

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5595 - L2 Version 4  
Chandra X-Ray Center

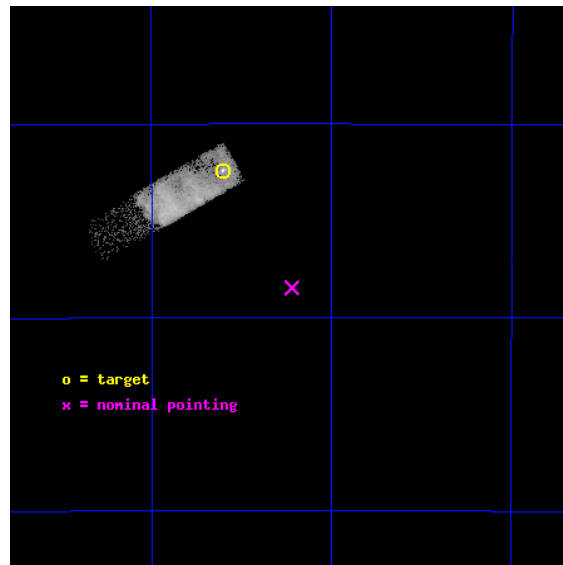
L2 Processing Date : Mar 7 2013

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# 1 Front

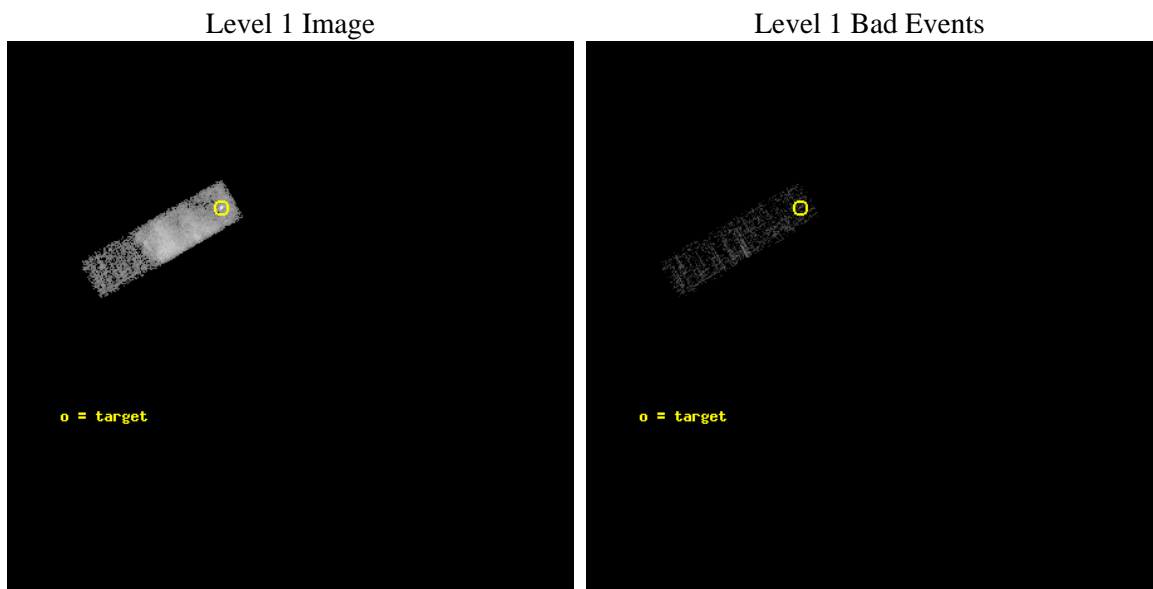
seq_num	500584	Sequence number
obs_id	5595	Observation id
title	Monitoring of the Central Object in RCW103	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RCW103	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.40125	Observer's specified target RA [deg]
dec_targ	-51.040278	Observer's specified target Dec [deg]
ra_nom	244.3054303861	Nominal RA [deg]
dec_nom	-51.141196540431	Nominal Dec [deg]
roll_nom	240.18643432464	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4684.800069809	Sum of GTIs [s]
livetime	4456.1971557205	Livetime [s]
ontime3	4684.800069809	Sum of GTIs [s]
l2events	26511	Number of level 2 events



## 2 OBI

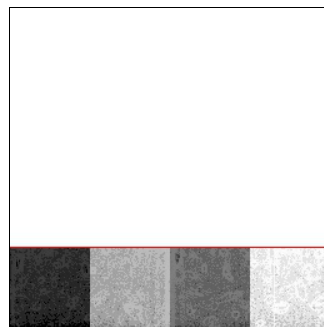
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4500.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	4684.800069809	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime3	4684.800069809	Sum of GTIs [s]
date	2013-03-07T12:20:49	Date and time of file creation	l1events	36880	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	36880
rejected events	9394
rejected %	25%

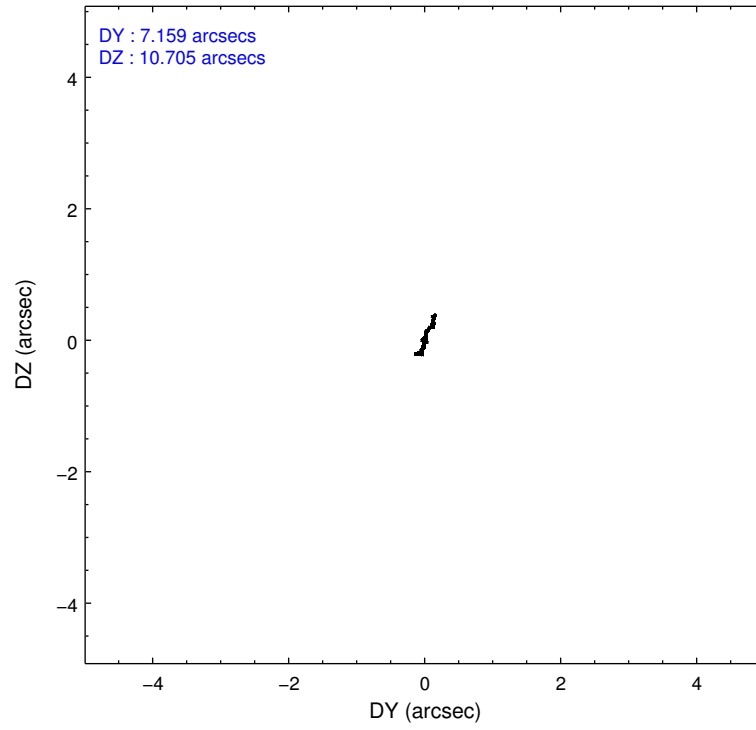
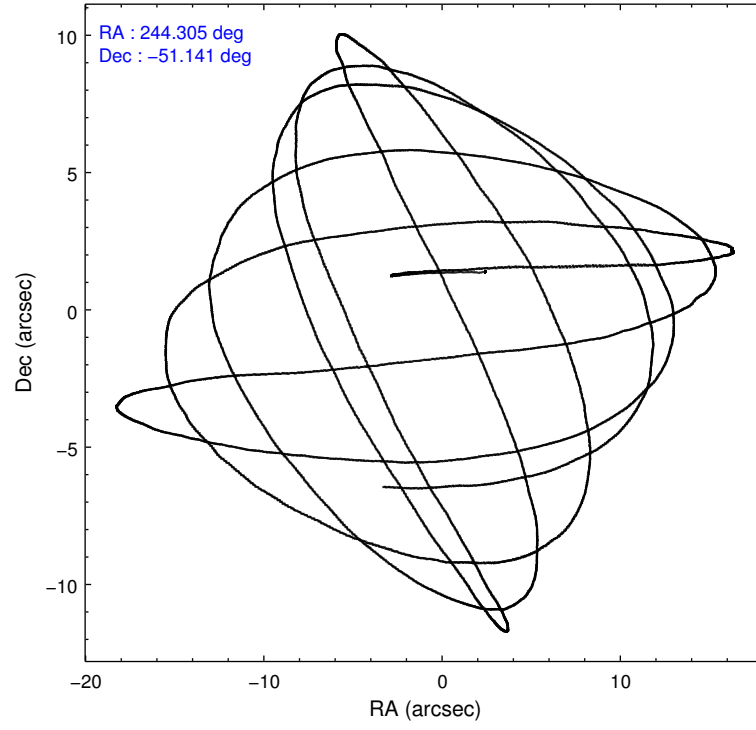
	<b>ccd 3</b>
grade 0 events	24085
	65%
grade 1 events	38
	0%
grade 2 events	2366
	6%
grade 3 events	740
	2%
grade 4 events	713
	1%
grade 5 events	179
	0%
grade 6 events	363
	0%
grade 7 events	8396
	22%

