

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7351 - L2 Version 3  
Chandra X-Ray Center

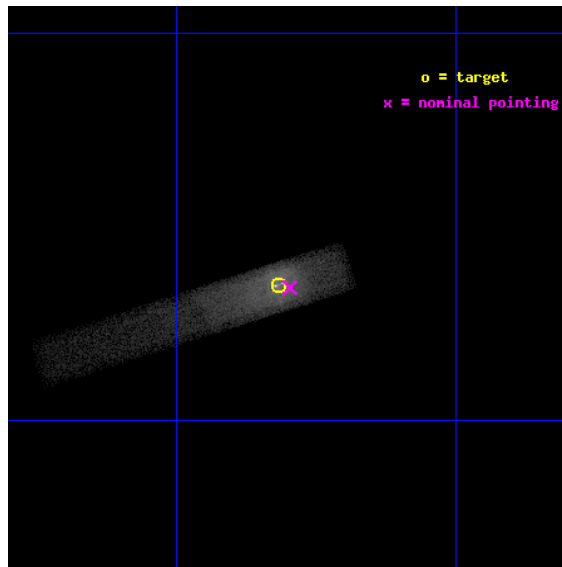
L2 Processing Date : Apr 22 2012

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# 1 Front

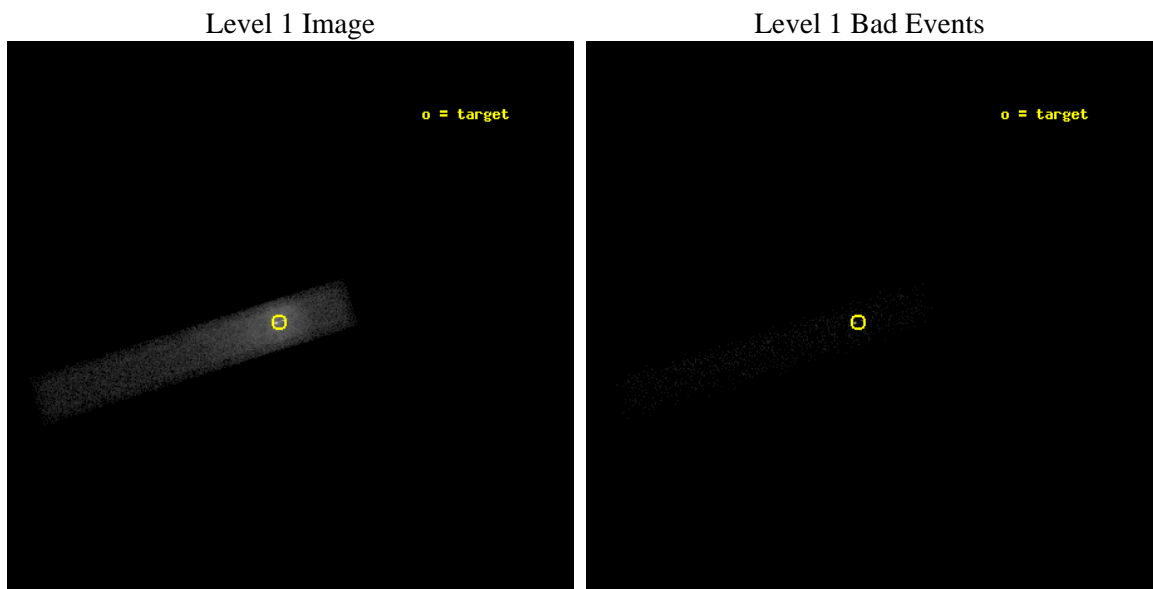
seq_num	701341	Sequence number
obs_id	7351	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69936241652	Nominal RA [deg]
dec_nom	12.390377037044	Nominal Dec [deg]
roll_nom	162.43470092852	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5163.1996922493	Sum of GTIs [s]
livetime	4682.7495848443	Livetime [s]
ontime7	5163.1996922493	Sum of GTIs [s]
l2events	60646	Number of level 2 events



## 2 OBI

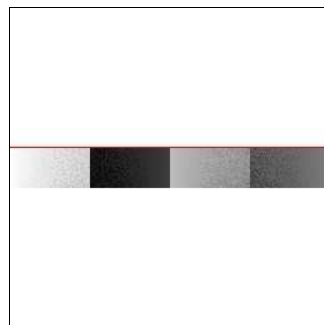
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5163.1996922493	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	5163.1996922493	Sum of GTIs [s]
date	2012-04-22T04:20:53	Date and time of file creation	l1events	72276	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	72276
rejected events	10986
rejected %	15%

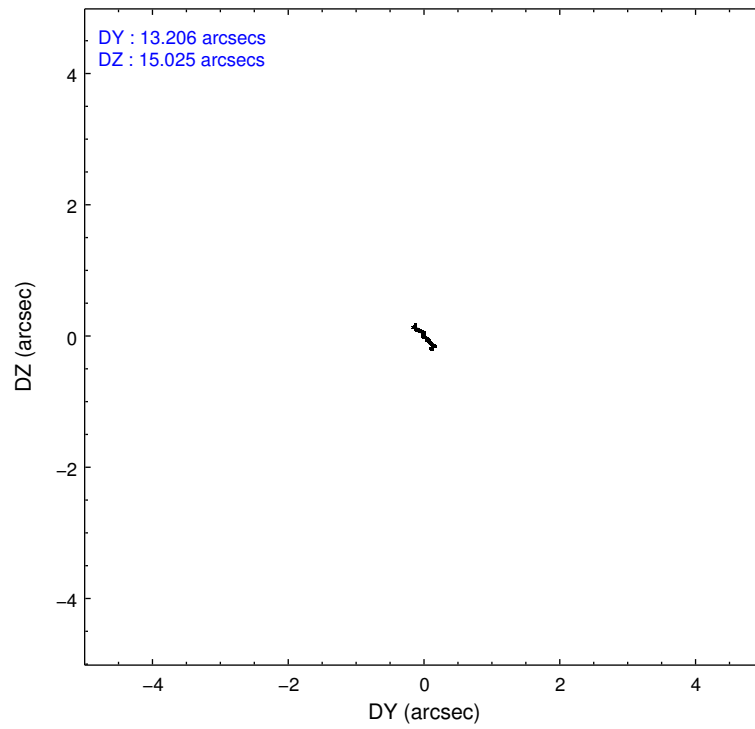
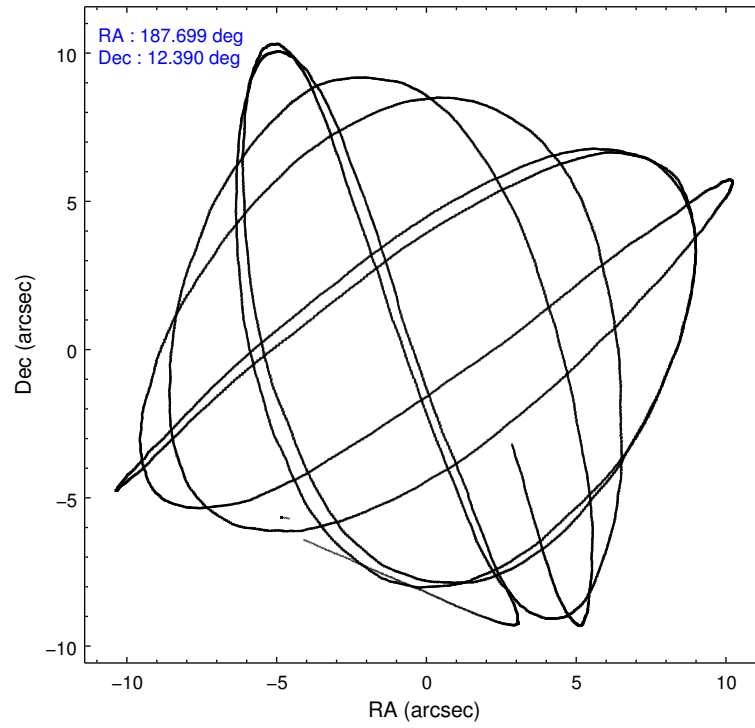
	<b>ccd 7</b>
grade 0 events	19043
	26%
grade 1 events	346
	0%
grade 2 events	16072
	22%
grade 3 events	7525
	10%
grade 4 events	7313
	10%
grade 5 events	2223
	3%
grade 6 events	13673
	18%
grade 7 events	6081
	8%

