

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4831 - L2 Version 001  
Chandra X-Ray Center

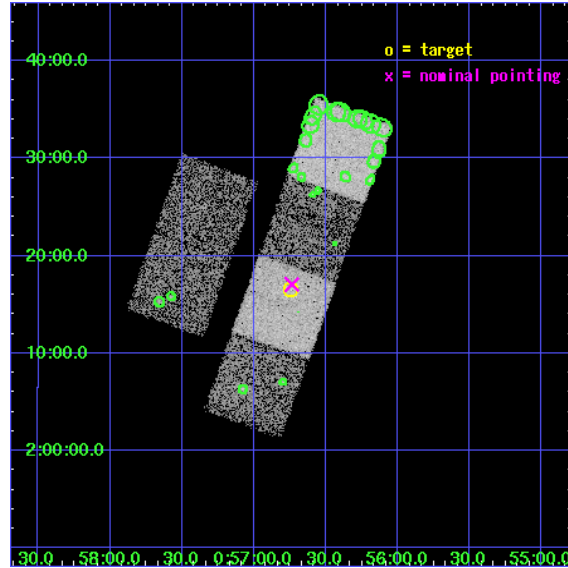
L2 Processing Date : Apr 24 2006

## 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>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

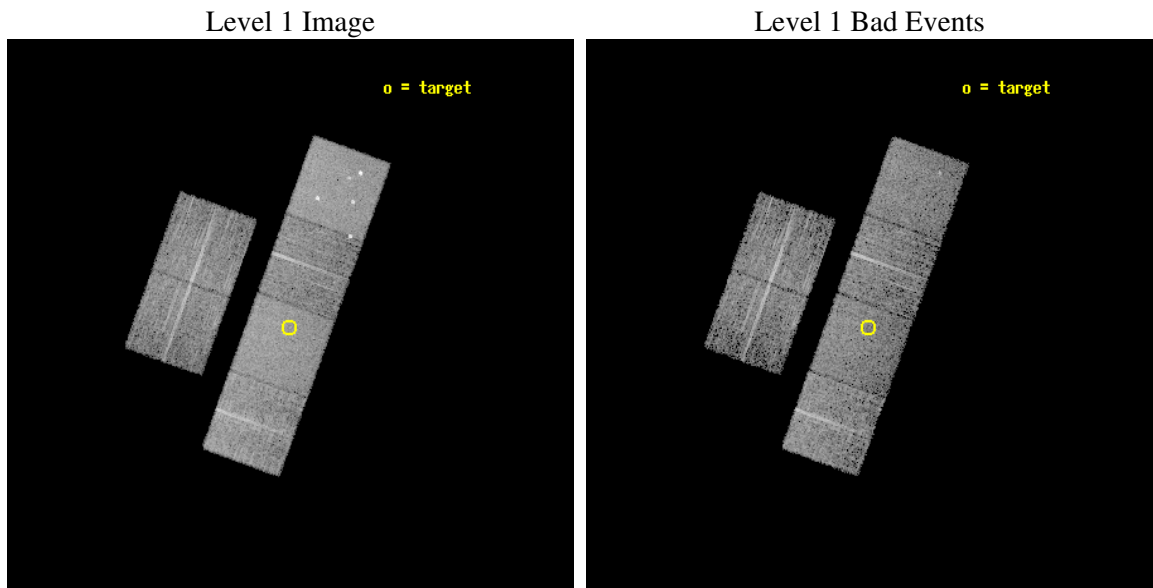
seq_num	700913
obs_id	4831
title	Constraining the Hard-X-ray Through Submm SEDs of a Complete Sample of Broad Absorption Line Quasars
observer	Dr. Sarah Gallagher
object	LBQS 0054+0200
dtcycle	0
cycle	P
ra_targ	14.185833
dec_targ	2.275028
ra_nom	14.184174799265
dec_nom	2.2845368769925
roll_nom	109.86989964457
revision	2
ontime	5958.3999778032
livetime	5882.9511295666
ontime2	5958.3999778032
ontime3	5958.3999778032
ontime5	5958.3999778032
ontime6	5958.3999778032
ontime7	5958.3999778032
ontime8	5958.3999778032
l2events	66567



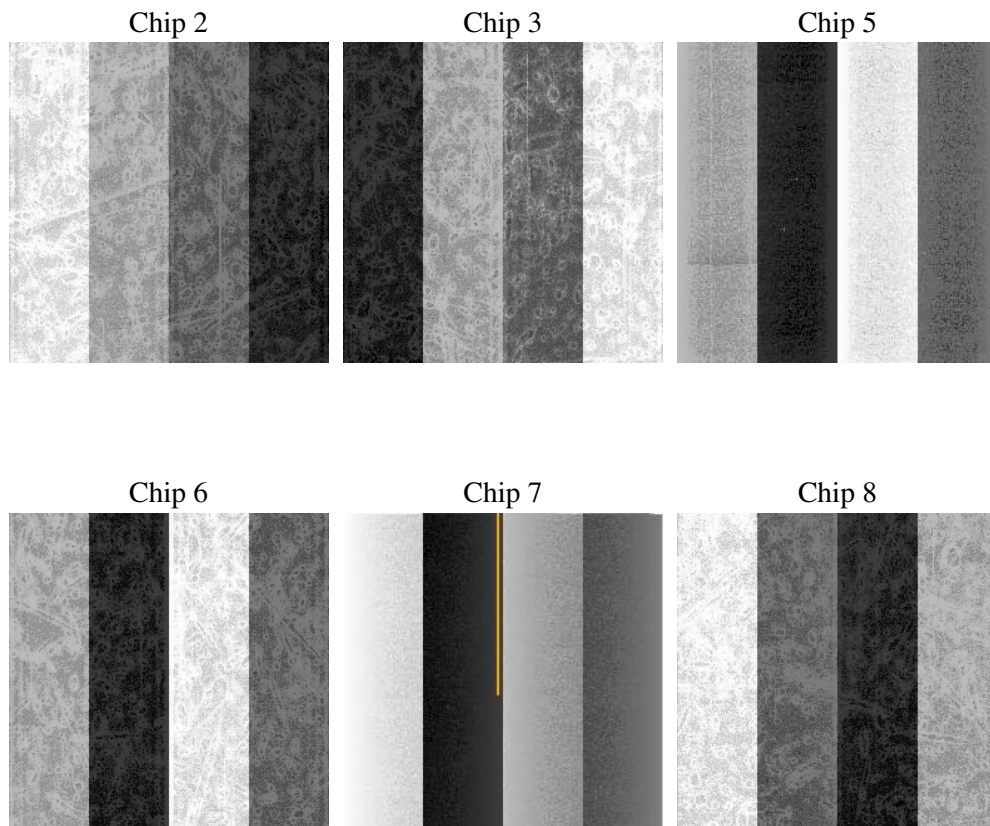
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.2
caldbver	3.2.1
date	2006-04-24T23:01:29
revision	2

sched_exp_time	6000.000000
ontime	5963.4518655539
ontime2	5963.4518655539
ontime3	5963.4518655539
ontime5	5963.451885432
ontime6	5963.4518655539
ontime7	5963.4518655539
ontime8	5963.4518655539
l1events	312989

