

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21747 - L2 Version 1
Chandra X-Ray Center

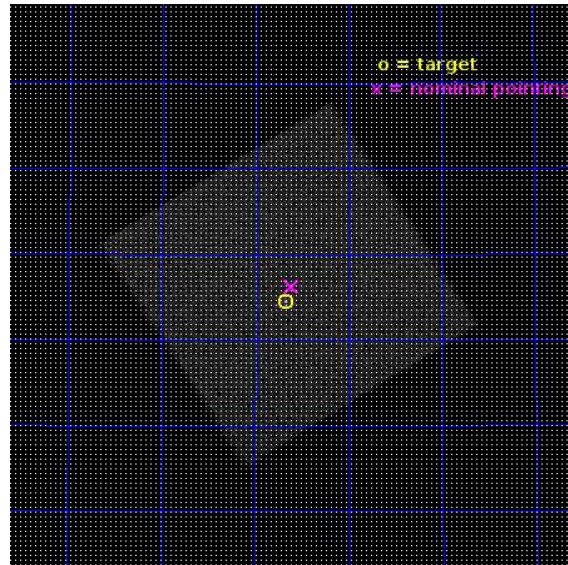
L2 Processing Date : Sep 4 2019

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

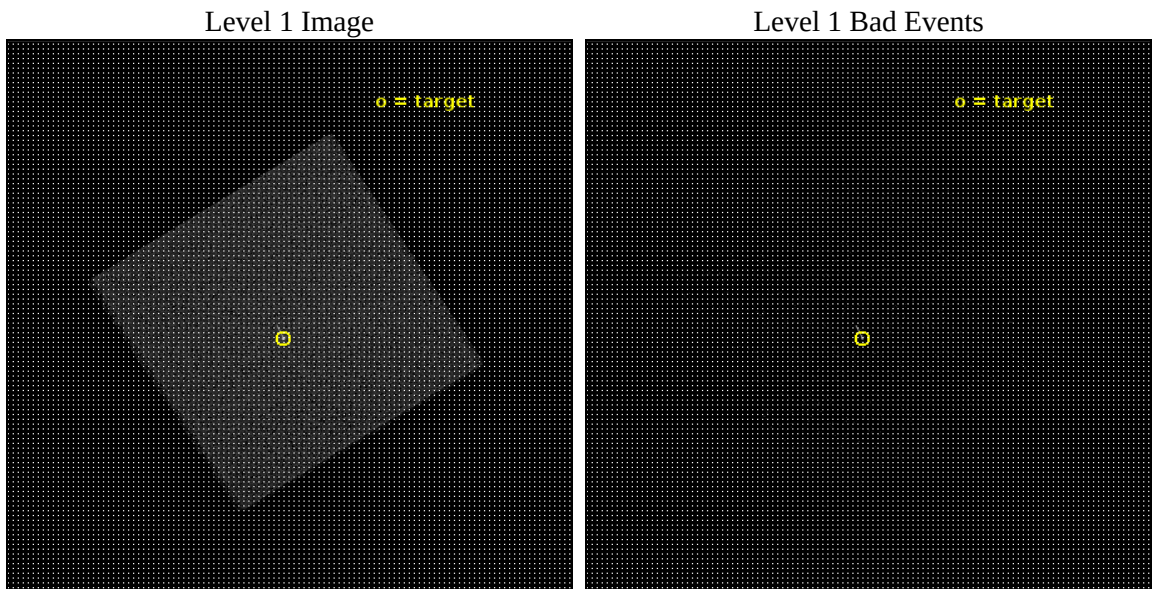
seq_num	291433	Sequence number
obs_id	21747	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.15303263338	Nominal RA [deg]
dec_nom	45.770905430053	Nominal Dec [deg]
roll_nom	192.64222639223	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1194.3813220263	[s]
livetime	1176.8837760784	Ontime multiplied by DTCOR
l2events	154219	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	10.8	Processing system revision	ontime	1194.3813220263	[s]
caldbver	4.8.4	 	l1events	252097	Number of level 1 events
date	2019-09-04T14:33:46	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

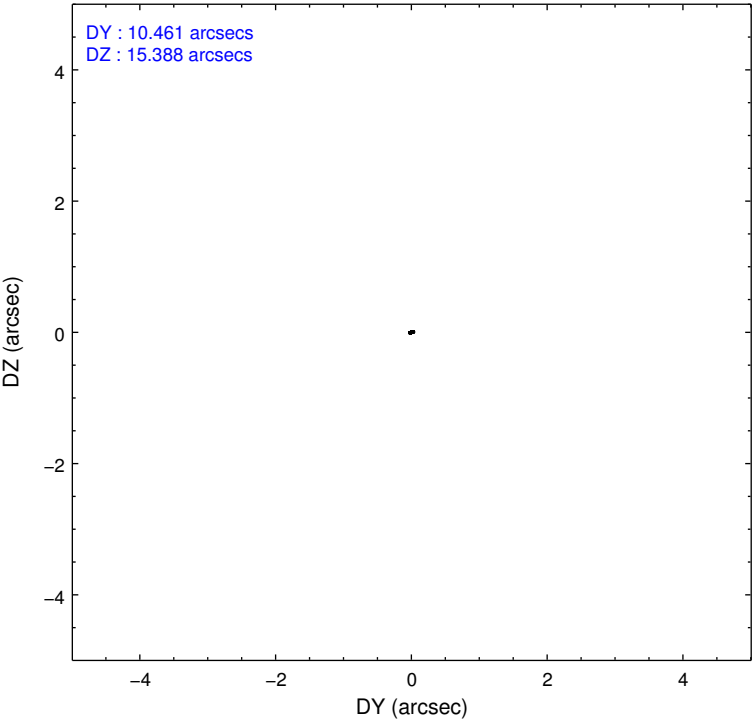
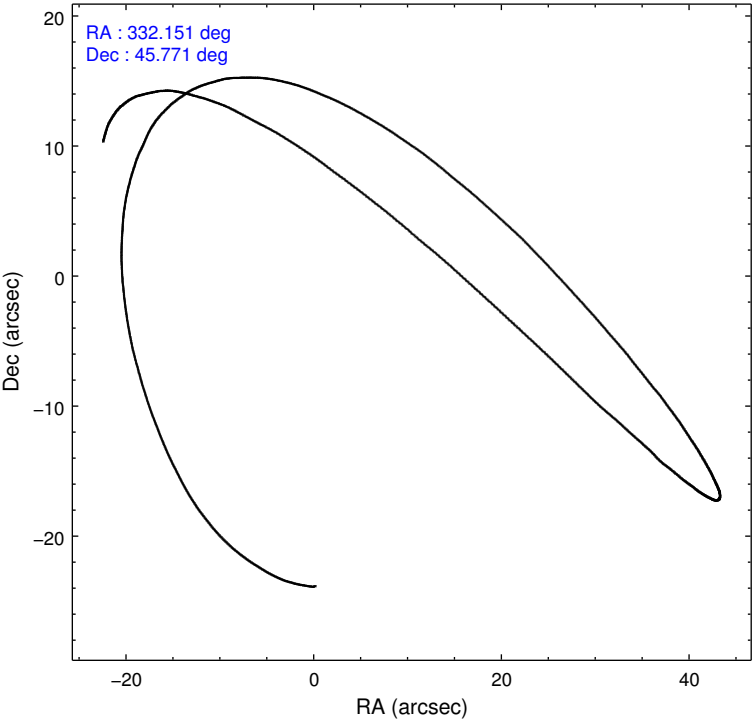
Level 1 Events

