

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18418 - L2 Version 1  
Chandra X-Ray Center

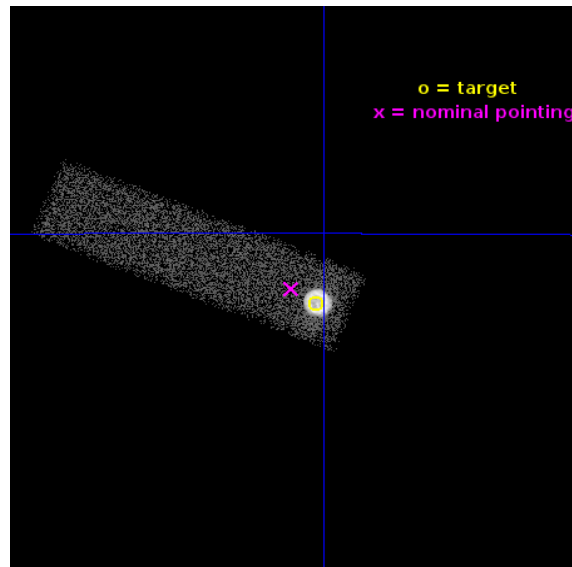
L2 Processing Date : Mar 16 2016

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# 1 Front

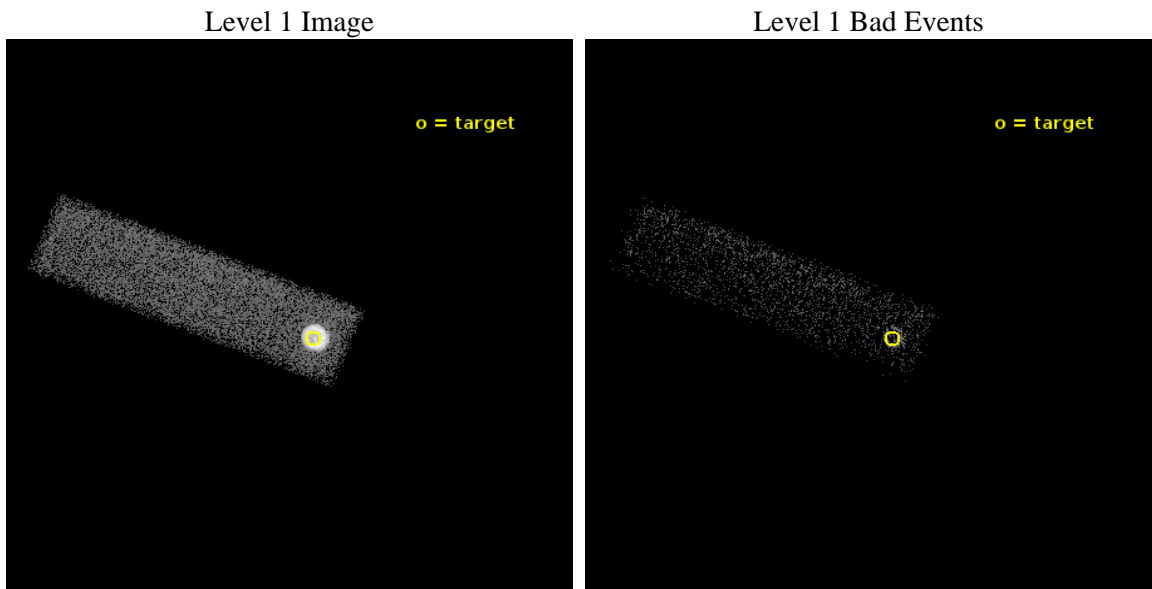
seq_num	590548	Sequence number
obs_id	18418	Observation id
title	AO-17 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,1,0,0	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.044937463971	Nominal RA [deg]
dec_nom	-72.025221056886	Nominal Dec [deg]
roll_nom	201.67867042642	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15060.799102306	Sum of GTIs [s]
livetime	14325.881387146	Livetime [s]
ontime7	15060.799102306	Sum of GTIs [s]
l2events	59746	Number of level 2 events



## 2 OBI

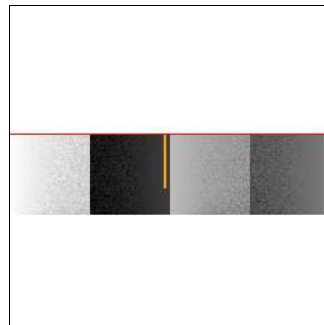
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	15060.799102306	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime7	15060.799102306	Sum of GTIs [s]
date	2016-03-16T12:09:18	Date and time of file creation	l1events	72408	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

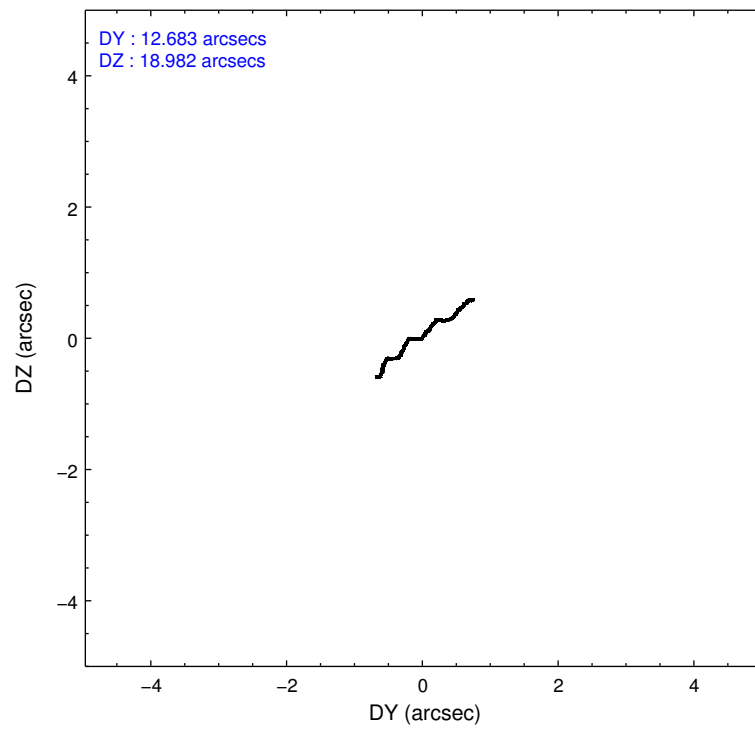
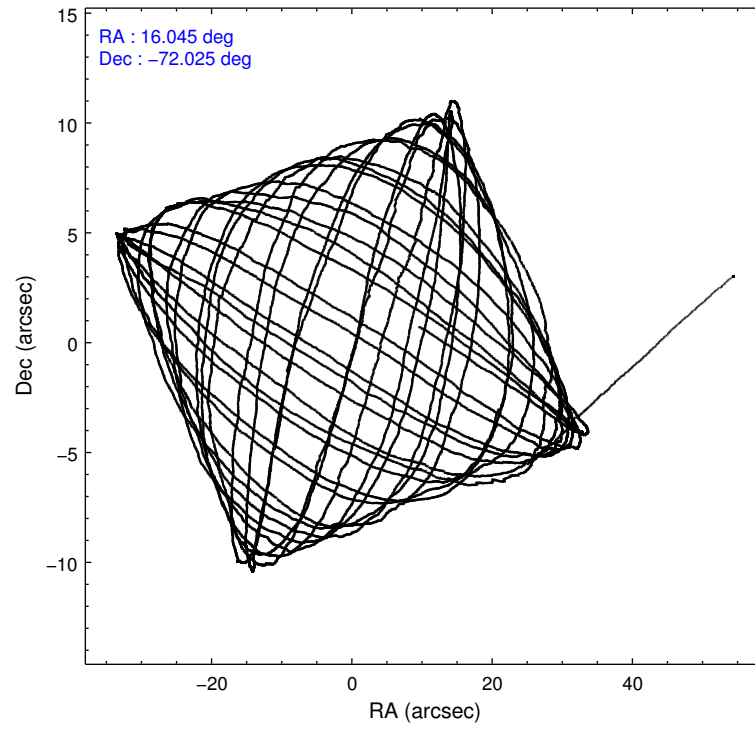
	<b>ccd 7</b>
level 1 events	72408
rejected events	12198
rejected %	<b>16%</b>