### 2.1.4 Events

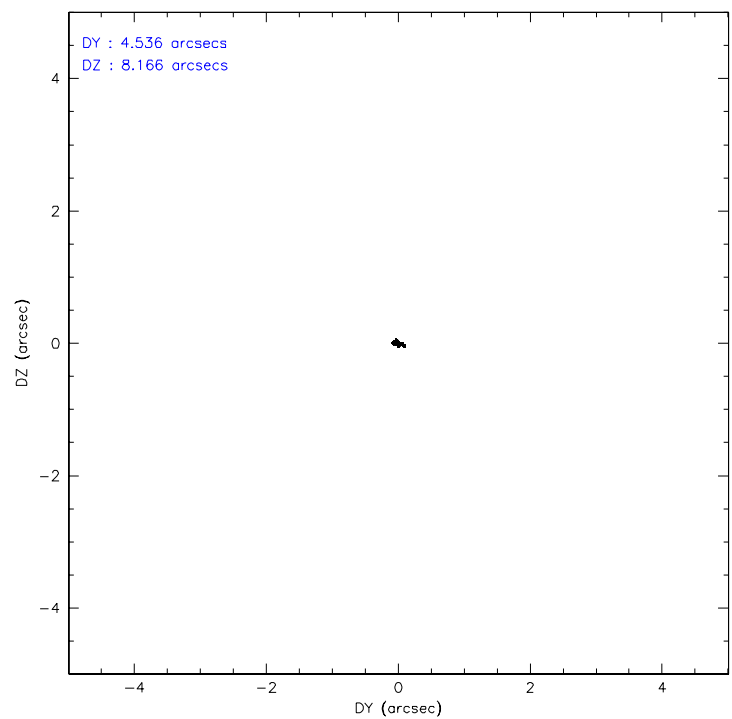
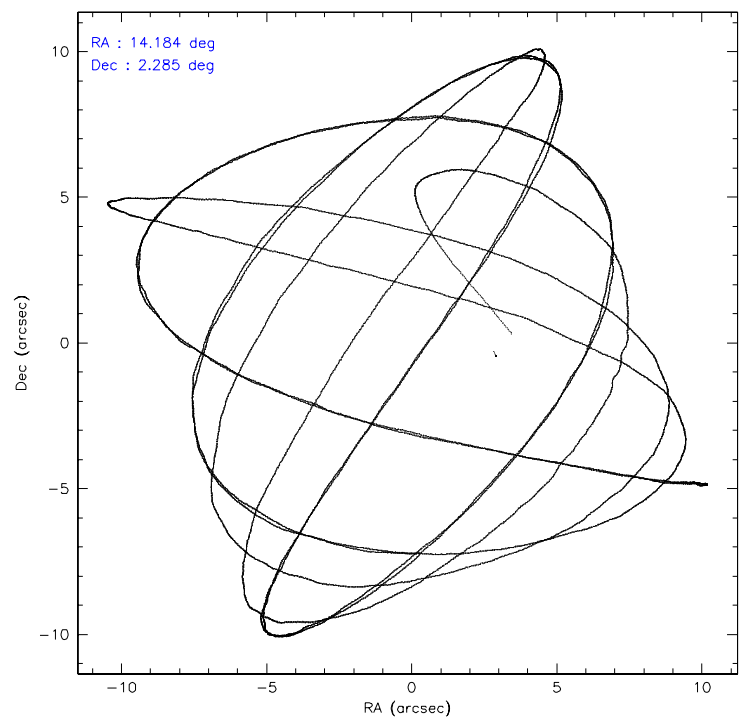
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44923	41006	67069	43414	58379	58198
rejected events	39883	36029	36490	38248	36432	45768
rejected %	88%	87%	54%	88%	62%	78%

