

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21763 - L2 Version 1
Chandra X-Ray Center

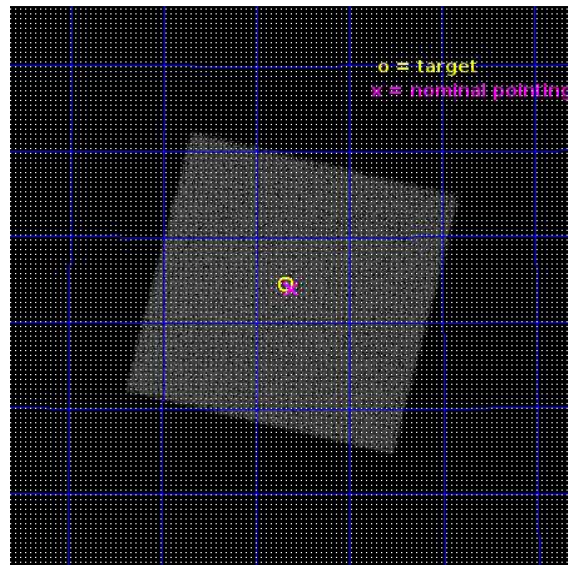
L2 Processing Date : Apr 8 2019

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1 Front

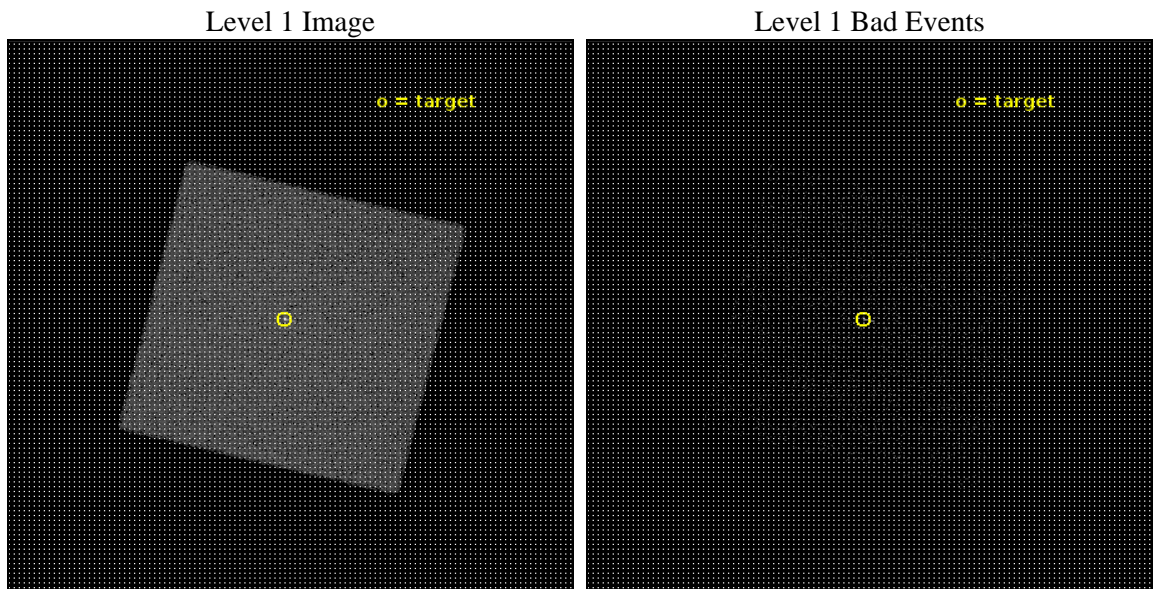
seq_num	291449	Sequence number
obs_id	21763	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.15588480218	Nominal RA [deg]
dec_nom	45.733353424075	Nominal Dec [deg]
roll_nom	58.881191814721	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1188.2313212156	[s]
livetime	1170.8268980623	Ontime multiplied by DTCOR
l2events	150693	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	10.7.1	Processing system revision	ontime	1188.2313212156	[s]
caldbver	4.8.2	 	l1events	249842	Number of level 1 events
date	2019-04-08T22:57:59	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

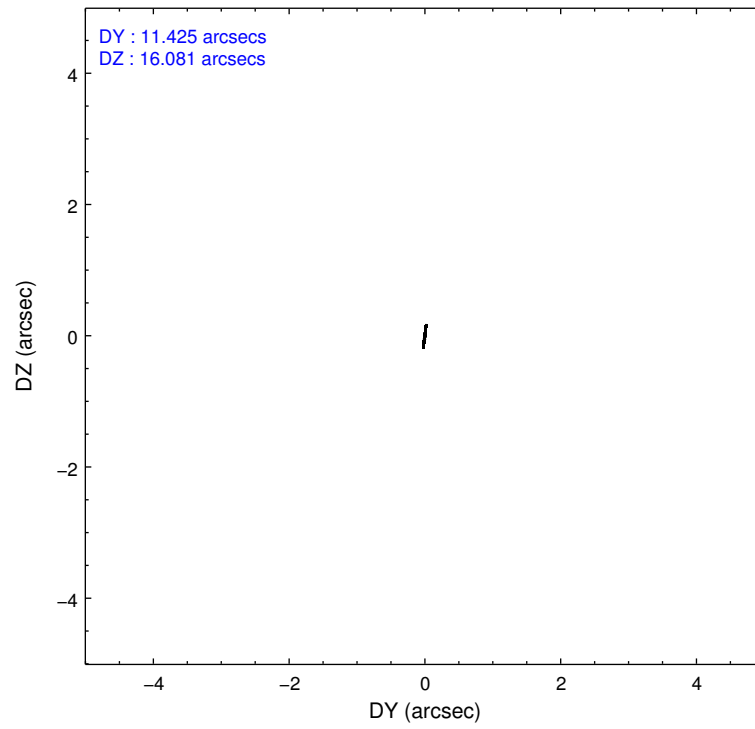
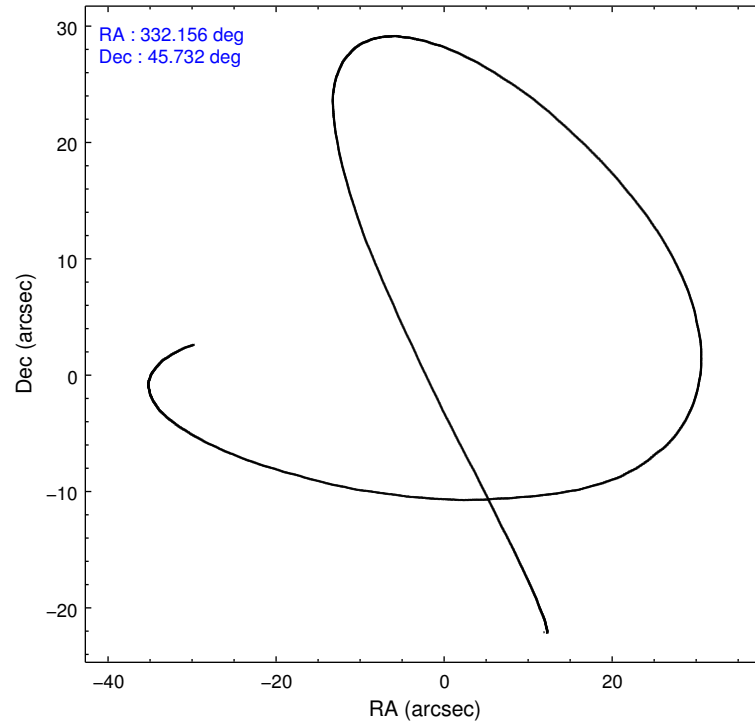
	segment 0
level 1 events	249842
rejected events	52963
rejected %	21%