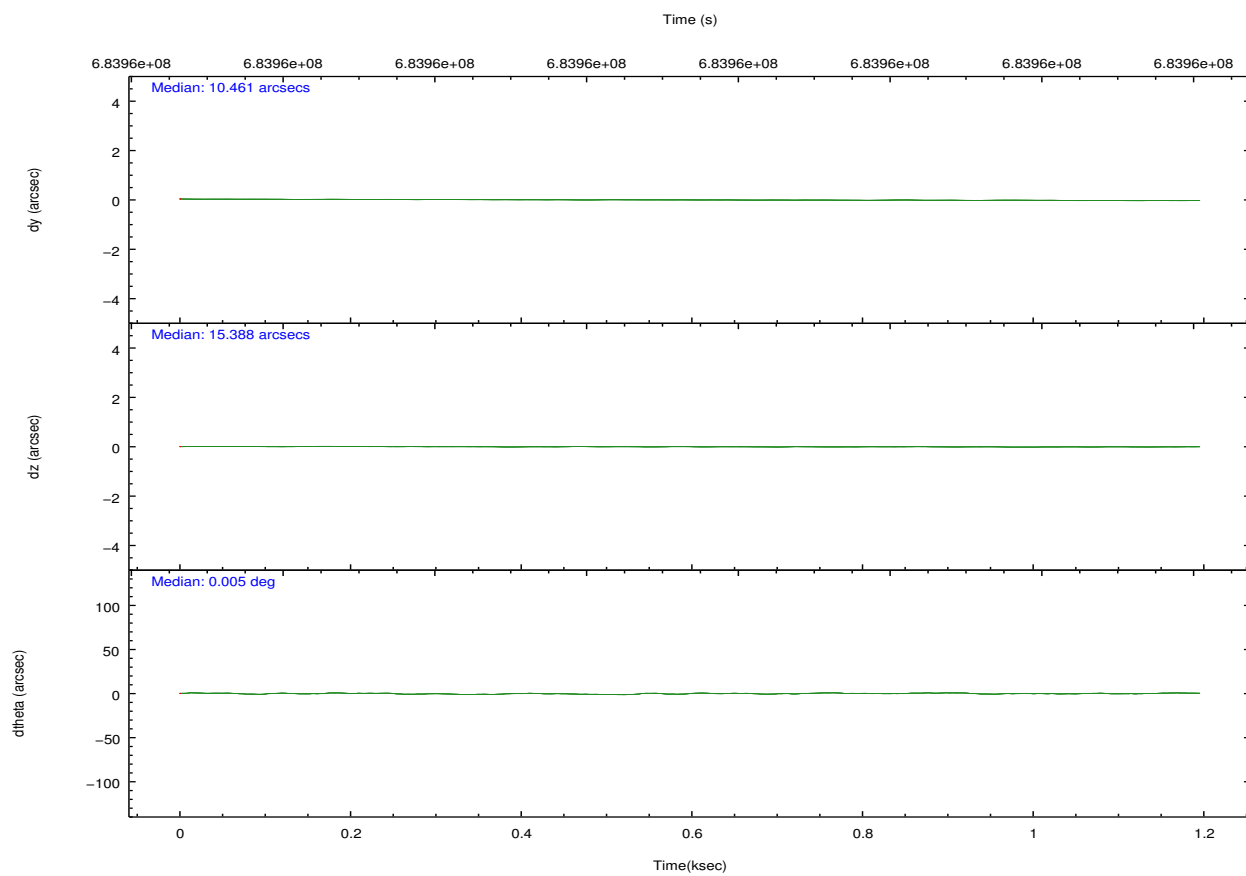
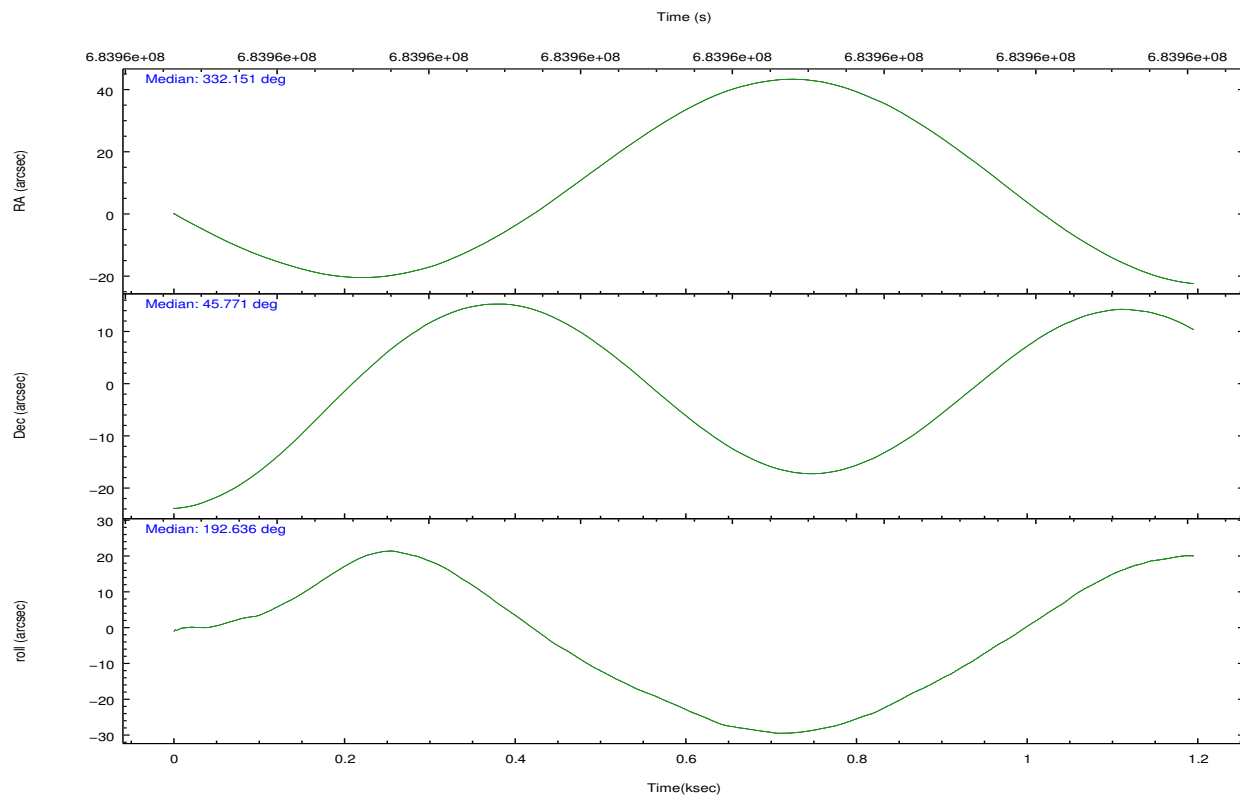
	segment 0
level 1 events	252097
rejected events	52295
rejected %	20%

