

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15671 - L2 Version 2
Chandra X-Ray Center

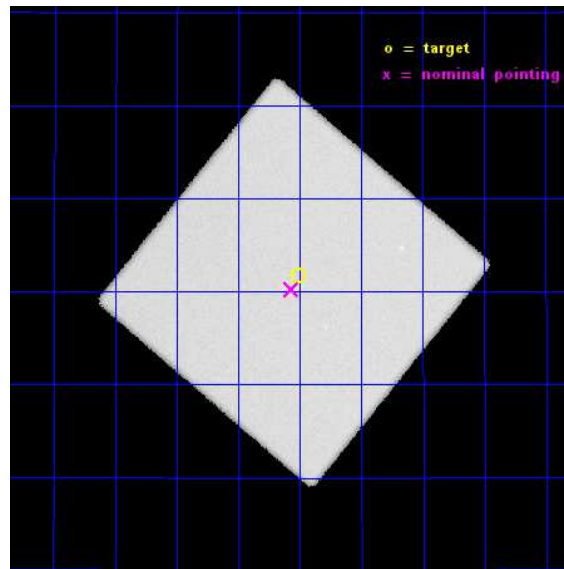
L2 Processing Date : Dec 11 2014

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1 Front

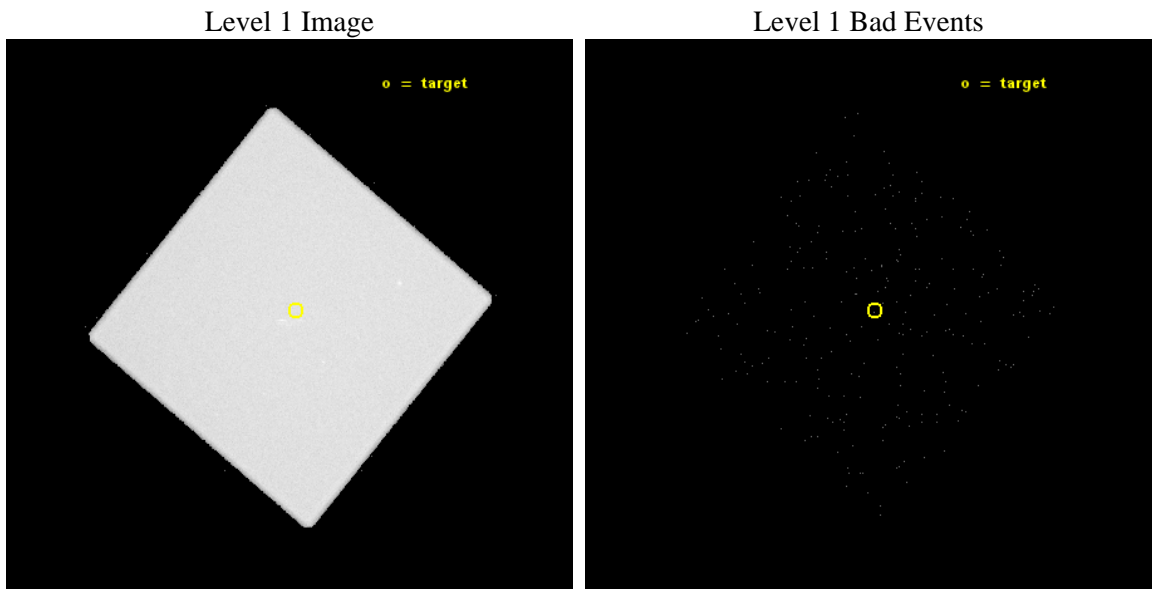
seq_num	100100	Sequence number
obs_id	15671	Observation id
title	Plasma in the Jovian magnetosphere: An X-ray and EUV study of the aurora and the Io plasma torus	Proposal title
observer	Dr. Ralph Kraft	Principal investigator
object	Jupiter	Source name
ra_targ	103.0041	Observer's specified target RA [deg]
dec_targ	23.19548	Observer's specified target Dec [deg]
ra_nom	103.01723625824	Nominal RA [deg]
dec_nom	23.171022976824	Nominal Dec [deg]
roll_nom	264.82442478806	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41031.7772578	[s]
liveltime	40732.978866509	Ontime multiplied by DTCOR
l2events	2330624	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	40853.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	41031.7772578	[s]
caldbver	4.6.4	 	l1events	3193127	Number of level 1 events
date	2014-12-11T06:36:52	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

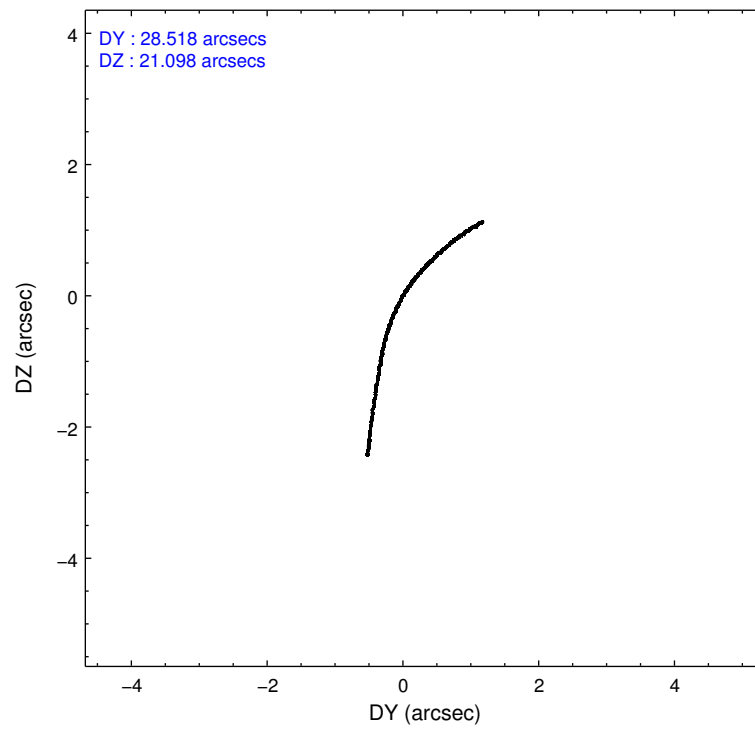
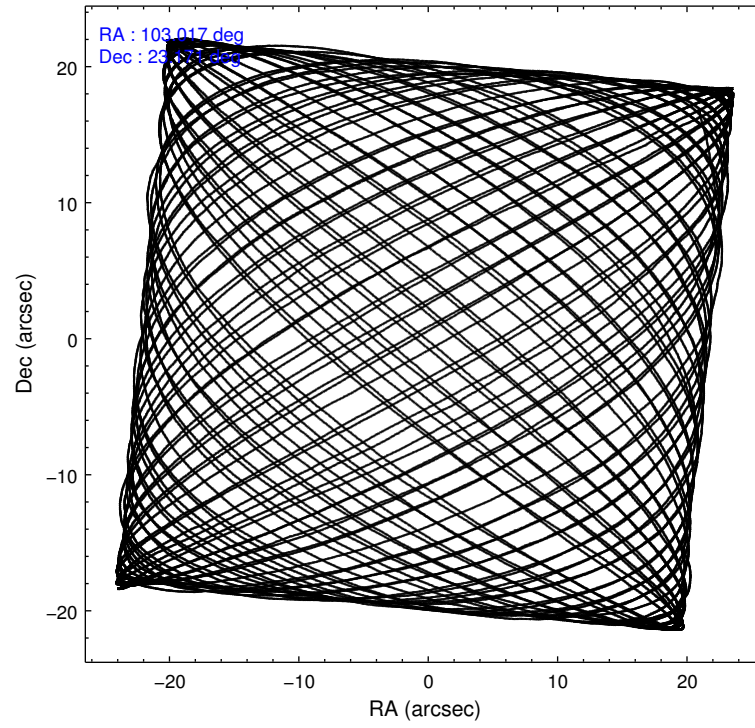
Level 1 Events

