

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2183 - L2 Version 3  
Chandra X-Ray Center

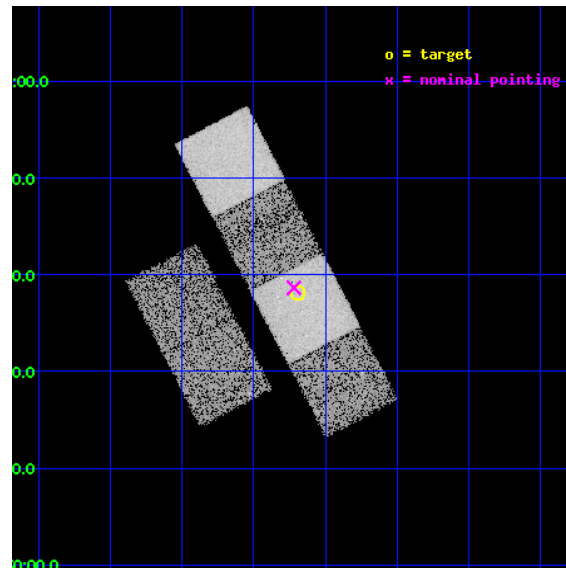
L2 Processing Date : Sep 4 2012

## 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

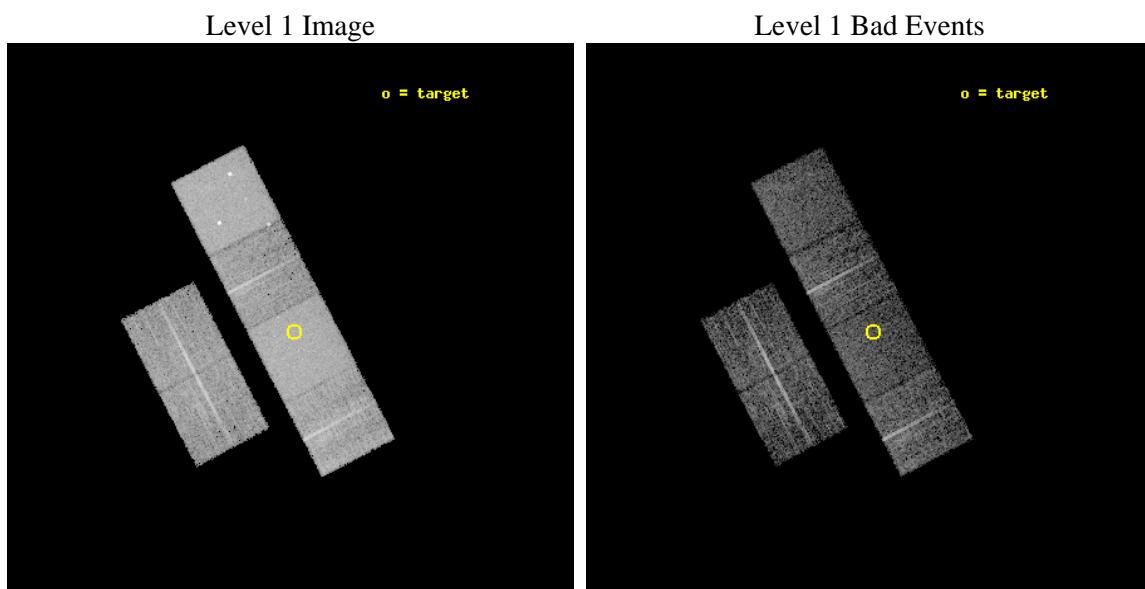
seq_num	700373	Sequence number
obs_id	2183	Observation id
title	SURVEY OF RADIO QUIET Z>4 QUASARS	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	SDSS1204-0021	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.17375	Observer's specified target RA [deg]
dec_targ	-0.363611	Observer's specified target Dec [deg]
ra_nom	181.17978777647	Nominal RA [deg]
dec_nom	-0.35584478388979	Nominal Dec [deg]
roll_nom	62.472782590013	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6352.0000059009	Sum of GTIs [s]
livetime	6271.5671571109	Livetime [s]
ontime2	6352.0000059009	Sum of GTIs [s]
ontime3	6352.0000059009	Sum of GTIs [s]
ontime5	6352.0000059009	Sum of GTIs [s]
ontime6	6352.0000059009	Sum of GTIs [s]
ontime7	6352.0000059009	Sum of GTIs [s]
ontime8	6352.0000059009	Sum of GTIs [s]
l2events	95032	Number of level 2 events



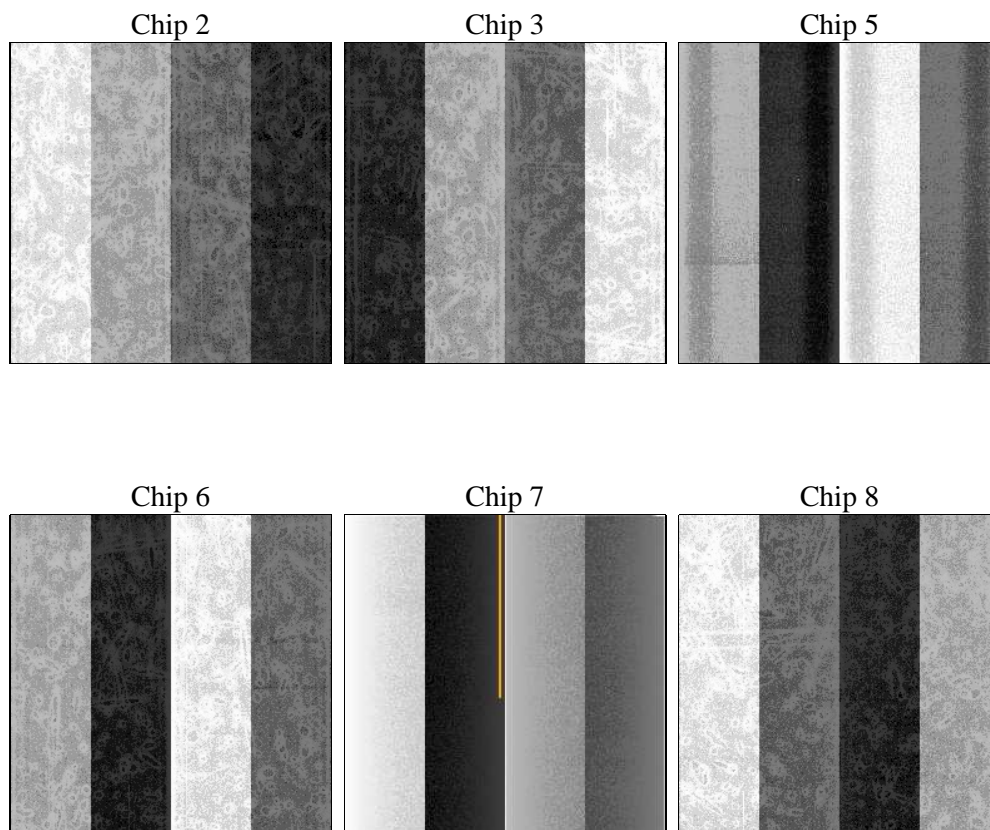
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6352.0000059009	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	6352.0000059009	Sum of GTIs [s]
date	2012-09-04T03:55:38	Date and time of file creation	ontime3	6352.0000059009	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6352.0000059009	Sum of GTIs [s]
			ontime6	6352.0000059009	Sum of GTIs [s]
			ontime7	6352.0000059009	Sum of GTIs [s]
			ontime8	6352.0000059009	Sum of GTIs [s]
			l1events	300036	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	39354	38612	68047	39956	61536	52531	grade 0 events	3736	3751	7793	3915	4569	6369
rejected events	32613	31629	28902	32694	26824	36620		9%	9%	11%	9%	7%	12%
rejected %	82%	81%	42%	81%	43%	69%	grade 1 events	21	20	133	29	42	43
								0%	0%	0%	0%	0%	0%
							grade 2 events	1235	1324	10859	1356	6936	2776
								3%	3%	15%	3%	11%	5%
							grade 3 events	458	528	2155	506	3045	1975
								1%	1%	3%	1%	4%	3%
							grade 4 events	457	508	1991	517	2994	1801
								1%	1%	2%	1%	4%	3%
							grade 5 events	1266	1367	4021	1509	4520	1831
								3%	3%	5%	3%	7%	3%
							grade 6 events	946	952	16866	1085	17618	3265
								2%	2%	24%	2%	28%	6%
							grade 7 events	31235	30162	24229	31039	21812	34471
								79%	78%	35%	77%	35%	65%

