

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19298 - L2 Version 2
Chandra X-Ray Center

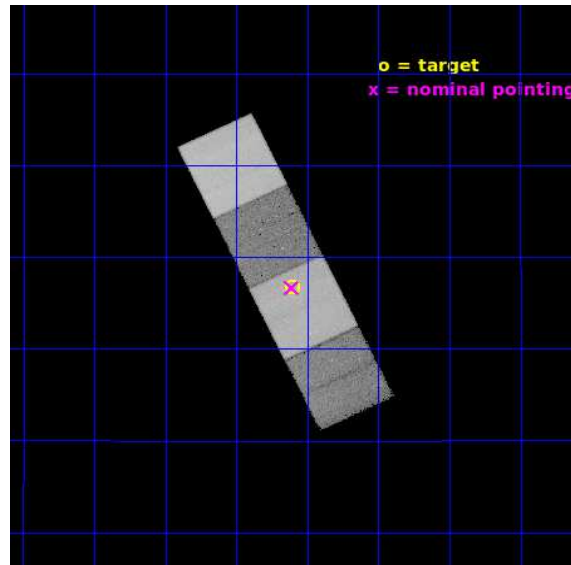
L2 Processing Date : Oct 24 2020

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1 Front

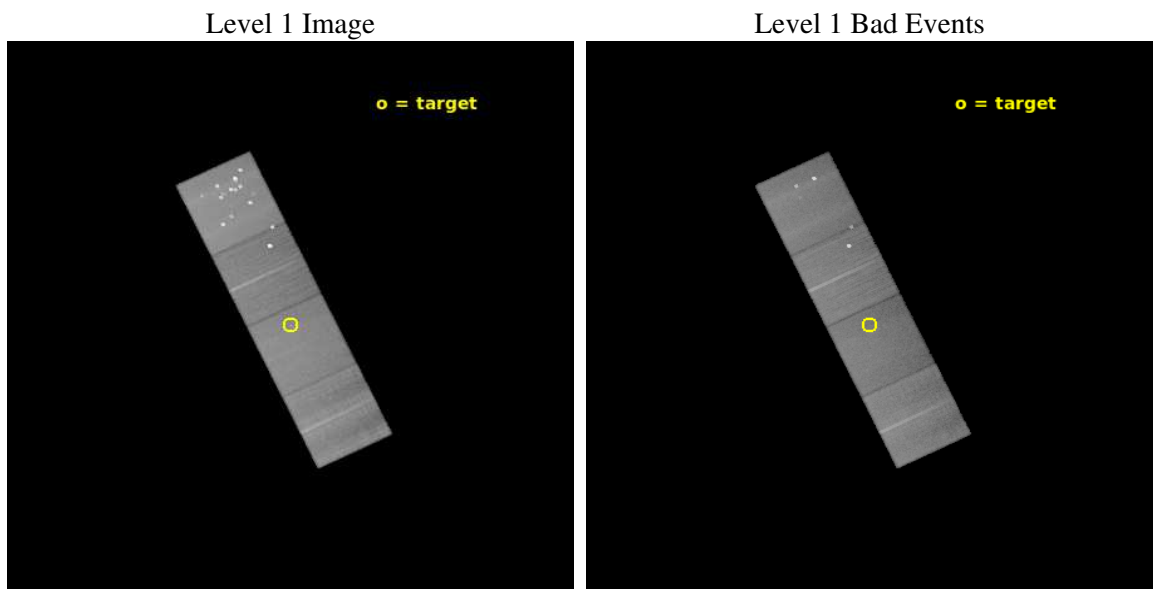
seq_num	502946	Sequence number
obs_id	19298	Observation id
title	SN 2005IP AWAKENS: ELUCIDATING A 10,000 YEAR OLD MASS ERUPTION WITH X-RAY OBSERVATIONS	Proposal title
observer	Jon Mauerhan	Principal investigator
object	SN 2005ip	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.026667	Observer's specified target RA [deg]
dec_targ	8.445667	Observer's specified target Dec [deg]
ra_nom	143.0272935963	Nominal RA [deg]
dec_nom	8.4444718750104	Nominal Dec [deg]
roll_nom	64.190568471965	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41763.200321317	Sum of GTIs [s]
livetime	41217.533363498	Livetime [s]
ontime5	41763.200321317	Sum of GTIs [s]
ontime6	41763.200321317	Sum of GTIs [s]
ontime7	41763.200321317	Sum of GTIs [s]
ontime8	41753.777060628	Sum of GTIs [s]
l2events	436846	Number of level 2 events



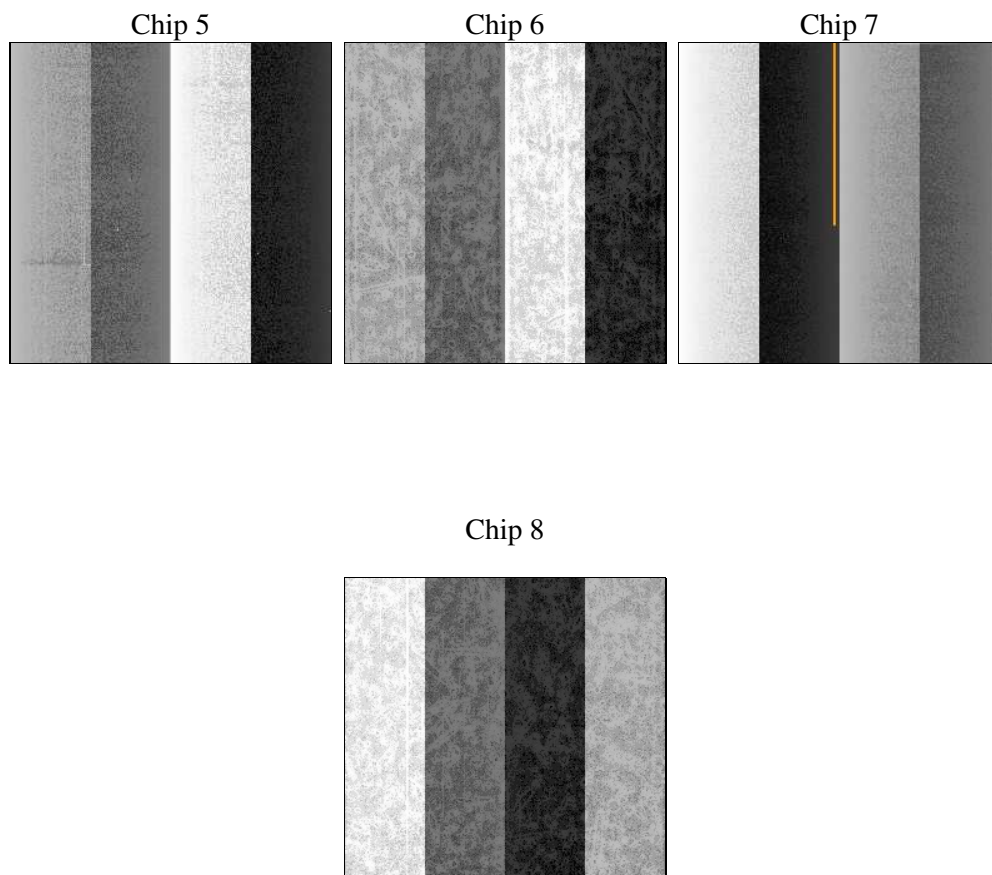
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41702.316000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	41763.200321317	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	41763.200321317	Sum of GTIs [s]
date	2020-10-24T05:22:48	Date and time of file creation	ontime6	41763.200321317	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	41763.200321317	Sum of GTIs [s]
			ontime8	41753.777060628	Sum of GTIs [s]
			l1events	1730062	Number of level 1 events