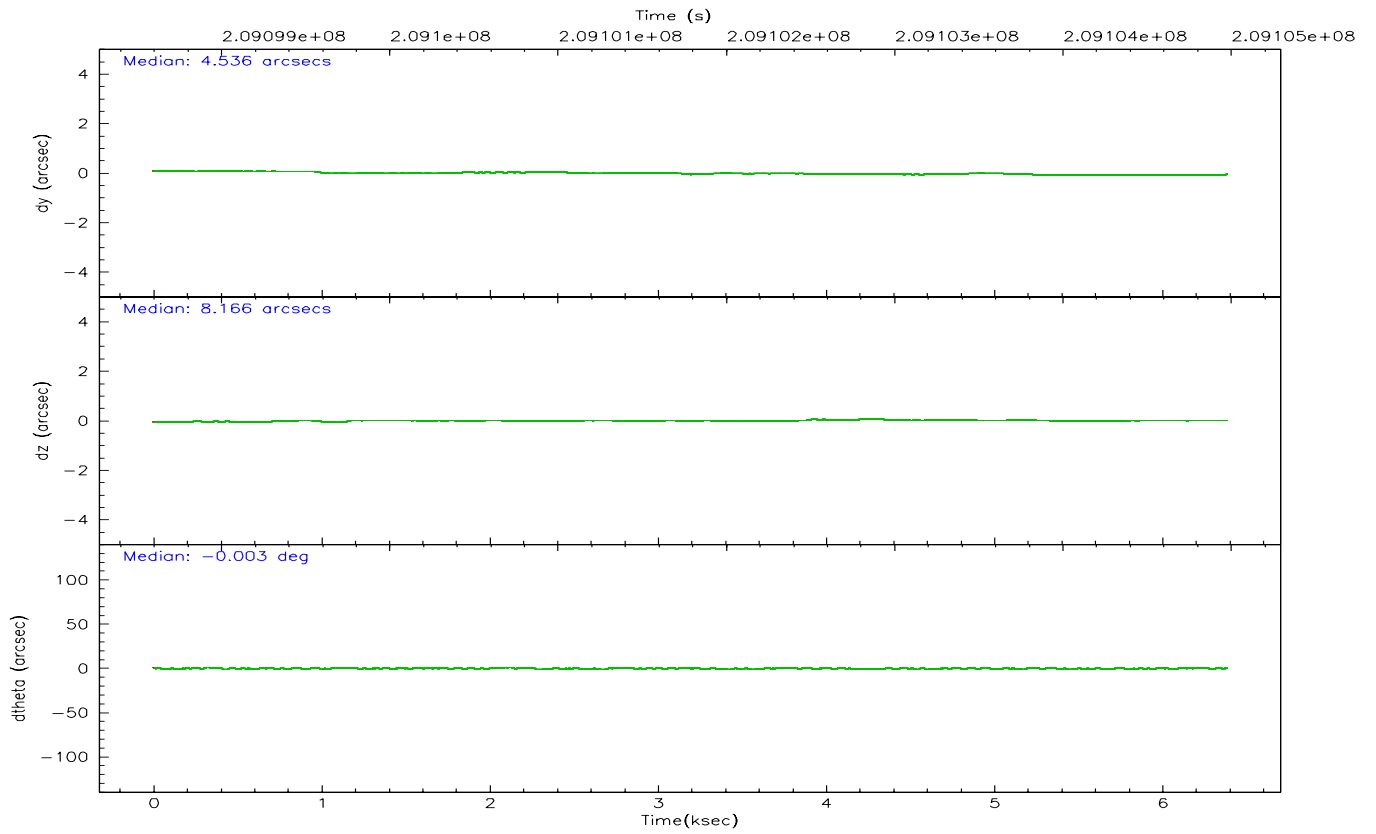
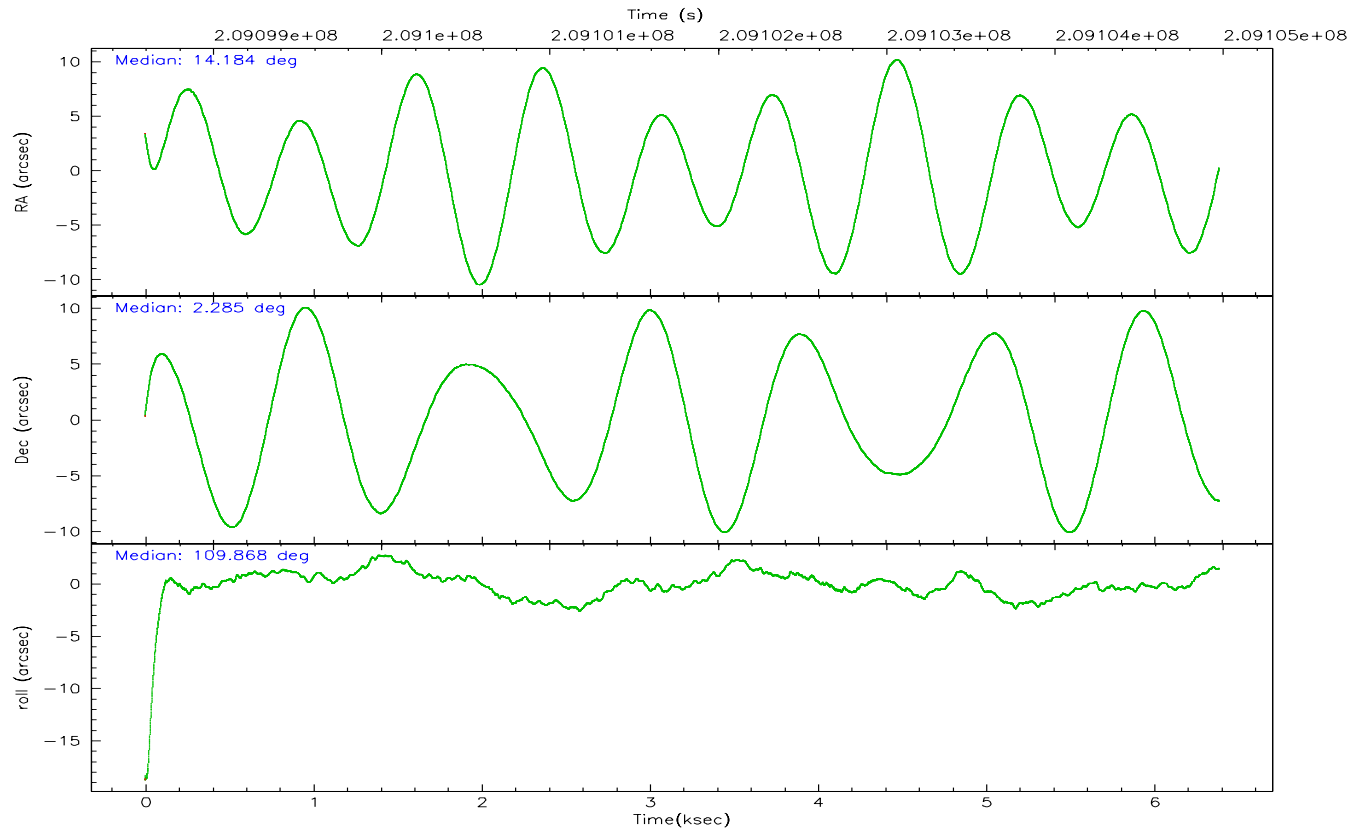
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2139	2194	4165	2082	1255	3914
	4%	5%	6%	4%	2%	6%
grade 1 events	23	25	183	15	36	35
	0%	0%	0%	0%	0%	0%
grade 2 events	1086	956	8941	1099	5445	2692
	2%	2%	13%	2%	9%	4%
grade 3 events	465	481	674	470	1054	1261
	1%	1%	1%	1%	1%	2%
grade 4 events	467	482	598	491	1023	1248
	1%	1%	0%	1%	1%	2%
grade 5 events	1658	1846	3039	1980	3796	2641
	3%	4%	4%	4%	6%	4%
grade 6 events	888	867	16235	1028	13194	3333
	1%	2%	24%	2%	22%	5%
grade 7 events	38197	34155	33234	36249	32576	43074
	85%	83%	49%	83%	55%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	14.205264	14.18417479926464	Alternating exposures requested	N	N
Pointing Dec	2.267289	2.284536876992459	Primary exposure time	0.000000	3.2
Pointing Roll	109.712471	109.8698996445701			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	209098975.184000	209097914.45728			
Observation start date	2004-08-17T03:01:51	2004-08-17T02:45:14			
Observation end time	209104975.184000	209105642.95762			
Observation end date	2004-08-17T04:41:51	2004-08-17T04:54:02			
Read mode	TIMED	TIMED			