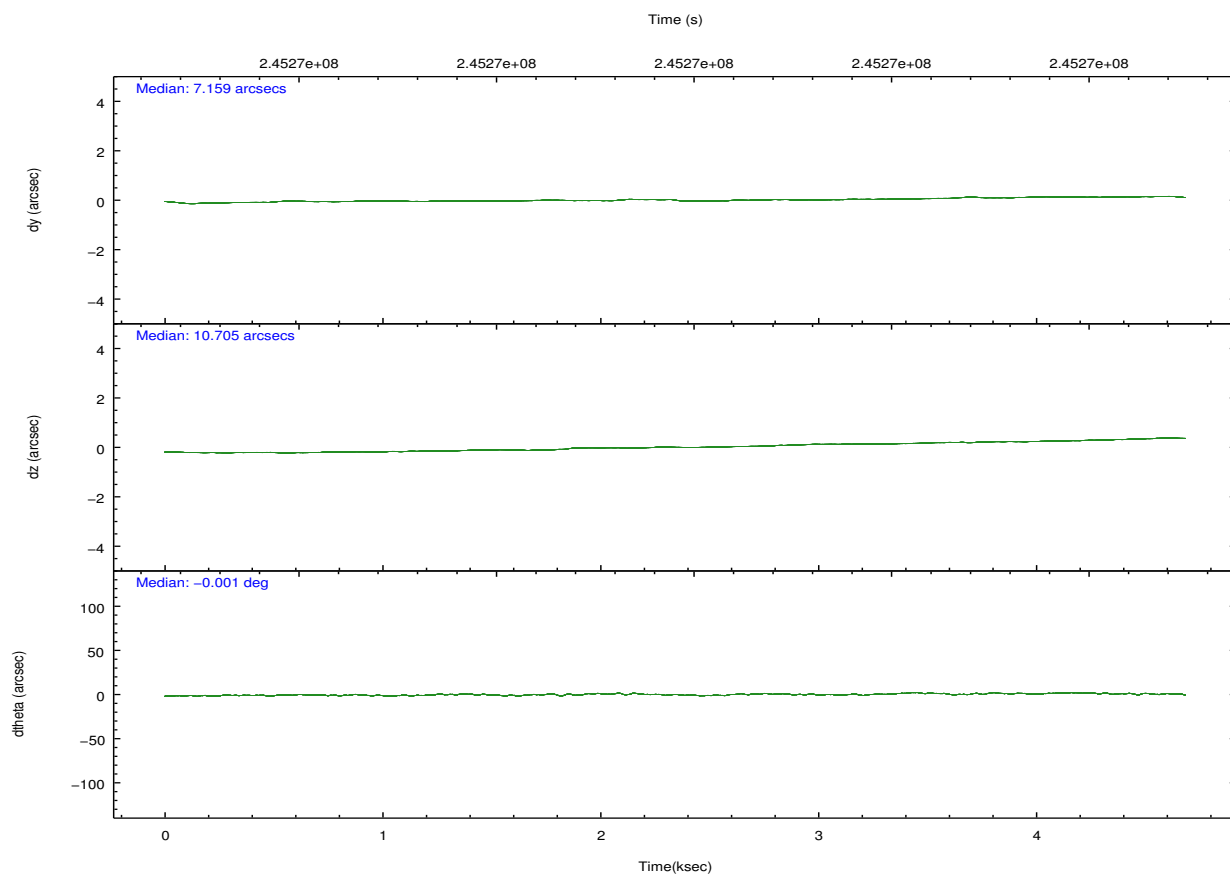
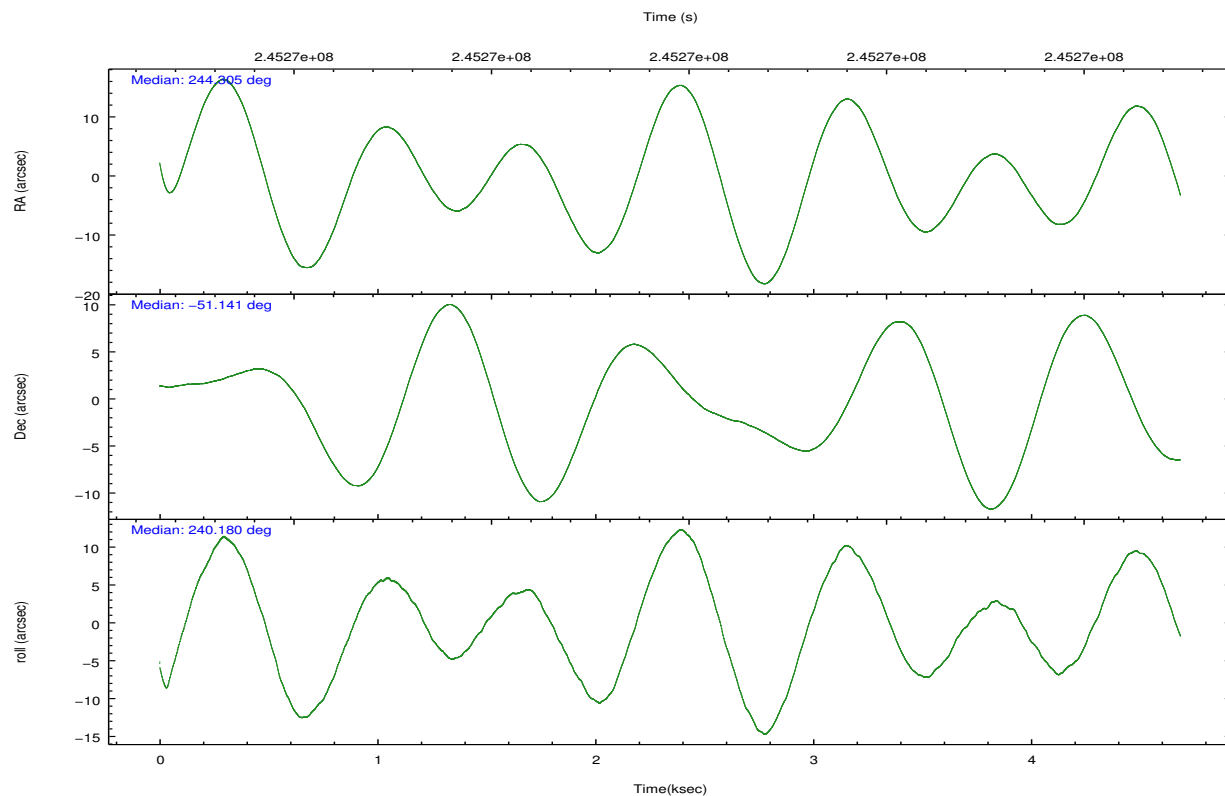


