

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20354 - L2 Version 2
Chandra X-Ray Center

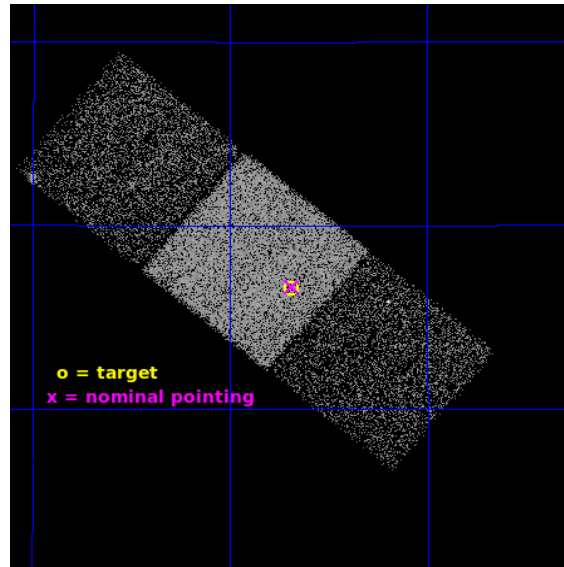
L2 Processing Date : Oct 25 2020

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1 Front

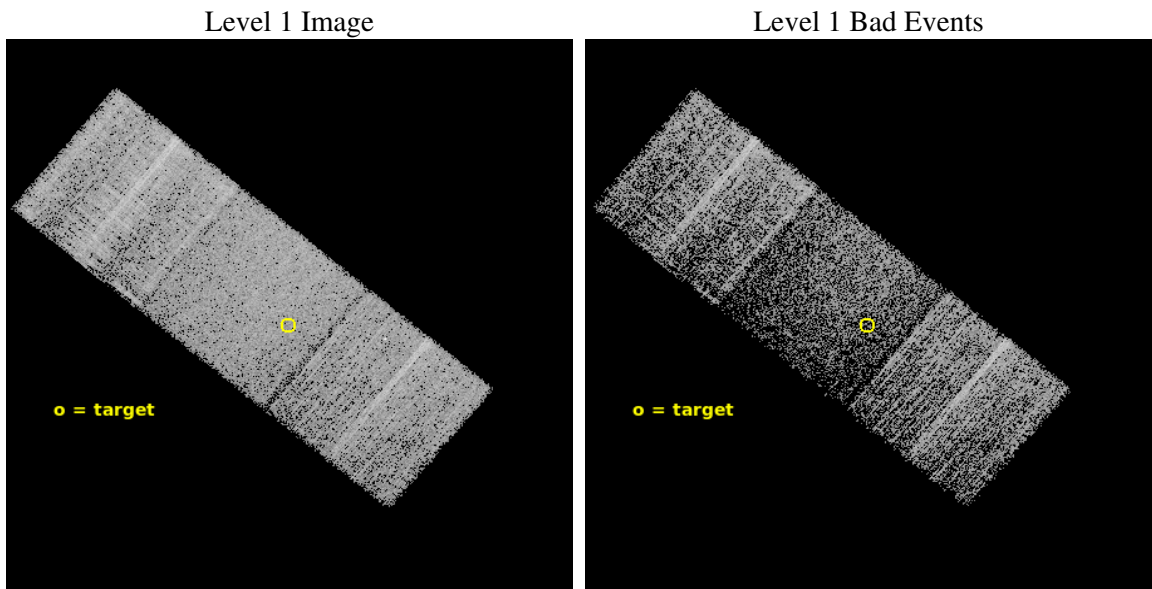
seq_num	601420	Sequence number
obs_id	20354	Observation id
title	X-ray Ionized Nebulae in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J115441.22+463636.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.671667	Observer's specified target RA [deg]
dec_targ	46.610083	Observer's specified target Dec [deg]
ra_nom	178.67150588946	Nominal RA [deg]
dec_nom	46.611394382267	Nominal Dec [deg]
roll_nom	219.71455375746	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8074.9796265364	Sum of GTIs [s]
livetime	7969.4740730022	Livetime [s]
ontime6	8074.9385865927	Sum of GTIs [s]
ontime7	8074.9796265364	Sum of GTIs [s]
ontime8	8074.8975465298	Sum of GTIs [s]
l2events	39162	Number of level 2 events



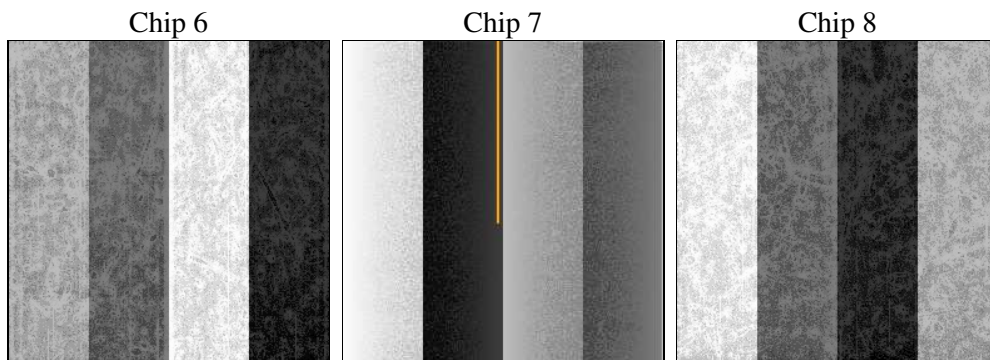
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8074.9796265364	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	8074.9385865927	Sum of GTIs [s]
date	2020-10-25T16:00:38	Date and time of file creation	ontime7	8074.9796265364	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	8074.8975465298	Sum of GTIs [s]
			l1events	190414	Number of level 1 events

2.1.4 Events

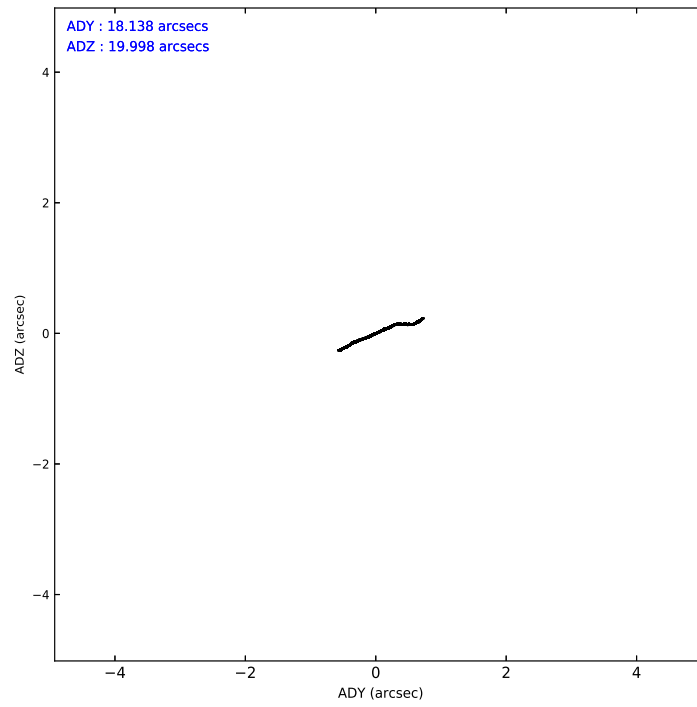
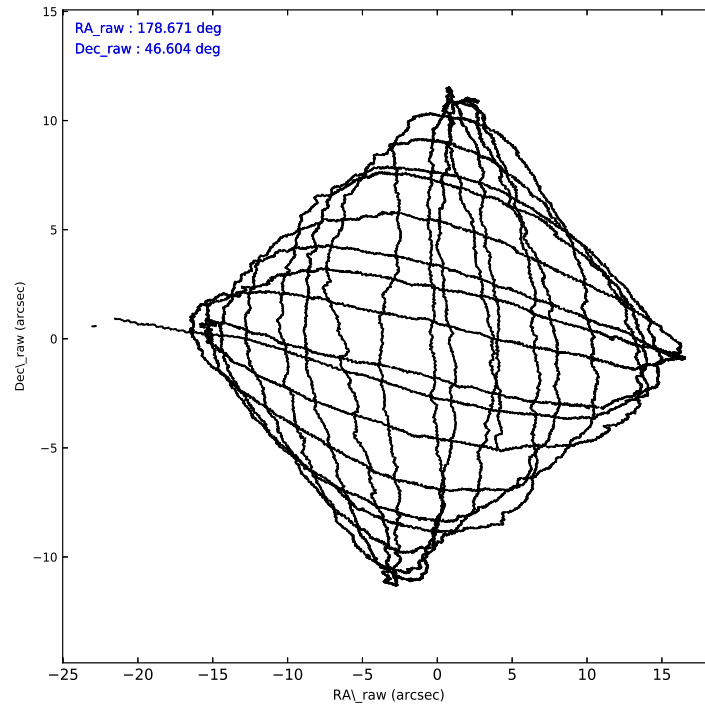
	ccd 6	ccd 7	ccd 8
level 1 events	56062	60424	73928
rejected events	49666	32079	53884
rejected %	88%	53%	72%

