

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2633 - L2 Version 3  
Chandra X-Ray Center

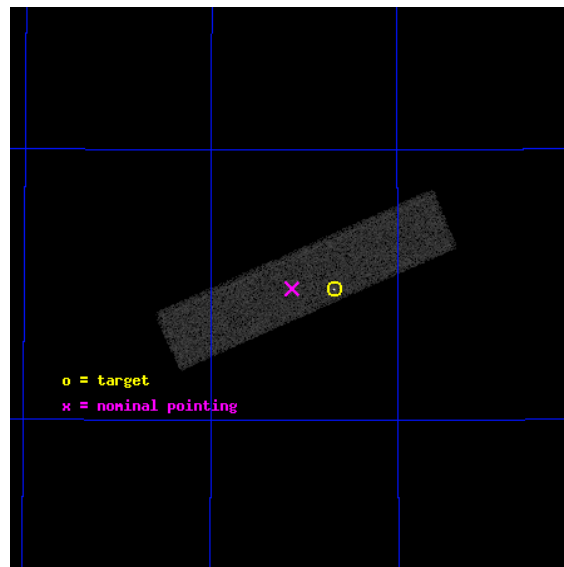
L2 Processing Date : Oct 1 2012

## 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

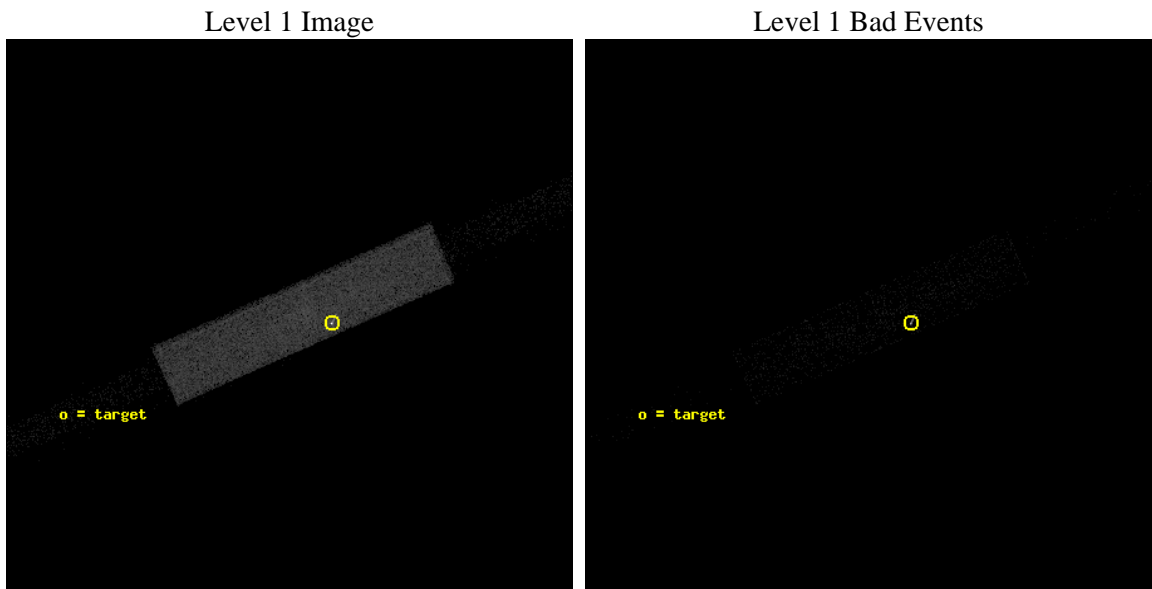
seq_num	290189	Sequence number
obs_id	2633	Observation id
title	AO3A HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC	Proposal ti
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.28314221831	Nominal RA [deg]
dec_nom	45.743200310116	Nominal Dec [deg]
roll_nom	336.19714236074	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1142.1062960178	[s]
livetime	1136.125809972	Ontime multiplied by DTCOR
l2events	40796	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1142.1062960178	[s]
caldsver	4.5.2	&#160	l1events	68108	Number of level 1 events
date	2012-10-01T03:03:33	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

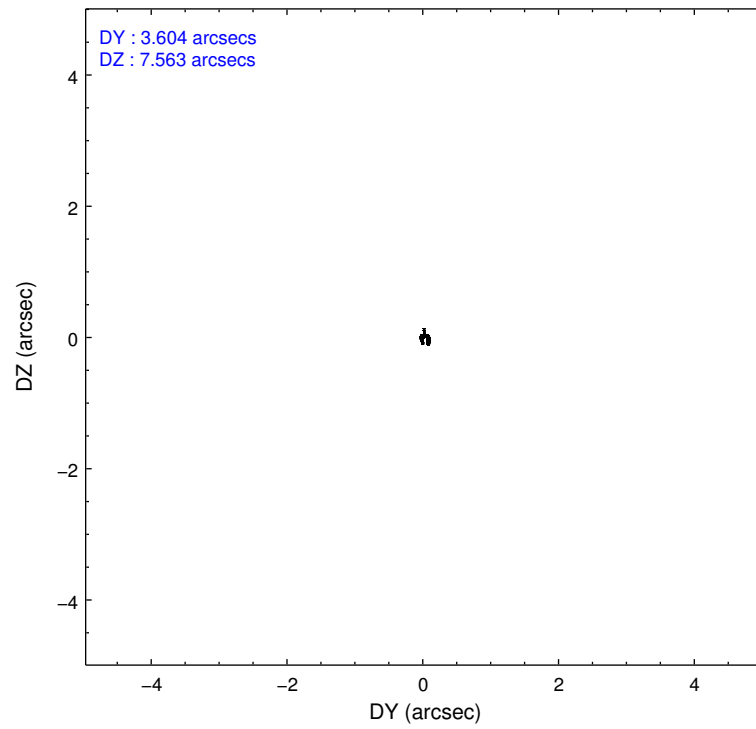
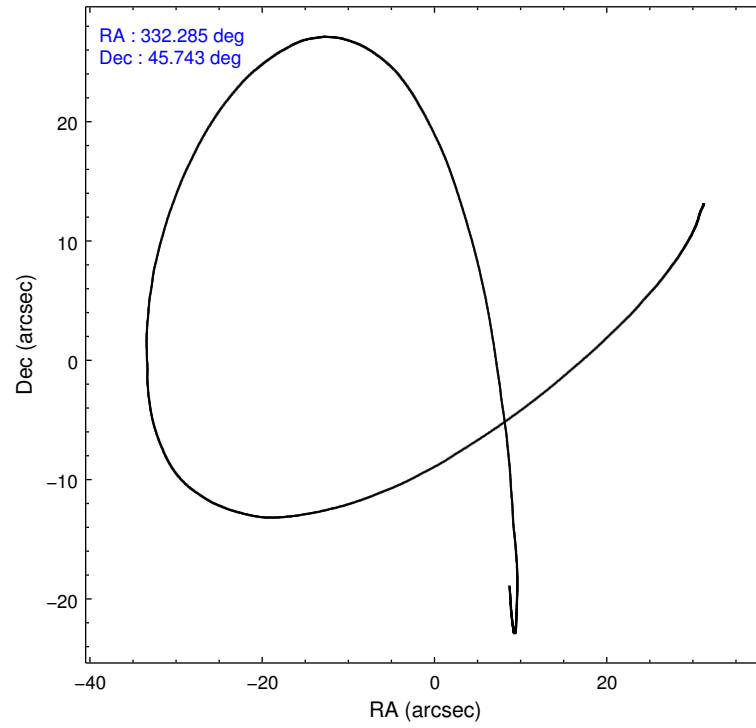
Level 1 Events

