

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21780 - L2 Version 1
Chandra X-Ray Center

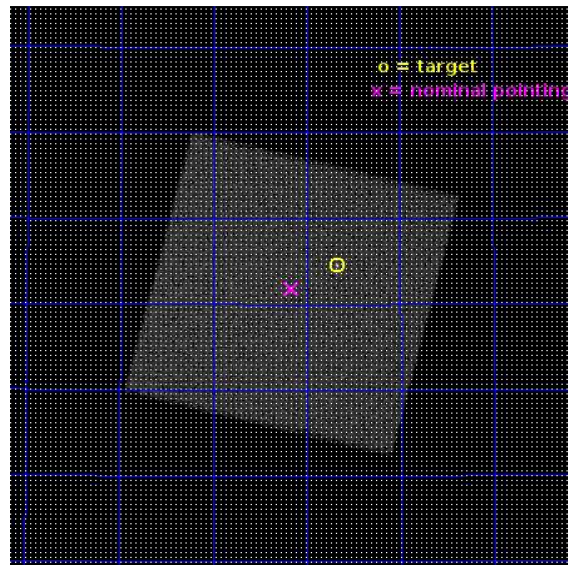
L2 Processing Date : Apr 9 2019

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1 Front

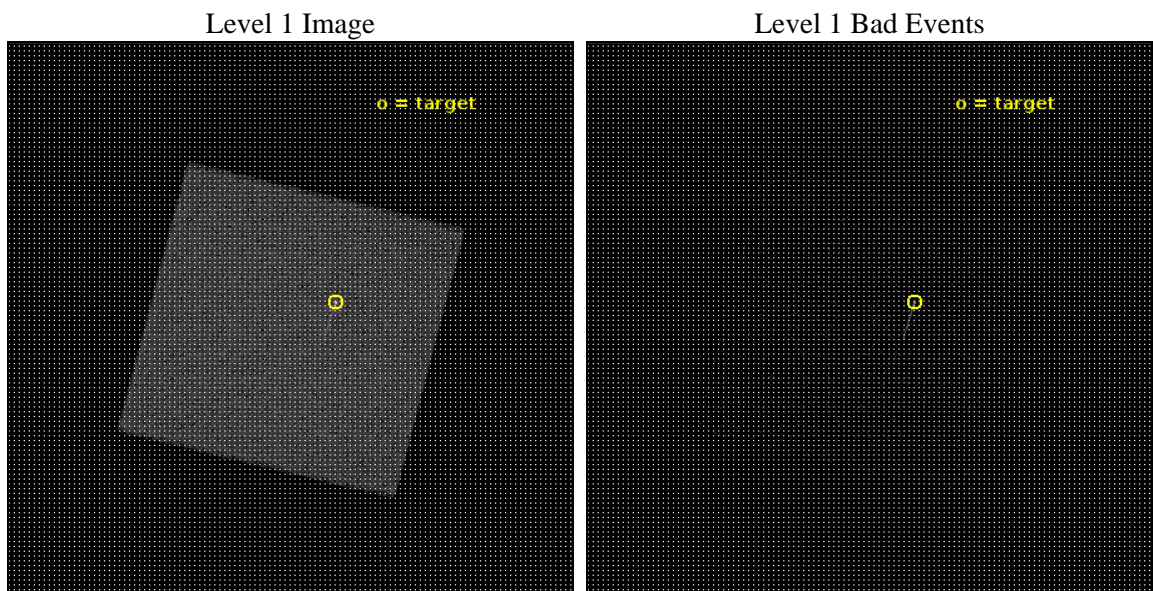
seq_num	291466	Sequence number
obs_id	21780	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.29152272936	Nominal RA [deg]
dec_nom	45.697310740456	Nominal Dec [deg]
roll_nom	59.111098239149	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1192.3313214779	[s]
livetime	1174.0205741483	Ontime multiplied by DTCOR
l2events	155609	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	1192.3313214779	[s]
caldbver	4.8.2	 	l1events	256113	Number of level 1 events
date	2019-04-09T03:57:55	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

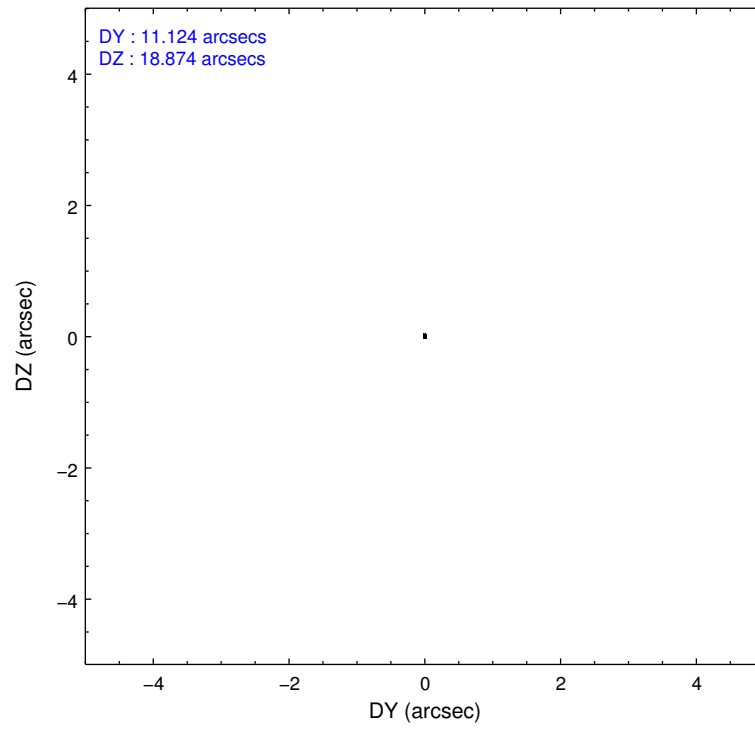
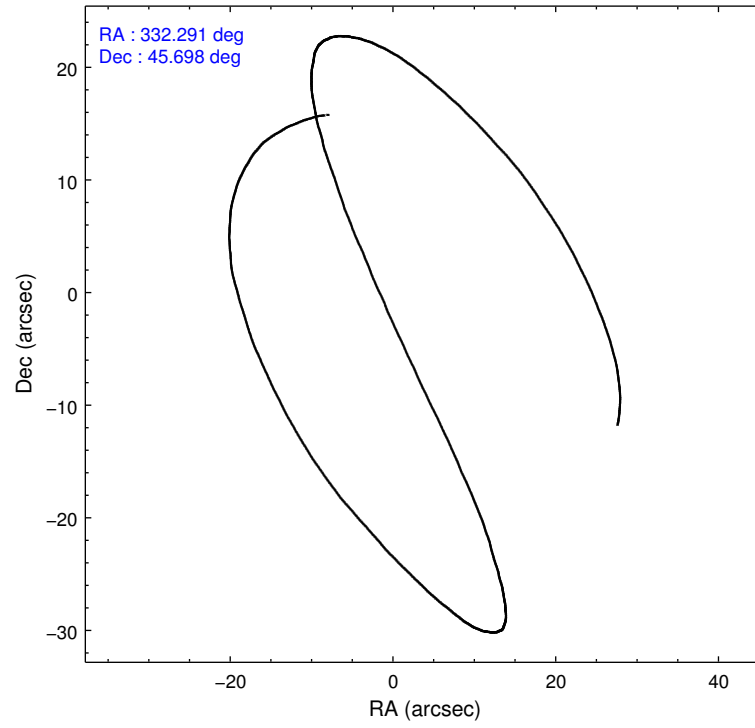
Level 1 Events

