

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3078 - L2 Version 3  
Chandra X-Ray Center

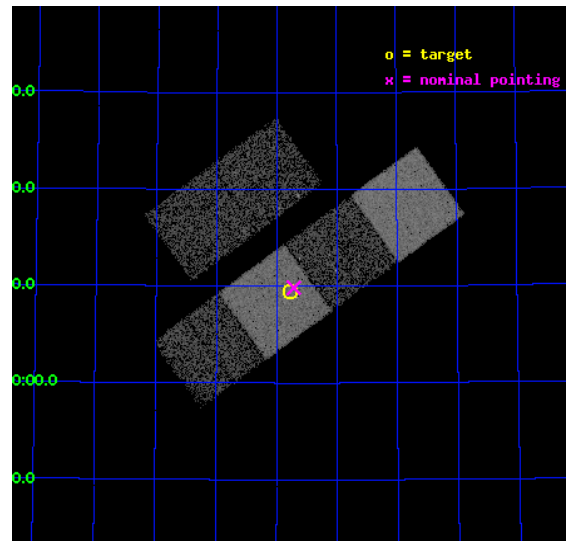
L2 Processing Date : Oct 8 2012

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# 1 Front

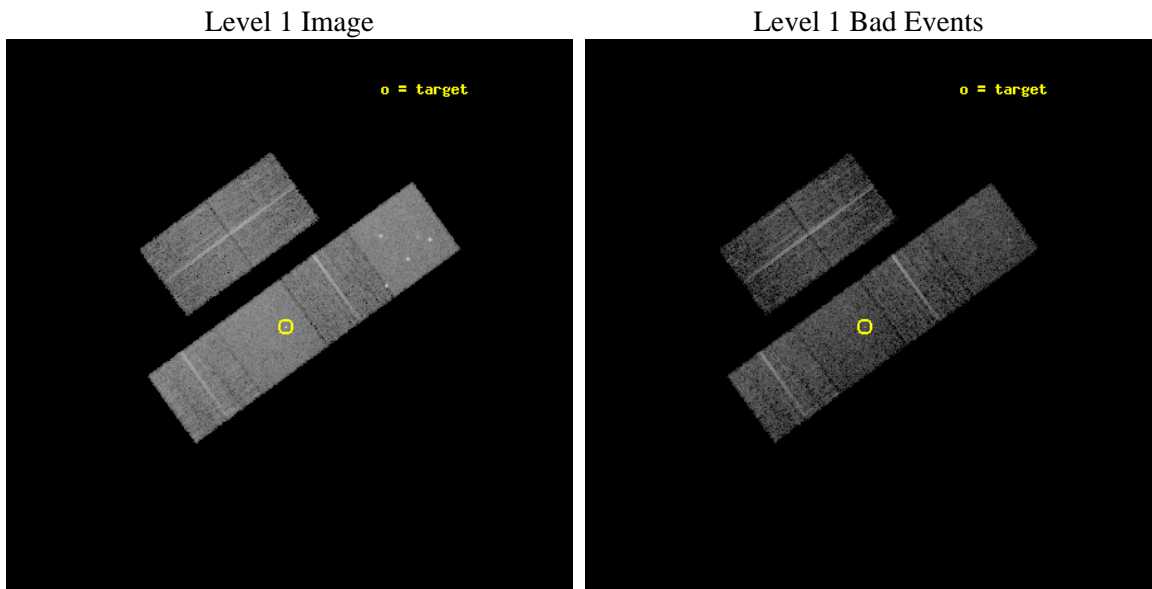
seq_num	700517	Sequence number
obs_id	3078	Observation id
title	X-RAY WEAK BROAD-LINE QUASARS: ABSORPTION OR INTRINSIC X_RAY WEAKNESS ?	Proposal title
observer	Dr Guido Risaliti	Principal investigator
object	HS 1824+6507	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	276.194583	Observer's specified target RA [deg]
dec_targ	65.157	Observer's specified target Dec [deg]
ra_nom	276.17848575857	Nominal RA [deg]
dec_nom	65.164010177353	Nominal Dec [deg]
roll_nom	144.00747534253	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6943.7540629804	Sum of GTIs [s]
livetime	6855.8280680082	Livetime [s]
ontime2	6943.7540430725	Sum of GTIs [s]
ontime3	6943.7540430725	Sum of GTIs [s]
ontime5	6943.7540629804	Sum of GTIs [s]
ontime6	6943.7540430725	Sum of GTIs [s]
ontime7	6943.7540629804	Sum of GTIs [s]
ontime8	6943.7540629804	Sum of GTIs [s]
l2events	66549	Number of level 2 events



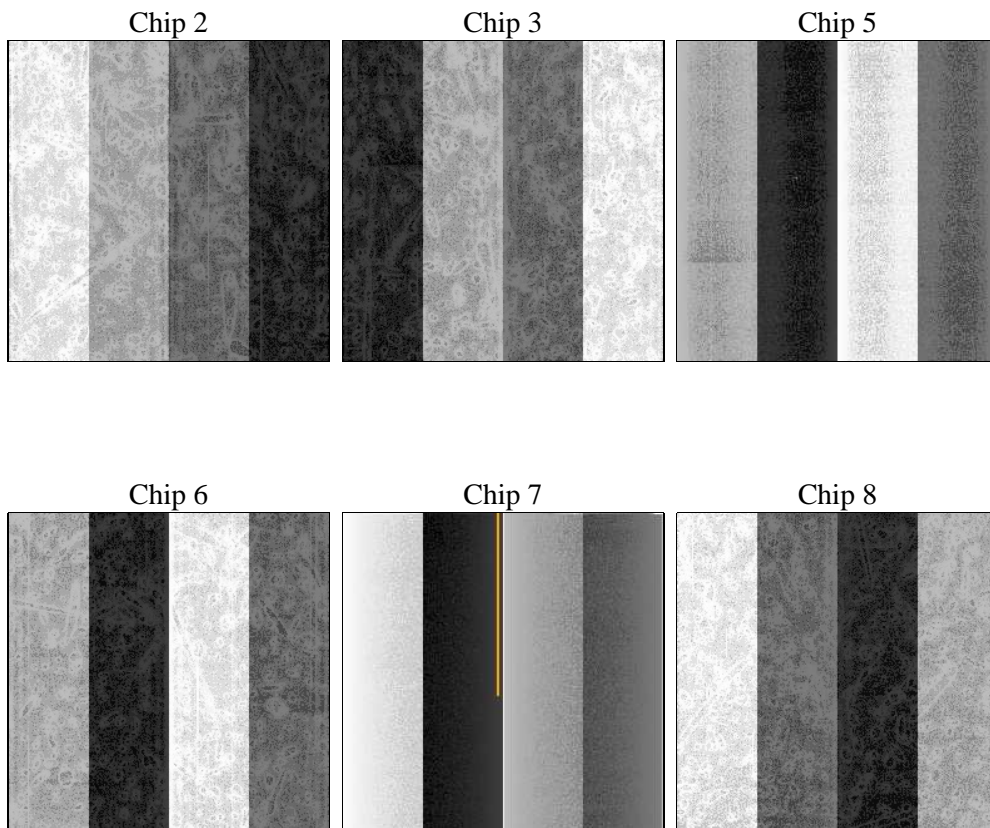
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6943.7540629804	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	6943.7540430725	Sum of GTIs [s]
date	2012-10-08T05:42:01	Date and time of file creation	ontime3	6943.7540430725	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6943.7540629804	Sum of GTIs [s]
			ontime6	6943.7540430725	Sum of GTIs [s]
			ontime7	6943.7540629804	Sum of GTIs [s]
			ontime8	6943.7540629804	Sum of GTIs [s]
			l1events	291139	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	41065	39274	61327	41113	56443	51917	grade 0 events	2239	1967	3922	2171	2513	3249
rejected events	36032	34521	32620	35949	32380	41863		5%	5%	6%	5%	4%	6%
rejected %	87%	87%	53%	87%	57%	80%	grade 1 events	13	18	96	15	93	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	1069	1006	8411	1034	4852	2249
								2%	2%	13%	2%	8%	4%
							grade 3 events	444	456	1139	493	2209	1052
								1%	1%	1%	1%	3%	2%
							grade 4 events	438	469	1092	450	2175	954
								1%	1%	1%	1%	3%	1%
							grade 5 events	1494	1728	4403	1788	5334	2380
								3%	4%	7%	4%	9%	4%
							grade 6 events	845	857	14148	1019	12323	2553
								2%	2%	23%	2%	21%	4%
							grade 7 events	34523	32773	28116	34143	26944	39462
								84%	83%	45%	83%	47%	76%

