

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2773 - L2 Version 4  
Chandra X-Ray Center

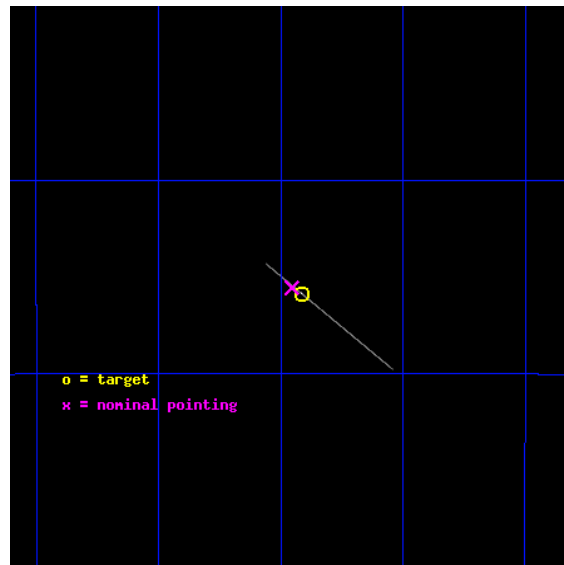
L2 Processing Date : Sep 28 2012

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# 1 Front

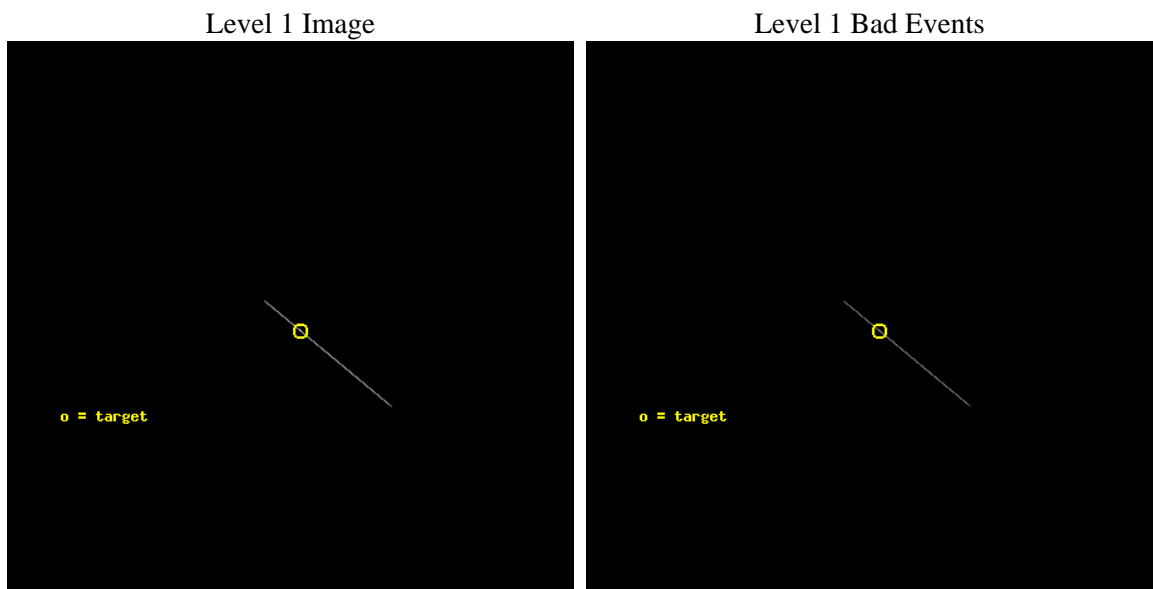
seq_num	500223	Sequence number
obs_id	2773	Observation id
title	IS THE NEARBY ISOLATED NEUTRON STAR RX J0720.4-3125 A MAGNETAR?	Pr
observer	Prof. Shrinivas Kulkarni	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.10375	Observer's specified target RA [deg]
dec_targ	-31.430806	Observer's specified target Dec [deg]
ra_nom	110.11364932487	Nominal RA [deg]
dec_nom	-31.42607375754	Nominal Dec [deg]
roll_nom	39.404174986361	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10610.5	Sum of GTIs [s]
livetime	10569.052734375	Livetime [s]
ontime7	10610.5	Sum of GTIs [s]
l2events	58172	Number of level 2 events



## 2 OBI

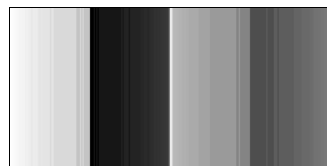
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9880.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10610.5	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime7	10610.5	Sum of GTIs [s]
date	2012-09-28T06:35:46	Date and time of file creation	l1events	69516	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	69516
rejected events	9815
rejected %	14%

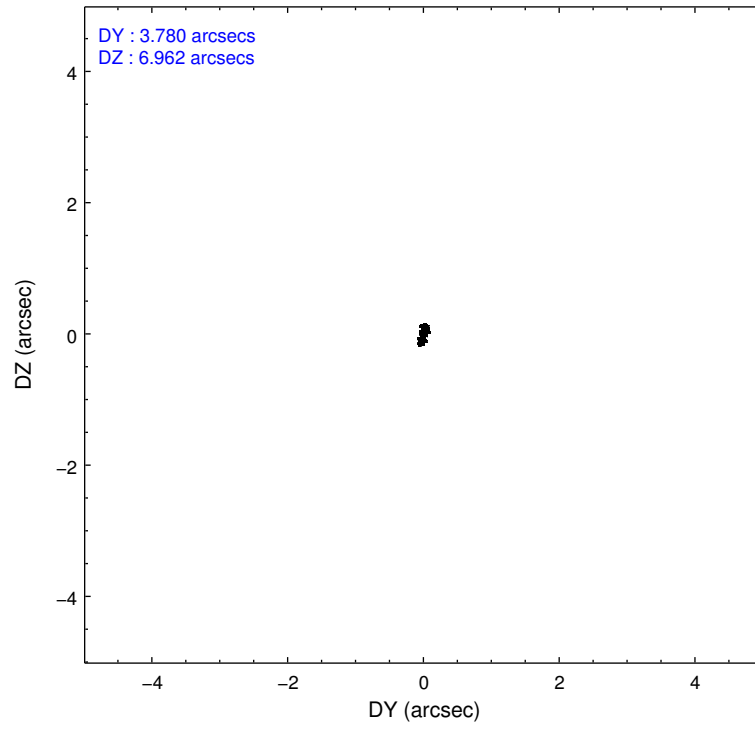
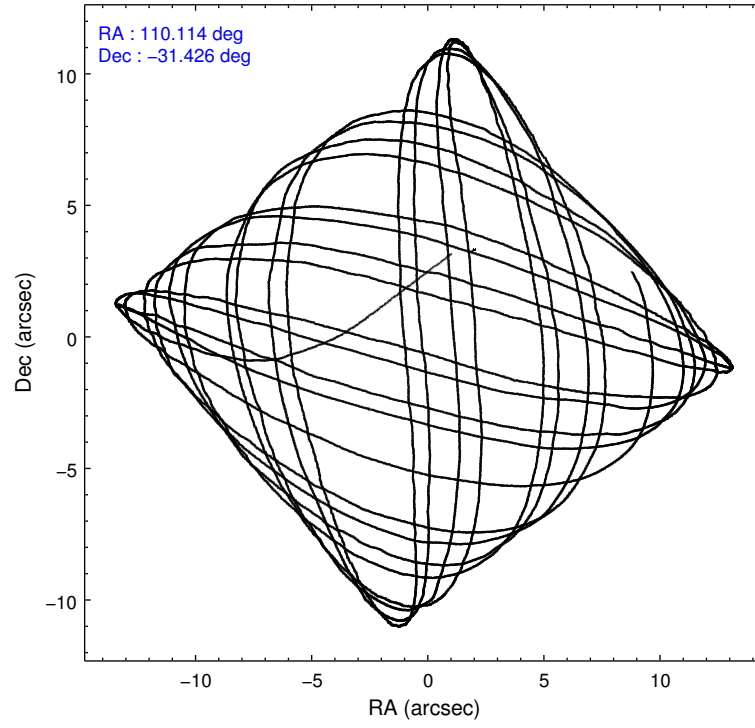
	<b>ccd 7</b>
grade 0 events	17186
	24%
grade 1 events	165
	0%
grade 2 events	14057
	20%
grade 3 events	4638
	6%
grade 4 events	4580
	6%
grade 5 events	7806
	11%
grade 6 events	21084
	30%
grade 7 events	0
	0%

