

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19796 - L2 Version 1
Chandra X-Ray Center

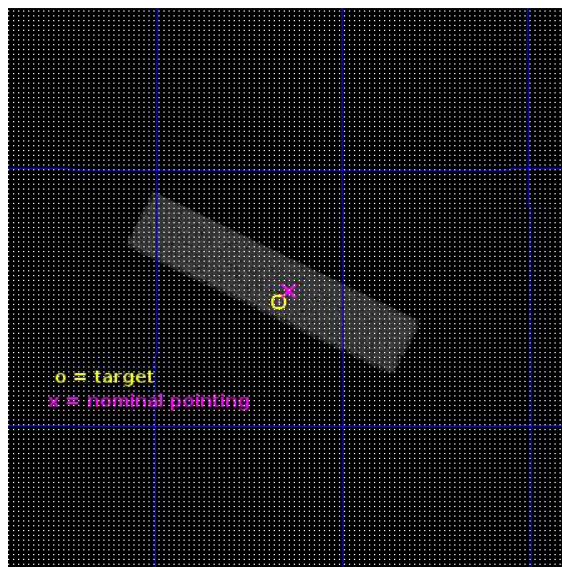
L2 Processing Date : Sep 15 2017

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

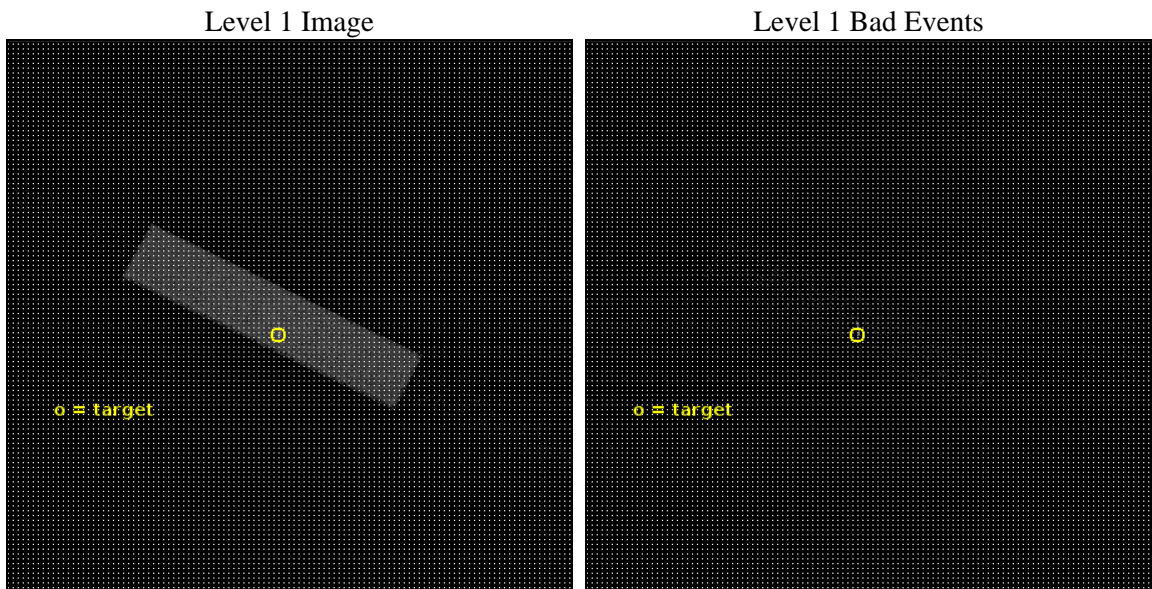
seq_num	291313	Sequence number
obs_id	19796	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14182065232	Nominal RA [deg]
dec_nom	45.764391439227	Nominal Dec [deg]
roll_nom	206.81208915531	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1177.7250689268	[s]
livetime	1167.9153174748	Ontime multiplied by DTCOR
l2events	77771	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	1177.7250689268	[s]
caldsver	4.7.6	 	l1events	115879	Number of level 1 events
date	2017-09-15T14:42:48	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

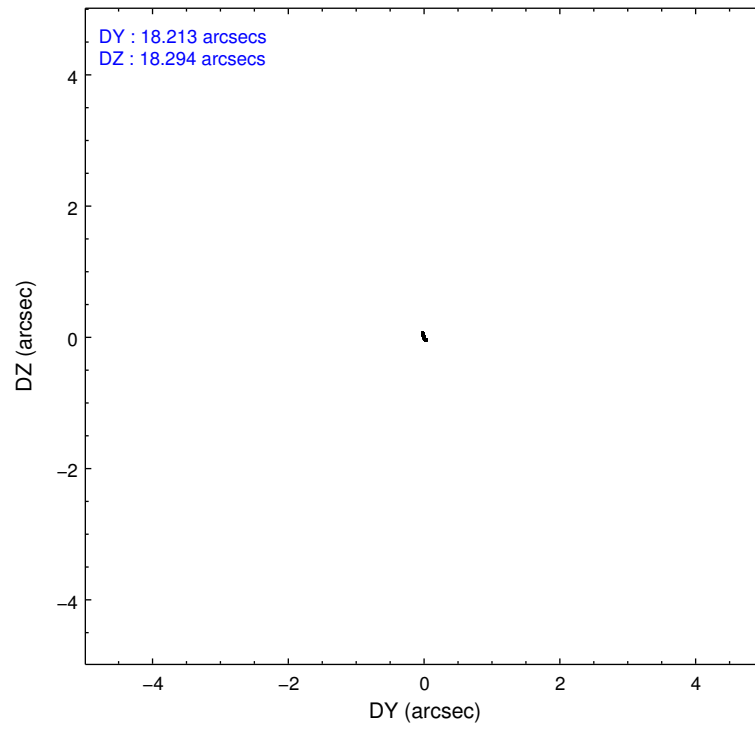
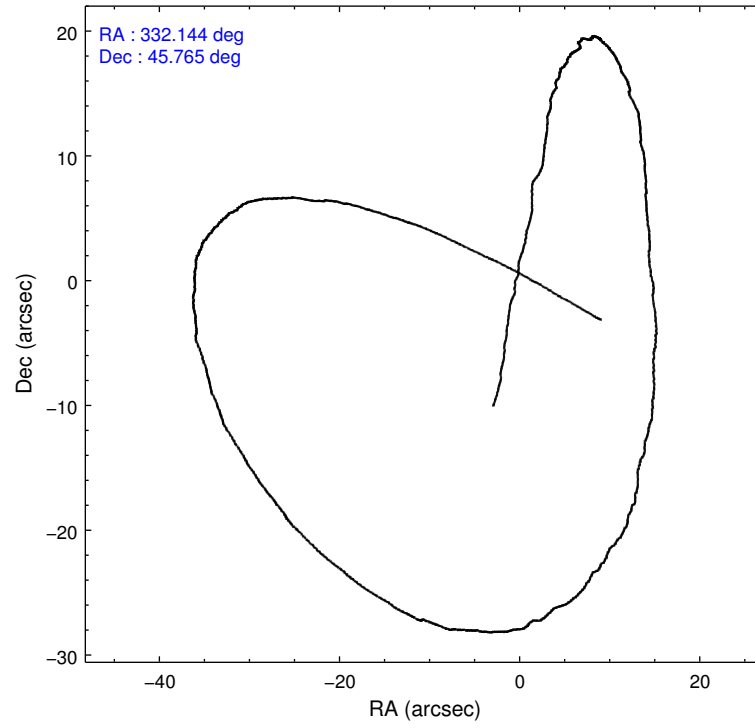
	segment 1	segment 2	segment 3
level 1 events	1003	113928	948
rejected events	1003	23965	948
rejected %	100%	21%	100%

