nom	255.90518493757	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23098.376388073	[s]
livetime	22655.697785827	Ontime multiplied by DTCOR
l2events	2709227	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	23098.376388073	[s]
caldbver	4.8.3.1	 	l1events	3681680	Number of level 1 events
date	2019-07-14T13:15:42	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

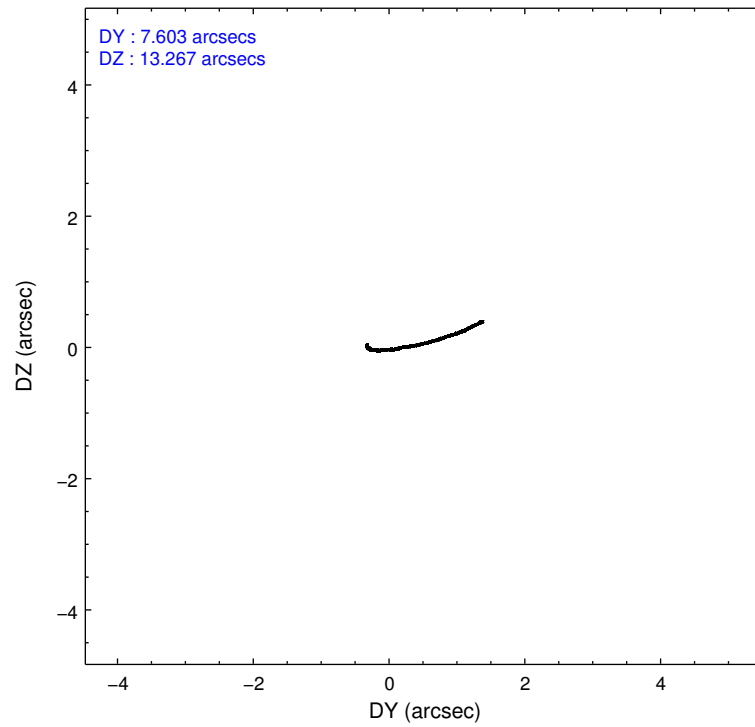
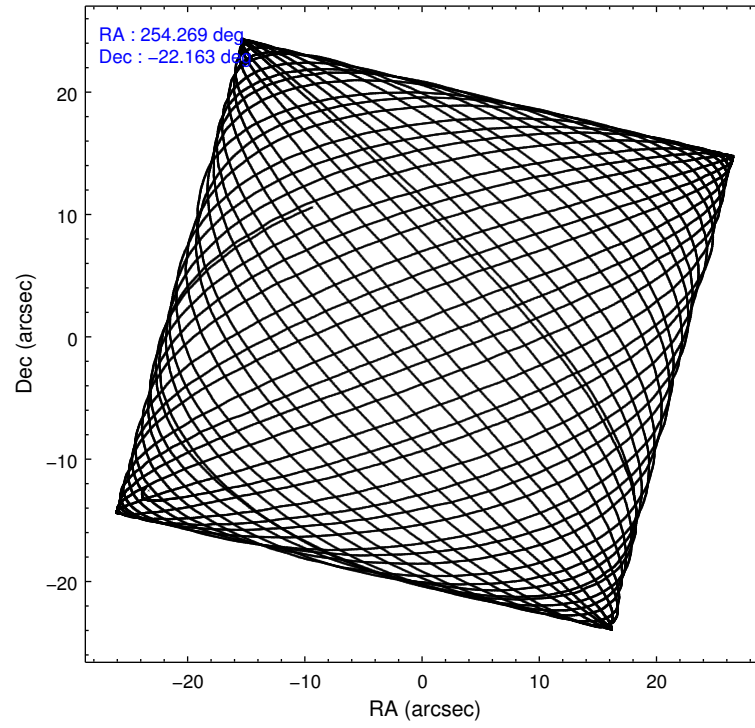
Level 1 Events

