

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8346 - L2 Version 5  
Chandra X-Ray Center

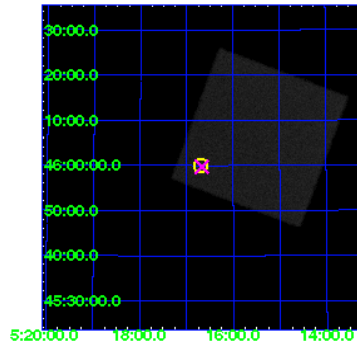
L2 Processing Date : Aug 11 2012

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# 1 Front

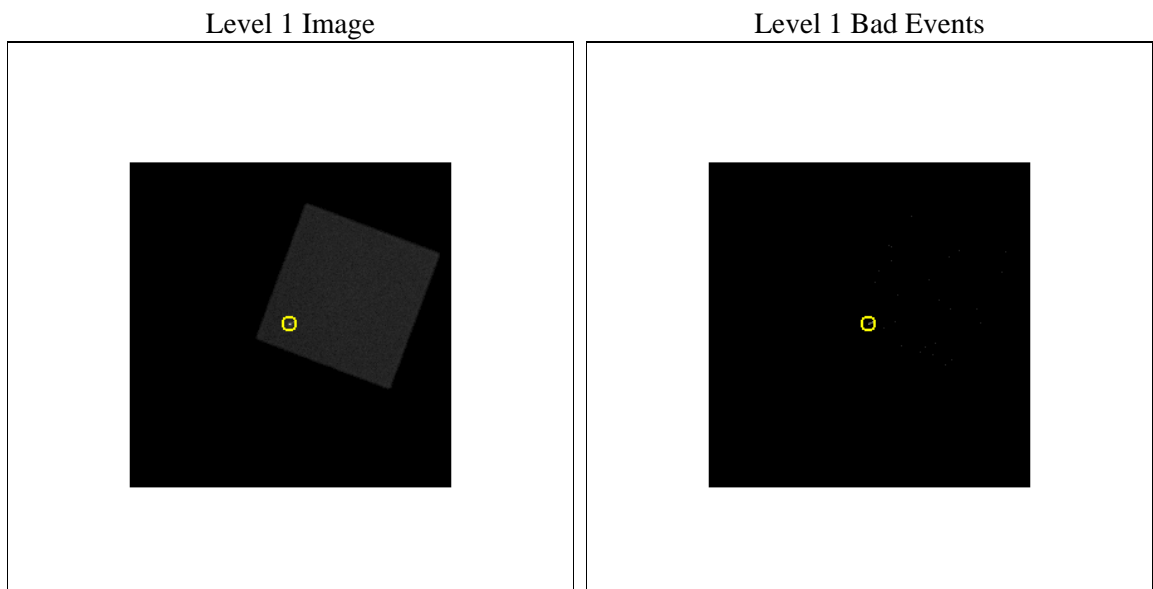
seq_num	290725	Sequence number
obs_id	8346	Observation id
title	Improving the De-Gap Corrections for the HRC-I	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.1725	Observer's specified target RA [deg]
dec_targ	45.998	Observer's specified target Dec [deg]
ra_nom	79.16804630536	Nominal RA [deg]
dec_nom	45.995342930867	Nominal Dec [deg]
roll_nom	245.46029580013	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5185.7314958572	[s]
livetime	5131.7351816554	Ontime multiplied by DTCOR
l2events	364090	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5185.7314958572	[s]
caldbver	4.5.1.1	&#160	l1events	525801	Number of level 1 events
date	2012-08-11T17:02:00	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	<b>segment 0</b>
level 1 events	525801
rejected events	31021
rejected %	5%

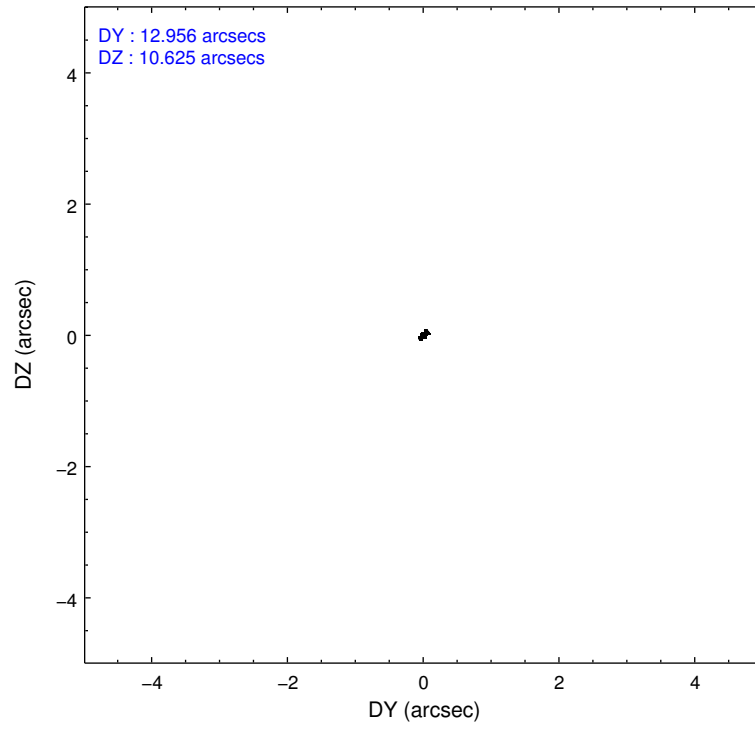
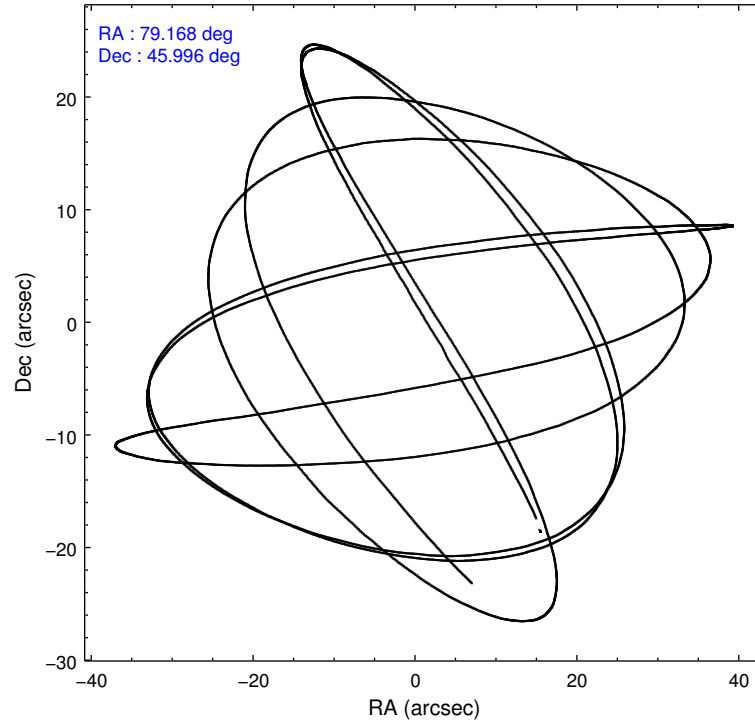


