

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15669 - L2 Version 2
Chandra X-Ray Center

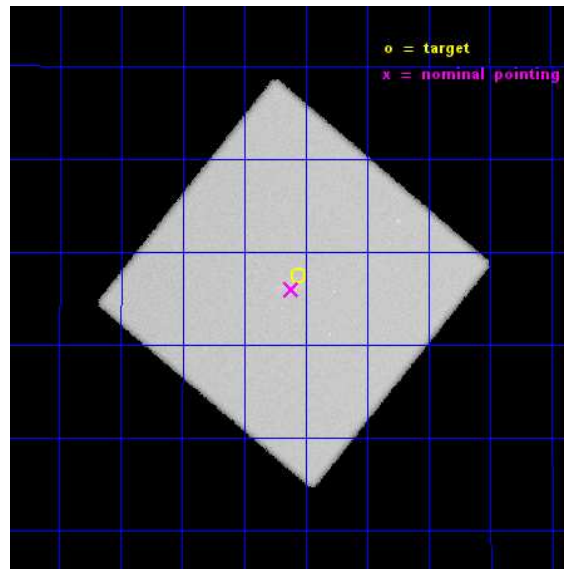
L2 Processing Date : Dec 10 2014

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1 Front

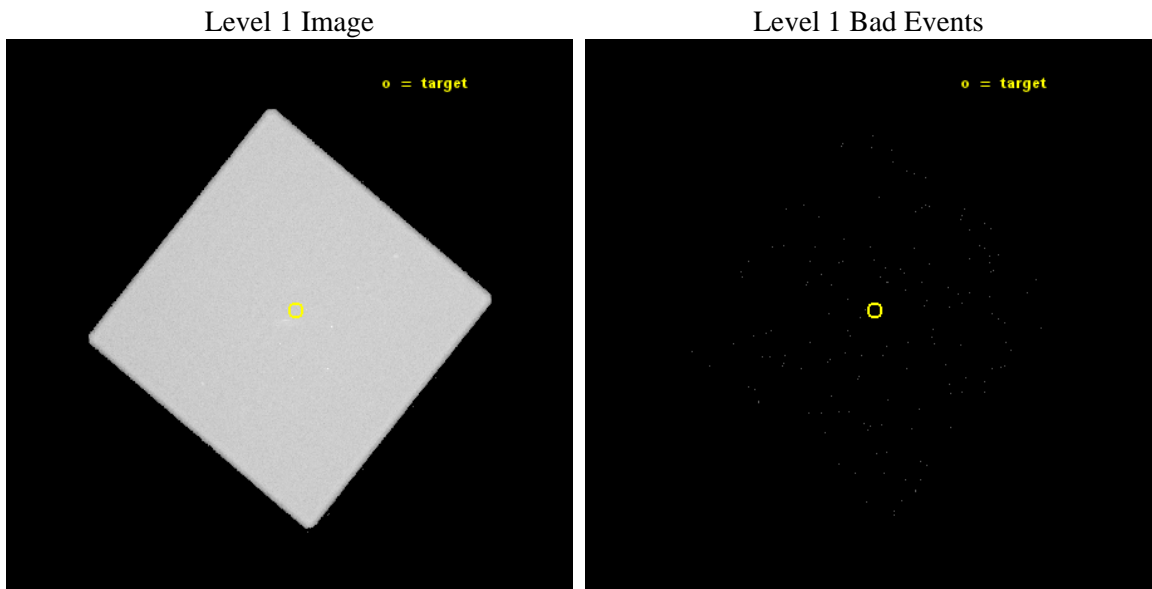
seq_num	100098	Sequence number
obs_id	15669	Observation id
title	Plasma in the Jovian magnetosphere: An X-ray and EUV study of the aurora and the Io plasma torus	Proposal title
observer	Dr. Ralph Kraft	Principal investigator
object	Jupiter	Source name
ra_targ	103.8908	Observer's specified target RA [deg]
dec_targ	23.12459	Observer's specified target Dec [deg]
ra_nom	103.90375765114	Nominal RA [deg]
dec_nom	23.100124738707	Nominal Dec [deg]
roll_nom	264.53015464624	Nominal Roll [deg]
revision	2	Processing version of data
ontime	38129.233353436	[s]
liveltime	37847.785104557	Ontime multiplied by DTCOR
l2events	2168948	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	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	38129.233353436	[s]
caldbver	4.6.4	 	l1events	3049407	Number of level 1 events
date	2014-12-11T02:45:27	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

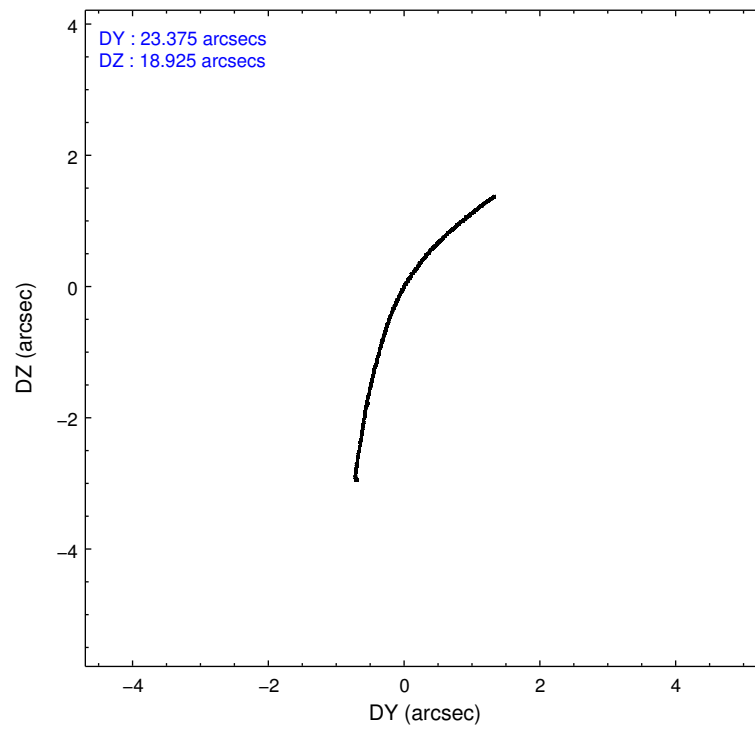
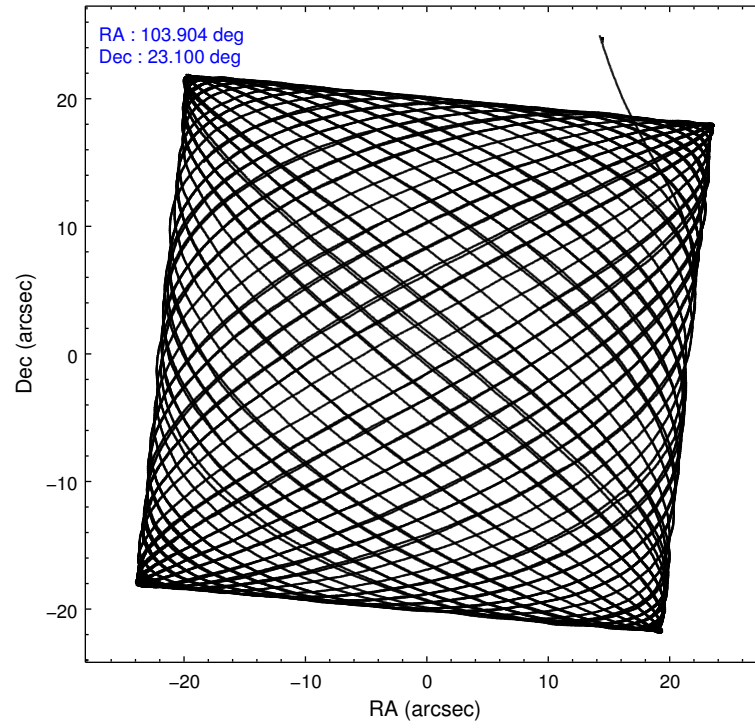
Level 1 Events