2.1.4 Events

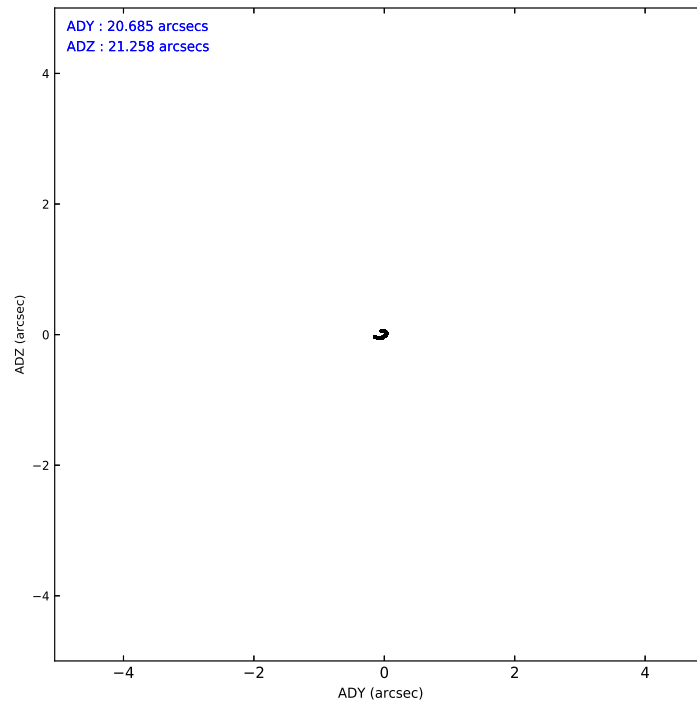
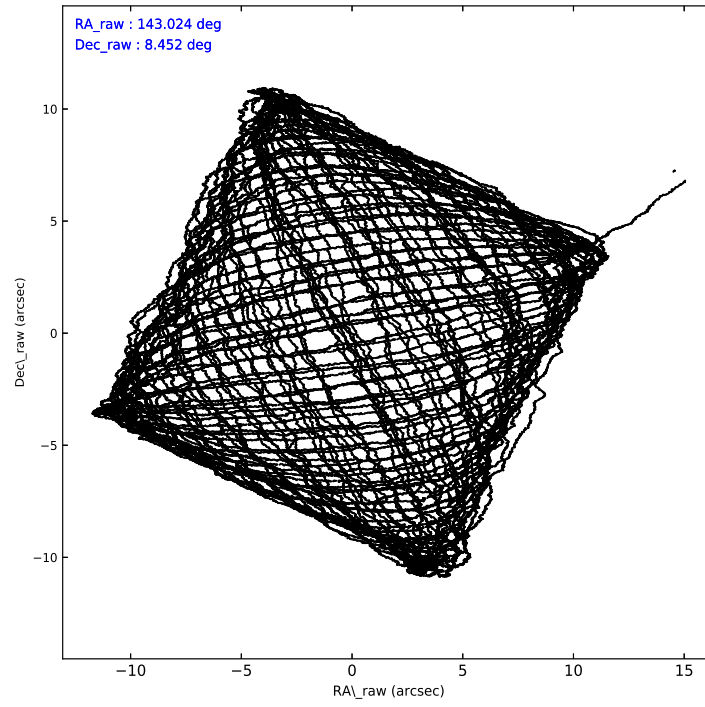
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	598723	351997	388593	390749
rejected events	270268	292649	221664	292096
rejected %	45%	83%	57%	74%

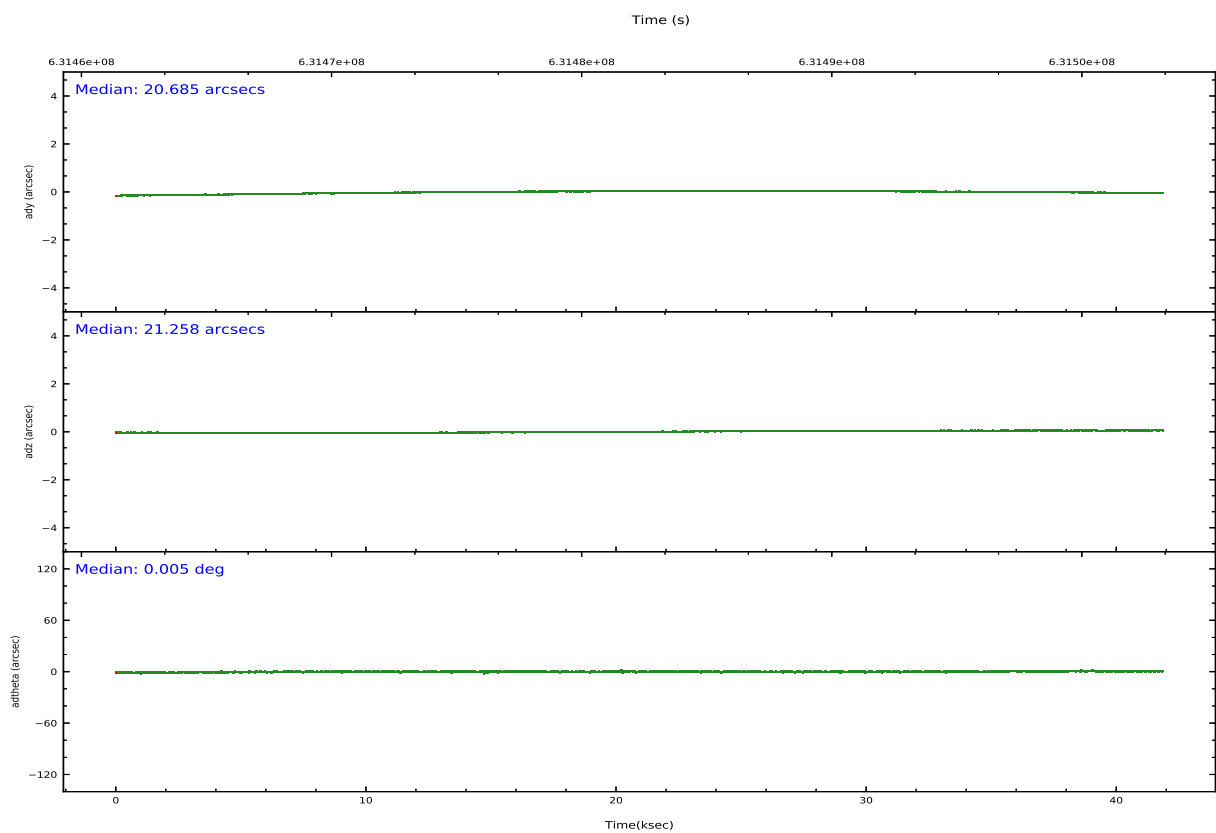
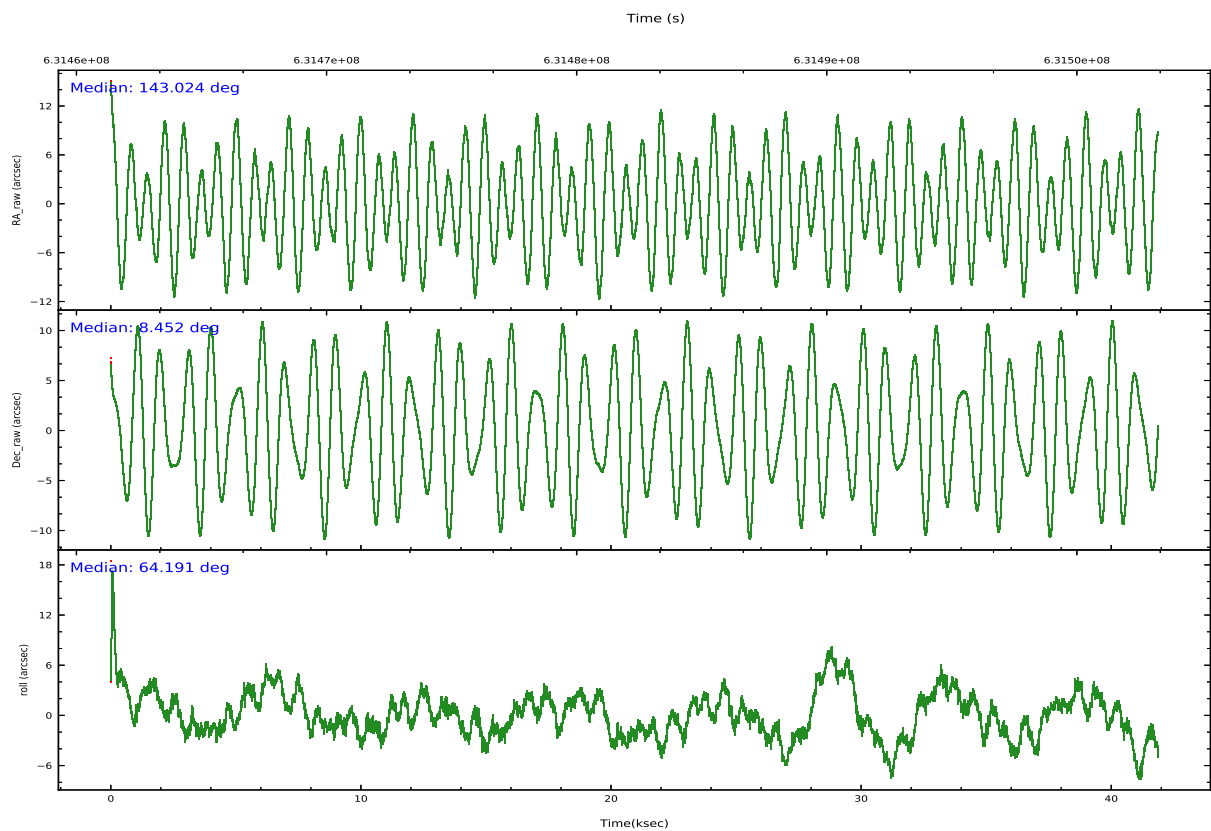
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	87802	35840	13941	27183
	14%	10%	3%	6%
grade 1 events	1328	13217	560	290
	0%	3%	0%	0%
grade 2 events	90298	8595	34661	23956
	15%	2%	8%	6%
grade 3 events	10741	3143	13399	10467
	1%	0%	3%	2%
grade 4 events	8379	3152	13011	9605
	1%	0%	3%	2%
grade 5 events	34762	13134	38034	20759
	5%	3%	9%	5%
grade 6 events	131294	8625	91946	27457
	21%	2%	23%	7%
grade 7 events	234119	266291	183041	271032
	39%	75%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	143.026795	143.0272935963	CCD I2 on	N	N
[deg] Pointing Dec	8.425154	8.4444718750104	CCD I3 on	O1	N
[deg] Pointing Roll	64.043474	64.19056847196499	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	631461548.184000	631459869.35765	CCD S5 on	N	N
Observation start date	2018-01-04T13:57:59	2018-01-04T13:31:09	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	631503250.184000	631504122.71025	On-chip summing requested	N	N
Observation end date	2018-01-05T01:33:01	2018-01-05T01:48:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



