

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10606 - L2 Version 3  
Chandra X-Ray Center

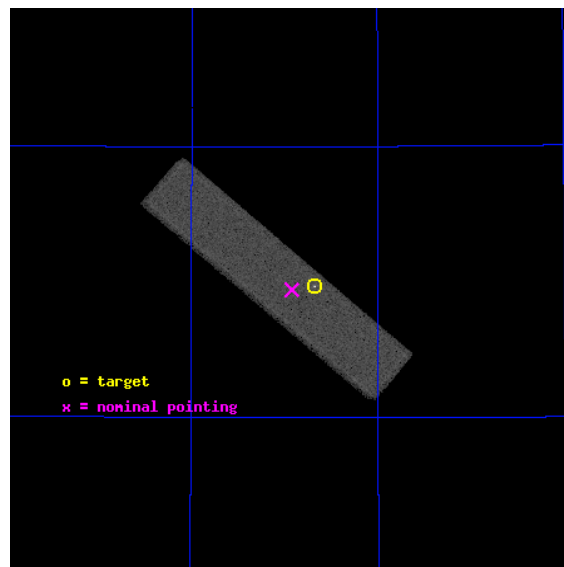
L2 Processing Date : Aug 13 2012

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# 1 Front

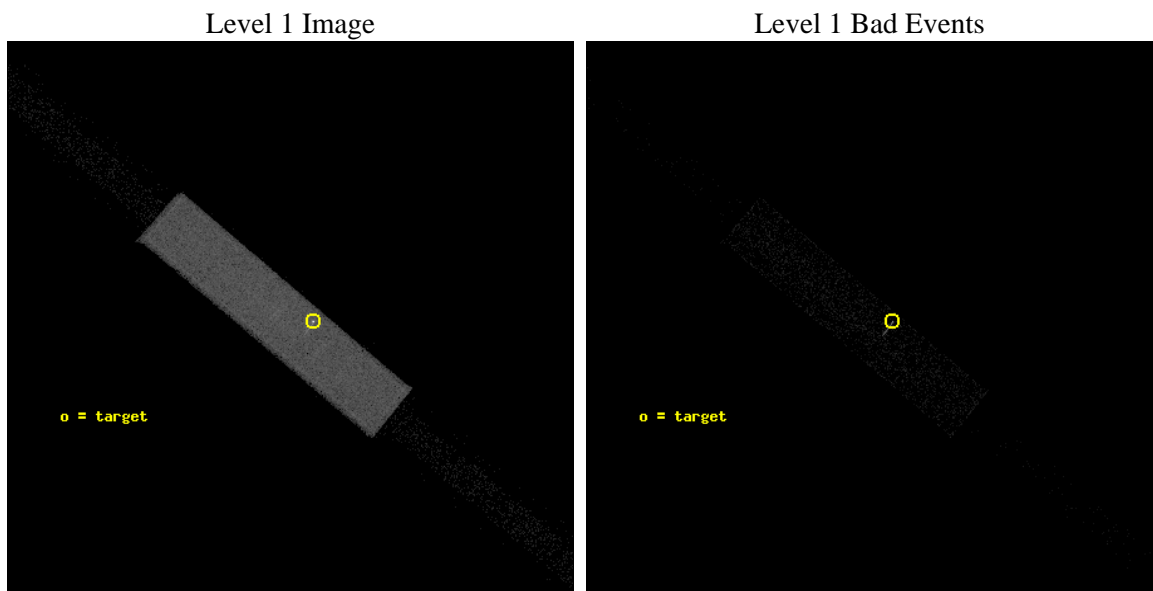
seq_num	290842	Sequence number
obs_id	10606	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.23061527365	Nominal RA [deg]
dec_nom	45.735798942106	Nominal Dec [deg]
roll_nom	220.11539247024	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1177.7250591516	[s]
livetime	1166.3253442071	Ontime multiplied by DTCOR
l2events	82231	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	1177.7250591516	[s]
caldbver	4.5.1.1	&#160	l1events	126134	Number of level 1 events
date	2012-08-13T16:05:35	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

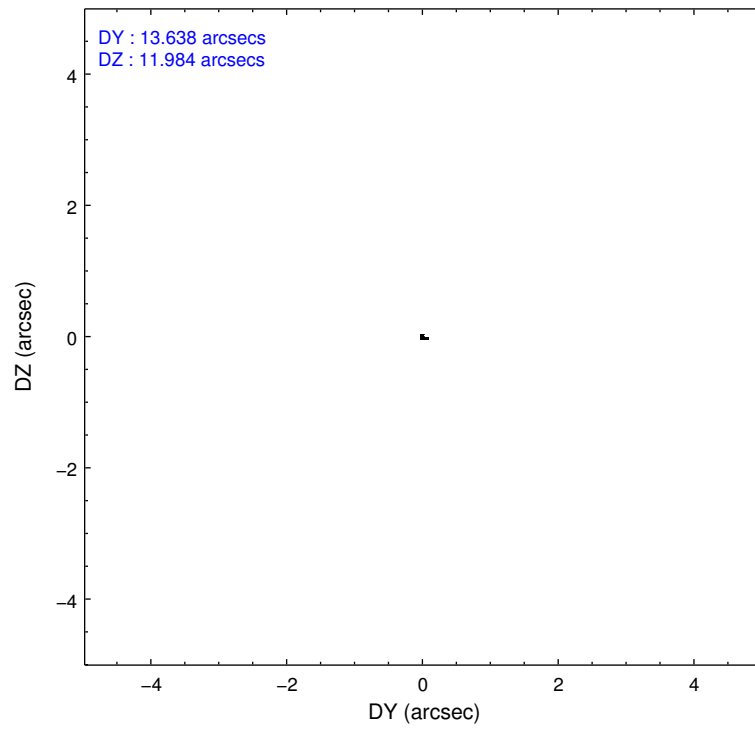
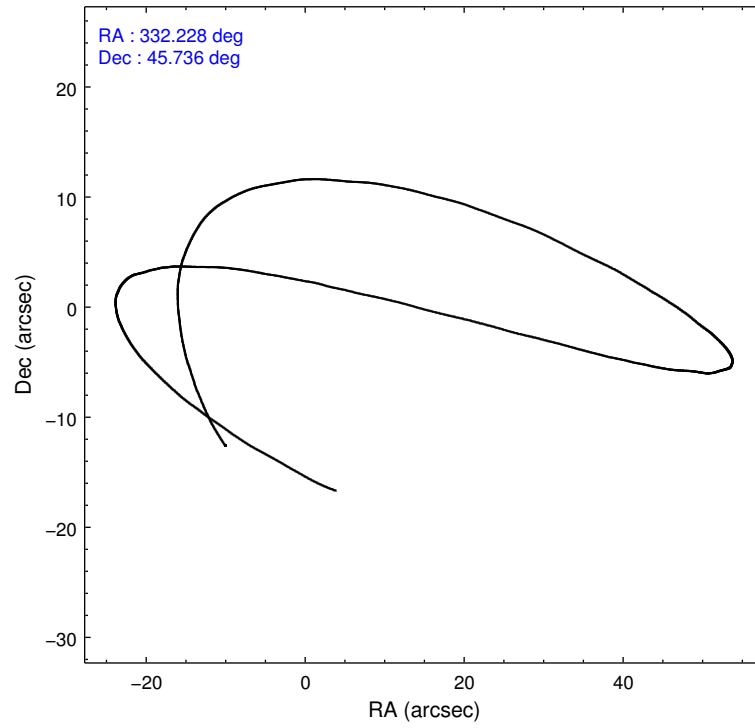
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1162	123840	1132
rejected events	1162	26254	1132
rejected %	100%	21%	100%