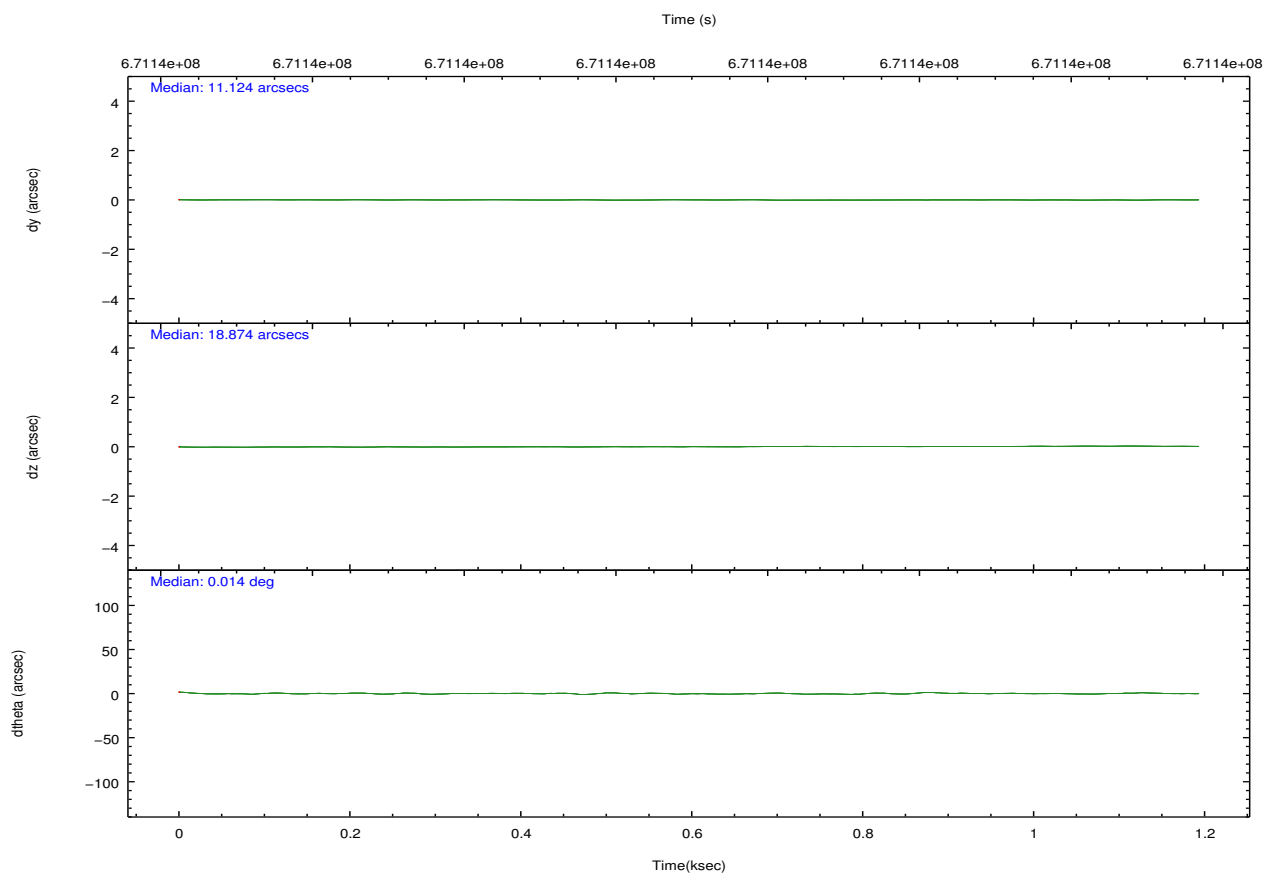
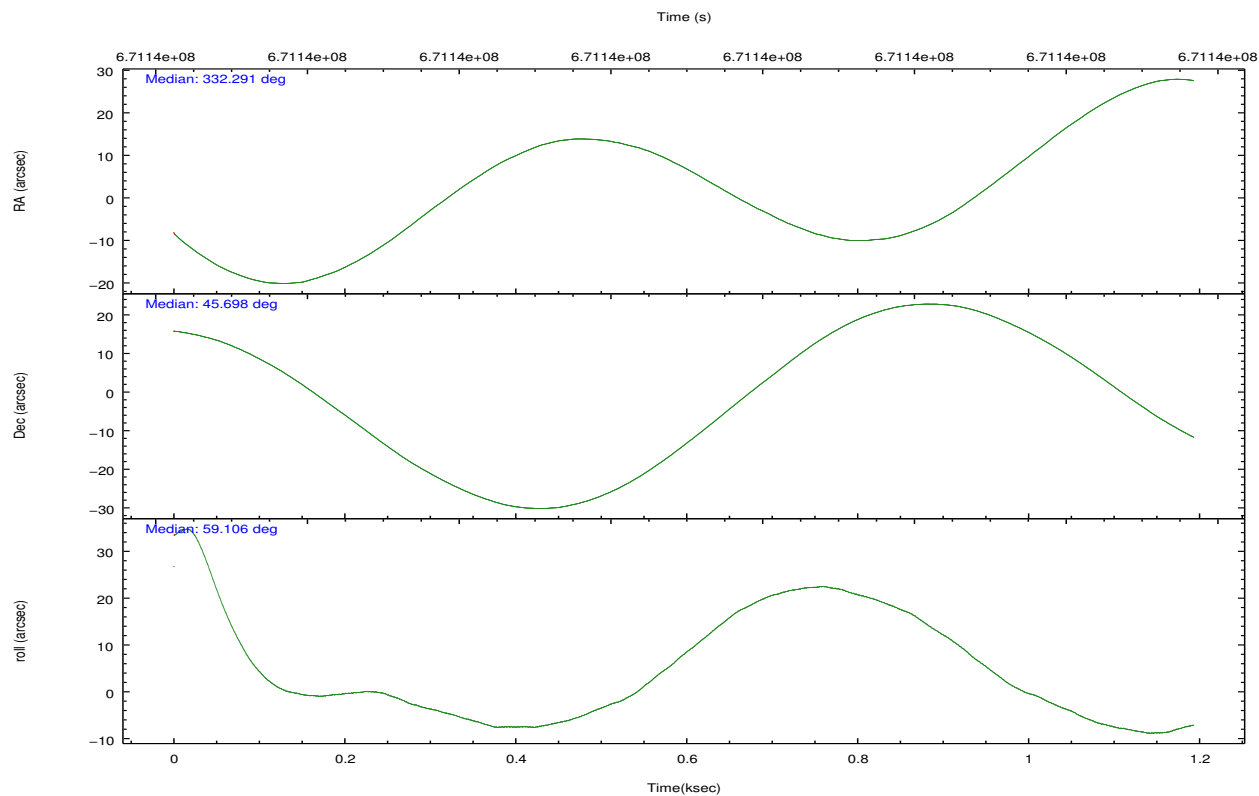
	segment 0
level 1 events	256113
rejected events	53304
rejected %	20%

