

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15462 - L2 Version 2
Chandra X-Ray Center

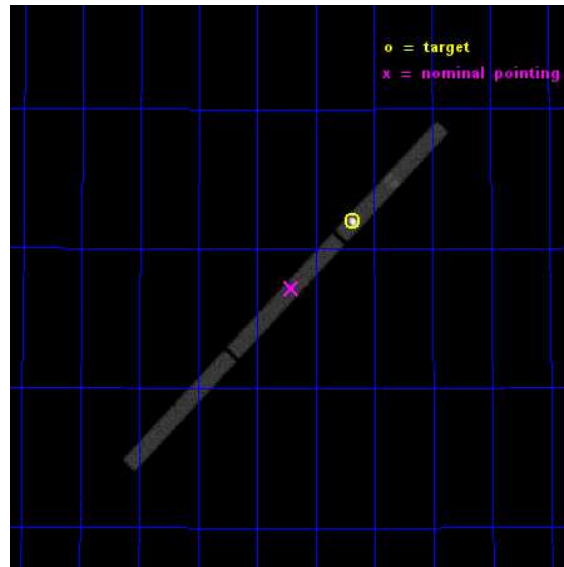
L2 Processing Date : Dec 1 2014

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1 Front

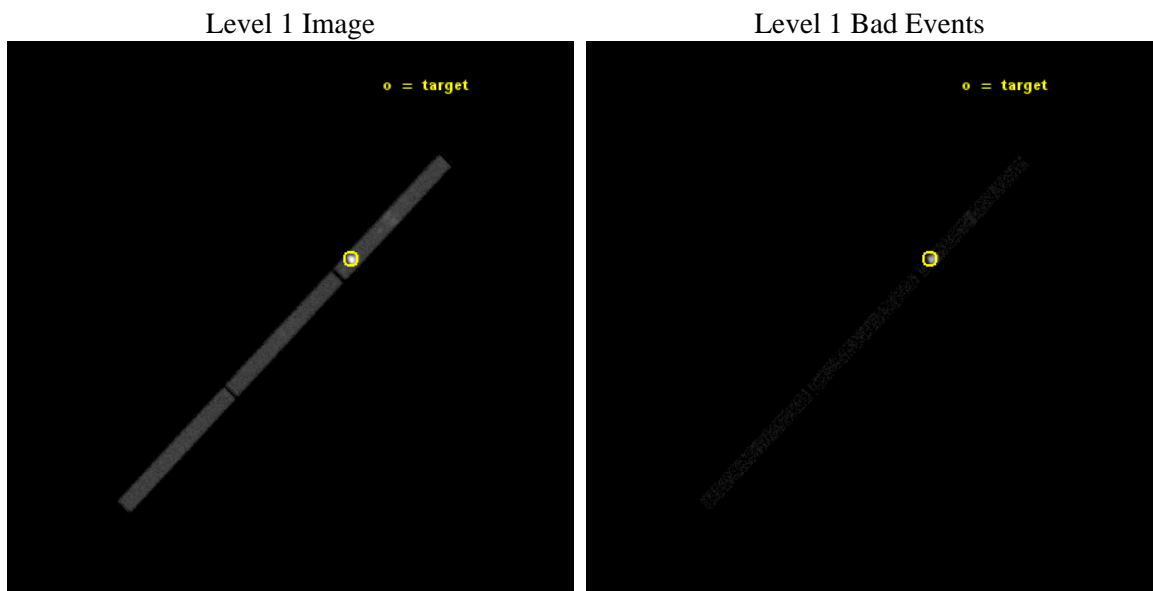
seq_num	291141	Sequence number
obs_id	15462	Observation id
title	AO-14 Calibration Observations of HZ43 to measure the gain accross the HRC-S plate gaps	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.35296755599	Nominal RA [deg]
dec_nom	28.8586883505	Nominal Dec [deg]
roll_nom	133.91386340012	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1284.5813193321	[s]
livetime	917.43027788482	Ontime multiplied by DTCOR
l2events	215738	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	1100.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1284.5813193321	[s]
caldbver	4.6.4	 	l1events	296730	Number of level 1 events
date	2014-12-02T02:24:18	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

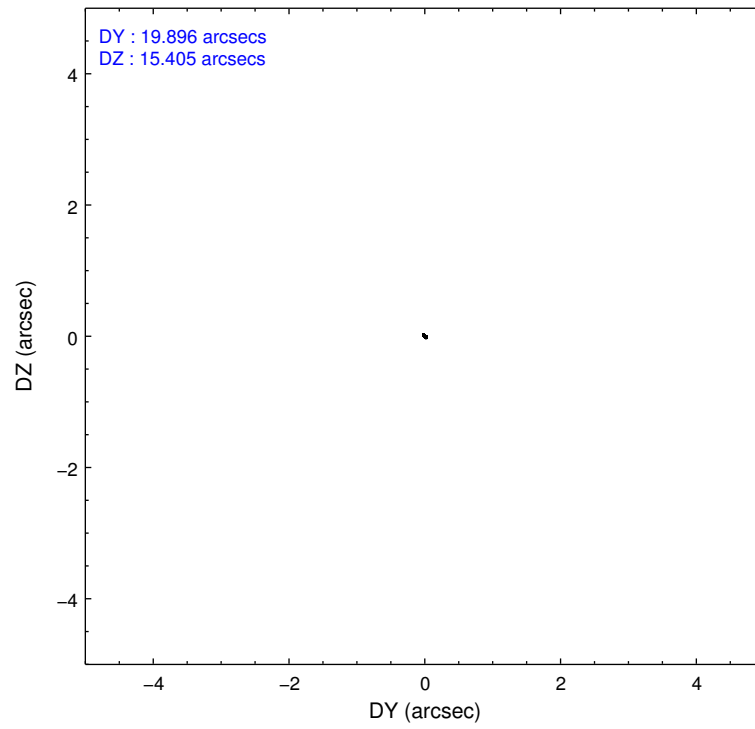
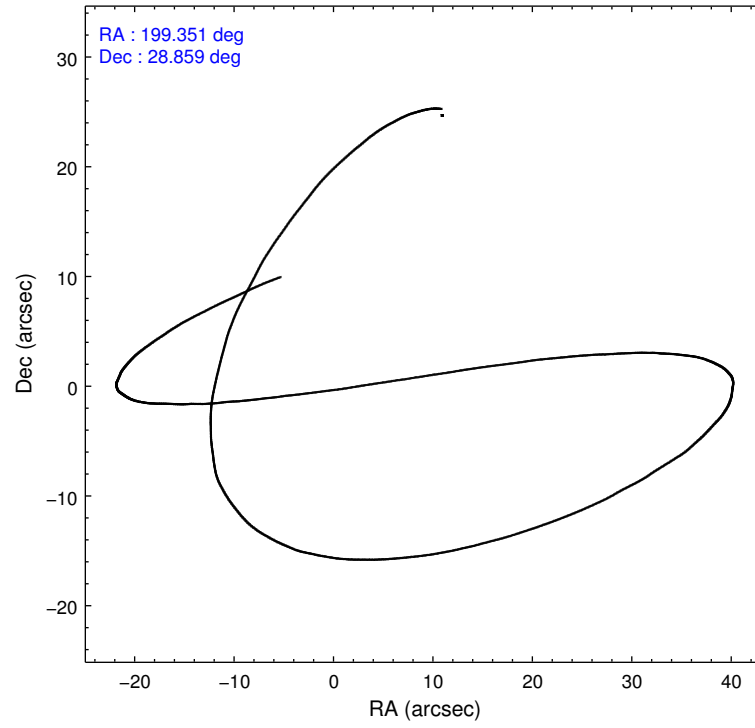
	segment 1	segment 2	segment 3
level 1 events	31961	31140	233629
rejected events	6485	6235	47056
rejected %	20%	20%	20%

