

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15454 - L2 Version 2
Chandra X-Ray Center

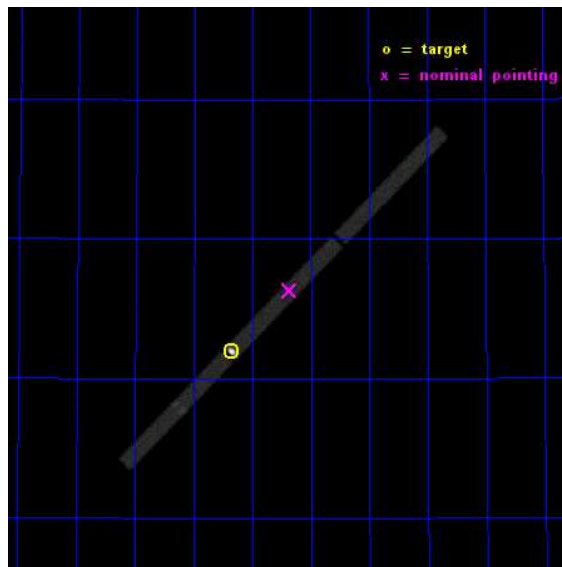
L2 Processing Date : Dec 1 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

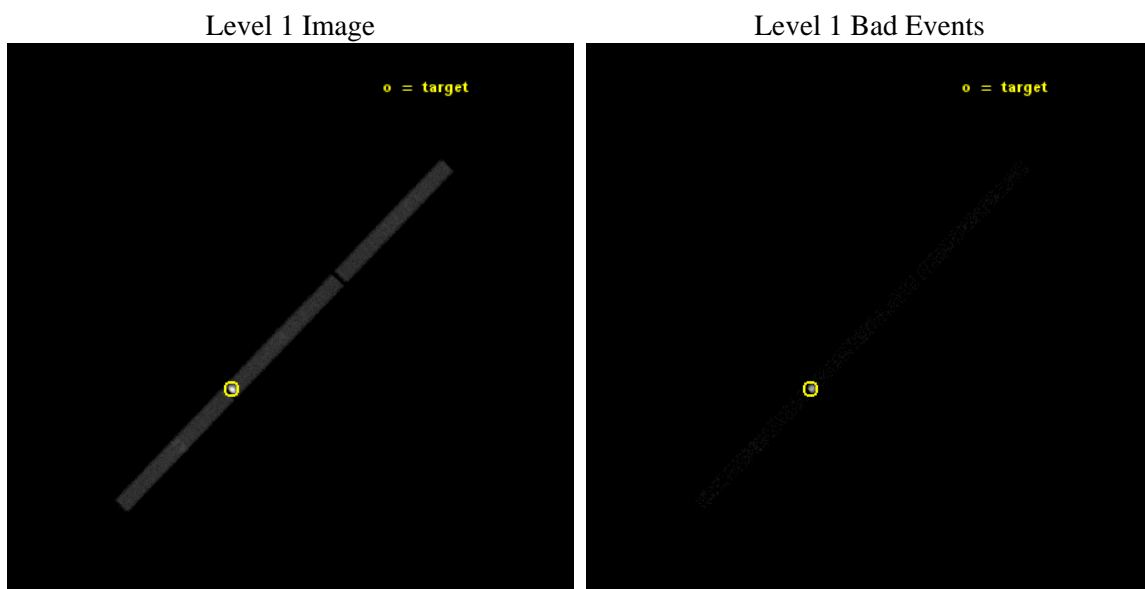
seq_num	291133	Sequence number
obs_id	15454	Observation id
title	AO-14 Calibration Observations of HZ43 to measure the gain accross the HRC-S plate gaps	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	198.84135549024	Nominal RA [deg]
dec_nom	29.317222156101	Nominal Dec [deg]
roll_nom	134.81915894814	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1286.6313194633	[s]
livetime	957.43912229655	Ontime multiplied by DTCOR
l2events	214960	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	1286.6313194633	[s]
caldbver	4.6.4	 	l1events	295730	Number of level 1 events
date	2014-12-02T02:25:34	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

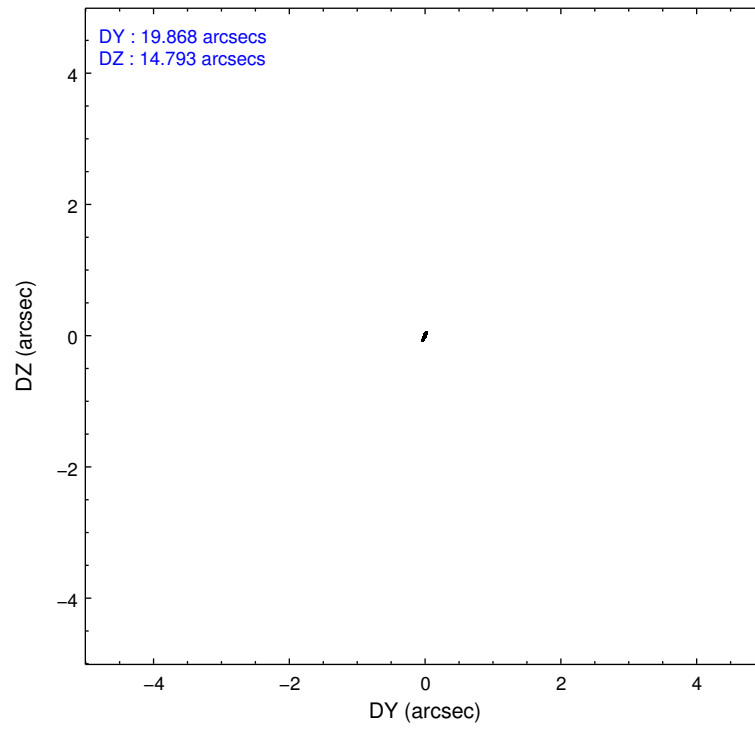
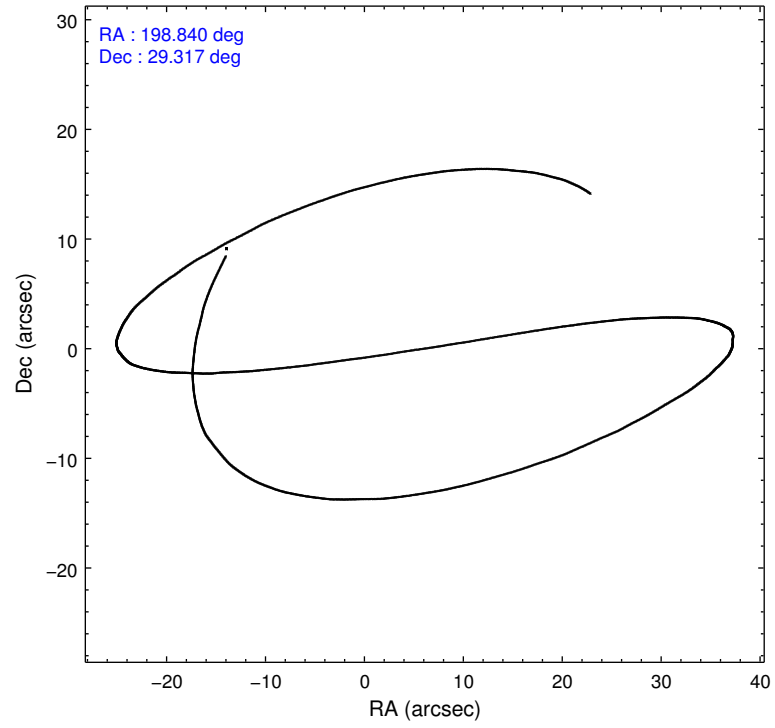
	segment 1	segment 2	segment 3
level 1 events	35544	225420	34766
rejected events	7434	43509	7451
rejected %	20%	19%	21%

