

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13755 - L2 Version 1  
Chandra X-Ray Center

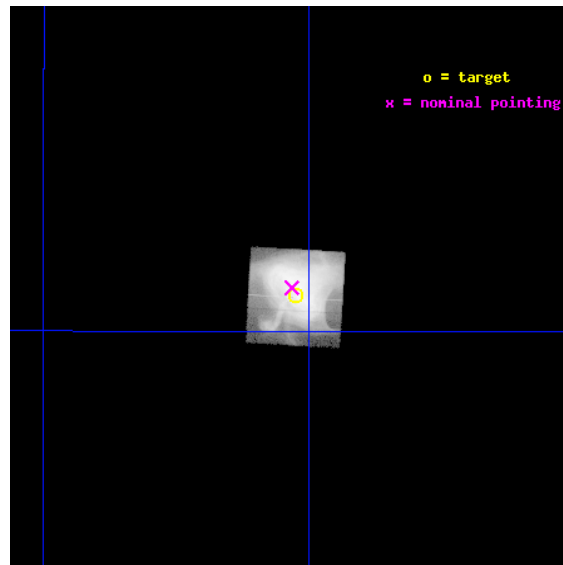
L2 Processing Date : Aug 16 2012

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# 1 Front

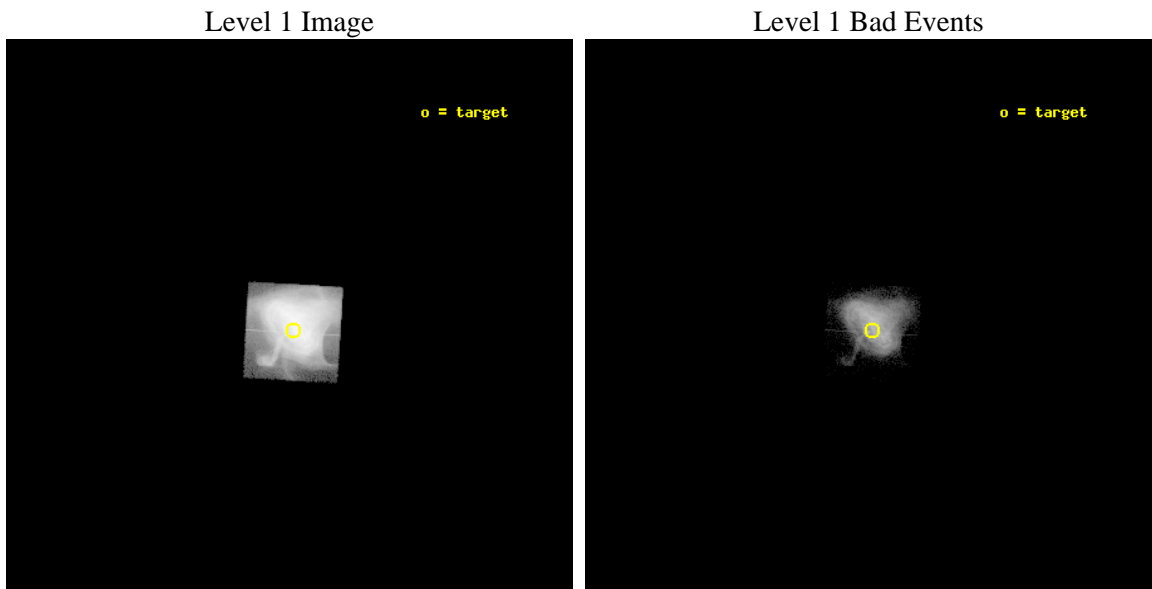
seq_num	501588	Sequence number
obs_id	13755	Observation id
title	Joint Chandra and HST Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.633221376945	Nominal RA [deg]
dec_nom	22.018544790786	Nominal Dec [deg]
roll_nom	93.428505589036	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3441.3718441129	Sum of GTIs [s]
livetime	598.02103432259	Livetime [s]
ontime7	3441.3718441129	Sum of GTIs [s]
l2events	1708401	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.727000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3441.3718441129	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	3441.3718441129	Sum of GTIs [s]
date	2012-08-16T22:52:40	Date and time of file creation	l1events	1891718	Number of level 1 events
revision	1	Processing version of data			

### 2.1.3 Events

	<b>ccd 7</b>
level 1 events	1891718
rejected events	171654
rejected %	9%

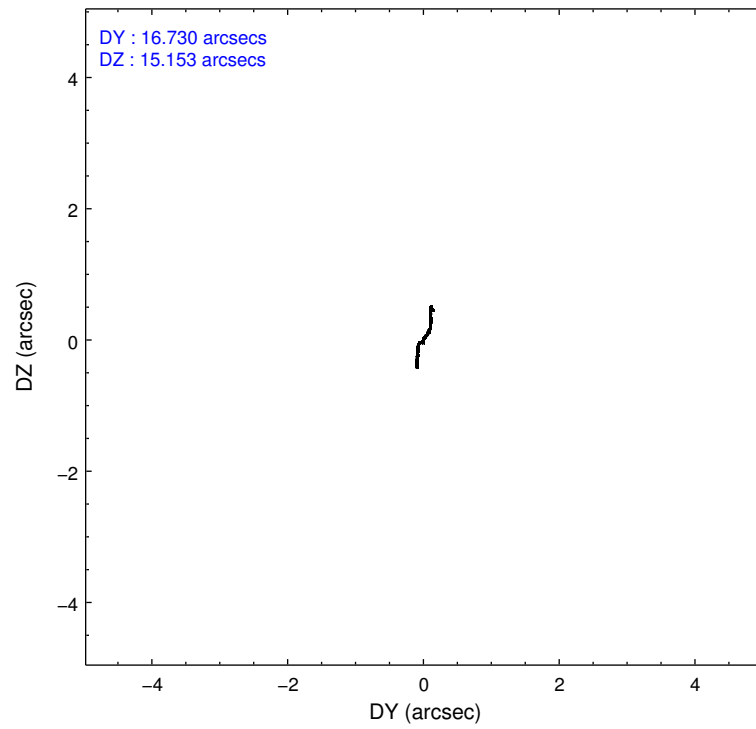
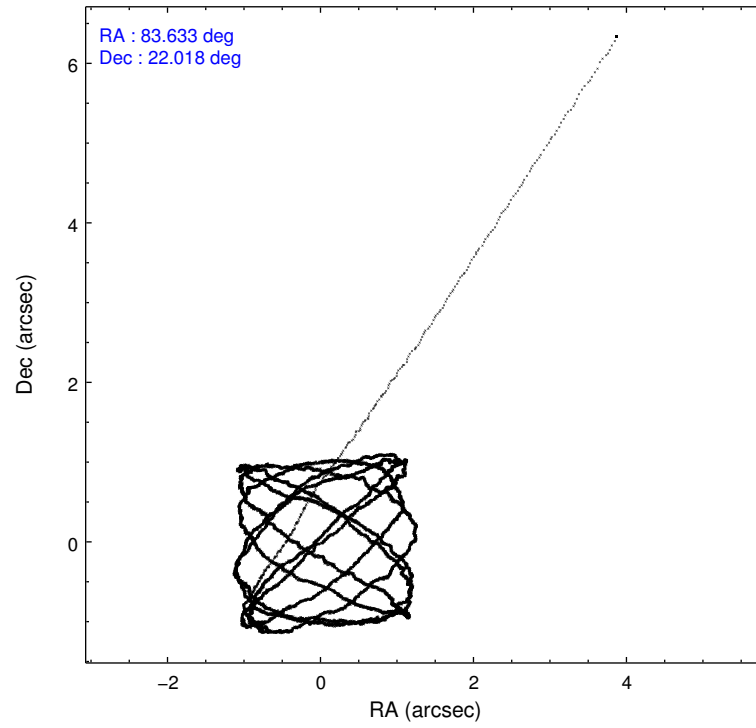
	<b>ccd 7</b>
grade 0 events	371563
	19%
grade 1 events	20733
	1%
grade 2 events	475535
	25%
grade 3 events	189012
	9%
grade 4 events	188255
	9%
grade 5 events	61866
	3%
grade 6 events	496293
	26%
grade 7 events	88461
	4%

