

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9242 - L2 Version 2  
Chandra X-Ray Center

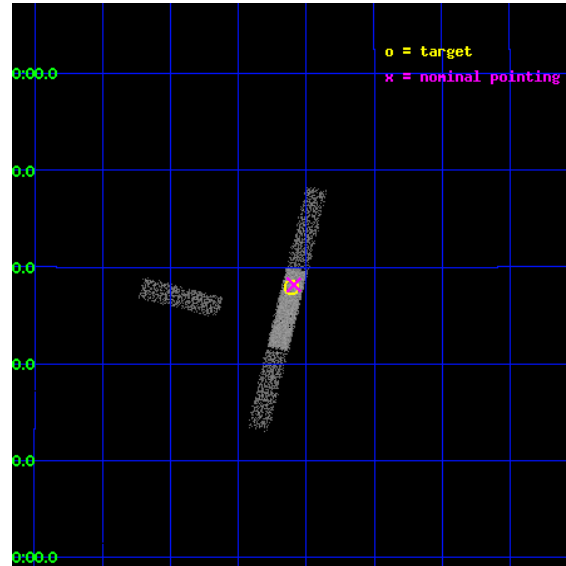
L2 Processing Date : May 15 2012

## 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

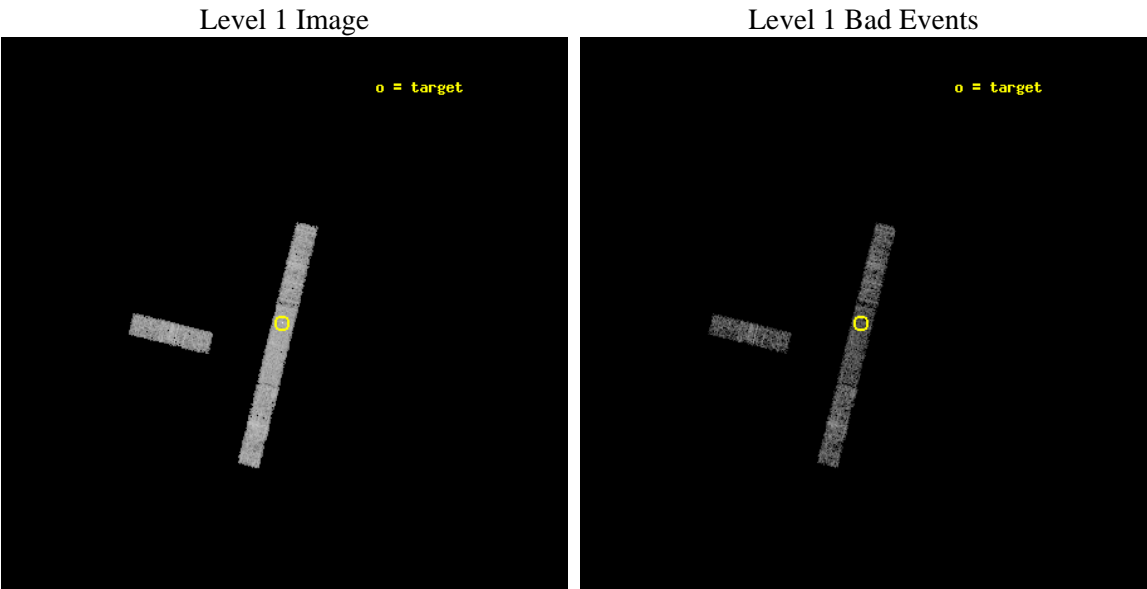
seq_num	701683	Sequence number
obs_id	9242	Observation id
title	Orientation effects in the X-ray and multi-wavelength properties of high-z, 3CRR quasars.	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	3CRR 14	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	9.026667	Observer's specified target RA [deg]
dec_targ	18.632972	Observer's specified target Dec [deg]
ra_nom	9.0230699982911	Nominal RA [deg]
dec_nom	18.636456245166	Nominal Dec [deg]
roll_nom	103.92478626545	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3126.0	Sum of GTIs [s]
livetime	3002.7664643049	Livetime [s]
ontime3	3126.0	Sum of GTIs [s]
ontime6	3126.0	Sum of GTIs [s]
ontime7	3126.0	Sum of GTIs [s]
ontime8	3126.0	Sum of GTIs [s]
l2events	7639	Number of level 2 events



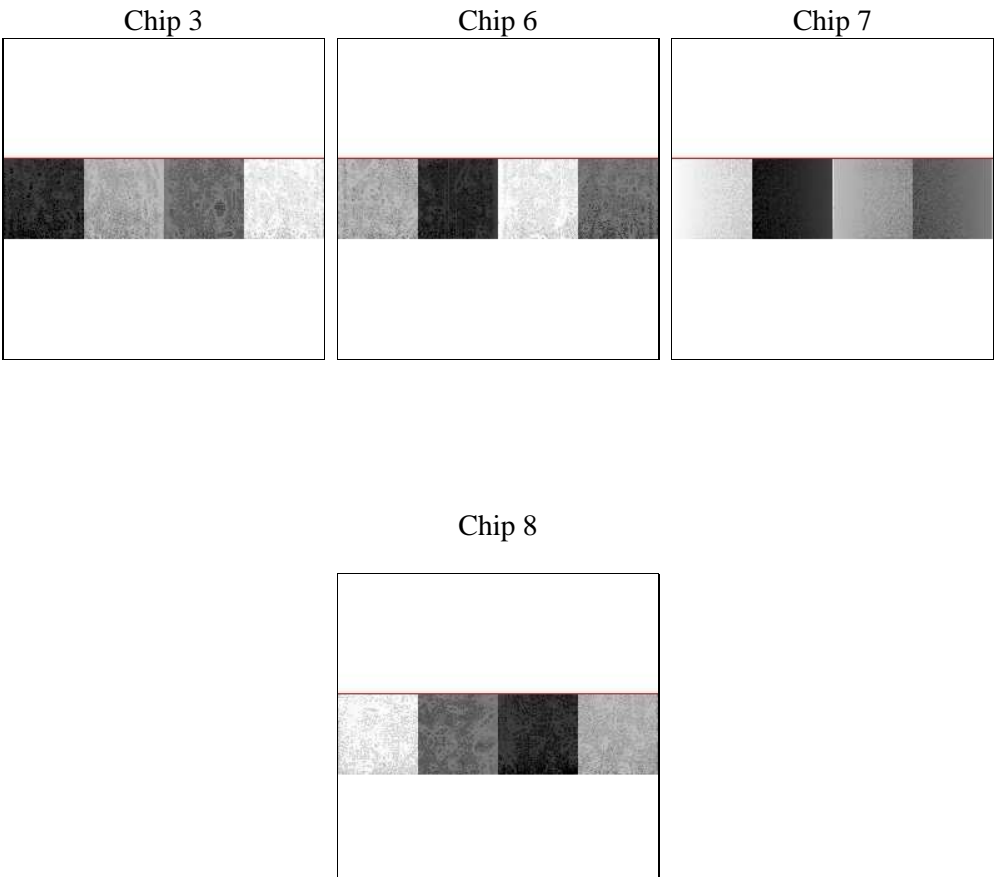
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3126.0	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime3	3126.0	Sum of GTIs [s]
date	2012-05-15T15:41:05	Date and time of file creation	ontime6	3126.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	3126.0	Sum of GTIs [s]
			ontime8	3126.0	Sum of GTIs [s]
			l1events	53583	Number of level 1 events

