

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11905 - L2 Version 2  
Chandra X-Ray Center

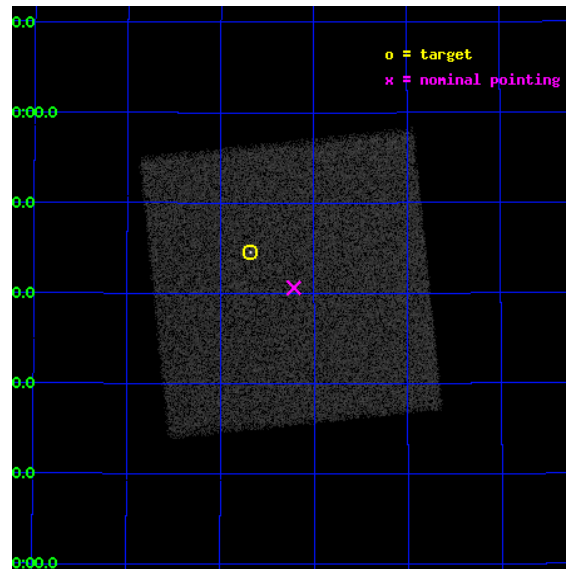
L2 Processing Date : Jul 3 2012

## 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

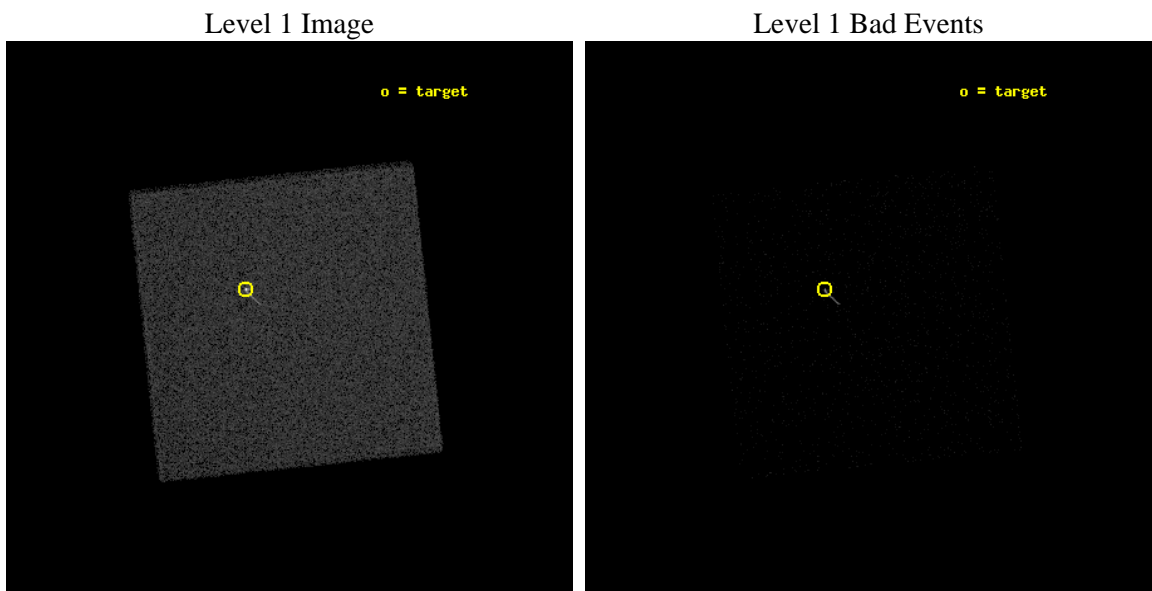
seq_num	290894	Sequence number
obs_id	11905	Observation id
title	AO-11 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.05370971177	Nominal RA [deg]
dec_nom	45.676865808505	Nominal Dec [deg]
roll_nom	219.00562787562	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1179.7750605941	[s]
livetime	1166.8760778576	Ontime multiplied by DTCOR
l2events	90453	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1179.7750605941	[s]
caldbver	4.5.0	&#160	l1events	160341	Number of level 1 events
date	2012-07-03T23:49:16	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

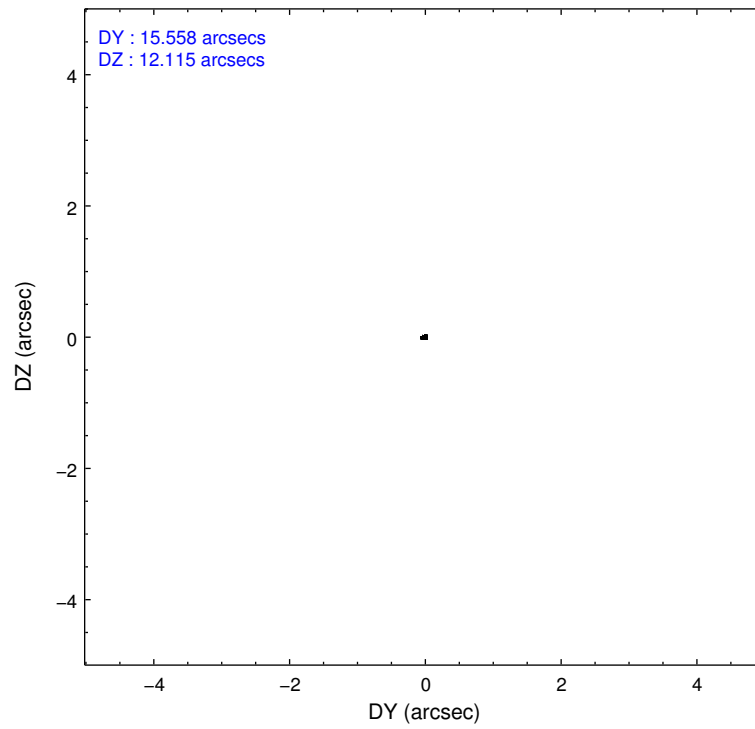
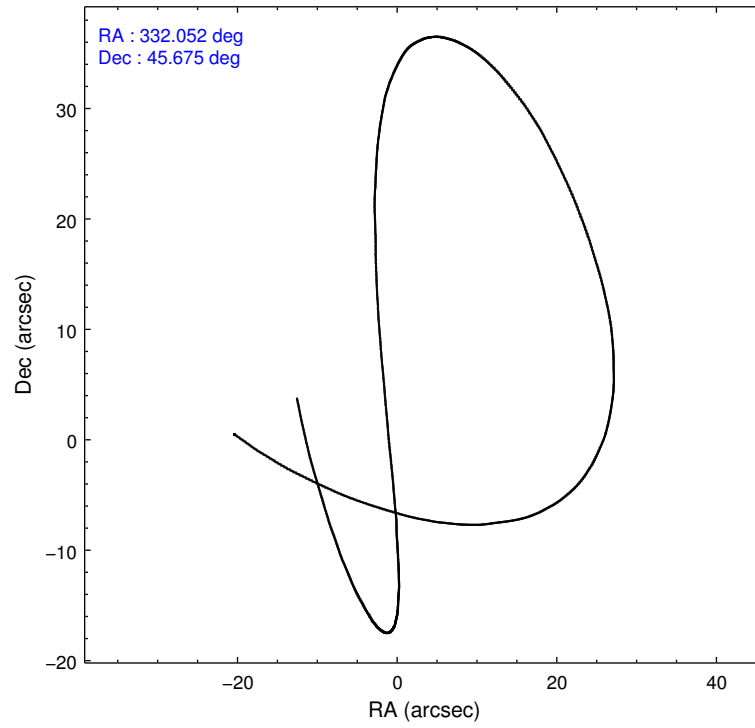
#### Level 1 Events

