

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15026 - L2 Version 2  
Chandra X-Ray Center

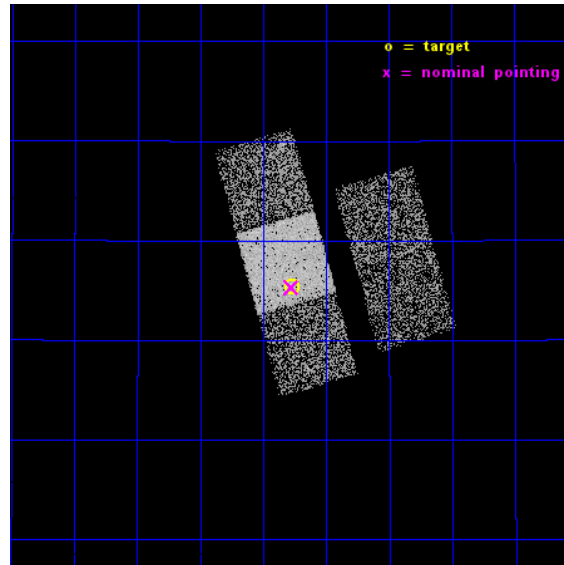
L2 Processing Date : Dec 2 2014

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

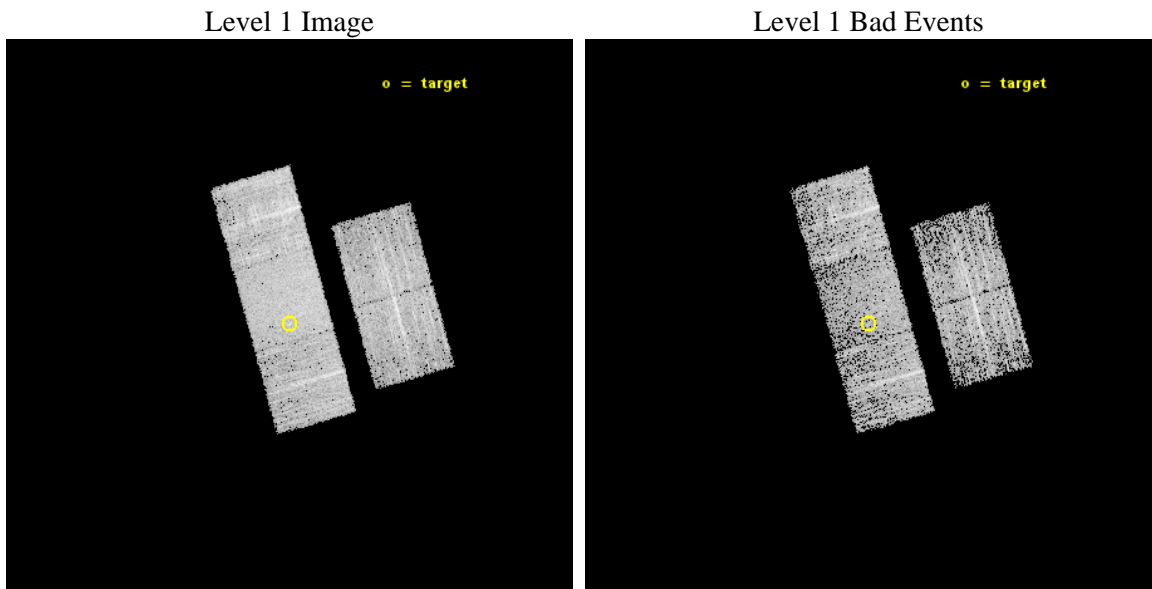
seq_num	702833	Sequence number
obs_id	15026	Observation id
title	Are Double-Peaked Optical Emission Lines Reliable Indicators of Dual AGNs?	Proposal title
observer	Dr. Claire Max	Principal investigator
object	SDSS J091646.03+283526.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.191667	Observer's specified target RA [deg]
dec_targ	28.590833	Observer's specified target Dec [deg]
ra_nom	139.19398577091	Nominal RA [deg]
dec_nom	28.58858403627	Nominal Dec [deg]
roll_nom	254.21051436579	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5068.5000389814	Sum of GTIs [s]
livetime	5002.2763545967	Livetime [s]
ontime2	5068.5000389814	Sum of GTIs [s]
ontime3	5068.5000389814	Sum of GTIs [s]
ontime6	5068.5000389814	Sum of GTIs [s]
ontime7	5068.5000389814	Sum of GTIs [s]
ontime8	5068.5000389814	Sum of GTIs [s]
l2events	26156	Number of level 2 events



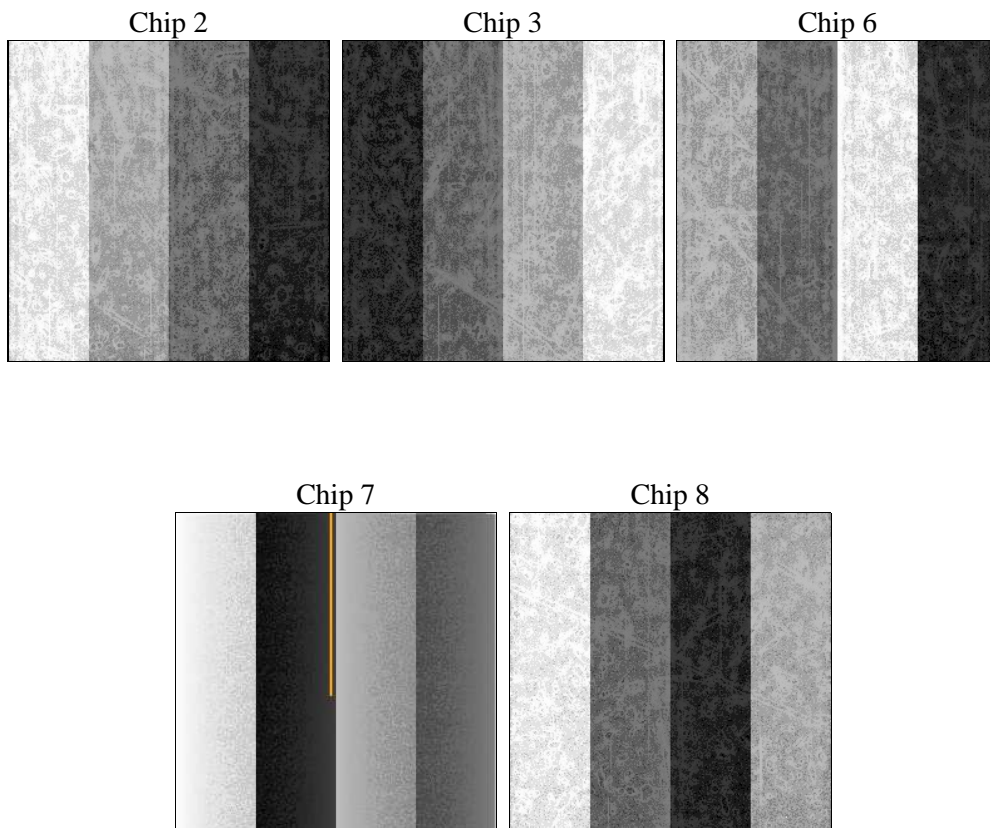
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5068.5000389814	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime2	5068.5000389814	Sum of GTIs [s]
date	2014-12-03T03:46:18	Date and time of file creation	ontime3	5068.5000389814	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5068.5000389814	Sum of GTIs [s]
			ontime7	5068.5000389814	Sum of GTIs [s]
			ontime8	5068.5000389814	Sum of GTIs [s]
			l1events	150130	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	25727	25258	27311	35545	36289
rejected events	22909	22288	23982	20138	27305
rejected %	89%	88%	87%	56%	75%

