

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15672 - L2 Version 2
Chandra X-Ray Center

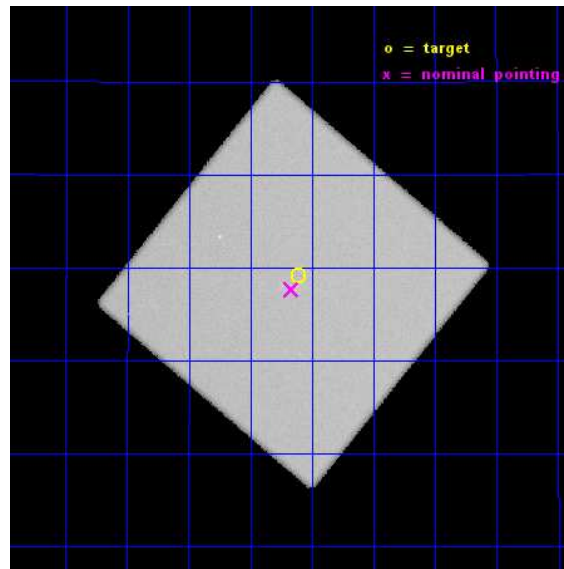
L2 Processing Date : Dec 11 2014

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1 Front

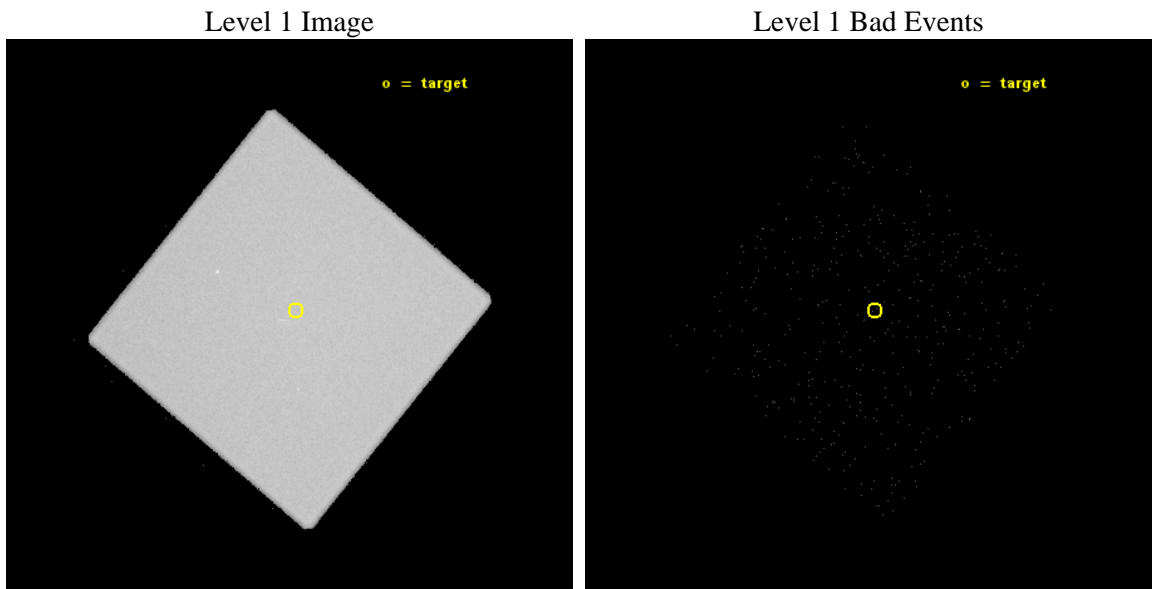
seq_num	100101	Sequence number
obs_id	15672	Observation id
title	Plasma in the Jovian magnetosphere: An X-ray and EUV study of the aurora and the Io plasma torus	Proposal title
observer	Dr. Ralph Kraft	Principal investigator
object	Jupiter	Source name
ra_targ	103.5284	Observer's specified target RA [deg]
dec_targ	23.15239	Observer's specified target Dec [deg]
ra_nom	103.54142691513	Nominal RA [deg]
dec_nom	23.127926060447	Nominal Dec [deg]
roll_nom	264.6606981243	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39793.833446801	[s]
liveltime	39507.209760361	Ontime multiplied by DTCOR
l2events	2206084	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	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	39793.833446801	[s]
caldbver	4.6.4	 	l1events	2985622	Number of level 1 events
date	2014-12-11T06:35:23	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

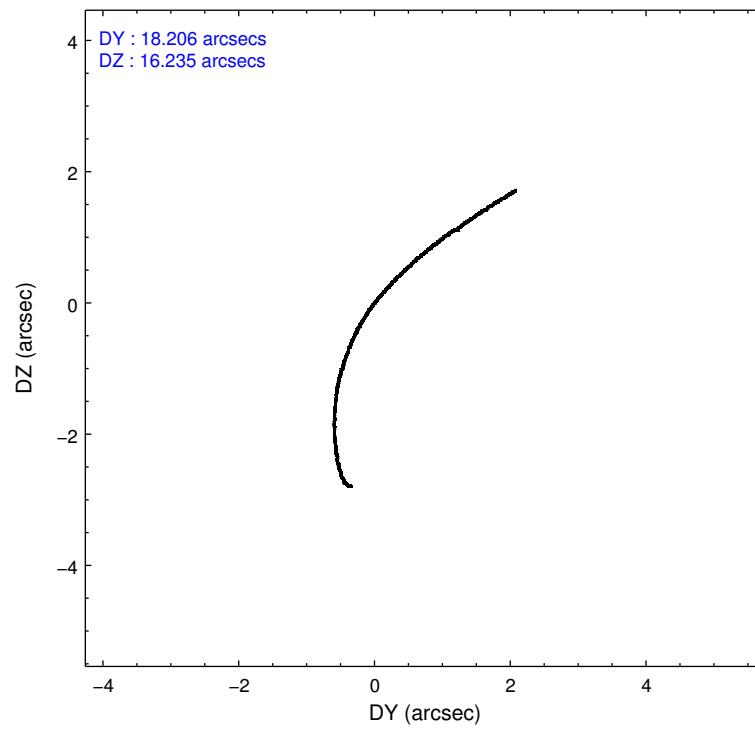
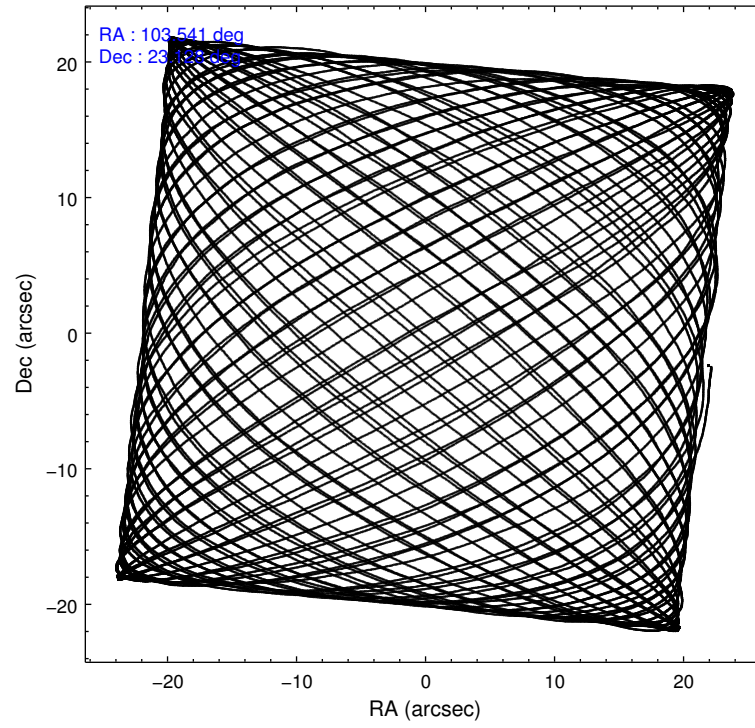
Level 1 Events

