

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5358 - L2 Version 4
Chandra X-Ray Center

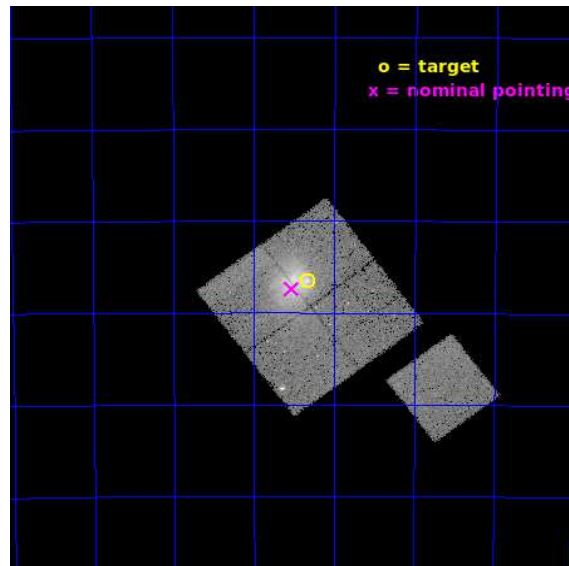
L2 Processing Date : Sep 29 2020

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1 Front

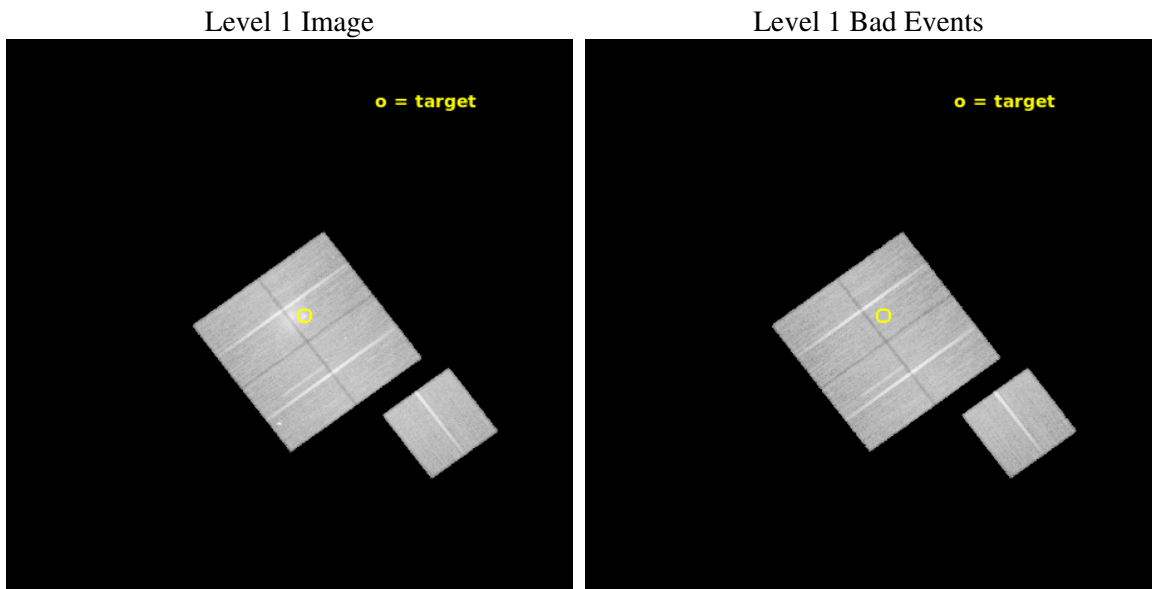
seq_num	800429	Sequence number
obs_id	5358	Observation id
title	THE MOST INTERESTING CLUSTER IN THE UNIVERSE	Proposal title
observer	Maxim Markevitch	Principal investigator
object	1E0657-56	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.5827	Observer's specified target RA [deg]
dec_targ	-55.9415	Observer's specified target Dec [deg]
ra_nom	104.63156809275	Nominal RA [deg]
dec_nom	-55.956314451229	Nominal Dec [deg]
roll_nom	143.24178635809	Nominal Roll [deg]
revision	4	Processing version of data
ontime	32379.417977273	Sum of GTIs [s]
livetime	31956.35704402	Livetime [s]
ontime0	32379.417977273	Sum of GTIs [s]
ontime1	32382.558997363	Sum of GTIs [s]
ontime2	32373.136056721	Sum of GTIs [s]
ontime3	32373.136036813	Sum of GTIs [s]
ontime6	32379.418007195	Sum of GTIs [s]
l2events	128335	Number of level 2 events



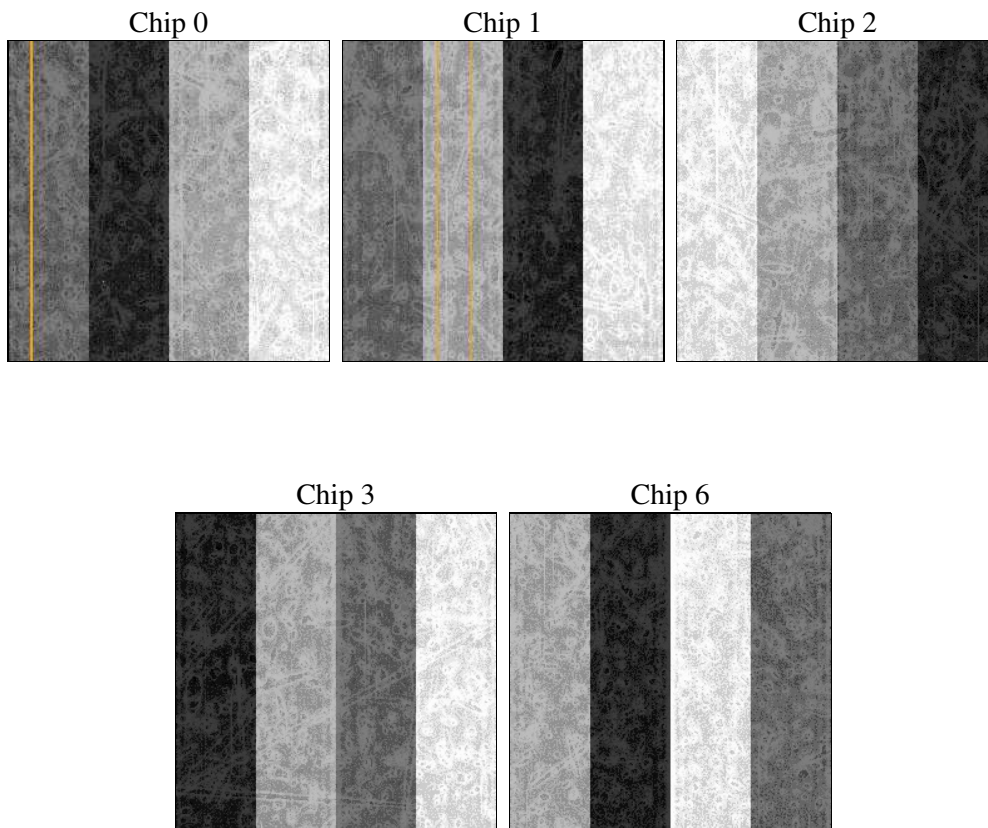
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32231.452000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	32379.417977273	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	32379.417977273	Sum of GTIs [s]
date	2020-09-29T06:38:46	Date and time of file creation	ontime1	32382.558997363	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	32373.136056721	Sum of GTIs [s]
			ontime3	32373.136036813	Sum of GTIs [s]
			ontime6	32379.418007195	Sum of GTIs [s]
			l1events	1060922	Number of level 1 events

