

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10615 - L2 Version 3  
Chandra X-Ray Center

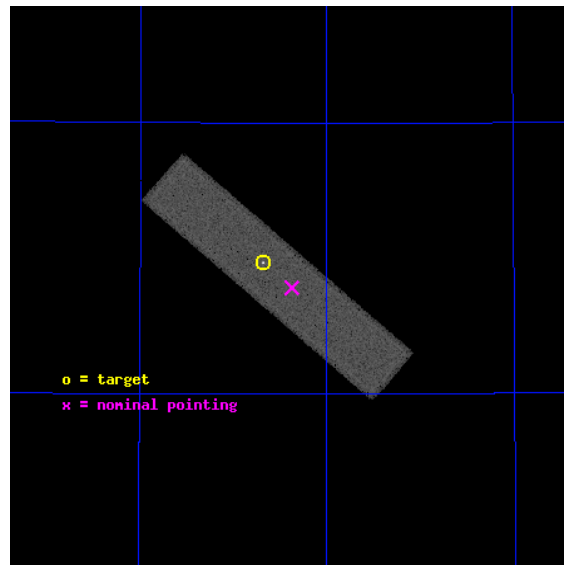
L2 Processing Date : Aug 13 2012

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# 1 Front

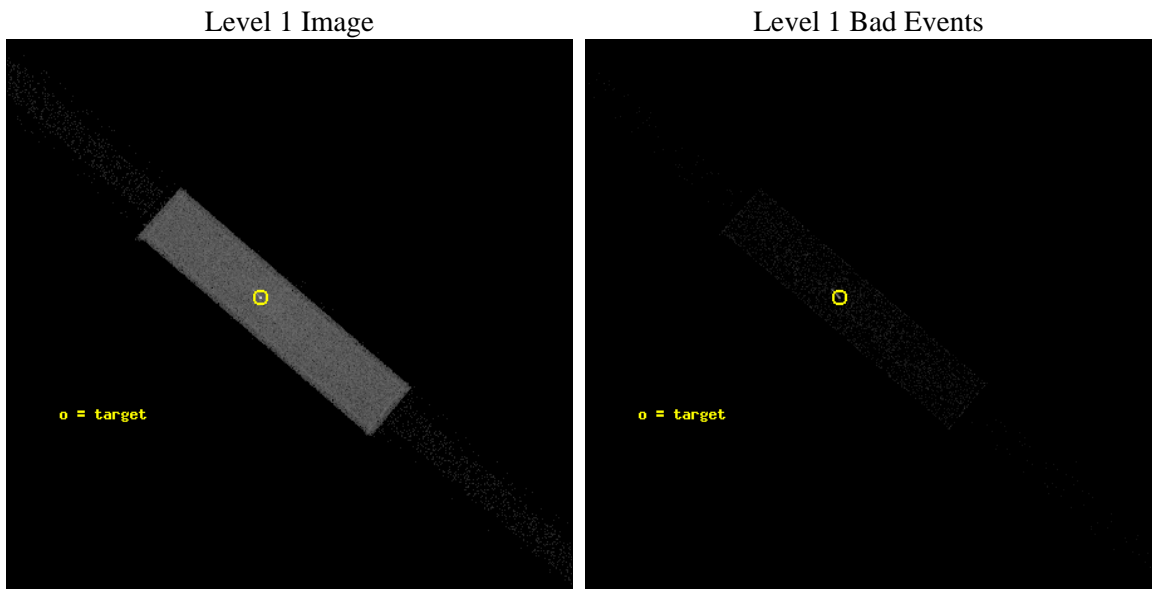
seq_num	290851	Sequence number
obs_id	10615	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.09279153553	Nominal RA [deg]
dec_nom	45.696067202899	Nominal Dec [deg]
roll_nom	220.48018959067	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1182.0813093185	[s]
livetime	1170.5988450311	Ontime multiplied by DTCOR
l2events	82668	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	1182.0813093185	[s]
caldbver	4.5.1.1	&#160	l1events	126639	Number of level 1 events
date	2012-08-13T16:35:20	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

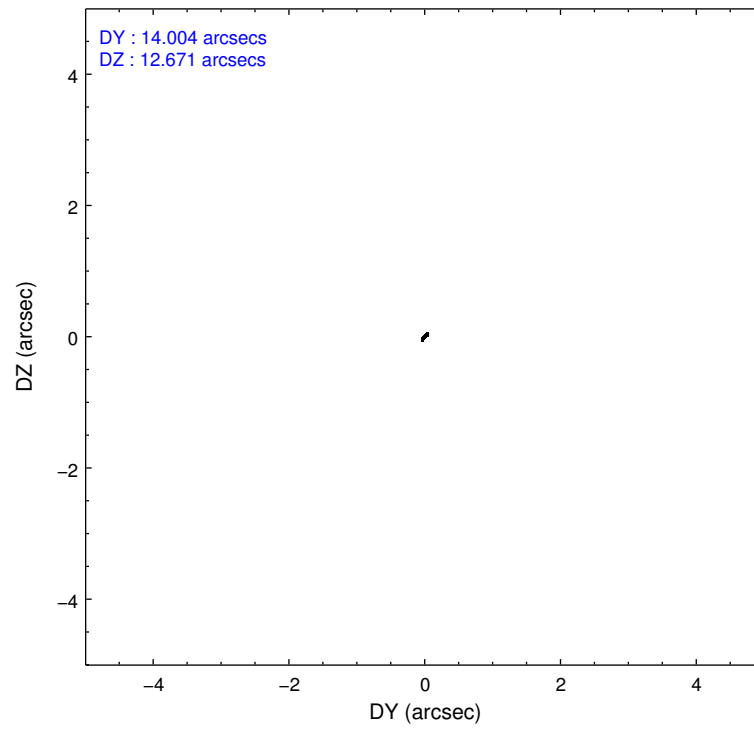
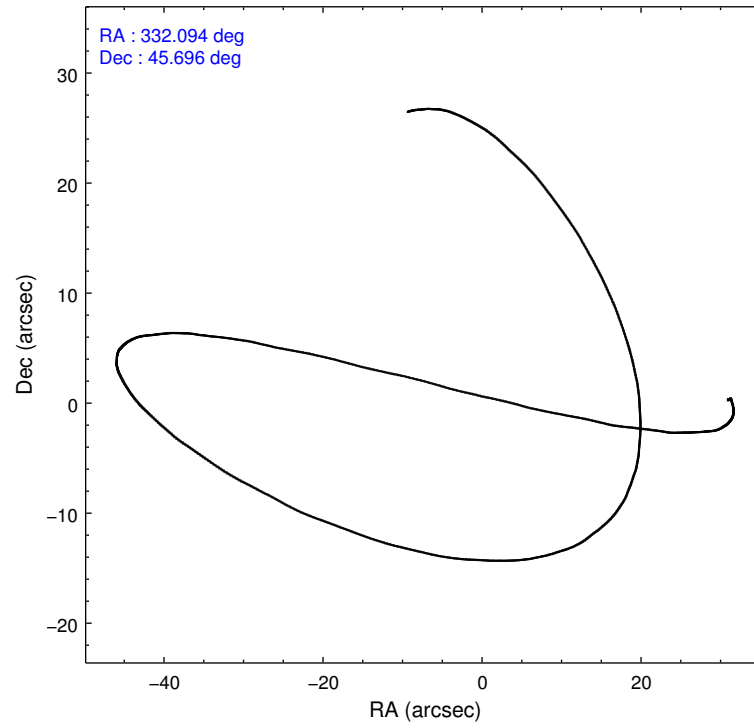
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1100	124505	1034
rejected events	1100	25956	1034
rejected %	100%	20%	100%