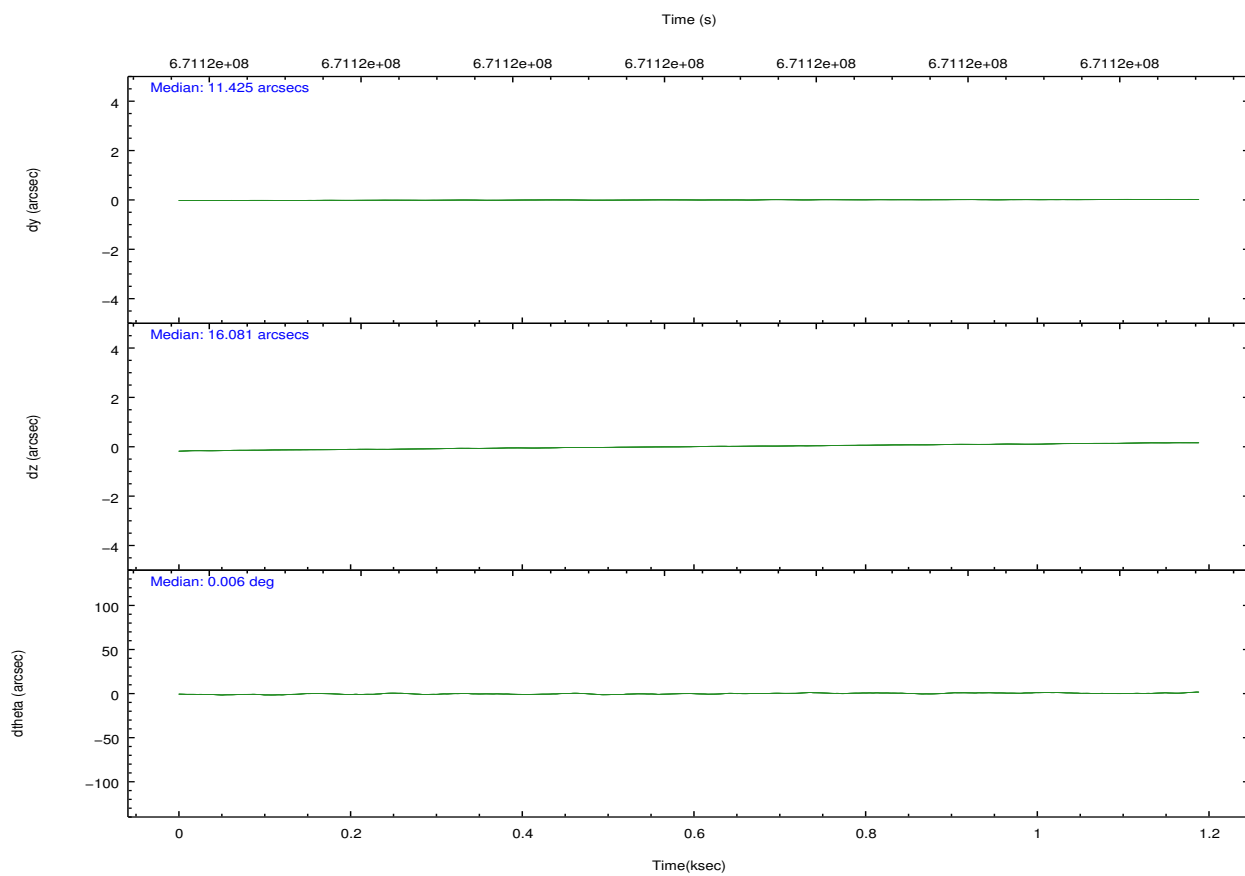
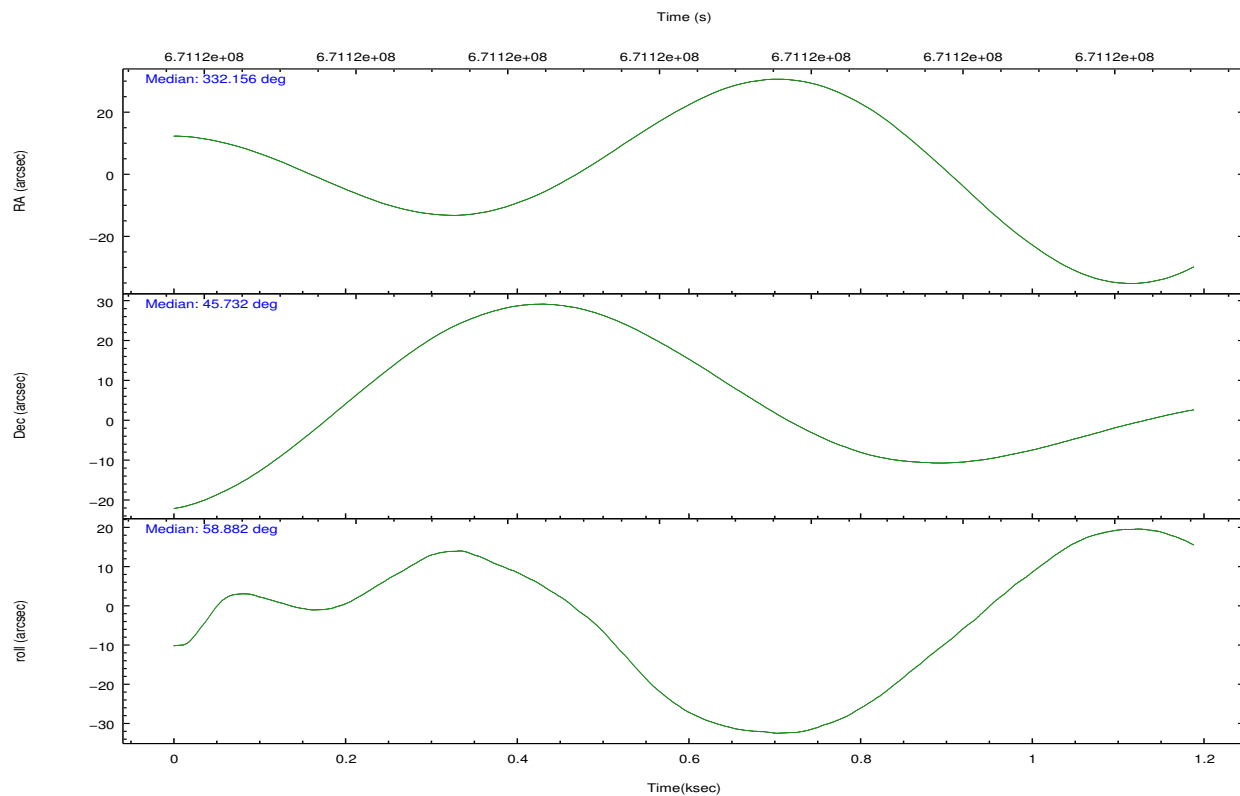
2.2 Compared Parameters

