

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16119 - L2 Version 1  
Chandra X-Ray Center

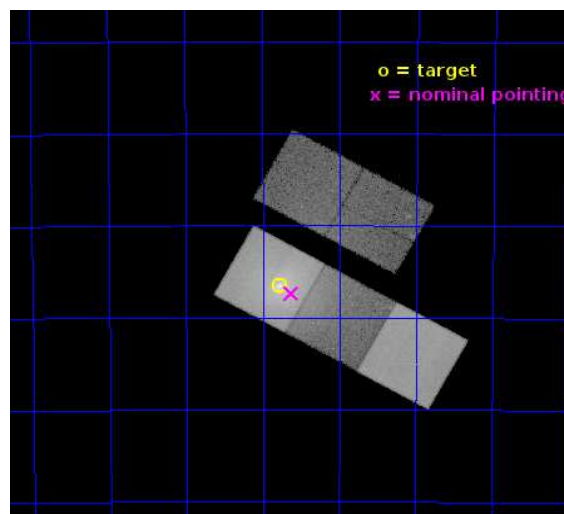
L2 Processing Date : Sep 19 2014

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# 1 Front

seq_num	801373	Sequence number
obs_id	16119	Observation id
title	RXJ1324.7-5736: one of the closest and brightest cool core clusters	&#160
observer	Dr Ming Sun	Principal investigator
object	RXJ1324.7-5736	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.19375	Observer's specified target RA [deg]
dec_targ	-57.608833	Observer's specified target Dec [deg]
ra_nom	201.15653188503	Nominal RA [deg]
dec_nom	-57.622821093198	Nominal Dec [deg]
roll_nom	209.05896613173	Nominal Roll [deg]
revision	1	Processing version of data
ontime	49871.630888999	Sum of GTIs [s]
livetime	49220.021316473	Livetime [s]
ontime2	49868.325758576	Sum of GTIs [s]
ontime3	49871.507768989	Sum of GTIs [s]
ontime5	49871.589848995	Sum of GTIs [s]
ontime6	49868.407838643	Sum of GTIs [s]
ontime7	49871.630888999	Sum of GTIs [s]
l2events	547717	Number of level 2 events

