

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6261 - L2 Version 3  
Chandra X-Ray Center

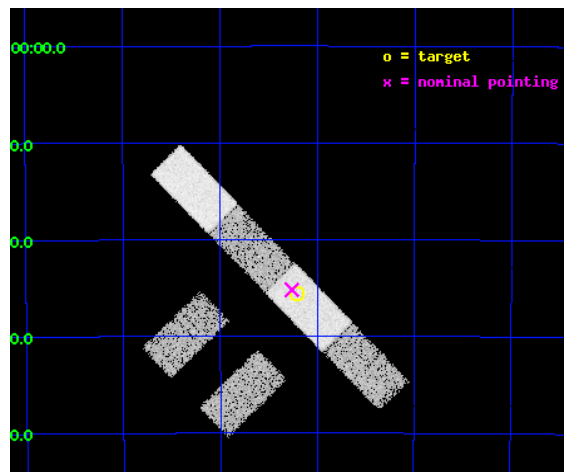
L2 Processing Date : Dec 22 2012

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# 1 Front

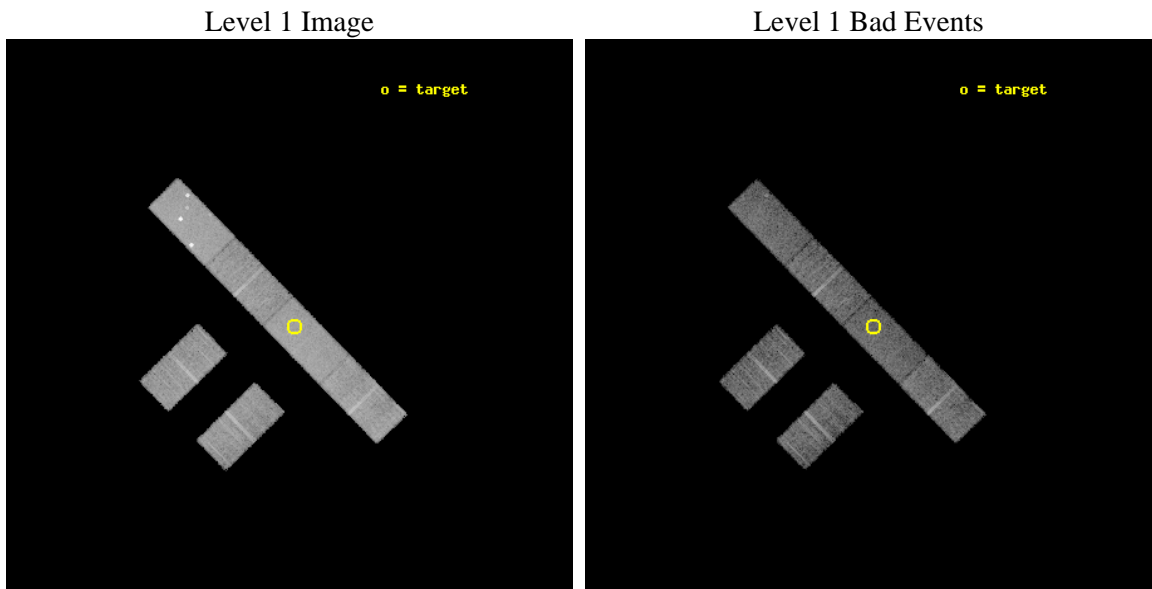
seq_num	400468	Sequence number
obs_id	6261	Observation id
title	Periastron Observations of a Massive Eclipsing Pulsar Binary System	&#160
observer	Dr Maura McLaughlin	Principal investigator
object	J1638-4725	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.55375	Observer's specified target RA [deg]
dec_targ	-47.425528	Observer's specified target Dec [deg]
ra_nom	249.56531812893	Nominal RA [deg]
dec_nom	-47.419909067303	Nominal Dec [deg]
roll_nom	45.588478577299	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10180.800067425	Sum of GTIs [s]
livetime	9953.8522364341	Livetime [s]
ontime2	10180.800067425	Sum of GTIs [s]
ontime3	10177.117987454	Sum of GTIs [s]
ontime5	10180.800067425	Sum of GTIs [s]
ontime6	10180.800067425	Sum of GTIs [s]
ontime7	10180.800067425	Sum of GTIs [s]
ontime8	10180.800067425	Sum of GTIs [s]
l2events	68869	Number of level 2 events



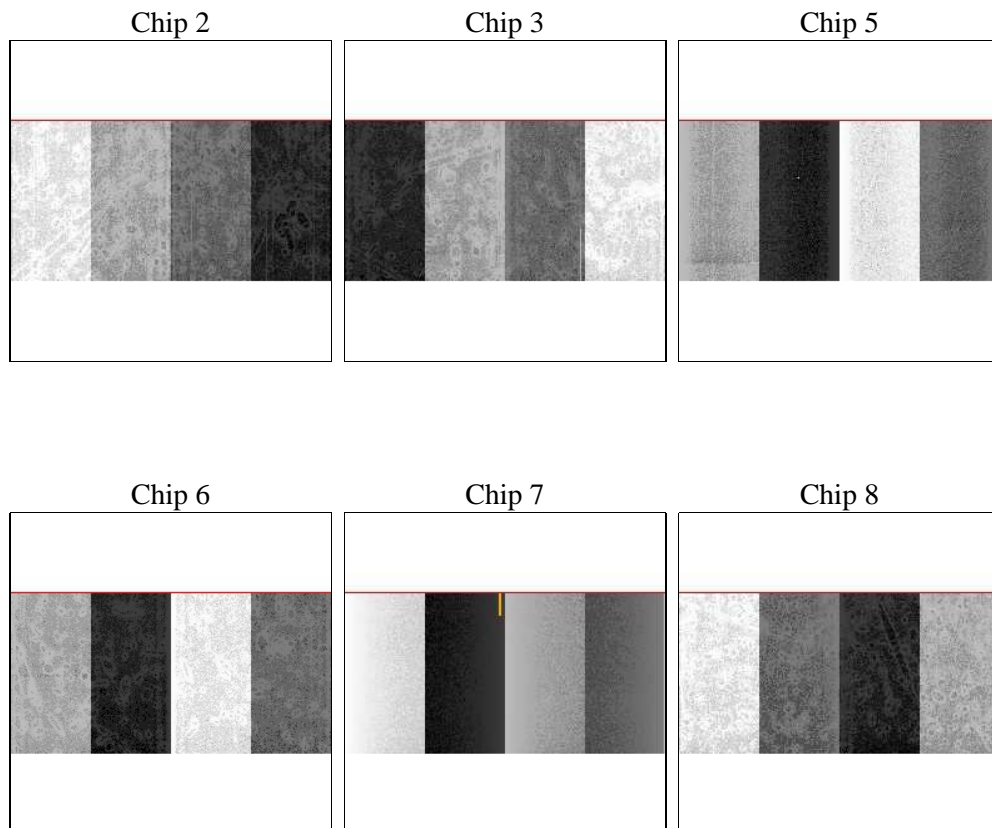
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	10180.800067425	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	10180.800067425	Sum of GTIs [s]
date	2012-12-23T02:43:34	Date and time of file creation	ontime3	10177.117987454	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	10180.800067425	Sum of GTIs [s]
			ontime6	10180.800067425	Sum of GTIs [s]
			ontime7	10180.800067425	Sum of GTIs [s]
			ontime8	10180.800067425	Sum of GTIs [s]
			l1events	308561	Number of level 1 events

