

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19803 - L2 Version 1
Chandra X-Ray Center

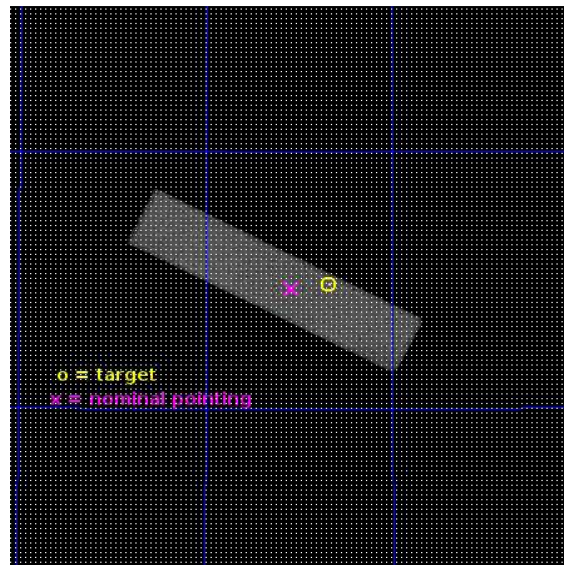
L2 Processing Date : Sep 15 2017

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

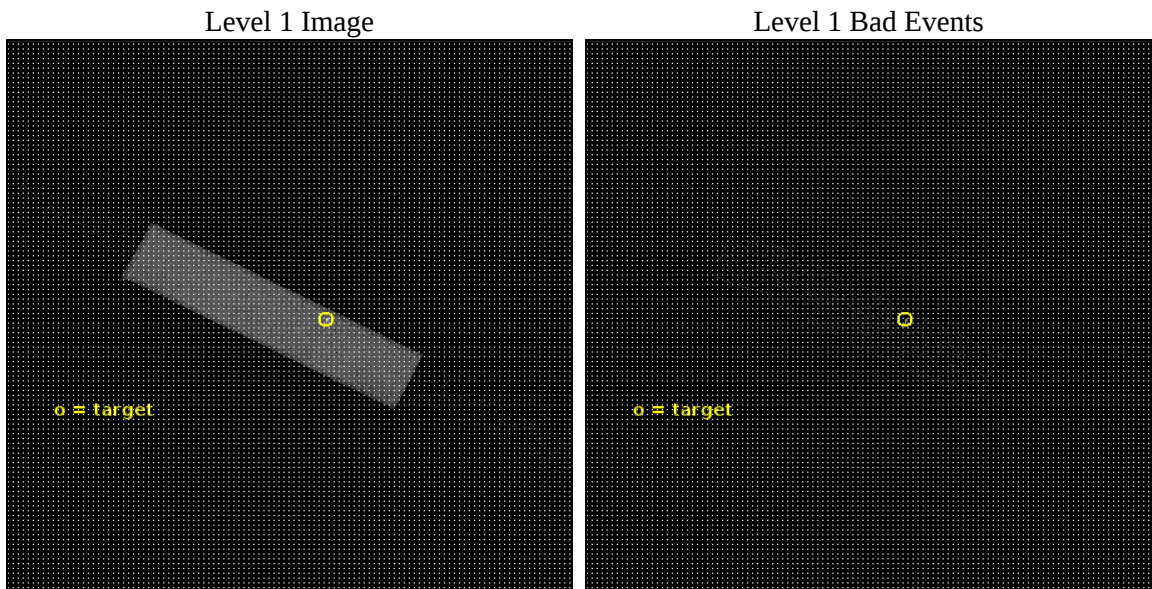
seq_num	291320	Sequence number
obs_id	19803	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.27017147062	Nominal RA [deg]
dec_nom	45.733489905112	Nominal Dec [deg]
roll_nom	206.8223568356	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1171.8313186169	[s]
livetime	1159.7511617208	Ontime multiplied by DTCOR
l2events	99070	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1171.8313186169	[s]
caldbver	4.7.6	 	l1events	142370	Number of level 1 events
date	2017-09-15T14:47:44	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

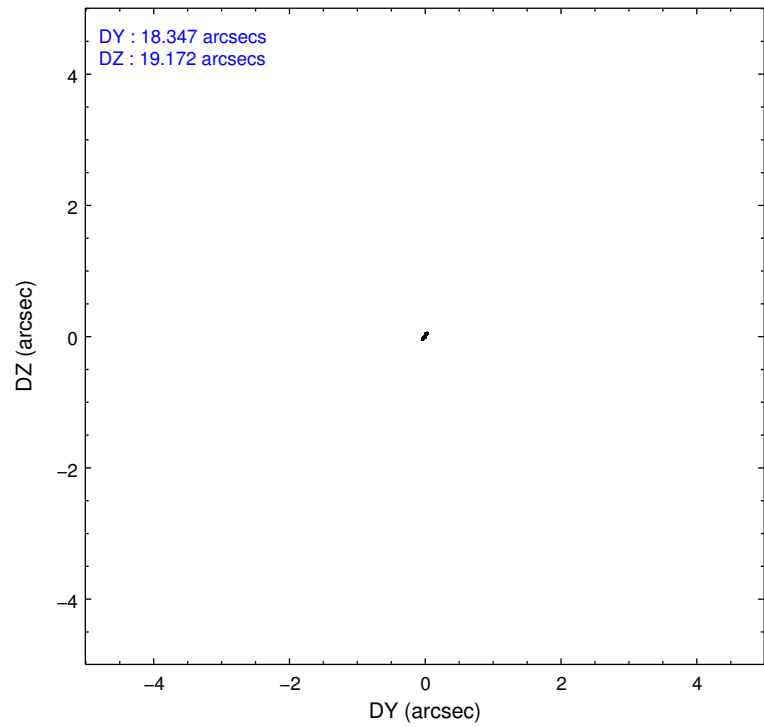
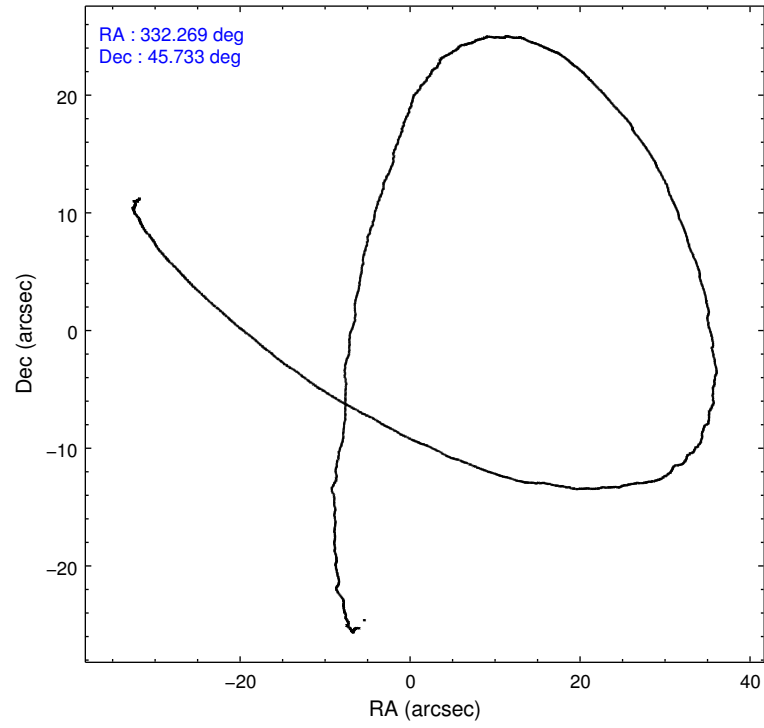
Level 1 Events