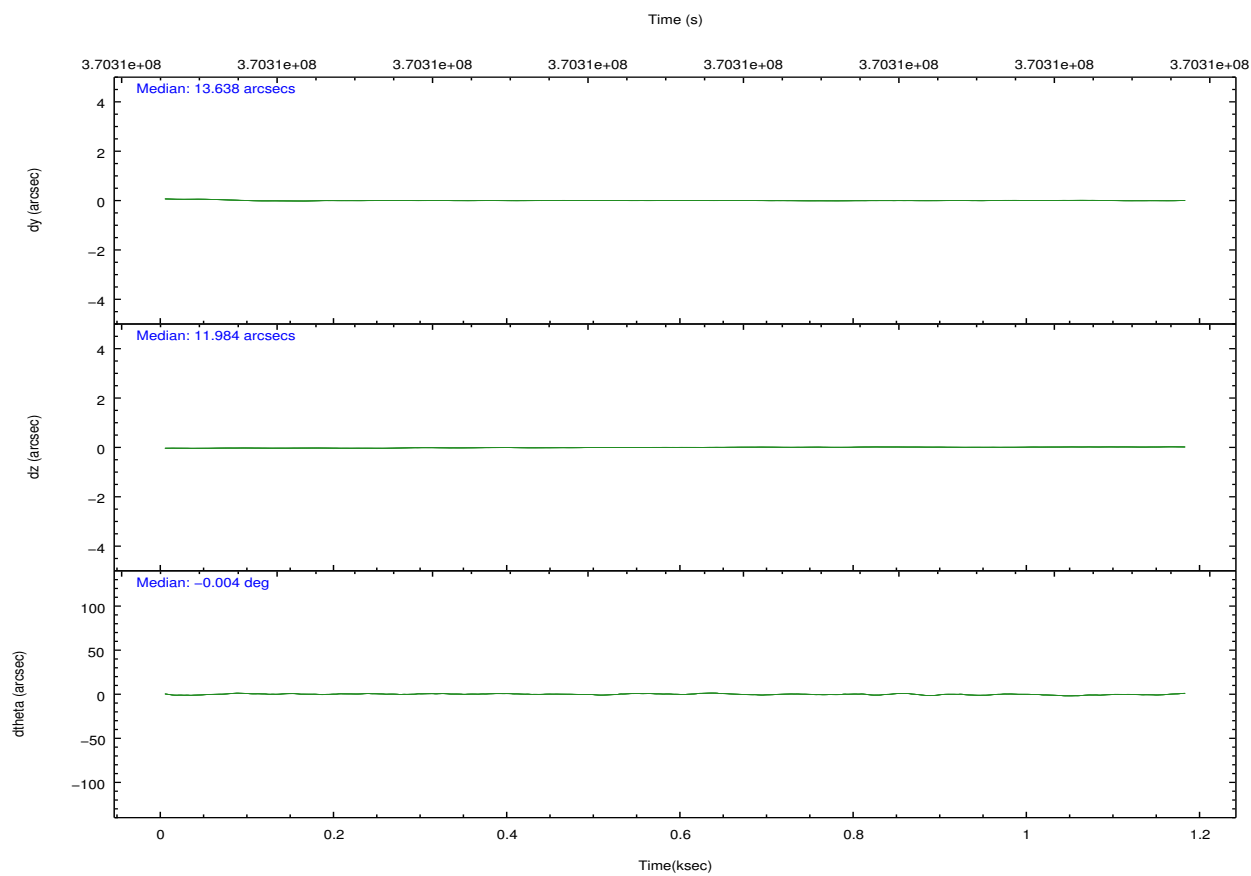
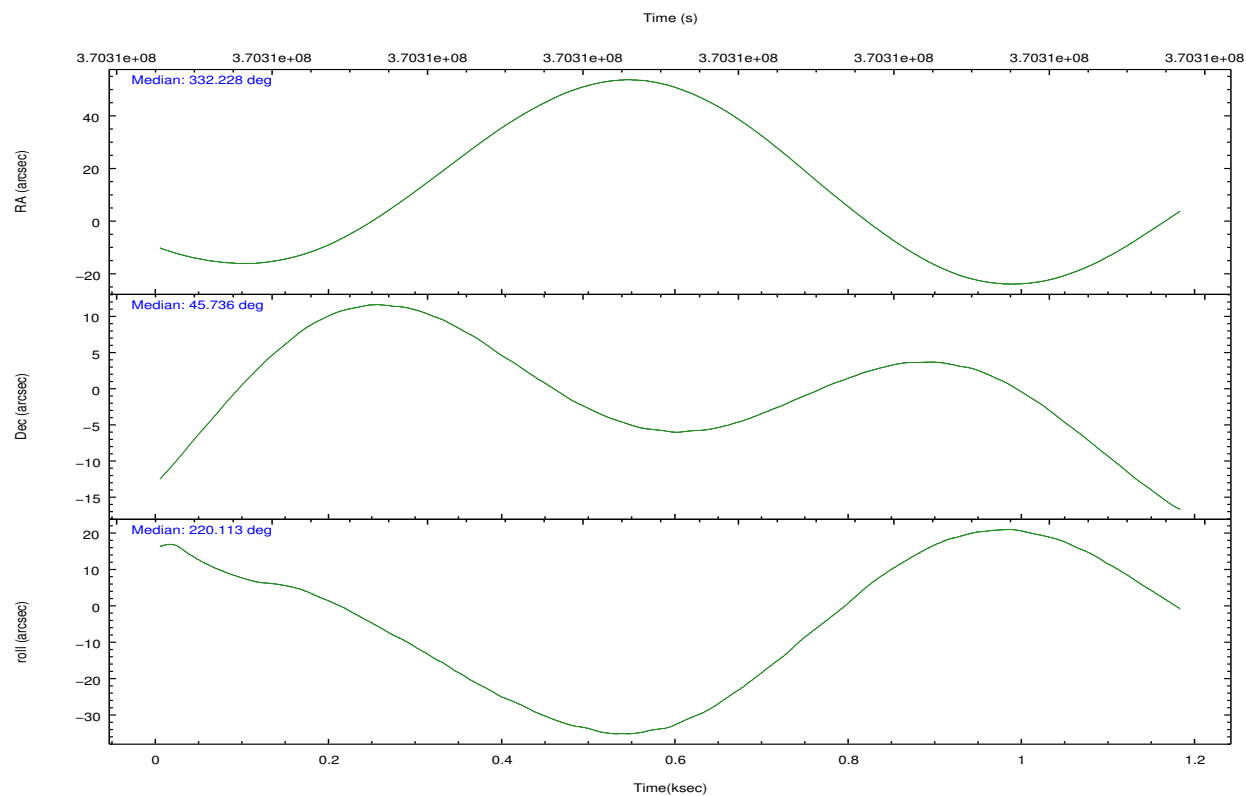
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.244061	332.2306152736497
[deg] Pointing Dec	45.762677	45.73579894210597
[deg] Pointing Roll	220.038375	220.1153924702351
[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)	370313303.184000	370312927.18936
Observation start date	2009-09-26T00:47:17	2009-09-26T00:42:07
[s] Observation end time (MET)	370314303.184000	370314437.01444
Observation end date	2009-09-26T01:03:57	2009-09-26T01:07:17

