

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3056 - L2 Version 3  
Chandra X-Ray Center

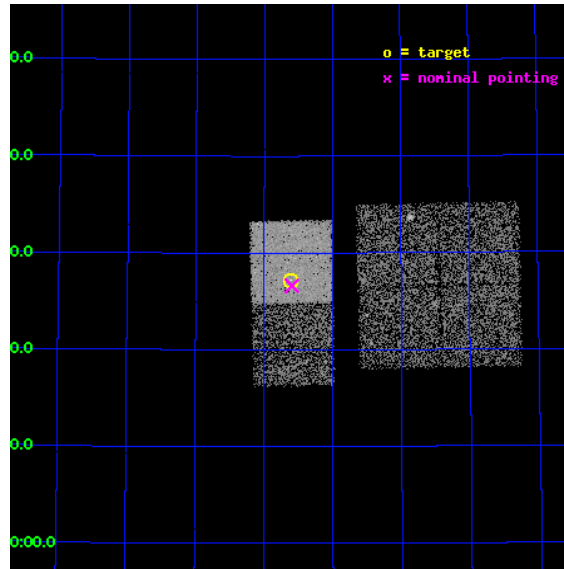
L2 Processing Date : Oct 14 2012

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# 1 Front

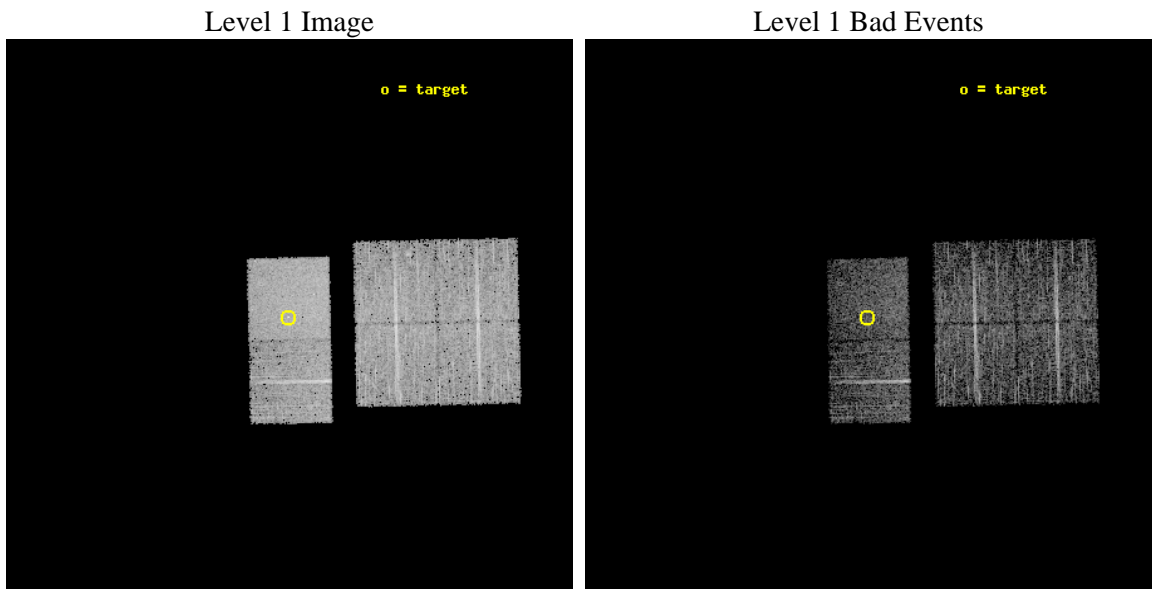
seq_num	700495	Sequence number
obs_id	3056	Observation id
title	FRUSTRATED GPS QUASARS	Proposal title
observer	Dr. Willem De Vries	Principal investigator
object	Q1815+614	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	273.902917	Observer's specified target RA [deg]
dec_targ	61.453194	Observer's specified target Dec [deg]
ra_nom	273.89897567842	Nominal RA [deg]
dec_nom	61.443623655196	Nominal Dec [deg]
roll_nom	268.76918369903	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4959.9999815226	Sum of GTIs [s]
livetime	4897.1934752031	Livetime [s]
ontime0	4959.9999815226	Sum of GTIs [s]
ontime1	4959.9999815226	Sum of GTIs [s]
ontime2	4959.9999815226	Sum of GTIs [s]
ontime3	4959.9999815226	Sum of GTIs [s]
ontime6	4959.9999815226	Sum of GTIs [s]
ontime7	4959.9999815226	Sum of GTIs [s]
l2events	33066	Number of level 2 events



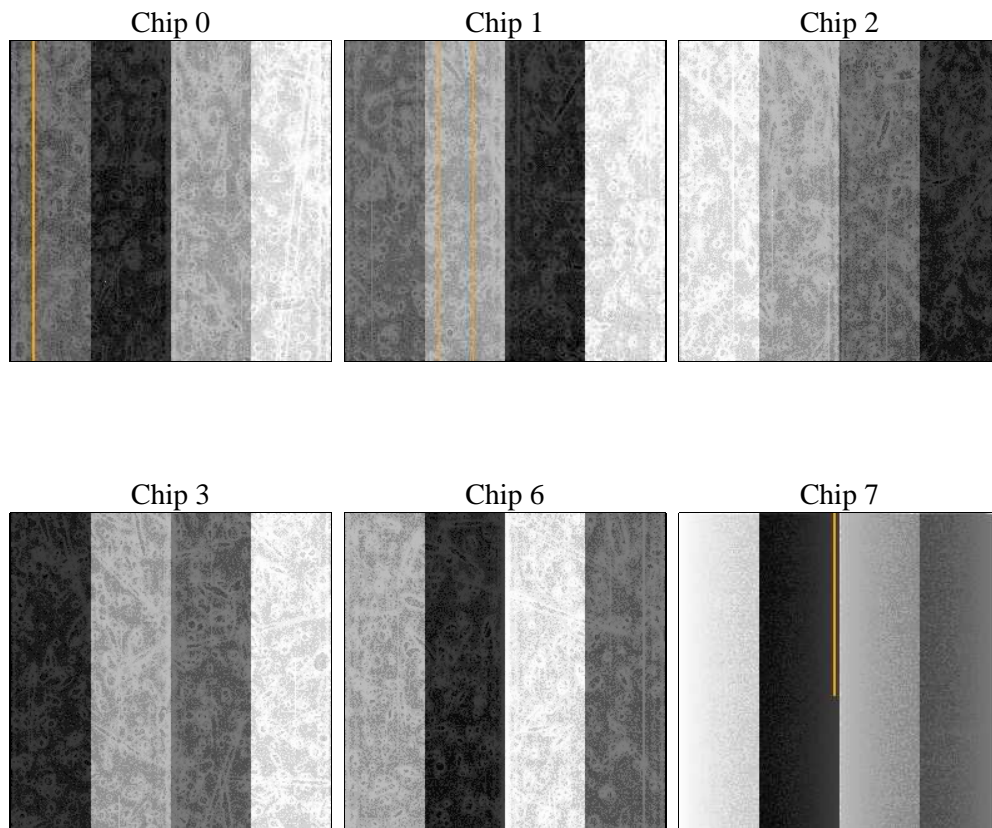
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4959.9999815226	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4959.9999815226	Sum of GTIs [s]
date	2012-10-14T19:24:06	Date and time of file creation	ontime1	4959.9999815226	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4959.9999815226	Sum of GTIs [s]
			ontime3	4959.9999815226	Sum of GTIs [s]
			ontime6	4959.9999815226	Sum of GTIs [s]
			ontime7	4959.9999815226	Sum of GTIs [s]
			l1events	194962	Number of level 1 events

