

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6312 - L2 Version 4
Chandra X-Ray Center

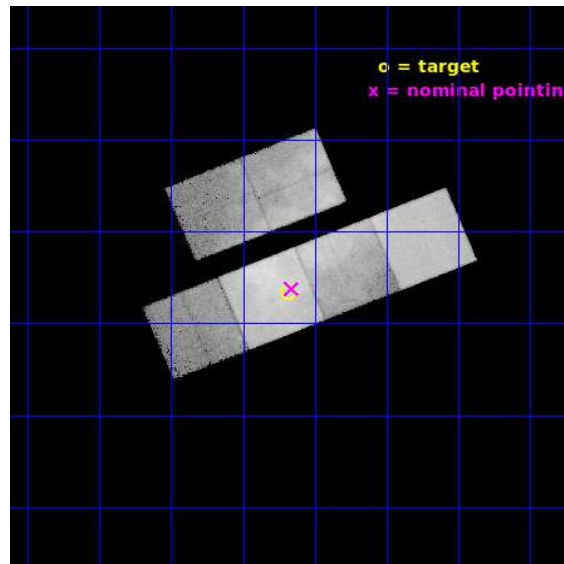
L2 Processing Date : Oct 8 2020

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1 Front

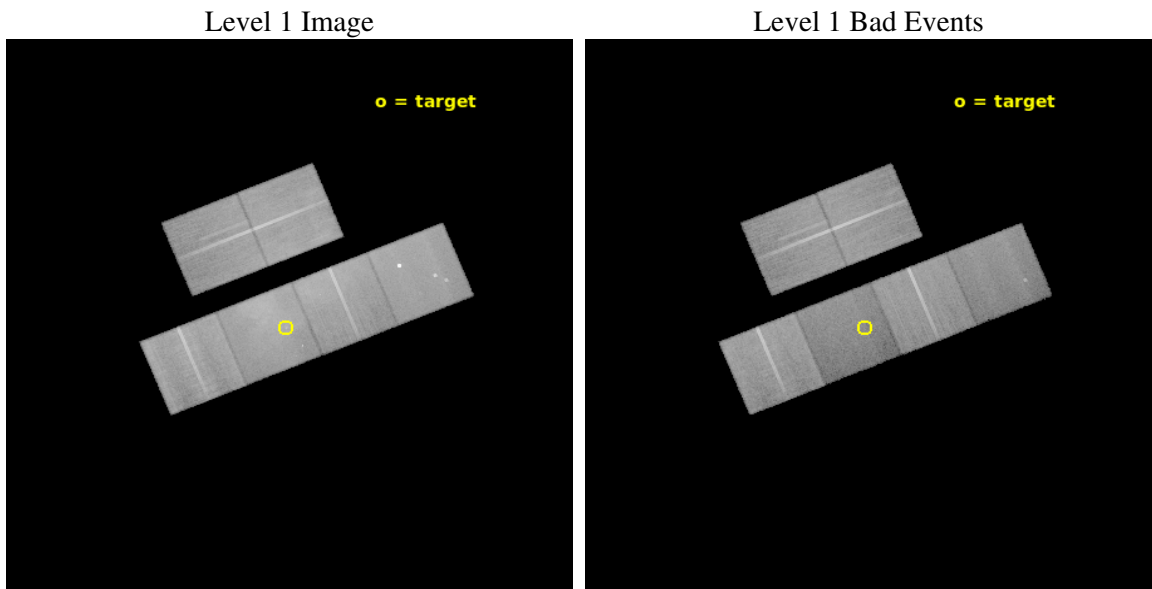
seq_num	500537	Sequence number
obs_id	6312	Observation id
title	The Structure and Spectrum of W44 s Pulsar Wind Nebula	Proposal ti
observer	Robert Petre	Principal investigator
object	W44 PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	284.045	Observer's specified target RA [deg]
dec_targ	1.2225	Observer's specified target Dec [deg]
ra_nom	284.03989461716	Nominal RA [deg]
dec_nom	1.2296488975582	Nominal Dec [deg]
roll_nom	157.6587457485	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40089.599850655	Sum of GTIs [s]
livetime	39581.961198287	Livetime [s]
ontime2	40089.599850655	Sum of GTIs [s]
ontime3	40079.876879901	Sum of GTIs [s]
ontime5	40089.599850655	Sum of GTIs [s]
ontime6	40089.599850655	Sum of GTIs [s]
ontime7	40089.599850655	Sum of GTIs [s]
ontime8	40089.599850655	Sum of GTIs [s]
l2events	610704	Number of level 2 events



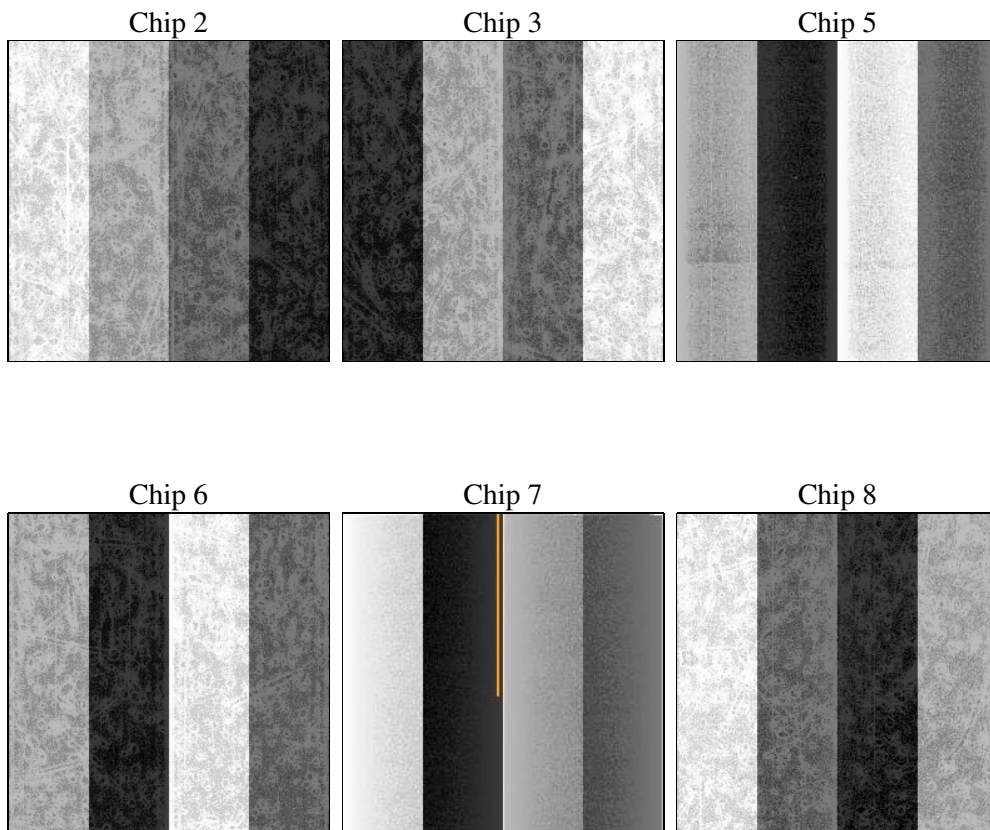
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40089.599850655	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	40089.599850655	Sum of GTIs [s]
date	2020-10-09T01:08:54	Date and time of file creation	ontime3	40079.876879901	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	40089.599850655	Sum of GTIs [s]
			ontime6	40089.599850655	Sum of GTIs [s]
			ontime7	40089.599850655	Sum of GTIs [s]
			ontime8	40089.599850655	Sum of GTIs [s]
			l1events	1870003	Number of level 1 events

