

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 954 - L2 Version 4
Chandra X-Ray Center

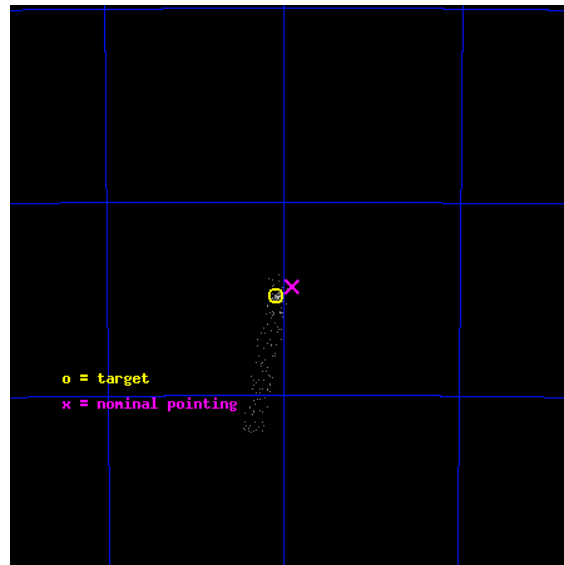
L2 Processing Date : Aug 24 2012

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1 Front

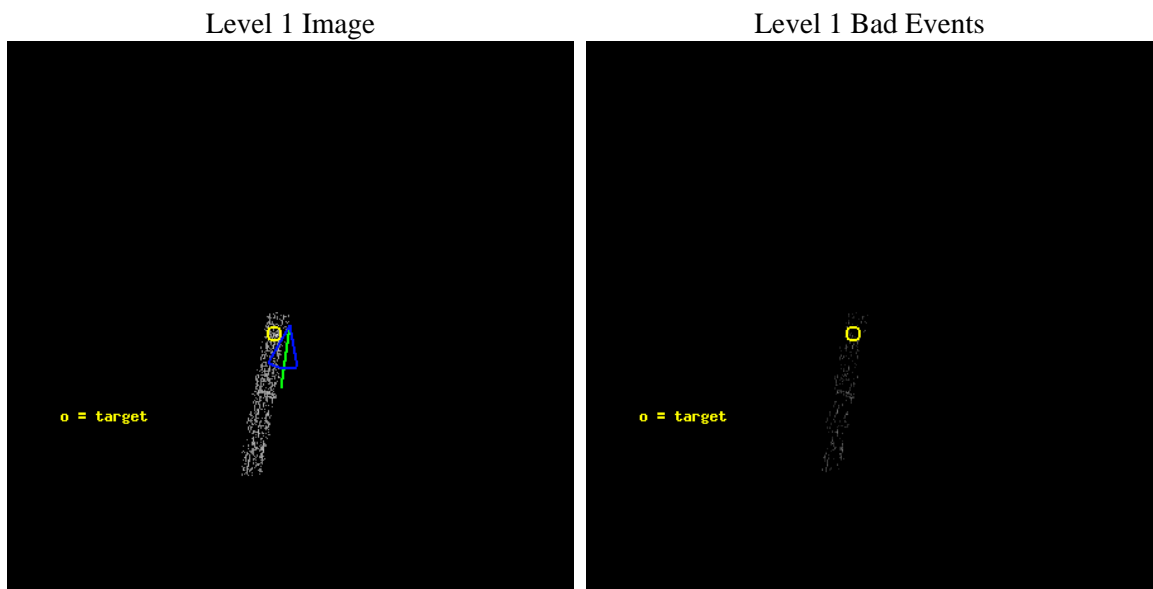
seq_num	300029	Sequence number
obs_id	954	Observation id
title	DIFFUSE X-RAY EMISSION IN GLOBULARS: HOT GAS VS. NON-THERMAL EMISSION IN 47 TUC	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	47 TUC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.0243	Observer's specified target RA [deg]
dec_targ	-72.0809	Observer's specified target Dec [deg]
ra_nom	5.9771581872658	Nominal RA [deg]
dec_nom	-72.073037714025	Nominal Dec [deg]
roll_nom	189.93776296212	Nominal Roll [deg]
revision	4	Processing version of data
ontime	914.5	Sum of GTIs [s]
livetime	845.13159840307	Livetime [s]
ontime3	914.5	Sum of GTIs [s]
l2events	343	Number of level 2 events



2 OBI

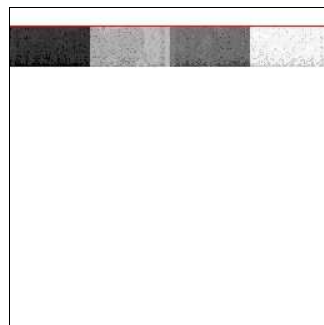
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	914.5	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime3	914.5	Sum of GTIs [s]
date	2012-08-24T13:13:24	Date and time of file creation	l1events	1746	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

	ccd 3
level 1 events	1746
rejected events	1379
rejected %	78%

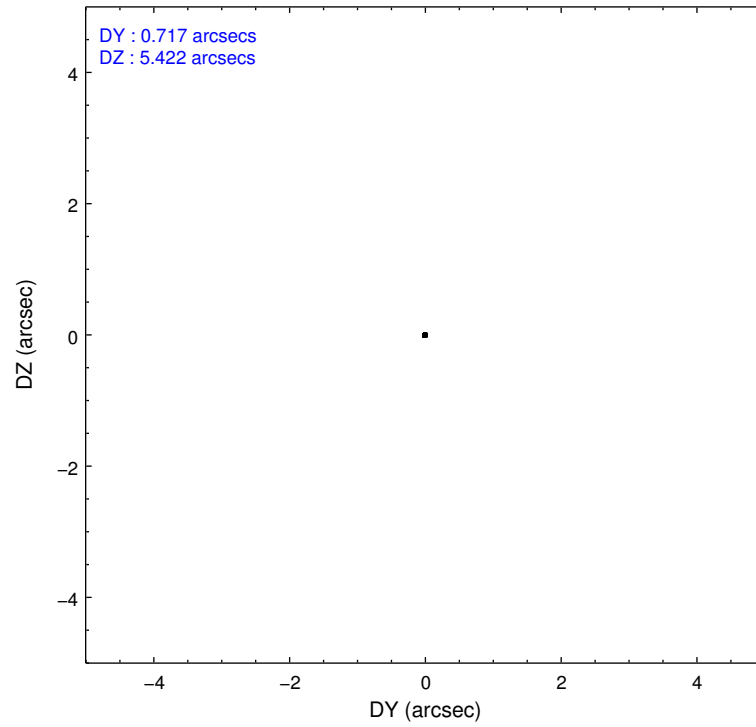
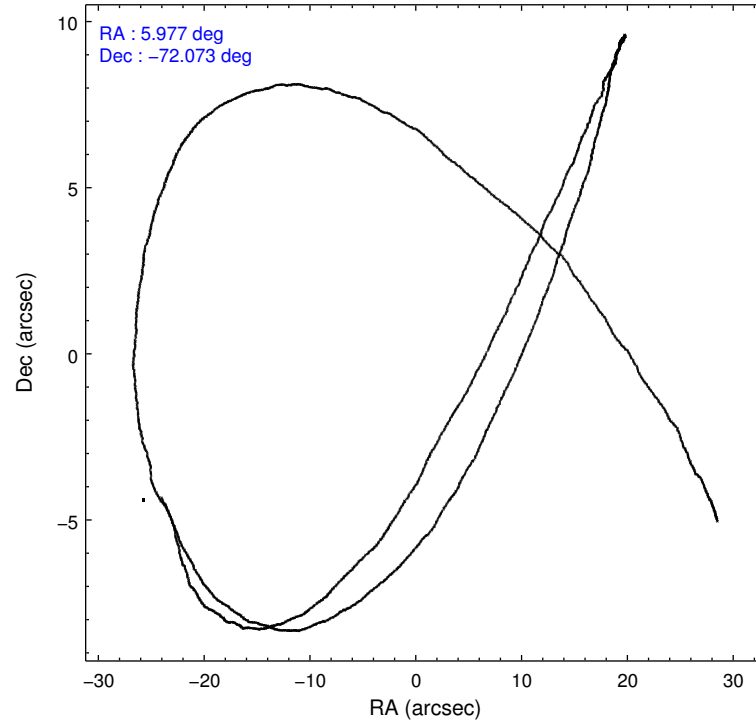
	ccd 3
grade 0 events	250
	14%
grade 1 events	1
	0%
grade 2 events	37
	2%
grade 3 events	30
	1%
grade 4 events	25
	1%
grade 5 events	21
	1%
grade 6 events	25
	1%
grade 7 events	1357
	77%

