

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23147 - L2 Version 1
Chandra X-Ray Center

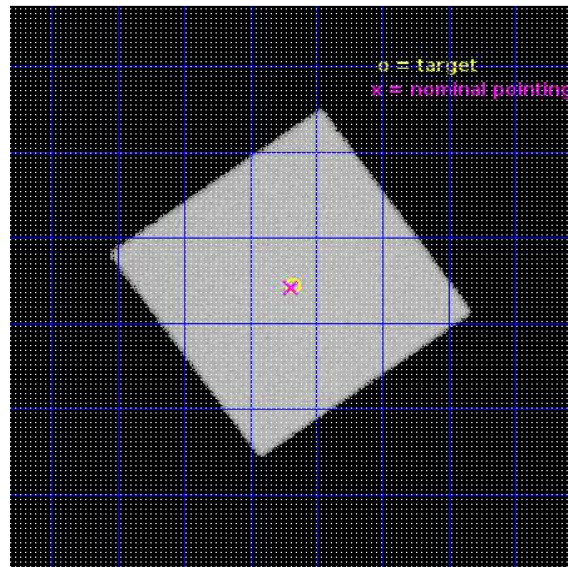
L2 Processing Date : Feb 18 2020

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1 Front

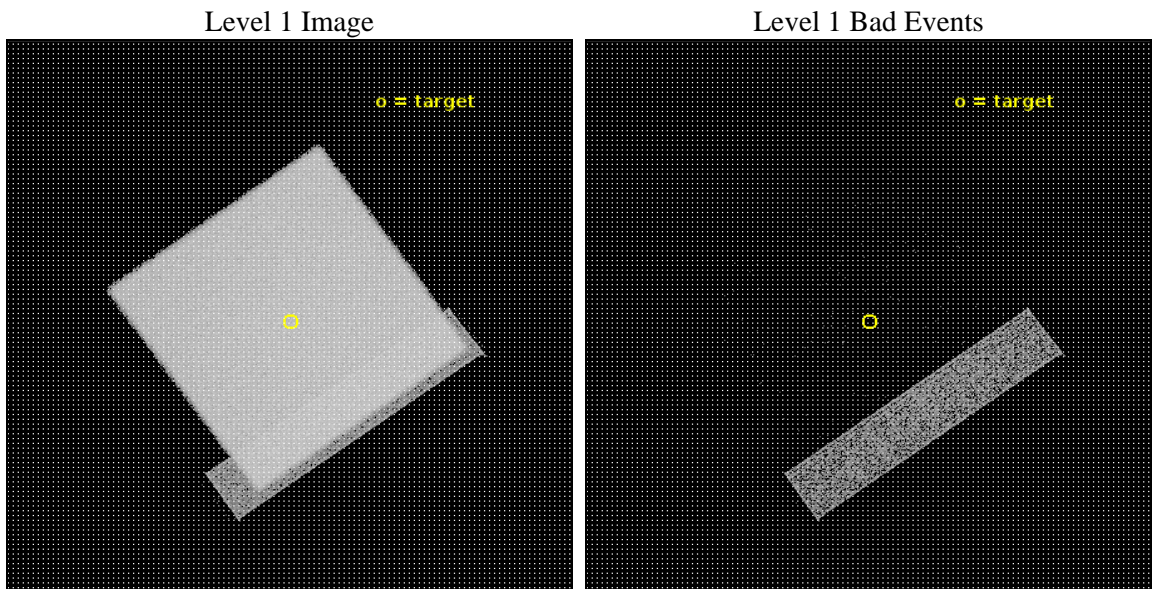
seq_num	201343	Sequence number
obs_id	23147	Observation id
title	The Dimming of Betelgeuse	Proposal title
observer	Vinay Kashyap	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792958	Observer's specified target RA [deg]
dec_targ	7.407064	Observer's specified target Dec [deg]
ra_nom	88.797221573743	Nominal RA [deg]
dec_nom	7.4030467907334	Nominal Dec [deg]
roll_nom	279.65639719259	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5159.8503124714	[s]
livetime	5093.4278918378	Ontime multiplied by DTCOR
l2events	568850	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	10.8.1	Processing system revision	ontime	5159.8503124714	[s]
caldsver	4.8.4.2	 	l1events	837039	Number of level 1 events
date	2020-02-18T05:14:55	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

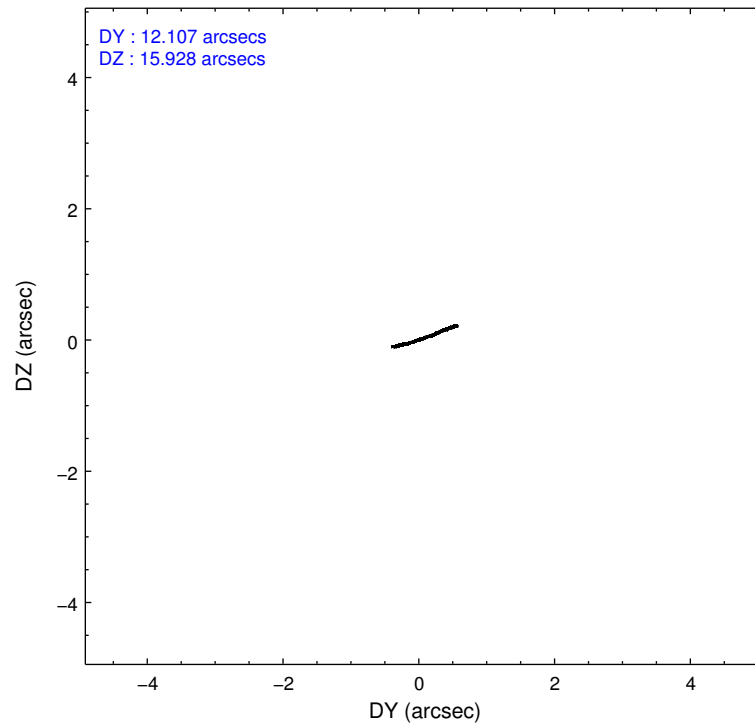
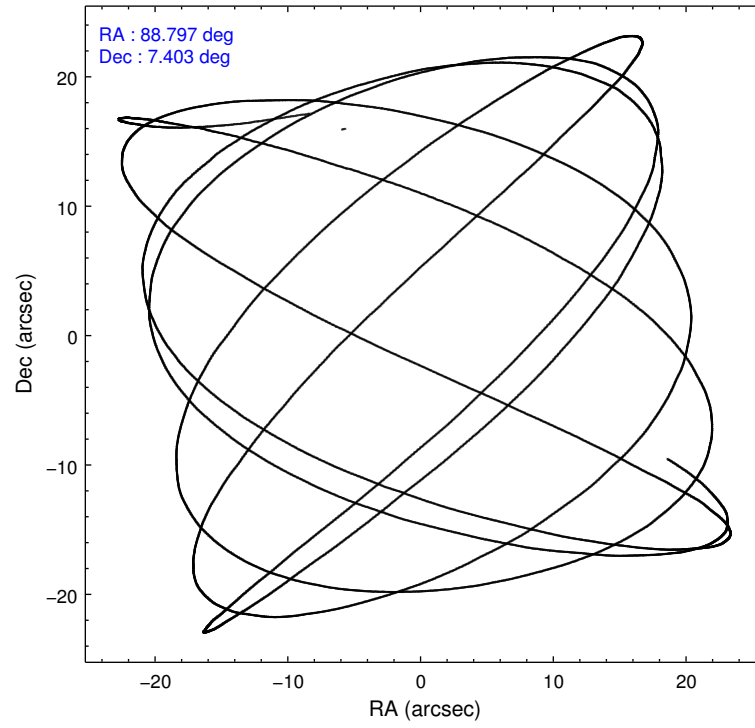
Level 1 Events