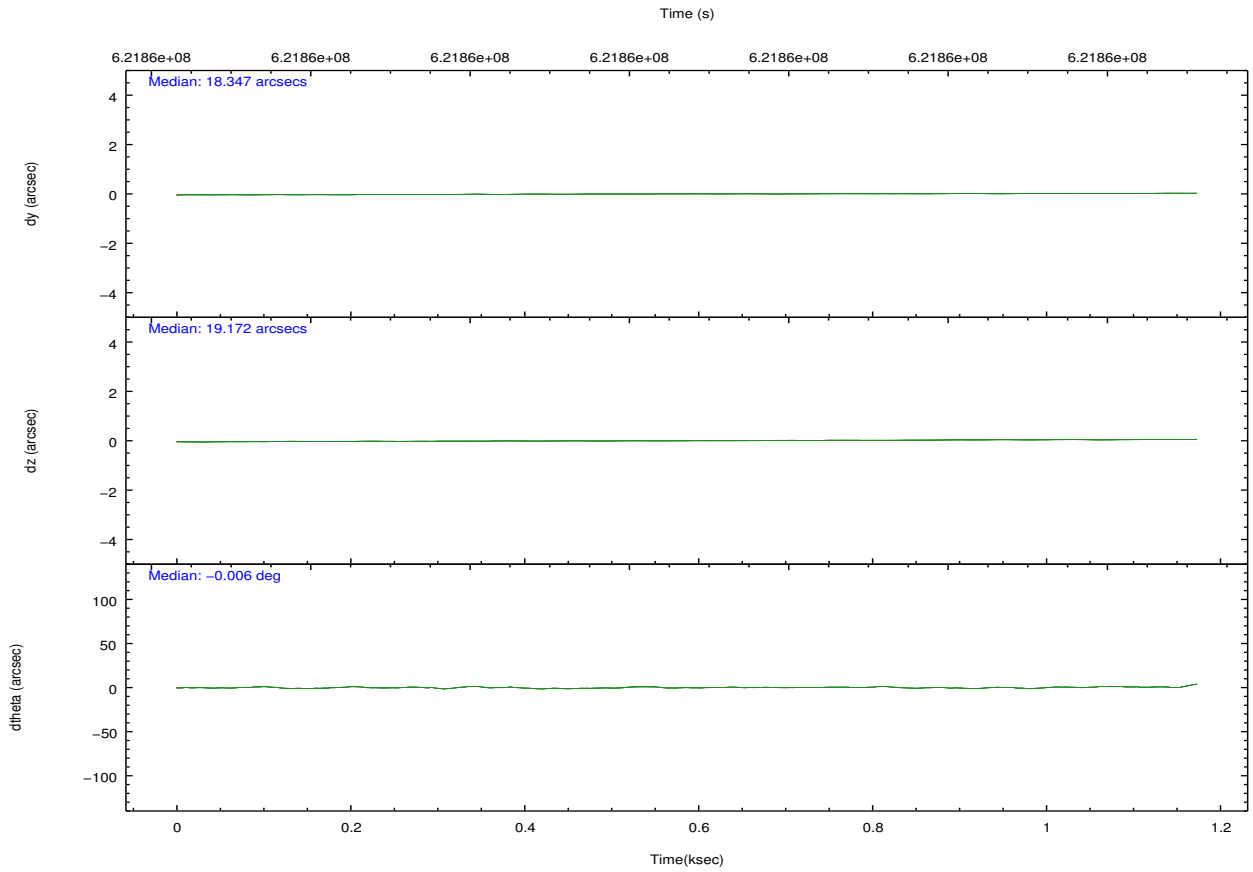
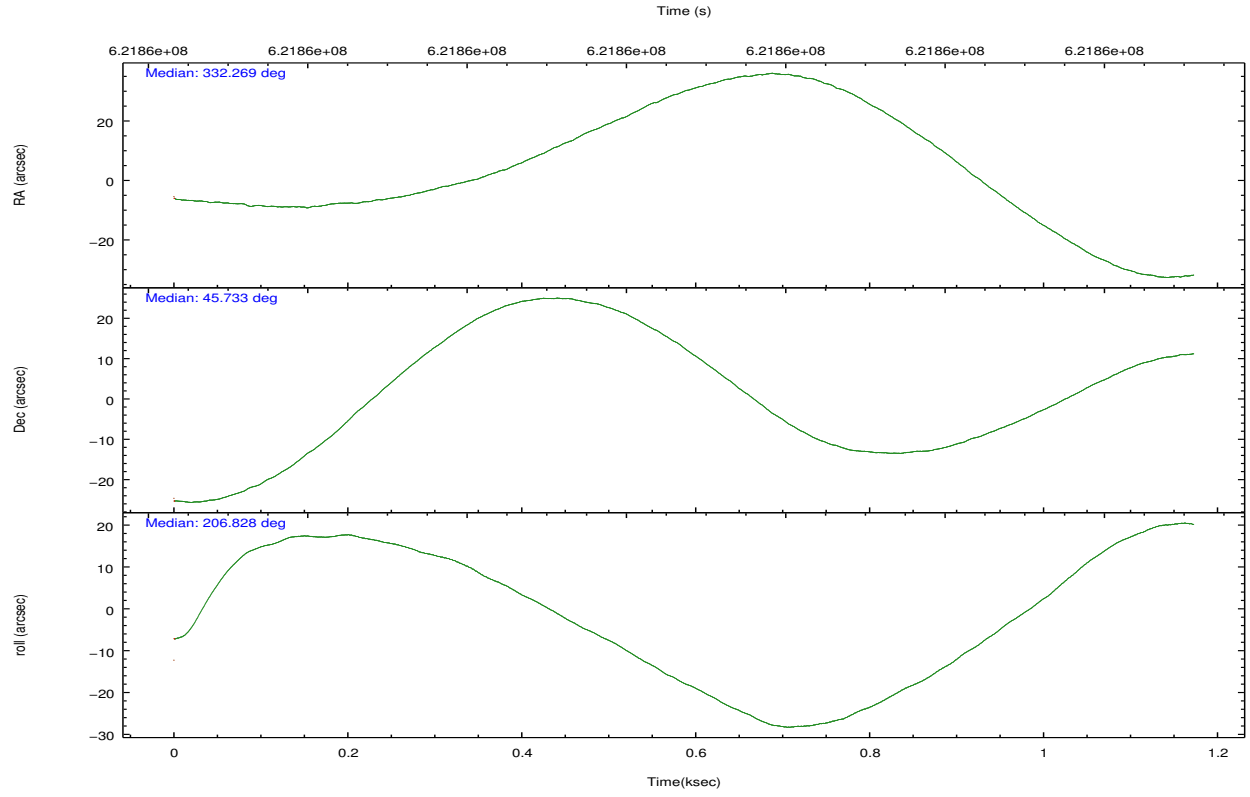
	segment 1	segment 2	segment 3
level 1 events	867	140630	873
rejected events	867	28951	873
rejected %	100%	20%	100%

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	332.291541	332.2701714706209			
[deg] Pointing Dec	45.758716	45.73348990511158			
[deg] Pointing Roll	206.739842	206.8223568355969			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	621855452.184000	621855077.0817			
Observation start date	2017-09-15T09:36:23	2017-09-15T09:31:17			
[s] Observation end time (MET)	621856452.184000	621856586.39428			
Observation end date	2017-09-15T09:53:03	2017-09-15T09:56:26			

