

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2133 - L2 Version 3  
Chandra X-Ray Center

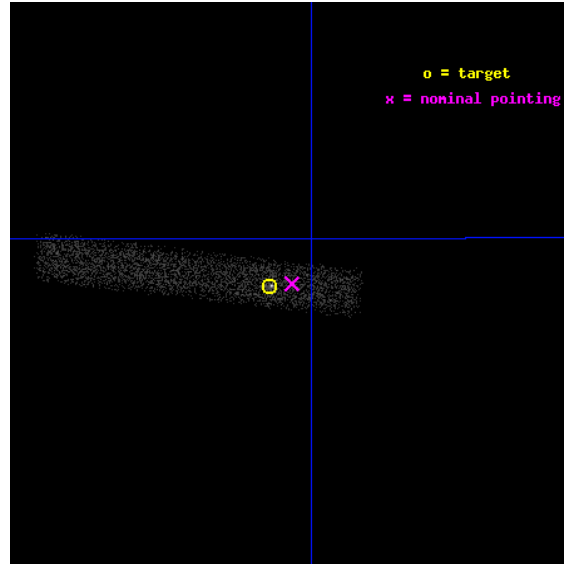
L2 Processing Date : Sep 6 2012

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# 1 Front

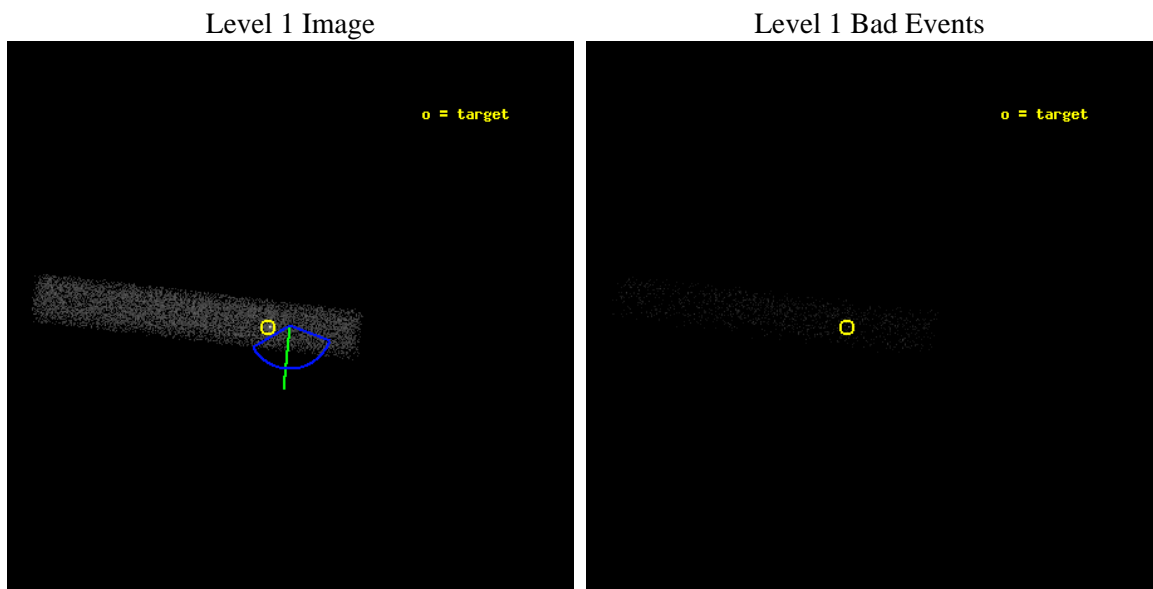
seq_num	700323	Sequence number
obs_id	2133	Observation id
title	AN UNBIASED SURVEY OF X-RAY AND OPTICAL EMISSION FROM EXTENDED RADIO JETS IN AGN	Proposal title
observer	Dr. Rita Sambruna	Principal investigator
object	0723+679	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	112.048333	Observer's specified target RA [deg]
dec_targ	67.813333	Observer's specified target Dec [deg]
ra_nom	112.02222803155	Nominal RA [deg]
dec_nom	67.813960502873	Nominal Dec [deg]
roll_nom	186.51575227088	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10291.559113368	Sum of GTIs [s]
livetime	9333.9008827938	Livetime [s]
ontime7	10291.559113368	Sum of GTIs [s]
l2events	6993	Number of level 2 events



## 2 OBI

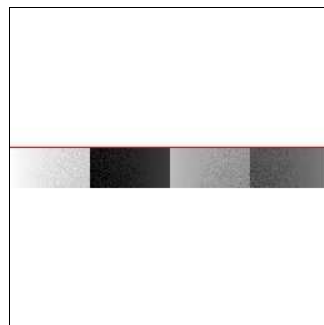
### 2.1 OBI

#### 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	8.4.5	Processing system revision	ontime	10291.559113368	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	10291.559113368	Sum of GTIs [s]
date	2012-09-06T11:13:05	Date and time of file creation	l1events	13575	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	13575
rejected events	6359
rejected %	46%

	<b>ccd 7</b>
grade 0 events	1319
	9%
grade 1 events	16
	0%
grade 2 events	1509
	11%
grade 3 events	959
	7%
grade 4 events	914
	6%
grade 5 events	1055
	7%
grade 6 events	2836
	20%
grade 7 events	4967
	36%

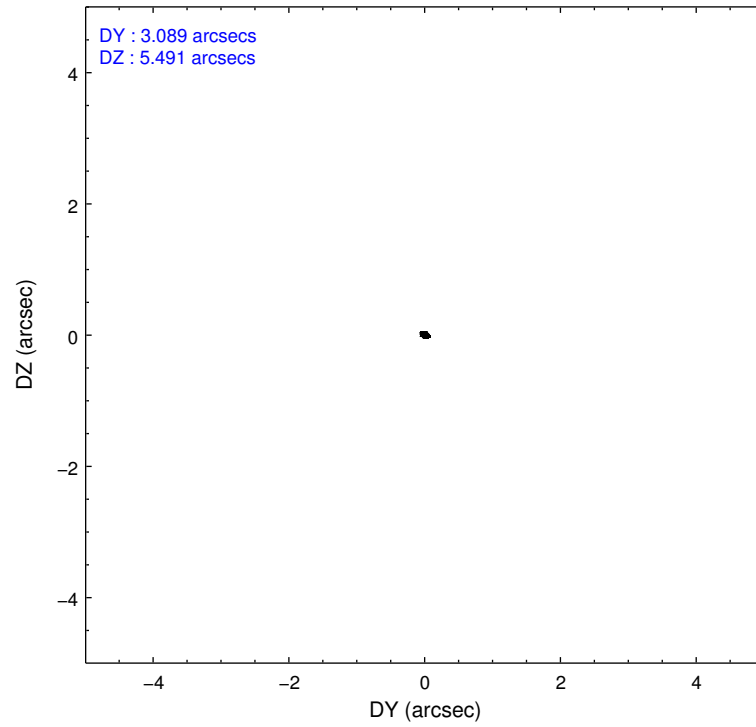
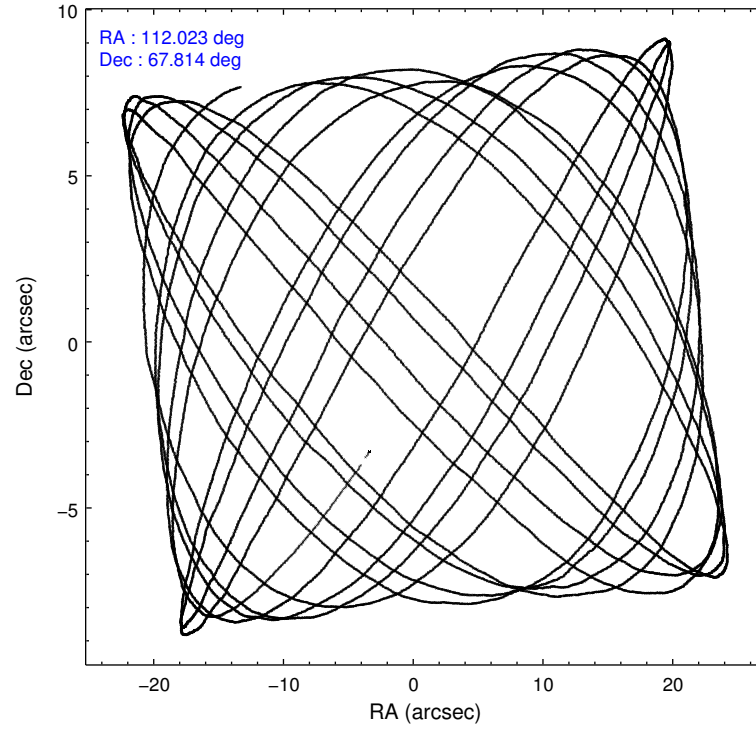


