

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6541 - L2 Version 5
Chandra X-Ray Center

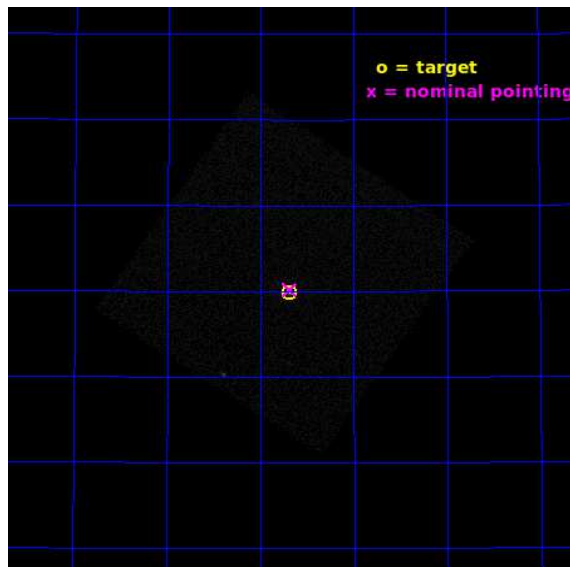
L2 Processing Date : Oct 12 2020

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

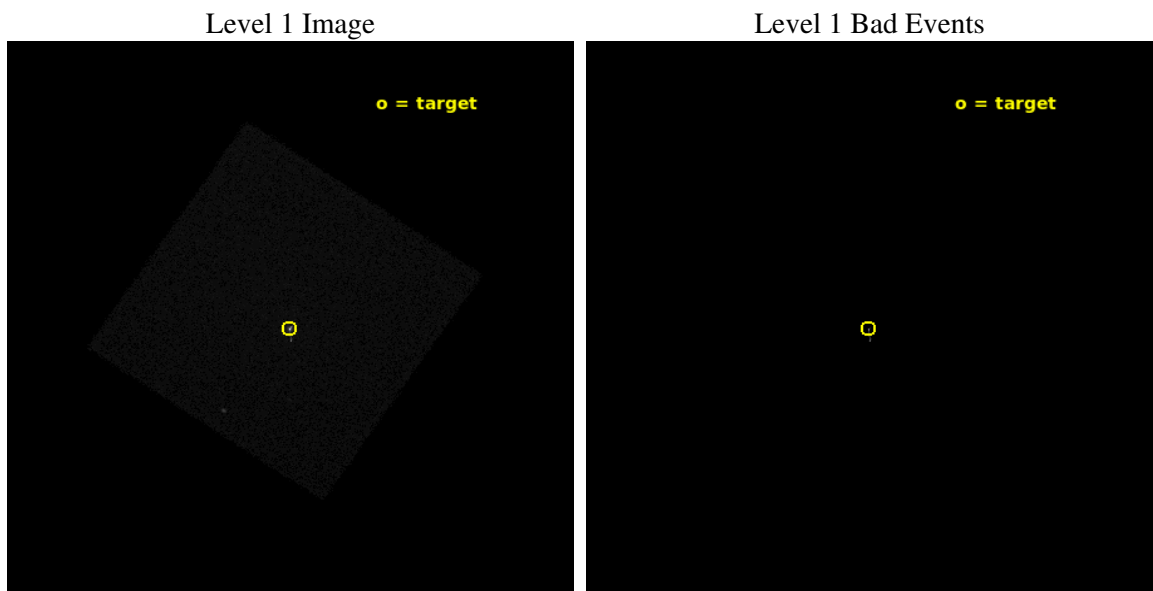
seq_num	290634	Sequence number
obs_id	6541	Observation id
title	Improving the De-Gap Corrections for the HRC-I	Proposal title
observer	CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.1725	Observer's specified target RA [deg]
dec_targ	45.998	Observer's specified target Dec [deg]
ra_nom	79.1712402977	Nominal RA [deg]
dec_nom	46.002990423677	Nominal Dec [deg]
roll_nom	169.14683088261	Nominal Roll [deg]
revision	5	Processing version of data
ontime	4796.231471777	[s]
livetime	4752.5253336731	Ontime multiplied by DTCOR
l2events	301755	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4796.231471777	[s]
caldsver	4.9.2	 	l1events	417056	Number of level 1 events
date	2020-10-12T03:30:31	Date and time of file creation			
revision	5	Processing version of data			

2.1.3 Events

Level 1 Events

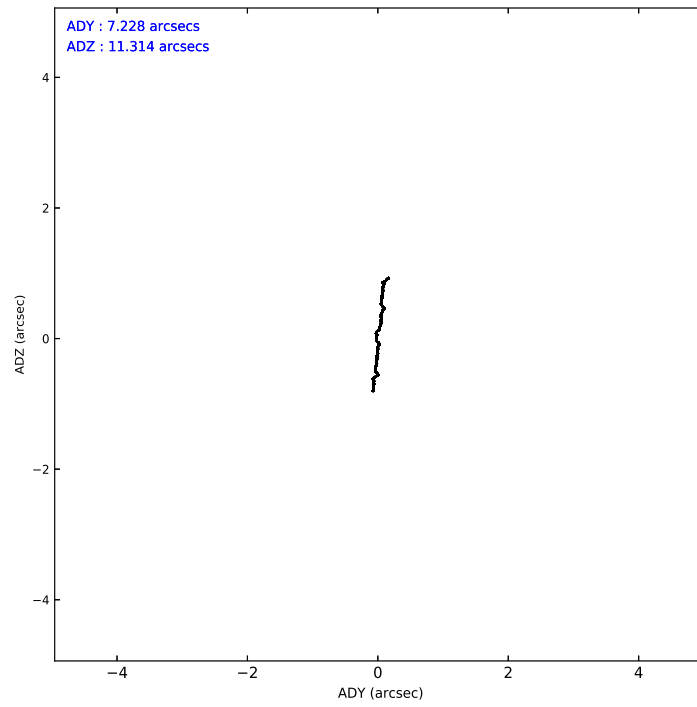
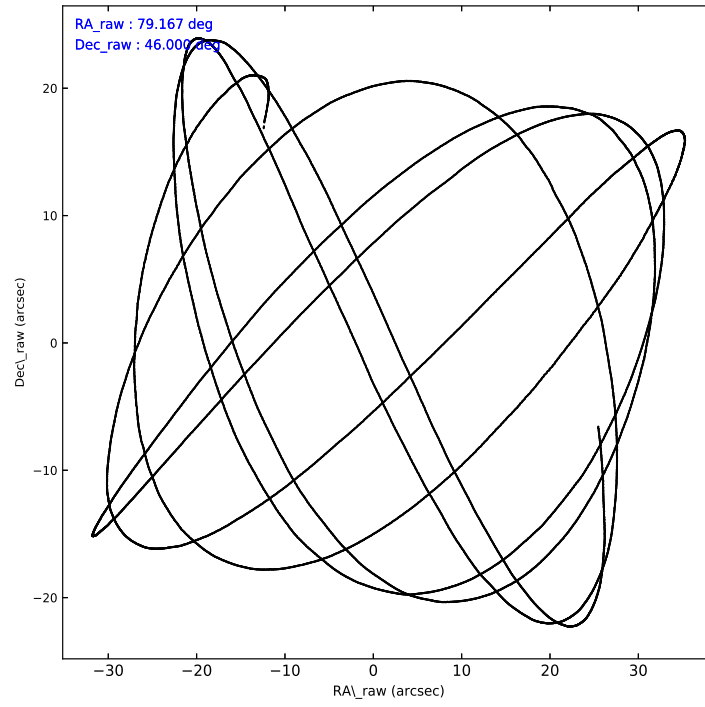
	segment 0
level 1 events	417056
rejected events	15630
rejected %	3%

