

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21746 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Sep 4 2019

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

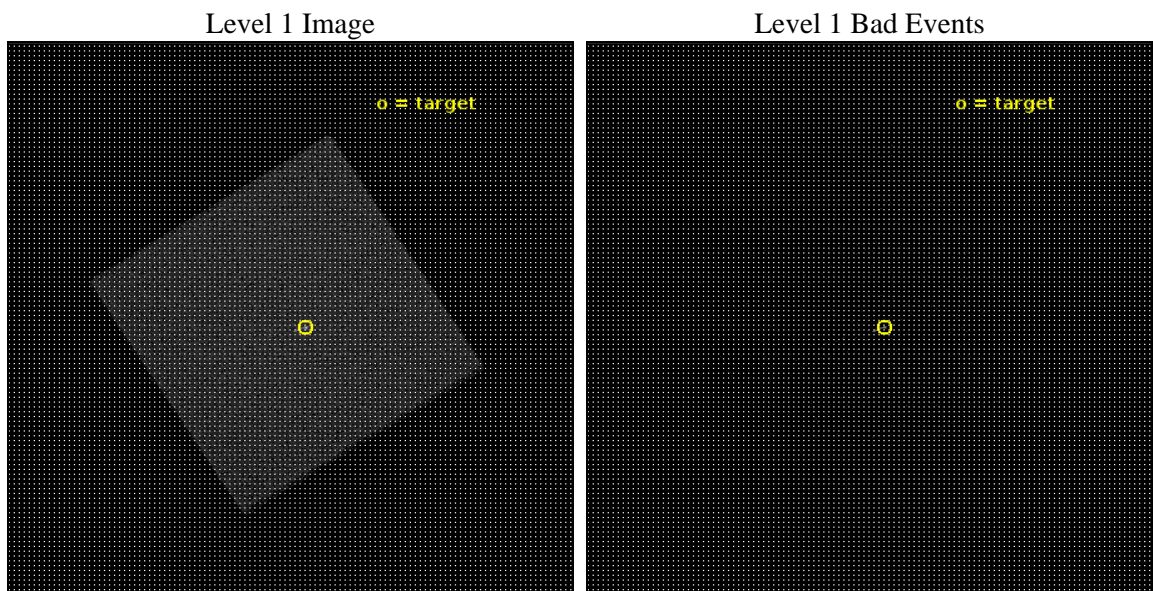
seq_num	291432	Sequence number
obs_id	21746	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.21129558482	Nominal RA [deg]
dec_nom	45.746132172929	Nominal Dec [deg]
roll_nom	192.55555157892	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1190.281321764	[s]
livetime	1172.4838764652	Ontime multiplied by DTCOR
l2events	154561	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	10.8	Processing system revision	ontime	1190.281321764	[s]
caldbver	4.8.4	 	l1events	254118	Number of level 1 events
date	2019-09-04T14:31:48	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

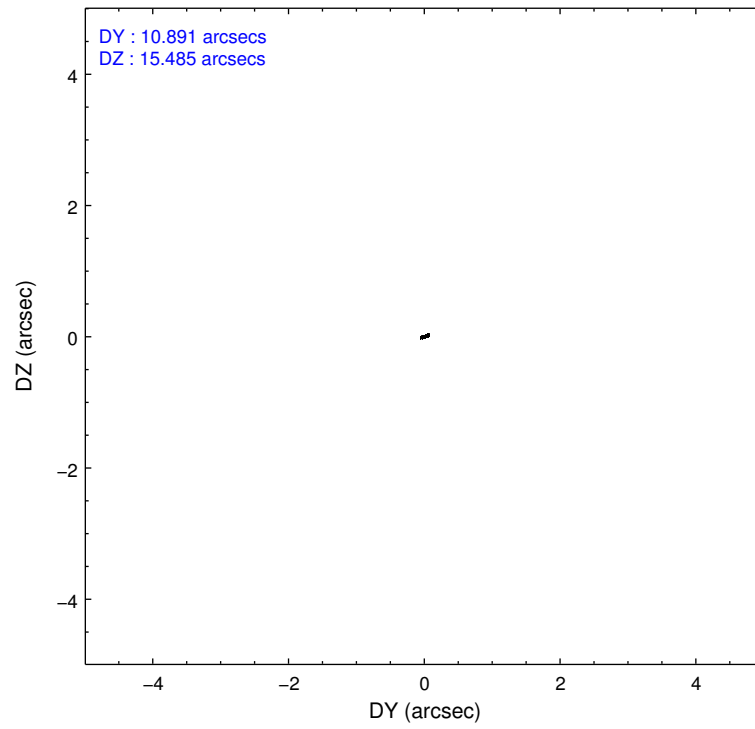
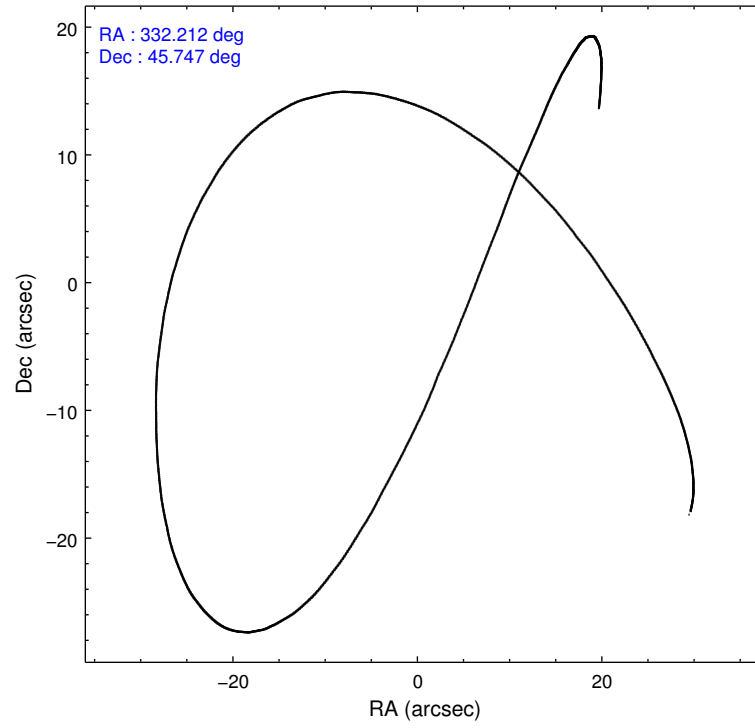
	segment 0
level 1 events	254118
rejected events	53703
rejected %	21%

