

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6758 - L2 Version 2  
Chandra X-Ray Center

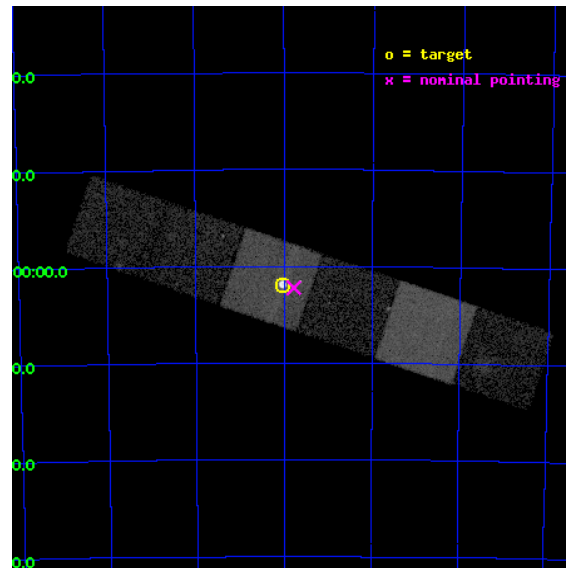
L2 Processing Date : Mar 28 2012

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# 1 Front

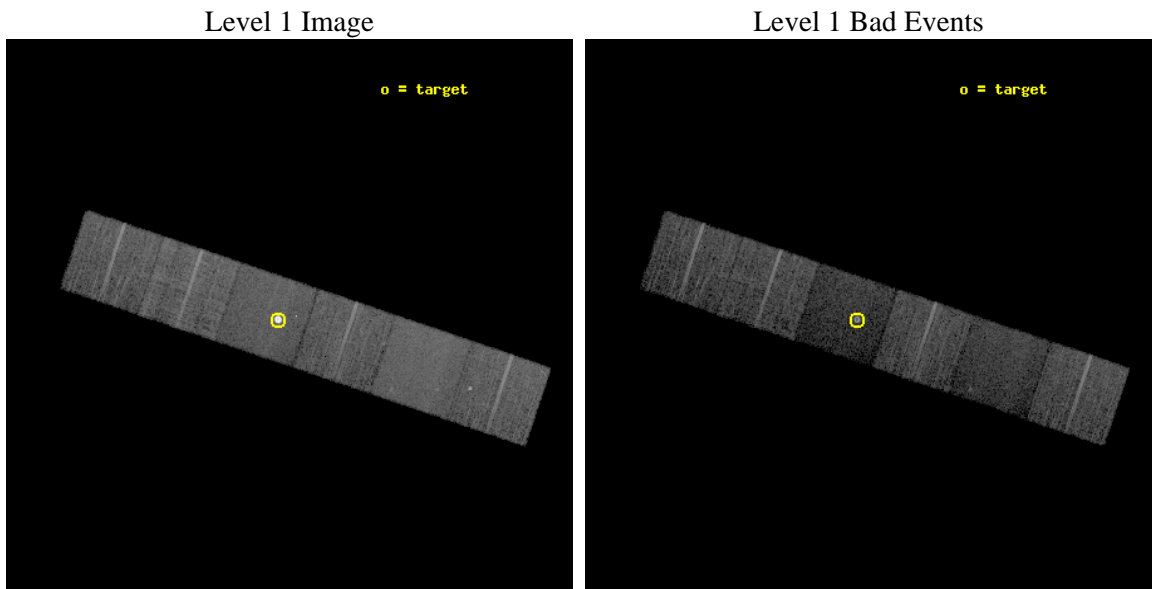
seq_num	590441	Sequence number
obs_id	6758	Observation id
title	AO7 ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S3,-120,1,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.944708504	Nominal RA [deg]
dec_nom	-72.037035835046	Nominal Dec [deg]
roll_nom	198.5558635535	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8163.1999695897	Sum of GTIs [s]
livetime	8059.8326162859	Livetime [s]
ontime4	8156.7180288732	Sum of GTIs [s]
ontime5	8163.1999695897	Sum of GTIs [s]
ontime6	8163.1999695897	Sum of GTIs [s]
ontime7	8163.1999695897	Sum of GTIs [s]
ontime8	8163.1999695897	Sum of GTIs [s]
ontime9	8163.1999695897	Sum of GTIs [s]
l2events	133981	Number of level 2 events



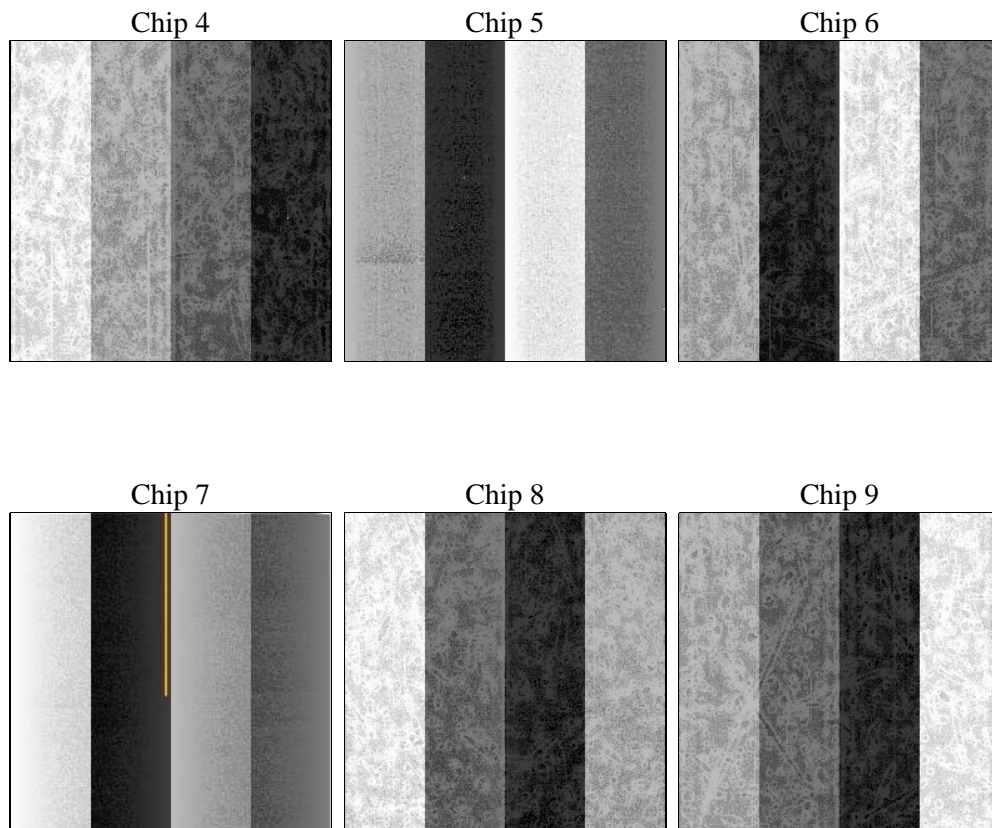
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	8163.1999695897	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	8156.7180288732	Sum of GTIs [s]
date	2012-03-28T05:43:44	Date and time of file creation	ontime5	8163.1999695897	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8163.1999695897	Sum of GTIs [s]
			ontime7	8163.1999695897	Sum of GTIs [s]
			ontime8	8163.1999695897	Sum of GTIs [s]
			ontime9	8163.1999695897	Sum of GTIs [s]
			l1events	419643	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	63744	66726	56903	108541	68711	55018	grade 0 events	3290	2697	2398	22884	4685	2012
rejected events	56961	31993	50894	27731	51867	49438		5%	4%	4%	21%	6%	3%
rejected %	89%	47%	89%	25%	75%	89%	grade 1 events	75	70	31	408	56	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	1388	10666	1183	20089	4016	1188
								2%	15%	2%	18%	5%	2%
							grade 3 events	673	1804	640	9118	1814	642
								1%	2%	1%	8%	2%	1%
							grade 4 events	608	1612	651	9152	1639	598
								0%	2%	1%	8%	2%	1%
							grade 5 events	1798	5516	1928	6619	2757	2084
								2%	8%	3%	6%	4%	3%
							grade 6 events	833	18013	1149	19738	4724	1145
								1%	26%	2%	18%	6%	2%
							grade 7 events	55079	26348	48923	20533	49020	47323
								86%	39%	85%	18%	71%	86%