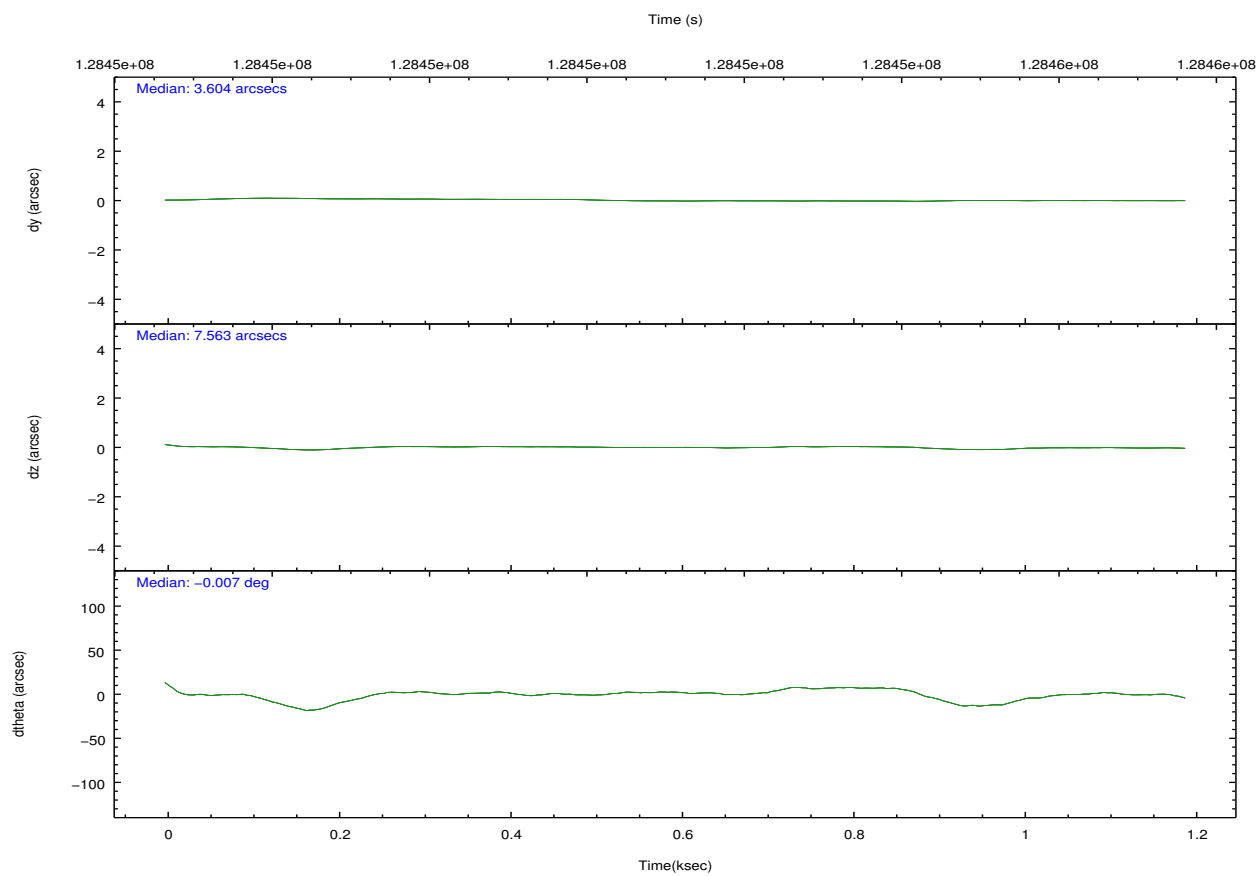
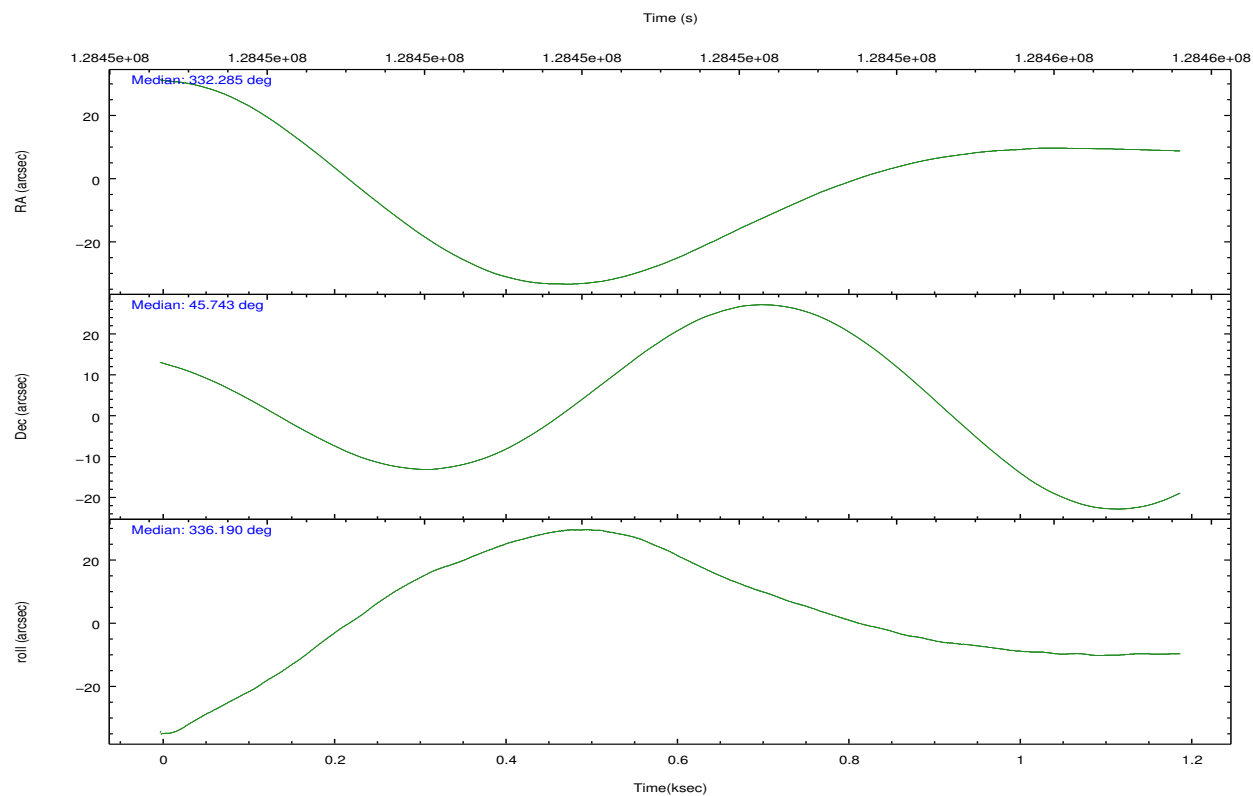
	segment 1	segment 2	segment 3
level 1 events	1067	66044	997
rejected events	1067	15210	997
rejected %	100%	23%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.242272	332.2831422183067			
[deg] Pointing Dec	45.739350	45.74320031011627			
[deg] Pointing Roll	336.159073	336.1971423607444			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	128454107.184000	128453731.32628			
Observation start date	2002-01-26T17:40:43	2002-01-26T17:35:31			
[s] Observation end time (MET)	128455107.184000	128455241.15134			
Observation end date	2002-01-26T17:57:23	2002-01-26T18:00:41			