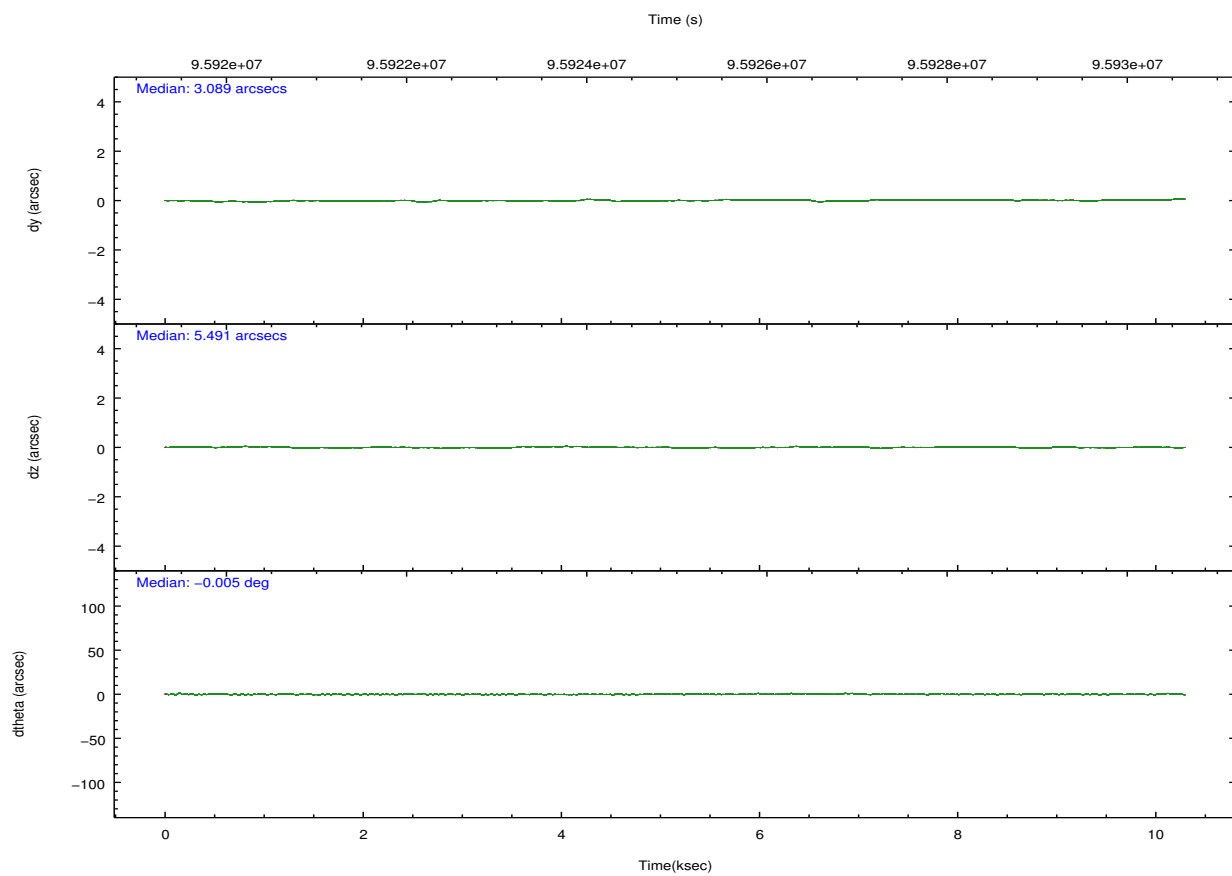
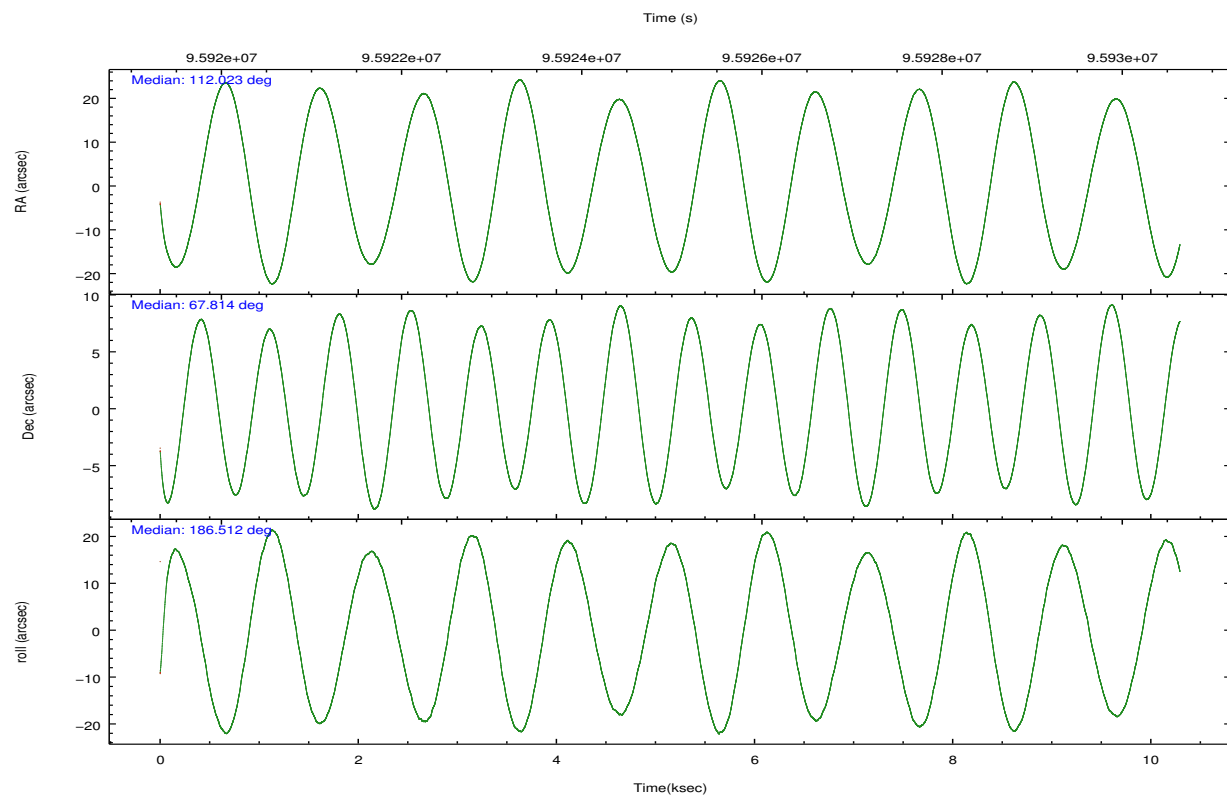
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	112.080195	112.0222280315461
[deg] Pointing Dec	67.830436	67.81396050287337
[deg] Pointing Roll	186.305451	186.5157522708826
[deg] Roll angle	175.000000	175.000000
[deg] Roll tolerance	64.000000	64.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	95920127.184000	95919119.46074601
Observation start date	2001-01-15T04:27:43	2001-01-15T04:11:59
[s] Observation end time (MET)	95930127.184000	95930804.46119399
Observation end date	2001-01-15T07:14:23	2001-01-15T07:26:44
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



