

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5470 - L2 Version 4
Chandra X-Ray Center

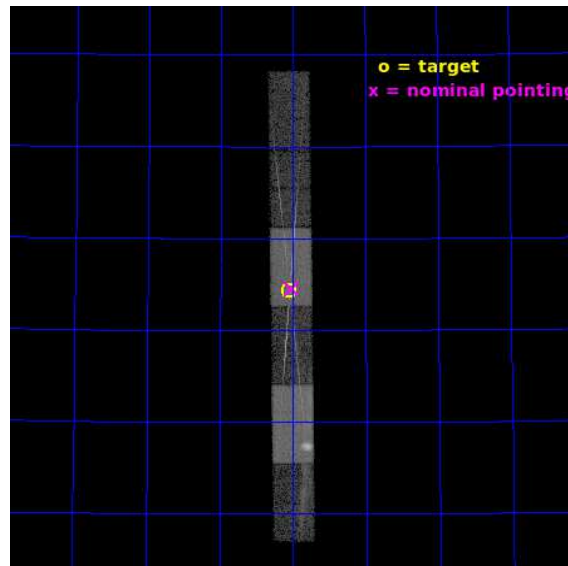
L2 Processing Date : Oct 5 2020

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1 Front

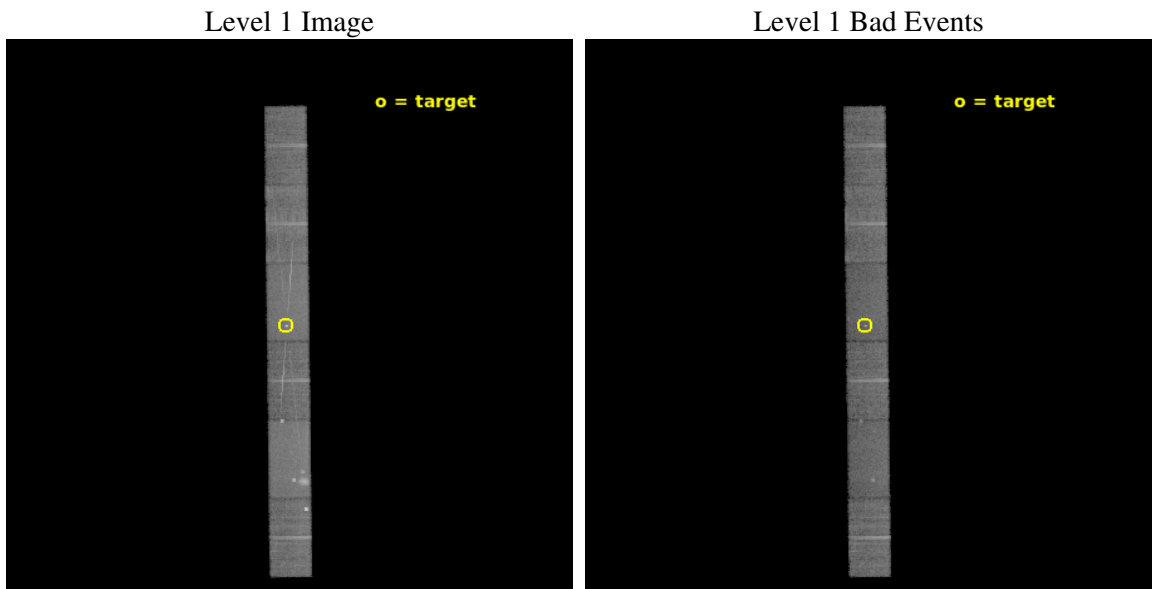
seq_num	400400	Sequence number
obs_id	5470	Observation id
title	INVESTIGATING NEW INTEGRAL SOURCES WITH CHANDRA	Proposal title
observer	Adamantia Paizis	Principal investigator
object	IGR J00291+5934	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.26275	Observer's specified target RA [deg]
dec_targ	59.571944	Observer's specified target Dec [deg]
ra_nom	7.2537628084299	Nominal RA [deg]
dec_nom	59.575596368603	Nominal Dec [deg]
roll_nom	269.34146290334	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18070.999873281	Sum of GTIs [s]
livetime	17645.028135239	Livetime [s]
ontime4	18070.999873281	Sum of GTIs [s]
ontime5	18070.999873281	Sum of GTIs [s]
ontime6	18070.989845783	Sum of GTIs [s]
ontime7	18070.999873281	Sum of GTIs [s]
ontime8	18070.948805779	Sum of GTIs [s]
ontime9	18070.907765806	Sum of GTIs [s]
l2events	141575	Number of level 2 events



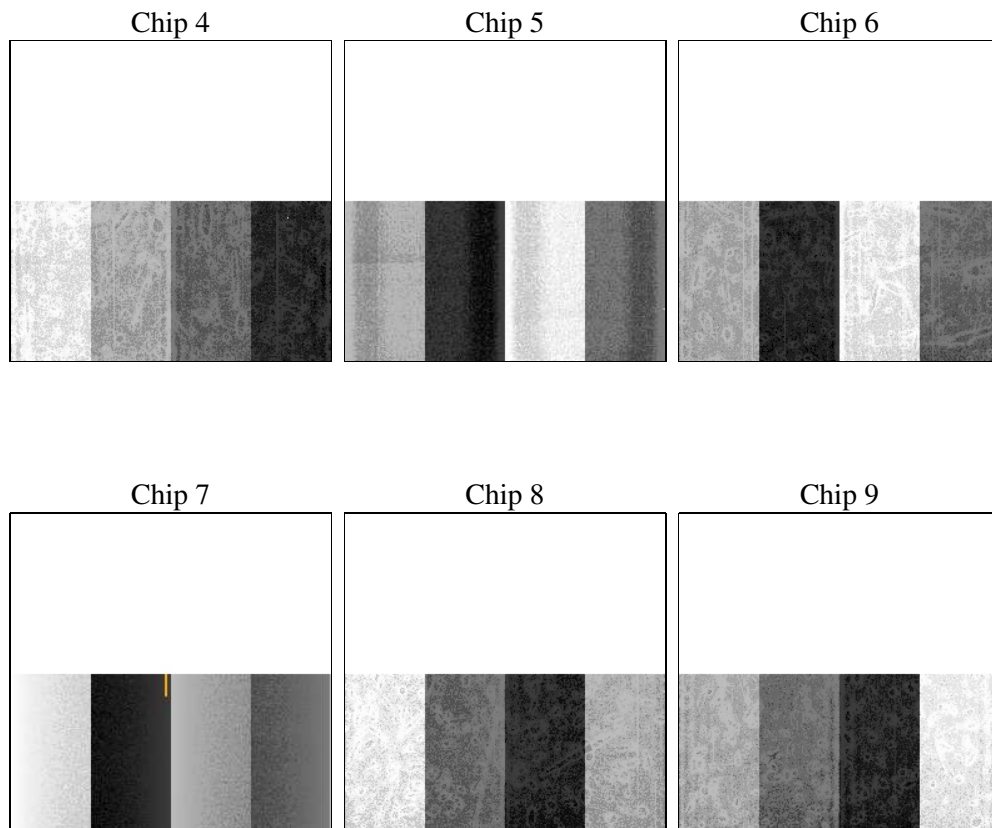
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18070.999873281	Sum of GTIs [s]
caldsver	4.9.2	 	ontime4	18070.999873281	Sum of GTIs [s]
date	2020-10-05T12:56:55	Date and time of file creation	ontime5	18070.999873281	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	18070.989845783	Sum of GTIs [s]
			ontime7	18070.999873281	Sum of GTIs [s]
			ontime8	18070.948805779	Sum of GTIs [s]
			ontime9	18070.907765806	Sum of GTIs [s]
			l1events	547904	Number of level 1 events
			tgmetho	TGDETECT	Method used to create src1a file
			ra_pos	(4062.46, 4060.77)	Grade 0 sky pixel position

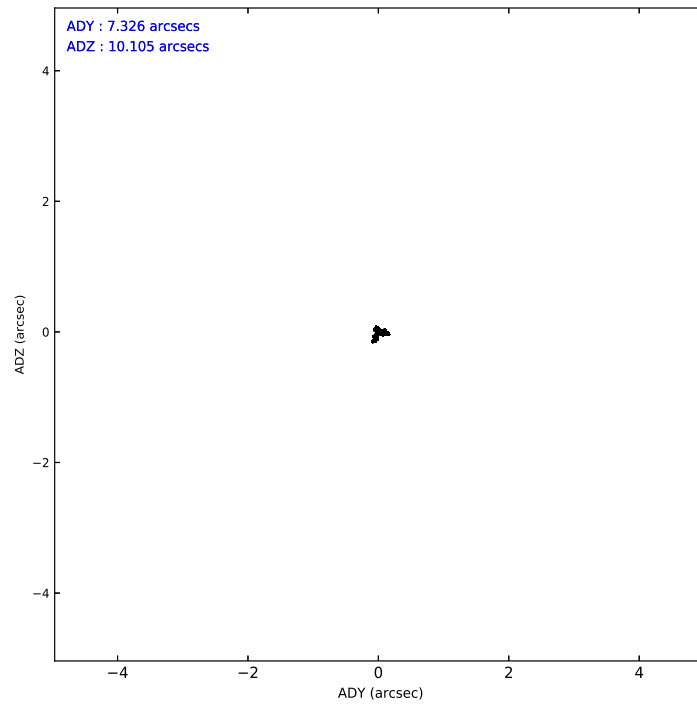
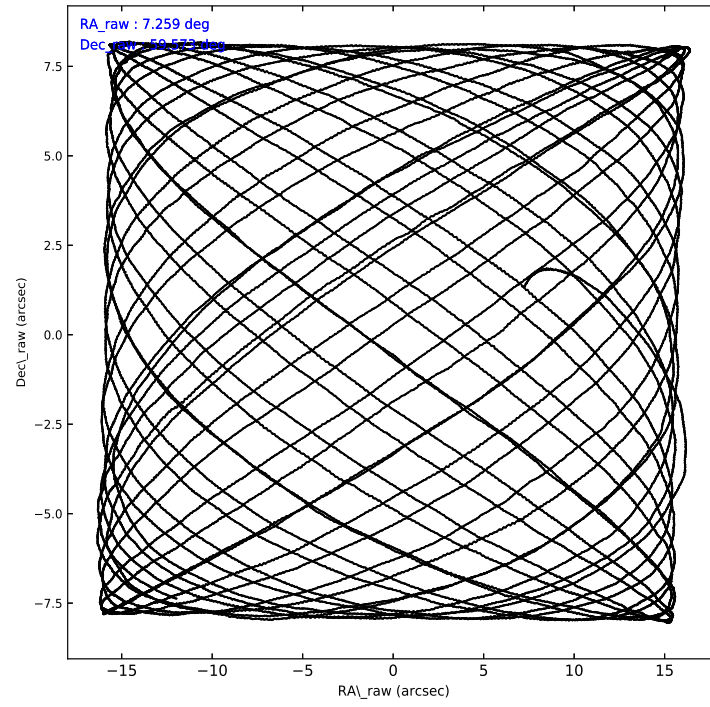
2.1.4 Events

