

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10630 - L2 Version 3  
Chandra X-Ray Center

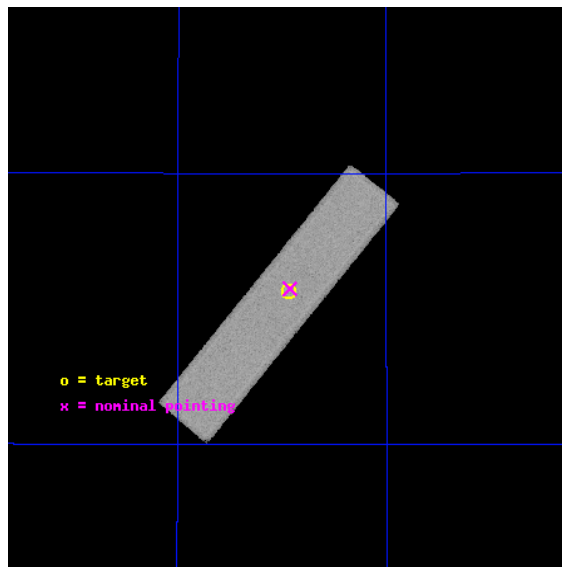
L2 Processing Date : Aug 13 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

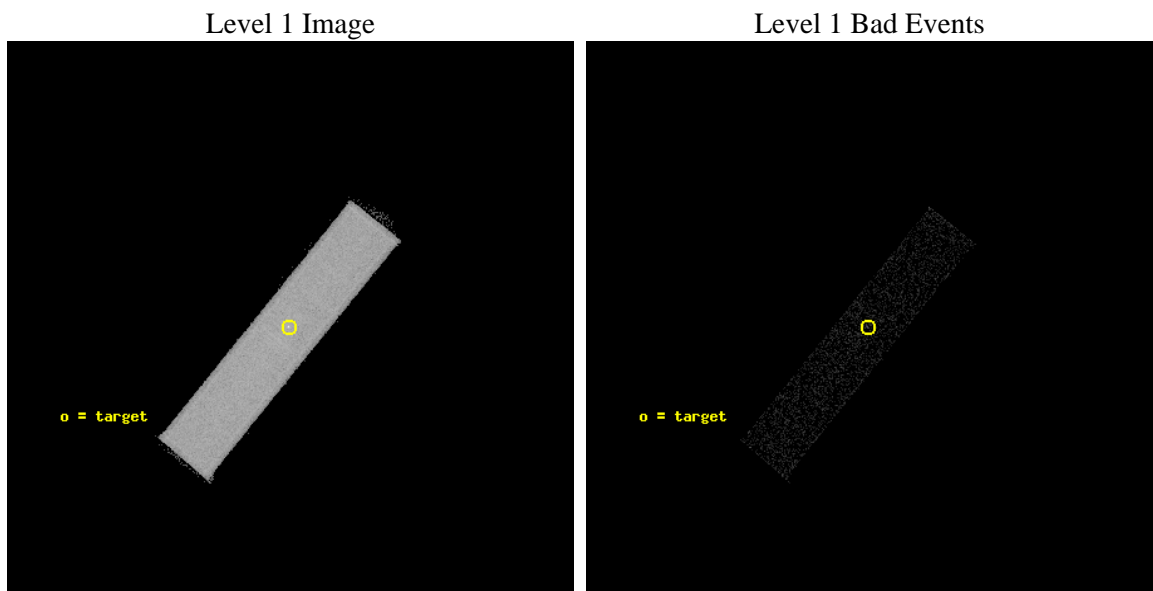
seq_num	290866	Sequence number
obs_id	10630	Observation id
title	AO-10 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.23140240712	Nominal RA [deg]
dec_nom	38.787609608316	Nominal Dec [deg]
roll_nom	129.12488759056	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2159.9313577414	[s]
livetime	2138.5800450958	Ontime multiplied by DTCOR
l2events	151518	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2159.9313577414	[s]
caldbver	4.5.1.1	&#160	l1events	193623	Number of level 1 events
date	2012-08-13T05:03:36	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

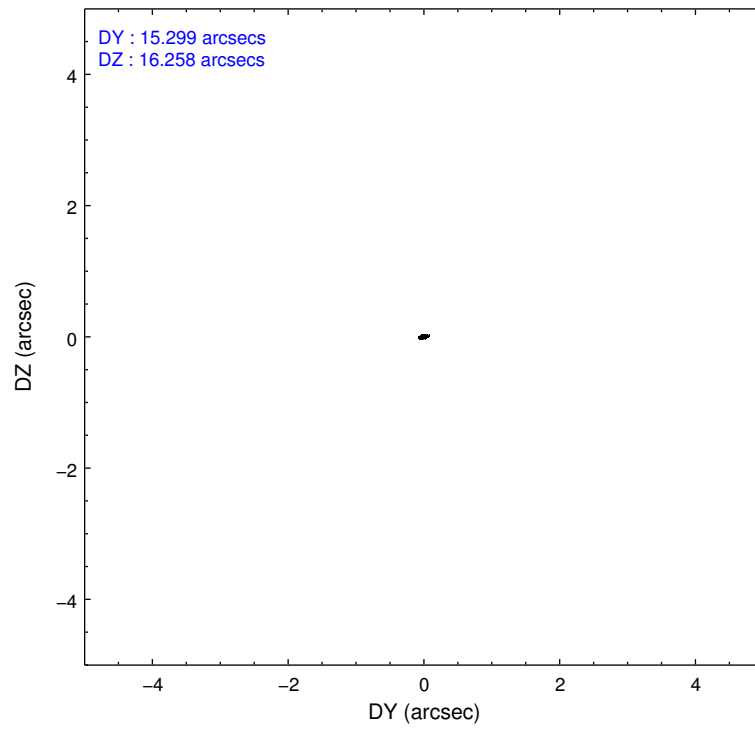
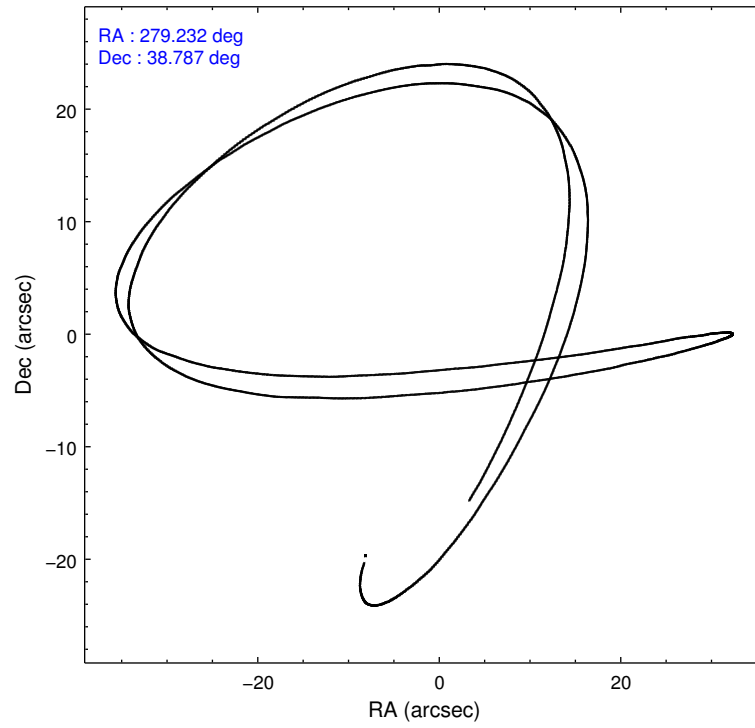
Level 1 Events