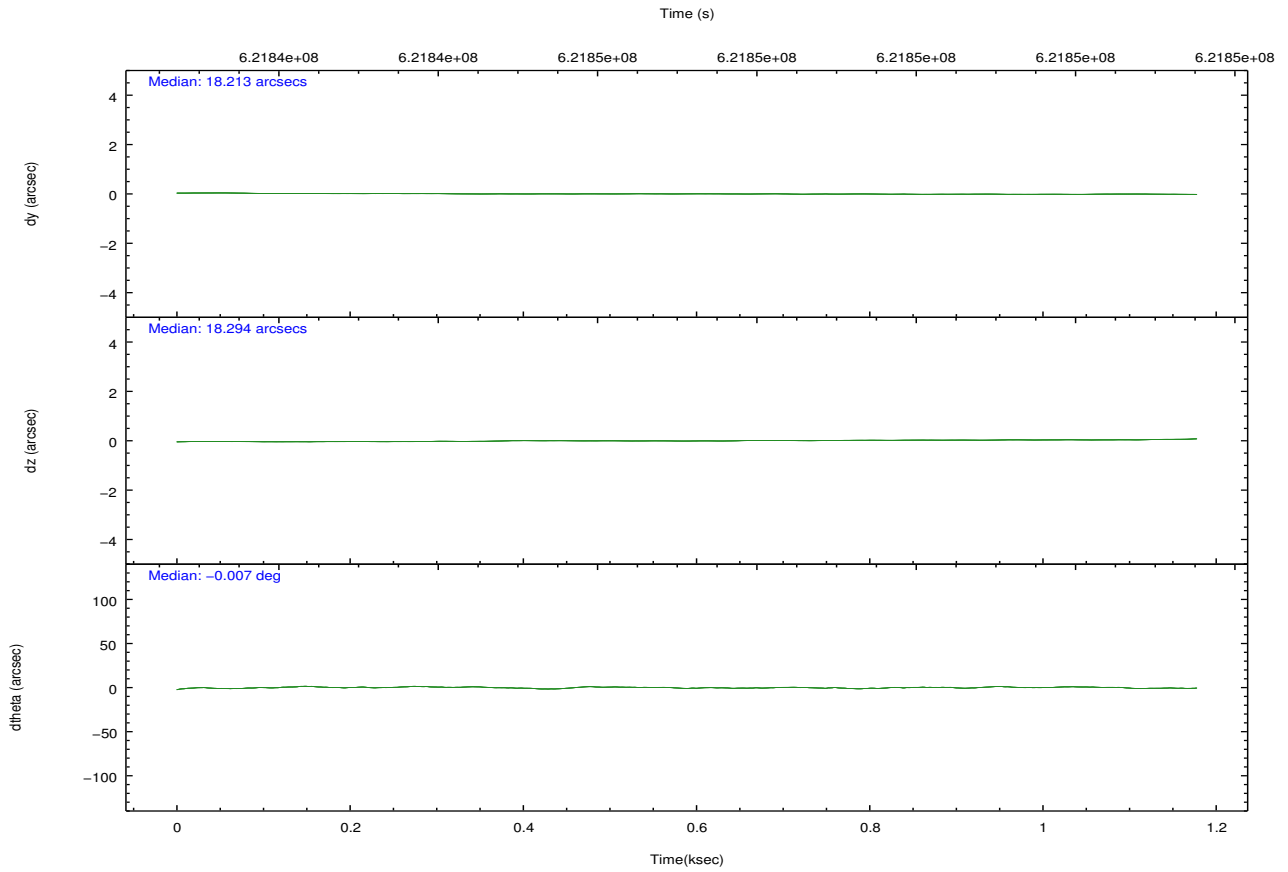
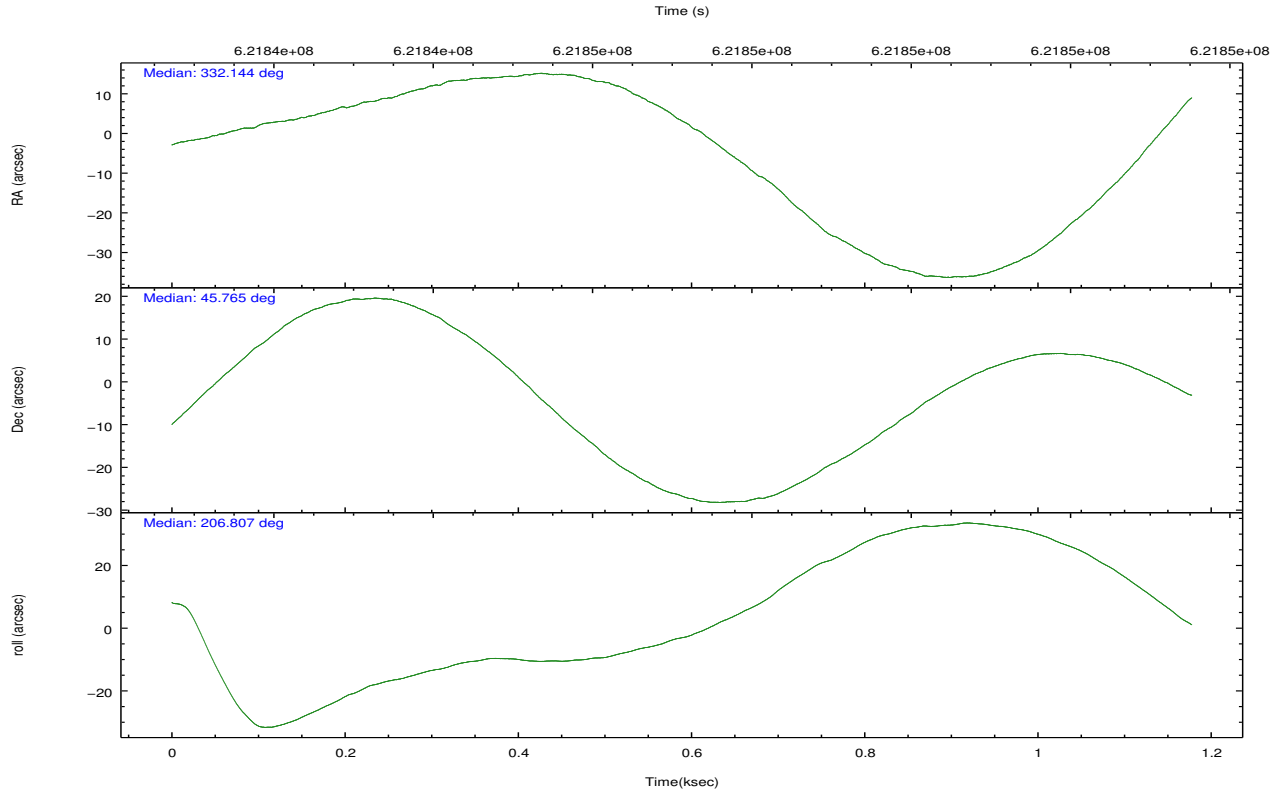
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.163349	332.1418206523181
[deg] Pointing Dec	45.788269	45.76439143922678
[deg] Pointing Roll	206.729291	206.8120891553119
[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)	621844882.184000	621844506.25608
Observation start date	2017-09-15T06:40:13	2017-09-15T06:35:06
[s] Observation end time (MET)	621845882.184000	621846016.08117
Observation end date	2017-09-15T06:56:53	2017-09-15T07:00:16