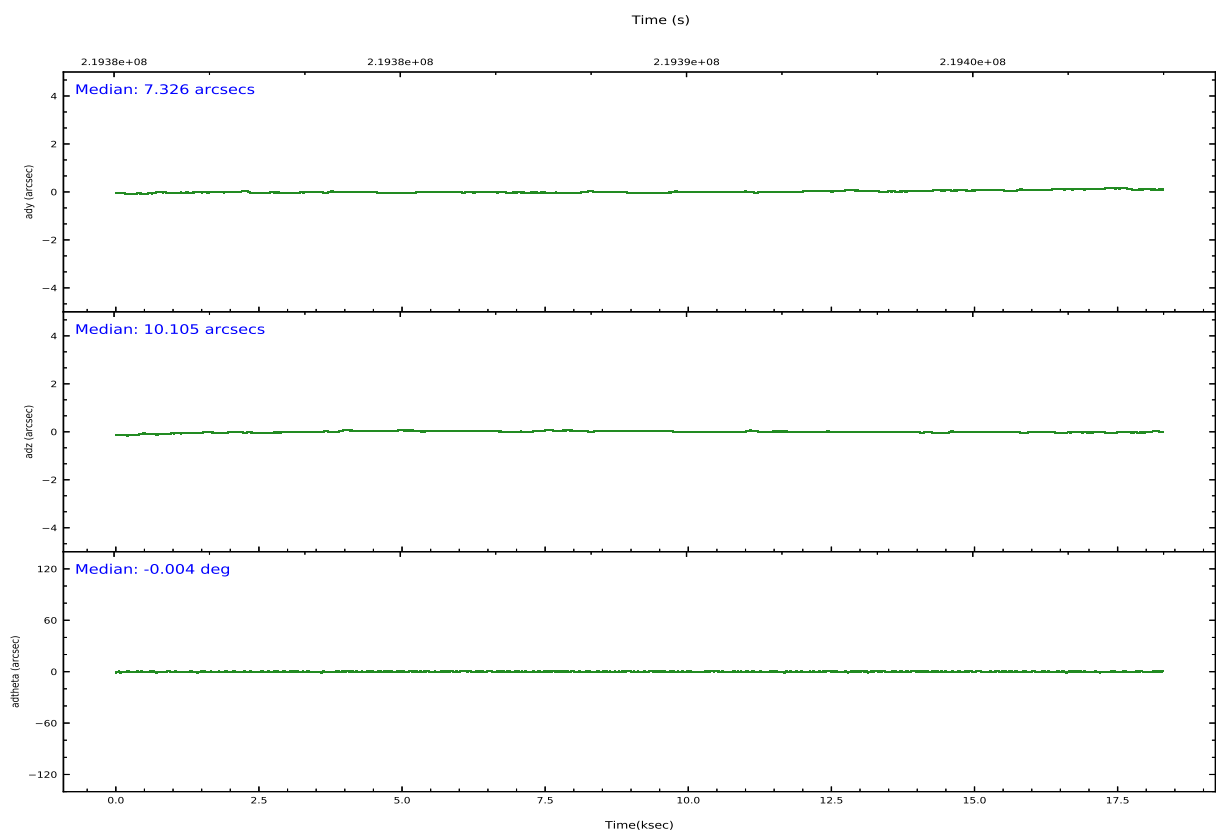
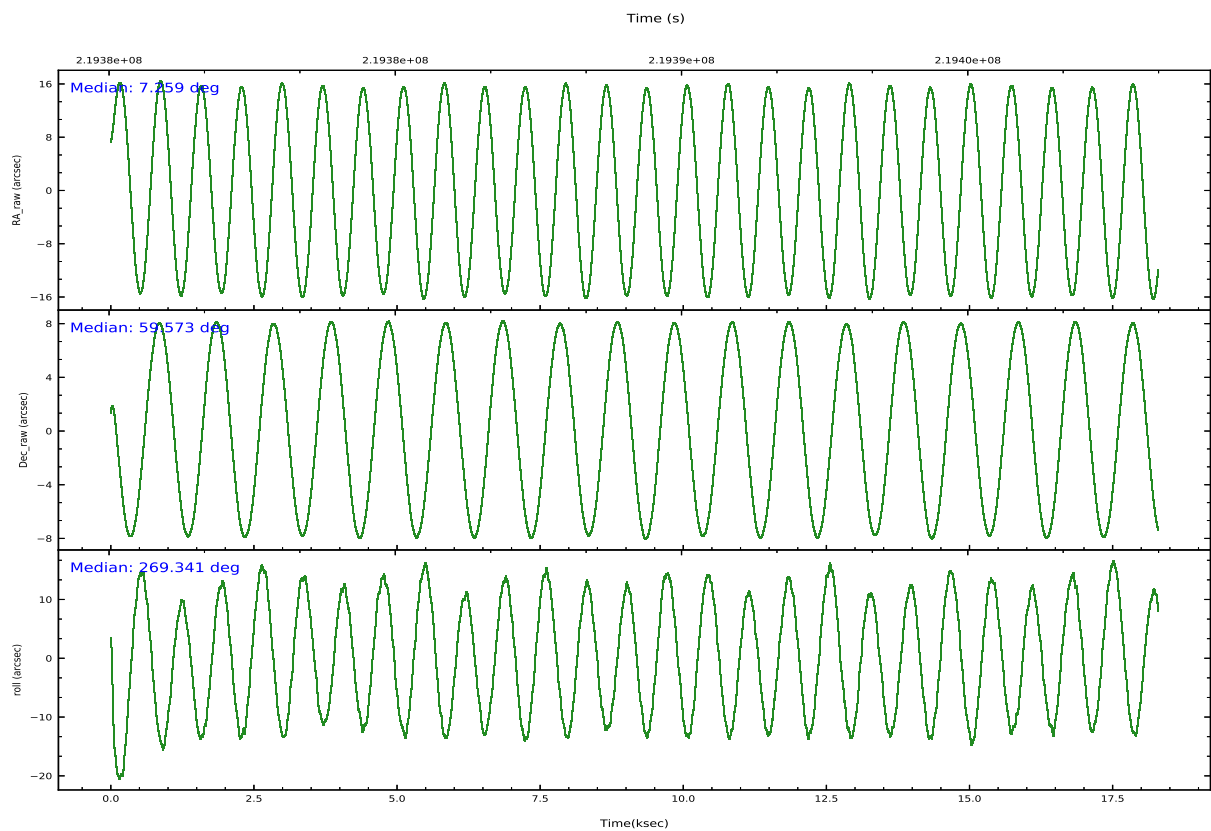
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	88383	114443	77880	102981	92726	71491	grade 0 events	12243	10032	7992	5469	7594	3818
rejected events	70168	54844	63317	53901	71418	62217		13%	8%	10%	5%	8%	5%
rejected %	79%	47%	81%	52%	77%	87%	grade 1 events	98	833	35	164	48	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	2244	16247	2329	10239	4350	1678
								2%	14%	2%	9%	4%	2%
							grade 3 events	1151	3695	1211	4806	2190	1074
								1%	3%	1%	4%	2%	1%
							grade 4 events	1098	3643	1156	4732	1958	1017
								1%	3%	1%	4%	2%	1%
							grade 5 events	2860	8318	2995	8947	3809	3205
								3%	7%	3%	8%	4%	4%
							grade 6 events	1482	25988	1877	23837	5219	1688
								1%	22%	2%	23%	5%	2%
							grade 7 events	67207	45687	60285	44787	67558	58969
								76%	39%	77%	43%	72%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	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	7.232497	7.2537628084299	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	59.597003	59.575596368603	Subarray start row	1	1
[deg] Pointing Roll	269.209654	269.34146290334	Subarray row count	512	512
[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	1.7
[mm] SIM translation stage pos	-183.992523	-183.985022191653			
[mm] SIM translation stage offset	-6.14	-6.147500391354811			
[s] Observation start time (MET)	219380326.184000	219379421.36739			
Observation start date	2004-12-14T02:57:42	2004-12-14T02:43:41			
[s] Observation end time (MET)	219398326.184000	219398558.63076			
Observation end date	2004-12-14T07:57:42	2004-12-14T08:02:38			
Read mode	TIMED	TIMED			

2.3 Aspect



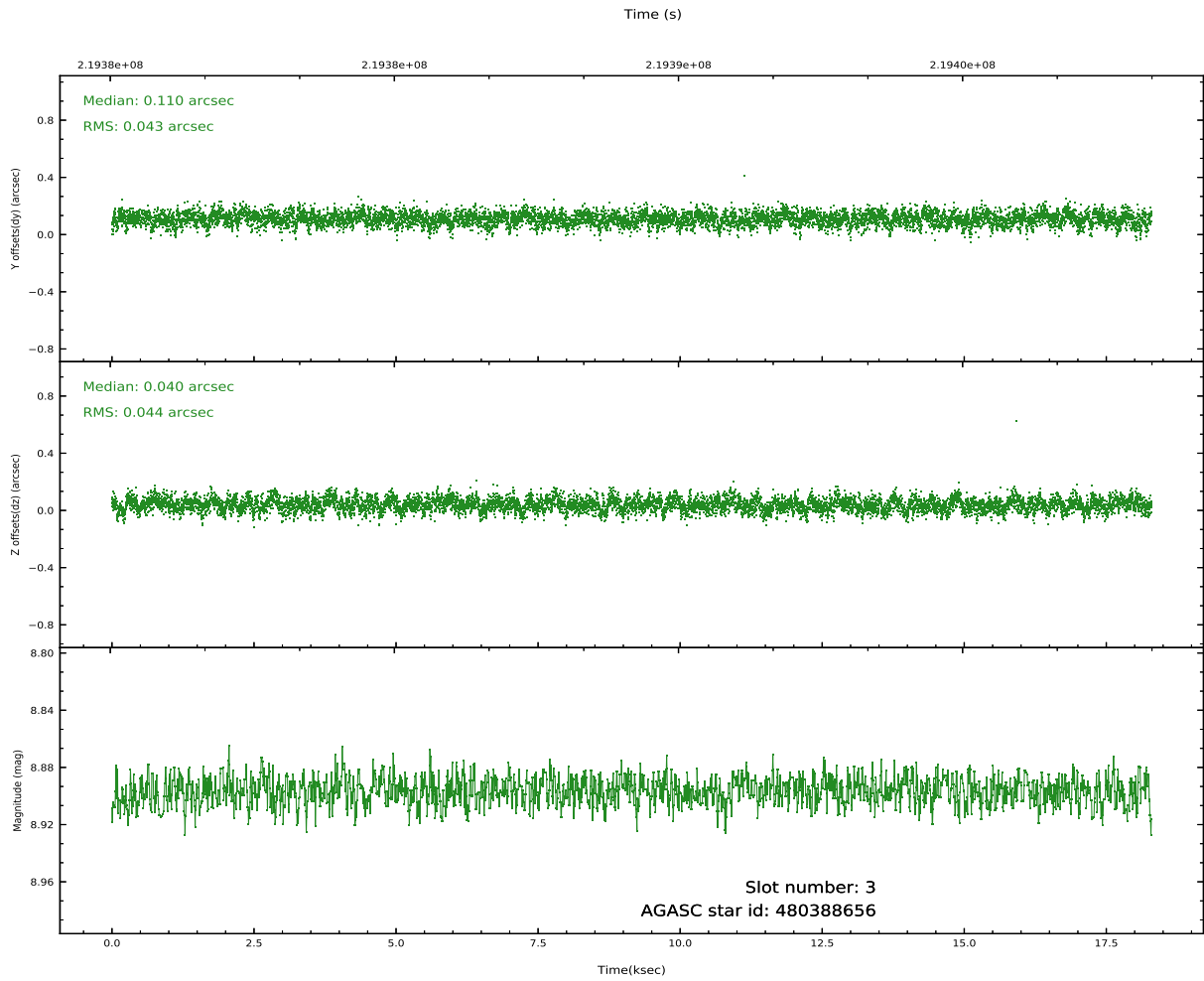
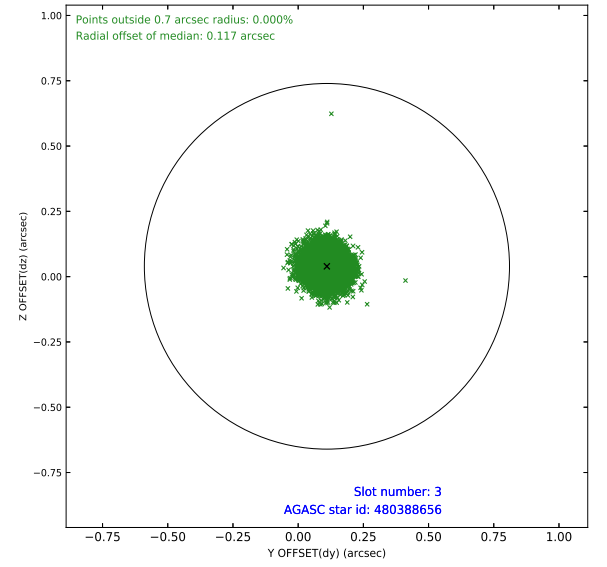
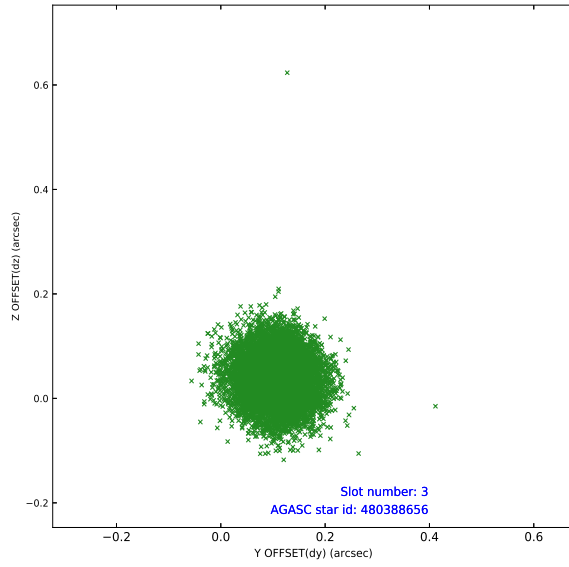