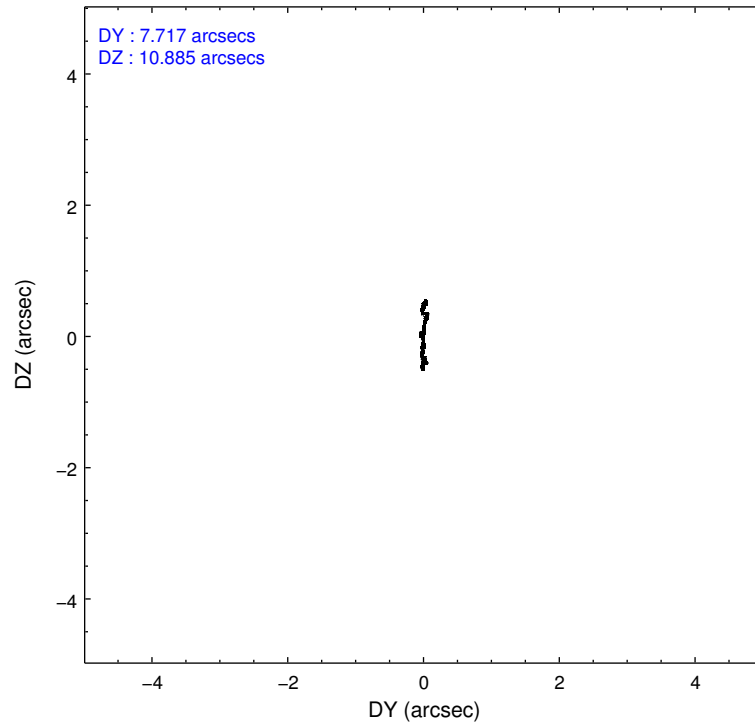
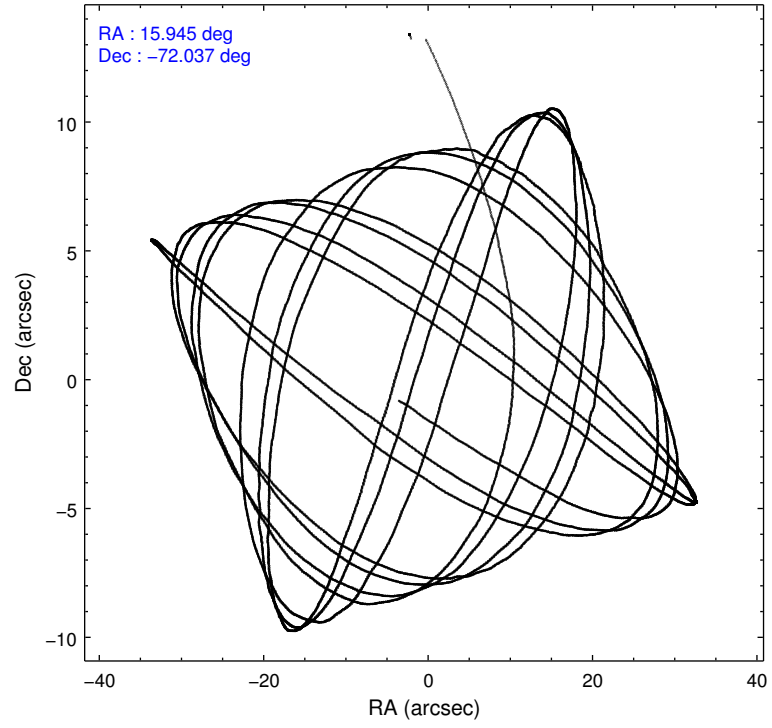