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	244.304878	244.3054303861028	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-51.113857	-51.14119654043122	Subarray start row	1	1
[deg] Pointing Roll	239.977336	240.1864343246432	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	245266743.184000	245265736.55868			
Observation start date	2005-10-09T17:37:59	2005-10-09T17:22:16			
[s] Observation end time (MET)	245271243.184000	245272194.05898			
Observation end date	2005-10-09T18:52:59	2005-10-09T19:09:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



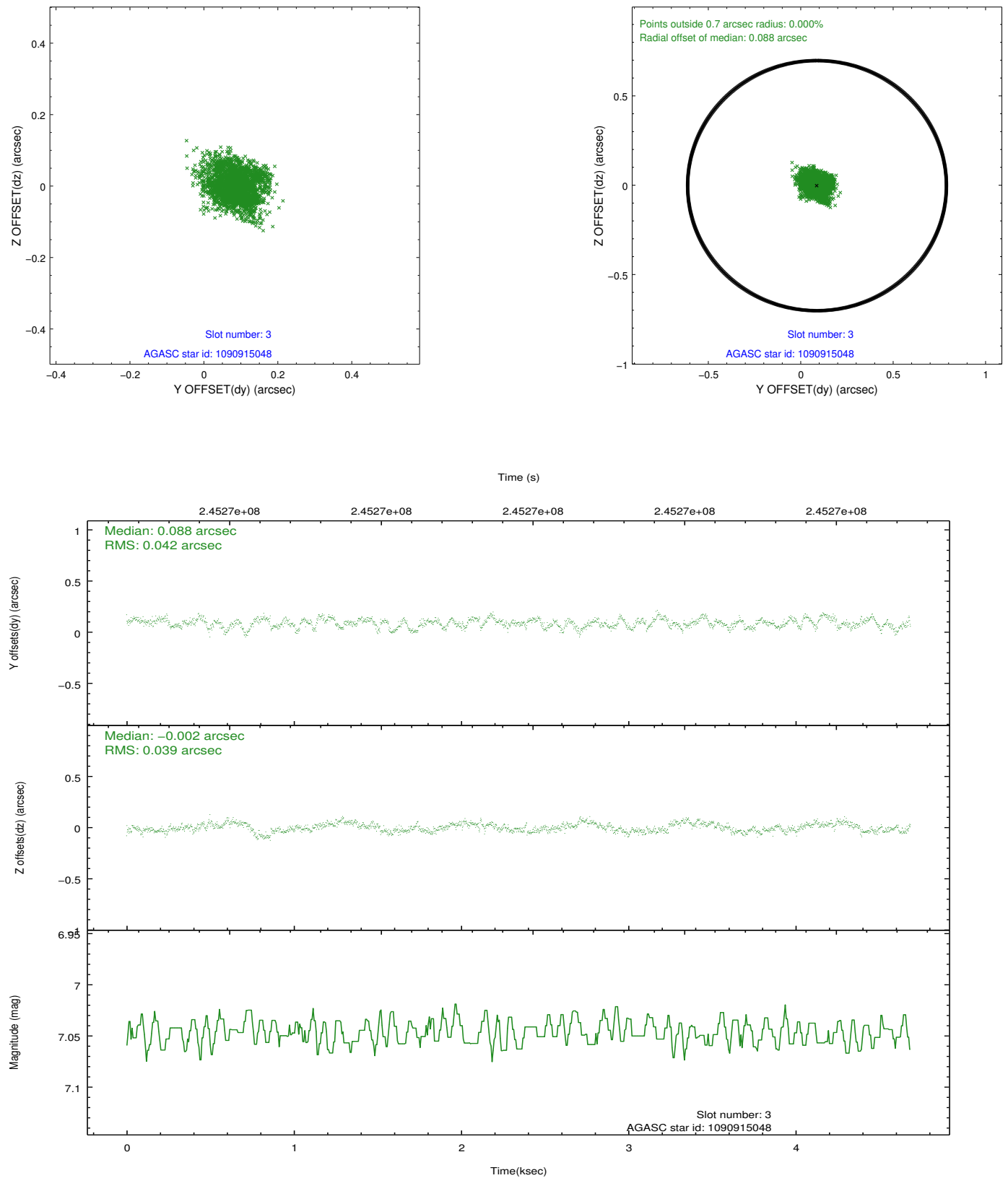


### Slot Statistics

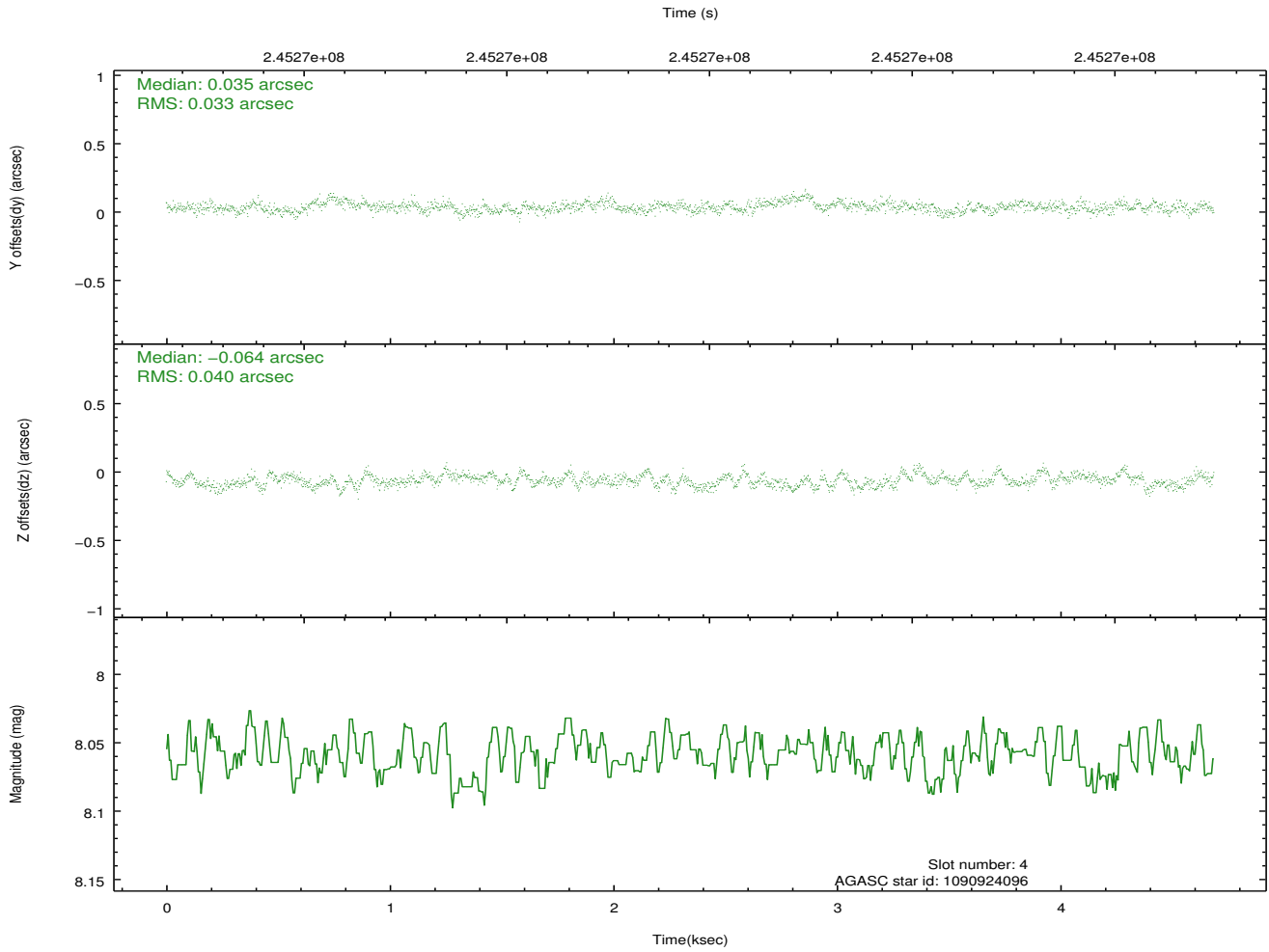
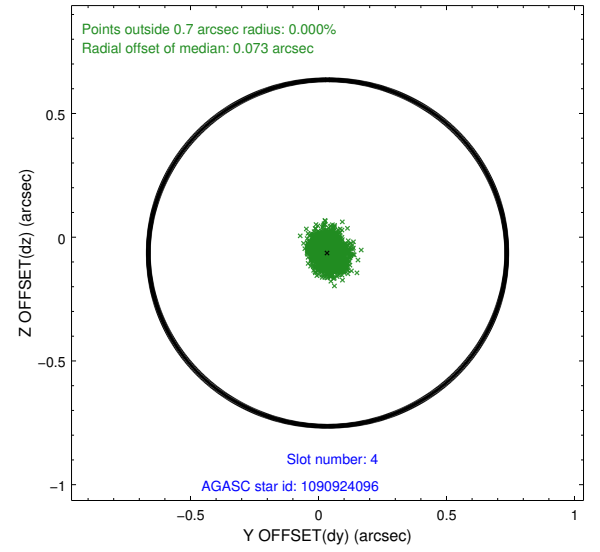
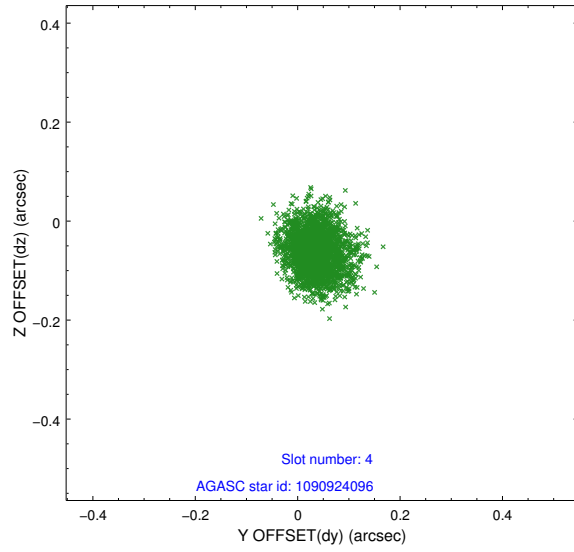
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1143	0.025	-0.012	0.013	0.021	0.000000	0.000000	932.52	-834.24
1	FID	ACIS-I-5	7.22	1143	-0.159	0.041	0.013	0.019	0.000000	0.000000	-1815.02	1062.68
2	FID	ACIS-I-6	7.25	1143	0.045	0.042	0.010	0.016	0.000000	0.000000	396.69	1708.64
3	GUIDE	1090915048	7.05	2287	0.088	-0.002	0.061	0.098	242.940674	-51.298495	2137.73	-2311.71
4	GUIDE	1090924096	8.06	2287	0.035	-0.064	0.056	0.090	243.849549	-51.016855	218.23	-1067.11
5	GUIDE	1090924384	8.06	2287	-0.037	-0.005	0.059	0.097	243.330505	-50.934017	559.44	-2231.28
6	GUIDE	1091059112	9.06	2287	-0.030	0.022	0.083	0.131	245.180420	-50.736664	-2162.59	1052.36
7	GUIDE	1090921280	9.09	2284	-0.057	0.048	0.070	0.113	244.365071	-50.638328	-1551.07	-737.29