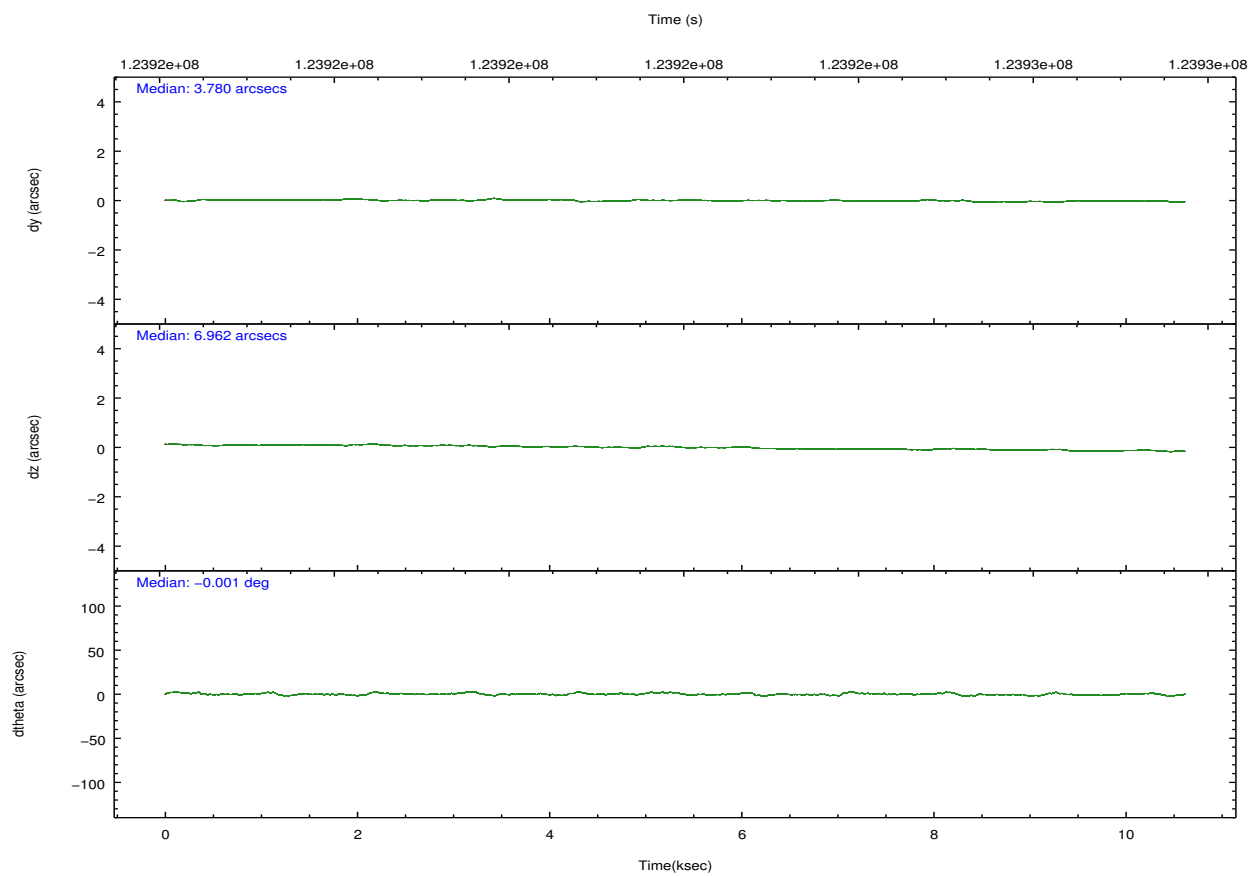
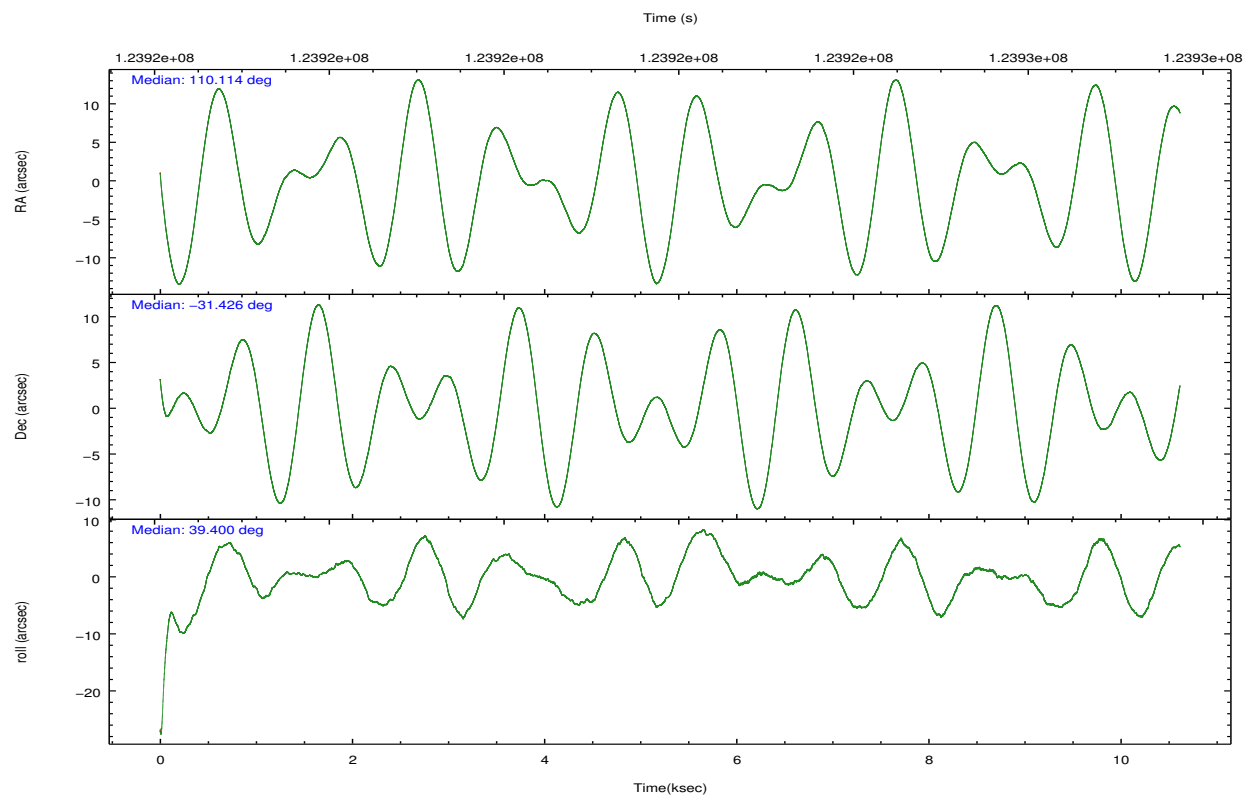