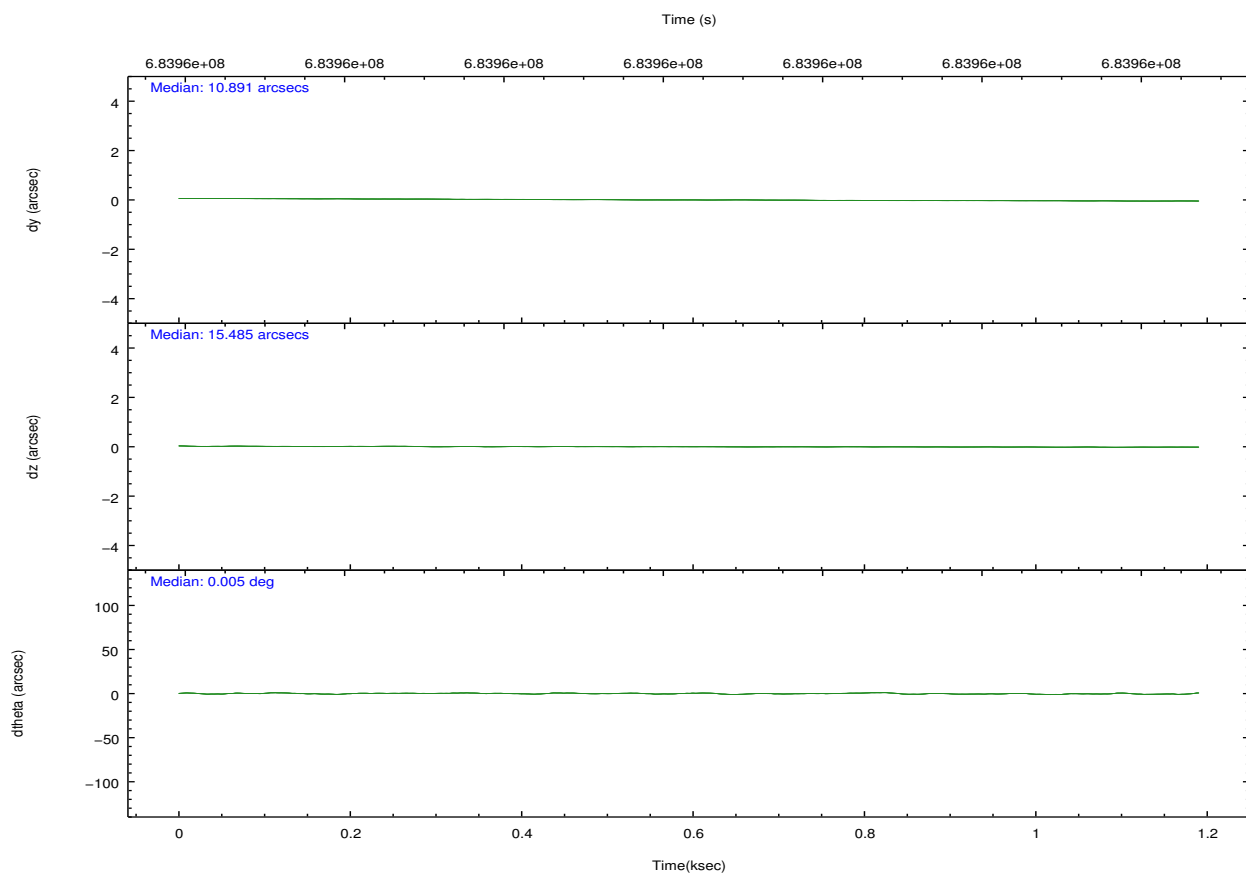
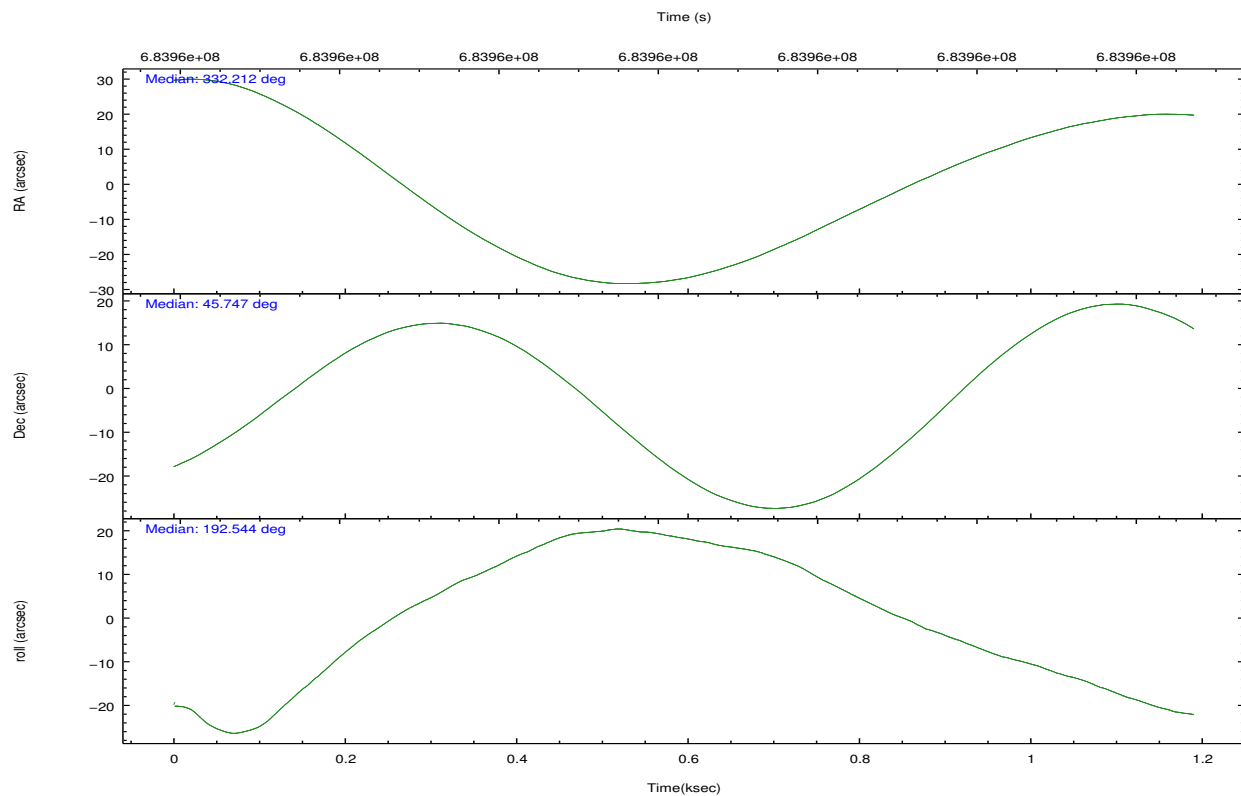
2.2 Compared Parameters

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	332.239051	332.211295584821
[deg] Pointing Dec	45.764365	45.74613217292861
[deg] Pointing Roll	192.631097	192.5555515789193
[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)	683955623.184000	683955247.0488501
Observation start date	2019-09-04T03:39:14	2019-09-04T03:34:07
[s] Observation end time (MET)	683956623.184000	683956757.38644
Observation end date	2019-09-04T03:55:54	2019-09-04T03:59:17

