

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4080 - L2 Version 4  
Chandra X-Ray Center

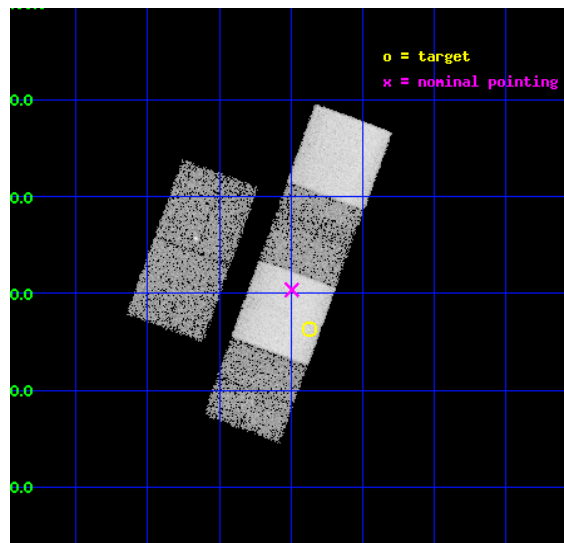
L2 Processing Date : Nov 2 2012

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# 1 Front

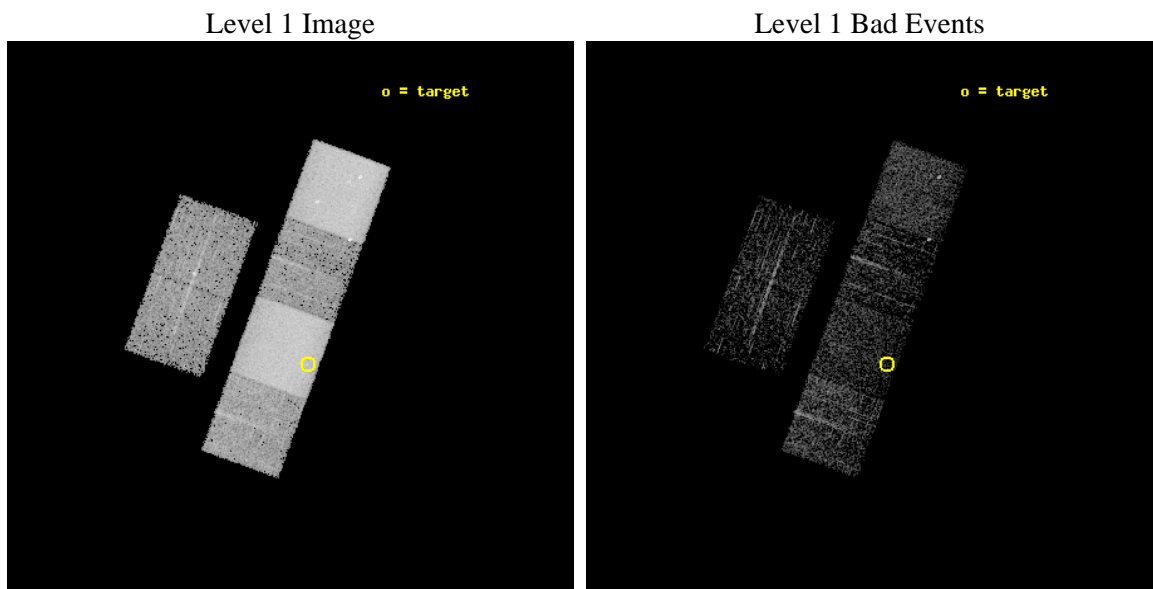
seq_num	700759	Sequence number
obs_id	4080	Observation id
title	ARE ALL NARROW-LINE SEYFERT 1S ULTRASOFT X-RAY SOURCES?	Proposal t
observer	Prof RICHARD POGGE	Principal investigator
object	SDSS J002752.39+002615.8	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.968333	Observer's specified target RA [deg]
dec_targ	0.437722	Observer's specified target Dec [deg]
ra_nom	6.9982863145499	Nominal RA [deg]
dec_nom	0.50608809889927	Nominal Dec [deg]
roll_nom	110.07222891335	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1577.599994123	Sum of GTIs [s]
livetime	1557.6234730807	Livetime [s]
ontime2	1577.599994123	Sum of GTIs [s]
ontime3	1577.599994123	Sum of GTIs [s]
ontime5	1577.599994123	Sum of GTIs [s]
ontime6	1577.599994123	Sum of GTIs [s]
ontime7	1577.599994123	Sum of GTIs [s]
ontime8	1574.359053731	Sum of GTIs [s]
l2events	154019	Number of level 2 events



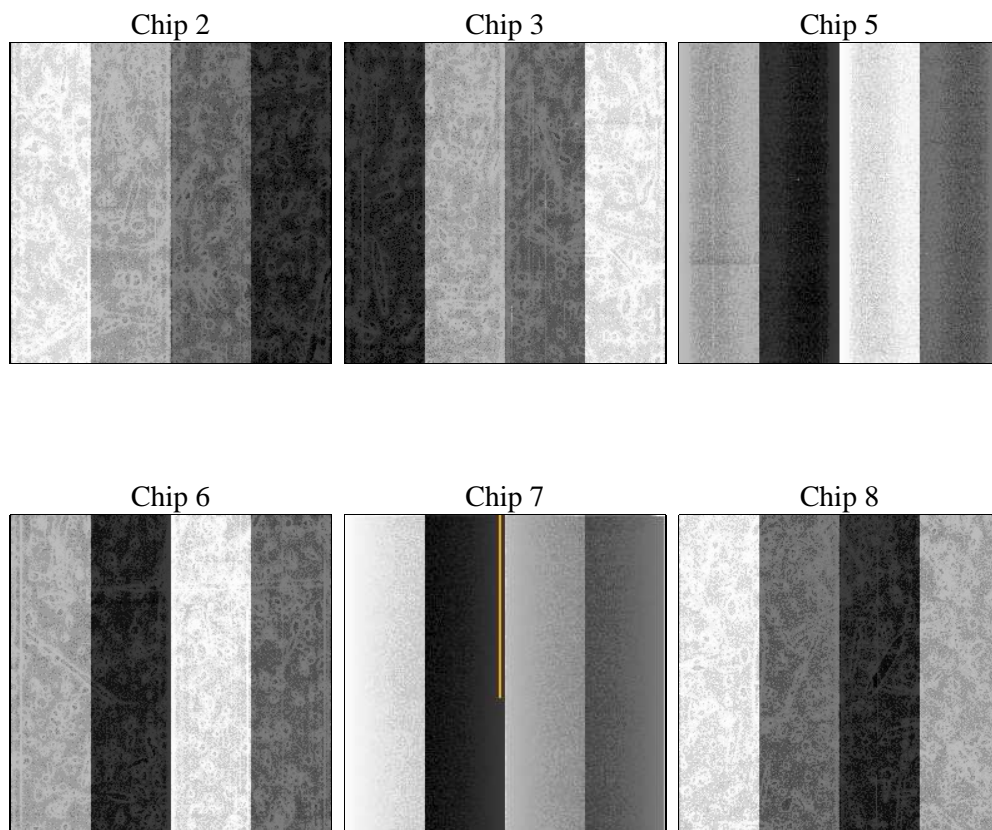
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1825.475000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1577.599994123	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1577.599994123	Sum of GTIs [s]
date	2012-11-02T15:43:58	Date and time of file creation	ontime3	1577.599994123	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1577.599994123	Sum of GTIs [s]
			ontime6	1577.599994123	Sum of GTIs [s]
			ontime7	1577.599994123	Sum of GTIs [s]
			ontime8	1574.359053731	Sum of GTIs [s]
			l1events	224843	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18250	17168	74328	18895	70995	25207
rejected events	9252	8412	13690	9171	9699	14303
rejected %	50%	48%	18%	48%	13%	56%

