

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7220 - L2 Version 2  
Chandra X-Ray Center

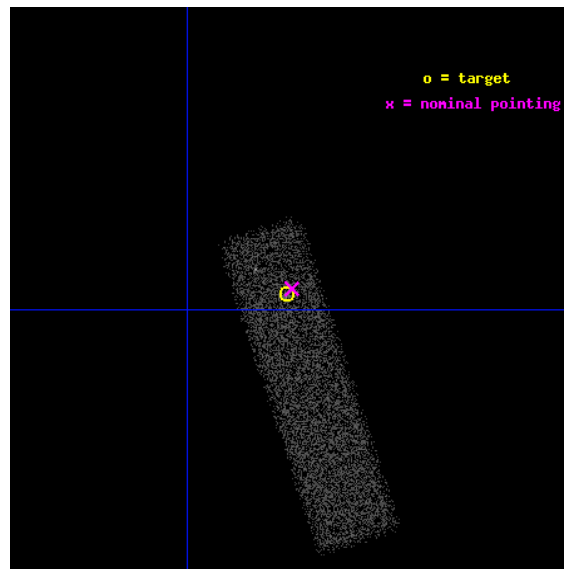
L2 Processing Date : Mar 16 2012

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# 1 Front

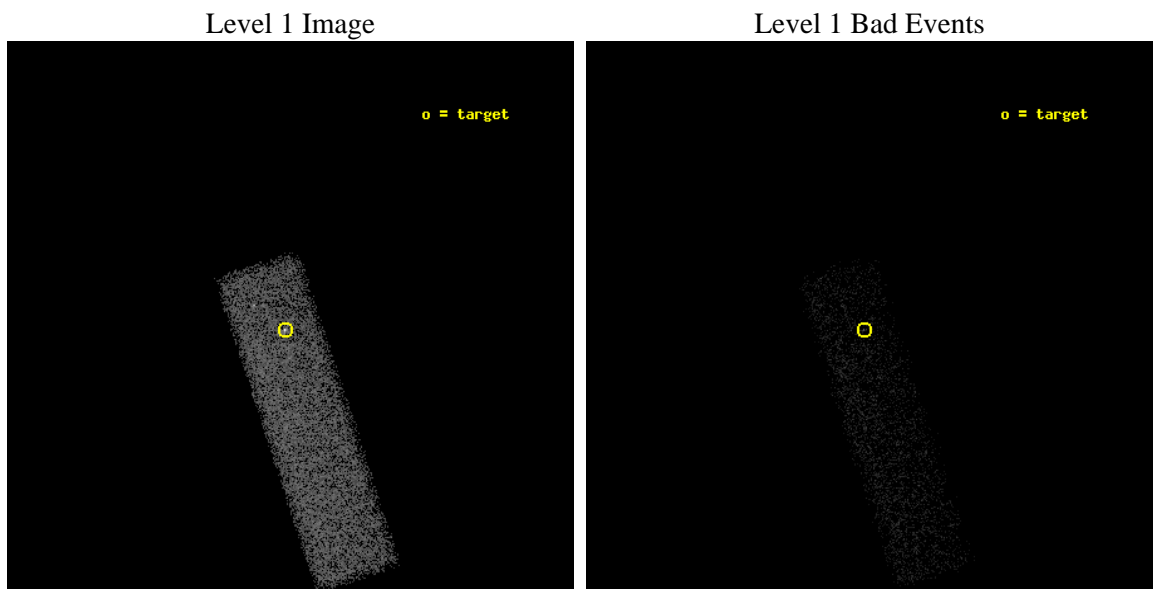
seq_num	701154	Sequence number
obs_id	7220	Observation id
title	A Study of the Physics of Extended Relativistic X-ray Jets, Discovered in our Chandra Survey	Proposal title
observer	Dr. Jonathan Gelbord	Principal investigator
object	PKS 0920-397	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.693333	Observer's specified target RA [deg]
dec_targ	-39.993083	Observer's specified target Dec [deg]
ra_nom	140.69046153456	Nominal RA [deg]
dec_nom	-39.990990270195	Nominal Dec [deg]
roll_nom	71.654774972059	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10152.800151289	Sum of GTIs [s]
livetime	9657.3767252816	Livetime [s]
ontime7	10152.800151289	Sum of GTIs [s]
l2events	13184	Number of level 2 events



## 2 OBI

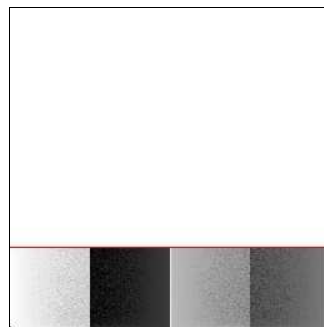
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10152.800151289	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime7	10152.800151289	Sum of GTIs [s]
date	2012-03-17T01:24:26	Date and time of file creation	l1events	31340	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	31340
rejected events	17862
rejected %	56%

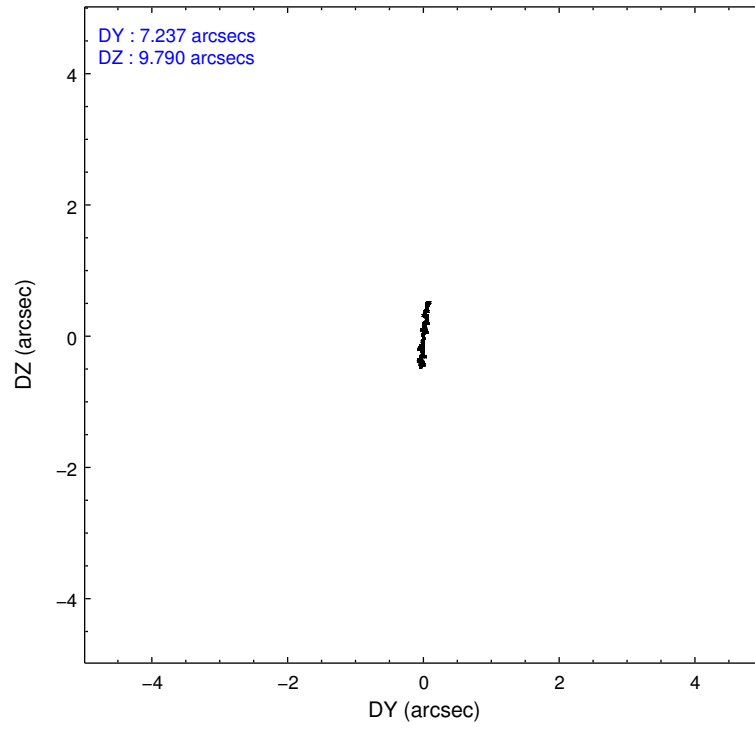
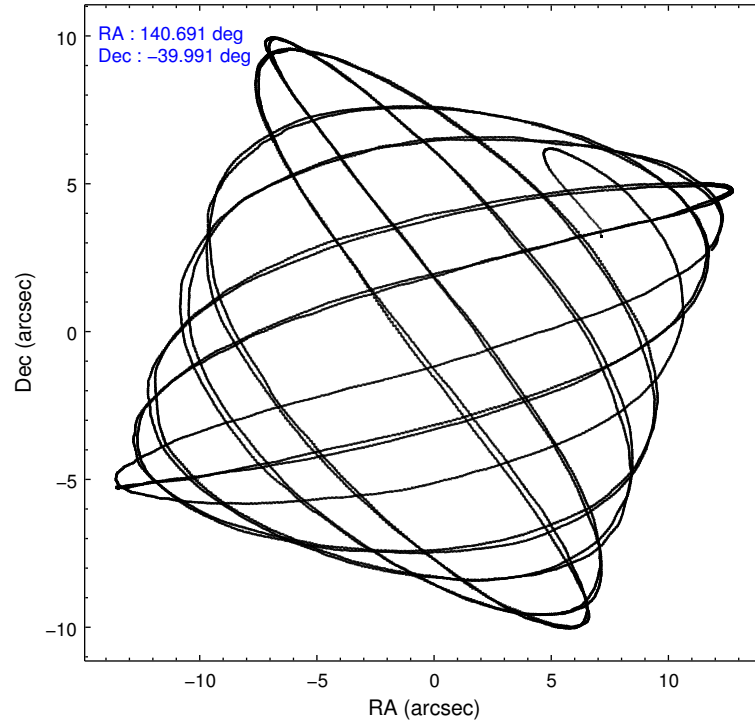
	<b>ccd 7</b>
grade 0 events	1451
	4%
grade 1 events	29
	0%
grade 2 events	2926
	9%
grade 3 events	1590
	5%
grade 4 events	1557
	4%
grade 5 events	2721
	8%
grade 6 events	7067
	22%
grade 7 events	13999
	44%