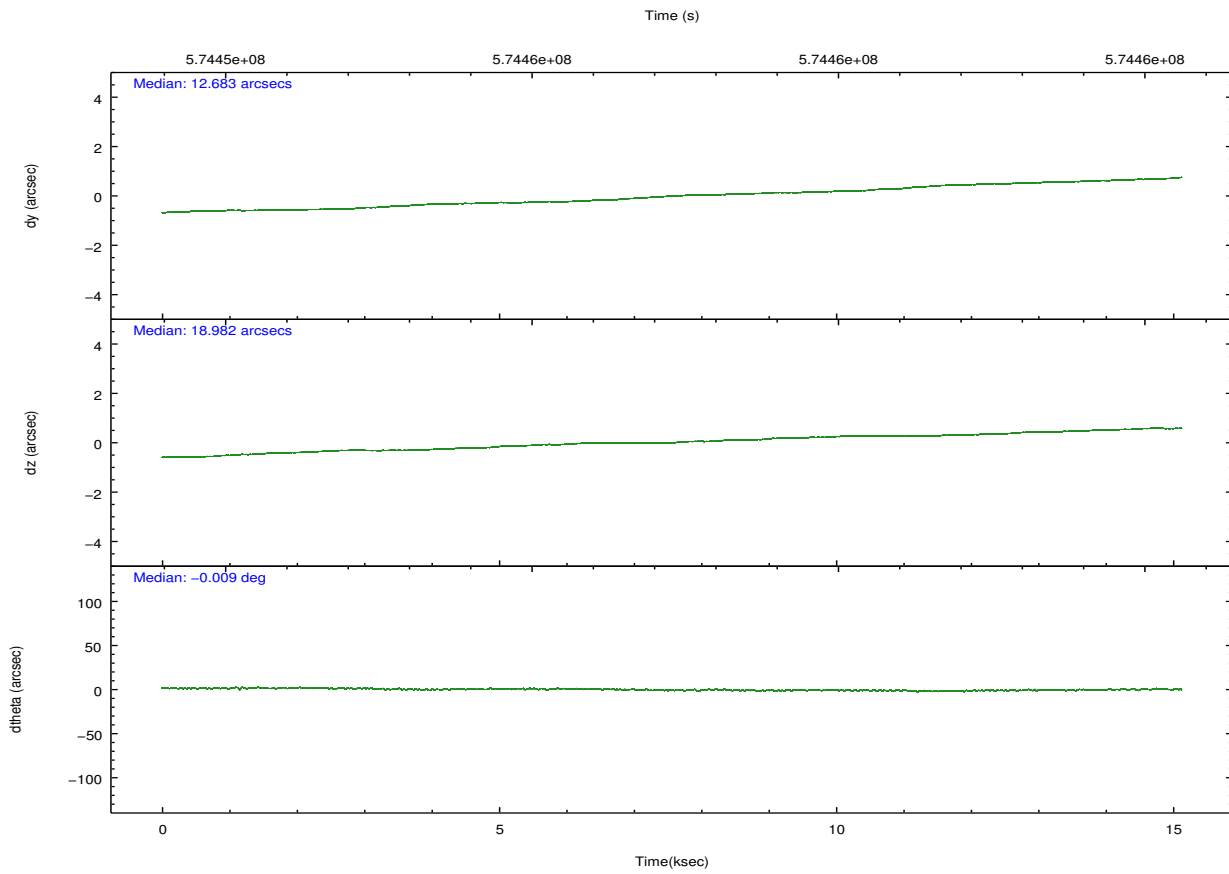
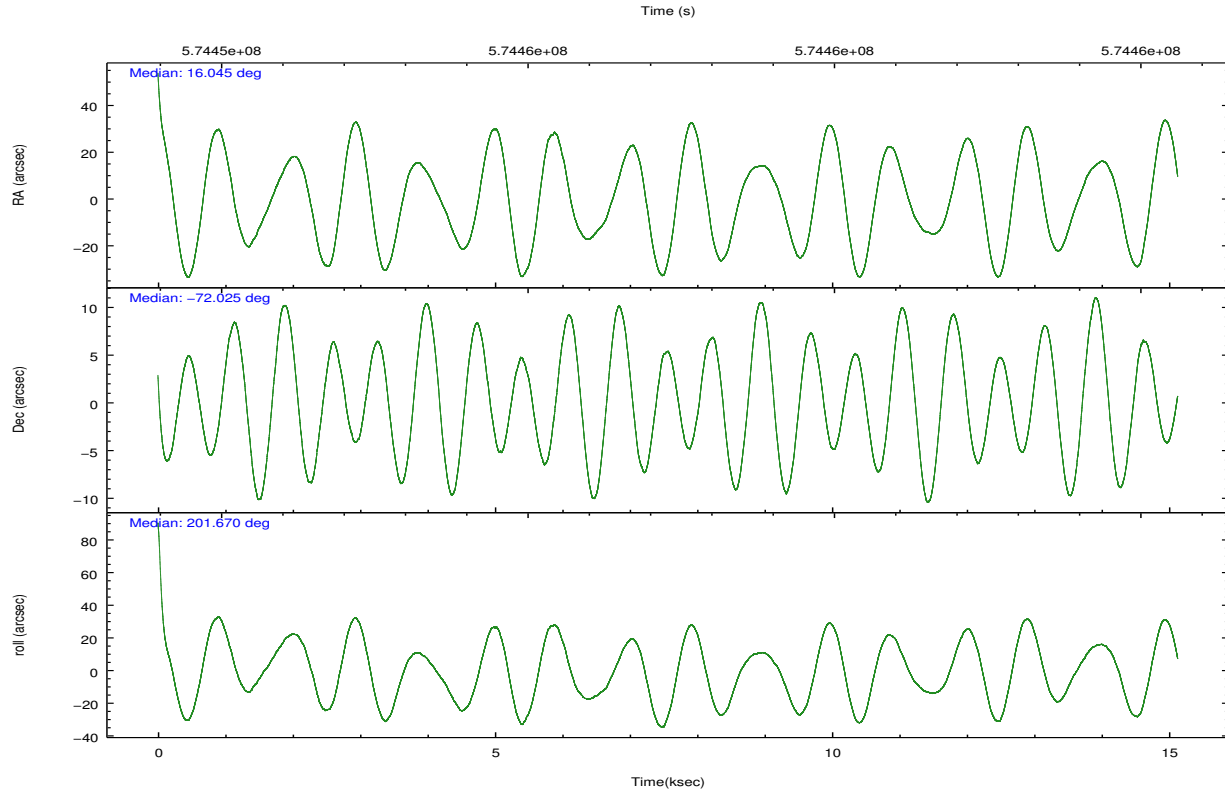
	<b>ccd 7</b>
grade 0 events	15057
	20%
grade 1 events	74
	0%
grade 2 events	16209
	22%
grade 3 events	7353
	10%
grade 4 events	7084
	9%
grade 5 events	2994
	4%
grade 6 events	14511
	20%
grade 7 events	9126
	12%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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	16.099019	16.04493746397141	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.003457	-72.02522105688611	Subarray start row	360	360
[deg] Pointing Roll	201.573445	201.6786704264156	Subarray row count	256	256
[s] Window start time (MET)	570672068.184000	570672068.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	575769668.184000	575769668.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	574449846.184000	574448150.40491			
Observation start date	2016-03-15T17:22:58	2016-03-15T16:55:50			
[s] Observation end time (MET)	574464846.184000	574465740.43091			
Observation end date	2016-03-15T21:32:58	2016-03-15T21:49:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect