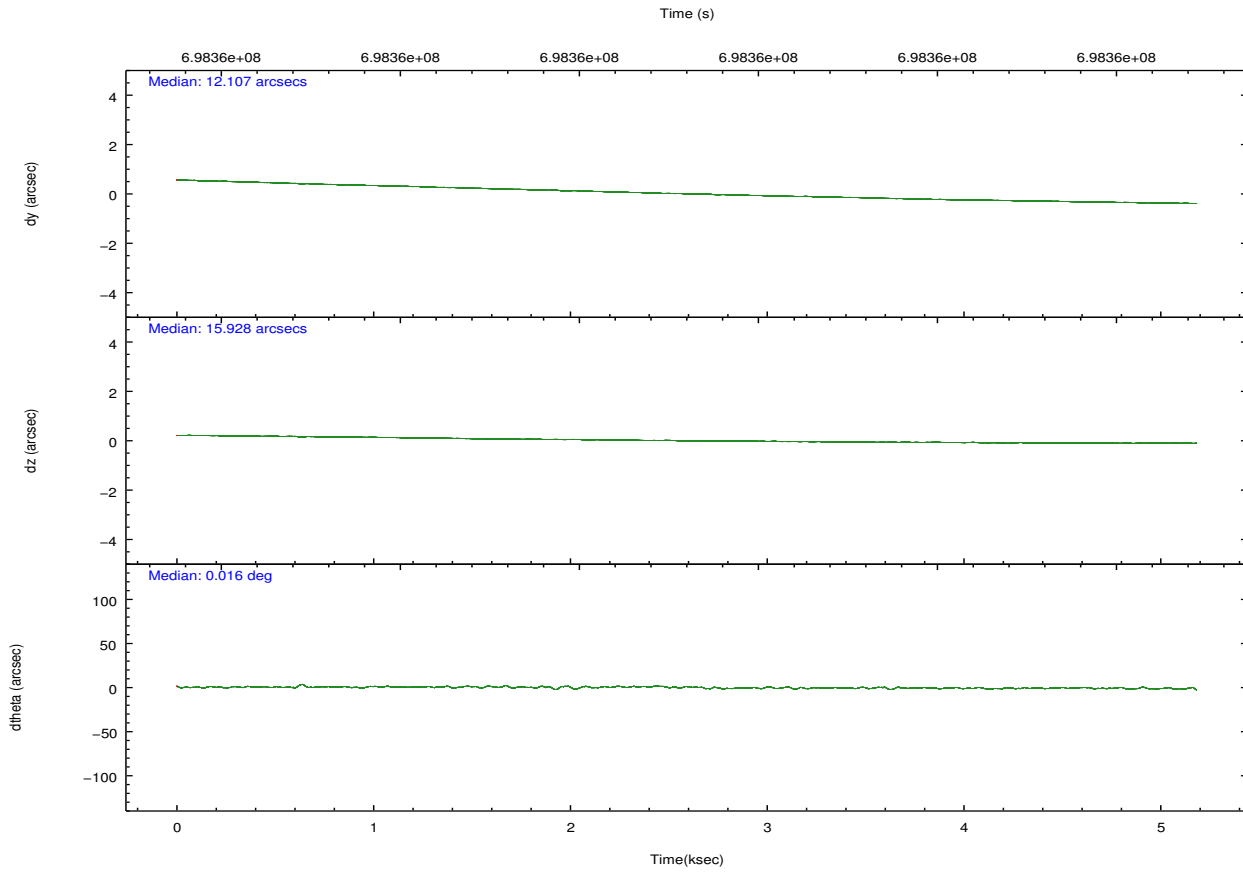
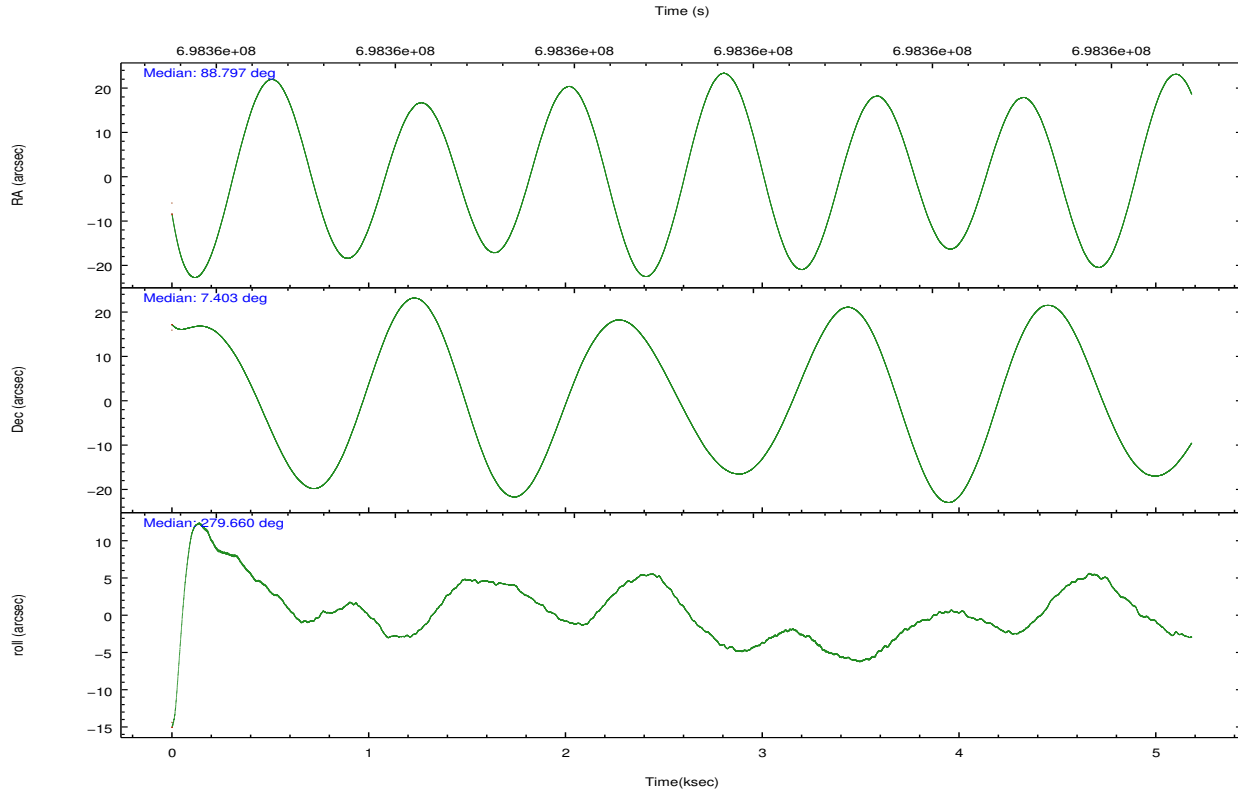
	segment 0
level 1 events	837039
rejected events	142376
rejected %	17%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	88.779165	88.79722157374303			
[deg] Pointing Dec	7.423671	7.403046790733441			
[deg] Pointing Roll	279.754271	279.6563971925877			
[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)	698355206.184000	698354258.29294			
Observation start date	2020-02-17T19:32:17	2020-02-17T19:17:38			
[s] Observation end time (MET)	698360206.184000	698360992.54335			
Observation end date	2020-02-17T20:55:37	2020-02-17T21:09:52			