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

2.3 Aspect



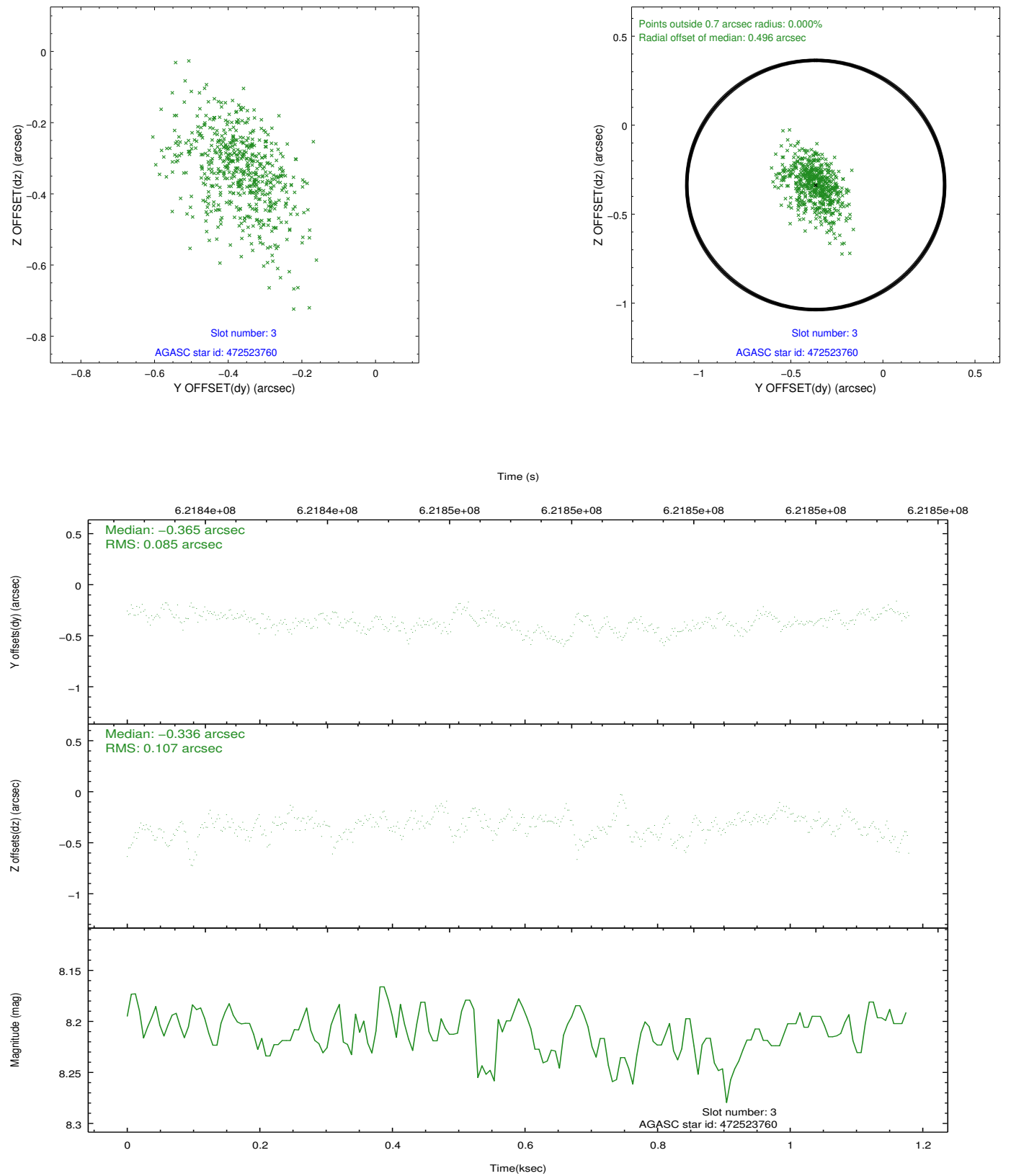


Slot Statistics

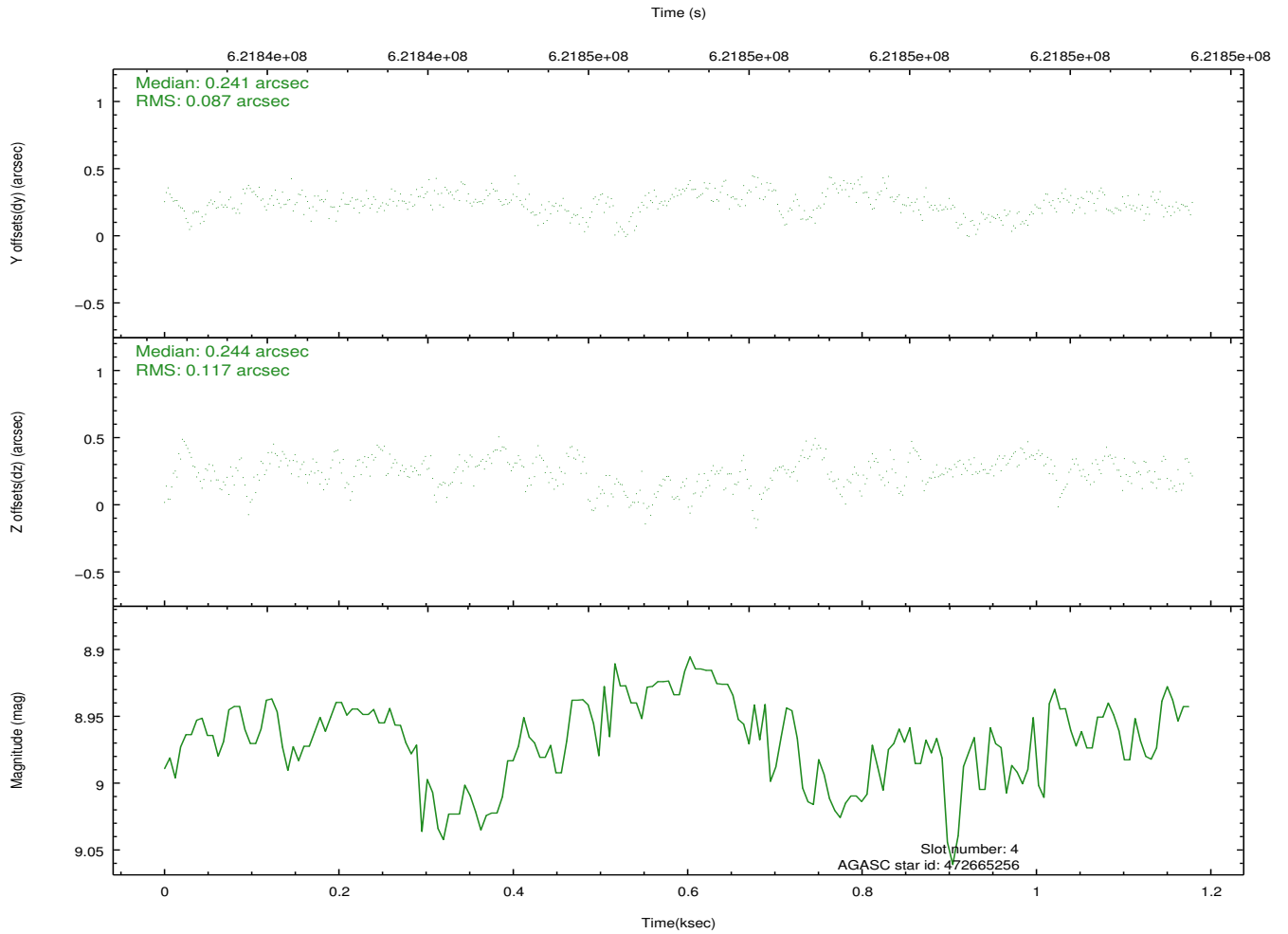
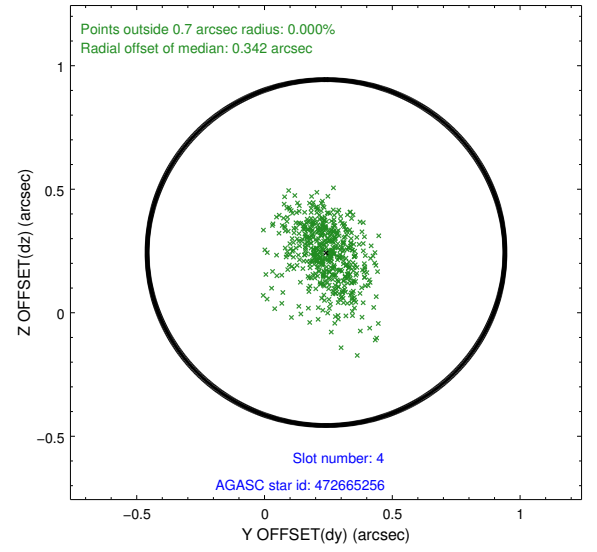
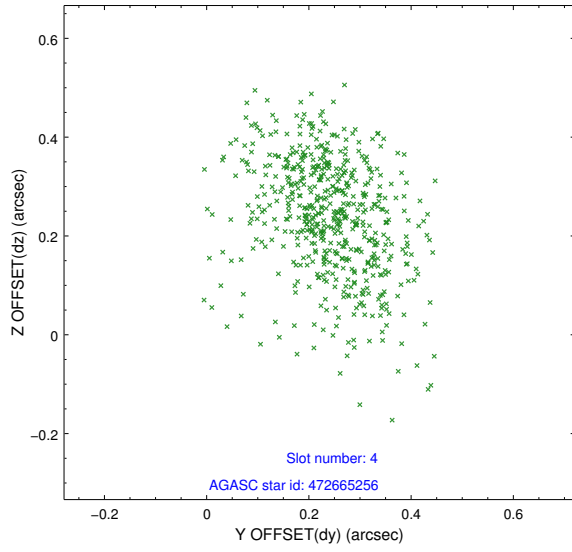
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	288	-0.060	-0.234	0.012	0.024	0.000000	0.000000	-1172.79	-467.39
1	FID		HRC-S-2	6.99	288	0.354	-0.115	0.007	0.011	0.000000	0.000000	1223.20	-461.40
2	FID		HRC-S-3	7.01	288	0.094	0.048	0.012	0.028	0.000000	0.000000	-1171.17	560.81
3	GUIDE	used	472523760	8.21	576	-0.365	-0.336	0.143	0.248	331.645363	45.403260	1791.53	649.36
4	GUIDE	used	472665256	8.97	576	0.241	0.244	0.152	0.261	332.808125	46.195041	-2092.35	-585.54
5	GUIDE	used	472535576	7.84	576	-0.129	0.212	0.132	0.231	331.438373	46.291802	789.02	-2433.96
6	GUIDE	used	472533912	9.12	576	0.283	0.174	0.179	0.302	331.791136	46.368695	-112.30	-2283.82
7	GUIDE	used	472655152	9.39	575	-0.020	-0.277	0.206	0.354	332.504239	45.862991	-884.49	142.69