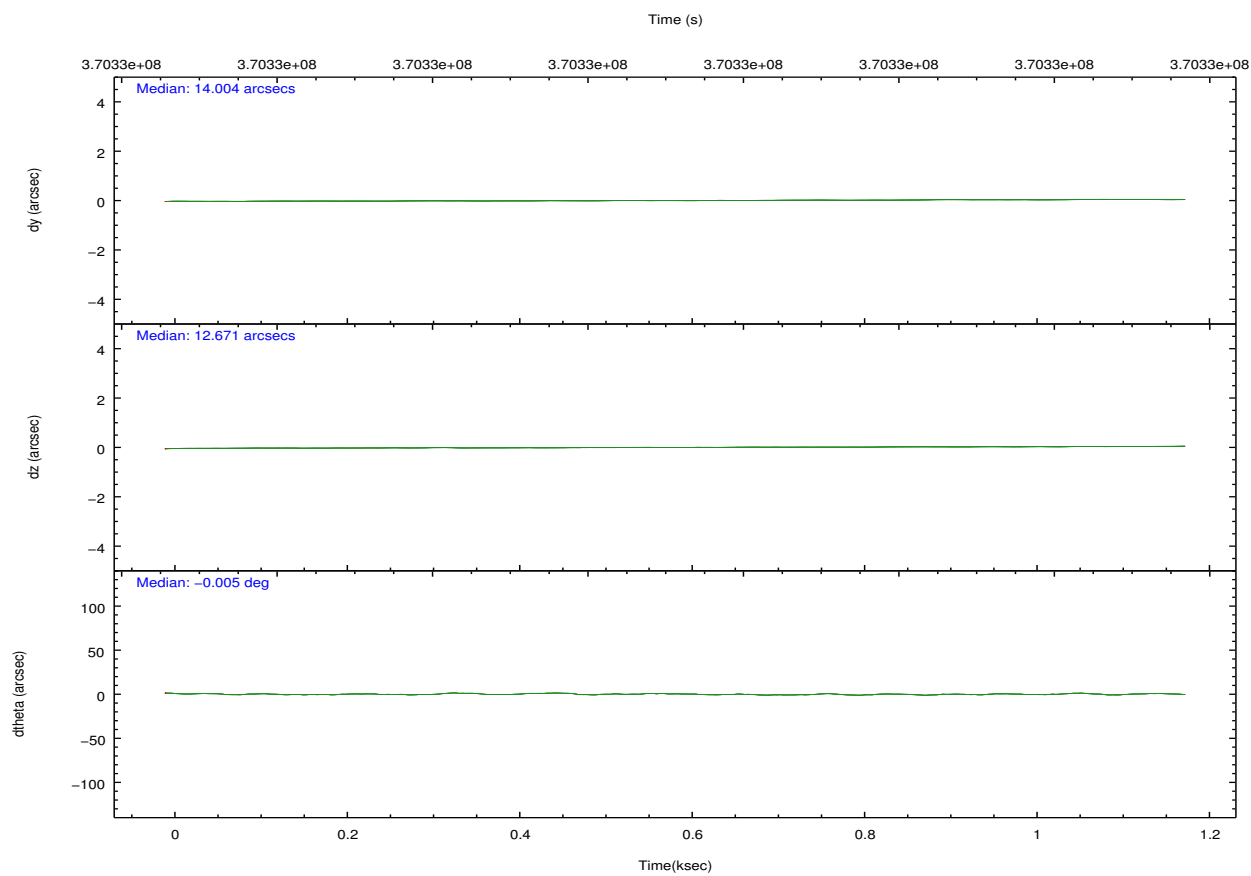
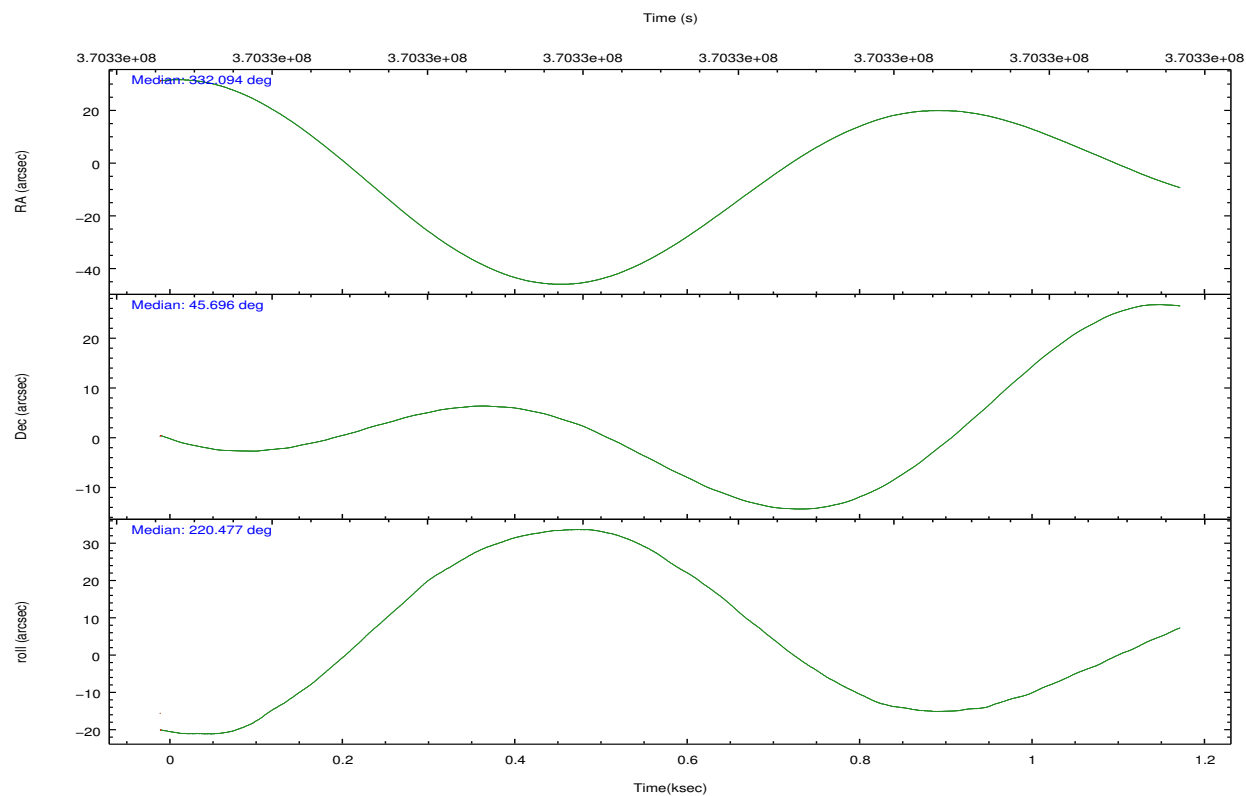
## 2.2 Compared Parameters

