

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21741 - L2 Version 1
Chandra X-Ray Center

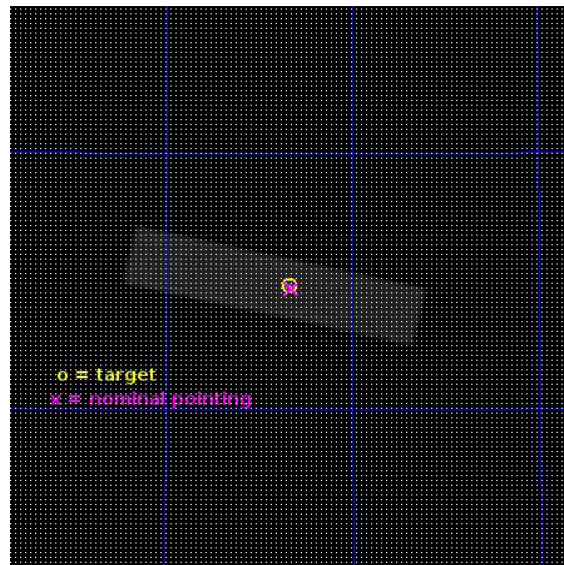
L2 Processing Date : Sep 4 2019

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1 Front

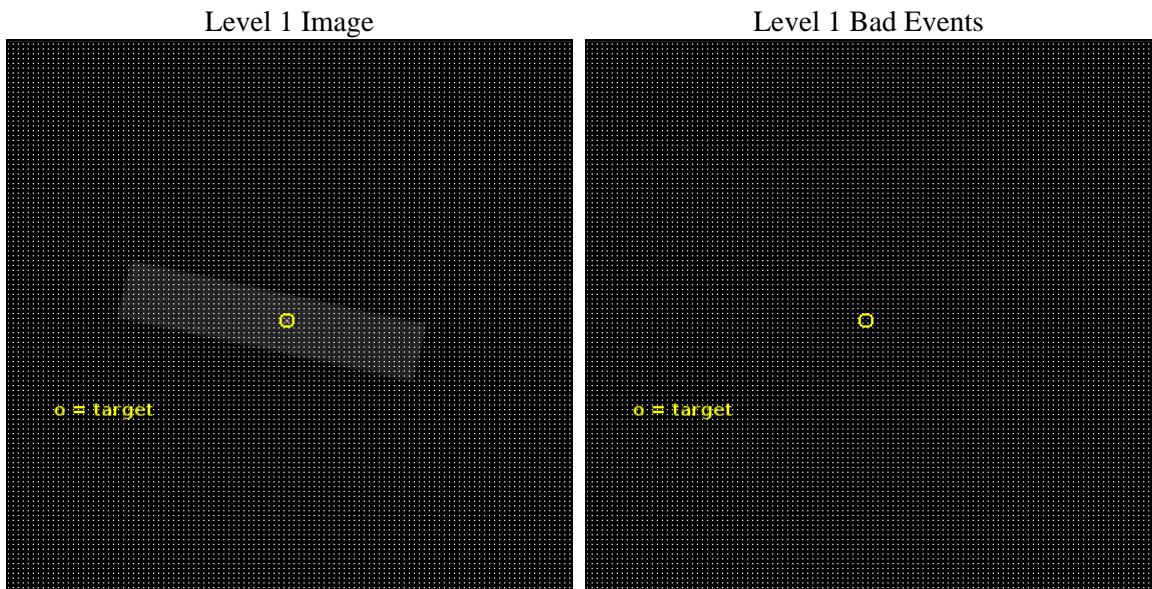
seq_num	291427	Sequence number
obs_id	21741	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.16316461761	Nominal RA [deg]
dec_nom	45.736425800266	Nominal Dec [deg]
roll_nom	192.64386714023	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3130.3501883745	[s]
livetime	3099.81616708	Ontime multiplied by DTCOR
l2events	266673	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	3130.3501883745	[s]
caldsver	4.8.4	 	l1events	361154	Number of level 1 events
date	2019-09-04T14:30:20	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

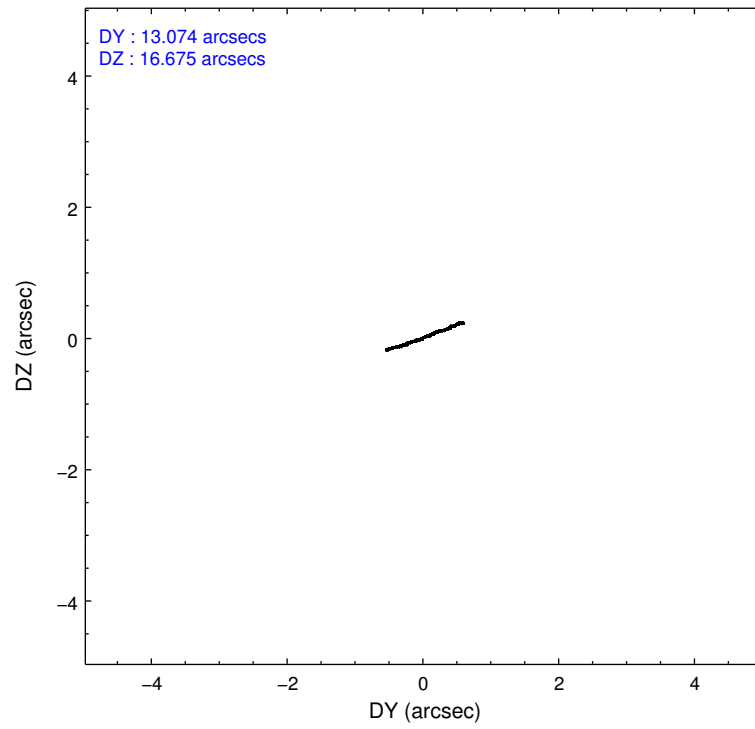
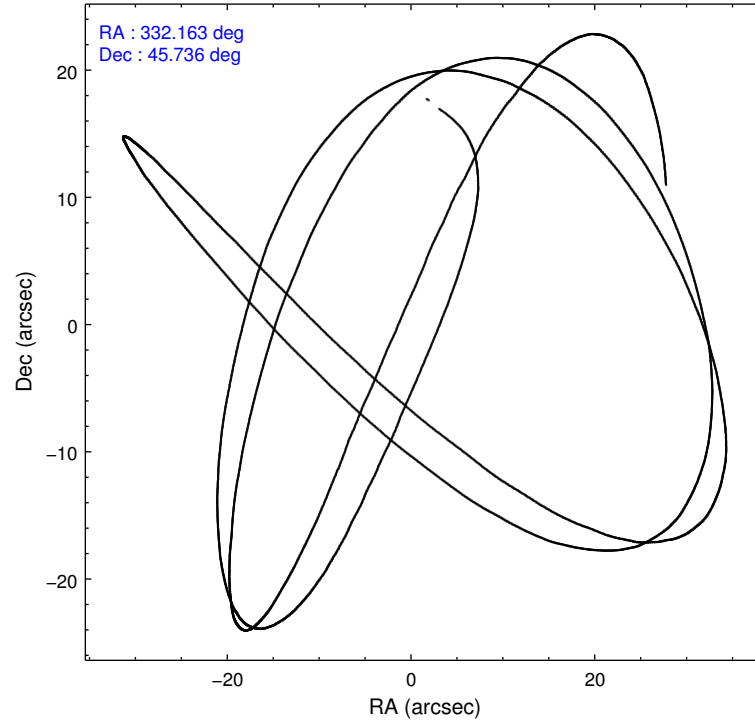
Level 1 Events