2.4 Star Slots

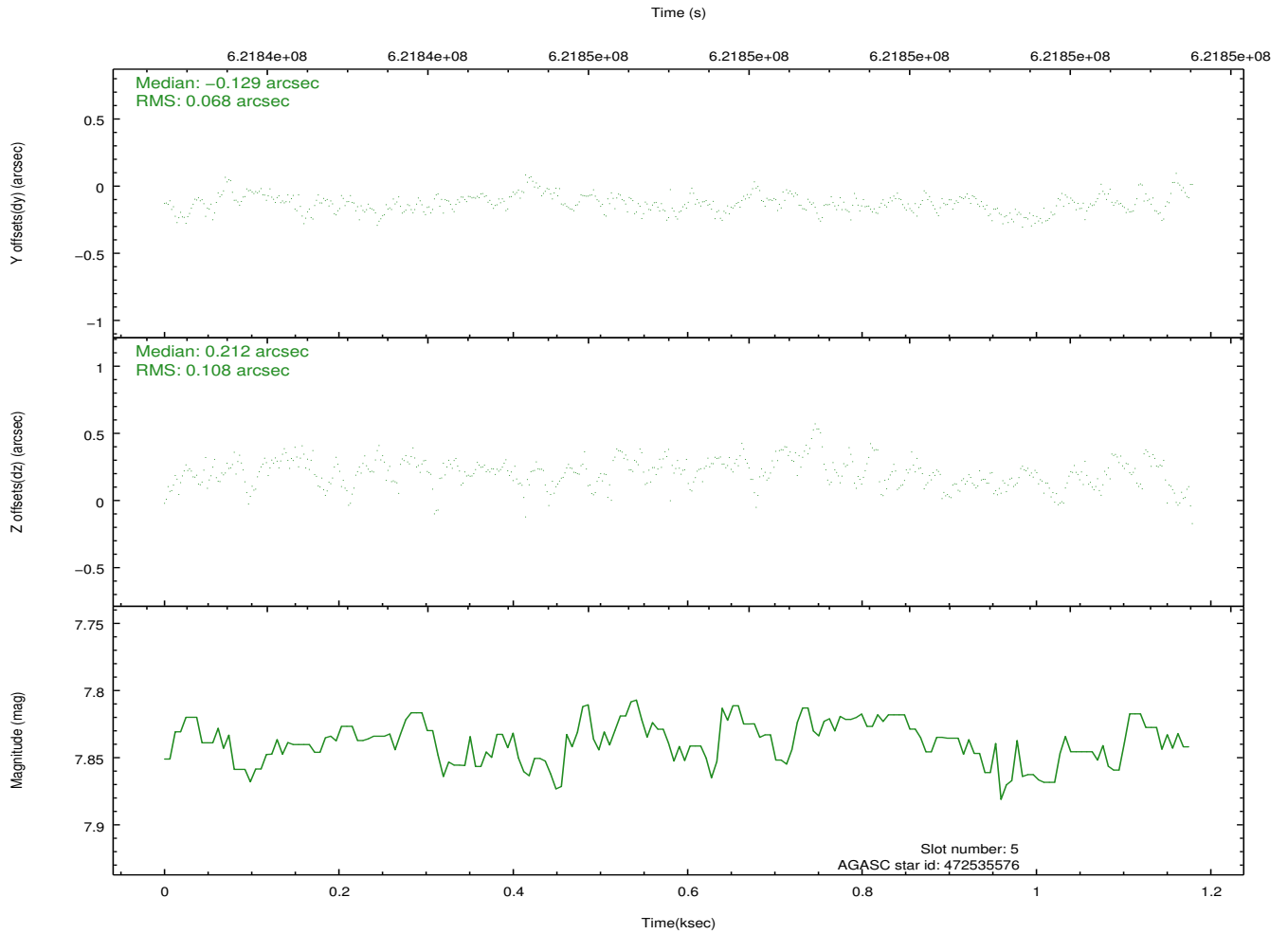
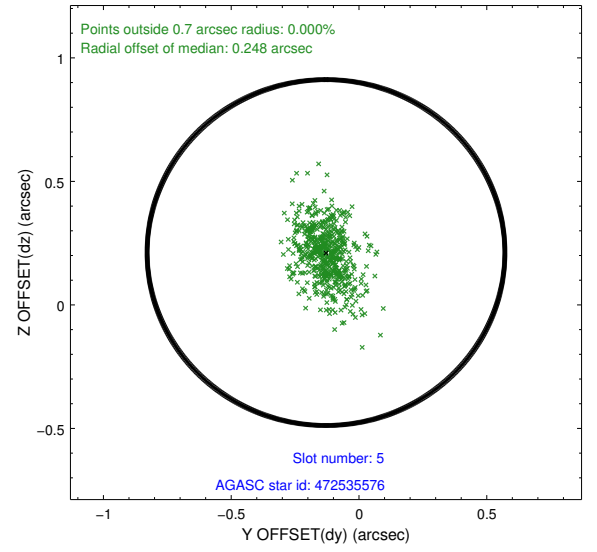
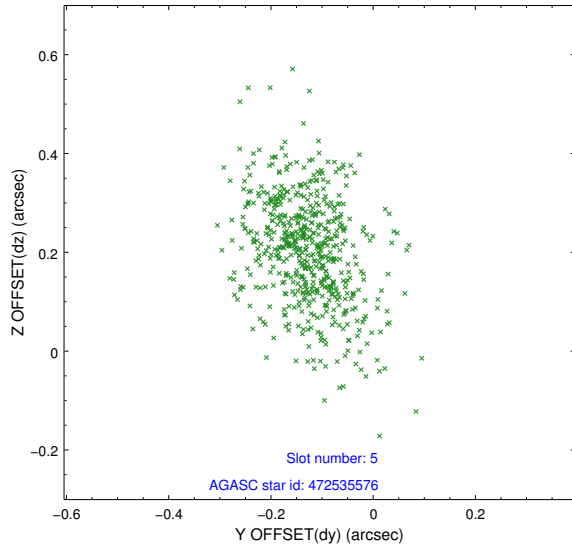