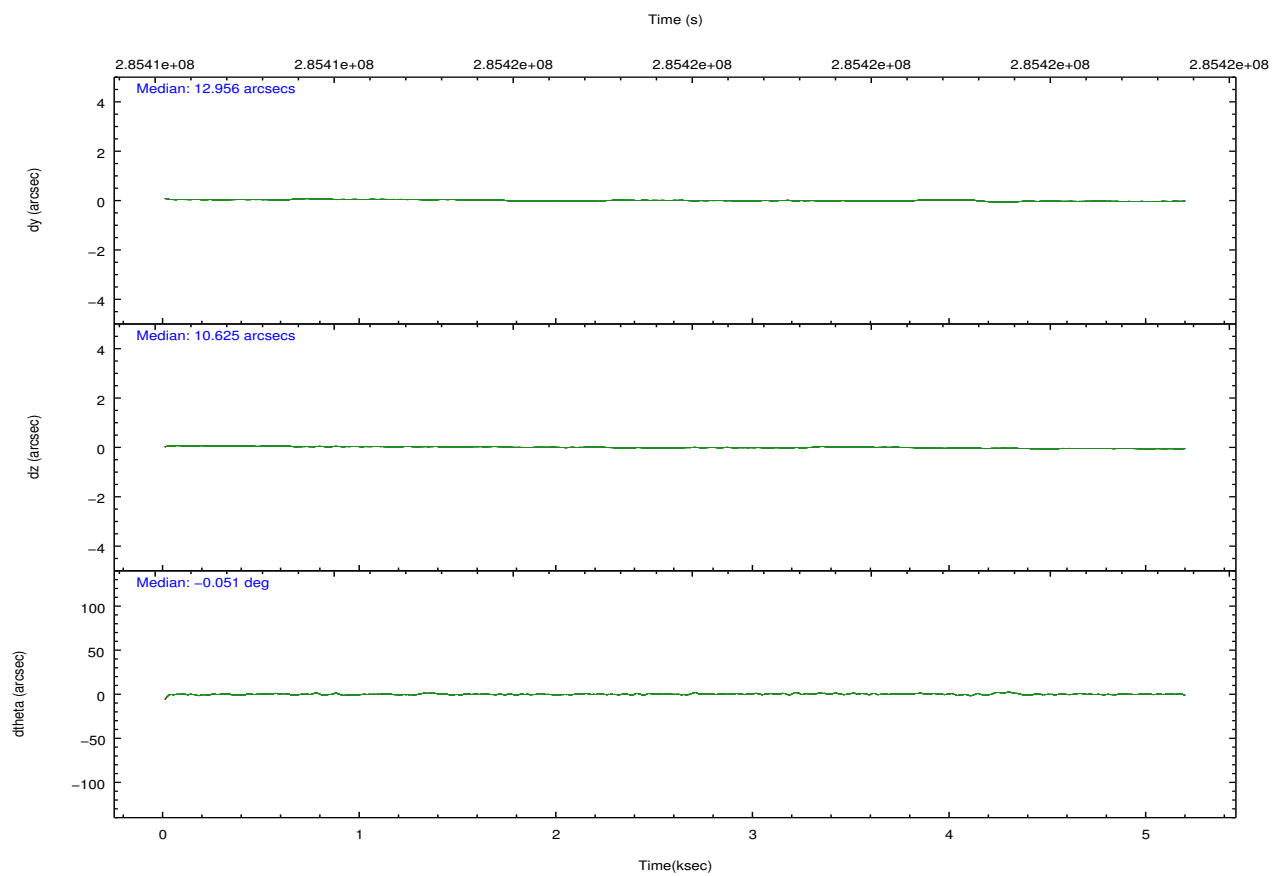
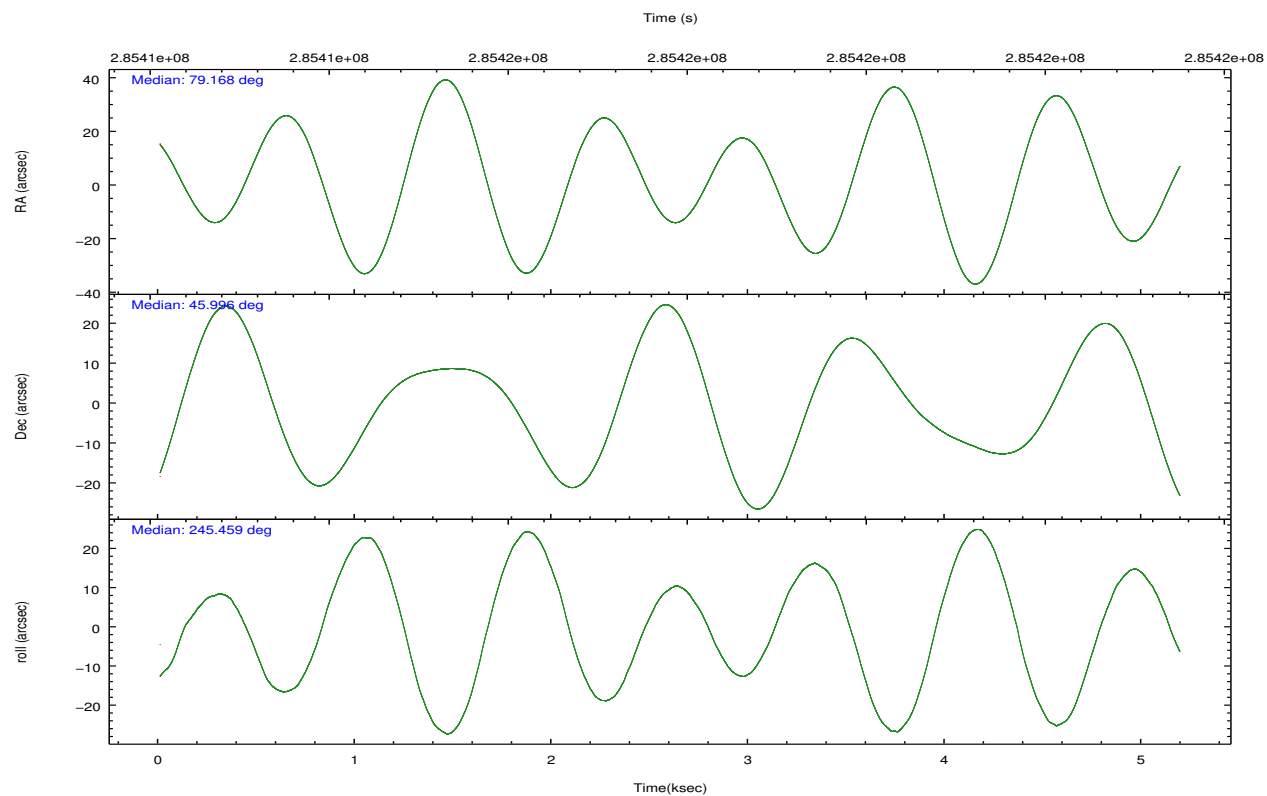
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	79.163487	79.16804630536029
[deg] Pointing Dec	46.022082	45.99534293086737
[deg] Pointing Roll	245.559061	245.4602958001265
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	168.985494	168.9846171025461
[mm] SIM translation stage offset	-42	-41.99912821094449
[s] Observation start time (MET)	285413512.184000	285413136.2597
Observation start date	2007-01-17T09:30:47	2007-01-17T09:25:36
[s] Observation end time (MET)	285418512.184000	285418645.63496
Observation end date	2007-01-17T10:54:07	2007-01-17T10:57:25