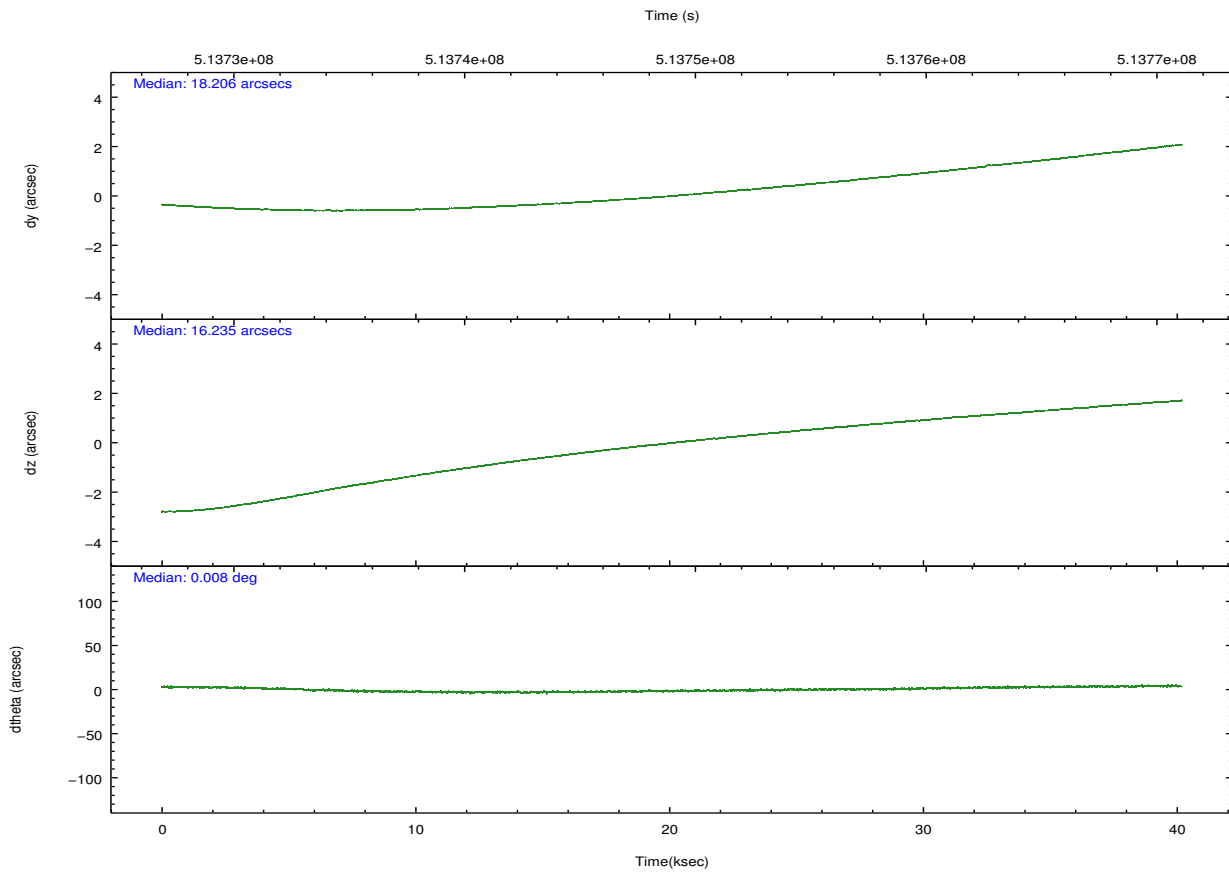
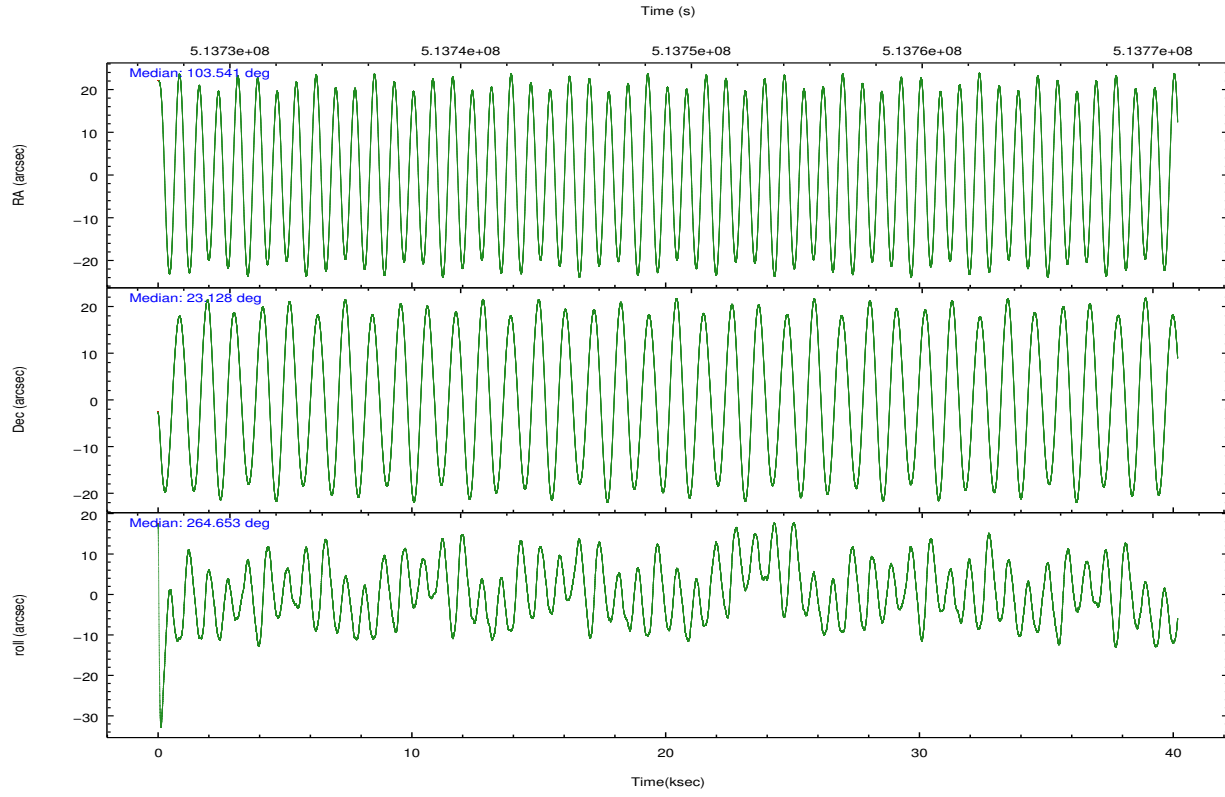
	segment 0
level 1 events	2985622
rejected events	6779
rejected %	0%

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	103.528441	103.5414269151312			
[deg] Pointing Dec	23.152392	23.12792606044682			
[deg] Pointing Roll	264.761278	264.6606981243014			
[s] Window start time (MET)	513216067.184000	513216067.184000			
[s] Window stop time (MET)	514339207.184000	514339207.184000			
[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)	513729072.184000	513727837.1288			
Observation start date	2014-04-12T22:30:05	2014-04-12T22:10:37			
[s] Observation end time (MET)	513769072.184000	513770062.00614			
Observation end date	2014-04-13T09:36:45	2014-04-13T09:54:22			