2.3 Aspect



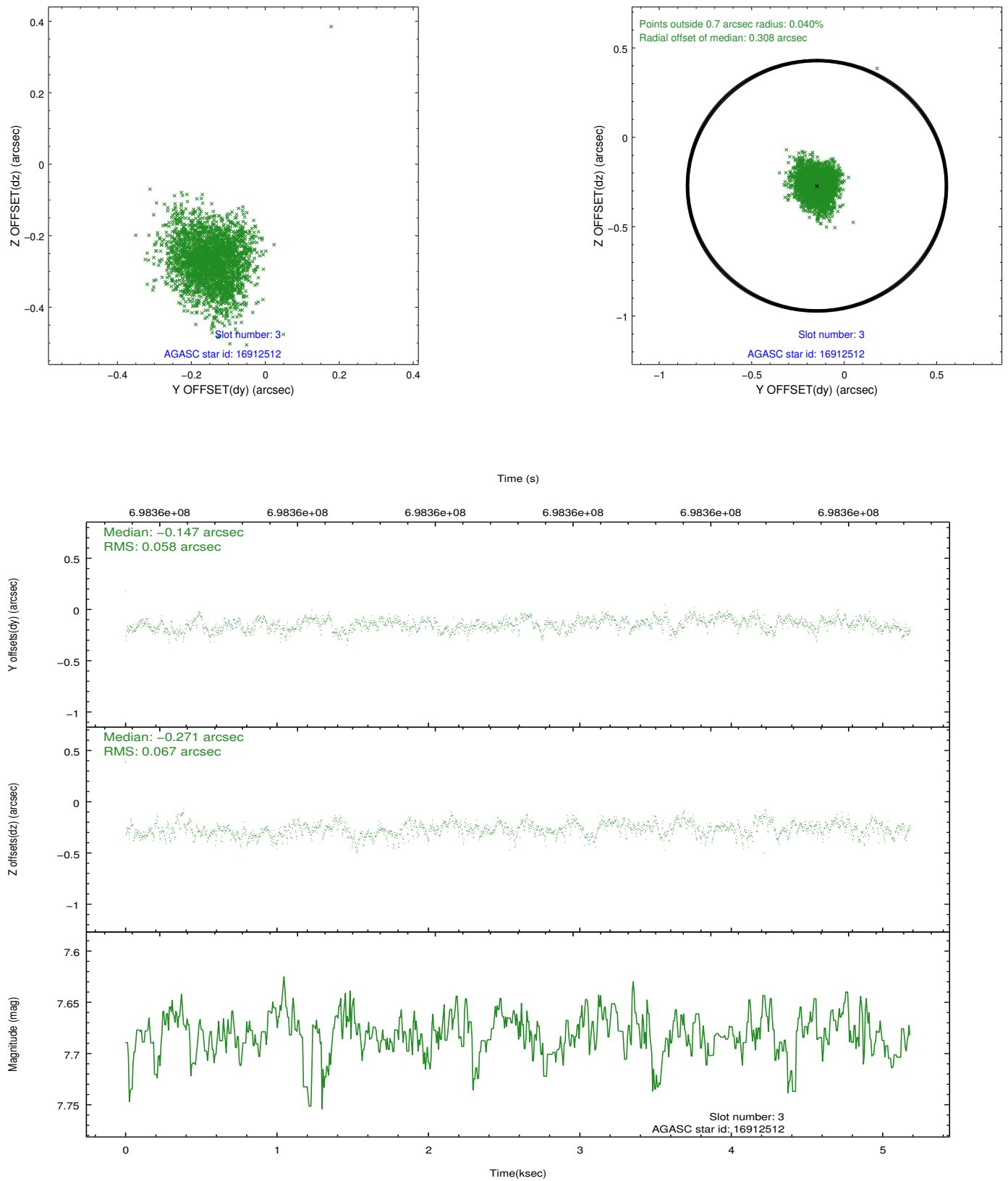


Slot Statistics

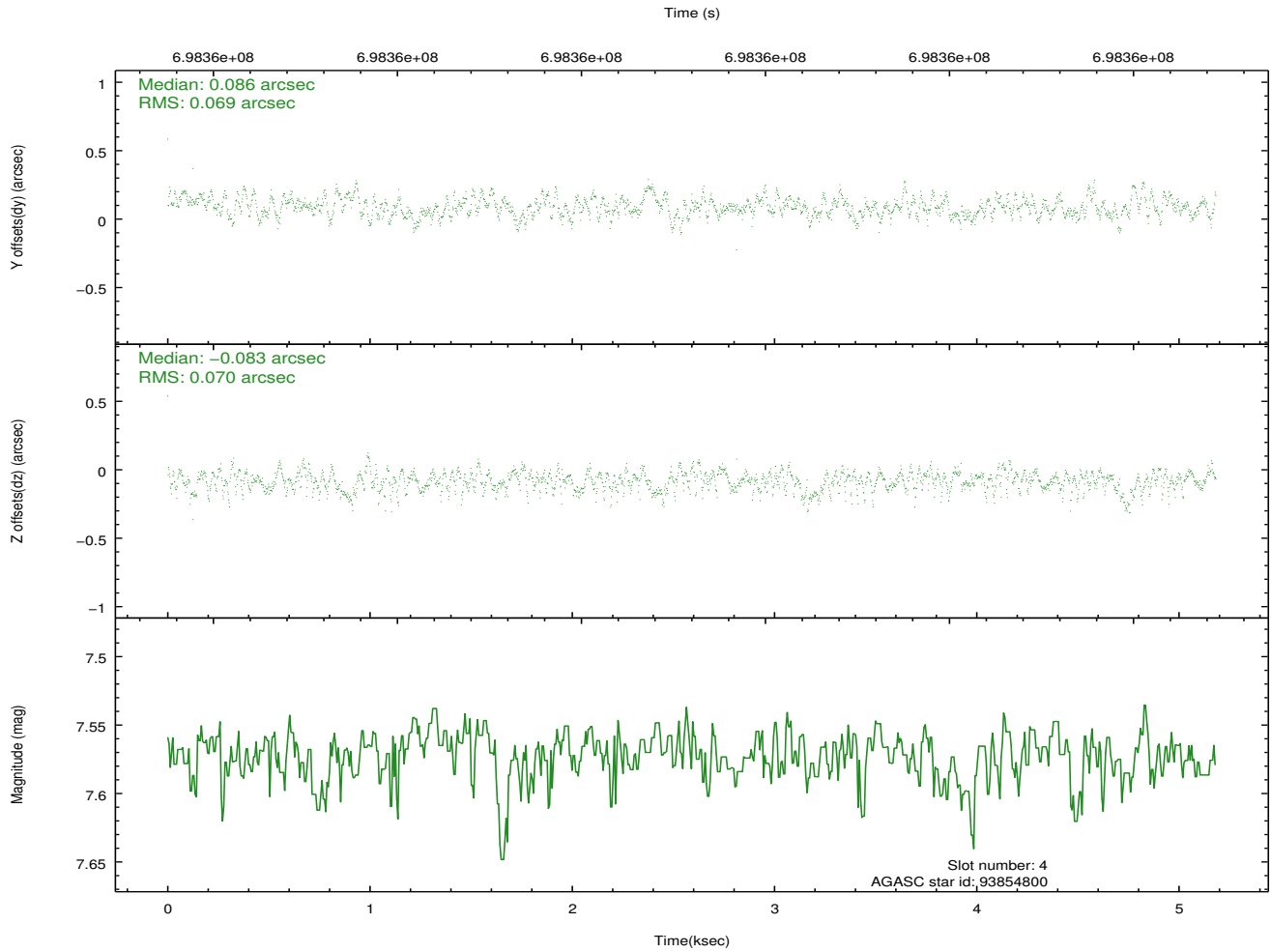
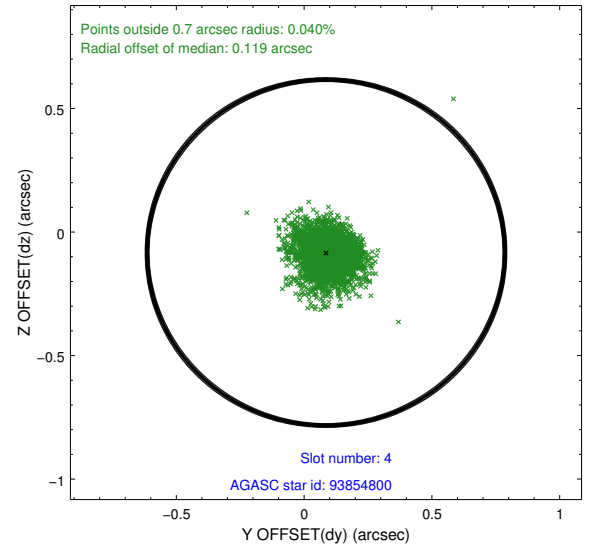
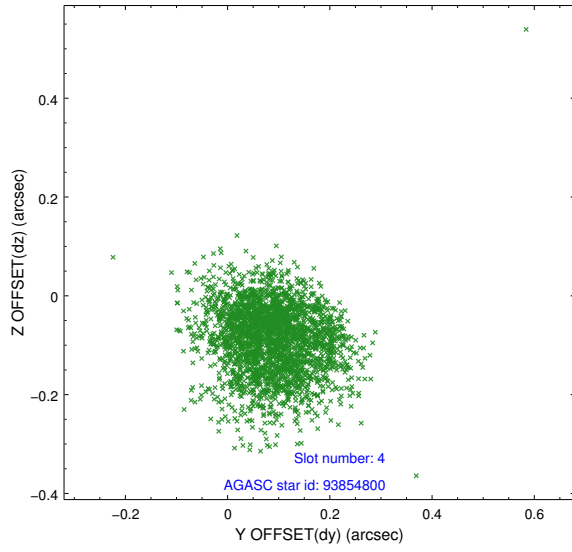
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.05	1265	1.000	-0.441	-0.284	0.012	0.018	0.000000	0.000000	-768.48	-1304
1	FID		HRC-I-2	7.05	1265	1.000	0.292	-0.056	0.014	0.022	0.000000	0.000000	844.28	-1306
2	FID		HRC-I-4	7.05	1265	1.000	0.265	0.248	0.006	0.011	0.000000	0.000000	1275.99	997
3	GUIDE	used	16912512	7.68	2528	1.000	-0.147	-0.271	0.094	0.152	88.651510	7.129862	966.06	-627
4	GUIDE	used	93854800	7.57	2529	1.000	0.086	-0.083	0.103	0.167	88.376308	7.655454	-1063.86	-1273
5	GUIDE	used	93855056	7.62	2528	1.000	-0.333	0.171	0.130	0.208	88.619705	8.054343	-2333.28	-174
6	GUIDE	used	93856056	7.96	2527	1.000	0.295	0.040	0.097	0.160	88.147460	7.547925	-823.84	-2144
7	GUIDE	used	93727304	8.24	2527	1.000	0.103	0.148	0.106	0.164	88.040179	7.731431	-1539.85	-2409

