

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3221 - L2 Version 001  
Chandra X-Ray Center

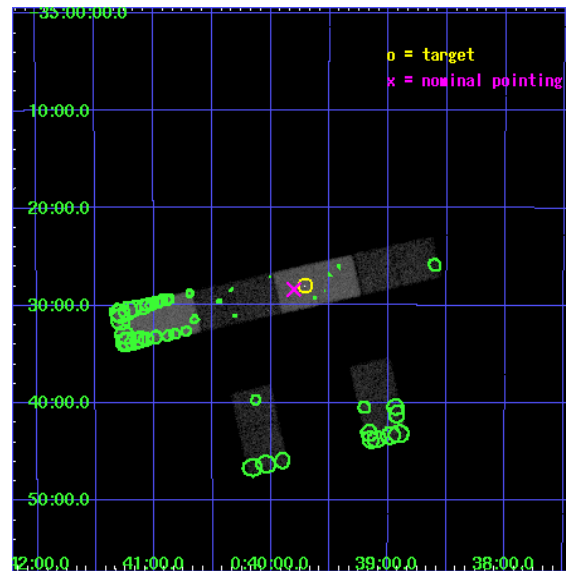
L2 Processing Date : Oct 7 2006

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# 1 Front

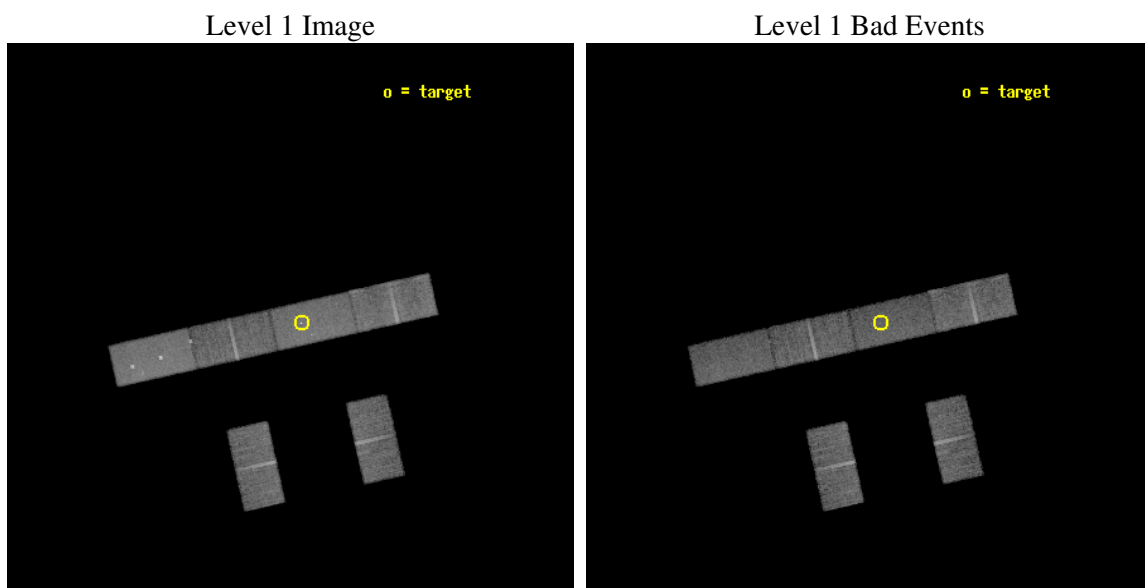
seq_num	800221
obs_id	3221
title	CHANDRA OBSERVATIONS OF A Z=0.84 GALAXY CLUSTER AND ITS CENTRAL HST QSO
observer	Dr Robert Schmidt
object	Q0037-3544
dtcycle	0
cycle	P
ra_targ	9.926833
dec_targ	-35.466944
ra_nom	9.9512006073438
dec_nom	-35.473165408105
roll_nom	347.37813305036
revision	2
ontime	18378.699871123
livetime	17945.474992481
ontime2	18378.699871123
ontime3	18378.699871123
ontime5	18378.699871123
ontime6	18378.699871123
ontime7	18378.699871123
ontime8	18378.699871123
l2events	97274



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 2

Chip 3

Chip 5



Chip 6

Chip 7

Chip 8



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-07T06:05:36
revision	2

sched_exp_time	18000.000000
ontime	18411.299493611
ontime2	18411.299493611
ontime3	18411.299493611
ontime5	18411.299493611
ontime6	18411.299493611
ontime7	18411.299493611
ontime8	18411.299493611
l1events	452319

