

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21487 - L2 Version 1
Chandra X-Ray Center

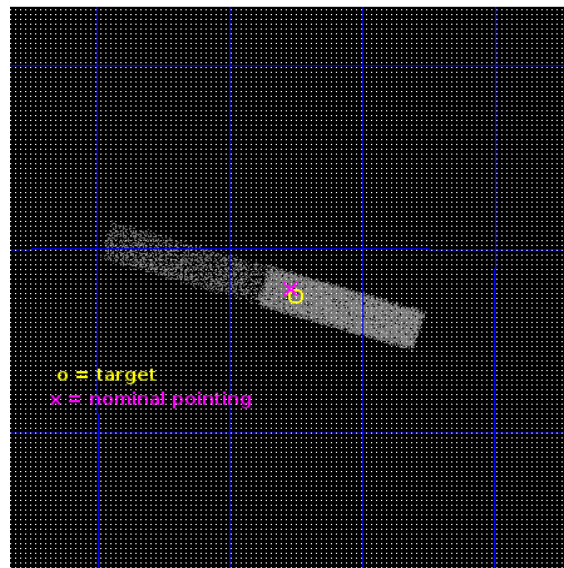
L2 Processing Date : Oct 9 2018

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1 Front

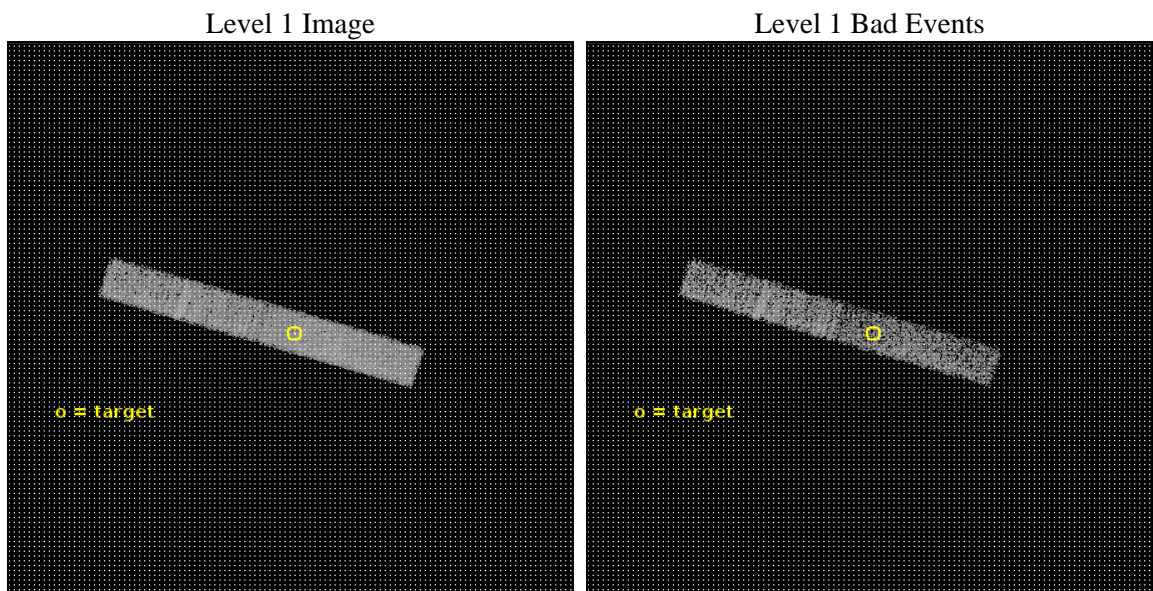
seq_num	703780	Sequence number
obs_id	21487	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC0123-226	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	21.5625	Observer's specified target RA [deg]
dec_targ	-22.376056	Observer's specified target Dec [deg]
ra_nom	21.566507466726	Nominal RA [deg]
dec_nom	-22.369516708215	Nominal Dec [deg]
roll_nom	16.858155243807	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10104.24849236	Sum of GTIs [s]
livetime	9663.5888412013	Livetime [s]
ontime6	10104.207452416	Sum of GTIs [s]
ontime7	10104.24849236	Sum of GTIs [s]
l2events	14315	Number of level 2 events



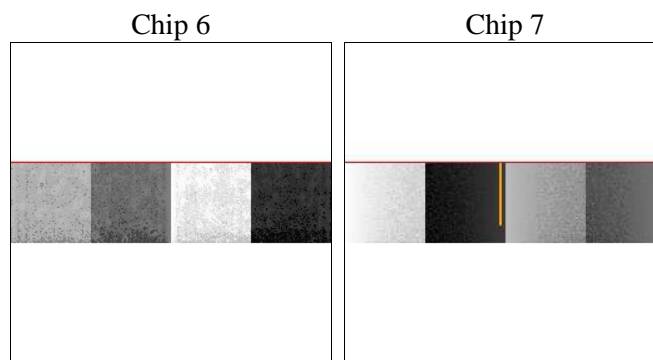
2 OBI

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	10.6.4.1	Processing system revision	ontime	10104.24849236	Sum of GTIs [s]
caldsver	4.8.0	 	ontime6	10104.207452416	Sum of GTIs [s]
date	2018-10-09T14:55:16	Date and time of file creation	ontime7	10104.24849236	Sum of GTIs [s]
revision	1	Processing version of data	l1events	46907	Number of level 1 events

2.1.4 Events

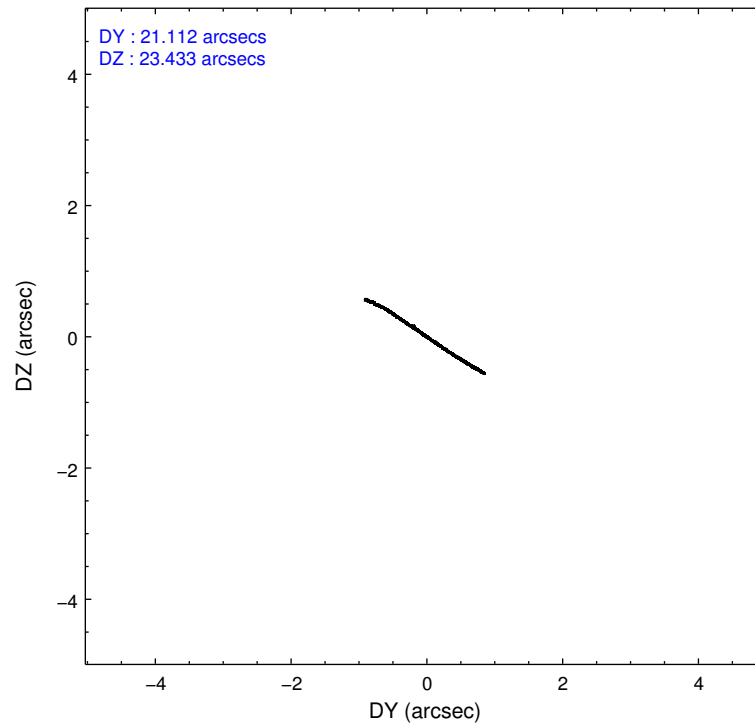
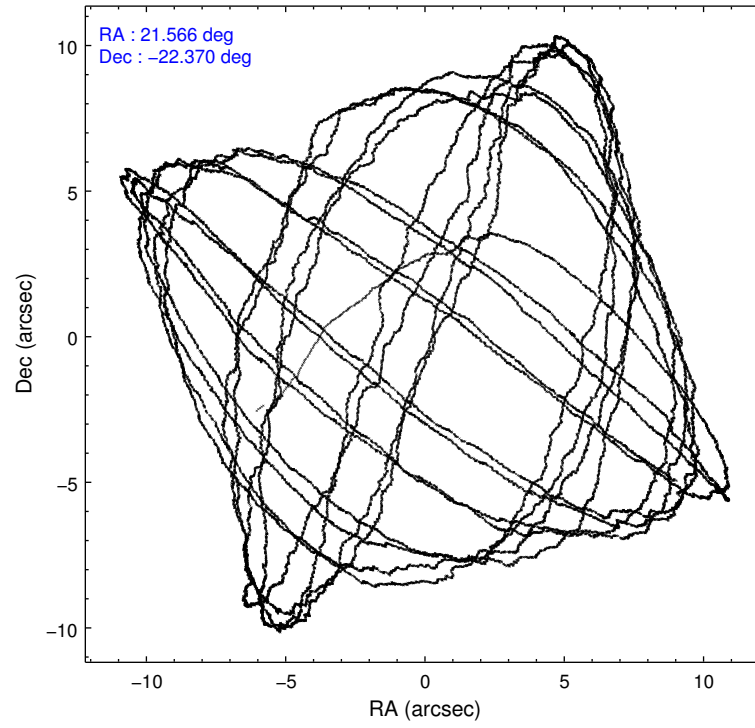
	ccd 6	ccd 7
level 1 events	21169	25738
rejected events	18585	13190
rejected %	87%	51%