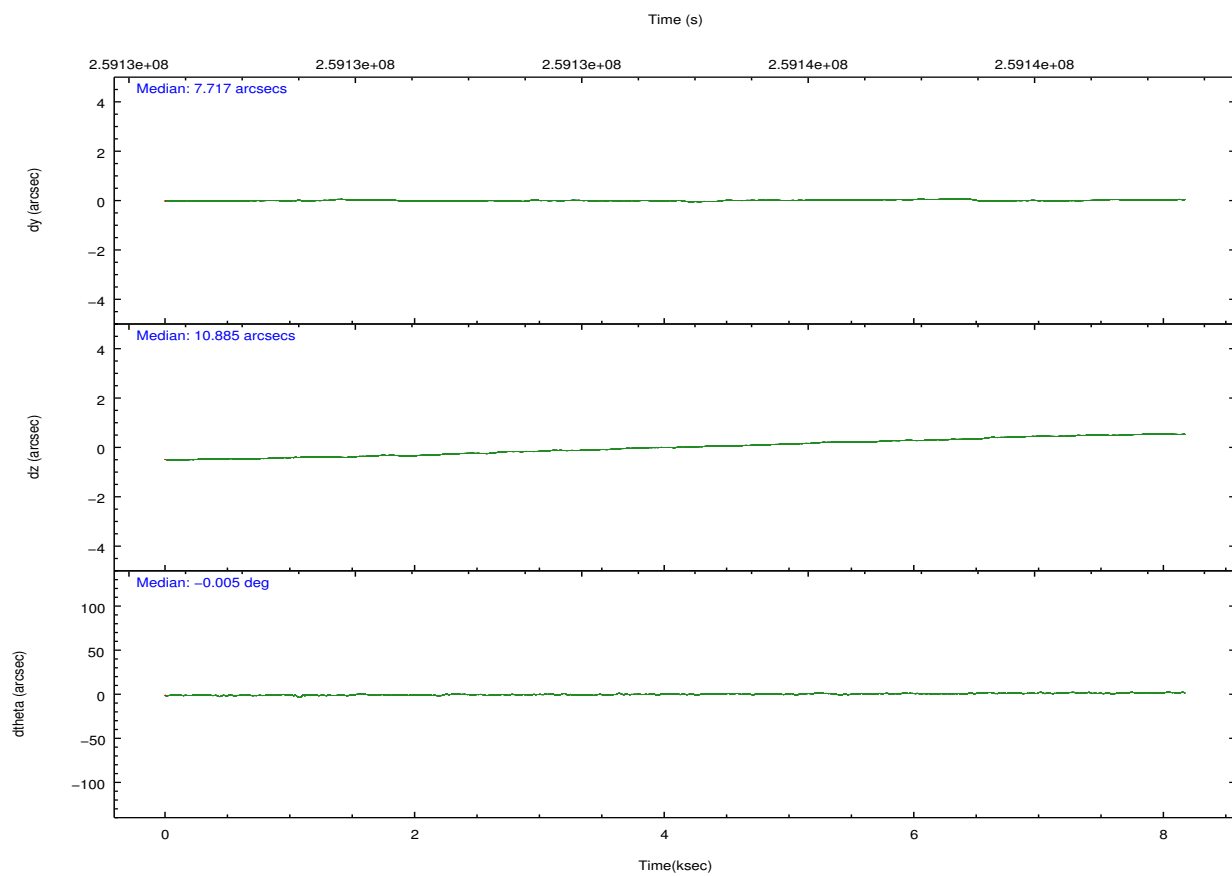
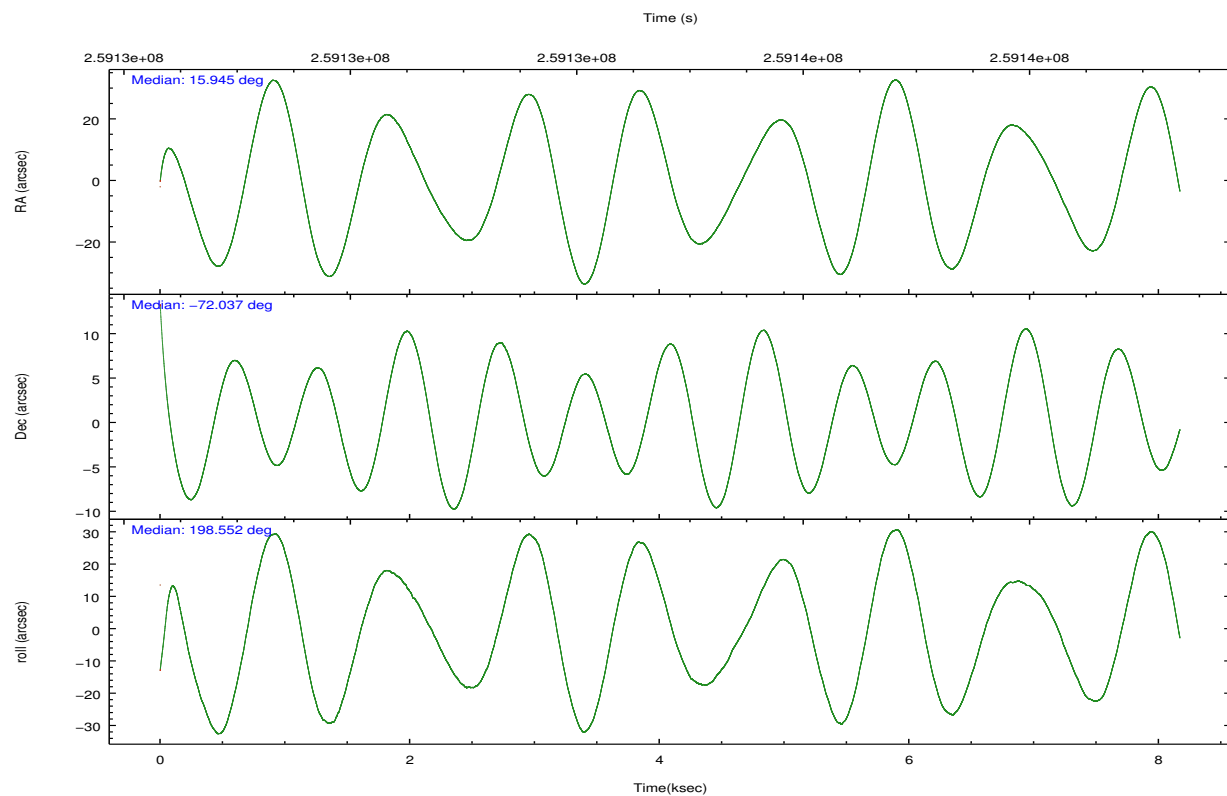
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.002133	15.94470850400019
[deg] Pointing Dec	-72.016336	-72.03703583504563
[deg] Pointing Roll	198.453886	198.5558635535045
[s] Window start time (MET)	247190464.184000	247190464.184000
[s] Window stop time (MET)	260150465.184000	260150465.184000
[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)	259130908.184000	259129837.48802
Observation start date	2006-03-19T04:47:23	2006-03-19T04:30:37
[s] Observation end time (MET)	259138908.184000	259139042.50095
Observation end date	2006-03-19T07:00:43	2006-03-19T07:04:02
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