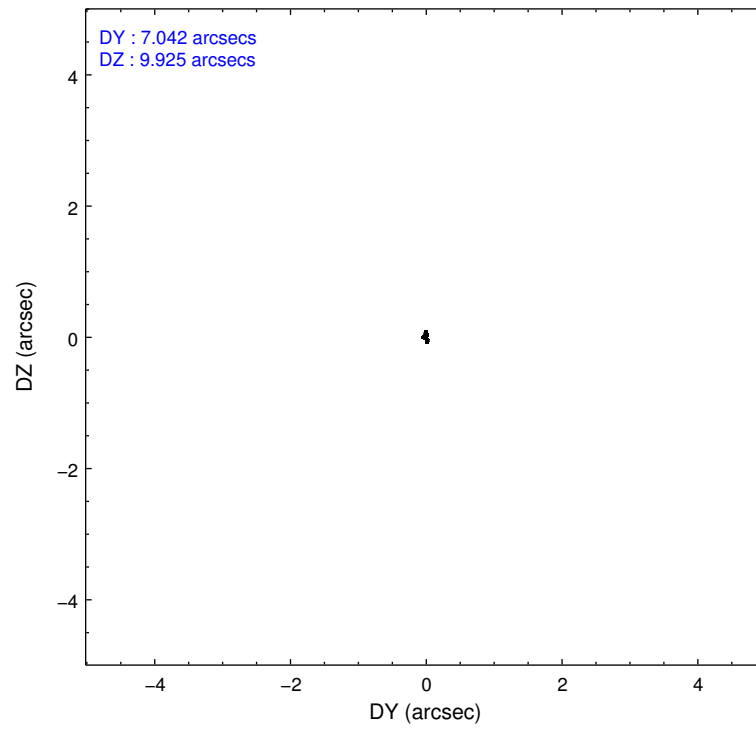
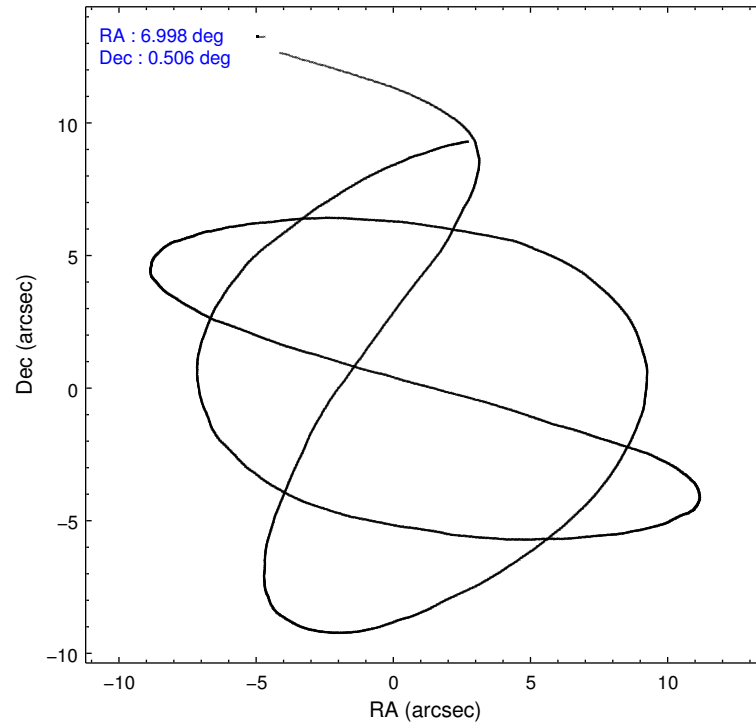
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6707	6366	10034	7023	6894	7202
	36%	37%	13%	37%	9%	28%
grade 1 events	36	38	277	30	18	110
	0%	0%	0%	0%	0%	0%
grade 2 events	923	975	16785	1148	10533	1371
	5%	5%	22%	6%	14%	5%
grade 3 events	380	414	3636	389	4594	575
	2%	2%	4%	2%	6%	2%
grade 4 events	392	395	3610	420	4502	592
	2%	2%	4%	2%	6%	2%
grade 5 events	425	464	1868	499	1603	665
	2%	2%	2%	2%	2%	2%
grade 6 events	612	614	26703	757	34901	1172
	3%	3%	35%	4%	49%	4%
grade 7 events	8775	7902	11415	8629	7950	13520
	48%	46%	15%	45%	11%	53%