### 2.1.4 Events

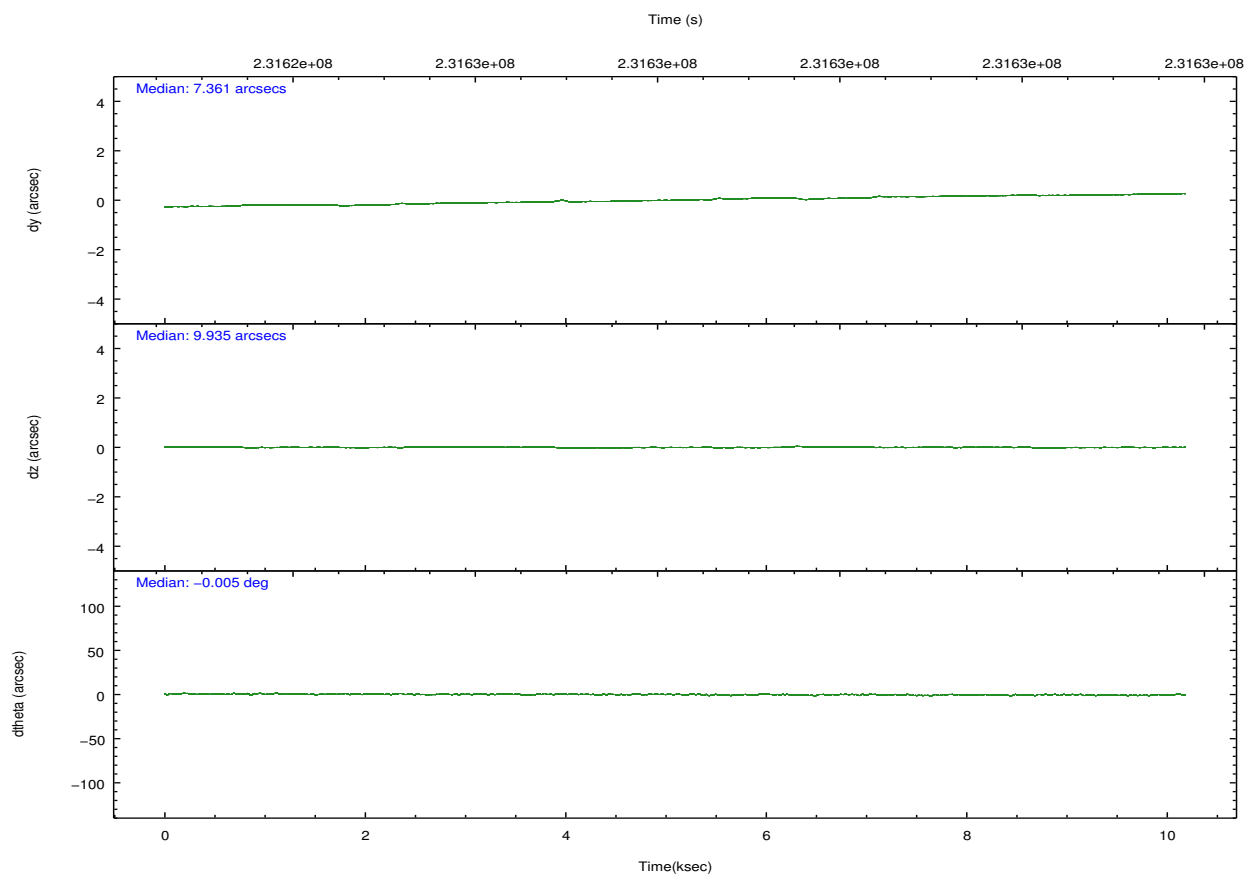
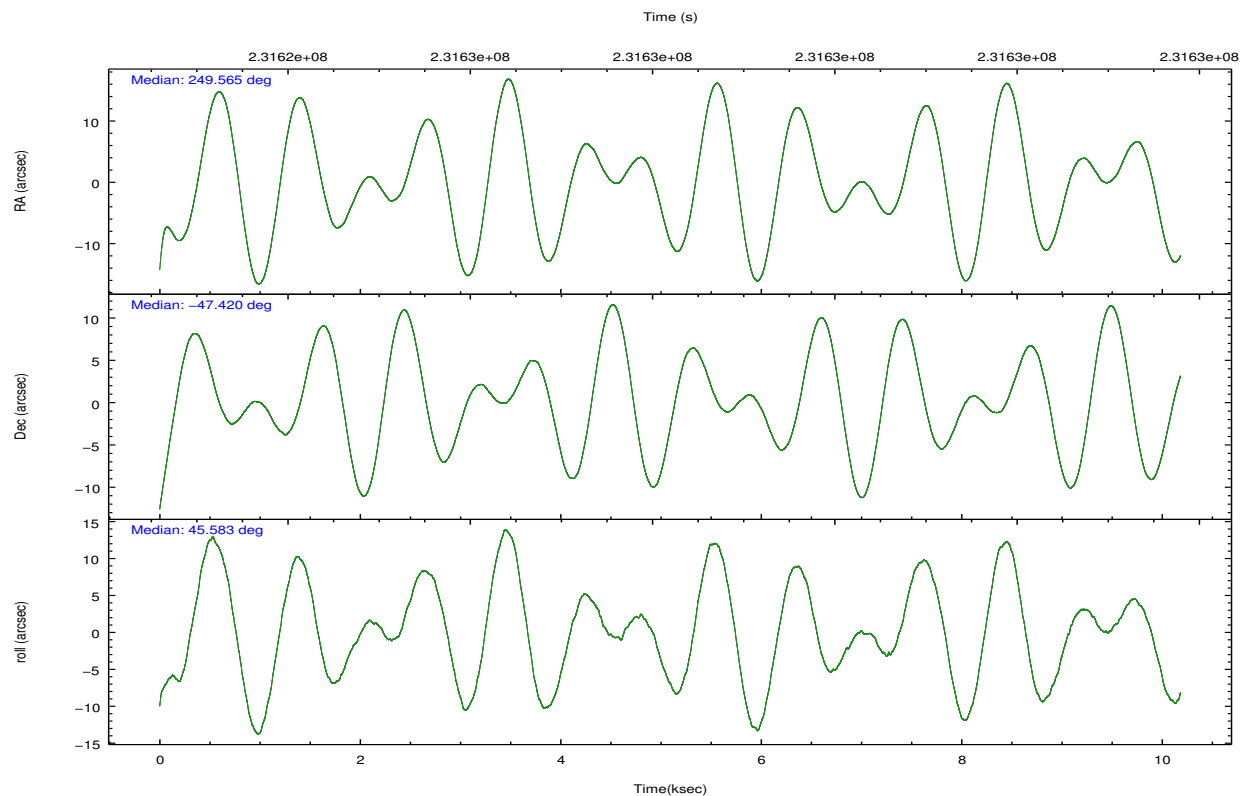
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44096	41789	70652	43201	54941	53882	grade 0 events	2367	2228	12580	2336	2256	3714
rejected events	38584	36734	32617	37623	31173	42375		5%	5%	17%	5%	4%	6%
rejected %	87%	87%	46%	87%	56%	78%	grade 1 events	17	19	224	21	49	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	1107	877	8399	1039	4794	2510
								2%	2%	11%	2%	8%	4%
							grade 3 events	598	581	1371	606	2339	1258
								1%	1%	1%	1%	4%	2%
							grade 4 events	594	539	1324	608	2275	1166
								1%	1%	1%	1%	4%	2%
							grade 5 events	1648	1699	4848	1897	5159	2425
								3%	4%	6%	4%	9%	4%
							grade 6 events	859	840	14434	1003	12149	2878
								1%	2%	20%	2%	22%	5%
							grade 7 events	36906	35006	27472	35691	25920	39905
								83%	83%	38%	82%	47%	74%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	249.555898	249.5653181289314	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-47.446384	-47.41990906730336	Subarray start row	257	257
[deg] Pointing Roll	45.424910	45.58847857729917	Subarray row count	512	512
[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	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	231623286.184000	231622426.79662			
Observation start date	2005-05-04T19:47:02	2005-05-04T19:33:46			
[s] Observation end time (MET)	231633286.184000	231634684.25967			
Observation end date	2005-05-04T22:33:42	2005-05-04T22:58:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect