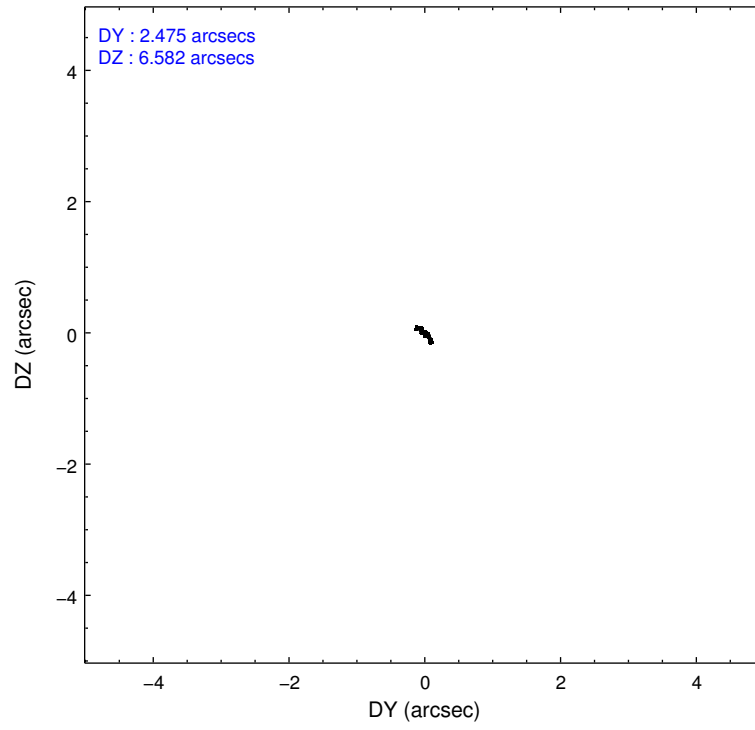
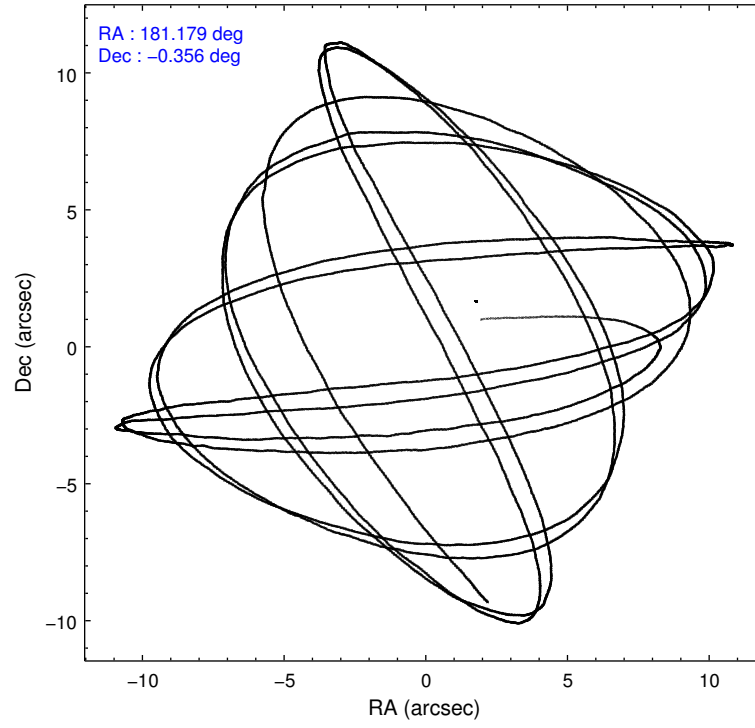


