

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5077 - L2 Version 4  
Chandra X-Ray Center

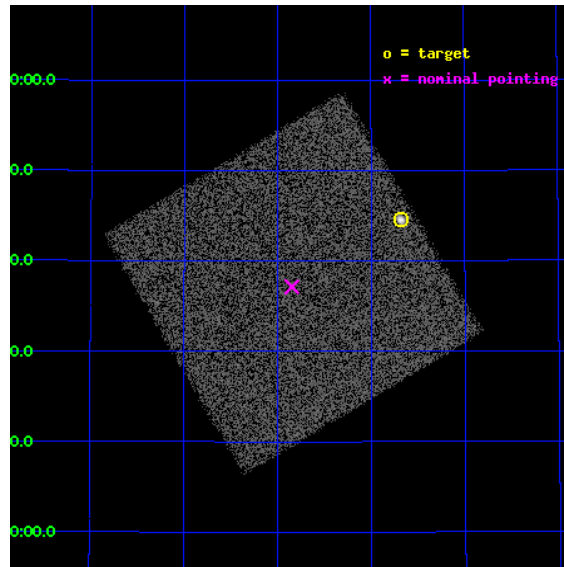
L2 Processing Date : Dec 11 2012

## 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

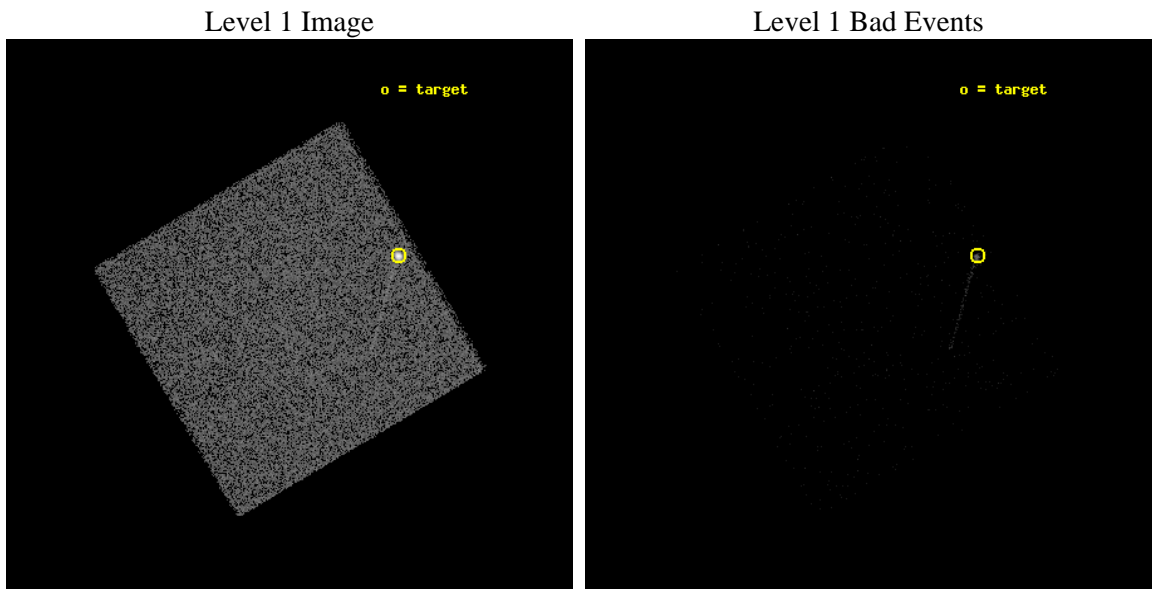
seq_num	290350	Sequence number
obs_id	5077	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.46208762763	Nominal RA [deg]
dec_nom	45.619435610386	Nominal Dec [deg]
roll_nom	284.46655695754	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1089.8312989771	[s]
livetime	1077.4375789346	Ontime multiplied by DTCOR
l2events	52171	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1089.8312989771	[s]
caldbver	4.5.4	&#160	l1events	94634	Number of level 1 events
date	2012-12-11T23:51:36	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

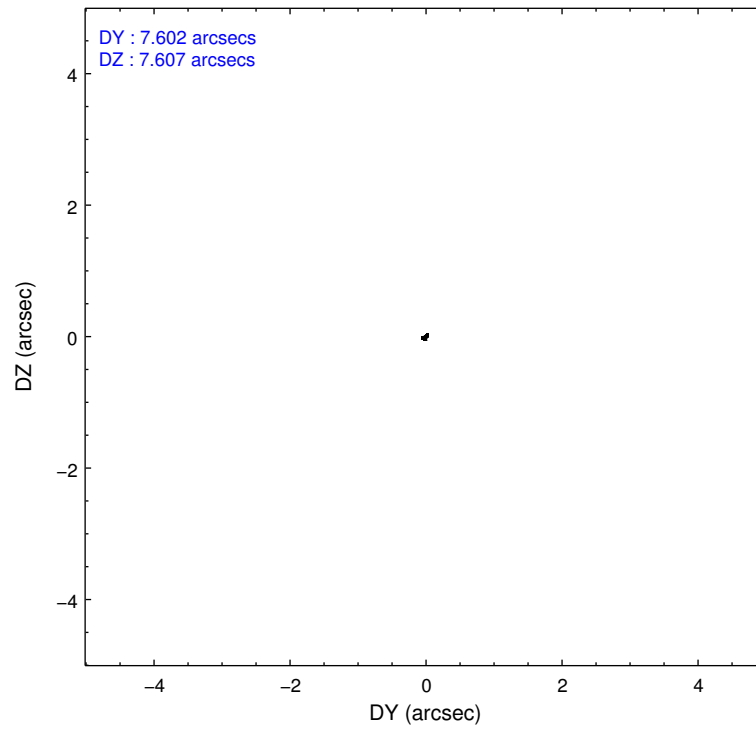
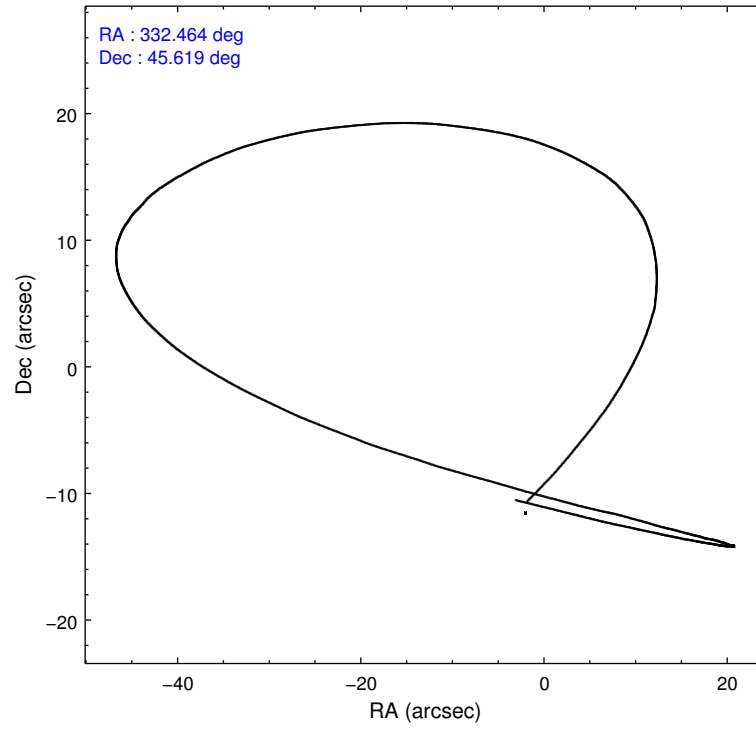
	<b>segment 0</b>
level 1 events	94634
rejected events	18718
rejected %	19%

