

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11034 - L2 Version 2  
Chandra X-Ray Center

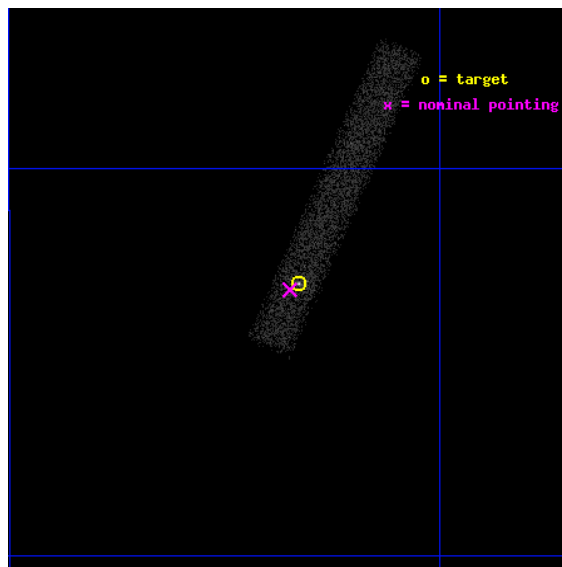
L2 Processing Date : Jun 26 2012

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# 1 Front

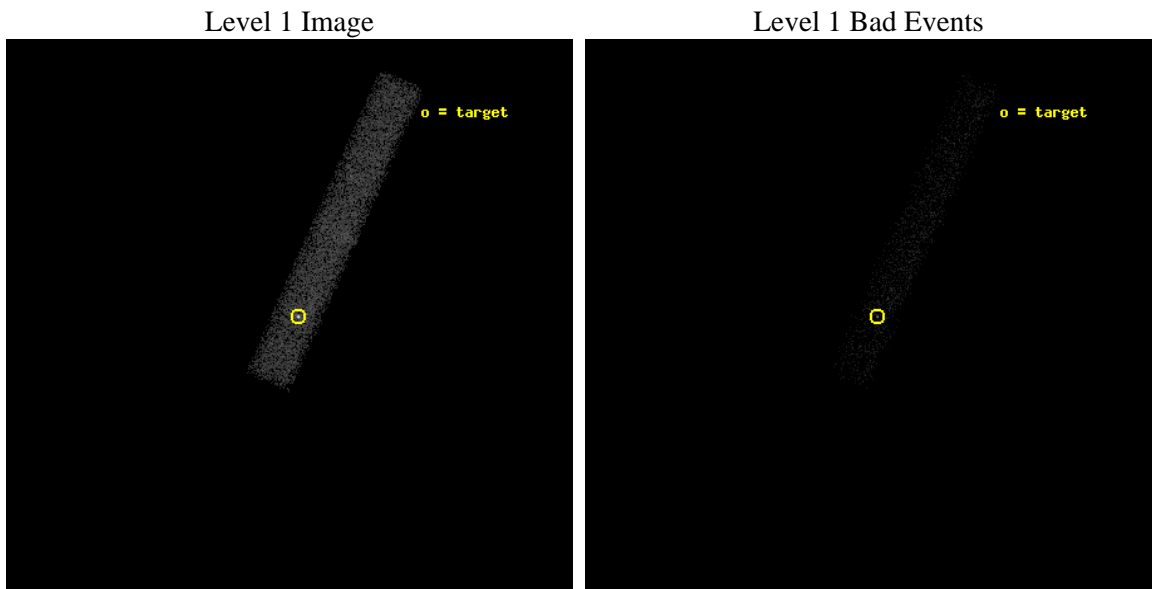
seq_num	401069	Sequence number
obs_id	11034	Observation id
title	An Irradiated Disk in an Ultraluminous X-Ray Source	Proposal title
observer	Prof. Philip Kaaret	Principal investigator
object	NGC 5408 X-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.831667	Observer's specified target RA [deg]
dec_targ	-41.382917	Observer's specified target Dec [deg]
ra_nom	210.83704495426	Nominal RA [deg]
dec_nom	-41.385649863537	Nominal Dec [deg]
roll_nom	294.11661301477	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12009.999284148	Sum of GTIs [s]
livetime	10892.435410982	Livetime [s]
ontime7	12009.999284148	Sum of GTIs [s]
l2events	11168	Number of level 2 events



## 2 OBI

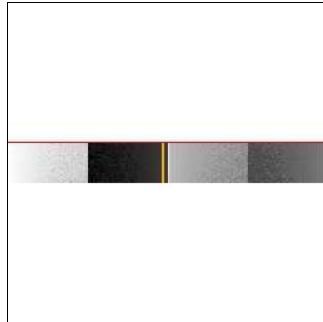
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	12009.999284148	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	12009.999284148	Sum of GTIs [s]
date	2012-06-26T13:48:05	Date and time of file creation	l1events	19246	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	19246
rejected events	7672
rejected %	39%

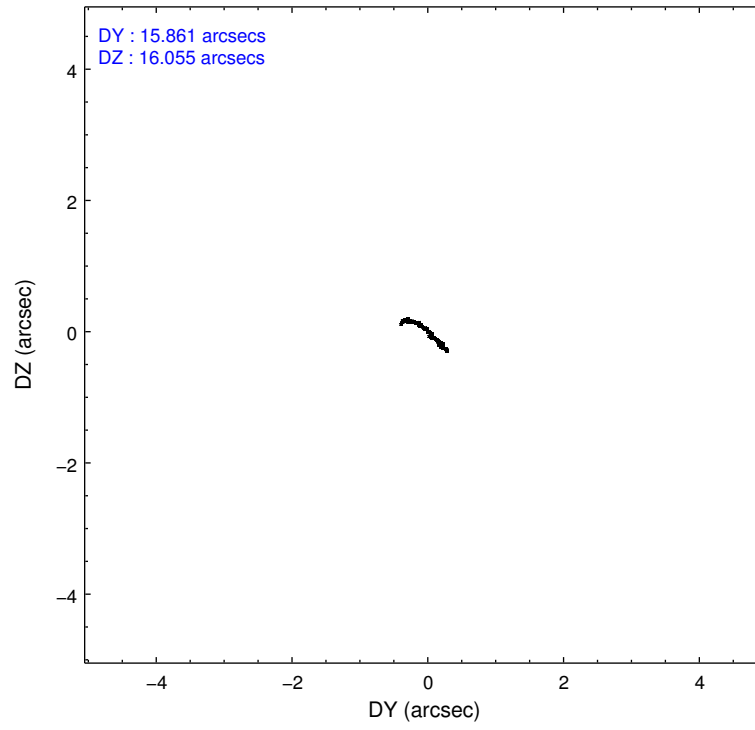
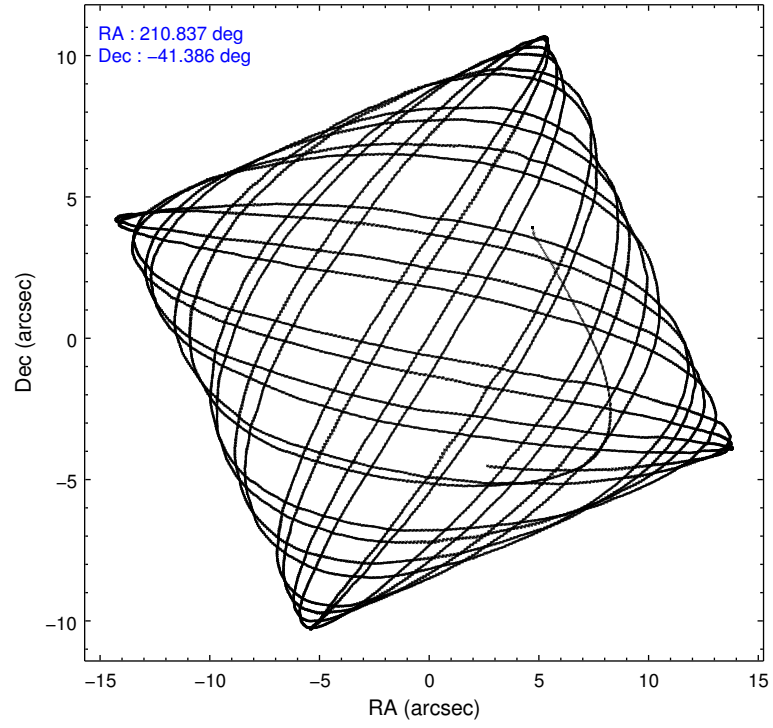
	<b>ccd 7</b>
grade 0 events	1989
	10%
grade 1 events	39
	0%
grade 2 events	2500
	12%
grade 3 events	1522
	7%
grade 4 events	1455
	7%
grade 5 events	1662
	8%
grade 6 events	4108
	21%
grade 7 events	5971
	31%