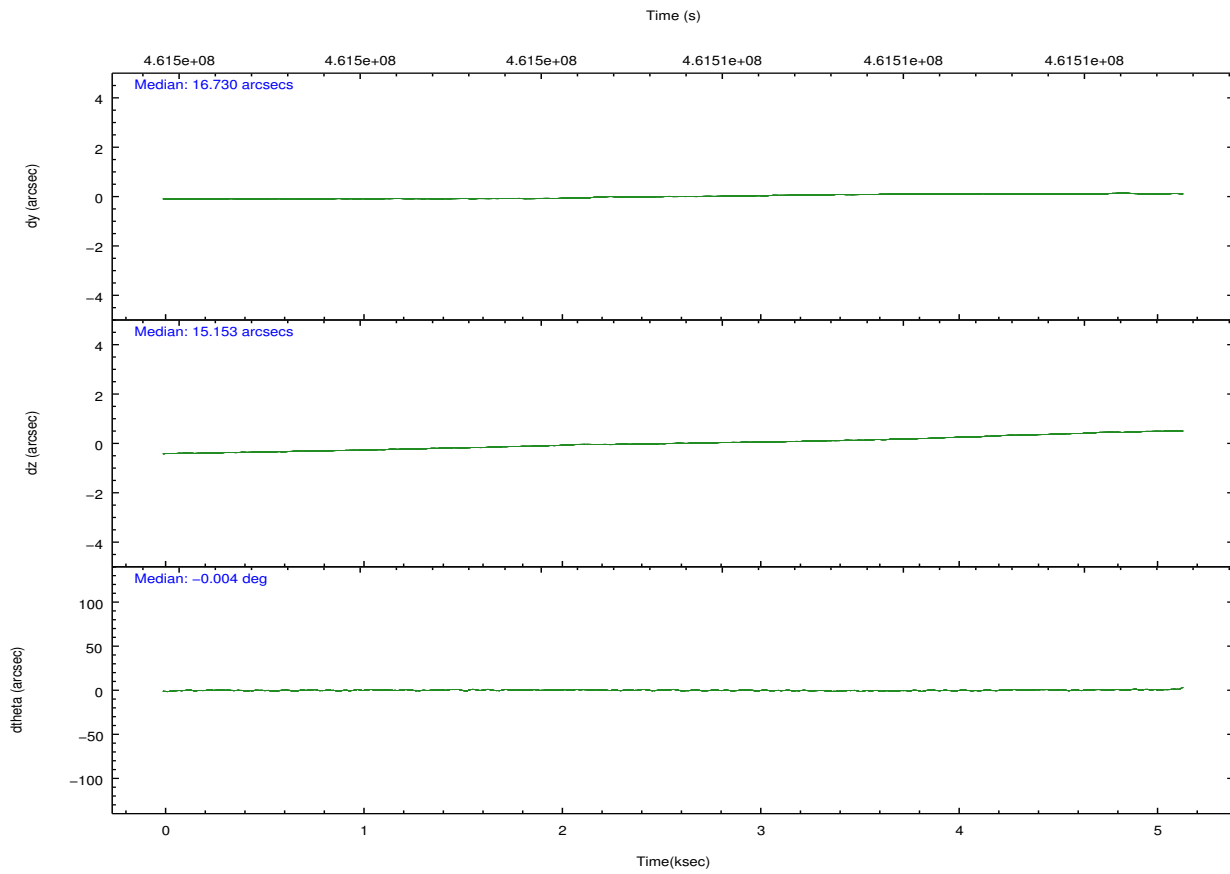
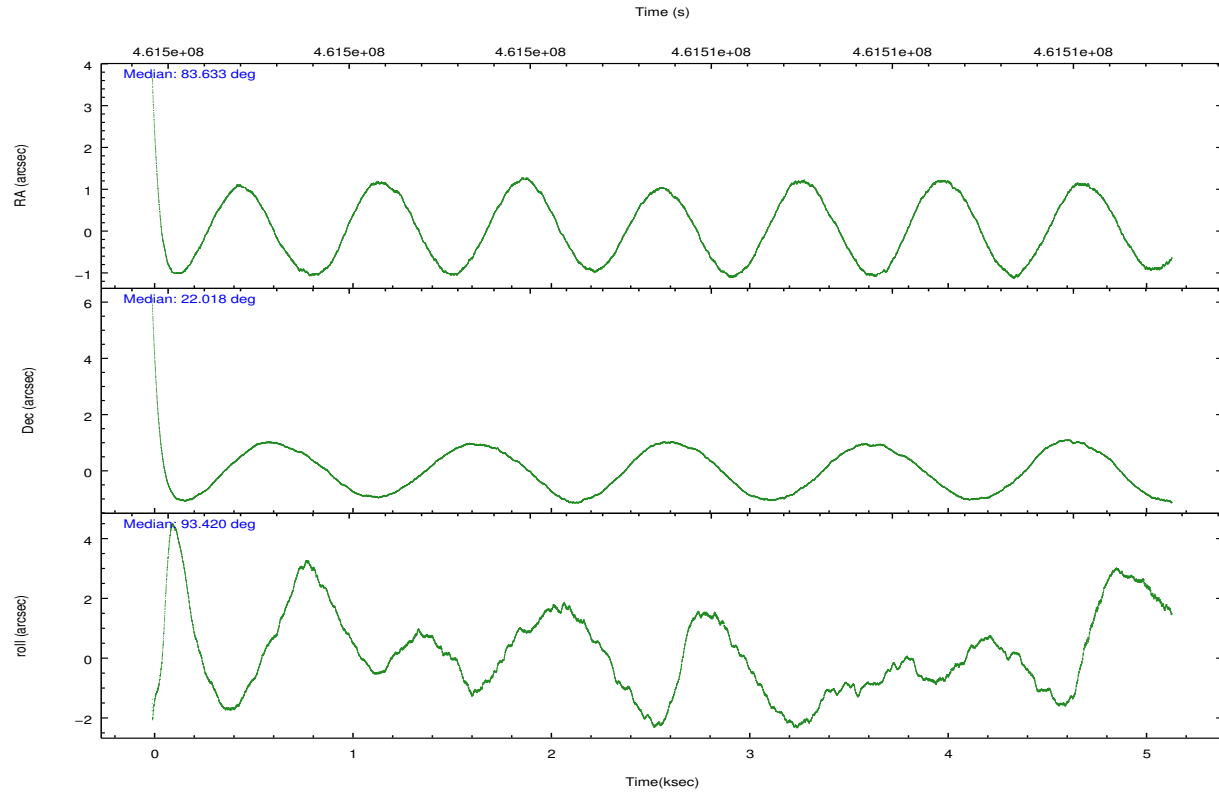