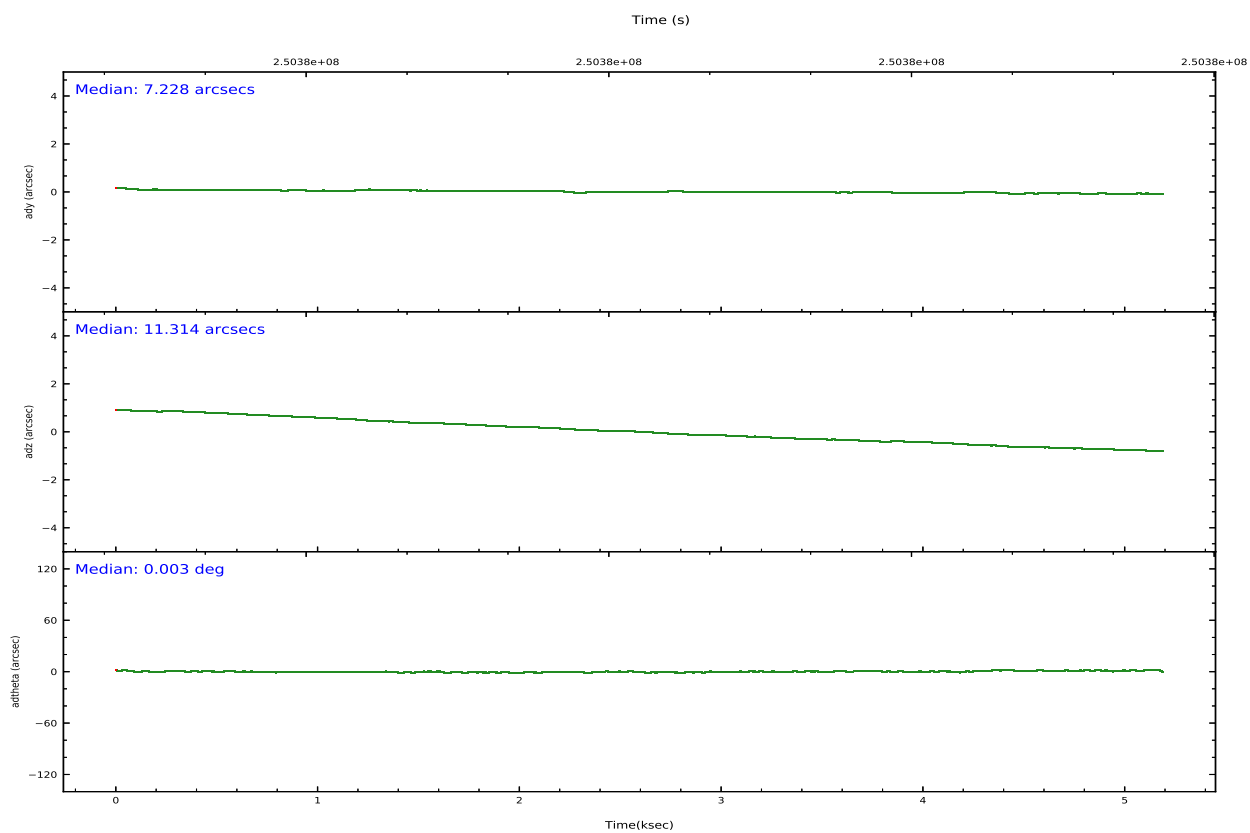
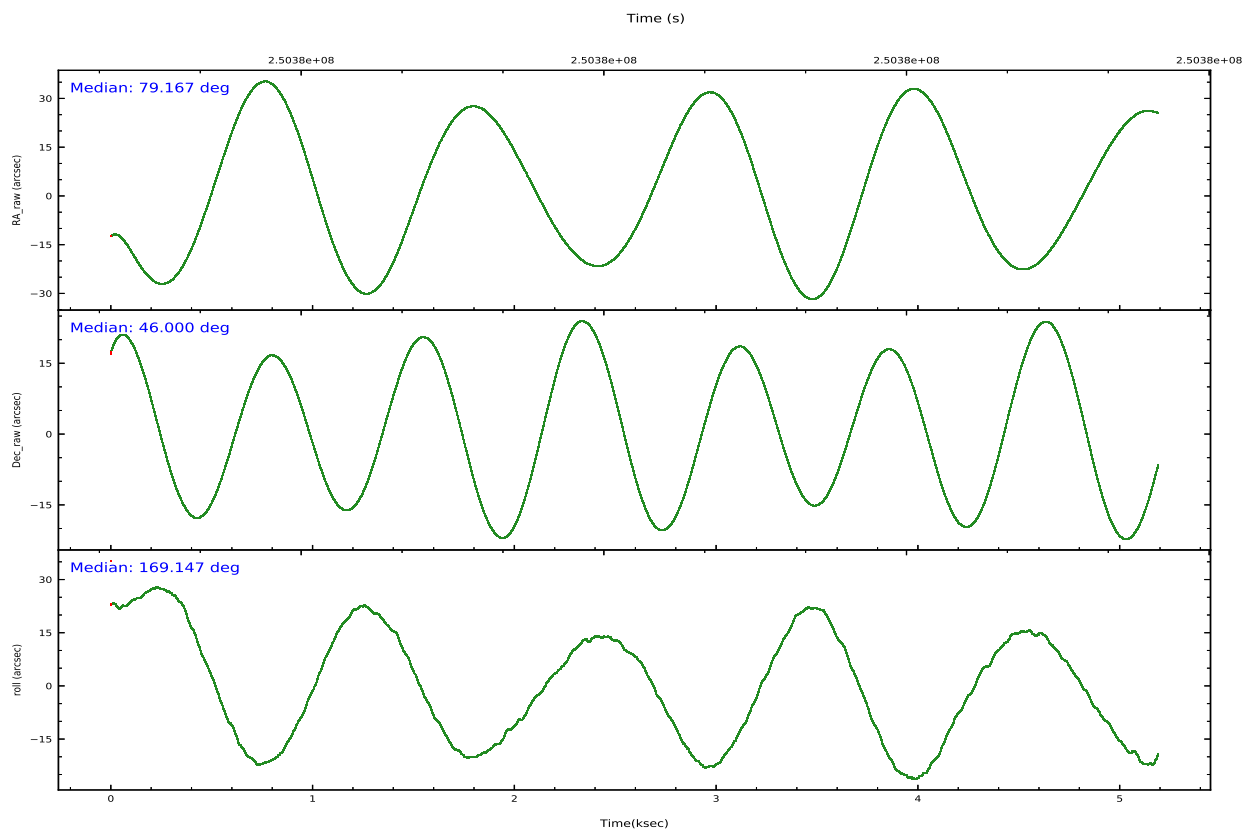
2.2 Compared Parameters

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	79.204055	79.1712402977
[deg] Pointing Dec	46.009783	46.002990423677
[deg] Pointing Roll	169.226054	169.14683088261
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	132.985494	132.9771076689053
[mm] SIM translation stage offset	-6	-5.991618777303728
[s] Observation start time (MET)	250377247.184000	250376282.24448
Observation start date	2005-12-07T21:13:03	2005-12-07T20:58:02
[s] Observation end time (MET)	250382247.184000	250382380.99476
Observation end date	2005-12-07T22:36:23	2005-12-07T22:39:40