2.4.1 Slot 3



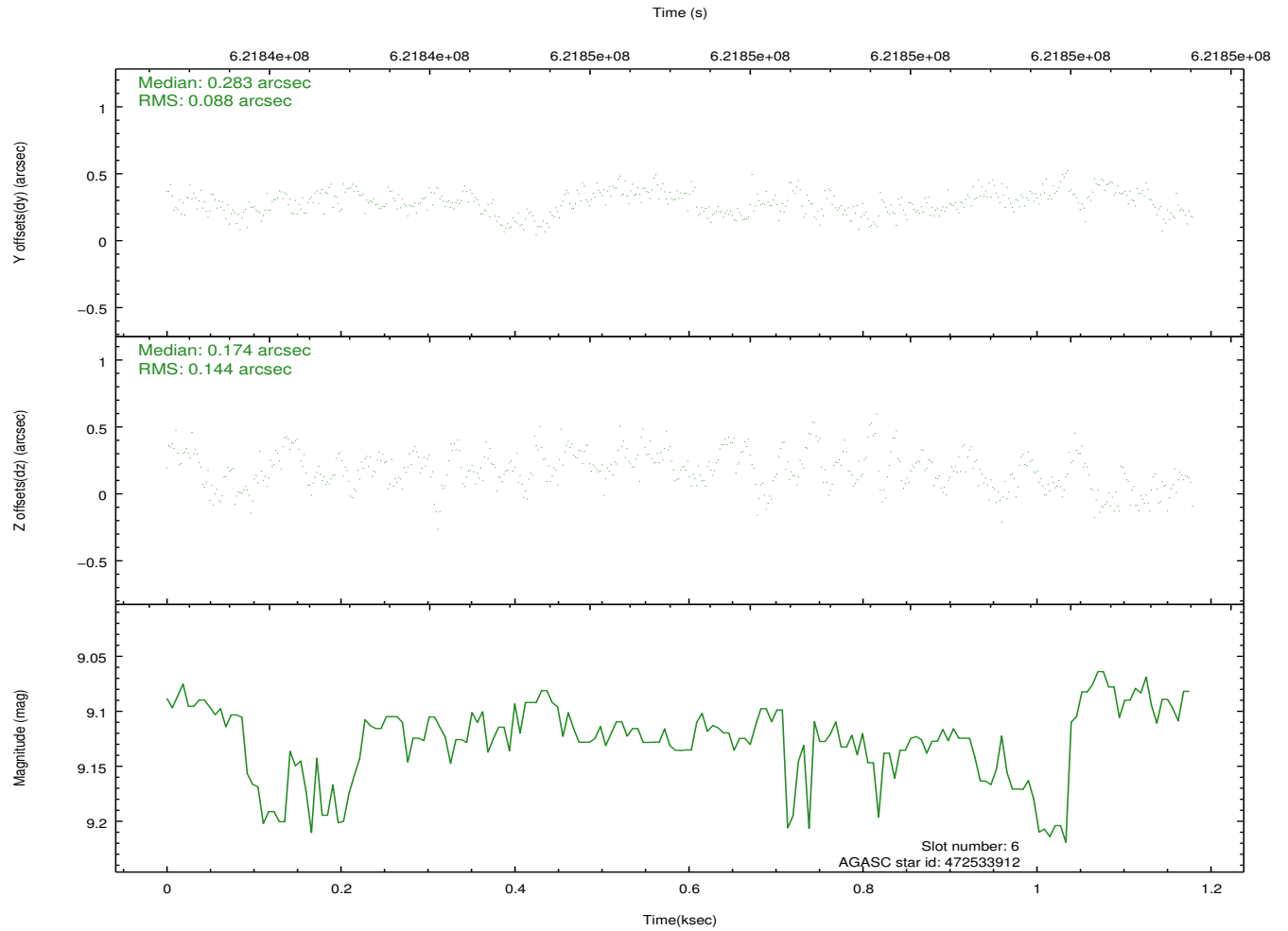
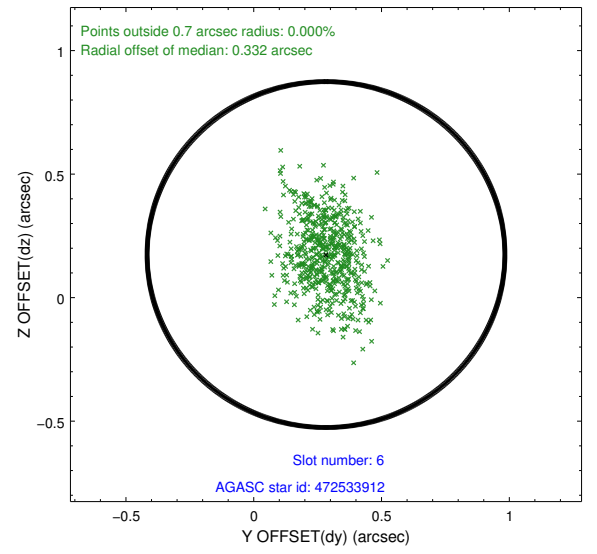
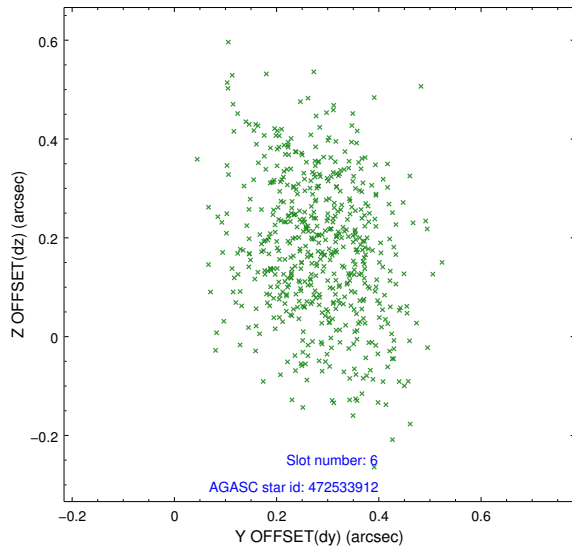
2.4.2 Slot 4