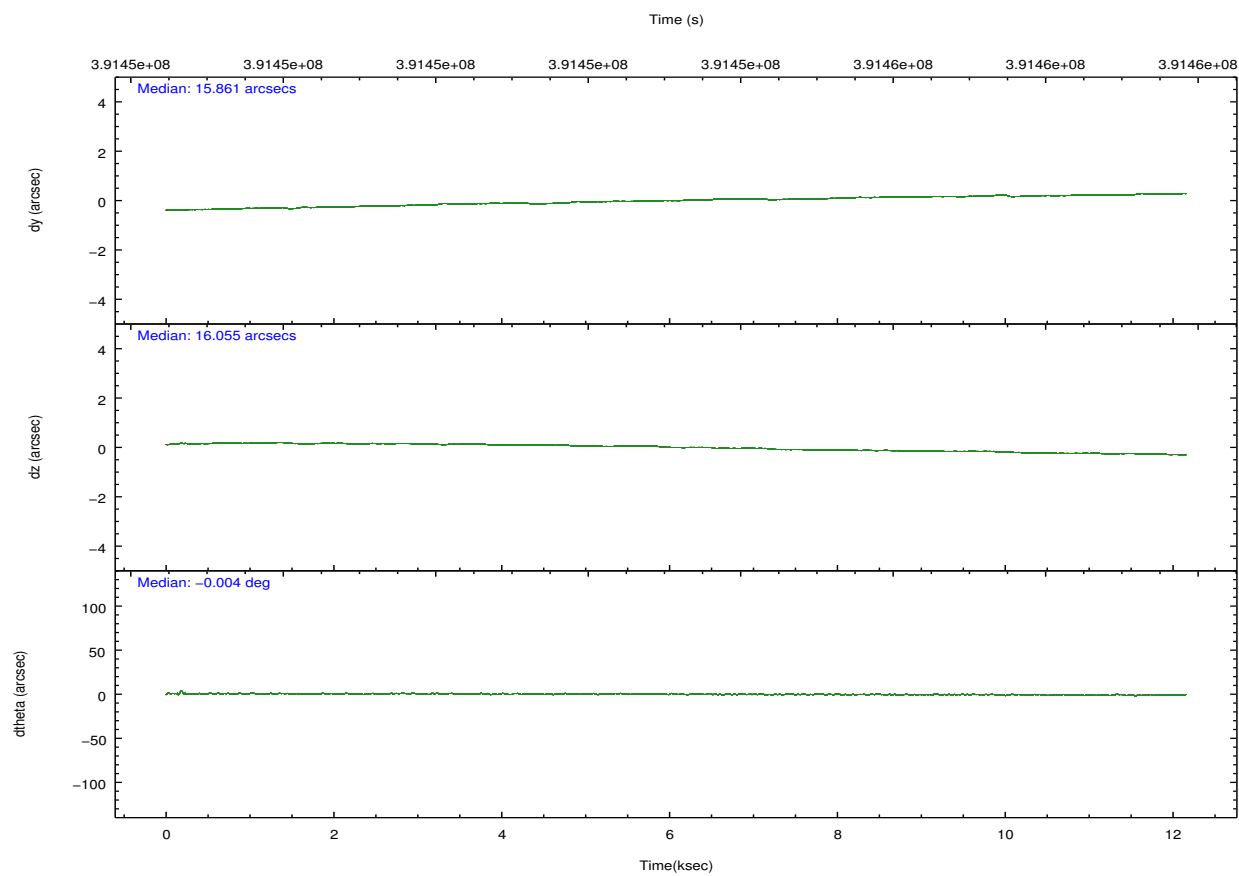
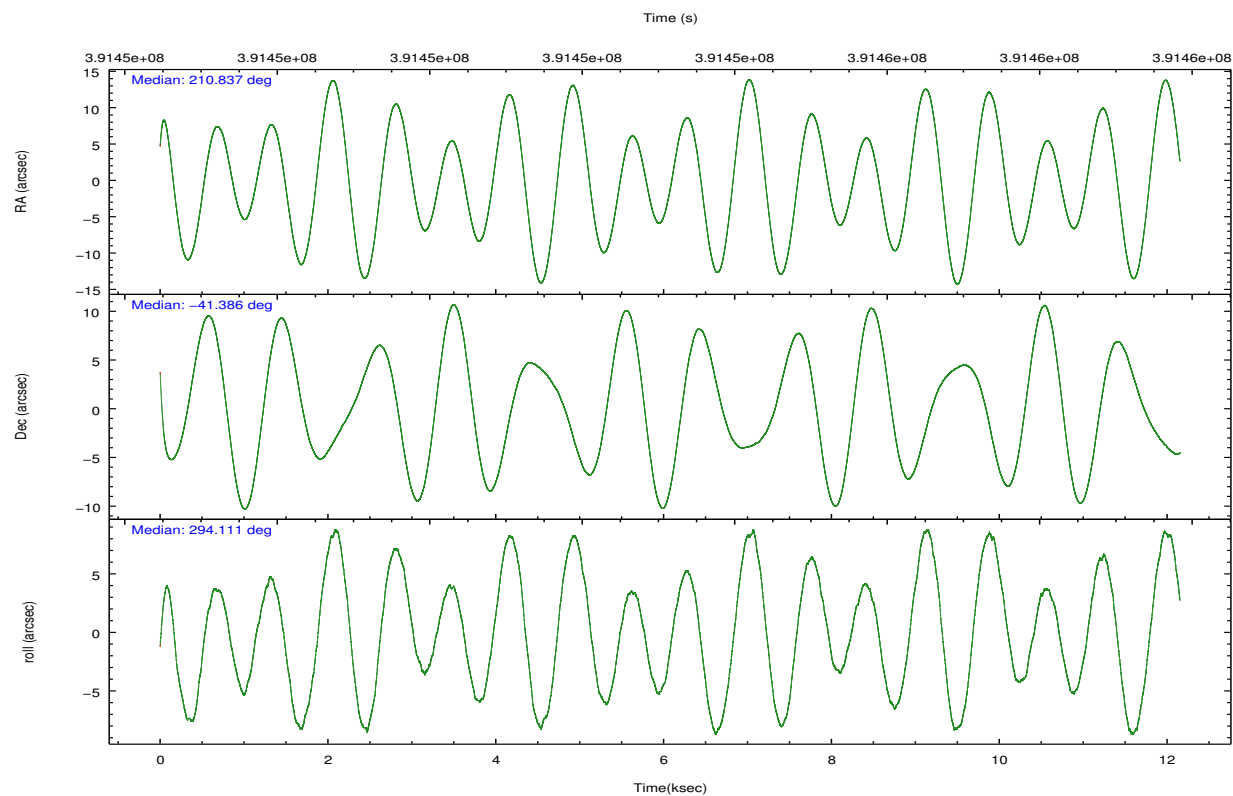


