

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15428 - L2 Version 2
Chandra X-Ray Center

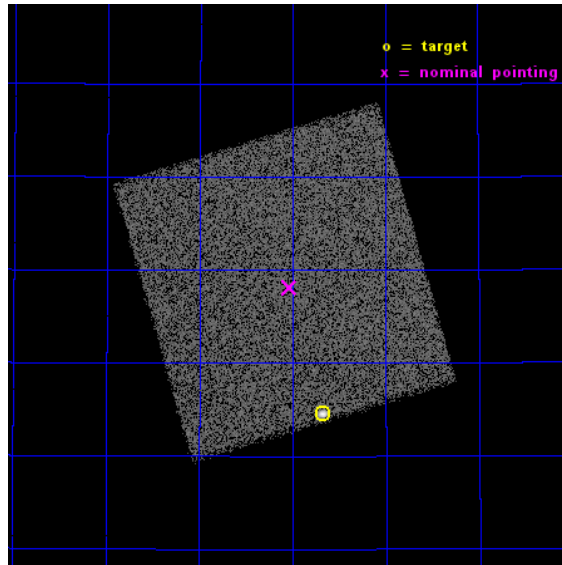
L2 Processing Date : Dec 6 2014

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

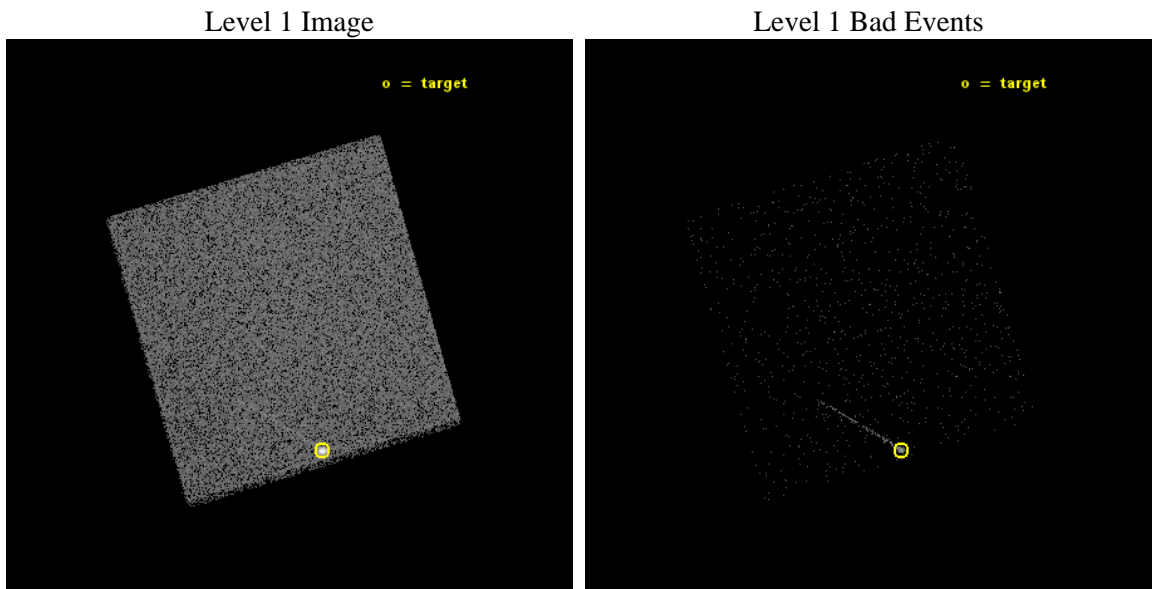
seq_num	291107	Sequence number
obs_id	15428	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.25863622036	Nominal RA [deg]
dec_nom	45.969072684158	Nominal Dec [deg]
roll_nom	208.61294230108	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1186.1813147664	[s]
livetime	1177.0708967347	Ontime multiplied by DTCOR
l2events	71341	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1186.1813147664	[s]
caldbver	4.6.4	 	l1events	121777	Number of level 1 events
date	2014-12-06T11:23:49	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

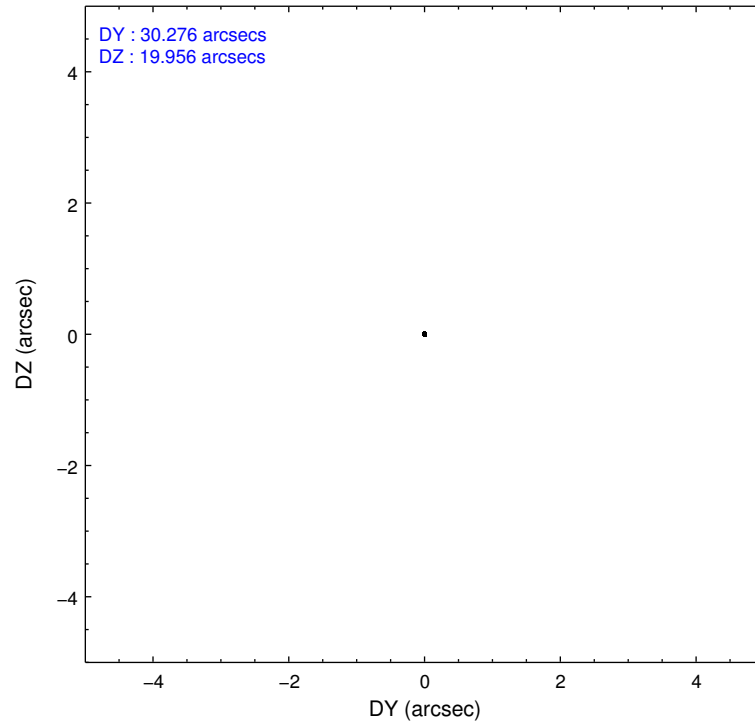
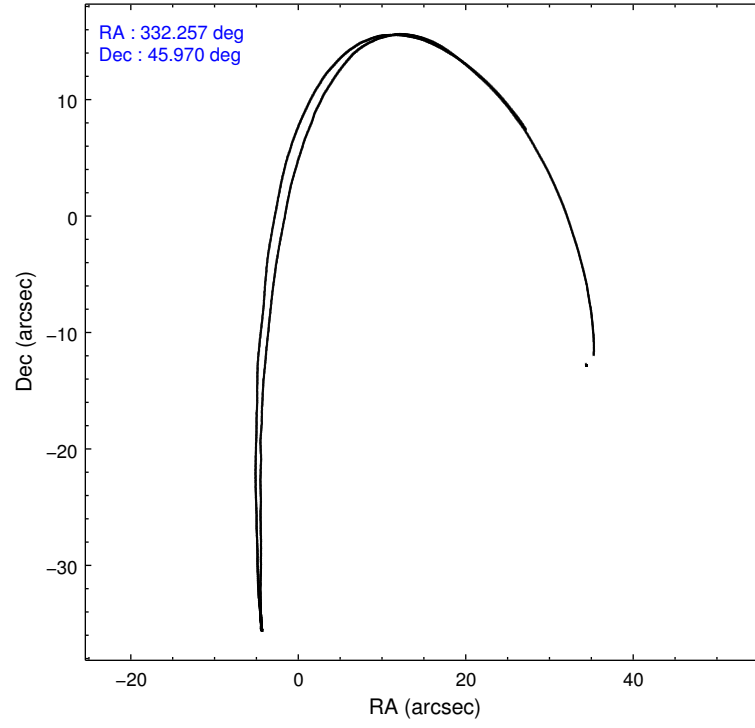
	segment 0
level 1 events	121777
rejected events	26071
rejected %	21%