### 2.1.4 Events

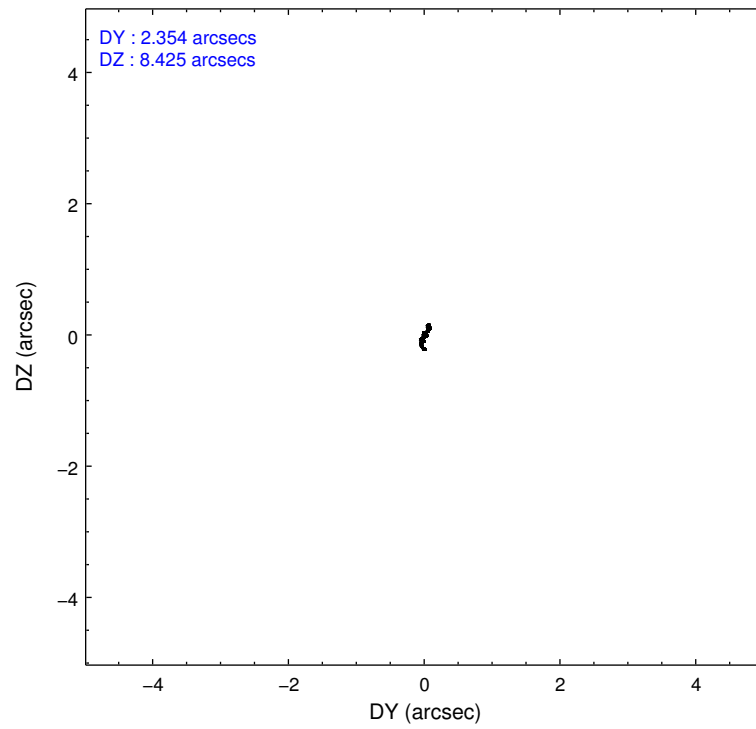
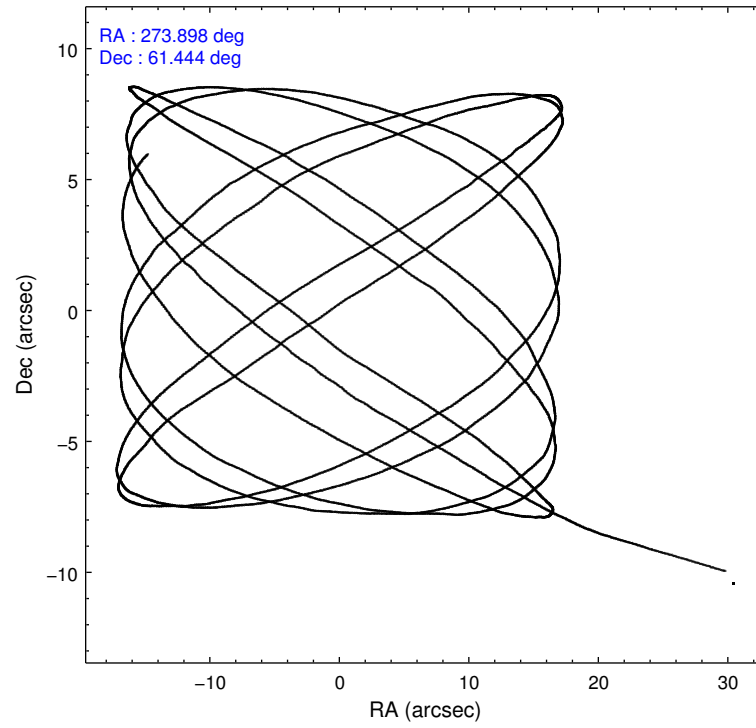
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30371	29269	32485	30720	30573	41544	grade 0 events	1641	1473	1674	1699	1527	1687
rejected events	26525	25558	28789	26986	26874	24178		5%	5%	5%	5%	4%	4%
rejected %	87%	87%	88%	87%	87%	58%	grade 1 events	17	13	22	18	19	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	783	730	713	708	755	3306
								2%	2%	2%	2%	2%	7%
							grade 3 events	401	389	359	348	364	1632
								1%	1%	1%	1%	1%	3%
							grade 4 events	353	417	339	367	373	1593
								1%	1%	1%	1%	1%	3%
							grade 5 events	1210	1252	1210	1321	1373	3948
								3%	4%	3%	4%	4%	9%
							grade 6 events	669	707	616	614	680	9161
								2%	2%	1%	1%	2%	22%
							grade 7 events	25297	24288	27552	25645	25482	20173
								83%	82%	84%	83%	83%	48%