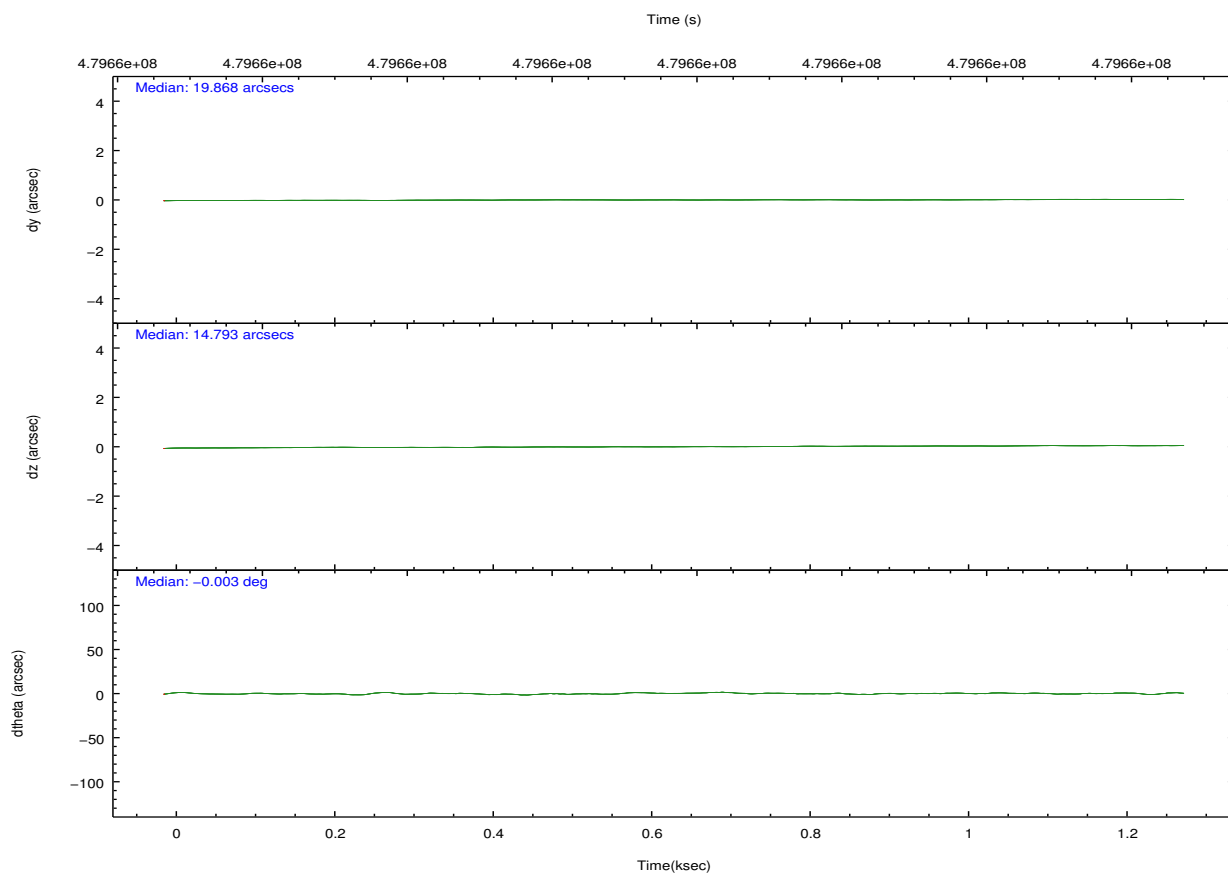
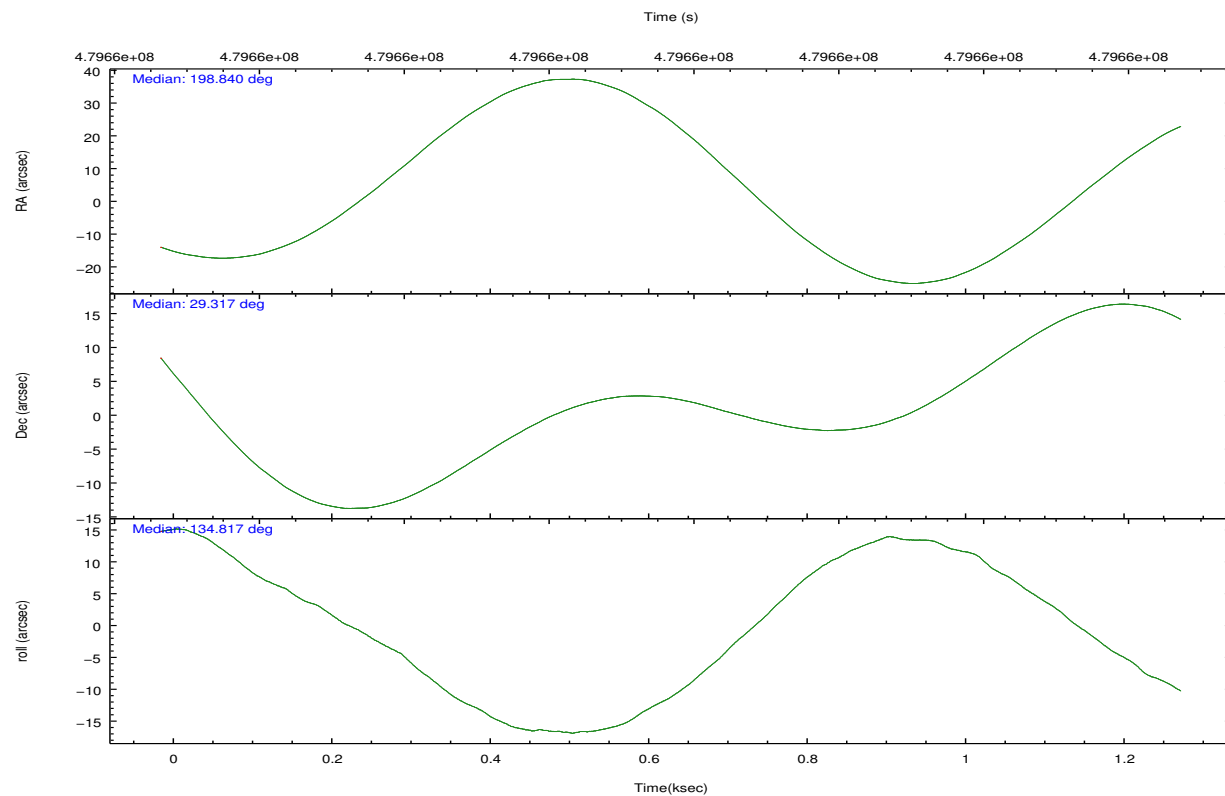
2.2 Compared Parameters

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	198.874392	198.8413554902356
[deg] Pointing Dec	29.311252	29.31722215610122
[deg] Pointing Roll	134.735609	134.8191589481353
[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)	479661899.184000	479661523.61766
Observation start date	2013-03-14T15:23:52	2013-03-14T15:18:43
[s] Observation end time (MET)	479662999.184000	479663133.38025
Observation end date	2013-03-14T15:42:12	2013-03-14T15:45:33