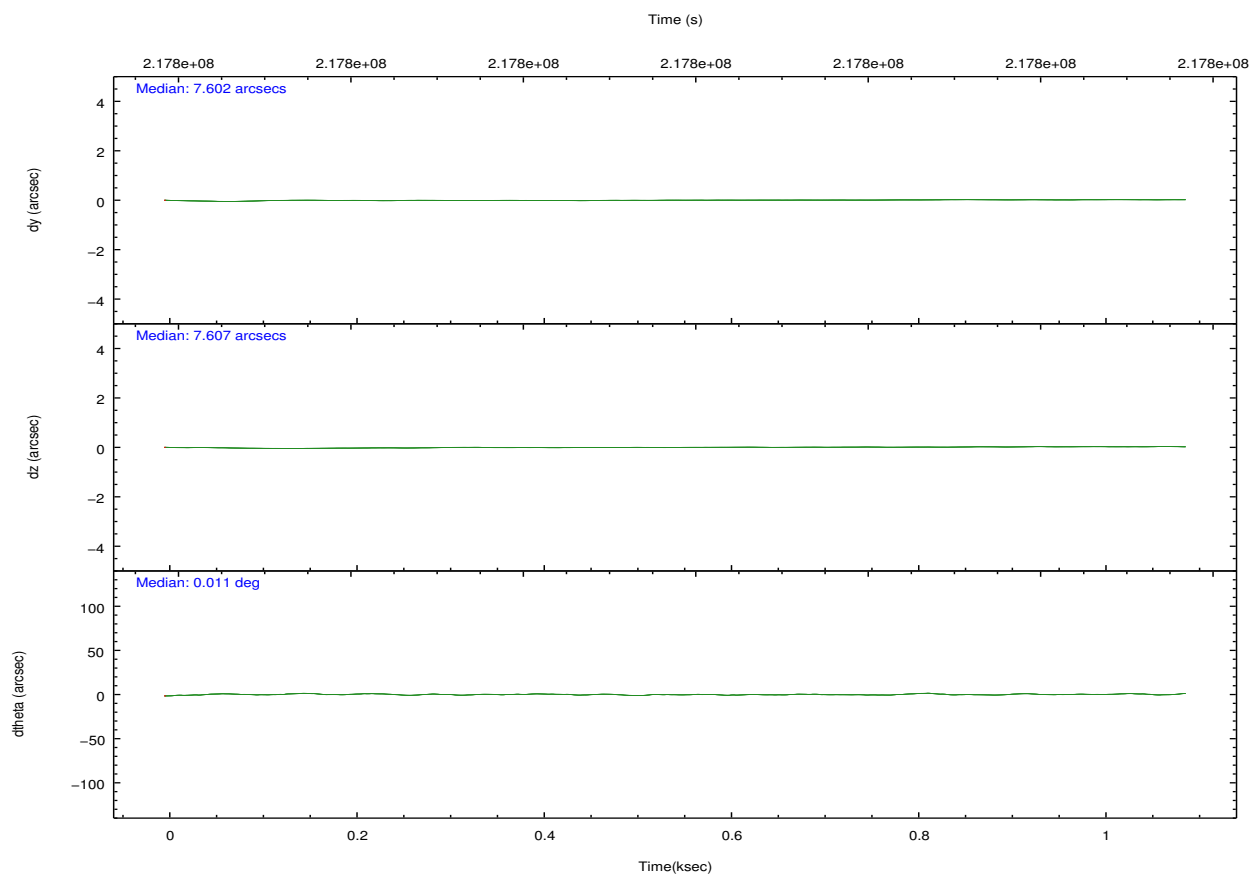
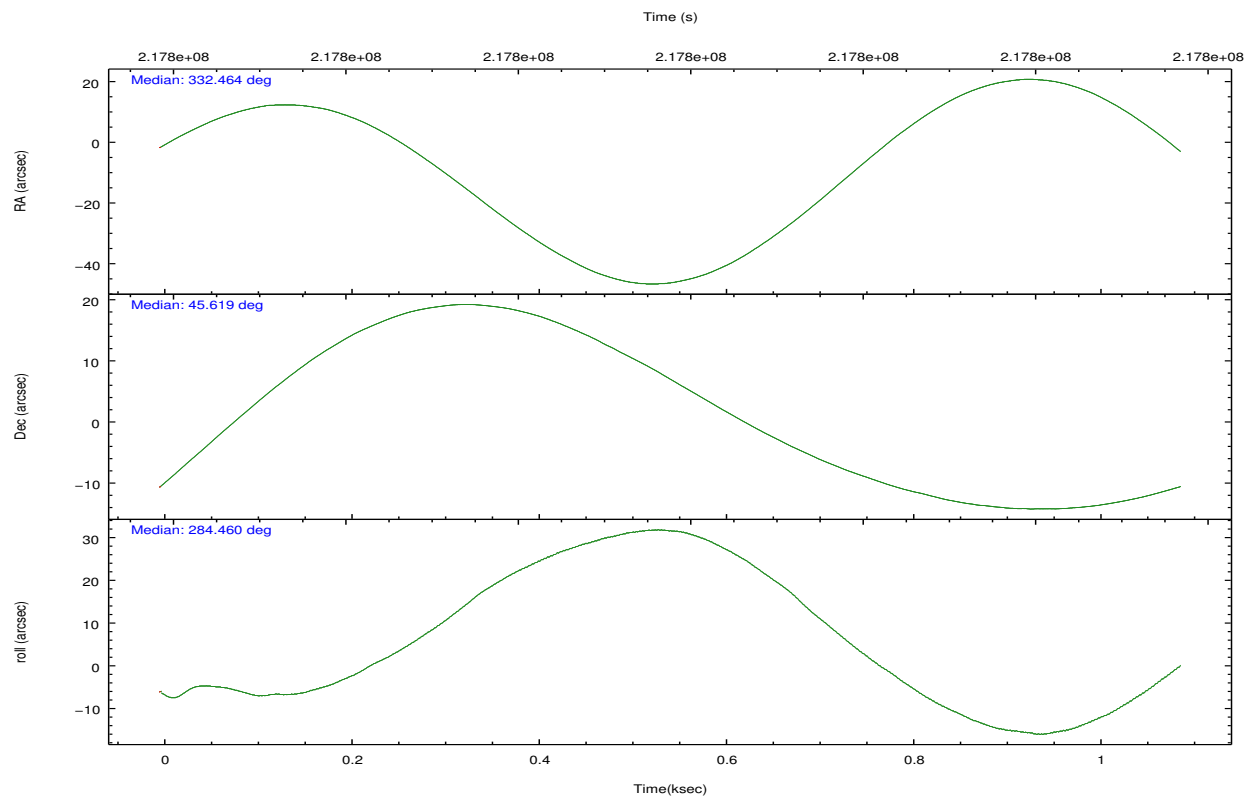
## 2.2 Compared Parameters