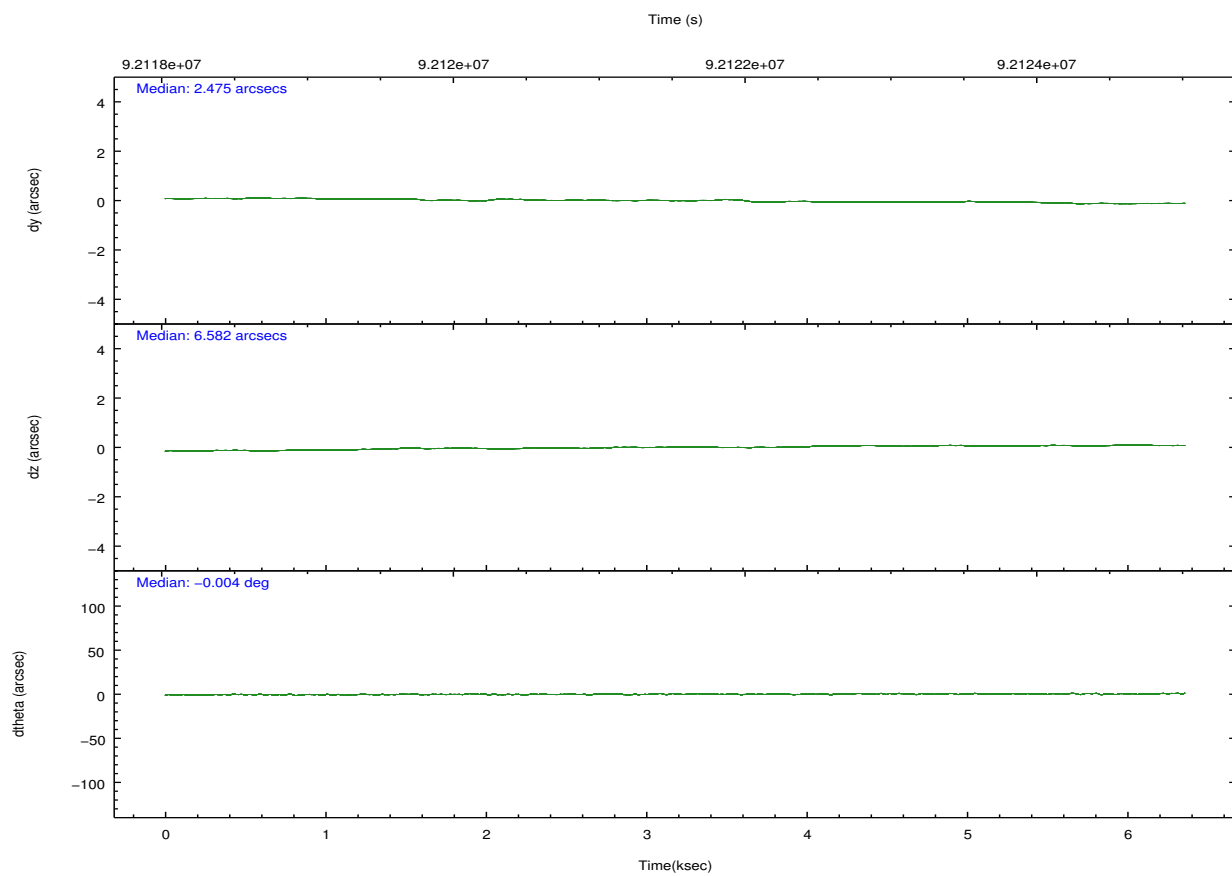
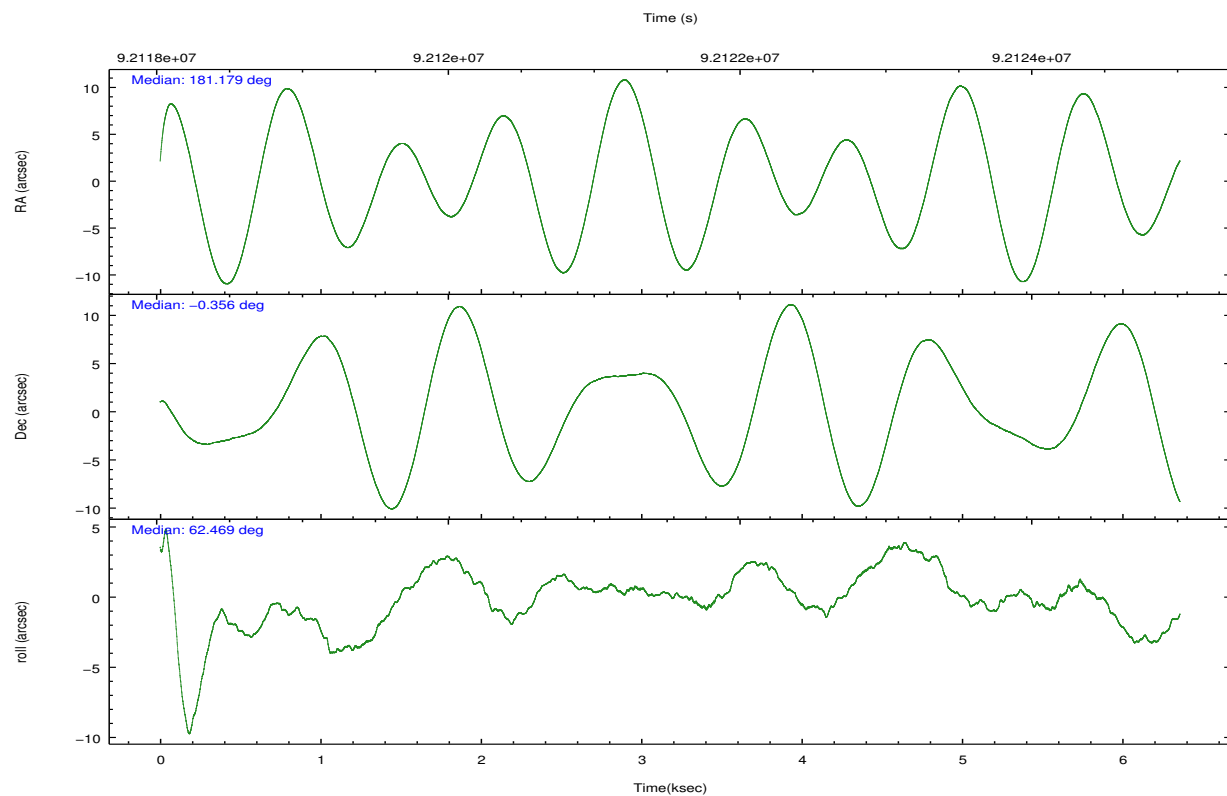
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	181.181200	181.1797877764686
[deg] Pointing Dec	-0.383134	-0.3558447838897894
[deg] Pointing Roll	62.316174	62.47278259001266
[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)	92118499.184000	92117398.92772201
Observation start date	2000-12-02T04:27:15	2000-12-02T04:09:58
[s] Observation end time (MET)	92124699.184000	92125136.653017
Observation end date	2000-12-02T06:10:35	2000-12-02T06:18:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



