

# V&V Reference Report

## L2 ASCDS Version : 10.6.4.1

Observation 21000 - L2 Version 1  
Chandra X-Ray Center

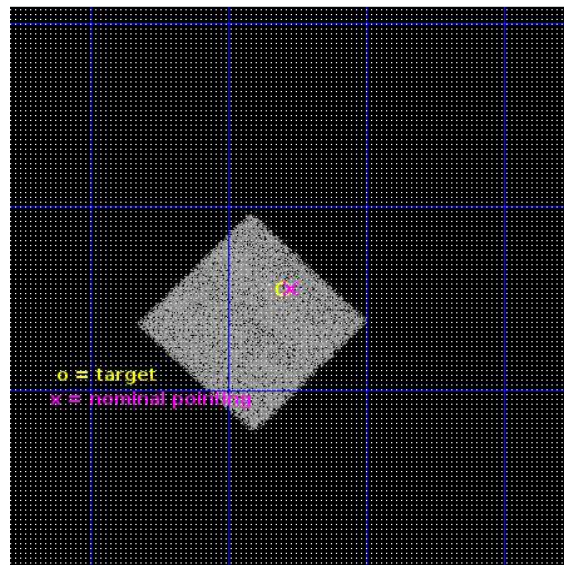
L2 Processing Date : Oct 1 2018

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# 1 Front

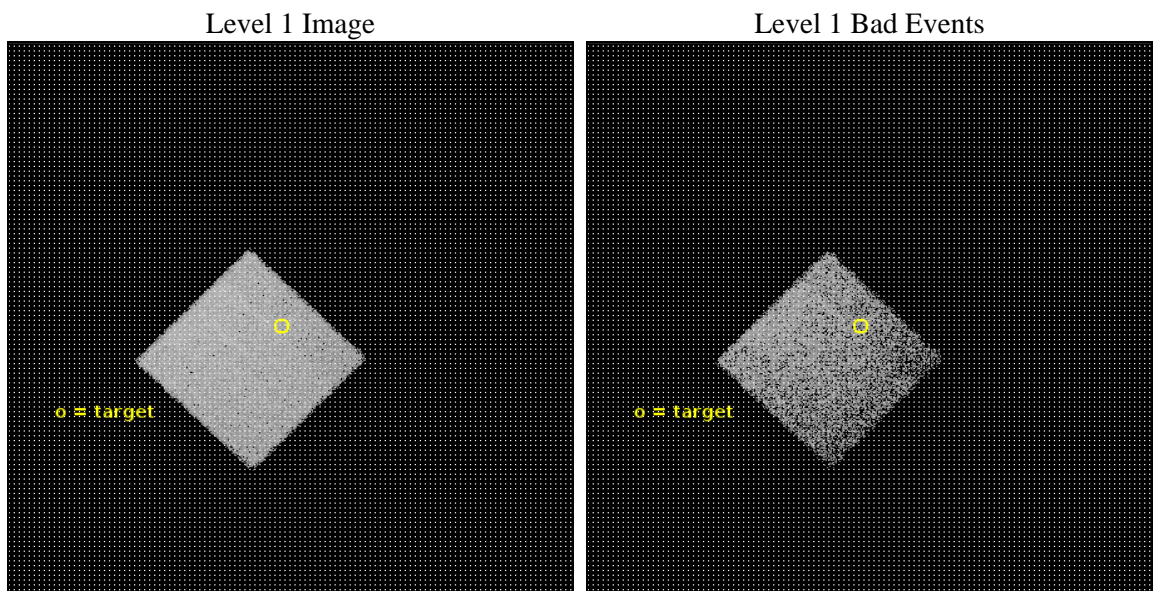
seq_num	503046	Sequence number
obs_id	21000	Observation id
title	Zeroing in on the Mass Loss Properties of Core Collapse Supernova Progenitors	Proposal title
observer	Daniel Patnaude	Principal investigator
object	SN2013ej	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.2	Observer's specified target RA [deg]
dec_targ	15.758611	Observer's specified target Dec [deg]
ra_nom	24.19252627716	Nominal RA [deg]
dec_nom	15.758795794106	Nominal Dec [deg]
roll_nom	134.15866830835	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10091.747765541	Sum of GTIs [s]
livetime	9955.5557627073	Livetime [s]
ontime7	10091.747765541	Sum of GTIs [s]
l2events	40548	Number of level 2 events



## 2 OBI

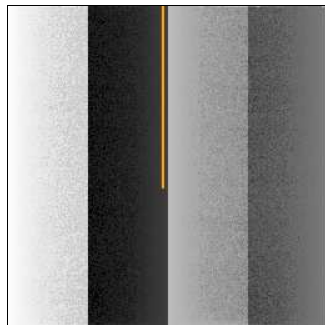
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	10091.747765541	Sum of GTIs [s]
caldsver	4.8.0	&#160	ontime7	10091.747765541	Sum of GTIs [s]
date	2018-10-01T13:37:22	Date and time of file creation	l1events	97234	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	97234
rejected events	55465
rejected %	57%