### 2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	11293	12397	15118	14775
rejected events	10272	11352	10020	12576
rejected %	90%	91%	66%	85%

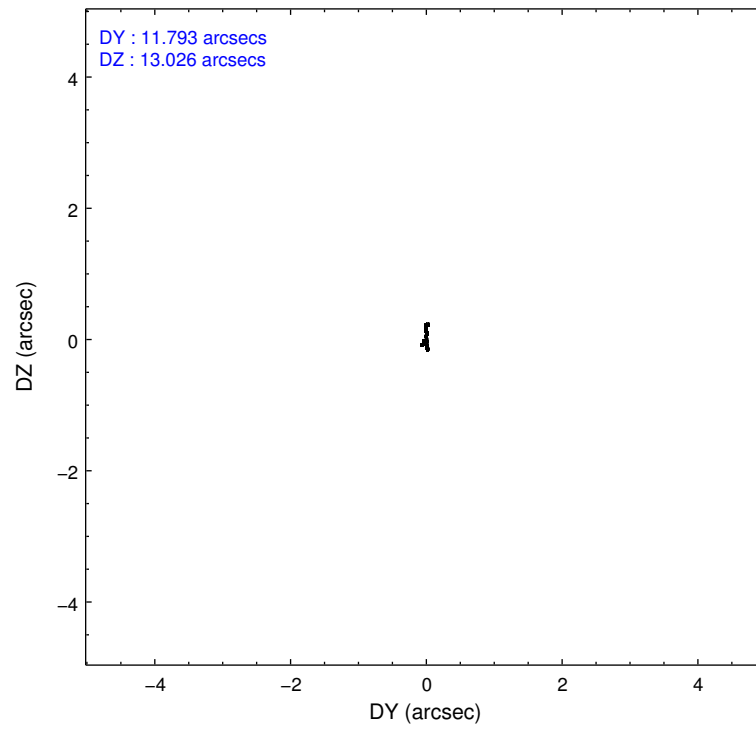
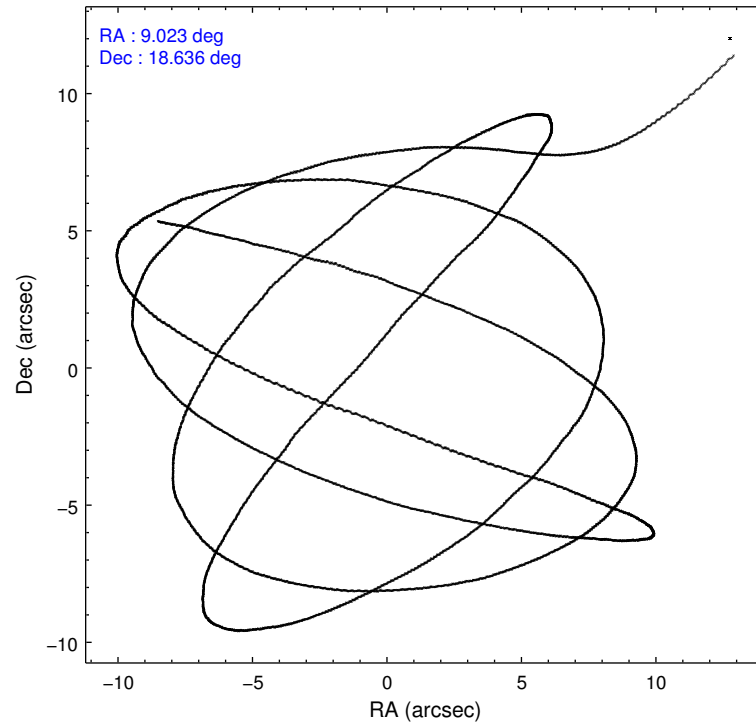
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	512	485	728	938
	4%	3%	4%	6%
grade 1 events	4	8	15	7
	0%	0%	0%	0%
grade 2 events	259	290	1492	661
	2%	2%	9%	4%
grade 3 events	201	189	709	294
	1%	1%	4%	1%
grade 4 events	179	190	645	290
	1%	1%	4%	1%
grade 5 events	488	485	1468	631
	4%	3%	9%	4%
grade 6 events	245	257	3233	836
	2%	2%	21%	5%
grade 7 events	9405	10493	6828	11118
	83%	84%	45%	75%