### 2.1.4 Events

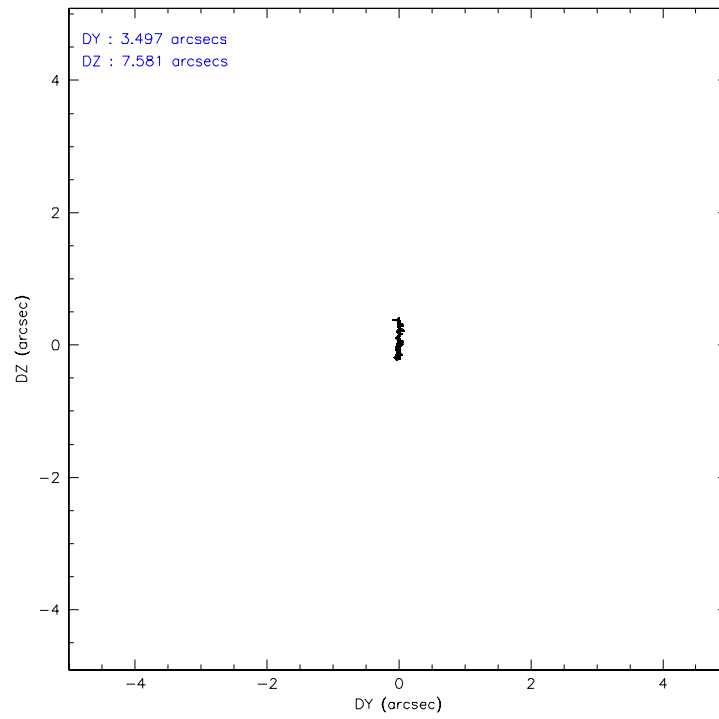
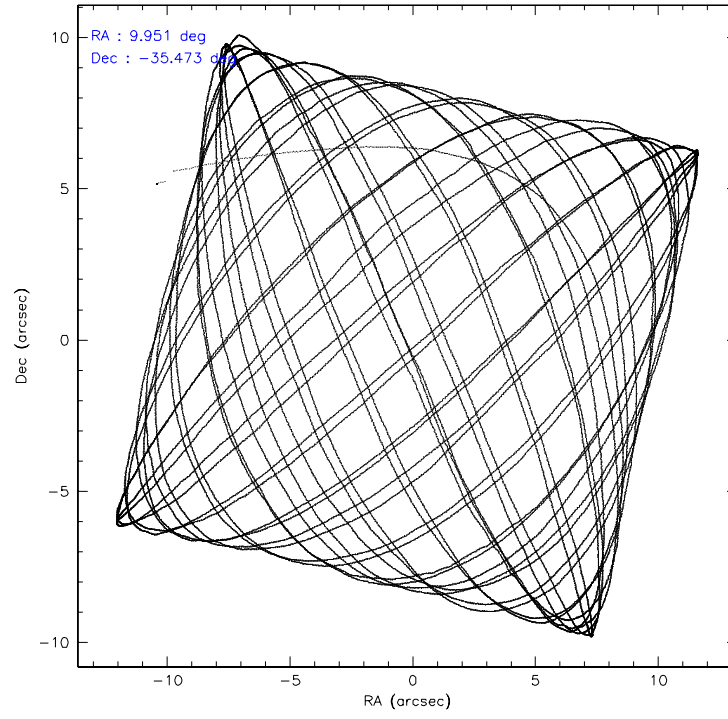
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	68768	62961	92418	64489	82589	81094
rejected events	61079	55744	49611	57012	48232	64784
rejected %	88%	88%	53%	88%	58%	79%

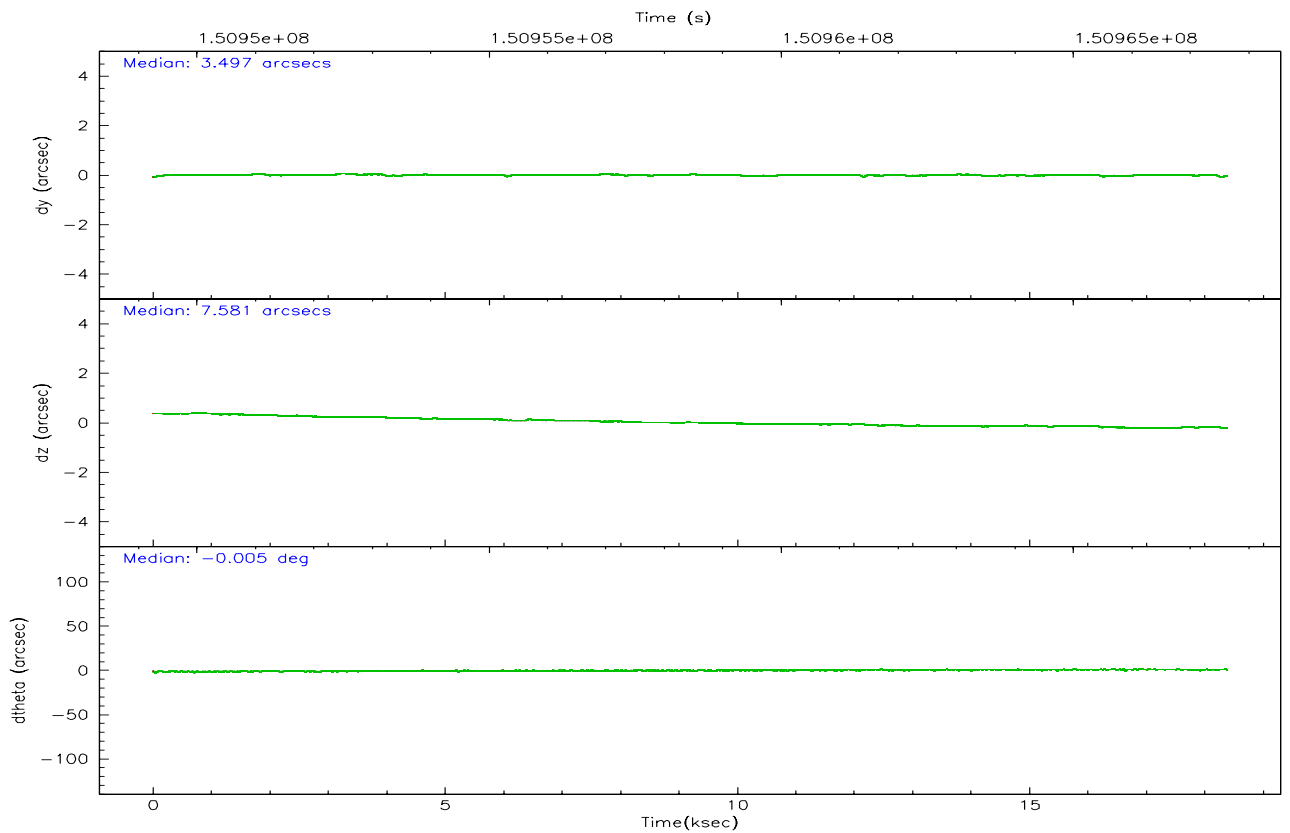
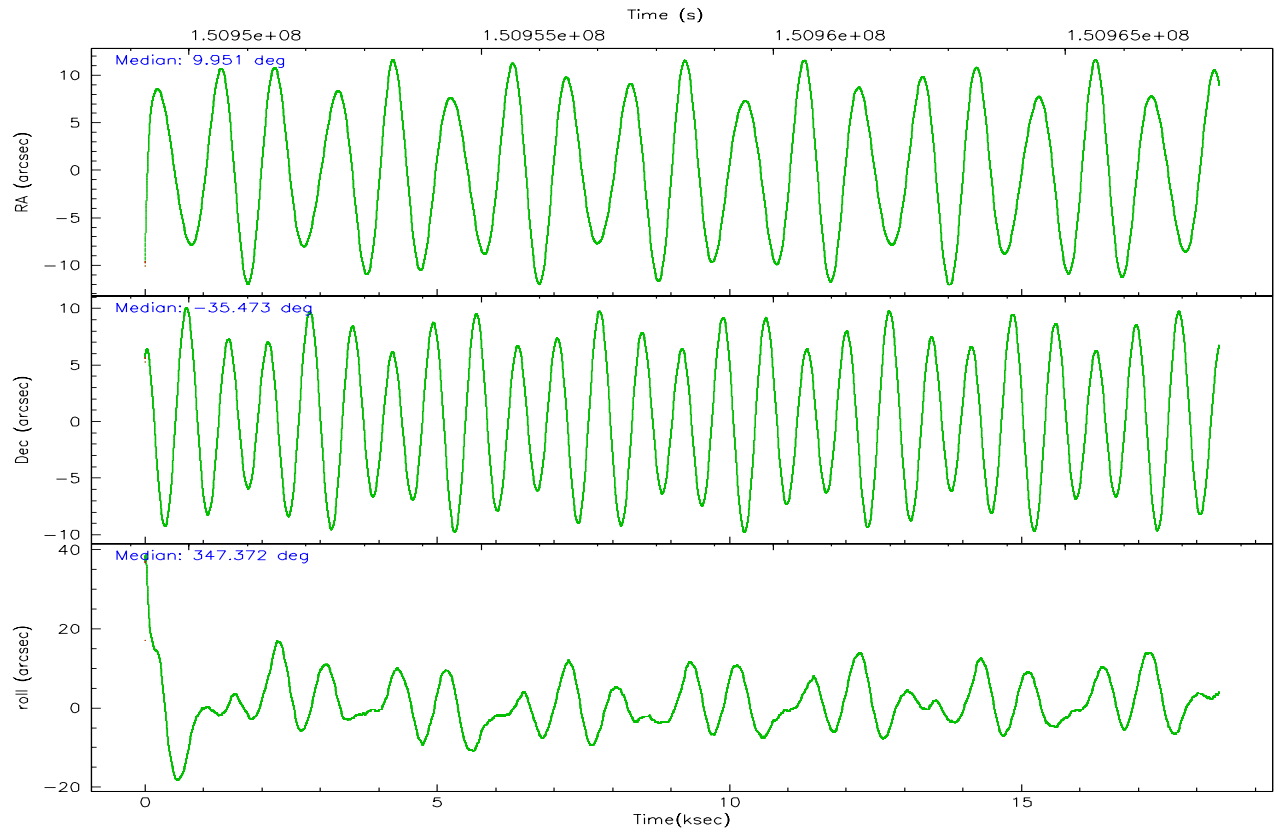
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3224	3006	6239	2932	2911	4941
	4%	4%	6%	4%	3%	6%
grade 1 events	30	37	251	21	61	35
	0%	0%	0%	0%	0%	0%
grade 2 events	1589	1282	11654	1479	7891	3522
	2%	2%	12%	2%	9%	4%
grade 3 events	839	893	1471	864	2578	1935
	1%	1%	1%	1%	3%	2%
grade 4 events	808	822	1345	869	2524	1763
	1%	1%	1%	1%	3%	2%
grade 5 events	2229	2370	4902	2634	6171	3370
	3%	3%	5%	4%	7%	4%
grade 6 events	1246	1223	22171	1350	18504	4203
	1%	1%	23%	2%	22%	5%
grade 7 events	58803	53328	44385	54340	41949	61325
	85%	84%	48%	84%	50%	75%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	9.919378	9.951200607343779	Subarray requested	CUSTOM	1/2
Pointing Dec	-35.481628	-35.47316540810514	Subarray start row	1	1
Pointing Roll	347.203010	347.3781330503639	Subarray row count	512	512
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.7
SIM translation stage pos (mm)	-183.992523	-183.9900508222561			
SIM translation stage offset (mm)	-6.14	-6.142471760751675			
Observation start time	150949629.184000	150948562.13336			
Observation start date	2002-10-14T02:26:05	2002-10-14T02:09:22			
Observation end time	150967629.184000	150968477.88418			
Observation end date	2002-10-14T07:26:05	2002-10-14T07:41:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect