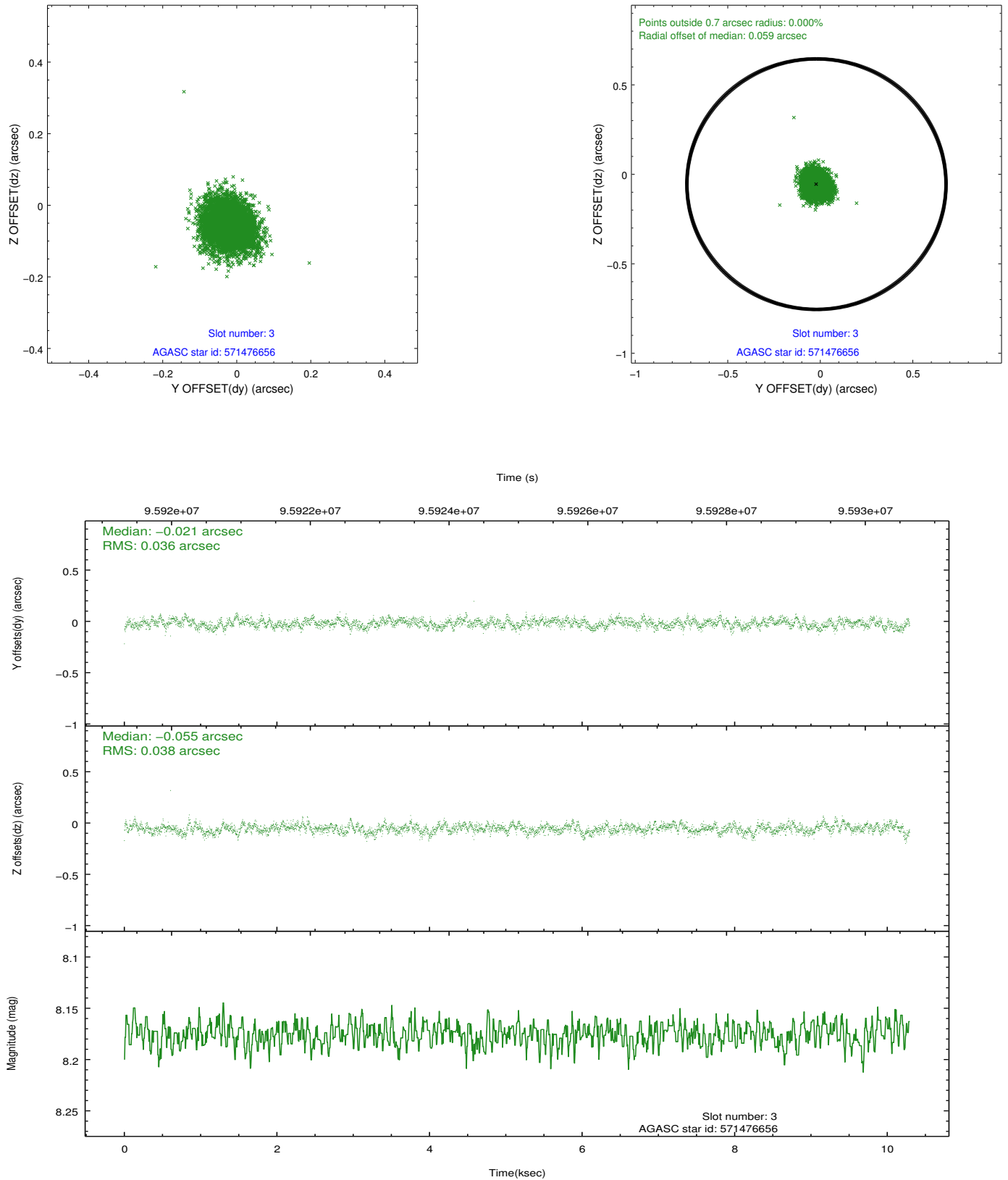


### Slot Statistics

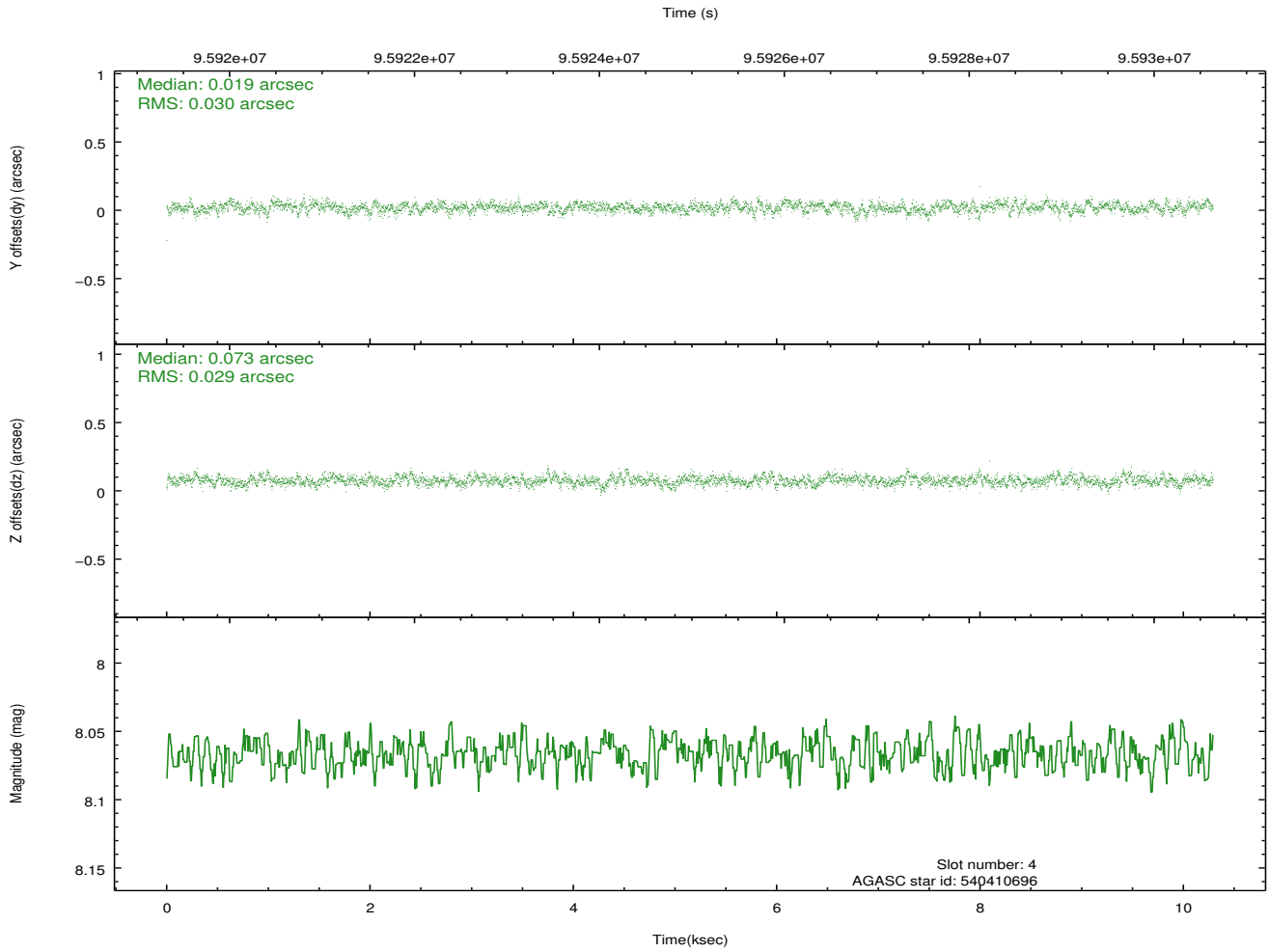
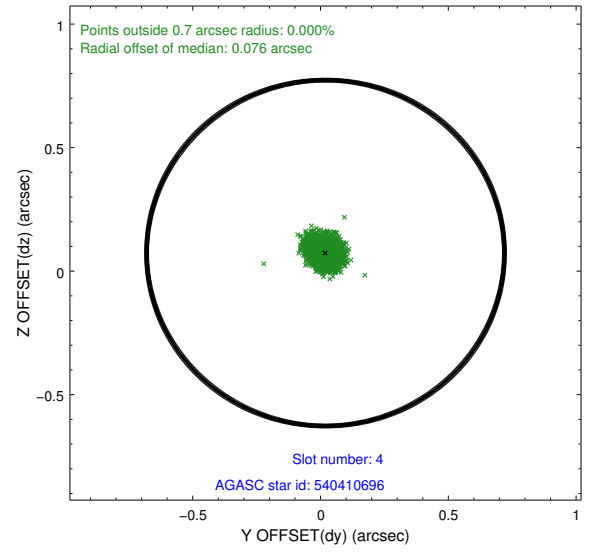
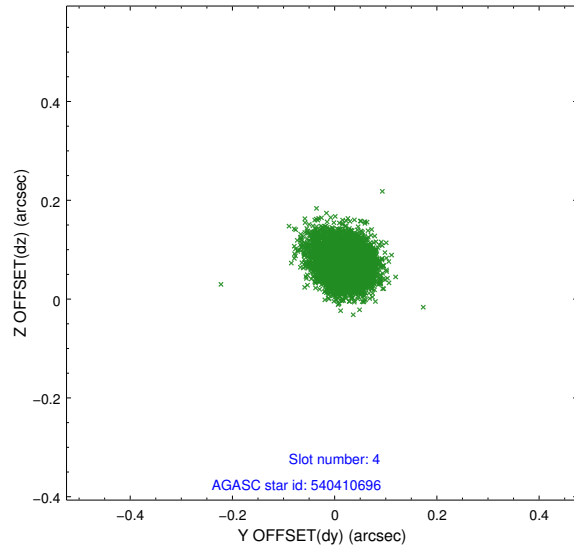
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2510	-0.031	0.005	0.007	0.011	0.000000	0.000000	-755.73	-1726.57
1	FID	ACIS-S-4	7.21	2510	-0.007	0.013	0.006	0.010	0.000000	0.000000	2157.30	181.44
2	FID	ACIS-S-5	7.24	2510	0.007	-0.010	0.007	0.012	0.000000	0.000000	-1807.91	175.60
3	GUIDE	571476656	8.17	5015	-0.021	-0.055	0.056	0.091	111.989788	67.671491	186.15	555.88
4	GUIDE	540410696	8.07	5020	0.019	0.073	0.044	0.073	110.852619	67.228012	1936.93	1952.15
5	GUIDE	540545968	6.91	5020	0.028	-0.021	0.038	0.061	113.923090	67.452723	-2382.27	1594.45
6	GUIDE	571487656	8.57	5019	0.060	0.010	0.057	0.091	111.009474	67.912426	1406.91	-463.74
7	GUIDE	571475128	9.60	5018	-0.086	-0.004	0.097	0.153	113.391030	68.405440	-1954.80	-1884.48