2.3 Aspect



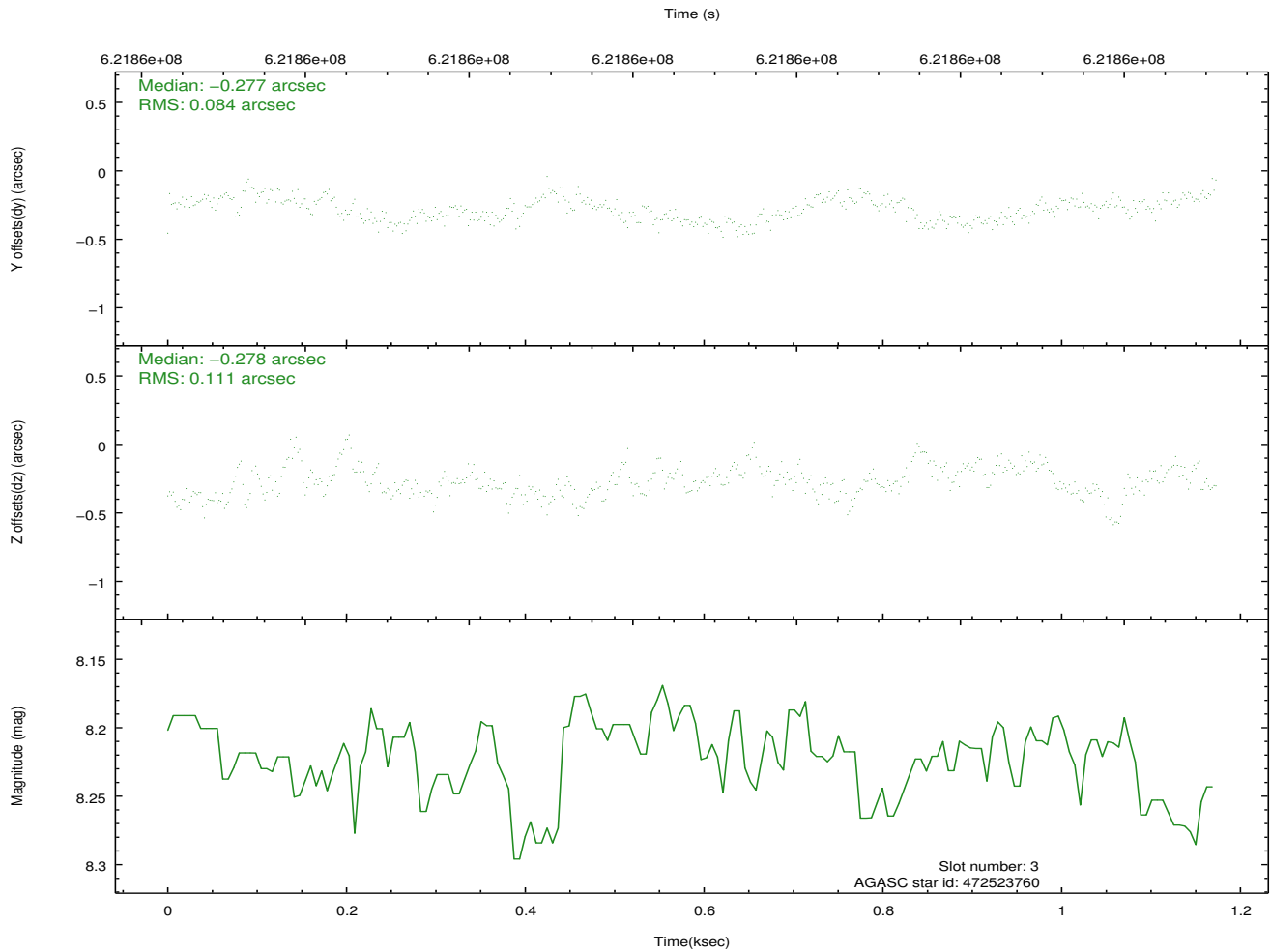
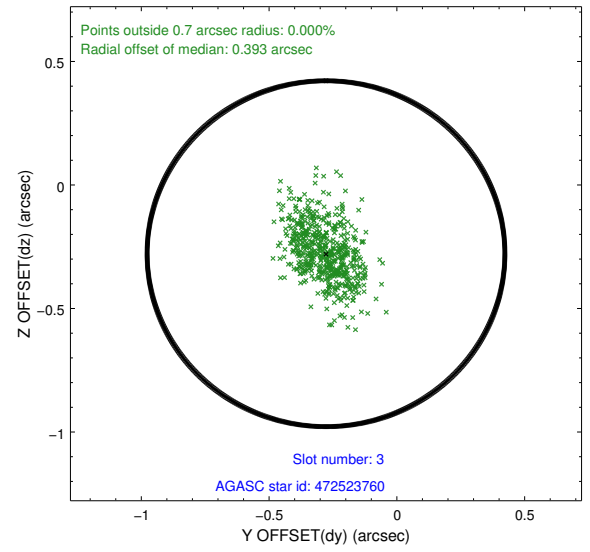
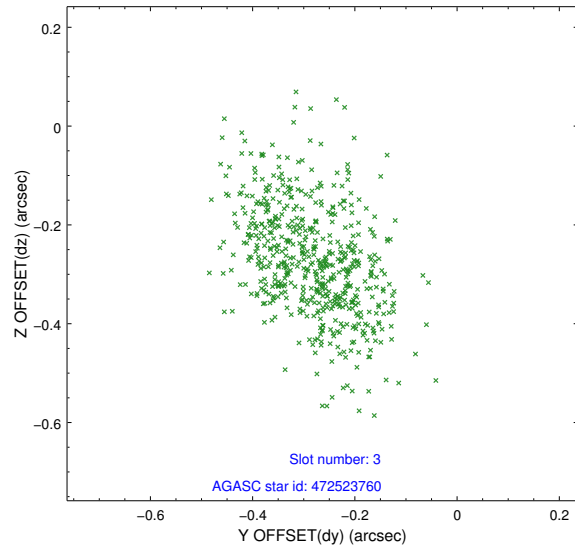