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

## 2.3 Aspect





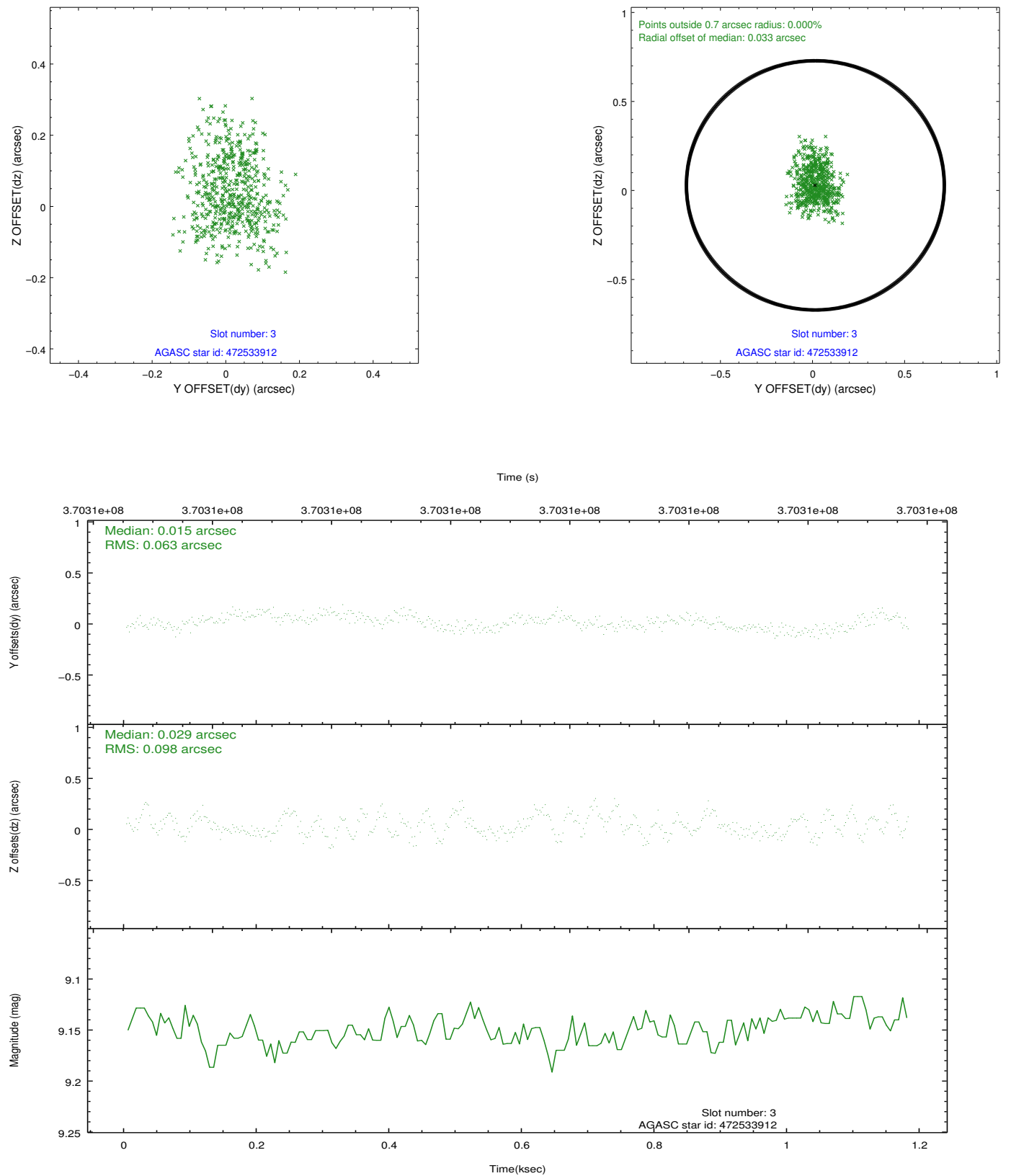
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	288	0.074	-0.127	0.006	0.010	0.000000	0.000000	-1168.00	-460.73
1	FID	HRC-S-2	6.97	288	0.213	-0.112	0.006	0.010	0.000000	0.000000	1227.74	-454.91
2	FID	HRC-S-3	6.98	288	0.103	-0.064	0.009	0.012	0.000000	0.000000	-1166.45	567.28
3	GUIDE	472533912	9.15	576	0.015	0.029	0.123	0.204	331.791136	46.368695	-544.98	-2392.45
4	GUIDE	472649352	9.76	575	-0.134	-0.154	0.140	0.222	332.034169	45.325407	1416.79	862.82
5	GUIDE	472654568	9.40	576	-0.027	0.116	0.130	0.207	332.194449	45.063576	1716.93	1851.55
6	GUIDE	472655152	9.42	576	0.060	-0.138	0.123	0.223	332.504239	45.862991	-730.34	149.54
7	GUIDE	472665256	9.03	575	0.093	0.137	0.091	0.140	332.808125	46.195041	-2082.81	-286.89