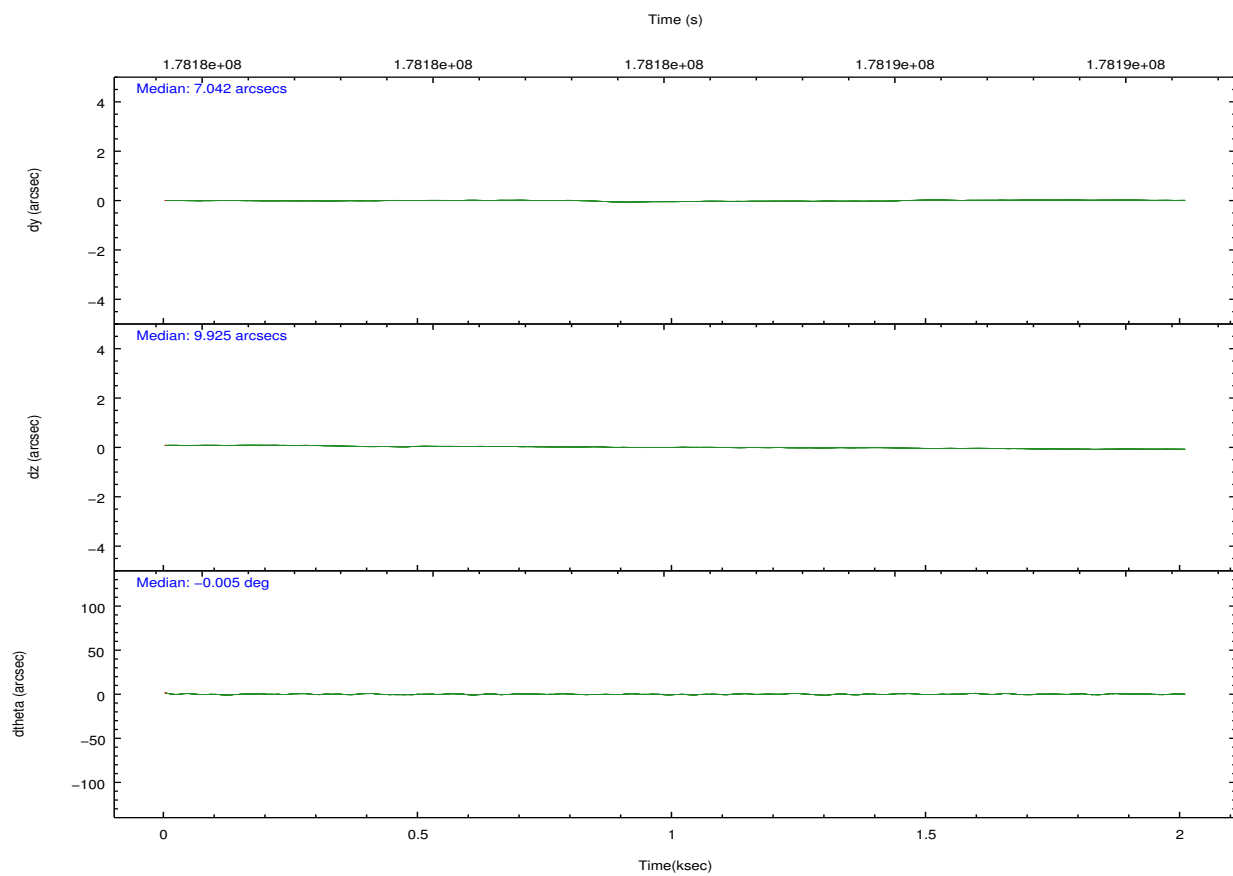
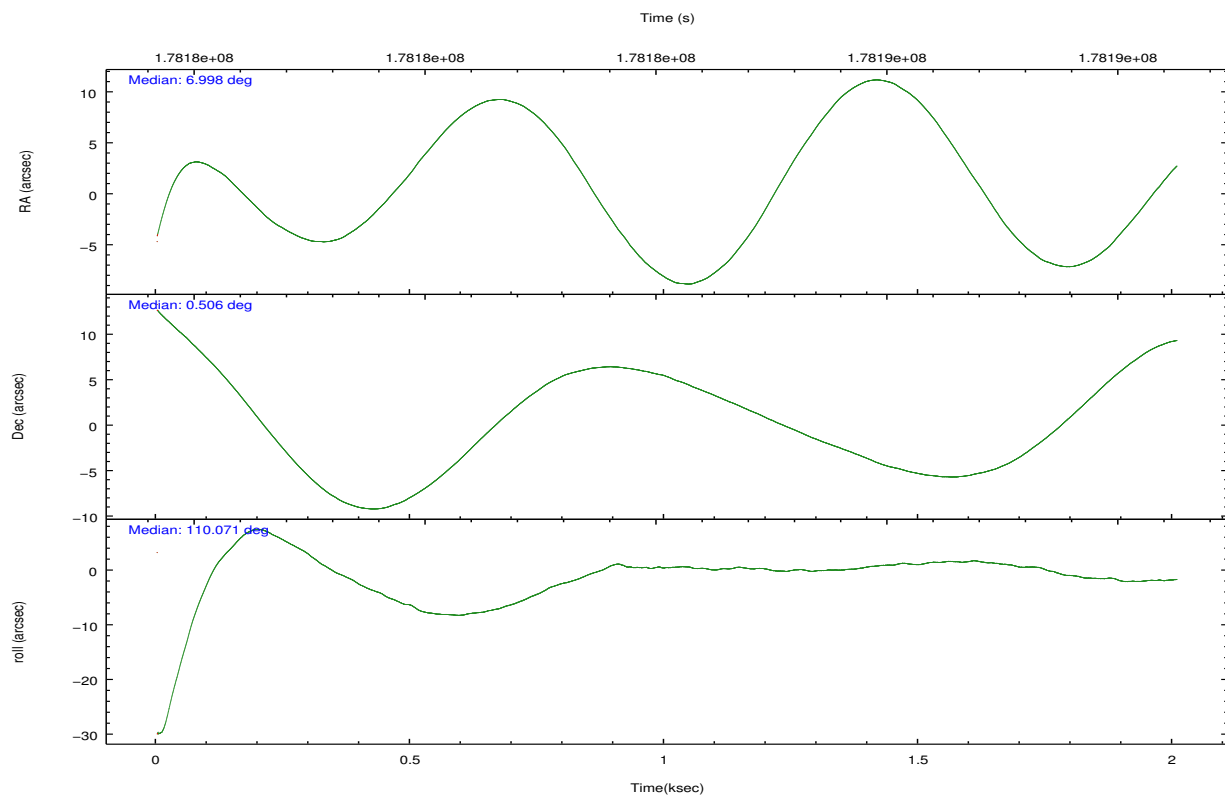
## 2.2 Compared Parameters

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	7.019629	6.998286314549901
[deg] Pointing Dec	0.488929	0.5060880988992746
[deg] Pointing Roll	109.915594	110.0722289133546
[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)	178184201.184000	178183329.88075
Observation start date	2003-08-25T07:35:37	2003-08-25T07:22:09
[s] Observation end time (MET)	178186026.184000	178186340.81838
Observation end date	2003-08-25T08:06:02	2003-08-25T08:12:20
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





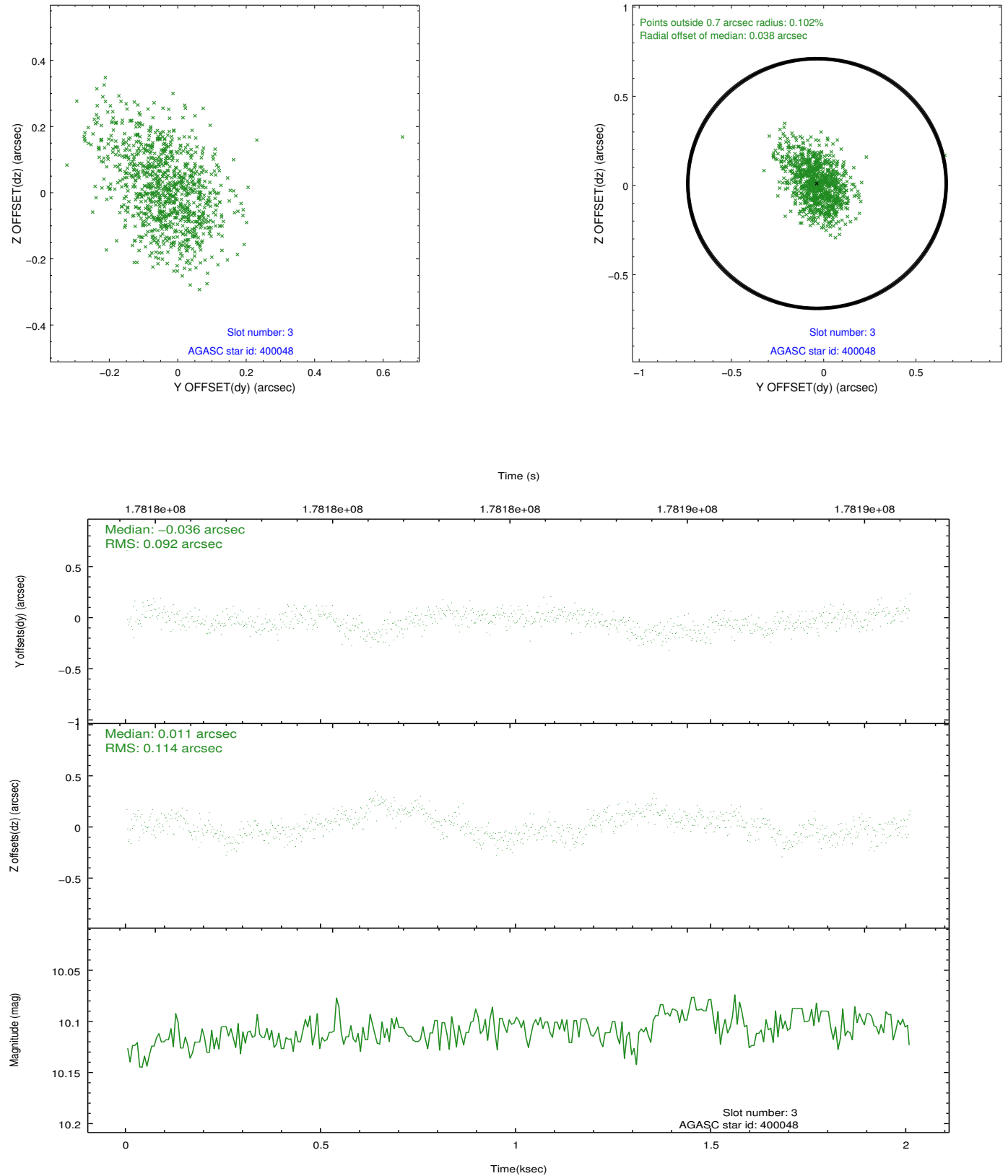
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	490	-0.050	-0.023	0.007	0.011	0.000000	0.000000	-759.81	-1731.21
1	FID	ACIS-S-4	7.20	490	0.078	0.031	0.005	0.012	0.000000	0.000000	2152.08	174.00
2	FID	ACIS-S-5	7.23	490	-0.059	0.002	0.006	0.012	0.000000	0.000000	-1808.50	171.29
3	GUIDE	400048	10.11	980	-0.036	0.011	0.154	0.255	7.189953	0.767145	732.90	-918.18
4	GUIDE	400656	8.64	980	-0.026	0.043	0.083	0.133	7.291613	0.040726	-1849.83	-372.52
5	GUIDE	400752	10.21	980	0.012	0.134	0.141	0.232	7.349162	0.104626	-1706.63	-645.01
6	GUIDE	402160	8.39	980	-0.218	-0.205	0.091	0.143	6.512670	0.437560	445.79	1777.98
7	GUIDE	611456192	10.24	979	0.274	0.023	0.295	0.444	7.278551	-0.042148	-2114.26	-223.84