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



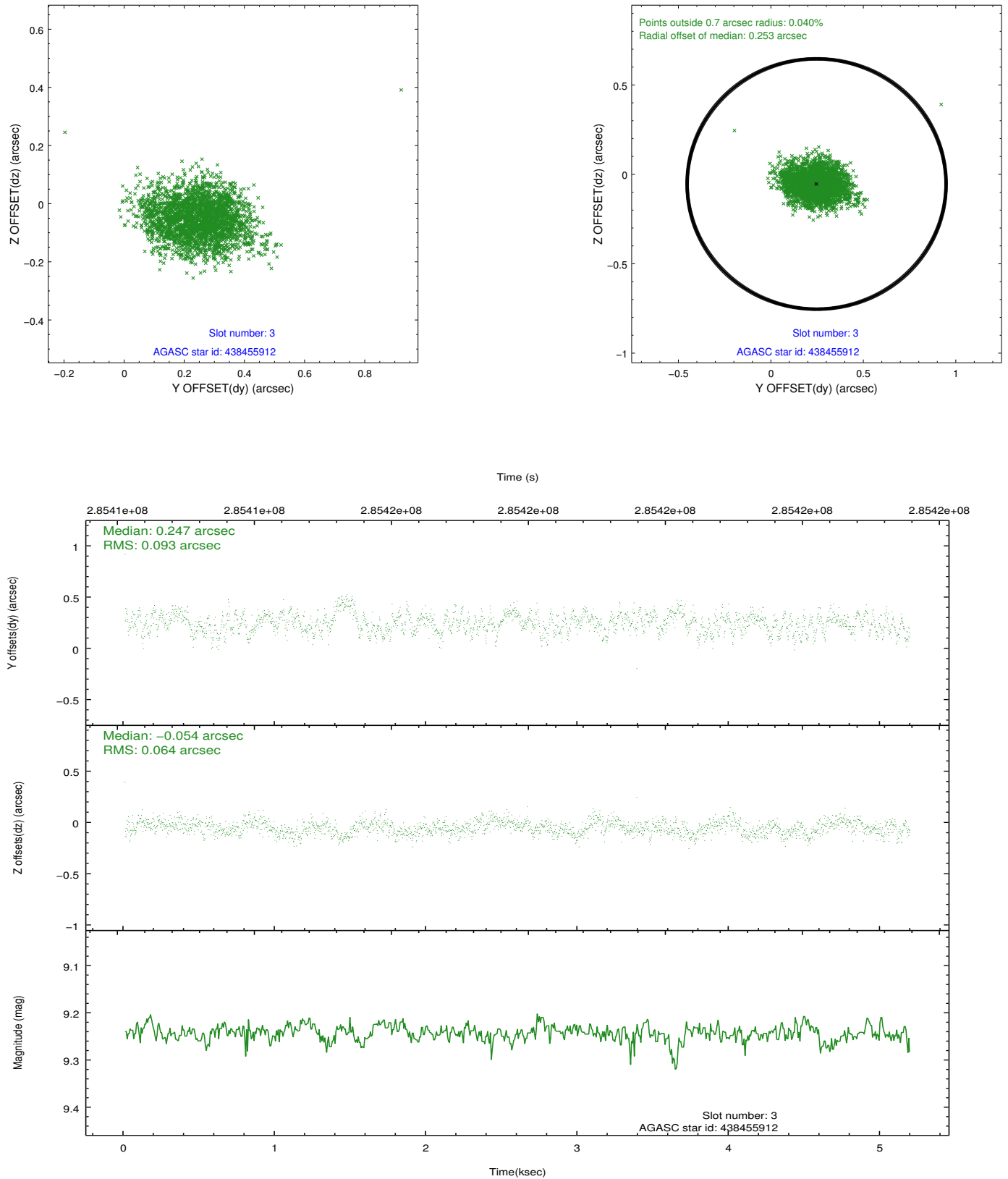


### Slot Statistics

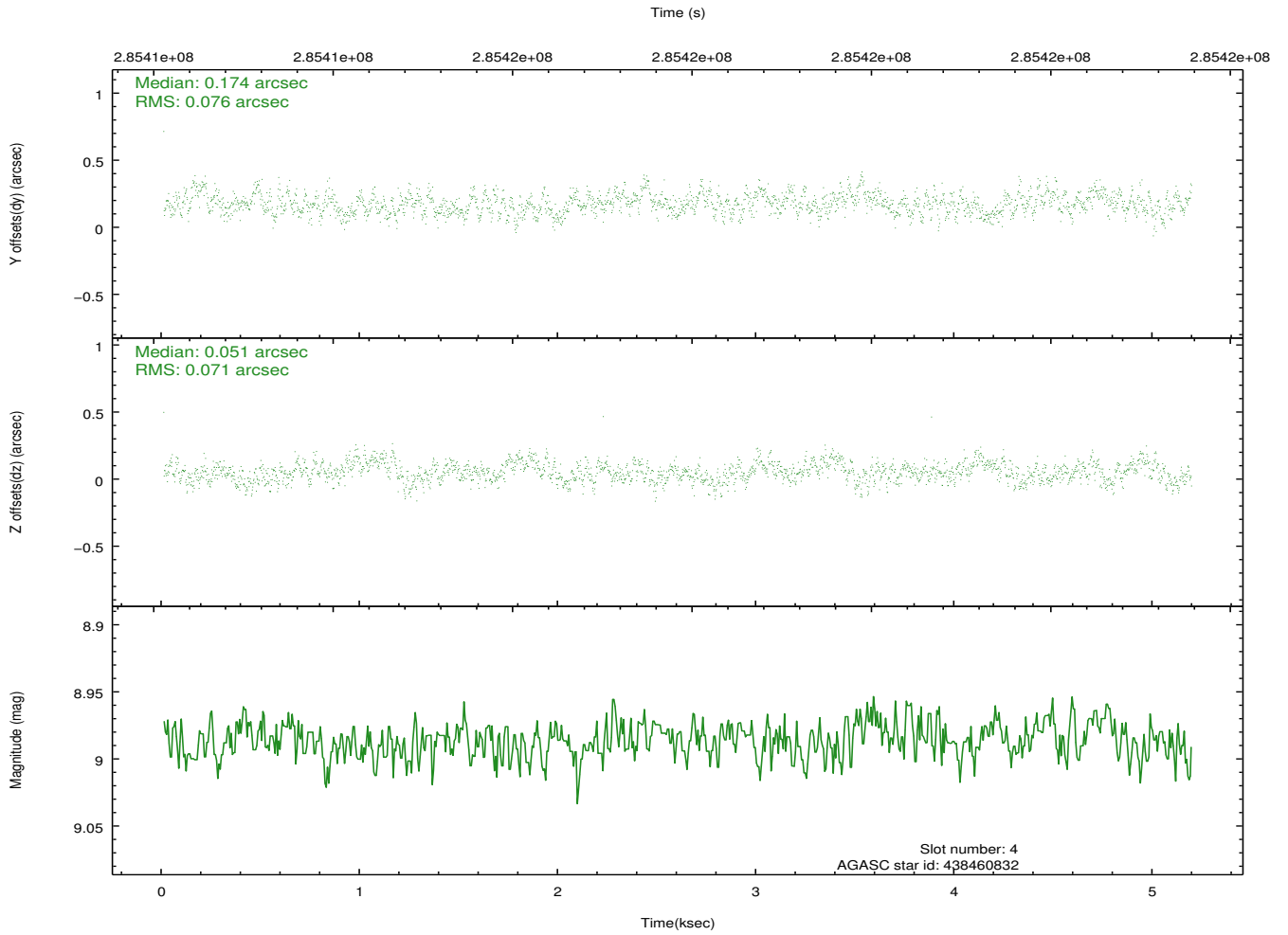
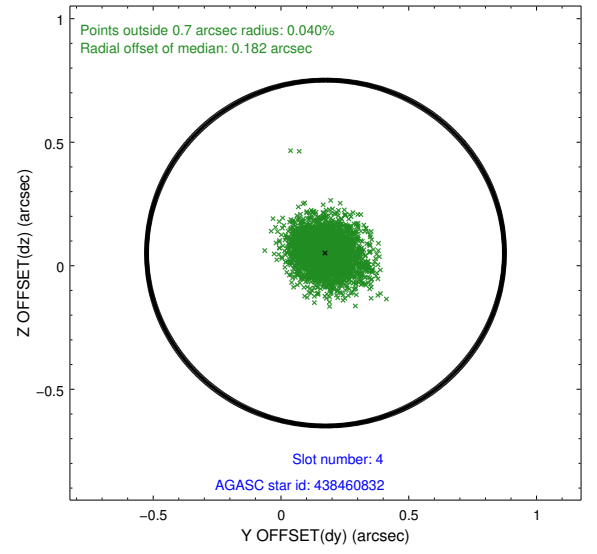
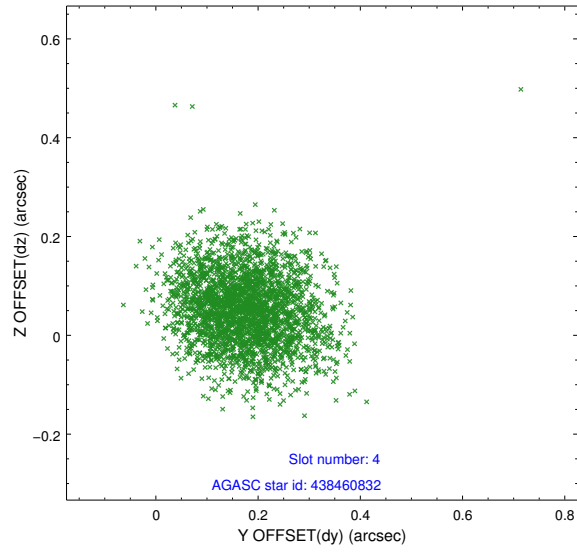
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	7.03	1266	-0.736	-1.869	0.008	0.014	0.000000	0.000000	846.28	-2164.69
1	FID	HRC-I-3	7.17	1265	1.360	-0.436	0.006	0.010	0.000000	0.000000	-1194.45	138.99
2	FID	HRC-I-4	6.99	1266	-0.504	2.215	0.008	0.015	0.000000	0.000000	1273.35	143.62
3	GUIDE	438455912	9.24	2528	0.247	-0.054	0.119	0.189	78.251946	45.690923	2023.50	-1598.20
4	GUIDE	438460832	8.99	2531	0.174	0.051	0.111	0.175	78.414614	45.554782	2307.07	-1025.82
5	GUIDE	440140240	9.98	2527	-0.193	0.044	0.145	0.241	78.889349	46.726437	-2027.55	-1665.18
6	GUIDE	440150048	7.14	2530	-0.212	-0.006	0.084	0.137	79.112838	46.416060	-1238.88	-701.22
7	GUIDE	440163960	8.88	2528	-0.018	-0.042	0.084	0.136	79.298370	45.827072	499.56	598.96