## 2.3 Aspect





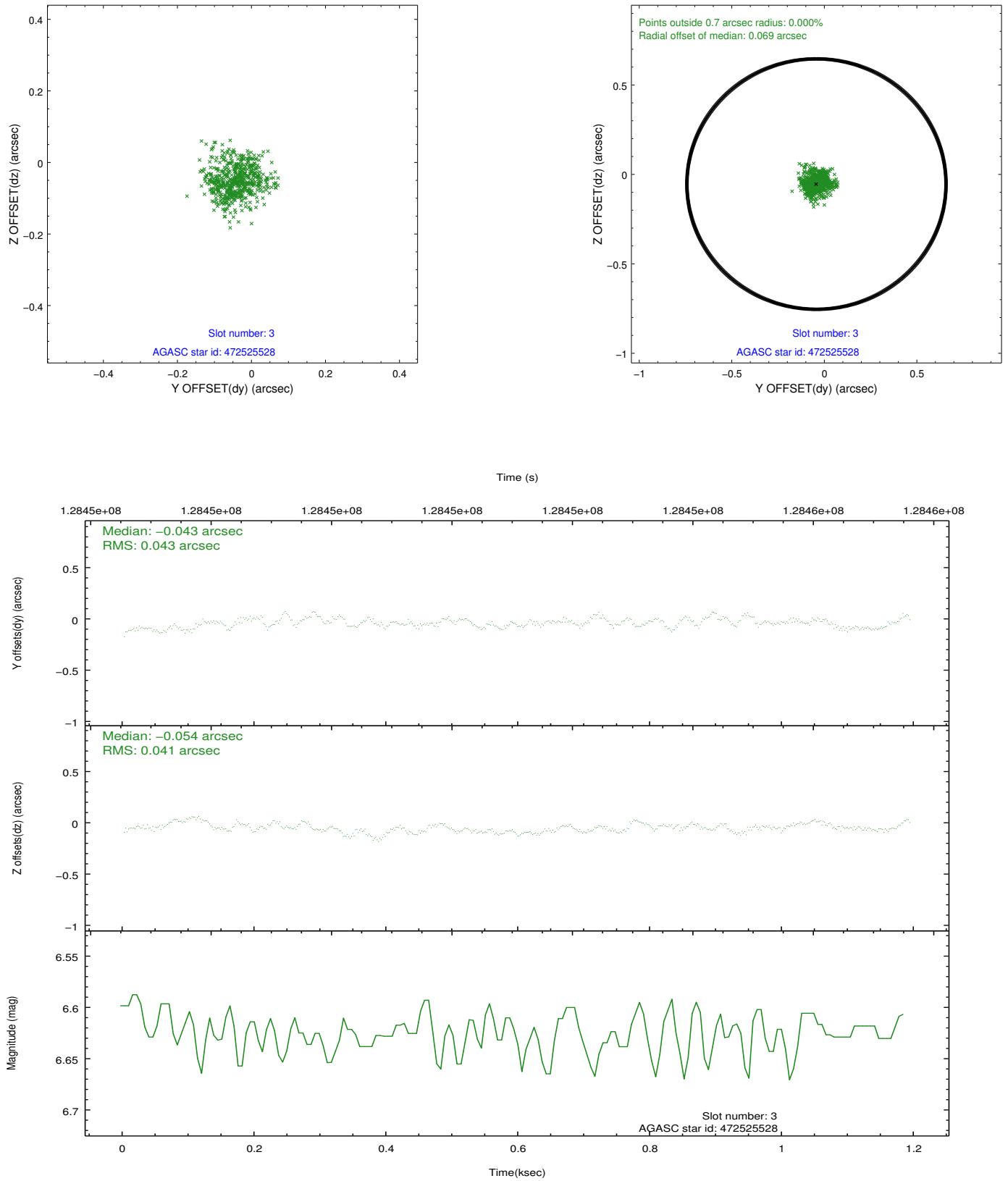
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	291	0.103	-0.081	0.012	0.031	0.000000	0.000000	-1157.68	-456.15
1	FID	HRC-S-3	7.00	291	0.153	-0.128	0.022	0.049	0.000000	0.000000	-1164.39	571.76
2	FID	HRC-S-4	6.93	291	0.131	-0.089	0.016	0.042	0.000000	0.000000	1236.54	578.04
3	GUIDE	472525528	6.63	582	-0.043	-0.054	0.065	0.101	331.551102	45.248694	-893.64	-2315.74
4	GUIDE	472665256	9.01	579	-0.113	-0.053	0.086	0.140	332.808125	46.195041	620.48	2072.22
5	GUIDE	472659832	9.47	579	0.030	0.125	0.112	0.209	332.780399	46.098139	703.36	1733.49
6	GUIDE	472523568	9.34	582	-0.080	-0.016	0.111	0.183	331.465966	45.371411	-1265.32	-1992.39
7	GUIDE	472646552	9.64	575	0.223	-0.004	0.127	0.206	333.120915	45.571877	2259.74	352.55