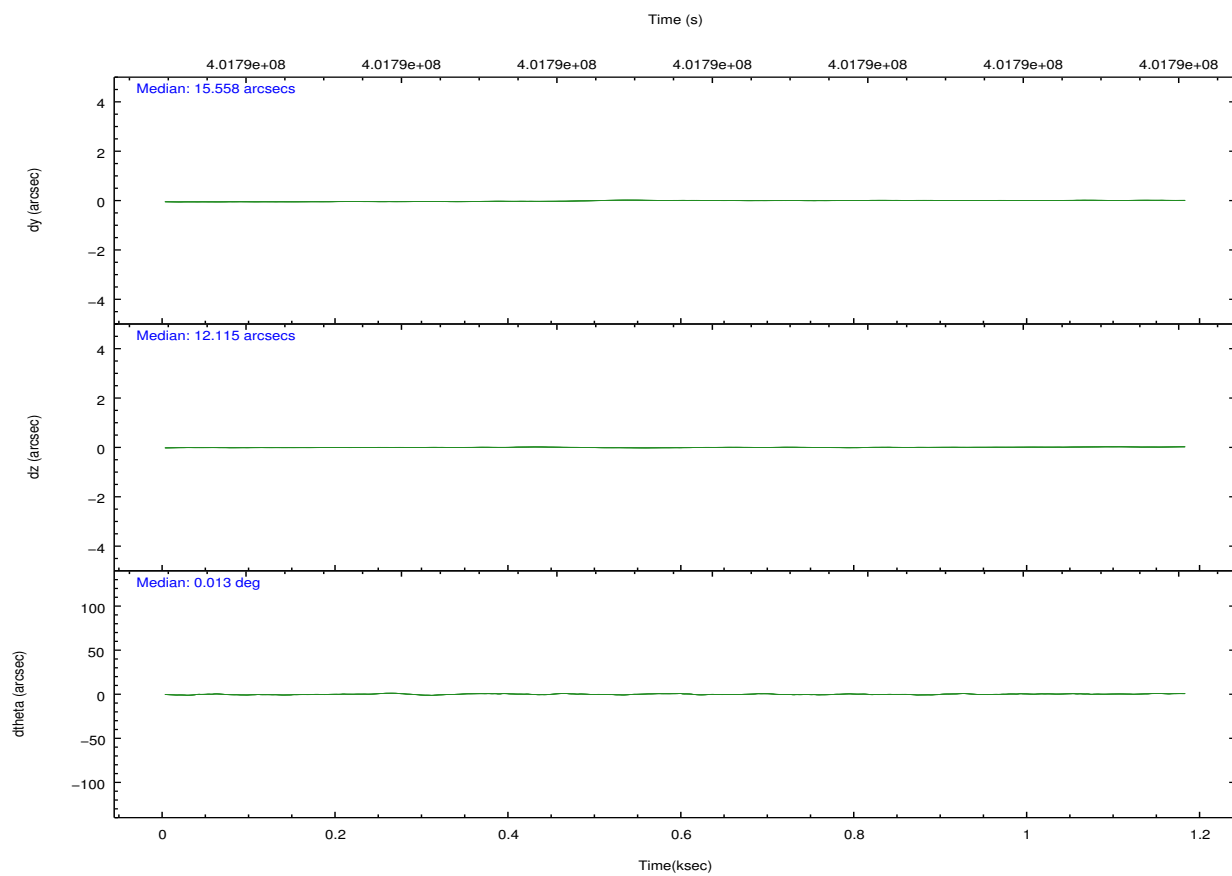
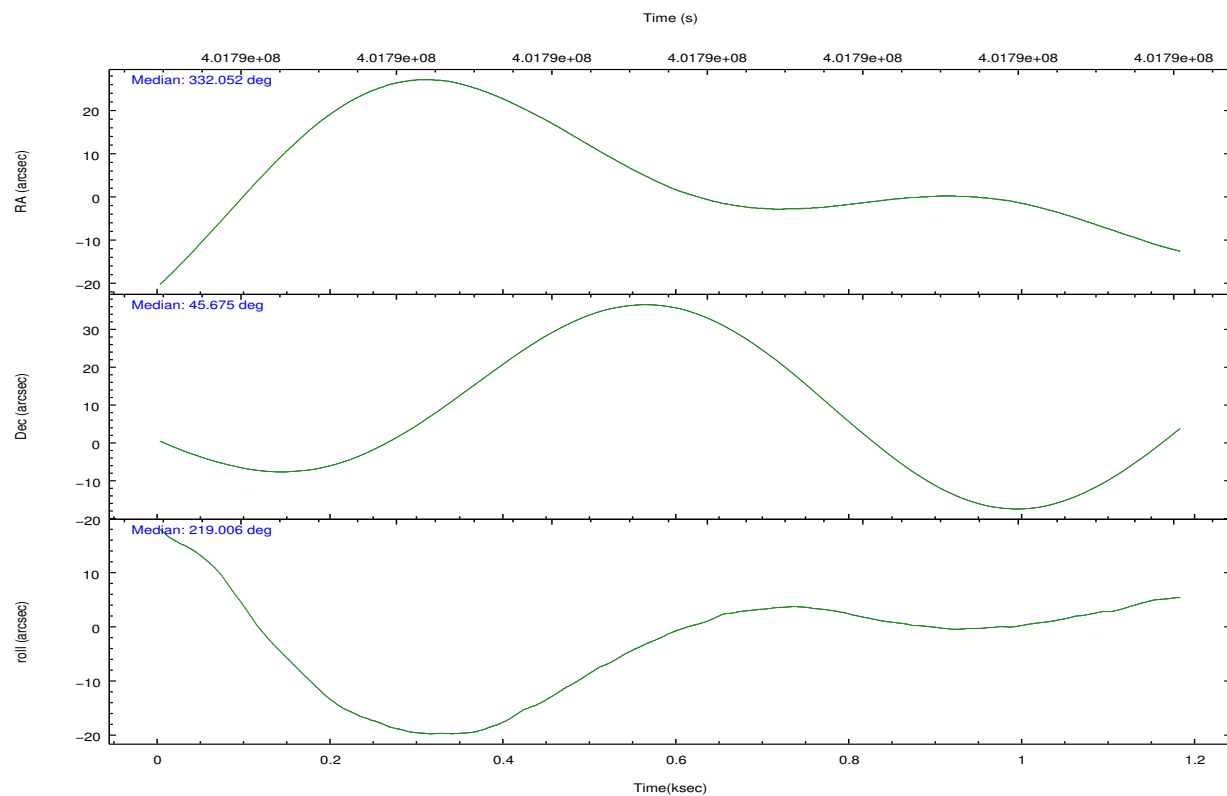
	<b>segment 0</b>
level 1 events	160341
rejected events	34811
rejected %	21%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.066136	332.053709711769			
[deg] Pointing Dec	45.703638	45.67686580850455			
[deg] Pointing Roll	219.092174	219.005627875615			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	401787543.184000	401787167.13788			
Observation start date	2010-09-25T07:37:57	2010-09-25T07:32:47			
[s] Observation end time (MET)	401788543.184000	401788676.96296			
Observation end date	2010-09-25T07:54:37	2010-09-25T07:57:56			