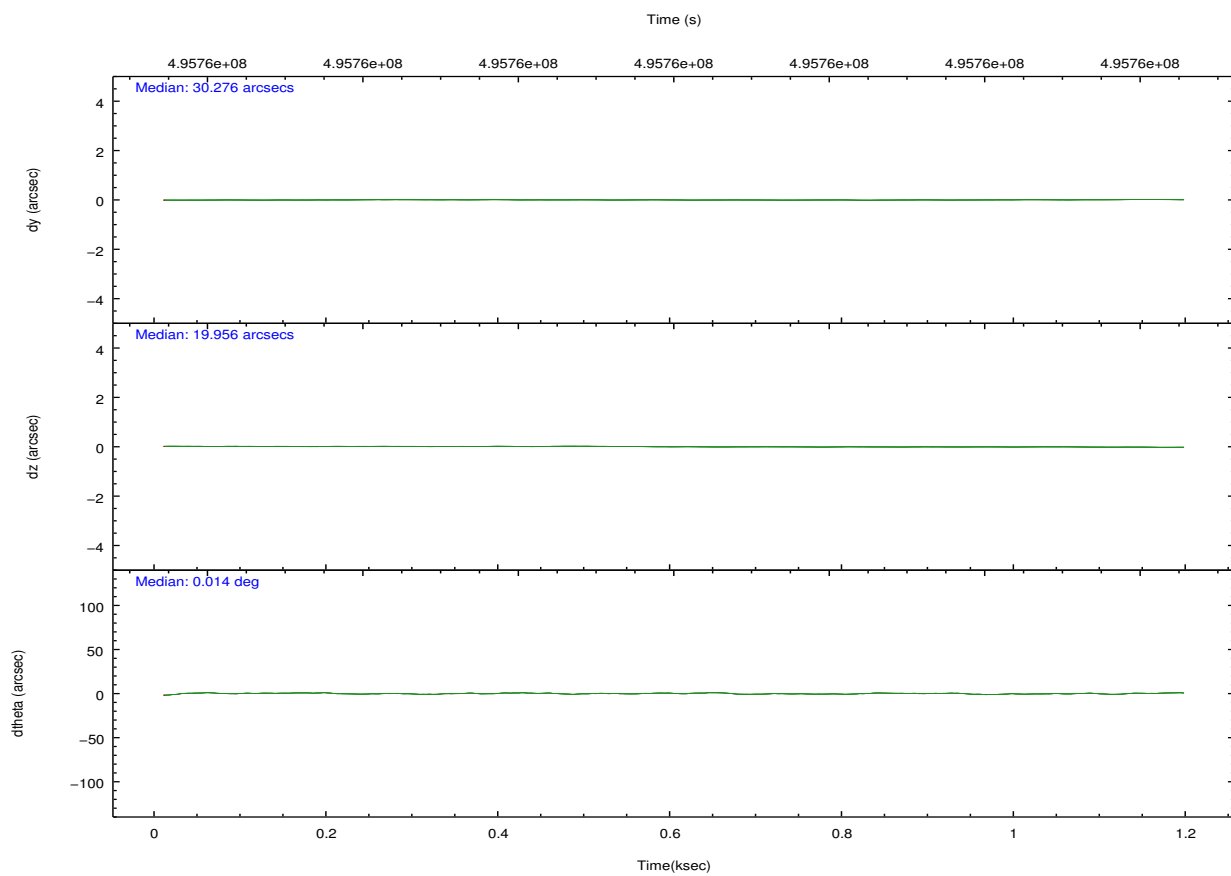
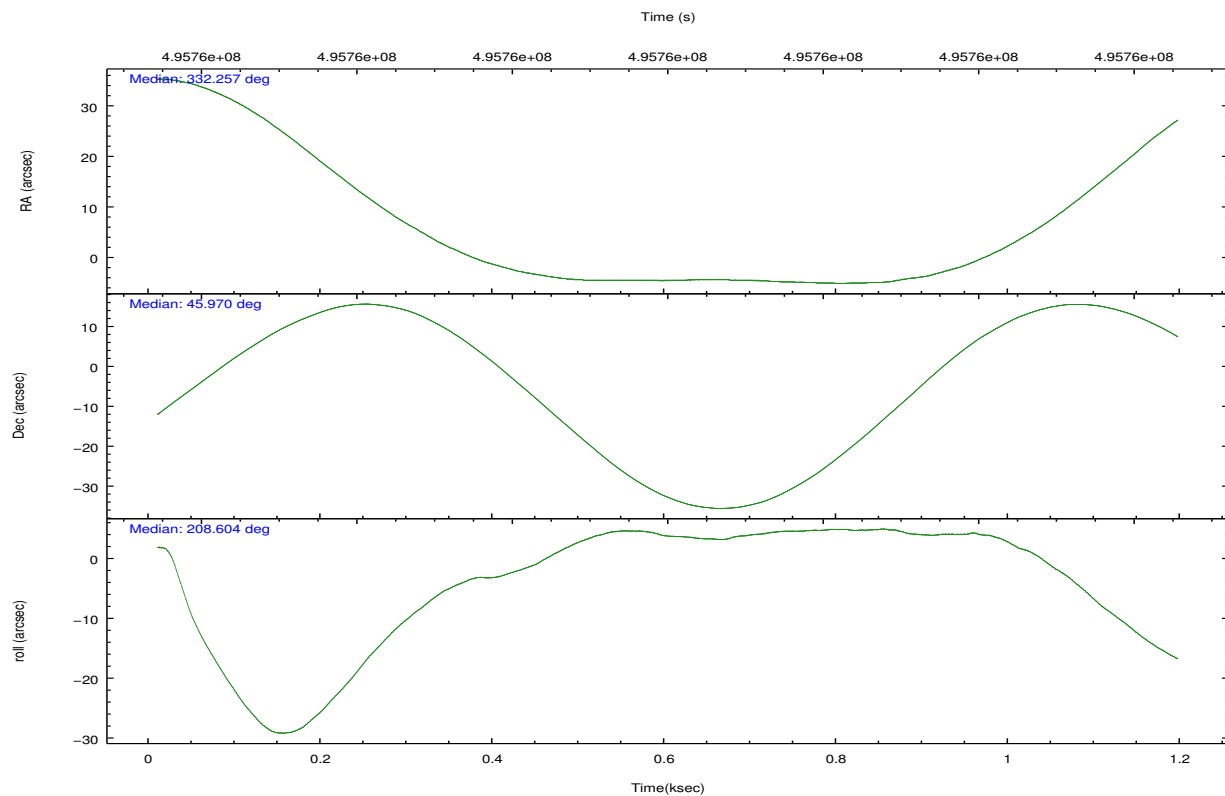
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.278351	332.2586362203551
[deg] Pointing Dec	45.991604	45.96907268415814
[deg] Pointing Roll	208.693882	208.6129423010761
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	495764006.184000	495763630.27988
Observation start date	2013-09-17T00:12:19	2013-09-17T00:07:10
[s] Observation end time (MET)	495765006.184000	495765140.10497
Observation end date	2013-09-17T00:28:59	2013-09-17T00:32:20