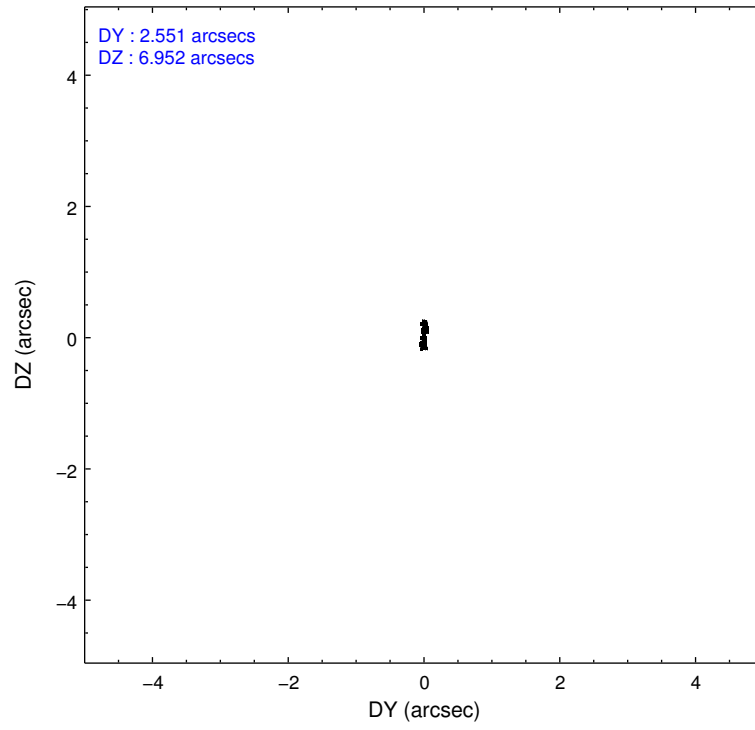
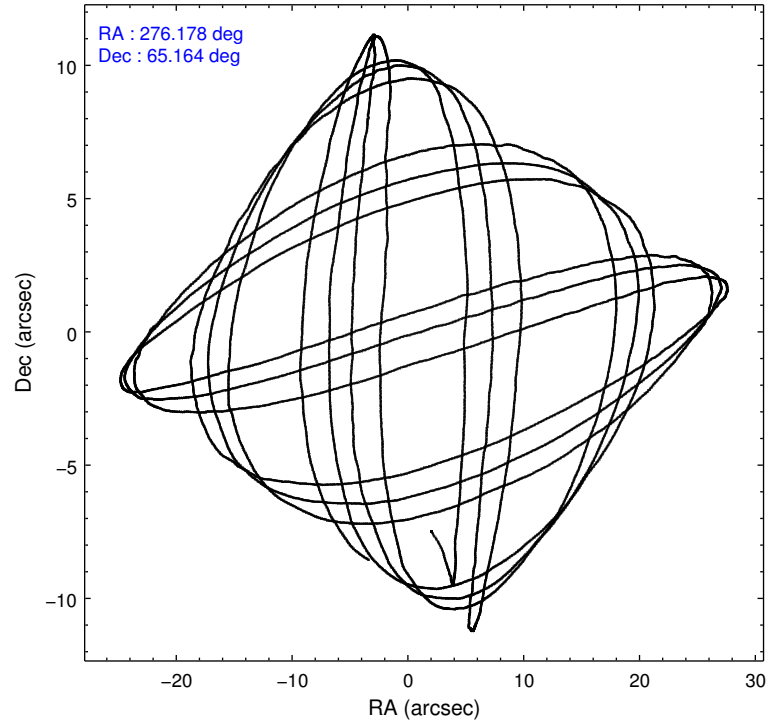