## 2.3 Aspect



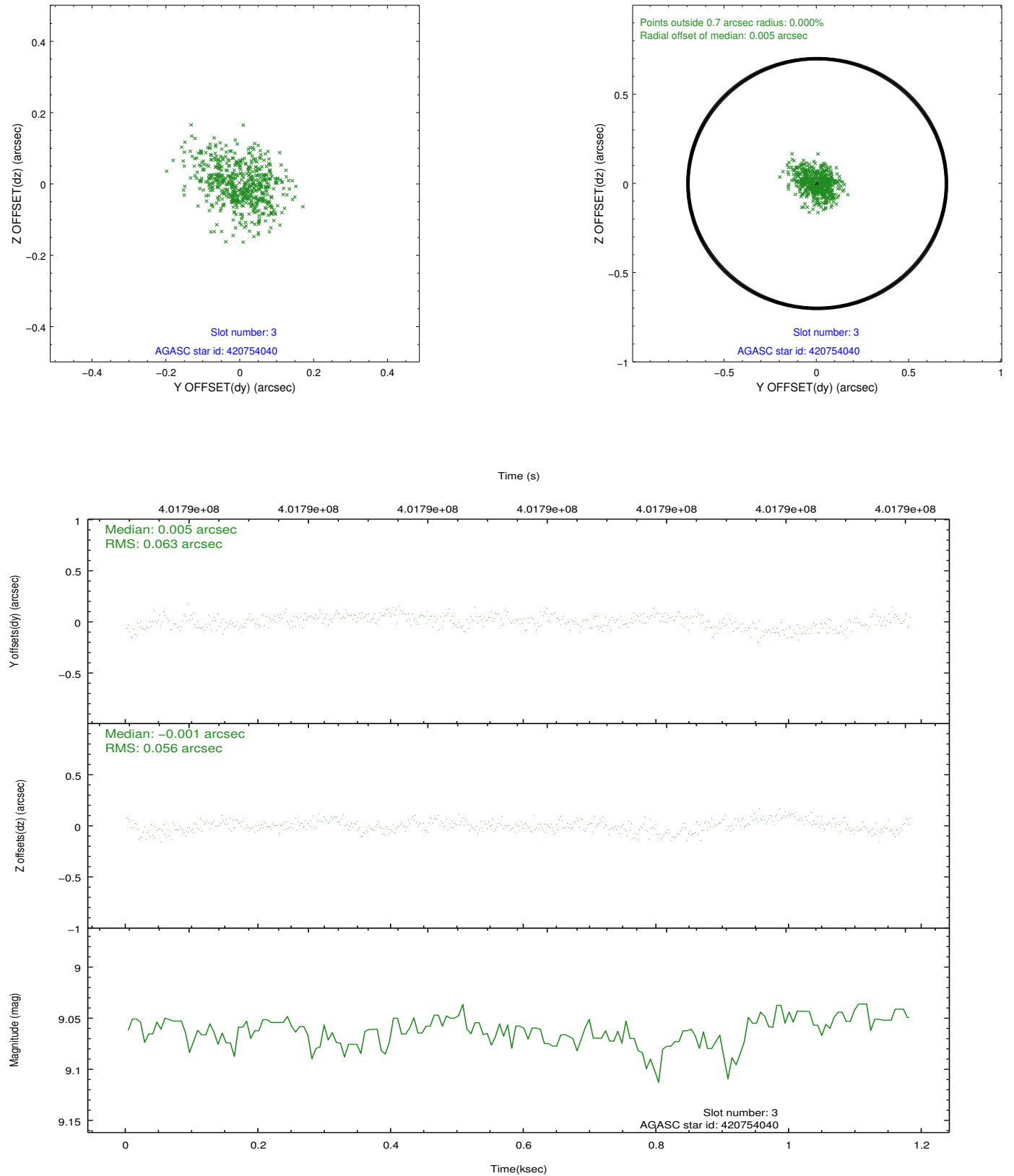


### Slot Statistics

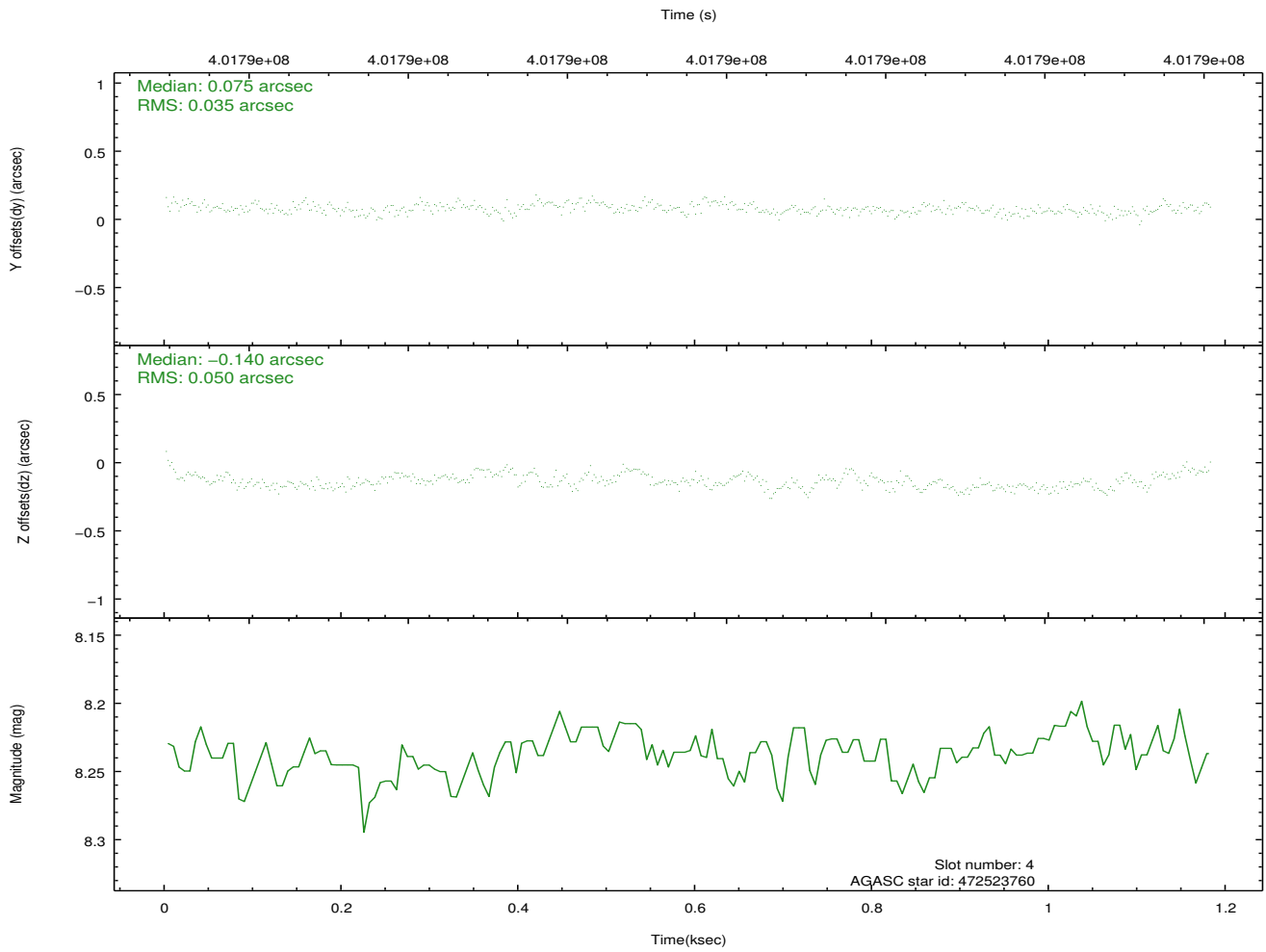
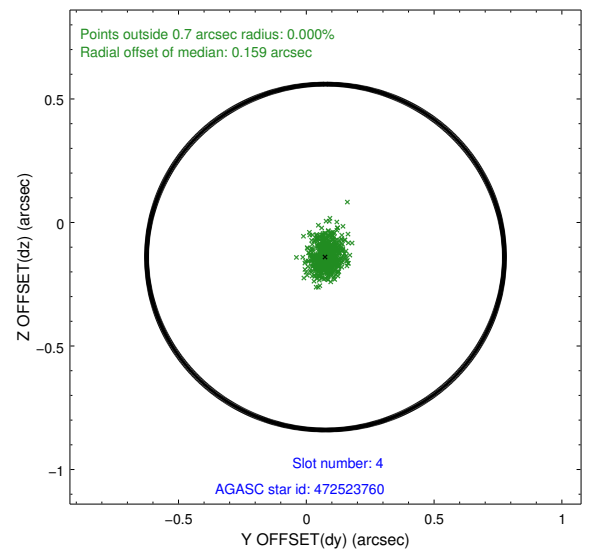
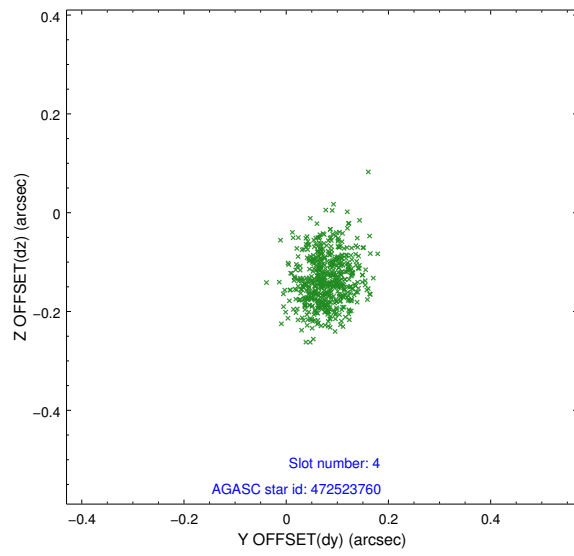
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	288	-0.102	-0.017	0.006	0.009	0.000000	0.000000	-771.56	-1300.08
1	FID	HRC-I-2	7.00	288	0.185	-0.080	0.008	0.013	0.000000	0.000000	838.68	-1306.34
2	FID	HRC-I-4	6.97	288	0.033	0.005	0.005	0.009	0.000000	0.000000	1274.44	997.43
3	GUIDE	420754040	9.06	577	0.005	-0.001	0.089	0.146	331.917939	44.882543	2155.03	2051.98
4	GUIDE	472523760	8.24	577	0.075	-0.140	0.064	0.103	331.645363	45.403260	1508.57	165.77
5	GUIDE	472525528	6.63	577	-0.238	0.041	0.088	0.135	331.551102	45.248694	2044.68	441.02
6	GUIDE	472533912	9.15	577	0.058	0.196	0.123	0.199	331.791136	46.368695	-977.60	-2293.09
7	GUIDE	472655152	9.42	576	0.115	-0.107	0.124	0.203	332.504239	45.862991	-1218.56	236.88