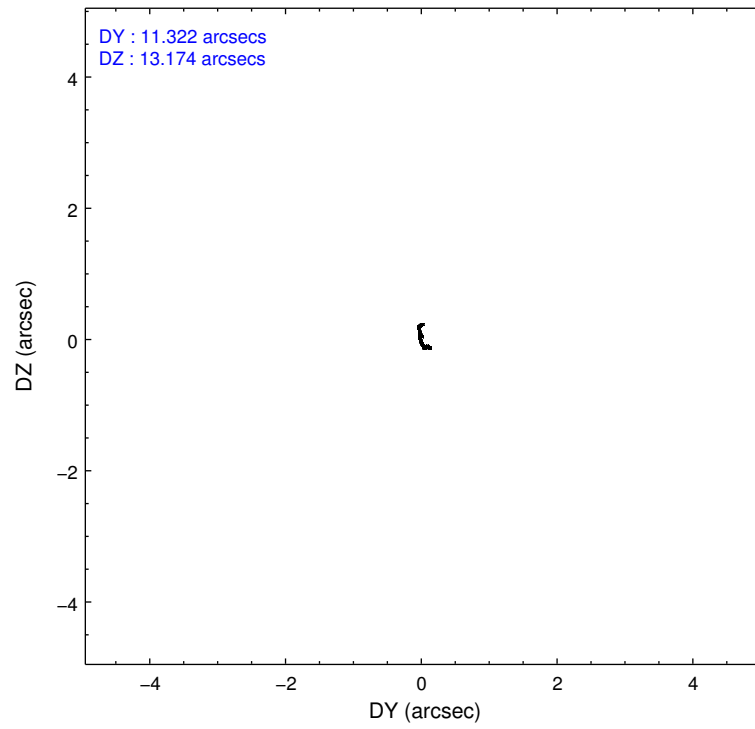
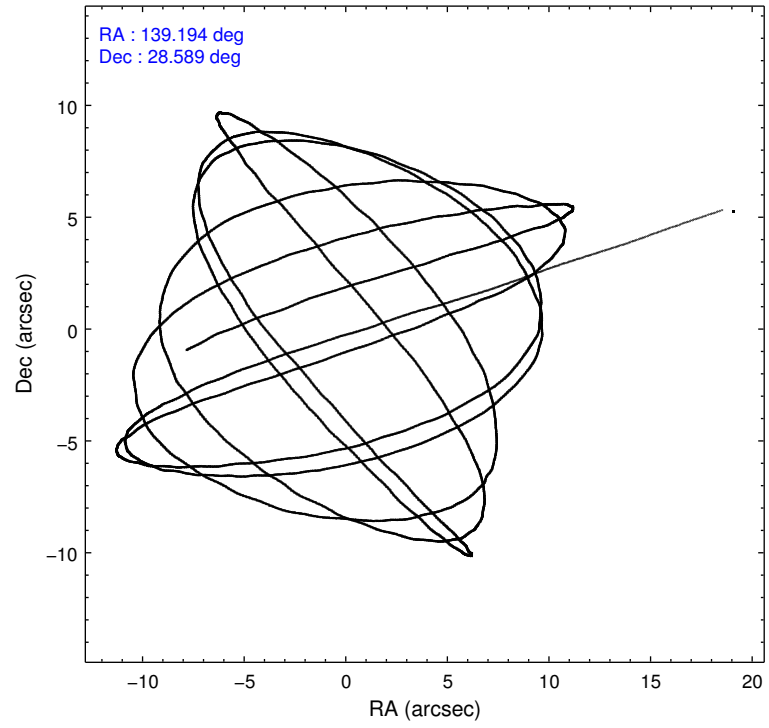
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	968	974	1184	1345	2455
	3%	3%	4%	3%	6%
grade 1 events	11	16	14	37	19
	0%	0%	0%	0%	0%
grade 2 events	671	677	758	3162	2120
	2%	2%	2%	8%	5%
grade 3 events	303	339	296	1282	958
	1%	1%	1%	3%	2%
grade 4 events	315	337	314	1286	871
	1%	1%	1%	3%	2%
grade 5 events	1113	1323	1371	3618	1936
	4%	5%	5%	10%	5%
grade 6 events	564	643	779	8340	2583
	2%	2%	2%	23%	7%
grade 7 events	21782	20949	22595	16475	25347
	84%	82%	82%	46%	69%