## 2.4 Star Slots

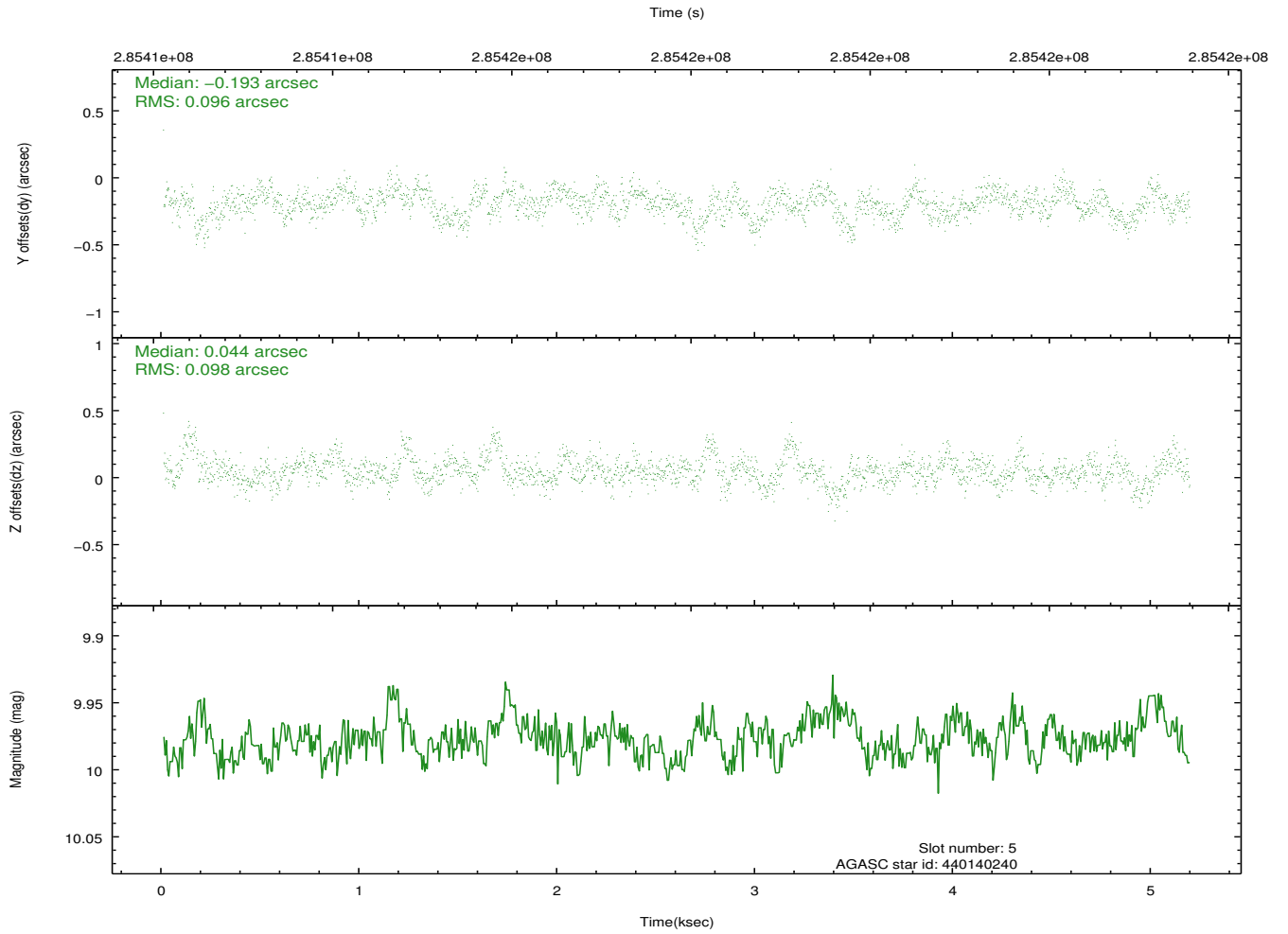
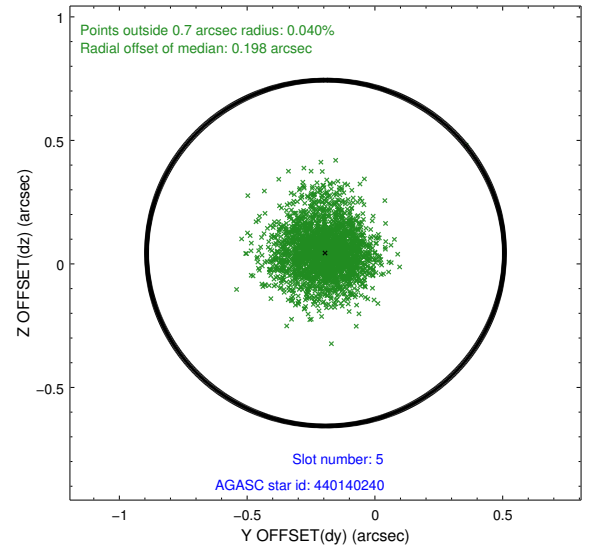
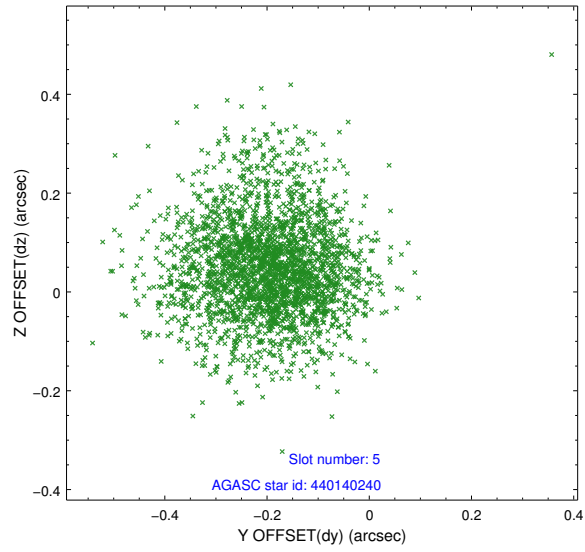