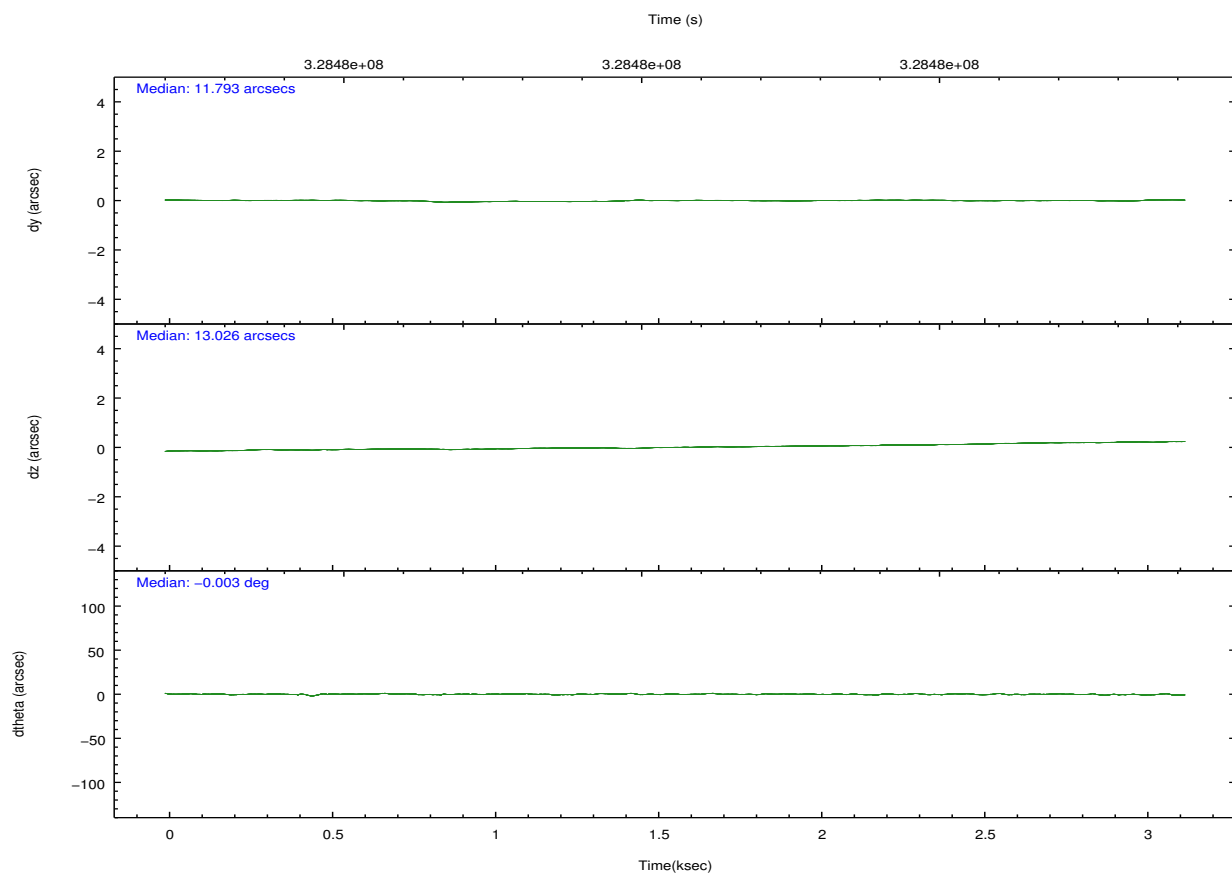
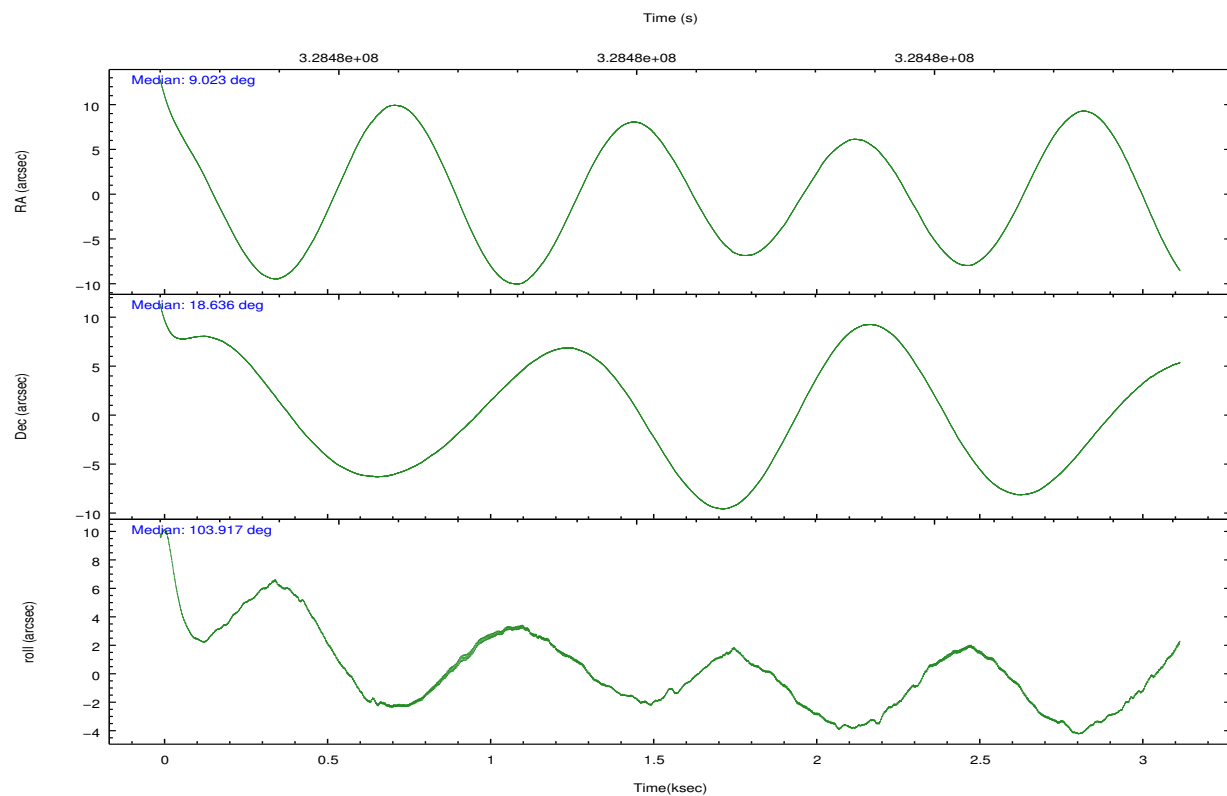
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3678	ACIS-3678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	9.043314	9.023069998291135
[deg] Pointing Dec	18.616932	18.63645624516618
[deg] Pointing Roll	103.761665	103.9247862654466
[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)	328478674.184000	328477432.9822
Observation start date	2008-05-29T20:03:29	2008-05-29T19:43:52
[s] Observation end time (MET)	328481674.184000	328482786.04497
Observation end date	2008-05-29T20:53:29	2008-05-29T21:13:06
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O3	Y
CCD S3 on	Y	Y
CCD S4 on	O2	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