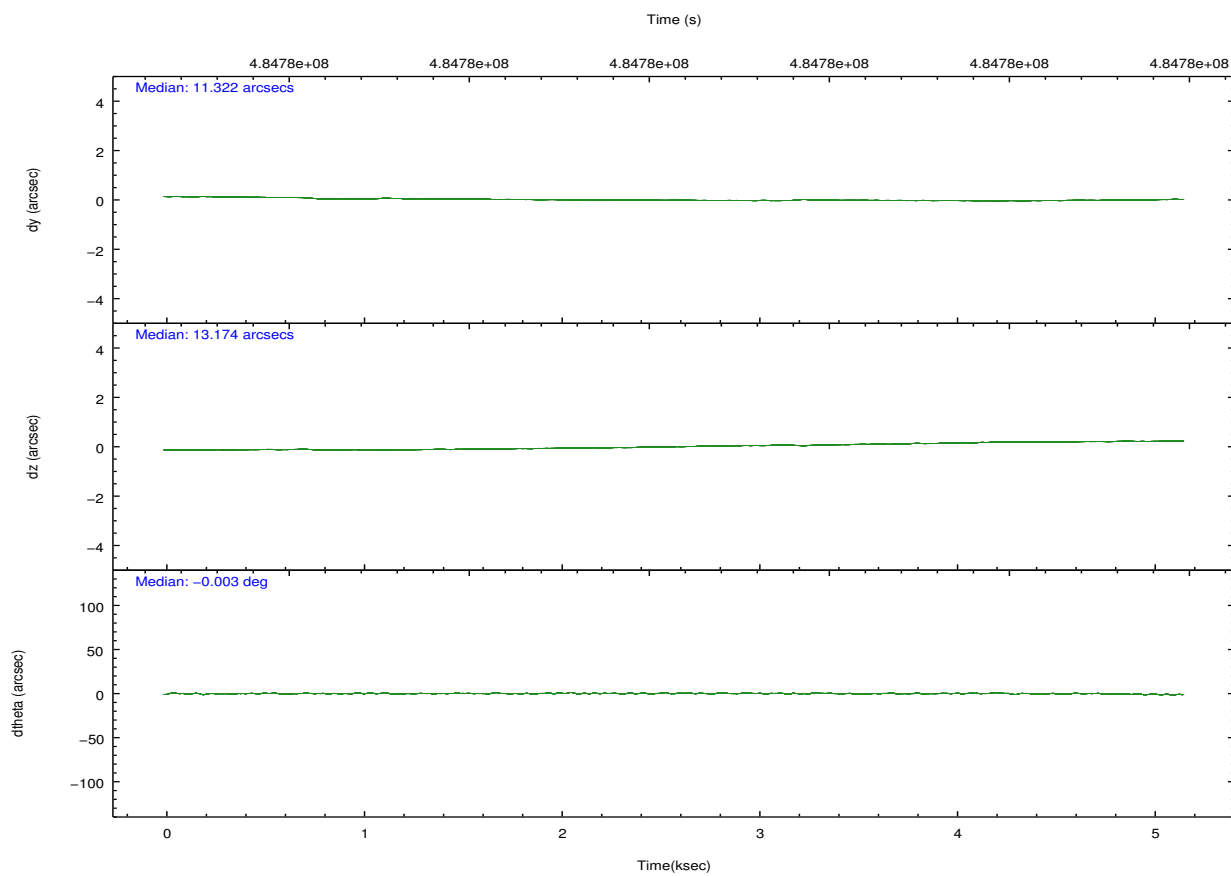
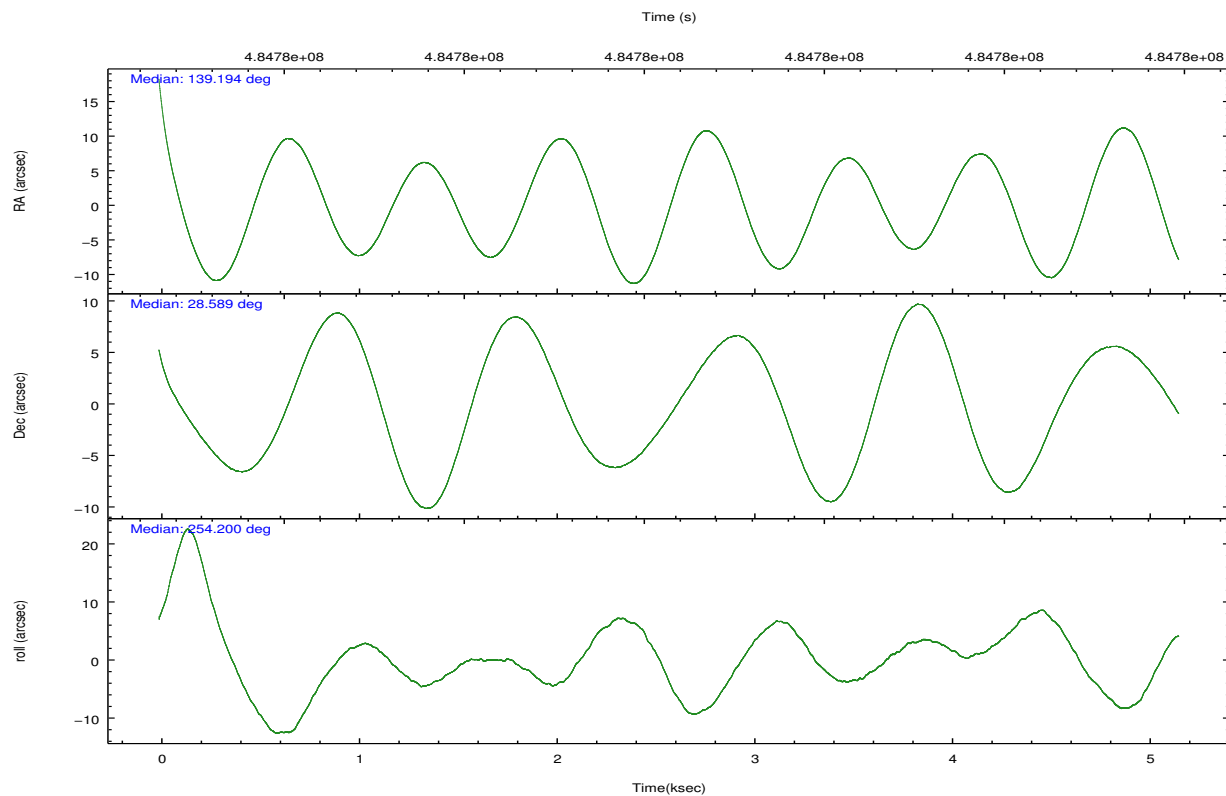


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	139.185898	139.1939857709109	CCD I2 on	O2	Y
[deg] Pointing Dec	28.614980	28.58858403626969	CCD I3 on	O3	Y
[deg] Pointing Roll	254.057779	254.2105143657939	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	484778704.184000	484777644.83218	CCD S5 on	N	N
Observation start date	2013-05-12T20:43:57	2013-05-12T20:27:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	484783704.184000	484783910.65752	On-chip summing requested	N	N
Observation end date	2013-05-12T22:07:17	2013-05-12T22:11:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