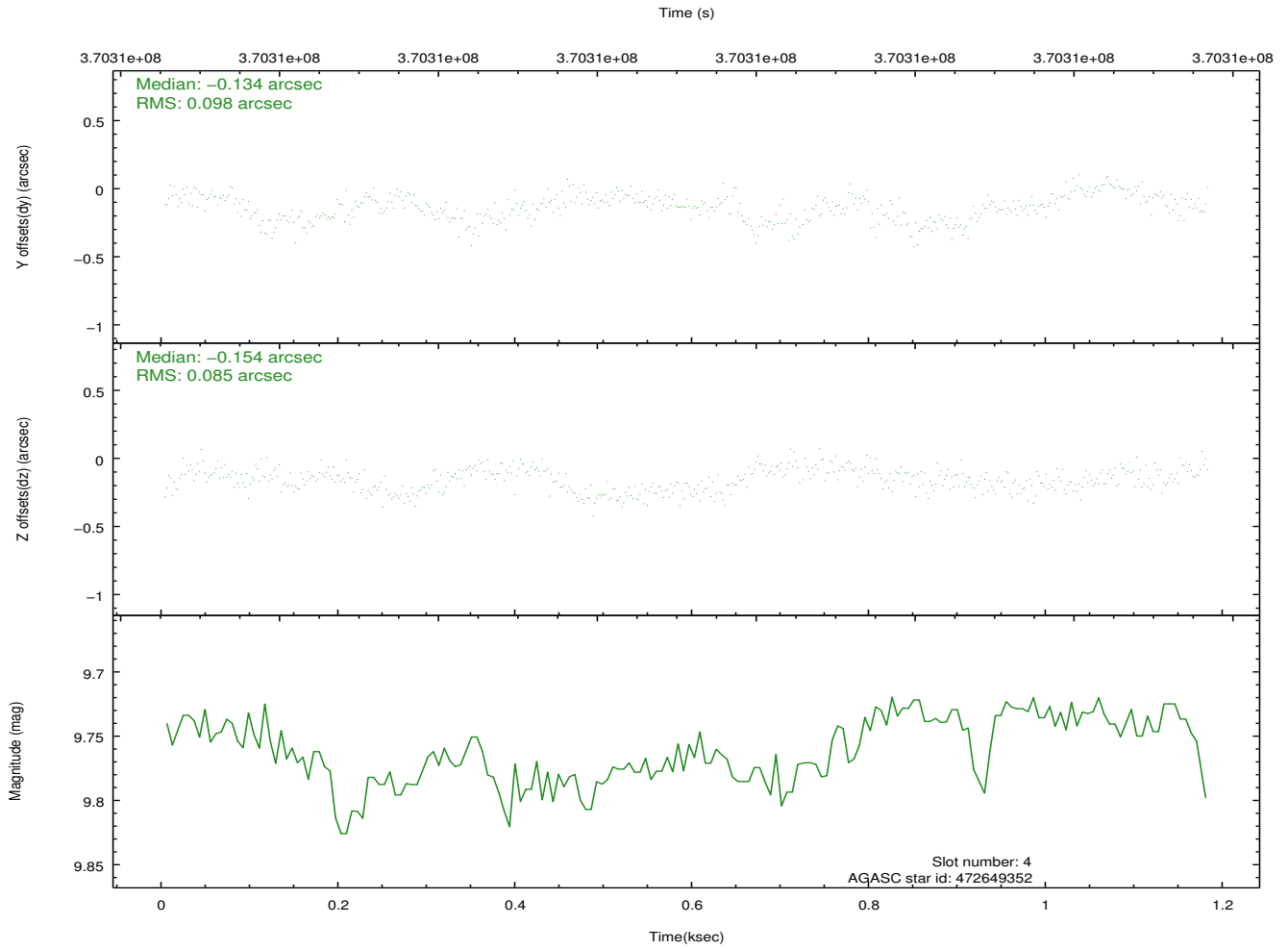
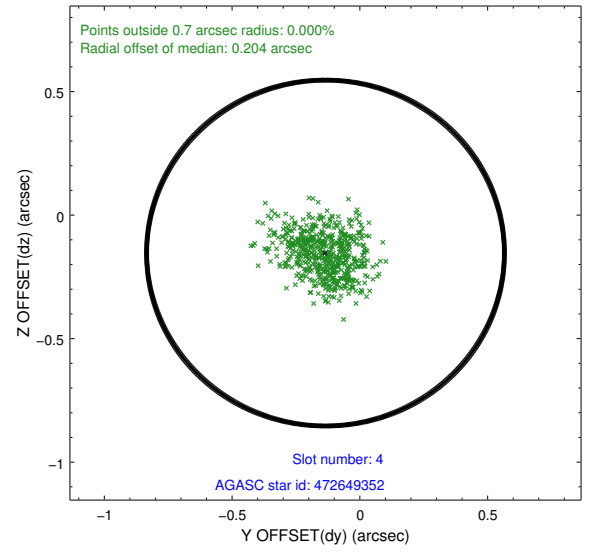
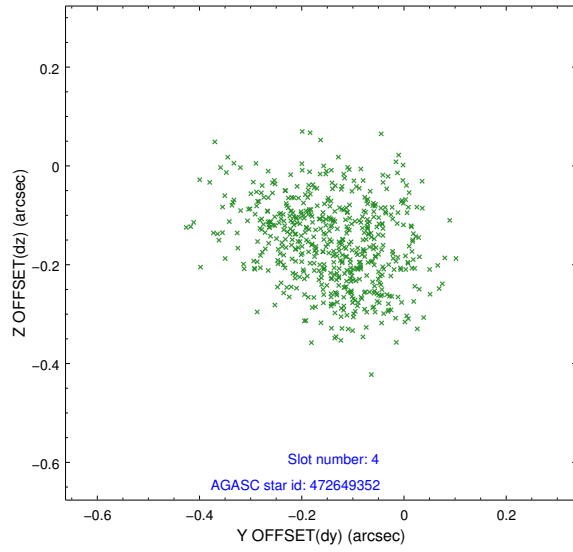