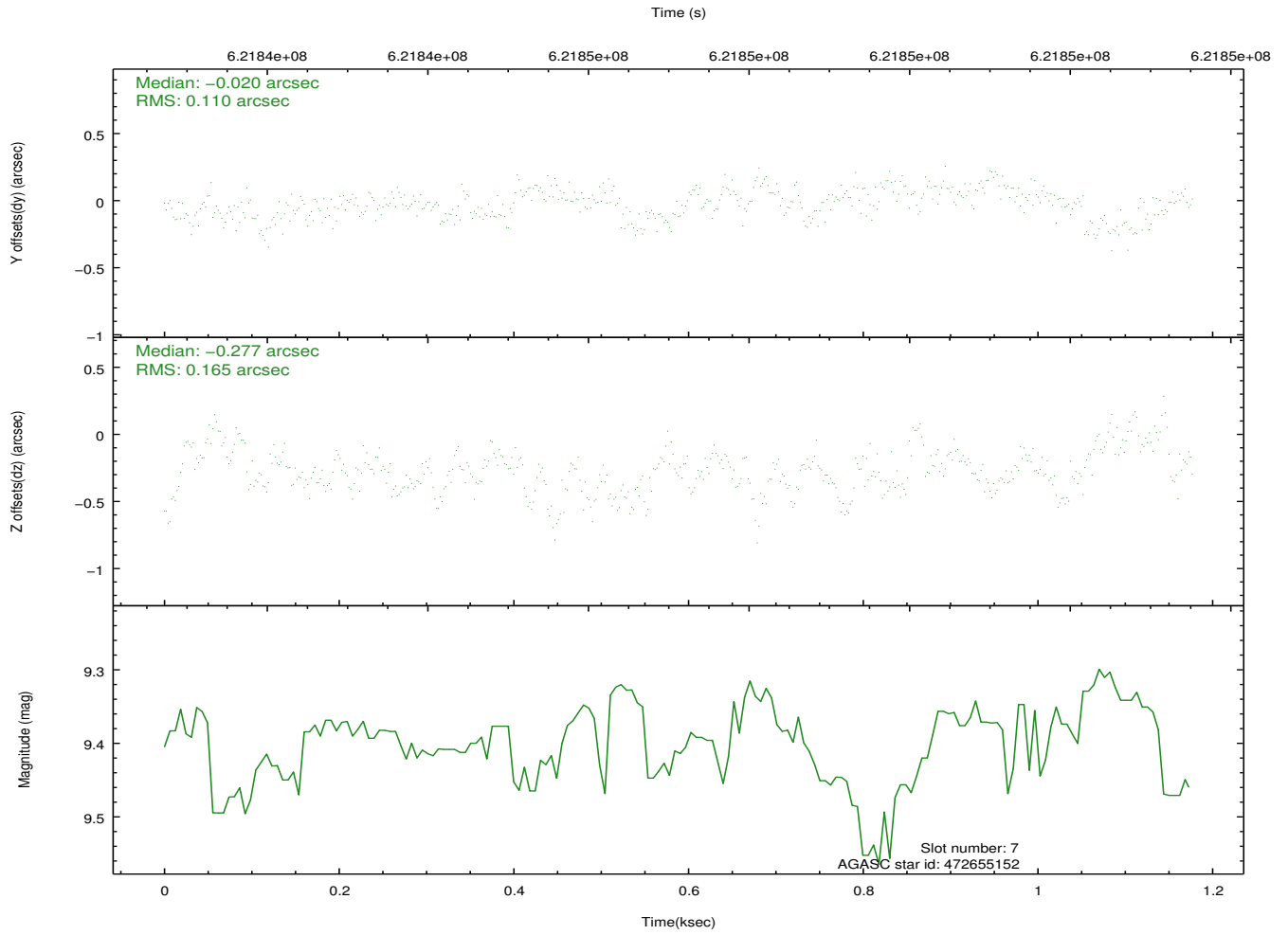
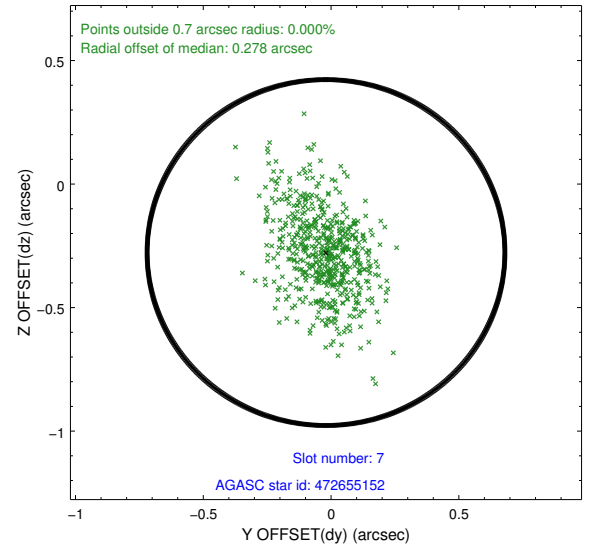
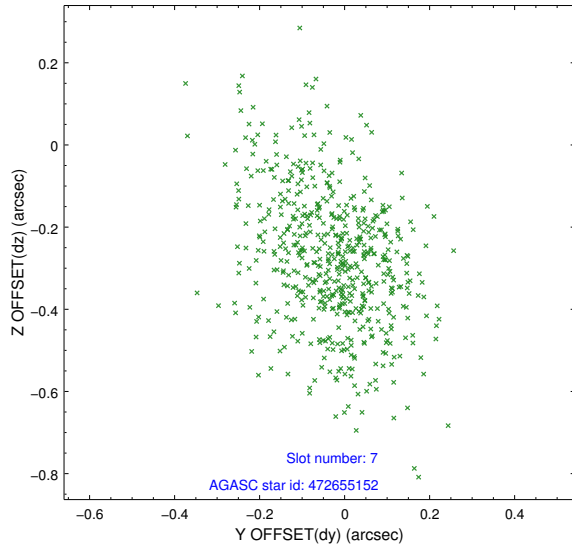
2.4.3 Slot 5