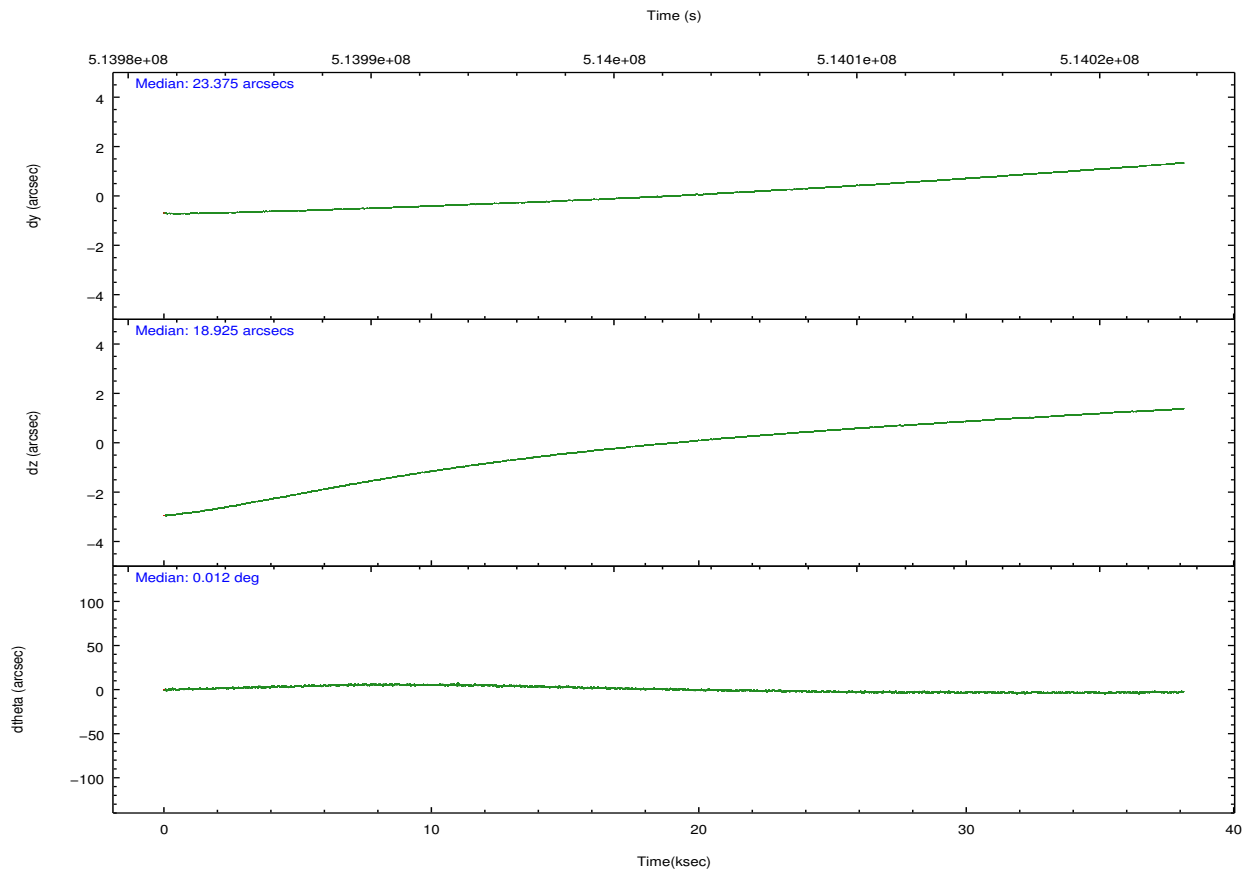
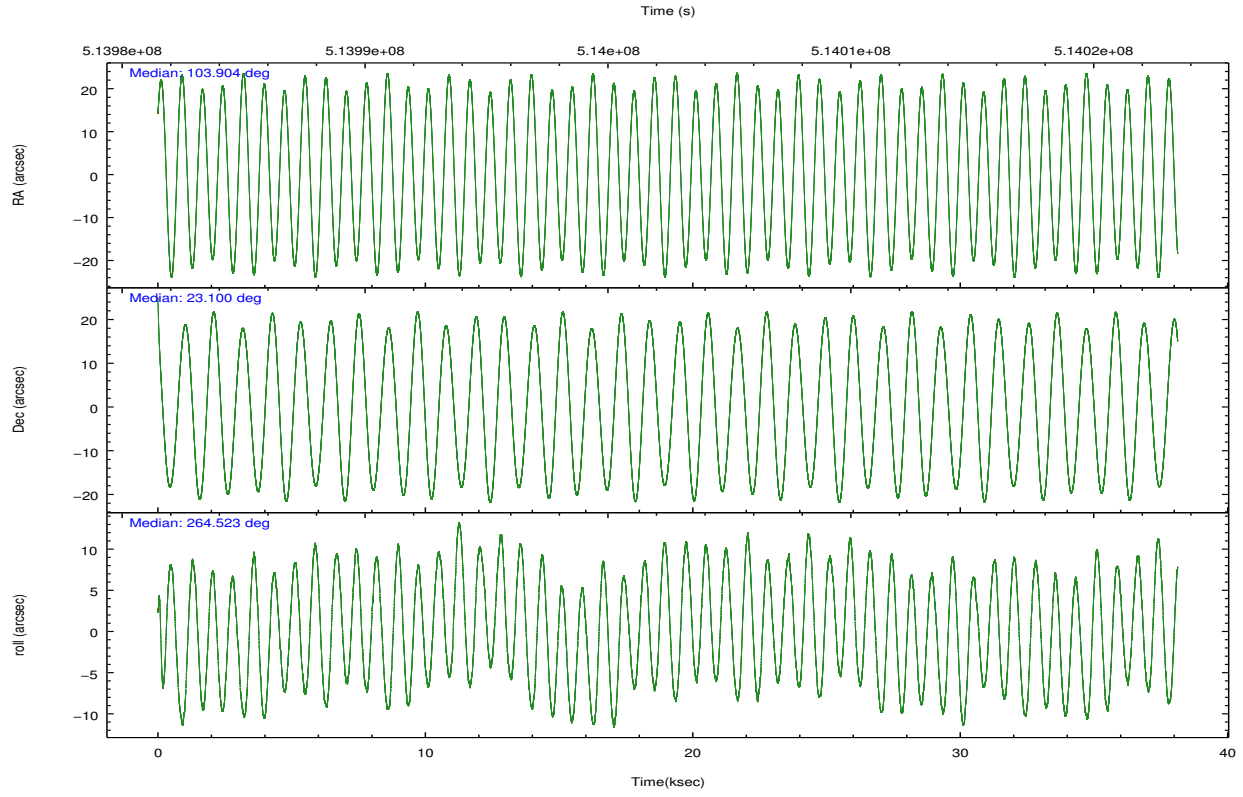
	segment 0
level 1 events	3049407
rejected events	121772
rejected %	3%

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	103.890833	103.9037576511446			
[deg] Pointing Dec	23.124598	23.10012473870692			
[deg] Pointing Roll	264.630720	264.5301546462394			
[s] Window start time (MET)	513216067.184000	513216067.184000			
[s] Window stop time (MET)	514425607.184000	514425607.184000			
[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)	513983522.184000	513981851.1053			
Observation start date	2014-04-15T21:10:55	2014-04-15T20:44:11			
[s] Observation end time (MET)	514021522.184000	514022088.50752			
Observation end date	2014-04-16T07:44:15	2014-04-16T07:54:48			