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	332.181911	332.1530326333759			
[deg] Pointing Dec	45.789596	45.77090543005348			
[deg] Pointing Roll	192.717071	192.6422263922299			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	683957133.184000	683956757.38644			
Observation start date	2019-09-04T04:04:24	2019-09-04T03:59:17			
[s] Observation end time (MET)	683958133.184000	683958267.72403			
Observation end date	2019-09-04T04:21:04	2019-09-04T04:24:27			

2.3 Aspect



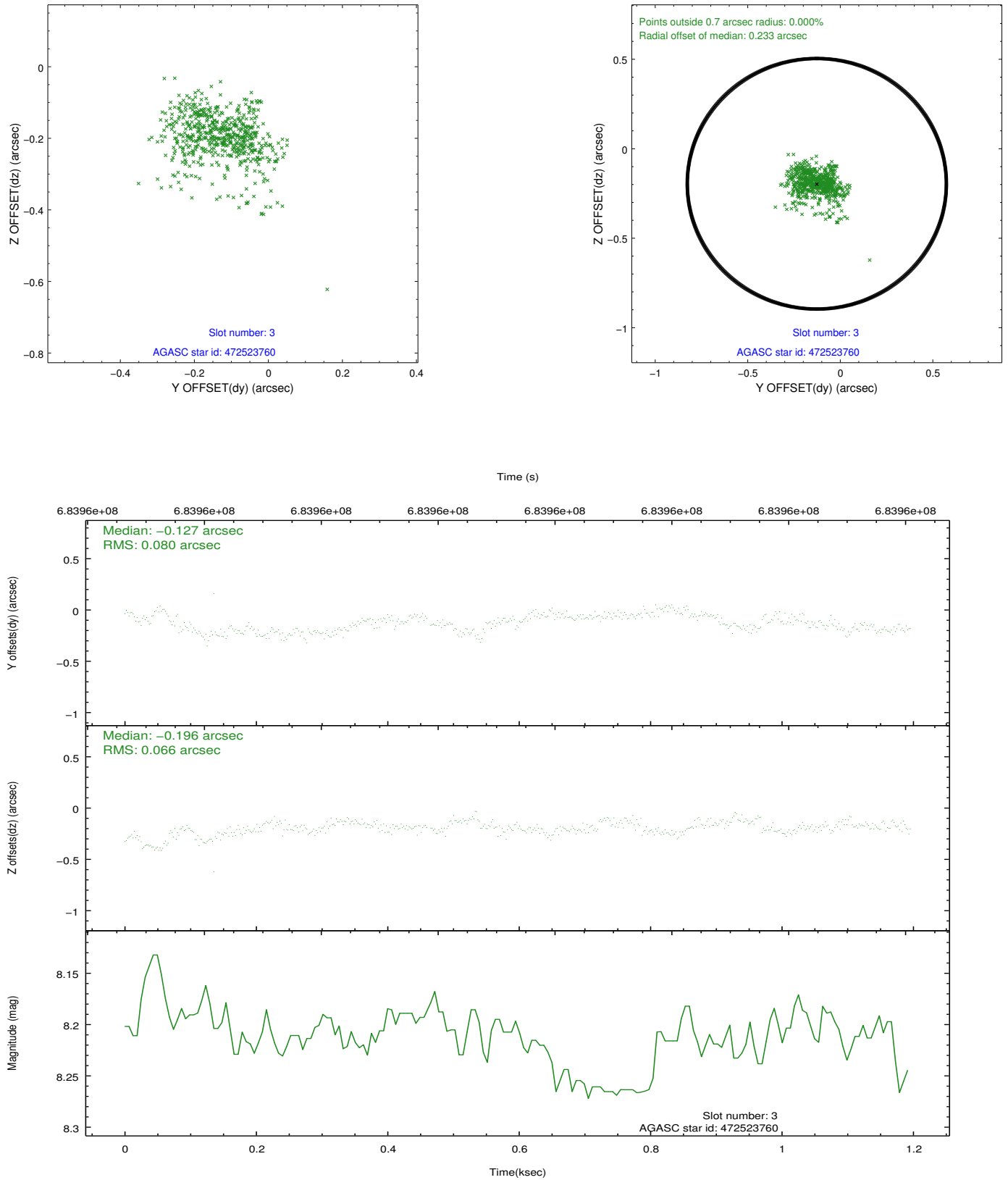


Slot Statistics

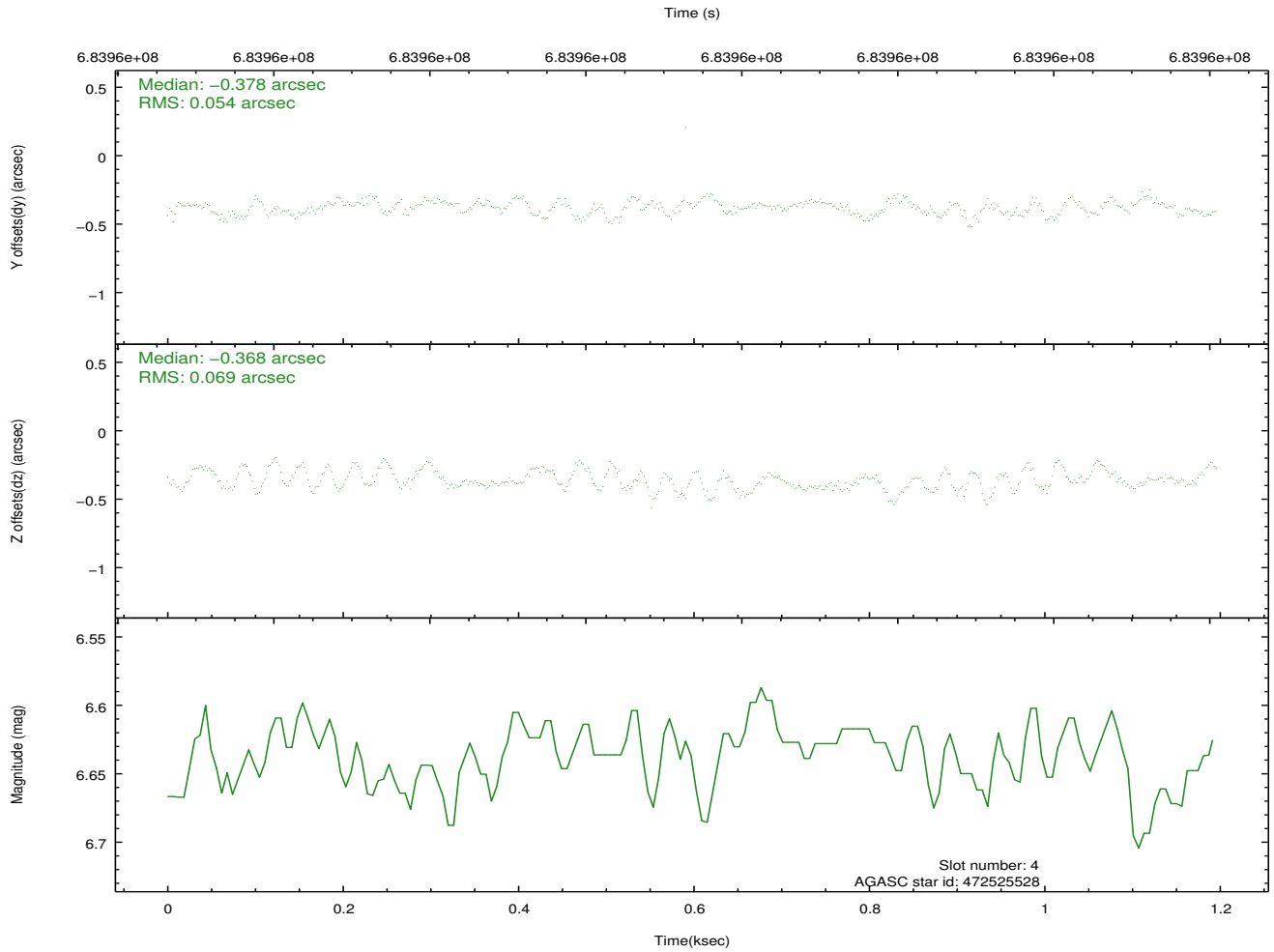
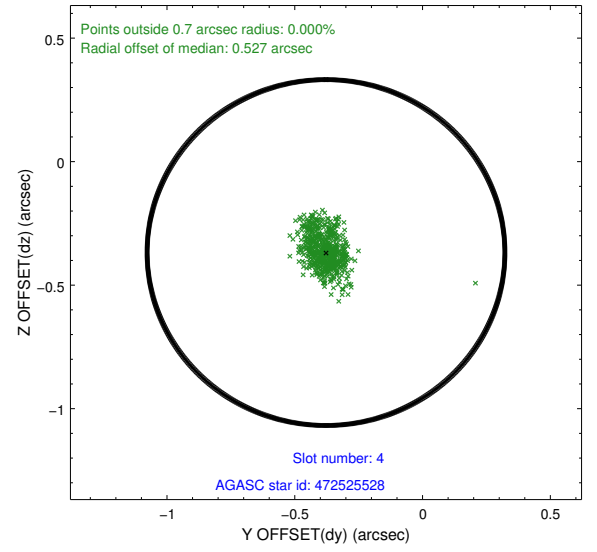
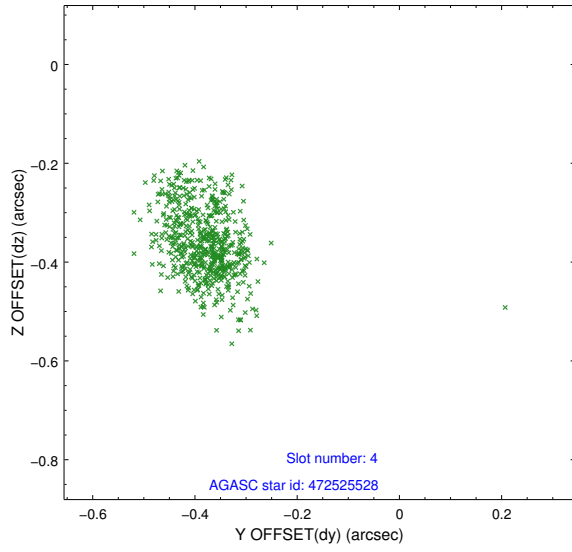
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.06	292	1.000	0.060	-0.157	0.008	0.014	0.000000	0.000000	846.63	-1305
