

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19815 - L2 Version 1
Chandra X-Ray Center

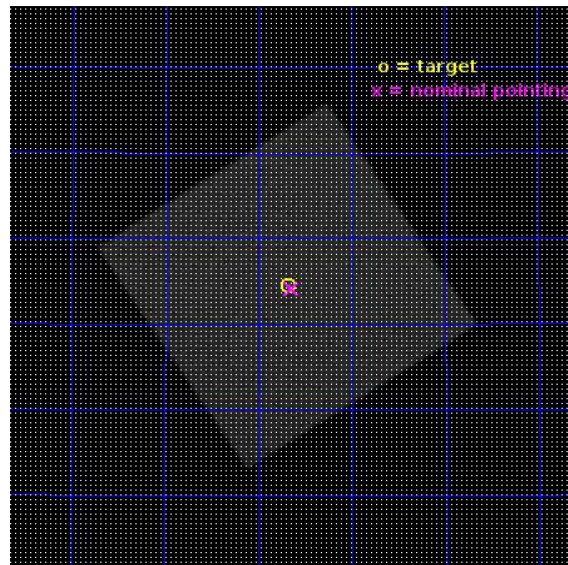
L2 Processing Date : Sep 17 2017

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

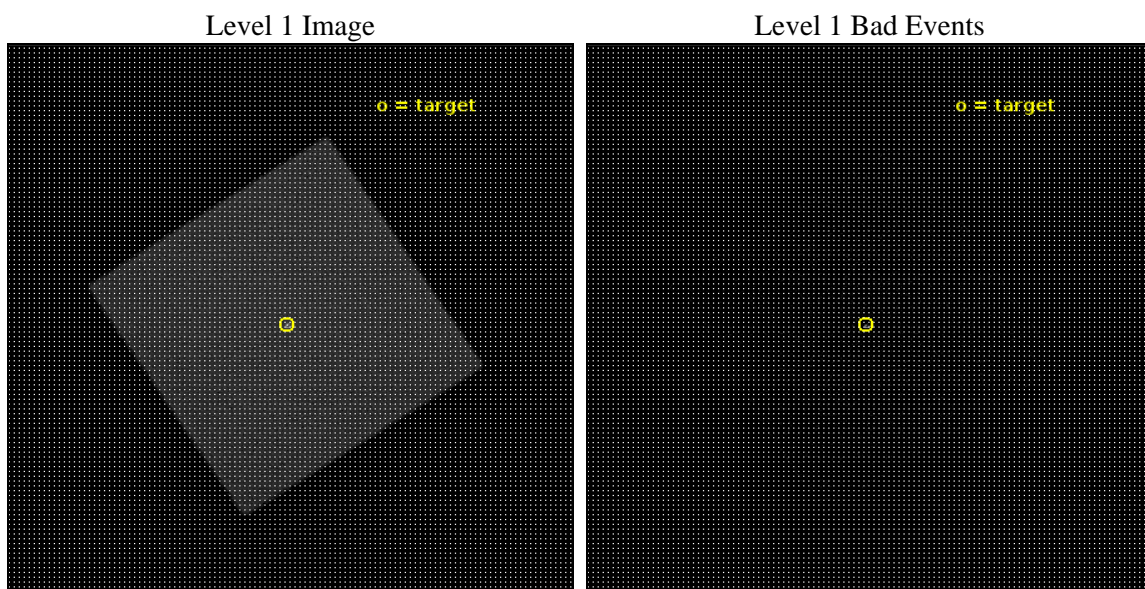
seq_num	291332	Sequence number
obs_id	19815	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16156305917	Nominal RA [deg]
dec_nom	45.736262699608	Nominal Dec [deg]
roll_nom	191.91072789602	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5150.8815511465	[s]
livetime	5086.6002066637	Ontime multiplied by DTCOR
l2events	564014	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	5150.8815511465	[s]
caldsver	4.7.6	 	l1events	970203	Number of level 1 events
date	2017-09-17T15:26:24	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

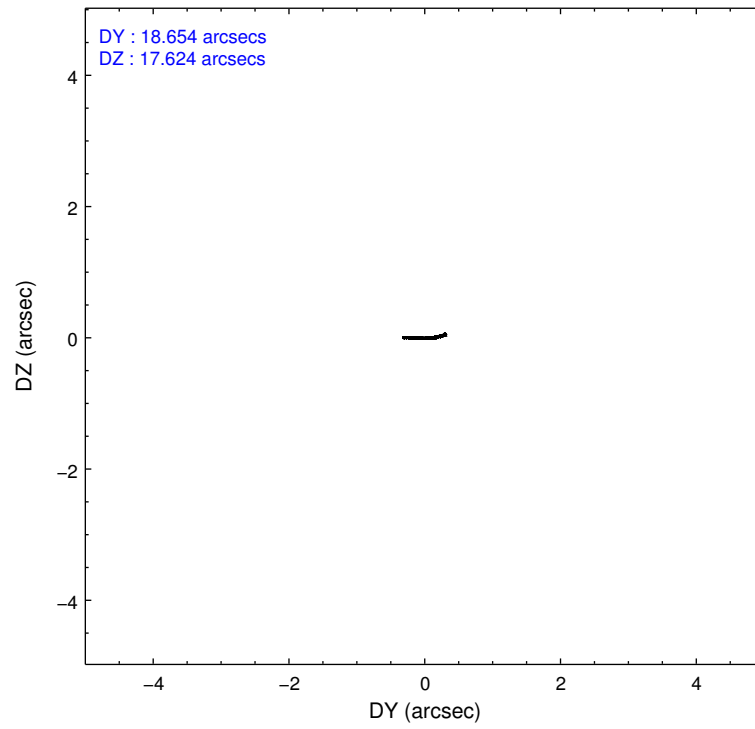
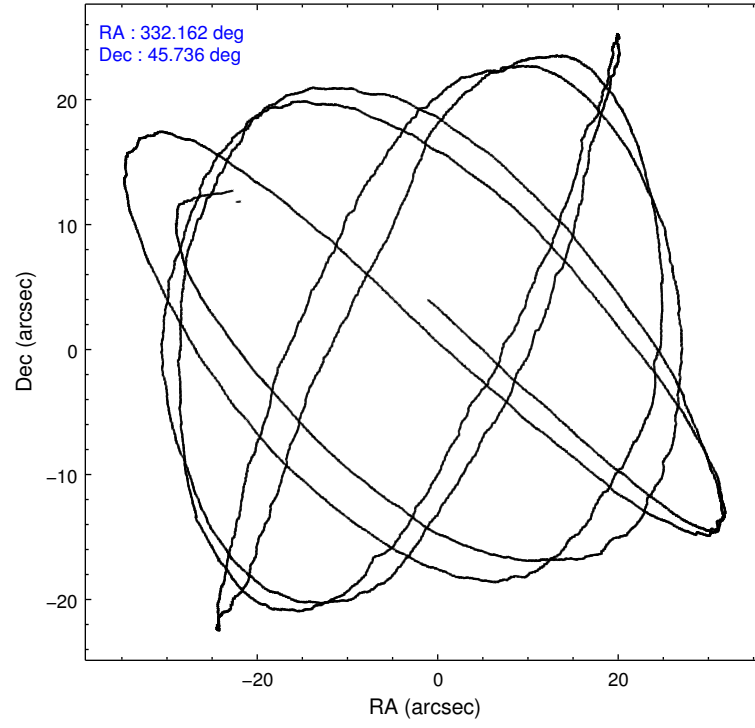
Level 1 Events