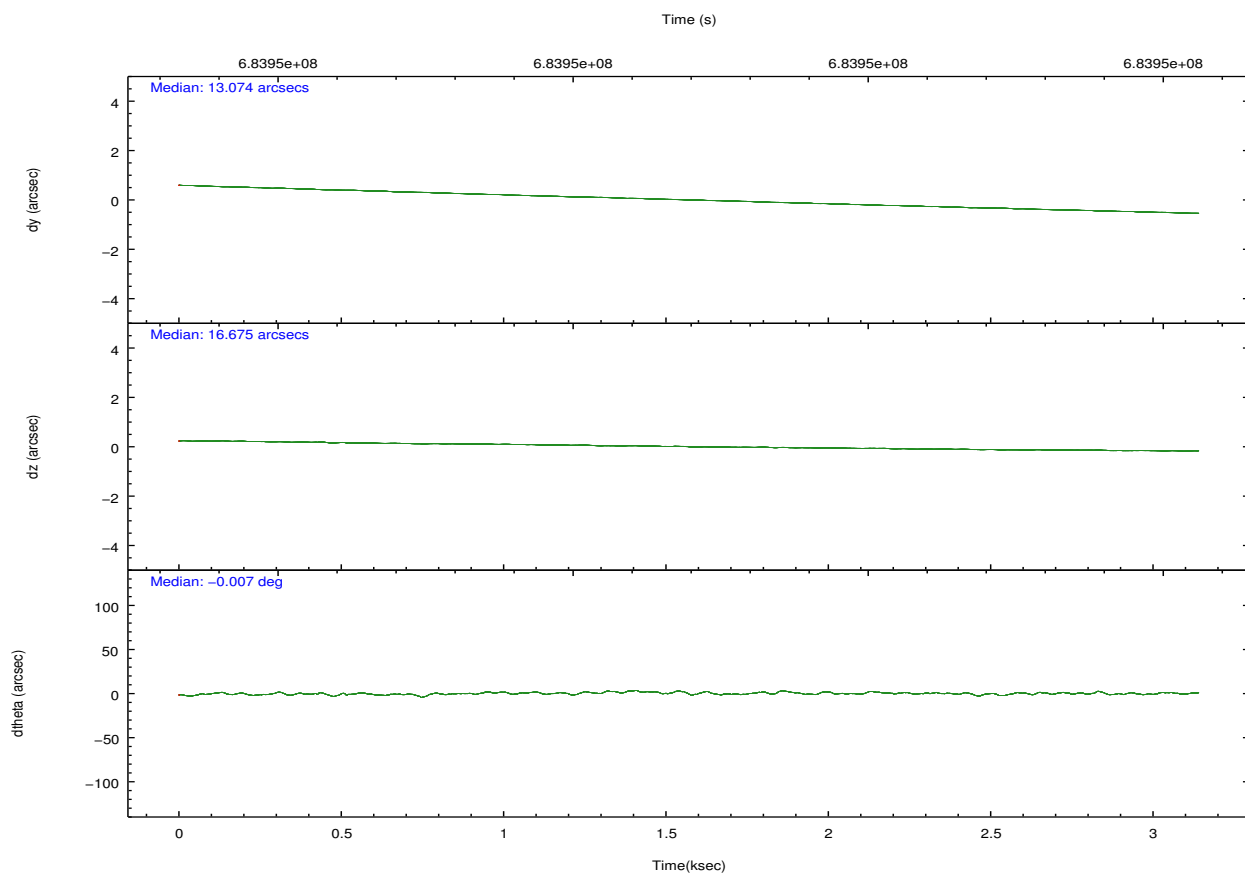
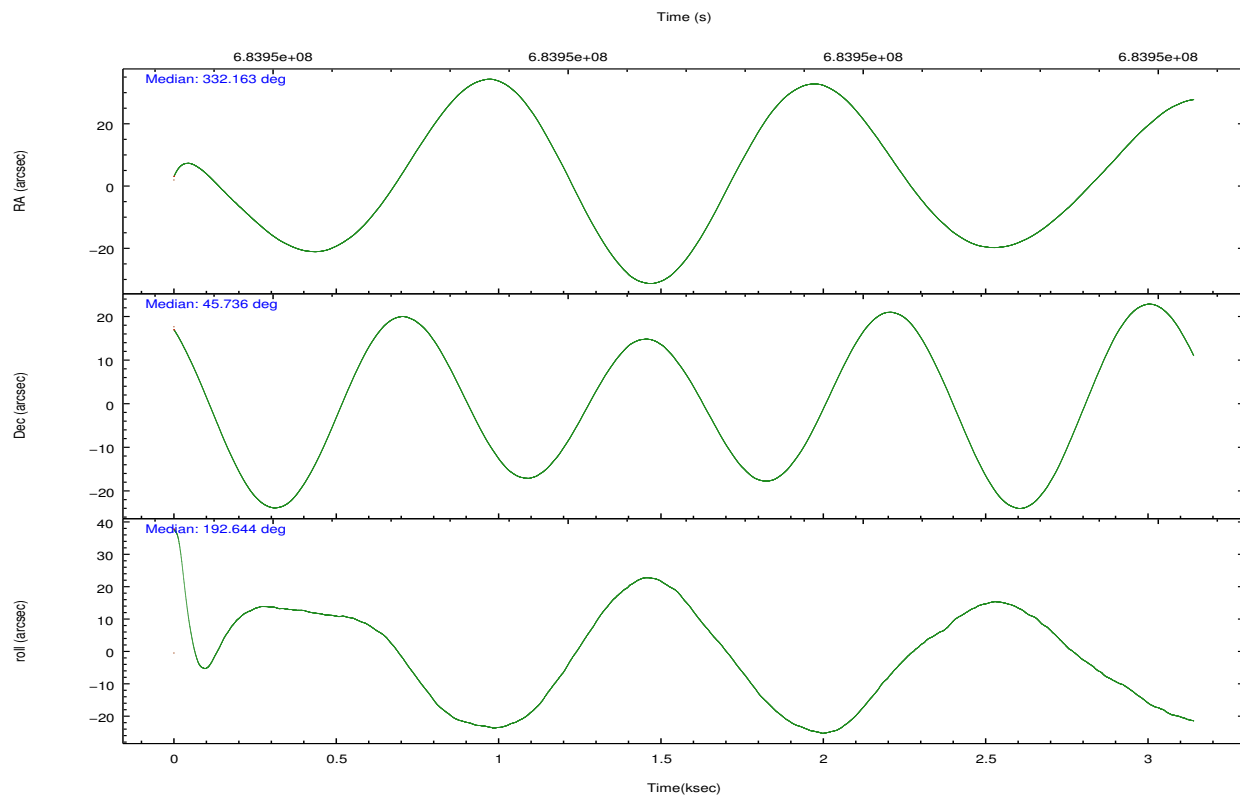
	segment 1	segment 2	segment 3
level 1 events	0	361154	0
rejected events	0	61359	0
rejected %	0%	16%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.192503	332.1631646176075			
[deg] Pointing Dec	45.756992	45.73642580026636			
[deg] Pointing Roll	192.555305	192.6438671402305			
[s] Window start time (MET)	683683269.184000	683683269.184000			
[s] Window stop time (MET)	686188869.184000	686188869.184000			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	683945988.184000	683945063.6732301			
Observation start date	2019-09-04T00:58:39	2019-09-04T00:44:23			
[s] Observation end time (MET)	683948988.184000	683949164.69848			
Observation end date	2019-09-04T01:48:39	2019-09-04T01:52:44			