Slot Statistics

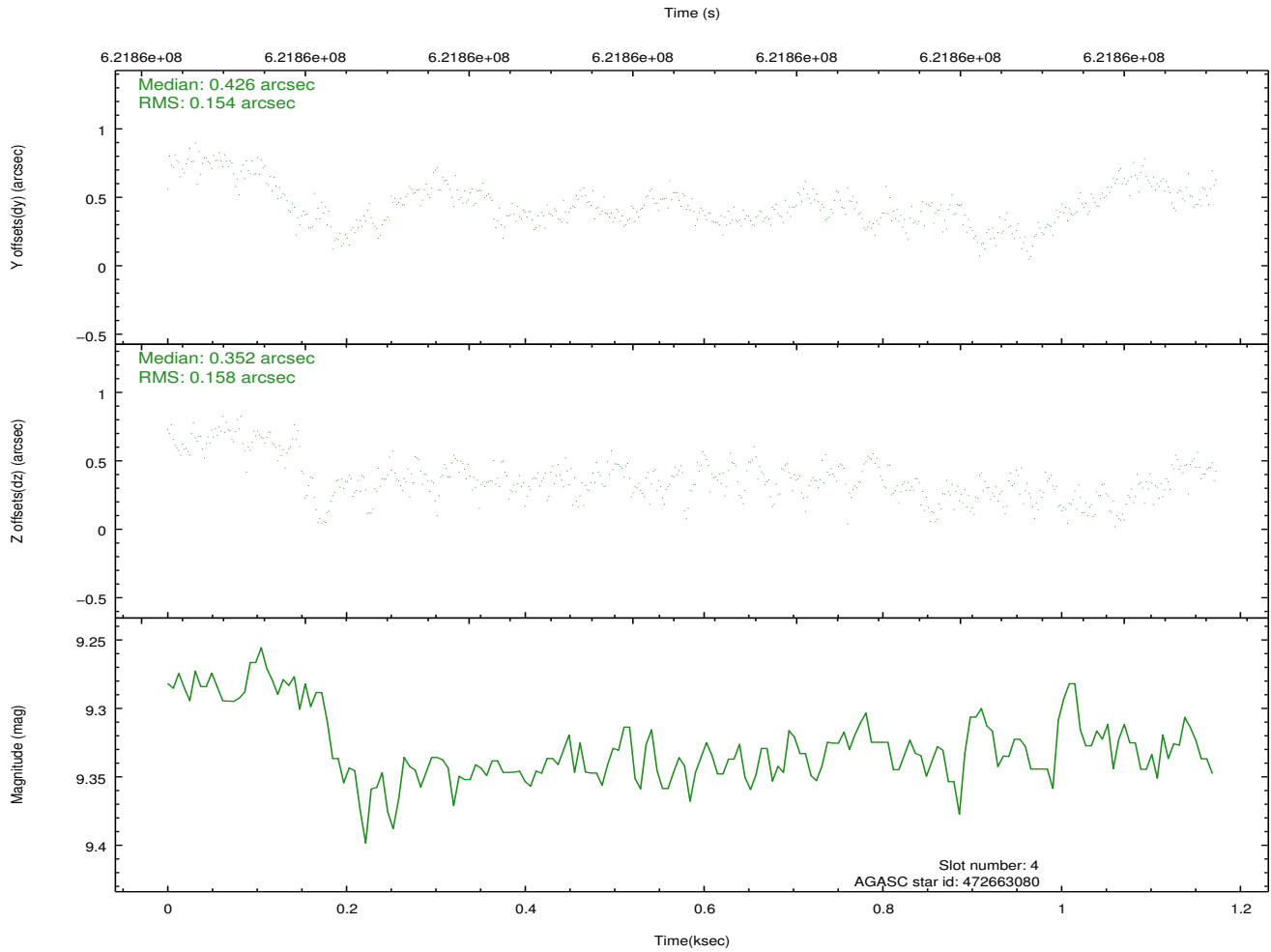
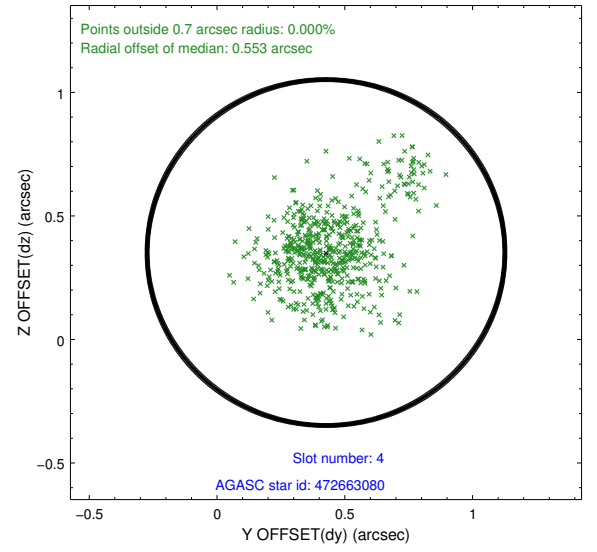
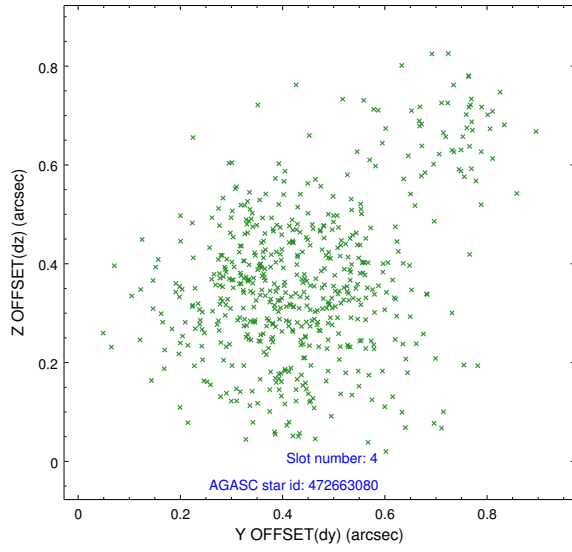
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	286	-0.054	-0.264	0.007	0.013	0.000000	0.000000	-1172.93	-468.31
1	FID		HRC-S-2	7.00	287	0.354	-0.118	0.005	0.008	0.000000	0.000000	1223.05	-462.34
2	FID		HRC-S-3	7.02	287	0.088	0.079	0.006	0.015	0.000000	0.000000	-1171.28	559.94
3	GUIDE	used	472523760	8.22	573	-0.277	-0.278	0.145	0.255	331.645363	45.403260	2030.29	401.26
4	GUIDE	used	472663080	9.33	573	0.426	0.352	0.213	0.426	332.652741	46.473840	-1956.33	-1897.19
5	GUIDE	used	420754040	9.02	573	-0.574	-0.432	0.193	0.442	331.917939	44.882543	2262.42	2382.25
6	GUIDE	used	472655152	9.39	572	0.103	0.154	0.239	0.374	332.504239	45.862991	-642.52	-91.71
7	GUIDE	used	472665256	8.97	571	0.352	0.205	0.189	0.310	332.808125	46.195041	-1860.14	-827.56

