

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5101 - L2 Version 5
Chandra X-Ray Center

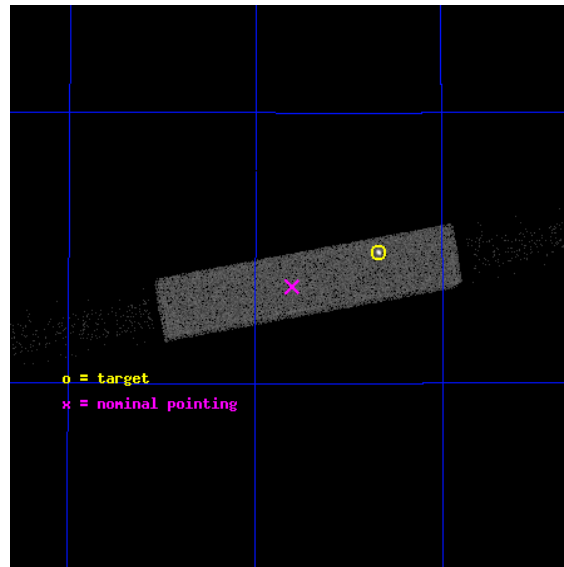
L2 Processing Date : Dec 11 2012

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1 Front

seq_num	290374	Sequence number
obs_id	5101	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.40261754683	Nominal RA [deg]
dec_nom	45.679108924277	Nominal Dec [deg]
roll_nom	349.50247514796	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1109.0500485003	[s]
livetime	1103.2464473248	Ontime multiplied by DTCOR
l2events	41004	Number of level 2 events

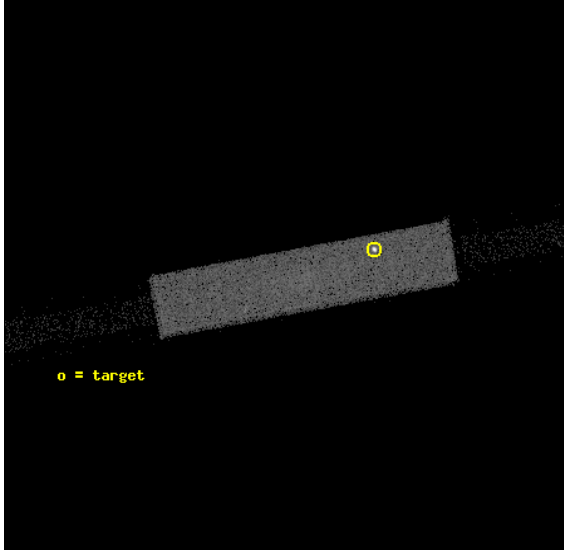


2 OBI

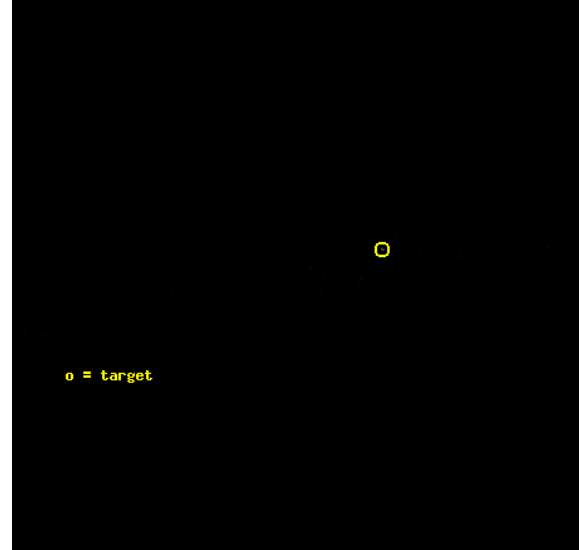
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	946.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1109.0500485003	[s]
caldbver	4.5.4	 	l1events	52245	Number of level 1 events
date	2012-12-11T14:14:38	Date and time of file creation			
revision	5	Processing version of data			

2.1.3 Events

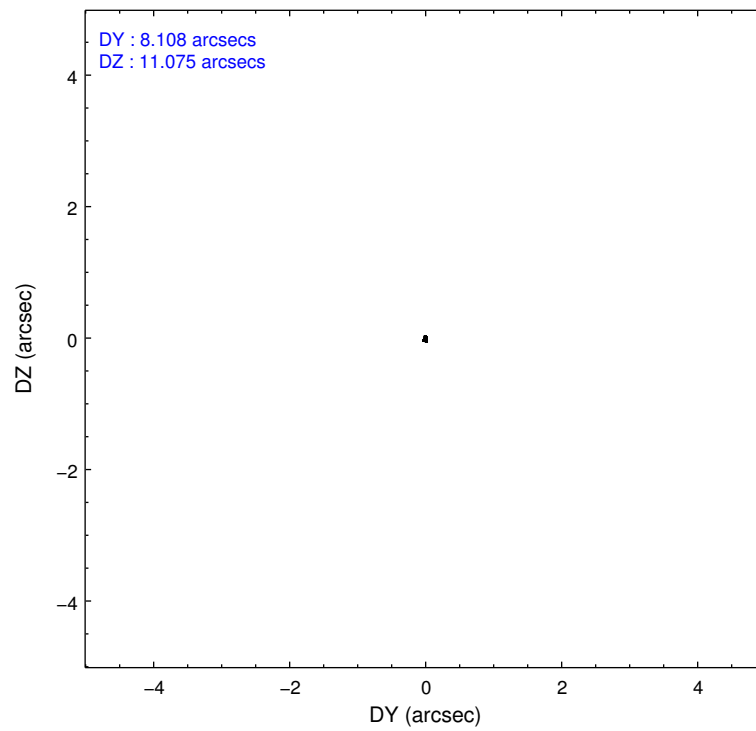
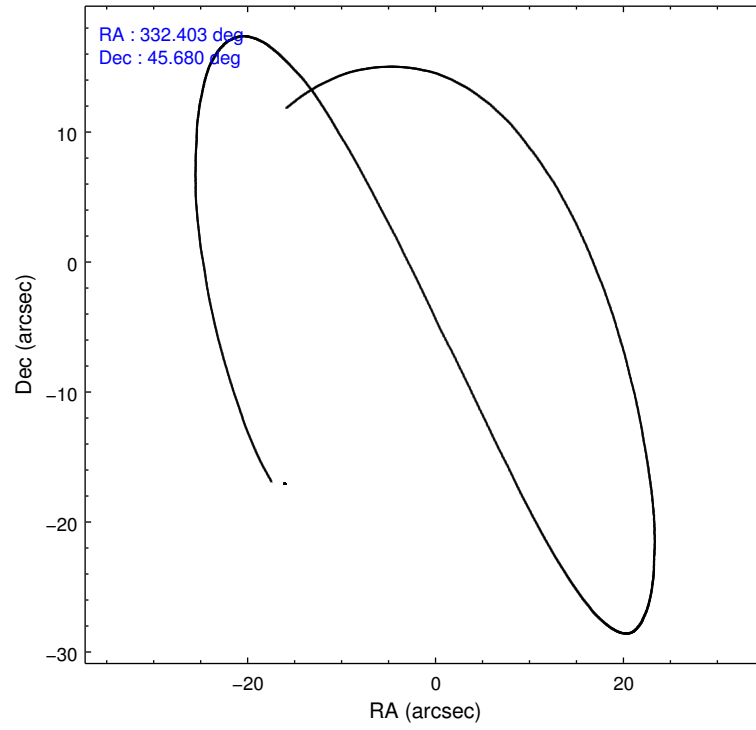
Level 1 Events