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	332.156696	332.1558848021772
[deg] Pointing Dec	45.706226	45.73335342407515
[deg] Pointing Roll	58.976101	58.88119181472108
[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)	671116414.184000	671116037.85332
Observation start date	2019-04-08T13:12:25	2019-04-08T13:07:17
[s] Observation end time (MET)	671117414.184000	671117547.6784101
Observation end date	2019-04-08T13:29:05	2019-04-08T13:32:27

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

2.3 Aspect



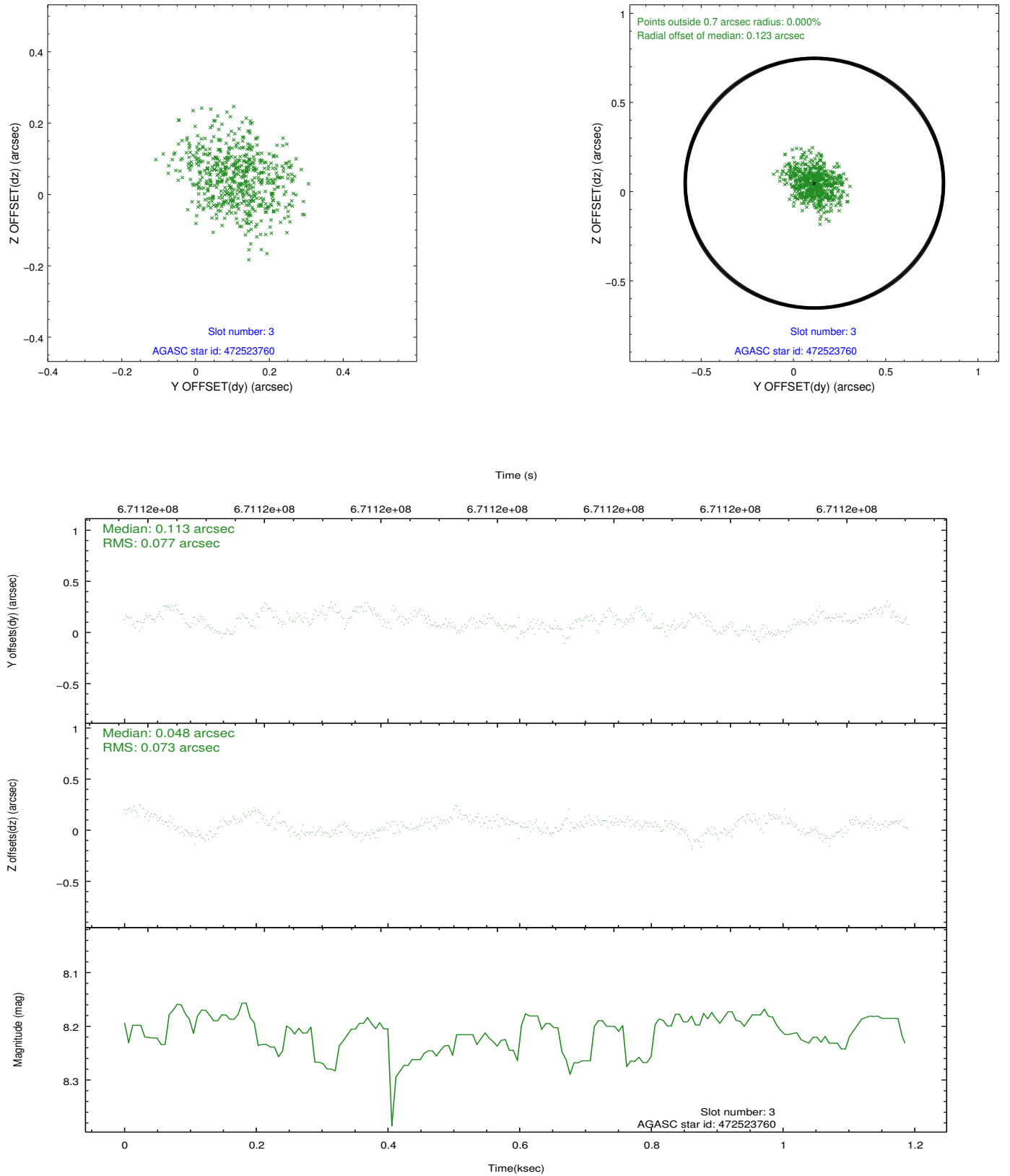


Slot Statistics

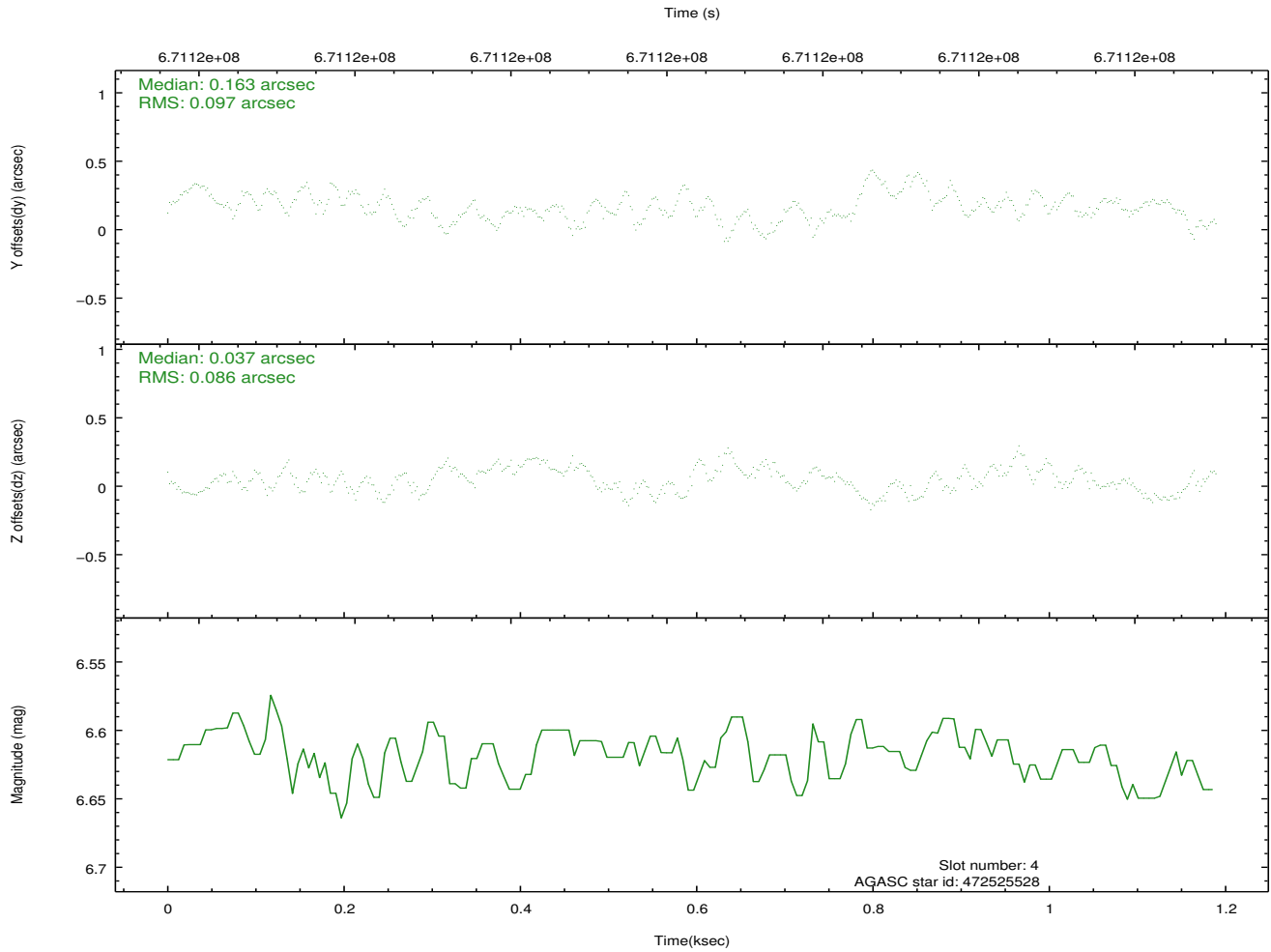
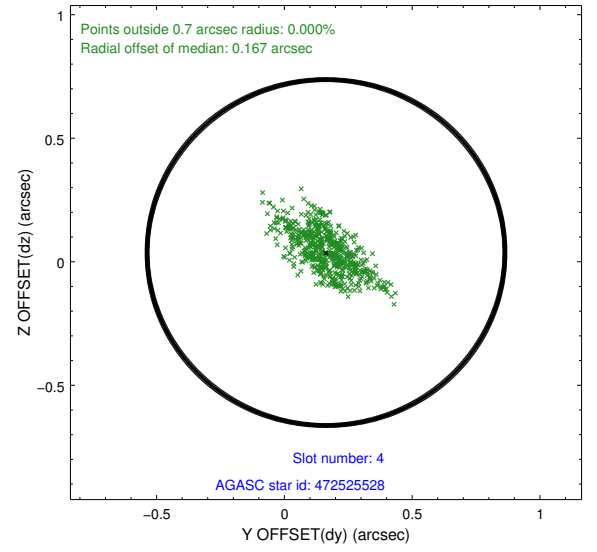
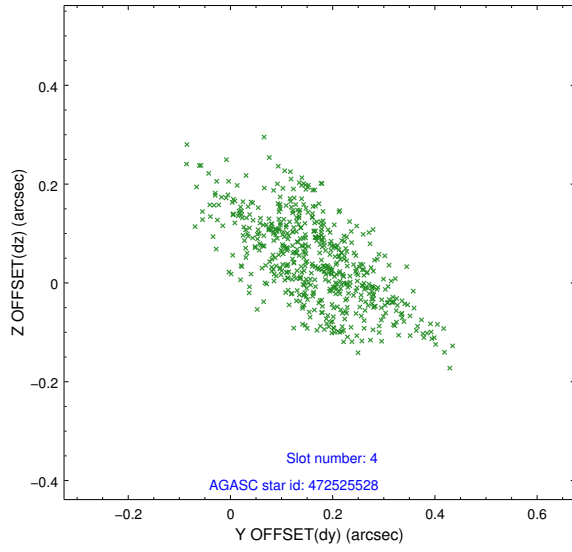
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.03	290	1.000	0.052	-0.142	0.008	0.012	0.000000	0.000000	845.63	-1305
1	FID		HRC-I-3	7.09	290	1.000	-0.367	0.003	0.007	0.012	0.000000	0.000000	-1193.11	995
2	FID		HRC-I-4	7.02	290	1.000	0.433	0.052	0.007	0.011	0.000000	0.000000	1271.94	1001
3	GUIDE	used	472523760	8.21	581	1.000	0.113	0.048	0.115	0.181	331.645363	45.403260	-1595.83	546
4	GUIDE	used	472525528	6.62	581	1.000	0.163	0.037	0.134	0.237	331.551102	45.248694	-2198.46	468
5	GUIDE	used	472533912	9.12	580	1.000	-0.141	-0.369	0.178	0.268	331.791136	46.368695	1575.13	2007
6	GUIDE	used	472665256	8.98	581	1.000	-0.136	0.281	0.145	0.299	332.808125	46.195041	2354.44	-478
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