1	FID		HRC-I-3	7.12	292	1.000	-0.364	0.012	0.007	0.011	0.000000	0.000000	-1192.14	996
2	FID		HRC-I-4	7.04	292	1.000	0.423	0.058	0.007	0.011	0.000000	0.000000	1272.95	1002
3	GUIDE	used	472523760	8.21	582	1.000	-0.127	-0.196	0.109	0.174	331.645363	45.403260	1626.93	1055
4	GUIDE	used	472525528	6.64	584	1.000	-0.378	-0.368	0.088	0.150	331.551102	45.248694	1987.55	1544
5	GUIDE	used	472527720	6.99	584	1.000	-0.325	-0.382	0.114	0.183	331.460205	45.112509	2324.88	1970
6	GUIDE	used	472535576	7.84	584	1.000	0.200	0.360	0.104	0.182	331.438373	46.291802	1407.68	-2174
7	GUIDE	used	472665256	8.96	583	1.000	0.644	0.578	0.132	0.222	332.808125	46.195041	-1842.78	-1088

2.4 Star Slots

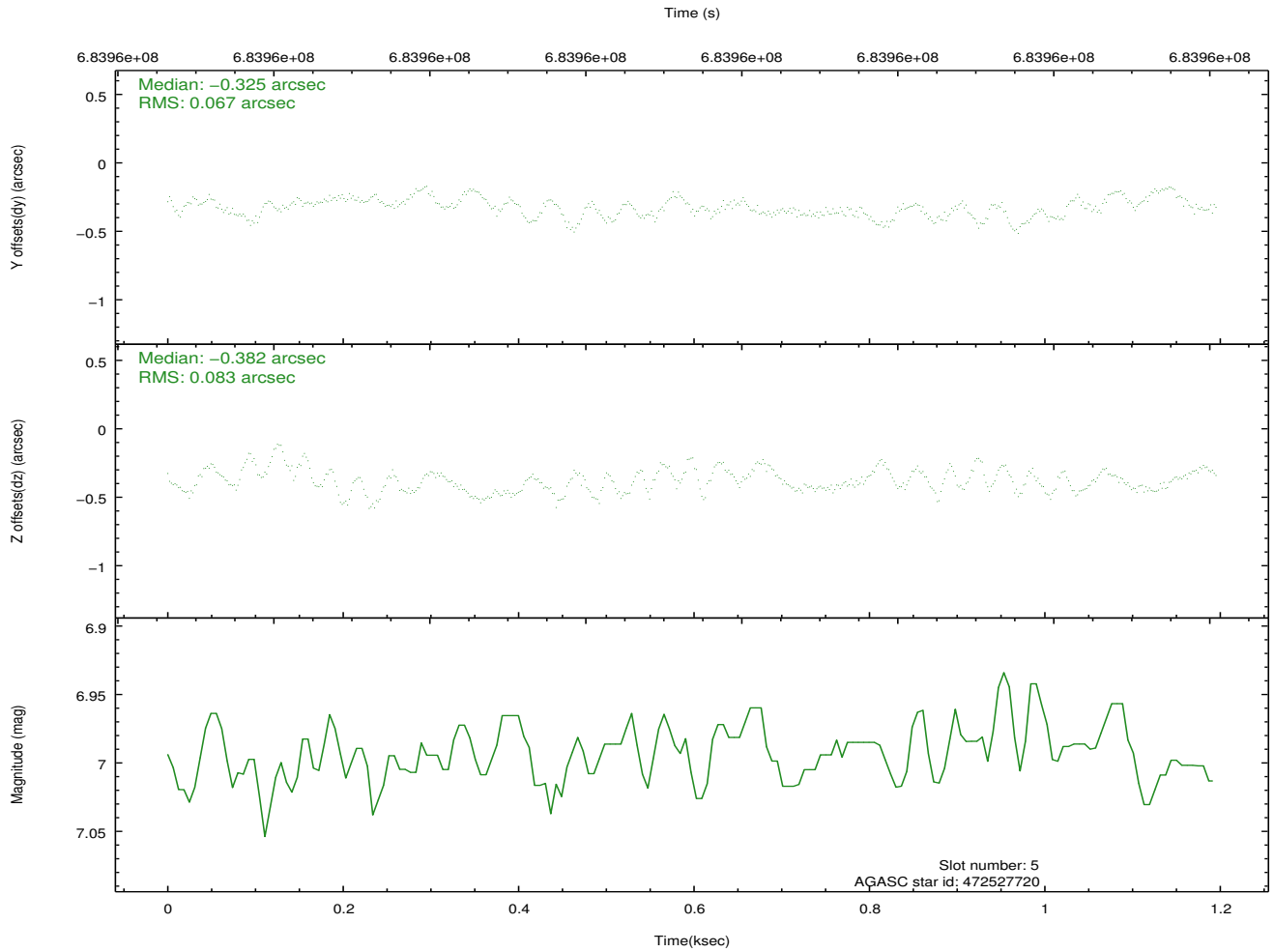
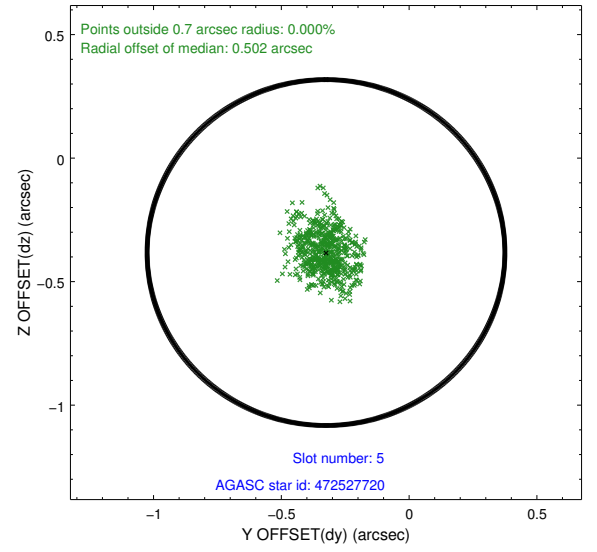
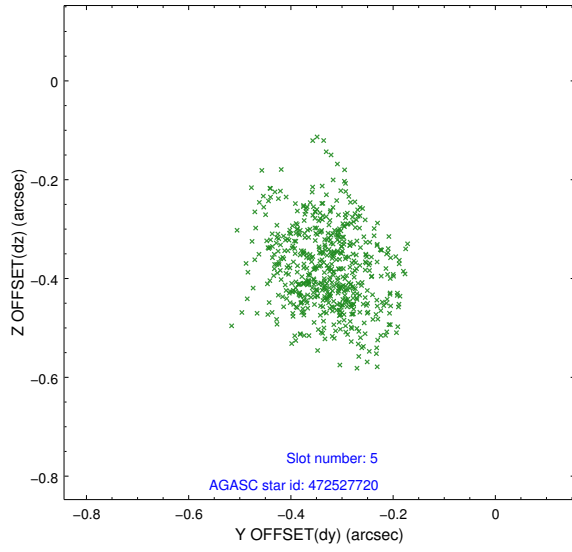
2.4.1 Slot 3