Slot Statistics

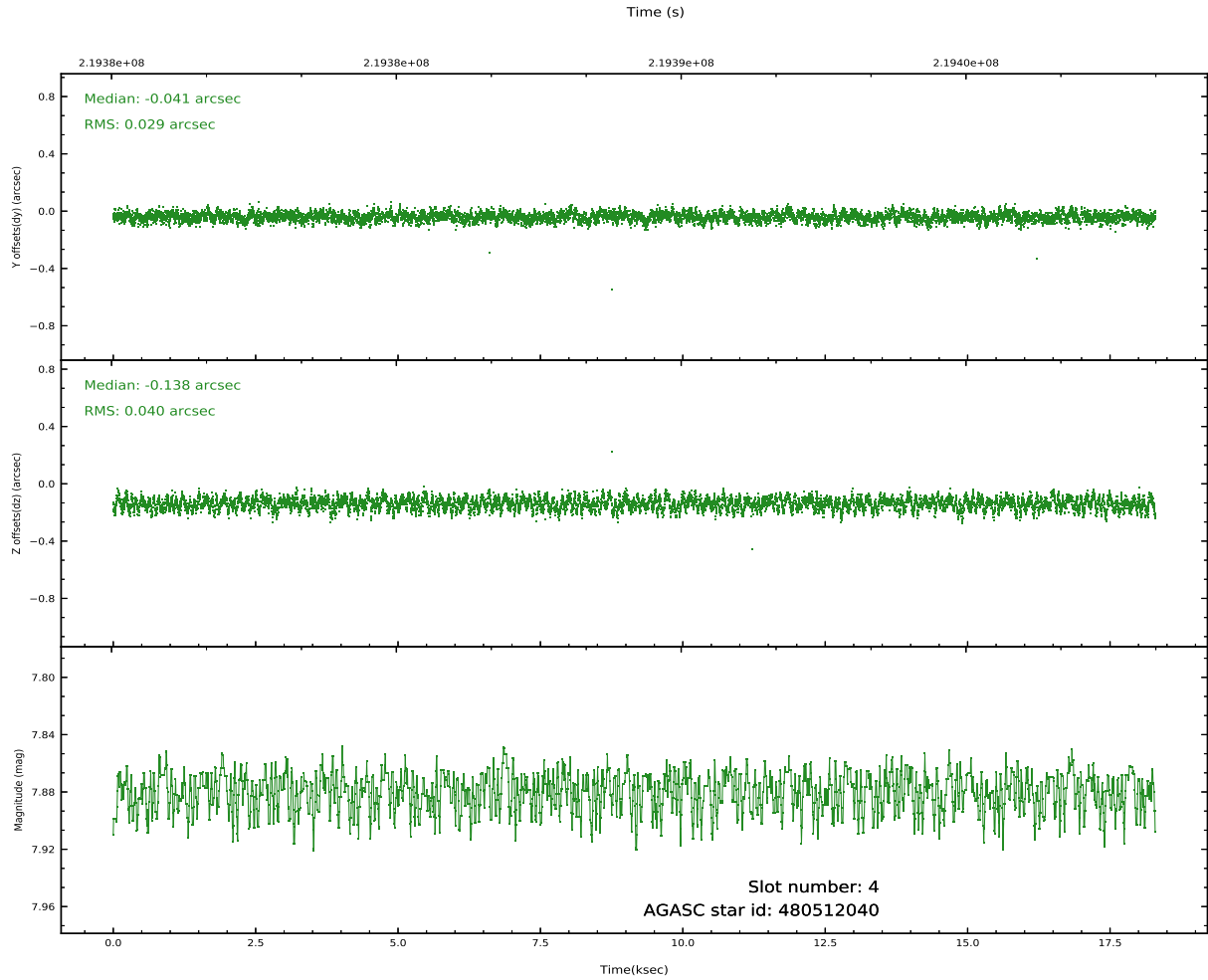
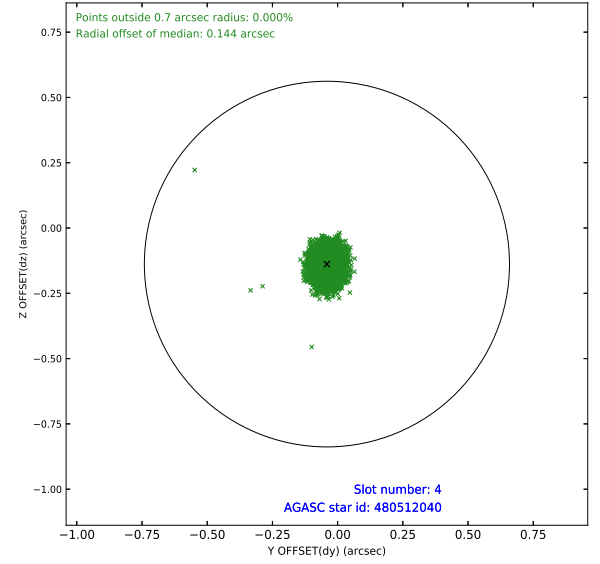
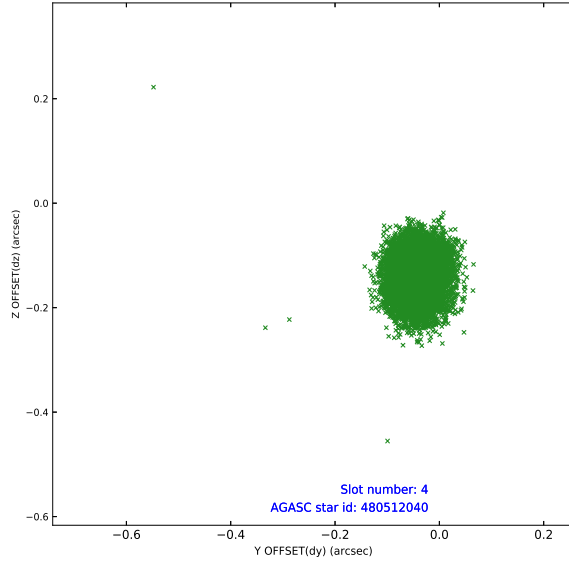
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	4463	1.000	-0.087	-0.156	0.007	0.011	0.000000	0.000000	-759.74	-1858
1	FID		ACIS-S-4	7.18	4462	1.000	0.155	0.084	0.005	0.010	0.000000	0.000000	2153.67	50
2	FID		ACIS-S-5	7.22	4463	1.000	-0.100	0.081	0.007	0.011	0.000000	0.000000	-1812.32	44
3	GUIDE	used	480388656	8.90	8922	1.000	0.110	0.040	0.066	0.105	6.593066	59.181927	1505.10	-1158
4	GUIDE	used	480512040	7.88	8919	1.000	-0.041	-0.138	0.053	0.084	7.309429	59.469475	457.27	146
5	GUIDE	used	480513376	8.58	8922	1.000	0.089	-0.016	0.058	0.092	7.508901	59.105688	1760.85	535
6	GUIDE	used	480518776	8.14	8926	1.000	-0.045	0.023	0.065	0.103	8.537557	59.899306	-1143.79	2340
7	GUIDE	used	526276608	8.59	8924	1.000	-0.110	0.093	0.060	0.098	7.524994	60.151139	-2003.25	496