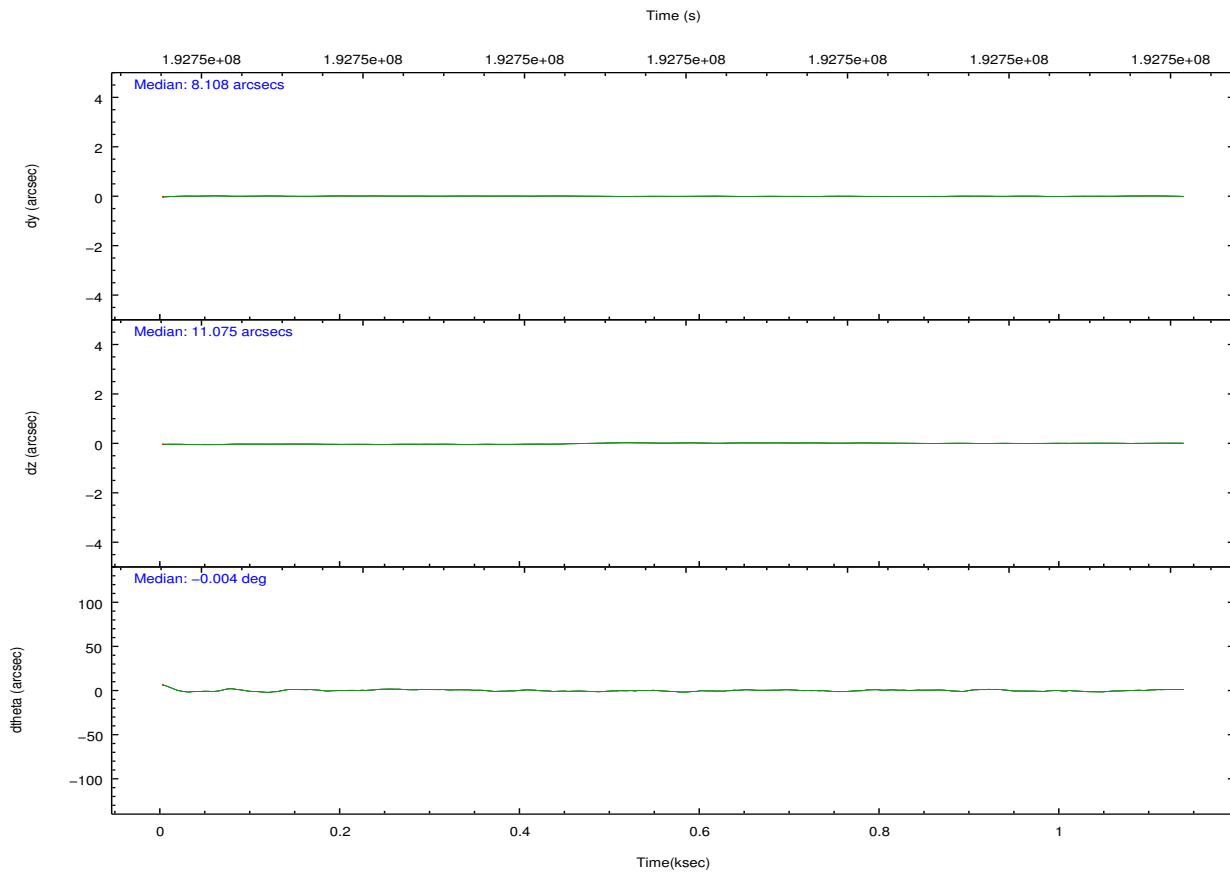
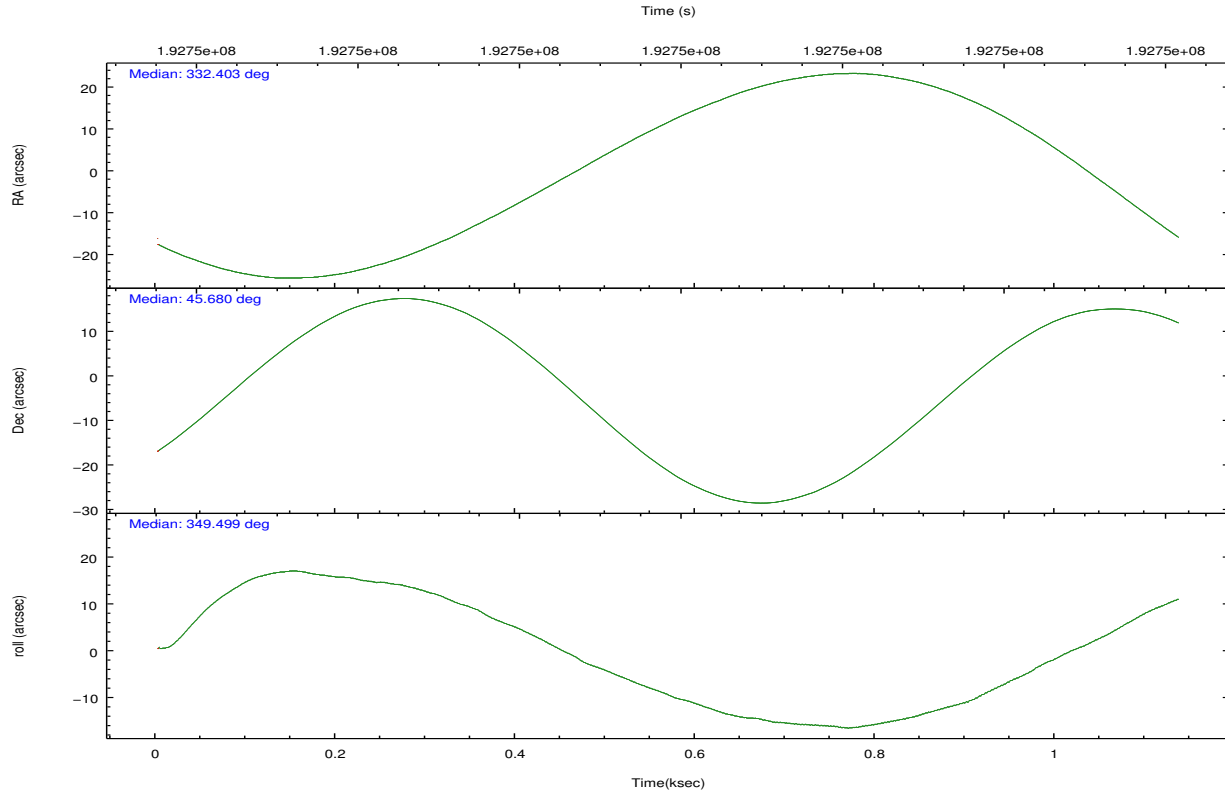
	segment 1	segment 2	segment 3
level 1 events	987	50198	1060
rejected events	349	790	361
rejected %	35%	1%	34%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.4025784630743	332.4026175468325			
[deg] Pointing Dec	45.67911401728163	45.6791089242767			
[deg] Pointing Roll	349.5025031024244	349.5024751479555			
[mm] SIM focus pos	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
[mm] SIM translation stage pos	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	192748818.3105106	192748818.3105106			
Observation start date	2004-02-09T21:22:25	2004-02-09T21:20:18			
[s] Observation end time (MET)	192749956.0605603	192749956.0605603			
Observation end date	2004-02-09T21:38:11	2004-02-09T21:39:16			