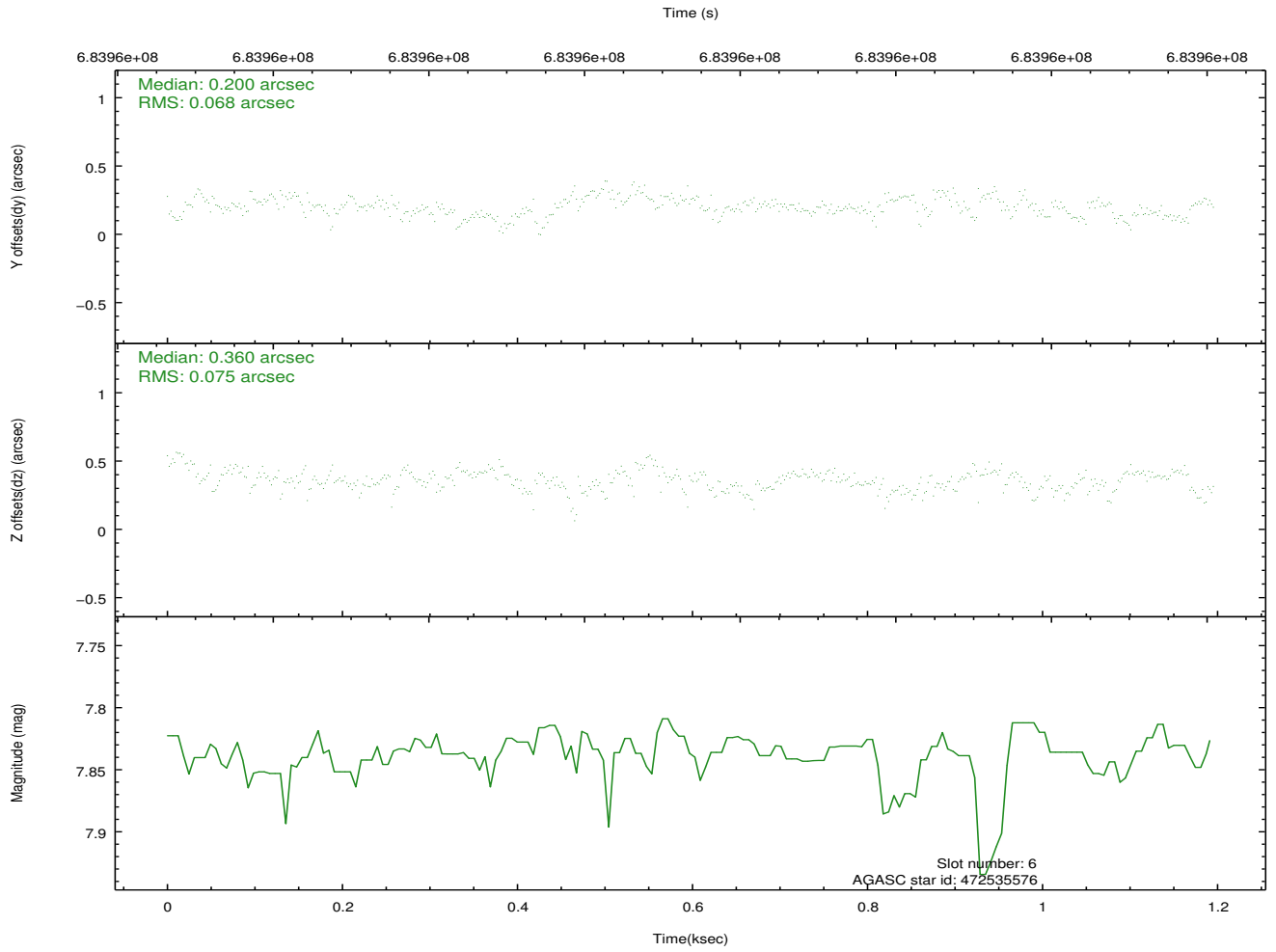
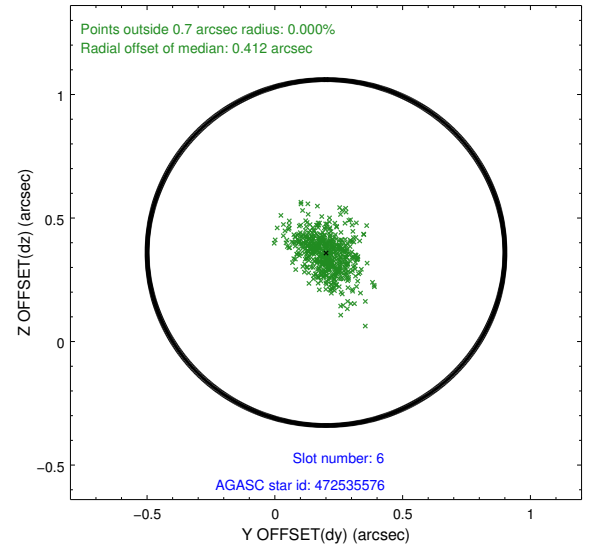
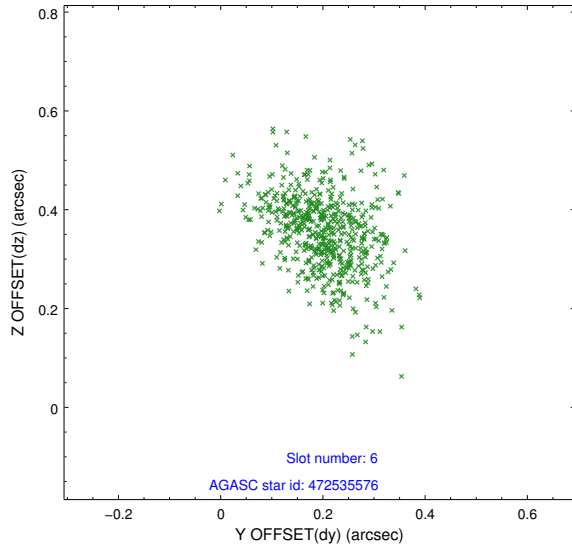
2.4.2 Slot 4