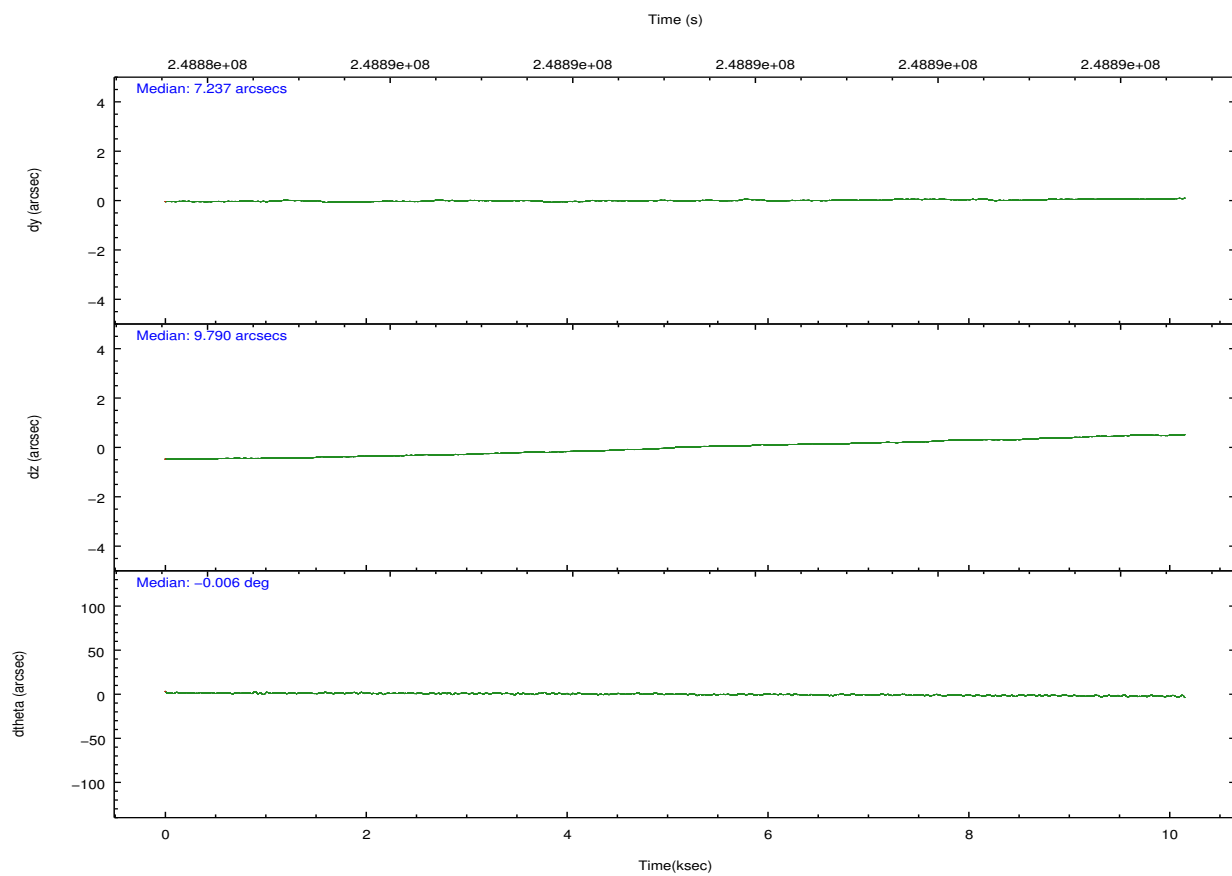
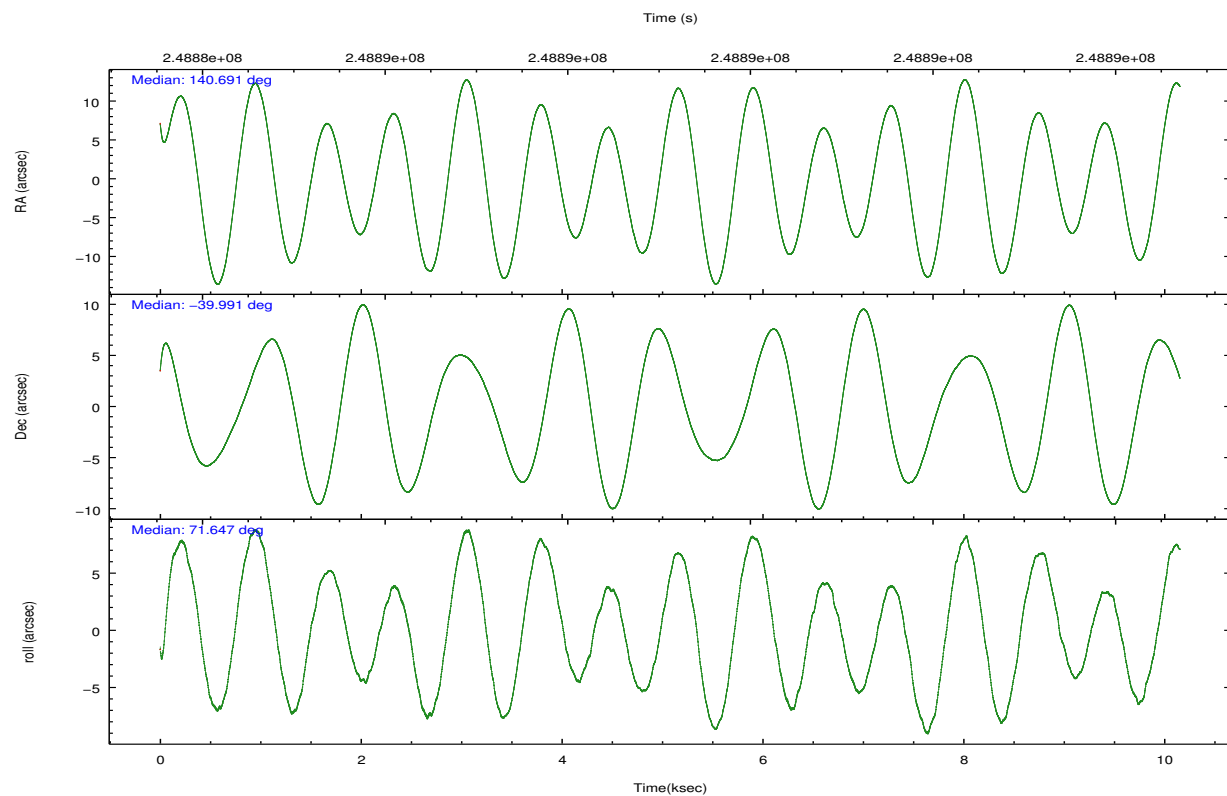