2.3 Aspect



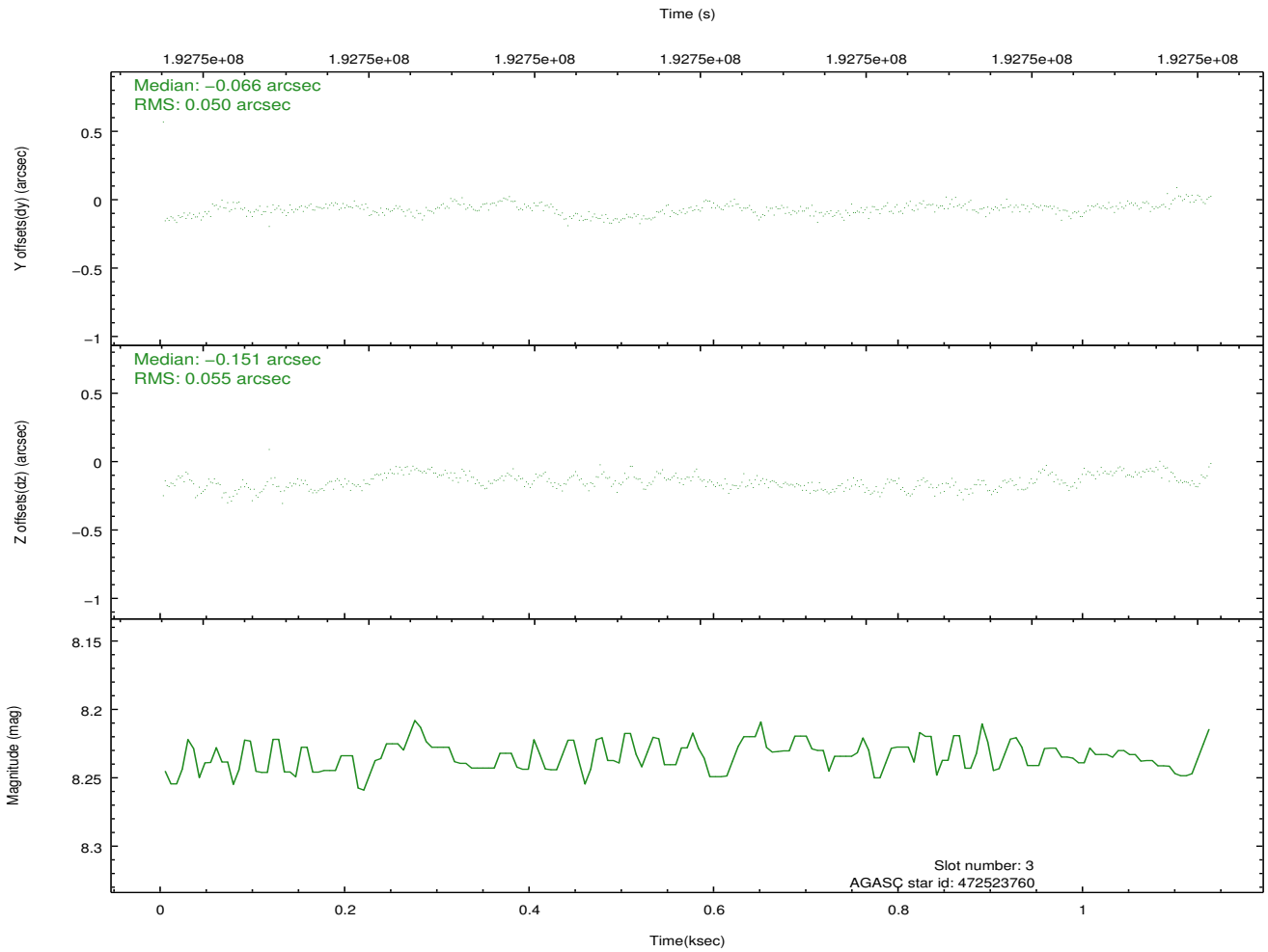
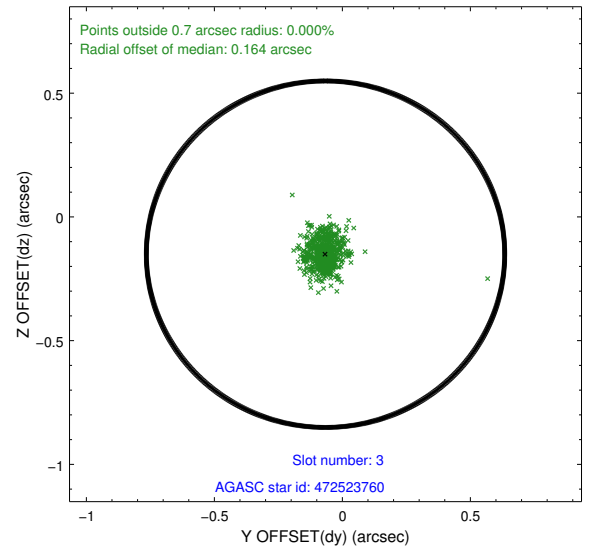
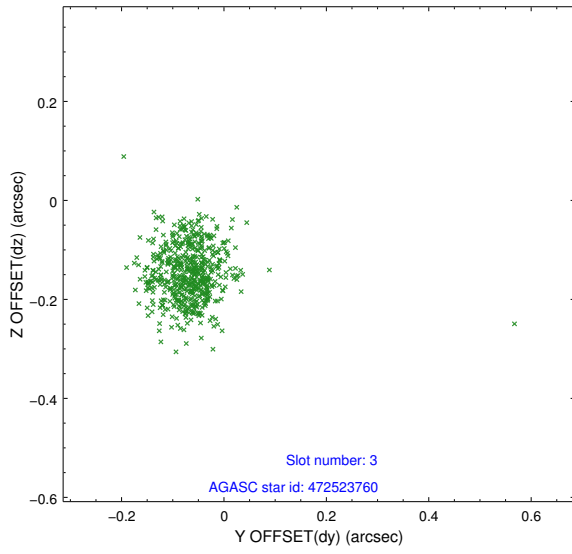