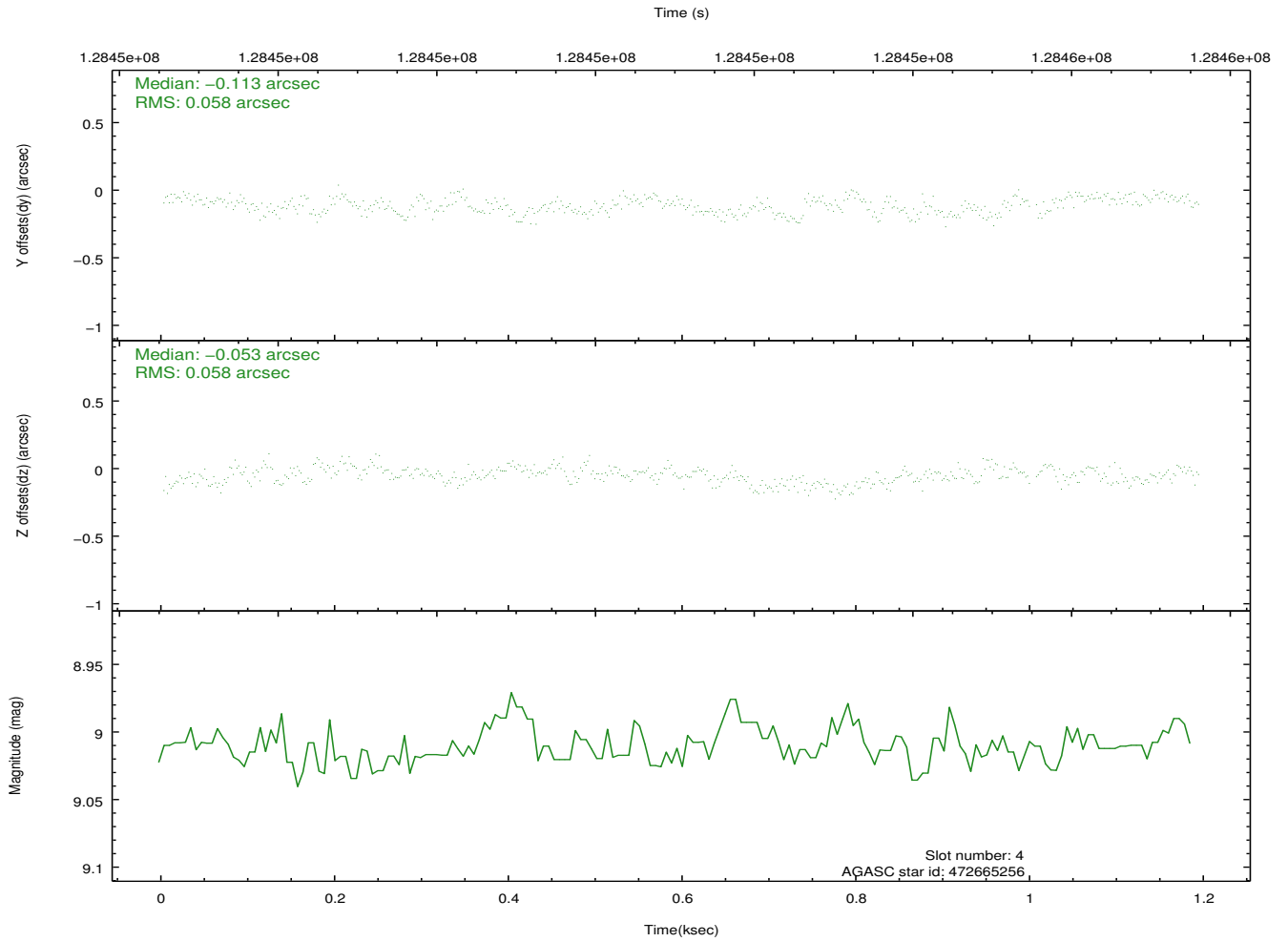
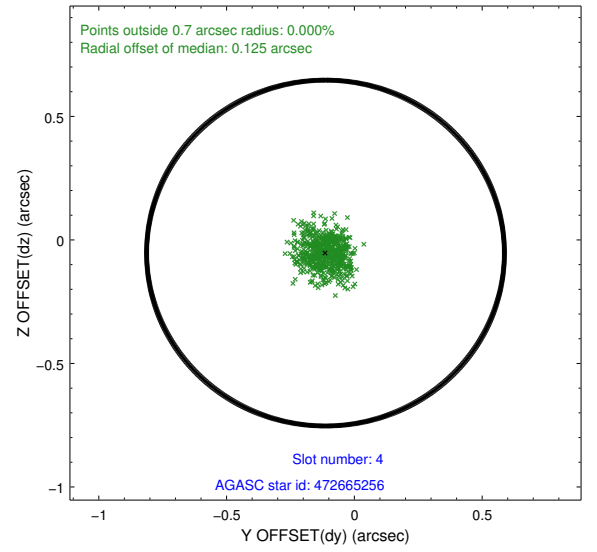
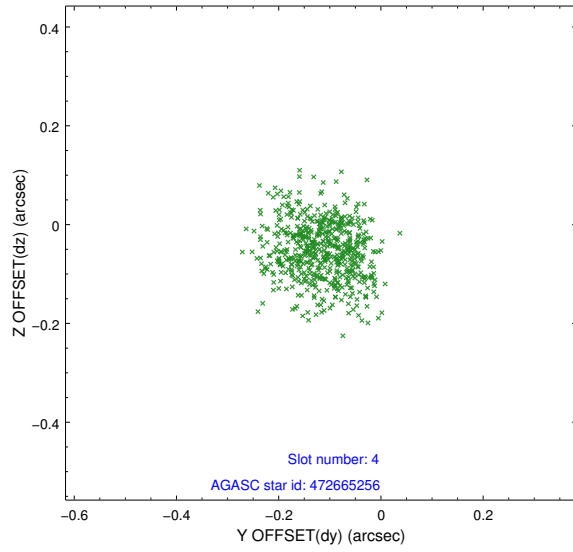


