

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5767 - L2 Version 4
Chandra X-Ray Center

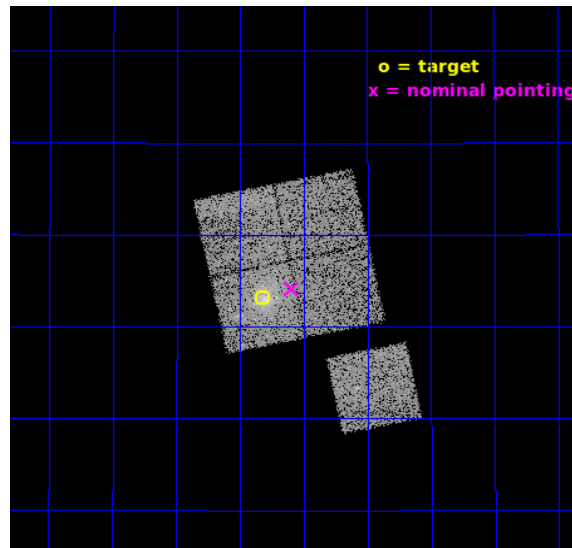
L2 Processing Date : Oct 7 2020

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1 Front

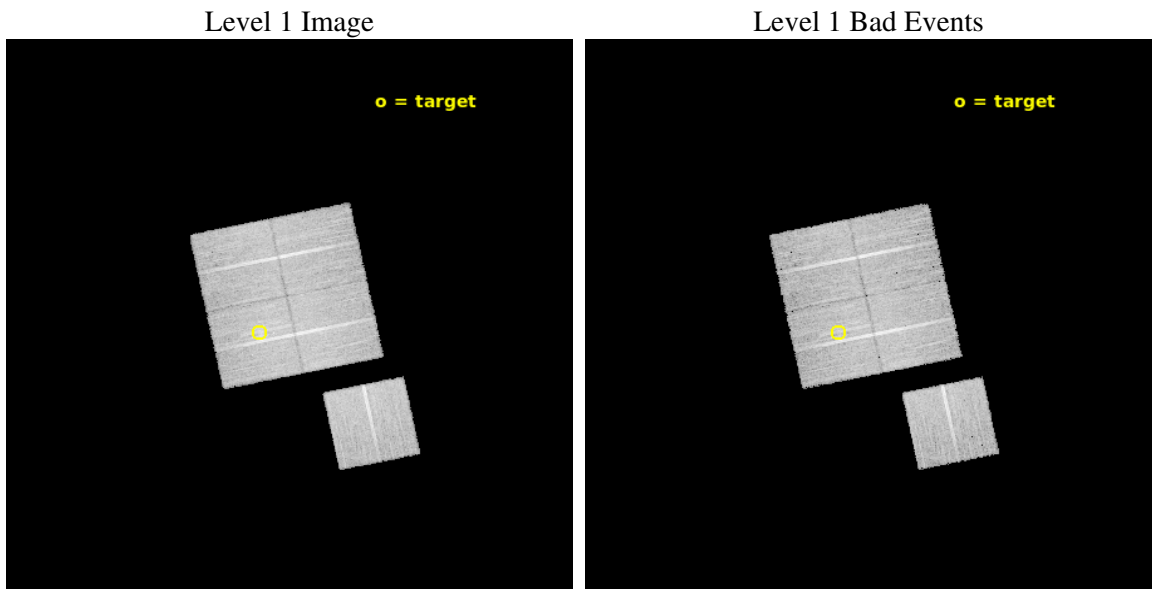
seq_num	800480	Sequence number
obs_id	5767	Observation id
title	DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg ² ROSAT PSPC SURVEY	Proposal titl
observer	Dr Alexey Vikhlinin	Principal investigator
object	CIG J1212+2733	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.08	Observer's specified target RA [deg]
dec_targ	27.553611	Observer's specified target Dec [deg]
ra_nom	183.02327592796	Nominal RA [deg]
dec_nom	27.569147889803	Nominal Dec [deg]
roll_nom	168.08984706311	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14774.41464299	Sum of GTIs [s]
livetime	14581.376038913	Livetime [s]
ontime0	14774.291503042	Sum of GTIs [s]
ontime1	14774.332543045	Sum of GTIs [s]
ontime2	14774.373602986	Sum of GTIs [s]
ontime3	14774.41464299	Sum of GTIs [s]
ontime6	14774.250463039	Sum of GTIs [s]
l2events	42473	Number of level 2 events



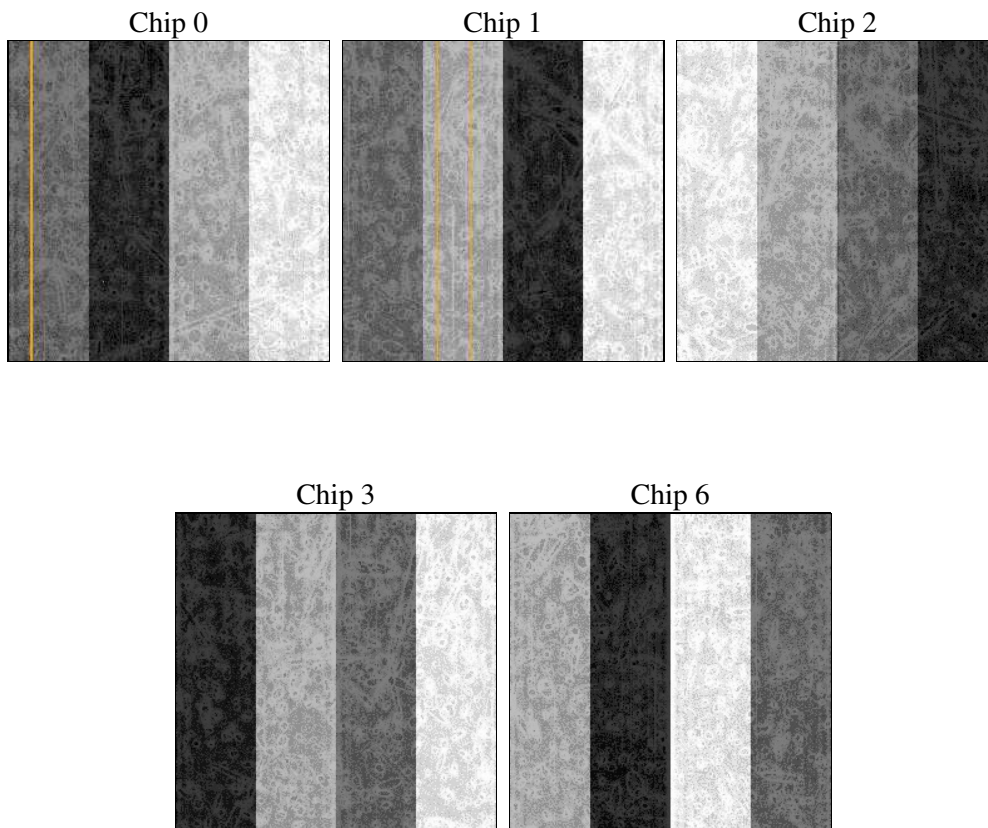
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14774.41464299	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	14774.291503042	Sum of GTIs [s]
date	2020-10-07T10:42:53	Date and time of file creation	ontime1	14774.332543045	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14774.373602986	Sum of GTIs [s]
			ontime3	14774.41464299	Sum of GTIs [s]
			ontime6	14774.250463039	Sum of GTIs [s]
			l1events	459286	Number of level 1 events