## 2.2 Compared Parameters

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	140.698069	140.6904615345608	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-40.017623	-39.99099027019517	Subarray start row	1	1
[deg] Pointing Roll	71.503051	71.65477497205913	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-179.932523	-179.9244029796336			
[mm] SIM translation stage offset	-10.2	-10.2081196033742			
[s] Observation start time (MET)	248884200.184000	248883124.70048			
Observation start date	2005-11-20T14:28:56	2005-11-20T14:12:04			
[s] Observation end time (MET)	248894200.184000	248894959.86353			
Observation end date	2005-11-20T17:15:36	2005-11-20T17:29:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



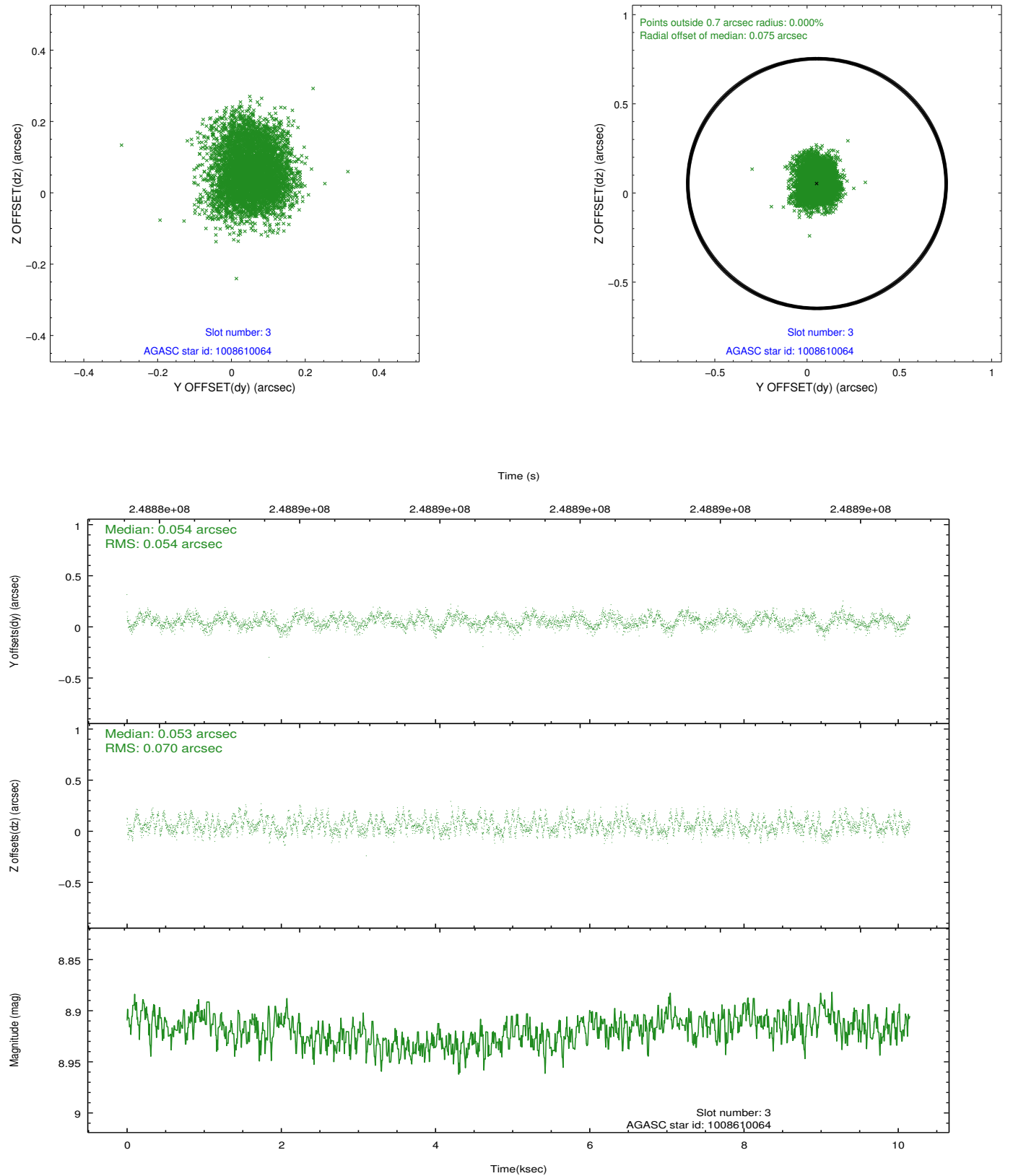


### Slot Statistics

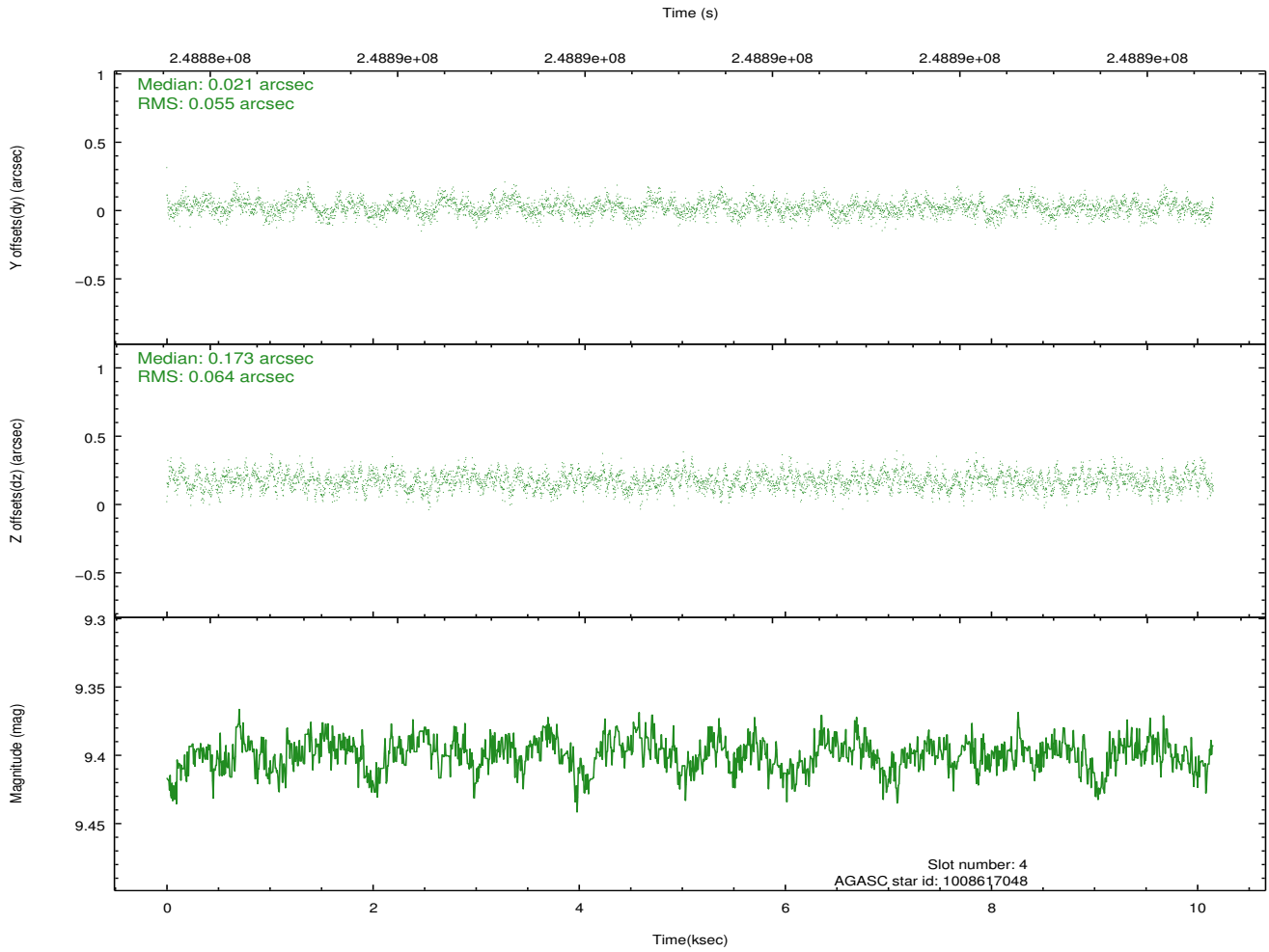
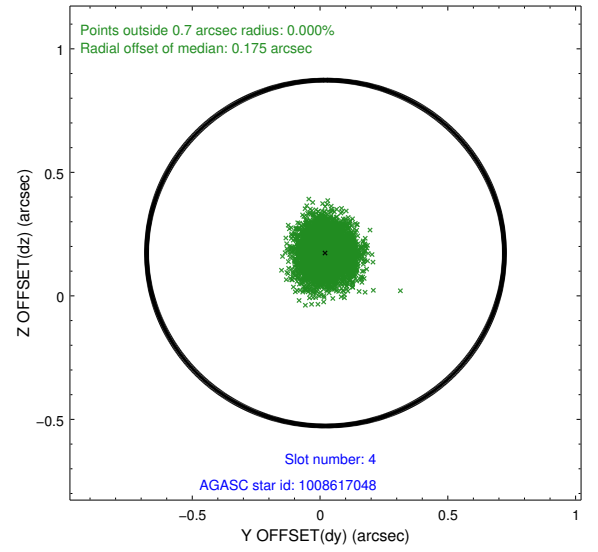
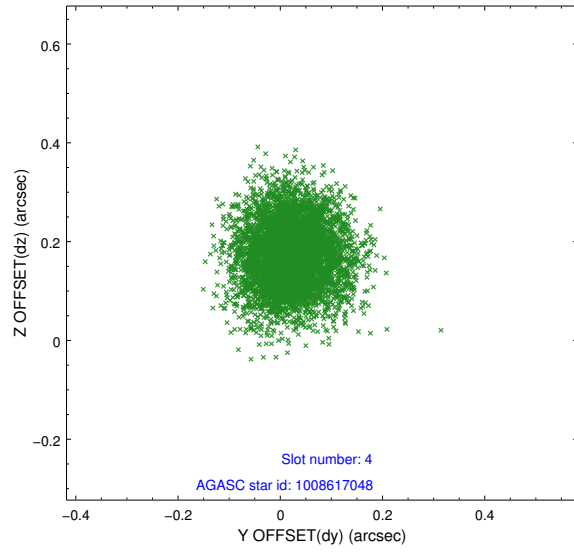
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	2477	0.039	0.179	0.010	0.017	0.000000	0.000000	936.84	-1936.64
1	FID	ACIS-S-2	7.08	2477	-0.167	-0.172	0.017	0.029	0.000000	0.000000	-758.97	-1942.18
2	FID	ACIS-S-6	7.42	2477	0.108	-0.003	0.014	0.023	0.000000	0.000000	402.32	603.87
3	GUIDE	1008610064	8.92	4953	0.054	0.053	0.095	0.151	141.362695	-40.226184	-138.57	-1972.16
4	GUIDE	1008617048	9.40	4954	0.021	0.173	0.090	0.144	141.260770	-40.731902	-1955.92	-2273.28
5	GUIDE	1008631096	7.54	4954	-0.151	-0.213	0.055	0.087	140.384695	-39.696088	820.26	1189.90
6	GUIDE	1006915600	8.62	4953	0.044	-0.255	0.078	0.123	139.877240	-40.473529	-2279.42	1607.93
7	GUIDE	1008625256	9.62	4946	0.032	0.247	0.130	0.211	141.344731	-40.676760	-1696.43	-2428.55