## 2.3 Aspect





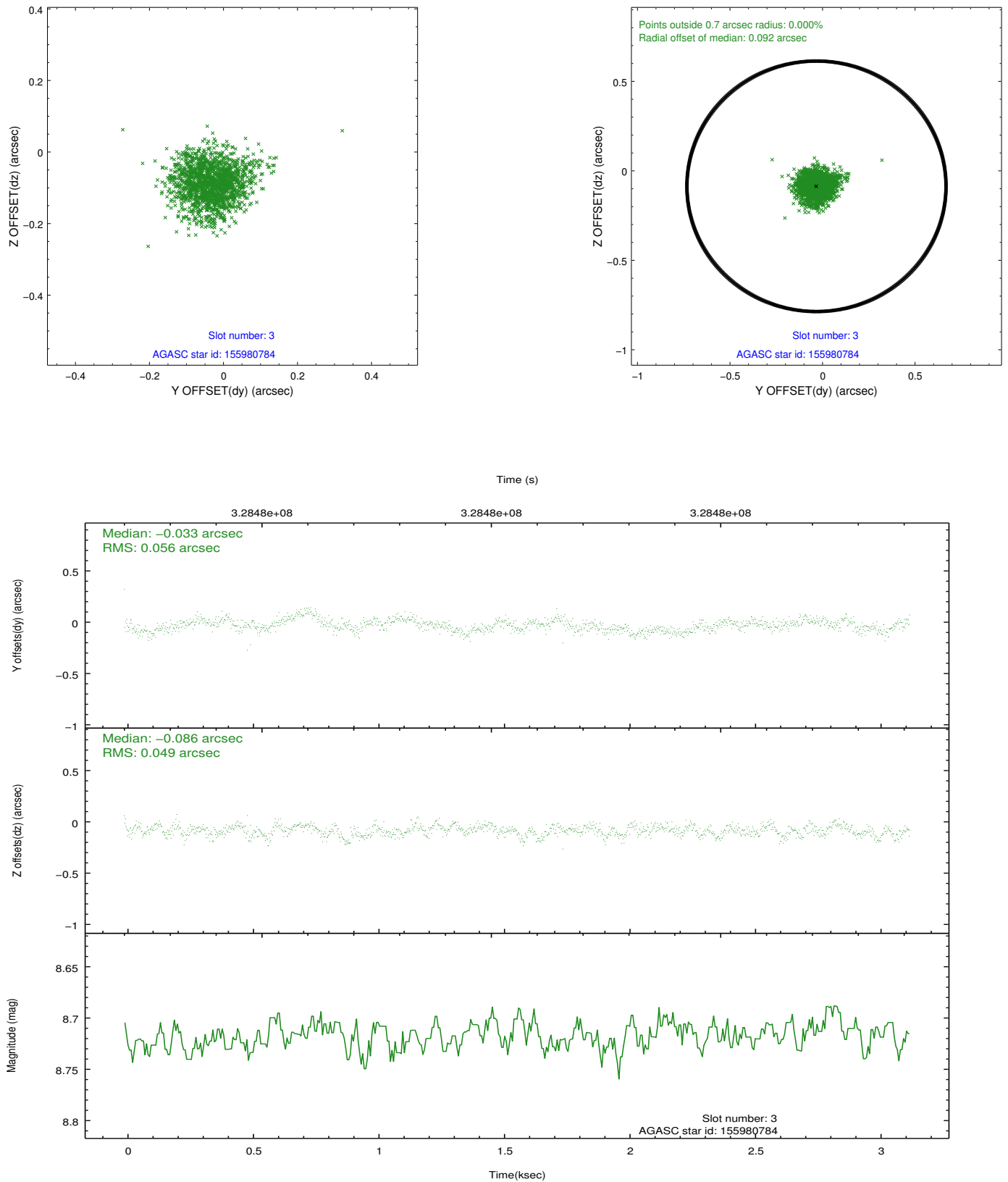
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	763	-0.020	-0.016	0.007	0.012	0.000000	0.000000	-764.71	-1734.33
1	FID	ACIS-S-4	6.99	763	0.090	0.014	0.006	0.013	0.000000	0.000000	2147.77	172.04
2	FID	ACIS-S-5	7.02	763	-0.102	0.011	0.007	0.012	0.000000	0.000000	-1815.00	168.07
3	GUIDE	155980784	8.72	1526	-0.033	-0.086	0.079	0.124	8.486301	18.788064	1052.01	1696.89
4	GUIDE	155982248	9.45	1526	-0.181	0.257	0.107	0.175	9.546683	19.271454	1884.96	-2220.78
5	GUIDE	155985792	8.74	1522	0.182	0.312	0.071	0.113	9.346379	18.172941	-1796.92	-627.93
6	GUIDE	155985888	8.36	1525	-0.093	-0.046	0.062	0.105	8.612937	19.083305	1979.32	1022.29
7	GUIDE	155985432	8.77	1525	0.121	-0.437	0.082	0.128	8.475679	18.032717	-1576.62	2387.41

