

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 16727 - L2 Version 1
Chandra X-Ray Center

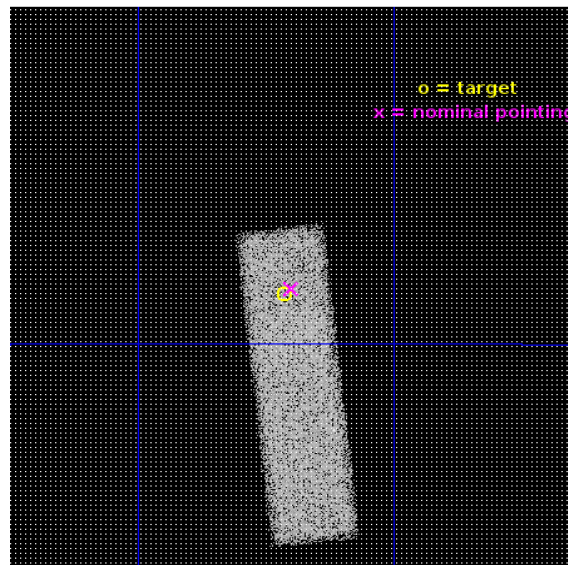
L2 Processing Date : May 18 2017

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1 Front

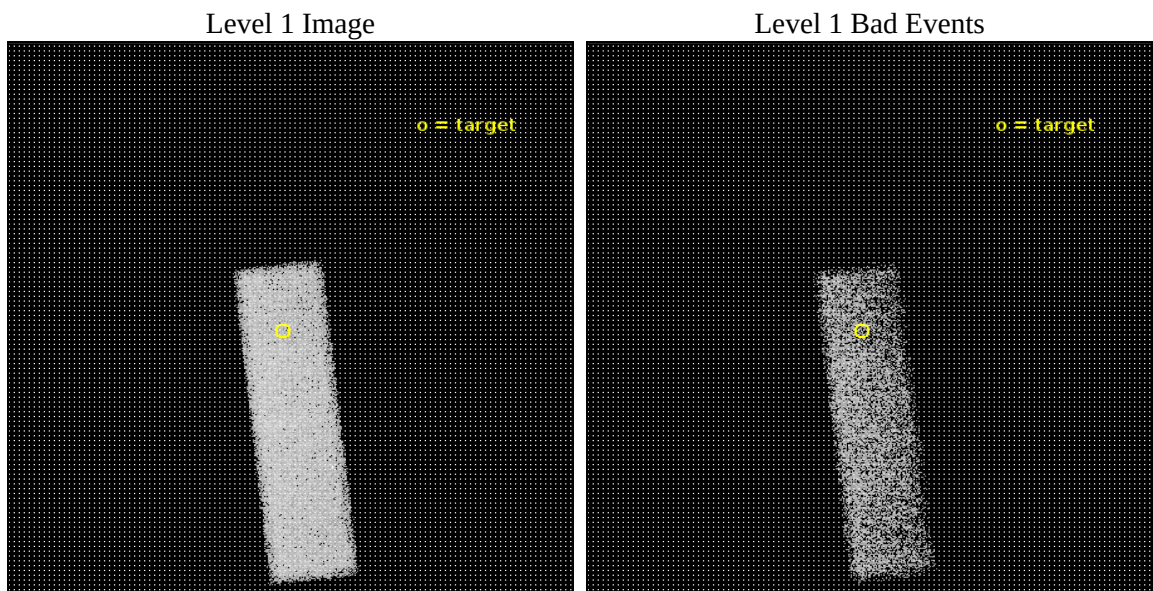
seq_num	401649	Sequence number
obs_id	16727	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	GRO J1750-27	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.303333	Observer's specified target RA [deg]
dec_targ	-26.644111	Observer's specified target Dec [deg]
ra_nom	267.29987202515	Nominal RA [deg]
dec_nom	-26.641617382331	Nominal Dec [deg]
roll_nom	83.539752998384	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30060.744635582	Sum of GTIs [s]
livetime	28593.878660308	Livetime [s]
ontime7	30060.744635582	Sum of GTIs [s]
l2events	35330	Number of level 2 events



2 OBI

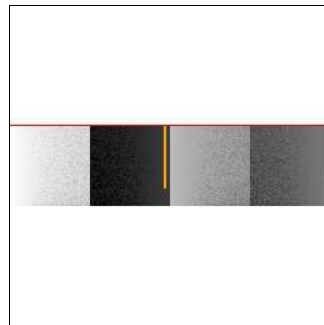
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	30060.744635582	Sum of GTIs [s]
caldsver	4.7.4	 	ontime7	30060.744635582	Sum of GTIs [s]
date	2017-05-18T13:51:09	Date and time of file creation	l1events	74174	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

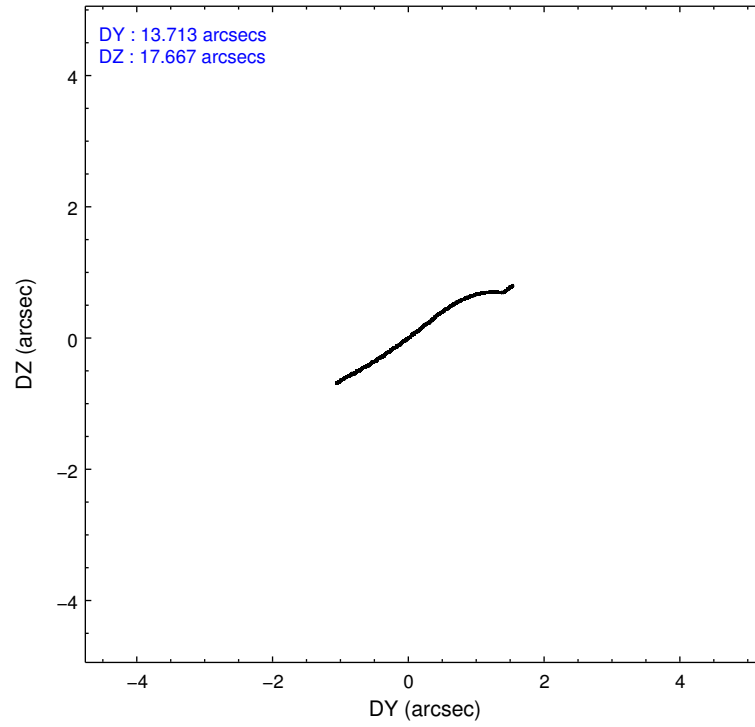
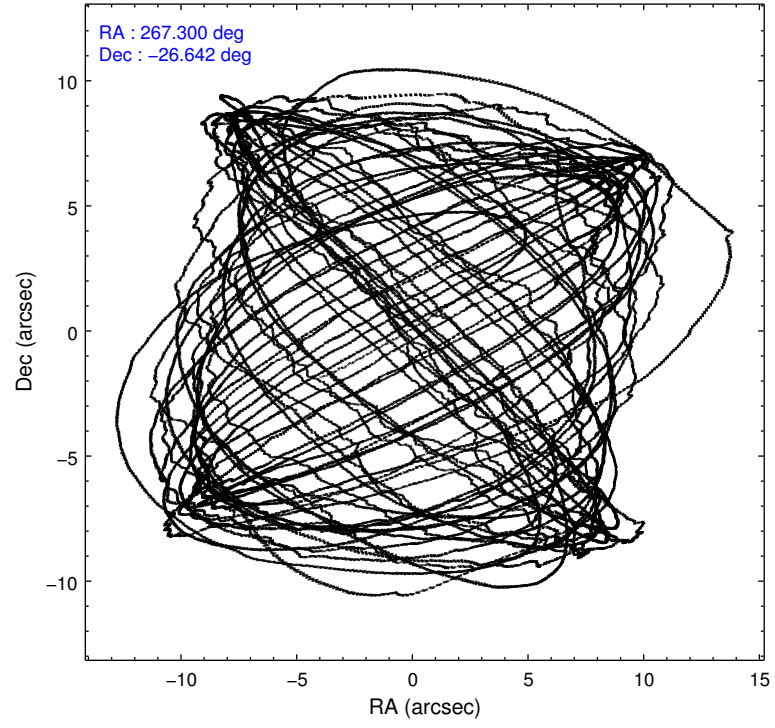
	ccd 7
level 1 events	74174
rejected events	37666
rejected %	50%