## 2.4 Star Slots

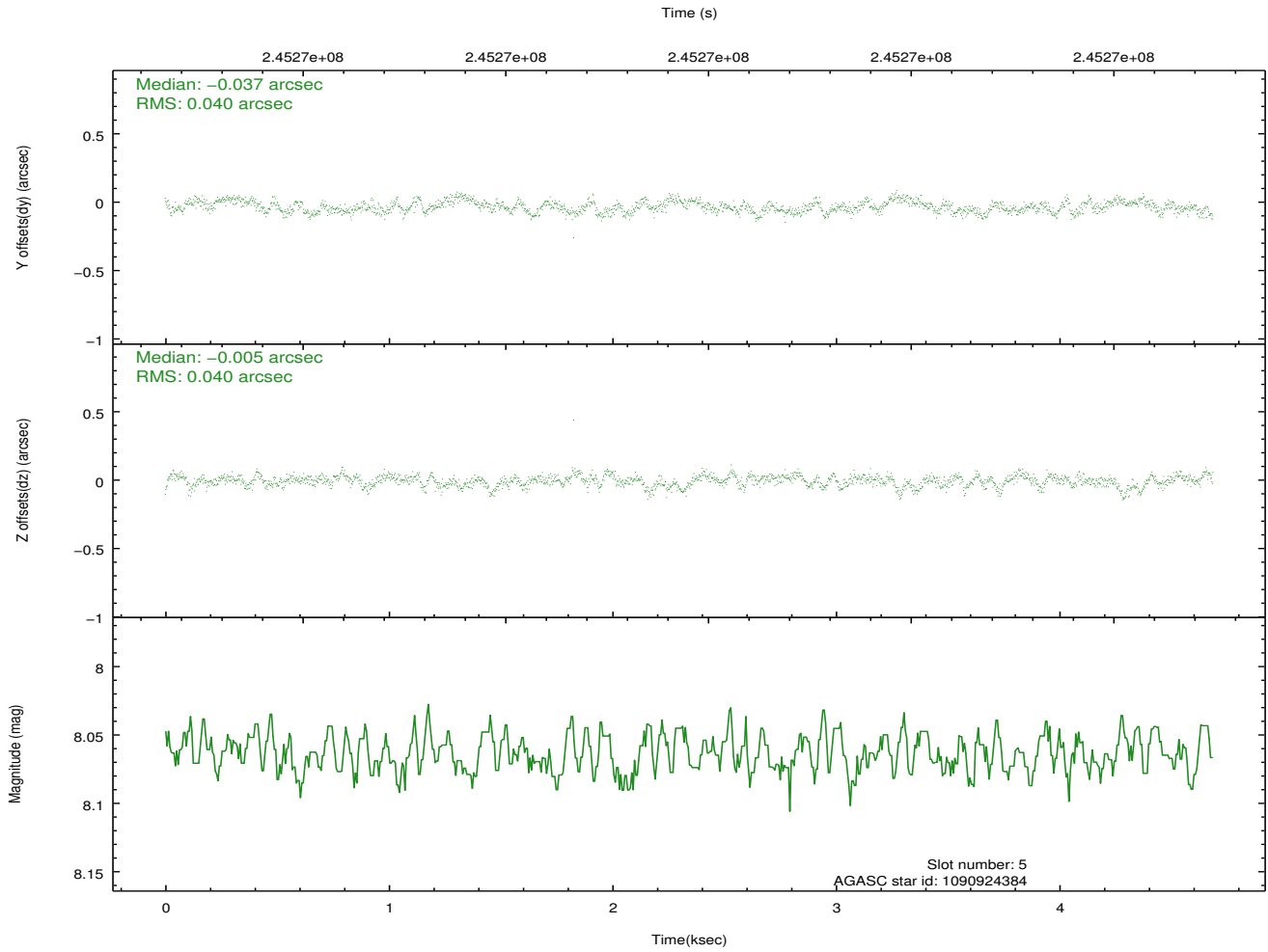
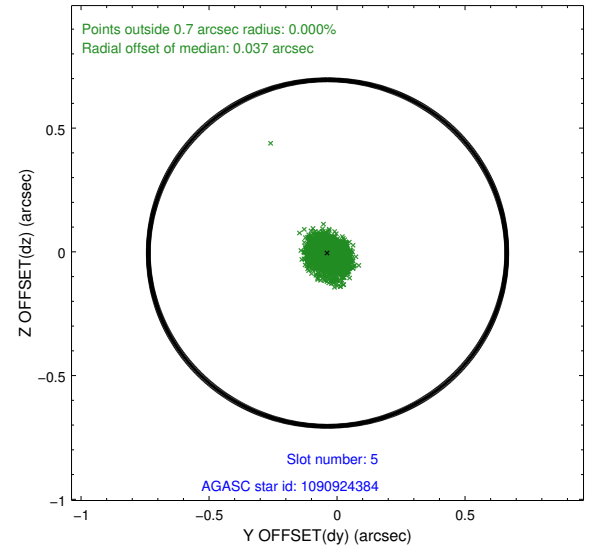
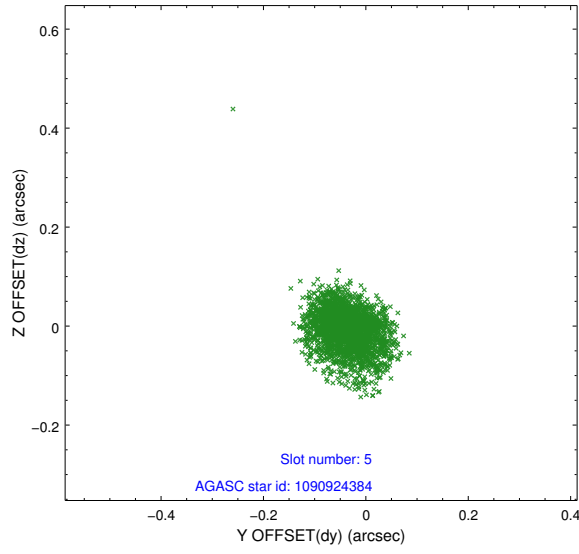
### 2.4.1 Slot 3