2.3 Aspect





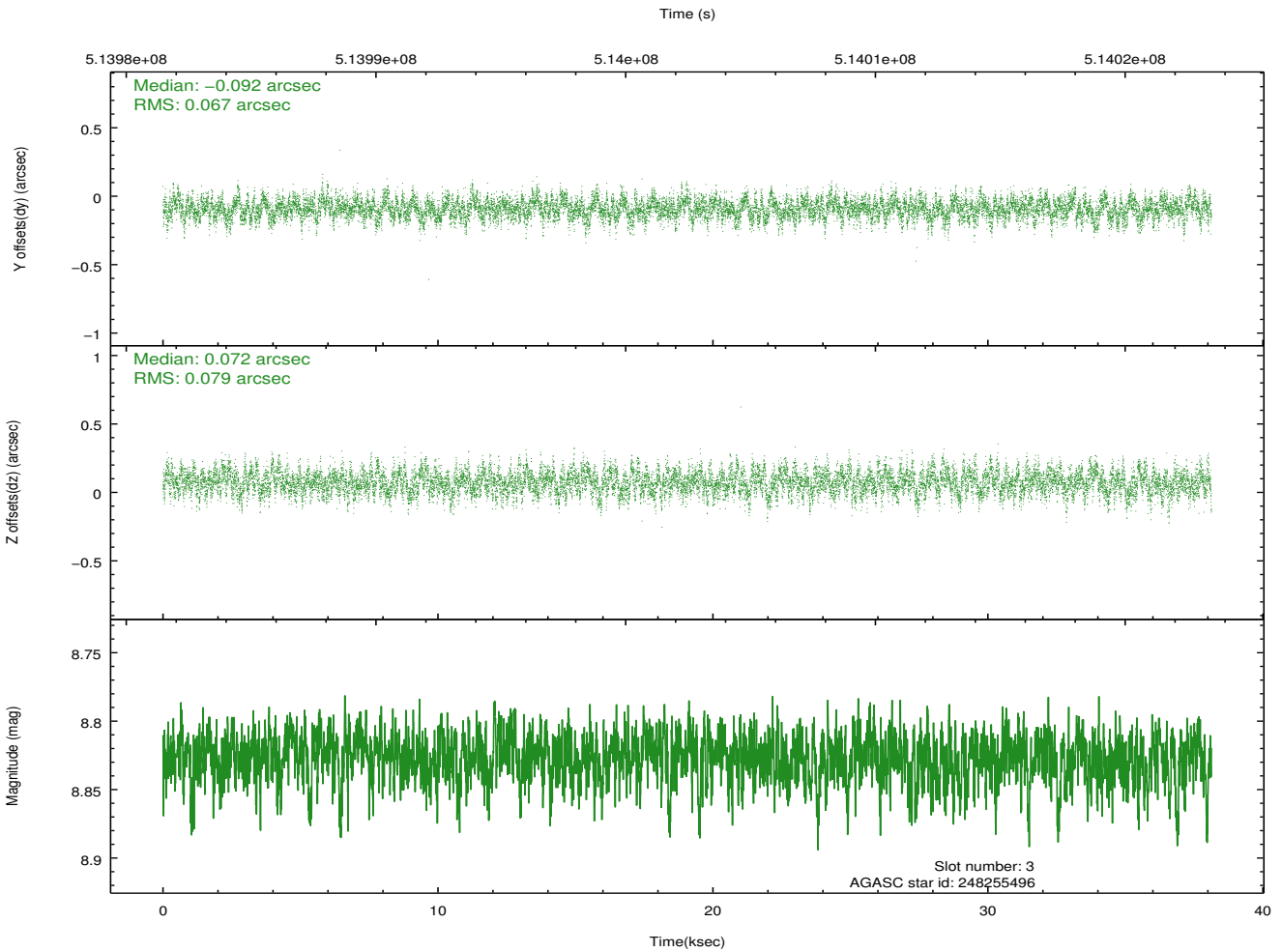
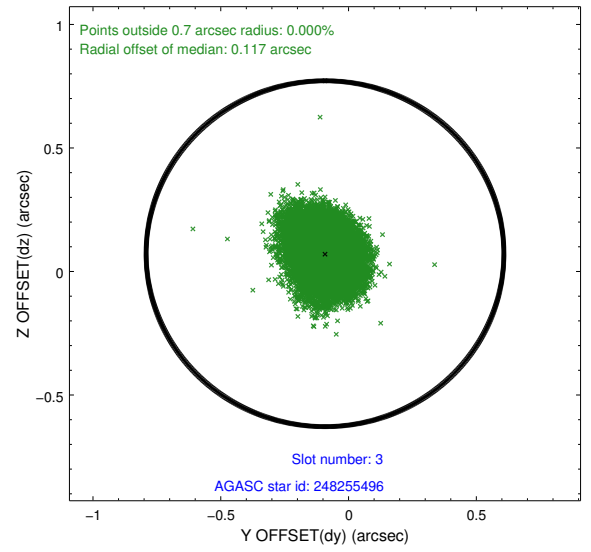
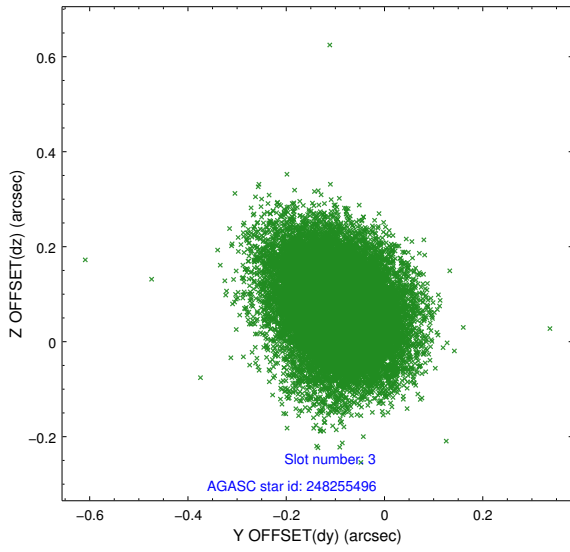
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.96	9301	-0.055	-0.024	0.030	0.039	0.000000	0.000000	-779.66	-1306.79
1	FID		HRC-I-3	7.05	9301	-0.164	-0.122	0.023	0.039	0.000000	0.000000	-1208.19	997.56
2	FID		HRC-I-4	6.97	9298	0.327	0.055	0.026	0.033	0.000000	0.000000	1263.53	995.44
3	GUIDE	used	248255496	8.83	18594	-0.092	0.072	0.110	0.179	104.297614	23.333290	-875.39	1268.25
4	GUIDE	used	248263744	8.68	18596	0.079	-0.075	0.086	0.143	103.469515	22.947340	764.62	-1330.84
5	GUIDE	used	248263856	8.24	18595	0.007	-0.048	0.085	0.138	103.351351	23.130867	142.16	-1780.48
6	GUIDE	used	177746008	7.02	18512	-0.122	-0.160	0.109	0.163	104.548959	22.475883	2114.08	2398.61
7	GUIDE	used	248267112	9.13	18573	0.117	0.212	0.151	0.249	103.373359	23.602441	-1555.17	-1860.59