## 2.4 Star Slots

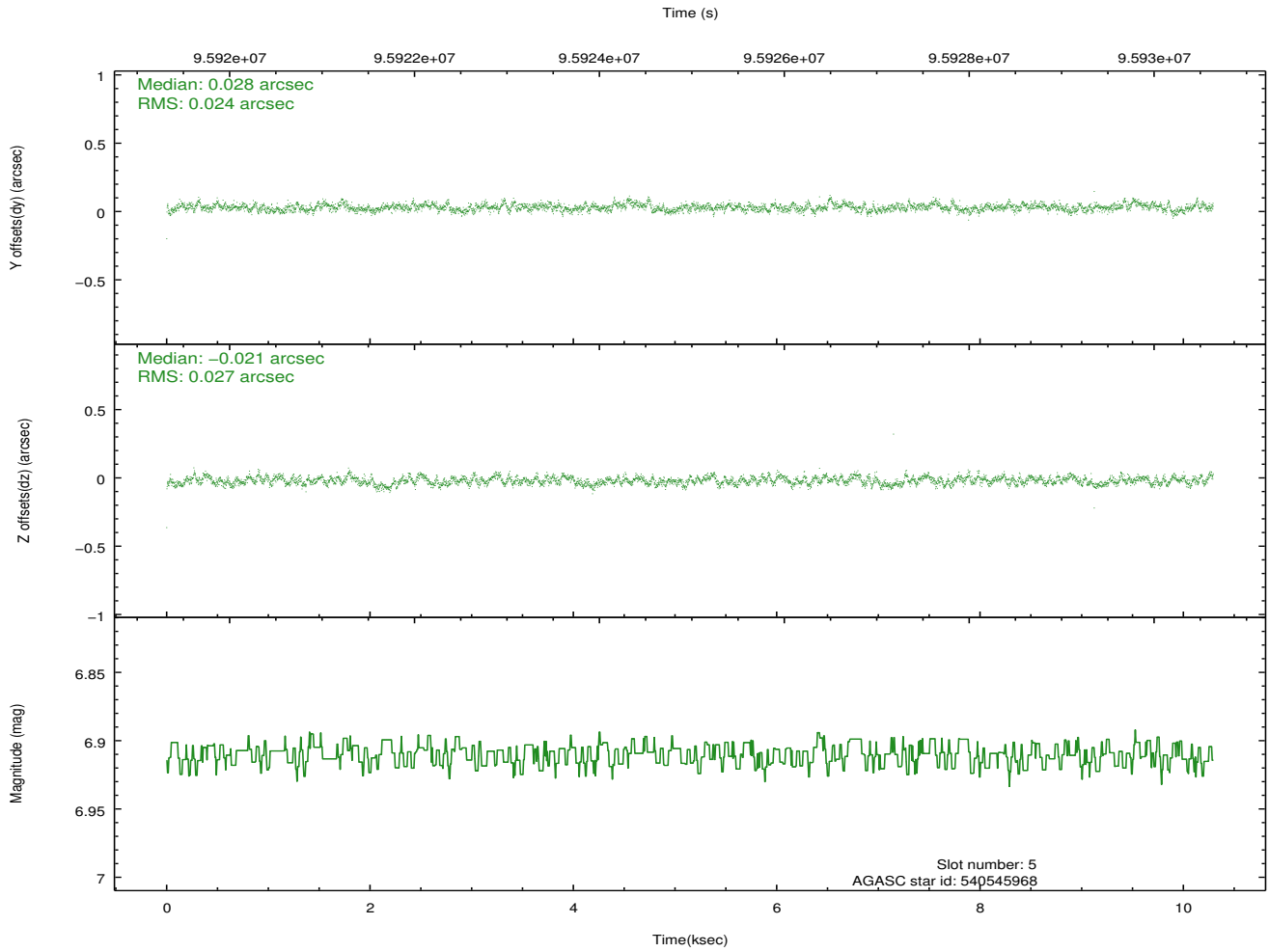
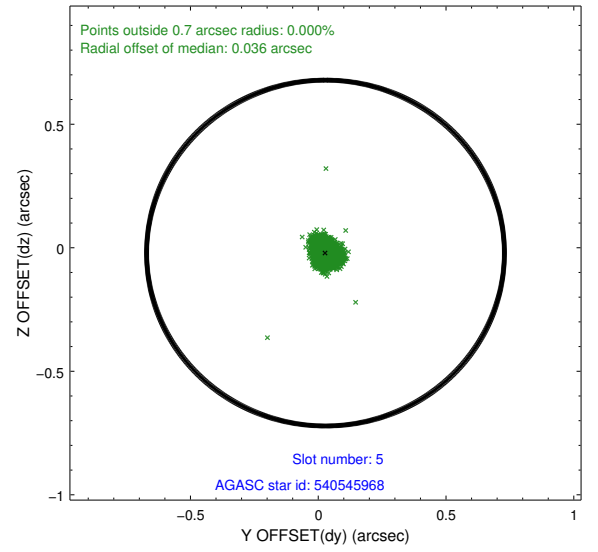
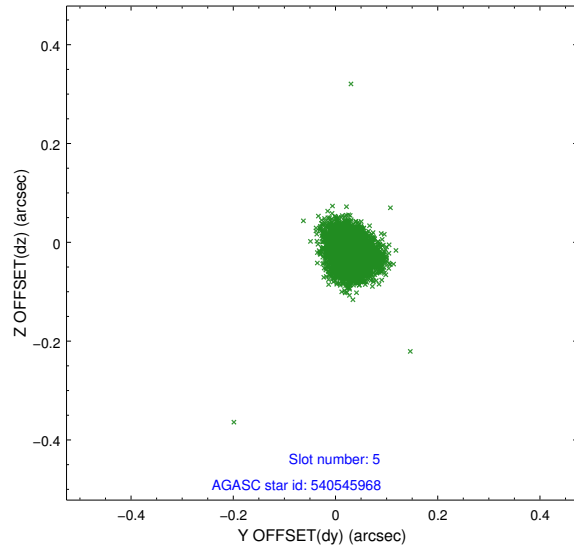
### 2.4.1 Slot 3