## 2.4 Star Slots

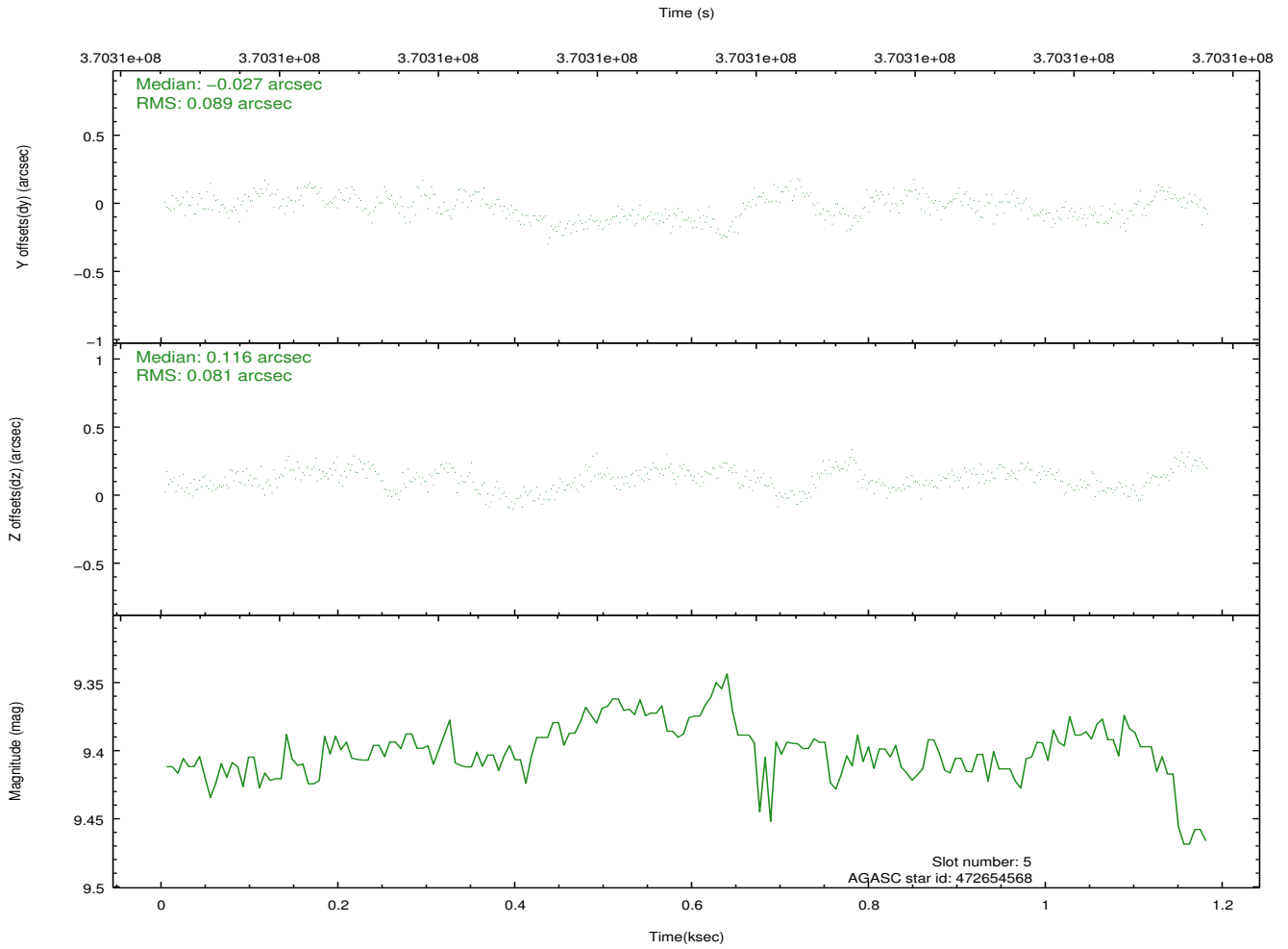
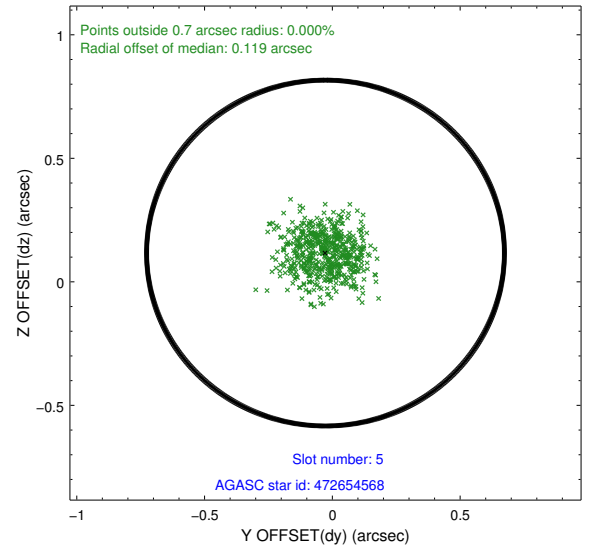
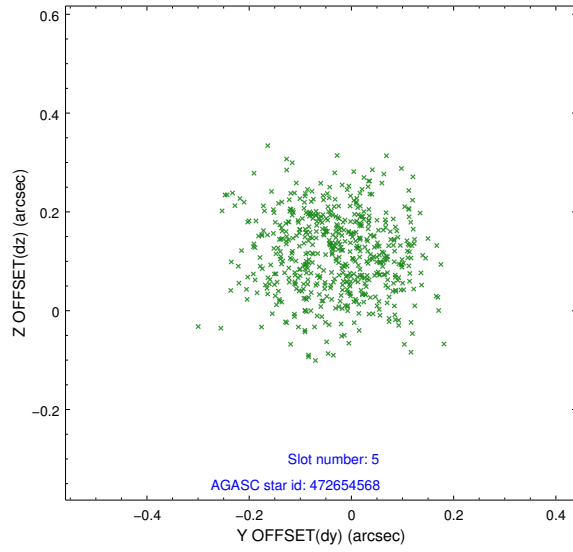
### 2.4.1 Slot 3