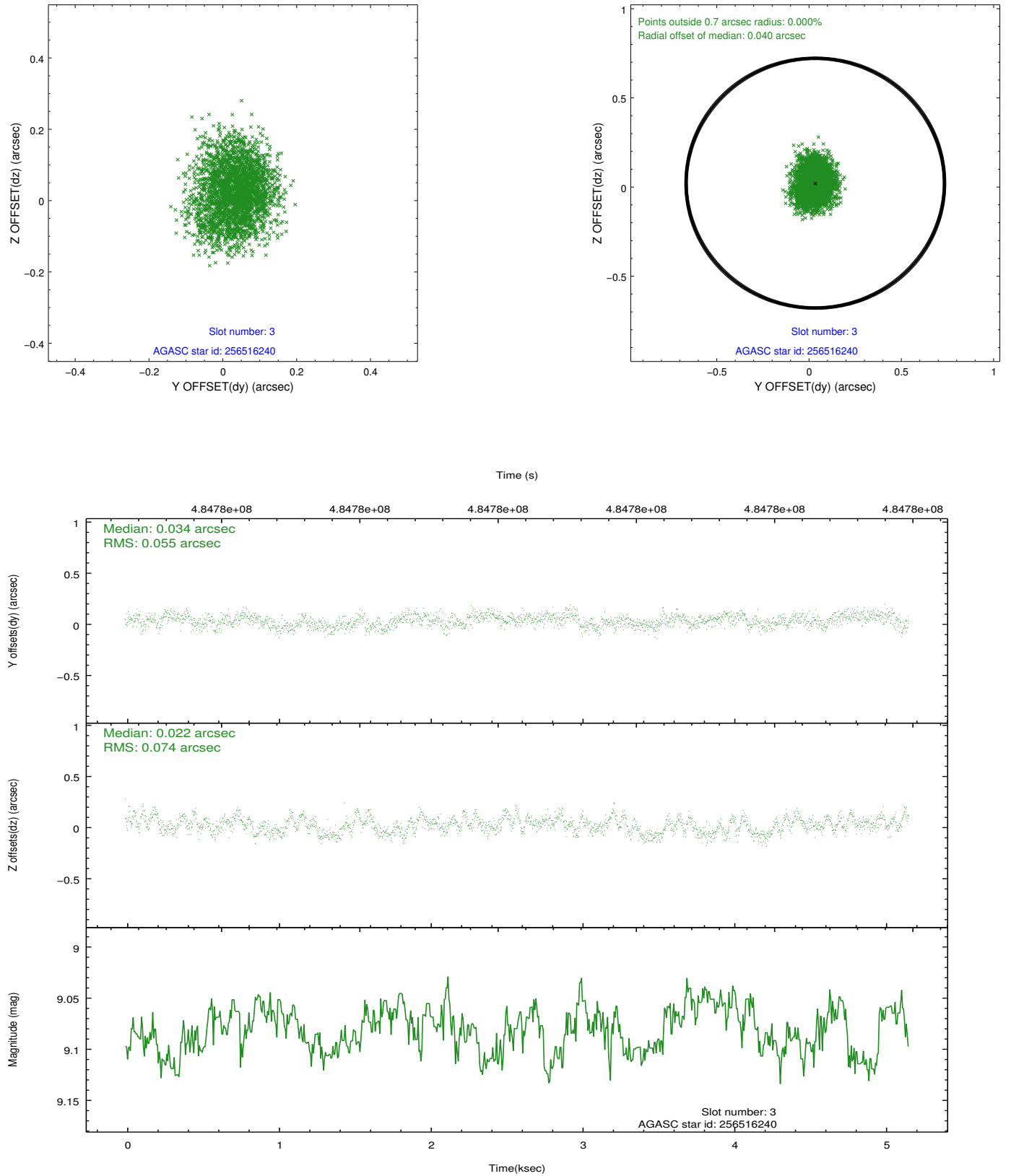


### Slot Statistics

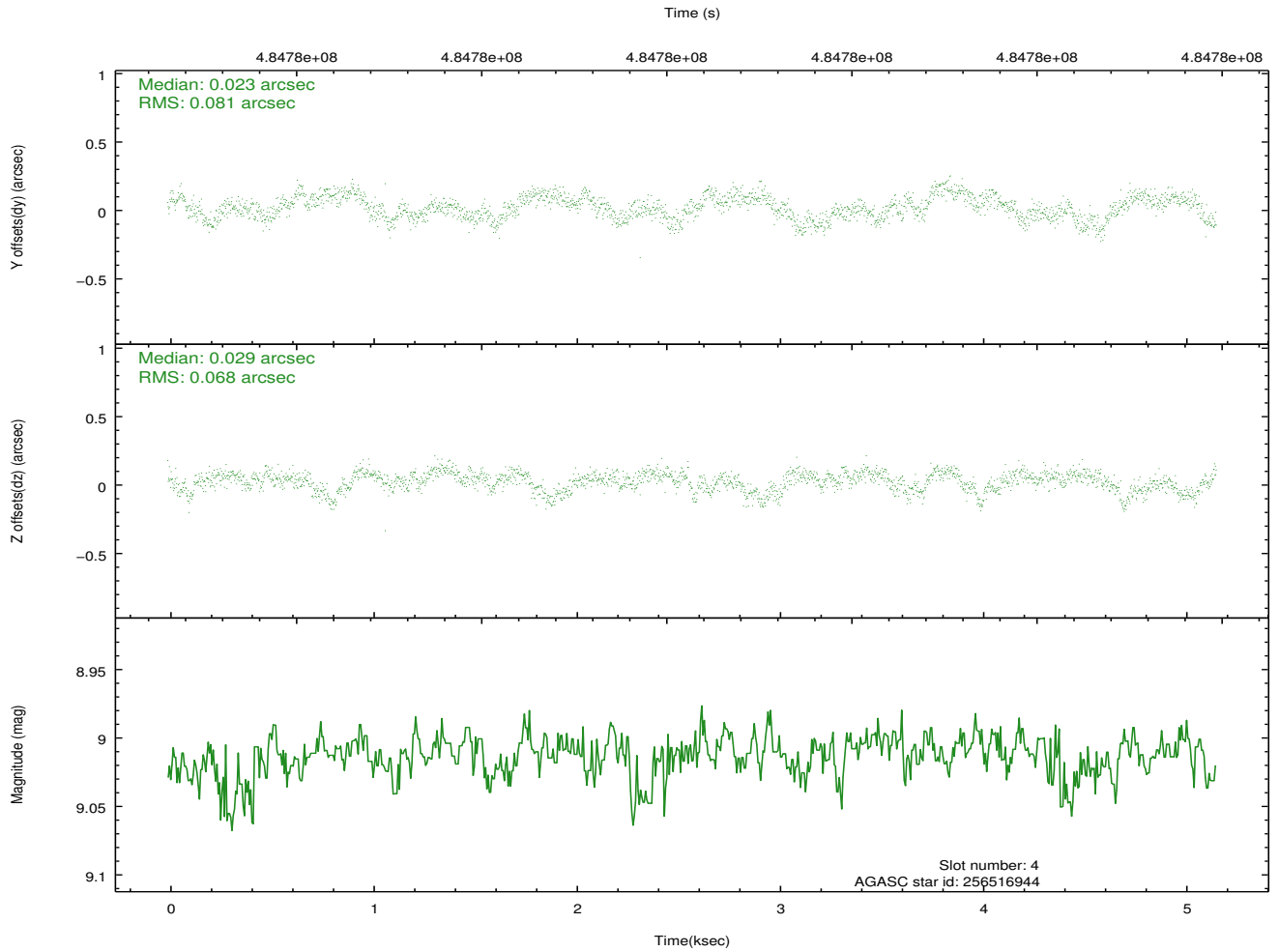
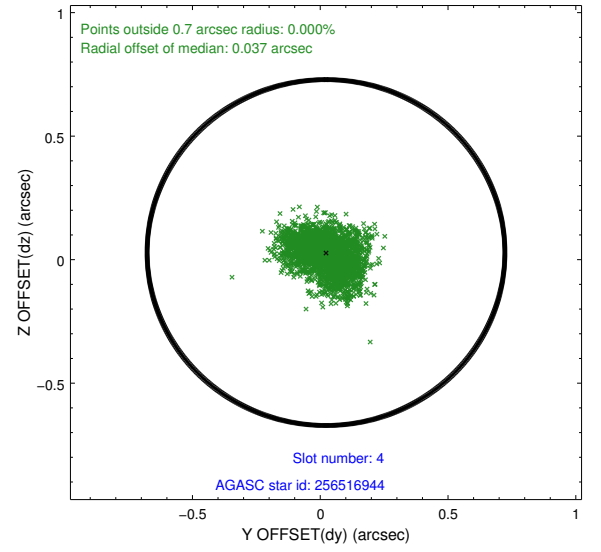
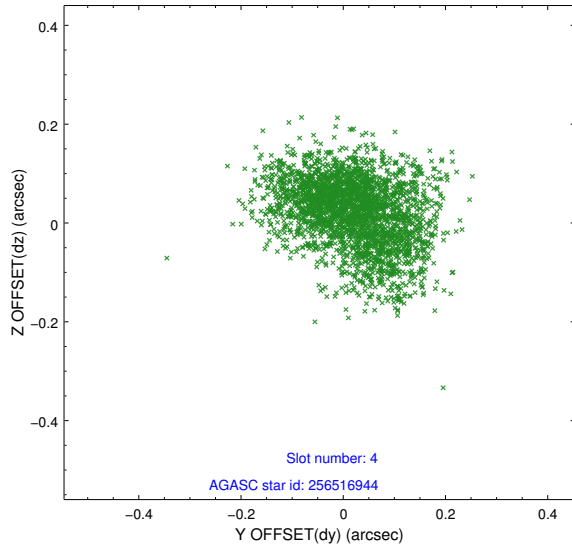
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	1259	-0.046	-0.036	0.006	0.010	0.000000	0.000000	-764.29	-1734.49
1	FID		ACIS-S-4	7.11	1259	0.158	0.032	0.005	0.009	0.000000	0.000000	2148.69	172.79
2	FID		ACIS-S-5	7.15	1259	-0.144	0.013	0.006	0.010	0.000000	0.000000	-1815.68	167.85
3	GUIDE	used	256516240	9.08	2517	0.034	0.022	0.100	0.156	139.510318	28.148239	1331.76	1451.43
4	GUIDE	used	256516944	9.01	2518	0.023	0.029	0.114	0.181	138.992589	28.237877	1474.50	-215.96
5	GUIDE	used	256518952	9.06	2513	0.005	-0.029	0.130	0.201	139.316674	27.911817	2320.65	1095.38
6	GUIDE	used	256518984	9.55	2514	0.074	-0.251	0.154	0.257	138.583102	28.209394	1926.39	-1438.73
7	GUIDE	used	256647344	9.04	2515	-0.128	0.241	0.135	0.217	139.729850	28.272641	708.37	1995.36