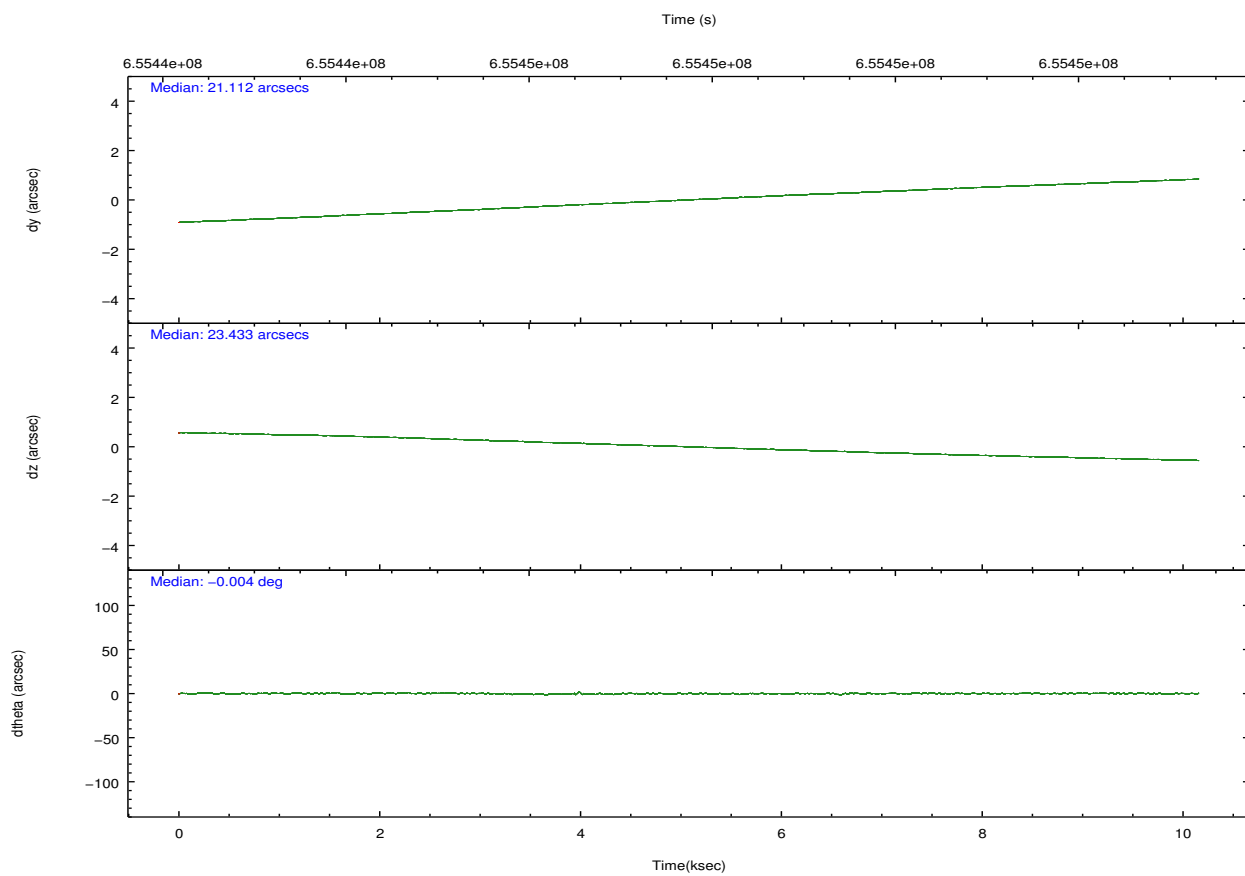
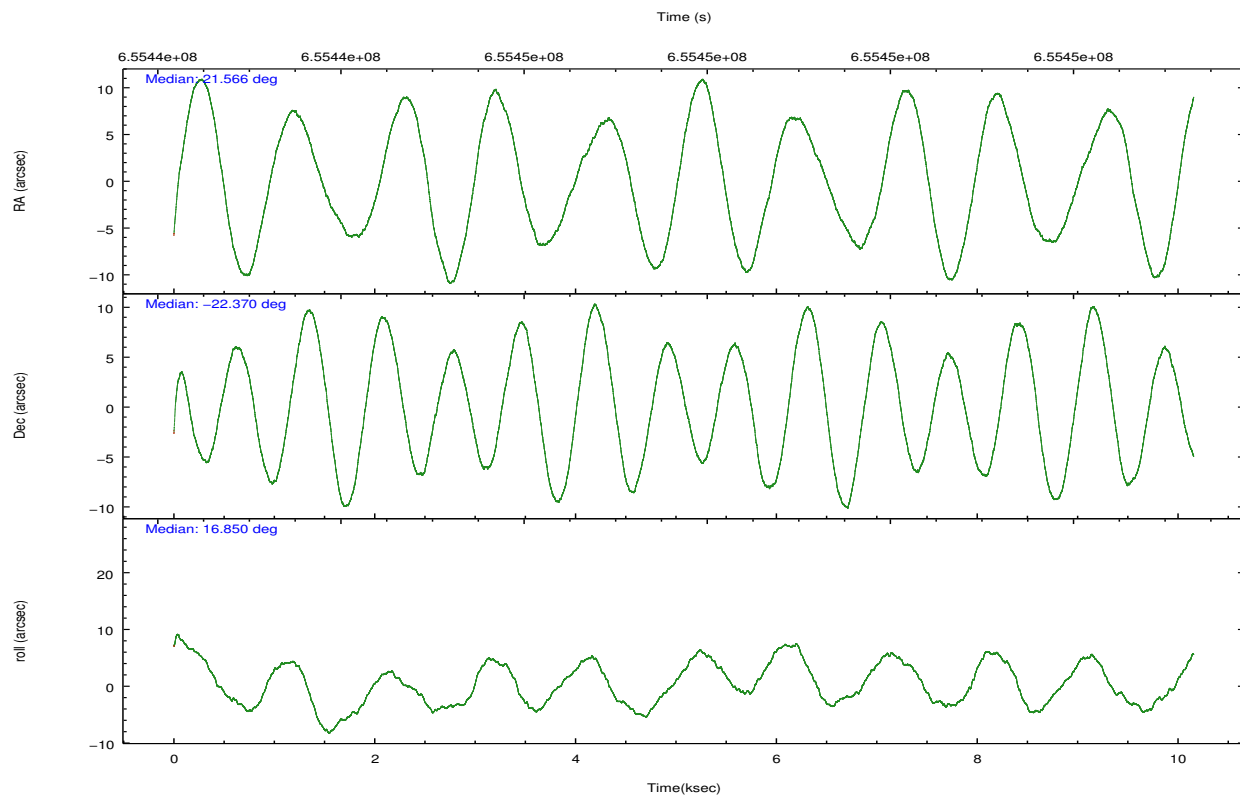
	ccd 6	ccd 7
grade 0 events	769	1329
	3%	5%
grade 1 events	6	41
	0%	0%
grade 2 events	523	2725
	2%	10%
grade 3 events	388	1377
	1%	5%
grade 4 events	413	1339
	1%	5%
grade 5 events	921	2685
	4%	10%
grade 6 events	491	5782
	2%	22%
grade 7 events	17658	10460
	83%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	21.546496	21.5665074667255	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-22.389800	-22.3695167082146	Subarray start row	385	385
[deg] Pointing Roll	16.693908	16.85815524380717	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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	655442825.184000	655441559.00069			
Observation start date	2018-10-09T03:25:56	2018-10-09T03:05:59			
[s] Observation end time (MET)	655452825.184000	655454357.66395			
Observation end date	2018-10-09T06:12:36	2018-10-09T06:39:17			
Read mode	TIMED	TIMED			

