

# V&V Reference Report

## L2 ASCDS Version : 10.6.4.1

Observation 21863 - L2 Version 1  
Chandra X-Ray Center

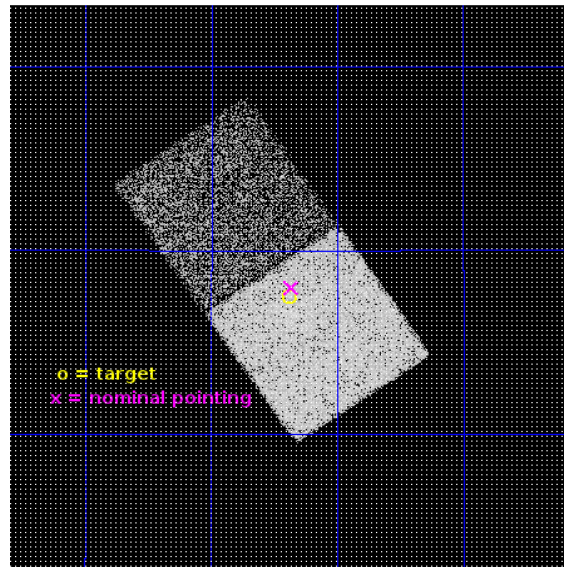
L2 Processing Date : Oct 4 2018

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# 1 Front

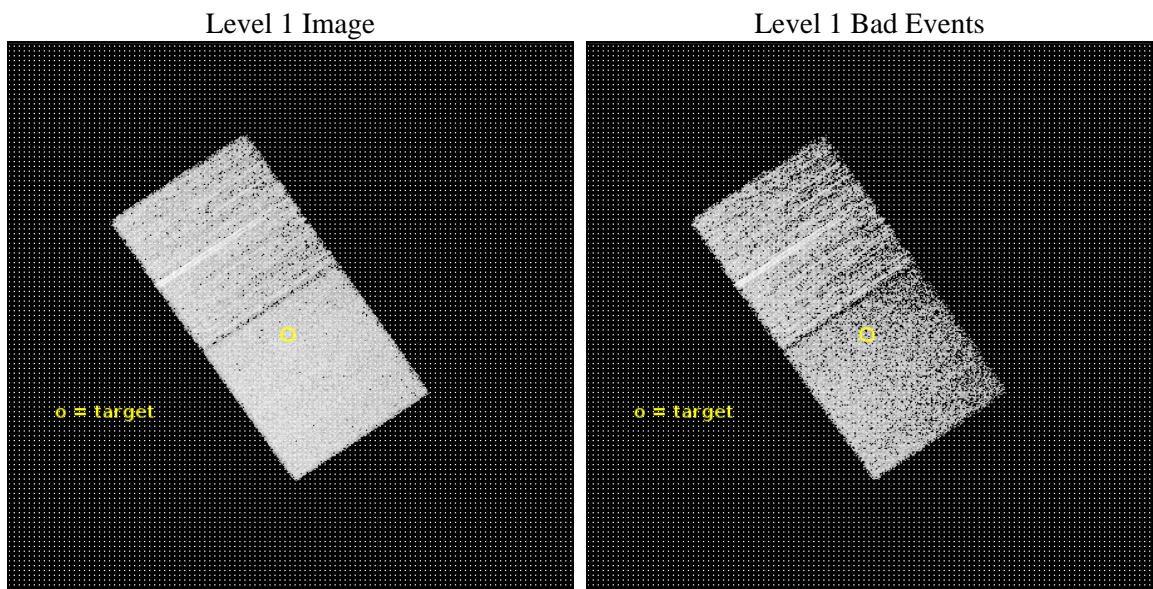
seq_num	703549	Sequence number
obs_id	21863	Observation id
title	Do the outflow properties in the most luminous quasars correlate with X-ray radiative output and host dynamical state?	Proposal title
observer	Luca Zappacosta	Principal investigator
object	SDSS J0958+2827	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.671667	Observer's specified target RA [deg]
dec_targ	28.458194	Observer's specified target Dec [deg]
ra_nom	149.67038316368	Nominal RA [deg]
dec_nom	28.466147418654	Nominal Dec [deg]
roll_nom	55.657263020827	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11232.0	Sum of GTIs [s]
livetime	11080.419856365	Livetime [s]
ontime6	11232.0	Sum of GTIs [s]
ontime7	11232.0	Sum of GTIs [s]
l2events	54736	Number of level 2 events



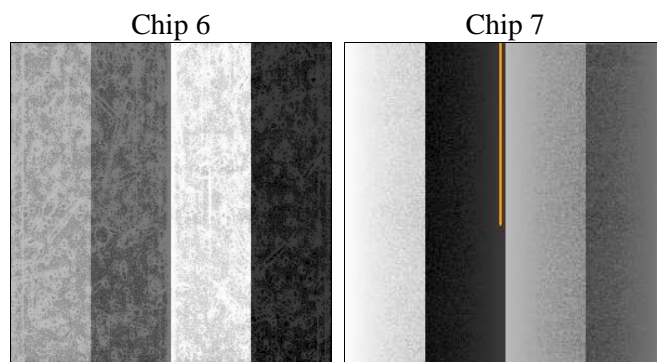
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11150.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	11232.0	Sum of GTIs [s]
caldsver	4.8.0	&#160	ontime6	11232.0	Sum of GTIs [s]
date	2018-10-04T05:22:26	Date and time of file creation	ontime7	11232.0	Sum of GTIs [s]
revision	1	Processing version of data	l1events	192472	Number of level 1 events

### 2.1.4 Events

	<b>ccd 6</b>	<b>ccd 7</b>
level 1 events	84902	107570
rejected events	75089	60146
rejected %	88%	55%

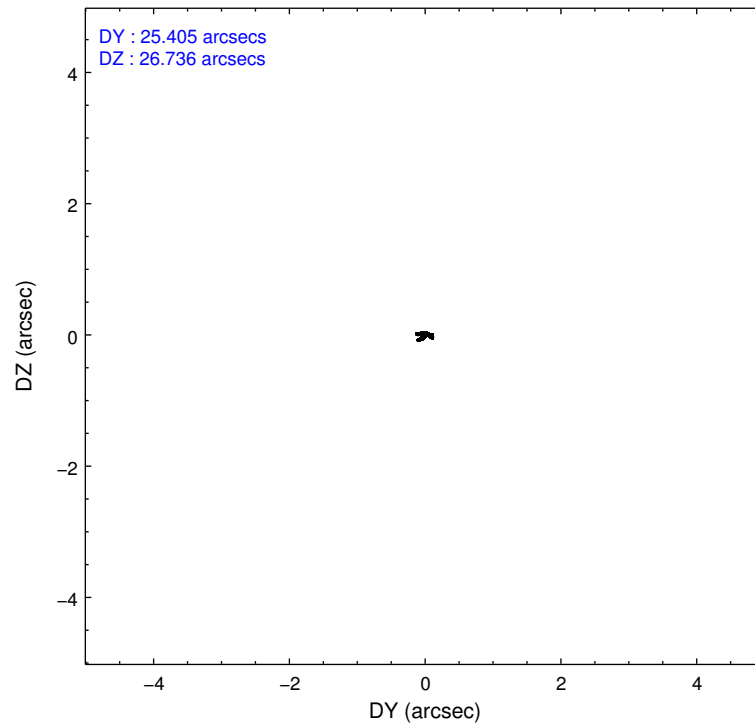
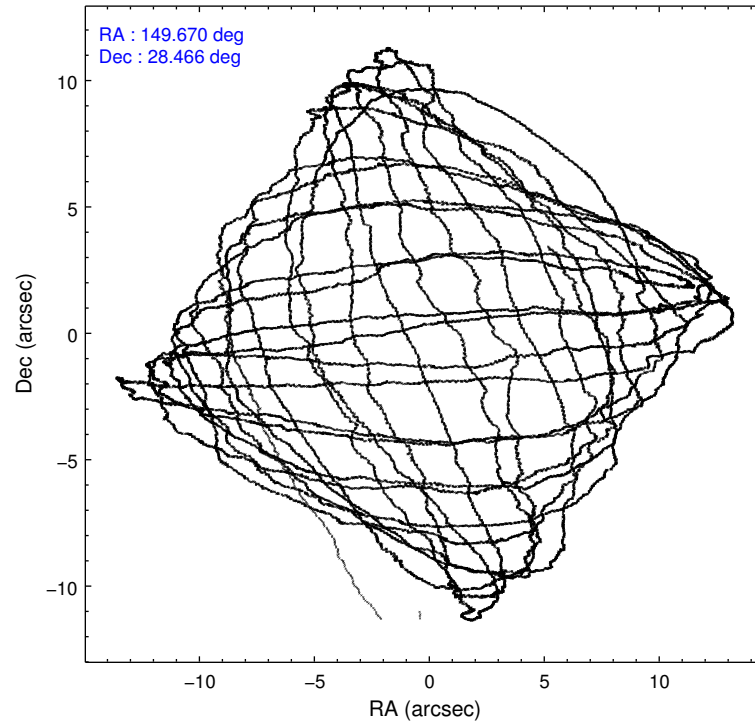
	<b>ccd 6</b>	<b>ccd 7</b>
grade 0 events	3271	3998
	3%	3%
grade 1 events	39	152
	0%	0%
grade 2 events	2344	10348
	2%	9%
grade 3 events	972	3812
	1%	3%
grade 4 events	982	3714
	1%	3%
grade 5 events	4005	10638
	4%	9%
grade 6 events	2247	25565
	2%	23%
grade 7 events	71042	49343
	83%	45%