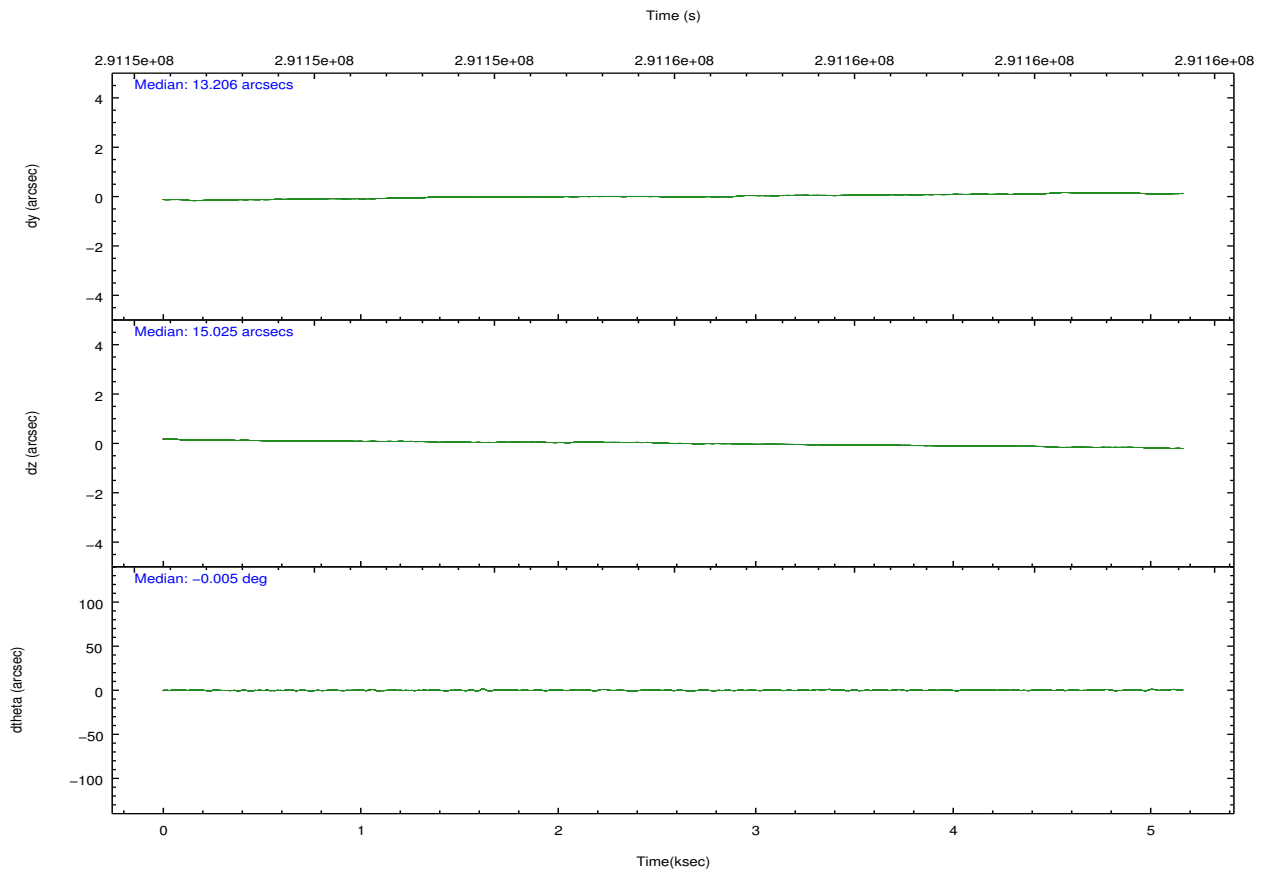
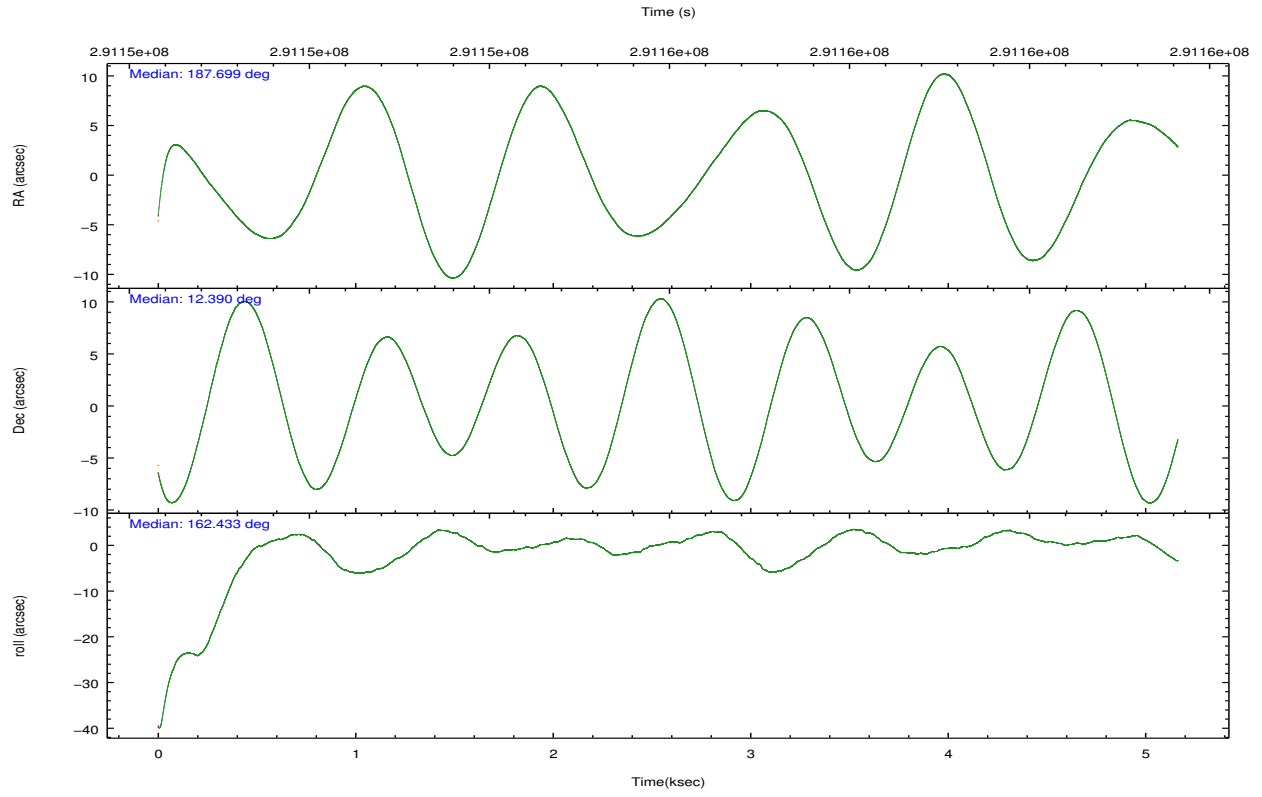