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	332.103799	332.0927915355336
[deg] Pointing Dec	45.723570	45.6960672028988
[deg] Pointing Roll	220.404982	220.4801895906693
[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)	370326893.184000	370326517.15254
Observation start date	2009-09-26T04:33:47	2009-09-26T04:28:37
[s] Observation end time (MET)	370327893.184000	370328026.97762
Observation end date	2009-09-26T04:50:27	2009-09-26T04:53:46

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

## 2.3 Aspect





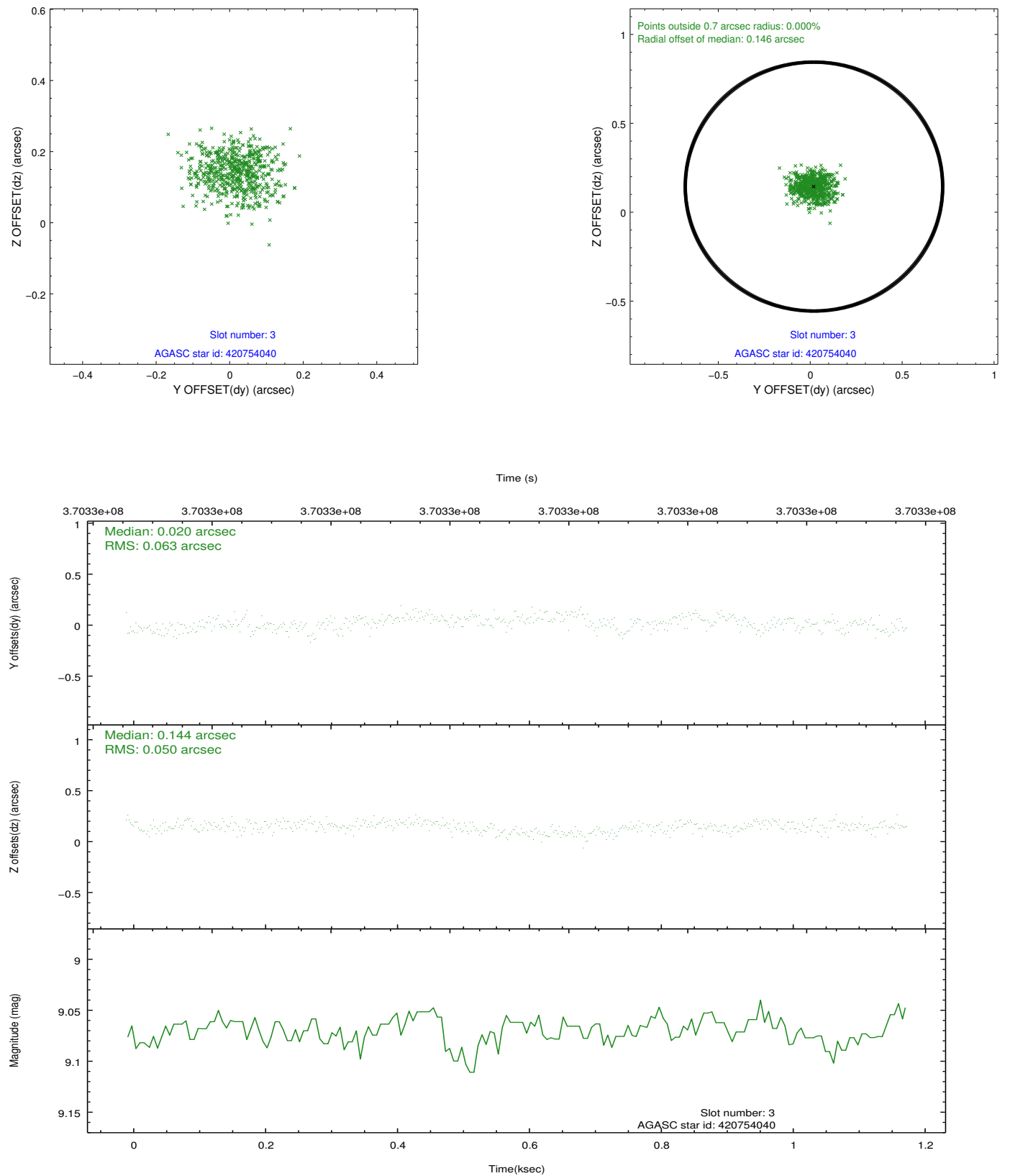
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	289	0.071	-0.134	0.008	0.013	0.000000	0.000000	-1168.38	-461.45
1	FID	HRC-S-2	6.97	289	0.211	-0.110	0.005	0.009	0.000000	0.000000	1227.38	-455.61
2	FID	HRC-S-3	6.99	289	0.108	-0.059	0.008	0.013	0.000000	0.000000	-1166.84	566.57
3	GUIDE	420754040	9.07	575	0.020	0.144	0.086	0.136	331.917939	44.882543	2323.93	1997.53
4	GUIDE	472523760	8.23	578	0.079	-0.066	0.076	0.134	331.645363	45.403260	1633.68	126.78
5	GUIDE	472533912	9.14	578	-0.010	0.159	0.135	0.230	331.791136	46.368695	-910.28	-2273.87
6	GUIDE	472651904	6.10	578	-0.101	-0.241	0.092	0.142	332.170077	45.742257	-170.23	50.67
7	GUIDE	472655152	9.41	577	0.018	0.021	0.124	0.194	332.504239	45.862991	-1089.88	265.64