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.649809	83.6332213769445	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.995931	22.01854479078629	Subarray start row	215	215
[deg] Pointing Roll	93.265681	93.42850558903552	Subarray row count	300	300
[s] Window start time (MET)	461203267.184000	461203267.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	462153666.184000	462153666.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.196523	-187.2058600929514			
[mm] SIM translation stage offset	-2.936	-2.926662490056458			
[s] Observation start time (MET)	461503296.184000	461501986.11565			
Observation start date	2012-08-16T11:20:29	2012-08-16T10:59:46			
[s] Observation end time (MET)	461508297.184000	461508522.0285			
Observation end date	2012-08-16T12:43:50	2012-08-16T12:48:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



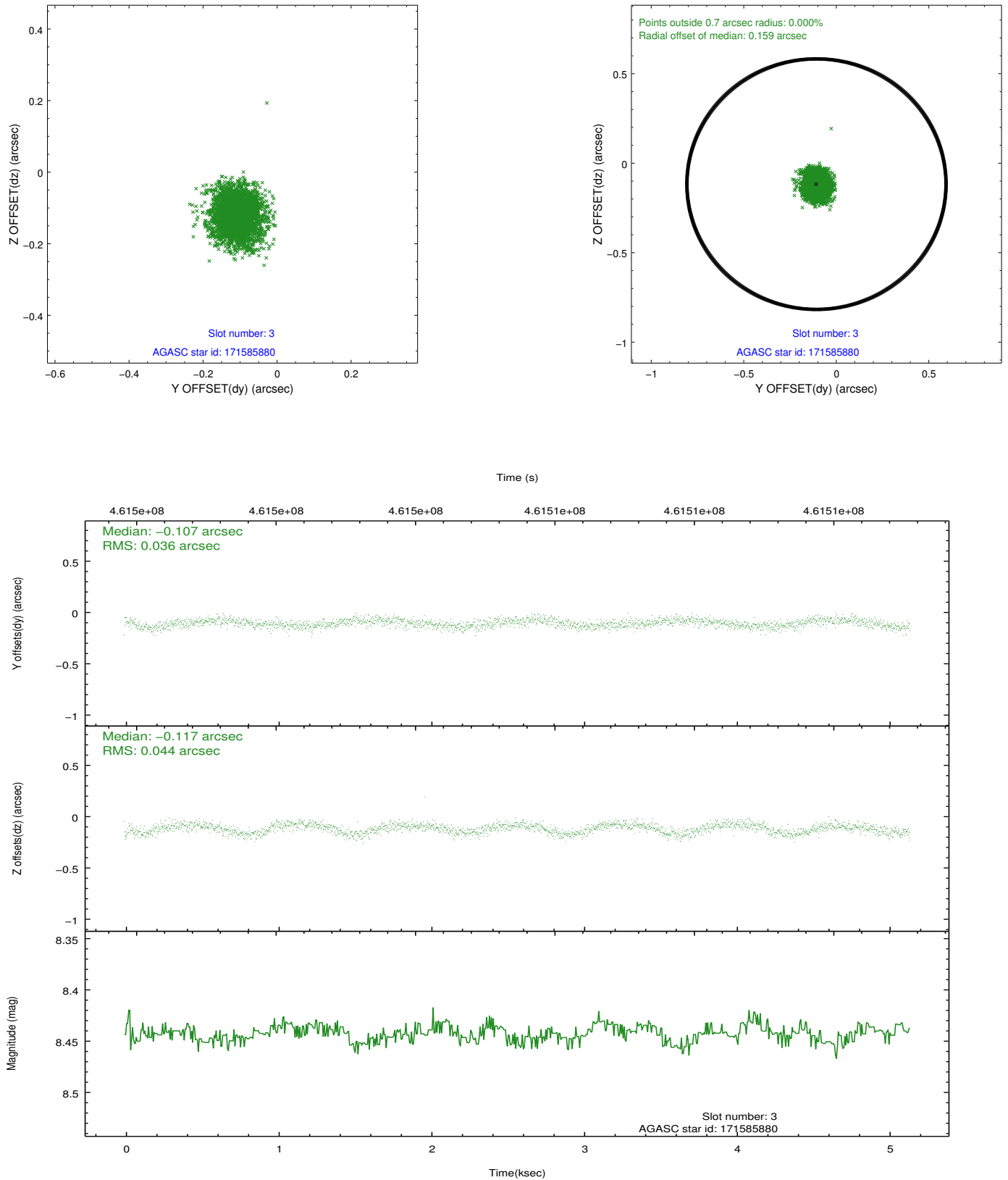


### Slot Statistics

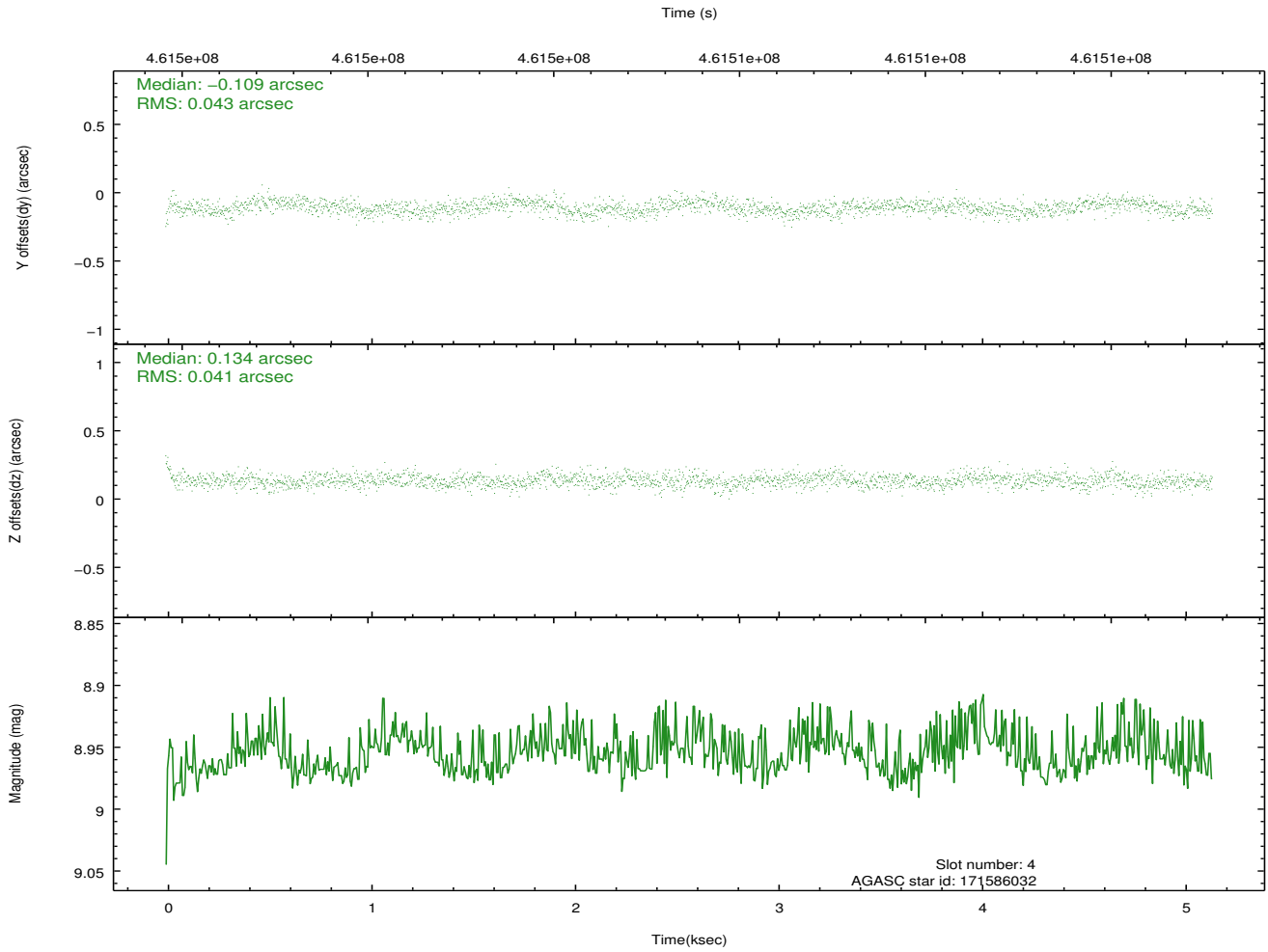
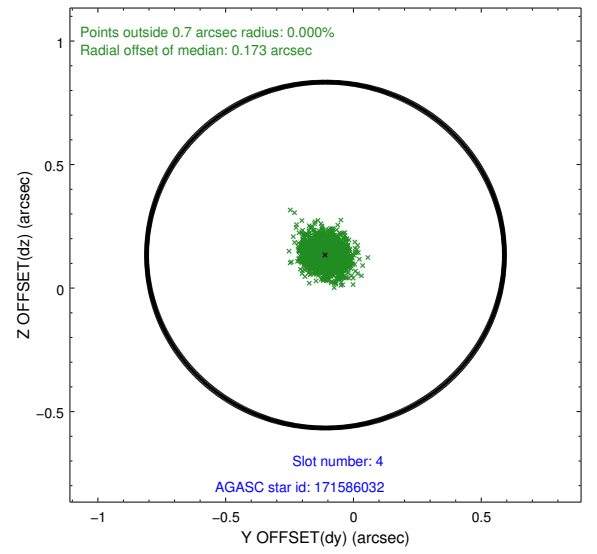
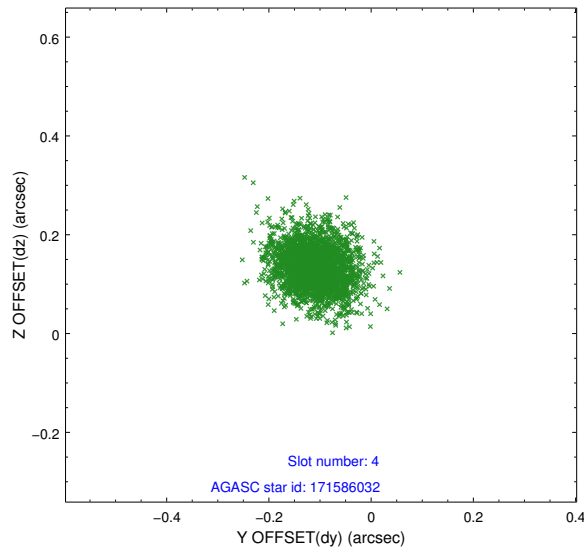
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.99	1254	-0.127	-0.054	0.009	0.015	0.000000	0.000000	-769.67	-1797.03
1	FID	ACIS-S-4	7.07	1254	0.274	0.076	0.006	0.011	0.000000	0.000000	2143.46	110.31
2	FID	ACIS-S-5	7.11	1254	-0.179	-0.013	0.008	0.014	0.000000	0.000000	-1821.06	105.23
3	GUIDE	171585880	8.44	2507	-0.107	-0.117	0.060	0.097	83.676260	22.176319	643.43	-124.92
4	GUIDE	171586032	8.96	2506	-0.109	0.134	0.063	0.104	83.950197	22.083225	258.14	-1018.14
5	GUIDE	171597832	9.14	2508	0.287	-0.227	0.076	0.128	83.183230	21.366702	-2169.78	1689.89
6	GUIDE	171721904	9.16	2506	-0.057	0.082	0.090	0.144	84.272676	22.116922	320.33	-2098.06
7	GUIDE	243941560	8.34	2506	-0.013	0.125	0.059	0.099	83.733264	22.568598	2042.69	-394.55