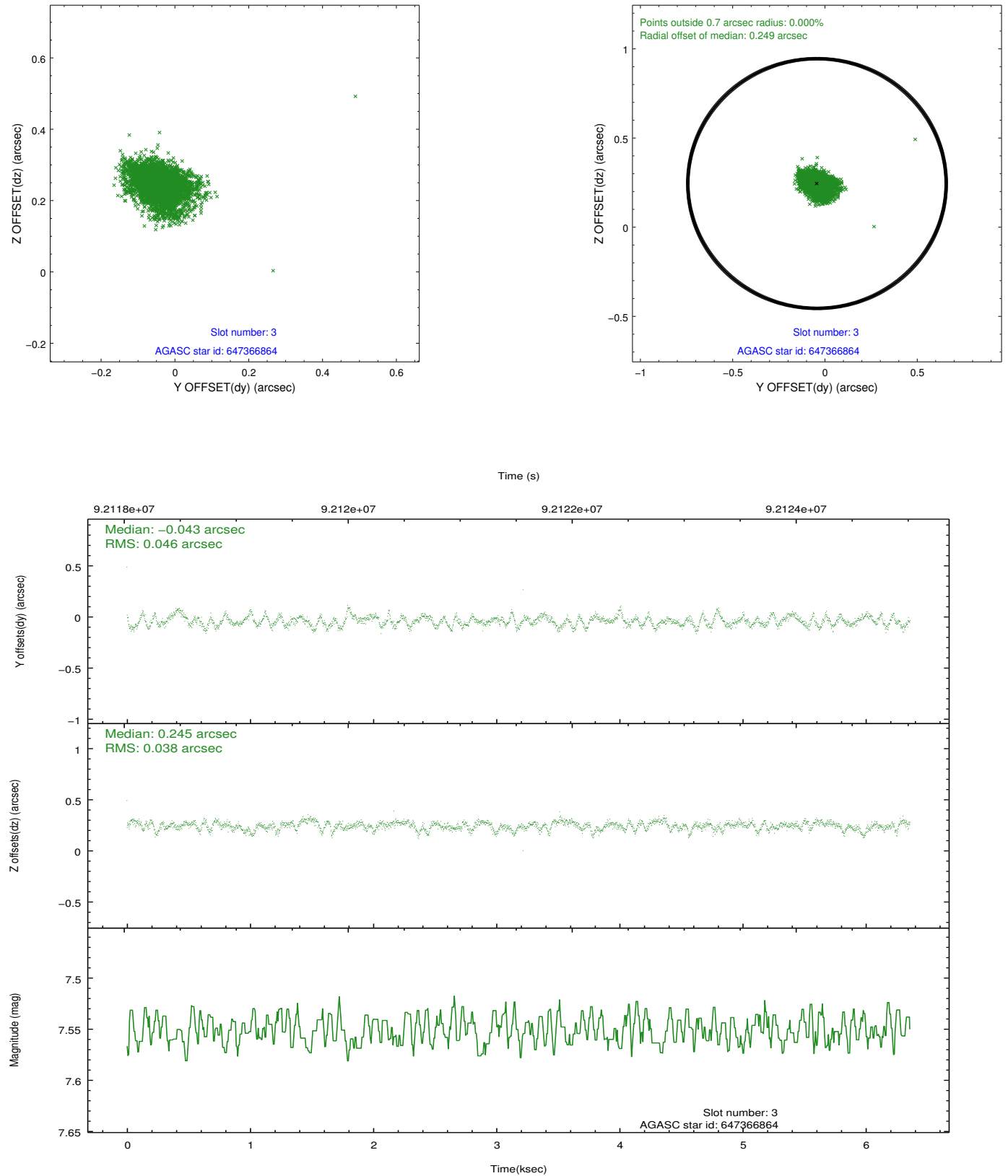


### Slot Statistics

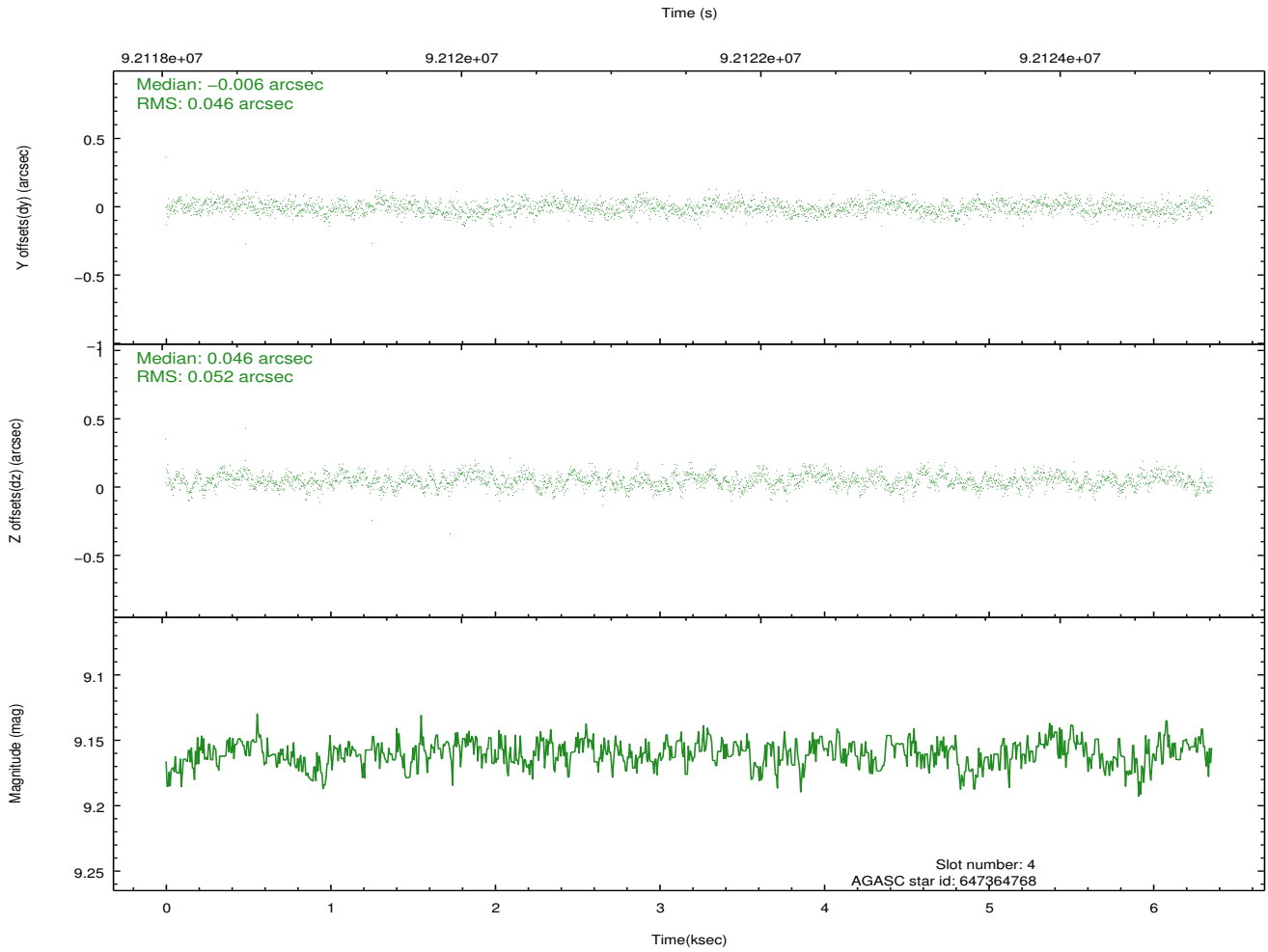
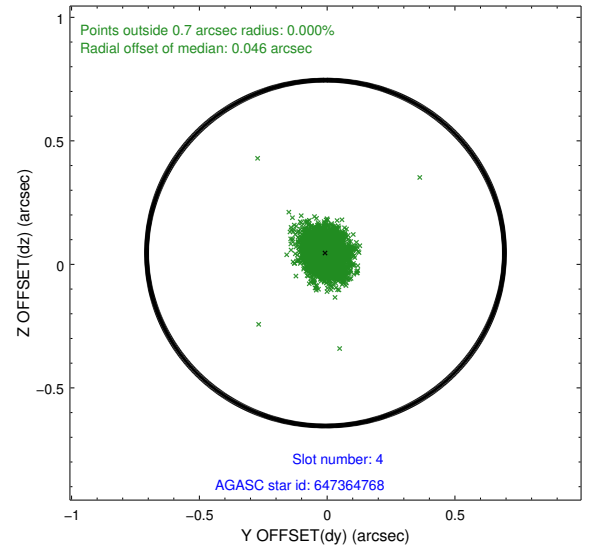
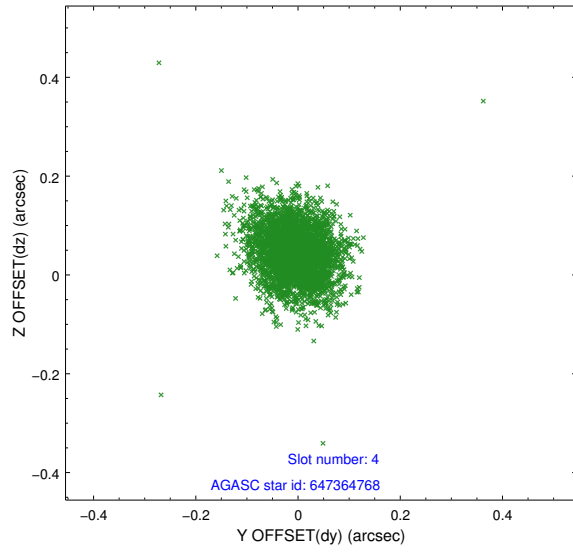
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1551	-0.029	-0.000	0.007	0.012	0.000000	0.000000	-755.12	-1727.73
1	FID	ACIS-S-4	7.21	1551	-0.019	0.014	0.006	0.011	0.000000	0.000000	2157.75	179.82
2	FID	ACIS-S-5	7.23	1551	0.018	-0.005	0.008	0.013	0.000000	0.000000	-1806.73	174.51
3	GUIDE	647366864	7.55	3103	-0.043	0.245	0.062	0.103	181.797637	-0.629953	245.69	-2378.35
4	GUIDE	647364768	9.16	3103	-0.006	0.046	0.072	0.117	181.595958	-0.108335	1571.36	-863.92
5	GUIDE	647366200	9.29	3103	0.279	0.046	0.086	0.137	181.366596	-0.971817	-1564.31	-1576.54
6	GUIDE	36704856	9.48	3100	-0.219	-0.109	0.091	0.148	181.165578	0.387224	2430.40	1337.16
7	GUIDE	36703752	9.54	3099	-0.012	-0.230	0.089	0.146	181.172969	0.223598	1922.63	1040.72

