

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5634 - L2 Version 4  
Chandra X-Ray Center

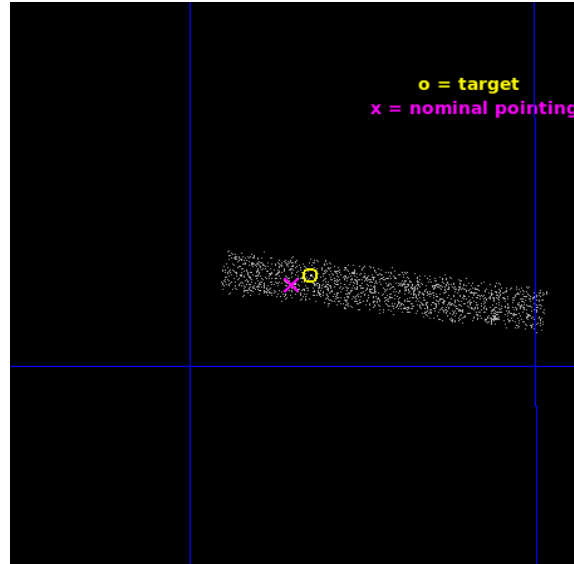
L2 Processing Date : Oct 5 2020

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# 1 Front

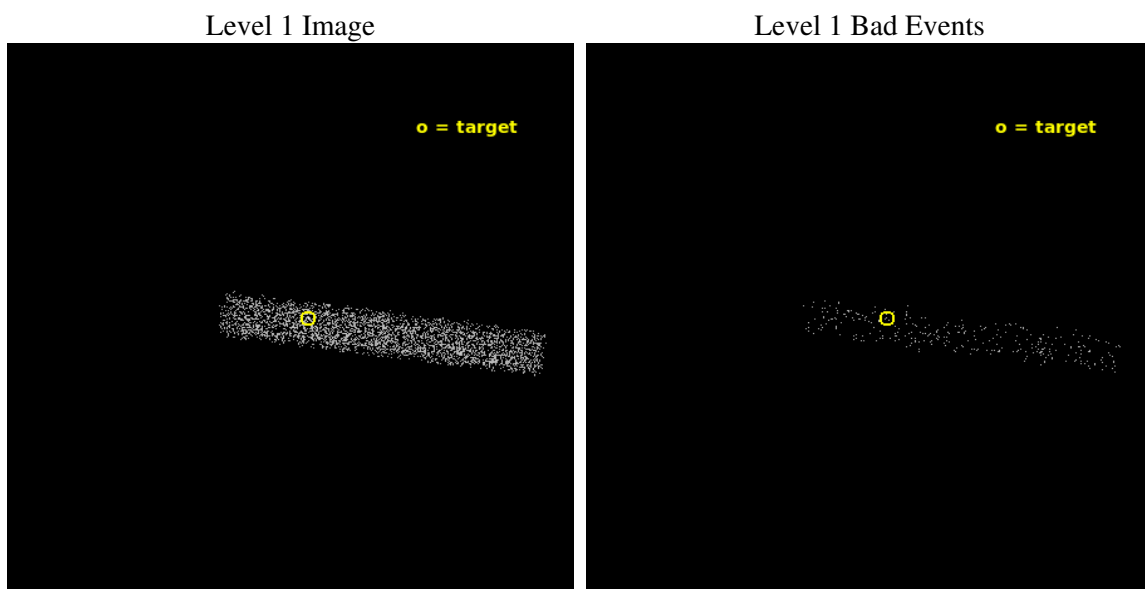
seq_num	701057	Sequence number
obs_id	5634	Observation id
title	Alpha Element Enrichment in Damped Lyman Alpha Absorbers: Survey for New Targets	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	SDSS J172739.03+530229.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	261.9125	Observer's specified target RA [deg]
dec_targ	53.041417	Observer's specified target Dec [deg]
ra_nom	261.92598280667	Nominal RA [deg]
dec_nom	53.037086332879	Nominal Dec [deg]
roll_nom	7.4229533070659	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3148.0000468791	Sum of GTIs [s]
livetime	2855.0698774524	Livetime [s]
ontime7	3148.0000468791	Sum of GTIs [s]
l2events	1880	Number of level 2 events



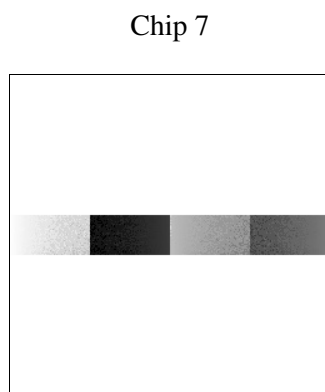
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2962.639000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3148.0000468791	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	3148.0000468791	Sum of GTIs [s]
date	2020-10-05T17:55:30	Date and time of file creation	l1events	5103	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

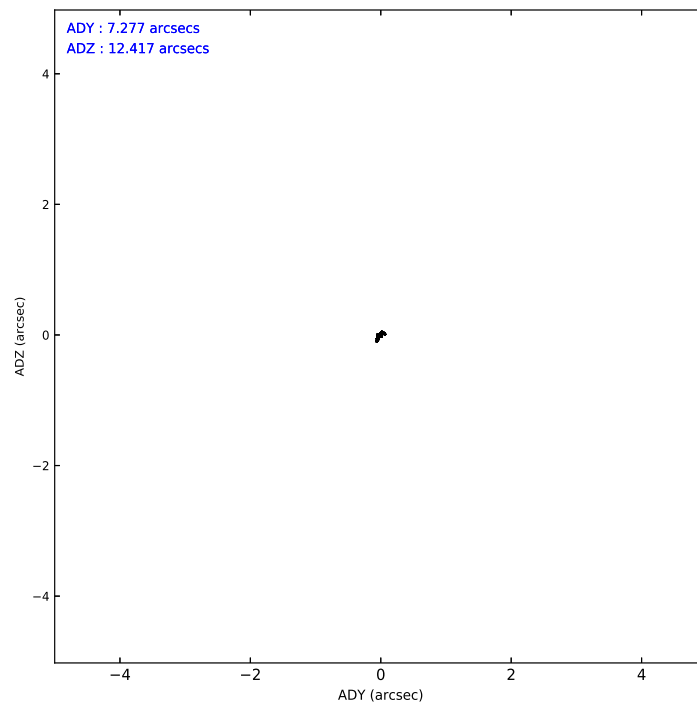
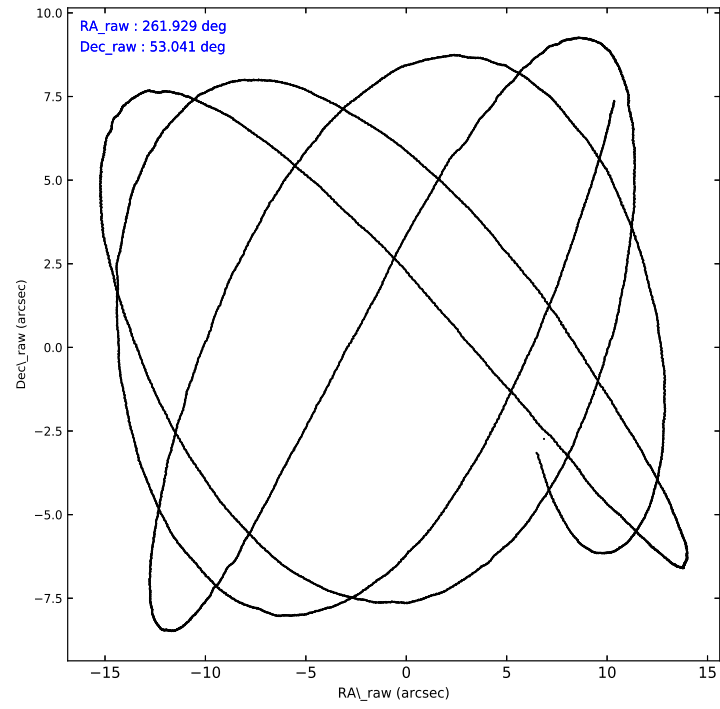
	<b>ccd 7</b>
level 1 events	5103
rejected events	3145
rejected %	61%