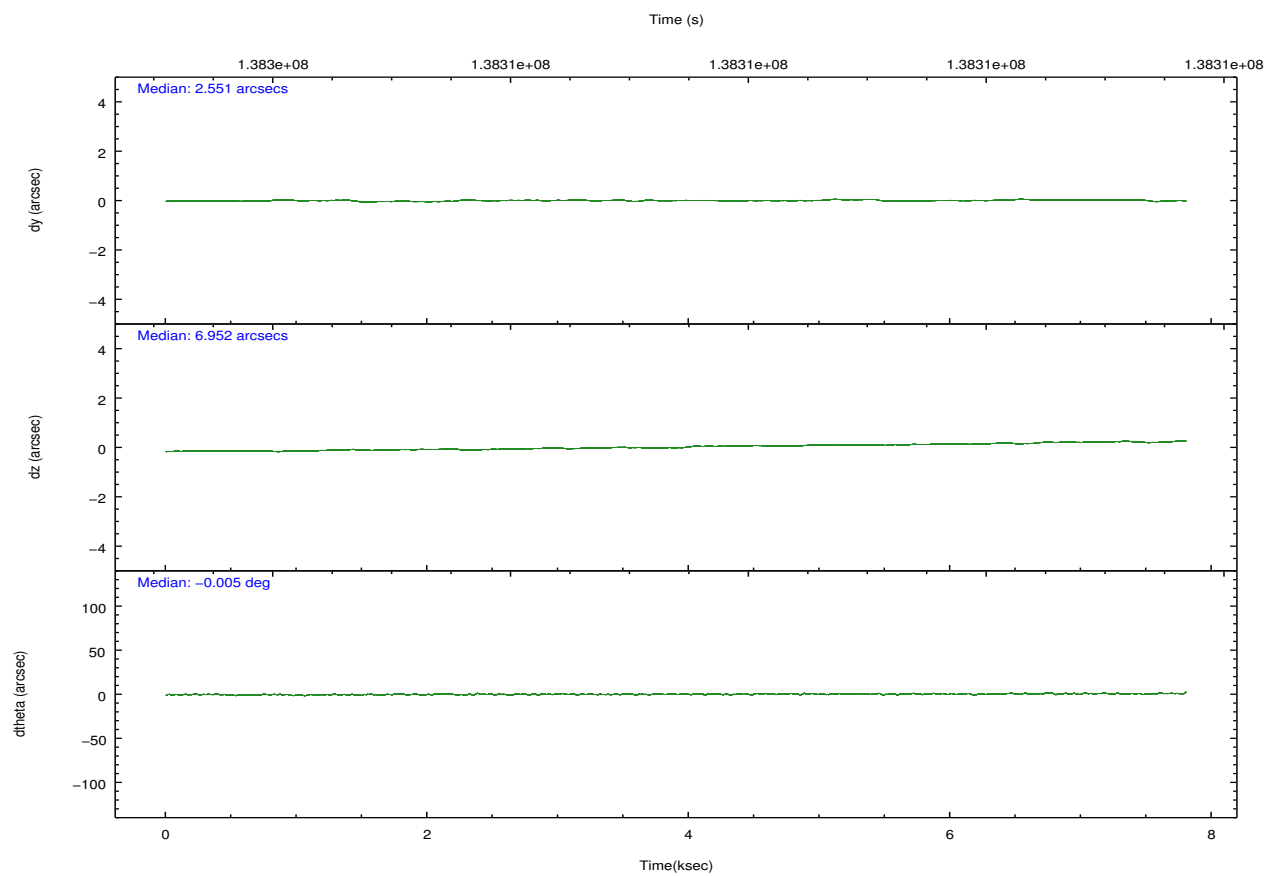
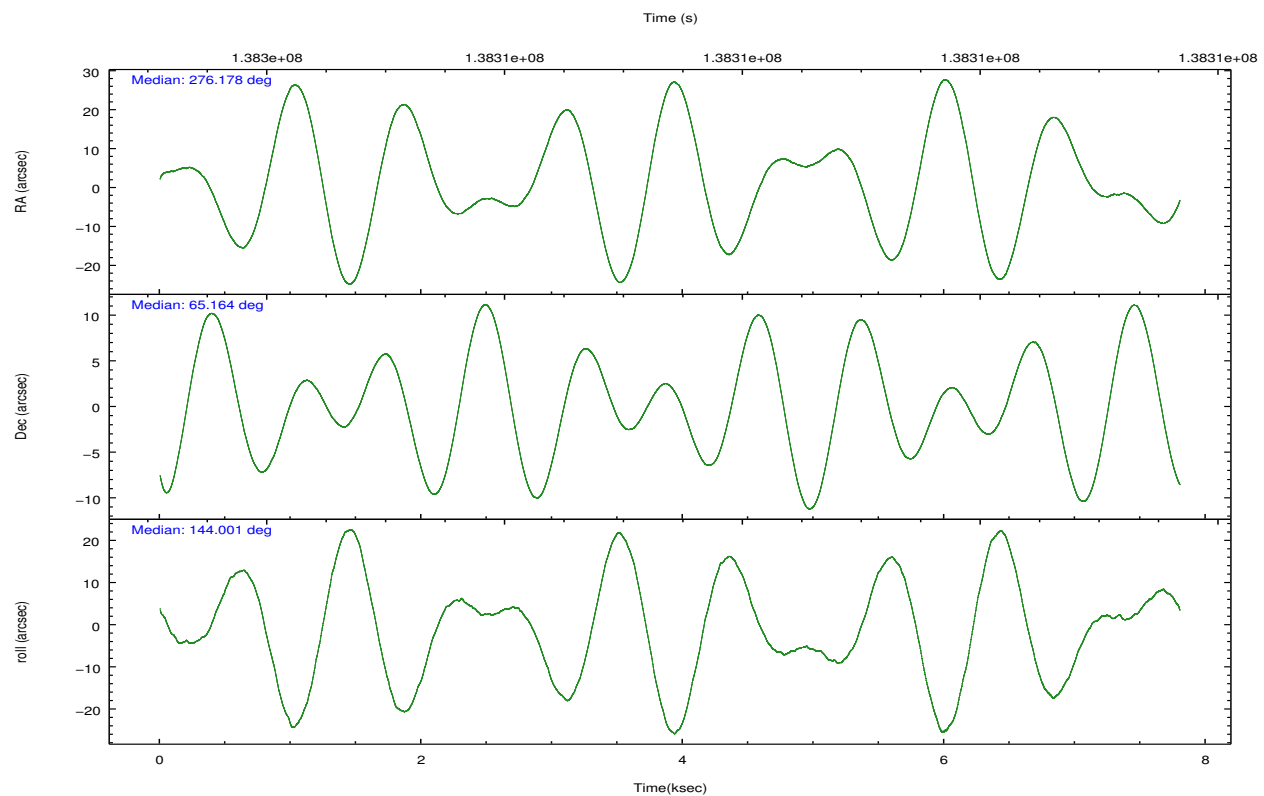
## 2.2 Compared Parameters

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	276.243176	276.1784857585694
[deg] Pointing Dec	65.161493	65.16401017735325
[deg] Pointing Roll	143.792136	144.0074753425251
[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)	138304296.184000	138303024.88816
Observation start date	2002-05-20T17:50:32	2002-05-20T17:30:24
[s] Observation end time (MET)	138311296.184000	138311890.11353
Observation end date	2002-05-20T19:47:12	2002-05-20T19:58:10
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