## 2.4 Star Slots

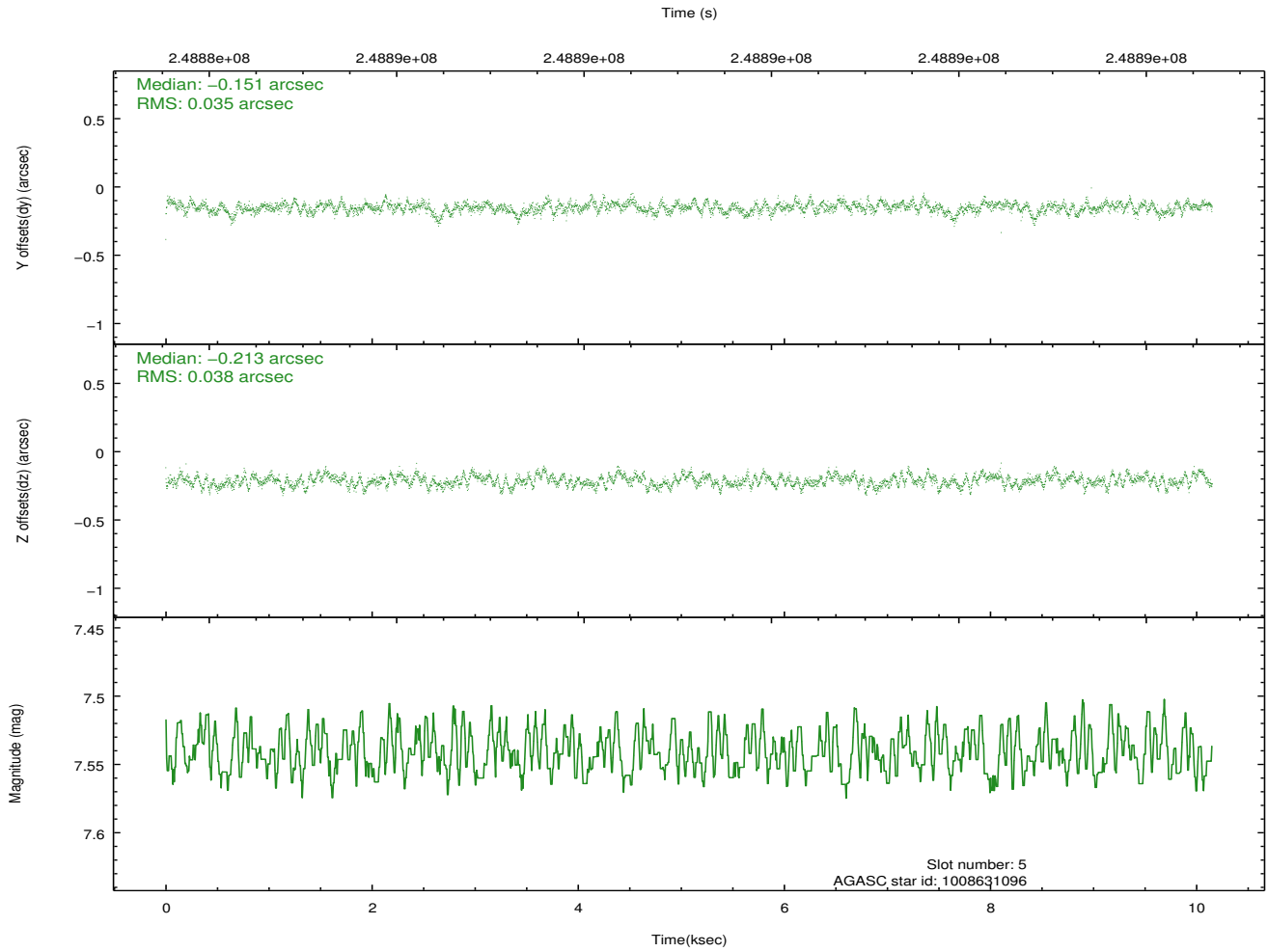
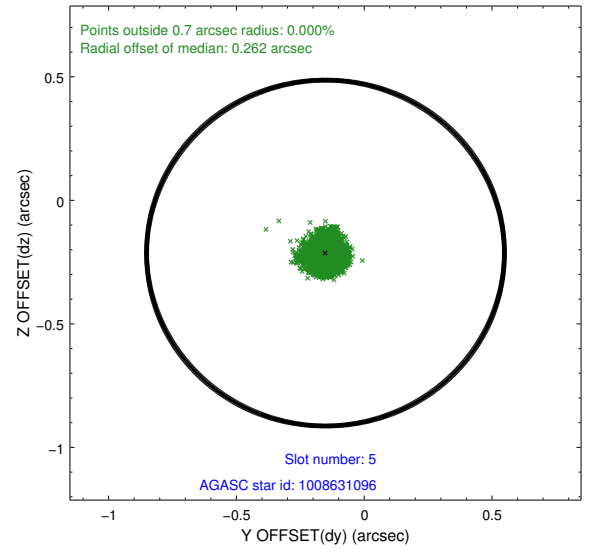
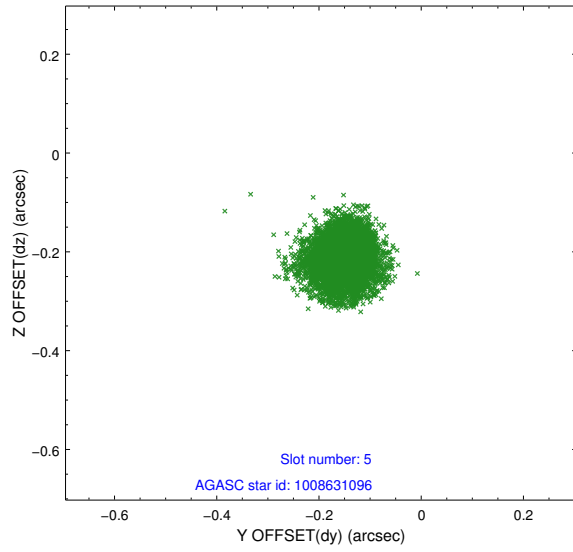
### 2.4.1 Slot 3