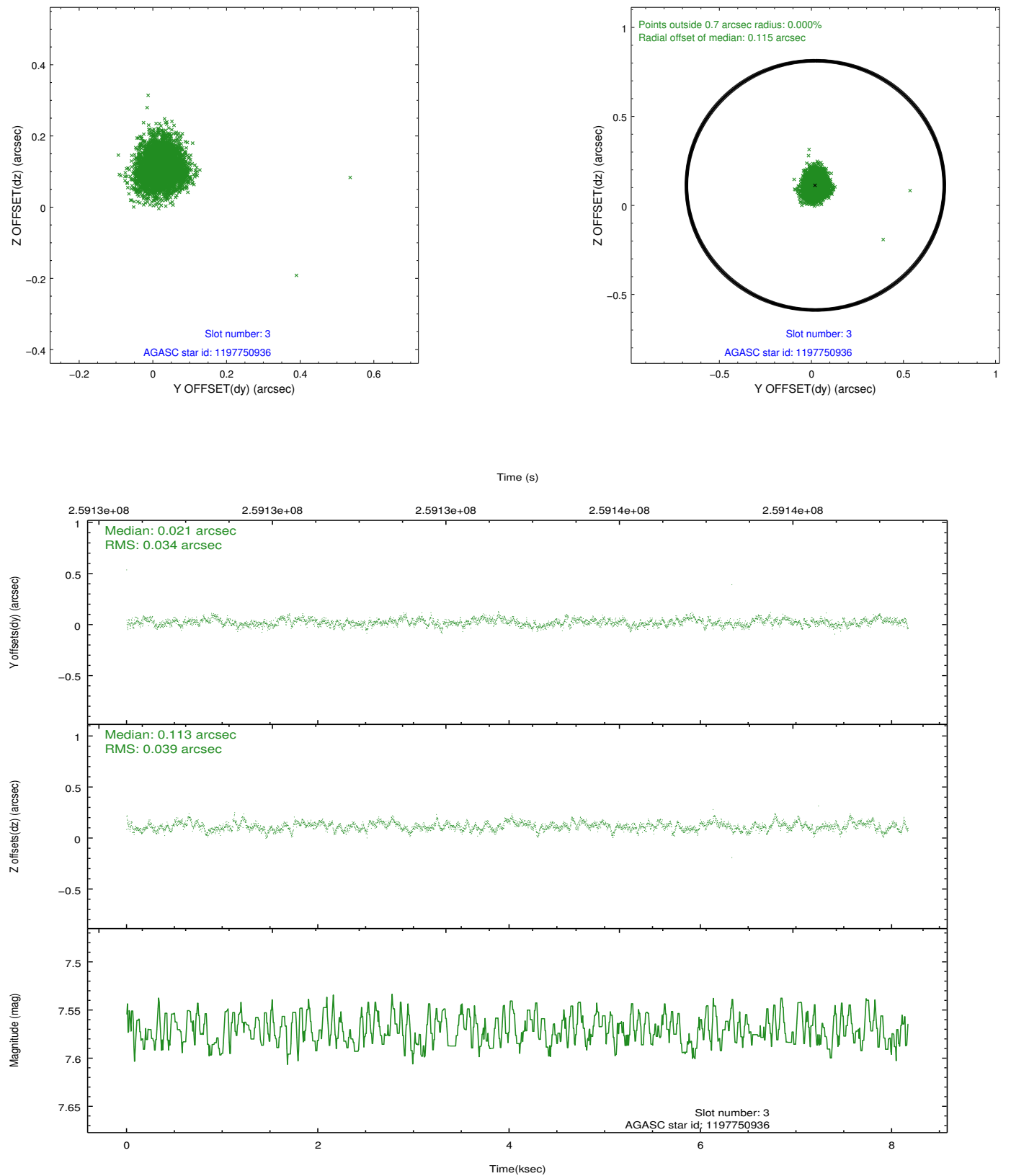


### Slot Statistics

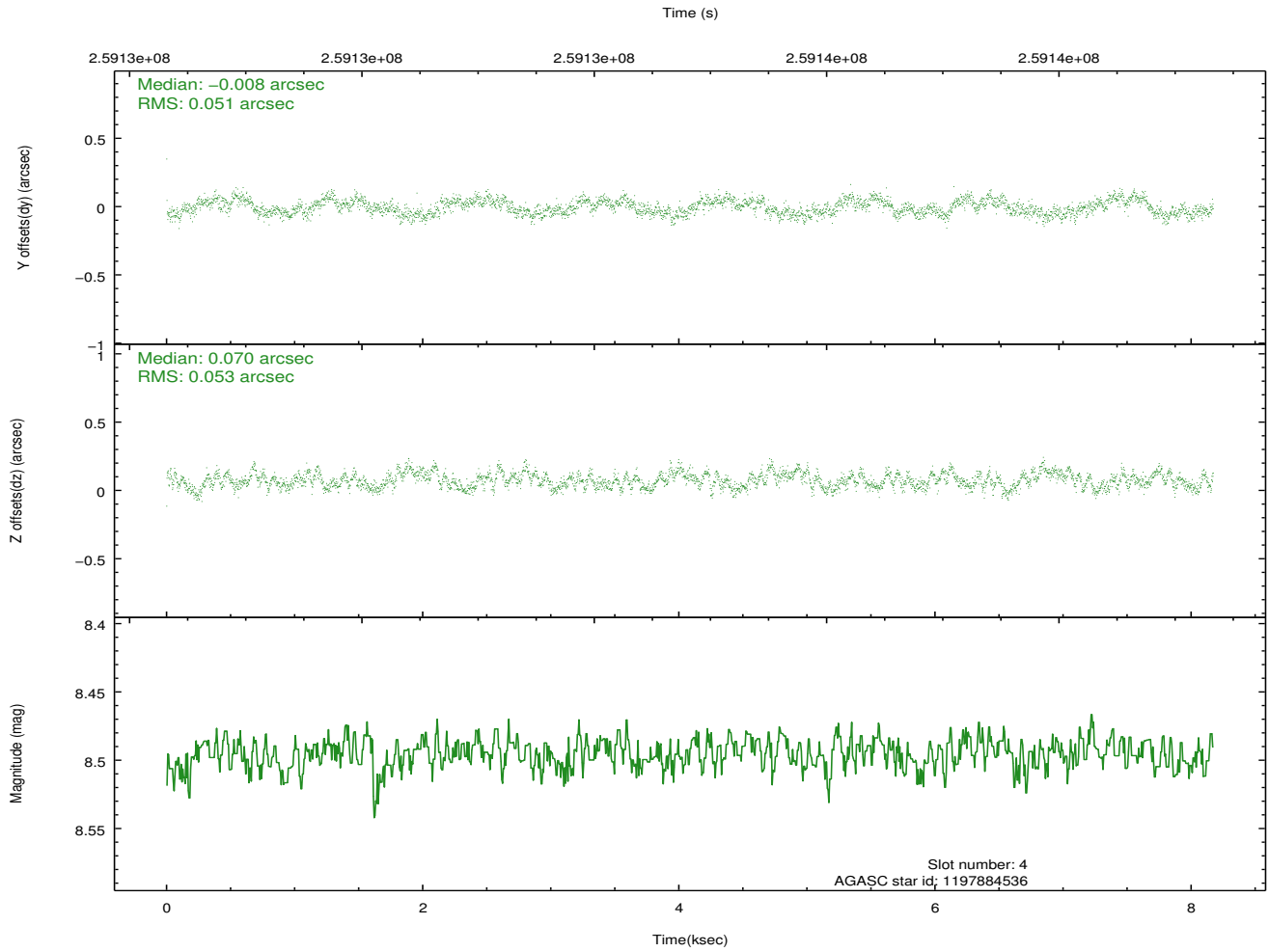
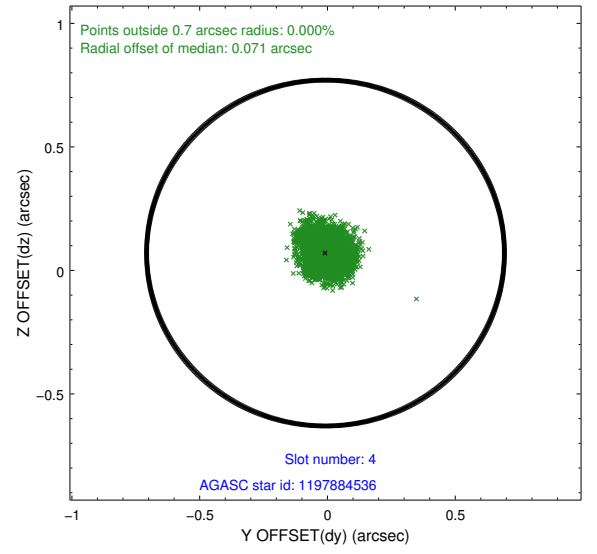
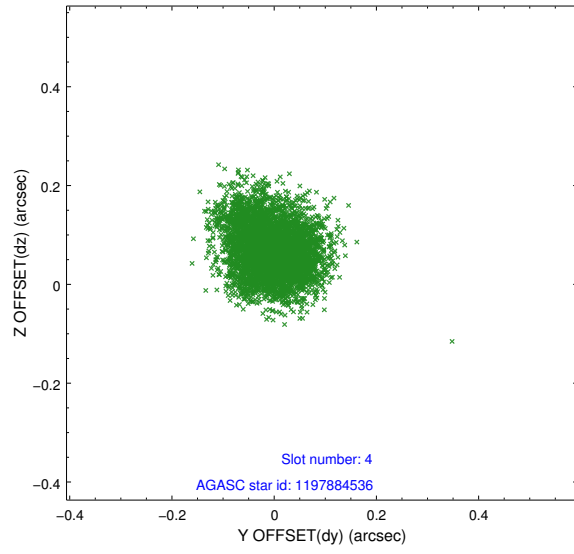
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1994	-0.044	-0.018	0.009	0.015	0.000000	0.000000	-760.50	-1732.20
1	FID	ACIS-S-4	7.21	1994	0.114	0.026	0.009	0.014	0.000000	0.000000	2152.59	175.68
2	FID	ACIS-S-5	7.23	1994	-0.102	0.001	0.008	0.014	0.000000	0.000000	-1812.56	170.03
3	GUIDE	1197750936	7.57	3987	0.021	0.113	0.054	0.087	15.387940	-71.549550	133.36	-1811.58
4	GUIDE	1197884536	8.50	3985	-0.008	0.070	0.080	0.122	17.160729	-71.835289	-1435.47	-195.15
5	GUIDE	1197884712	8.30	3987	-0.042	-0.011	0.064	0.106	16.087398	-72.252690	180.31	836.97
6	GUIDE	1197885104	9.34	3971	0.223	-0.049	0.113	0.181	17.845067	-72.189368	-1716.97	1263.13
7	GUIDE	1198189696	7.35	3986	-0.195	-0.125	0.069	0.108	15.223750	-72.697522	1567.88	2068.11