2.1.4 Events

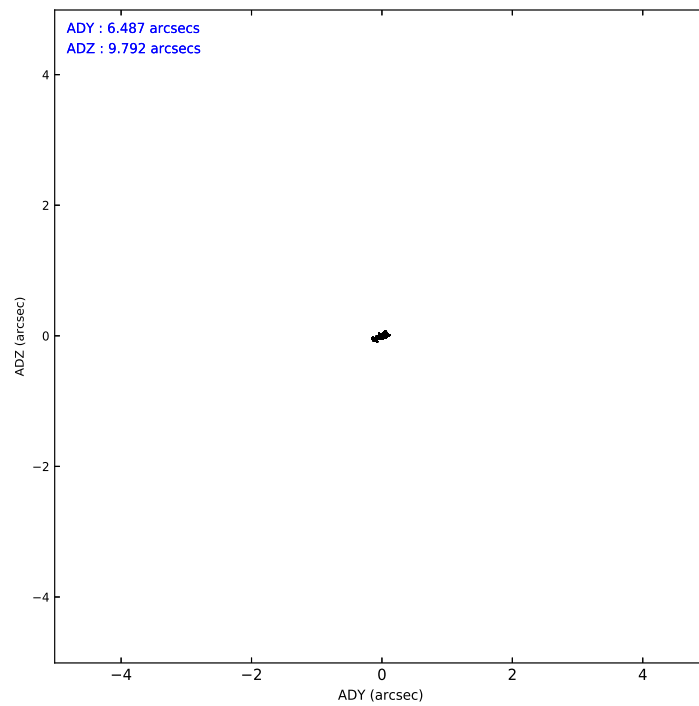
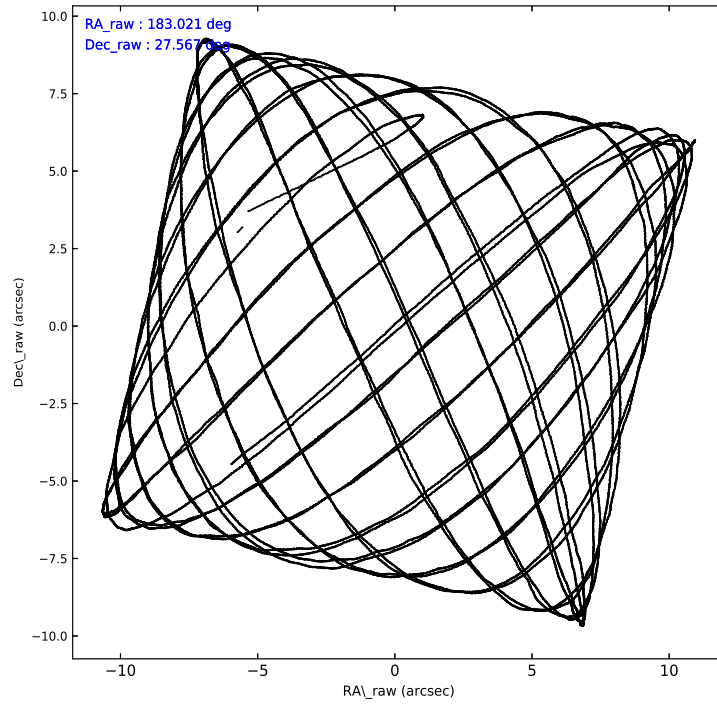
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	85657	87186	97104	95861	93478
rejected events	76382	76807	88048	83255	83966
rejected %	89%	88%	90%	86%	89%

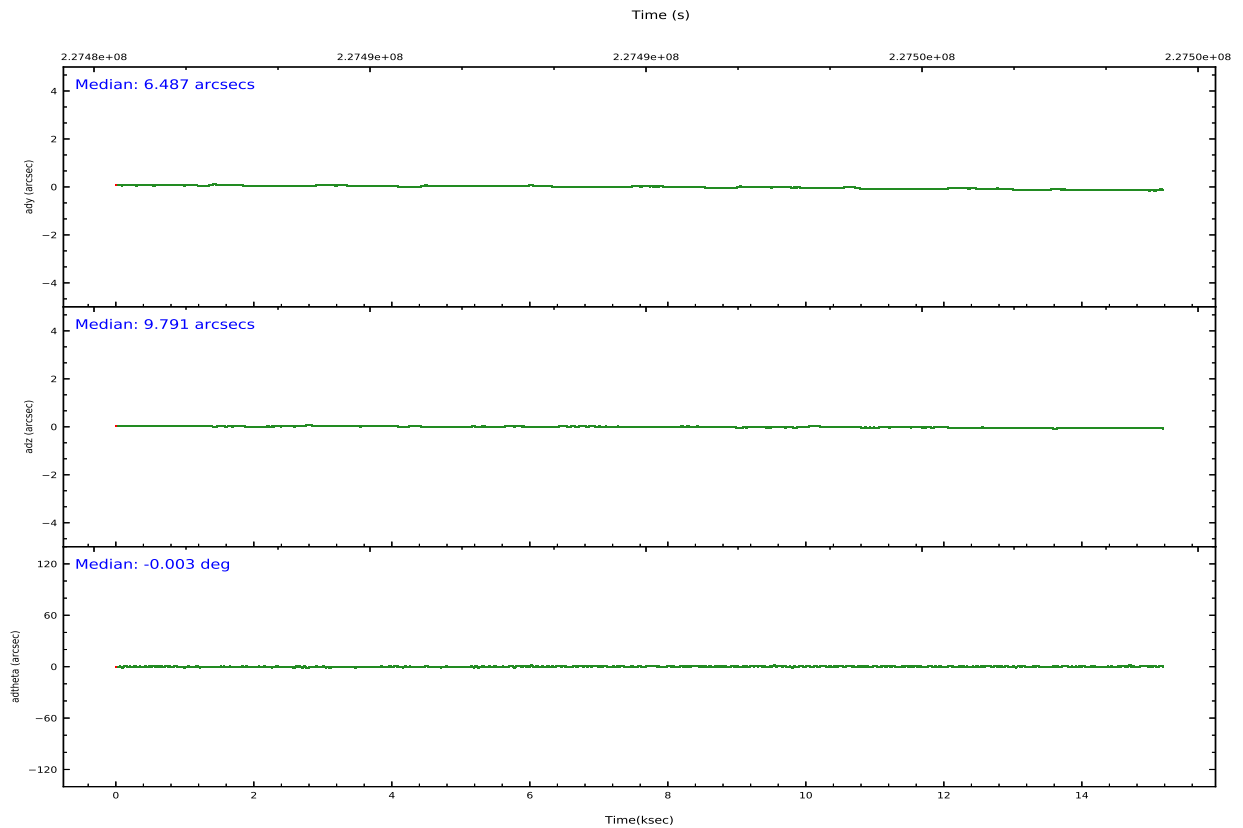
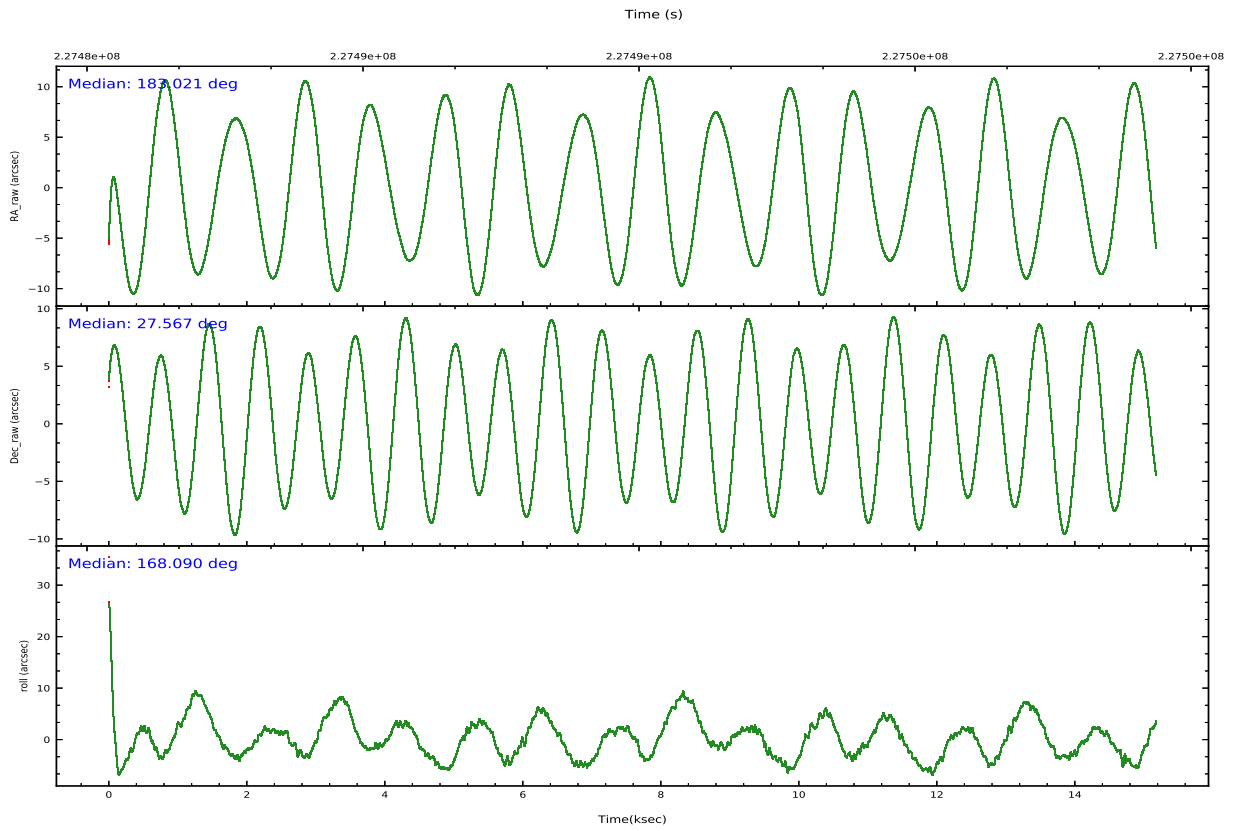
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3154	3710	3251	6285	3387
	3%	4%	3%	6%	3%
grade 1 events	53	44	61	74	48
	0%	0%	0%	0%	0%
grade 2 events	2248	2268	2120	2281	1939
	2%	2%	2%	2%	2%
grade 3 events	1029	1156	1019	1061	1148
	1%	1%	1%	1%	1%
grade 4 events	1040	1183	1040	1136	1033
	1%	1%	1%	1%	1%
grade 5 events	3186	3494	3038	3627	3567
	3%	4%	3%	3%	3%
grade 6 events	1807	2064	1627	1843	2007
	2%	2%	1%	1%	2%
grade 7 events	73140	73267	84948	79554	80349
	85%	84%	87%	82%	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	183.049893	183.02327592796	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.575367	27.569147889803	Alternating exposures requested	N	N
[deg] Pointing Roll	167.874379	168.08984706311	[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	-225.840463	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	227484494.184000	227483145.53351			
Observation start date	2005-03-17T22:07:10	2005-03-17T21:45:45			
[s] Observation end time (MET)	227499494.184000	227500440.8718			
Observation end date	2005-03-18T02:17:10	2005-03-18T02:34:00			
Read mode	TIMED	TIMED			