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	210.807208	210.8370449542645	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-41.369915	-41.38564986353734	Subarray start row	449	449
[deg] Pointing Roll	293.940263	294.1166130147669	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	391447225.184000	391445981.58401			
Observation start date	2010-05-28T15:19:19	2010-05-28T14:59:41			
[s] Observation end time (MET)	391459225.184000	391460291.60974			
Observation end date	2010-05-28T18:39:19	2010-05-28T18:58:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



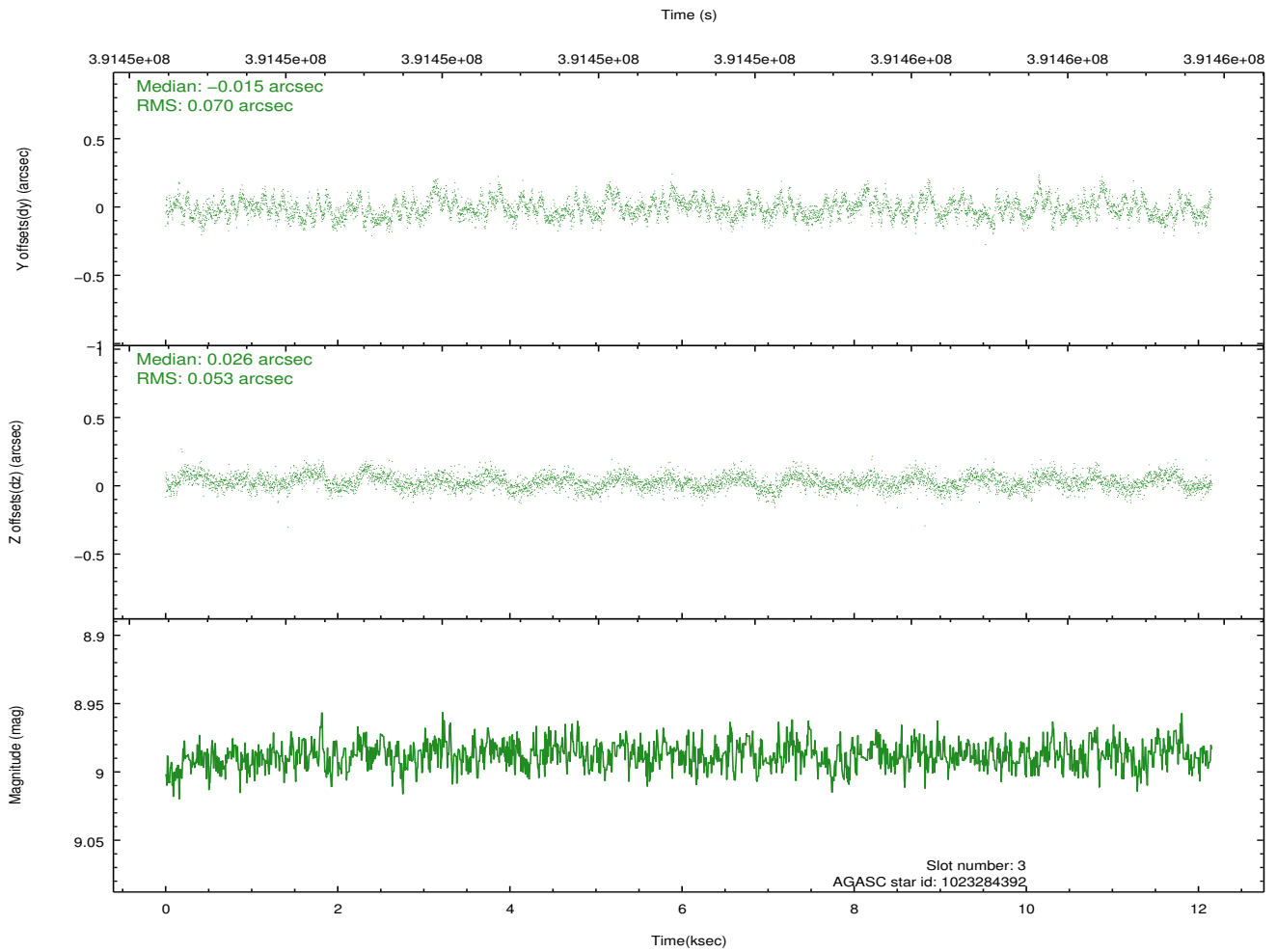
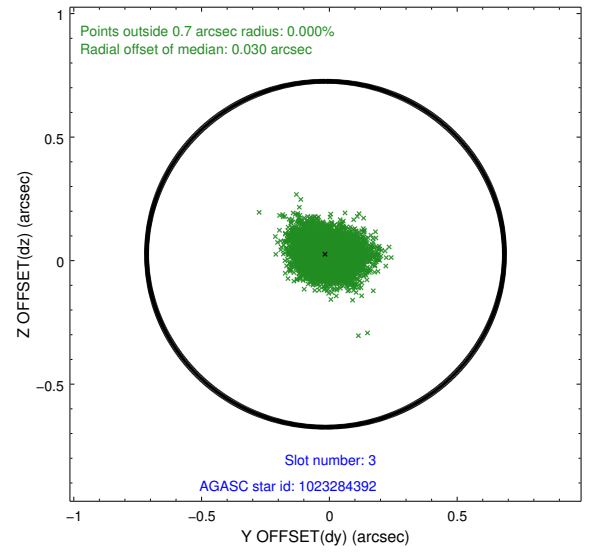
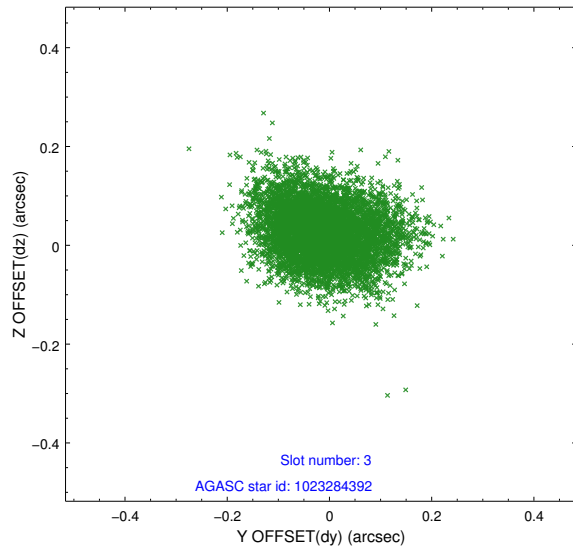