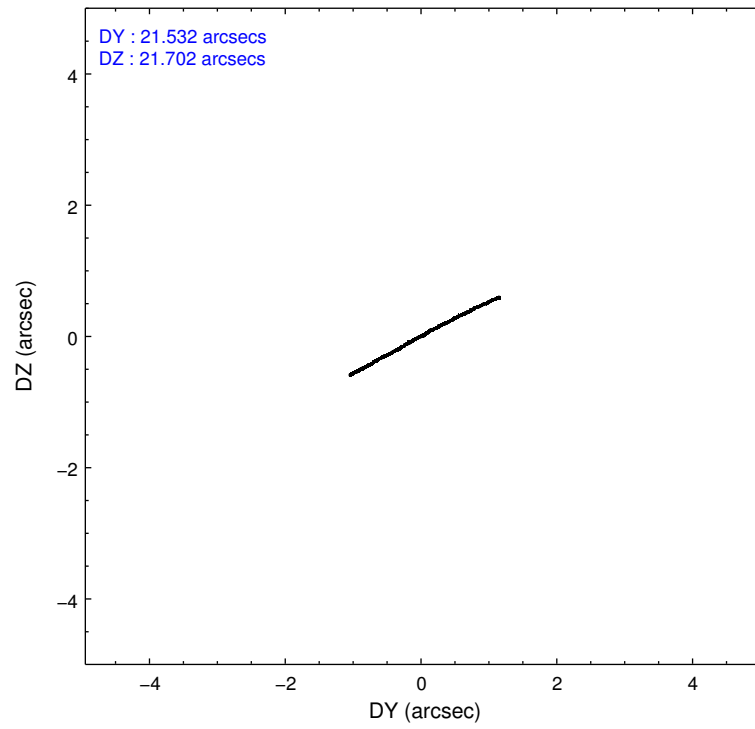
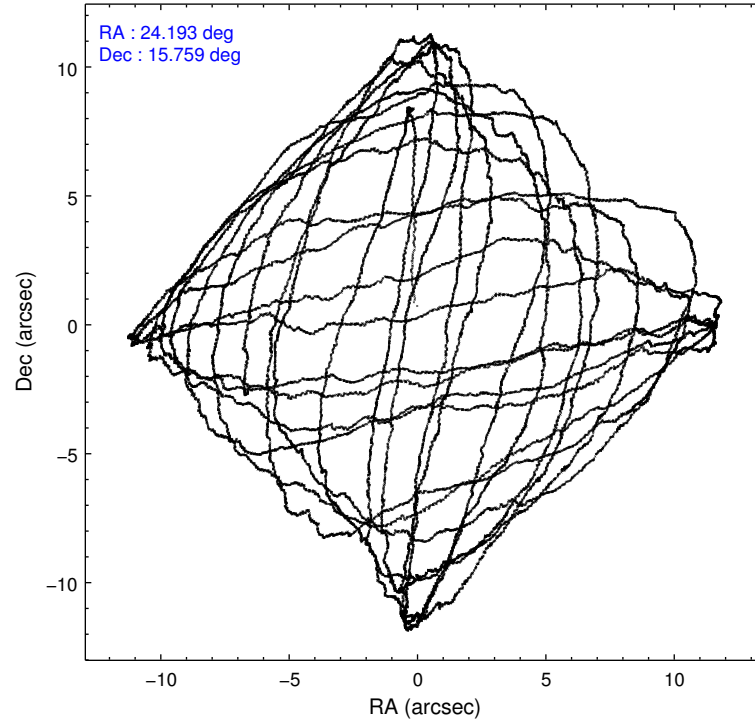
	<b>ccd 7</b>
grade 0 events	3402
	3%
grade 1 events	171
	0%
grade 2 events	8786
	9%
grade 3 events	3298
	3%
grade 4 events	3160
	3%
grade 5 events	9127
	9%
grade 6 events	23134
	23%
grade 7 events	46156
	47%

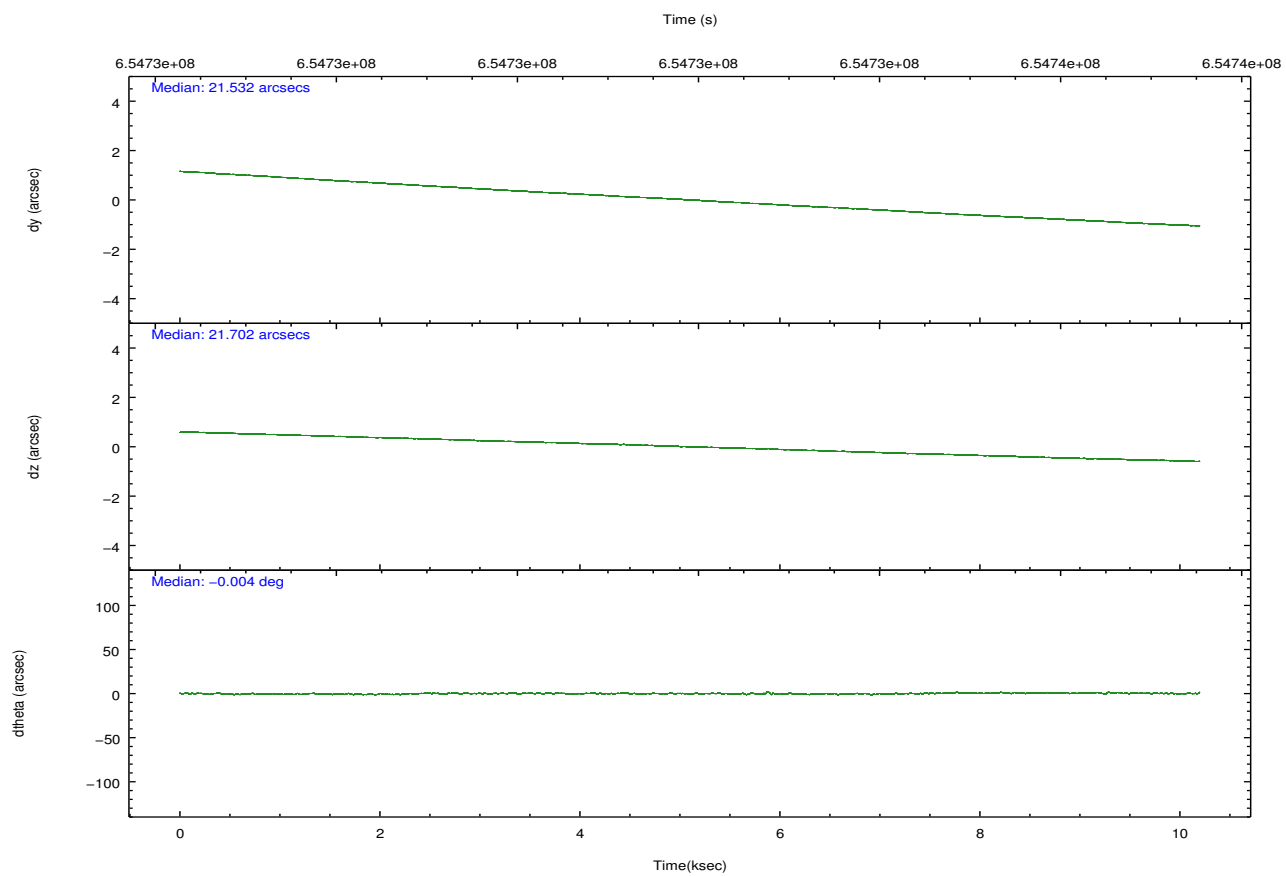
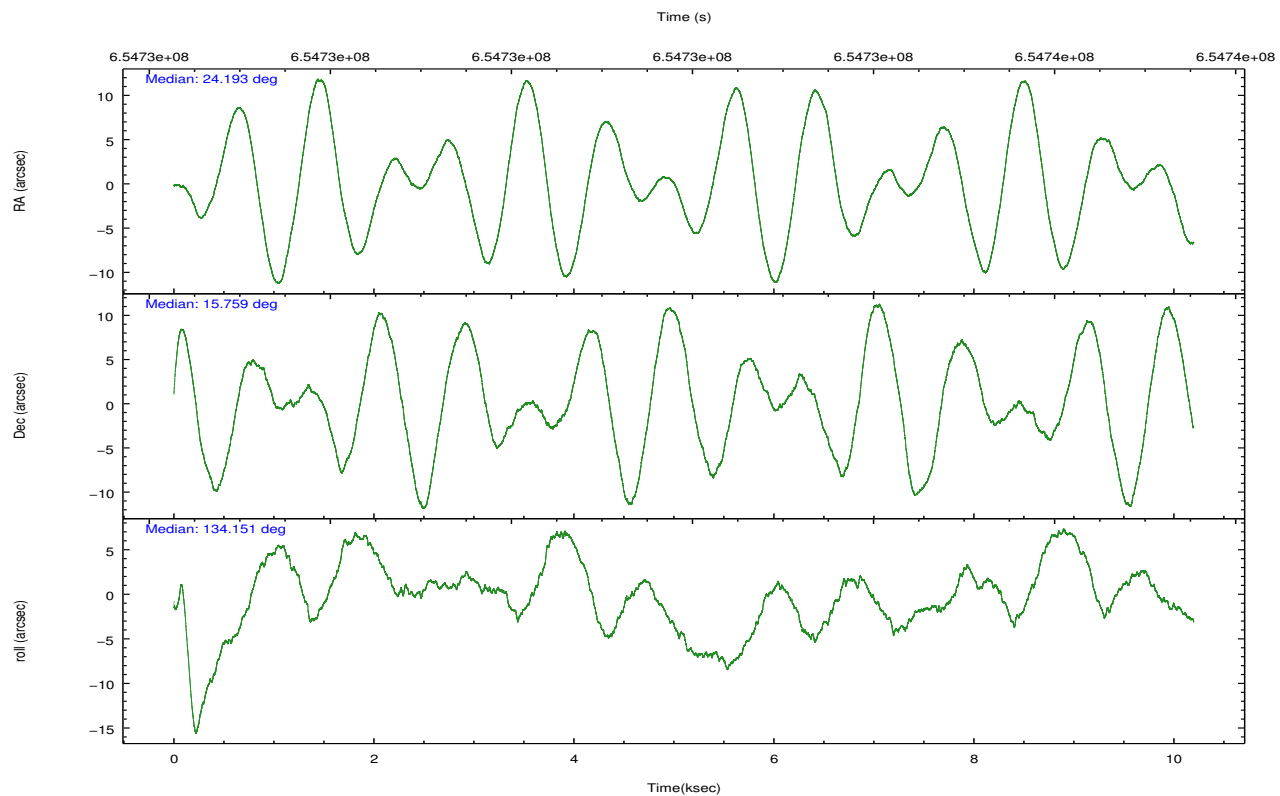