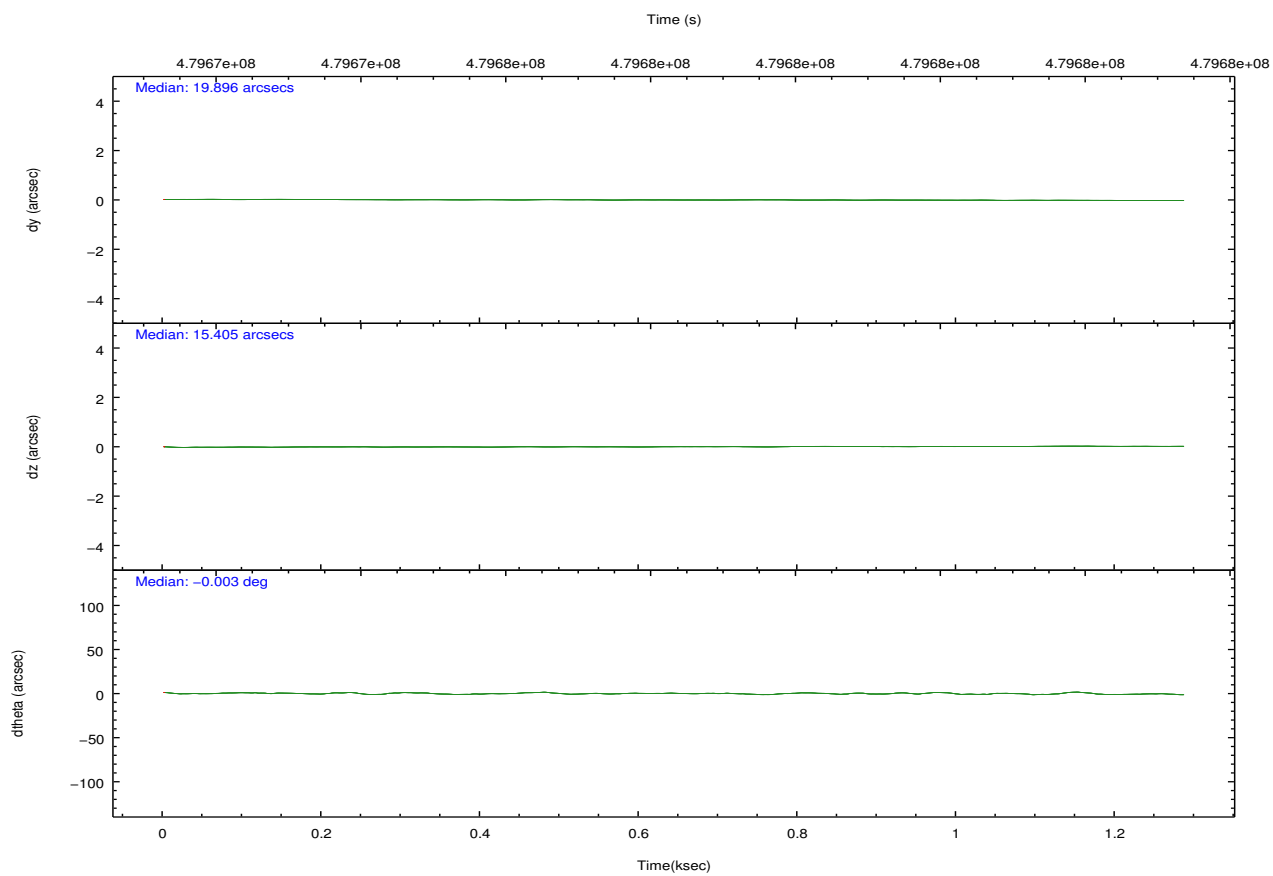
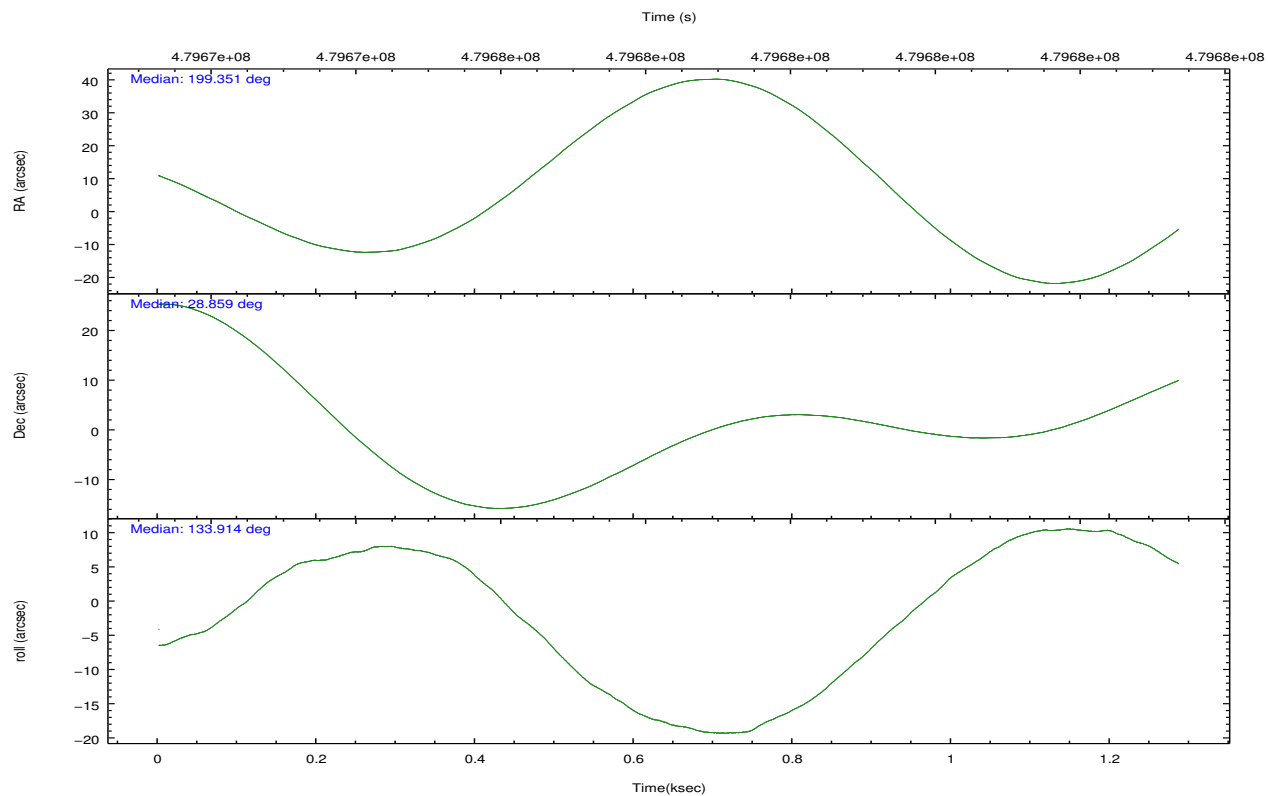
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	199.386167	199.3529675559859
[deg] Pointing Dec	28.852058	28.85868835050022
[deg] Pointing Roll	133.830544	133.913863400121
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	479674779.184000	479674403.25586
Observation start date	2013-03-14T18:58:32	2013-03-14T18:53:23
[s] Observation end time (MET)	479675879.184000	479676013.53095
Observation end date	2013-03-14T19:16:52	2013-03-14T19:20:13