### 2.4.1 Slot 3



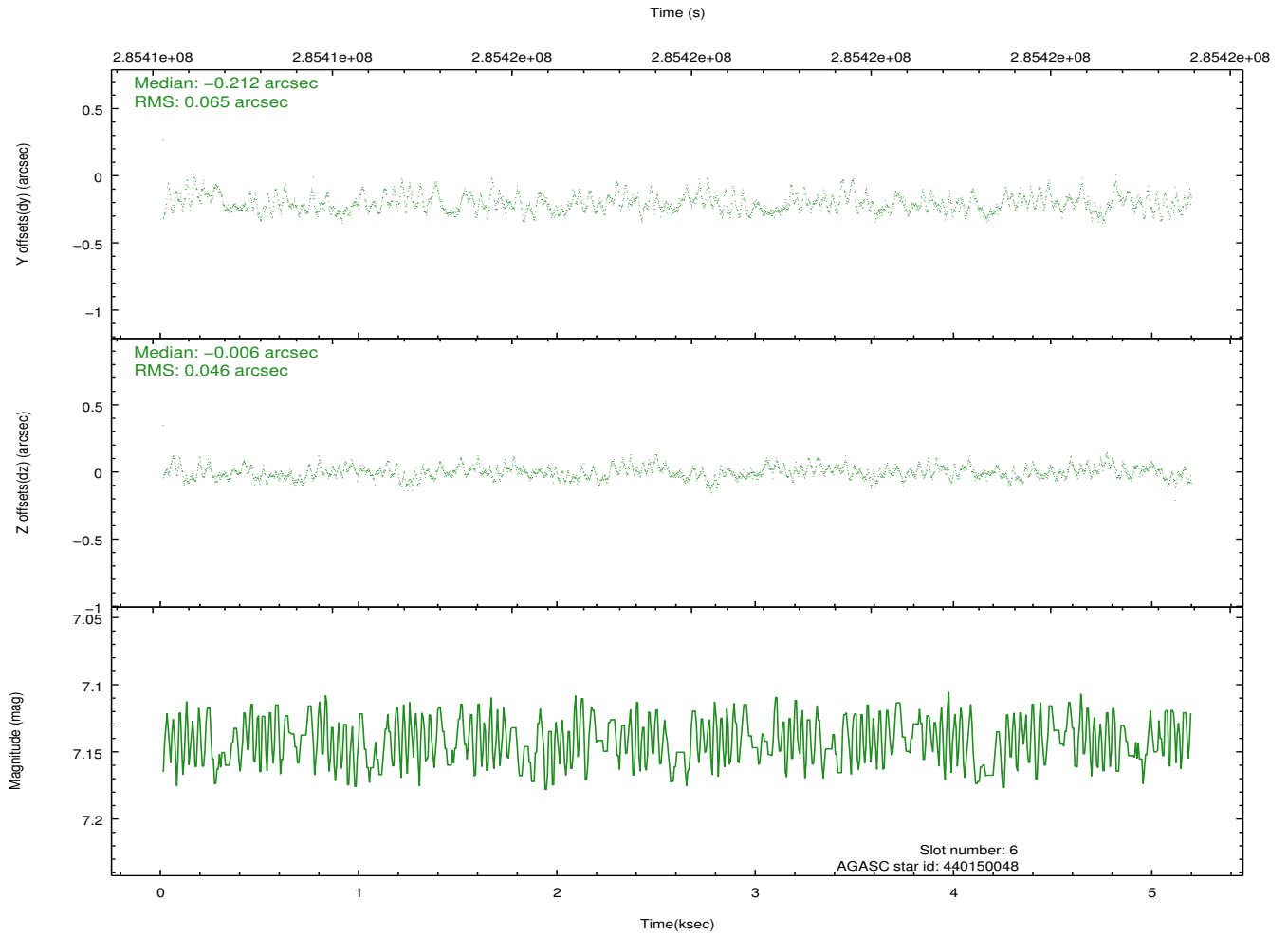
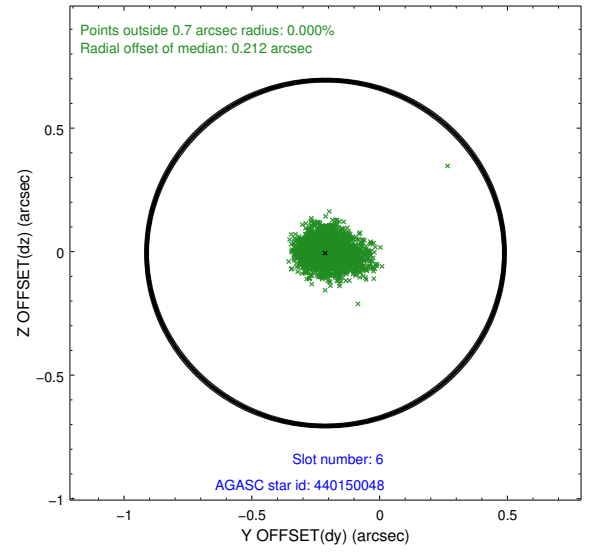
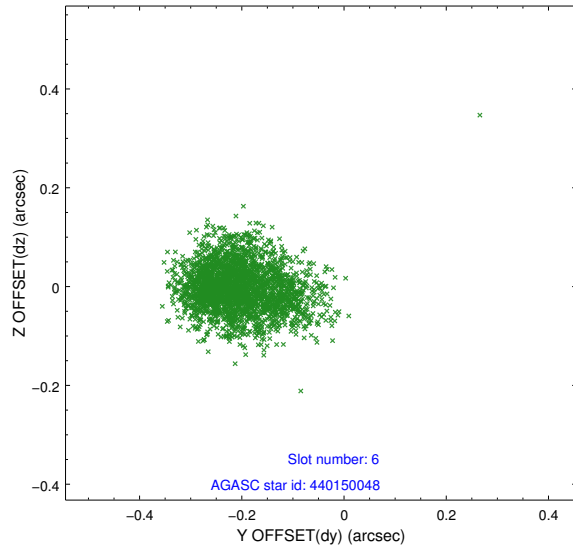
## 2.4.2 Slot 4