2.3 Aspect



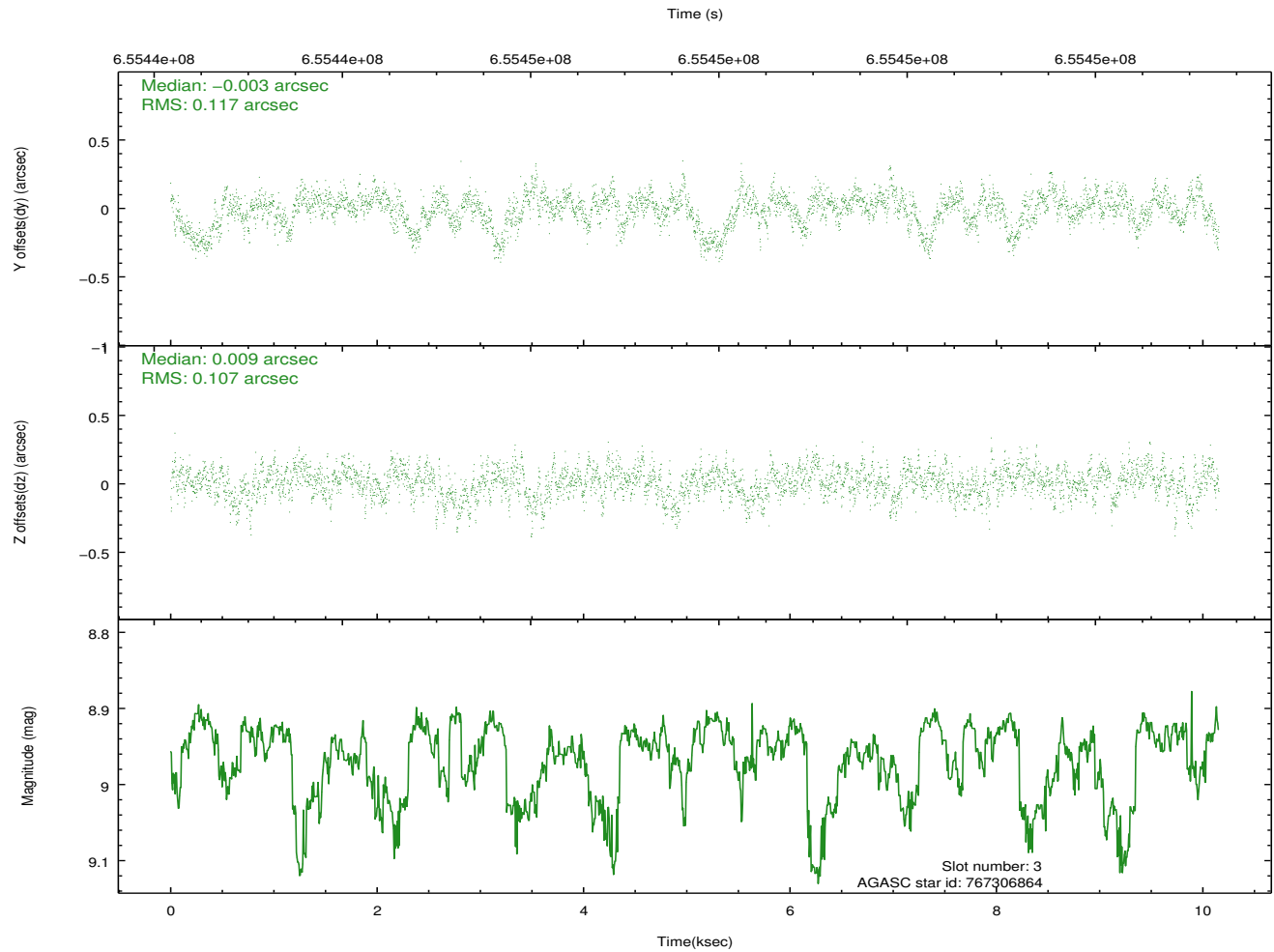
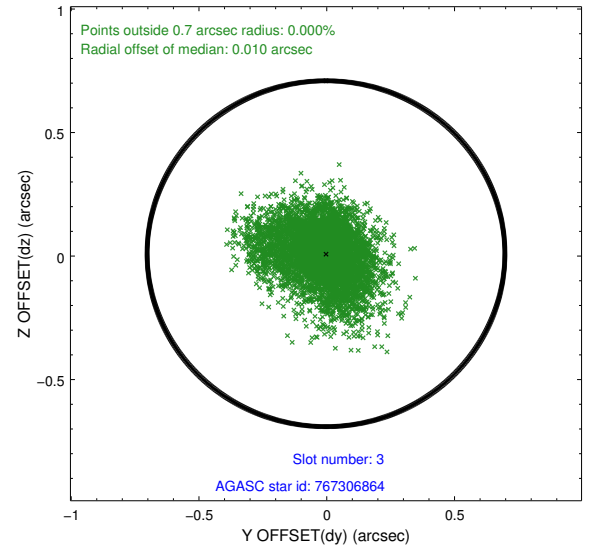
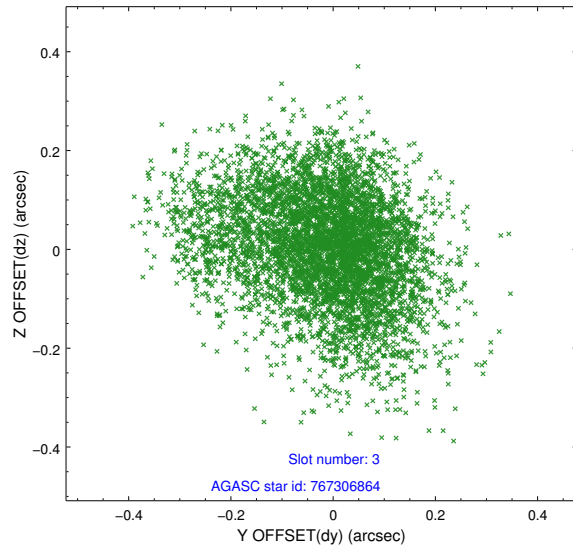