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

2.3 Aspect



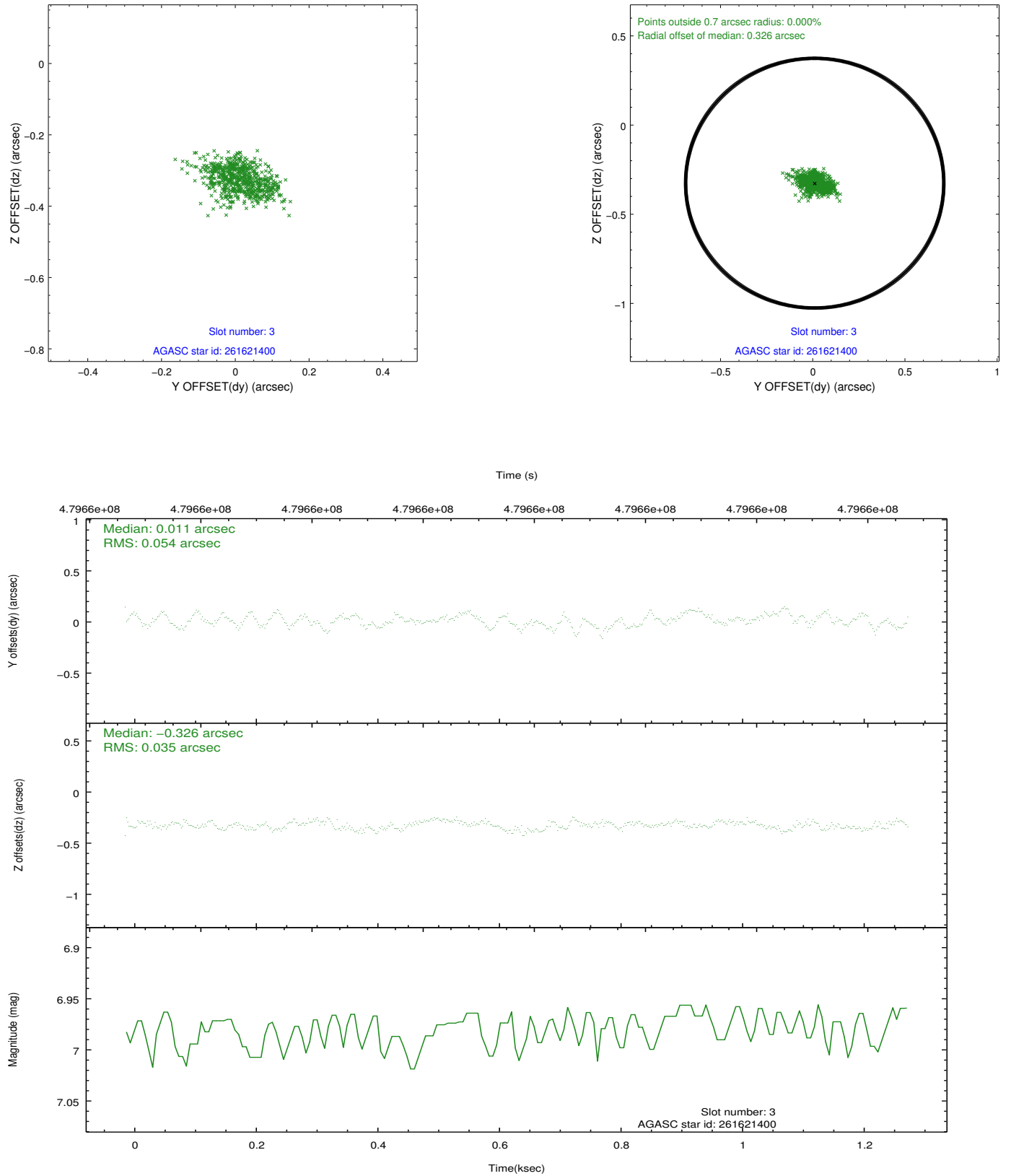


Slot Statistics

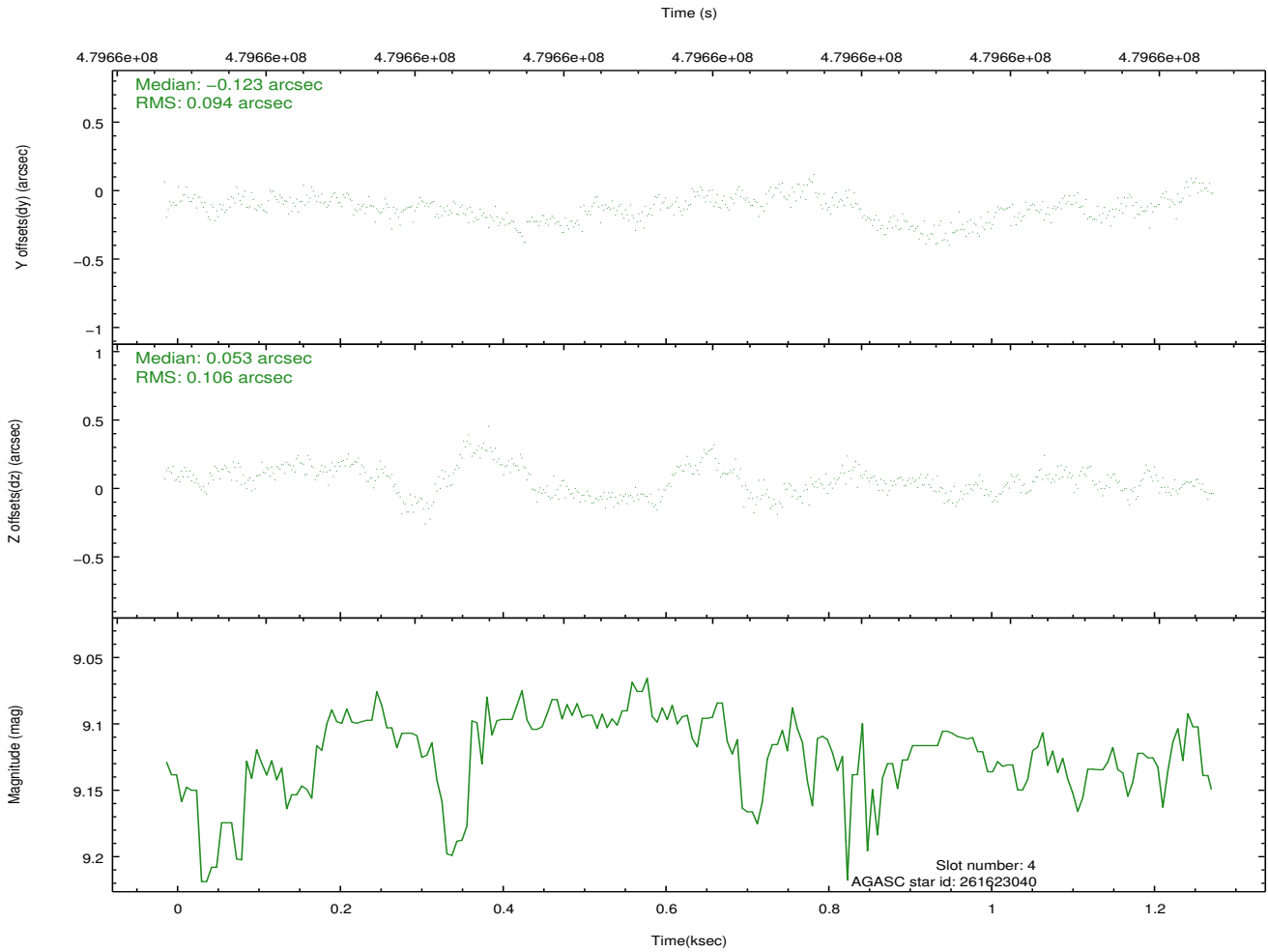
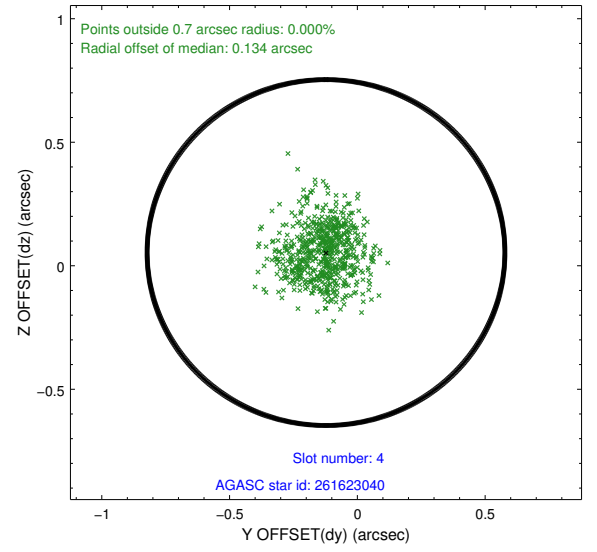
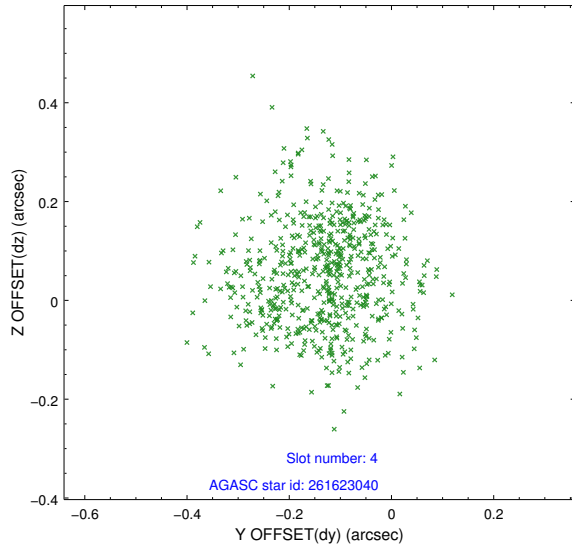
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.97	315	0.023	-0.211	0.006	0.009	0.000000	0.000000	-1174.46	-463.70
1	FID		HRC-S-2	6.95	315	0.260	-0.110	0.004	0.006	0.000000	0.000000	1221.71	-457.73
2	FID		HRC-S-3	7.00	315	0.106	0.018	0.006	0.009	0.000000	0.000000	-1173.21	564.60
3	GUIDE	used	261621400	6.98	629	0.011	-0.326	0.069	0.108	198.901600	28.741982	-1517.20	1379.22
4	GUIDE	used	261623040	9.12	629	-0.123	0.053	0.150	0.247	198.792686	29.757643	1317.58	-949.54
5	GUIDE	used	261624080	7.12	629	-0.073	0.009	0.058	0.089	198.424651	29.817768	2286.67	-290.68
6	GUIDE	used	261626352	8.62	629	-0.021	-0.019	0.090	0.153	198.417097	29.781420	2214.28	-180.29
7	GUIDE	used	261629720	8.12	627	0.219	0.274	0.082	0.140	199.236176	29.044452	-1479.96	-136.23