### 2.3 Aspect





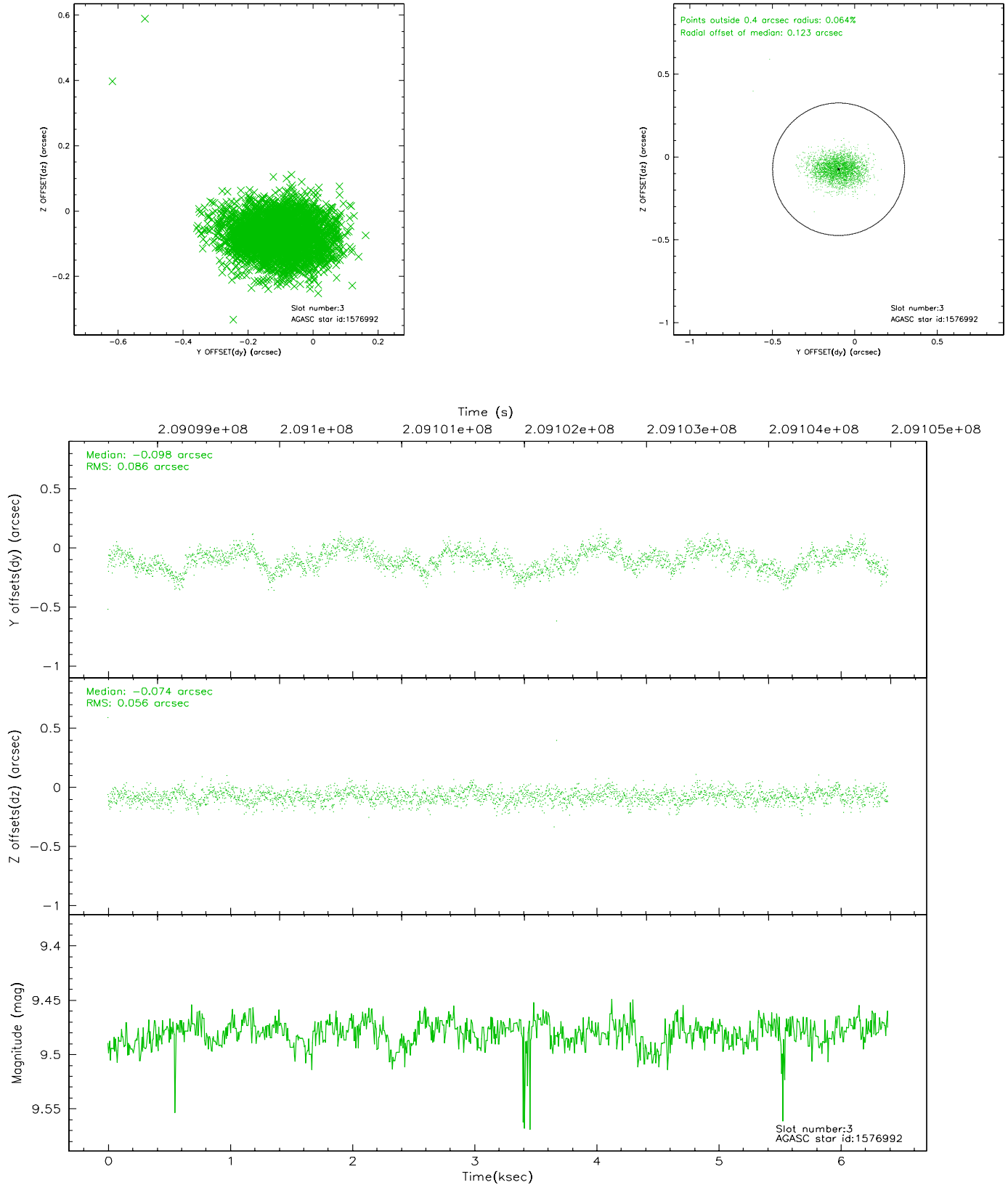
### Slot Statistics

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	1559	-0.026	-0.028	0.006	0.010	0.000000	0.000000	-757.26	-1729.39
1	FID	ACIS-S-4	7.20	1559	0.065	0.020	0.005	0.009	0.000000	0.000000	2155.71	178.17
2	FID	ACIS-S-5	7.23	1559	-0.070	0.017	0.006	0.010	0.000000	0.000000	-1808.94	172.92
3	GUIDE	1576992	9.48	3103	-0.098	-0.074	0.107	0.174	13.873856	2.296553	501.39	1086.81
4	GUIDE	1577424	7.34	3117	-0.081	0.155	0.051	0.084	14.496263	2.486296	389.45	-1250.69
5	GUIDE	1578704	8.82	3115	0.122	-0.131	0.062	0.103	14.213044	1.680901	-1996.47	685.18
6	GUIDE	1578896	6.71	3117	-0.007	0.189	0.064	0.099	14.415232	1.785609	-1887.69	-125.92
7	GUIDE	1581504	9.30	3115	0.064	-0.143	0.084	0.137	14.179515	1.875214	-1298.13	563.23

