

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19355 - L2 Version 2
Chandra X-Ray Center

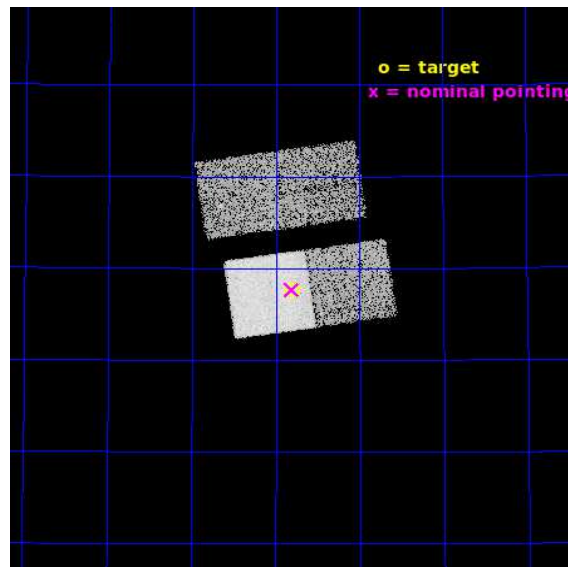
L2 Processing Date : Oct 24 2020

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1 Front

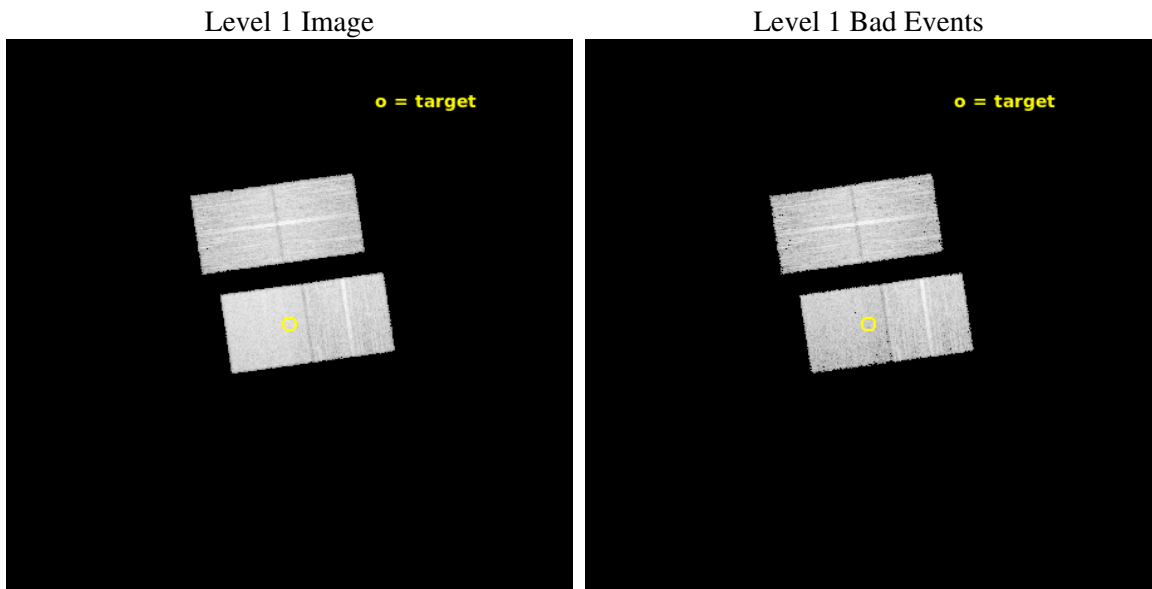
seq_num	601312	Sequence number
obs_id	19355	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3756	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.199583	Observer's specified target RA [deg]
dec_targ	54.293694	Observer's specified target Dec [deg]
ra_nom	174.20171401242	Nominal RA [deg]
dec_nom	54.294697439091	Nominal Dec [deg]
roll_nom	171.76094250063	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10064.969775438	Sum of GTIs [s]
livetime	9933.4635355993	Livetime [s]
ontime2	10064.846655488	Sum of GTIs [s]
ontime3	10064.887695432	Sum of GTIs [s]
ontime6	10064.928735495	Sum of GTIs [s]
ontime7	10064.969775438	Sum of GTIs [s]
l2events	59754	Number of level 2 events



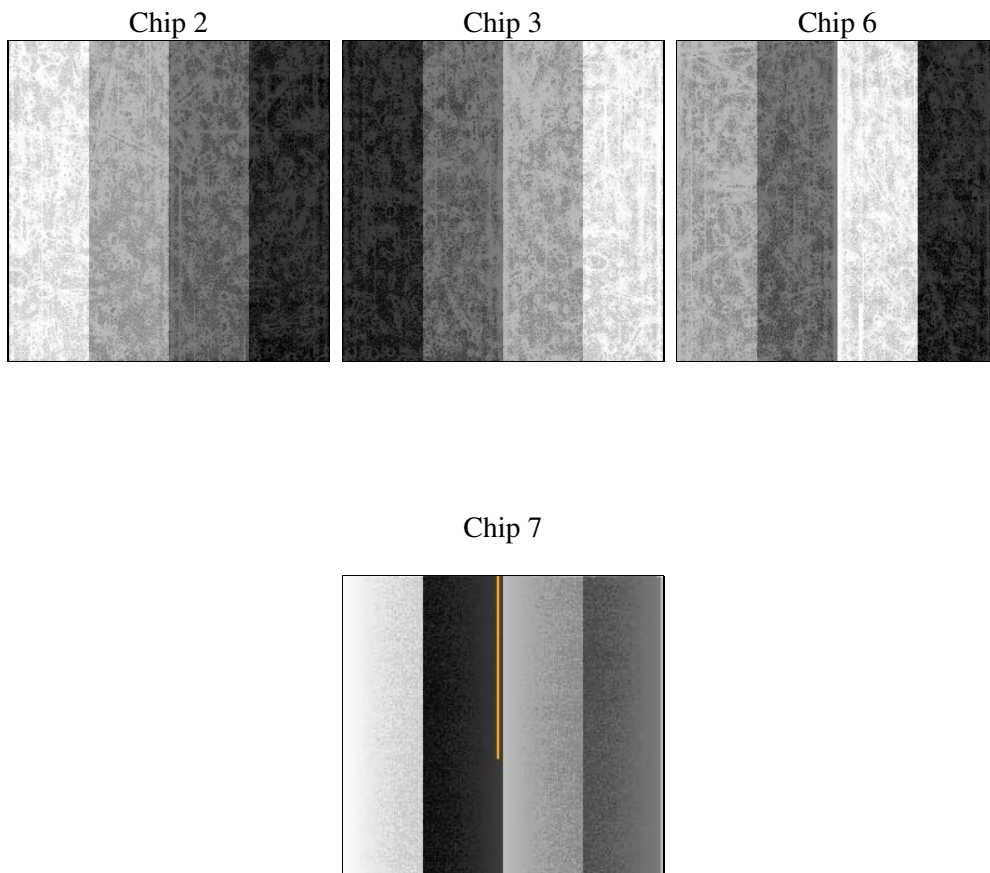
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10064.969775438	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10064.846655488	Sum of GTIs [s]
date	2020-10-25T00:17:55	Date and time of file creation	ontime3	10064.887695432	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10064.928735495	Sum of GTIs [s]
			ontime7	10064.969775438	Sum of GTIs [s]
			l1events	320624	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73429	73245	78996	94954
rejected events	65957	65714	70448	54237
rejected %	89%	89%	89%	57%