Slot Statistics

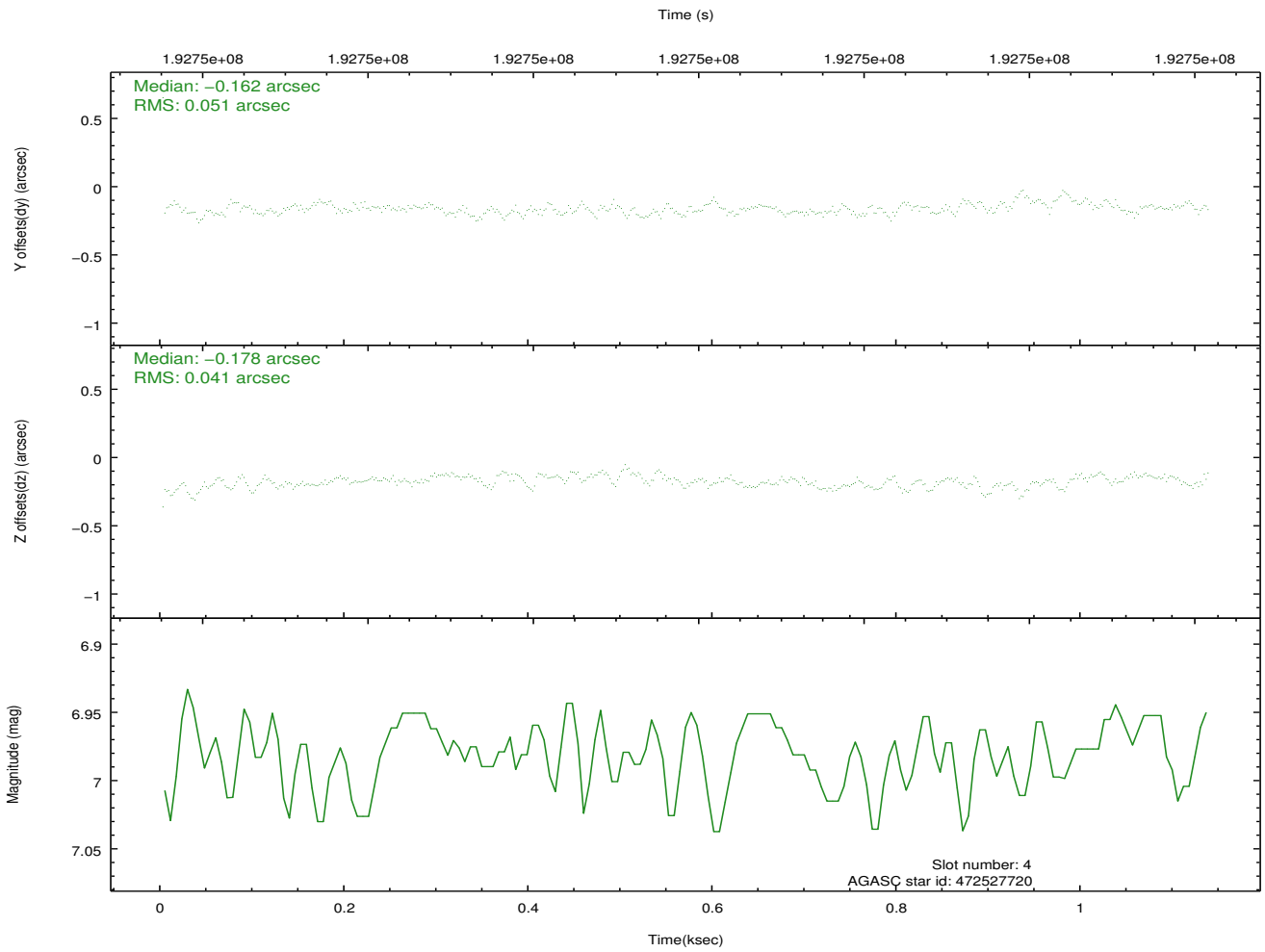
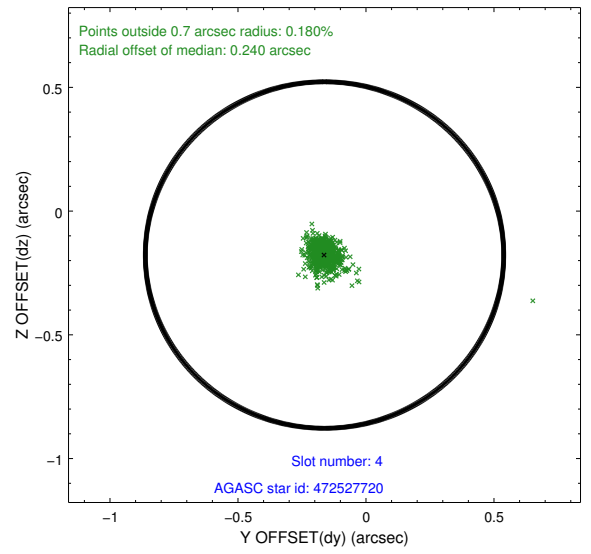
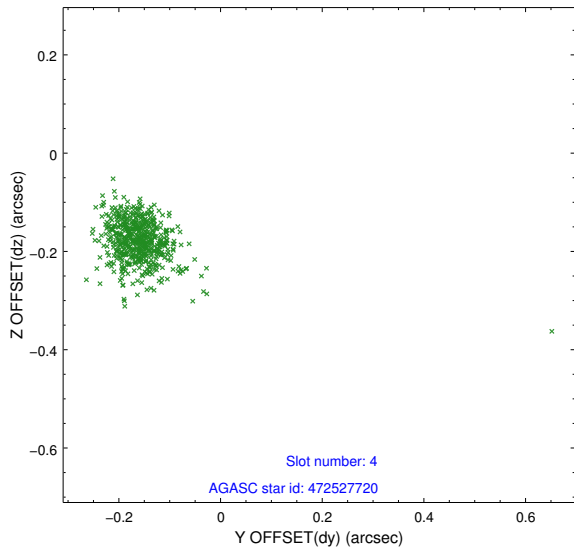
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	278	0.112	-0.130	0.005	0.010	0.000000	0.000000	-1162.29	-459.77
1	FID	HRC-S-2	7.01	278	0.092	-0.144	0.009	0.016	0.000000	0.000000	1233.19	-454.04
2	FID	HRC-S-4	6.99	278	0.199	-0.030	0.008	0.014	0.000000	0.000000	1240.48	570.82
3	GUIDE	472523760	8.23	555	-0.066	-0.151	0.074	0.116	331.645363	45.403260	-1614.61	-1262.45
4	GUIDE	472527720	6.98	555	-0.162	-0.178	0.057	0.100	331.460205	45.112509	-1898.68	-2376.87
5	GUIDE	472533912	9.18	555	0.007	0.039	0.130	0.212	331.791136	46.368695	-1866.53	2219.48
6	GUIDE	472659832	9.48	555	-0.015	0.036	0.144	0.214	332.780399	46.098139	733.19	1718.28
7	GUIDE	472660976	8.61	554	0.249	0.233	0.069	0.117	333.433329	46.196713	2268.23	2378.83

2.4 Star Slots

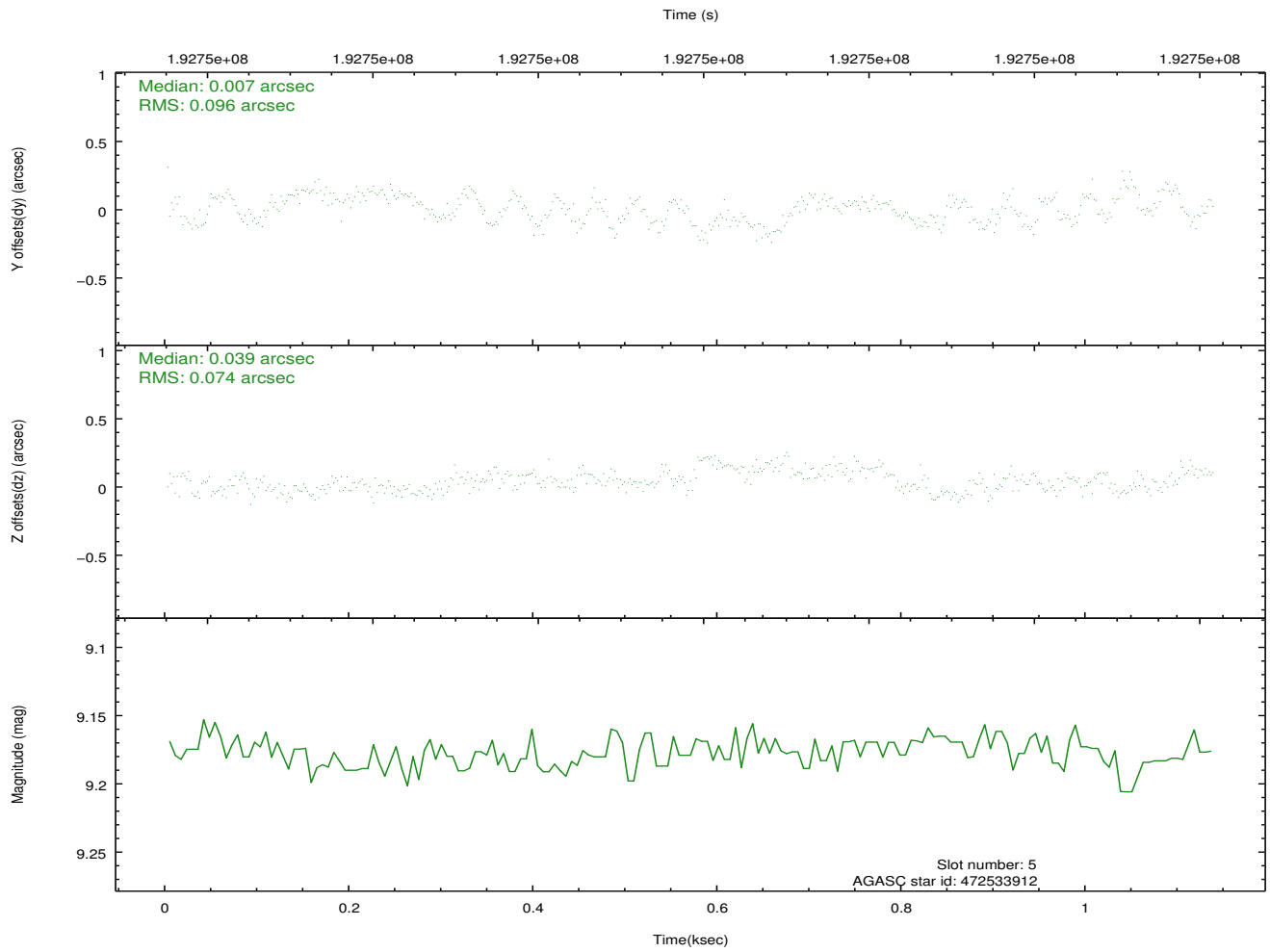
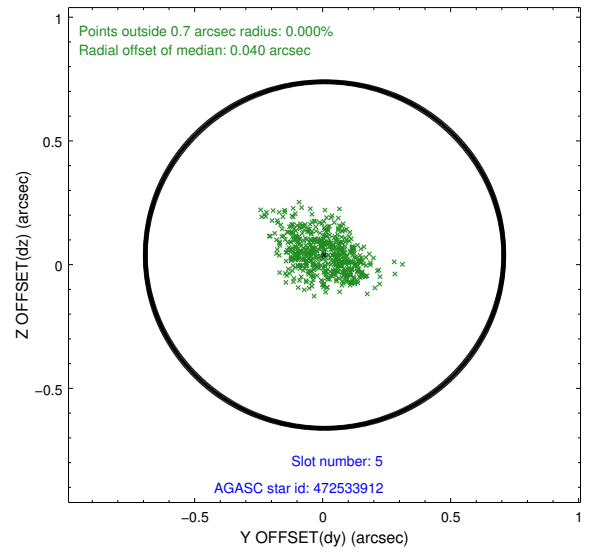
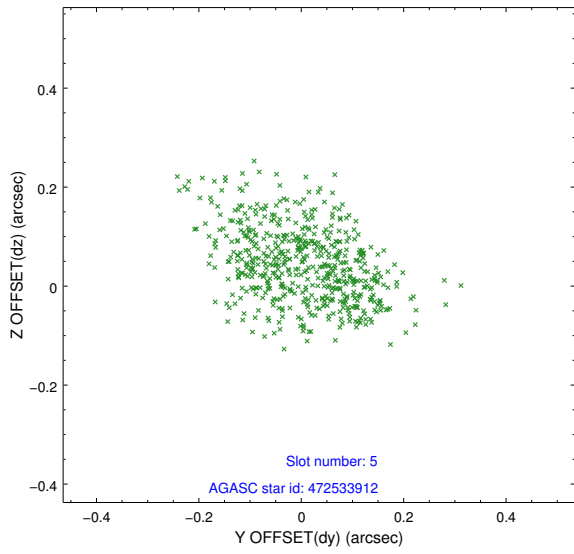
2.4.1 Slot 3