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



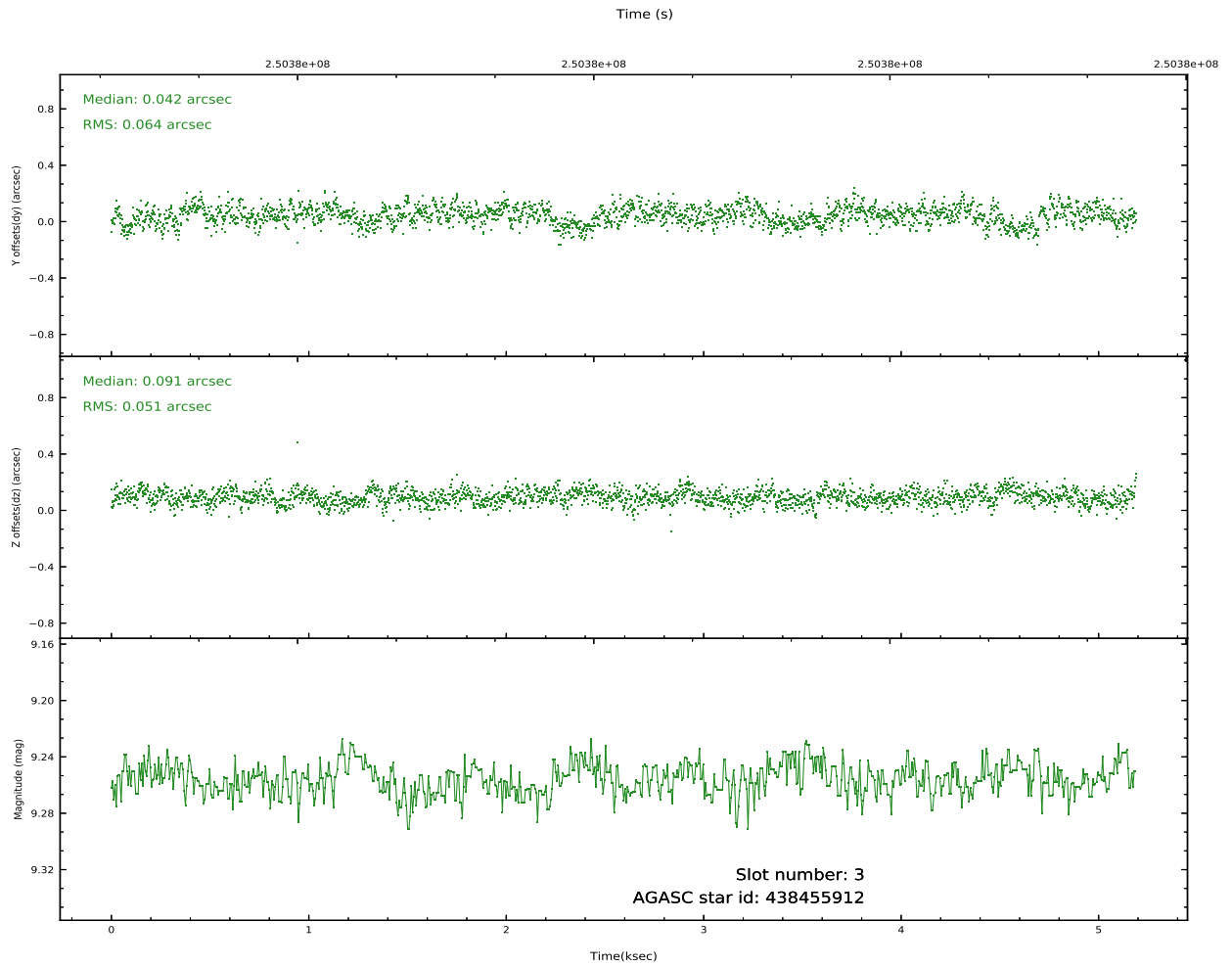
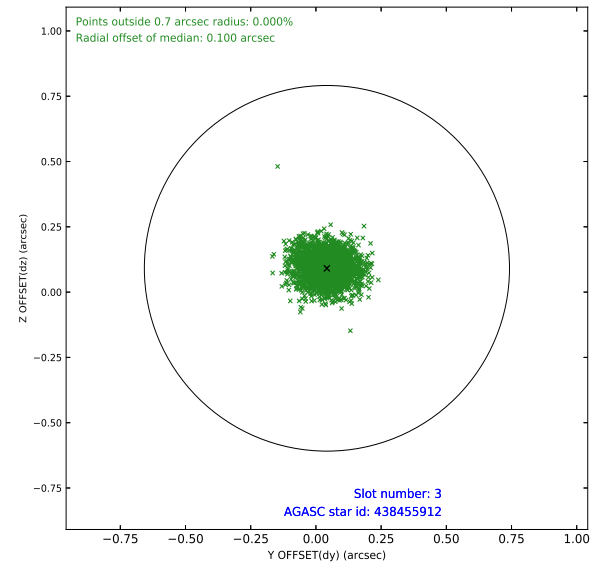
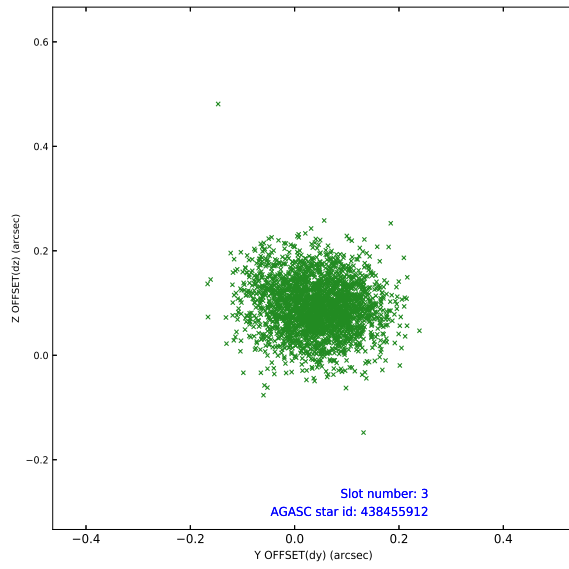