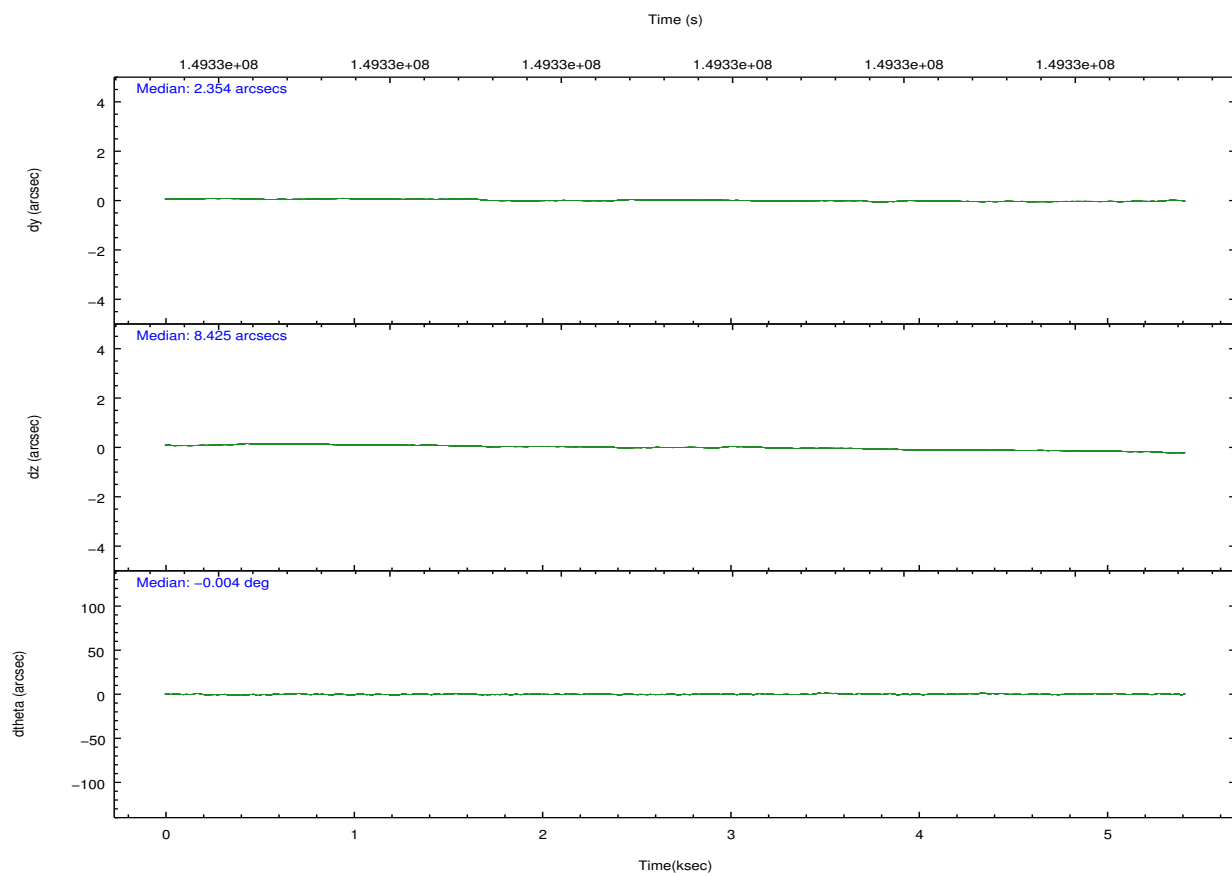
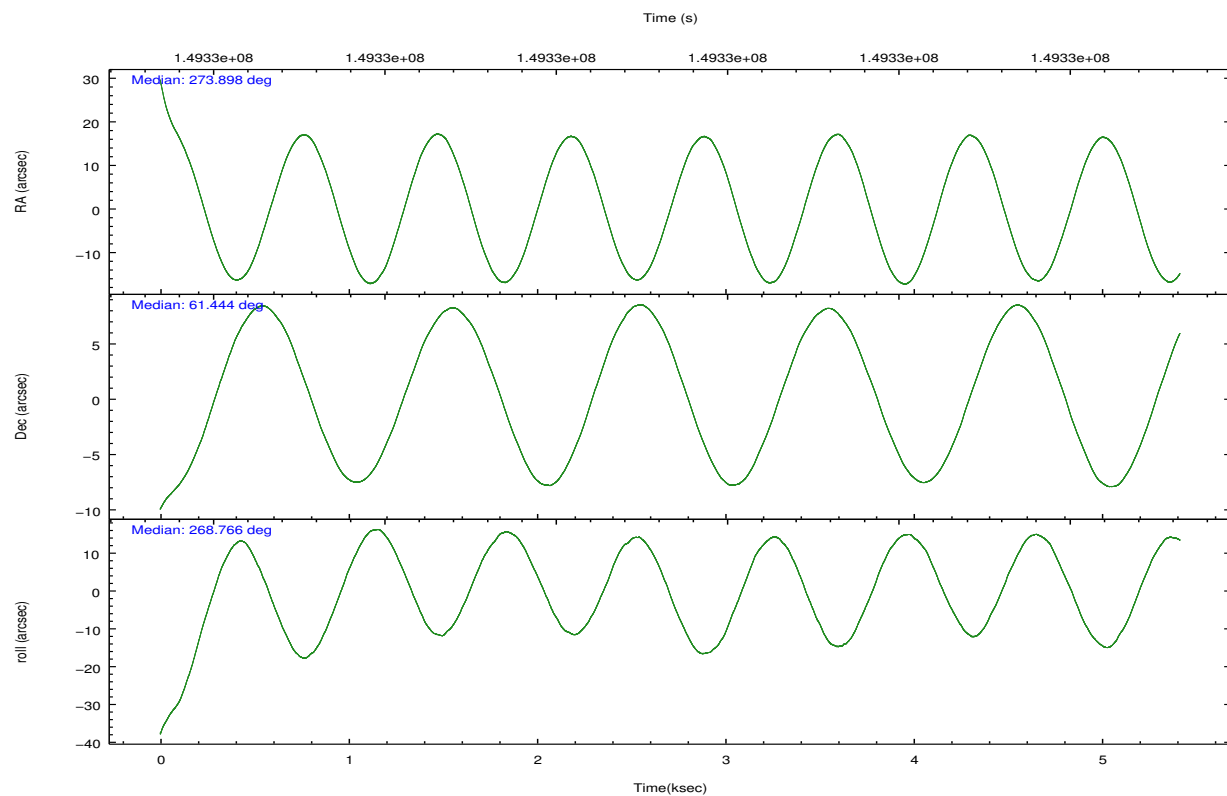


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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
[deg] Pointing RA	273.870831	273.8989756784159	Subarray requested	NONE	NONE
[deg] Pointing Dec	61.467398	61.4436236551963	Alternating exposures requested	N	N
[deg] Pointing Roll	268.637273	268.7691836990315	[s] Primary exposure time	0.000000	3.2
[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)	149327371.184000	149326293.02866			
Observation start date	2002-09-25T07:48:27	2002-09-25T07:31:33			
[s] Observation end time (MET)	149332371.184000	149333227.15395			
Observation end date	2002-09-25T09:11:47	2002-09-25T09:27:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