## 2.4 Star Slots

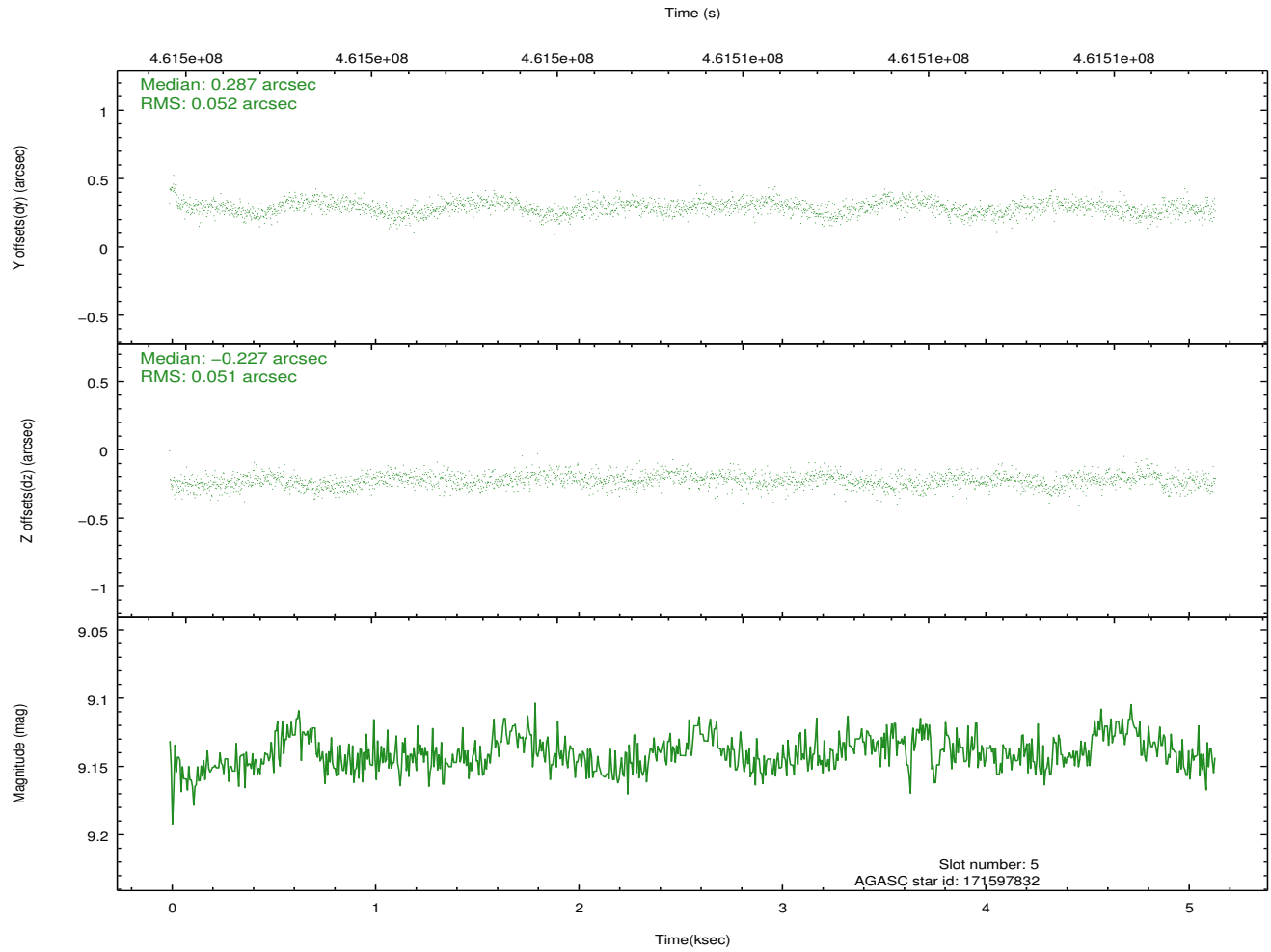
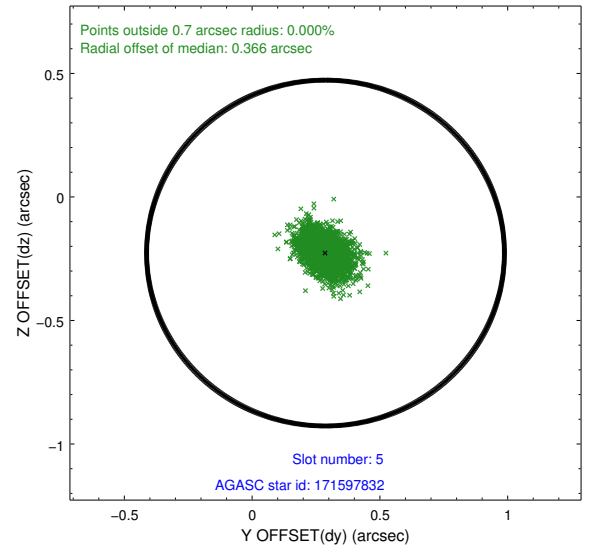
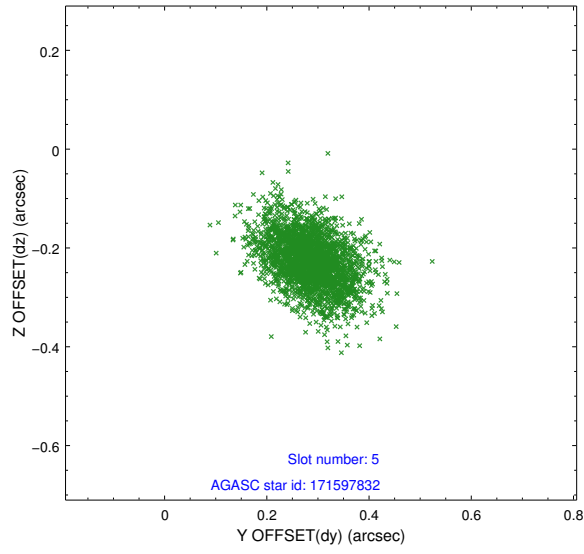
### 2.4.1 Slot 3