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

2.3 Aspect



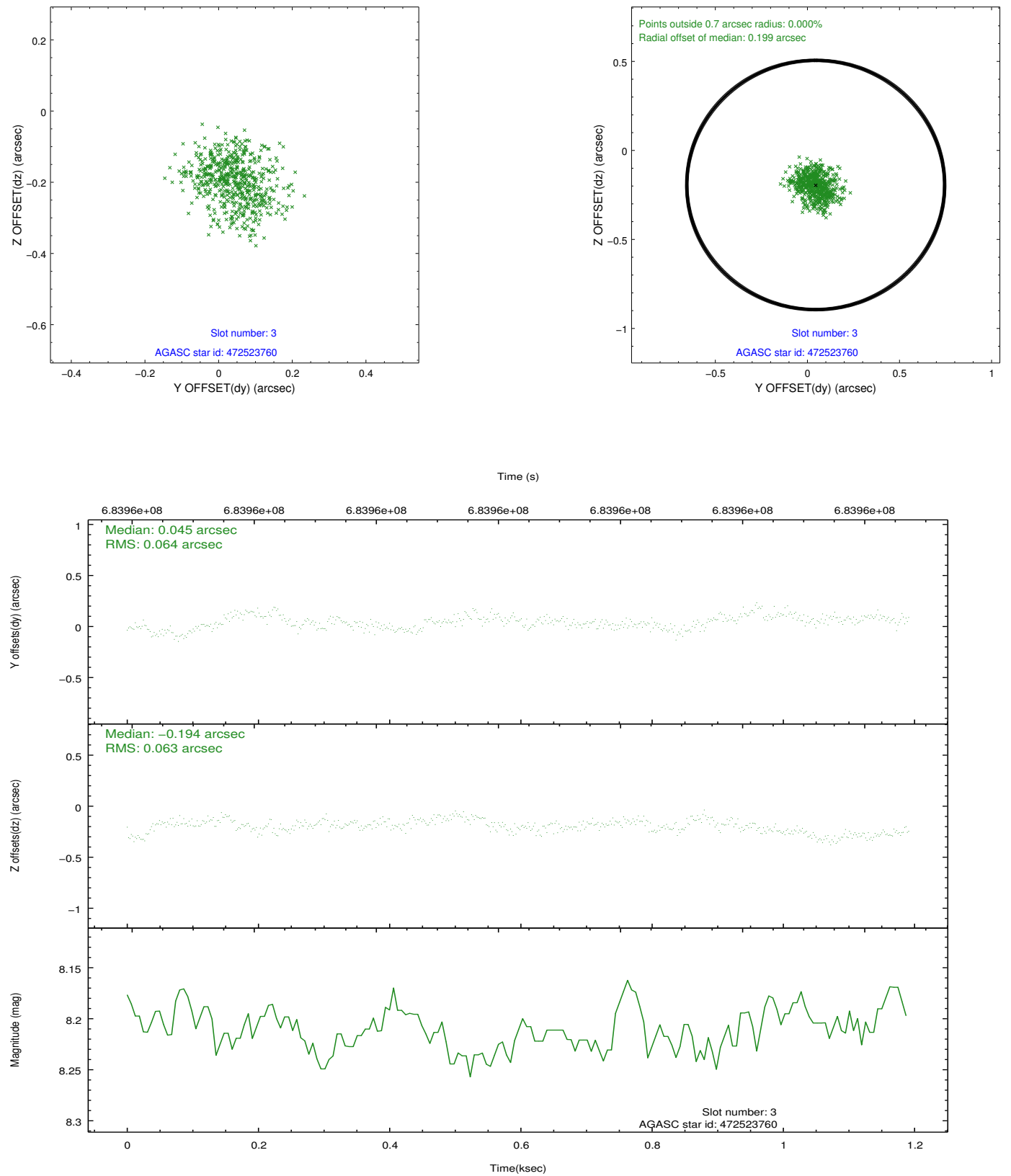


Slot Statistics

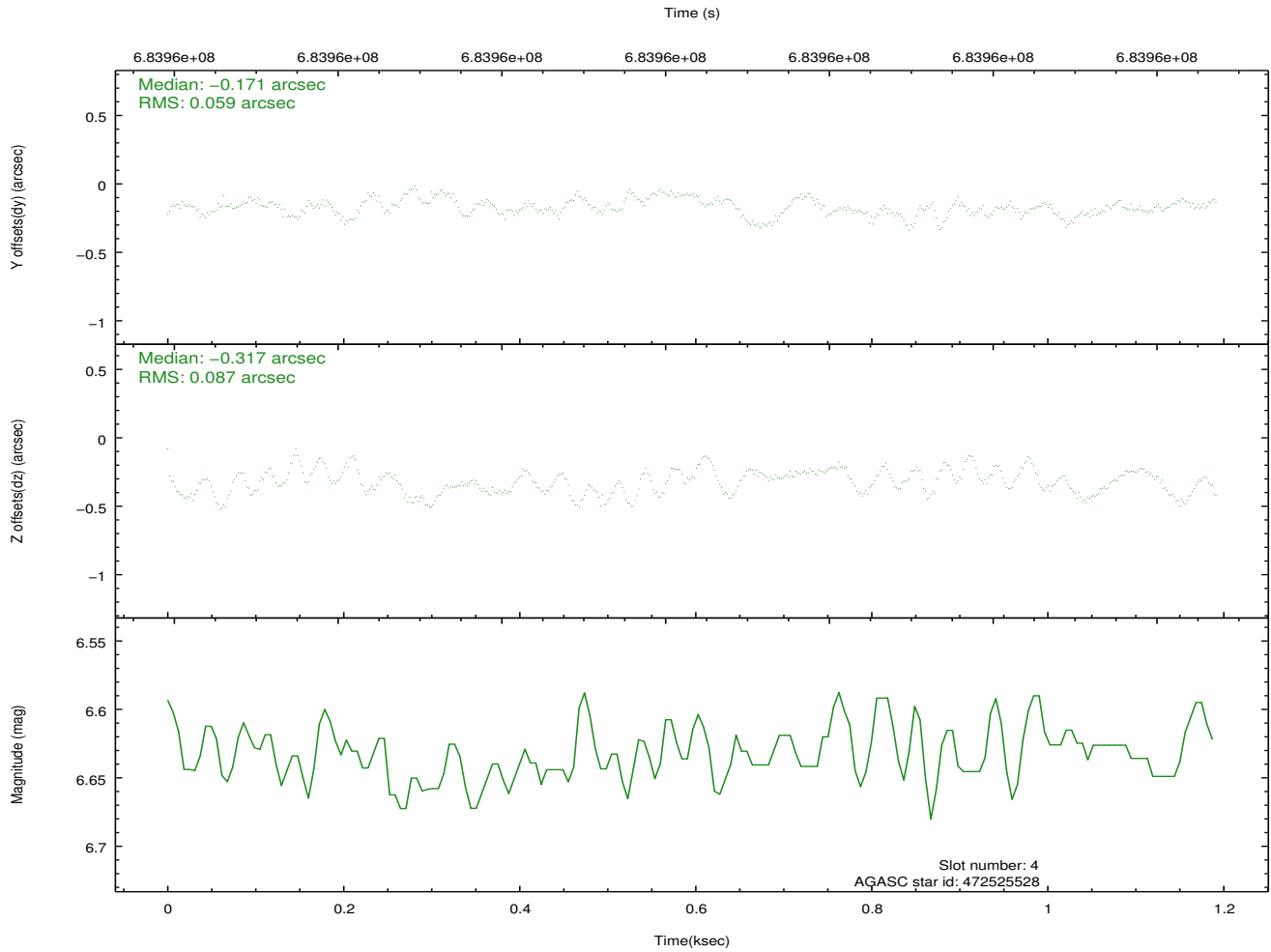
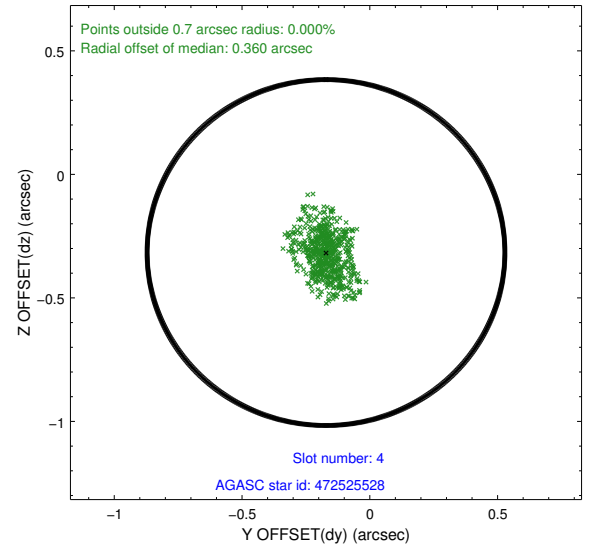
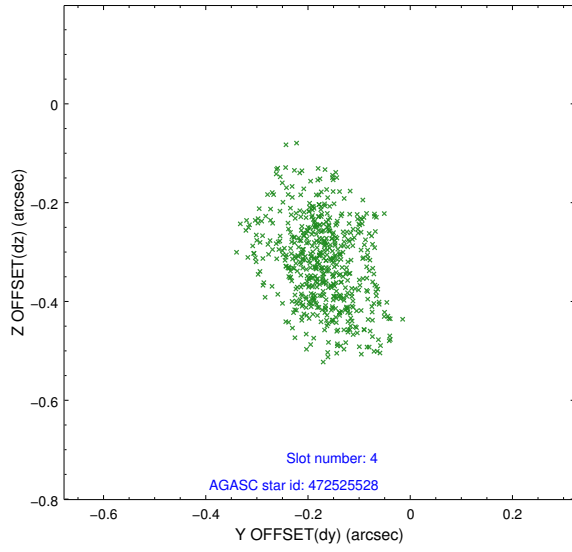
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	291	1.000	-0.244	-0.052	0.006	0.011	0.000000	0.000000	-766.75	-1303
1	FID		HRC-I-2	7.07	291	1.000	0.392	-0.104	0.007	0.012	0.000000	0.000000	843.89	-1309
2	FID		HRC-I-3	7.11	291	1.000	-0.029	0.066	0.006	0.012	0.000000	0.000000	-1192.25	996
3	GUIDE	used	472523760	8.21	582	1.000	0.045	-0.194	0.099	0.151	331.645363	45.403260	1749.44	937
4	GUIDE	used	472525528	6.63	582	1.000	-0.171	-0.317	0.112	0.183	331.551102	45.248694	2109.89	1426
5	GUIDE	used	472535576	7.84	582	1.000	0.105	0.386	0.140	0.268	331.438373	46.291802	1532.33	-2293
6	GUIDE	used	472527720	7.00	582	1.000	-0.106	-0.340	0.110	0.164	331.460205	45.112509	2445.87	1846
7	GUIDE	used	472533912	9.11	581	1.000	0.146	0.470	0.194	0.320	331.791136	46.368695	616.14	-2363