## 2.4 Star Slots

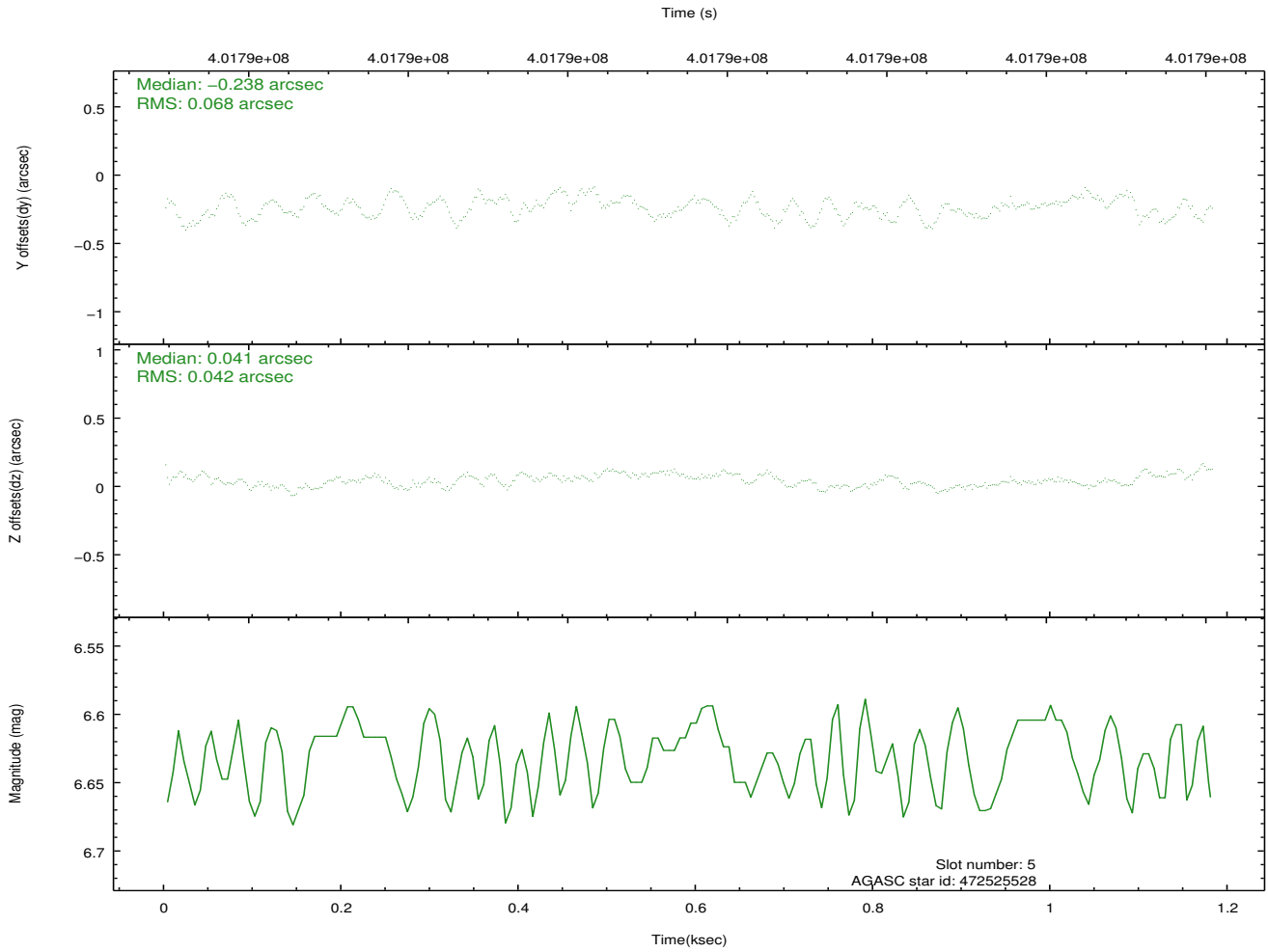
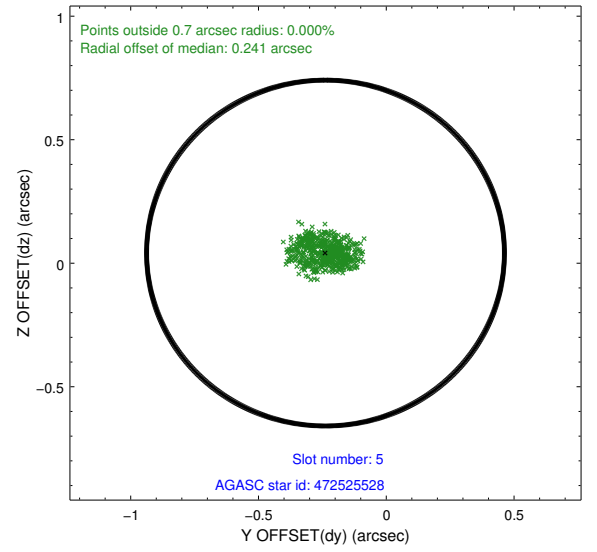
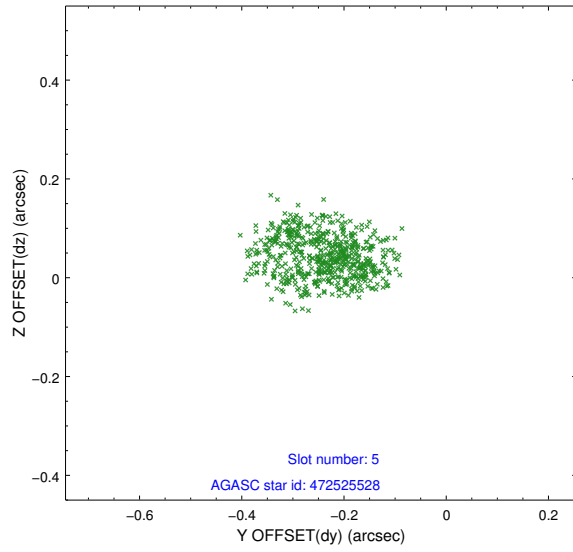
### 2.4.1 Slot 3