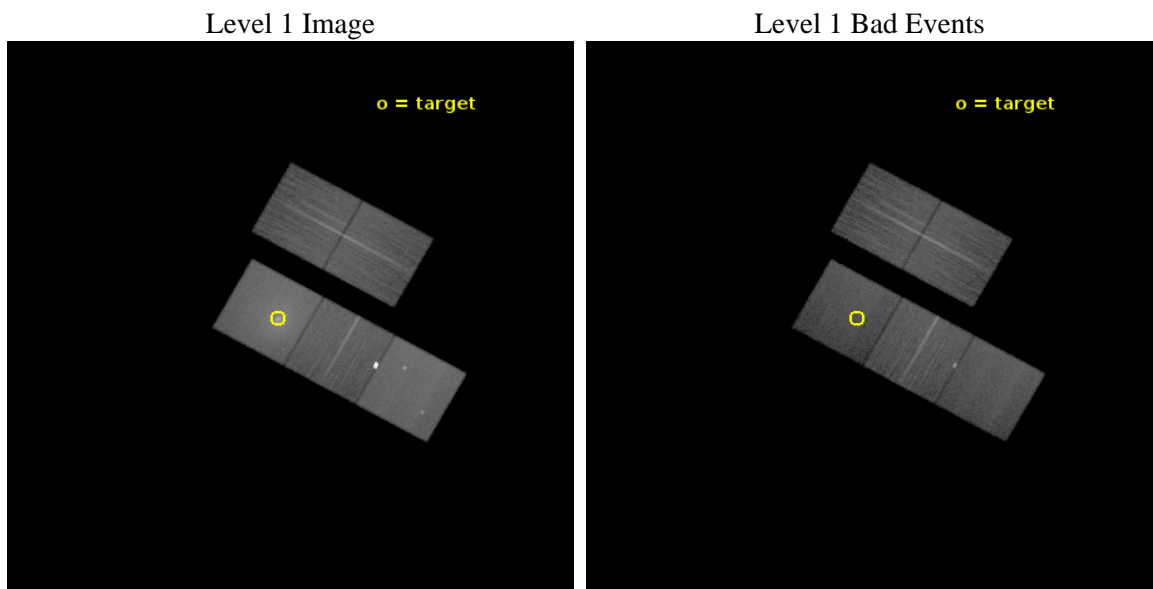




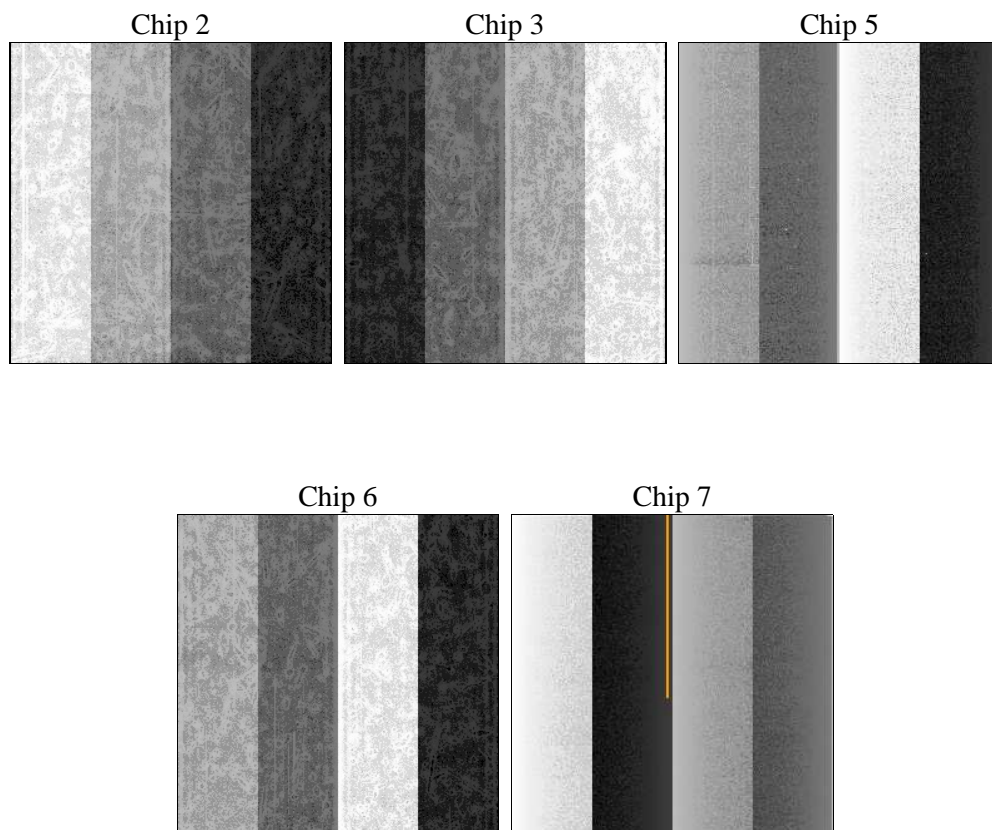
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49760.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	49871.630888999	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime2	49868.325758576	Sum of GTIs [s]
date	2014-09-19T12:55:49	Date and time of file creation	ontime3	49871.507768989	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	49871.589848995	Sum of GTIs [s]
			ontime6	49868.407838643	Sum of GTIs [s]
			ontime7	49871.630888999	Sum of GTIs [s]
			l1events	1602138	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	227307	217442	348038	390328	419023	grade 0 events	14766	13721	13371	79537	48156
rejected events	194896	186693	170996	200915	145027		6%	6%	3%	20%	11%
rejected %	85%	85%	49%	51%	34%	grade 1 events	146	140	426	407	304
							0%	0%	0%	0%	0%
						grade 2 events	7029	6216	56400	94901	66516
							3%	2%	16%	24%	15%
						grade 3 events	2825	2846	7133	3865	28241
							1%	1%	2%	0%	6%
						grade 4 events	2869	2809	6665	3860	27615
