

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14400 - L2 Version 2
Chandra X-Ray Center

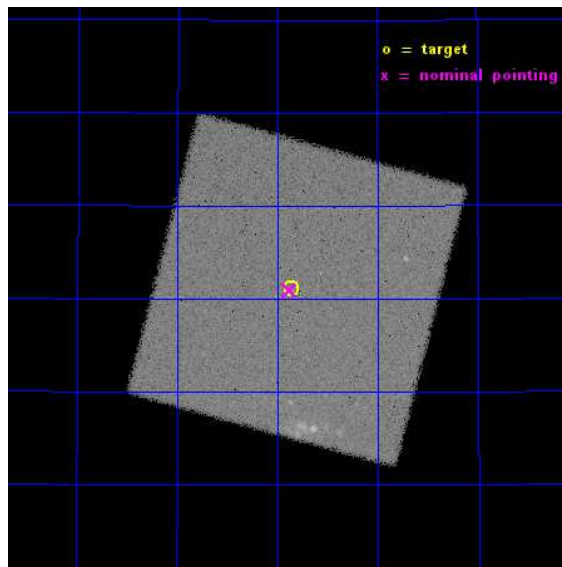
L2 Processing Date : Dec 1 2014

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1 Front

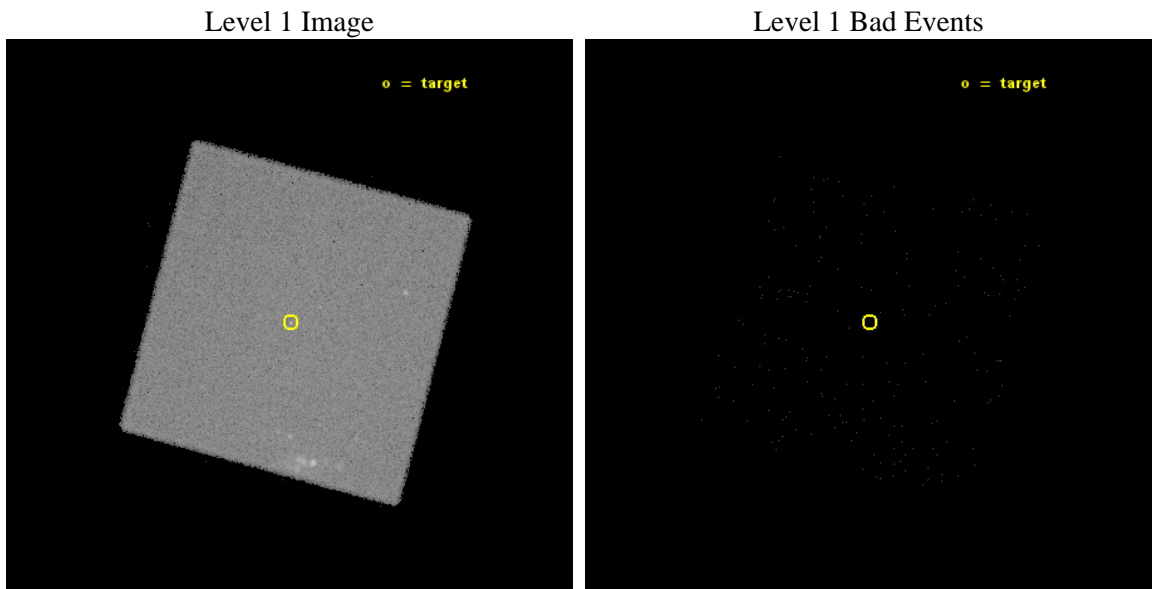
seq_num	401428	Sequence number
obs_id	14400	Observation id
title	A new heavyweight champion for stellar mass BHs? XMM and Chandra investigate	Proposal title
observer	Dr Robin Barnard	Principal investigator
object	XBo 135	Source name
ra_targ	10.716667	Observer's specified target RA [deg]
dec_targ	41.518861	Observer's specified target Dec [deg]
ra_nom	10.719998888668	Nominal RA [deg]
dec_nom	41.515366605219	Nominal Dec [deg]
roll_nom	329.90225481898	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5122.1815264225	[s]
livetime	5077.7308884772	Ontime multiplied by DTCOR
l2events	333280	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5122.1815264225	[s]
caldbver	4.6.4	 	l1events	573269	Number of level 1 events
date	2014-12-01T17:03:57	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

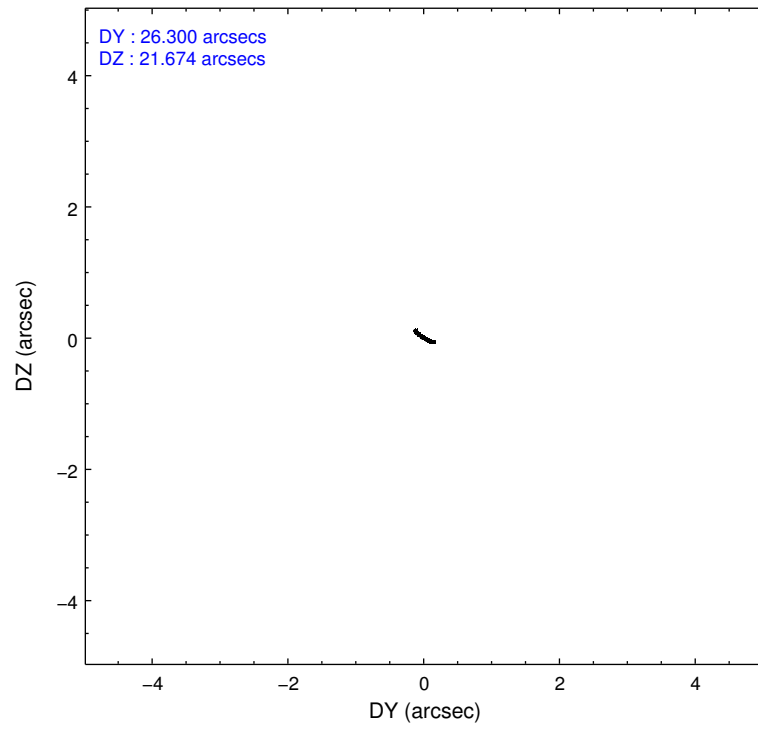
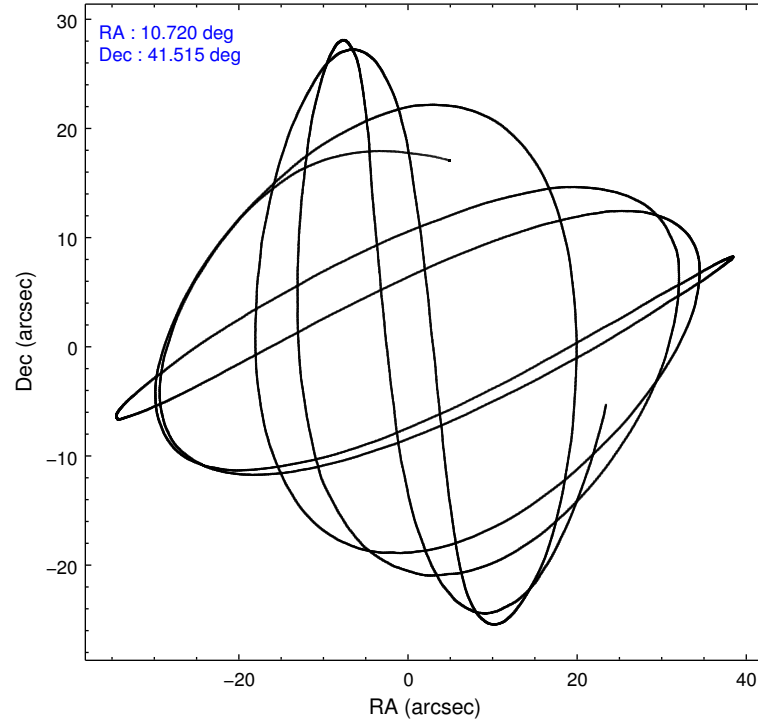
Level 1 Events