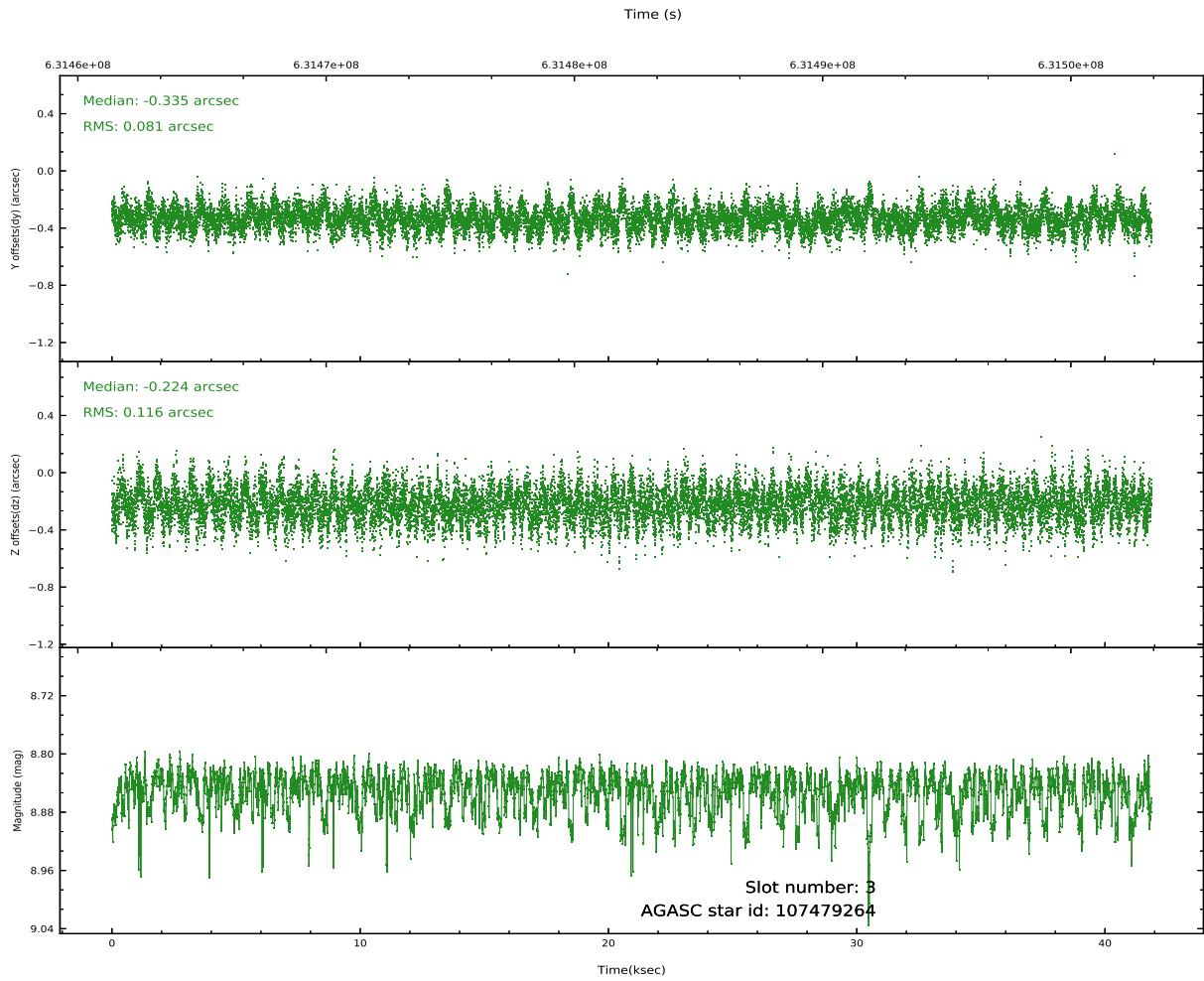
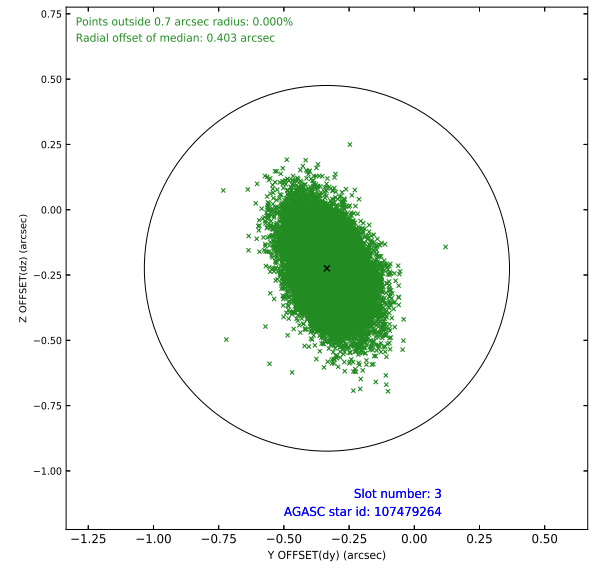
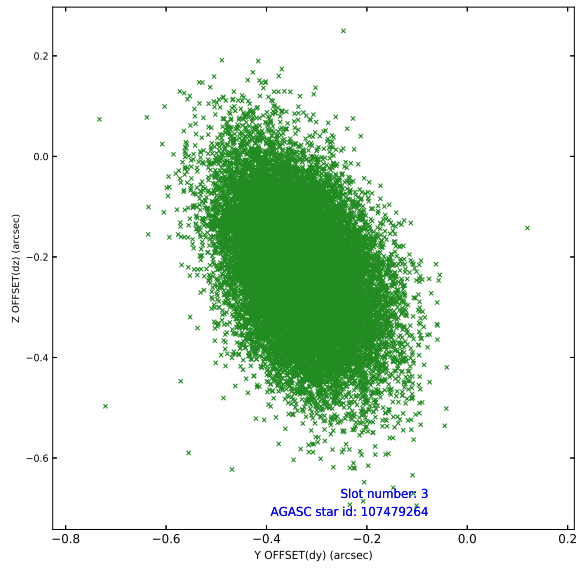