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.726611	187.6993624165247	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.396736	12.39037703704415	Subarray start row	449	449
[deg] Pointing Roll	162.272244	162.4347009285161	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	291152580.184000	291151482.69479			
Observation start date	2007-03-24T19:41:55	2007-03-24T19:24:42			
[s] Observation end time (MET)	291157580.184000	291158385.04512			
Observation end date	2007-03-24T21:05:15	2007-03-24T21:19:45			
Read mode	TIMED	TIMED			

## 2.3 Aspect



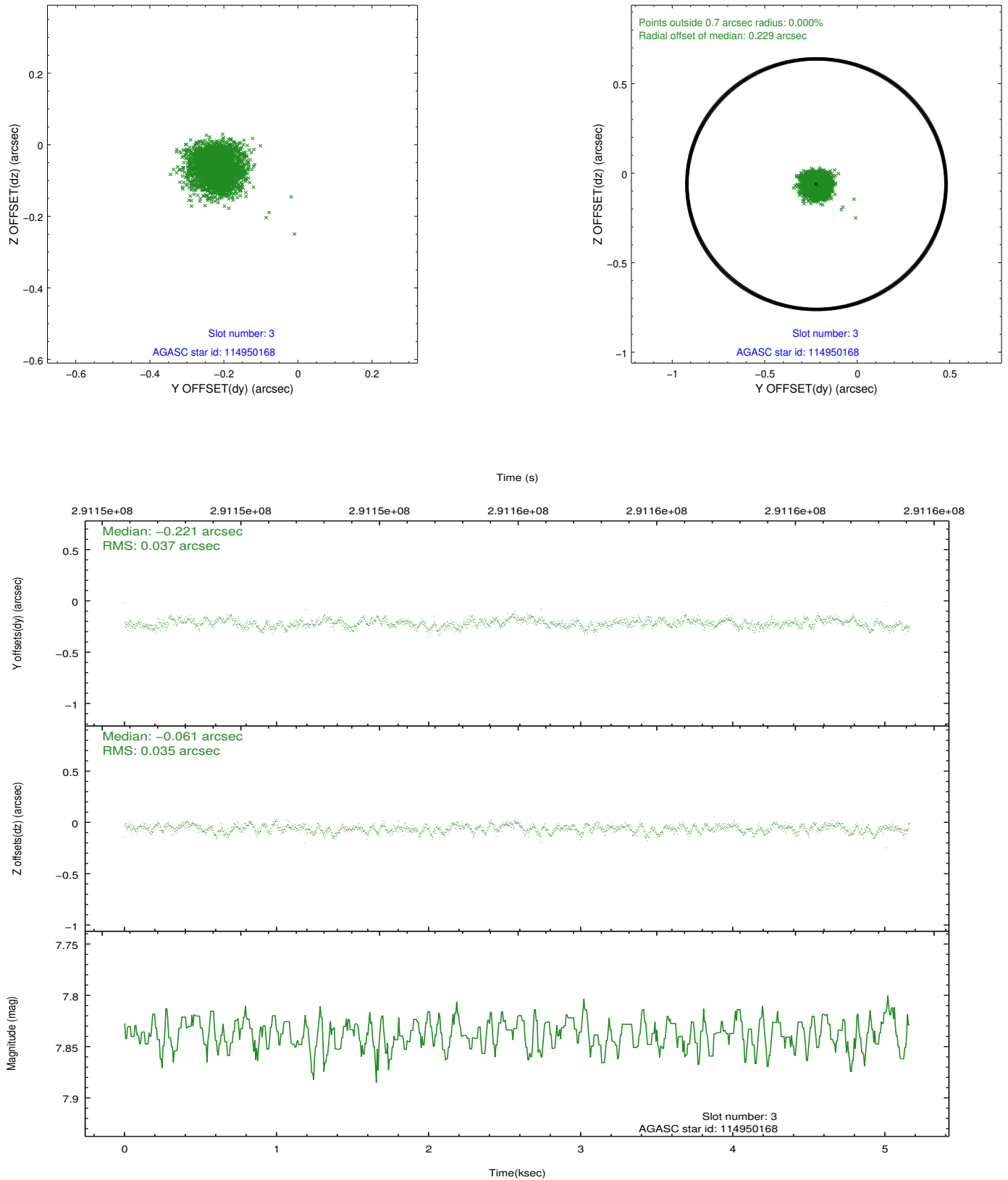


### Slot Statistics

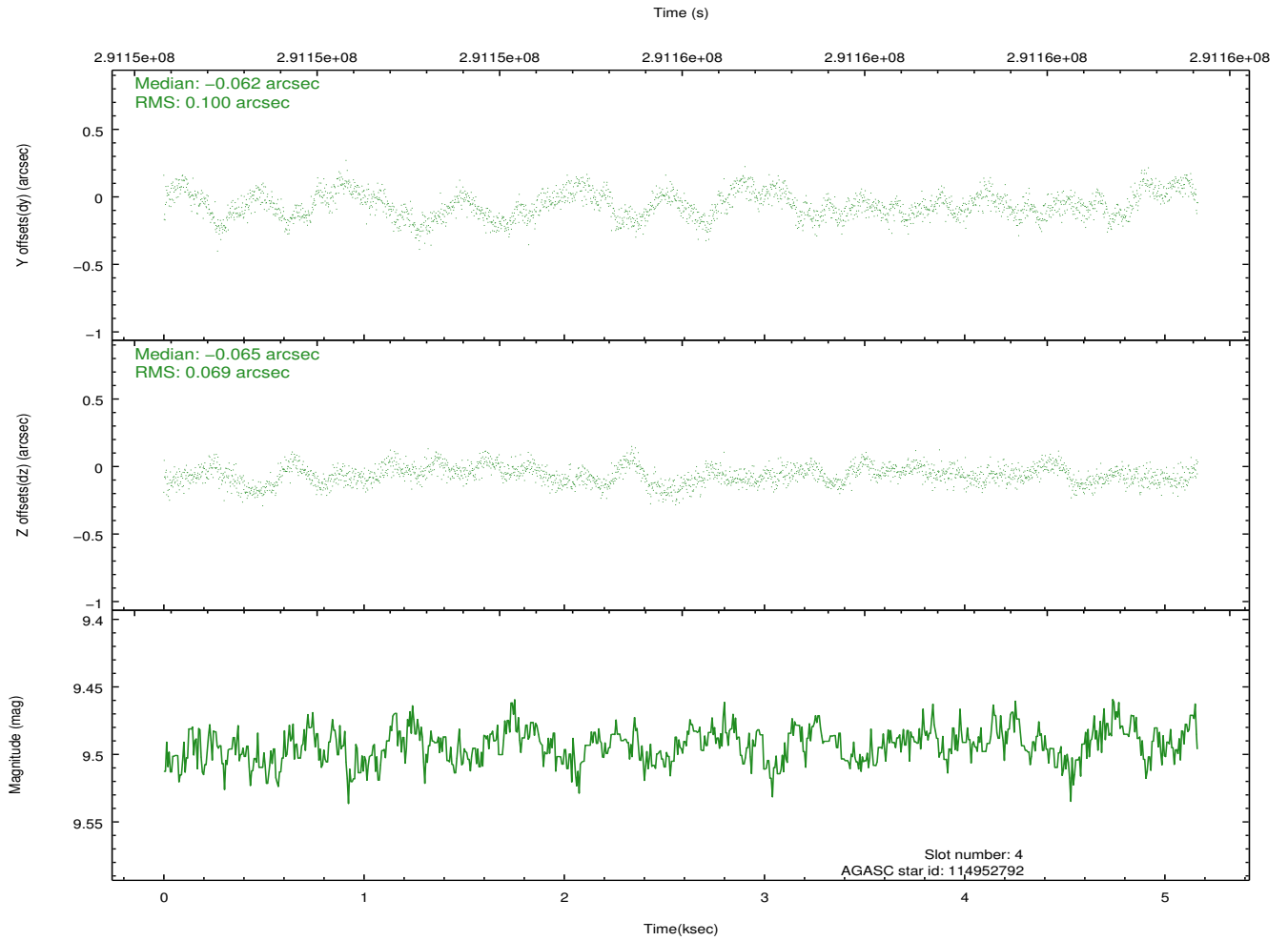
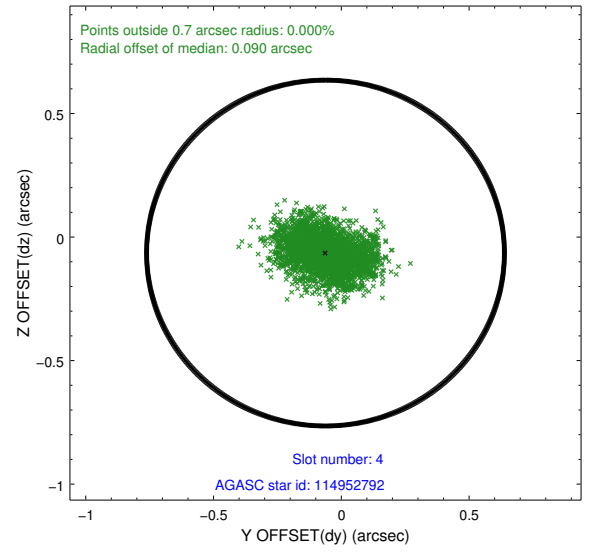
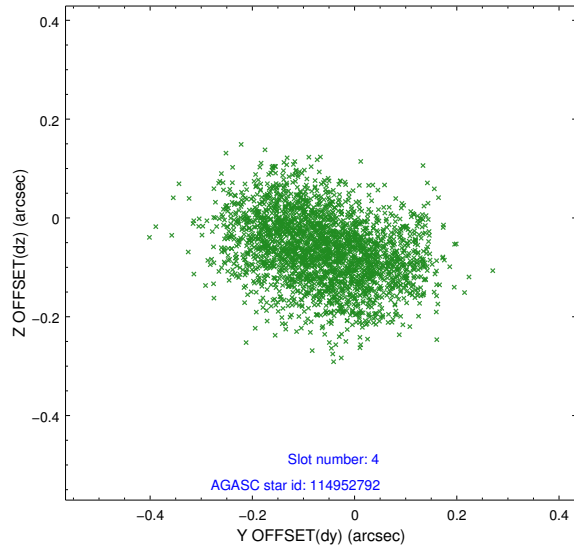
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1260	-0.050	-0.032	0.007	0.012	0.000000	0.000000	-766.16	-1736.44
1	FID	ACIS-S-4	7.19	1260	0.182	0.033	0.007	0.016	0.000000	0.000000	2146.79	170.93
2	FID	ACIS-S-5	7.22	1260	-0.164	0.007	0.007	0.013	0.000000	0.000000	-1817.64	165.86
3	GUIDE	114950168	7.84	2520	-0.221	-0.061	0.055	0.087	187.143398	12.117441	1649.73	1580.53
4	GUIDE	114952792	9.49	2516	-0.062	-0.065	0.131	0.203	187.070263	12.344747	2143.80	879.29
5	GUIDE	114952824	8.57	2519	0.008	0.129	0.084	0.129	187.703904	12.486727	176.00	-283.95
6	GUIDE	114955056	8.33	2520	0.297	0.007	0.073	0.117	187.914001	12.127854	-922.27	720.56
7	GUIDE	114956144	9.78	2517	-0.024	-0.007	0.118	0.201	187.100545	12.039156	1709.74	1895.76