2.4 Star Slots

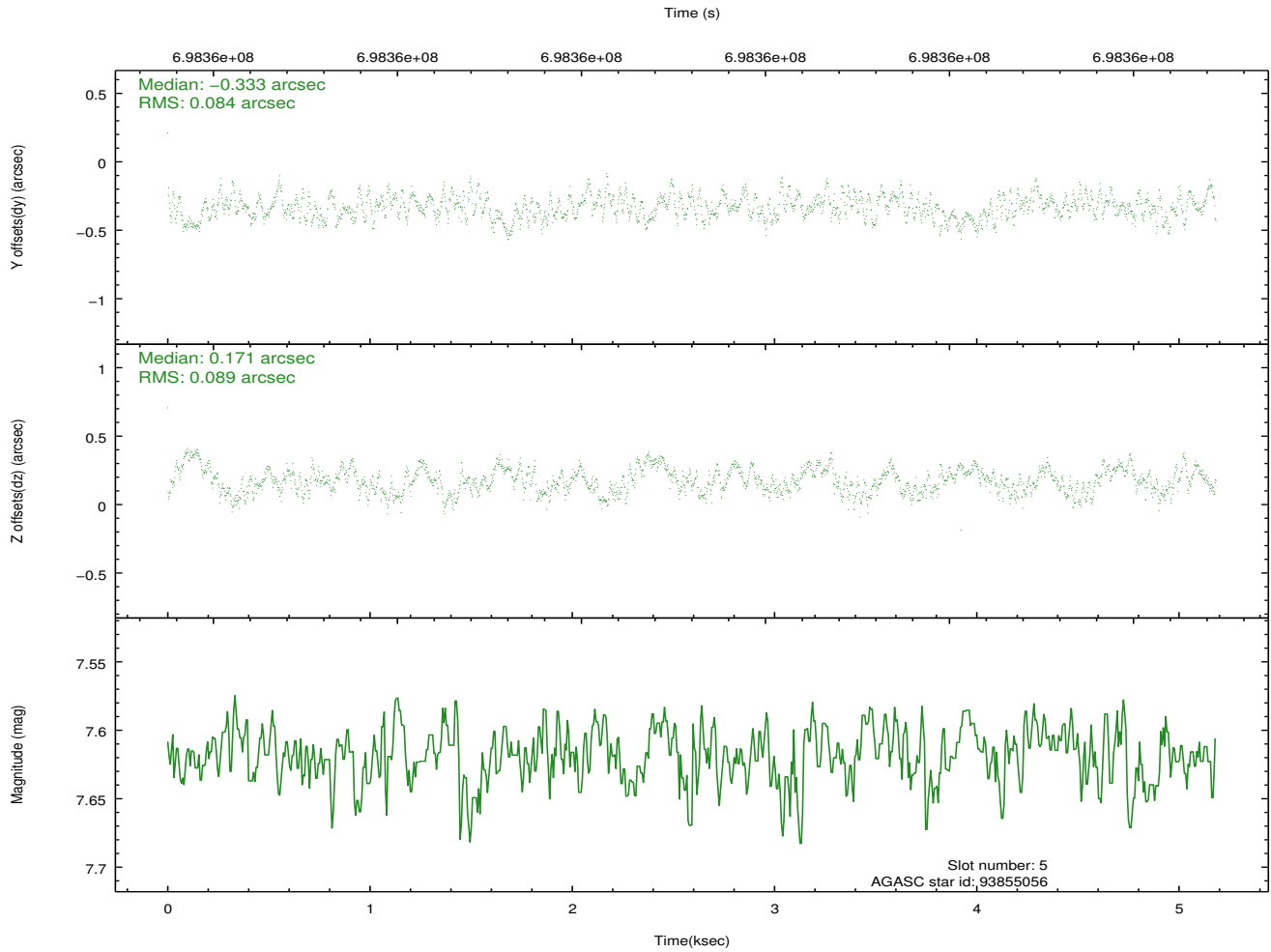
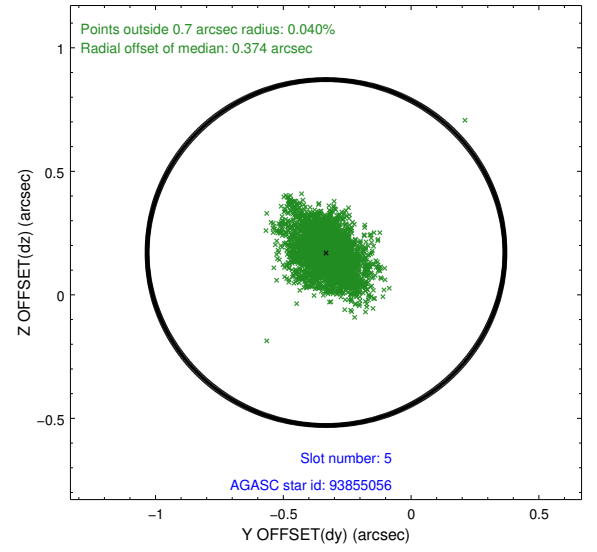
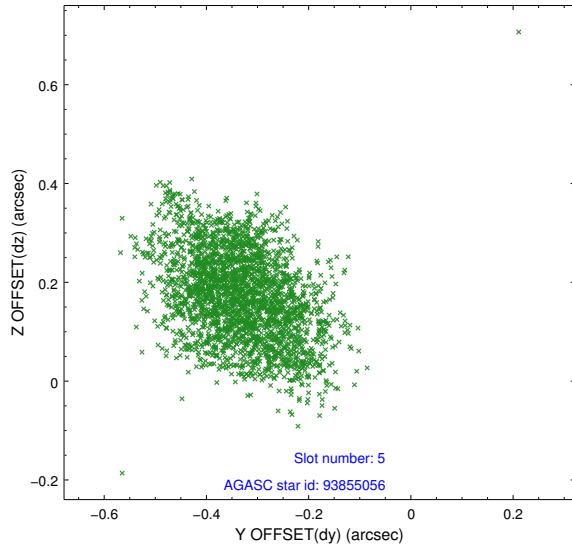