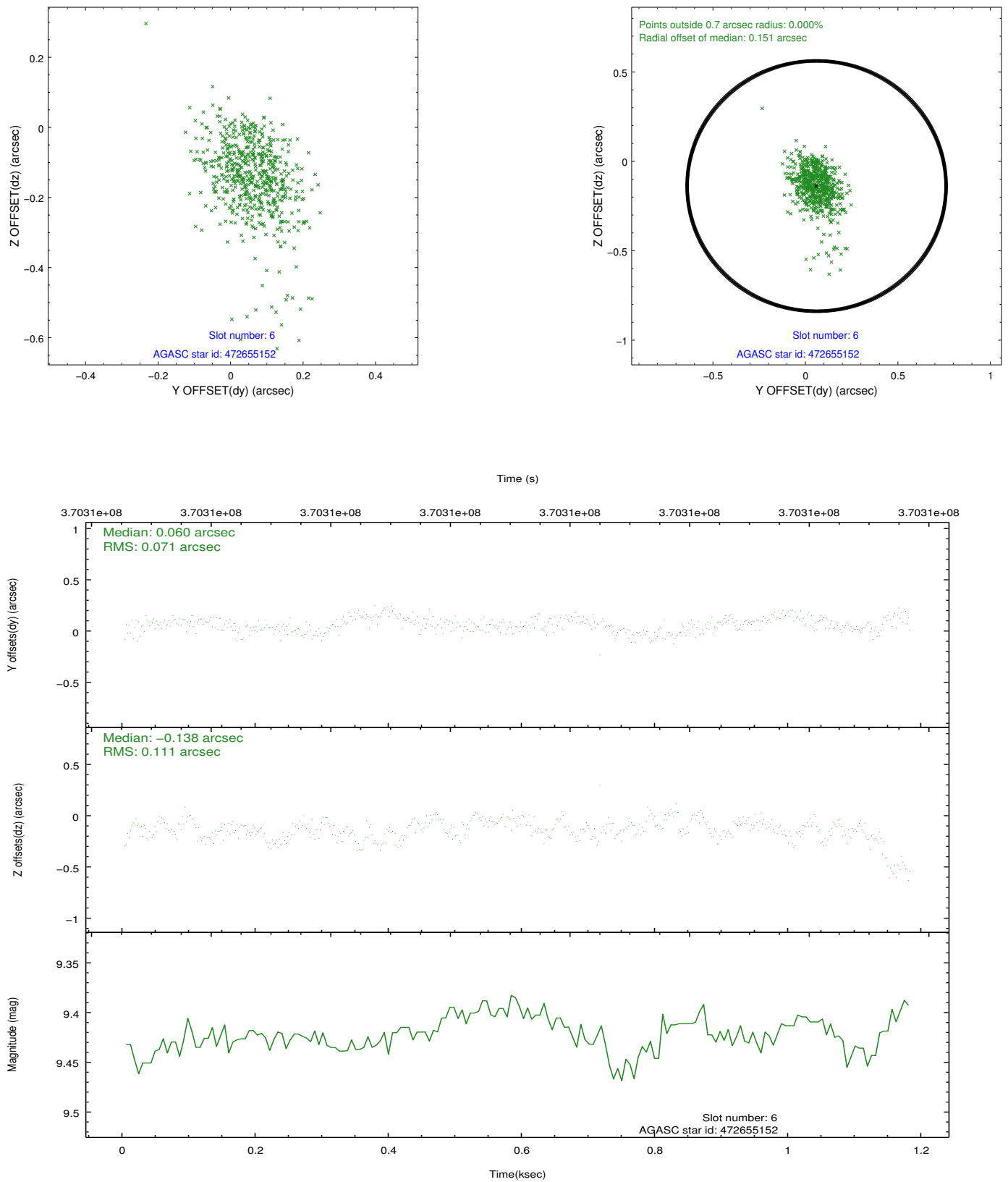
## 2.4.2 Slot 4



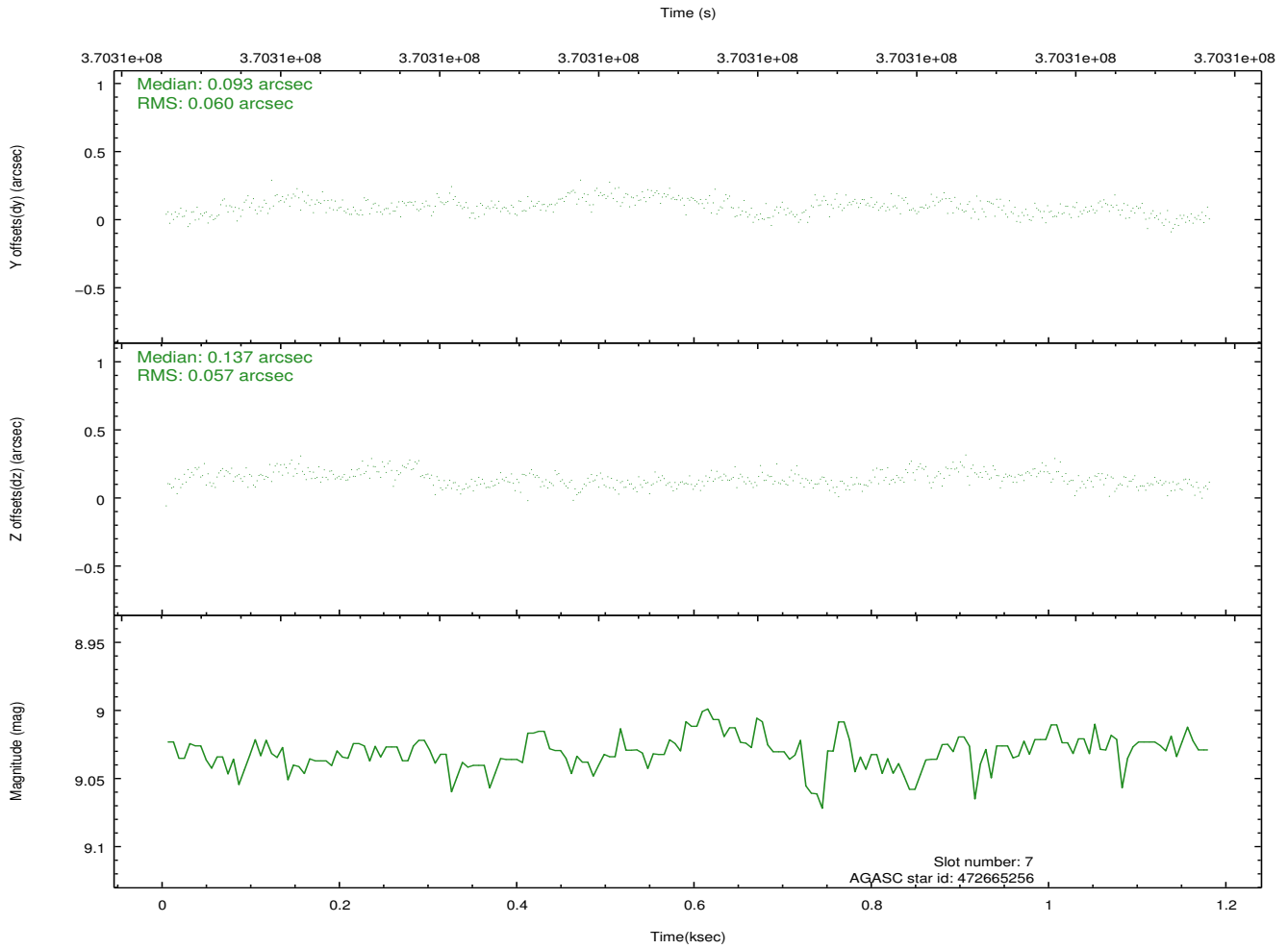
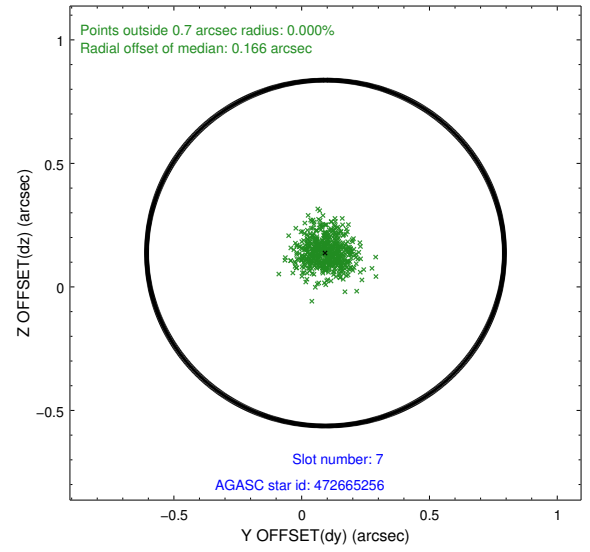
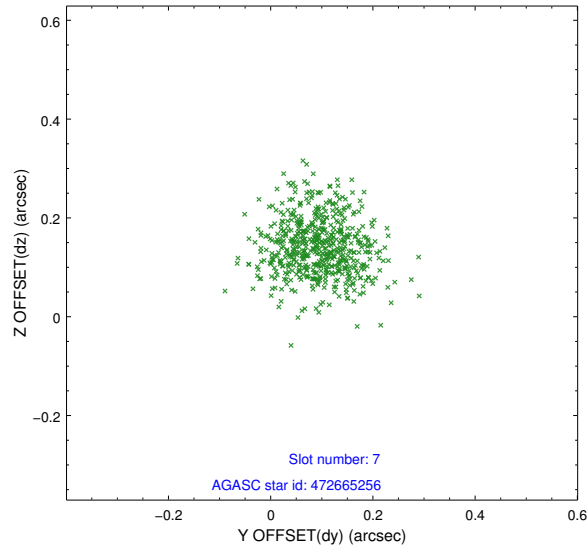
### 2.4.3 Slot 5