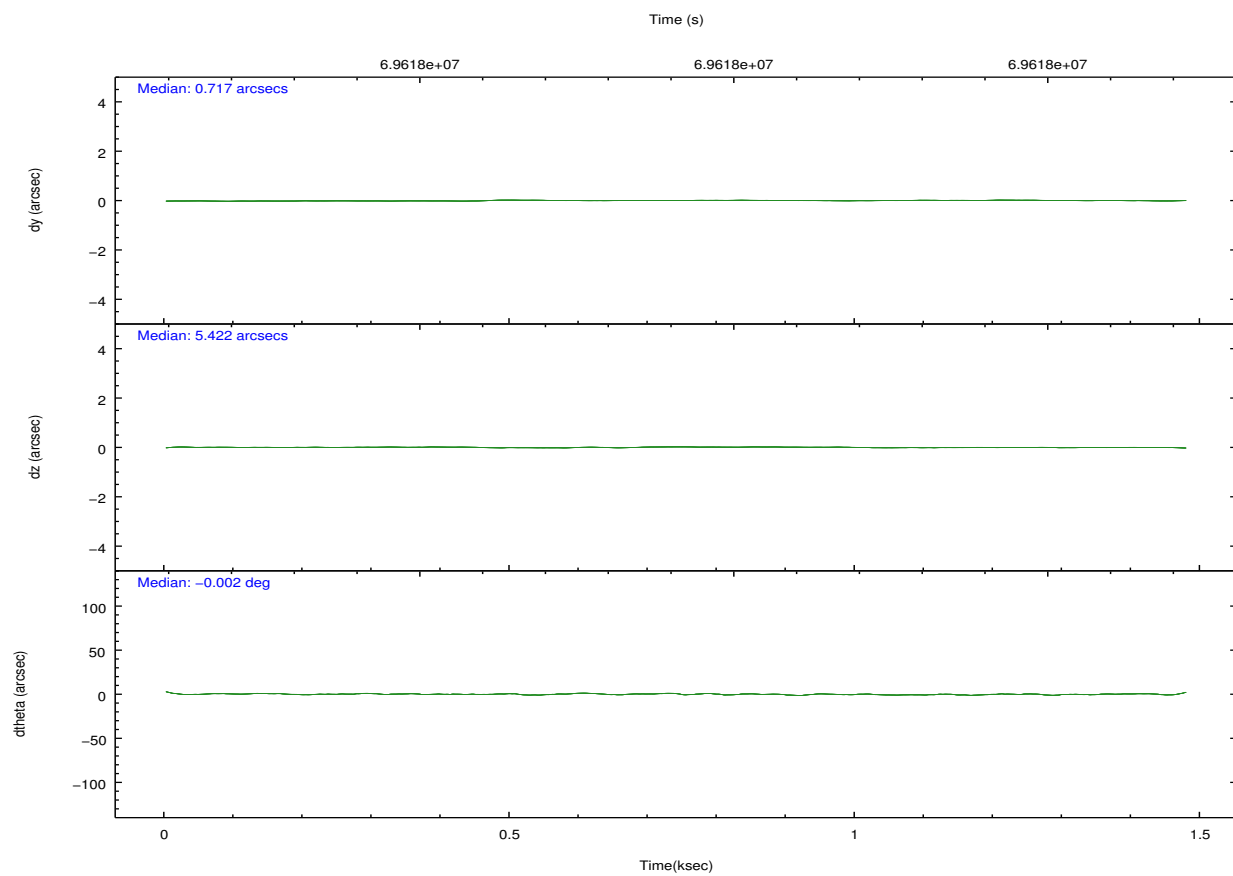
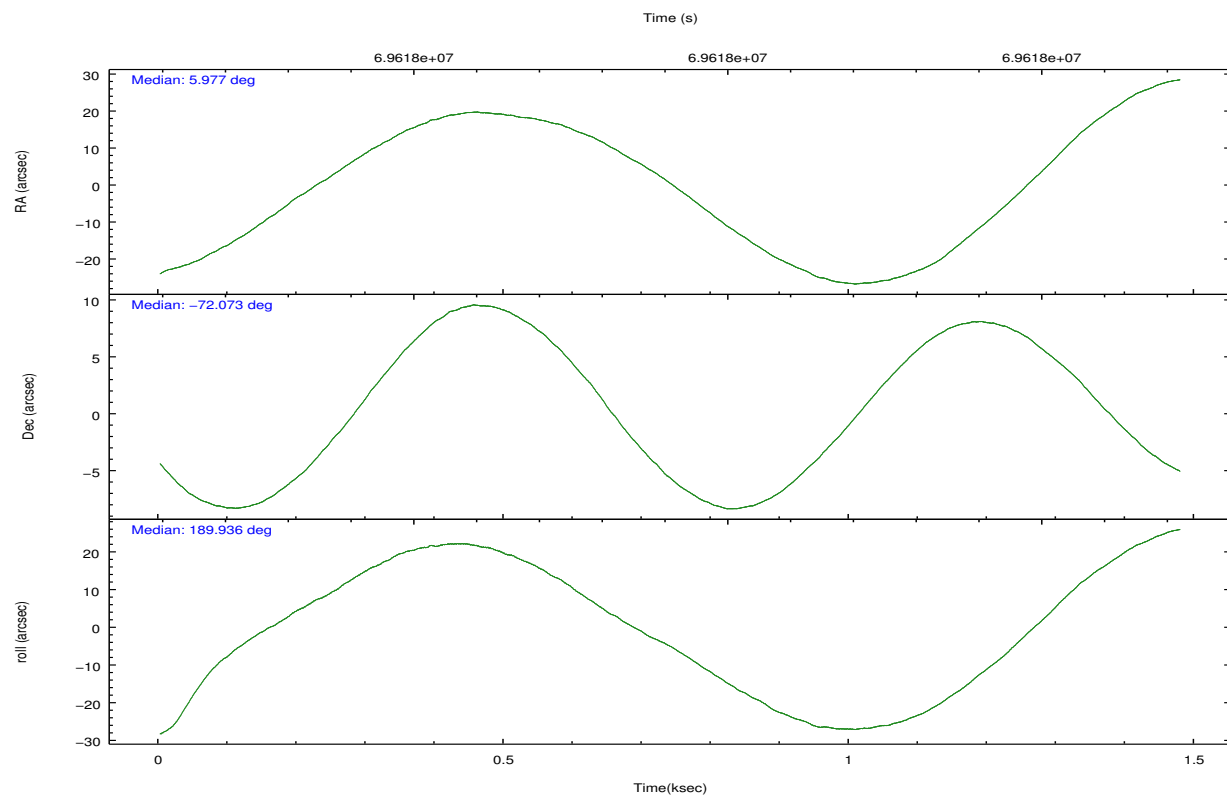
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3	ACIS-3
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	6.046238	5.977158187265779
[deg] Pointing Dec	-72.055369	-72.07303771402516
[deg] Pointing Roll	189.794828	189.9377629621185
[deg] Roll angle	190.000000	190.000000
[deg] Roll tolerance	20.000000	20.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	69617650.184000	69616983.49013899
Observation start date	2000-03-16T18:13:06	2000-03-16T18:03:03
[s] Observation end time (MET)	69618650.184000	69618783.902705
Observation end date	2000-03-16T18:29:46	2000-03-16T18:33:03
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	840	840
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