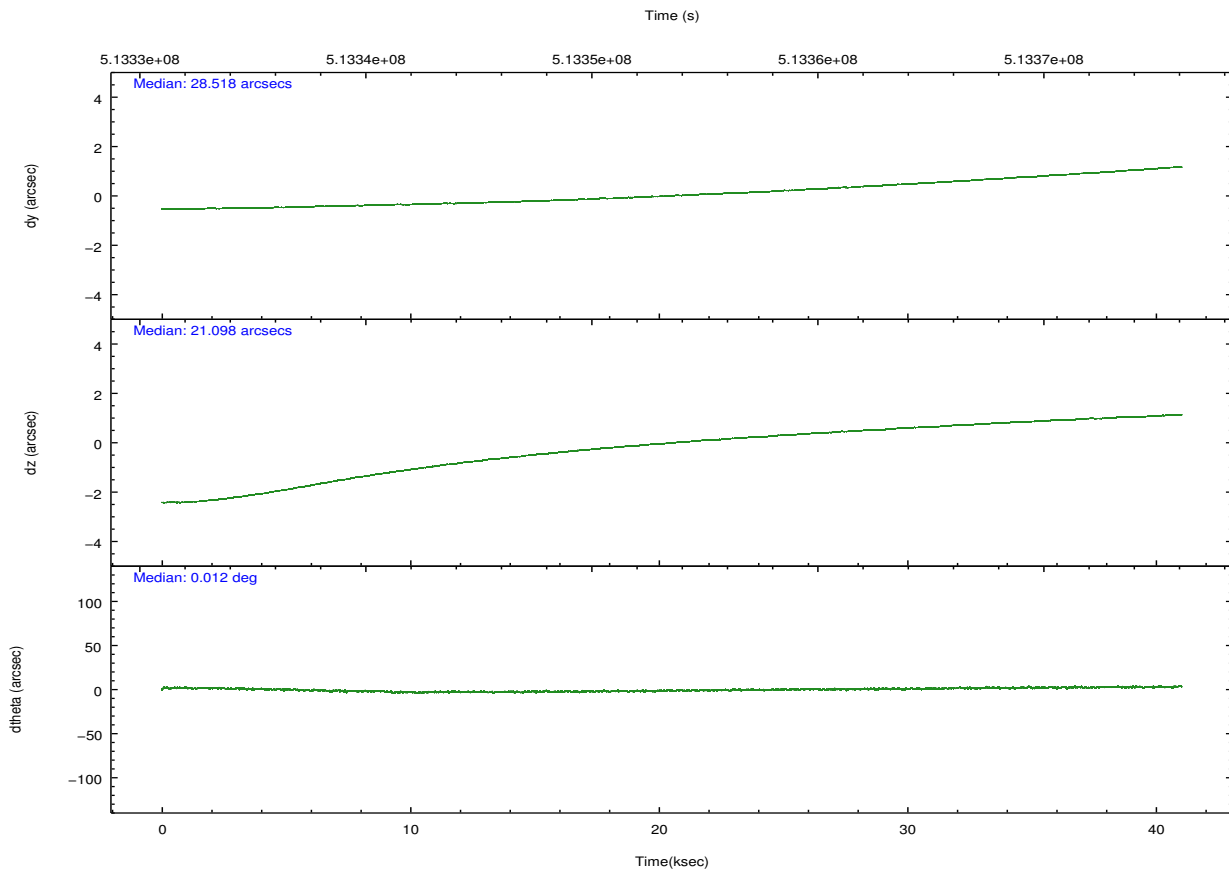
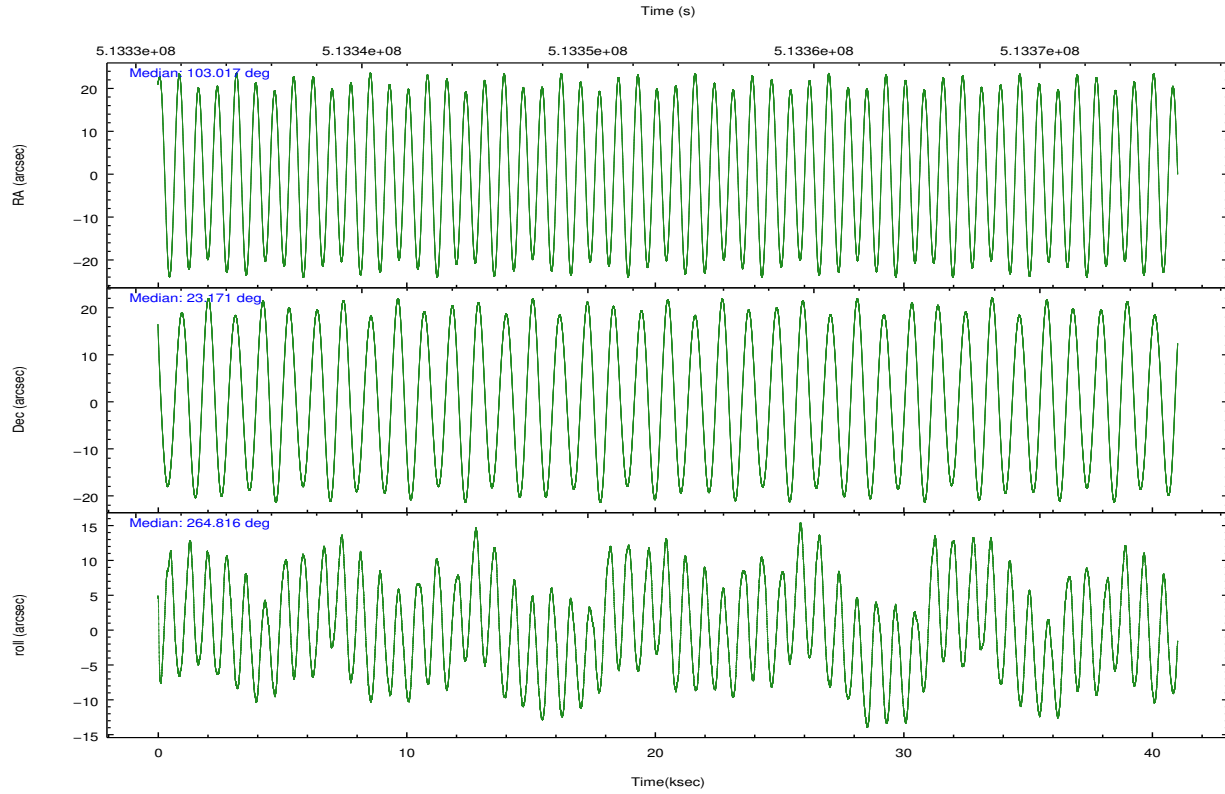
	segment 0
level 1 events	3193127
rejected events	54903
rejected %	1%

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	103.004171	103.0172362582432			
[deg] Pointing Dec	23.195485	23.17102297682394			
[deg] Pointing Roll	264.925050	264.8244247880601			
[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)	513333188.184000	513332356.74448			
Observation start date	2014-04-08T08:32:01	2014-04-08T08:19:16			
[s] Observation end time (MET)	513374041.184000	513375536.92186			
Observation end date	2014-04-08T19:52:54	2014-04-08T20:18:56			