Slot Statistics

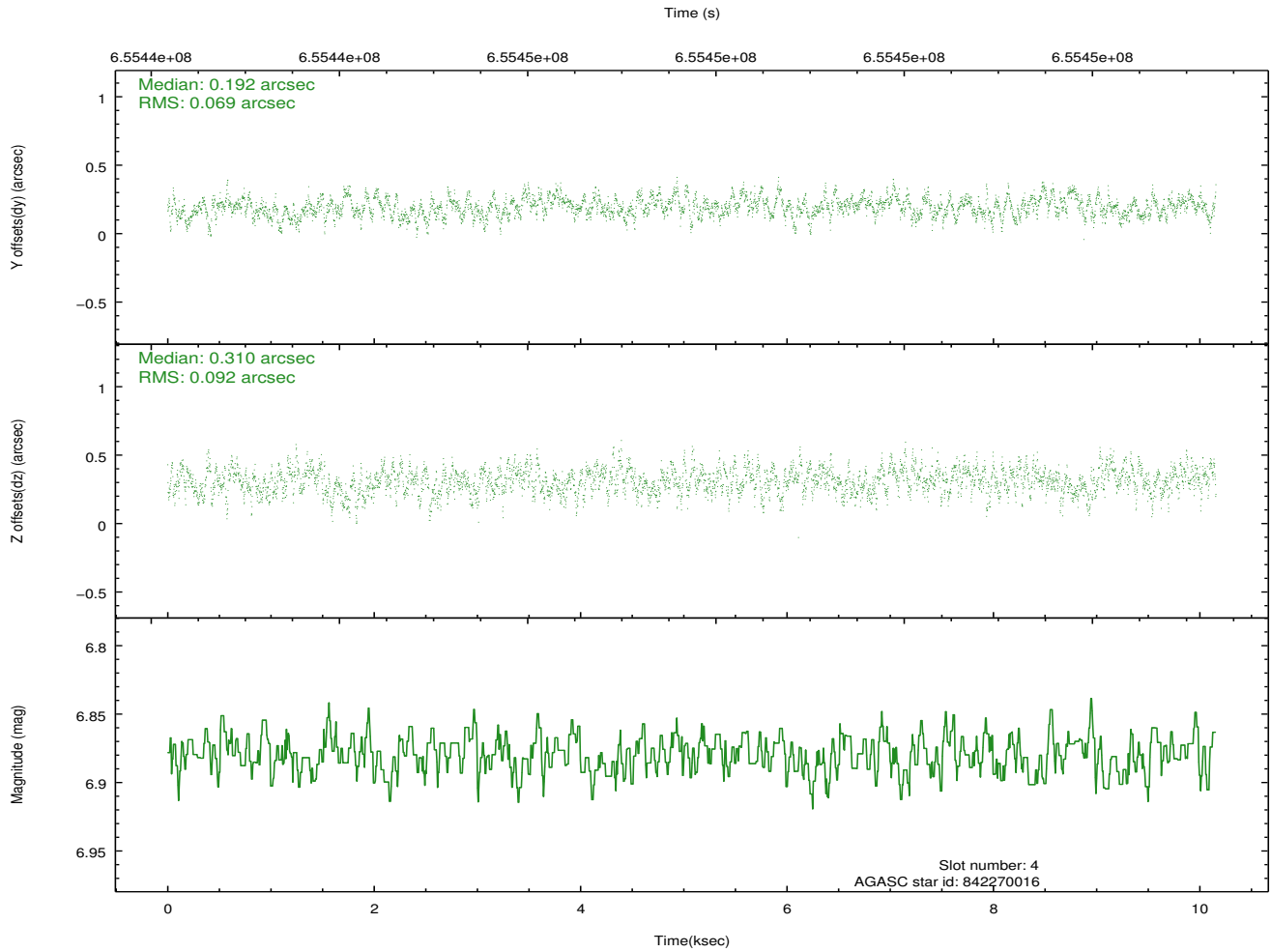
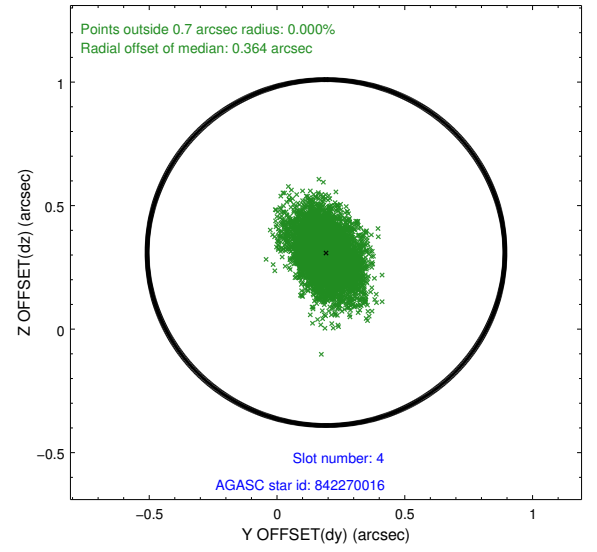
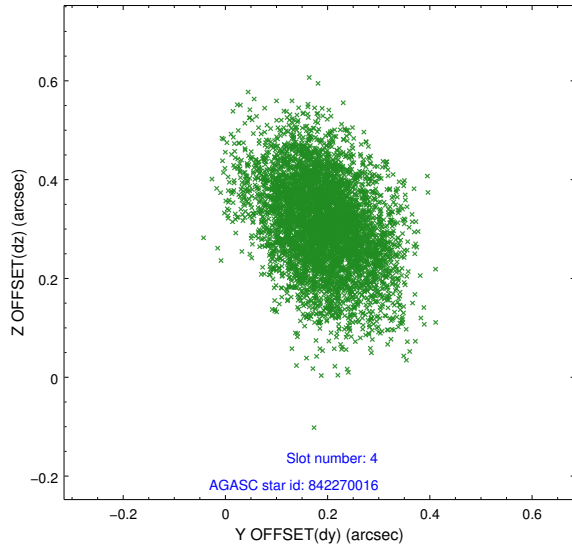
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	2478	1.000	-0.233	-0.113	0.024	0.037	0.000000	0.000000	-774.45	-1745
1	FID		ACIS-S-4	7.09	2478	1.000	0.464	0.142	0.010	0.016	0.000000	0.000000	2139.27	163
2	FID		ACIS-S-5	7.11	2478	1.000	-0.263	-0.021	0.024	0.041	0.000000	0.000000	-1826.68	157
3	GUIDE	used	767306864	8.96	4951	1.000	-0.003	0.009	0.168	0.282	22.013373	-22.337048	1543.09	-267
4	GUIDE	used	842270016	6.88	4954	1.000	0.192	0.310	0.121	0.200	21.520864	-22.798381	-502.52	-1384
5	GUIDE	used	767303136	8.90	4945	1.000	-0.184	-0.431	0.140	0.220	22.029884	-21.557754	2409.88	2401
6	GUIDE	used	767307776	8.93	4949	1.000	0.023	-0.151	0.175	0.283	21.050076	-21.941829	-1123.03	2018
7	GUIDE	used	842268912	9.29	4946	1.000	-0.009	0.281	0.193	0.323	22.120772	-22.766133	1435.78	-1847