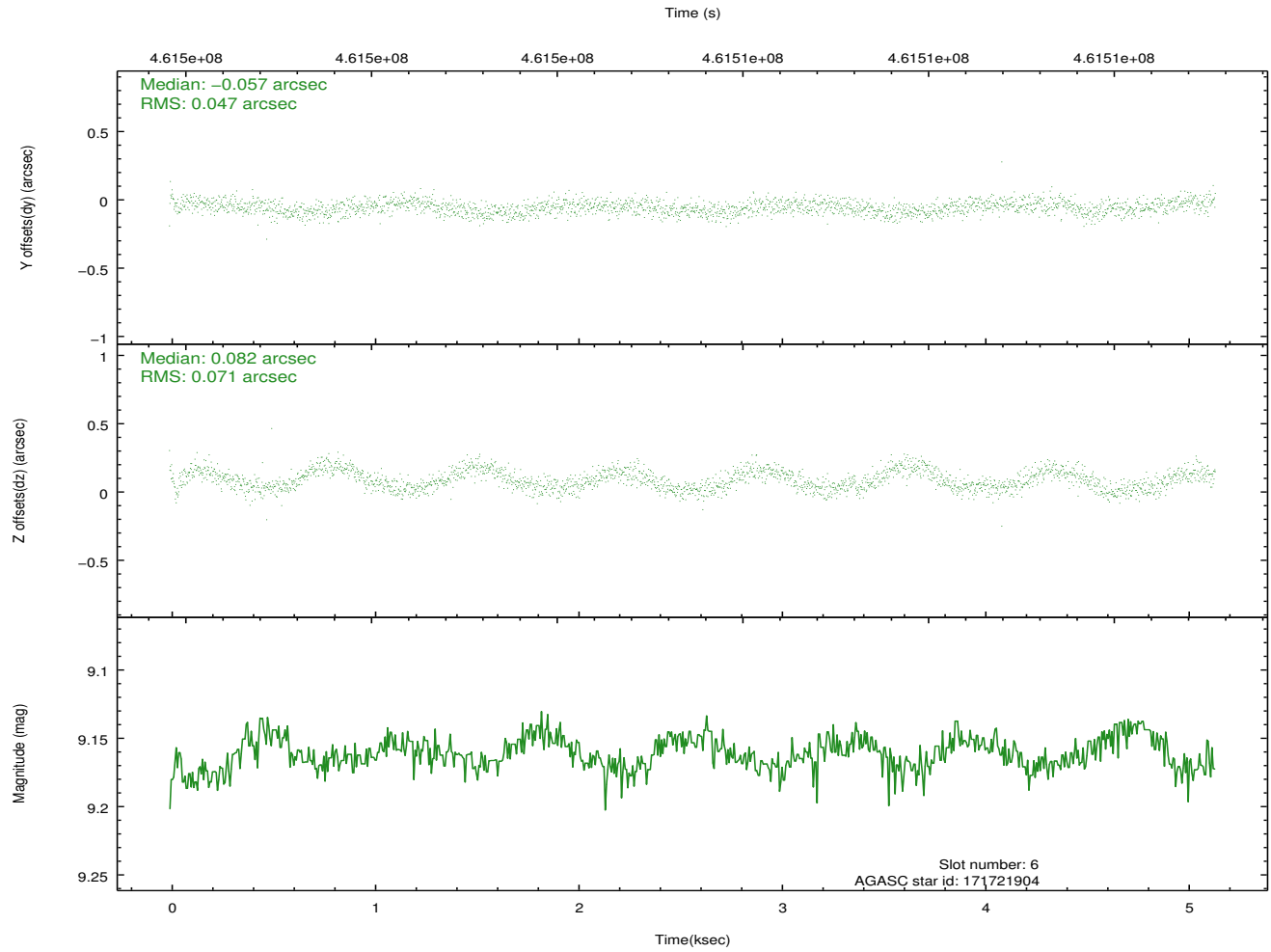
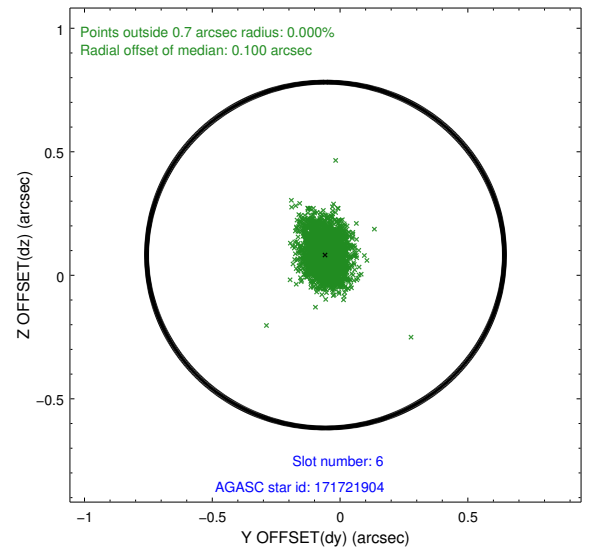
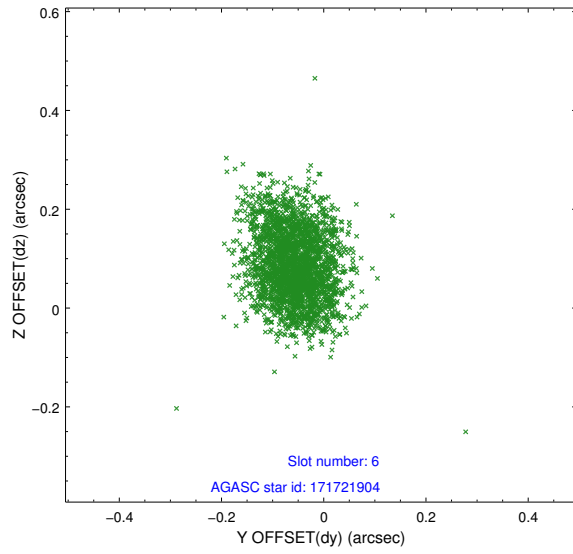