## 2.4 Star Slots

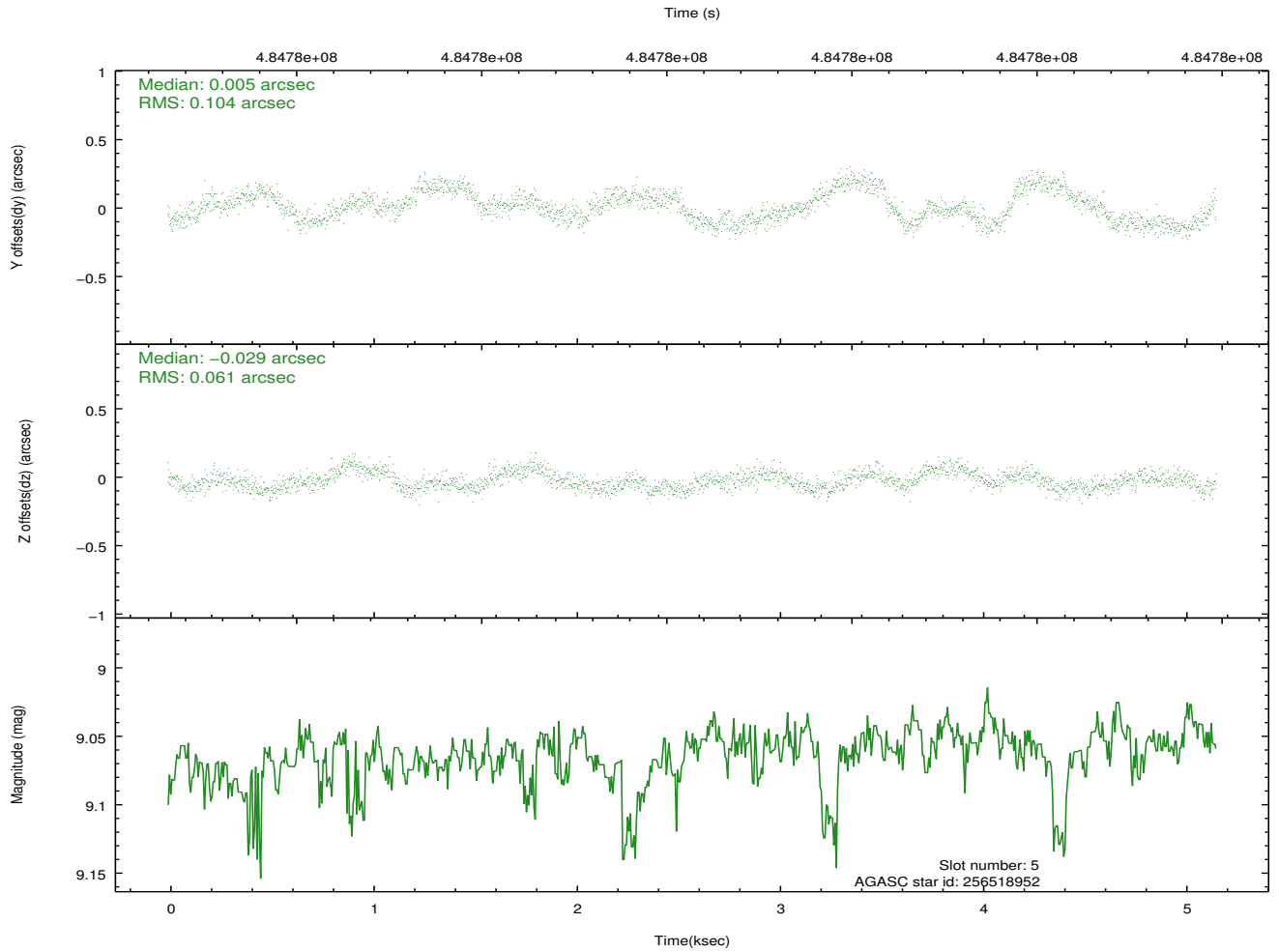
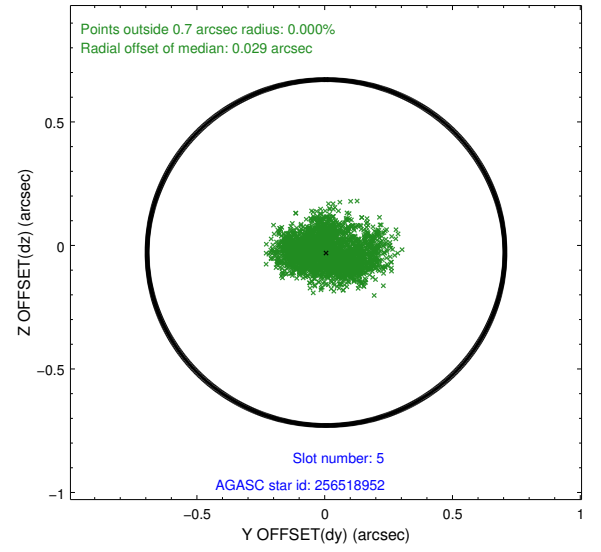
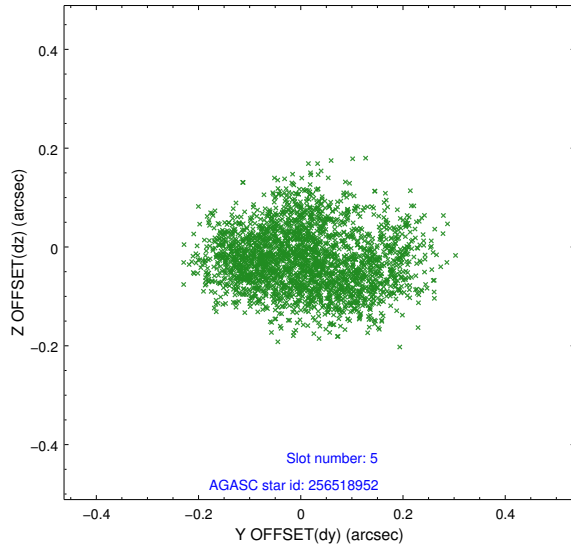
### 2.4.1 Slot 3