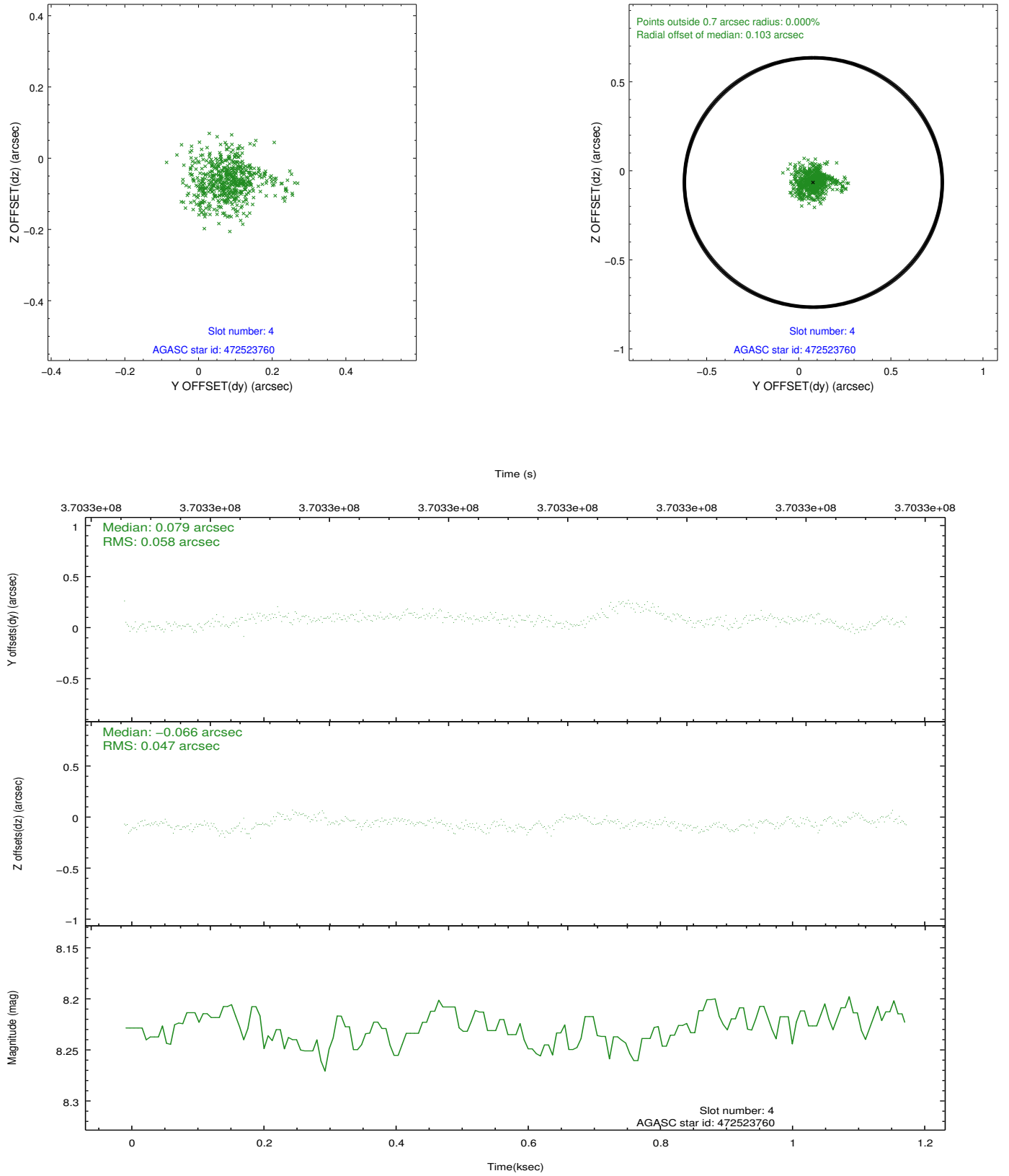


## 2.4 Star Slots

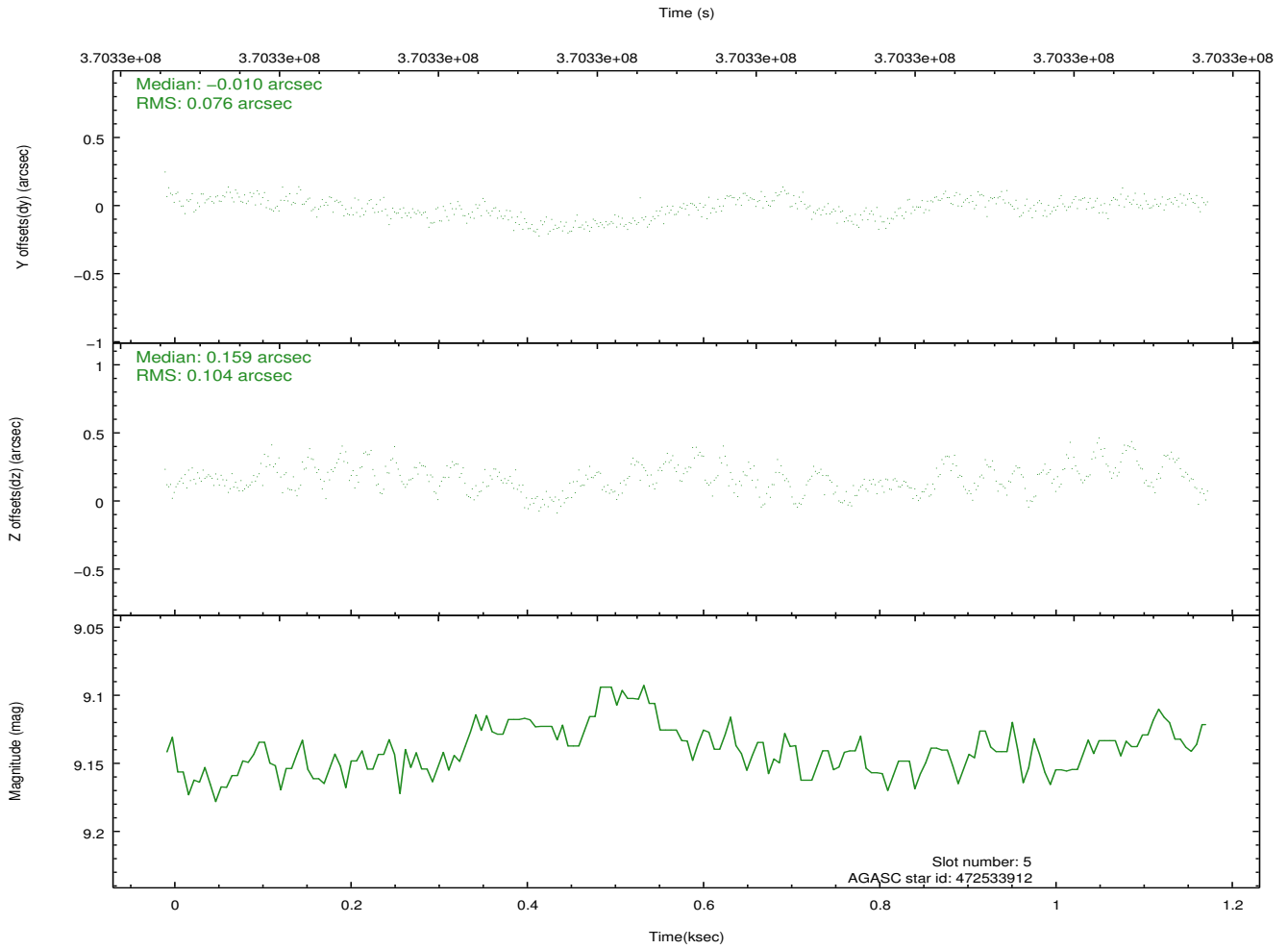
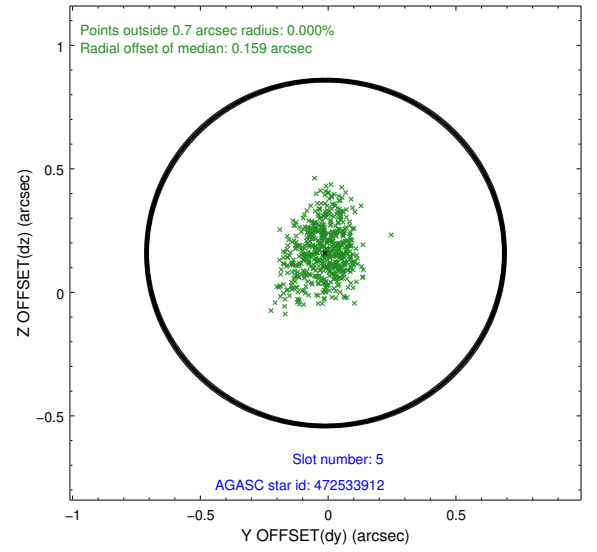
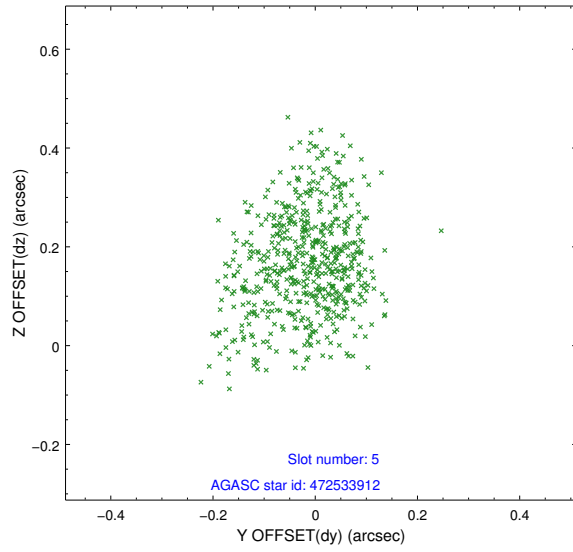
### 2.4.1 Slot 3