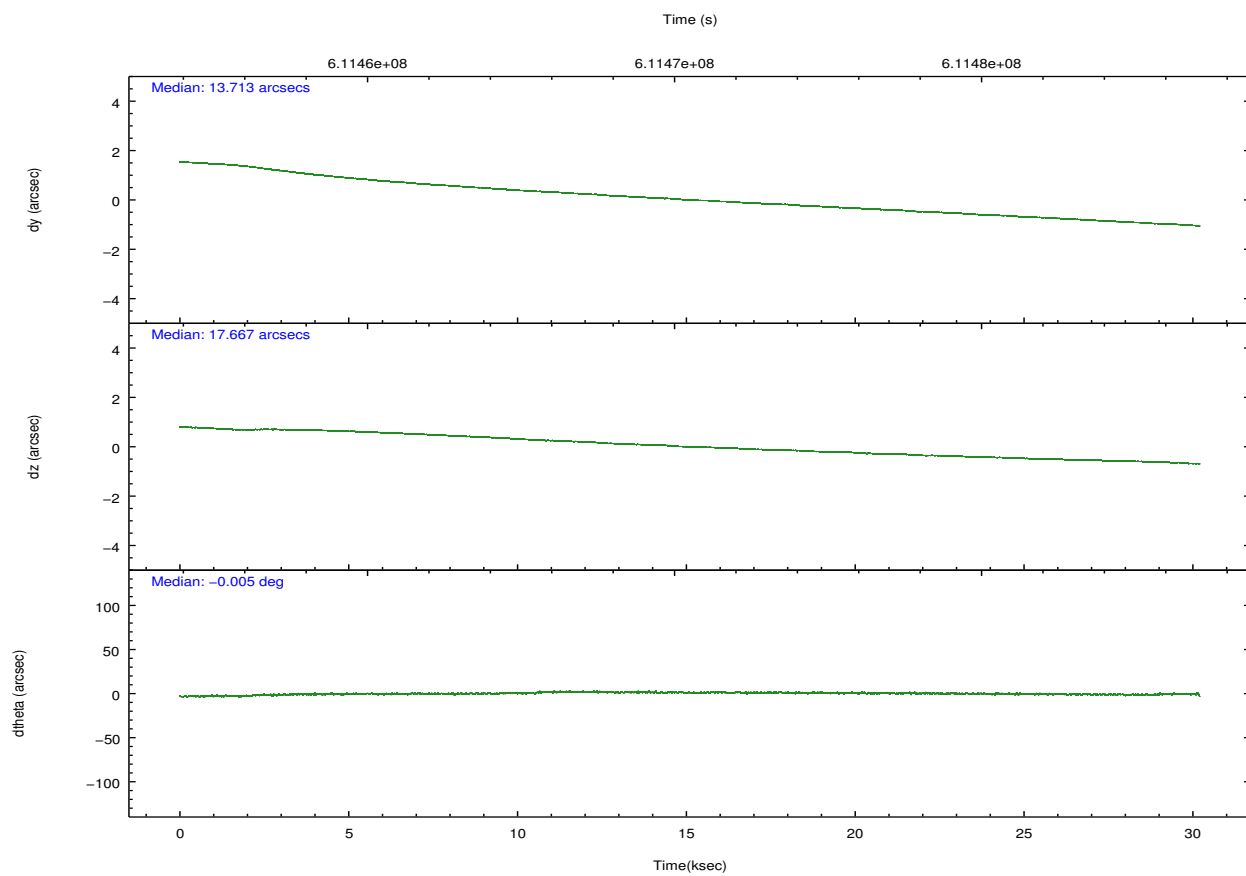
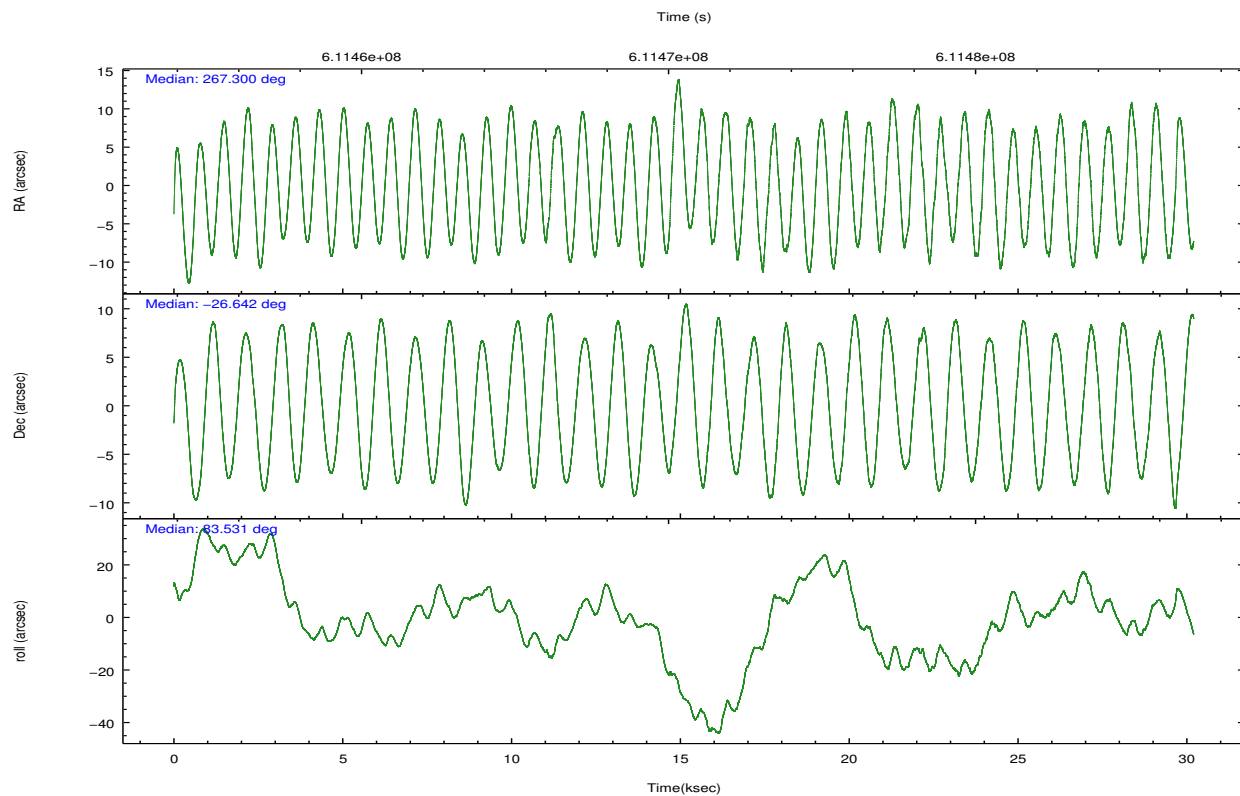
	ccd 7
grade 0 events	3824
	5%
grade 1 events	121
	0%
grade 2 events	7523
	10%
grade 3 events	4016
	5%
grade 4 events	3927
	5%
grade 5 events	7505
	10%
grade 6 events	17223
	23%
grade 7 events	30035
	40%