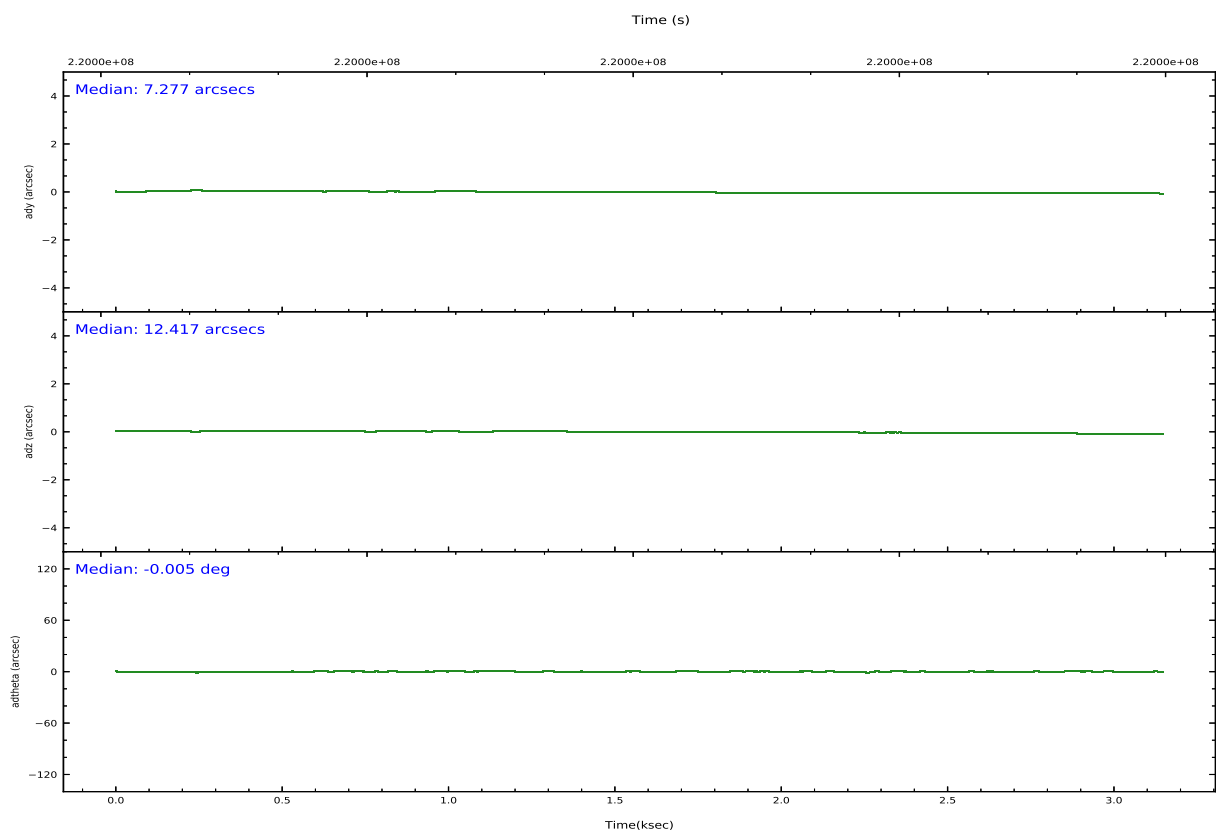
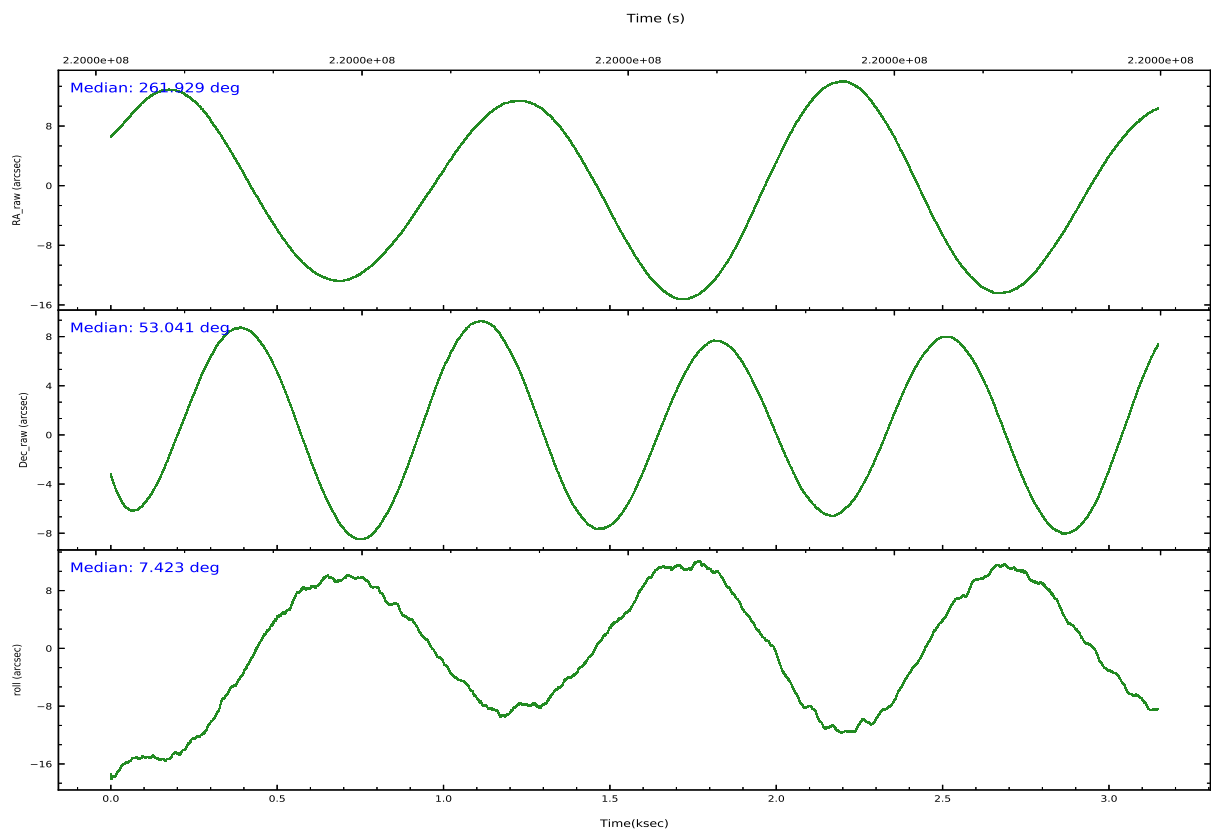
	<b>ccd 7</b>
grade 0 events	255
	4%
grade 1 events	8
	0%
grade 2 events	436
	8%
grade 3 events	325
	6%
grade 4 events	295
	5%
grade 5 events	502
	9%
grade 6 events	1012
	19%
grade 7 events	2270
	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	261.892987	261.92598280667	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	53.024121	53.037086332879	Subarray start row	449	449
[deg] Pointing Roll	7.295487	7.4229533070659	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	219999430.184000	219998521.39527			
Observation start date	2004-12-21T06:56:06	2004-12-21T06:42:01			
[s] Observation end time (MET)	220002393.184000	220002621.90796			
Observation end date	2004-12-21T07:45:29	2004-12-21T07:50:21			
Read mode	TIMED	TIMED			