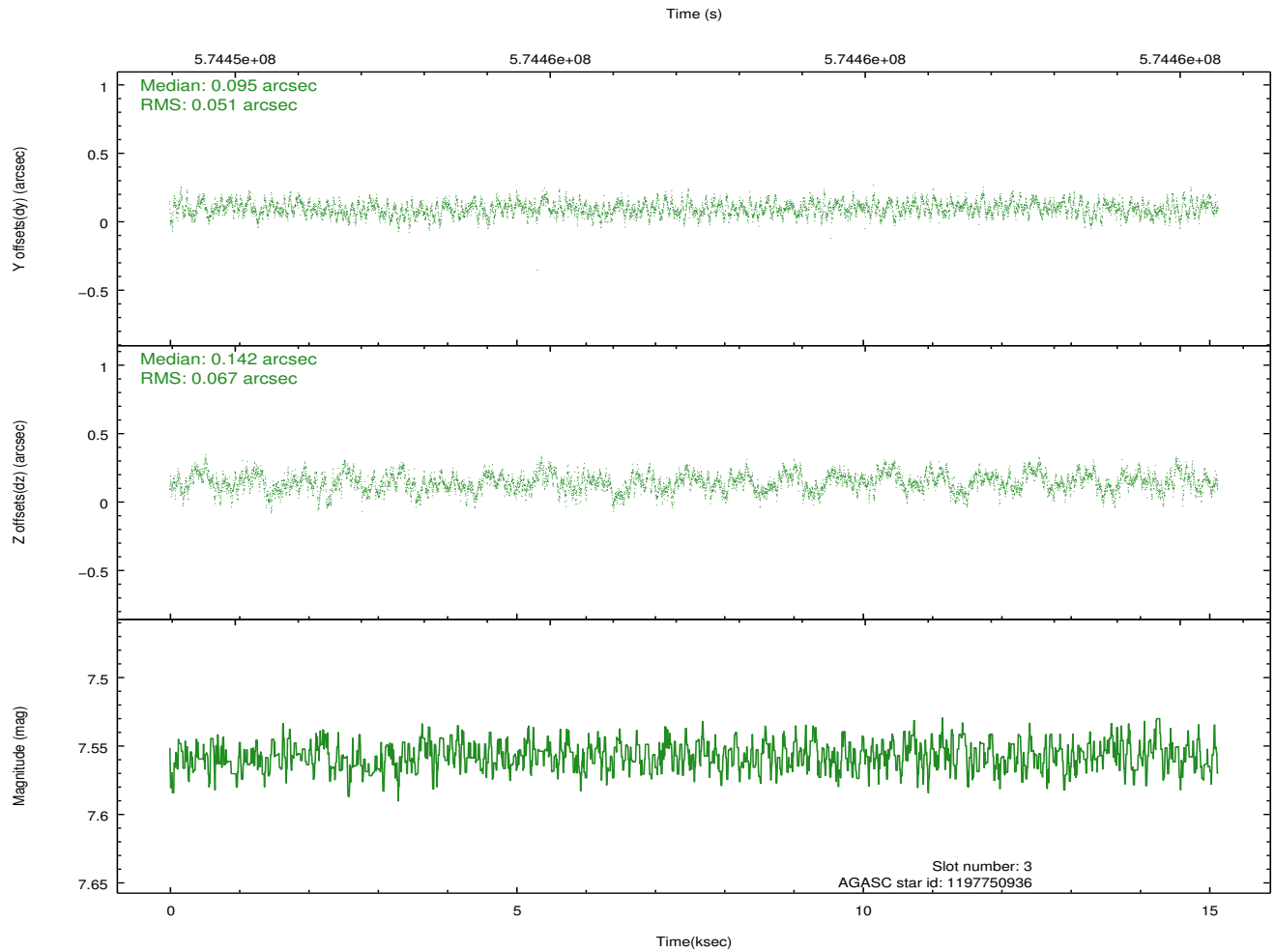
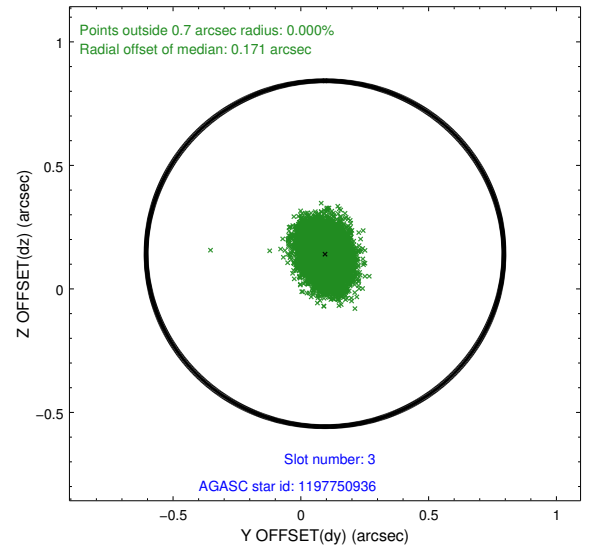
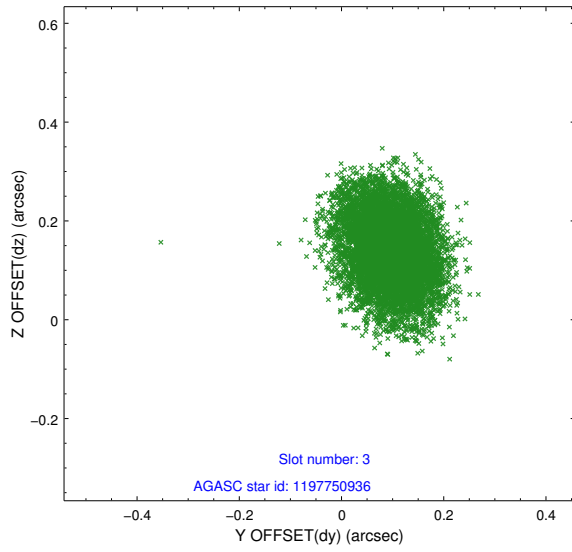
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.20	3690	0.239	-0.068	0.019	0.029	0.000000	0.000000	930.79	-1736.14
1	FID		ACIS-S-2	7.10	3690	-0.116	-0.064	0.019	0.029	0.000000	0.000000	-765.30	-1741.09
2	FID		ACIS-S-5	7.23	3689	-0.146	0.138	0.012	0.017	0.000000	0.000000	-1818.98	161.16
3	GUIDE	used	1197750936	7.56	7378	0.095	0.142	0.090	0.145	15.387940	-71.549550	155.39	-1811.97
4	GUIDE	used	1197884536	8.50	7377	0.035	0.123	0.113	0.174	17.160729	-71.835289	-1326.09	-115.28
5	GUIDE	used	1197885104	9.30	7373	0.029	0.020	0.193	0.288	17.845067	-72.189368	-1530.18	1355.86
6	GUIDE	used	1197885328	7.24	7380	0.212	0.172	0.088	0.141	16.283090	-71.733943	-550.89	-825.26
7	GUIDE	used	1198189696	7.33	7380	-0.388	-0.452	0.085	0.131	15.223750	-72.697522	1792.40	1985.62