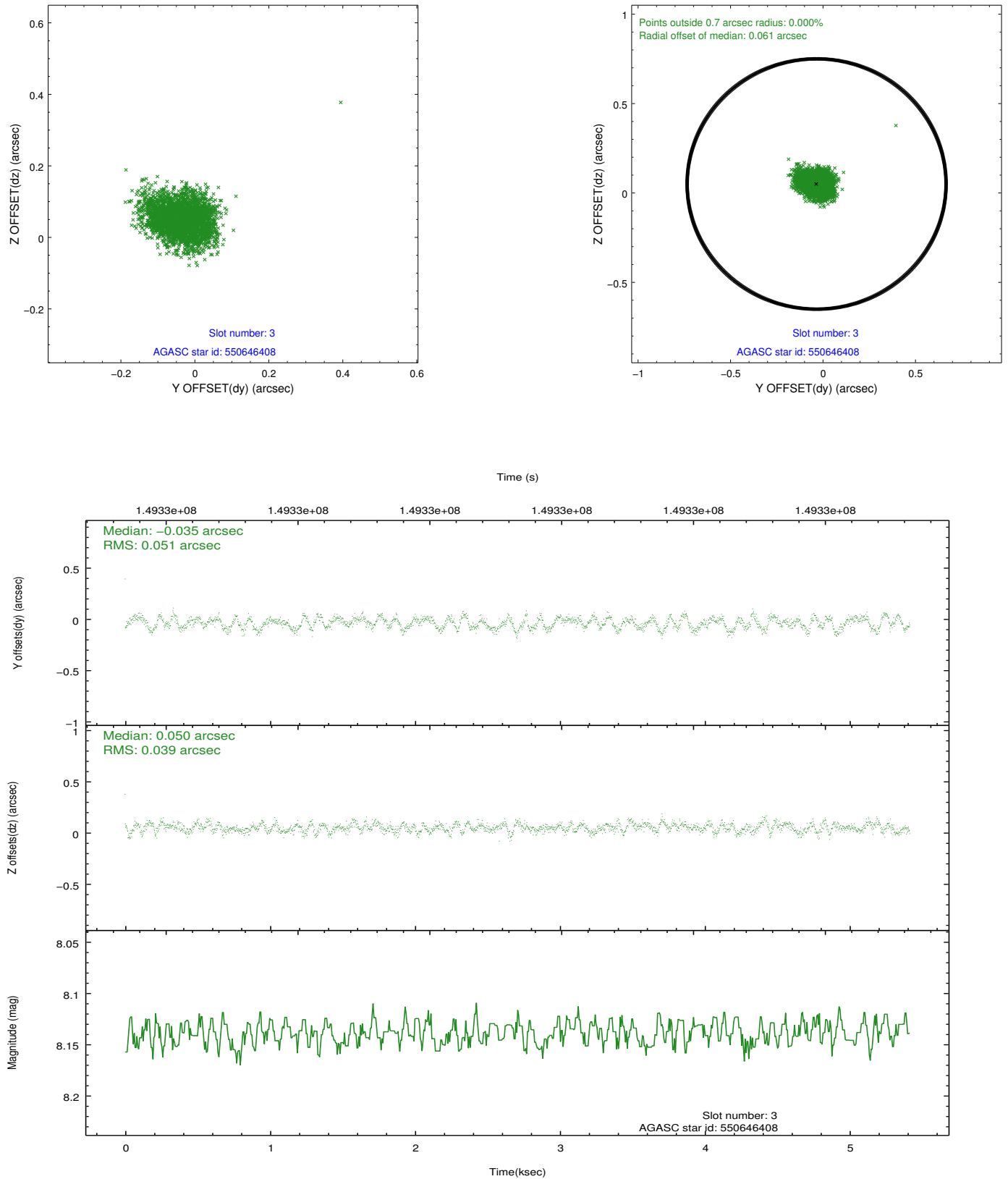


### Slot Statistics

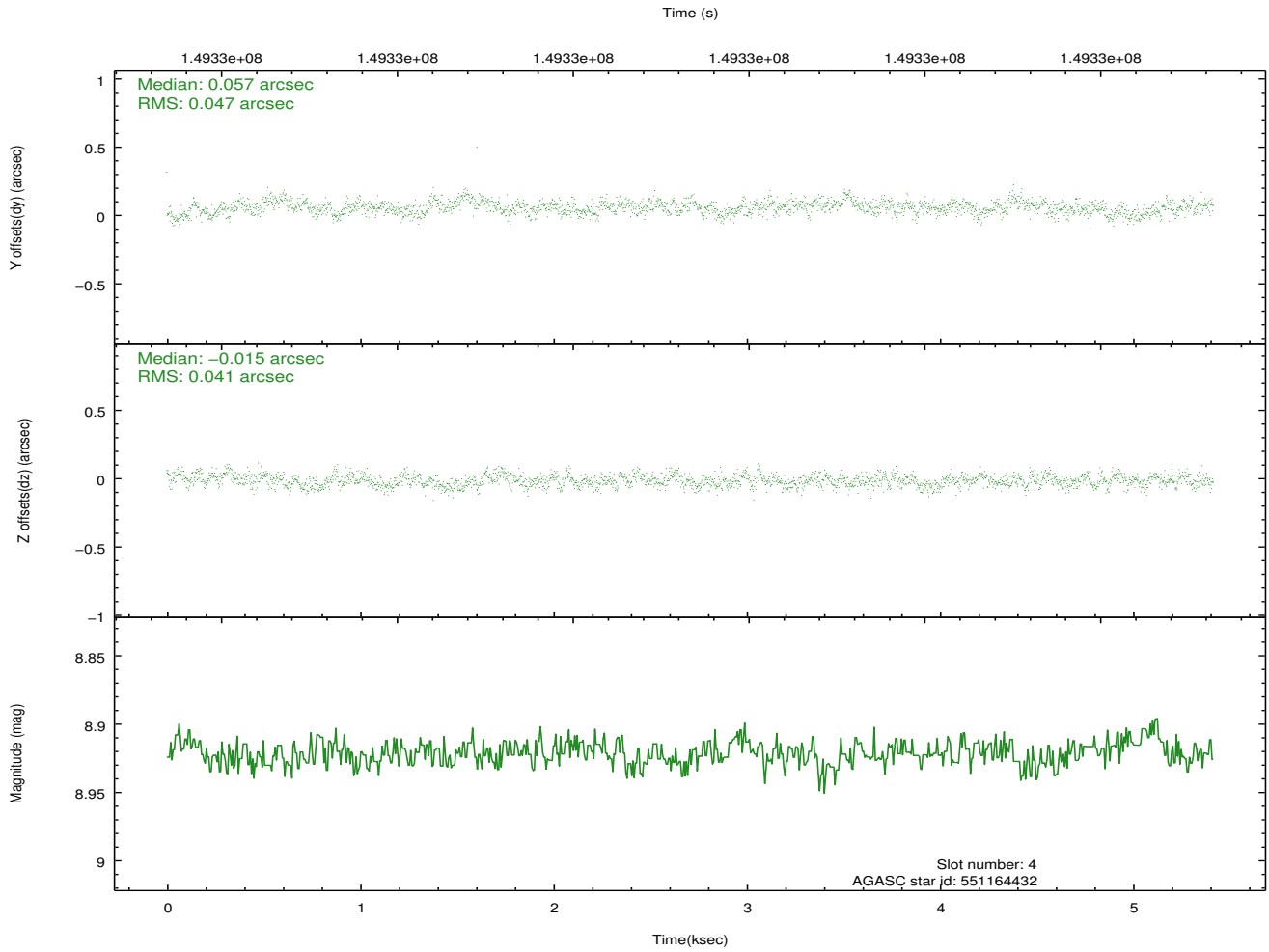
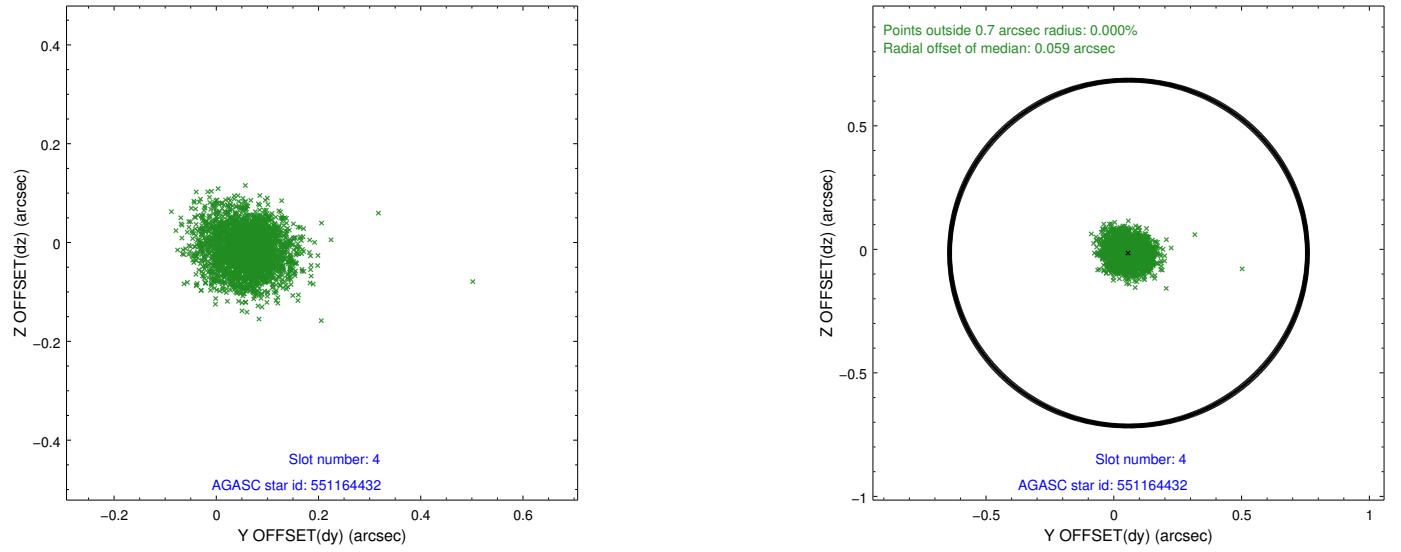
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1321	-0.013	0.003	0.007	0.011	0.000000	0.000000	-755.02	-1729.61
1	FID	ACIS-S-4	7.20	1321	-0.039	0.005	0.006	0.012	0.000000	0.000000	2157.75	177.70
2	FID	ACIS-S-5	7.24	1321	0.021	0.001	0.007	0.011	0.000000	0.000000	-1806.38	172.67
3	GUIDE	550646408	8.14	2640	-0.035	0.050	0.068	0.107	272.691132	61.184693	1048.19	-2021.66
4	GUIDE	551164432	8.92	2642	0.057	-0.015	0.066	0.106	273.687705	61.988399	-1867.25	-354.31
5	GUIDE	551159616	9.01	2642	0.002	0.051	0.085	0.140	272.723579	61.962135	-1751.68	-1983.01
6	GUIDE	552349808	9.07	2643	-0.072	-0.026	0.069	0.113	275.034401	60.904813	1957.77	2084.14
7	GUIDE	552348432	9.17	2642	0.052	-0.055	0.070	0.114	274.721615	61.641682	-670.23	1440.64