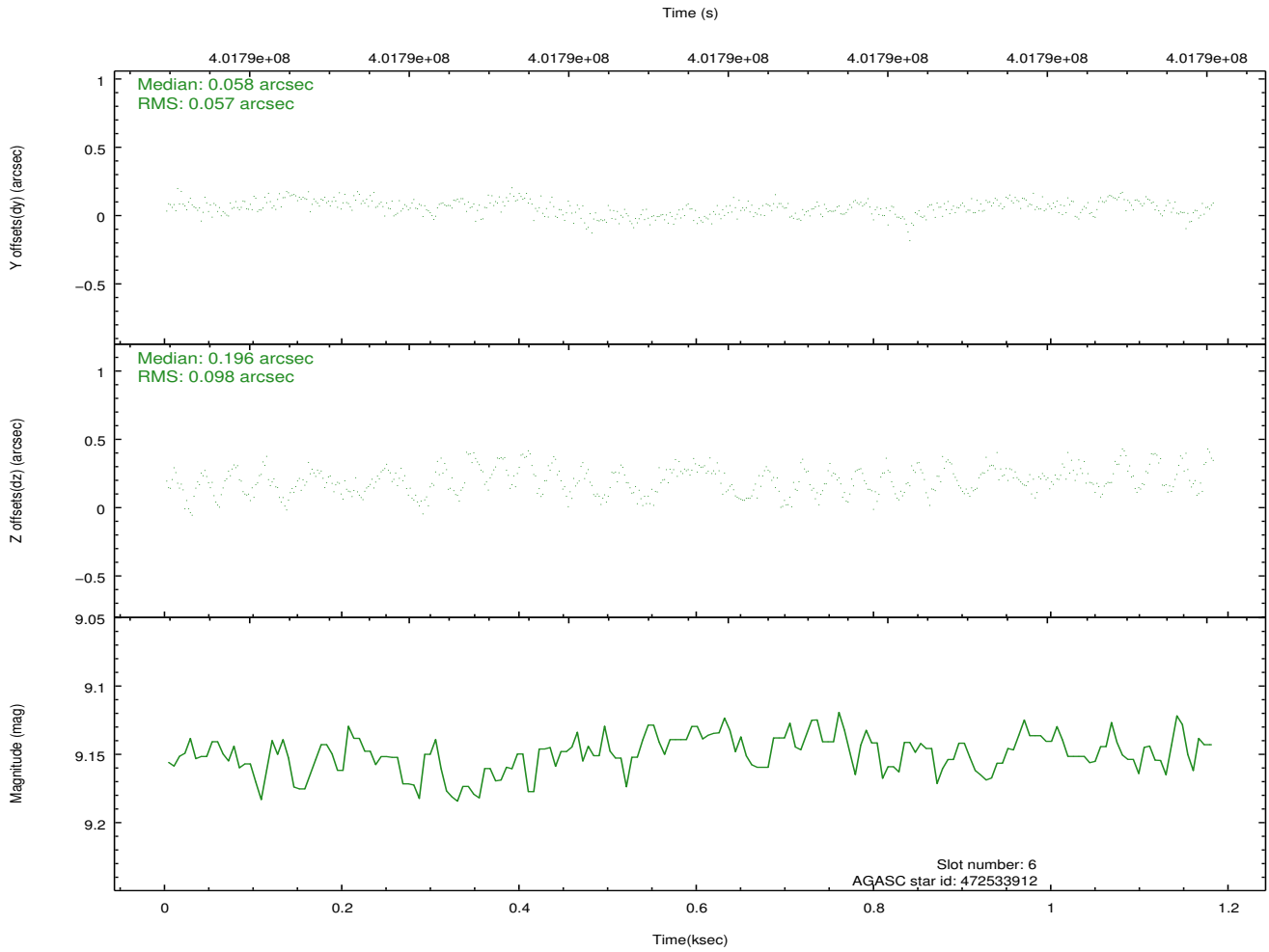
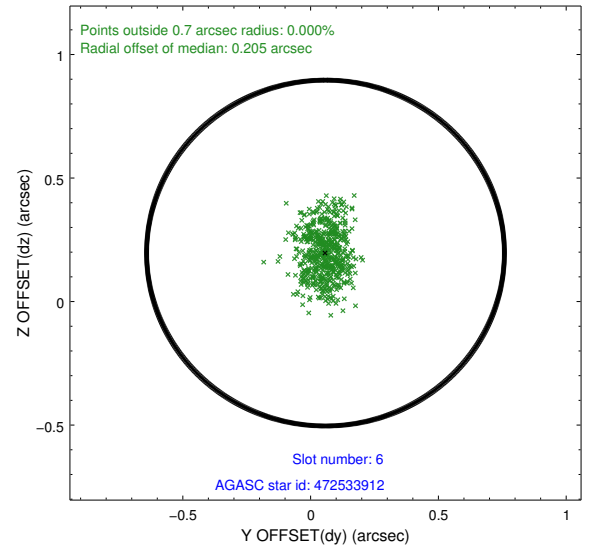
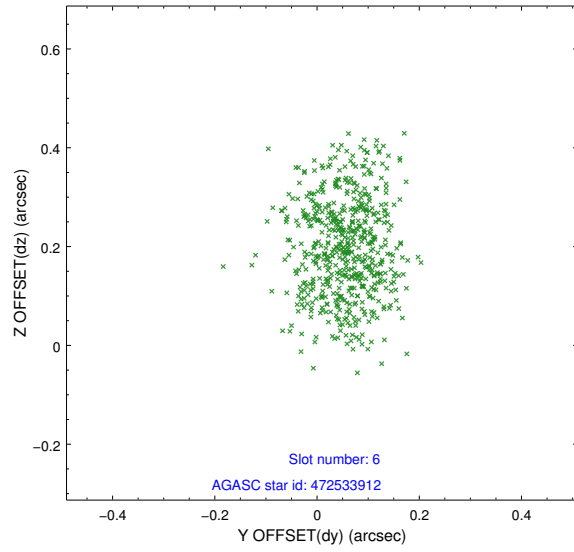