## 2.4 Star Slots

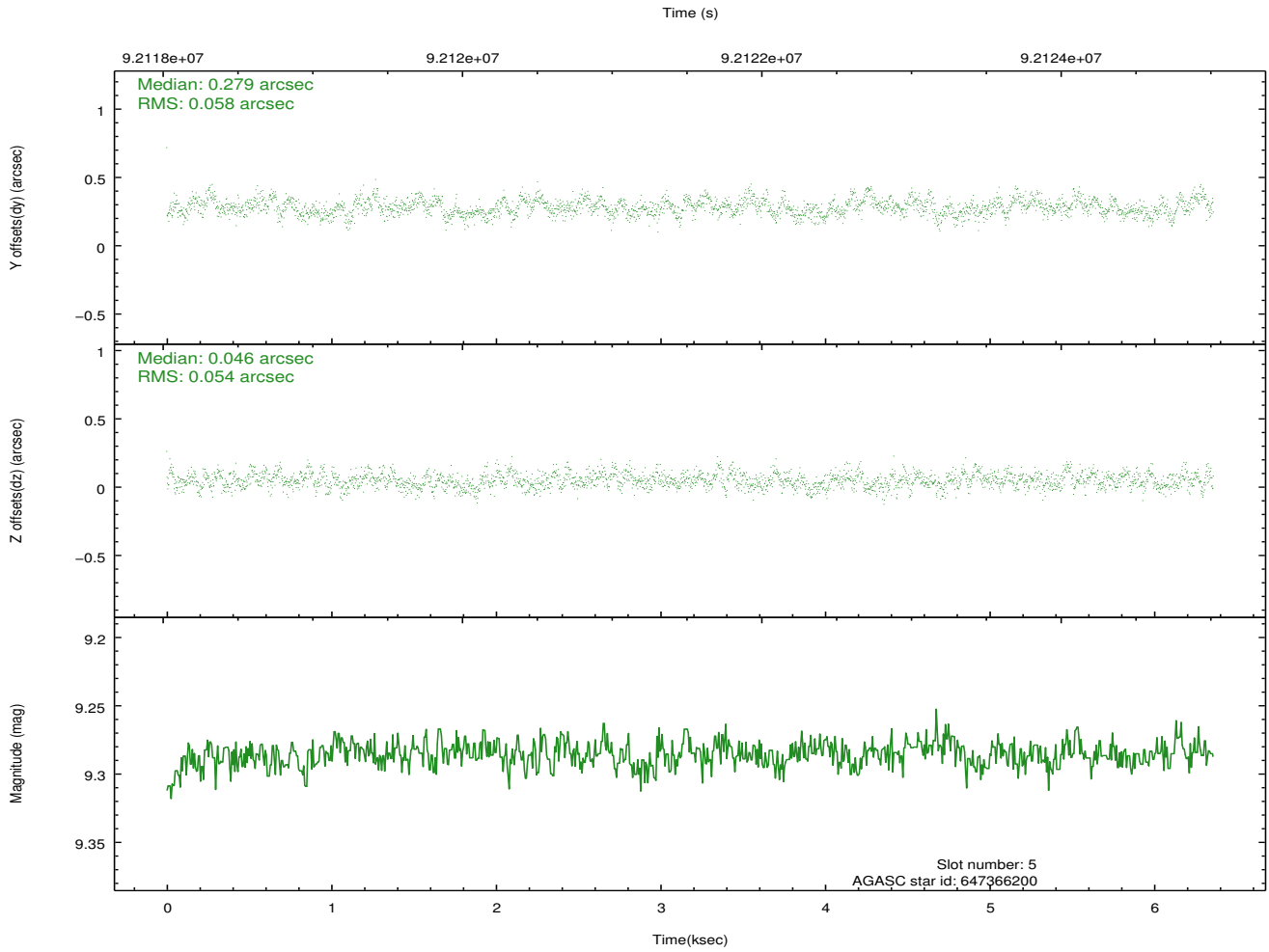
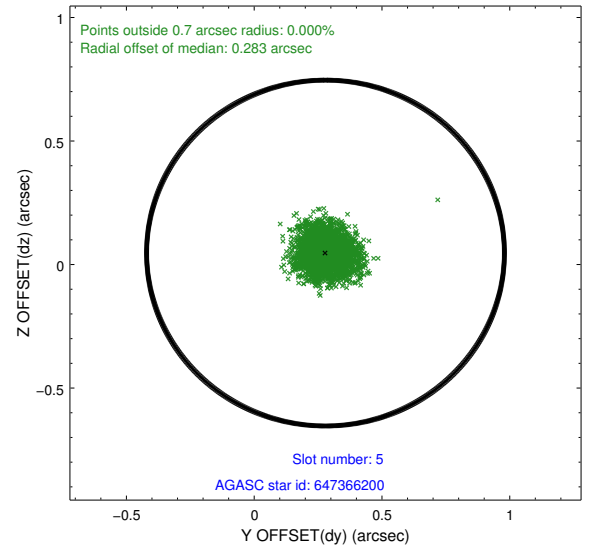
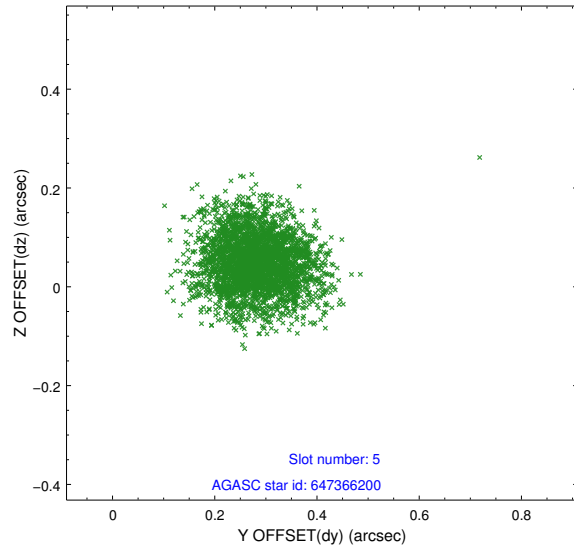
### 2.4.1 Slot 3