## 2.4 Star Slots

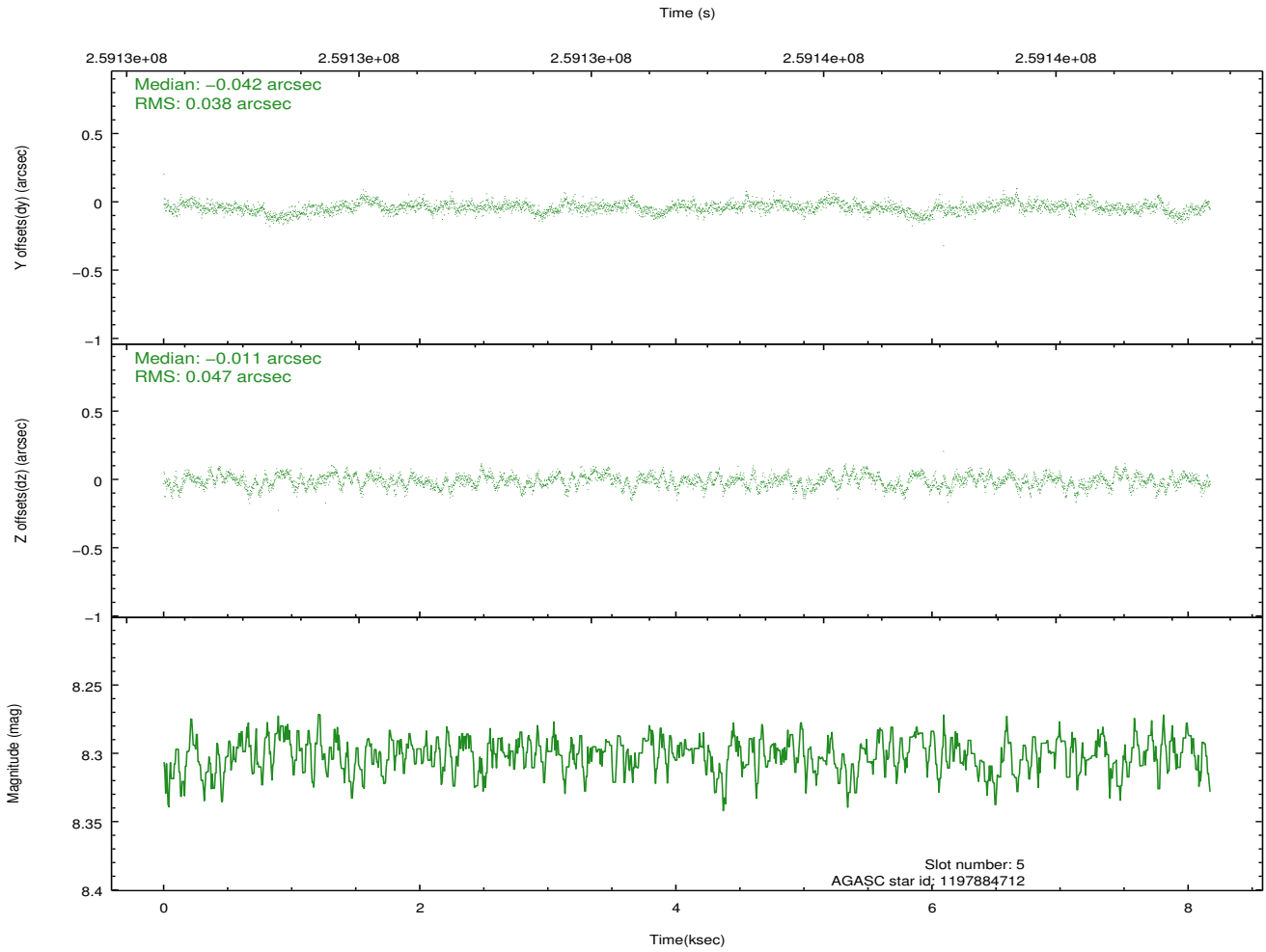
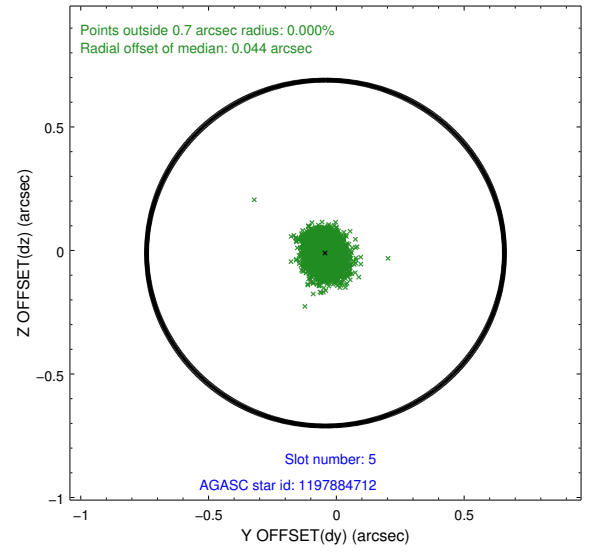
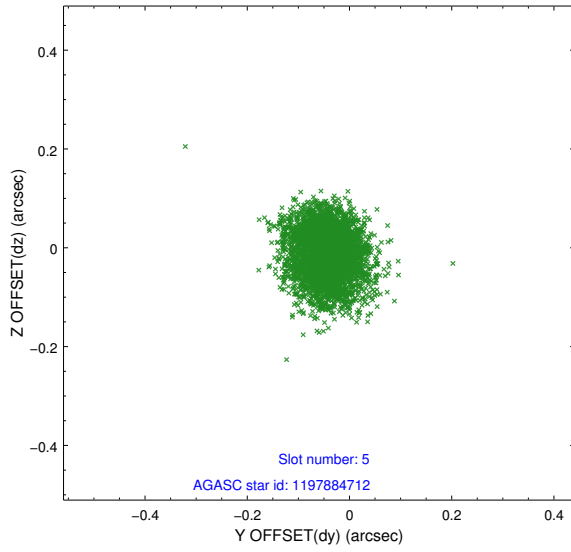
### 2.4.1 Slot 3