2.3 Aspect





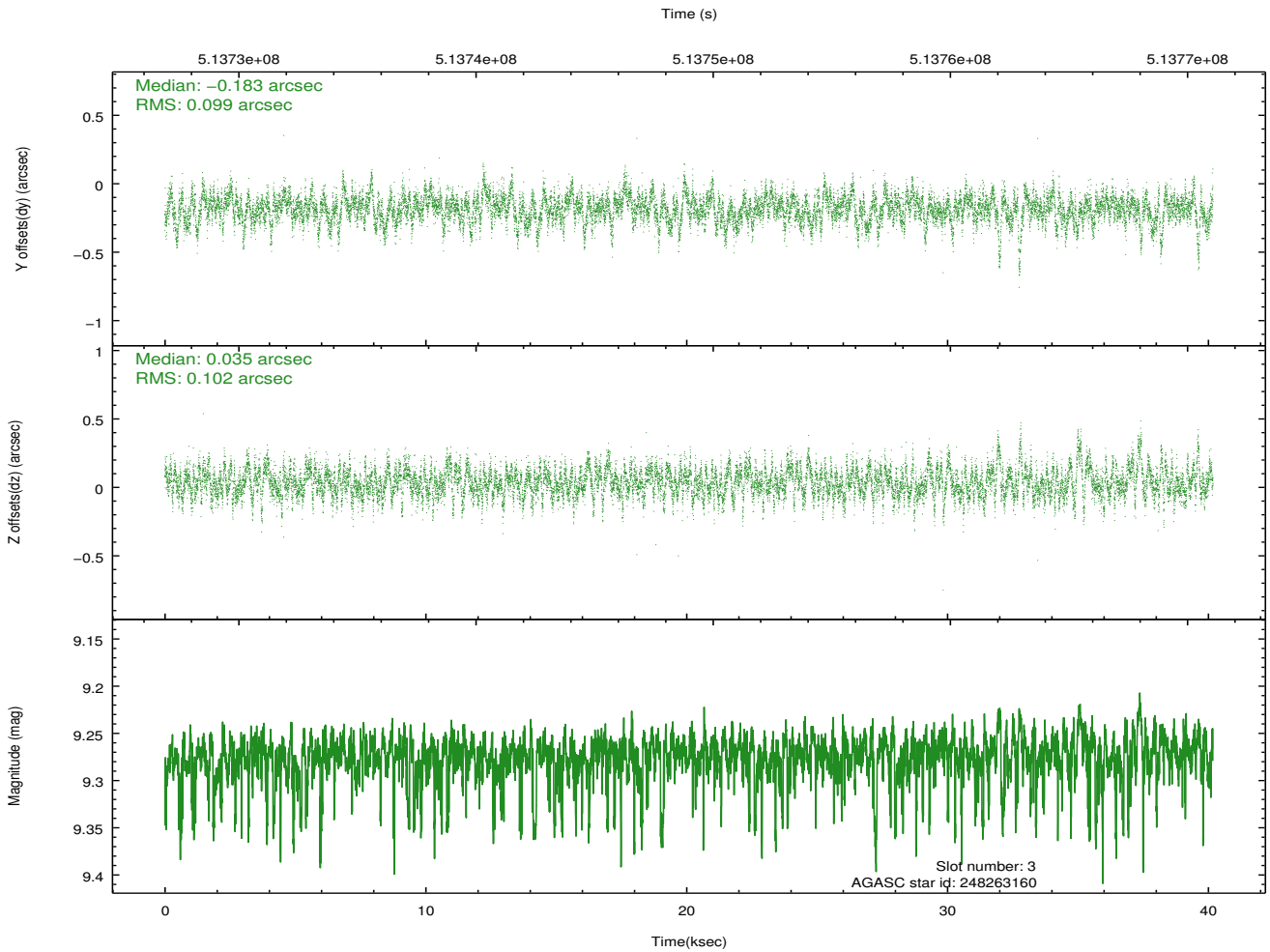
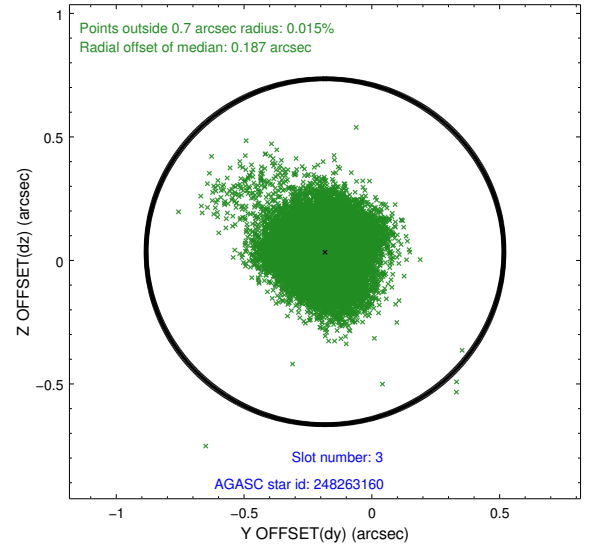
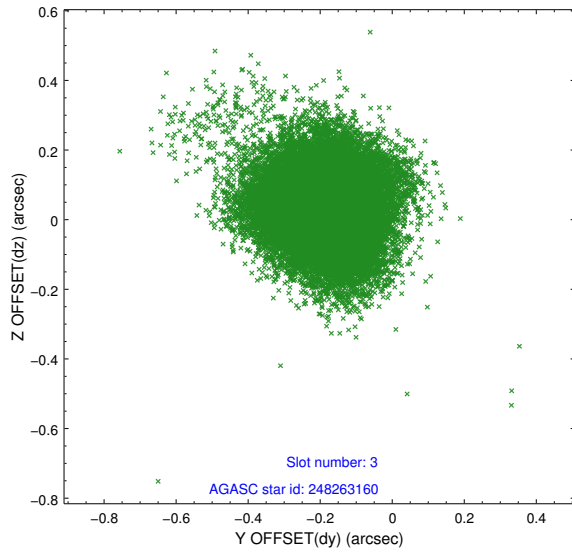
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.01	9799	0.109	-0.087	0.030	0.050	0.000000	0.000000	838.37	-1305.75
1	FID		HRC-I-3	7.06	9801	-0.182	0.046	0.022	0.036	0.000000	0.000000	-1202.97	1000.36
2	FID		HRC-I-4	6.98	9801	0.194	-0.045	0.021	0.027	0.000000	0.000000	1268.48	998.13
3	GUIDE	used	248263160	9.27	19593	-0.183	0.035	0.148	0.242	103.915522	23.699104	-2078.09	1090.87
4	GUIDE	used	248267112	9.14	19588	-0.071	0.192	0.164	0.247	103.373359	23.602441	-1566.74	-657.02
5	GUIDE	used	248253096	9.89	19504	0.019	-0.012	0.201	0.334	103.097317	23.667563	-1718.79	-1584.99
6	GUIDE	used	248255536	10.34	19515	0.057	-0.042	0.310	0.498	102.961986	22.921783	995.11	-1794.46
7	GUIDE	used	248258016	9.29	19584	0.202	-0.188	0.171	0.280	103.165116	23.010274	618.67	-1152.11