## 2.2 Compared Parameters

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	24.220084	24.19252627716045	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.751636	15.75879579410596	Alternating exposures requested	N	N
[deg] Pointing Roll	133.994544	134.1586683083474	[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)	654726994.184000	654726299.09567			
Observation start date	2018-09-30T20:35:25	2018-09-30T20:24:59			
[s] Observation end time (MET)	654736994.184000	654738079.93387			
Observation end date	2018-09-30T23:22:05	2018-09-30T23:41:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



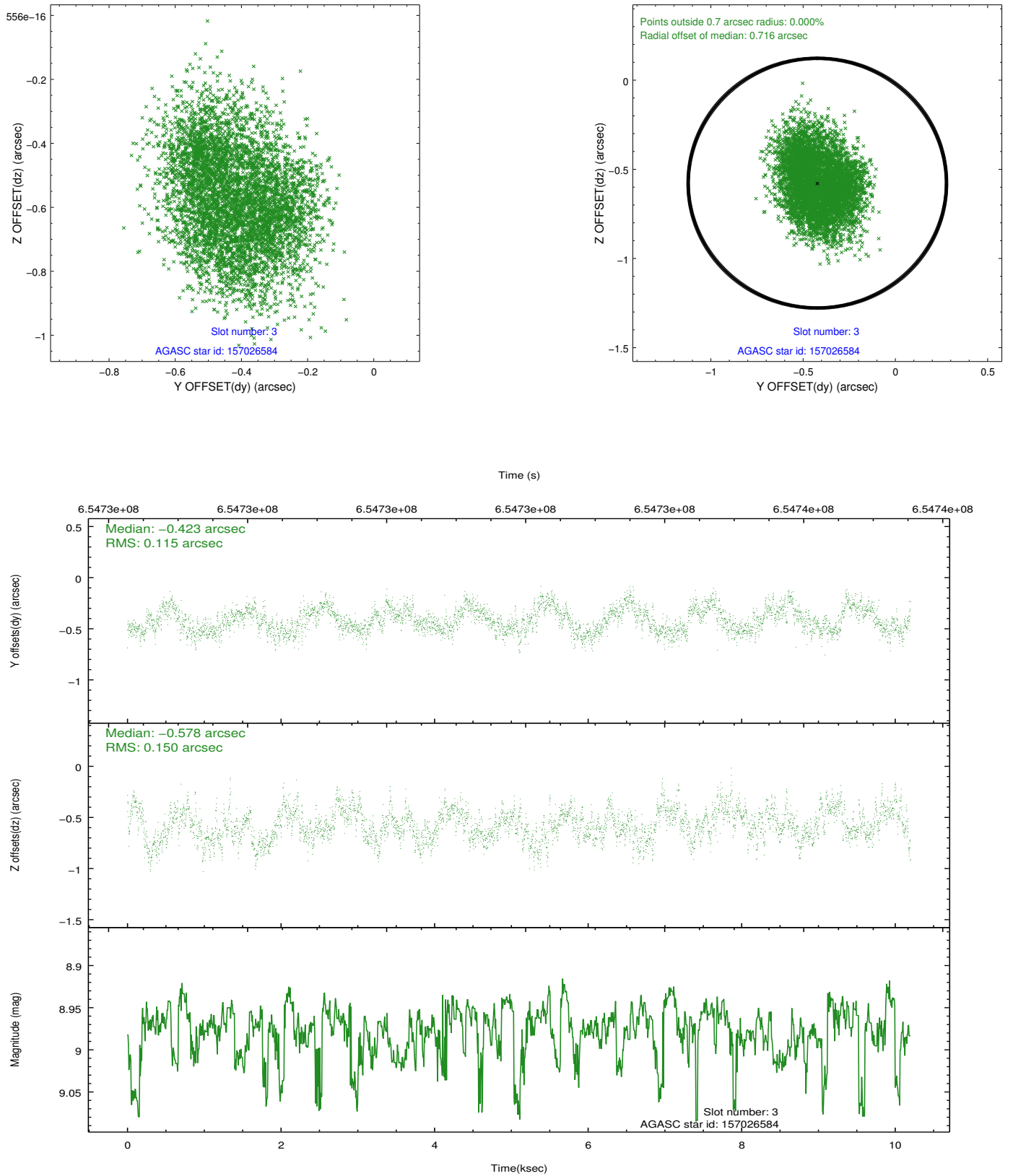


Slot Statistics

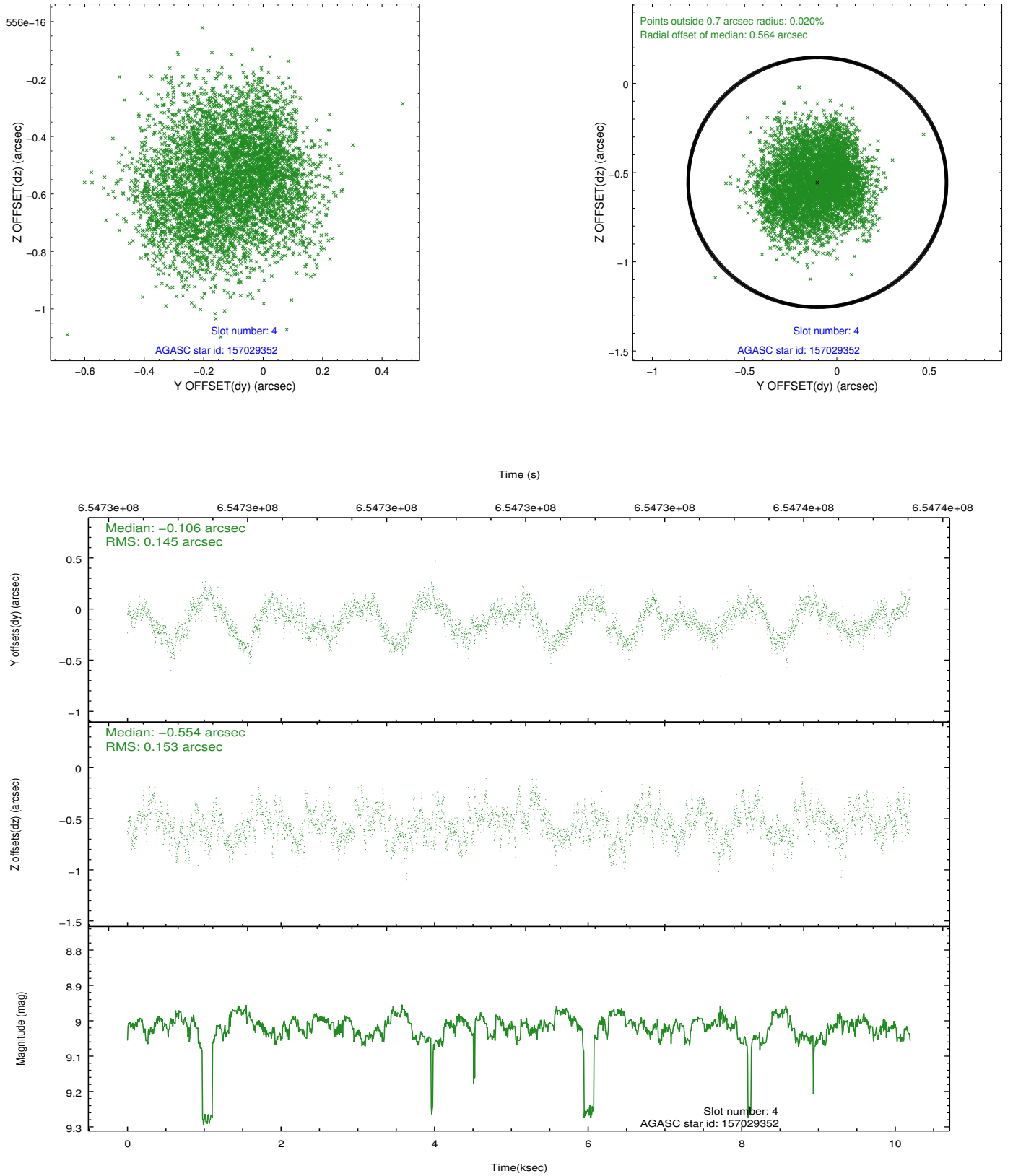
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2488	1.000	-0.252	-0.144	0.017	0.030	0.000000	0.000000	-774.93	-1743
1	FID		ACIS-S-4	7.24	2487	1.000	0.561	0.161	0.013	0.035	0.000000	0.000000	2138.91	164
2	FID		ACIS-S-5	7.24	2488	1.000	-0.336	-0.007	0.027	0.044	0.000000	0.000000	-1827.21	158
3	GUIDE	used	157026584	8.98	4969	1.000	-0.423	-0.578	0.203	0.315	23.464180	15.603174	1438.26	2252
4	GUIDE	used	157029352	9.02	4967	1.000	-0.106	-0.554	0.231	0.348	23.764744	15.271289	-145.17	2337
5	GUIDE	used	157943240	8.91	4972	1.000	-0.106	0.251	0.223	0.367	24.500363	16.361777	908.47	-2221
6	GUIDE	used	157953216	9.35	4971	1.000	0.065	-0.071	0.171	0.309	24.189817	15.248642	-1229.56	1332
7	GUIDE	used	157953384	9.41	4966	1.000	0.570	0.942	0.200	0.332	25.000047	15.804560	-1735.39	-2078