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	110.102811	110.1136493248672	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.451689	-31.42607375754033	Alternating exposures requested	N	N
[deg] Pointing Roll	39.241926	39.40417498636056	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	123917325.184000	123916092.5316			
Observation start date	2001-12-05T05:27:41	2001-12-05T05:08:12			
[s] Observation end time (MET)	123927205.184000	123929084.91962			
Observation end date	2001-12-05T08:12:21	2001-12-05T08:44:44			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



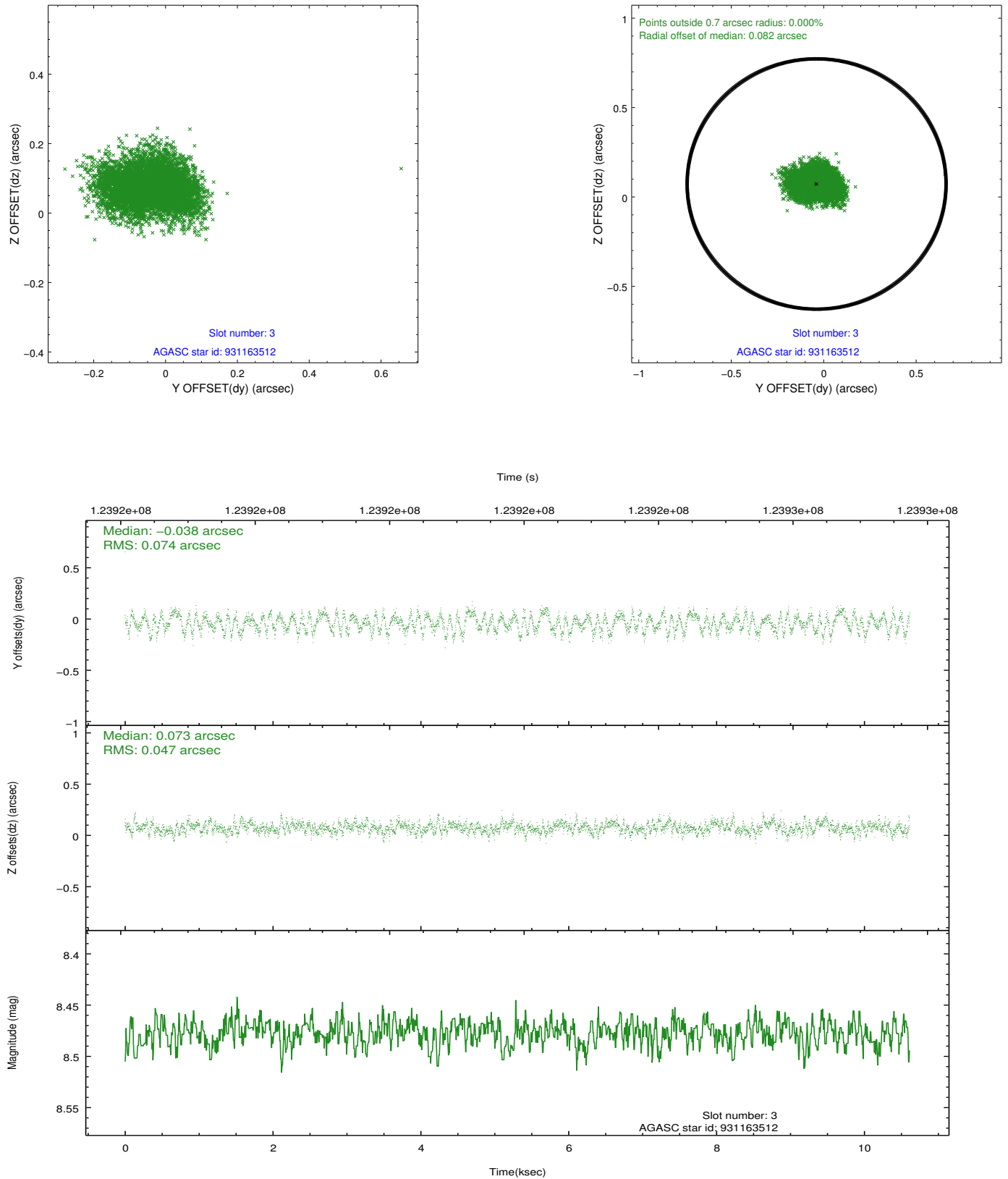


### Slot Statistics

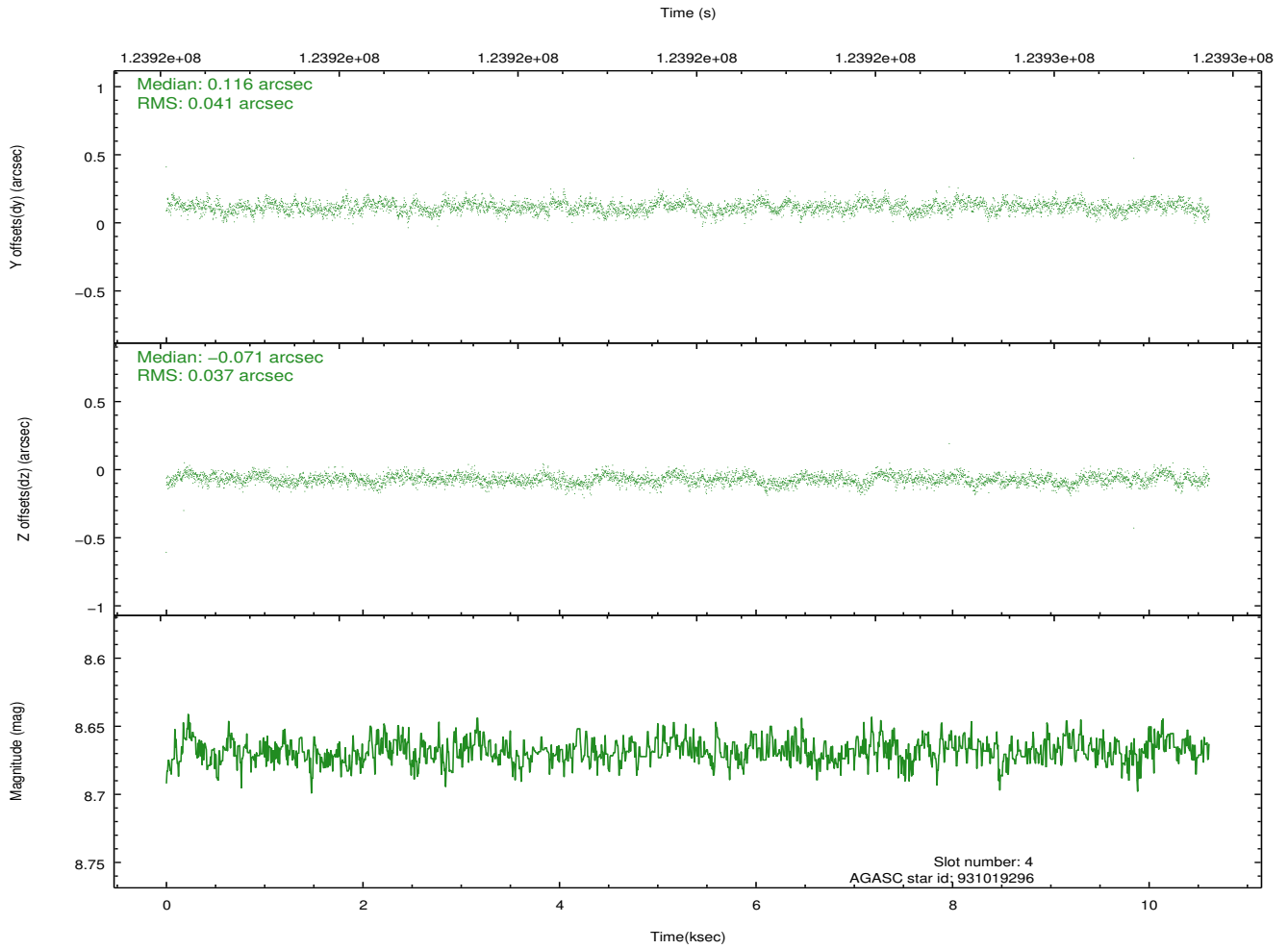
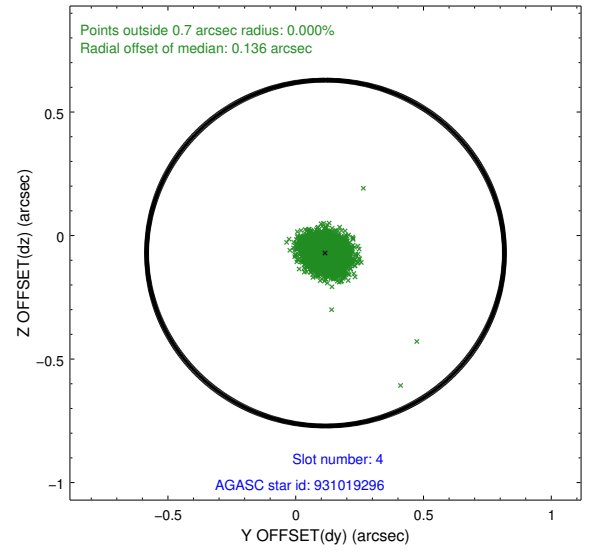
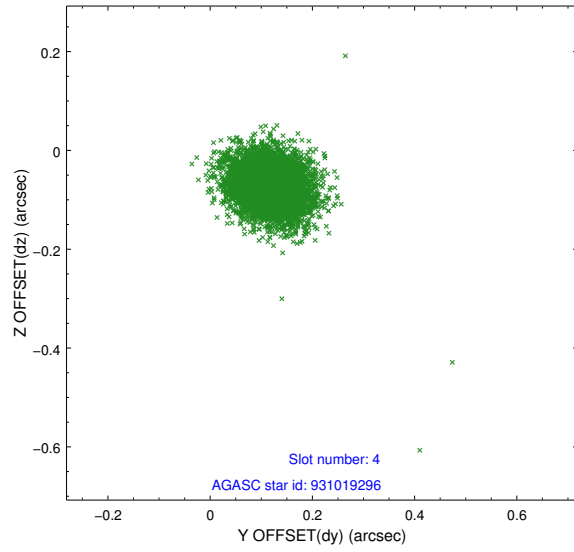
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	2589	-0.085	0.022	0.013	0.023	0.000000	0.000000	57.14	-2021.87
1	FID	ACIS-S-4	7.17	2589	0.078	0.036	0.013	0.021	0.000000	0.000000	2157.58	14.94
2	FID	ACIS-S-5	7.23	2590	-0.020	-0.048	0.009	0.016	0.000000	0.000000	-1808.10	9.34
3	GUIDE	931163512	8.48	5179	-0.038	0.073	0.094	0.145	110.894384	-31.299941	2226.02	-1123.84
4	GUIDE	931019296	8.67	5179	0.116	-0.071	0.057	0.094	109.471771	-31.694370	-2052.69	541.35
5	GUIDE	931160352	8.63	5177	-0.075	-0.078	0.061	0.100	110.268138	-30.864891	1731.39	1312.79
6	GUIDE	931005504	9.34	5138	0.155	-0.073	0.073	0.119	109.438314	-31.669733	-2076.71	675.25
7	GUIDE	931152840	9.13	5175	-0.160	0.150	0.095	0.150	110.877463	-31.769293	1107.34	-2391.62