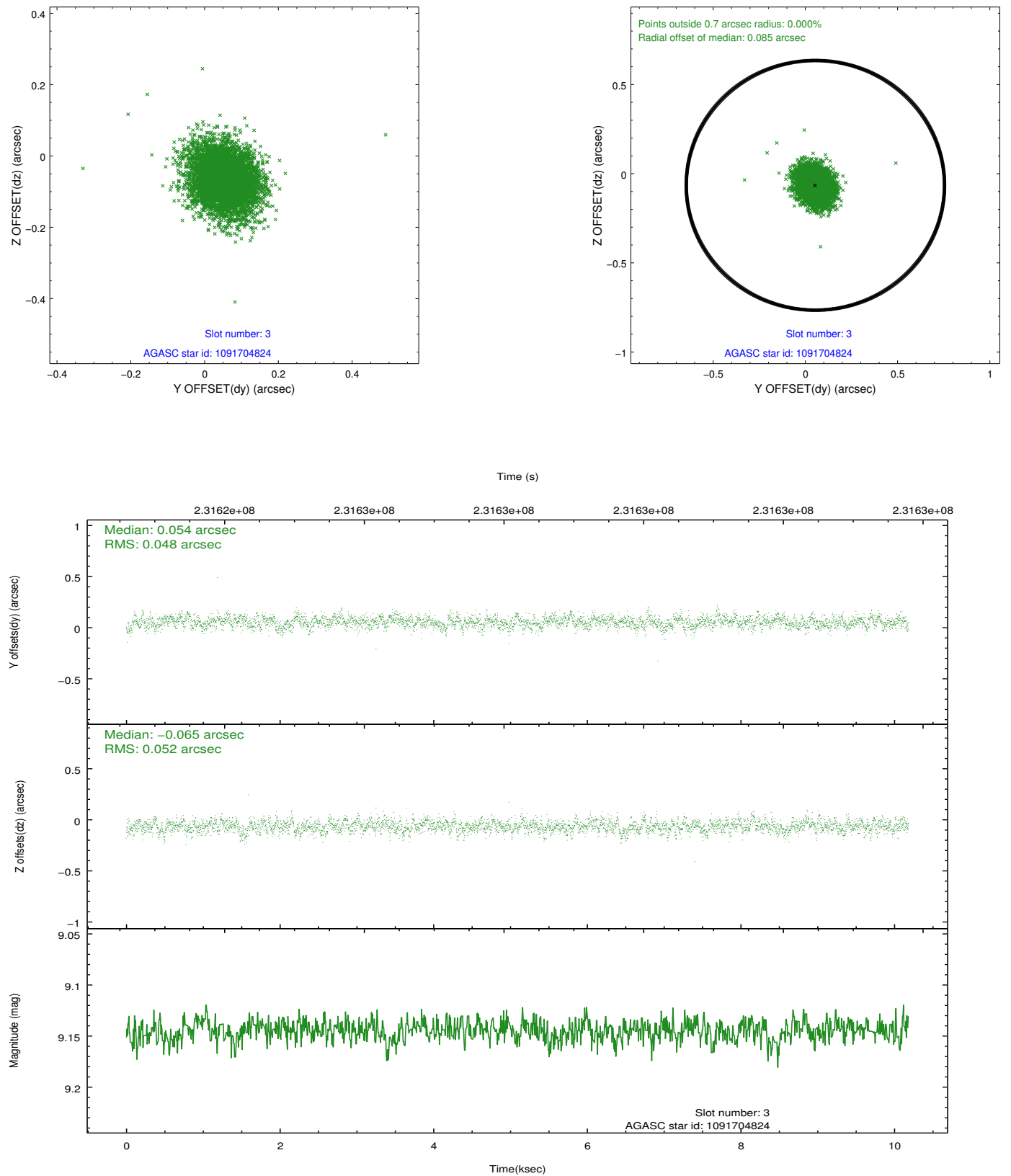


### Slot Statistics

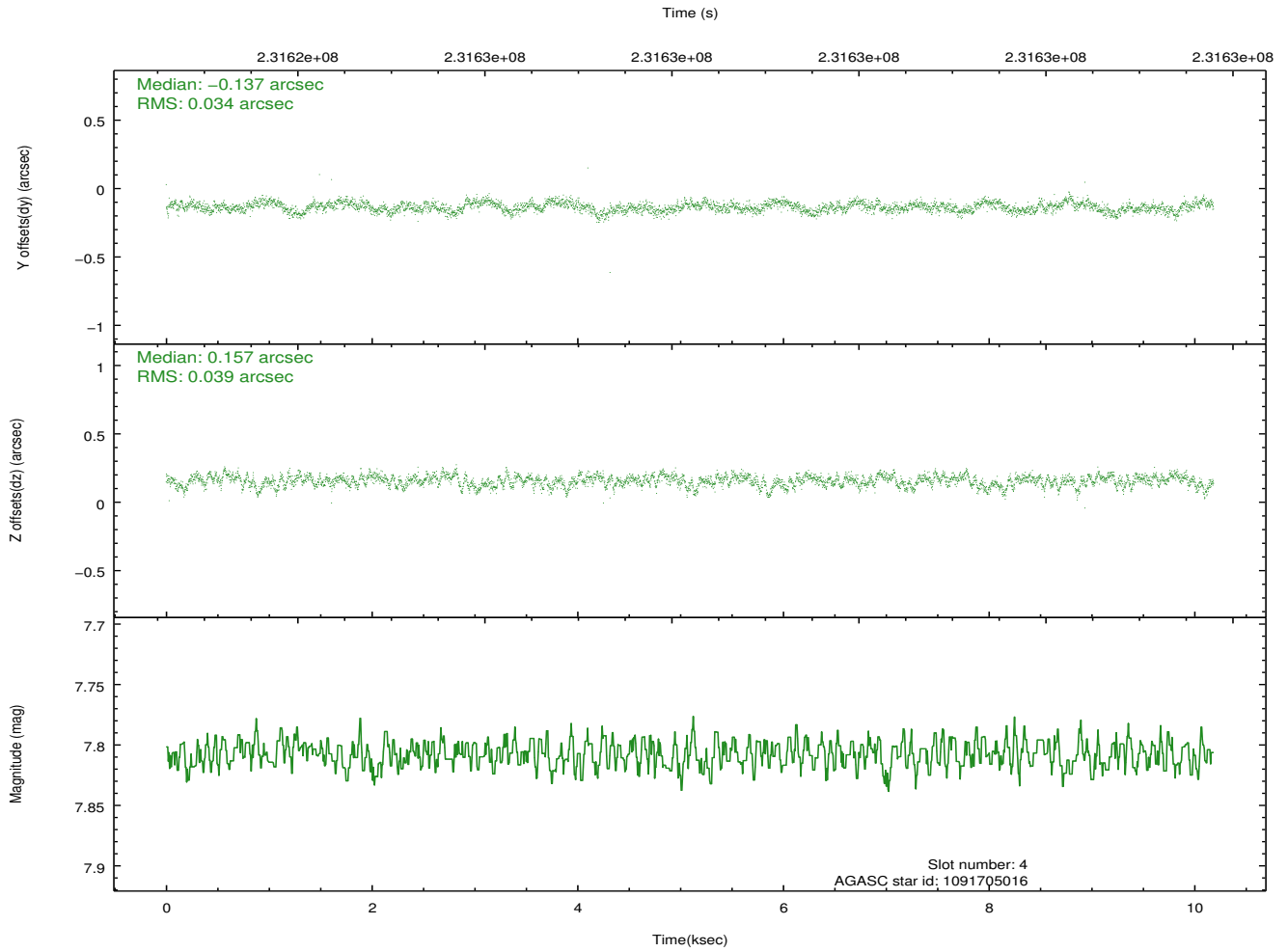
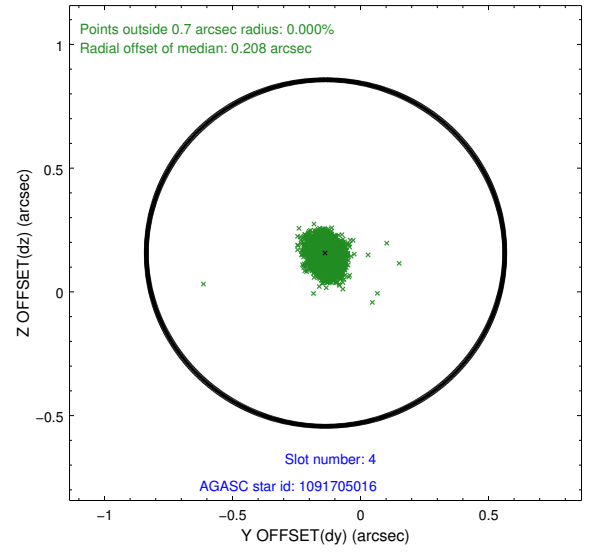
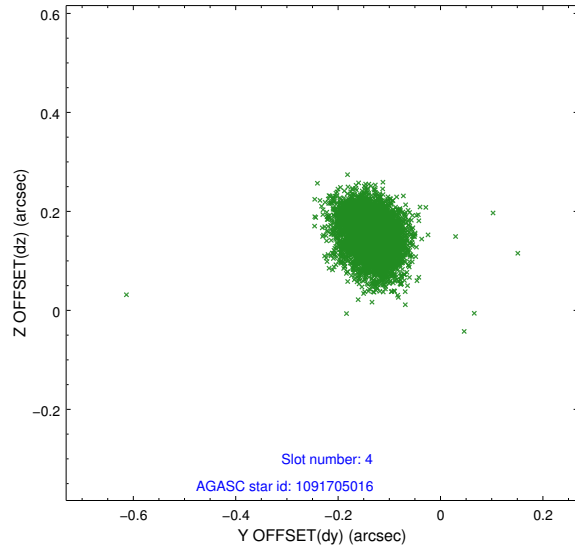
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2484	-0.046	-0.026	0.007	0.011	0.000000	0.000000	-760.13	-1731.22
1	FID	ACIS-S-4	7.21	2484	0.092	0.029	0.007	0.012	0.000000	0.000000	2153.01	176.84
2	FID	ACIS-S-5	7.23	2484	-0.078	0.006	0.008	0.014	0.000000	0.000000	-1812.38	171.00
3	GUIDE	1091704824	9.14	4960	0.054	-0.065	0.074	0.123	249.173141	-47.336759	-375.59	940.48
4	GUIDE	1091705016	7.81	4969	-0.137	0.157	0.054	0.088	249.888030	-47.558250	278.43	-858.22
5	GUIDE	1091706216	9.04	4967	0.074	-0.098	0.082	0.131	248.520013	-47.617493	-2214.64	1346.07
6	GUIDE	1091709408	9.21	4964	-0.030	-0.064	0.085	0.136	249.304466	-47.312562	-88.46	774.81
7	GUIDE	1091709768	7.71	4968	0.039	0.069	0.062	0.095	249.435228	-47.706899	-873.06	-450.10