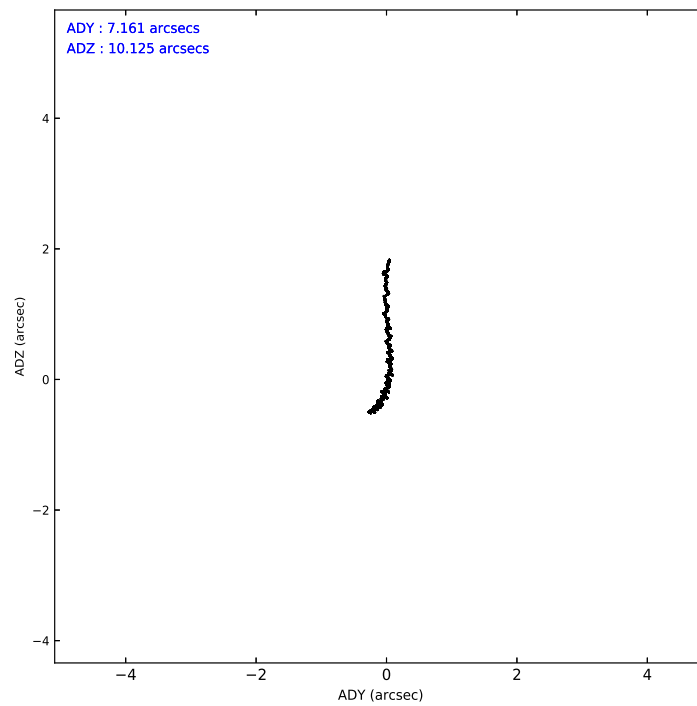
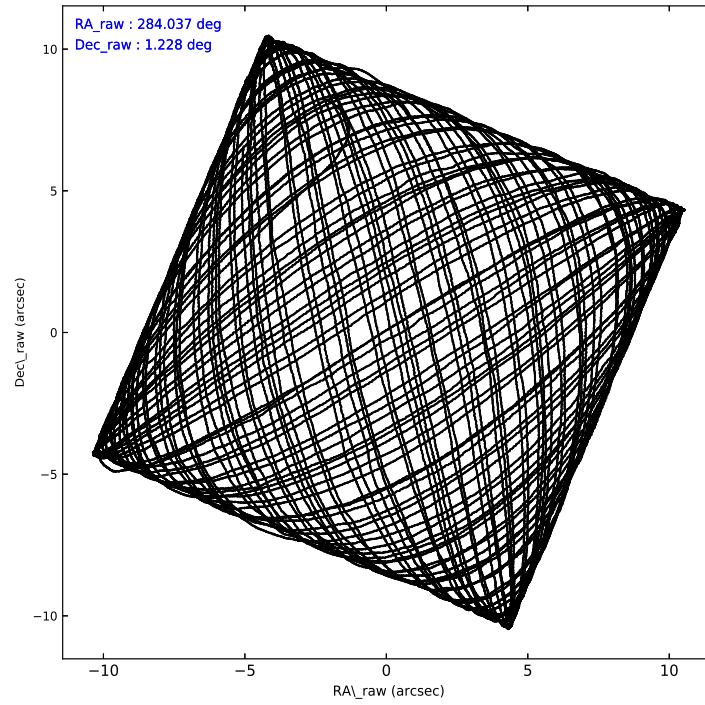
2.1.4 Events

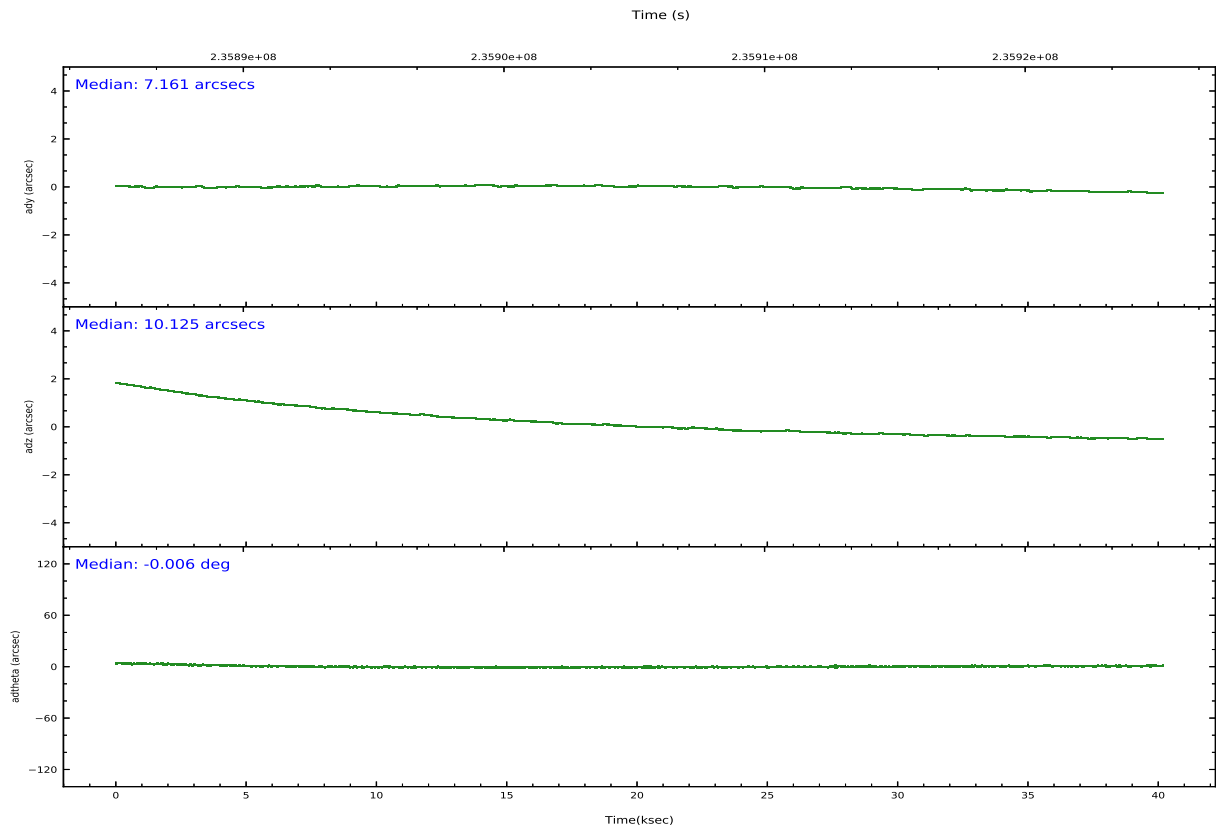
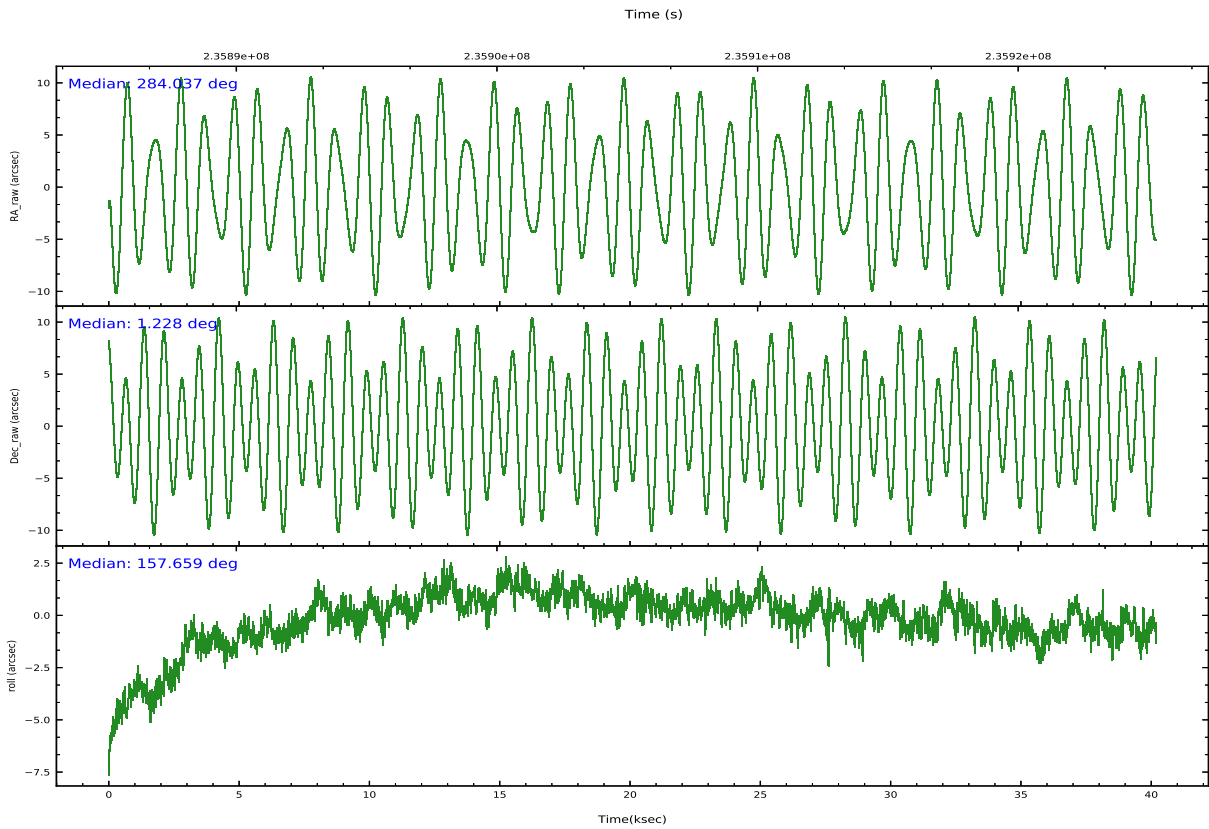
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	336143	254347	310852	330511	334272	303878	grade 0 events	72872	20287	25809	77909	39024	22025
rejected events	235265	217119	144329	222912	122198	229792		21%	7%	8%	23%	11%	7%
rejected %	69%	85%	46%	67%	36%	75%	grade 1 events	418	187	238	420	251	217
								0%	0%	0%	0%	0%	0%
							grade 2 events	13048	6312	45768	13515	49271	17015
								3%	2%	14%	4%	14%	5%
							grade 3 events	4835	3085	6836	4960	22363	7957
								1%	1%	2%	1%	6%	2%
							grade 4 events	4828	3063	6472	4889	22274	7408
								1%	1%	2%	1%	6%	2%
							grade 5 events	7381	8388	25173	8845	26254	12782
								2%	3%	8%	2%	7%	4%
							grade 6 events	5303	4488	81653	6331	79160	19684
								1%	1%	26%	1%	23%	6%
							grade 7 events	227458	208537	118903	213642	95675	216790
								67%	81%	38%	64%	28%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	284.063776	284.03989461716	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.231681	1.2296488975582	Alternating exposures requested	N	N
[deg] Pointing Roll	157.499600	157.6587457485	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	235885292.184000	235884263.72843			
Observation start date	2005-06-23T03:40:28	2005-06-23T03:24:23			
[s] Observation end time (MET)	235925292.184000	235925903.84284			
Observation end date	2005-06-23T14:47:08	2005-06-23T14:58:23			
Read mode	TIMED	TIMED			