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

2.3 Aspect



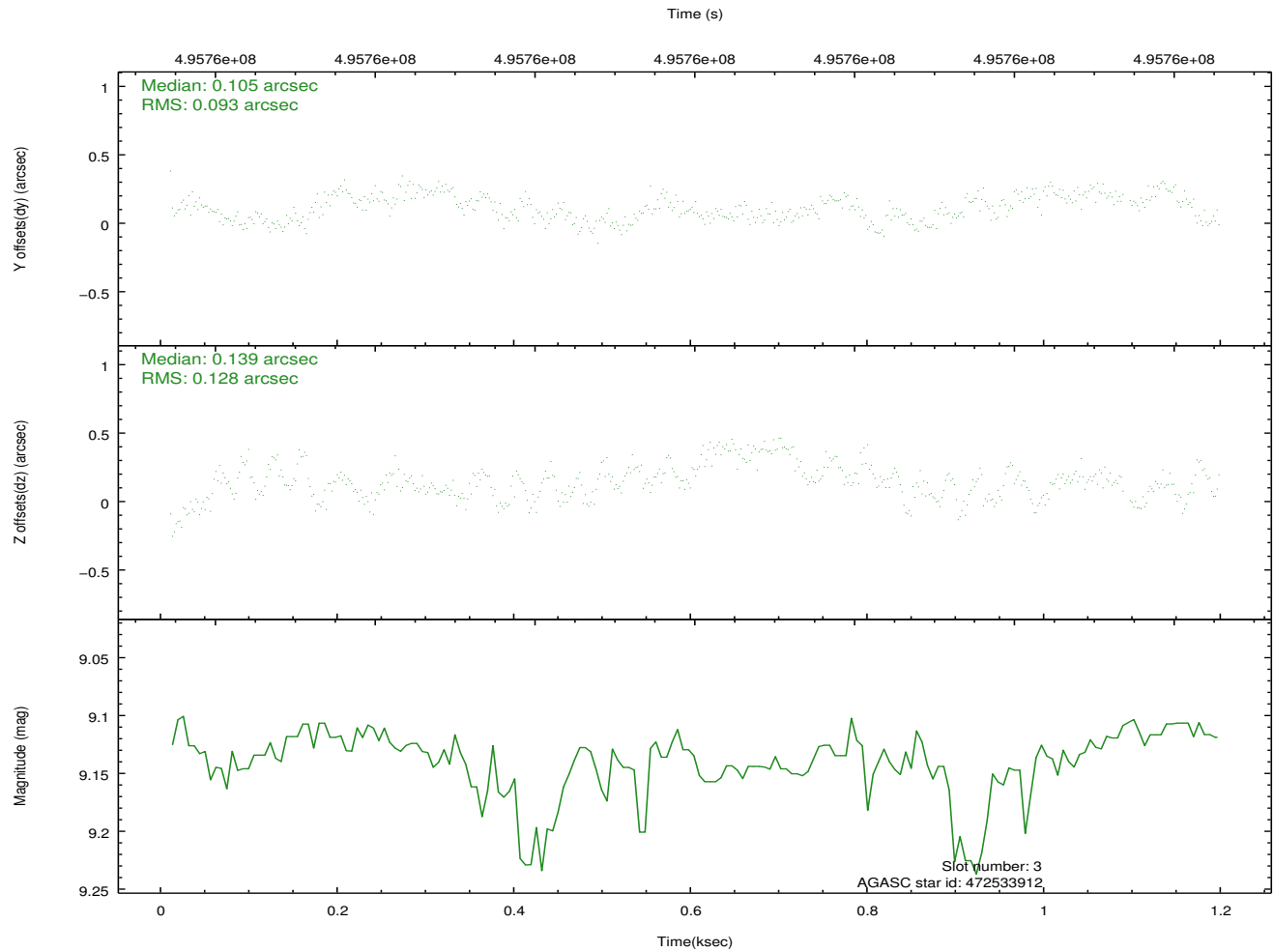
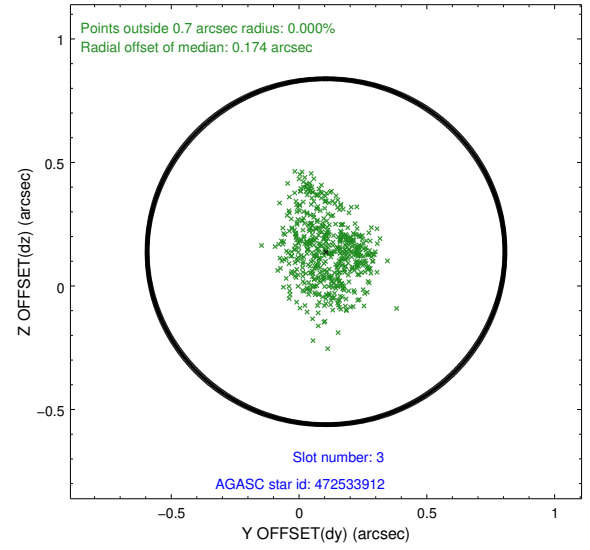
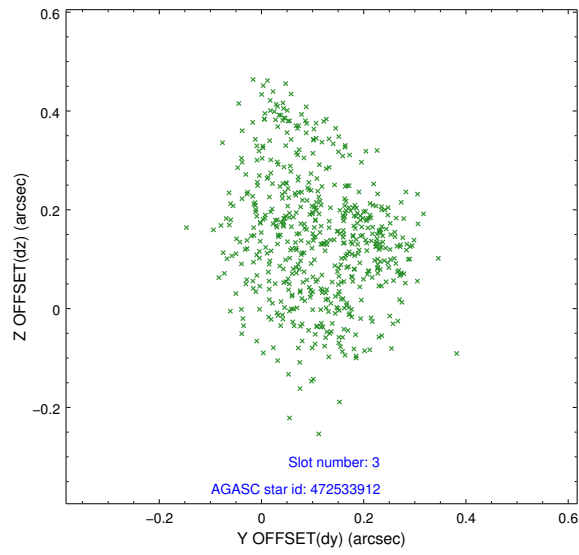