Slot Statistics

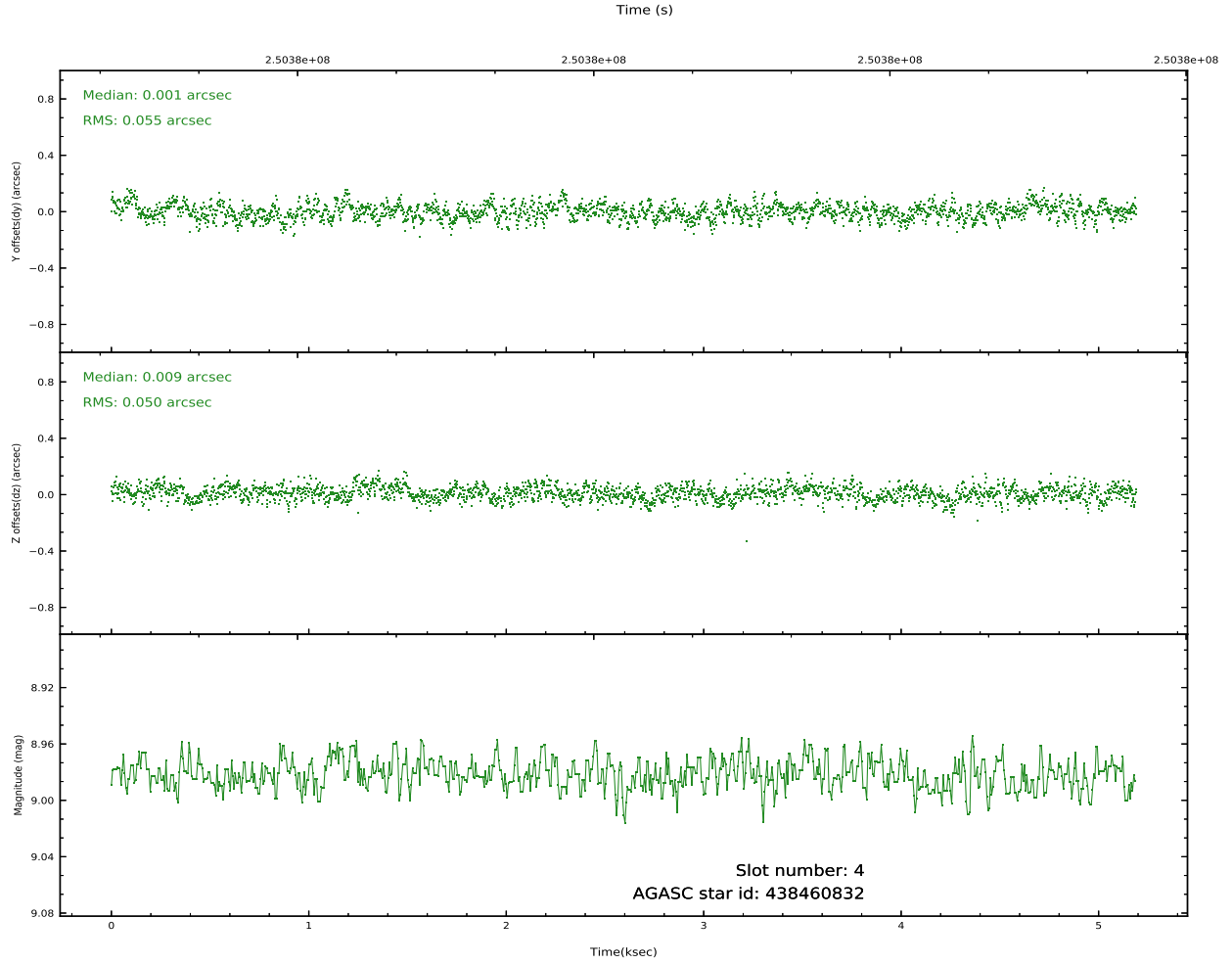
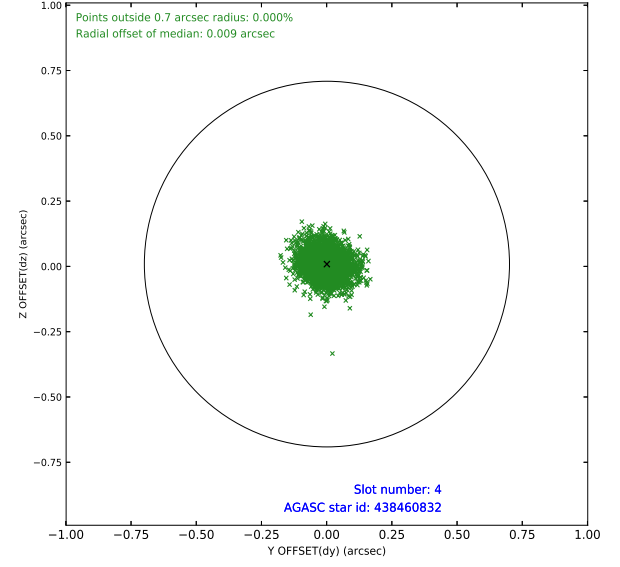
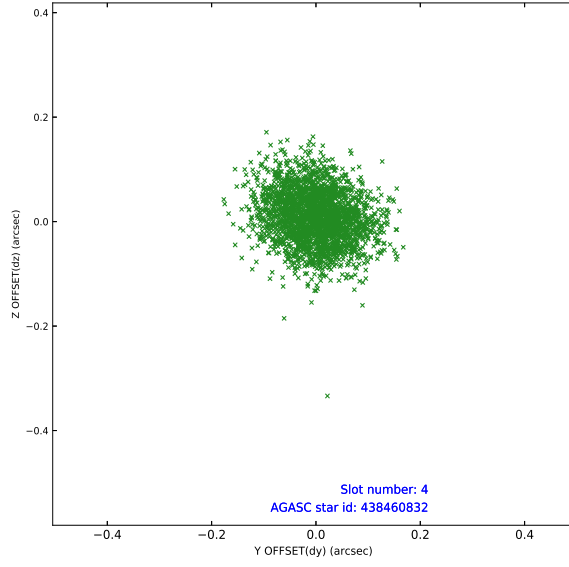
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.05	1266	1.000	0.027	-0.439	0.014	0.023	0.000000	0.000000	-762.88	-1422
1	FID		HRC-I-2	7.08	1267	1.000	0.064	0.042	0.008	0.016	0.000000	0.000000	849.53	-1425
2	FID		HRC-I-3	7.15	1267	1.000	0.028	0.305	0.011	0.022	0.000000	0.000000	-1190.59	881
3	GUIDE	used	438455912	9.26	2532	1.000	0.042	0.091	0.086	0.142	78.251946	45.690923	2139.97	1561
4	GUIDE	used	438460832	8.98	2533	1.000	0.001	0.009	0.079	0.128	78.414614	45.554782	1651.13	1972
5	GUIDE	used	440149808	8.51	2532	1.000	0.032	-0.038	0.067	0.109	78.873930	46.405955	1072.82	-1249
6	GUIDE	used	440150048	7.15	2531	1.000	-0.088	-0.052	0.067	0.109	79.112838	46.416060	496.37	-1395
7	GUIDE	used	440163960	8.88	2531	1.000	0.014	-0.012	0.078	0.130	79.298370	45.827072	-355.32	600

2.4 Star Slots

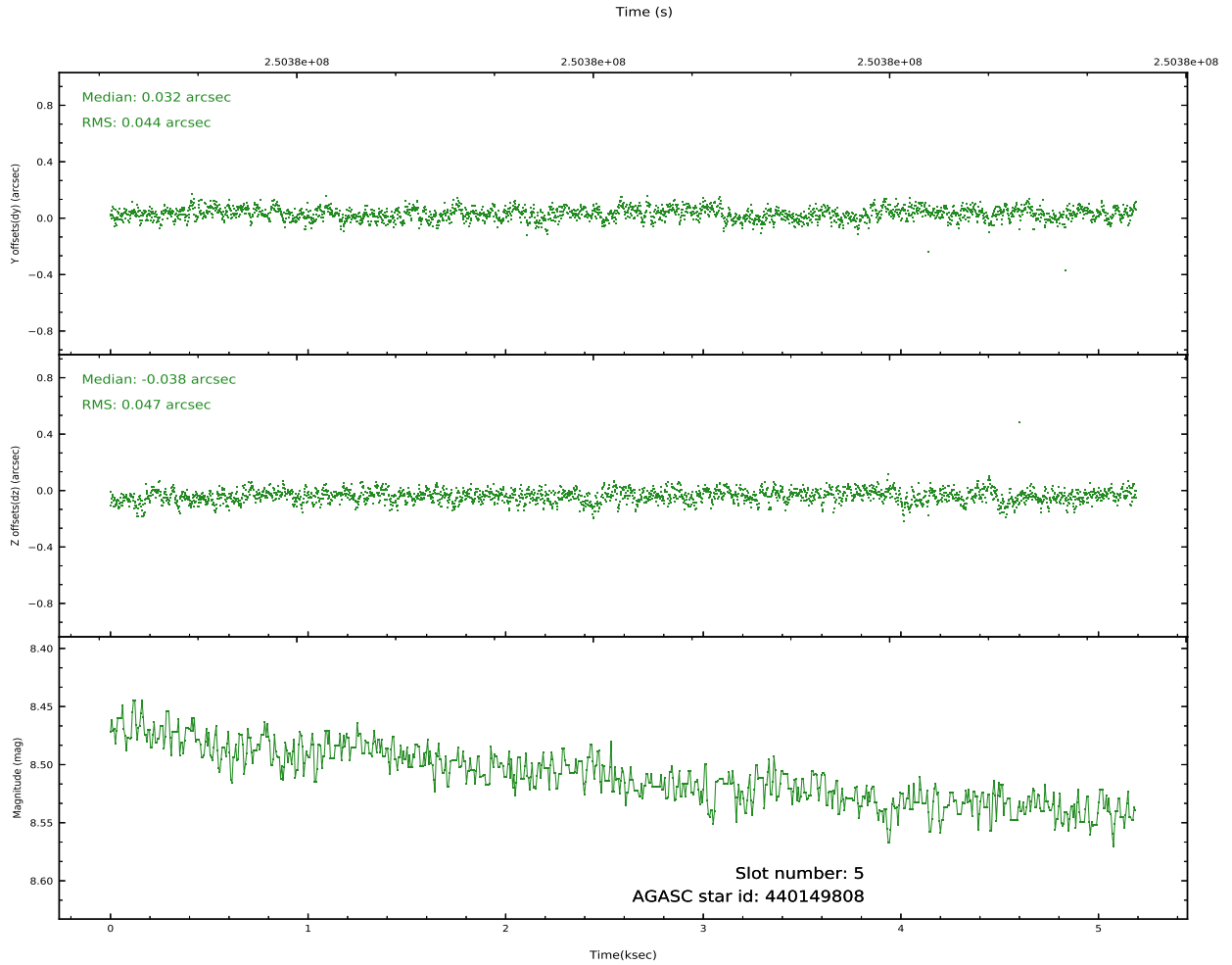
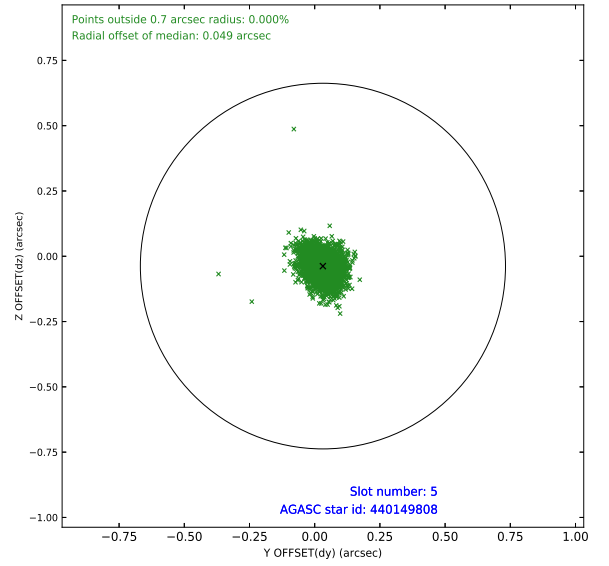
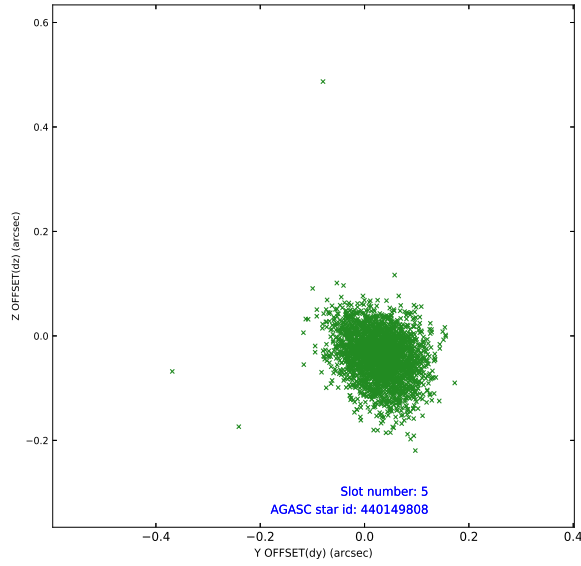
2.4.1 Slot 3