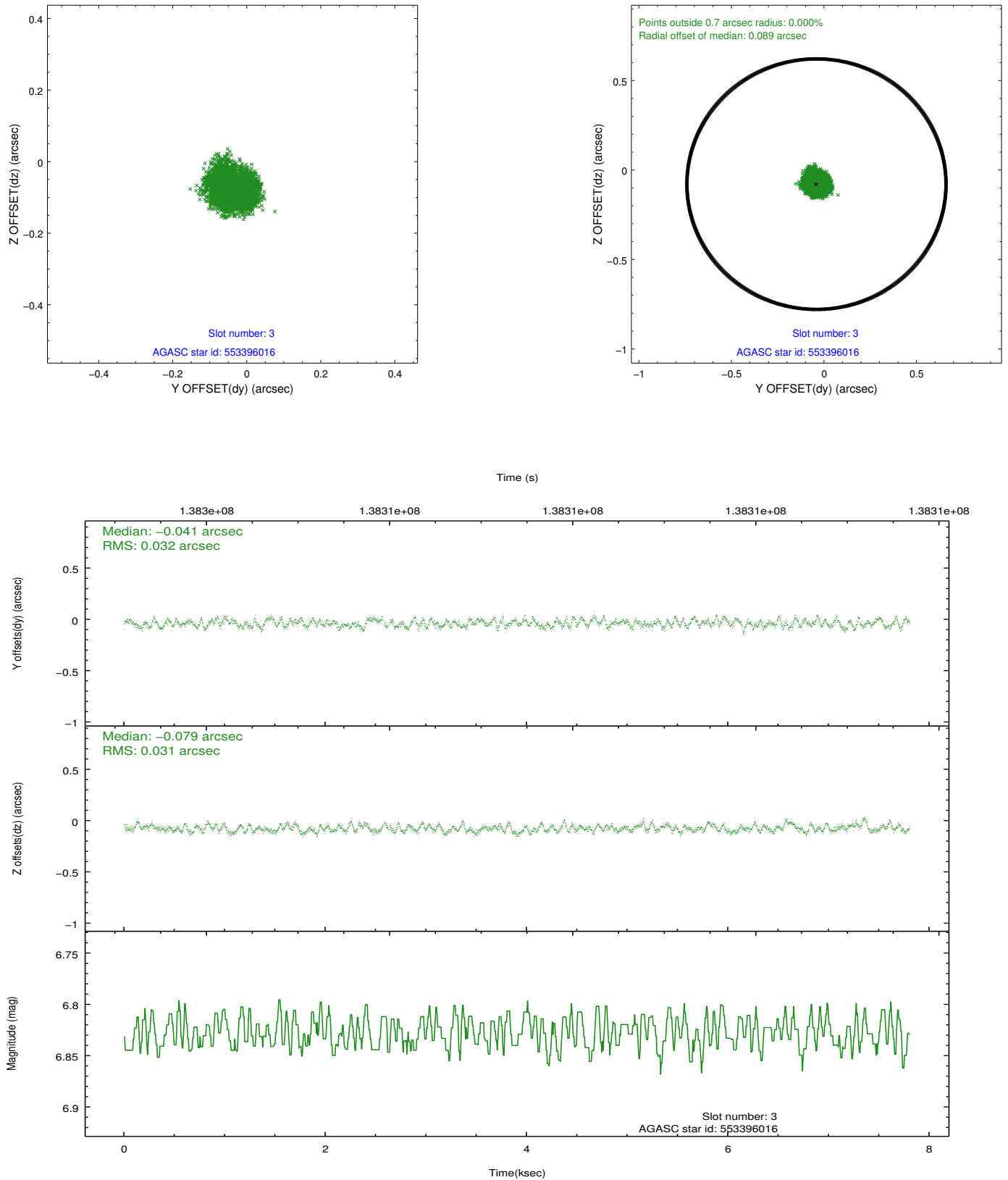


### Slot Statistics

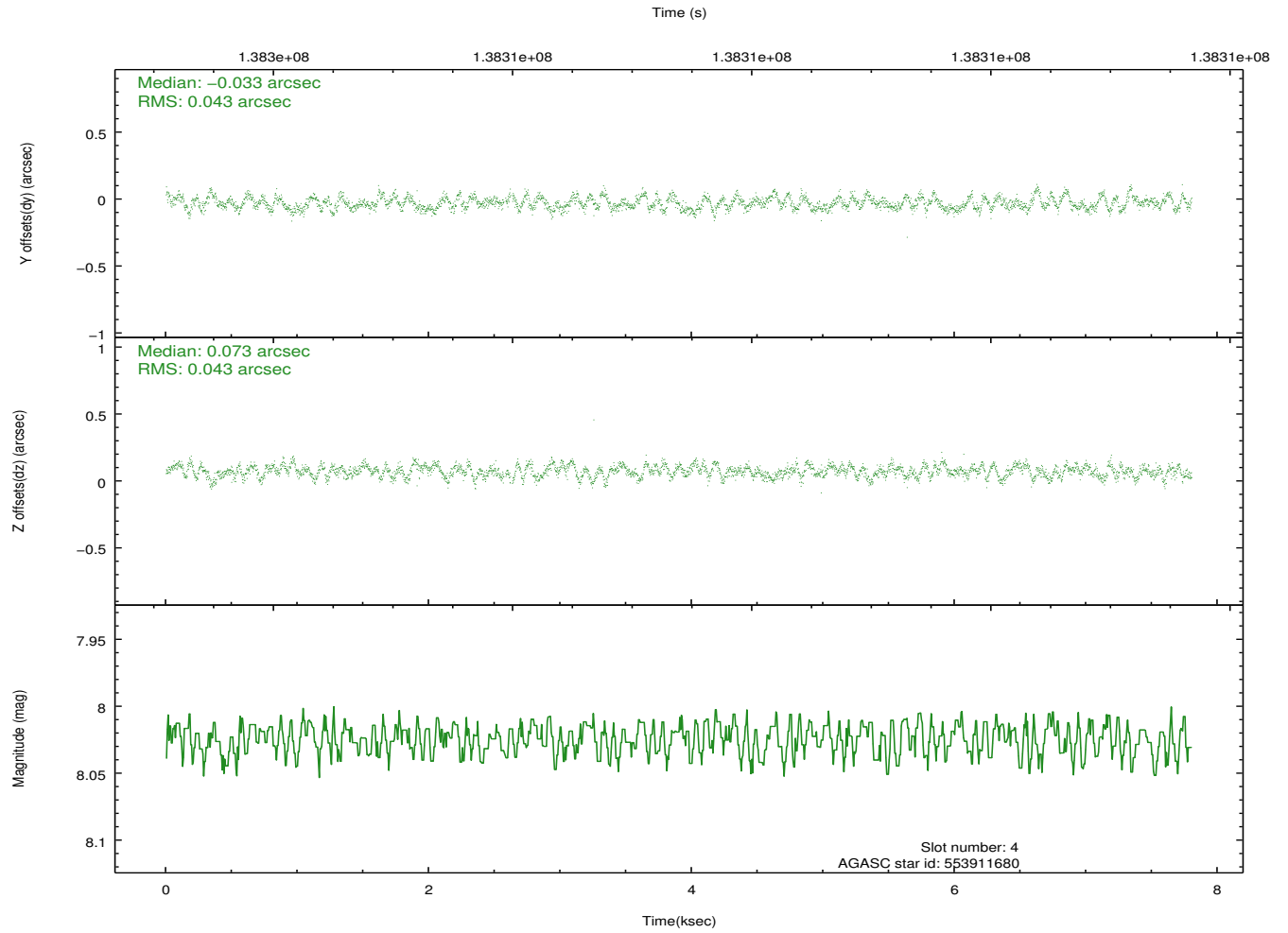
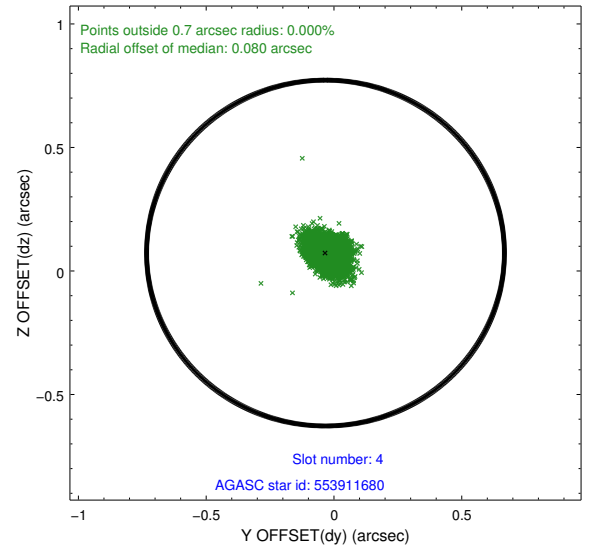
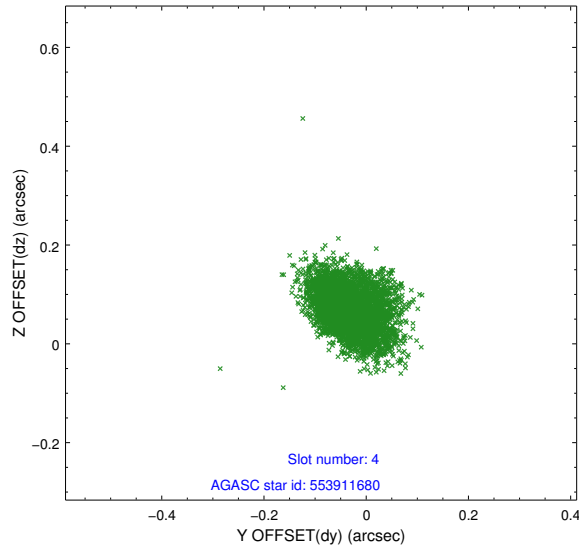
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1897	0.028	-0.054	0.007	0.012	0.000000	0.000000	940.86	-1723.83
1	FID	ACIS-S-5	7.24	1896	0.002	0.033	0.007	0.011	0.000000	0.000000	-1807.73	173.10
2	FID	ACIS-S-6	7.35	1896	-0.051	0.033	0.008	0.014	0.000000	0.000000	405.59	817.85
3	GUIDE	553396016	6.83	3795	-0.041	-0.079	0.048	0.075	276.292154	64.838422	-748.27	894.34
4	GUIDE	553911680	8.02	3795	-0.033	0.073	0.064	0.104	276.353154	65.759587	1140.13	-1832.61
5	GUIDE	553390088	8.13	3795	0.046	-0.118	0.047	0.077	275.080396	65.321887	1760.28	553.44
6	GUIDE	553389000	9.04	3795	0.044	0.079	0.095	0.157	277.987621	65.371217	-1644.09	-2183.78
7	GUIDE	553390000	9.11	3793	-0.018	0.054	0.074	0.122	274.423010	65.006562	1926.32	2053.27

