

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15427 - L2 Version 2
Chandra X-Ray Center

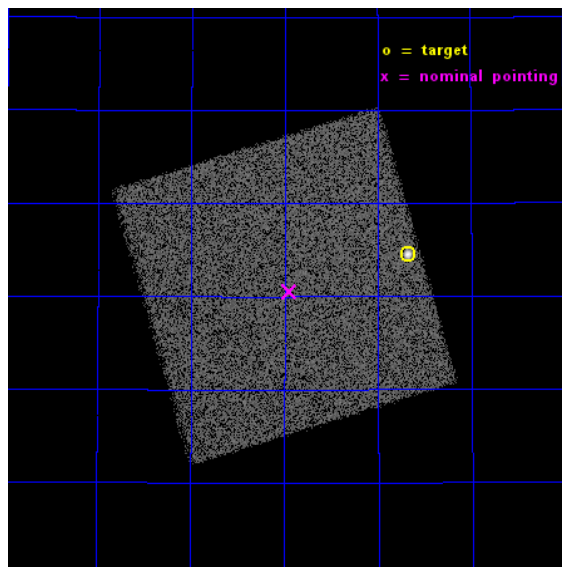
L2 Processing Date : Dec 6 2014

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1 Front

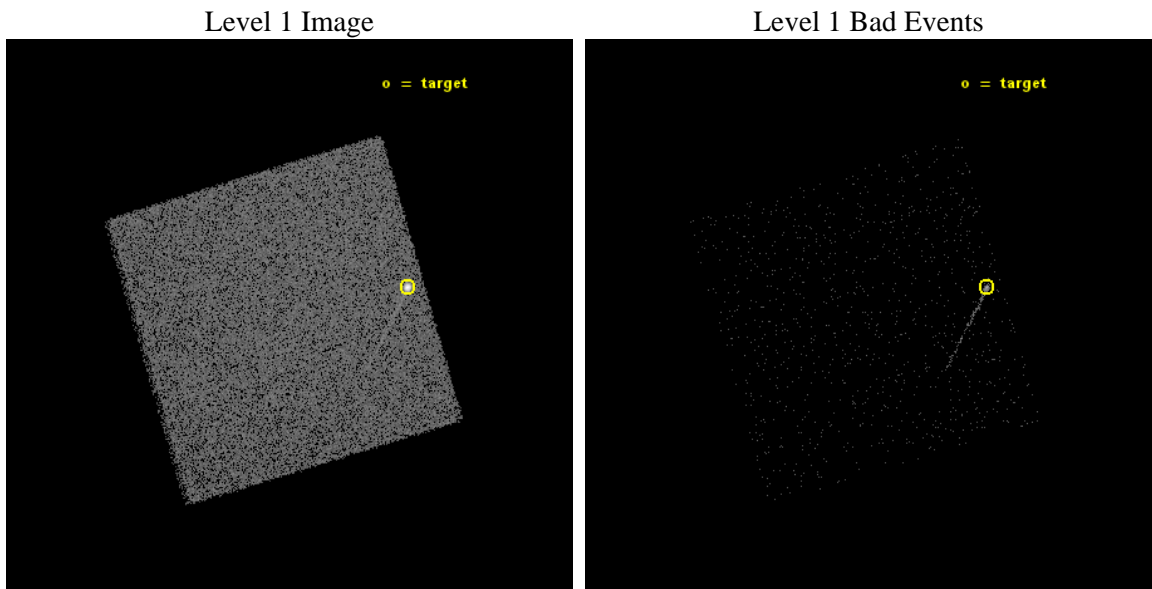
seq_num	291106	Sequence number
obs_id	15427	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.48662169351	Nominal RA [deg]
dec_nom	45.676088131666	Nominal Dec [deg]
roll_nom	208.4278464903	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1181.8250645399	[s]
livetime	1172.7549911759	Ontime multiplied by DTCOR
l2events	71234	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	1181.8250645399	[s]
caldbver	4.6.4	 	l1events	121264	Number of level 1 events
date	2014-12-06T11:25:56	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

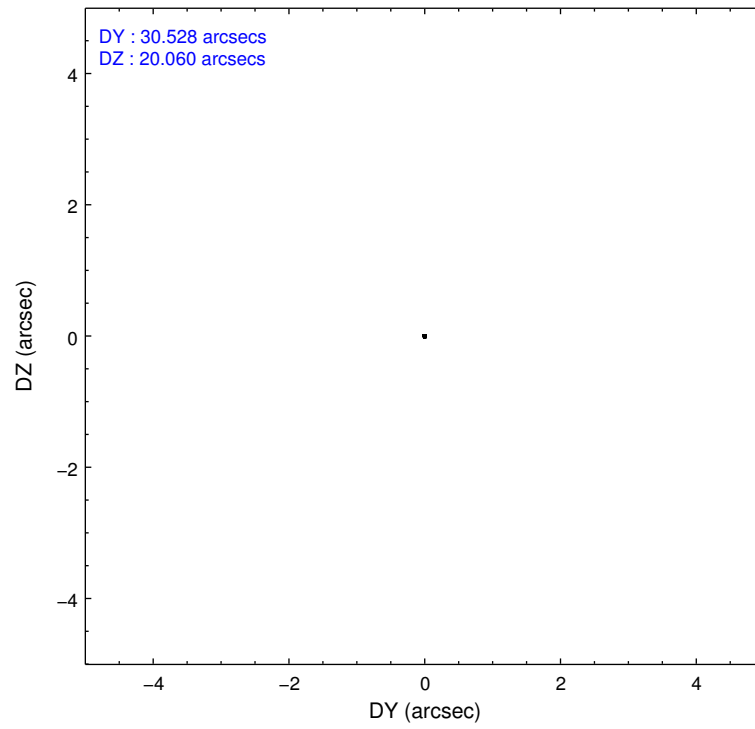
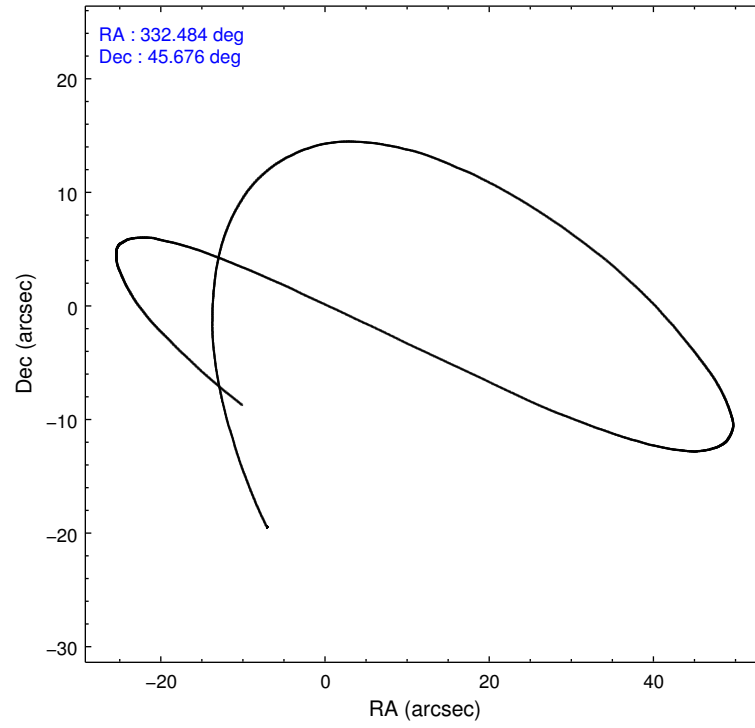
	segment 0
level 1 events	121264
rejected events	26152
rejected %	21%