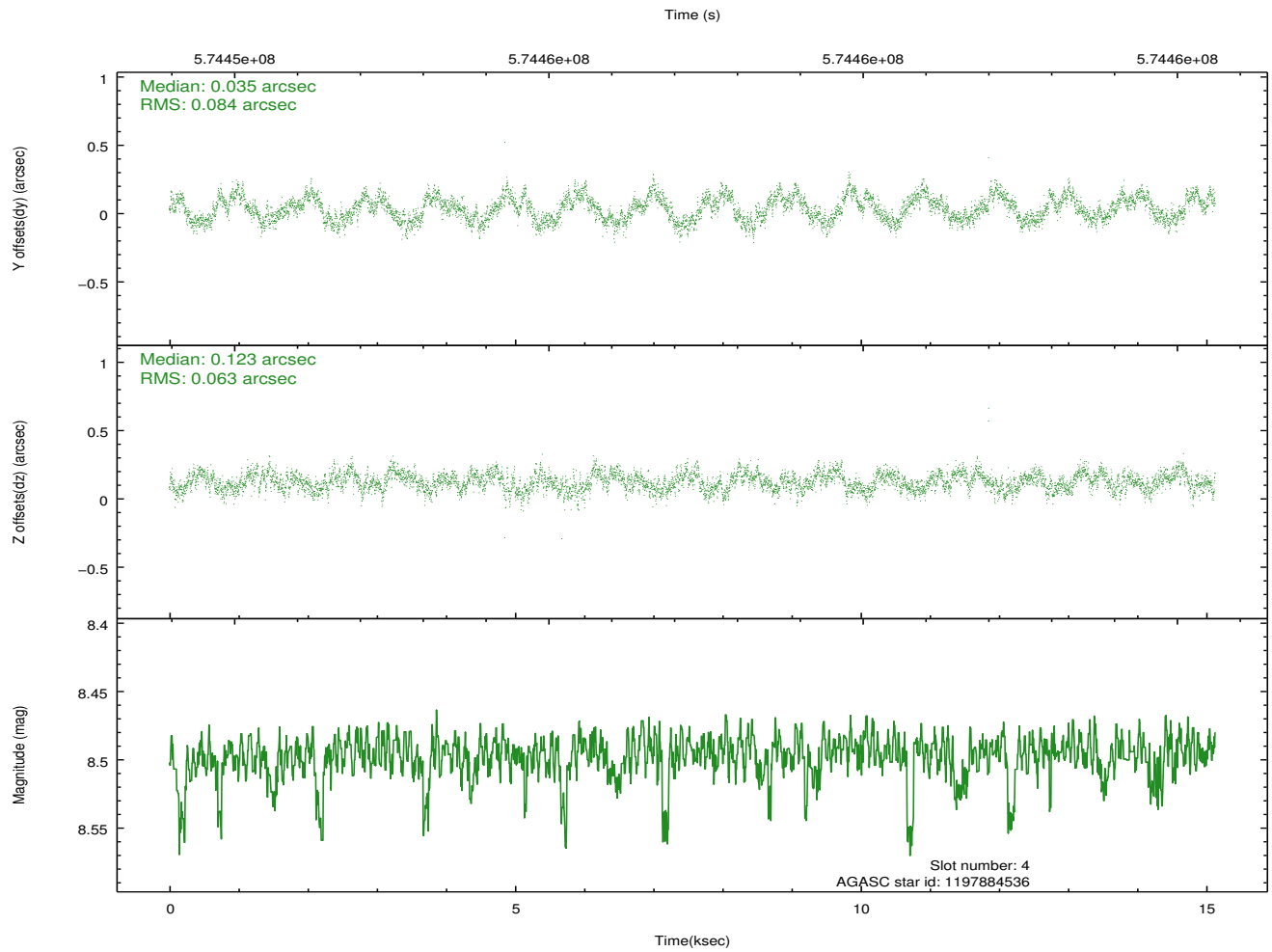
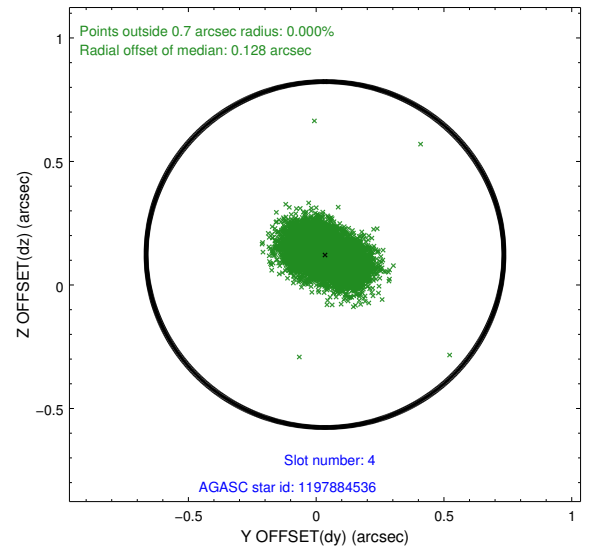
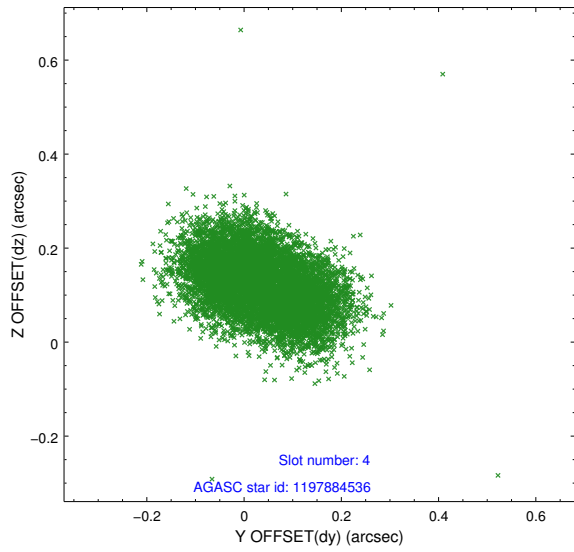
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## 2.4 Star Slots

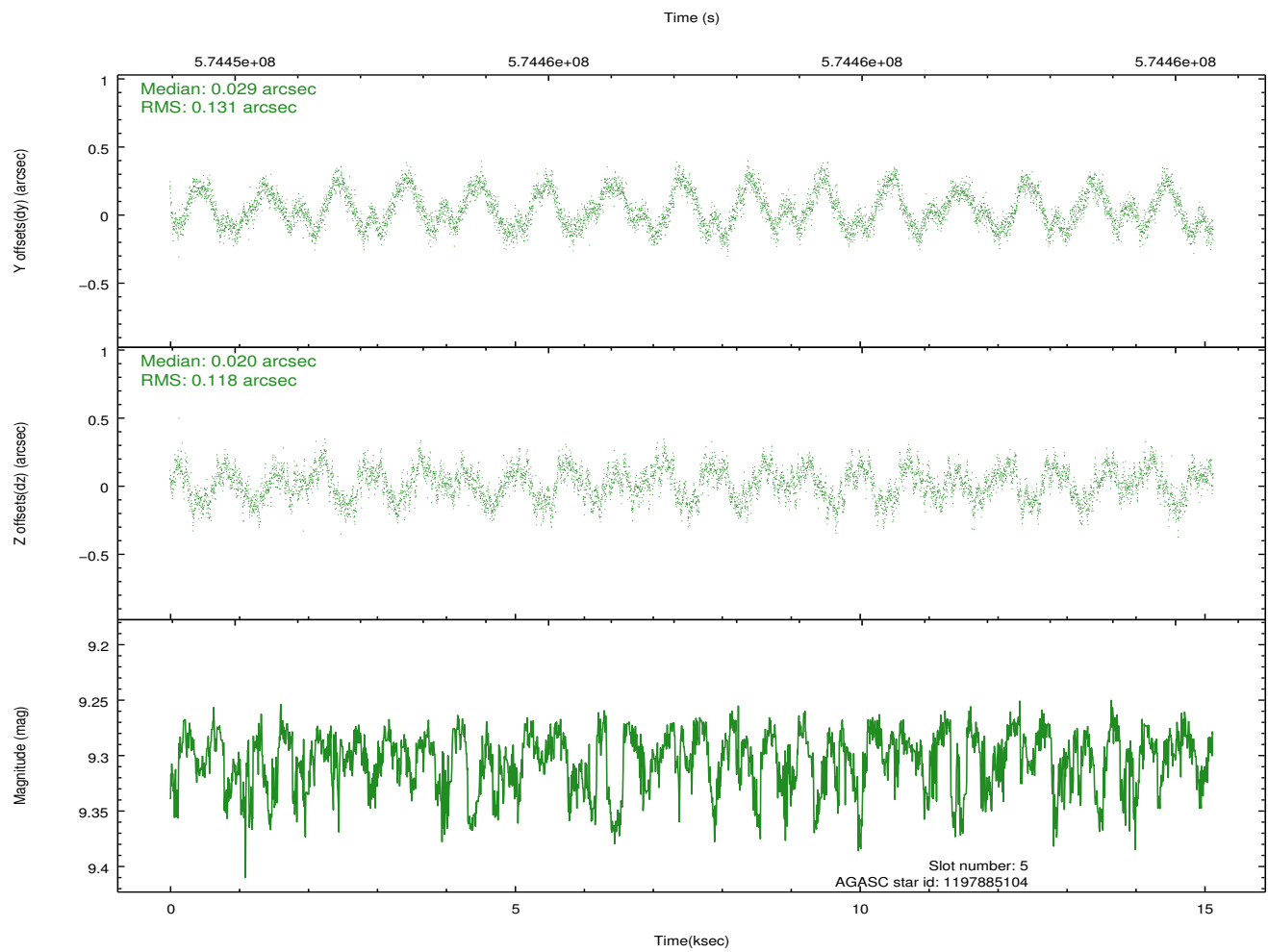
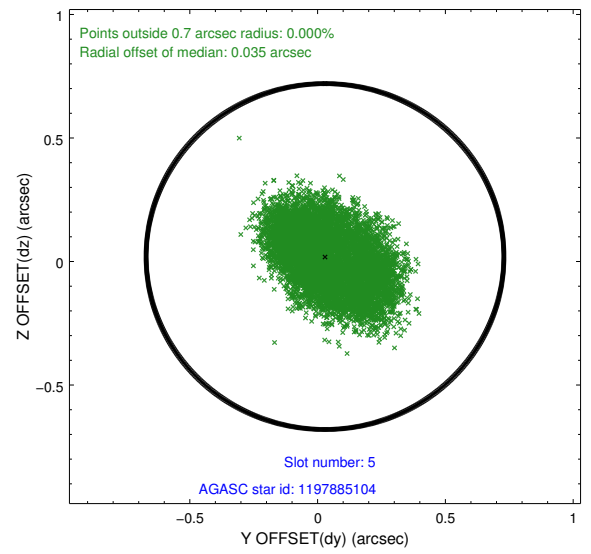
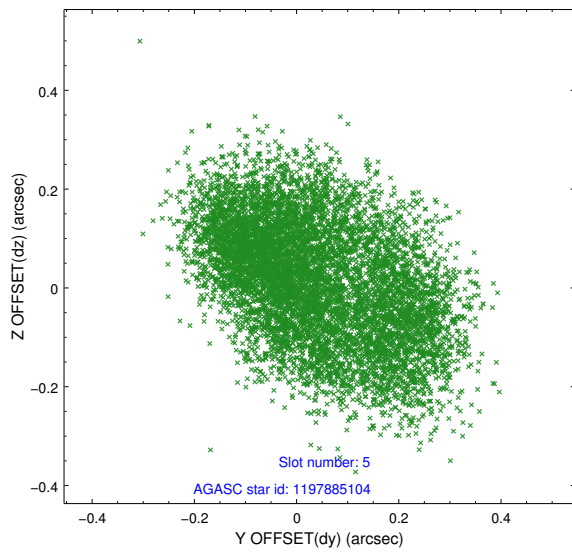
### 2.4.1 Slot 3