Slot Statistics

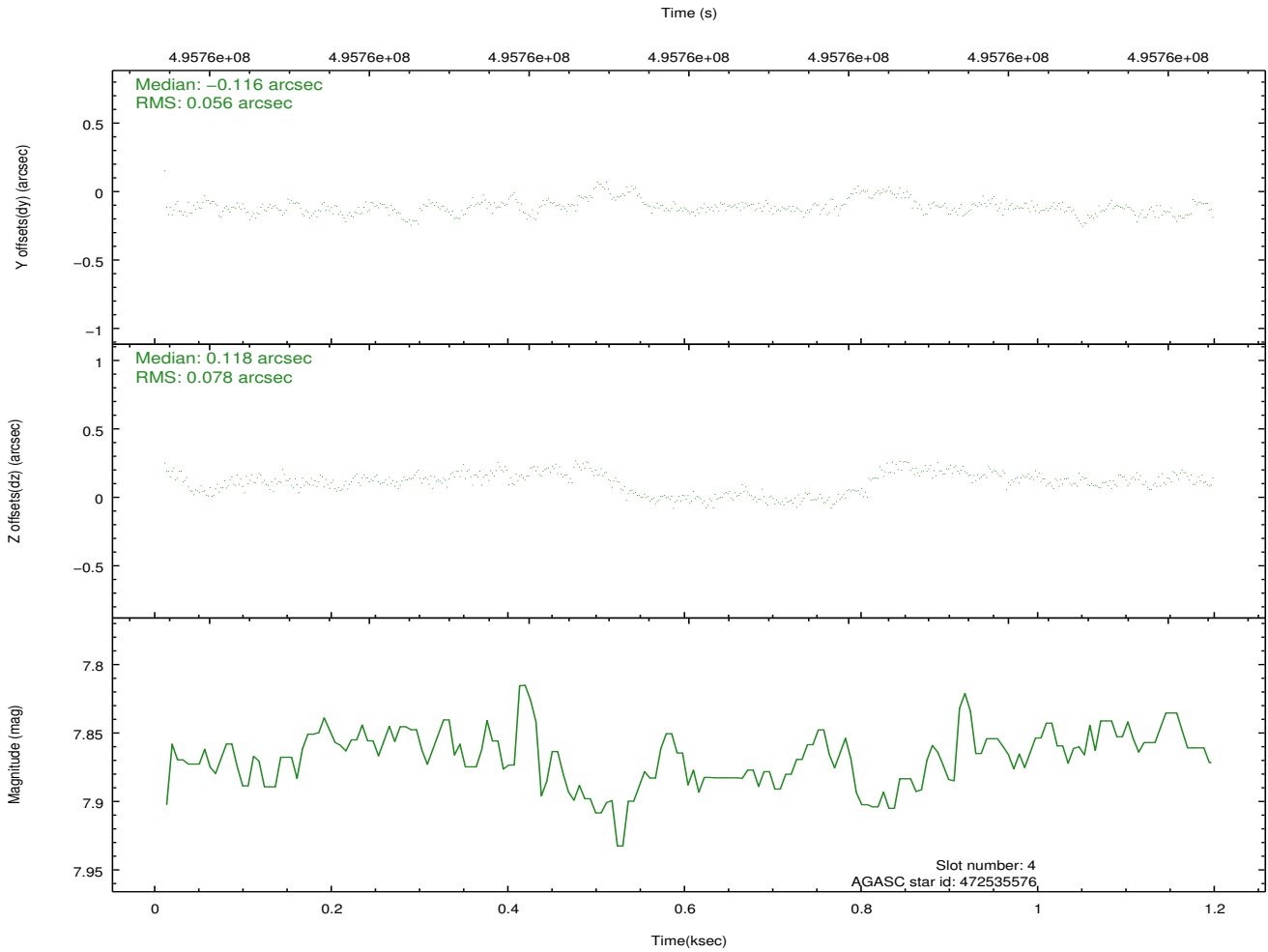
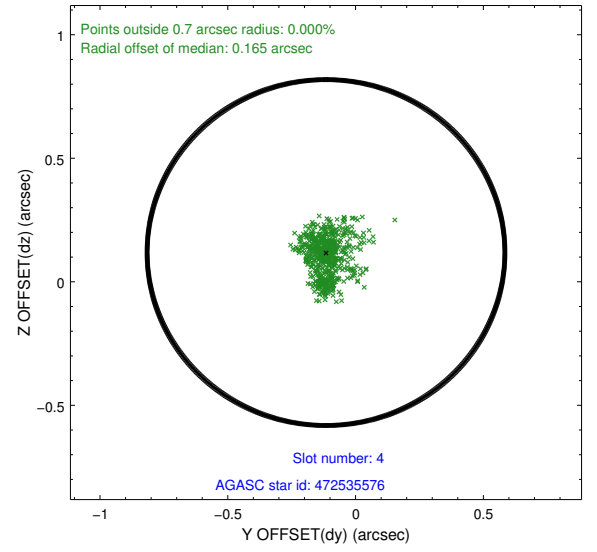
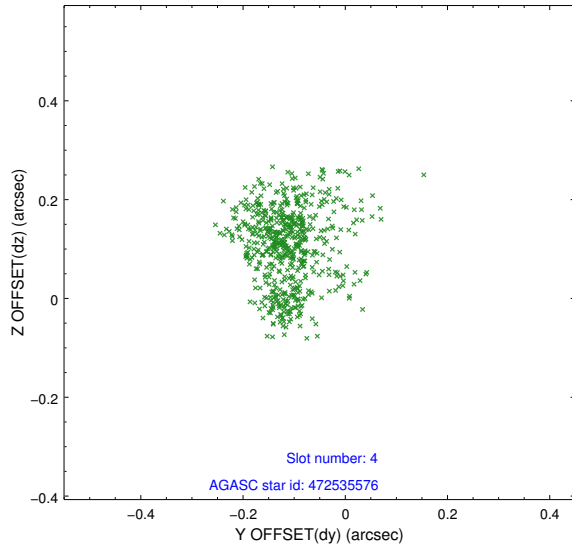
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	290	-0.216	-0.201	0.005	0.009	0.000000	0.000000	-786.84	-1308.37
1	FID		HRC-I-2	7.06	290	0.153	0.016	0.007	0.011	0.000000	0.000000	823.44	-1314.39
2	FID		HRC-I-4	7.03	290	0.178	0.093	0.006	0.011	0.000000	0.000000	1259.40	989.37
3	GUIDE	used	472533912	9.14	577	0.105	0.139	0.171	0.265	331.791136	46.368695	410.42	-1771.60
4	GUIDE	used	472535576	7.87	580	-0.116	0.118	0.107	0.167	331.438373	46.291802	1311.65	-1960.21
5	GUIDE	used	472536328	8.14	580	0.005	0.252	0.112	0.190	331.496671	46.454831	900.06	-2401.56
6	GUIDE	used	472655152	9.42	576	0.228	-0.241	0.190	0.392	332.504239	45.862991	-271.15	676.47
7	GUIDE	used	472523760	8.24	579	-0.259	-0.255	0.101	0.150	331.645363	45.403260	2418.59	1089.01