2.3 Aspect



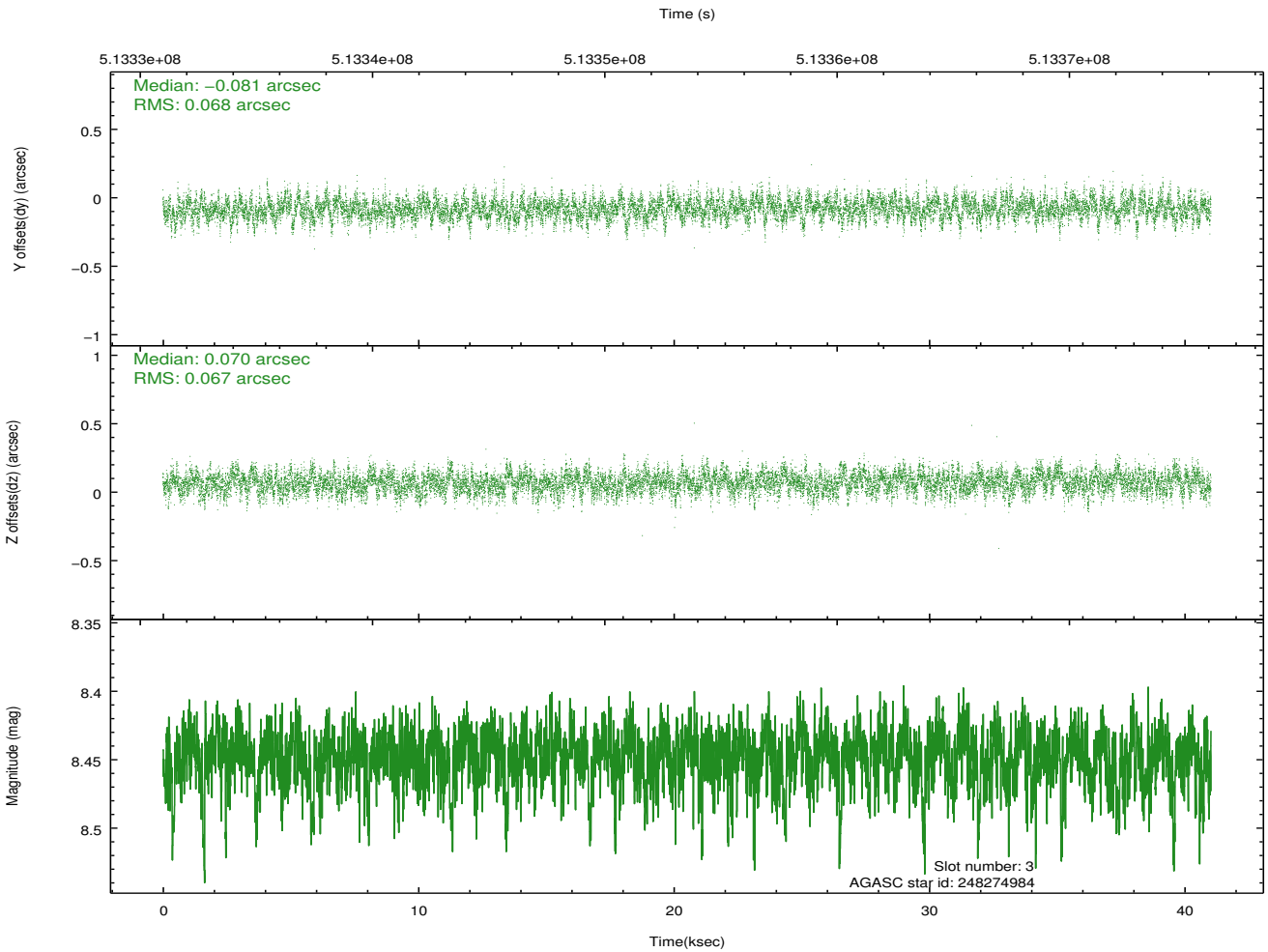
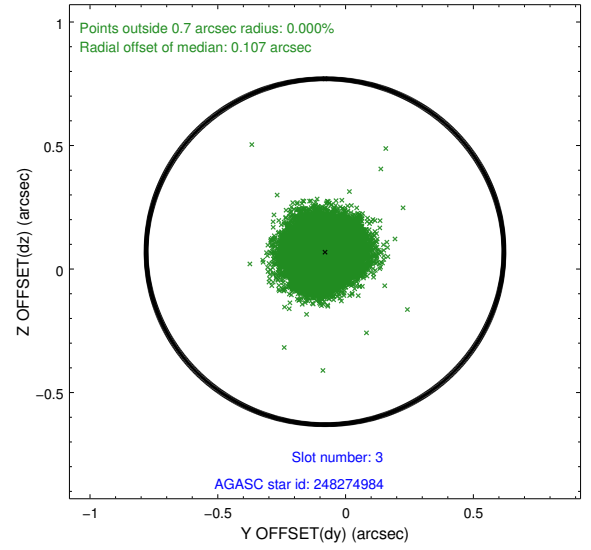
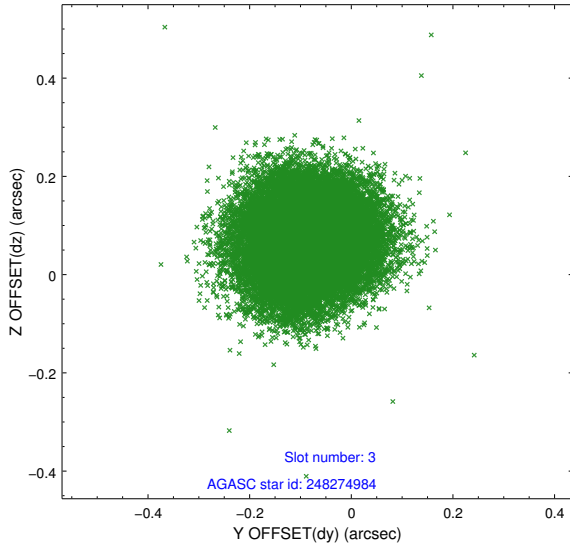