2.1.4 Events

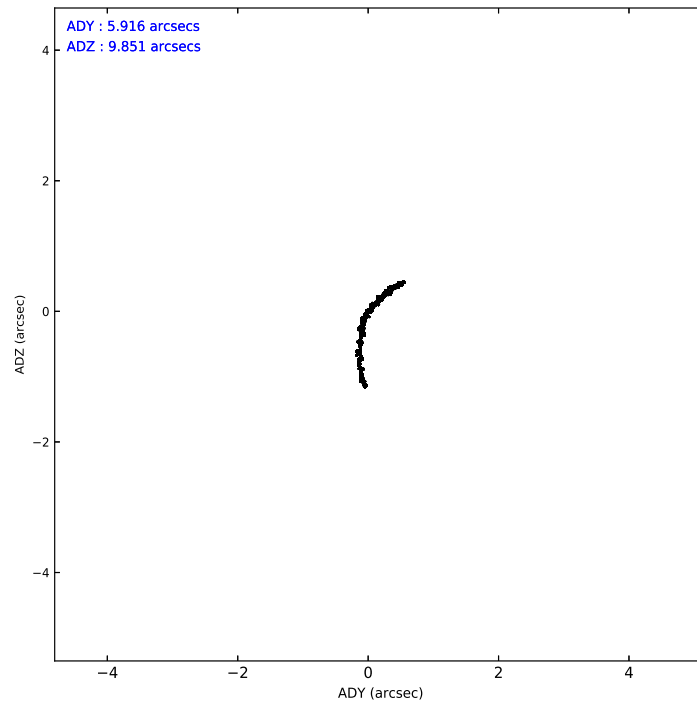
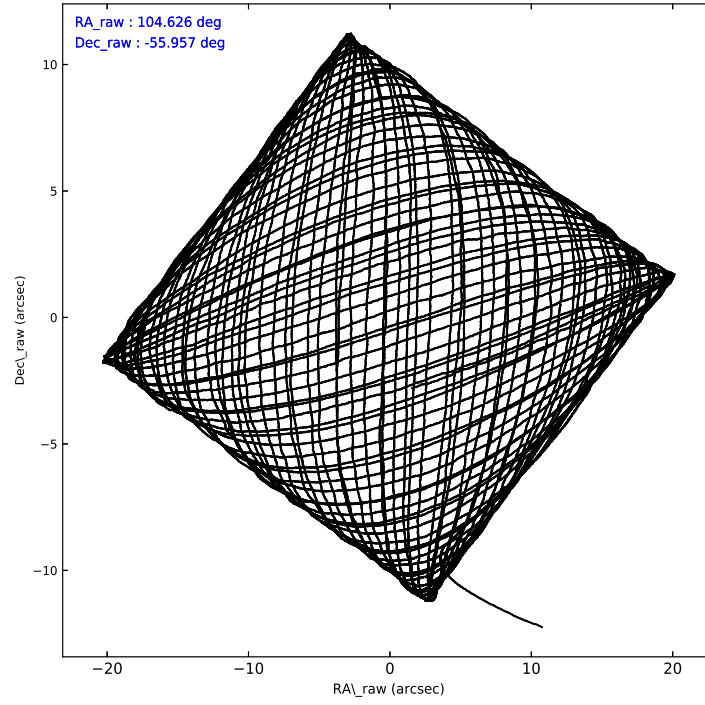
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	219337	210795	214849	211179	204762
rejected events	173412	170175	194170	189686	184034
rejected %	79%	80%	90%	89%	89%

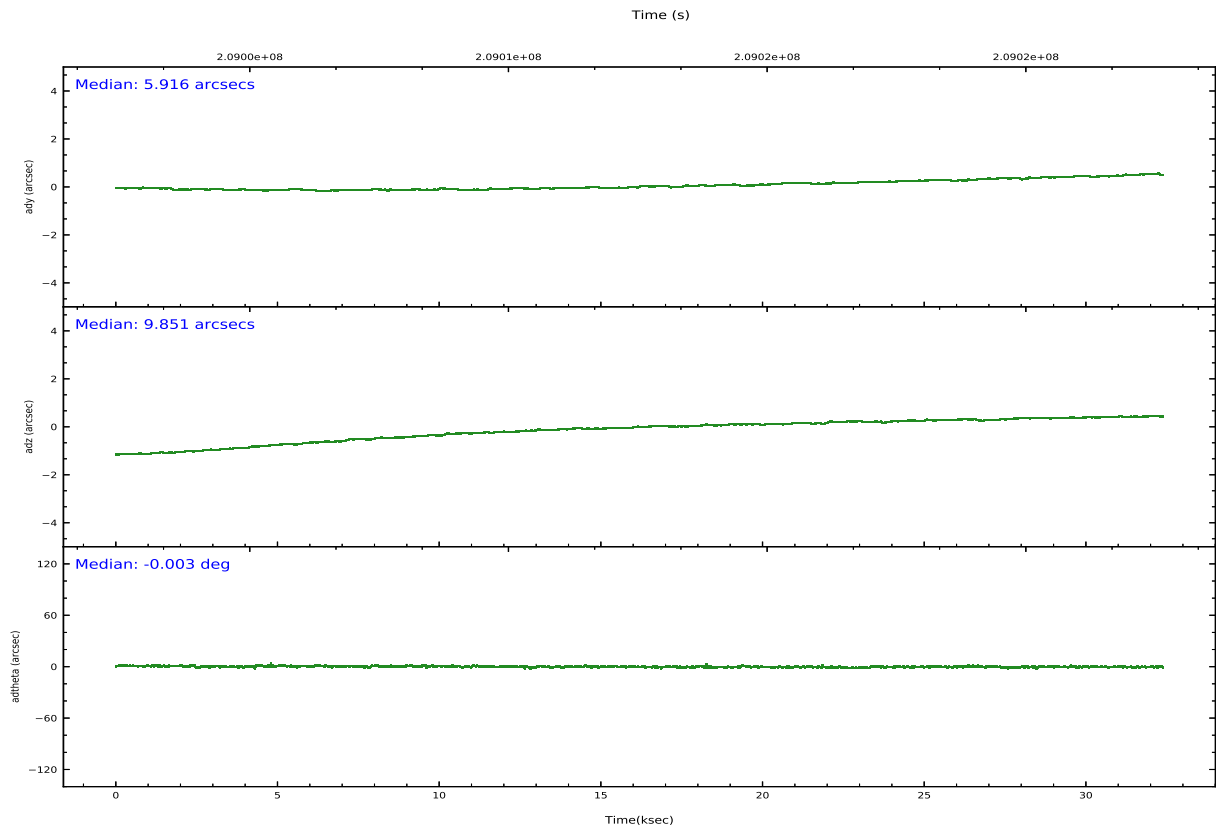
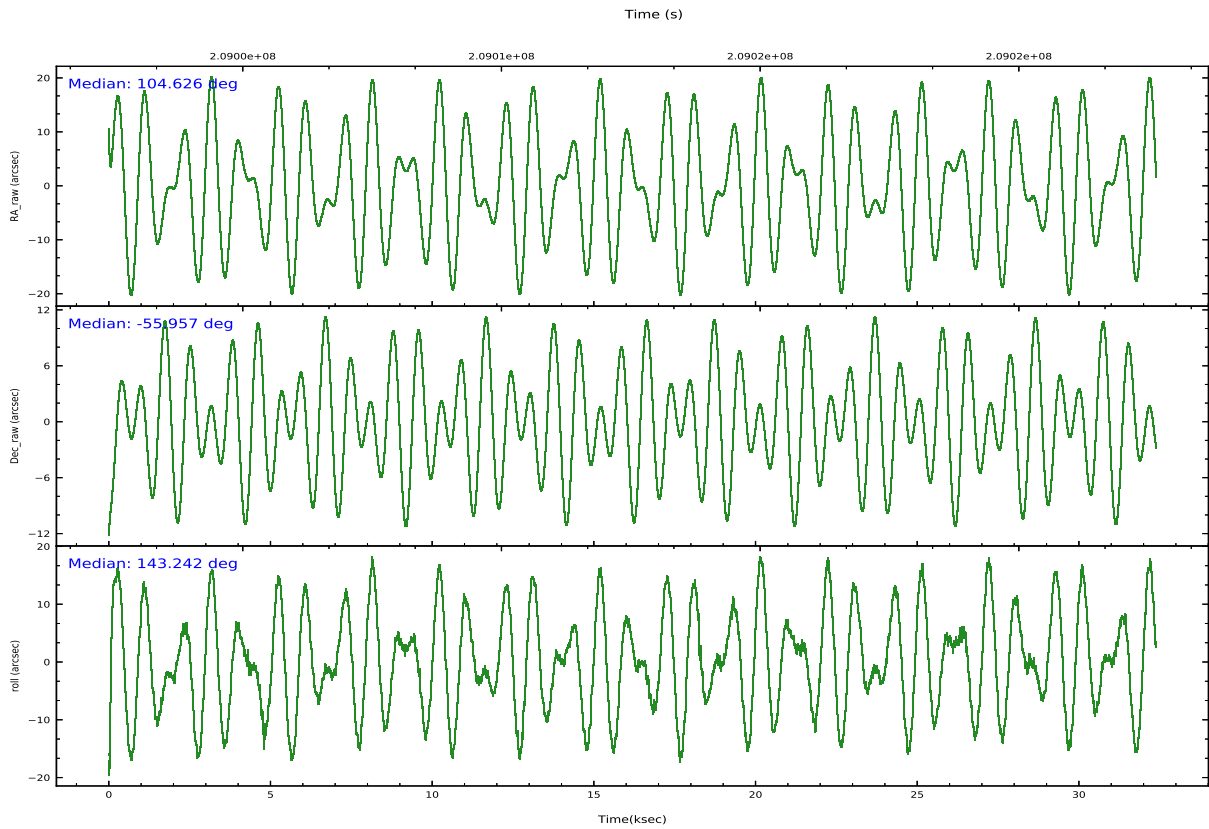
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	27931	22950	8079	8952	7523
	12%	10%	3%	4%	3%
grade 1 events	190	136	102	123	85
	0%	0%	0%	0%	0%
grade 2 events	7523	6883	4697	4423	4355
	3%	3%	2%	2%	2%
grade 3 events	3178	3133	2242	2291	2373
	1%	1%	1%	1%	1%
grade 4 events	3016	2901	2278	2267	2349
	1%	1%	1%	1%	1%
grade 5 events	7053	7696	6800	7849	7968
	3%	3%	3%	3%	3%
grade 6 events	4654	5108	3612	3796	4392
	2%	2%	1%	1%	2%
grade 7 events	165792	161988	187039	181478	175717
	75%	76%	87%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	104.674685	104.63156809275	Subarray requested	NONE	NONE
[deg] Pointing Dec	-55.960653	-55.956314451229	Alternating exposures requested	N	N
[deg] Pointing Roll	143.076217	143.24178635809	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-242.592463	-242.5987405016197			
[mm] SIM translation stage offset	9	9.006287498690028			
[s] Observation start time (MET)	208996016.184000	208994850.1902			
Observation start date	2004-08-15T22:25:52	2004-08-15T22:07:30			
[s] Observation end time (MET)	209028247.184000	209028483.51669			
Observation end date	2004-08-16T07:23:03	2004-08-16T07:28:03			
Read mode	TIMED	TIMED			