2.4 Star Slots

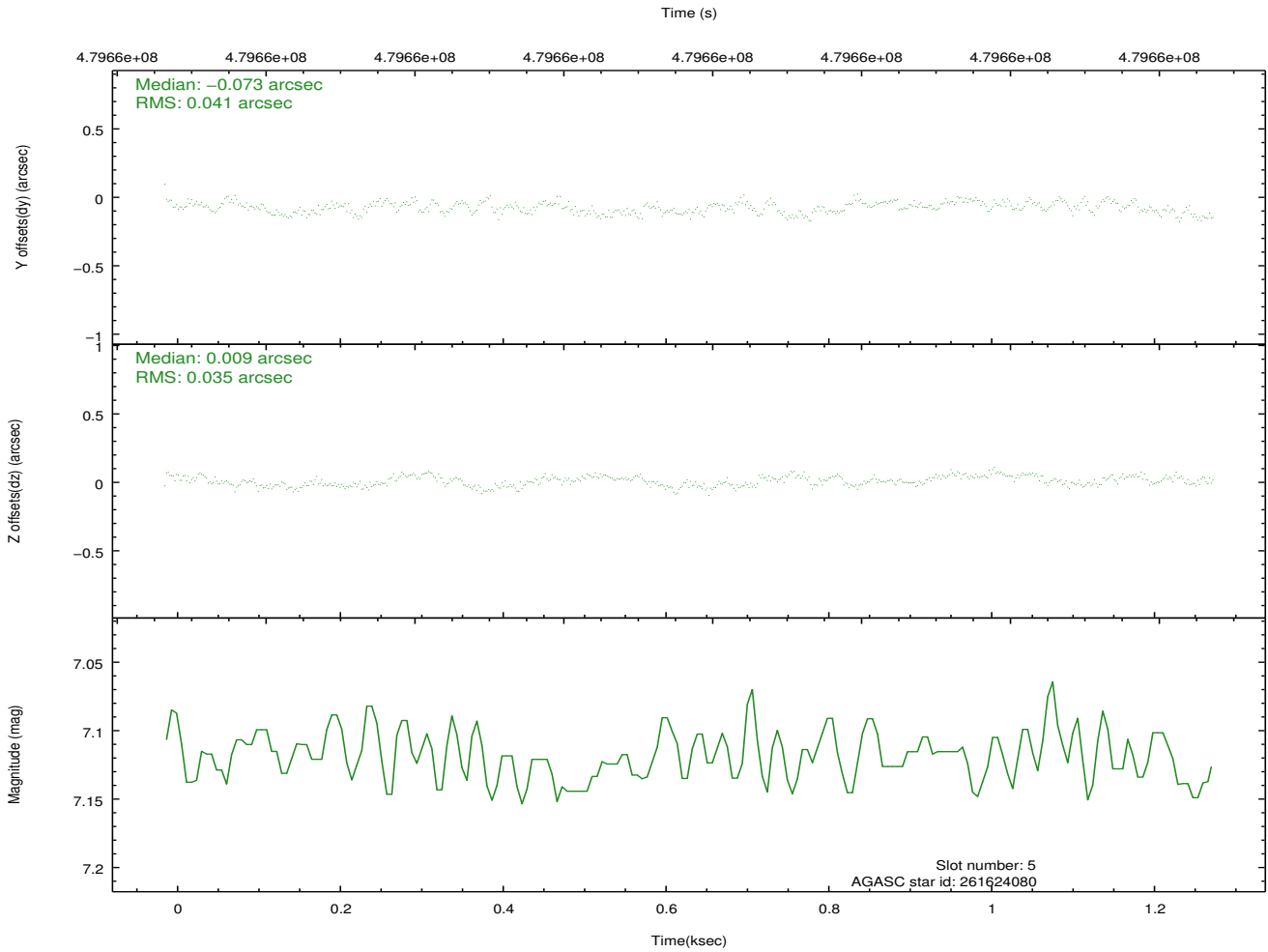
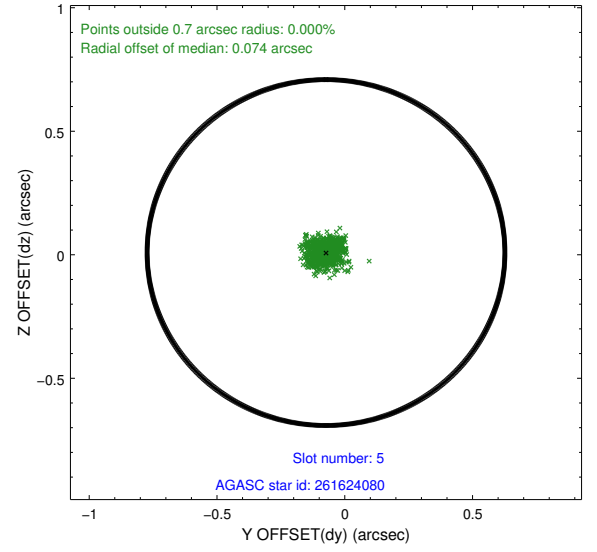
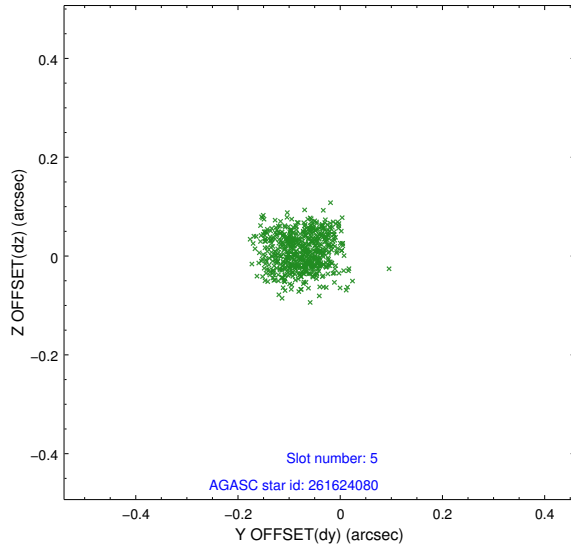
2.4.1 Slot 3