2.4 Star Slots

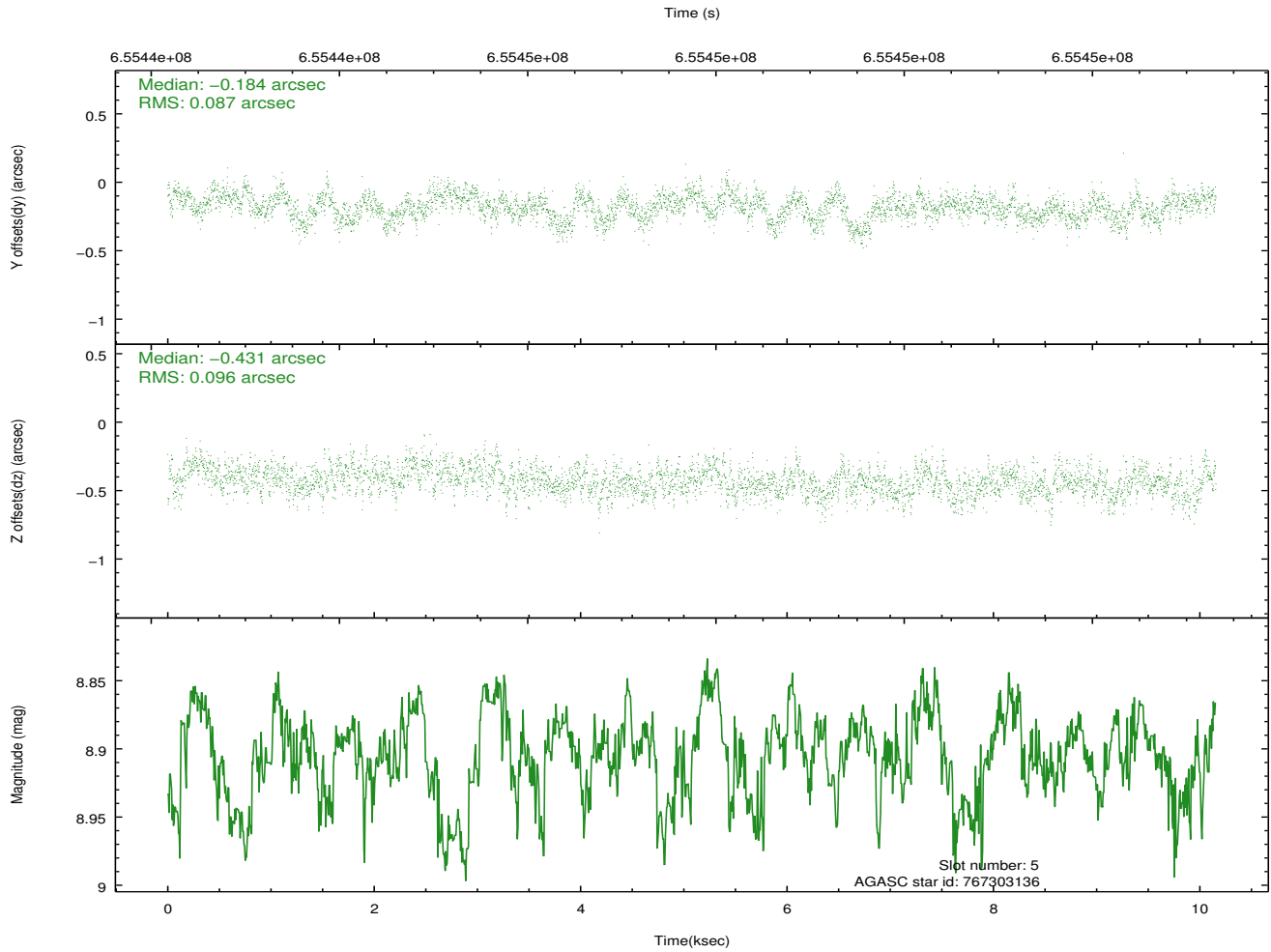
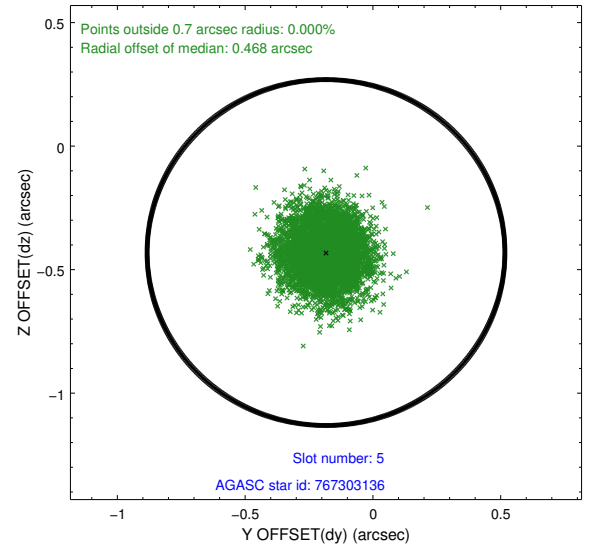
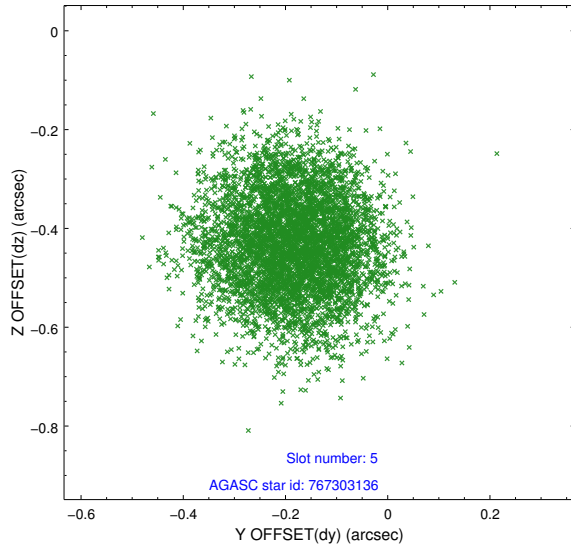
2.4.1 Slot 3