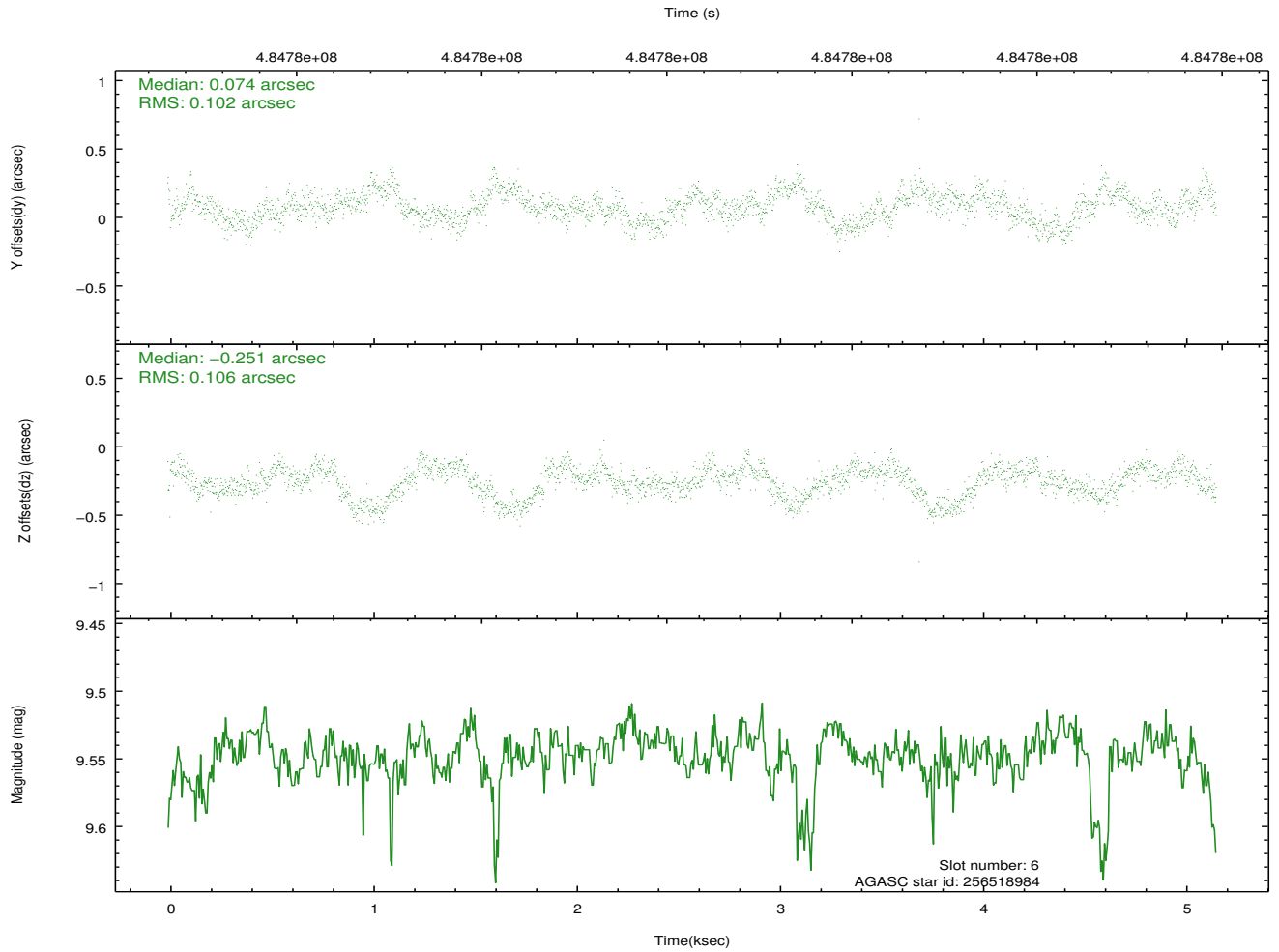
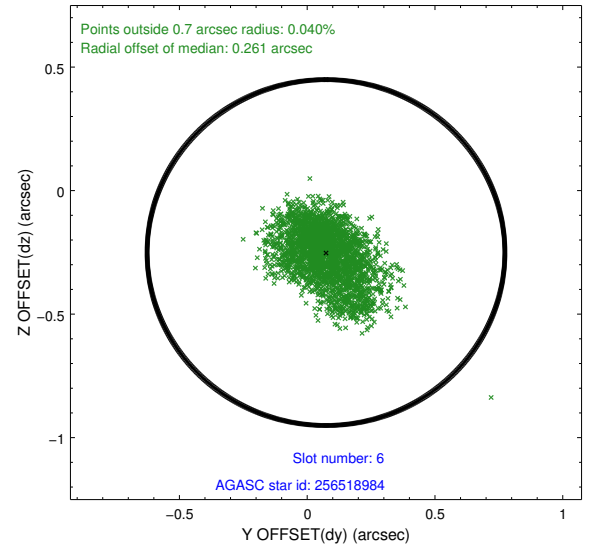
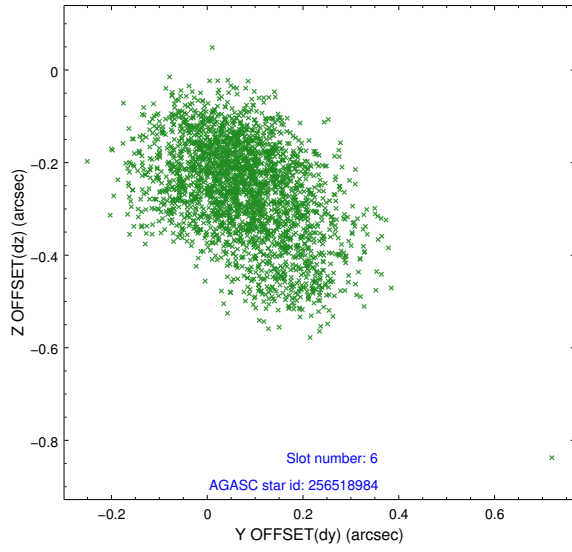
## 2.4.2 Slot 4



