

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2160 - L2 Version 3  
Chandra X-Ray Center

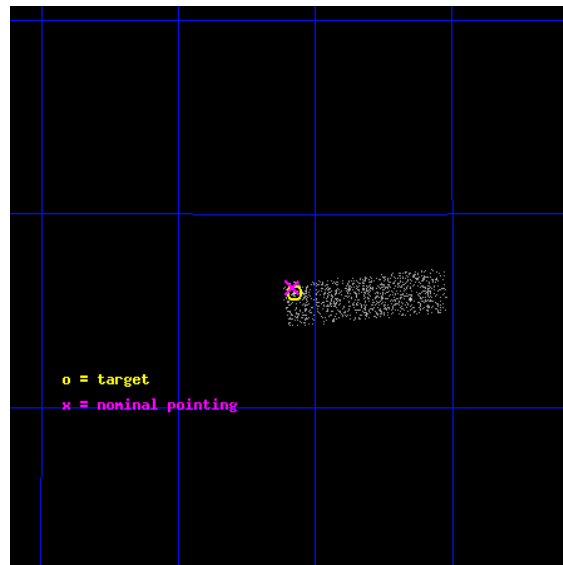
L2 Processing Date : Sep 7 2012

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# 1 Front

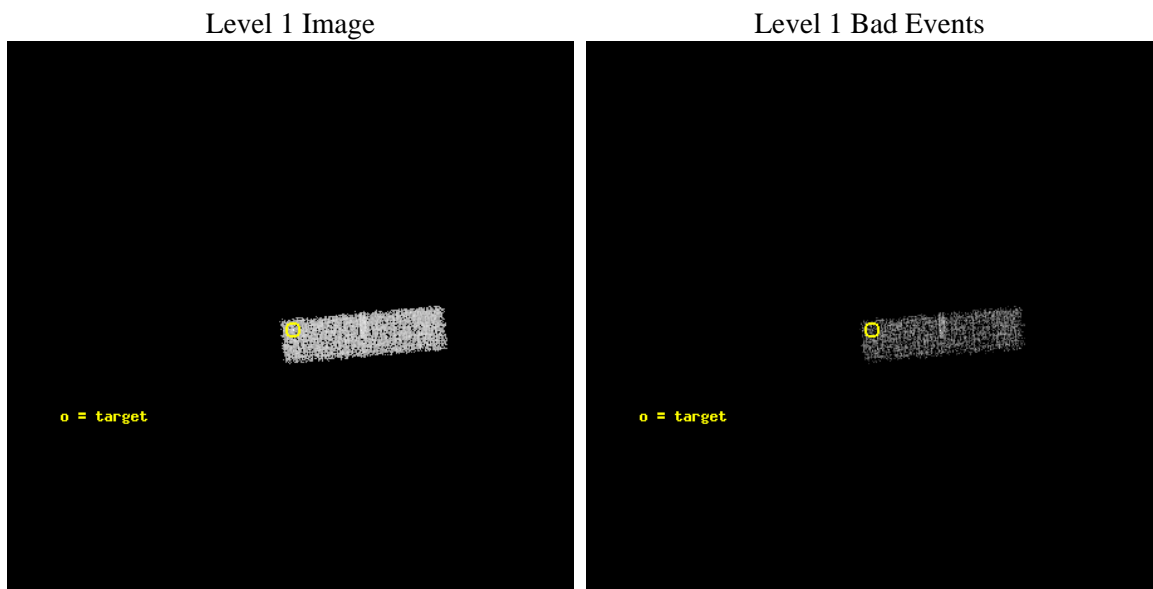
seq_num	700350	Sequence number
obs_id	2160	Observation id
title	RED QUASARS AND THE X-RAY BACKGROUND	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASSJ095504+1705	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.769167	Observer's specified target RA [deg]
dec_targ	17.098917	Observer's specified target Dec [deg]
ra_nom	148.77155322431	Nominal RA [deg]
dec_nom	17.103231417663	Nominal Dec [deg]
roll_nom	84.955967090794	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4131.999984622	Sum of GTIs [s]
livetime	3930.3719058518	Livetime [s]
ontime3	4131.999984622	Sum of GTIs [s]
l2events	1198	Number of level 2 events



## 2 OBI

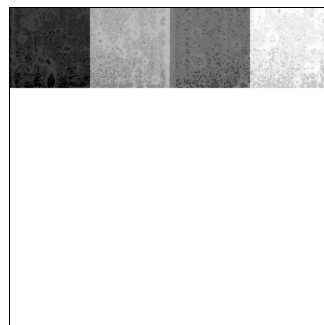
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4131.999984622	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime3	4131.999984622	Sum of GTIs [s]
date	2012-09-07T05:03:00	Date and time of file creation	l1events	18943	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	18943
rejected events	17530
rejected %	92%

	<b>ccd 3</b>
grade 0 events	610
	3%
grade 1 events	4
	0%
grade 2 events	423
	2%
grade 3 events	200
	1%
grade 4 events	192
	1%
grade 5 events	306
	1%
grade 6 events	420
	2%
grade 7 events	16788
	88%

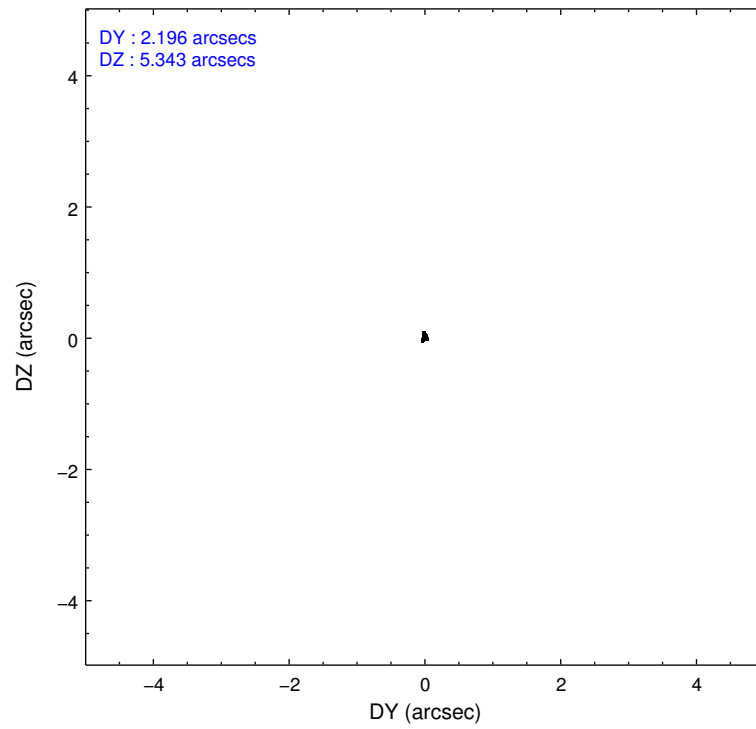
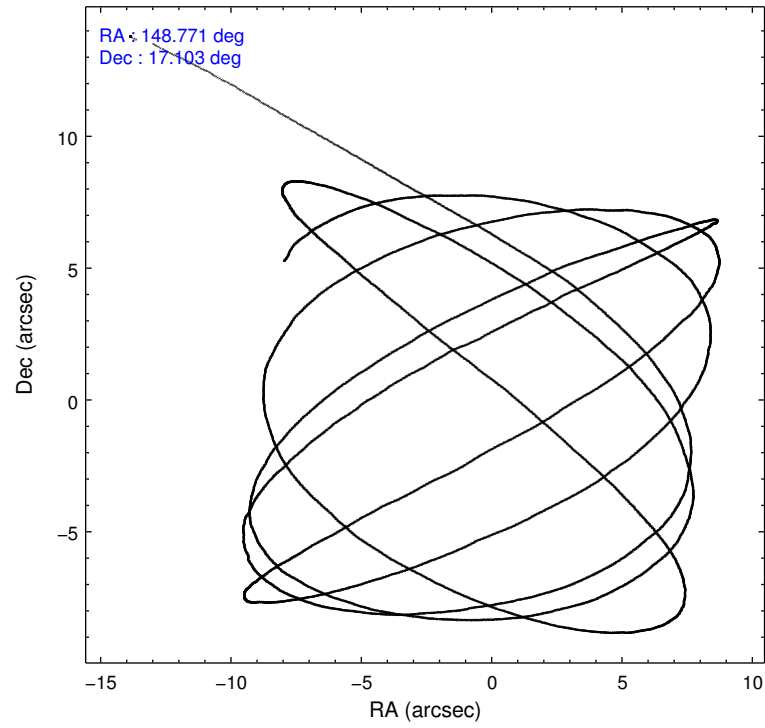