Slot Statistics

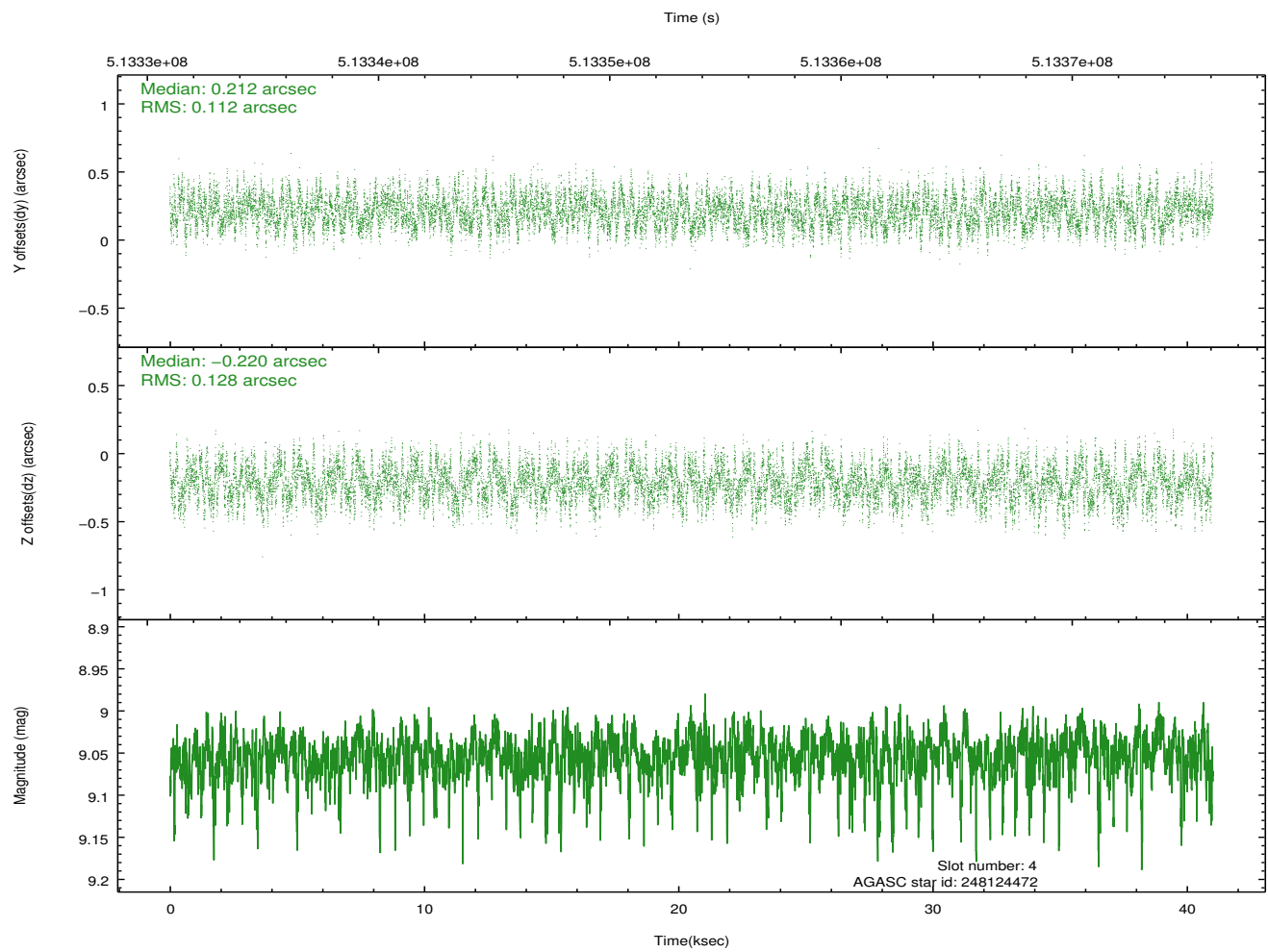
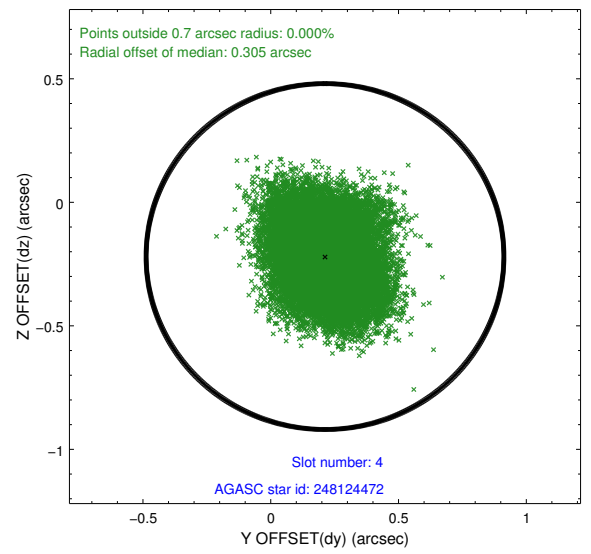
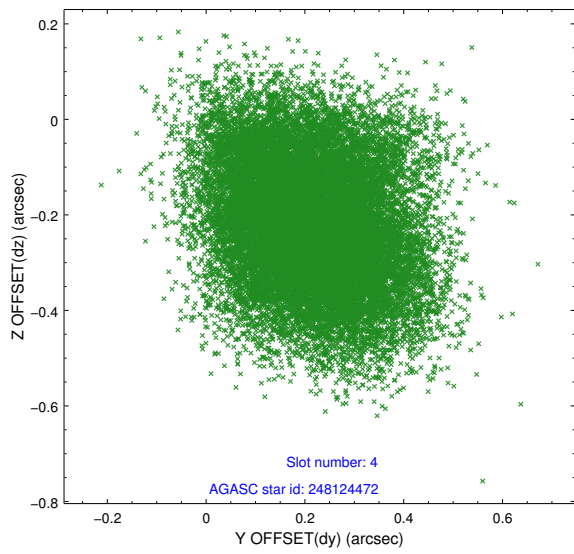
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.97	10008	-0.065	-0.024	0.024	0.030	0.000000	0.000000	-784.94	-1309.07
1	FID		HRC-I-3	7.06	10008	-0.168	-0.127	0.013	0.020	0.000000	0.000000	-1213.49	995.28
2	FID		HRC-I-4	6.98	10008	0.350	0.063	0.031	0.039	0.000000	0.000000	1258.26	993.18
3	GUIDE	used	248274984	8.45	20006	-0.081	0.070	0.103	0.163	102.661152	23.693111	-1685.31	-1284.75
4	GUIDE	used	248124472	9.05	20004	0.212	-0.220	0.183	0.290	102.424052	22.839981	1442.02	-1803.98
5	GUIDE	used	248267112	9.14	20005	-0.233	0.057	0.123	0.204	103.373359	23.602441	-1568.55	1083.56
6	GUIDE	used	248128560	7.27	20016	-0.025	-0.119	0.109	0.175	102.285767	23.201931	181.90	-2369.97
7	GUIDE	used	248130816	9.54	19995	0.126	0.212	0.152	0.255	102.370162	23.537229	-1044.16	-2193.24

2.4 Star Slots

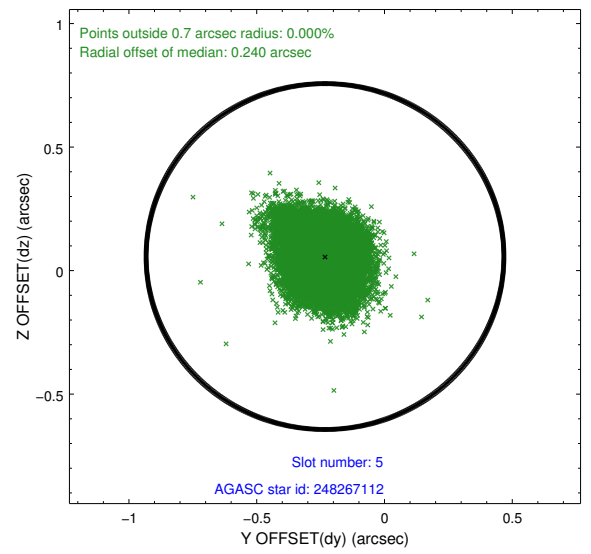
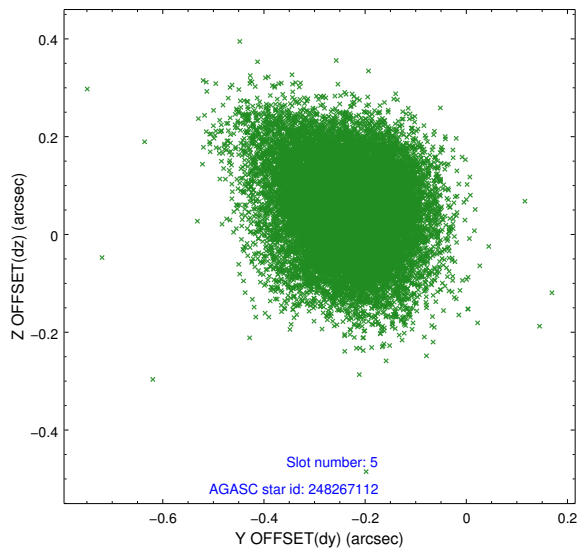
2.4.1 Slot 3