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



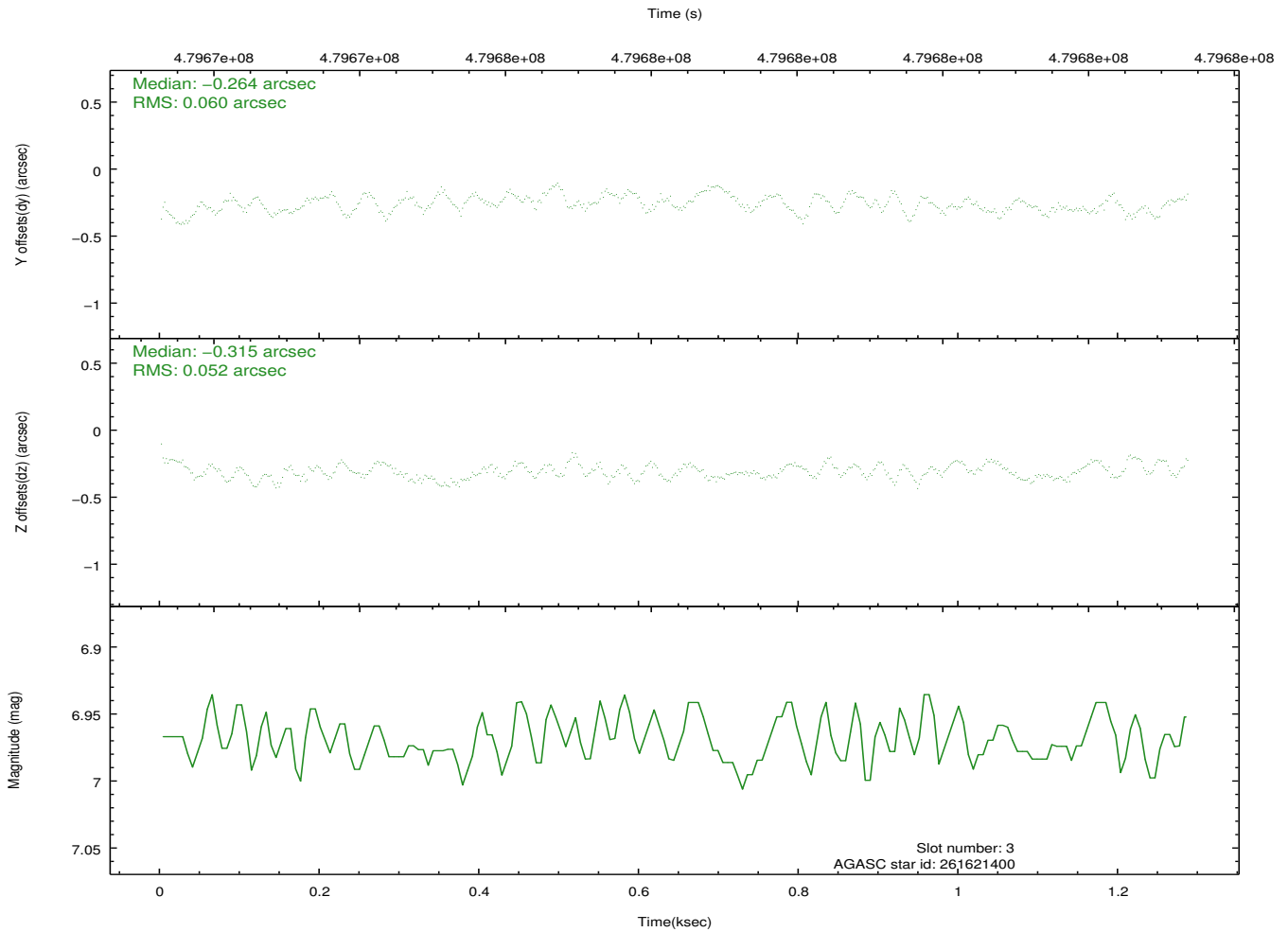
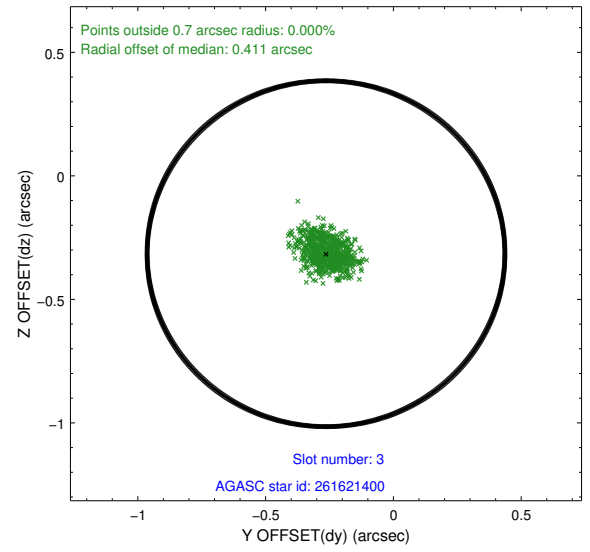
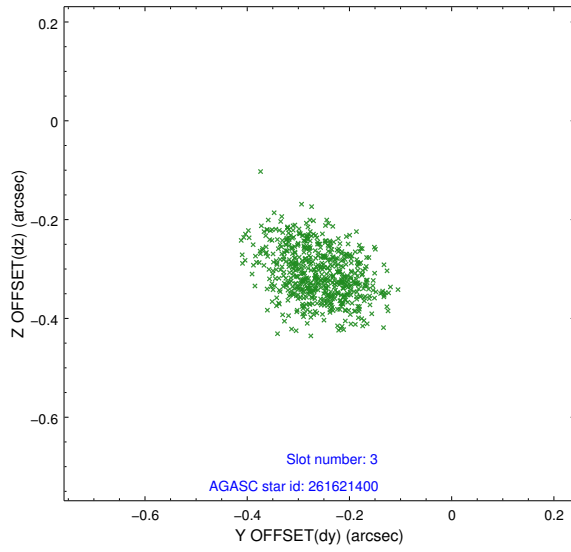


