

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15410 - L2 Version 2
Chandra X-Ray Center

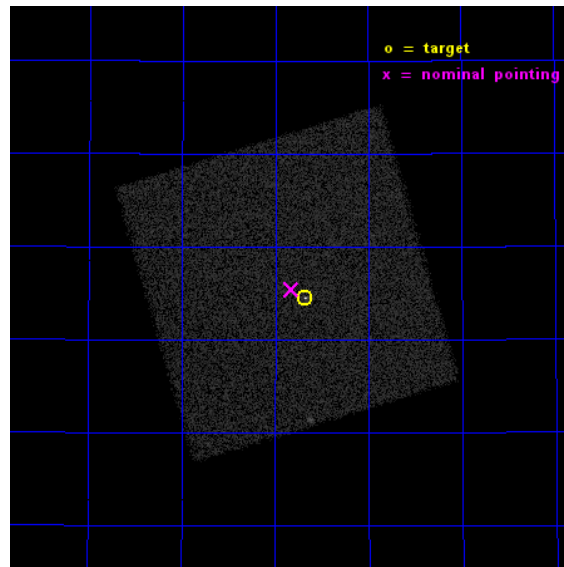
L2 Processing Date : Dec 6 2014

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1 Front

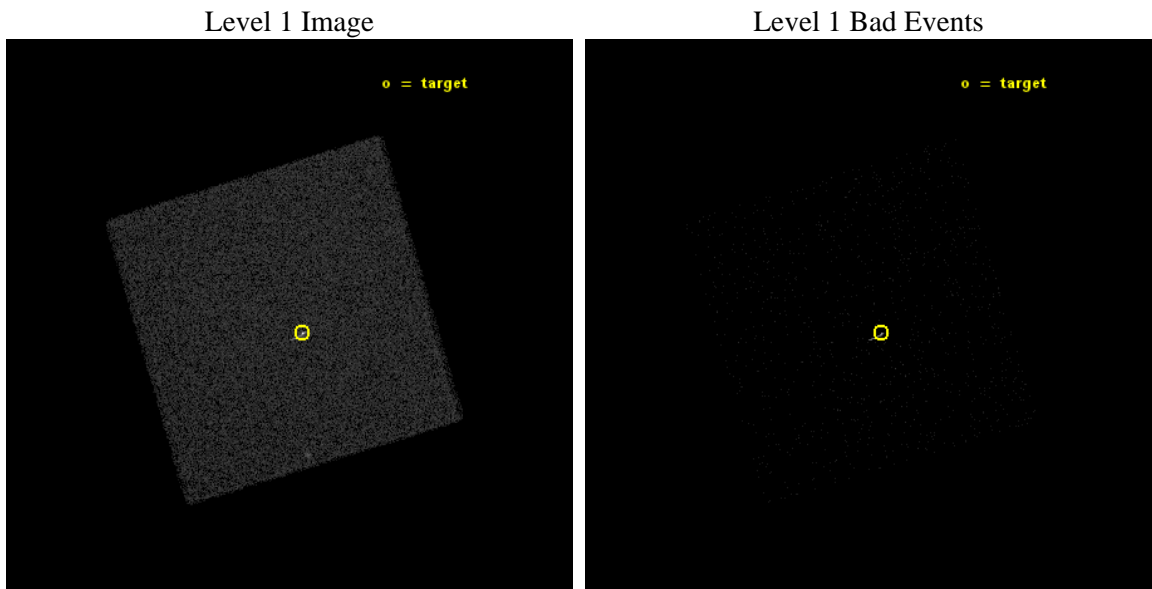
seq_num	291089	Sequence number
obs_id	15410	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20651722898	Nominal RA [deg]
dec_nom	45.757201022944	Nominal Dec [deg]
roll_nom	208.37038542621	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1184.1313146949	[s]
livetime	1174.8480413543	Ontime multiplied by DTCOR
l2events	73859	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	1184.1313146949	[s]
caldbver	4.6.4	 	l1events	124841	Number of level 1 events
date	2014-12-06T15:37:15	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

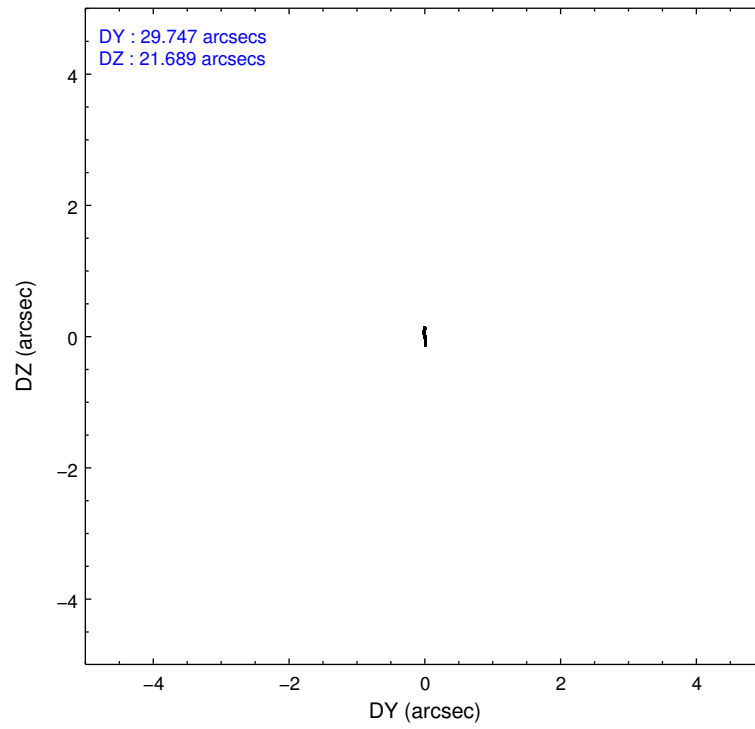
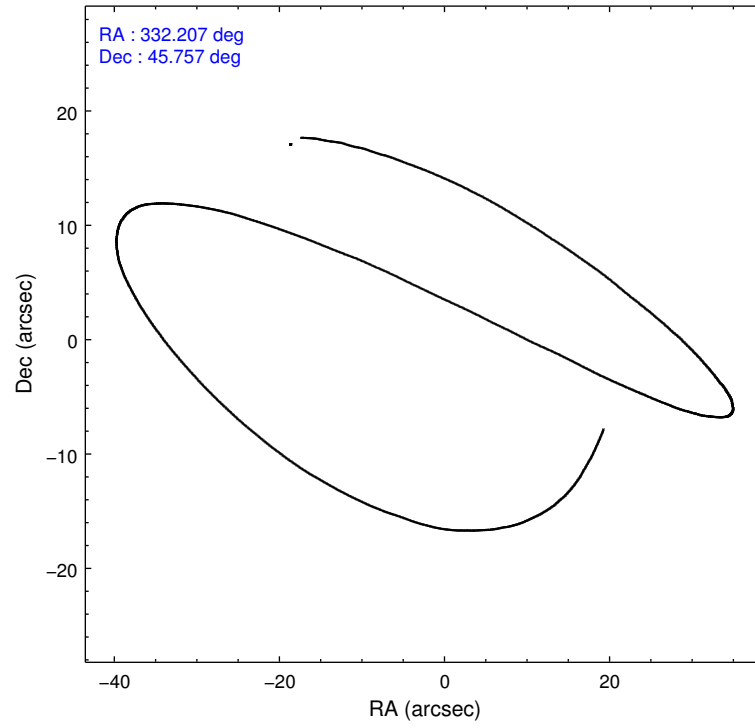
	segment 0
level 1 events	124841
rejected events	26724
rejected %	21%