2.3 Aspect





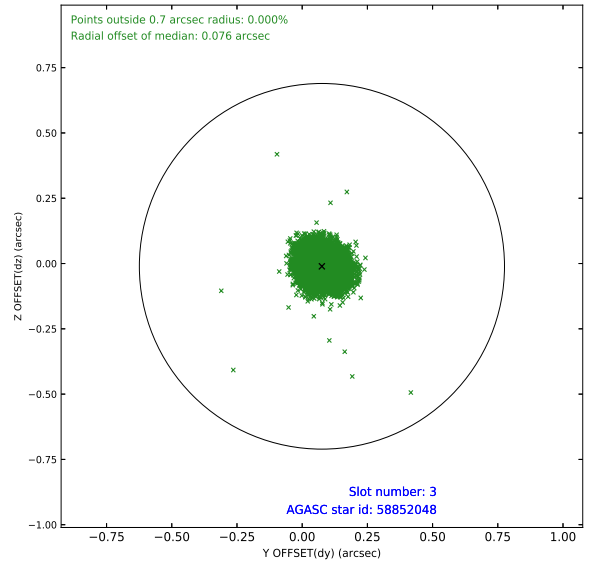
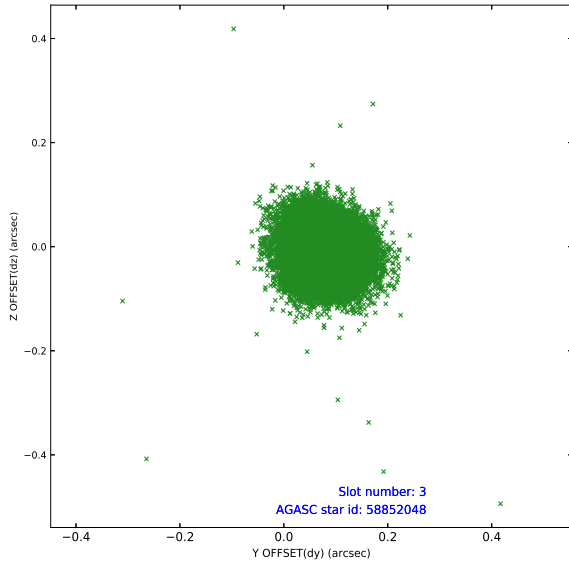
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.11	9803	1.000	-0.087	-0.067	0.010	0.022	0.000000	0.000000	-759.91	-1731
1	FID		ACIS-S-4	7.21	9801	1.000	0.157	0.060	0.008	0.017	0.000000	0.000000	2153.54	177
2	FID		ACIS-S-5	7.24	9803	1.000	-0.102	0.017	0.008	0.015	0.000000	0.000000	-1812.81	170
3	GUIDE	used	58852048	8.39	19594	1.000	0.076	-0.011	0.063	0.099	283.366398	0.870285	1821.65	2162
4	GUIDE	used	58853136	7.43	19602	1.000	-0.053	0.000	0.060	0.098	284.607098	1.198128	-1852.51	-636
5	GUIDE	used	58853800	7.97	19601	1.000	0.008	-0.052	0.058	0.091	284.849220	1.406285	-2370.65	-1663
6	GUIDE	used	59377960	7.68	19600	1.000	0.041	0.032	0.077	0.134	283.627467	1.897490	2367.88	-1613
7	GUIDE	used	59376240	7.29	19597	1.000	-0.071	0.029	0.068	0.107	283.651753	1.887471	2273.61	-1613

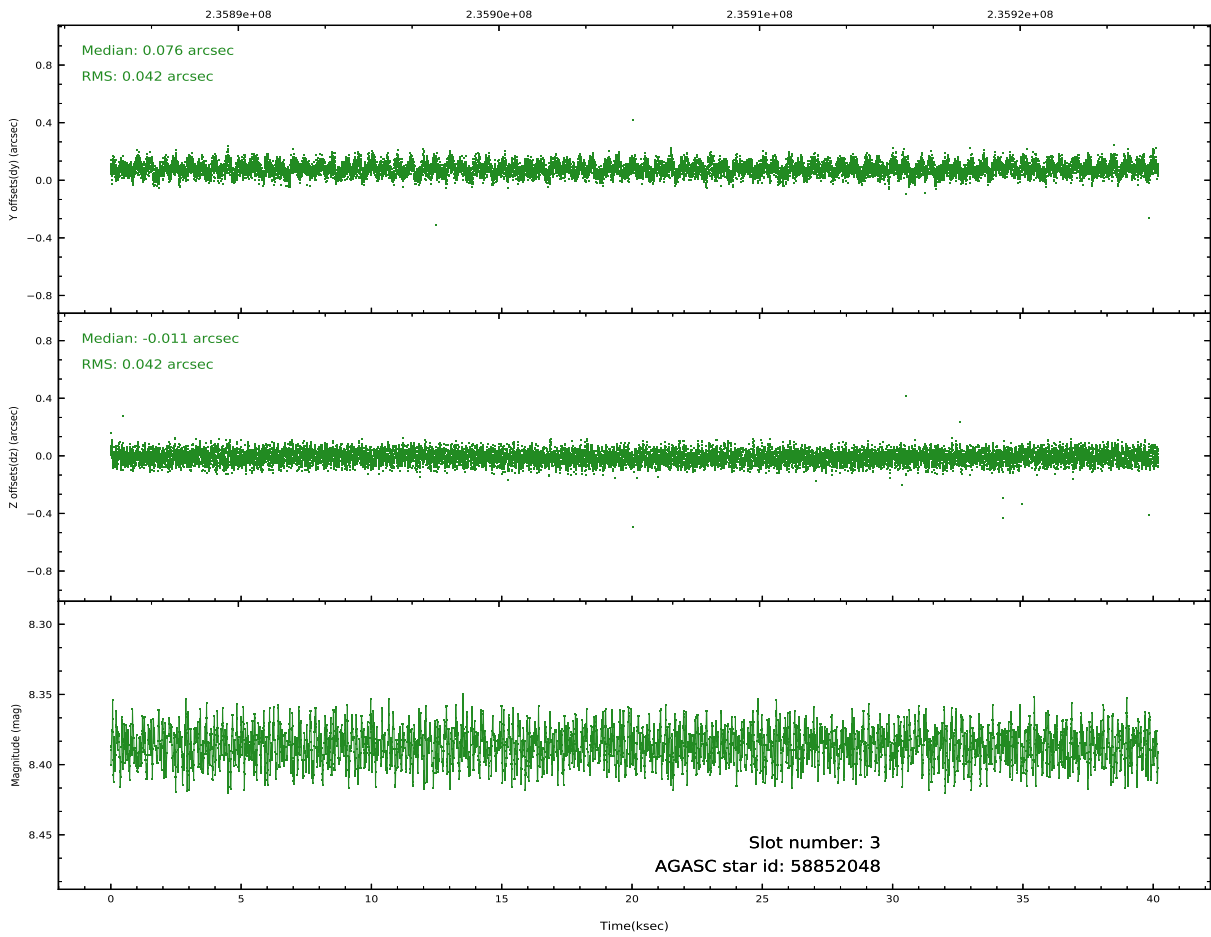
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2.4 Star Slots