2.4 Star Slots

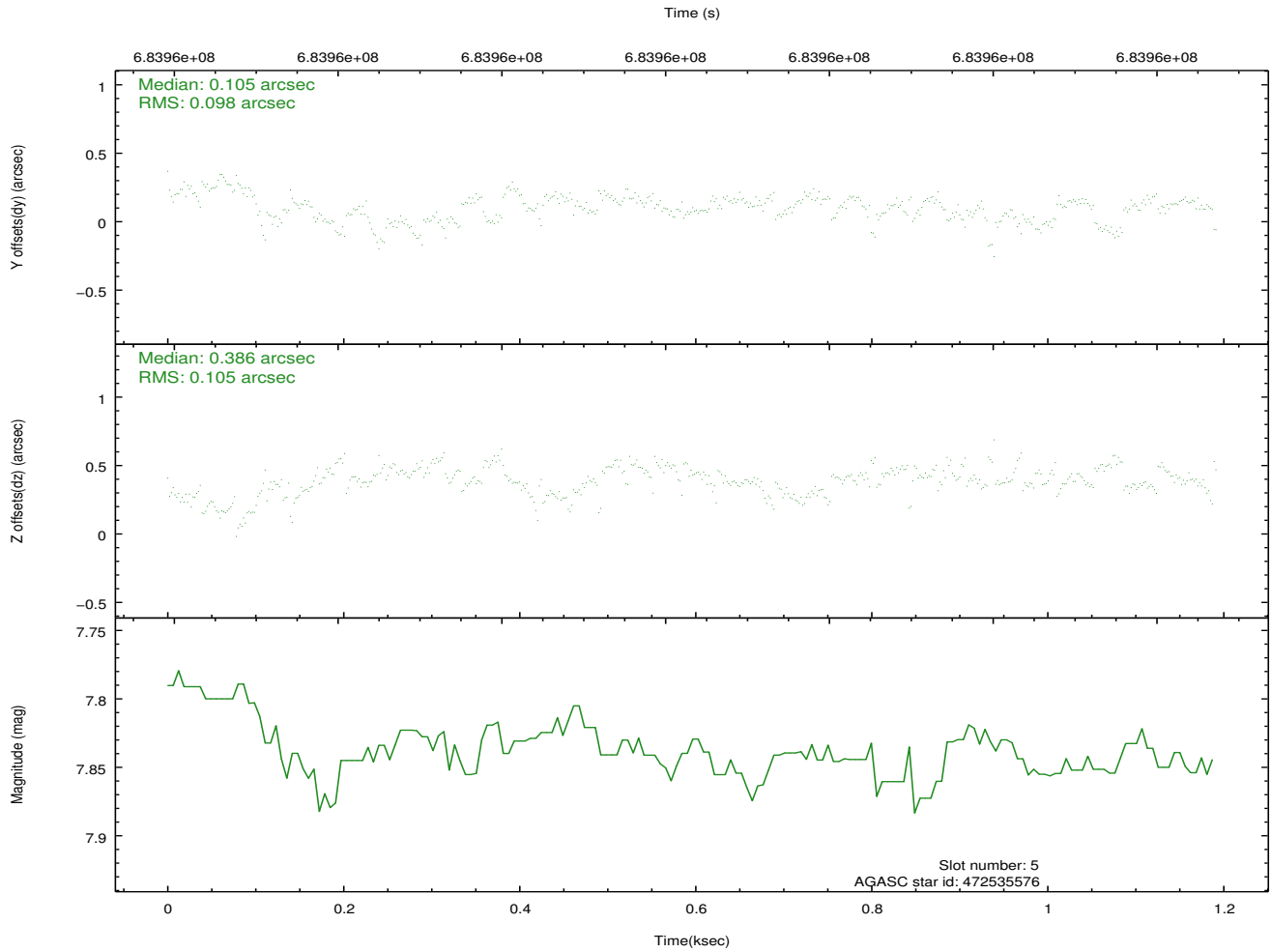
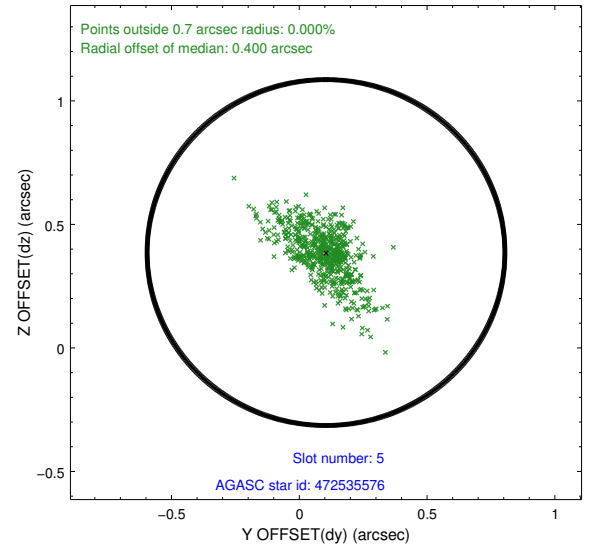
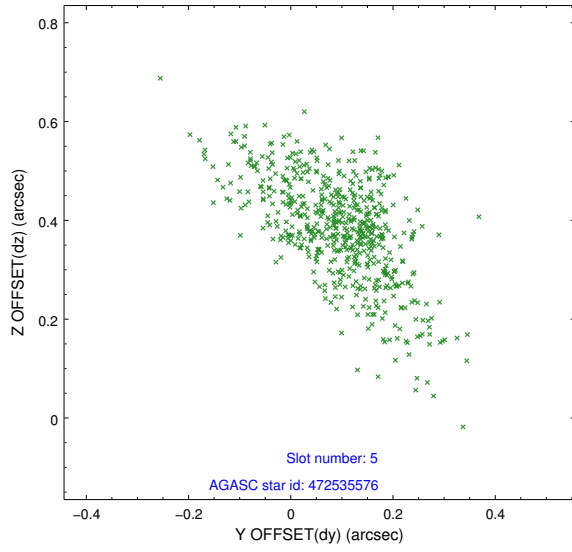
2.4.1 Slot 3