2.4 Star Slots

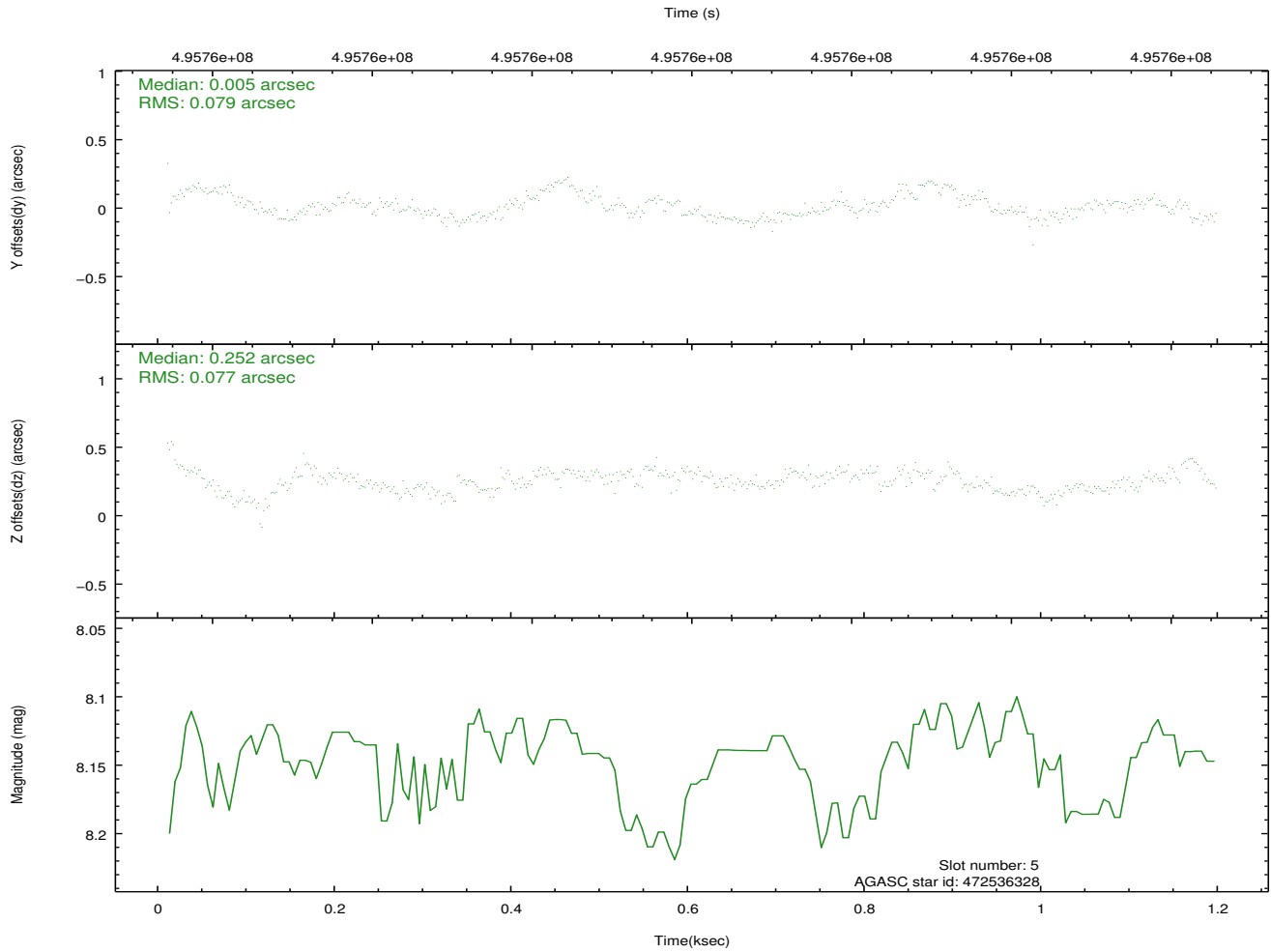
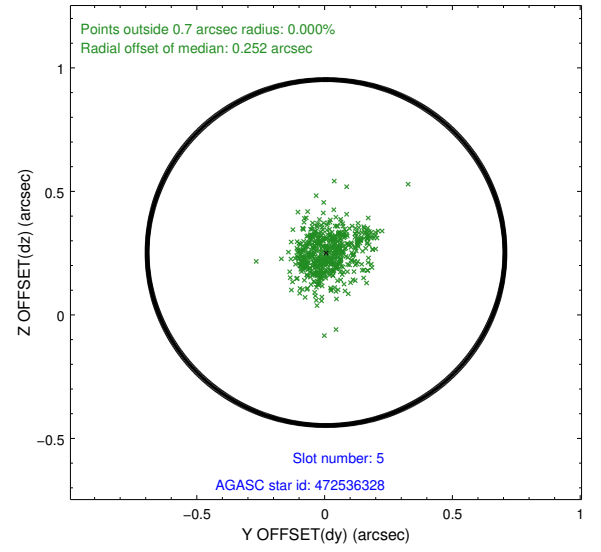
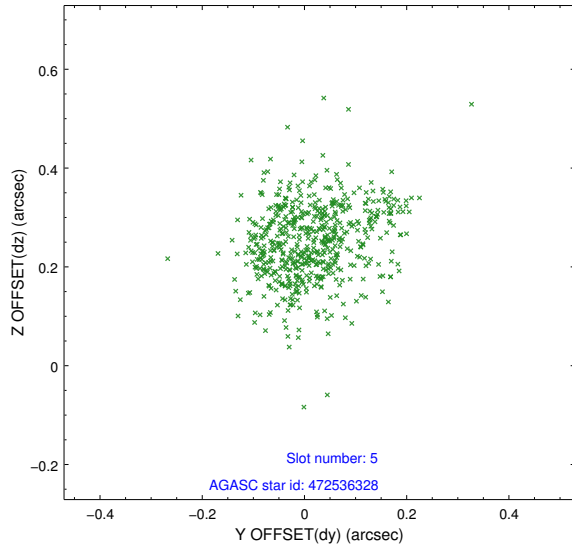
2.4.1 Slot 3



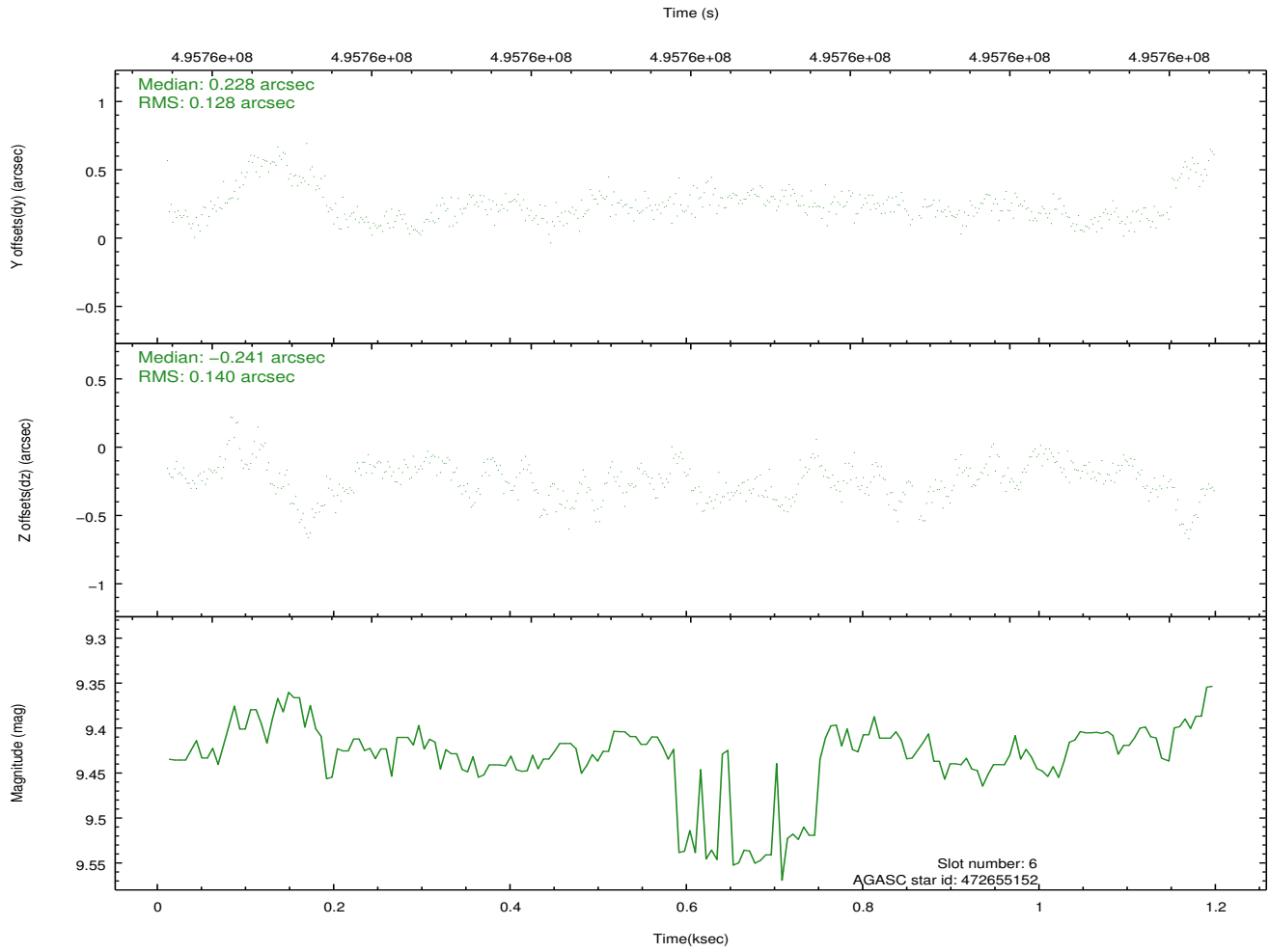
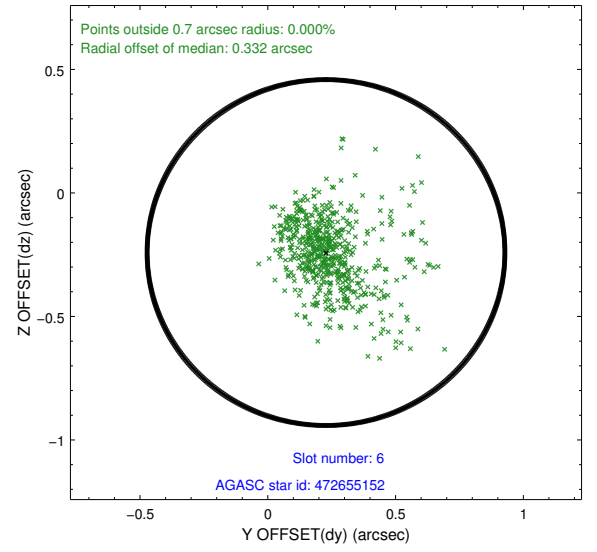
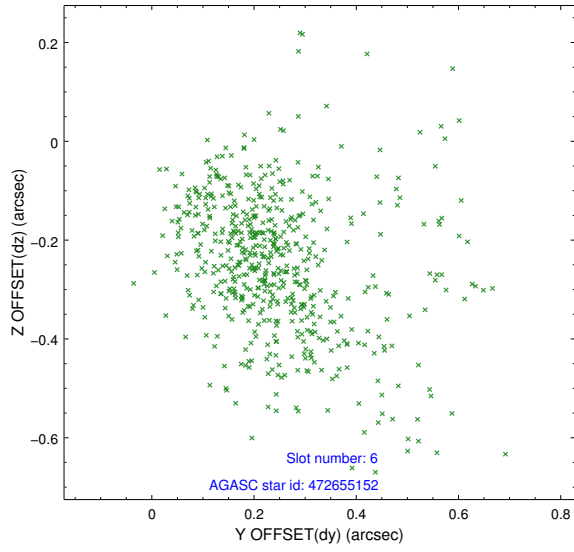
2.4.2 Slot 4