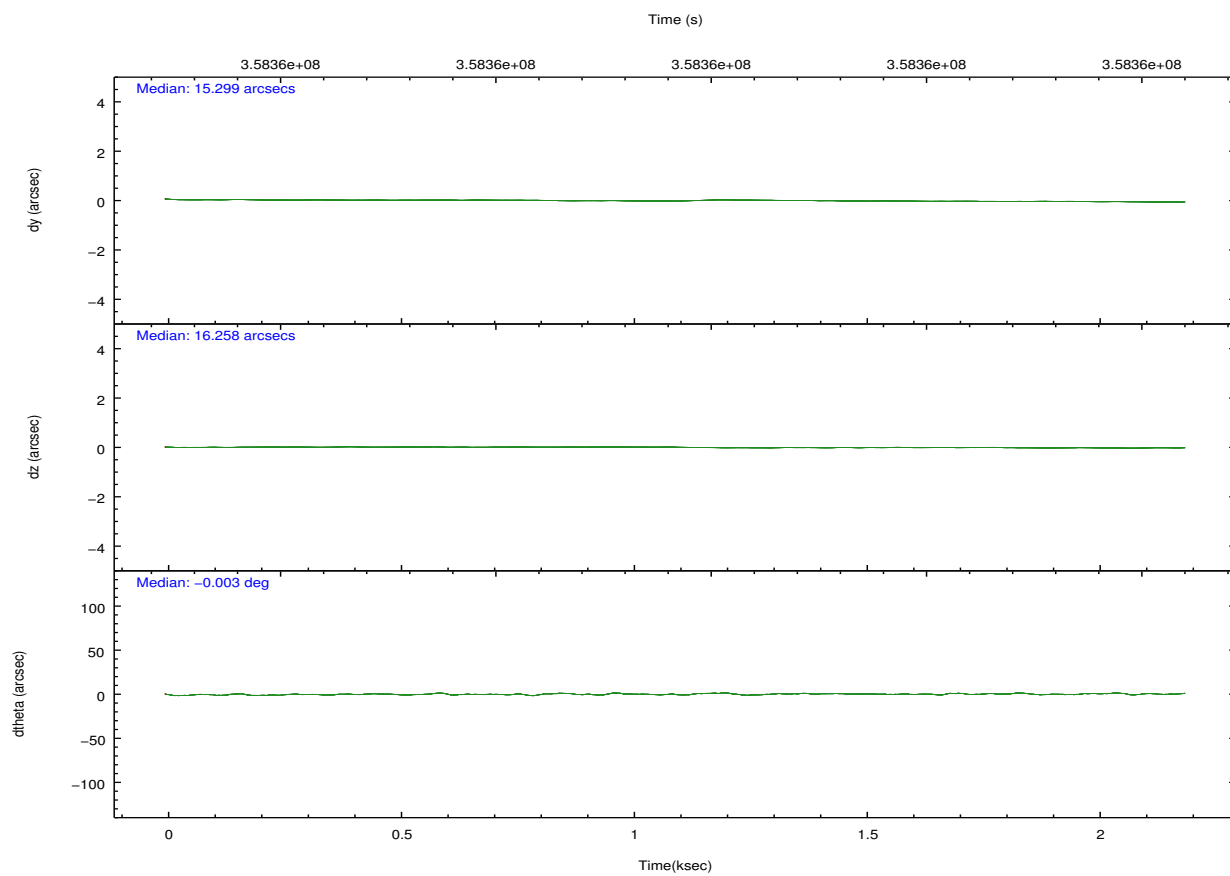
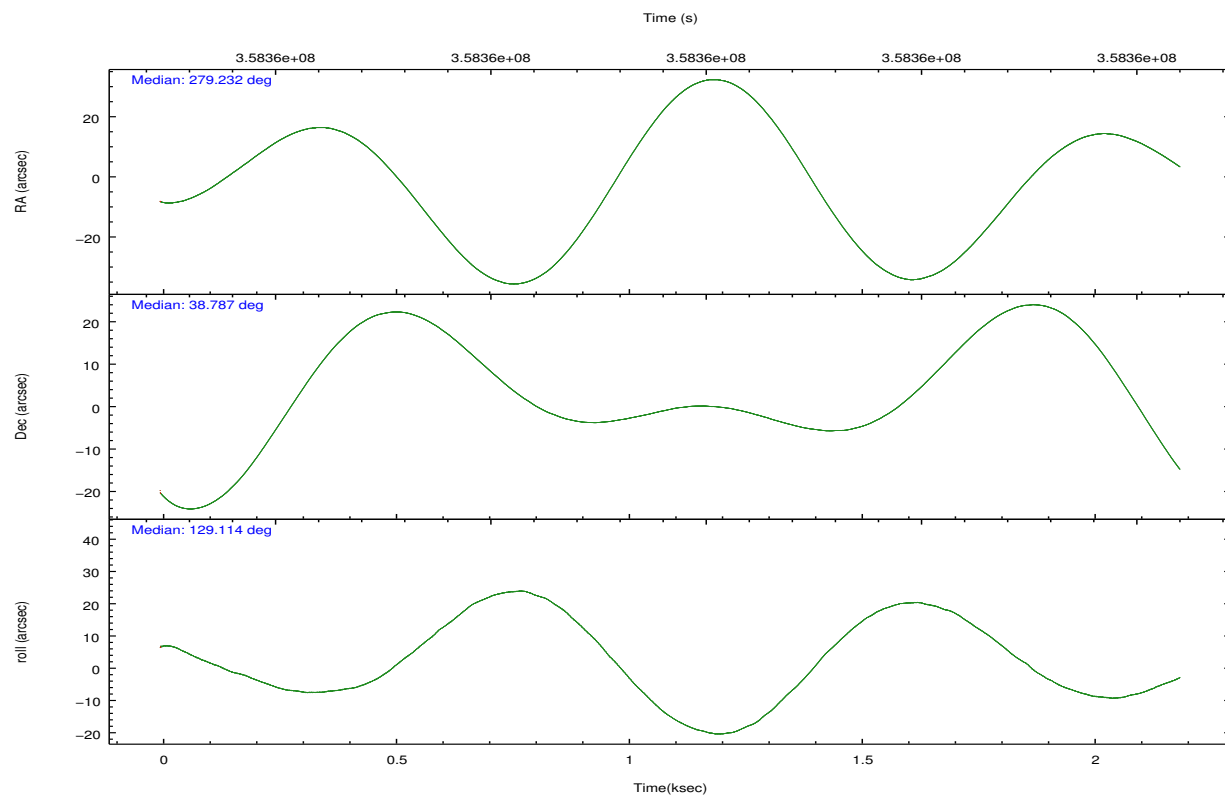
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	0	193623	0
rejected events	0	13949	0
rejected %	0%	7%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	279.266228	279.2314024071215			
[deg] Pointing Dec	38.778632	38.78760960831617			
[deg] Pointing Roll	129.035732	129.1248875905561			
[s] Window start time (MET)	352252866.184000	352252866.184000			
[s] Window stop time (MET)	360115266.184000	360115266.184000			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	358359510.184000	358359131.6165			
Observation start date	2009-05-10T16:17:24	2009-05-10T16:12:11			
[s] Observation end time (MET)	358361510.184000	358361643.89162			
Observation end date	2009-05-10T16:50:44	2009-05-10T16:54:03			