## 2.4.2 Slot 4



### 2.4.3 Slot 5

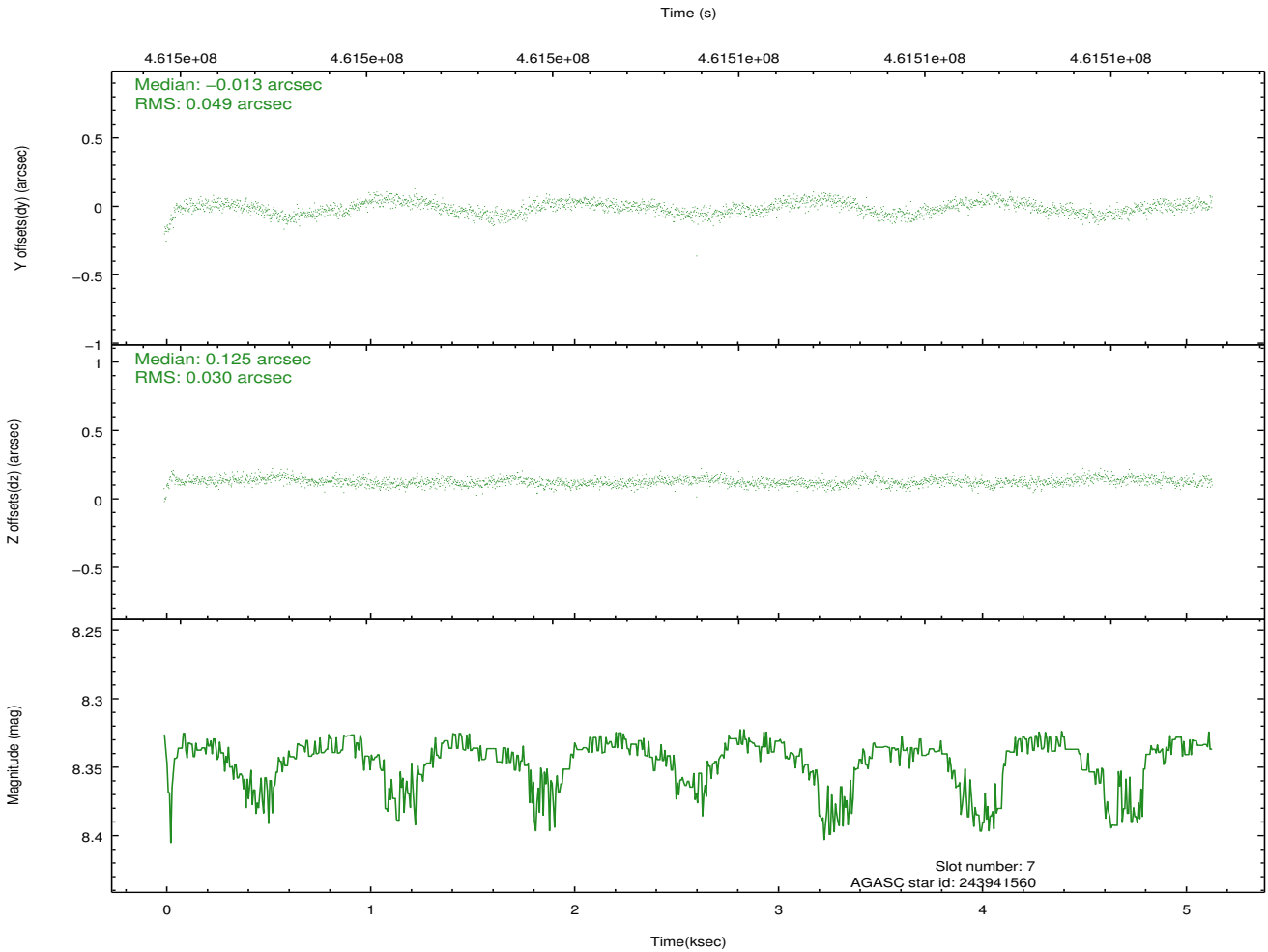
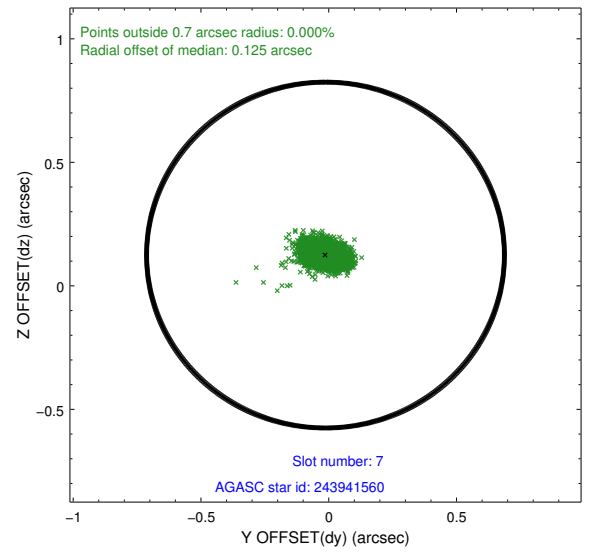
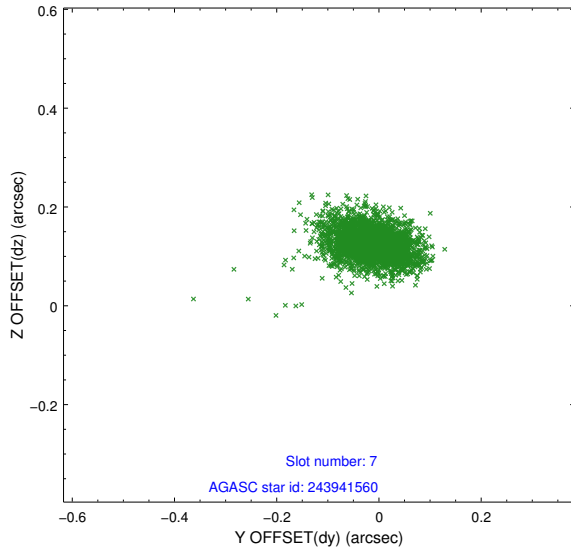