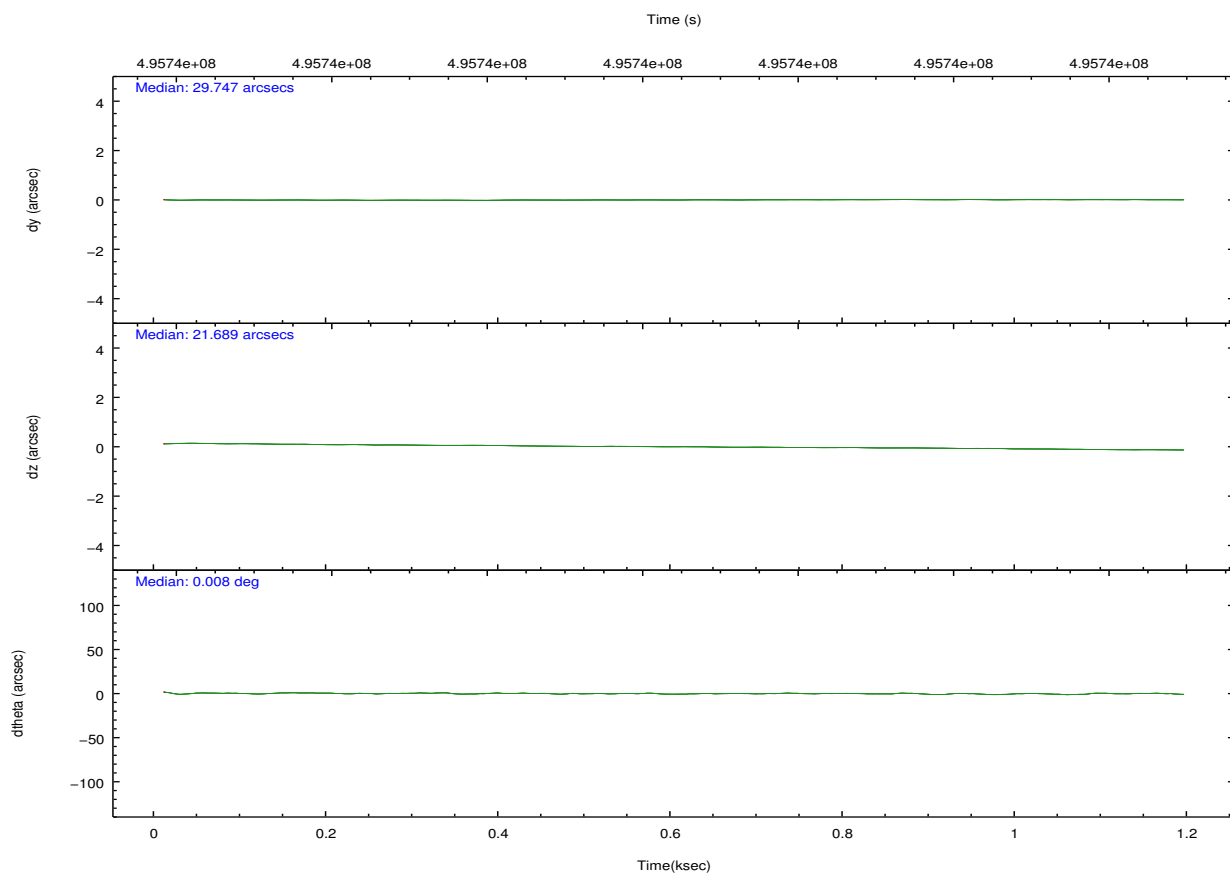
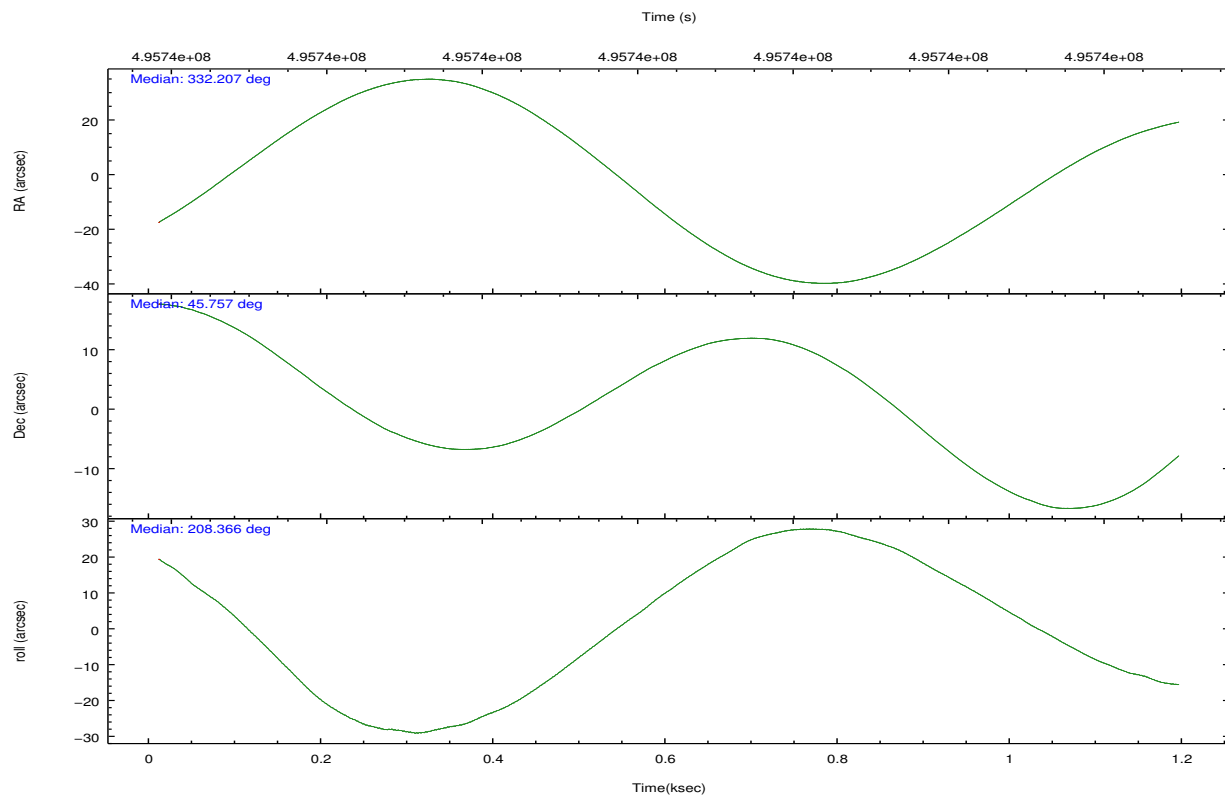
2.2 Compared Parameters