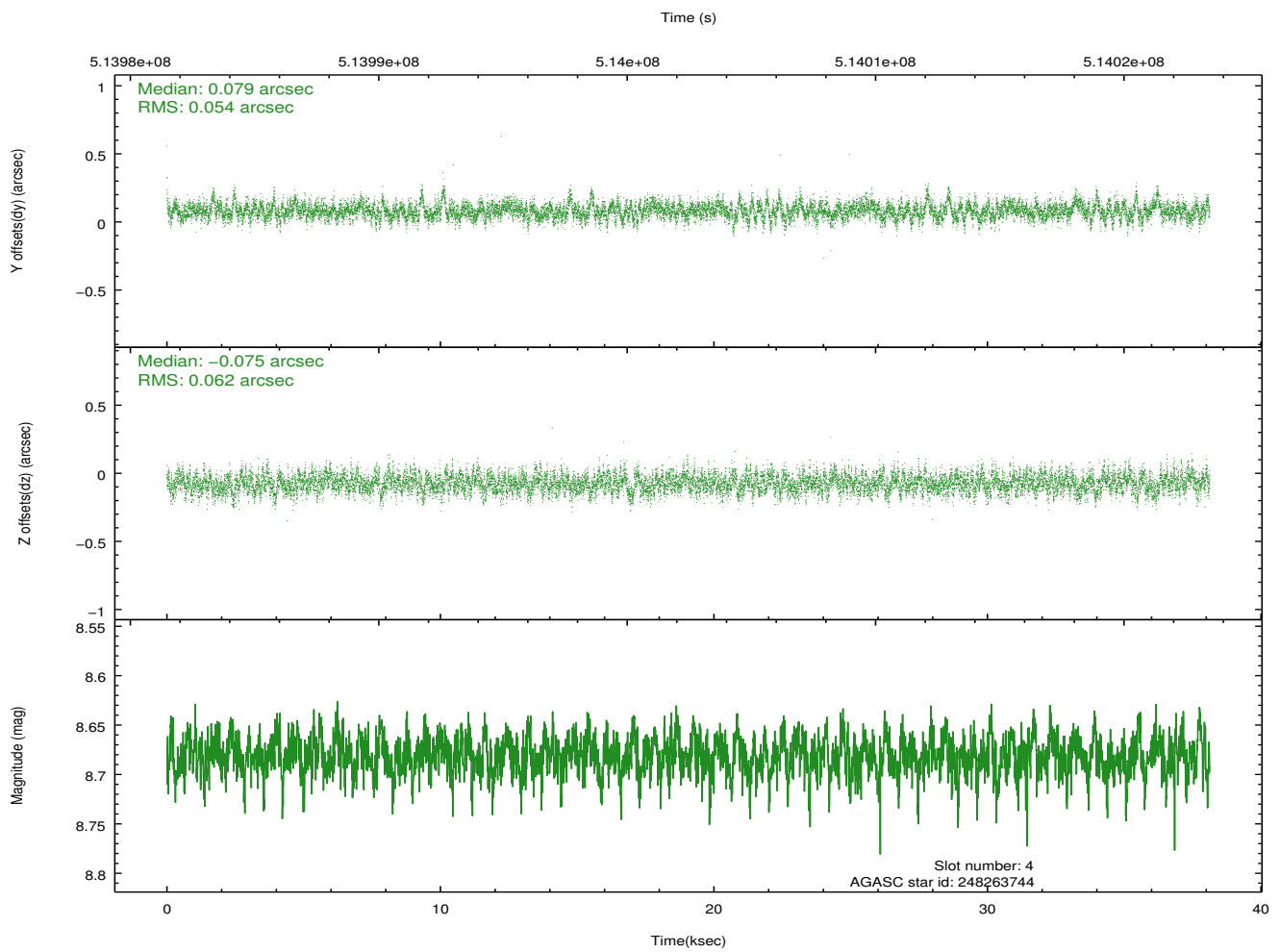
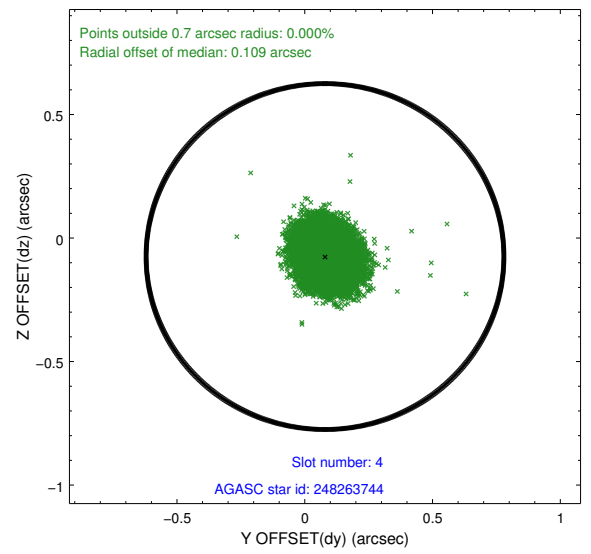
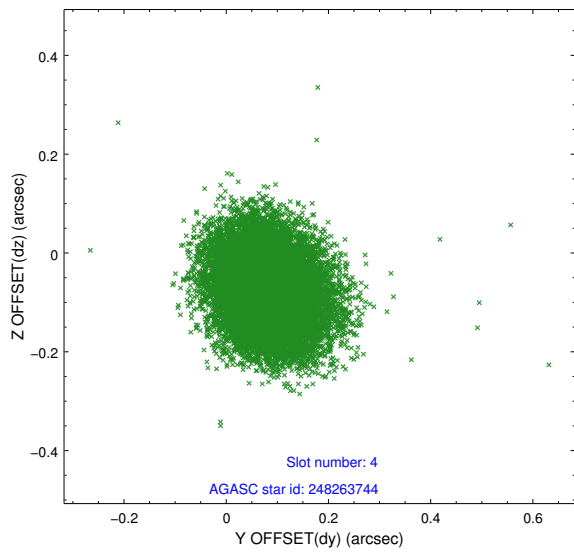
∞