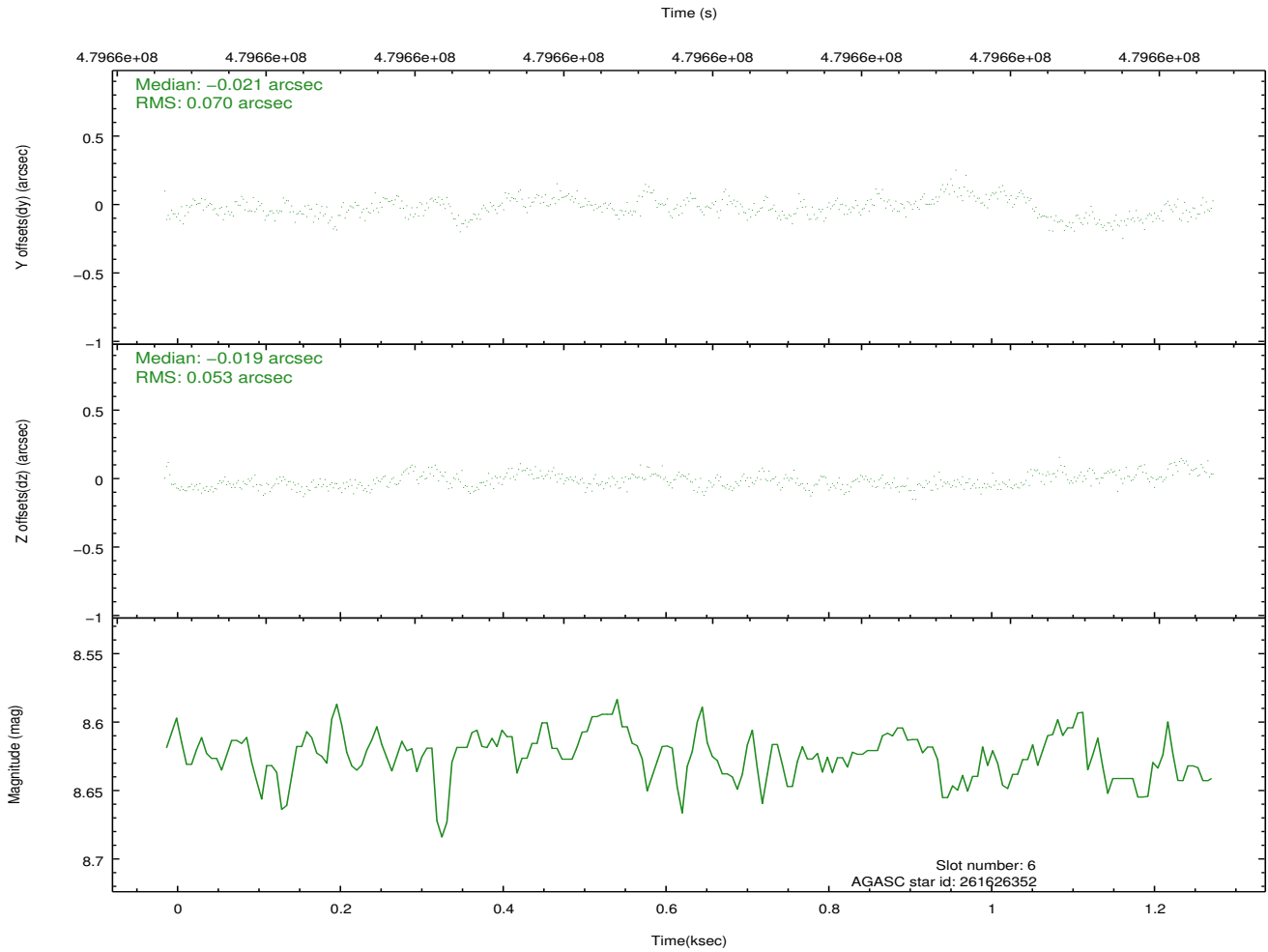
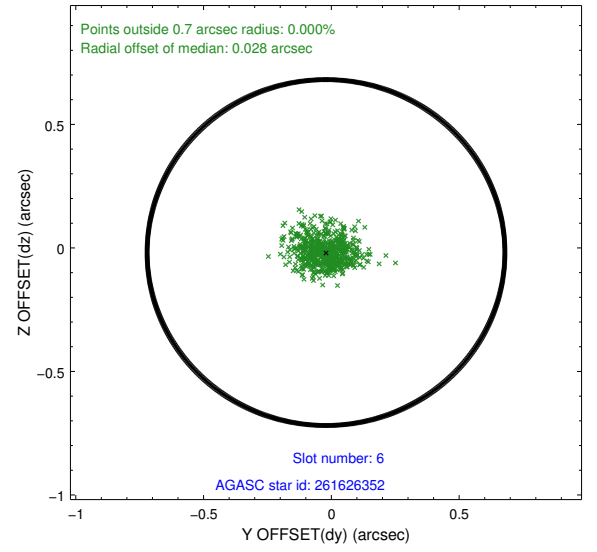
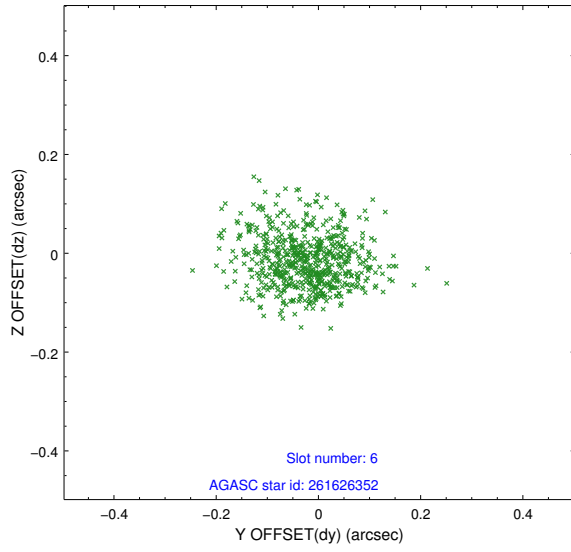
2.4.2 Slot 4