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	332.292242	332.2915227293581			
[deg] Pointing Dec	45.669596	45.69731074045609			
[deg] Pointing Roll	59.206087	59.11109823914919			
[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)	671142084.184000	671141707.95486			
Observation start date	2019-04-08T20:20:15	2019-04-08T20:15:07			
[s] Observation end time (MET)	671143084.184000	671143217.77995			
Observation end date	2019-04-08T20:36:55	2019-04-08T20:40:17			

2.3 Aspect



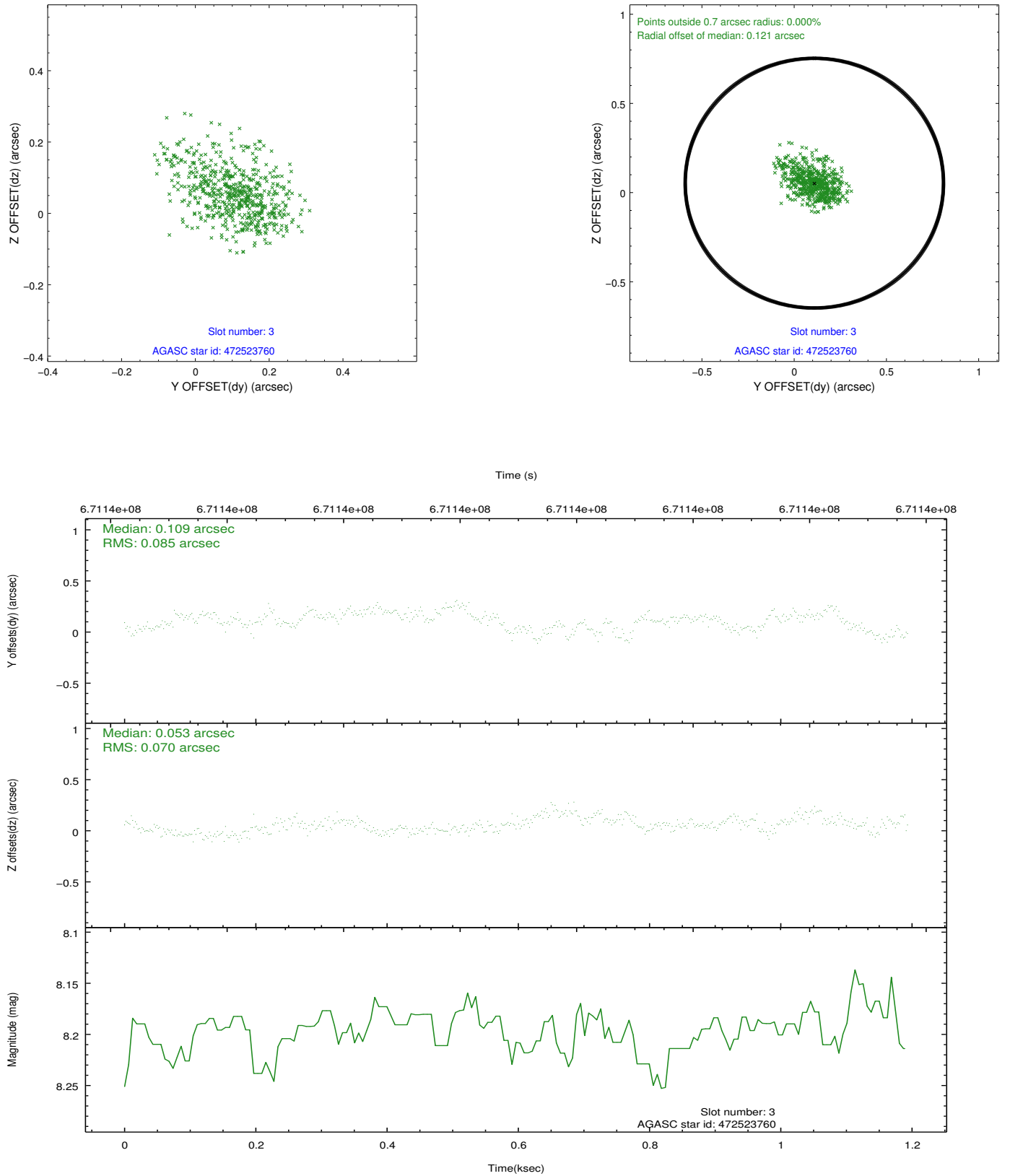


Slot Statistics

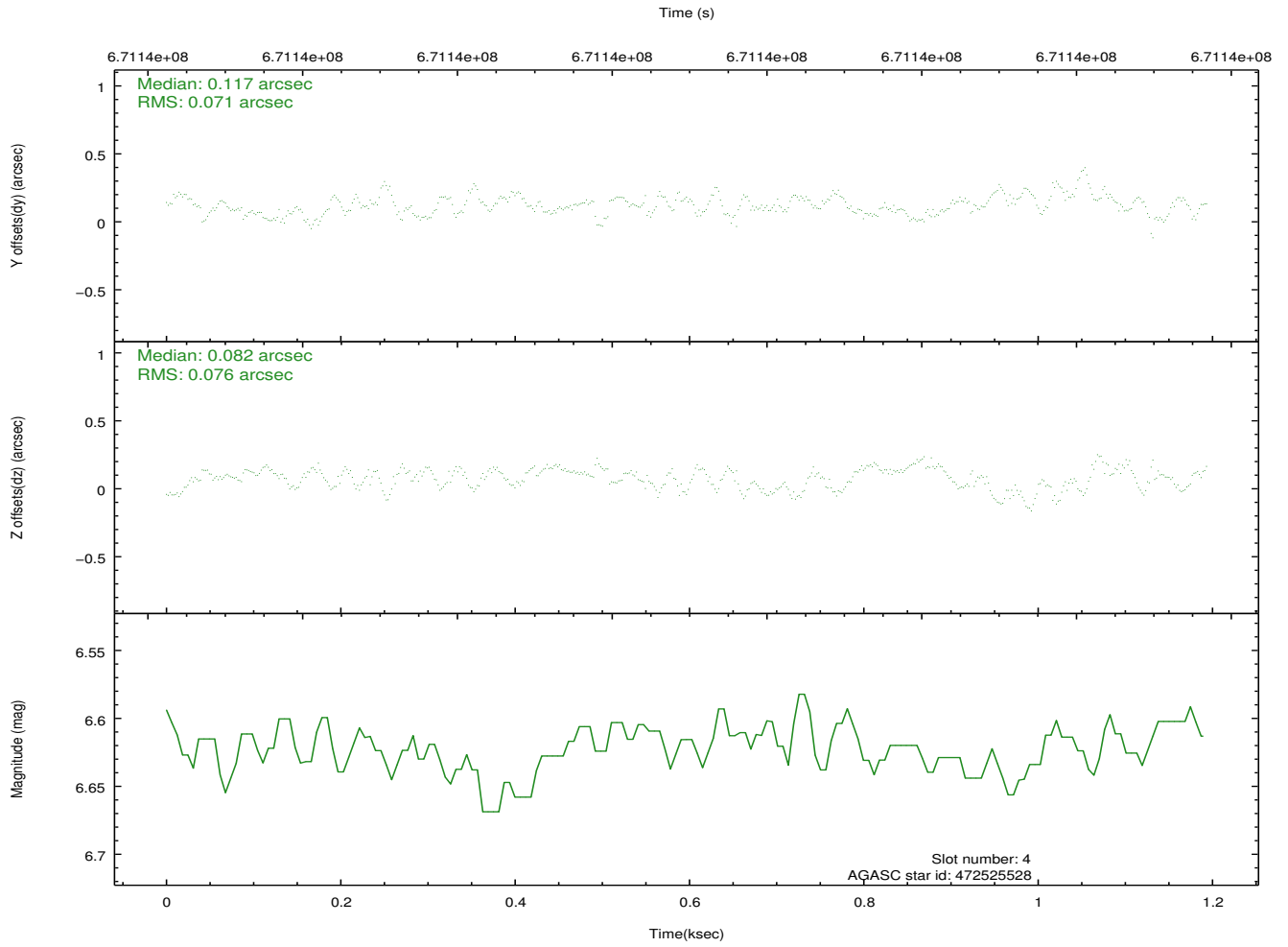
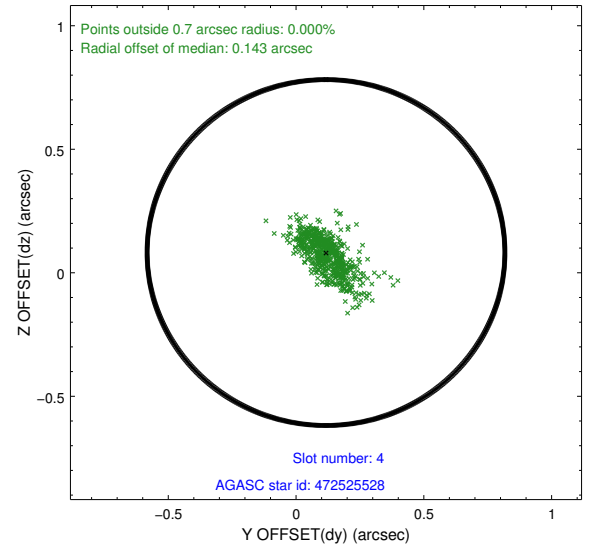
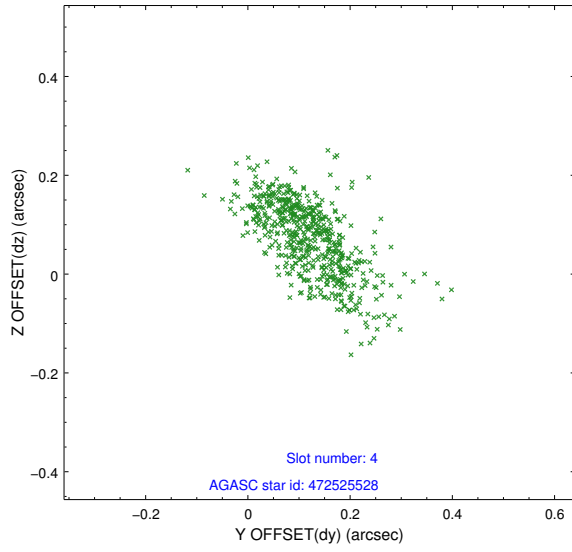
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.02	292	1.000	-0.143	-0.159	0.007	0.010	0.000000	0.000000	-767.08	-1307
1	FID		HRC-I-3	7.09	292	1.000	-0.247	-0.091	0.007	0.012	0.000000	0.000000	-1198.09	993
2	FID		HRC-I-4	7.02	292	1.000	0.503	0.160	0.005	0.009	0.000000	0.000000	1272.47	998
3	GUIDE	used	472523760	8.20	583	1.000	0.109	0.053	0.118	0.193	331.645363	45.403260	-1655.94	915
4	GUIDE	used	472525528	6.62	583	1.000	0.117	0.082	0.106	0.191	331.551102	45.248694	-2259.14	841
5	GUIDE	used	472533912	9.10	583	1.000	-0.199	-0.424	0.201	0.342	331.791136	46.368695	1523.11	2359
6	GUIDE	used	472665256	8.97	583	1.000	-0.042	0.299	0.118	0.189	332.808125	46.195041	2288.46	-130
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