2.3 Aspect





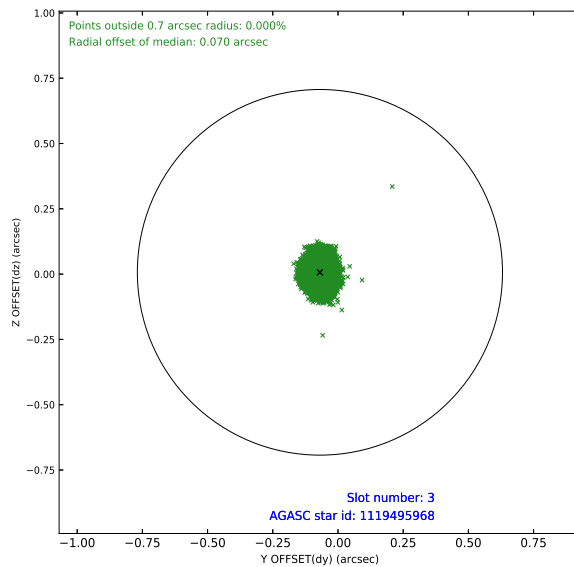
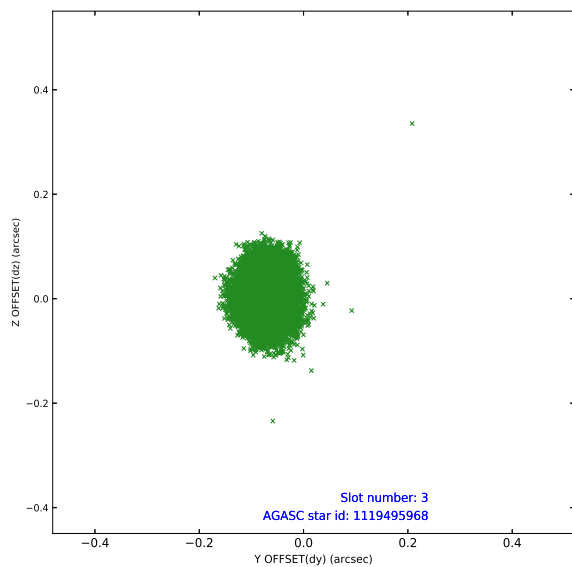
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-2	7.17	7898	1.000	-0.054	-0.073	0.024	0.042	0.000000	0.000000	-759.85	-655
1	FID		ACIS-I-4	7.23	7899	1.000	0.188	0.055	0.016	0.024	0.000000	0.000000	2154.42	1250
2	FID		ACIS-I-5	7.23	7901	1.000	-0.238	0.089	0.013	0.024	0.000000	0.000000	-1814.30	1249
3	GUIDE	used	1119495968	7.07	15801	1.000	-0.069	0.007	0.052	0.079	105.873528	-55.948238	-1917.34	-1470
4	GUIDE	used	1119496704	7.85	15794	1.000	0.141	0.044	0.062	0.099	104.368364	-55.667750	1130.05	-467
5	GUIDE	used	1119499792	7.25	15799	1.000	-0.089	-0.042	0.058	0.092	104.350048	-56.101305	216.21	797
6	GUIDE	used	1120026344	6.71	15801	1.000	0.021	-0.062	0.061	0.100	104.651539	-56.394853	-902.19	1277
7	GUIDE	used	1119500592	8.69	15797	1.000	-0.010	0.058	0.090	0.144	105.814889	-55.642715	-1175.21	-2291

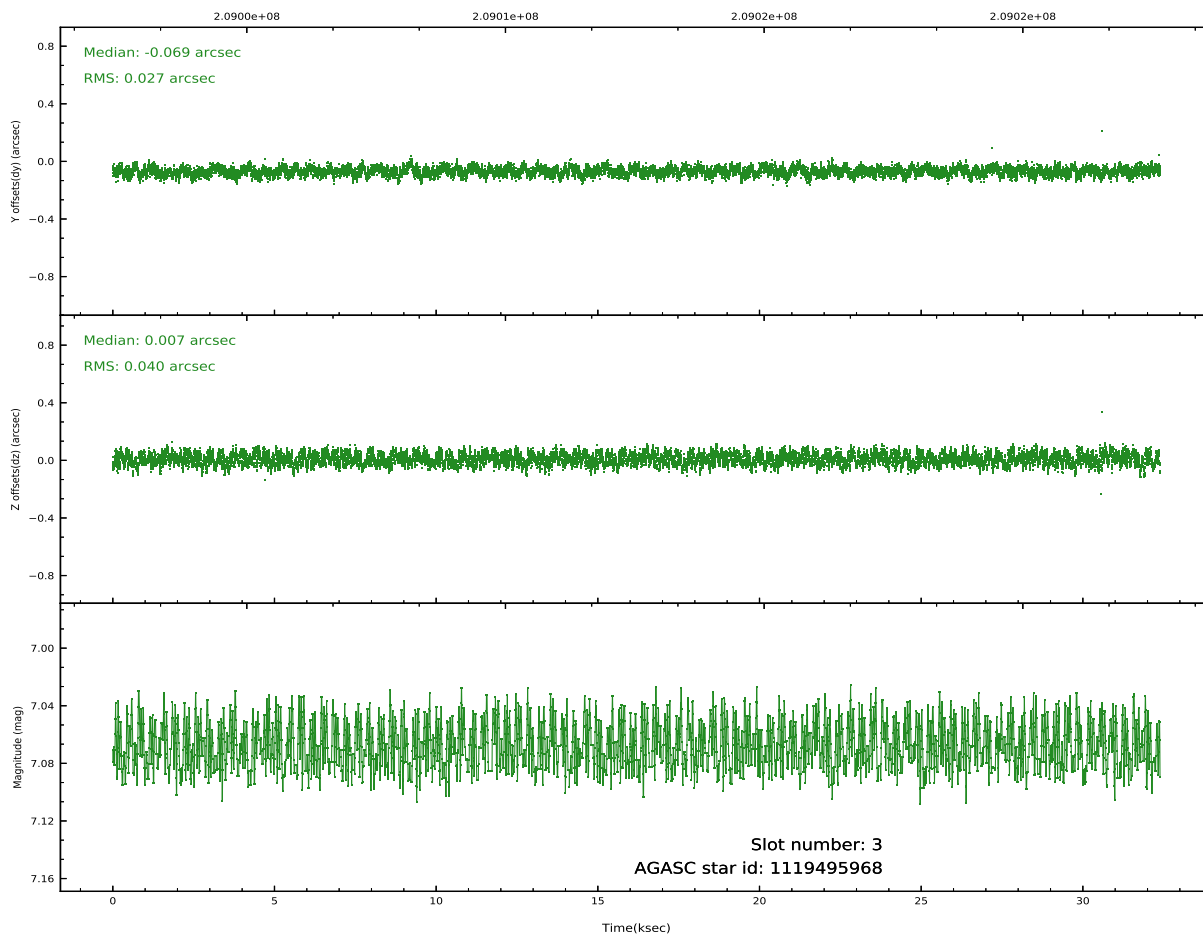
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2.4 Star Slots