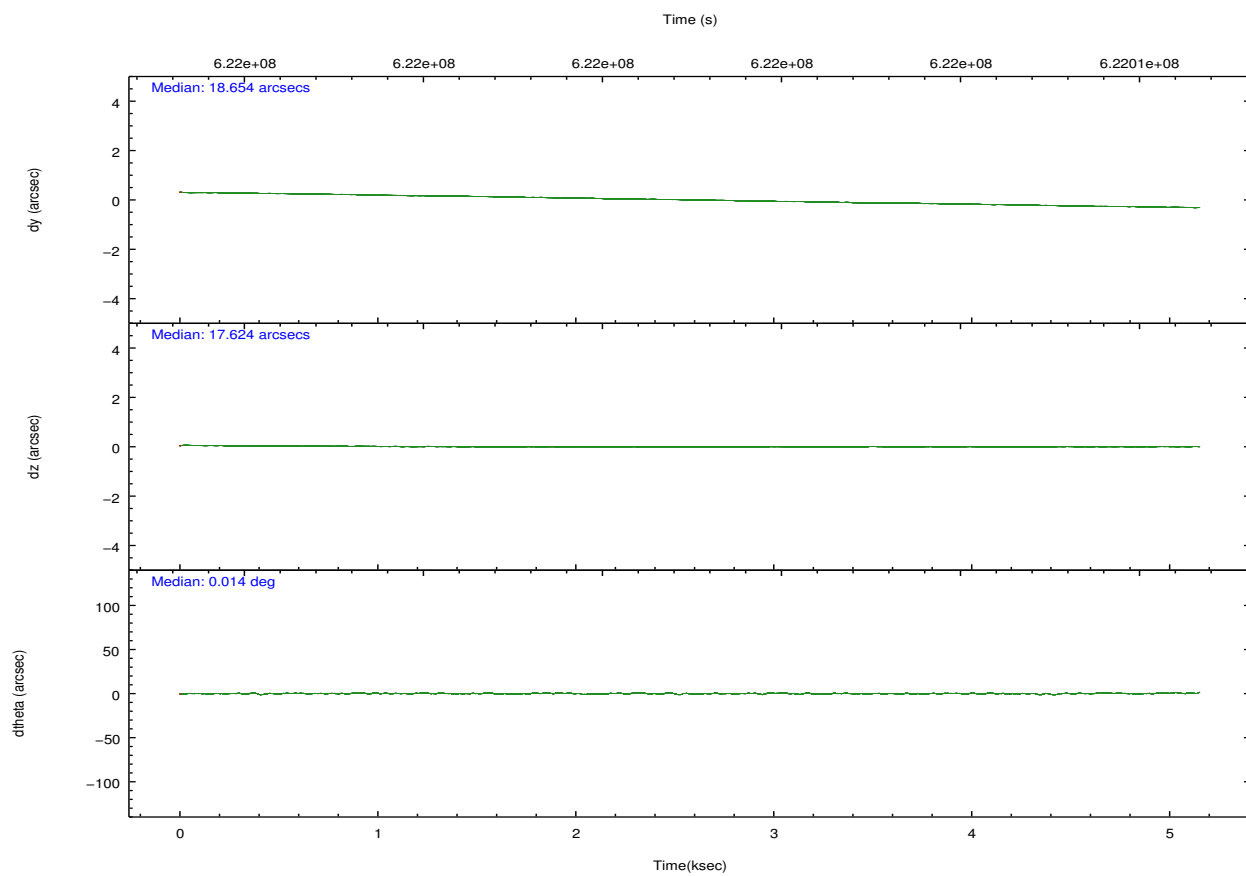
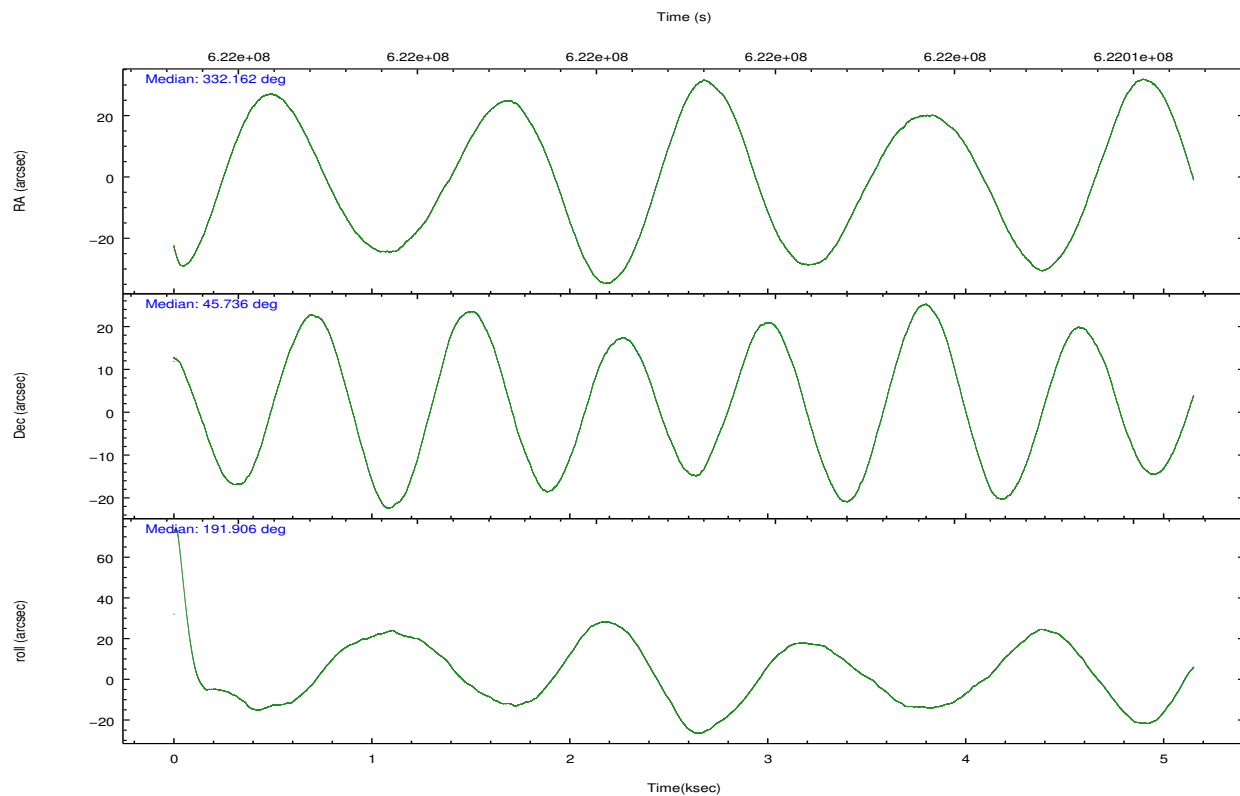
	segment 0
level 1 events	970203
rejected events	235231
rejected %	24%

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	332.189745	332.161563059172			
[deg] Pointing Dec	45.755116	45.73626269960841			
[deg] Pointing Roll	191.985857	191.9107278960248			
[s] Window start time (MET)	617932869.184000	617932869.184000			
[s] Window stop time (MET)	625795269.184000	625795269.184000			
[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)	622001058.184000	621999641.55265			
Observation start date	2017-09-17T02:03:09	2017-09-17T01:40:41			
[s] Observation end time (MET)	622006058.184000	622006472.66554			
Observation end date	2017-09-17T03:26:29	2017-09-17T03:34:32			