2.3 Aspect





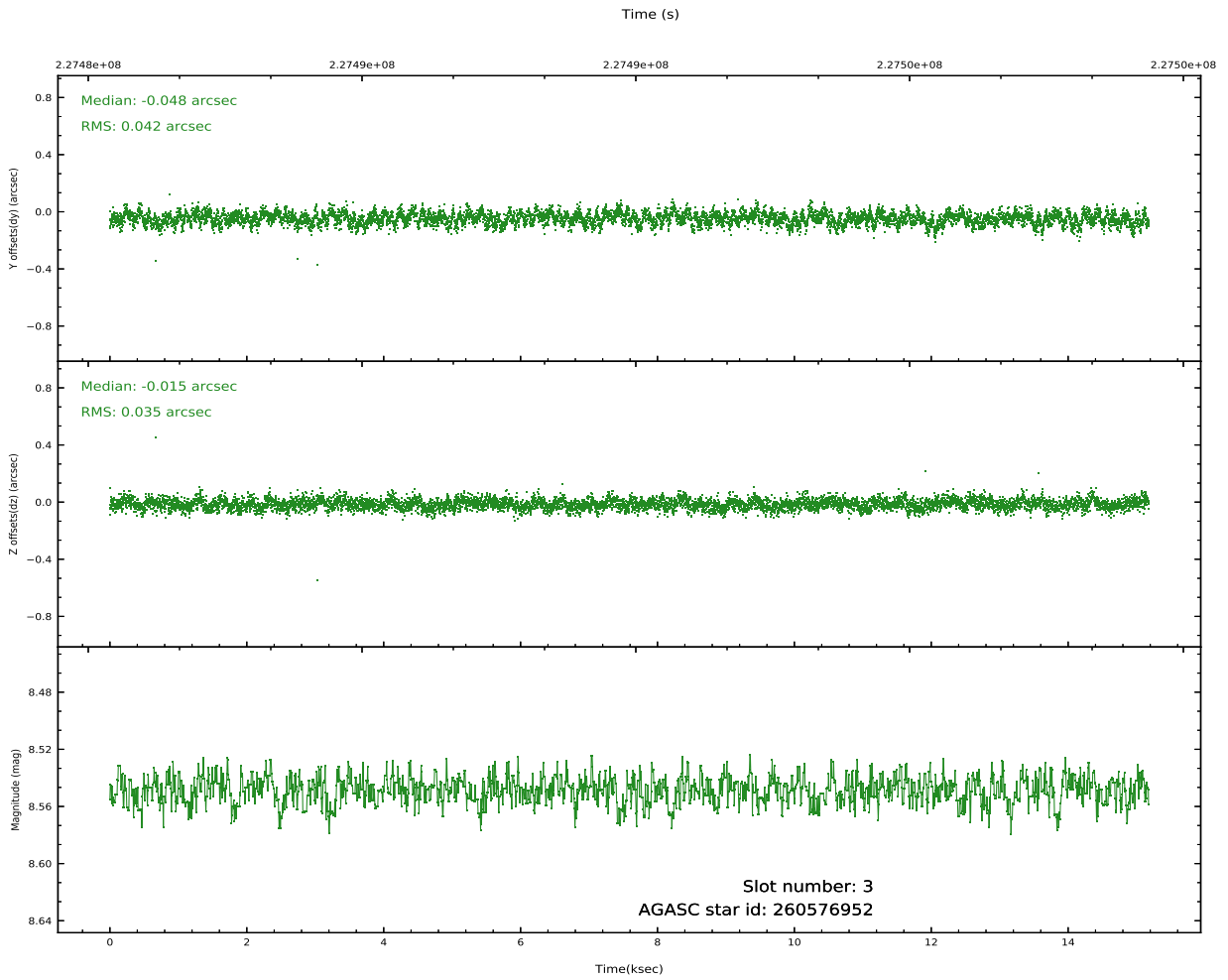
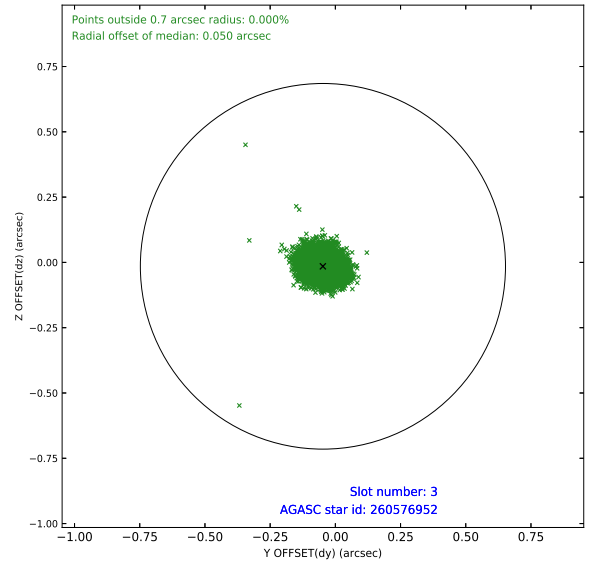
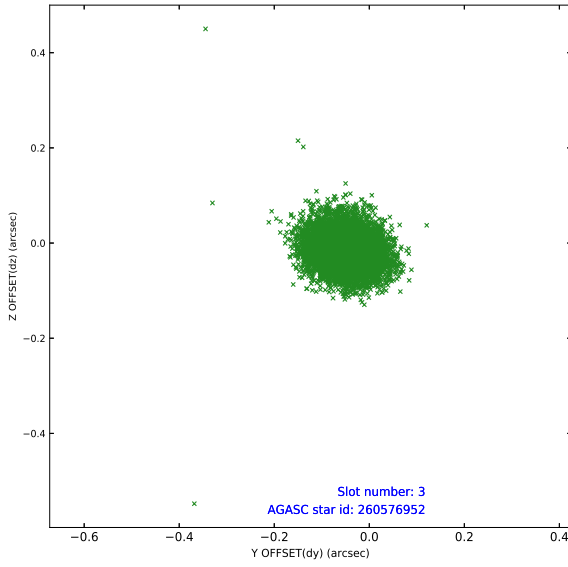
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3703	1.000	0.102	-0.111	0.007	0.013	0.000000	0.000000	933.19	-992
1	FID		ACIS-I-5	7.22	3702	1.000	-0.266	0.076	0.008	0.014	0.000000	0.000000	-1815.14	905
2	FID		ACIS-I-6	7.25	3703	1.000	0.073	0.106	0.008	0.013	0.000000	0.000000	398.36	1549
3	GUIDE	used	260576952	8.55	7399	1.000	-0.048	-0.015	0.056	0.093	183.404142	27.131507	-1445.05	1322
4	GUIDE	used	260577416	8.28	7403	1.000	0.034	-0.036	0.068	0.110	183.103729	27.380091	-316.03	651
5	GUIDE	used	260578328	9.90	7394	1.000	0.007	0.069	0.123	0.201	183.377446	27.043485	-1428.67	1650
6	GUIDE	used	260580128	8.53	7405	1.000	0.010	0.019	0.081	0.133	182.584429	28.318514	2005.18	-2307
7	GUIDE	used	260583352	6.40	7404	1.000	-0.002	-0.042	0.082	0.131	182.692069	27.281504	897.69	1273