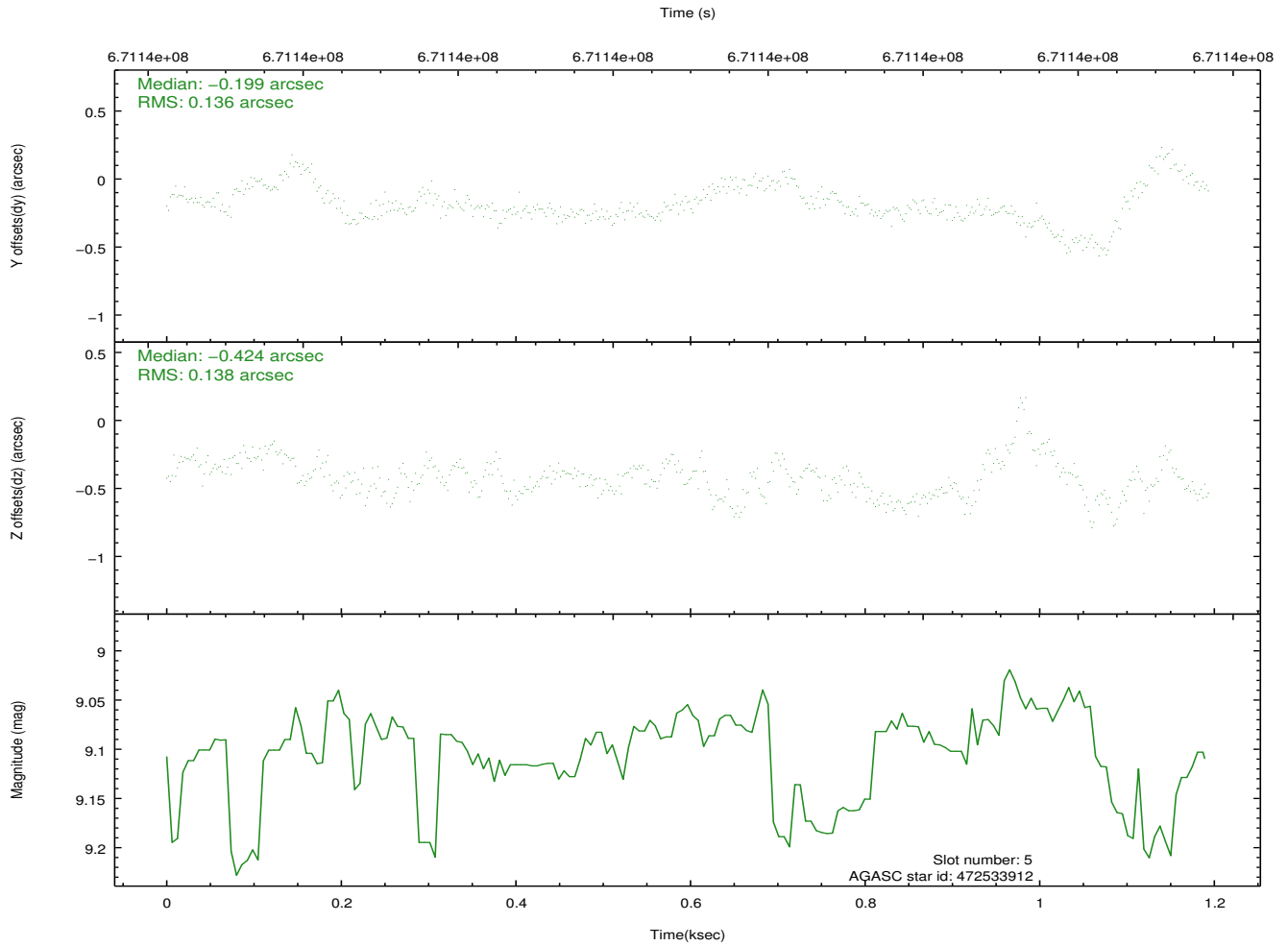
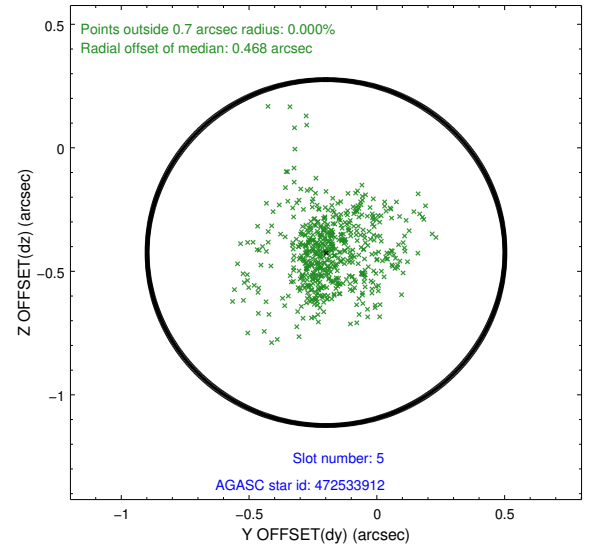
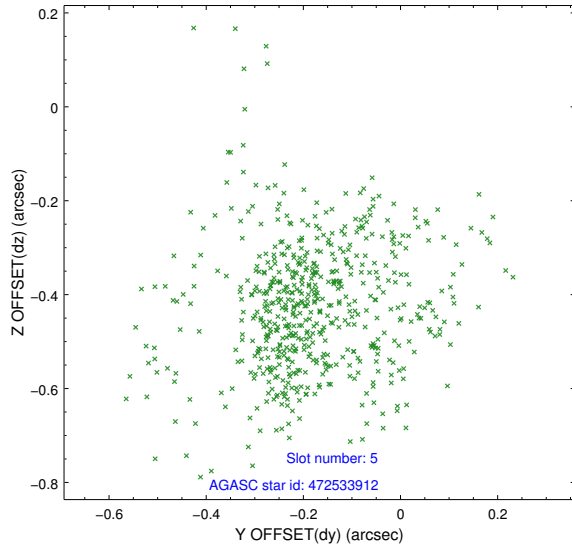
2.4.1 Slot 3