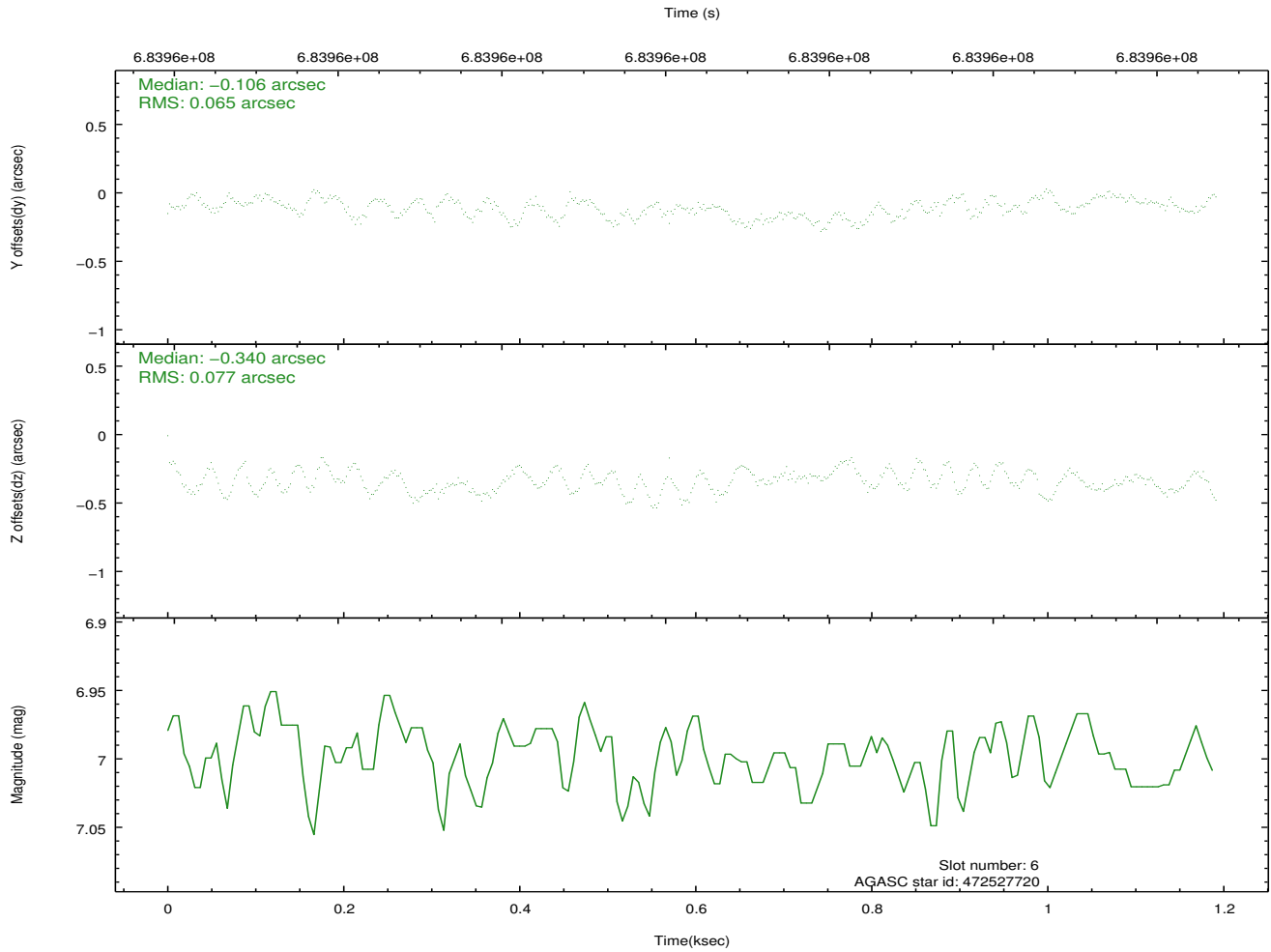
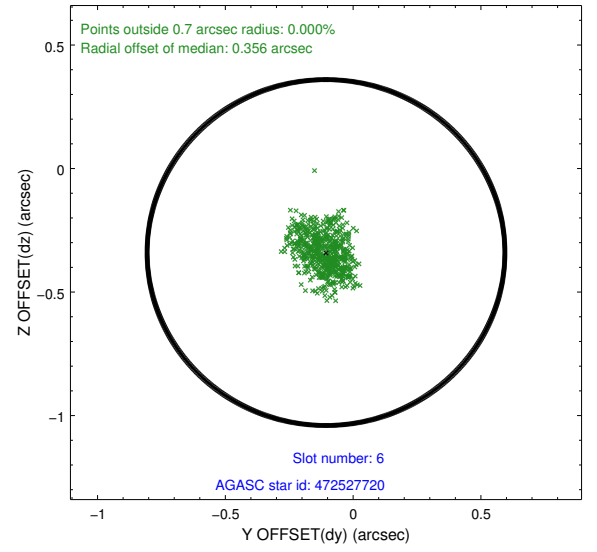
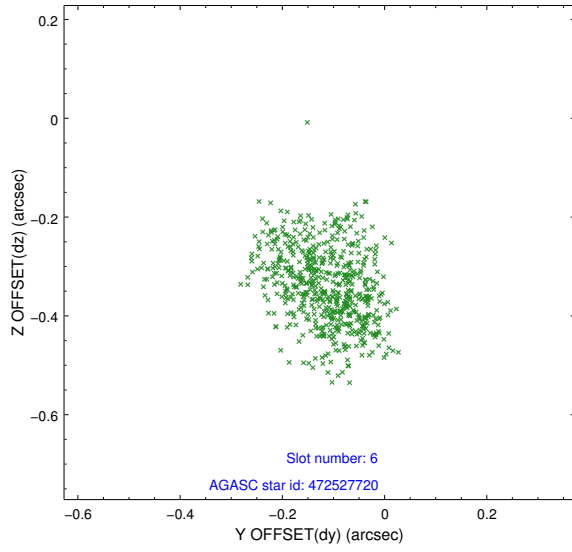
2.4.2 Slot 4