2.4 Star Slots

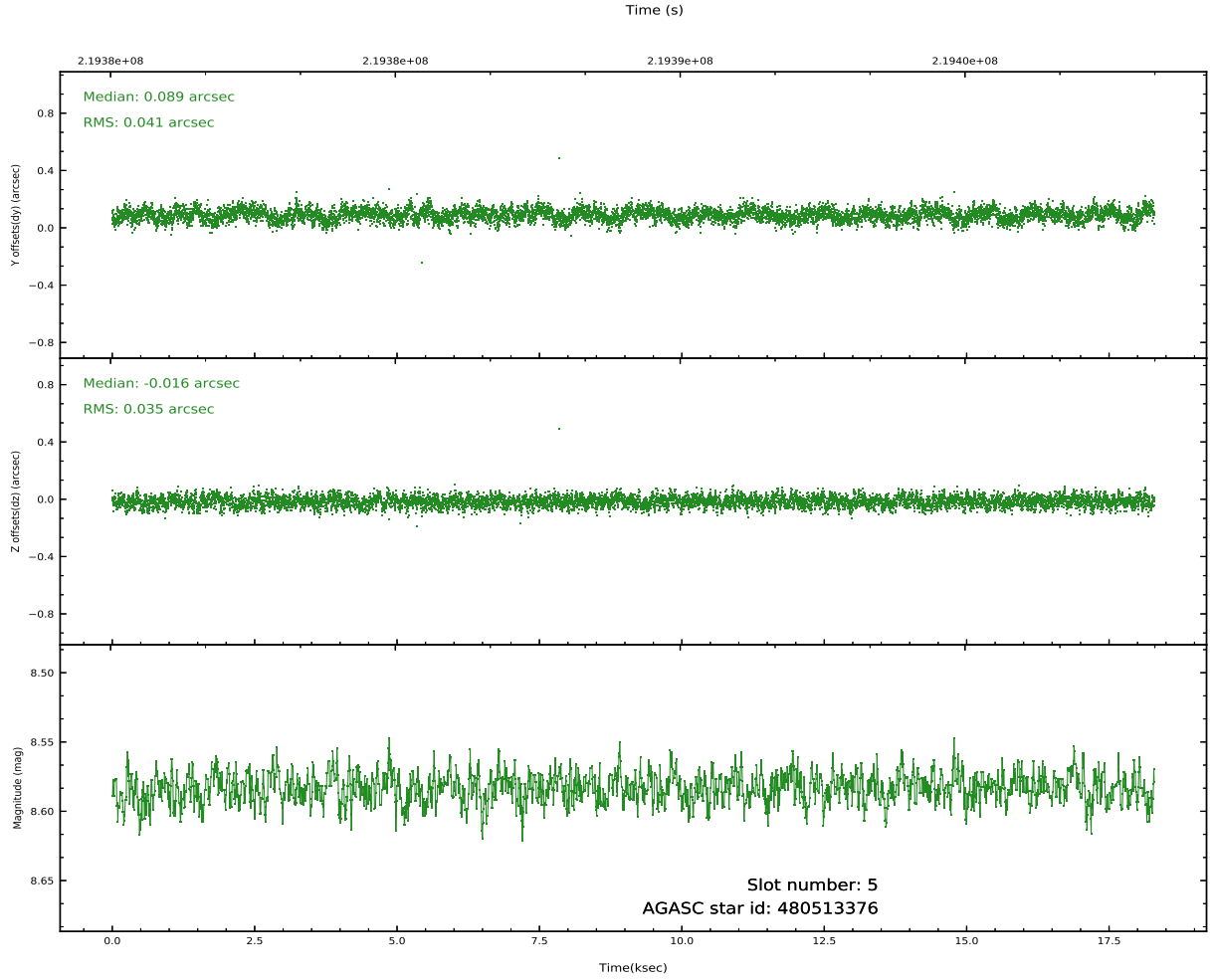
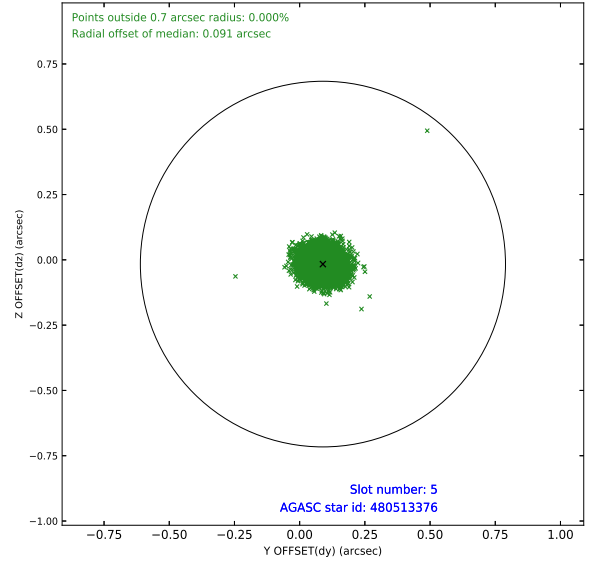
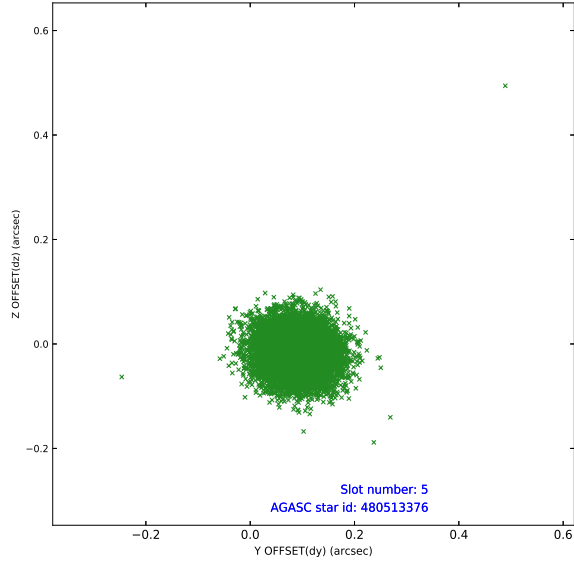
2.4.1 Slot 3



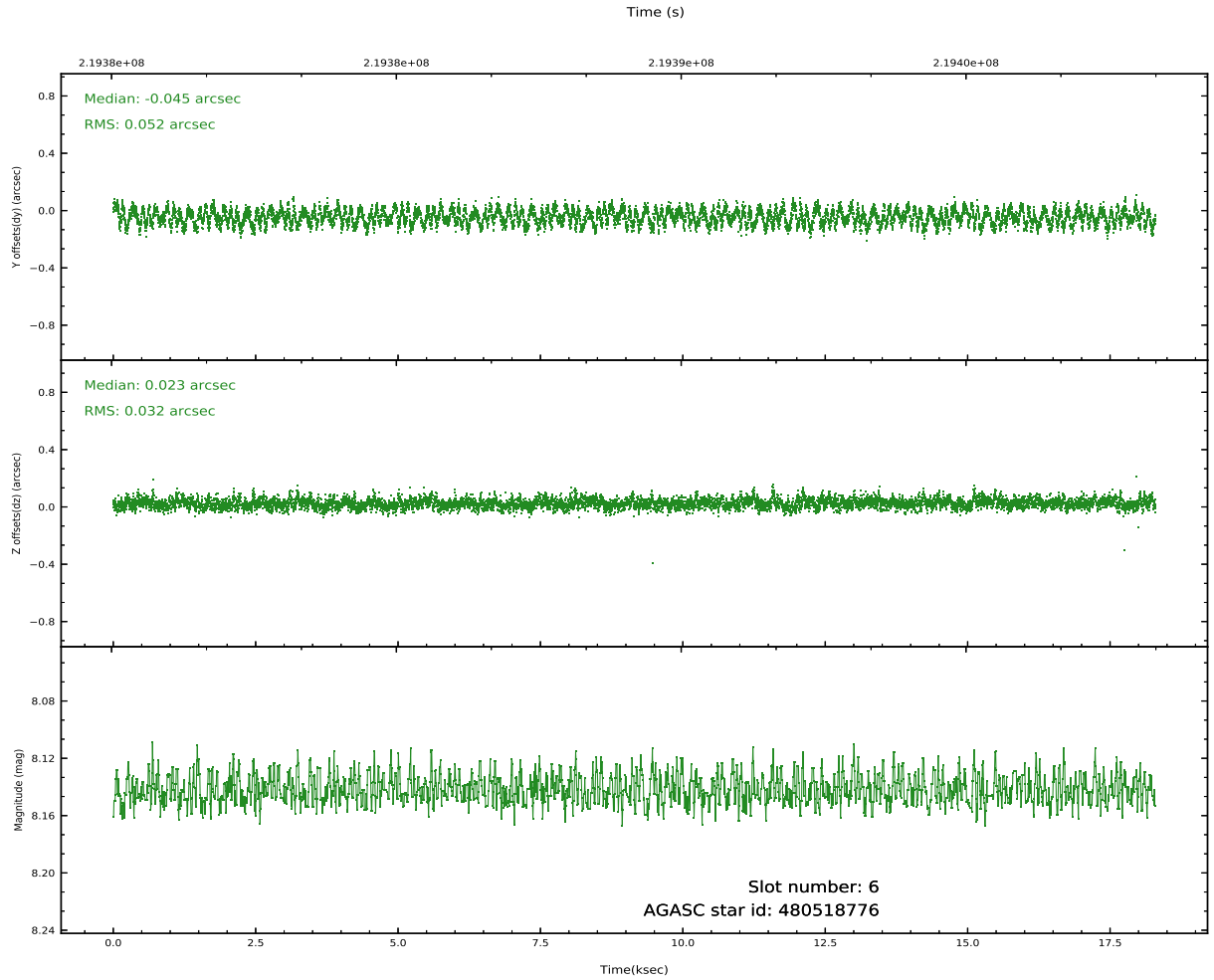
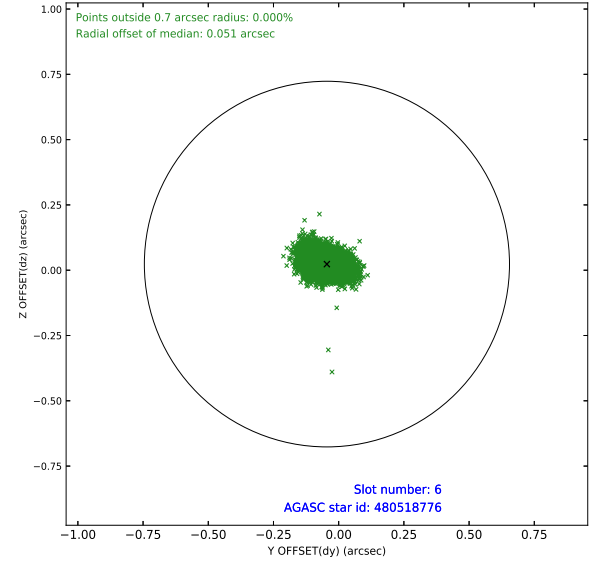
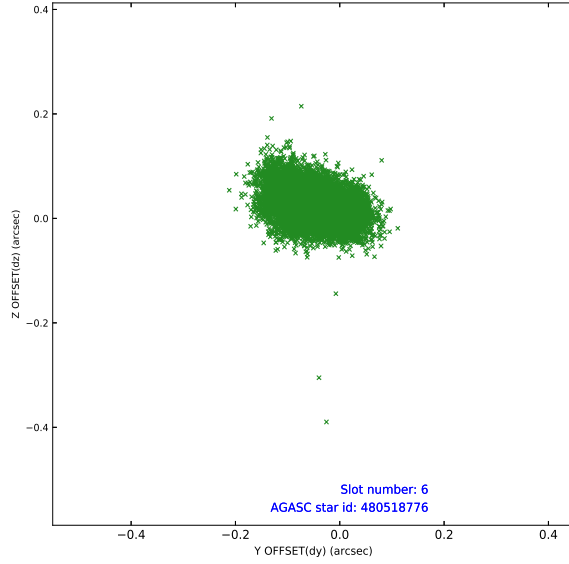
2.4.2 Slot 4