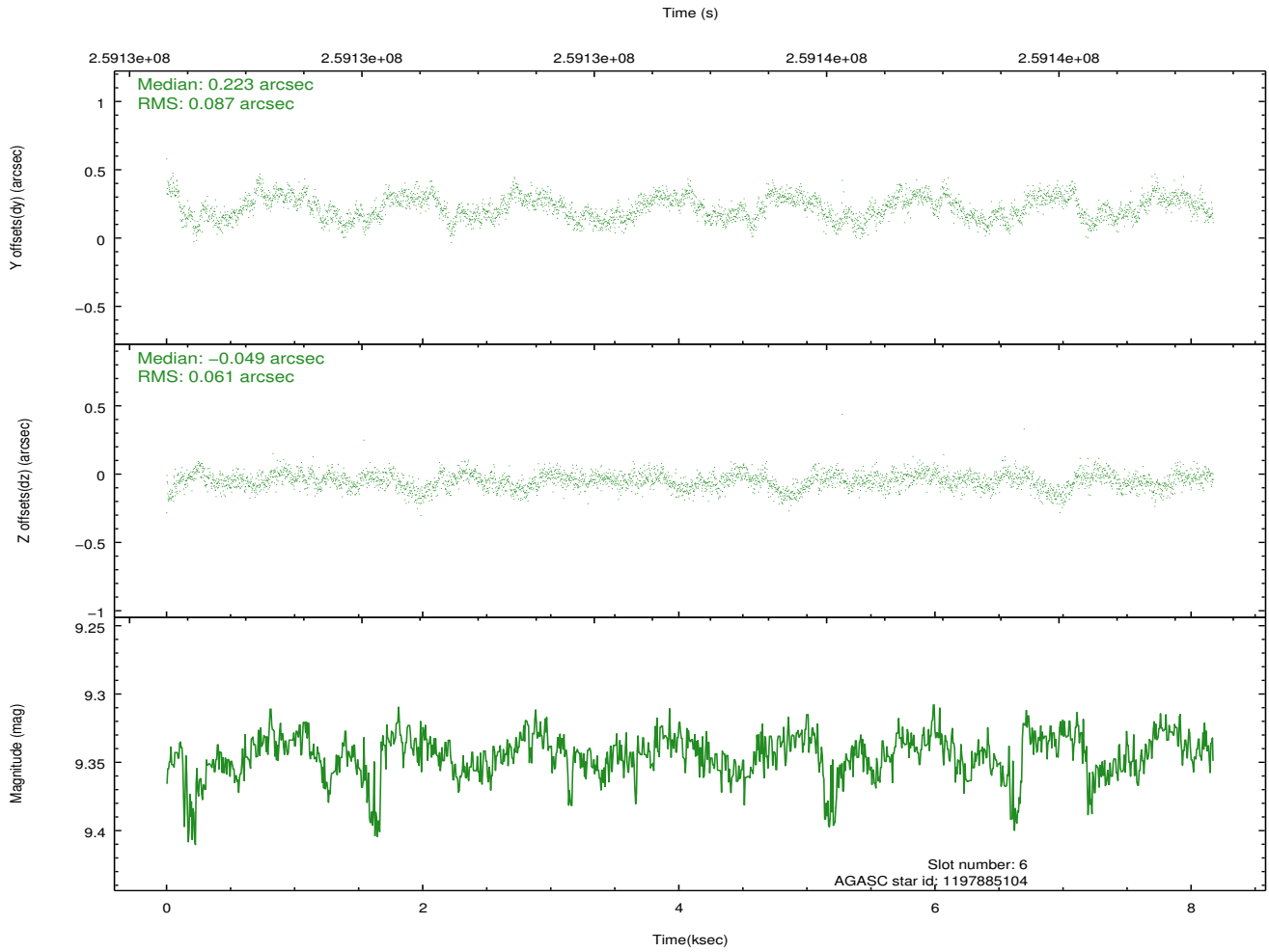
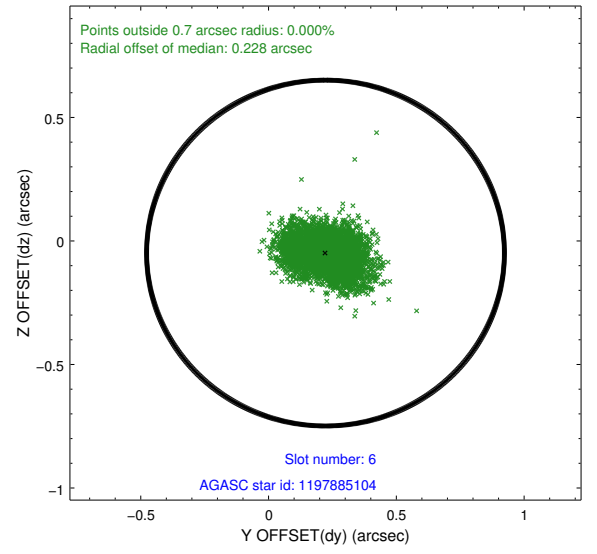
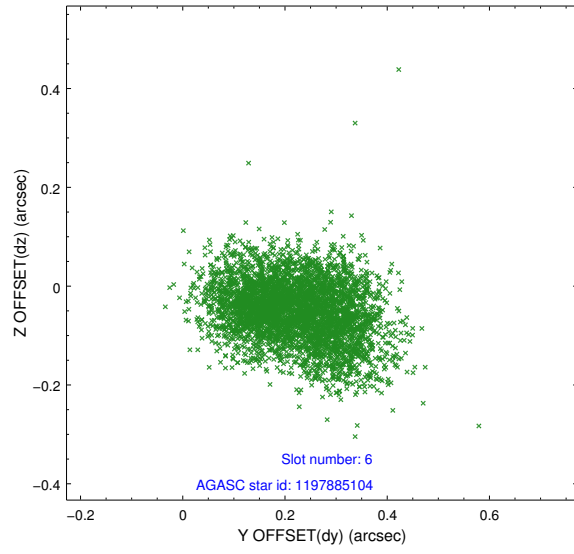
## 2.4.2 Slot 4