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	332.432554	332.4620876276322
[deg] Pointing Dec	45.638040	45.61943561038578
[deg] Pointing Roll	284.583210	284.4665569575431
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	217798617.184000	217798241.43378
Observation start date	2004-11-25T19:35:53	2004-11-25T19:30:41
[s] Observation end time (MET)	217799517.184000	217799650.80885
Observation end date	2004-11-25T19:50:53	2004-11-25T19:54:10

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

## 2.3 Aspect





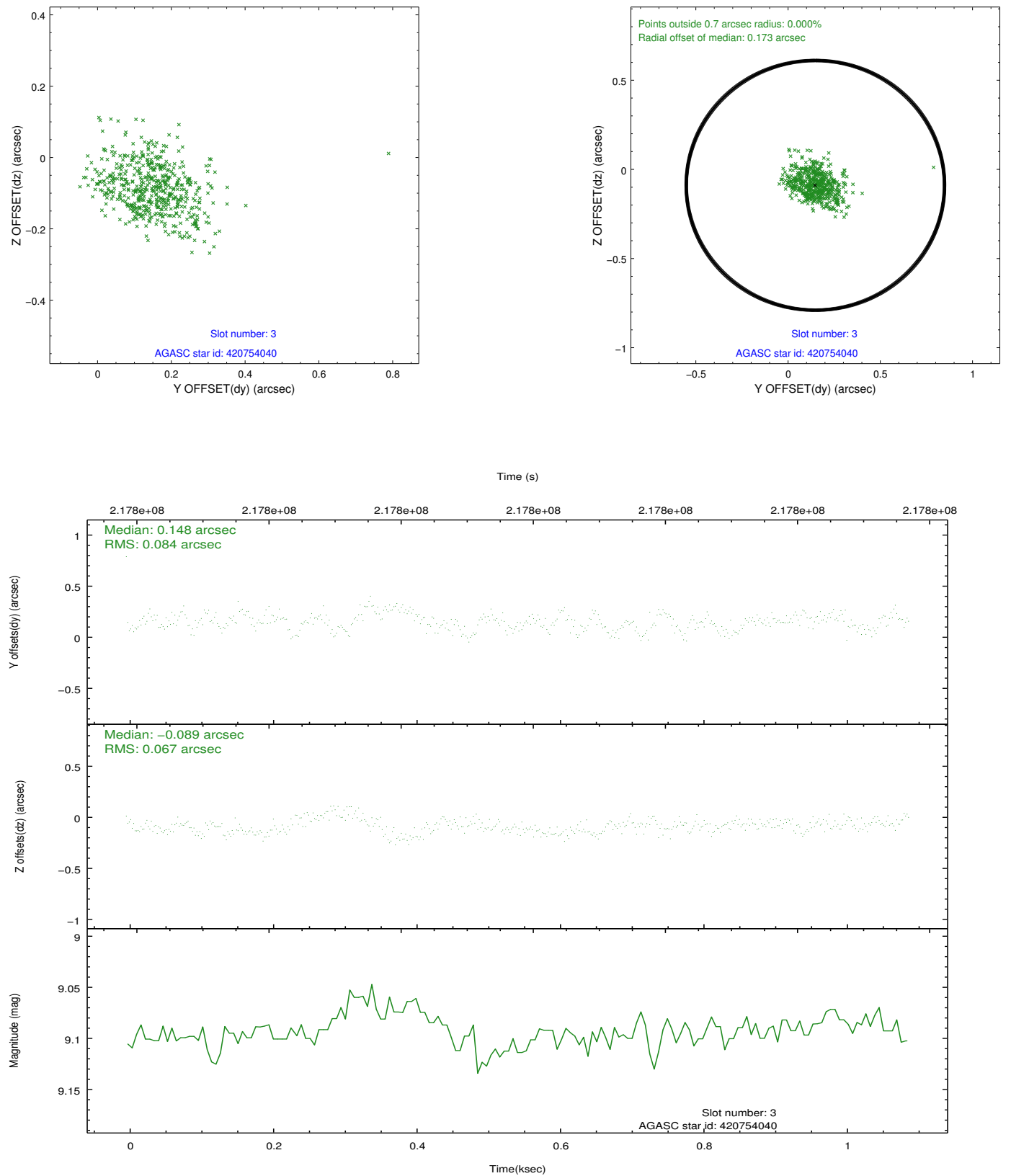
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	267	0.042	0.005	0.008	0.016	0.000000	0.000000	-763.22	-1295.48
1	FID	HRC-I-3	7.10	267	-0.067	-0.052	0.008	0.016	0.000000	0.000000	-1194.57	1004.19
2	FID	HRC-I-4	7.04	267	0.139	-0.041	0.006	0.011	0.000000	0.000000	1275.30	1010.31
3	GUIDE	420754040	9.09	532	0.148	-0.089	0.111	0.180	331.917939	44.882543	2298.35	-1957.92
4	GUIDE	472523760	8.24	533	-0.117	-0.070	0.079	0.131	331.645363	45.403260	312.40	-2144.10
5	GUIDE	472654568	9.45	533	0.113	0.050	0.097	0.152	332.194449	45.063576	1849.38	-1114.67
6	GUIDE	472655152	9.43	533	-0.064	-0.026	0.116	0.196	332.504239	45.862991	-734.69	371.29
7	GUIDE	472659832	9.46	532	-0.084	0.126	0.098	0.165	332.780399	46.098139	-1387.31	1254.22