### 2.4.3 Slot 5

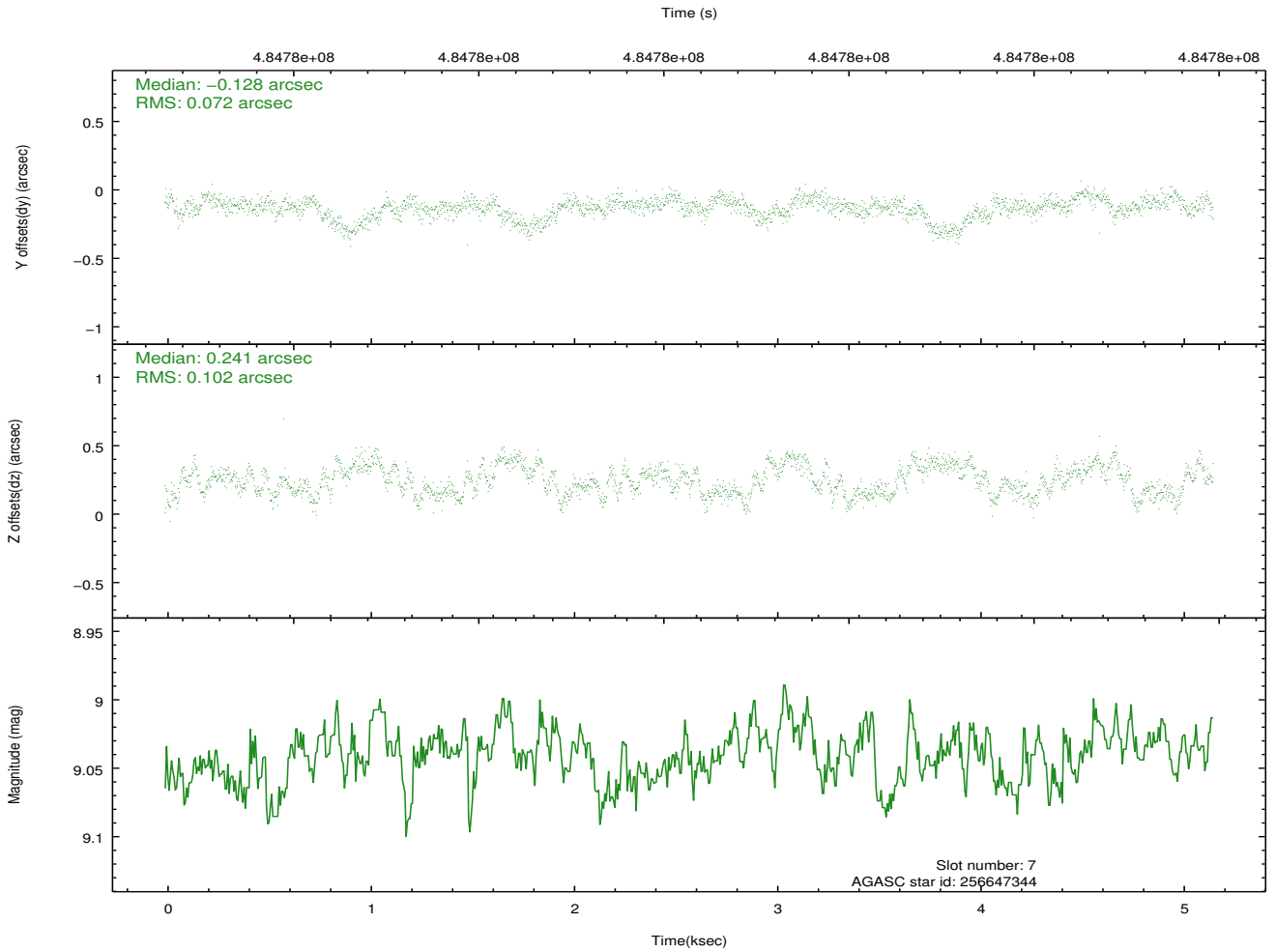
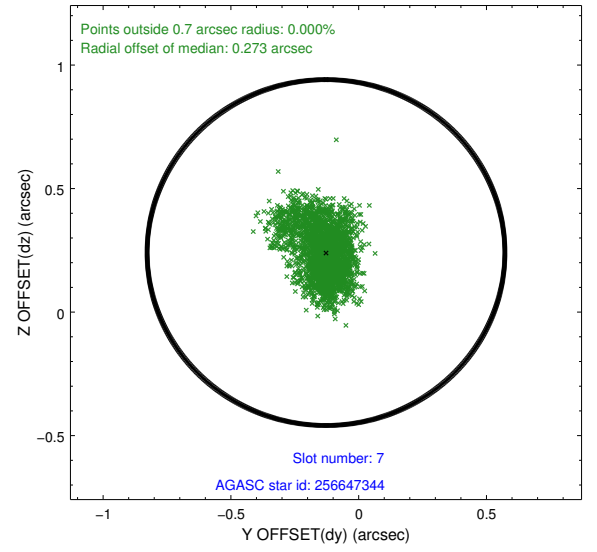
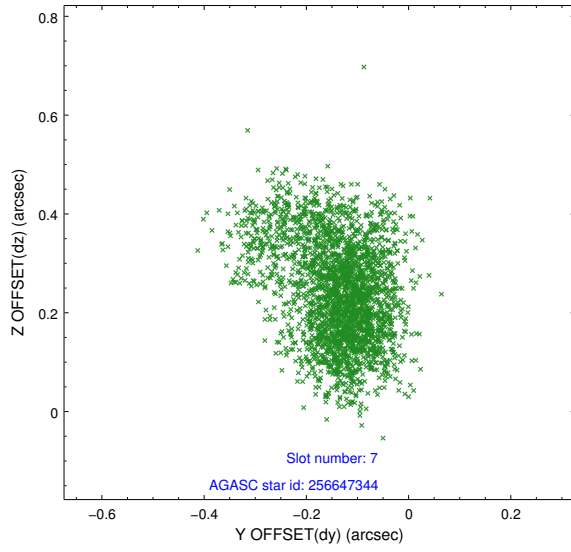