## 2.4.2 Slot 4



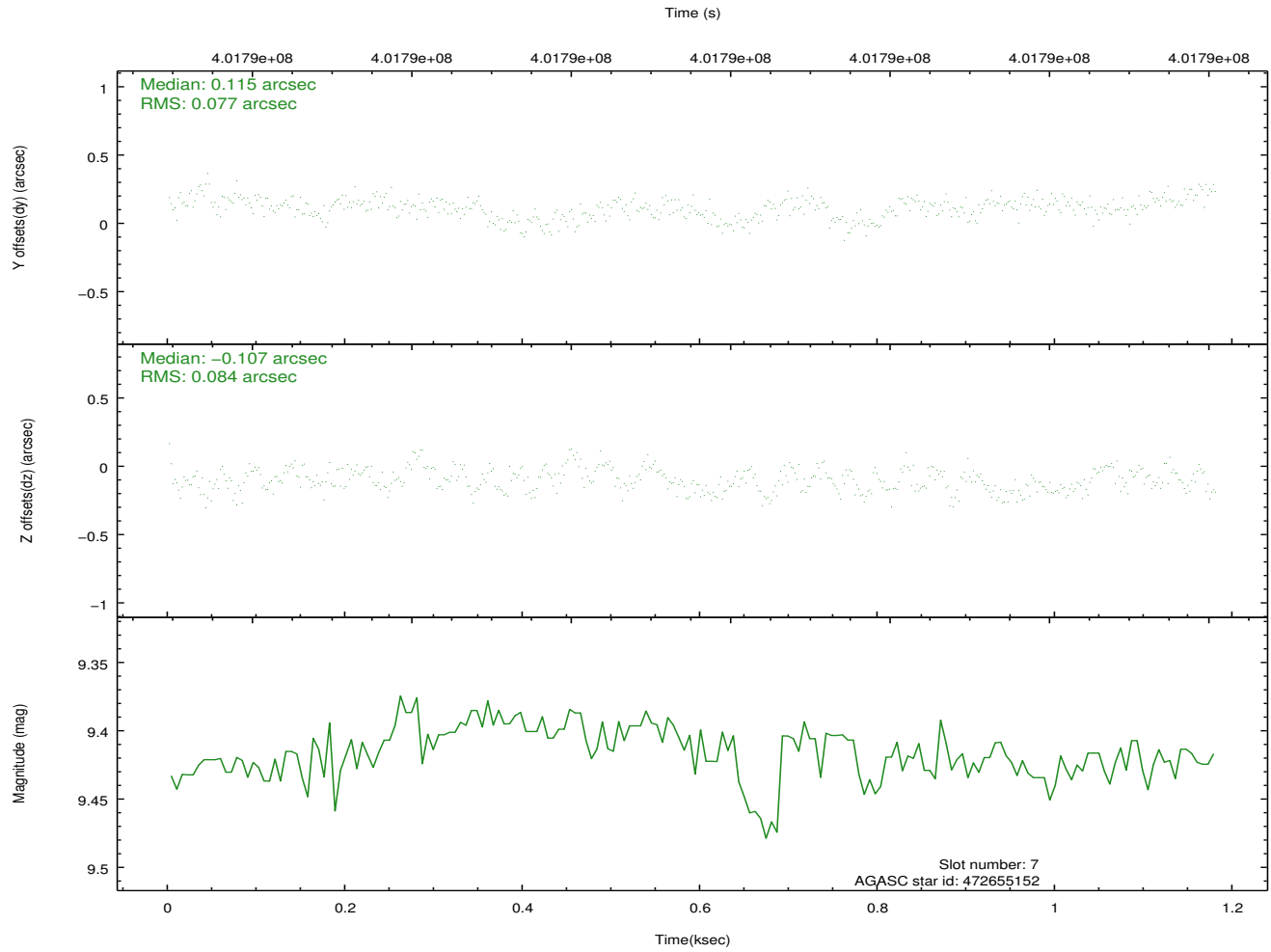
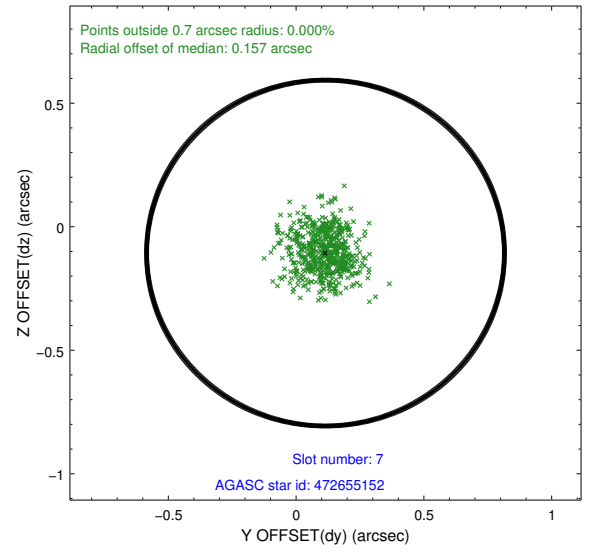
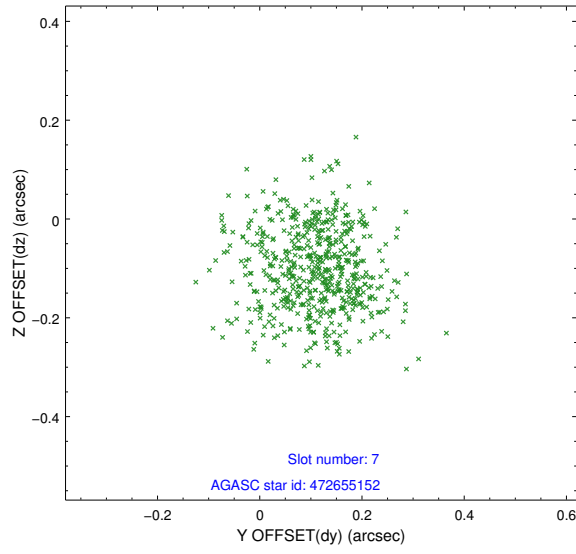
### 2.4.3 Slot 5