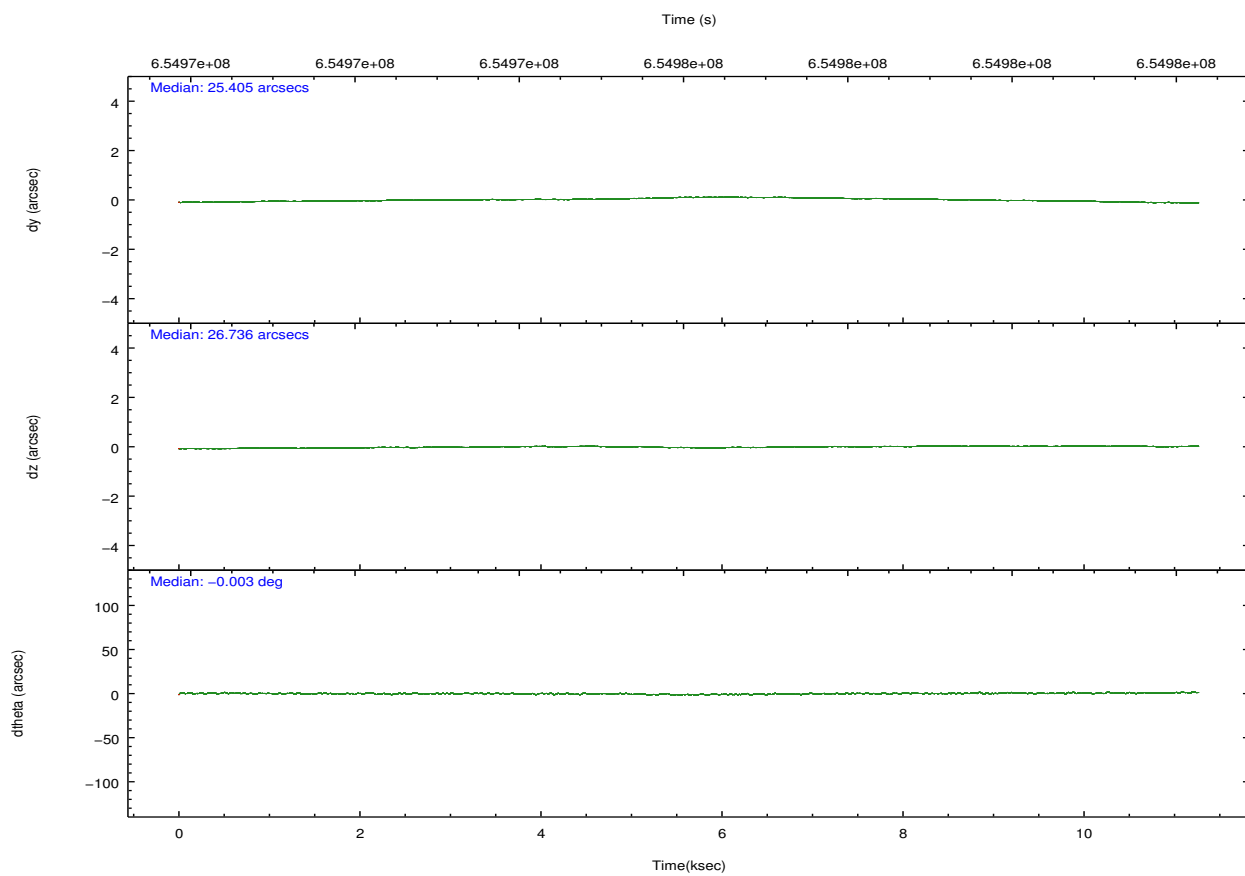
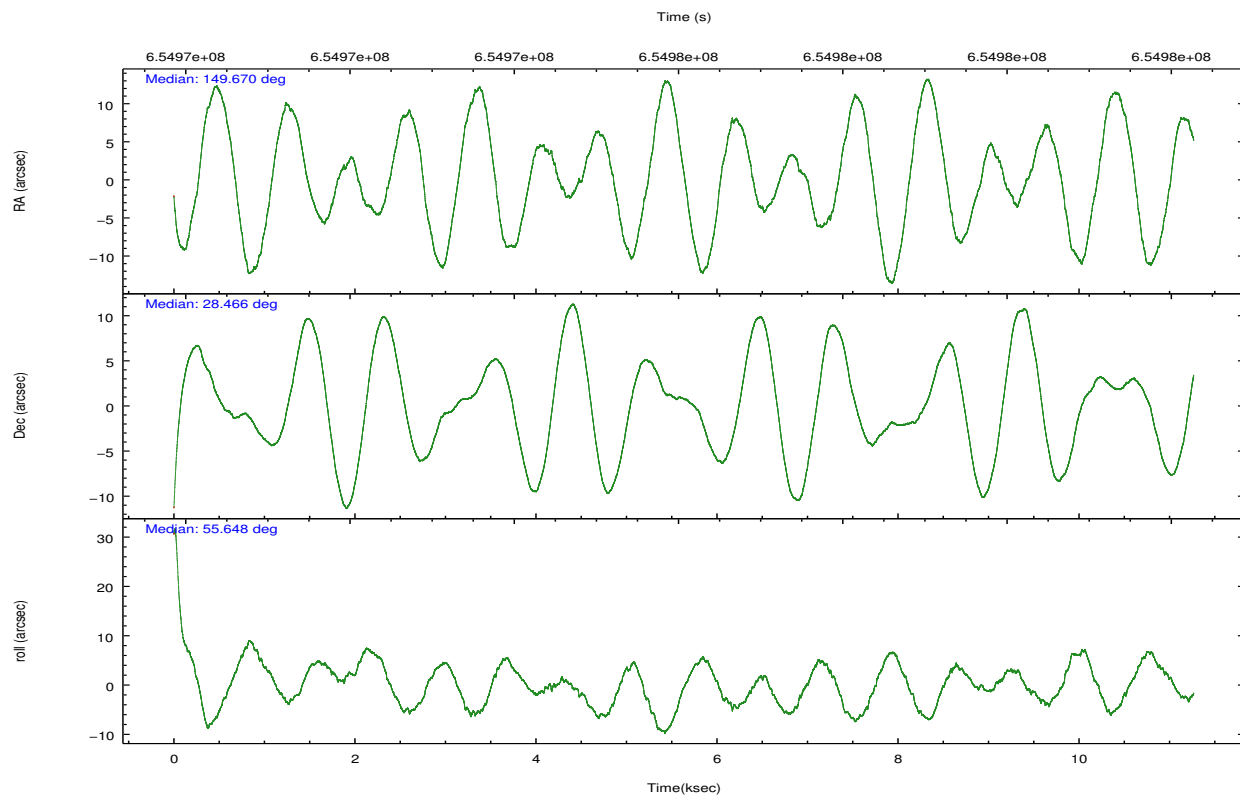