## 2.4 Star Slots

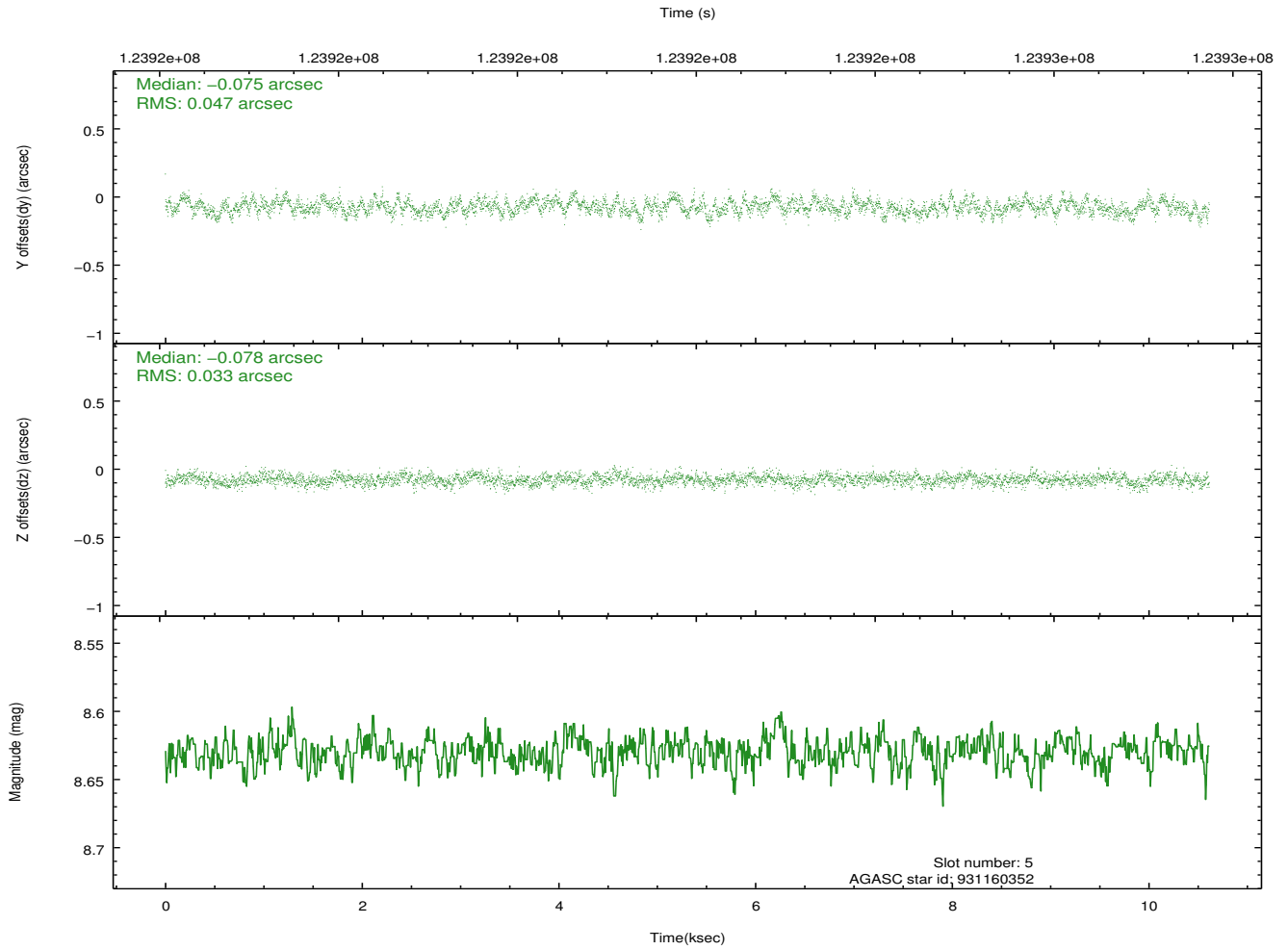
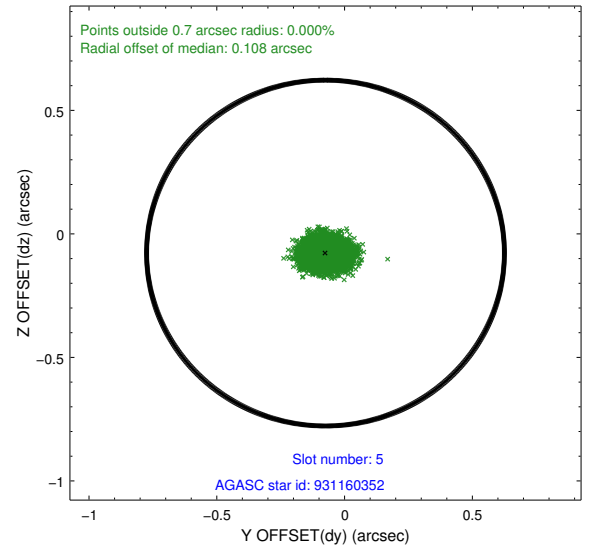
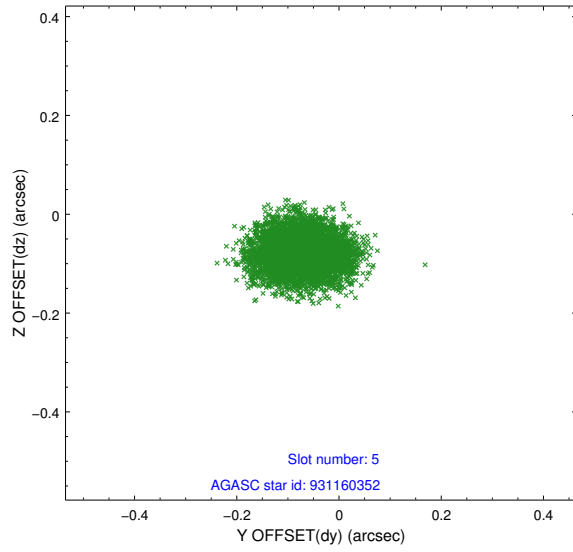
### 2.4.1 Slot 3