## 2.4.4 Slot 6

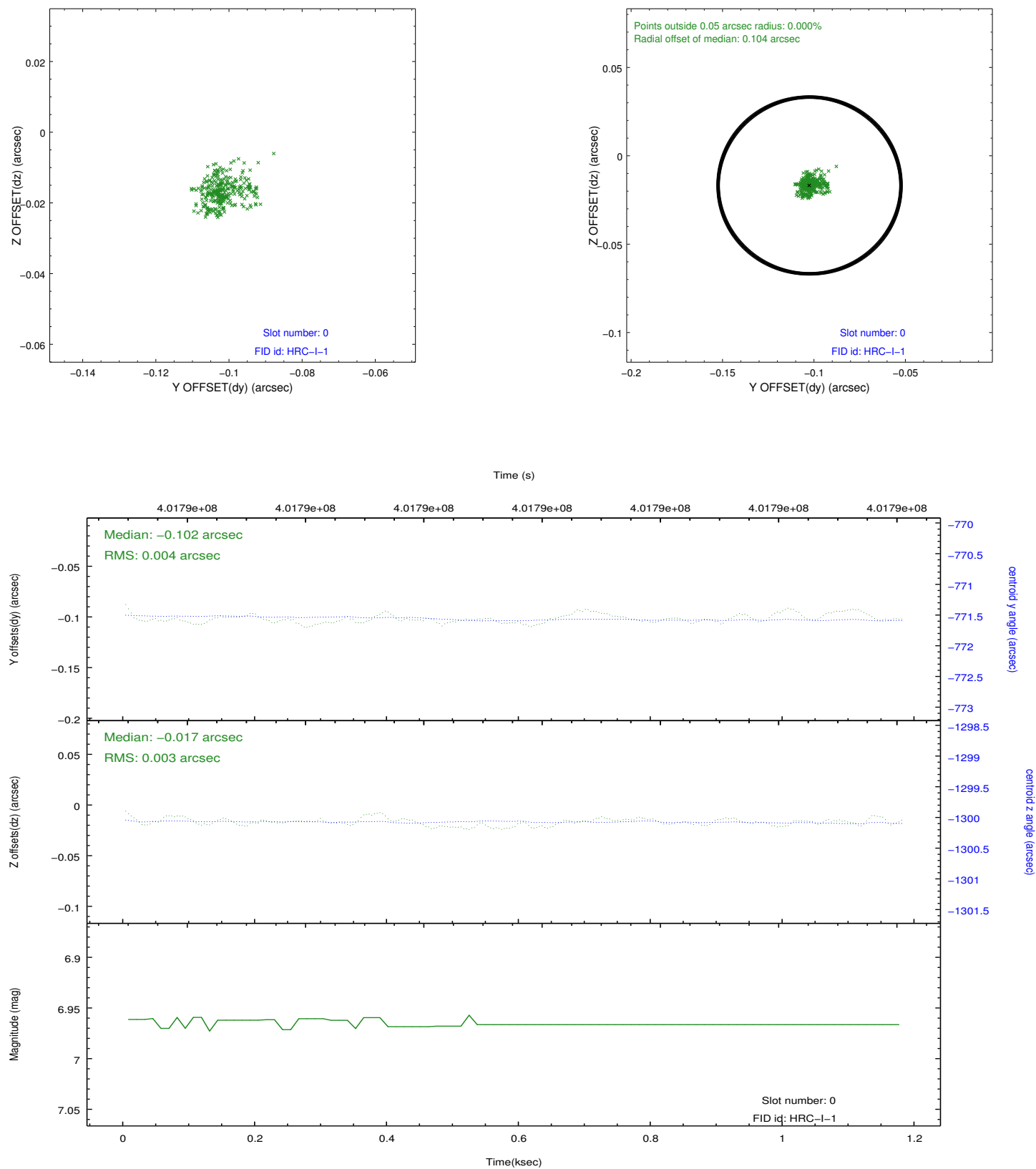


### 2.4.5 Slot 7

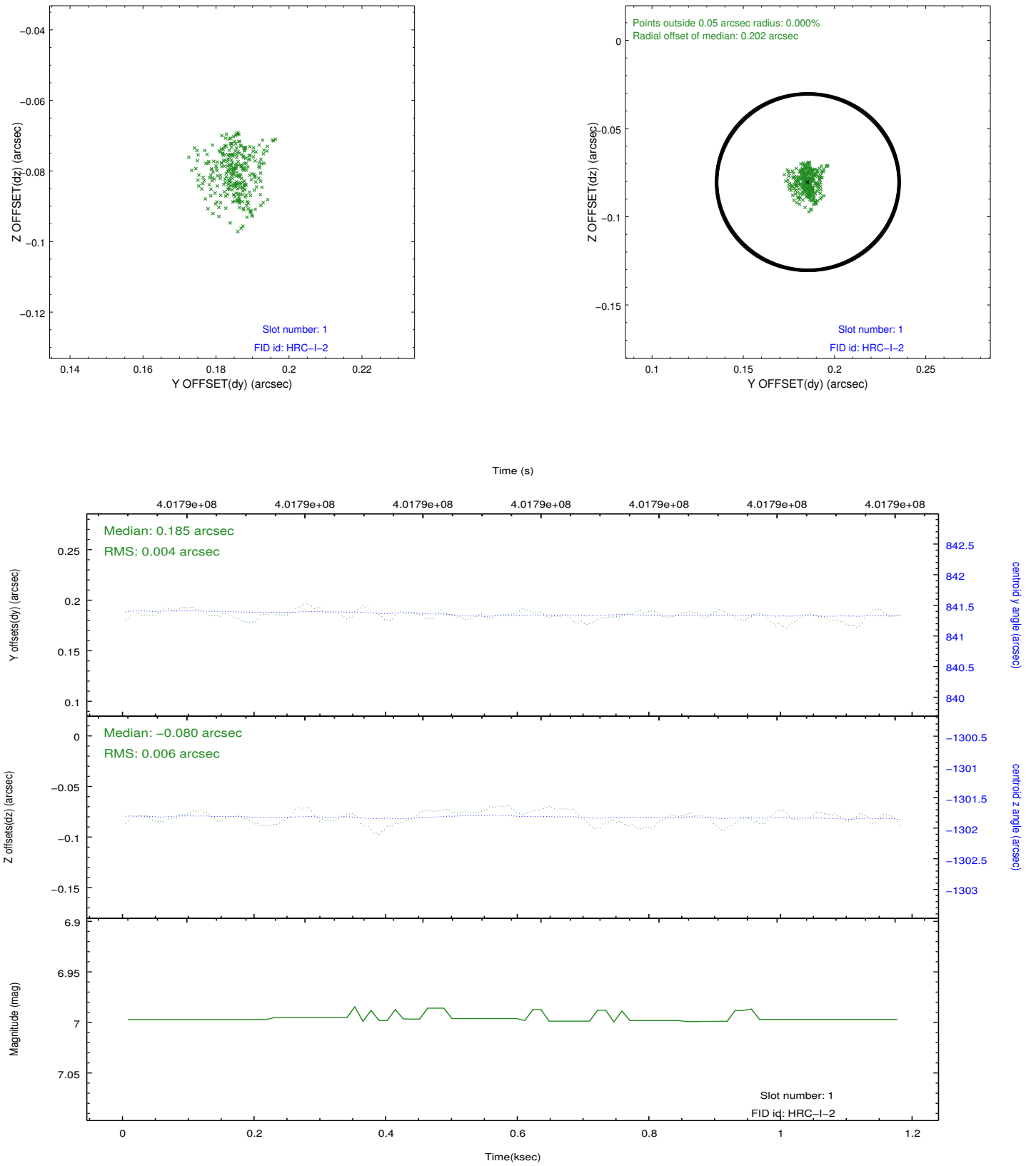


## 2.5 FID Slots

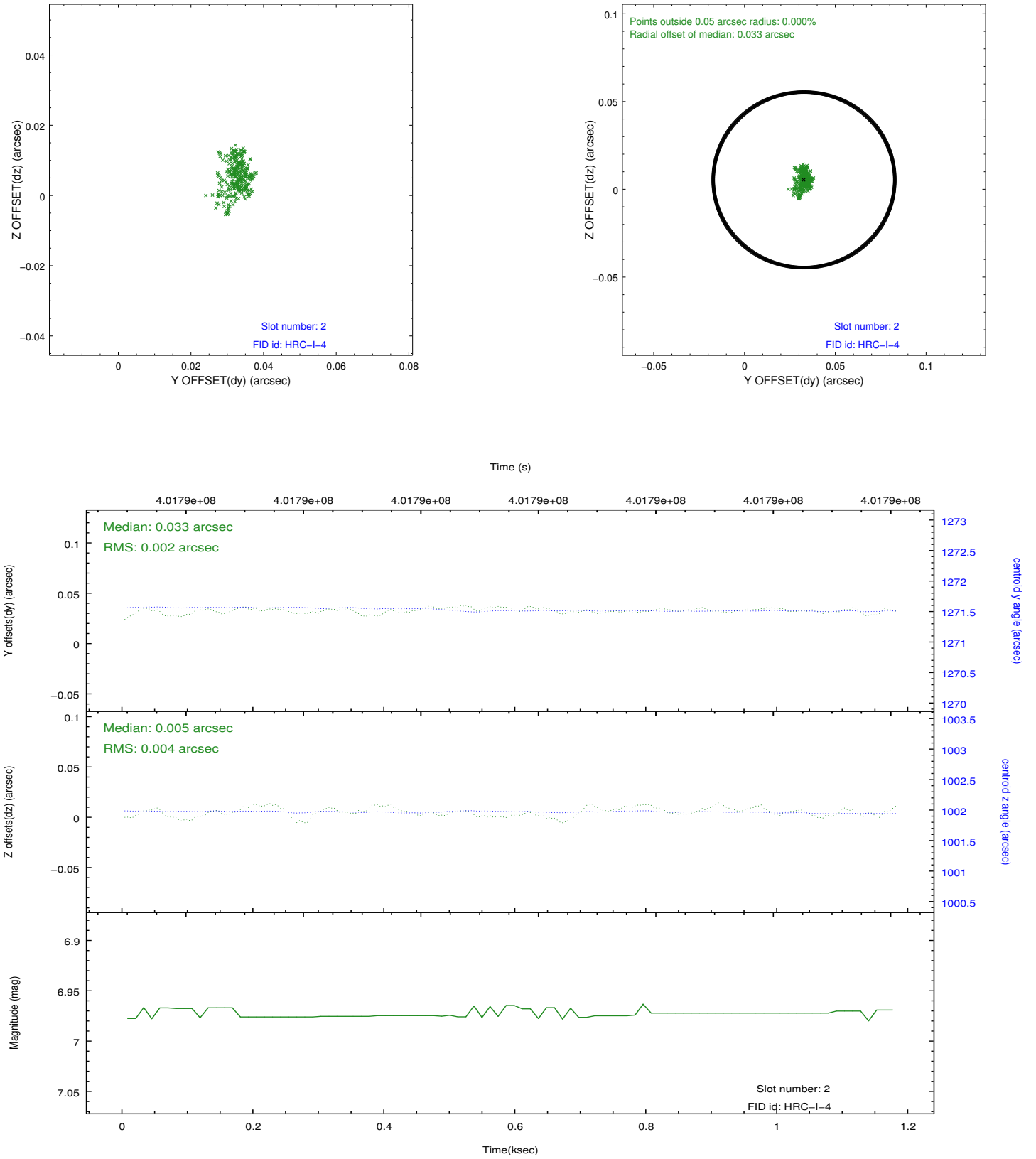
### 2.5.1 Slot 0



## 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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1797750605941

### A.2 Comments