Slot Statistics

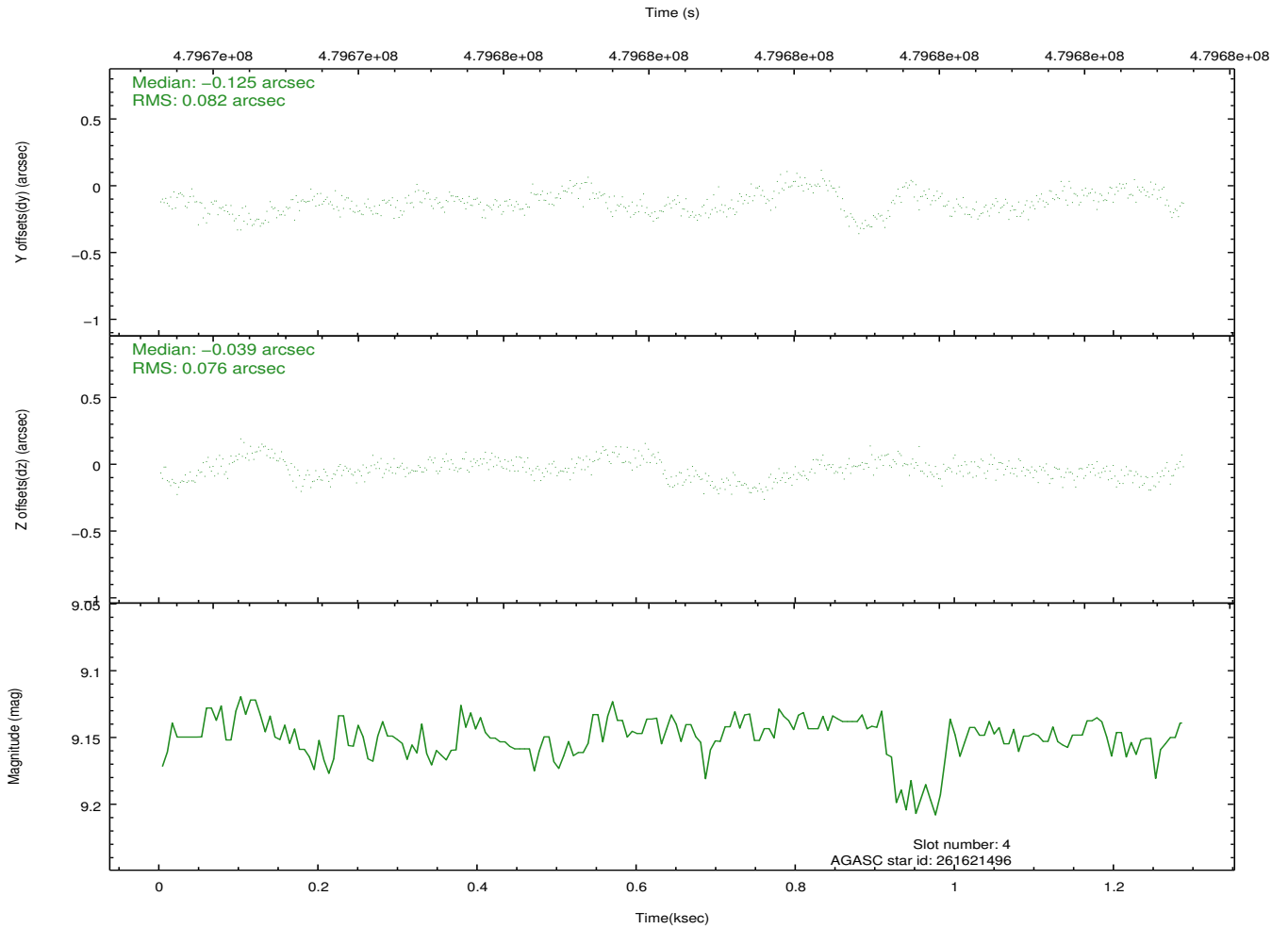
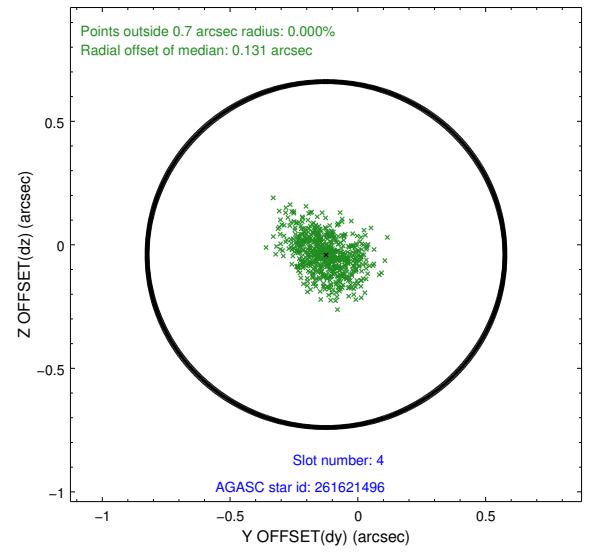
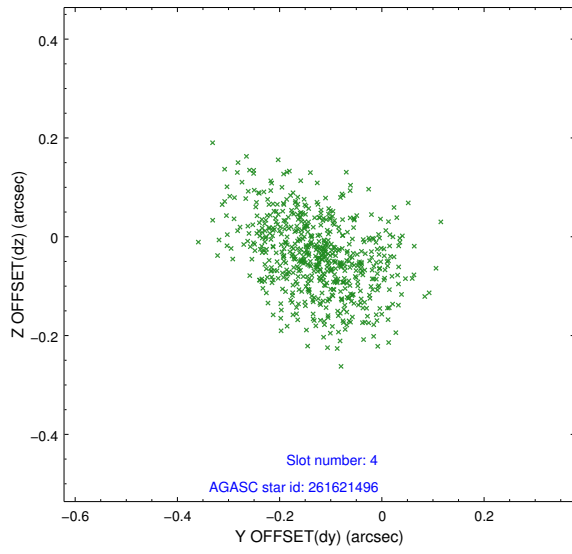
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.98	314	0.018	-0.203	0.007	0.010	0.000000	0.000000	-1174.49	-464.31
1	FID		HRC-S-2	6.96	314	0.267	-0.111	0.005	0.008	0.000000	0.000000	1221.67	-458.37
2	FID		HRC-S-3	7.01	314	0.105	0.012	0.007	0.010	0.000000	0.000000	-1173.22	563.96
3	GUIDE	used	261621400	6.97	628	-0.264	-0.315	0.085	0.134	198.901600	28.741982	772.76	1373.16
4	GUIDE	used	261621496	9.15	628	-0.125	-0.039	0.122	0.191	199.518209	28.144598	-2129.29	1460.97
5	GUIDE	used	261624456	7.32	628	0.041	0.142	0.084	0.147	199.758056	28.567828	-1555.70	-141.22
6	GUIDE	used	261629720	8.11	628	0.073	0.236	0.087	0.133	199.236176	29.044452	821.42	-141.76
7	GUIDE	used	261629968	9.23	626	0.269	-0.037	0.101	0.172	199.493239	28.065400	-2279.81	1713.11