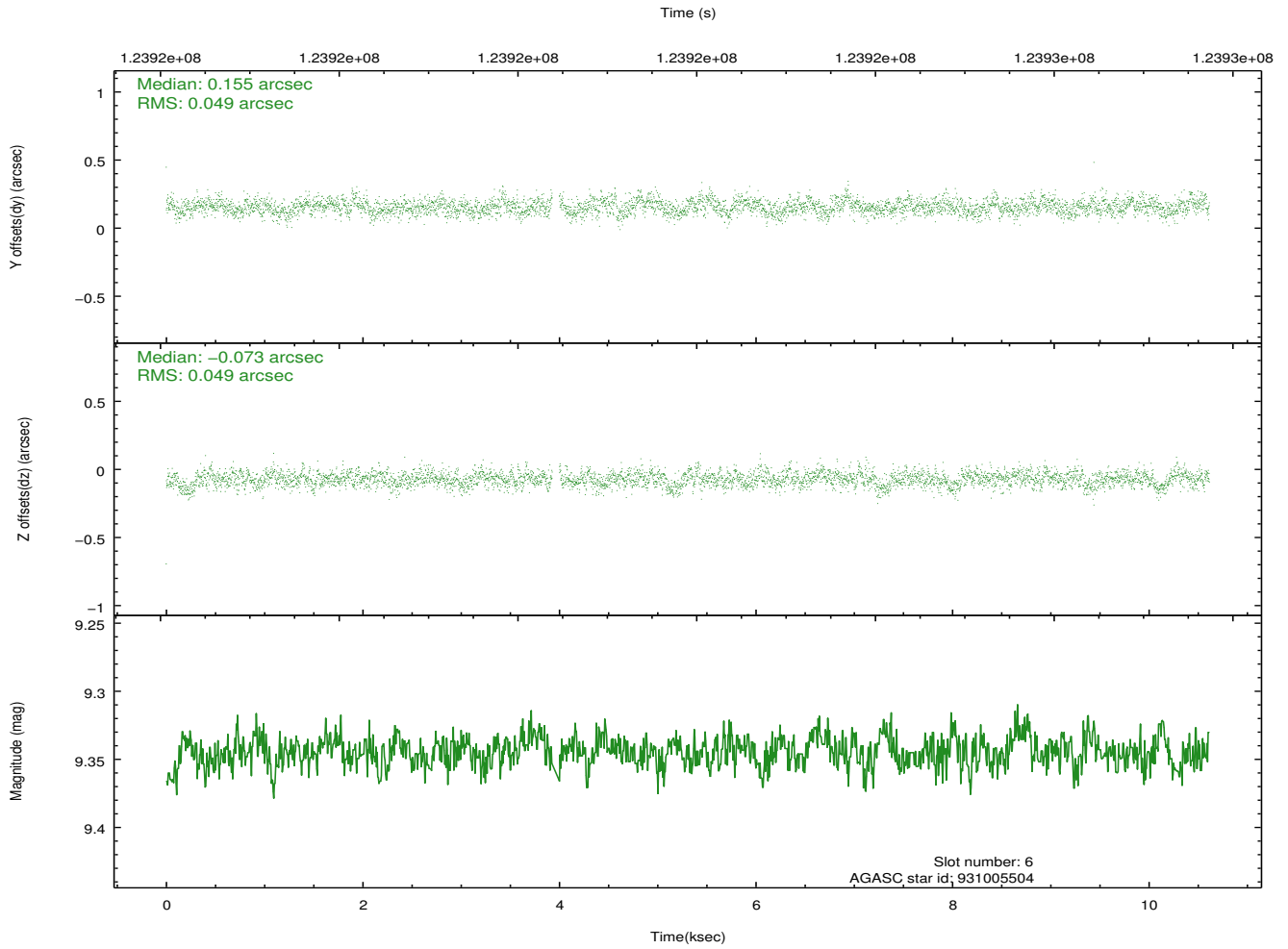
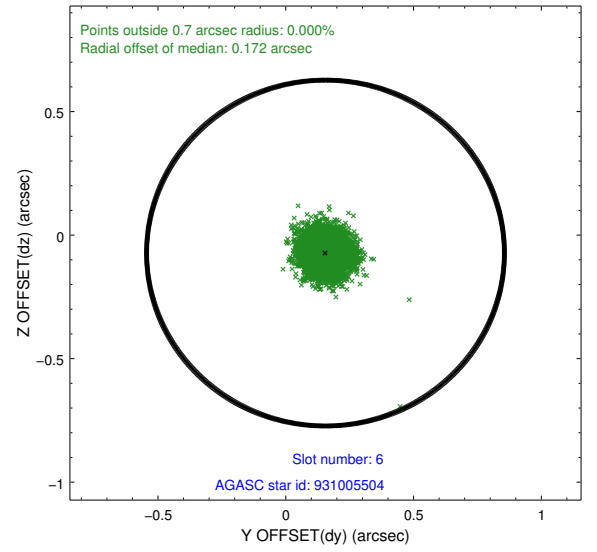
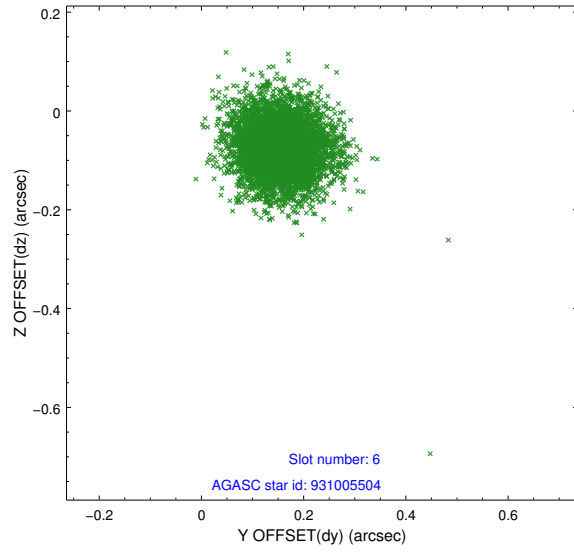