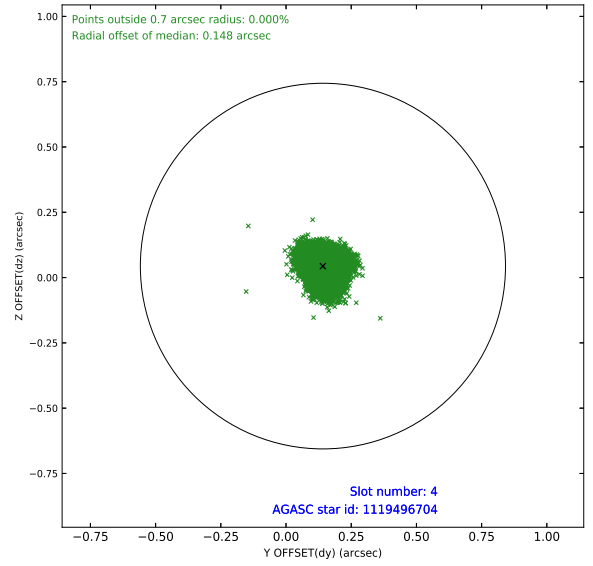
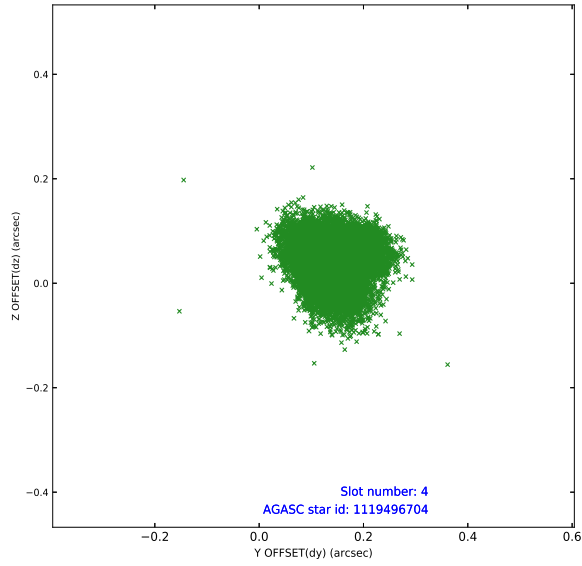
2.4.1 Slot 3



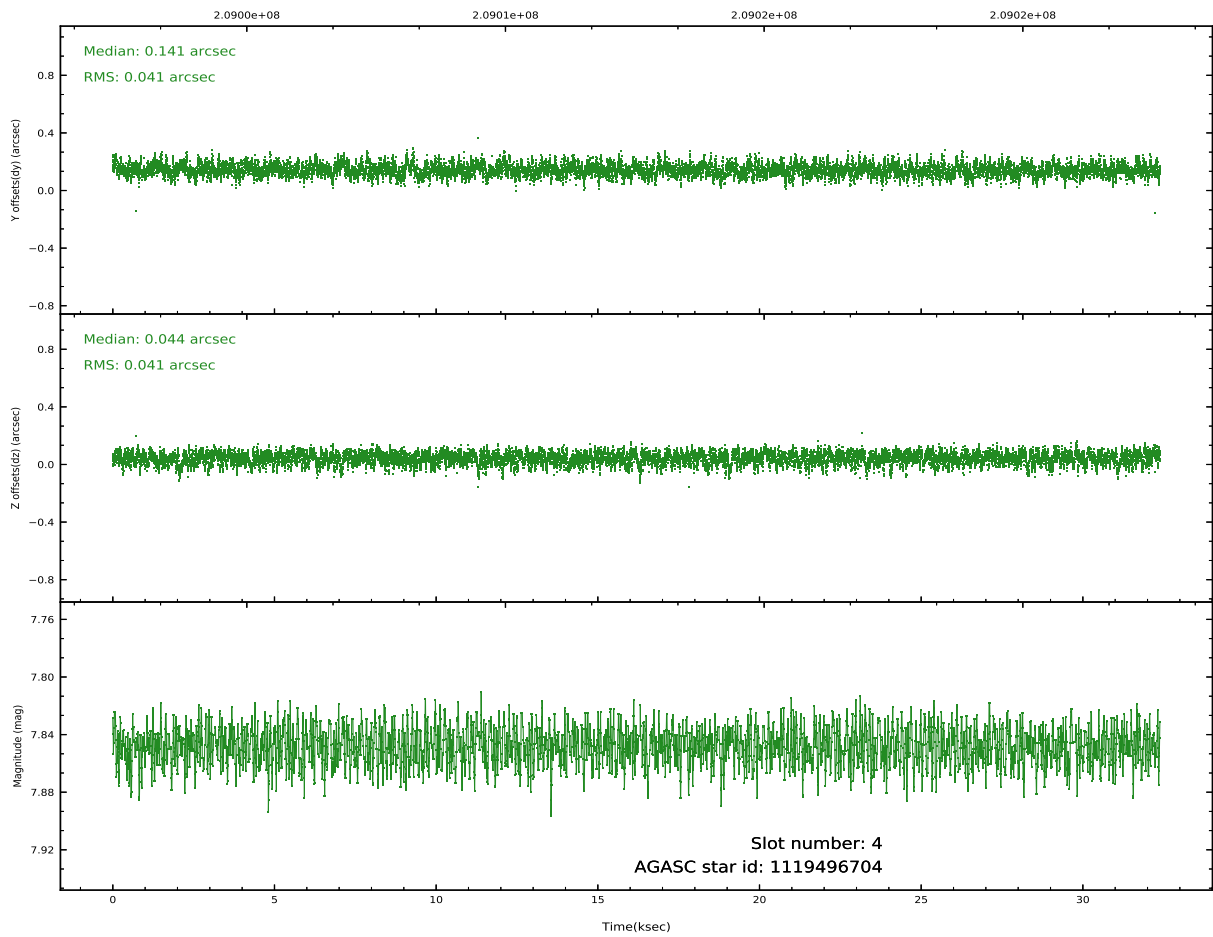
Time (s)