## 2.3 Aspect





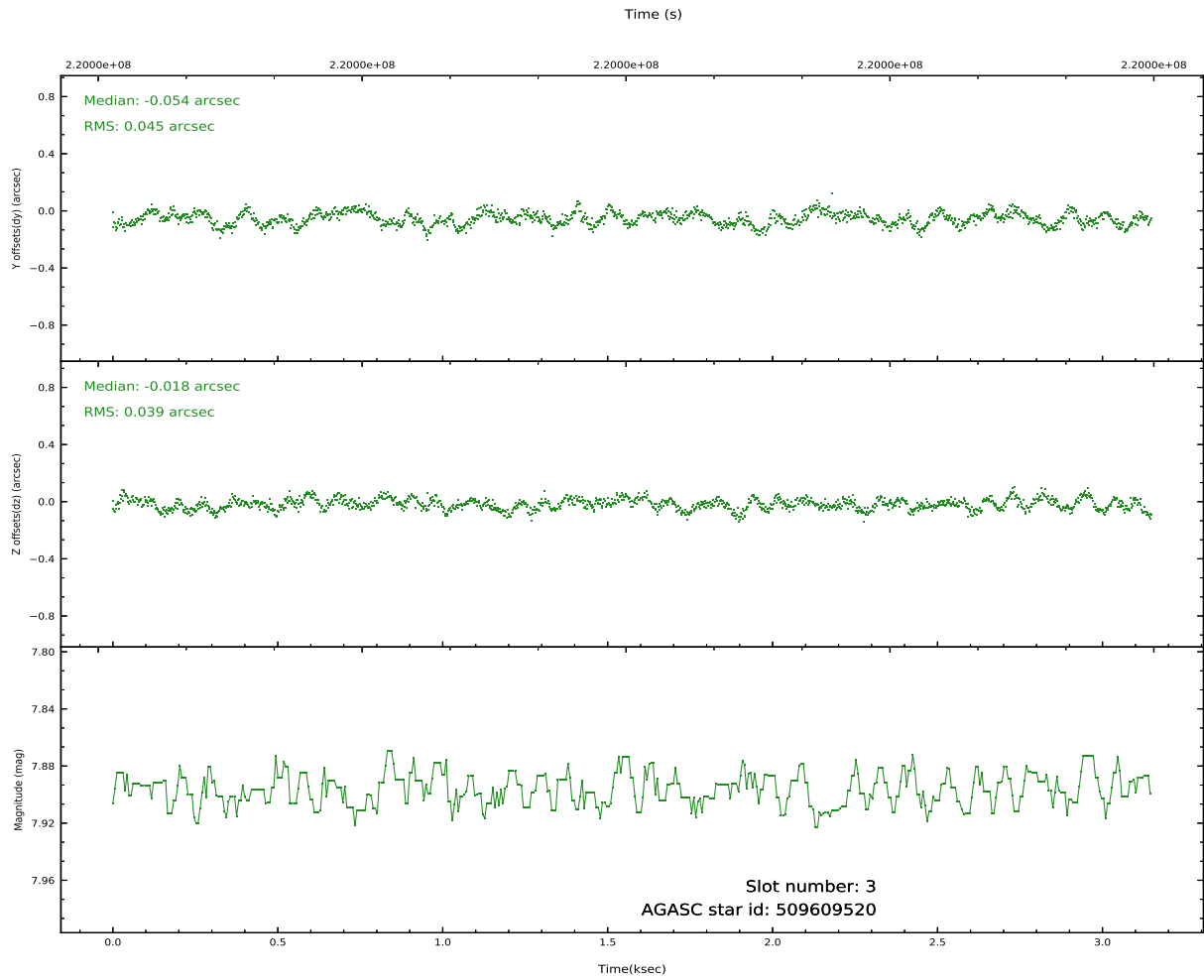
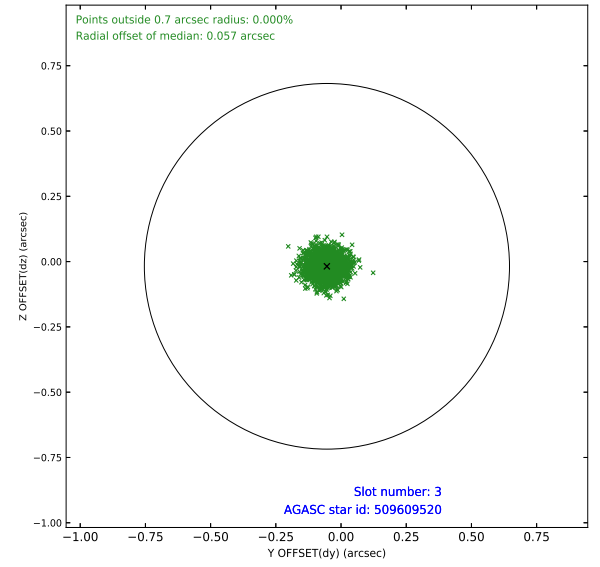
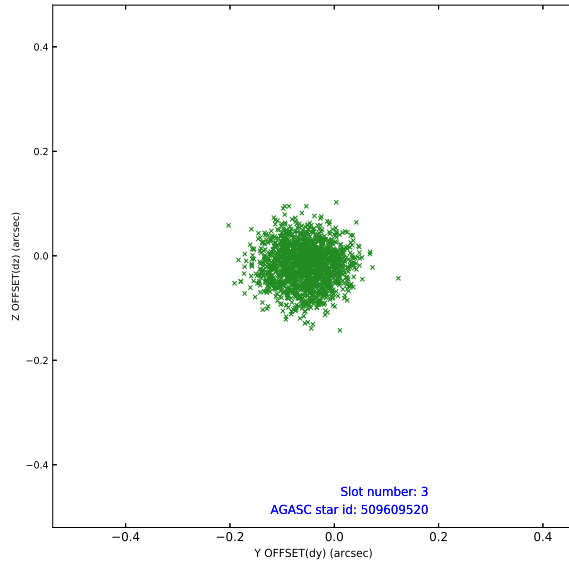
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	768	1.000	-0.047	-0.070	0.007	0.012	0.000000	0.000000	-760.06	-1733
1	FID		ACIS-S-4	7.20	768	1.000	0.118	0.041	0.006	0.011	0.000000	0.000000	2152.45	172
2	FID		ACIS-S-5	7.23	768	1.000	-0.103	0.038	0.008	0.014	0.000000	0.000000	-1810.37	168
3	GUIDE	used	509609520	7.90	1536	1.000	-0.054	-0.018	0.065	0.098	261.284675	53.132748	-1253.05	560
4	GUIDE	used	509614256	8.62	1537	1.000	-0.002	-0.090	0.058	0.095	262.605831	53.154697	1586.06	279
5	GUIDE	used	509615320	7.96	1537	1.000	-0.008	0.083	0.057	0.094	260.903123	53.349296	-1958.64	1446
6	GUIDE	used	509620632	8.27	1534	1.000	-0.029	0.125	0.082	0.131	263.060888	52.592392	2337.65	-1843
7	GUIDE	used	509622384	8.92	1536	1.000	0.087	-0.101	0.081	0.138	261.053261	53.512675	-1557.03	1982