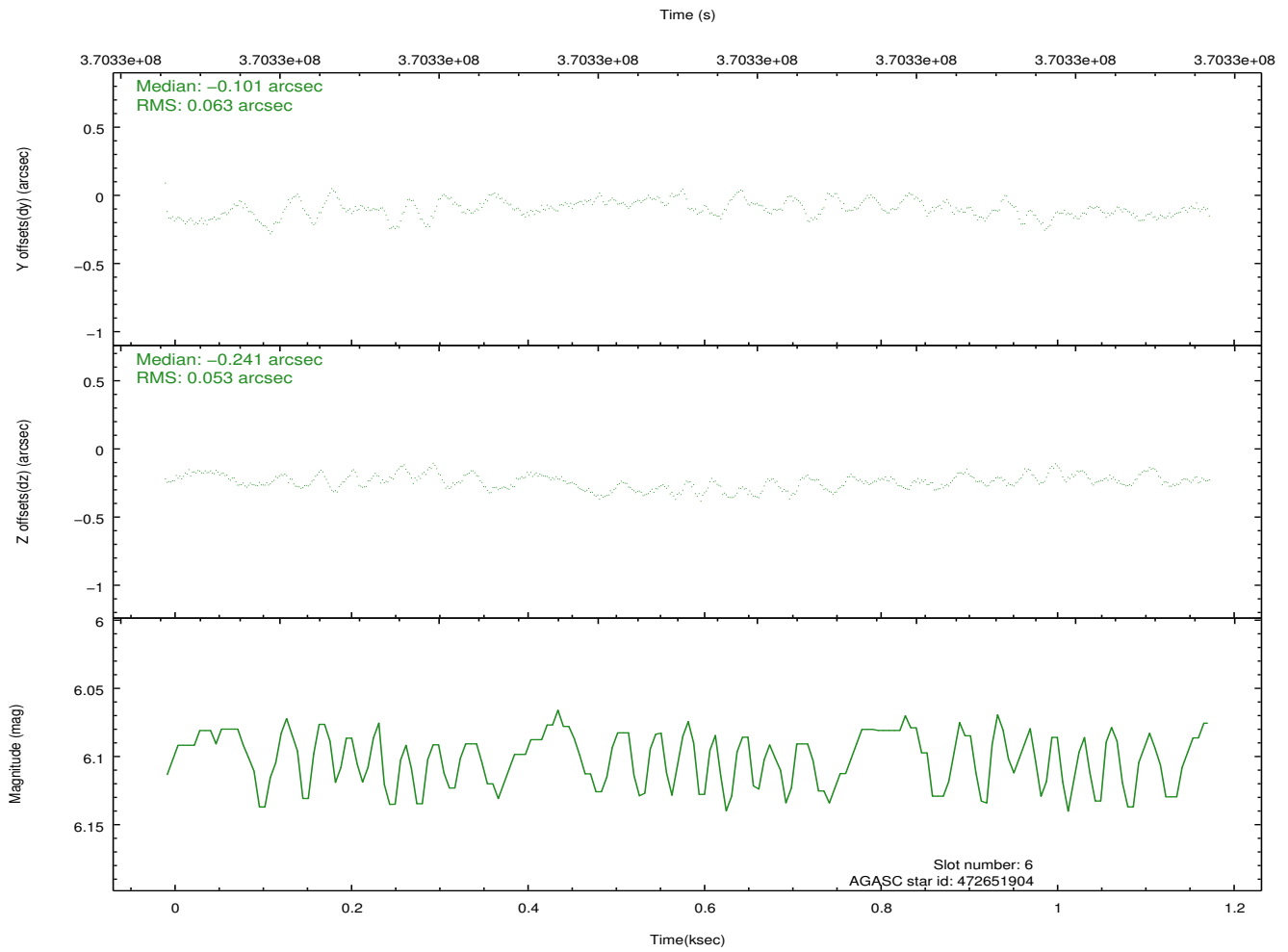
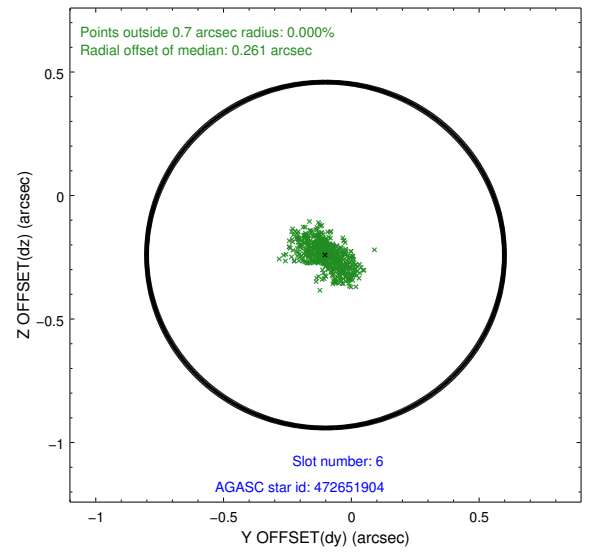
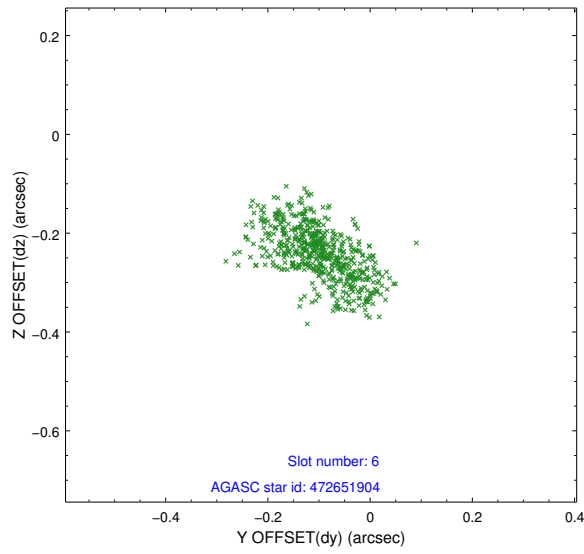
## 2.4.2 Slot 4