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	267.312517	267.2998720251492	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-26.666637	-26.64161738233051	Subarray start row	385	385
[deg] Pointing Roll	83.388786	83.53975299838396	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	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	611455583.184000	611454650.55007			
Observation start date	2017-05-18T00:45:14	2017-05-18T00:30:50			
[s] Observation end time (MET)	611485583.184000	611486464.50192			
Observation end date	2017-05-18T09:05:14	2017-05-18T09:21:04			
Read mode	TIMED	TIMED			

2.3 Aspect



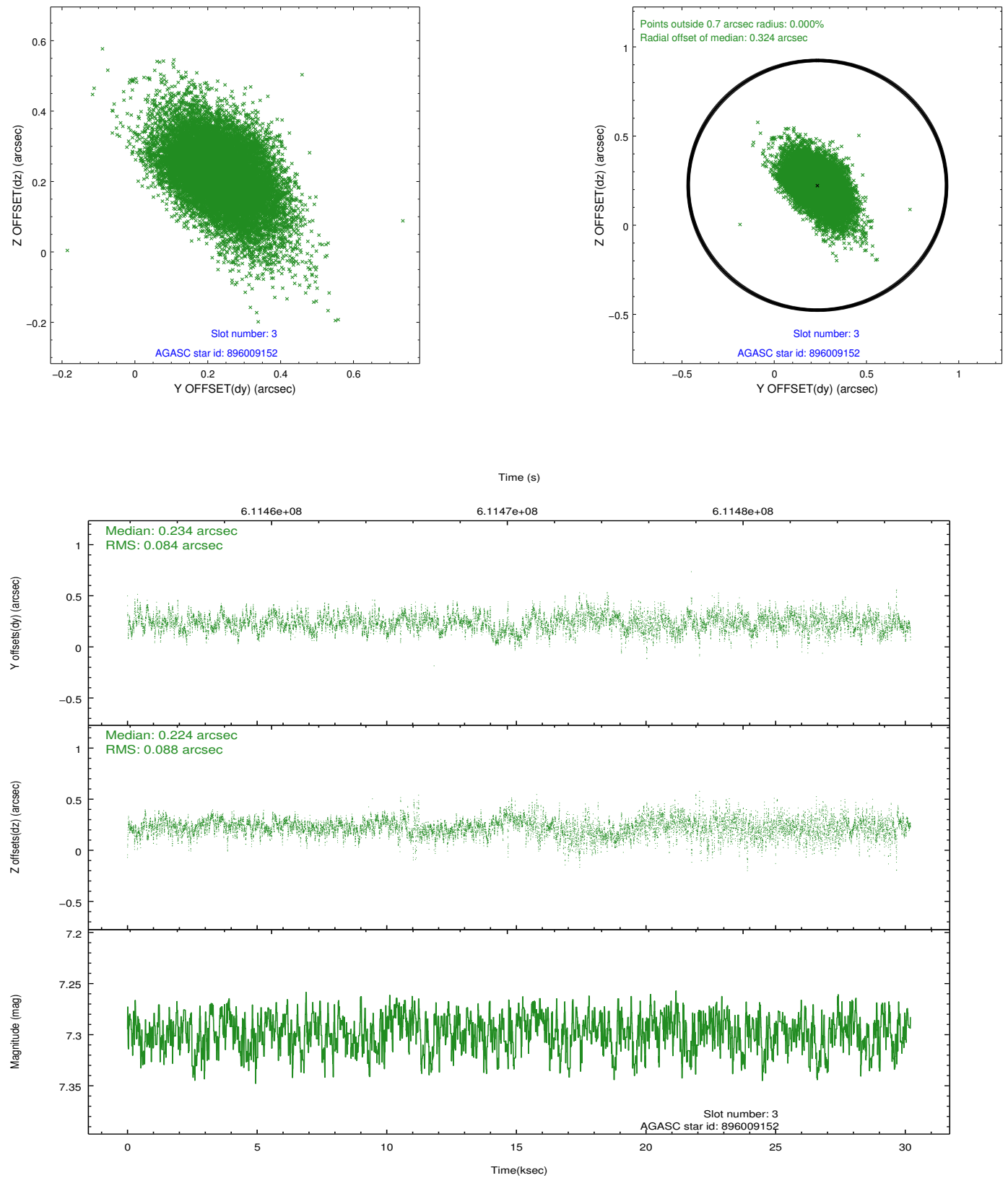


Slot Statistics

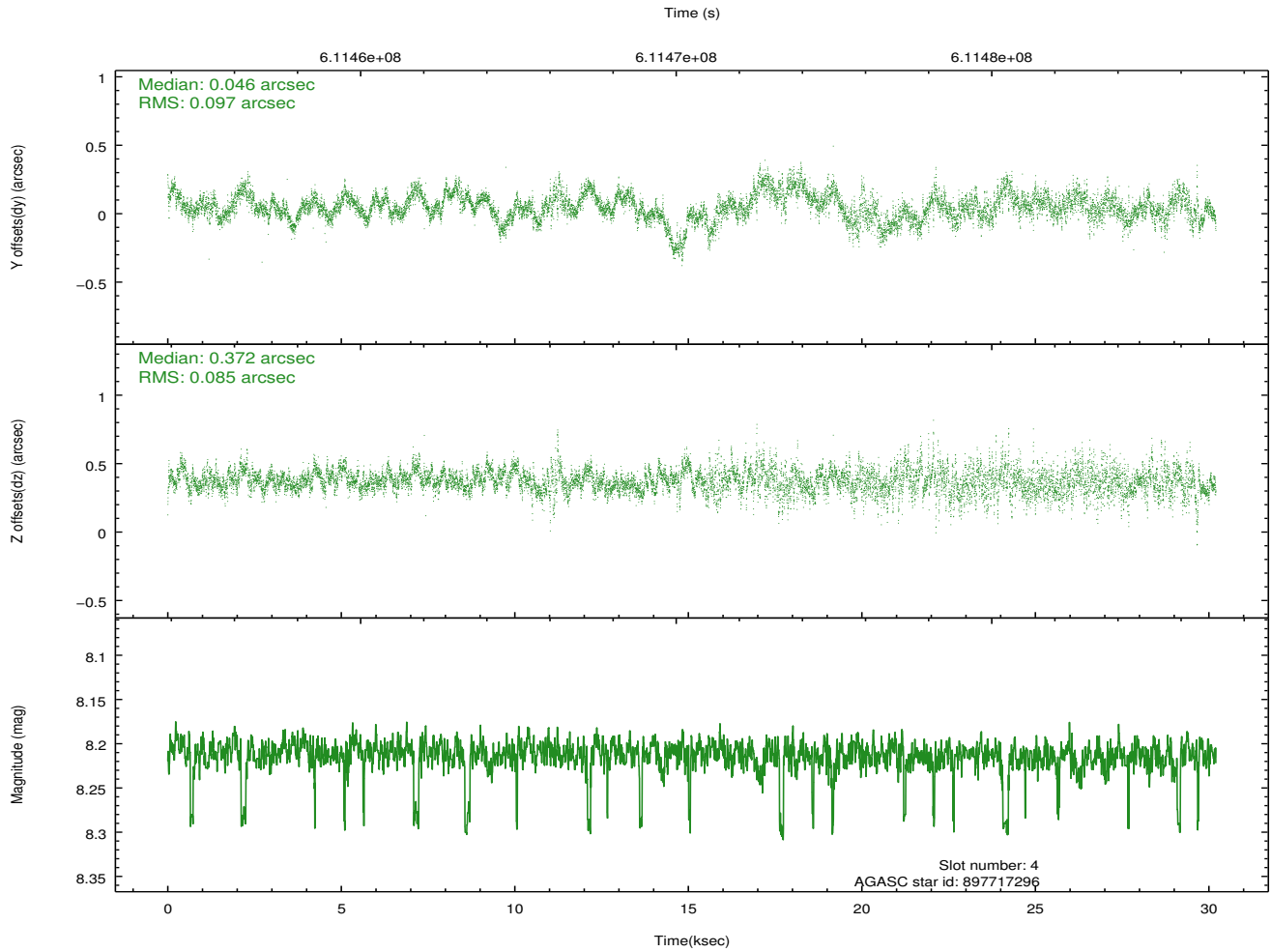
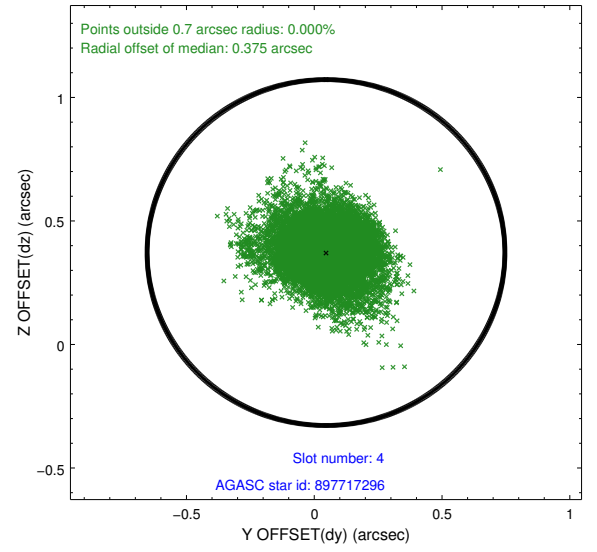
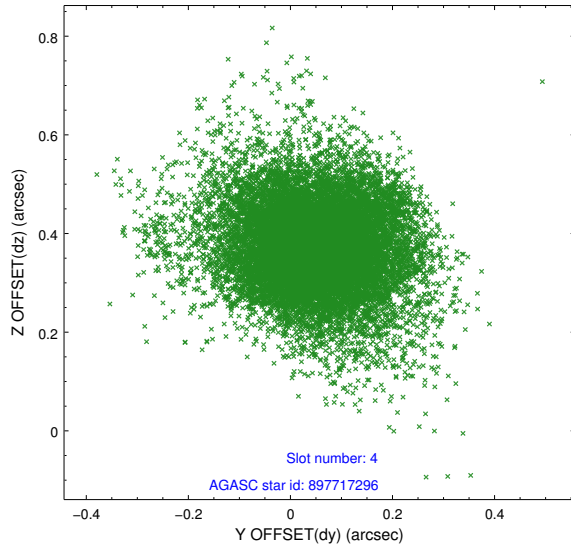
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.11	7366	0.370	0.024	0.015	0.031	0.000000	0.000000	2146.98	169.55
1	FID		ACIS-S-5	7.12	7365	-0.427	0.009	0.020	0.048	0.000000	0.000000	-1819.91	162.96
2	FID		ACIS-S-6	7.26	7365	0.027	-0.019	0.018	0.028	0.000000	0.000000	394.81	806.71
3	GUIDE	used	896009152	7.30	14733	0.234	0.224	0.124	0.219	267.588100	-27.061669	-1312.18	-1040.92
4	GUIDE	used	897717296	8.21	14726	0.046	0.372	0.131	0.235	267.921819	-26.875322	-525.28	-2030.06
5	GUIDE	used	897718208	7.71	14731	0.020	0.420	0.122	0.235	268.020133	-26.836183	-350.43	-2328.39
6	GUIDE	used	896015112	9.14	14713	-0.384	-0.720	0.160	0.329	266.684847	-26.286161	1121.86	2169.25
7	GUIDE	used	896013056	8.51	14725	0.080	-0.296	0.120	0.239	266.762141	-26.954413	-1236.22	1634.67