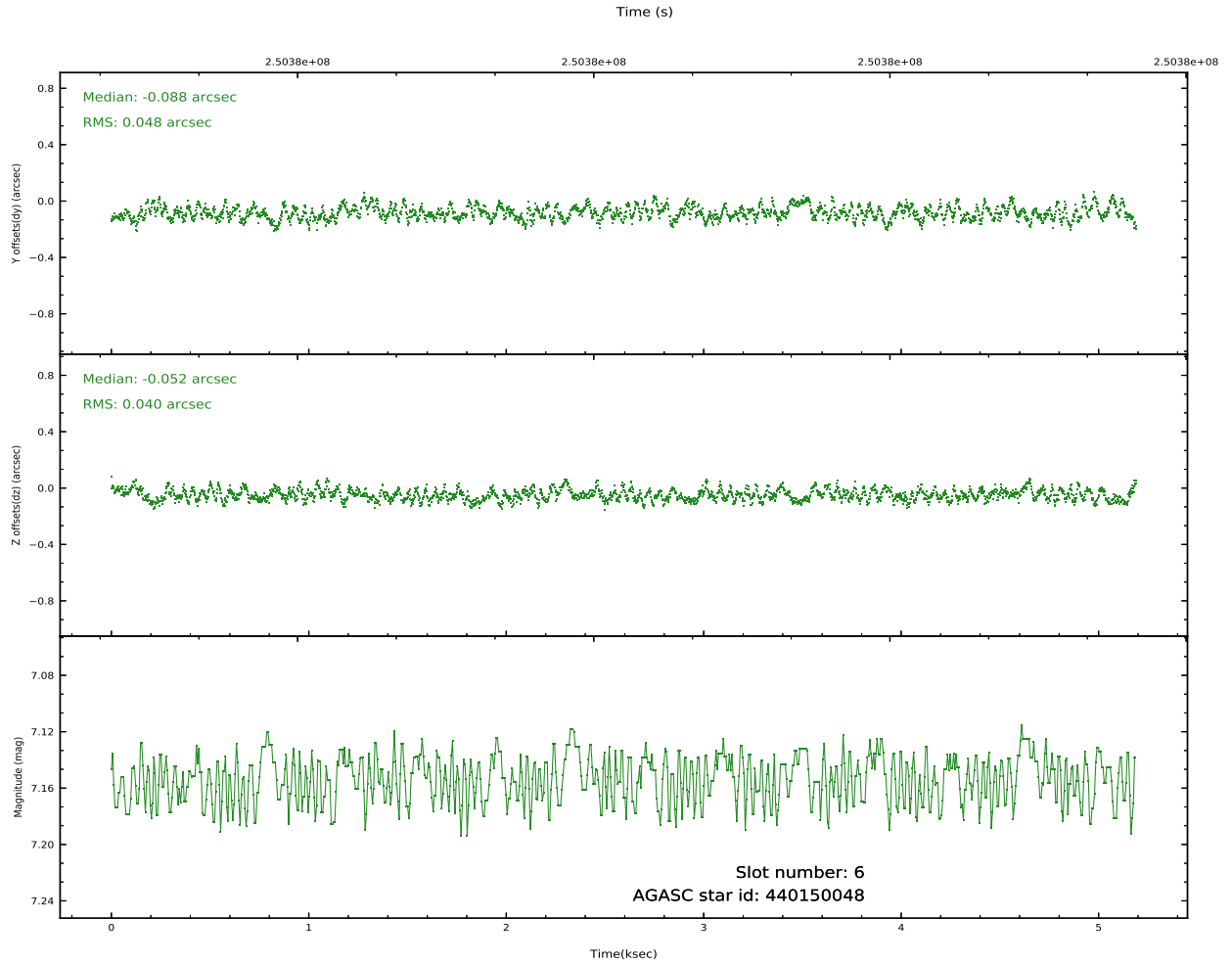
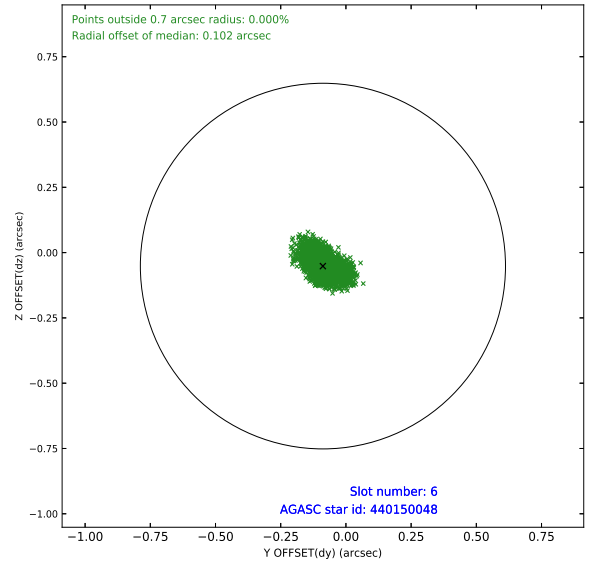
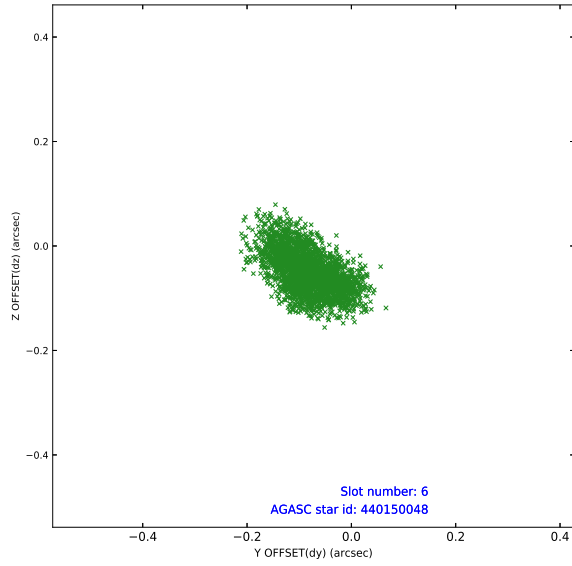
2.4.2 Slot 4