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	332.225651	332.2065172289764
[deg] Pointing Dec	45.781187	45.75720102294422
[deg] Pointing Roll	208.452174	208.3703854262075
[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)	495736644.184000	495736268.41589
Observation start date	2013-09-16T16:36:17	2013-09-16T16:31:08
[s] Observation end time (MET)	495737644.184000	495737778.75347
Observation end date	2013-09-16T16:52:57	2013-09-16T16:56:18

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

2.3 Aspect



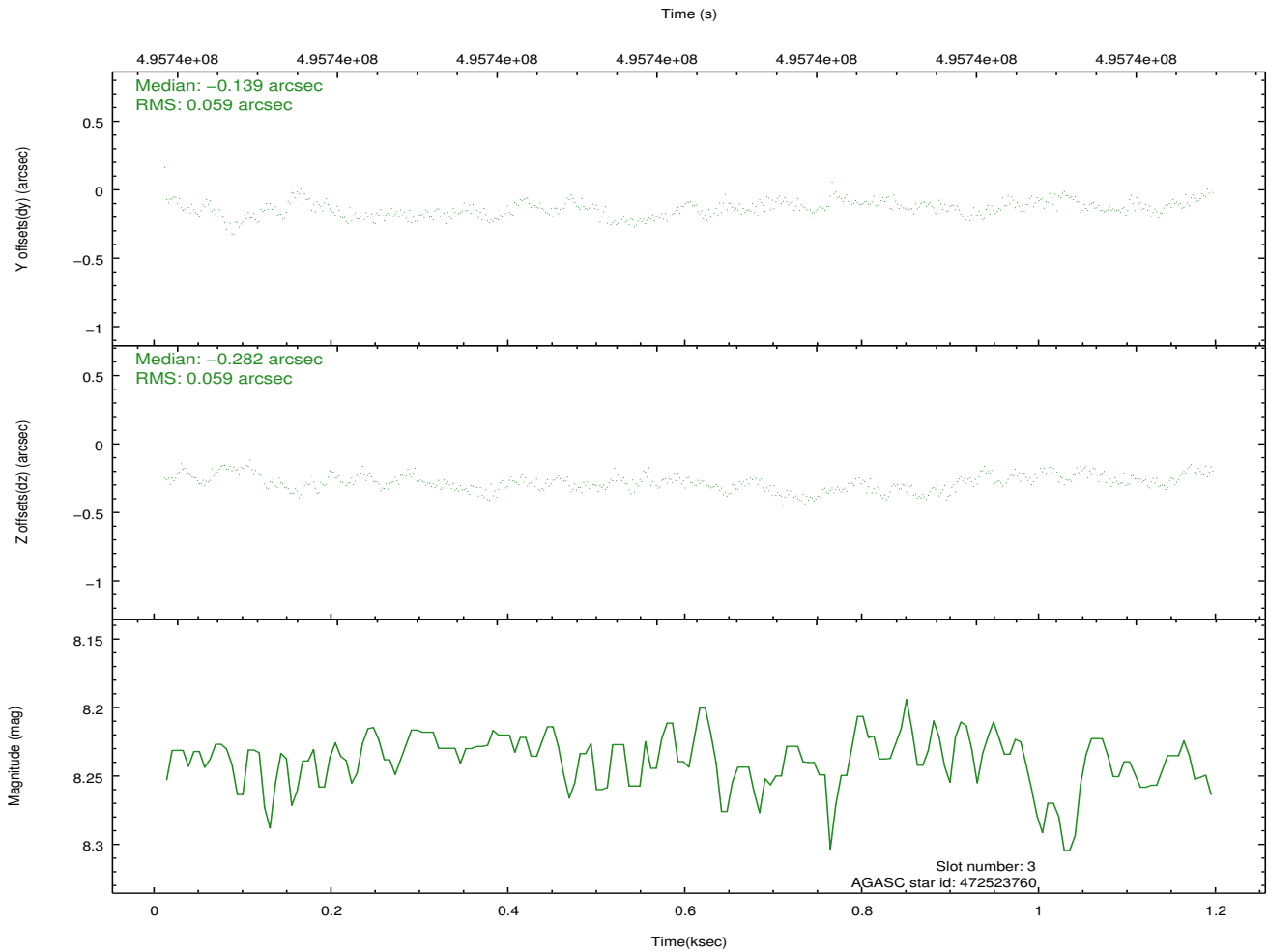
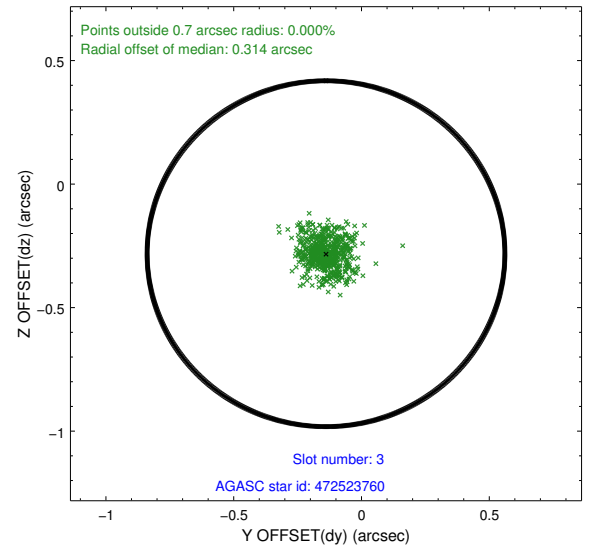
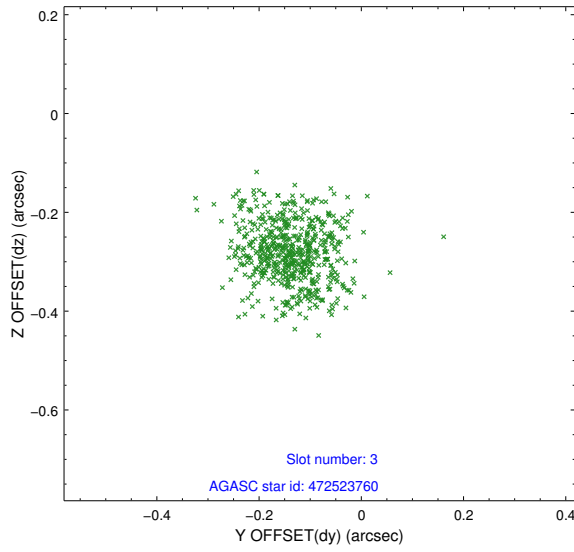