2.4 Star Slots

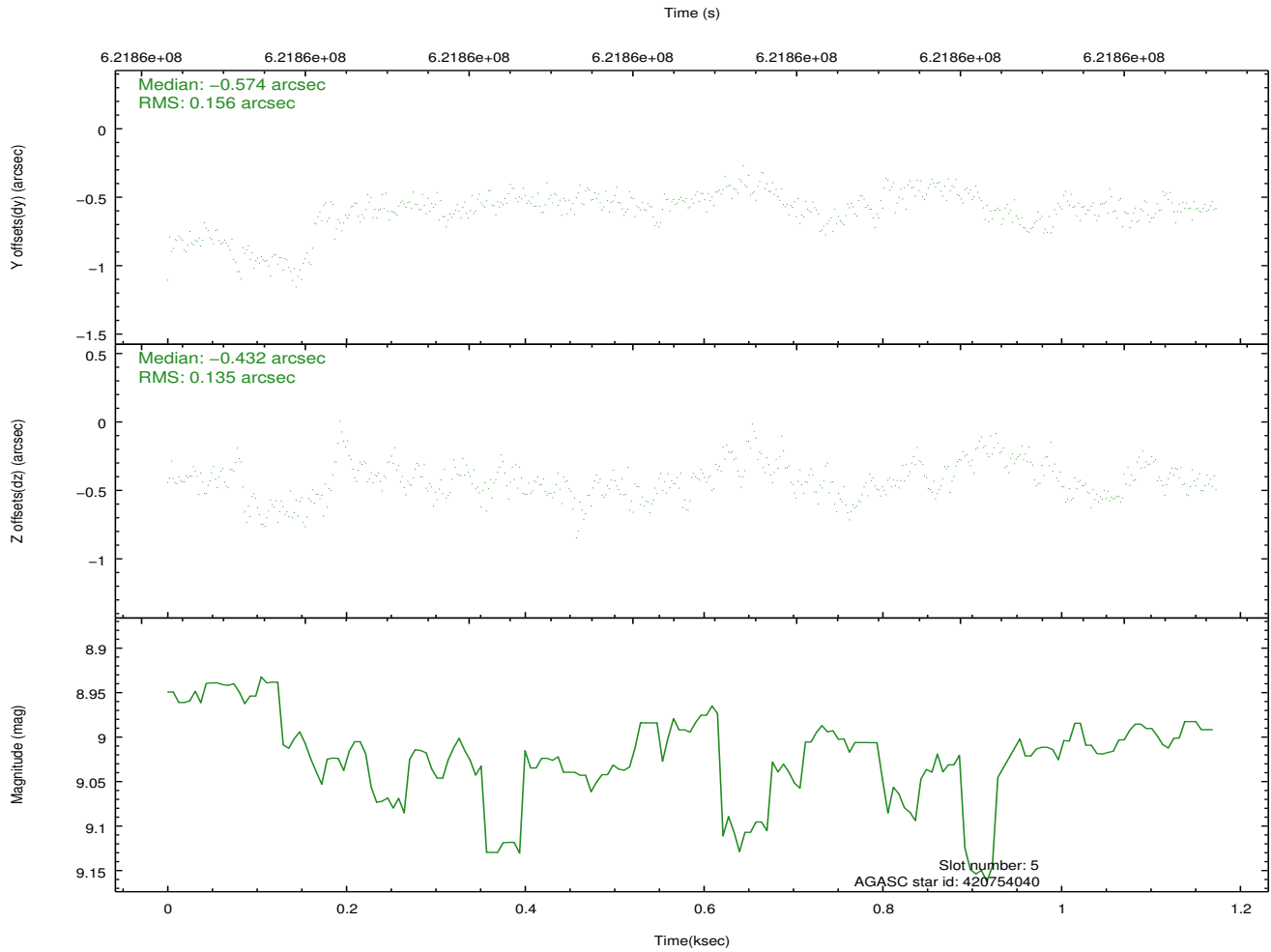
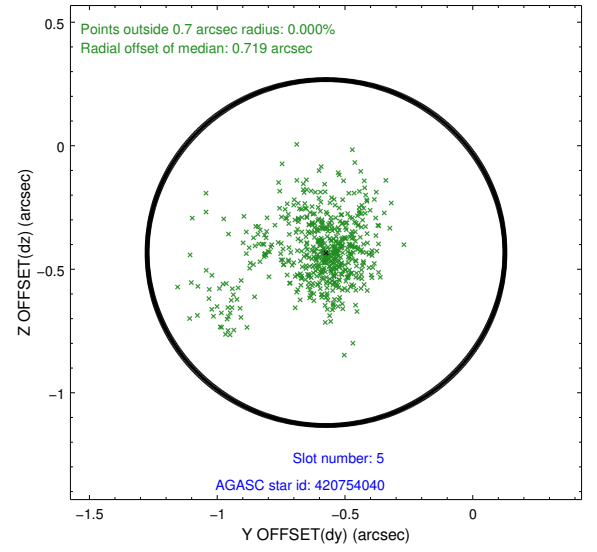
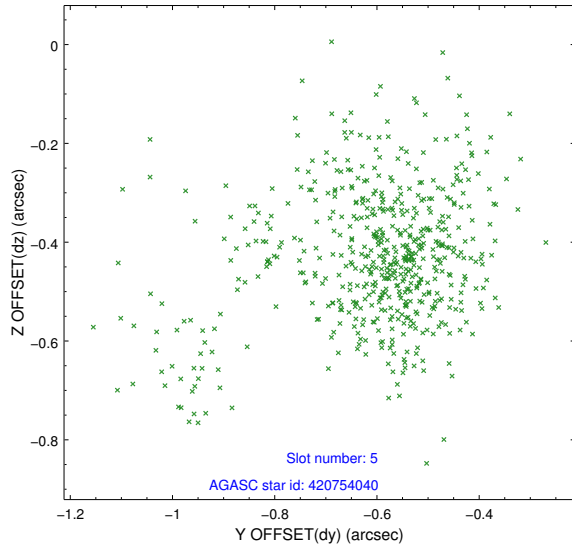
2.4.1 Slot 3



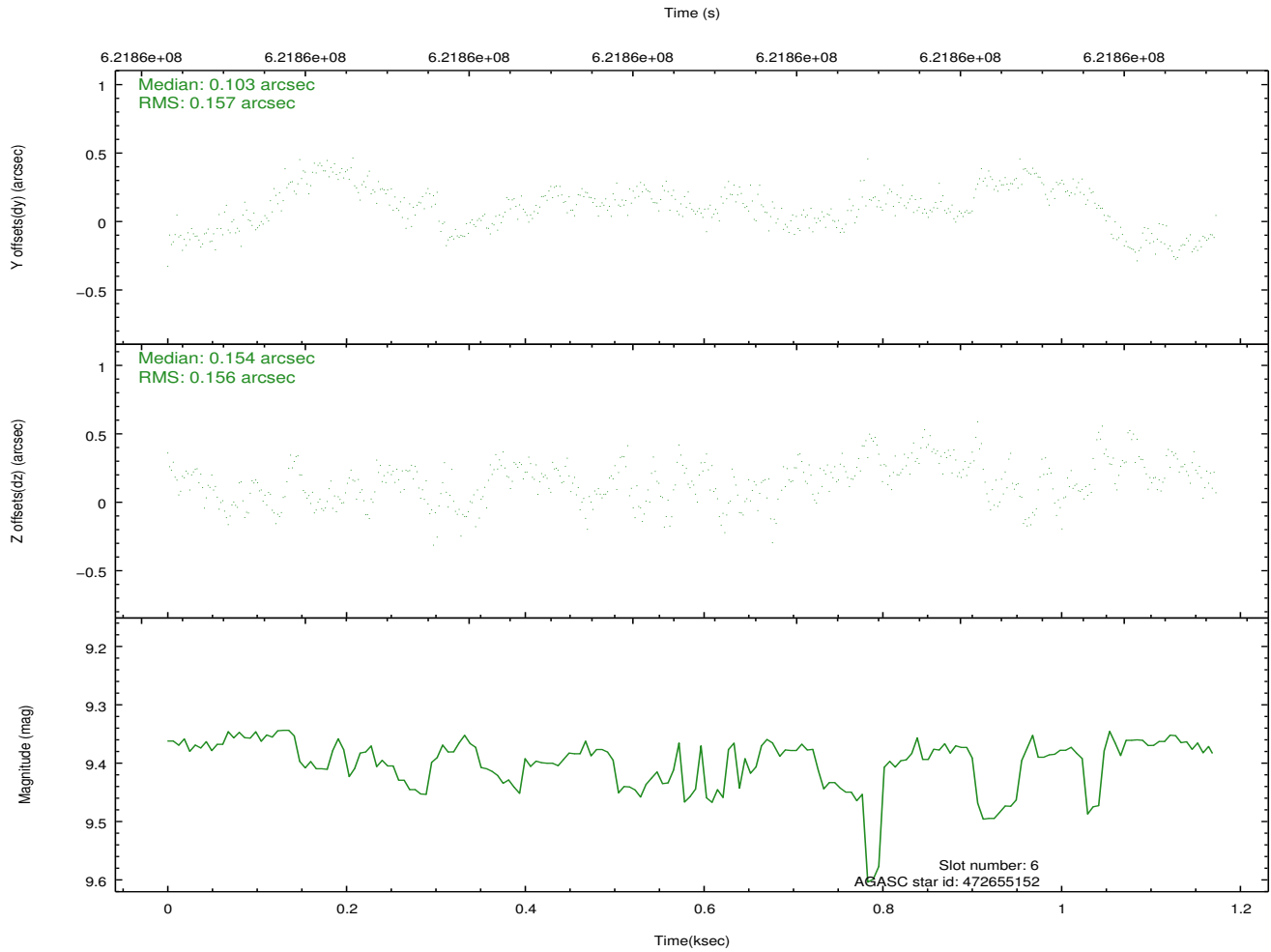
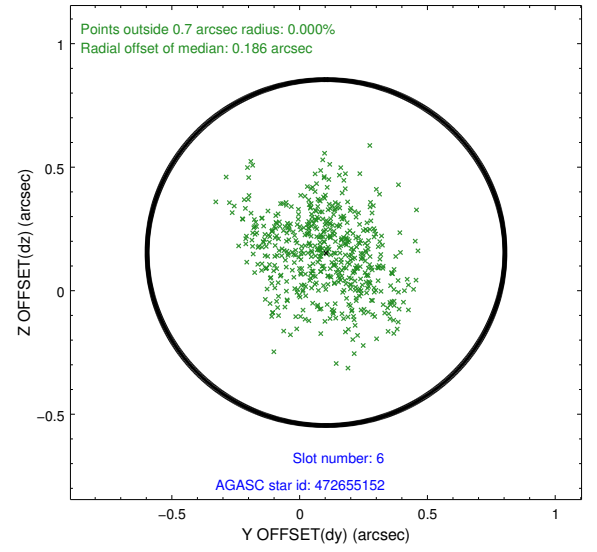
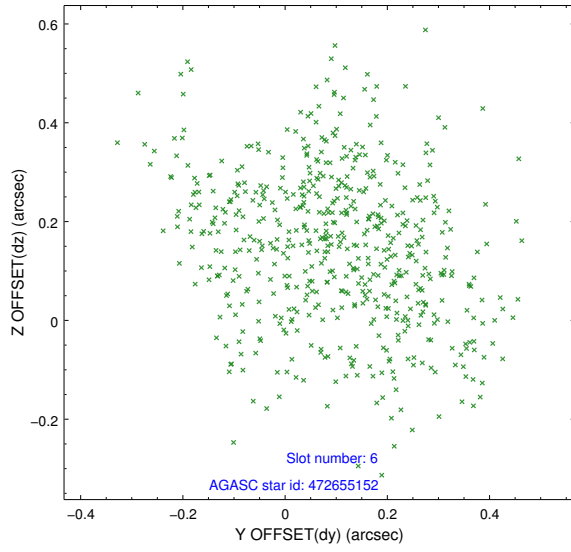
2.4.2 Slot 4