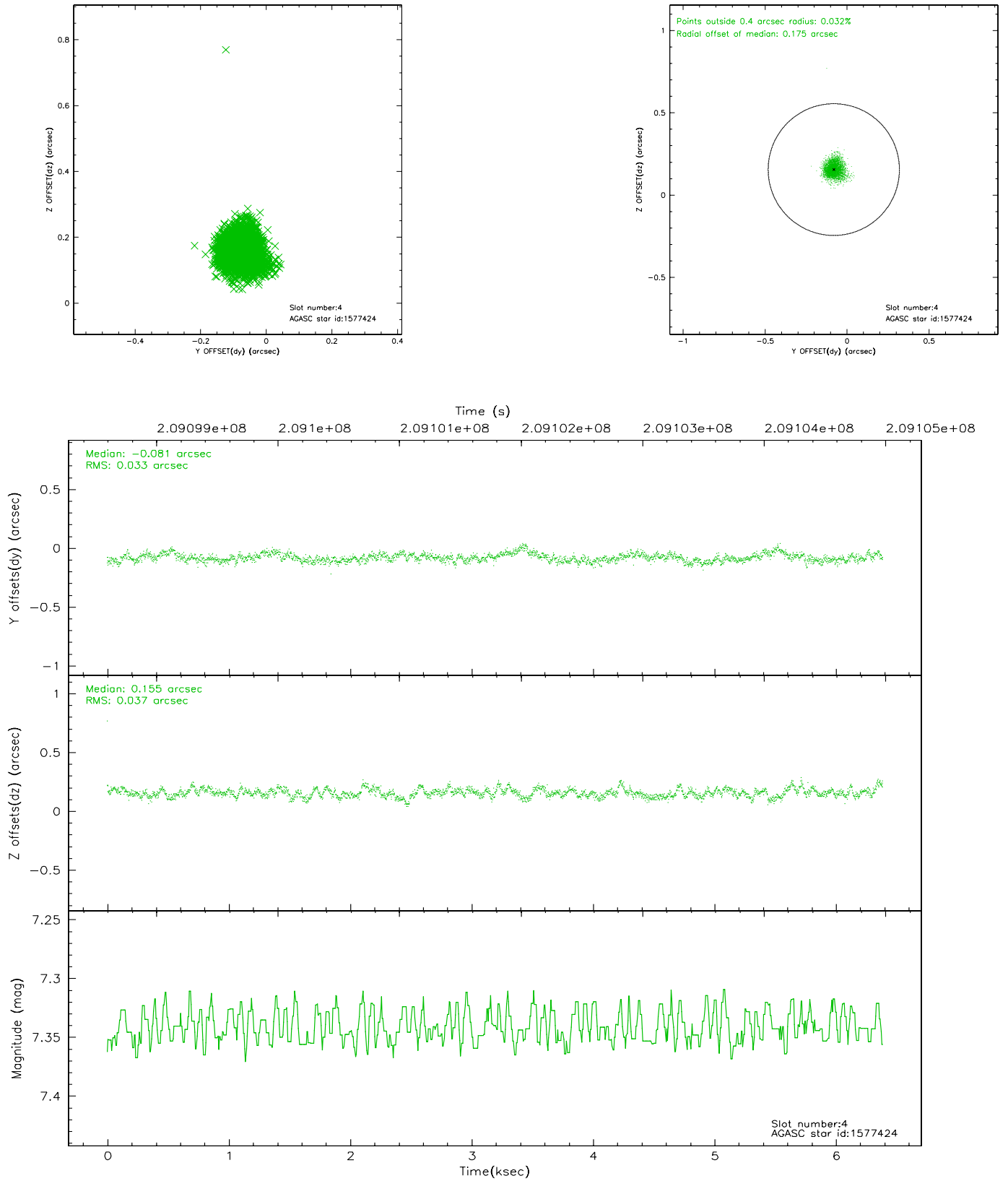


## 2.4 Star Slots

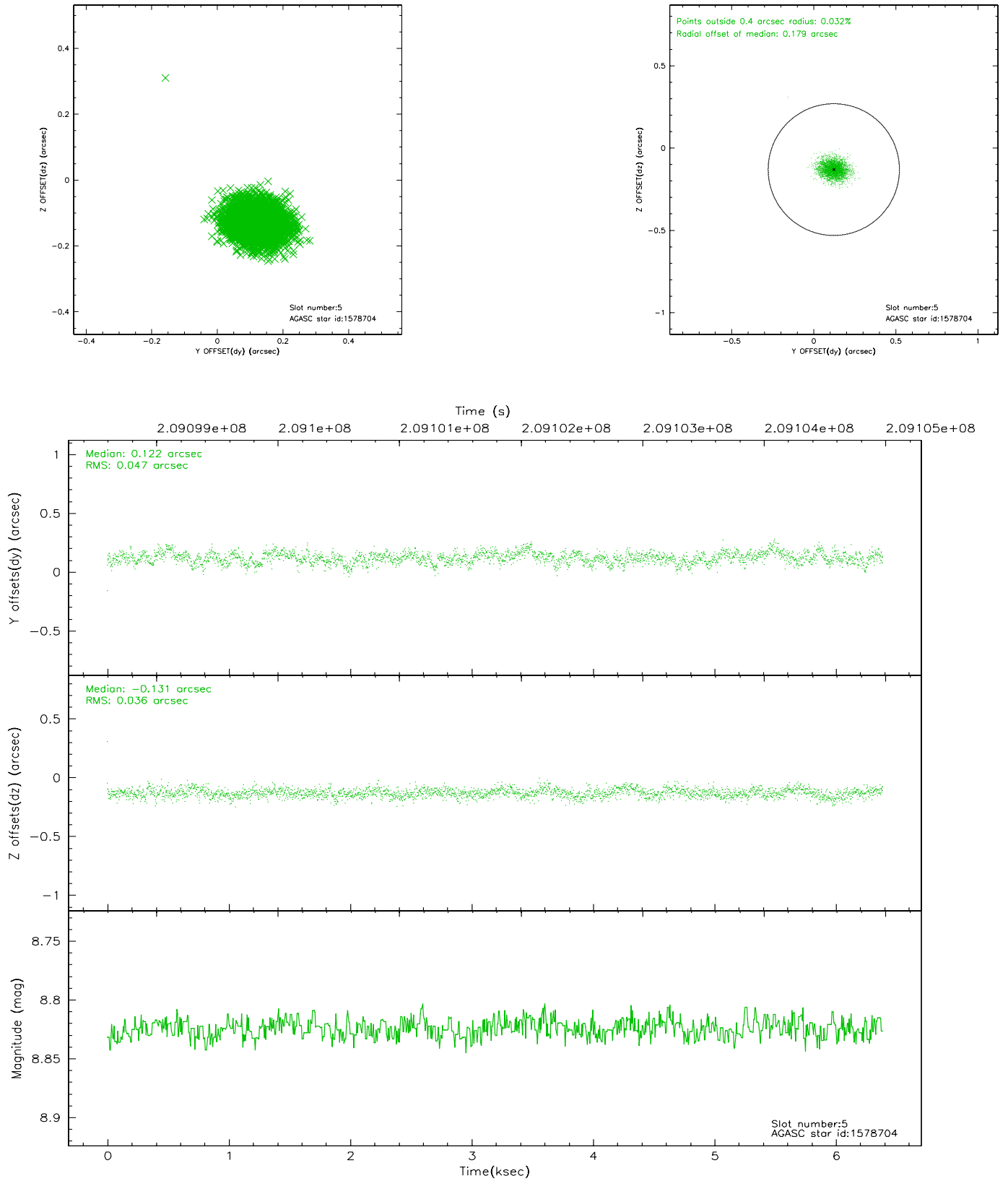
### 2.4.1 Slot 3



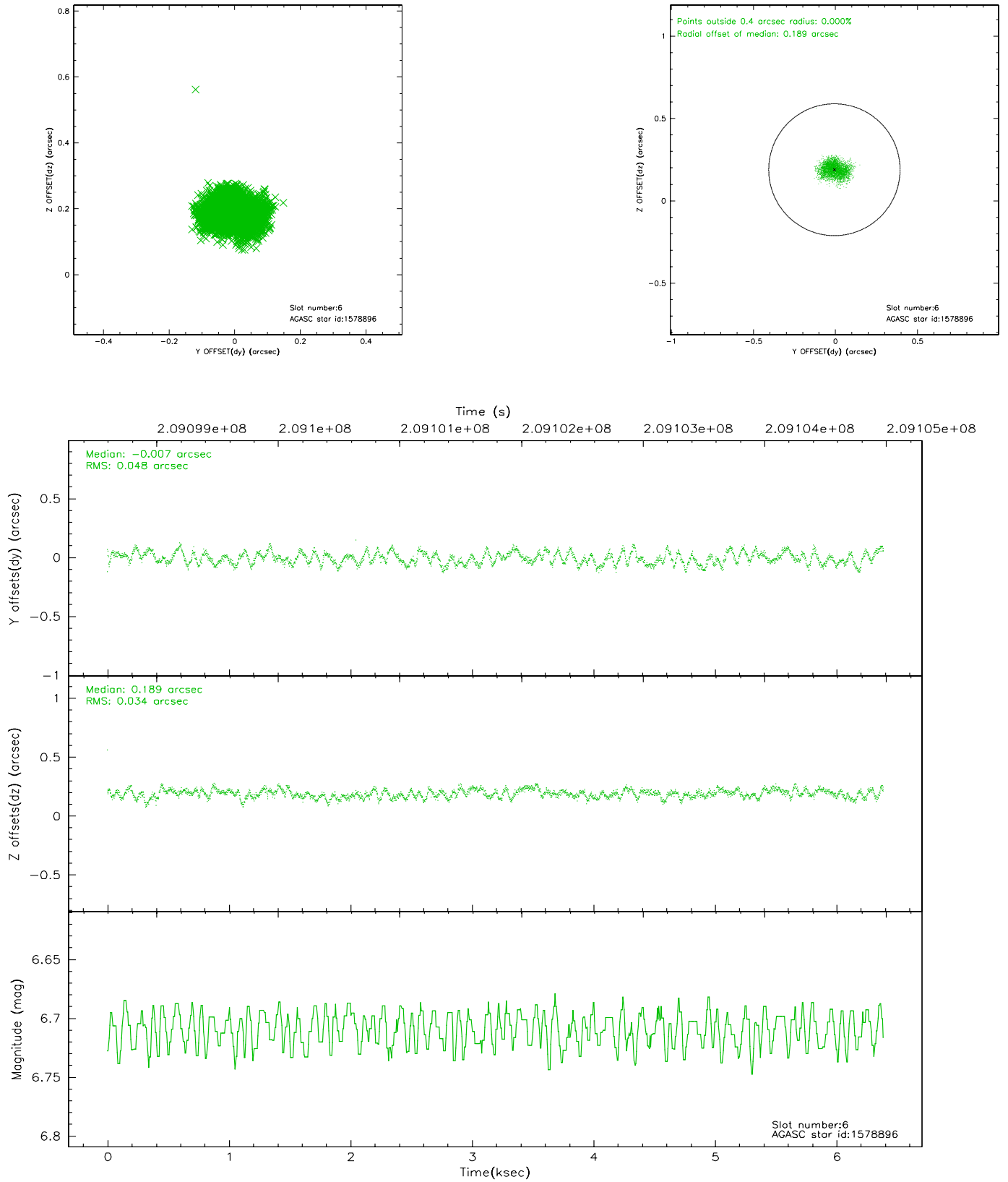