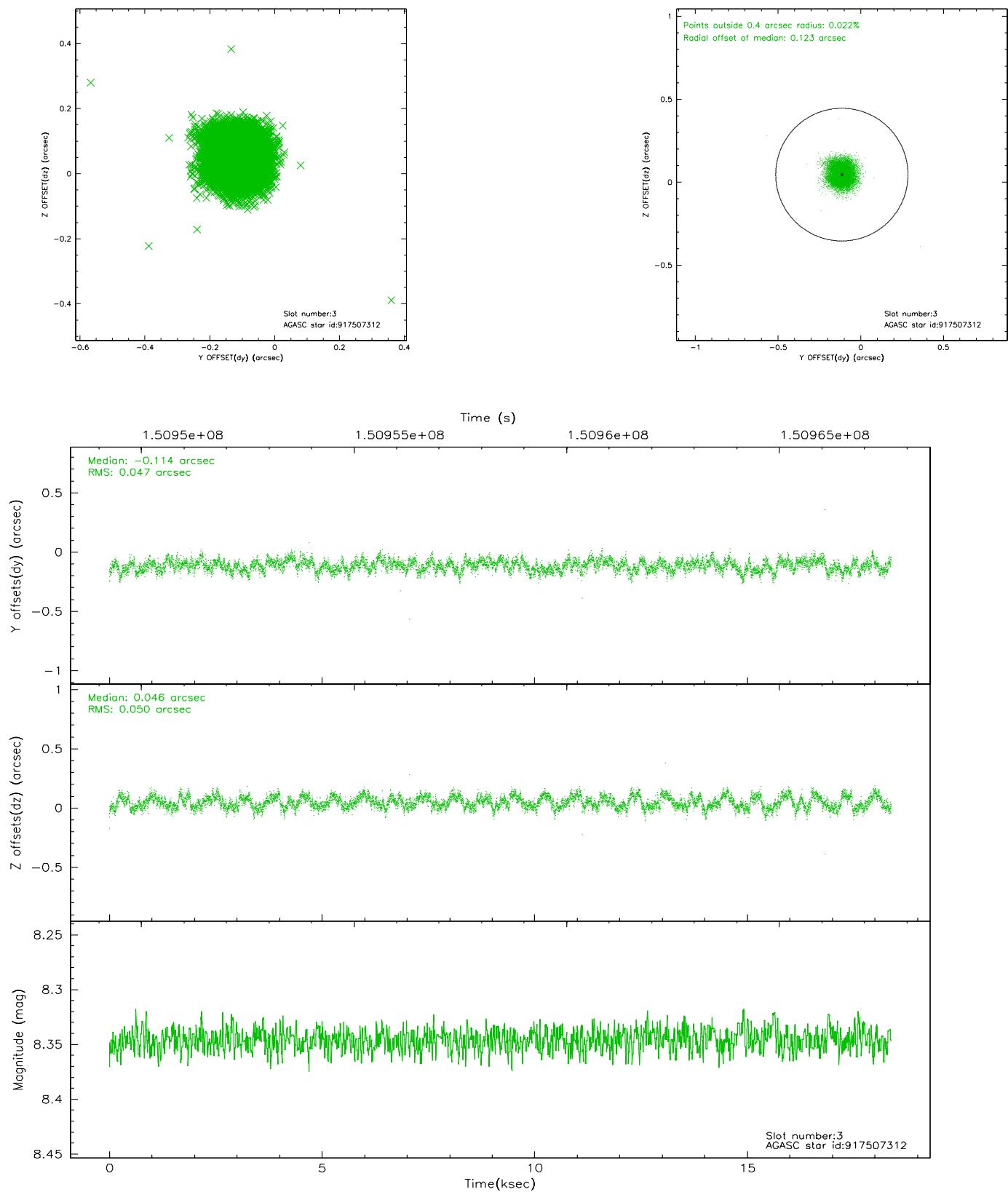
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	4483	-0.046	-0.050	0.011	0.019	0.000000	0.000000	-755.73	-1855.47
1	FID	ACIS-S-4	7.19	4483	-0.003	0.035	0.005	0.009	0.000000	0.000000	2157.46	52.88
2	FID	ACIS-S-5	7.23	4484	0.018	0.023	0.010	0.017	0.000000	0.000000	-1808.26	46.72
3	GUIDE	917507312	8.35	8966	-0.114	0.046	0.073	0.113	9.328831	-35.420209	-1737.06	-173.50
4	GUIDE	917509520	9.24	8962	-0.062	-0.024	0.094	0.149	9.679818	-35.593919	-594.18	-550.71
5	GUIDE	917519224	10.15	8954	0.098	-0.012	0.202	0.312	10.630950	-35.384232	1960.72	797.08
6	GUIDE	917519312	10.11	8960	0.013	0.063	0.136	0.221	10.745904	-35.314785	2237.36	1113.74
7	GUIDE	917508728	8.16	8965	0.062	-0.063	0.067	0.105	9.719945	-35.944061	-197.31	-1752.92