Slot Statistics

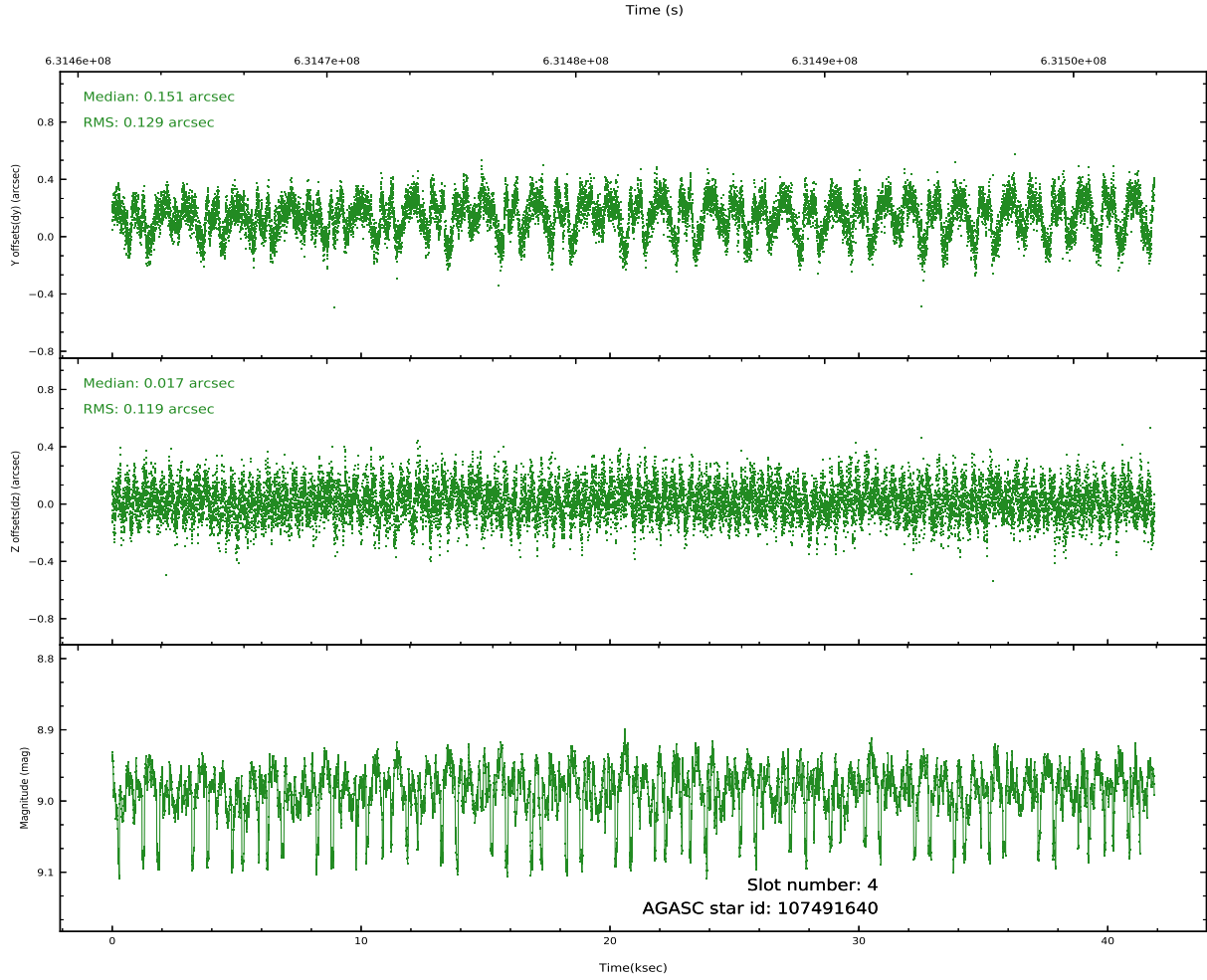
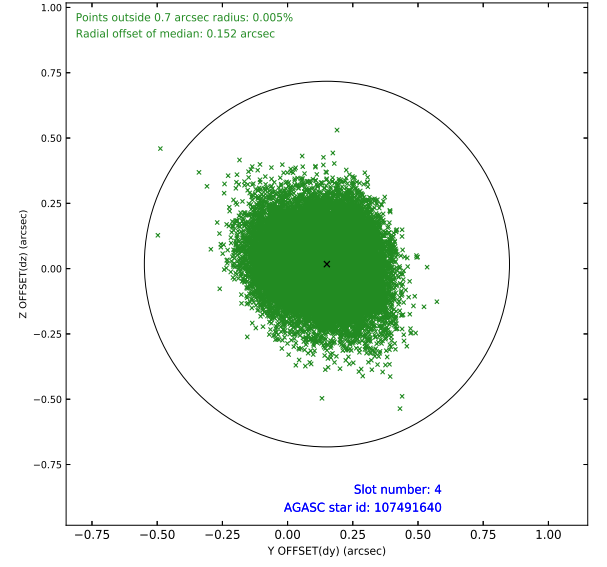
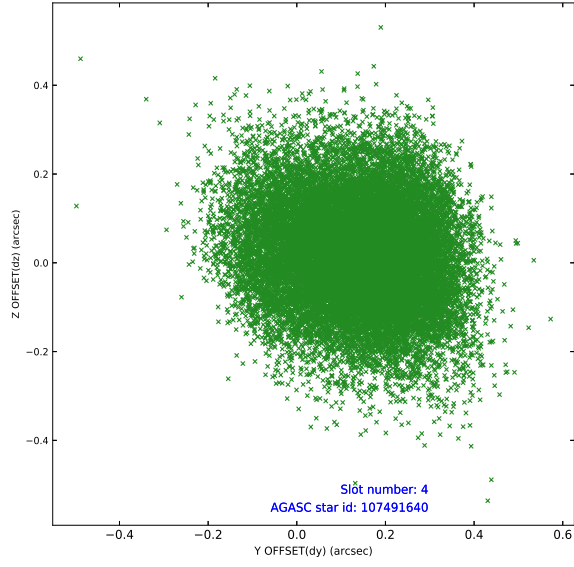
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	10214	1.000	0.130	-0.114	0.014	0.025	0.000000	0.000000	-773.93	-1742
1	FID		ACIS-S-4	7.22	10214	1.000	0.077	-0.032	0.007	0.016	0.000000	0.000000	2139.58	165
2	FID		ACIS-S-5	7.21	10213	1.000	-0.239	0.156	0.013	0.022	0.000000	0.000000	-1826.84	159
3	GUIDE	used	107479264	8.85	20420	1.000	-0.335	-0.224	0.147	0.250	142.772854	8.692324	469.32	1233
4	GUIDE	used	107491640	8.98	20419	1.000	0.151	0.017	0.189	0.296	142.816148	8.056486	-1521.28	94
5	GUIDE	used	107623072	9.20	20393	1.000	0.429	0.166	0.154	0.261	143.239017	8.173662	-482.84	-1075
6	GUIDE	used	107480352	8.68	20413	1.000	-0.142	-0.291	0.132	0.230	142.973130	9.188648	2387.69	1375
7	GUIDE	used	107621176	6.41	20427	1.000	-0.088	0.335	0.157	0.262	143.672756	8.187455	240.42	-2442