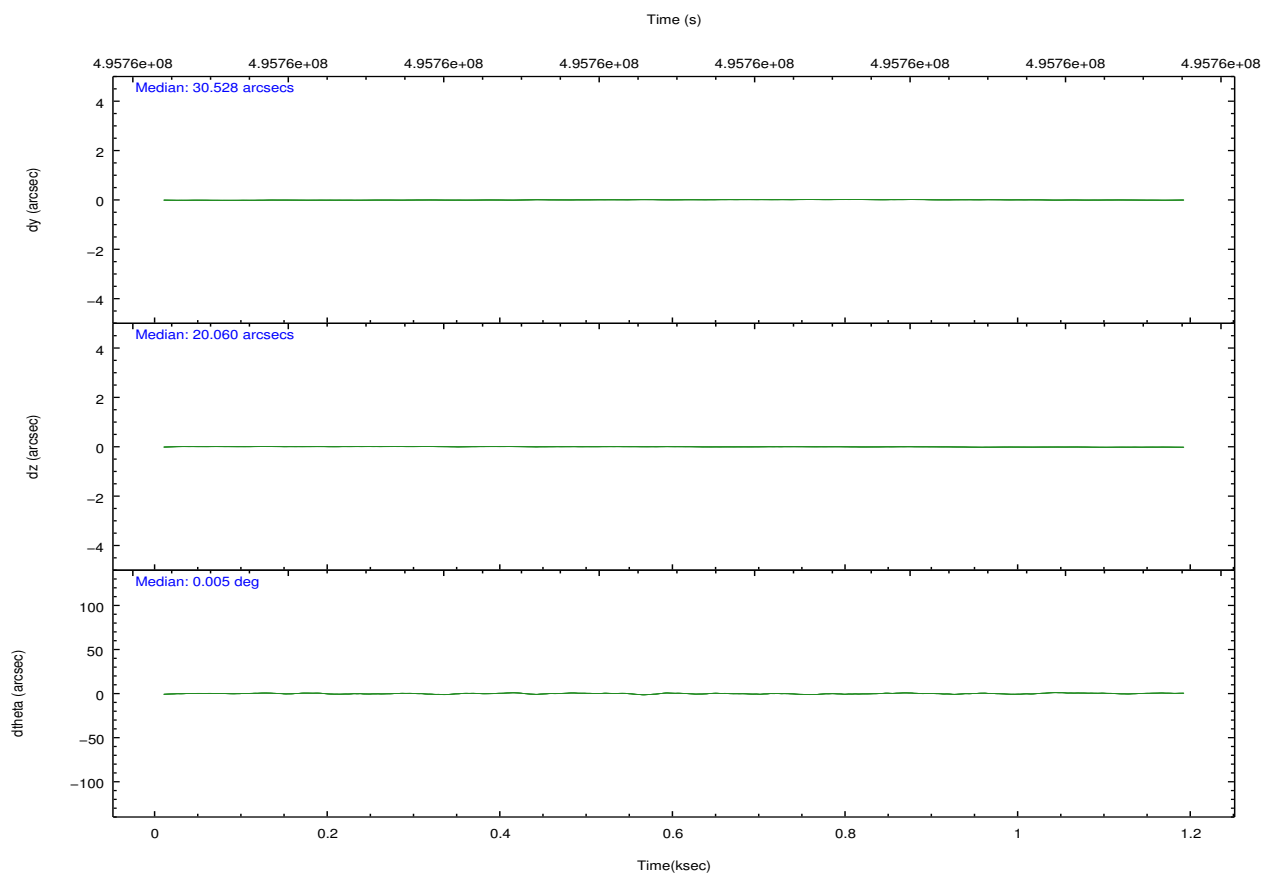
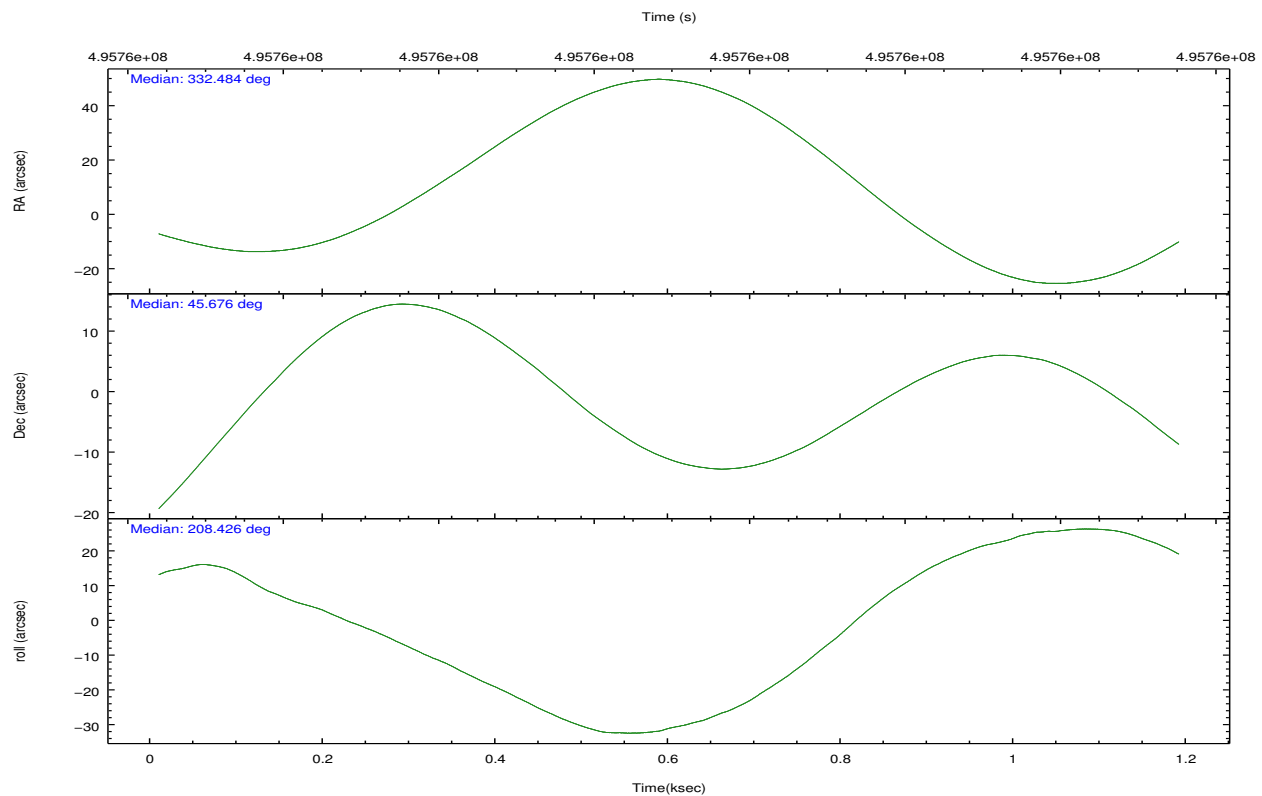
2.2 Compared Parameters