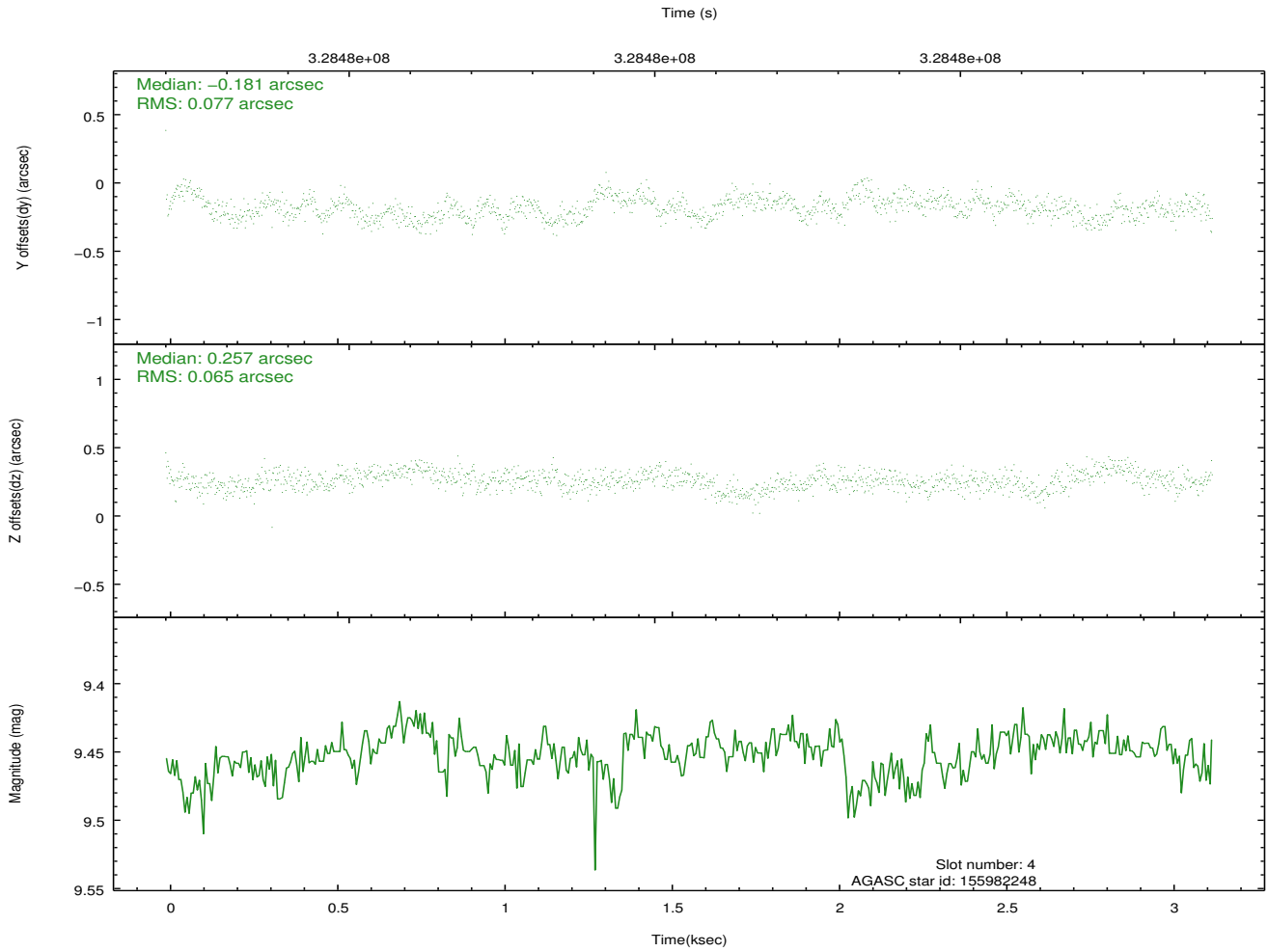
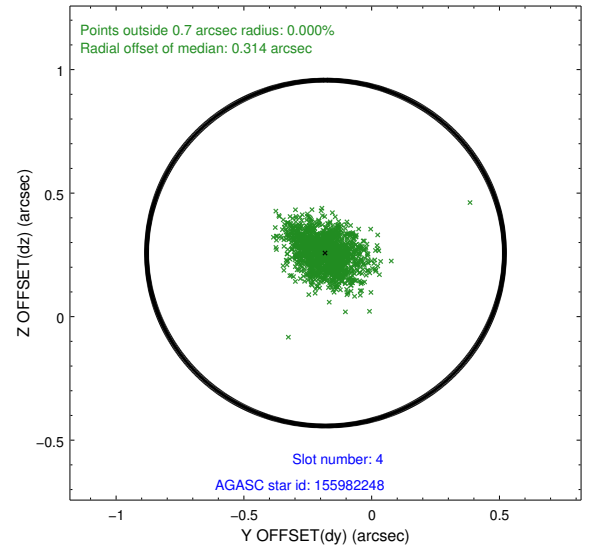
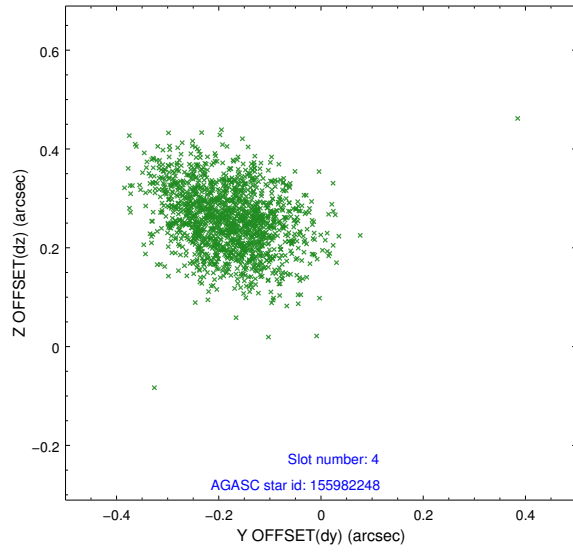