## 2.4 Star Slots

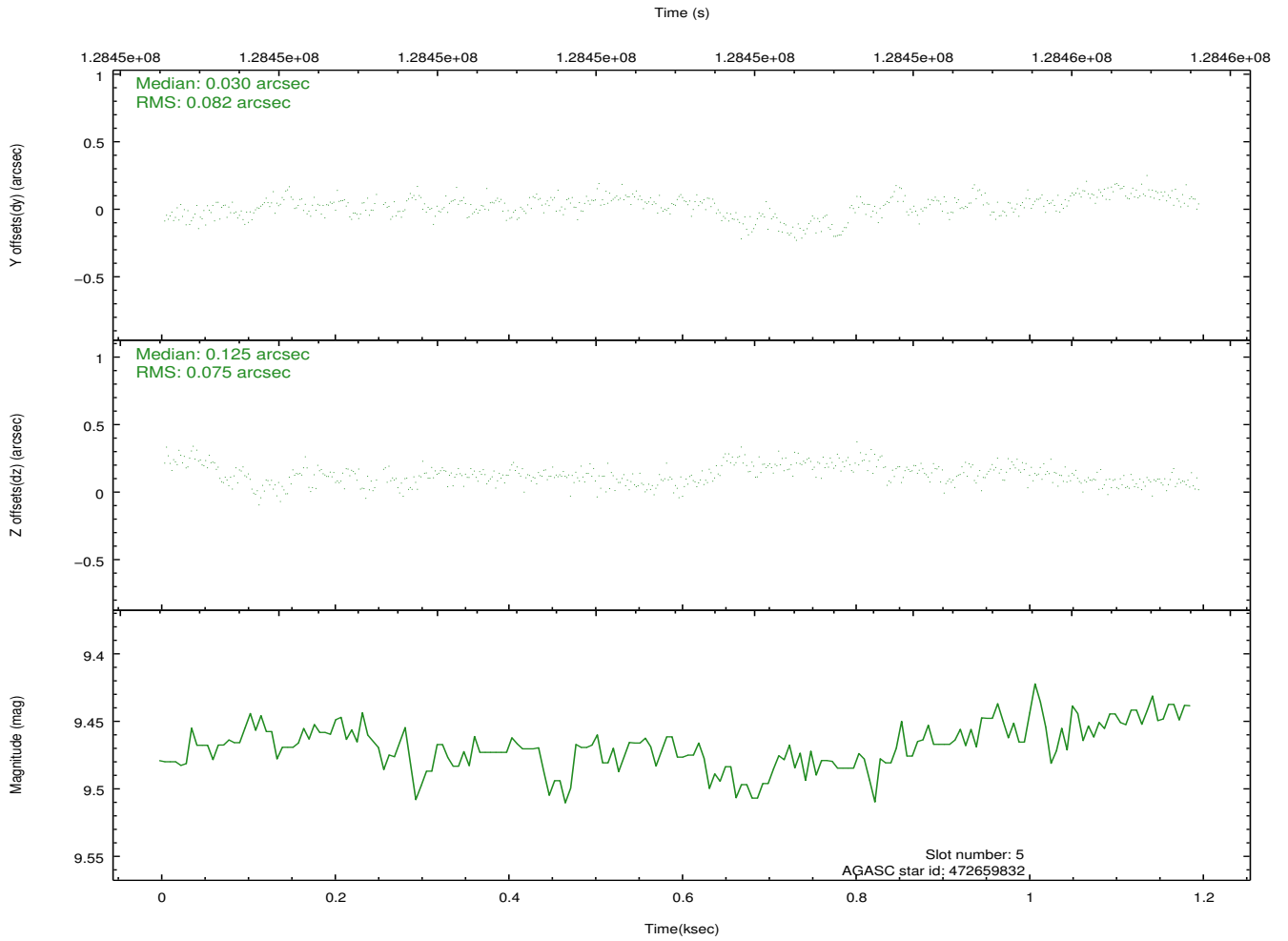
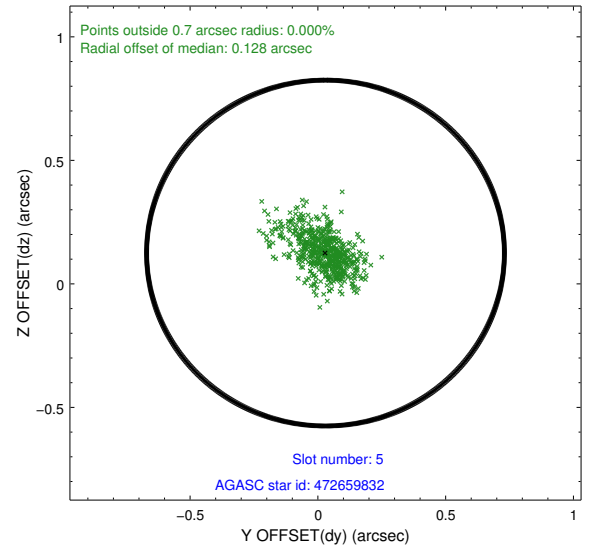
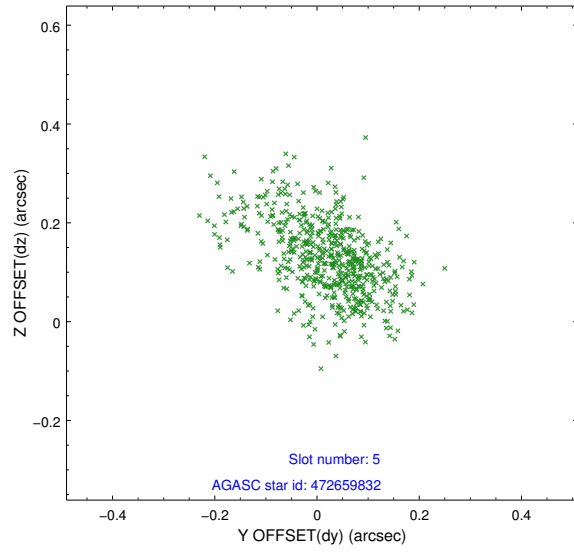
### 2.4.1 Slot 3