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	332.507466	332.4866216935122
[deg] Pointing Dec	45.698877	45.67608813166579
[deg] Pointing Roll	208.508504	208.4278464903025
[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)	495762496.184000	495762120.4548
Observation start date	2013-09-16T23:47:09	2013-09-16T23:42:00
[s] Observation end time (MET)	495763496.184000	495763630.27988
Observation end date	2013-09-17T00:03:49	2013-09-17T00:07:10

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

2.3 Aspect



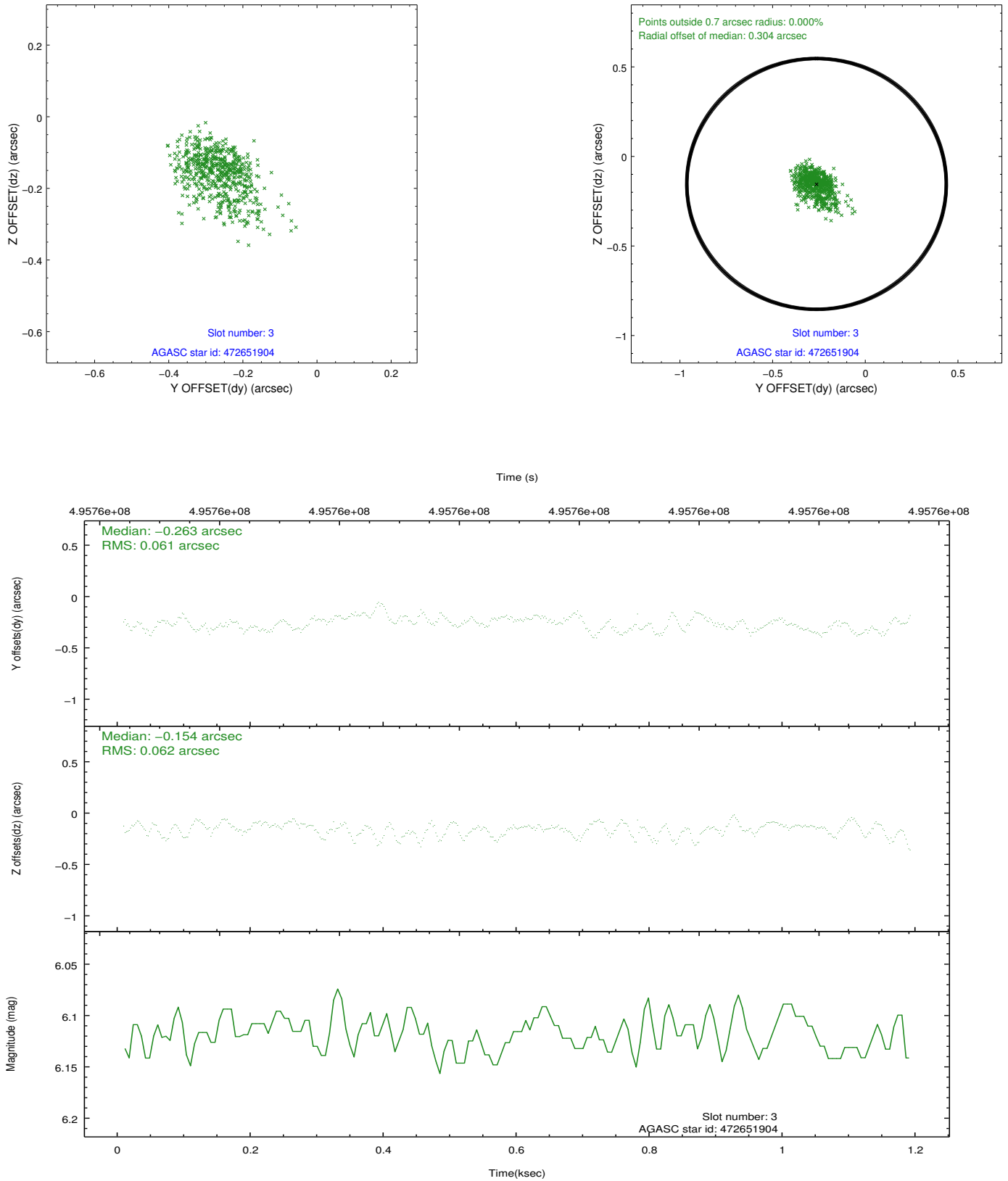


Slot Statistics

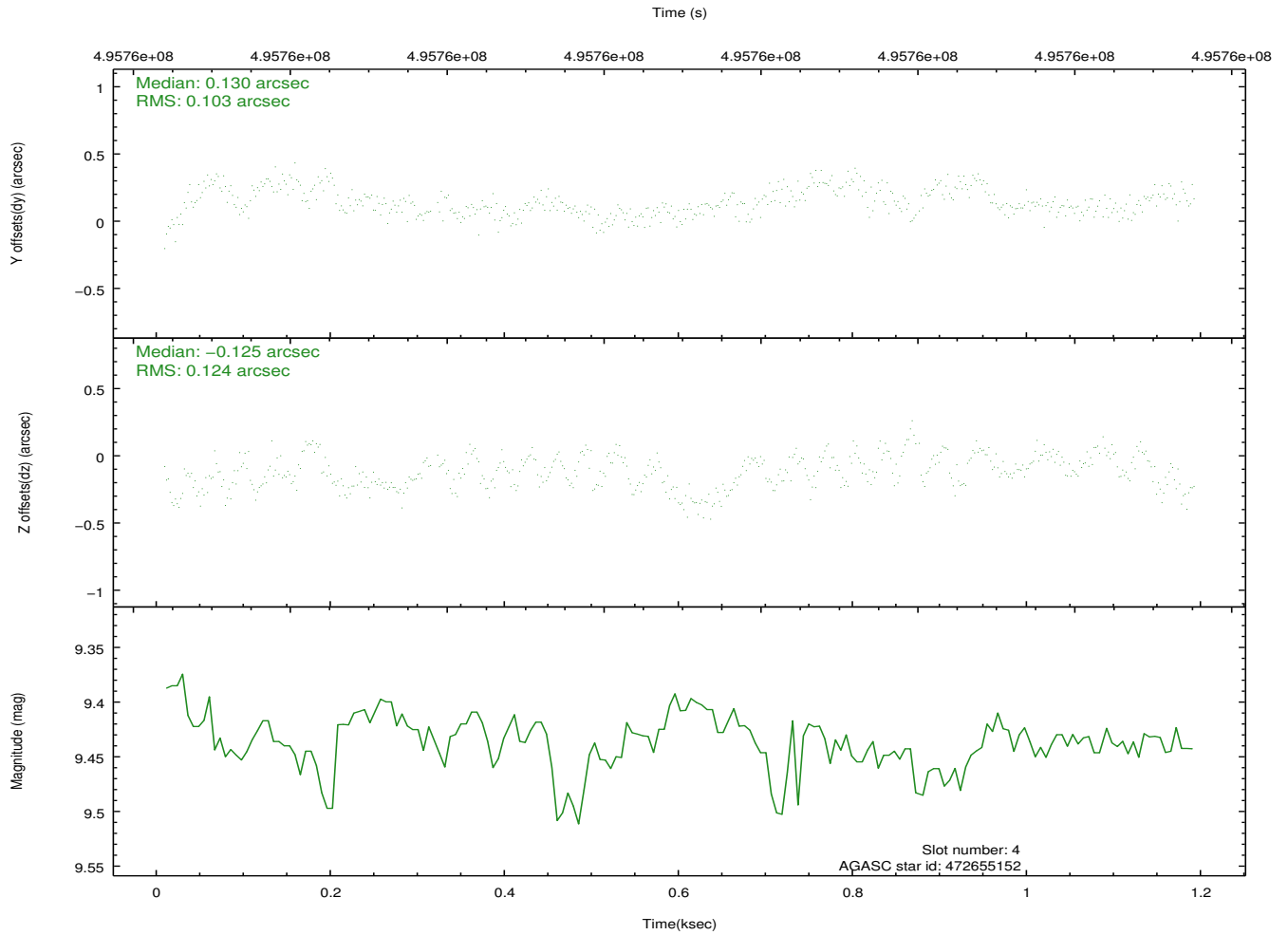
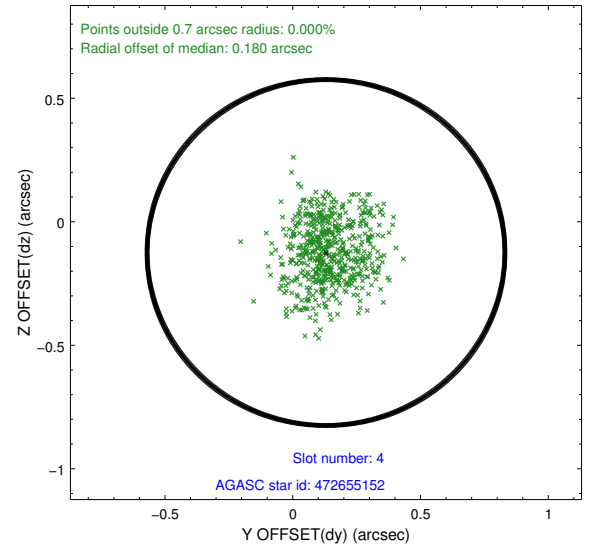
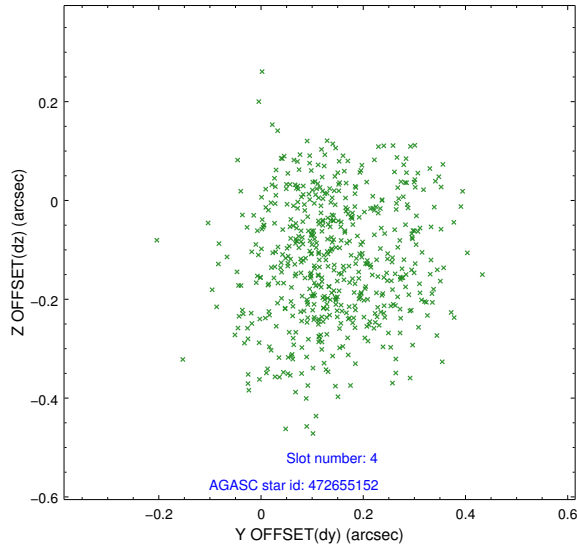
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	289	-0.143	-0.017	0.007	0.013	0.000000	0.000000	-786.82	-1308.41
1	FID		HRC-I-2	7.05	289	0.226	-0.038	0.006	0.011	0.000000	0.000000	823.46	-1314.43
2	FID		HRC-I-3	7.11	289	0.036	-0.034	0.007	0.012	0.000000	0.000000	-1212.41	991.56
3	GUIDE	used	472651904	6.12	578	-0.263	-0.154	0.090	0.152	332.170077	45.742257	668.53	-540.41
4	GUIDE	used	472655152	9.44	573	0.130	-0.125	0.174	0.272	332.504239	45.862991	-274.58	-520.00
5	GUIDE	used	472665256	9.00	577	0.258	-0.014	0.092	0.152	332.808125	46.195041	-1512.76	-1210.22
6	GUIDE	used	472523760	8.27	578	-0.339	0.010	0.084	0.133	331.645363	45.403260	2413.36	-113.10
7	GUIDE	used	472659736	9.37	577	0.201	0.295	0.153	0.228	332.848312	46.590160	-2269.94	-2414.71