Slot Statistics

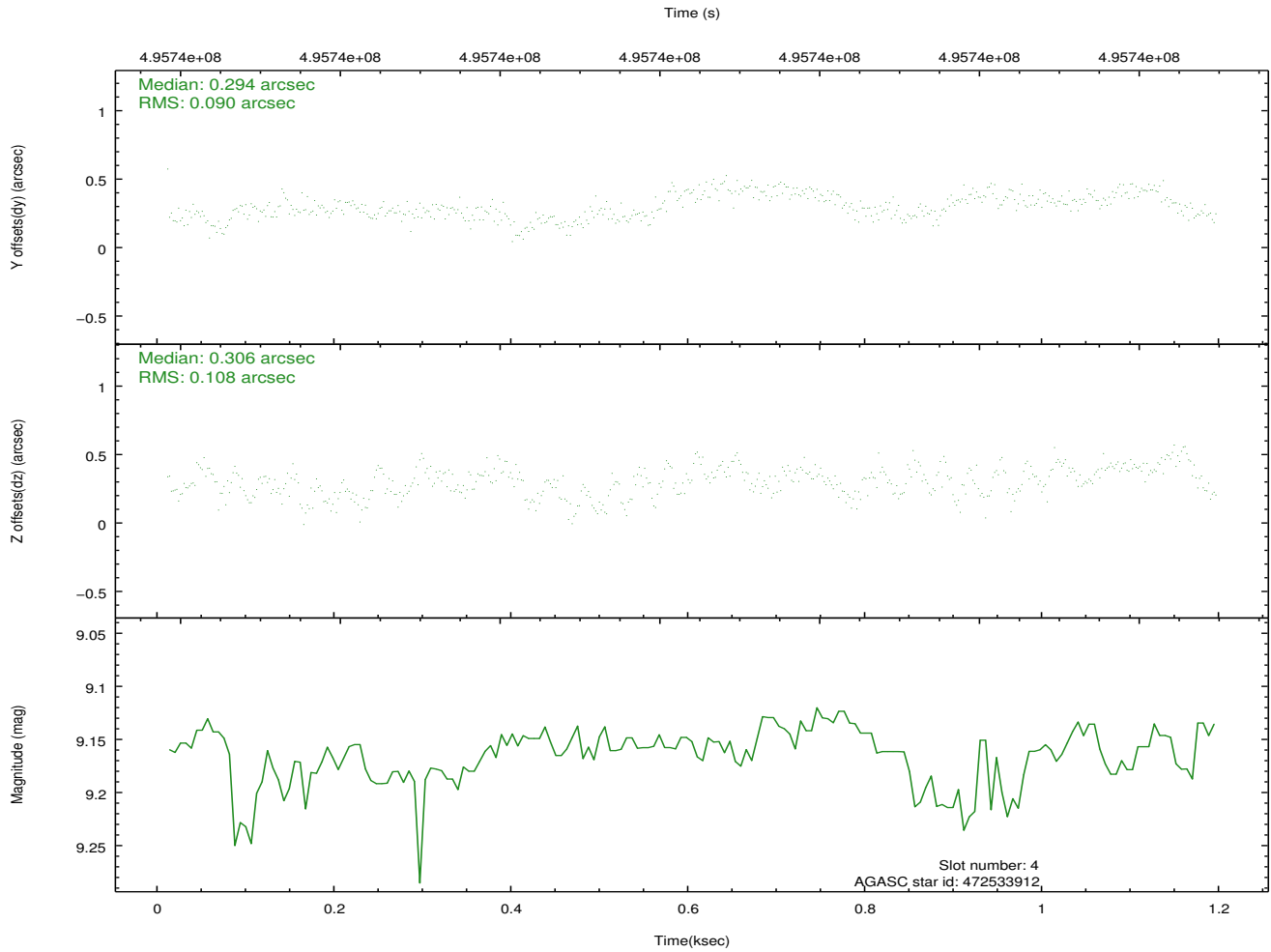
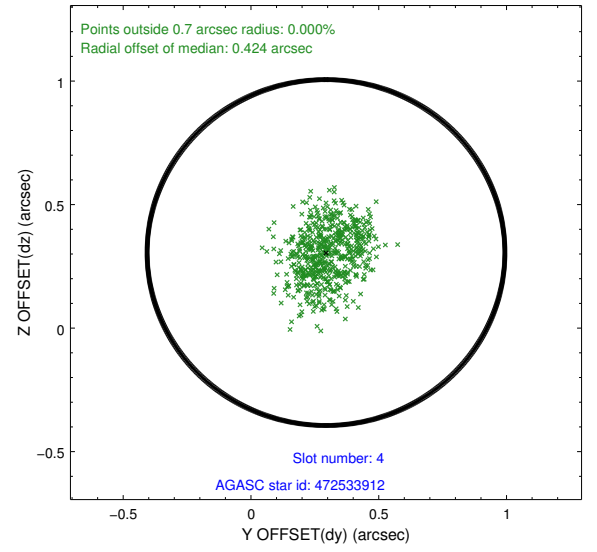
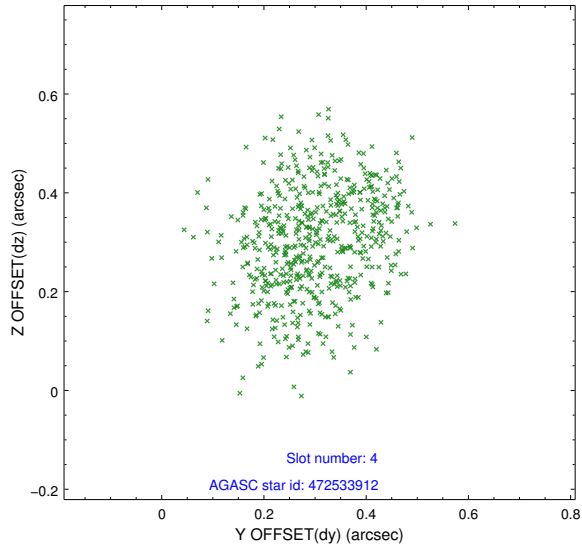
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.06	290	0.066	-0.086	0.006	0.011	0.000000	0.000000	826.77	-1311.62
1	FID		HRC-I-3	7.11	289	-0.229	0.006	0.005	0.010	0.000000	0.000000	-1211.82	990.04
2	FID		HRC-I-4	7.03	290	0.283	-0.006	0.006	0.009	0.000000	0.000000	1252.93	995.62
3	GUIDE	used	472523760	8.24	579	-0.139	-0.282	0.092	0.140	331.645363	45.403260	1935.94	490.66
4	GUIDE	used	472533912	9.16	579	0.294	0.306	0.152	0.232	331.791136	46.368695	-55.51	-2377.23
5	GUIDE	used	472655152	9.41	571	0.198	-0.211	0.190	0.276	332.504239	45.862991	-754.16	66.32
6	GUIDE	used	472665256	9.01	579	0.323	0.355	0.103	0.169	332.808125	46.195041	-1988.74	-624.74
7	GUIDE	used	472525528	6.66	578	-0.667	-0.176	0.090	0.149	331.551102	45.248694	2409.56	861.61