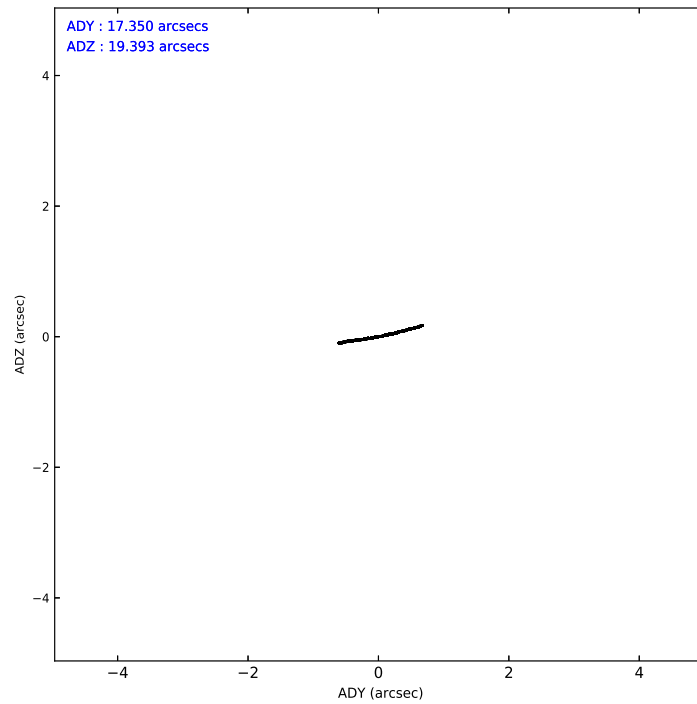
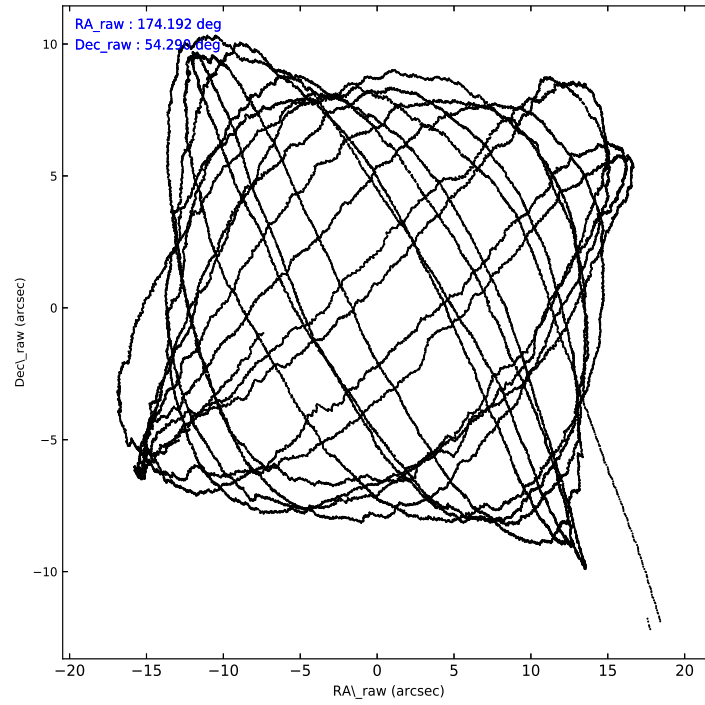
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2628	2611	2640	3402
	3%	3%	3%	3%
grade 1 events	22	36	36	116
	0%	0%	0%	0%
grade 2 events	1794	1640	2255	8341
	2%	2%	2%	8%
grade 3 events	777	854	743	3313
	1%	1%	0%	3%
grade 4 events	784	757	800	3150
	1%	1%	1%	3%
grade 5 events	2853	3383	3244	9223
	3%	4%	4%	9%
grade 6 events	1492	1673	2116	22543
	2%	2%	2%	23%
grade 7 events	63079	62291	67162	44866
	85%	85%	85%	47%

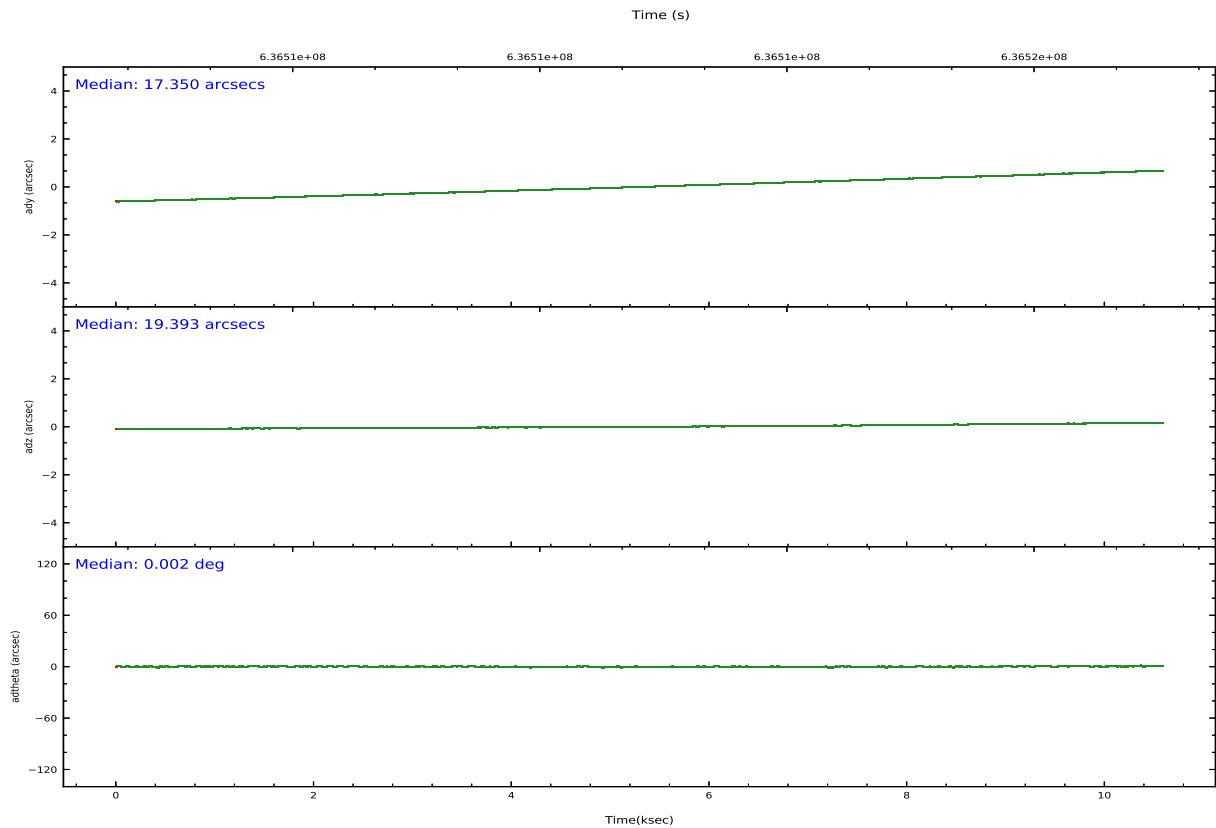
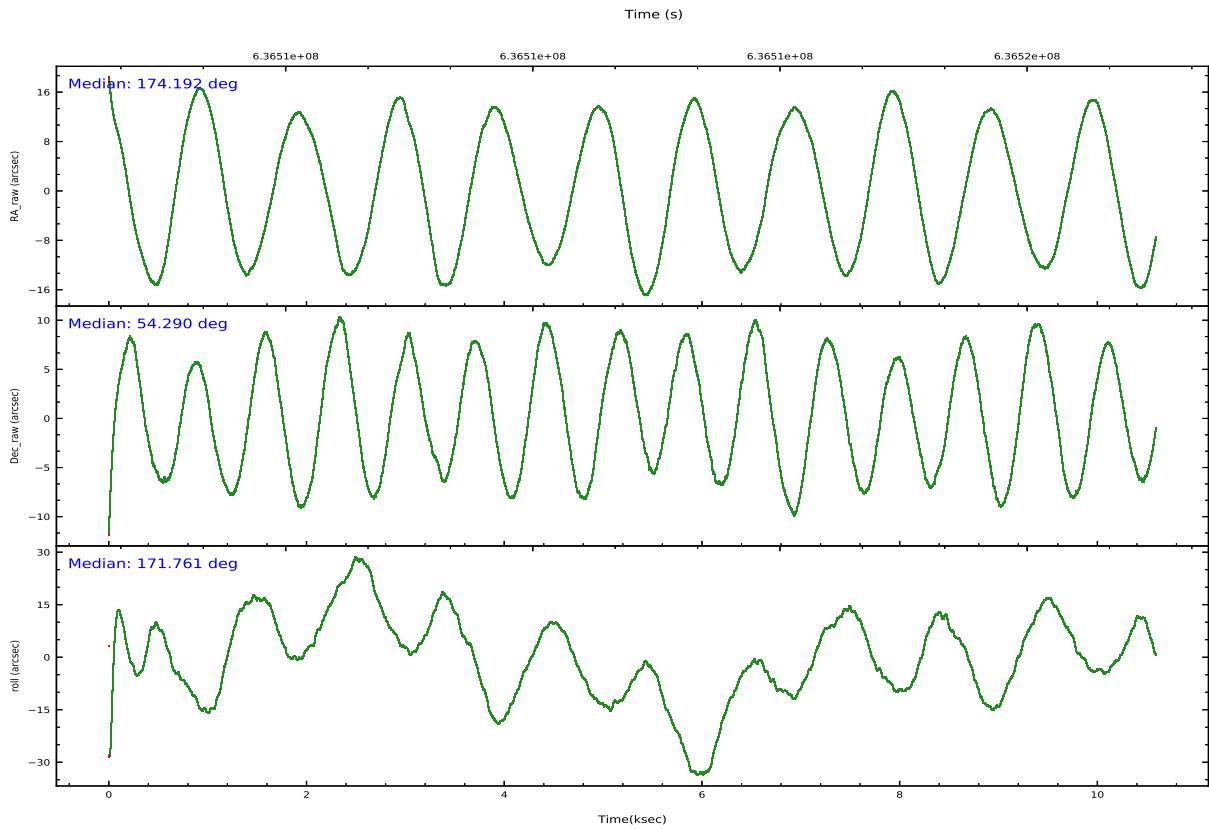
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	174.235335	174.20171401242
[deg] Pointing Dec	54.300414	54.294697439091
[deg] Pointing Roll	171.575470	171.76094250063
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	636506305.184000	636505204.60474
Observation start date	2018-03-03T23:17:16	2018-03-03T23:00:04
[s] Observation end time (MET)	636516305.184000	636516573.9054101
Observation end date	2018-03-04T02:03:56	2018-03-04T02:09:33
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect