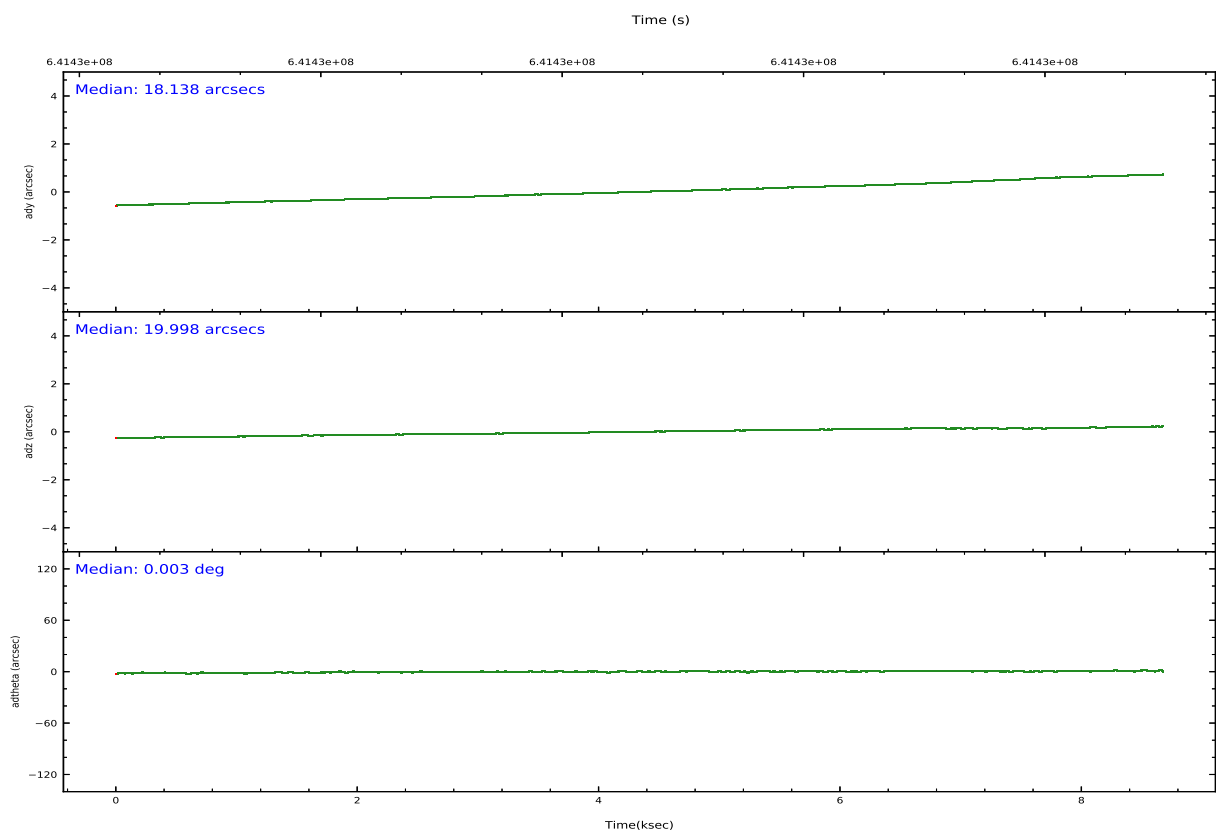
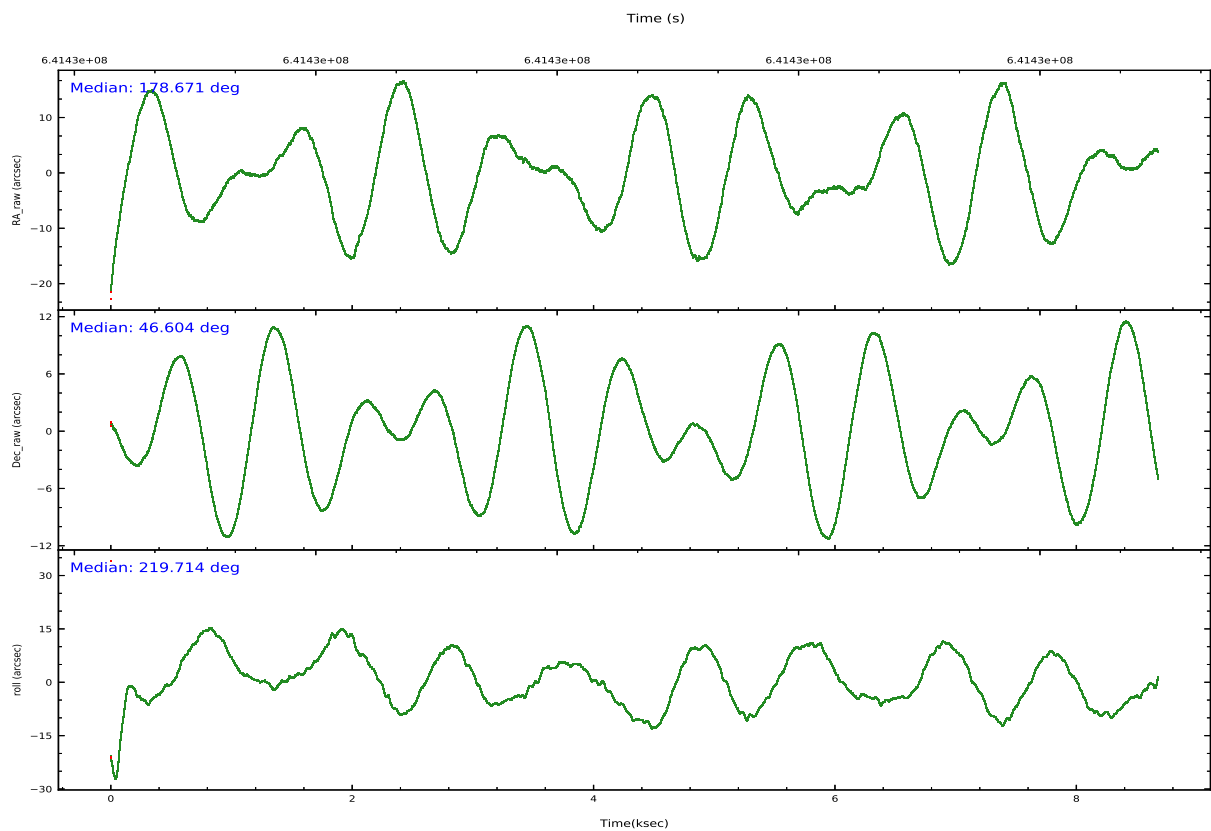
	ccd 6	ccd 7	ccd 8
grade 0 events	2174	2547	5448
	3%	4%	7%
grade 1 events	28	90	58
	0%	0%	0%
grade 2 events	1559	6275	4883
	2%	10%	6%
grade 3 events	589	2431	2057
	1%	4%	2%
grade 4 events	663	2321	1979
	1%	3%	2%
grade 5 events	2241	6109	3534
	3%	10%	4%
grade 6 events	1413	14793	5680
	2%	24%	7%
grade 7 events	47395	25858	50289
	84%	42%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	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	178.684331	178.67150588946	CCD I2 on	N	N
[deg] Pointing Dec	46.629435	46.611394382267	CCD I3 on	N	N
[deg] Pointing Roll	219.555029	219.71455375746	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	641426980.184000	641425912.65759	CCD S5 on	N	N
Observation start date	2018-04-29T22:08:31	2018-04-29T21:51:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	641434980.184000	641435757.78317	On-chip summing requested	N	N
Observation end date	2018-04-30T00:21:51	2018-04-30T00:35:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