2.4 Star Slots

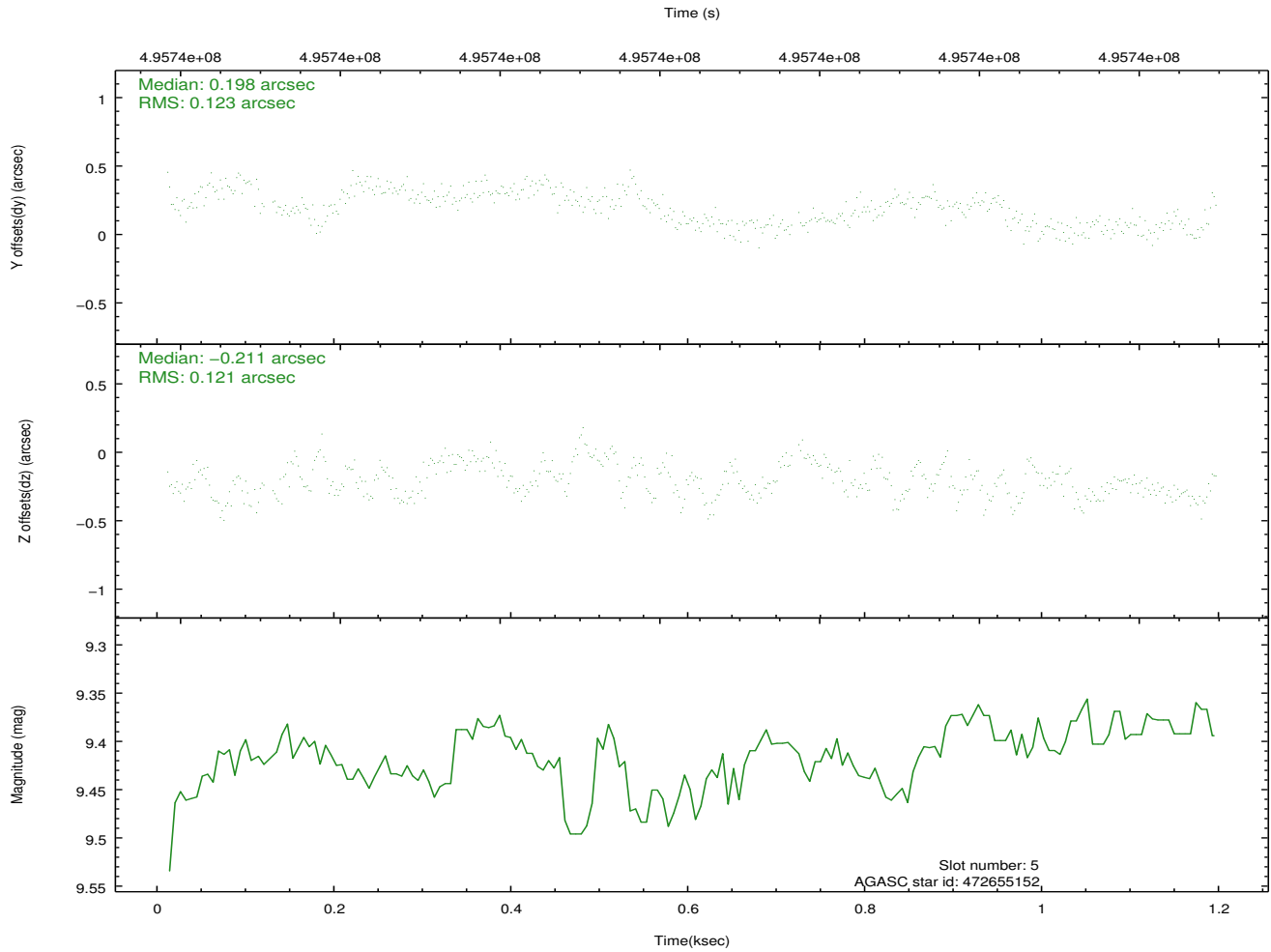
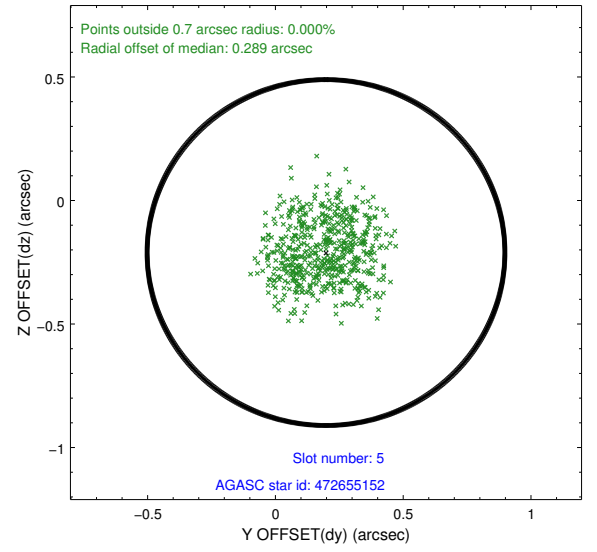
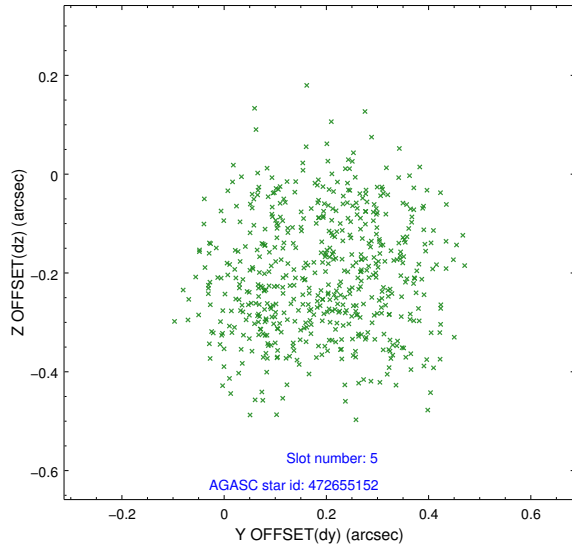
2.4.1 Slot 3