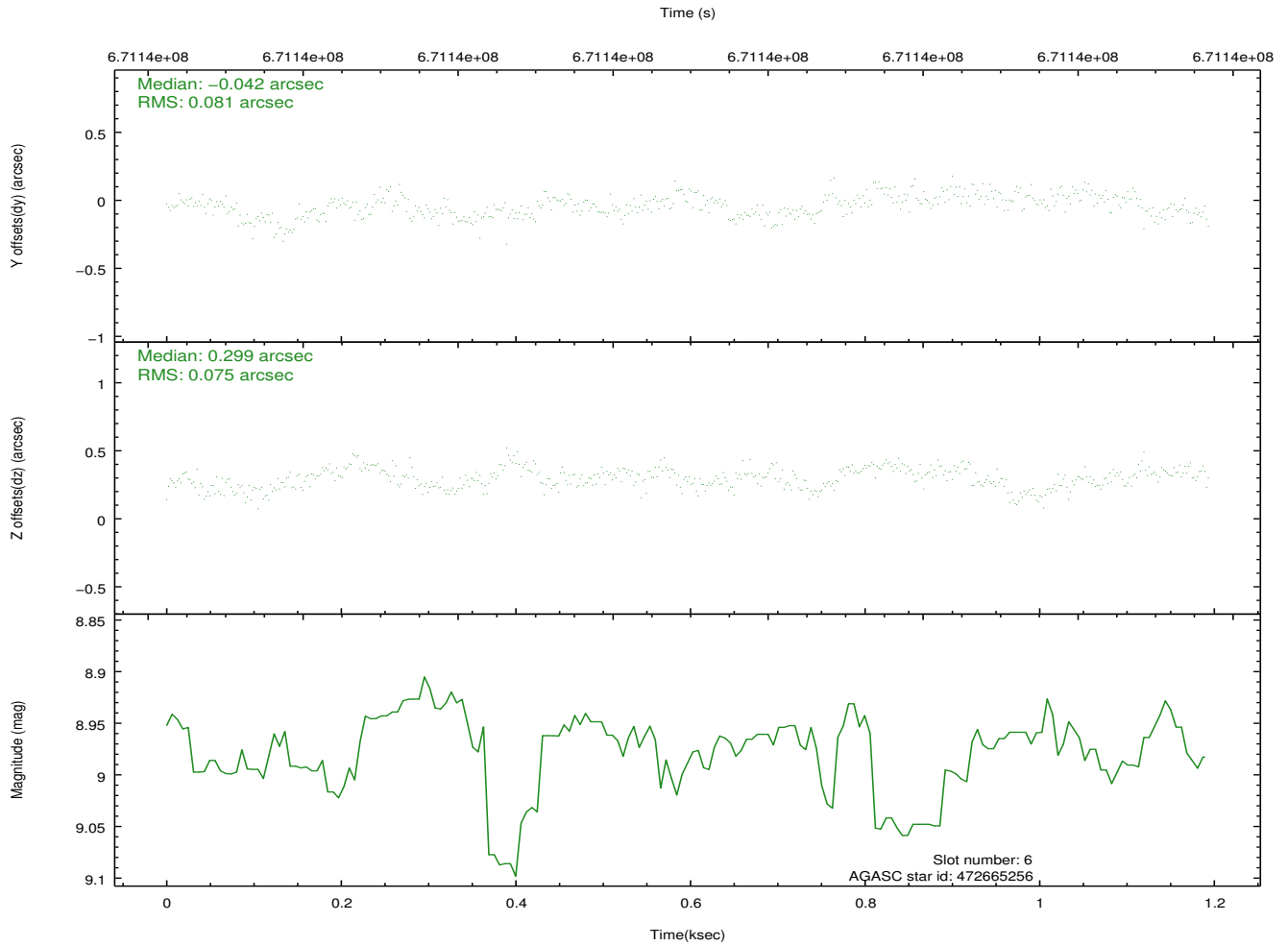
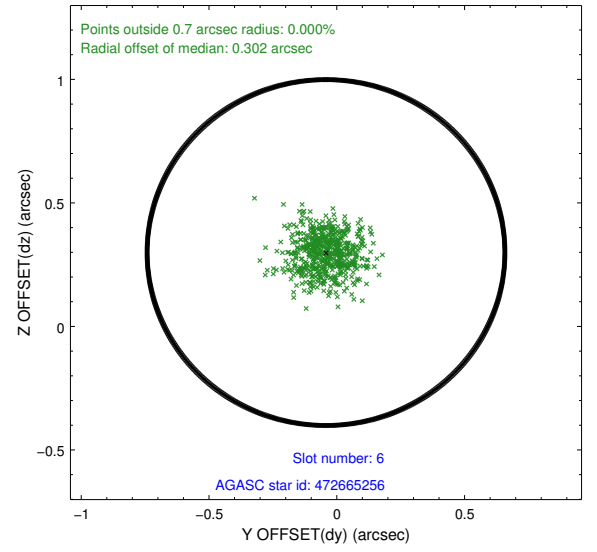
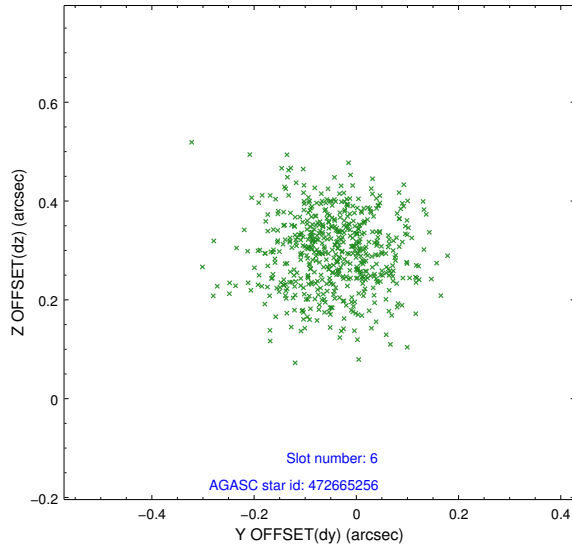
2.4.2 Slot 4