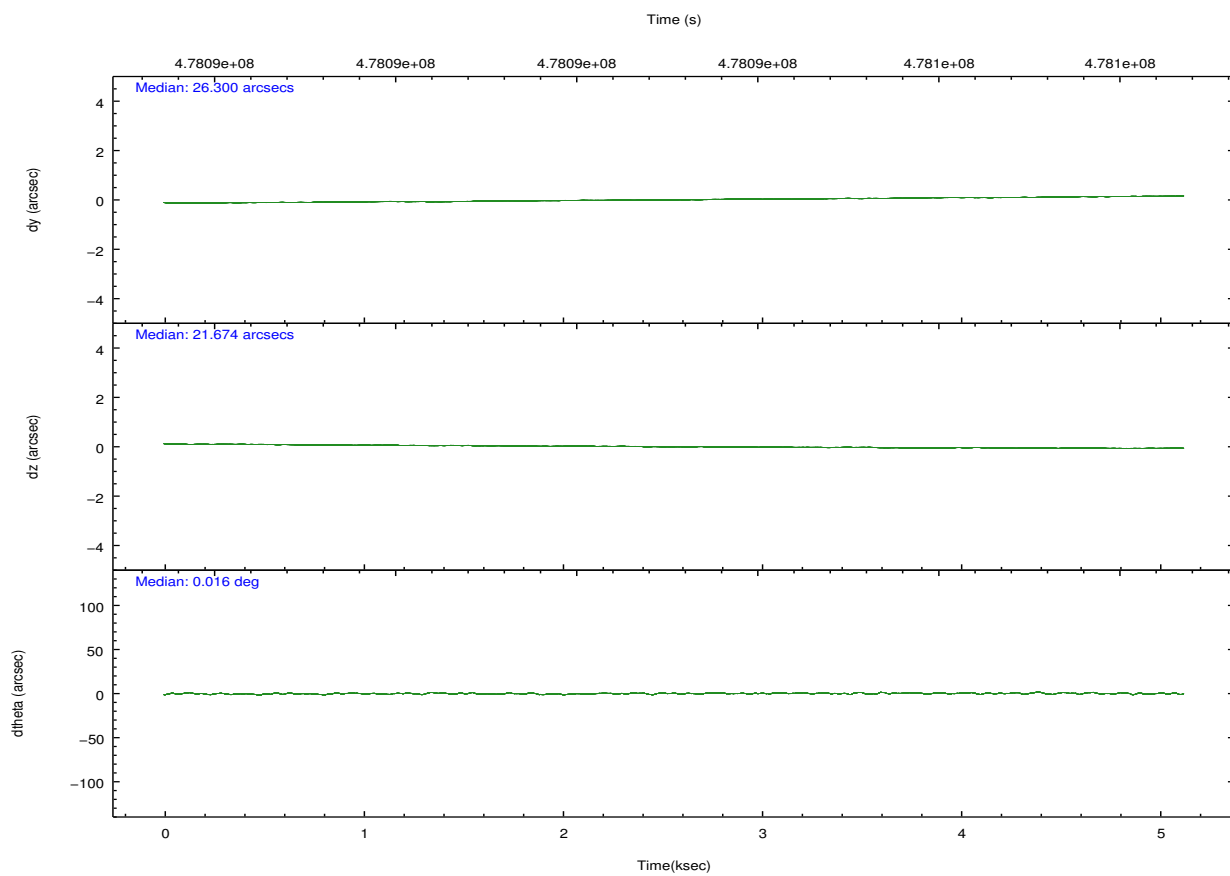
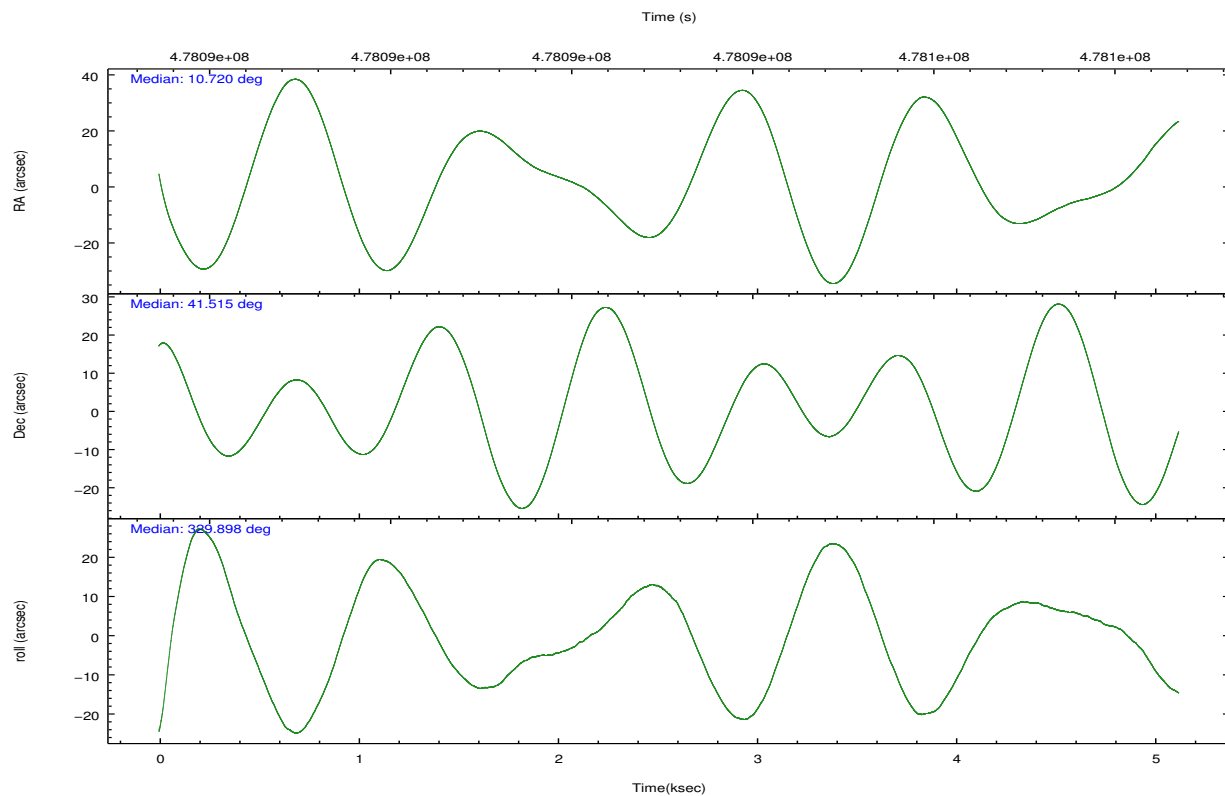
	segment 0
level 1 events	573269
rejected events	119604
rejected %	20%