2.4 Star Slots

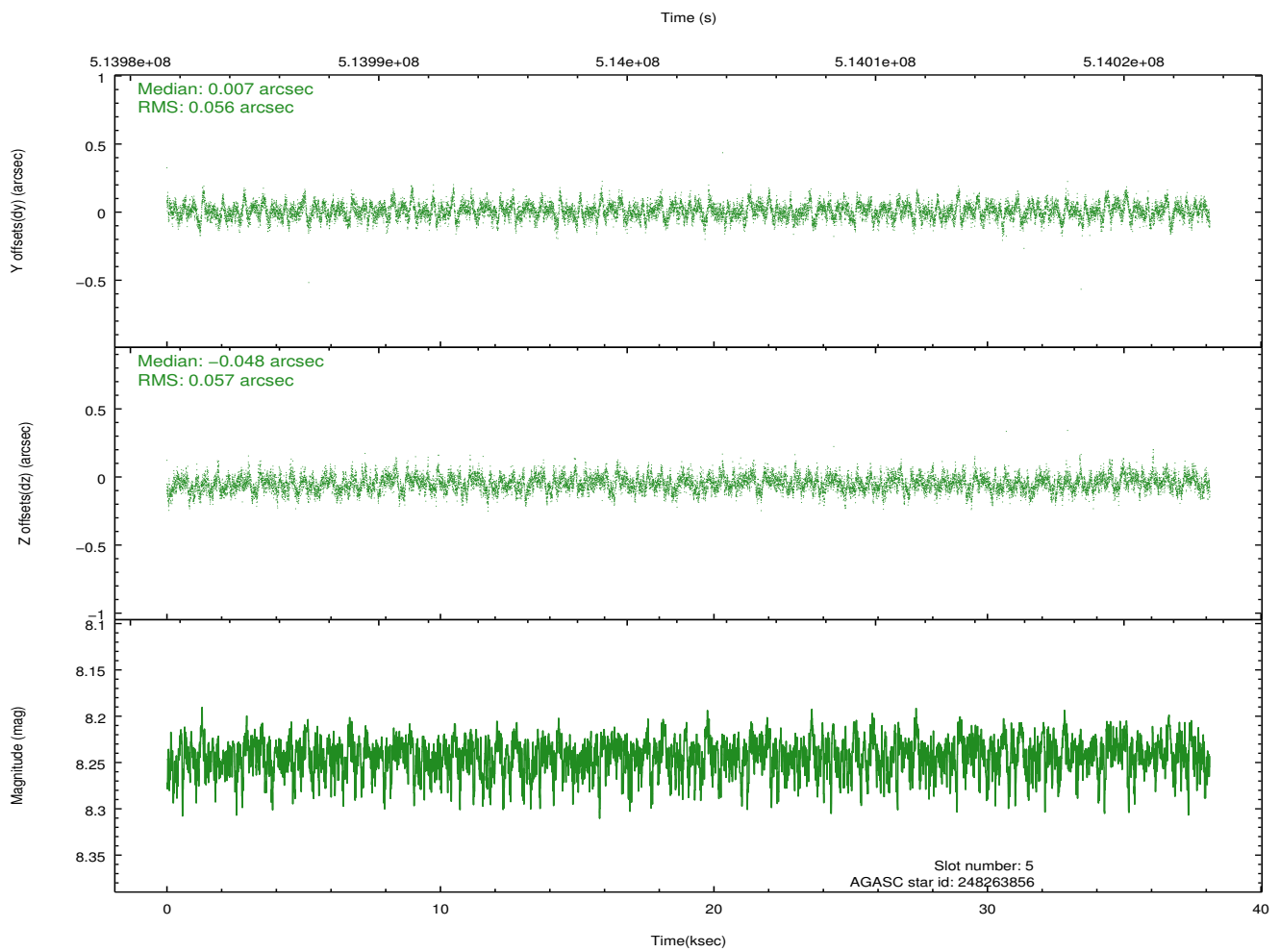
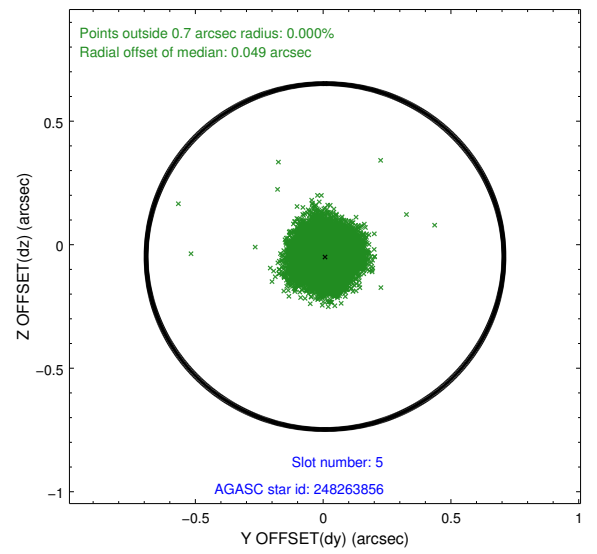
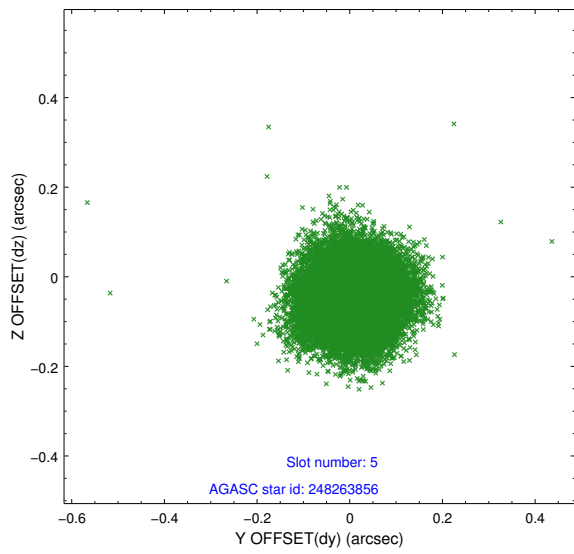
2.4.1 Slot 3



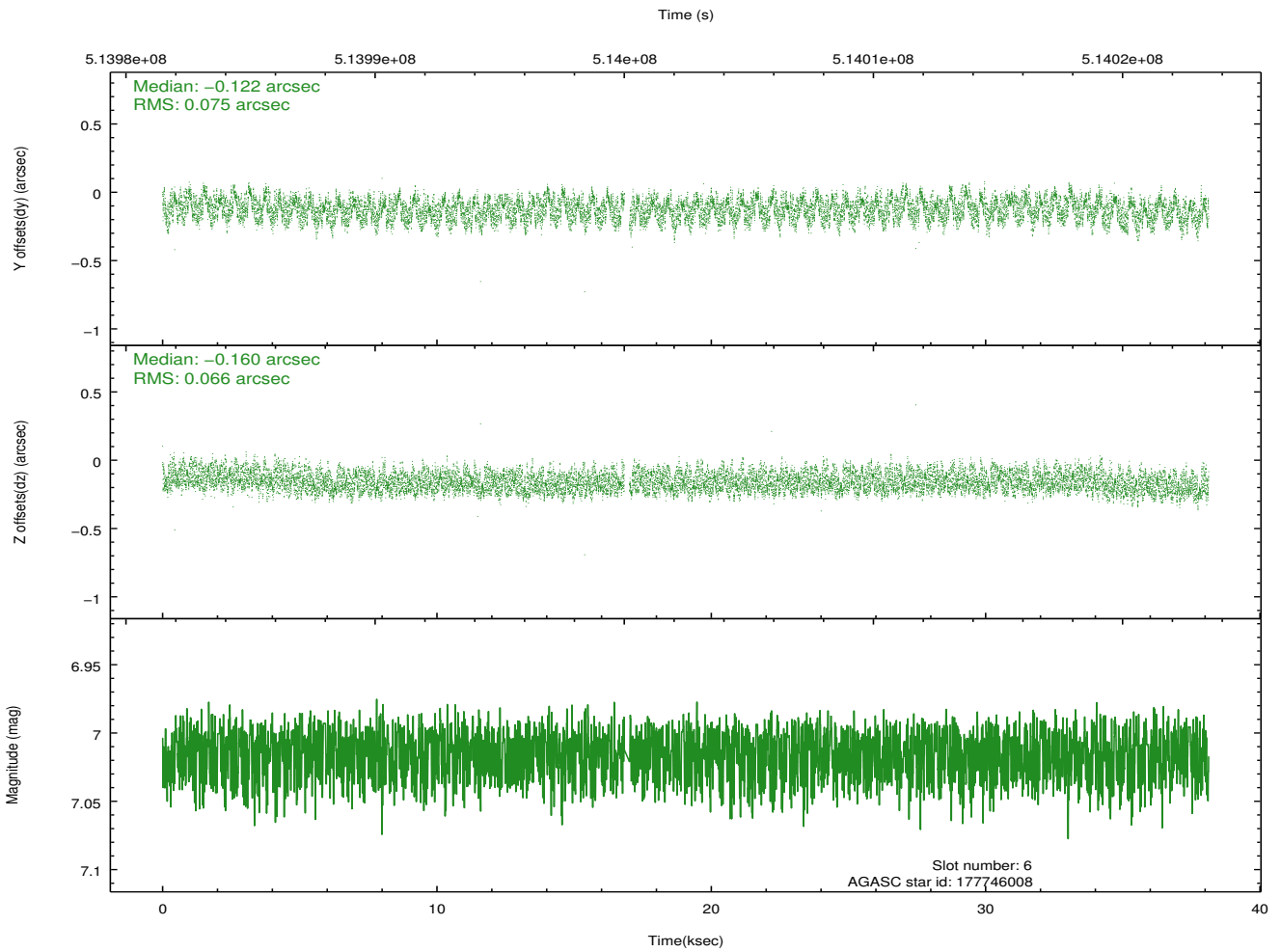
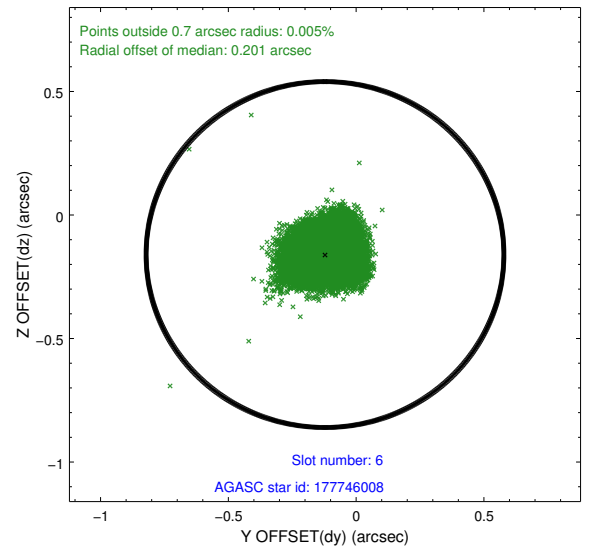
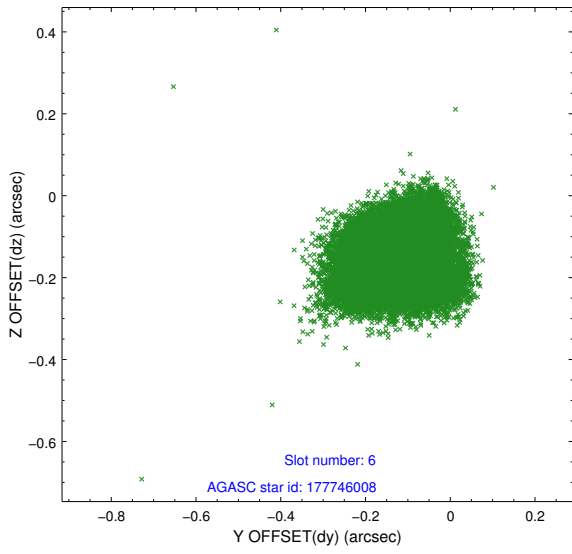
2.4.2 Slot 4