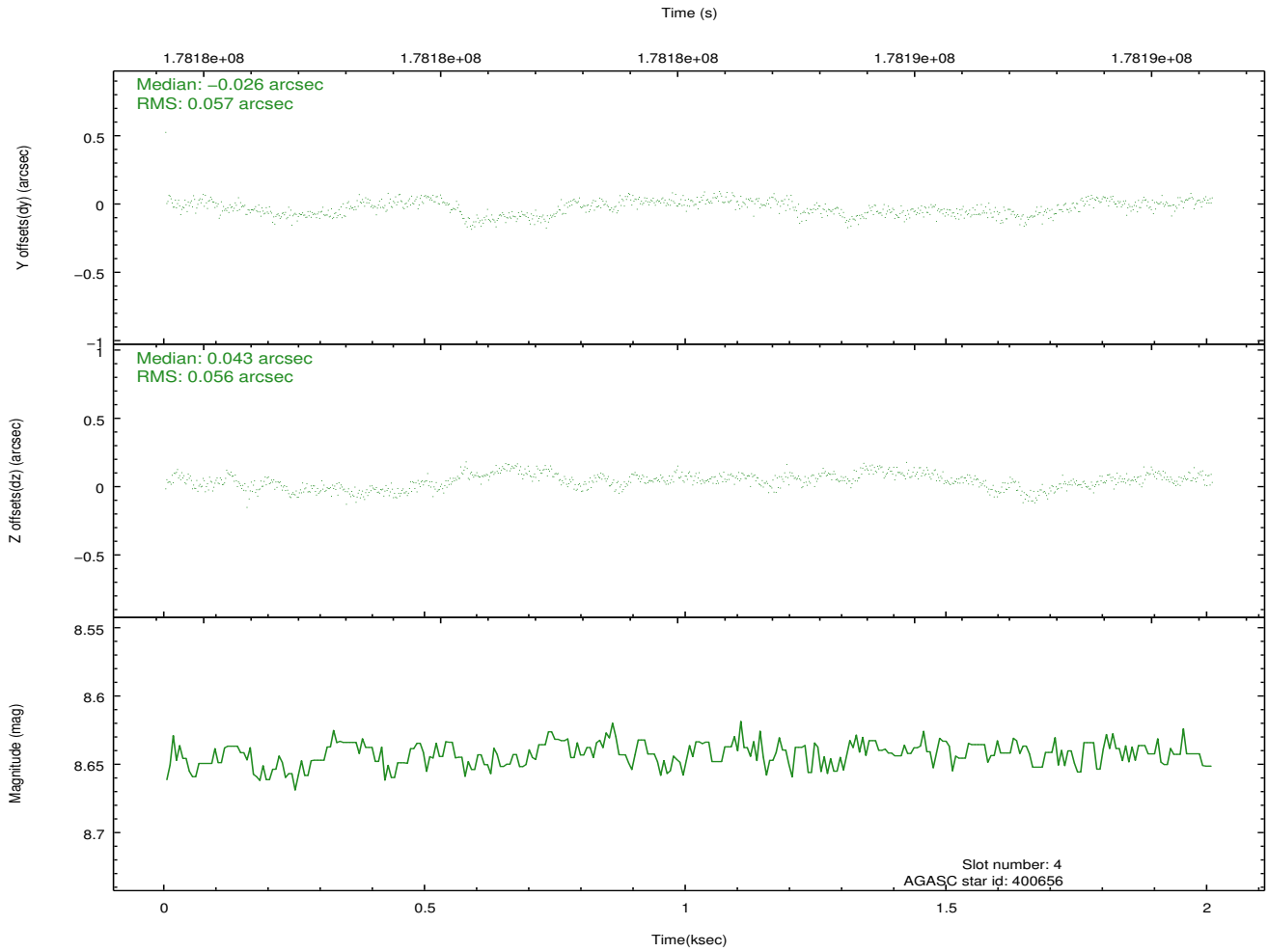
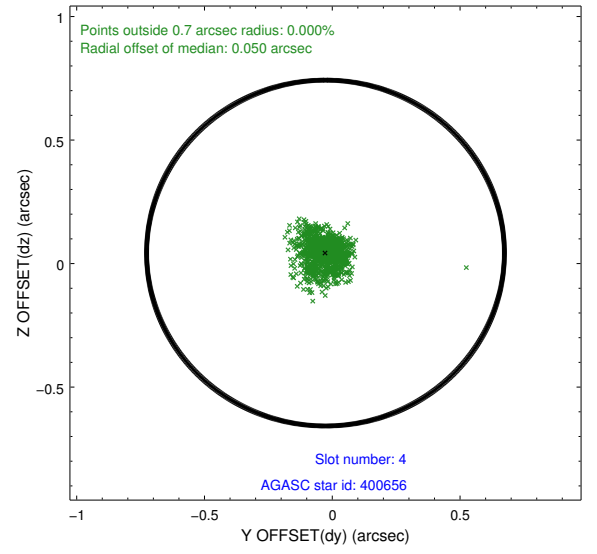
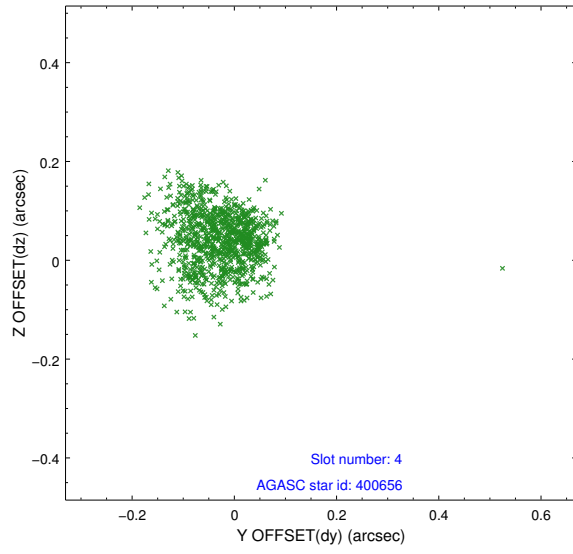