## 2.4 Star Slots

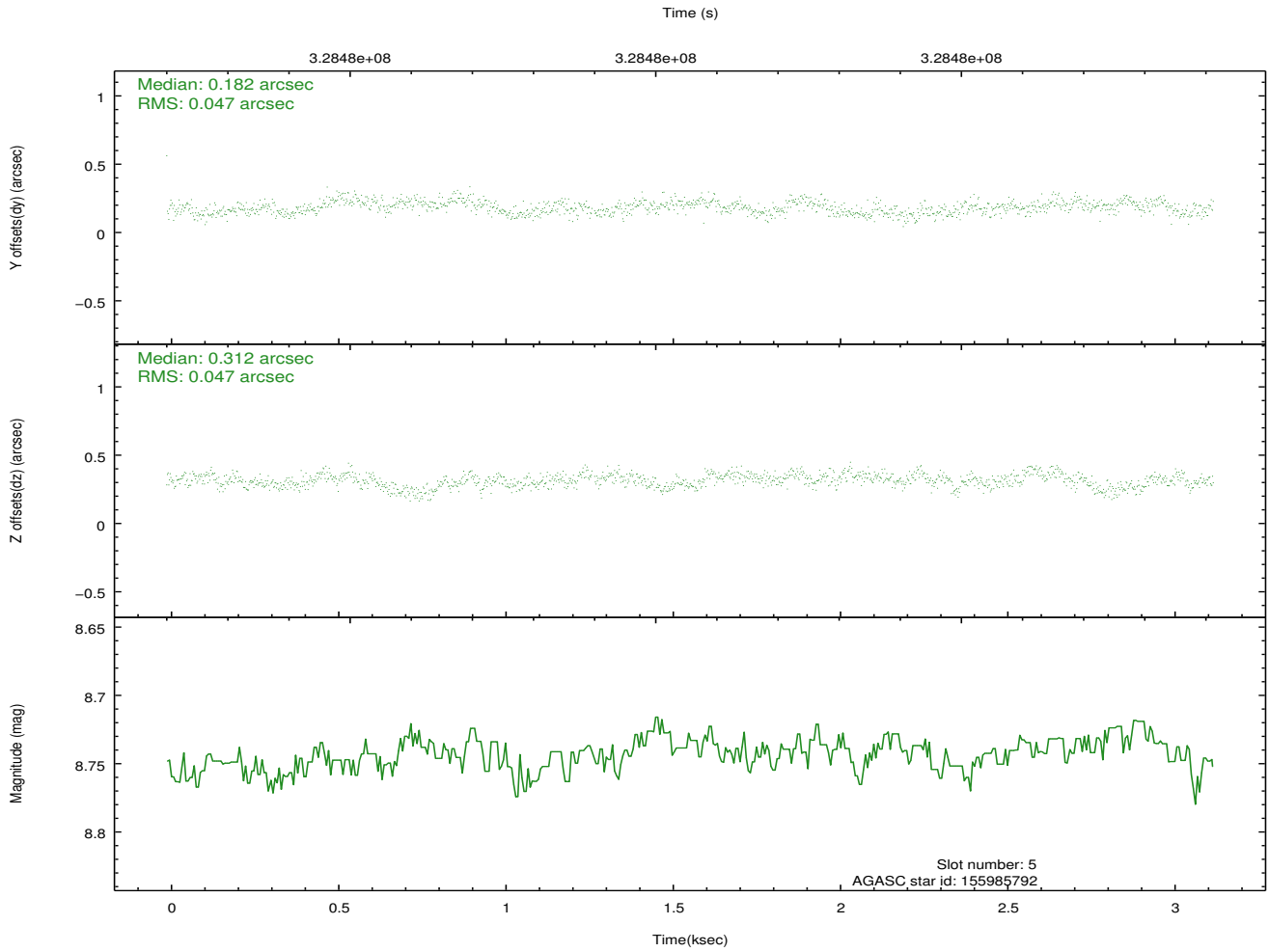
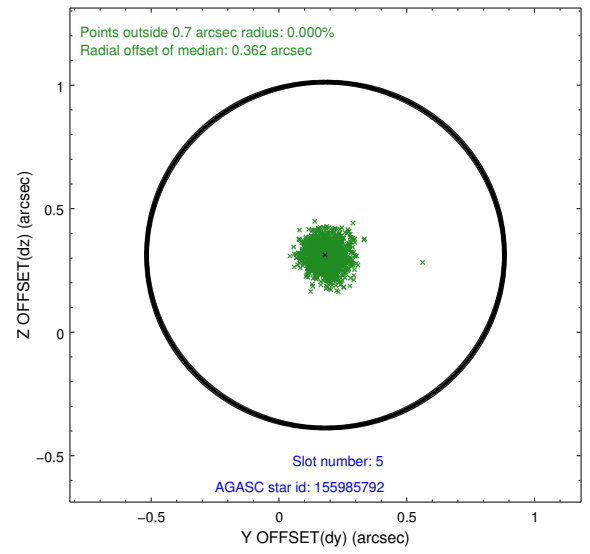
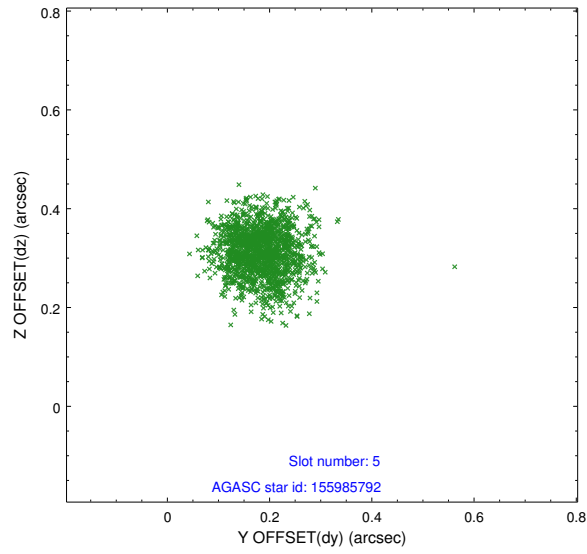
### 2.4.1 Slot 3