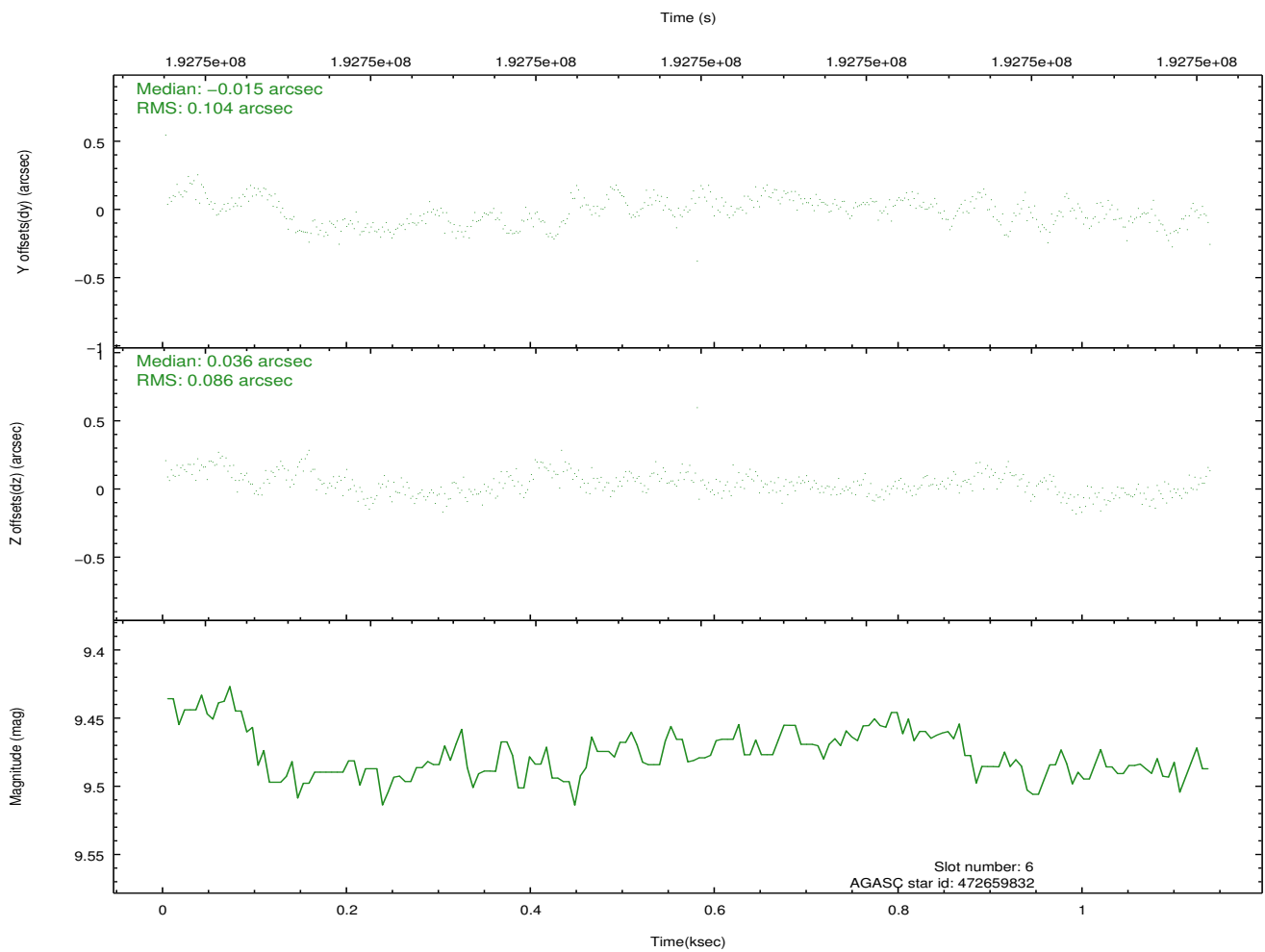
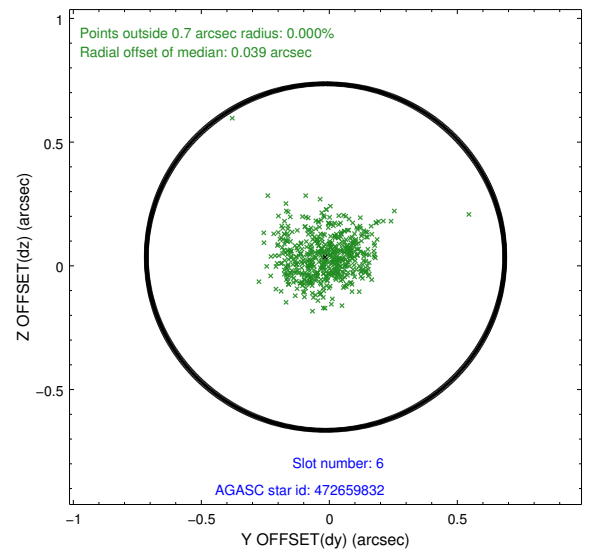
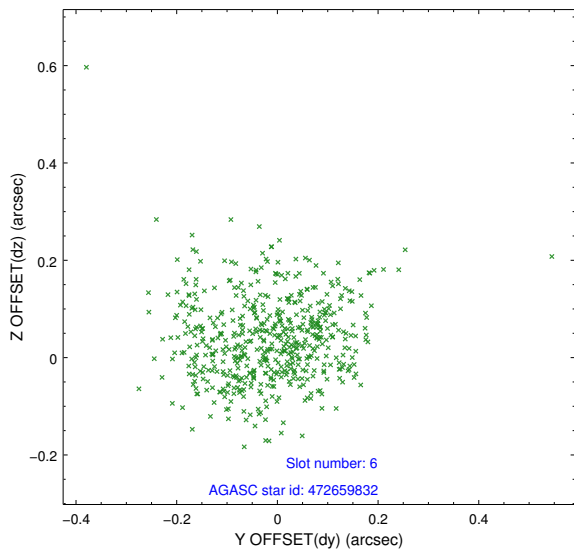
2.4.2 Slot 4