							1%	1%	1%	0%	6%
						grade 5 events	8576	10303	26974	10905	29403
							3%	4%	7%	2%	7%
						grade 6 events	4922	5157	93484	7264	103491
							2%	2%	26%	1%	24%
						grade 7 events	186174	176250	143585	189589	115297
							81%	81%	41%	48%	27%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	201.182281	201.1565318850292	CCD I2 on	O1	Y
[deg] Pointing Dec	-57.599094	-57.62282109319849	CCD I3 on	Y	Y
[deg] Pointing Roll	208.924081	209.0589661317297	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	N	N
[s] Observation start time (MET)	527429851.184000	527428812.49957	CCD S5 on	N	N
Observation start date	2014-09-18T12:16:24	2014-09-18T12:00:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	527479611.184000	527480122.97742	On-chip summing requested	N	N
Observation end date	2014-09-19T02:05:44	2014-09-19T02:15:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect

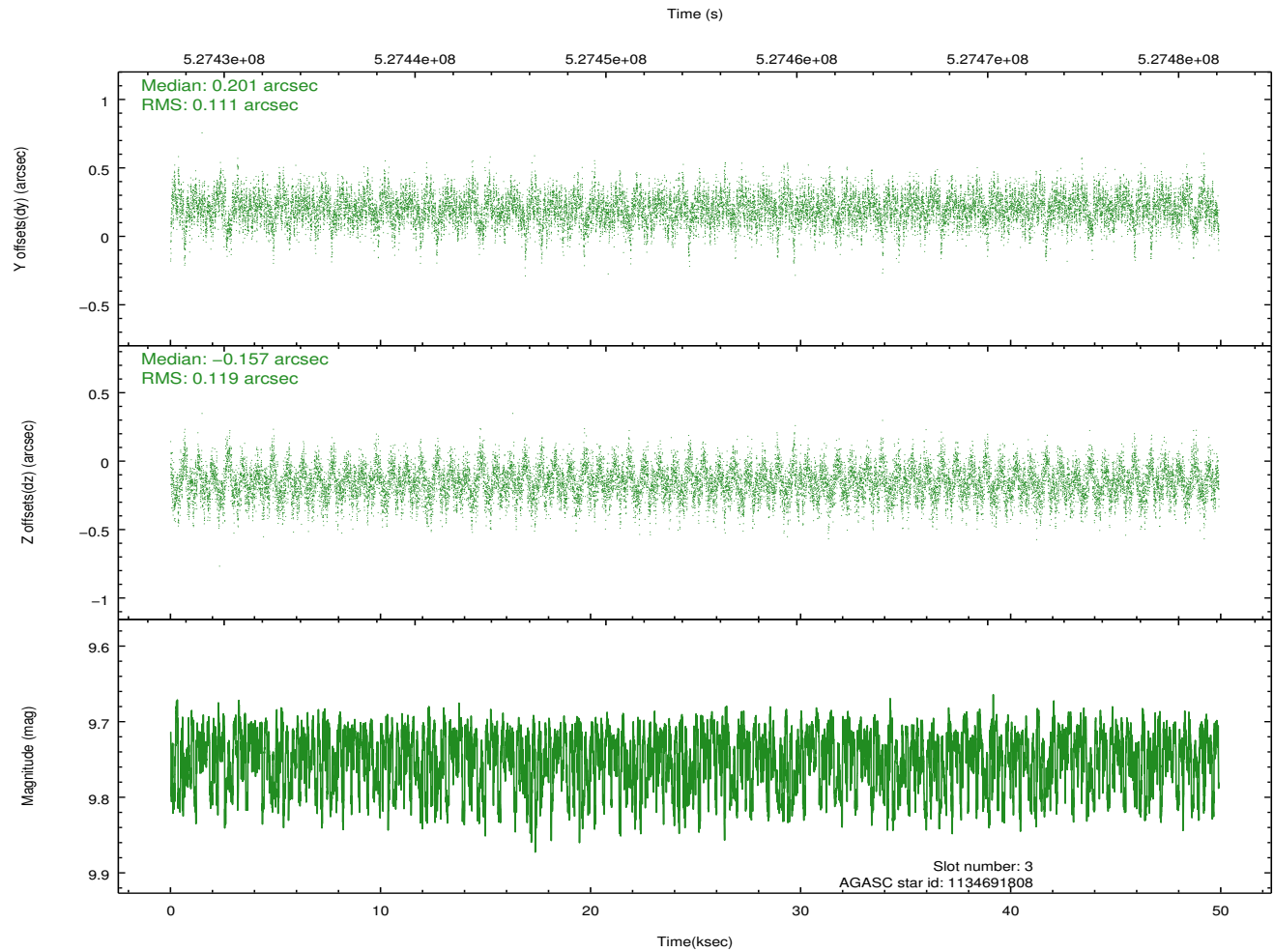
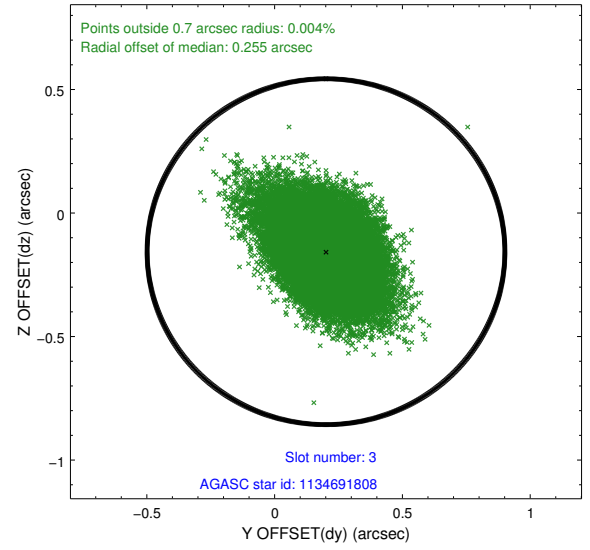
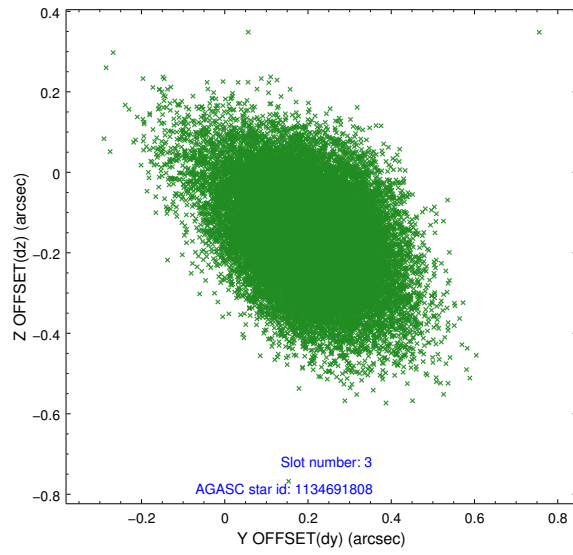