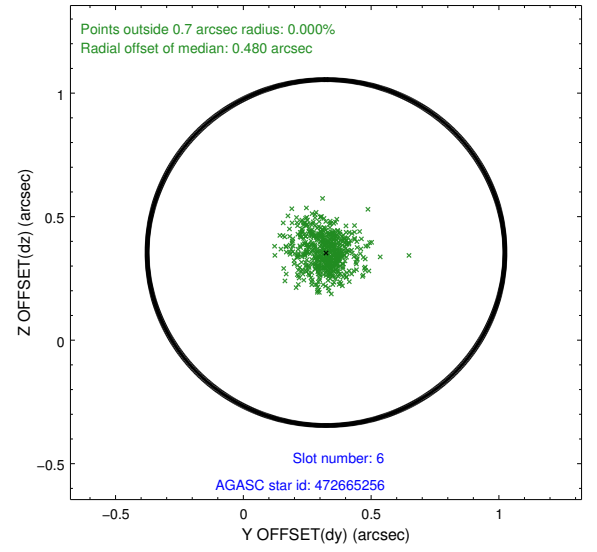
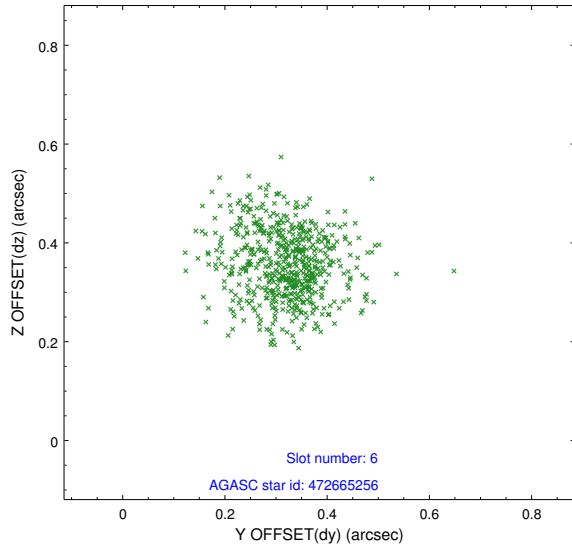
2.4.2 Slot 4



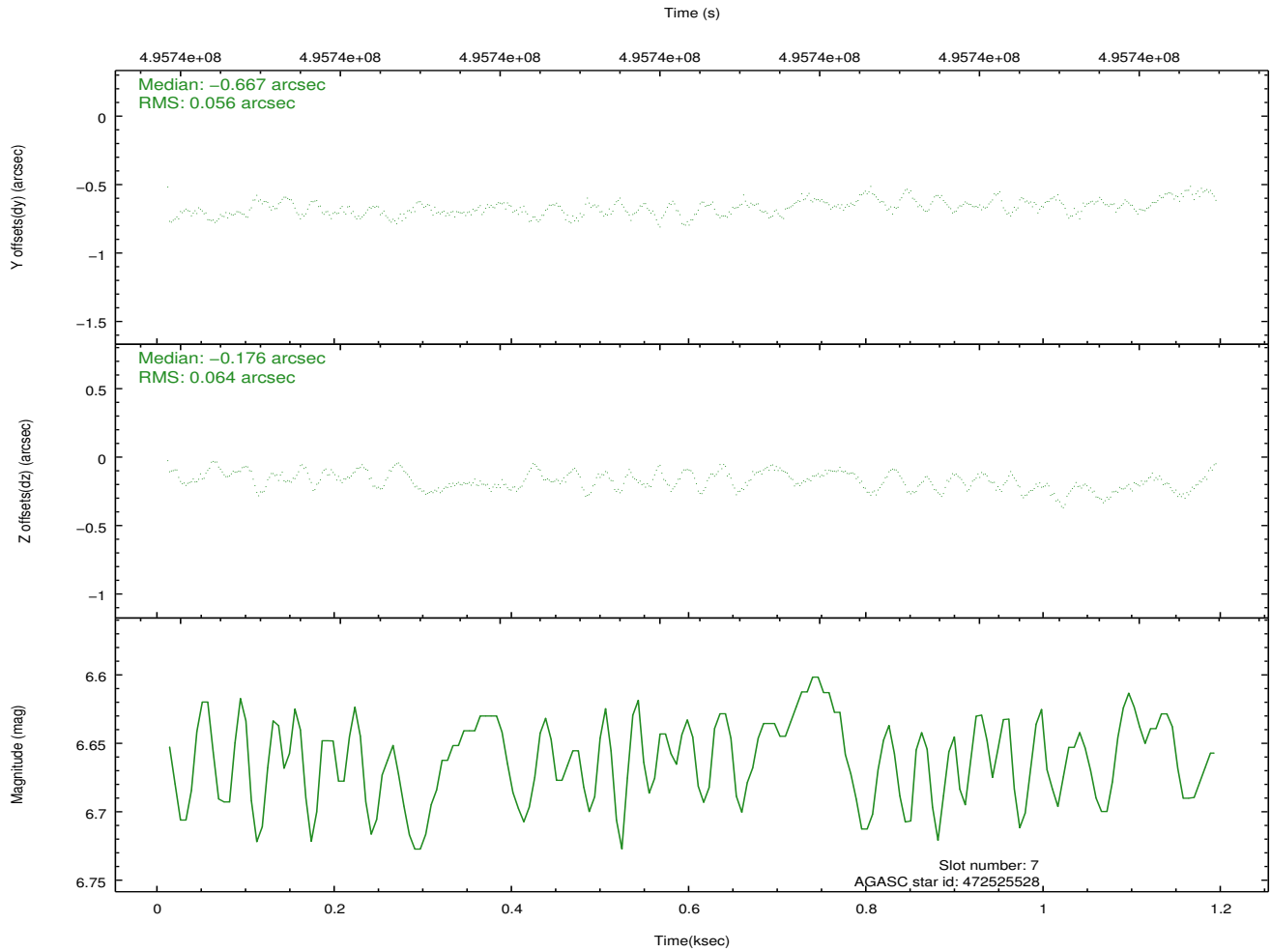
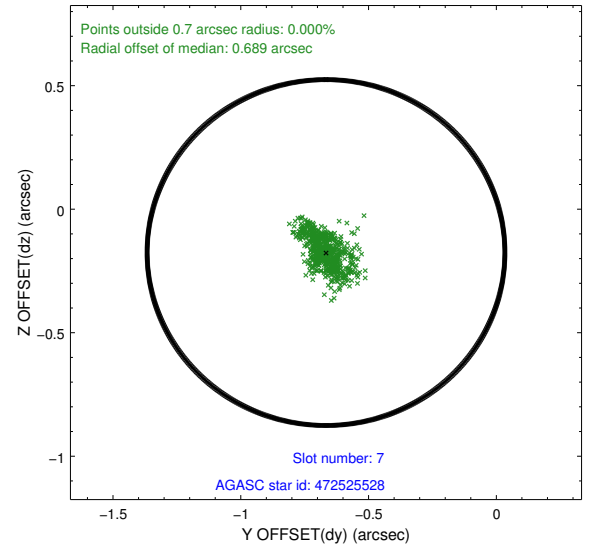
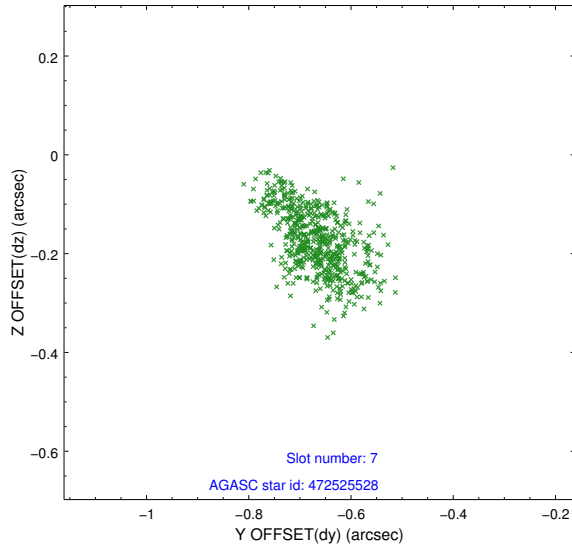
2.4.3 Slot 5