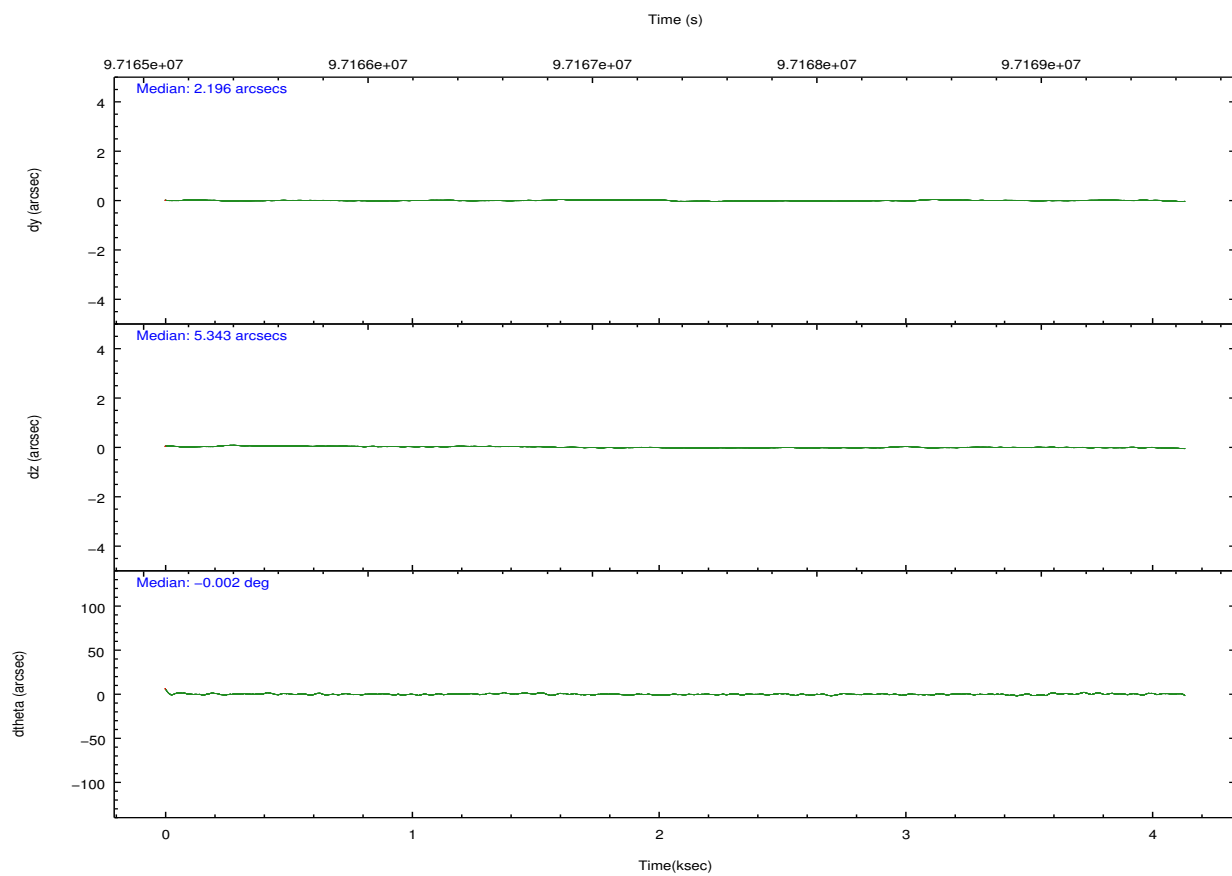
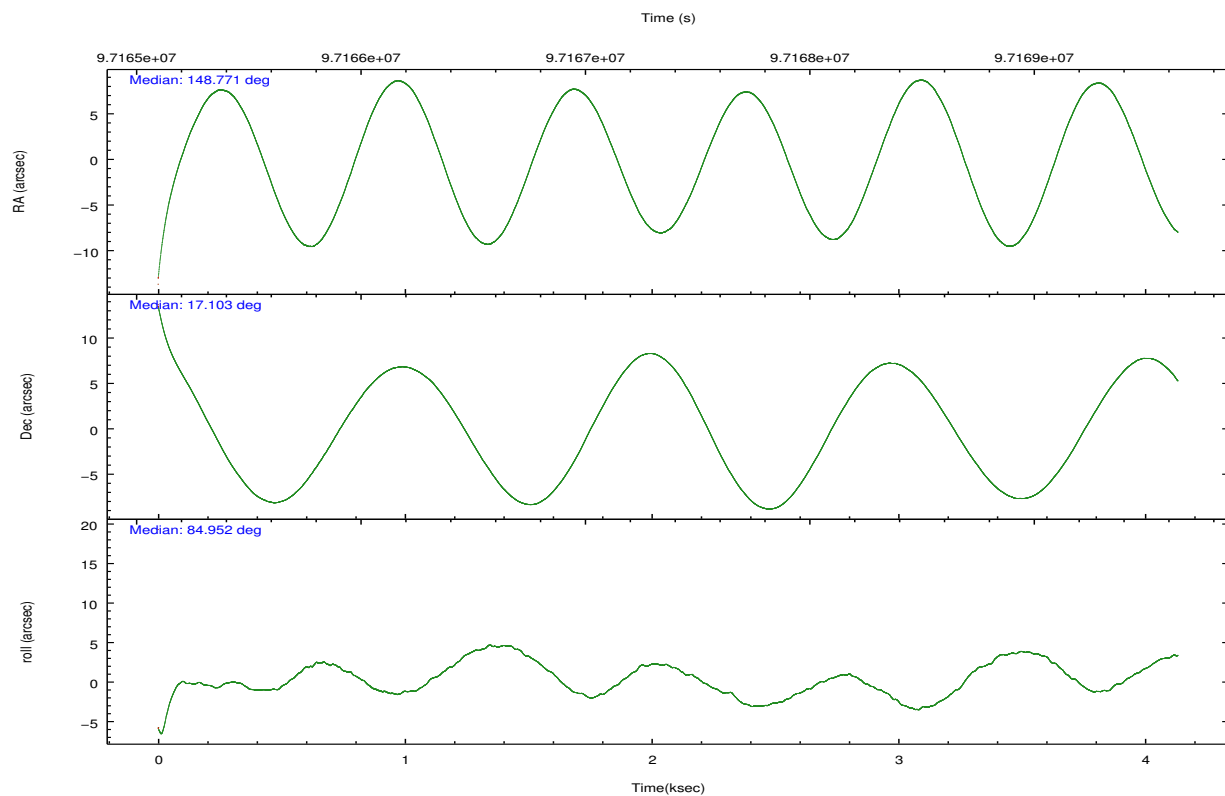
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3	ACIS-3
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	148.783636	148.7715532243137
[deg] Pointing Dec	17.078227	17.10323141766287
[deg] Pointing Roll	84.743746	84.95596709079432
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	97165435.184000	97163977.908611
Observation start date	2001-01-29T14:22:51	2001-01-29T13:59:37
[s] Observation end time (MET)	97169435.184000	97170425.67136
Observation end date	2001-01-29T15:29:31	2001-01-29T15:47:05
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	CUSTOM	1/4
Subarray start row	769	769
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