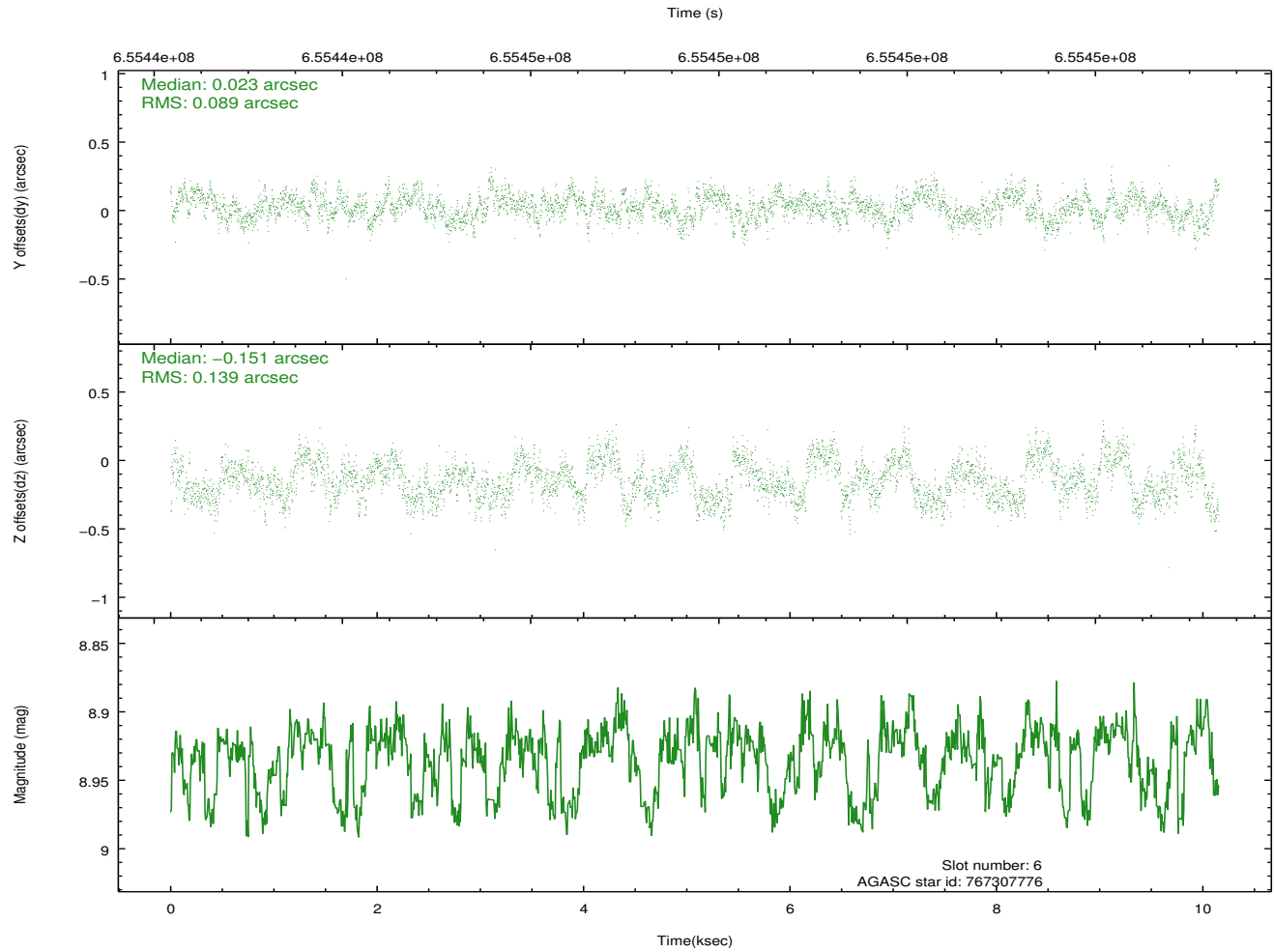
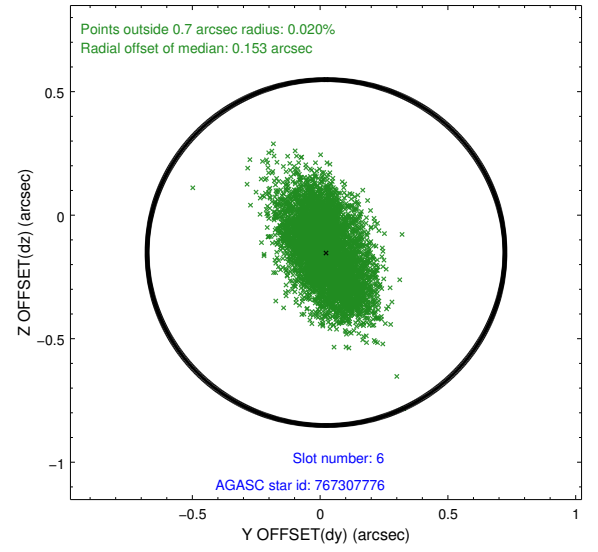
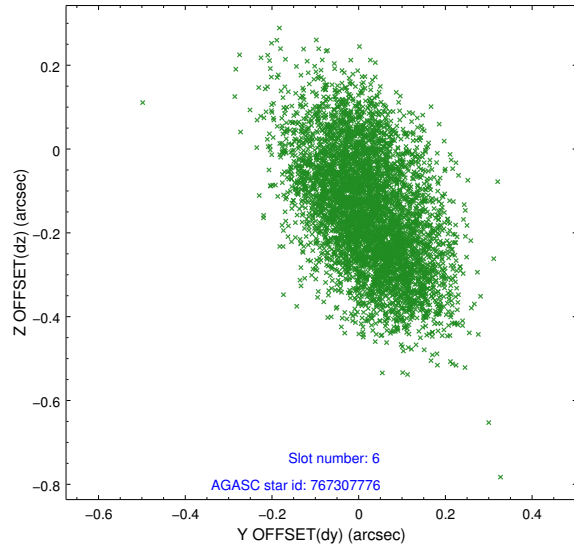
2.4.2 Slot 4