## 2.4 Star Slots

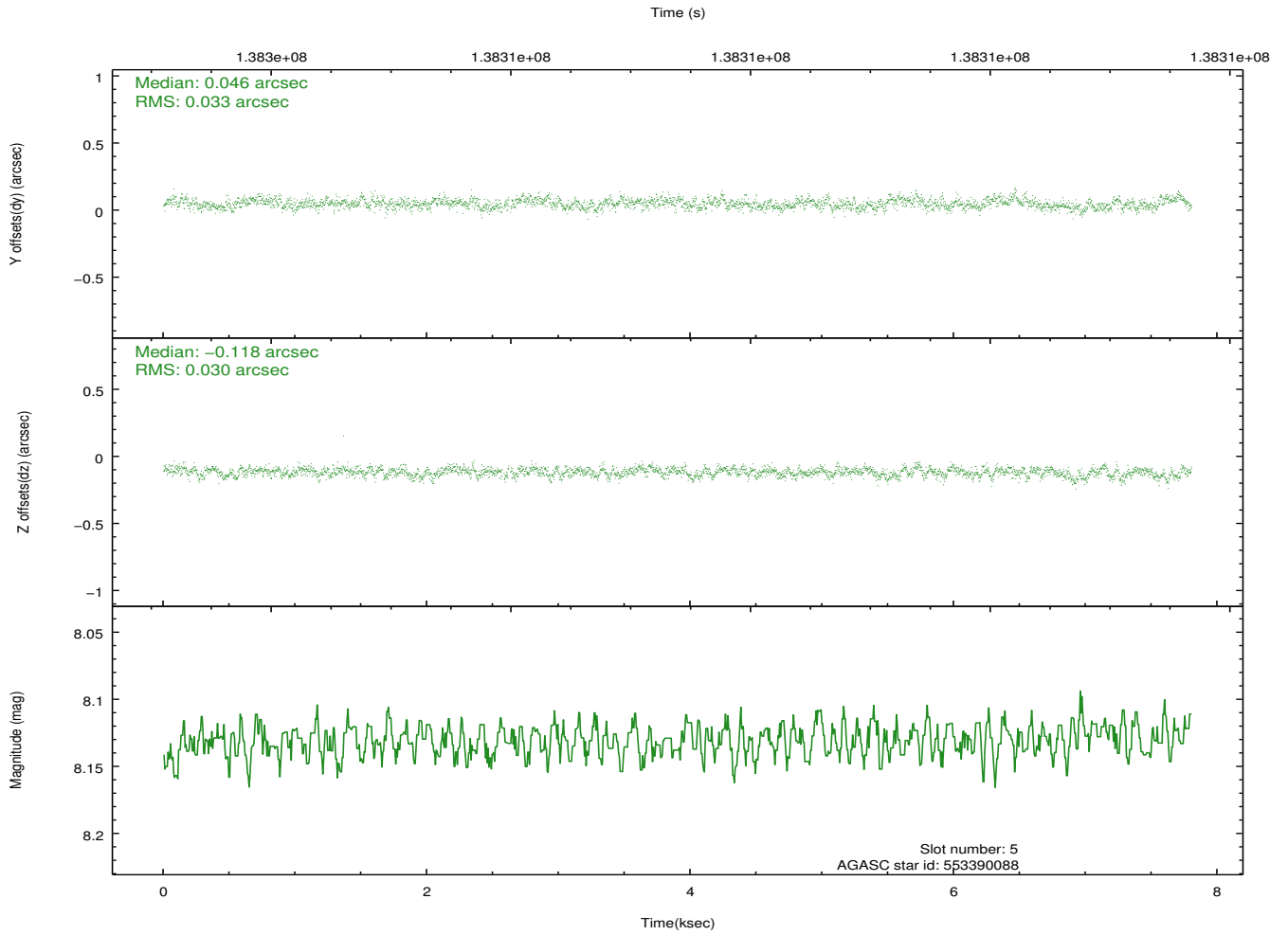
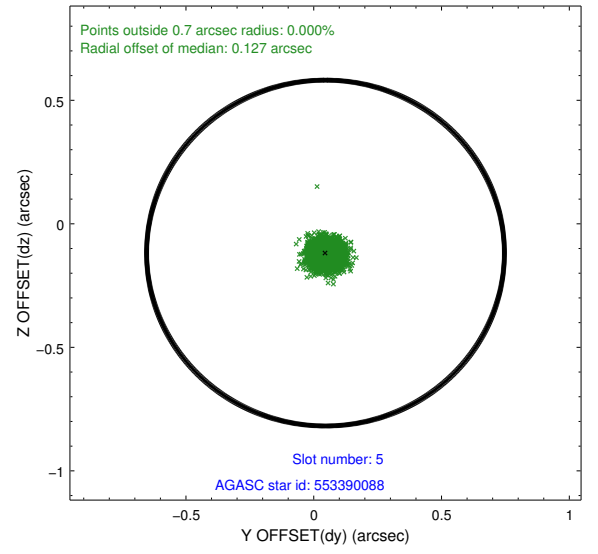
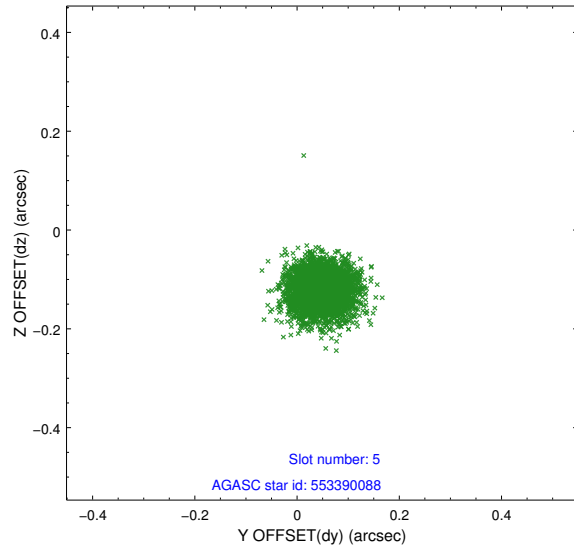
### 2.4.1 Slot 3