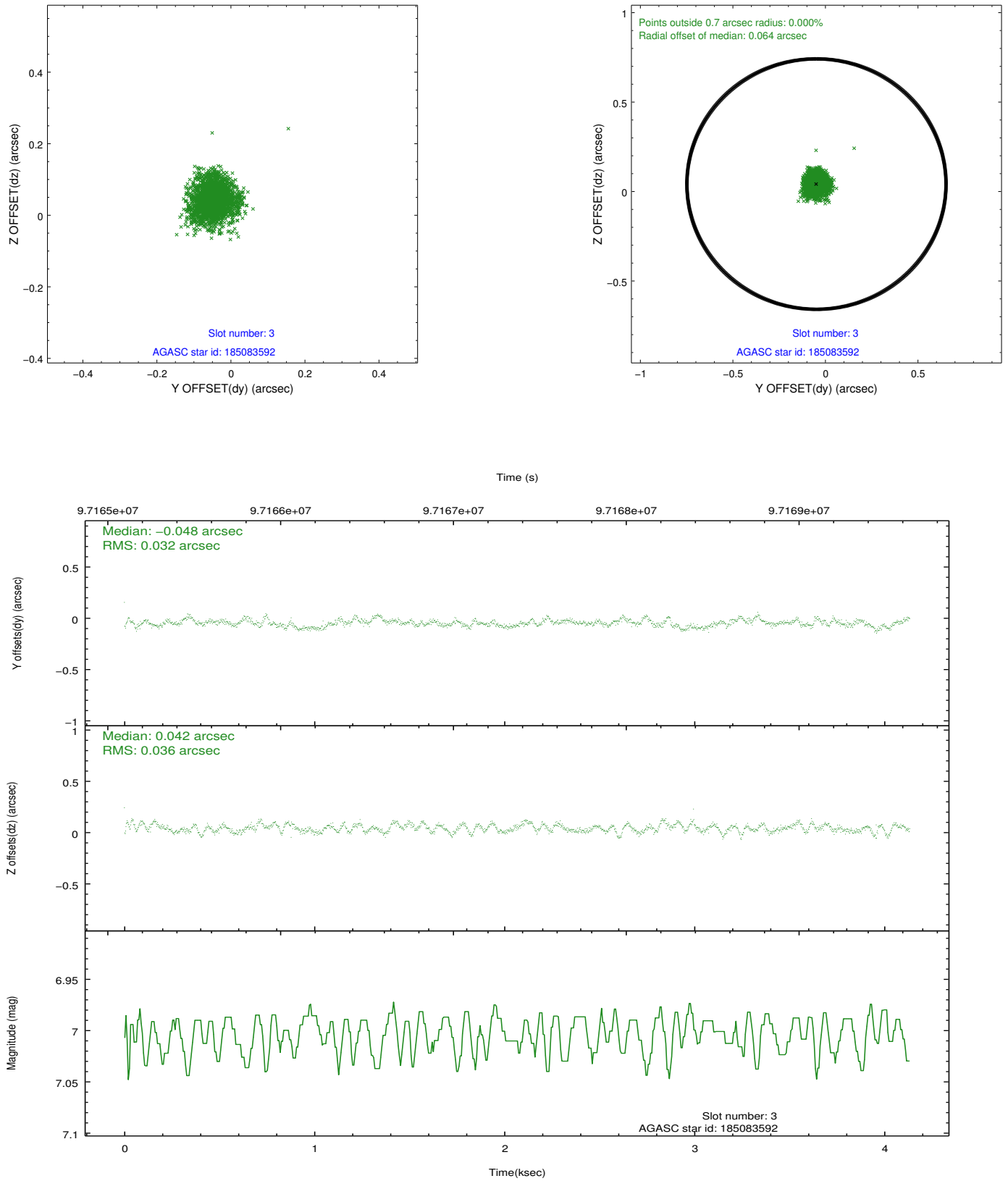


### Slot Statistics

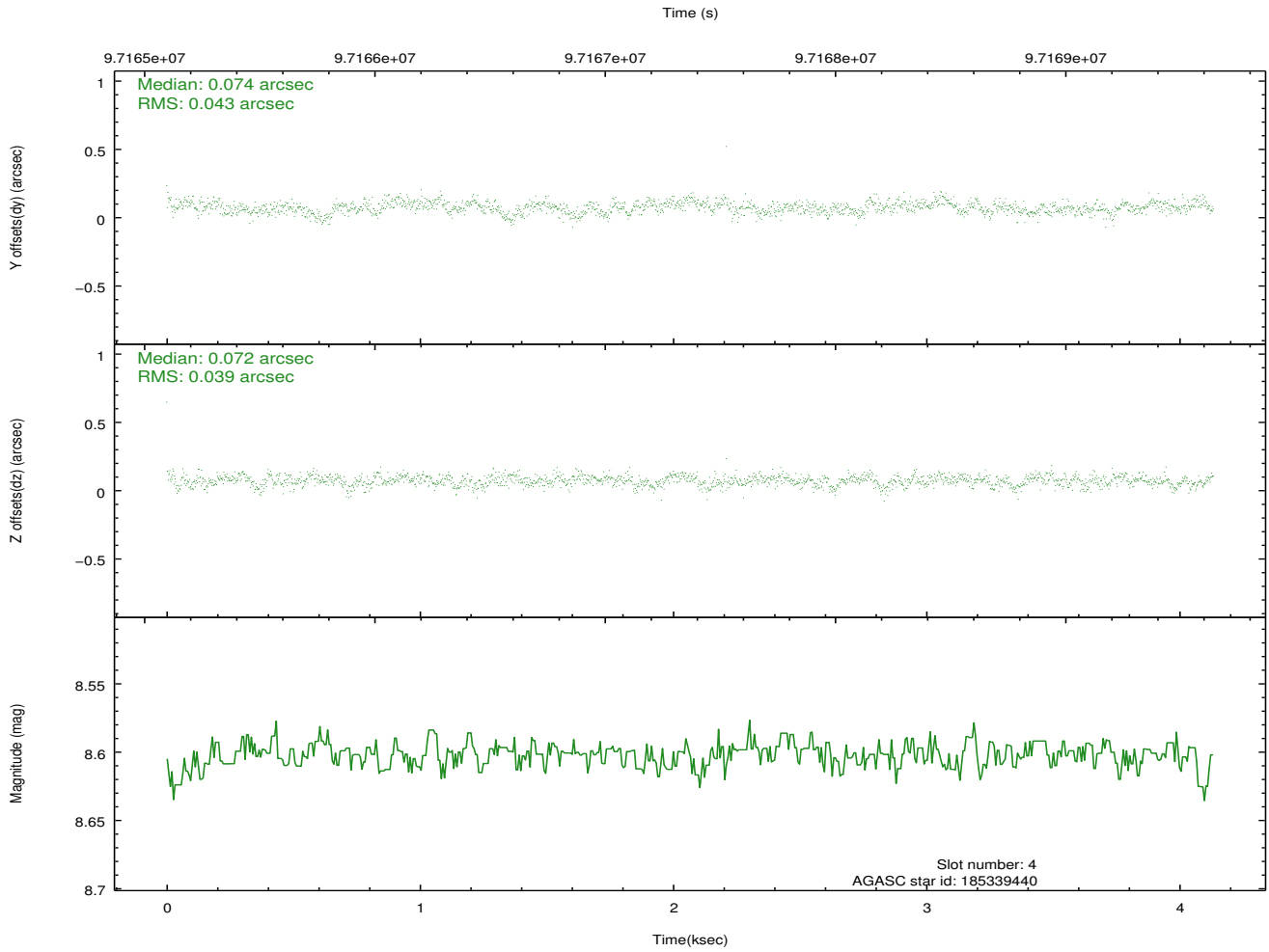
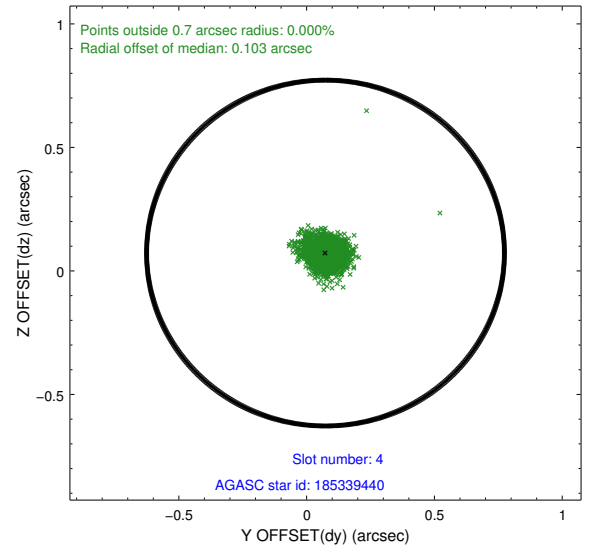
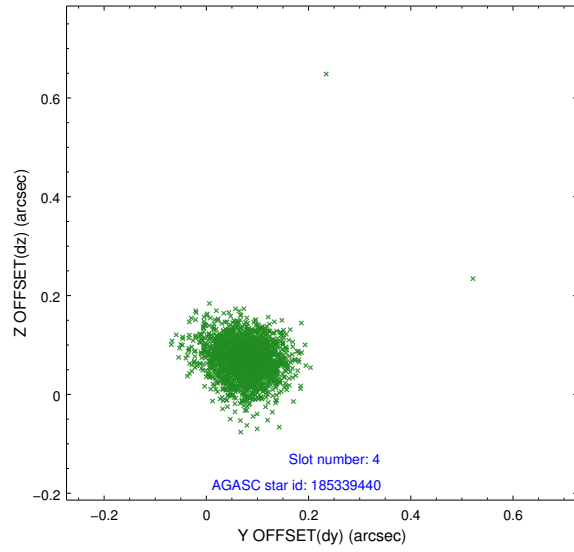
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1009	-0.021	-0.035	0.009	0.015	0.000000	0.000000	-756.57	-835.10
1	FID	ACIS-I-4	7.18	1008	-0.040	0.031	0.006	0.011	0.000000	0.000000	2156.79	1070.39
2	FID	ACIS-I-5	7.23	1009	-0.041	0.073	0.009	0.014	0.000000	0.000000	-1808.48	1069.99
3	GUIDE	185083592	7.00	2017	-0.048	0.042	0.052	0.080	149.390481	16.459076	-2023.94	-2290.79
4	GUIDE	185339440	8.60	2017	0.074	0.072	0.060	0.098	148.983258	17.541515	1723.48	-530.85
5	GUIDE	184945256	8.85	2017	0.012	-0.028	0.064	0.109	148.379093	16.950394	-583.23	1344.48
6	GUIDE	184943544	8.91	2017	0.013	-0.075	0.070	0.119	148.569156	17.169263	259.34	764.93
7	GUIDE	185342864	9.38	2014	-0.052	-0.012	0.079	0.125	148.362201	17.656961	1944.27	1630.81