## 2.4 Star Slots

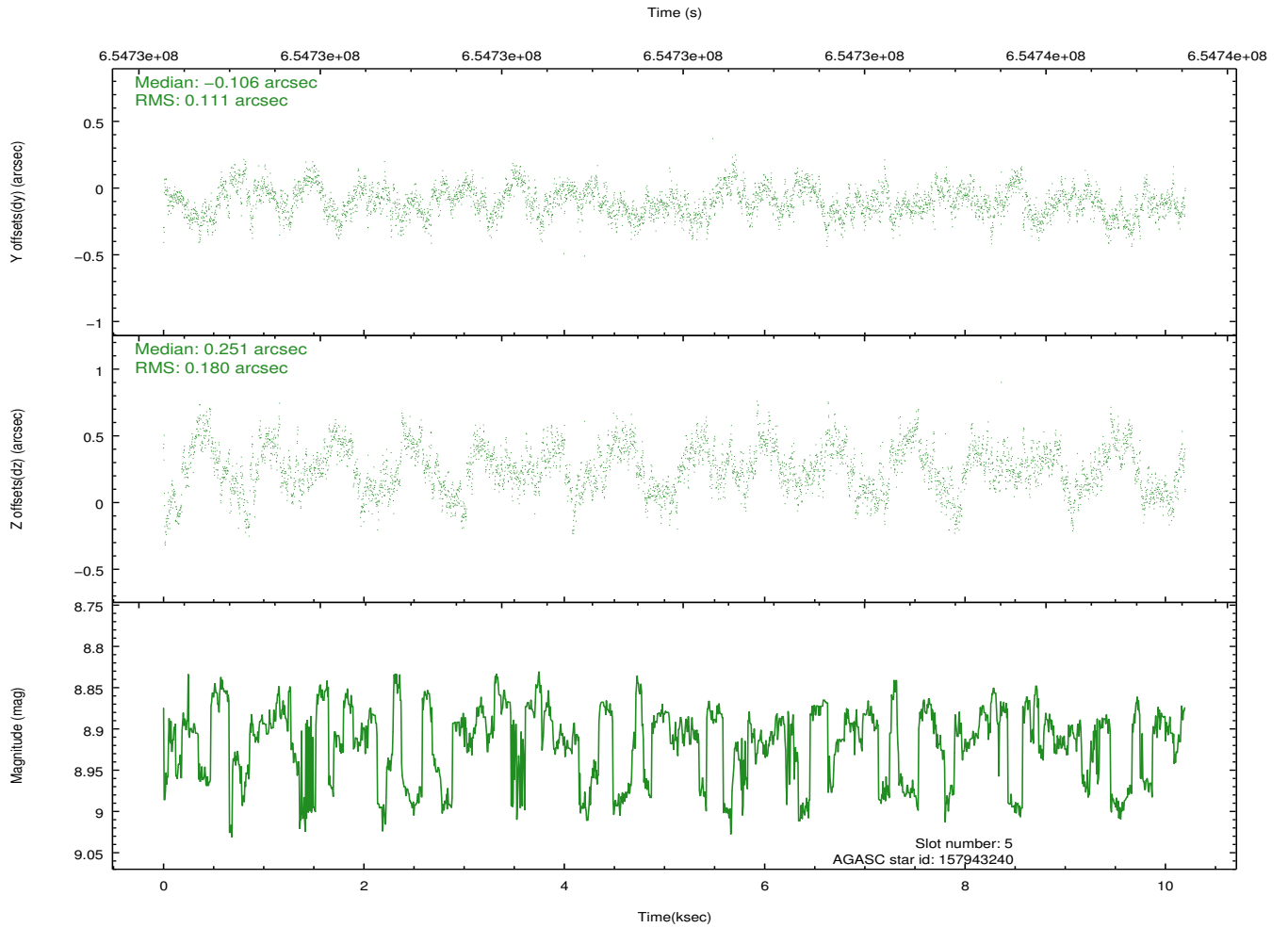
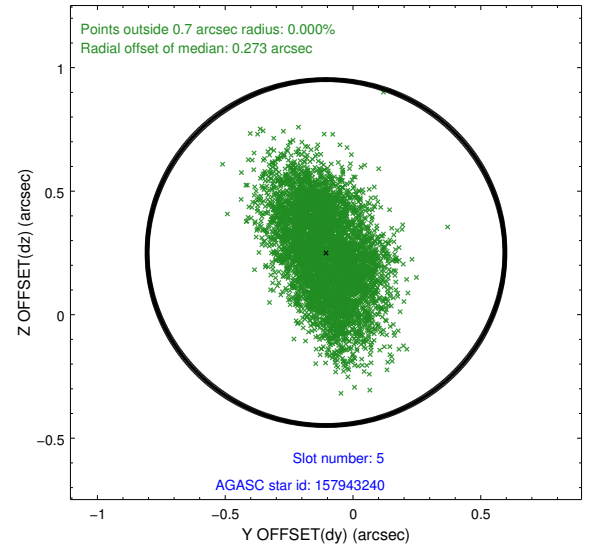
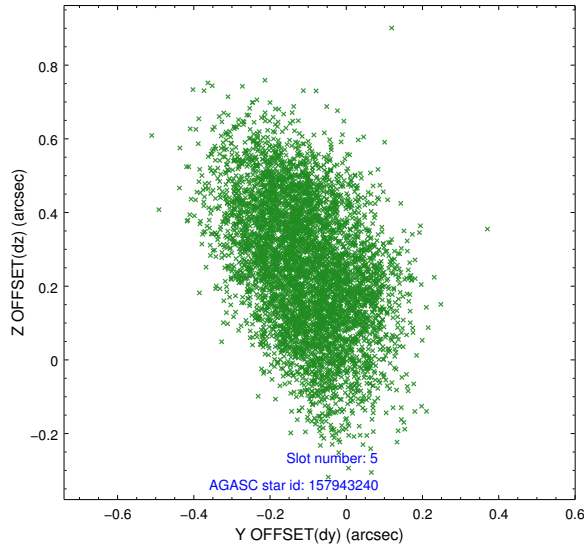