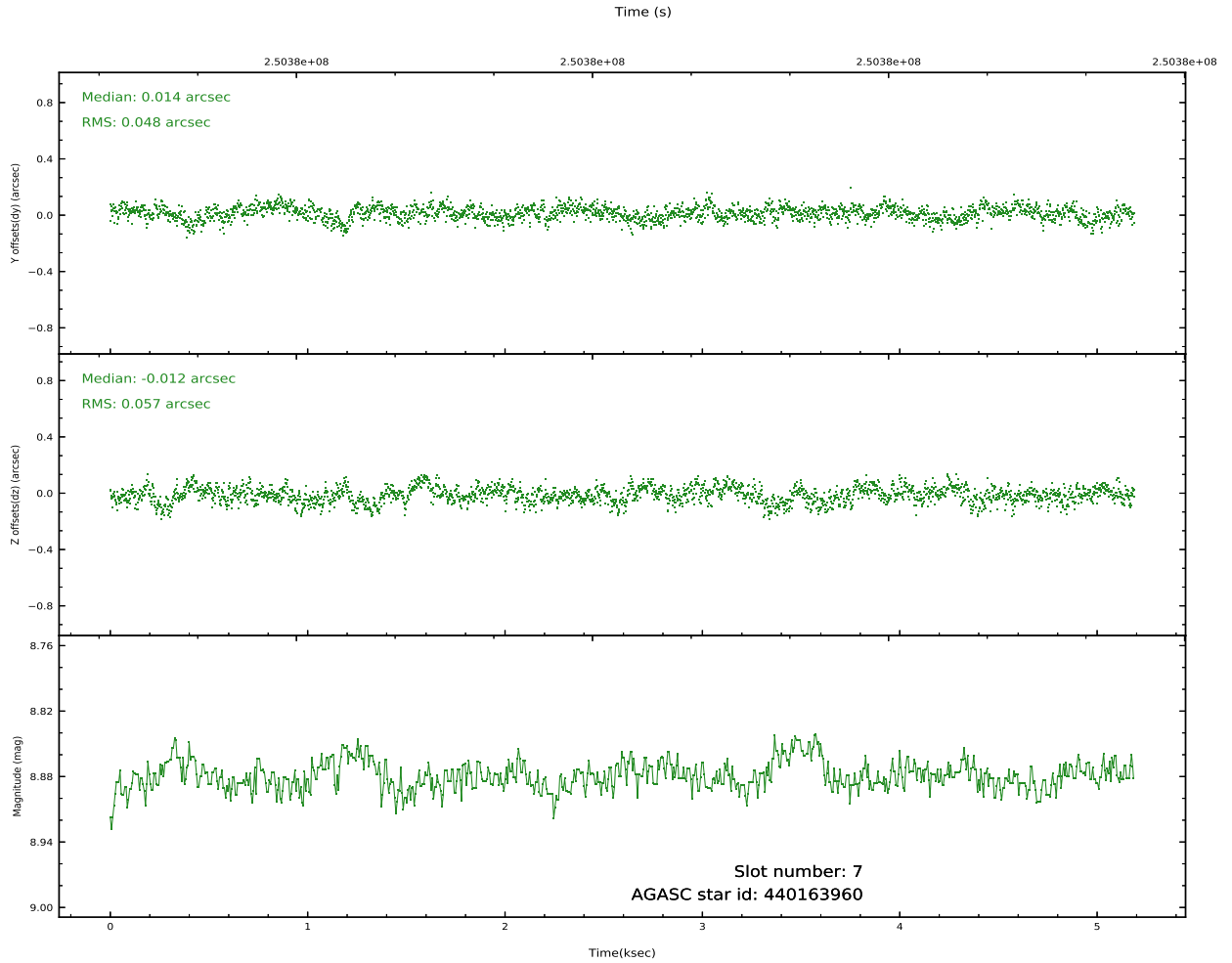
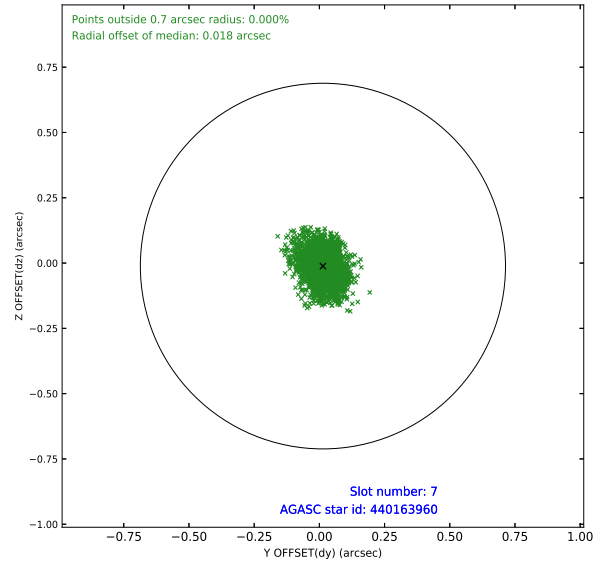
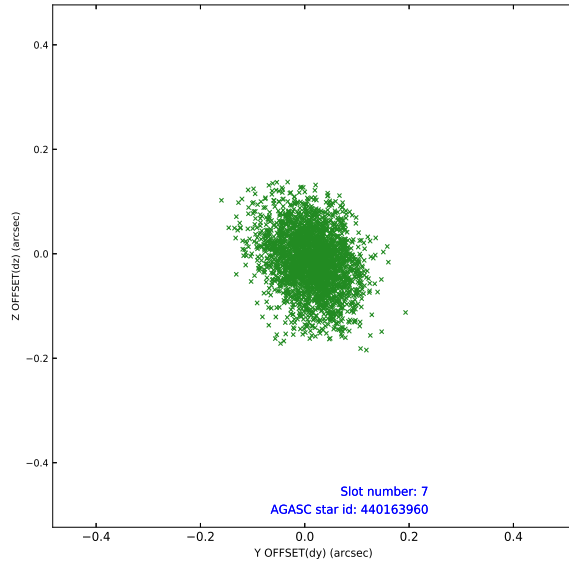
2.4.3 Slot 5