2.3 Aspect



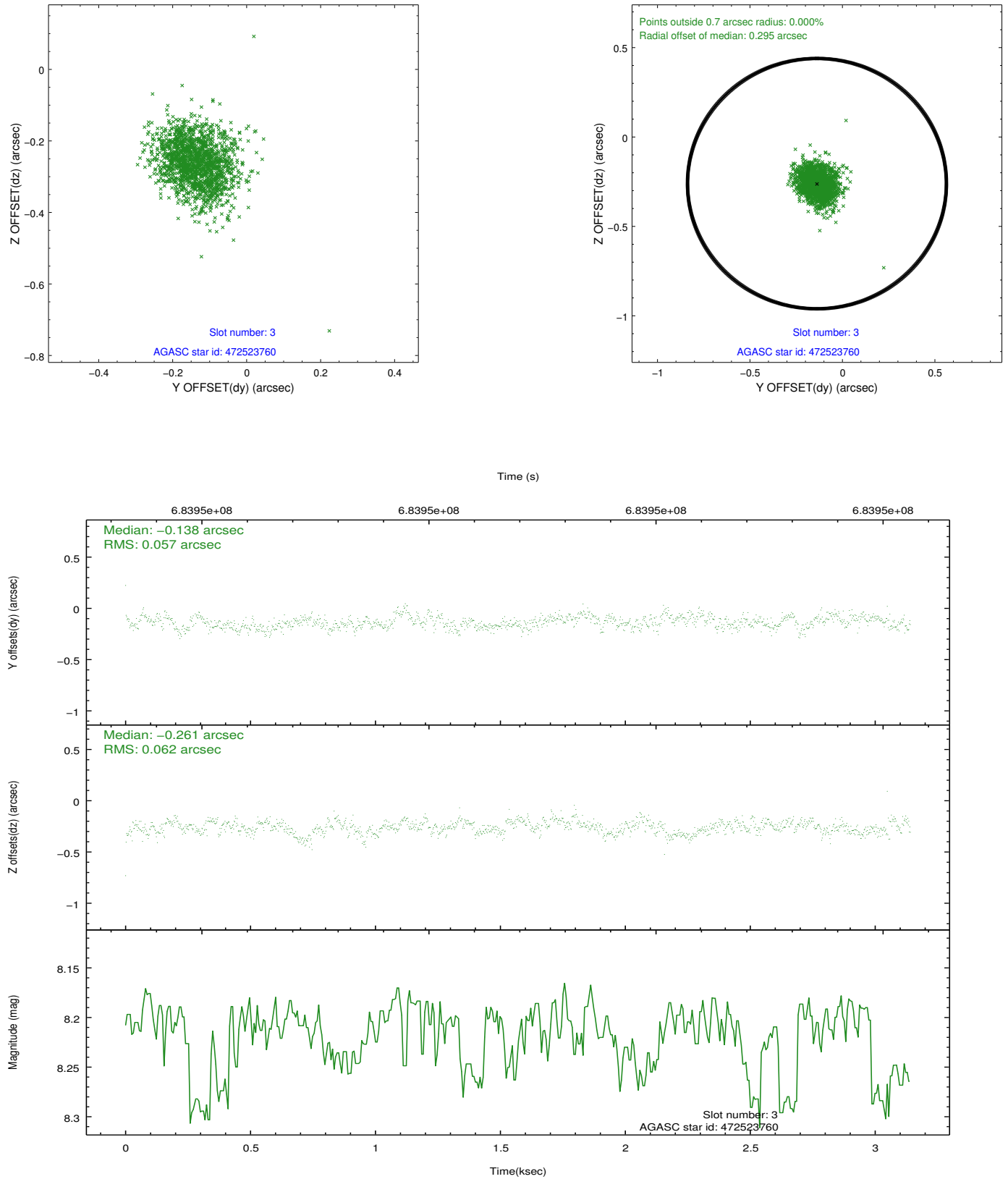


Slot Statistics

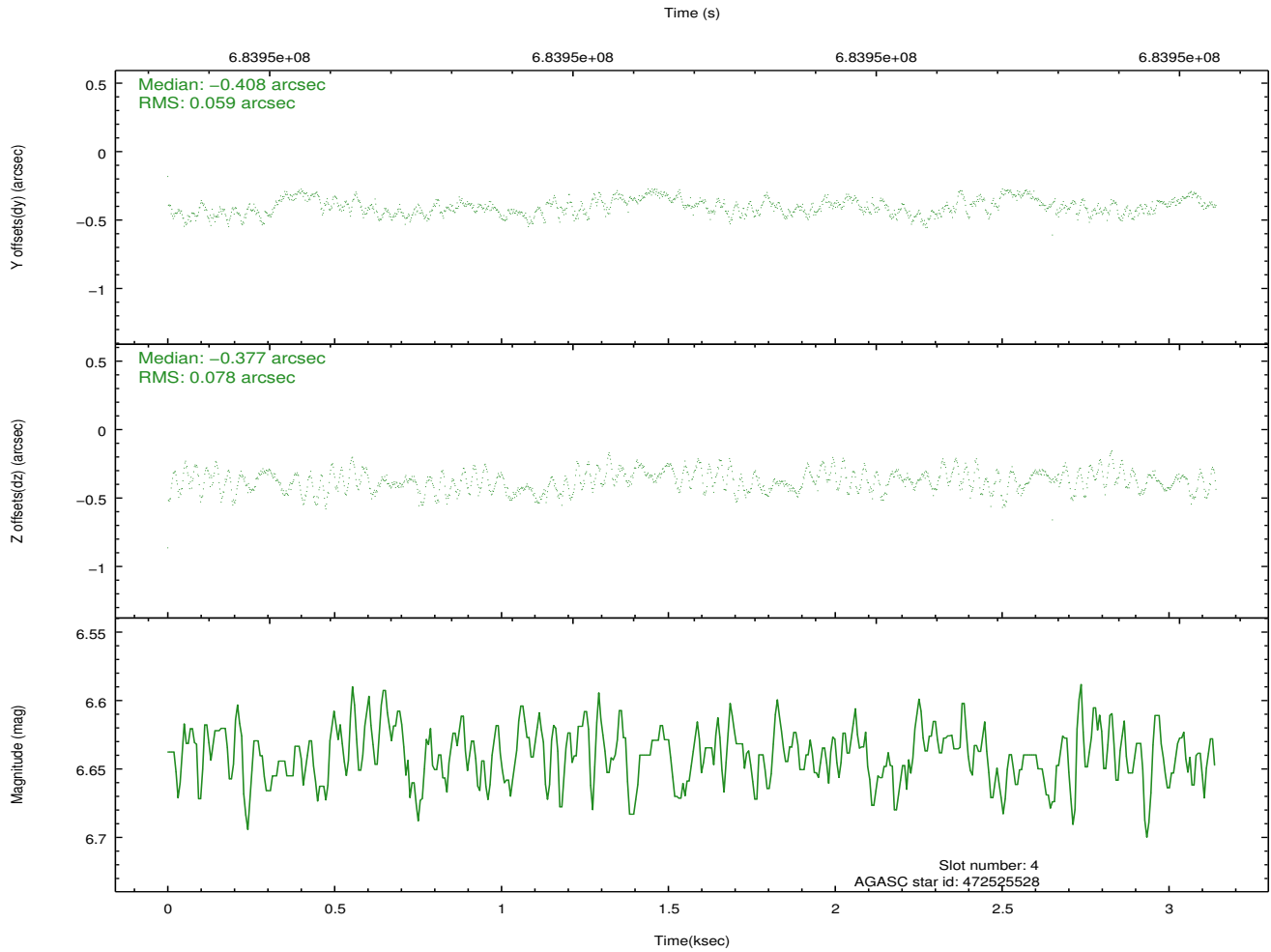
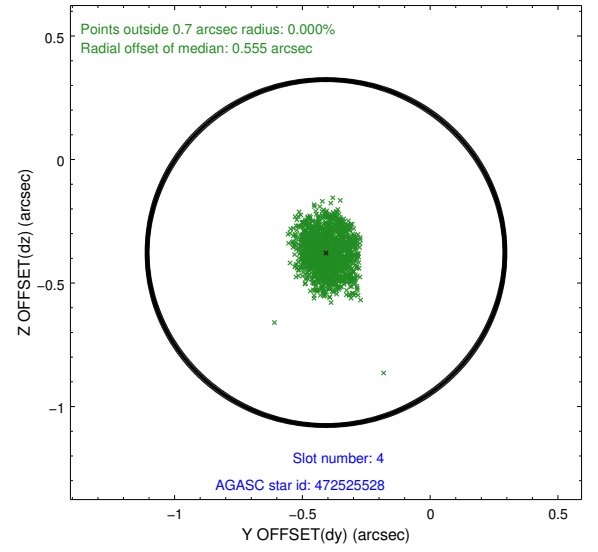
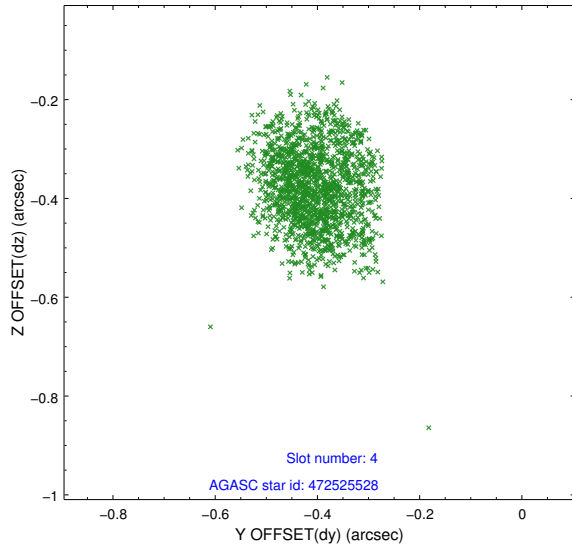
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.05	767	1.000	-0.158	-0.286	0.011	0.019	0.000000	0.000000	-1167.62	-465
1	FID		HRC-S-3	7.03	767	1.000	-0.069	-0.035	0.010	0.019	0.000000	0.000000	-1171.84	563
2	FID		HRC-S-4	7.01	767	1.000	0.615	0.024	0.007	0.011	0.000000	0.000000	1229.79	567
3	GUIDE	used	472523760	8.21	1531	1.000	-0.138	-0.261	0.088	0.139	331.645363	45.403260	1624.64	937