## 2.4 Star Slots

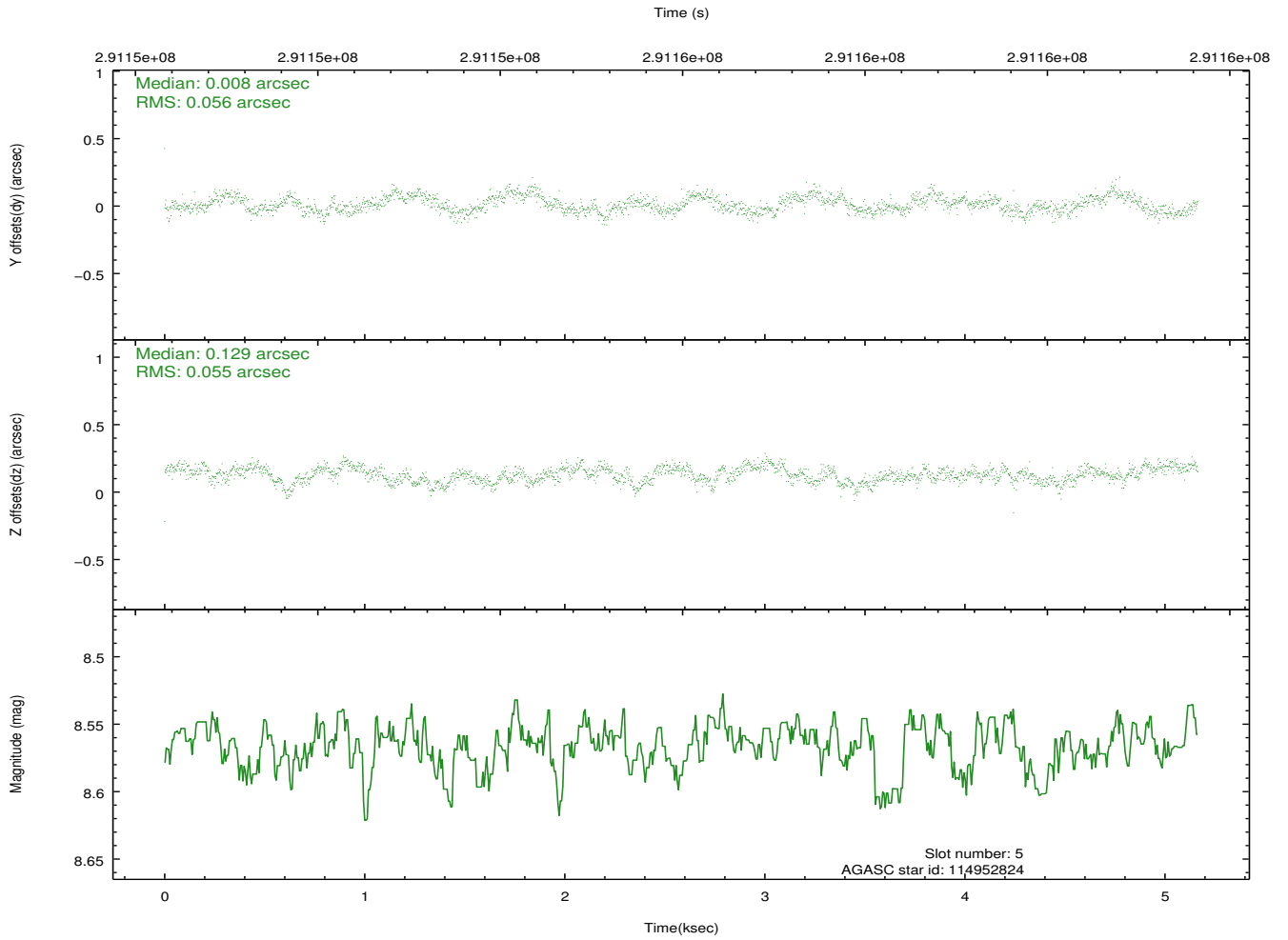
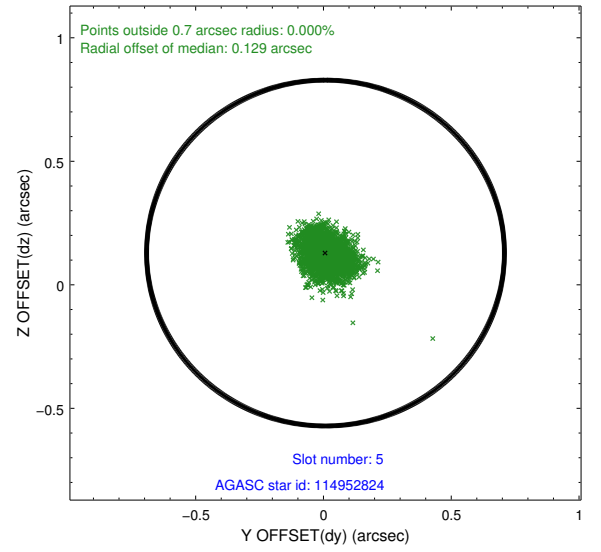
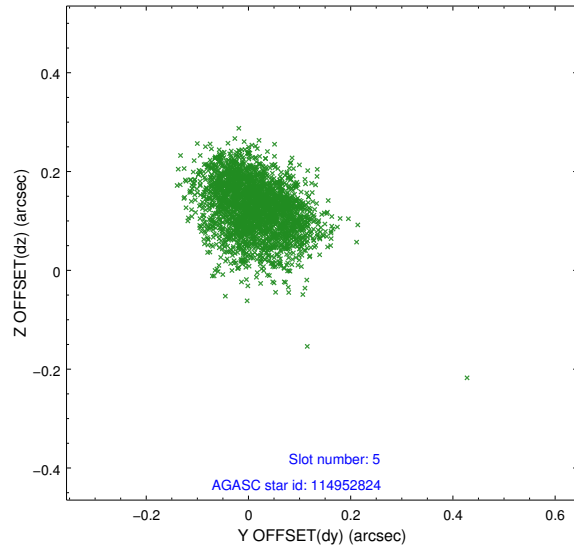
### 2.4.1 Slot 3