### Slot Statistics

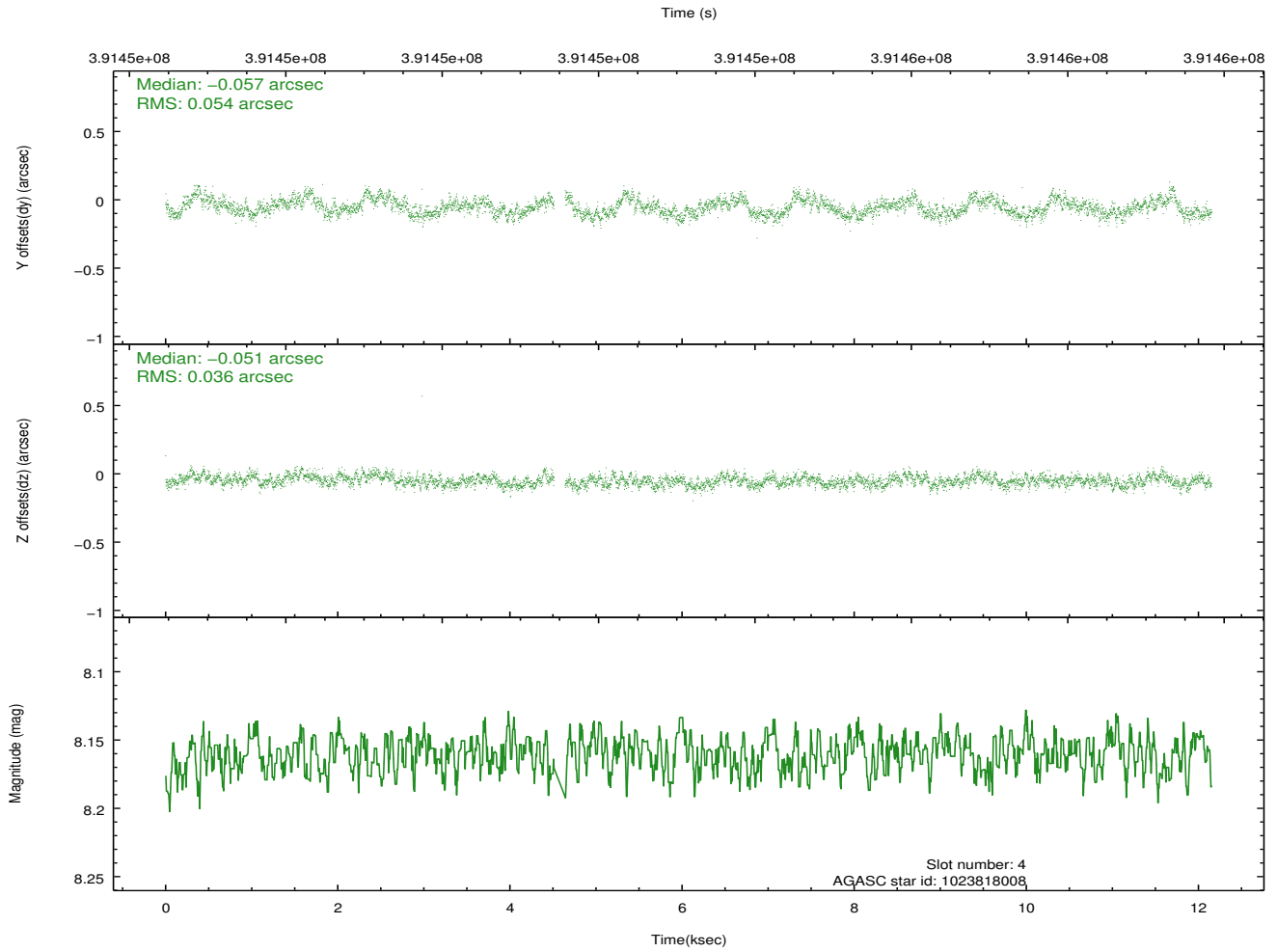
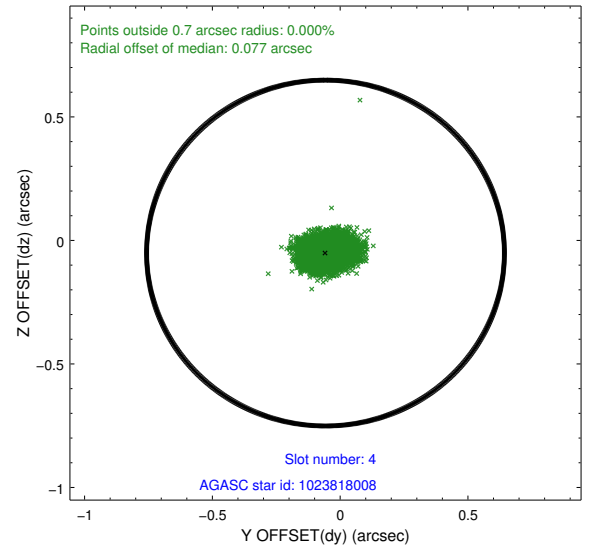
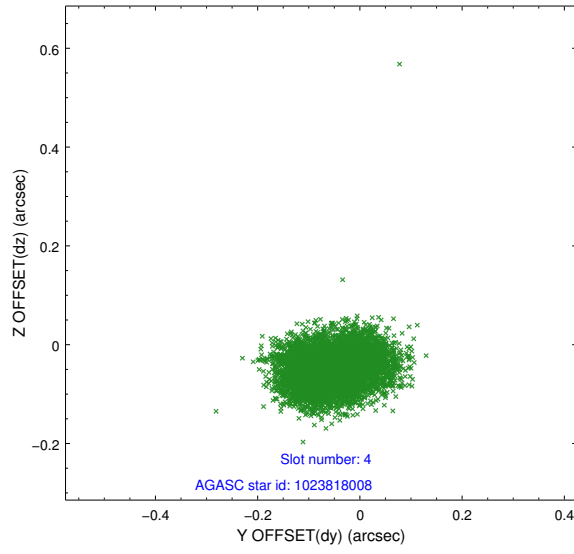
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	2965	-0.091	-0.018	0.008	0.015	0.000000	0.000000	-768.92	-1737.47
1	FID	ACIS-S-4	6.97	2965	0.173	0.049	0.009	0.019	0.000000	0.000000	2144.43	170.66
2	FID	ACIS-S-5	7.00	2965	-0.113	-0.022	0.009	0.023	0.000000	0.000000	-1821.26	164.72
3	GUIDE	1023284392	8.99	5916	-0.015	0.026	0.093	0.152	211.241317	-40.574381	-2133.26	2245.88
4	GUIDE	1023818008	8.16	5865	-0.057	-0.051	0.069	0.112	211.674592	-41.742506	2181.63	1581.04
5	GUIDE	1023824024	7.53	5928	-0.120	0.098	0.056	0.097	210.697872	-41.987484	1914.03	-1169.11
6	GUIDE	1023829016	6.57	5929	-0.003	-0.213	0.098	0.153	210.864452	-41.423345	239.09	62.49
7	GUIDE	1023291688	8.64	5923	0.183	0.142	0.120	0.174	210.168569	-41.185177	-1303.59	-1314.00