2.4.1 Slot 3



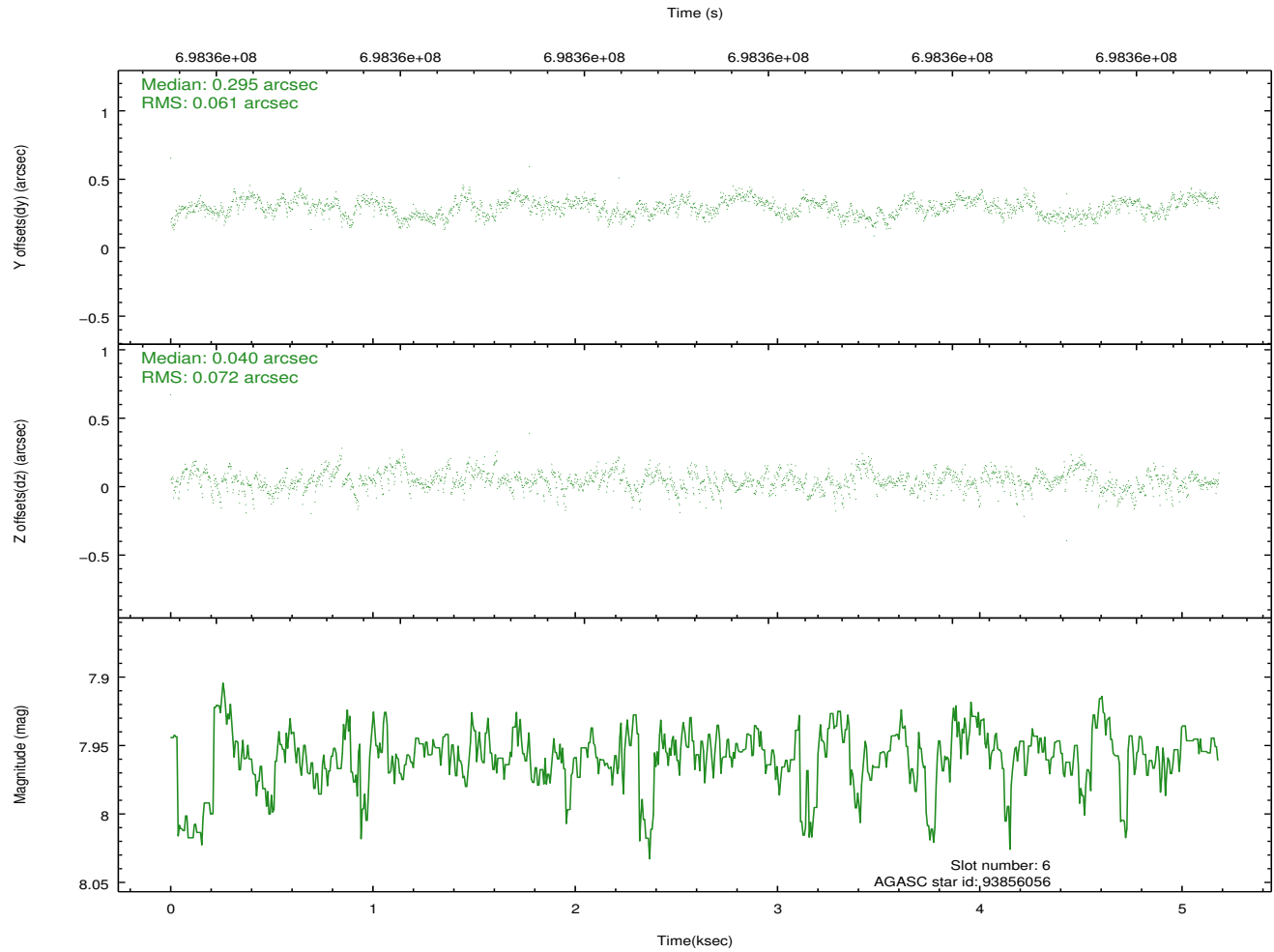
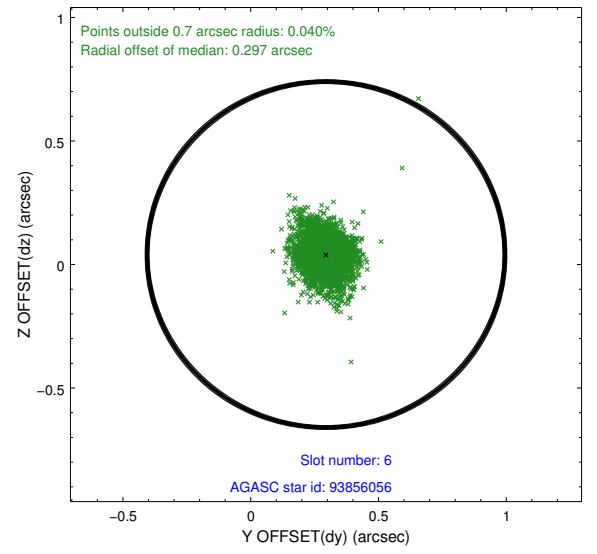
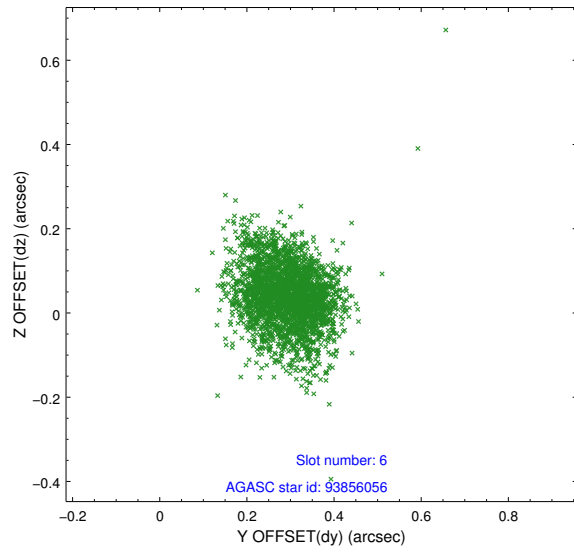
2.4.2 Slot 4