### 2.4.1 Slot 3



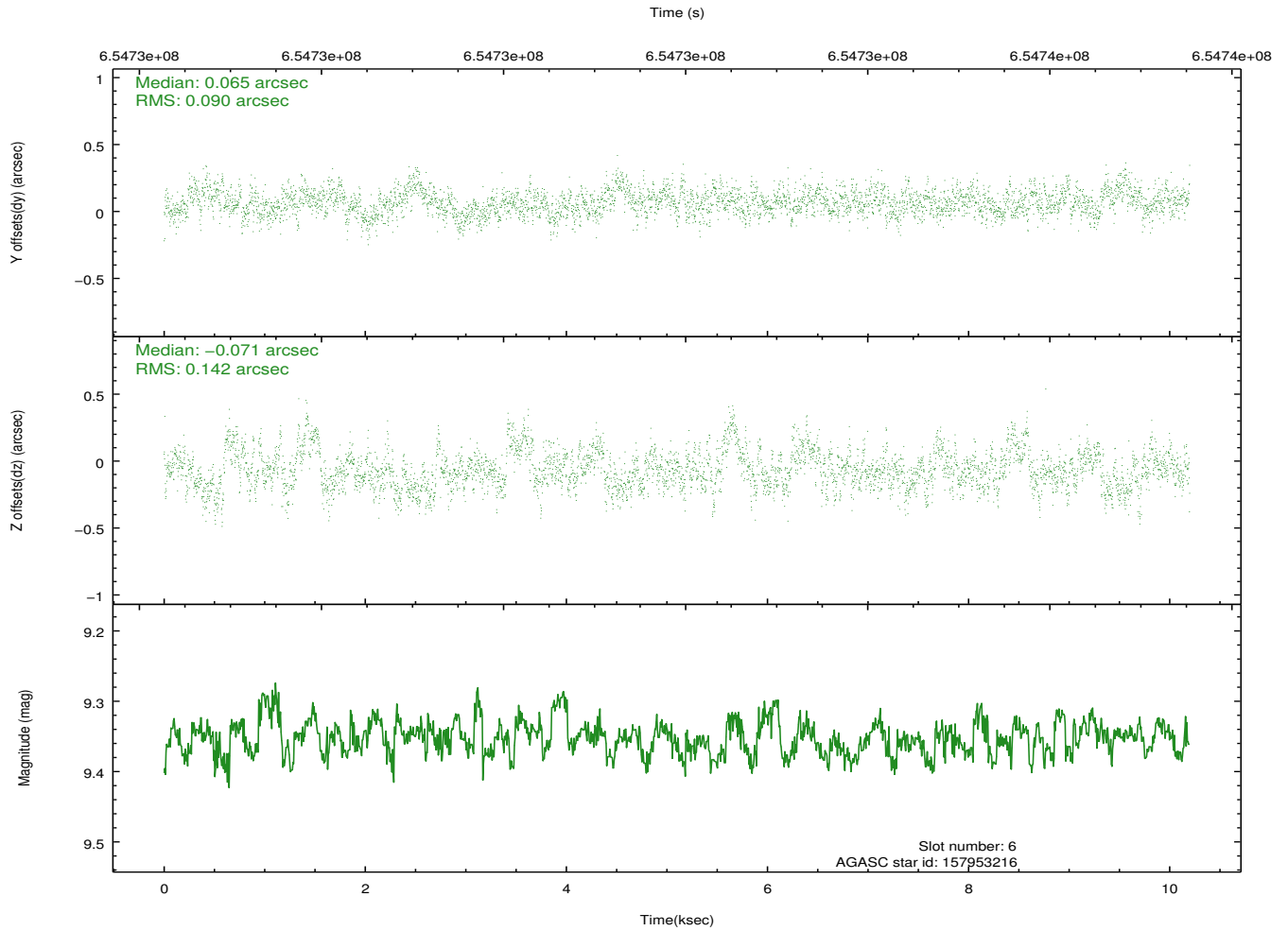
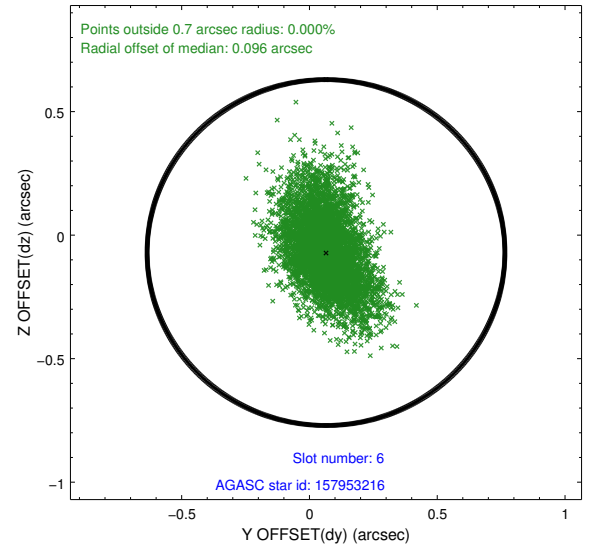
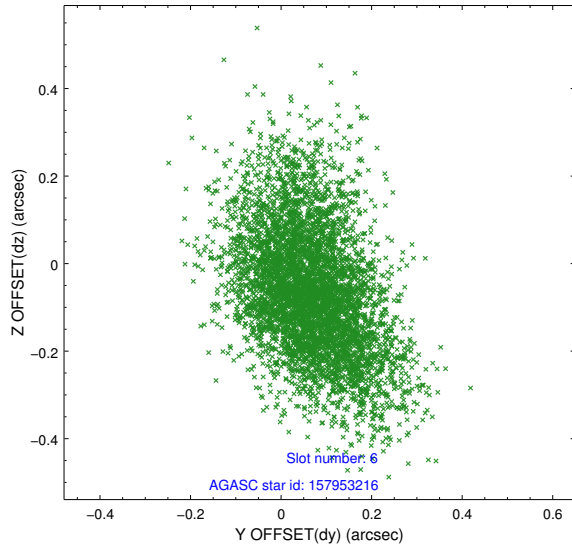
## 2.4.2 Slot 4