## 2.4 Star Slots

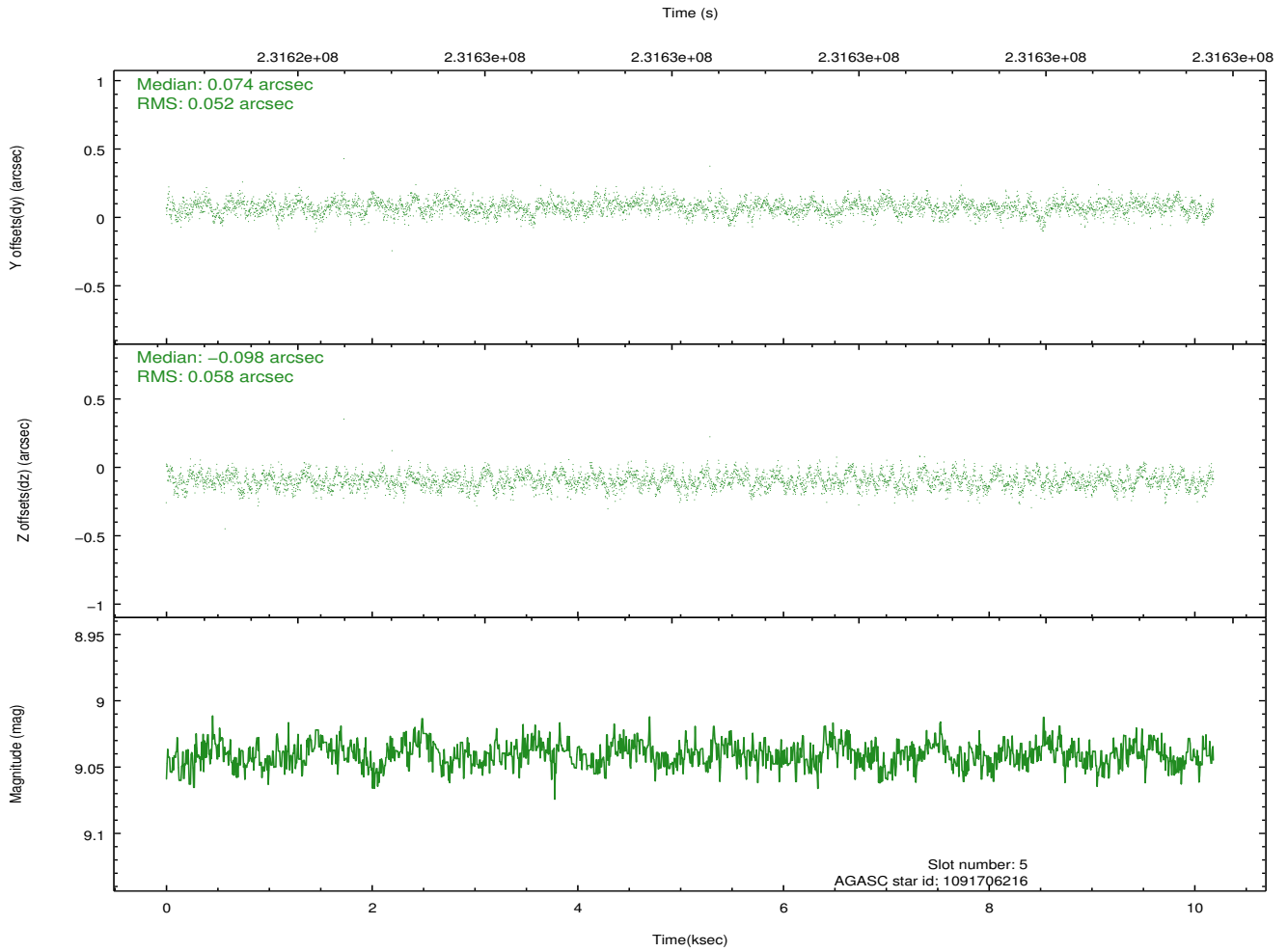
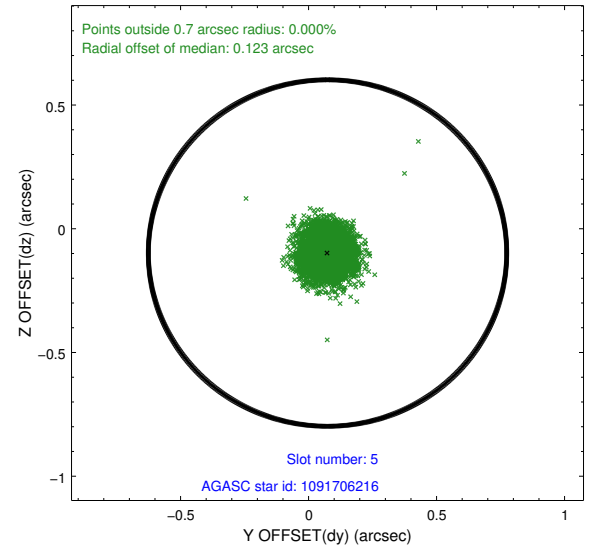
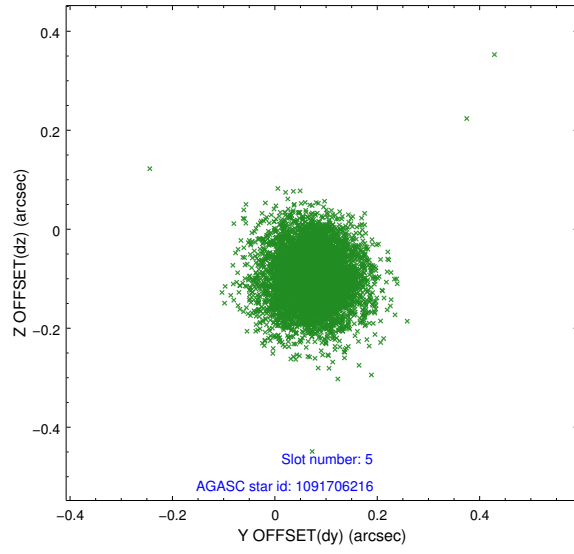
### 2.4.1 Slot 3