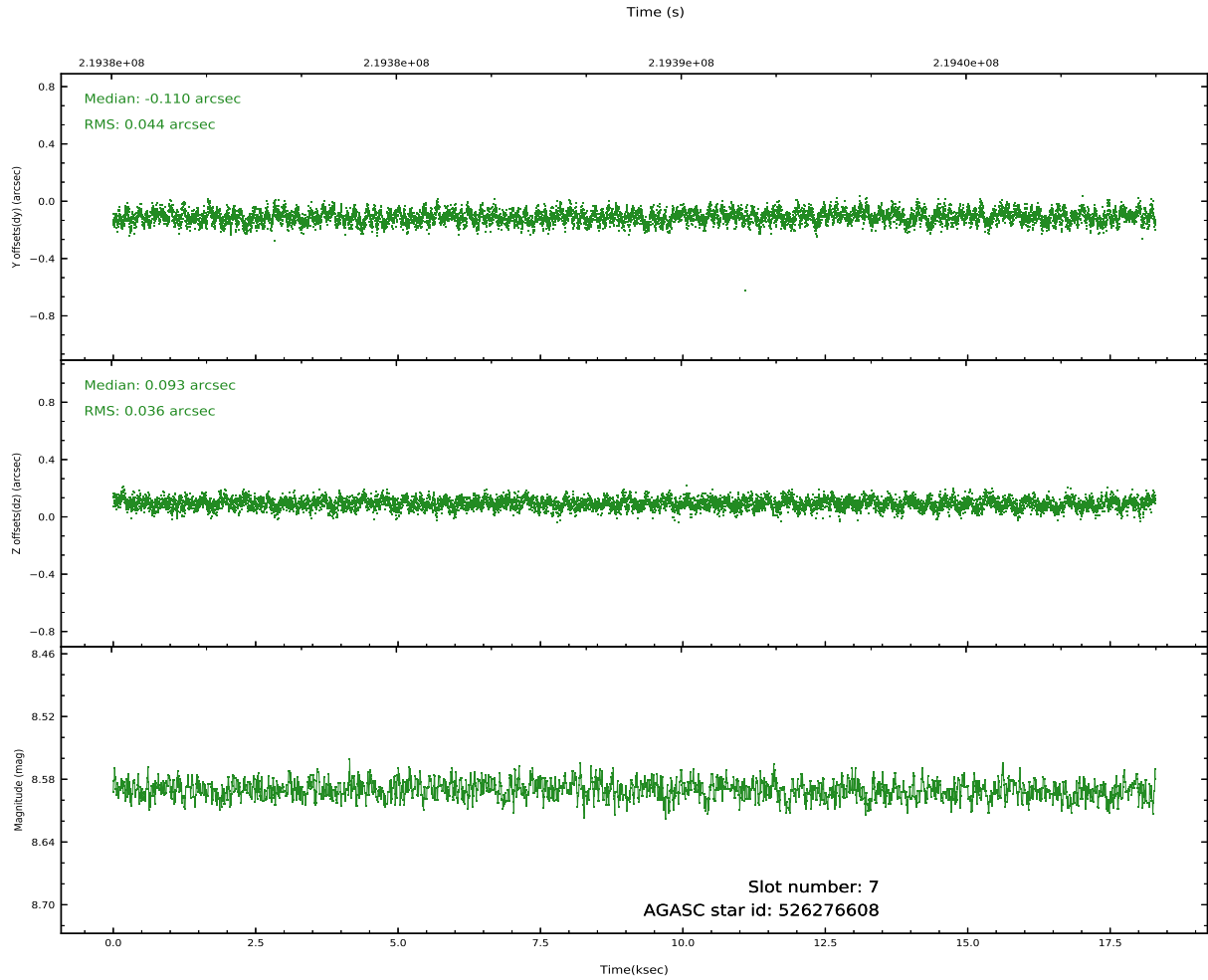
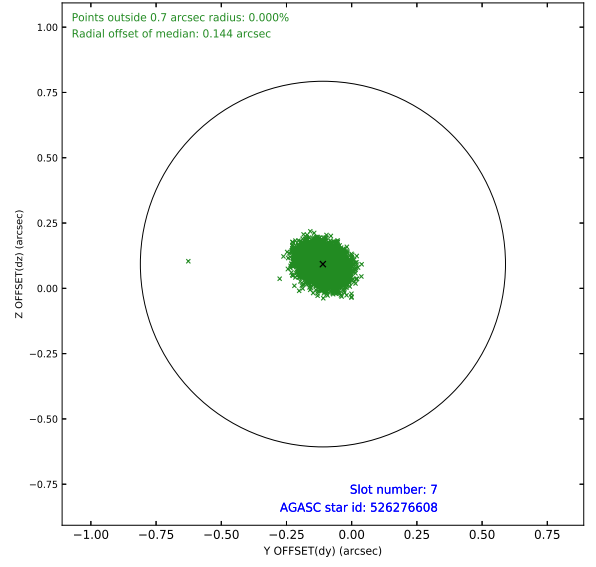
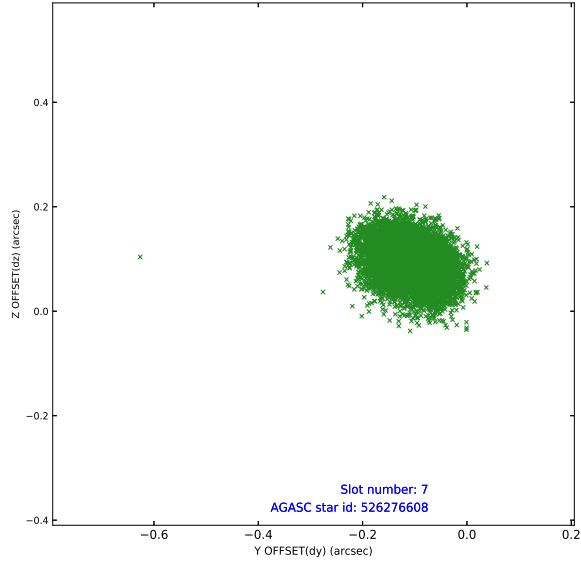
2.4.3 Slot 5



2.4.4 Slot 6

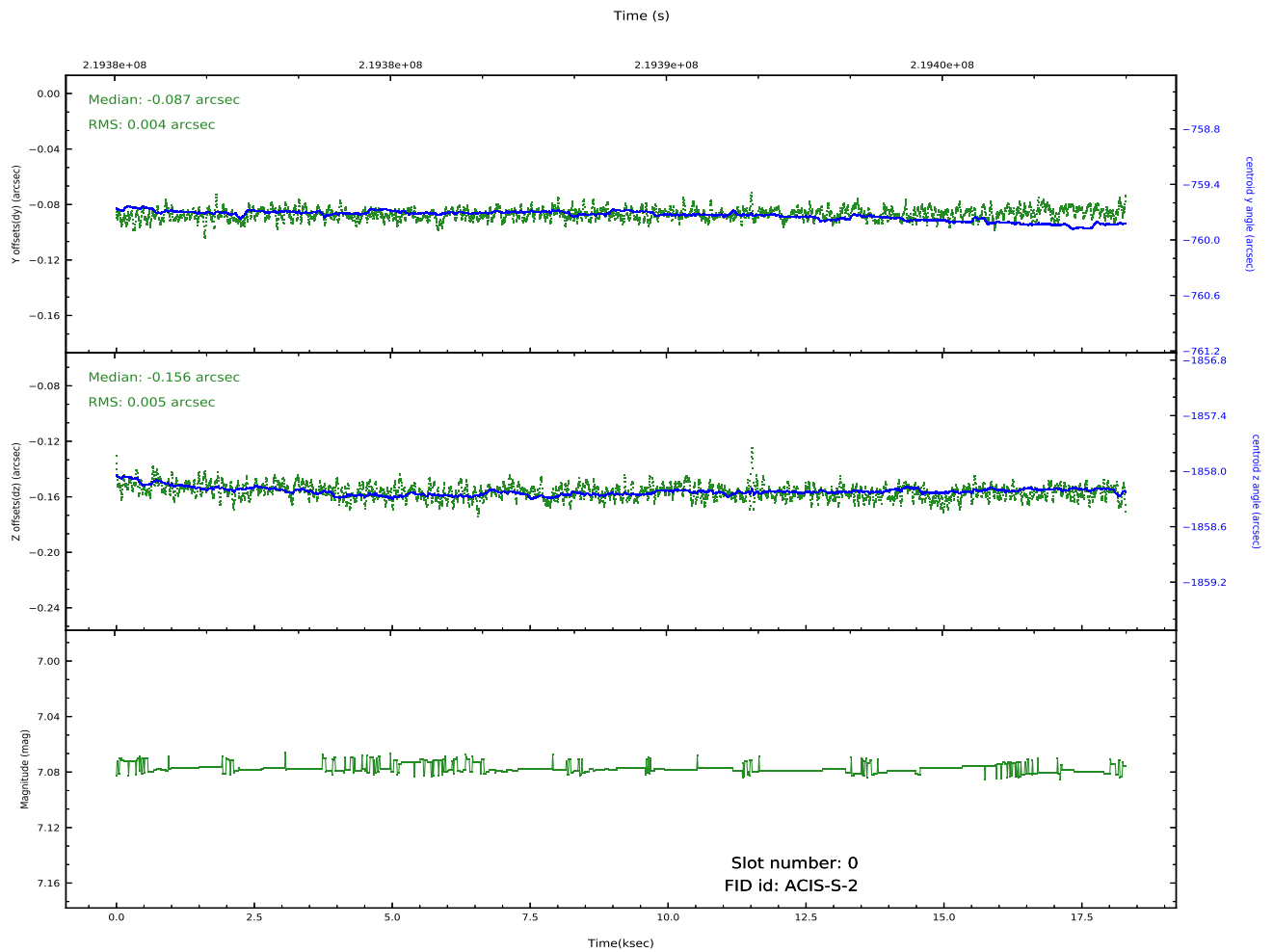
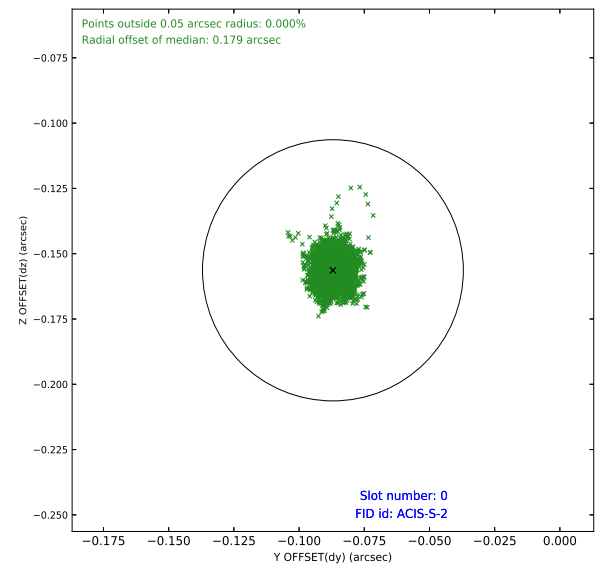
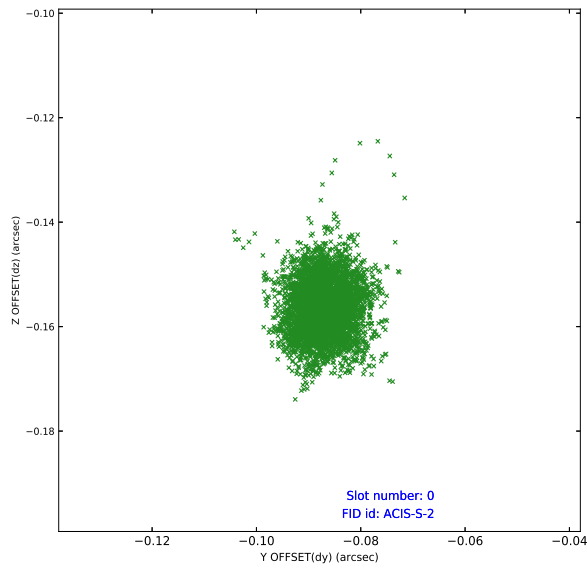