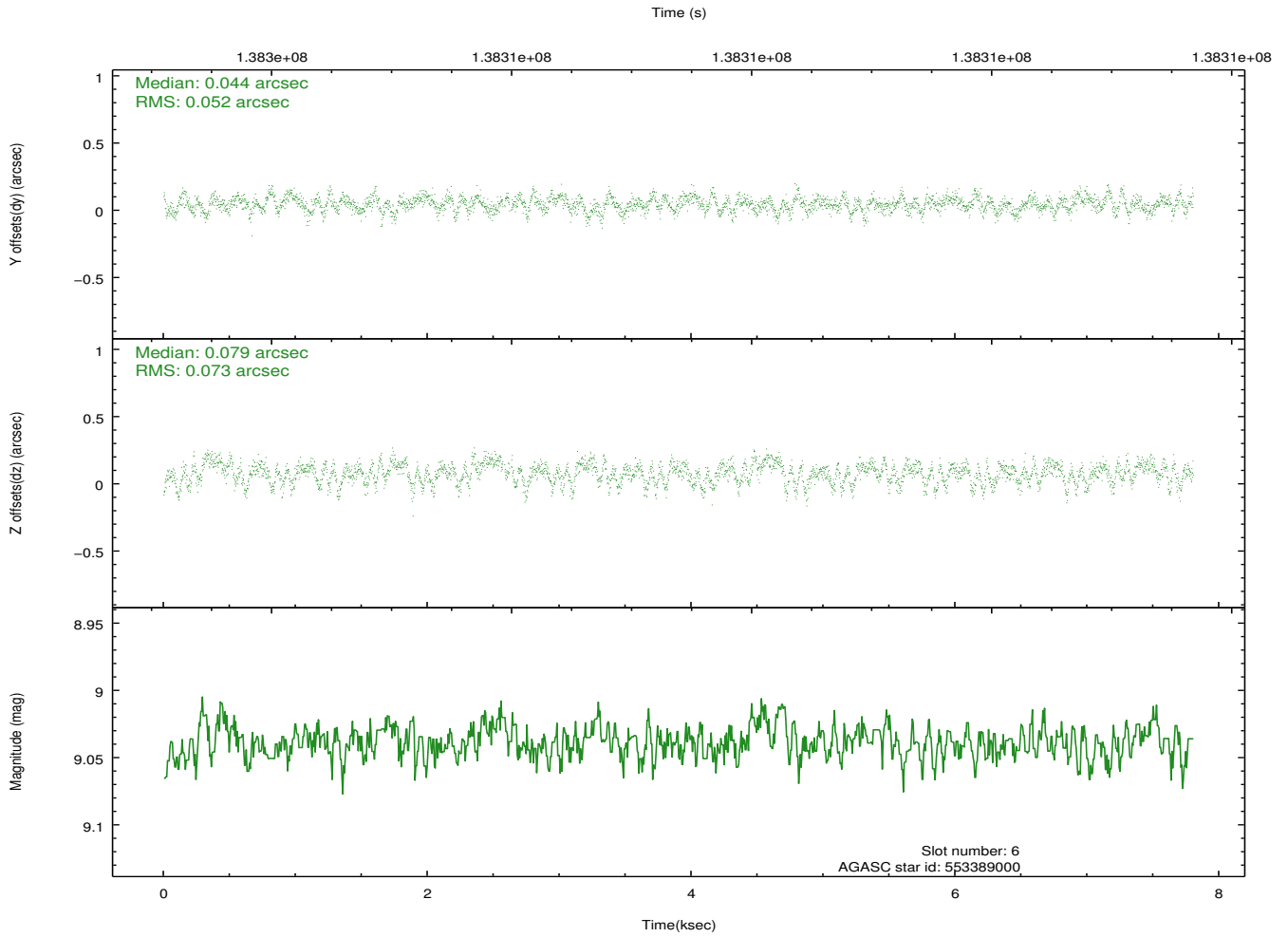
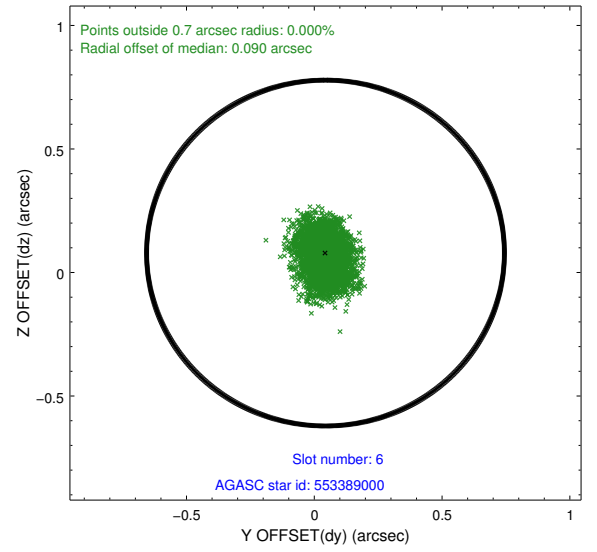
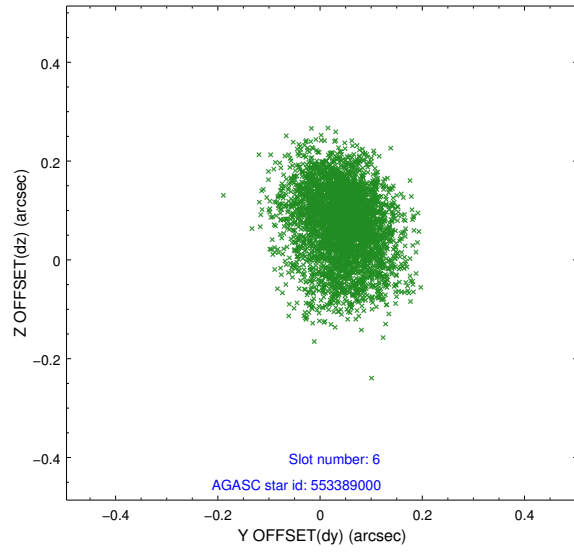
## 2.4.2 Slot 4