## 2.4 Star Slots

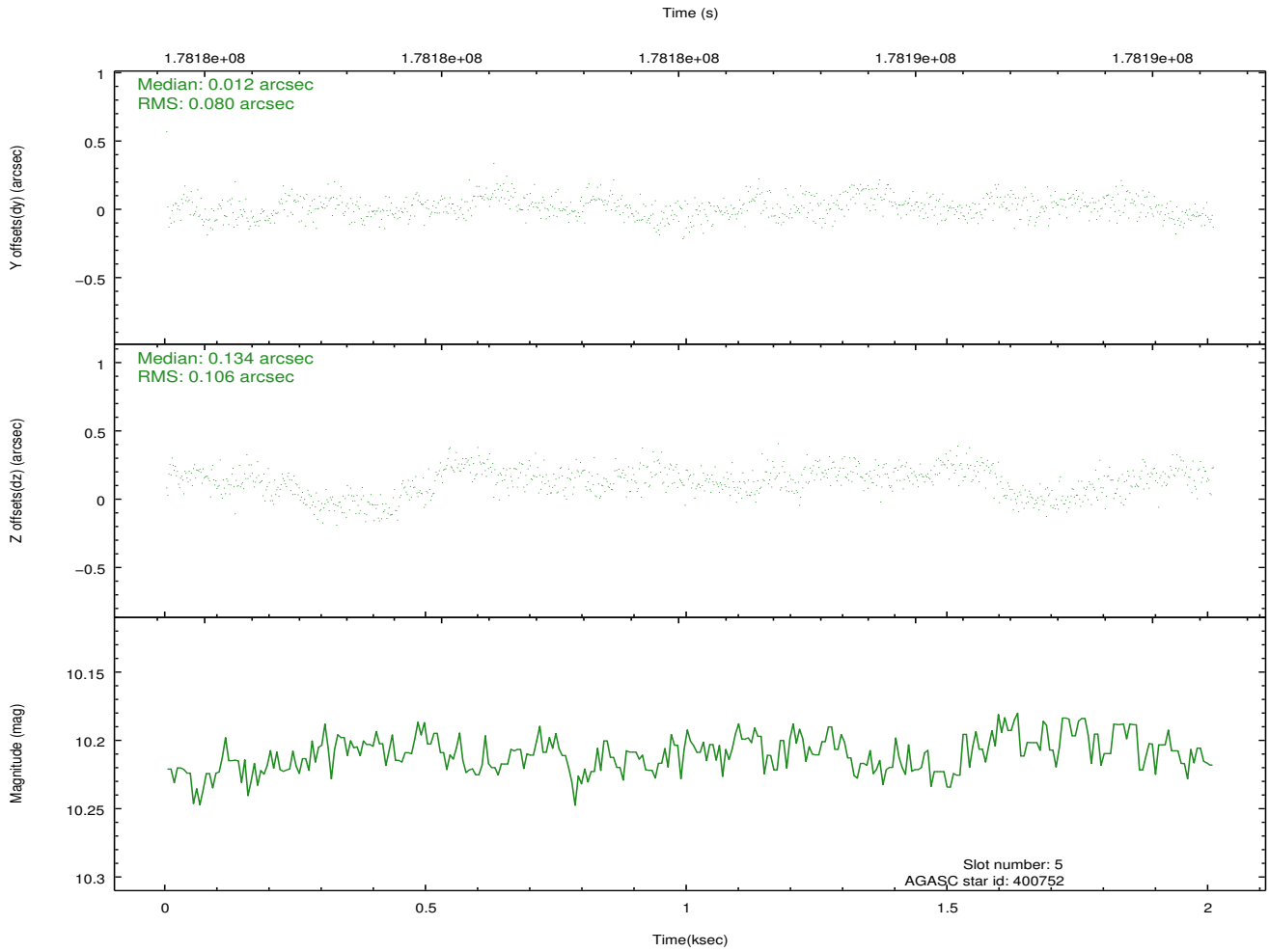
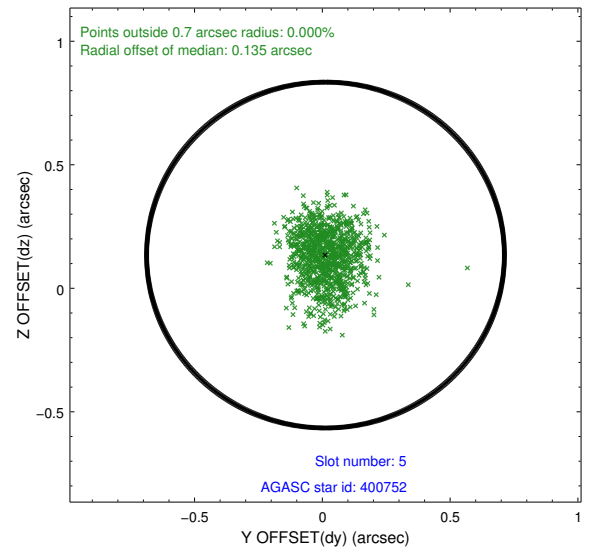
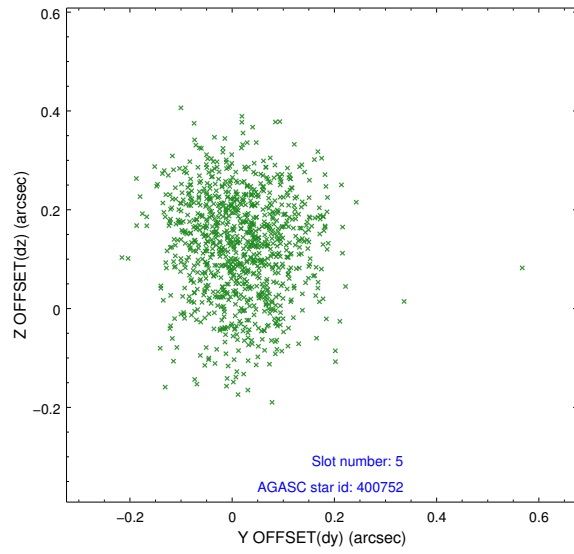
### 2.4.1 Slot 3