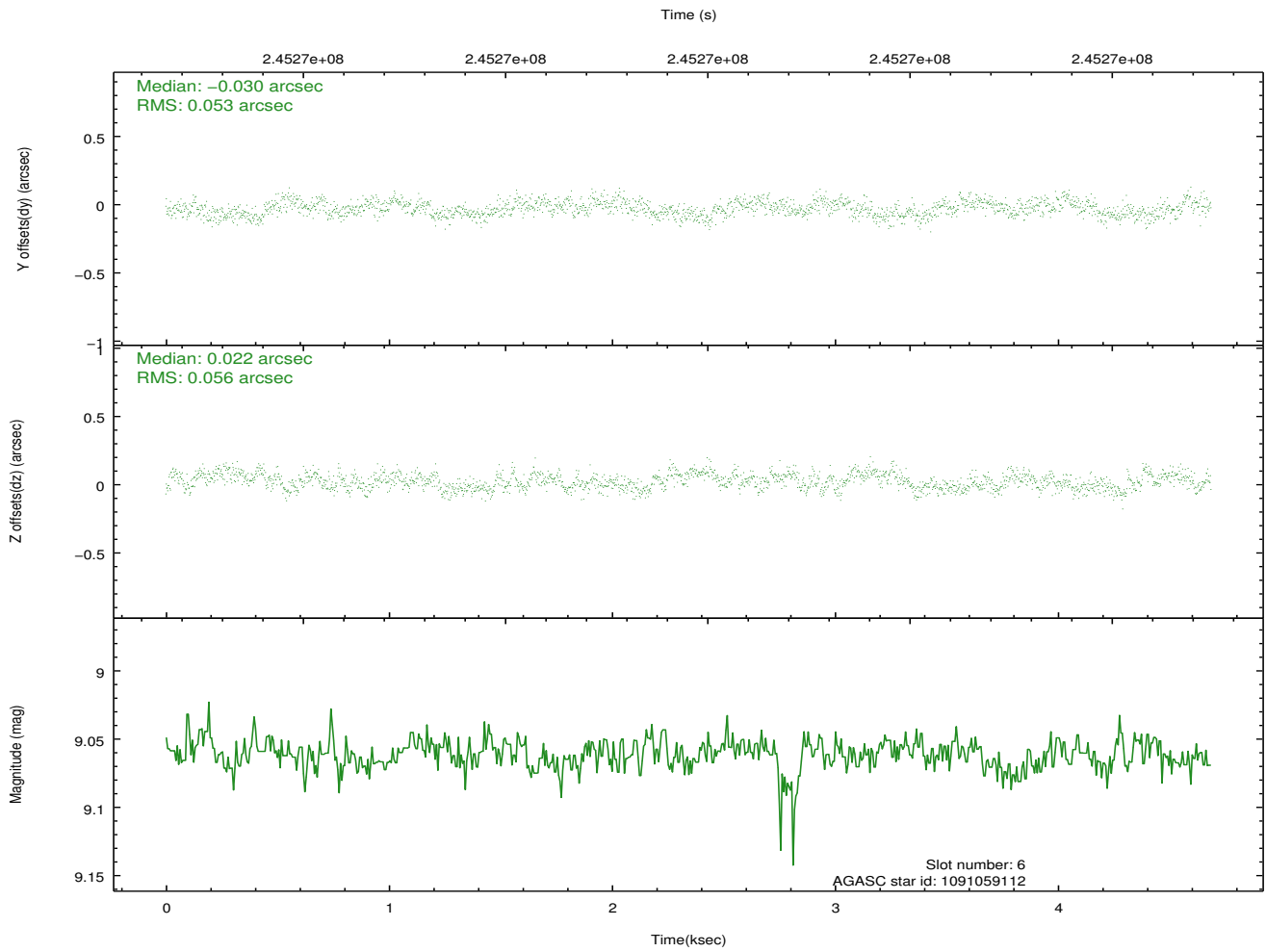
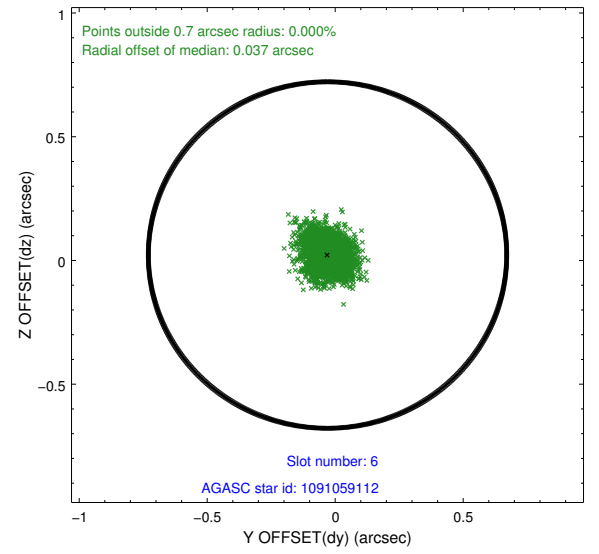
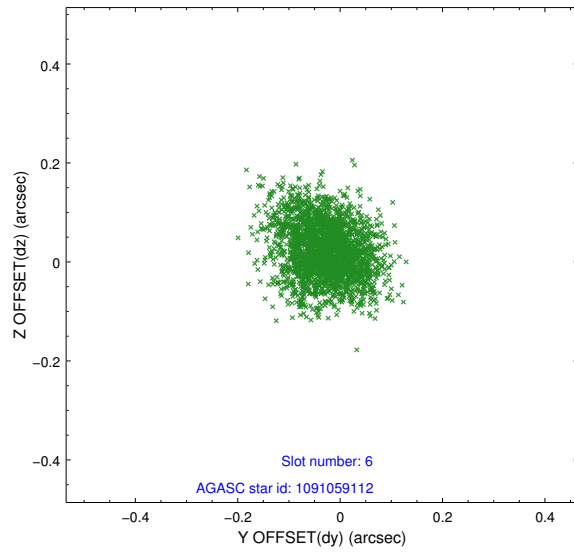