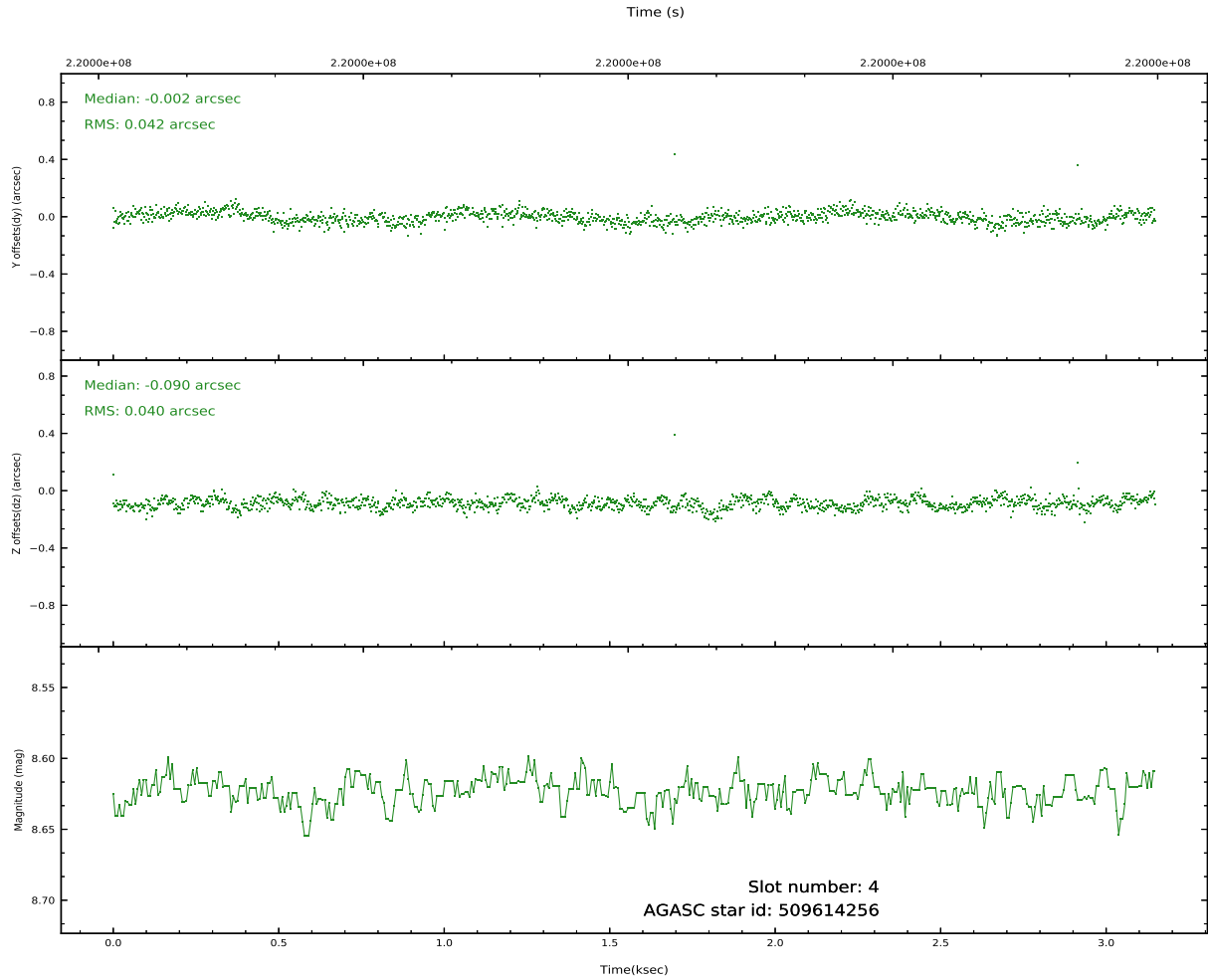
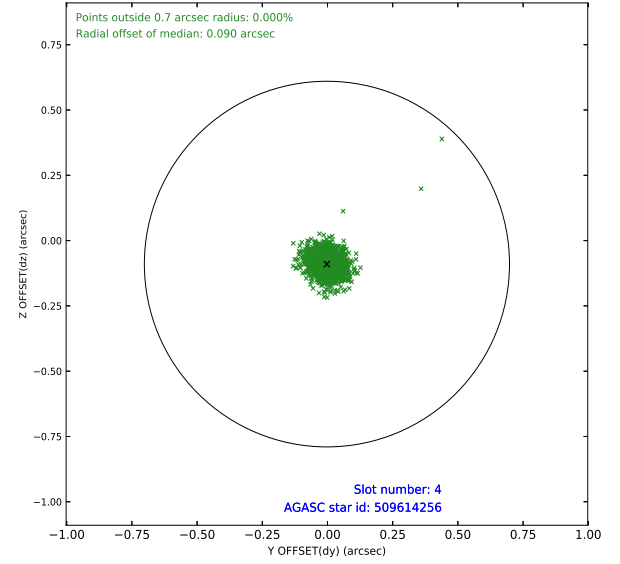
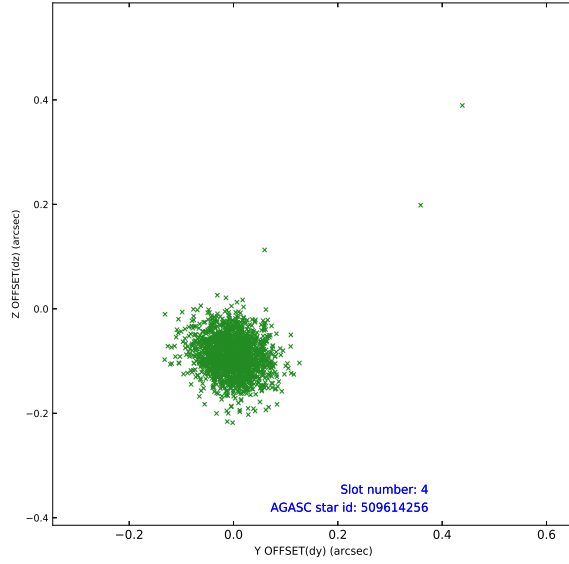


## 2.4 Star Slots

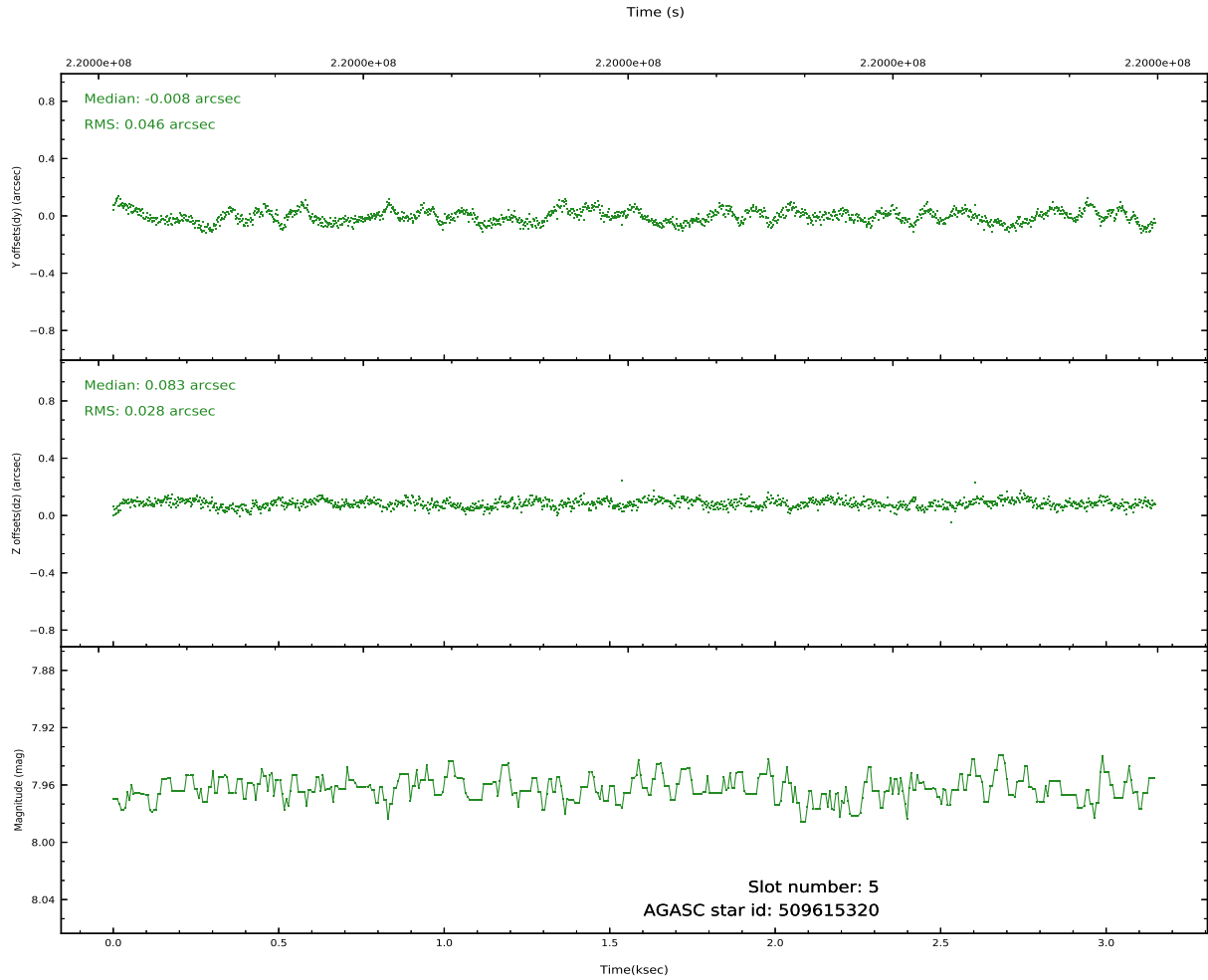
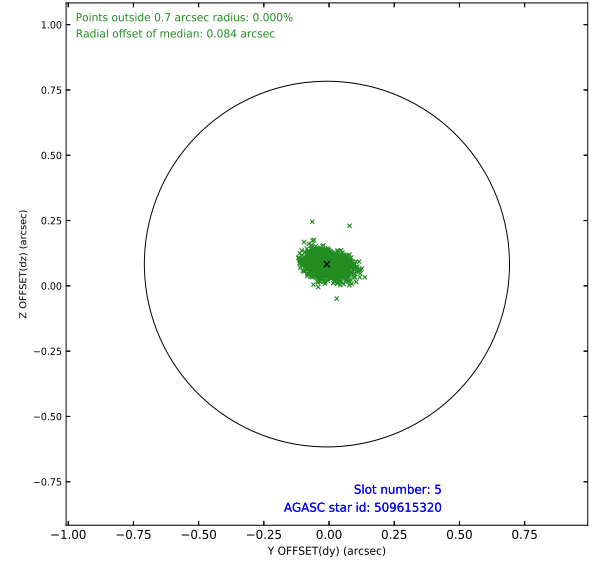
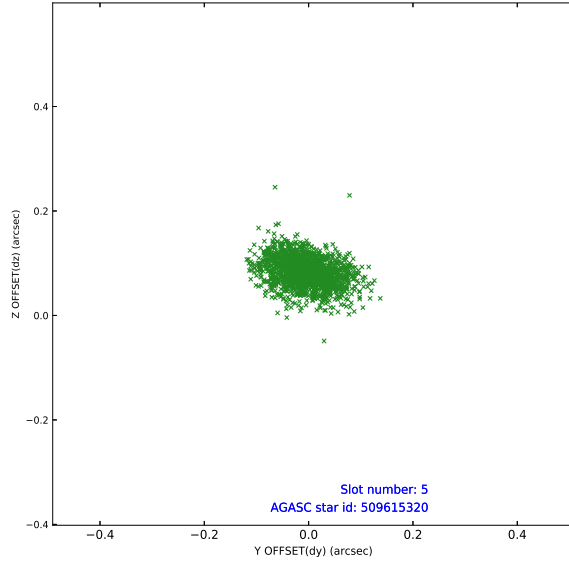
### 2.4.1 Slot 3