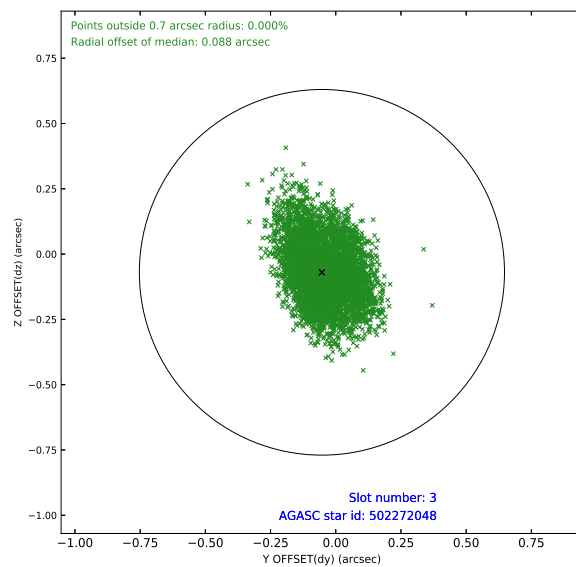
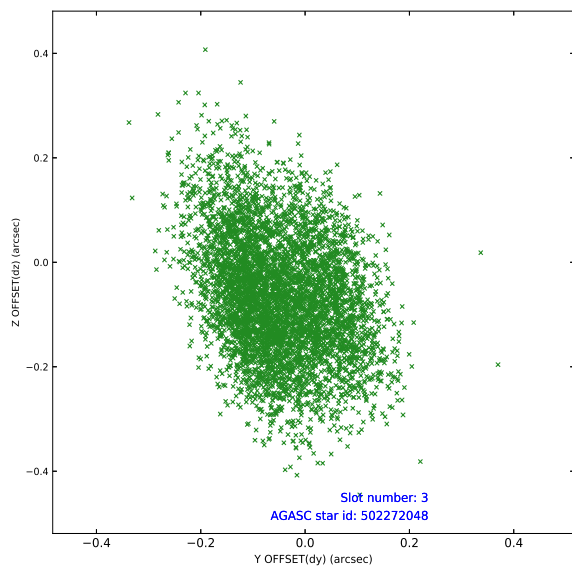
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.12	2585	1.000	0.116	-0.109	0.009	0.015	0.000000	0.000000	-770.46	-1740
1	FID		ACIS-S-4	7.23	2585	1.000	0.138	-0.026	0.009	0.016	0.000000	0.000000	2142.80	166
2	FID		ACIS-S-5	7.21	2584	1.000	-0.285	0.144	0.010	0.017	0.000000	0.000000	-1822.88	161
3	GUIDE	used	502272048	8.06	5168	1.000	-0.053	-0.070	0.153	0.250	173.533620	53.776055	1201.10	2078
4	GUIDE	used	502274200	9.40	5165	1.000	0.054	0.060	0.157	0.261	174.900979	53.766024	-1682.05	1689
5	GUIDE	used	502276712	9.15	5159	1.000	-0.011	0.066	0.172	0.279	173.909635	53.889652	466.57	1563
6	GUIDE	used	502278056	9.86	5158	1.000	-0.079	-0.050	0.281	0.433	174.776919	54.110165	-1229.08	506
7	GUIDE	used	502272912	9.48	5162	1.000	0.070	0.005	0.220	0.348	173.784173	54.345996	961.55	-26

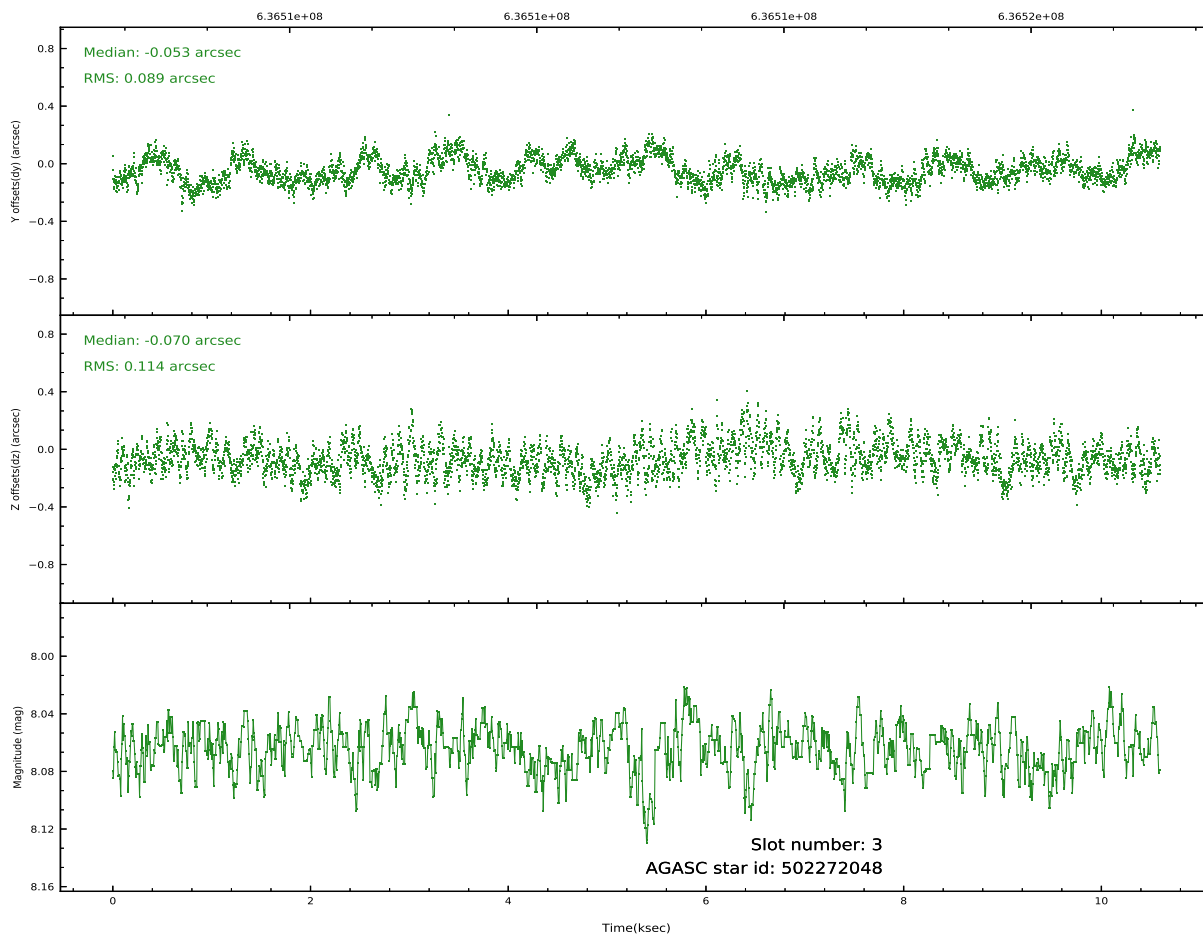
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2.4 Star Slots