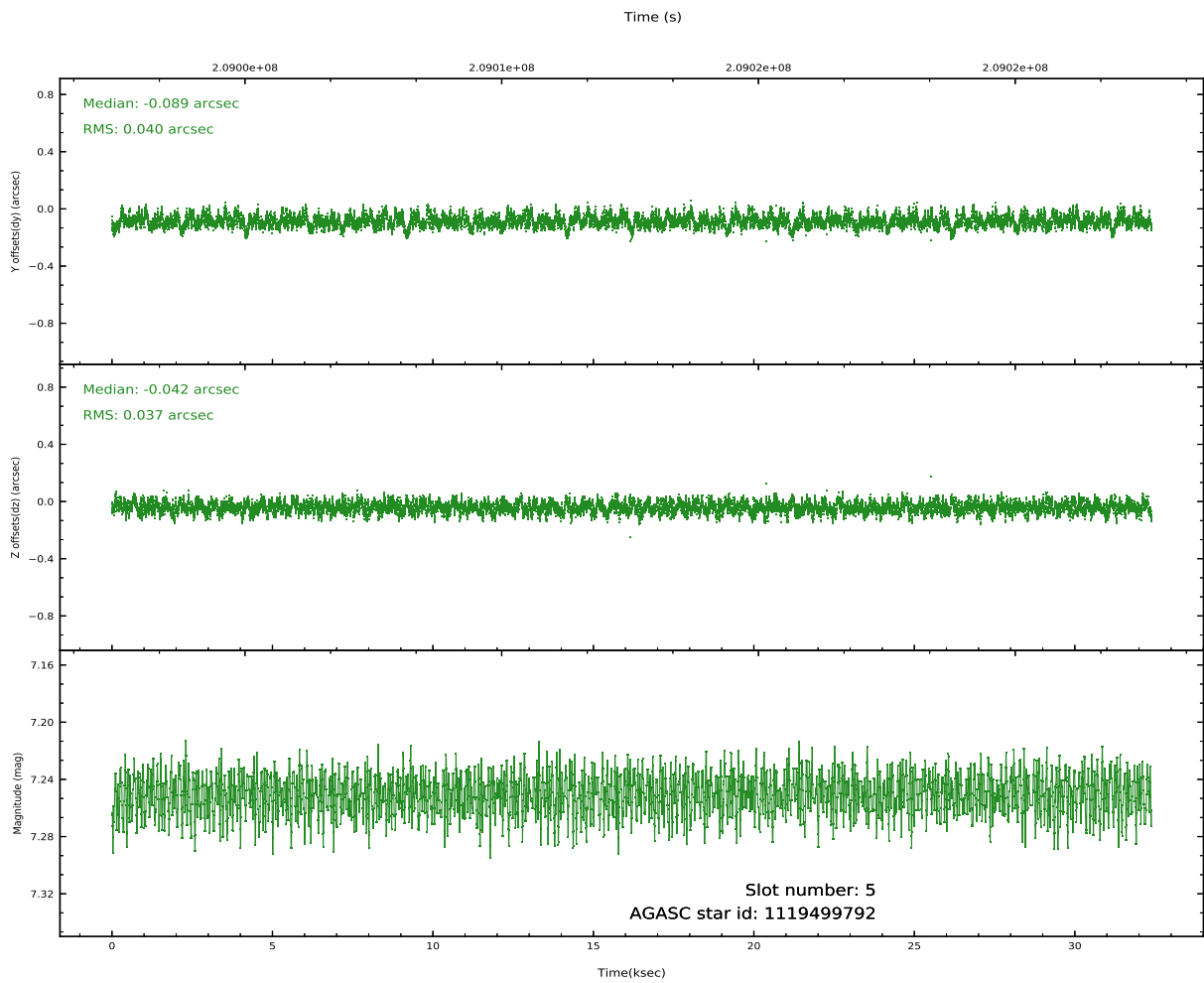
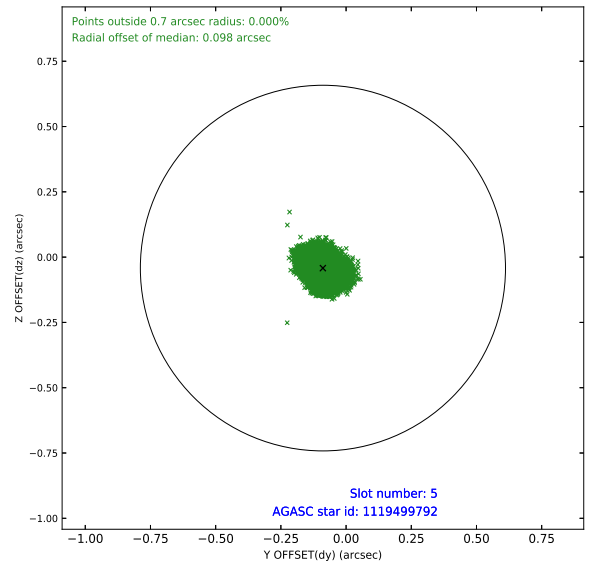
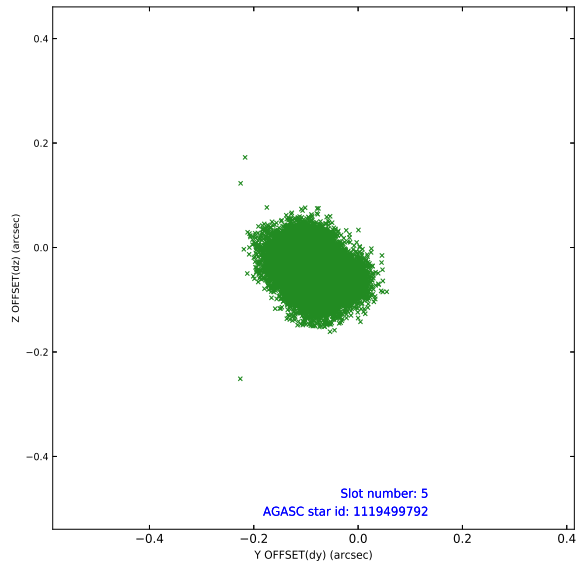
2.4.2 Slot 4



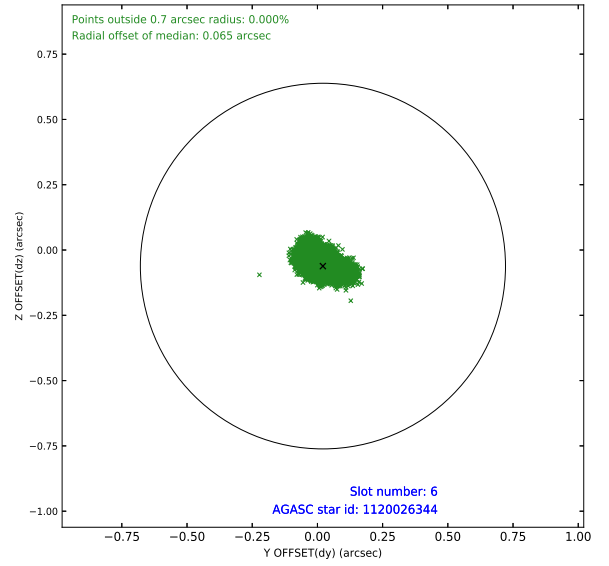
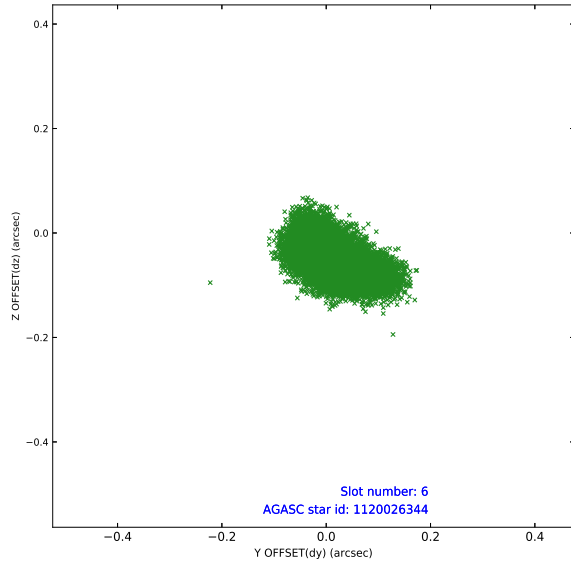
Time (s)