## 2.4 Star Slots

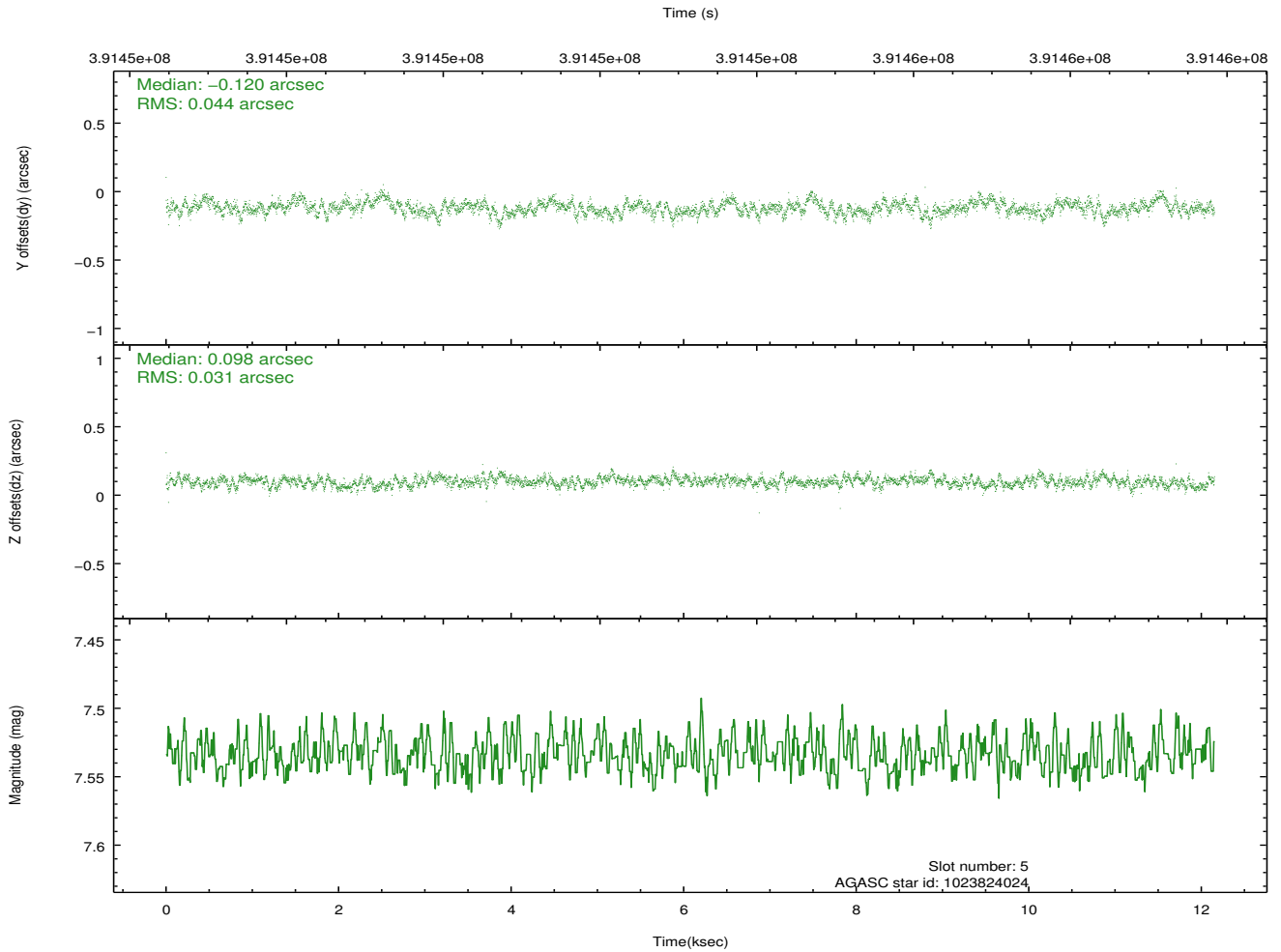
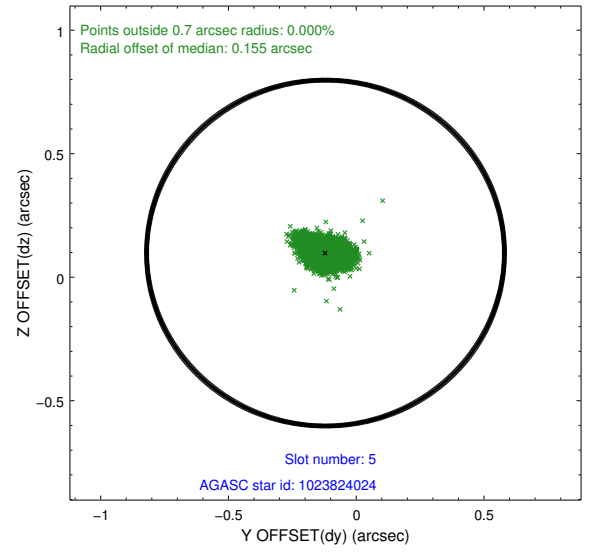
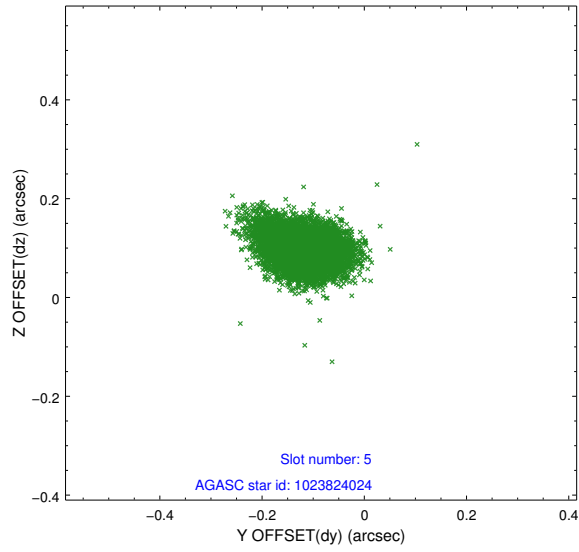
### 2.4.1 Slot 3