### Slot Statistics

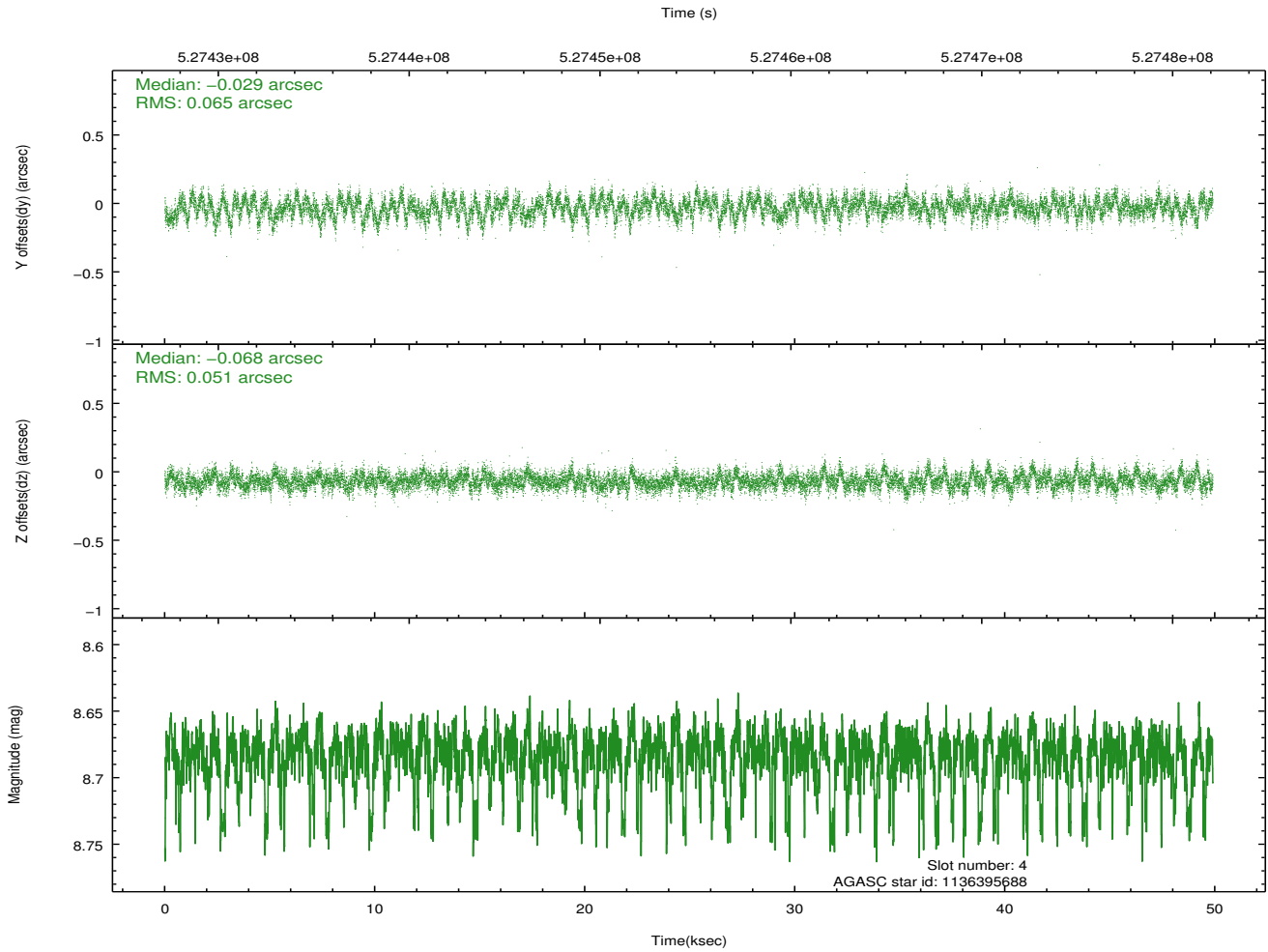
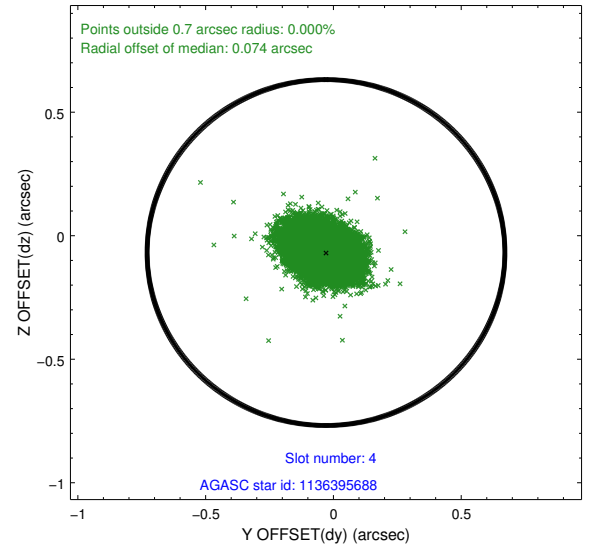
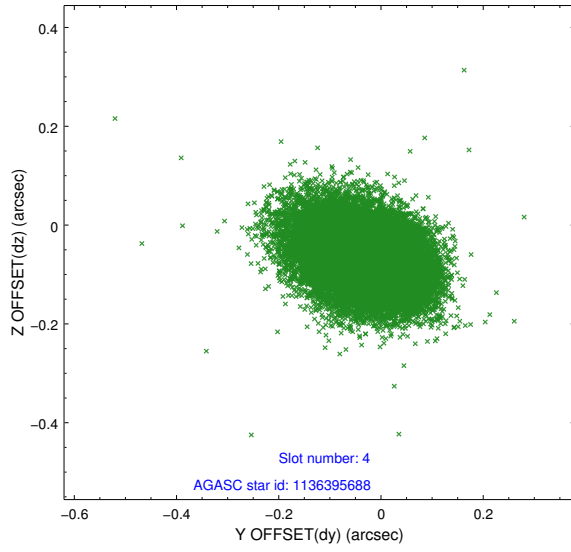
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	12172	-0.205	-0.123	0.008	0.016	0.000000	0.000000	-777.91	-1743.94
1	FID	ACIS-S-4	7.04	12171	0.225	0.123	0.008	0.013	0.000000	0.000000	2135.90	164.66
2	FID	ACIS-S-6	7.19	12172	-0.049	0.007	0.009	0.017	0.000000	0.000000	384.34	802.00
3	GUIDE	1134691808	9.75	24319	0.201	-0.157	0.169	0.288	199.918429	-57.243256	1547.06	-2291.40
4	GUIDE	1136395688	8.68	24329	-0.029	-0.068	0.087	0.145	201.651545	-57.741341	-538.33	887.26
5	GUIDE	1136401304	9.10	24326	-0.037	0.120	0.137	0.208	201.755026	-57.211583	-1649.36	-676.61
6	GUIDE	1136403944	8.96	24324	0.052	-0.004	0.097	0.158	200.013987	-57.625576	2026.99	-988.14
7	GUIDE	1136404048	9.62	24312	-0.188	0.112	0.162	0.262	200.615834	-57.458692	719.34	-968.74