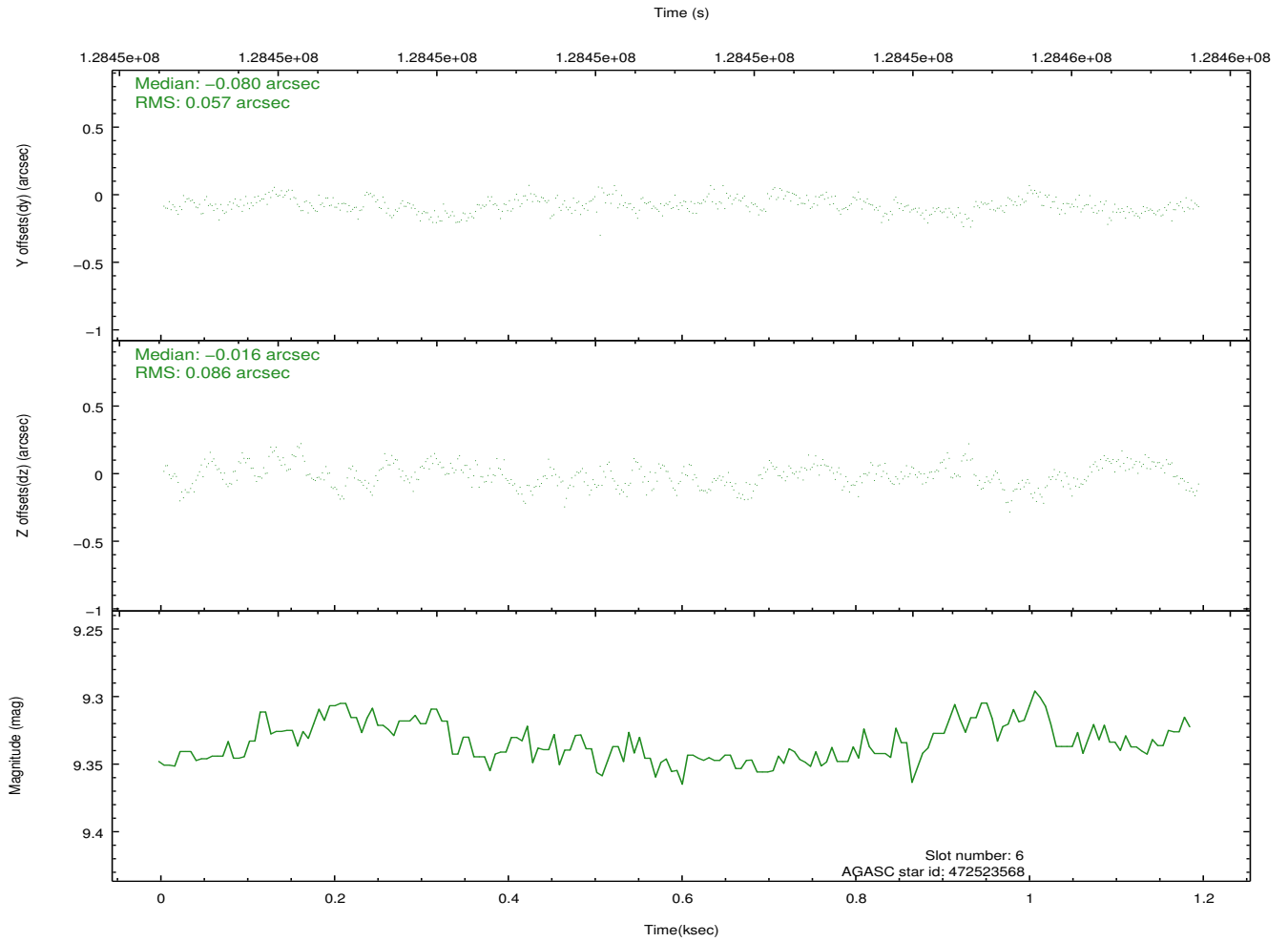
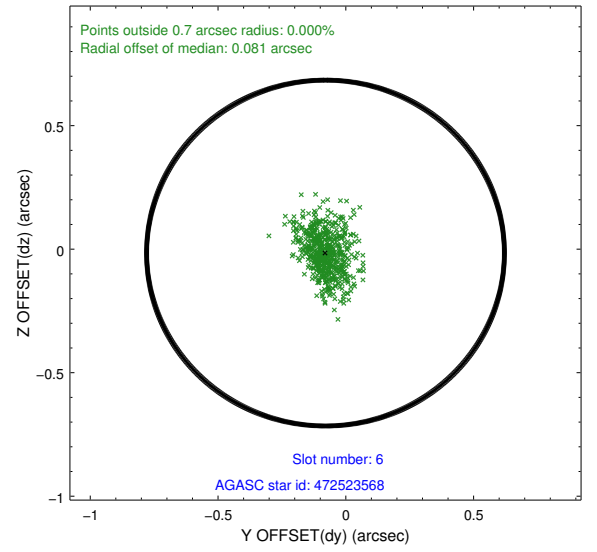
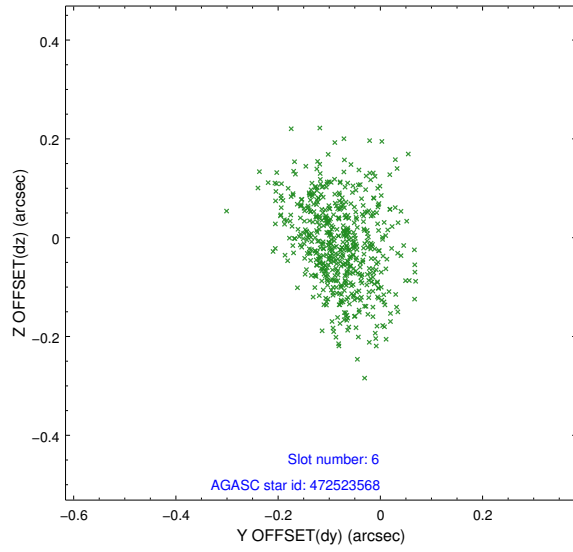