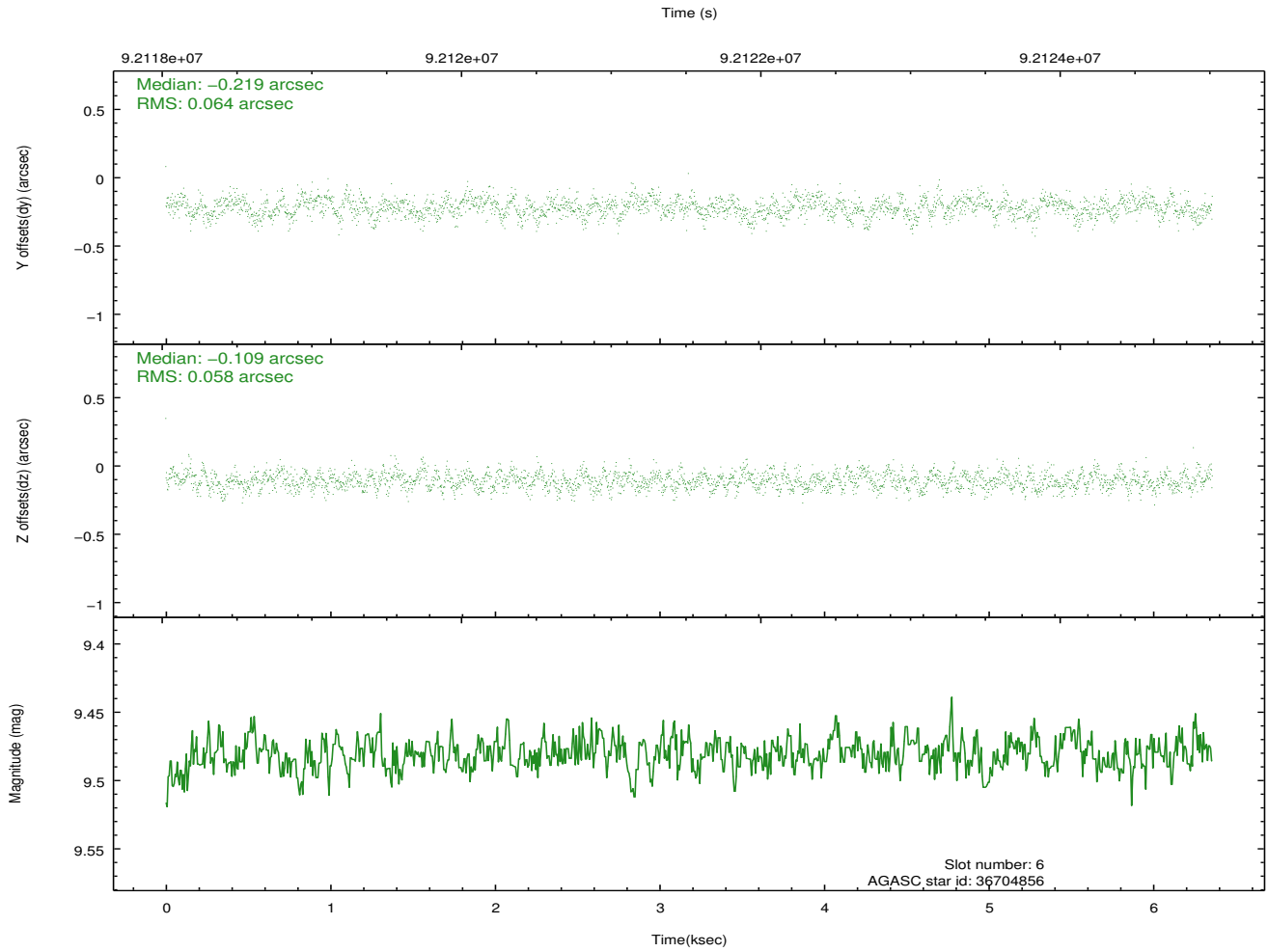
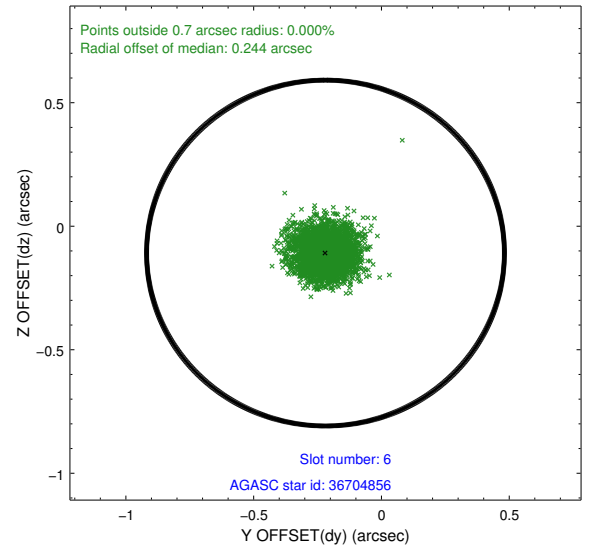
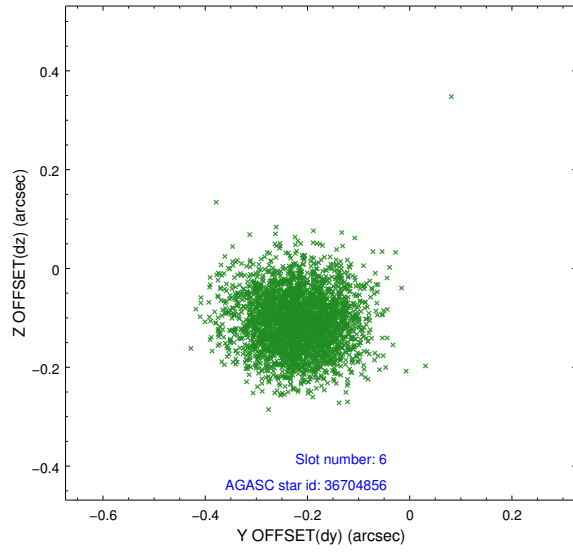
## 2.4.2 Slot 4