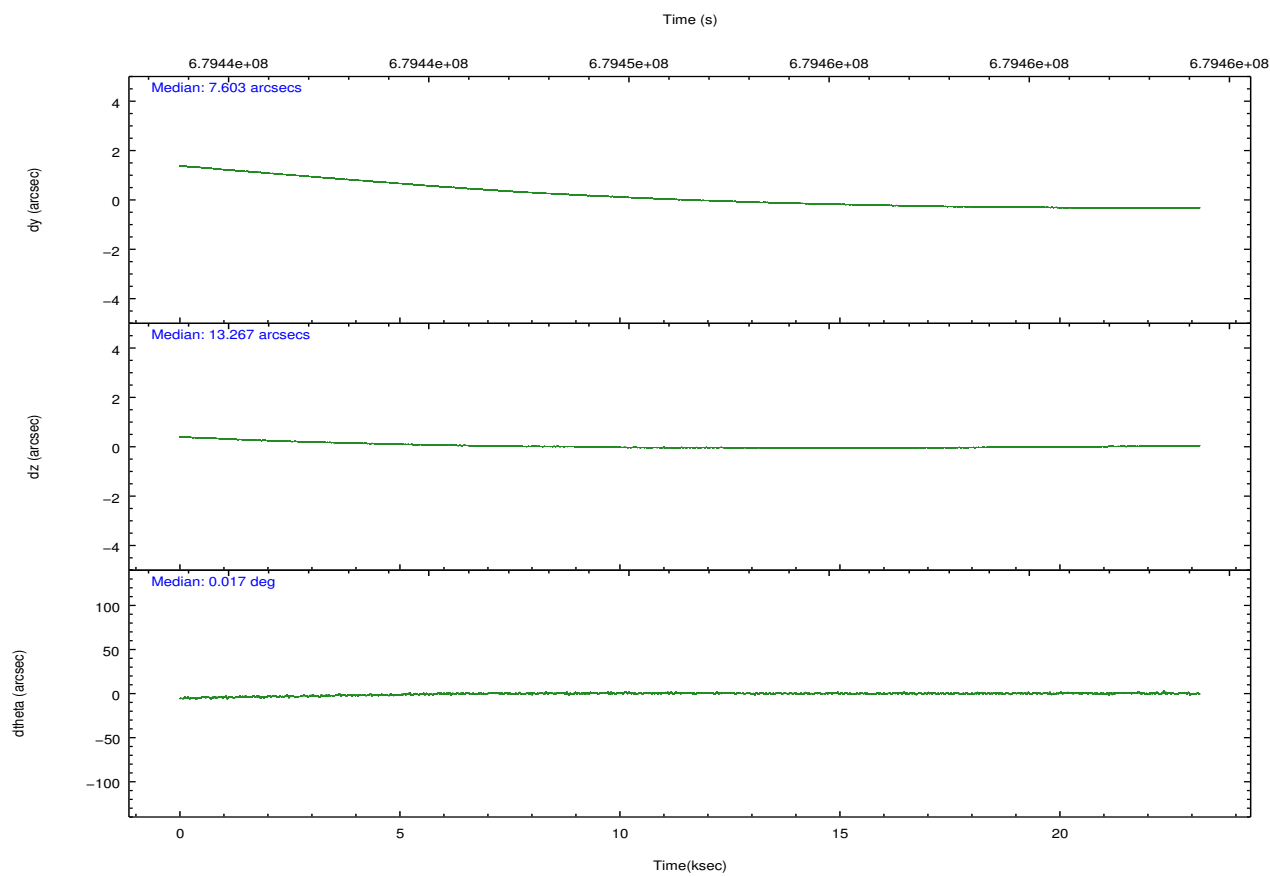
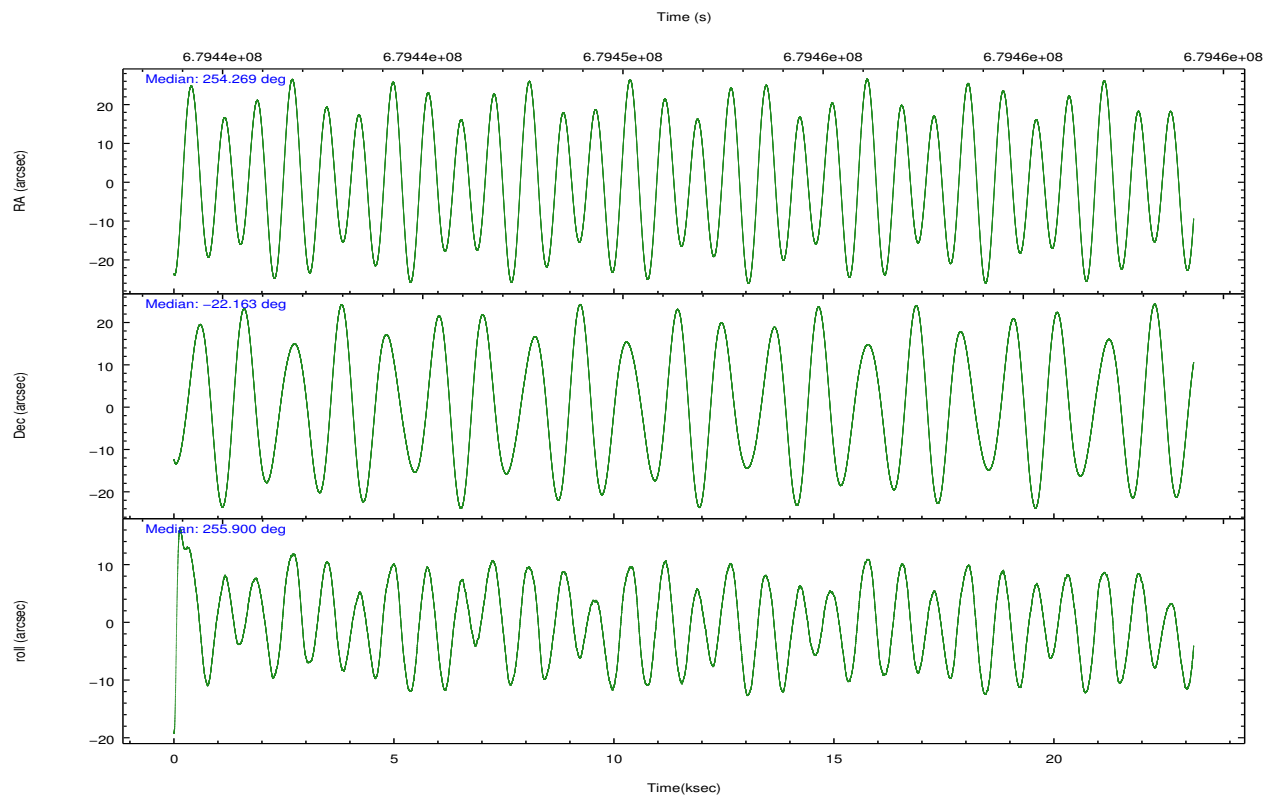
	segment 0
level 1 events	3681680
rejected events	100842
rejected %	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	254.260426	254.2691134933743			
[deg] Pointing Dec	-22.137229	-22.16335098227854			
[deg] Pointing Roll	255.997420	255.9051849375665			
[s] Window start time (MET)	679440069.184000	679440069.184000			
[s] Window stop time (MET)	679464069.184000	679464069.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	679440091.184000	679439379.16487			
Observation start date	2019-07-13T21:20:22	2019-07-13T21:09:39			
[s] Observation end time (MET)	679463091.184000	679464374.81637			
Observation end date	2019-07-14T03:43:42	2019-07-14T04:06:14			