4	GUIDE	used	472525528	6.64	1533	1.000	-0.408	-0.377	0.106	0.158	331.551102	45.248694	1982.23	1426
5	GUIDE	used	472527720	6.99	1533	1.000	-0.385	-0.395	0.105	0.169	331.460205	45.112509	2318.04	1852
6	GUIDE	used	472535576	7.84	1533	1.000	0.264	0.357	0.107	0.204	331.438373	46.291802	1411.29	-2294
7	GUIDE	used	472665256	8.94	1531	1.000	0.670	0.686	0.124	0.203	332.808125	46.195041	-1841.09	-1212

2.4 Star Slots

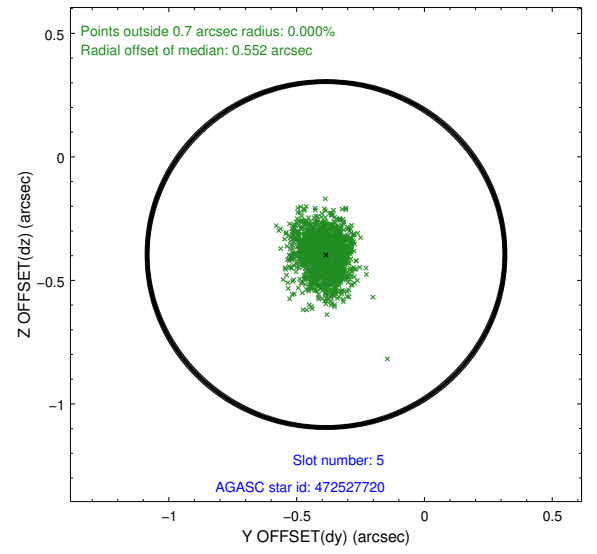
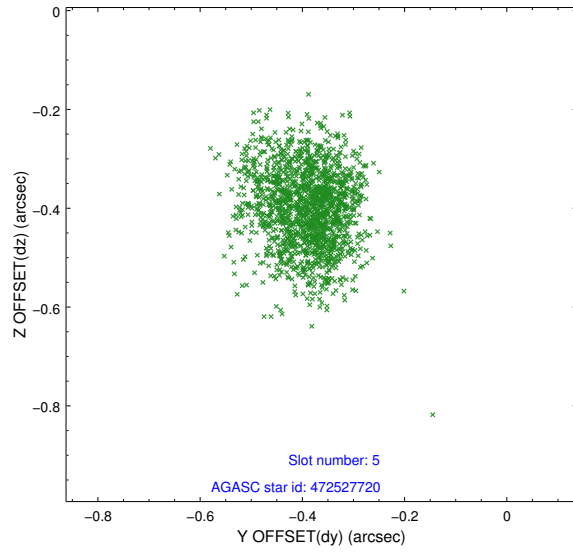
2.4.1 Slot 3