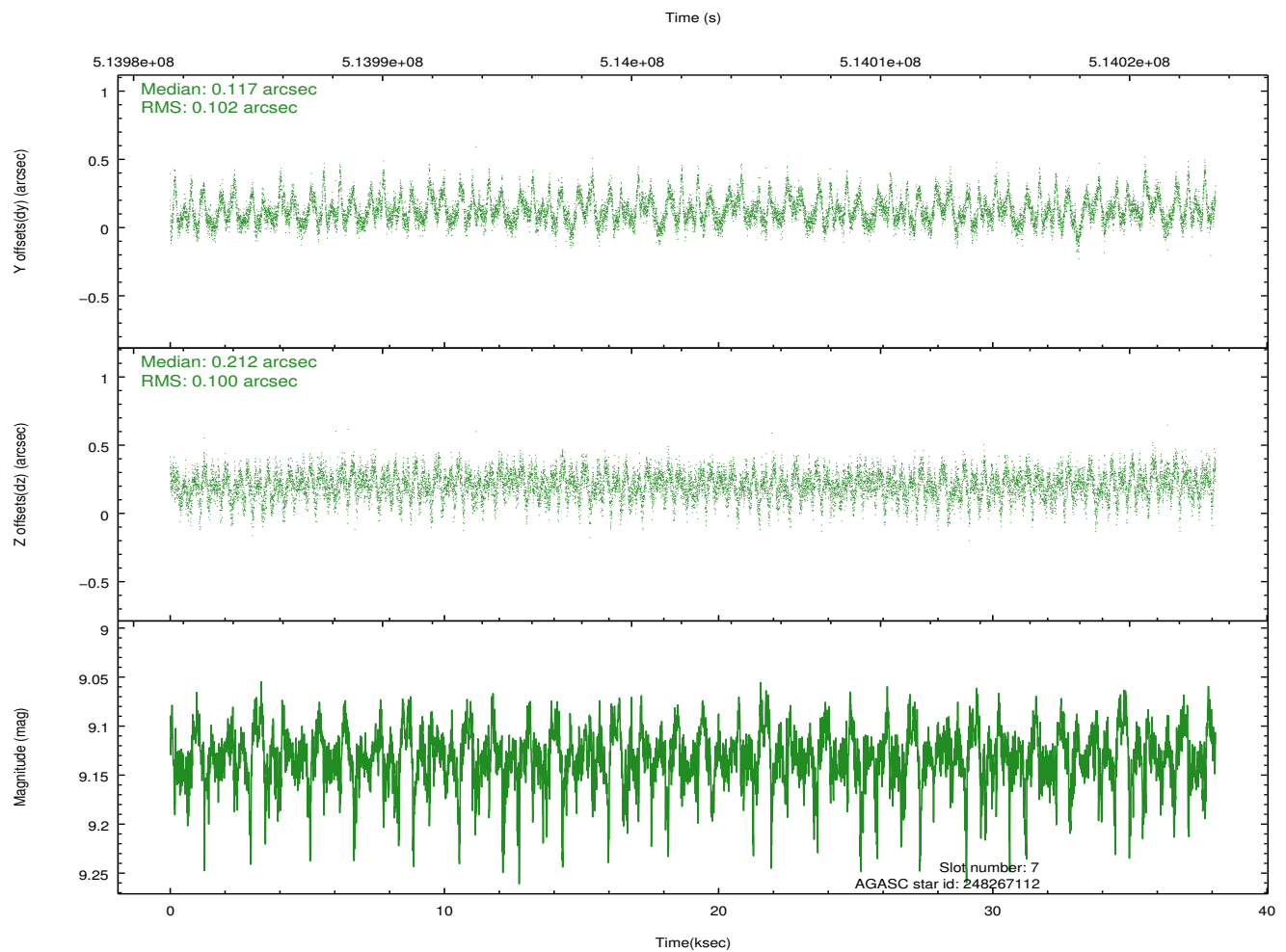
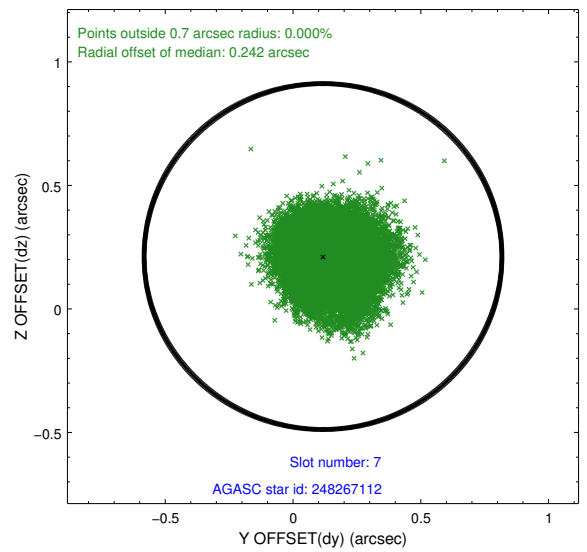
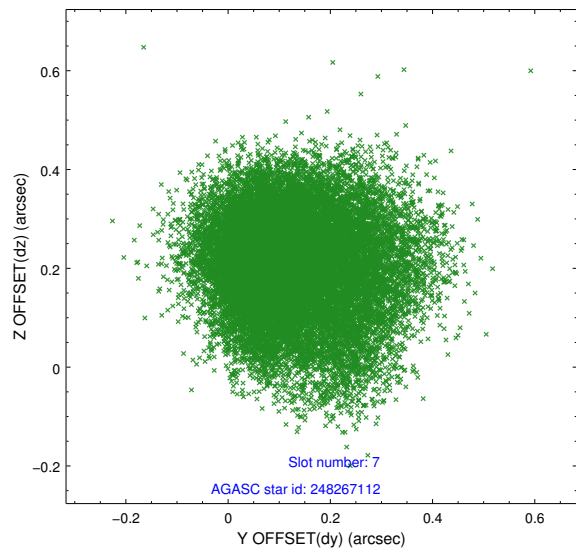
2.4.3 Slot 5