2.4.4 Slot 6

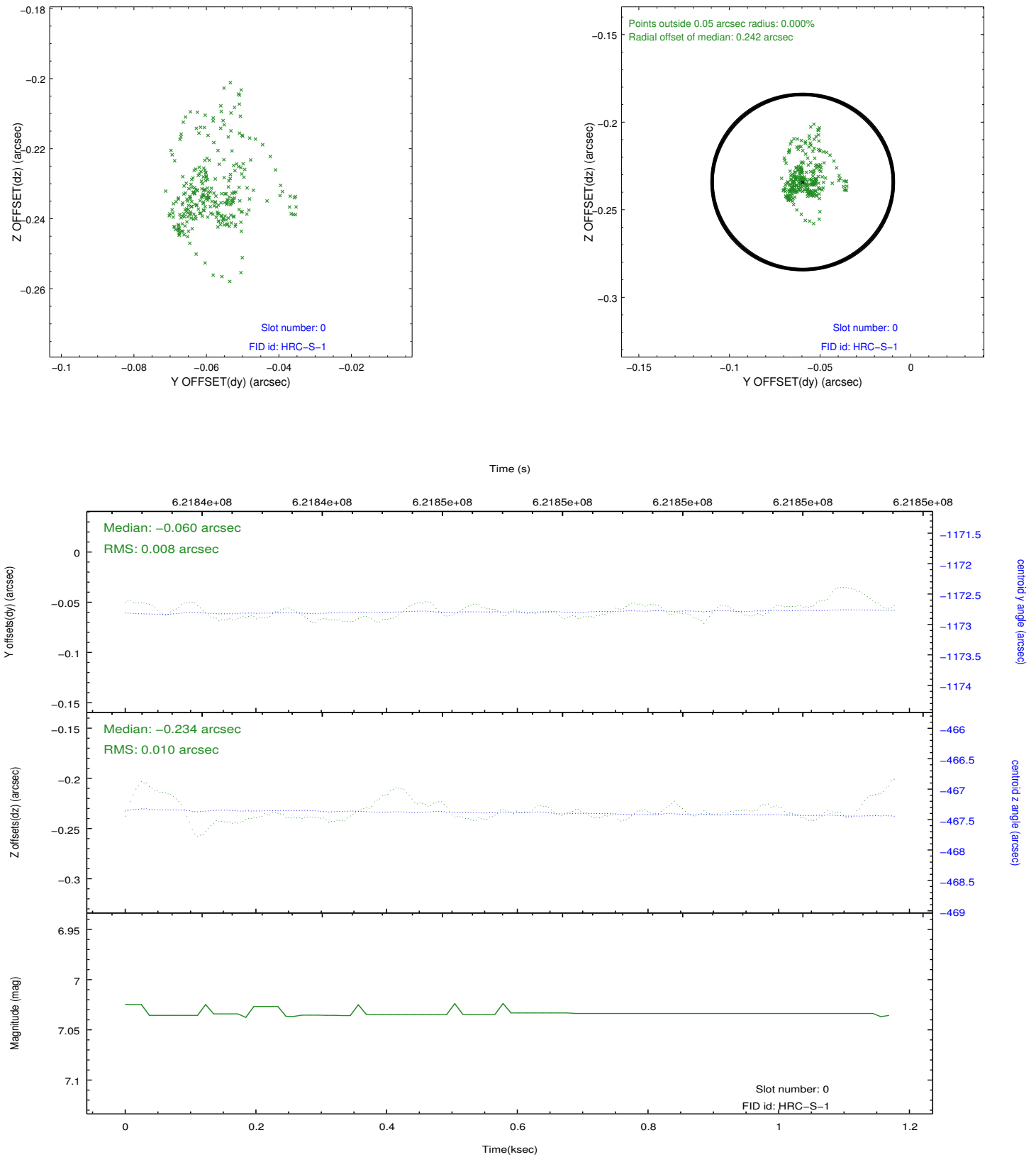


2.4.5 Slot 7

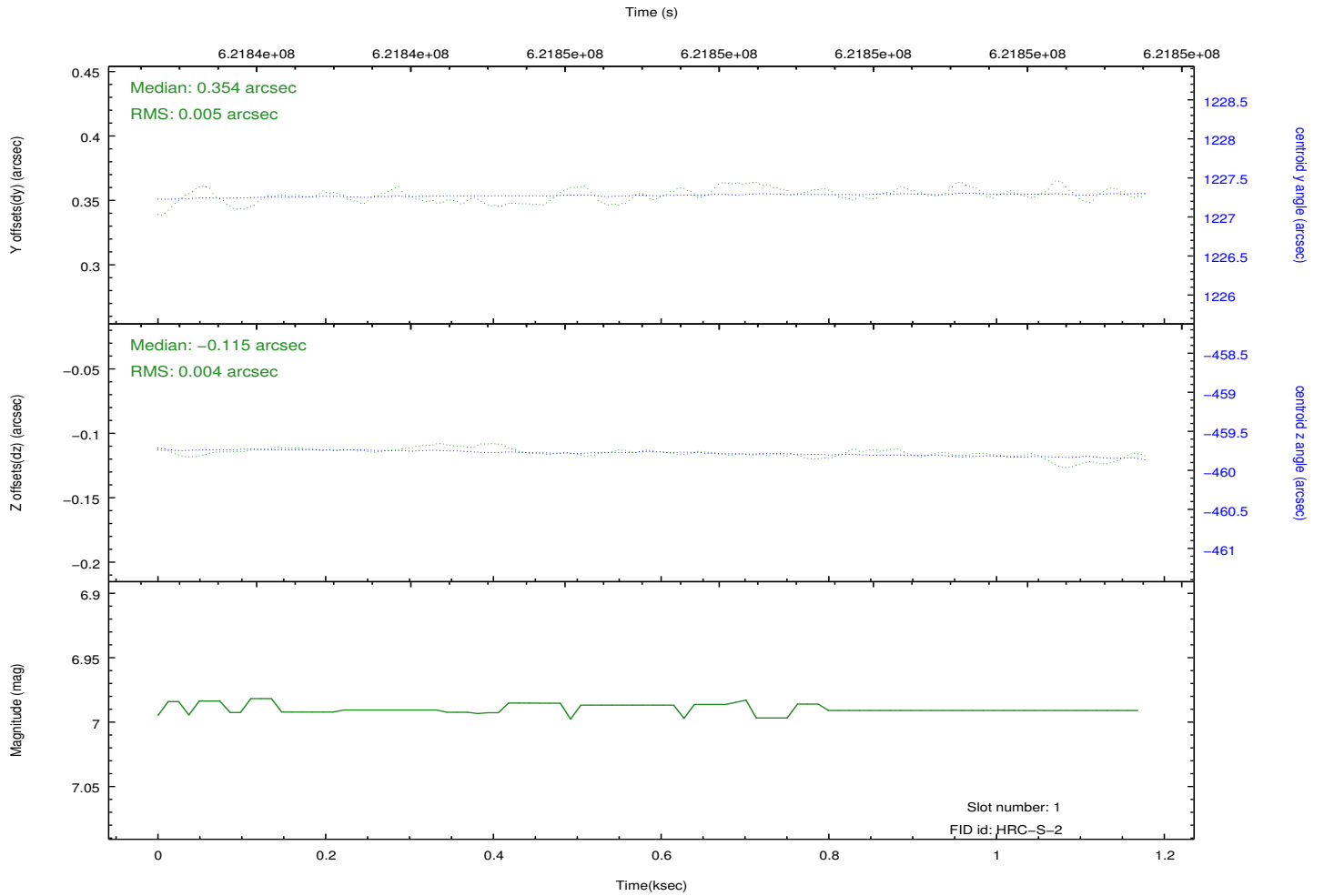
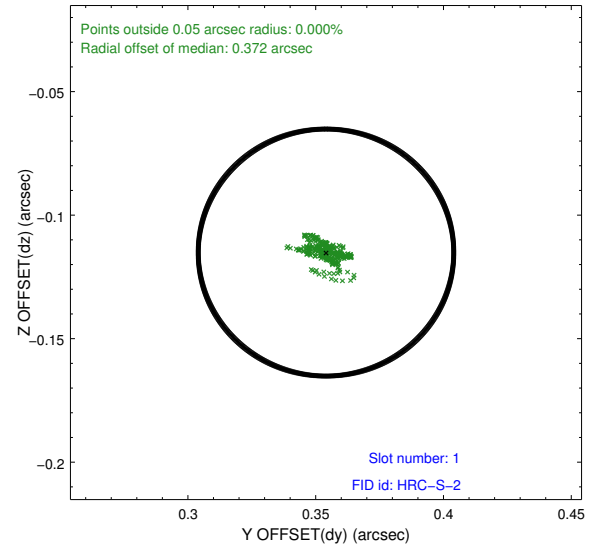
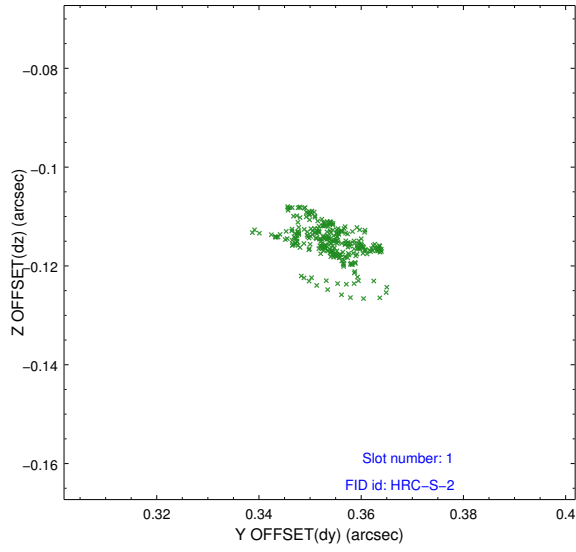