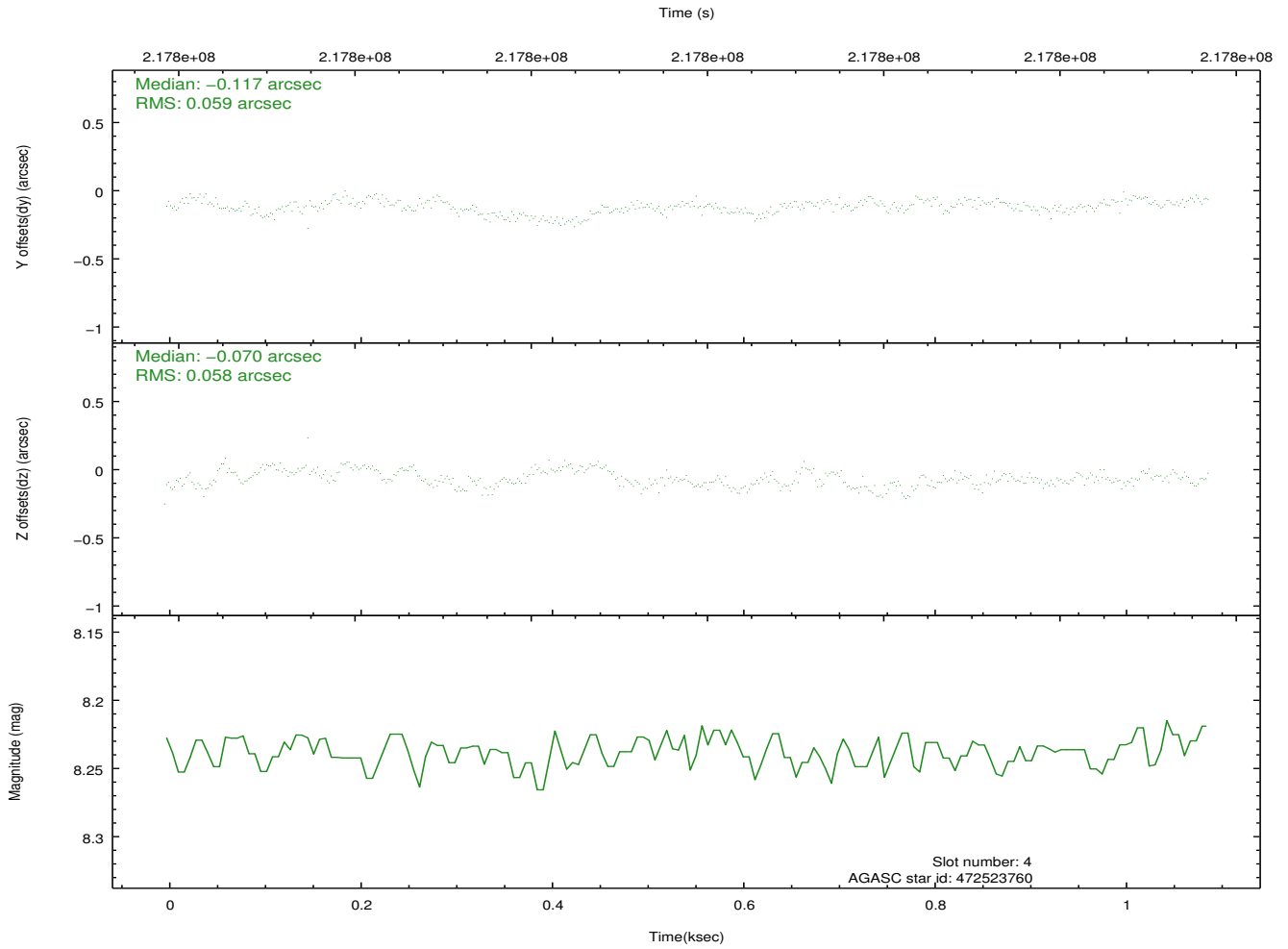
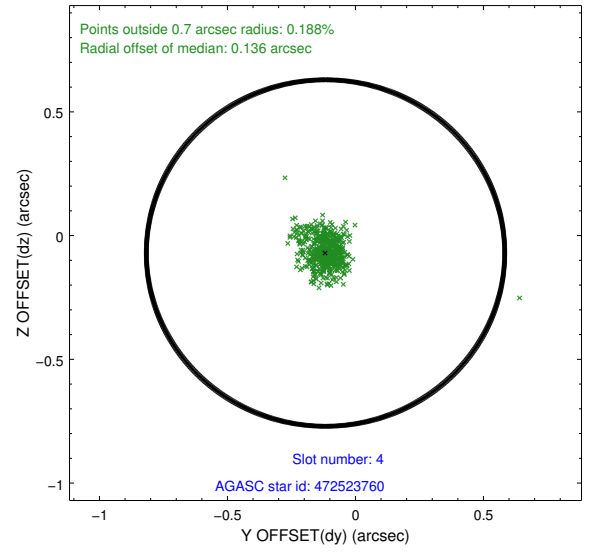
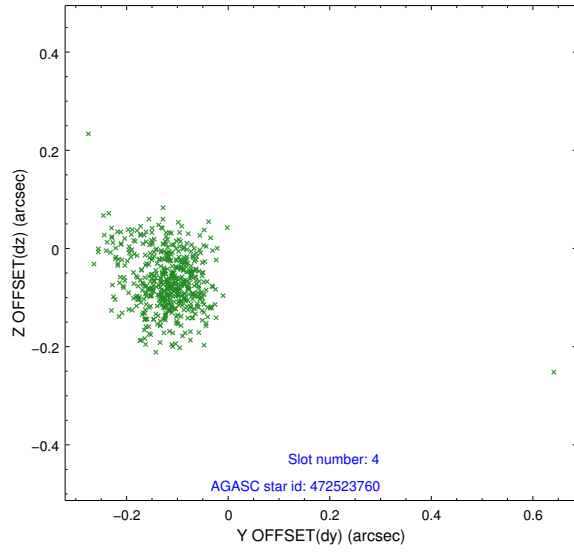