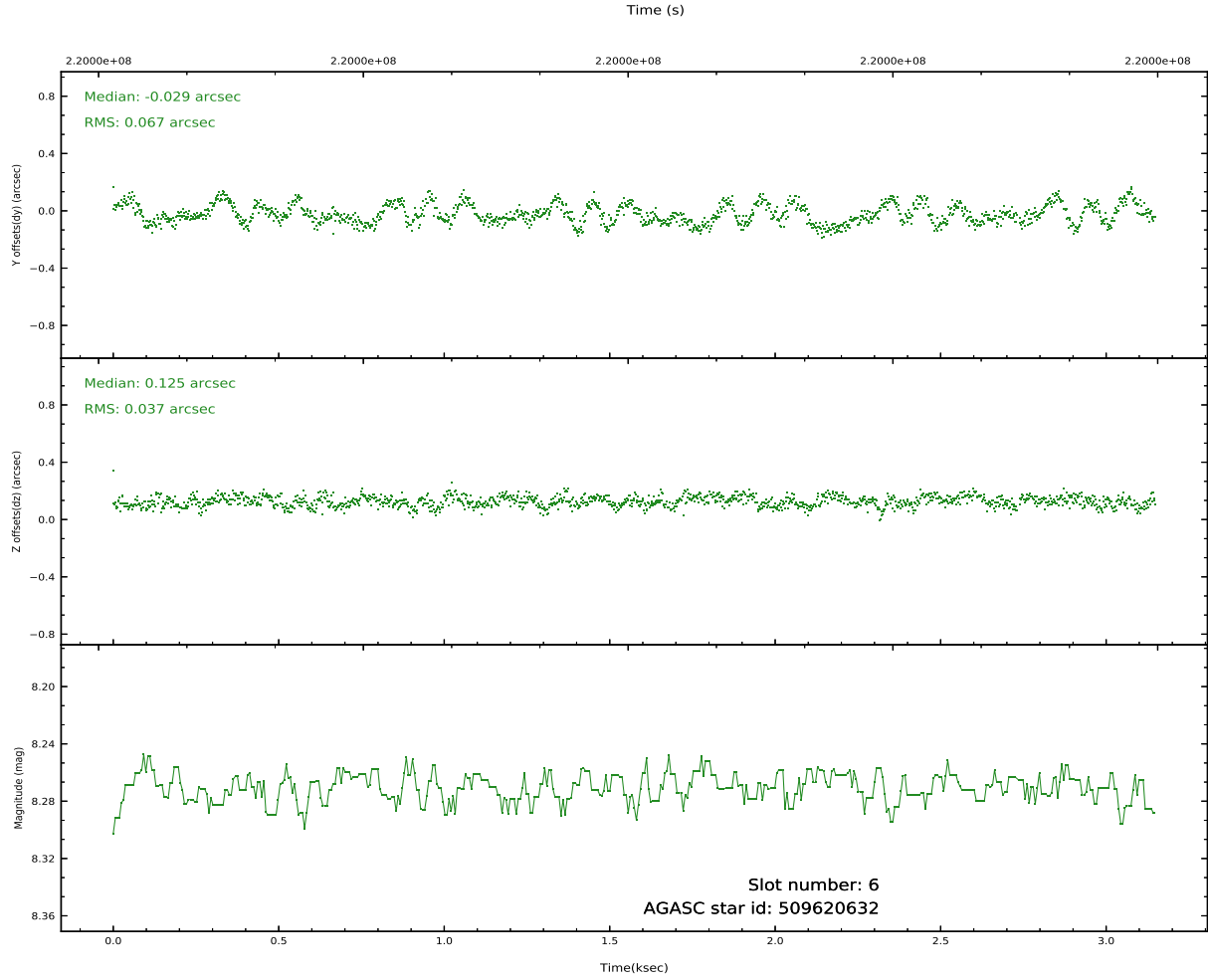
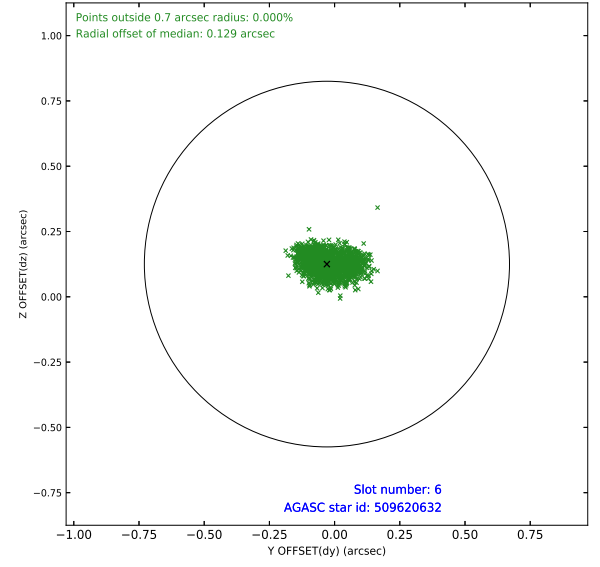
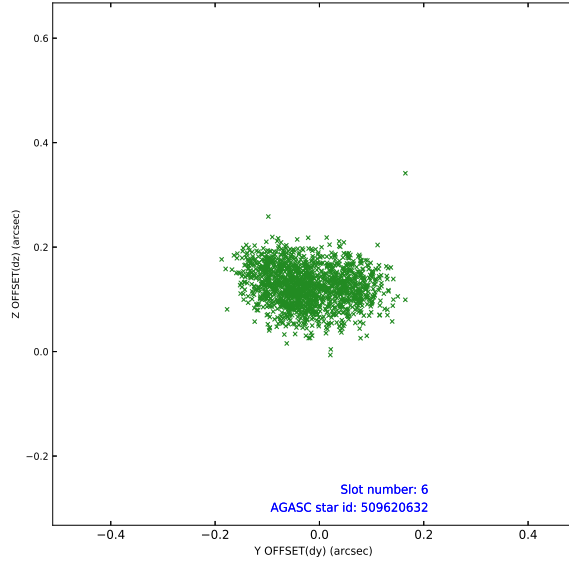
## 2.4.2 Slot 4