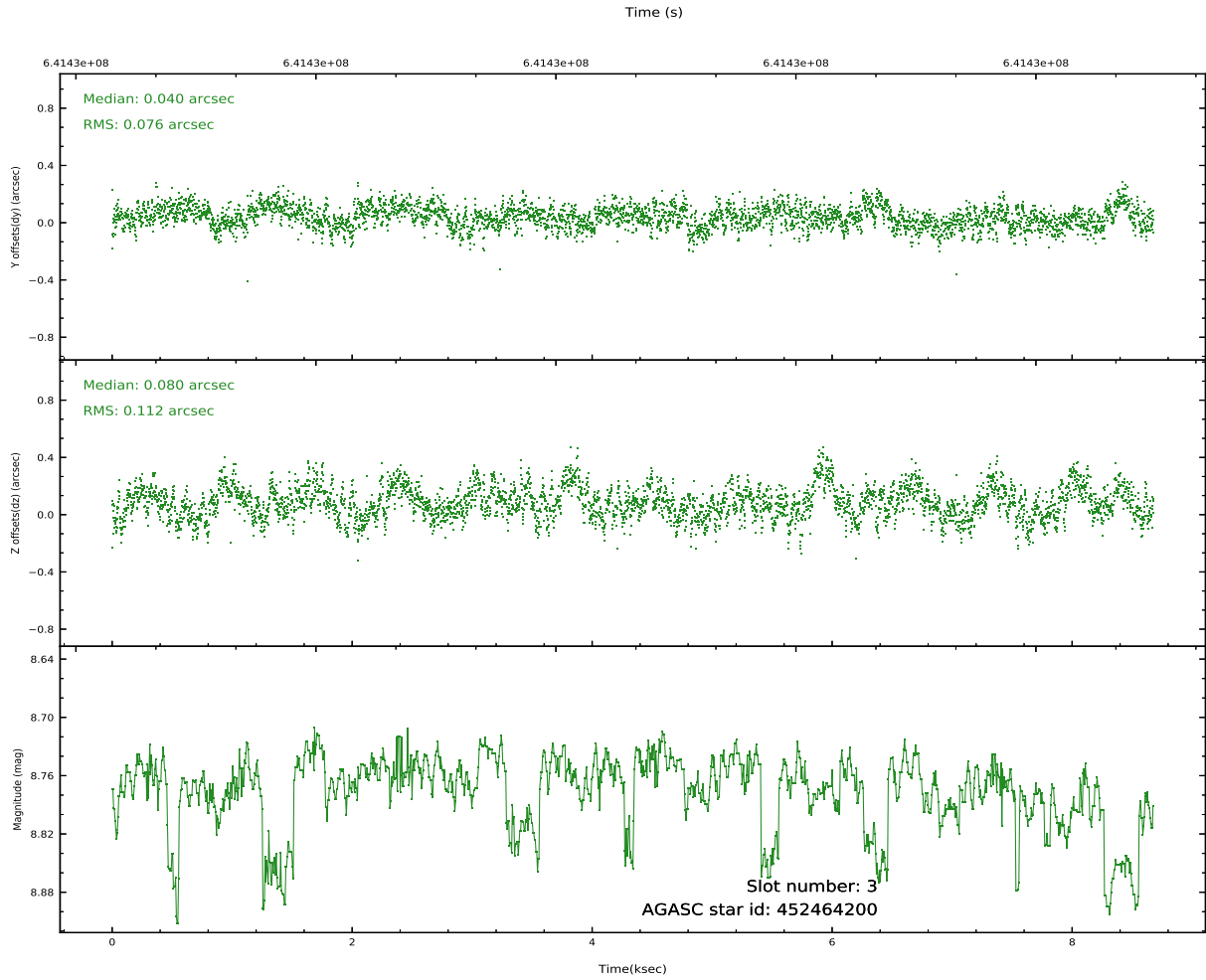
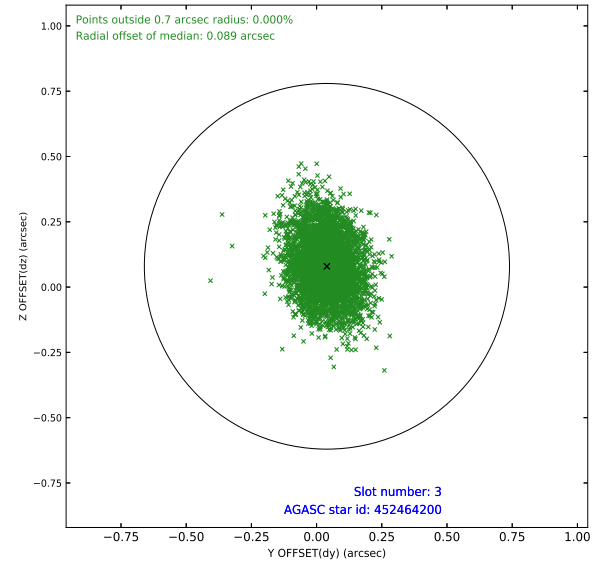
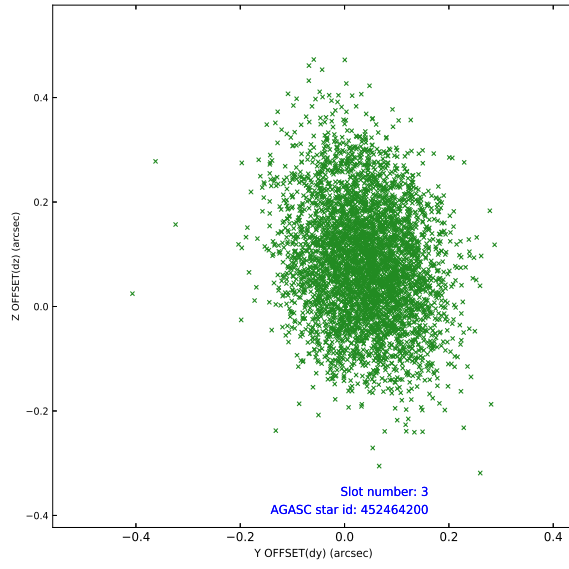


Slot Statistics

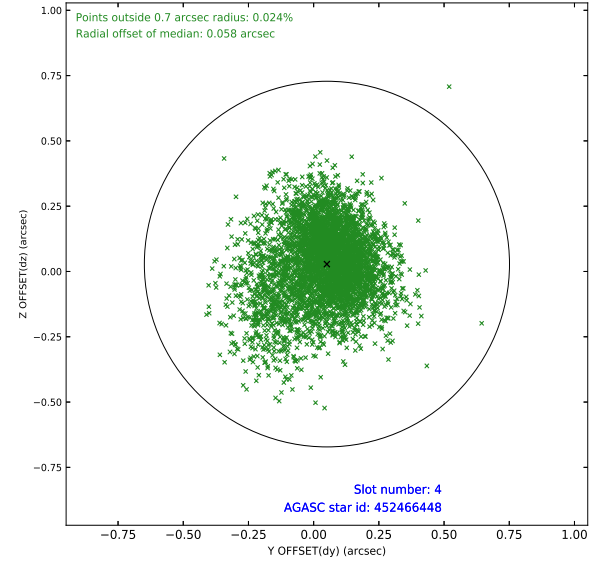
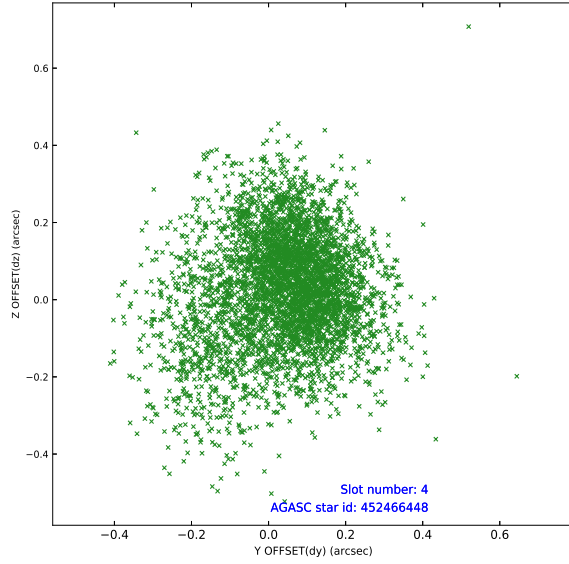
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2116	1.000	0.102	-0.111	0.010	0.019	0.000000	0.000000	-771.33	-1741
1	FID		ACIS-S-4	7.20	2117	1.000	0.162	-0.019	0.011	0.018	0.000000	0.000000	2141.94	166
2	FID		ACIS-S-5	7.19	2117	1.000	-0.295	0.139	0.007	0.012	0.000000	0.000000	-1823.54	161
3	GUIDE	used	452464200	8.77	4232	1.000	0.040	0.080	0.142	0.232	178.908479	47.257396	-1861.60	-1393
4	GUIDE	used	452466448	9.77	4226	1.000	0.051	0.028	0.203	0.356	178.618704	46.351764	765.28	668
5	GUIDE	used	452466840	9.60	4227	1.000	0.083	-0.082	0.199	0.325	178.370583	46.430718	1055.87	55
6	GUIDE	used	452467808	8.27	4230	1.000	-0.152	0.031	0.128	0.221	179.309070	46.568645	-1055.93	1149
7	GUIDE	used	452468480	7.68	4233	1.000	-0.020	-0.057	0.122	0.206	179.123811	46.697308	-993.40	500