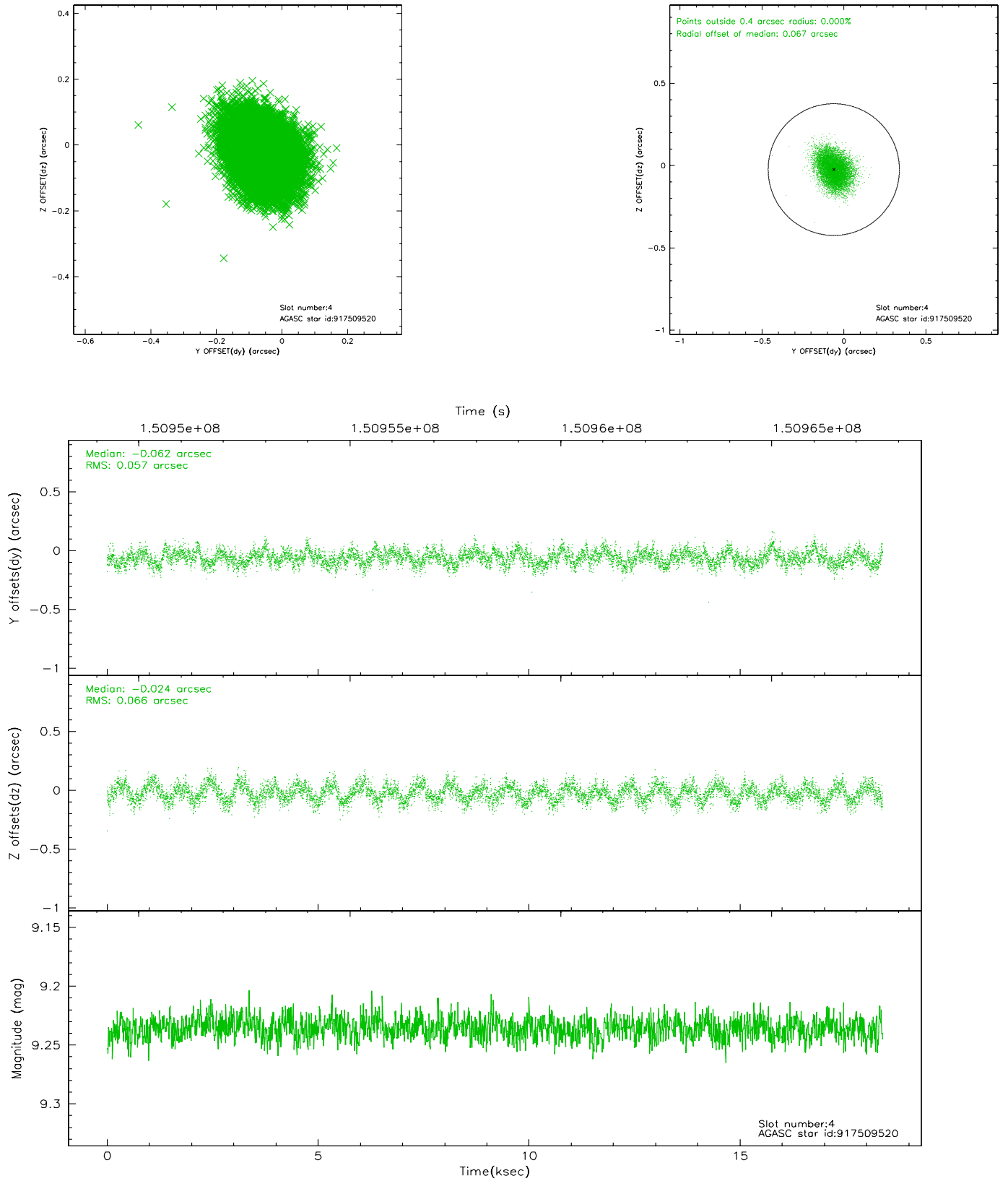


## 2.4 Star Slots

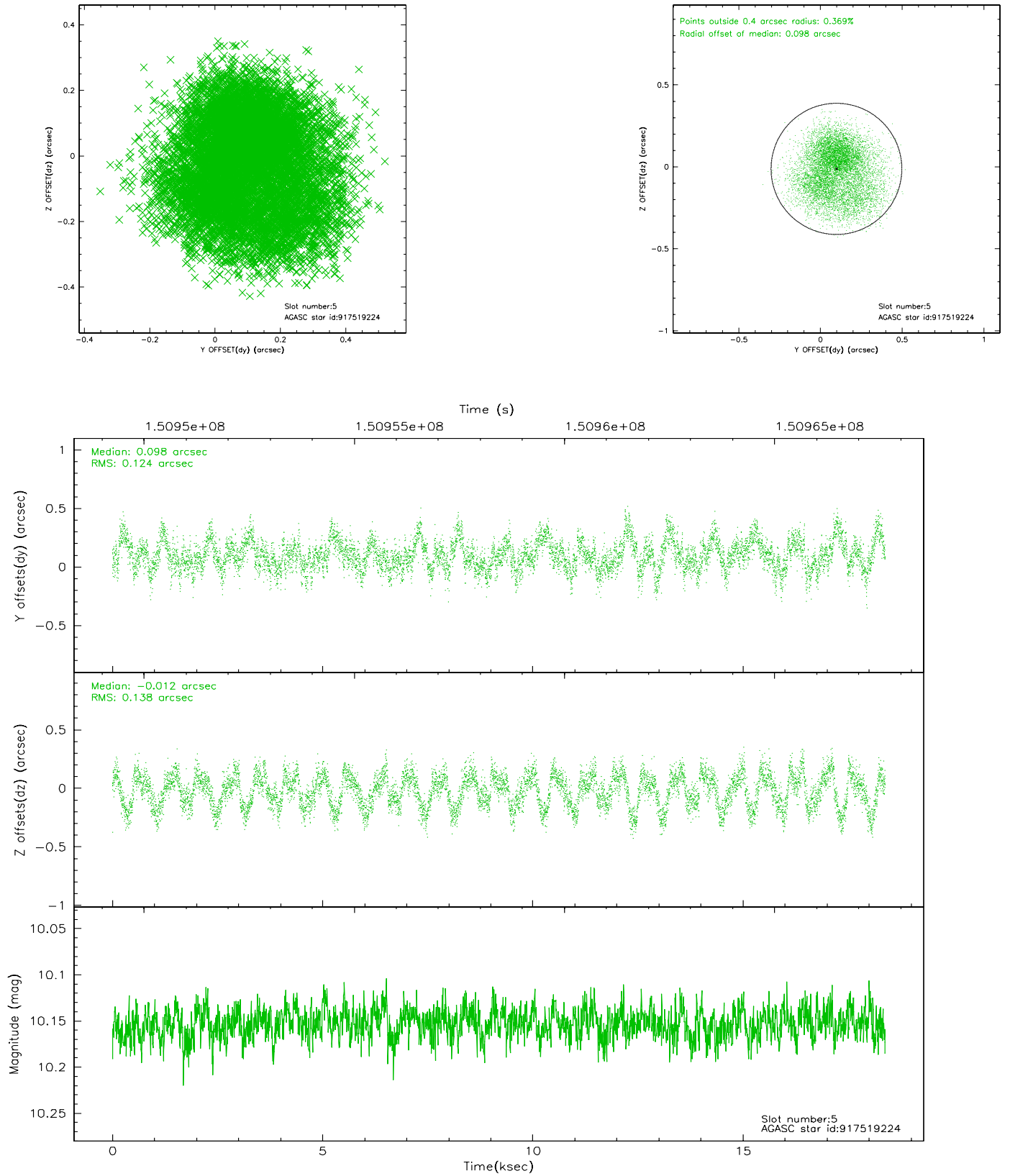
### 2.4.1 Slot 3



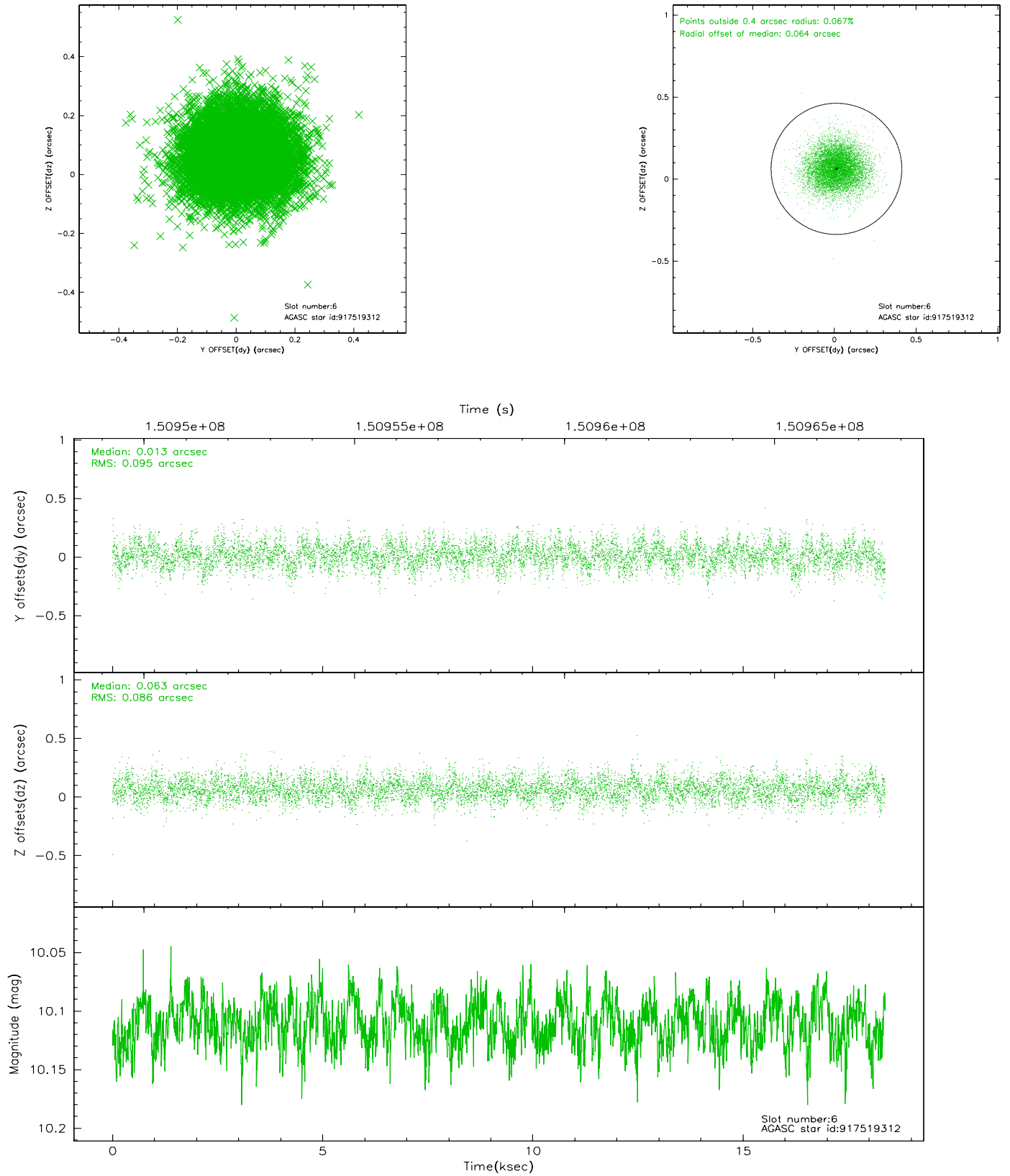