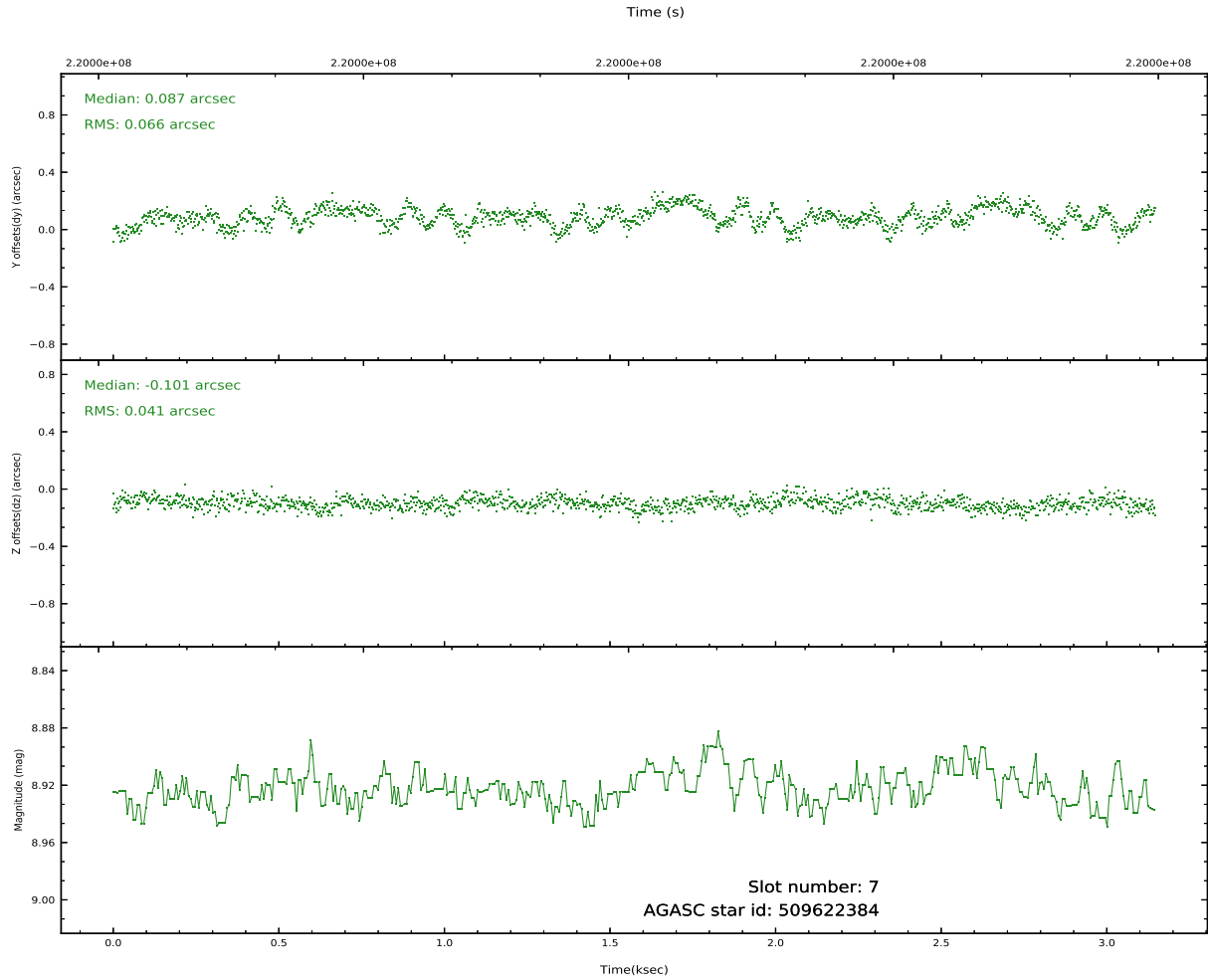
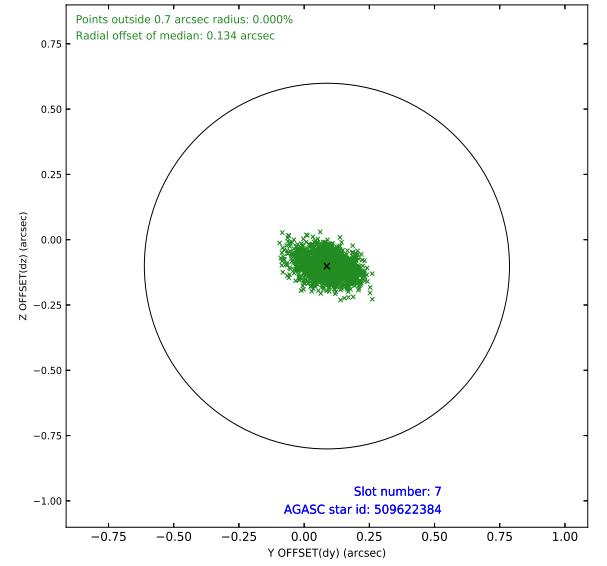
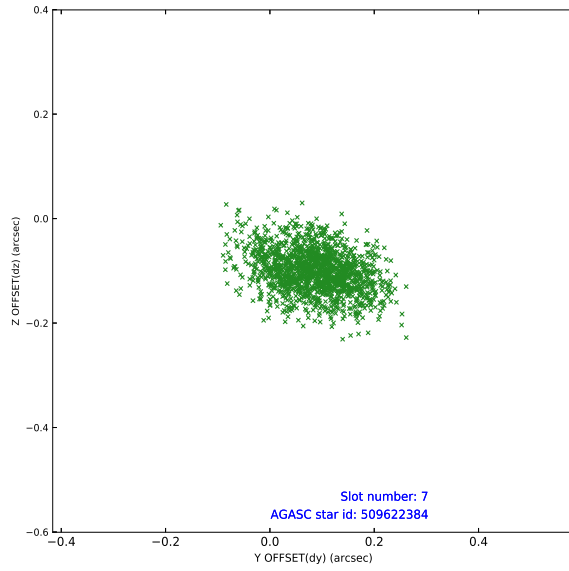
### 2.4.3 Slot 5