2.4 Star Slots

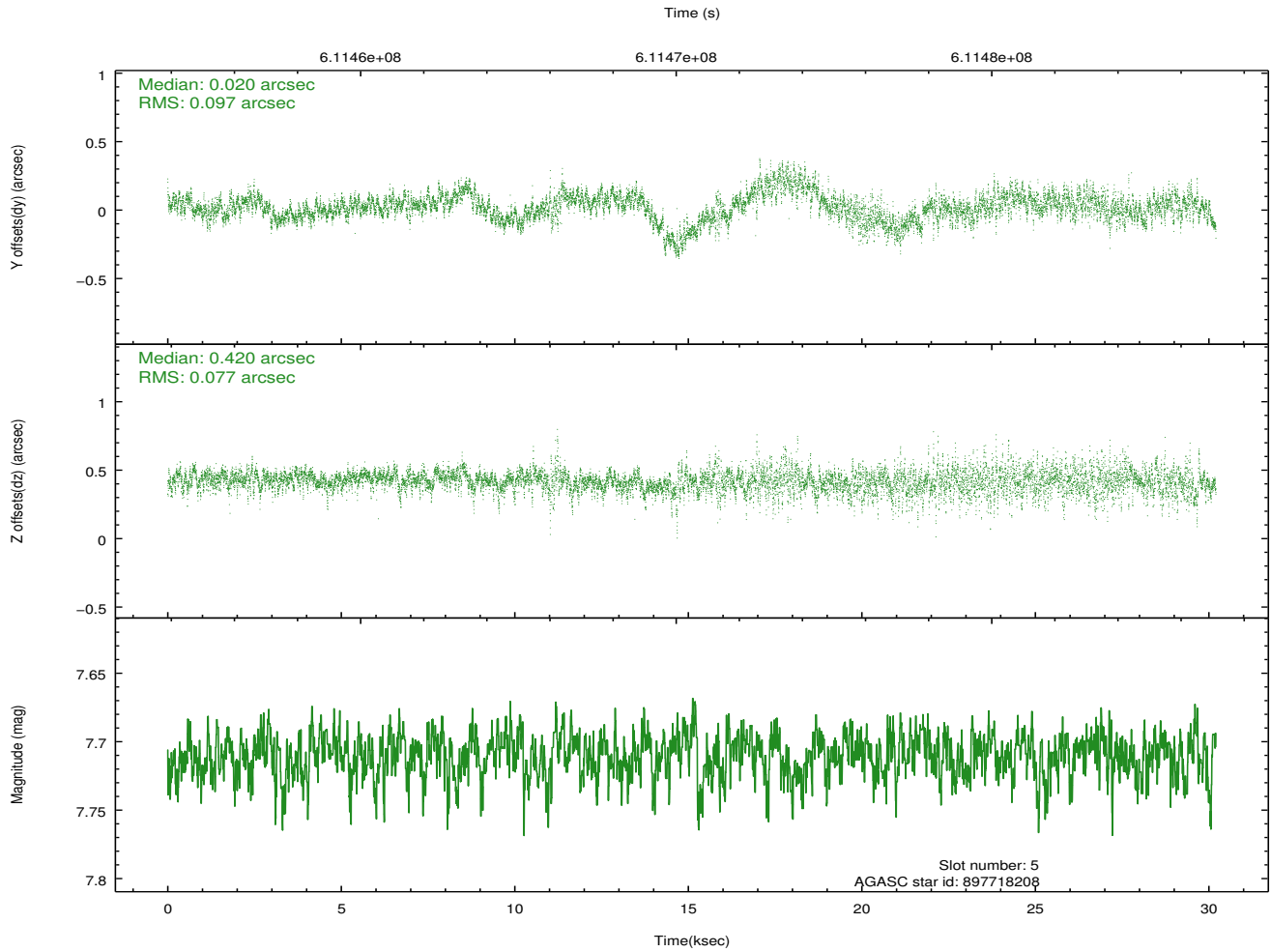
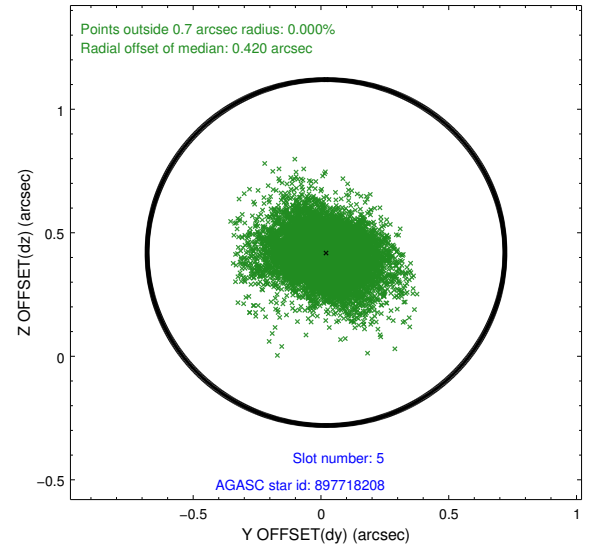
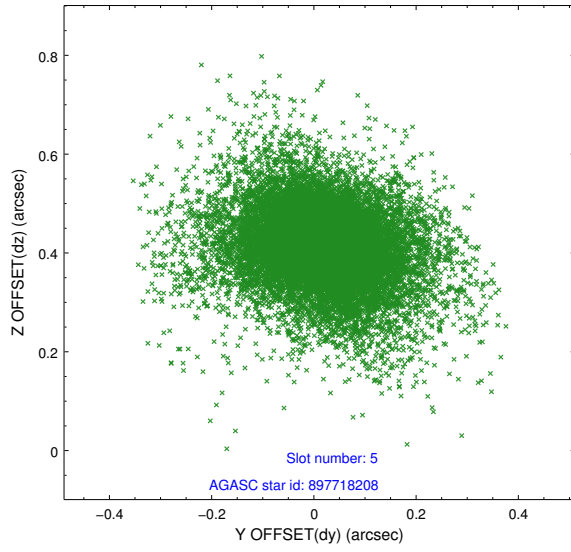
2.4.1 Slot 3