2.4 Star Slots

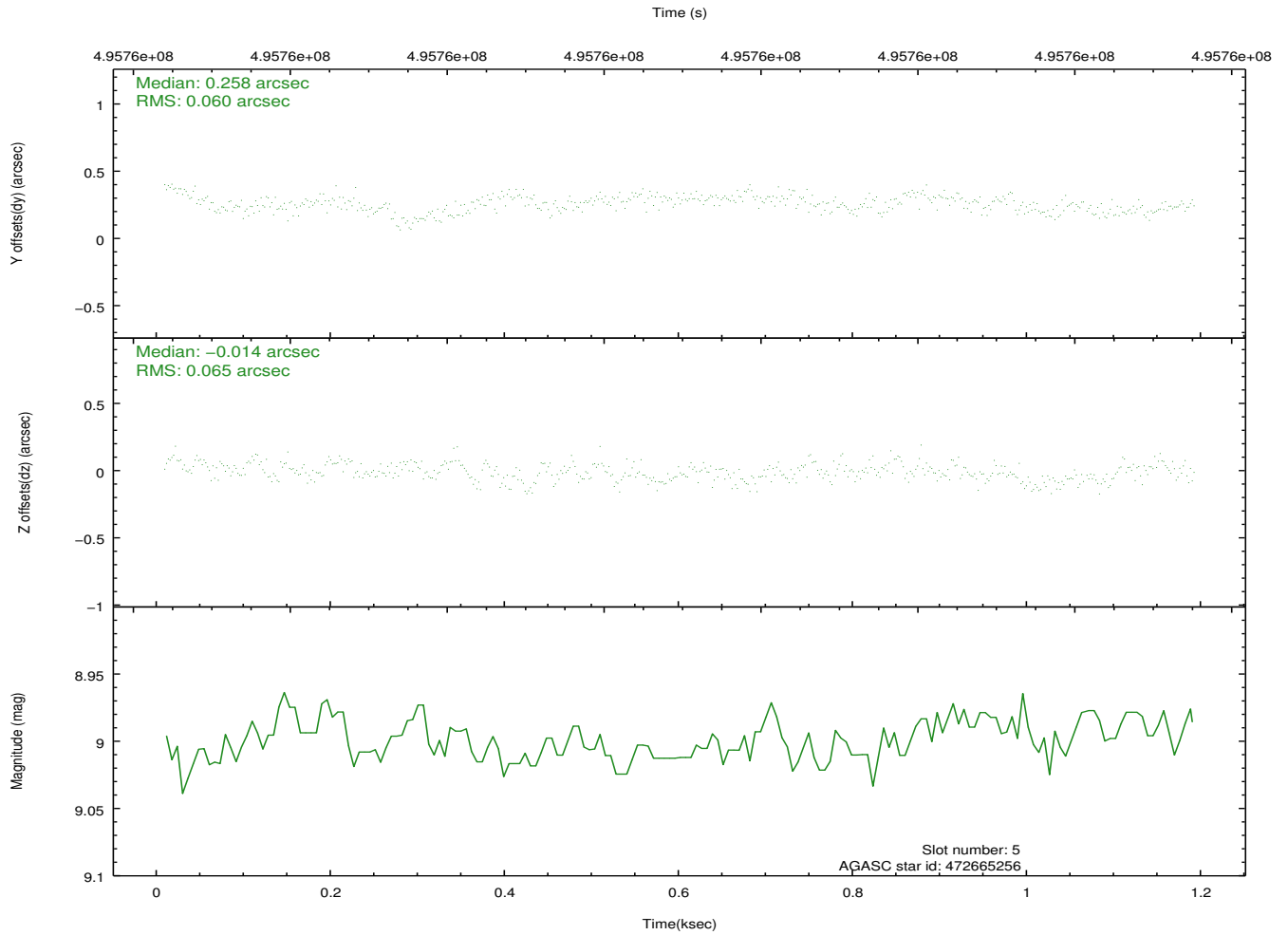
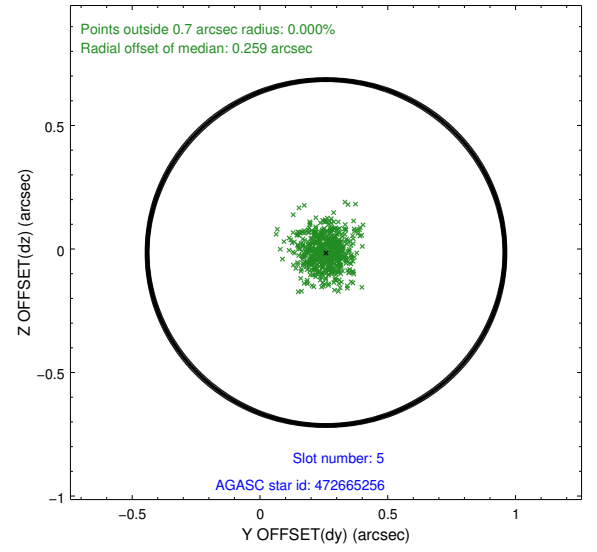
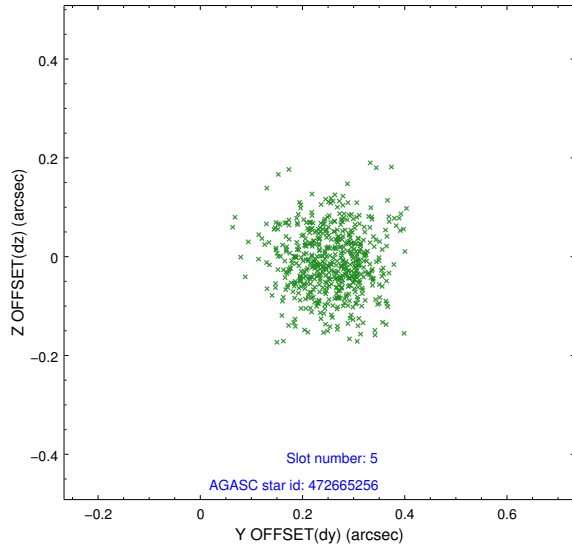