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	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	149.668434	149.6703831636812	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.438760	28.46614741865412	Alternating exposures requested	N	N
[deg] Pointing Roll	55.501540	55.65726302082655	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	654970565.184000	654969427.06012			
Observation start date	2018-10-03T16:14:56	2018-10-03T15:57:07			
[s] Observation end time (MET)	654981715.184000	654982828.42342			
Observation end date	2018-10-03T19:20:46	2018-10-03T19:40:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



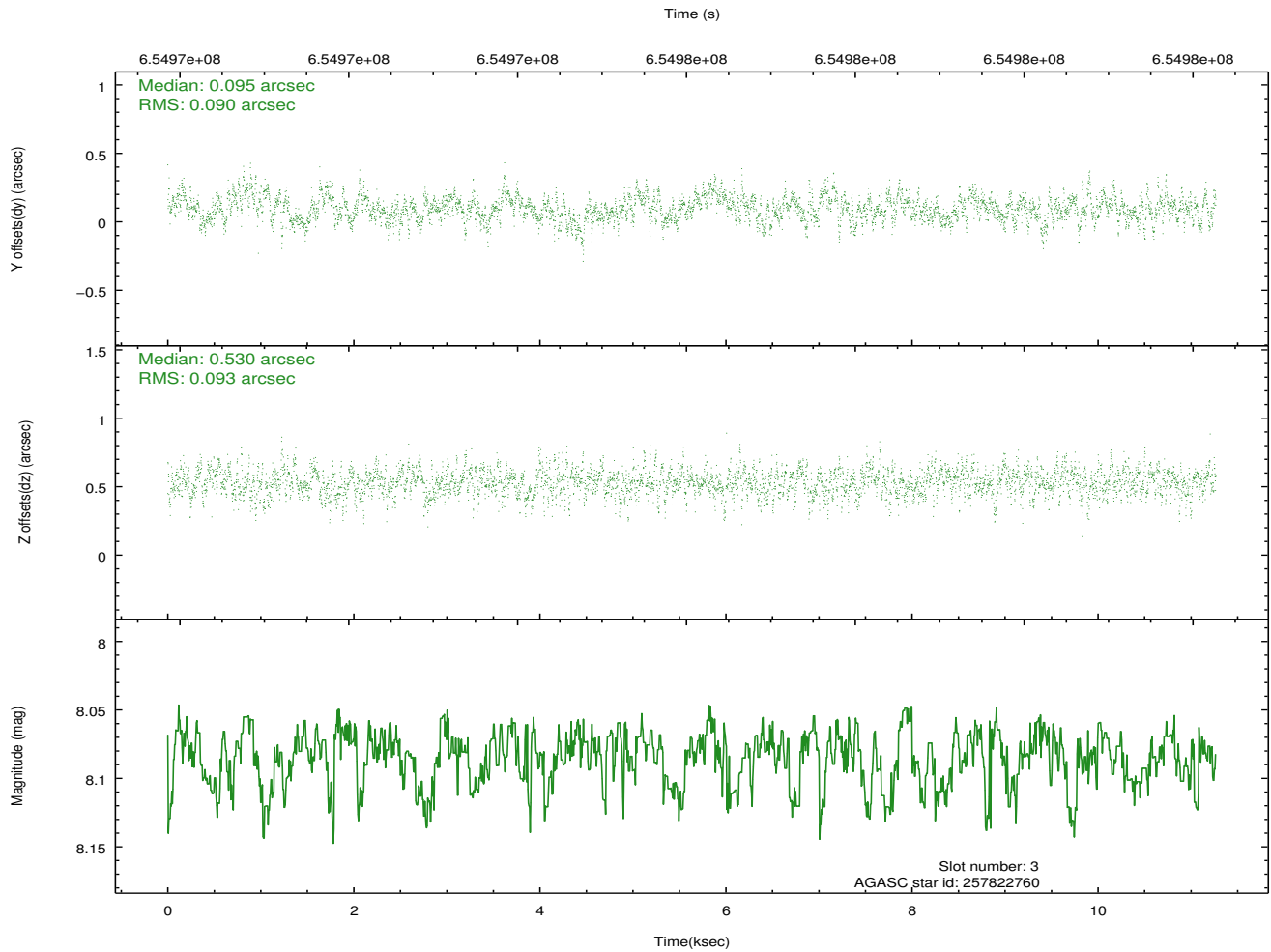
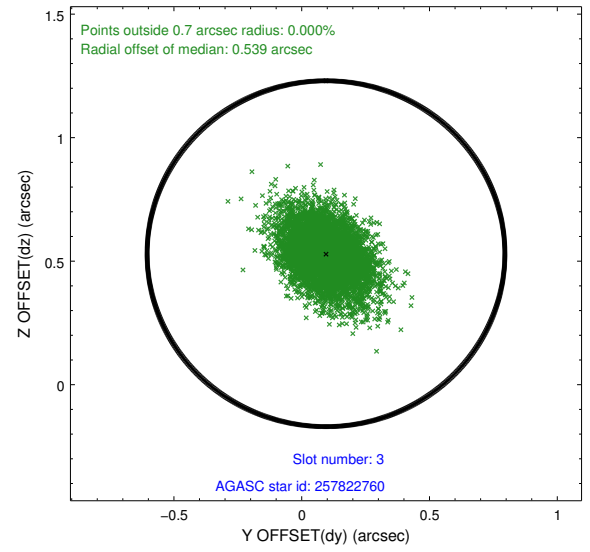
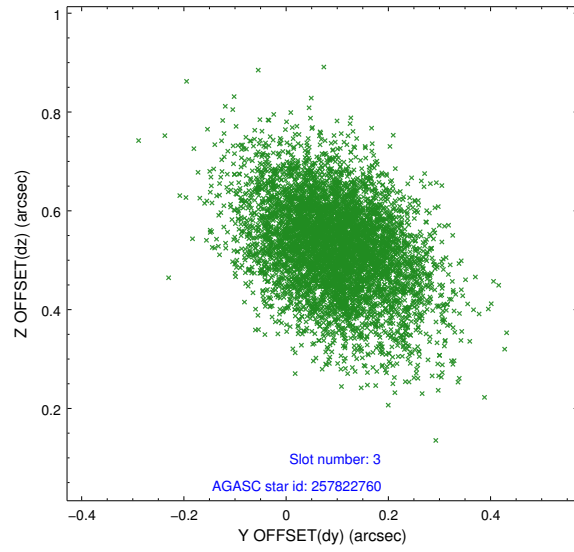