2.4.5 Slot 7

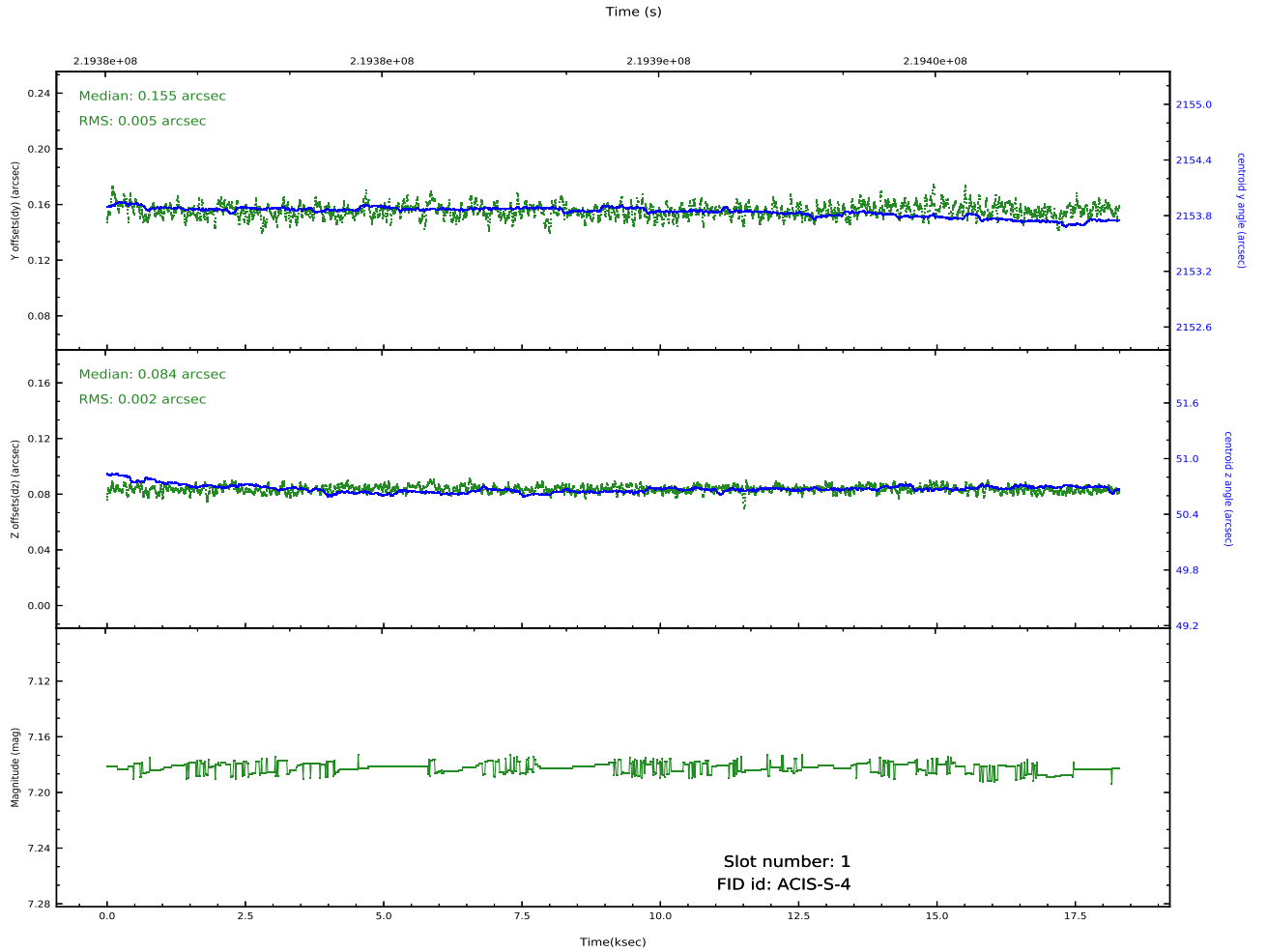
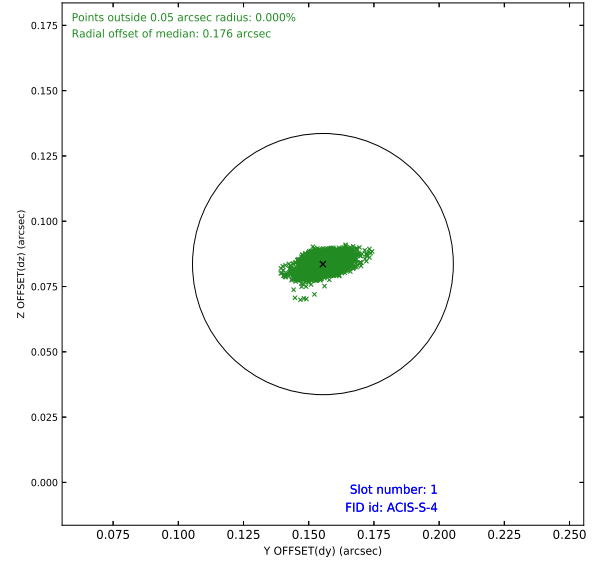
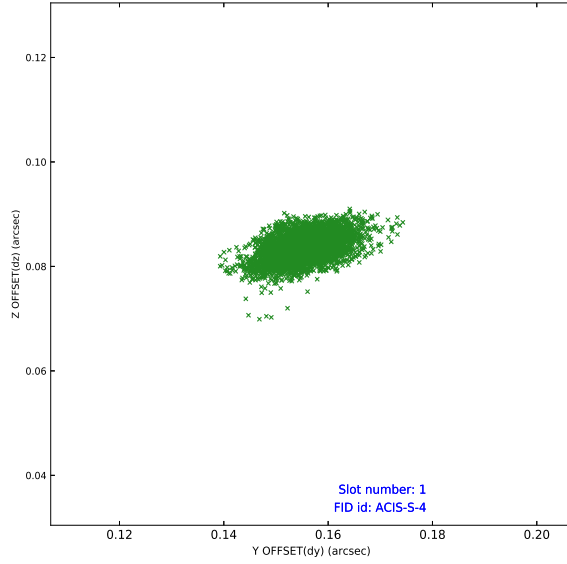


2.5 FID Slots

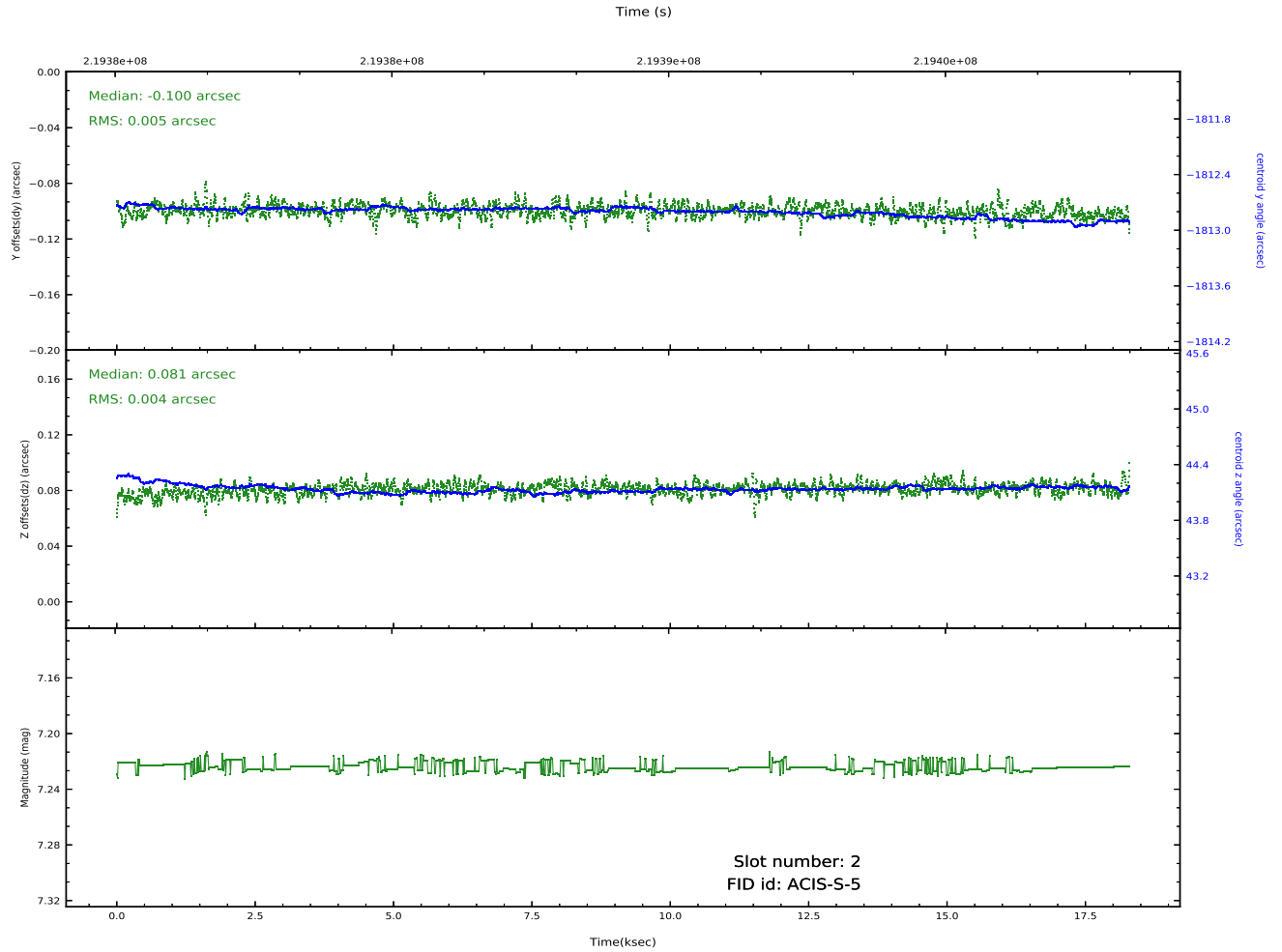
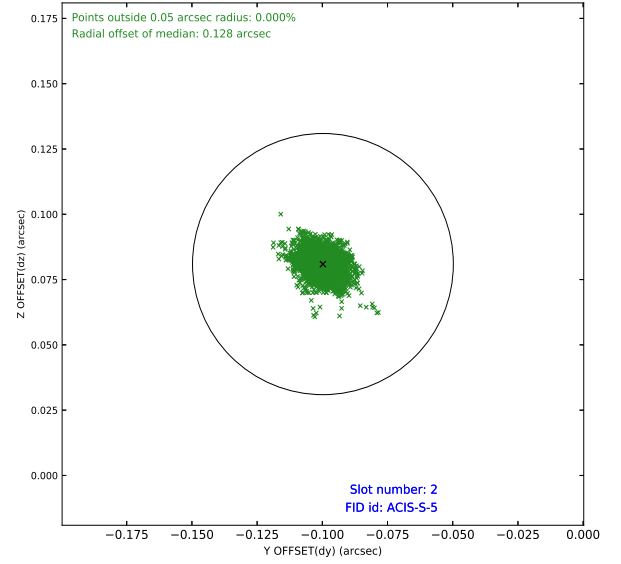
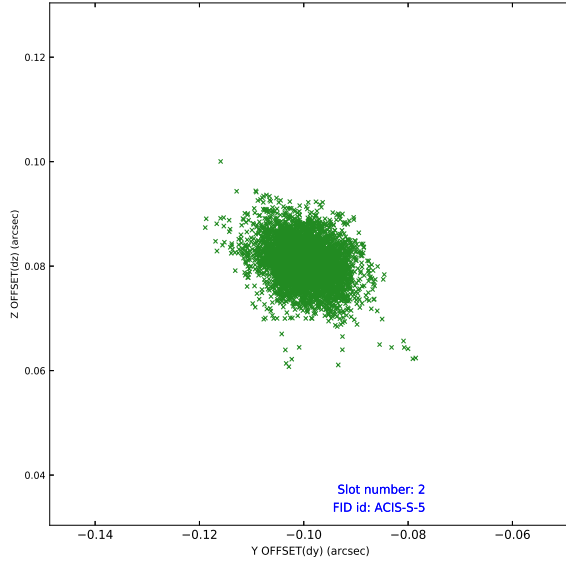
2.5.1 Slot 0