2.4 Star Slots

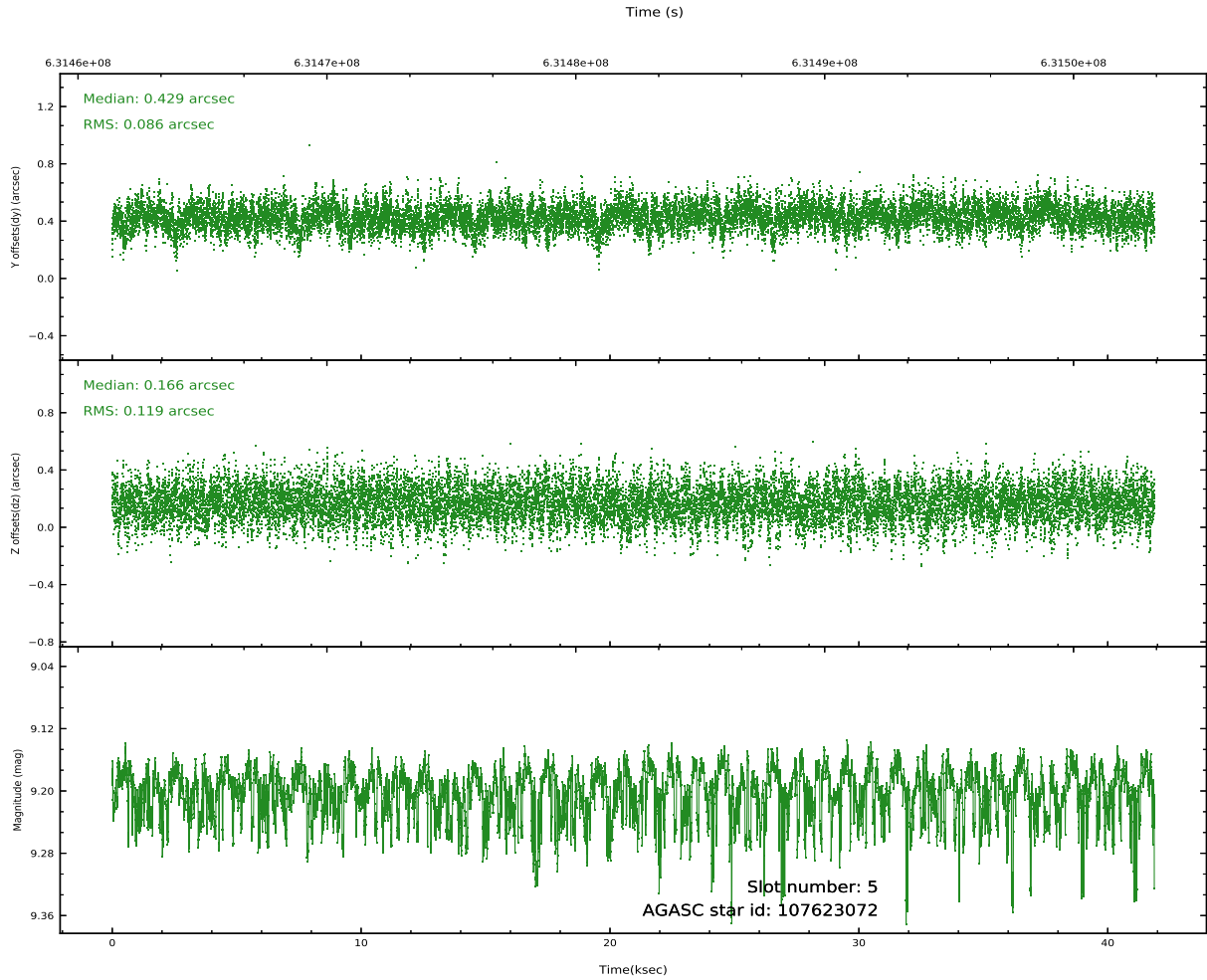
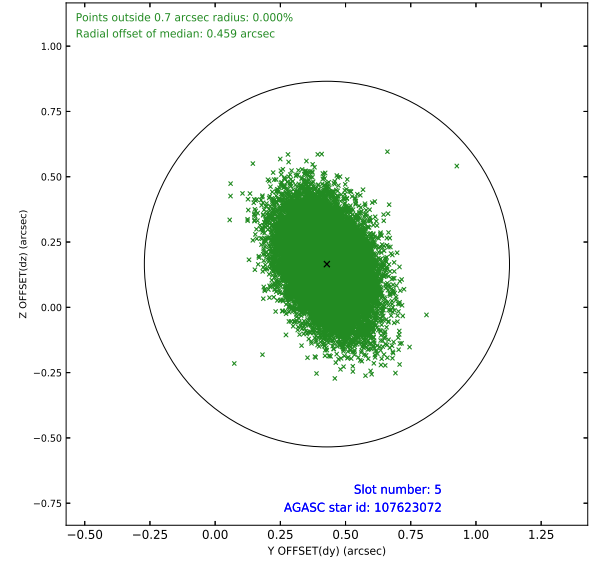
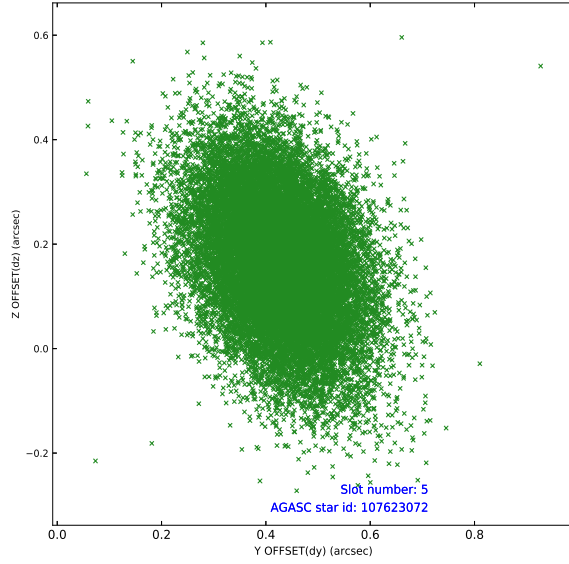
2.4.1 Slot 3



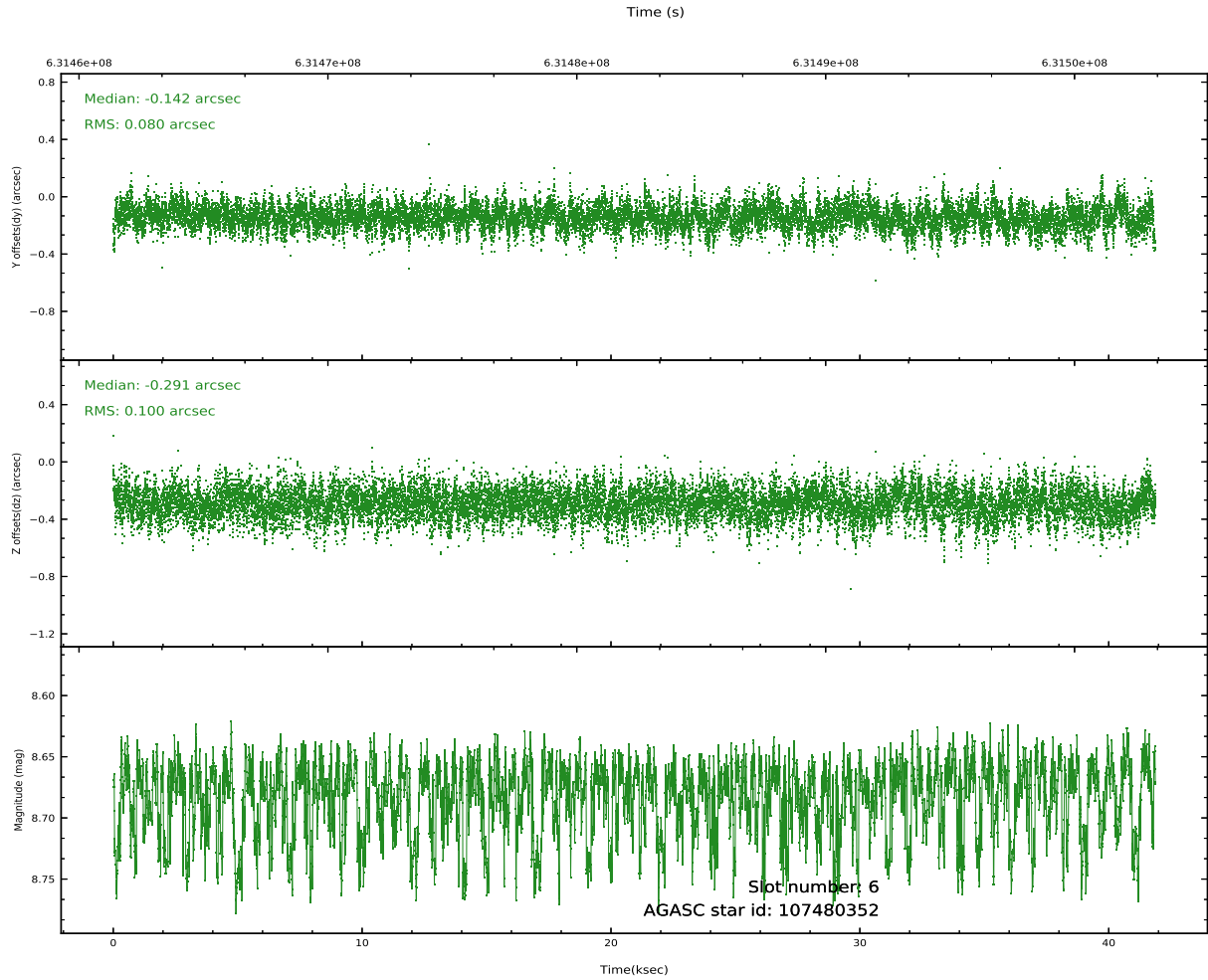
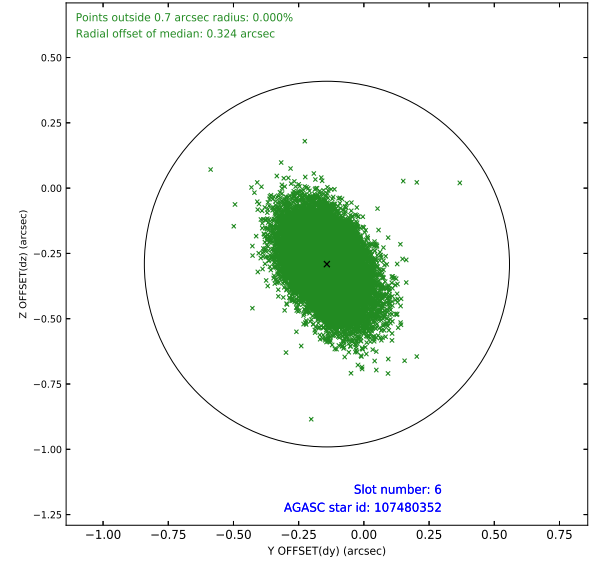
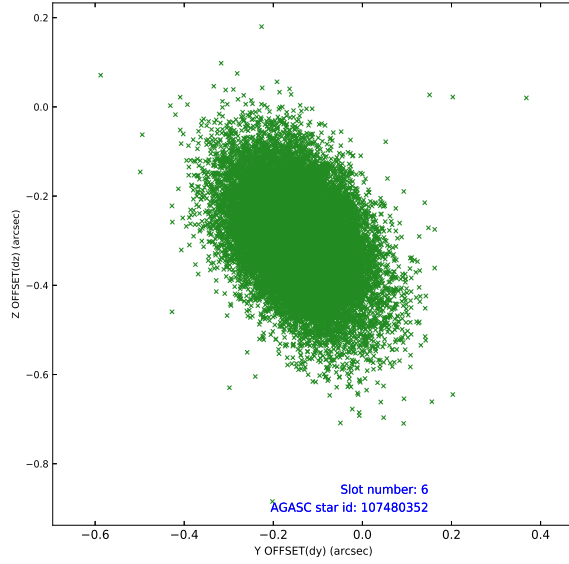
2.4.2 Slot 4