## 2.4.2 Slot 4



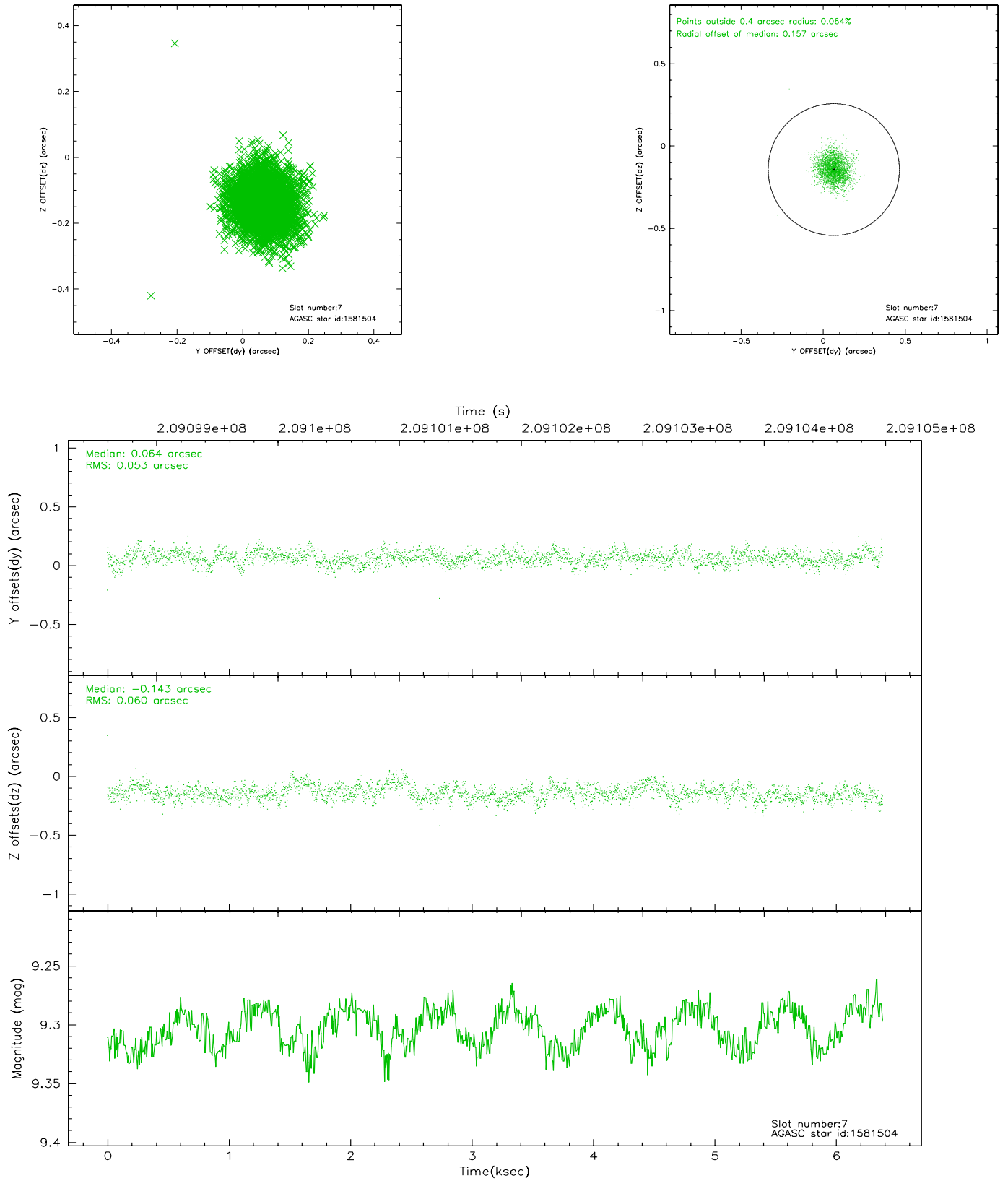
### 2.4.3 Slot 5



## 2.4.4 Slot 6

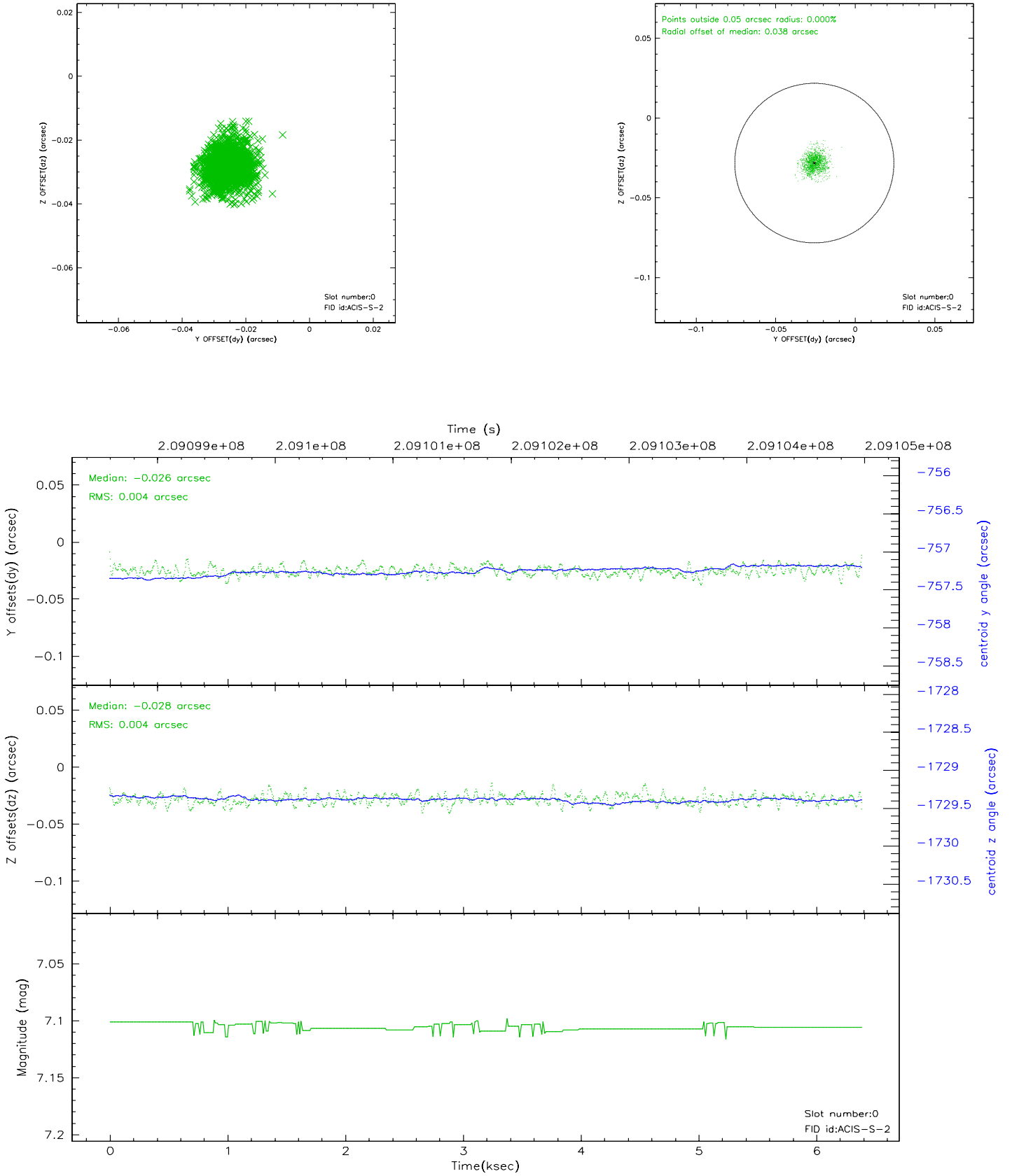