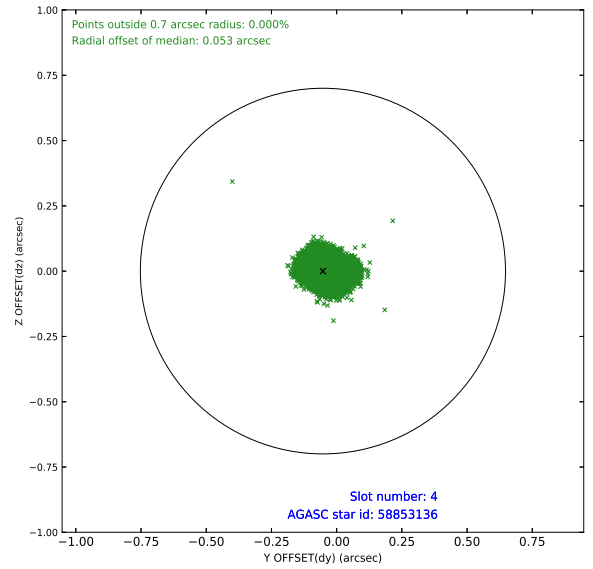
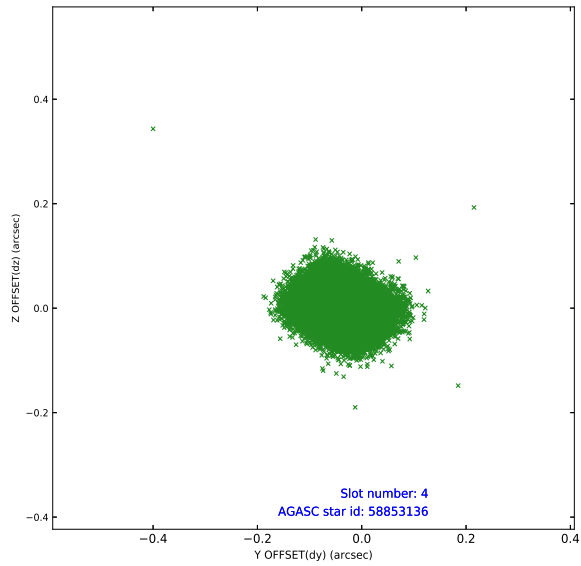
2.4.1 Slot 3



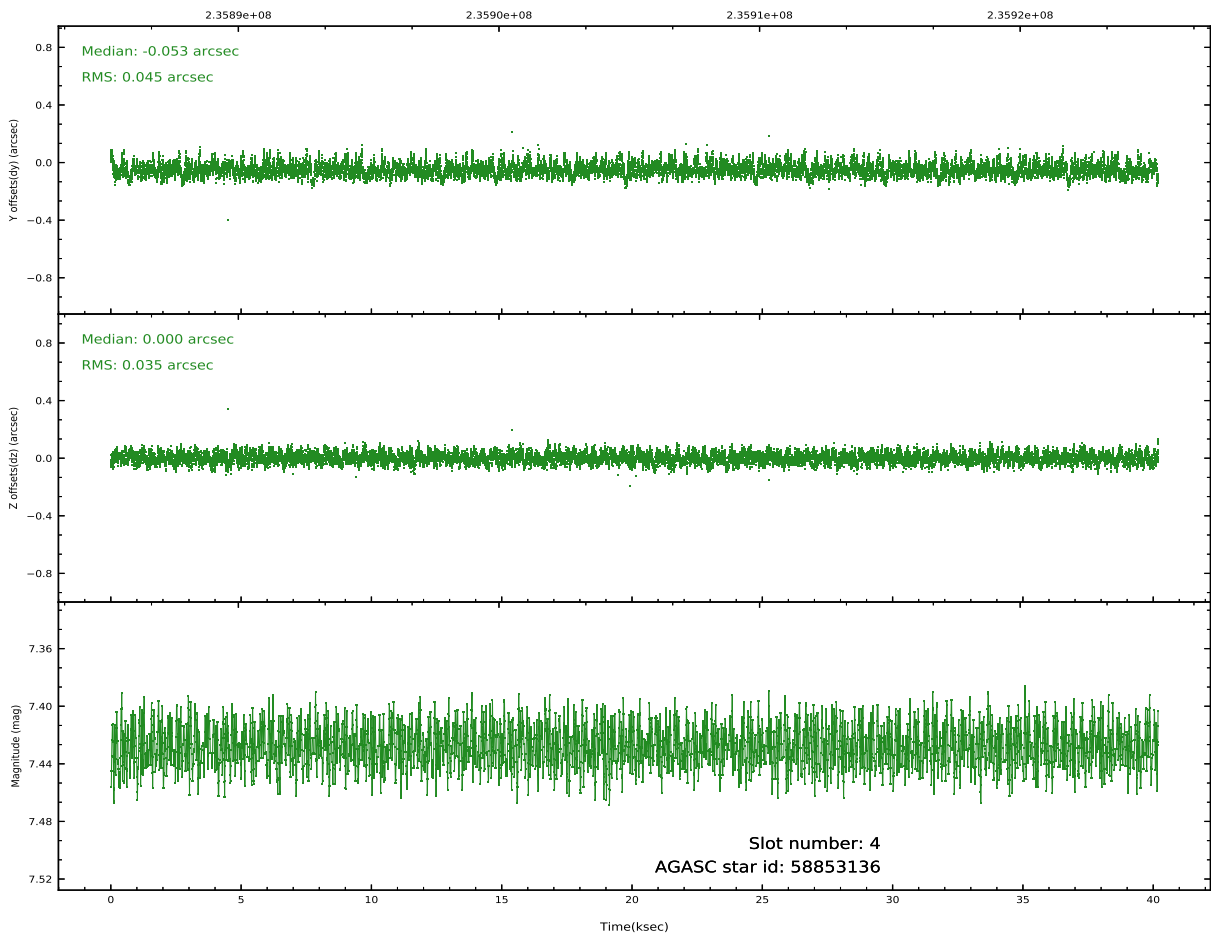
Time (s)



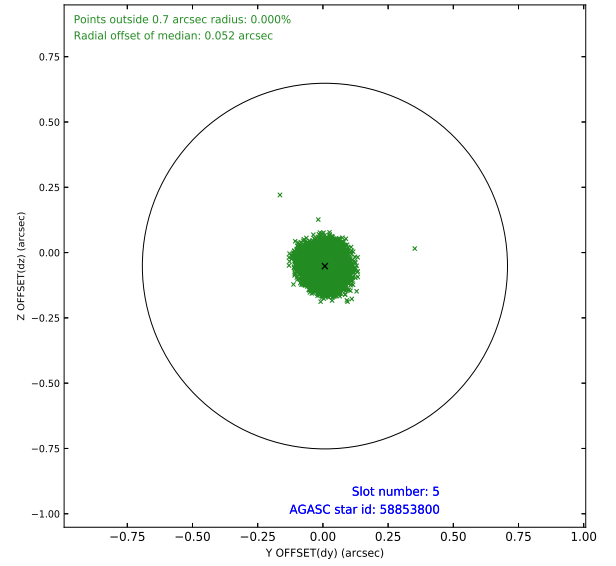
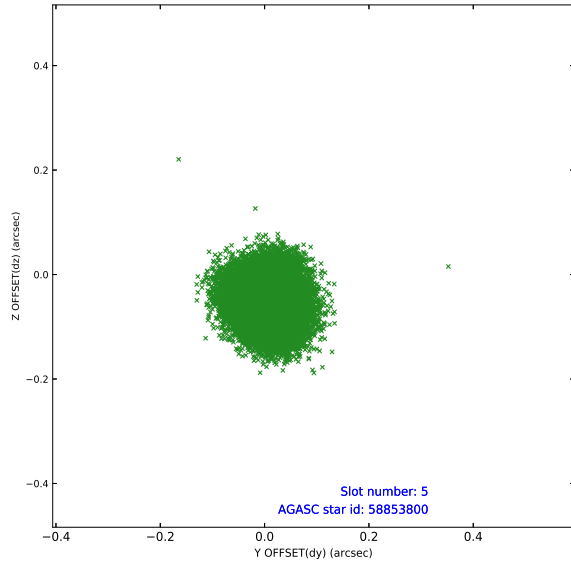
2.4.2 Slot 4