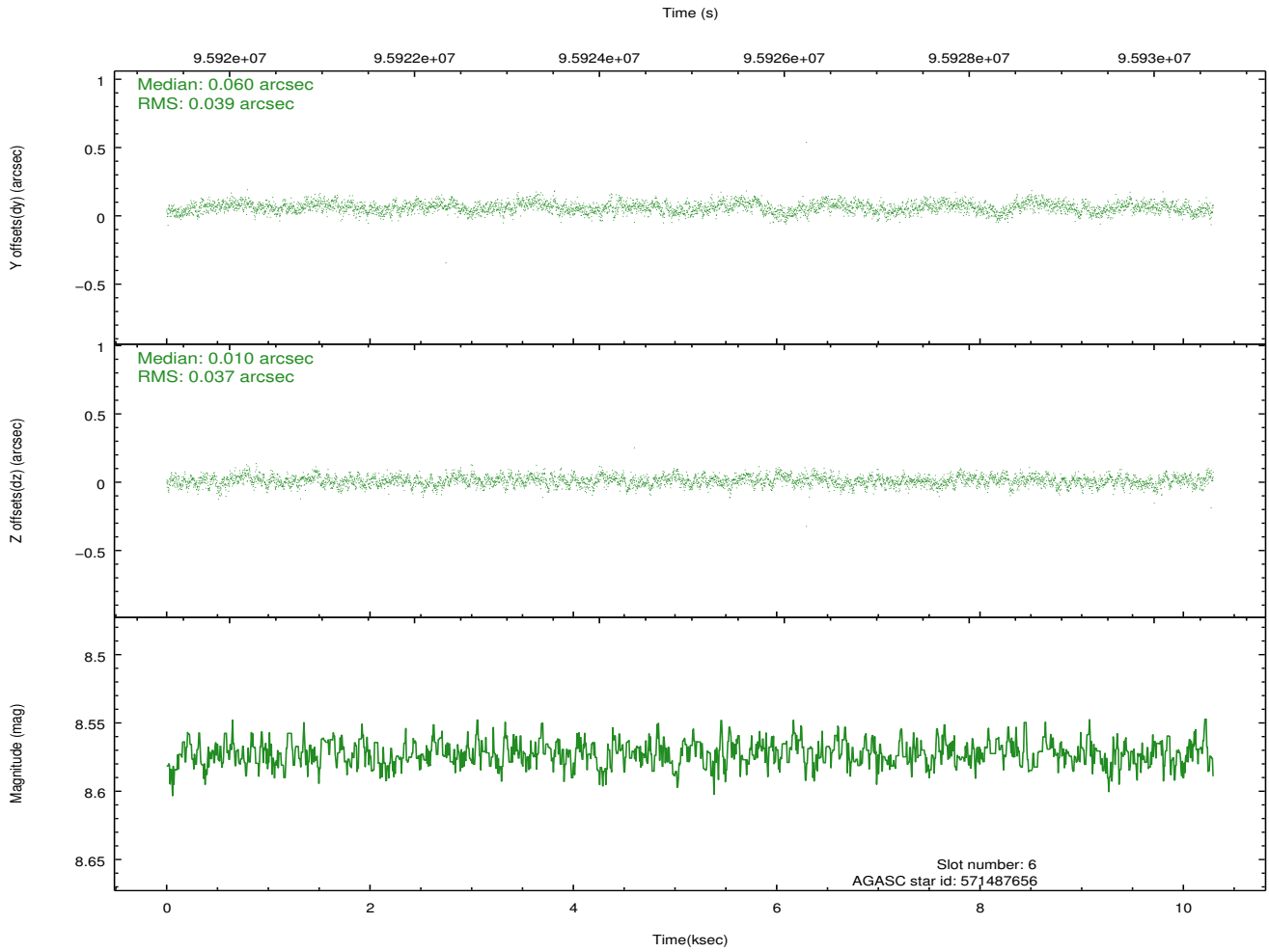
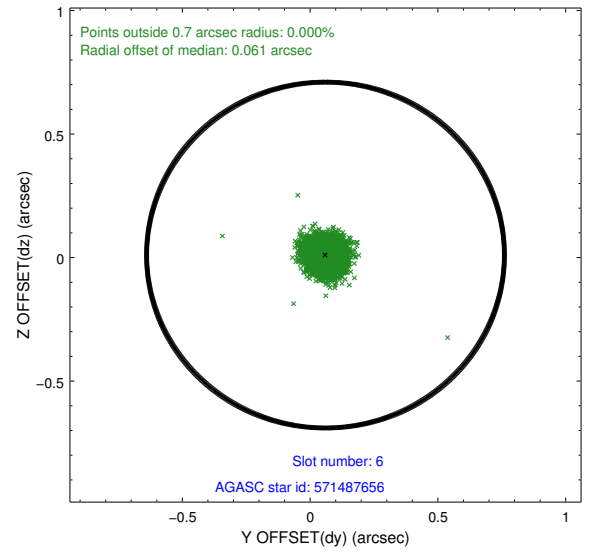
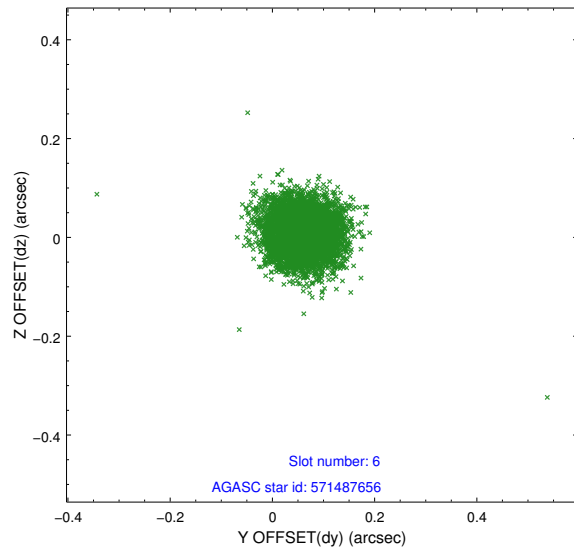