## 2.4 Star Slots

### 2.4.1 Slot 3

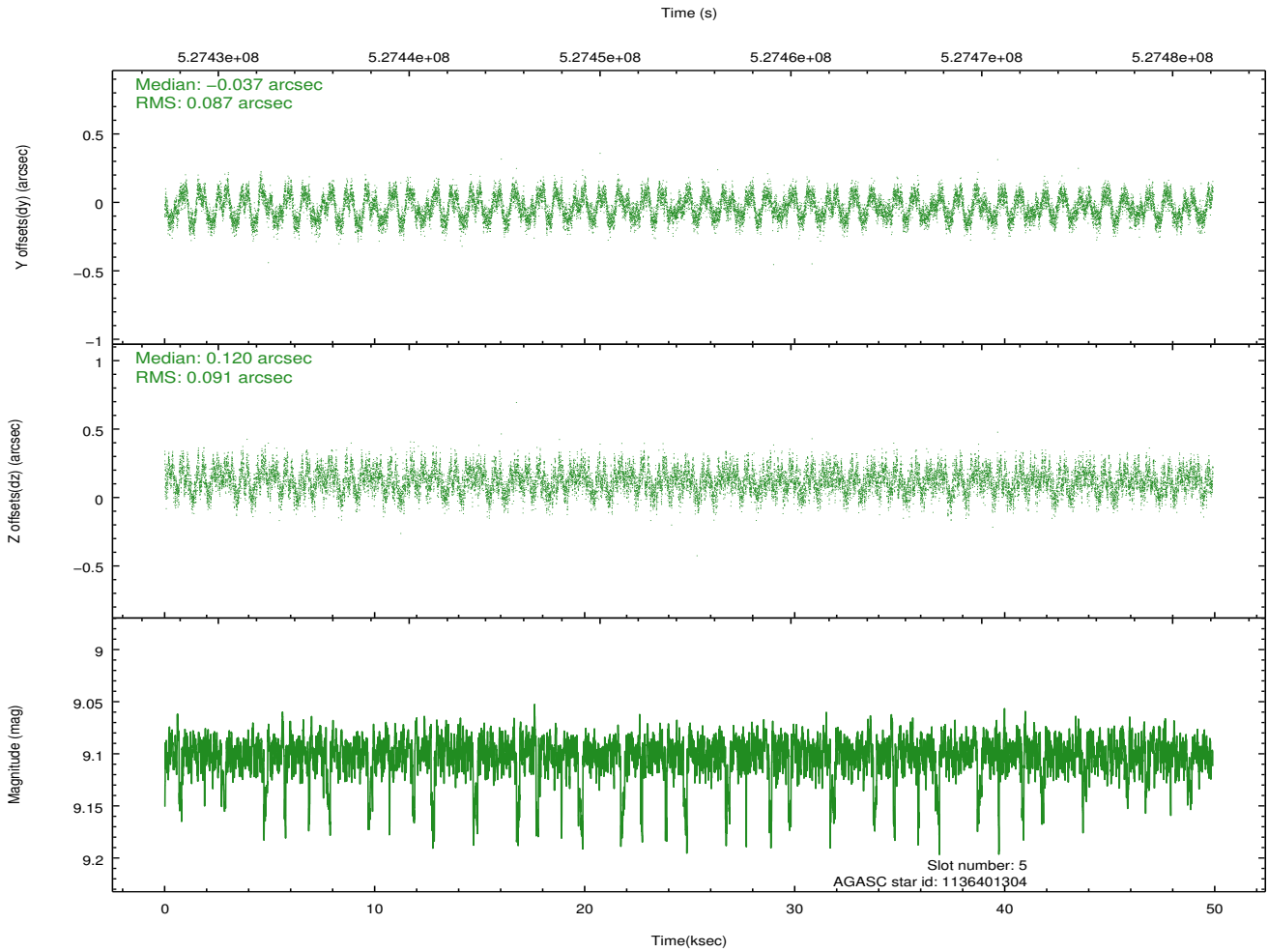
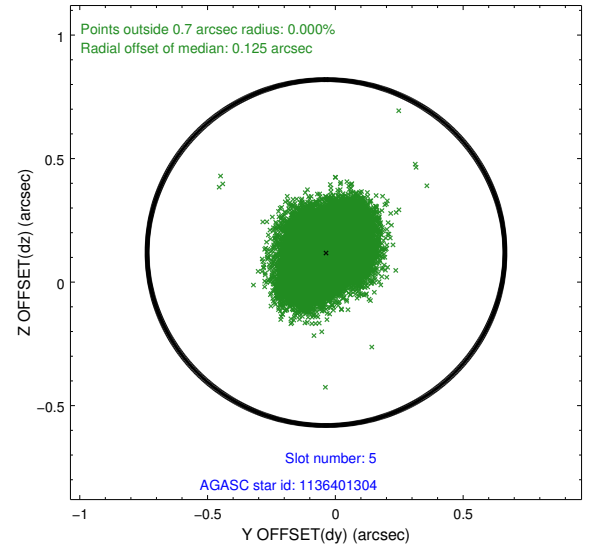
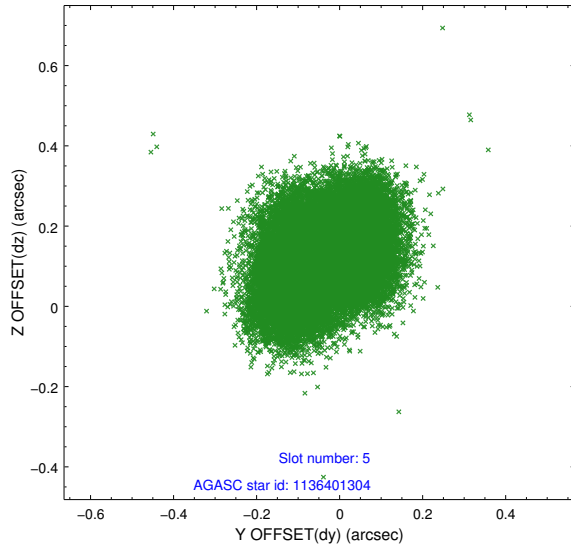