## 2.4 Star Slots

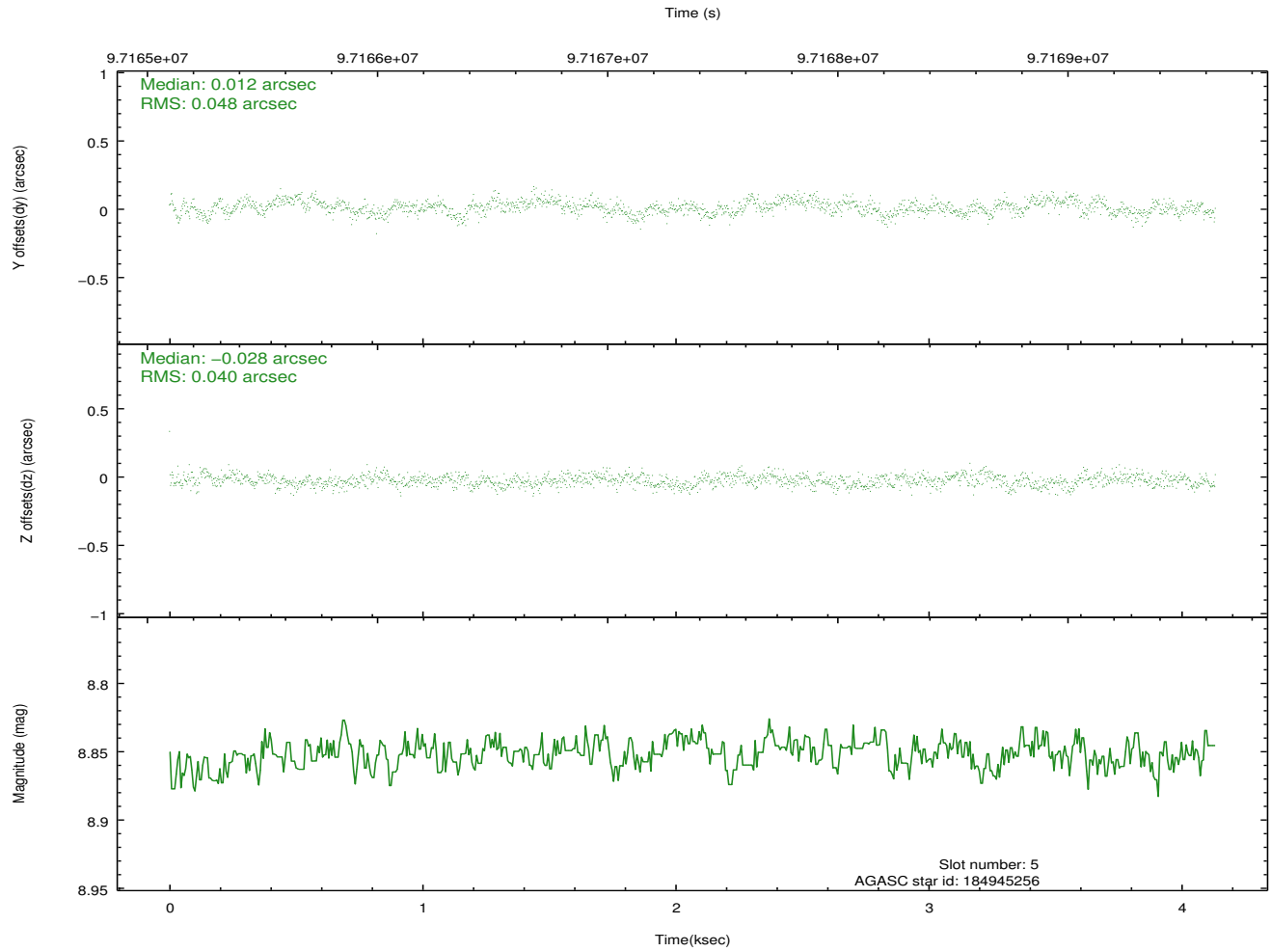
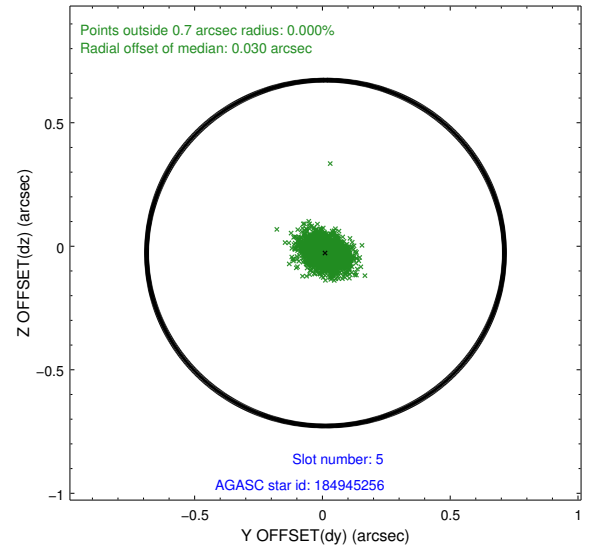
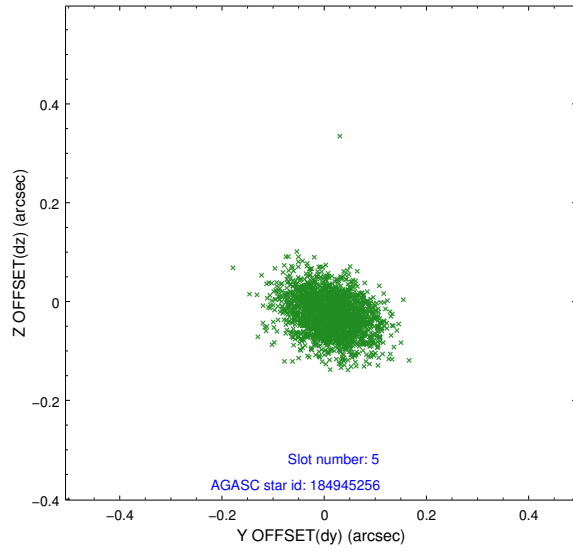
### 2.4.1 Slot 3