### 2.4.3 Slot 5

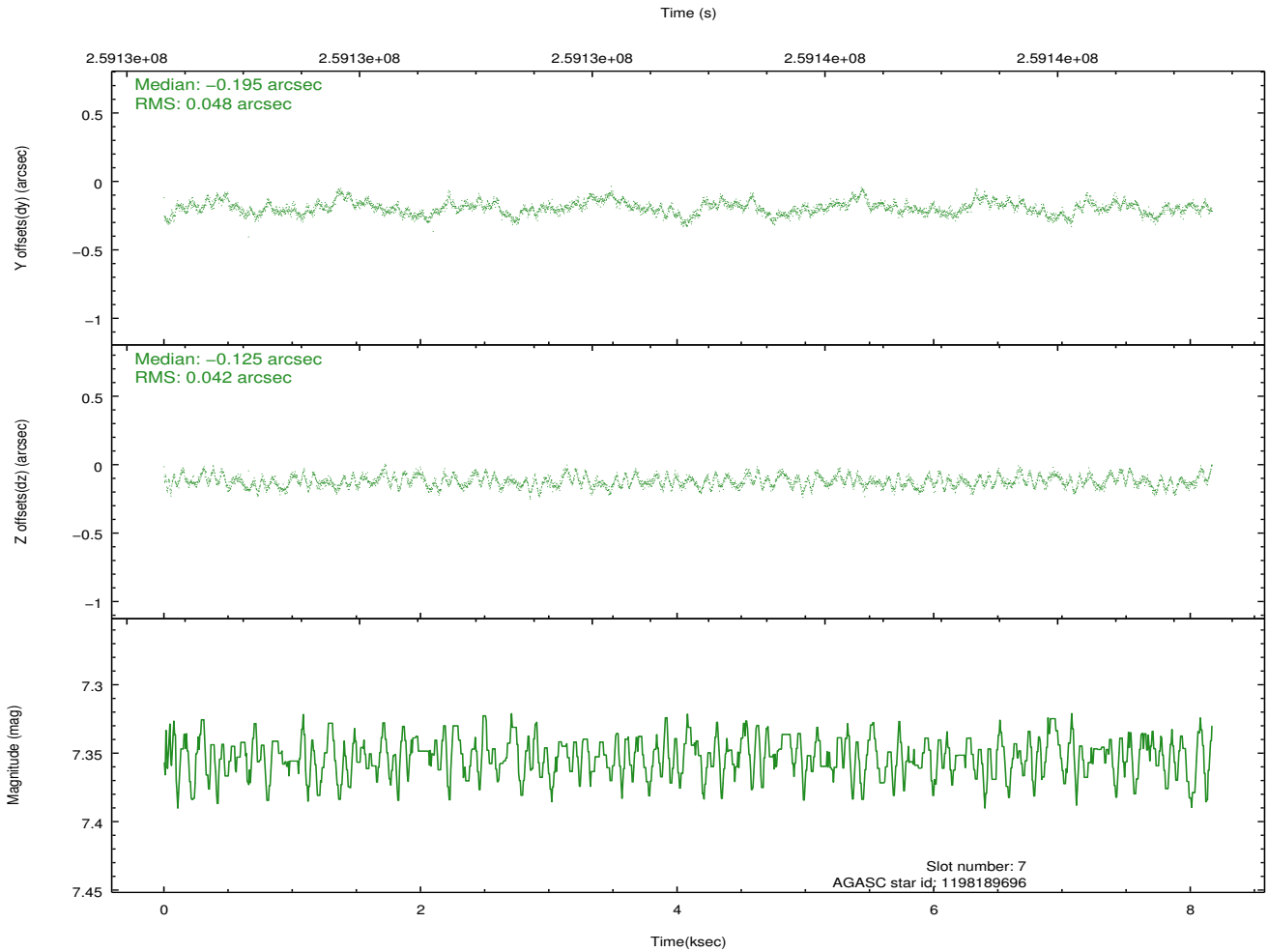
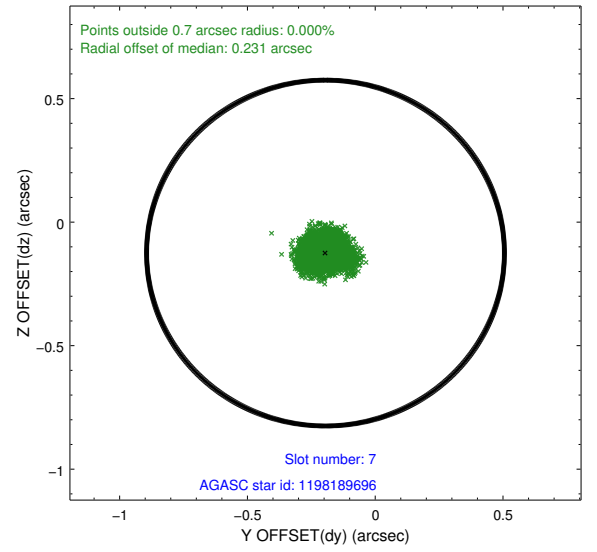
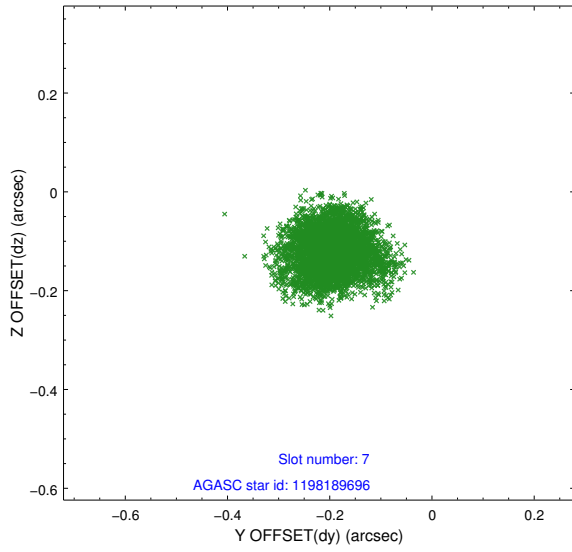