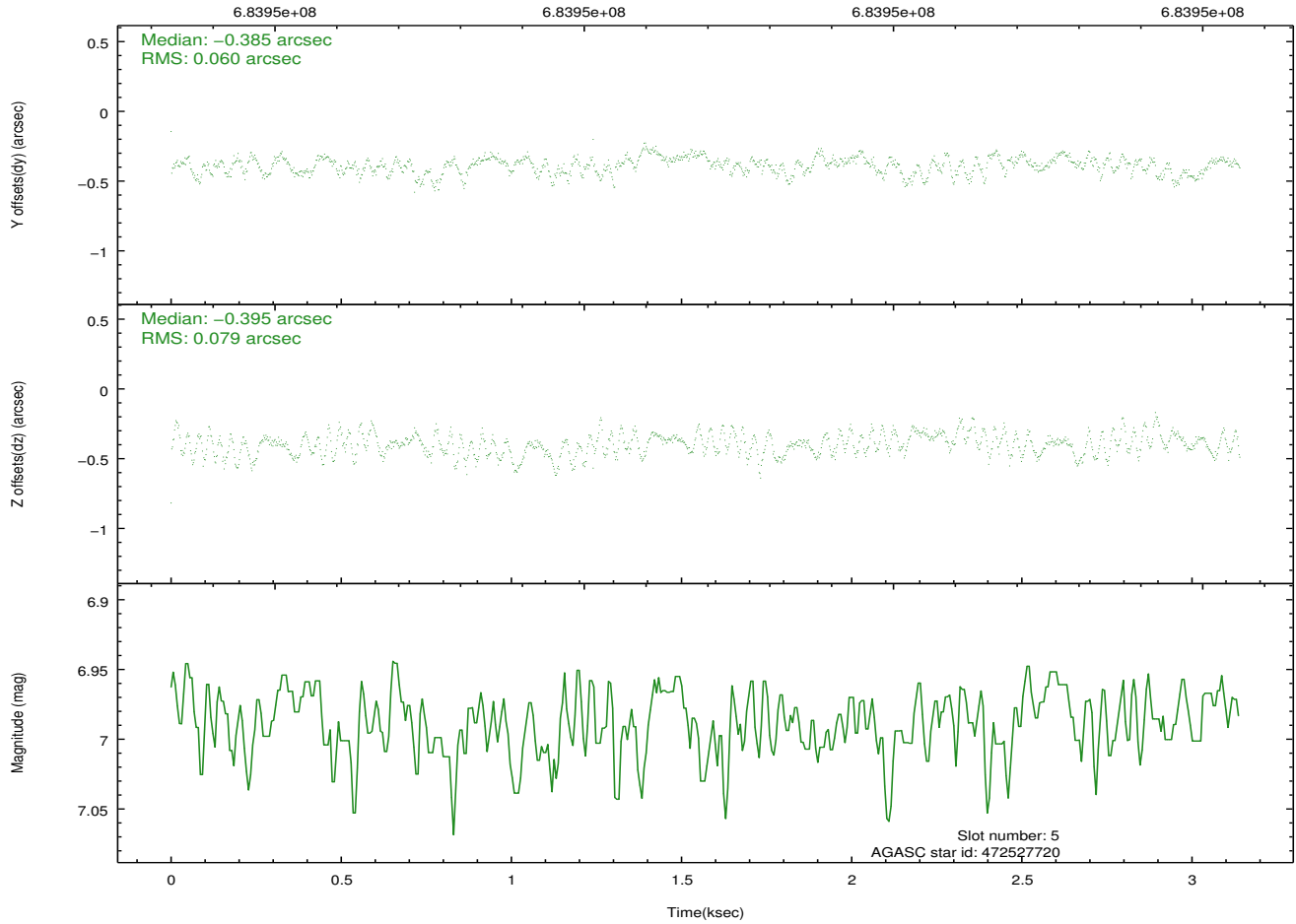
2.4.2 Slot 4



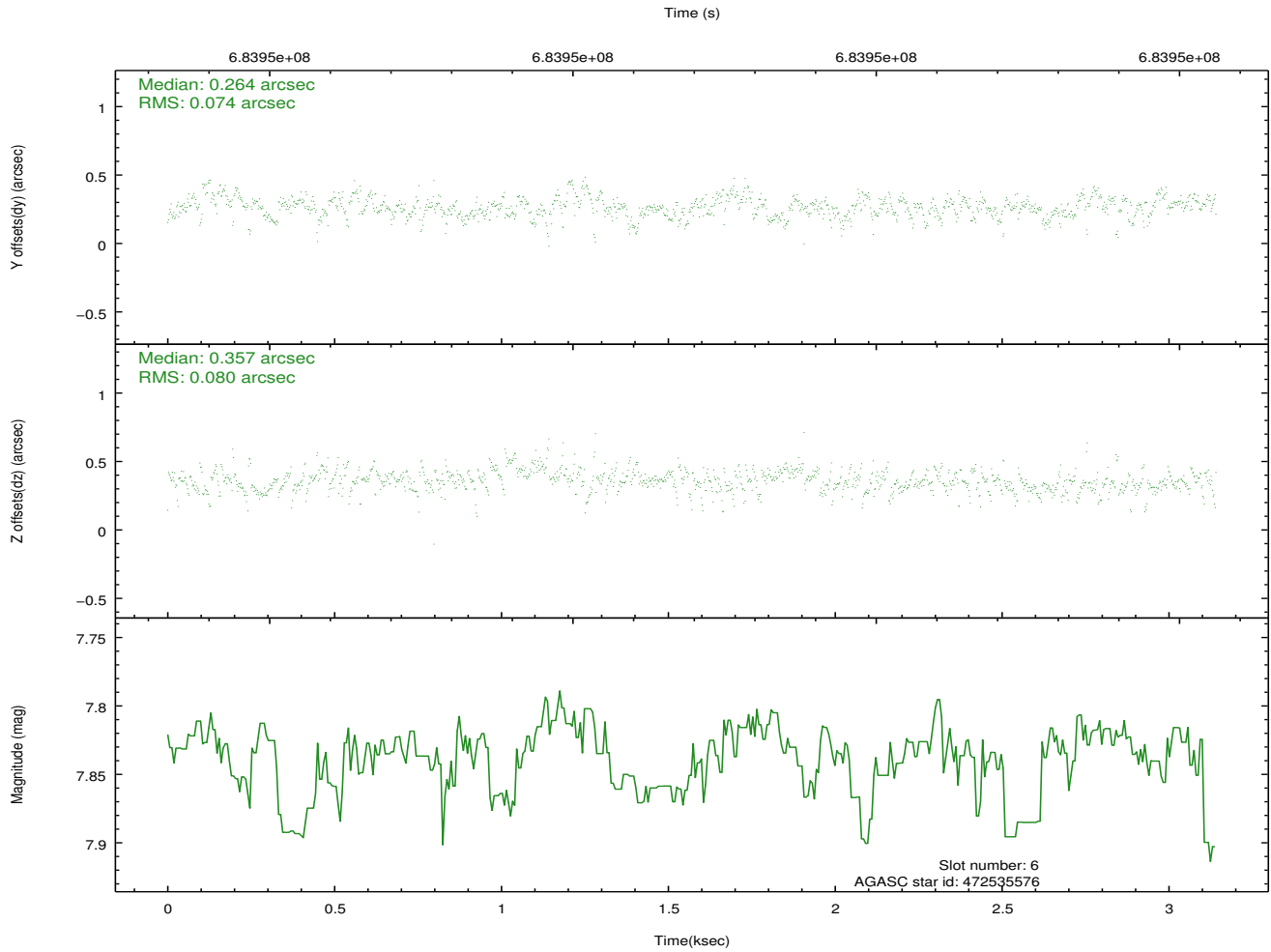
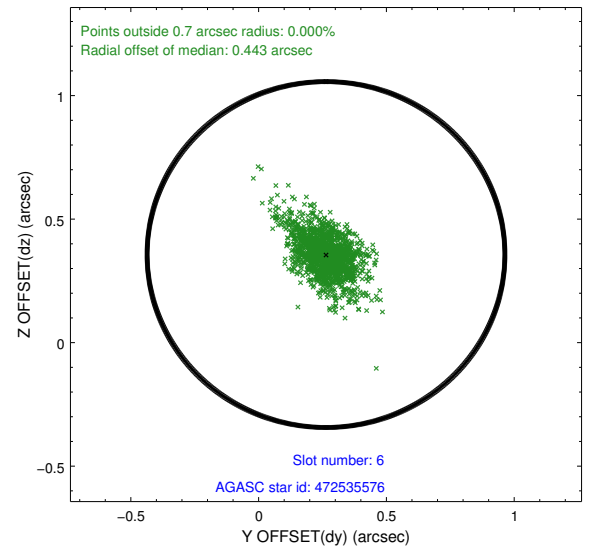
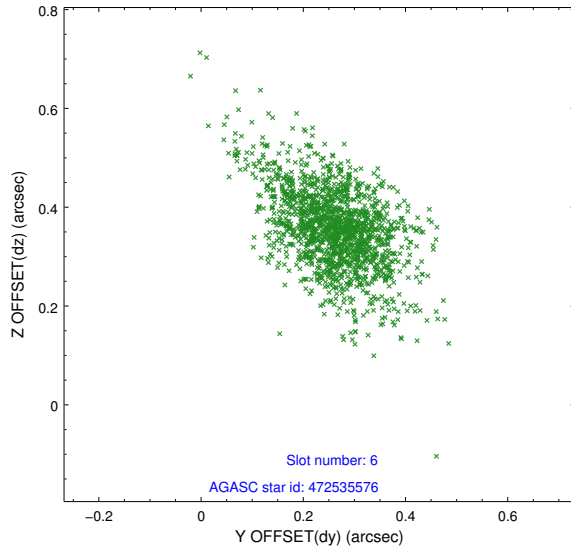