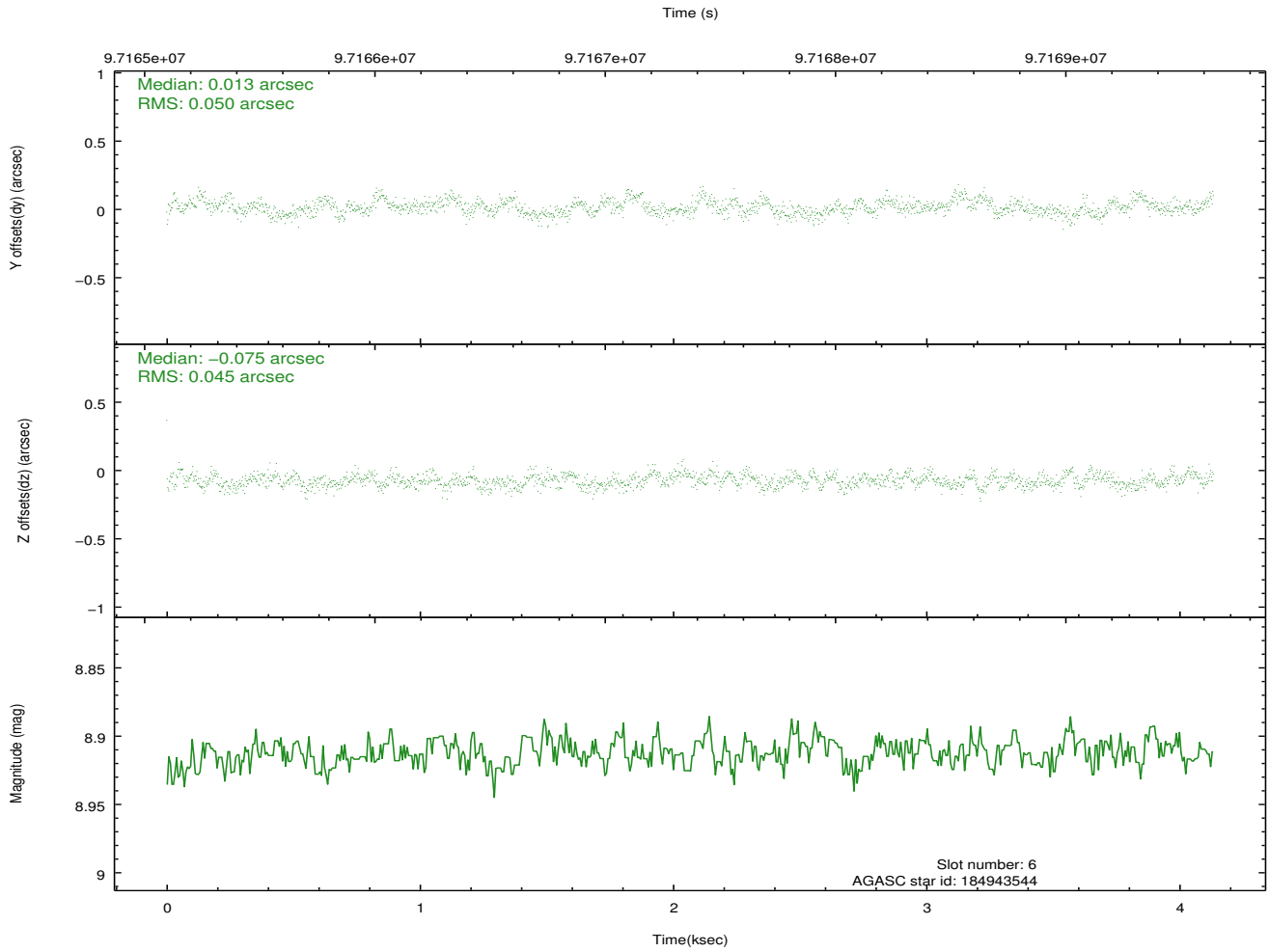
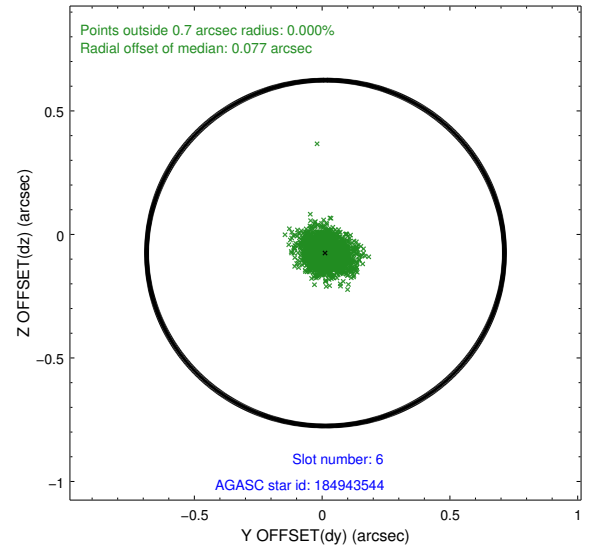
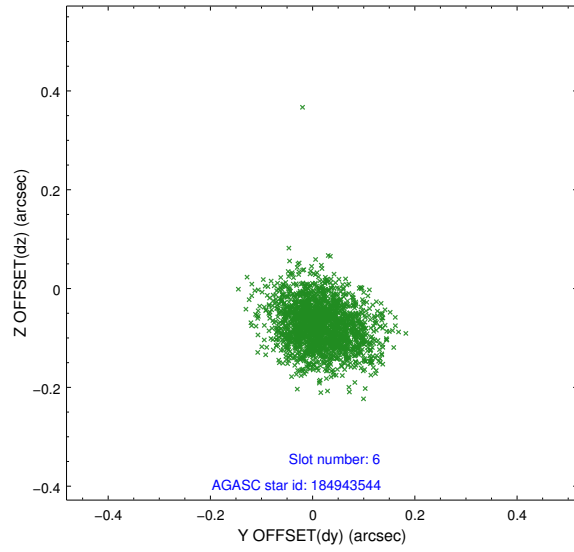