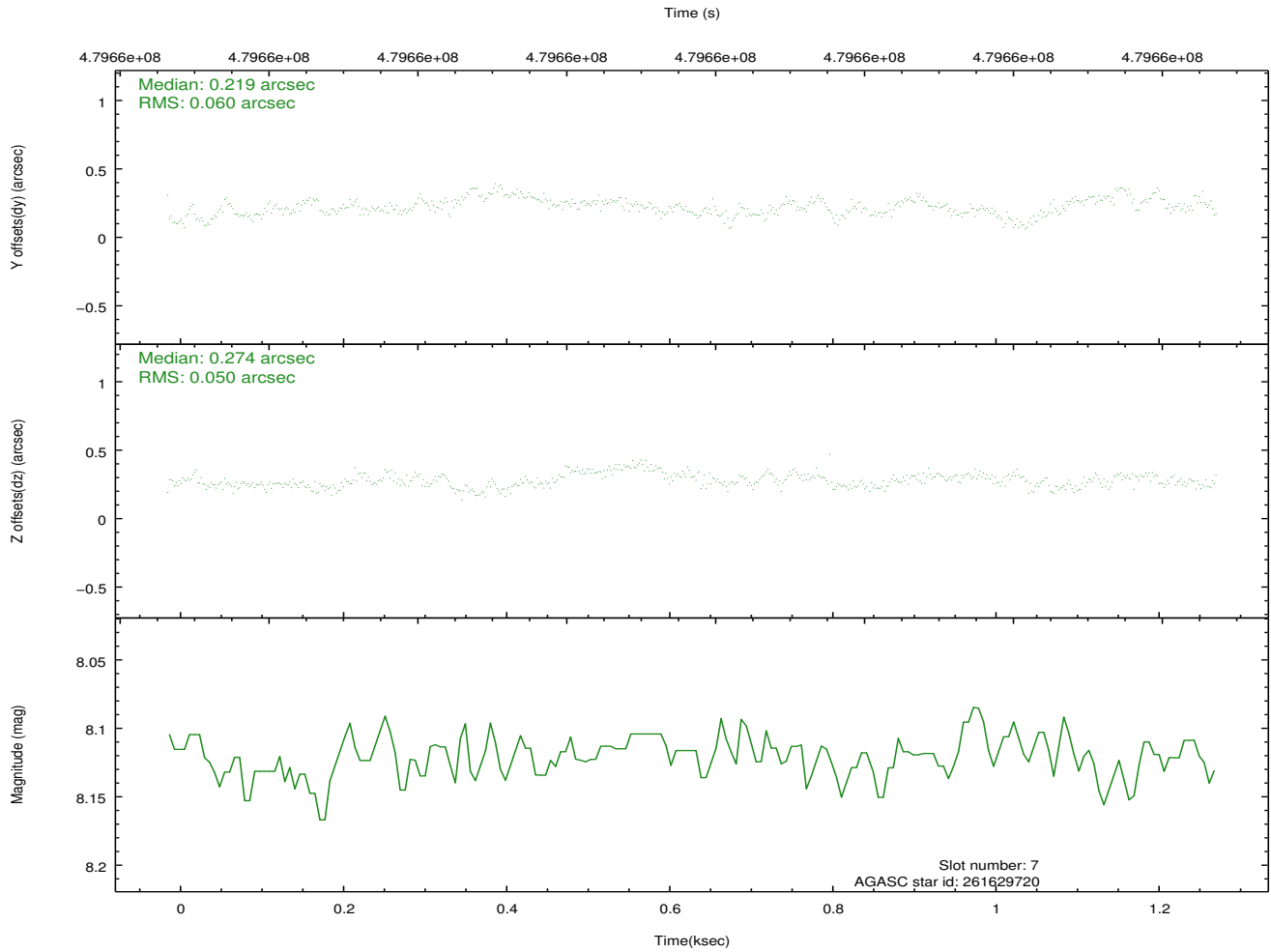
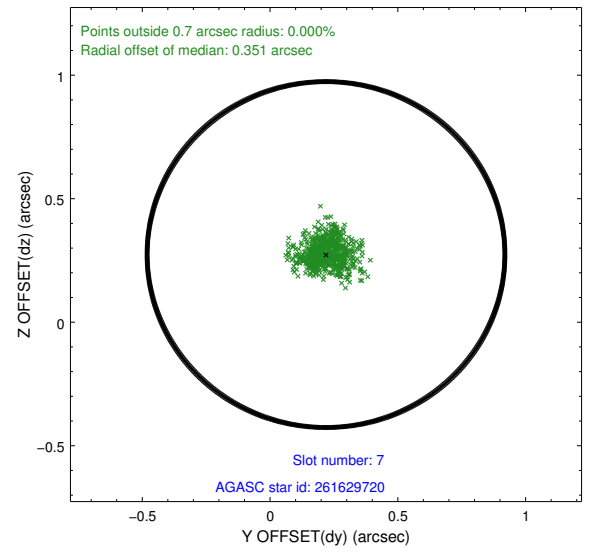
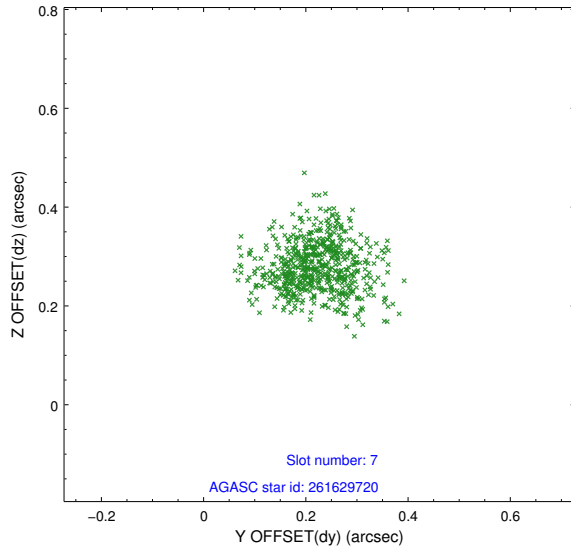
2.4.3 Slot 5