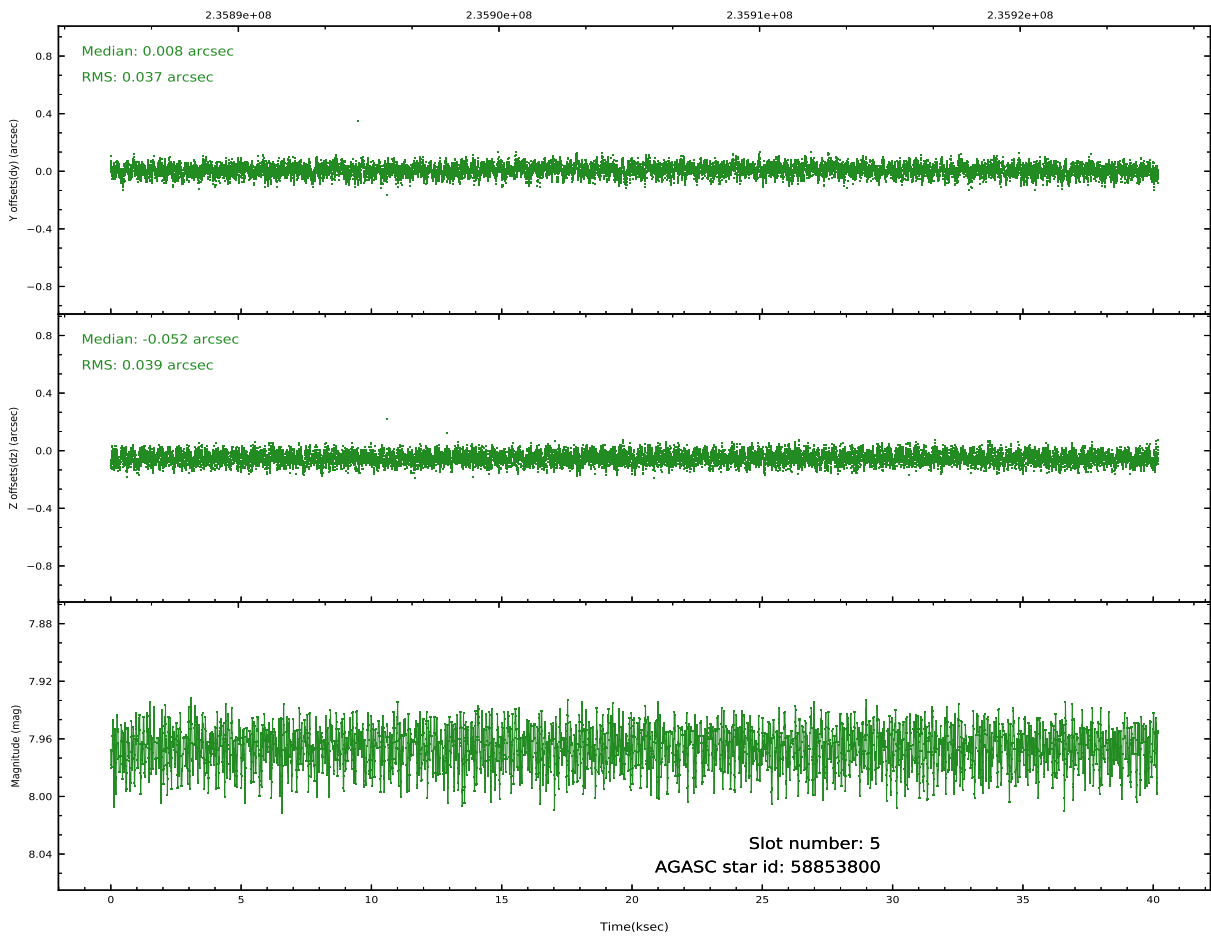
Time (s)



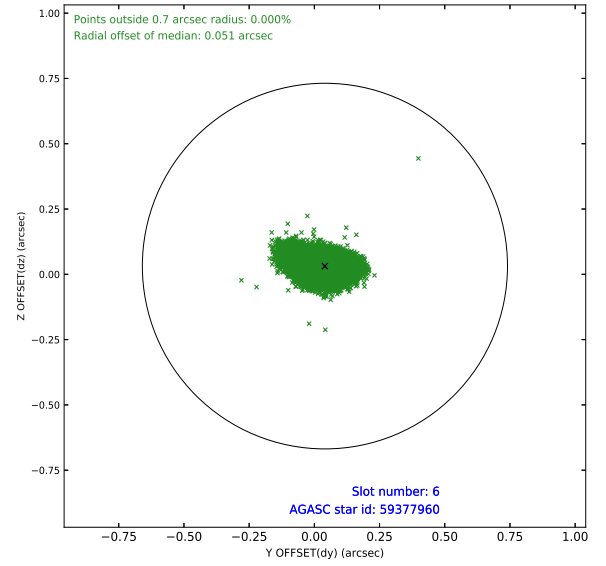
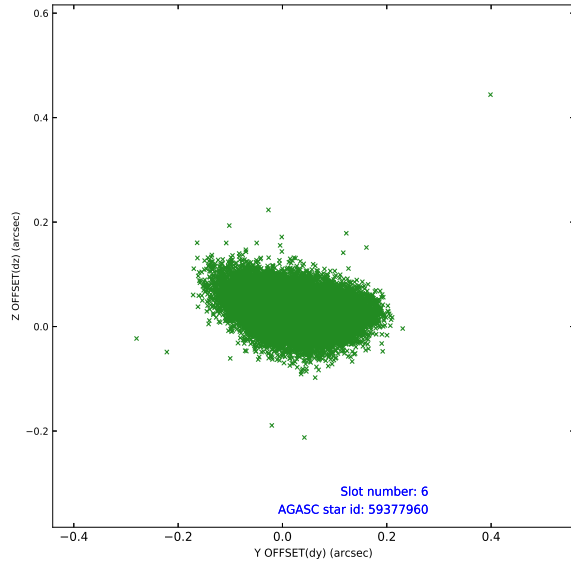
2.4.3 Slot 5



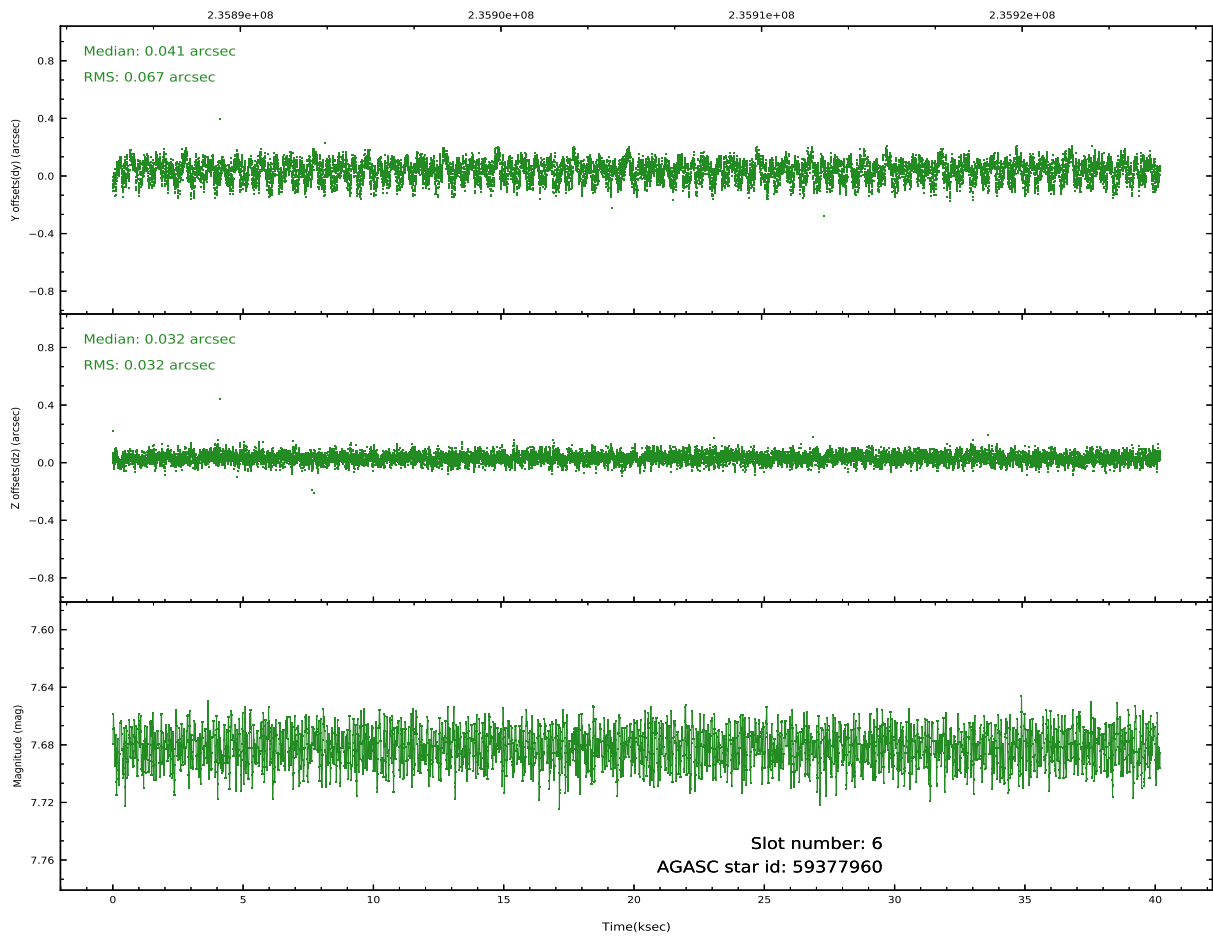
Time (s)