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	10.683840	10.71999888866765			
[deg] Pointing Dec	41.514952	41.51536660521914			
[deg] Pointing Roll	330.021758	329.9022548189764			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9804656746847			
[mm] SIM translation stage offset	0	0.005023216916882234			
[s] Observation start time (MET)	478091092.184000	478089589.17012			
Observation start date	2013-02-24T11:03:45	2013-02-24T10:39:49			
[s] Observation end time (MET)	478096092.184000	478097244.38303			
Observation end date	2013-02-24T12:27:05	2013-02-24T12:47:24			

2.3 Aspect



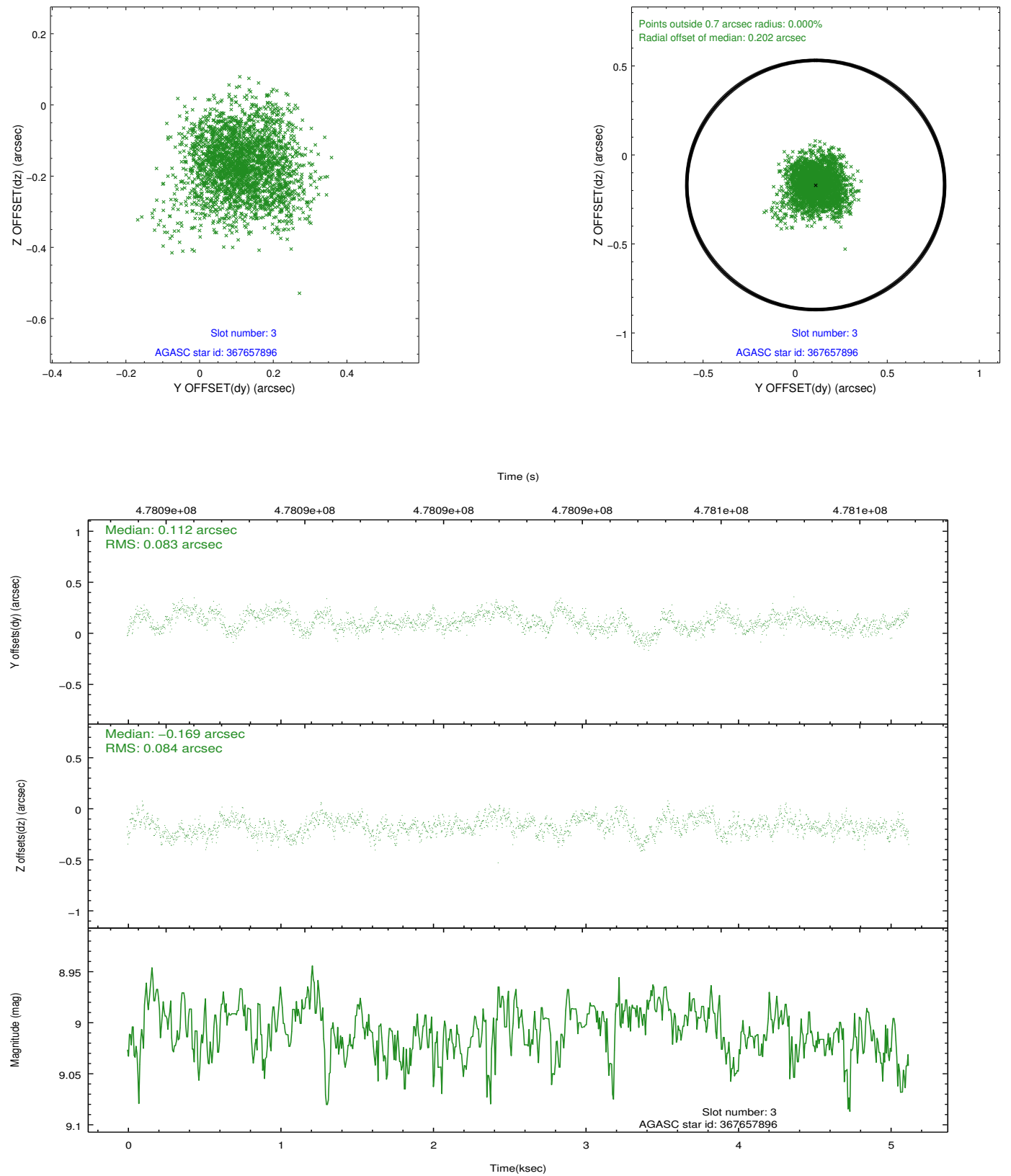


Slot Statistics

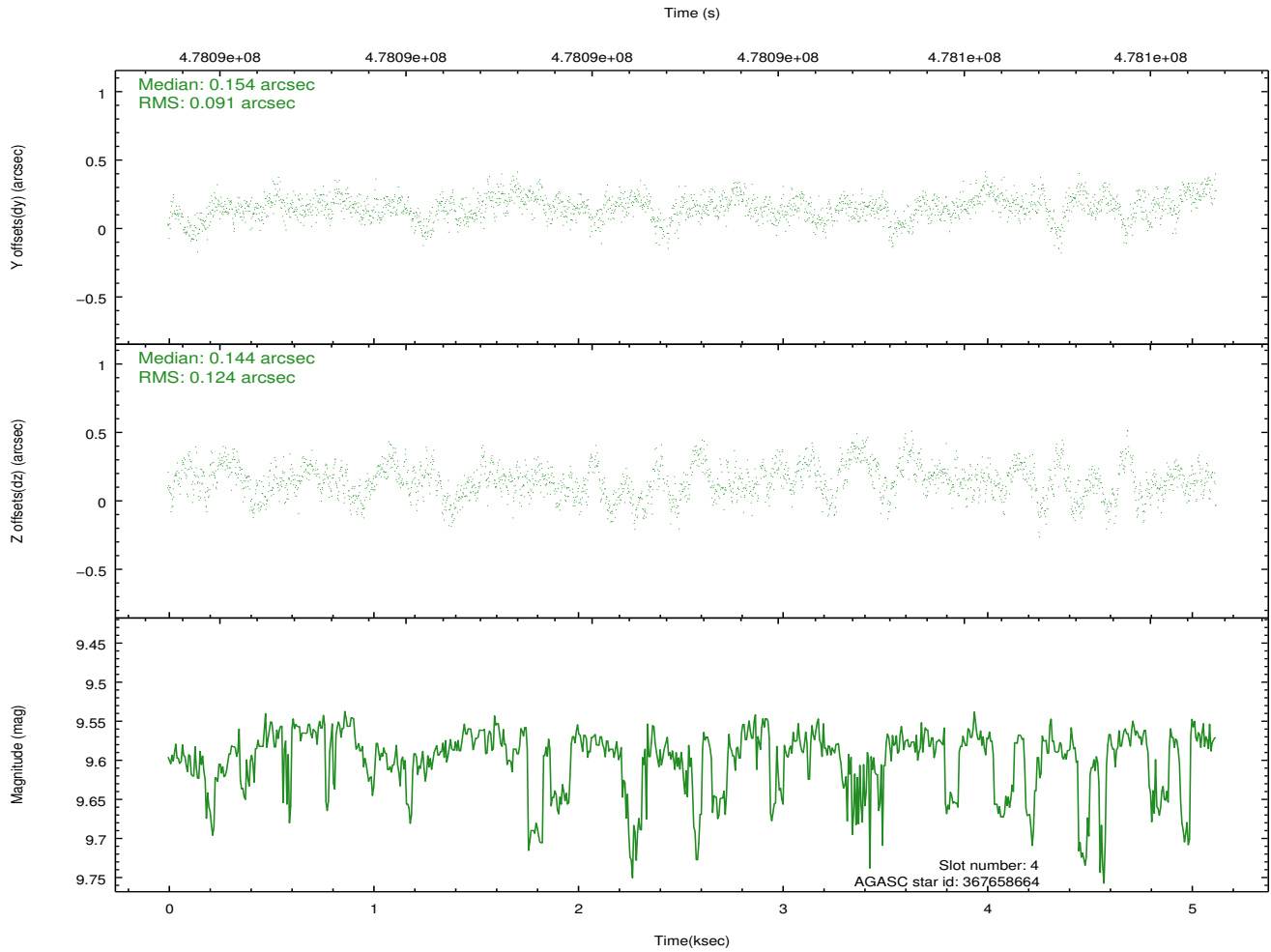
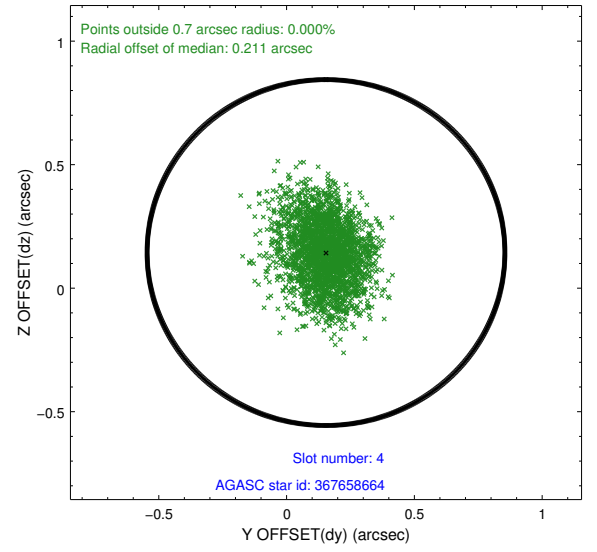
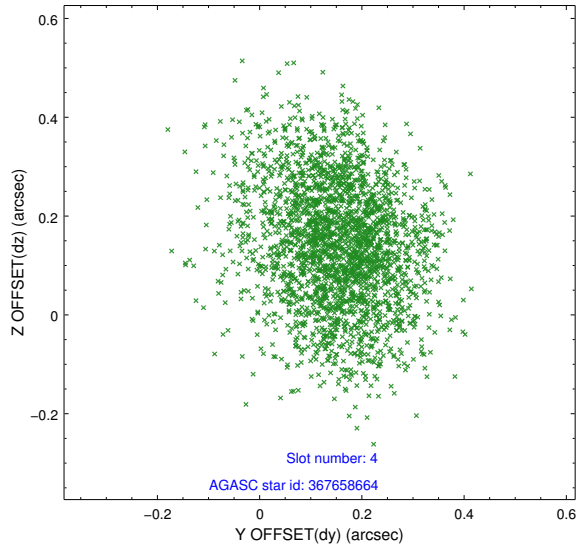
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	1250	-0.191	-0.126	0.006	0.011	0.000000	0.000000	-782.78	-1309.93
1	FID		HRC-I-2	7.06	1250	0.182	-0.059	0.012	0.018	0.000000	0.000000	829.59	-1312.69
2	FID		HRC-I-4	7.04	1250	0.125	0.091	0.008	0.013	0.000000	0.000000	1261.29	991.14
3	GUIDE	used	367657896	9.01	2494	0.112	-0.169	0.127	0.204	11.197765	41.313576	1564.46	70.89
4	GUIDE	used	367658664	9.59	2465	0.154	0.144	0.164	0.268	10.374070	41.369746	-463.21	-868.53
5	GUIDE	used	367663272	9.29	2499	0.086	0.049	0.122	0.211	10.656279	41.699429	-396.38	537.92
6	GUIDE	used	367665384	8.80	2499	-0.210	0.088	0.099	0.163	10.414363	42.275730	-1990.99	2015.86
7	GUIDE	used	367674552	8.84	2486	-0.139	-0.098	0.126	0.192	11.016238	41.570845	673.76	624.87