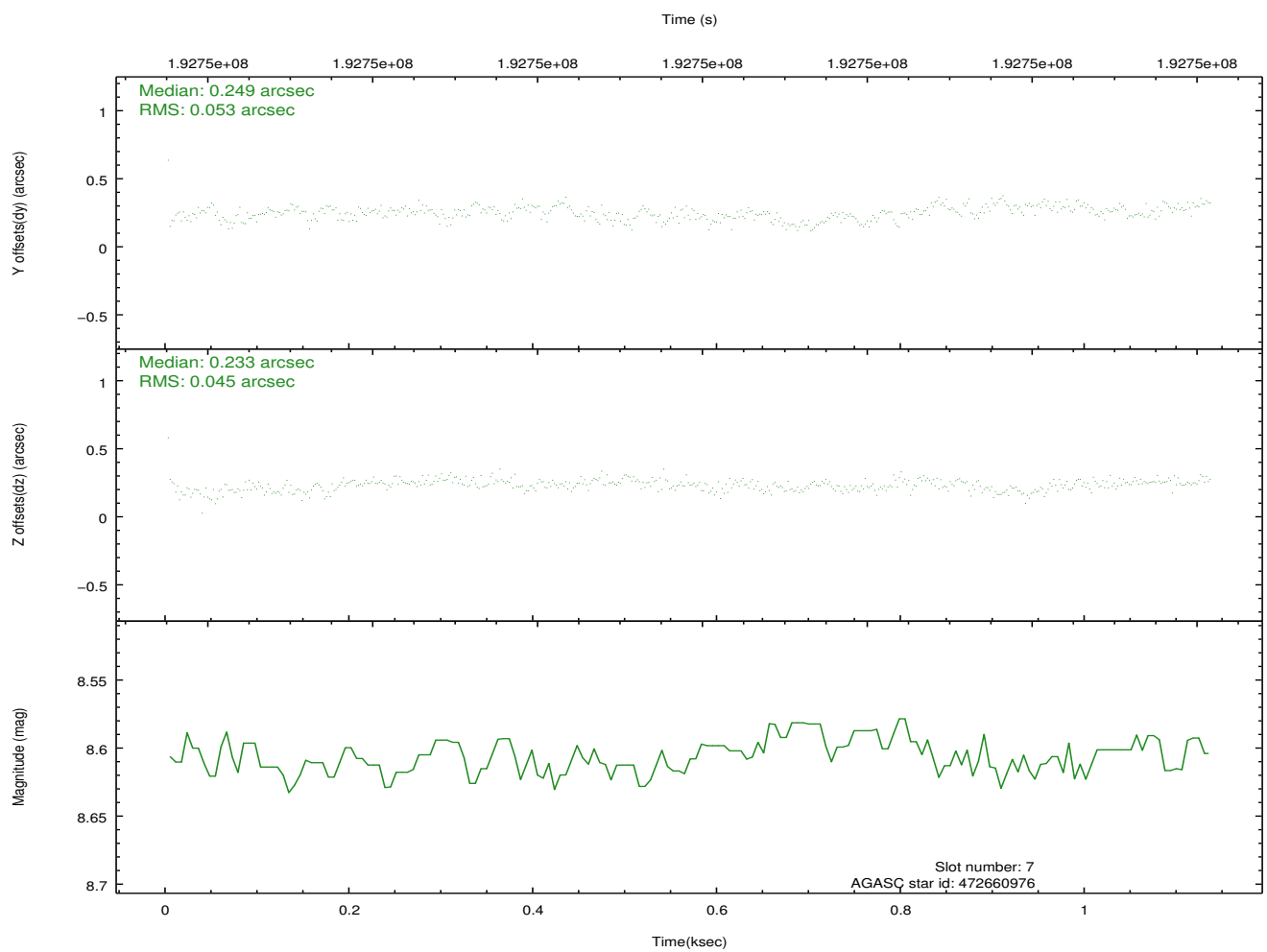
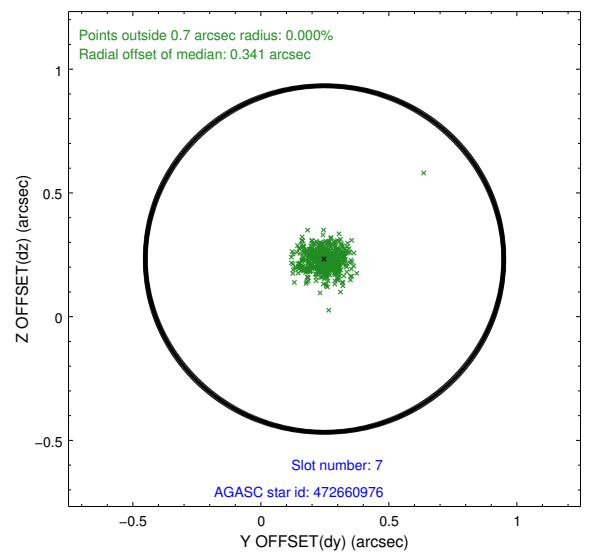
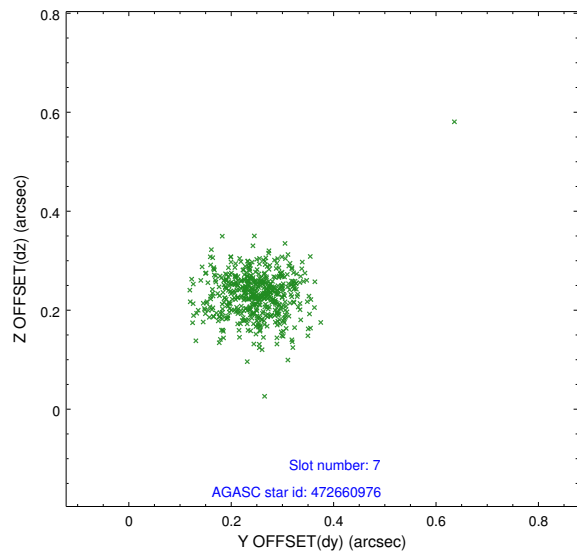
2.4.3 Slot 5