2.5 FID Slots

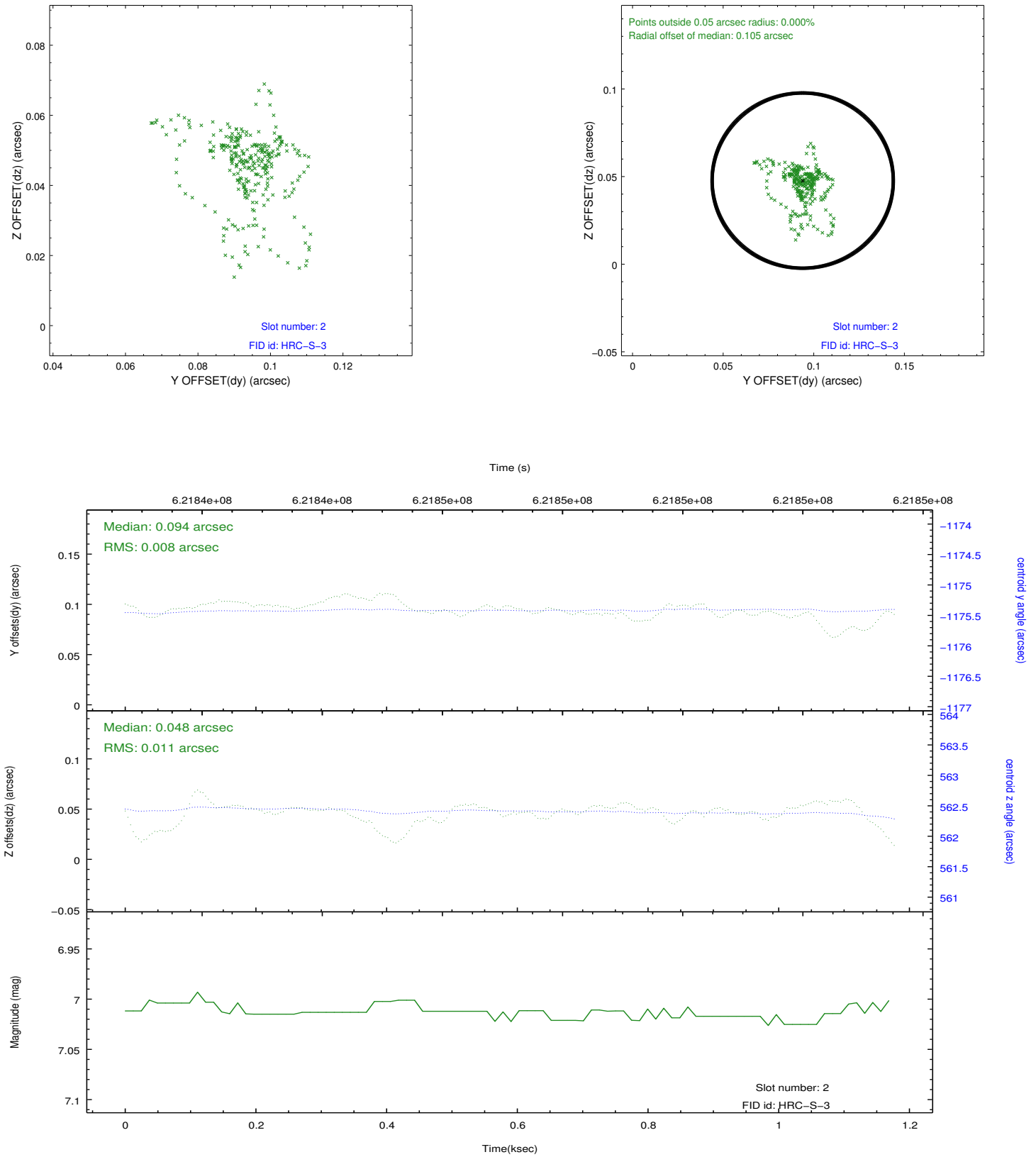
2.5.1 Slot 0



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	1.1777250689268

A.2 Comments