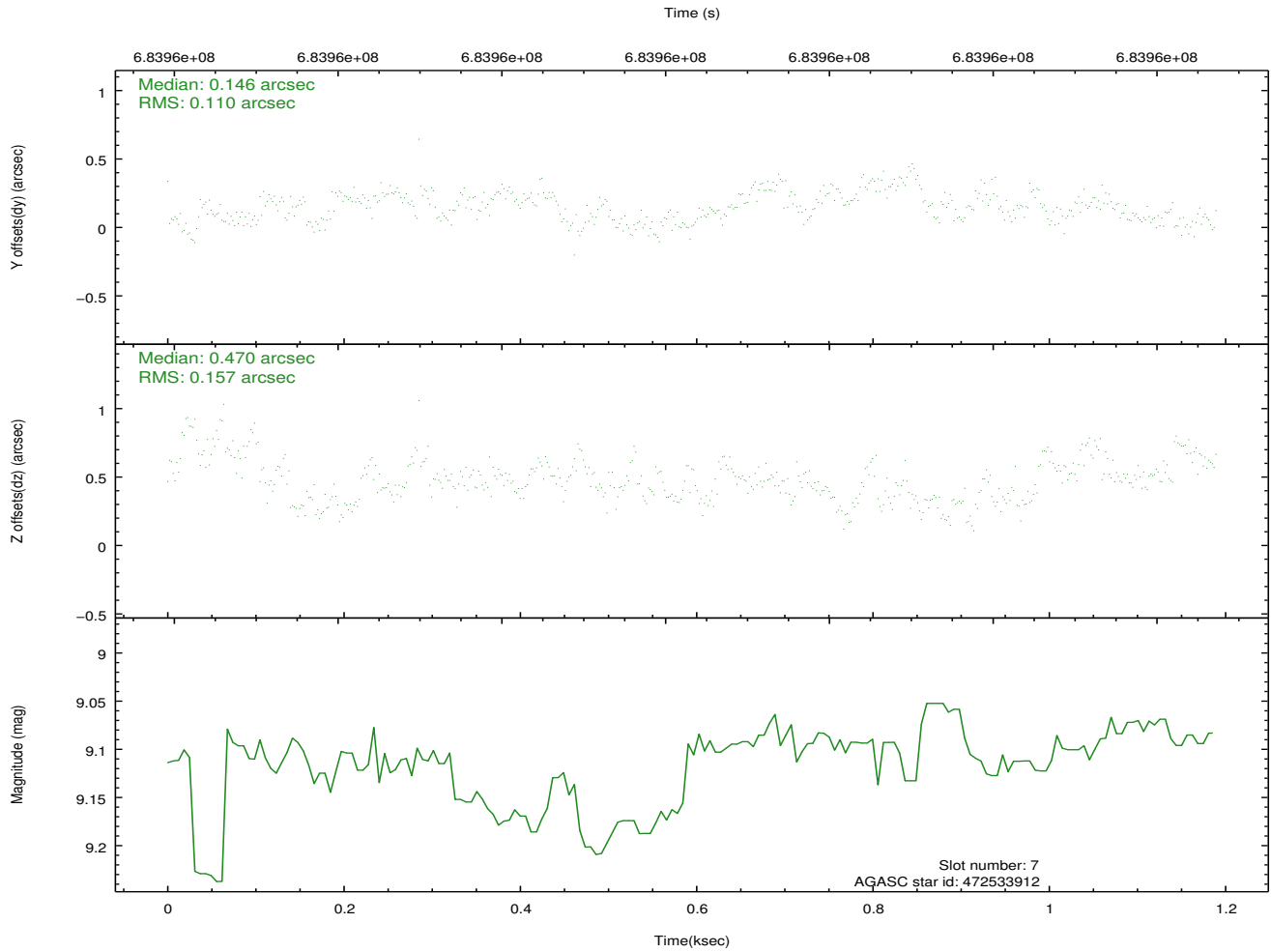
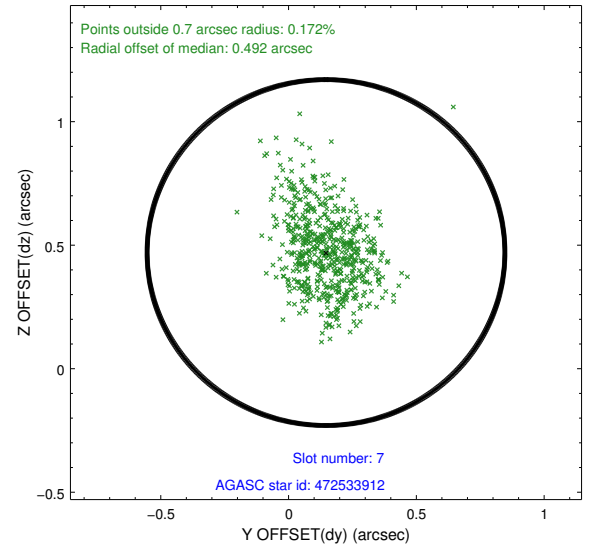
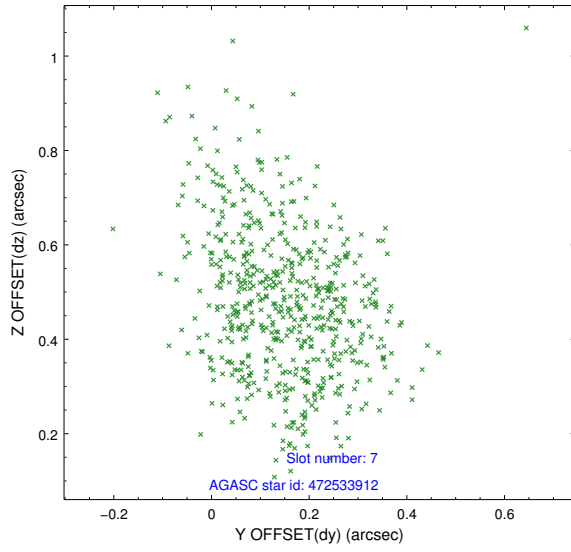
2.4.3 Slot 5