2.4.4 Slot 6

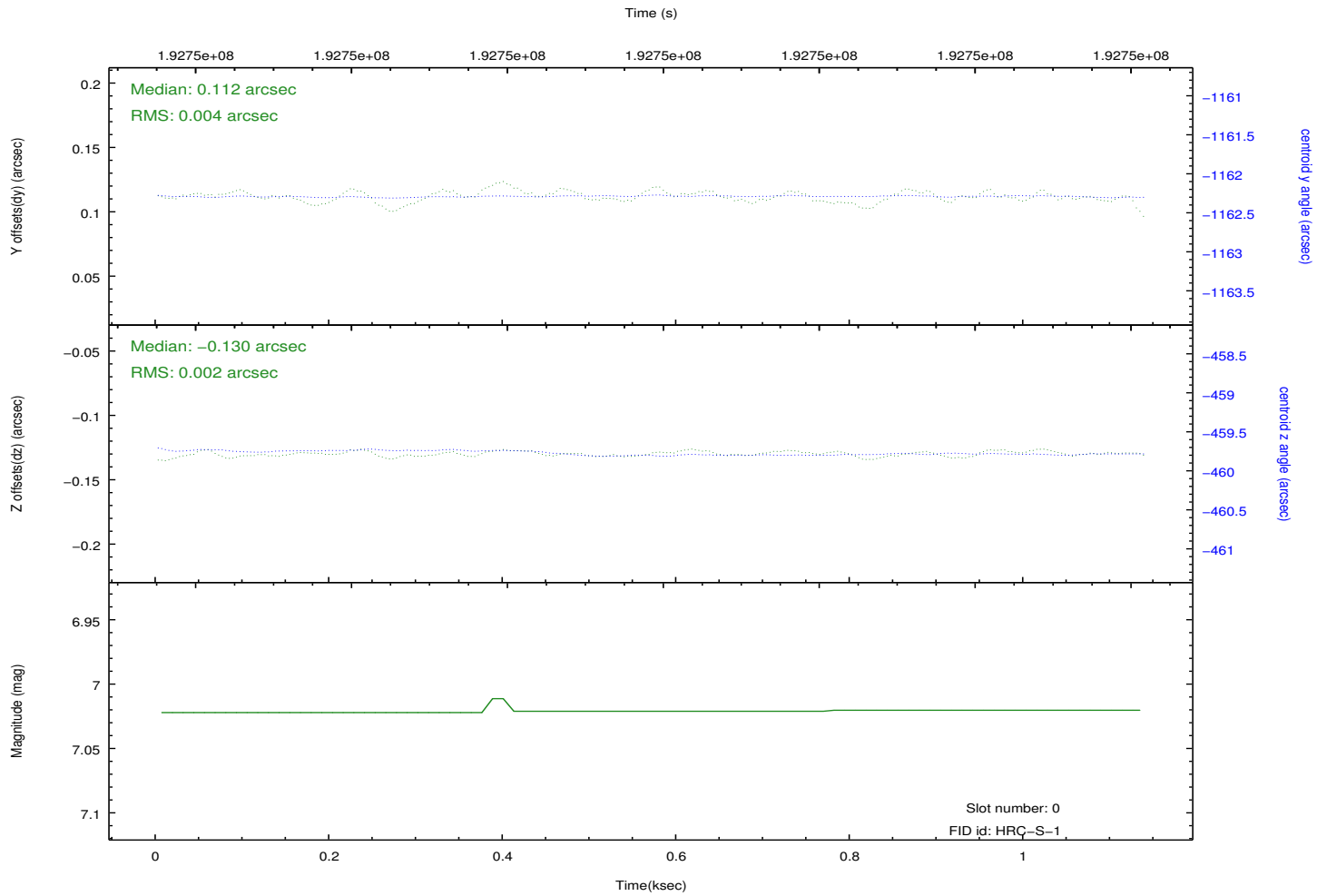
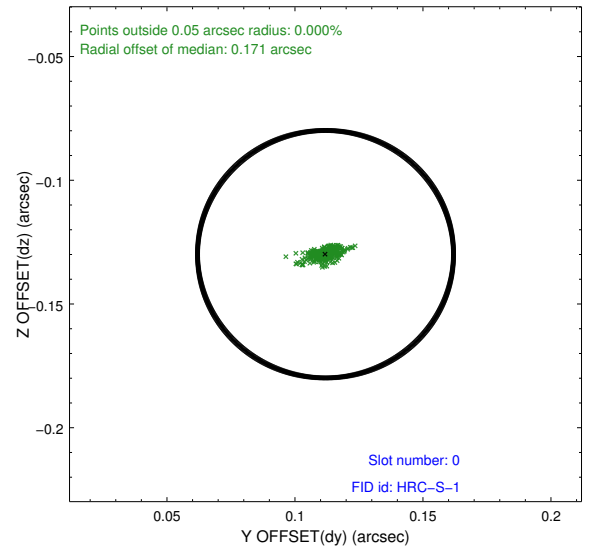
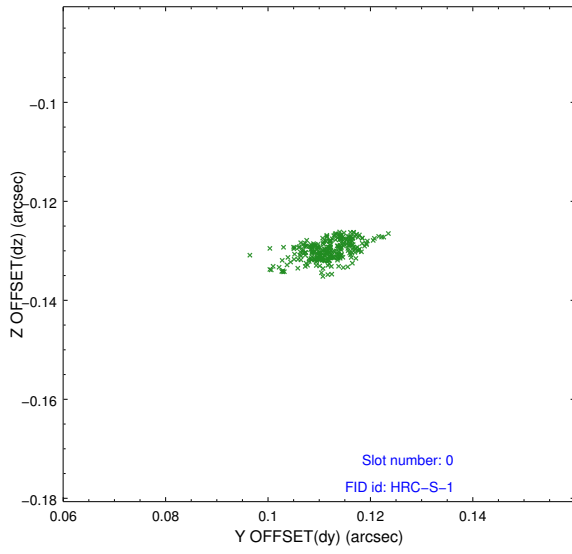


2.4.5 Slot 7

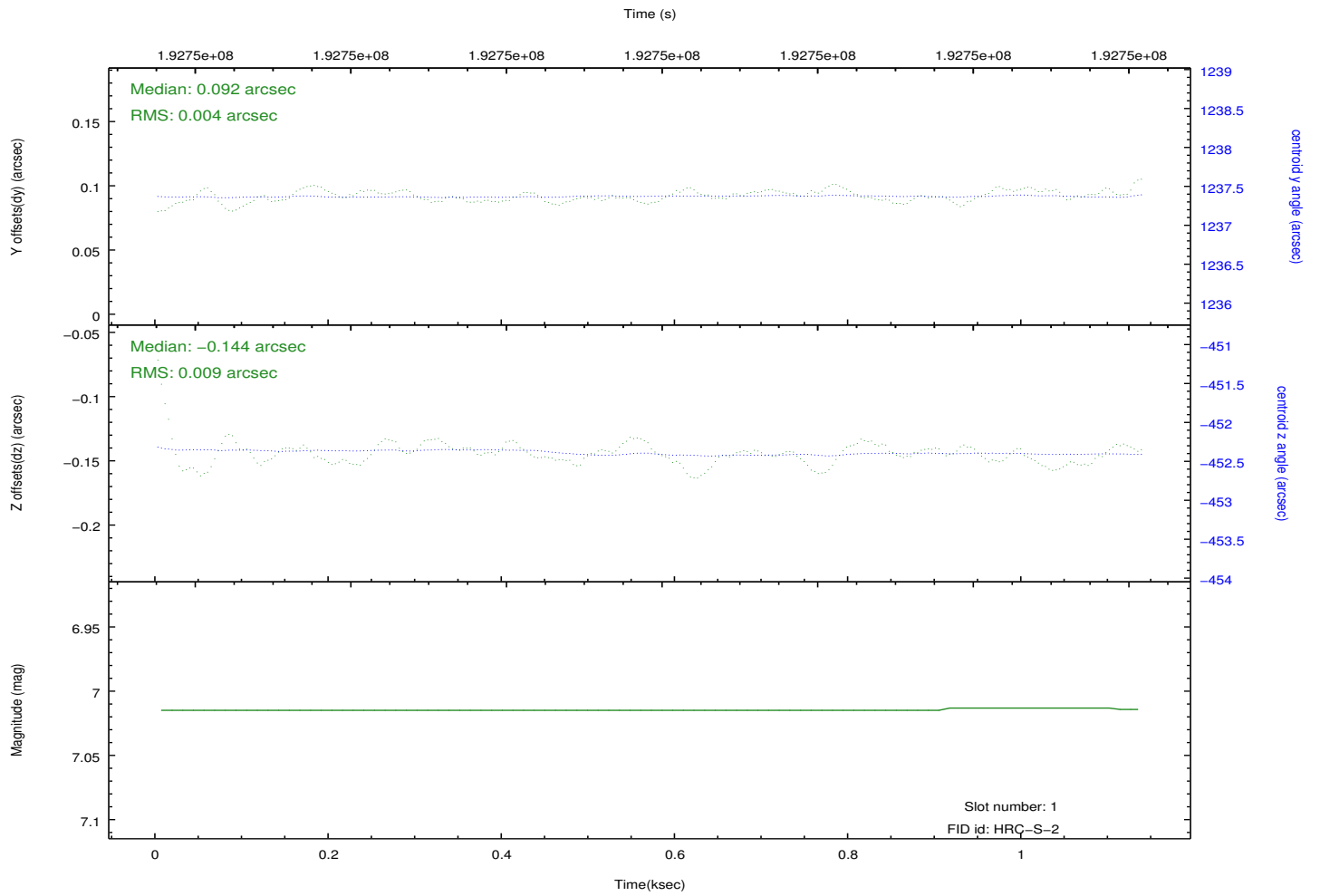
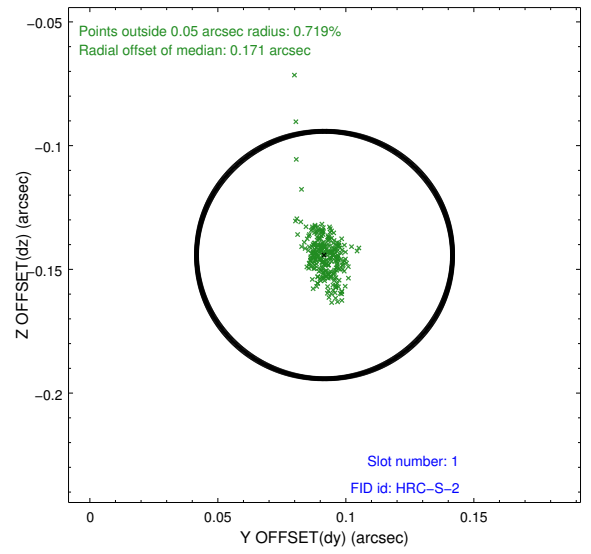
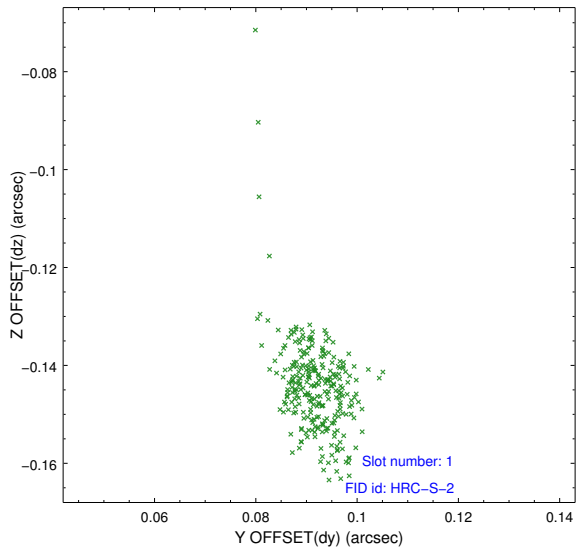