2.3 Aspect



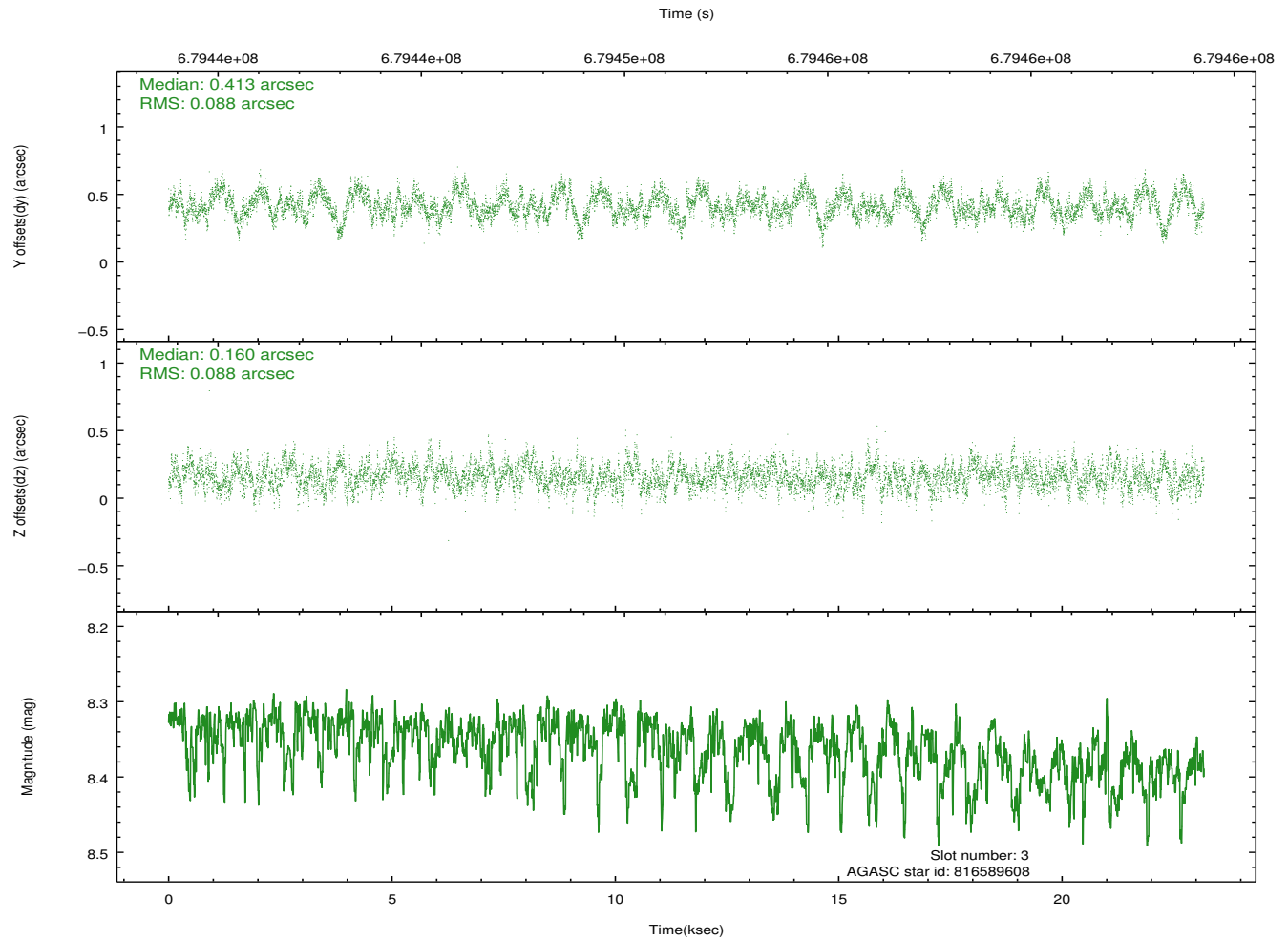
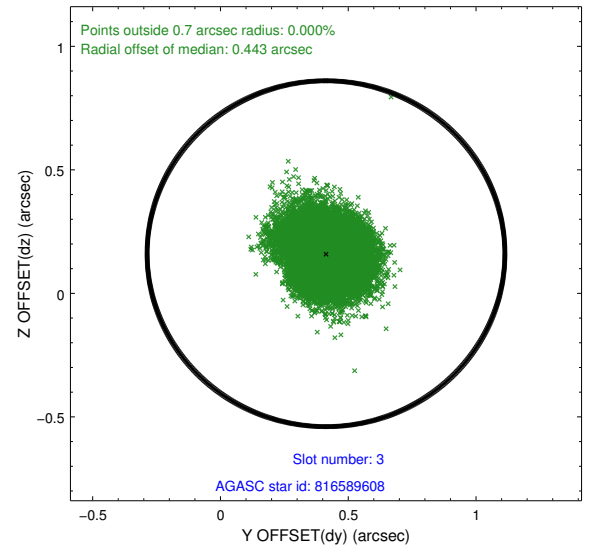
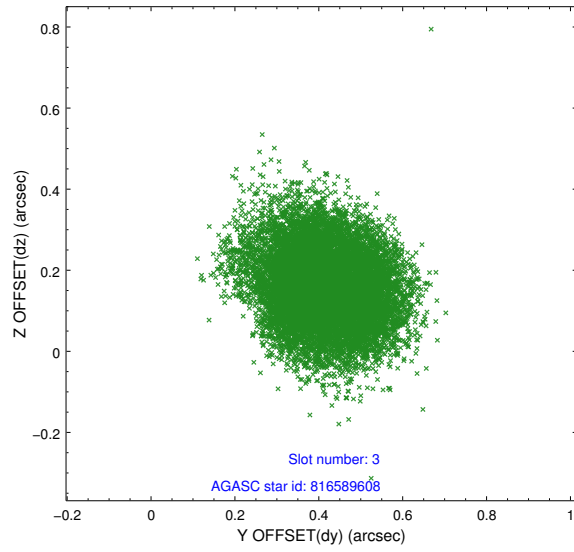


Slot Statistics

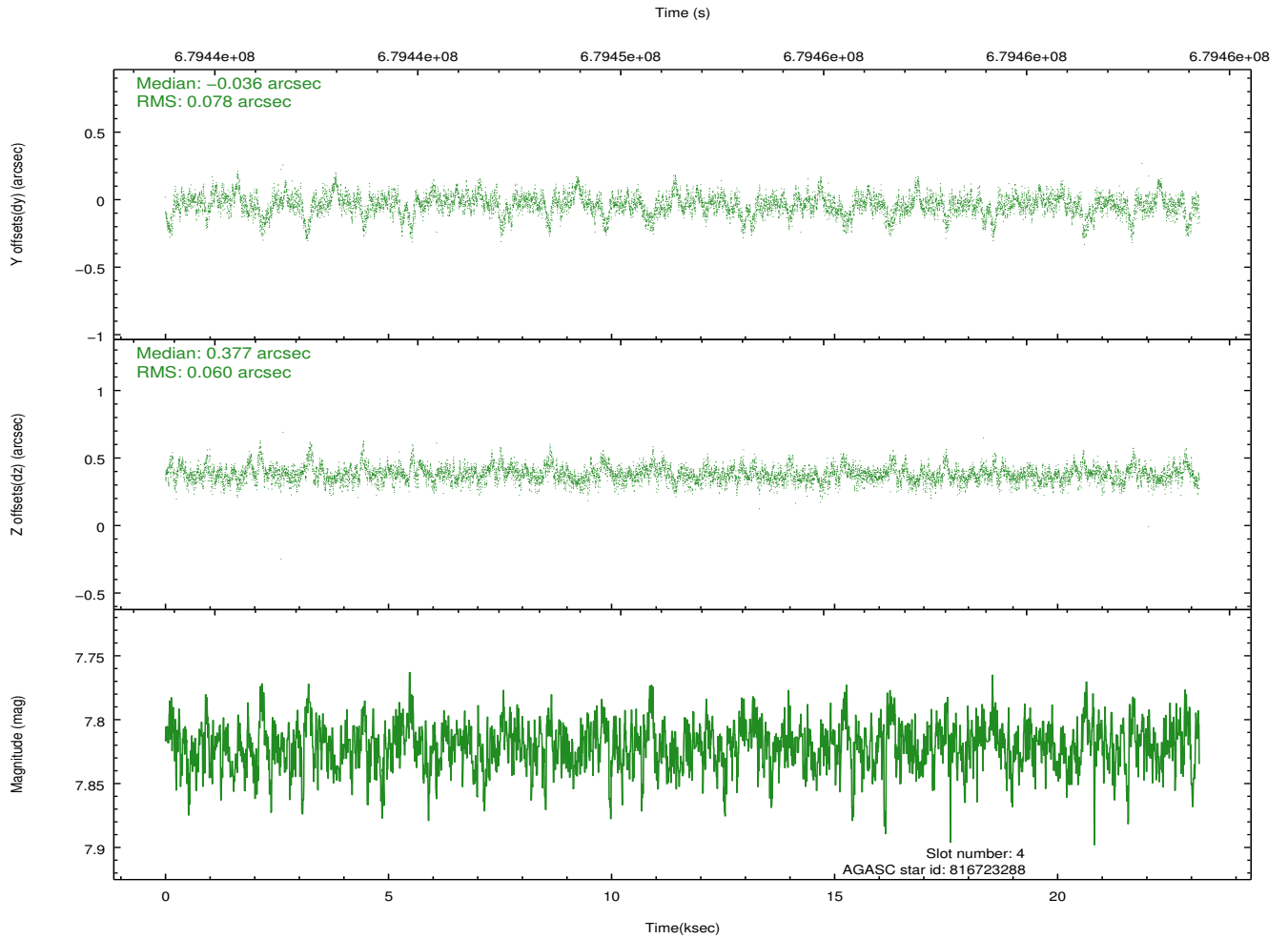
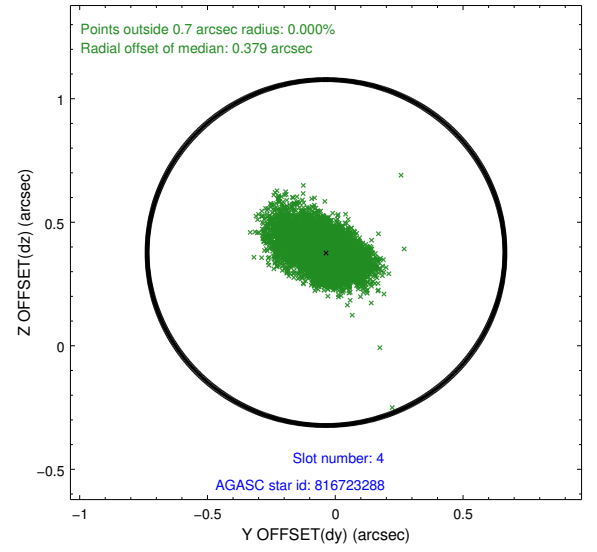
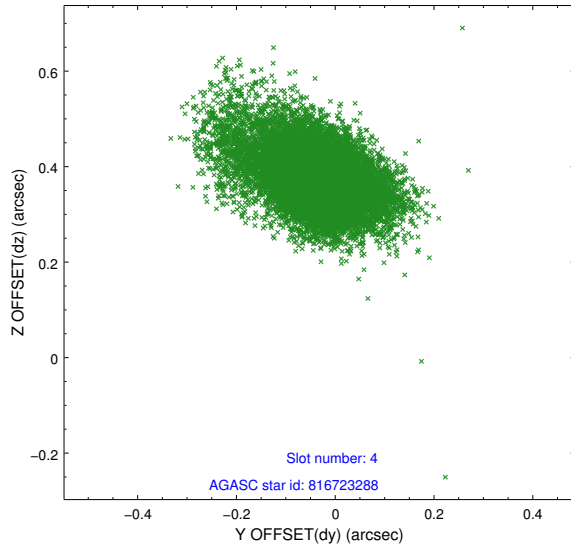
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.05	5653	1.000	-0.307	-0.220	0.011	0.020	0.000000	0.000000	-763.90	-1301
1	FID		HRC-I-2	7.08	5652	1.000	0.206	-0.094	0.017	0.036	0.000000	0.000000	849.11	-1303
2	FID		HRC-I-4	7.10	5652	1.000	0.216	0.225	0.015	0.033	0.000000	0.000000	1279.90	1000
3	GUIDE	used	816589608	8.36	11297	1.000	0.413	0.160	0.135	0.209	253.659974	-21.879606	-409.73	-2169
4	GUIDE	used	816723288	7.82	11304	1.000	-0.036	0.377	0.098	0.186	254.188785	-21.796597	-1131.67	-528
5	GUIDE	used	816725024	8.40	11296	1.000	-0.205	0.098	0.104	0.188	254.689455	-21.769583	-1629.18	1072
6	GUIDE	used	892600464	8.86	11298	1.000	0.050	-0.339	0.156	0.248	254.248920	-22.576721	1544.50	345
7	GUIDE	used	892603544	8.93	11293	1.000	-0.226	-0.293	0.130	0.216	254.823740	-22.668918	1407.50	2279