2.3 Aspect



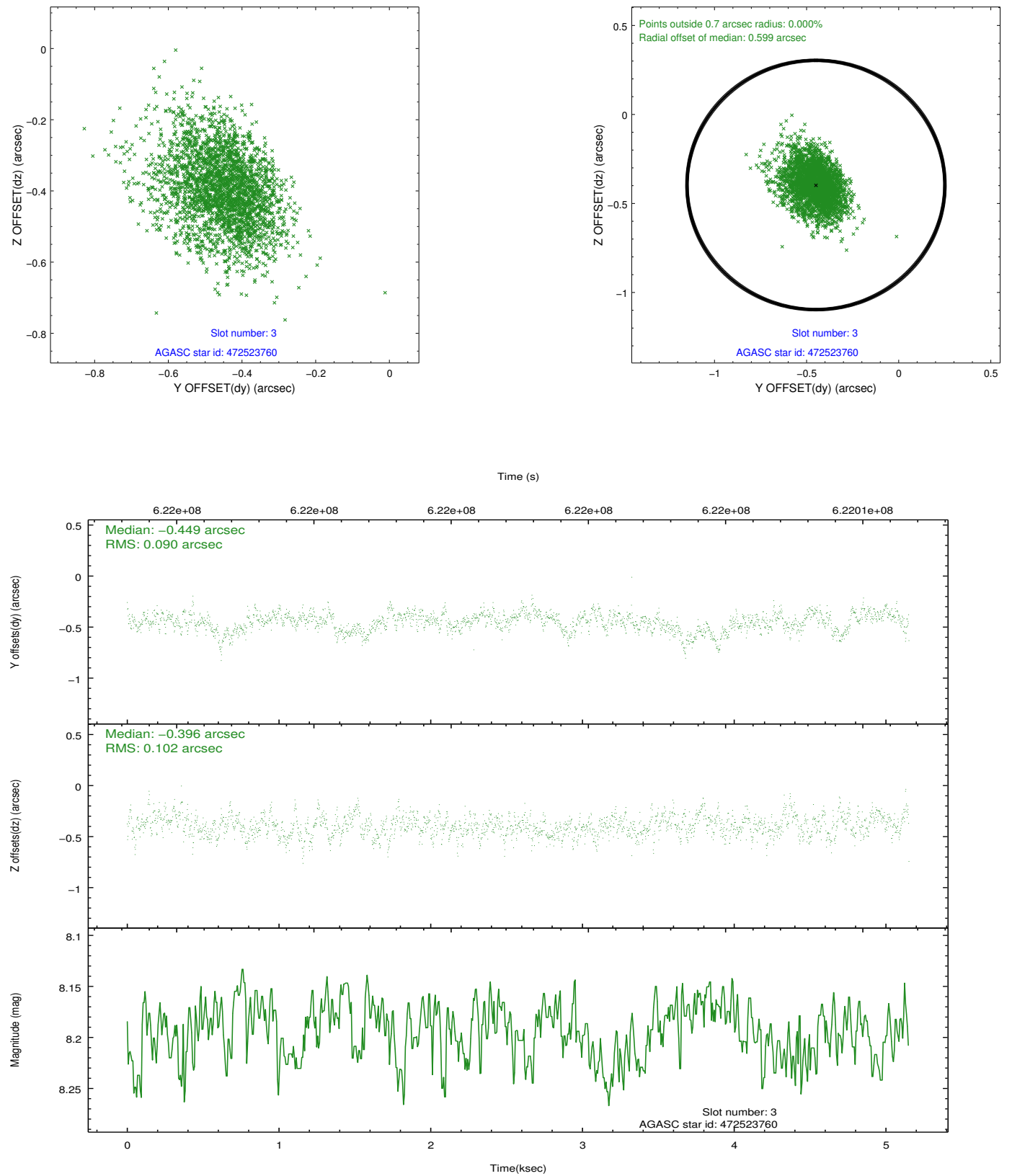


Slot Statistics

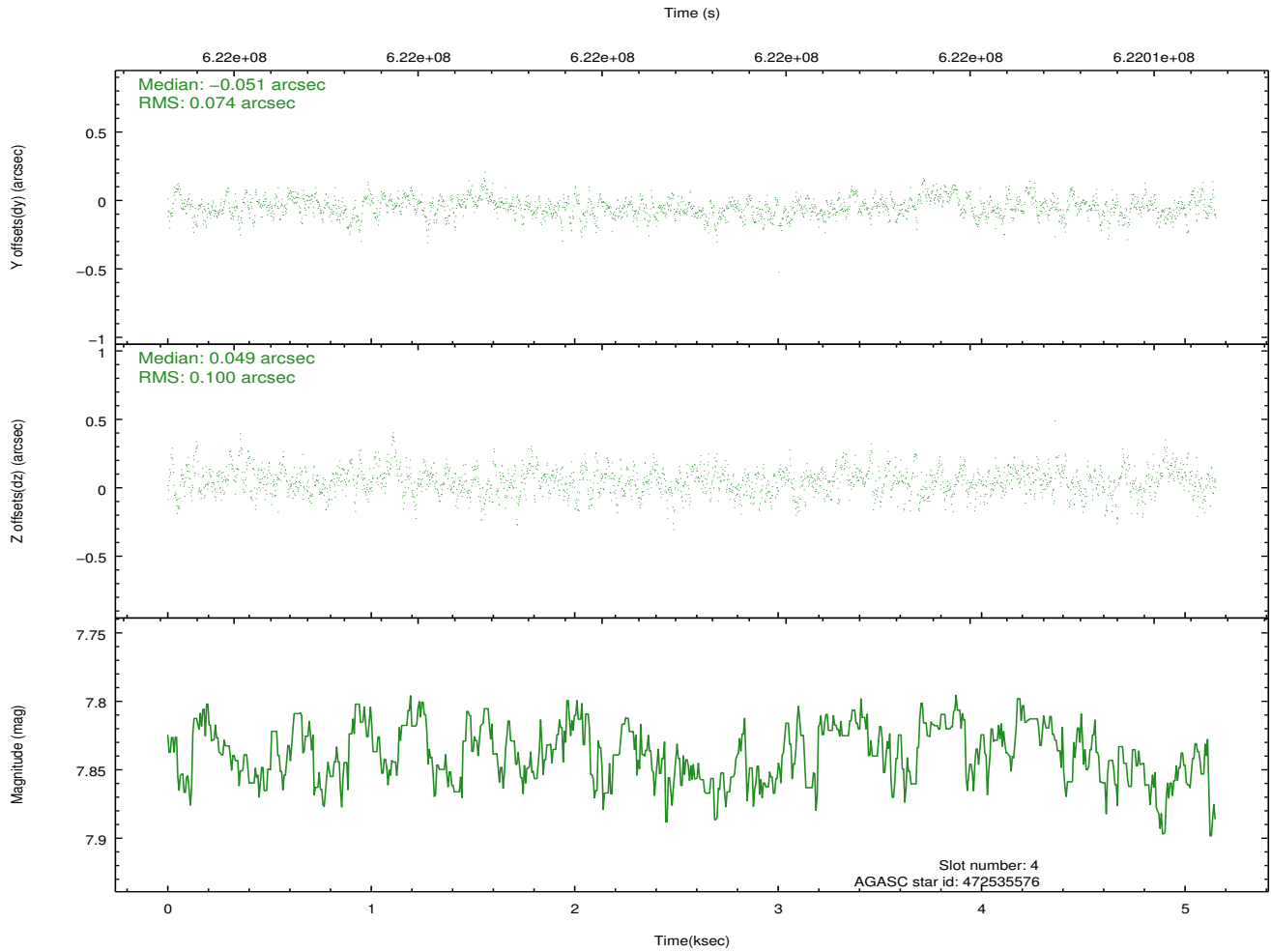
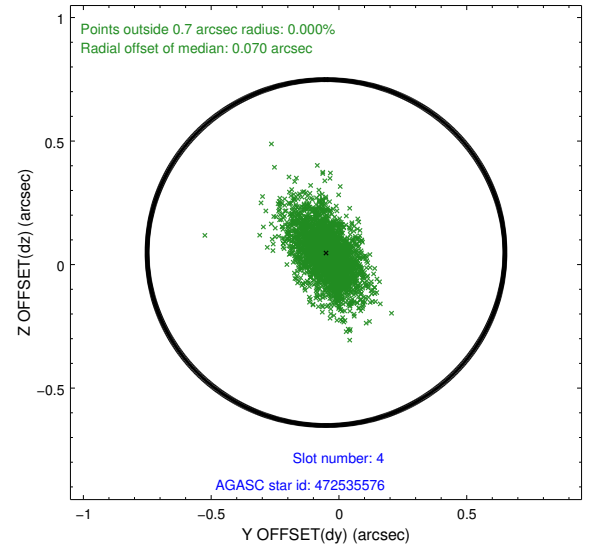
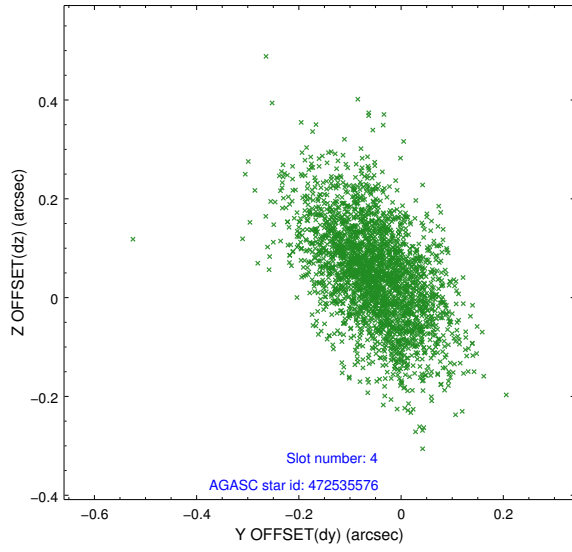
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	1257	-0.093	-0.083	0.007	0.013	0.000000	0.000000	-774.77	-1305.80
1	FID		HRC-I-3	7.10	1257	-0.227	-0.107	0.009	0.016	0.000000	0.000000	-1203.80	997.74
2	FID		HRC-I-4	7.03	1257	0.434	0.099	0.007	0.012	0.000000	0.000000	1267.80	997.17
3	GUIDE	used	472523760	8.19	2514	-0.449	-0.396	0.142	0.236	331.645363	45.403260	1609.02	948.17
4	GUIDE	used	472535576	7.84	2514	-0.051	0.049	0.128	0.227	331.438373	46.291802	1427.35	-2286.60
5	GUIDE	used	472655152	9.39	2511	0.076	-0.040	0.232	0.394	332.504239	45.862991	-850.34	-218.86
6	GUIDE	used	472665256	8.96	2512	0.397	0.233	0.144	0.248	332.808125	46.195041	-1836.11	-1235.43
7	GUIDE	used	472533912	9.11	2510	0.027	0.159	0.197	0.334	331.791136	46.368695	510.11	-2369.49