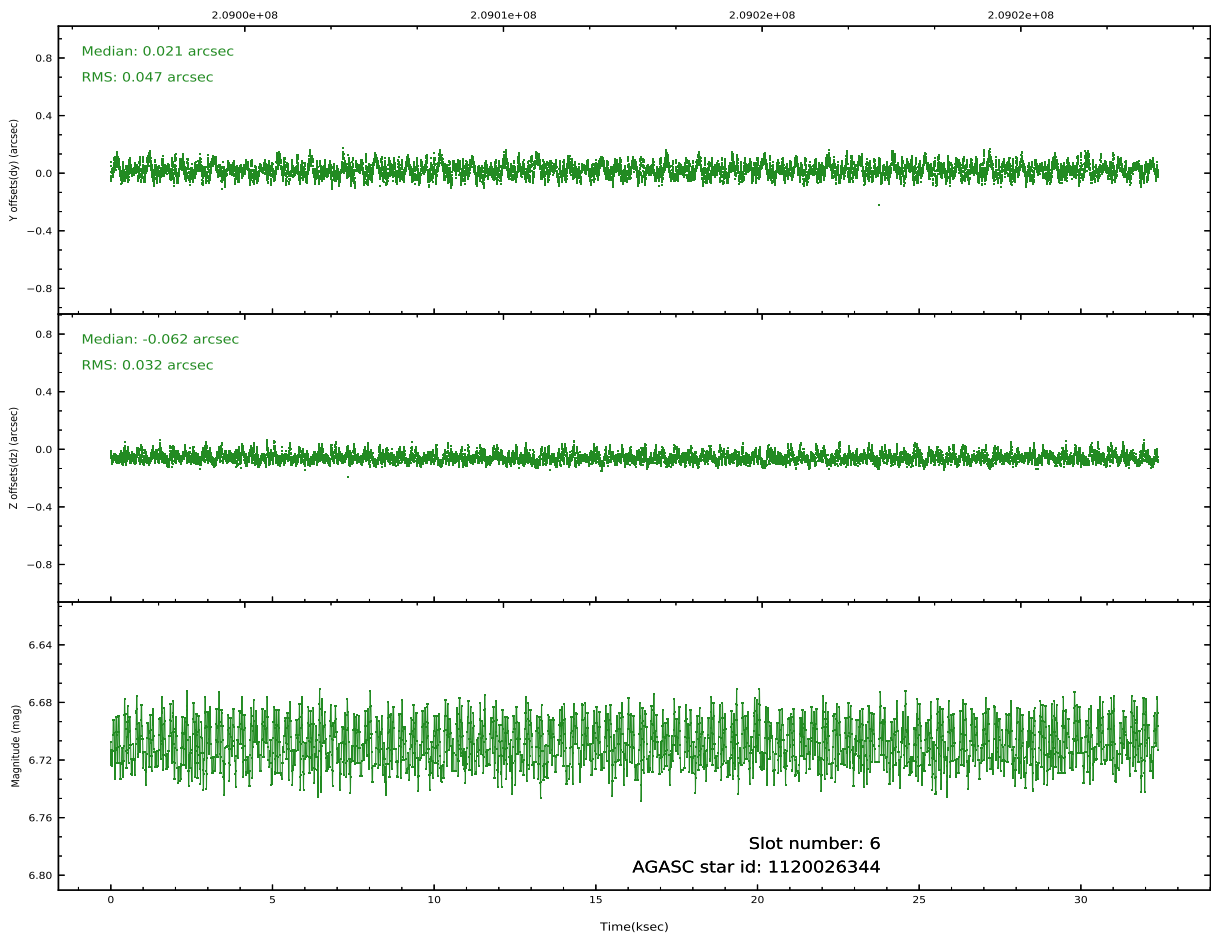
2.4.3 Slot 5



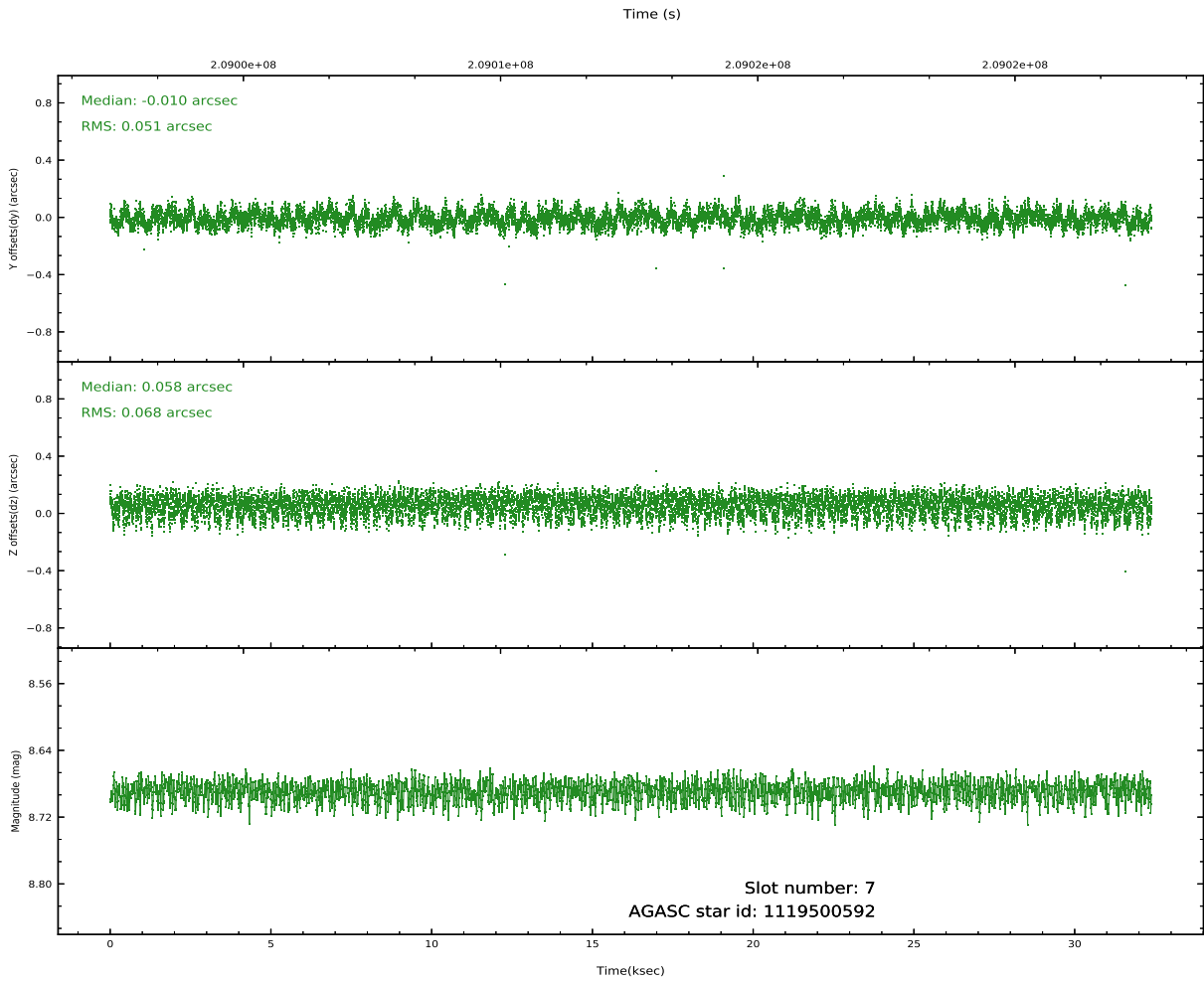
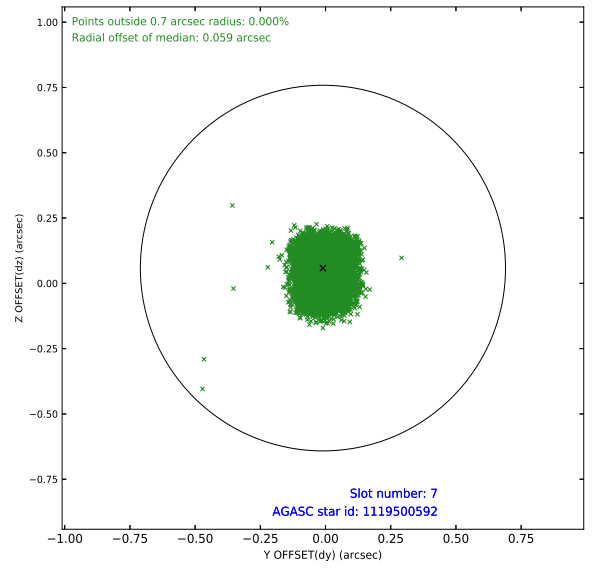
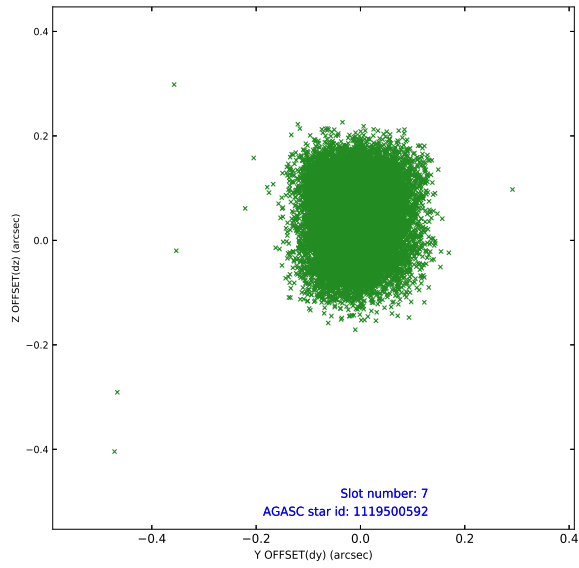
2.4.4 Slot 6



Time (s)

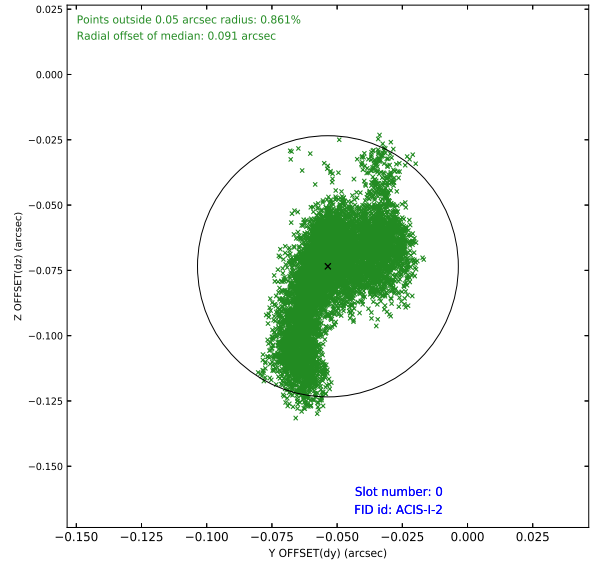
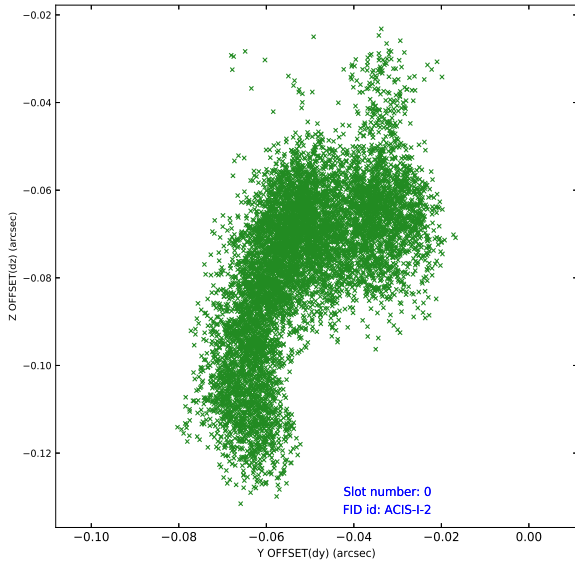