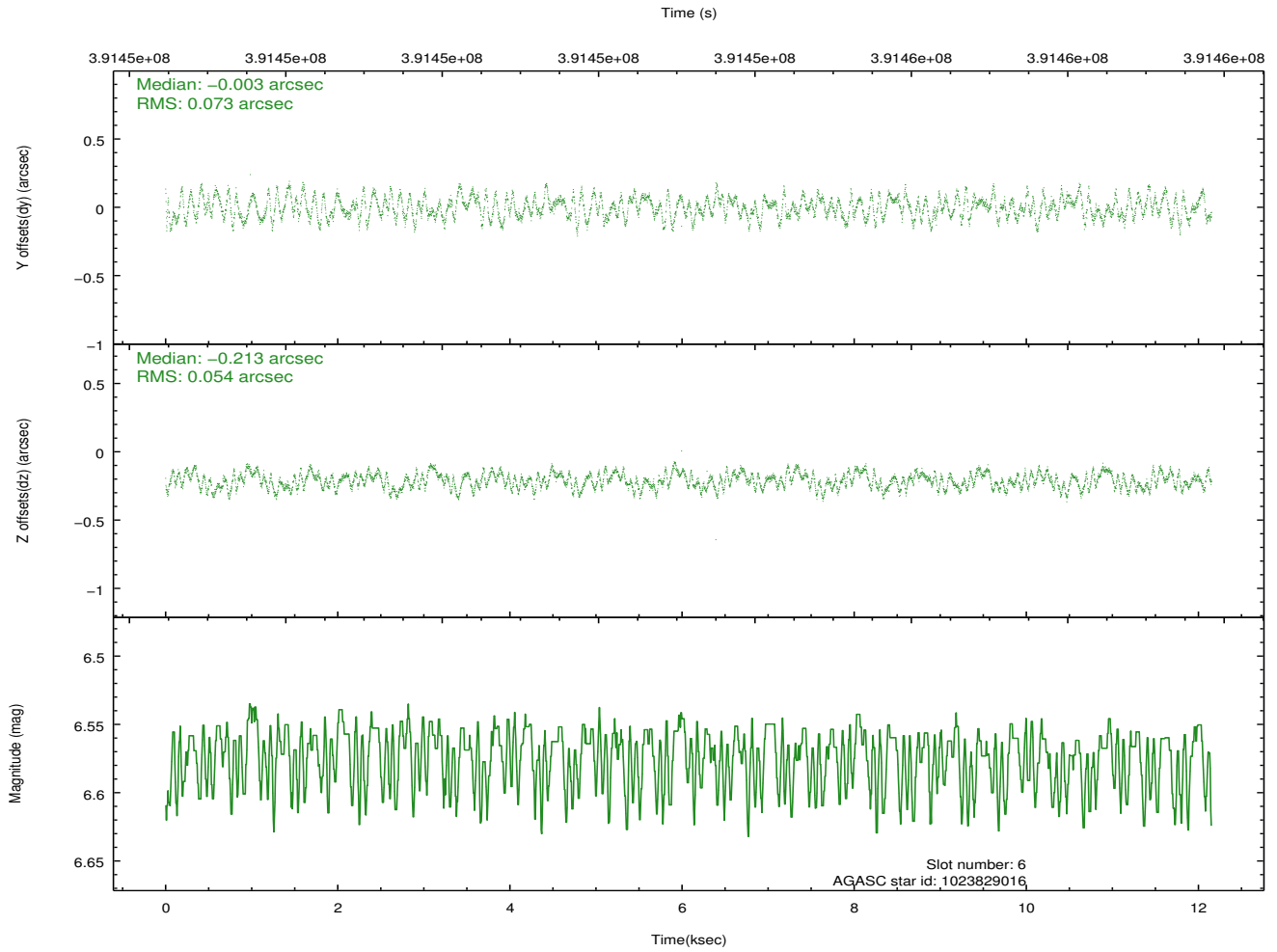
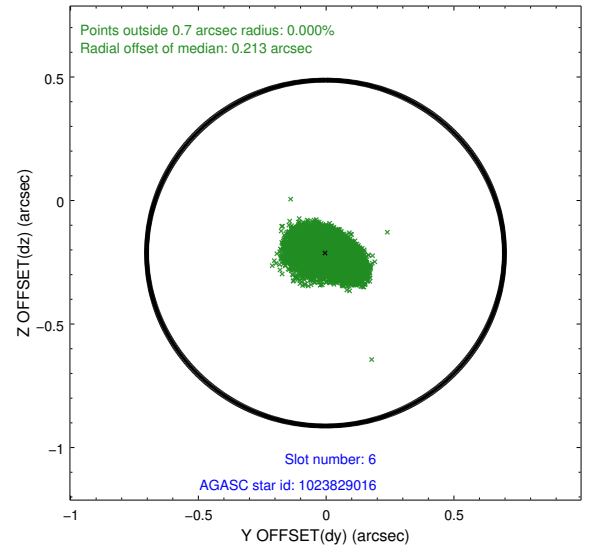
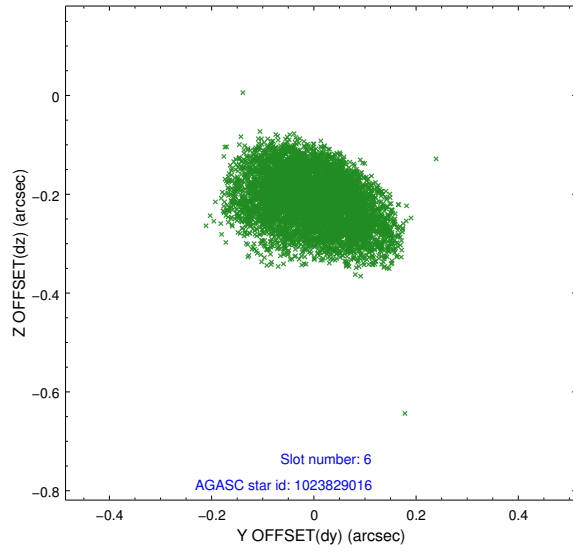
## 2.4.2 Slot 4