## 2.4 Star Slots

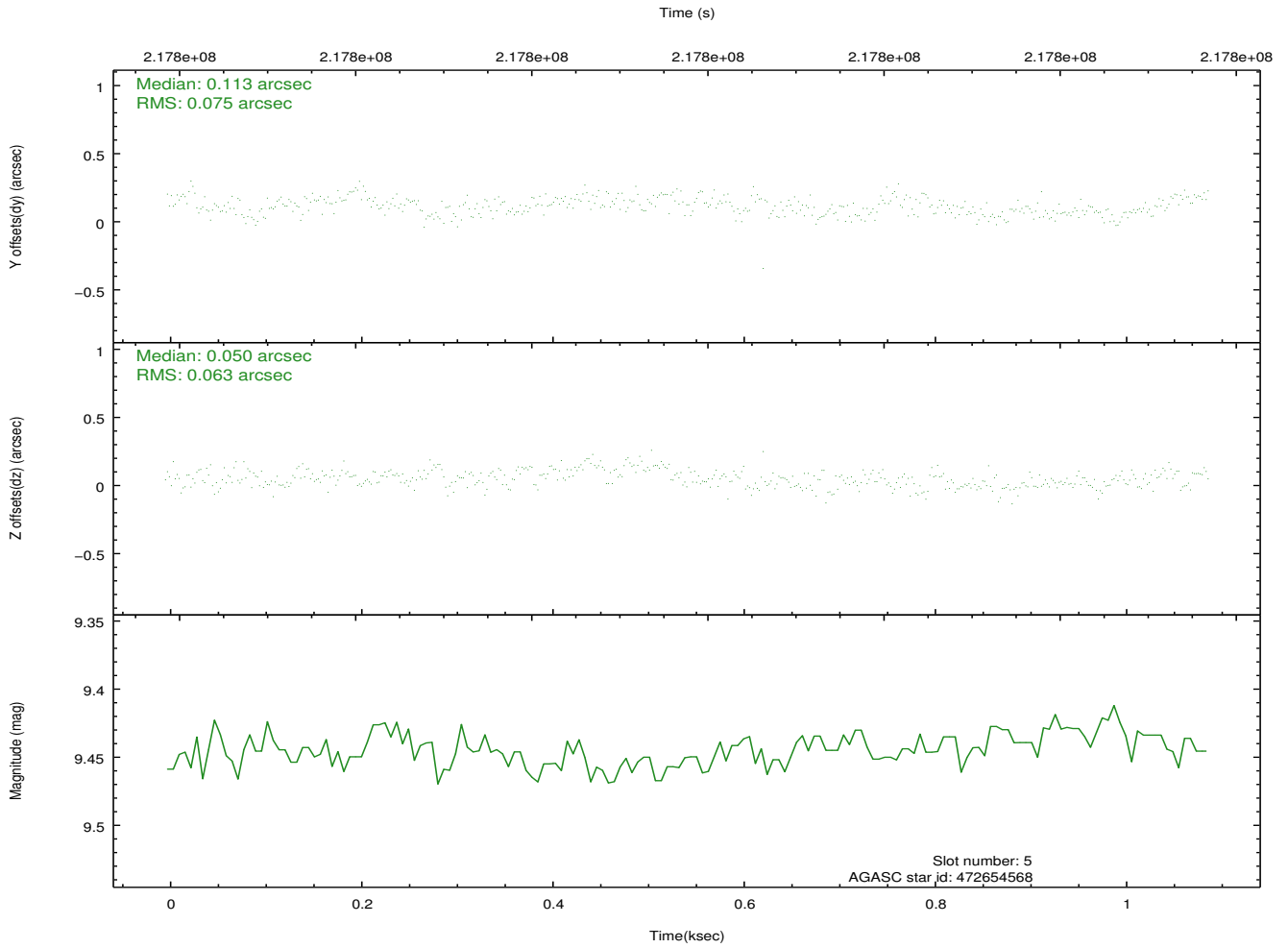
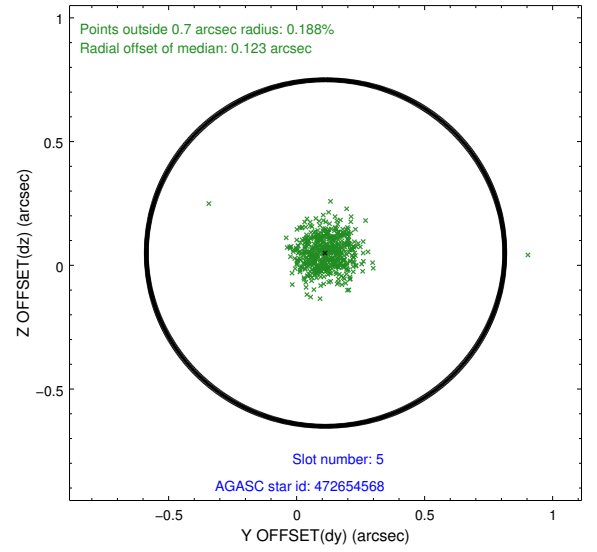
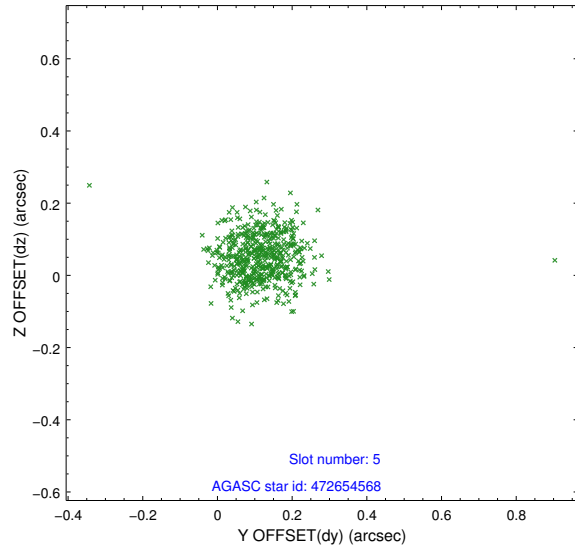
### 2.4.1 Slot 3