## 2.4.4 Slot 6

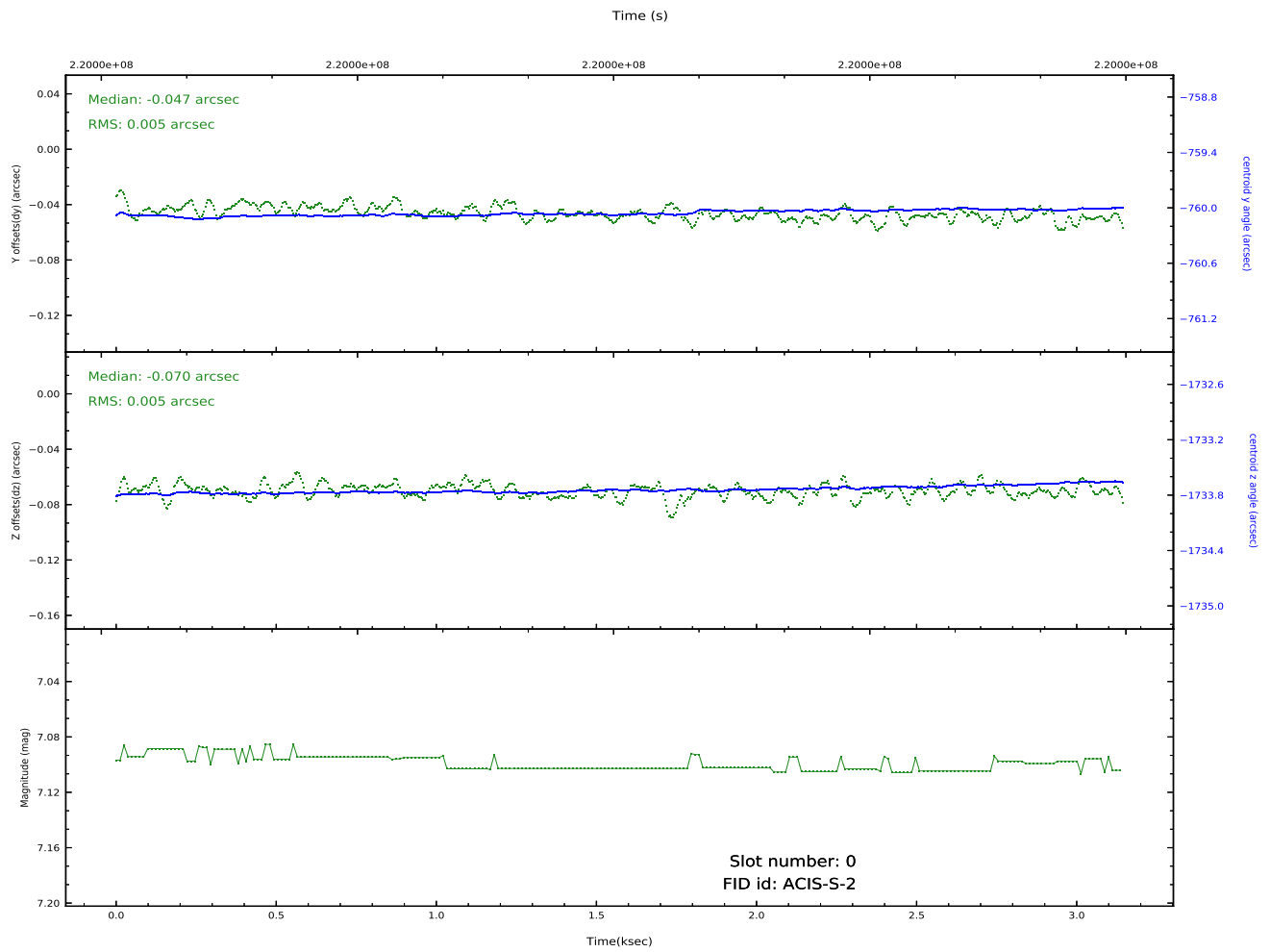
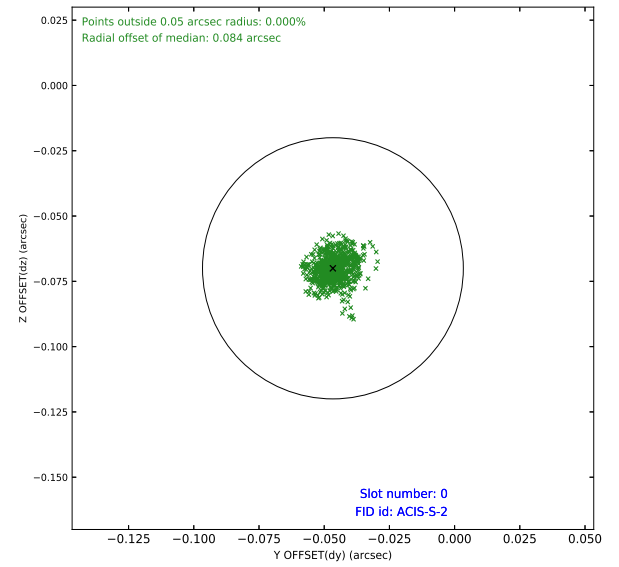
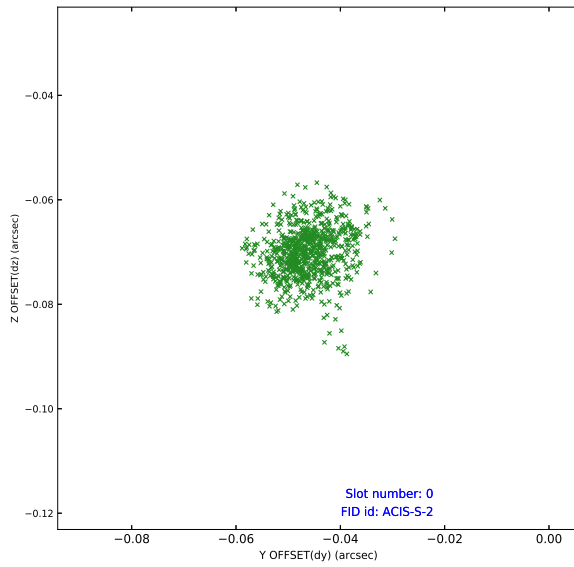


## 2.4.5 Slot 7

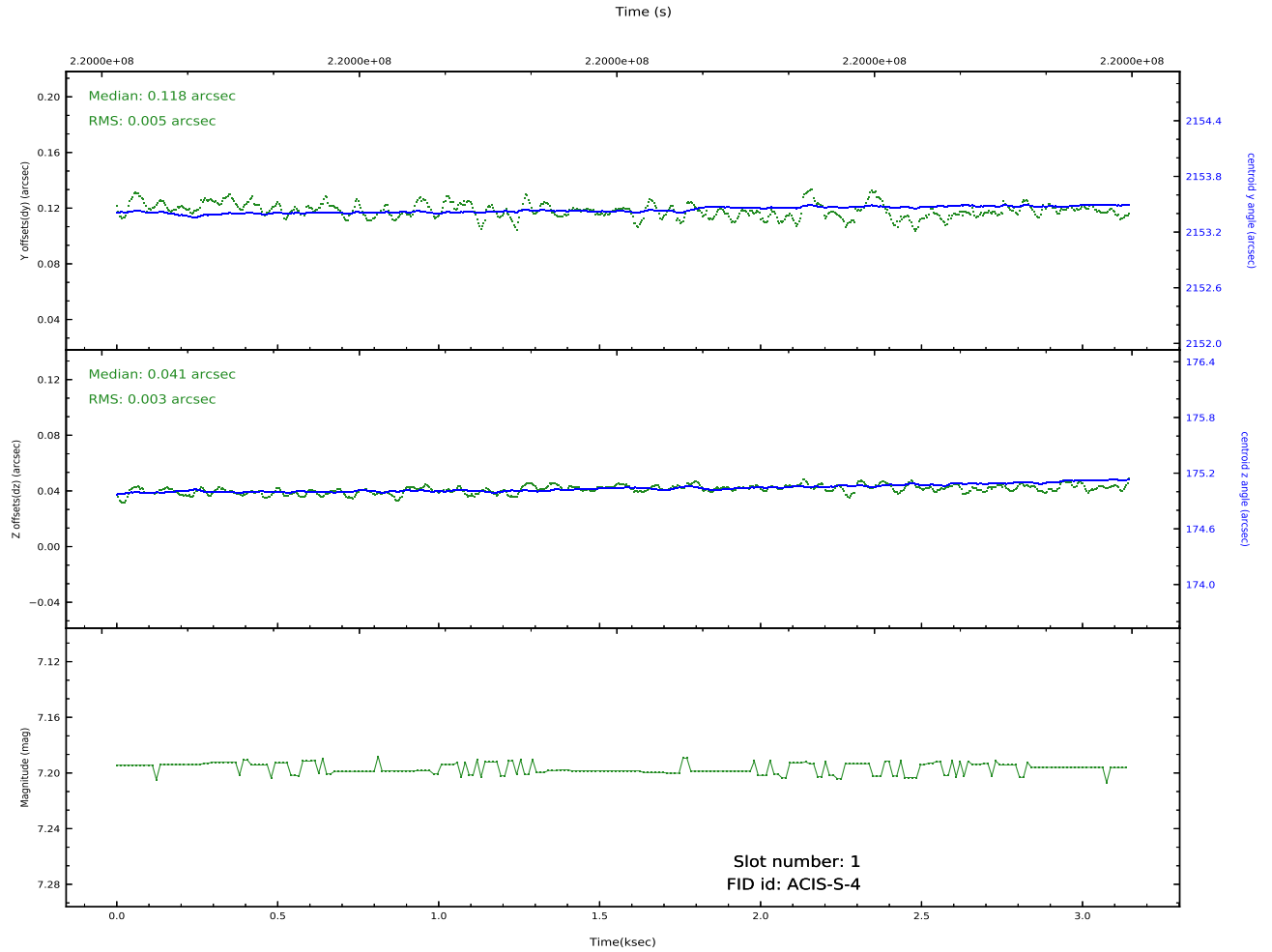
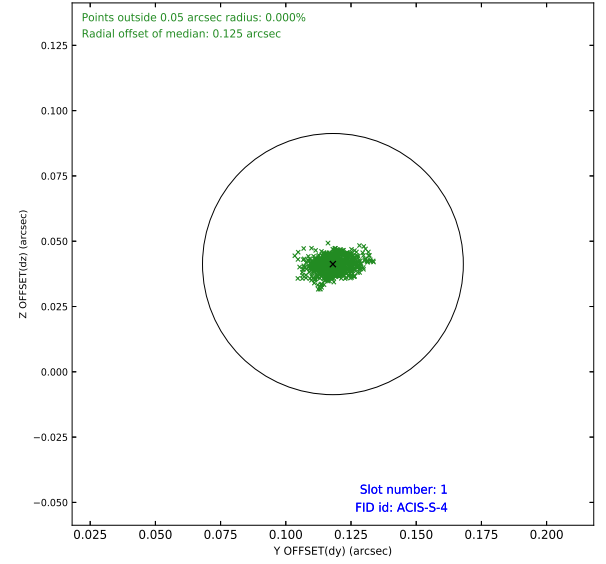
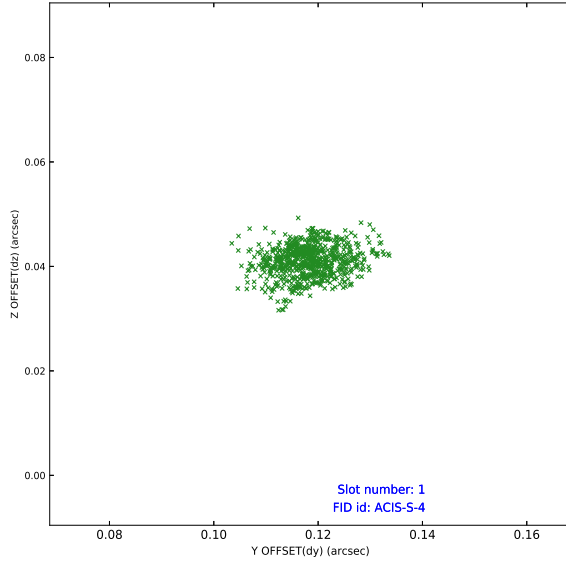