### 2.4.3 Slot 5

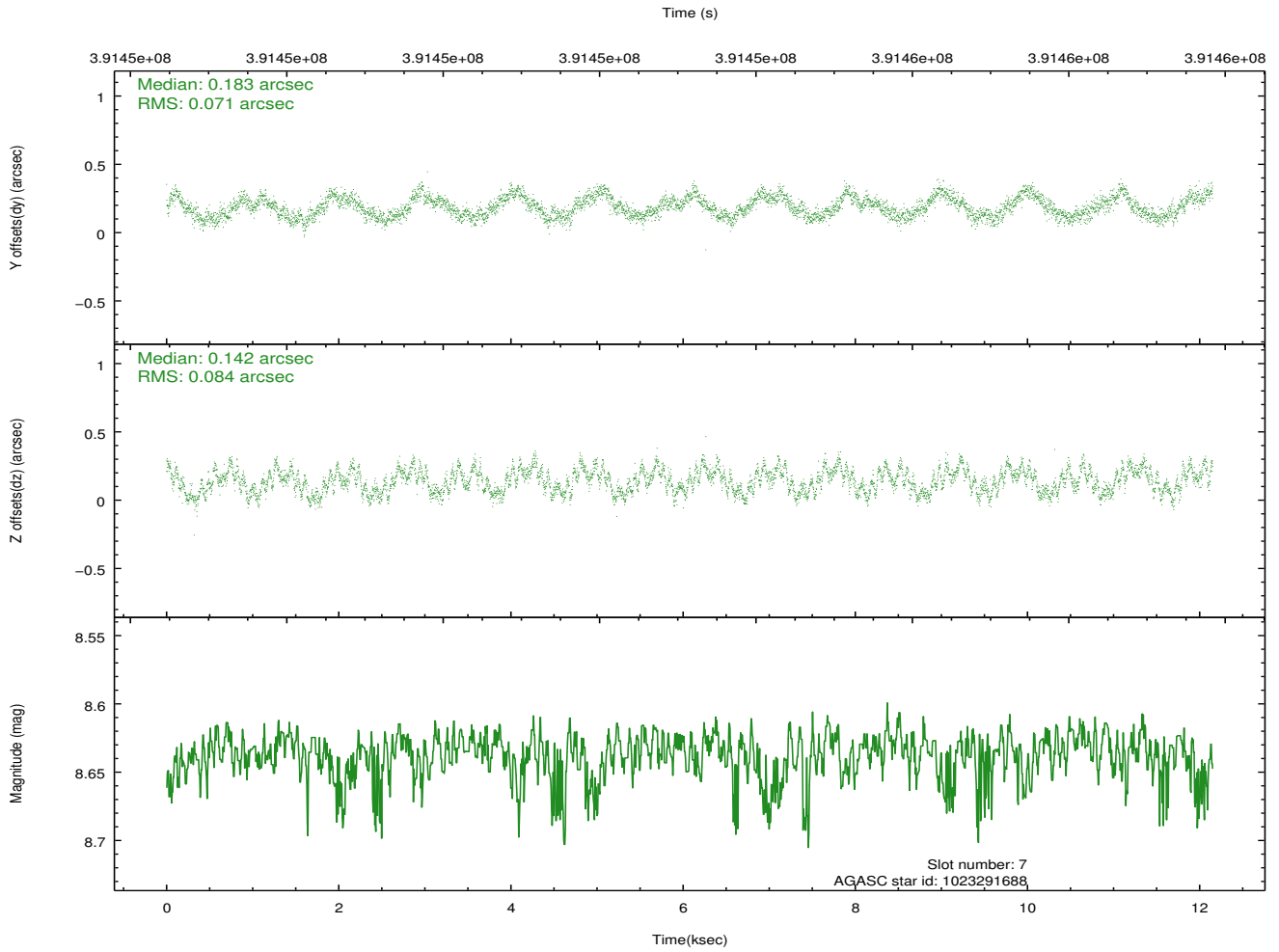
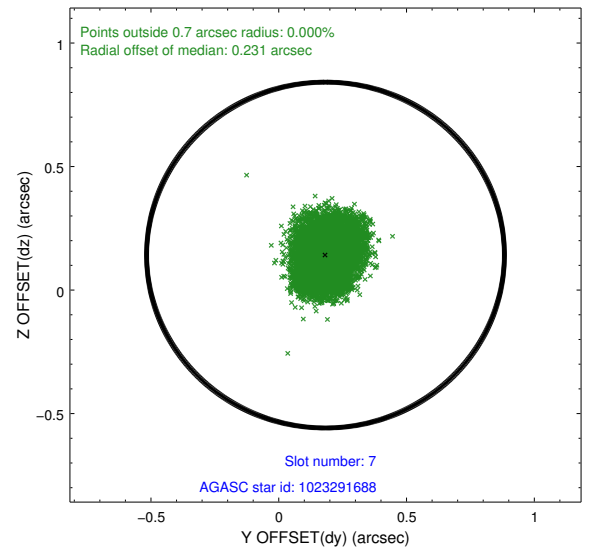
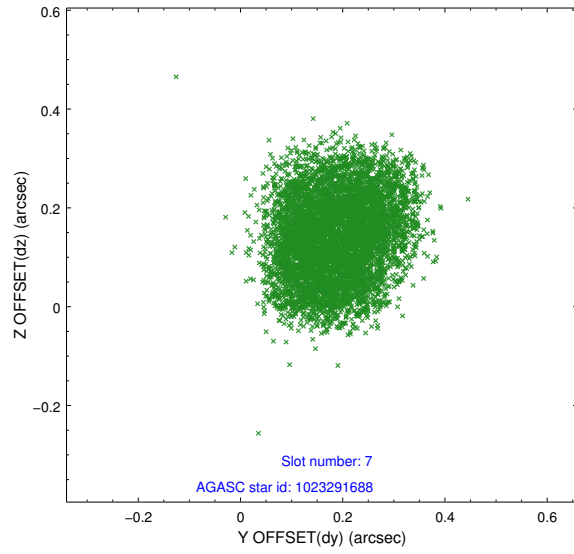