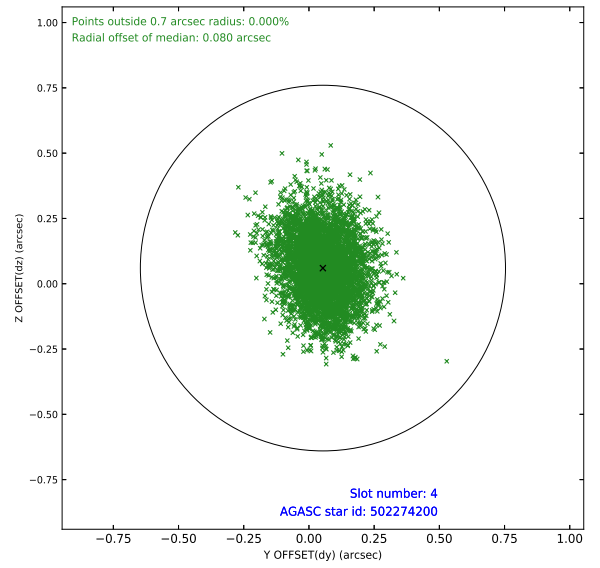
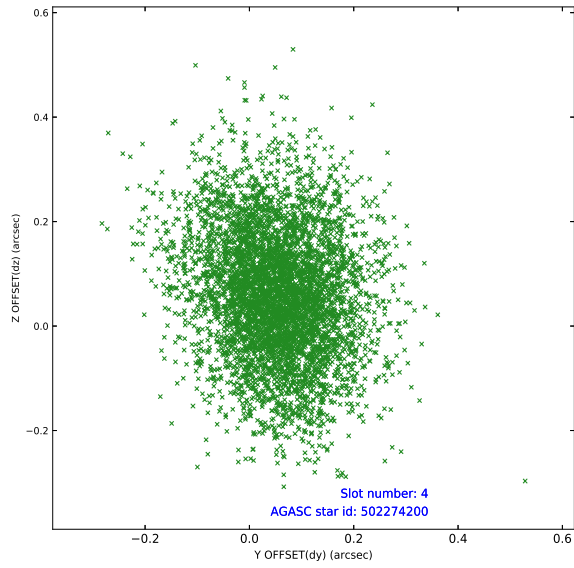
2.4.1 Slot 3



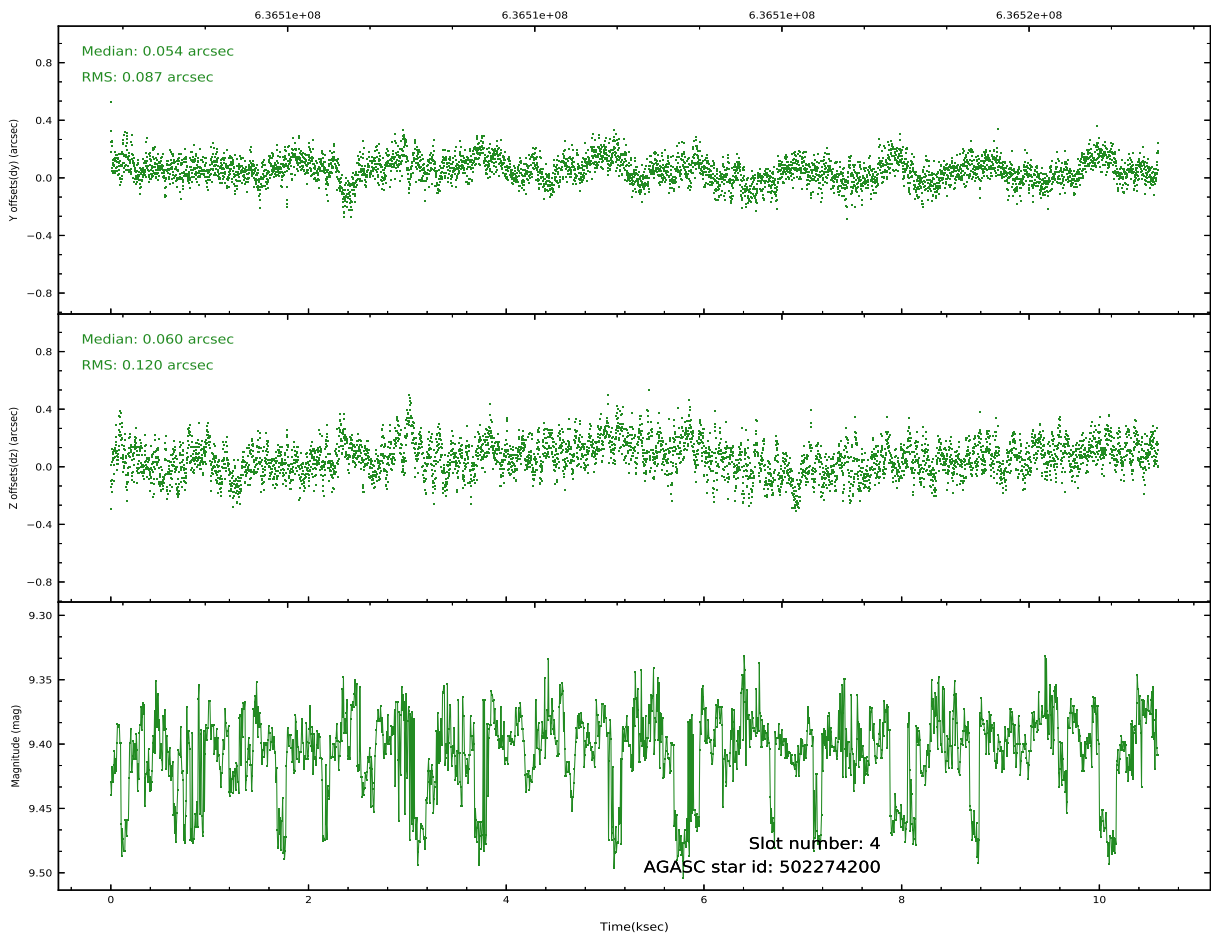
Time (s)