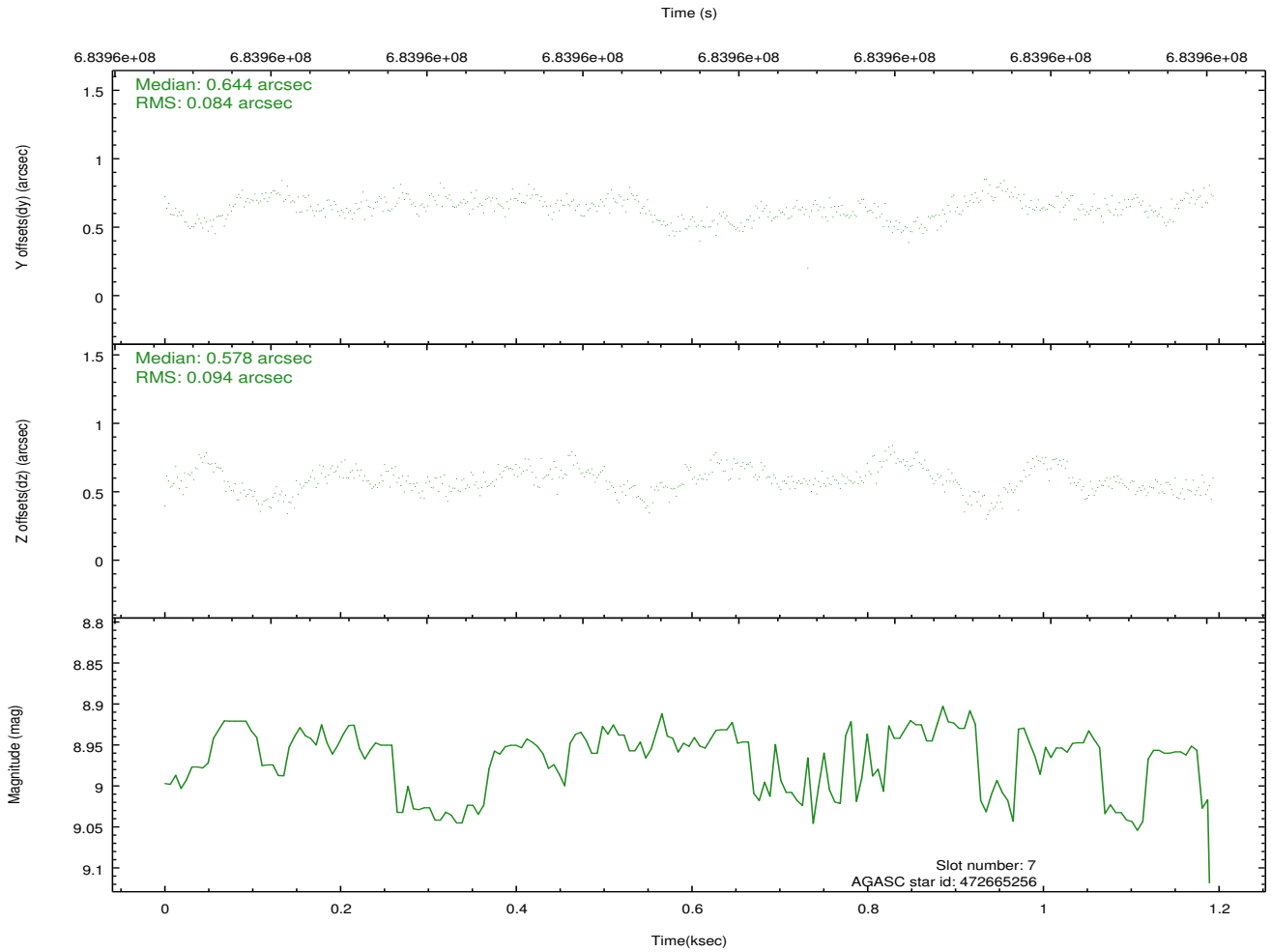
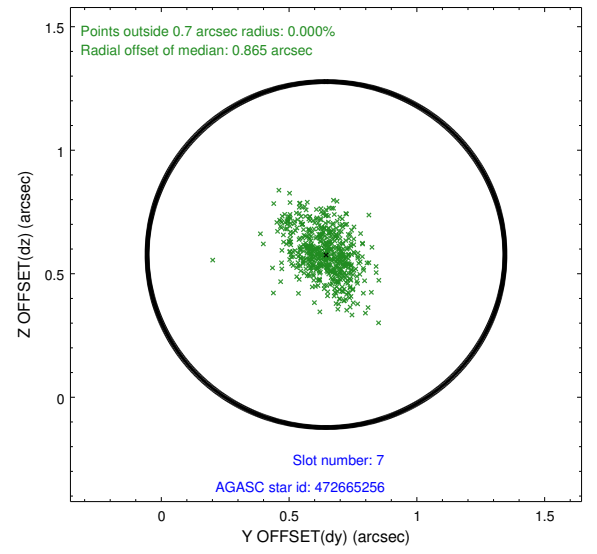
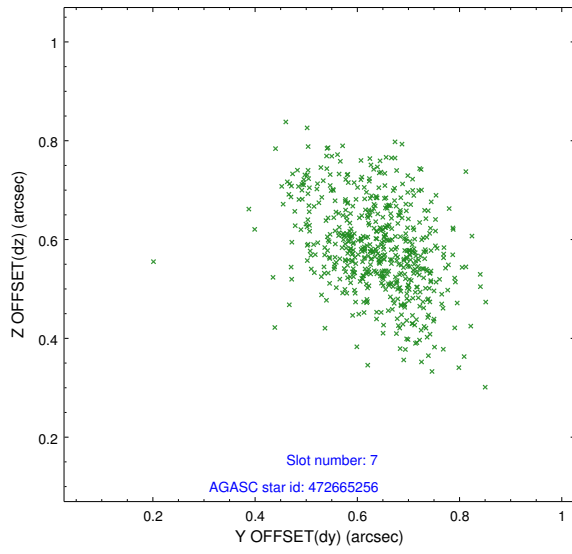
2.4.3 Slot 5