### 2.4.3 Slot 5

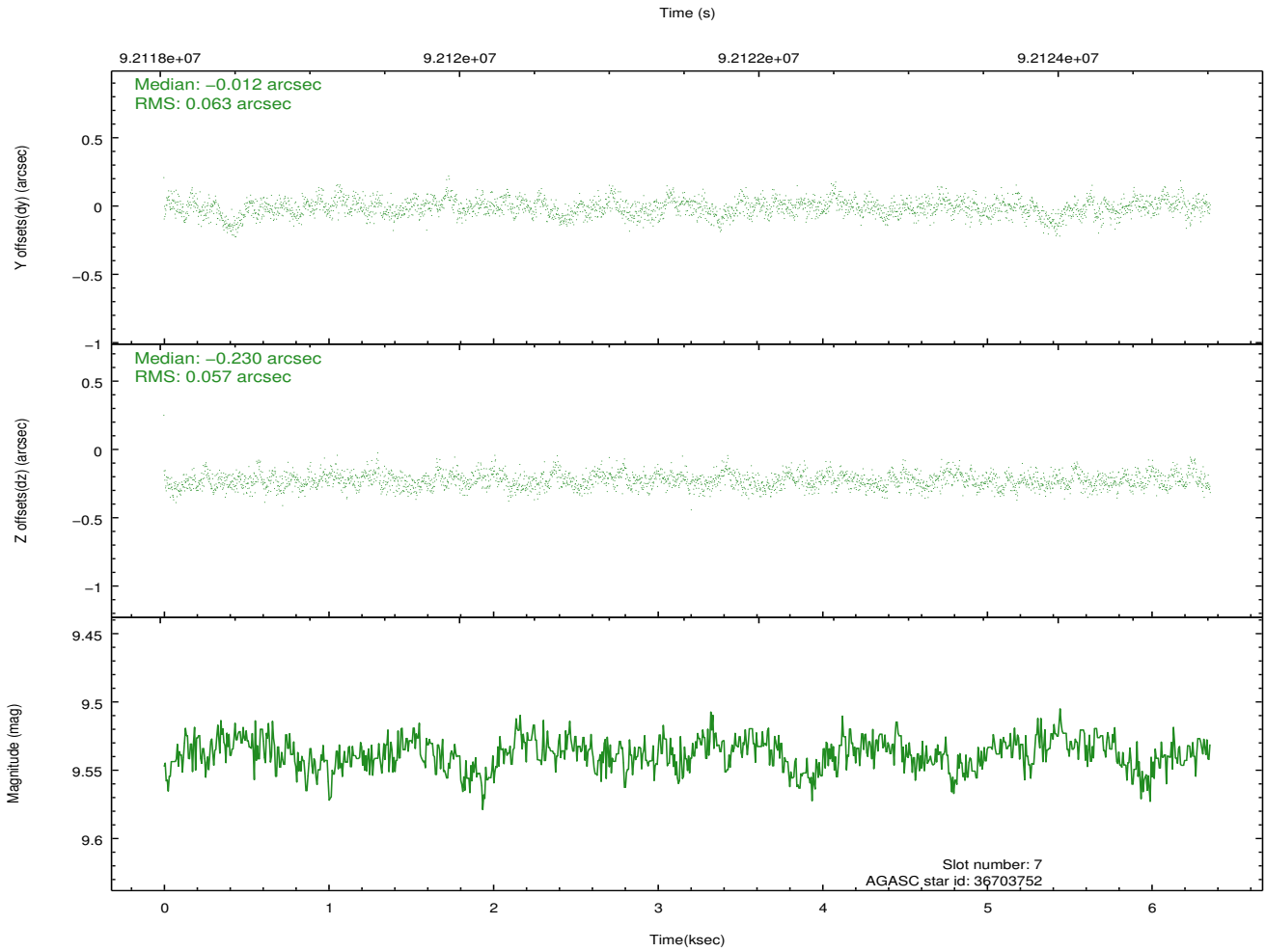
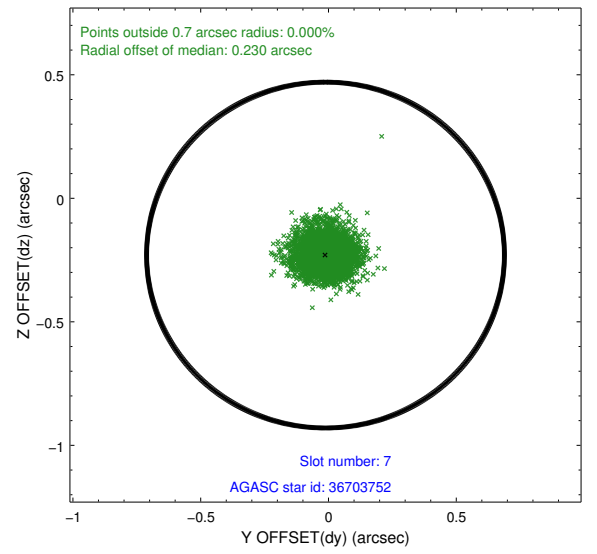
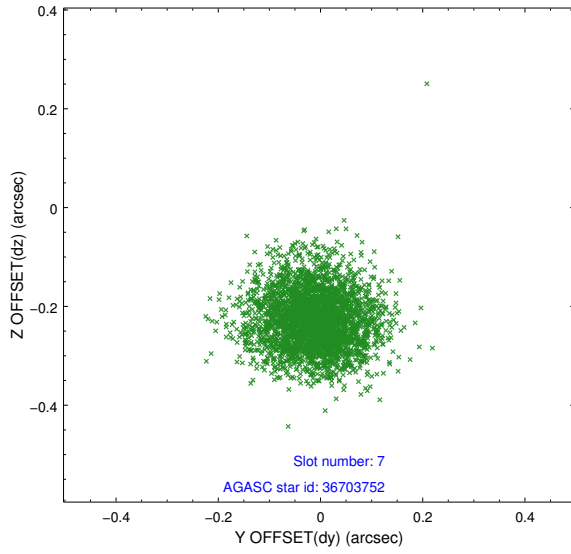