2.4 Star Slots

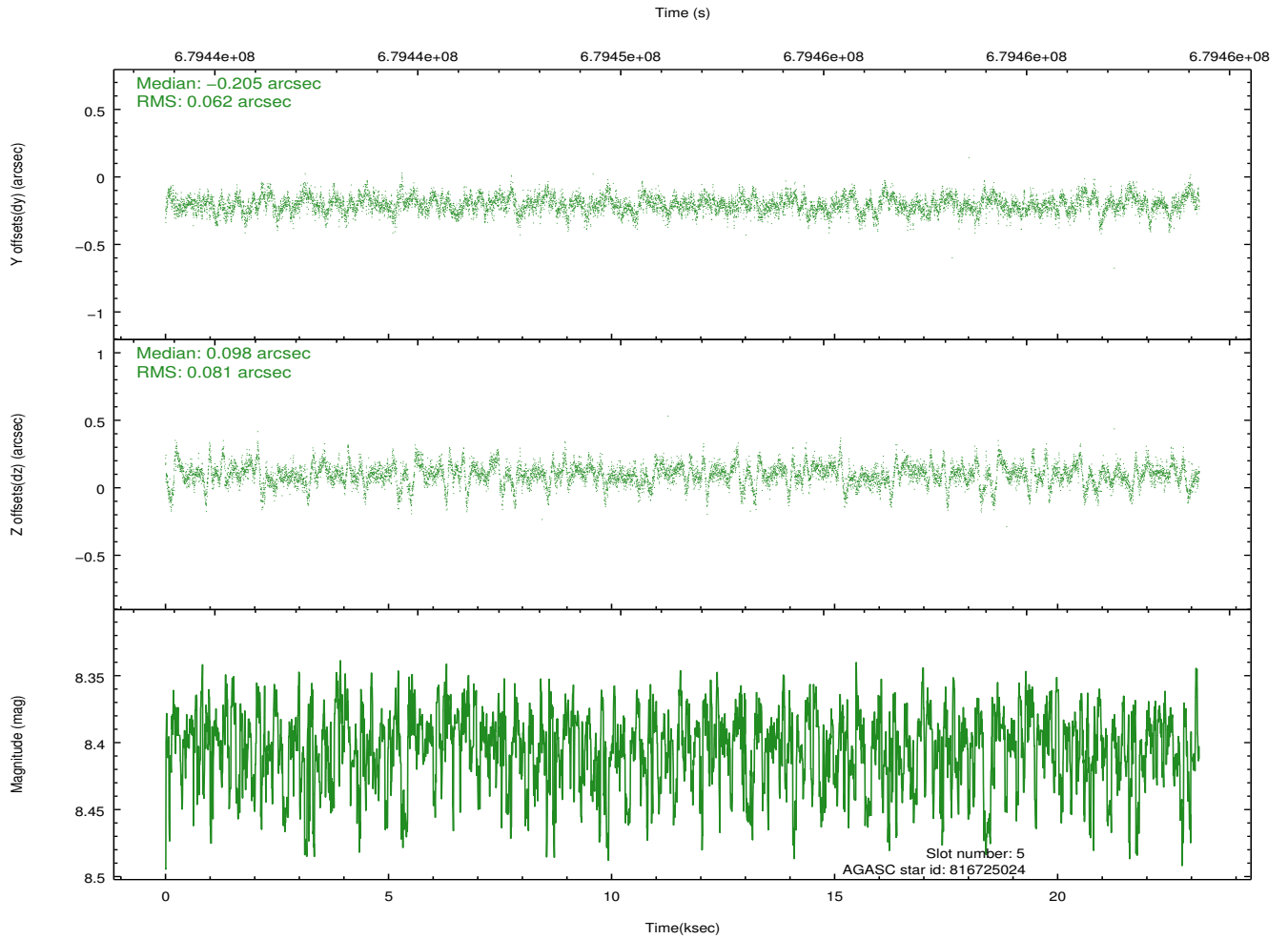
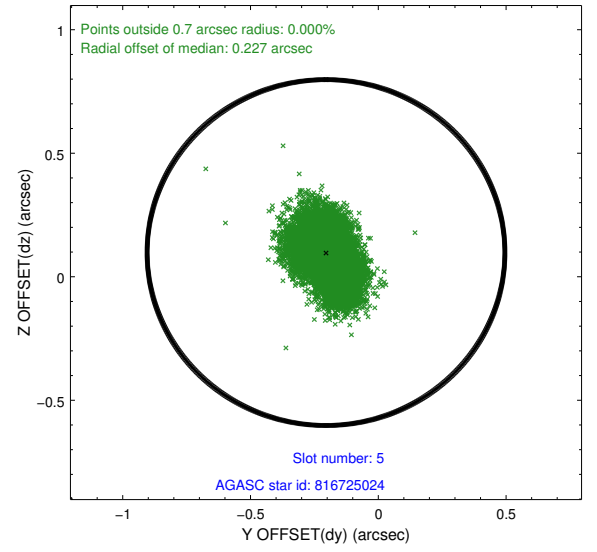
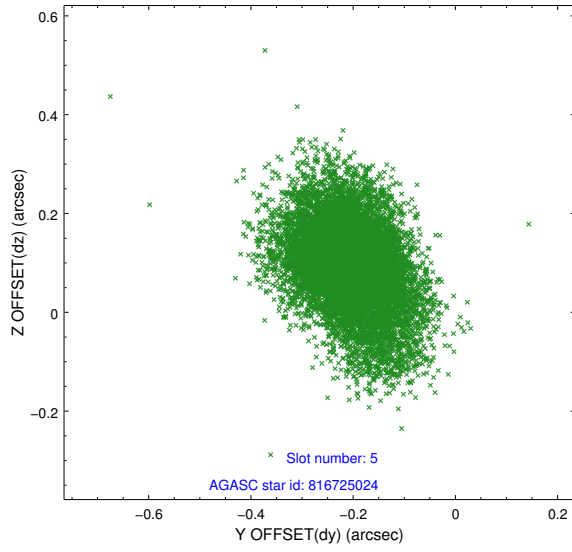
2.4.1 Slot 3