2.4 Star Slots

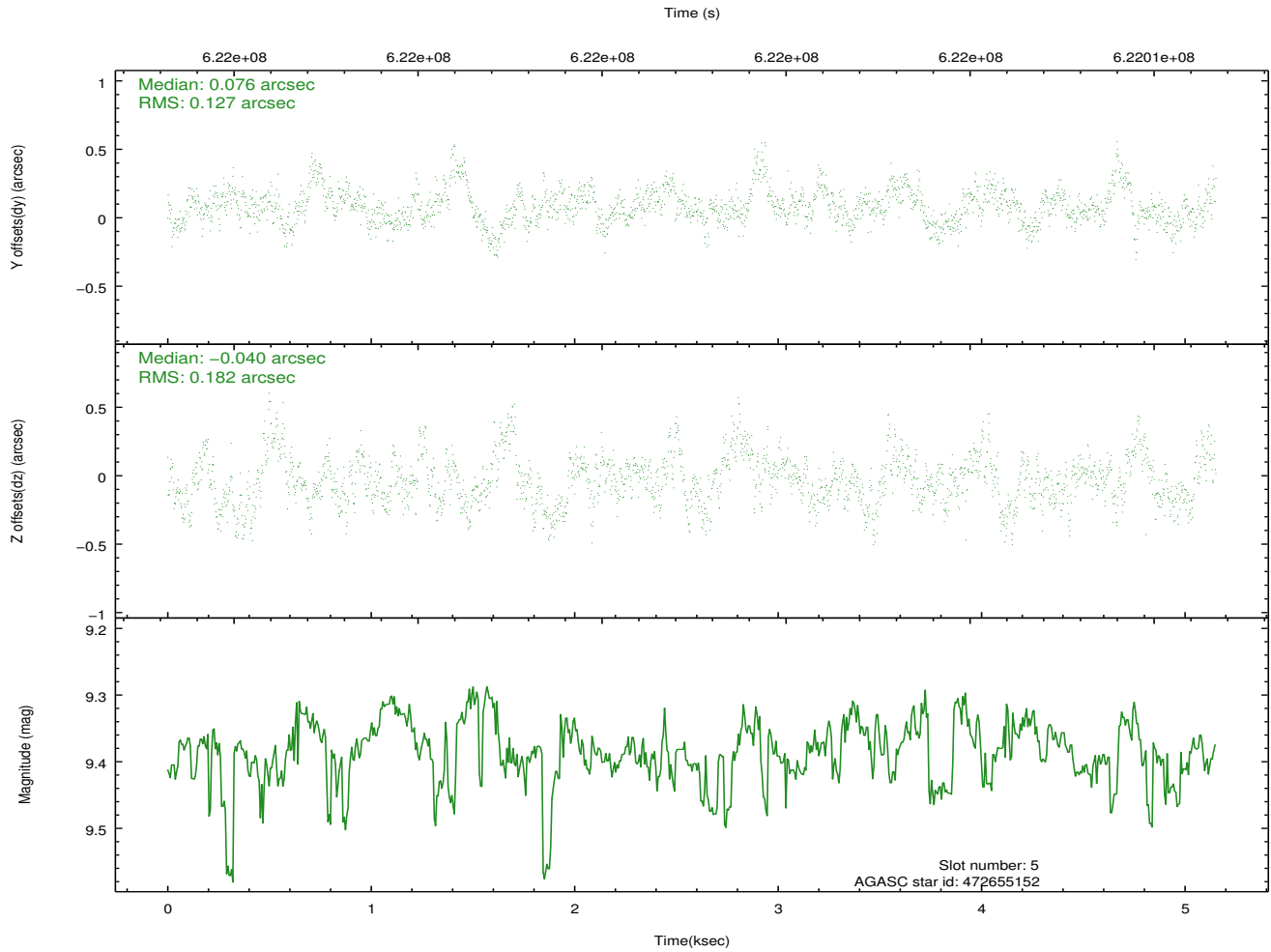
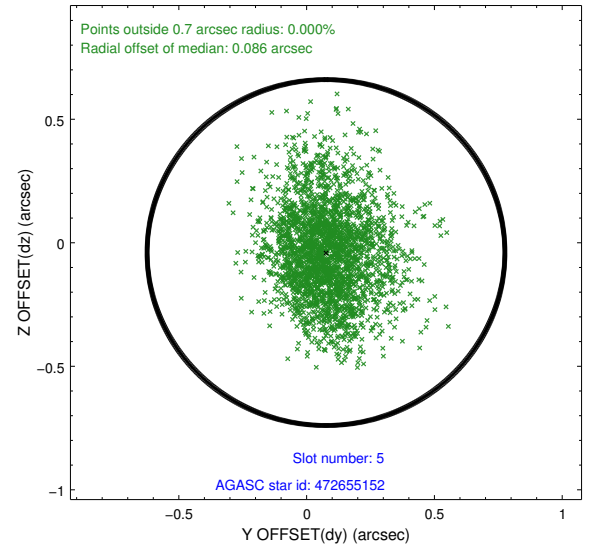
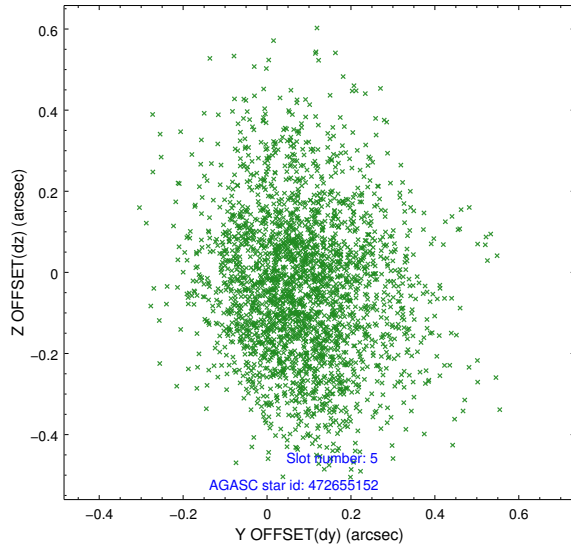
2.4.1 Slot 3