## 2.4.4 Slot 6



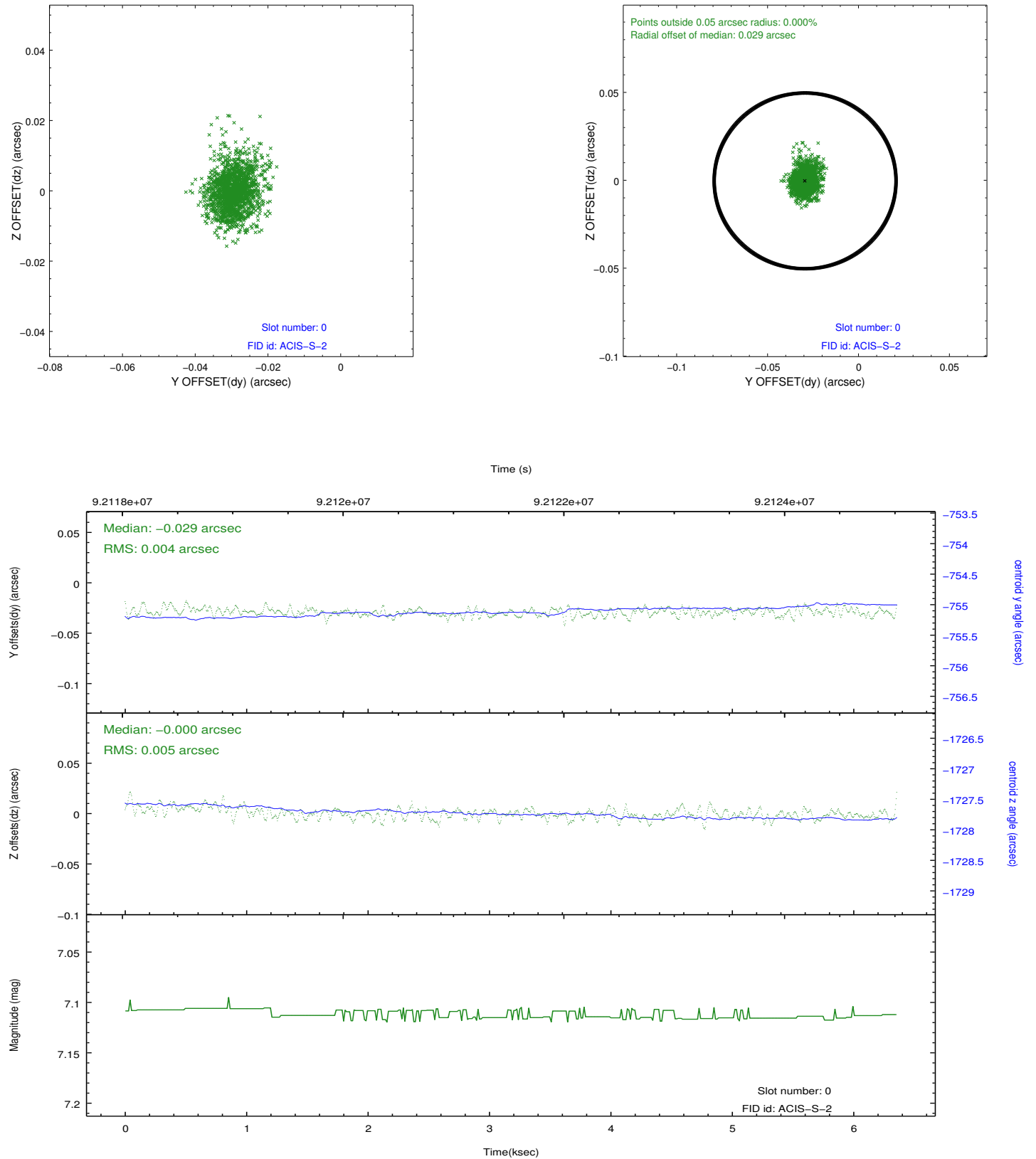


## 2.4.5 Slot 7

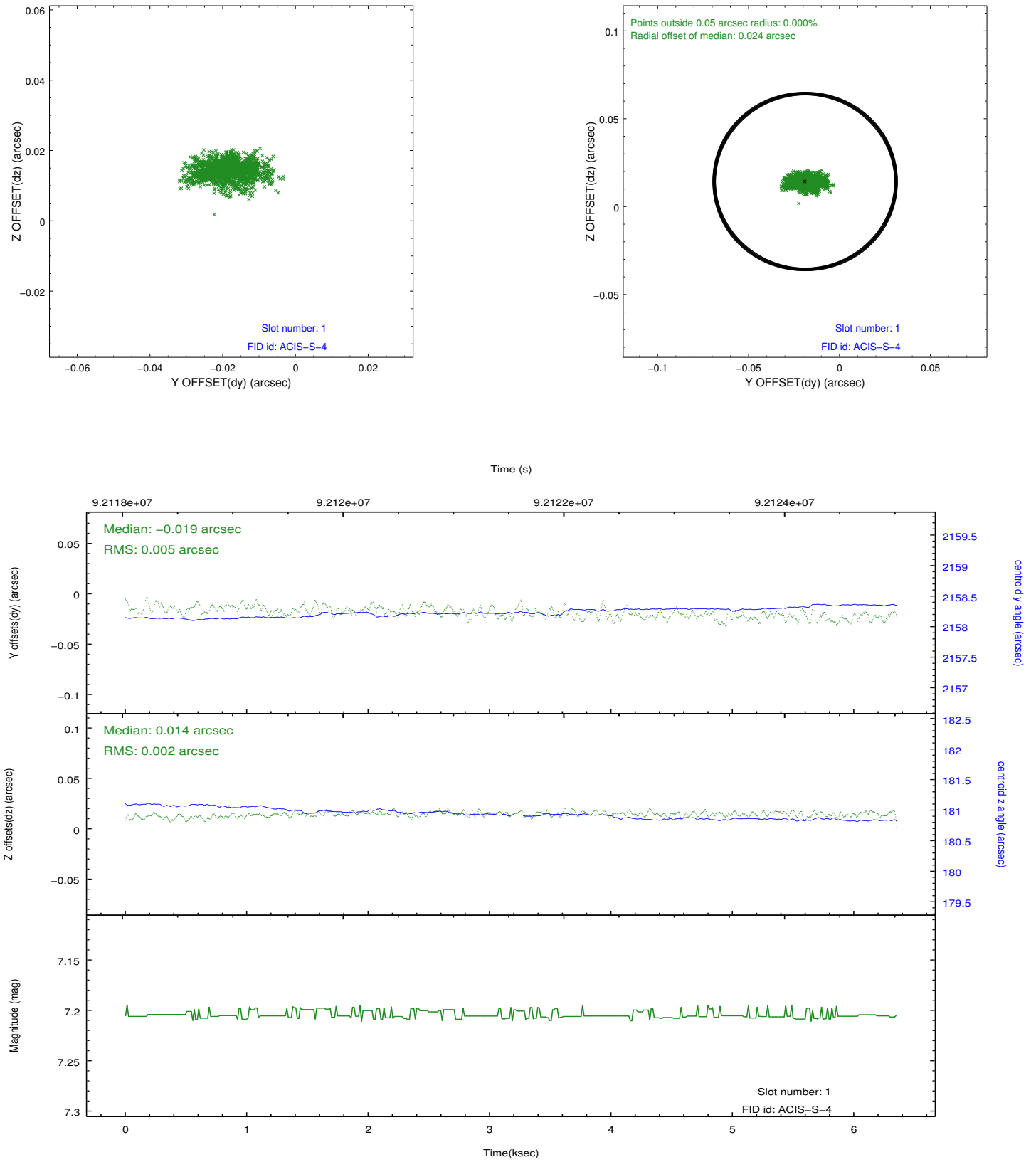


## 2.5 FID Slots

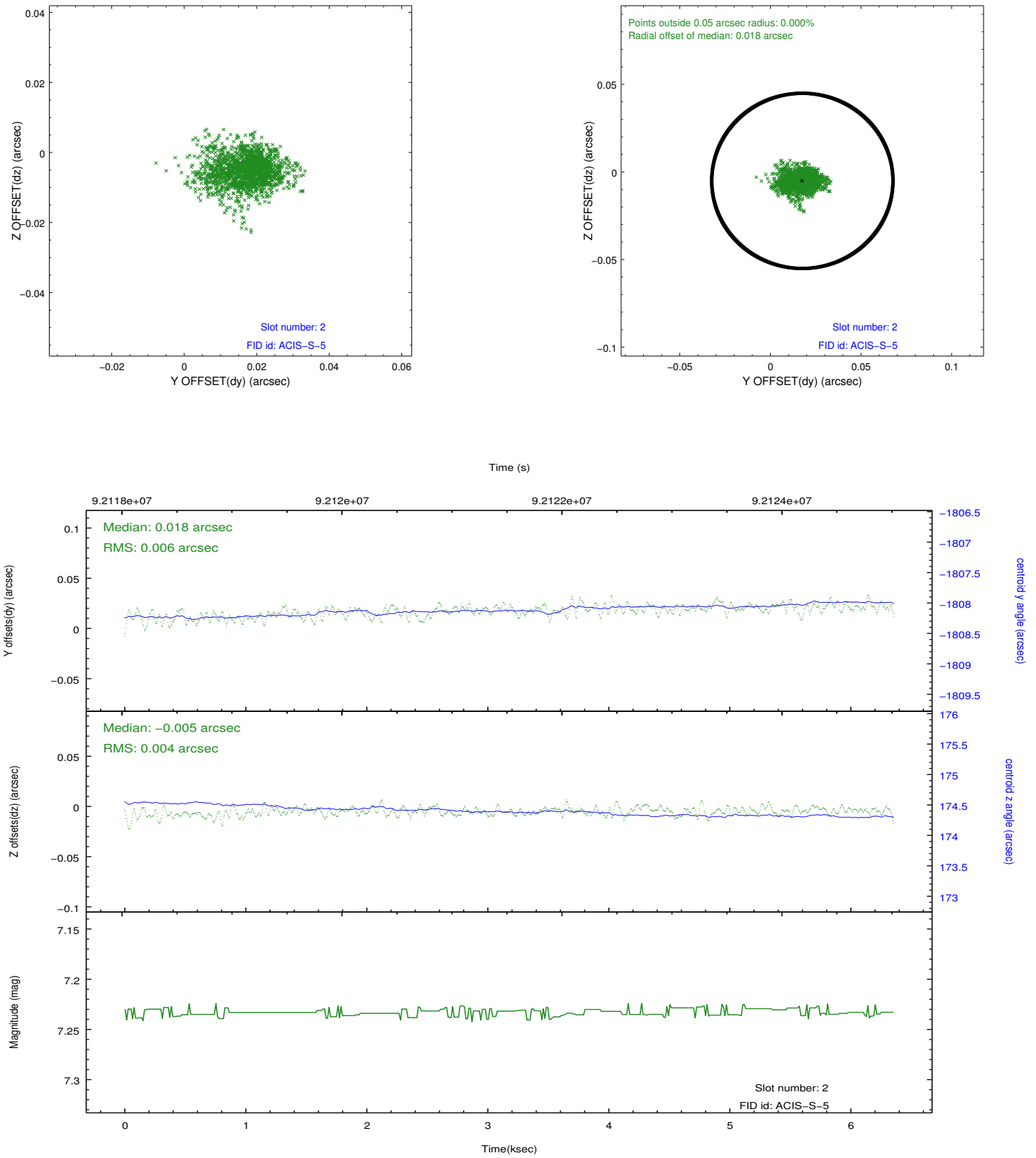
### 2.5.1 Slot 0



## 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)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.352

### A.2 Comments