2.4 Star Slots

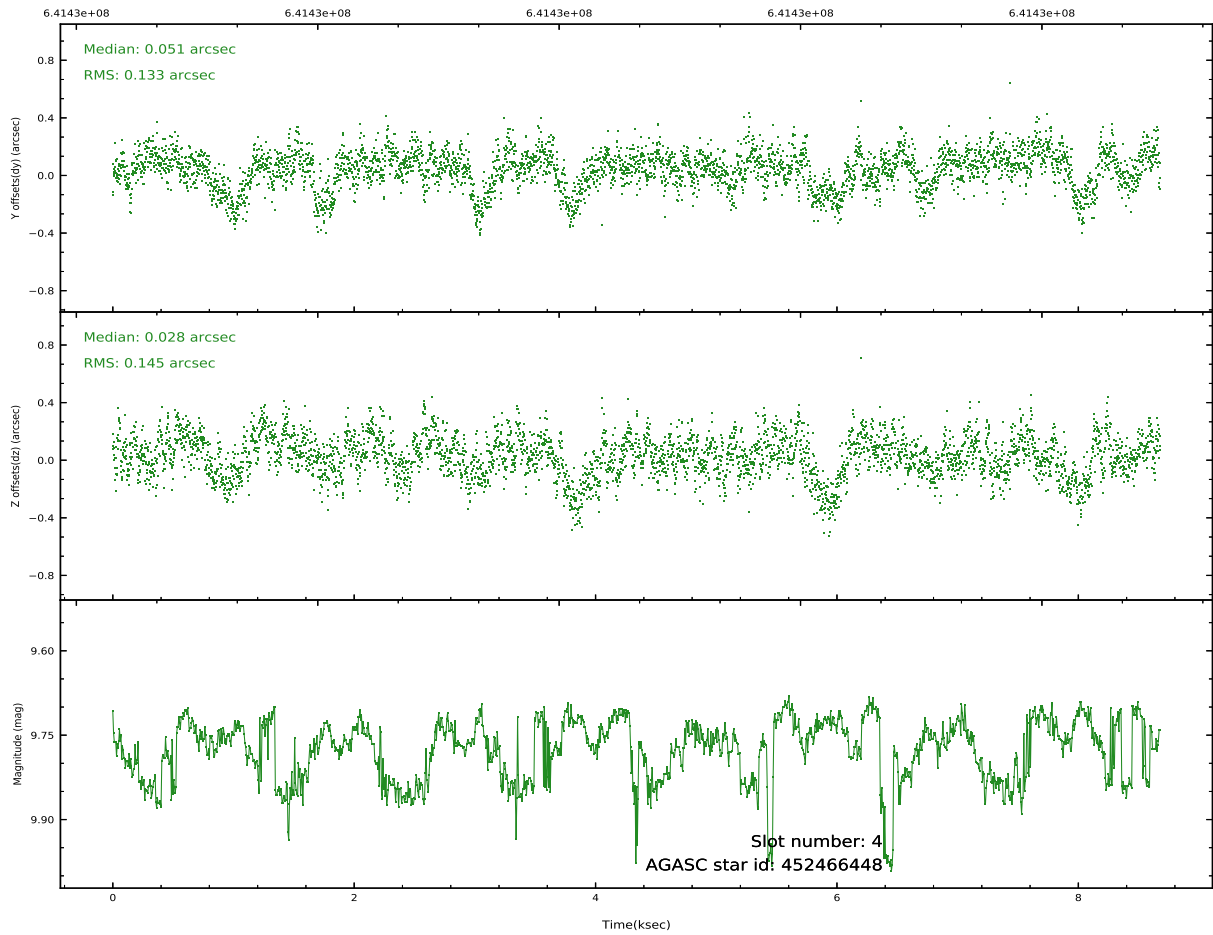
2.4.1 Slot 3



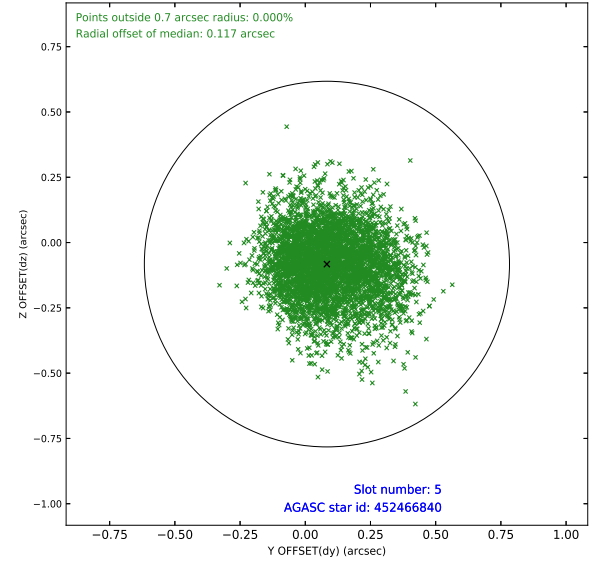
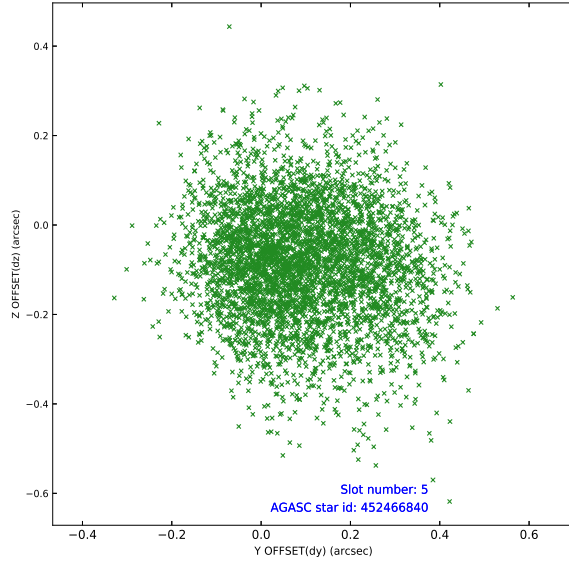
2.4.2 Slot 4