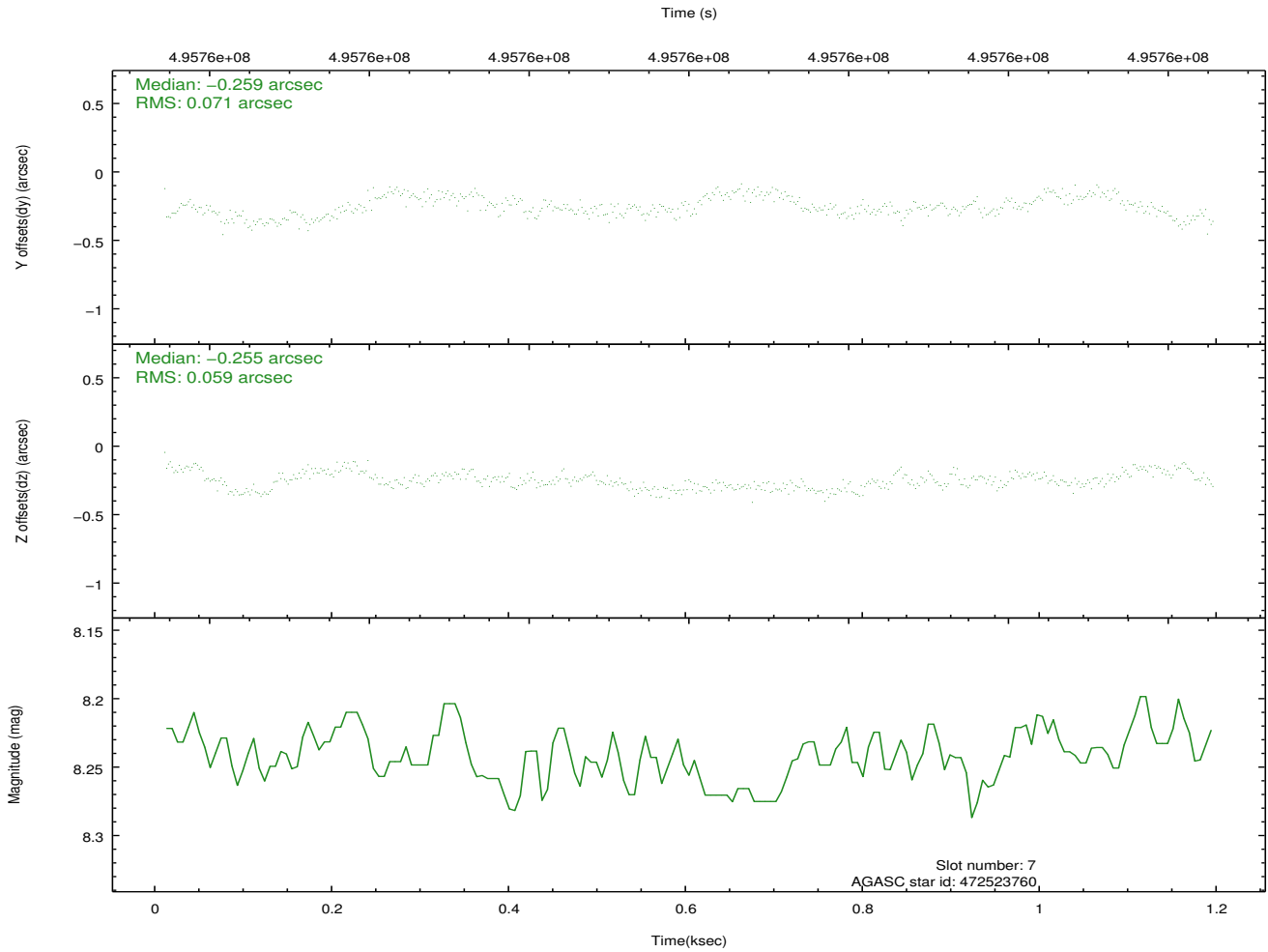
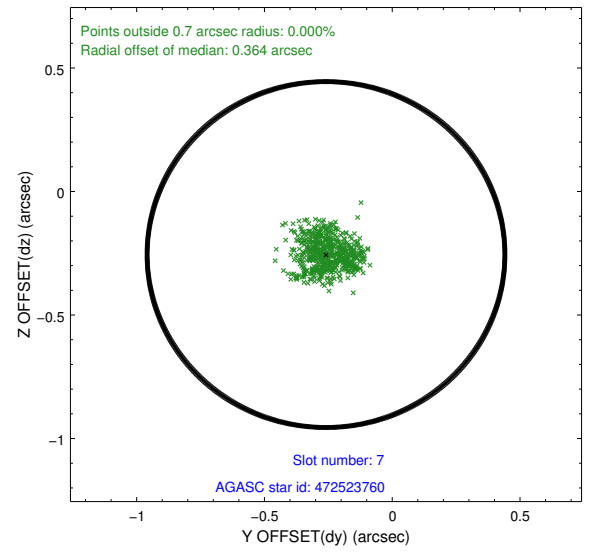
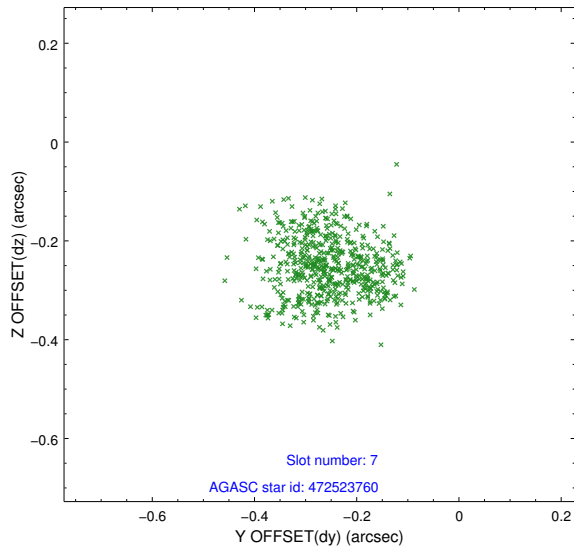
2.4.3 Slot 5