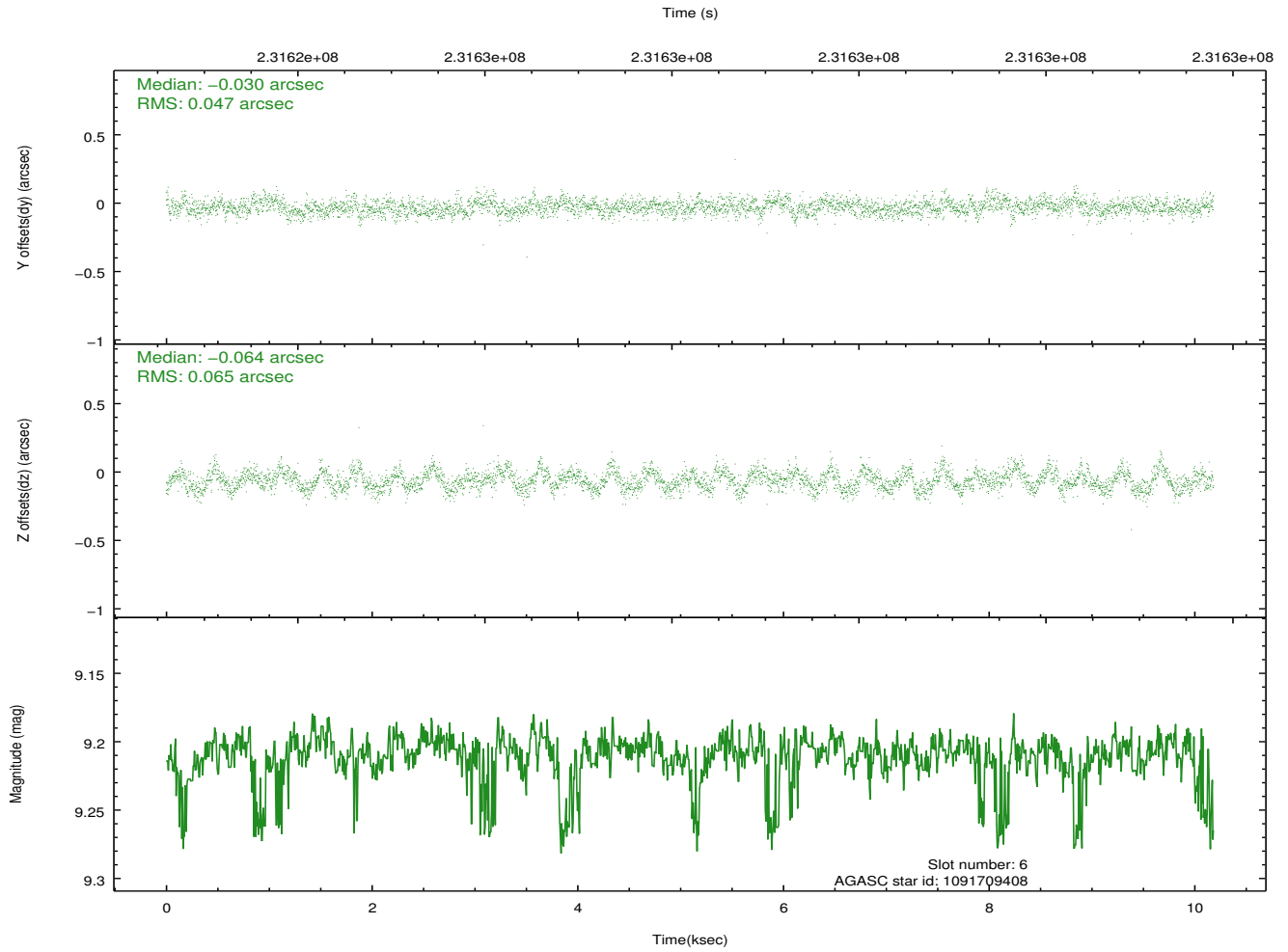
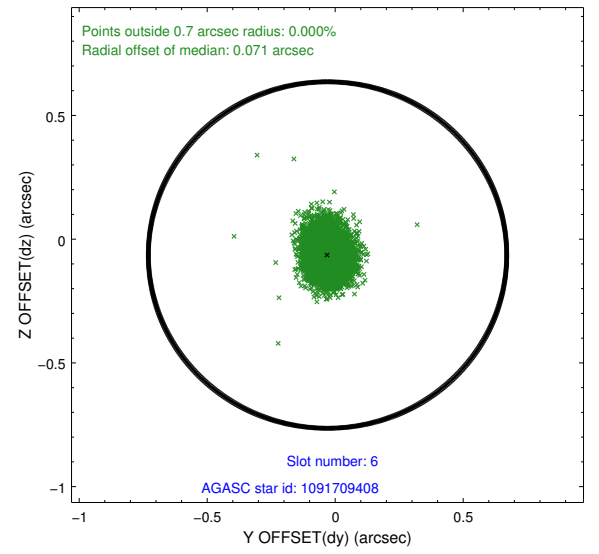
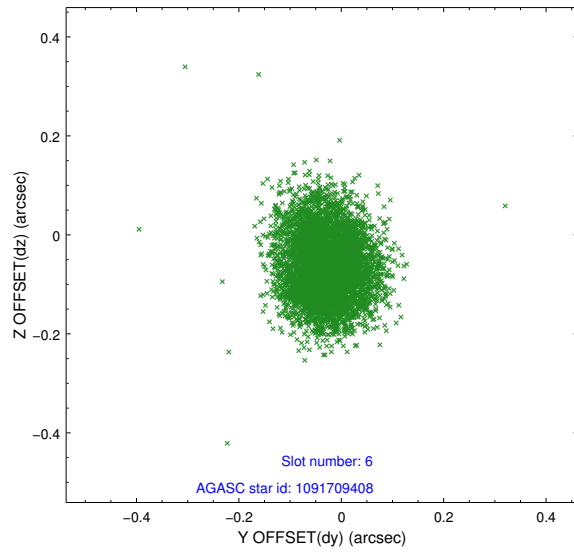