## 2.3 Aspect



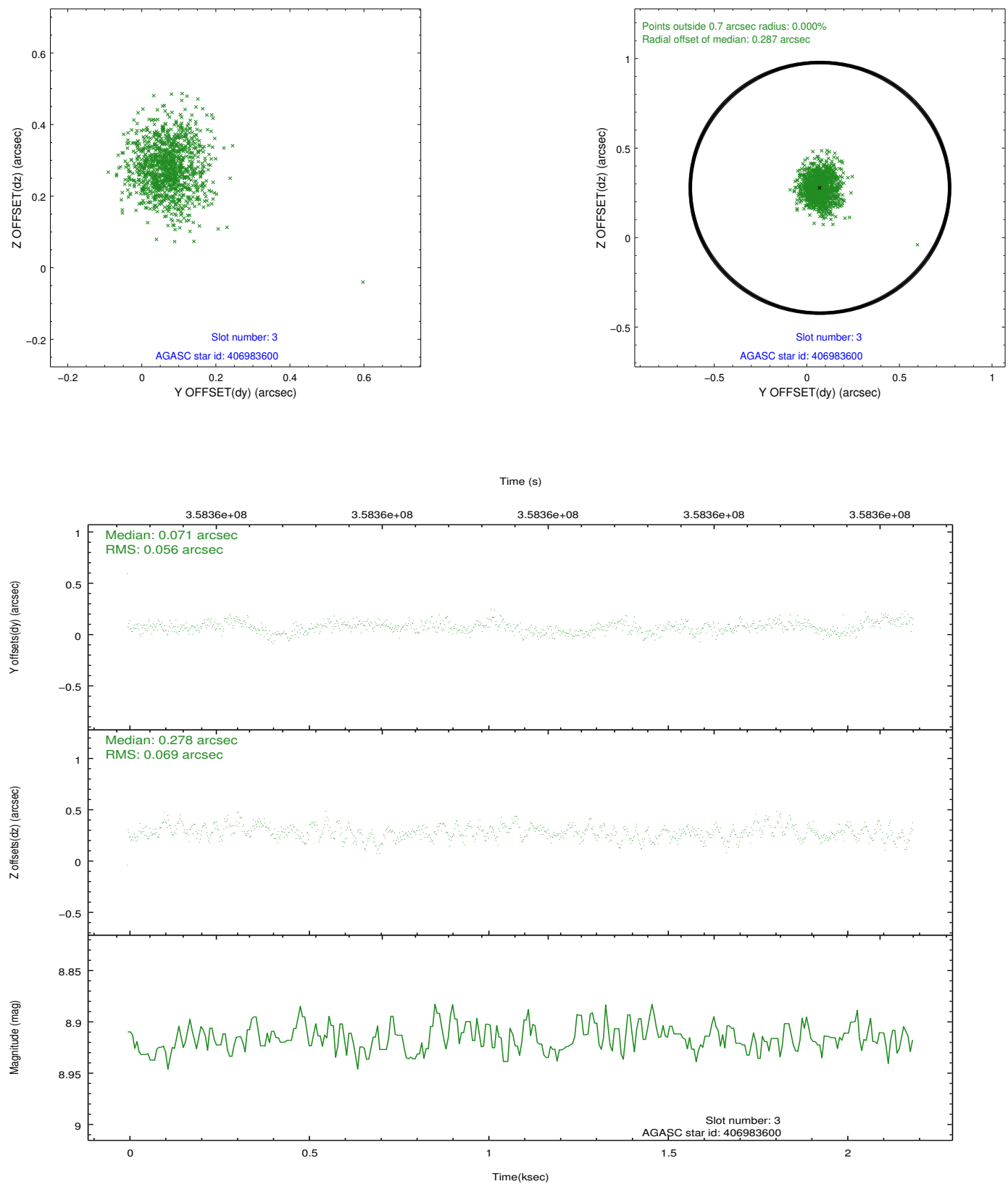


### Slot Statistics

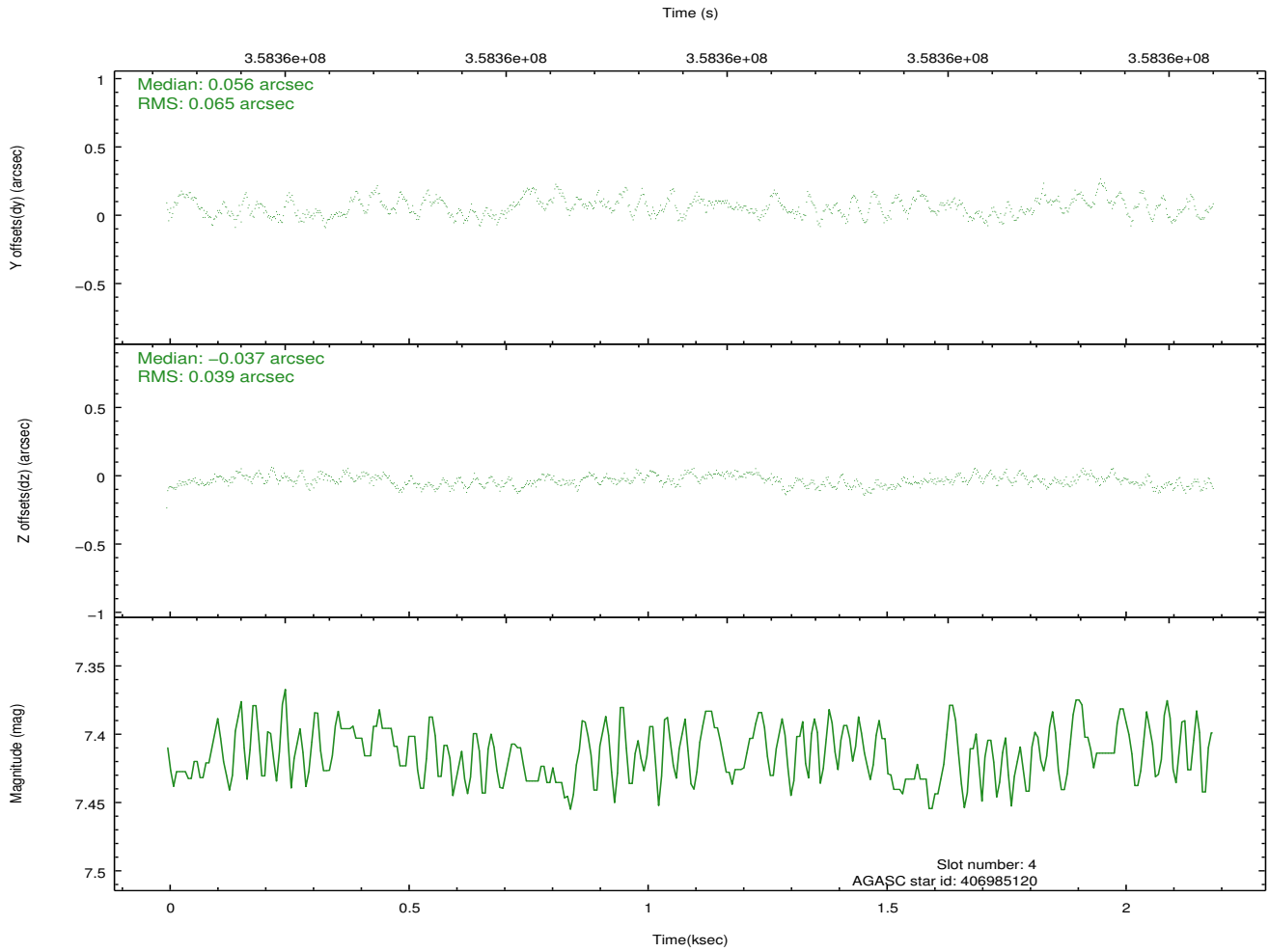
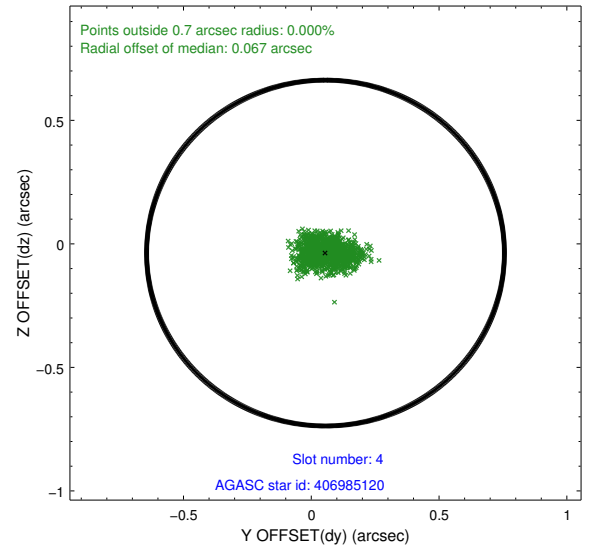
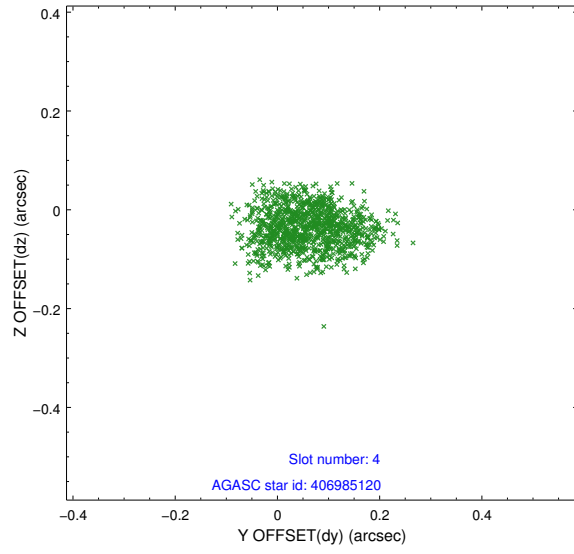
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	535	0.053	-0.172	0.007	0.012	0.000000	0.000000	-1169.72	-465.16
1	FID	HRC-S-2	7.02	535	0.237	-0.113	0.004	0.007	0.000000	0.000000	1227.94	-458.61
2	FID	HRC-S-3	7.03	535	0.099	-0.017	0.007	0.012	0.000000	0.000000	-1170.10	563.66
3	GUIDE	406983600	8.92	1068	0.071	0.278	0.093	0.150	279.940957	39.020708	-506.63	-2018.17
4	GUIDE	406985120	7.41	1069	0.056	-0.037	0.081	0.130	278.839732	38.894839	1079.52	662.17
5	GUIDE	406993992	7.64	1069	0.106	-0.119	0.078	0.122	279.053714	38.034587	-1699.93	2155.56
6	GUIDE	407521232	8.64	1065	-0.138	0.262	0.088	0.138	279.628883	39.431715	1191.72	-2261.86
7	GUIDE	406987272	6.94	1068	-0.098	-0.393	0.081	0.122	278.536588	38.437504	349.71	2364.81