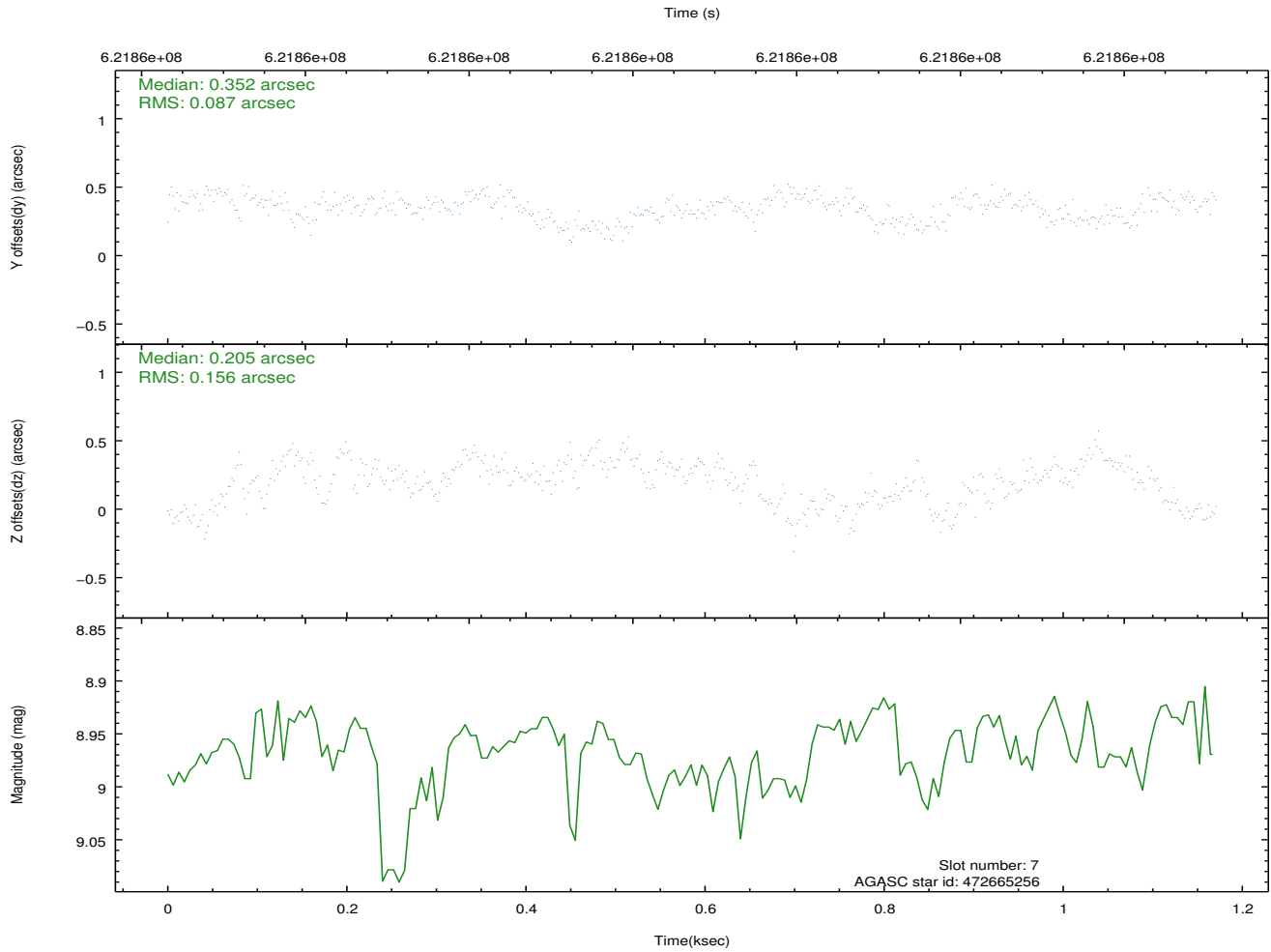
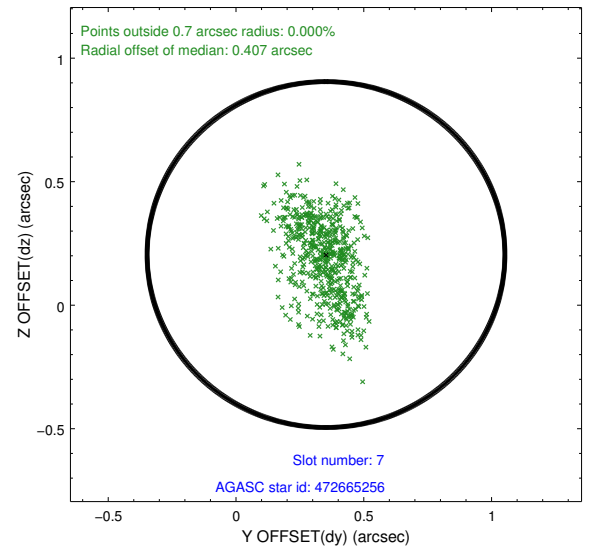
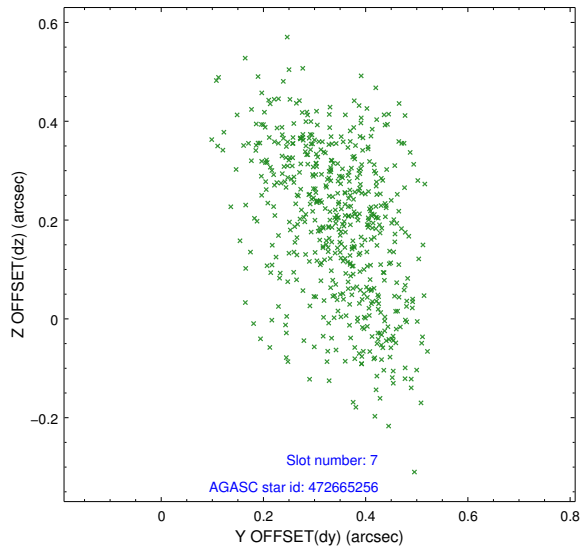
2.4.3 Slot 5