## 2.5 FID Slots

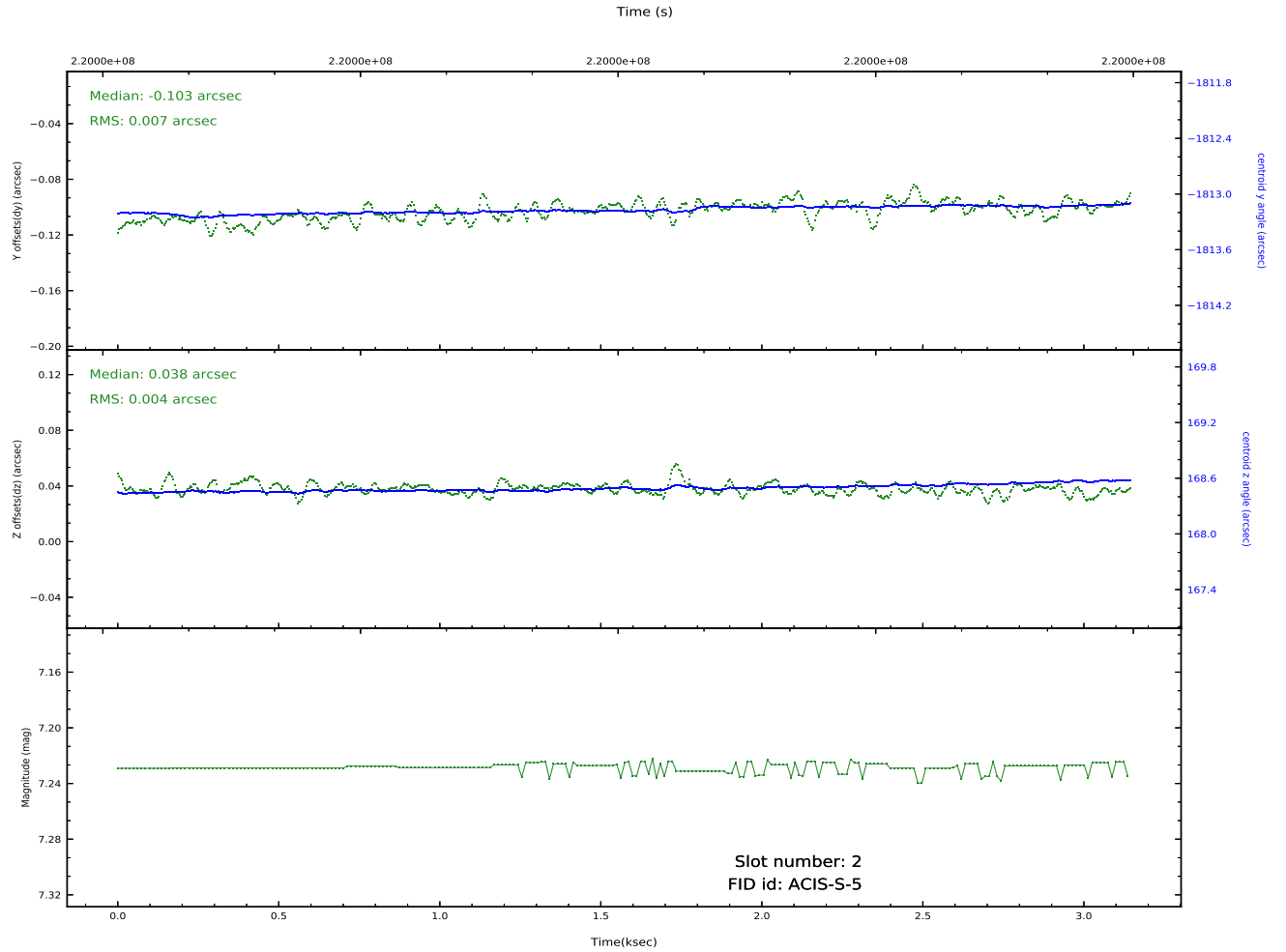
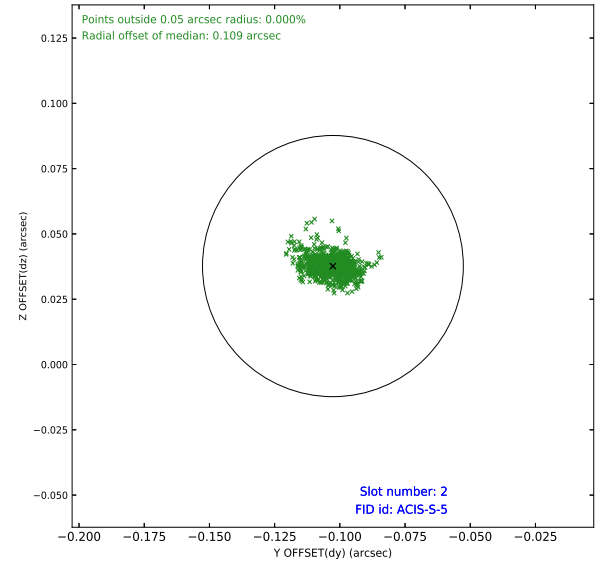
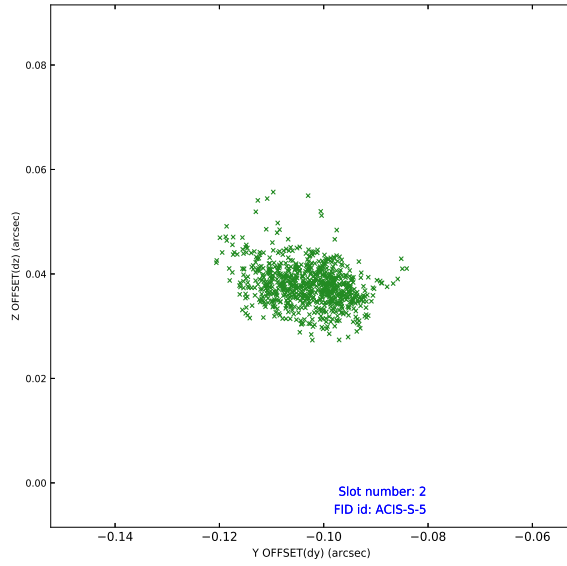
### 2.5.1 Slot 0



## 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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.148

### **A.2 Comments**