2.4 Star Slots

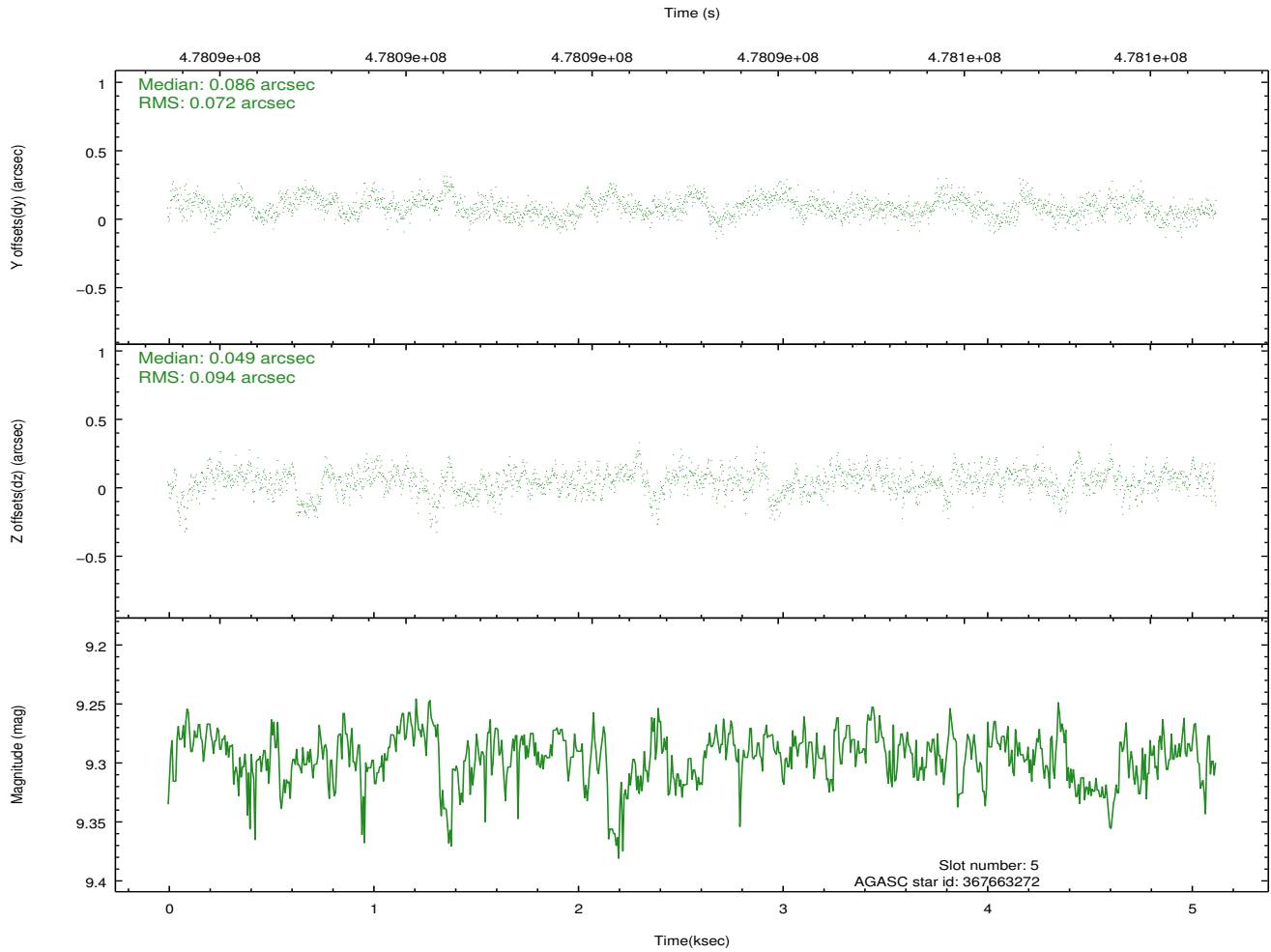
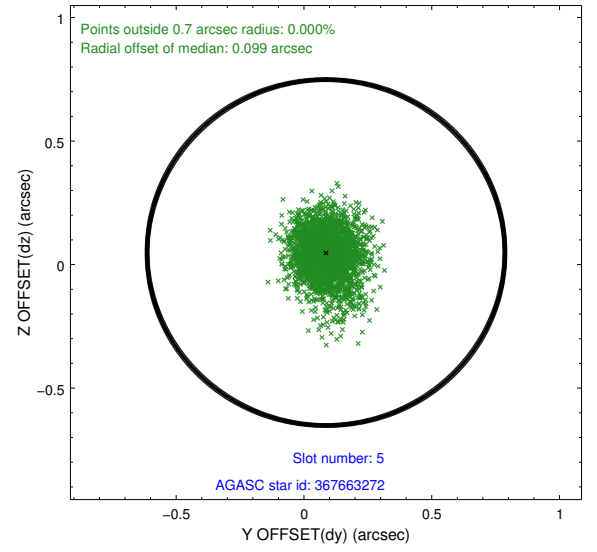
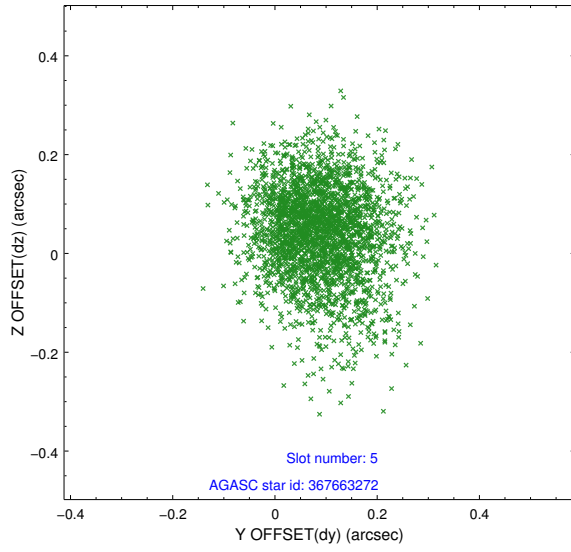