2.4.4 Slot 6

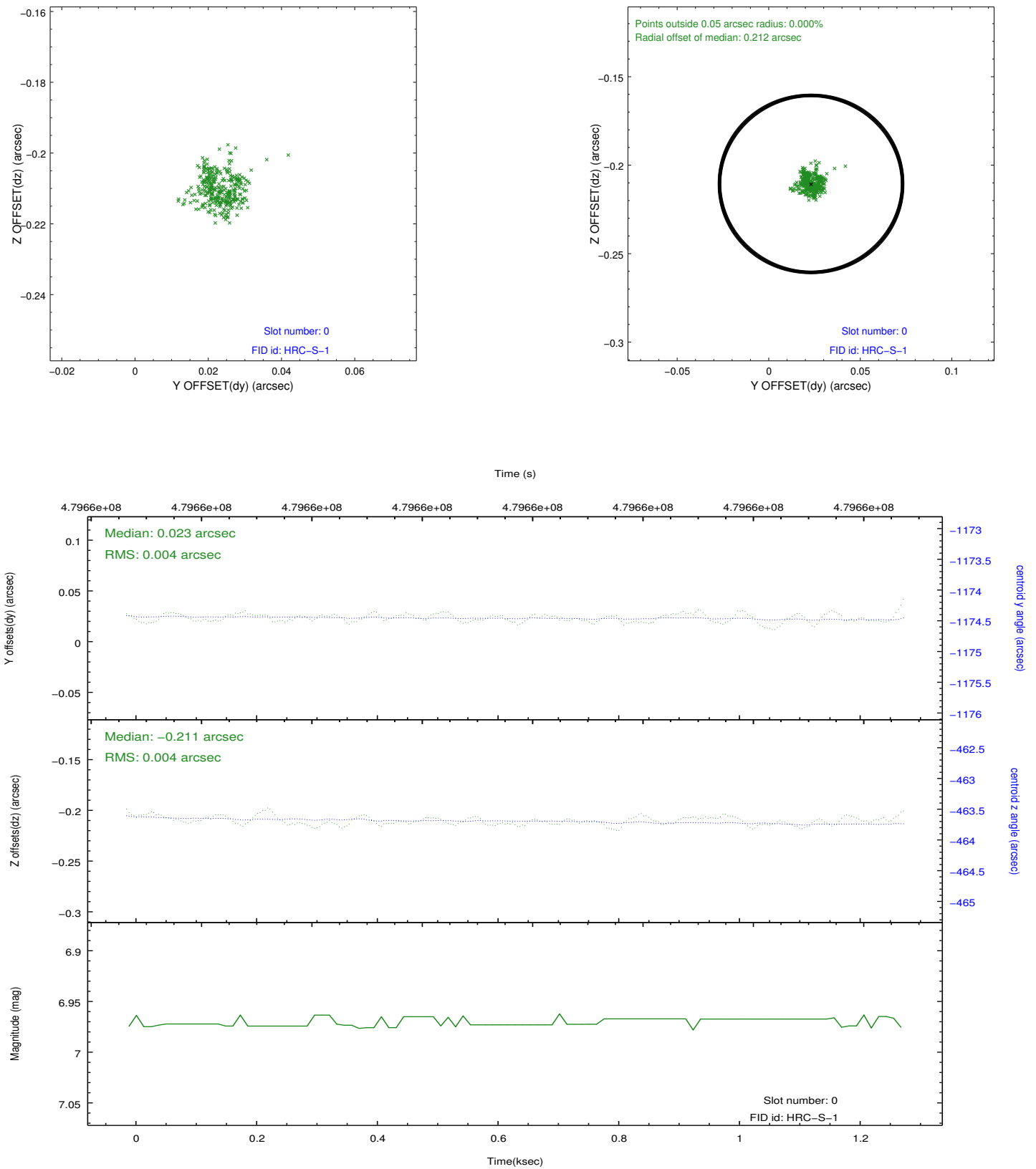


2.4.5 Slot 7

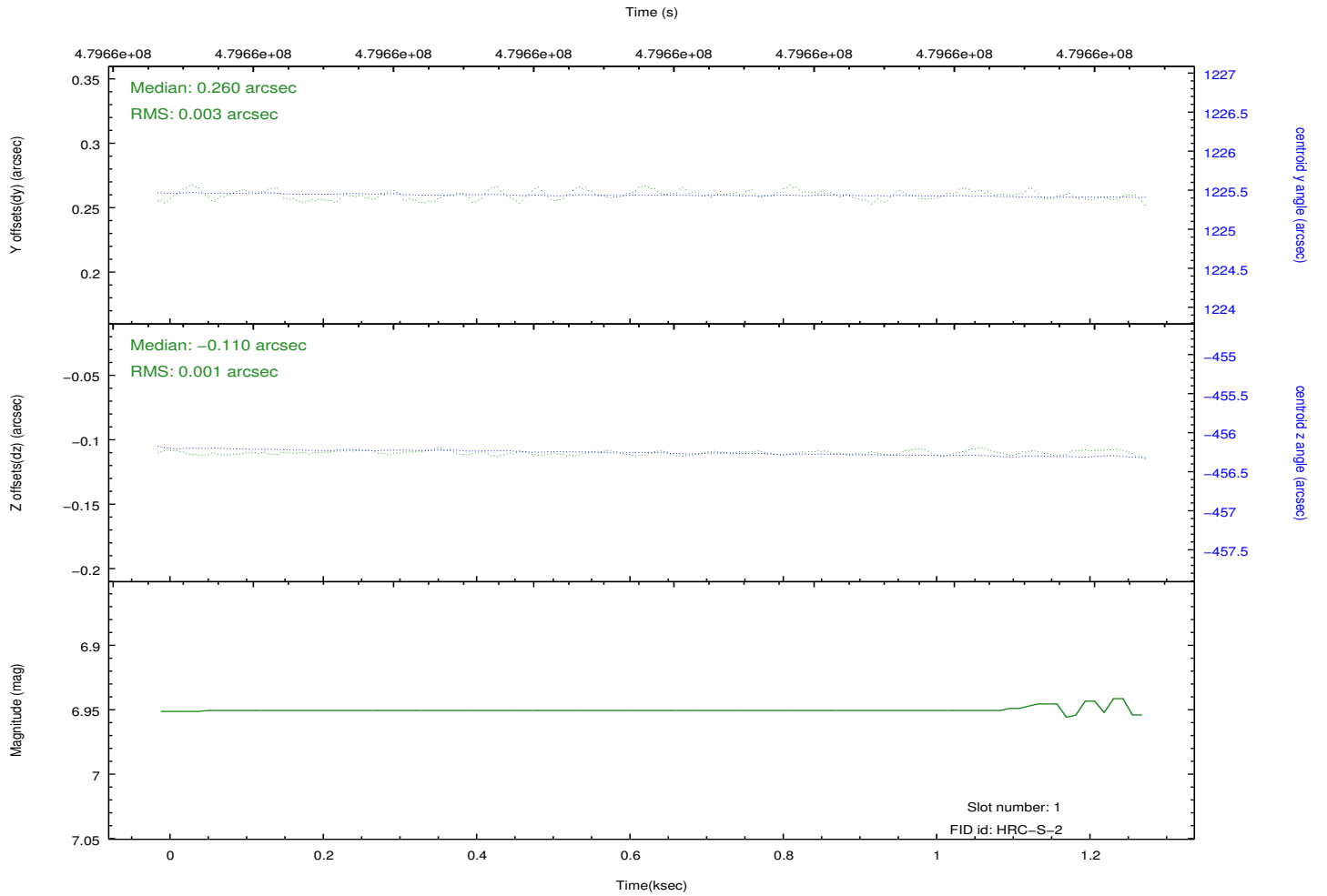
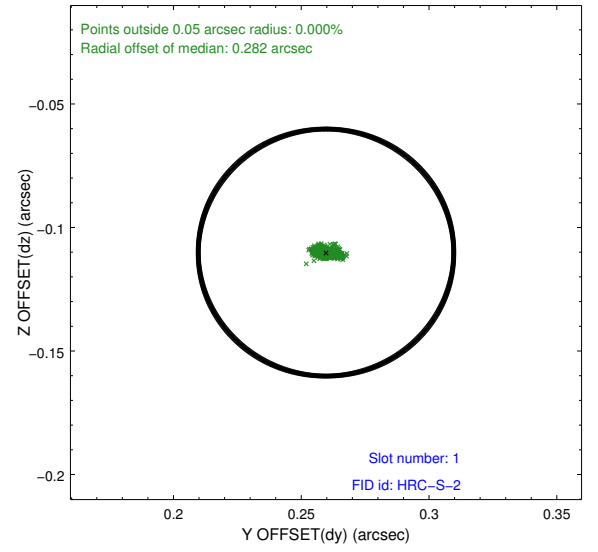
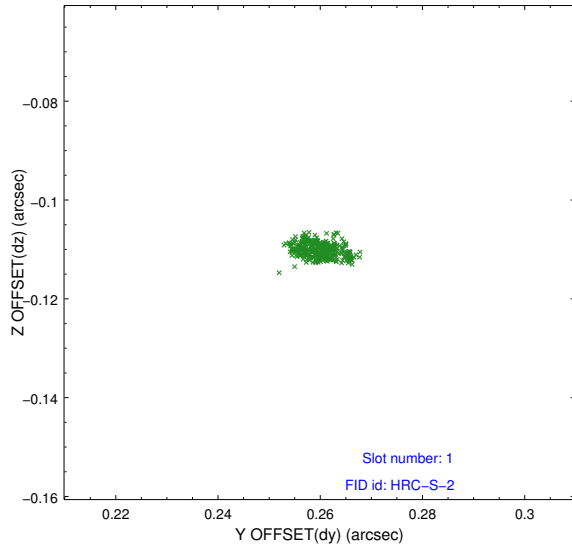