2.4 Star Slots

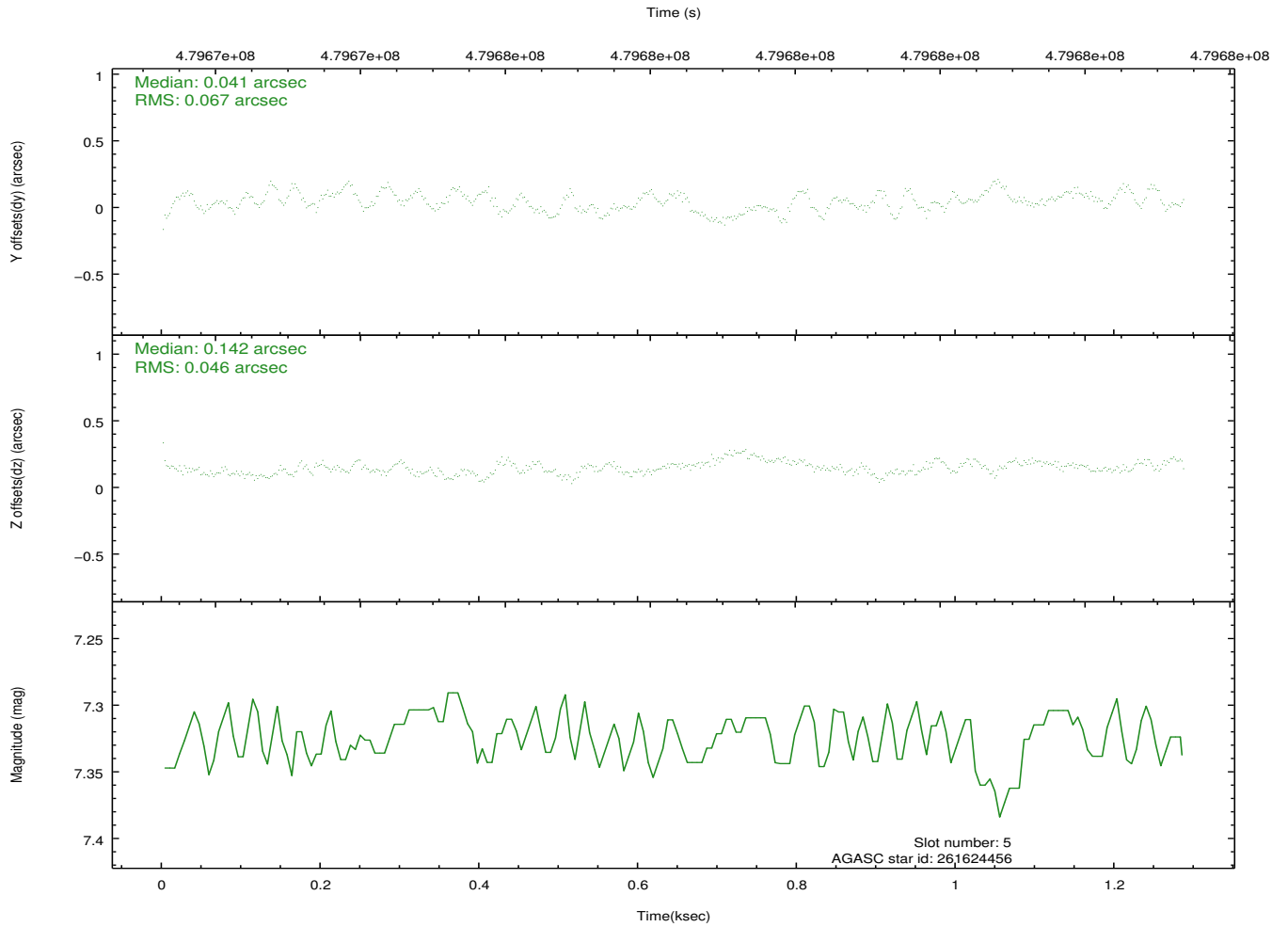
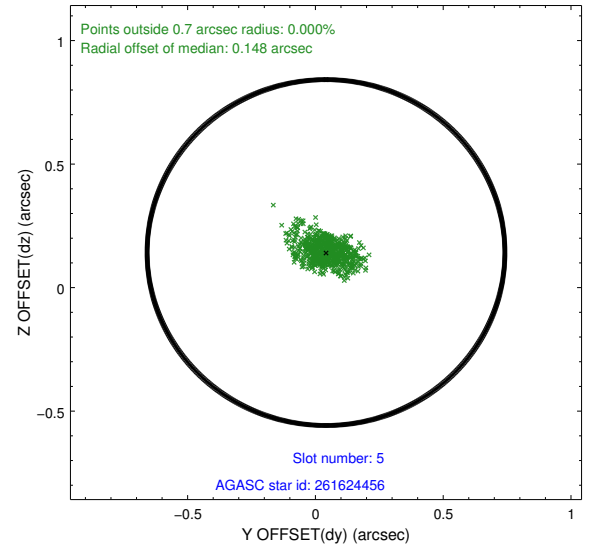
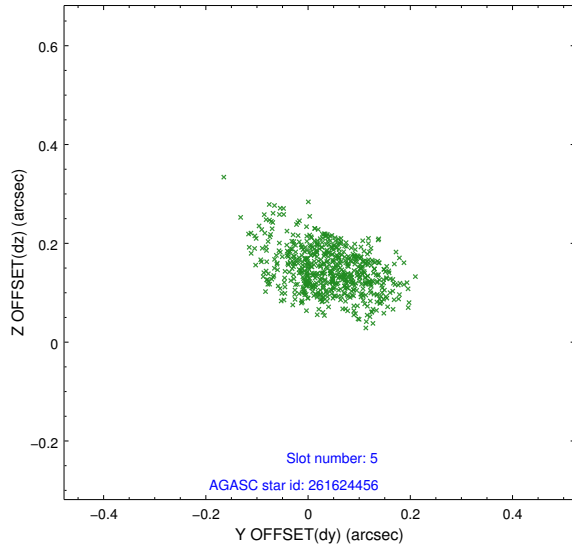
2.4.1 Slot 3



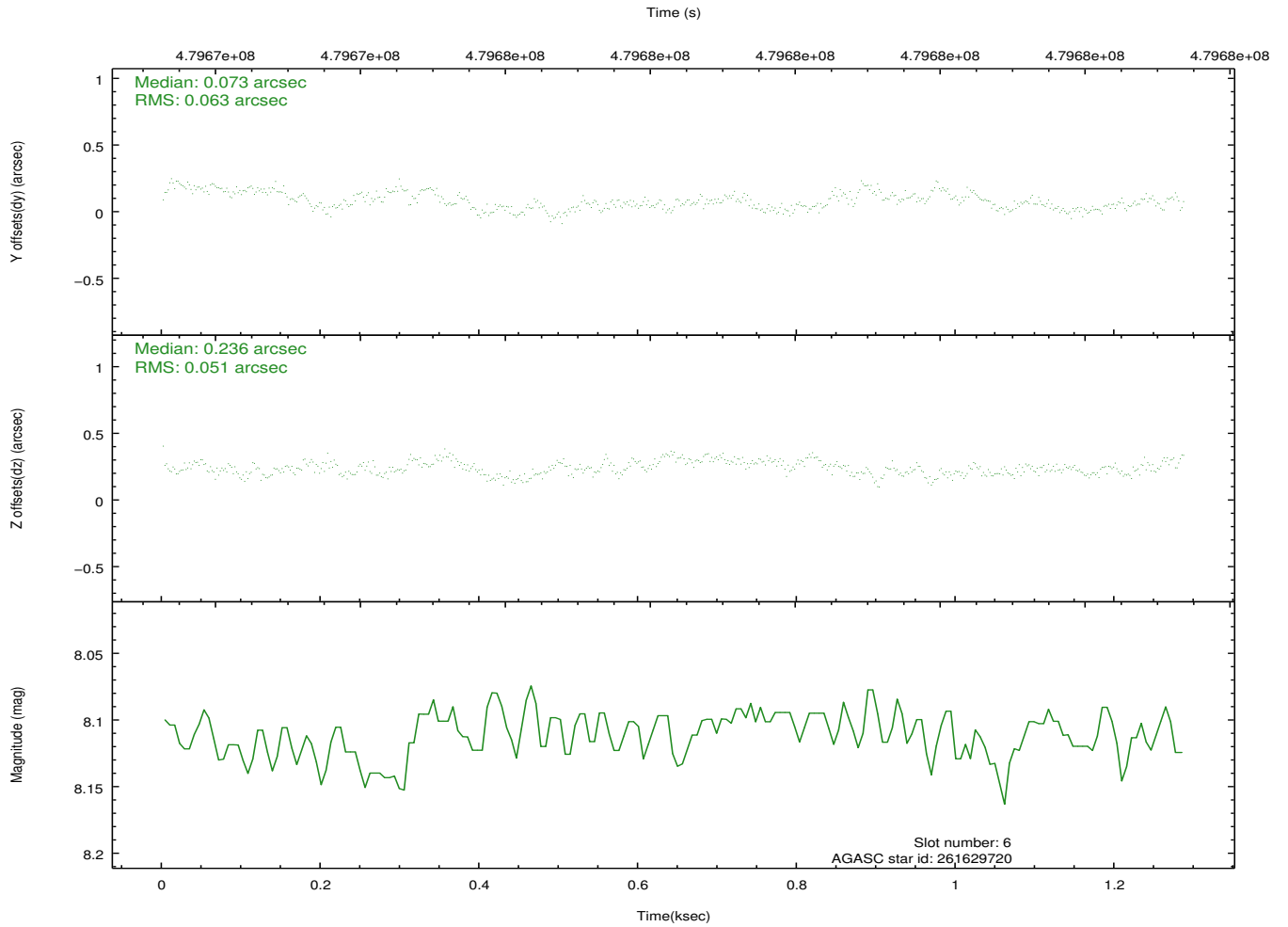
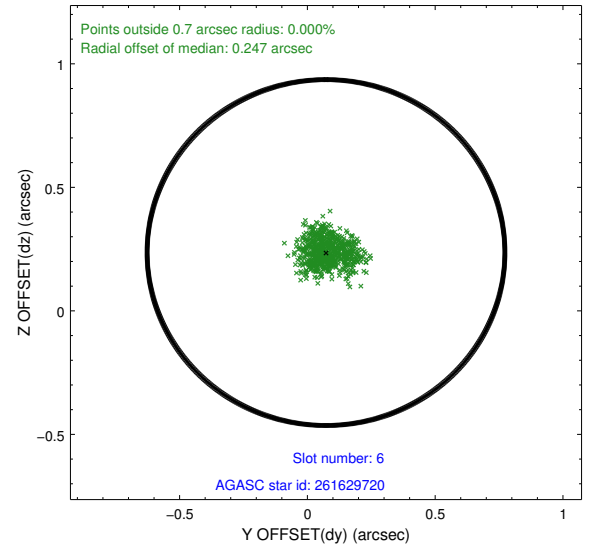
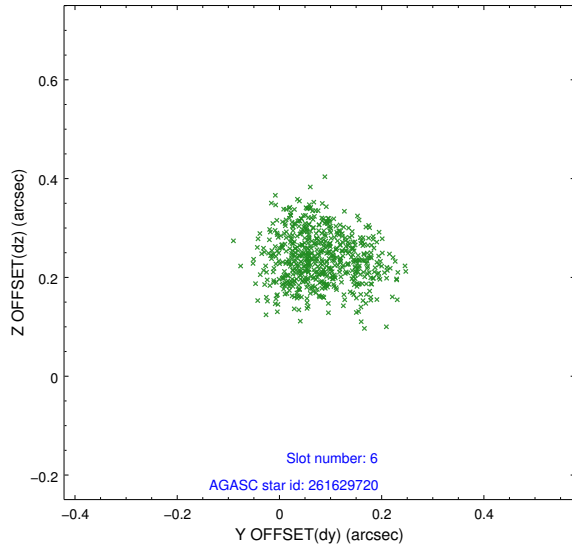
2.4.2 Slot 4