2.4.1 Slot 3



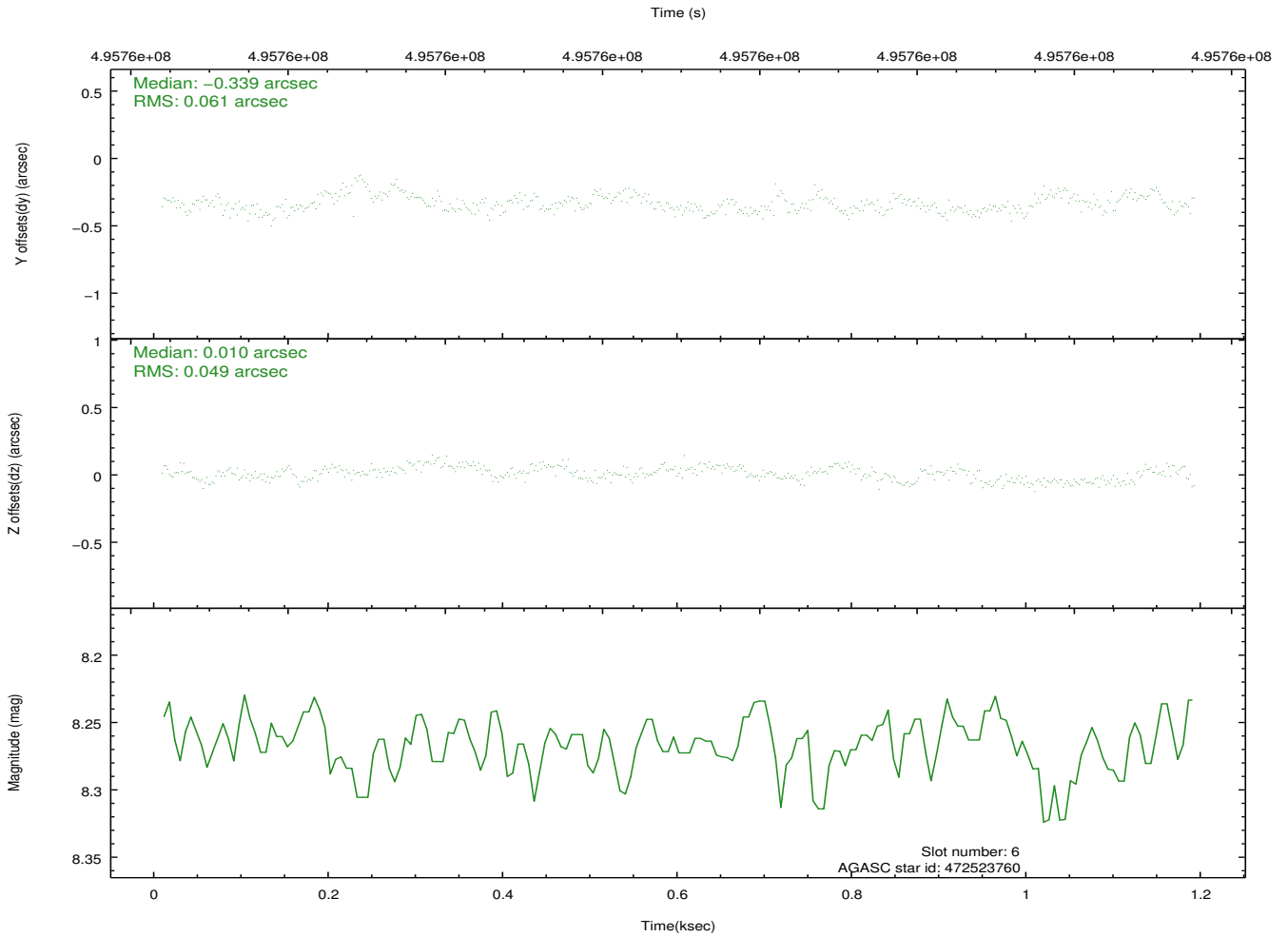
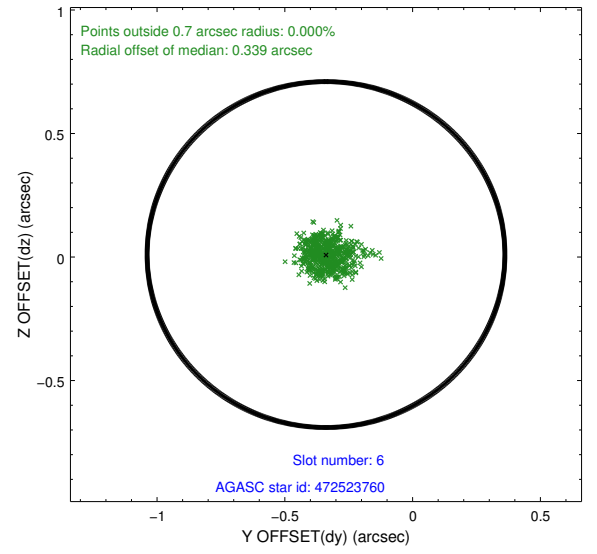
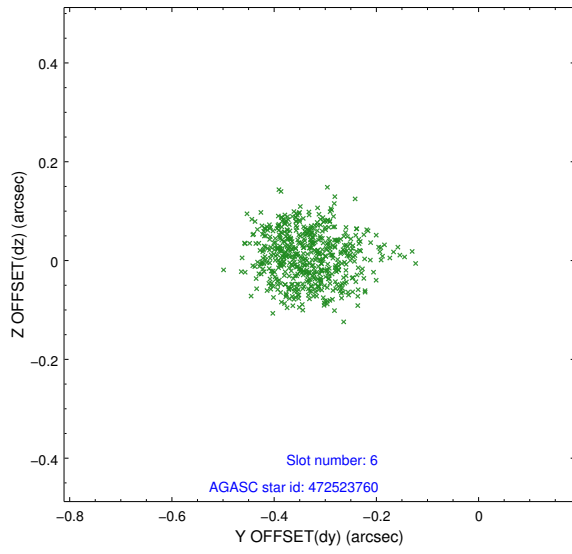
2.4.2 Slot 4