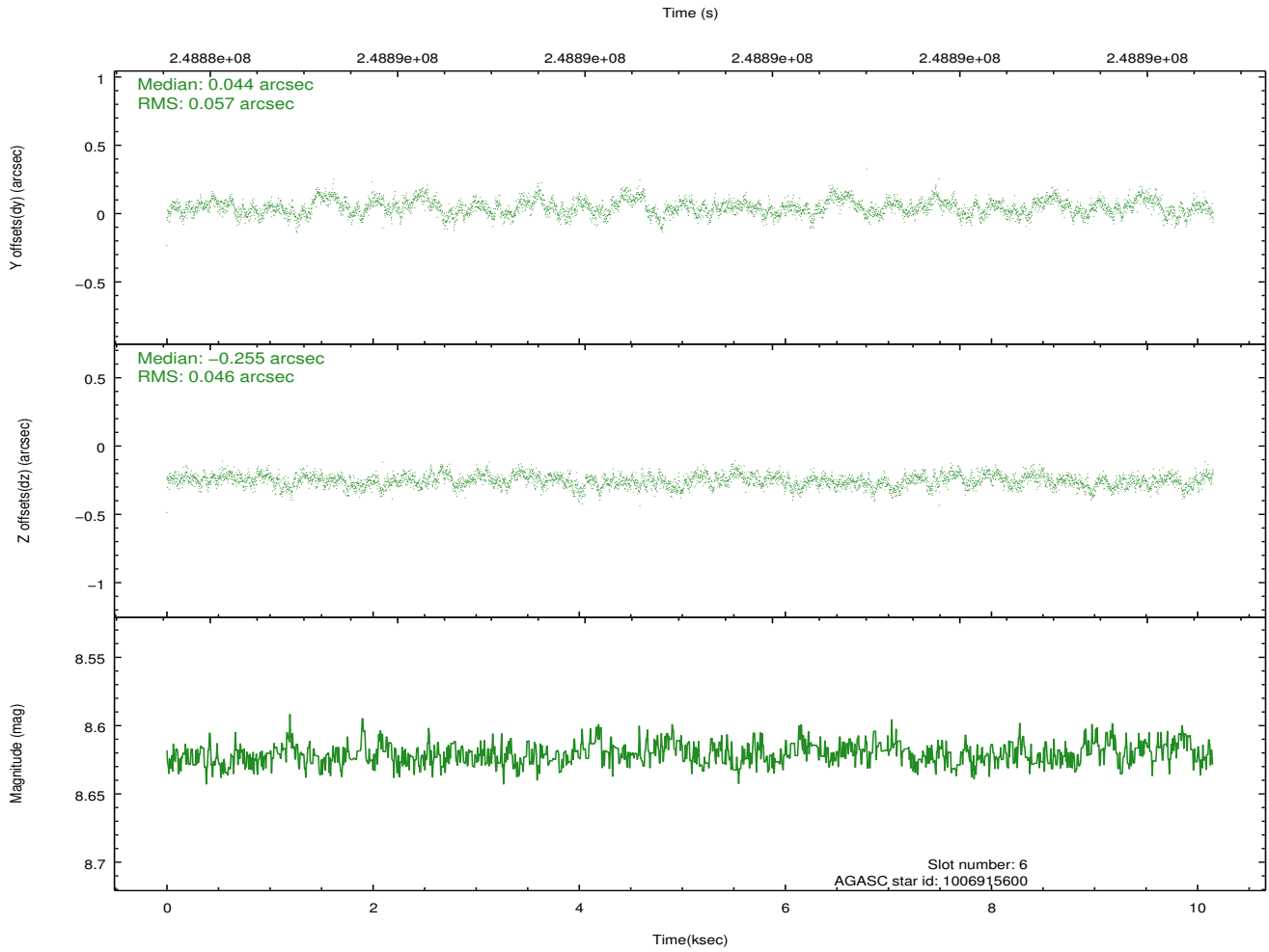
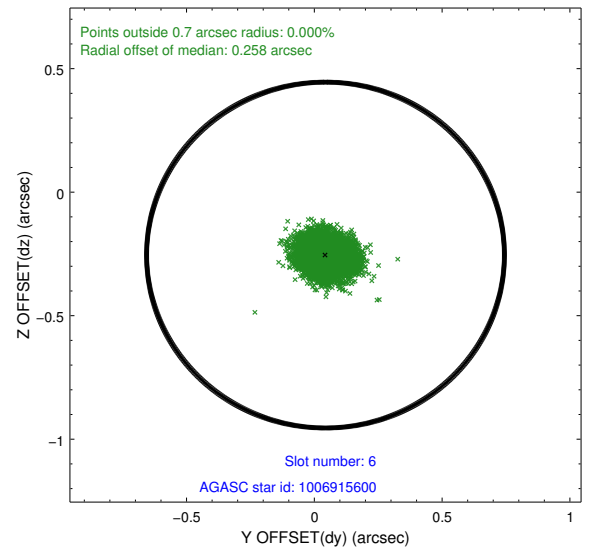
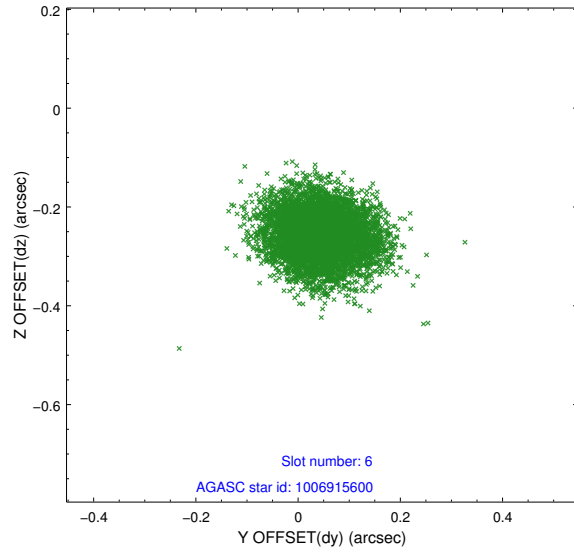