2.4.4 Slot 6

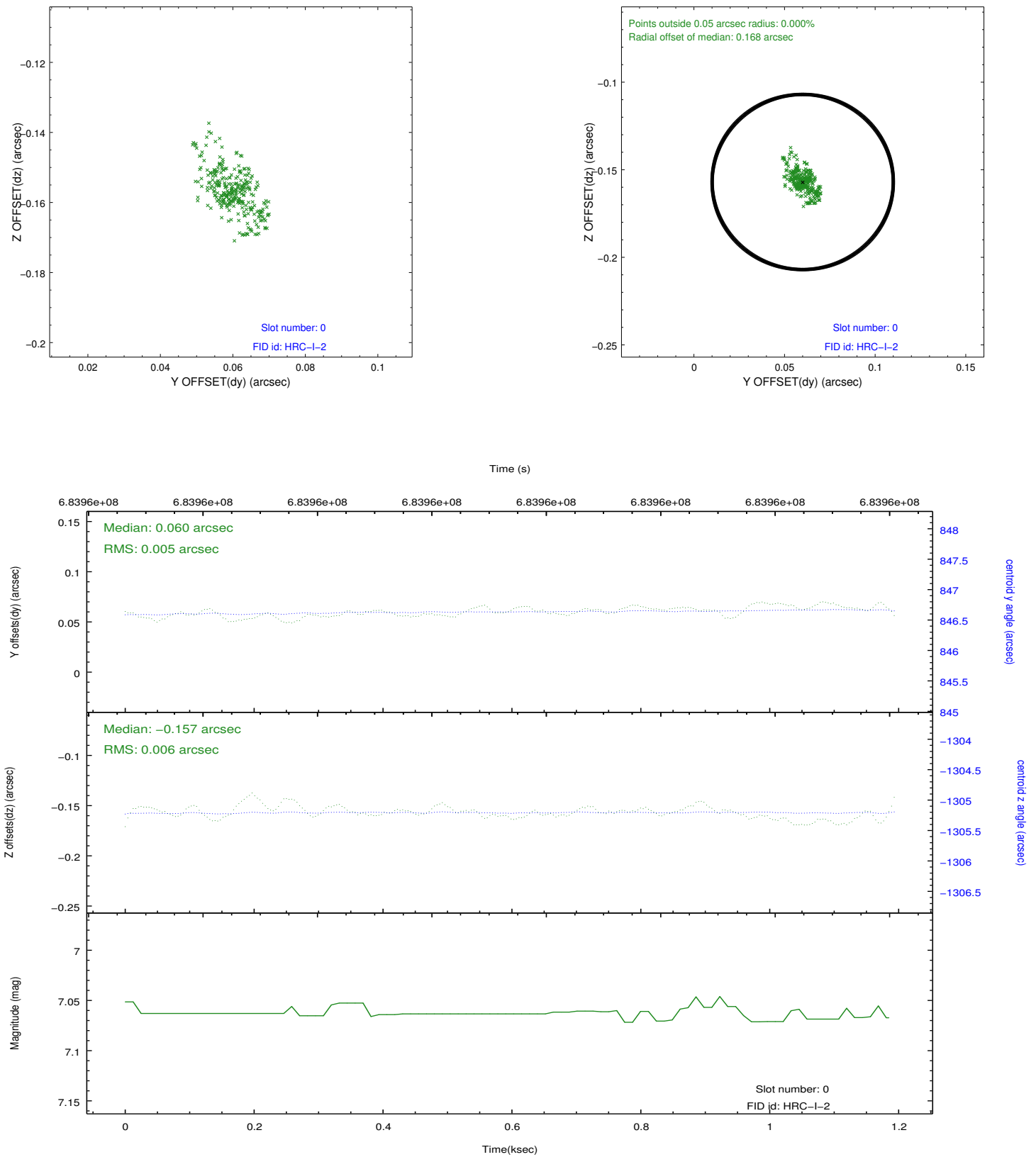


2.4.5 Slot 7

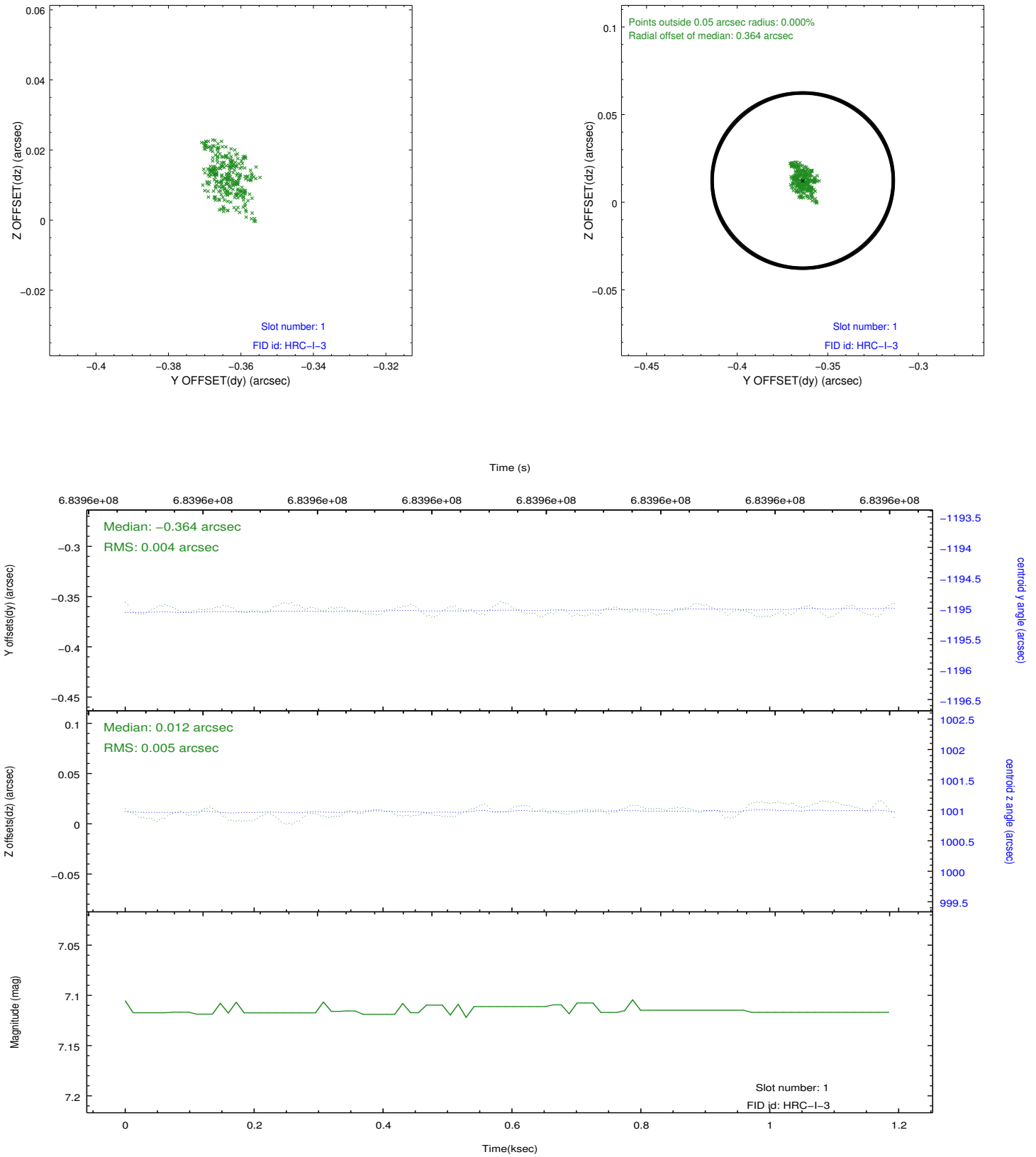


2.5 FID Slots

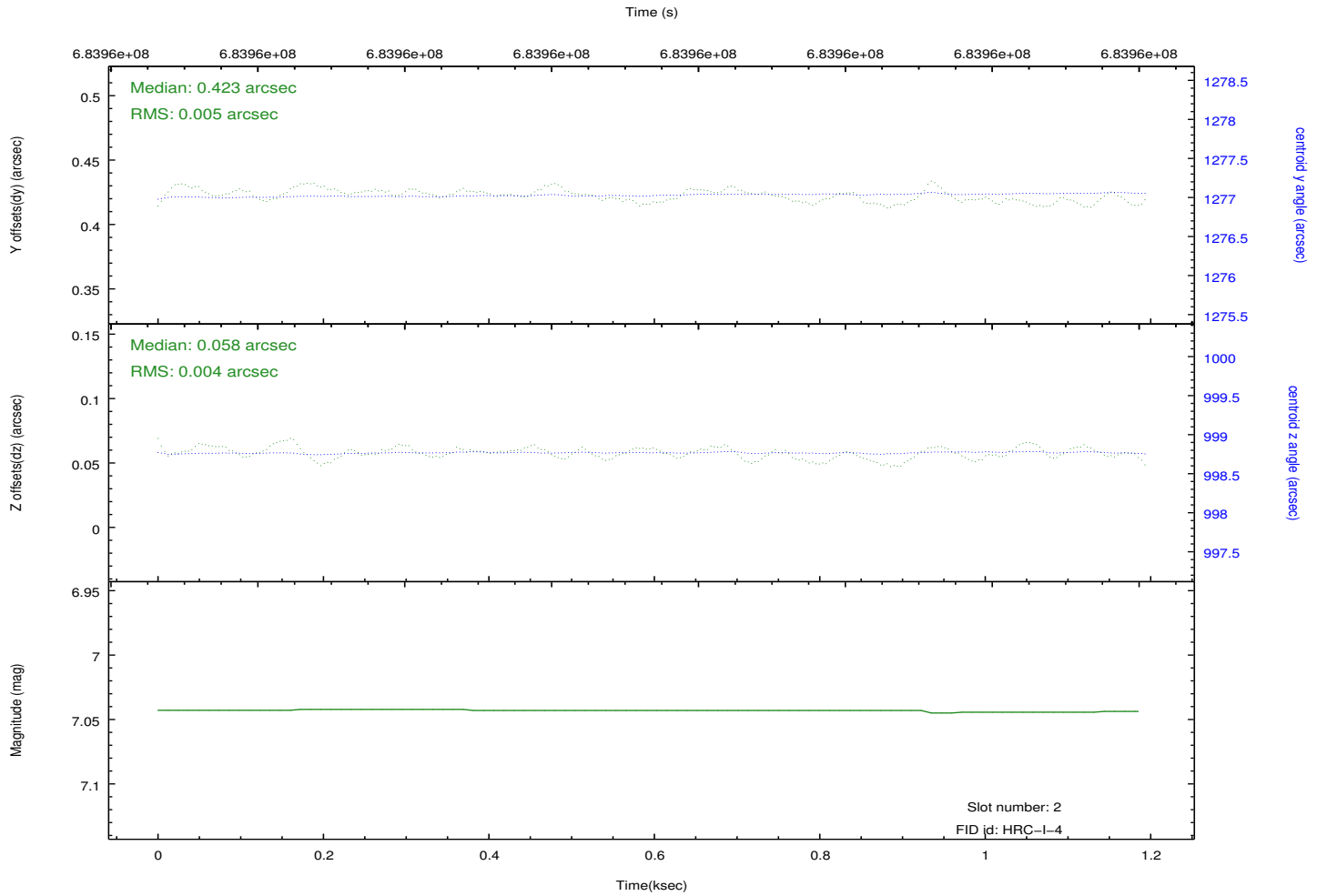
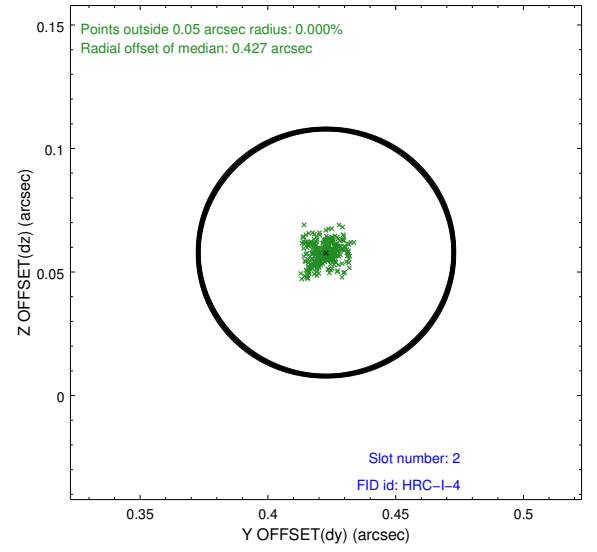
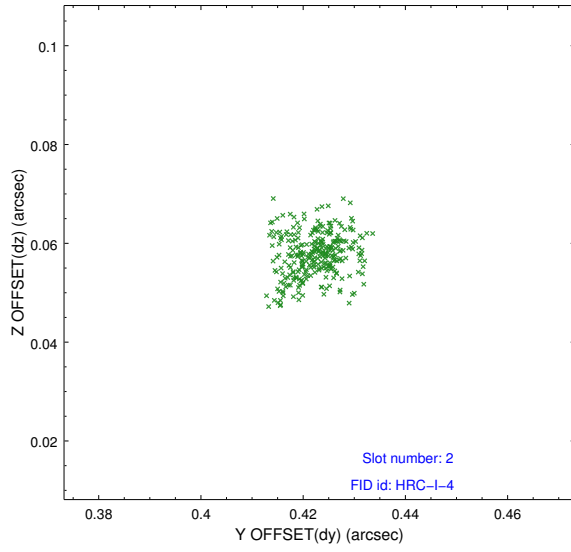
2.5.1 Slot 0



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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1943813220263

A.2 Comments