## 2.4.4 Slot 6



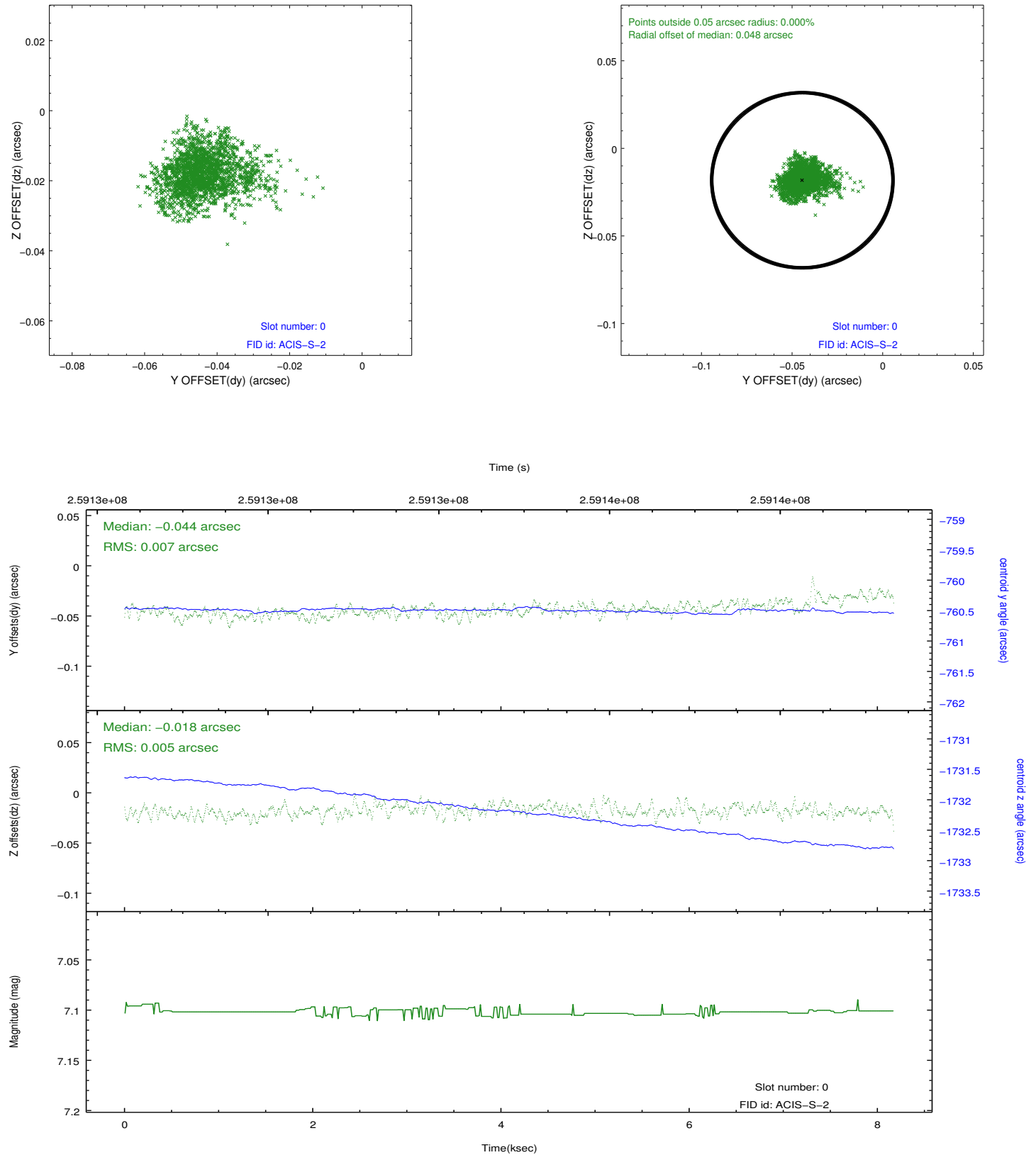


## 2.4.5 Slot 7

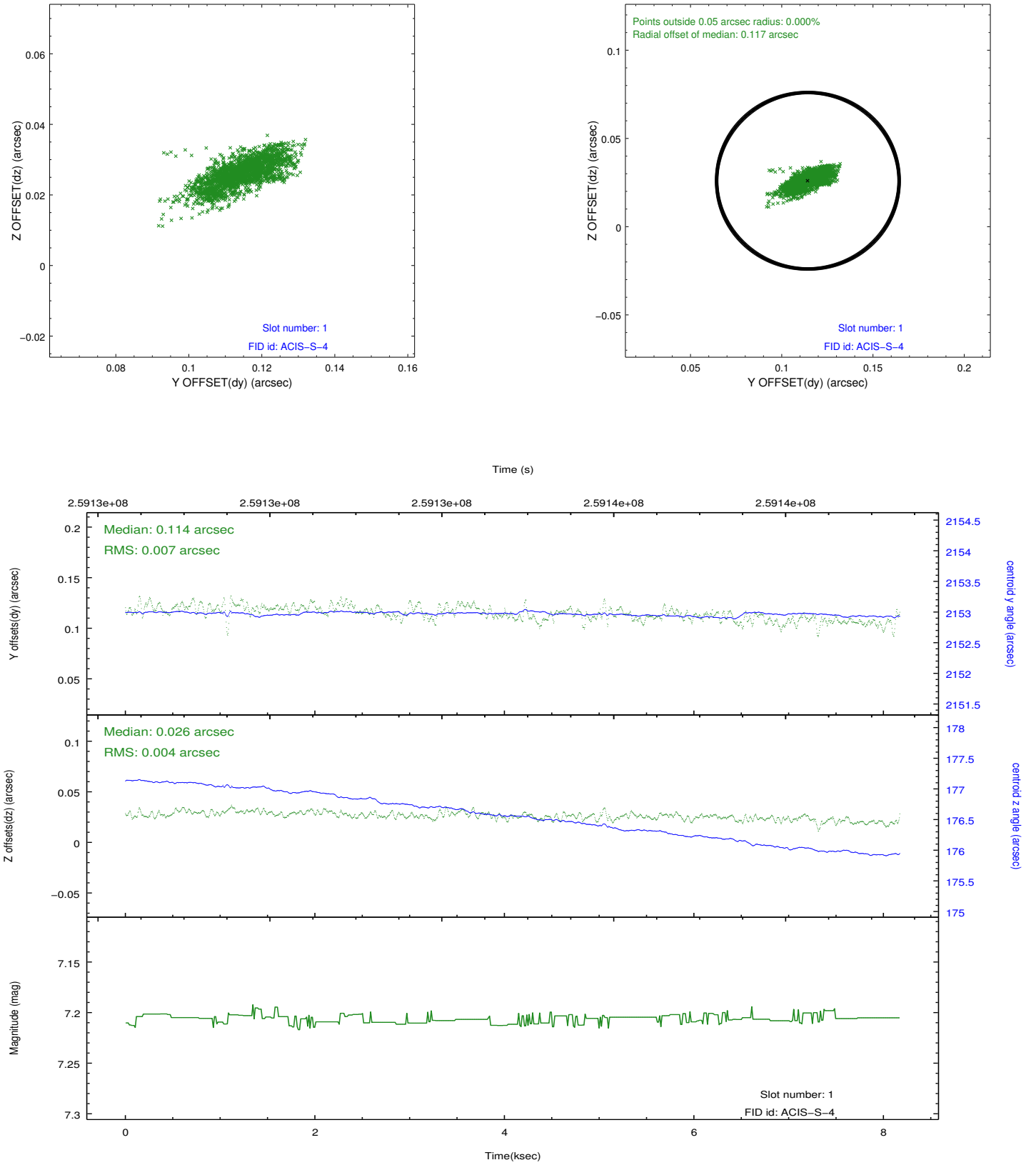


## 2.5 FID Slots

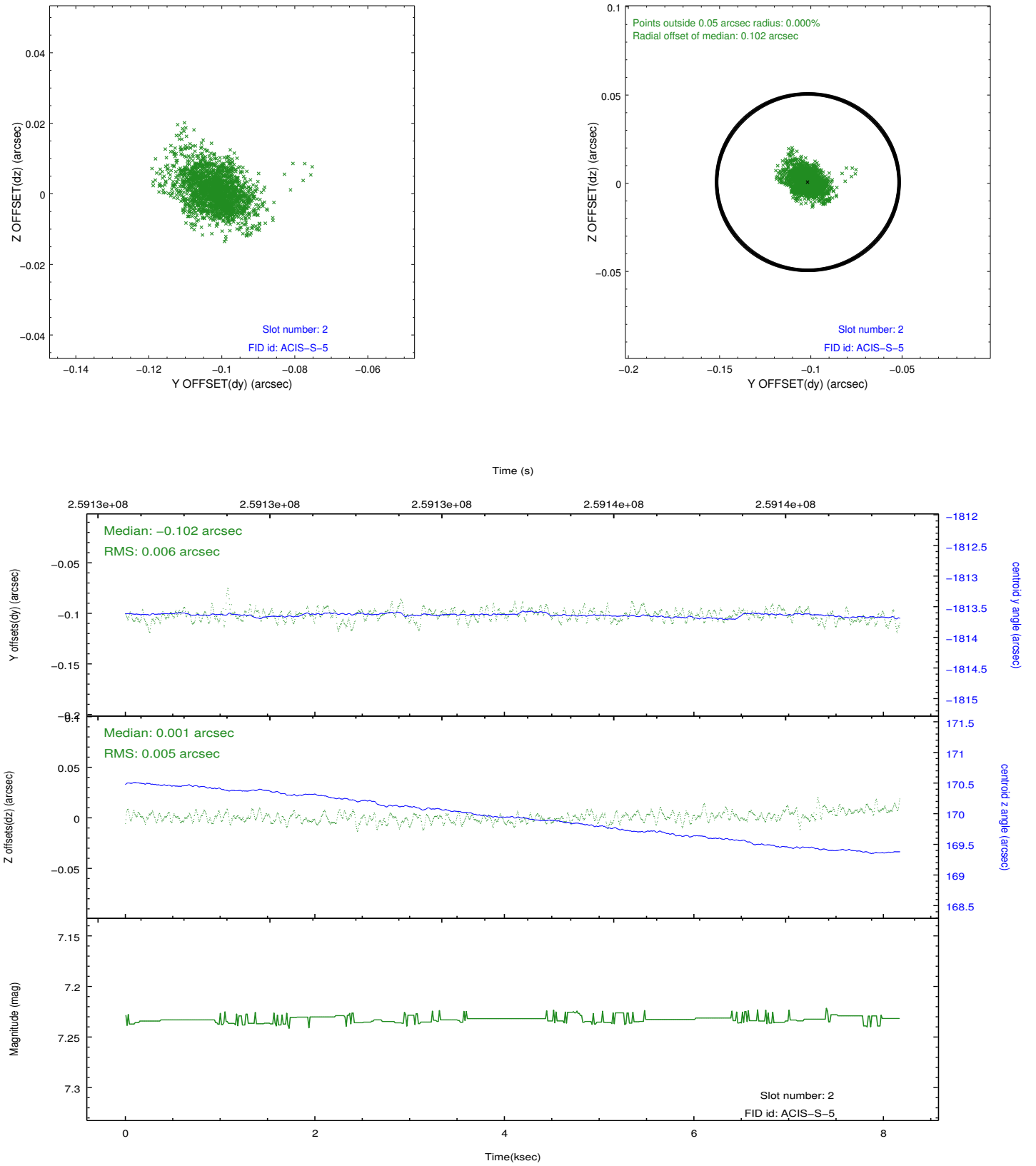
### 2.5.1 Slot 0



## 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)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.16319996

### A.2 Comments

Window constraint met.