## 2.4 Star Slots

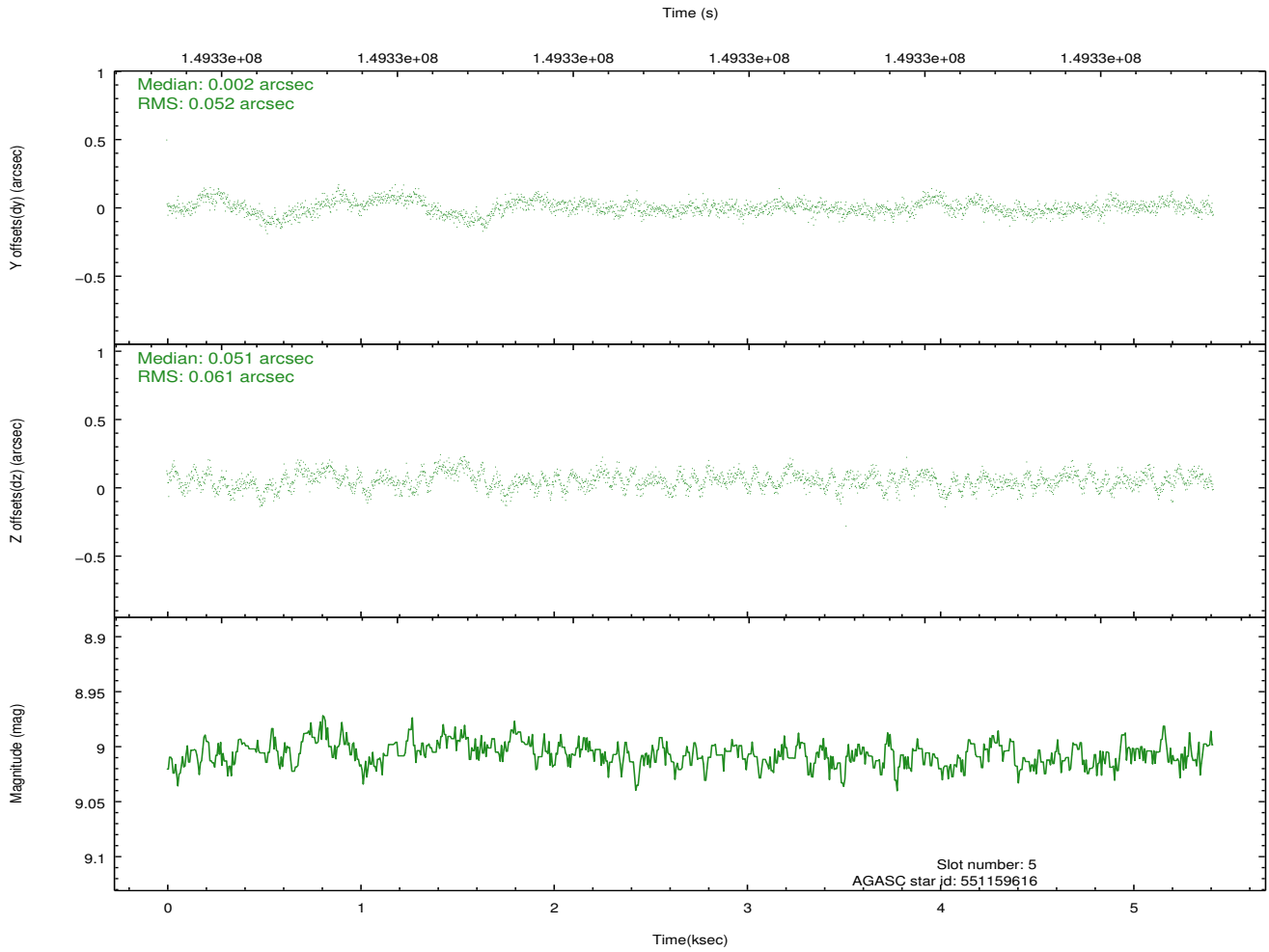
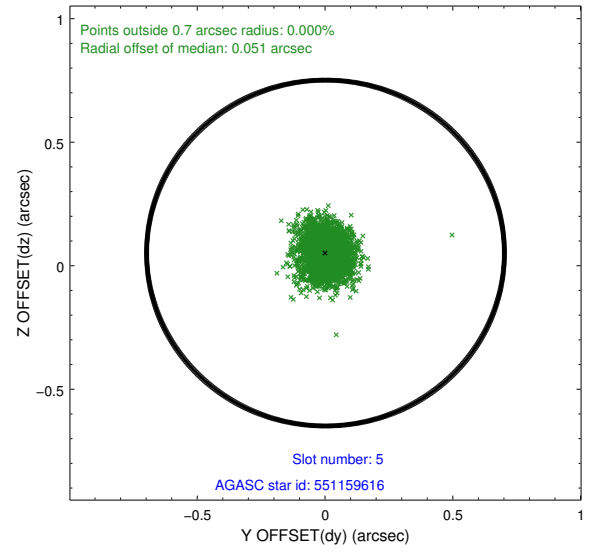
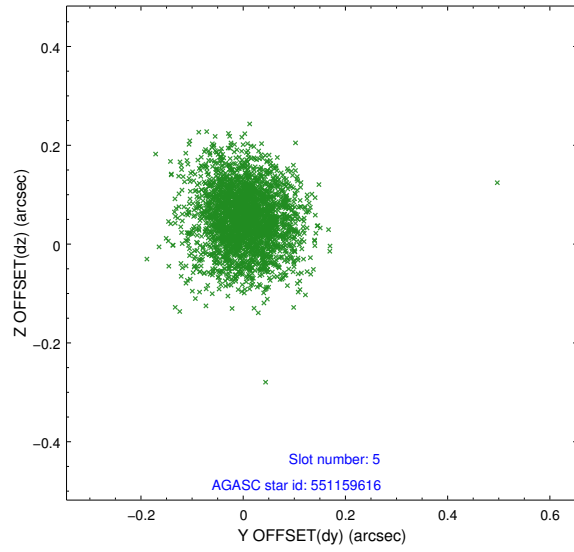
### 2.4.1 Slot 3