2.4.3 Slot 5

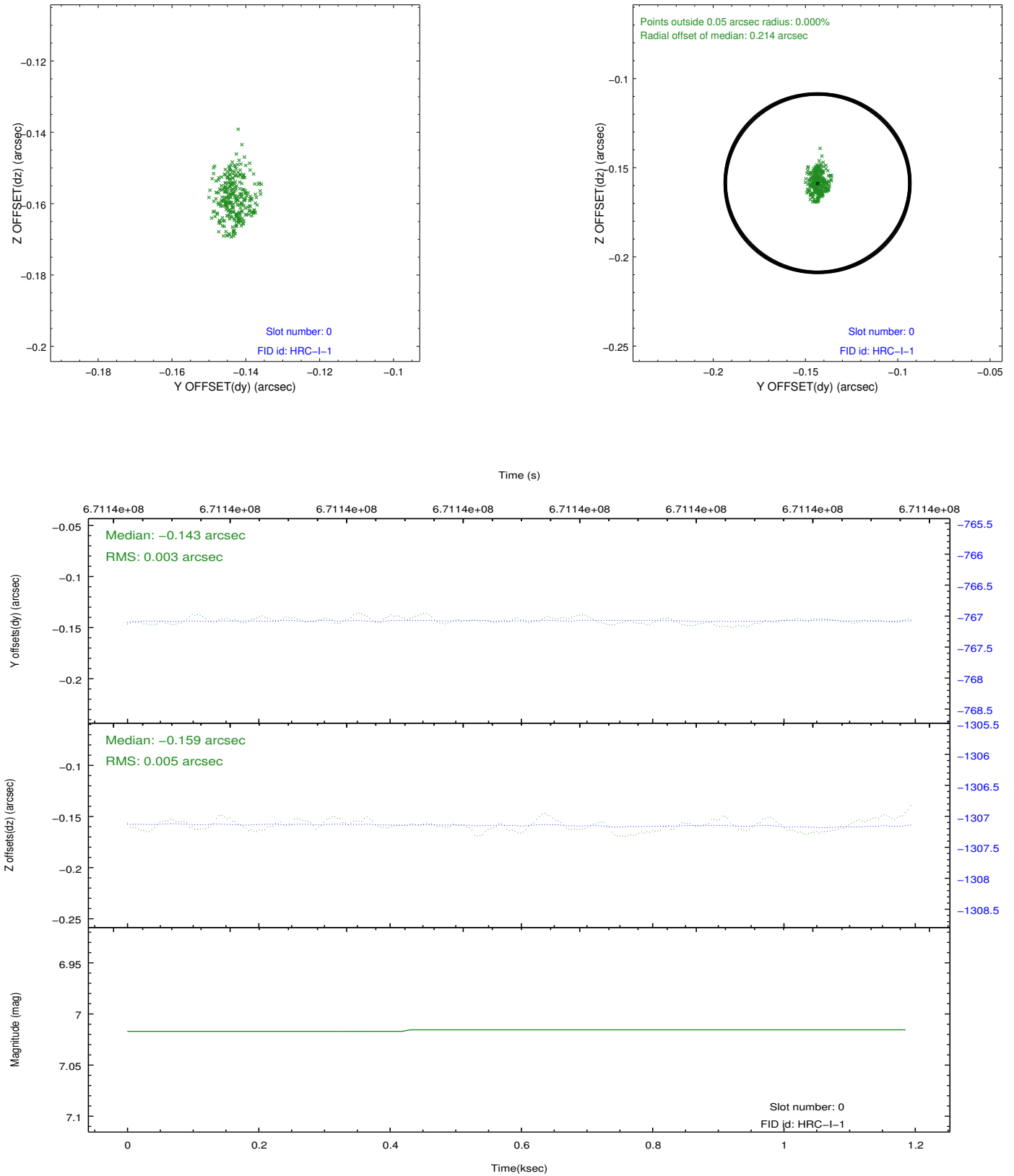


2.4.4 Slot 6

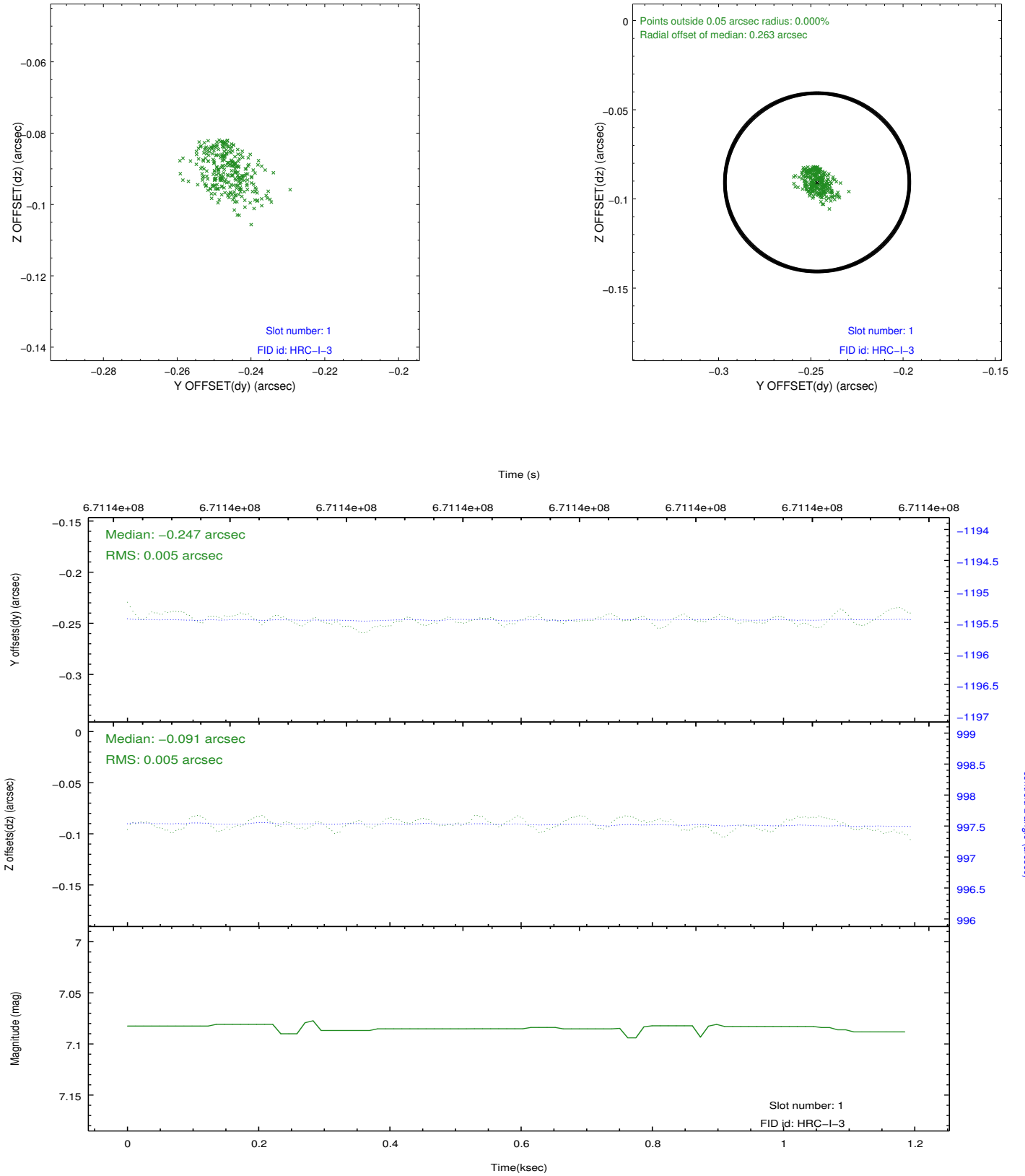


2.5 FID Slots

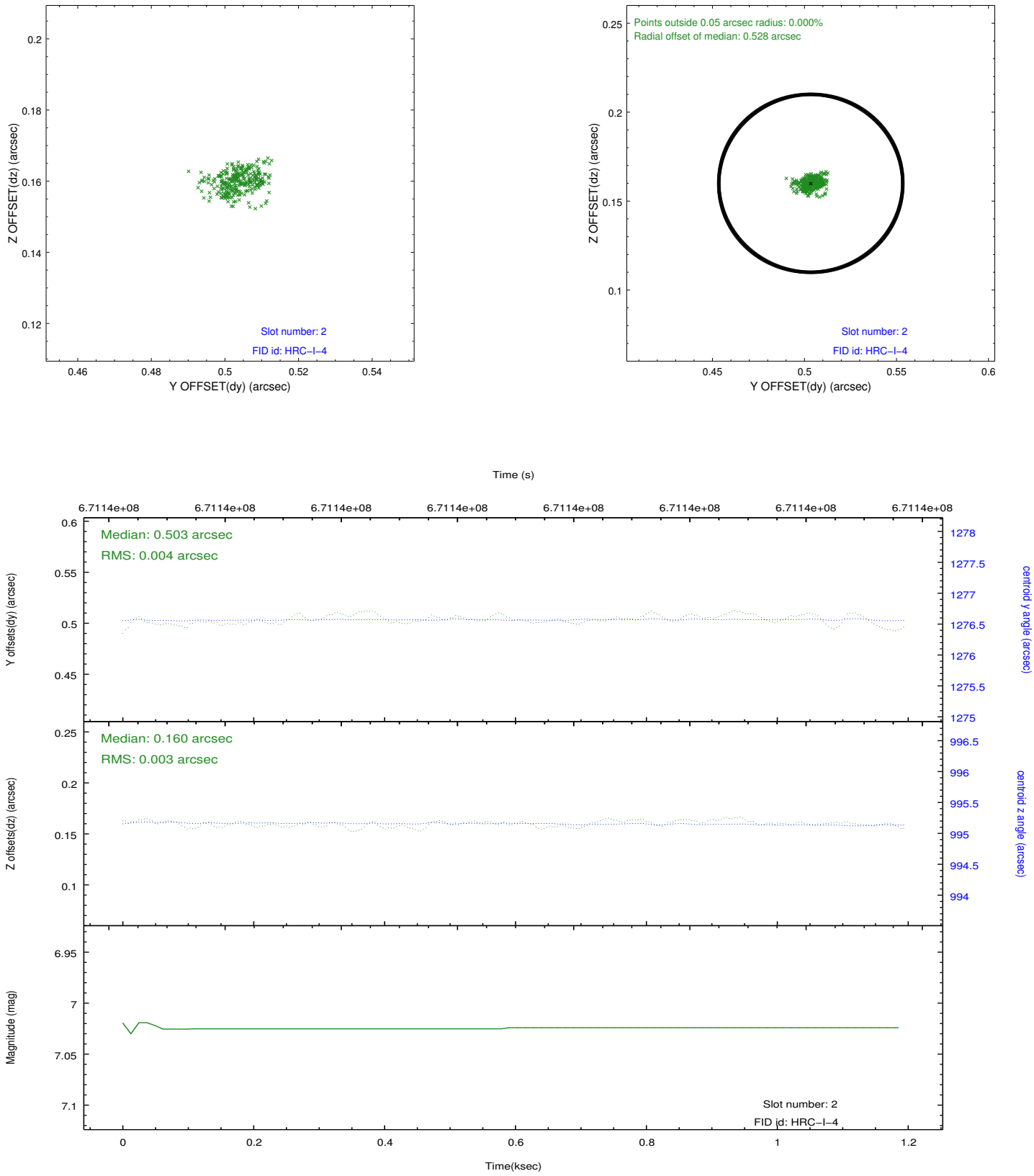
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1923313214779

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 guide star from the solution.