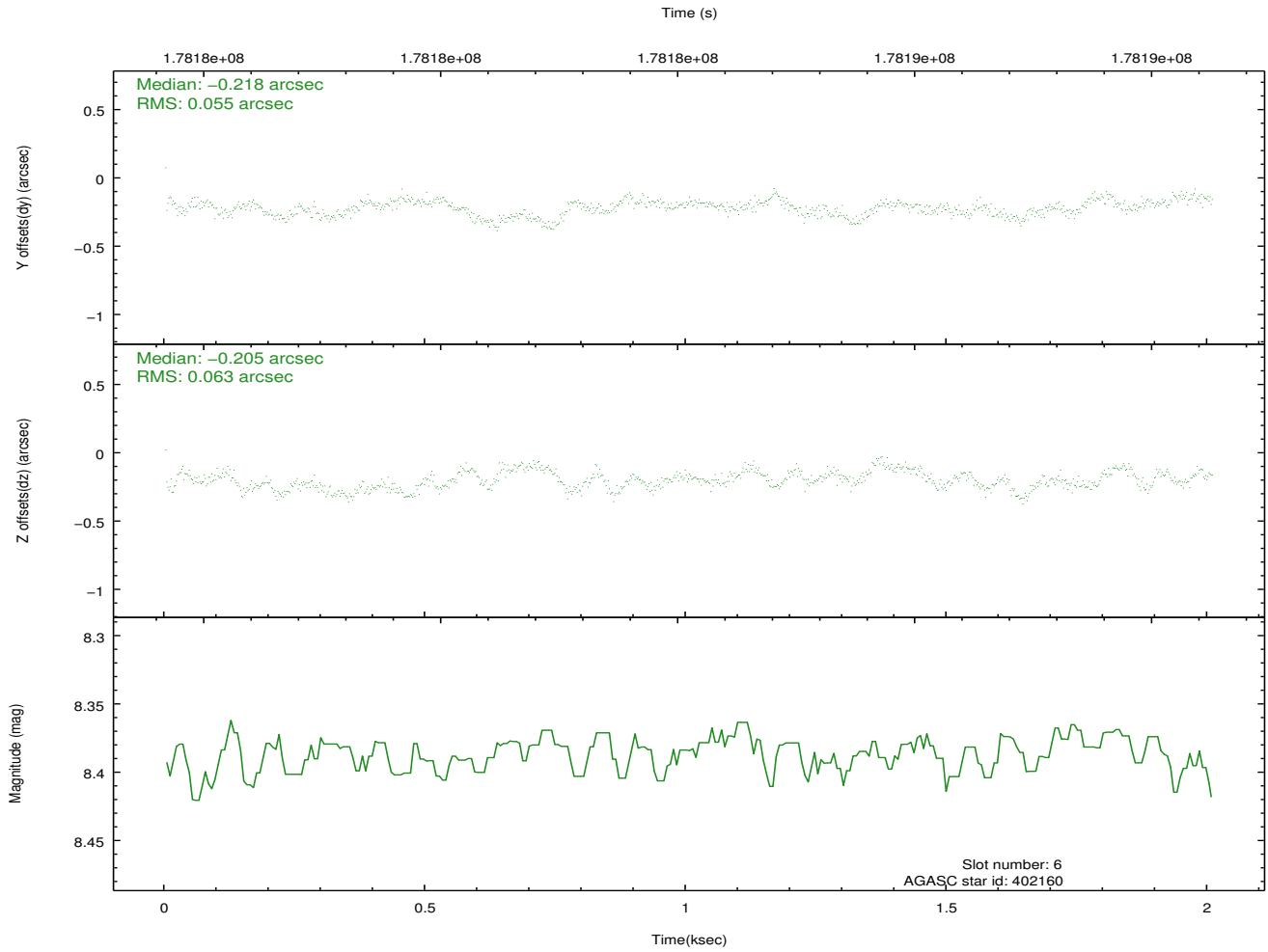
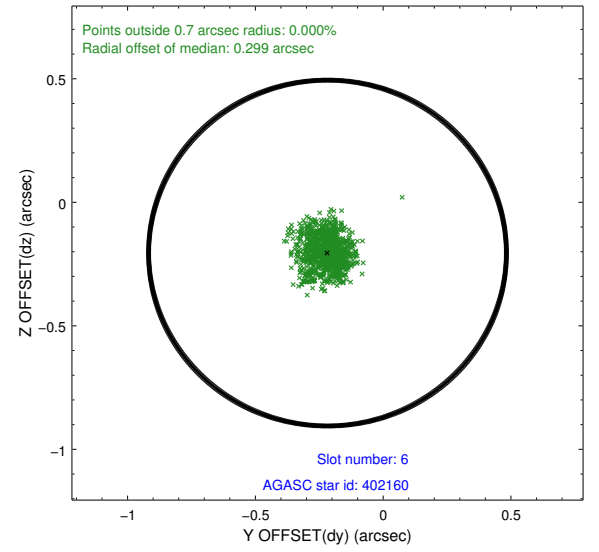
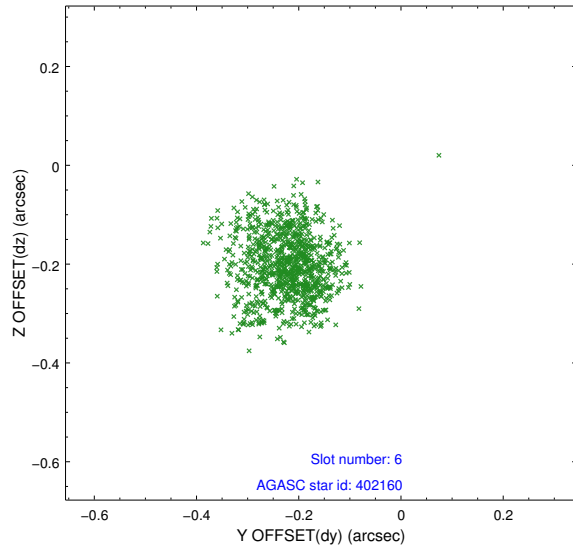
## 2.4.2 Slot 4