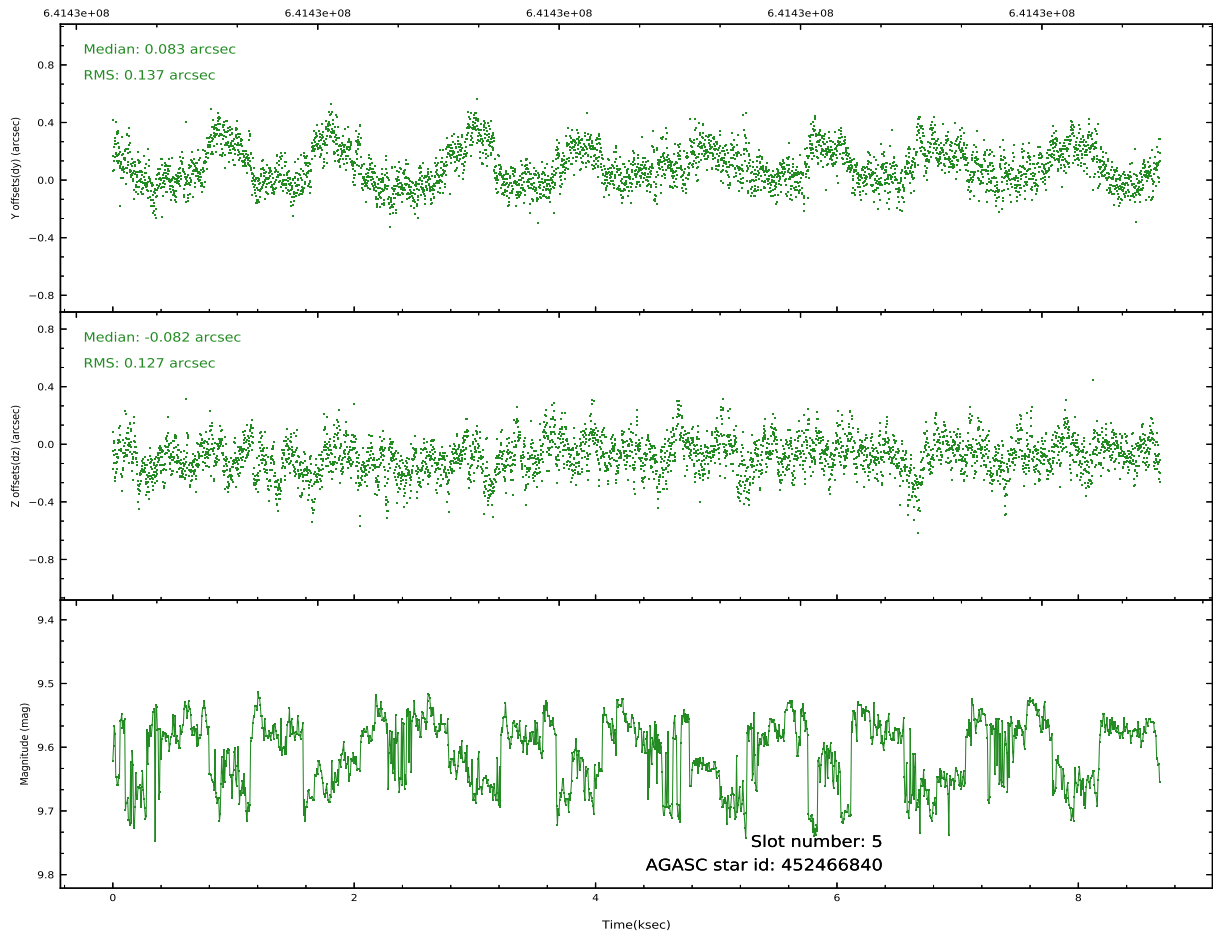
Time (s)



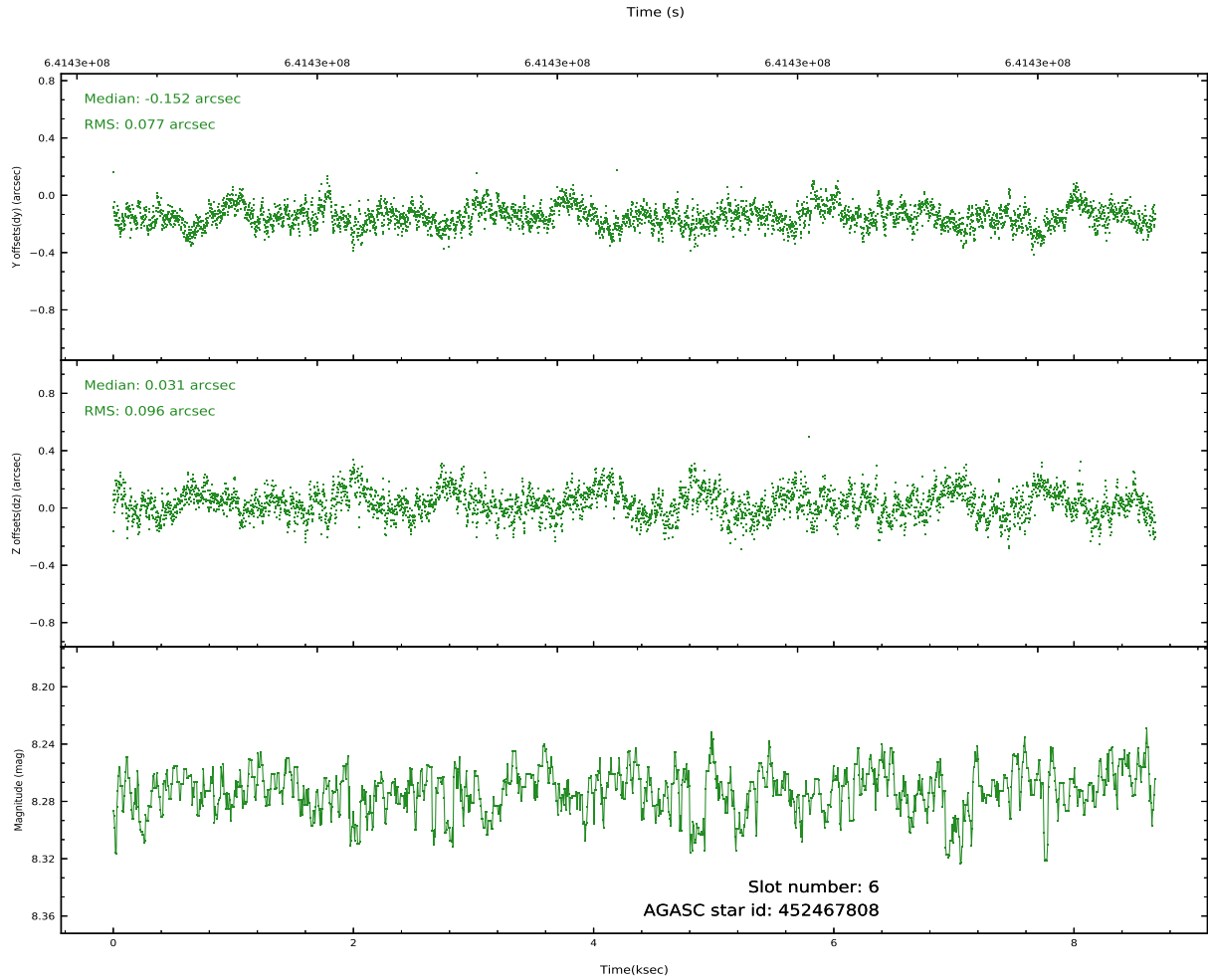
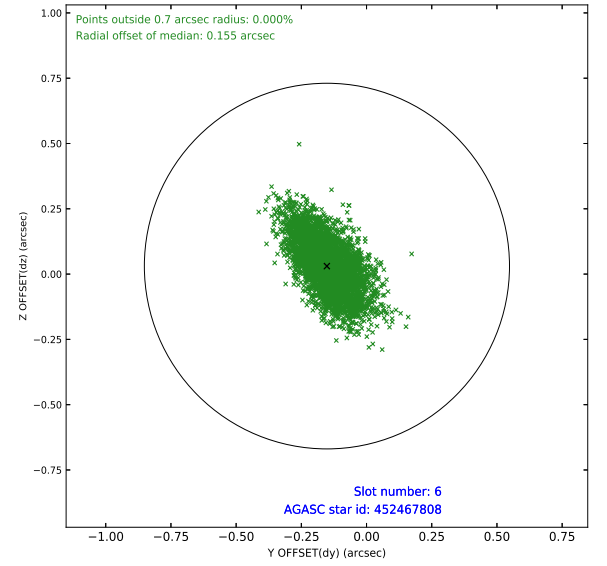
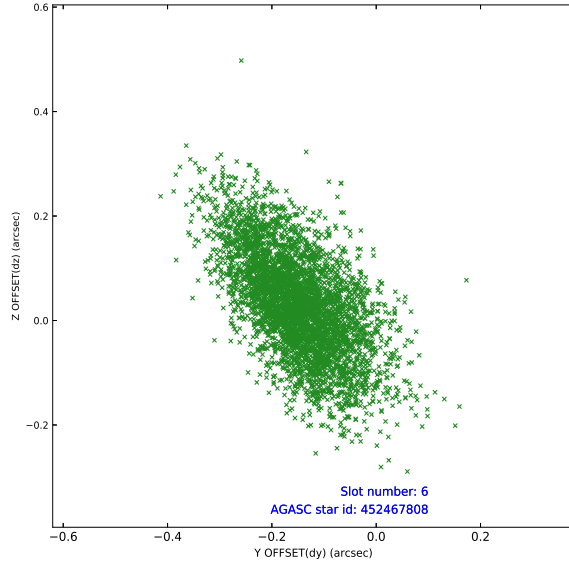
2.4.3 Slot 5