## 2.4.2 Slot 4



### 2.4.3 Slot 5

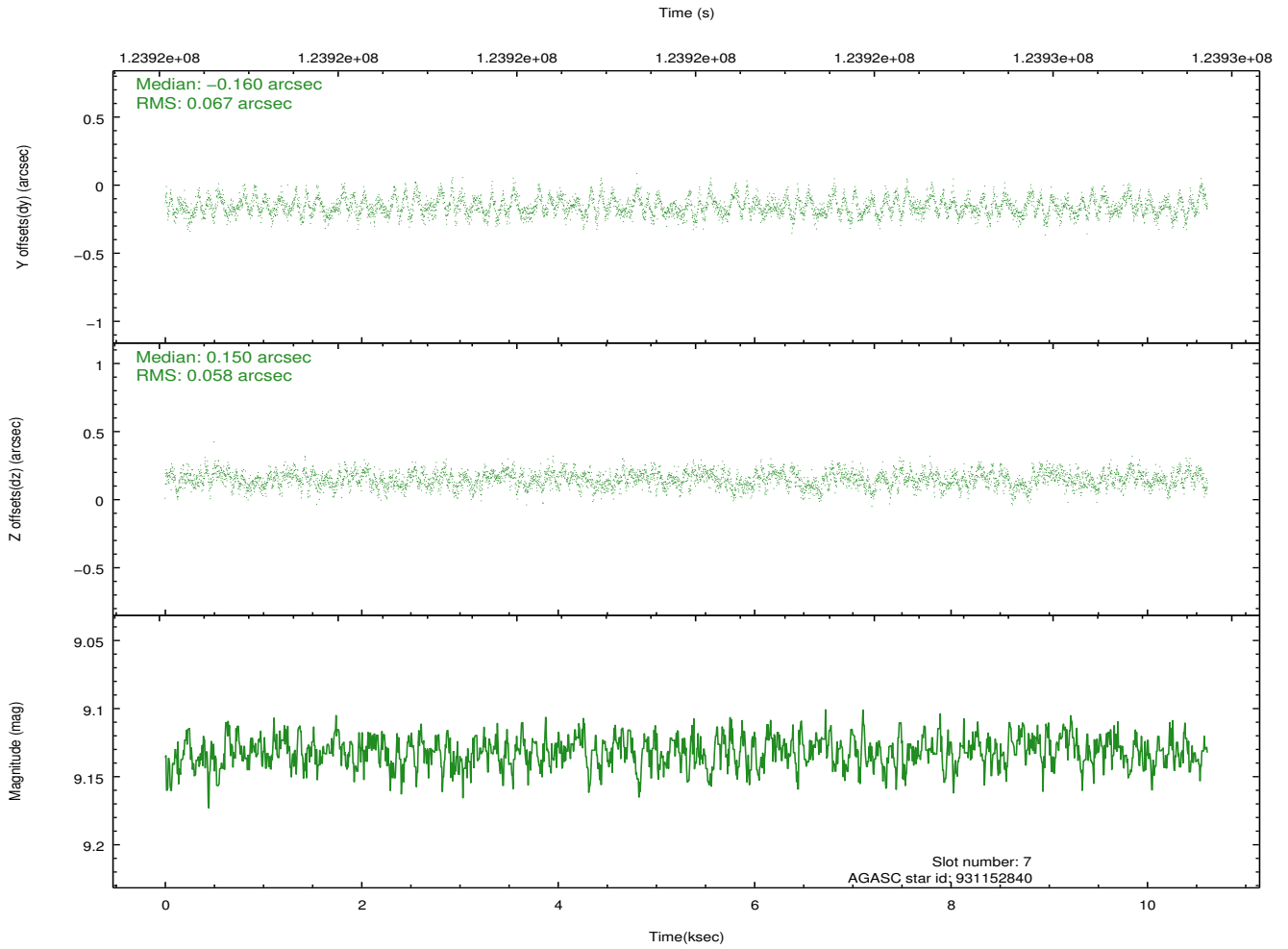
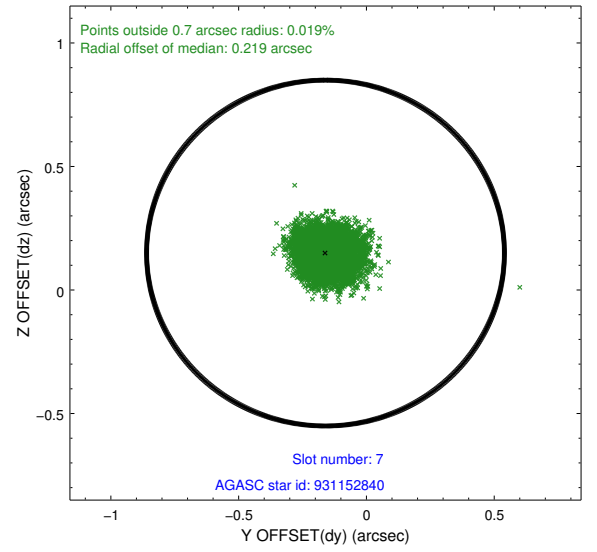
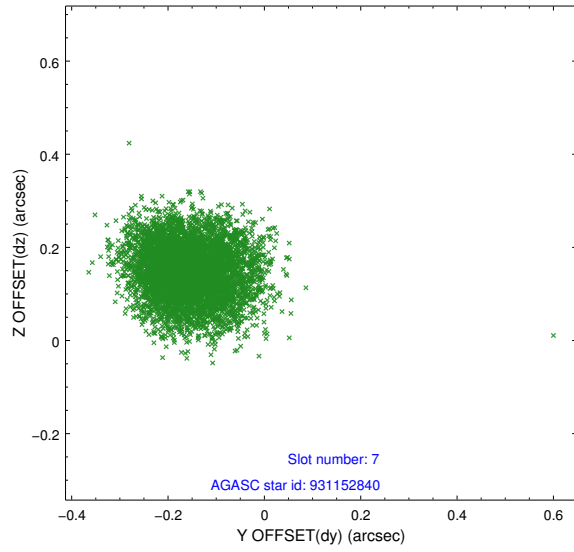