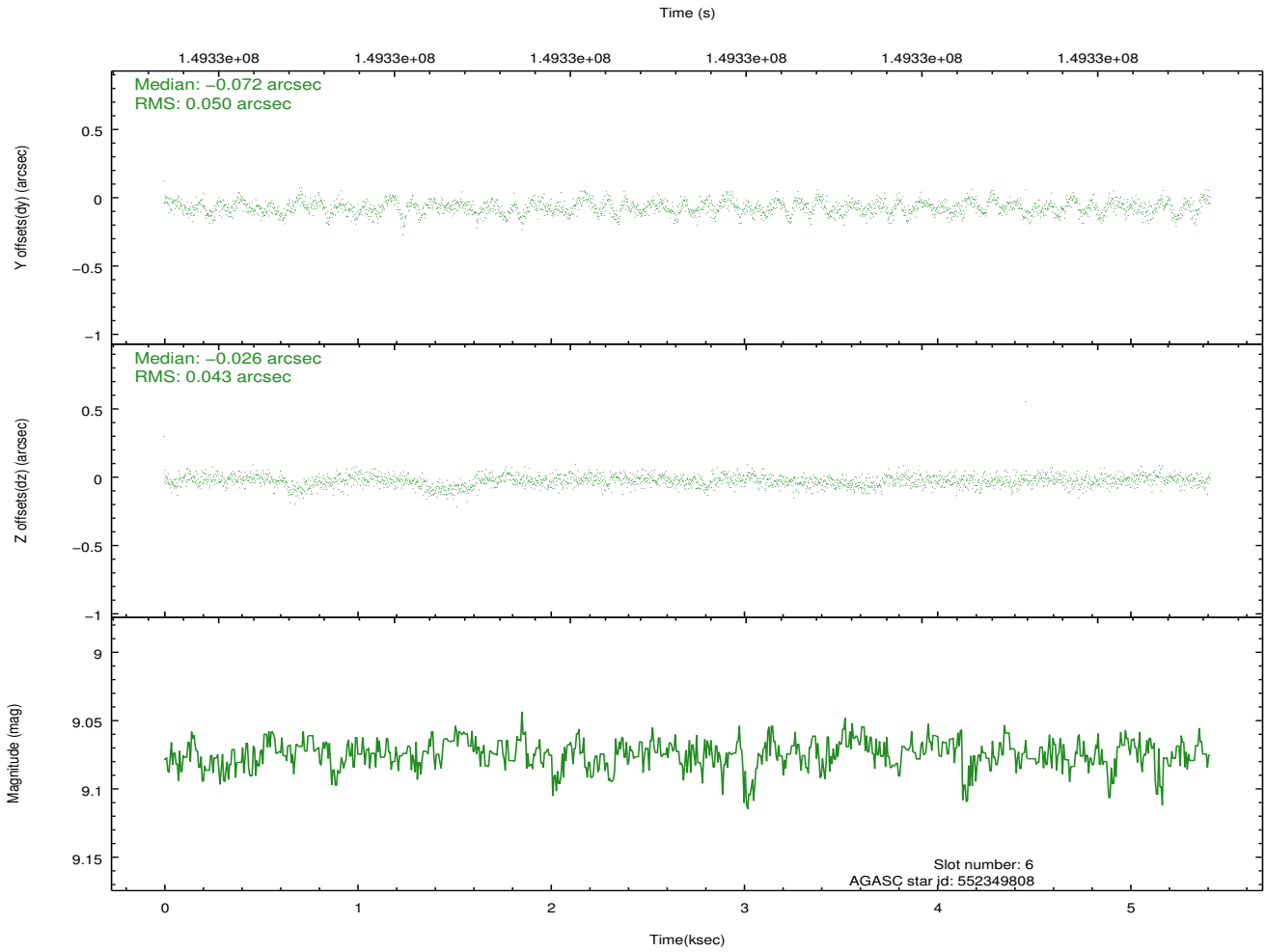
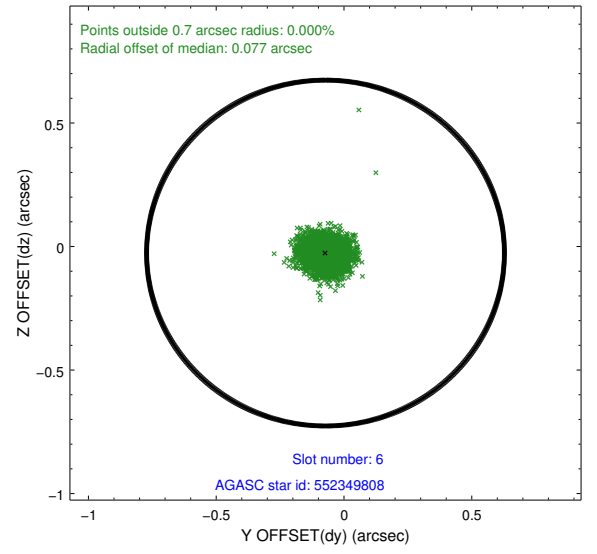
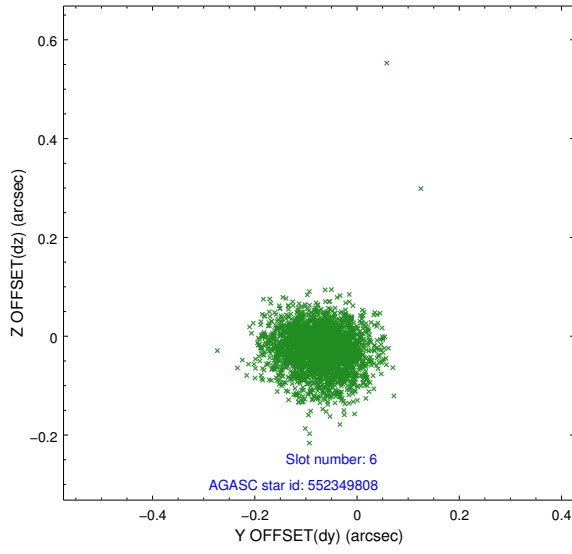
## 2.4.2 Slot 4