Slot Statistics

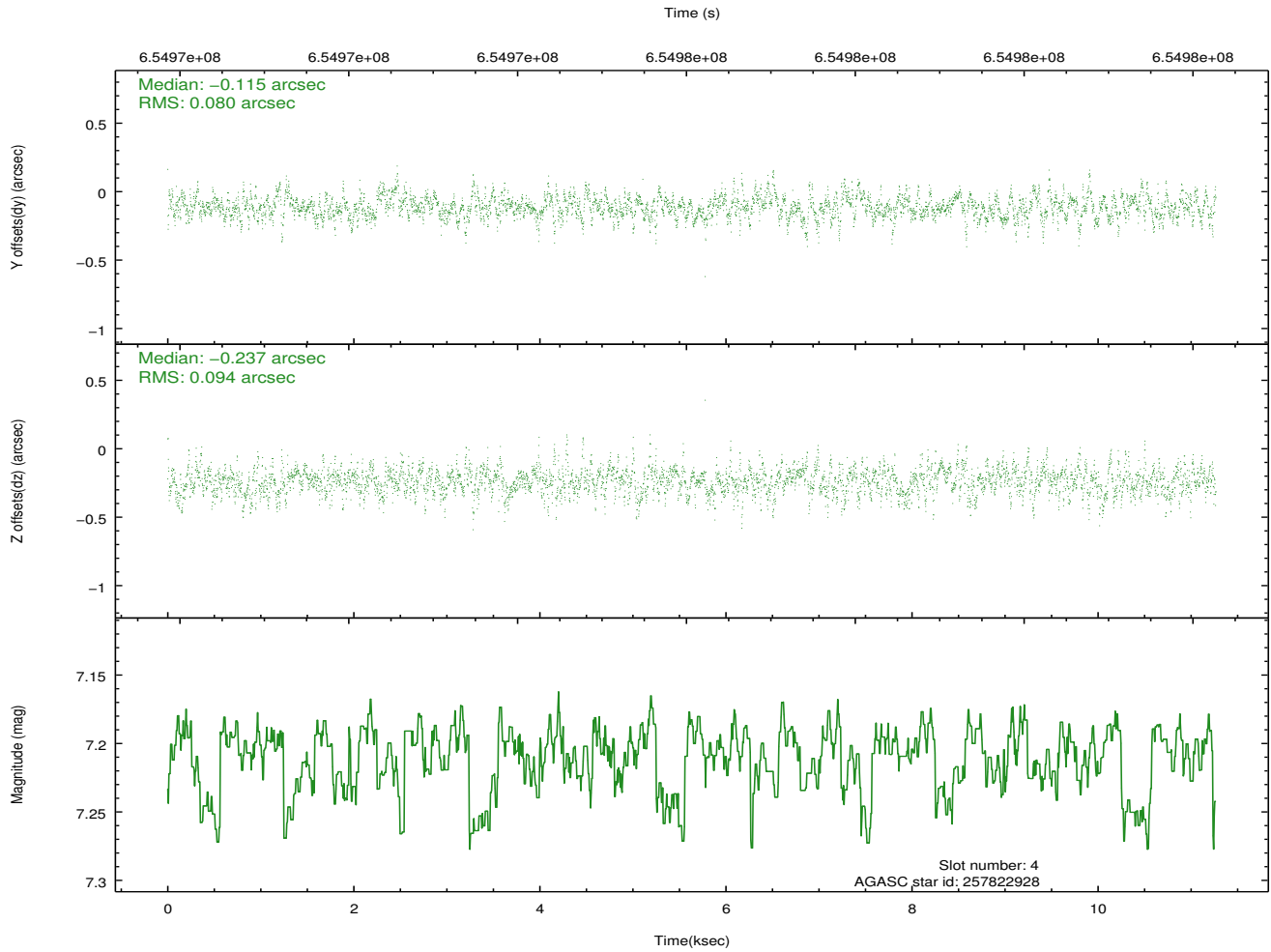
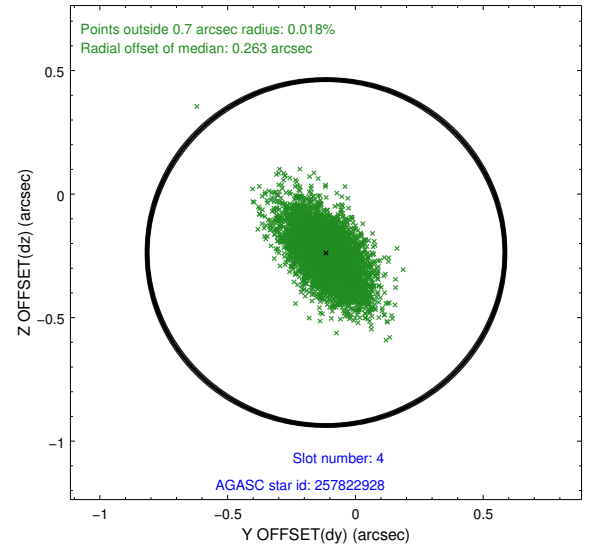
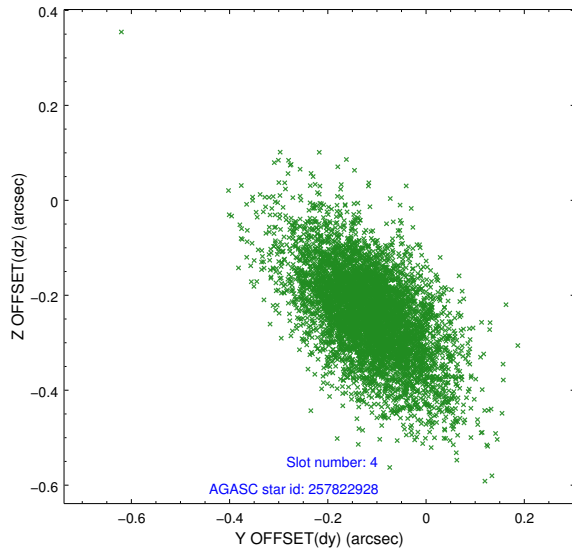
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.05	2749	1.000	0.167	0.076	0.007	0.012	0.000000	0.000000	917.45	-1743
1	FID		ACIS-S-2	6.96	2748	1.000	-0.268	-0.160	0.006	0.010	0.000000	0.000000	-778.64	-1749
2	FID		ACIS-S-6	7.21	2749	1.000	0.081	0.089	0.007	0.011	0.000000	0.000000	382.94	796
3	GUIDE	used	257822760	8.08	5496	1.000	0.095	0.530	0.135	0.232	150.166199	28.173652	108.95	-1840
4	GUIDE	used	257822928	7.21	5497	1.000	-0.115	-0.237	0.124	0.232	149.311326	28.561285	-274.70	1181
5	GUIDE	used	257823520	8.38	5489	1.000	-0.012	0.354	0.156	0.269	150.413966	28.521916	1589.30	-1768
6	GUIDE	used	257825600	7.86	5494	1.000	0.266	0.101	0.131	0.229	149.230872	28.096317	-1801.10	447
7	GUIDE	used	257828304	8.61	5491	1.000	-0.236	-0.736	0.139	0.236	149.365873	29.172027	1637.05	2279