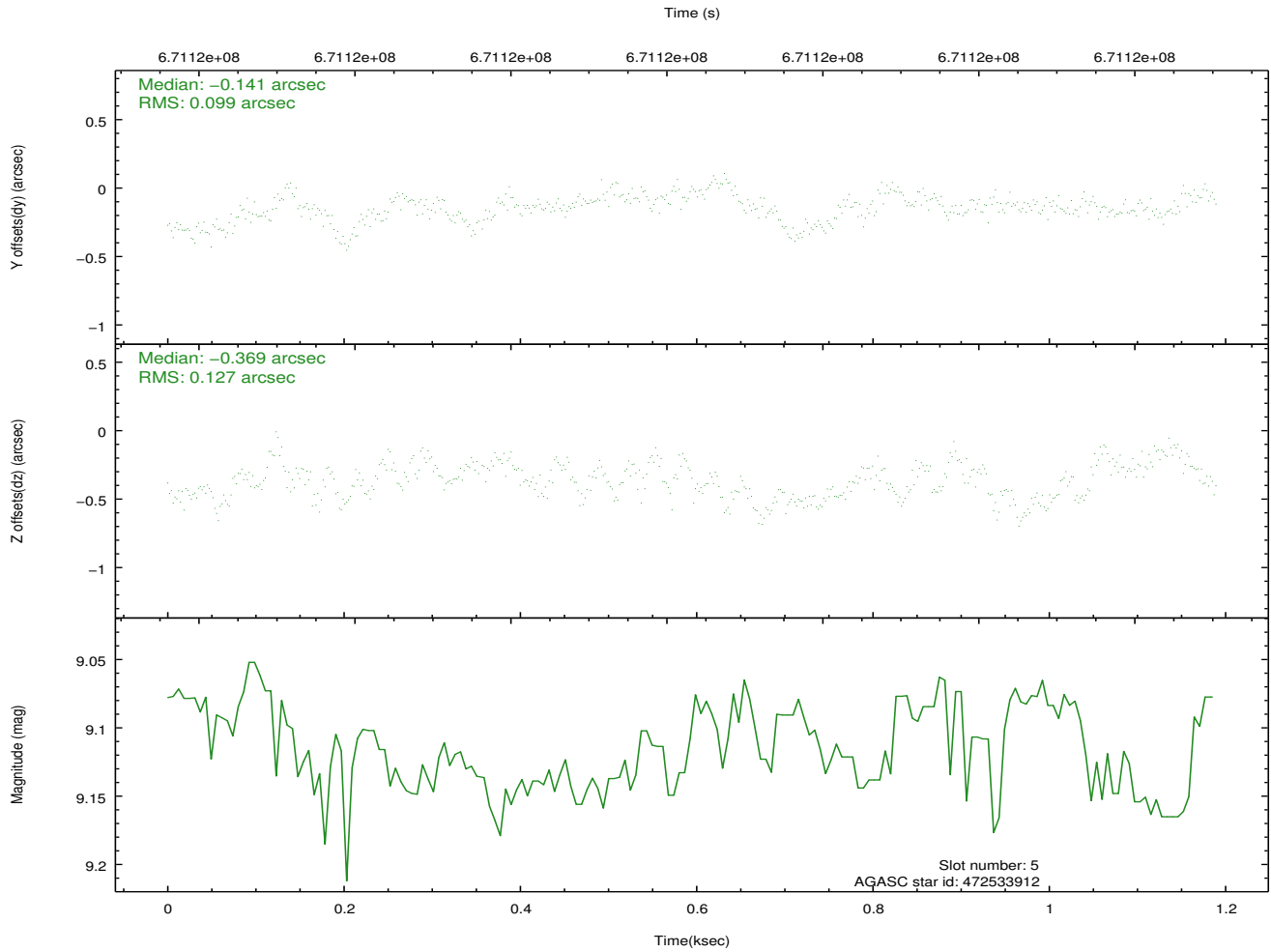
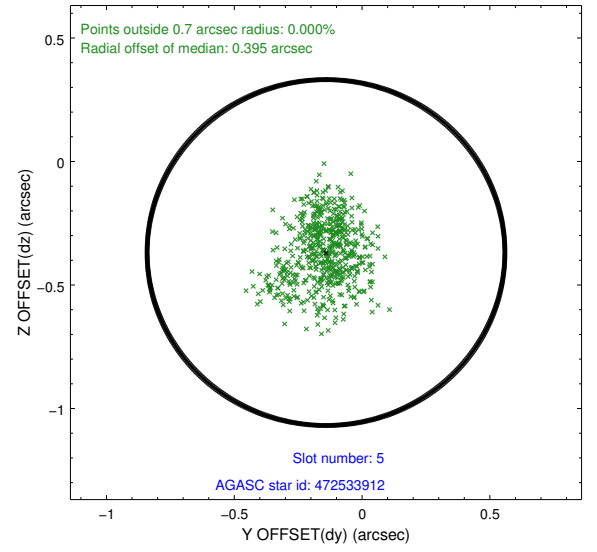
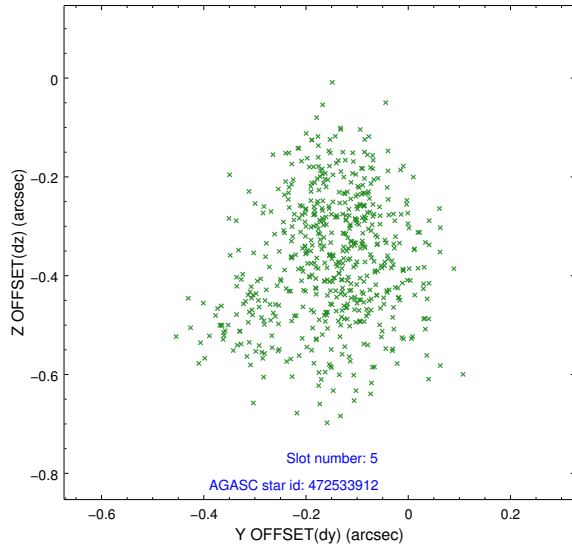
2.4.1 Slot 3