## 2.4.2 Slot 4



### 2.4.3 Slot 5

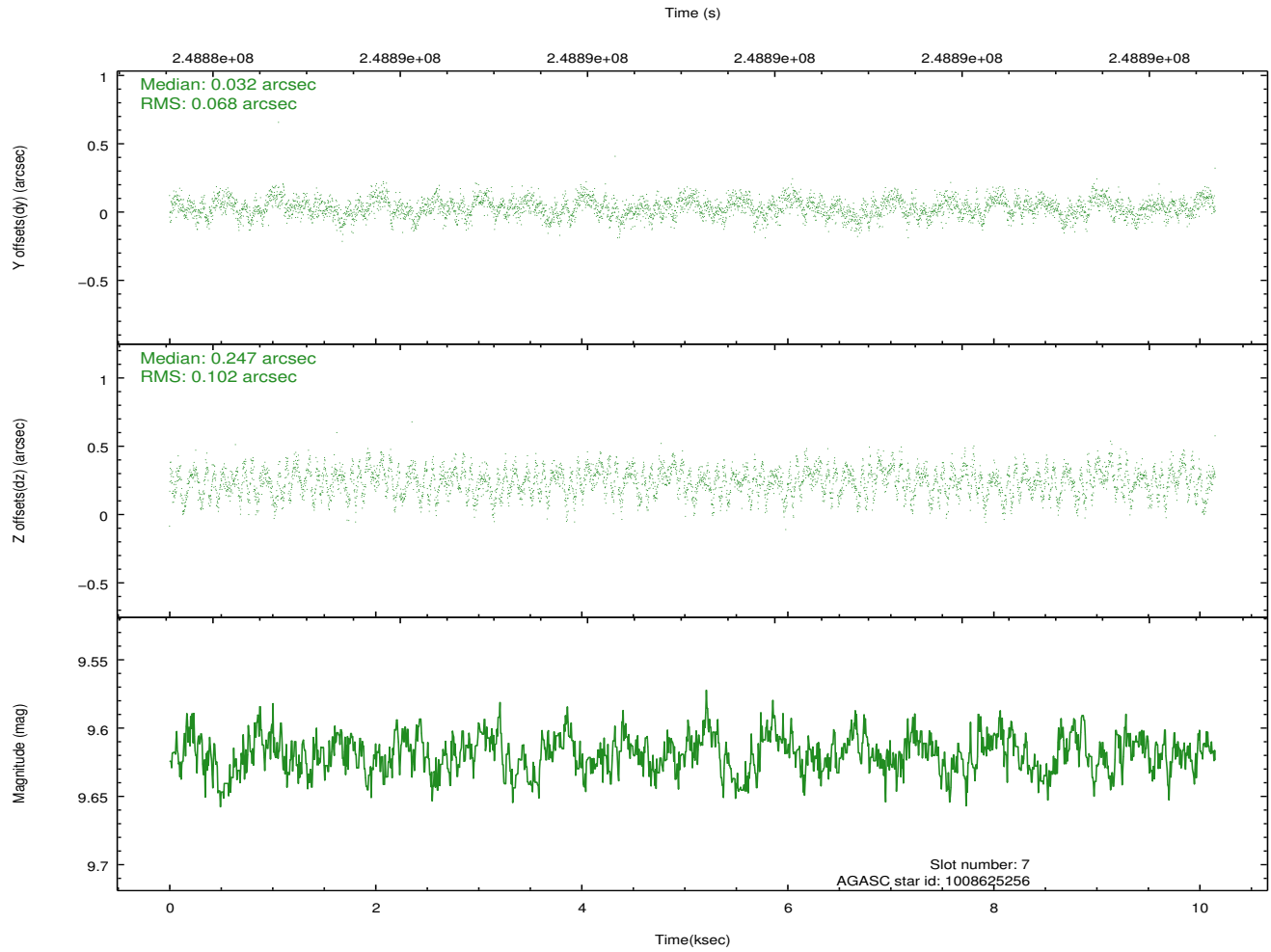
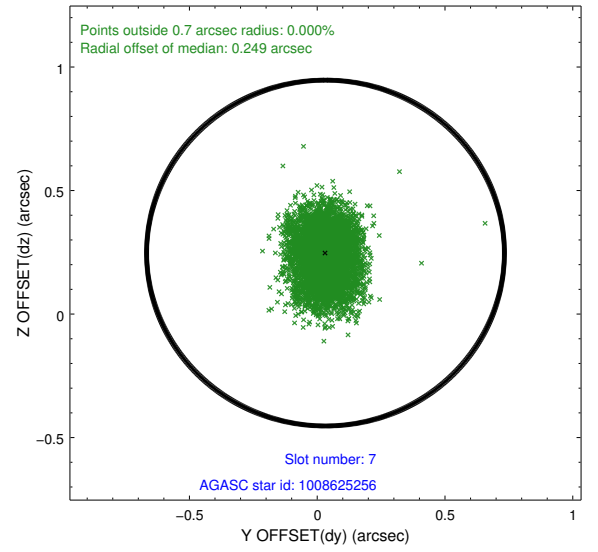
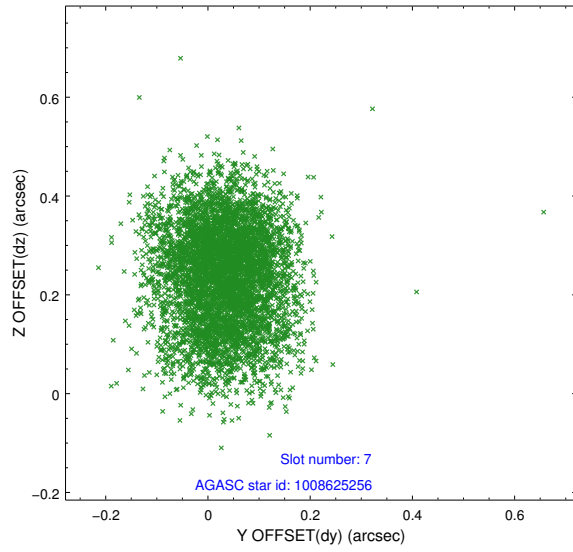