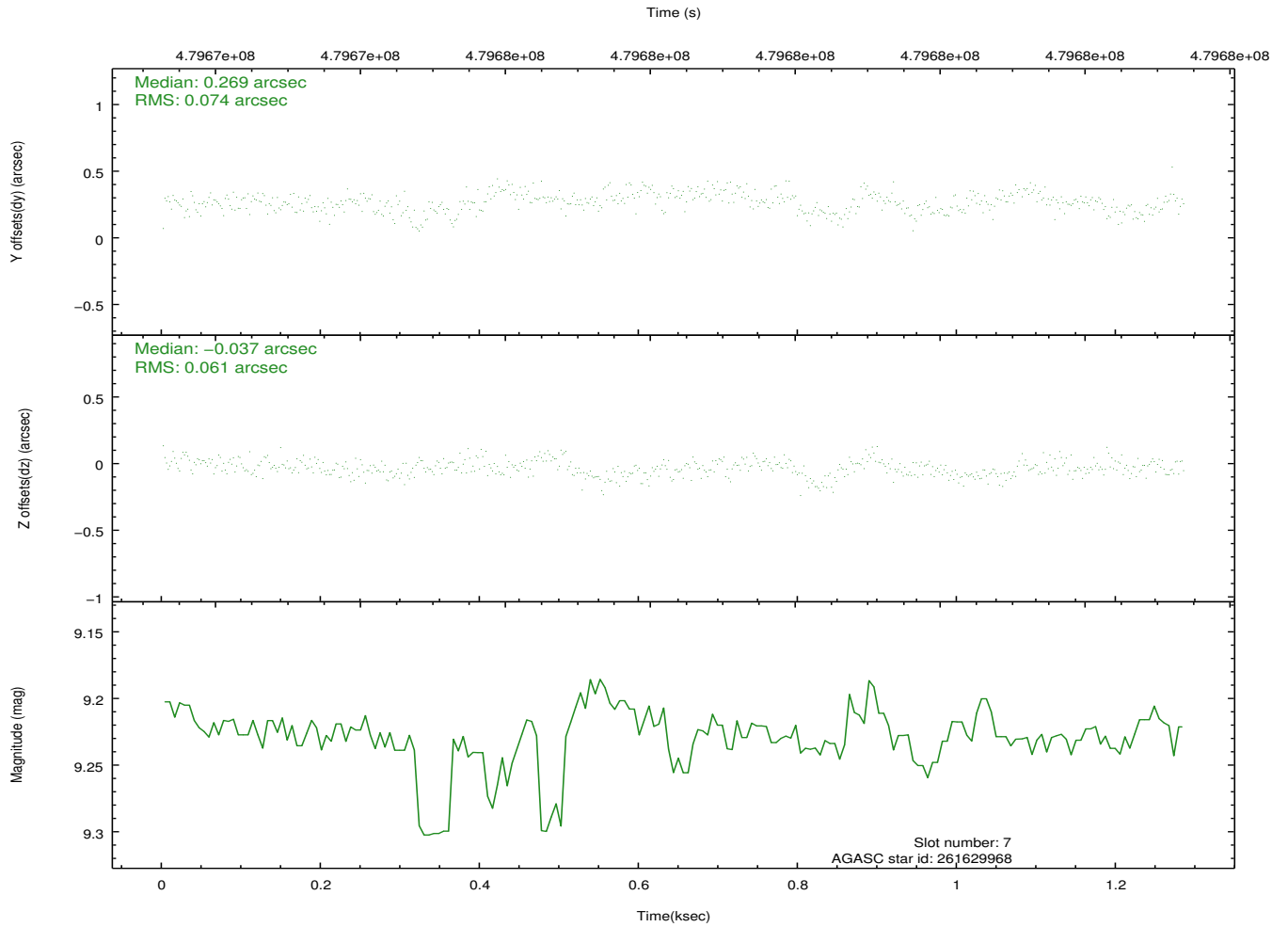
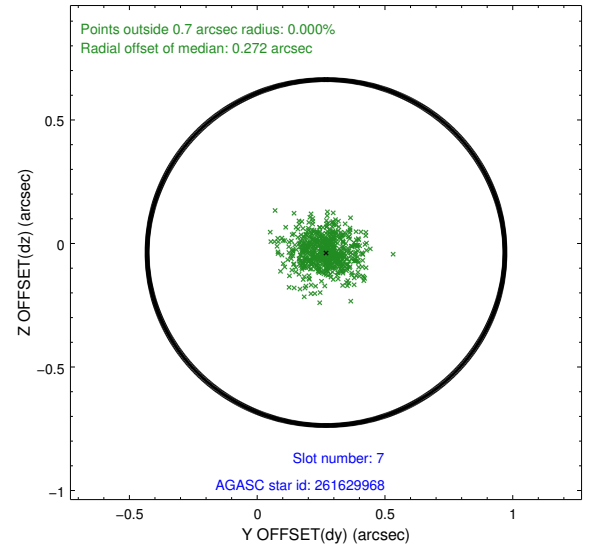
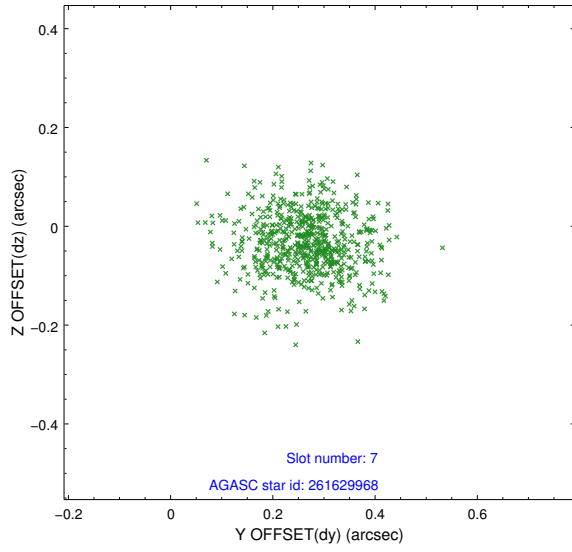
2.4.3 Slot 5