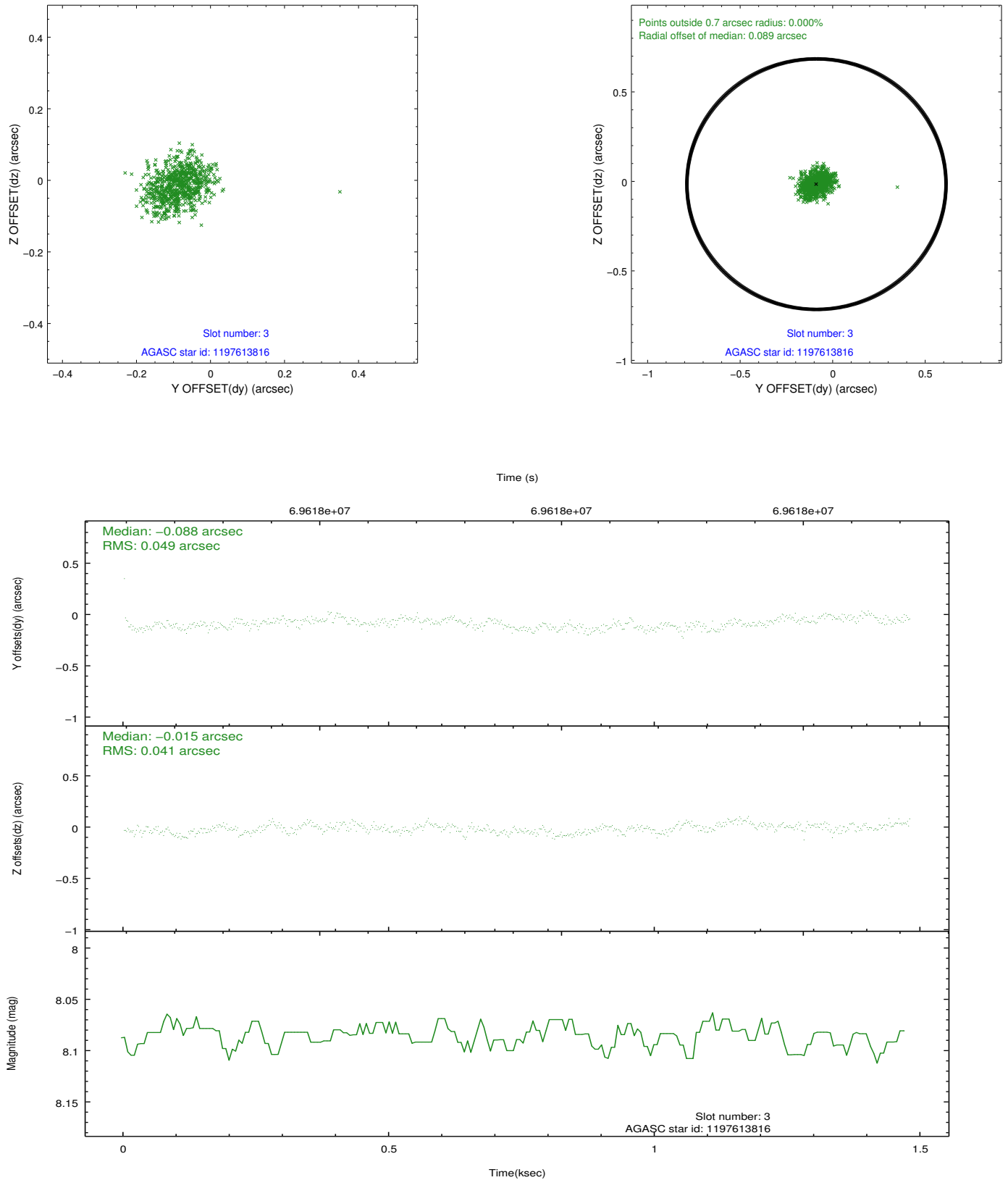


Slot Statistics

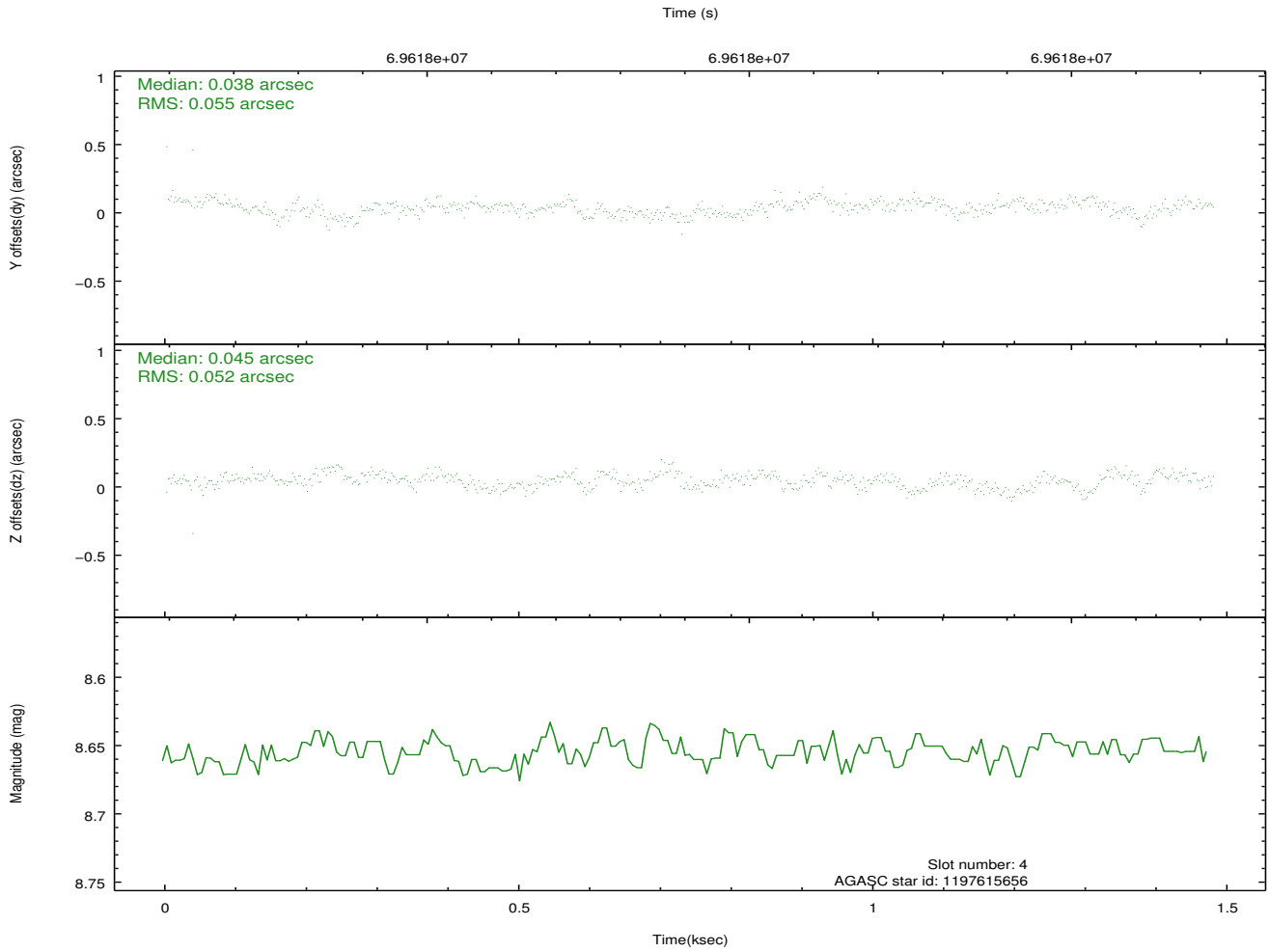
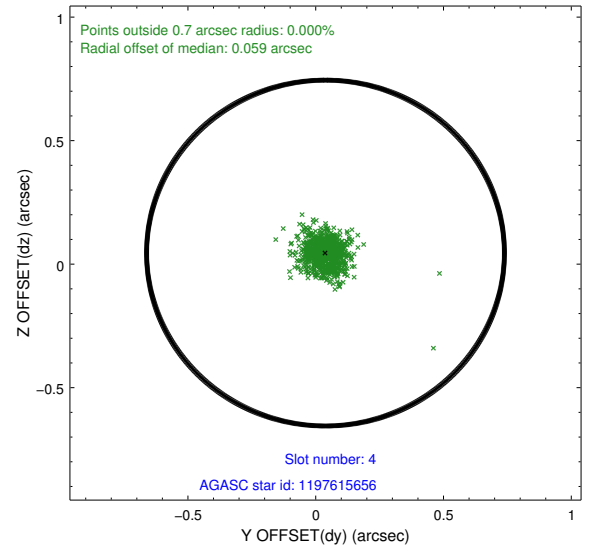
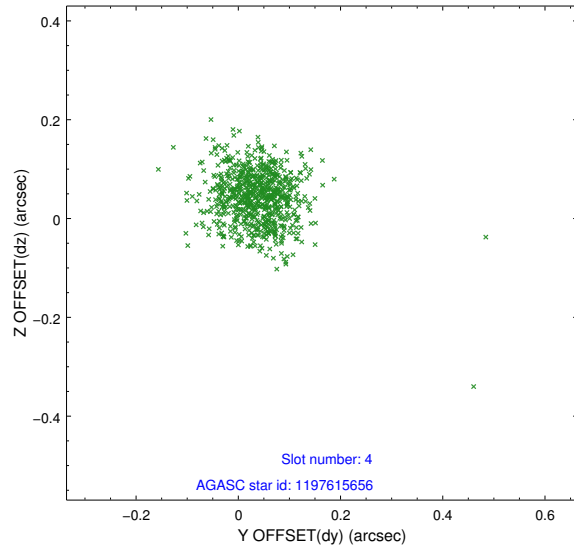
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	361	-0.026	-0.040	0.009	0.018	0.000000	0.000000	-755.06	-835.18
1	FID	ACIS-I-4	7.18	361	-0.042	0.035	0.006	0.010	0.000000	0.000000	2156.97	1068.83
2	FID	ACIS-I-5	7.23	361	-0.032	0.074	0.010	0.017	0.000000	0.000000	-1803.11	1071.82
3	GUIDE	1197613816	8.08	721	-0.088	-0.015	0.067	0.103	5.181461	-71.977993	902.68	-431.80
4	GUIDE	1197615656	8.66	722	0.038	0.045	0.076	0.126	6.909375	-71.882658	-1055.56	-442.37
5	GUIDE	1197607928	9.63	722	0.084	-0.006	0.089	0.156	7.837743	-72.165759	-1875.07	755.61
6	GUIDE	1197619752	10.01	722	0.056	0.012	0.131	0.218	4.510721	-71.856694	1575.50	-975.19
7	GUIDE	1197608712	10.08	720	-0.090	-0.033	0.110	0.177	5.990463	-72.316052	221.72	912.78