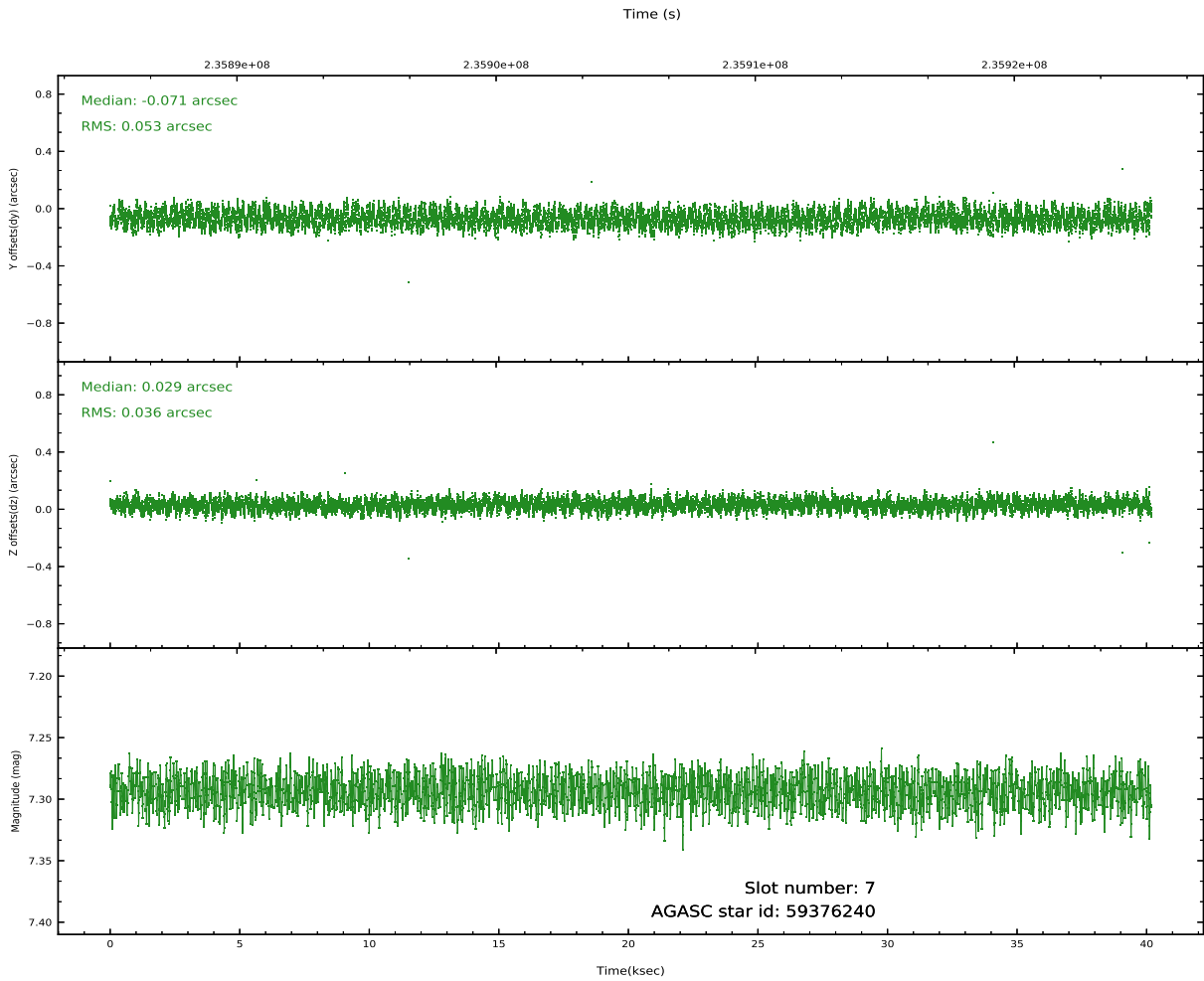
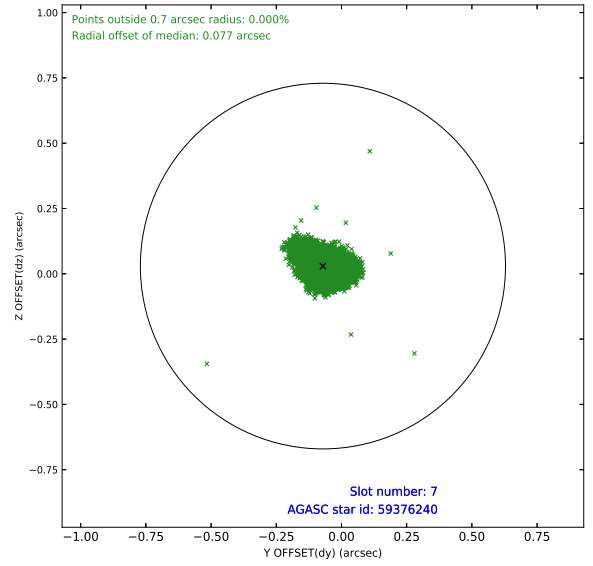
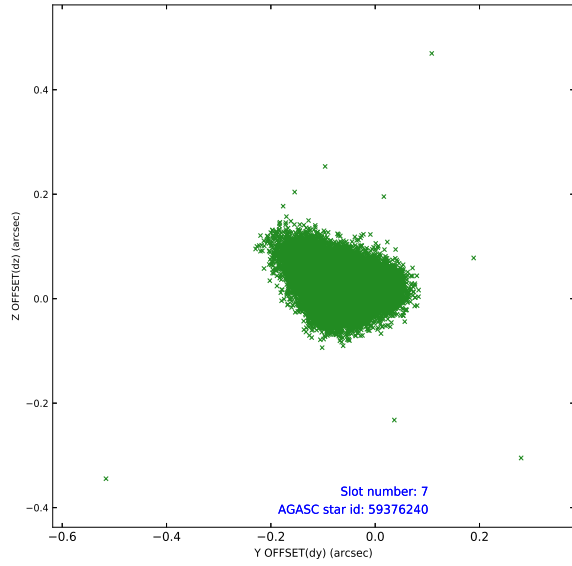
2.4.4 Slot 6



Time (s)

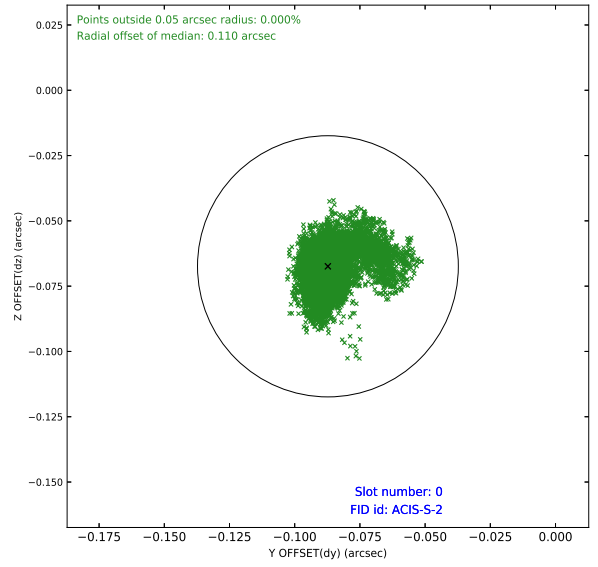
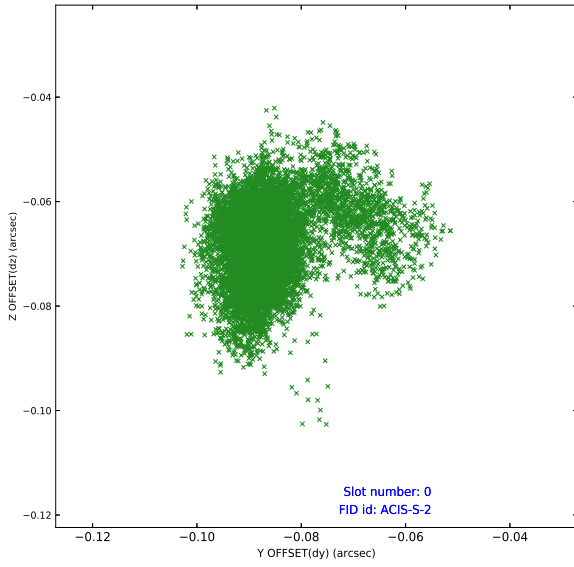