### 2.4.3 Slot 5

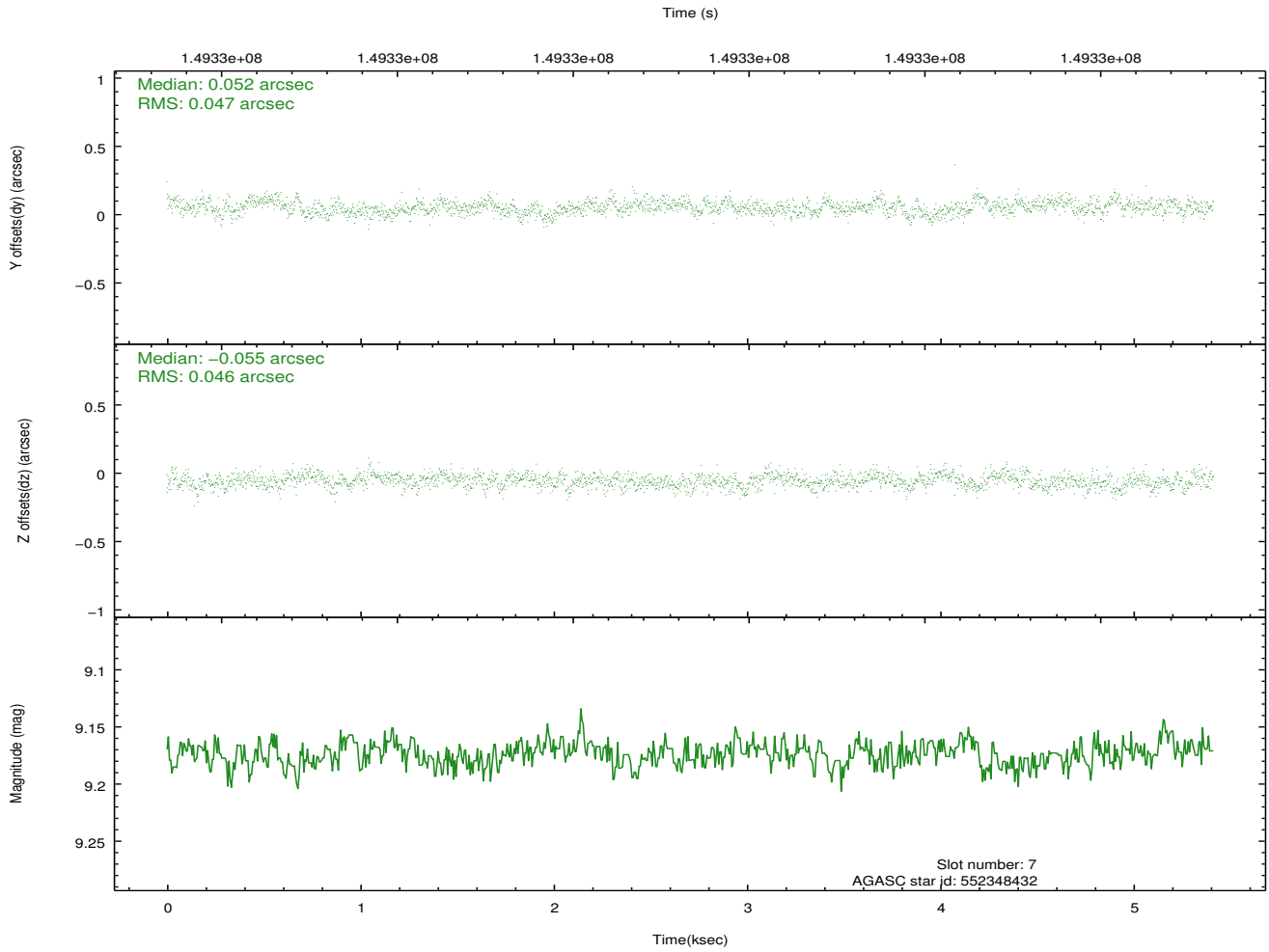
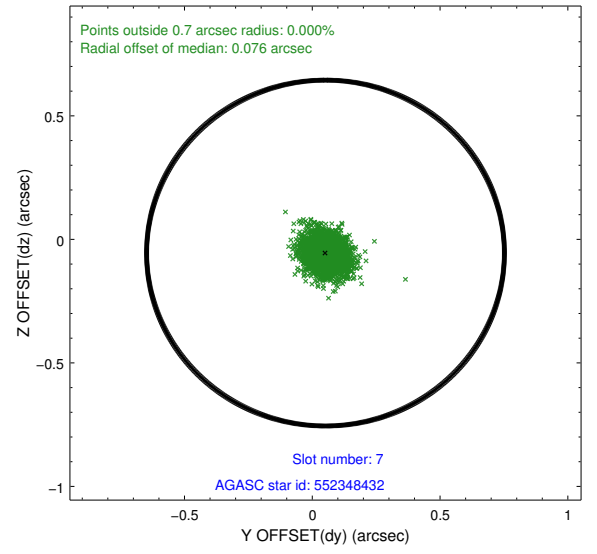
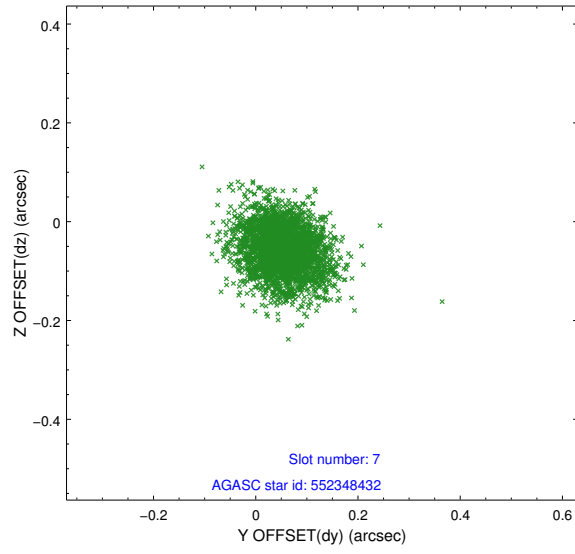