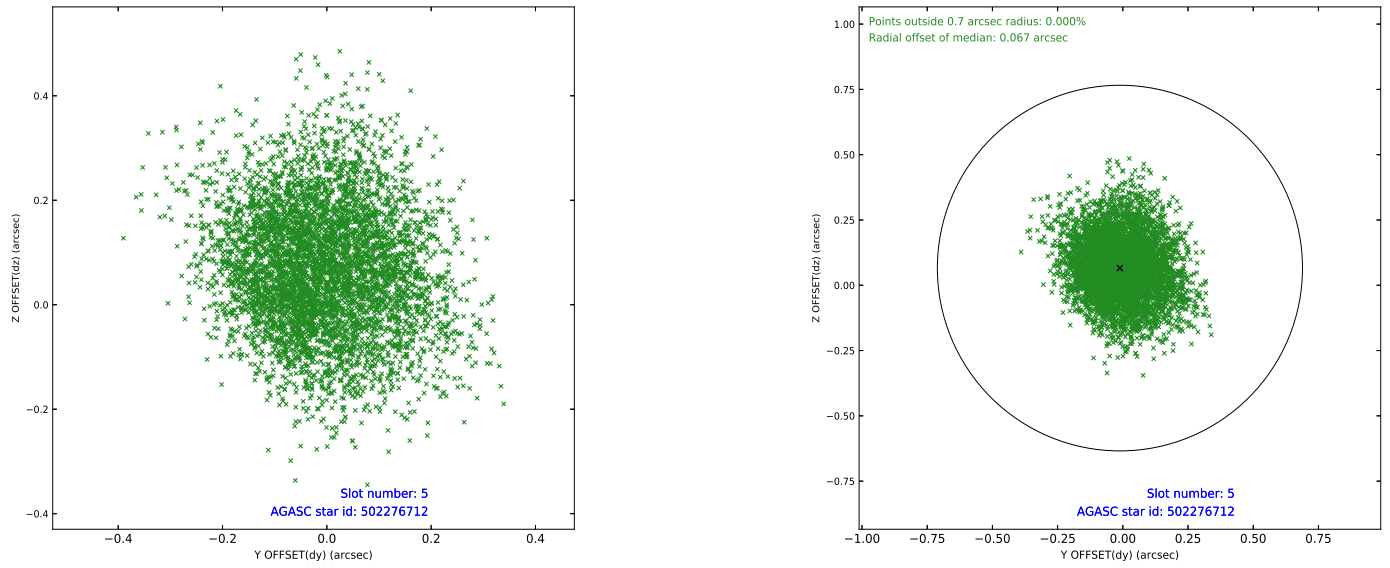
2.4.2 Slot 4



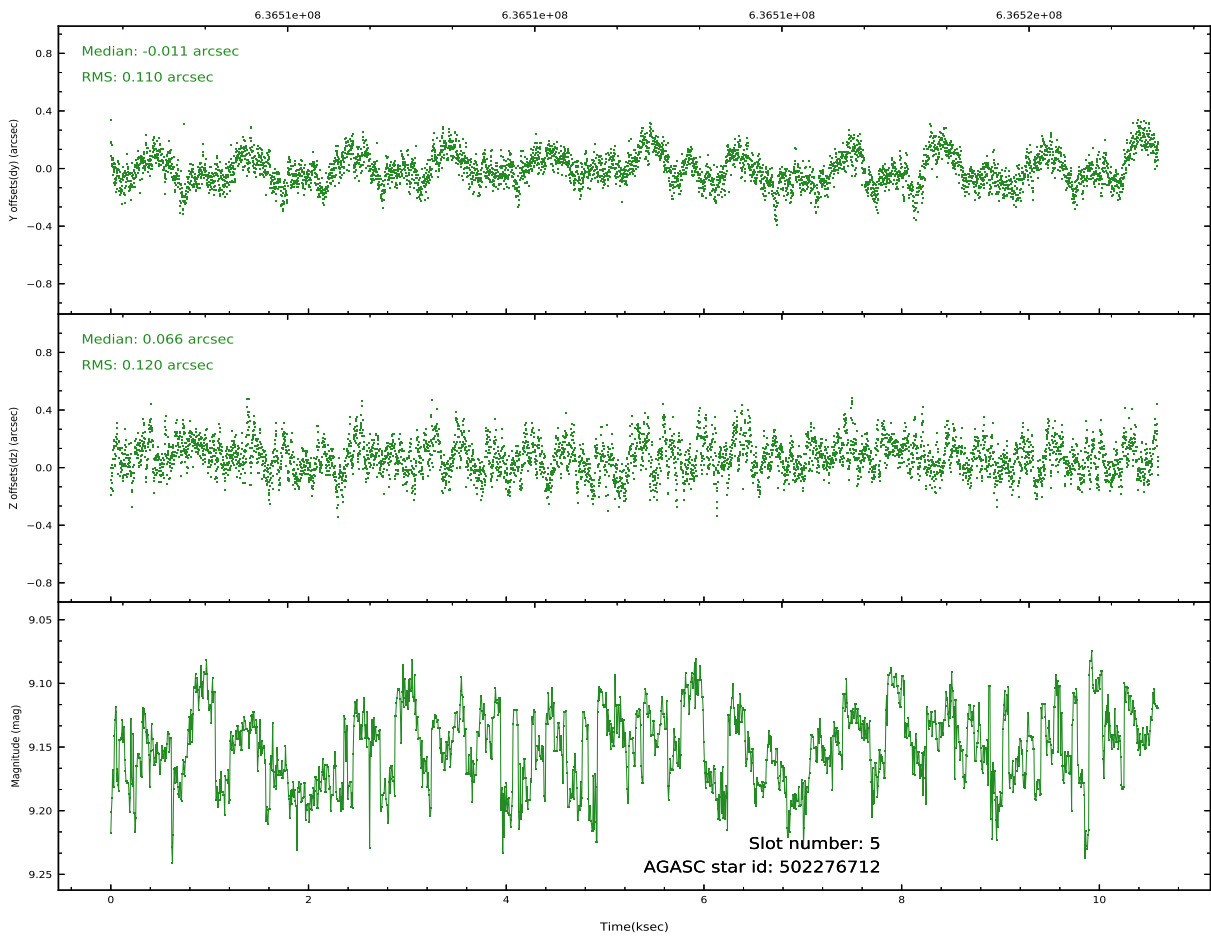
Time (s)



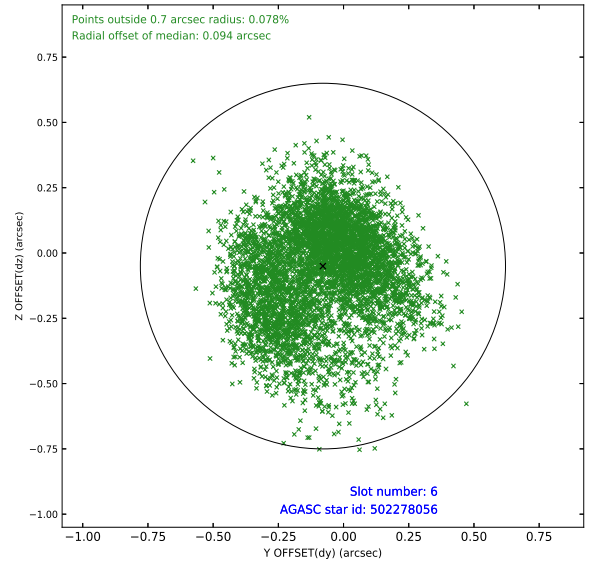
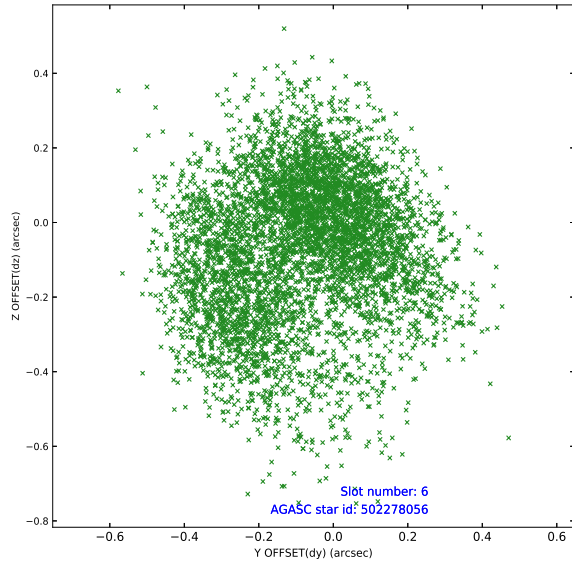
2.4.3 Slot 5



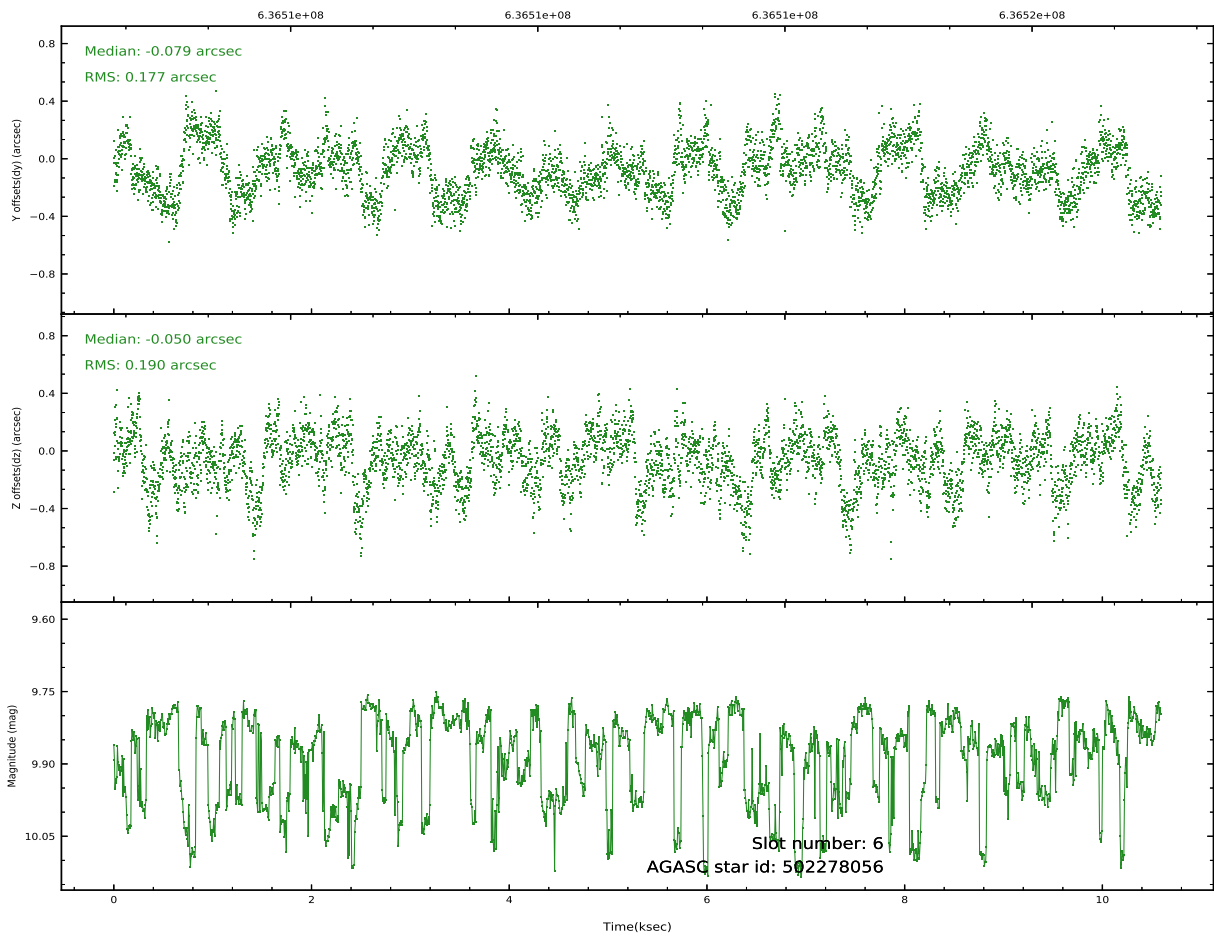
Time (s)