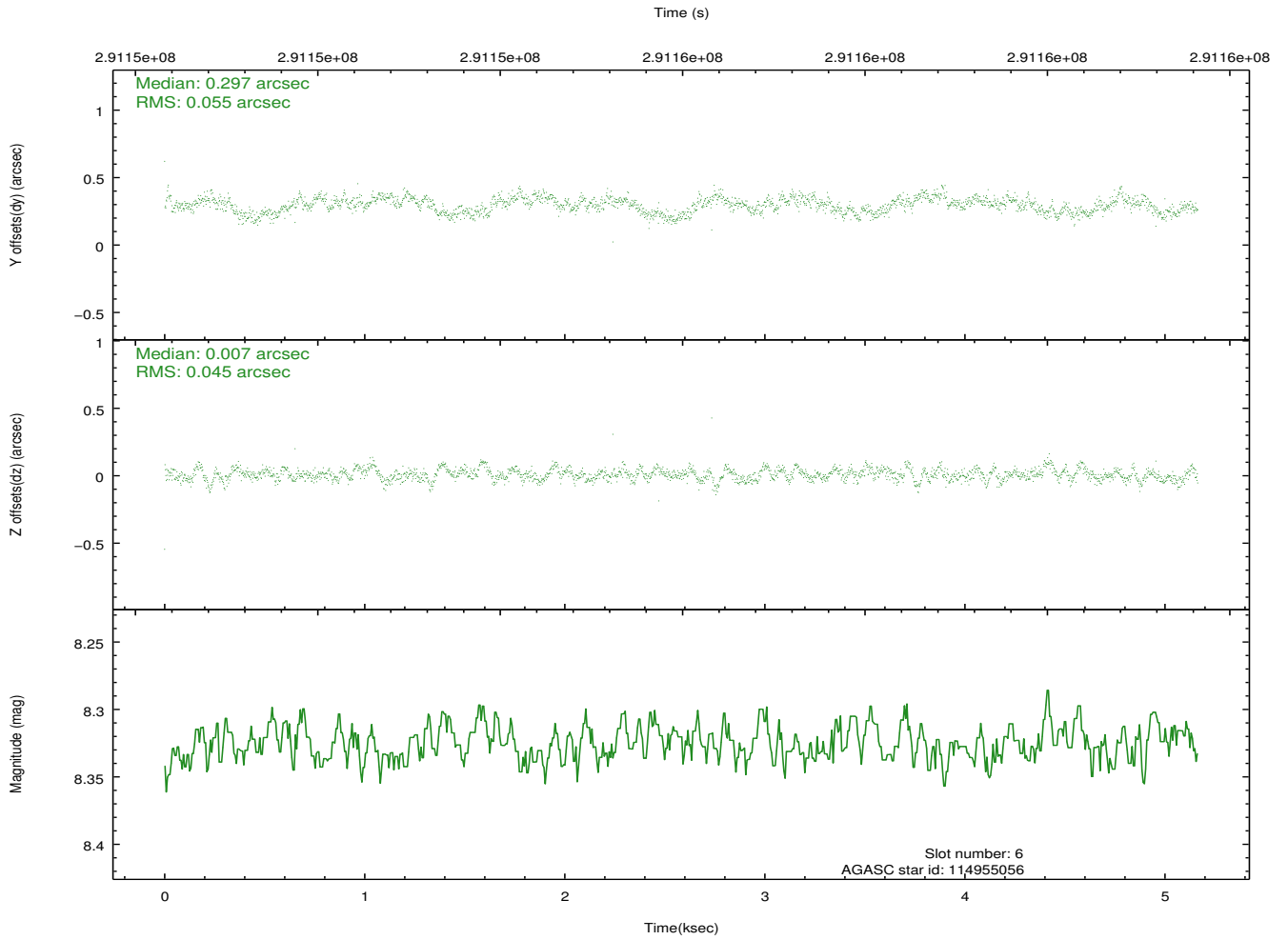
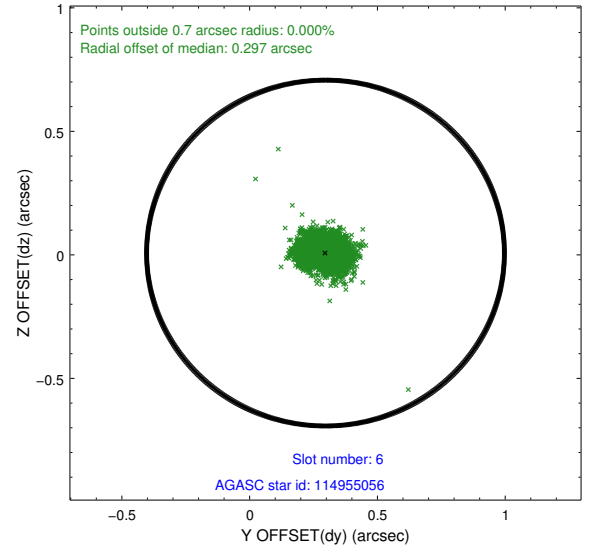
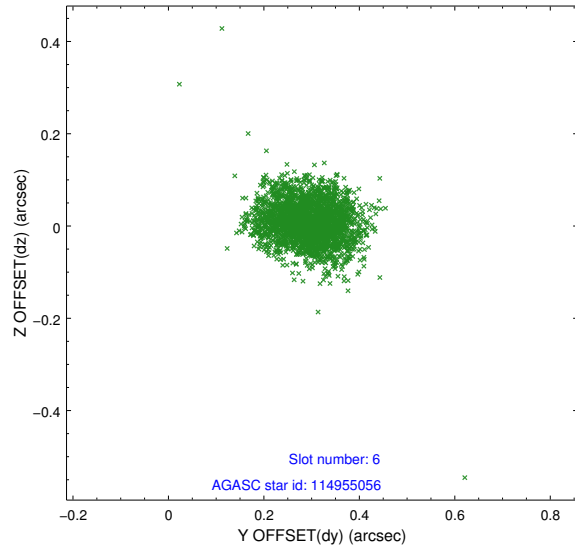