### 2.4.3 Slot 5

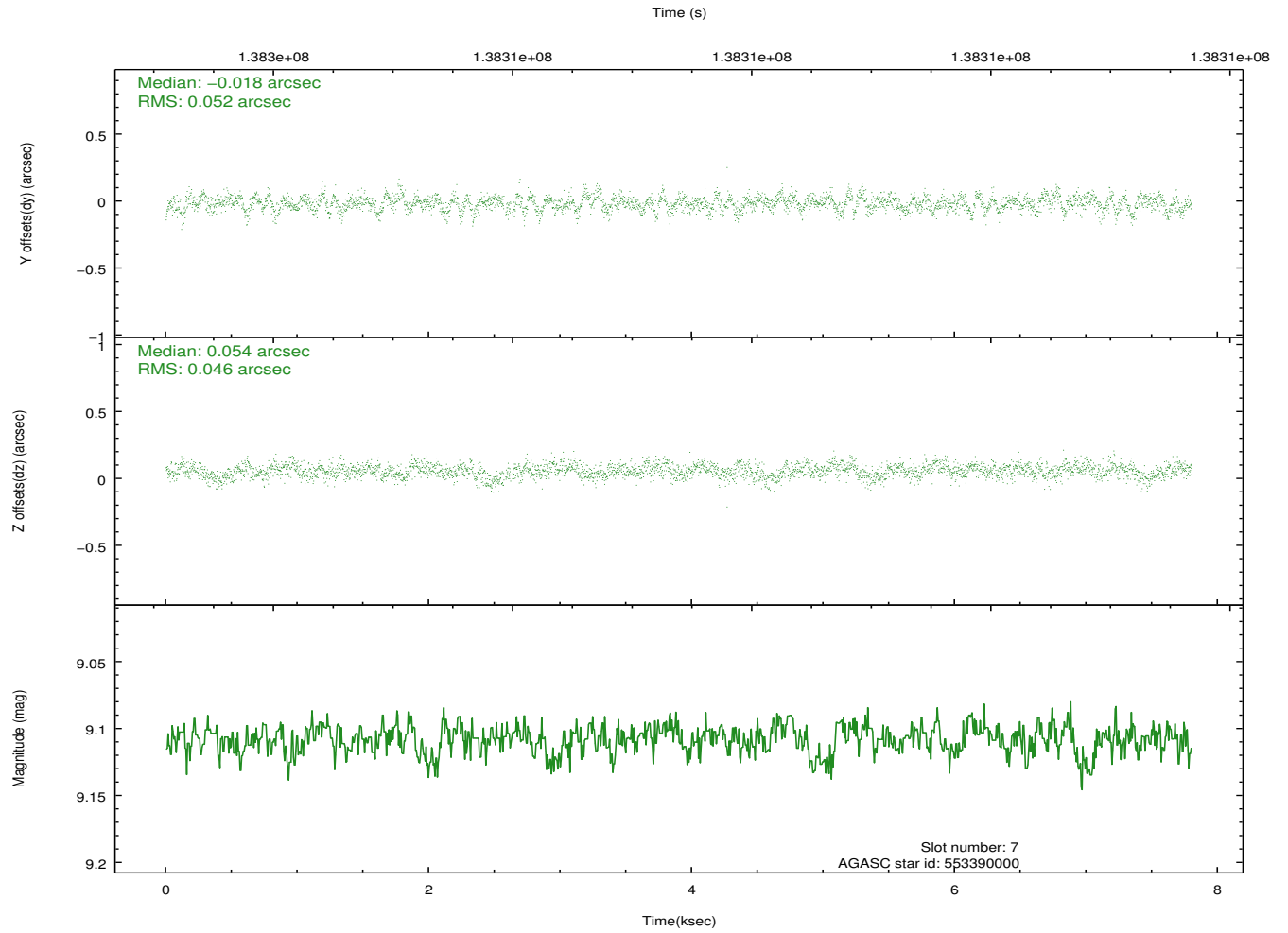
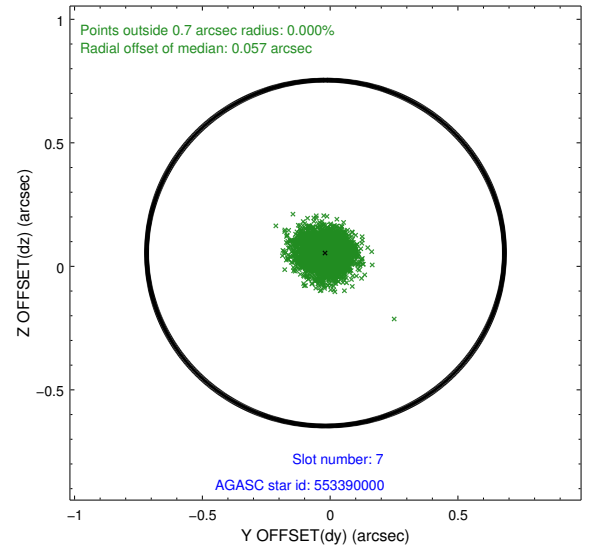
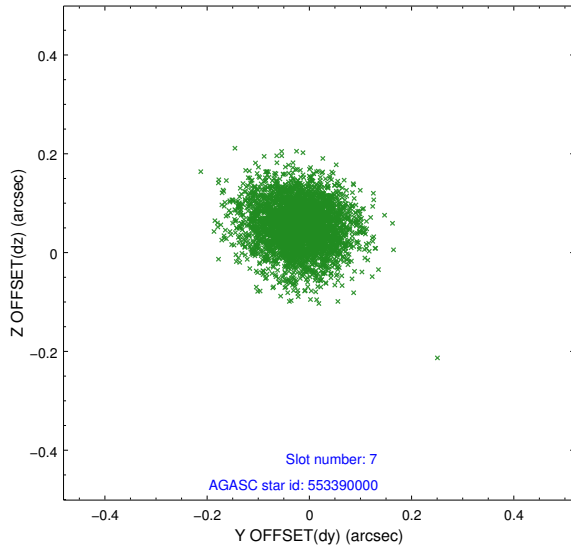