2.4 Star Slots

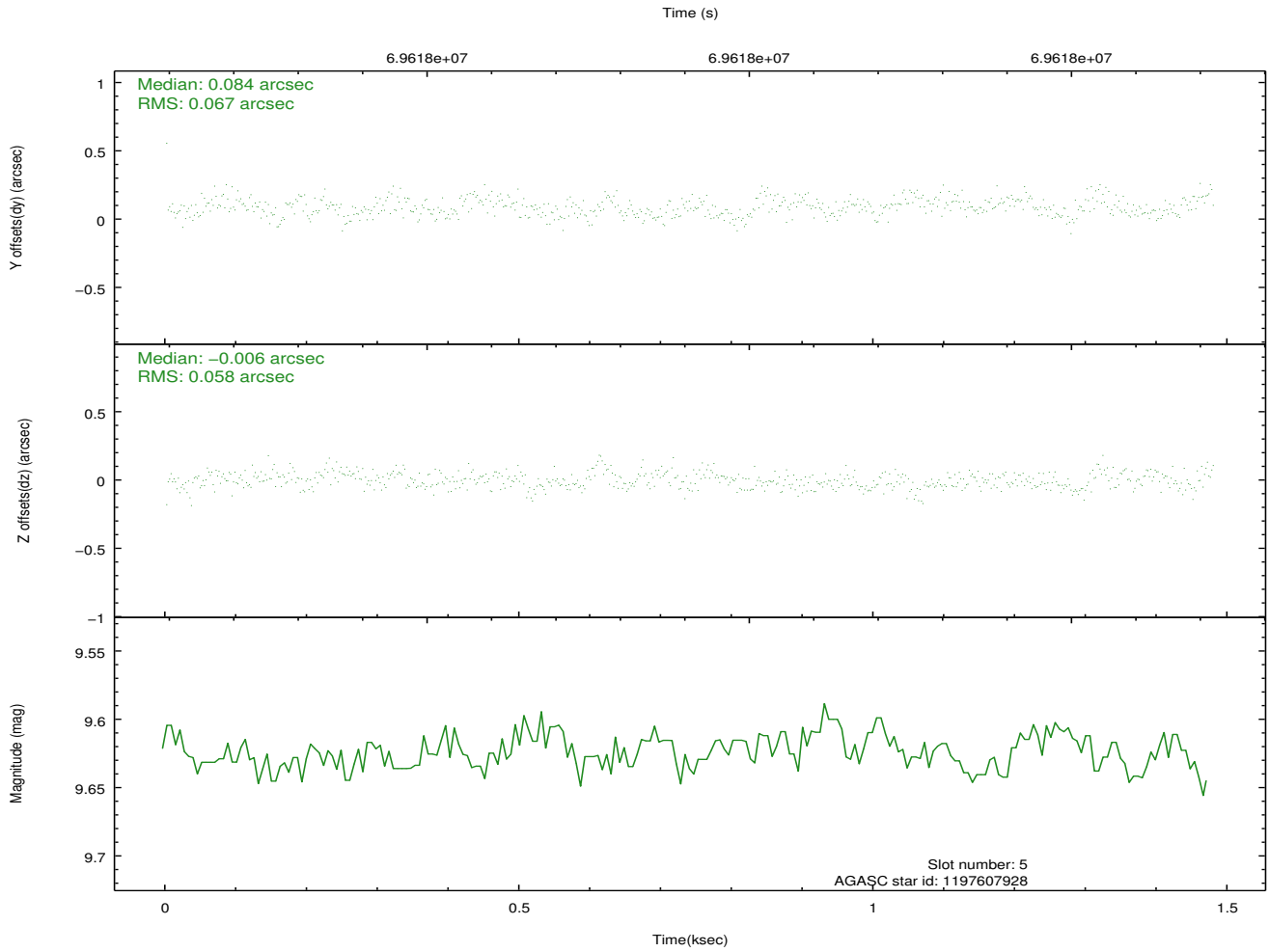
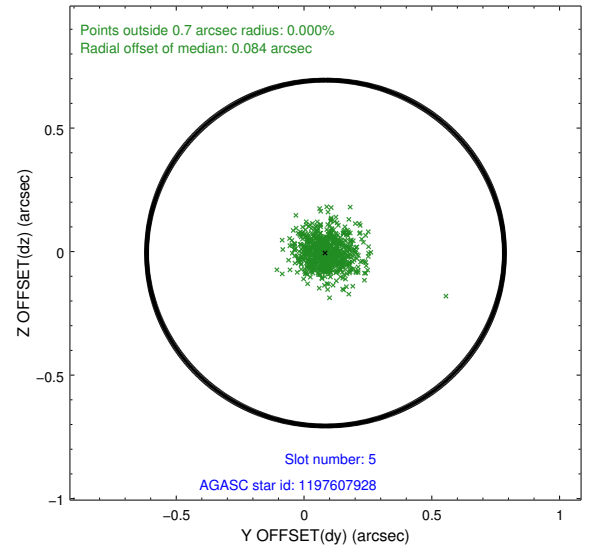
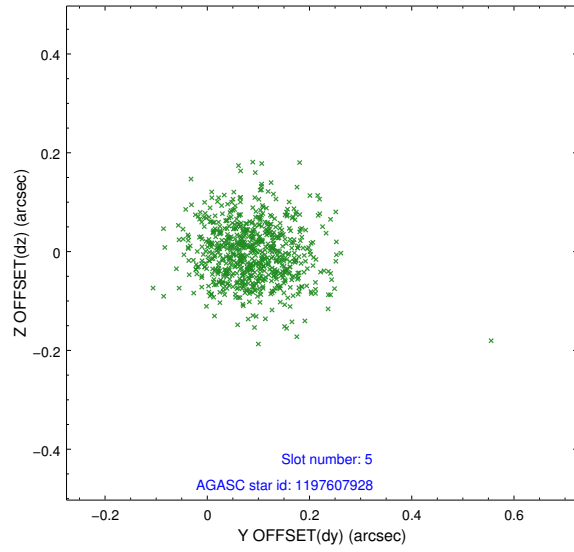
2.4.1 Slot 3