2.4.4 Slot 6

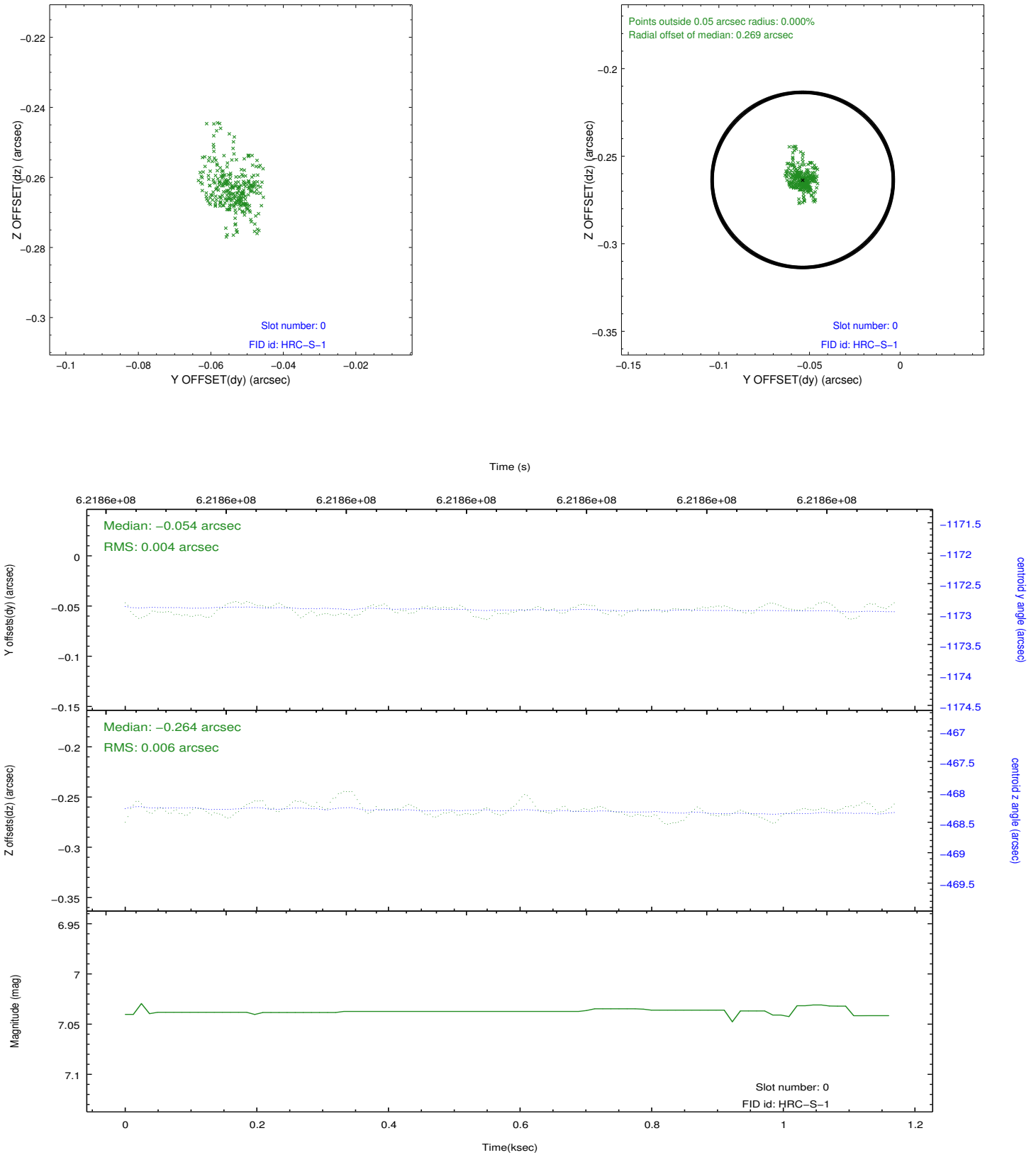


2.4.5 Slot 7

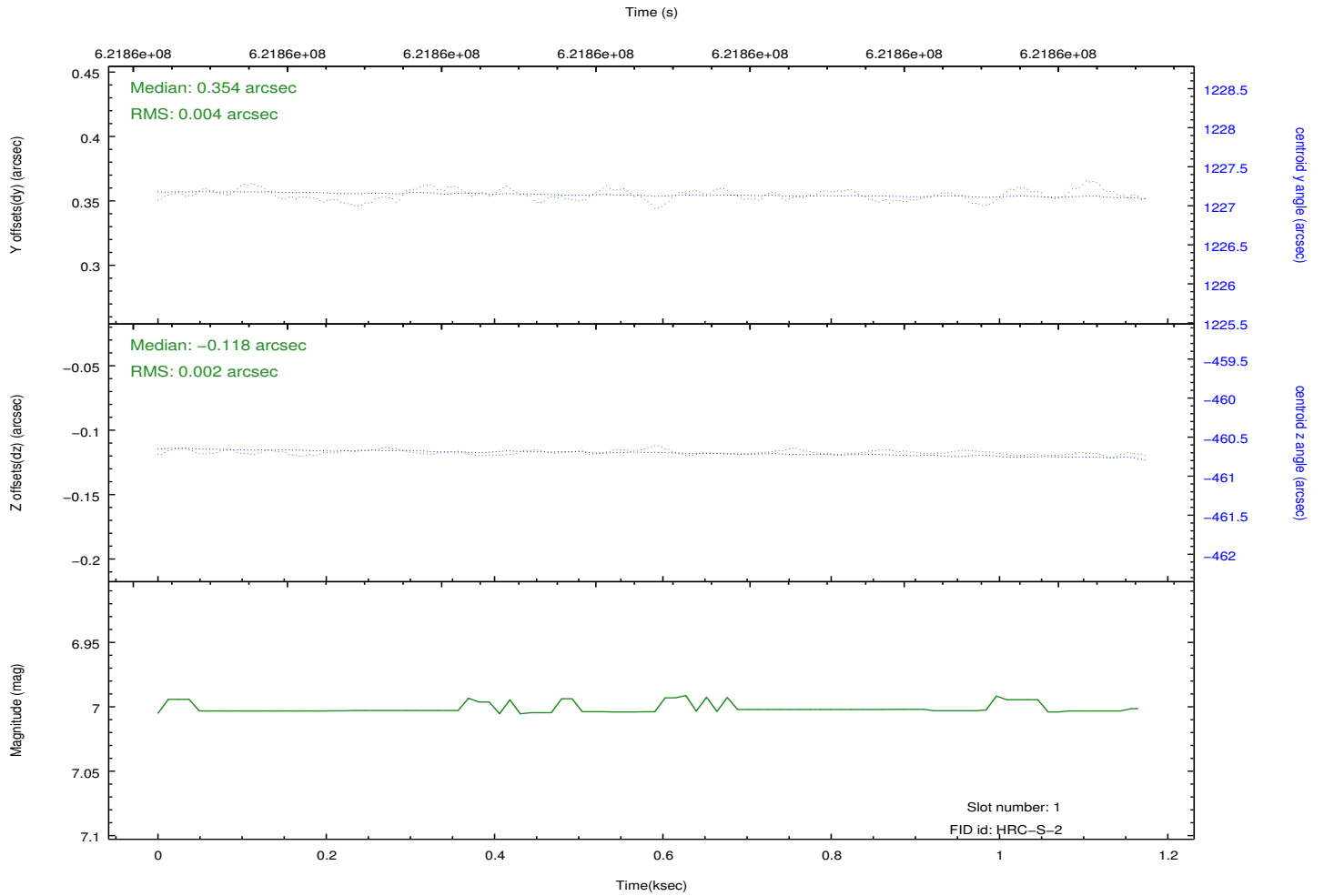
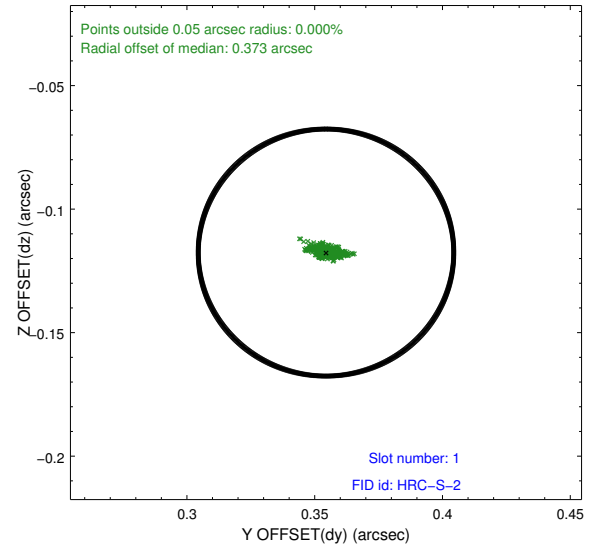
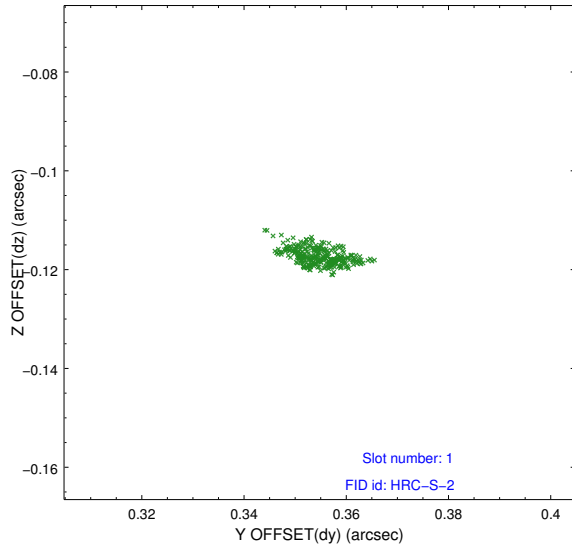