## 2.4.2 Slot 4

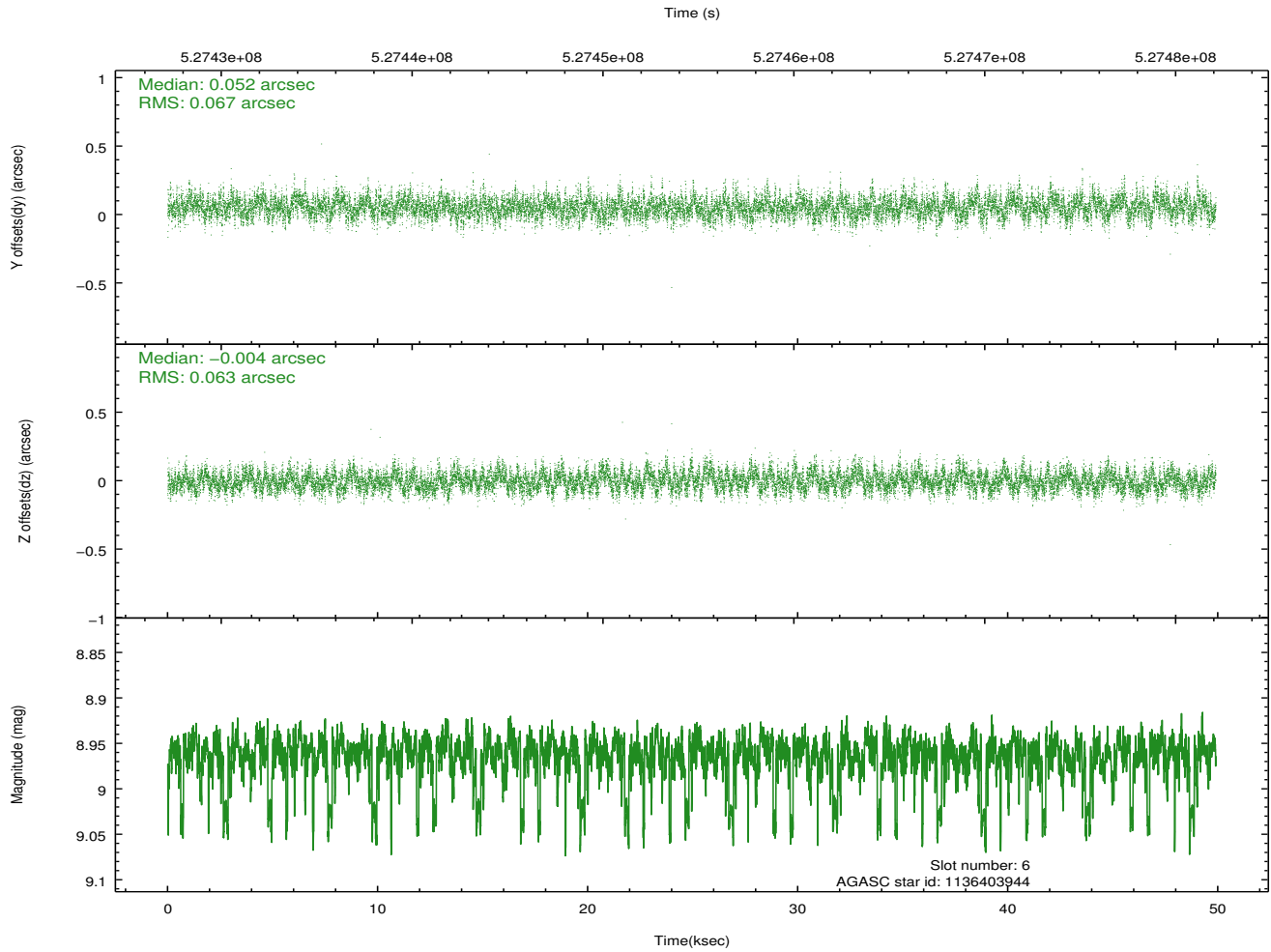
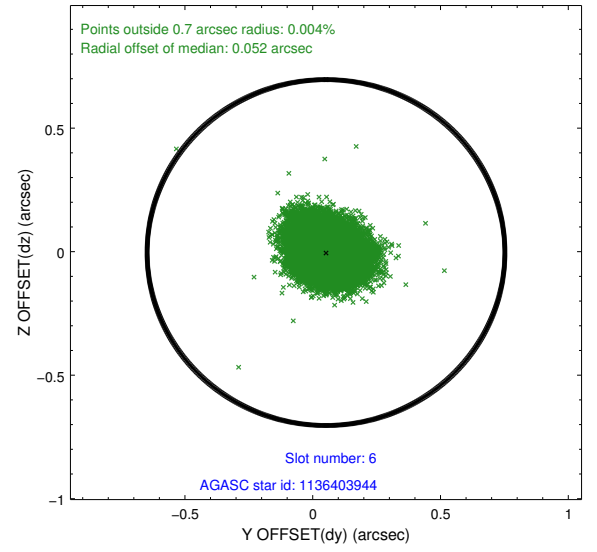
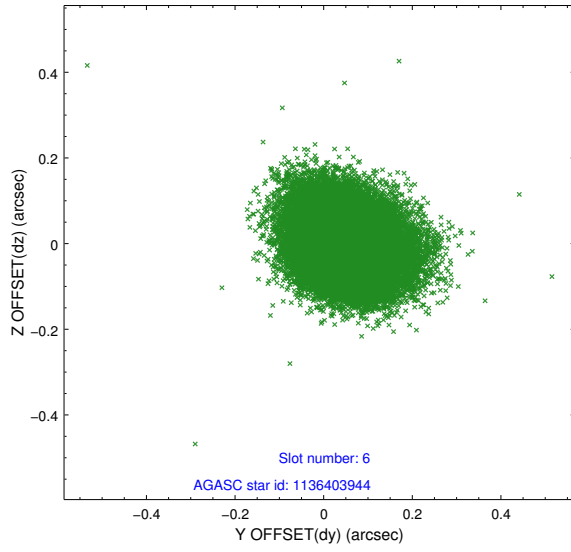