2.4.1 Slot 3



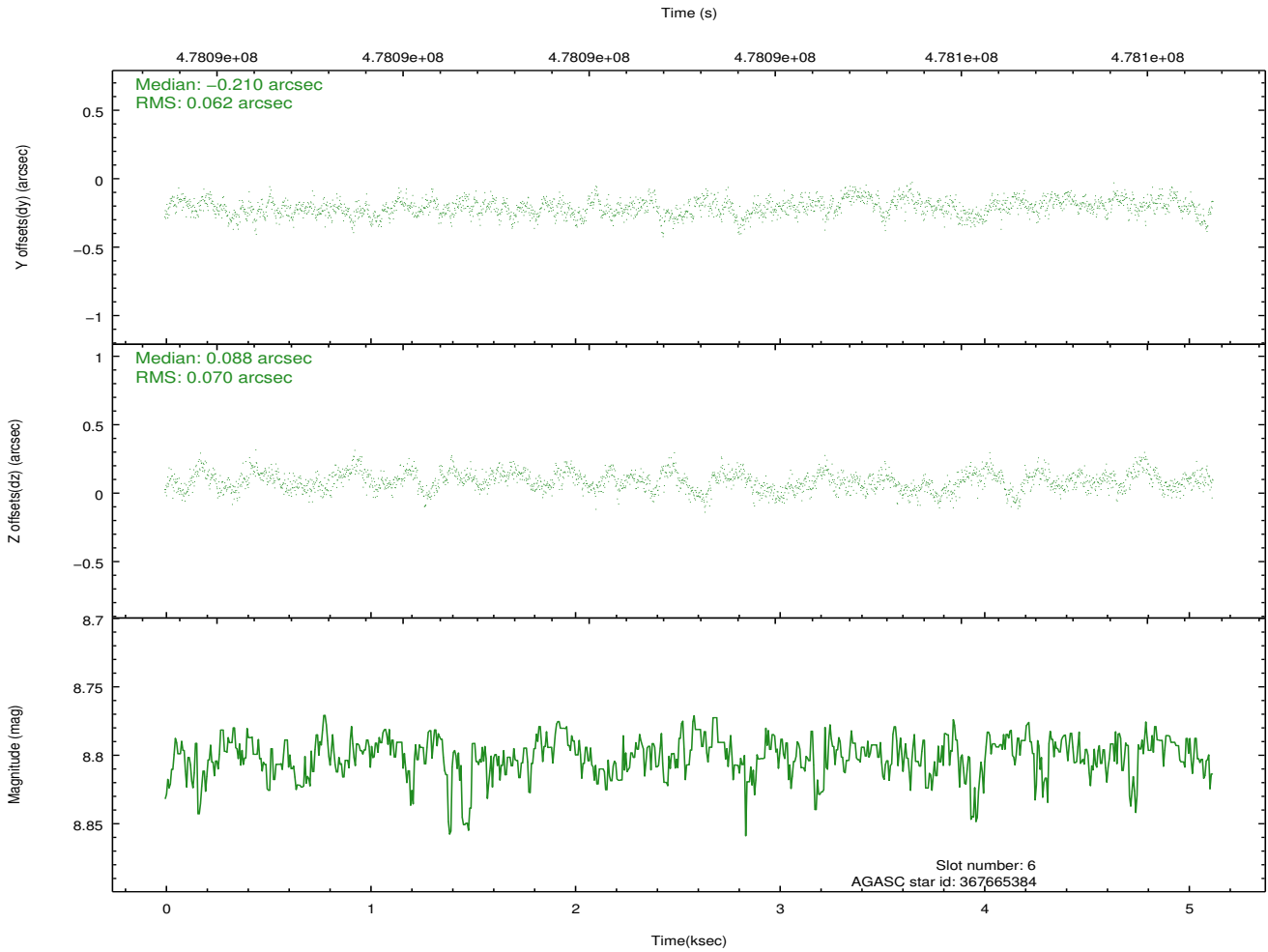
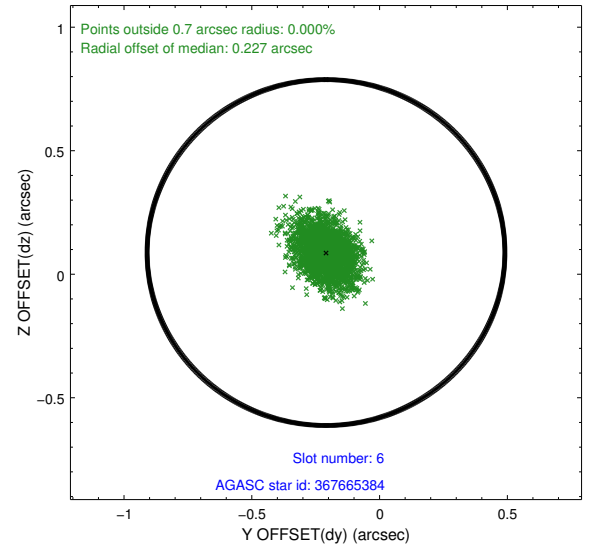
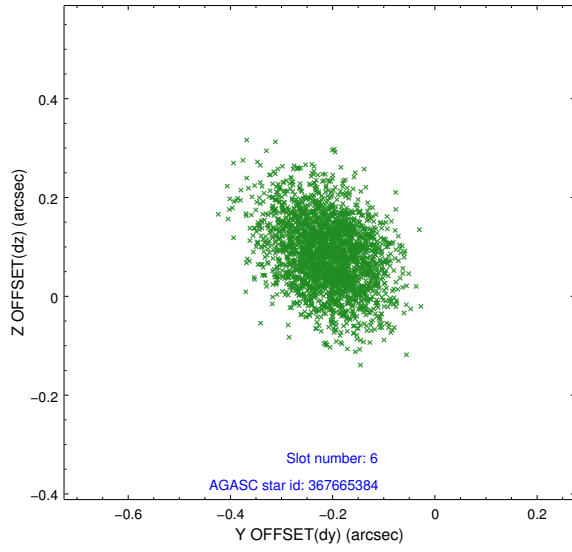
2.4.2 Slot 4