## 2.4.2 Slot 4



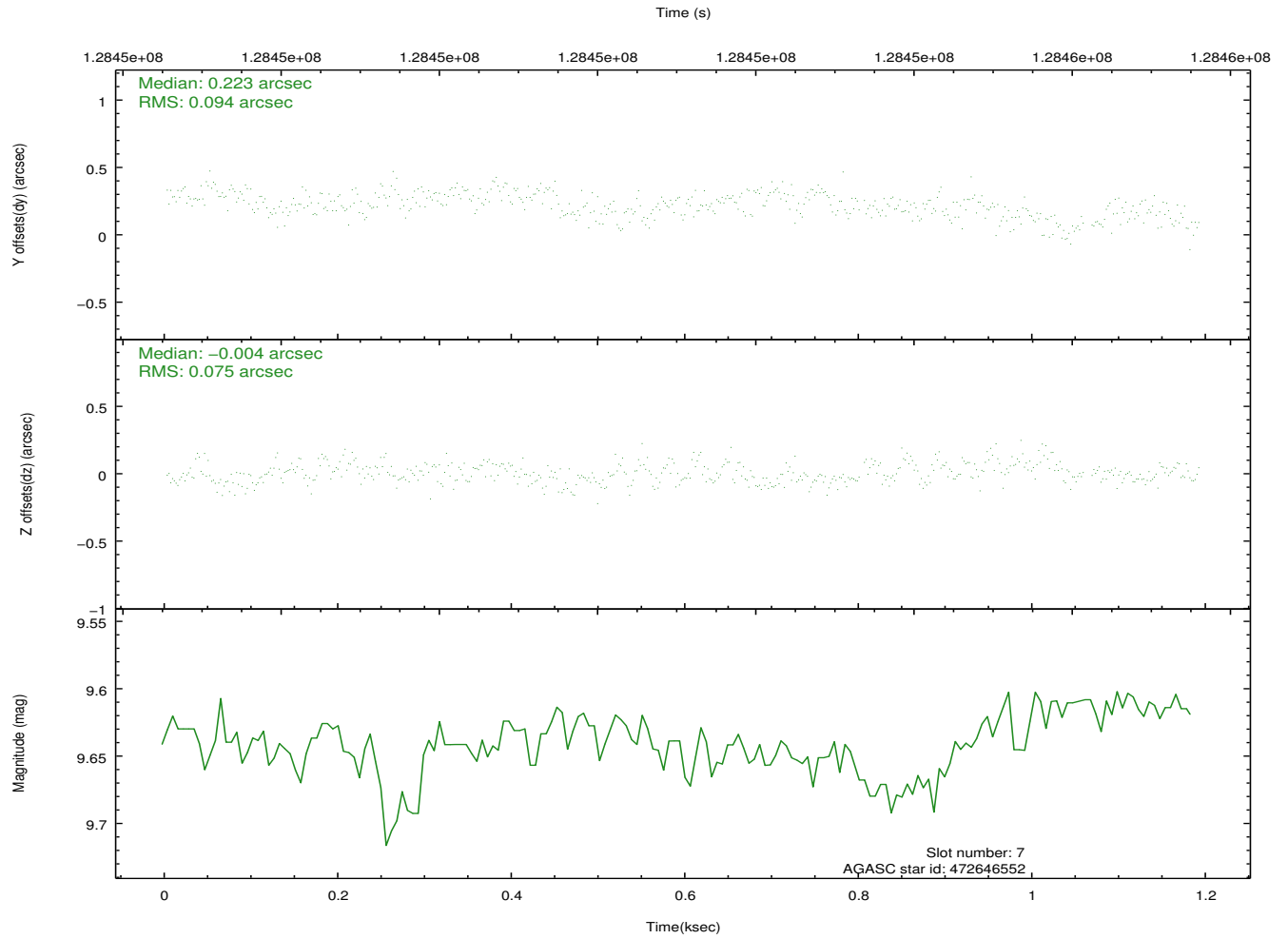
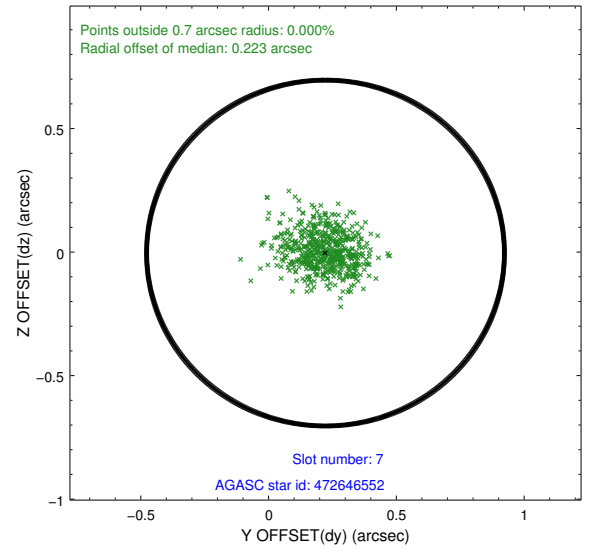
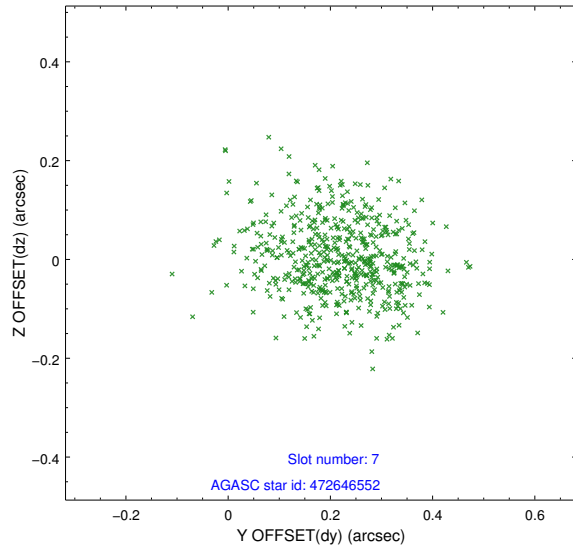
### 2.4.3 Slot 5