## 2.4.4 Slot 6



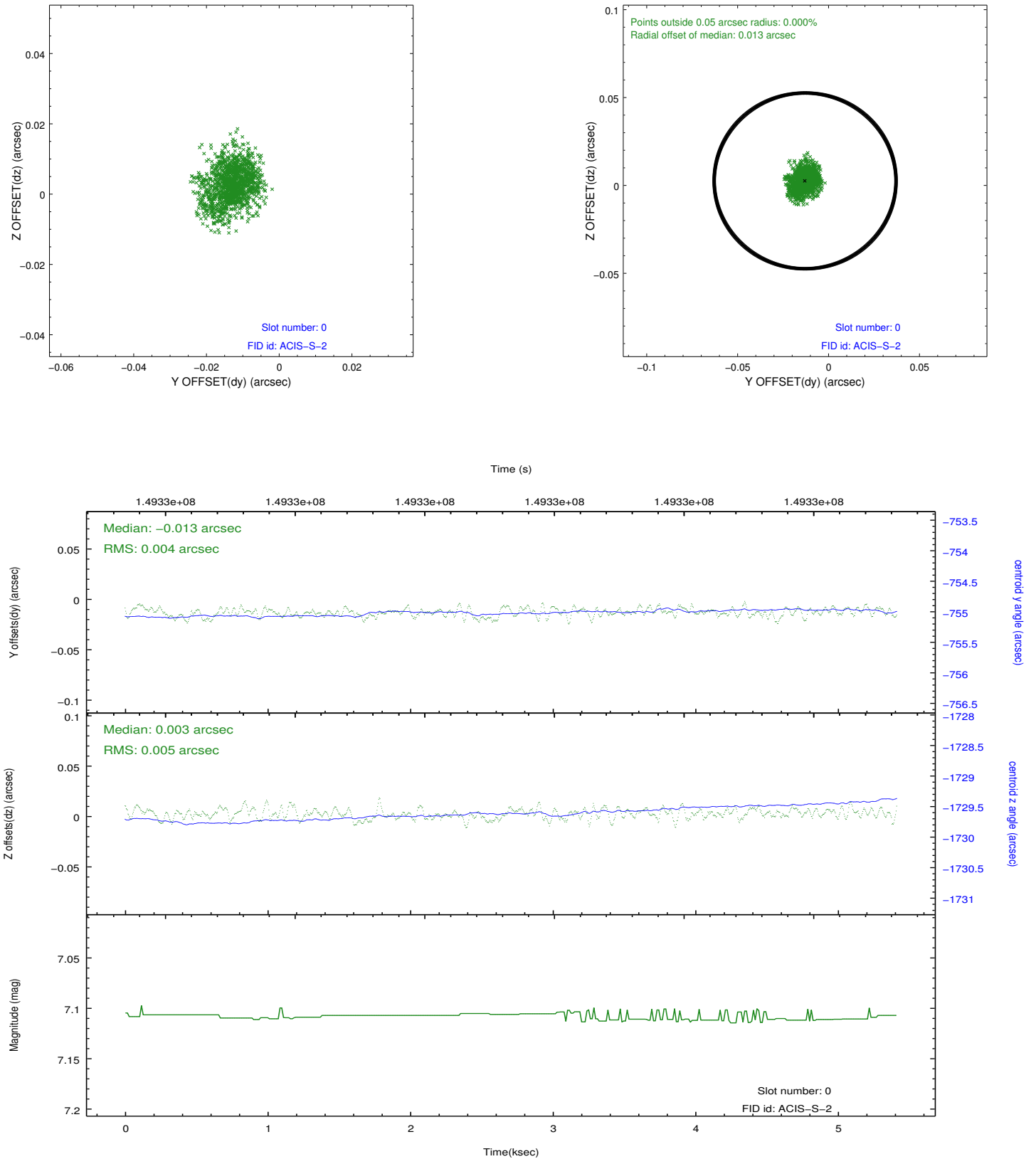


## 2.4.5 Slot 7

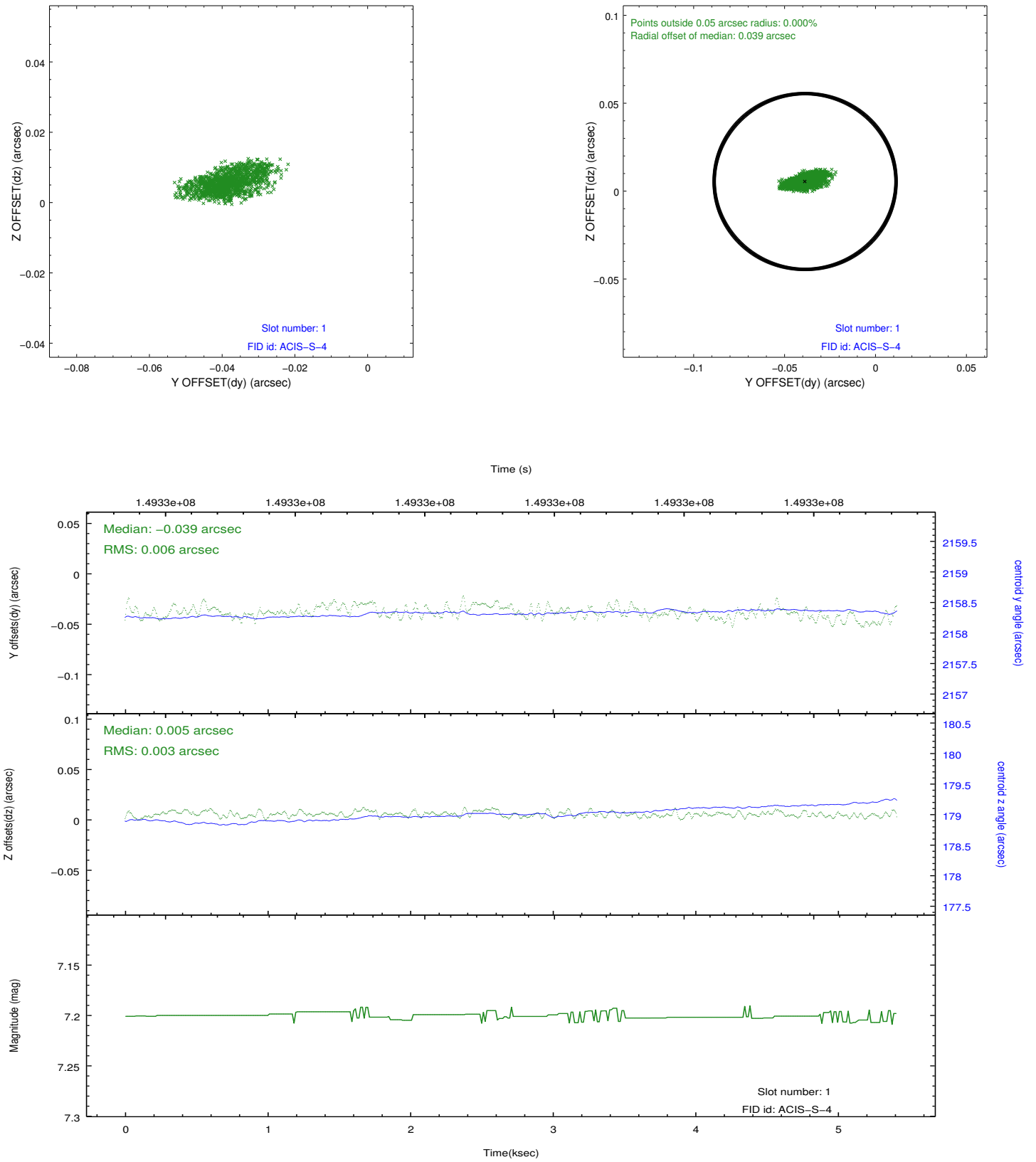


## 2.5 FID Slots

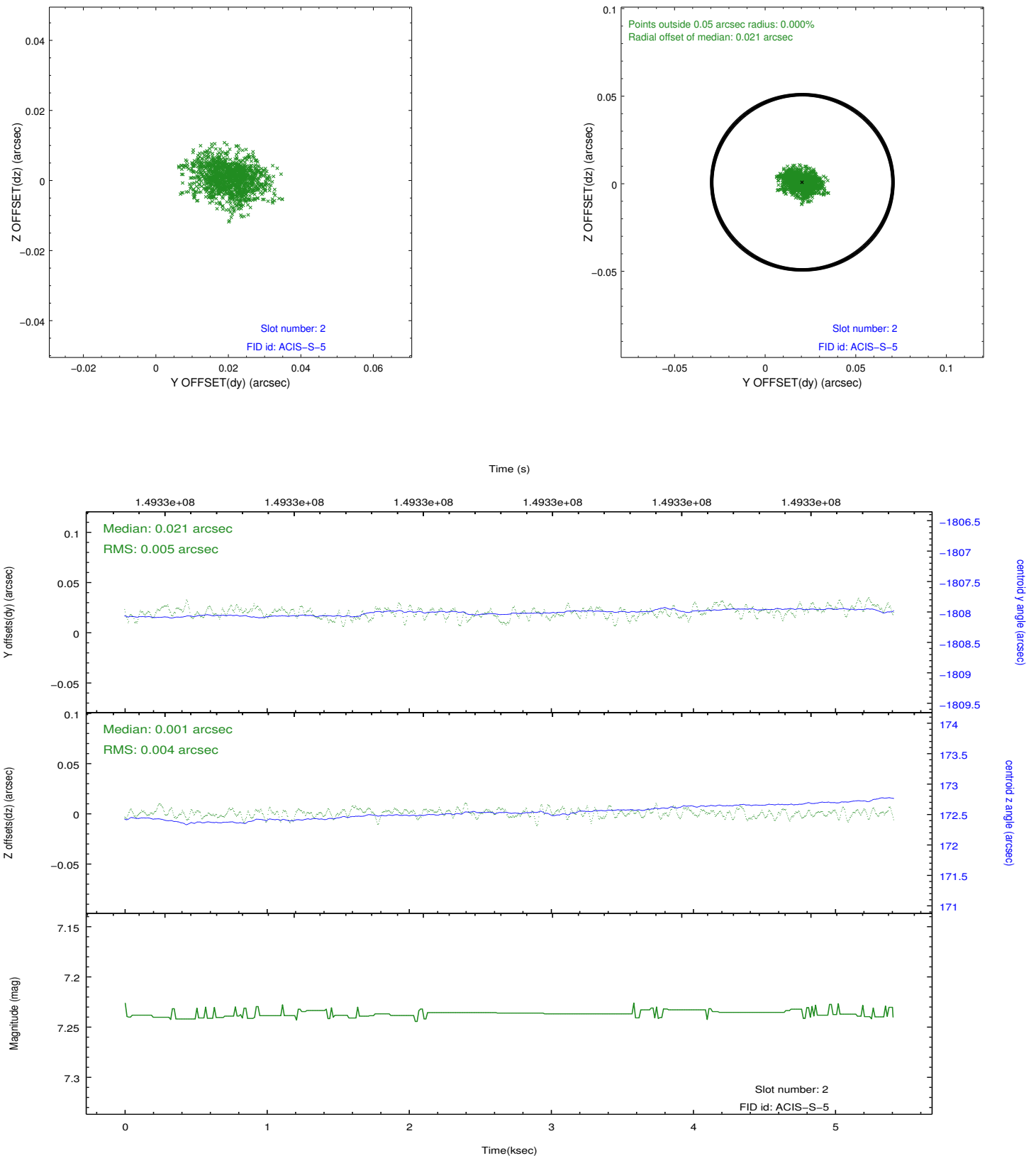
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.963

### A.2 Comments