## 2.4.5 Slot 7

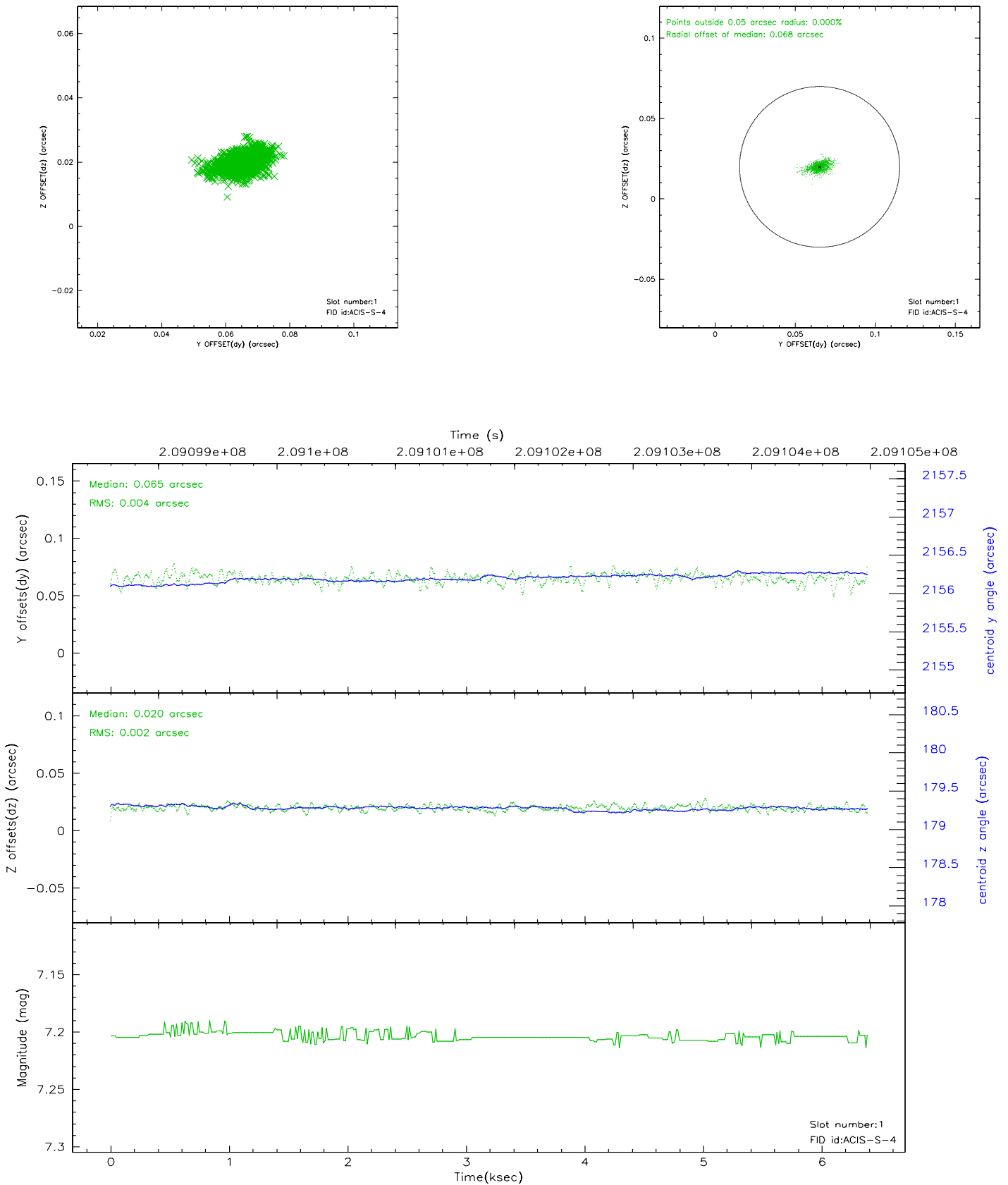


## 2.5 FID Slots

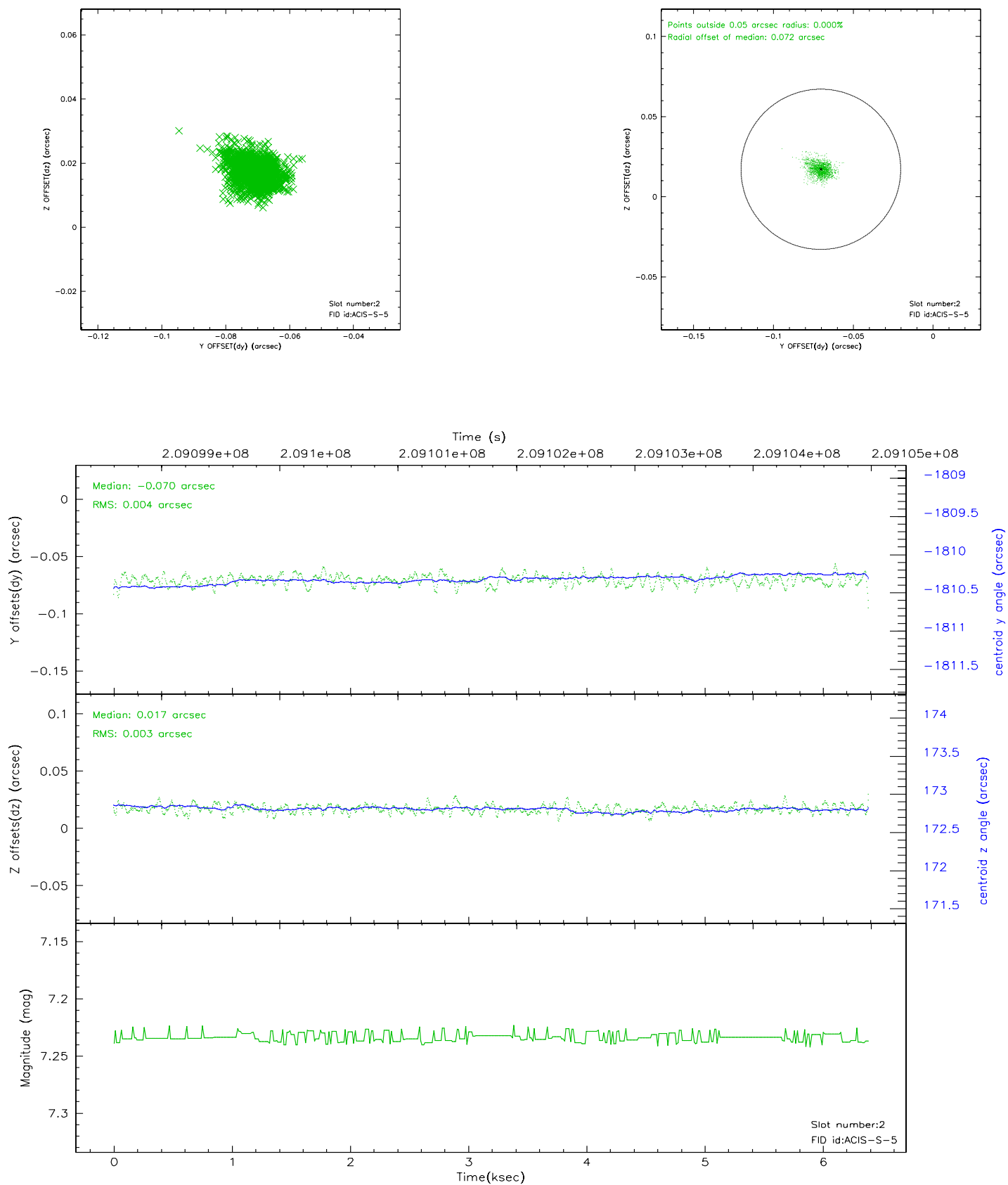
### 2.5.1 Slot 0



## 2.5.2 Slot 1

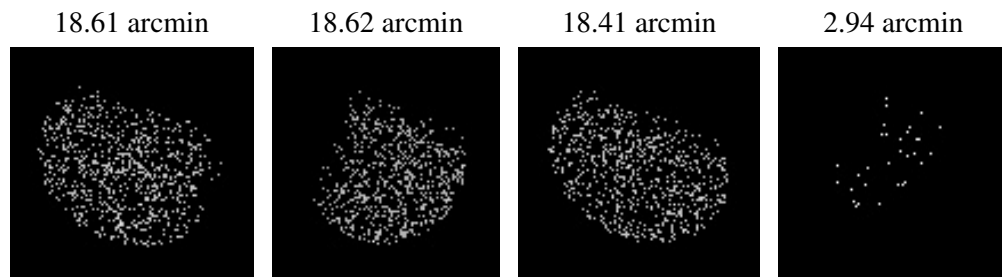


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.958

### A.2 Comments