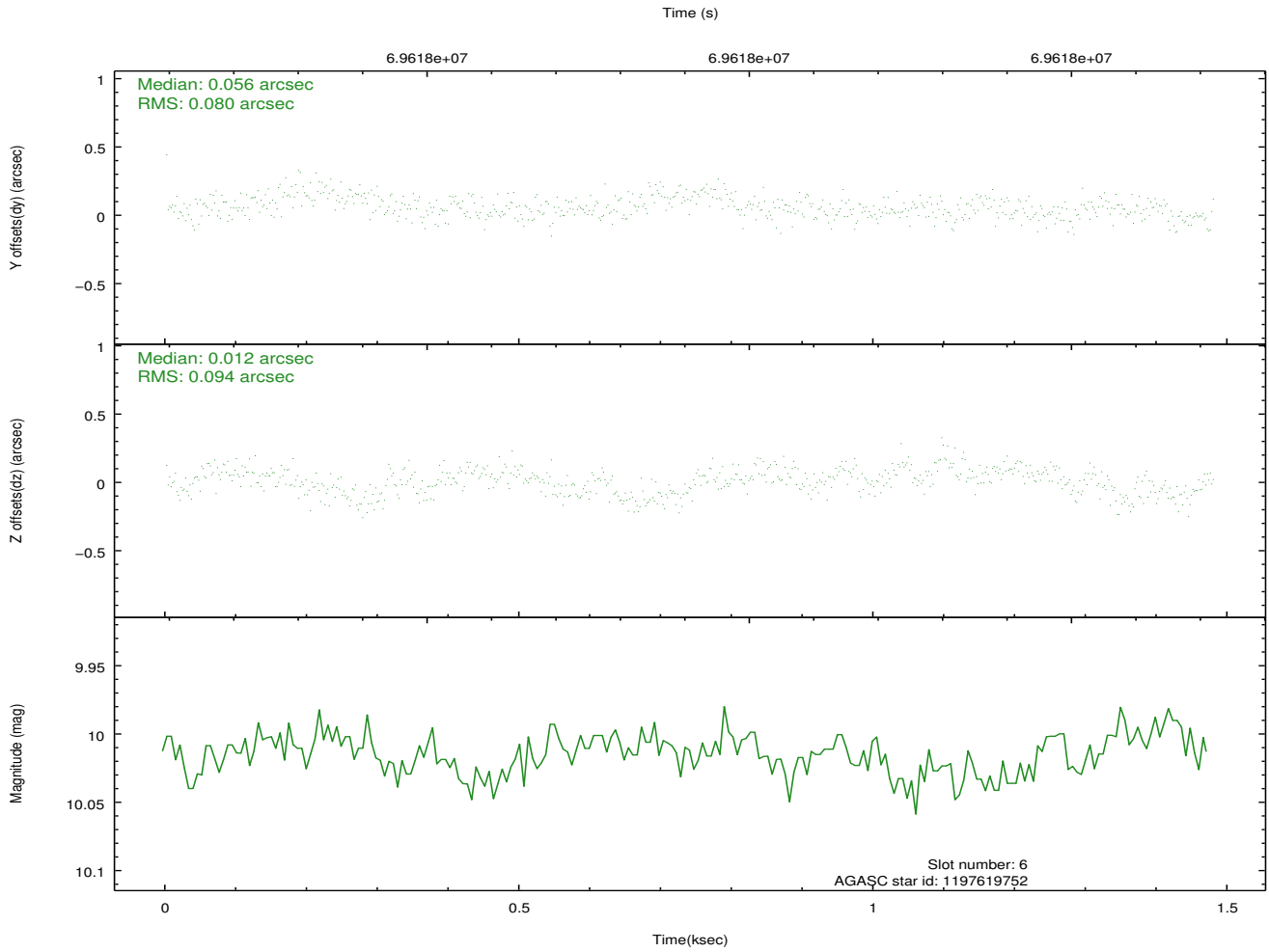
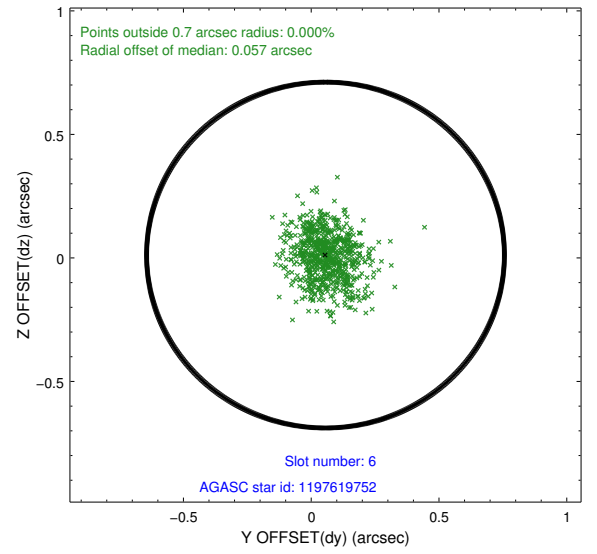
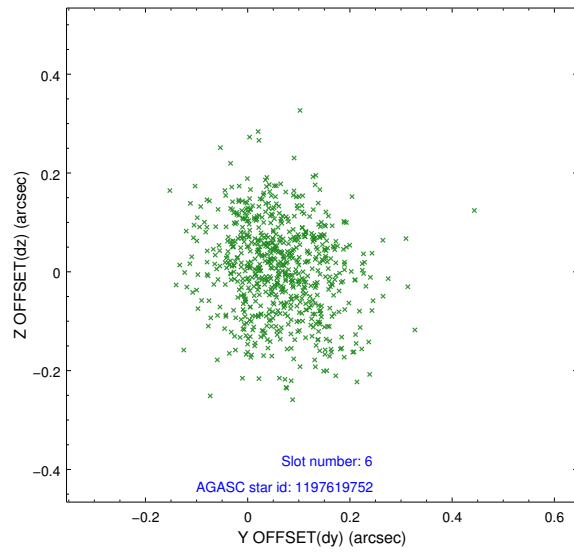
2.4.2 Slot 4