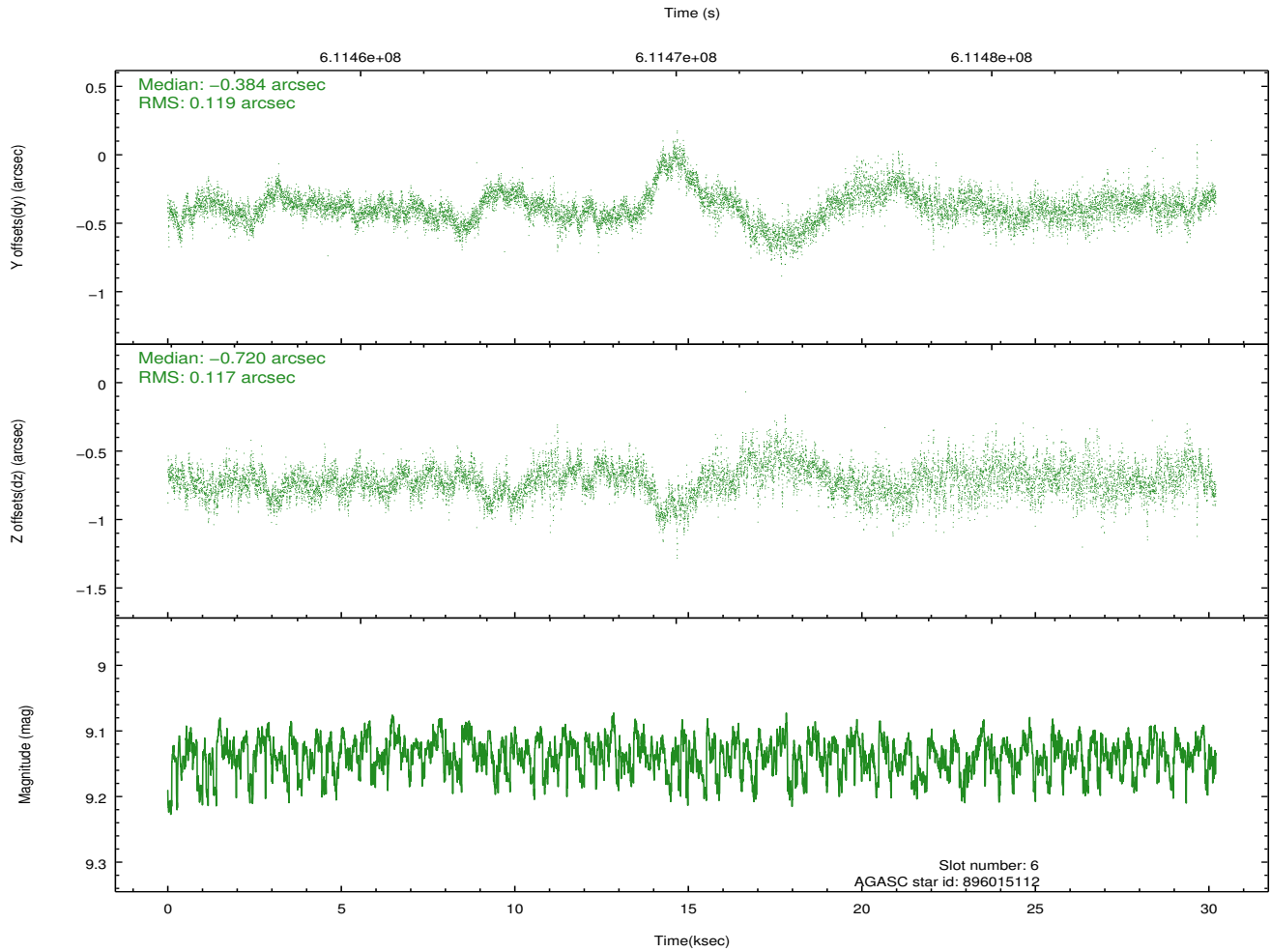
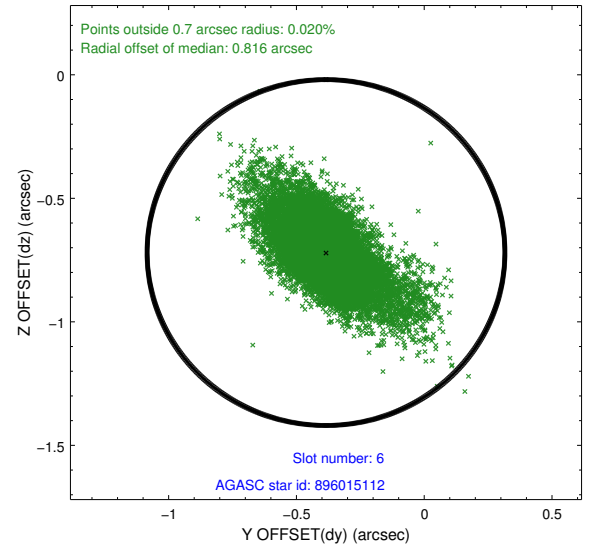
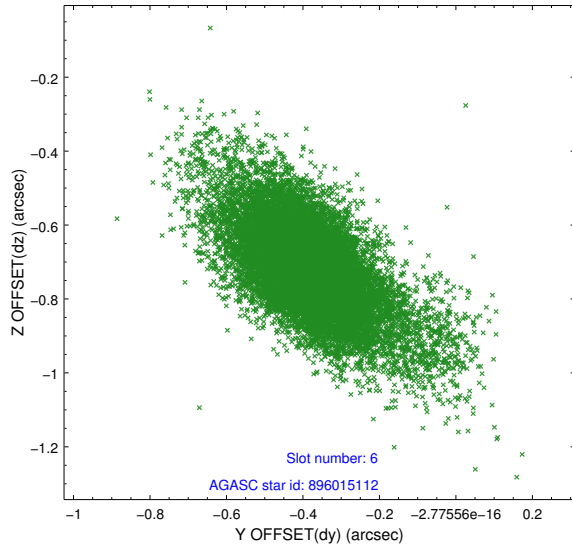
2.4.2 Slot 4