2.4.4 Slot 6

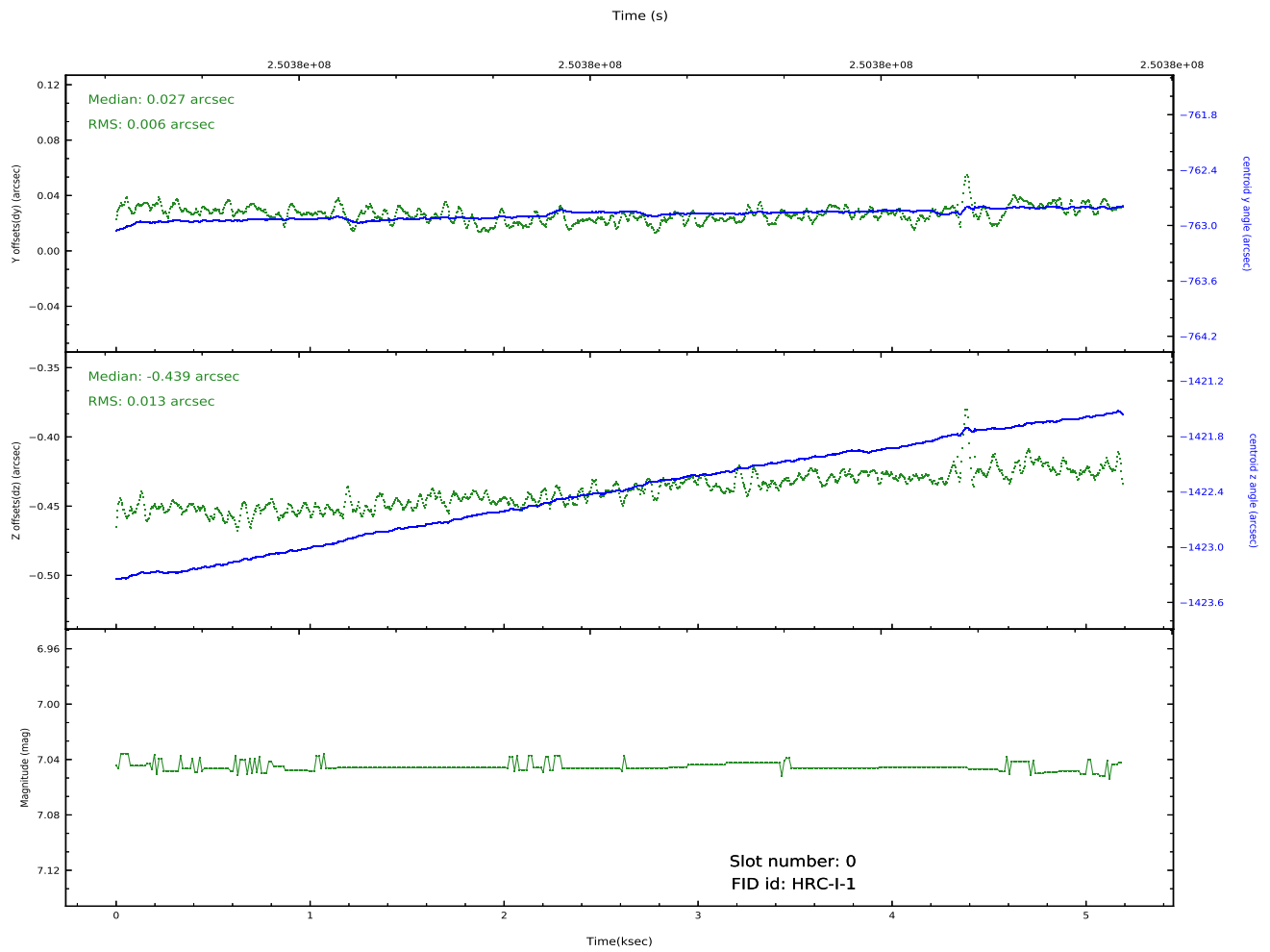
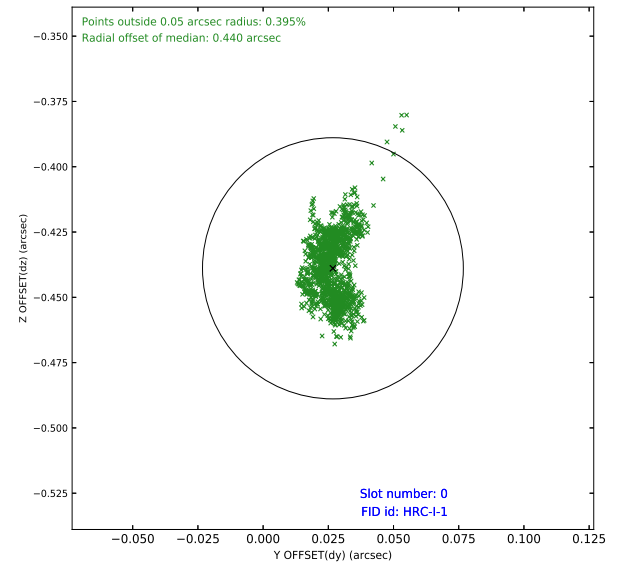
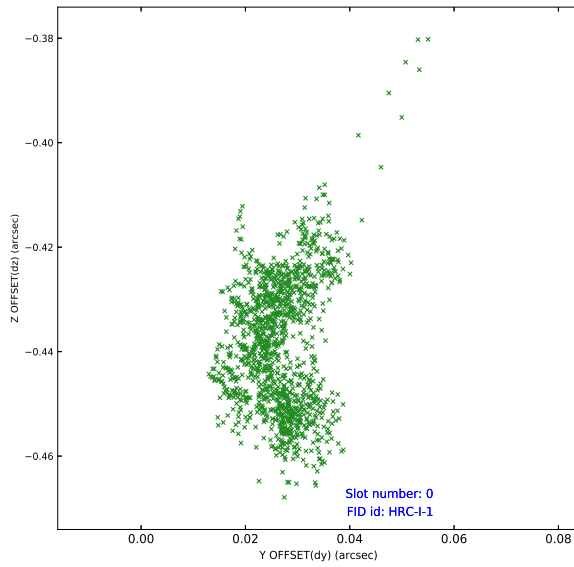


2.4.5 Slot 7

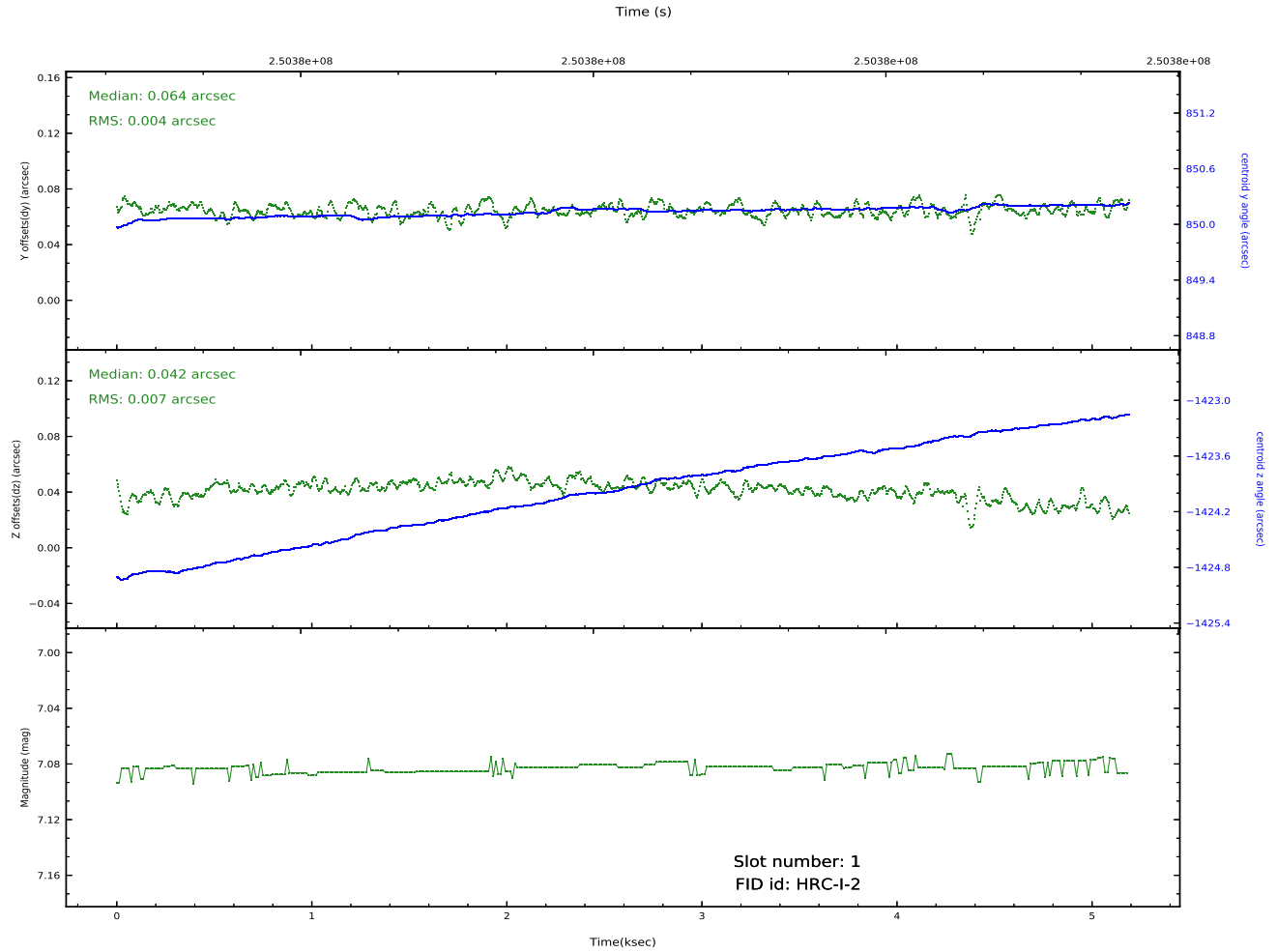
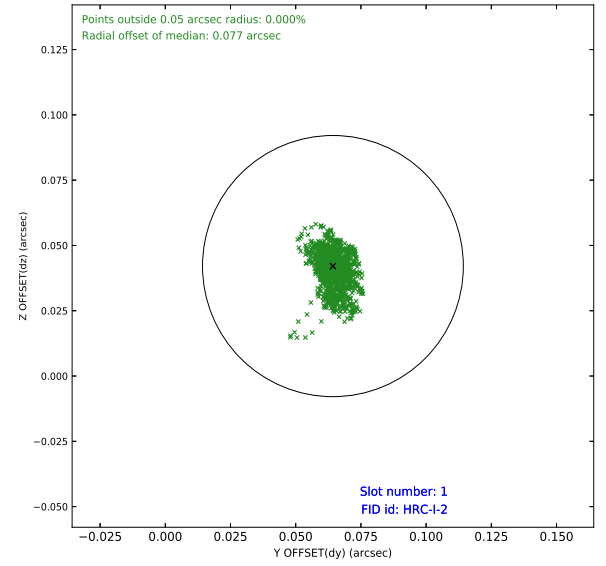
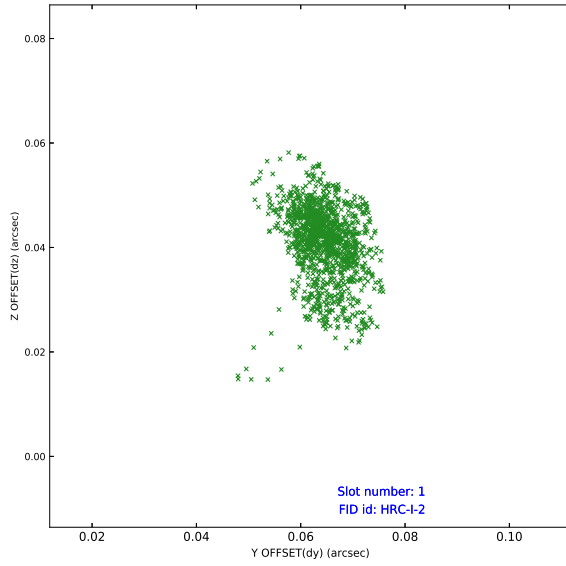