2.4.4 Slot 6

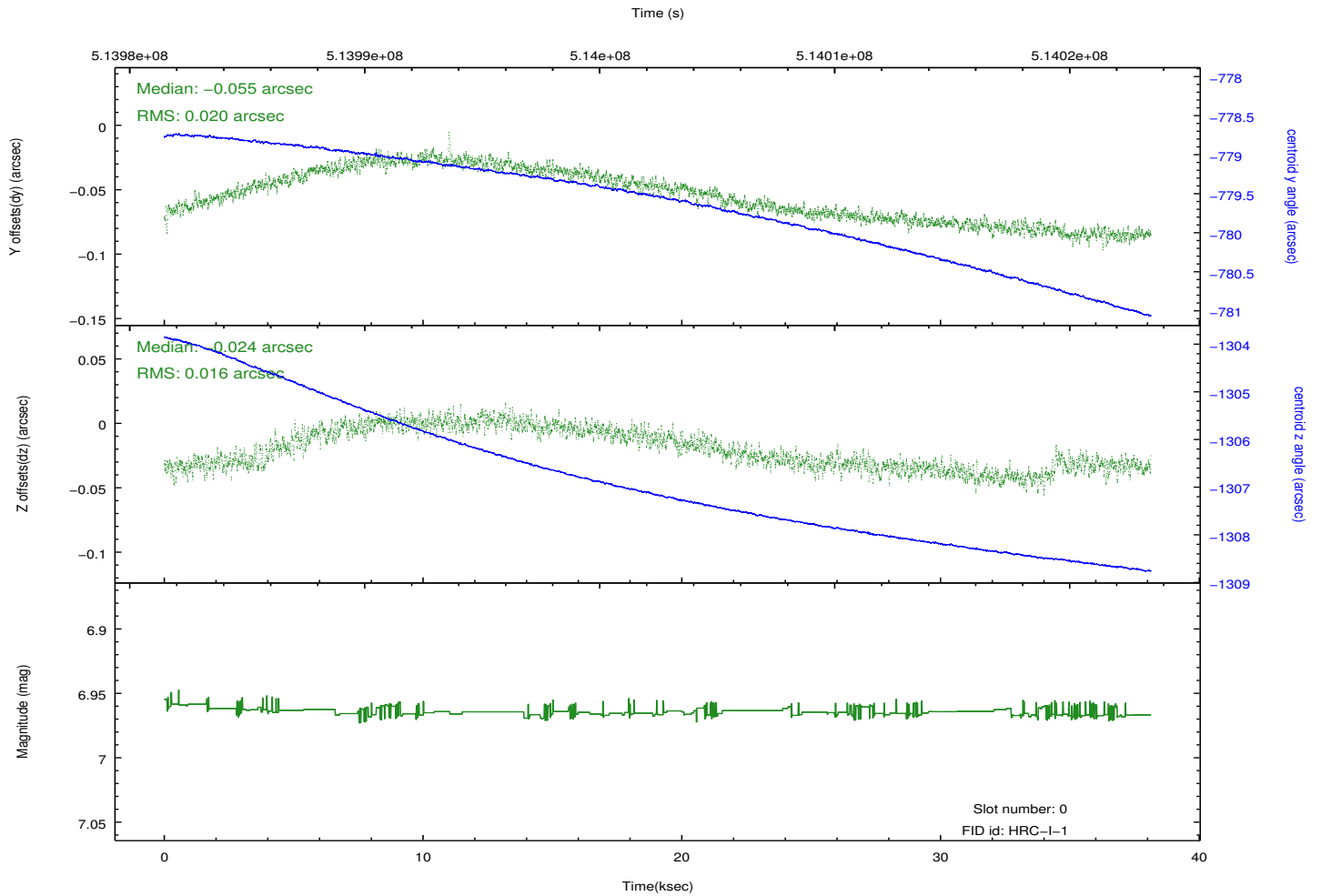
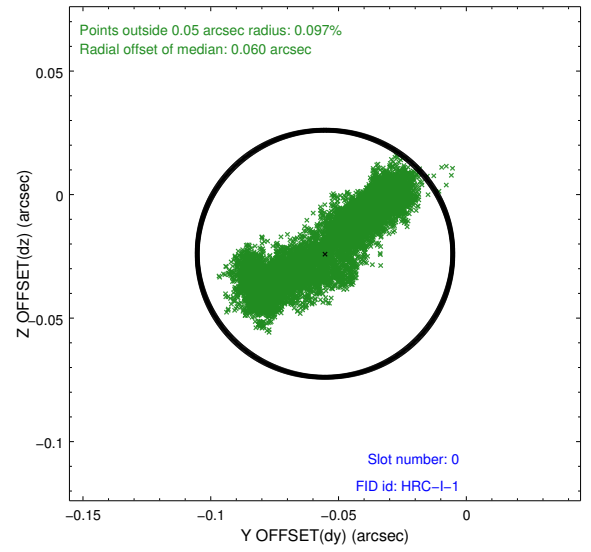
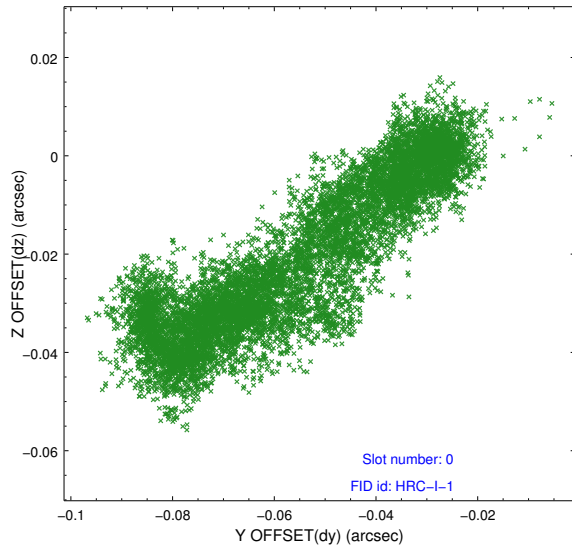