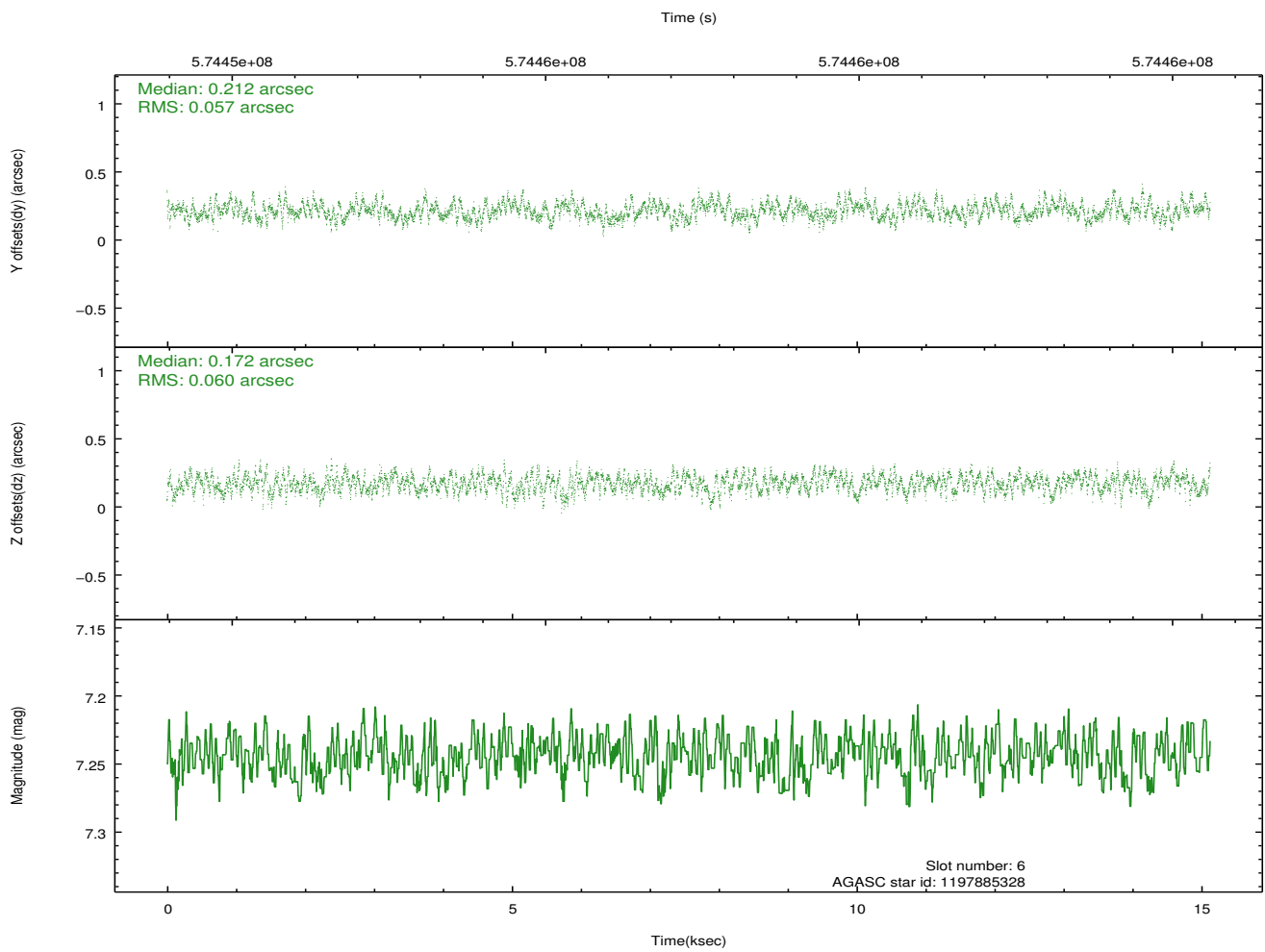
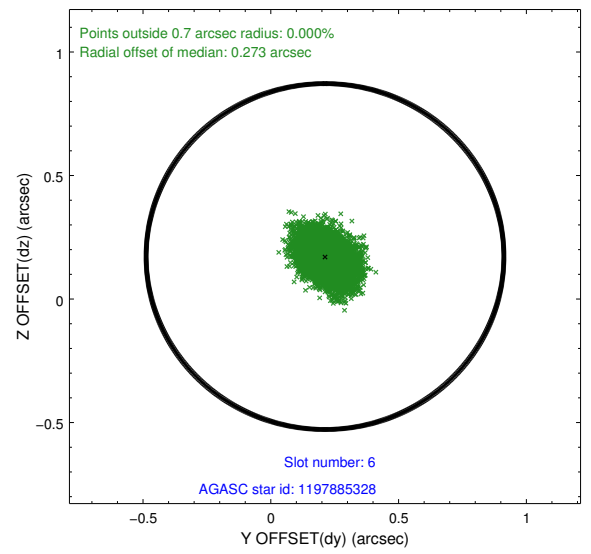
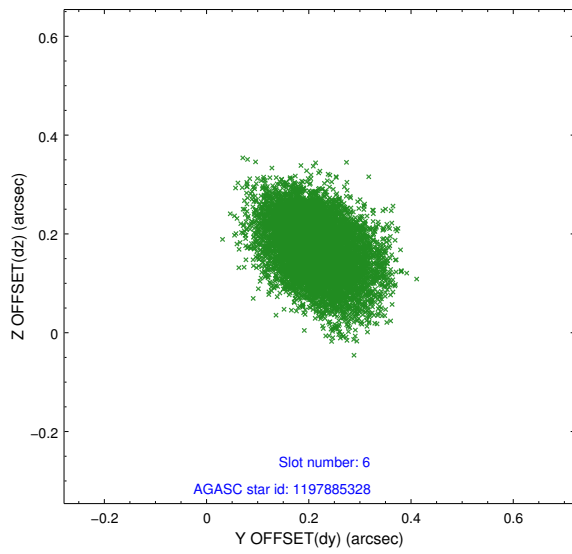
## 2.4.2 Slot 4