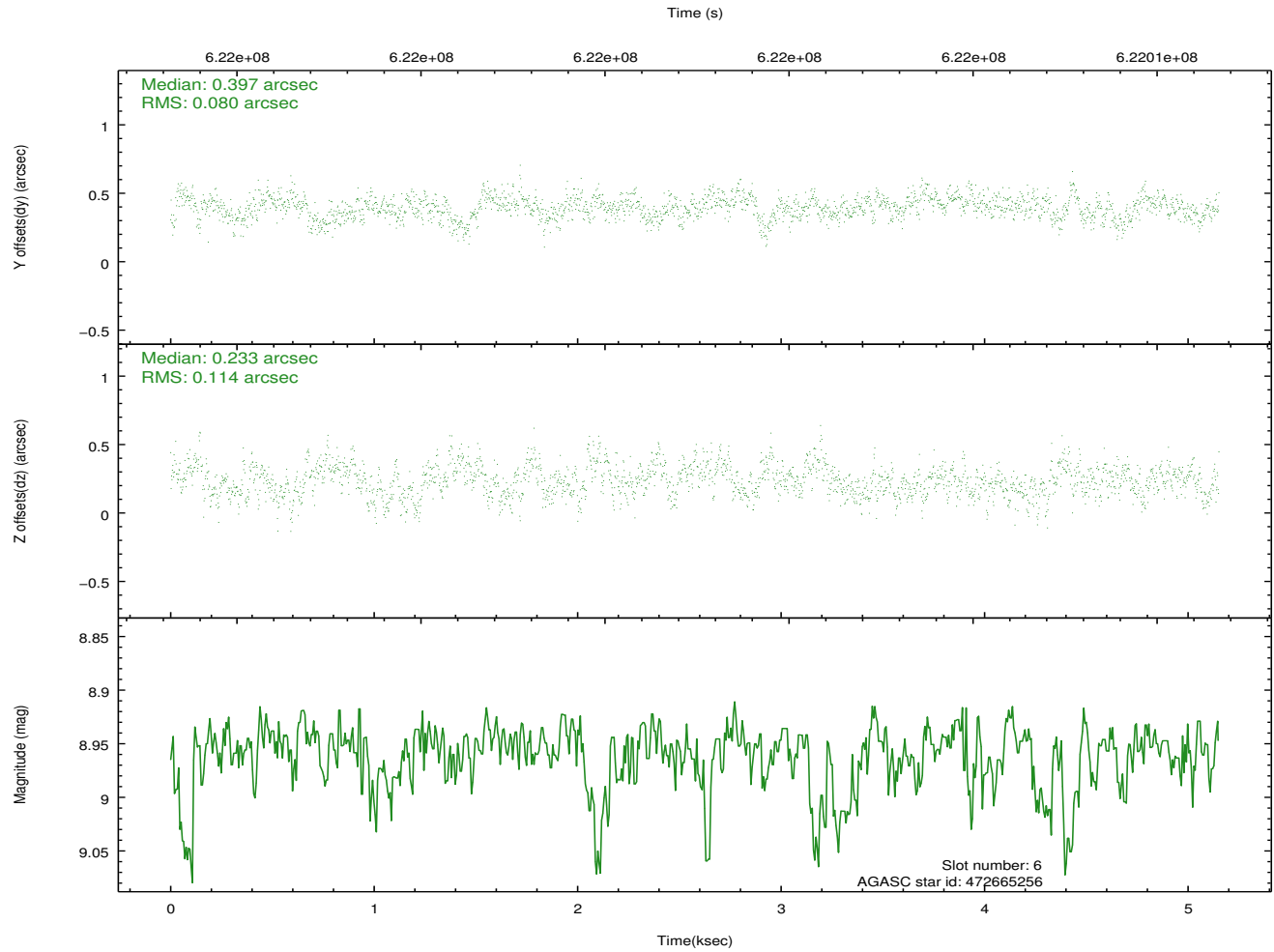
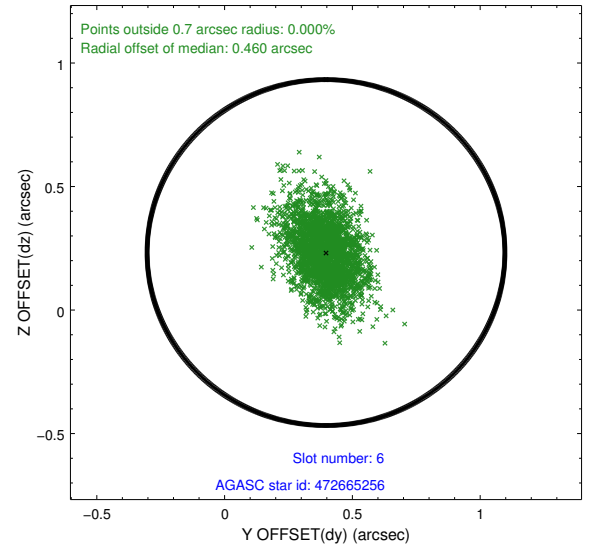
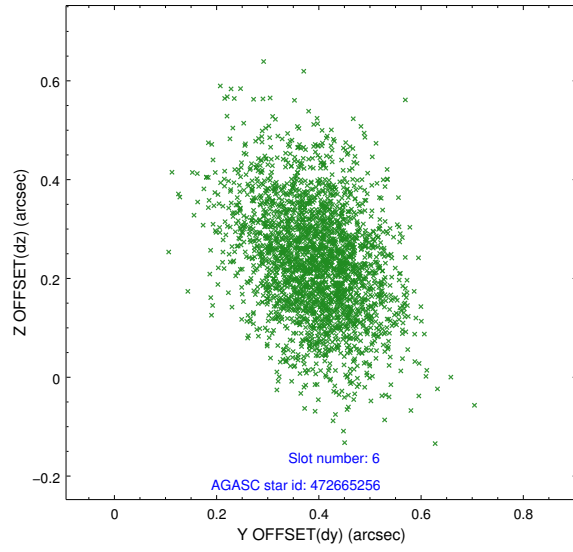
2.4.2 Slot 4