## 2.4 Star Slots

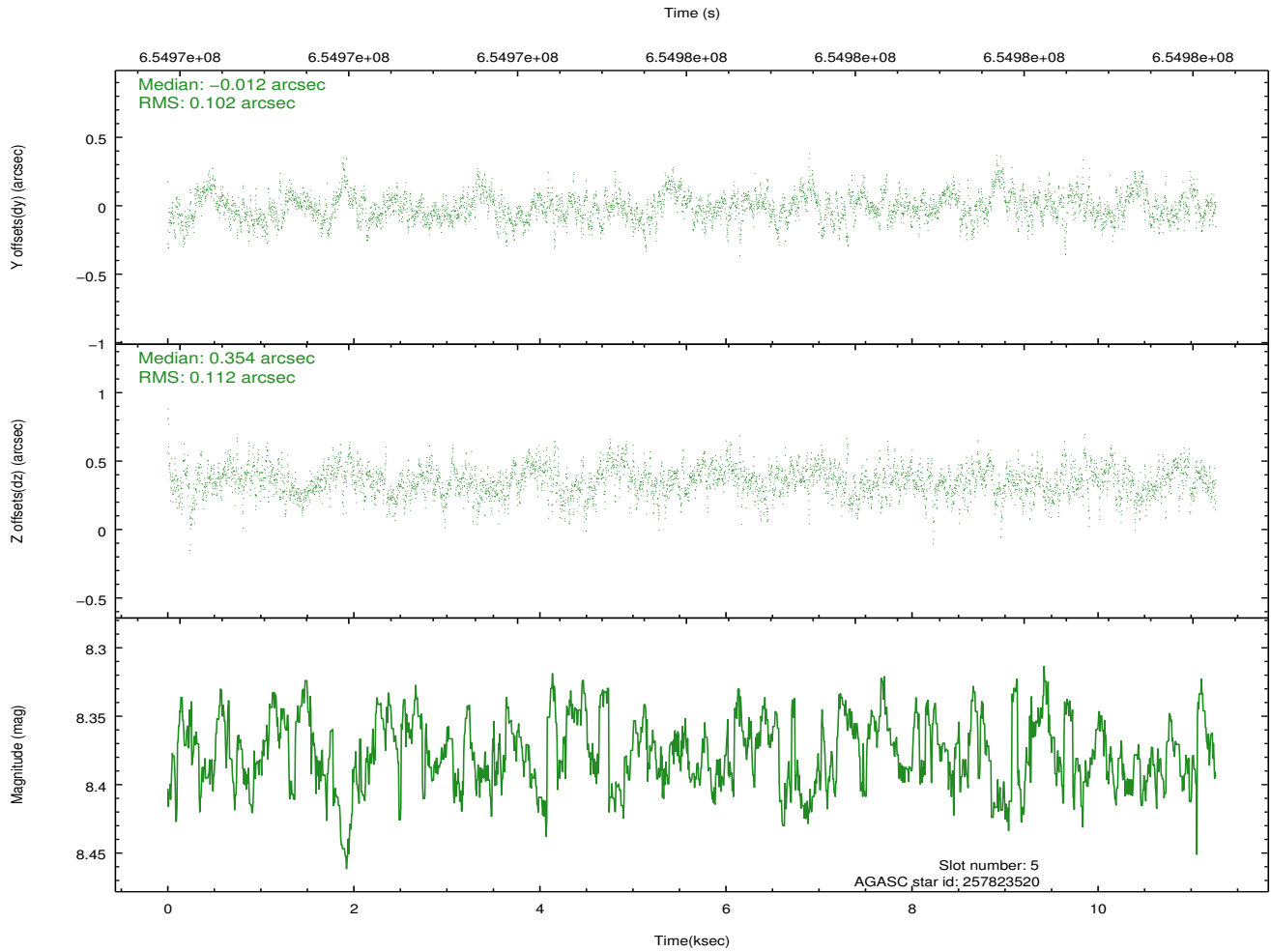
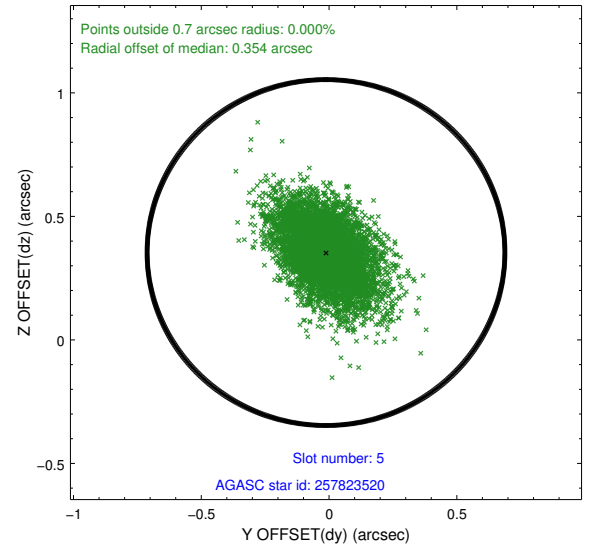
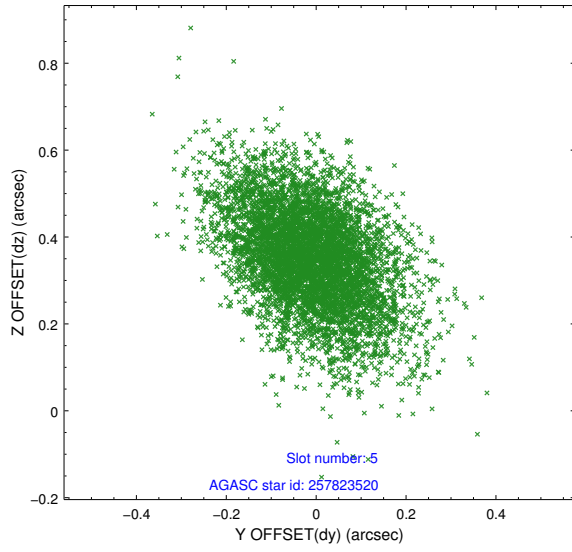
### 2.4.1 Slot 3