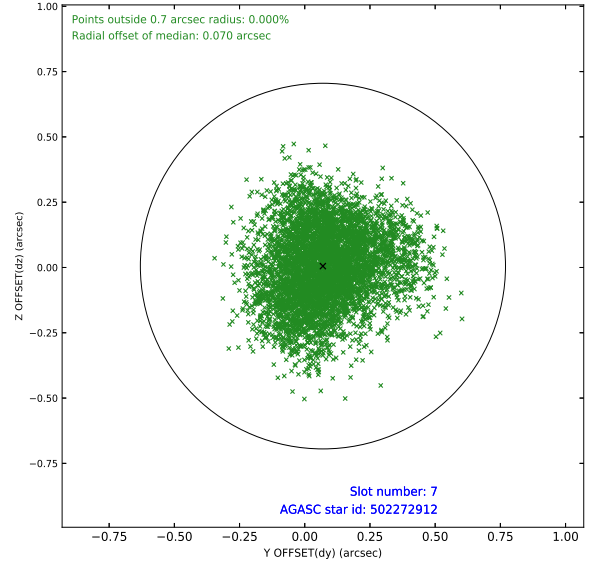
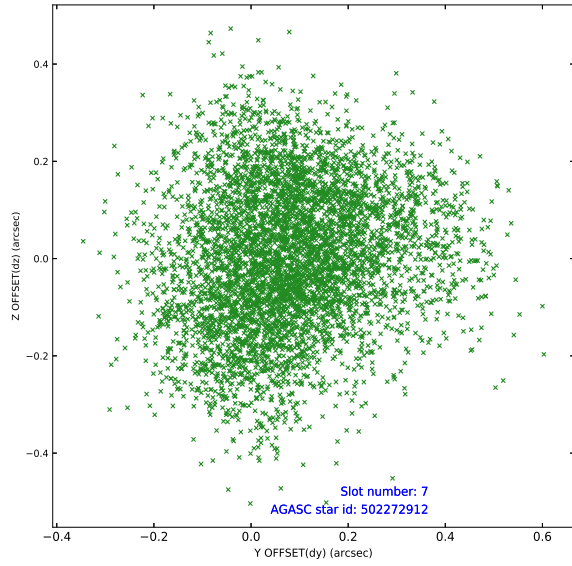
2.4.4 Slot 6



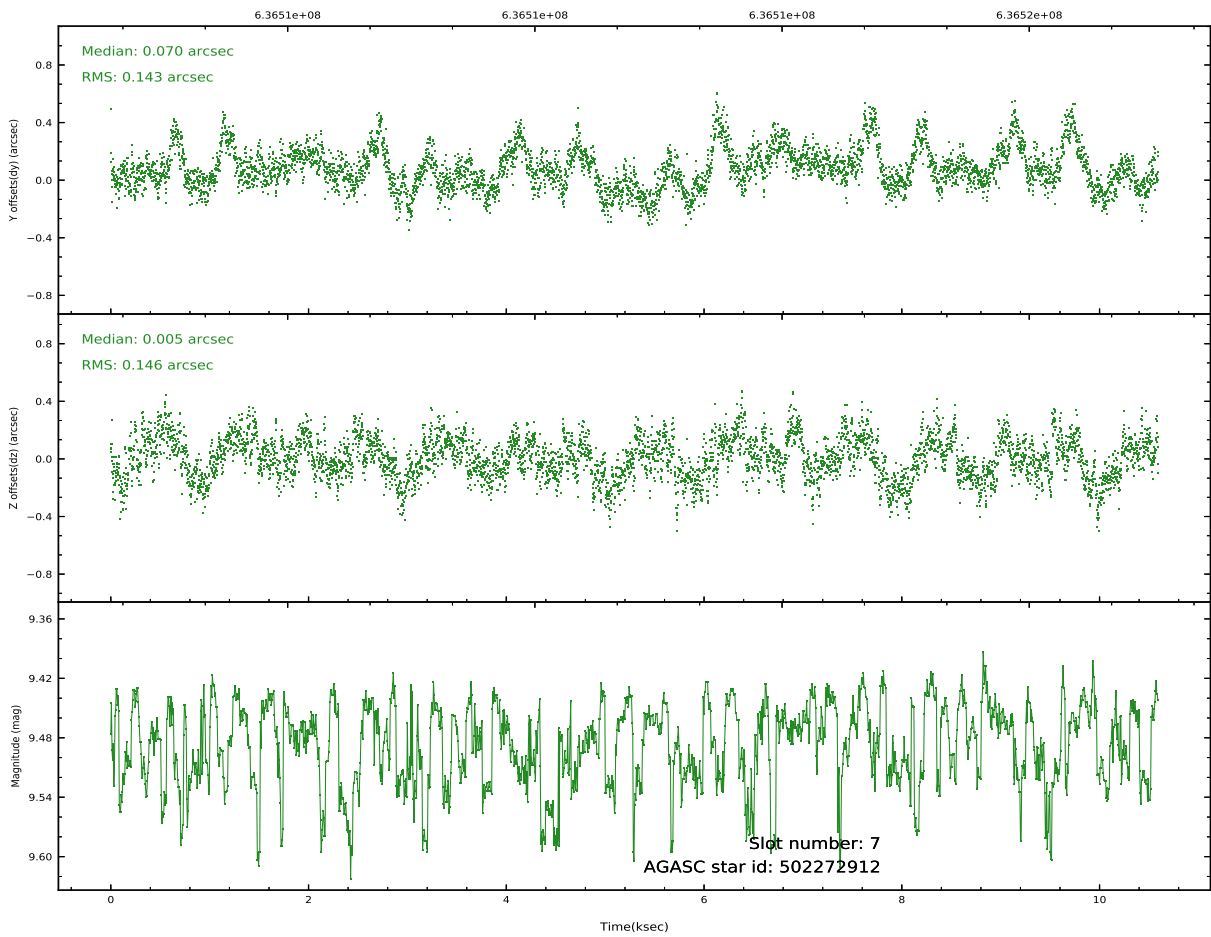
Time (s)



2.4.5 Slot 7

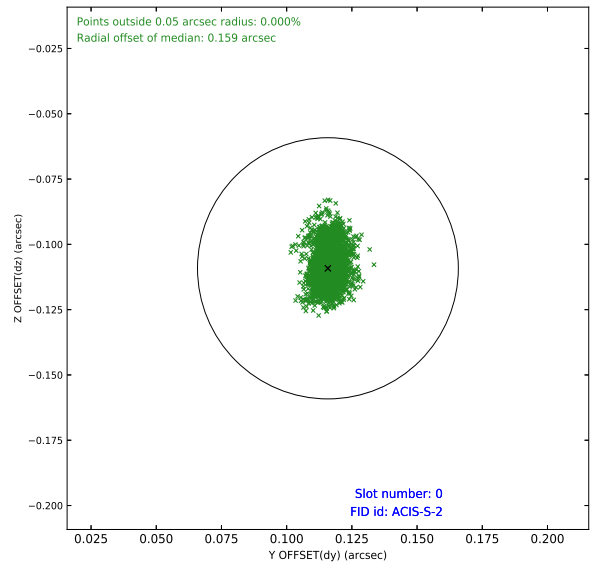
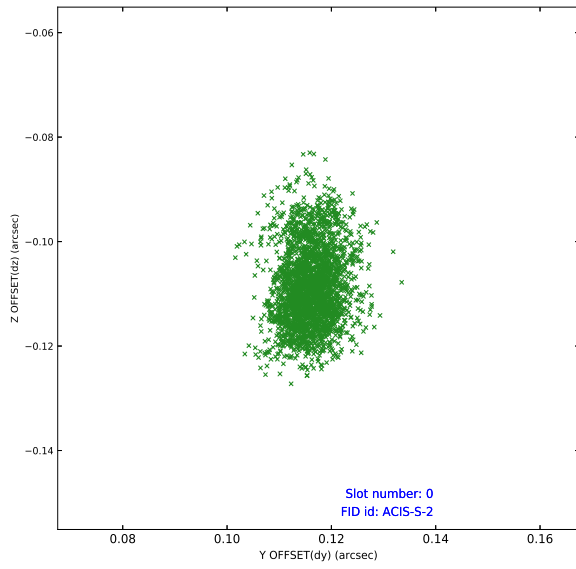