## 2.4 Star Slots

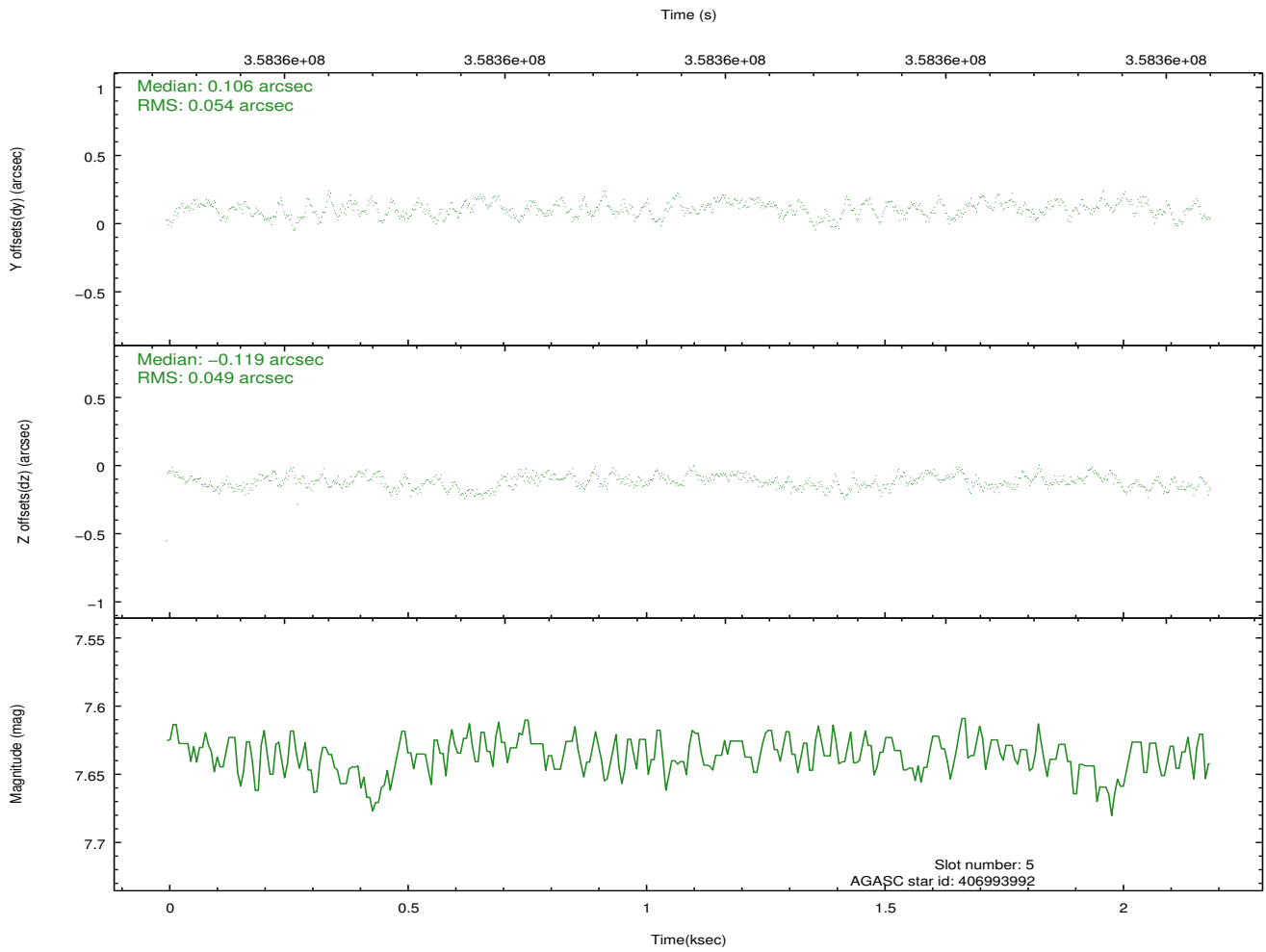
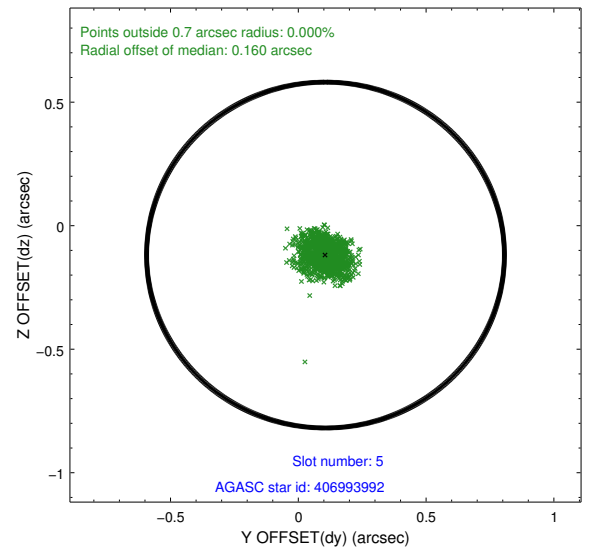
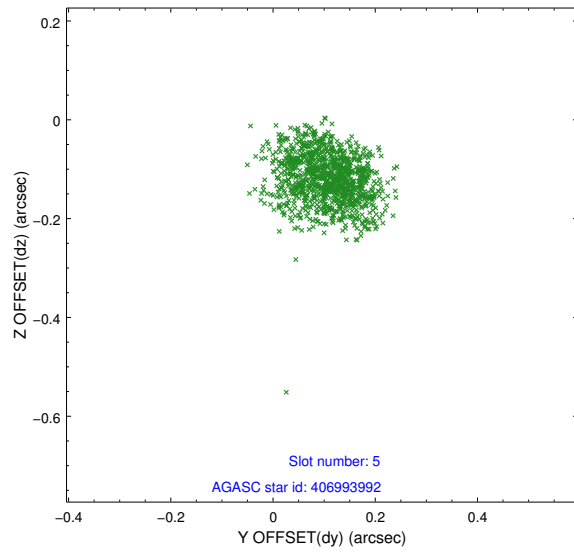
### 2.4.1 Slot 3