2.4.4 Slot 6

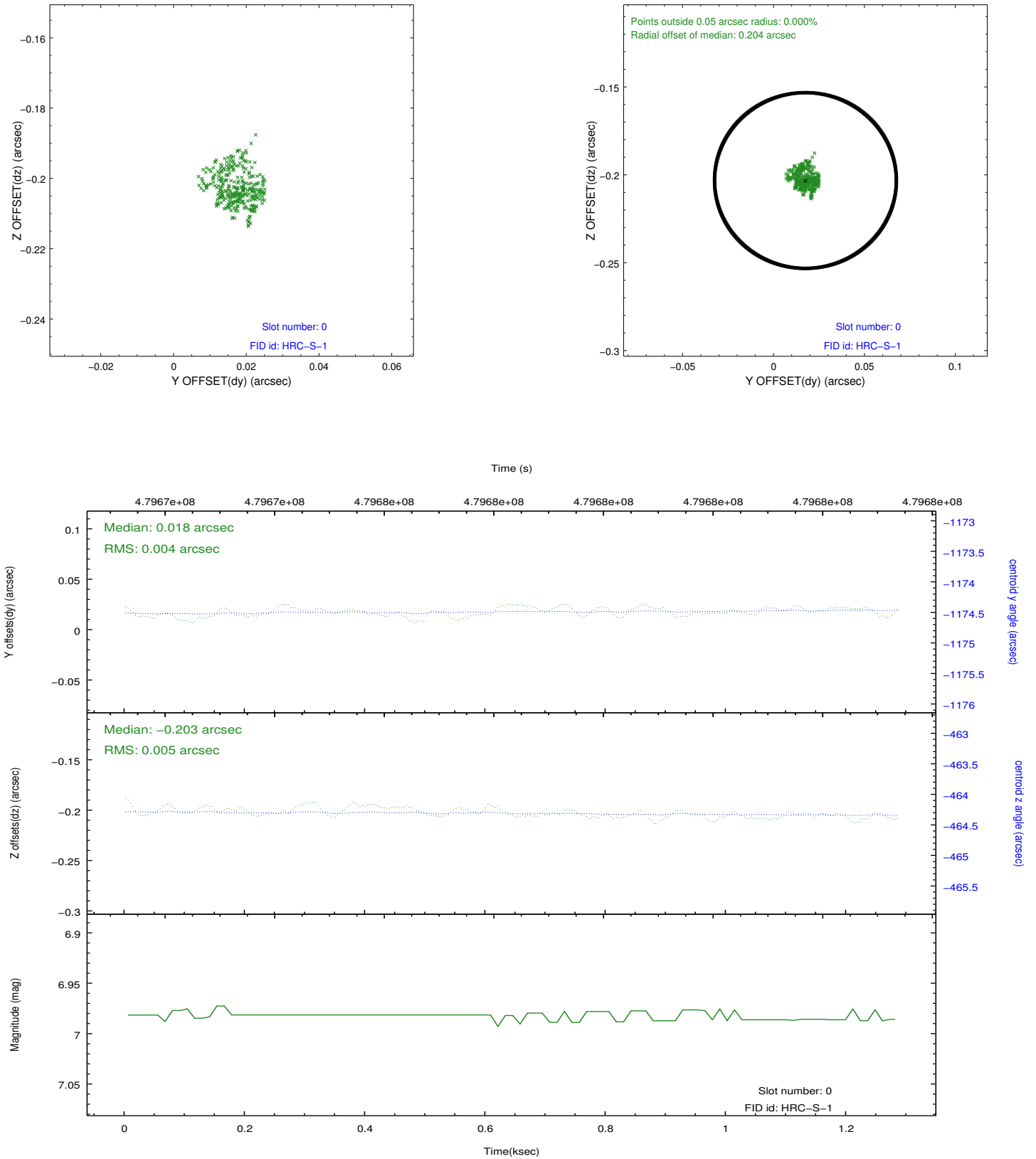


2.4.5 Slot 7

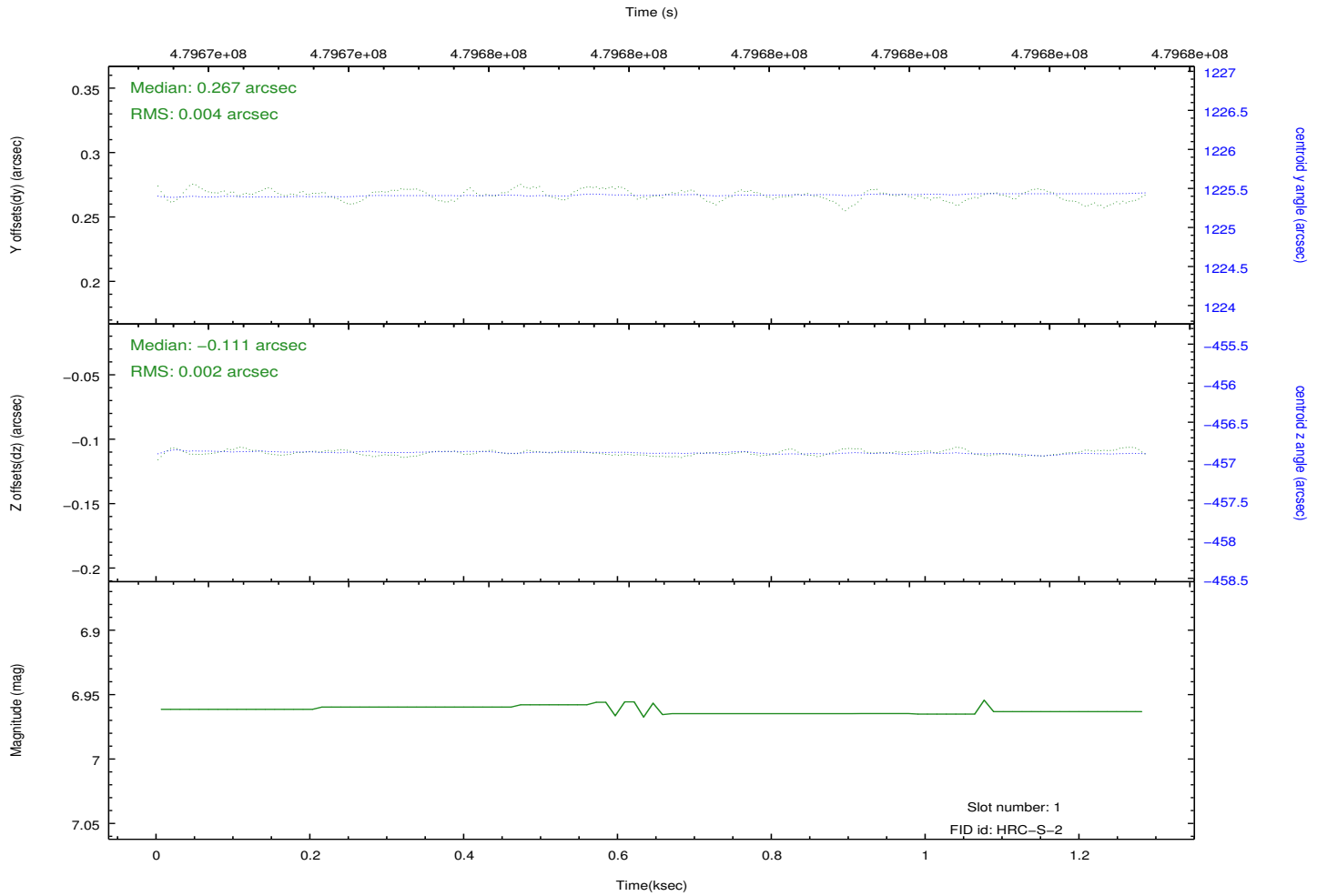
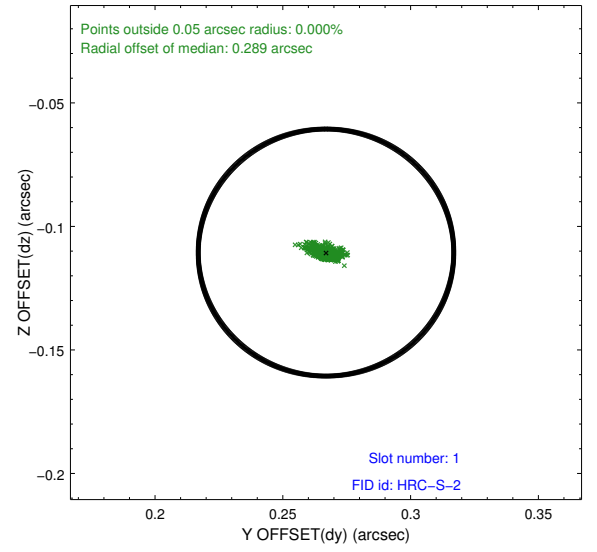
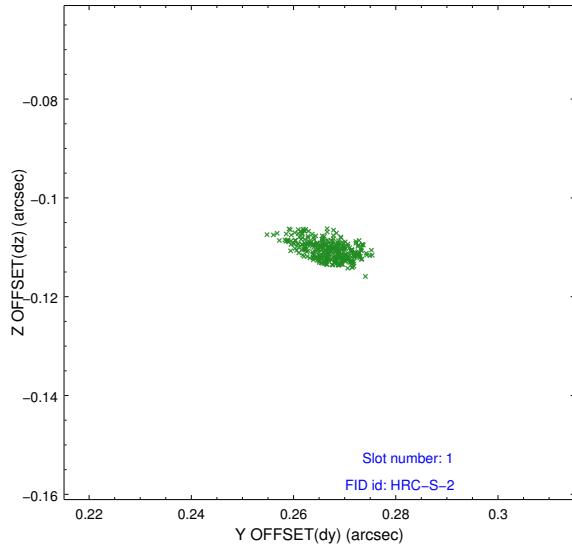