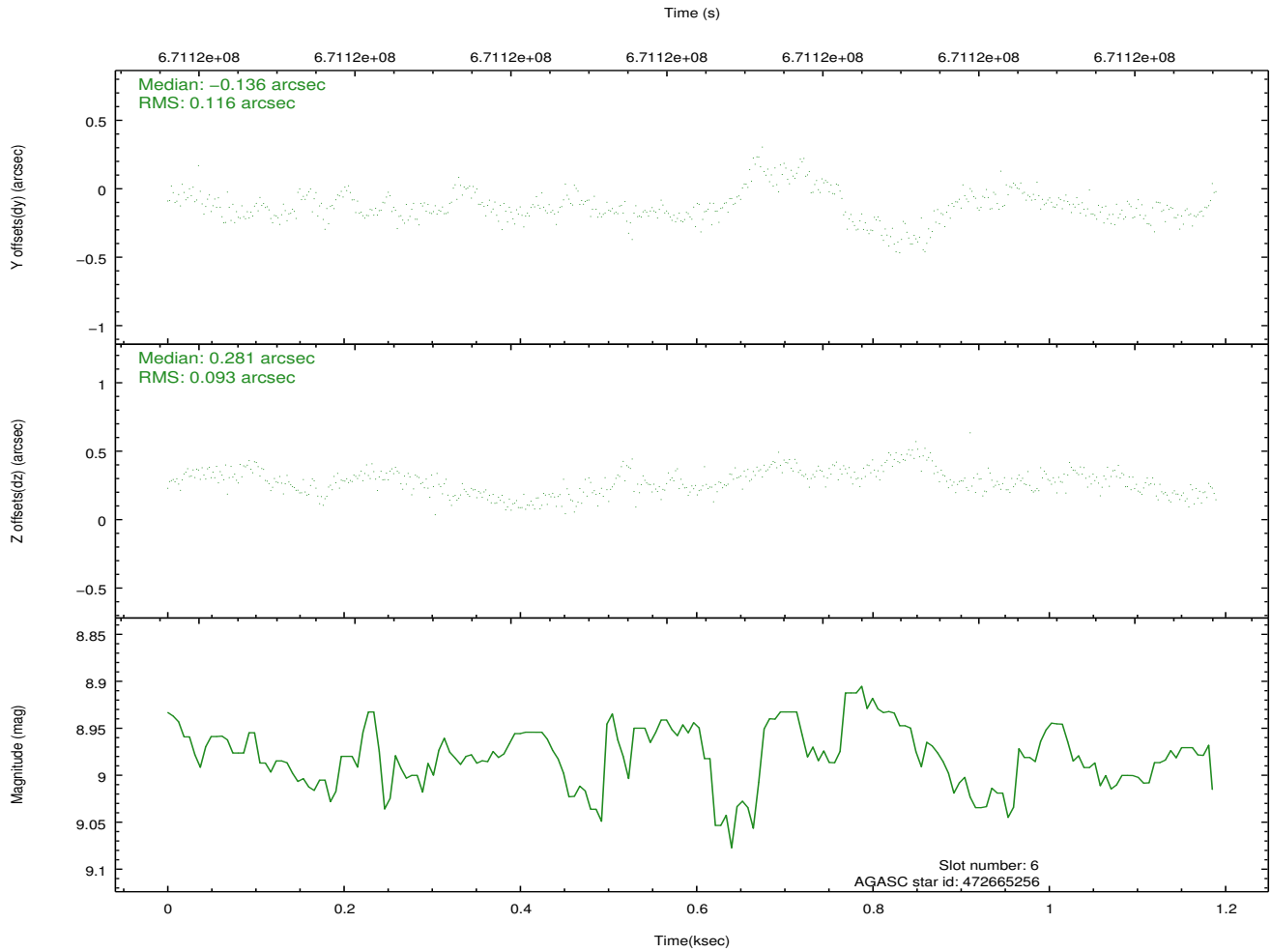
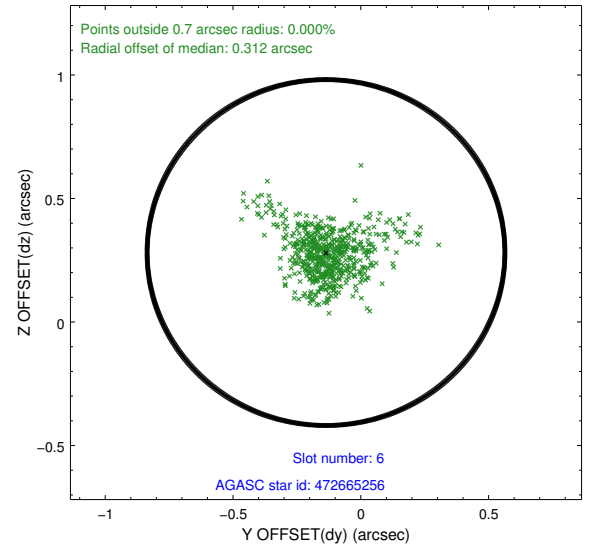
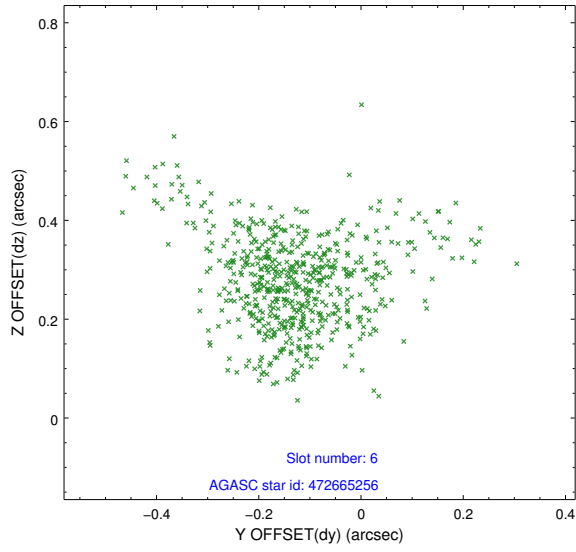
2.4.2 Slot 4