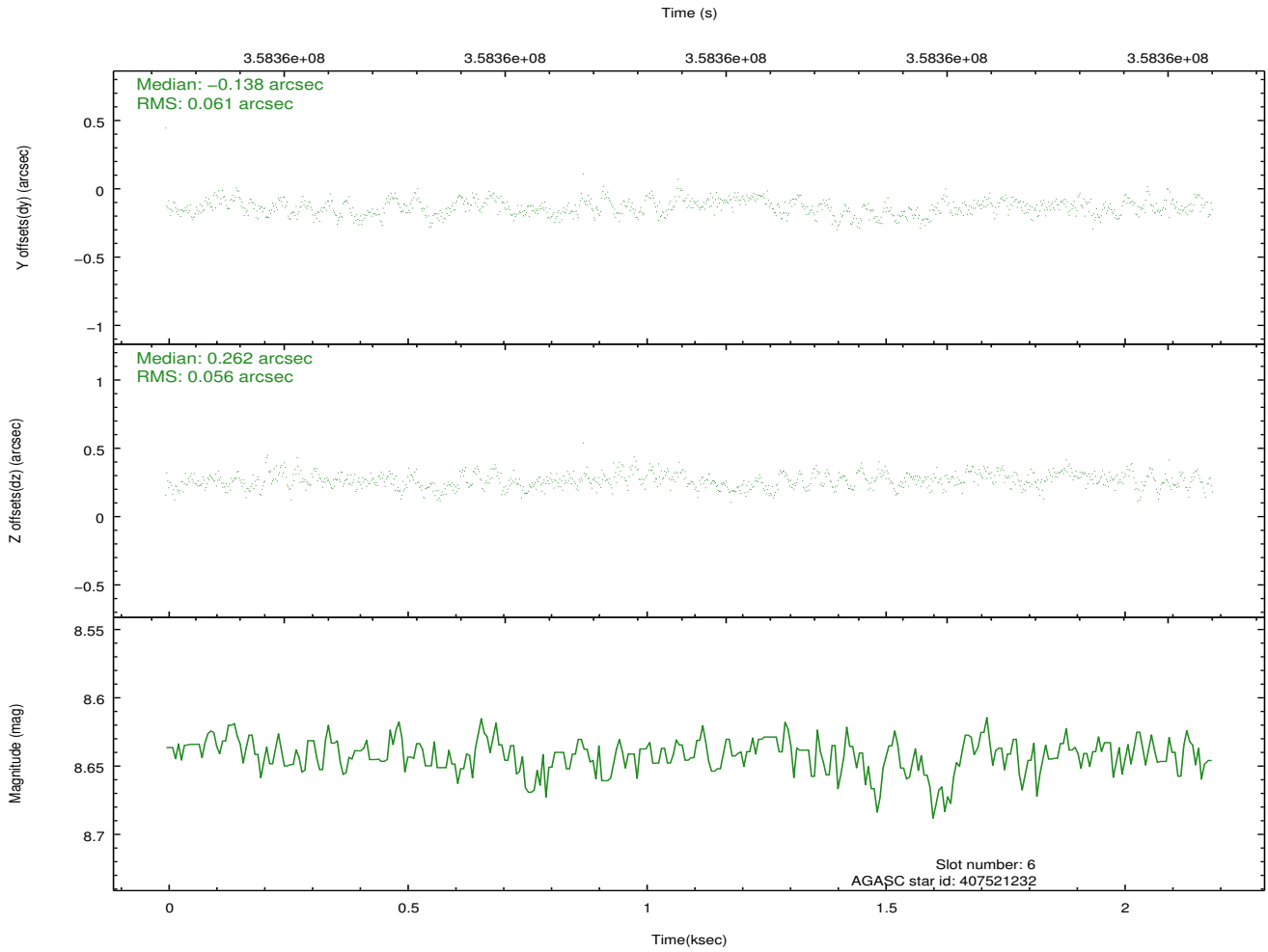
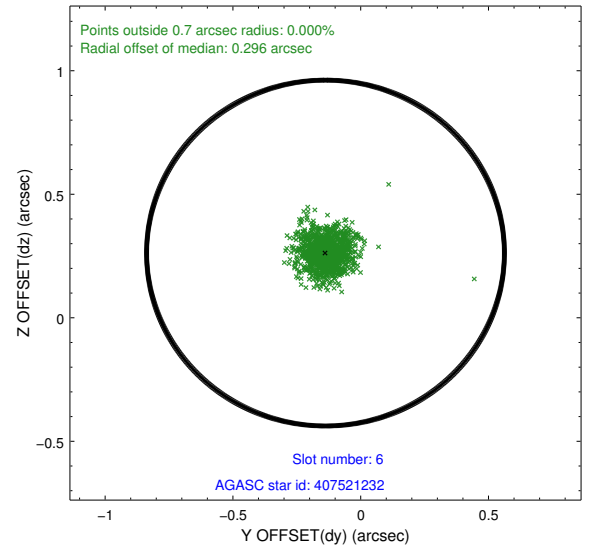
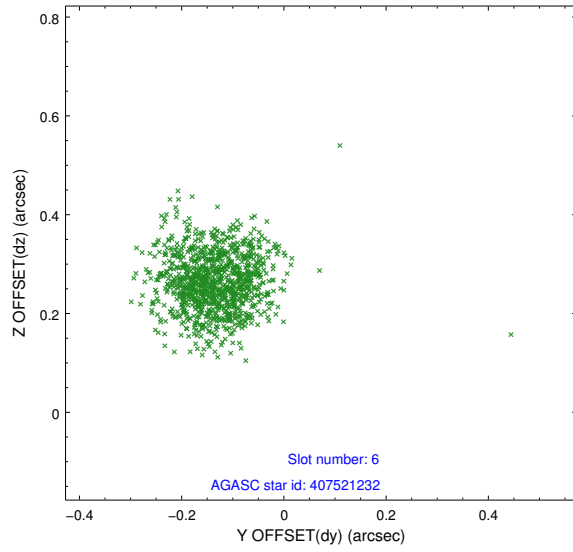