## 2.4.2 Slot 4



### 2.4.3 Slot 5

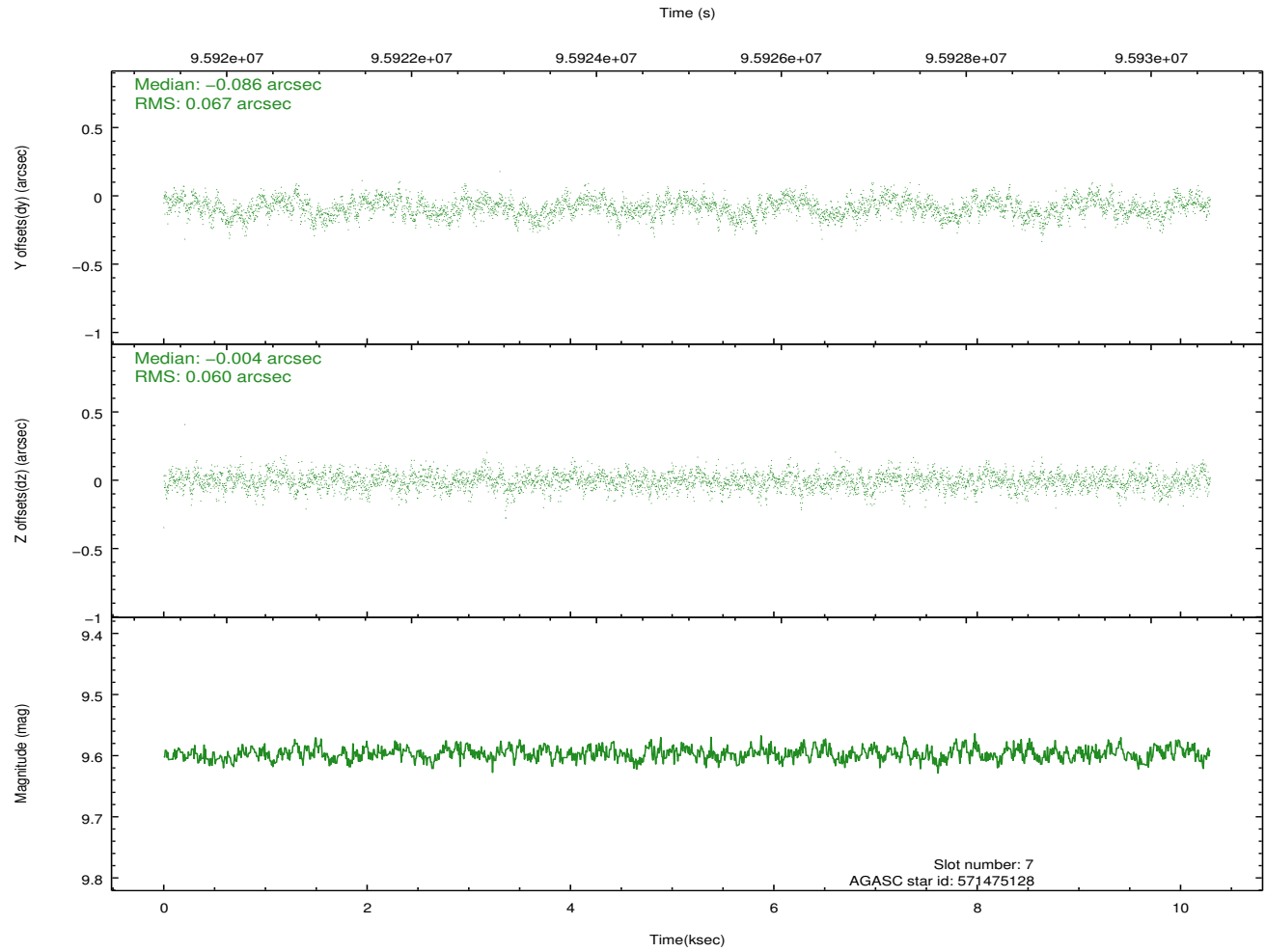
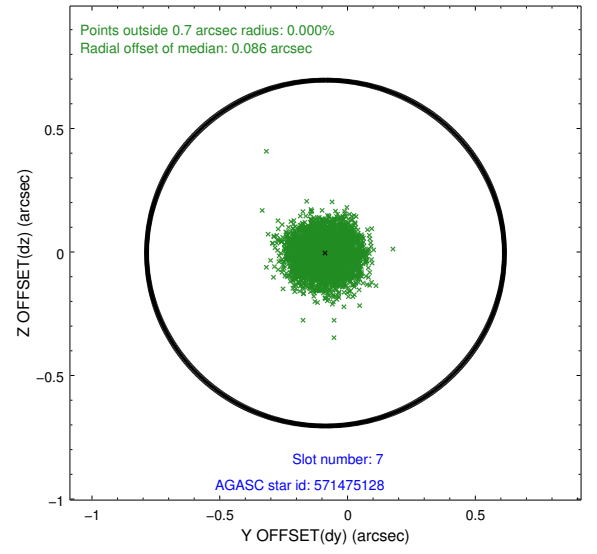
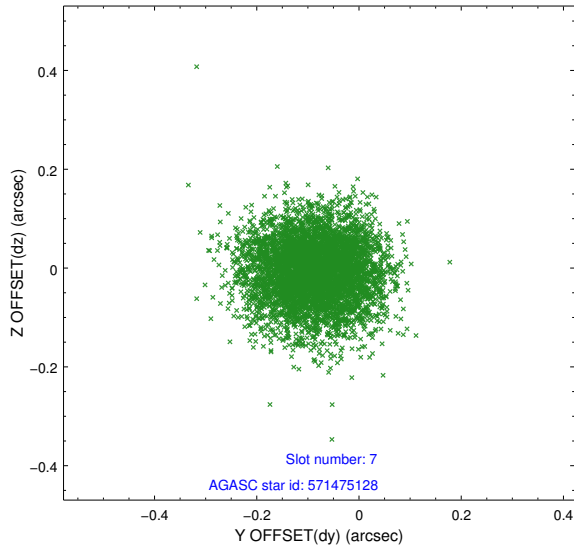