### 2.4.3 Slot 5

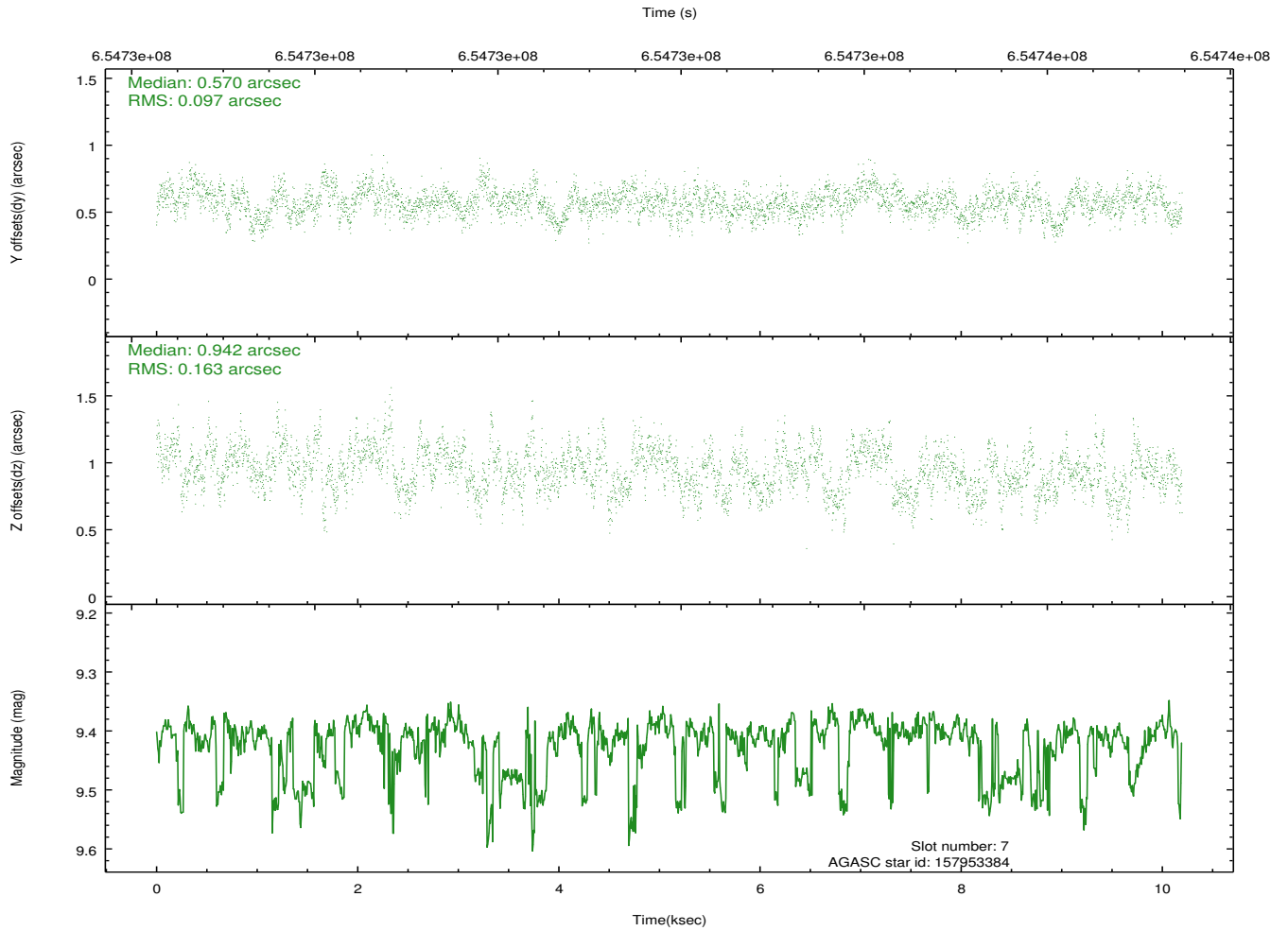
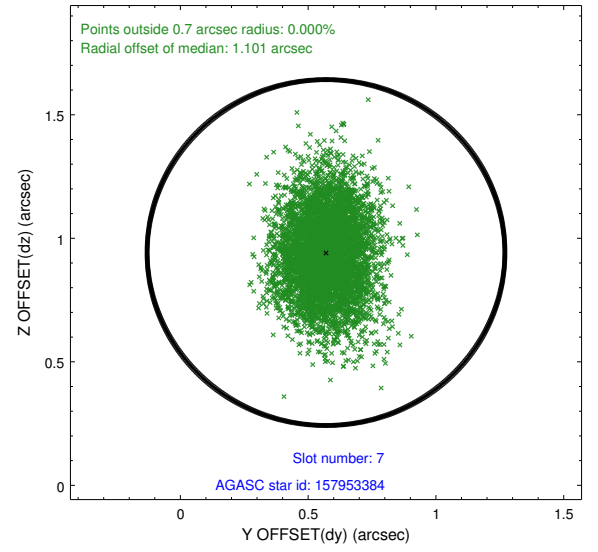
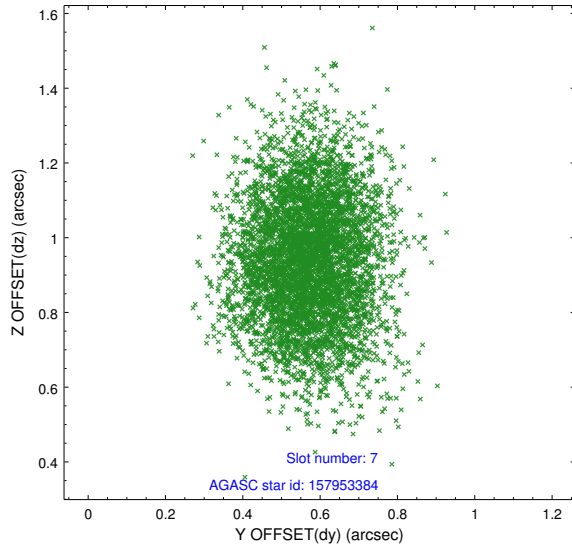