## 2.4.2 Slot 4



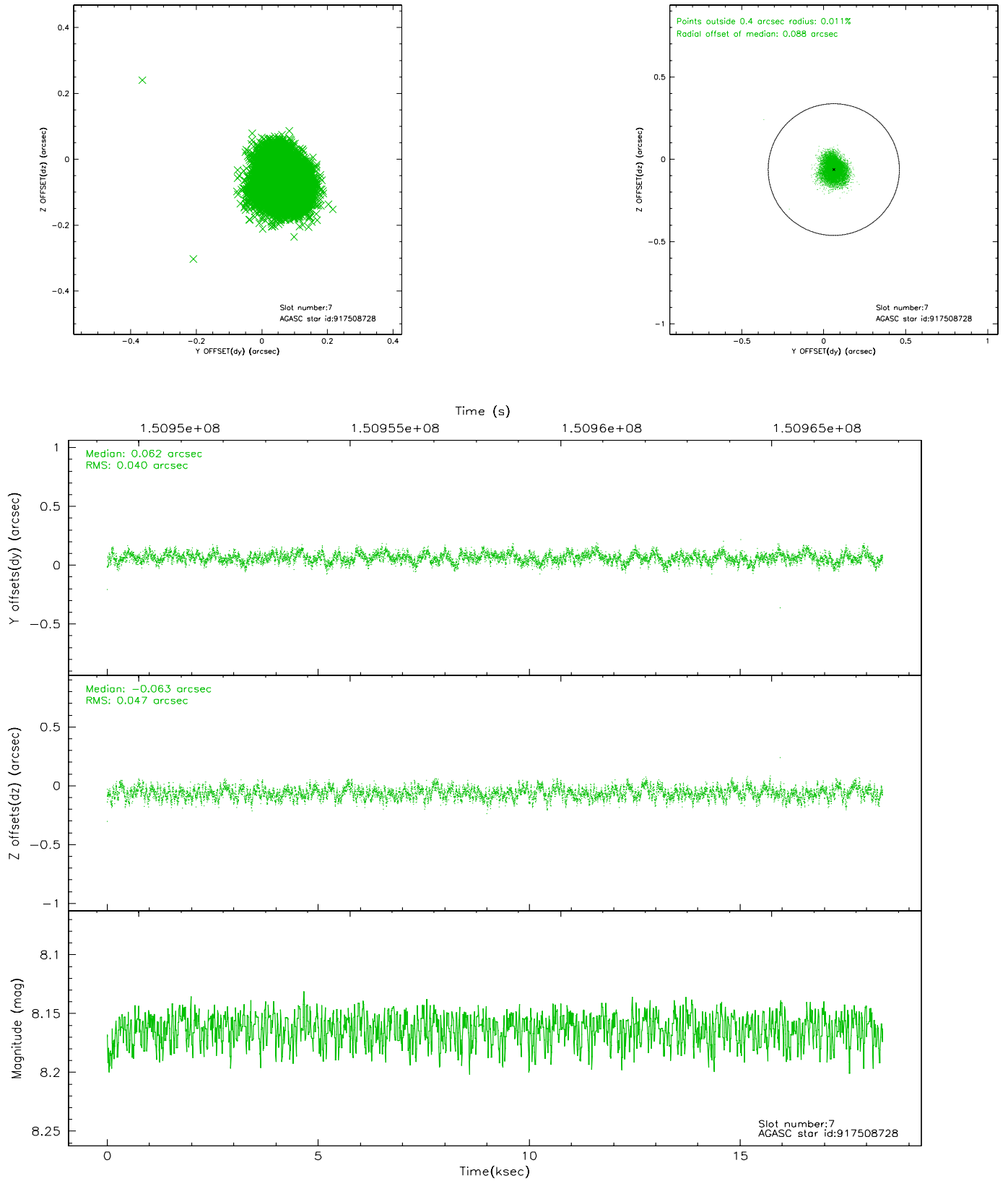
### 2.4.3 Slot 5



## 2.4.4 Slot 6

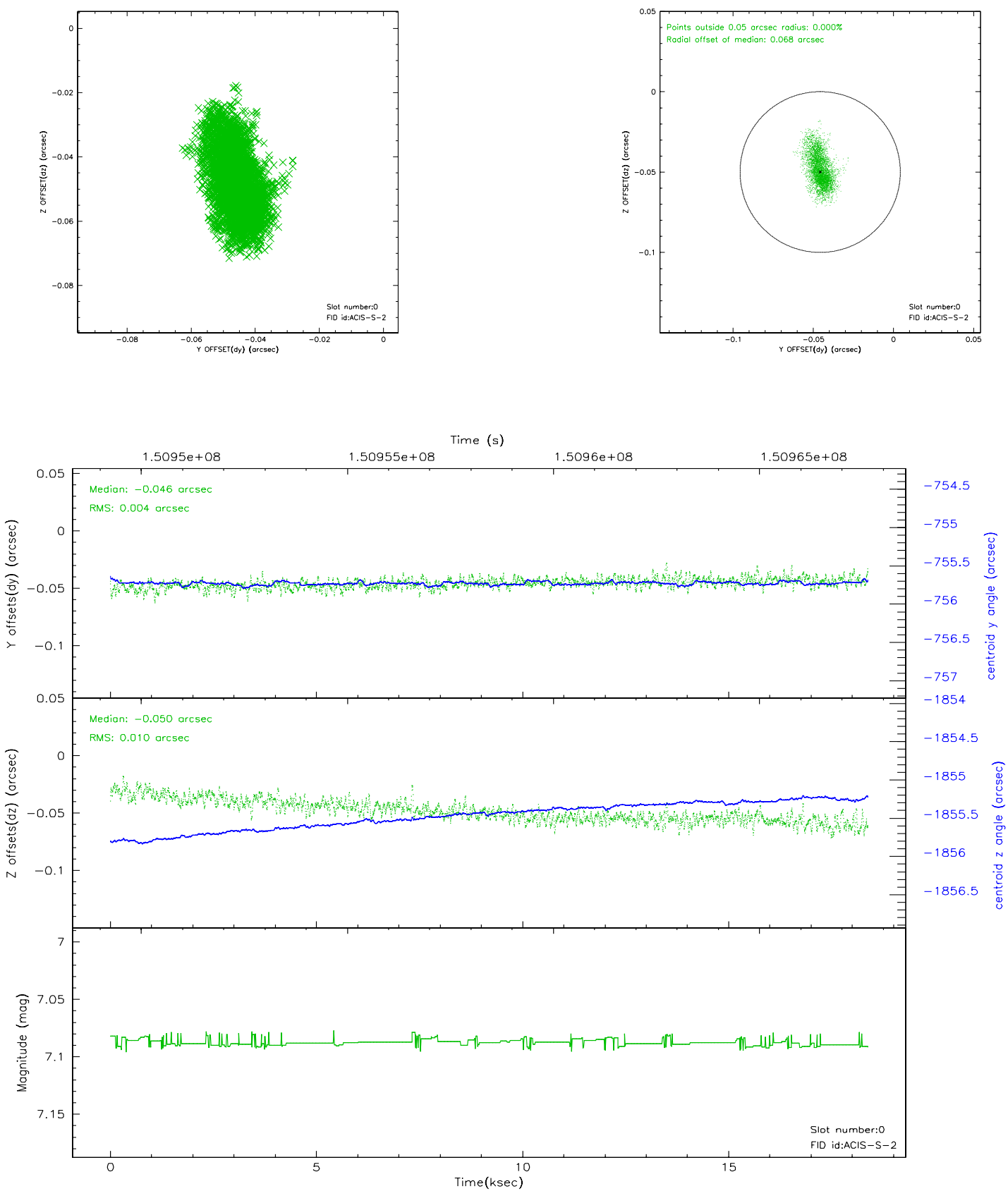