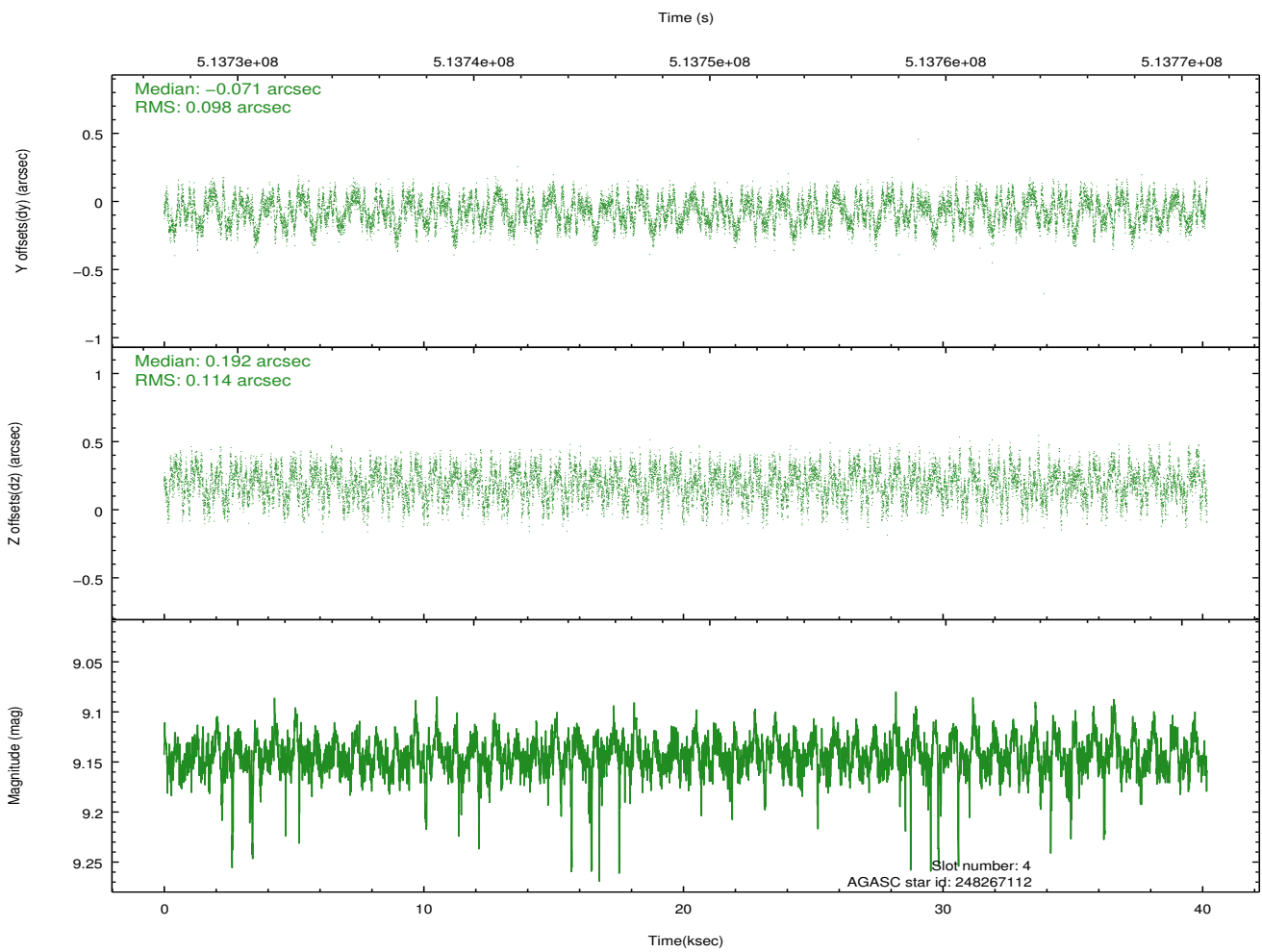
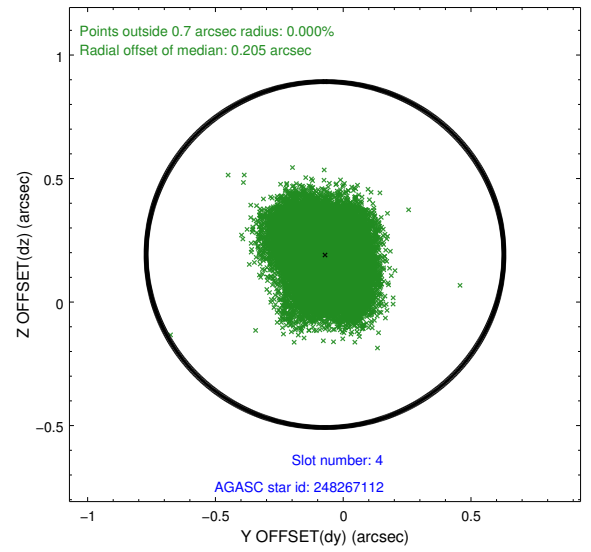
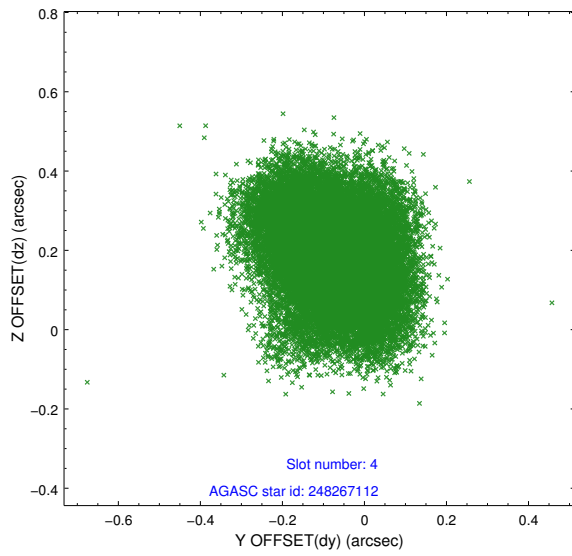
∞