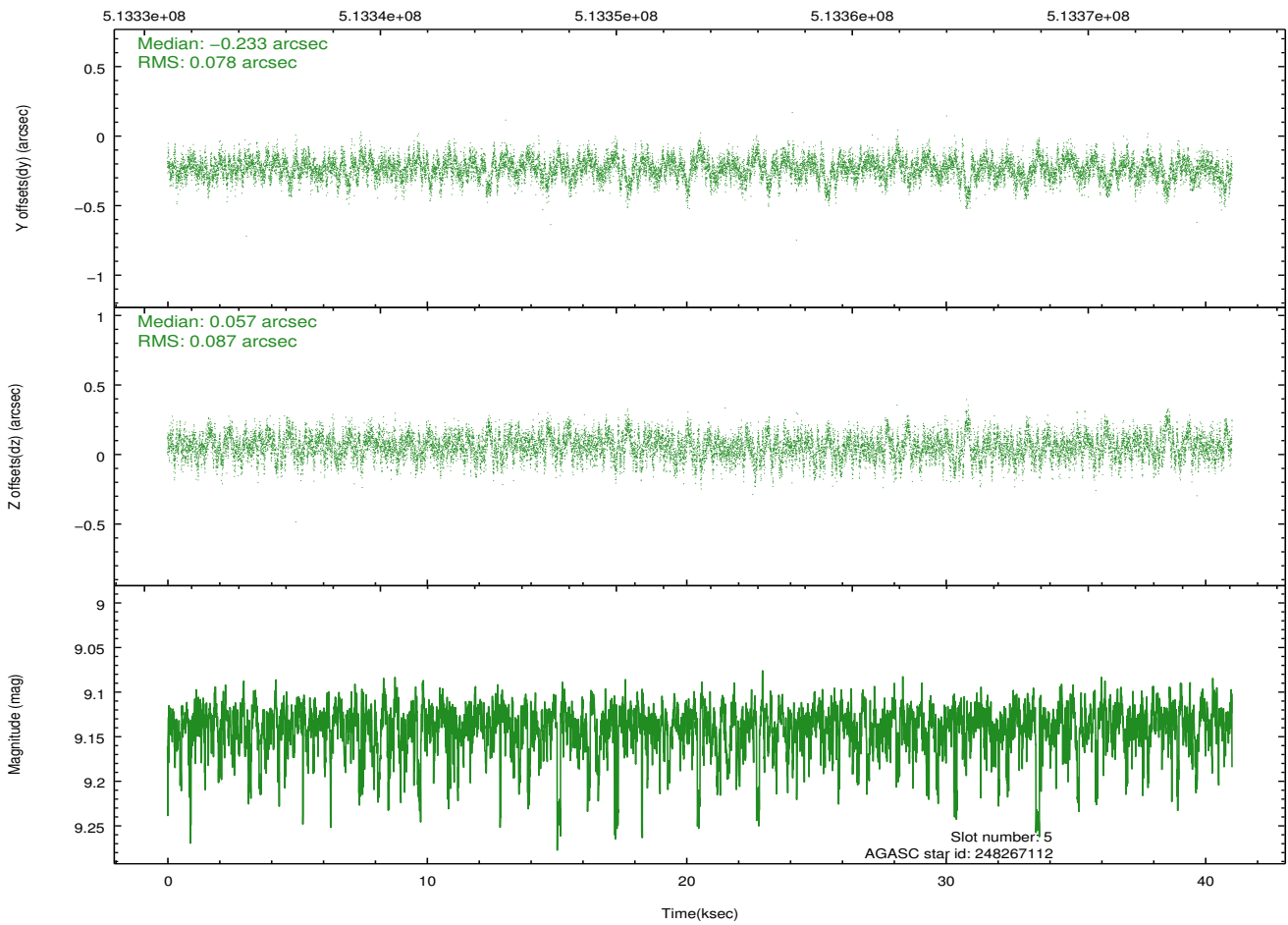
2.4.2 Slot 4



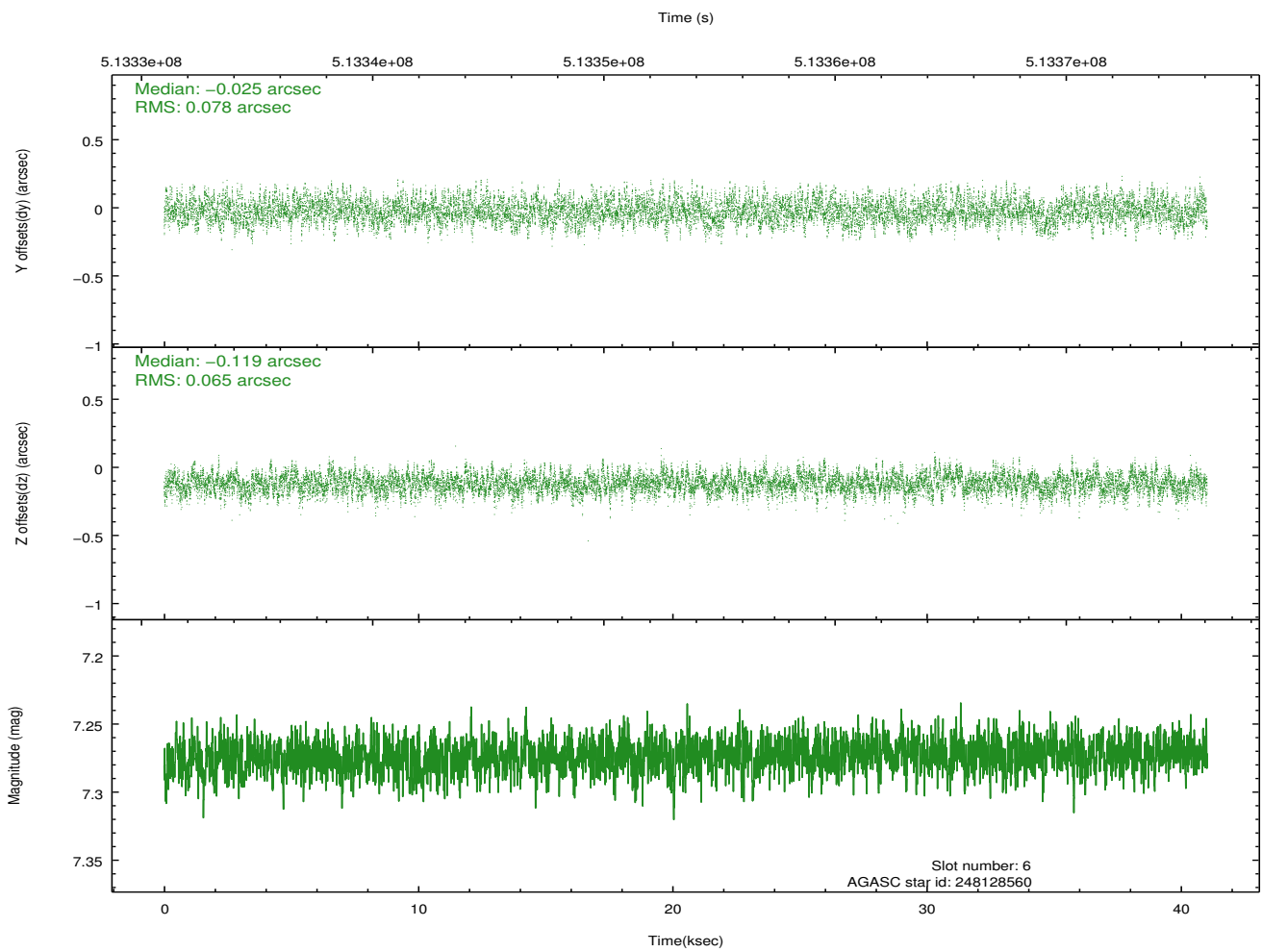
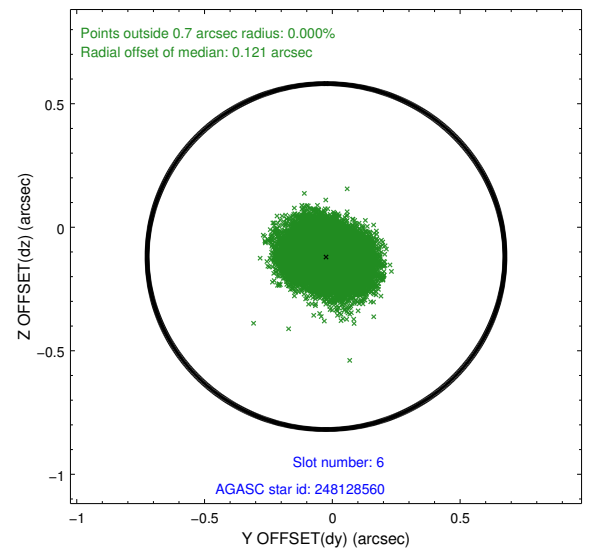
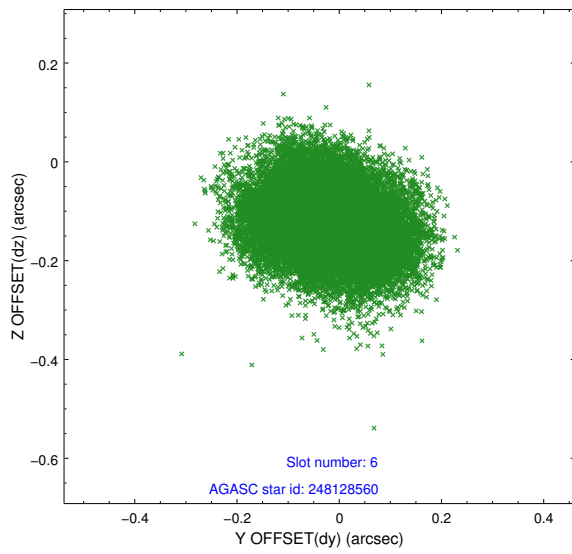
2.4.3 Slot 5