## 2.4.2 Slot 4



### 2.4.3 Slot 5

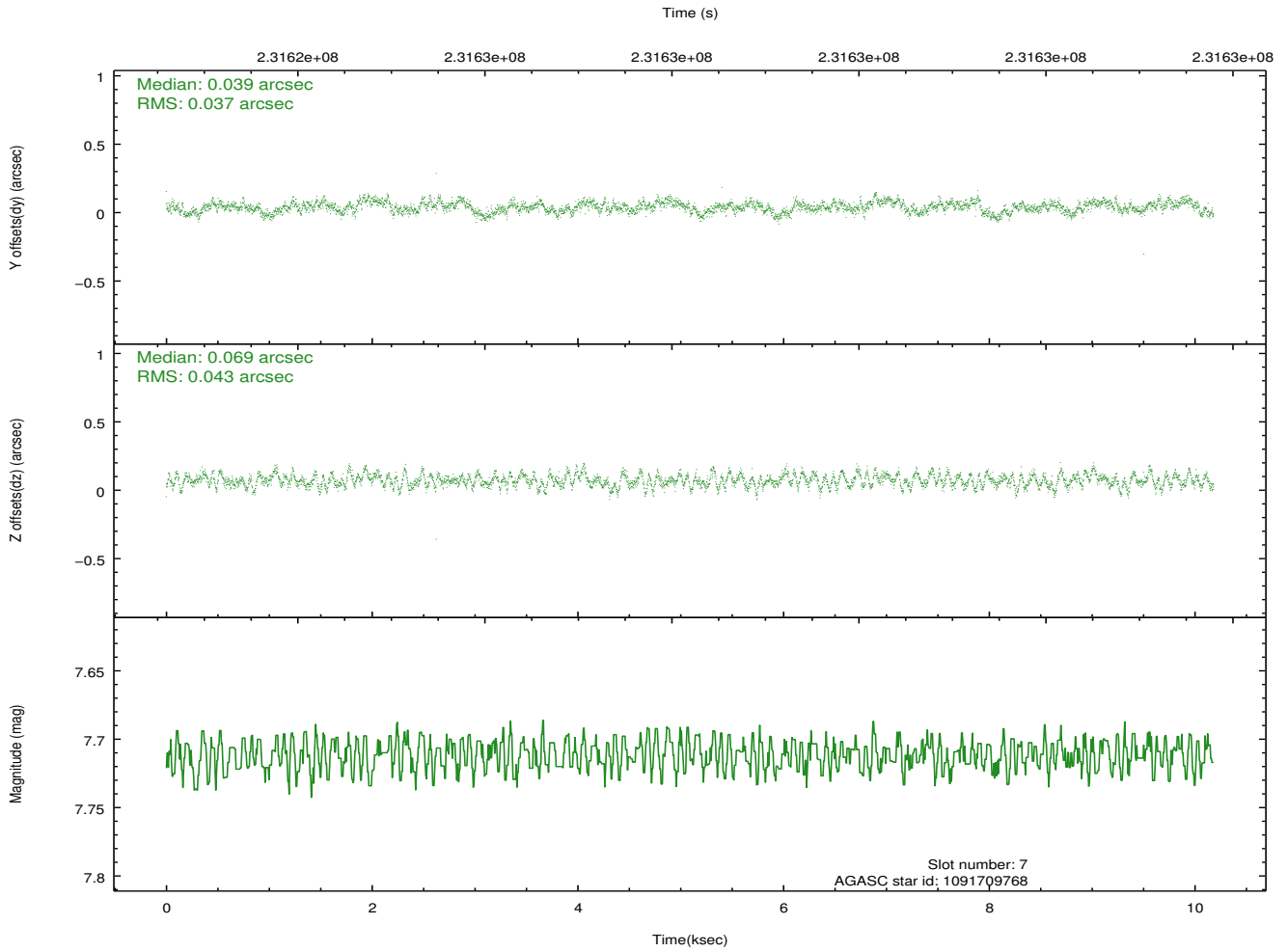
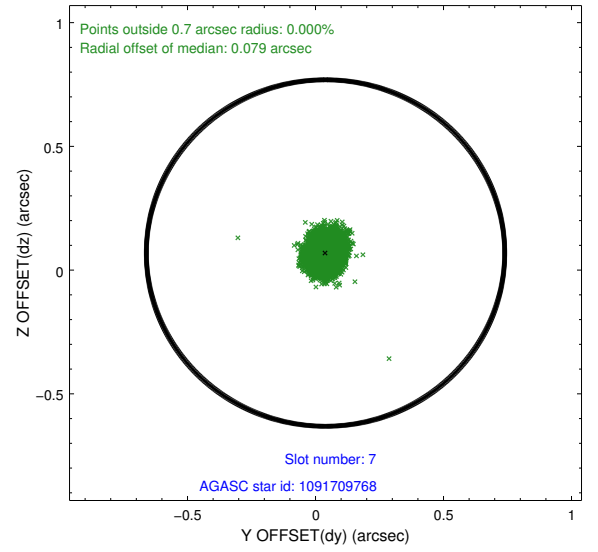
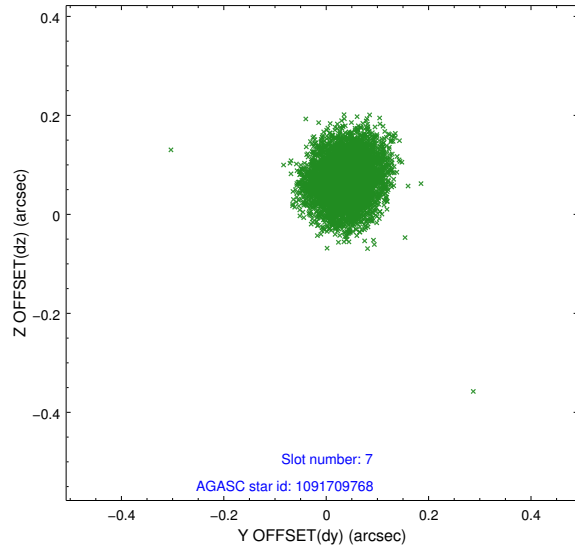