## 2.4.4 Slot 6

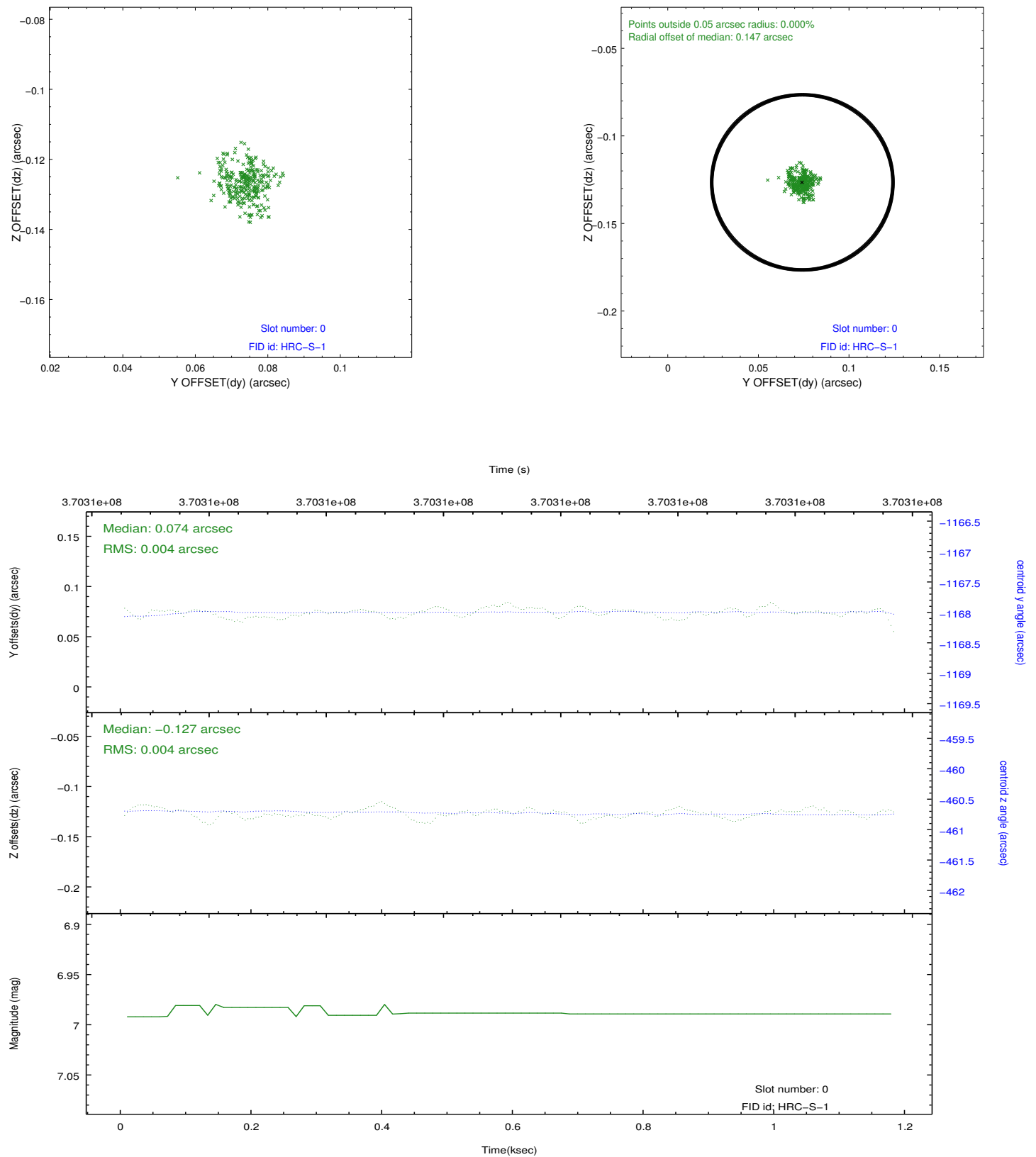


## 2.4.5 Slot 7

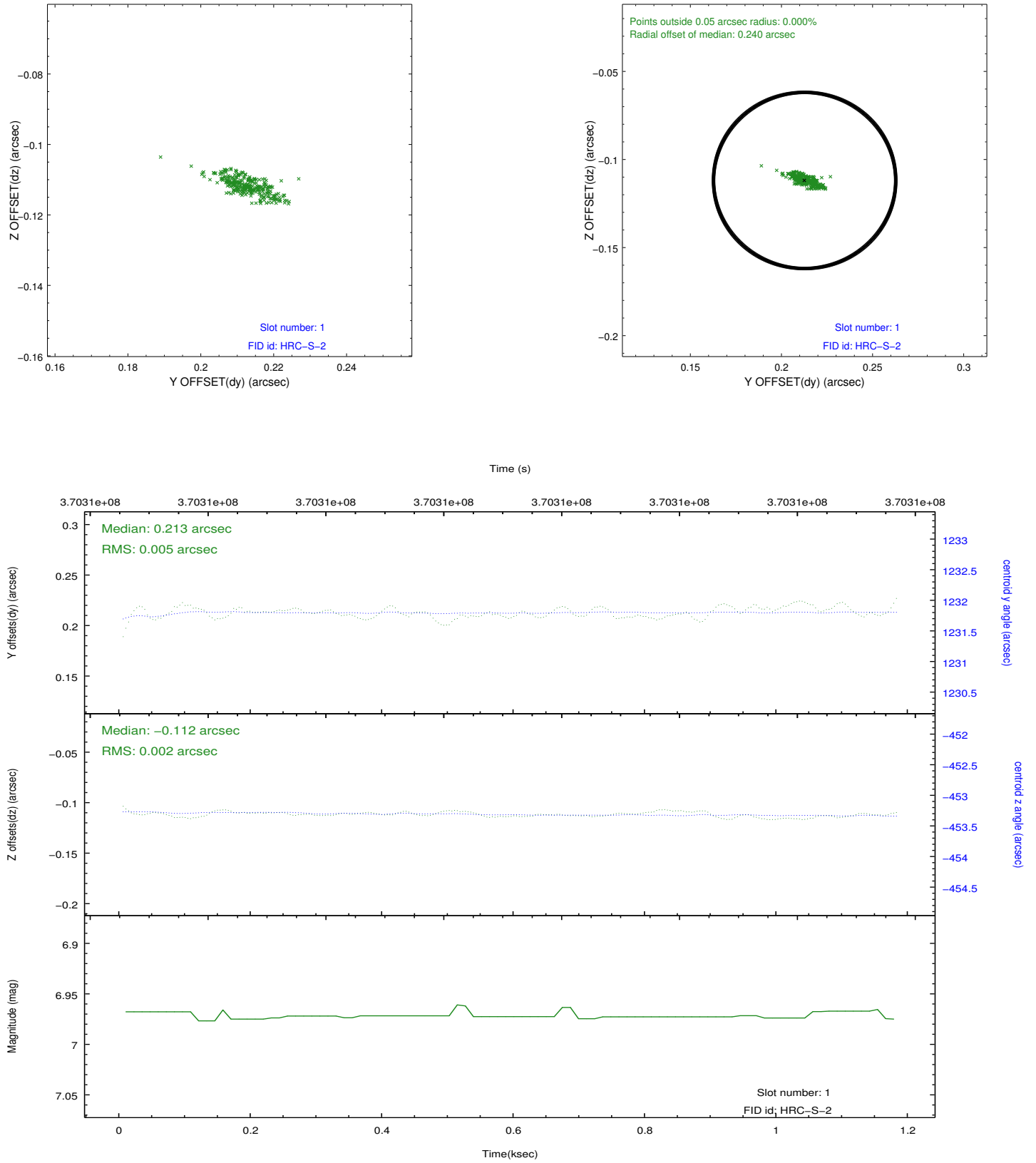


## 2.5 FID Slots

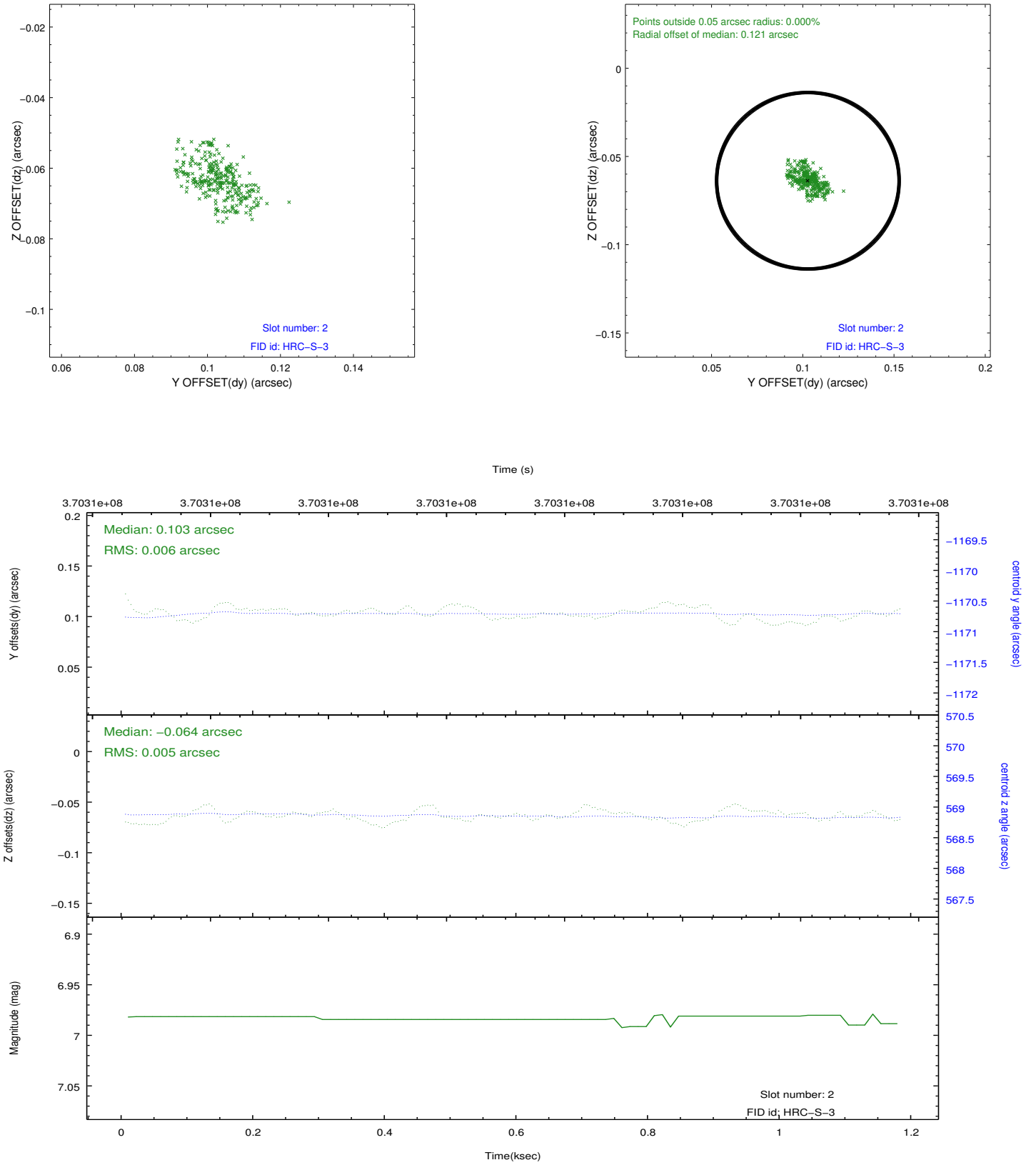
### 2.5.1 Slot 0



## 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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1779813091755

### A.2 Comments