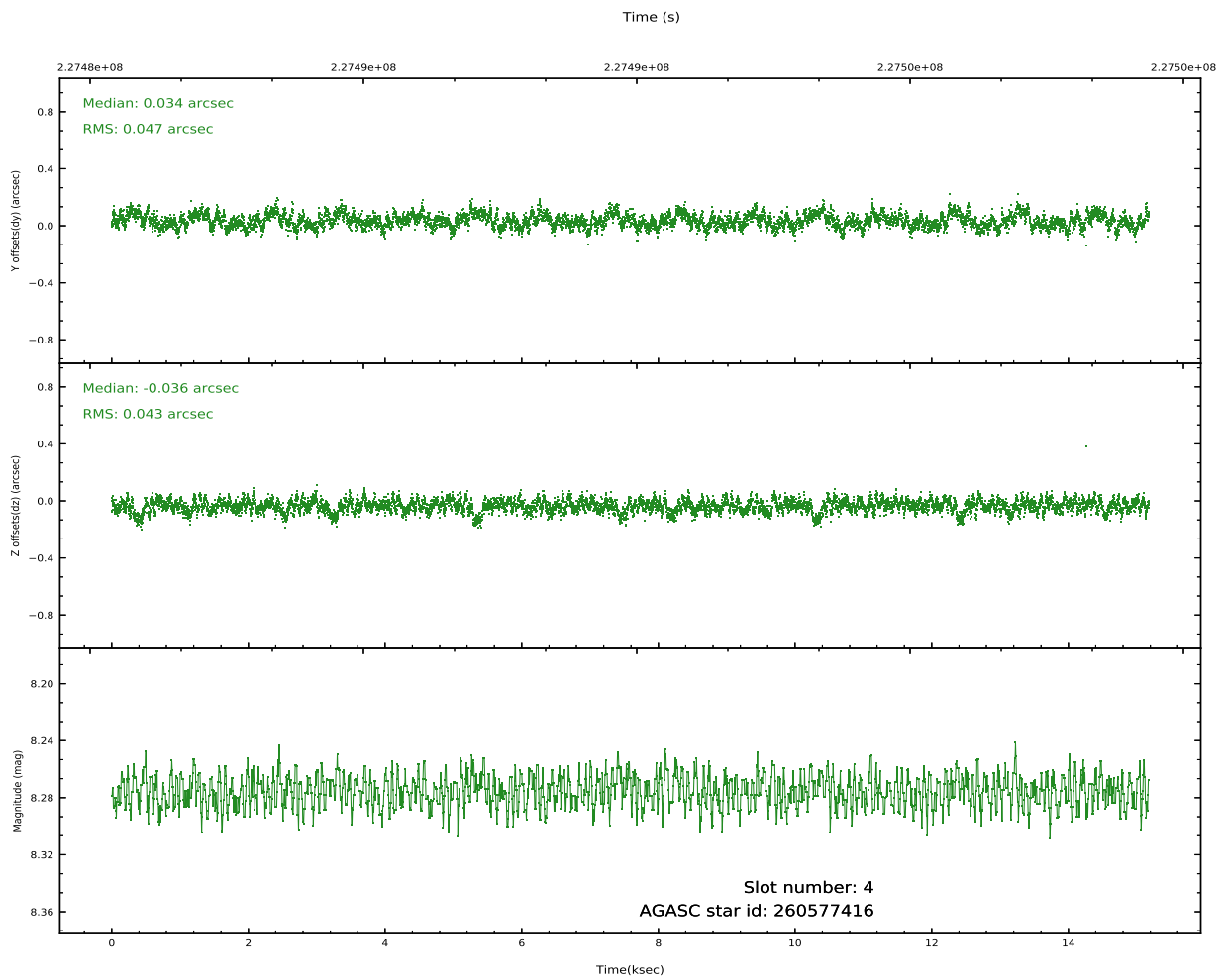
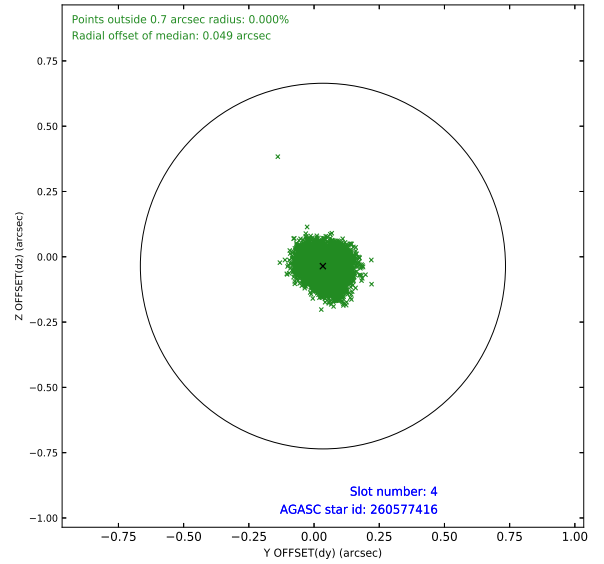
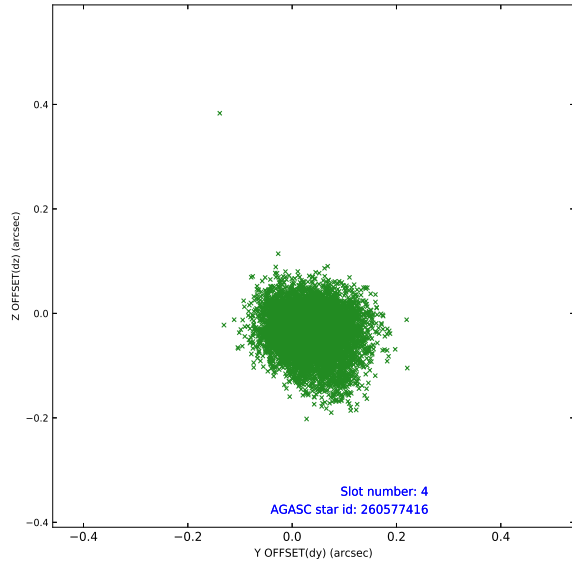
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2.4 Star Slots

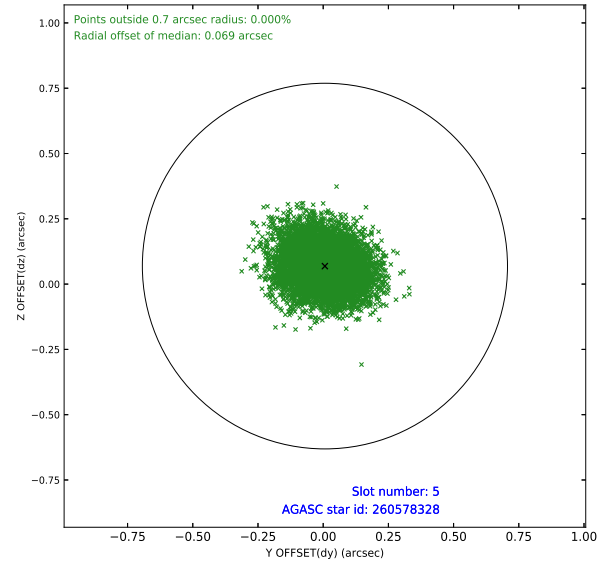
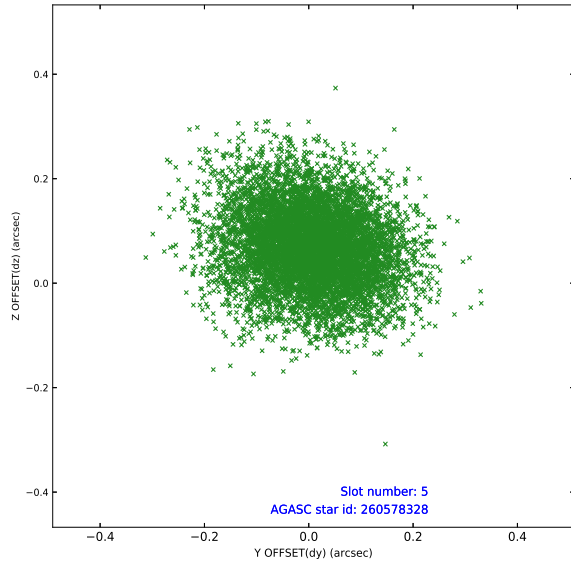
2.4.1 Slot 3