## 2.4.4 Slot 6



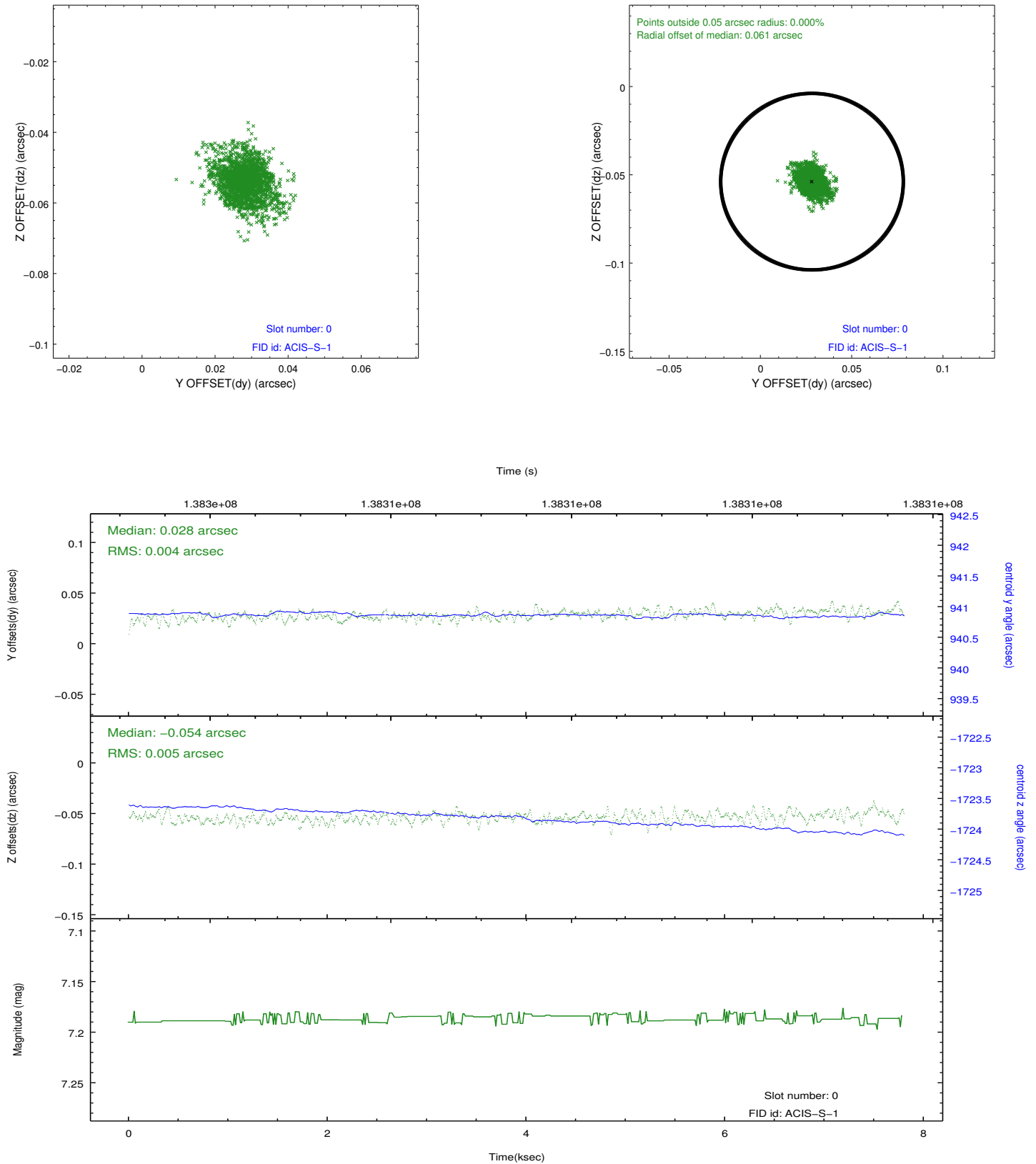


## 2.4.5 Slot 7

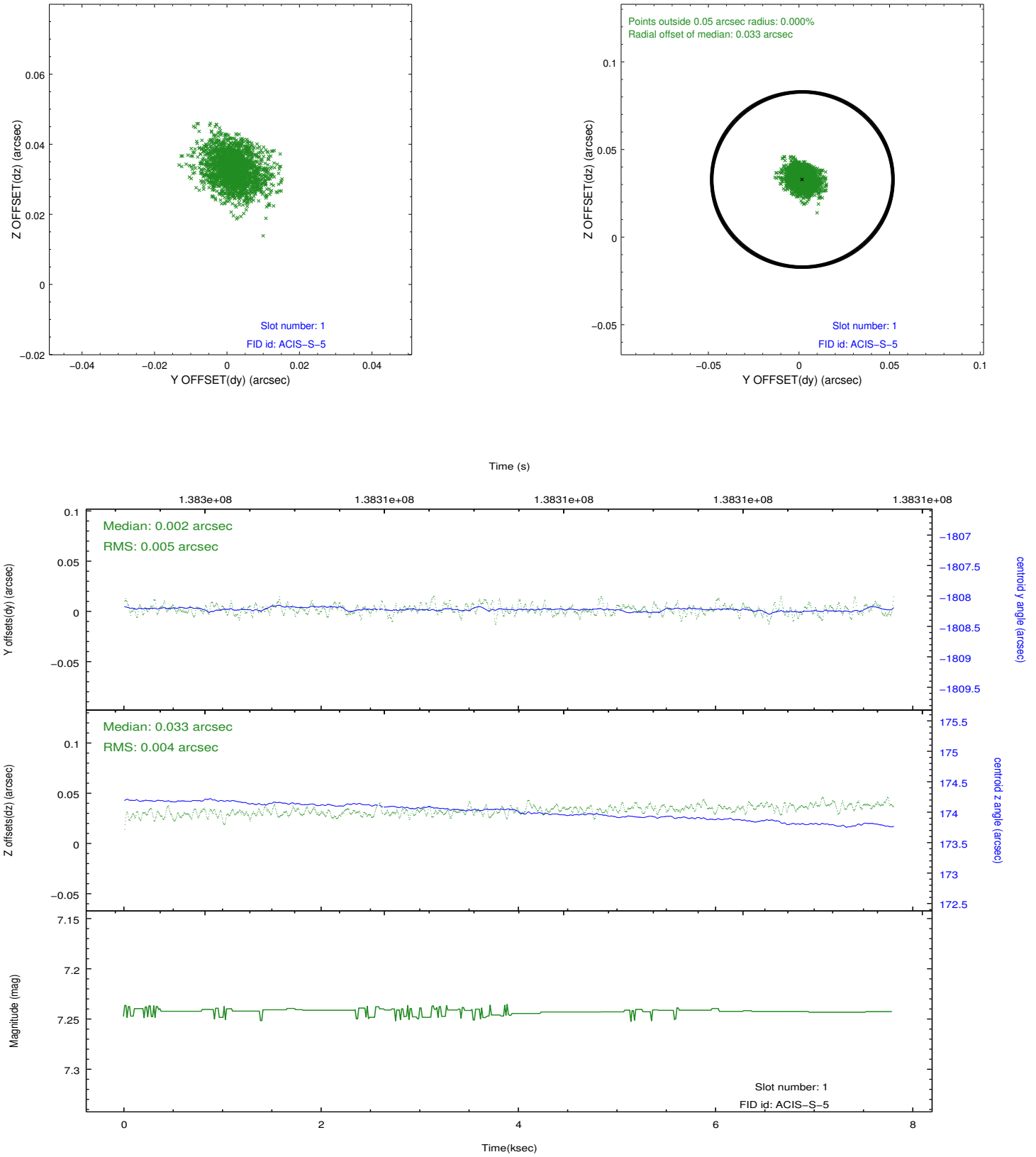


## 2.5 FID Slots

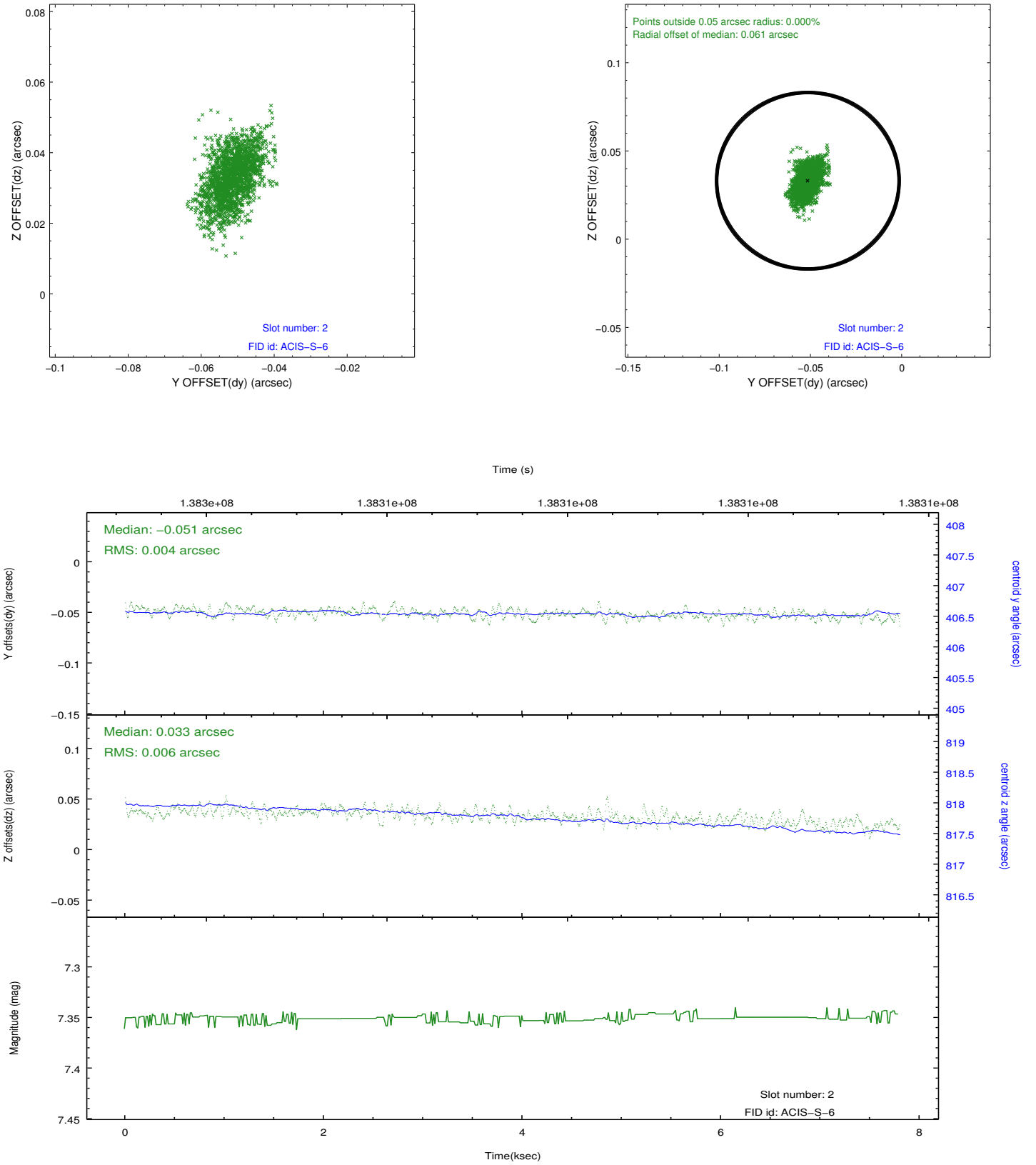
### 2.5.1 Slot 0



## 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)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.946

### A.2 Comments