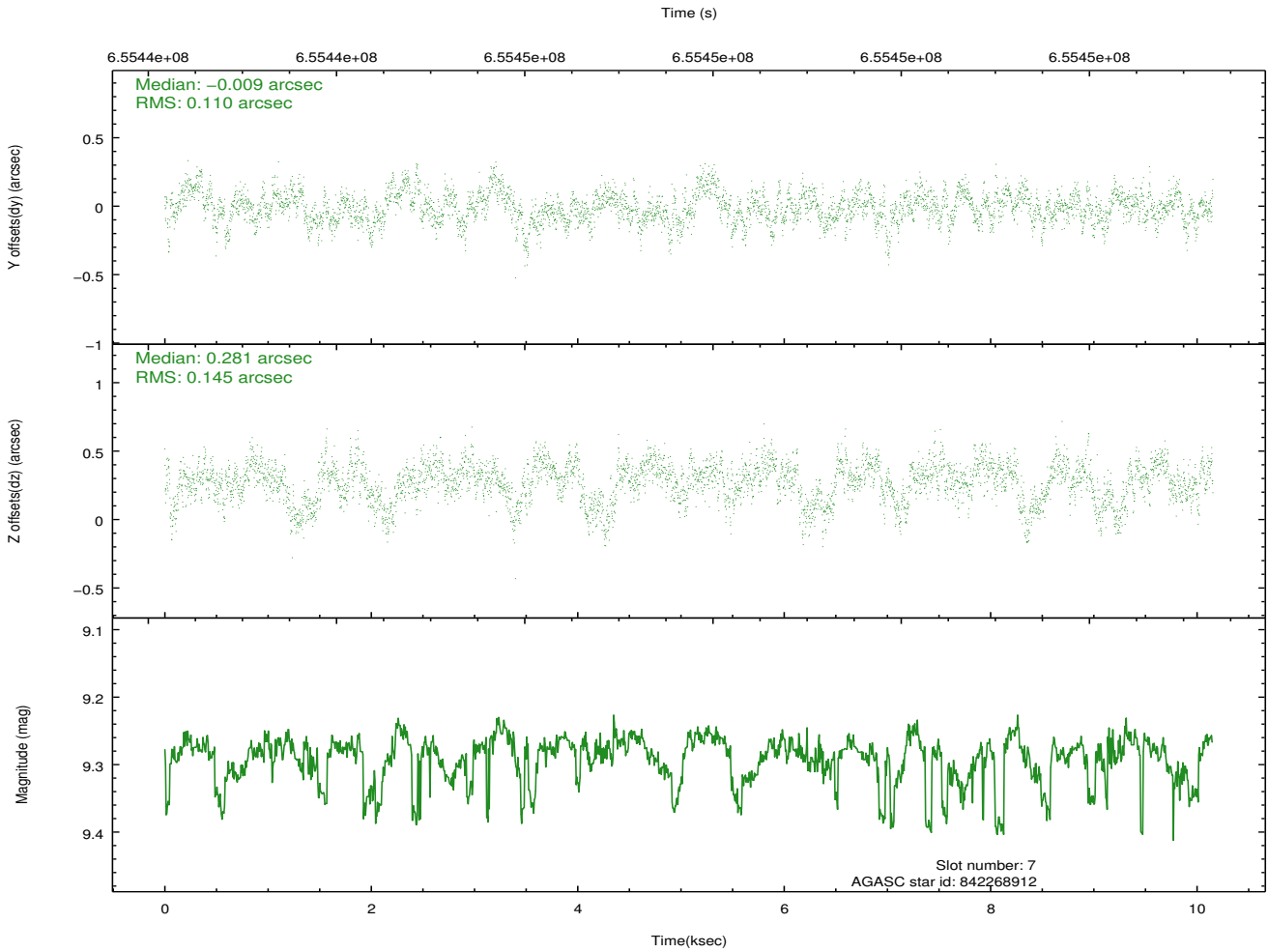
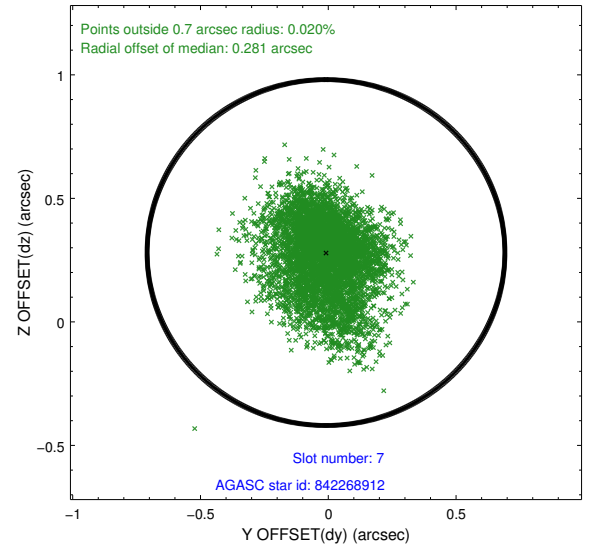
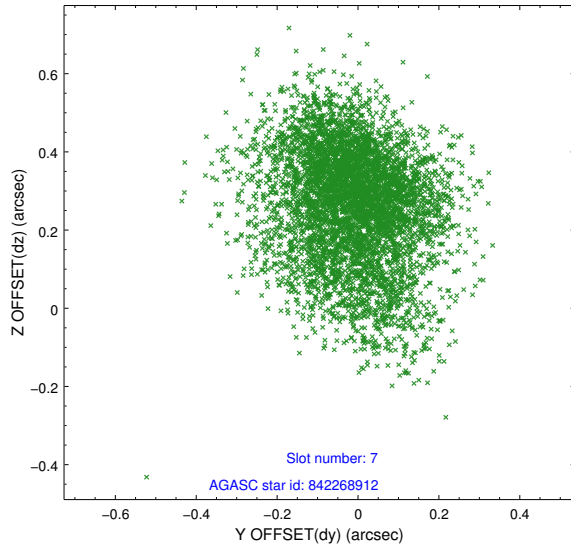
2.4.3 Slot 5