2.4.4 Slot 6

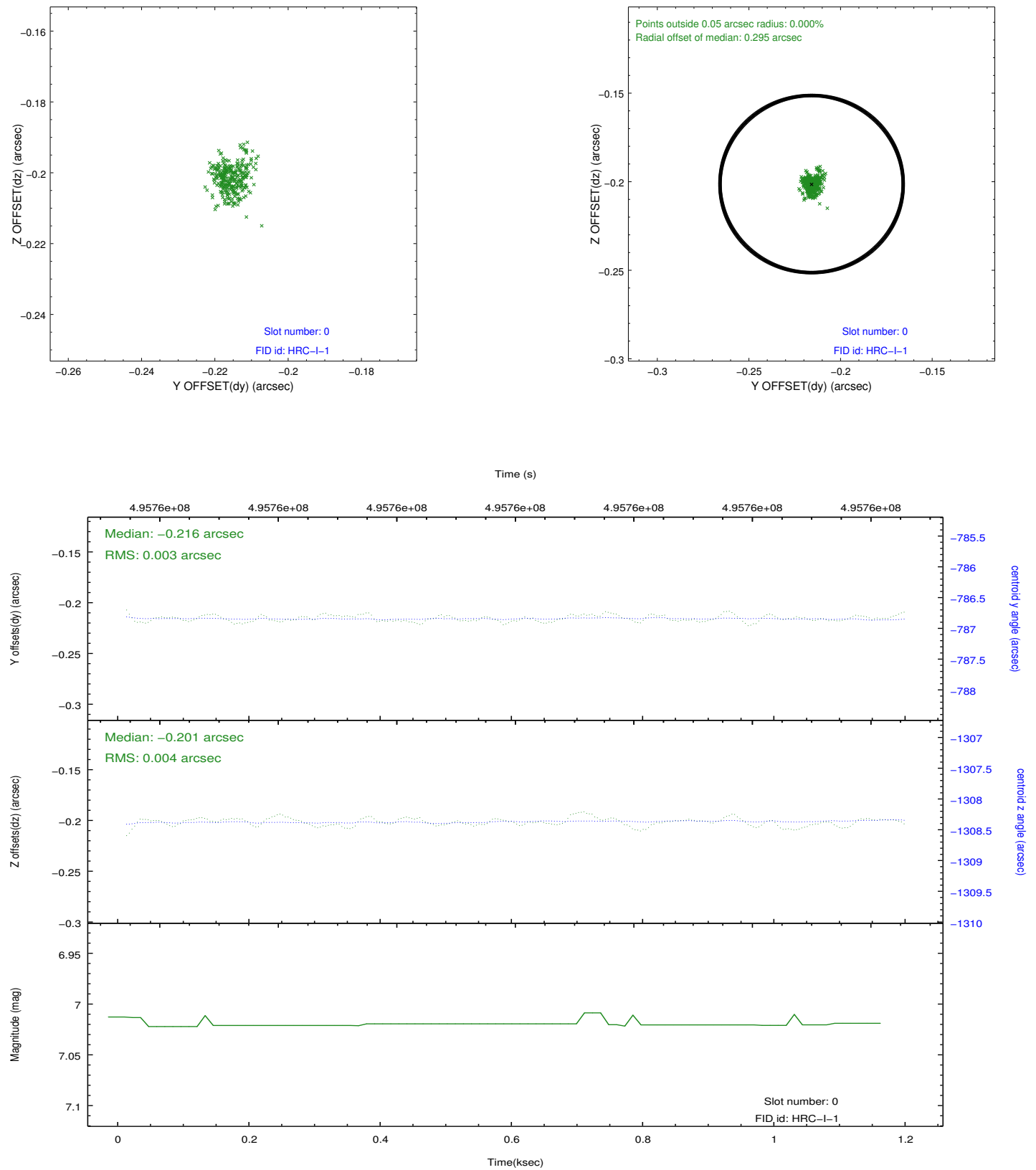


2.4.5 Slot 7

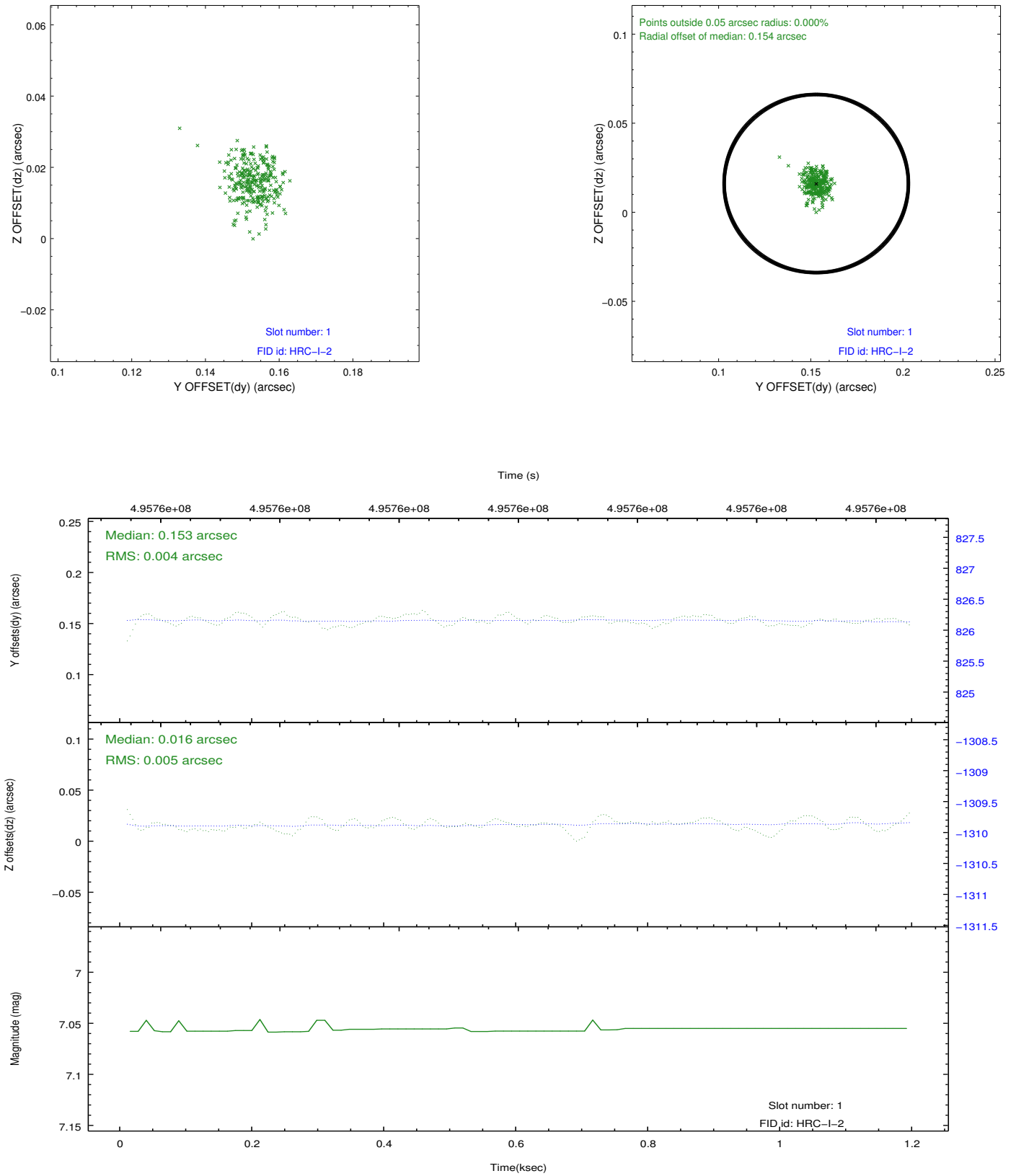


2.5 FID Slots

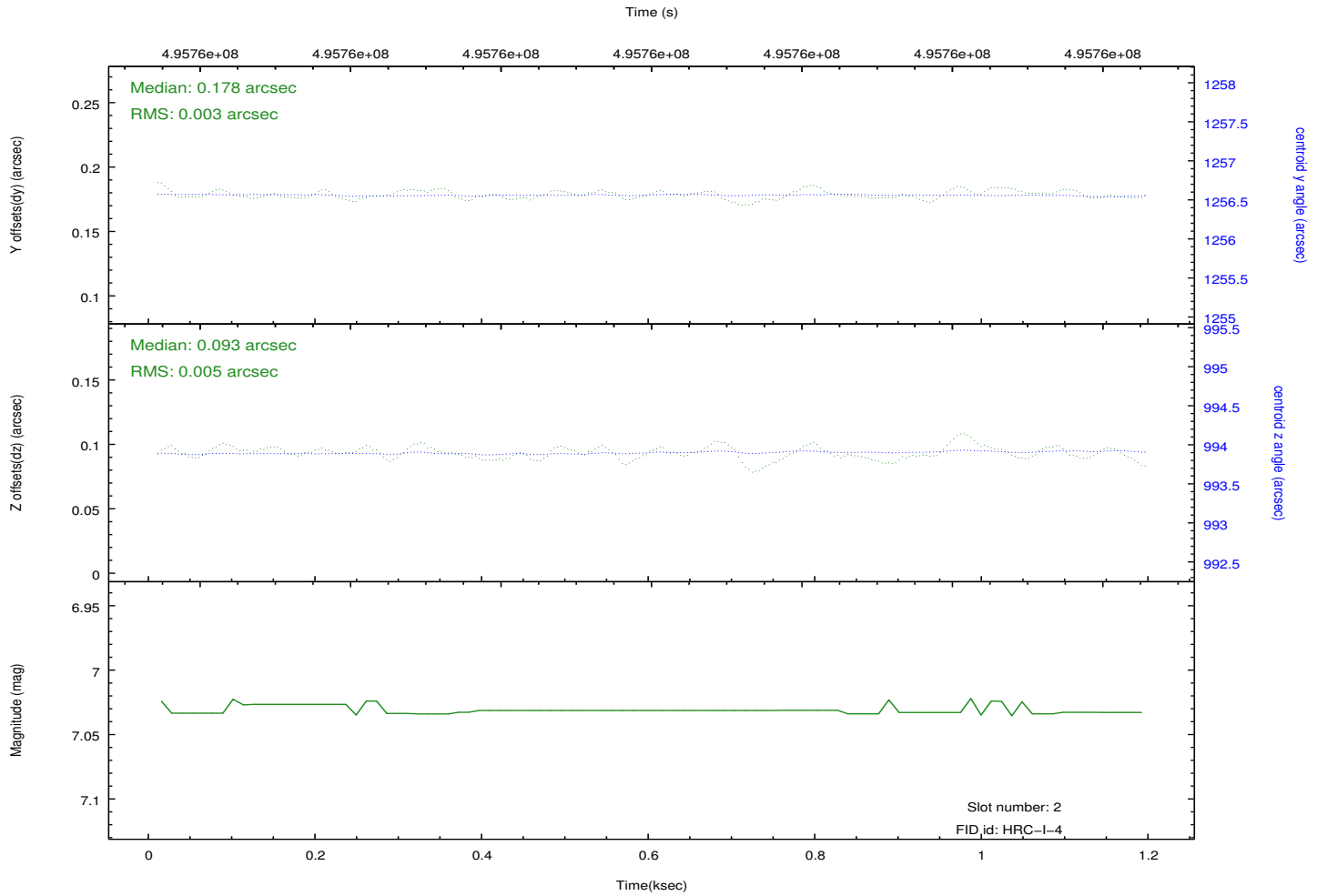