2.4 Star Slots

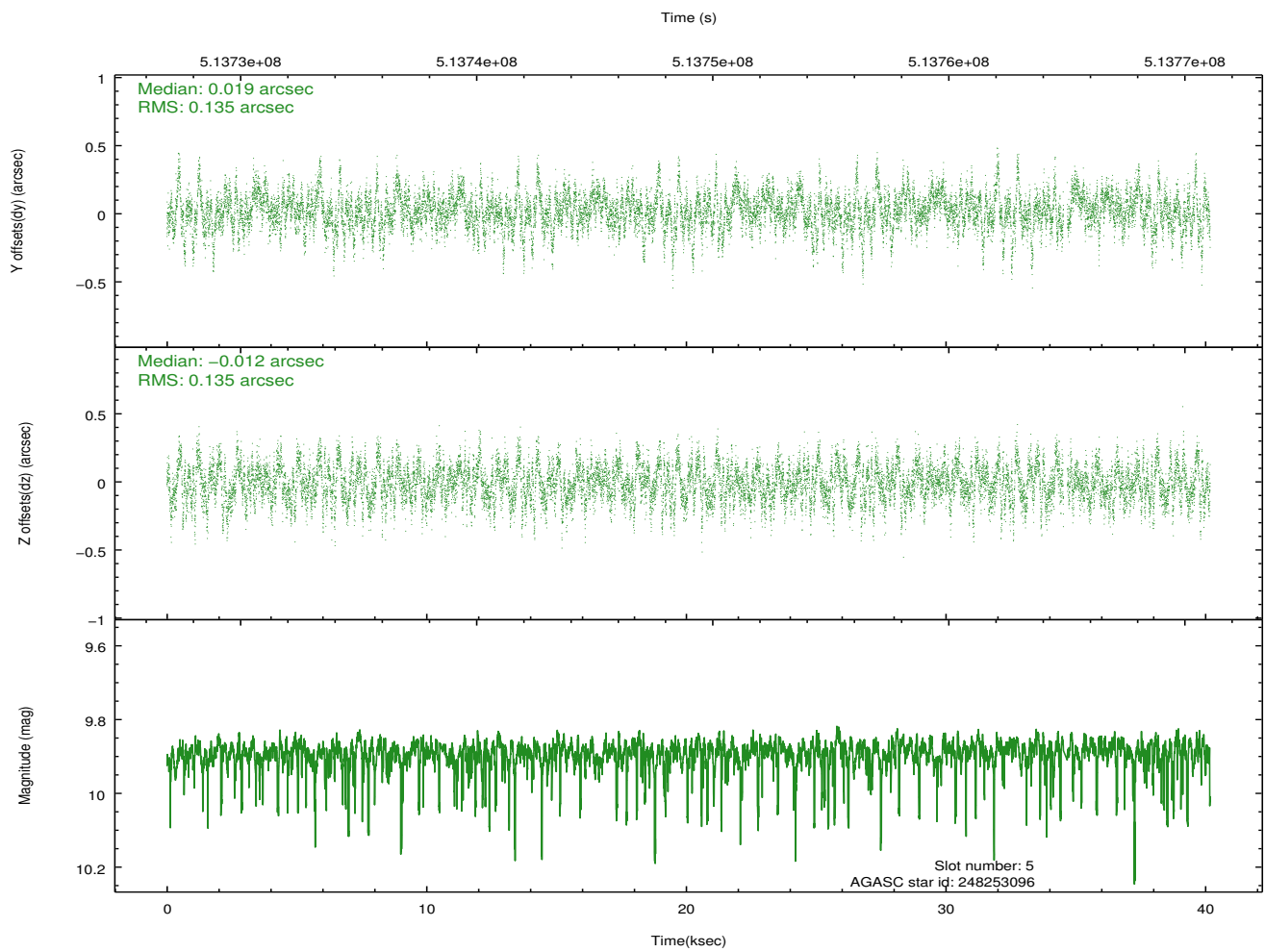
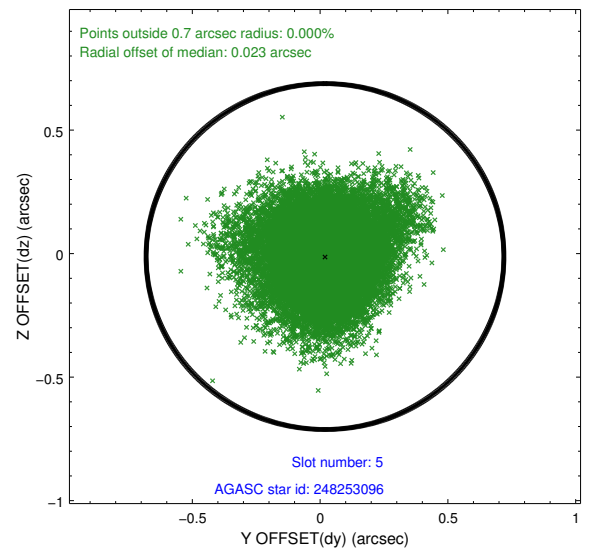
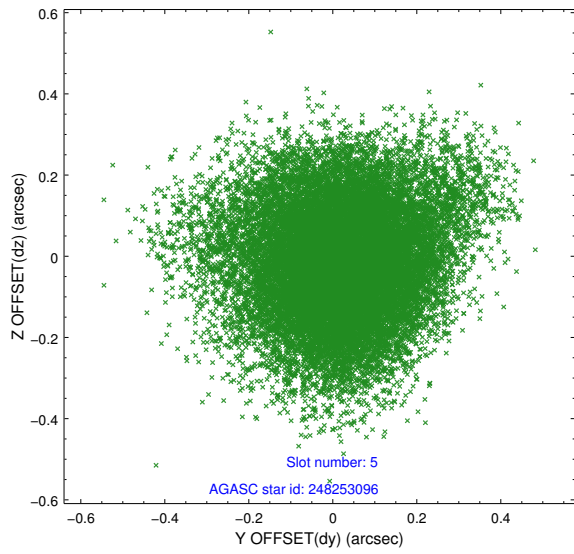
2.4.1 Slot 3



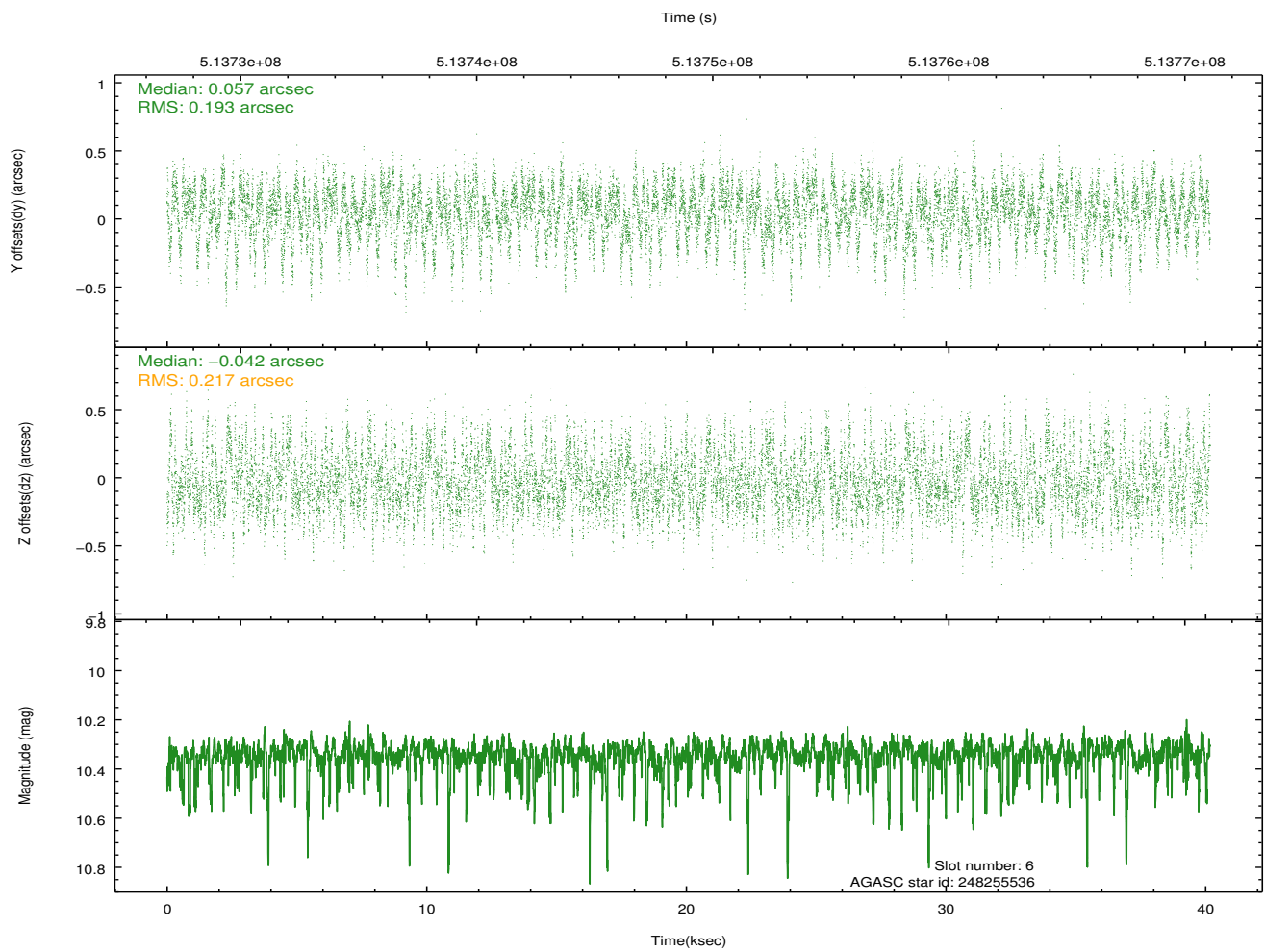
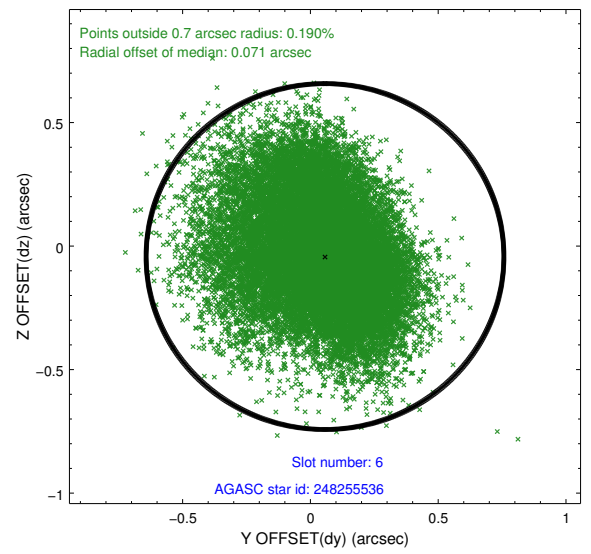
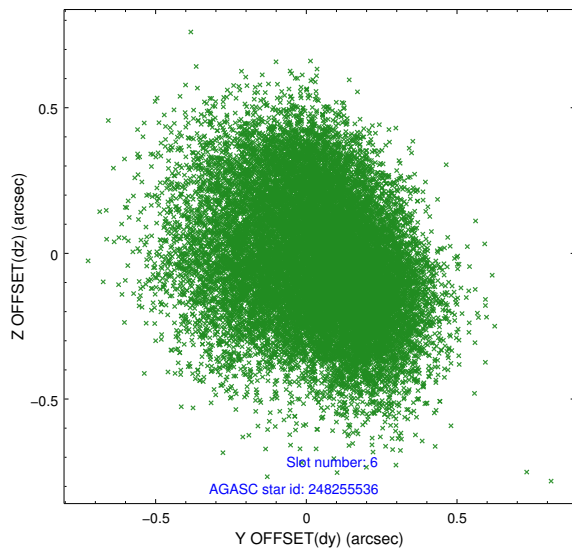
2.4.2 Slot 4