## 2.4.4 Slot 6



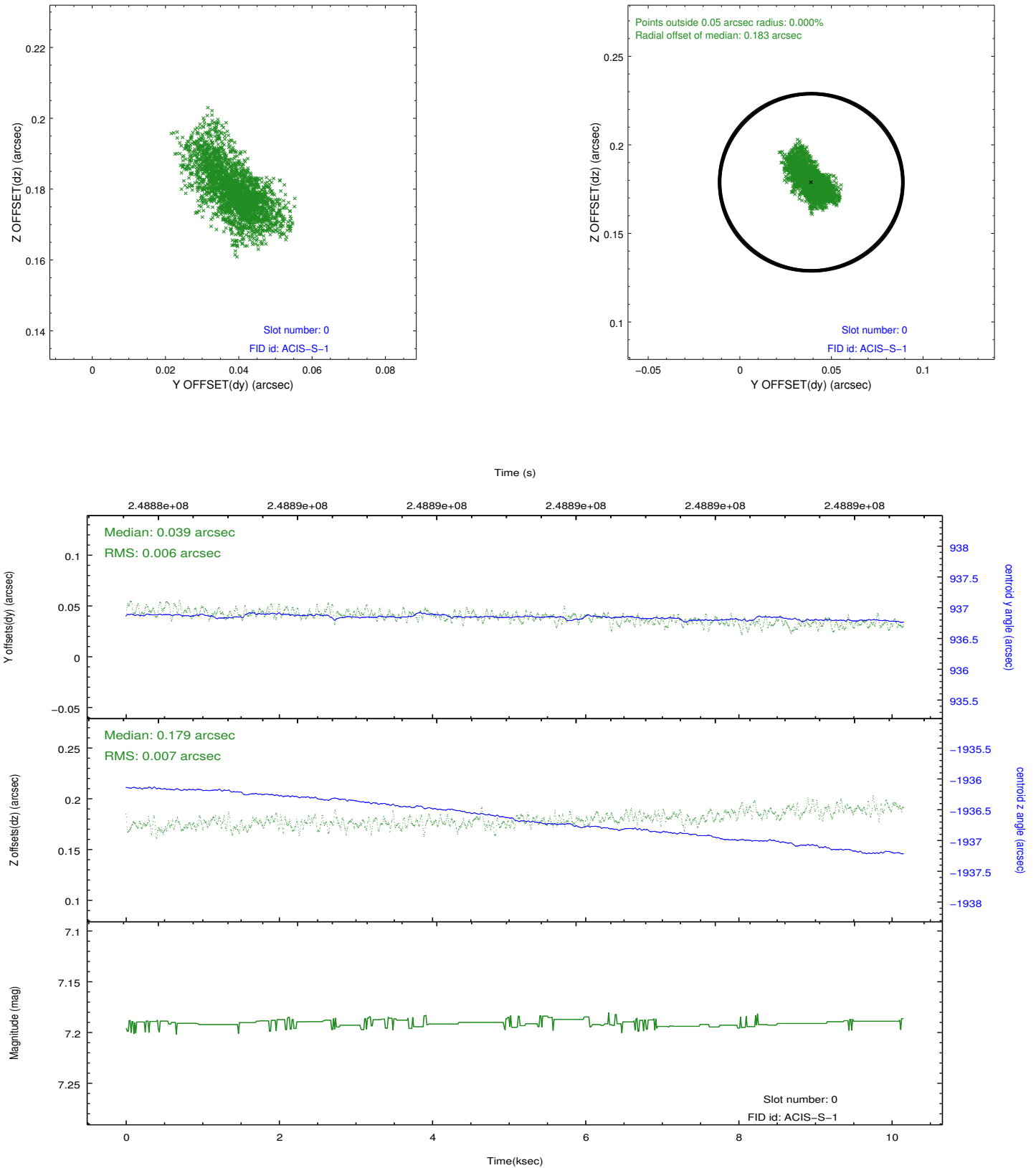


## 2.4.5 Slot 7

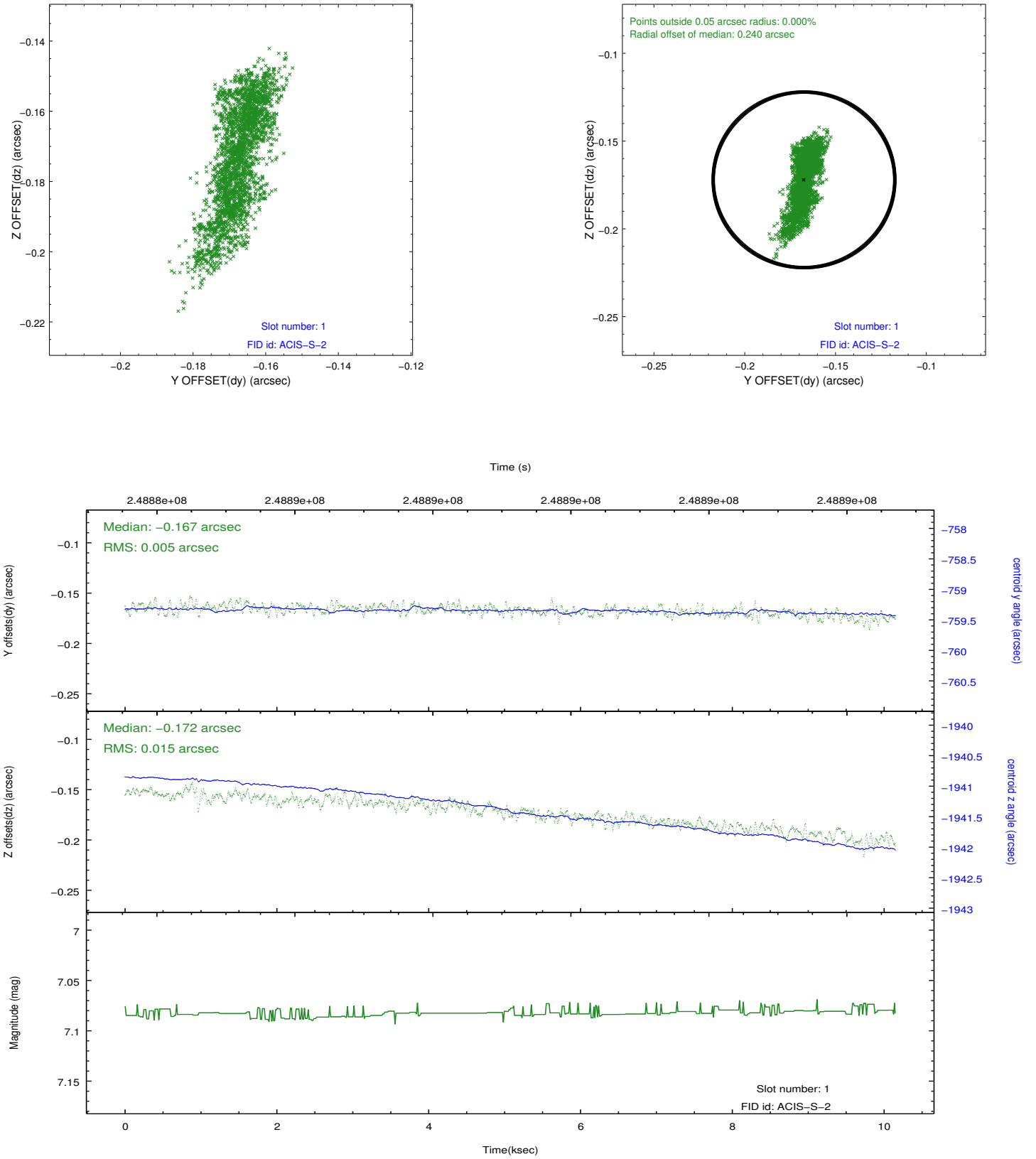


## 2.5 FID Slots