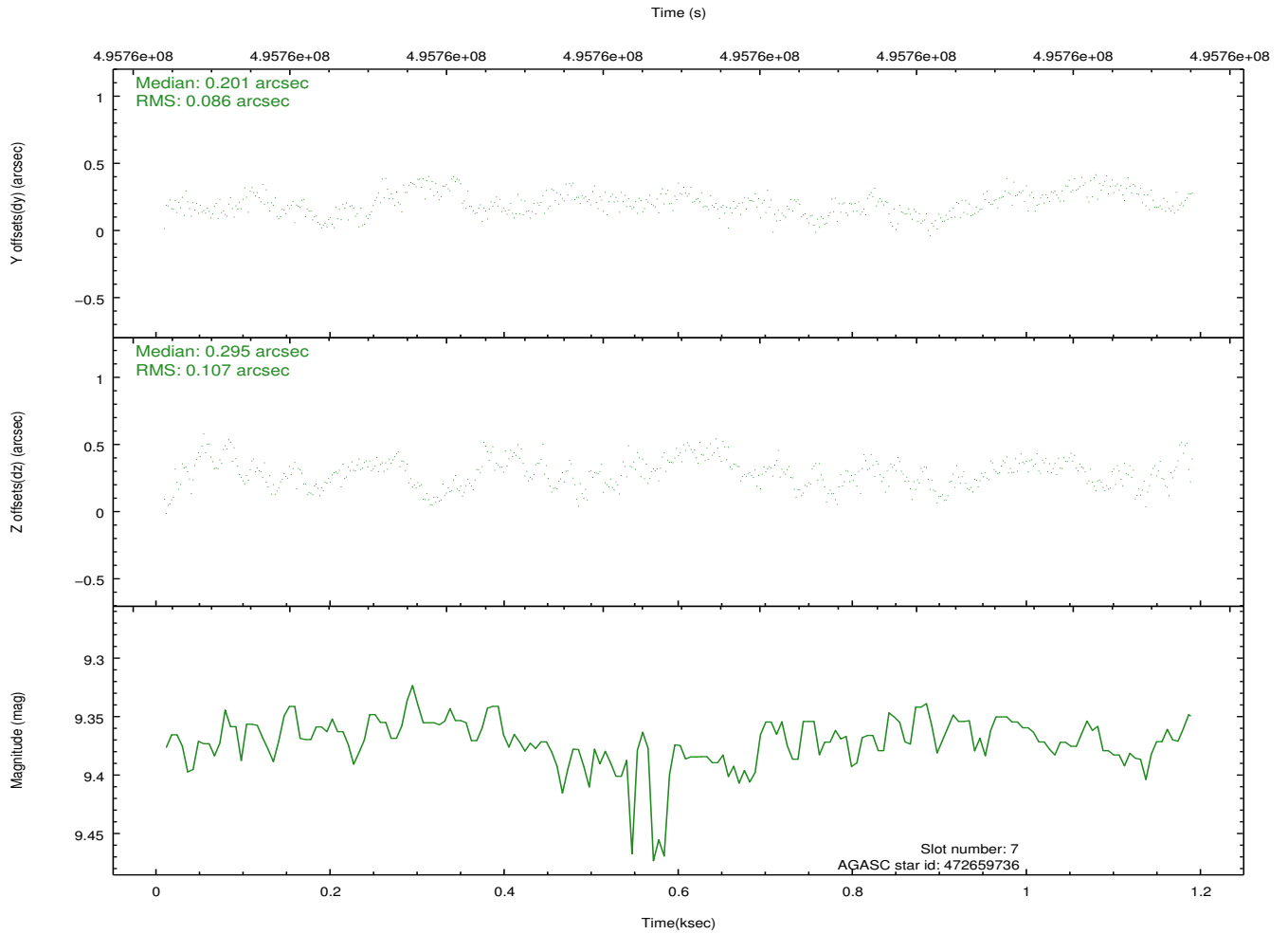
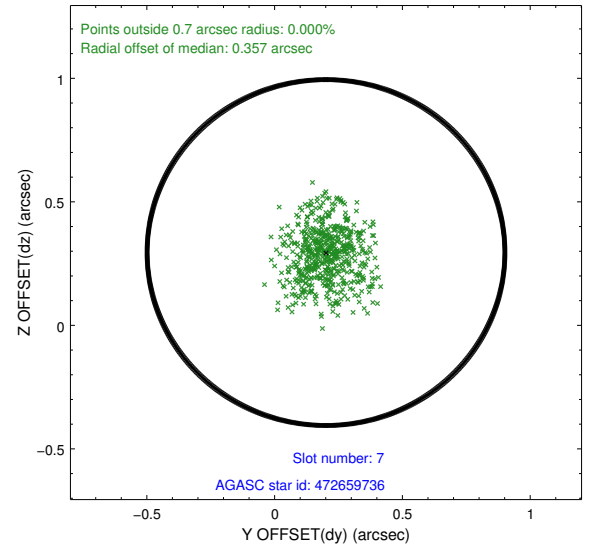
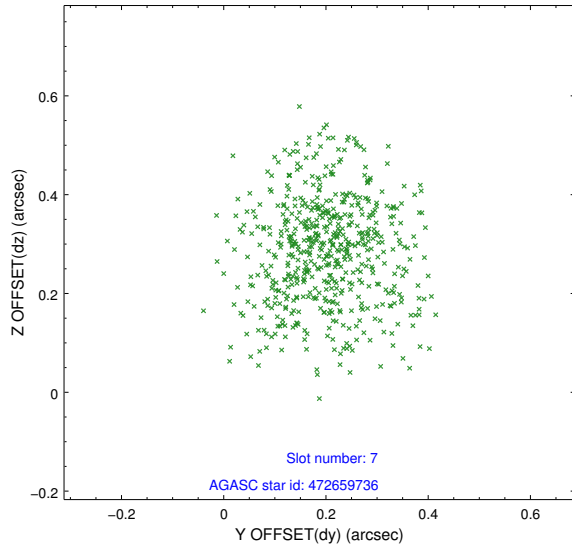
2.4.3 Slot 5