2.4.5 Slot 7

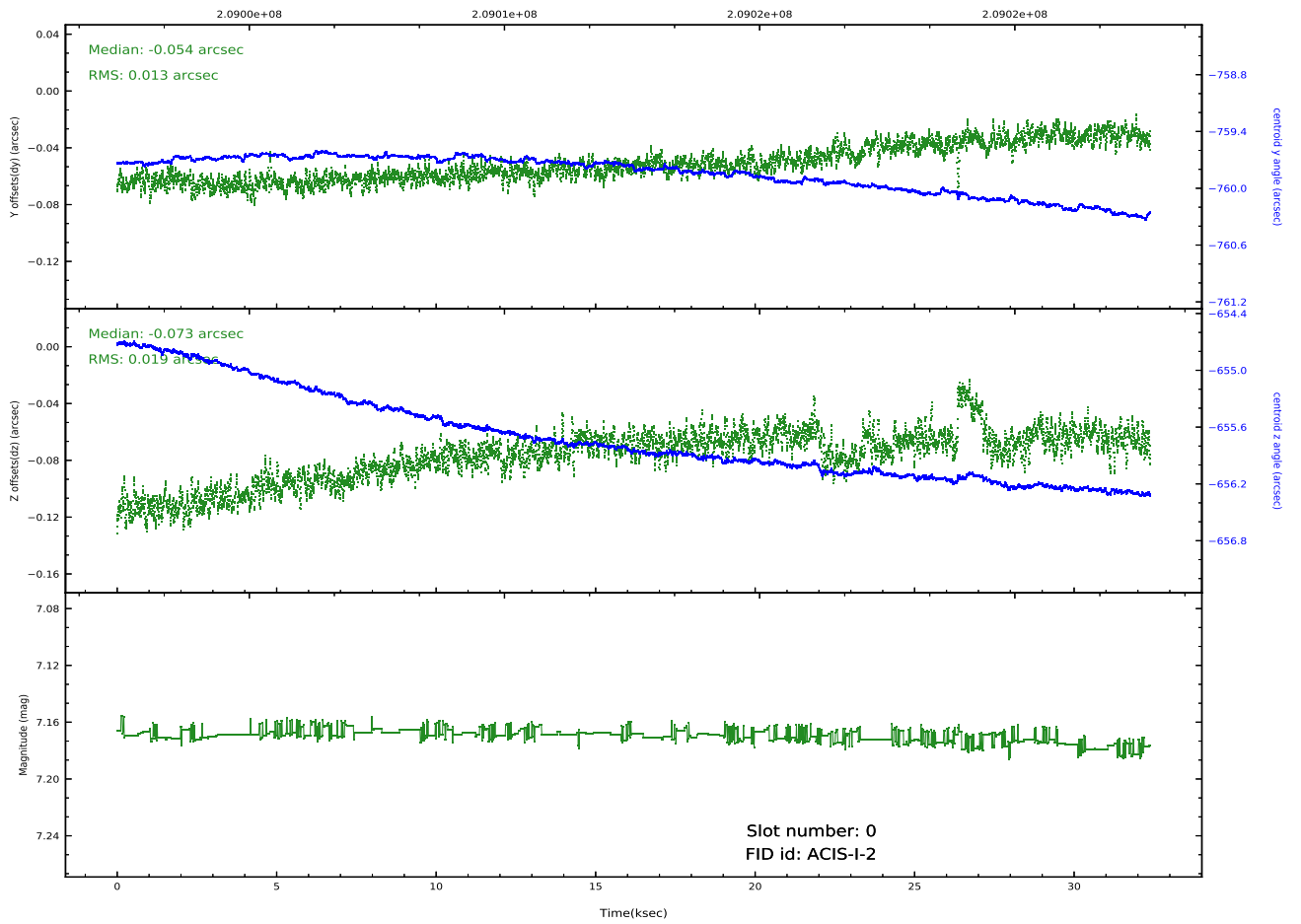


2.5 FID Slots

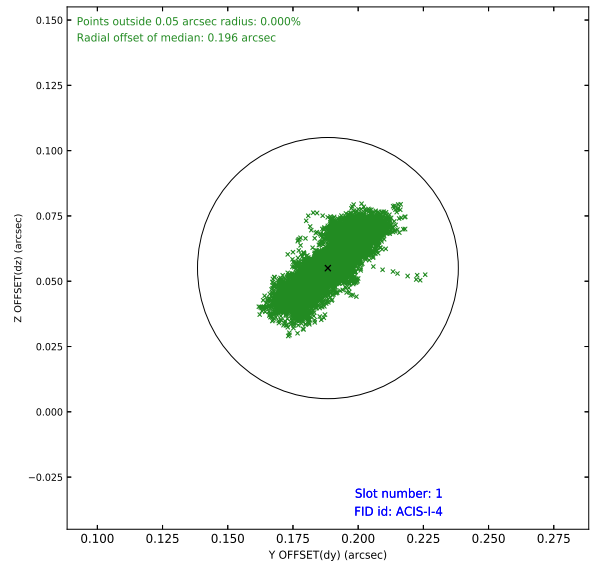
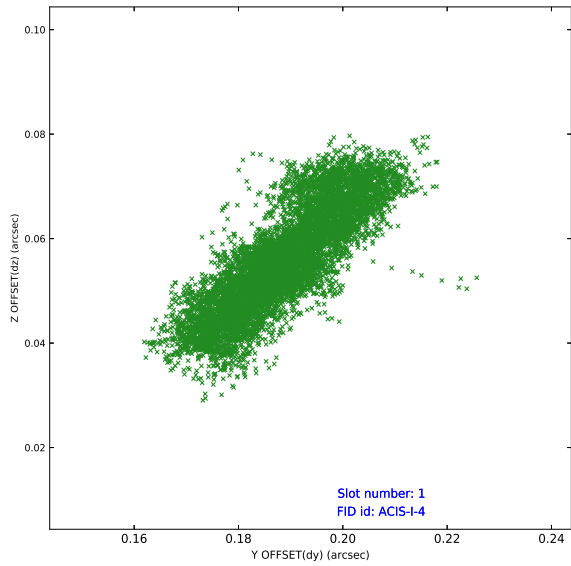
2.5.1 Slot 0