2.5.2 Slot 1

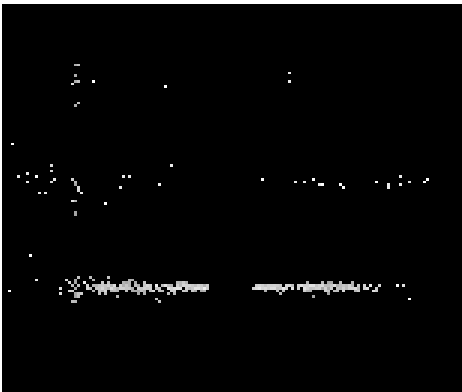


2.5.3 Slot 2

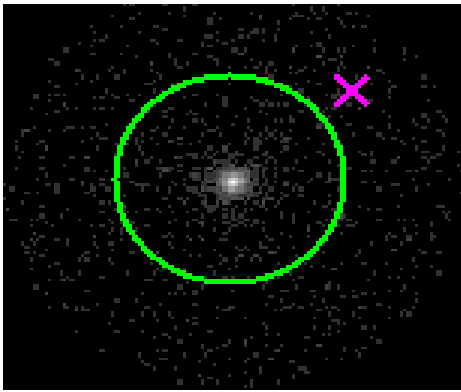


3 Gratings

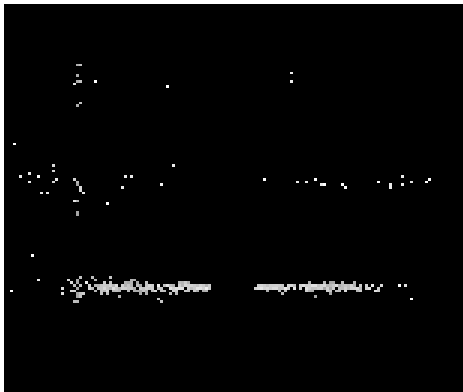
3.1 HEG Arm



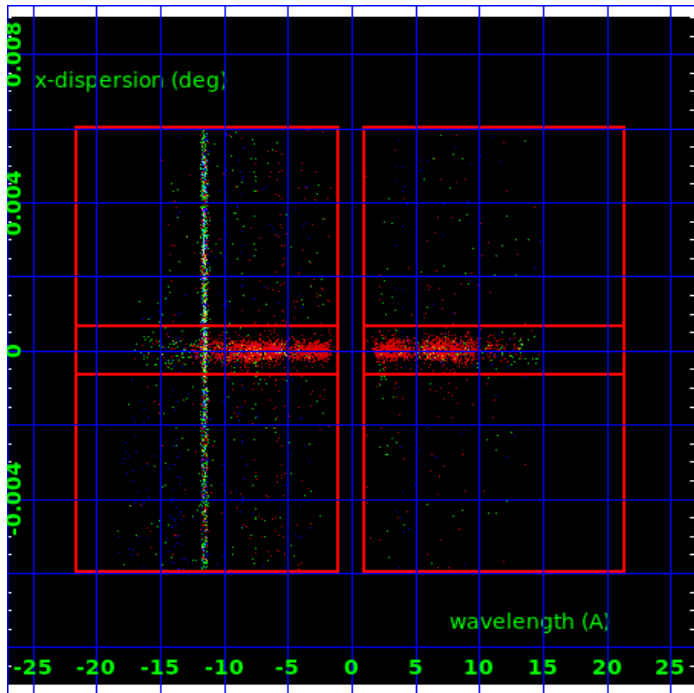
HEG Order Sort 123



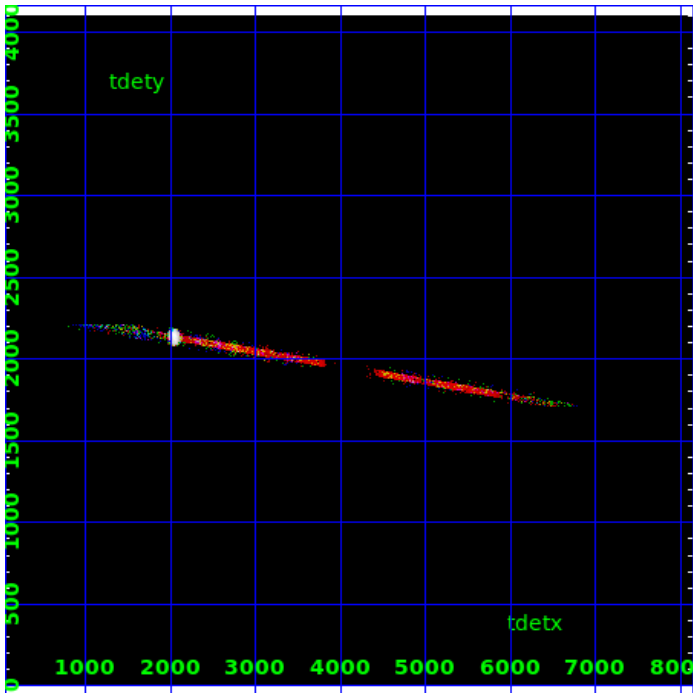
HEG Zero Order



HEG Order Sort ALL

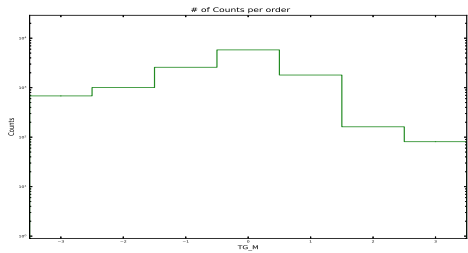


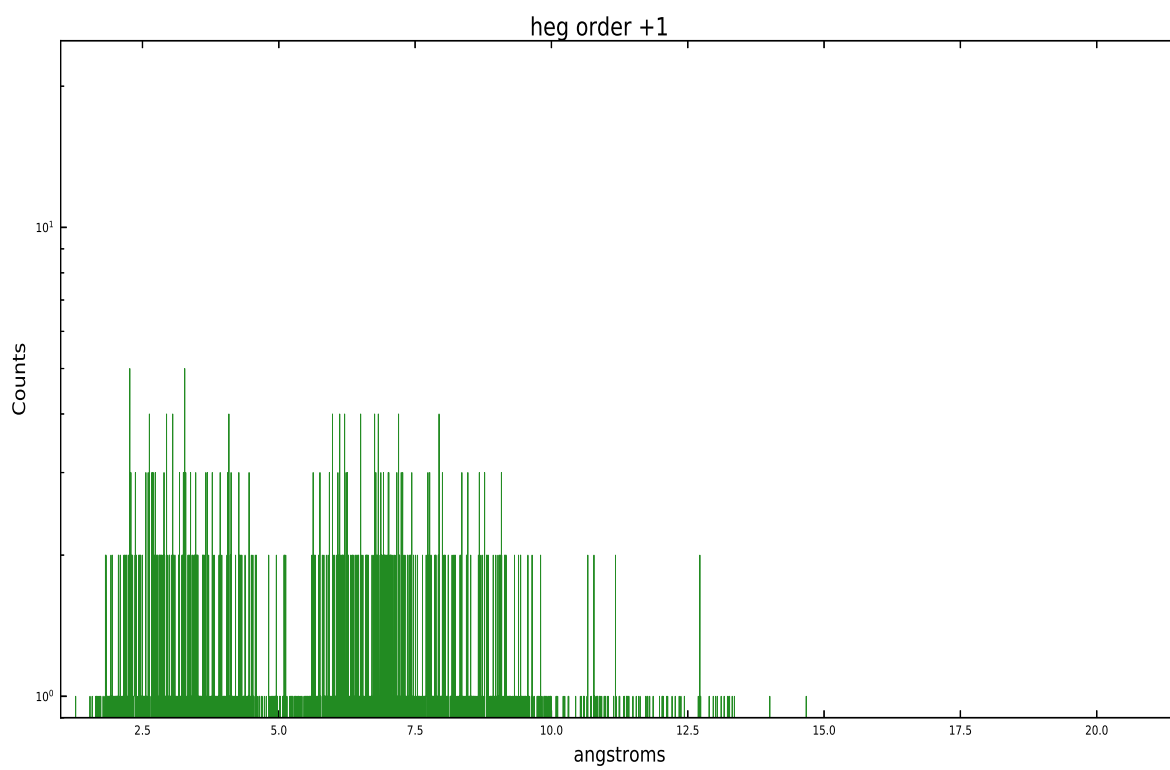
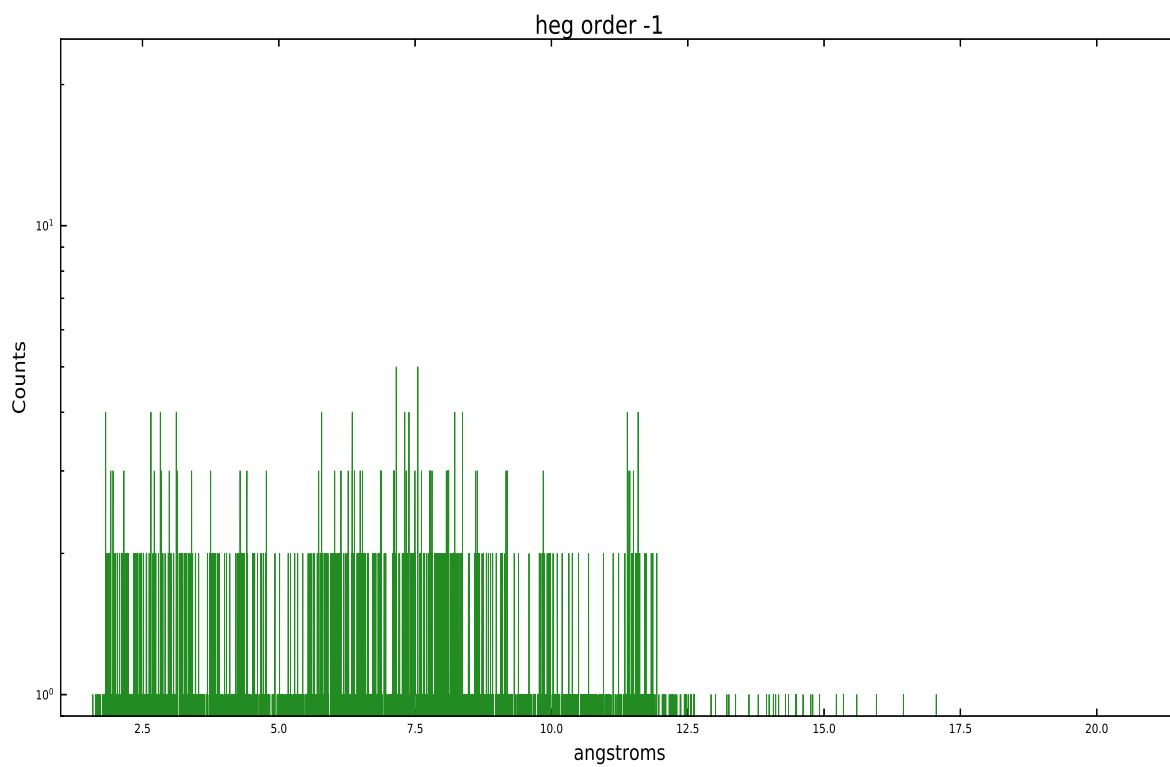
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	682	1006	2584	5804	1801	162	81