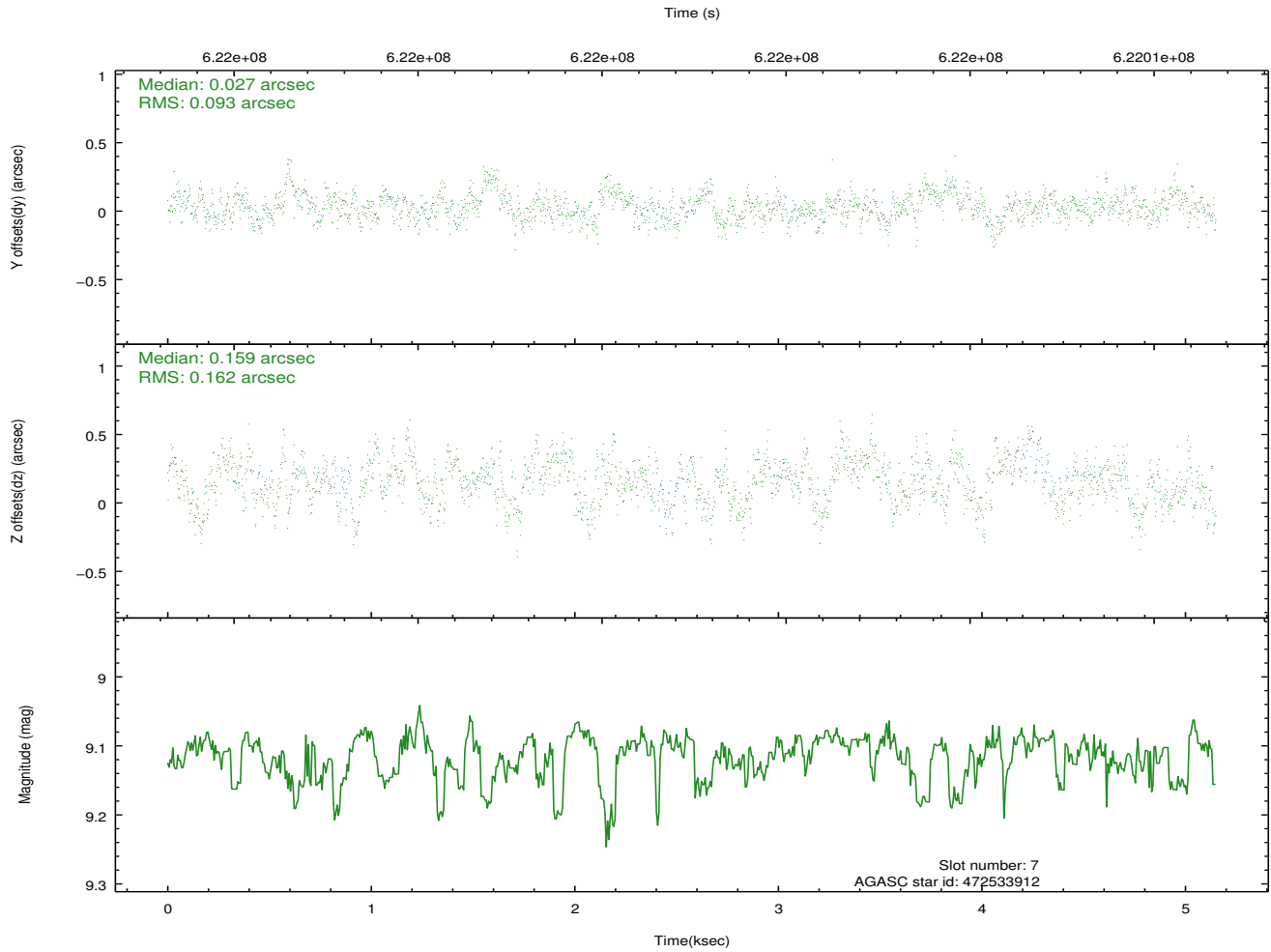
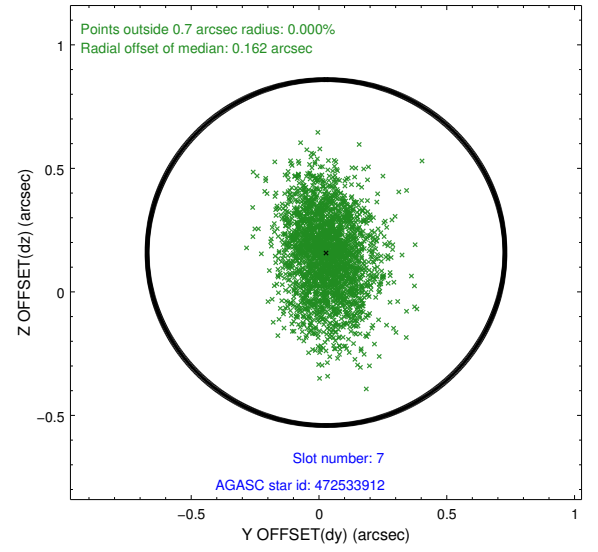
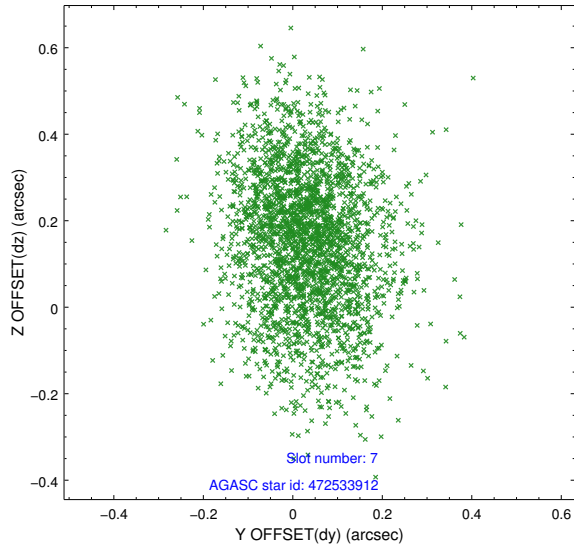
2.4.3 Slot 5