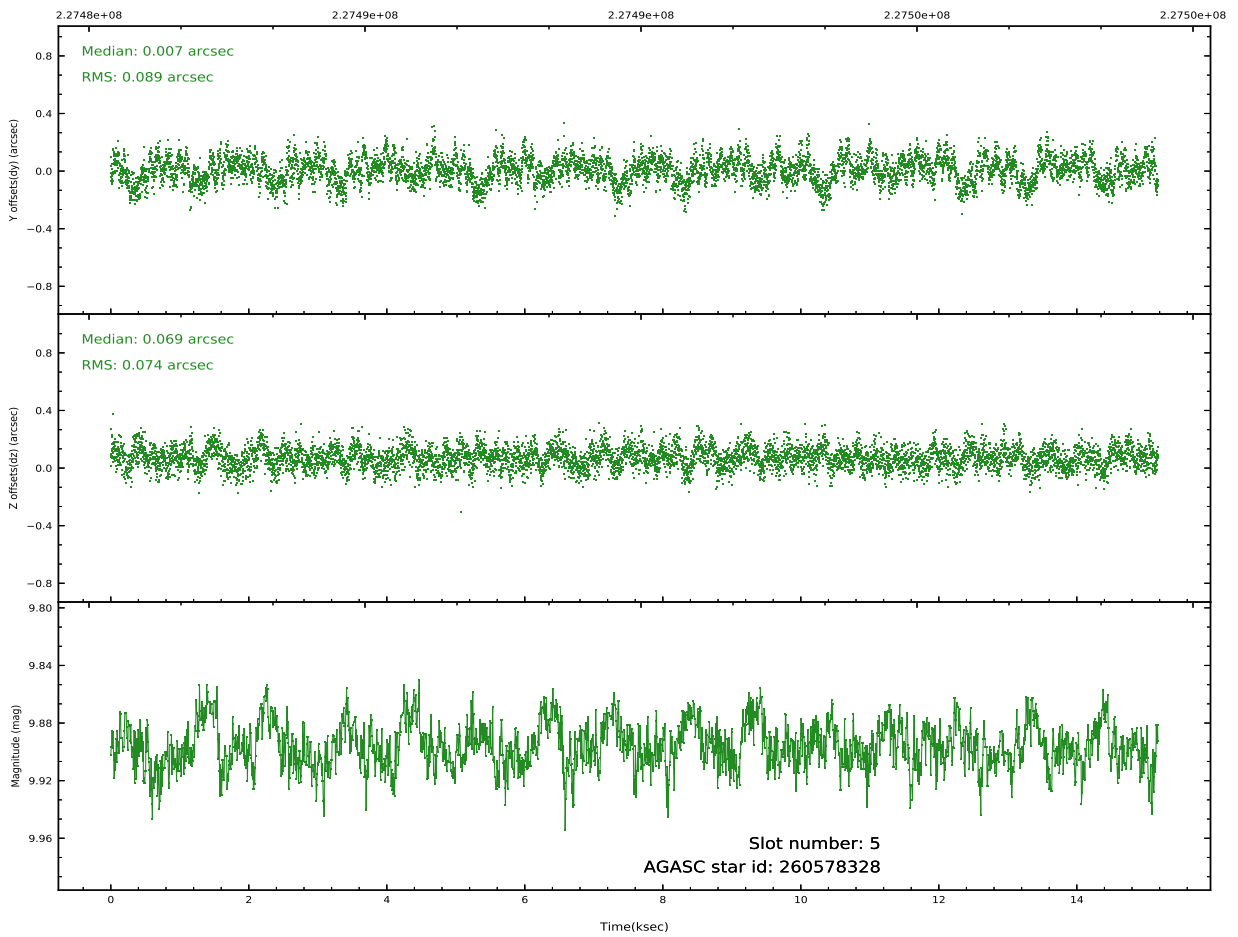
2.4.2 Slot 4



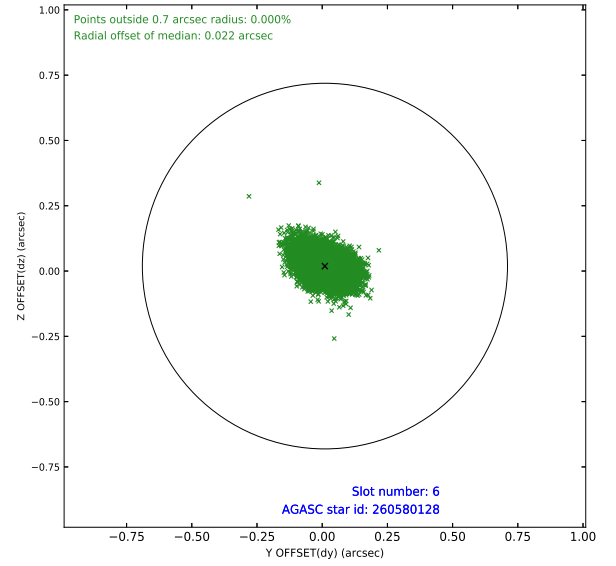
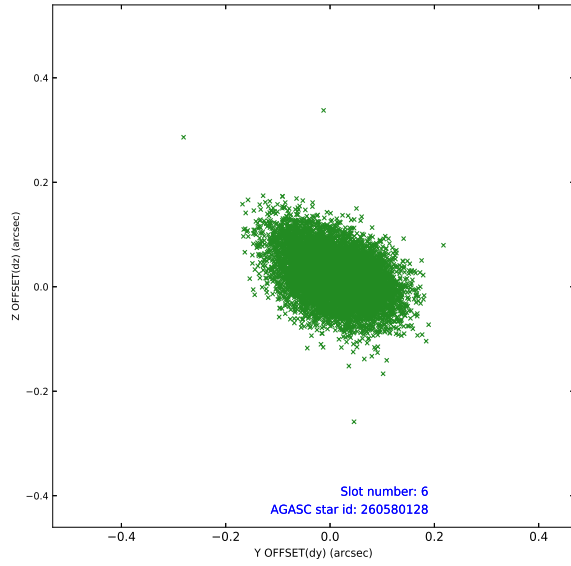
2.4.3 Slot 5



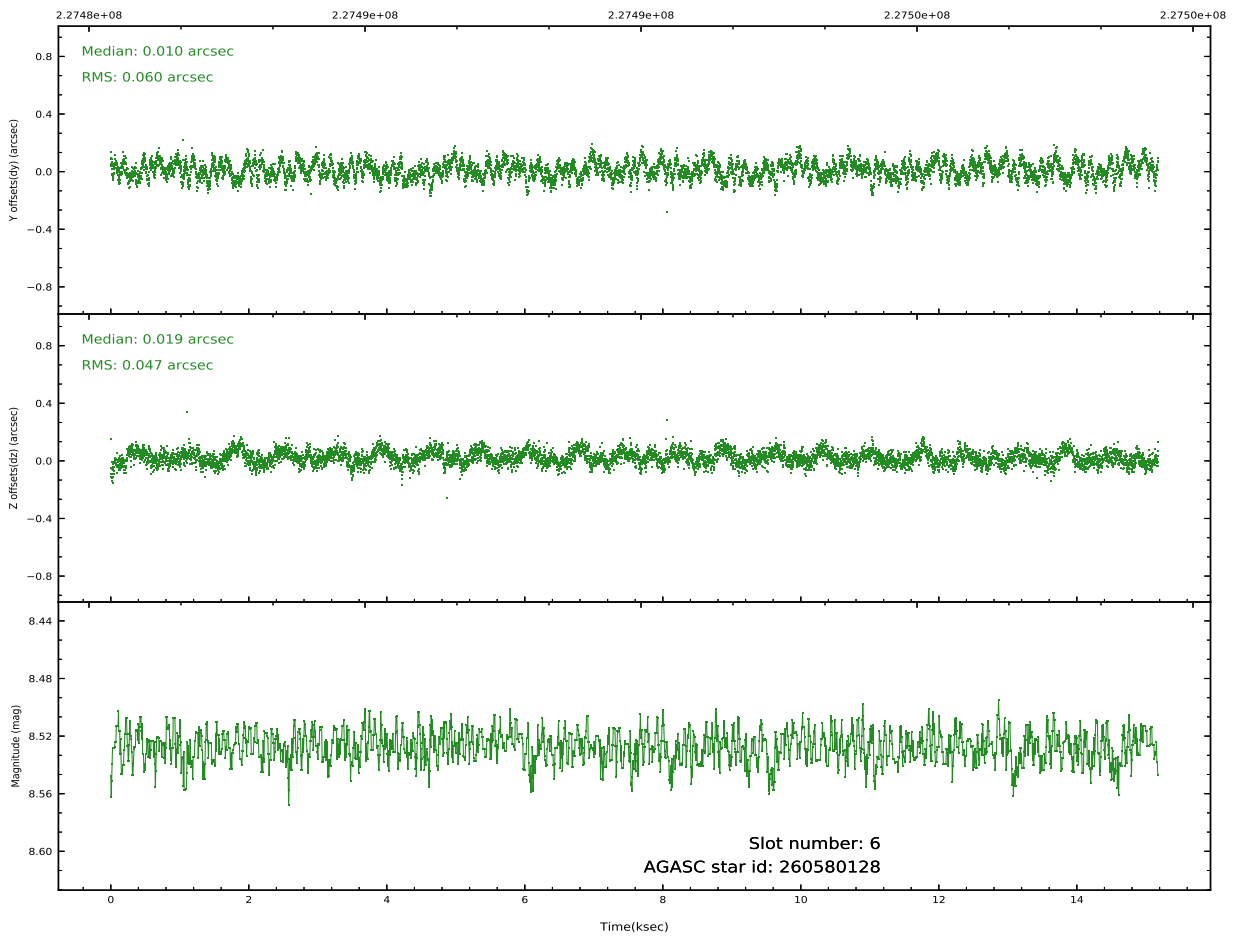
Time (s)