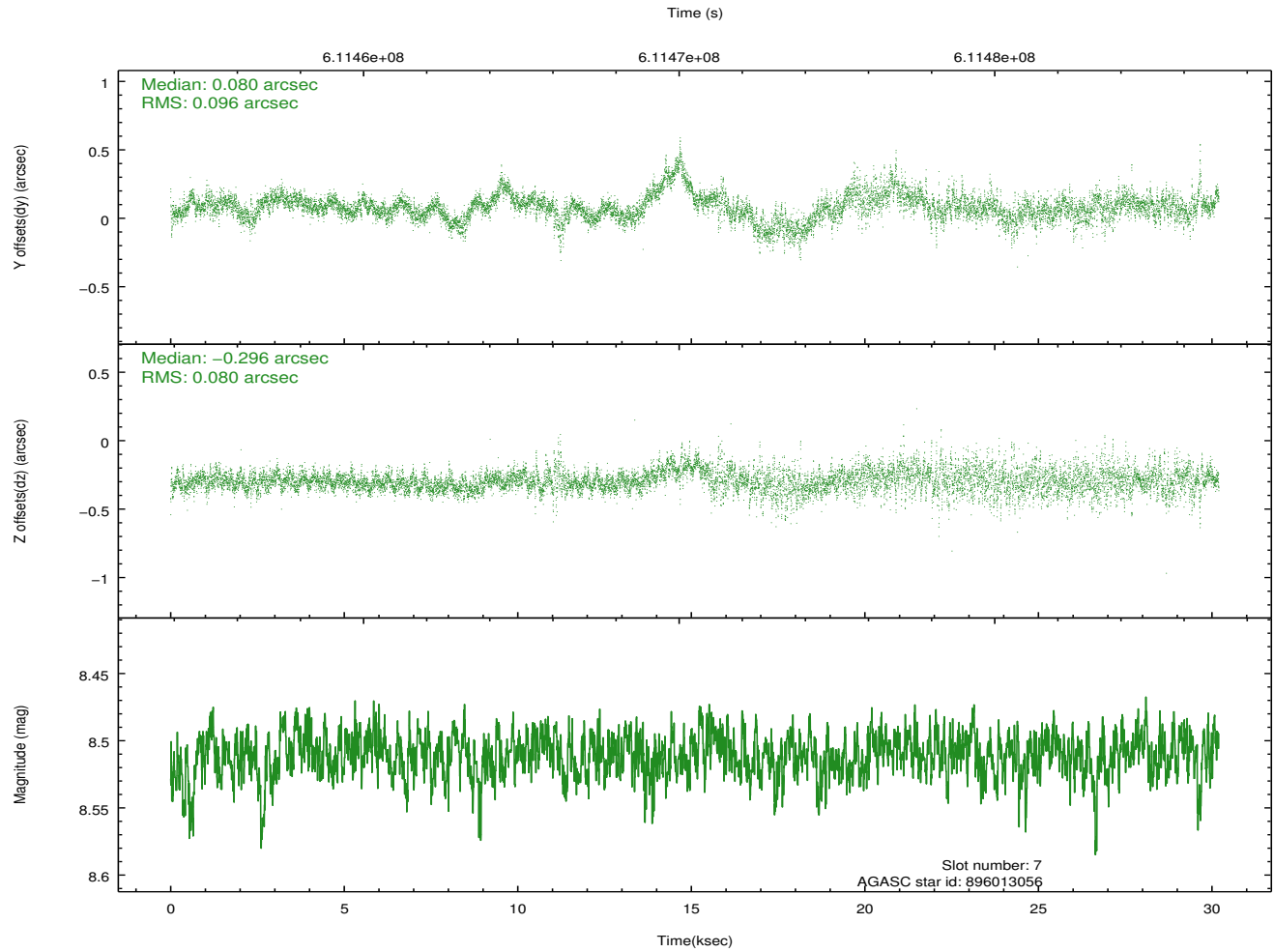
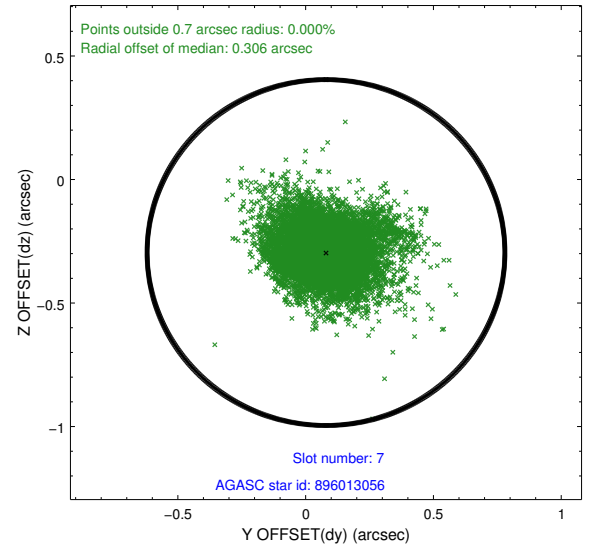
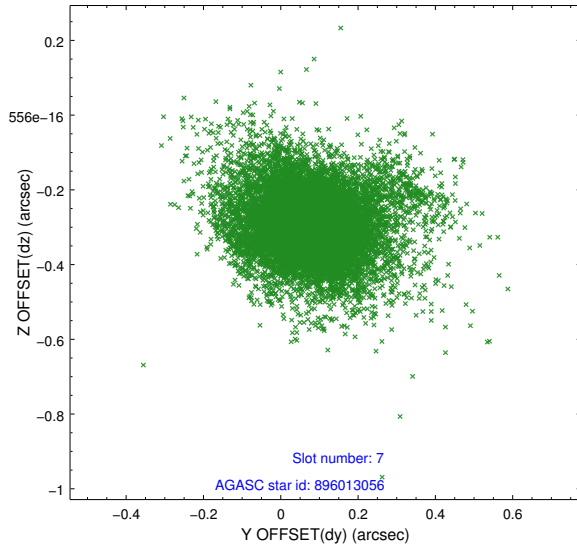
2.4.3 Slot 5