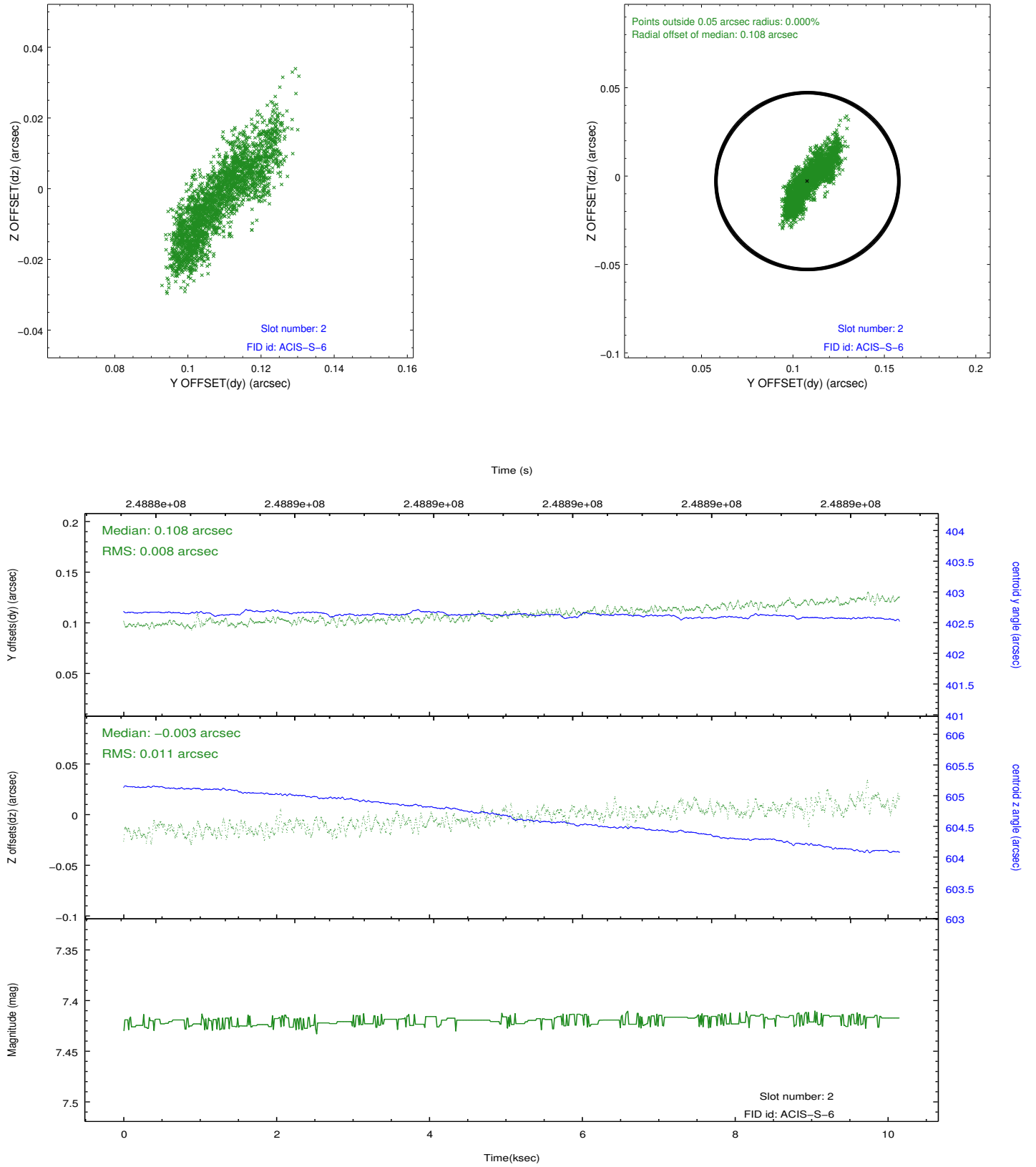
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1528

## A.2 Comments

Joint proposal with HST.

Roll preference met.