## 2.4.2 Slot 4



### 2.4.3 Slot 5

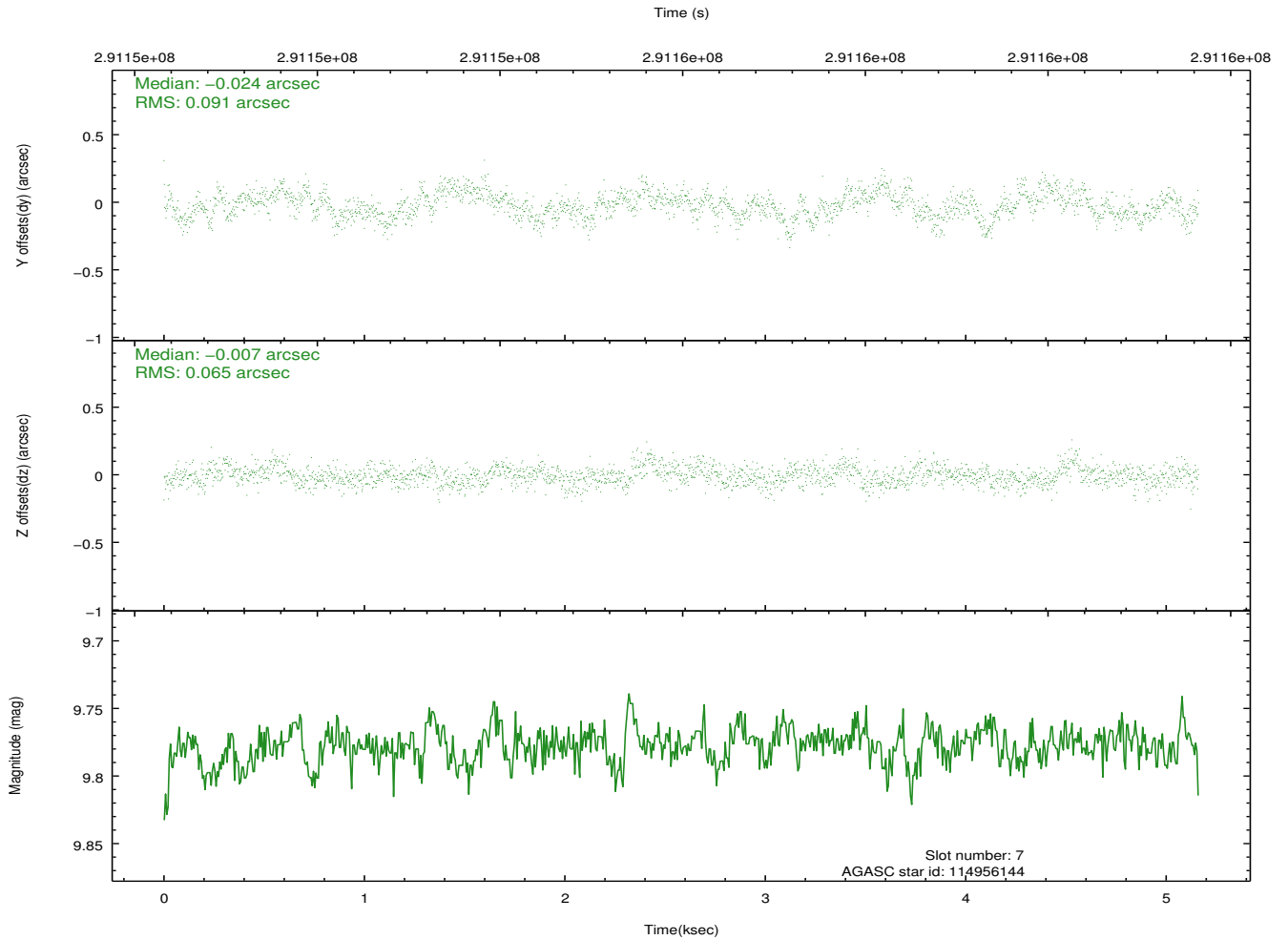
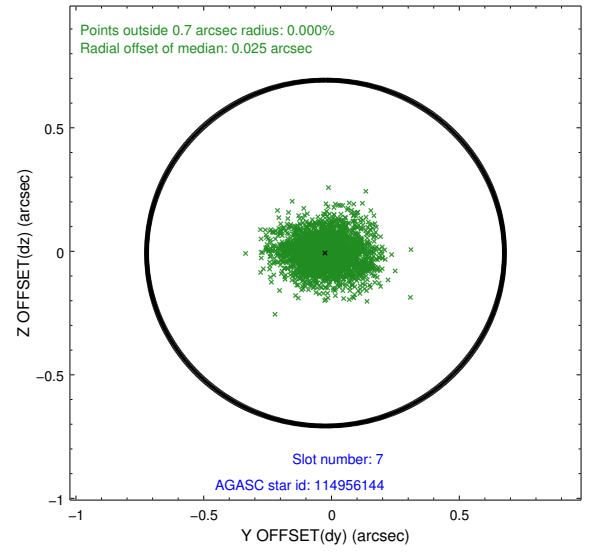
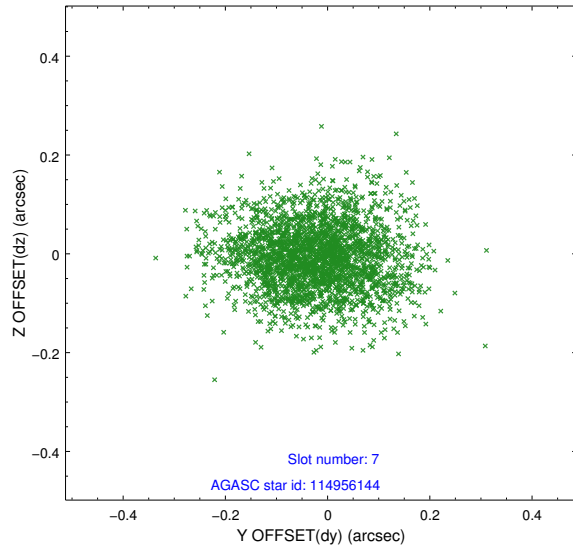