2.4.5 Slot 7

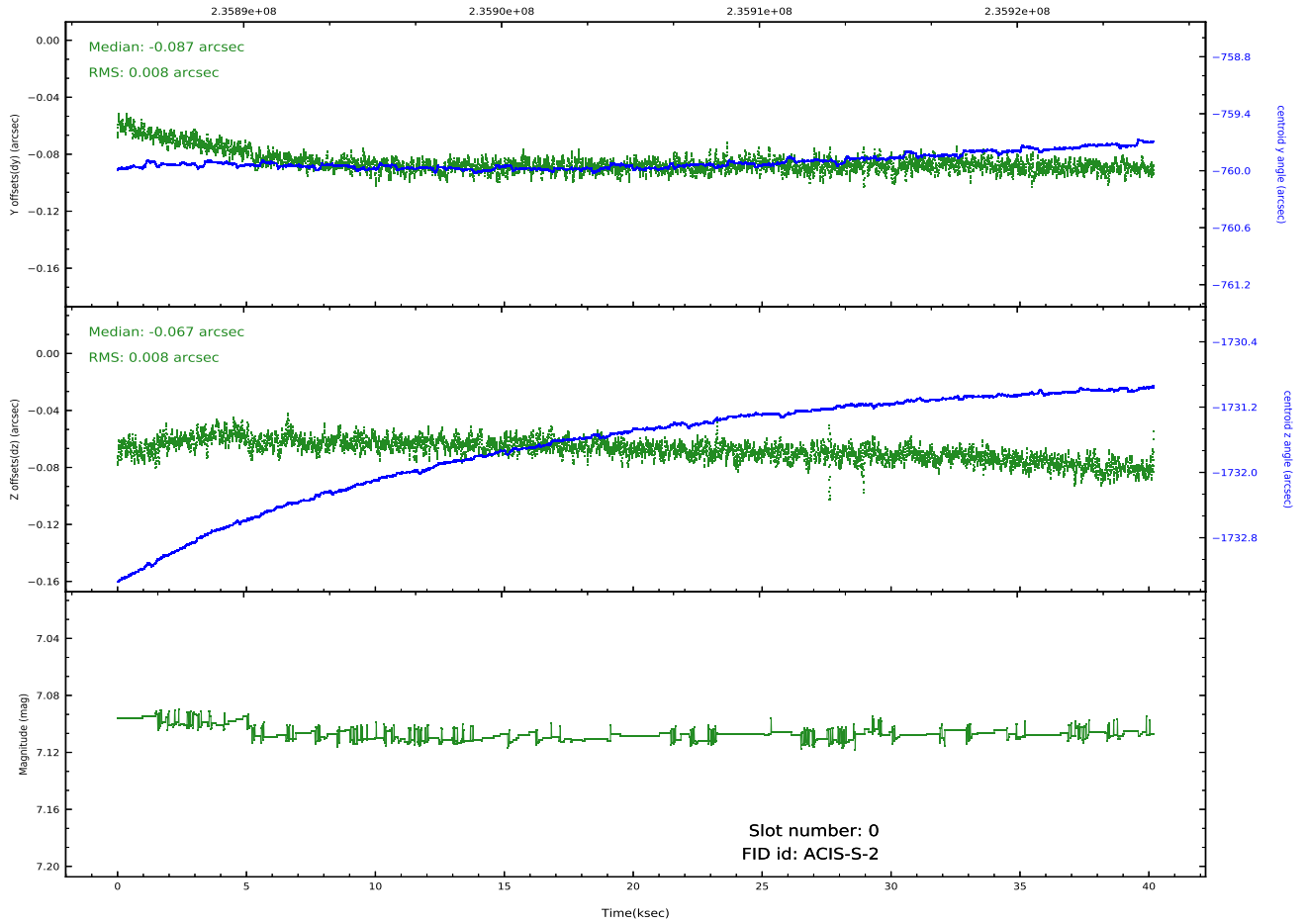


2.5 FID Slots

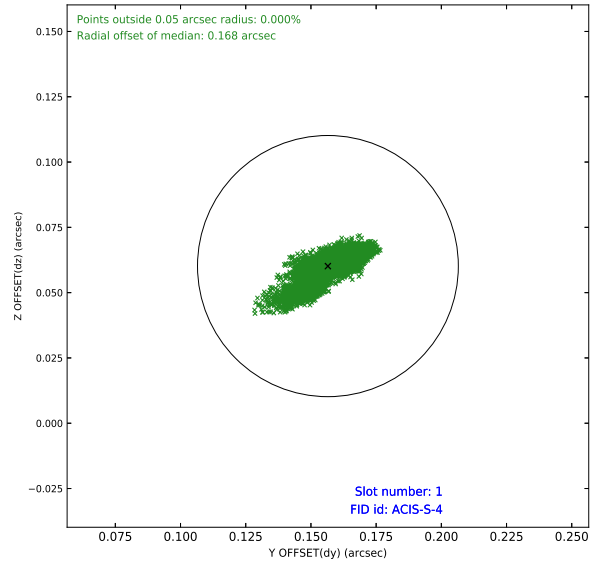
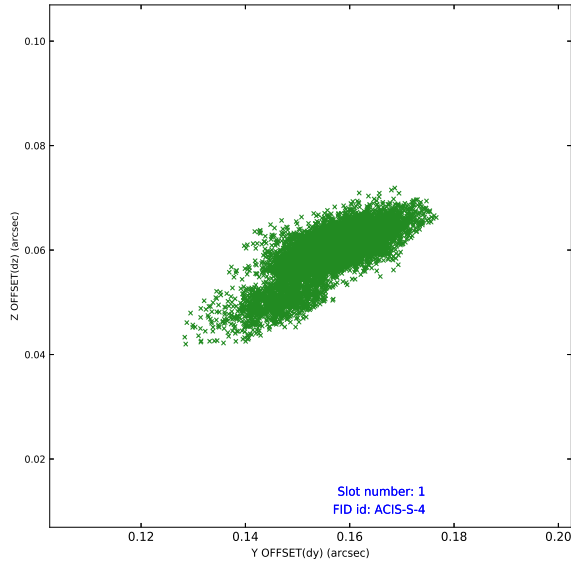
2.5.1 Slot 0