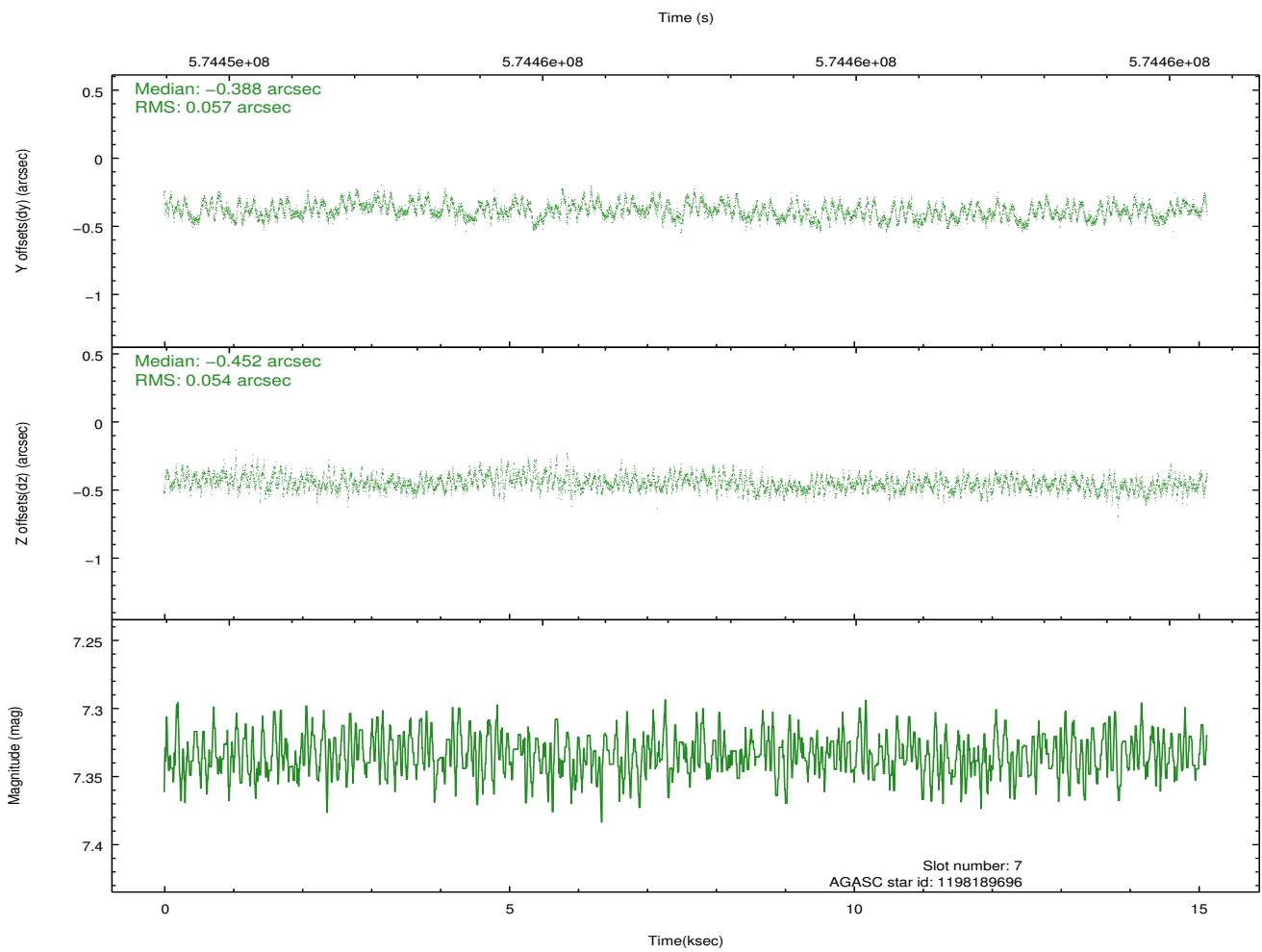
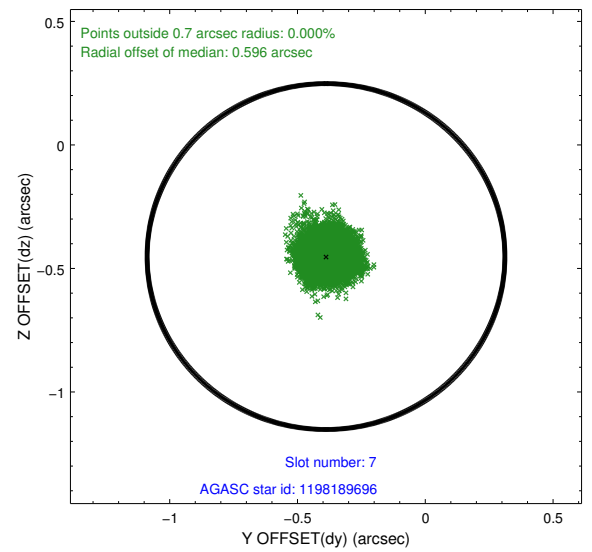
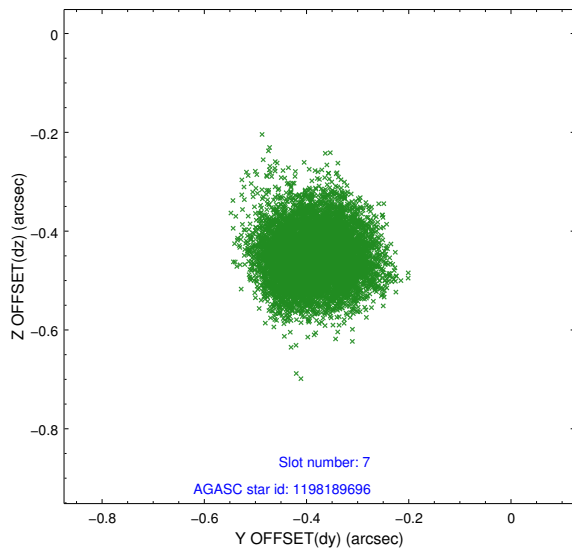
### 2.4.3 Slot 5