2.4.4 Slot 6

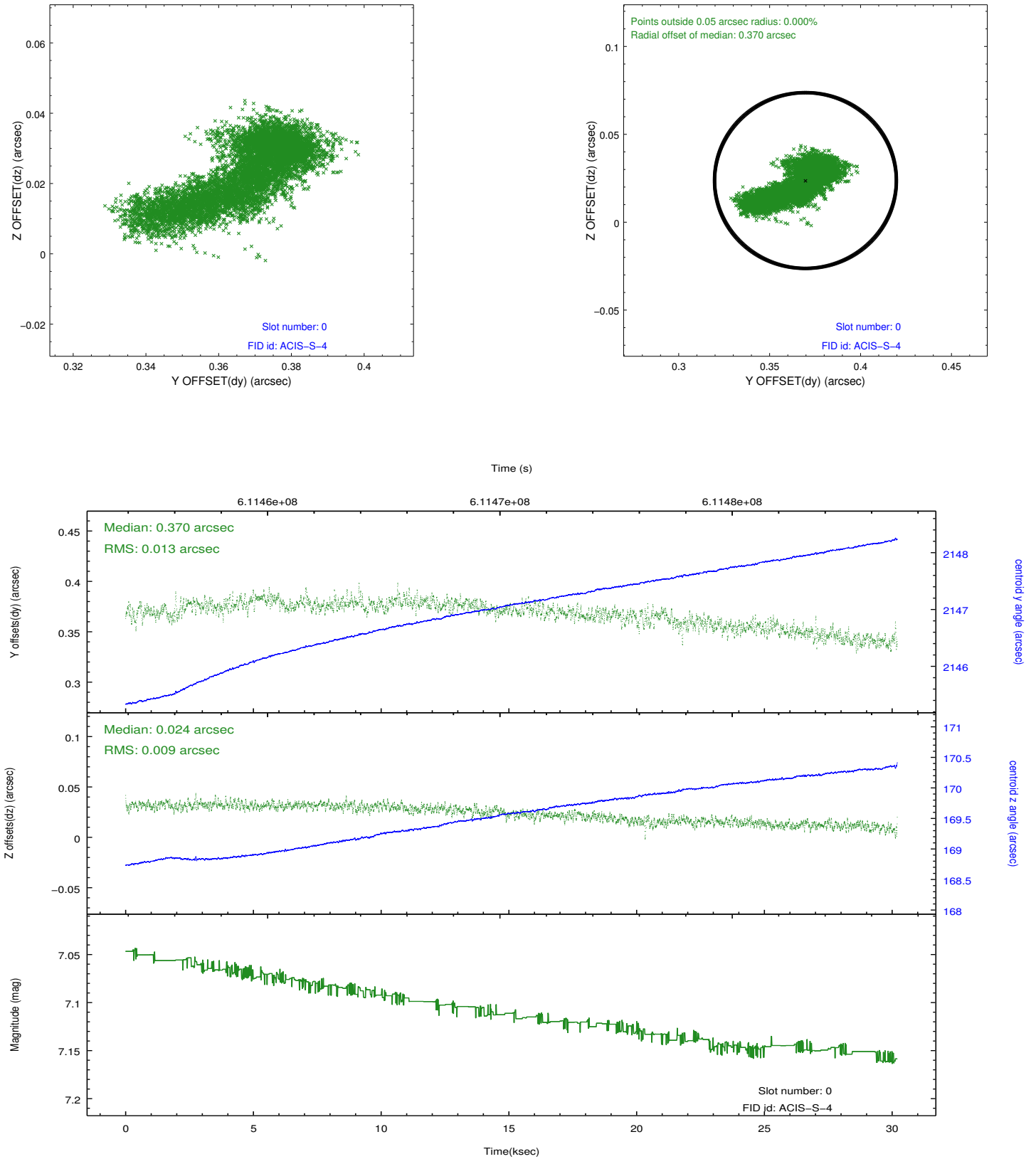


2.4.5 Slot 7

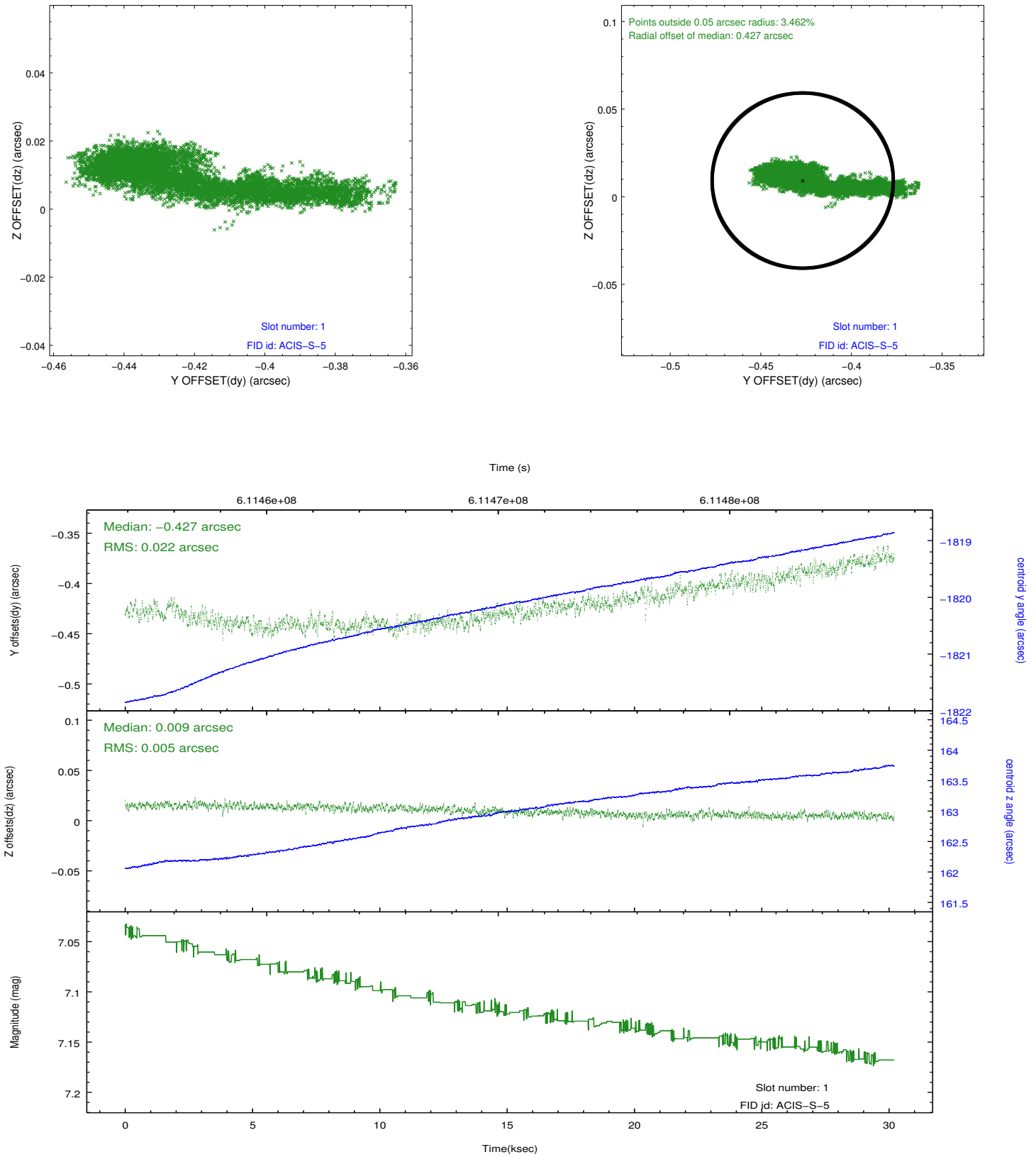


2.5 FID Slots

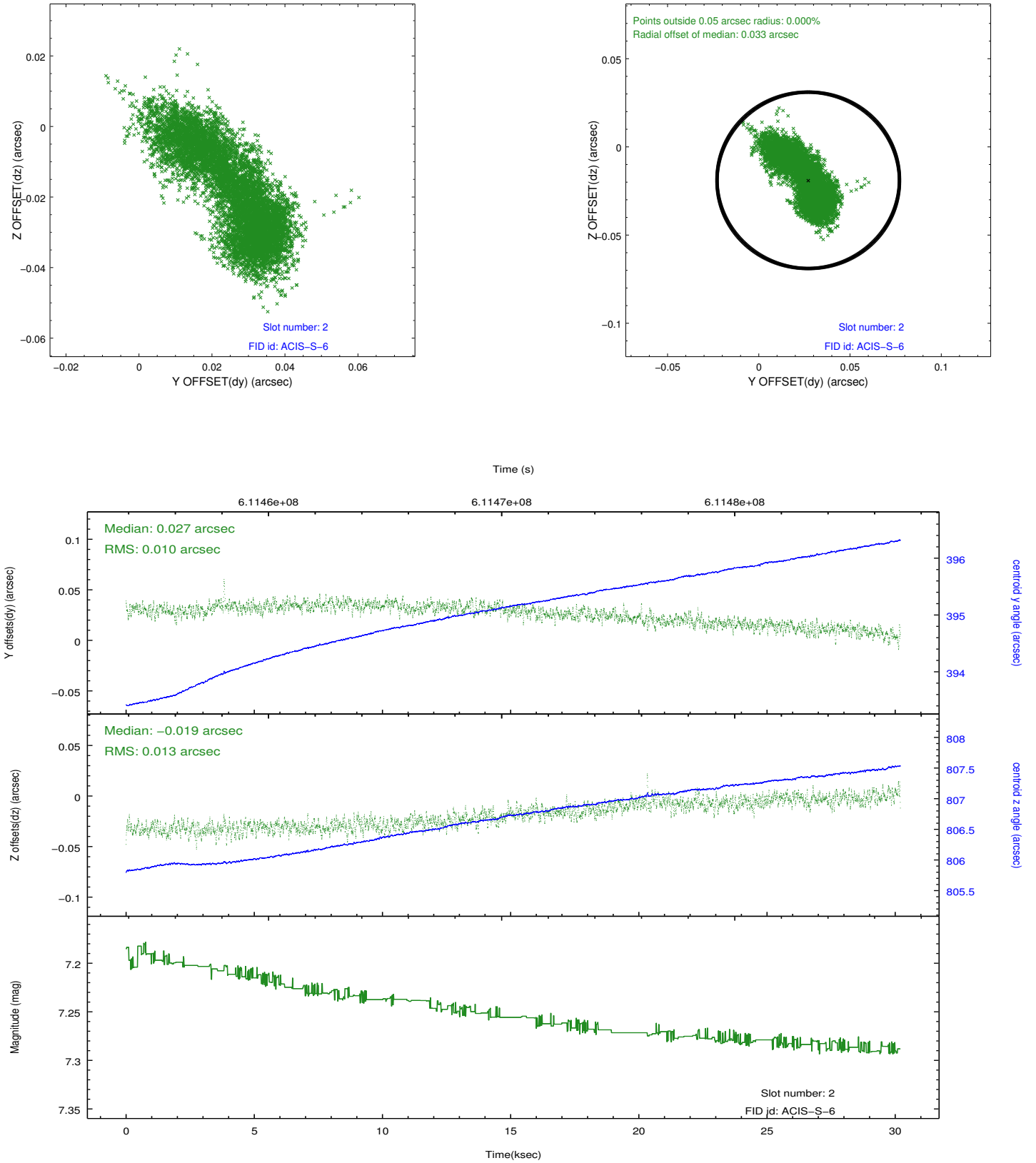
2.5.1 Slot 0



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)	2017.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.060744635582

A.2 Comments

Monitor constraint met.