## 2.4.4 Slot 6



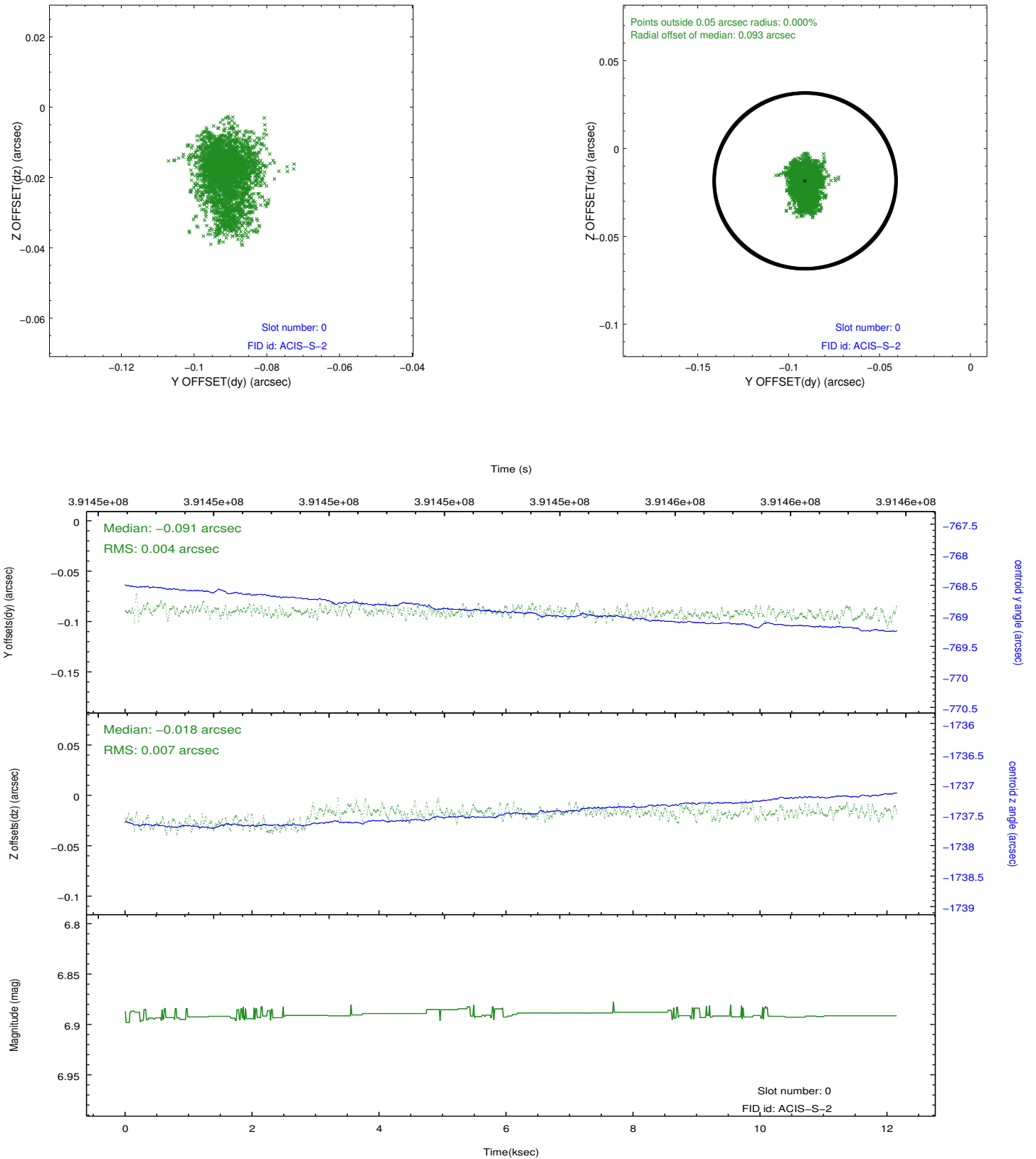


## 2.4.5 Slot 7

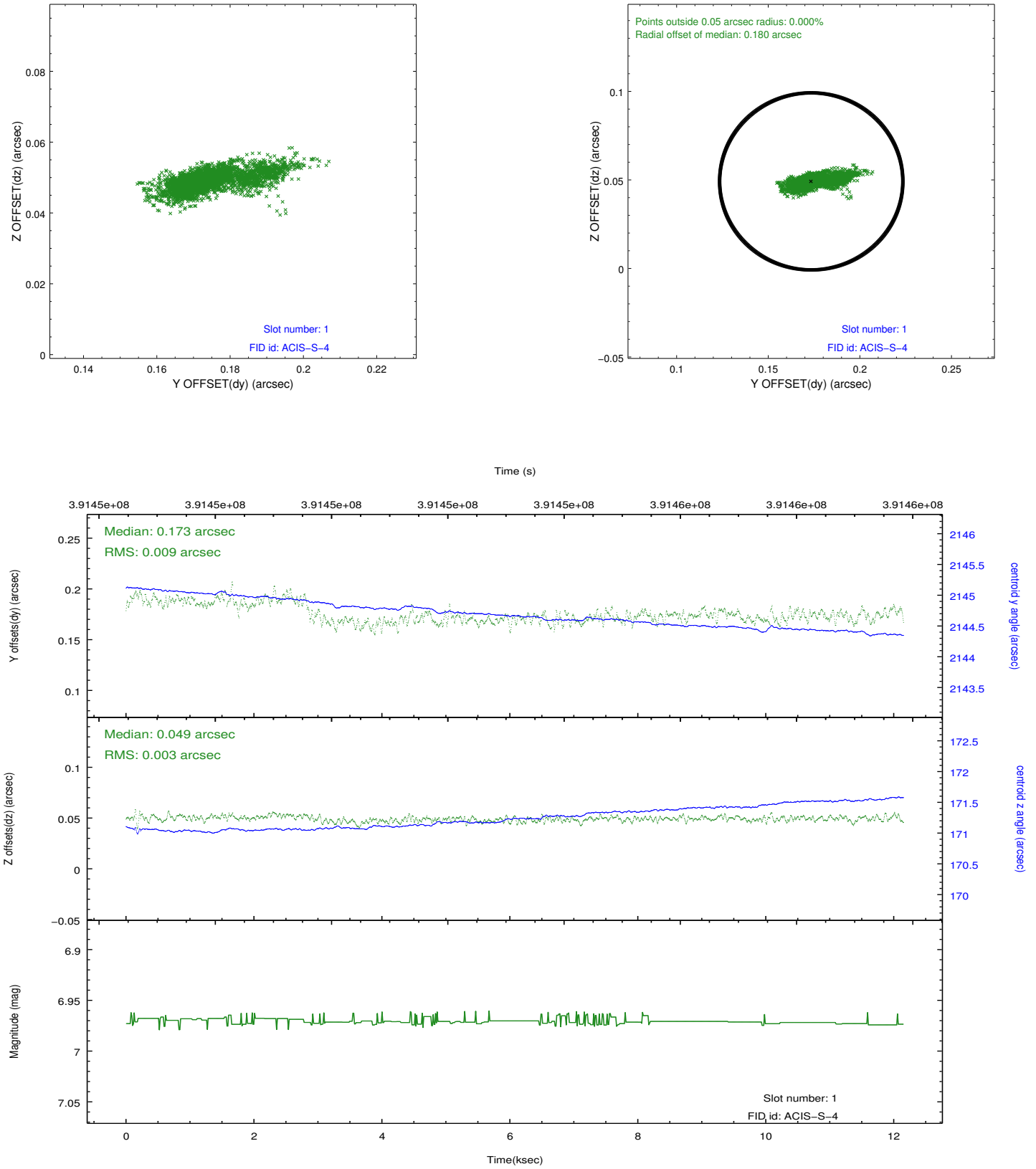


## 2.5 FID Slots

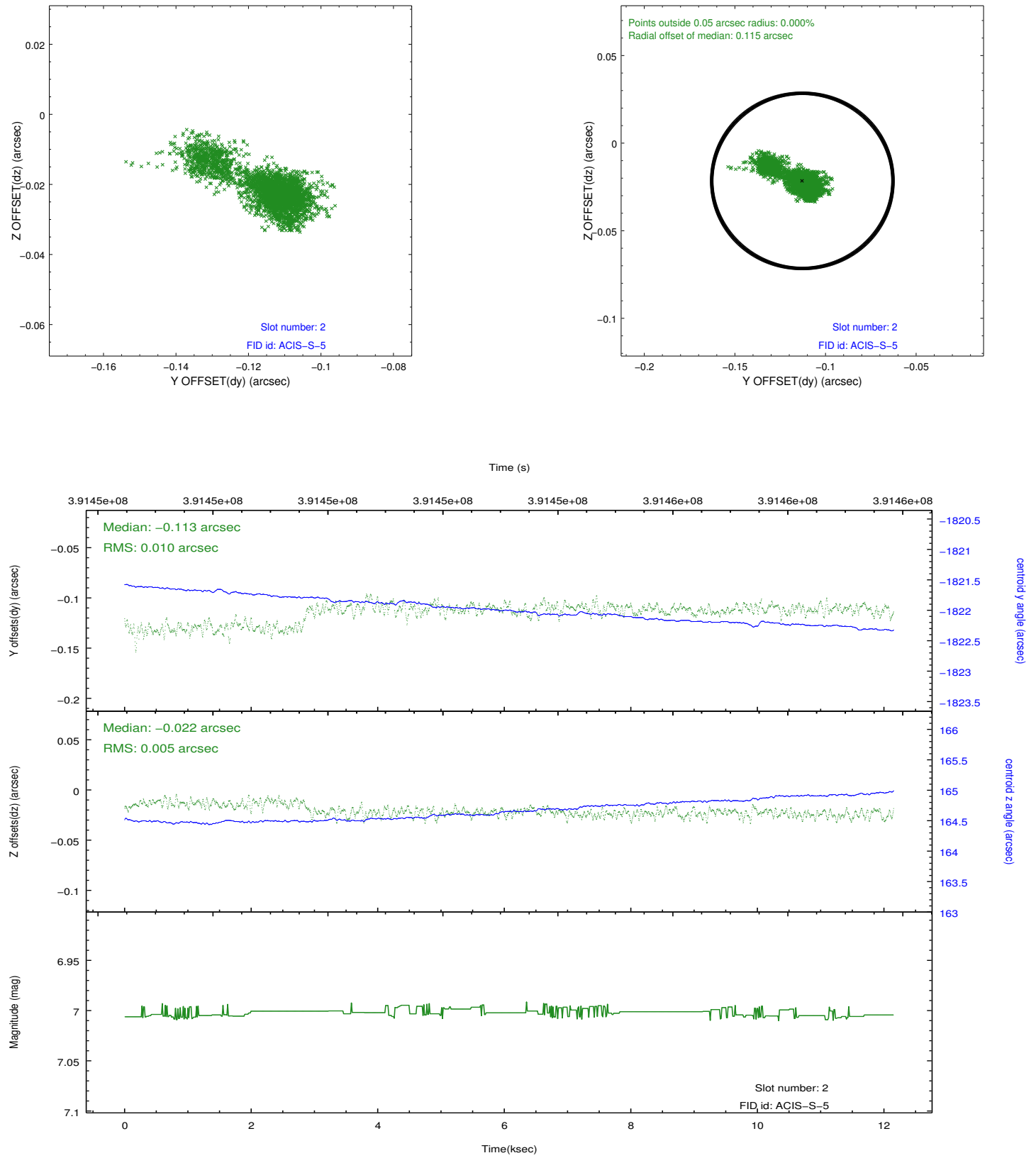
### 2.5.1 Slot 0



## 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)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.009999284148

### A.2 Comments

Joint proposal with HST.