## 2.4.4 Slot 6



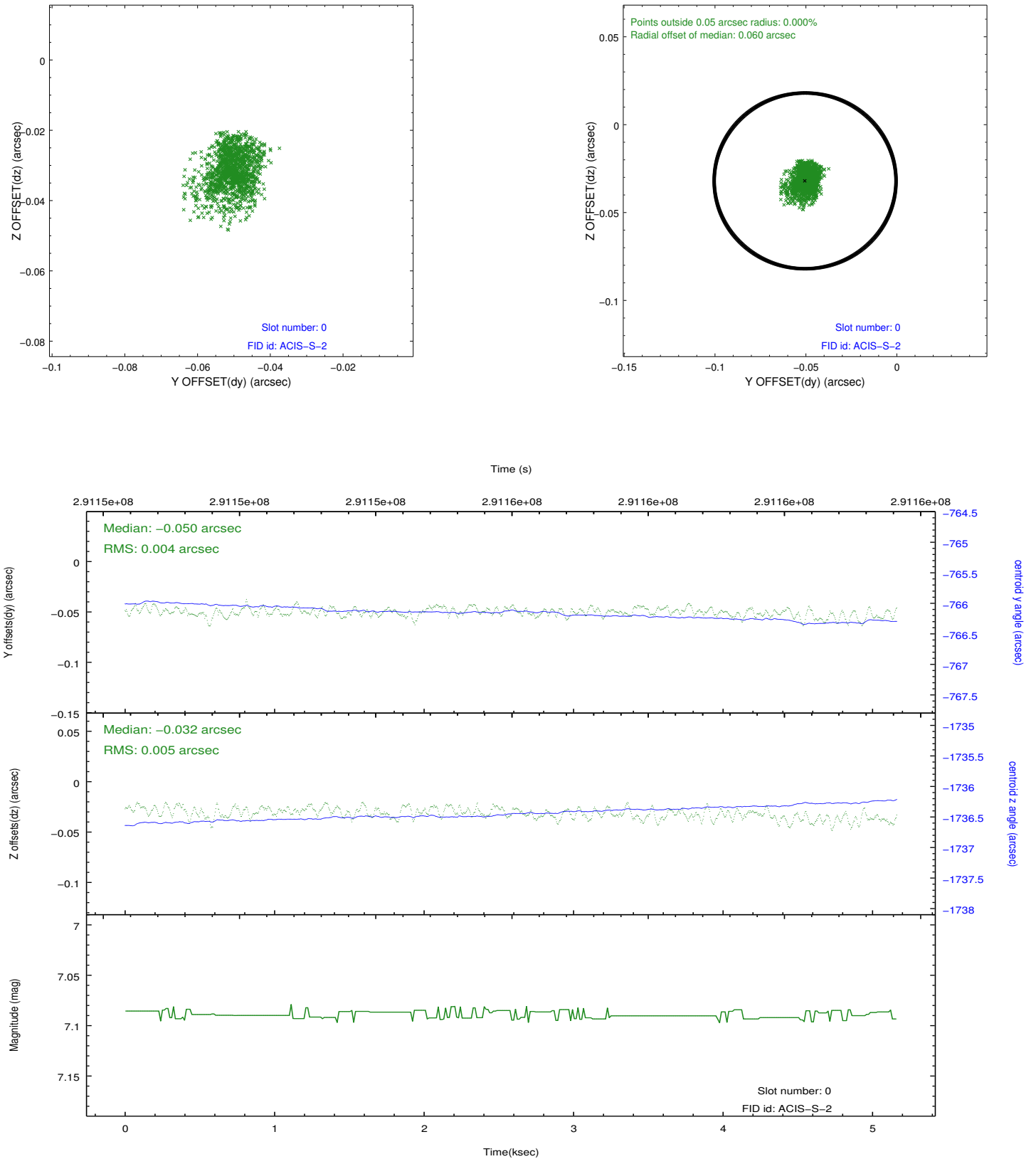


## 2.4.5 Slot 7

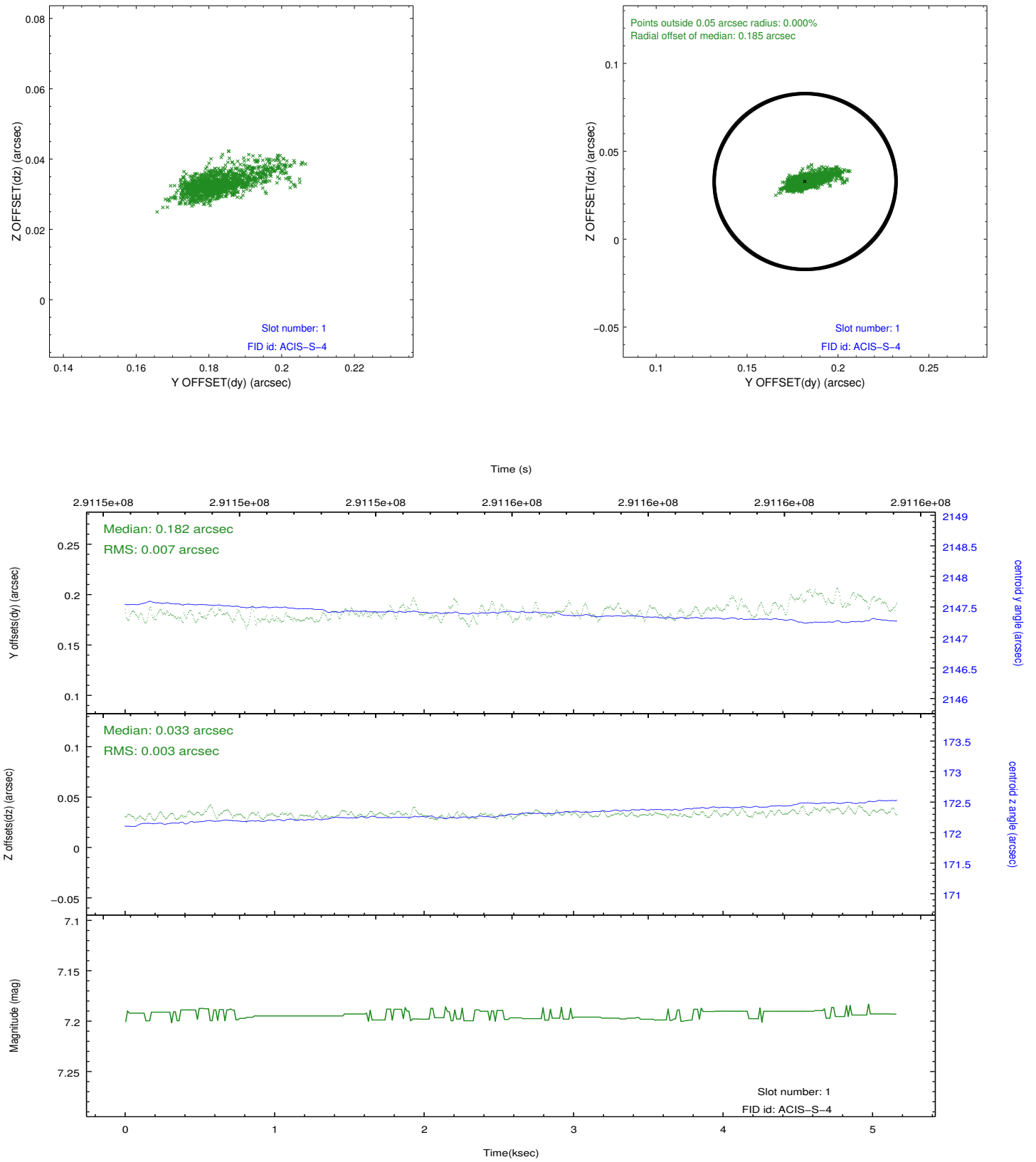


## 2.5 FID Slots

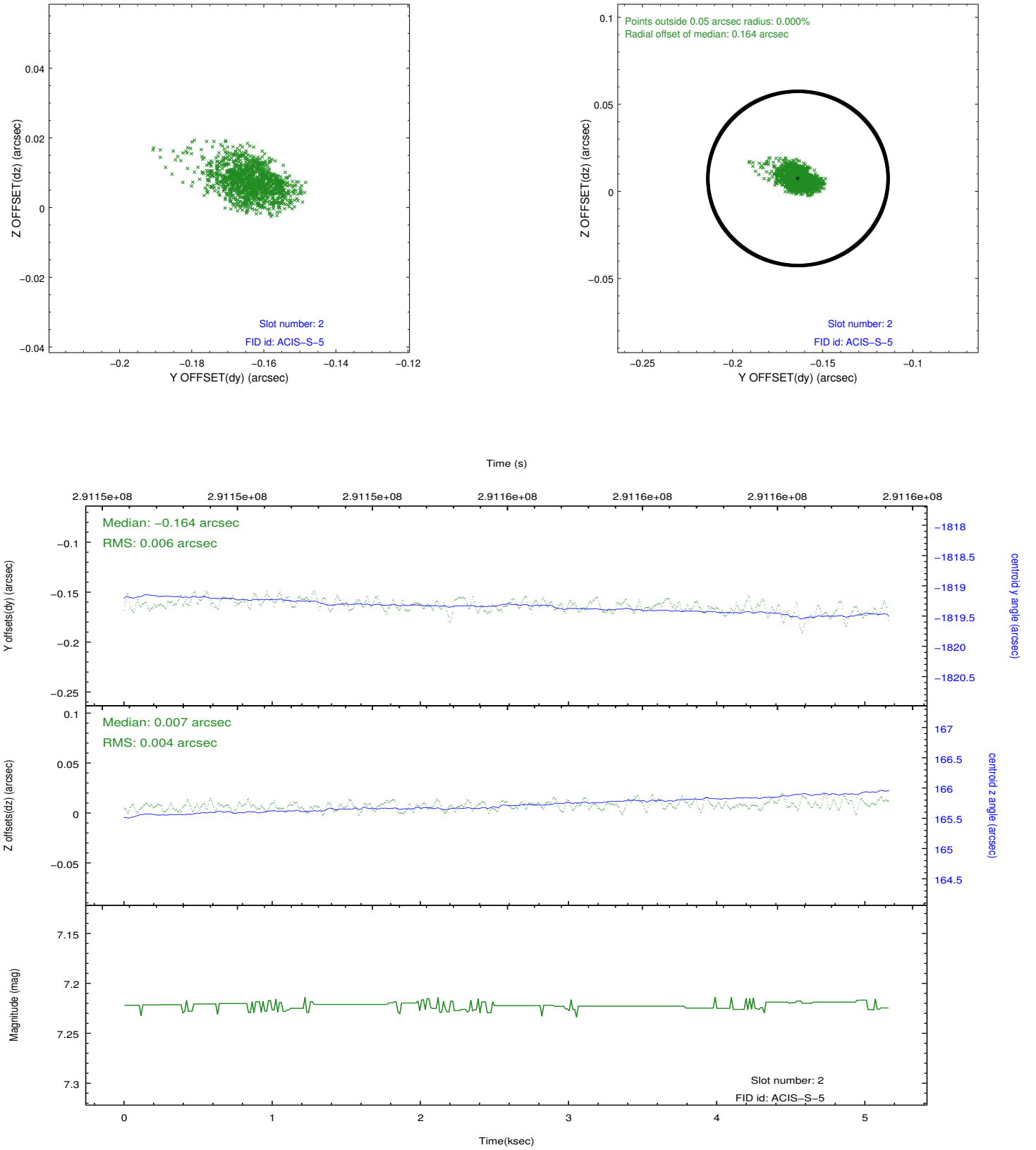
### 2.5.1 Slot 0



## 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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.16319969

### A.2 Comments

Monitoring constraint met.