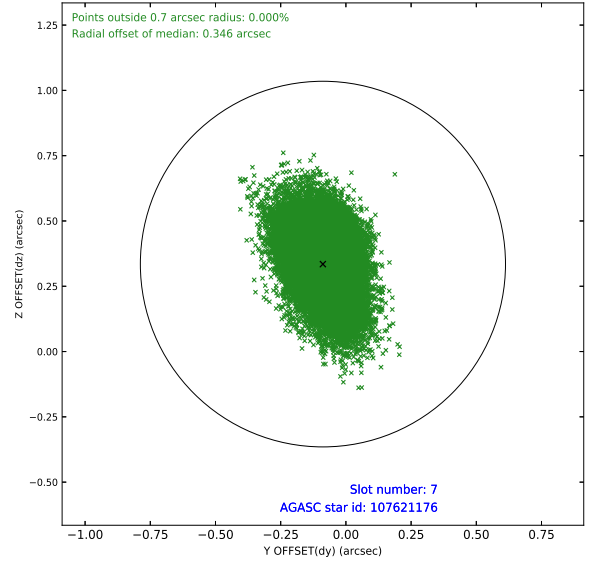
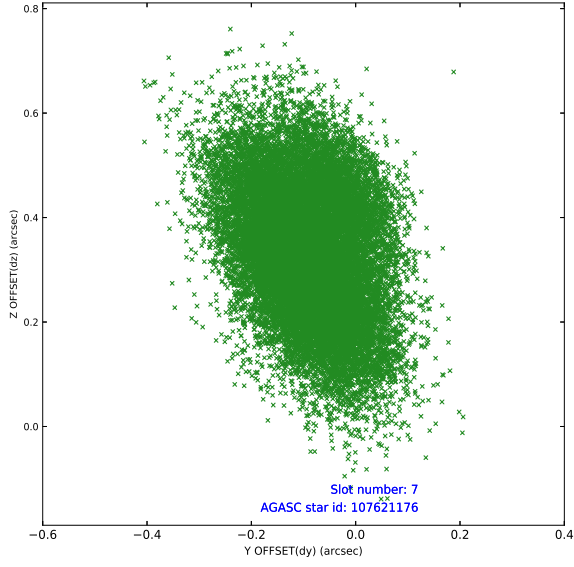
2.4.3 Slot 5