## 2.4.4 Slot 6

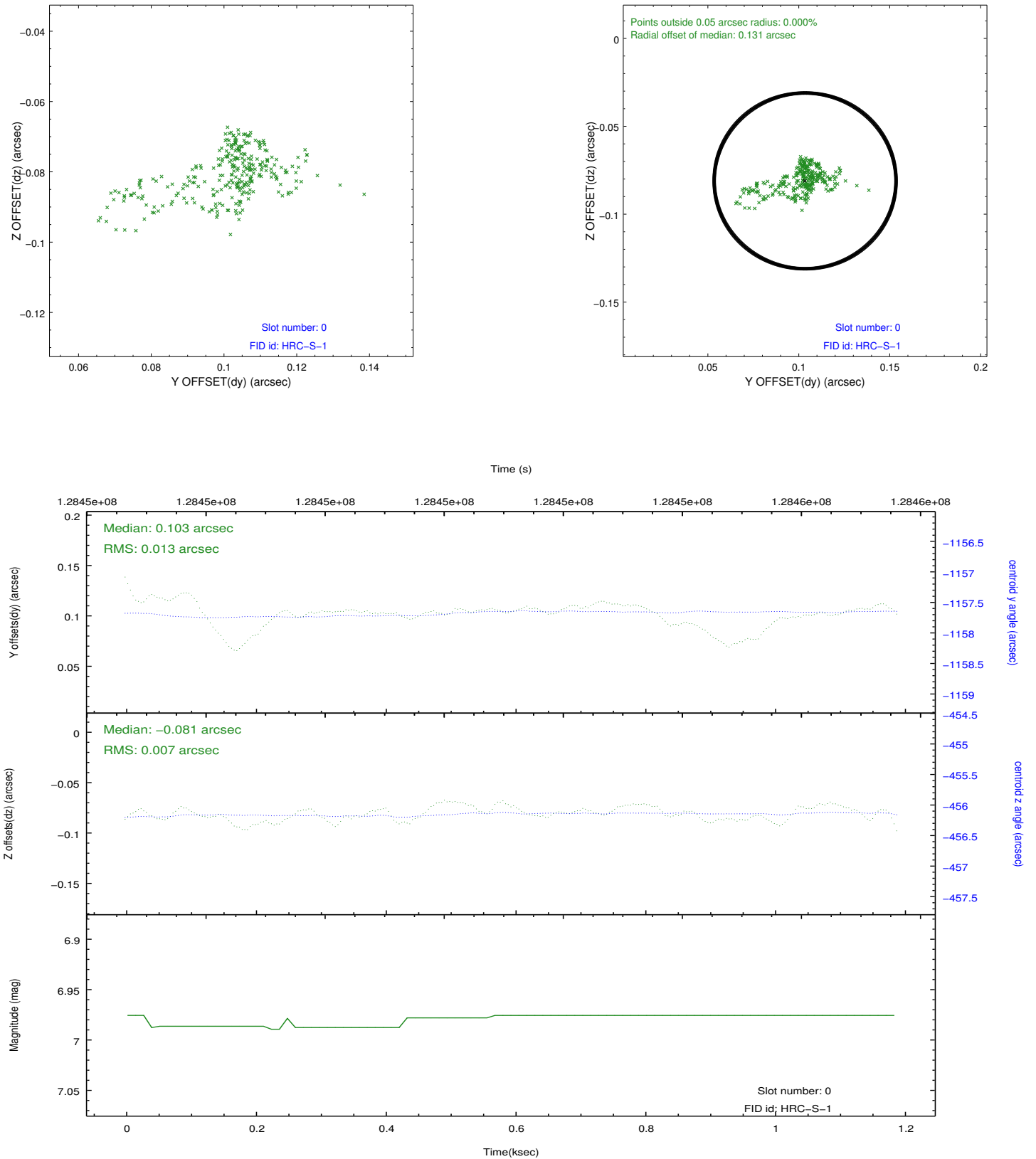


## 2.4.5 Slot 7

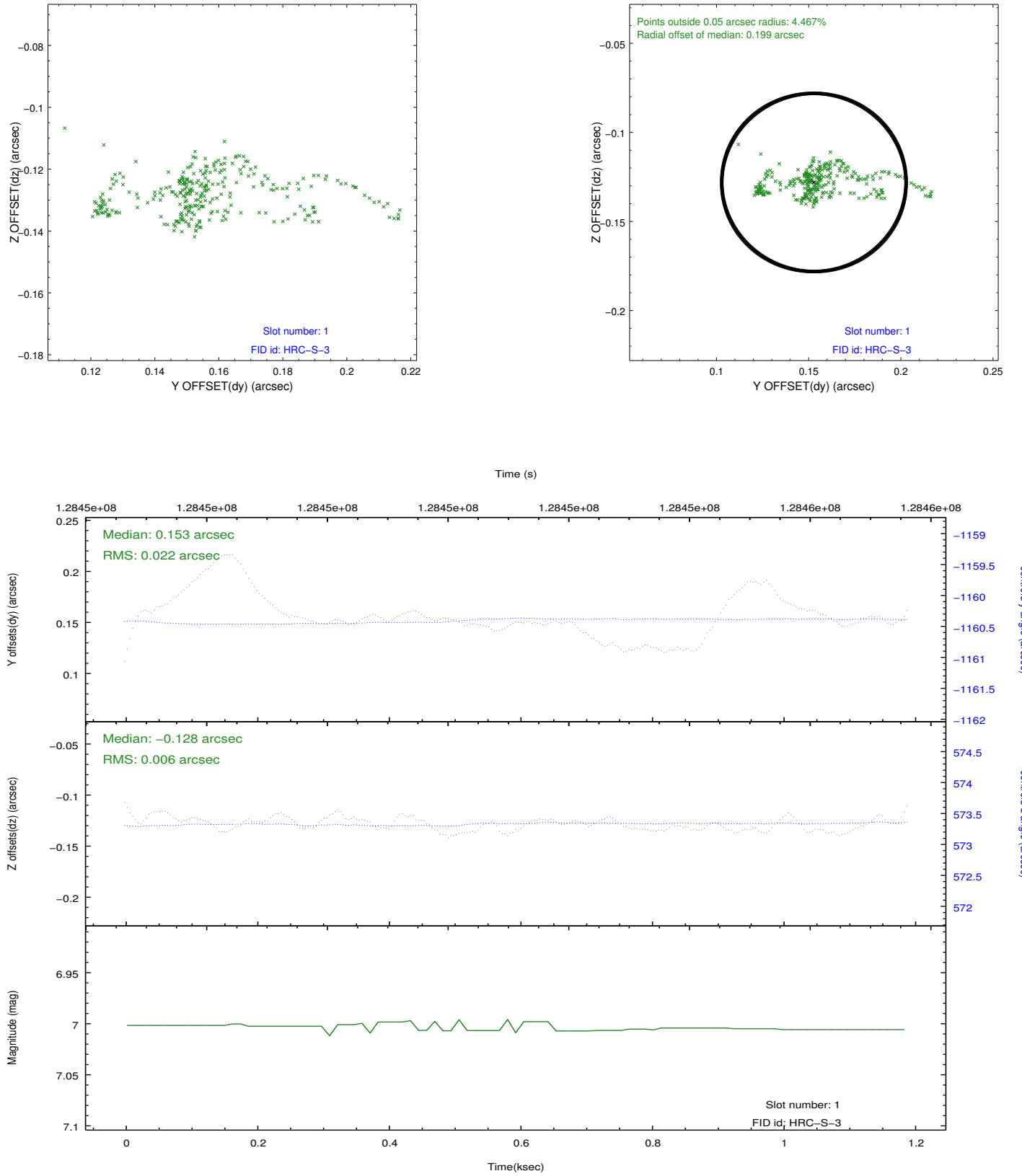


## 2.5 FID Slots

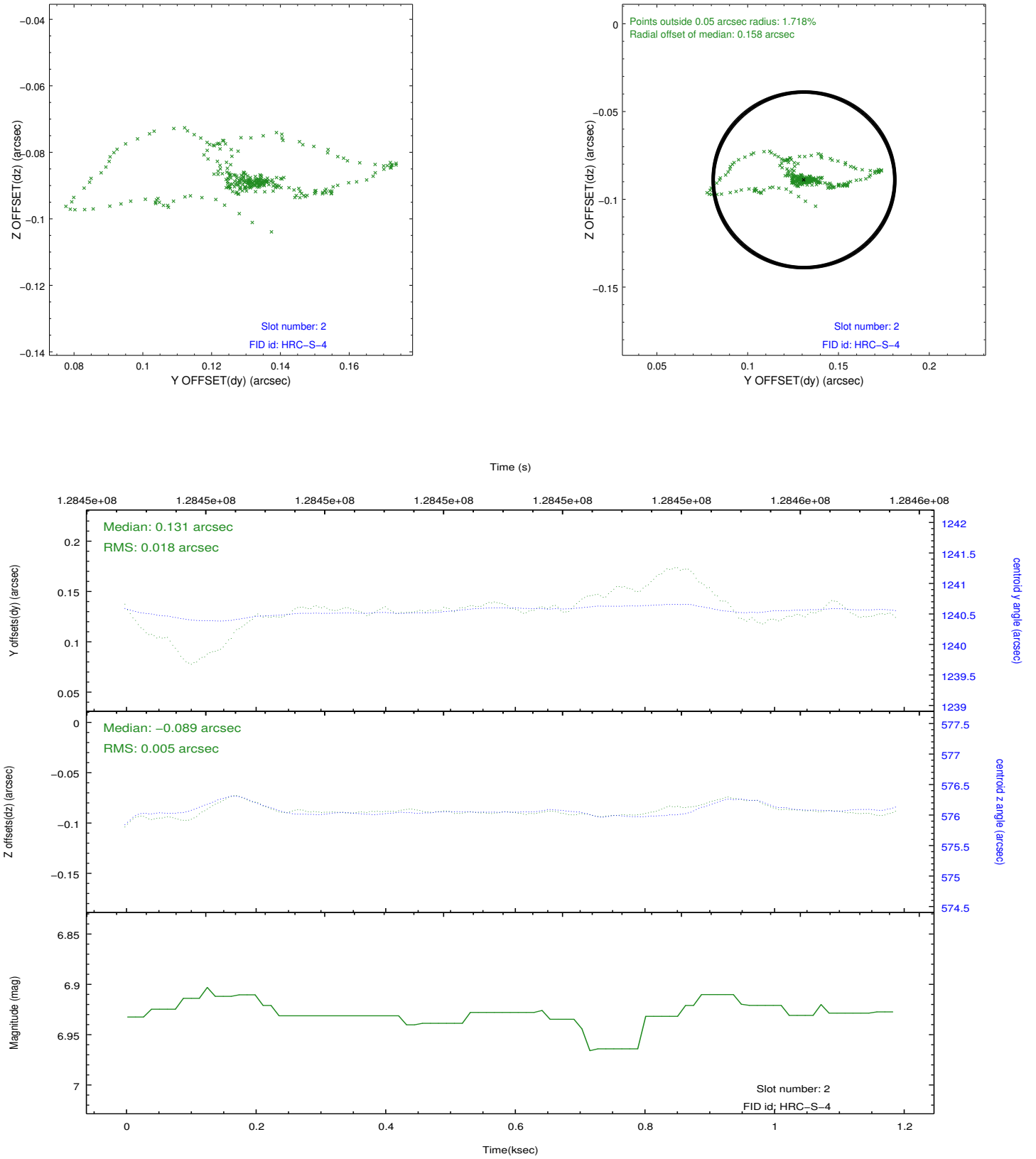
### 2.5.1 Slot 0



## 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)	2012.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.181

### A.2 Comments

Charge time for this ObsId remains at previous value of 1.181 ks although with the current processing the charge time would have been 1.14 ksec.