## 2.4.2 Slot 4



### 2.4.3 Slot 5

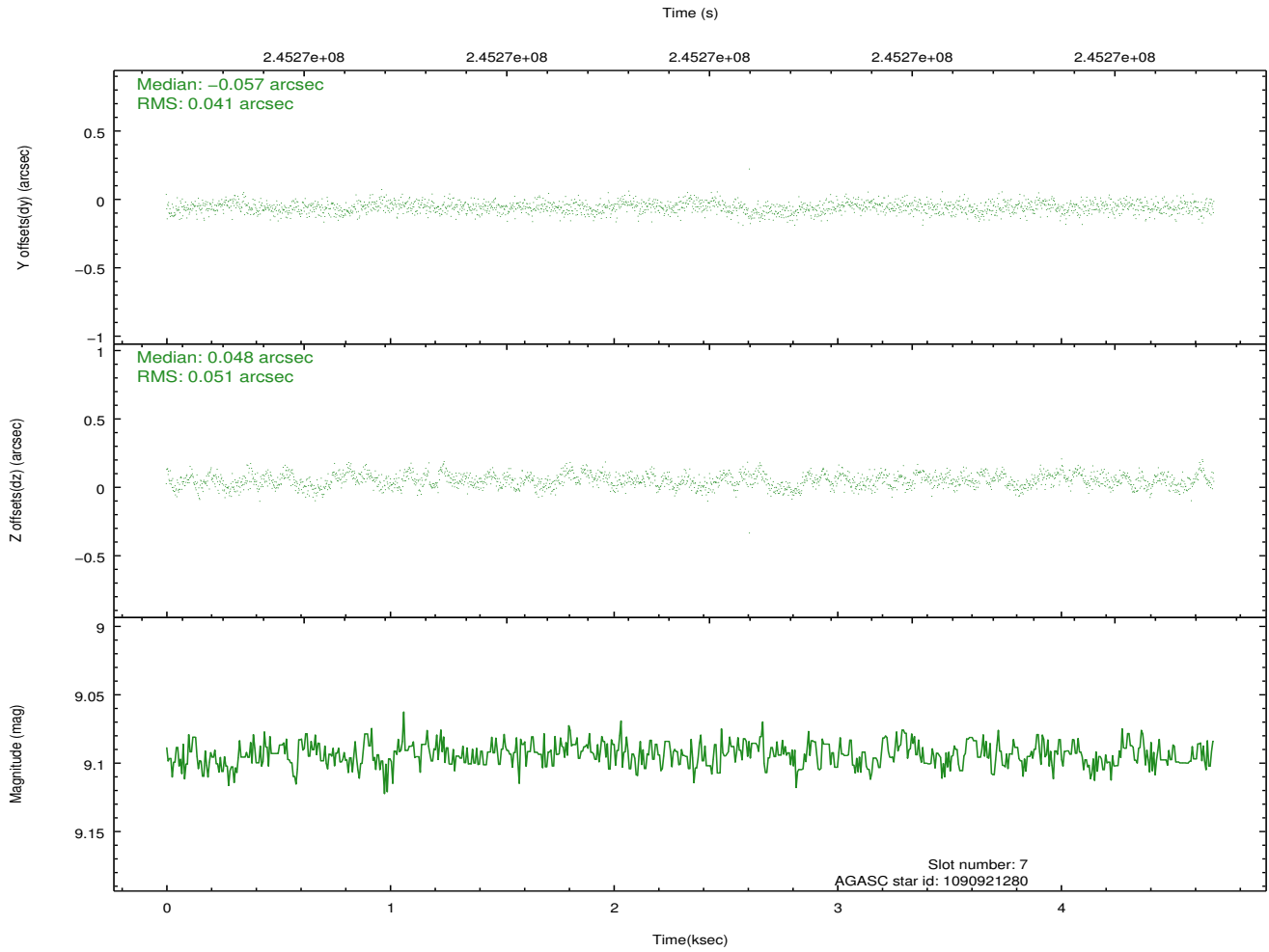
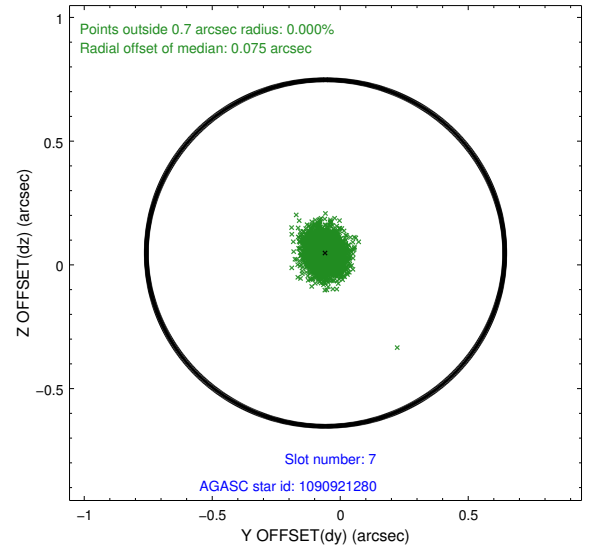
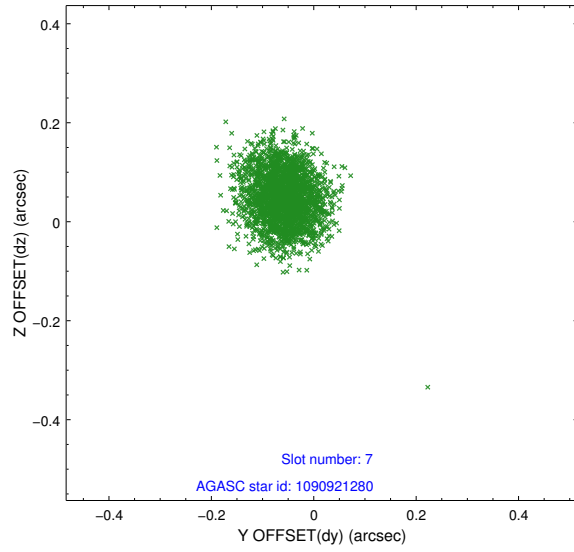