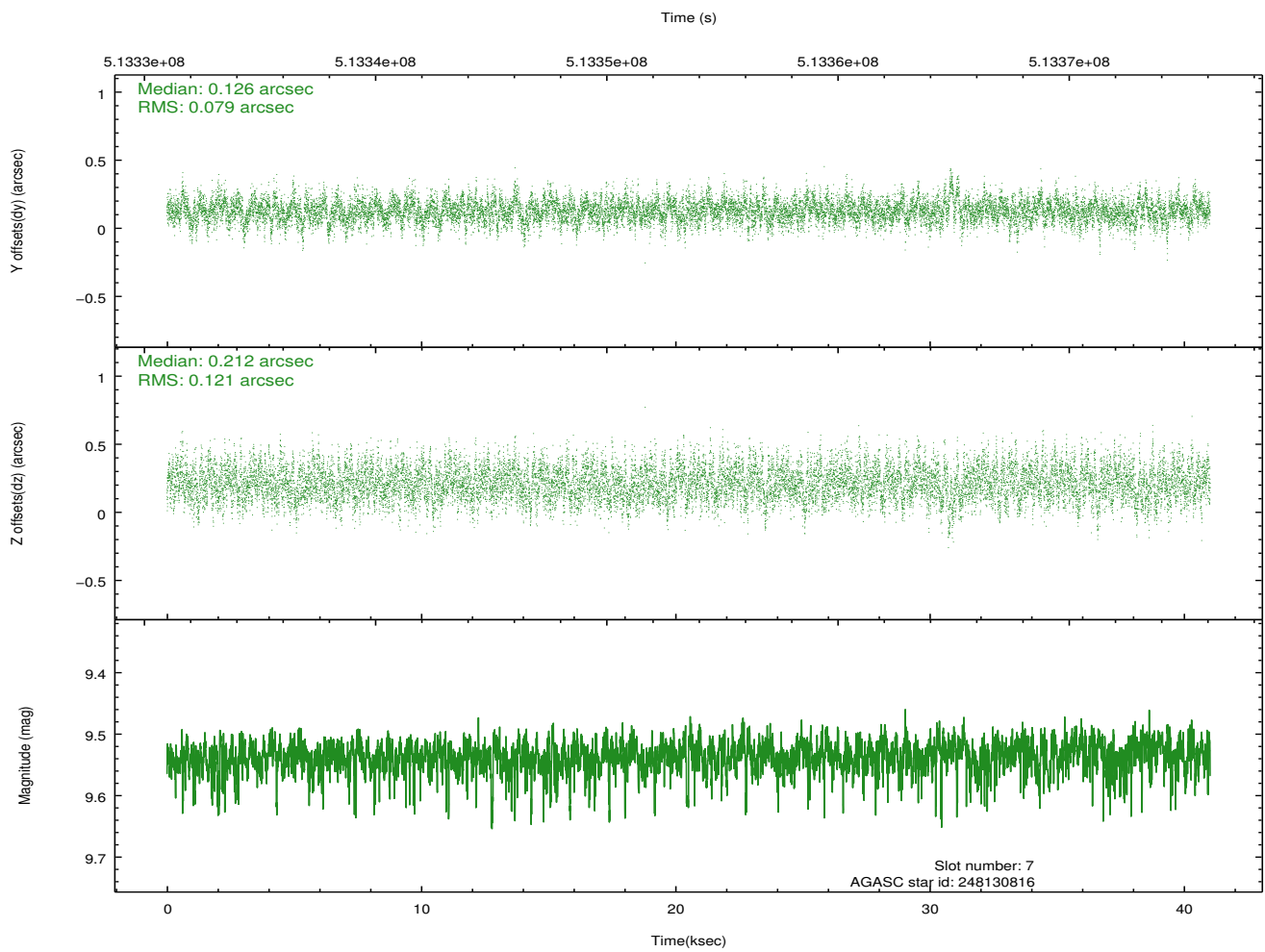
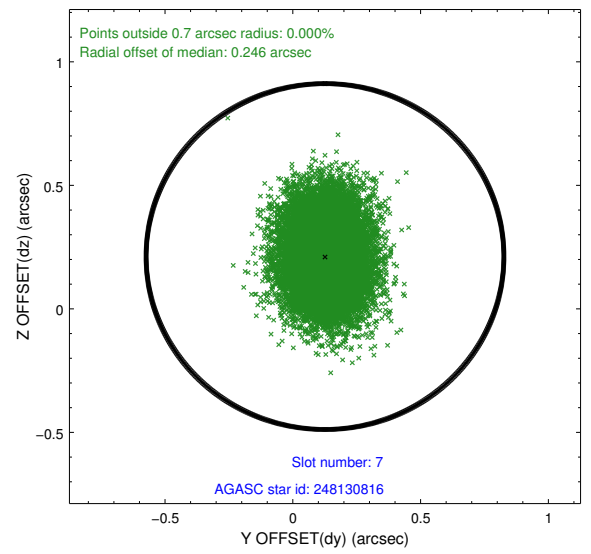
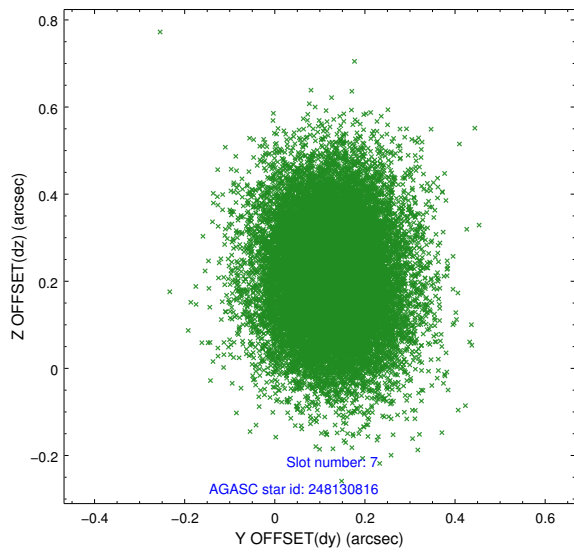
Time (s)