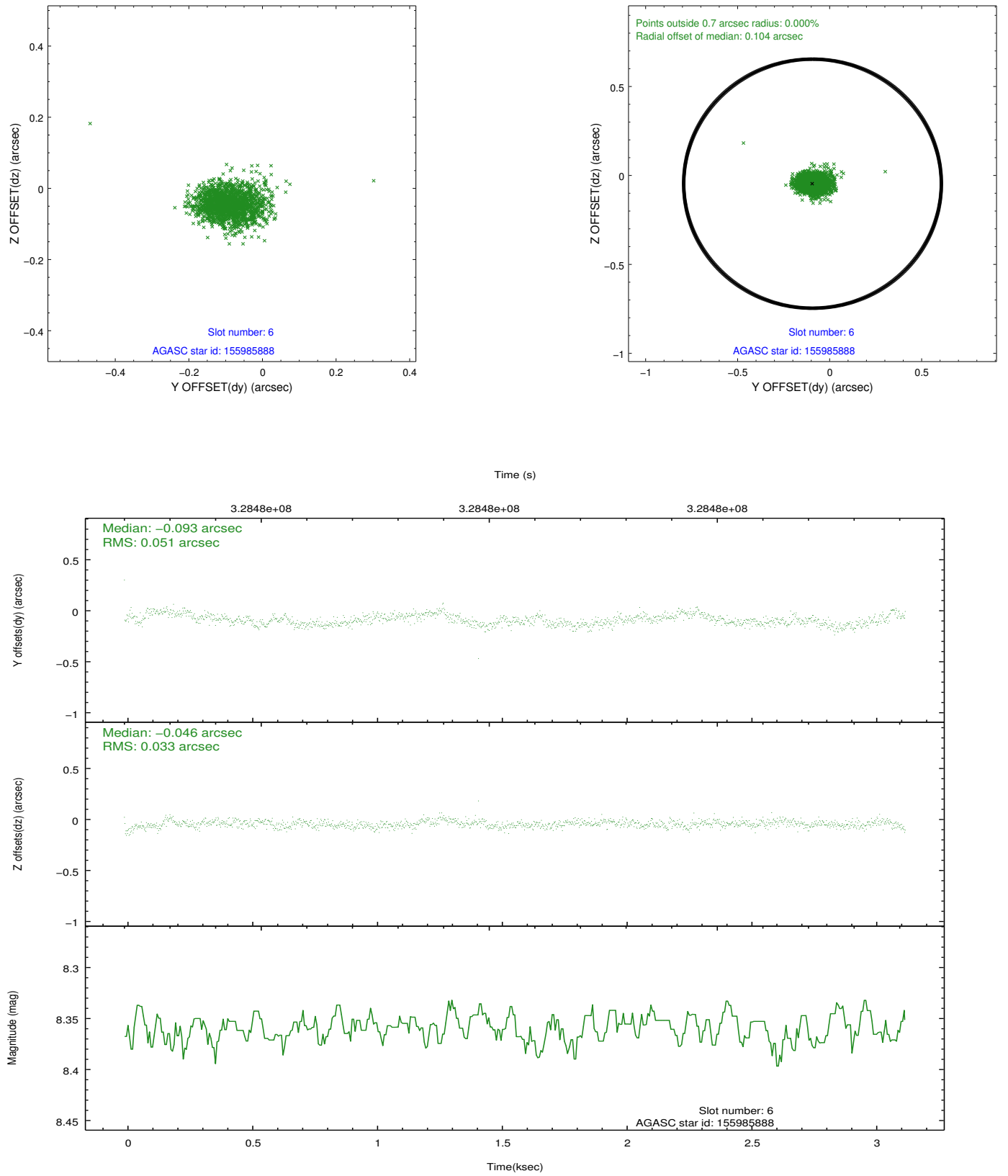
## 2.4.2 Slot 4



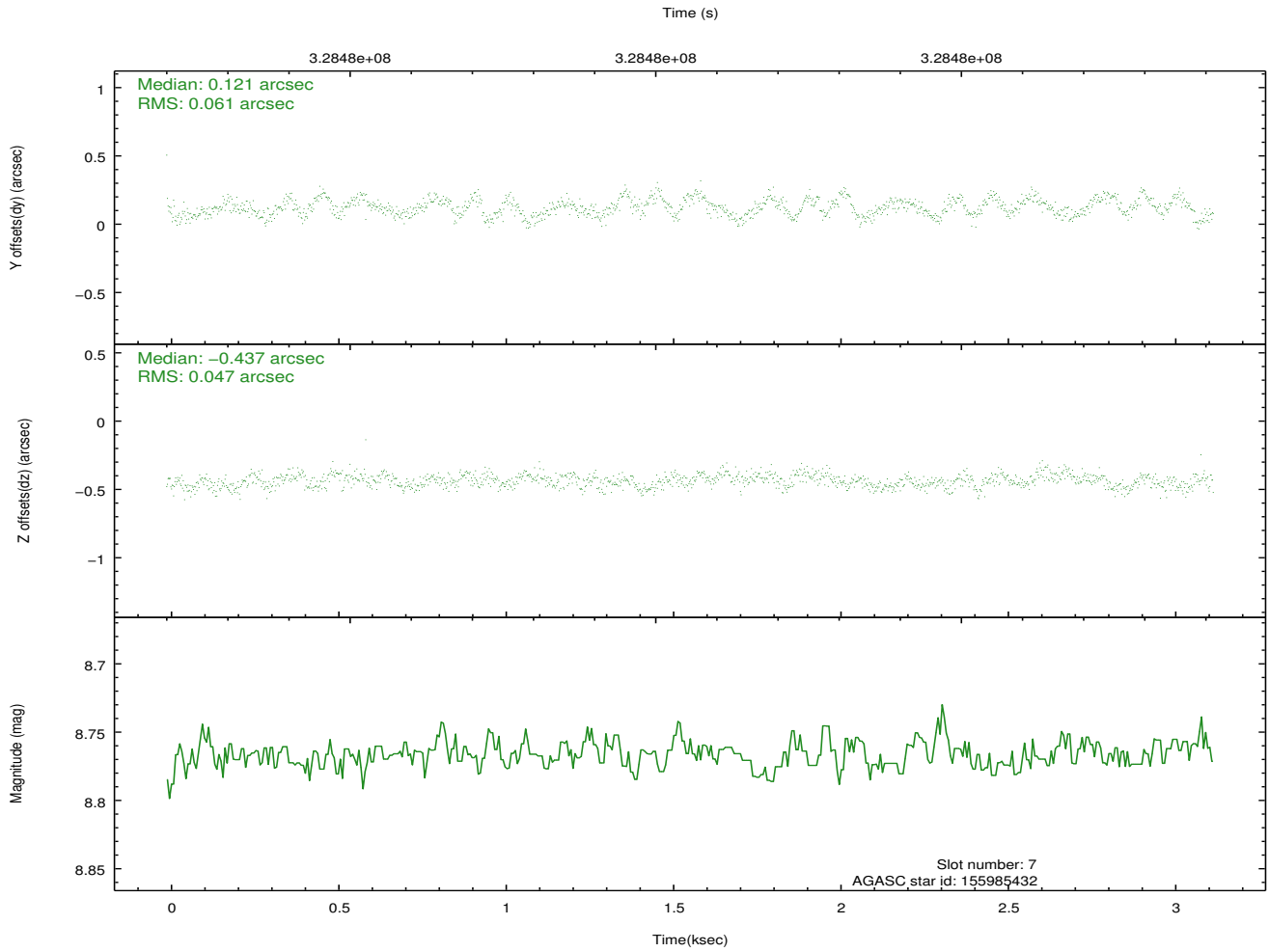
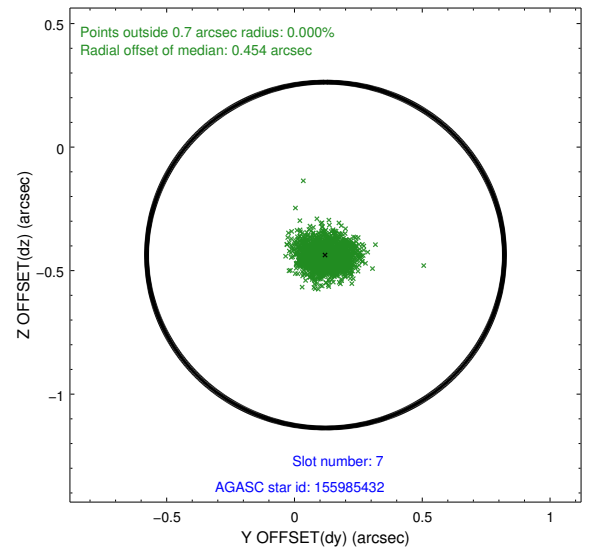
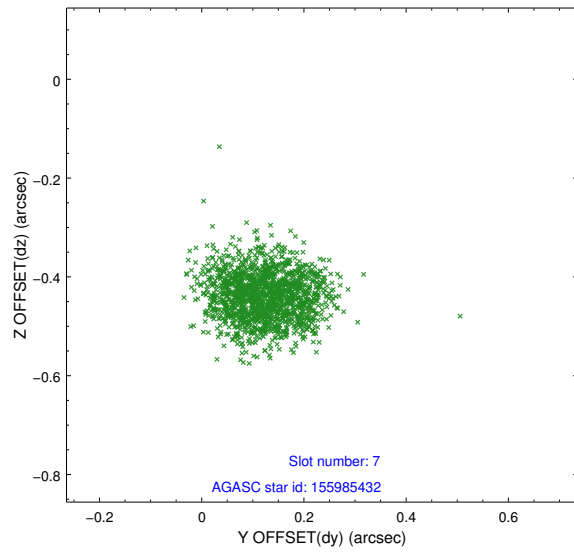
### 2.4.3 Slot 5