## 2.4.2 Slot 4



### 2.4.3 Slot 5

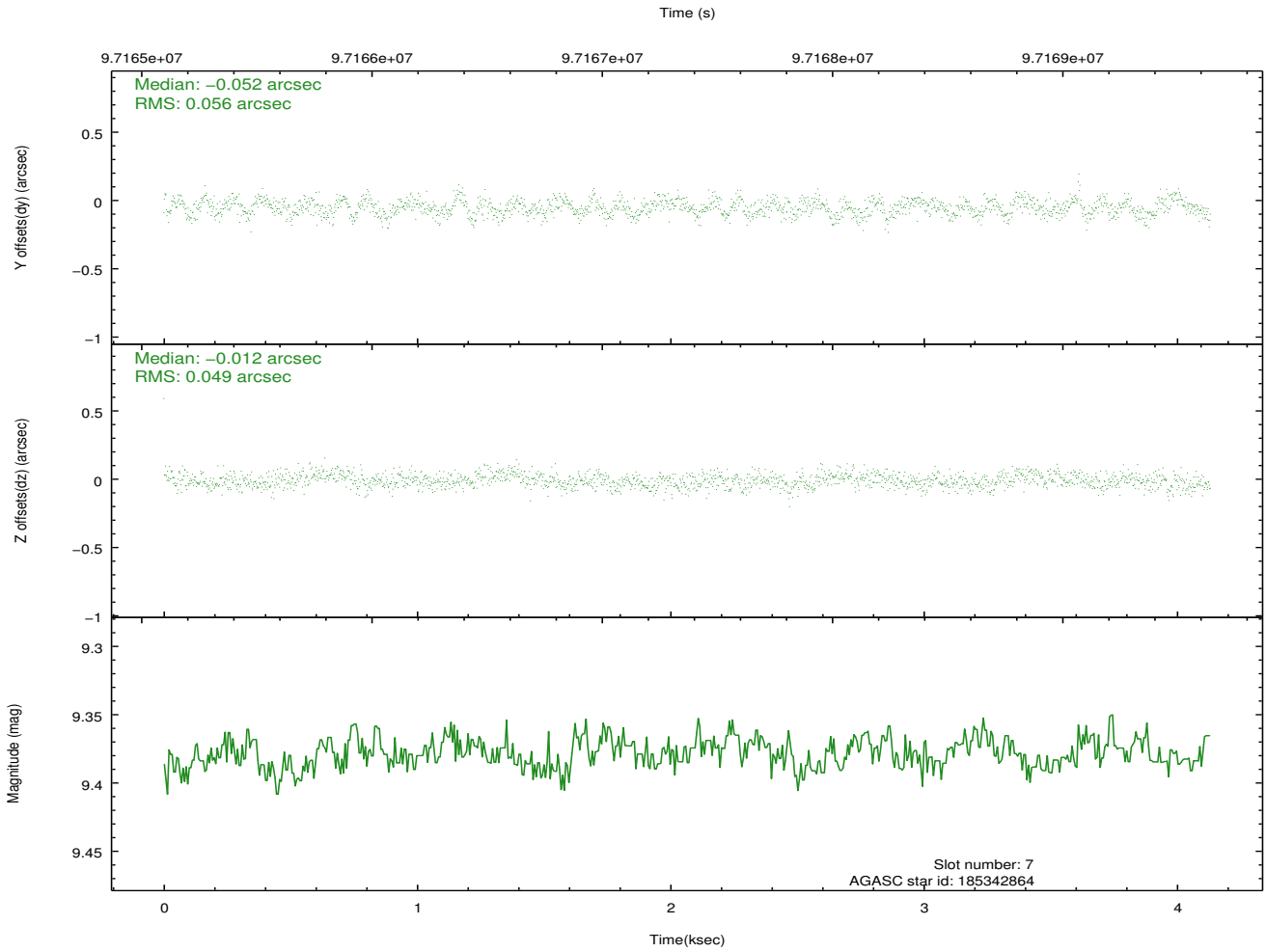
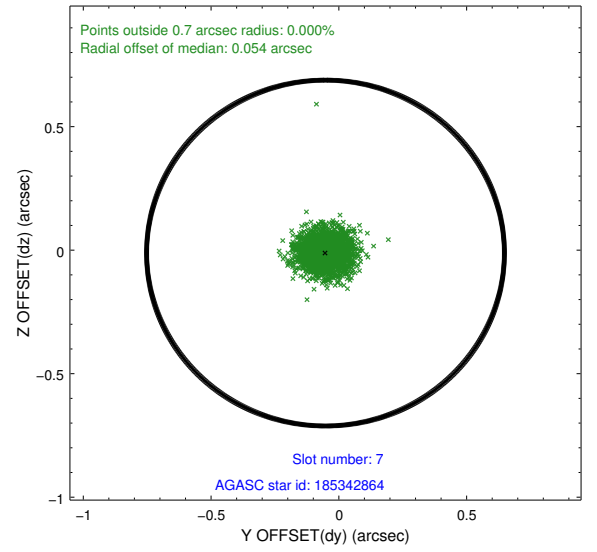
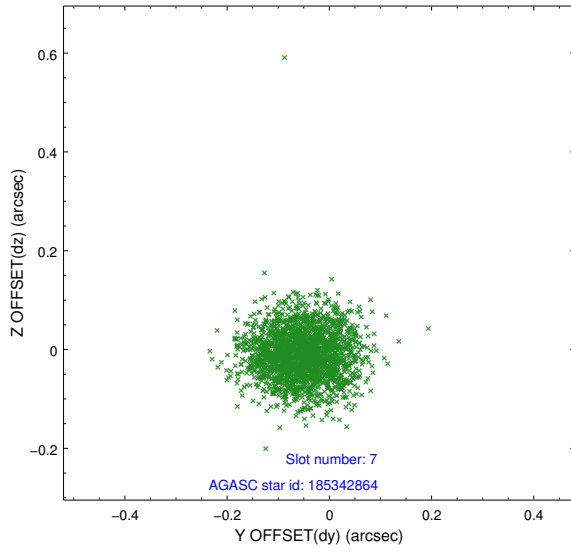