2.4.4 Slot 6

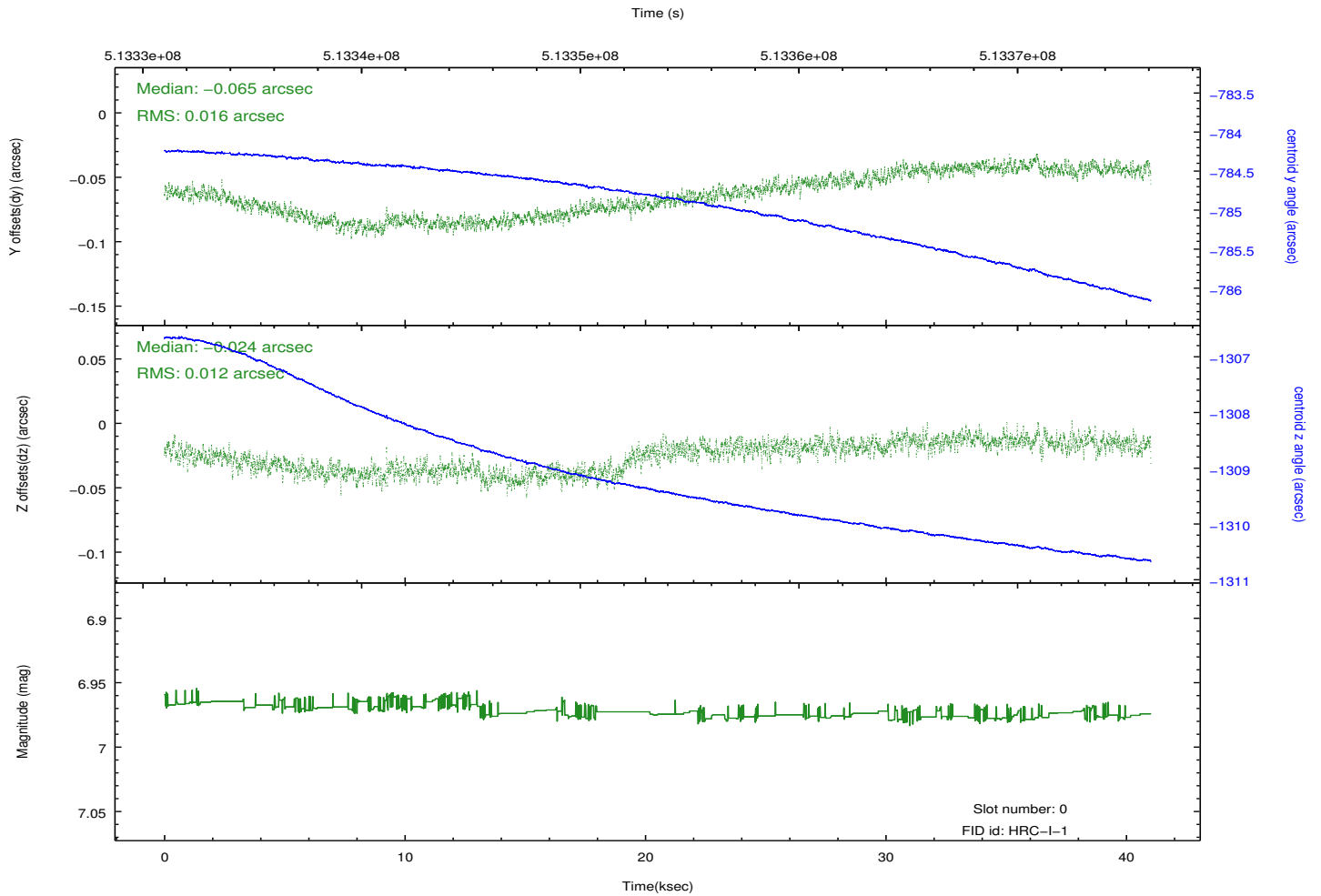
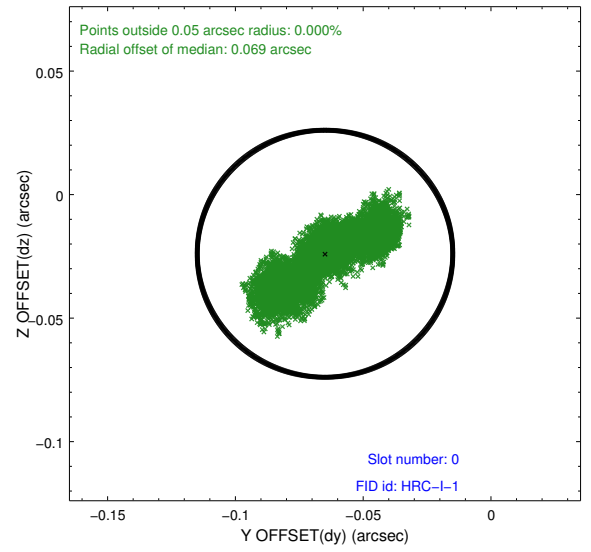
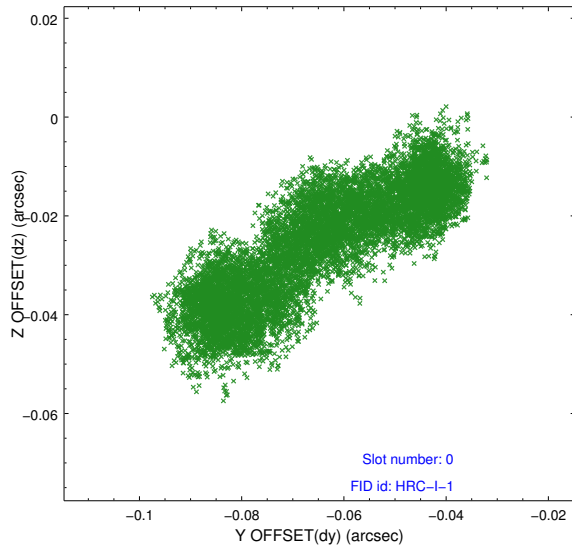


2.4.5 Slot 7

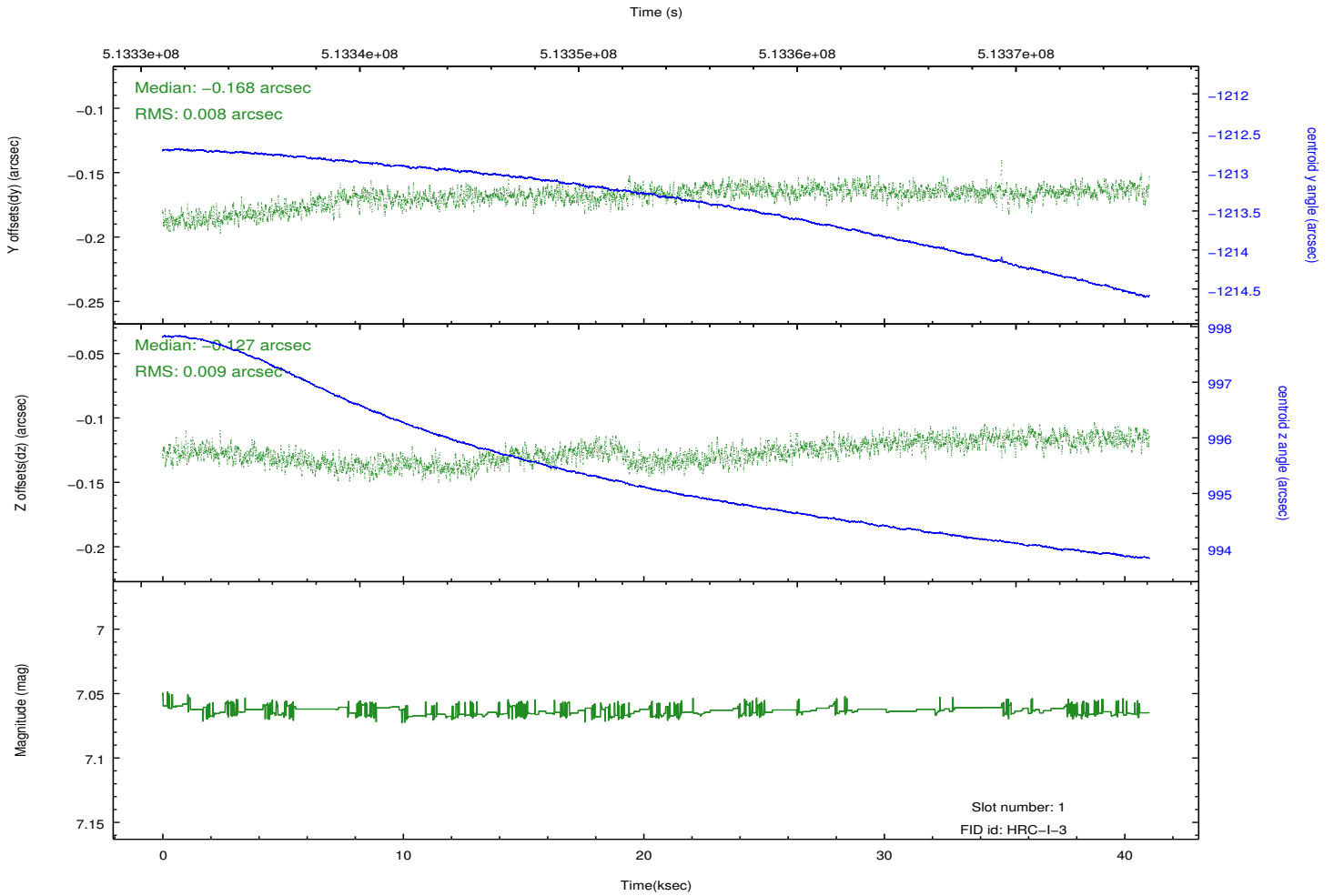
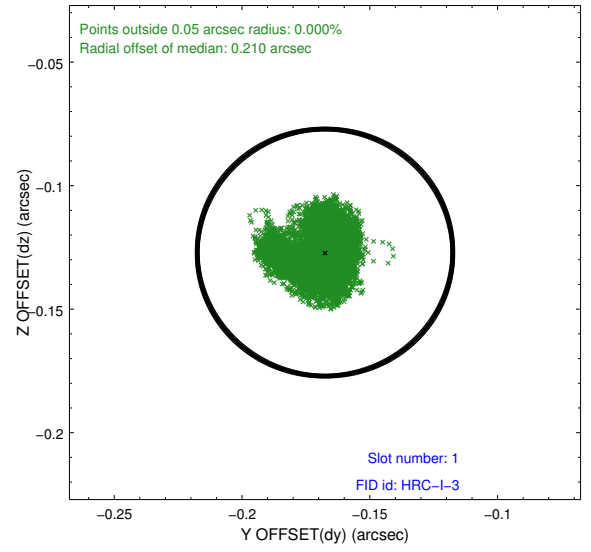
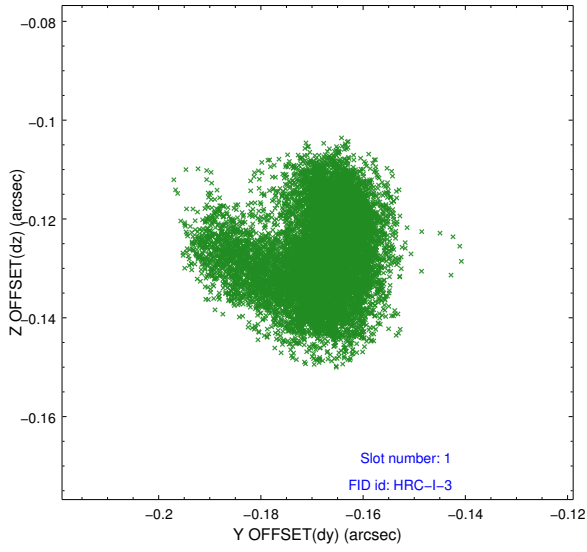