2.5 FID Slots

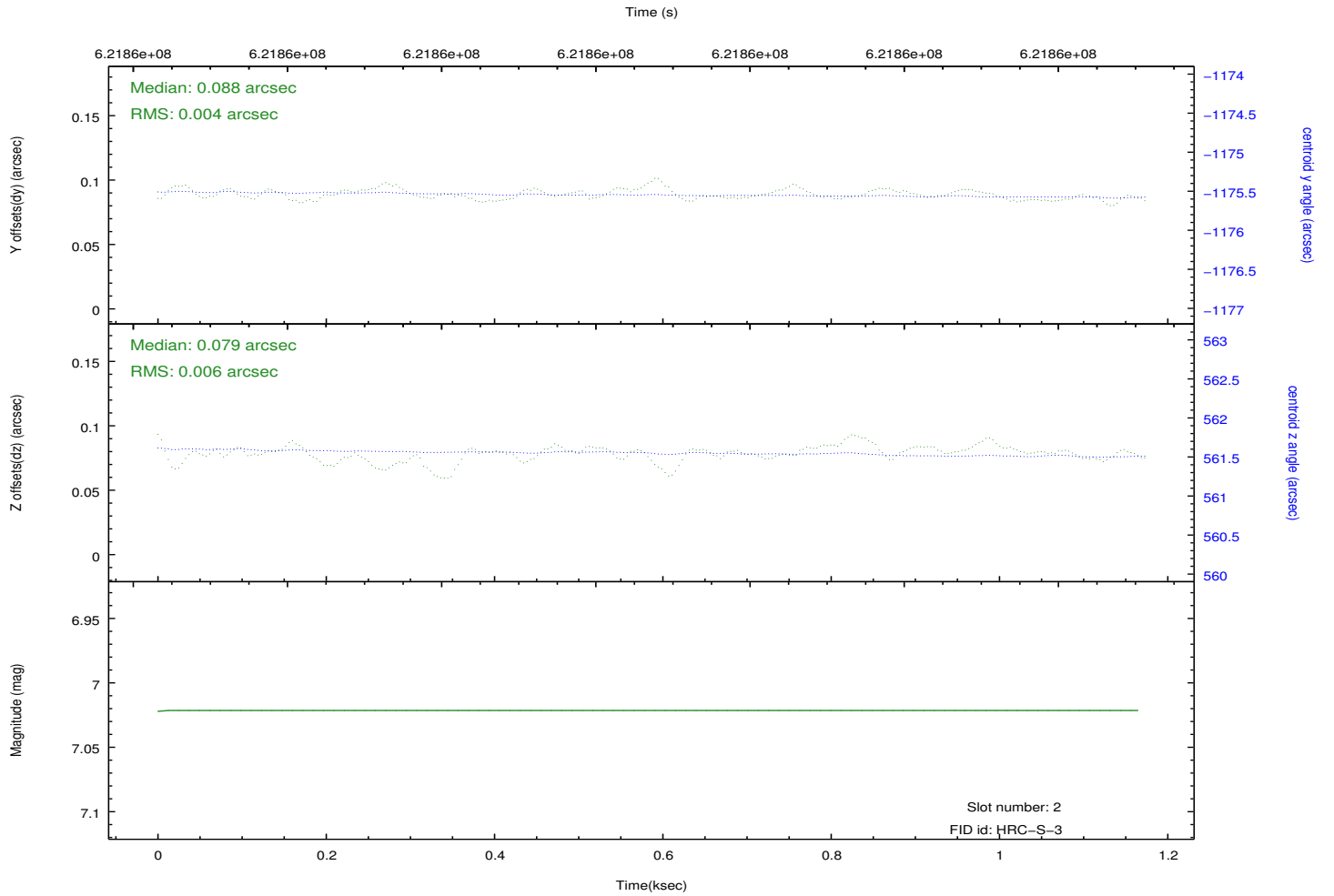
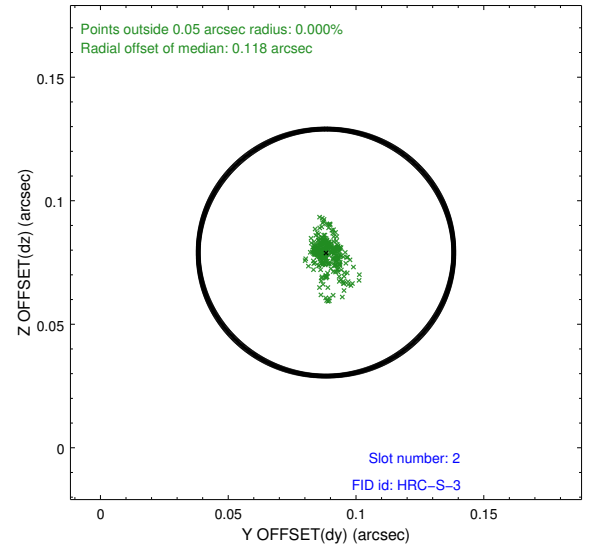
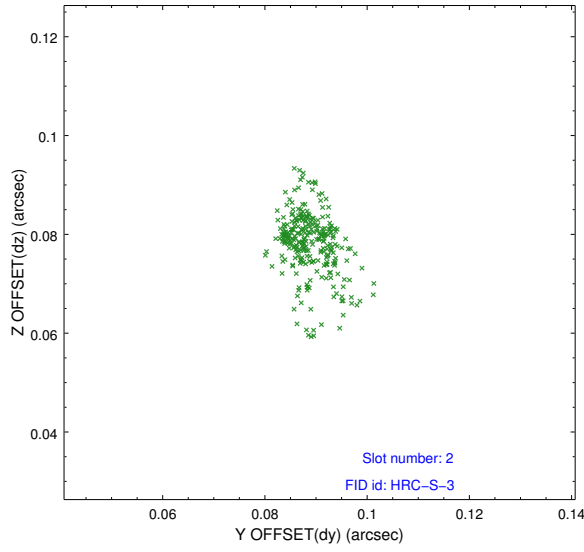
2.5.1 Slot 0



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)	2017.09.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1718313186169

A.2 Comments