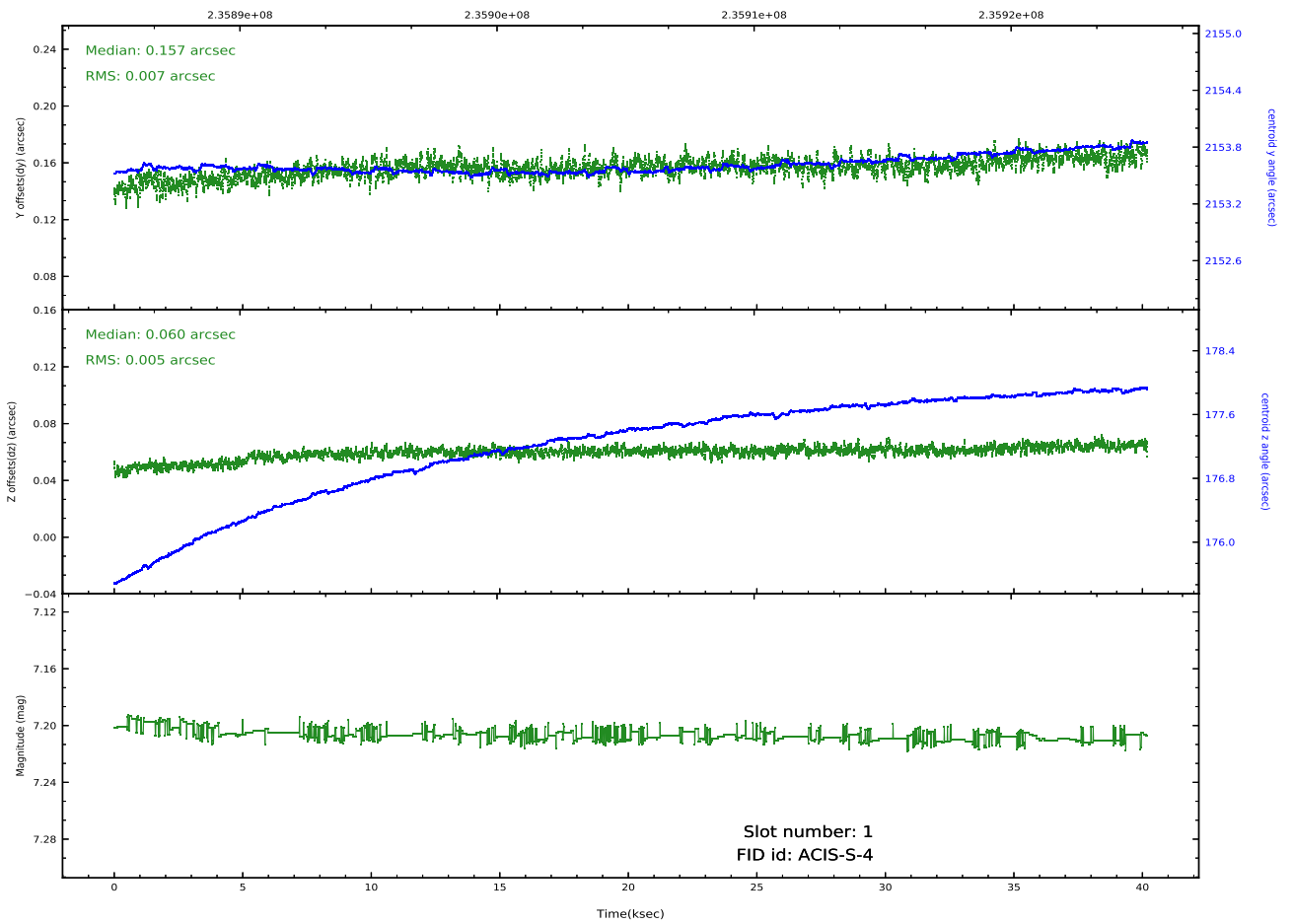
Time (s)



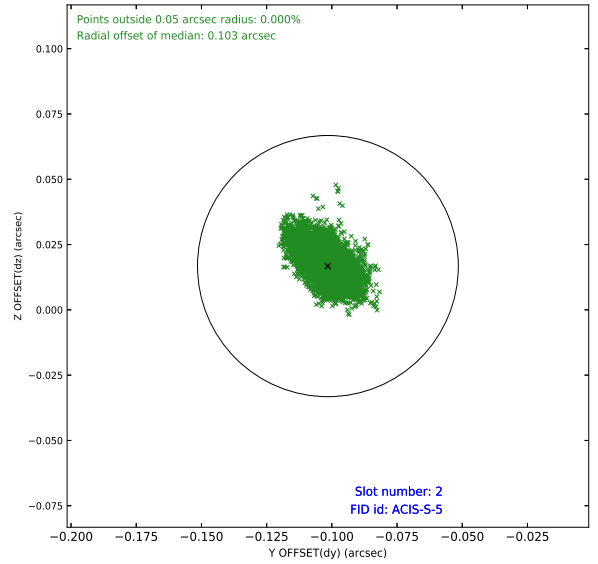
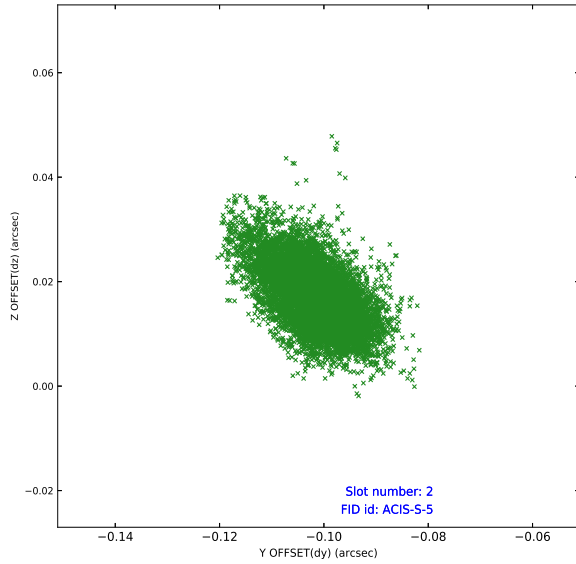
2.5.2 Slot 1



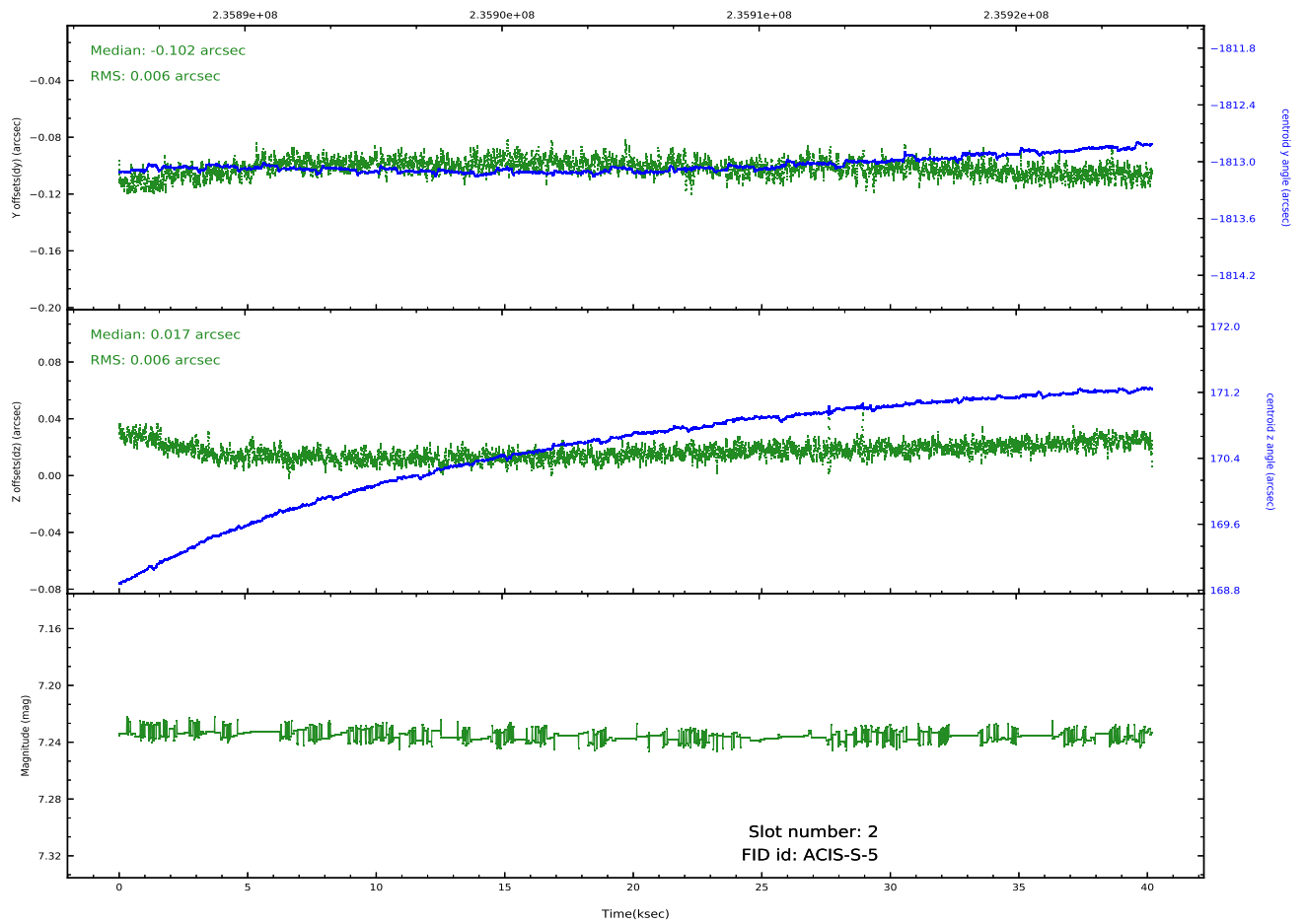
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.08959

A.2 Comments