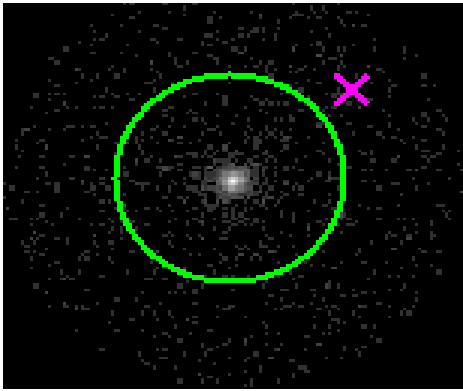




3.2 MEG Arm



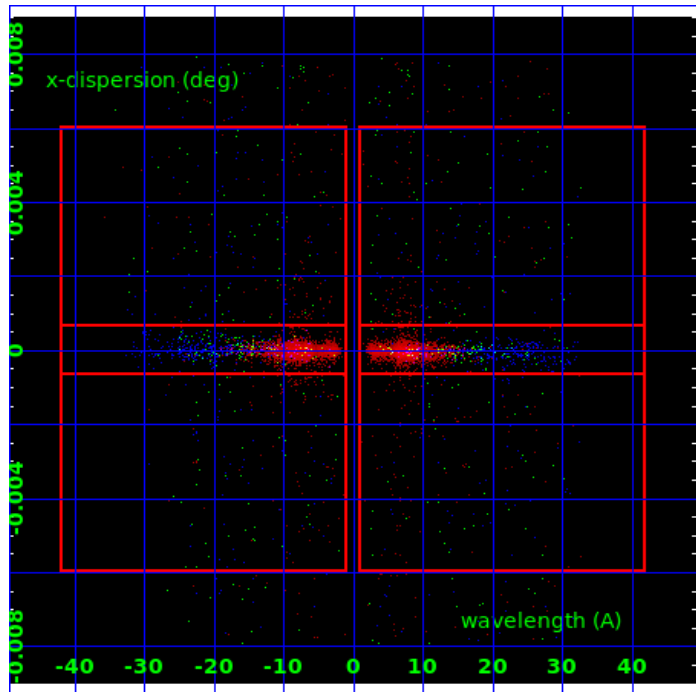
MEG Order Sort 123



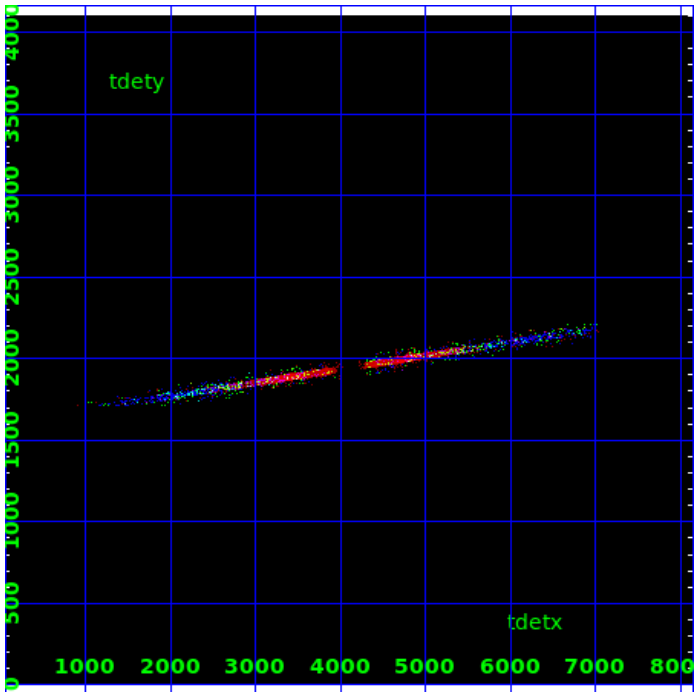
MEG Zero Order



MEG Order Sort ALL

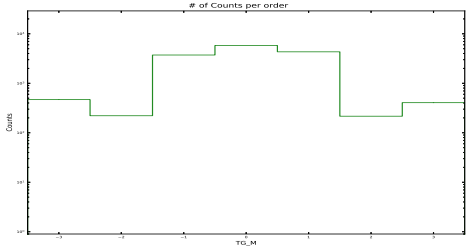


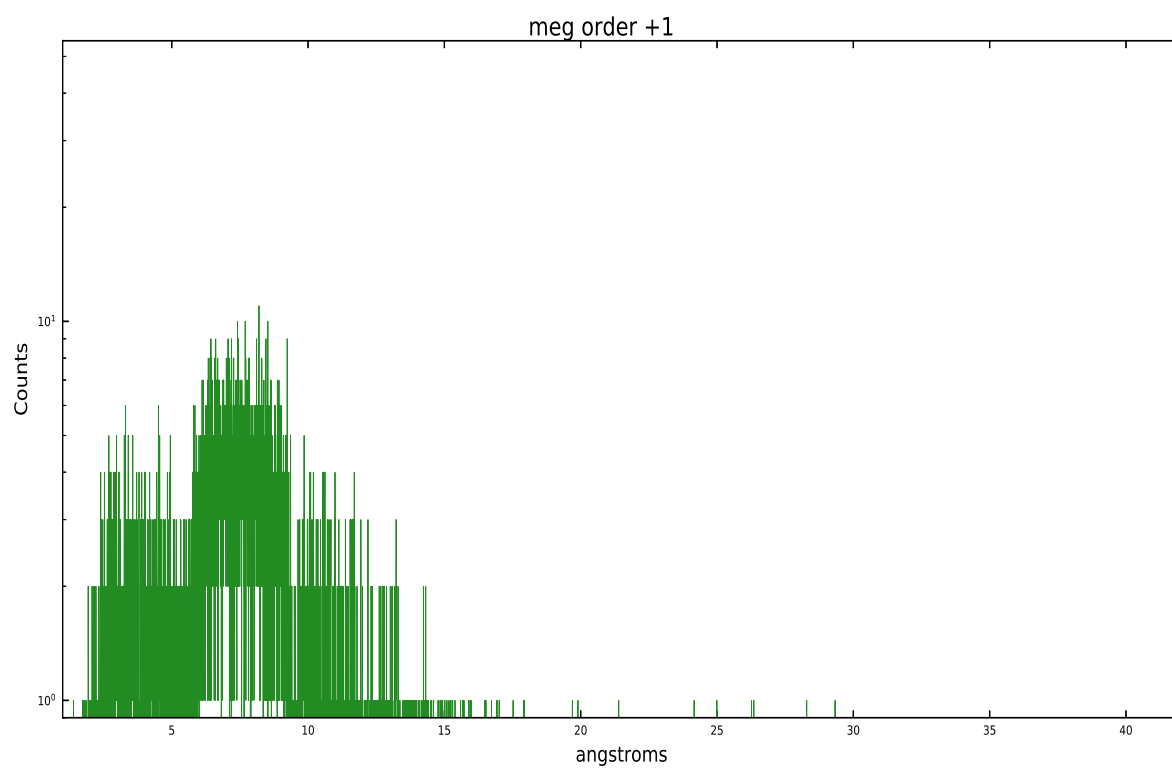
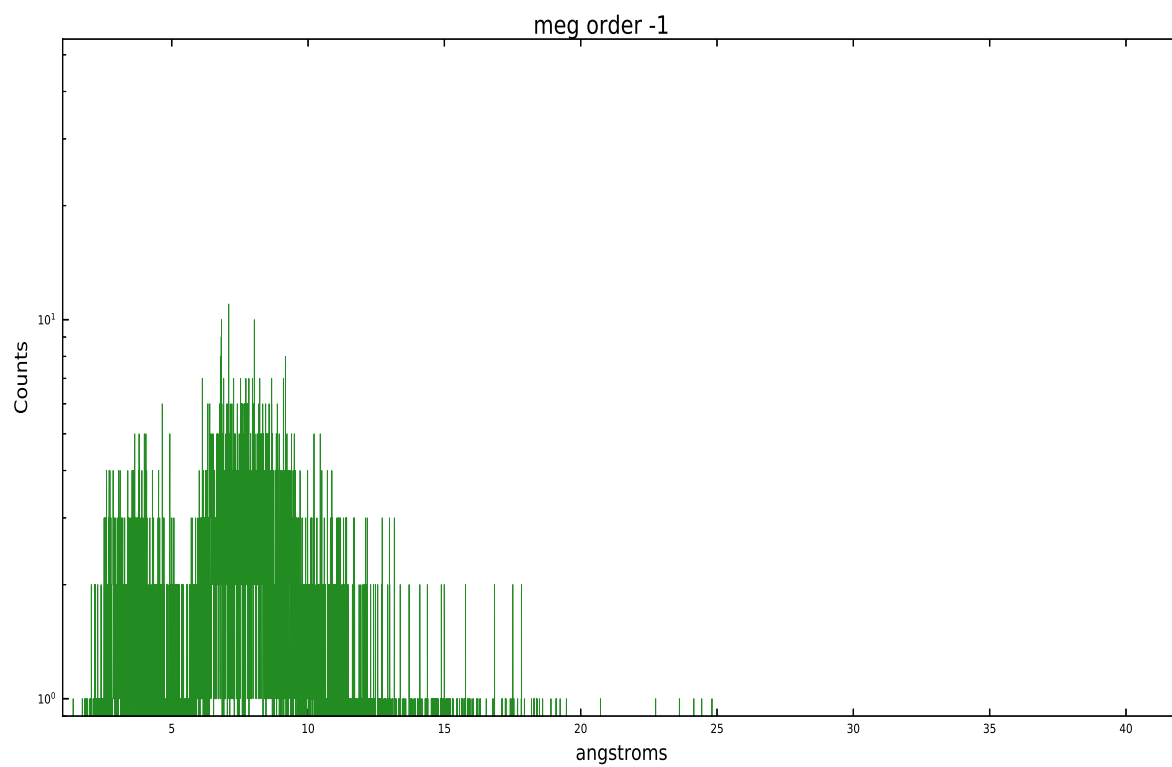
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	468	221	3727	5804	4324	216	406





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.07099

A.2 Comments