Time (s)

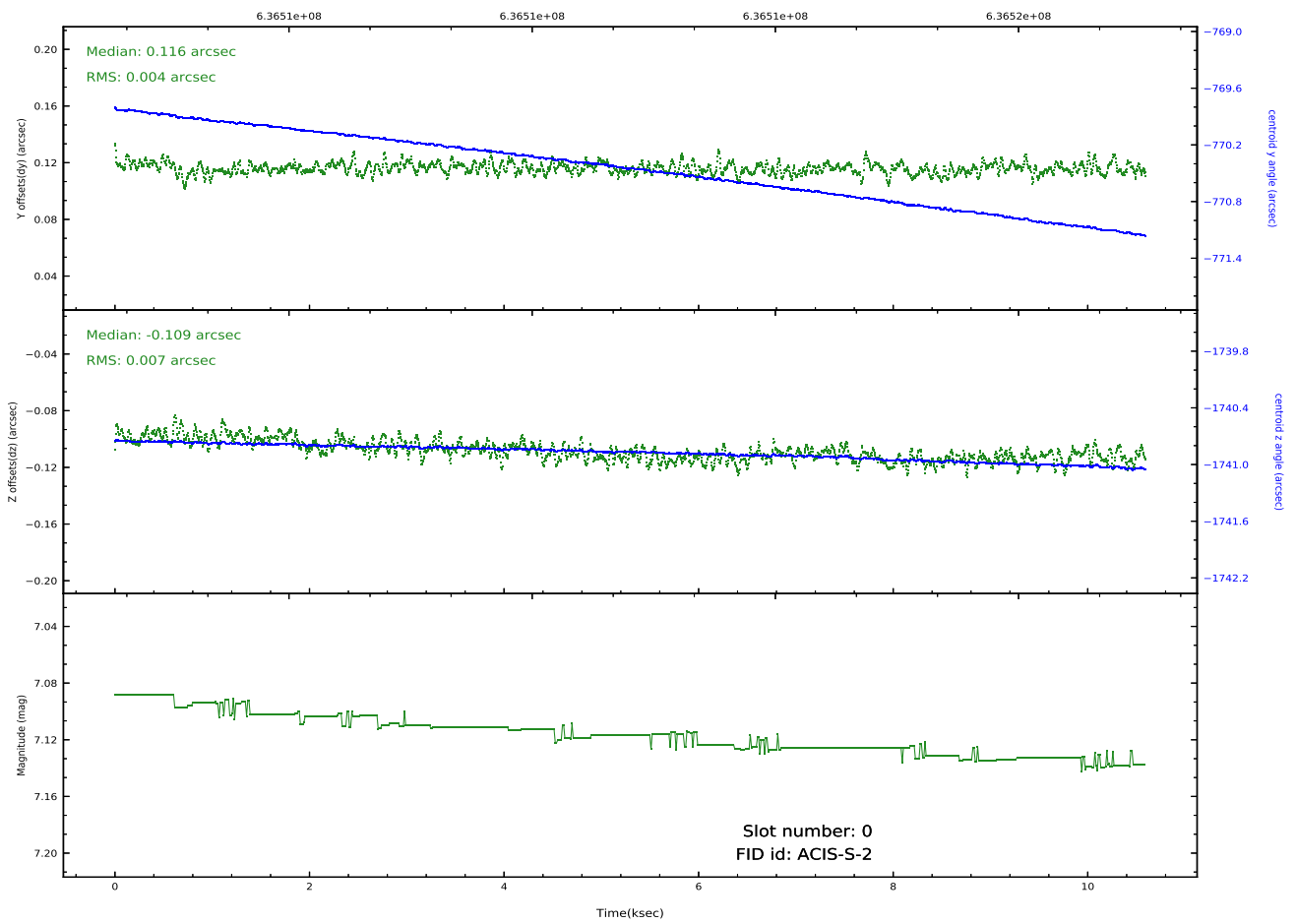


2.5 FID Slots

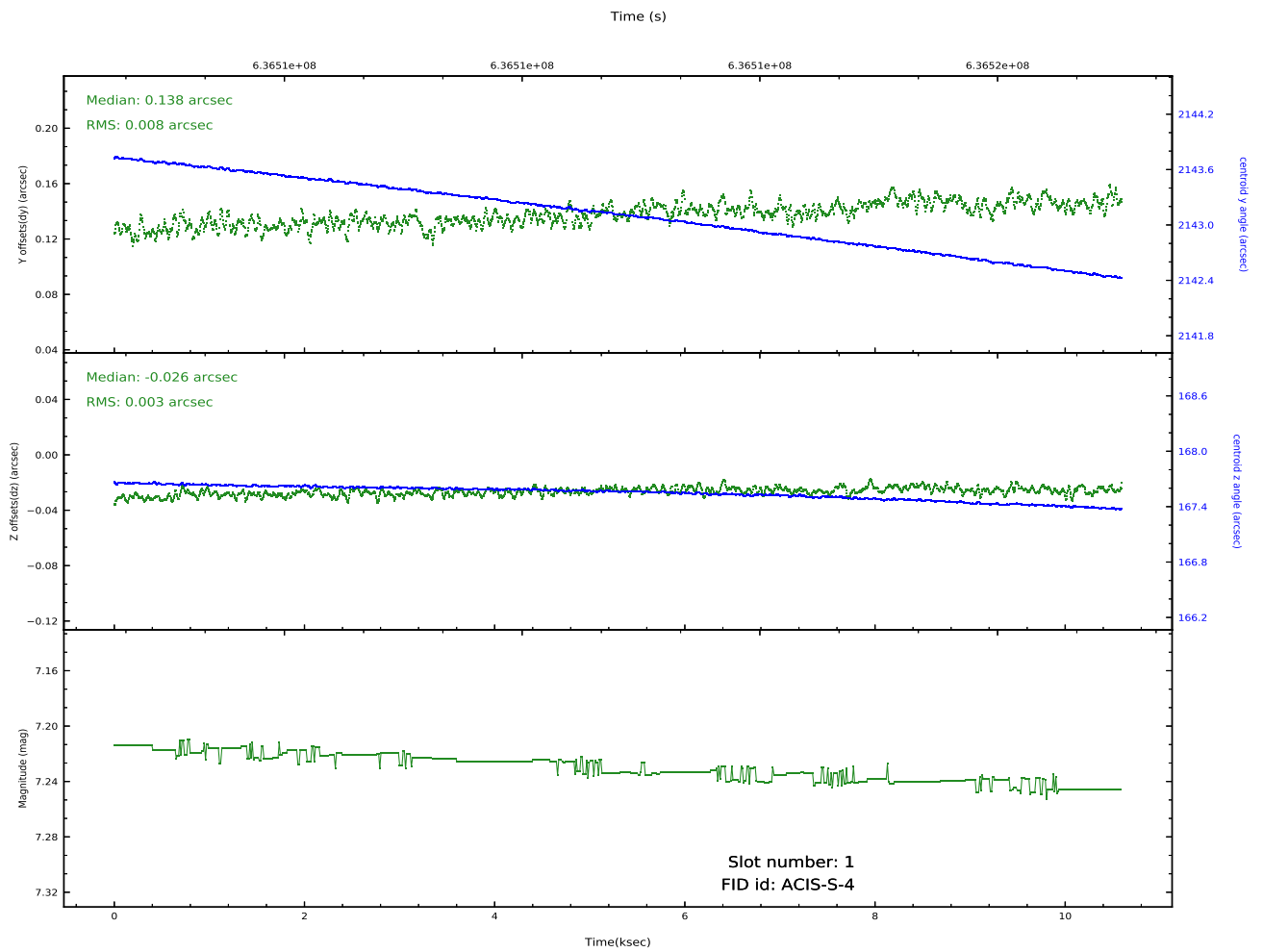
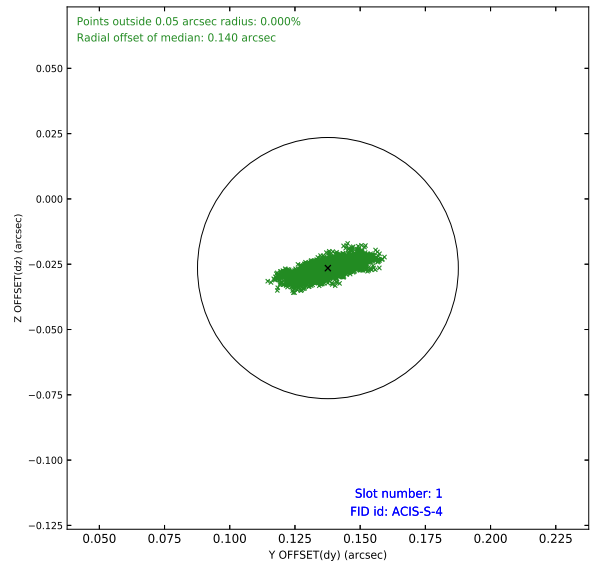
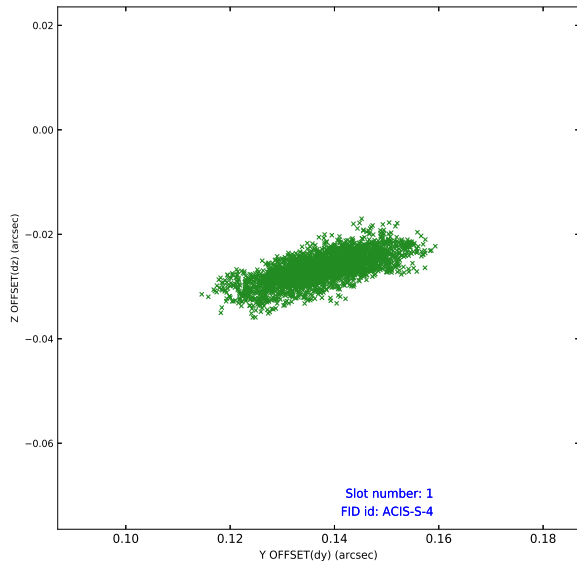
2.5.1 Slot 0