## 2.4.4 Slot 6



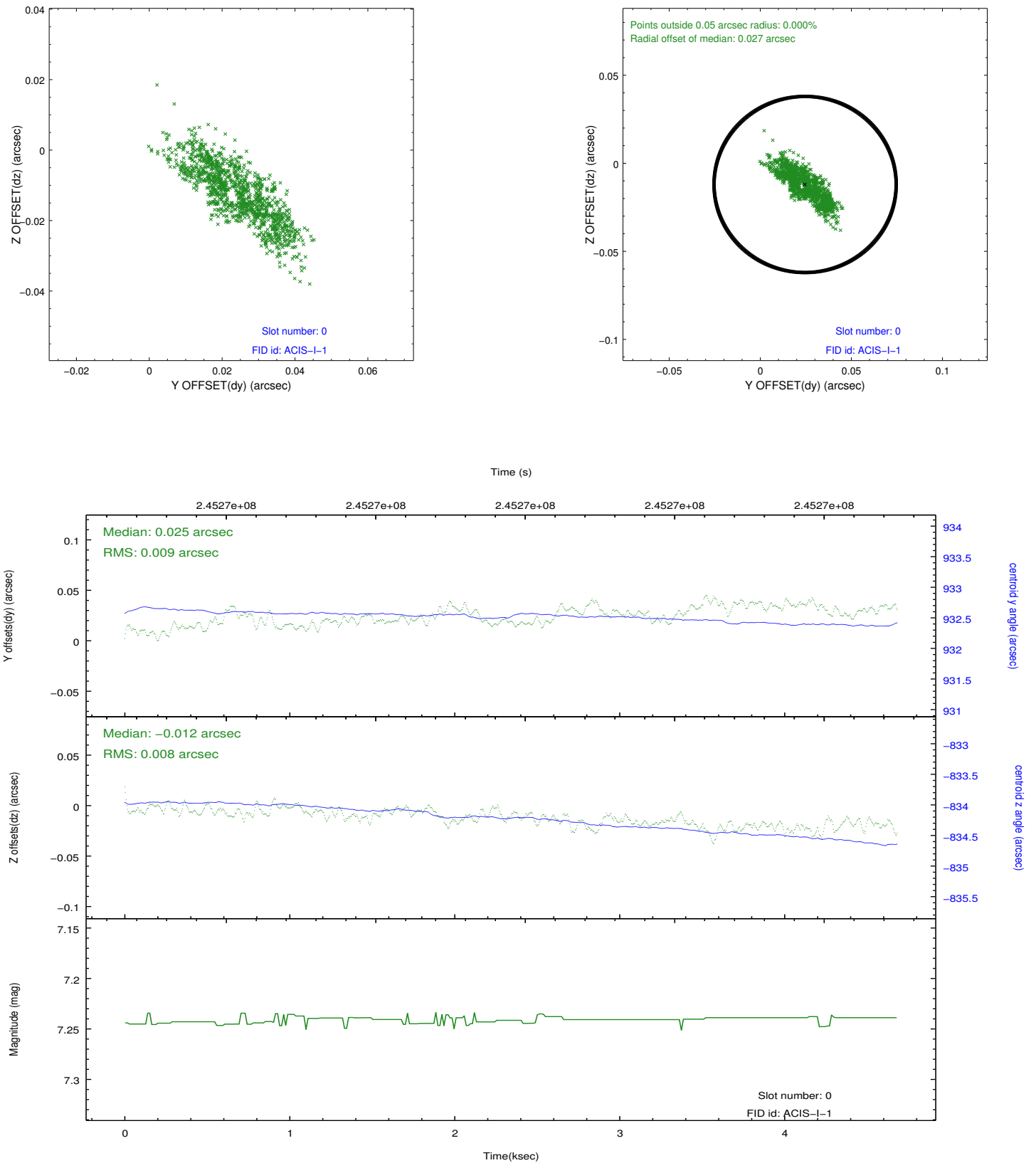


### 2.4.5 Slot 7

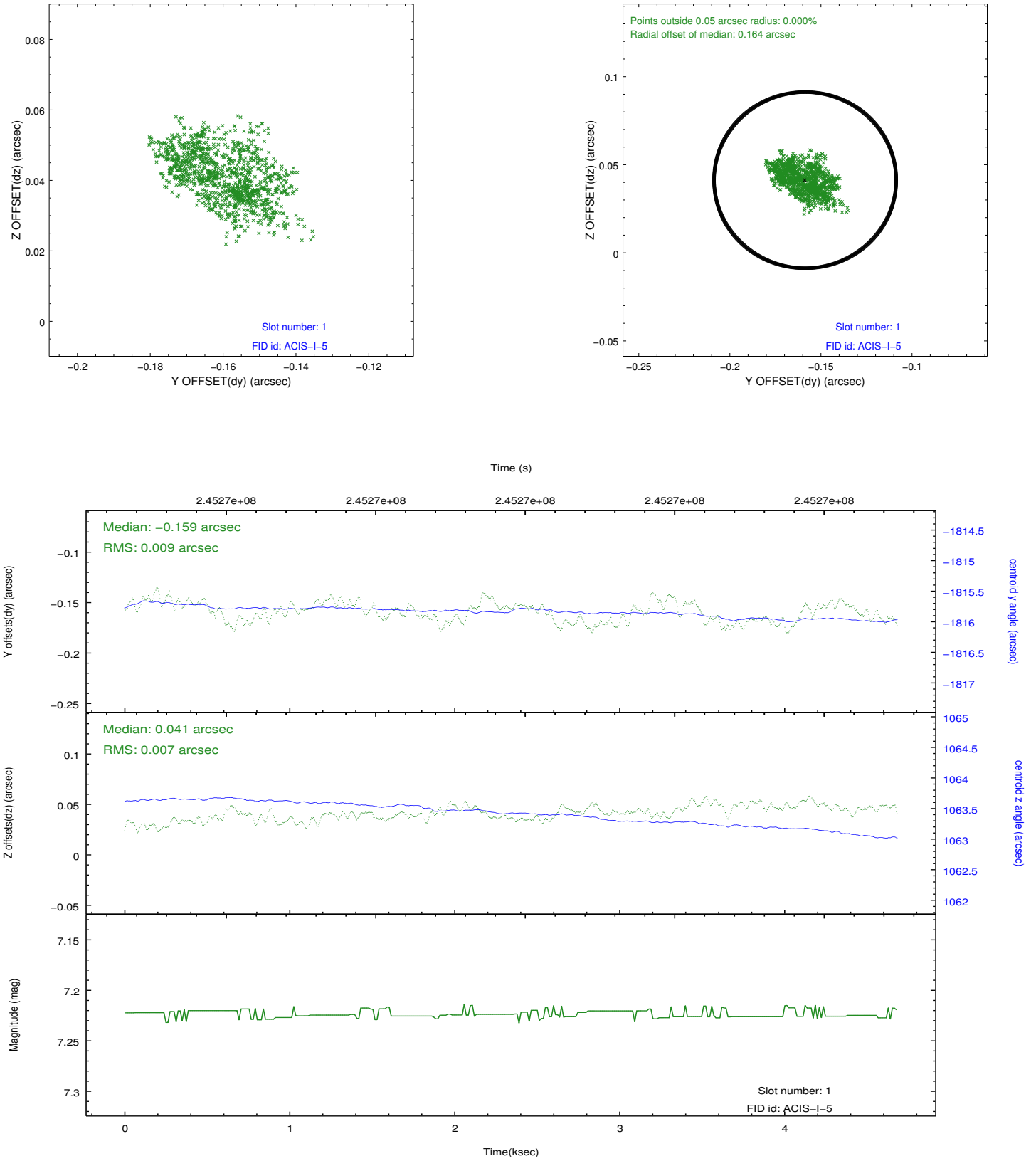


## 2.5 FID Slots

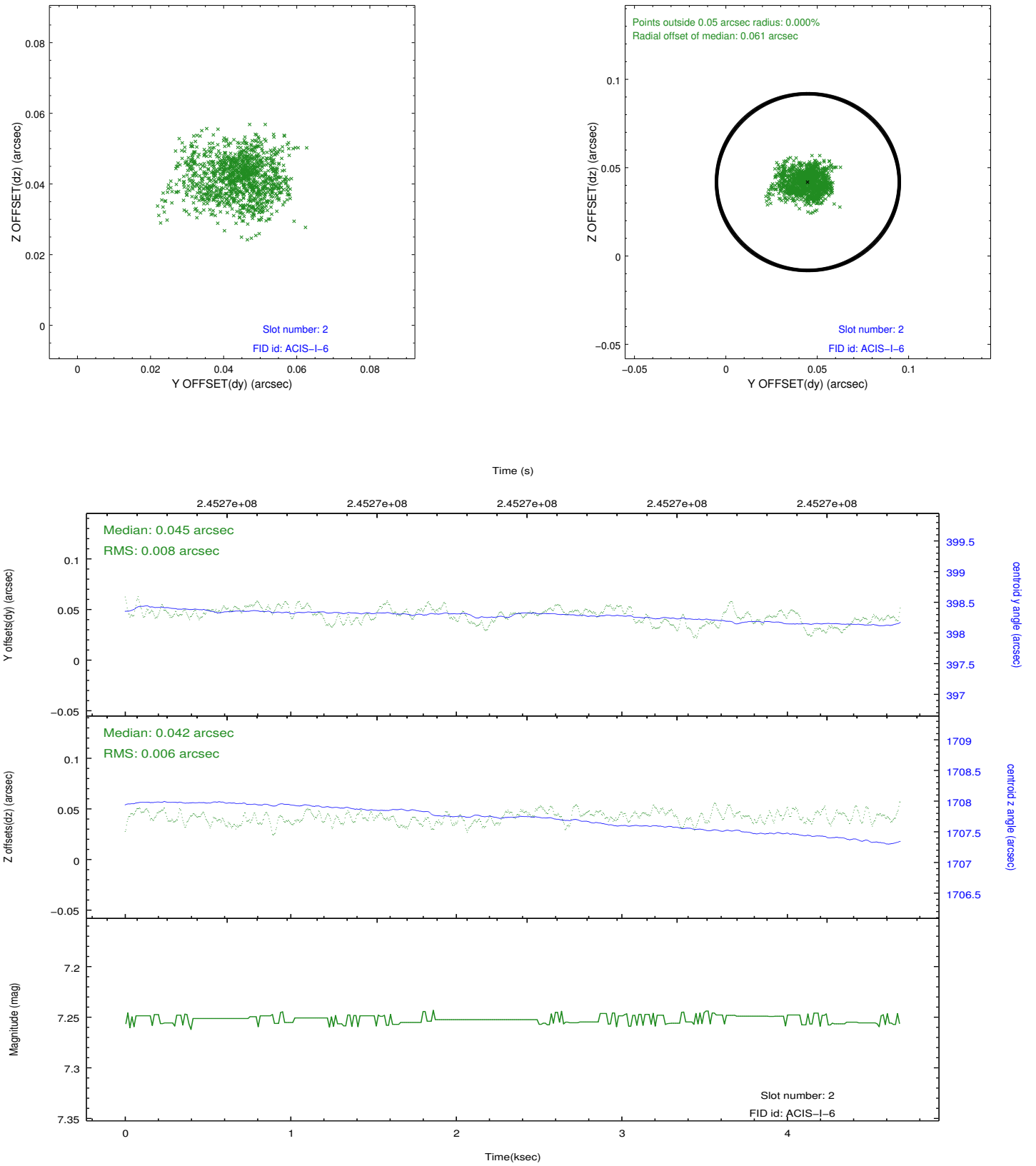
### 2.5.1 Slot 0



## 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)	2013.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6848

## A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.