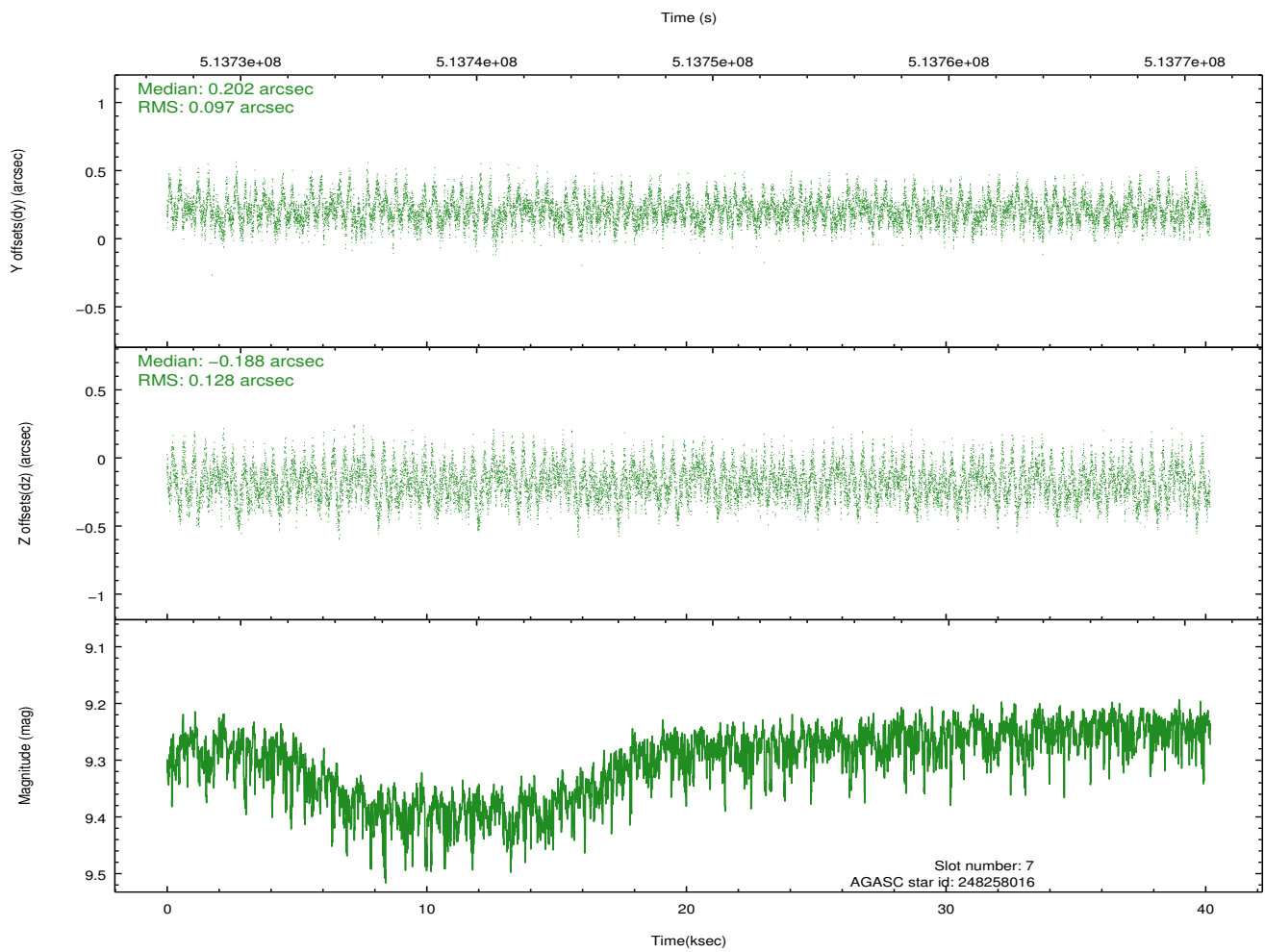
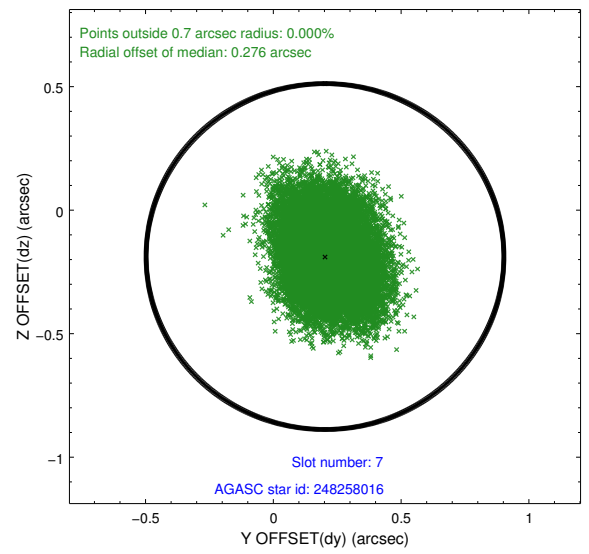
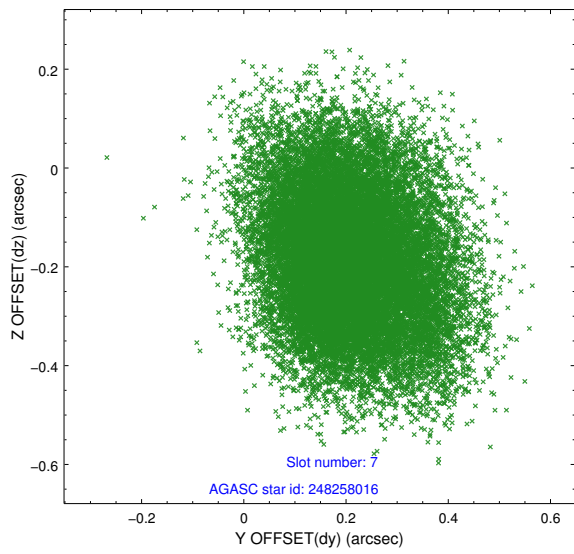
2.4.3 Slot 5