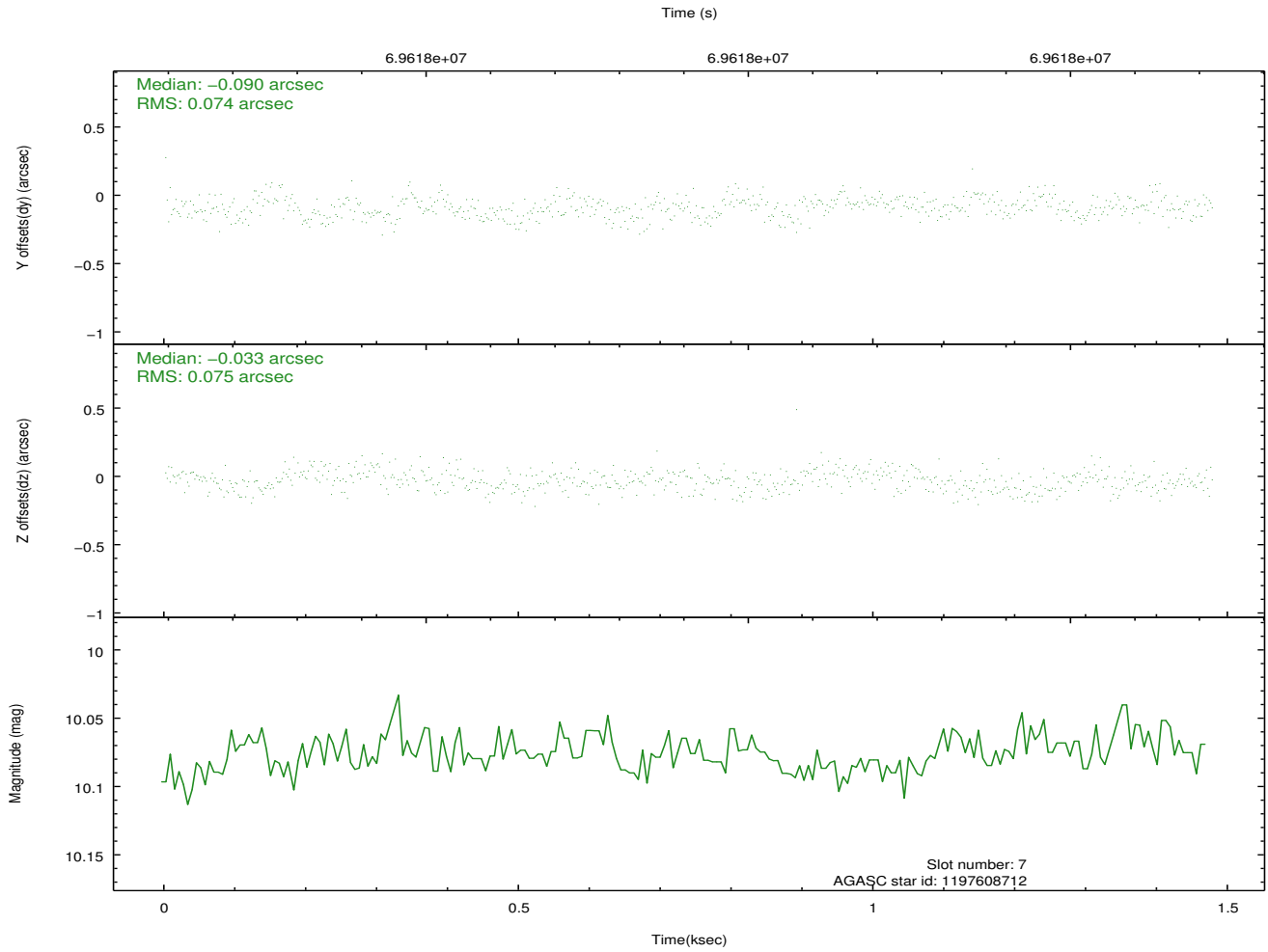
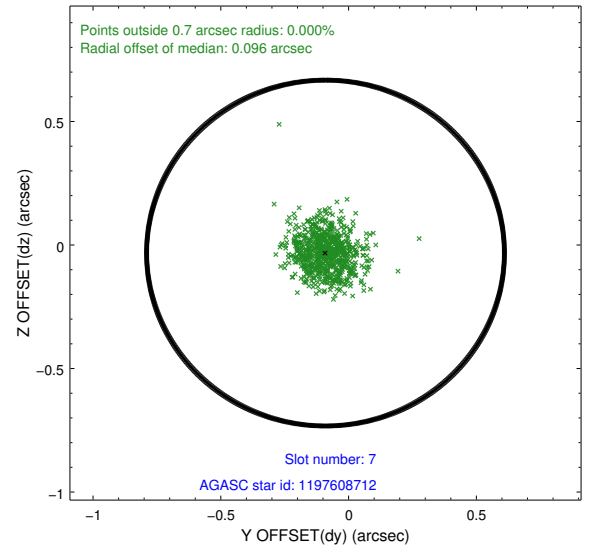
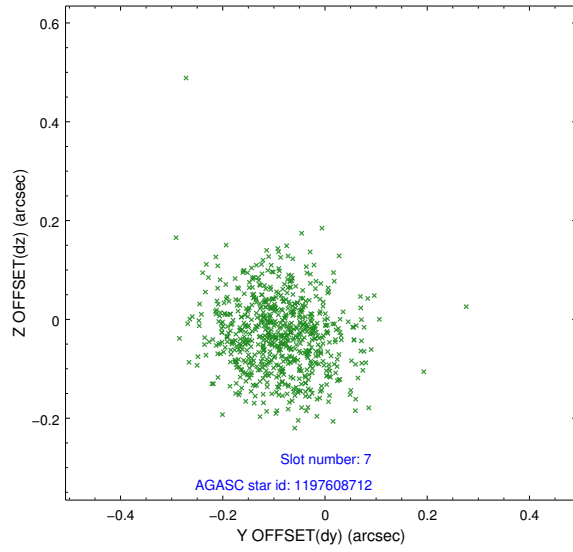
2.4.3 Slot 5