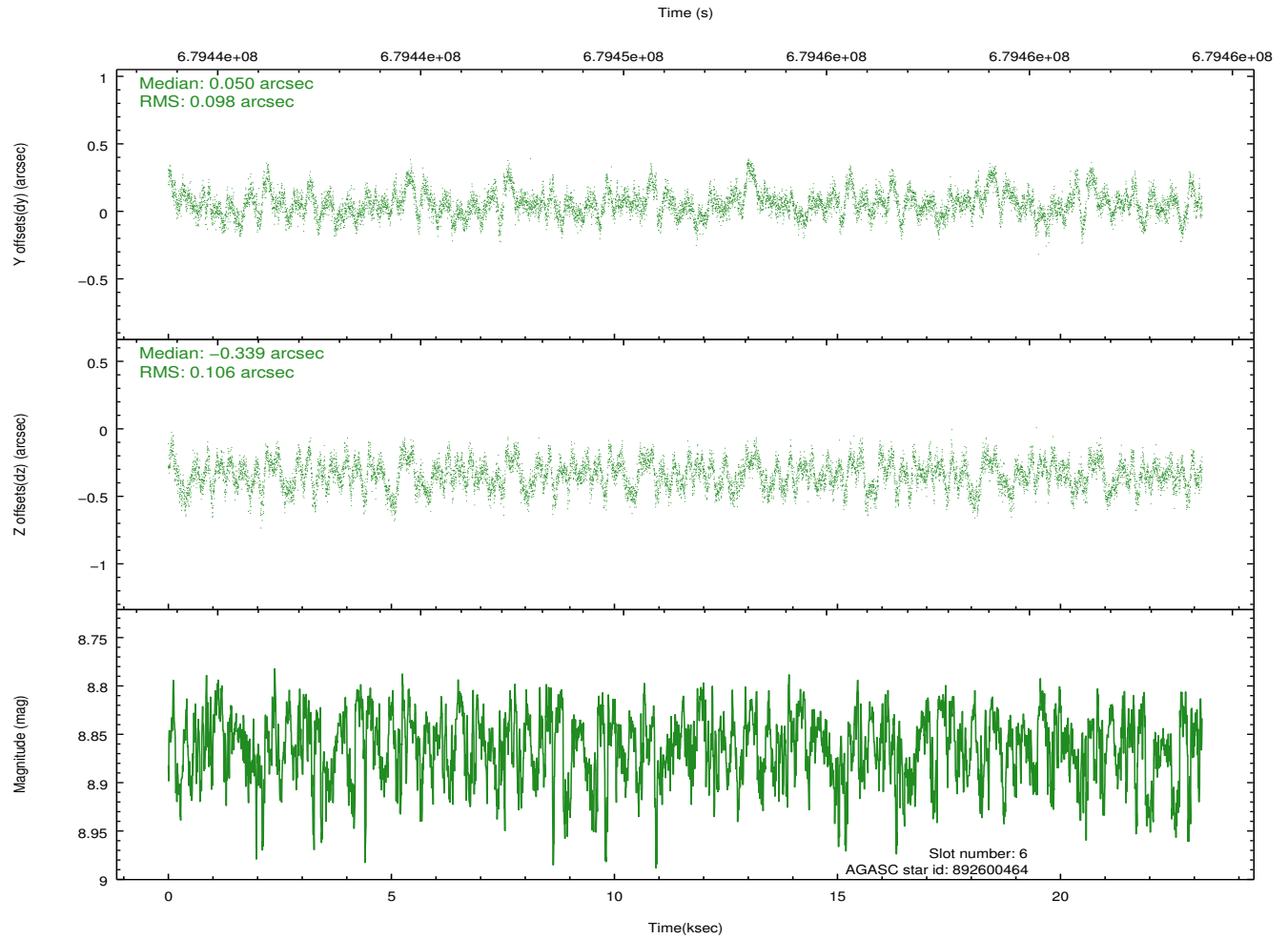
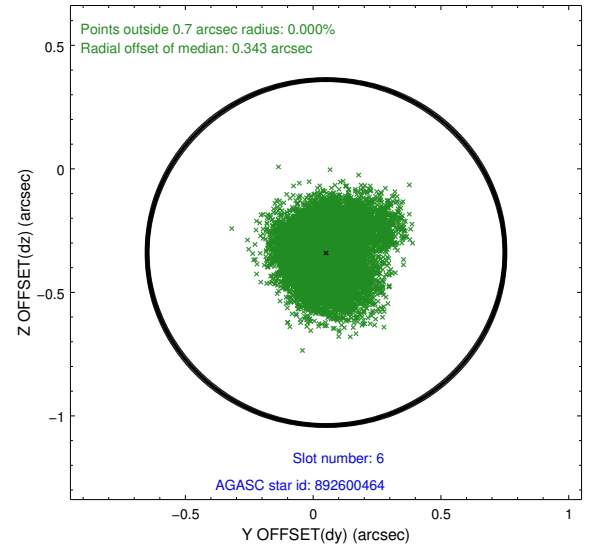
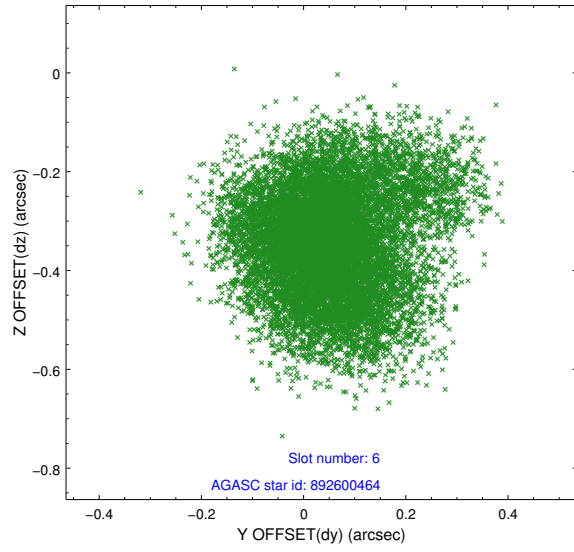
2.4.2 Slot 4