### 2.4.3 Slot 5

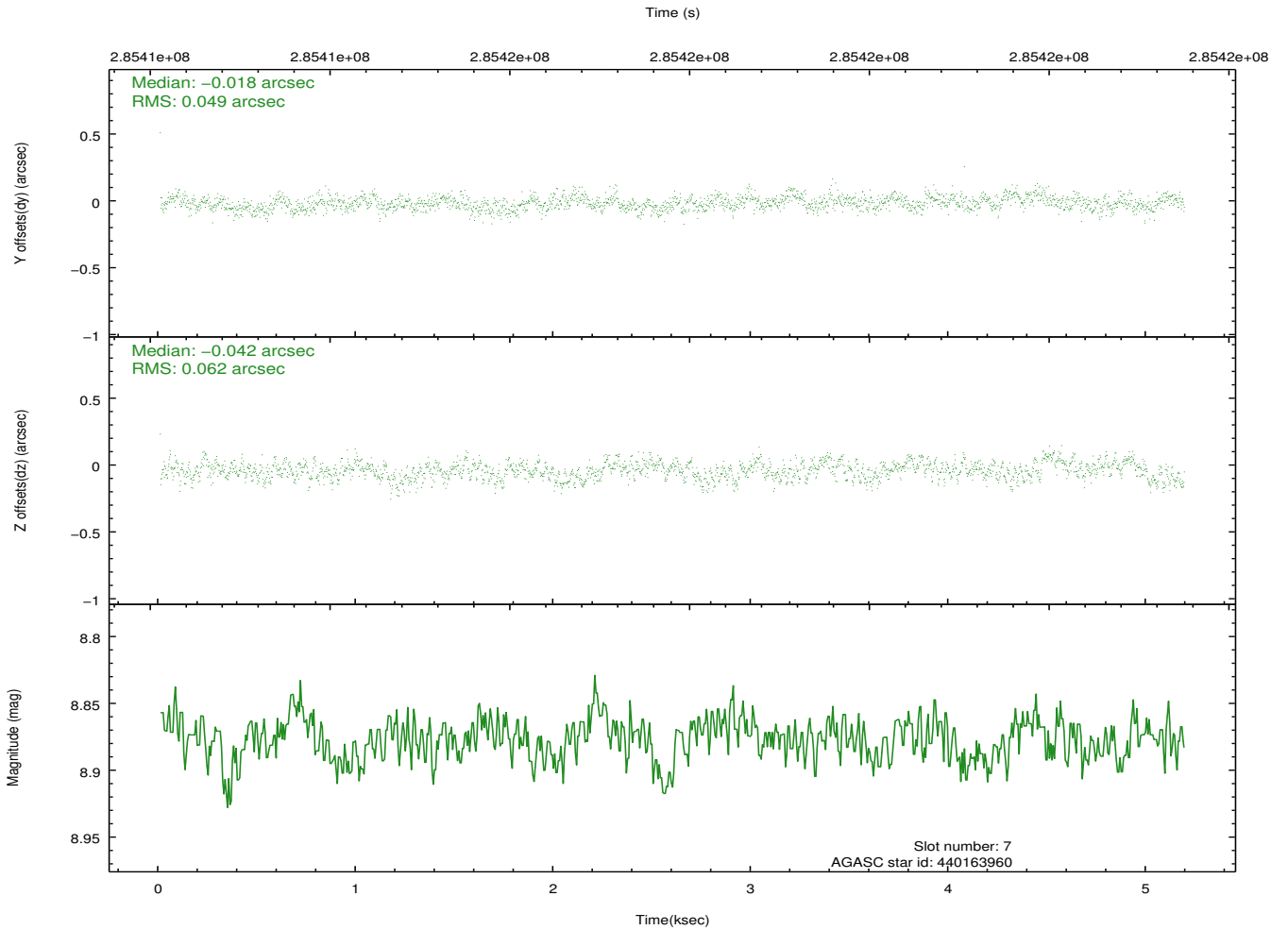
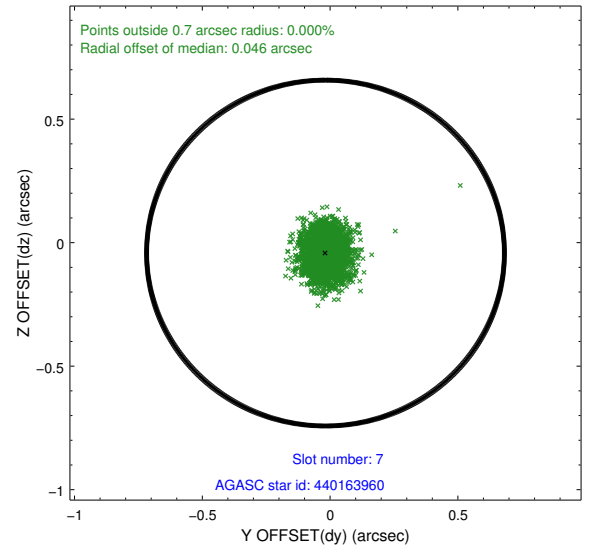
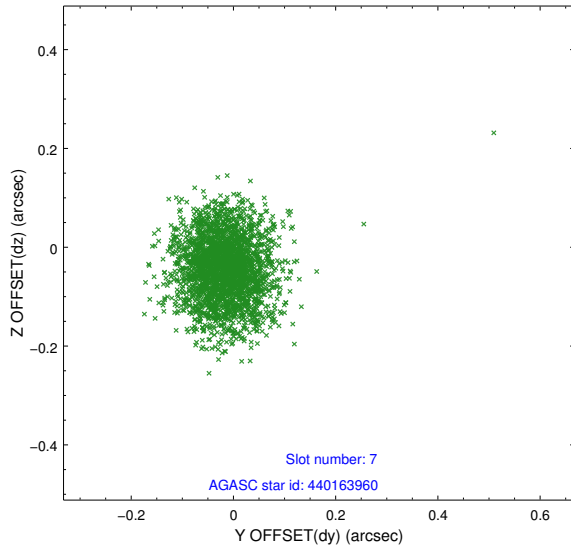