2.4.4 Slot 6

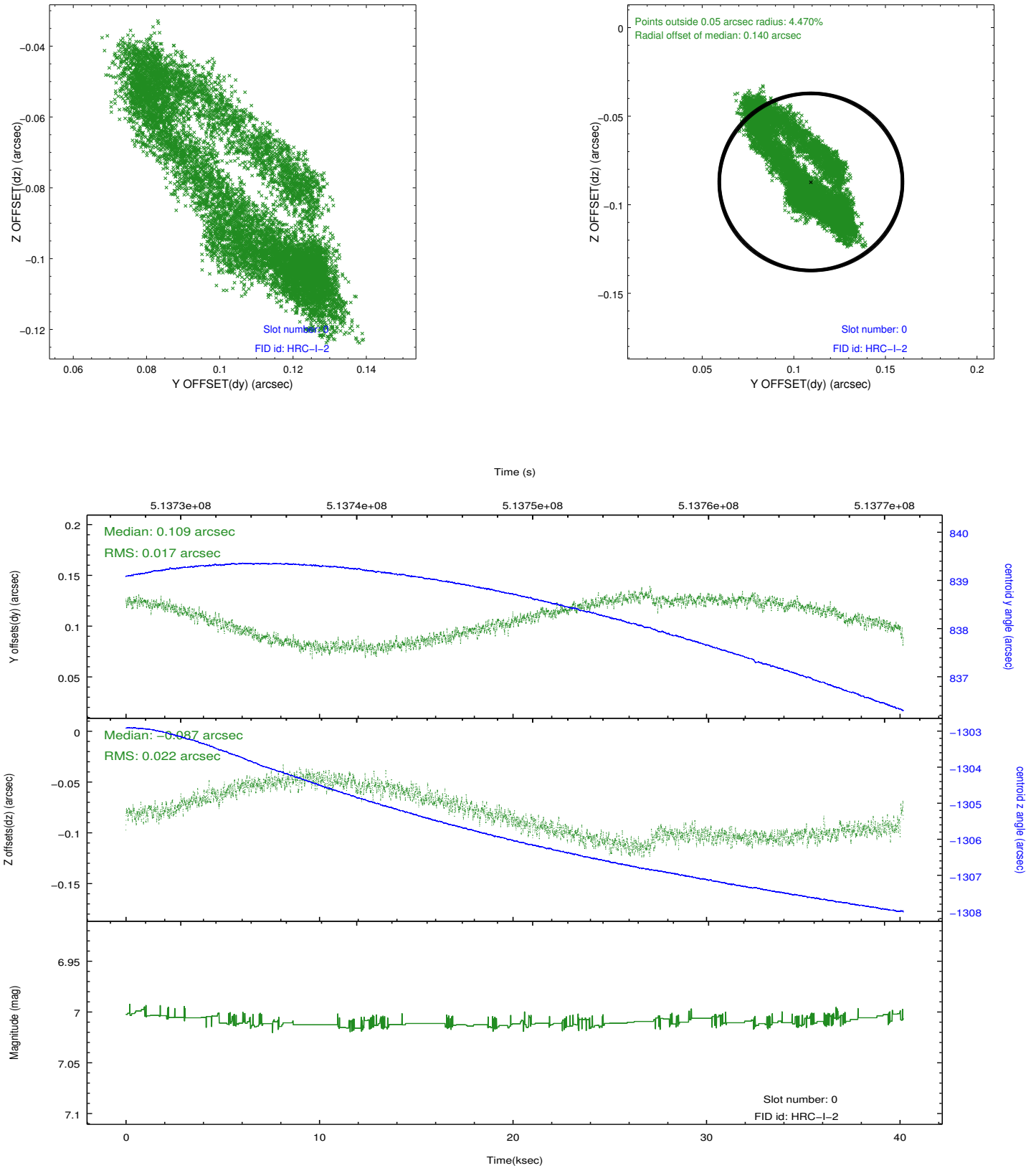


2.4.5 Slot 7

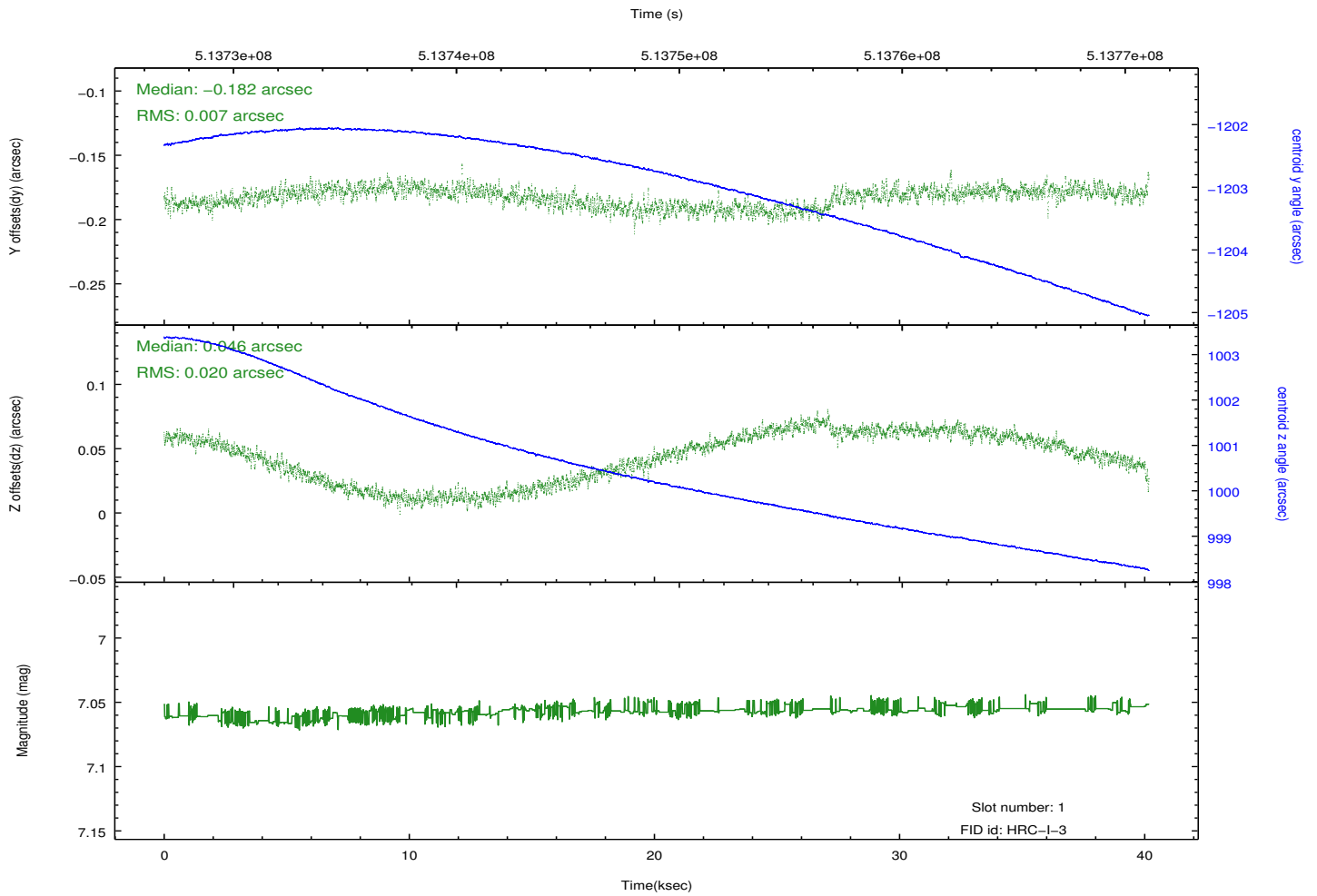
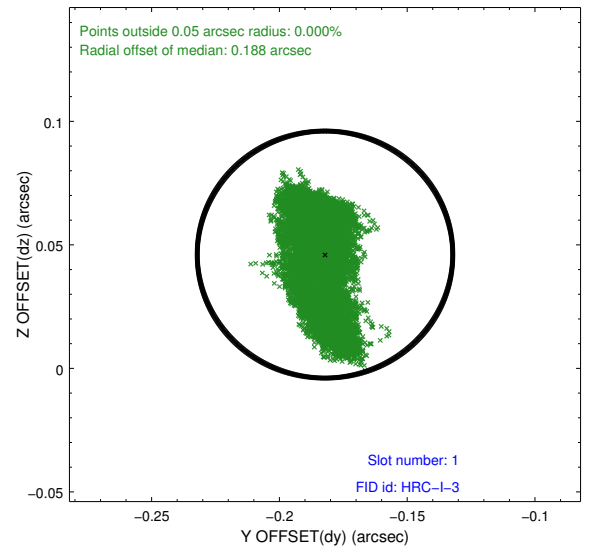
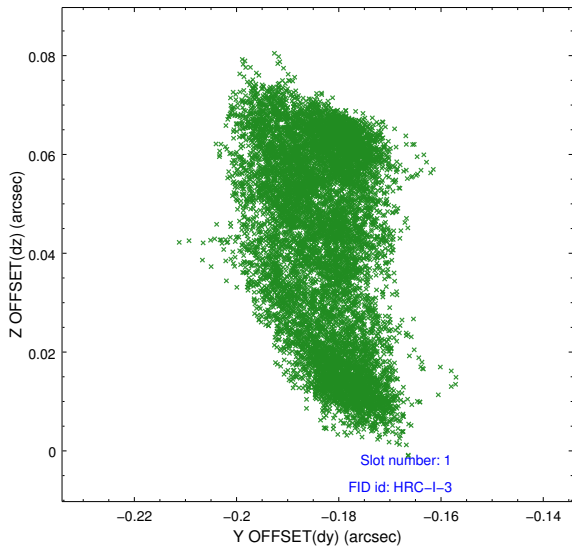