## 2.4.4 Slot 6



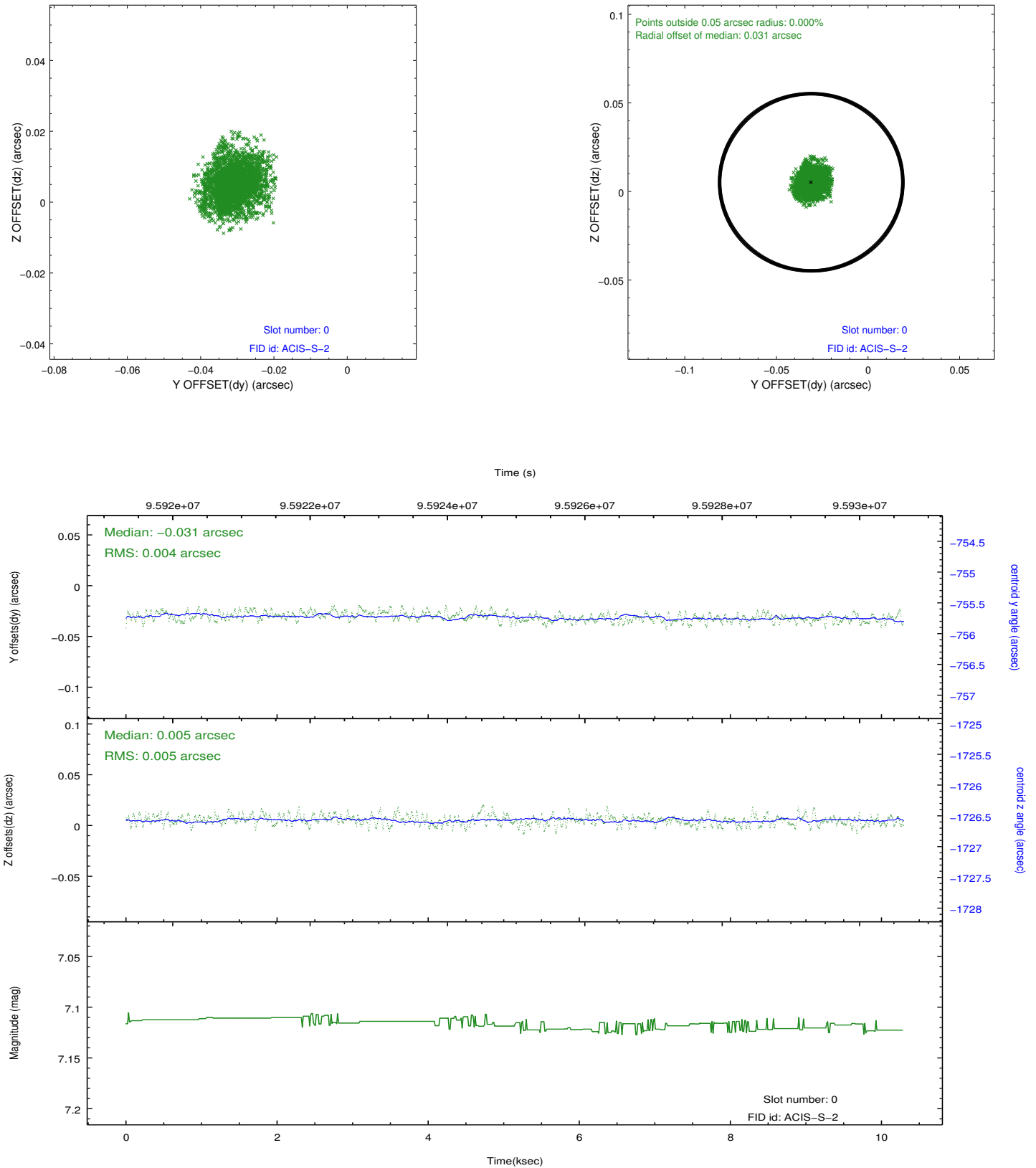


## 2.4.5 Slot 7

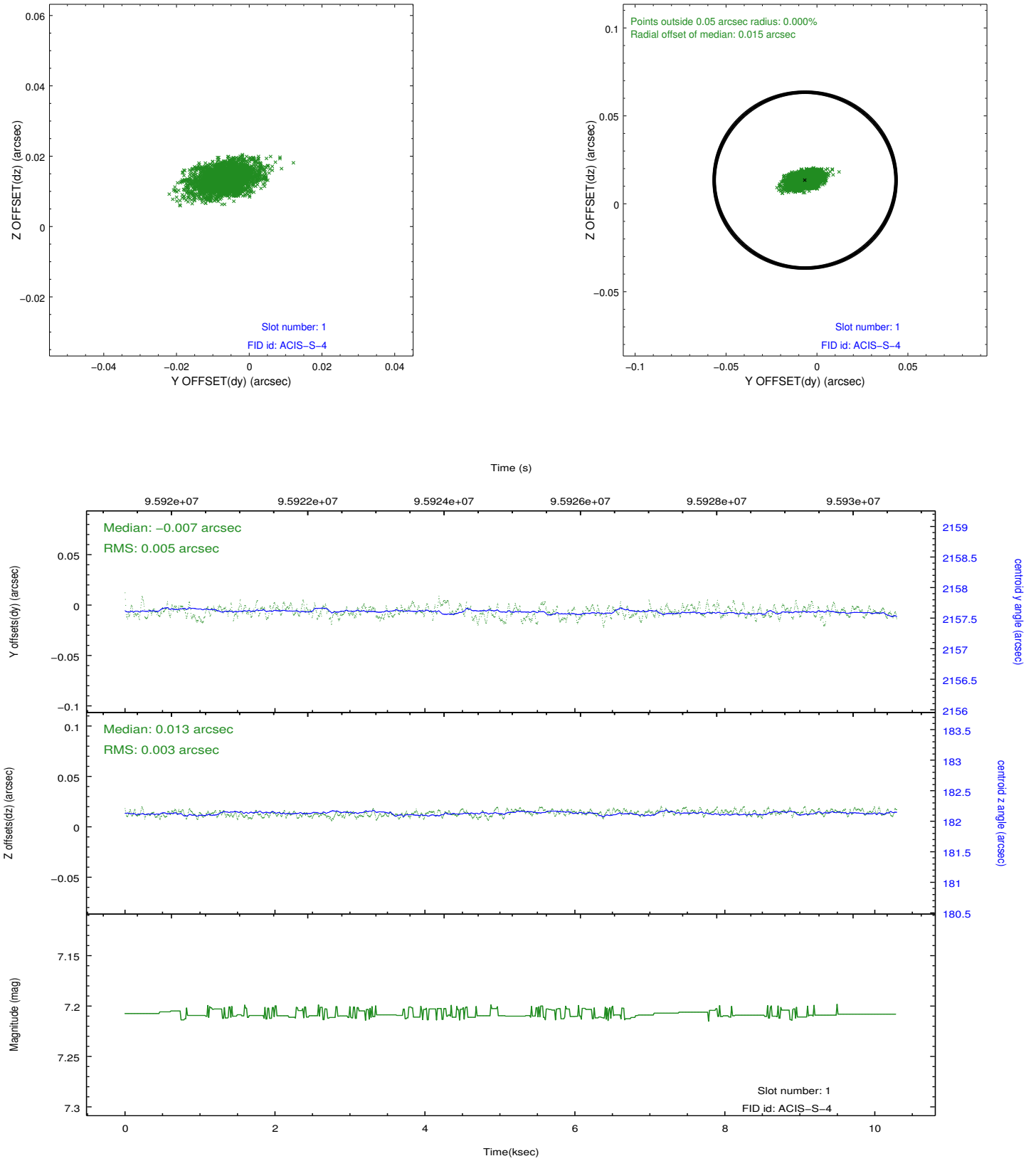


## 2.5 FID Slots

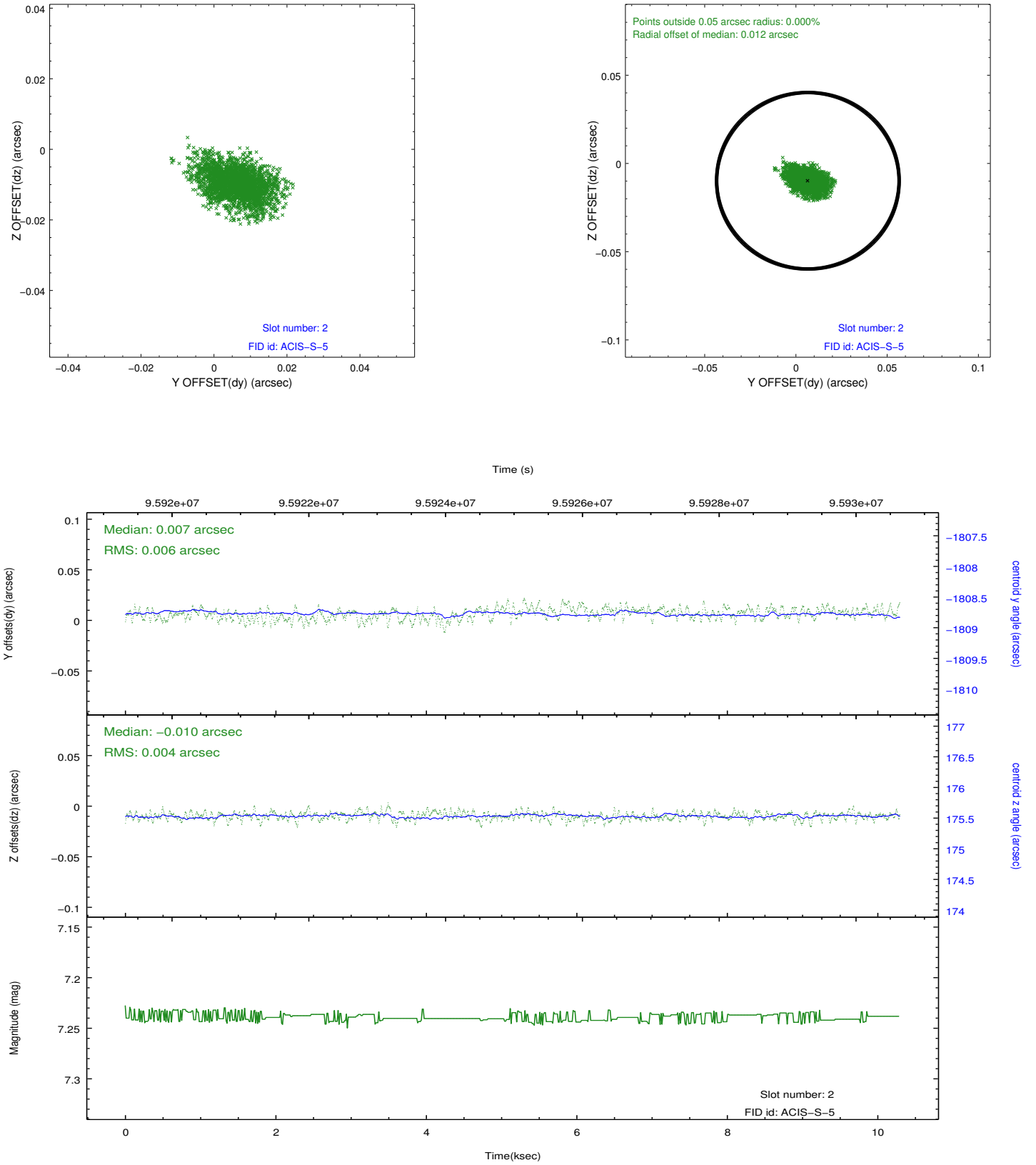
### 2.5.1 Slot 0



## 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)	2012.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.291

### A.2 Comments

Roll constraint met.