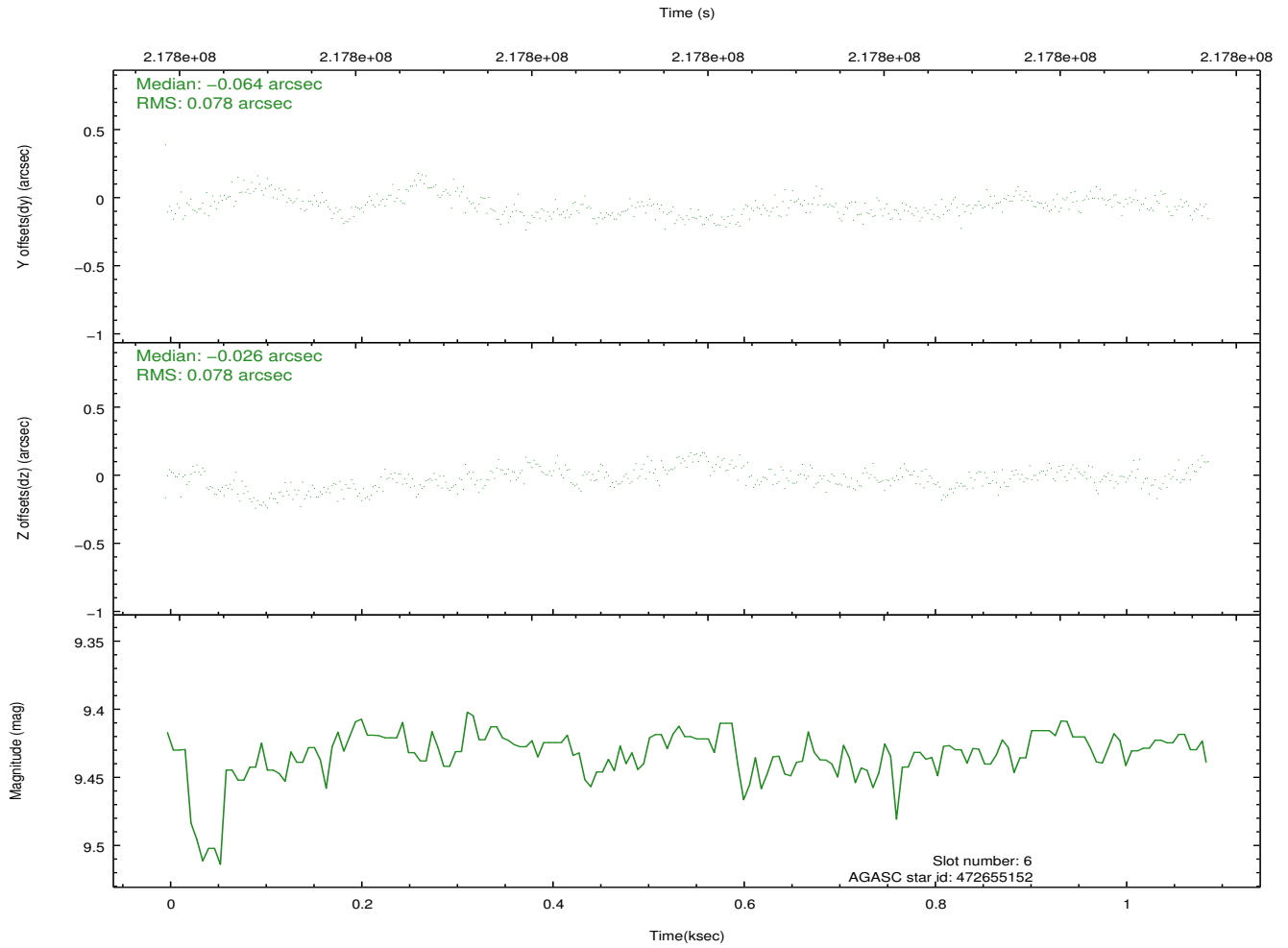
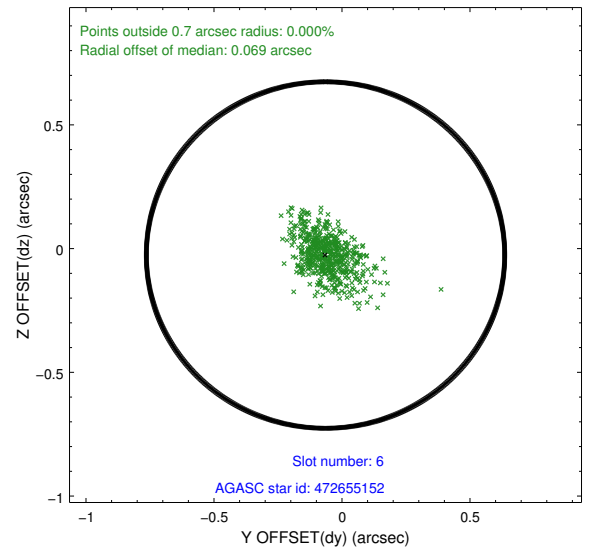
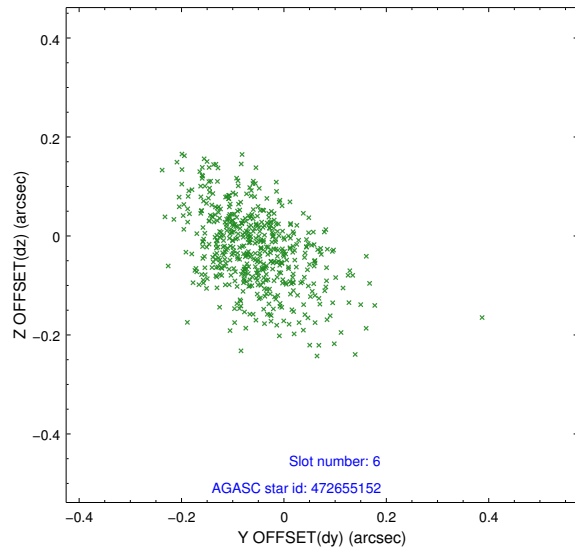