## 2.4.5 Slot 7

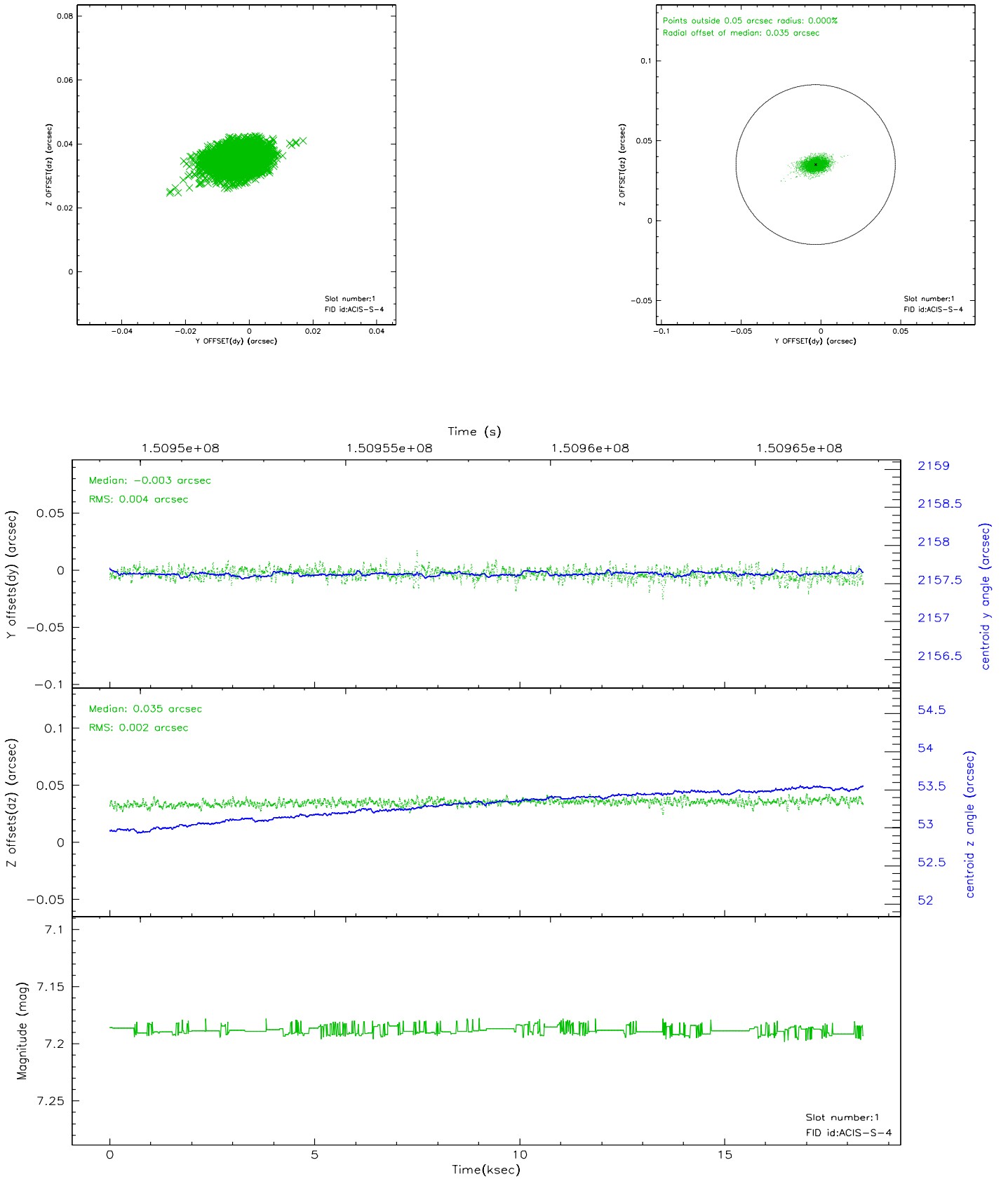


## 2.5 FID Slots

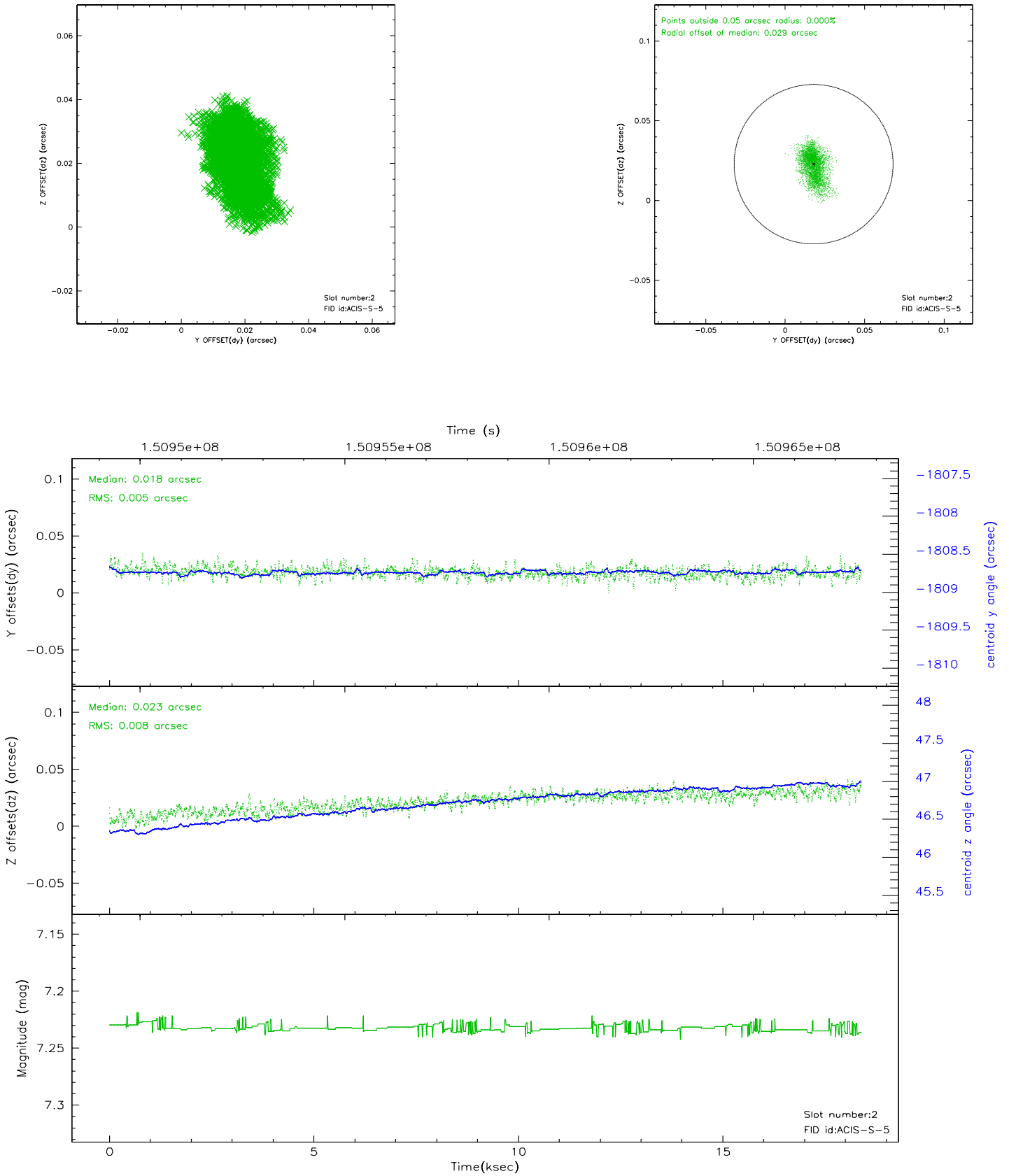
### 2.5.1 Slot 0



## 2.5.2 Slot 1

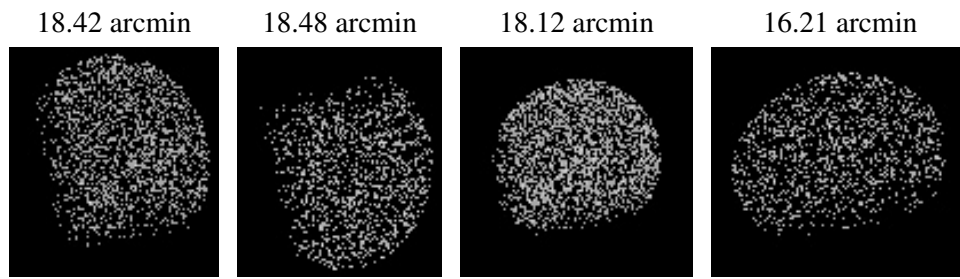


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.378

### A.2 Comments