## 2.4.2 Slot 4



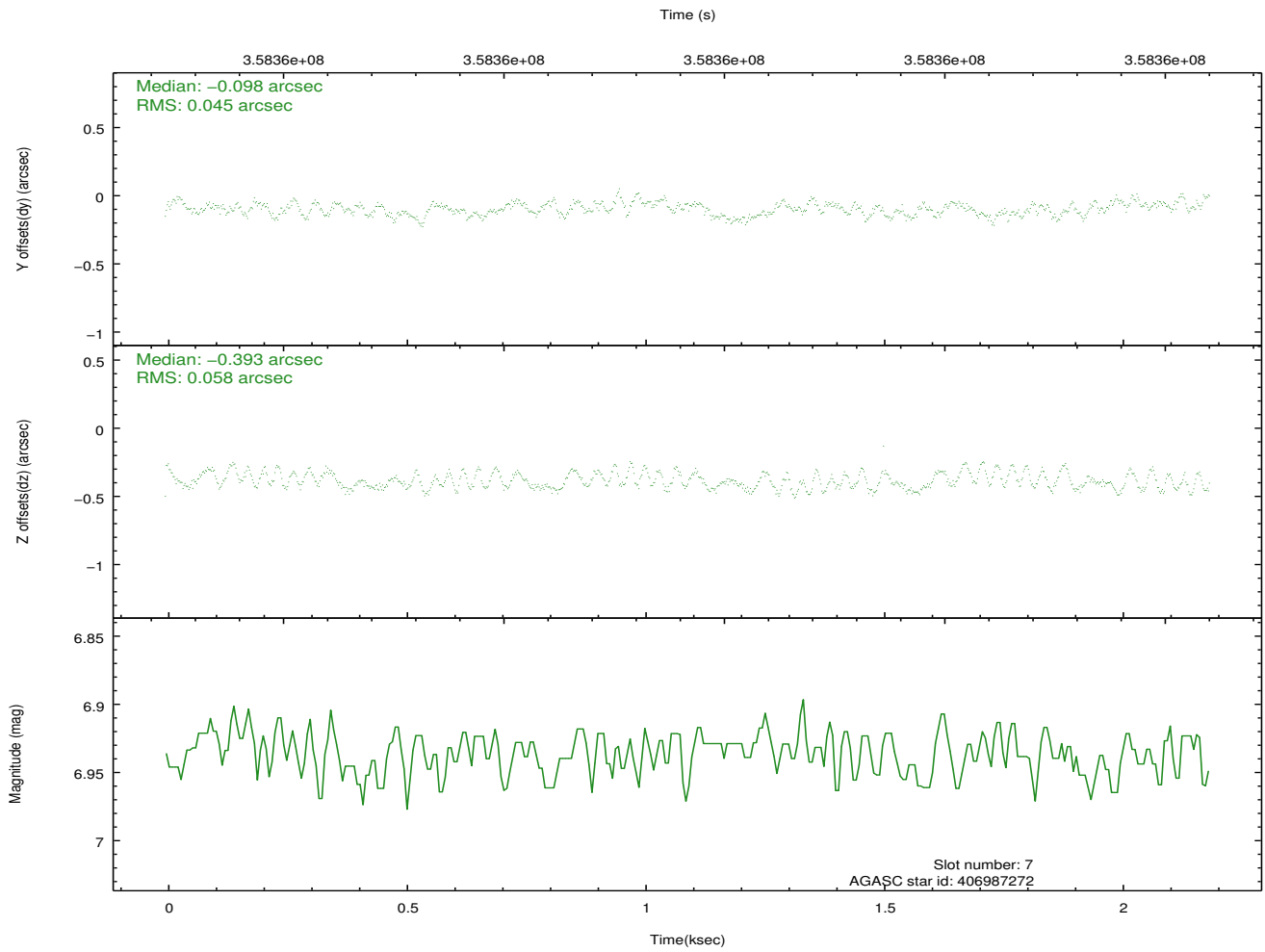
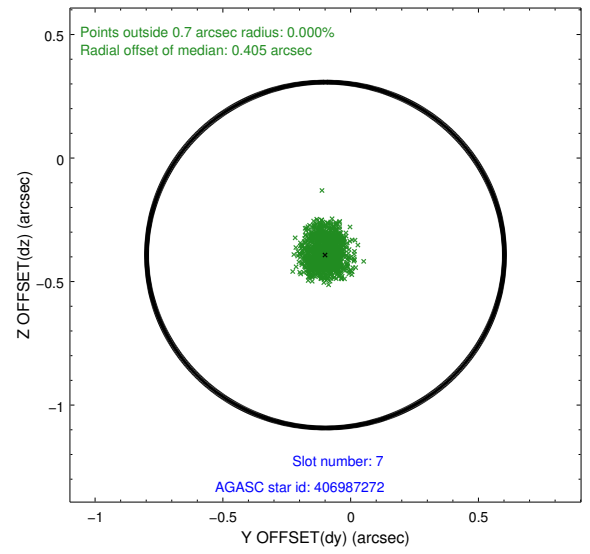
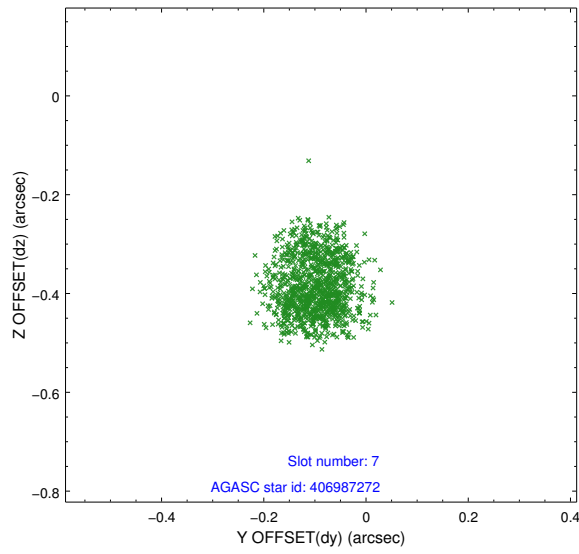
### 2.4.3 Slot 5