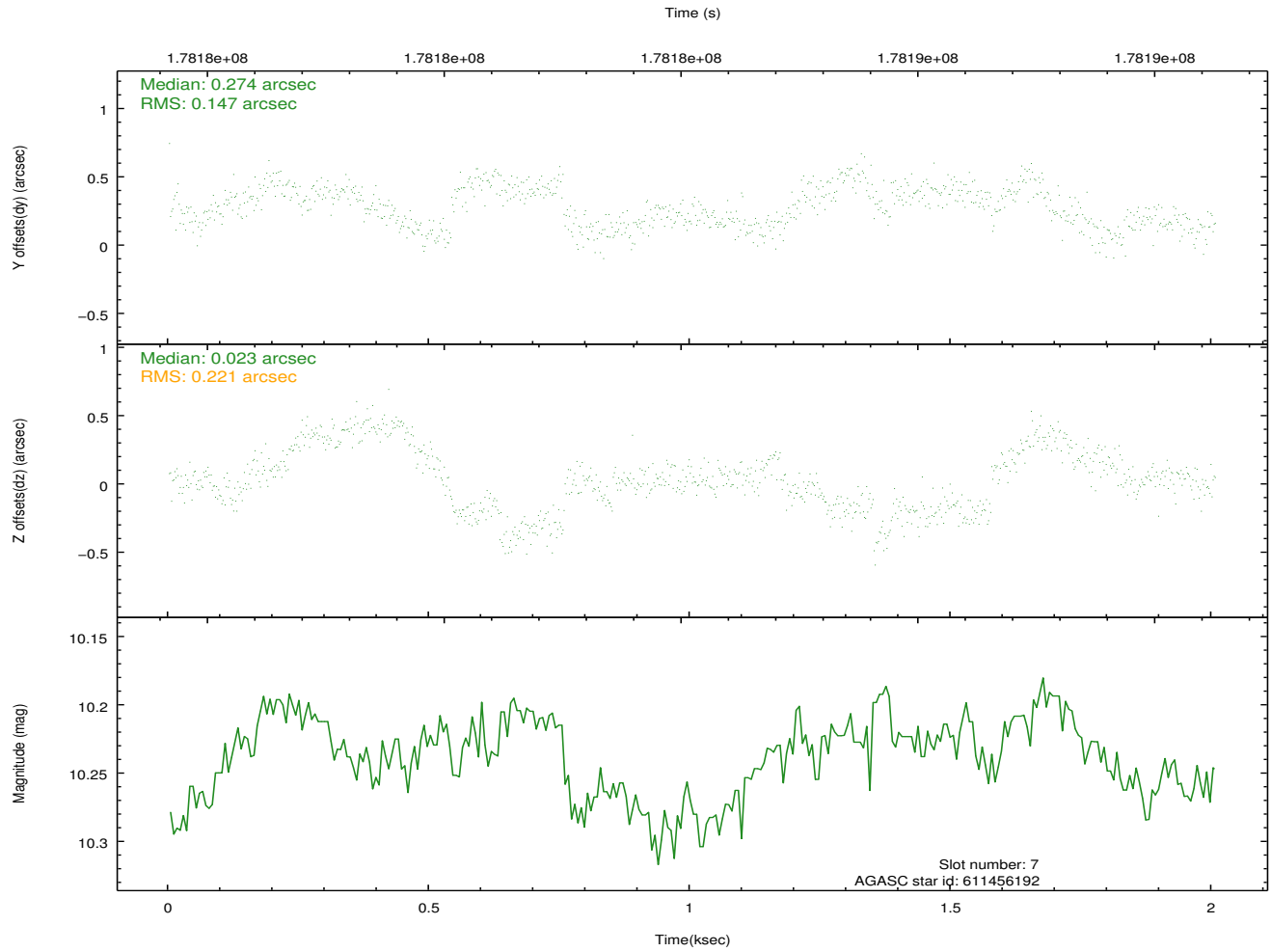
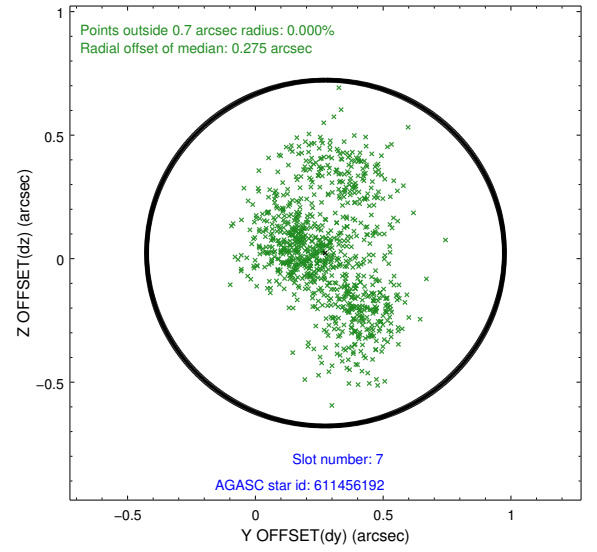
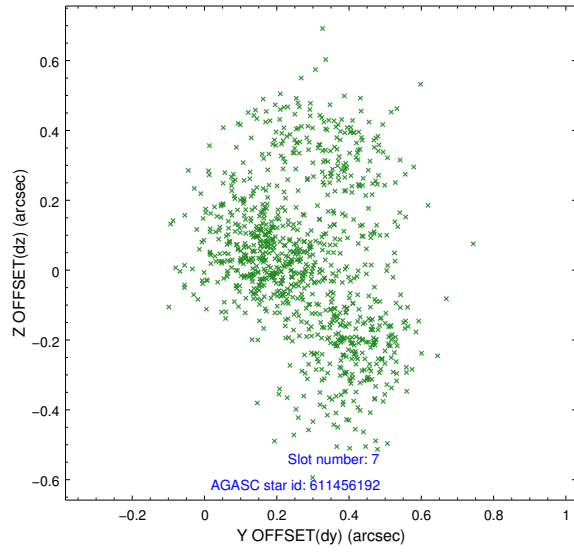
### 2.4.3 Slot 5