## 2.4.4 Slot 6

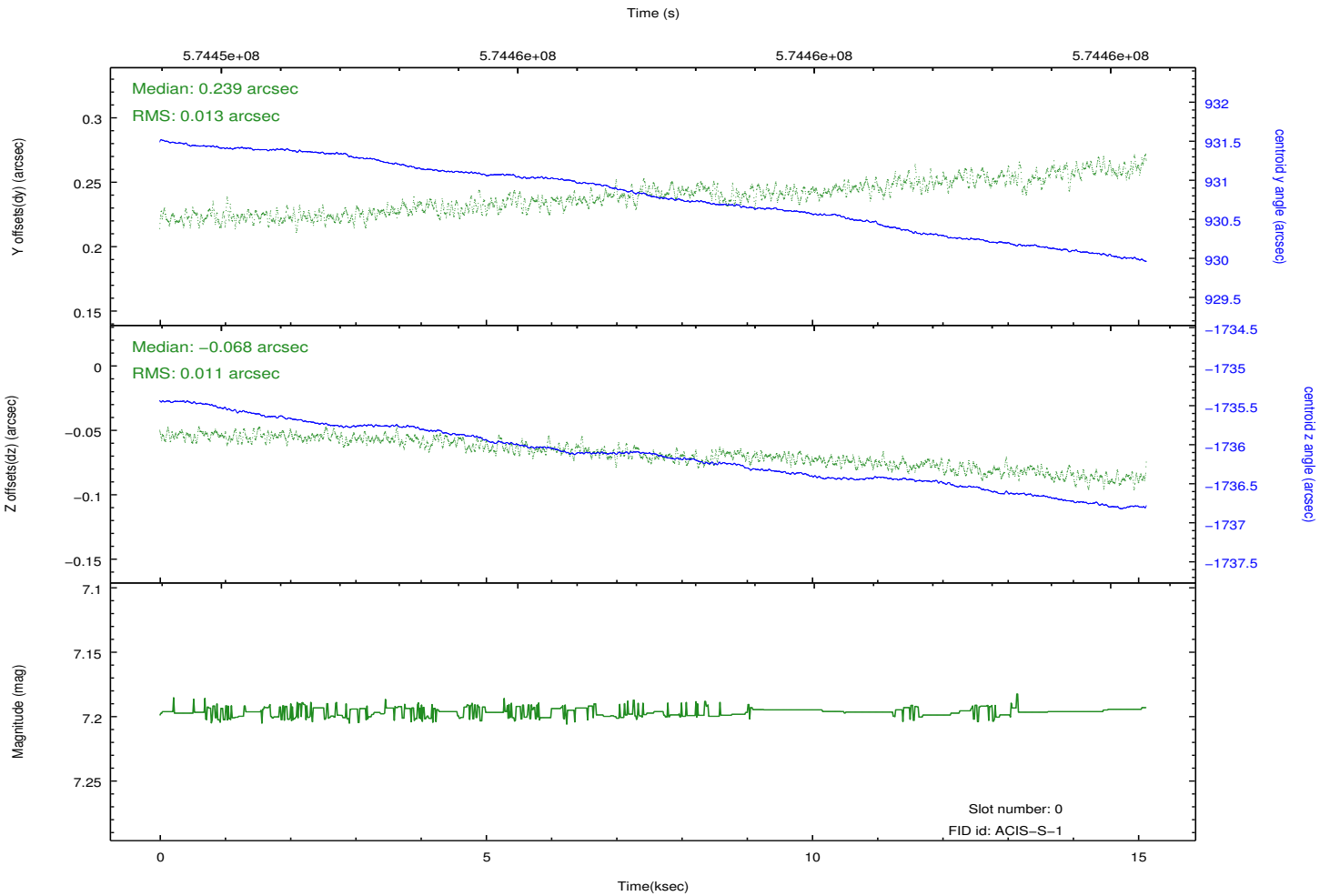
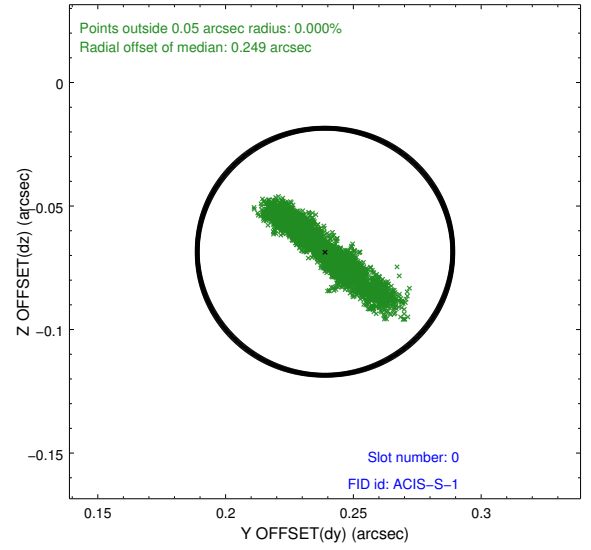
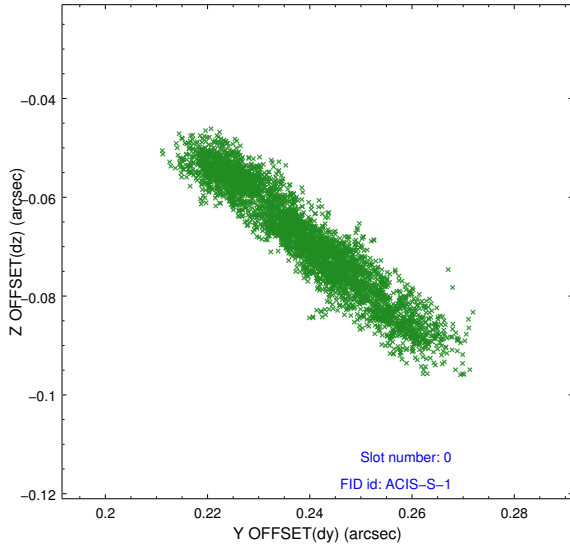


## 2.4.5 Slot 7

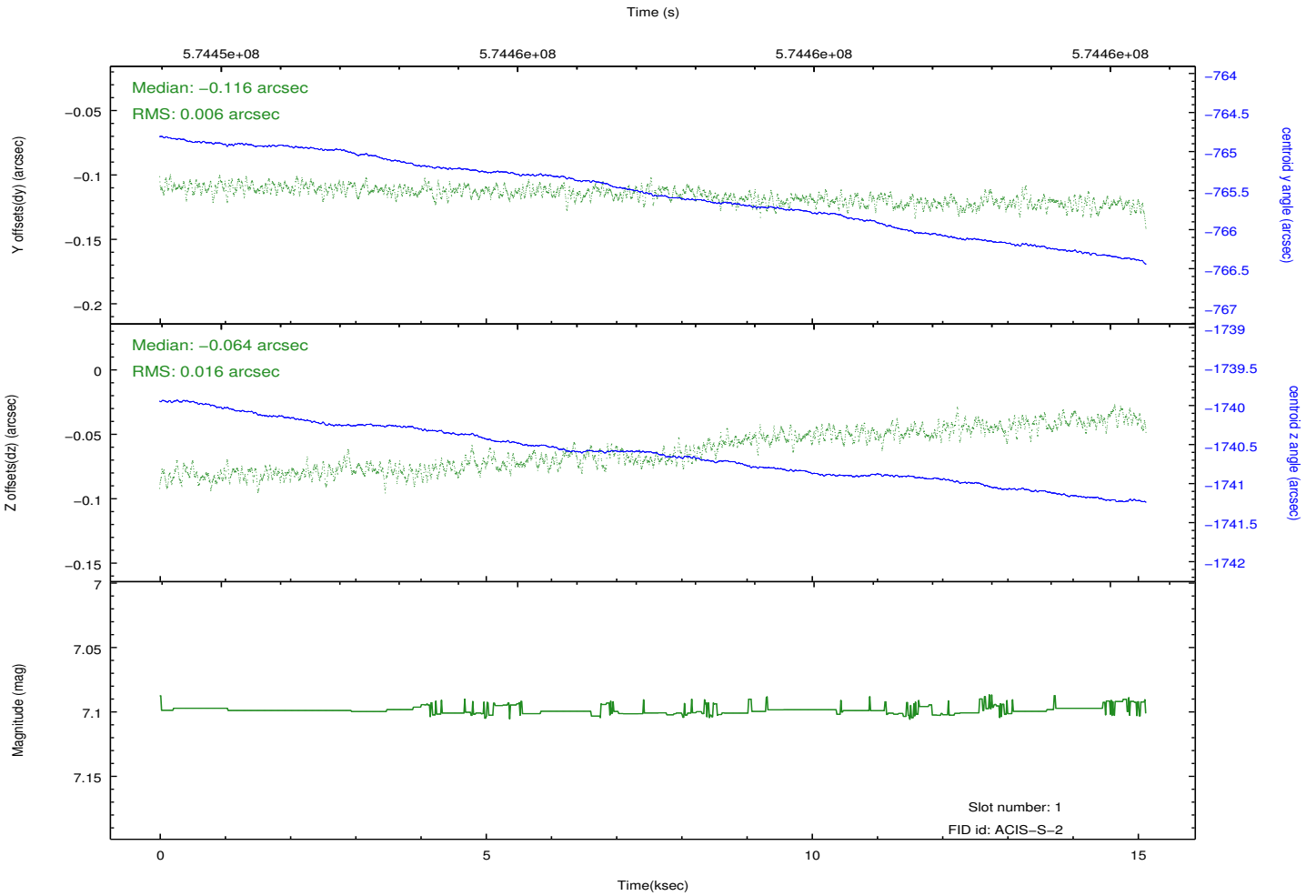
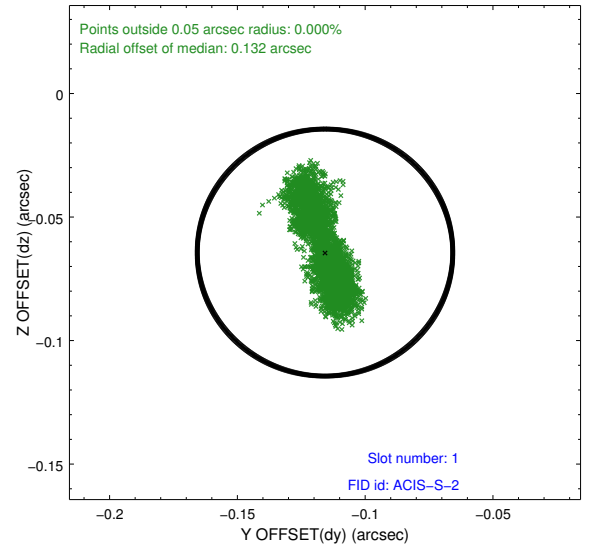
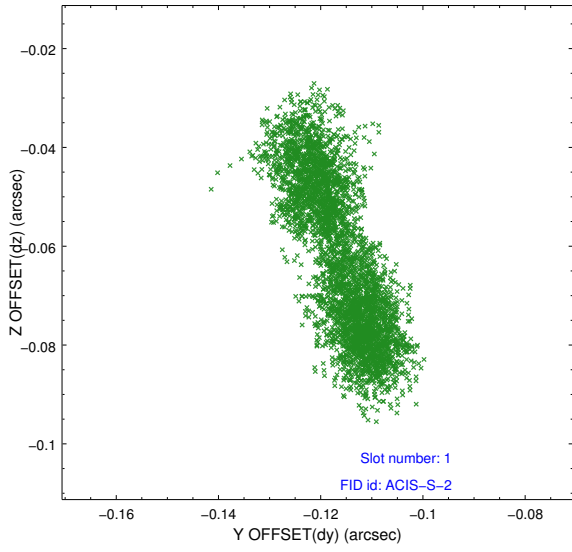