2.5 FID Slots

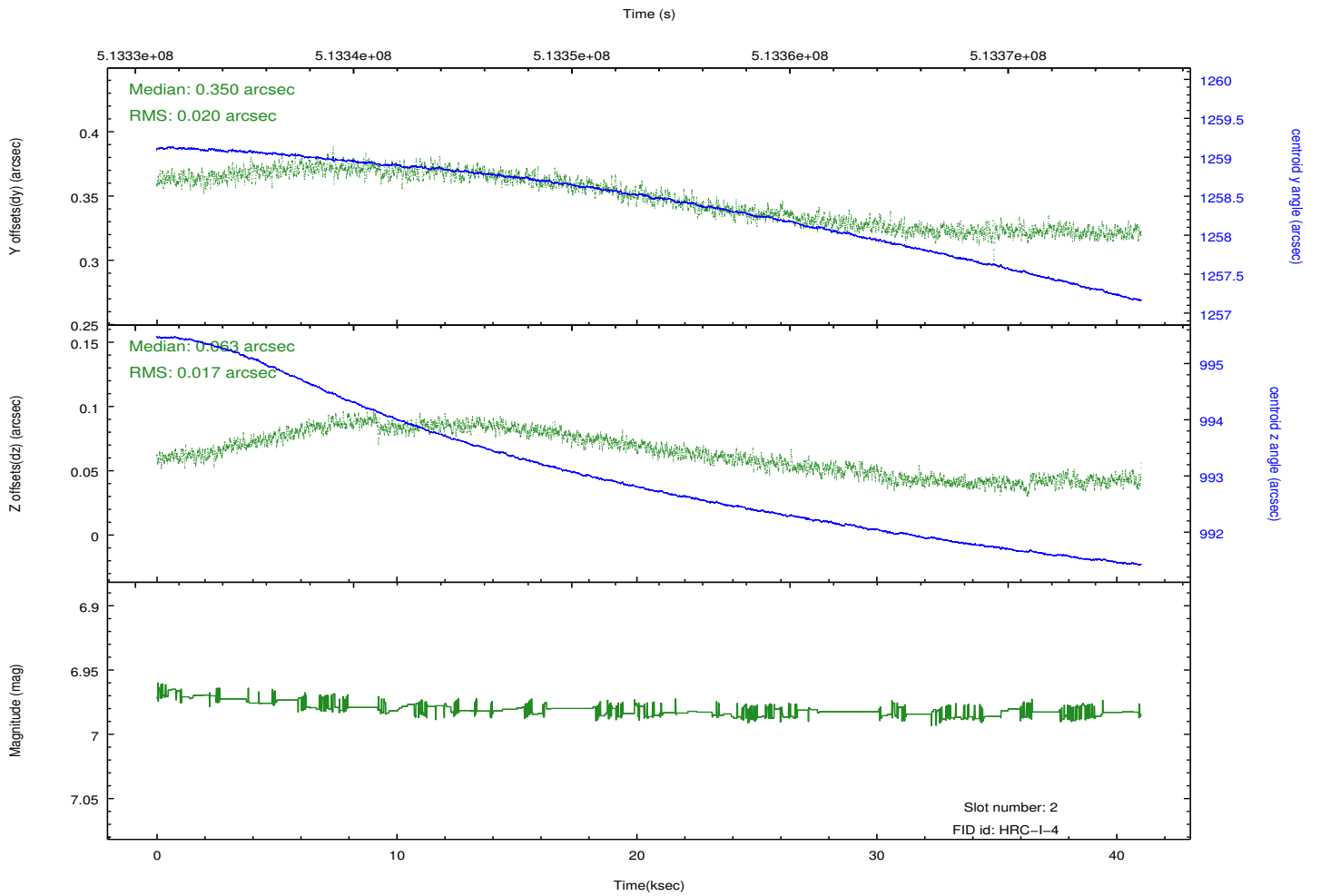
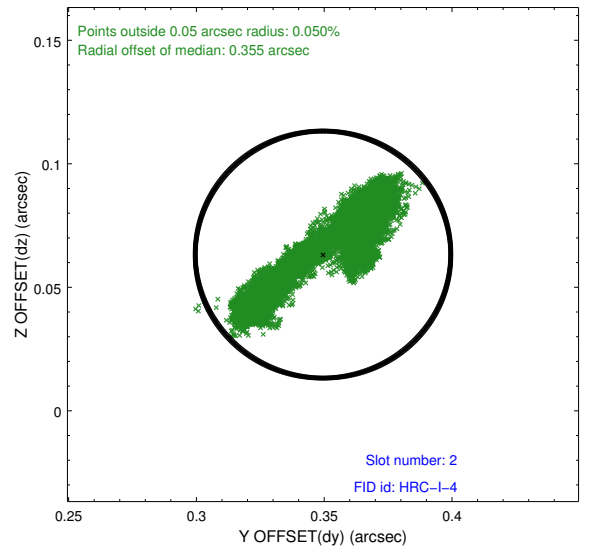
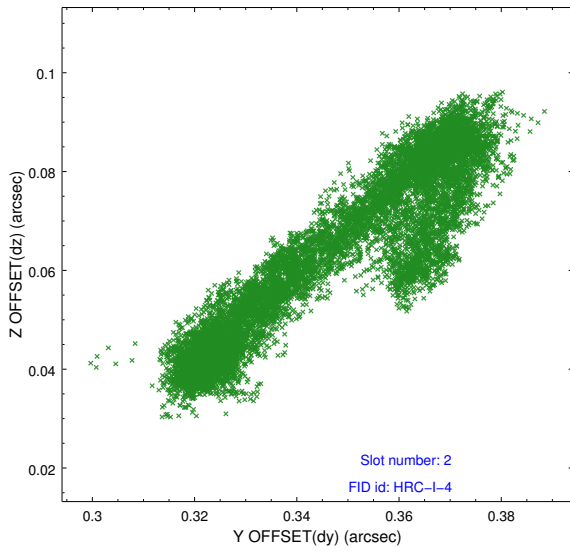
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.0317772578

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.