## 2.4.4 Slot 6

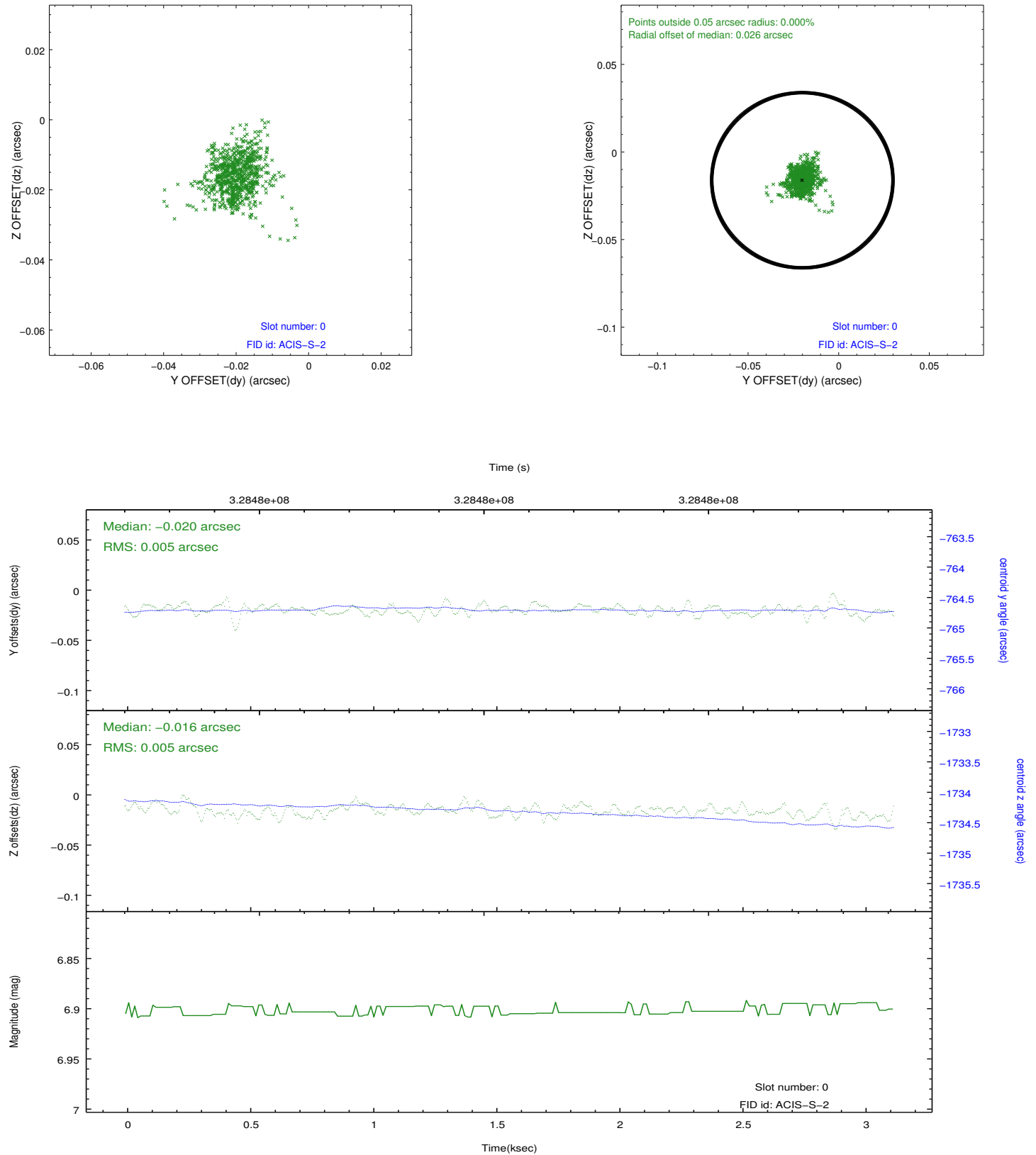


## 2.4.5 Slot 7

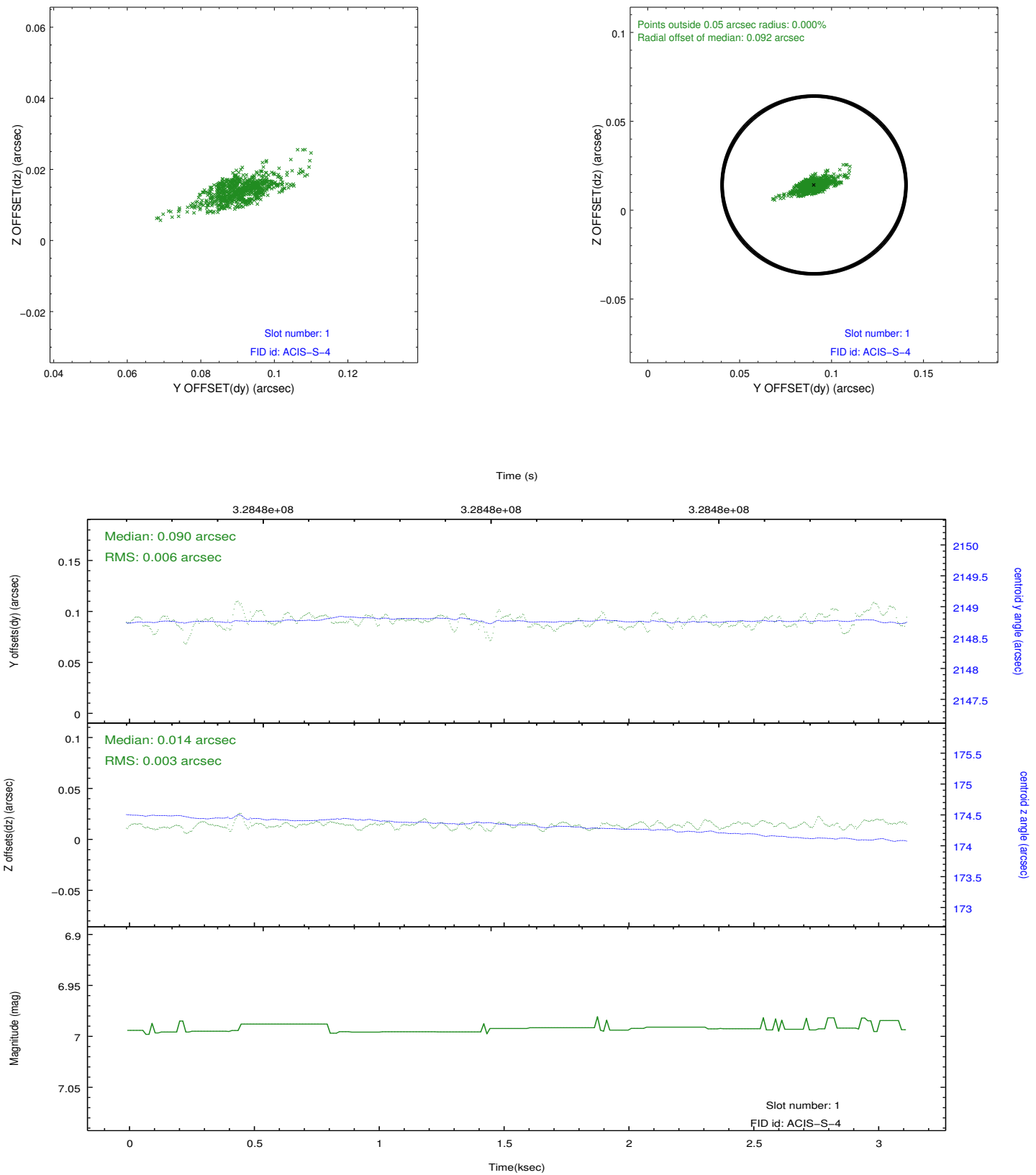


## 2.5 FID Slots

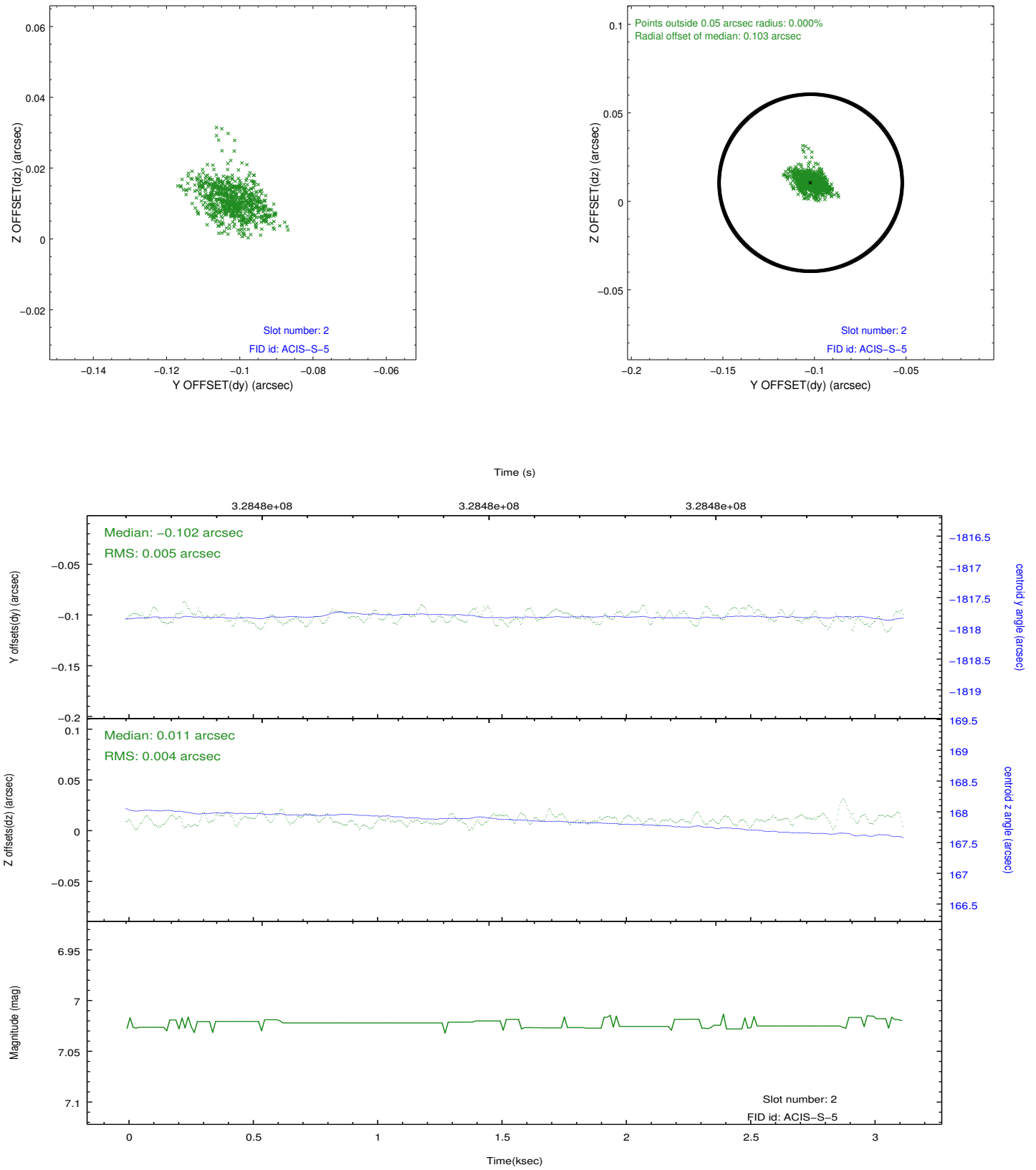
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.126

### A.2 Comments