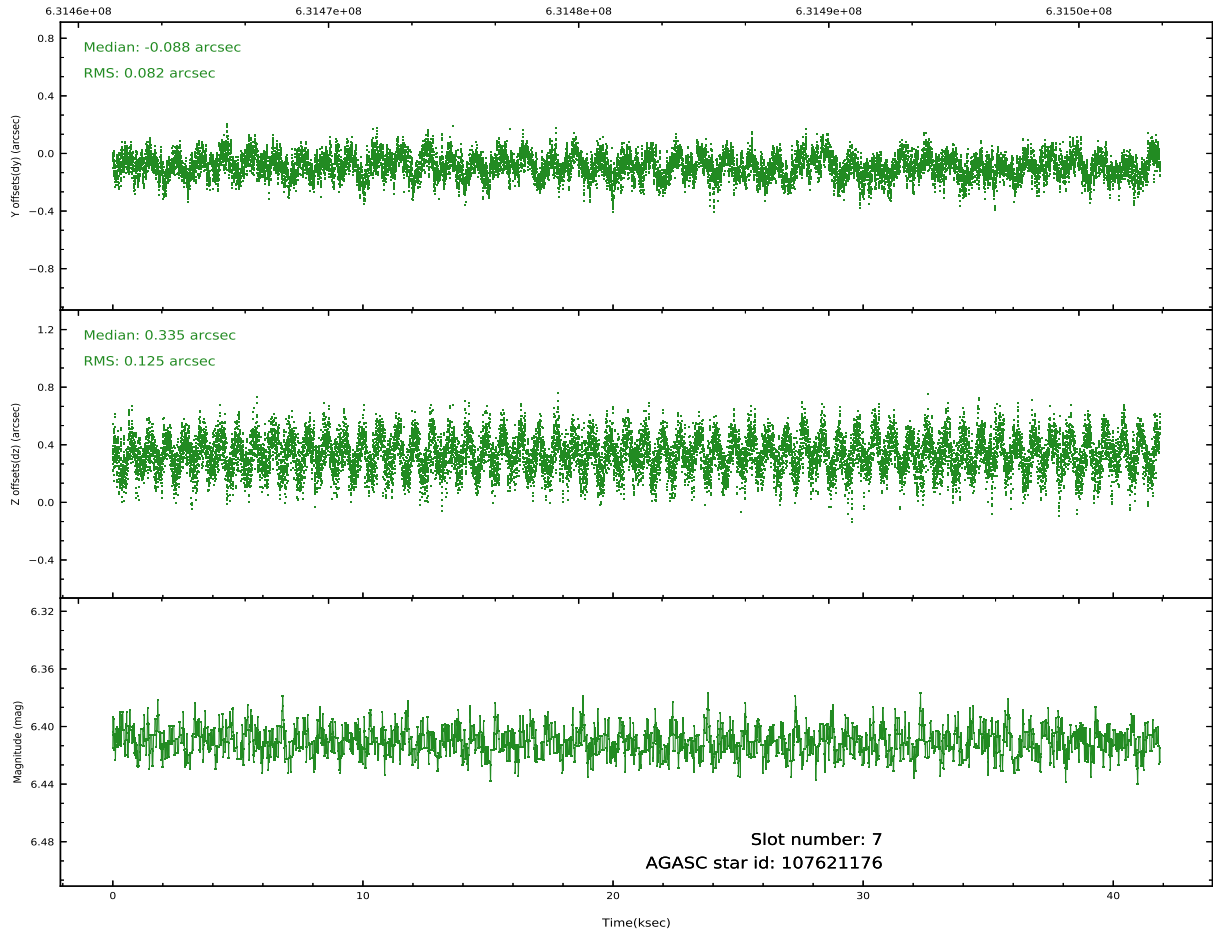
2.4.4 Slot 6



2.4.5 Slot 7

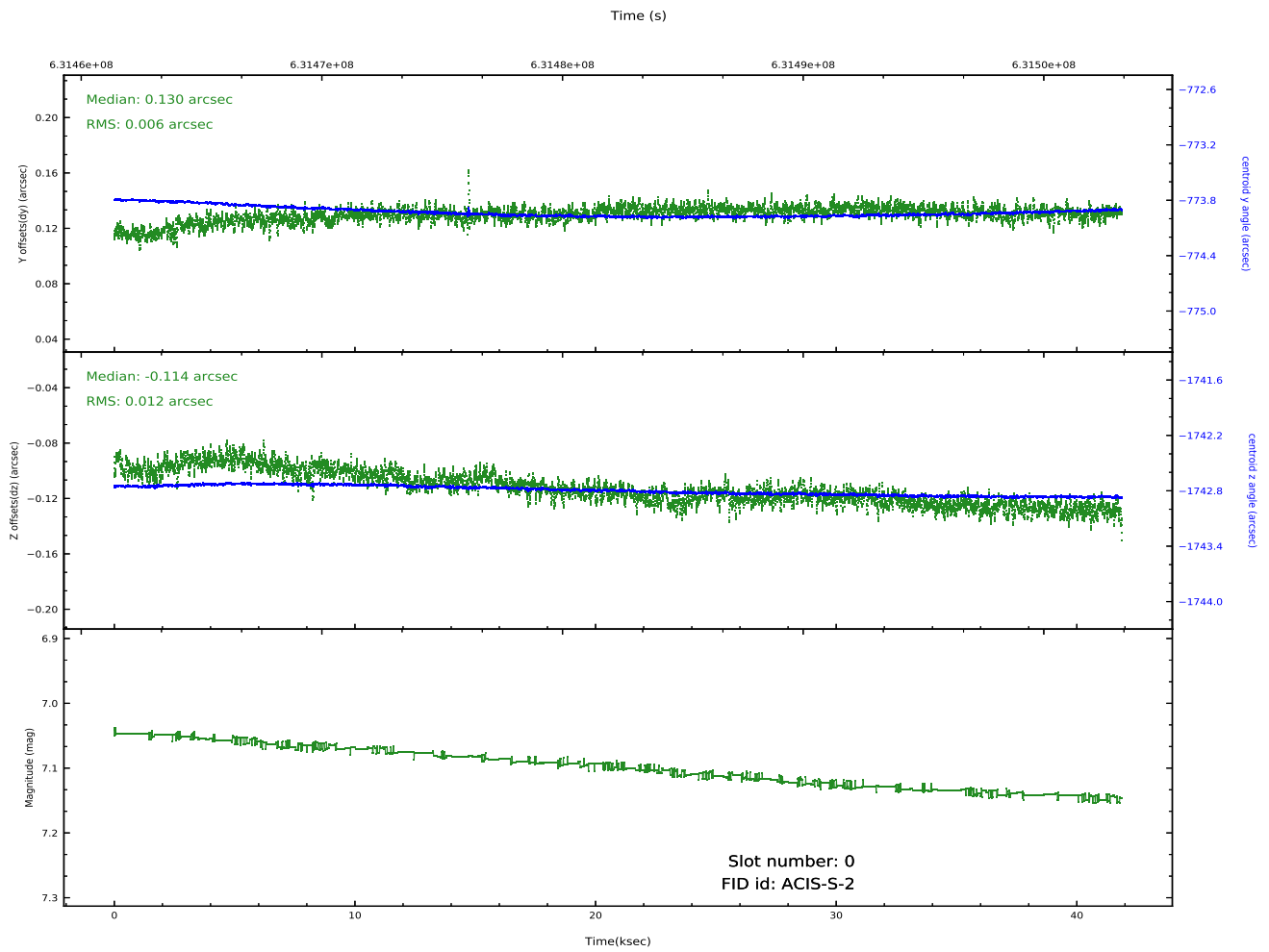
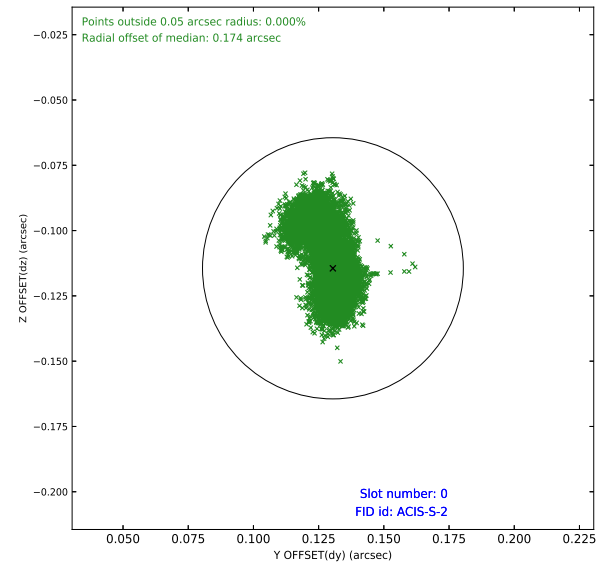
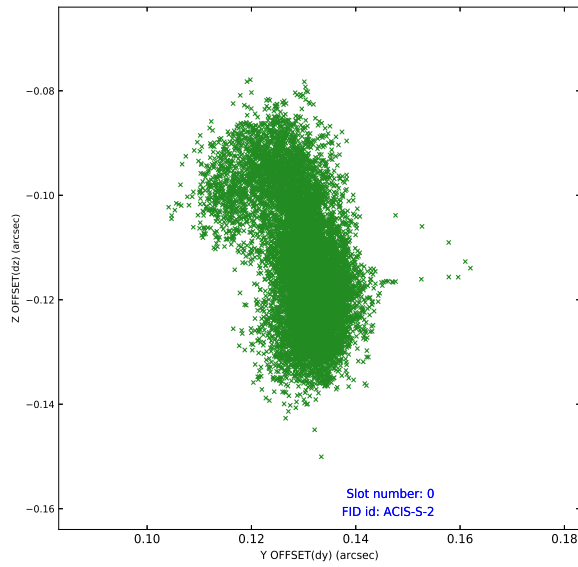


Time (s)

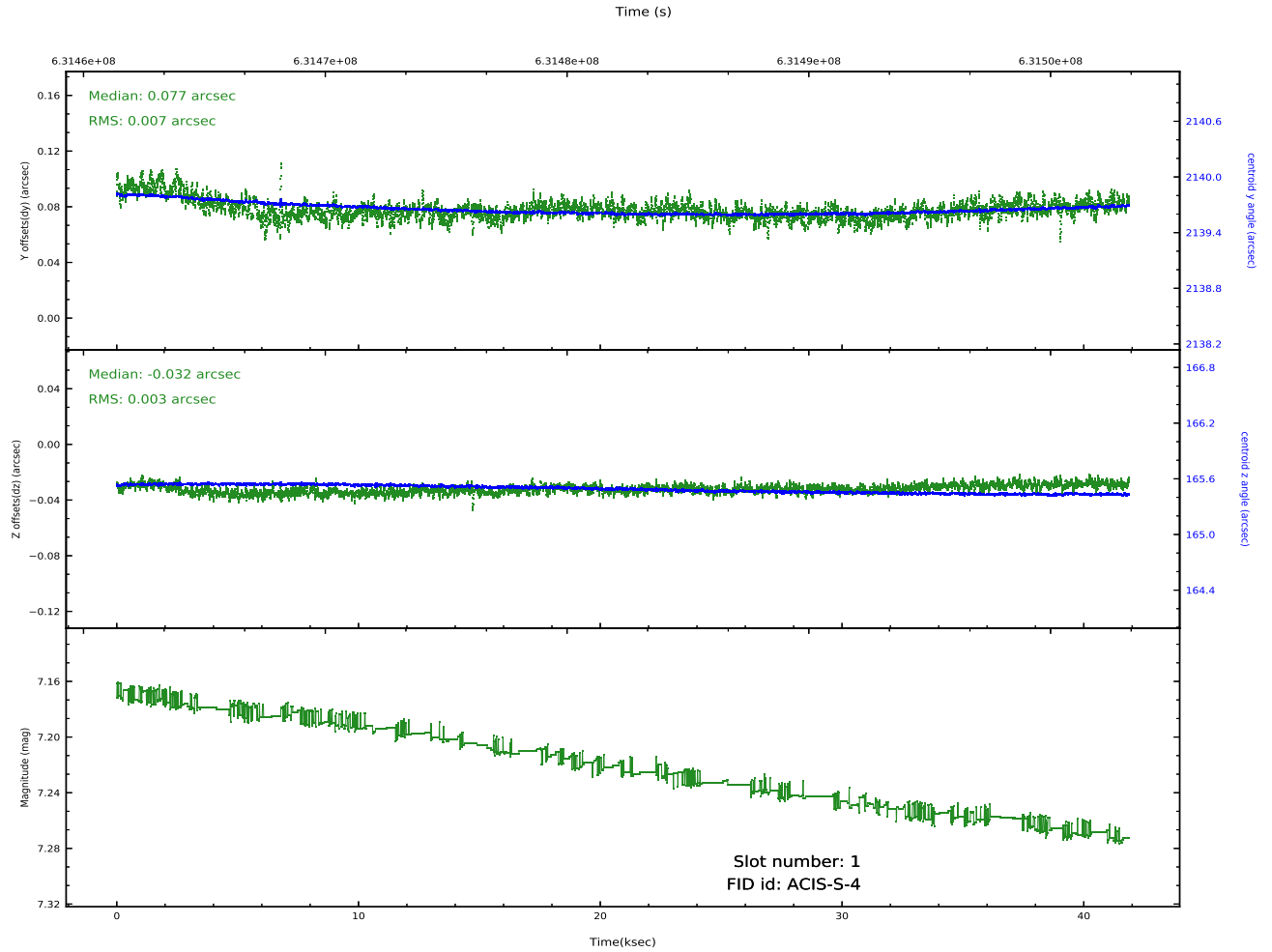
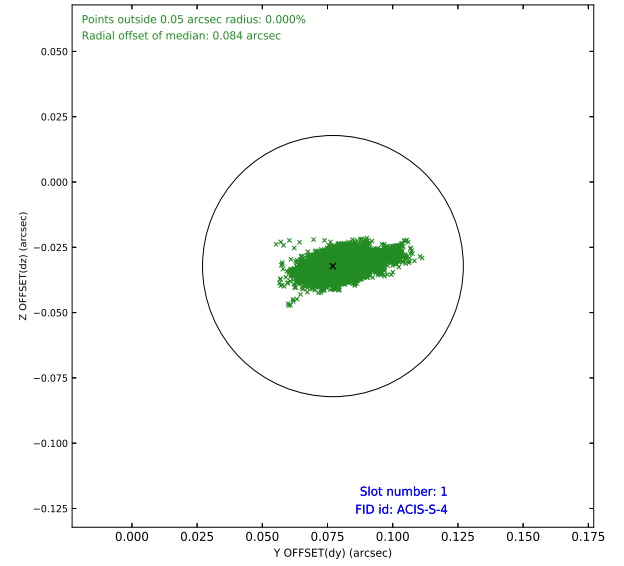
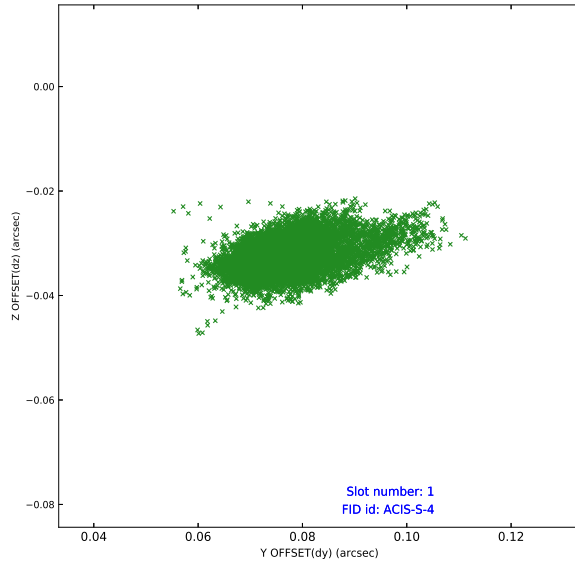