2.4.4 Slot 6

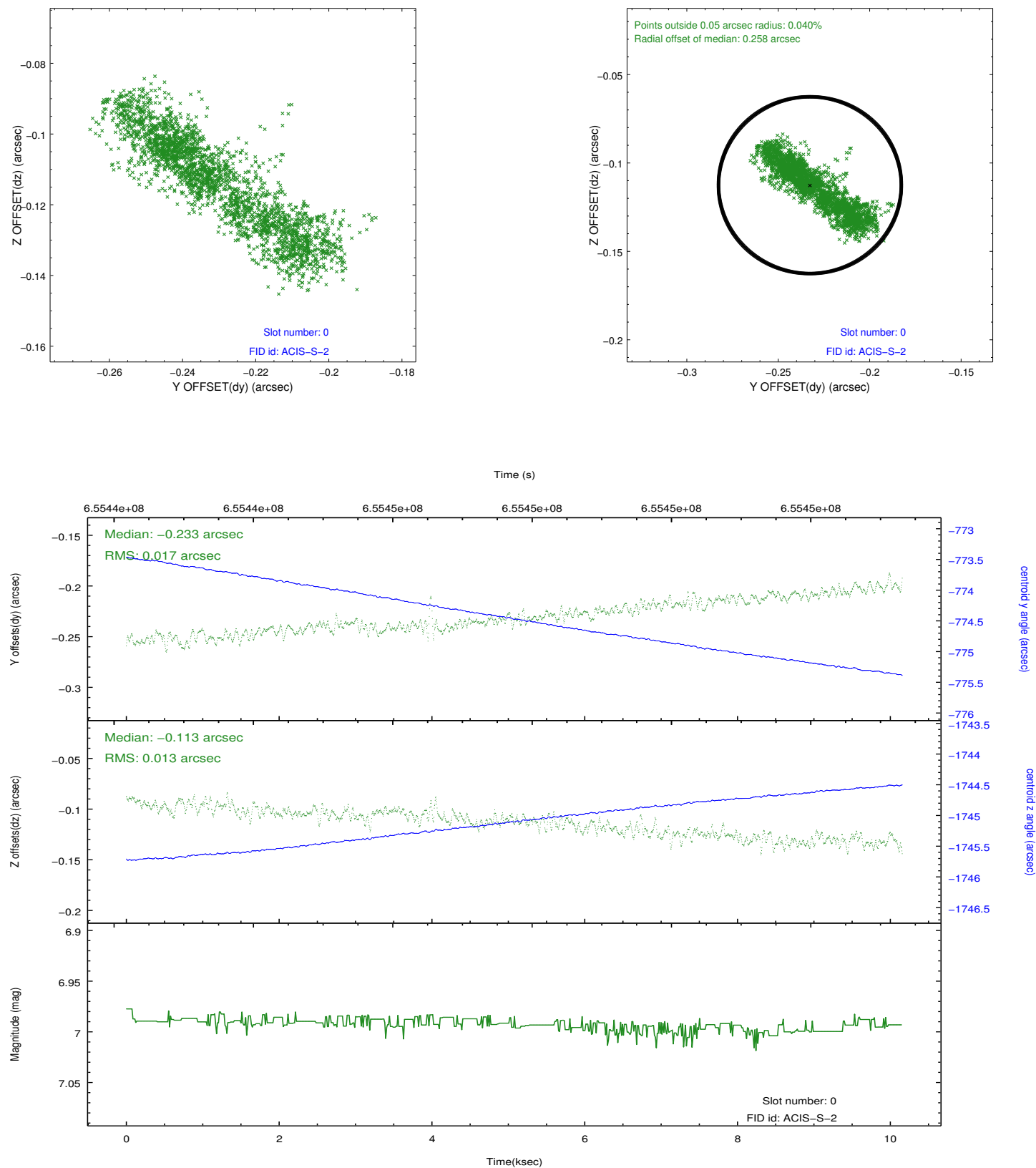


2.4.5 Slot 7

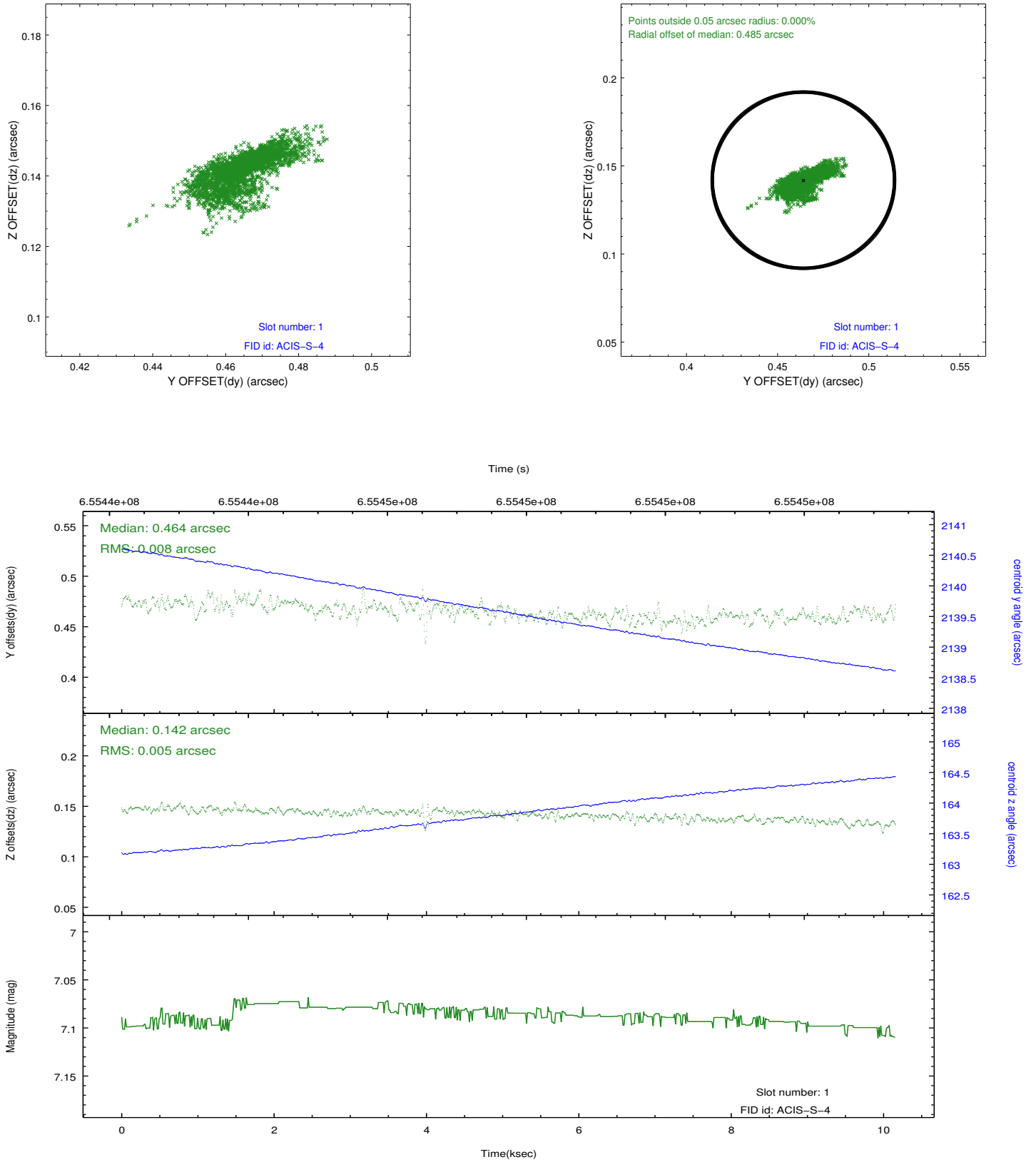


2.5 FID Slots

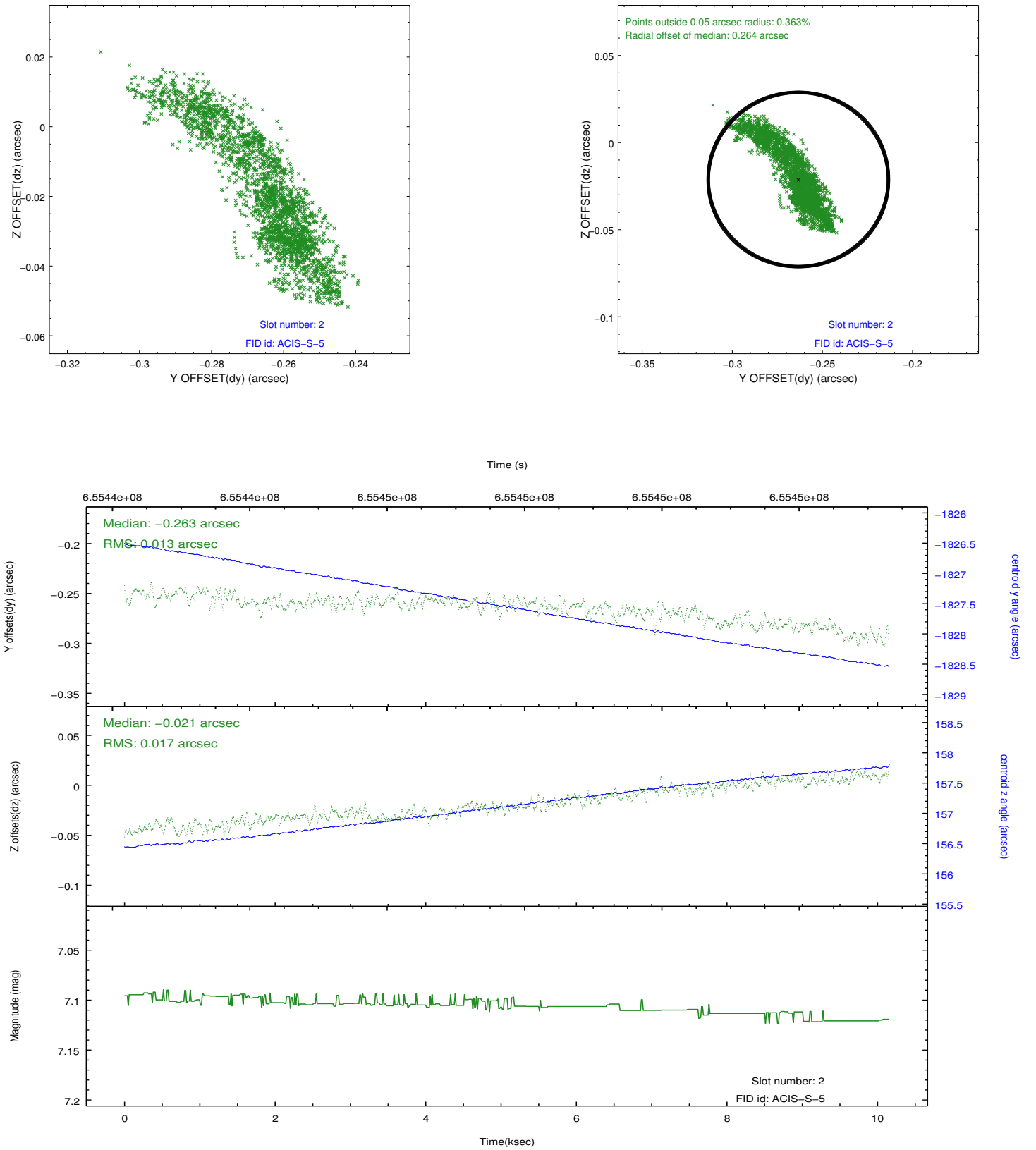
2.5.1 Slot 0



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)	2018.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.10424849236

A.2 Comments

Roll preference met.