2.4.4 Slot 6

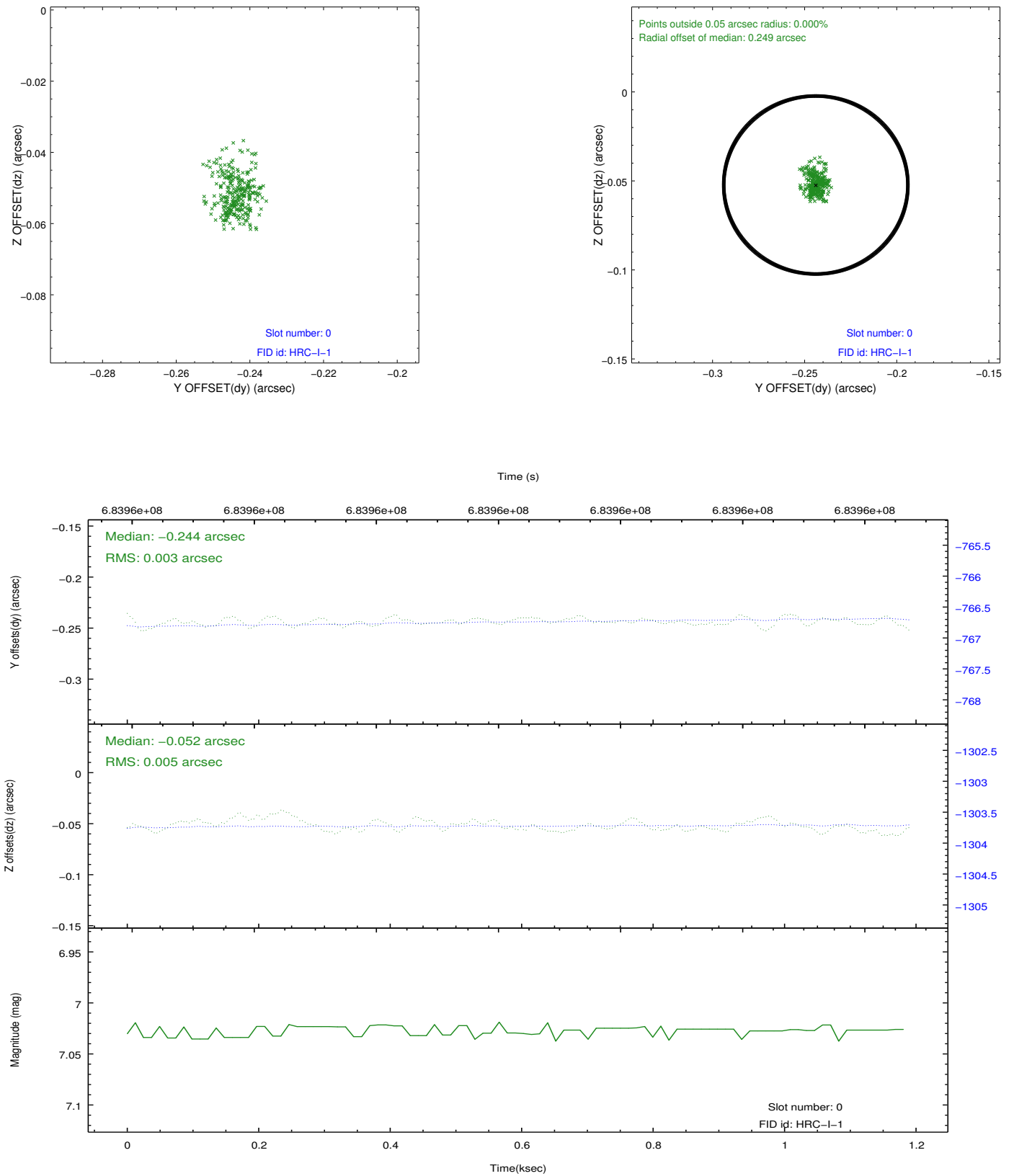


2.4.5 Slot 7

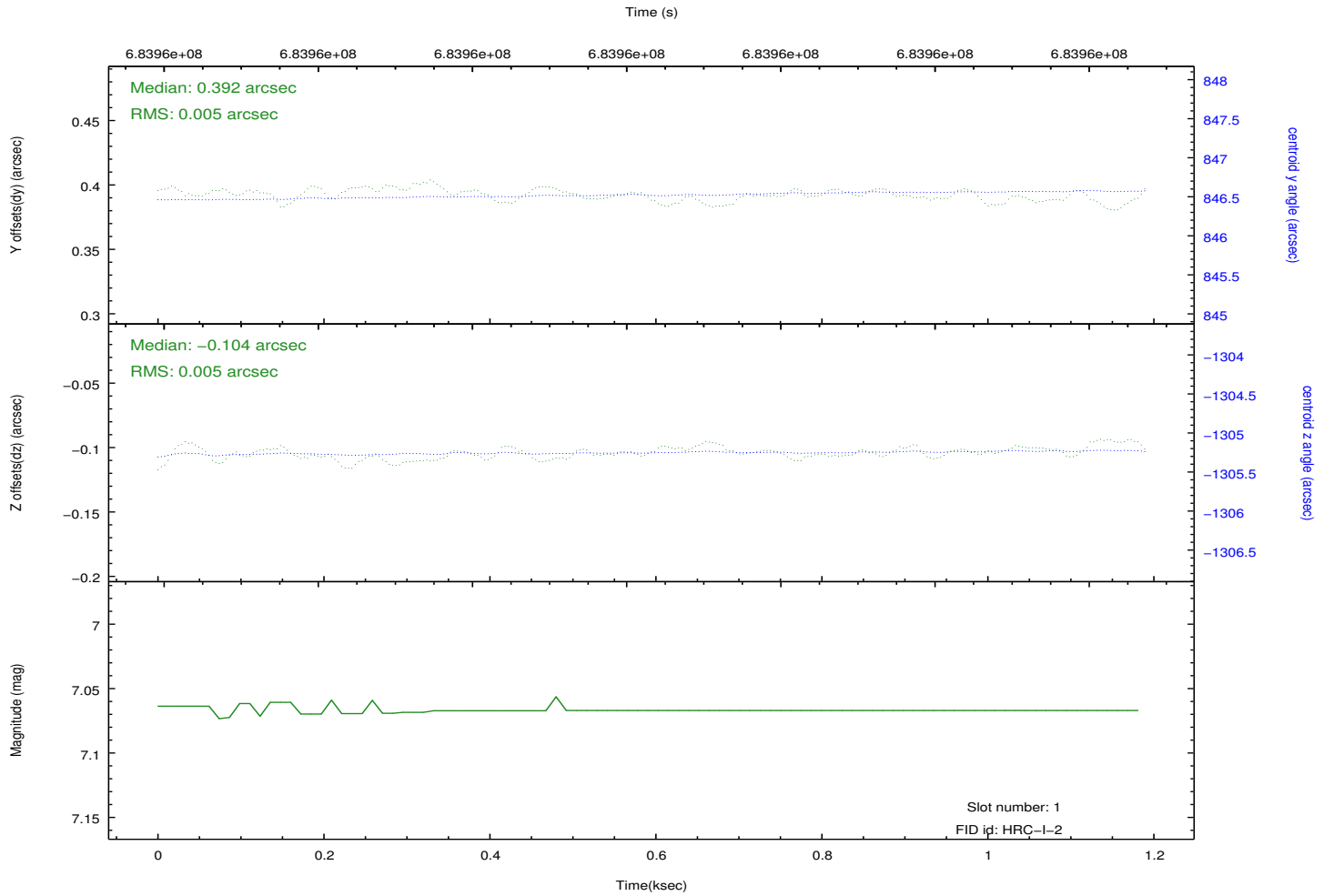
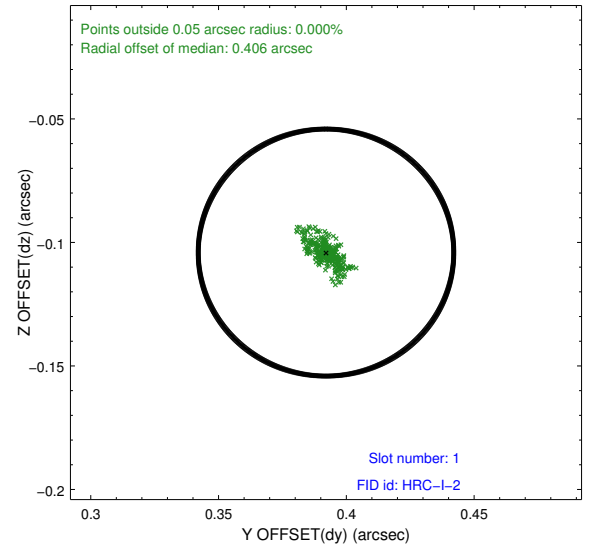
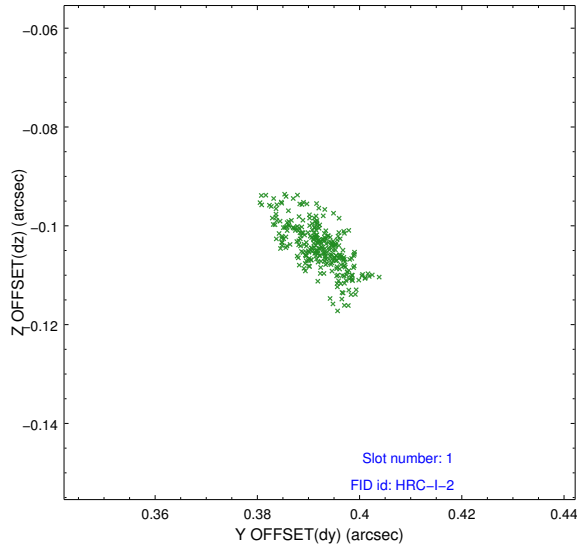