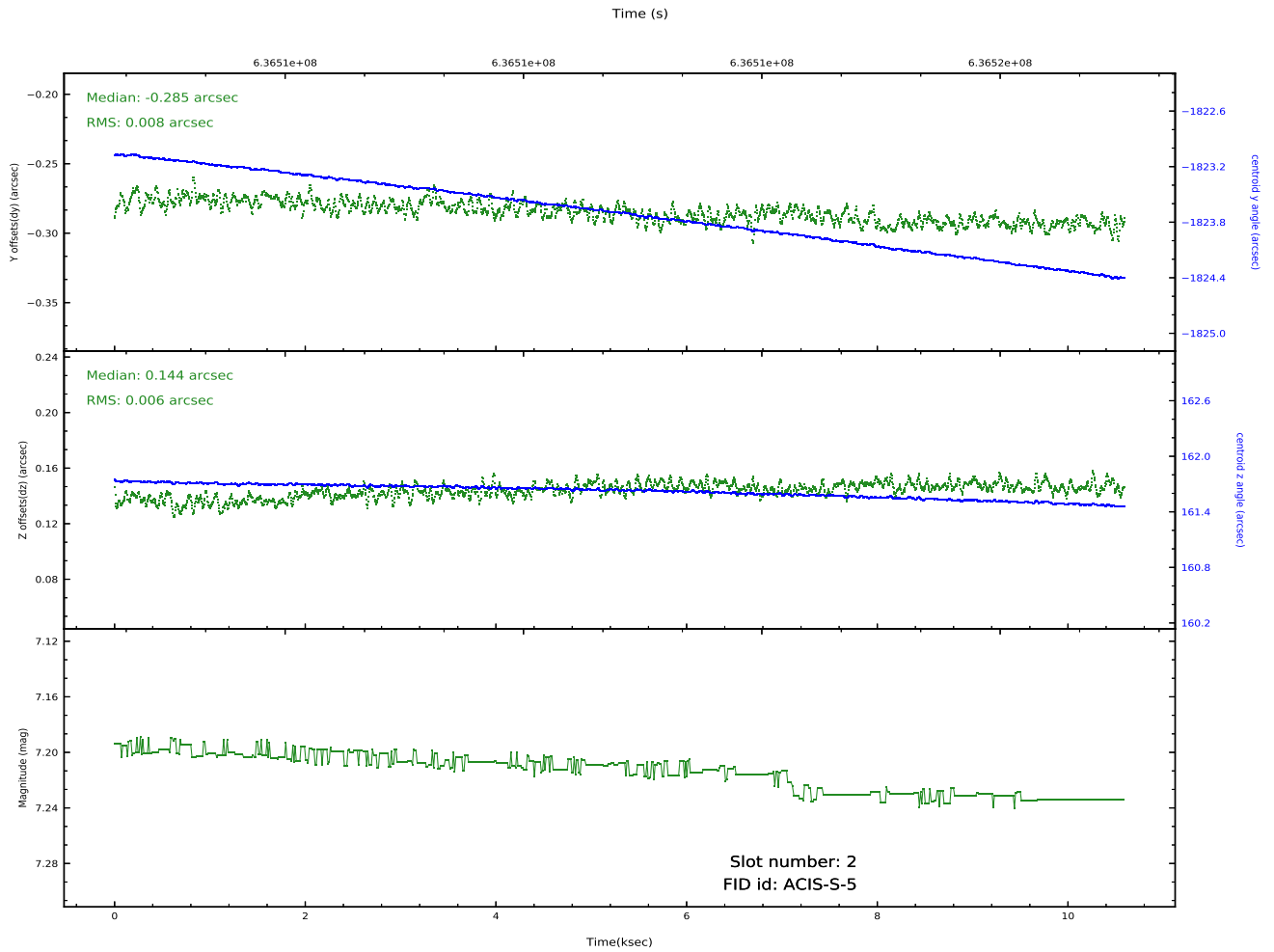
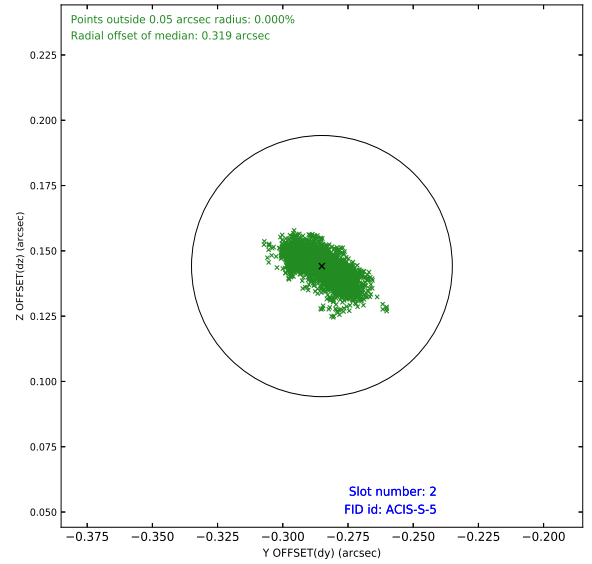
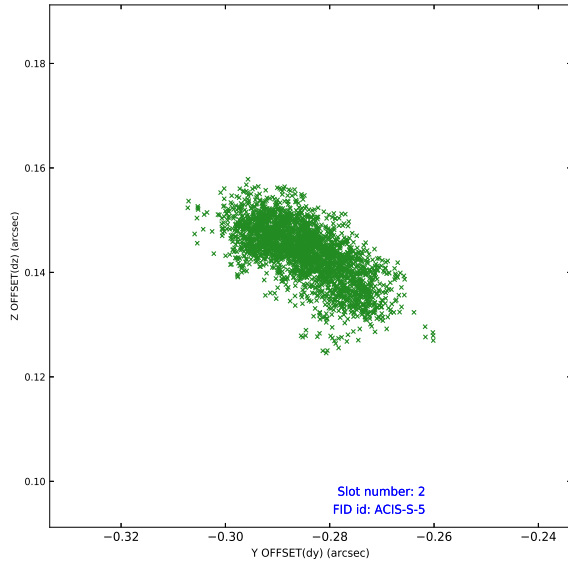
Time (s)



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064969775558

A.2 Comments