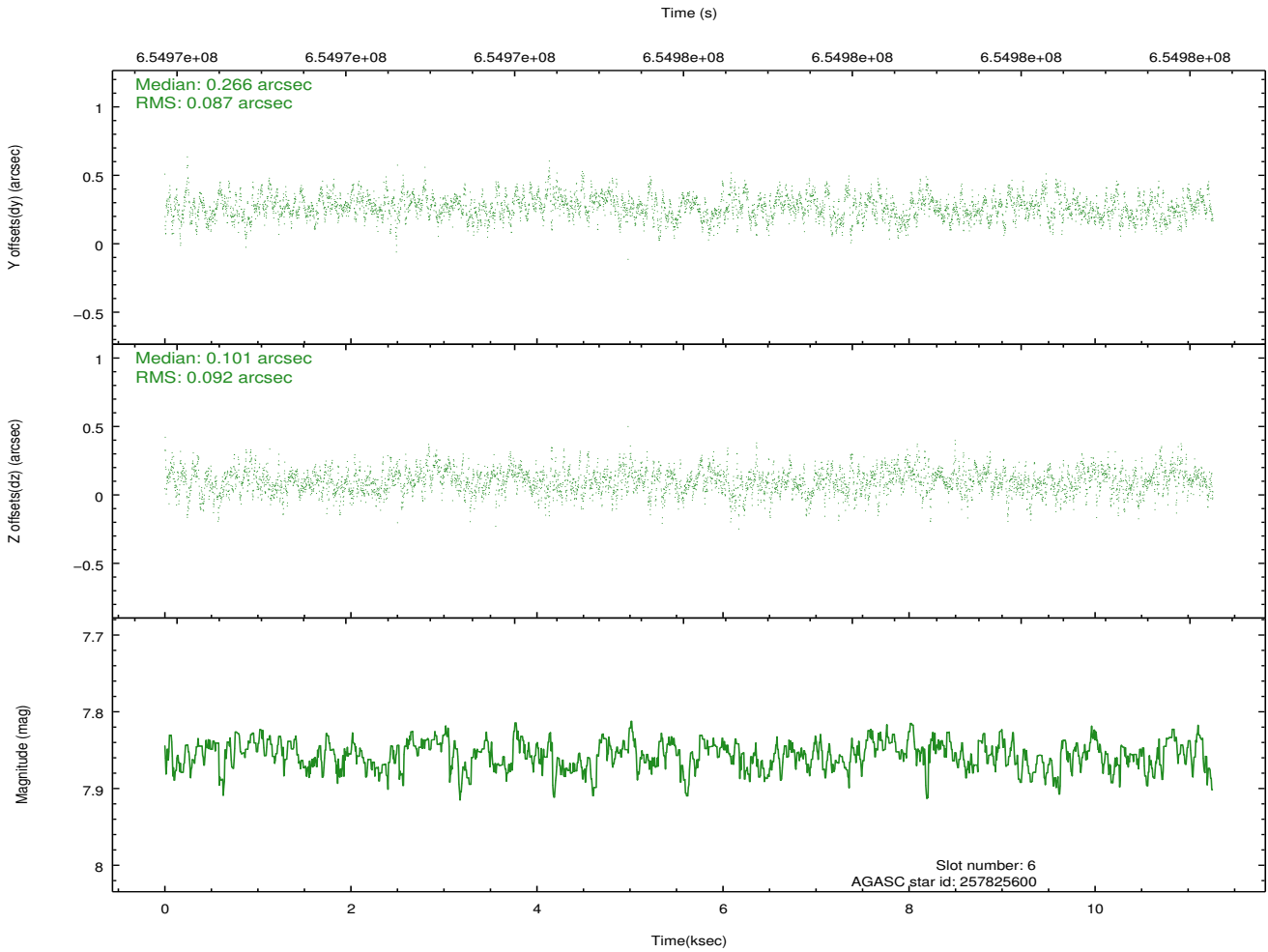
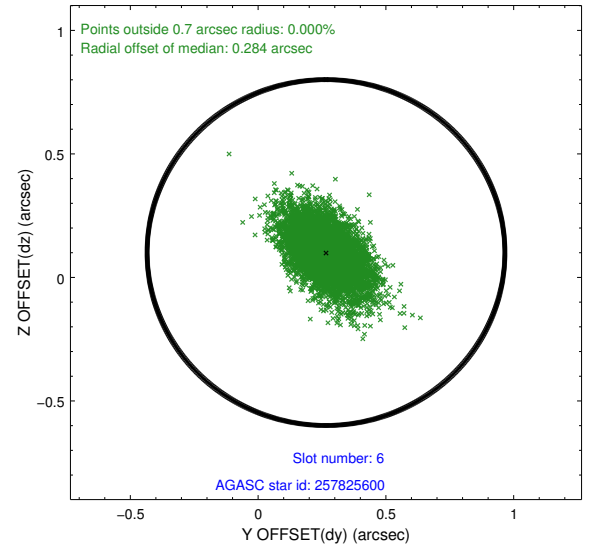
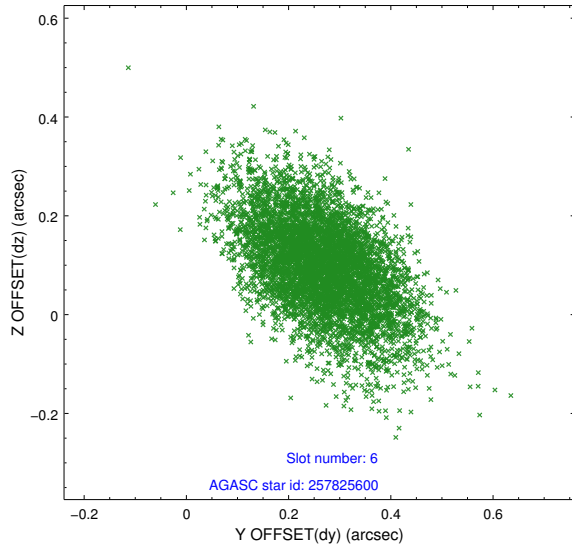
## 2.4.2 Slot 4



### 2.4.3 Slot 5

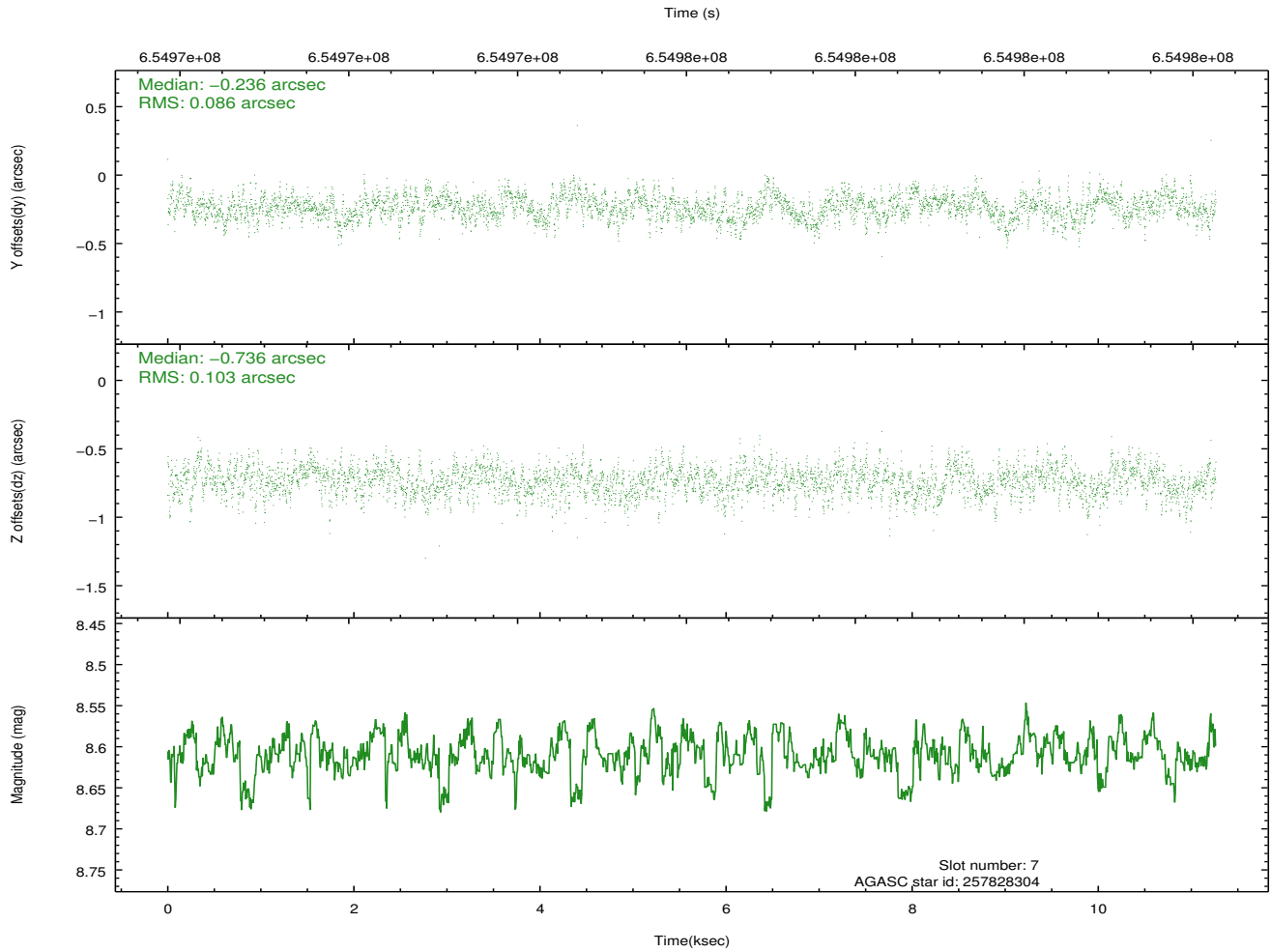
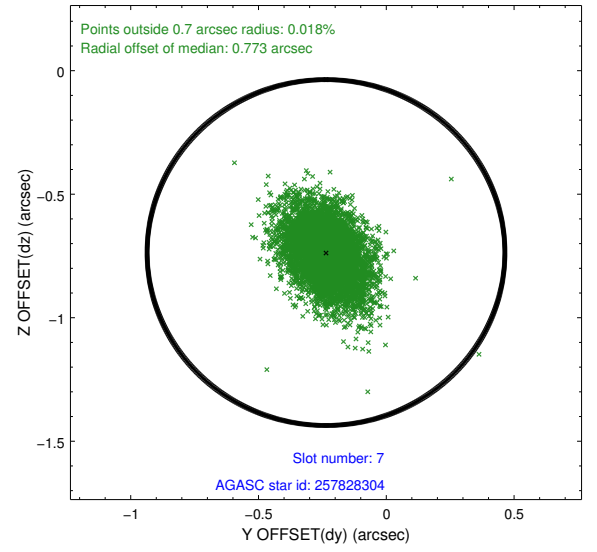
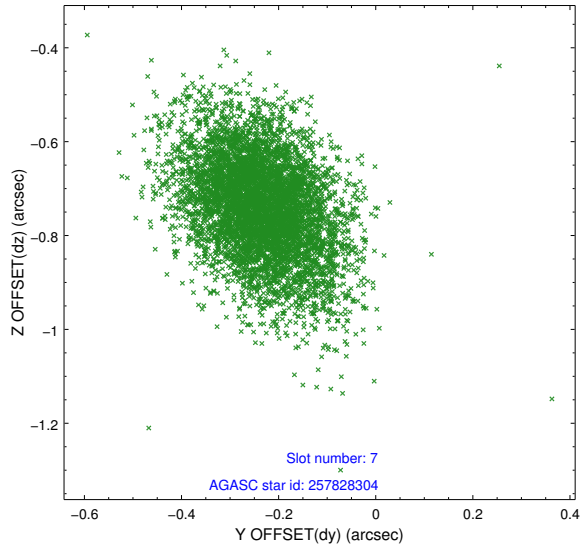