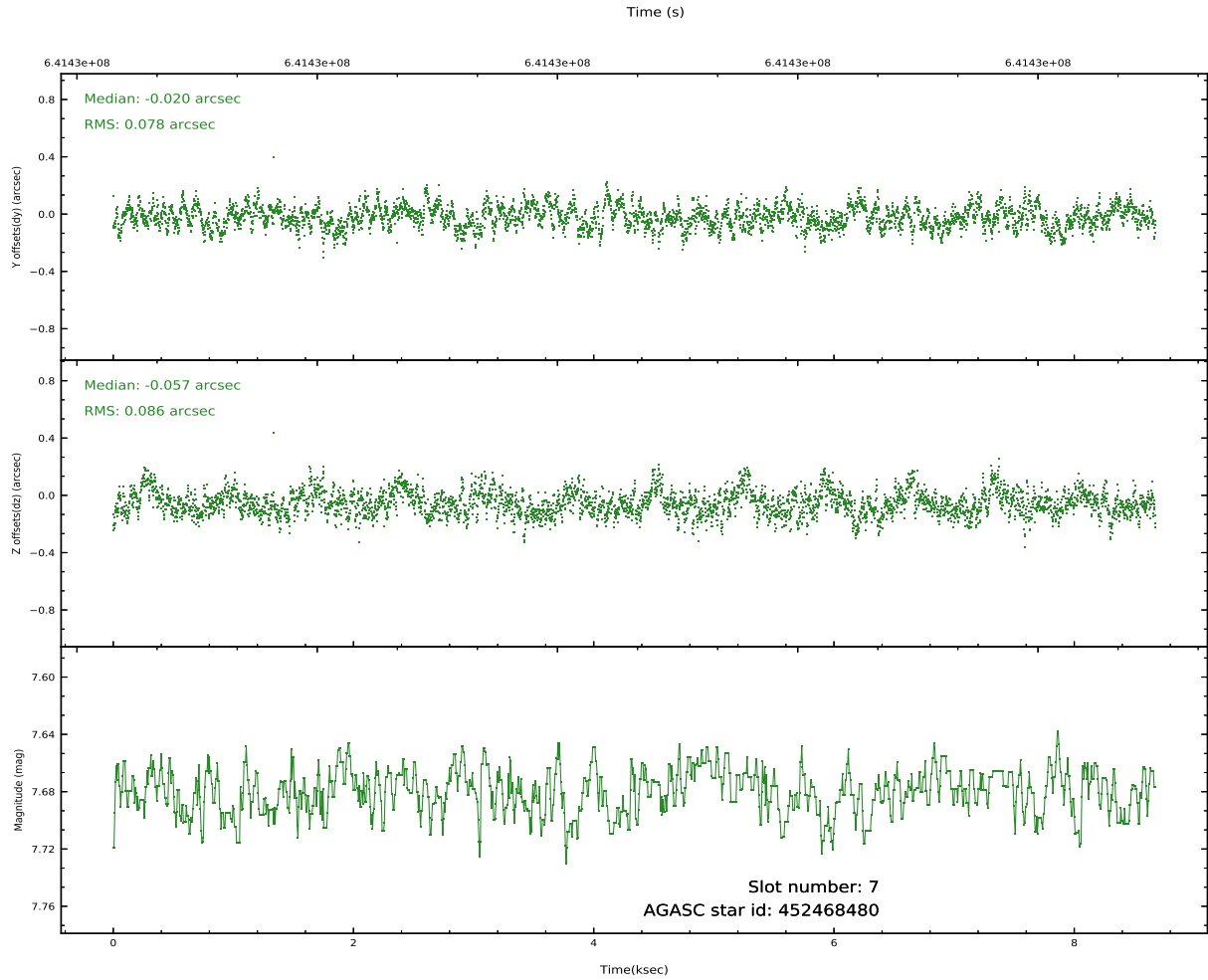
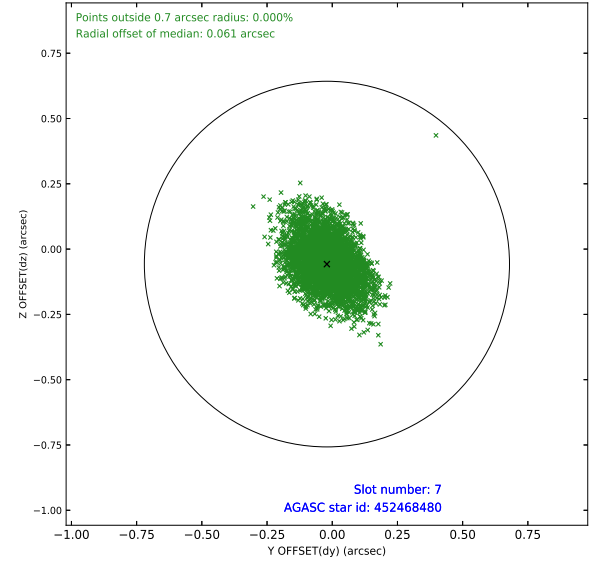
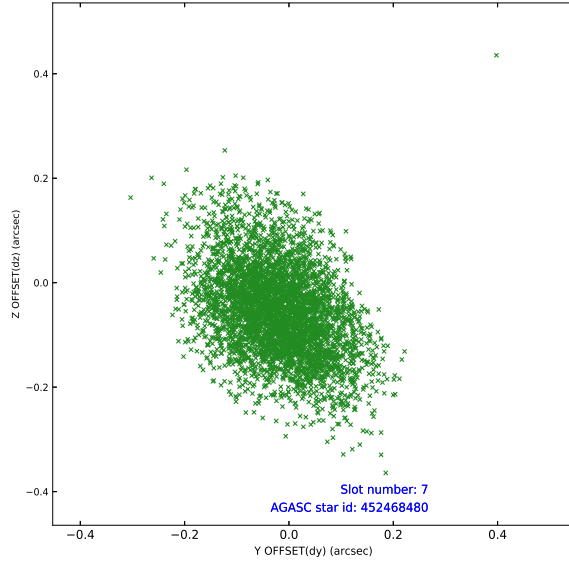
Time (s)