## 2.4.2 Slot 4



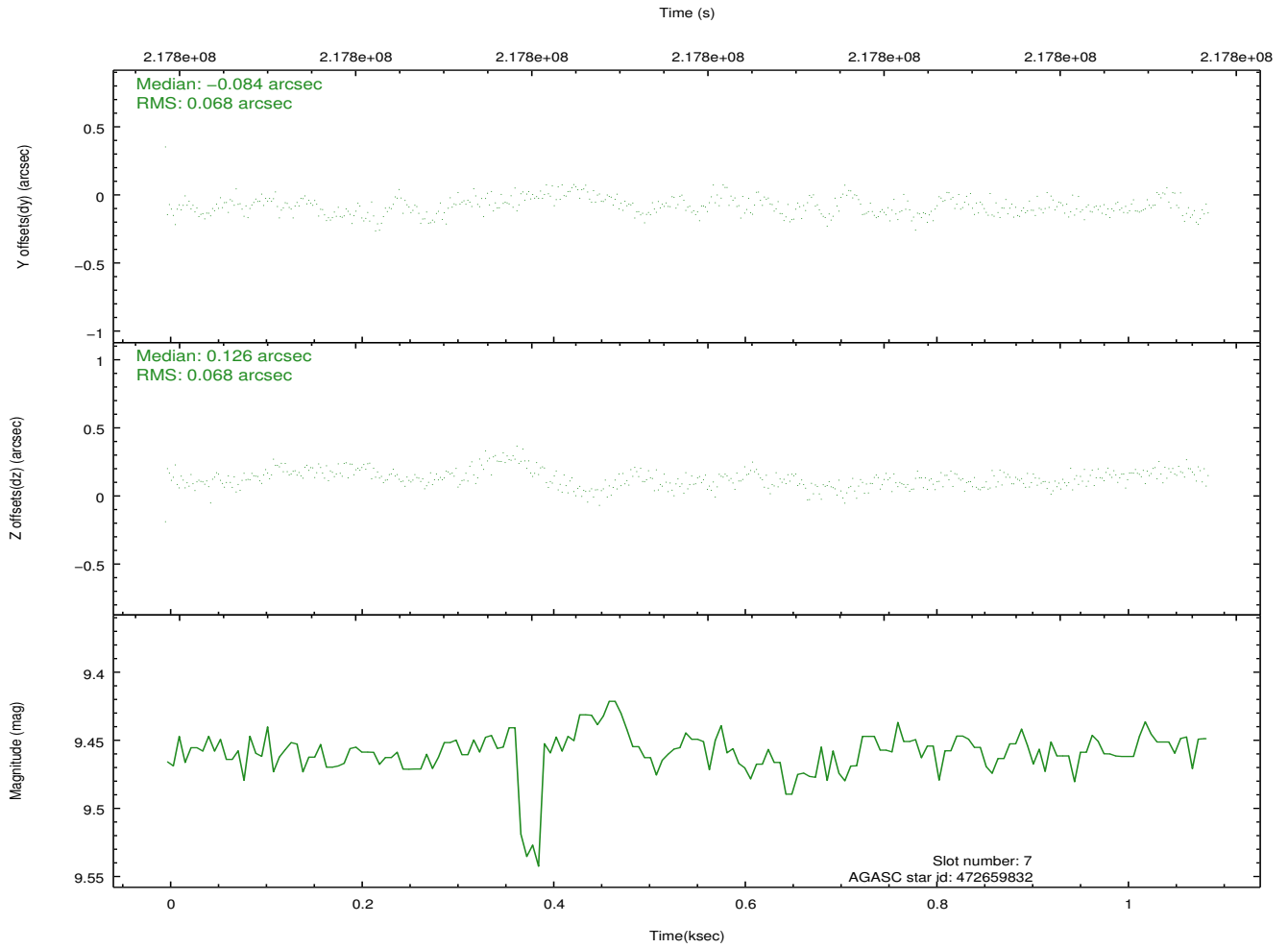
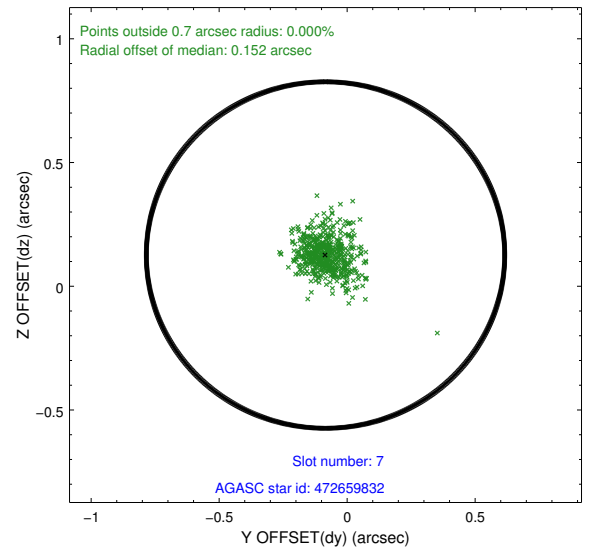
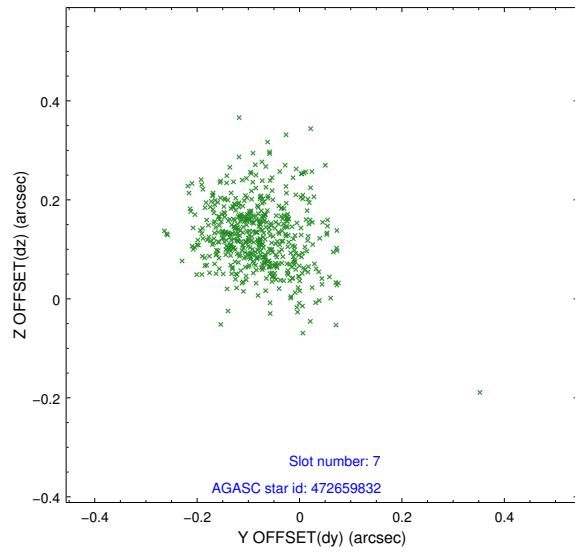
### 2.4.3 Slot 5