## 2.4.4 Slot 6



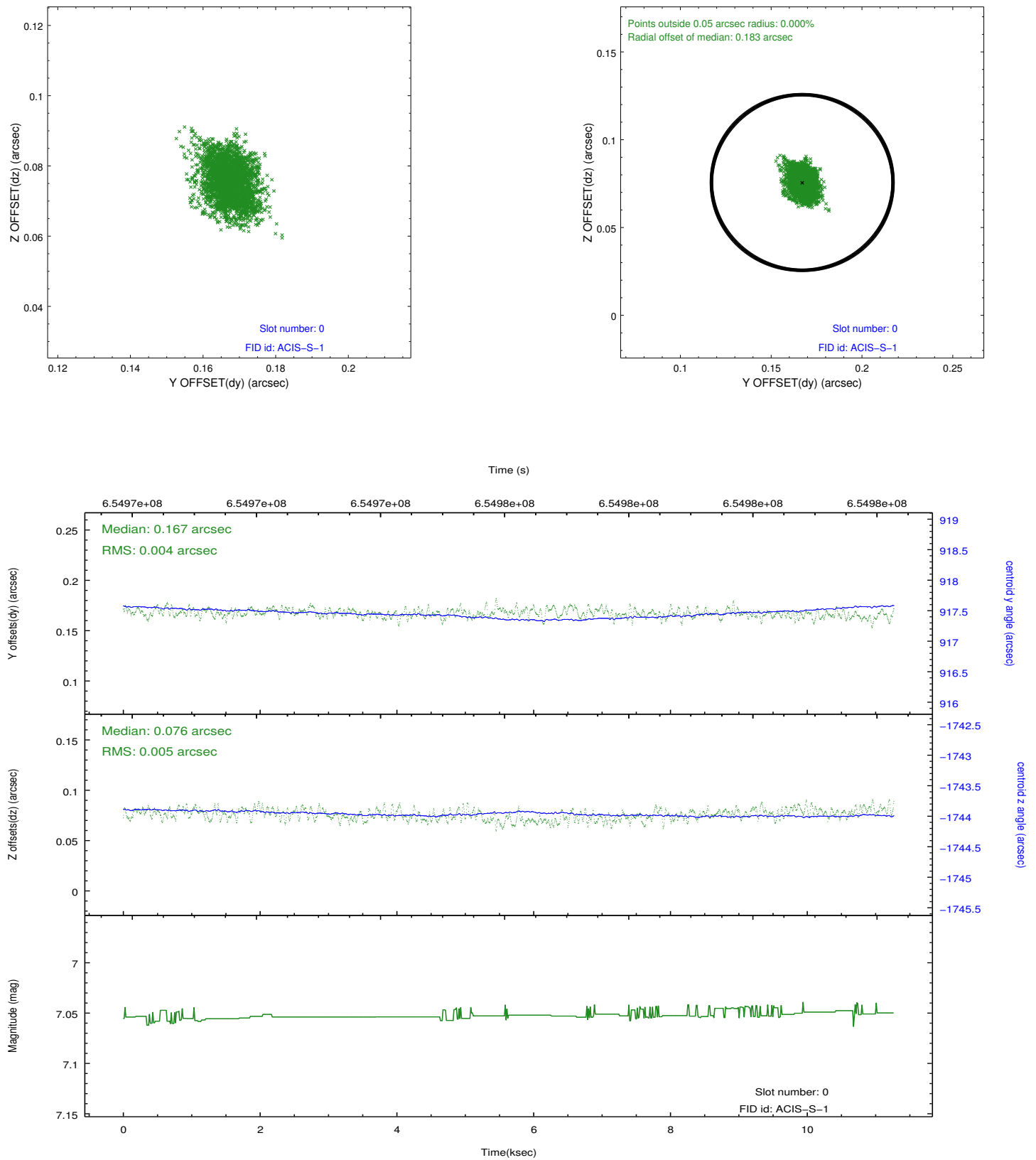


## 2.4.5 Slot 7

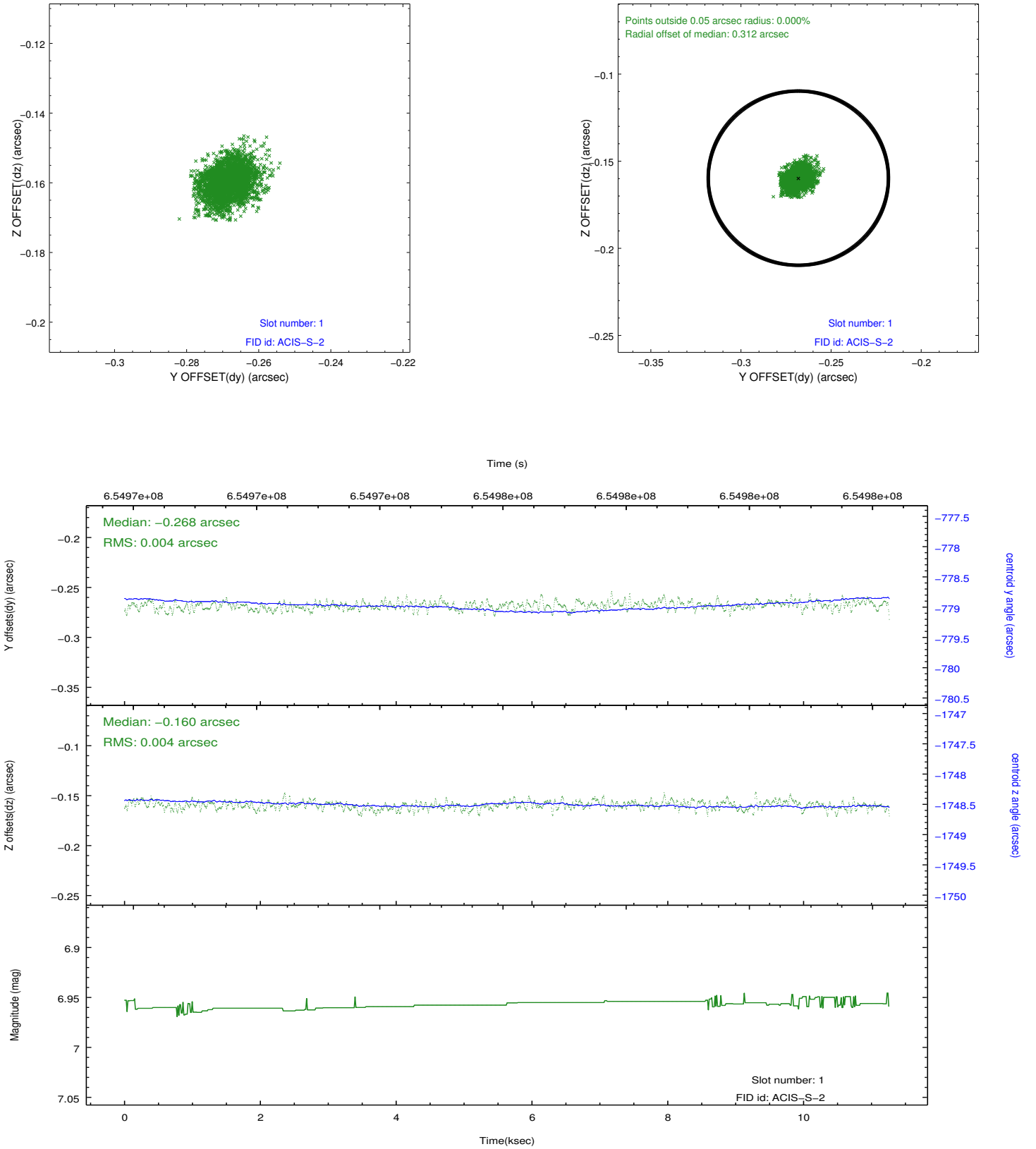


## 2.5 FID Slots

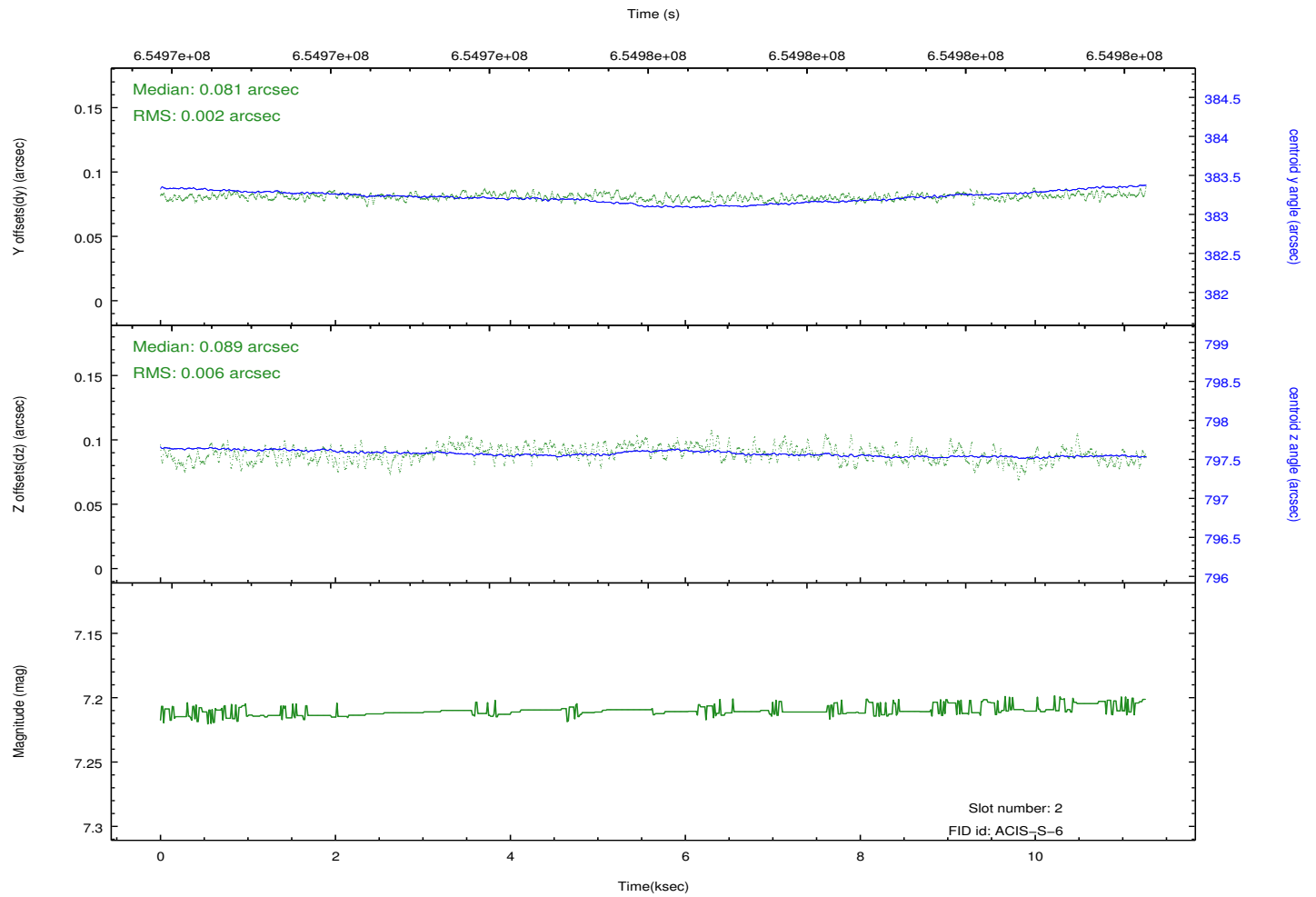