## 2.4.4 Slot 6



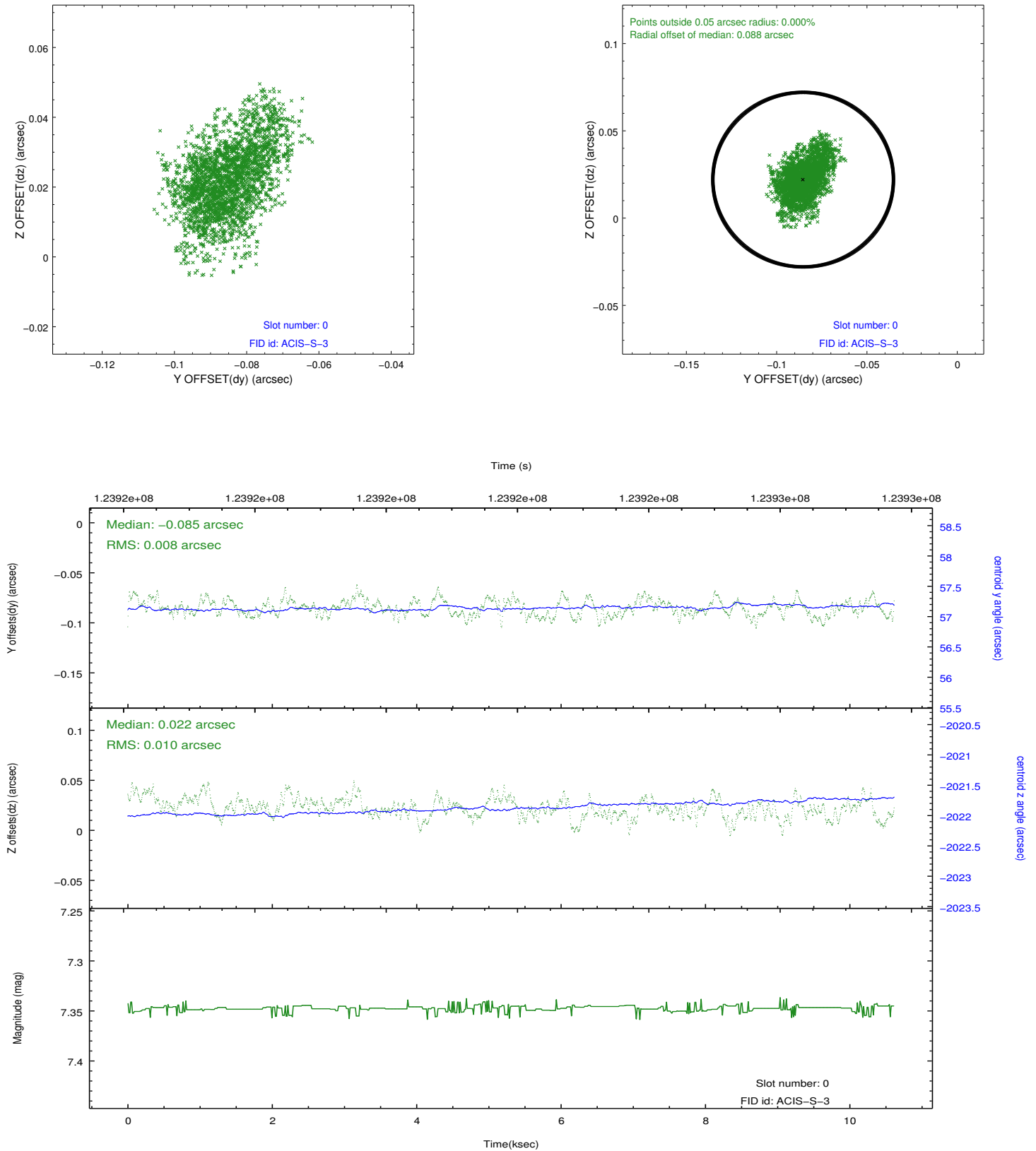


## 2.4.5 Slot 7

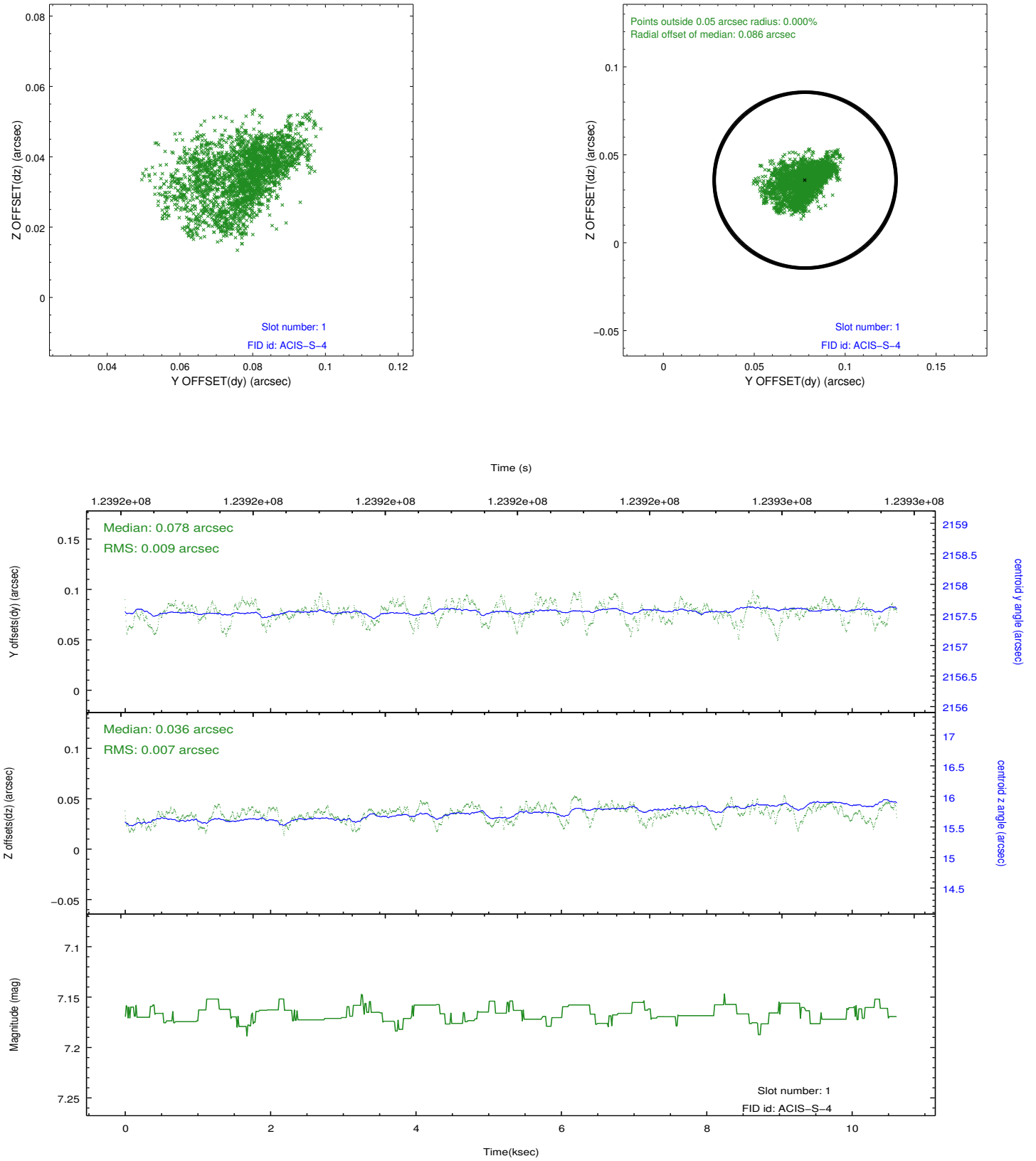