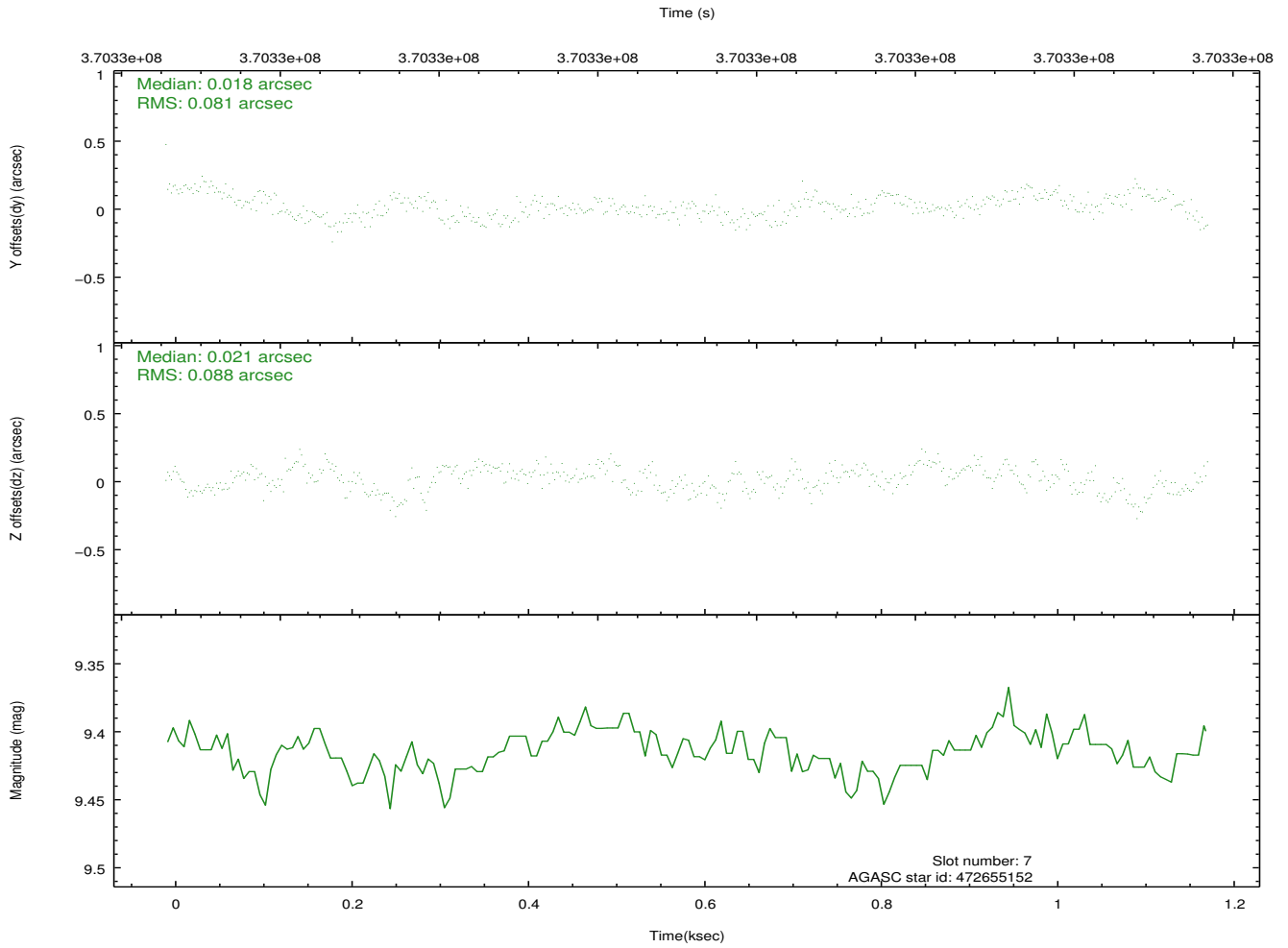
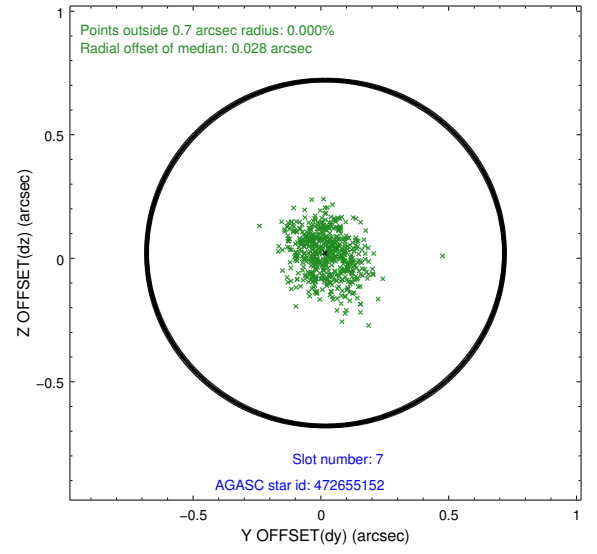
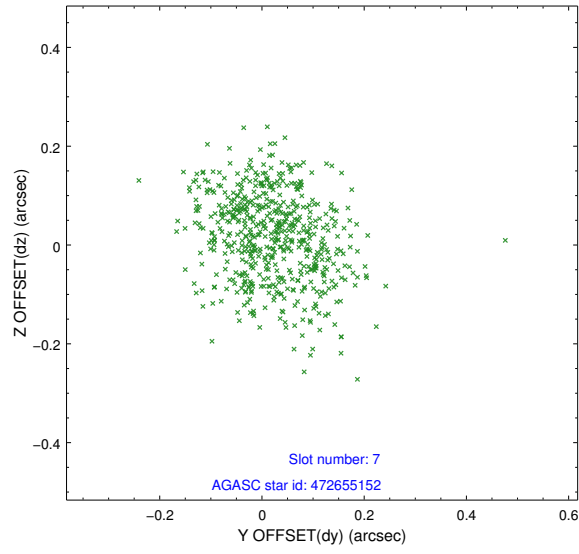
### 2.4.3 Slot 5