2.4.3 Slot 5

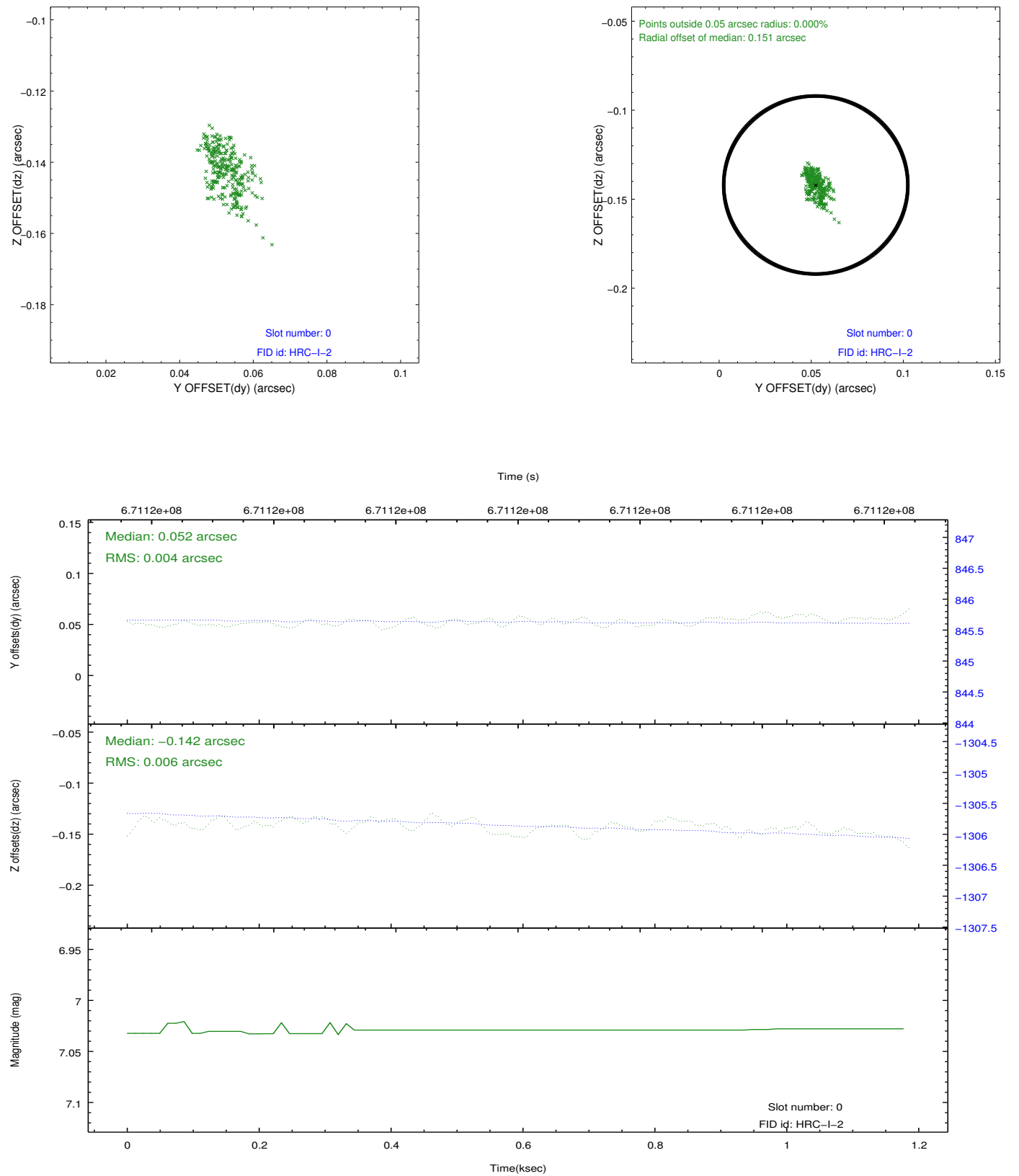


2.4.4 Slot 6

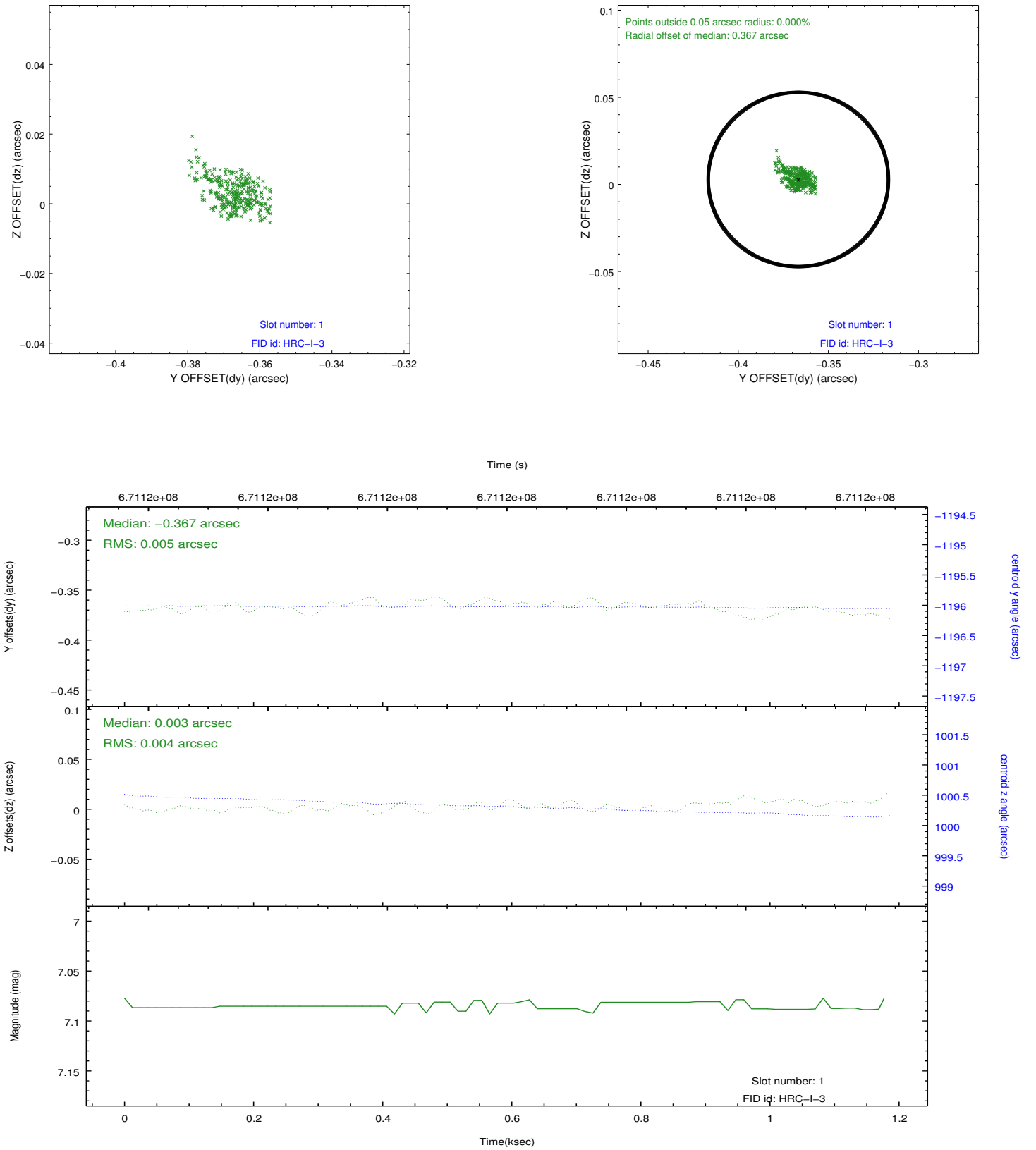


2.5 FID Slots

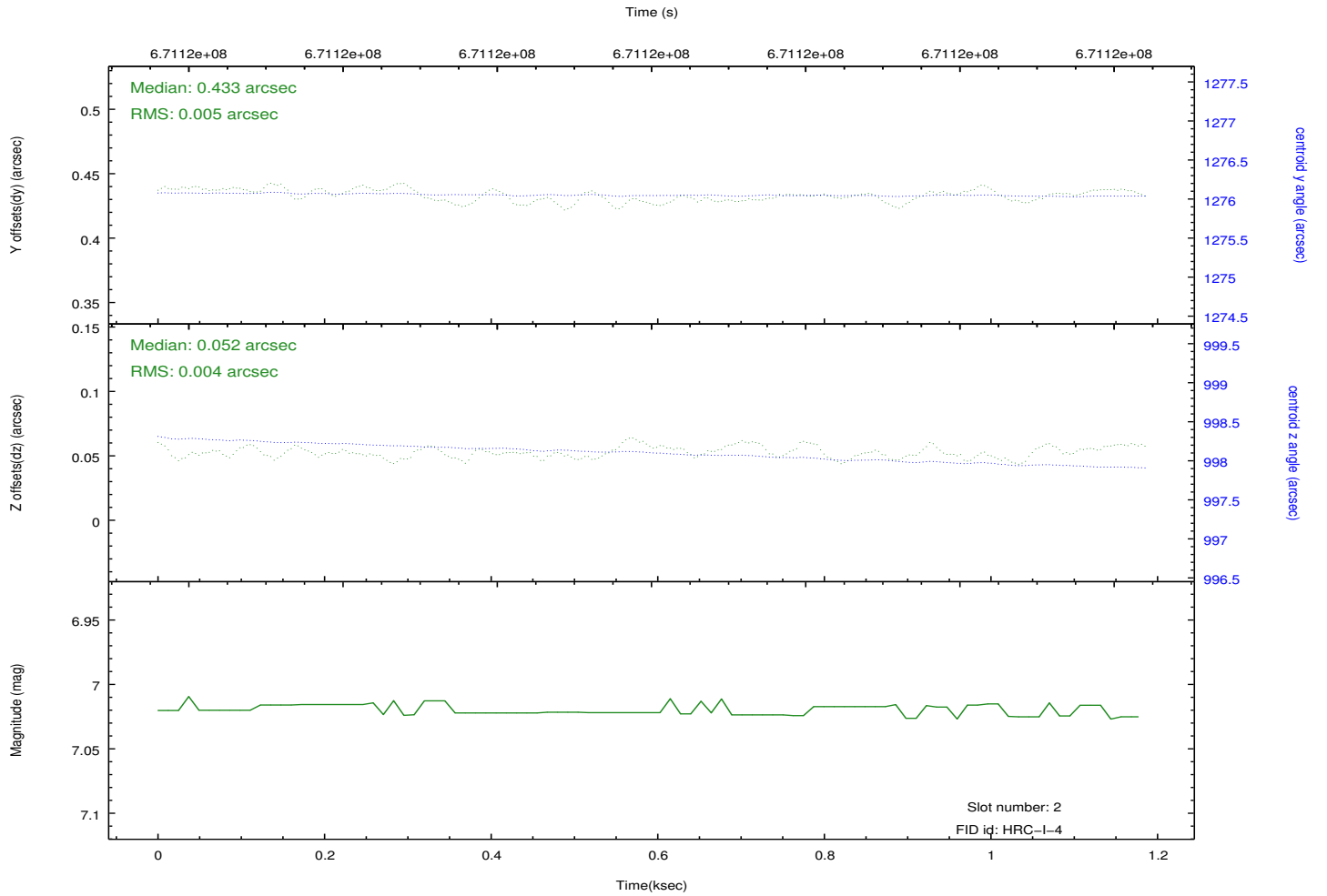
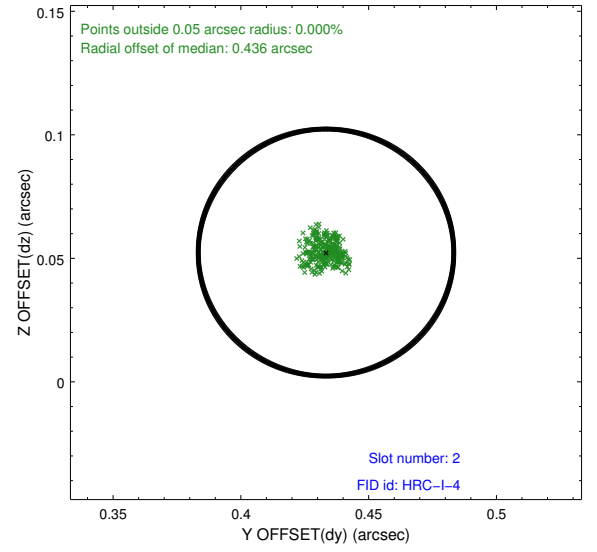
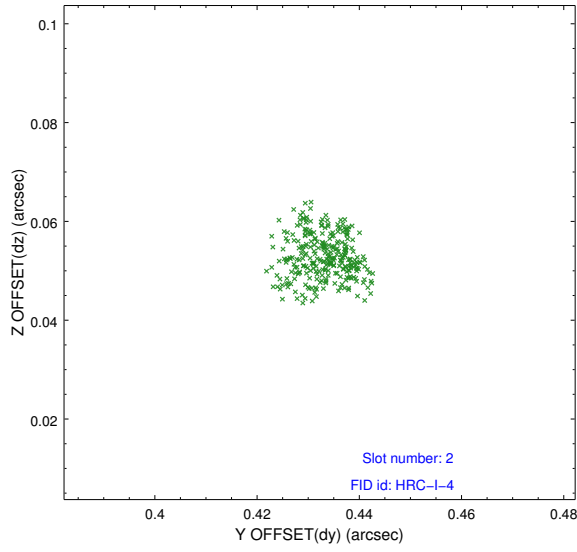
2.5.1 Slot 0



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)	2019.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1882313212156

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.