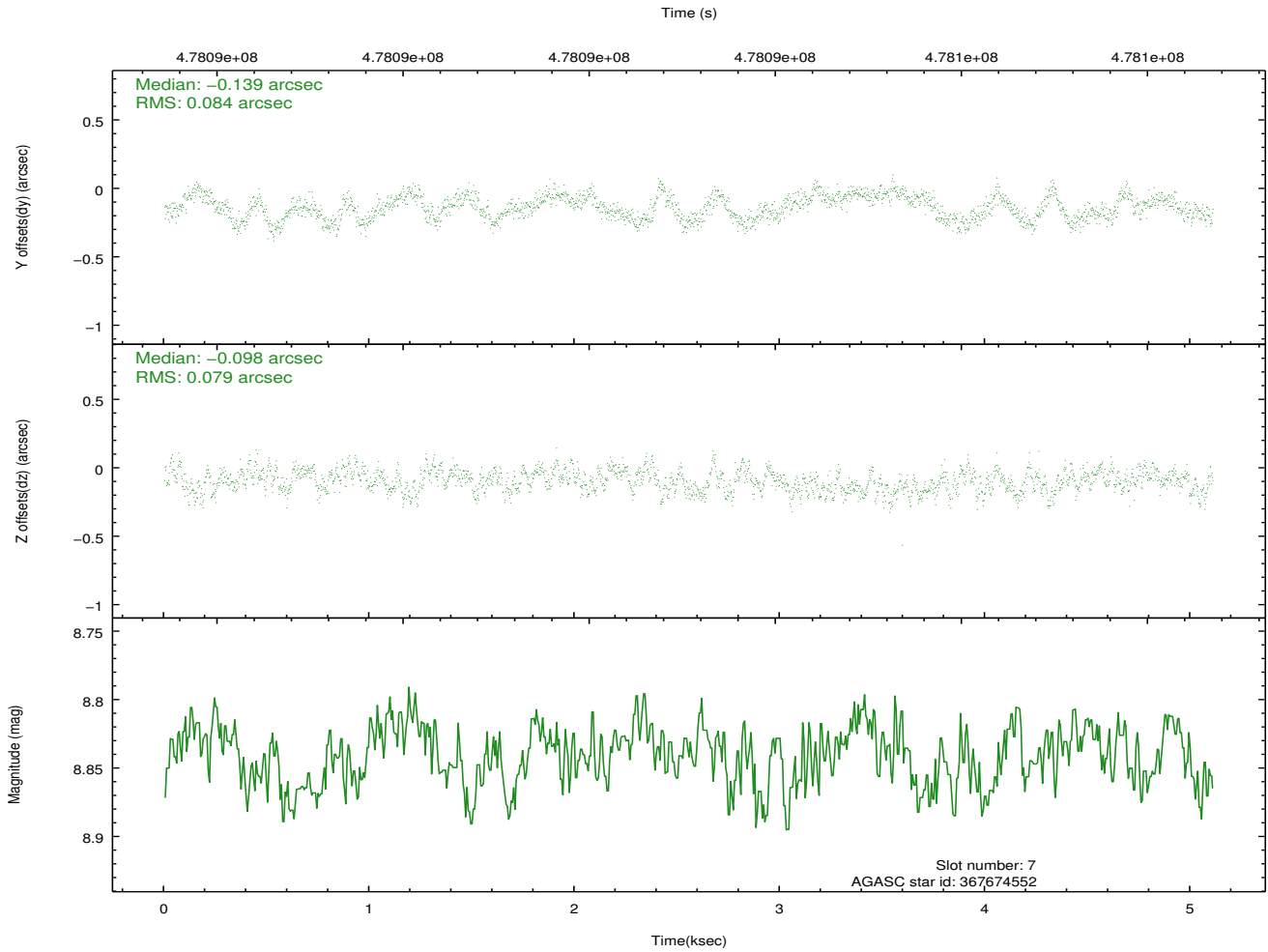
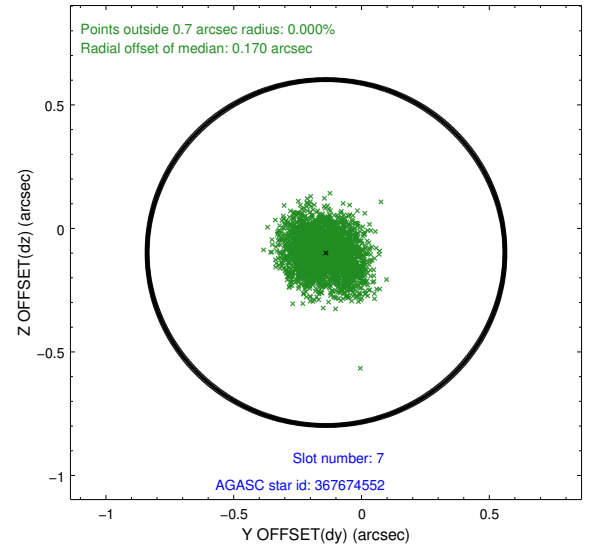
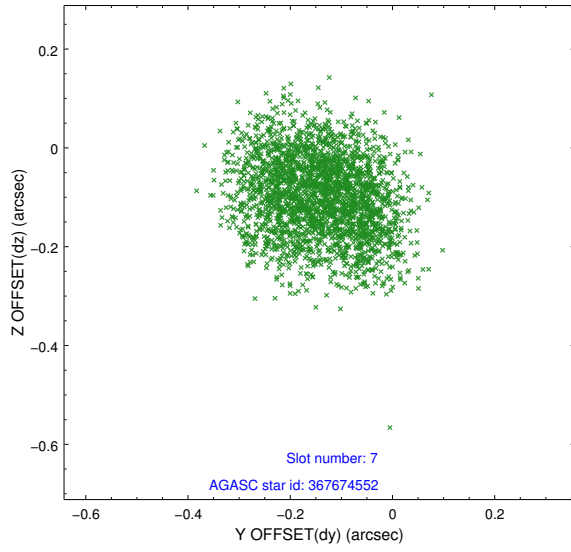
2.4.3 Slot 5