## 2.4.4 Slot 6



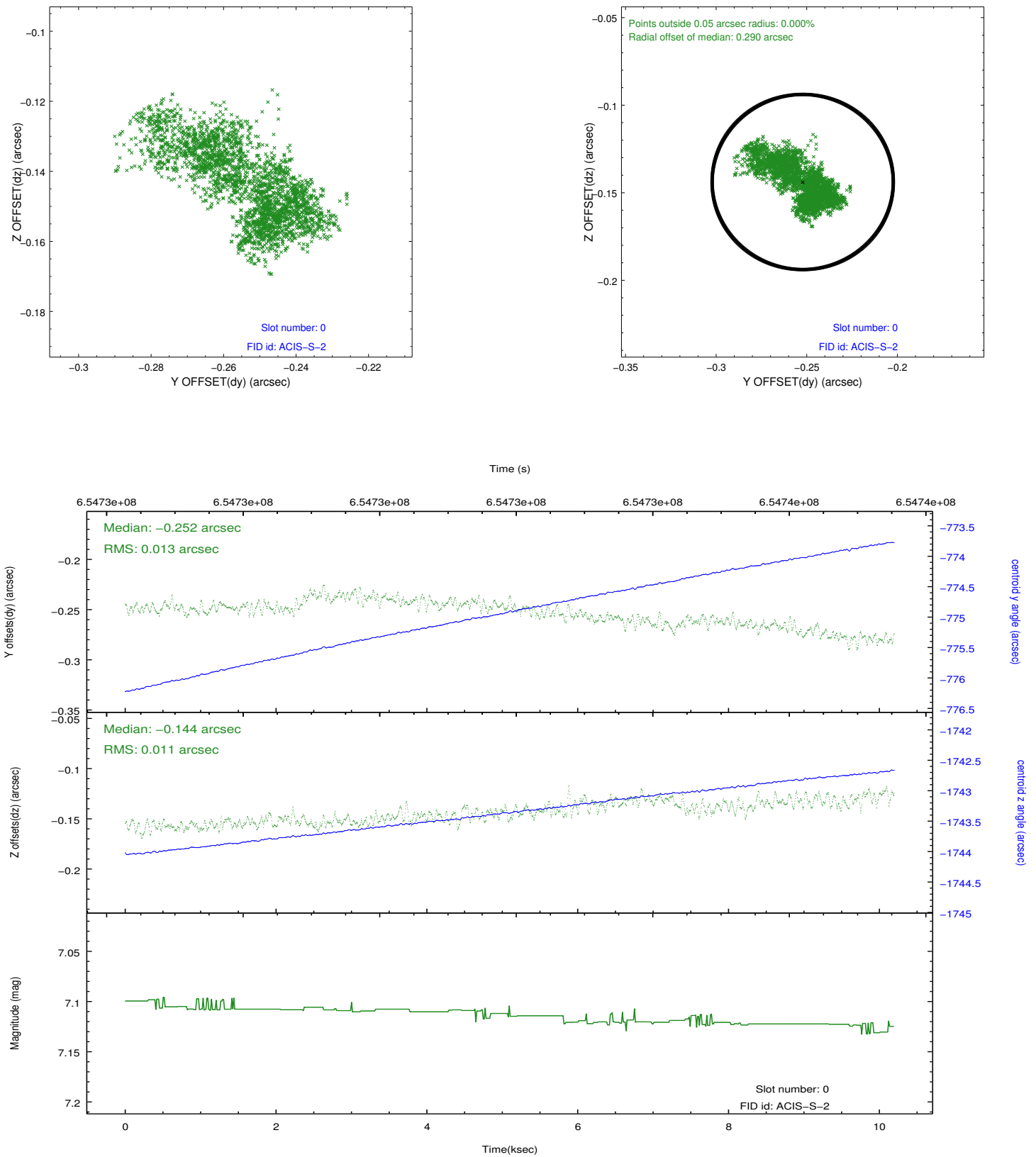


## 2.4.5 Slot 7

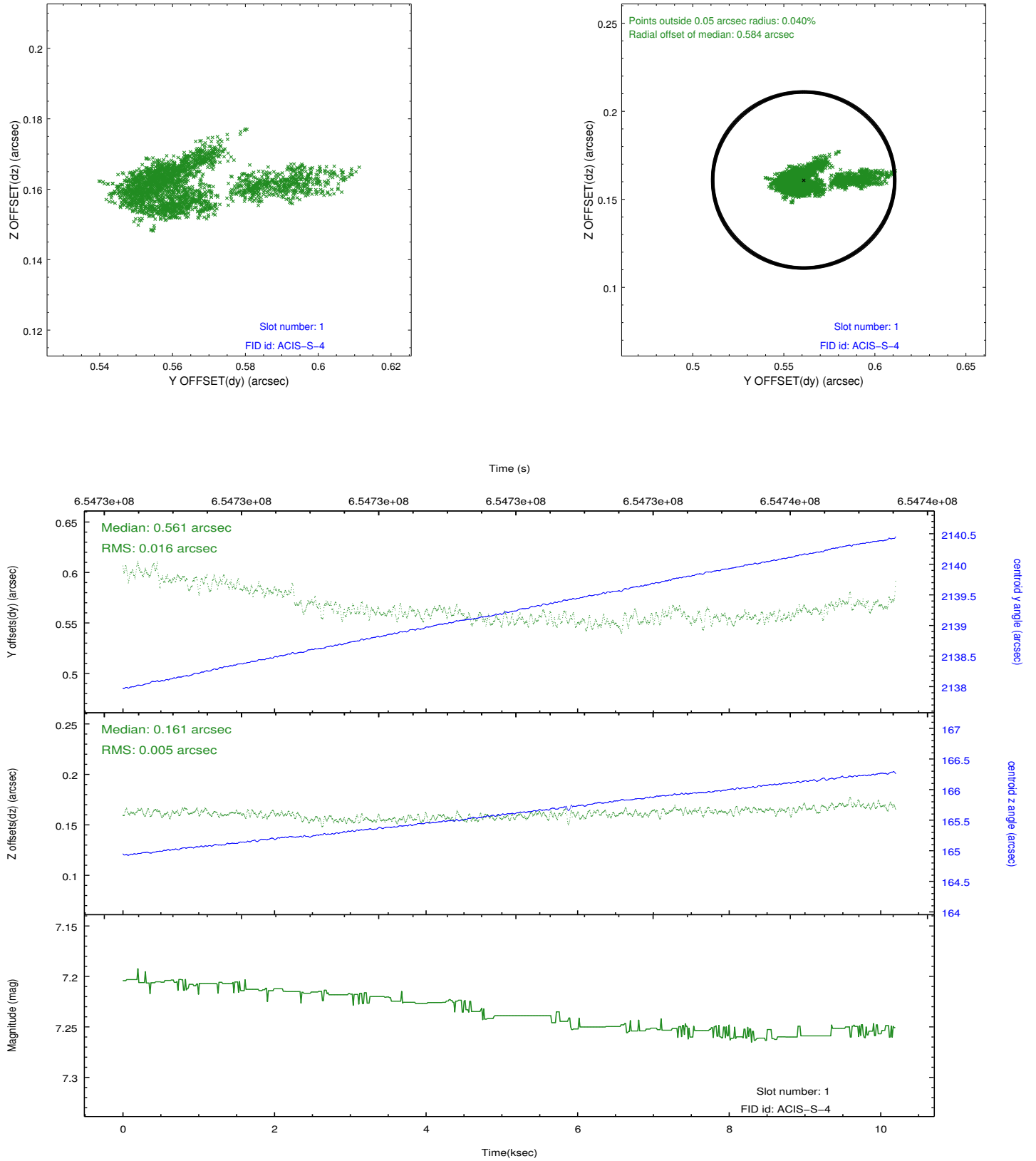


## 2.5 FID Slots

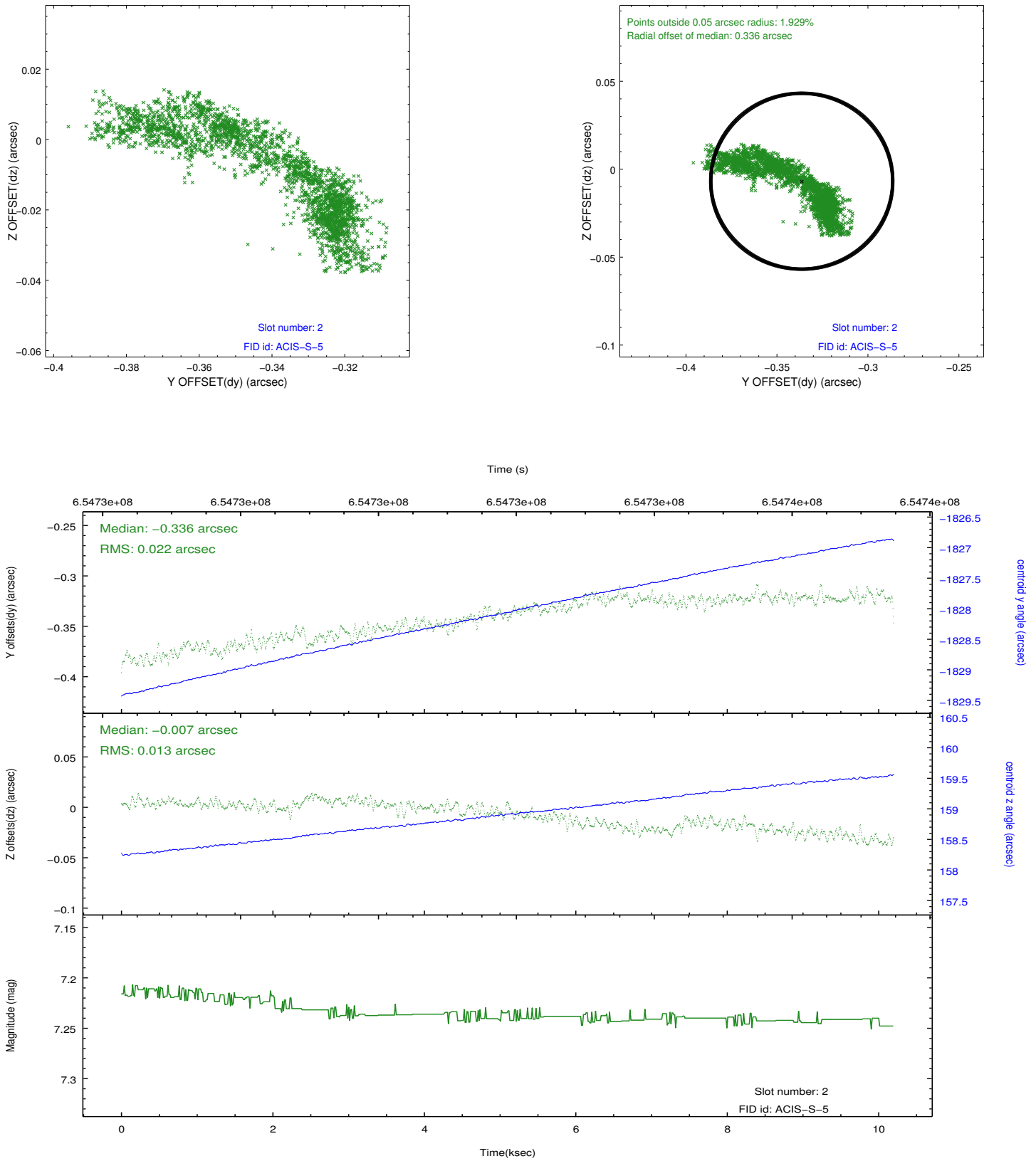
### 2.5.1 Slot 0



## 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)	2018.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.091747765541

### A.2 Comments