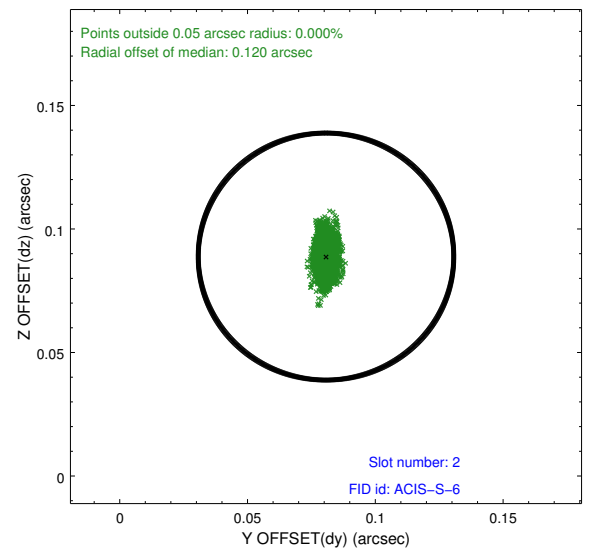
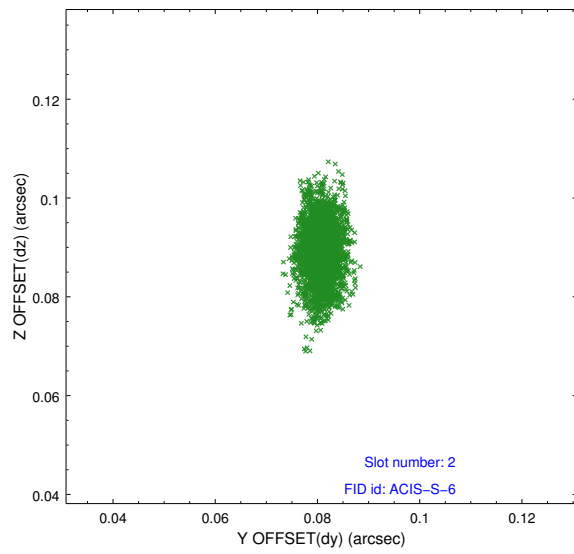
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.232

### A.2 Comments