2.4.4 Slot 6

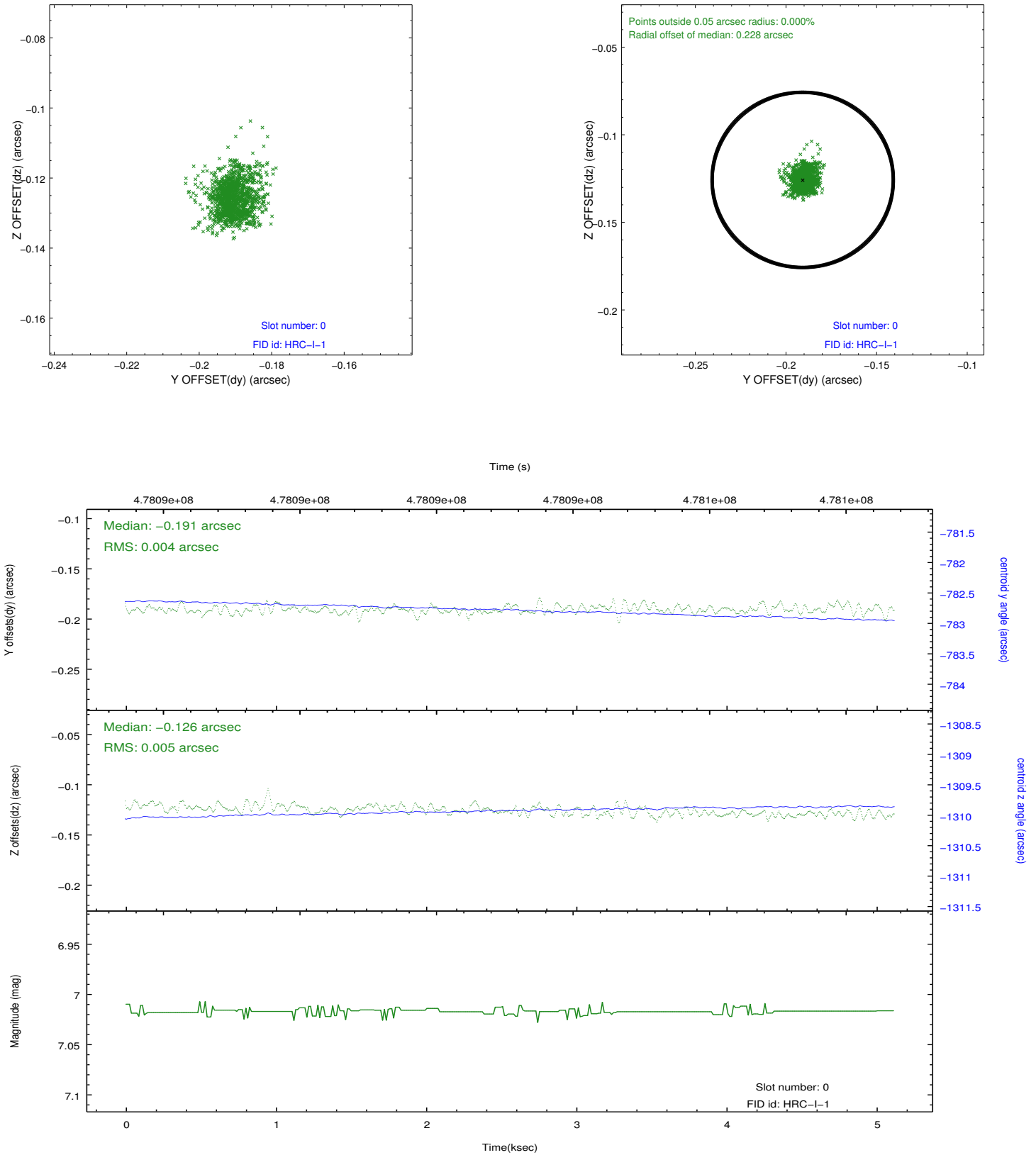


2.4.5 Slot 7

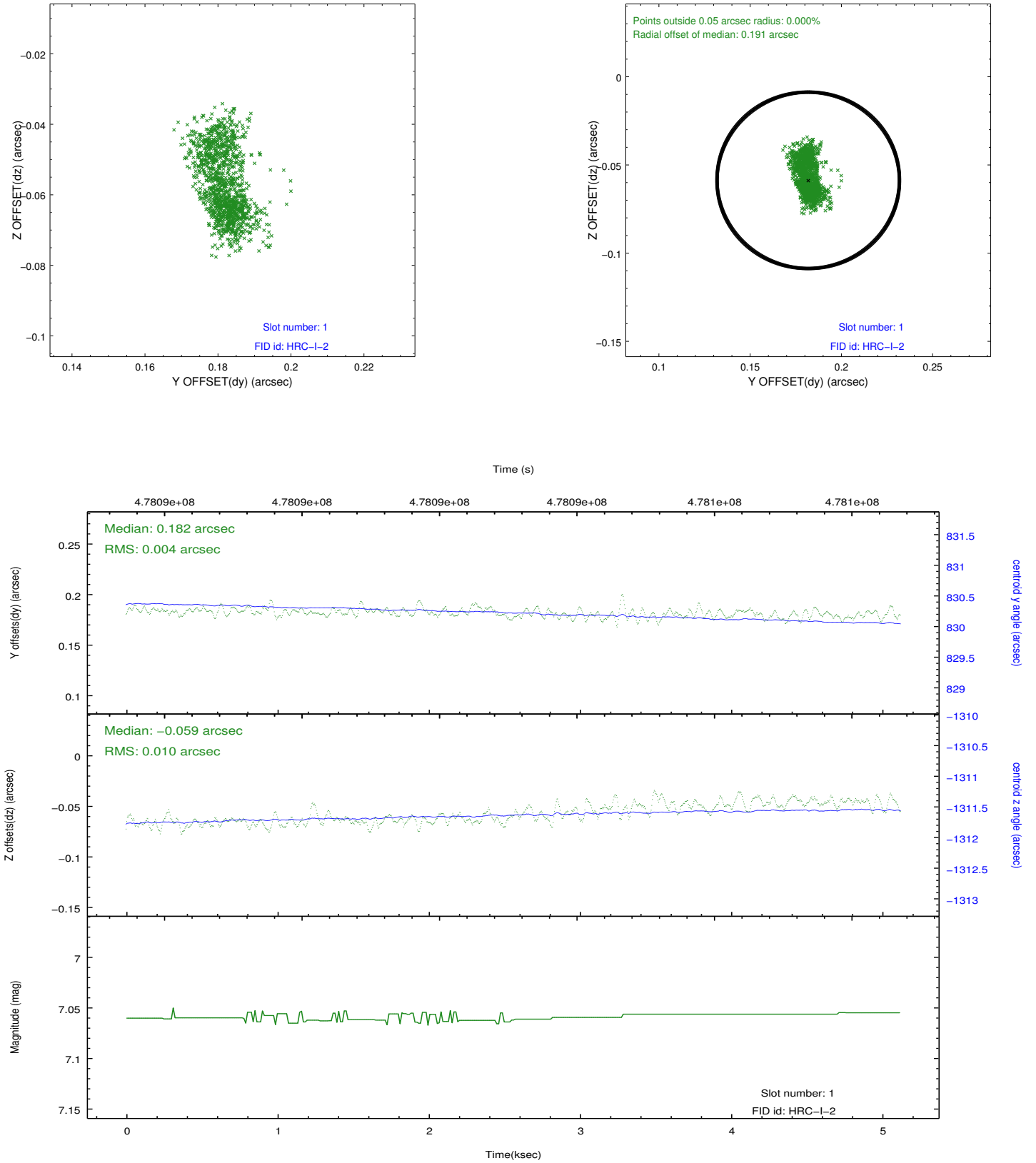


2.5 FID Slots

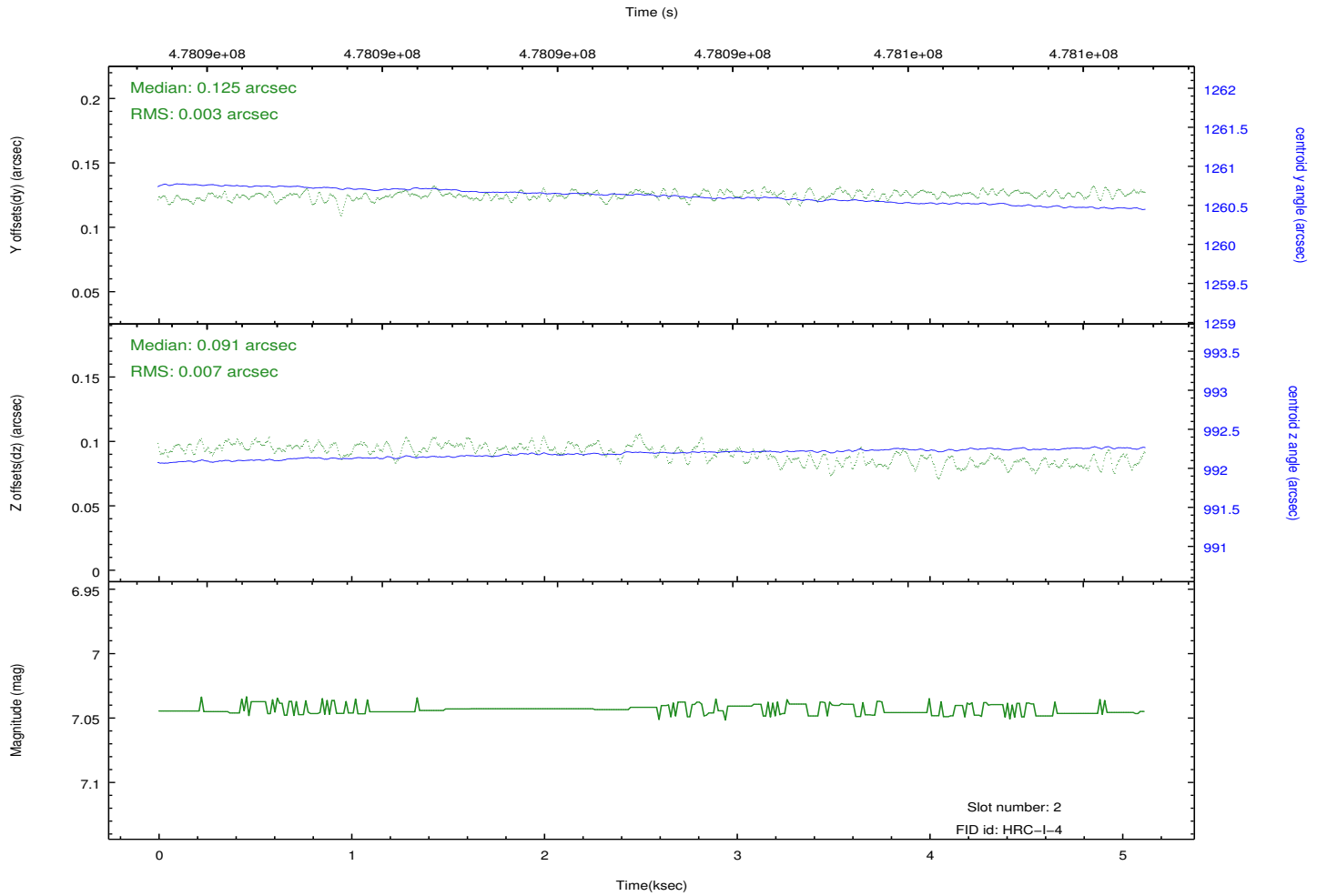
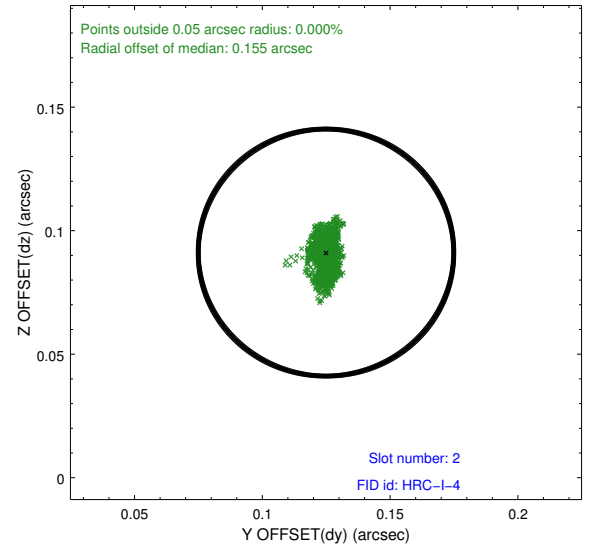
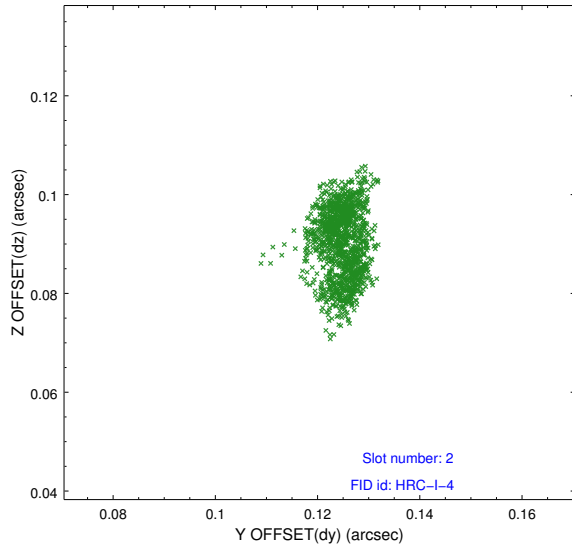
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1221815264225

A.2 Comments

Joint proposal with XMM.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.