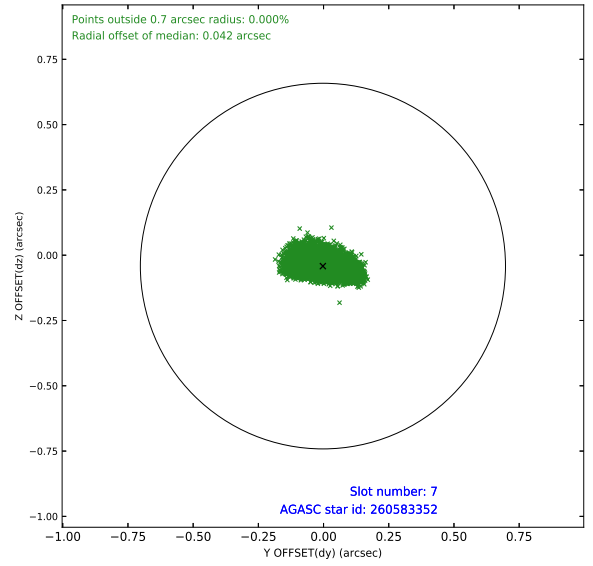
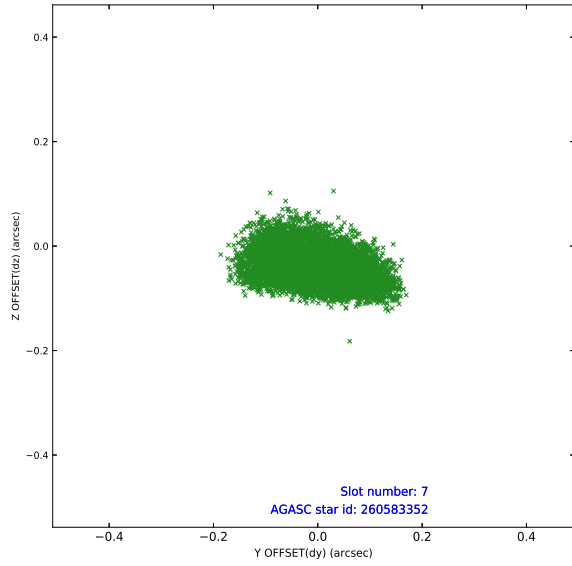
2.4.4 Slot 6



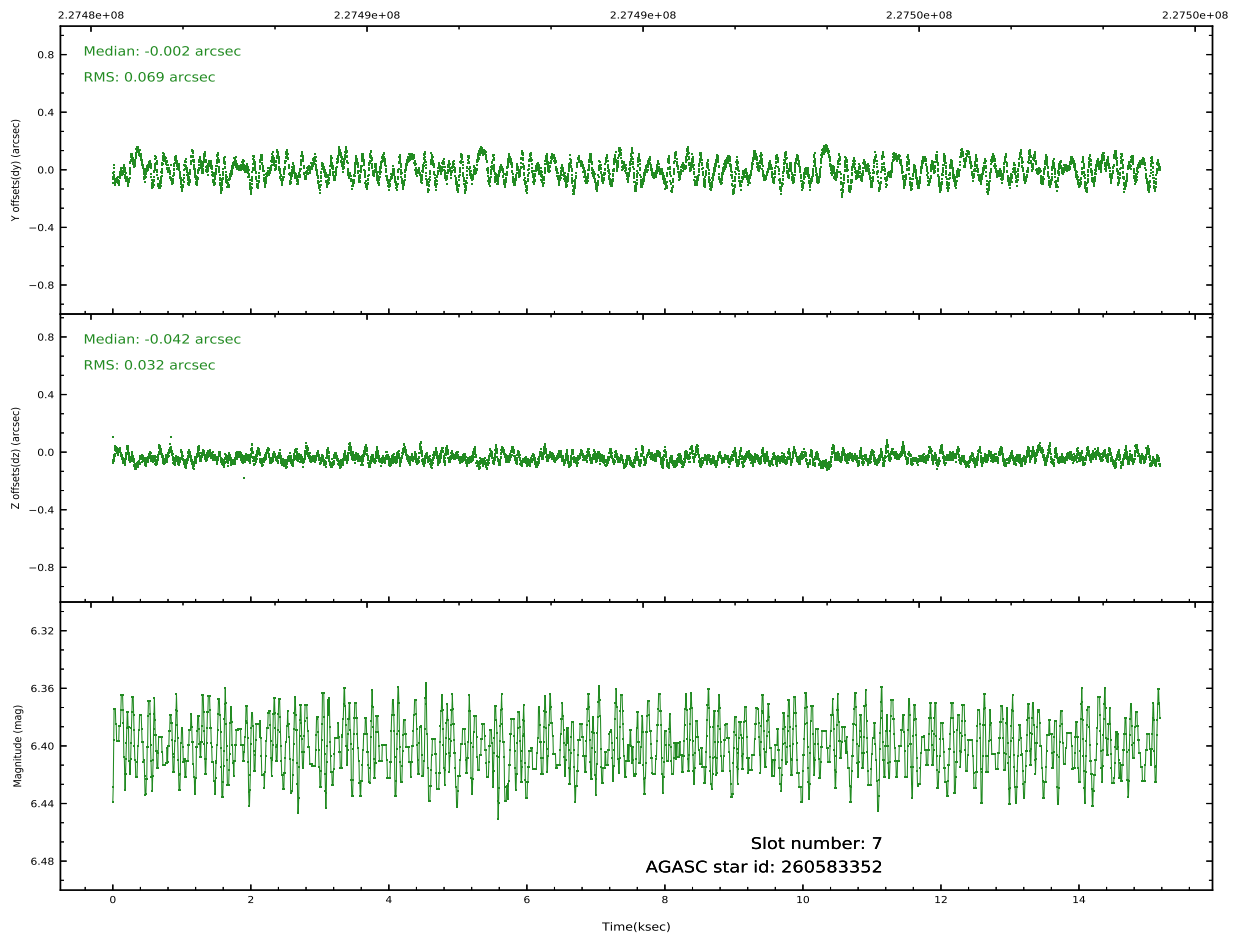
Time (s)