2.4.4 Slot 6

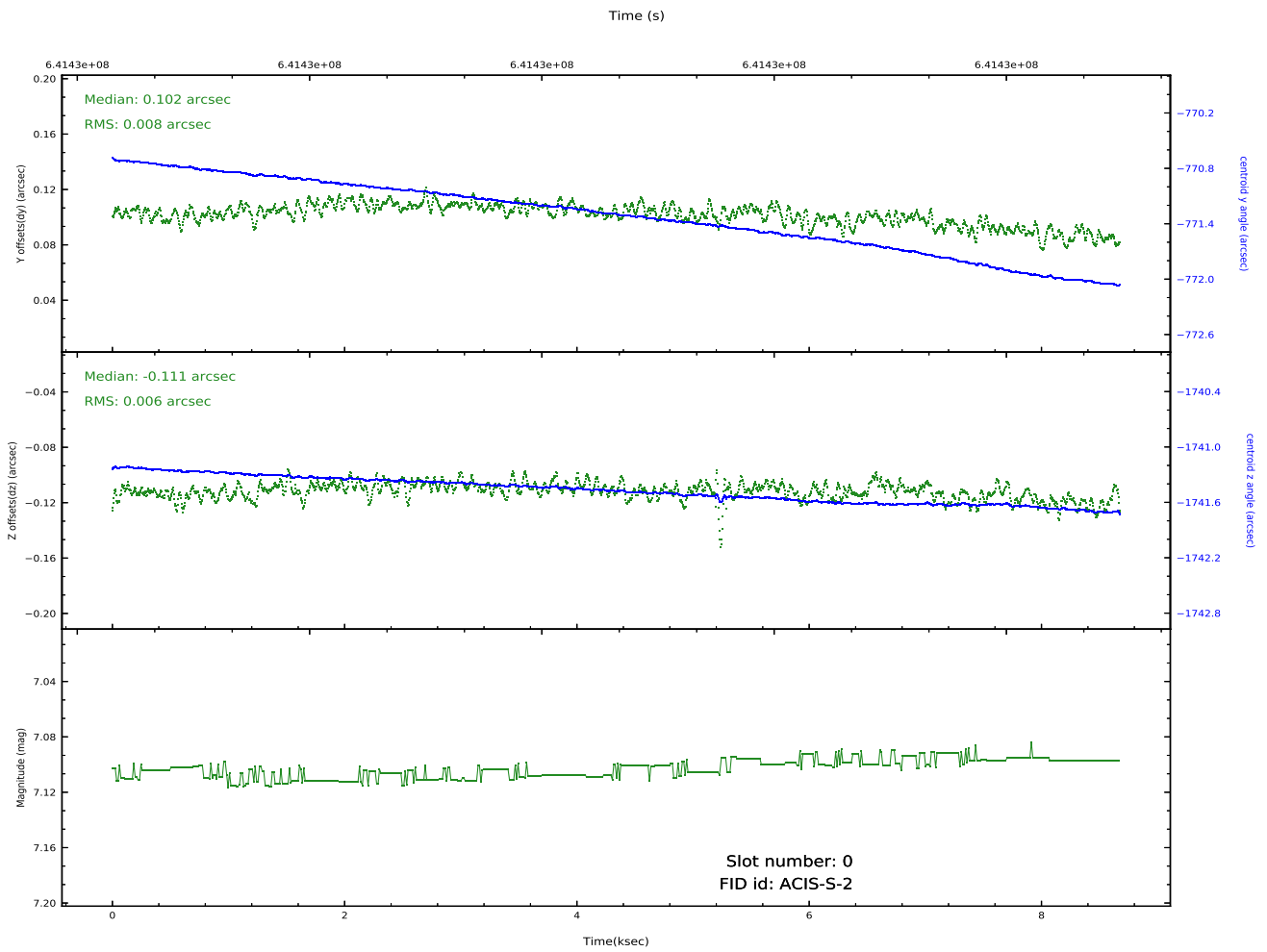
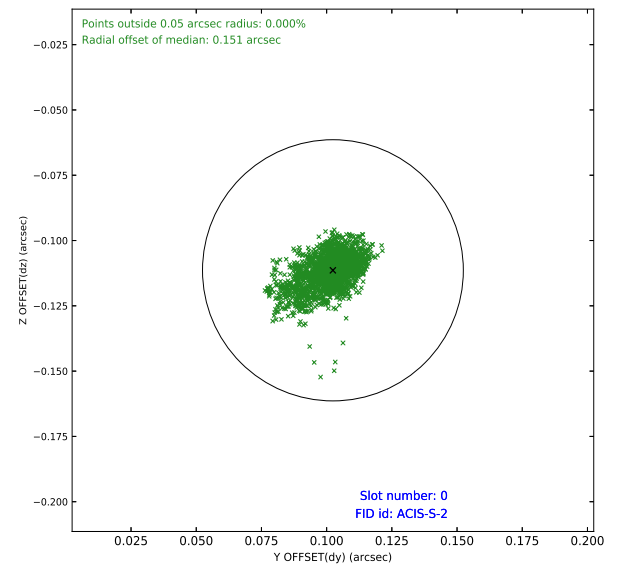
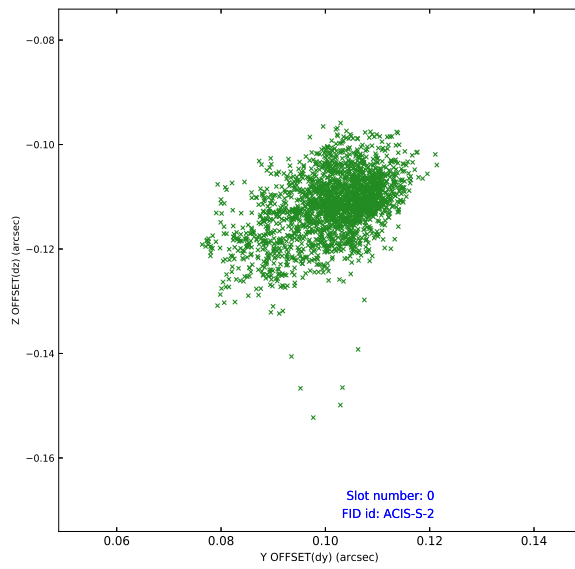


2.4.5 Slot 7

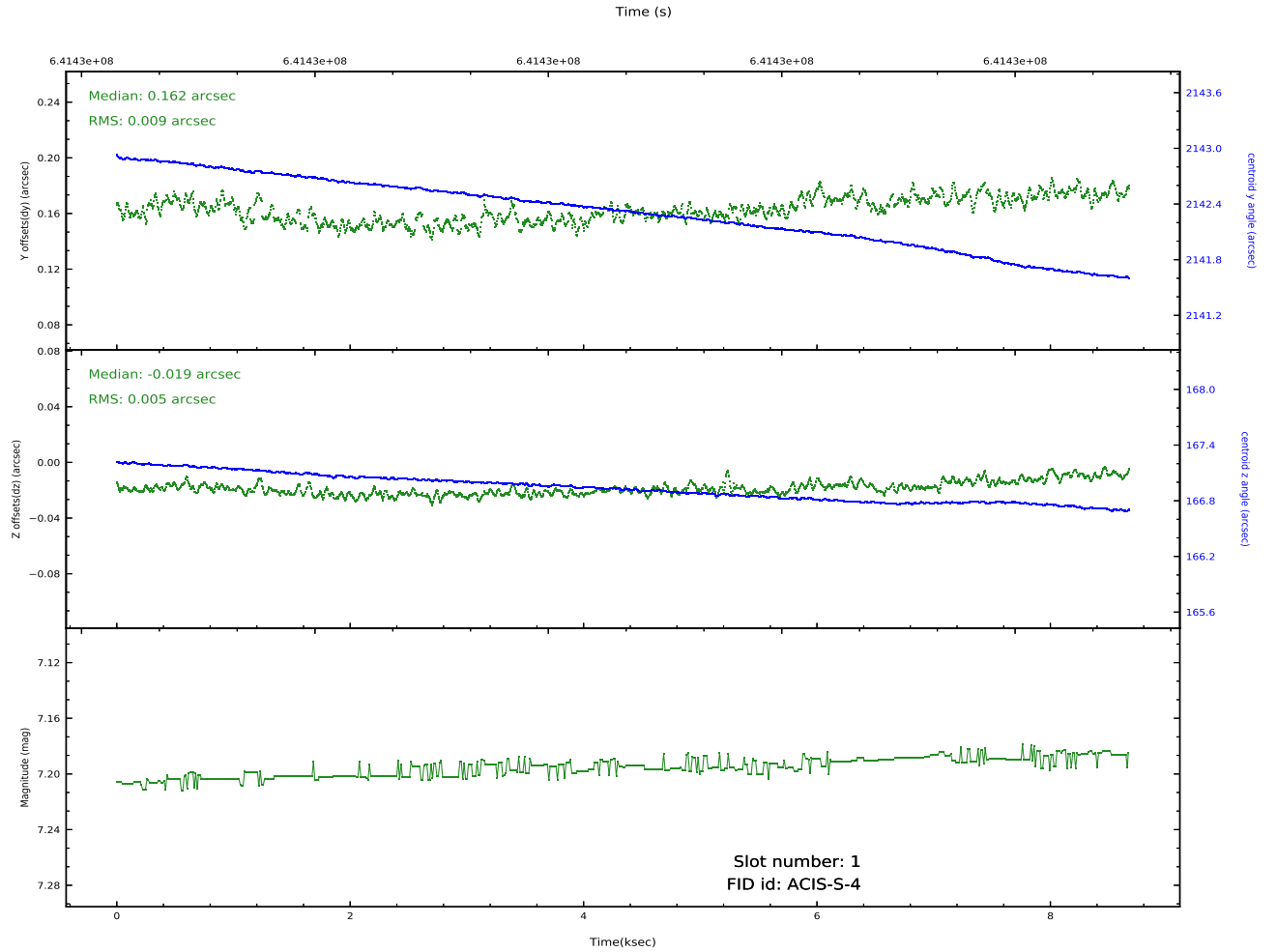
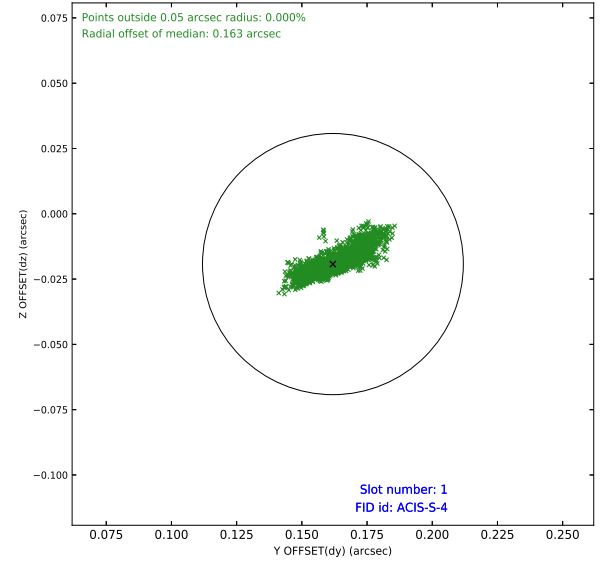
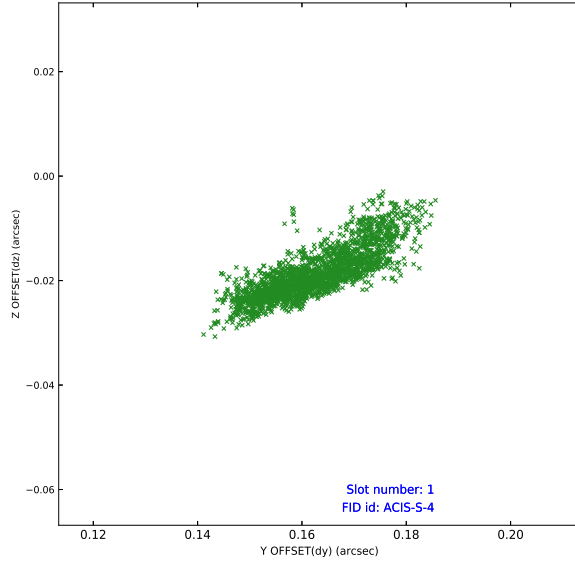