2.5 FID Slots

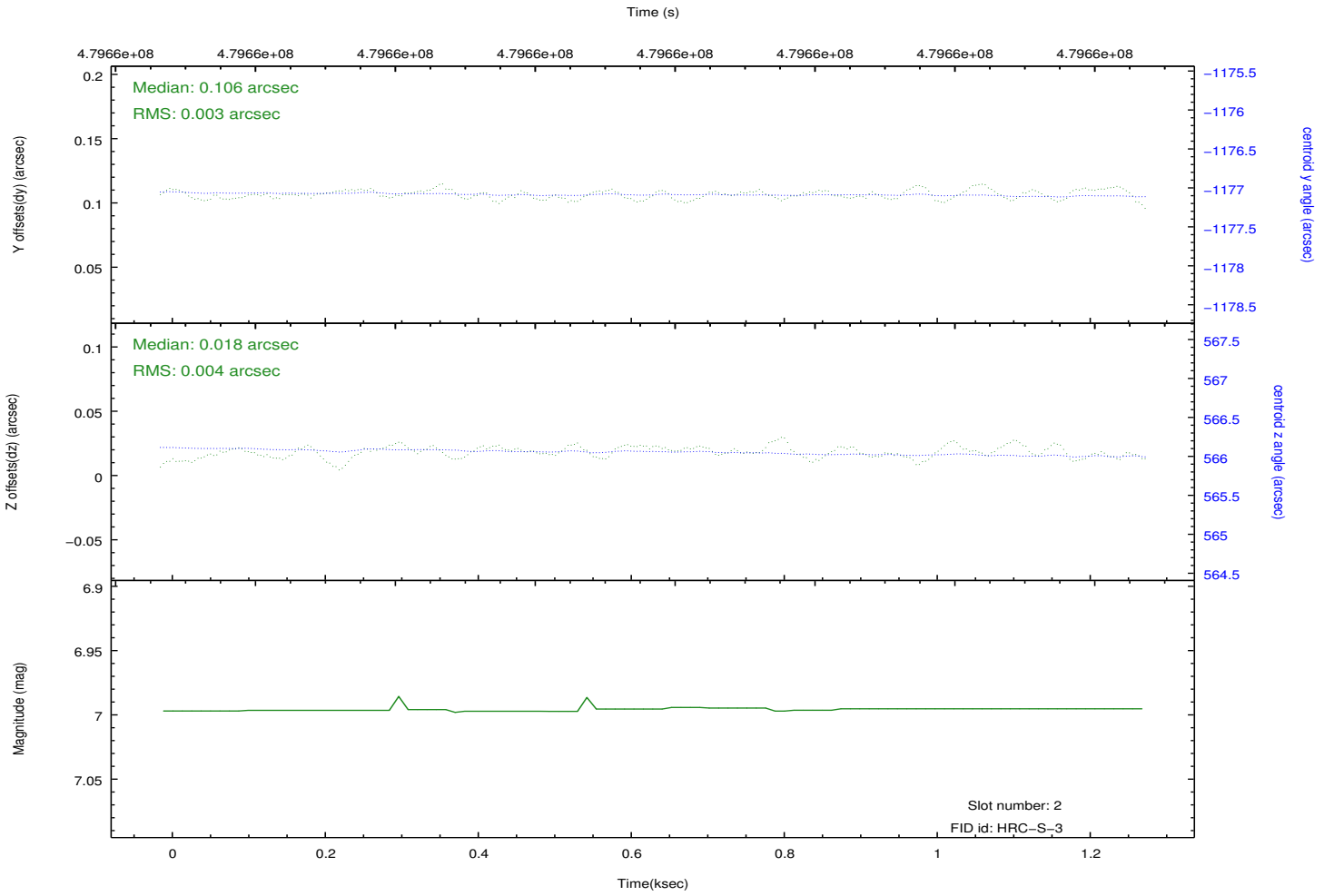
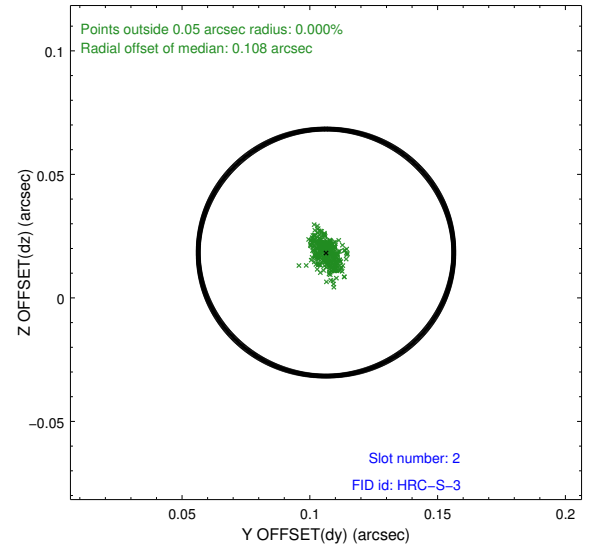
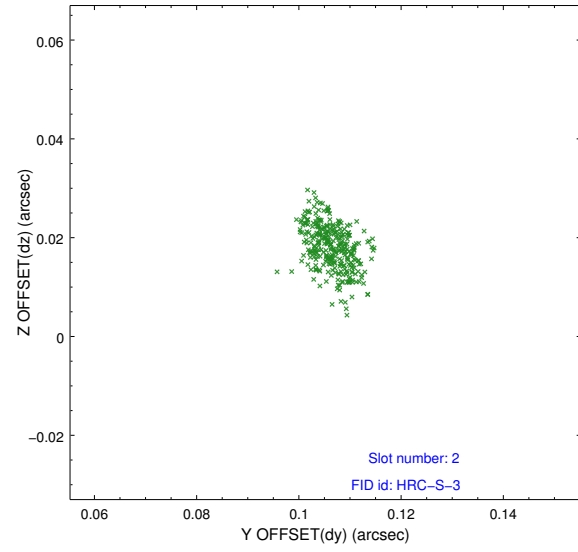
2.5.1 Slot 0



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	1.2866313194633

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.