2.4.3 Slot 5



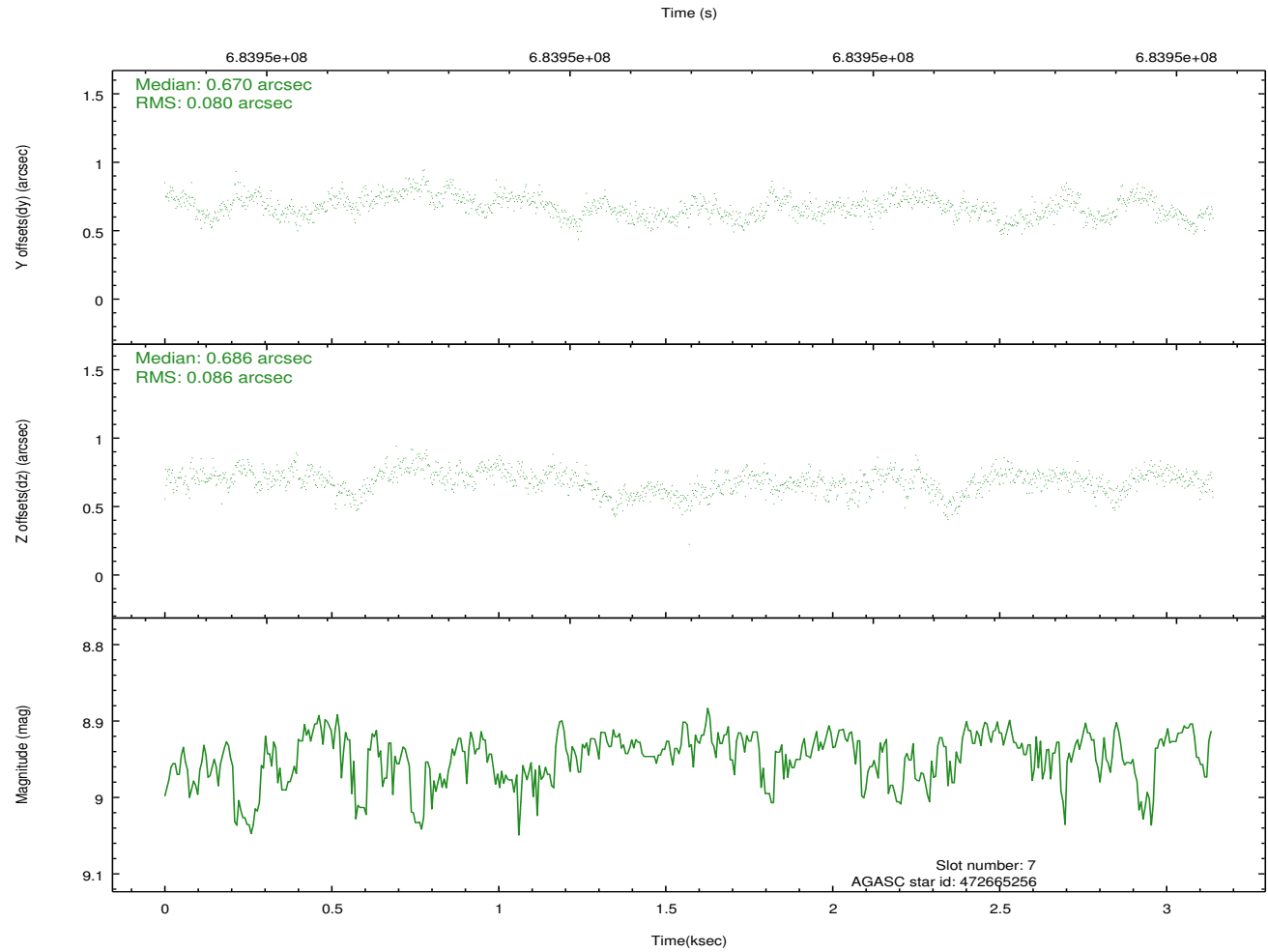
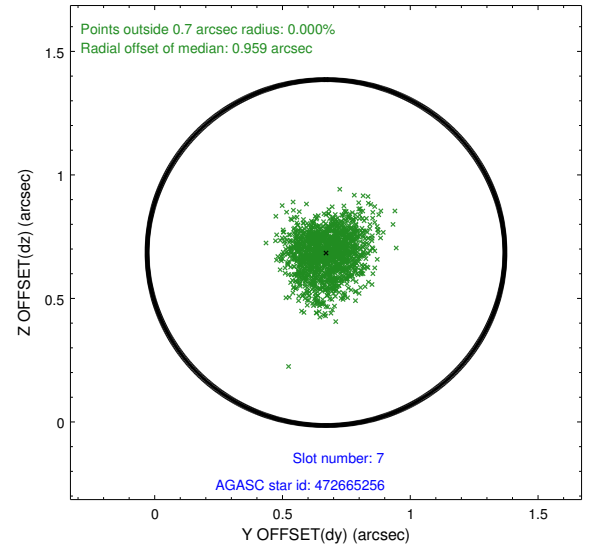
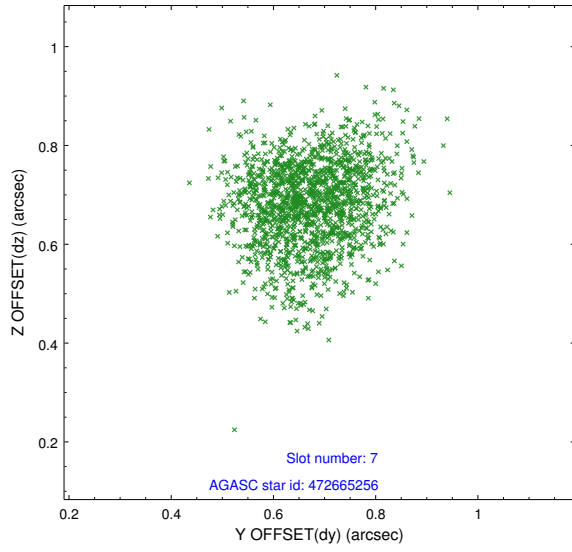
Time (s)