2.4.5 Slot 7

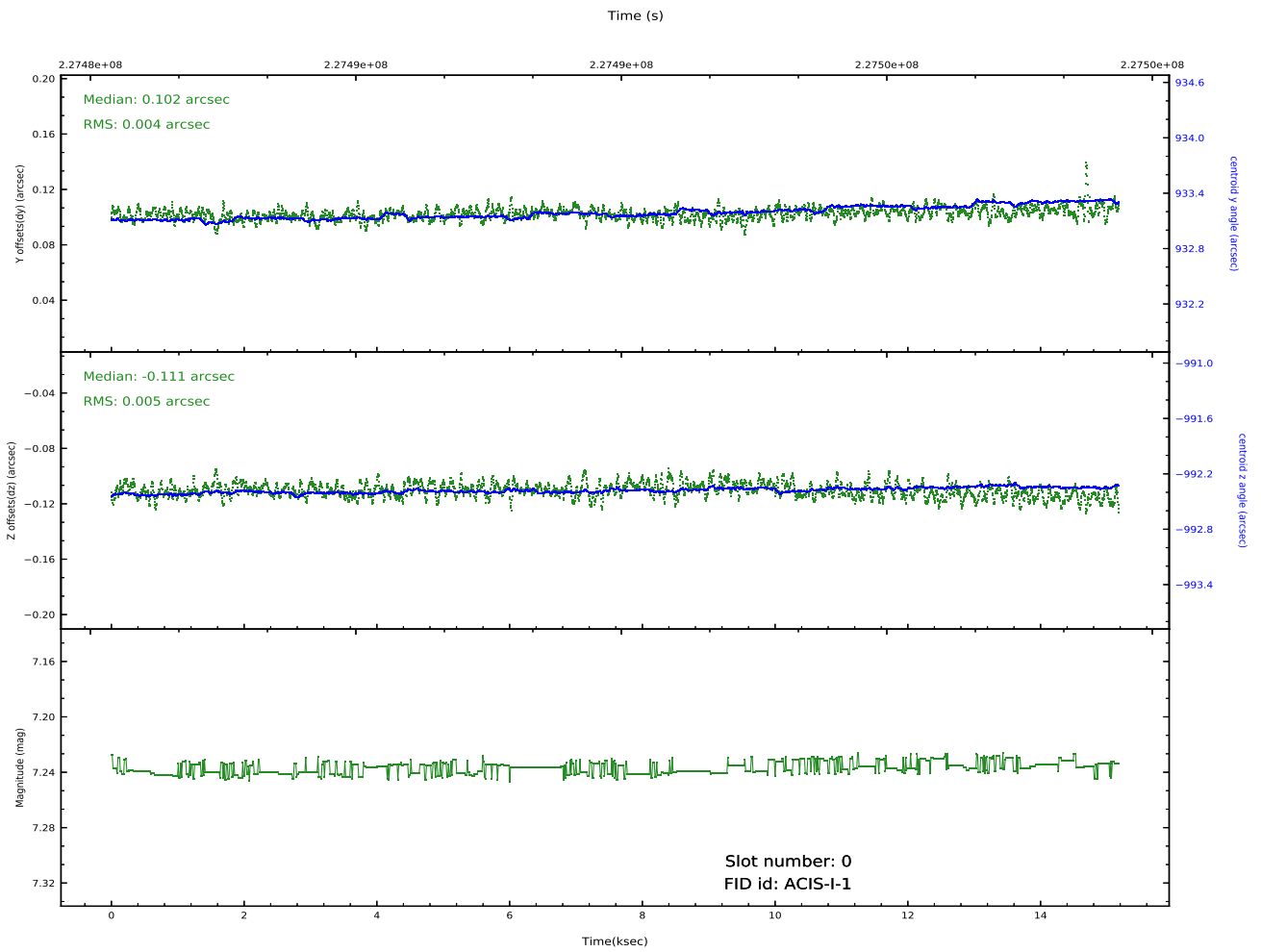
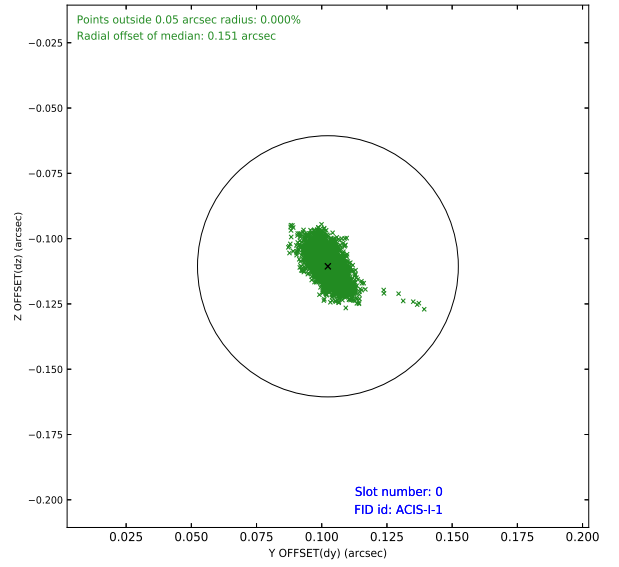
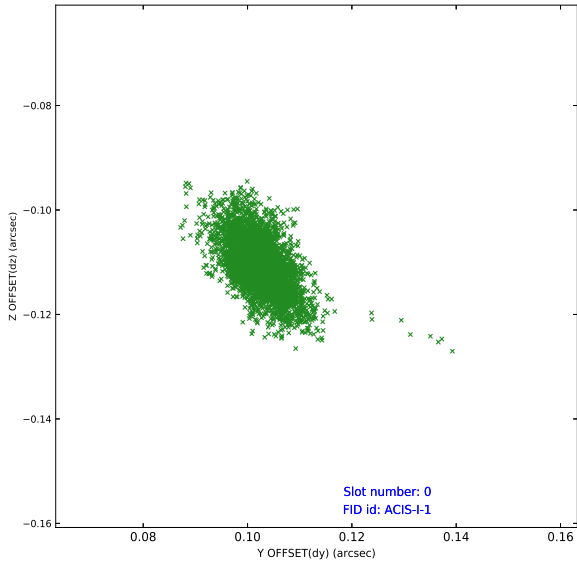


Time (s)

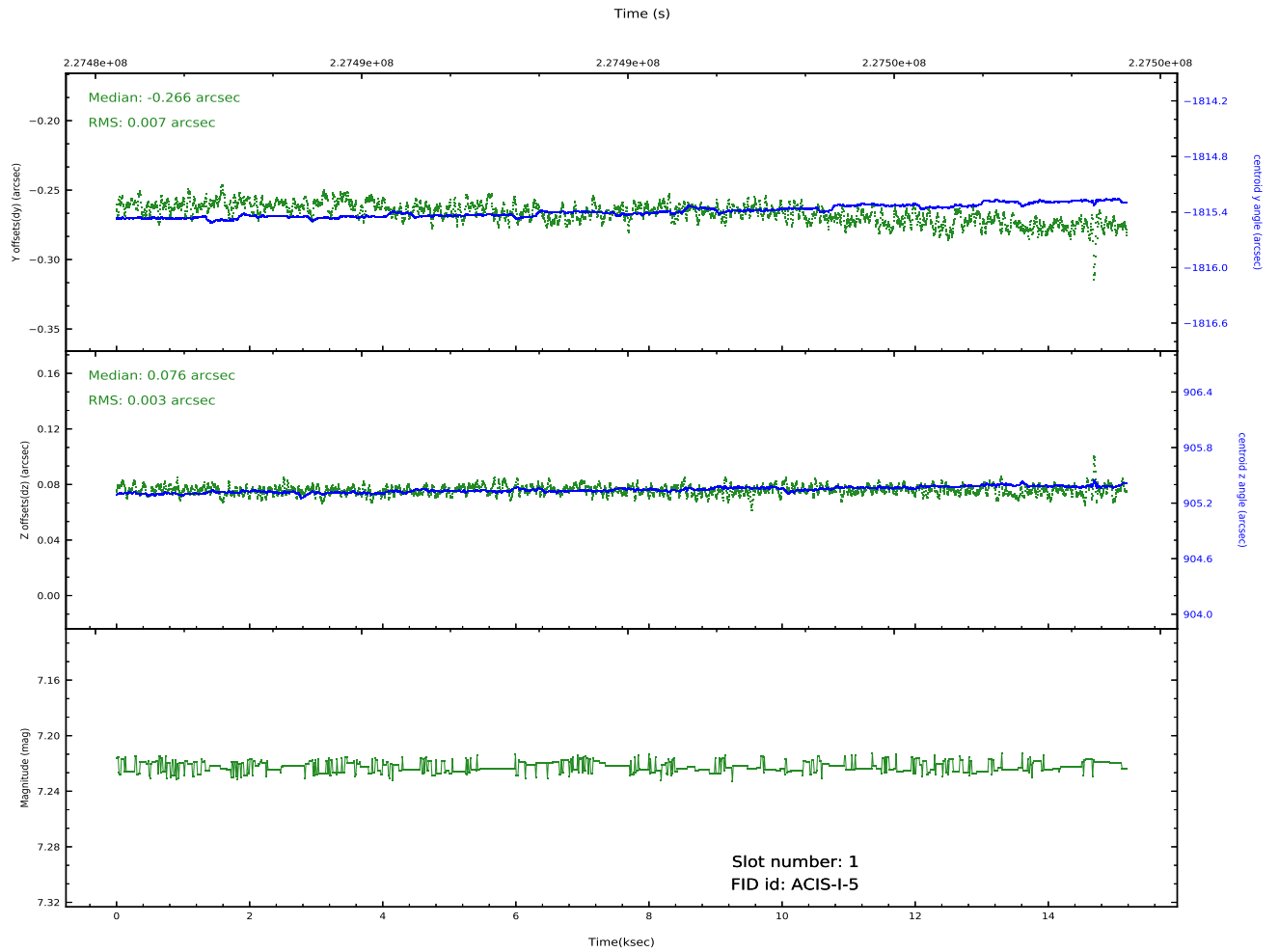
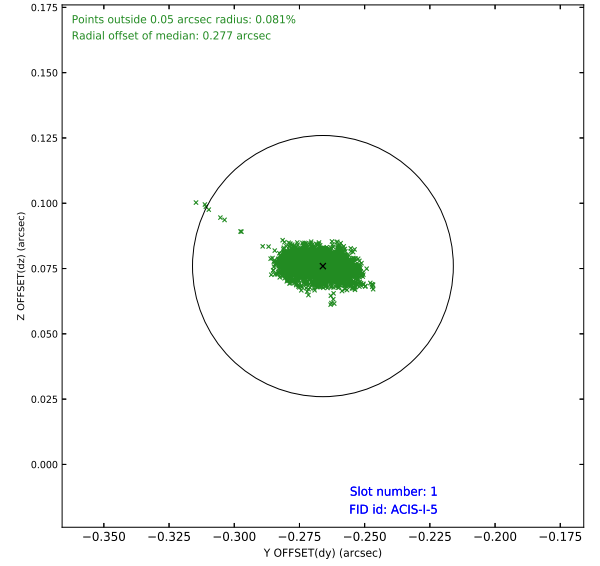
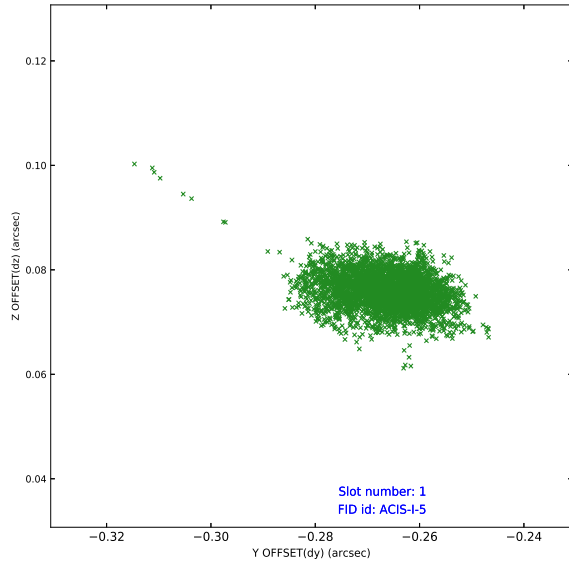