2.5 FID Slots

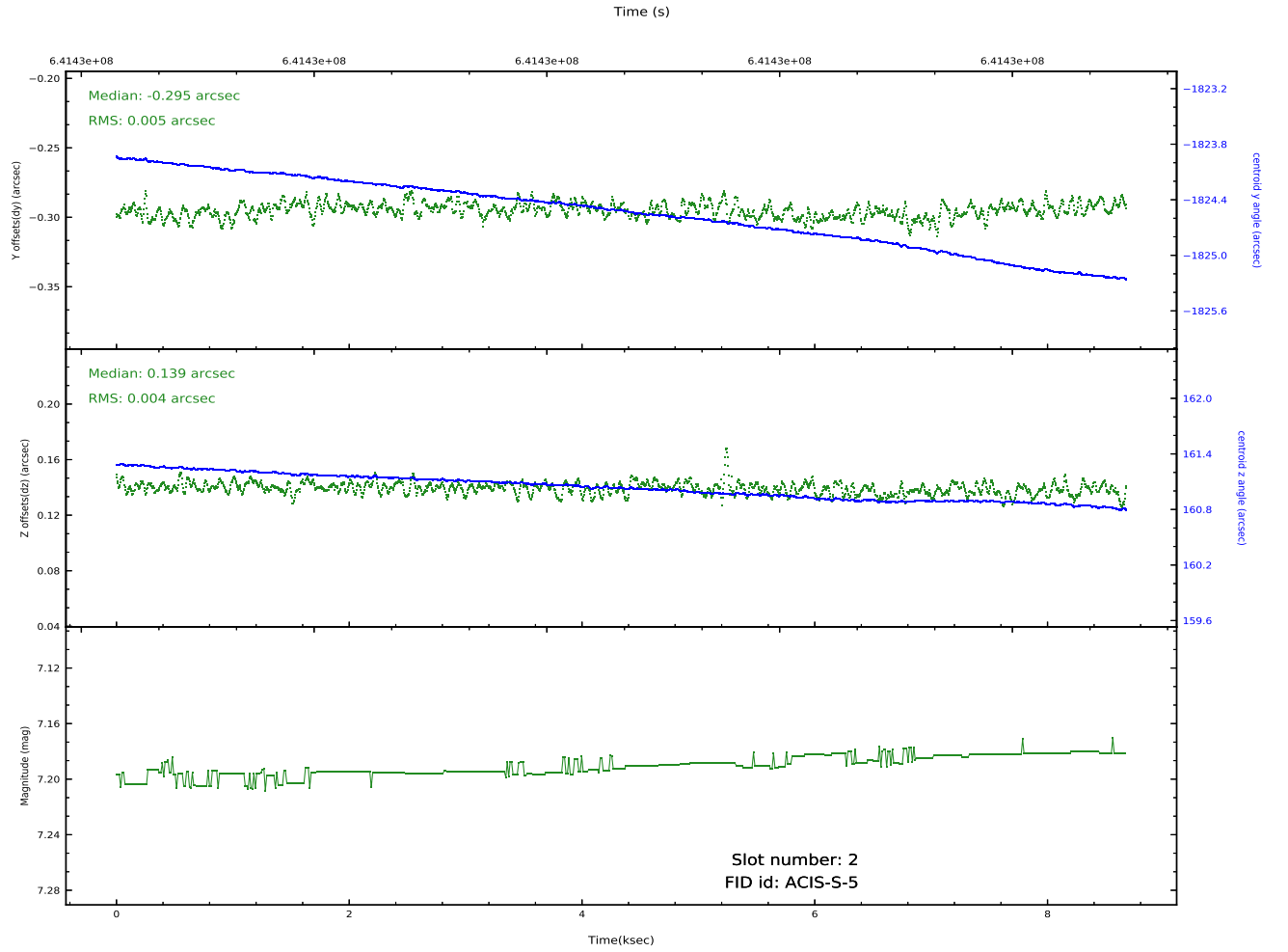
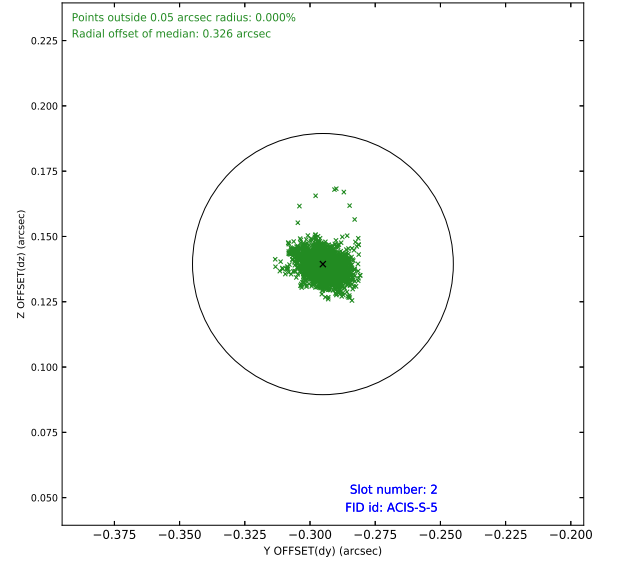
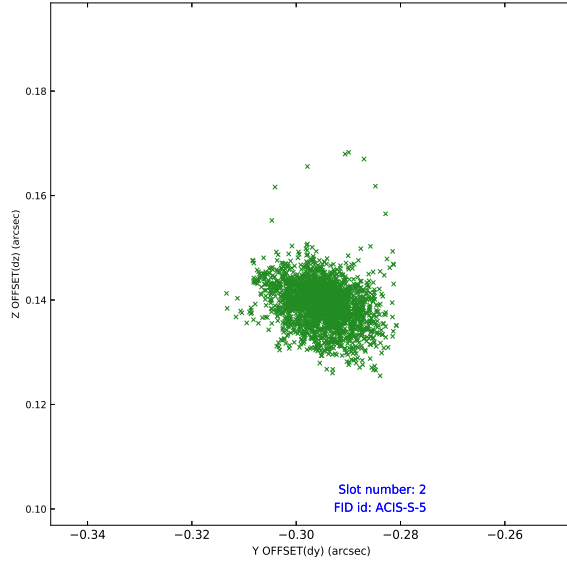
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0749796230793

A.2 Comments