## 2.4.4 Slot 6



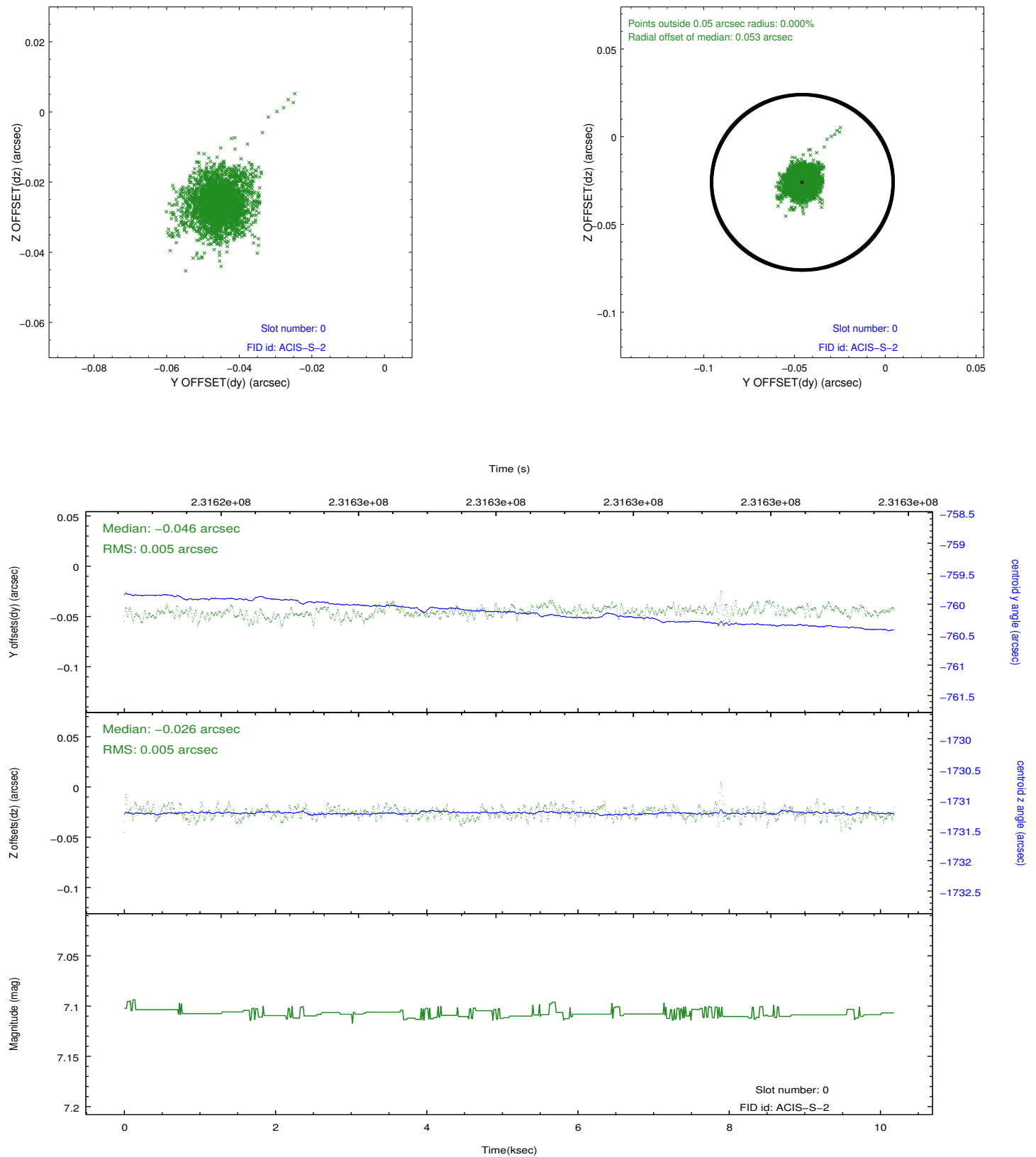


## 2.4.5 Slot 7

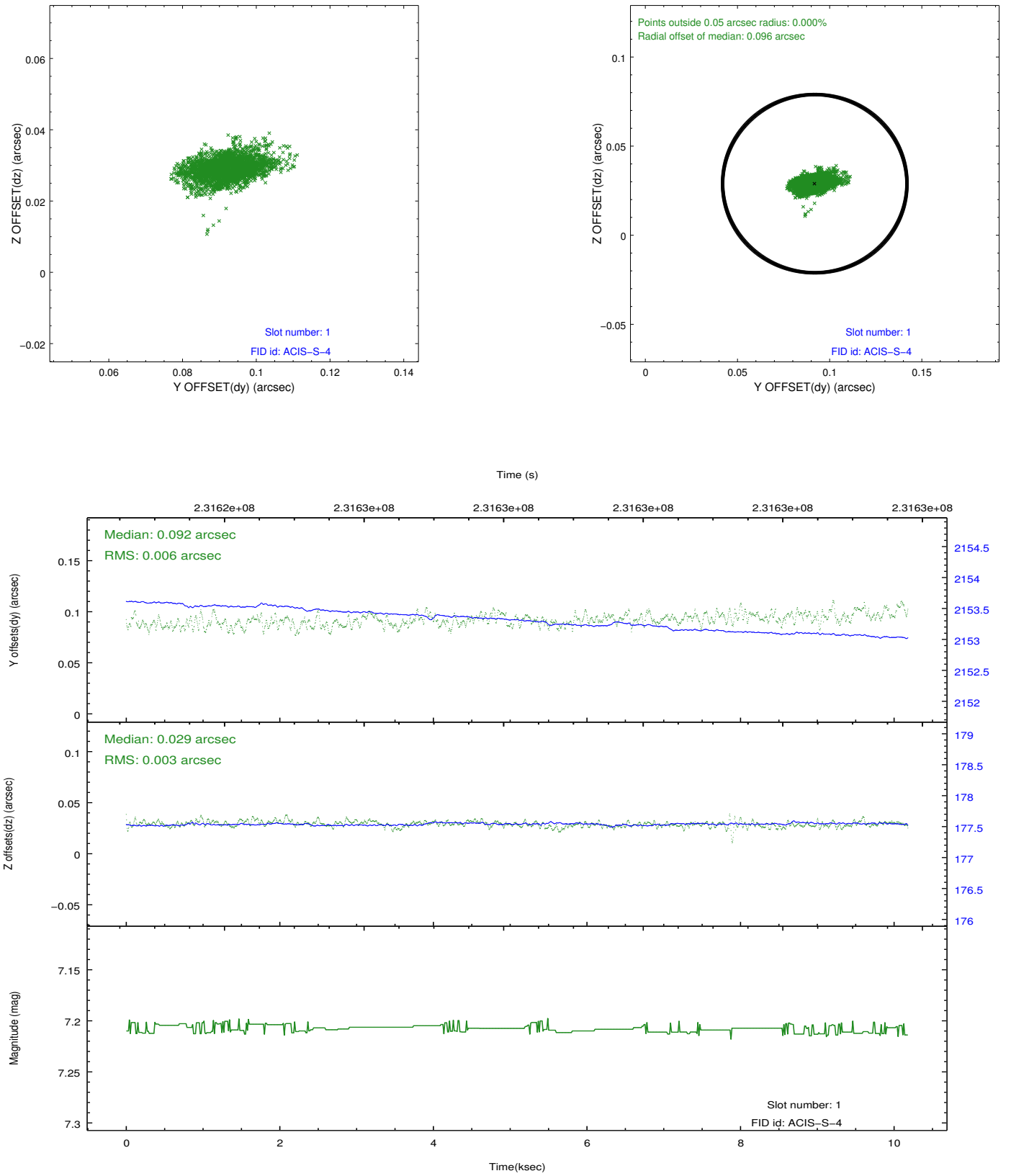


## 2.5 FID Slots

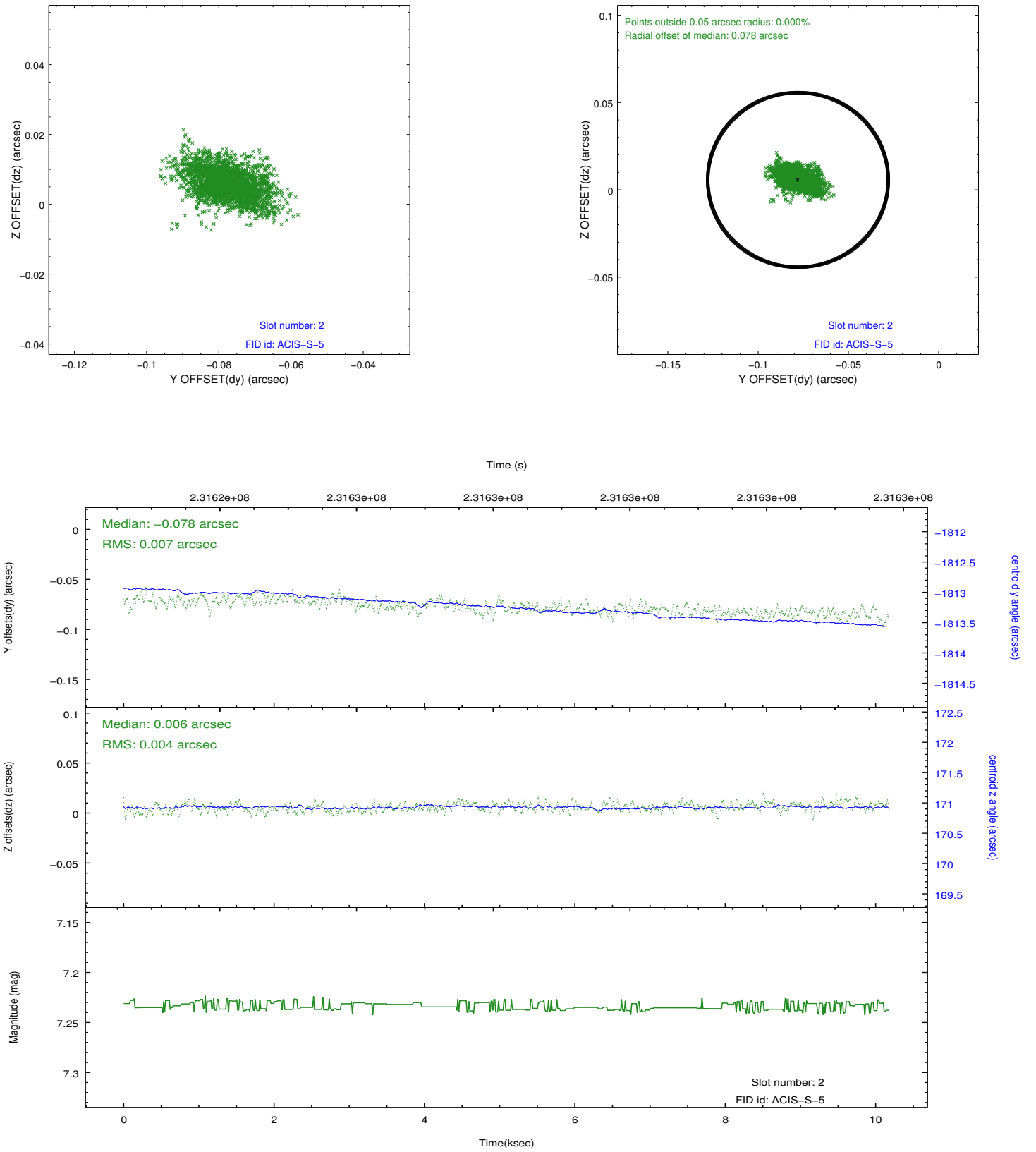
### 2.5.1 Slot 0



## 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)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1808

### A.2 Comments