2.5 FID Slots

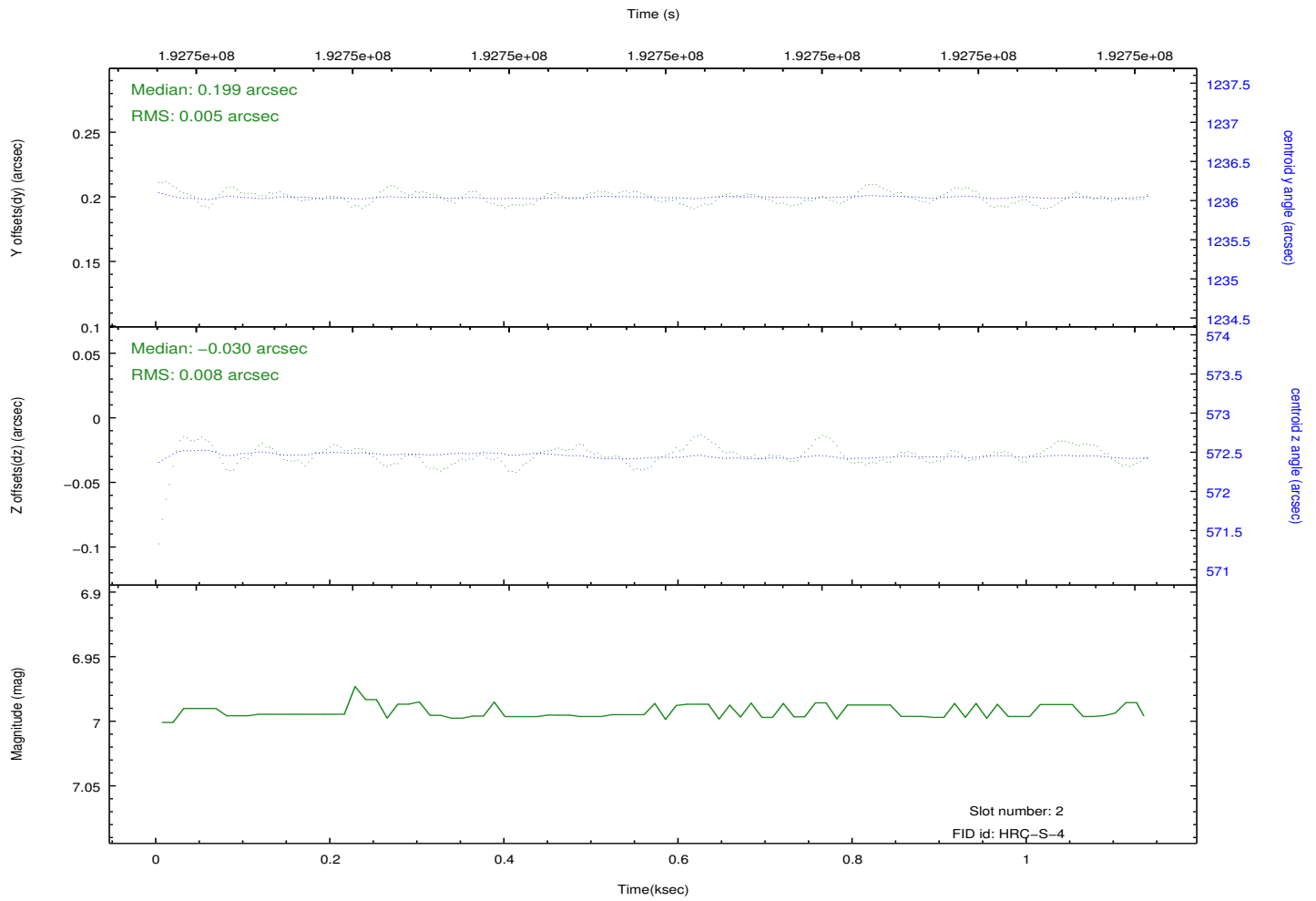
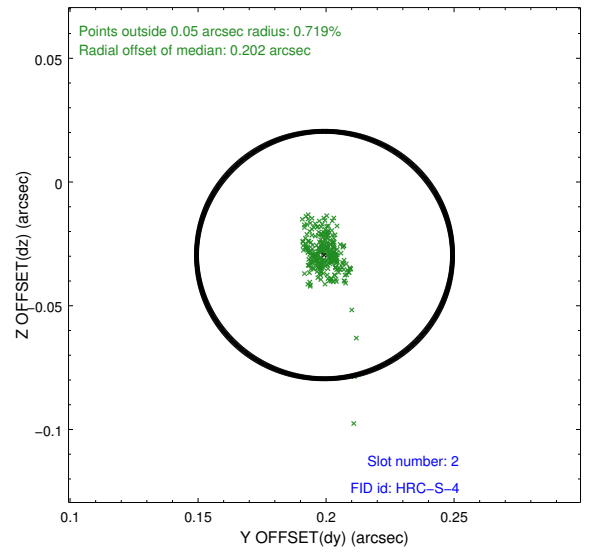
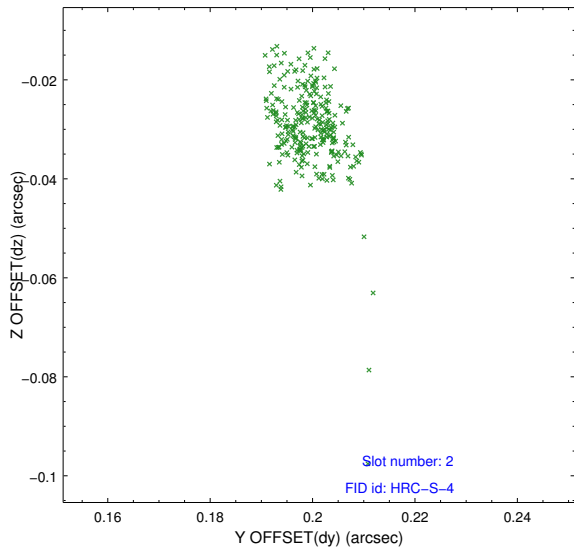
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.111

A.2 Comments

Charge time for this ObsId remains at previous value of 1.111 ks,
although with the current processing the charge time would be 1.109 ks.

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Target is off-axis for calibration purposes.