2.5 FID Slots

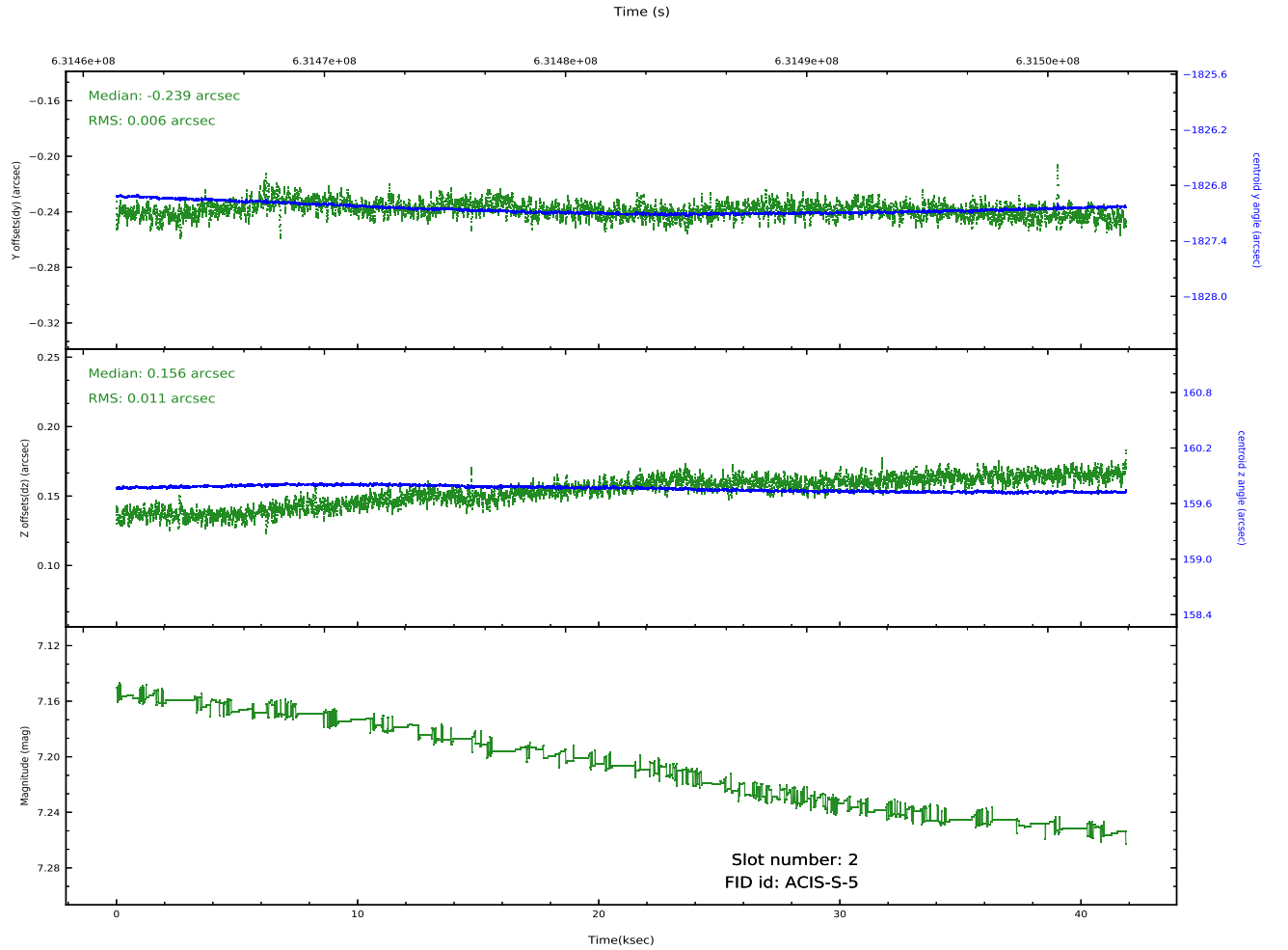
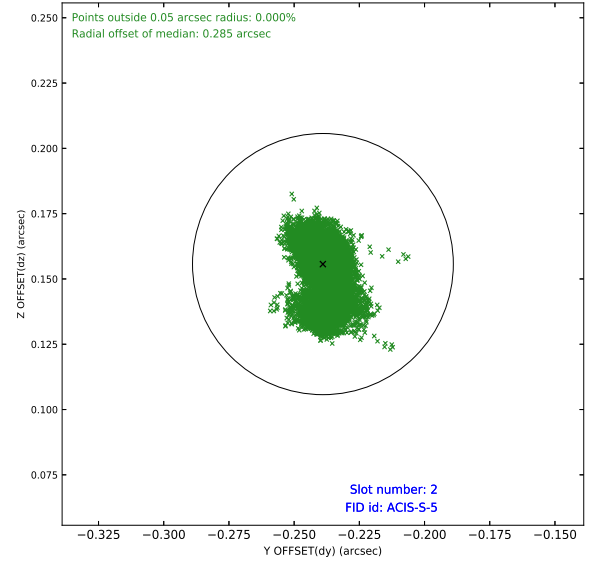
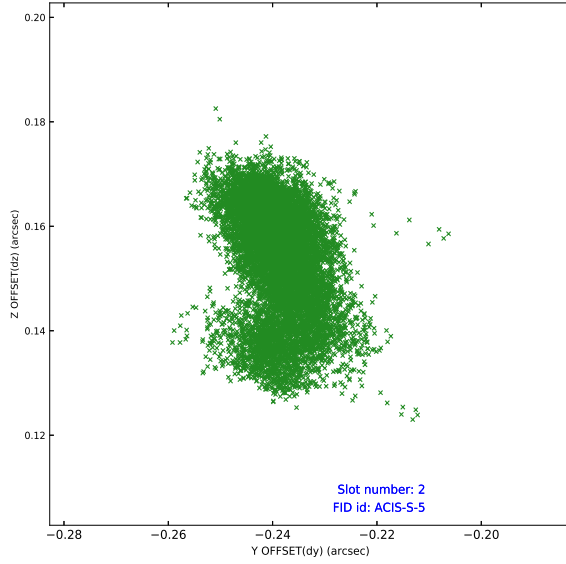
2.5.1 Slot 0



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)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.763200321317

A.2 Comments

One optional chip was dropped.