## 2.4.4 Slot 6

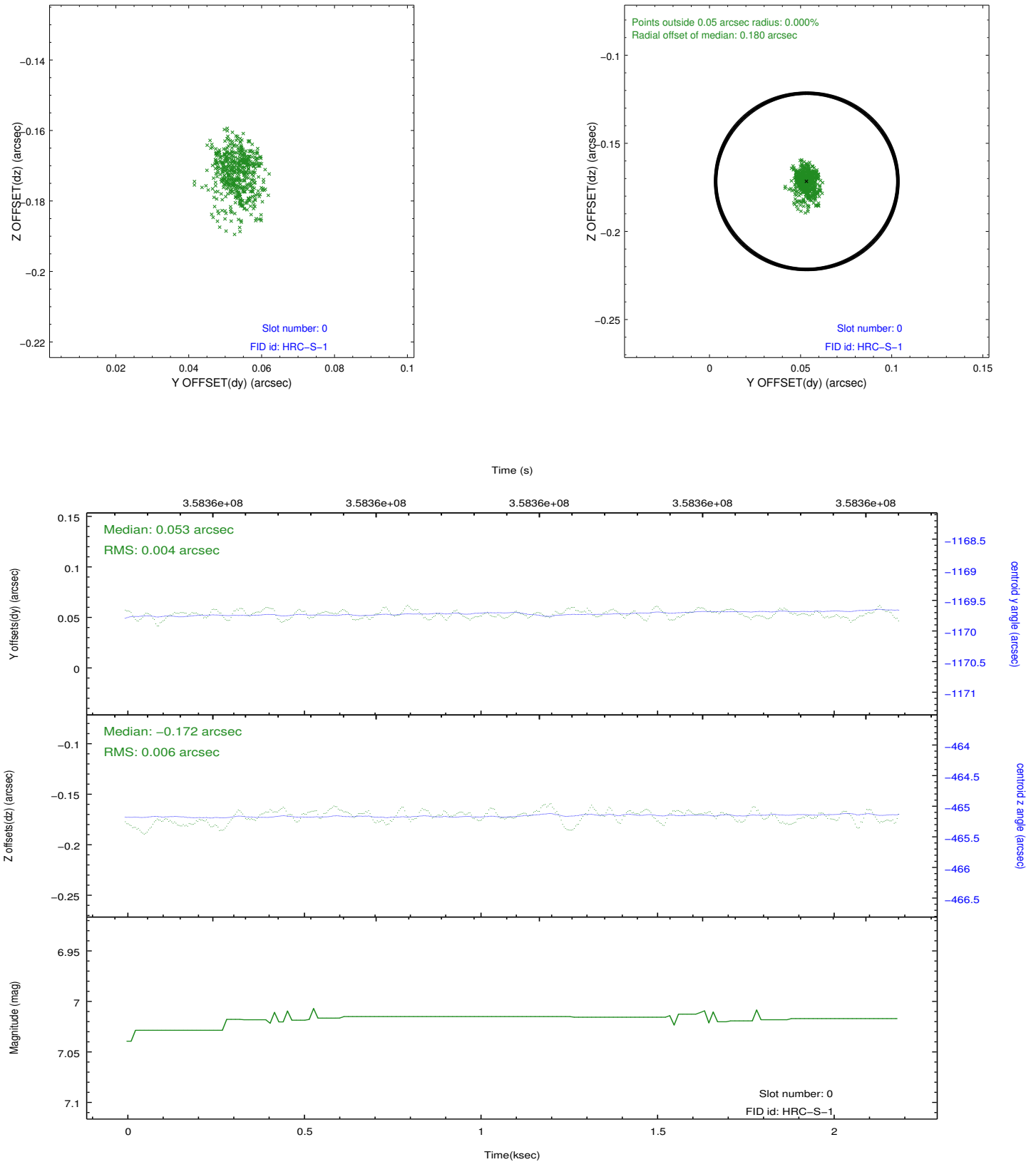


## 2.4.5 Slot 7

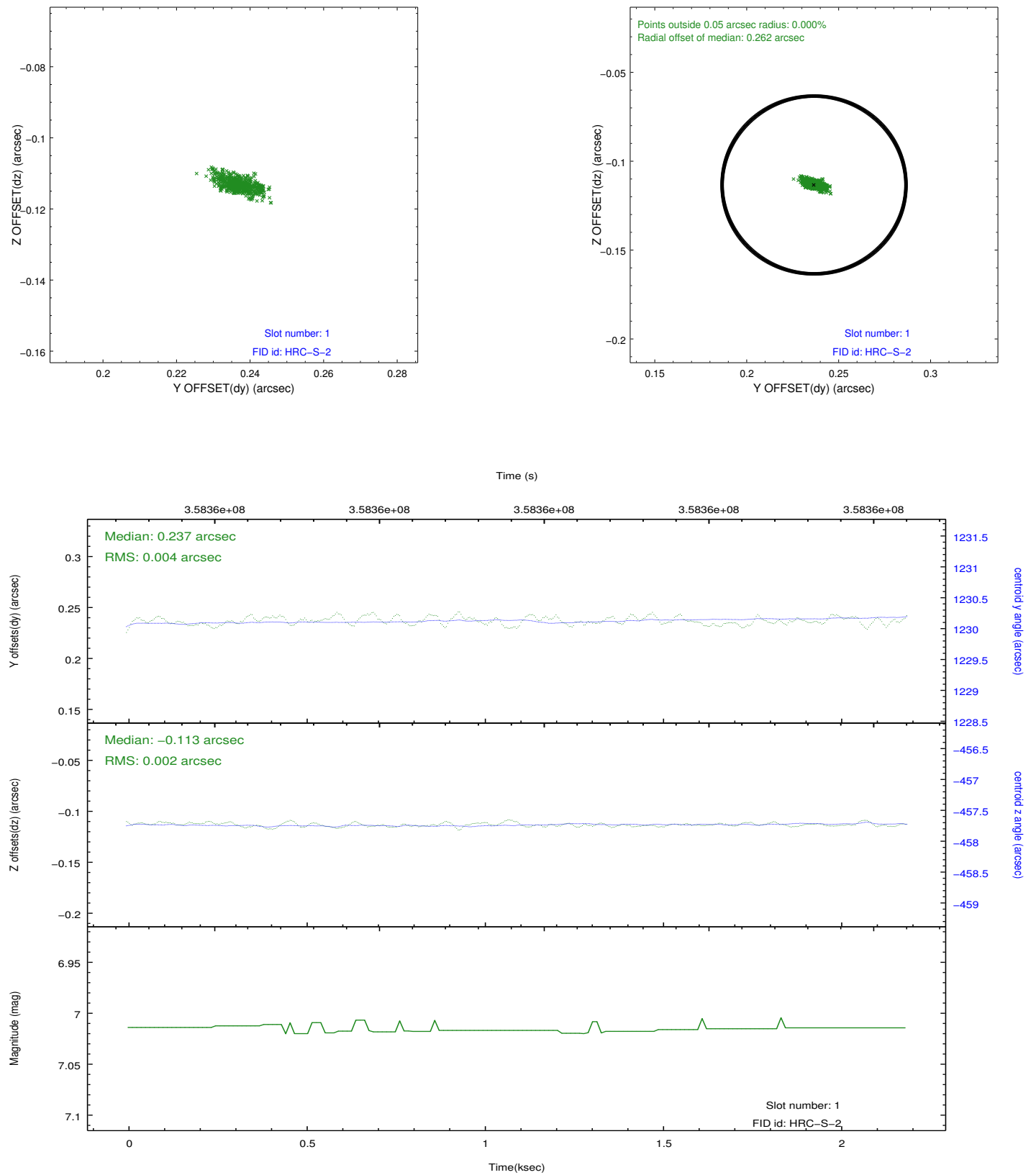


## 2.5 FID Slots

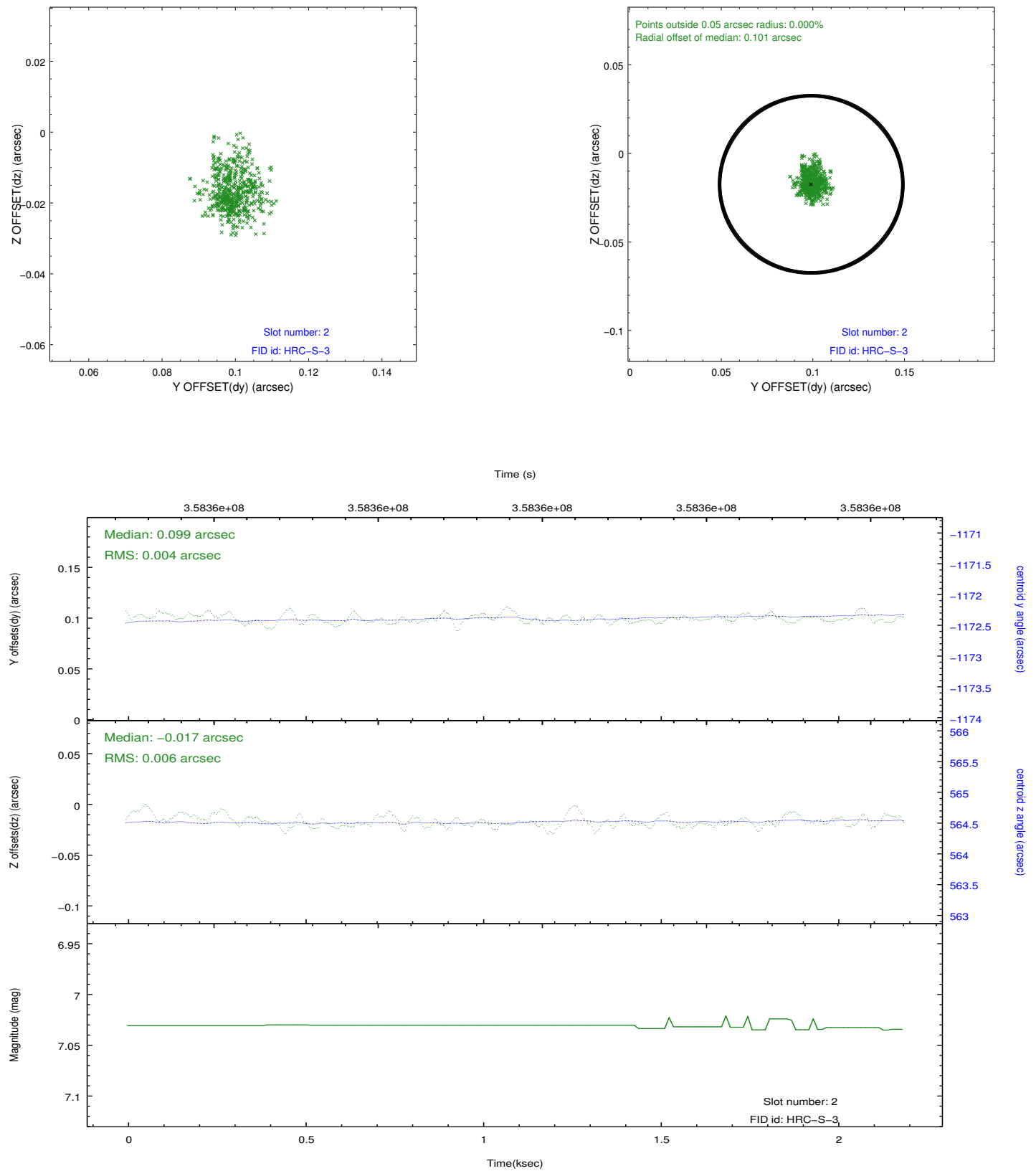
### 2.5.1 Slot 0



## 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)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.15993135

### A.2 Comments

Window preference met.