## 2.4.4 Slot 6



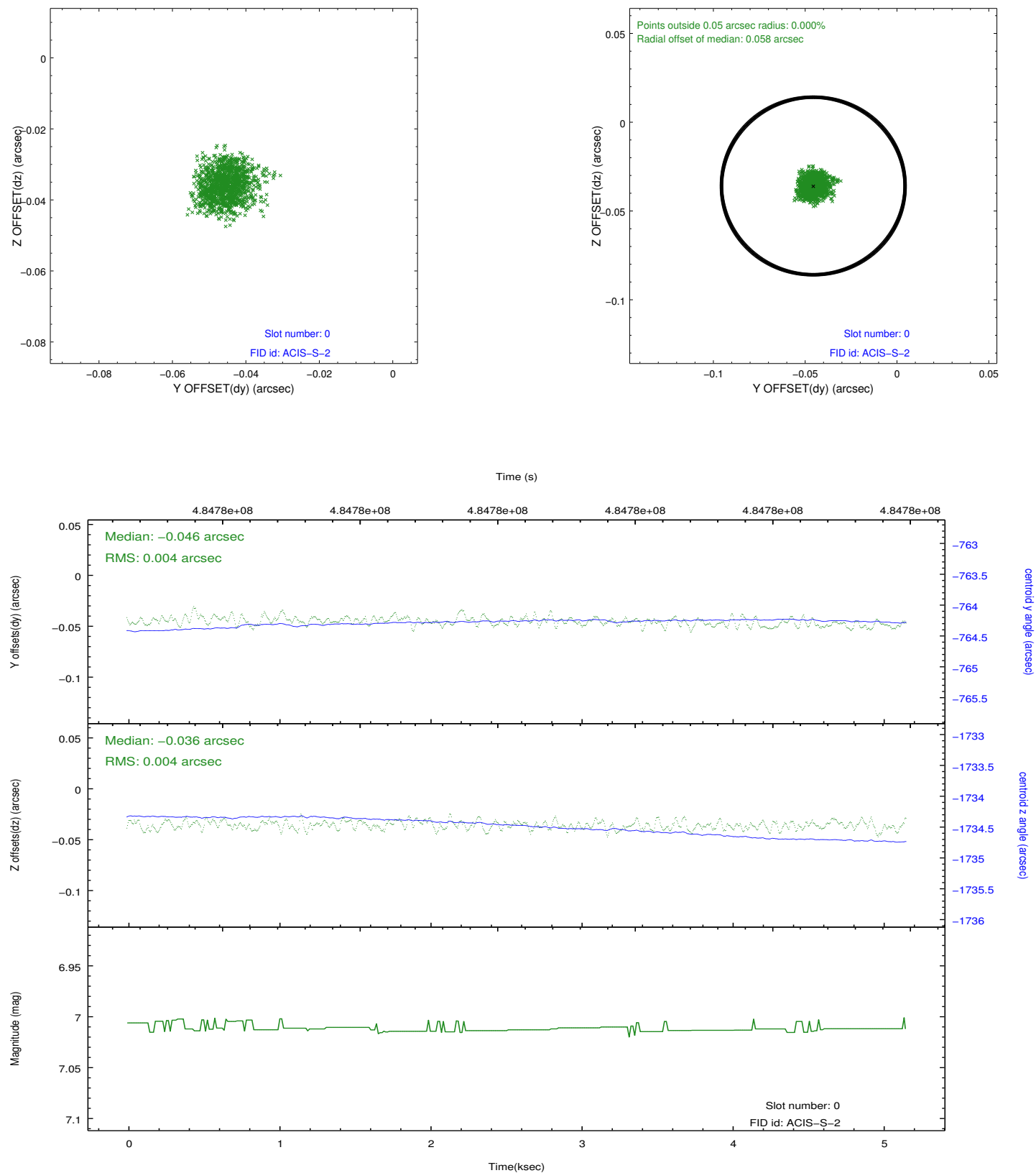


## 2.4.5 Slot 7

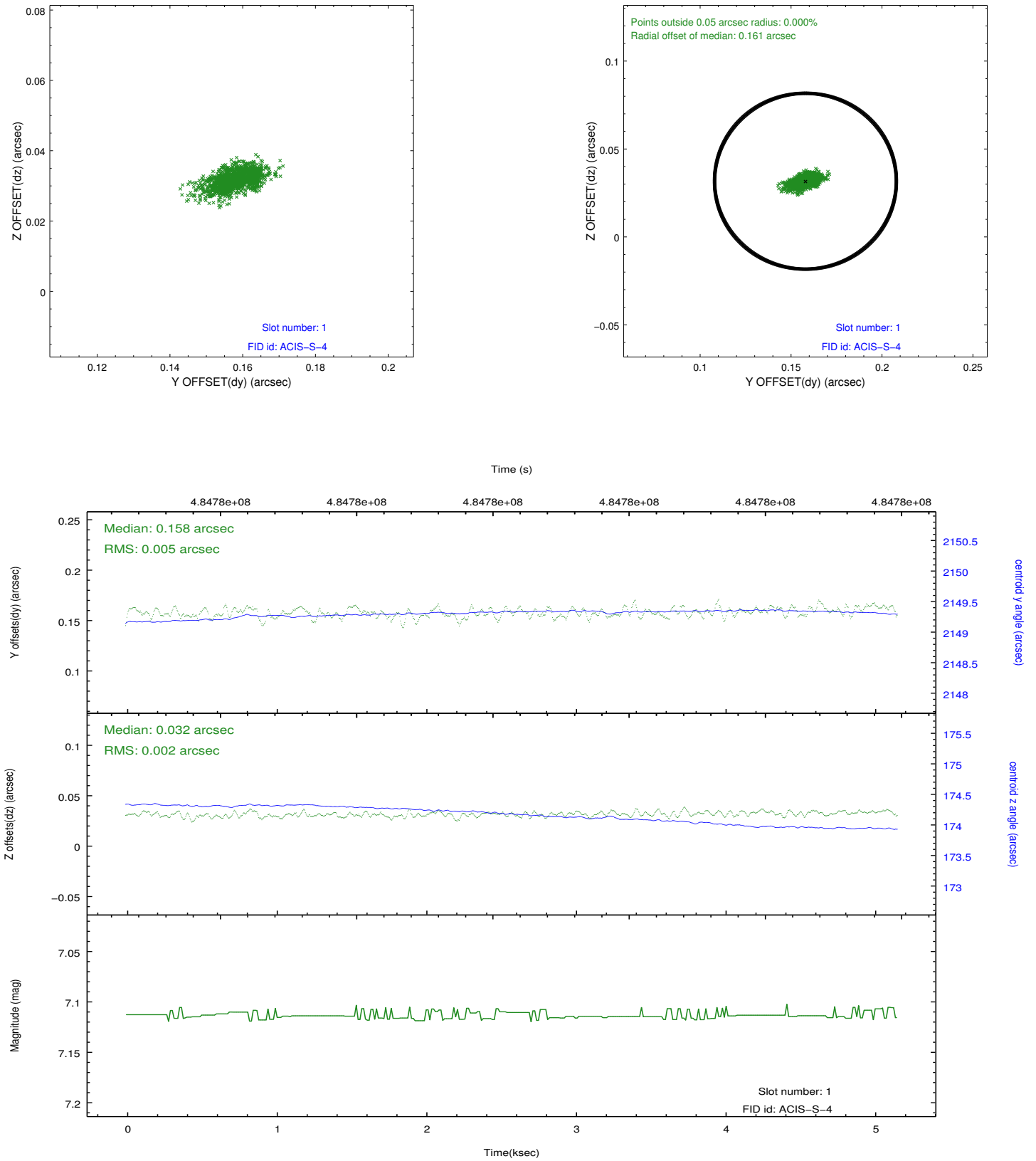


## 2.5 FID Slots

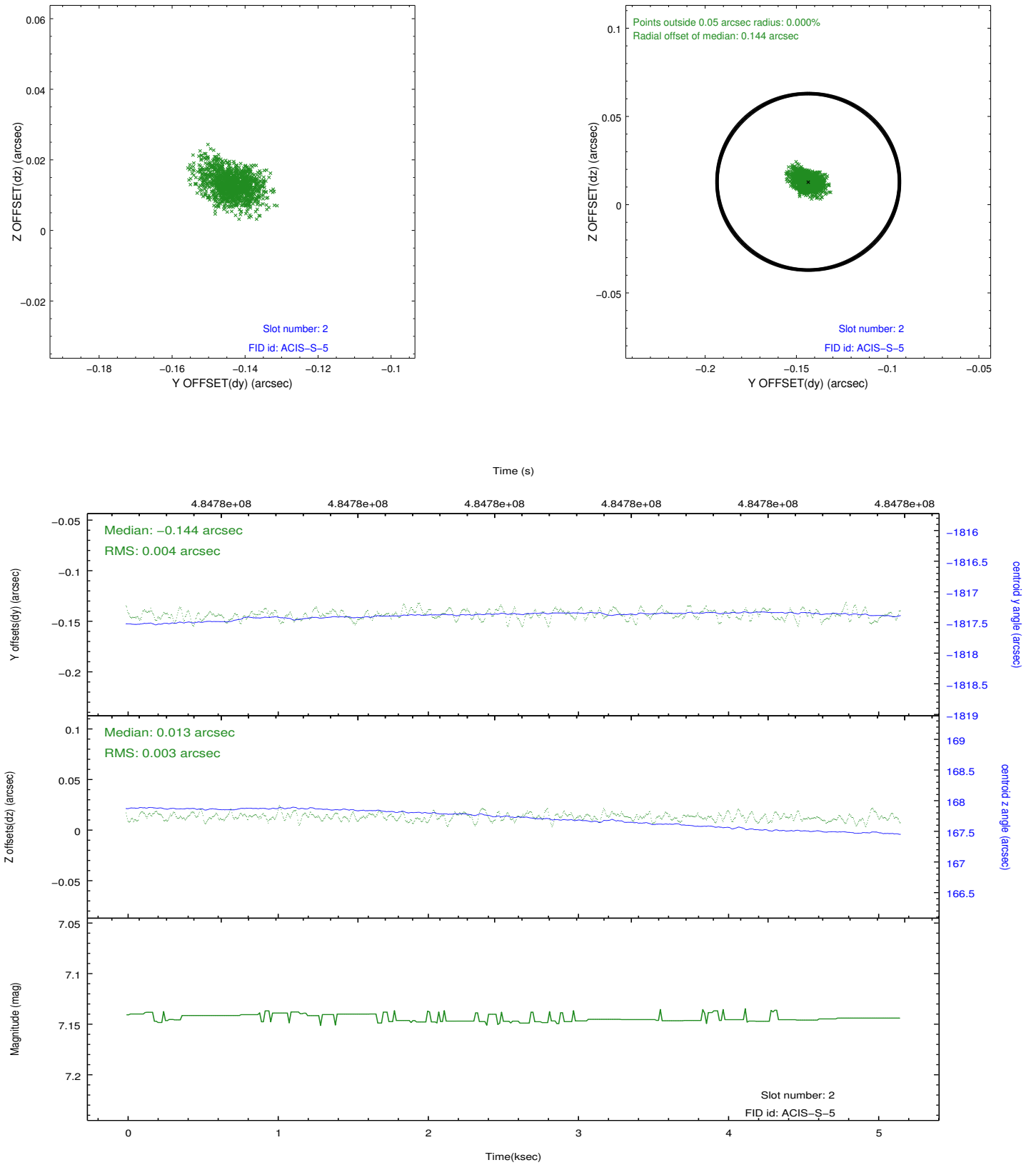
### 2.5.1 Slot 0



## 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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0685000389814

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.