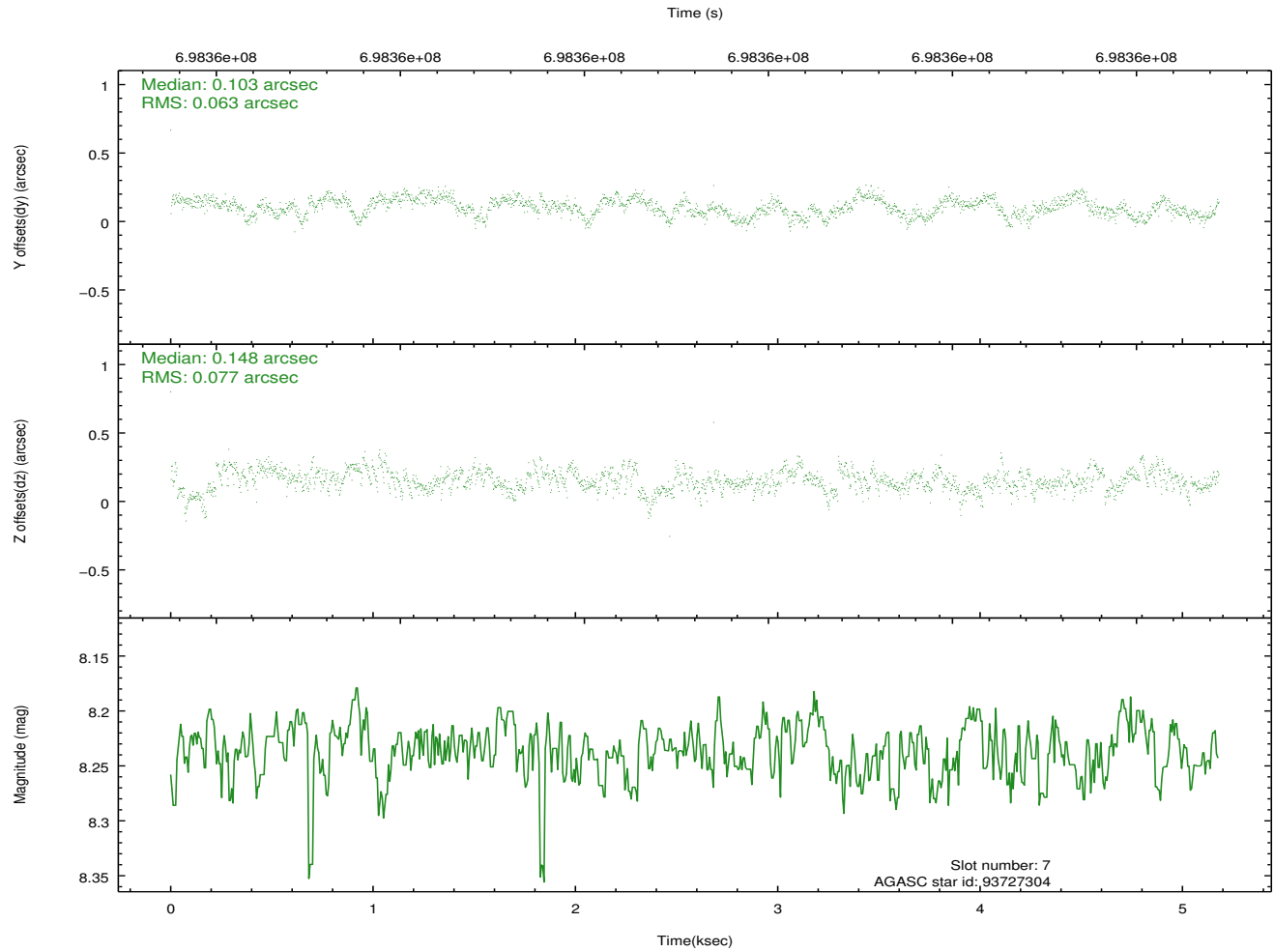
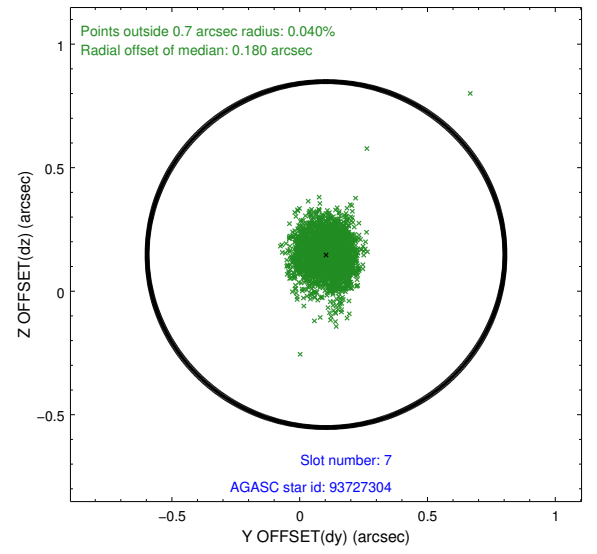
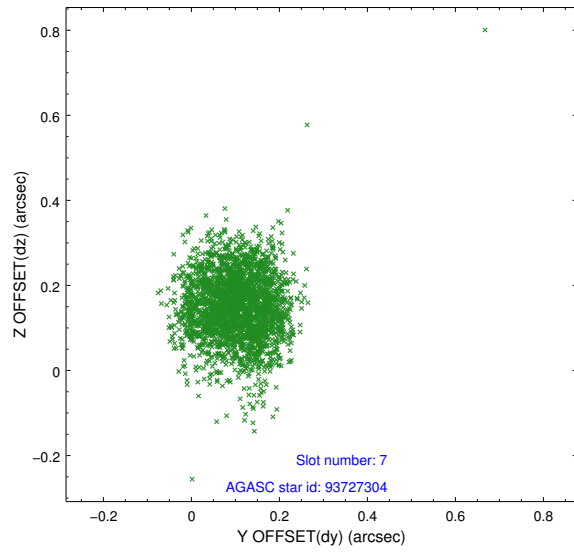
2.4.3 Slot 5