## 2.4.4 Slot 6

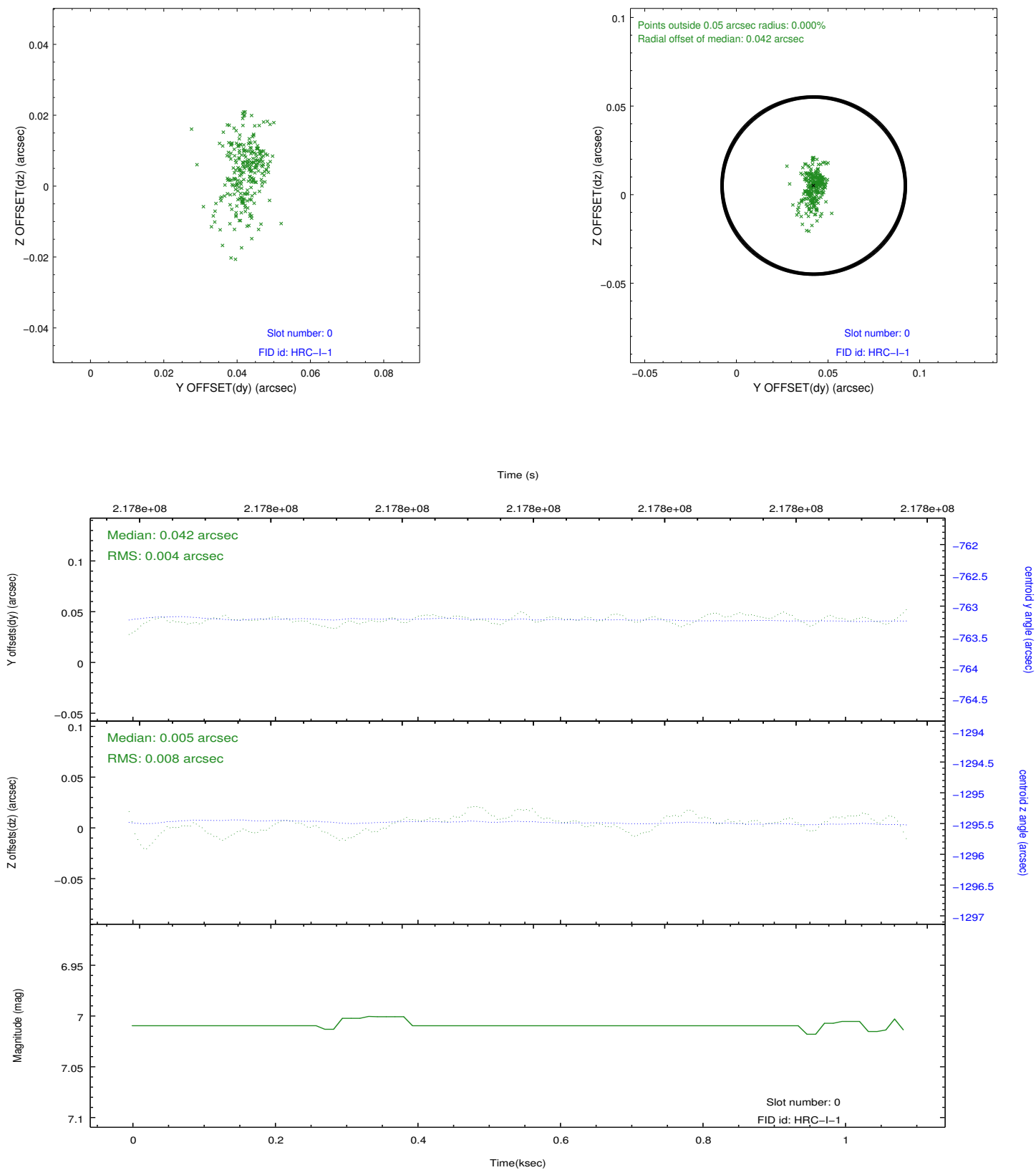


## 2.4.5 Slot 7

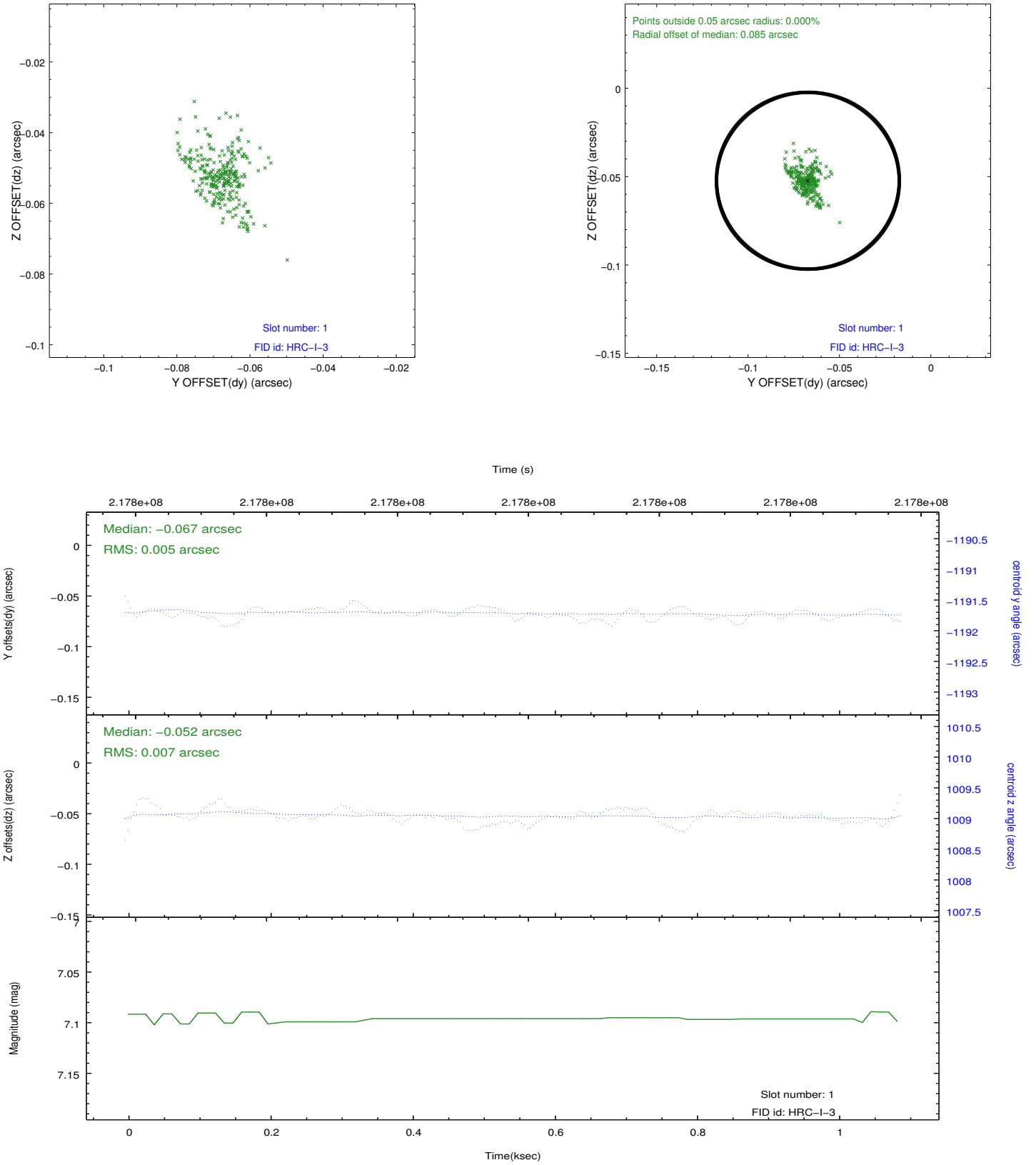


## 2.5 FID Slots

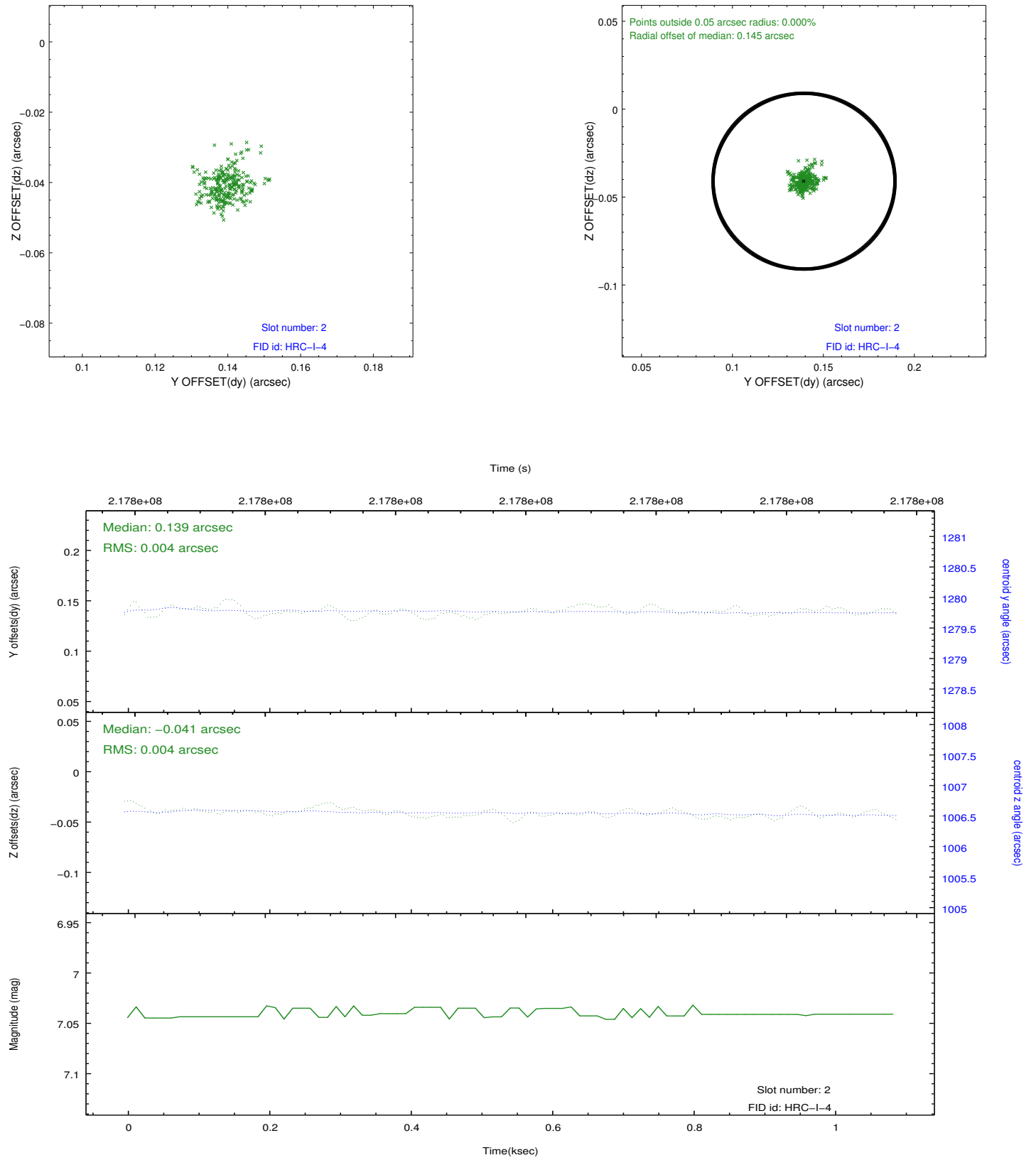
### 2.5.1 Slot 0



## 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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.089831

### A.2 Comments