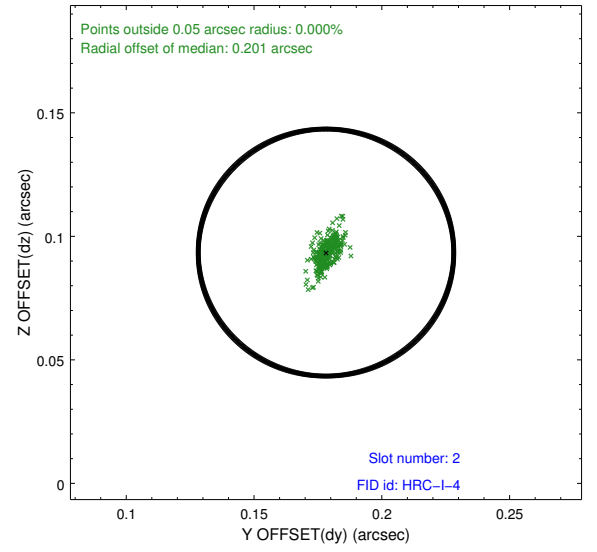
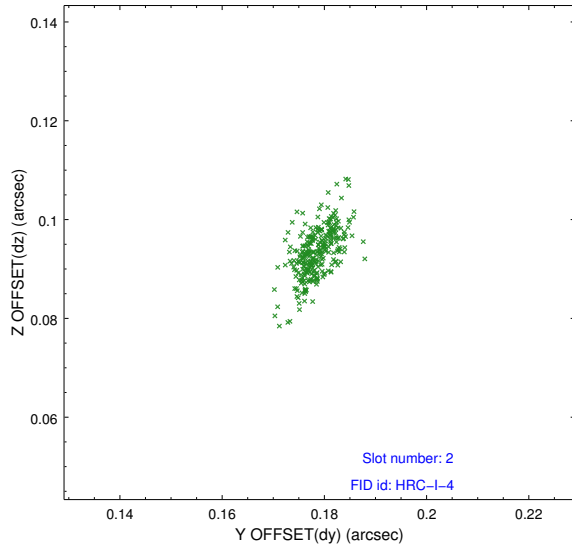
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1861813147664

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.