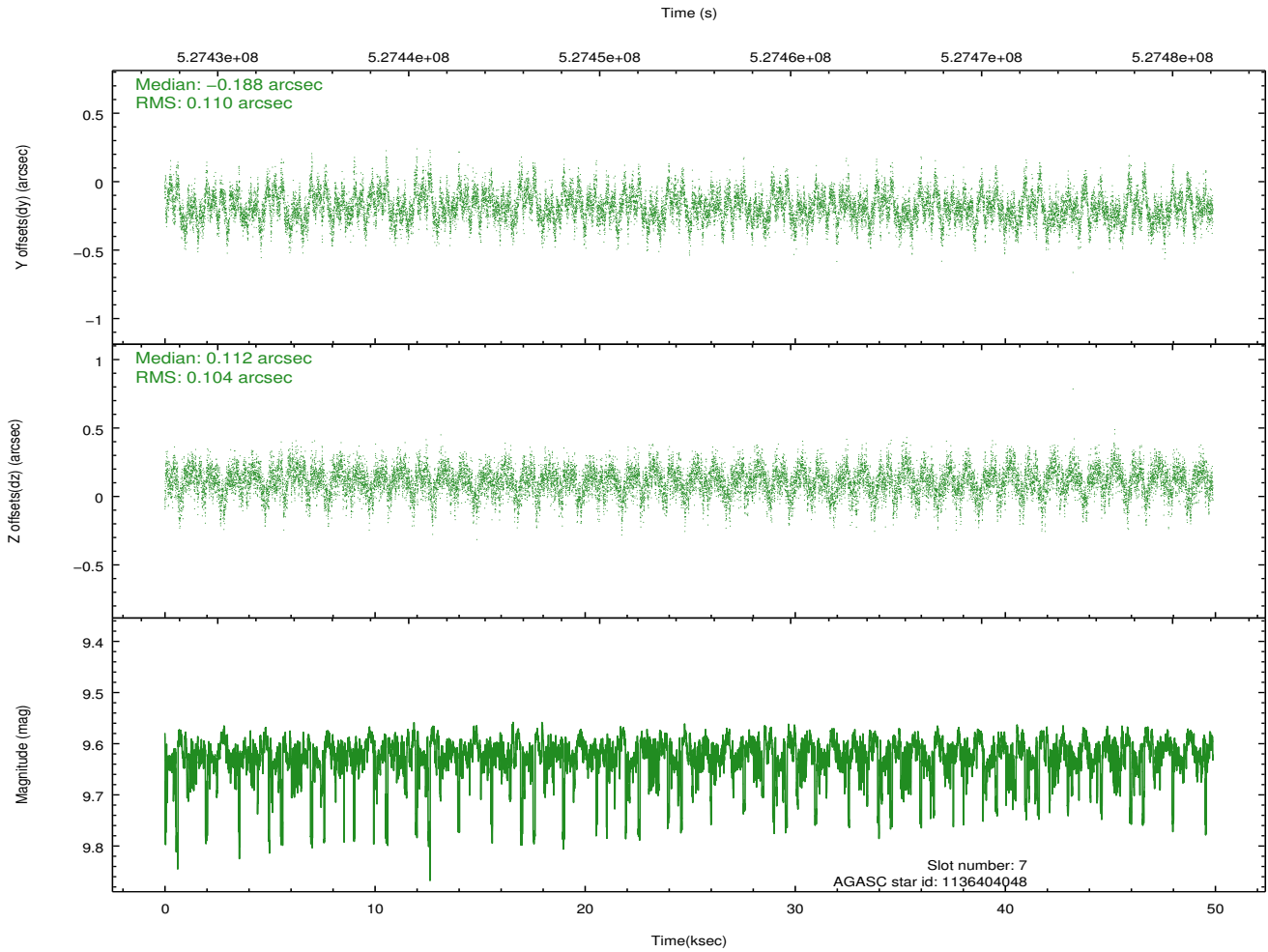
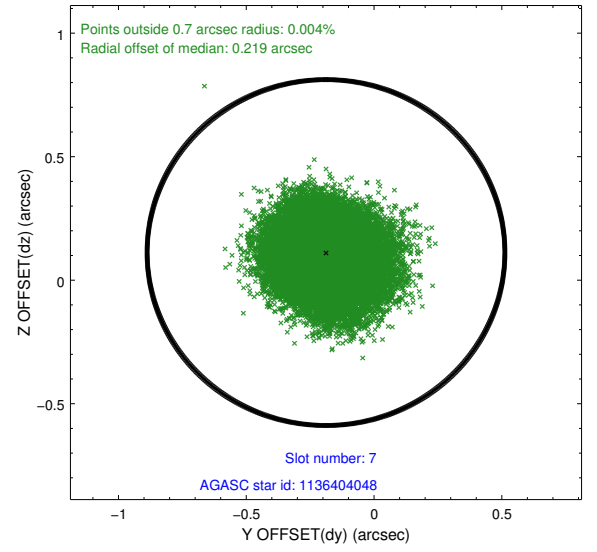
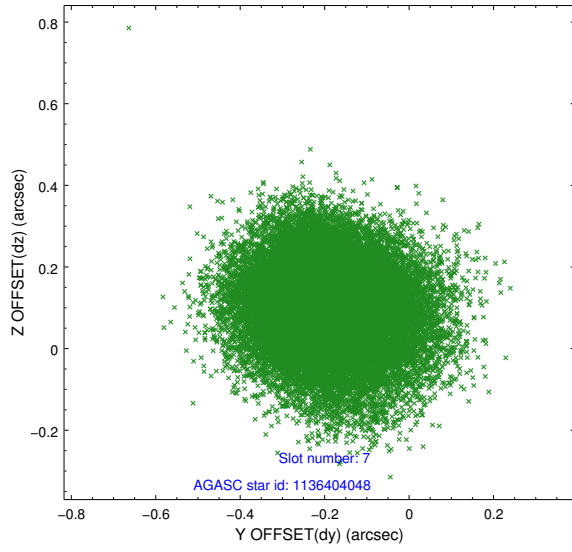
### 2.4.3 Slot 5