2.4.4 Slot 6

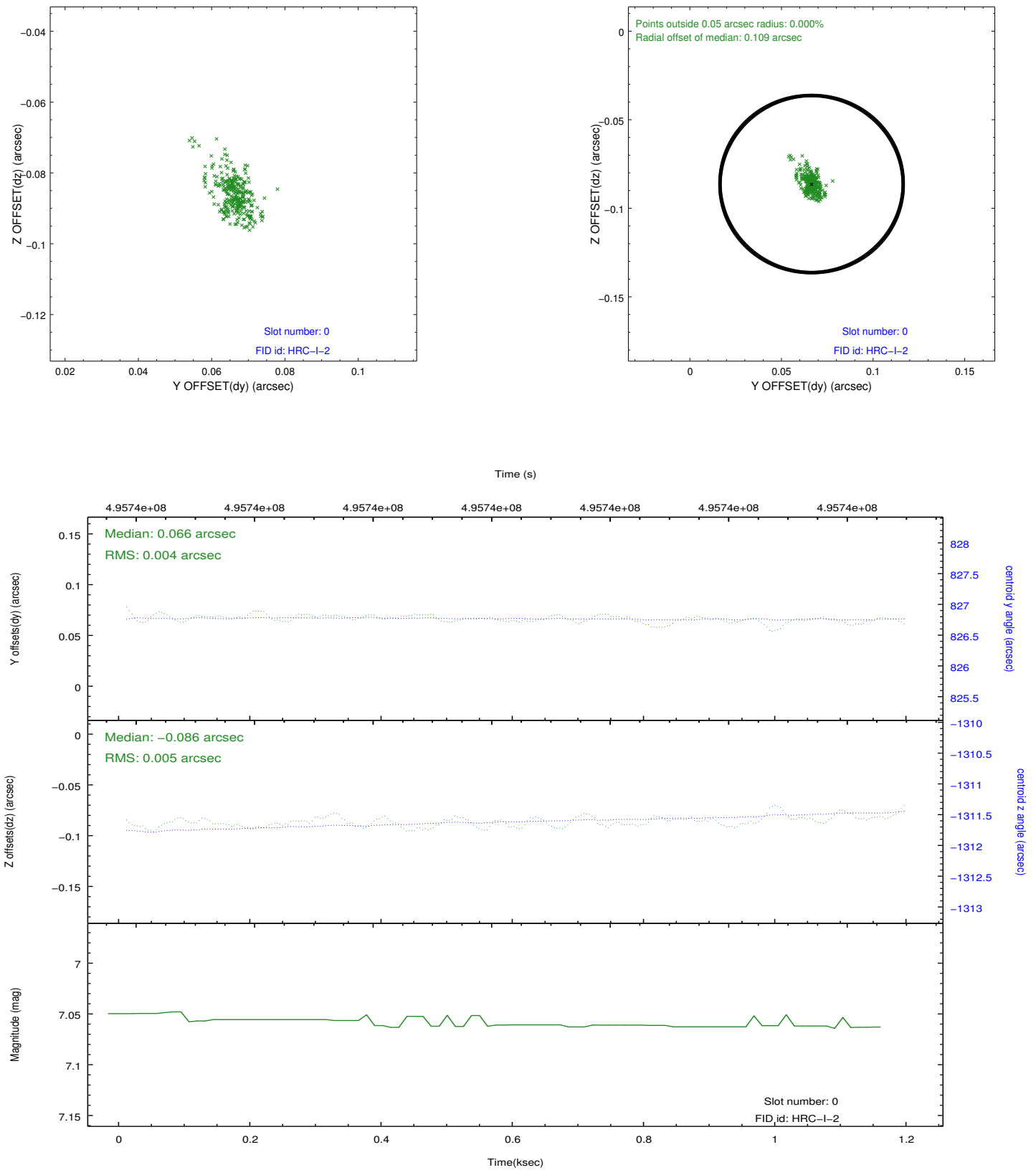


2.4.5 Slot 7

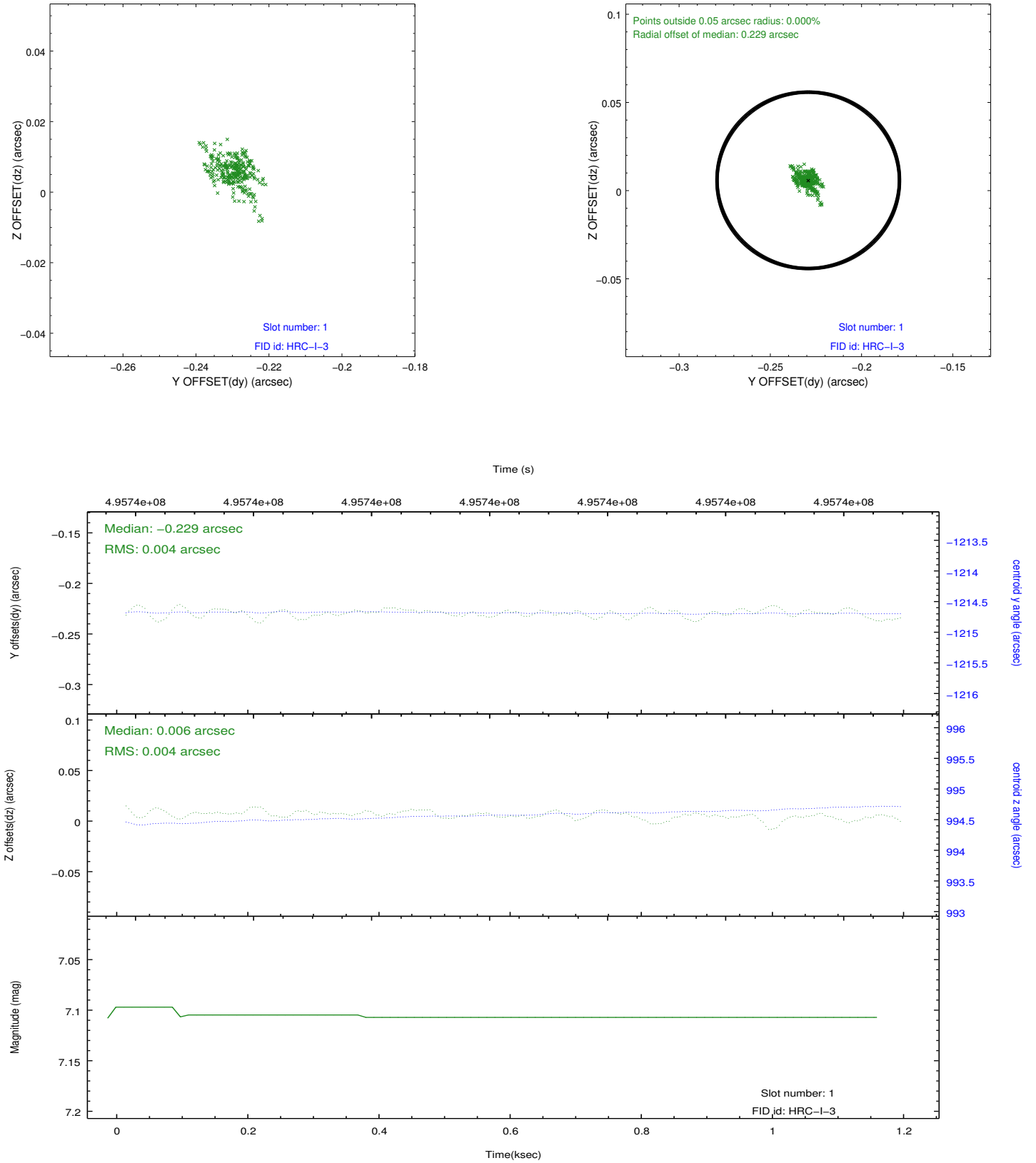


2.5 FID Slots

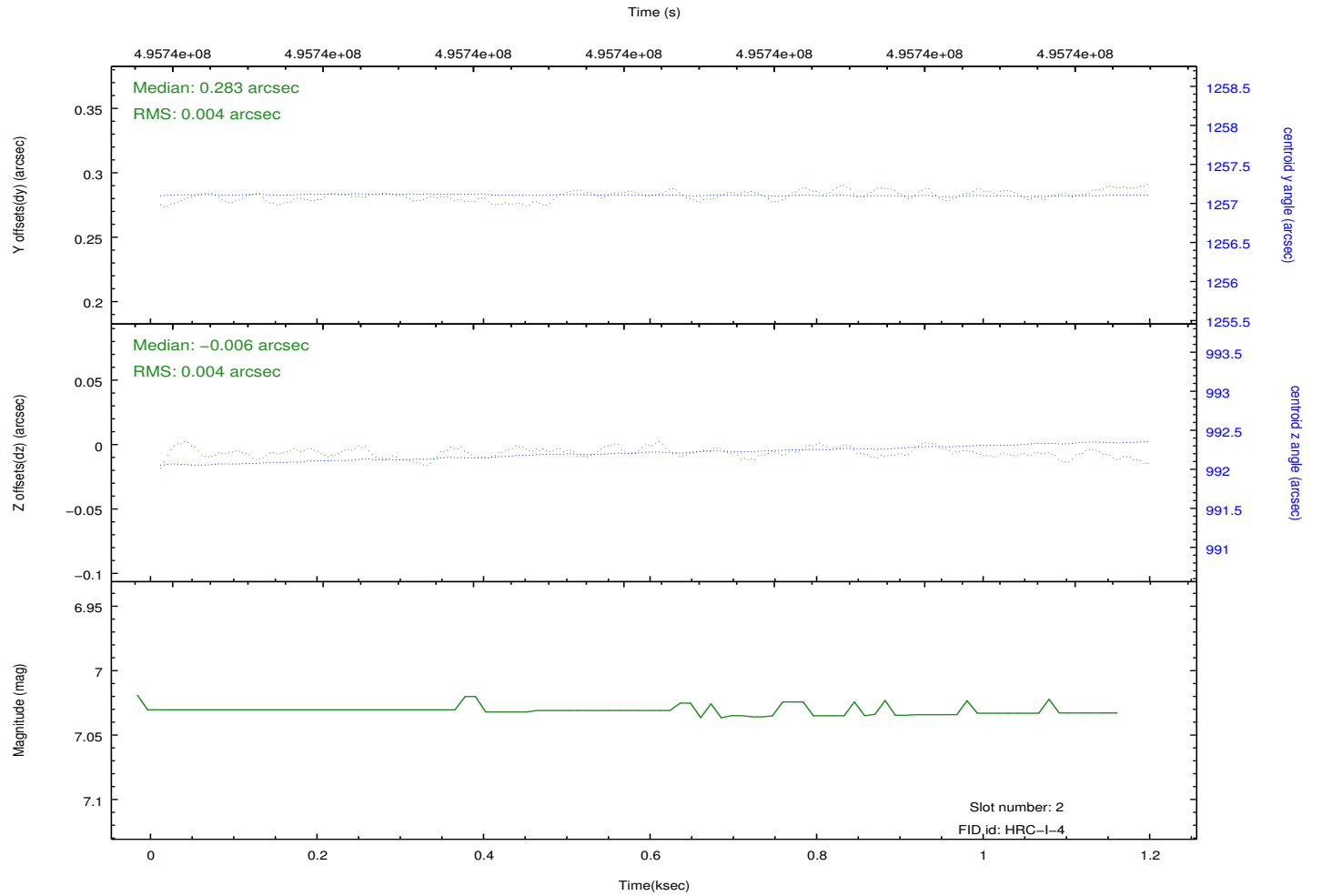
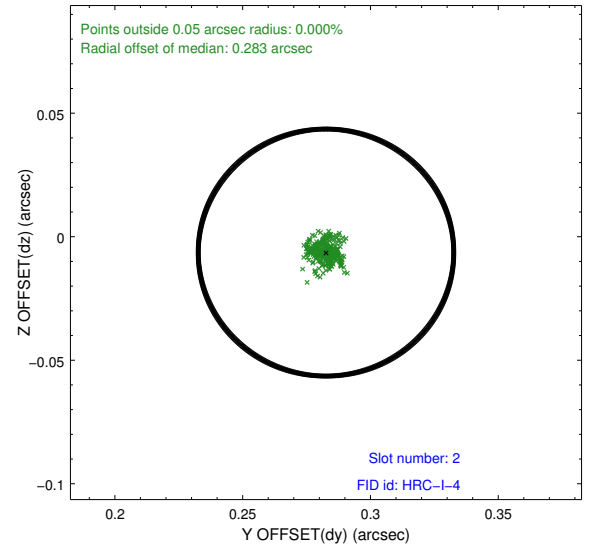
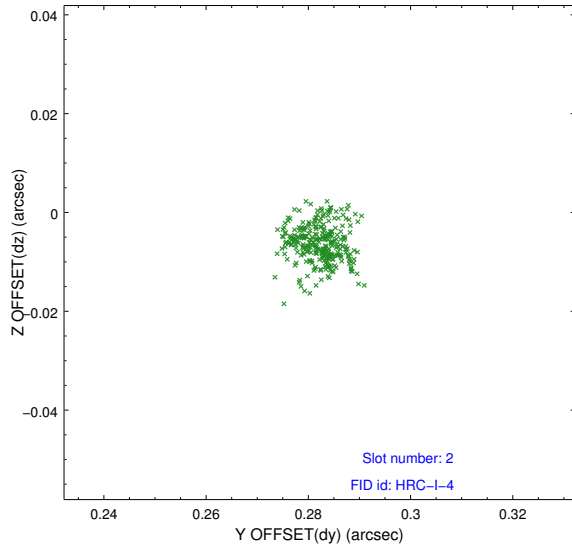
2.5.1 Slot 0



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	1.1841313146949

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.