## 2.4.4 Slot 6



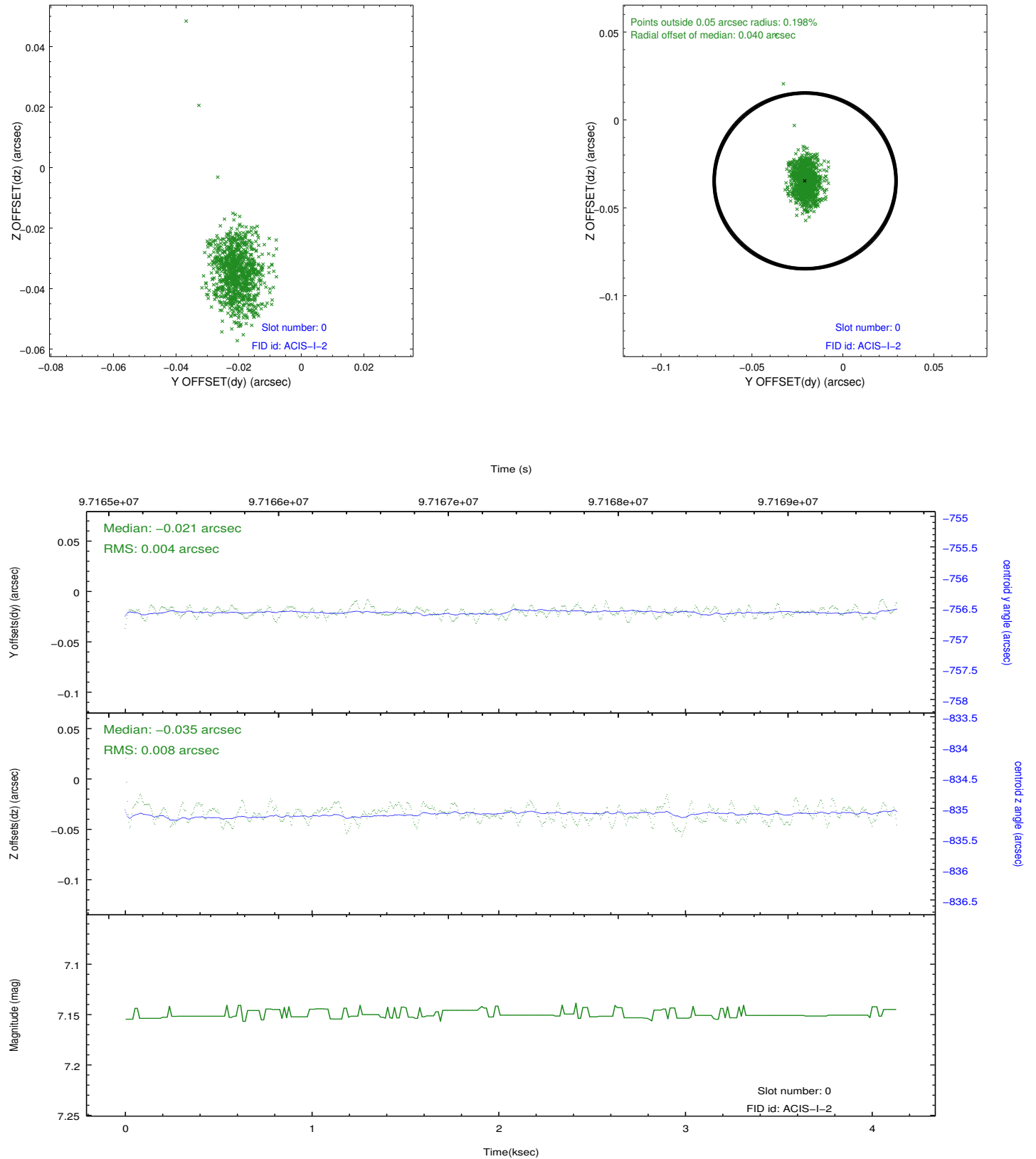


## 2.4.5 Slot 7

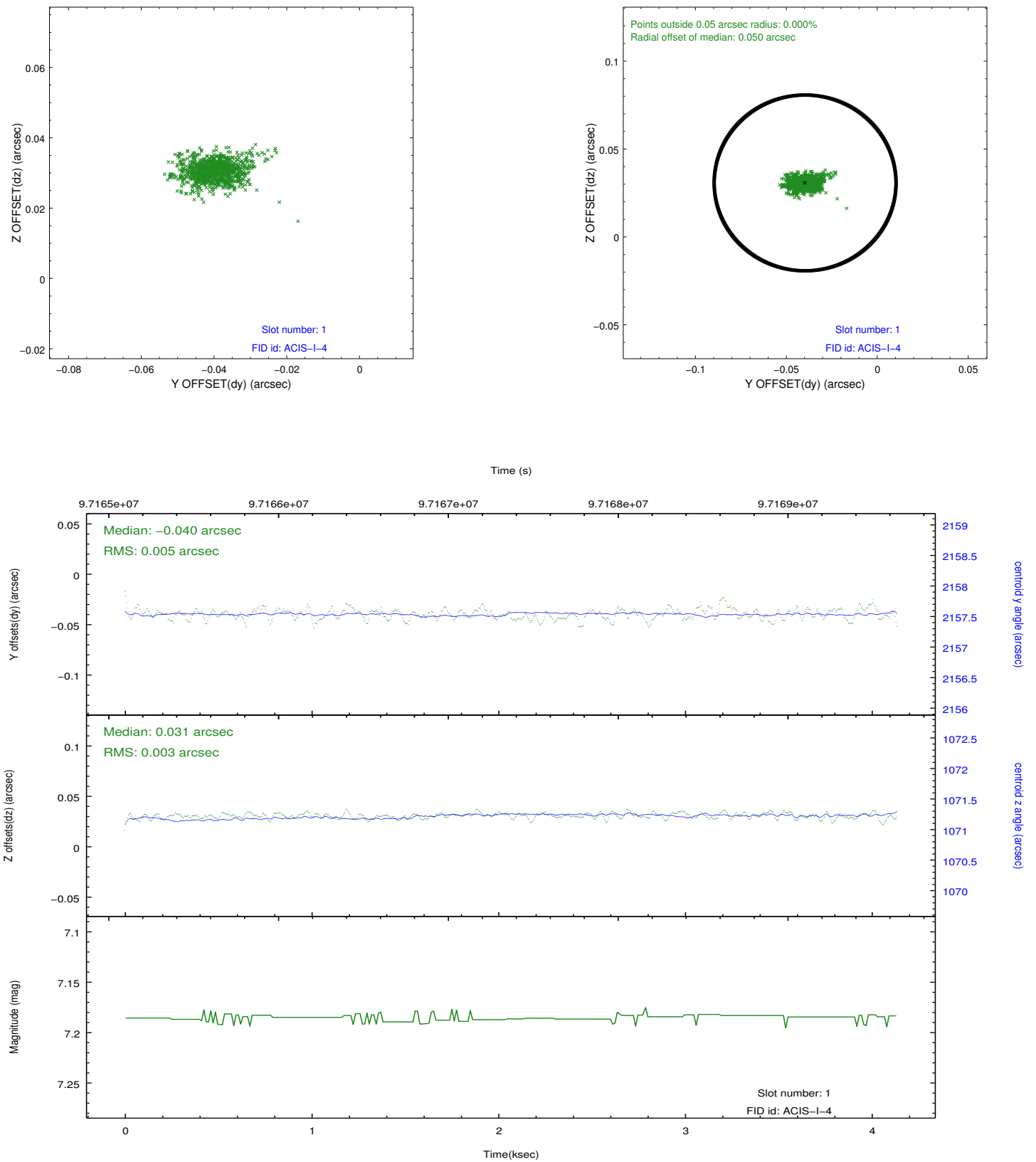