## 2.4.4 Slot 6

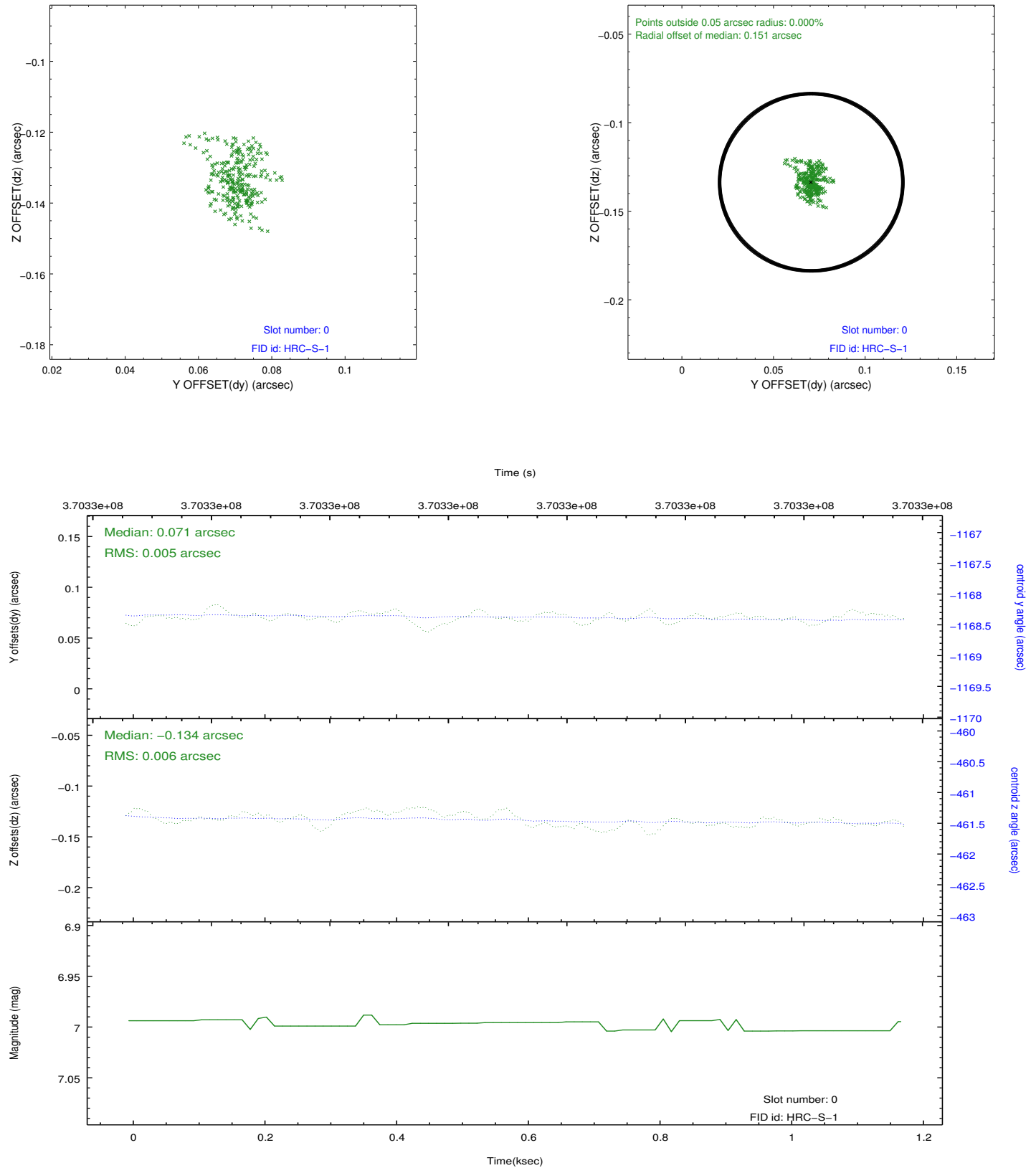


## 2.4.5 Slot 7

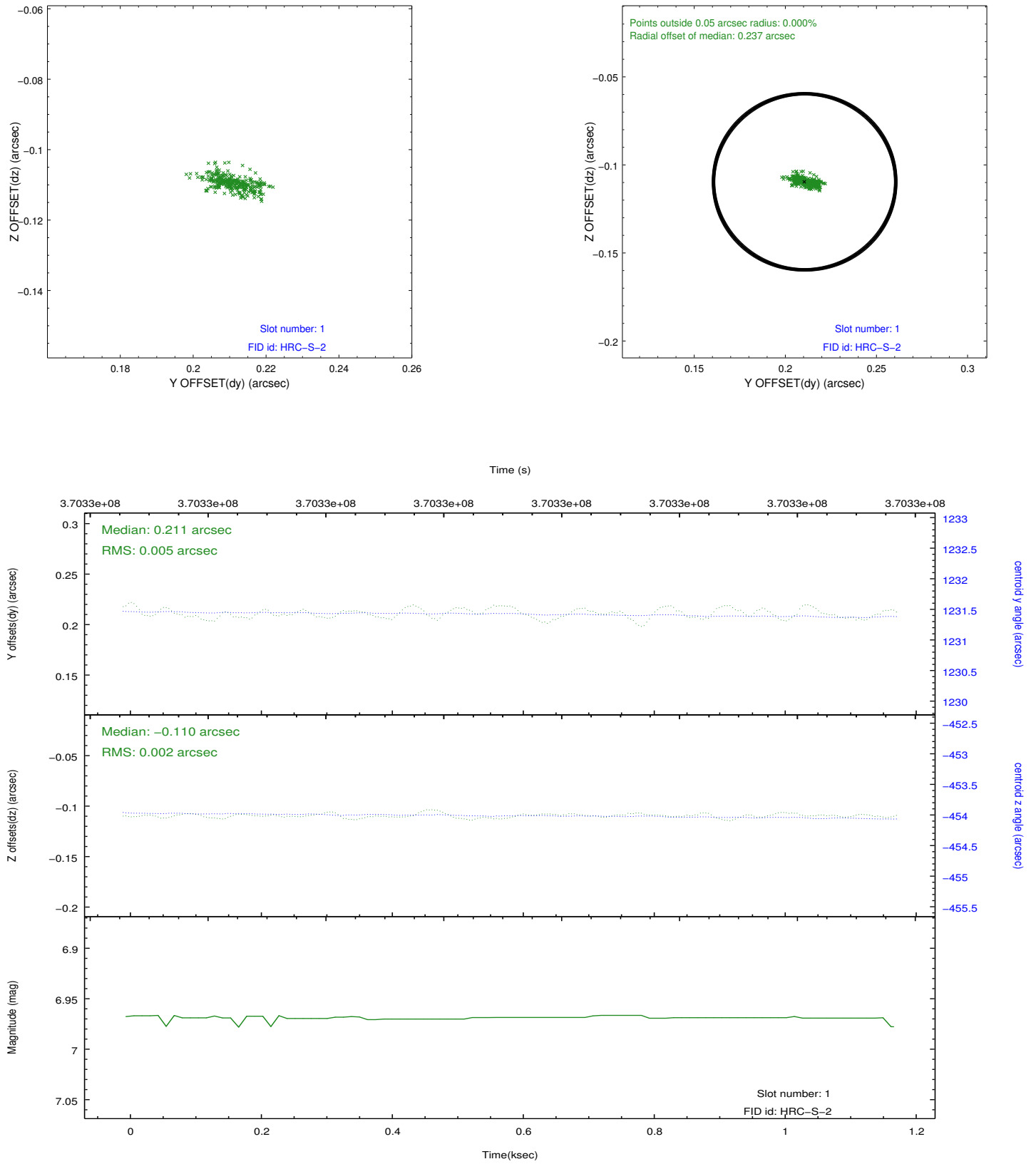


## 2.5 FID Slots