## 2.4.4 Slot 6



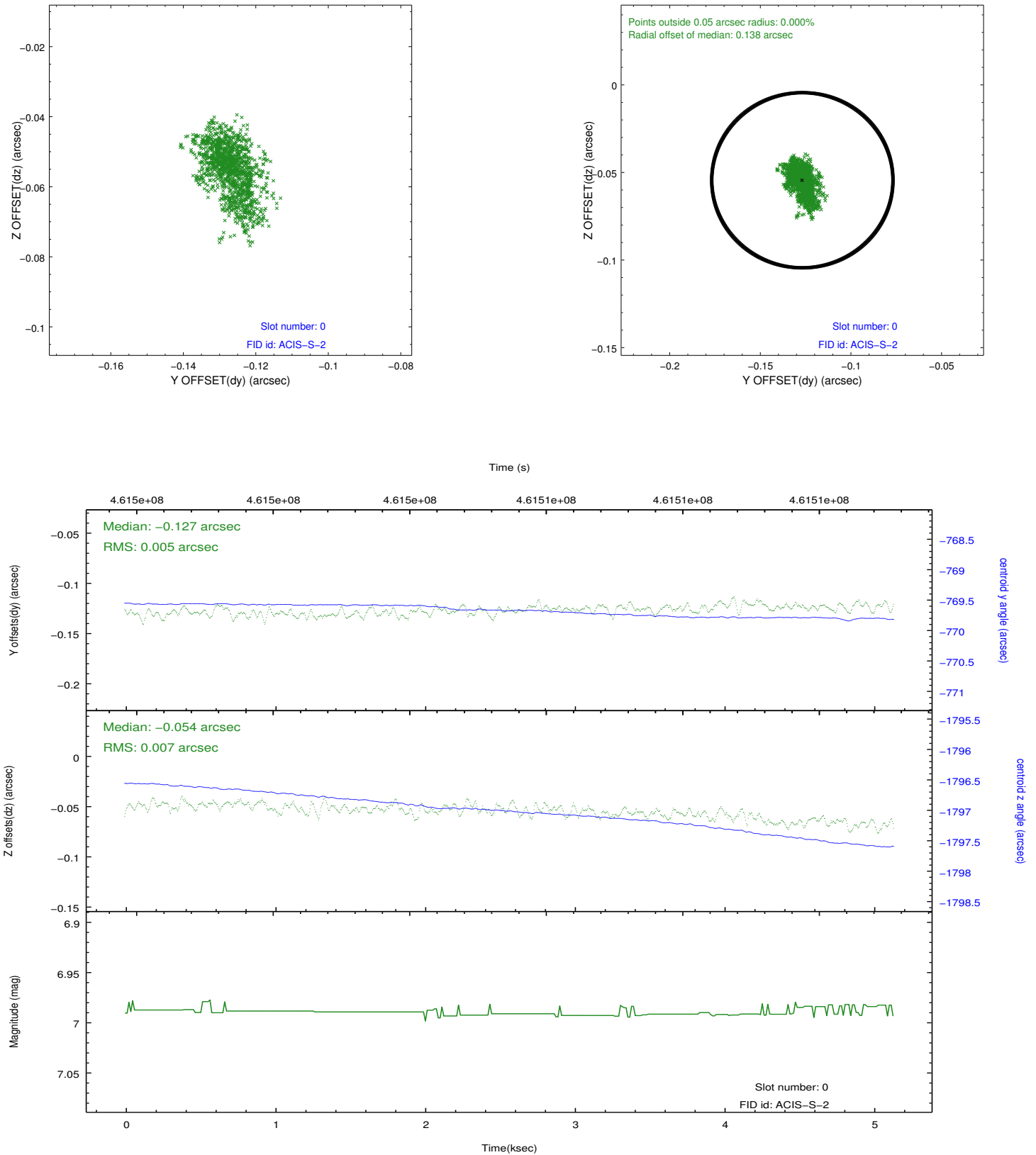


## 2.4.5 Slot 7

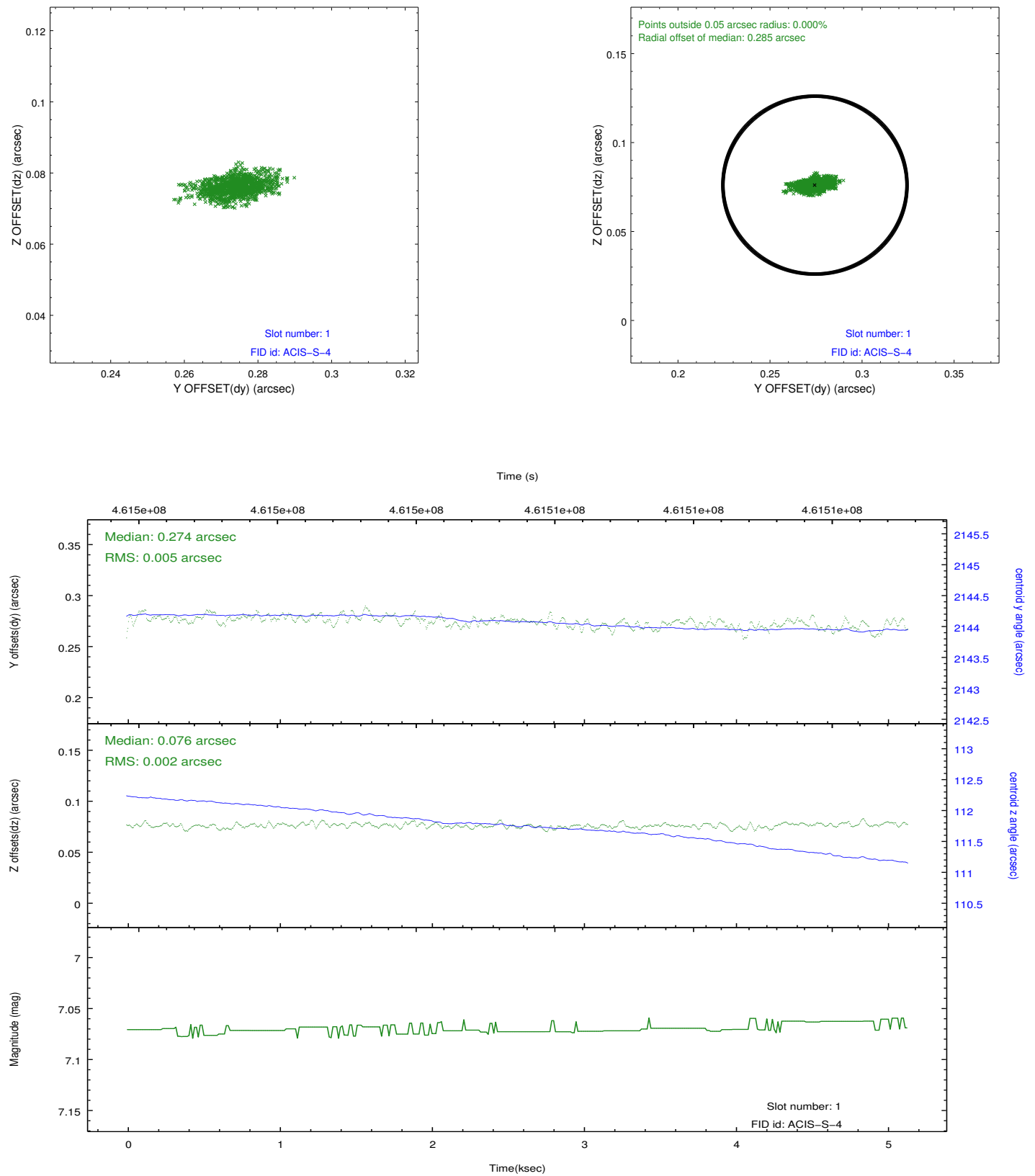


## 2.5 FID Slots

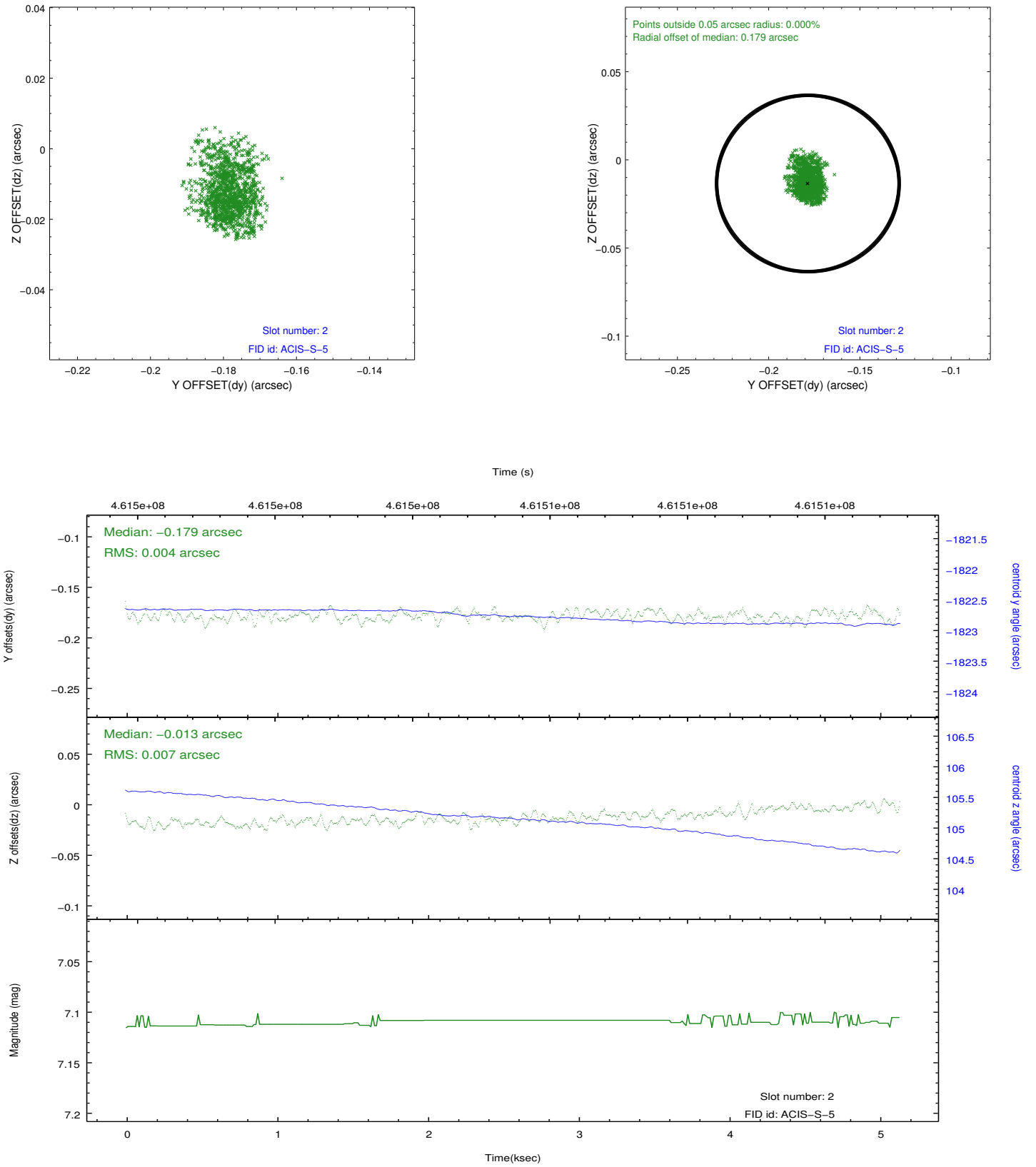
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

### A.2 Comments

Charge time is set to the scheduled time for this observation, although the ontime is significantly less due to telemetry saturation.