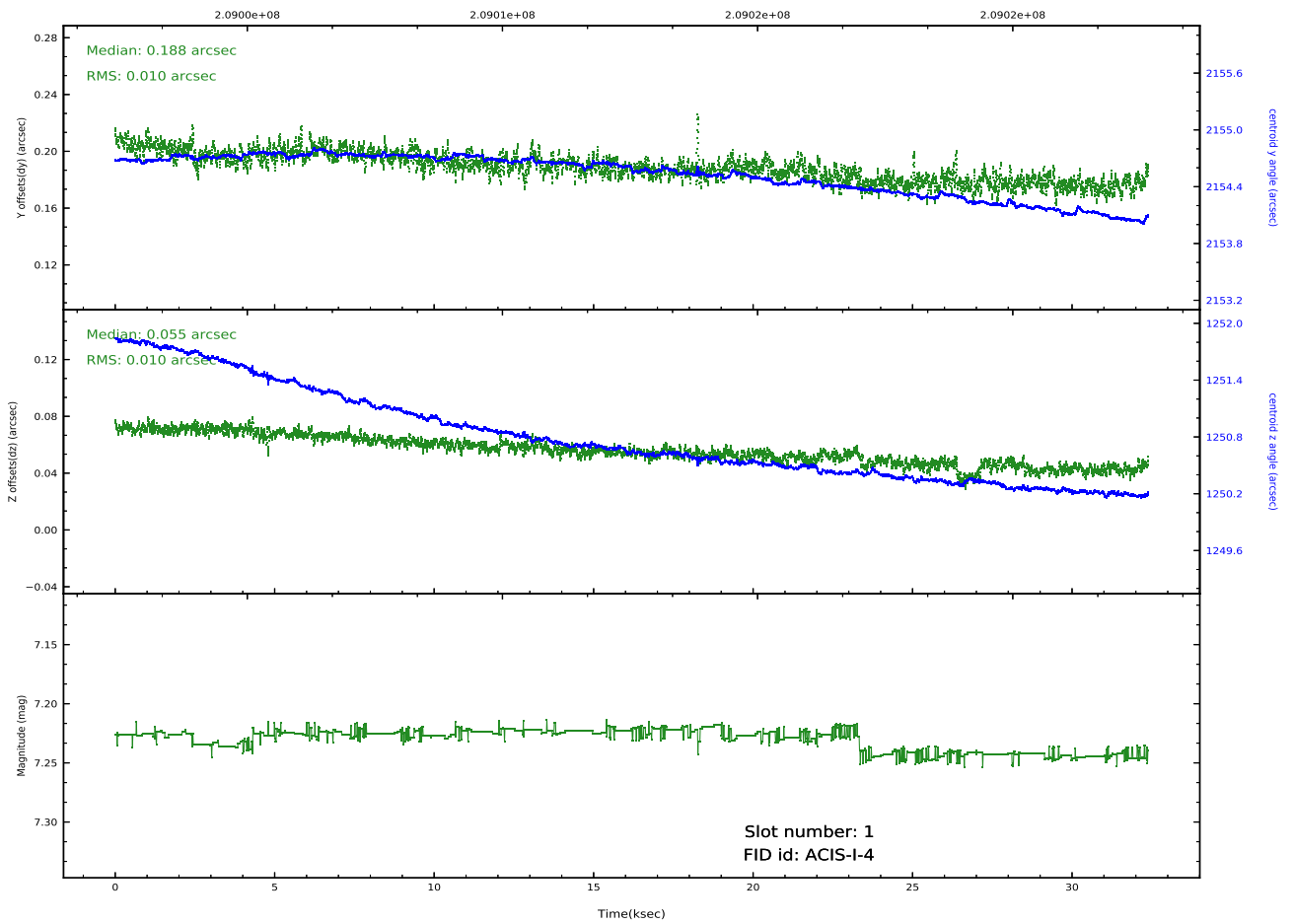
Time (s)



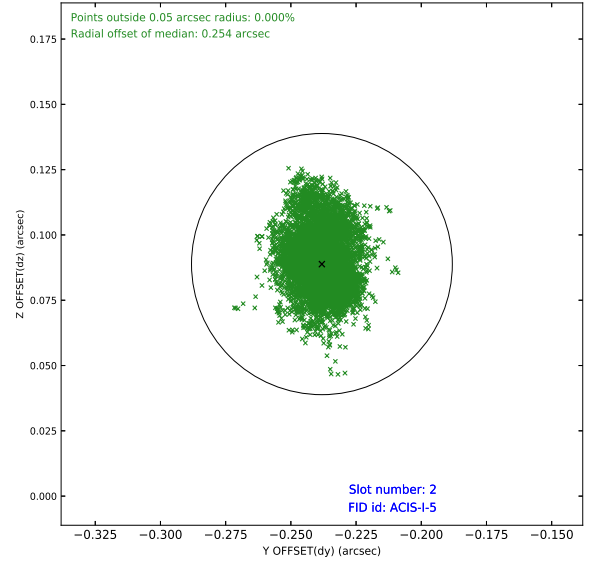
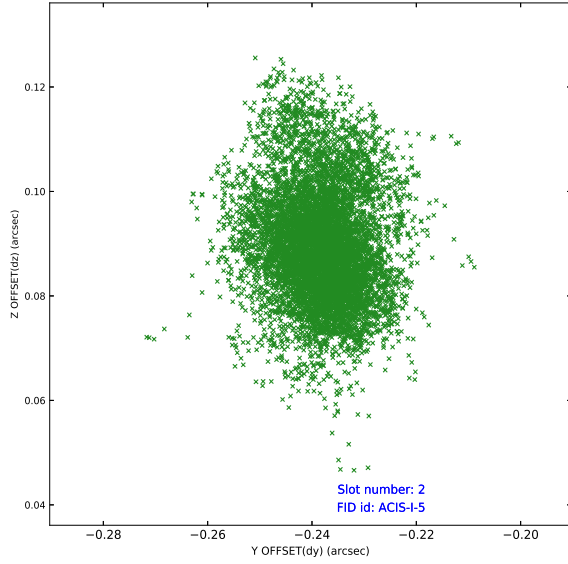
2.5.2 Slot 1



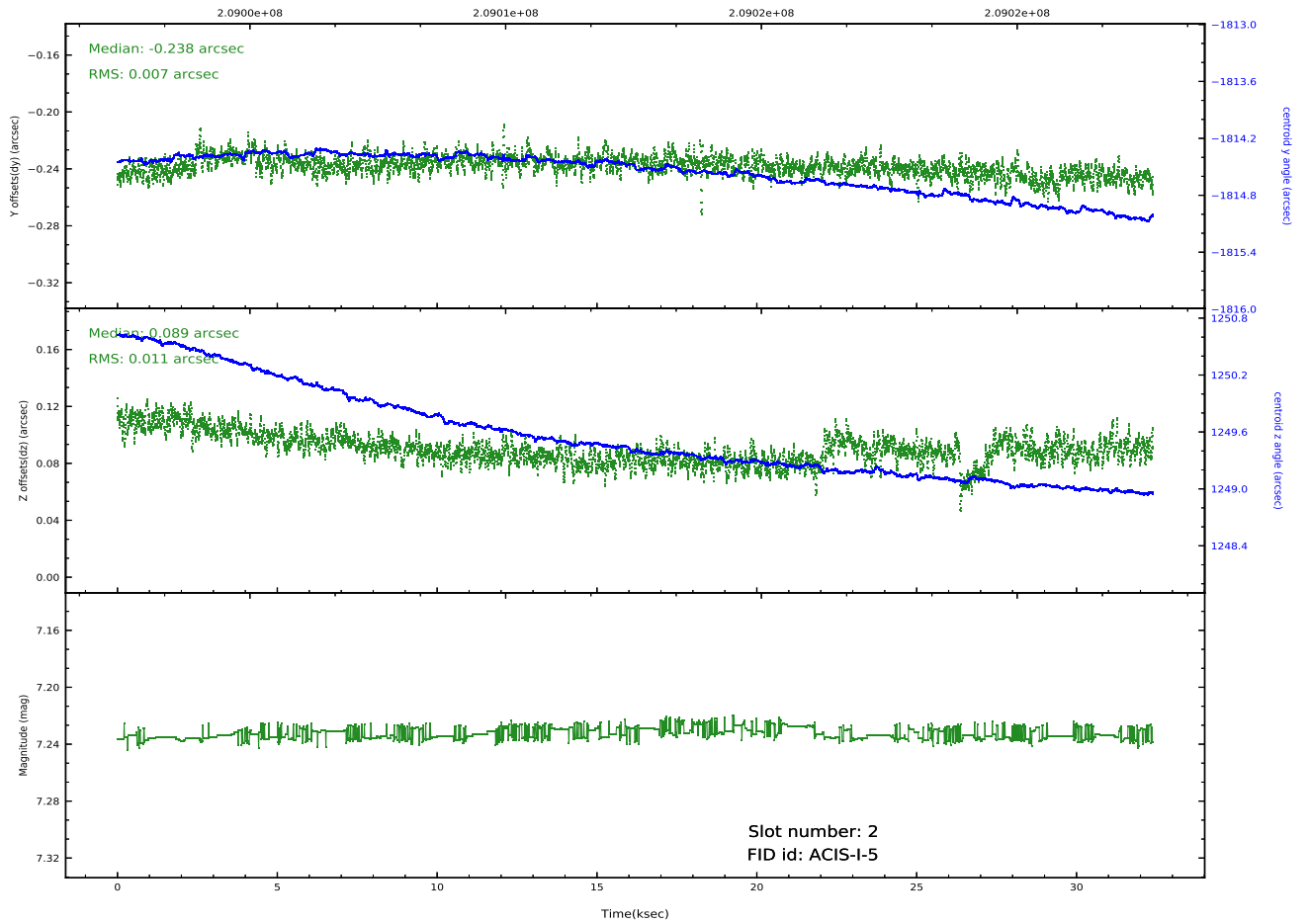
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.379

A.2 Comments