2.4.4 Slot 6

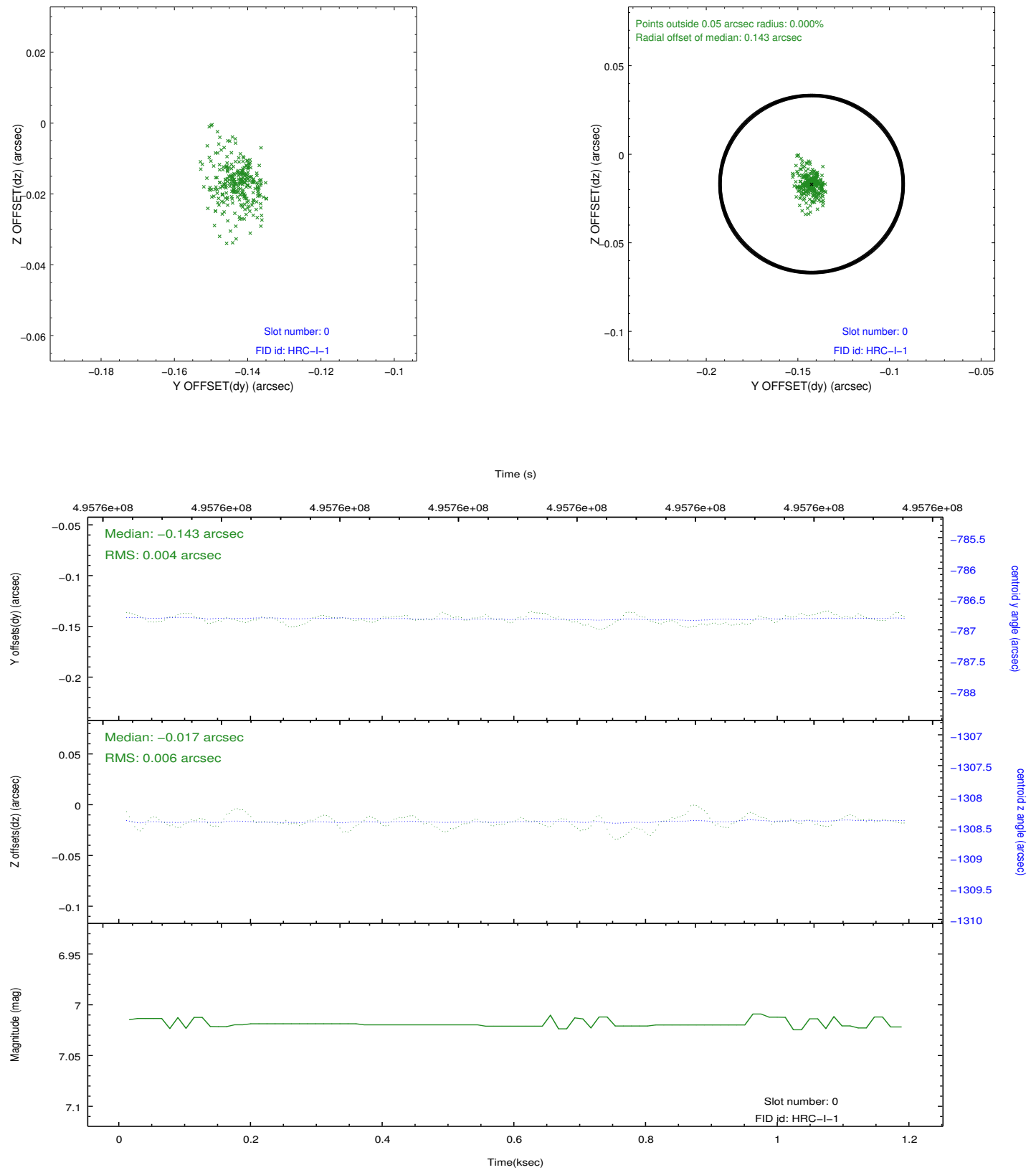


2.4.5 Slot 7

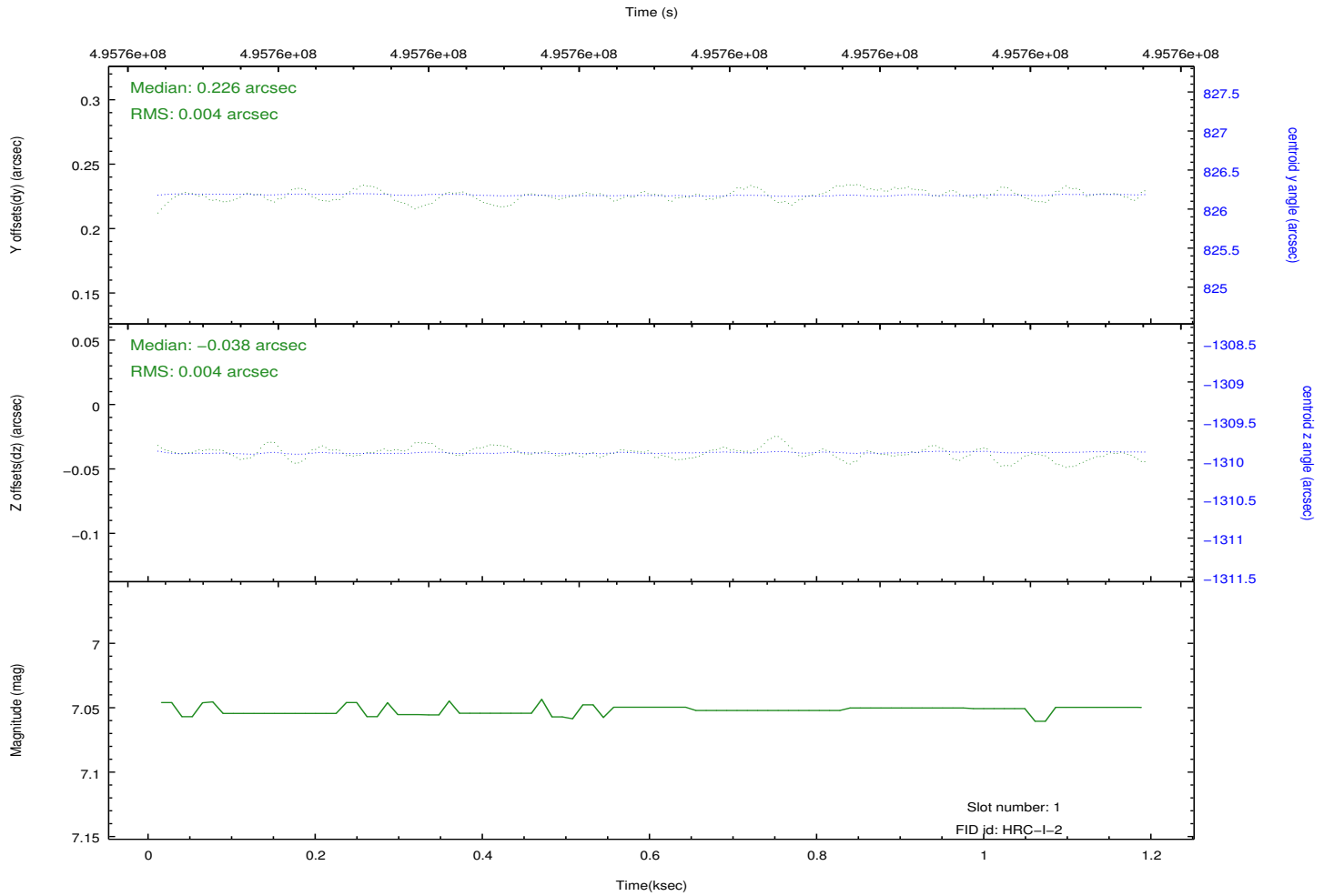
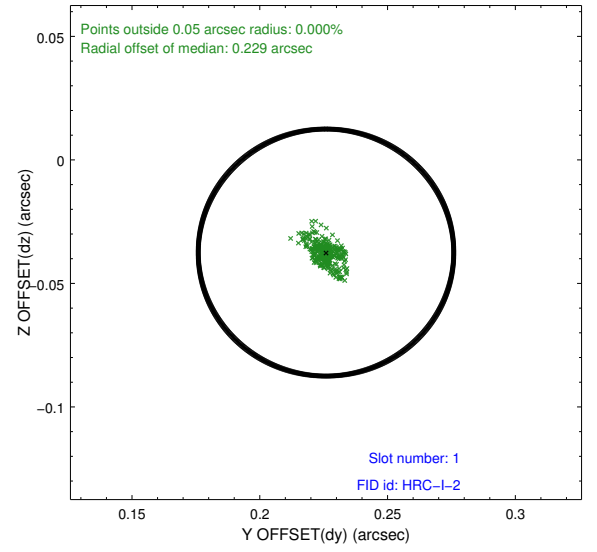
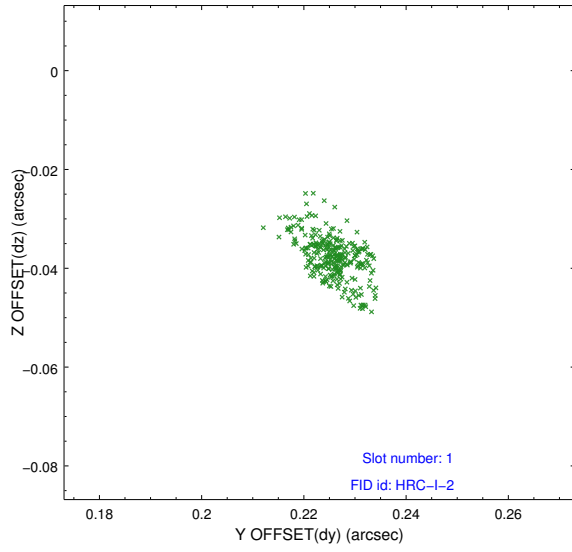