## 2.5 FID Slots

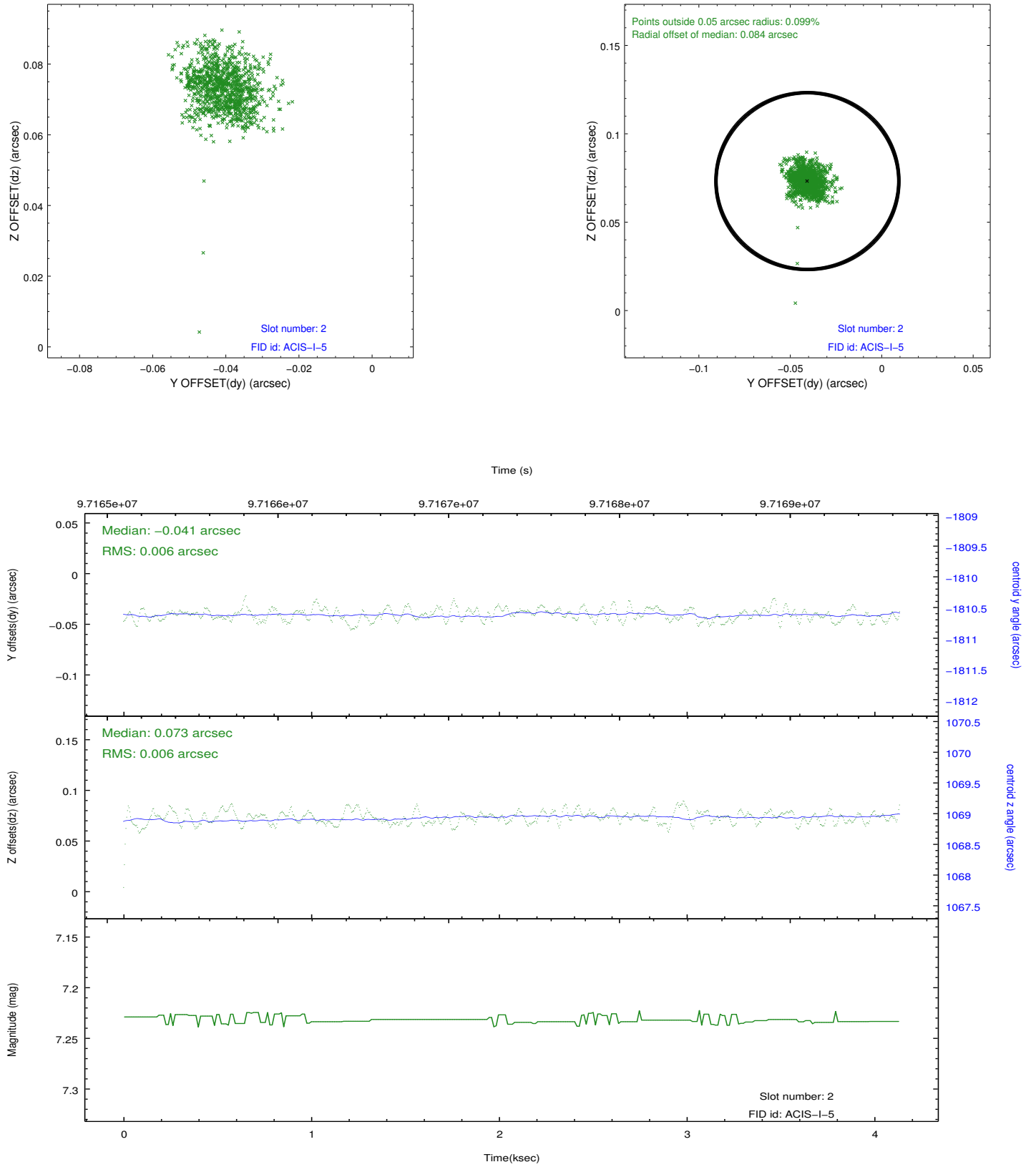
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.132

### A.2 Comments