2.4.5 Slot 7

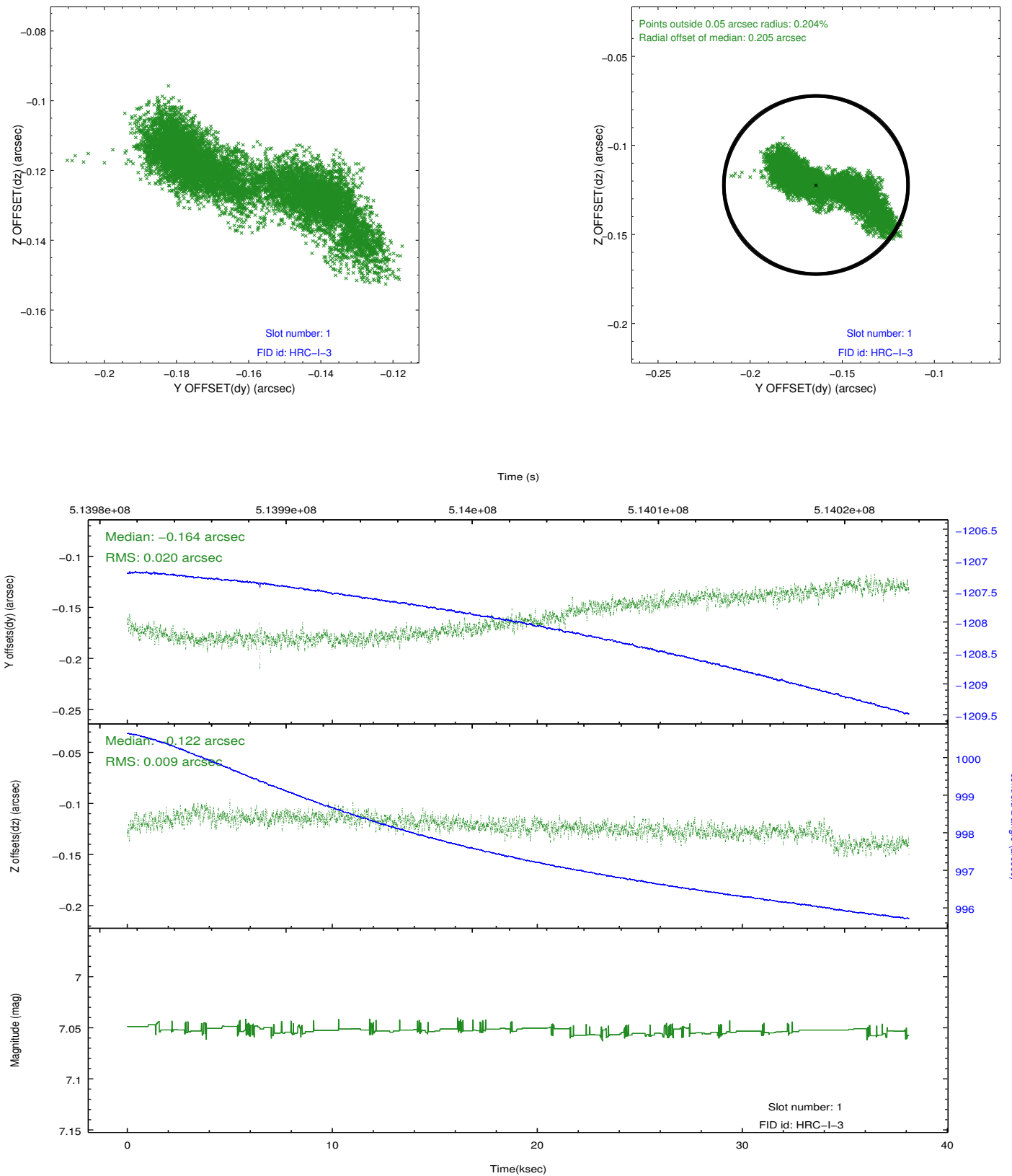


2.5 FID Slots

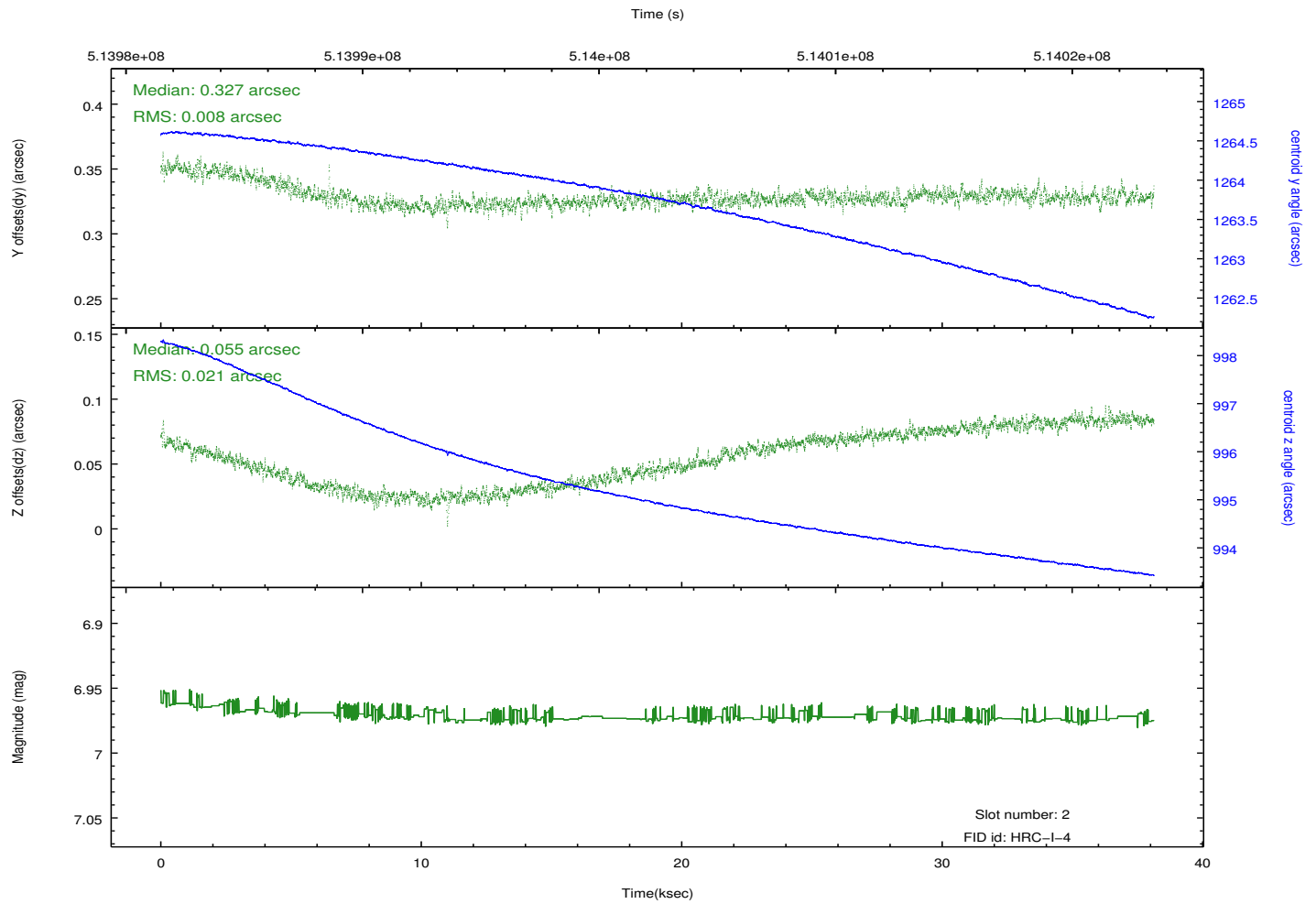
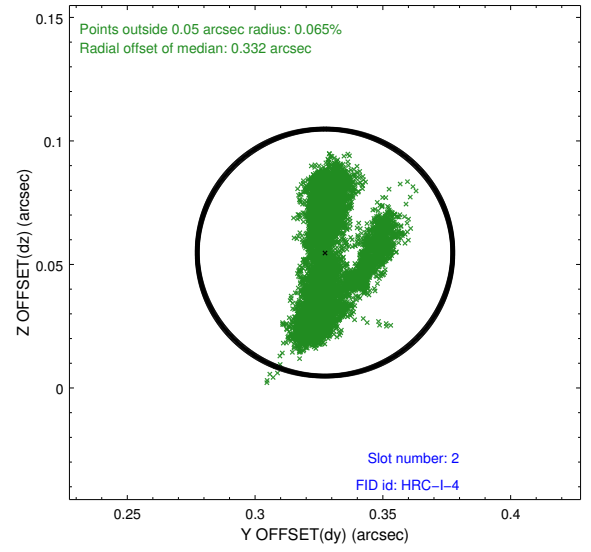
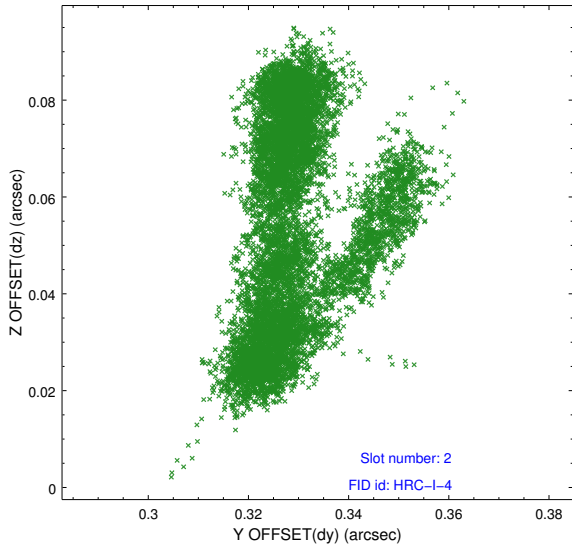
2.5.1 Slot 0



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	38.129233353436

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.