## 2.5 FID Slots

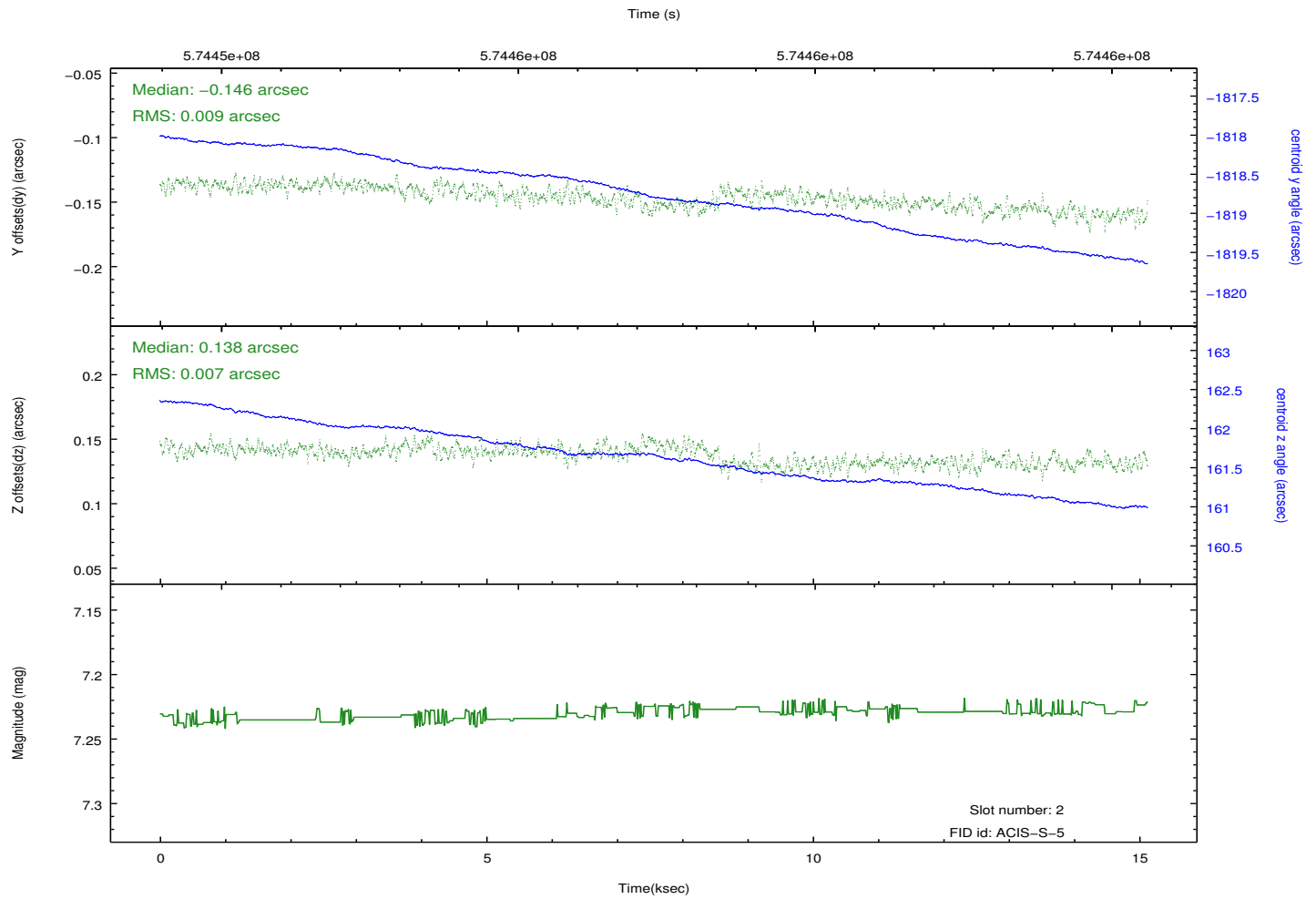
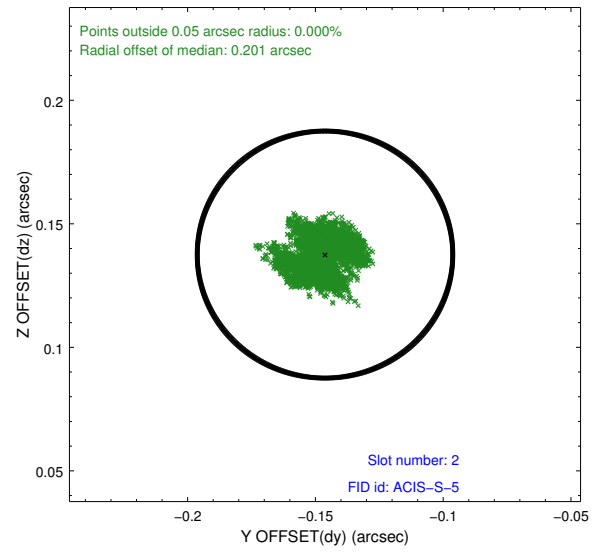
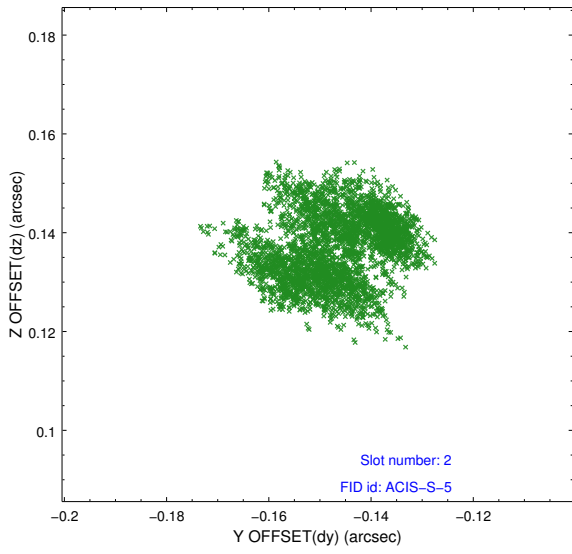
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.060799102306

## A.2 Comments

Window constraint met.