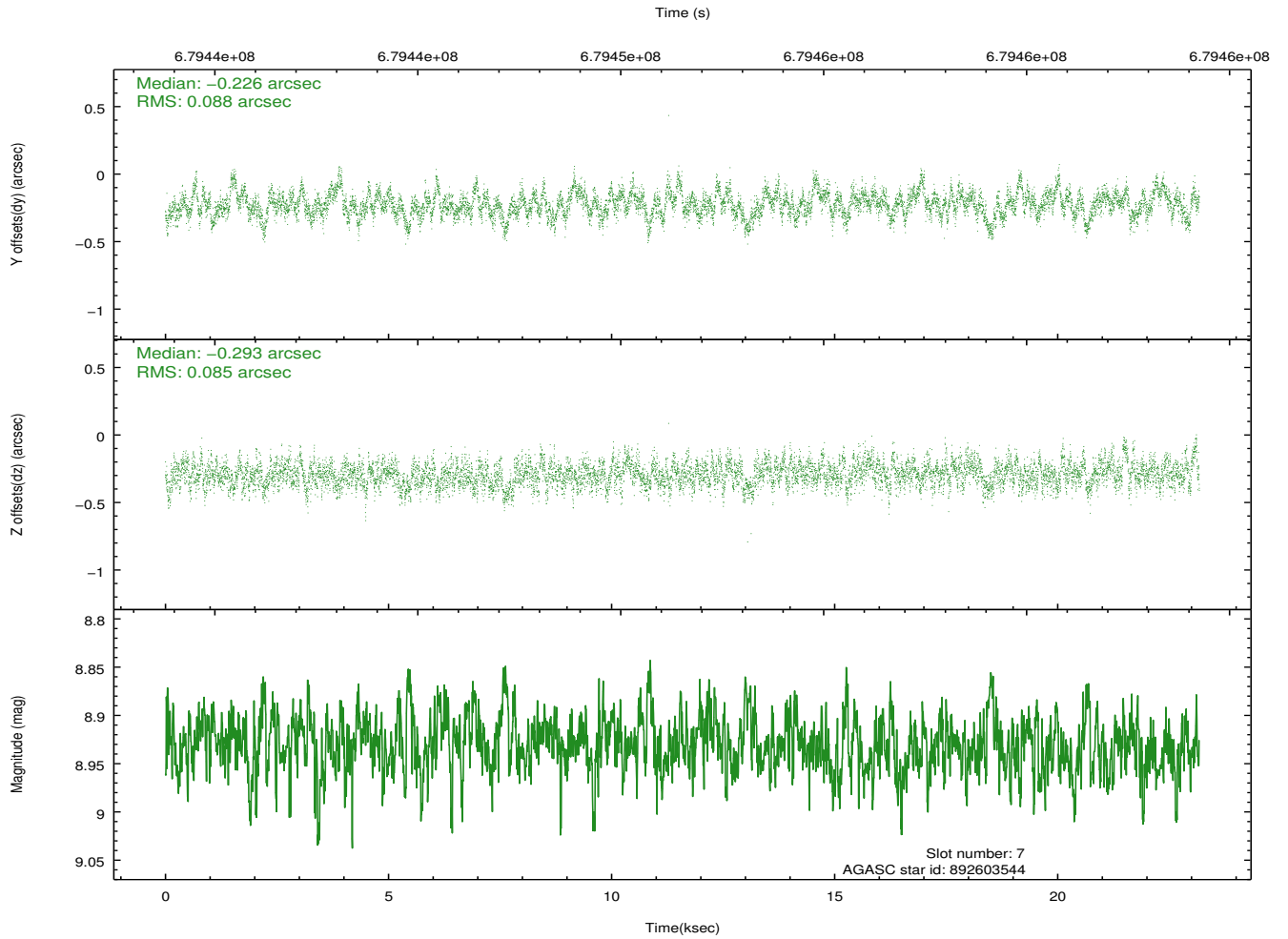
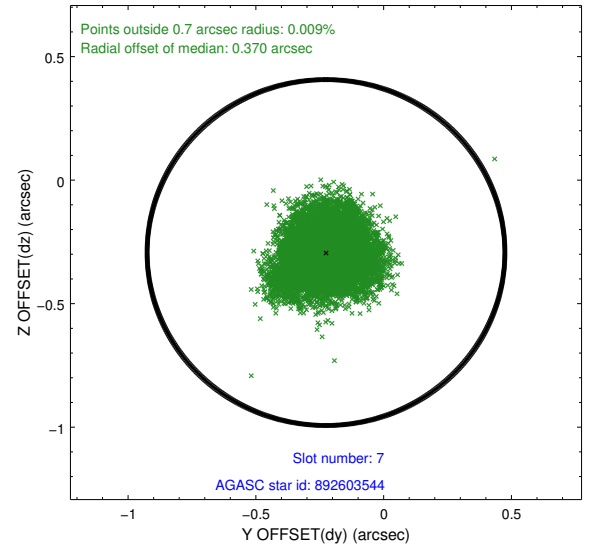
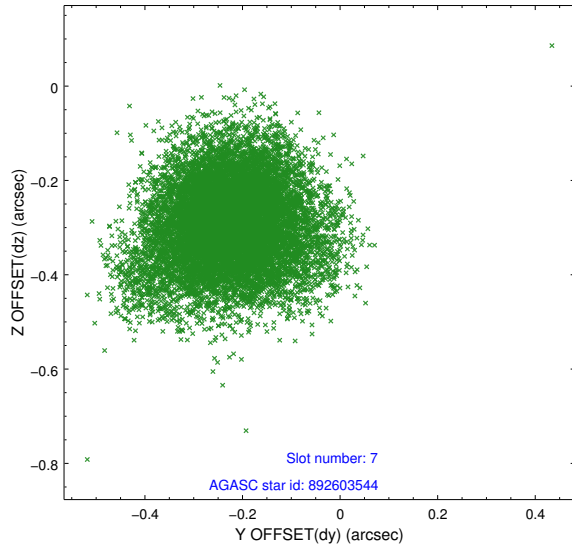
2.4.3 Slot 5