2.5 FID Slots

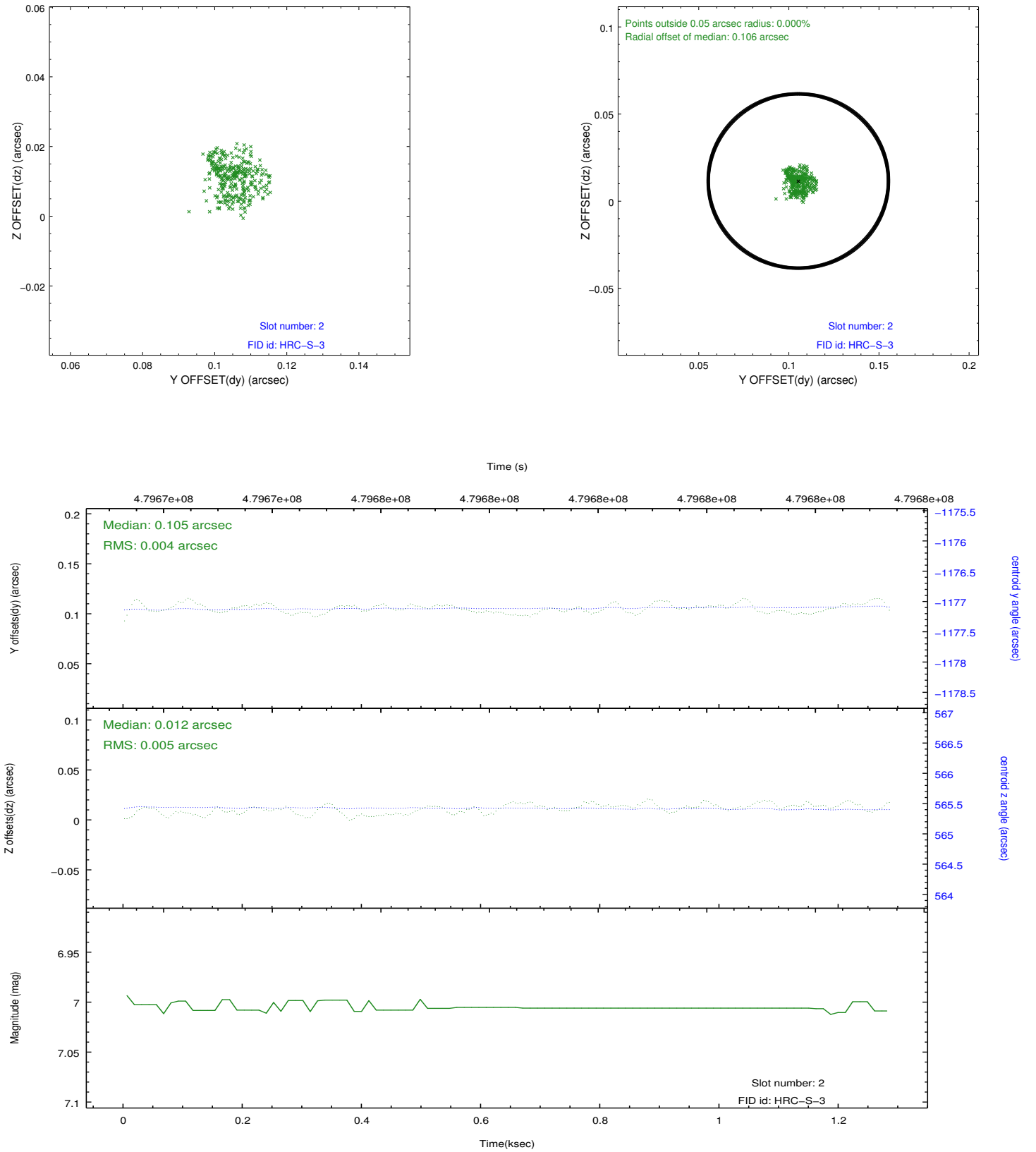
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2845813193321

A.2 Comments

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.