2.5 FID Slots

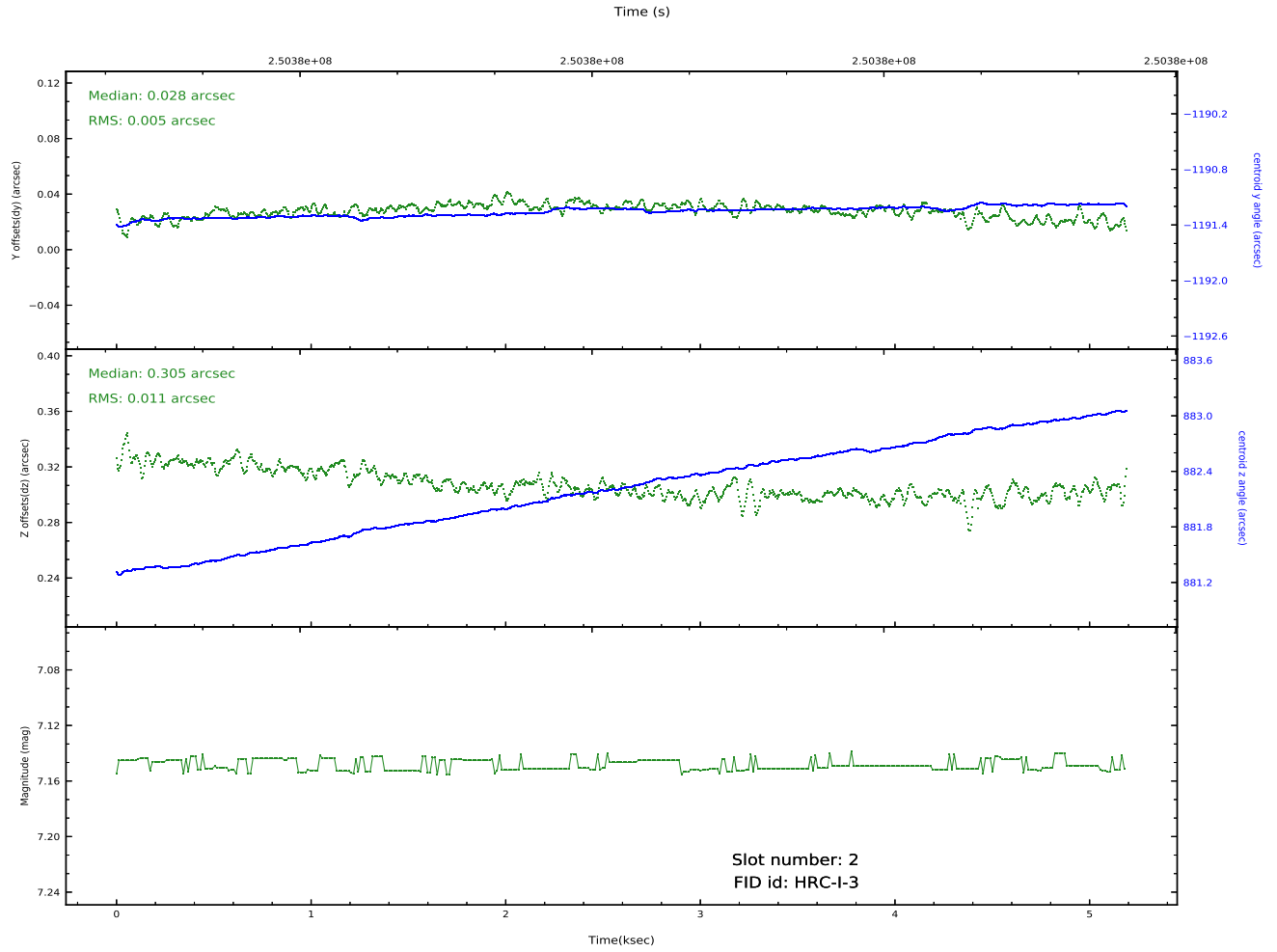
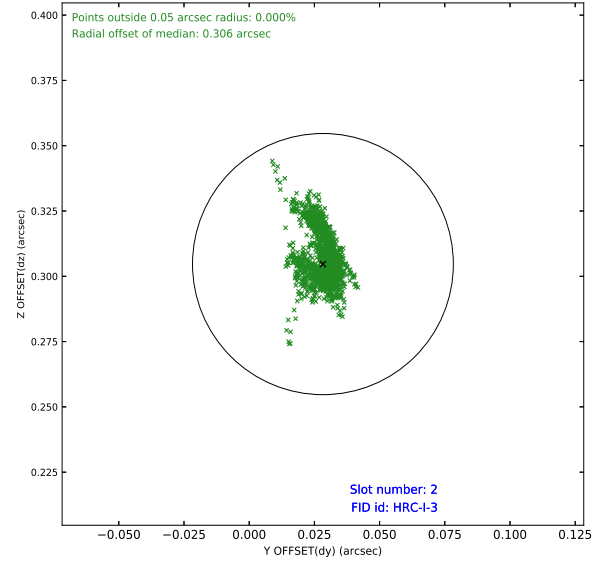
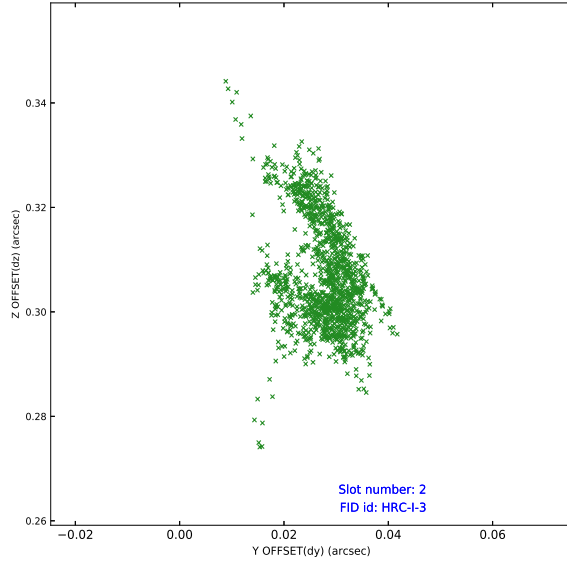
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.796231

A.2 Comments

This observation was performed with a large SIM offset. As a result, the fid light positions are offset beyond normally expected ranges.

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Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.