## 2.4.4 Slot 6

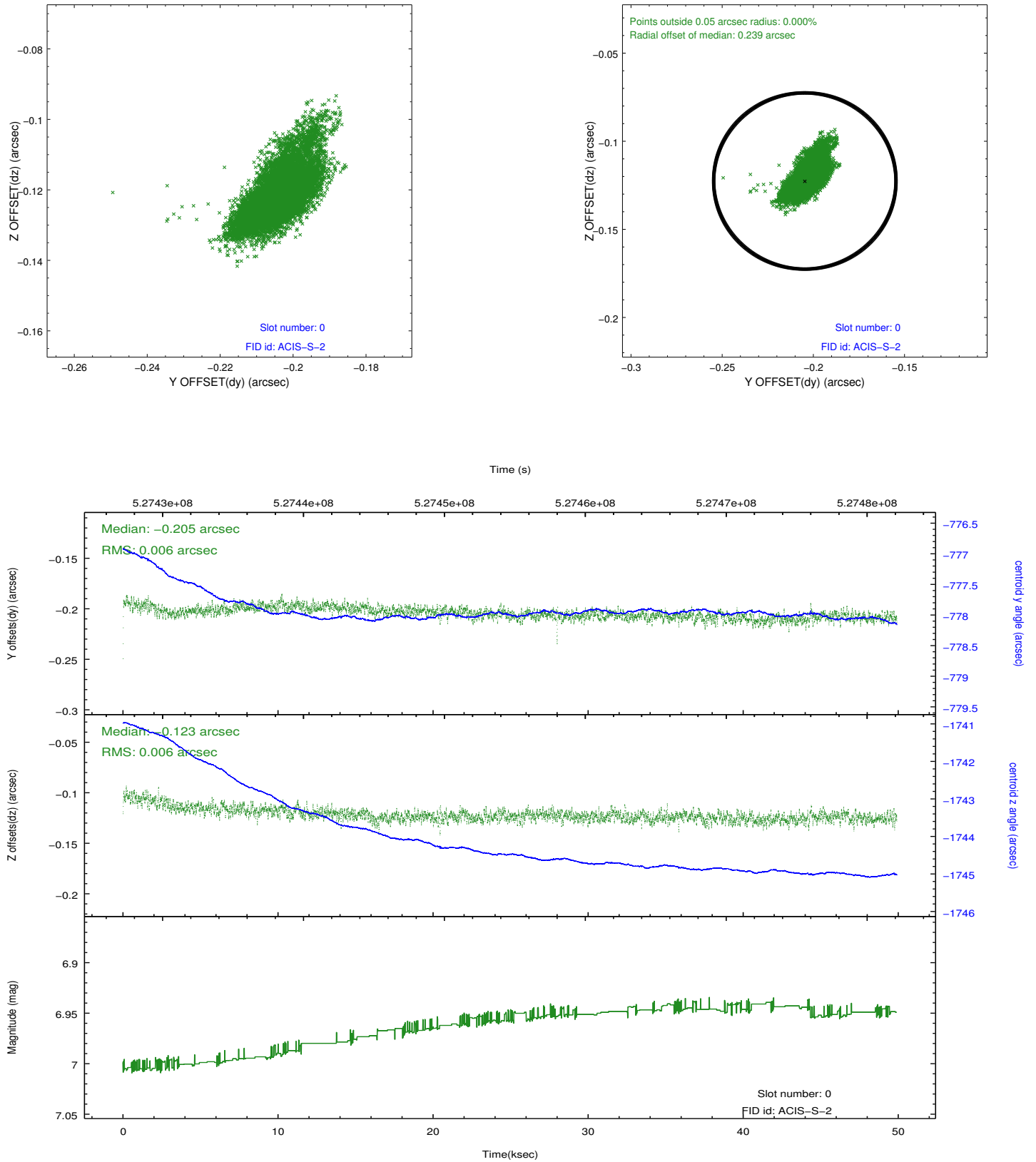


## 2.4.5 Slot 7

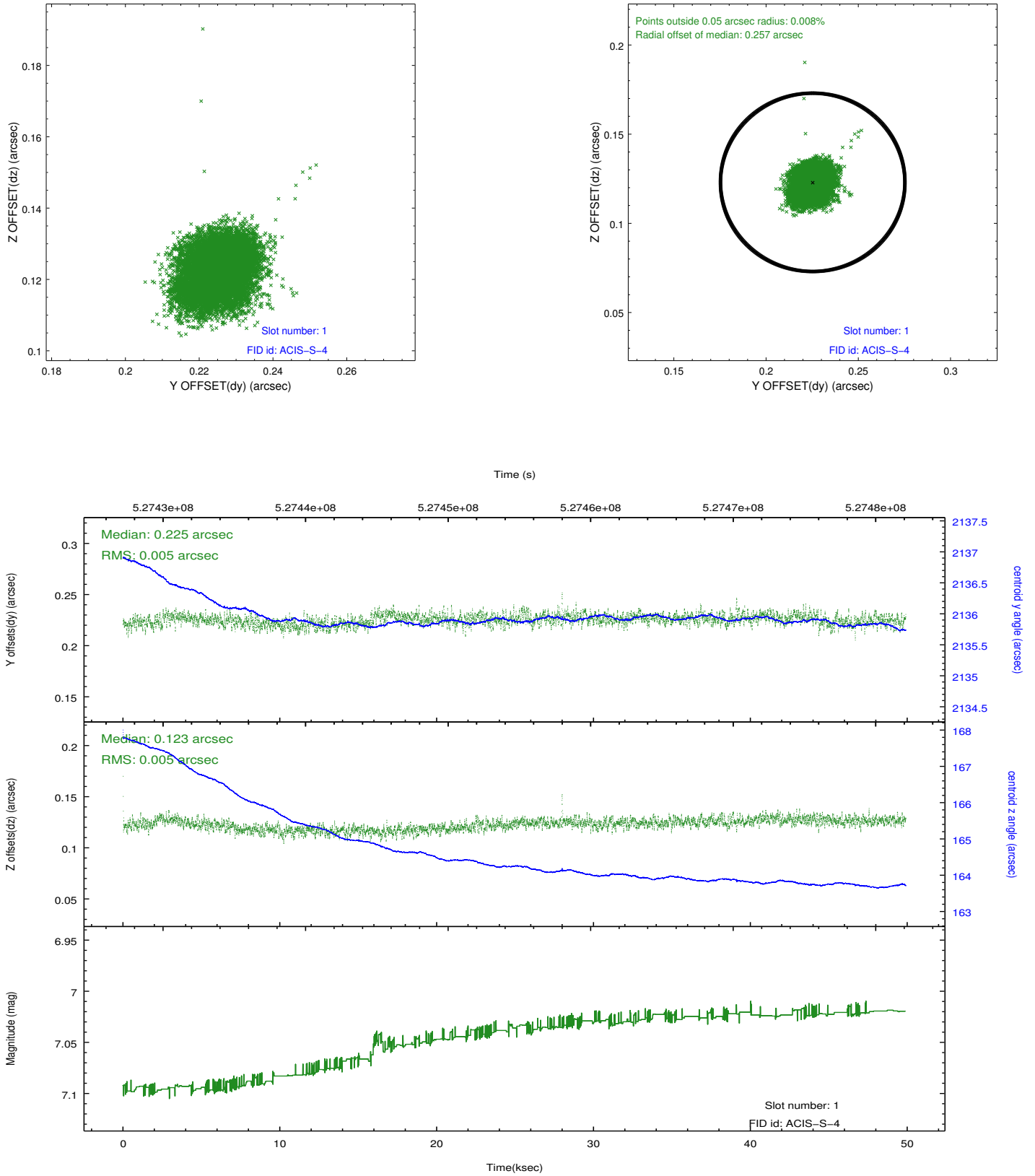


## 2.5 FID Slots

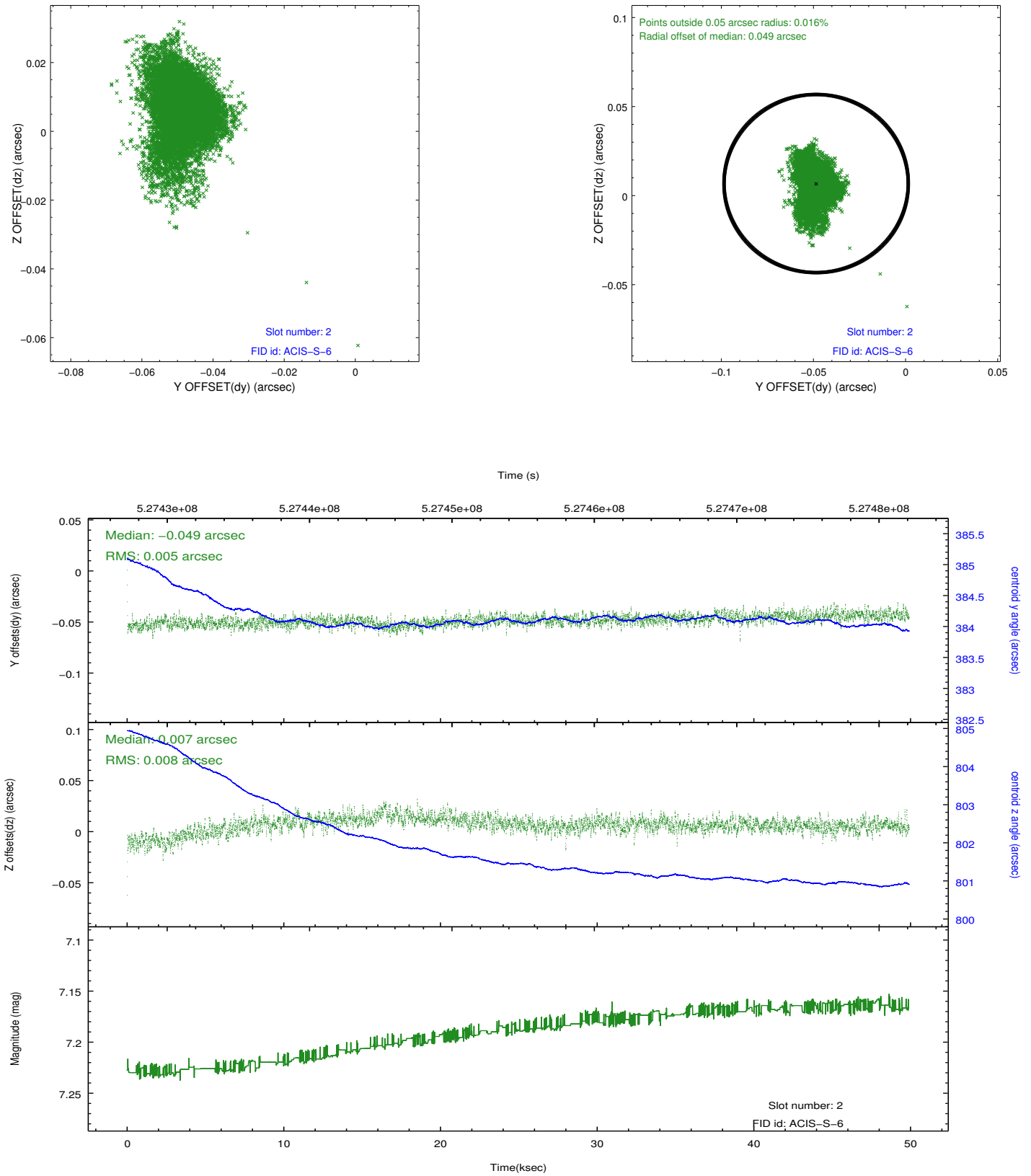
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.871630888999

### A.2 Comments