2.4.4 Slot 6

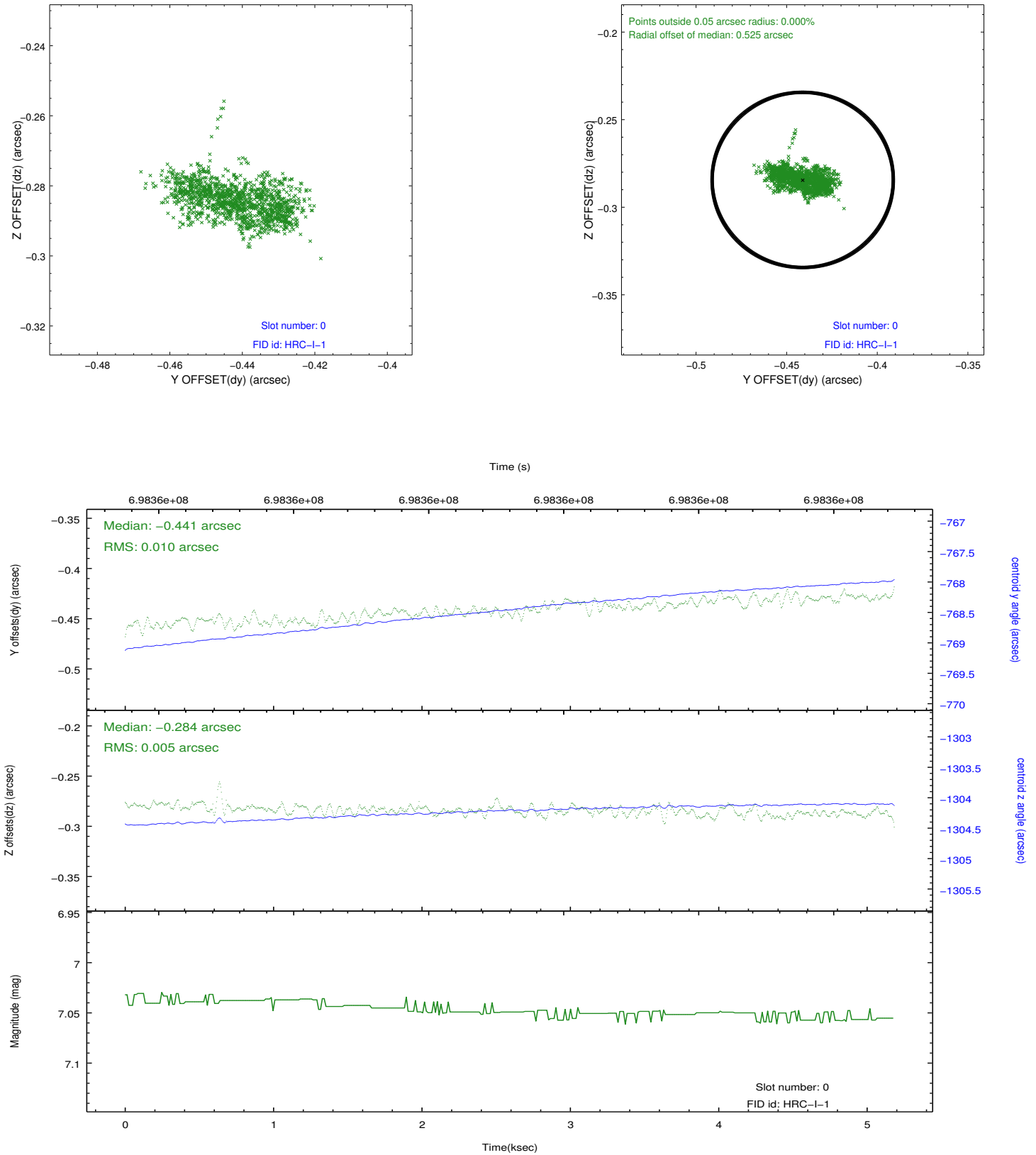


2.4.5 Slot 7

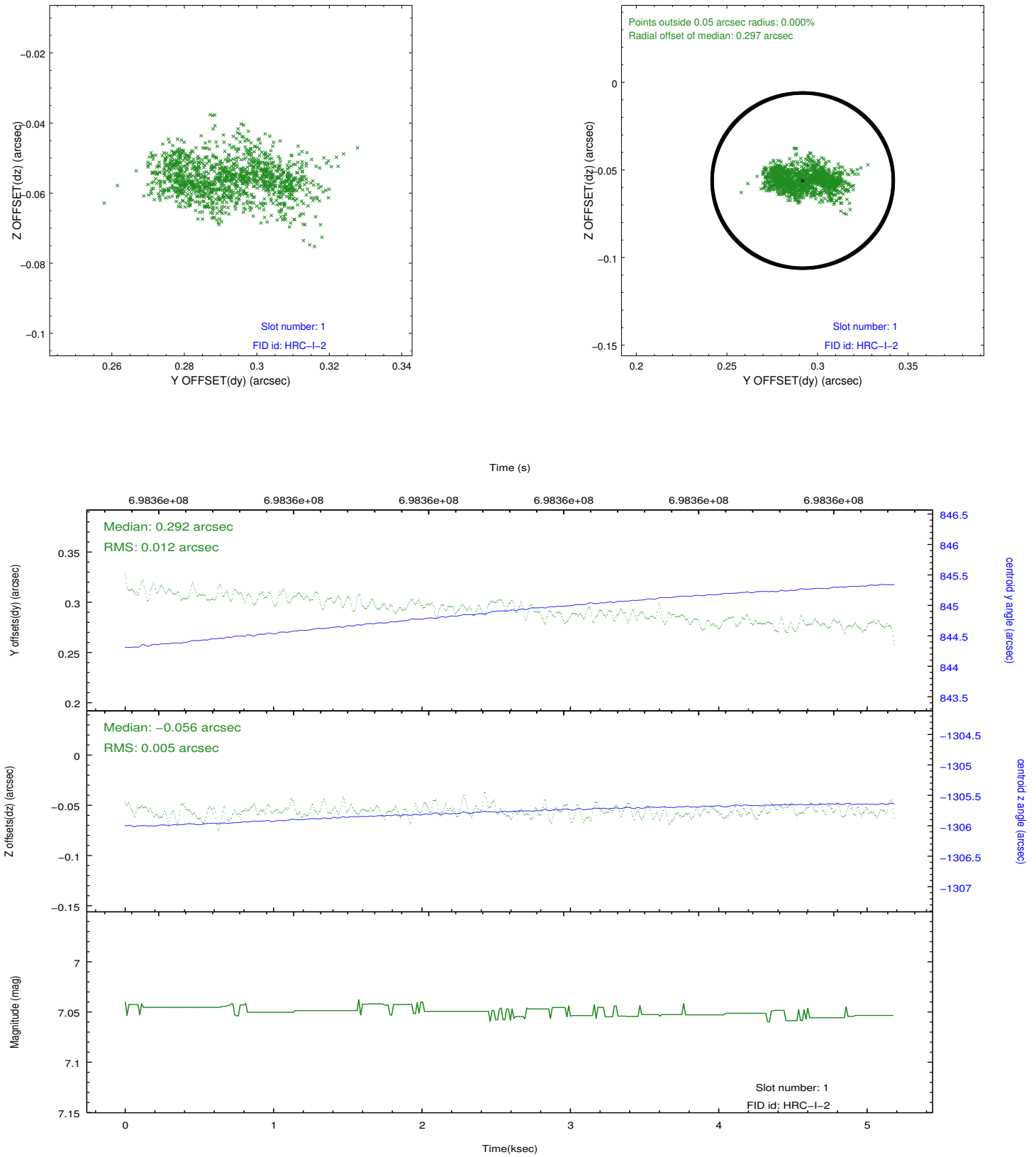


2.5 FID Slots

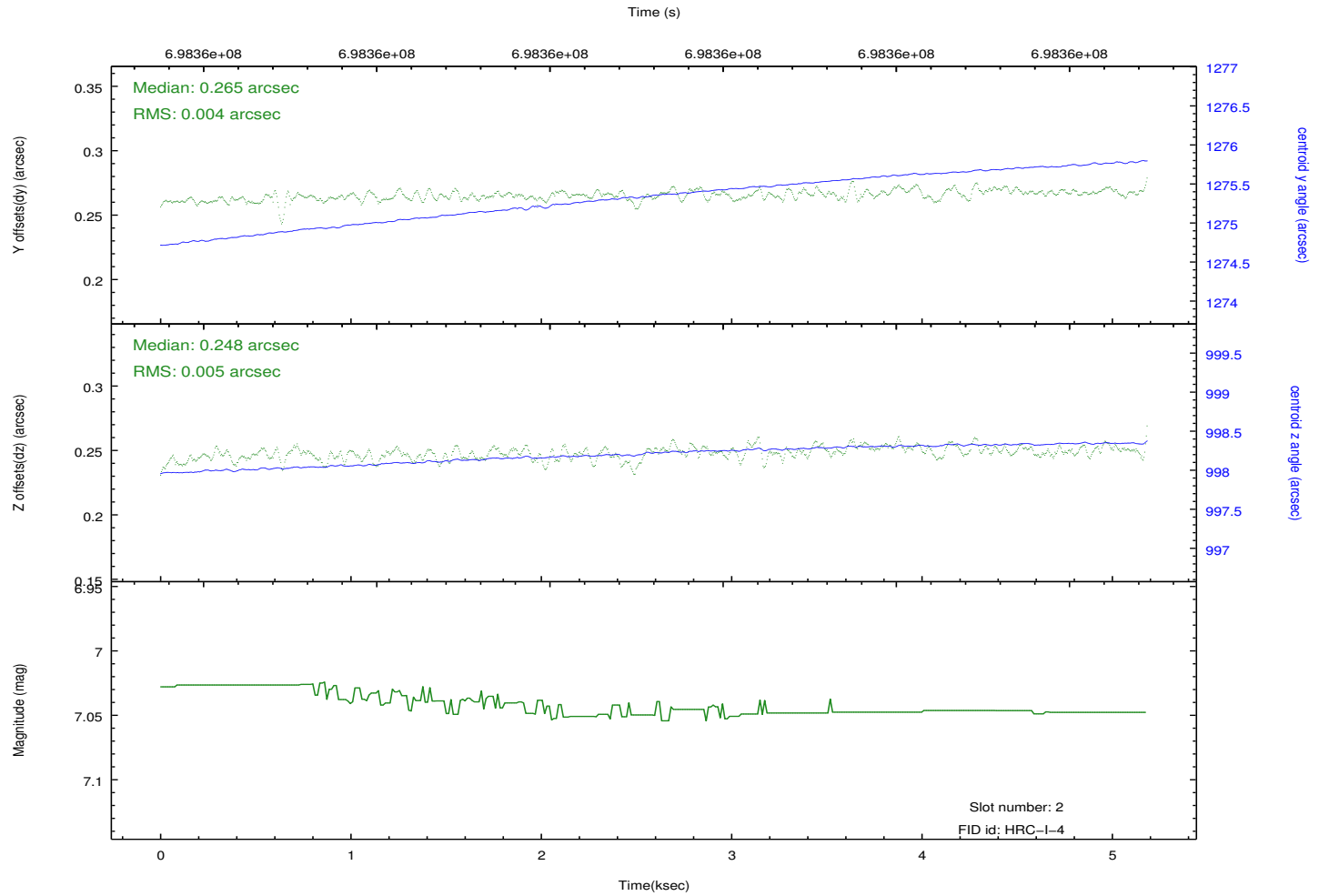
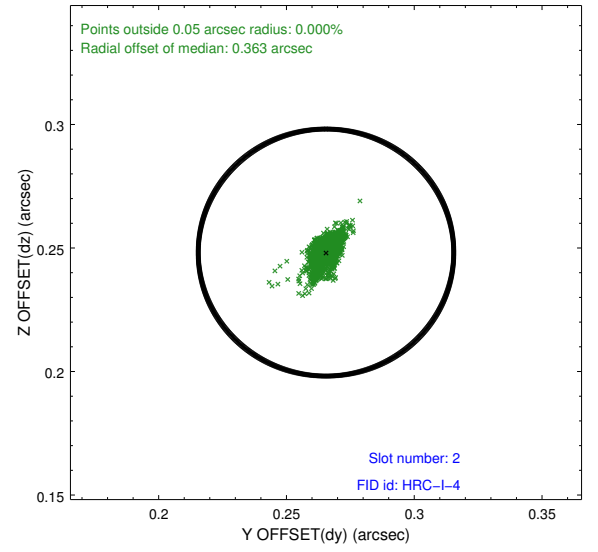
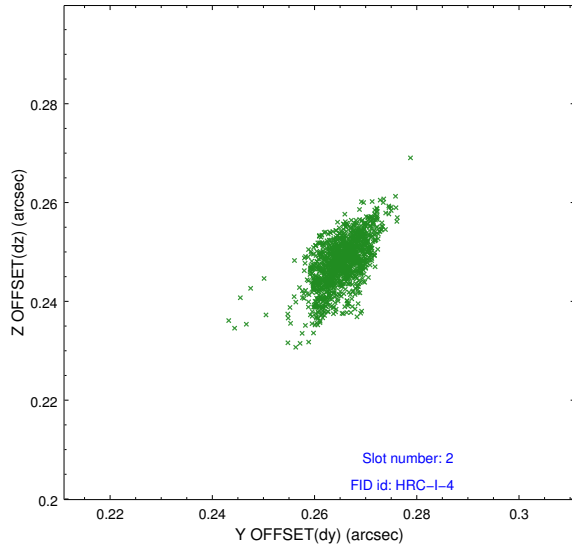
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2020.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1598503124714

A.2 Comments