2.4.4 Slot 6

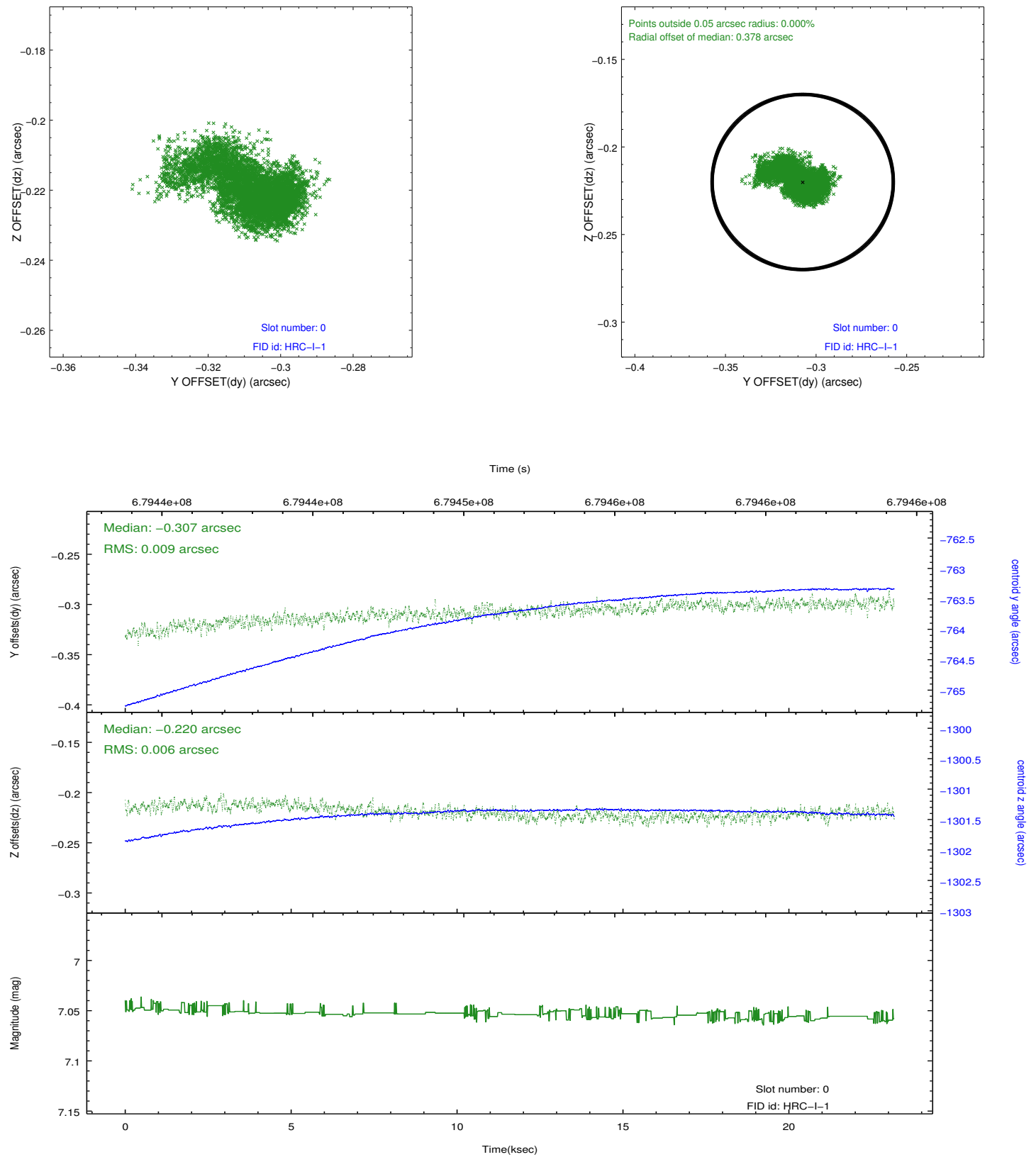


2.4.5 Slot 7

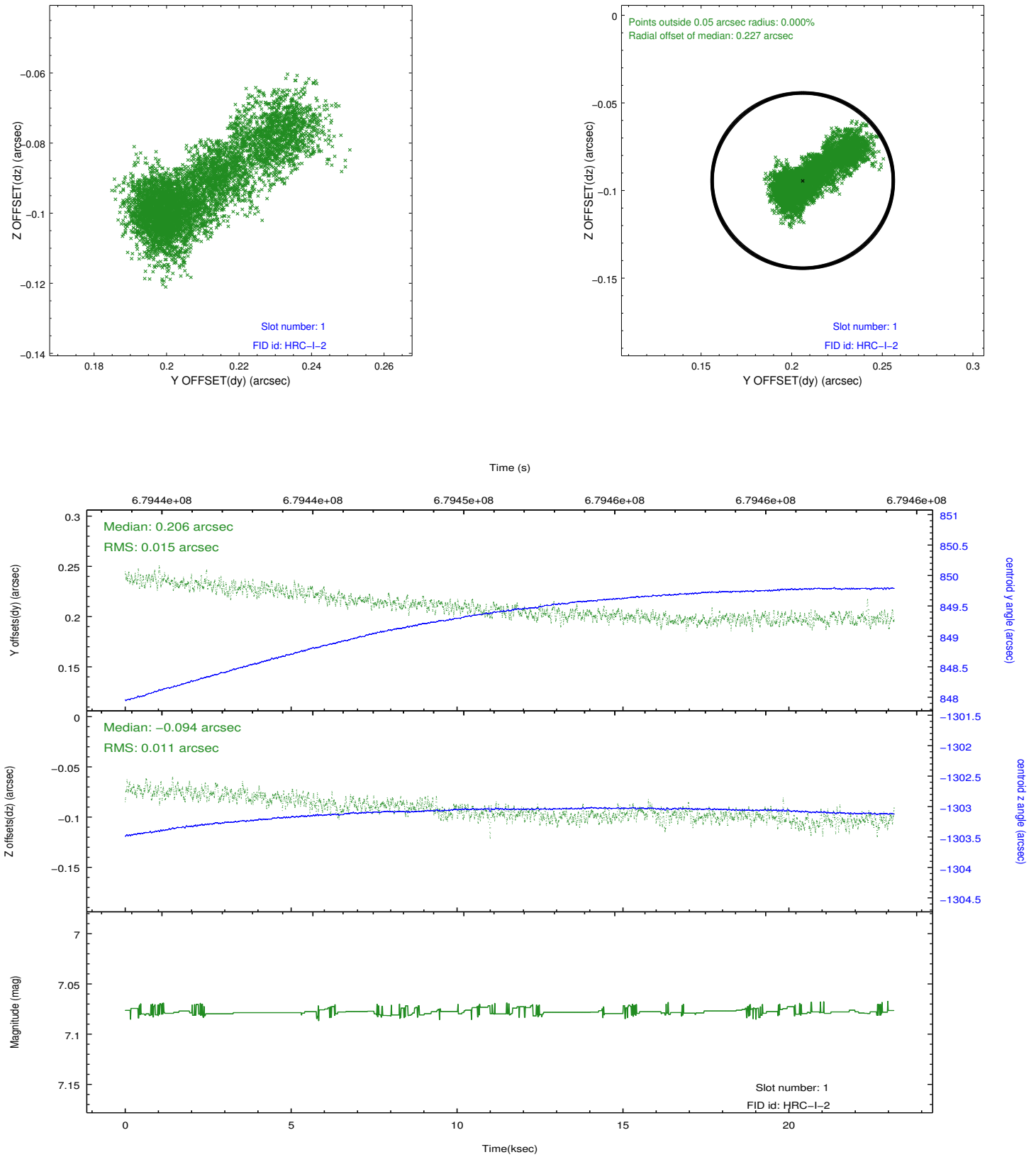


2.5 FID Slots

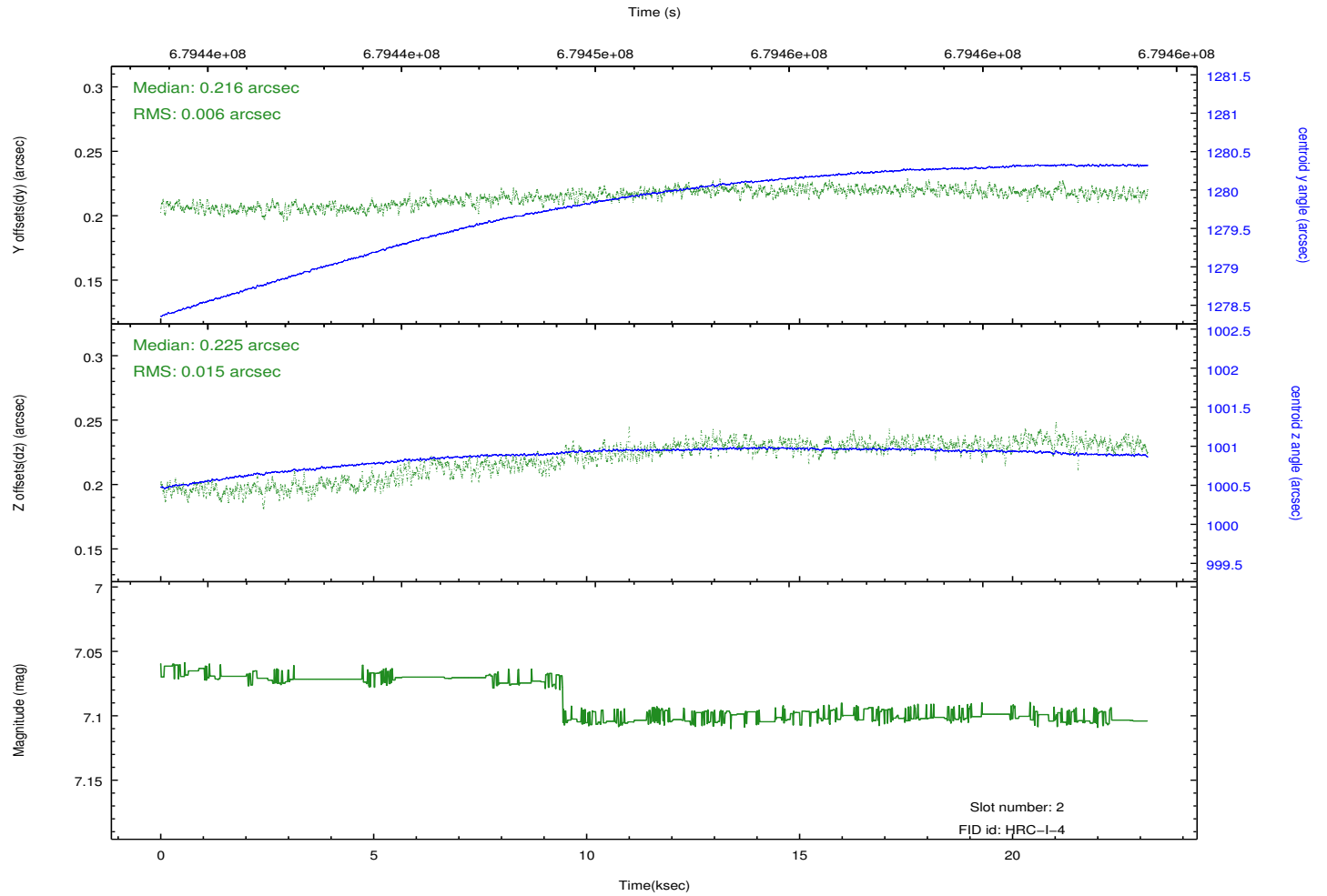
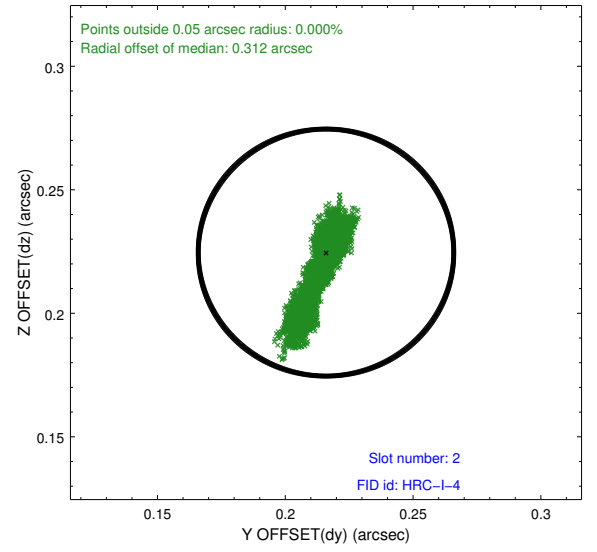
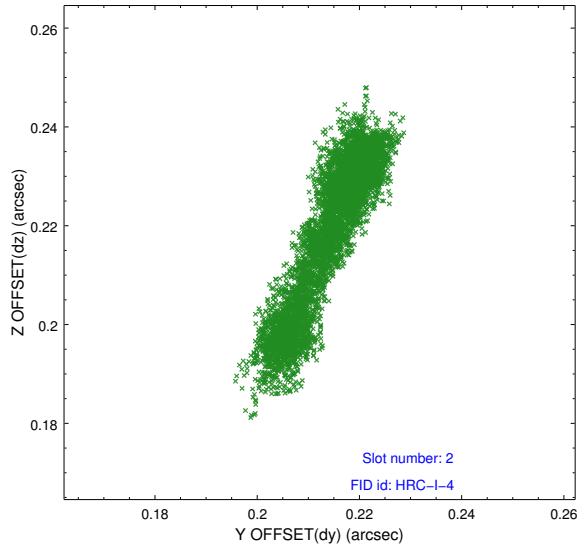
2.5.1 Slot 0



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)	2019.07.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.098376388073

A.2 Comments

Joint proposal with XMM.

Window constraint met.

This is an observation of a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.