2.5 FID Slots

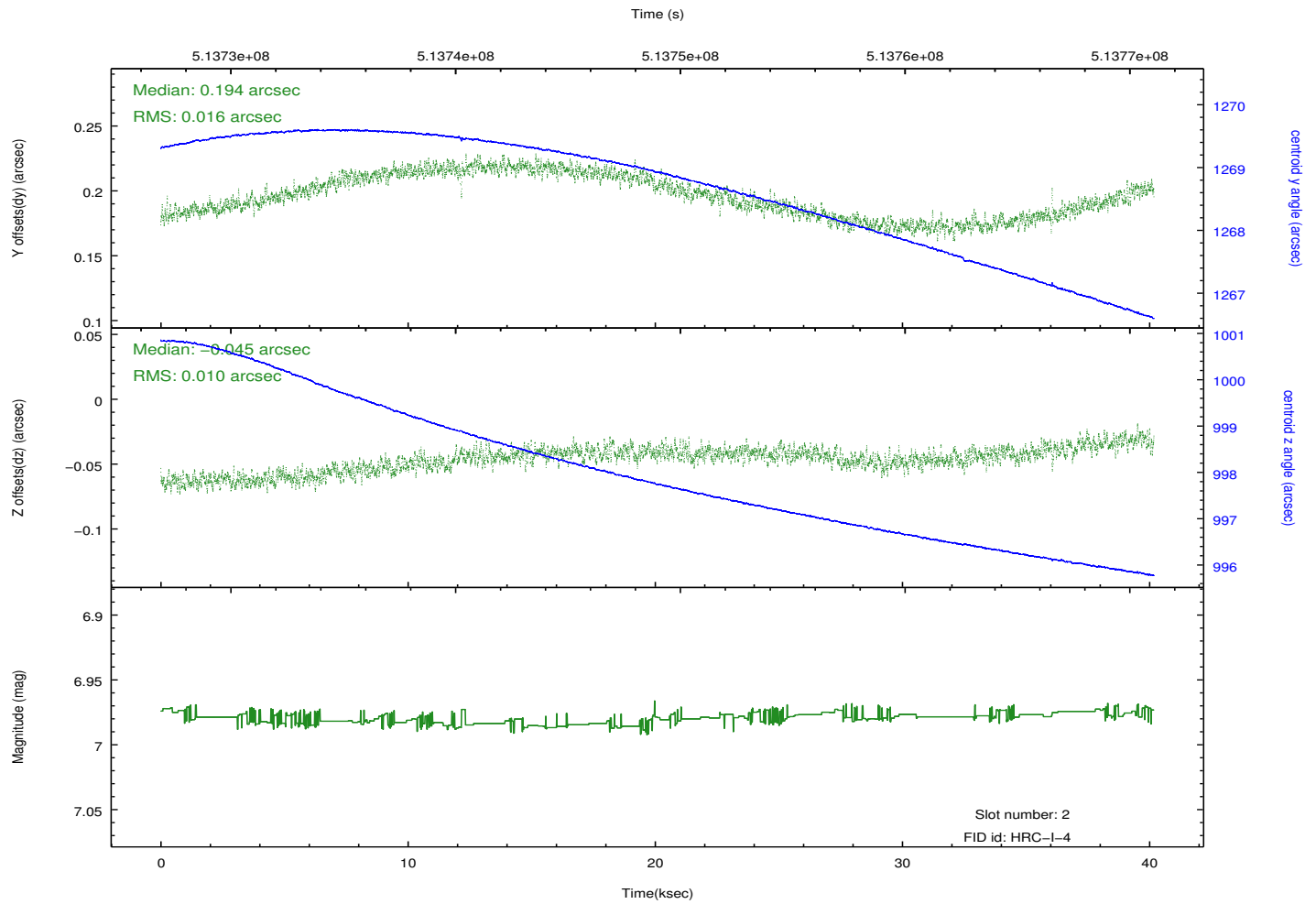
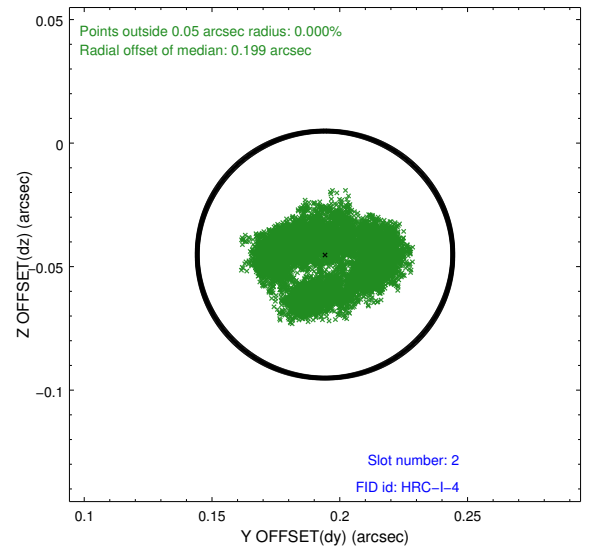
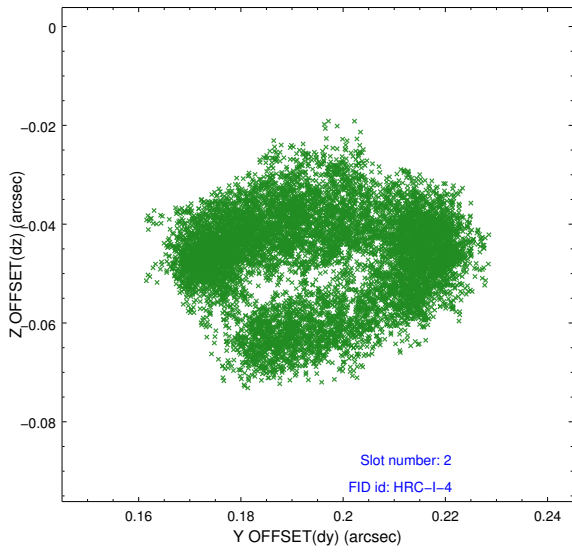
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.793833446801

A.2 Comments

Joint proposal with XMM.

Window preference 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.

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.