2.4.4 Slot 6

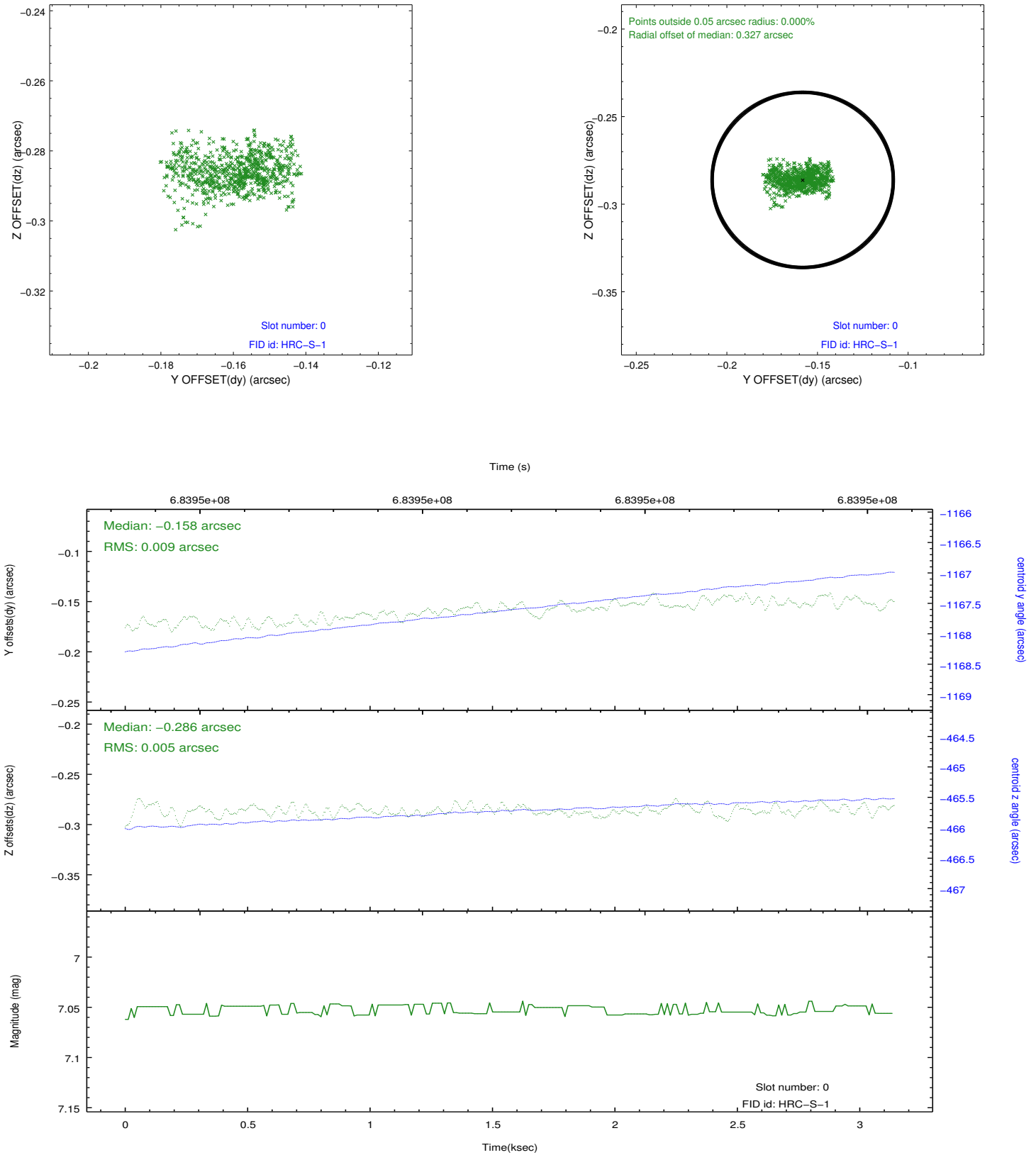


2.4.5 Slot 7

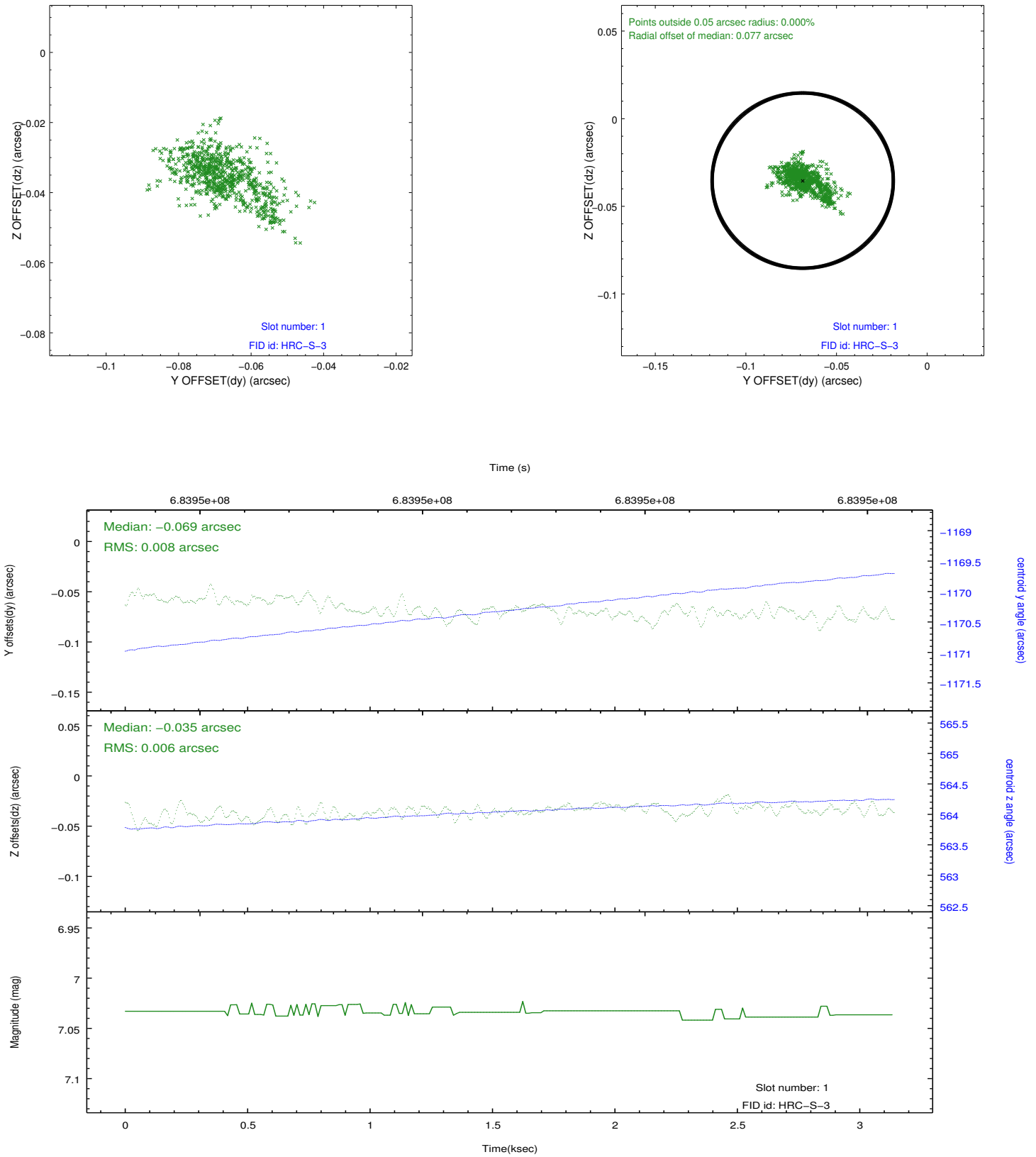


2.5 FID Slots