2.4.4 Slot 6

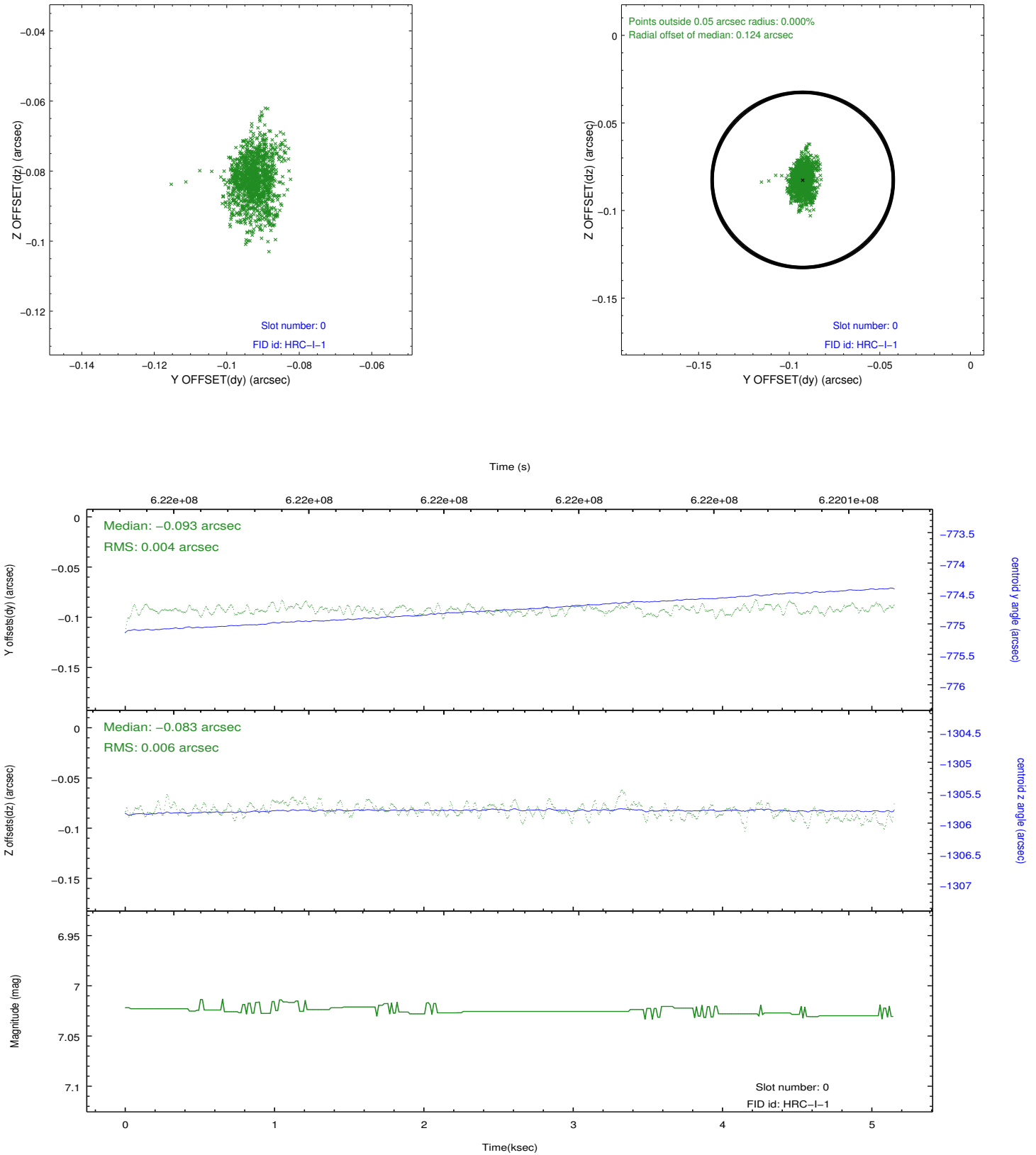


2.4.5 Slot 7

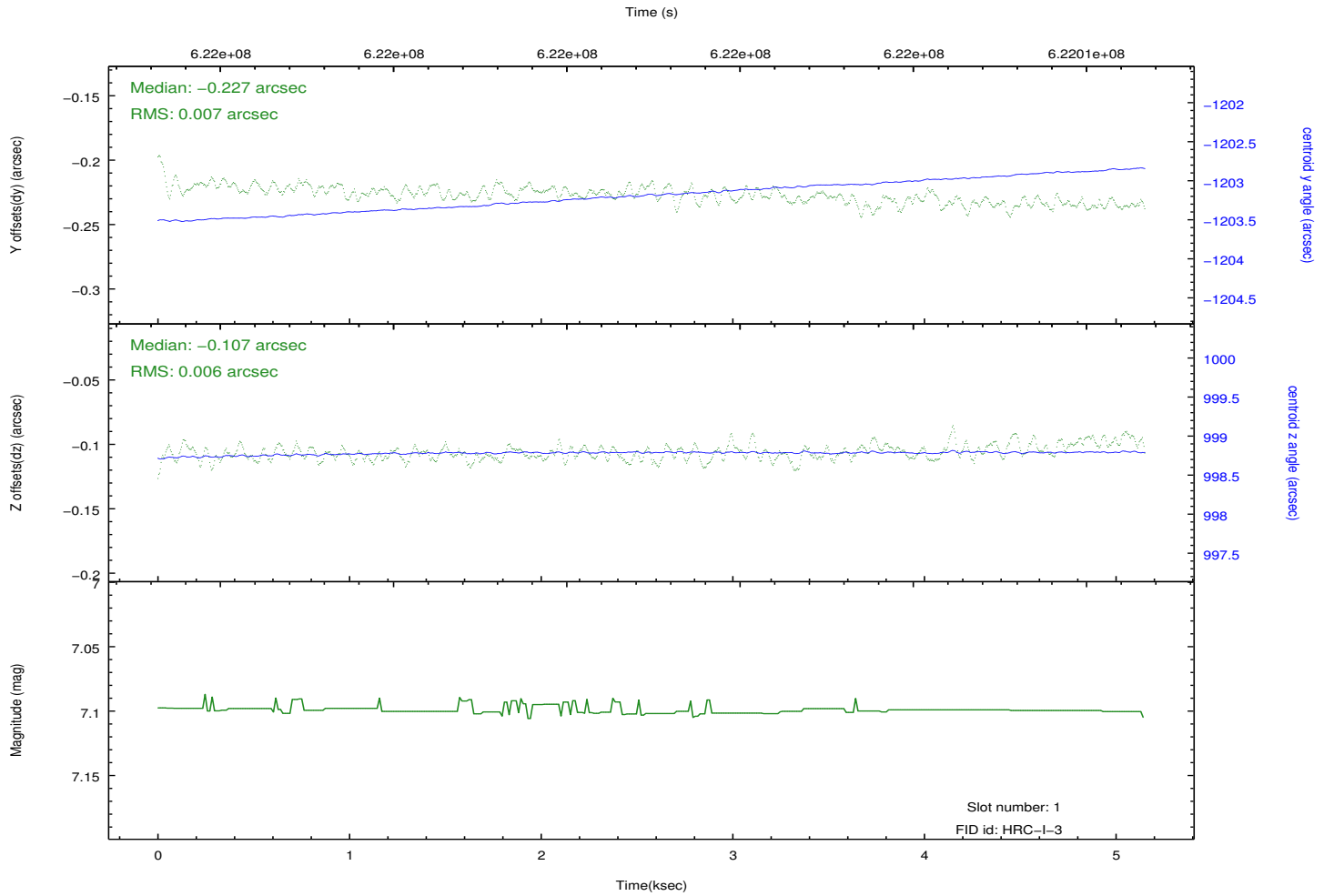
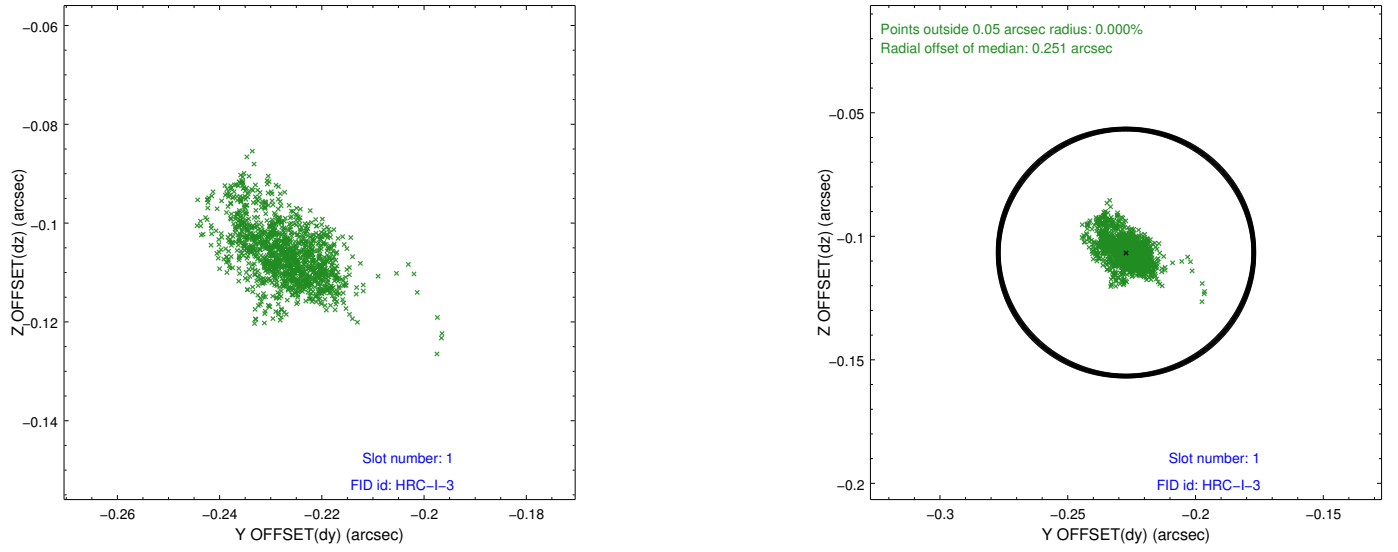