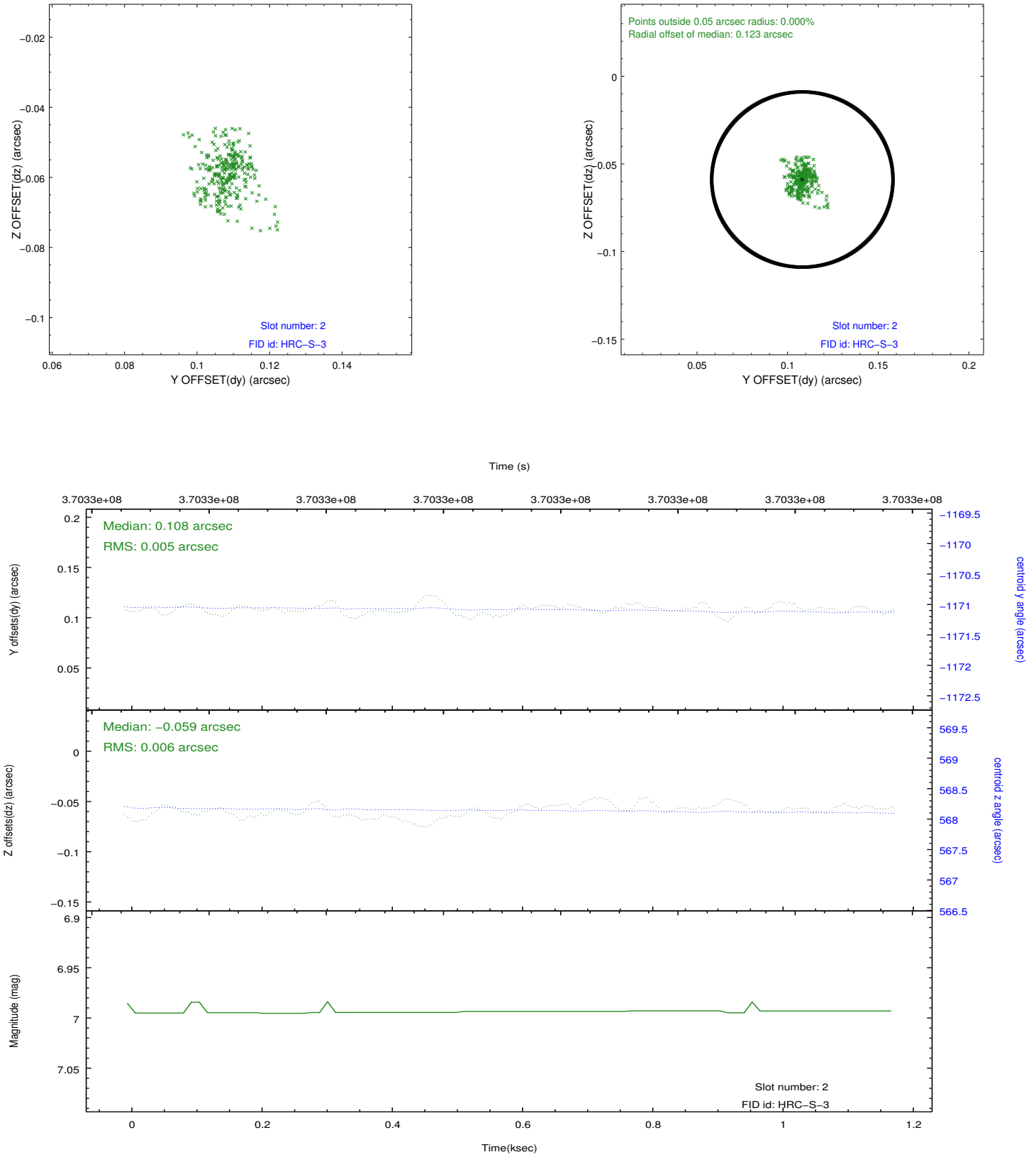
### 2.5.1 Slot 0



## 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	1.1820813093781

### A.2 Comments