## 2.5 FID Slots

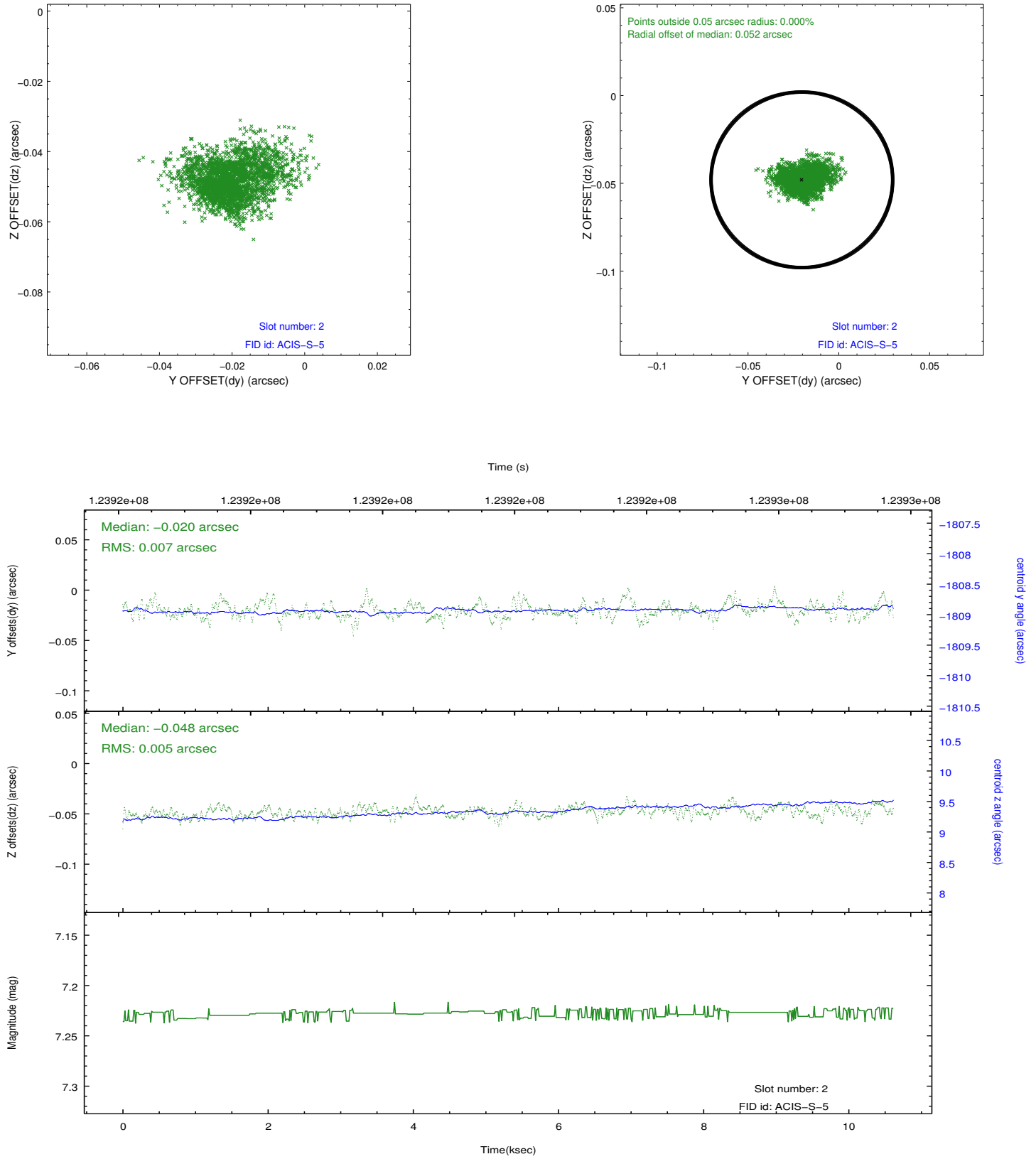
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.613

### A.2 Comments