2.5 FID Slots

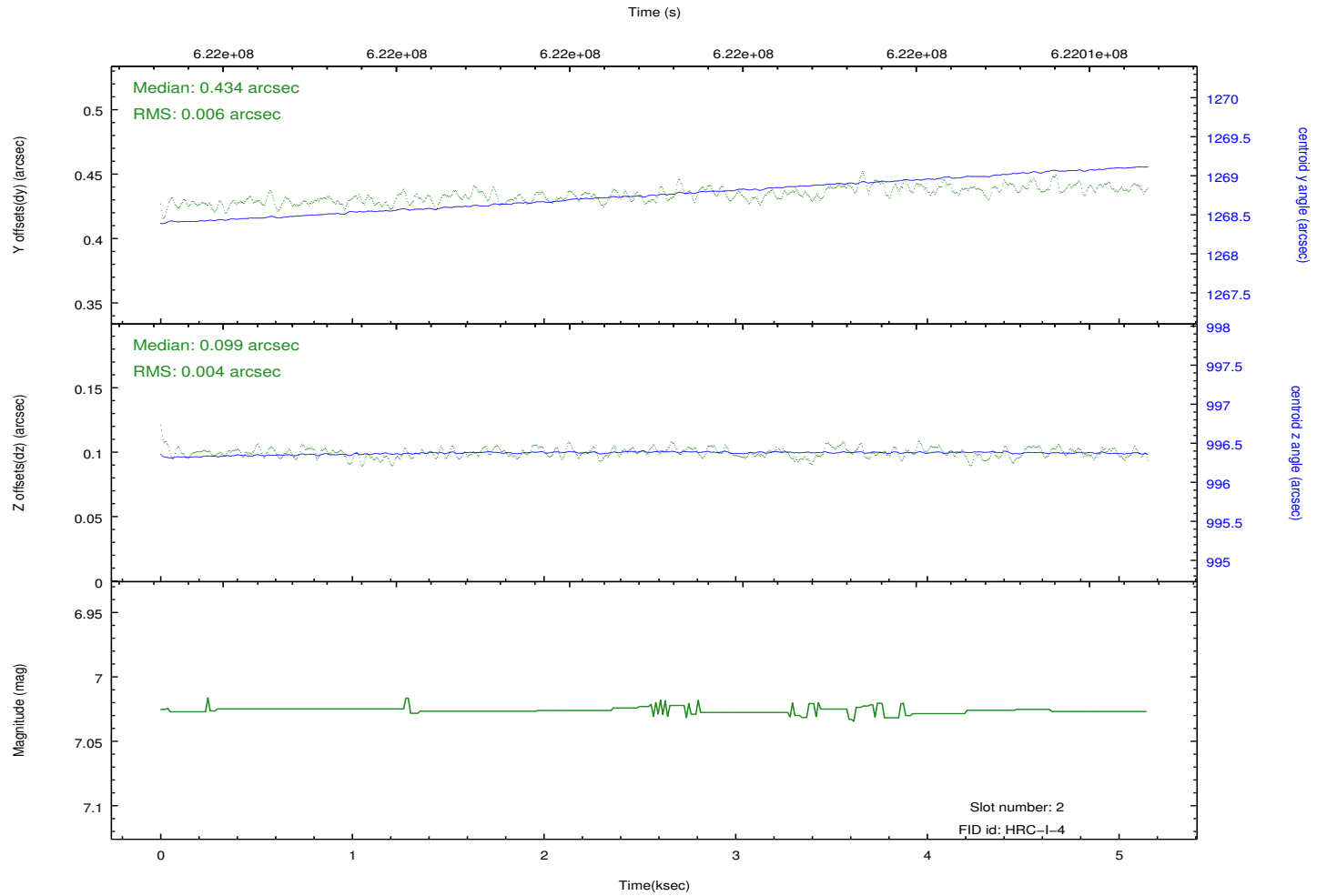
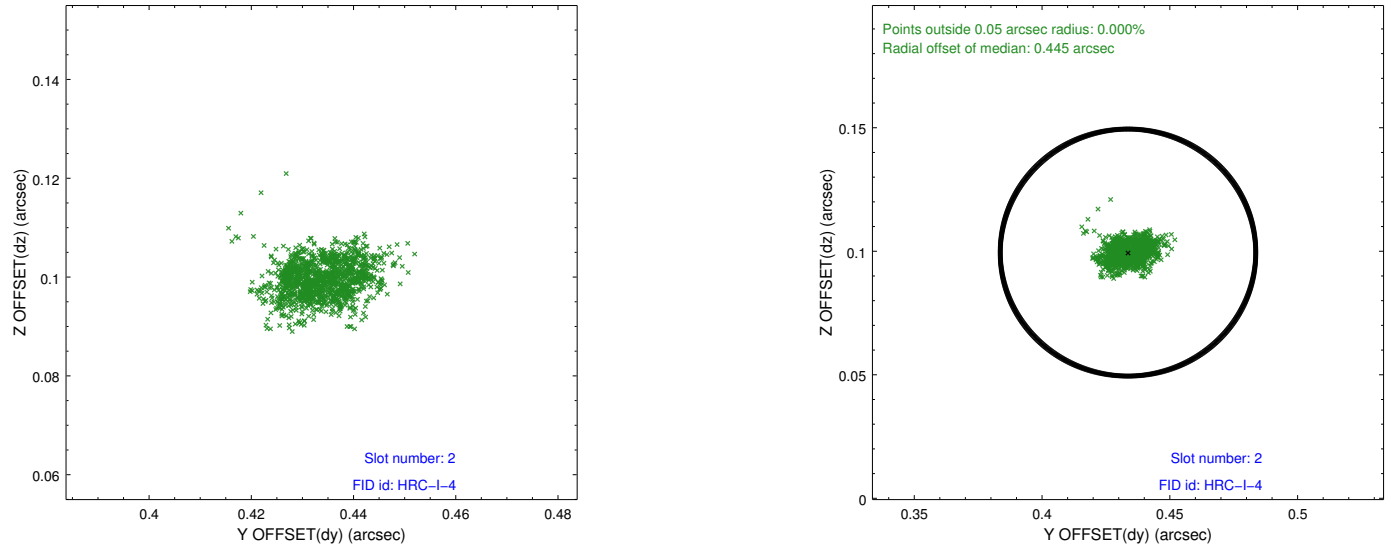
2.5.1 Slot 0



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)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1508815511465

A.2 Comments

Window constraint met.