2.5 FID Slots

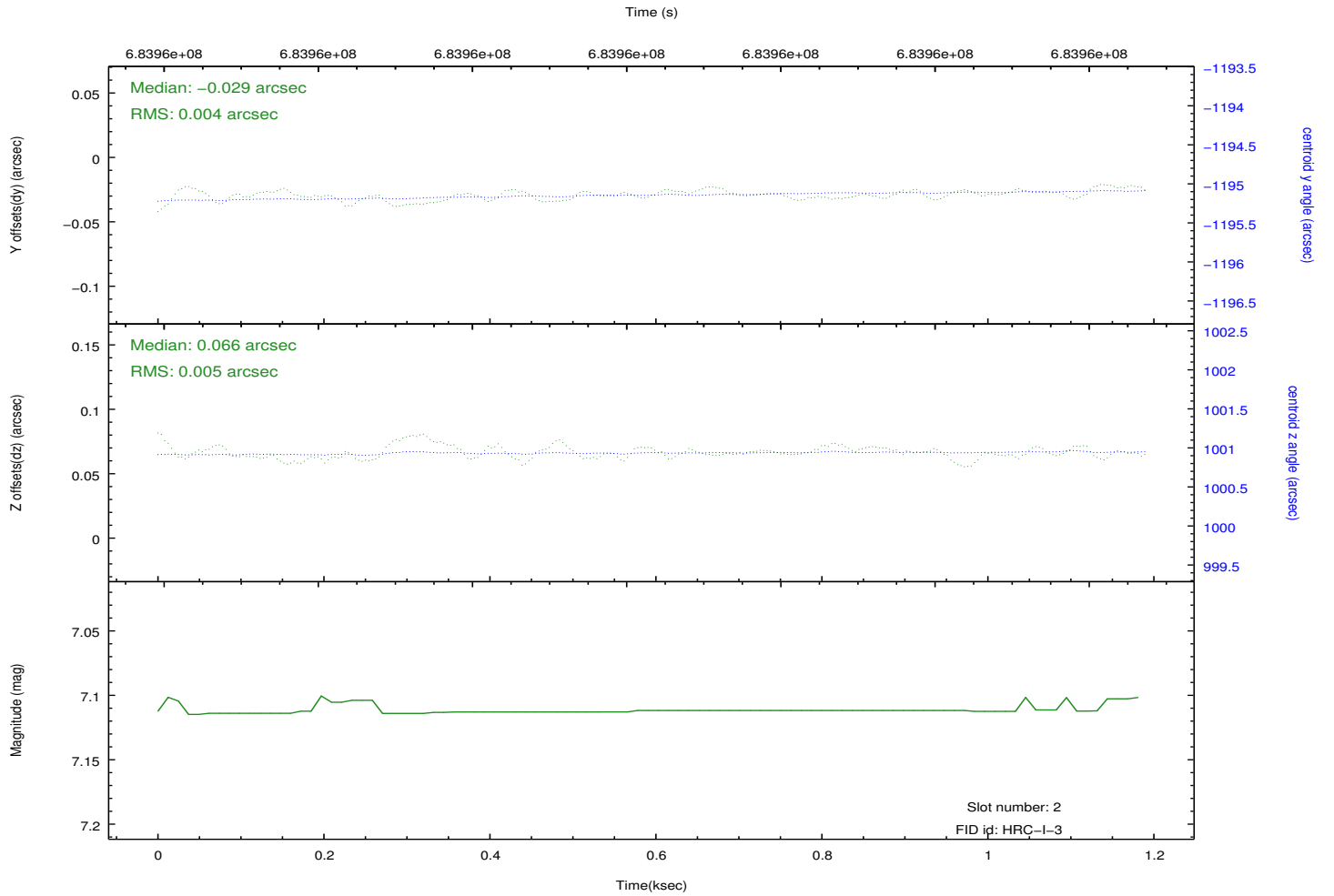
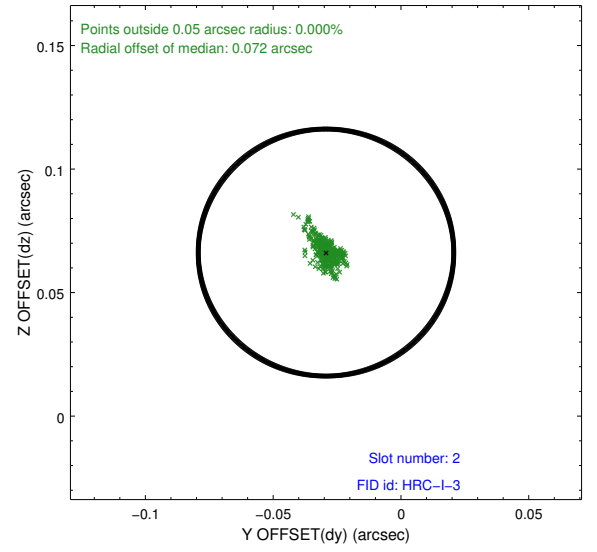
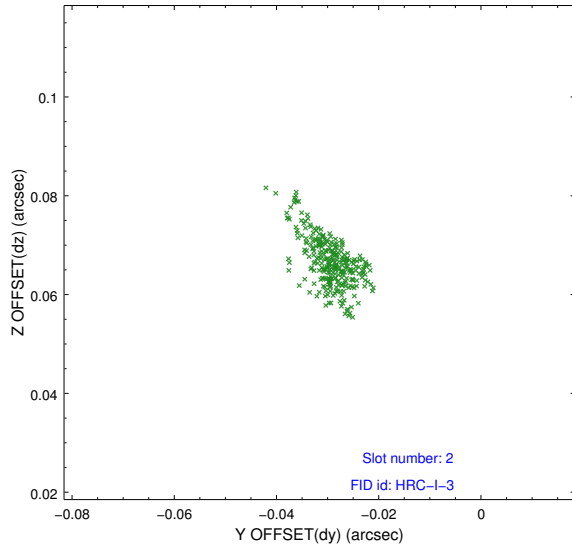
2.5.1 Slot 0



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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.190281321764

A.2 Comments