2.4.4 Slot 6

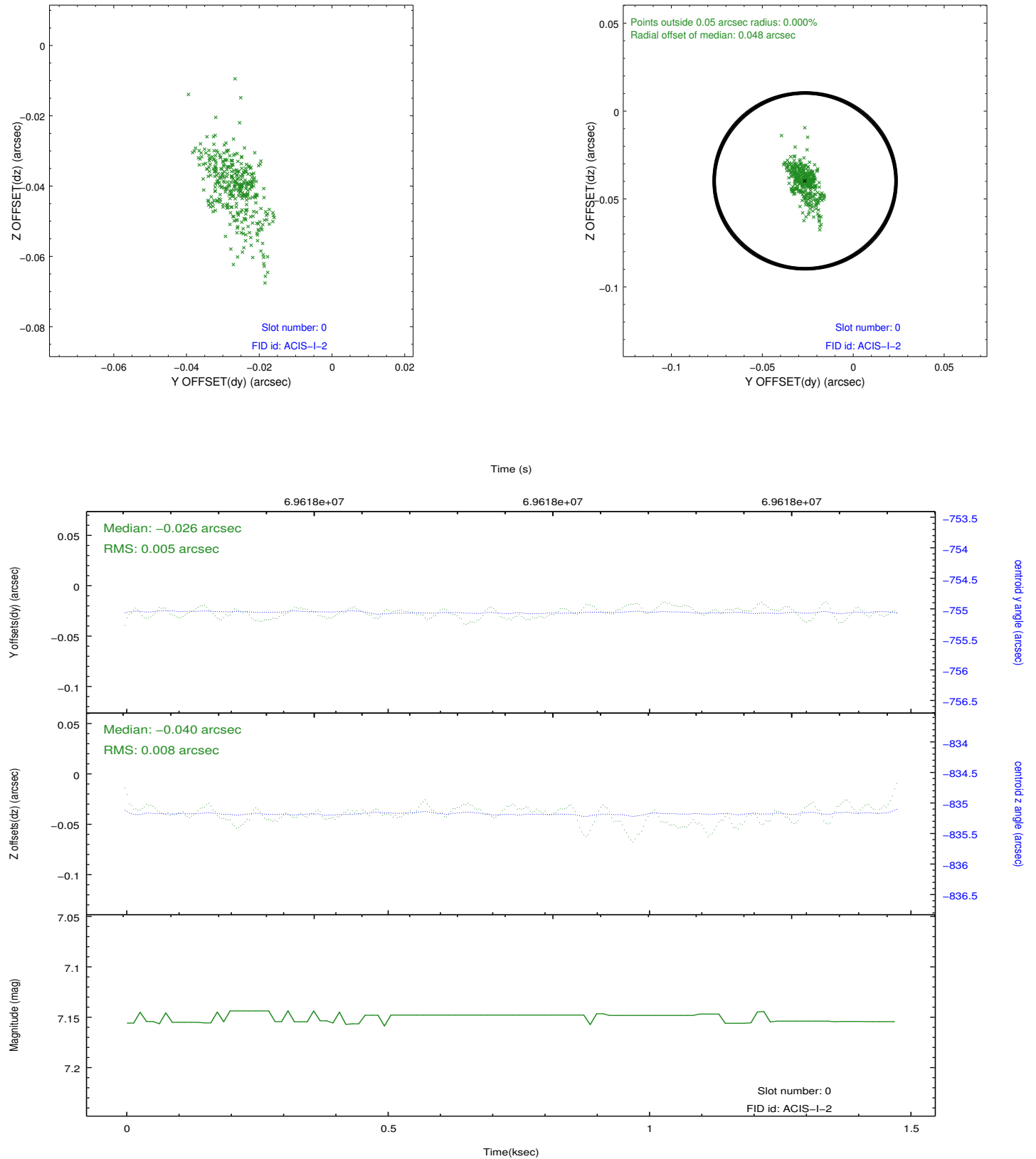


2.4.5 Slot 7

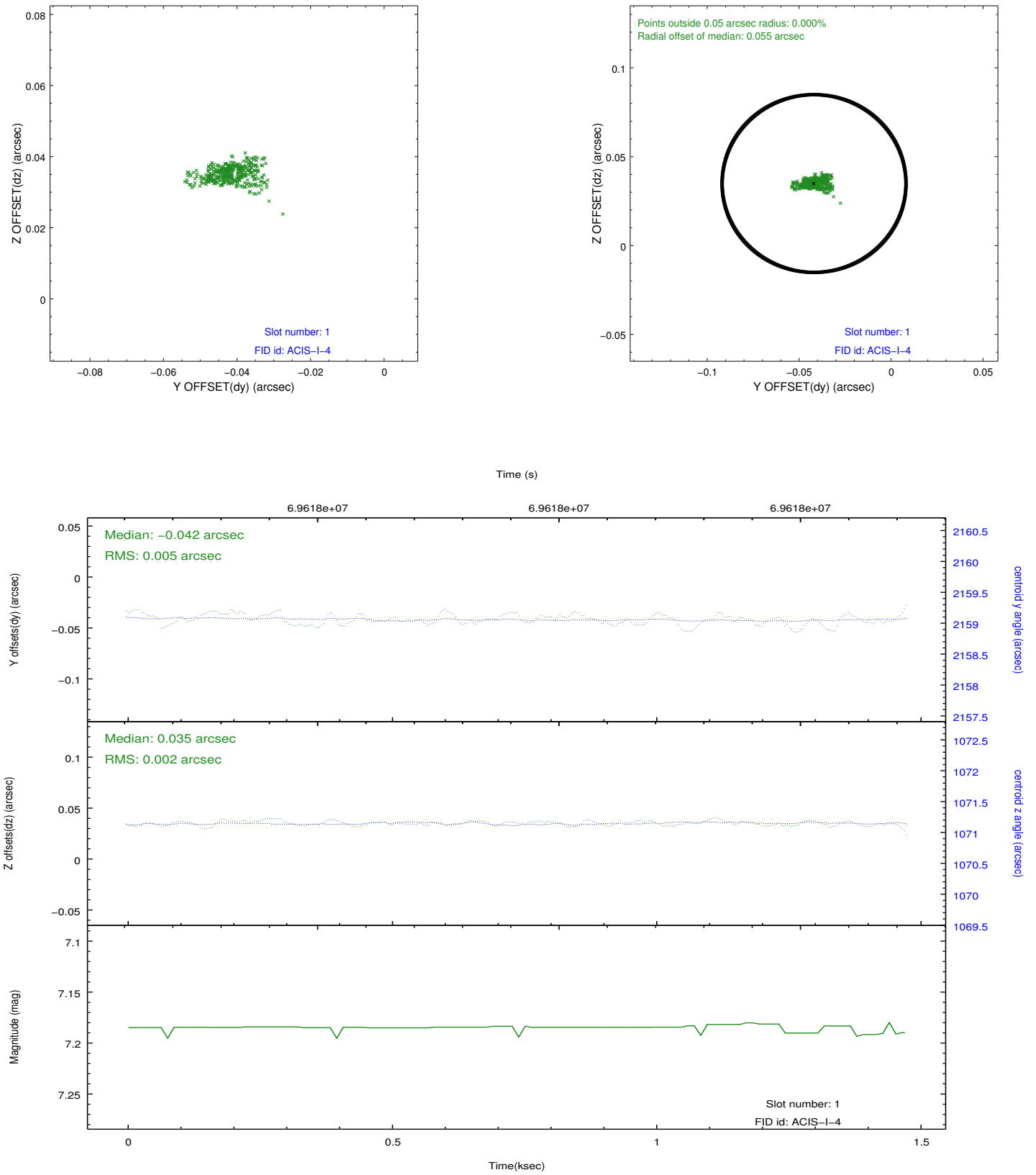


2.5 FID Slots

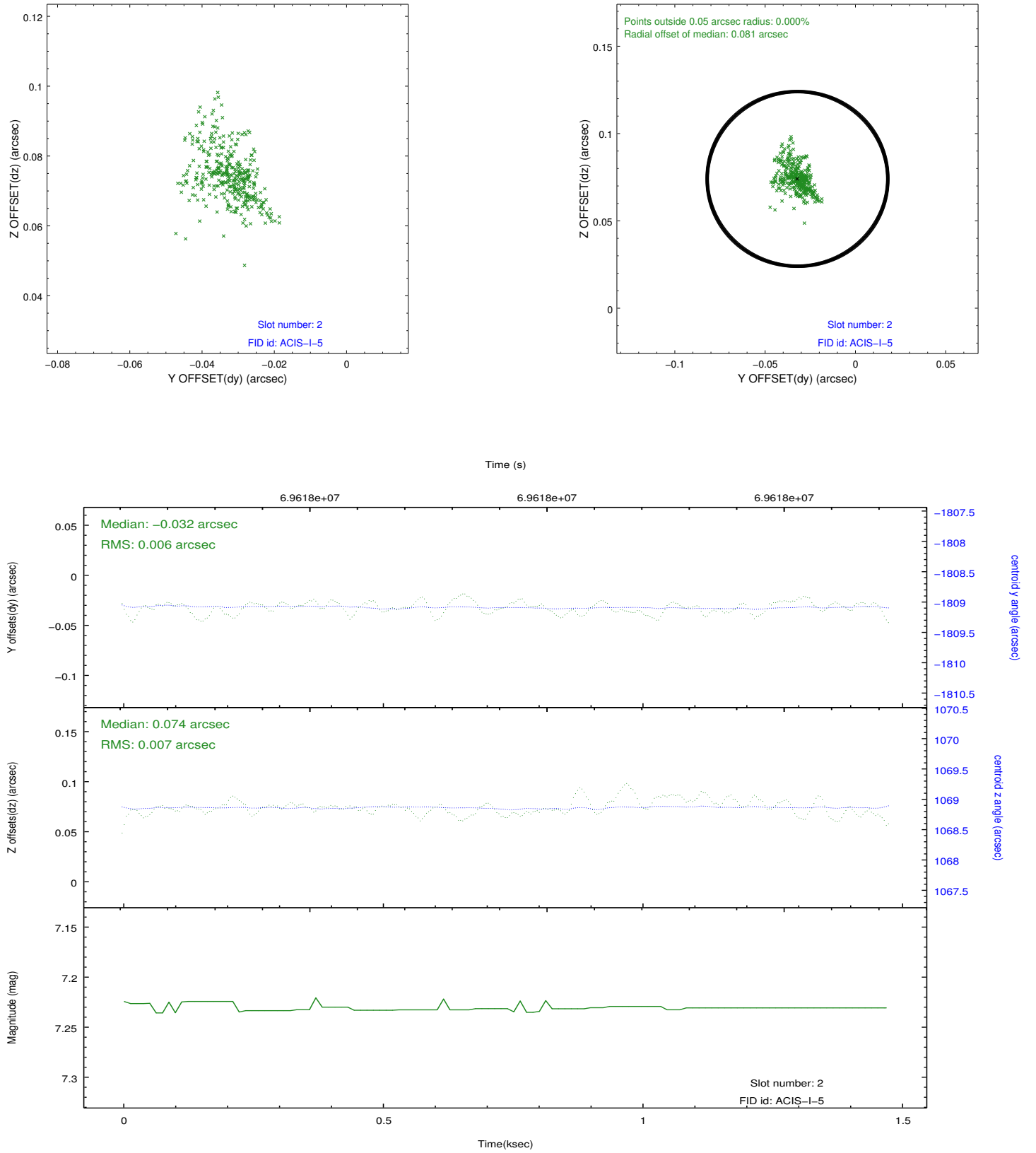
2.5.1 Slot 0



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)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.915

A.2 Comments

Roll constraint met. Monitor constraint met.