2.5 FID Slots

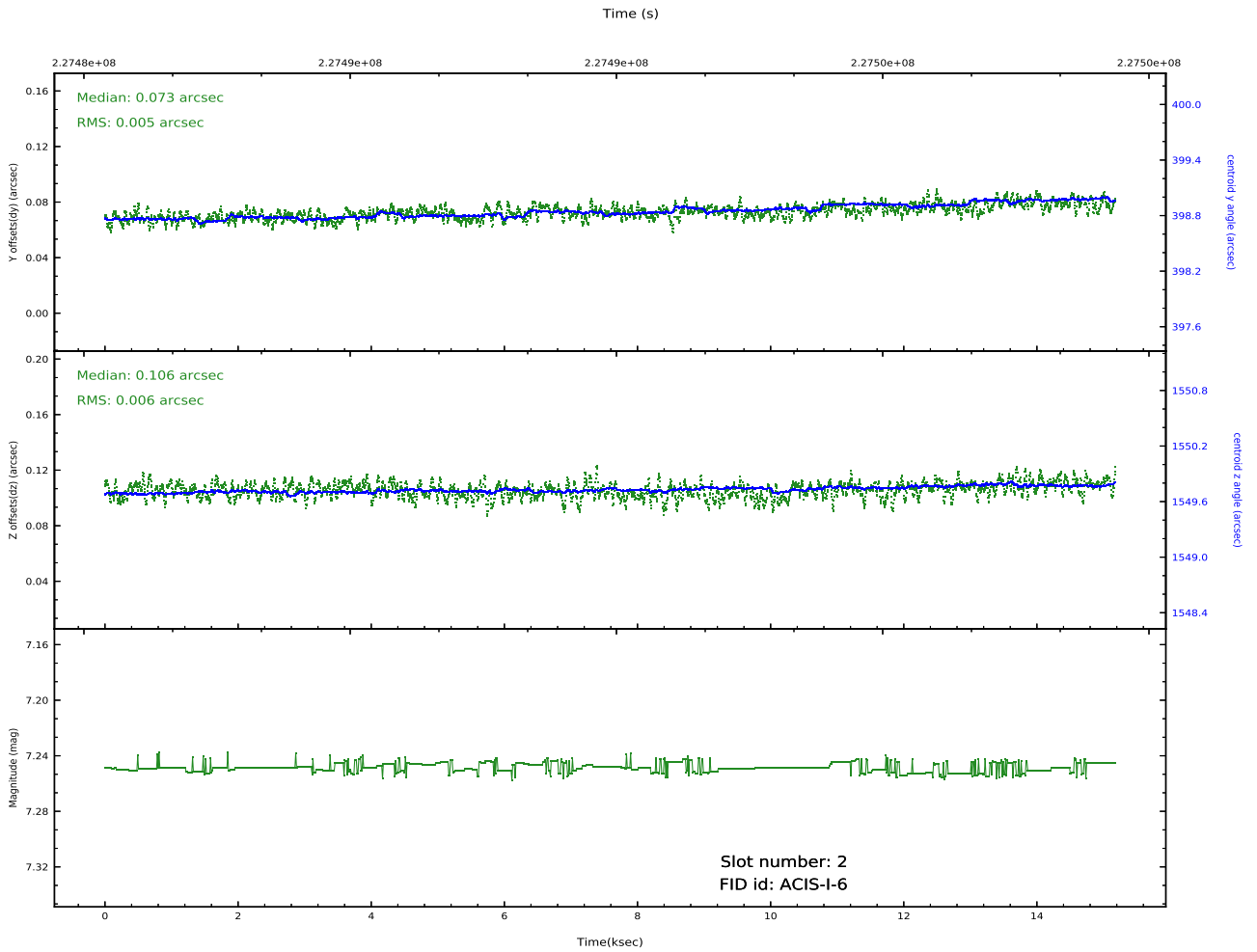
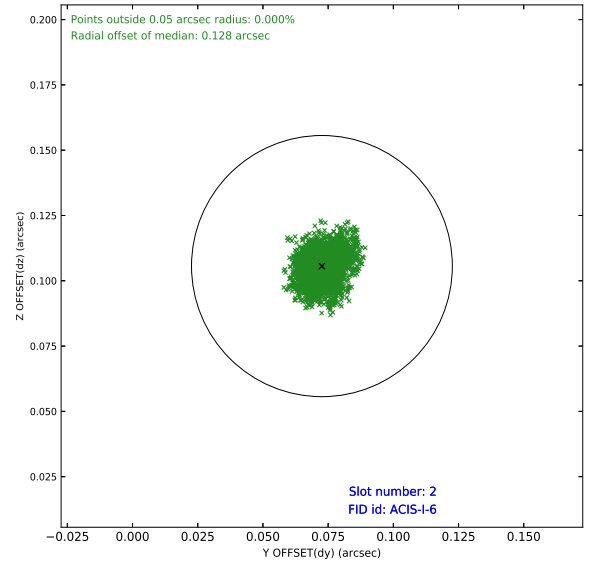
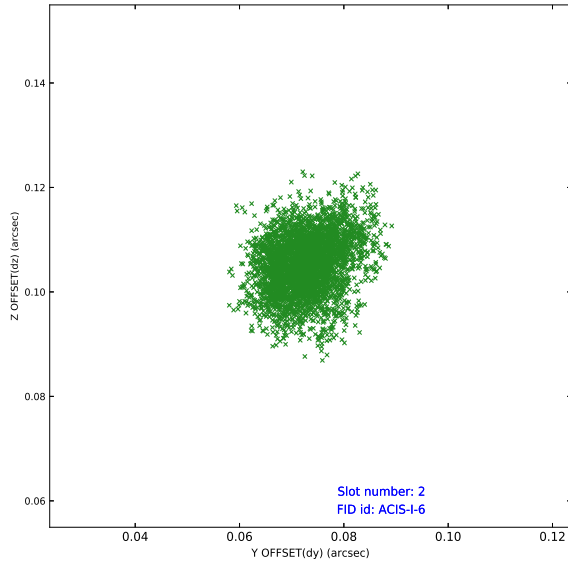
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.77459

A.2 Comments