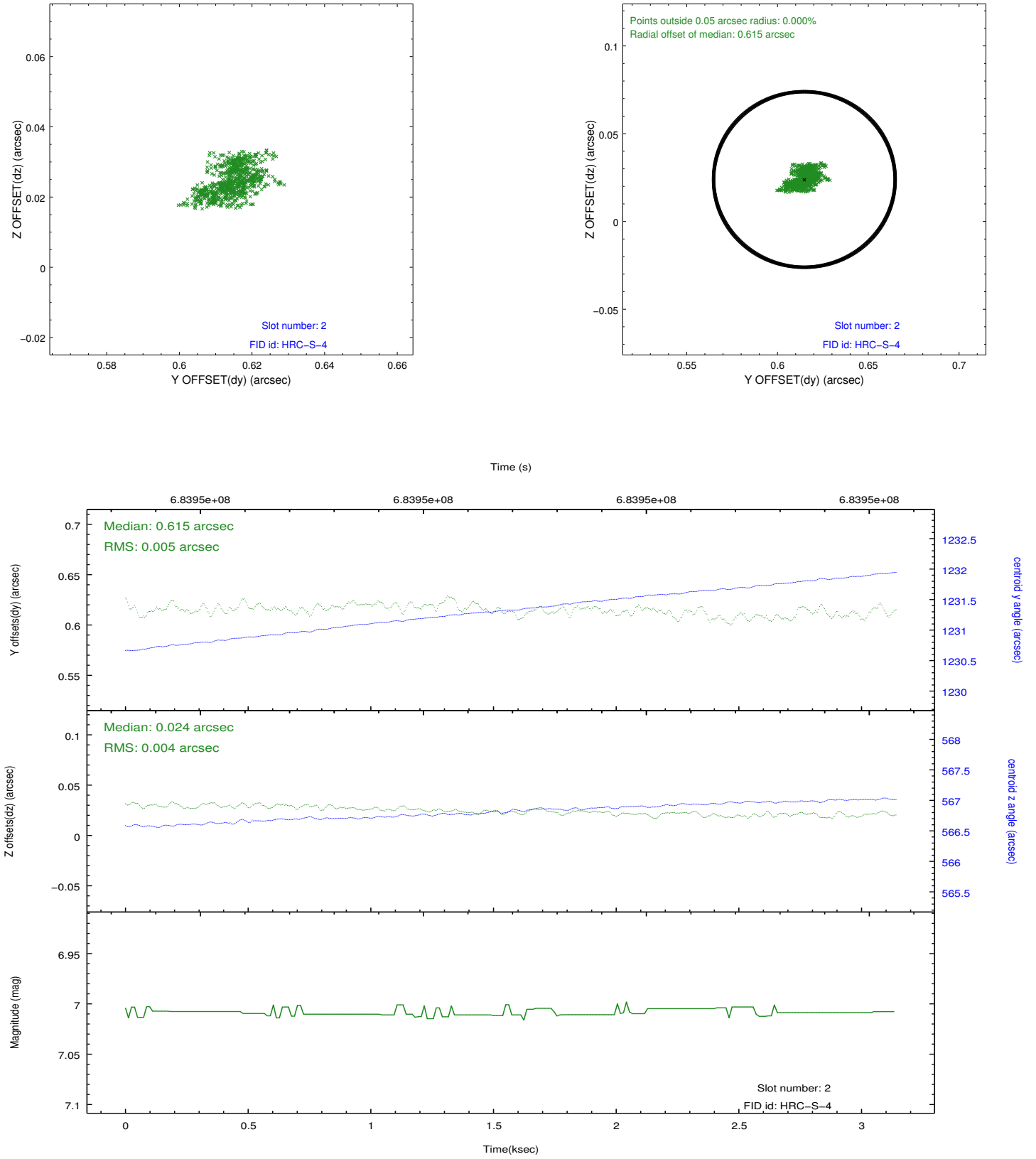
2.5.1 Slot 0



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	3.1303501883745

A.2 Comments

Window constraint met.