## 2.4.4 Slot 6

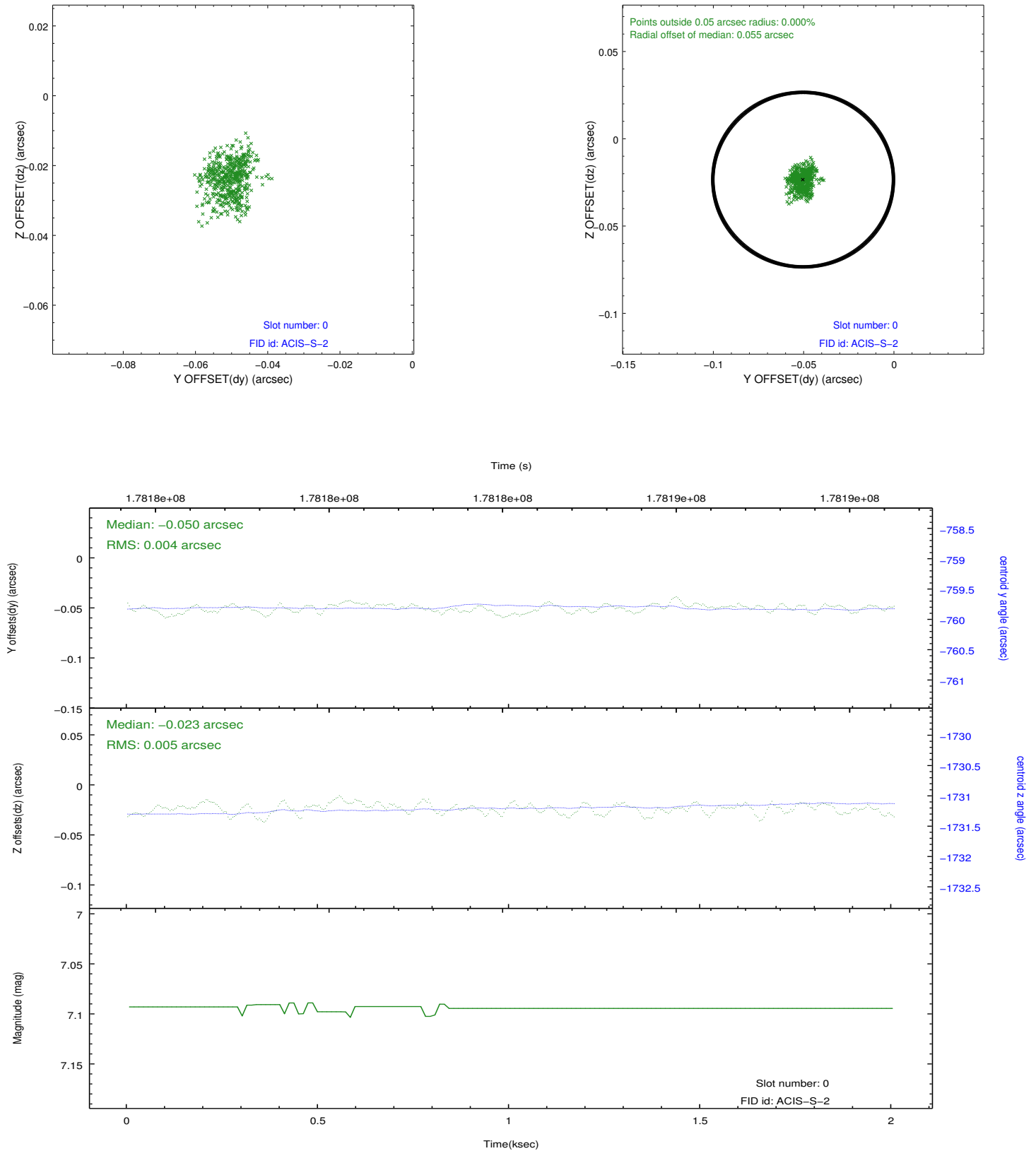


### 2.4.5 Slot 7

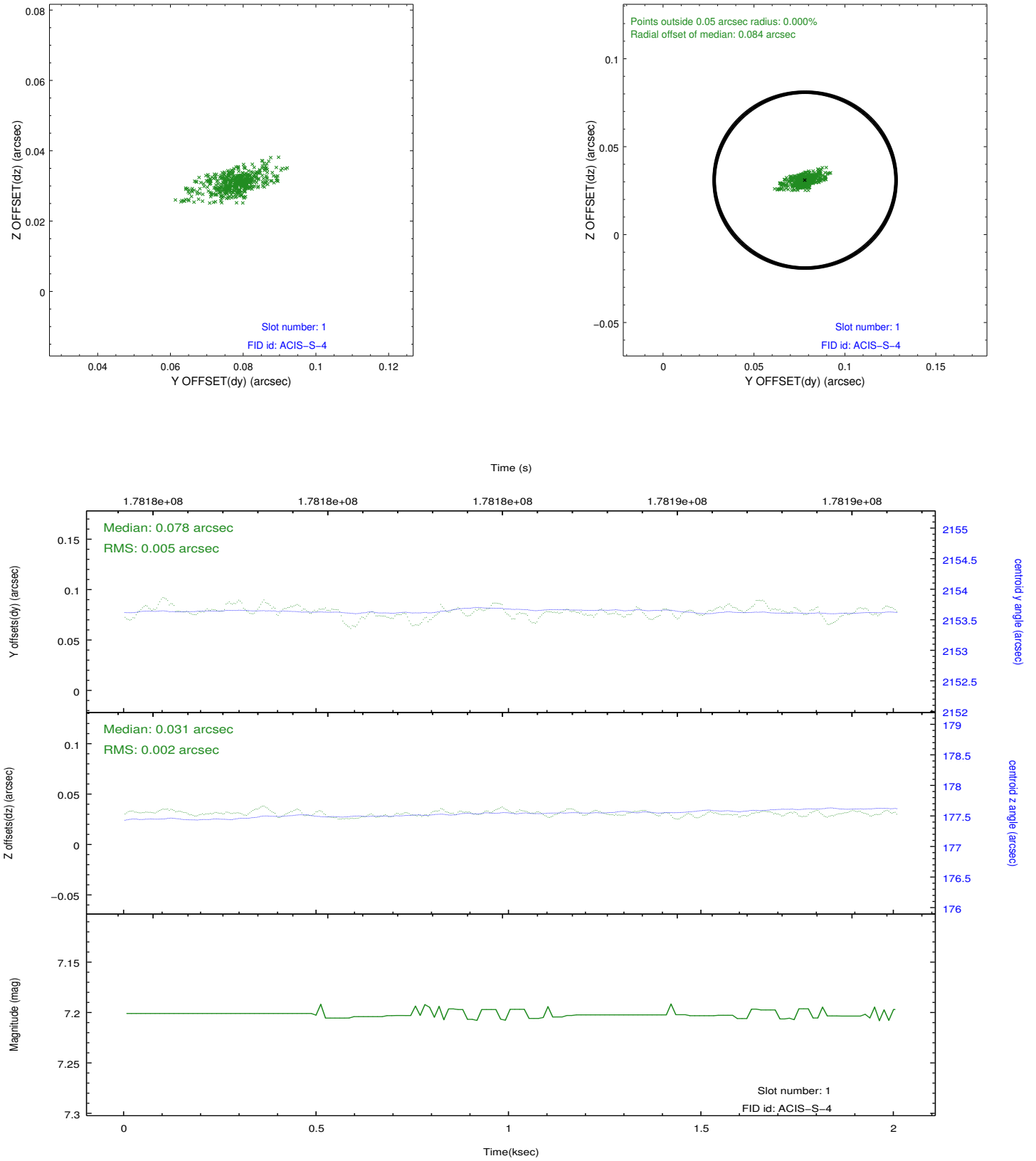


## 2.5 FID Slots

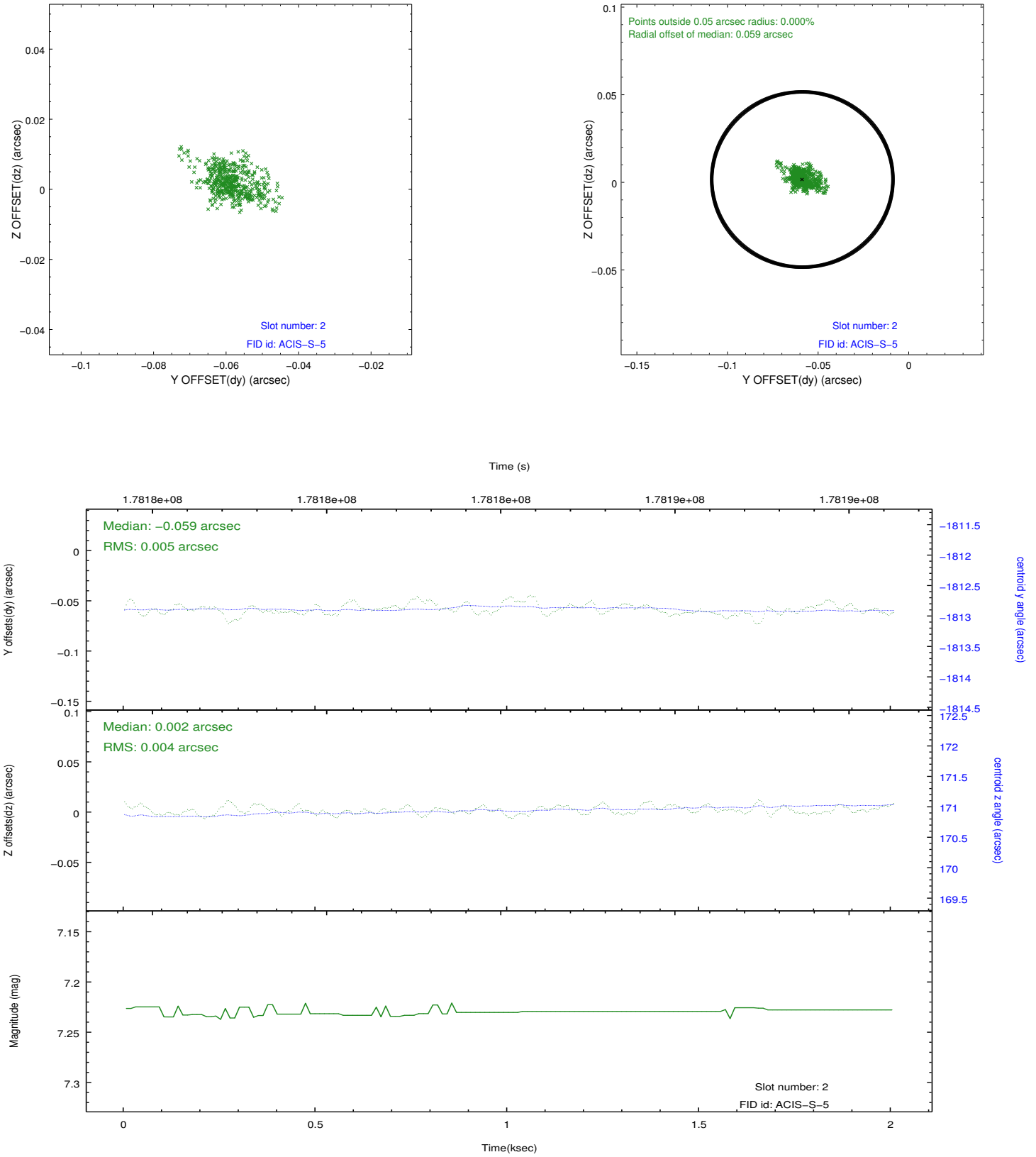
### 2.5.1 Slot 0



## 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)	2012.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.58

### A.2 Comments