2.5 FID Slots

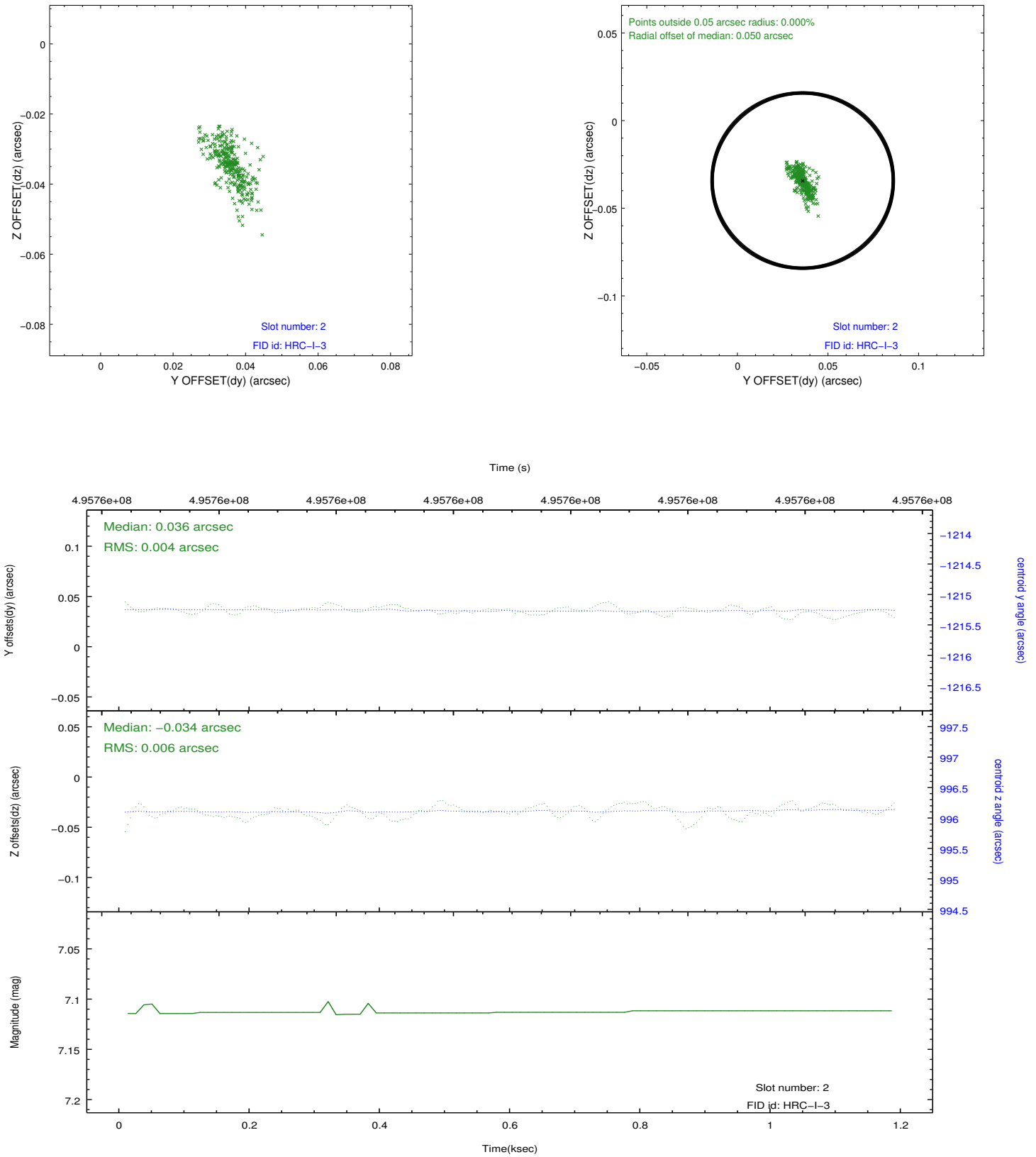
2.5.1 Slot 0



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	1.1818250645399

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.