## 2.4.4 Slot 6



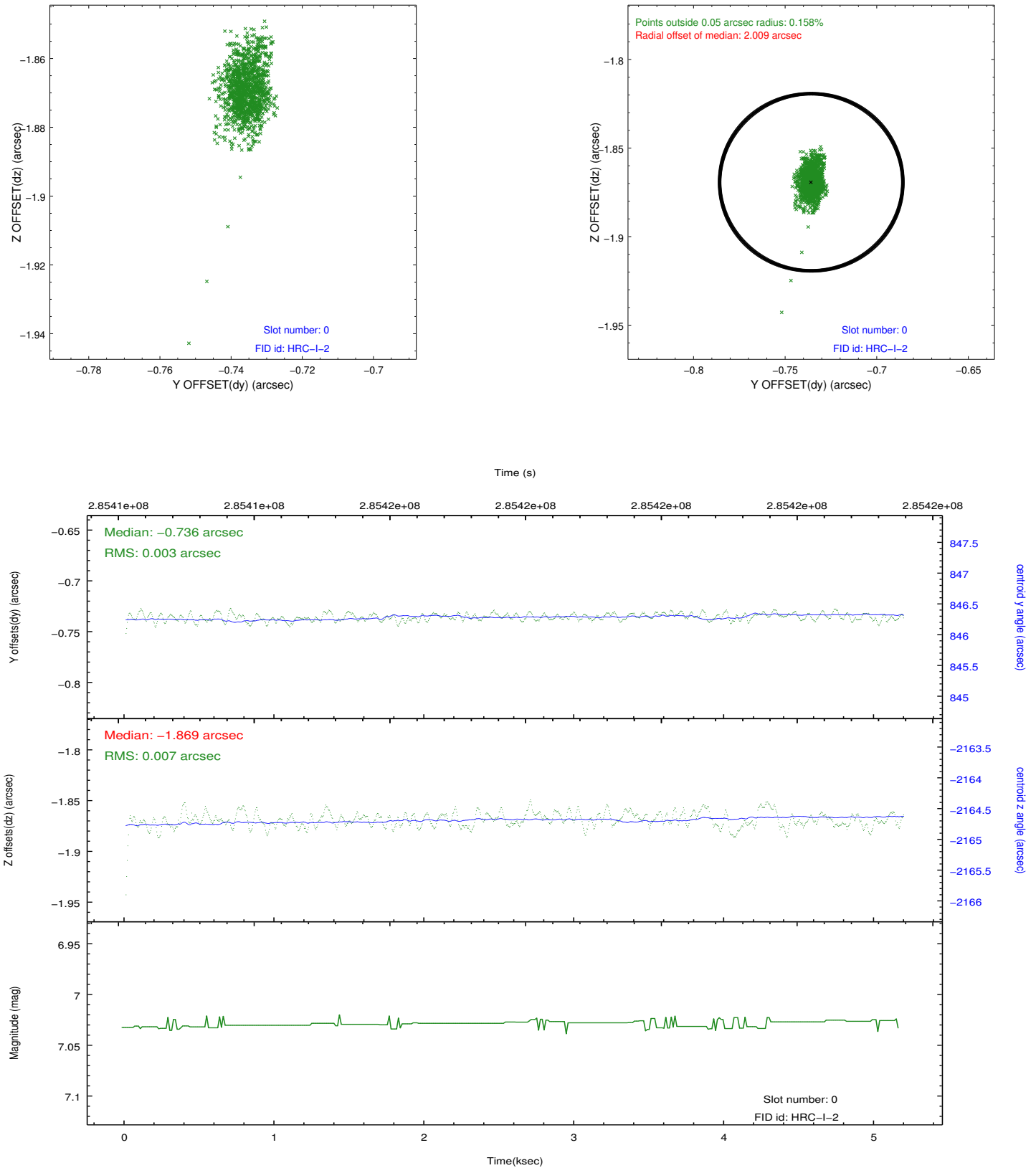


## 2.4.5 Slot 7

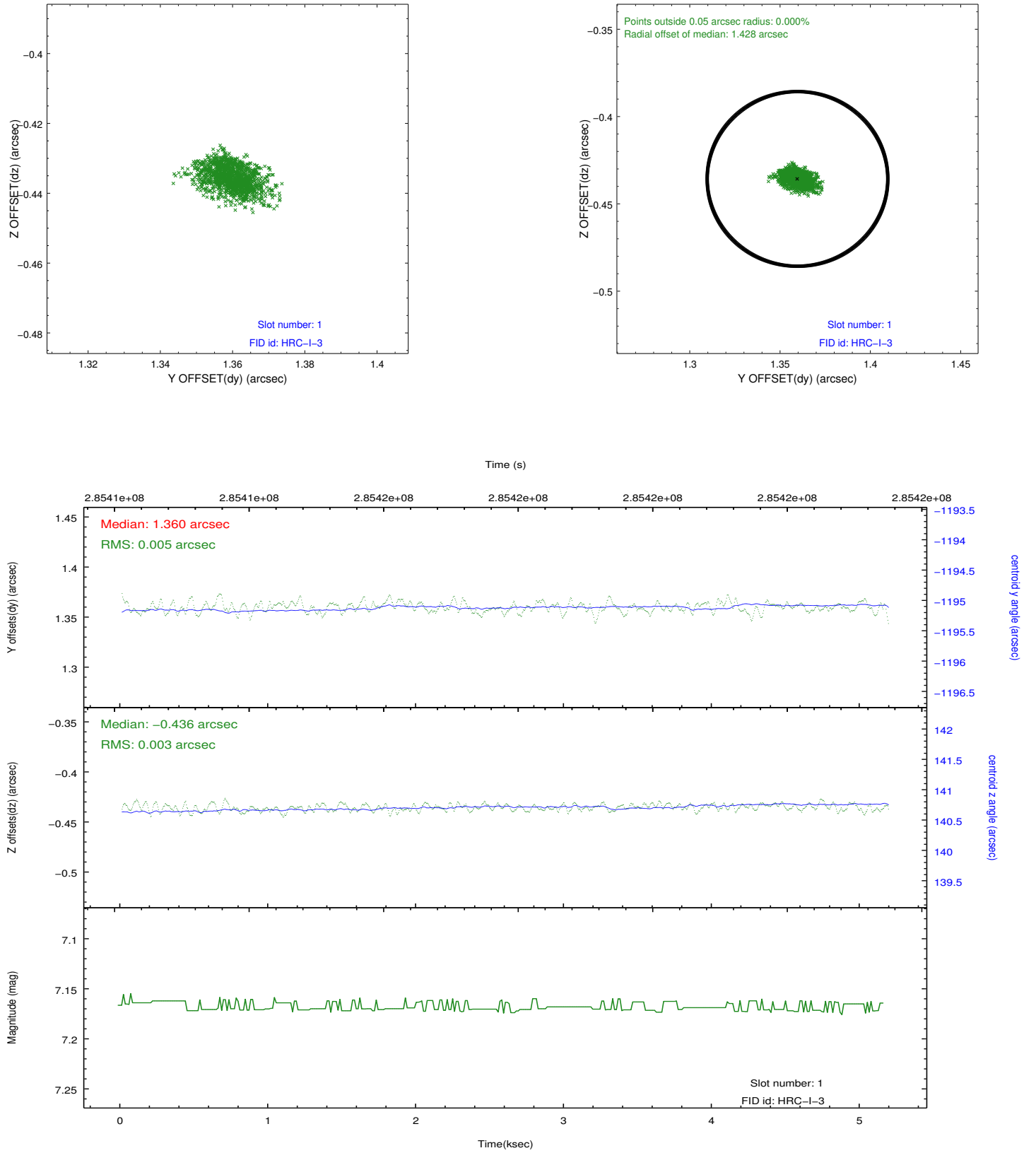


## 2.5 FID Slots

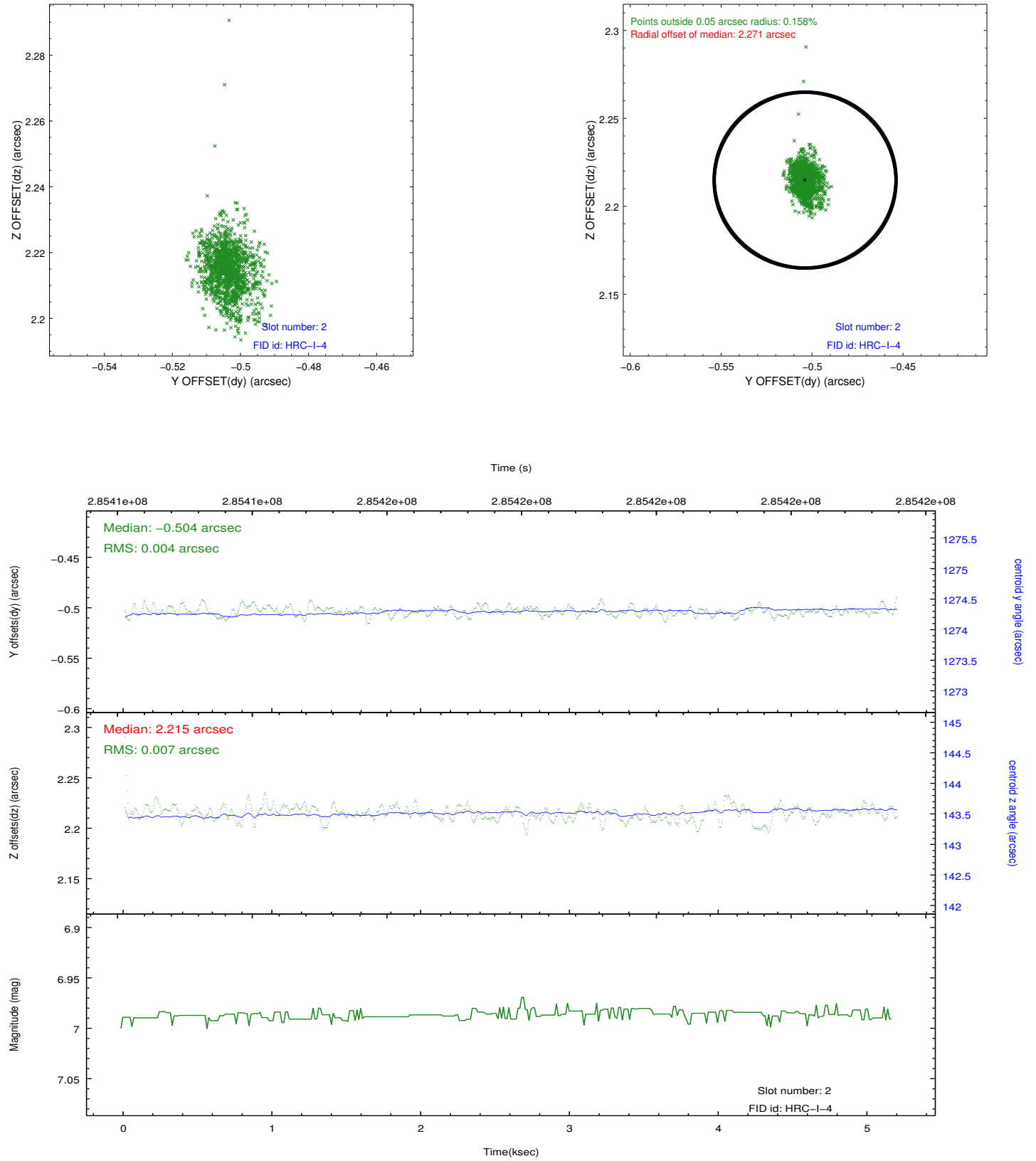
### 2.5.1 Slot 0



## 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)	2012.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18573149

## A.2 Comments

Large offsets in all three fidlights are due to the position of the target and aimpoint near the corner of the chip, and are expected in this instance.