

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7222 - L2 Version 3
Chandra X-Ray Center

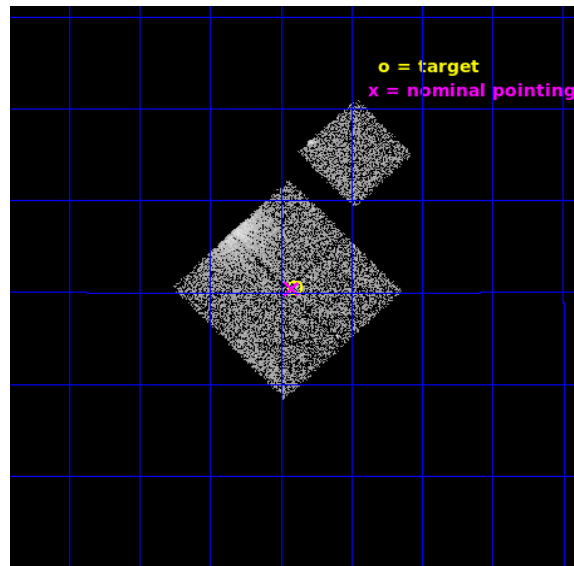
L2 Processing Date : Oct 11 2020

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1 Front

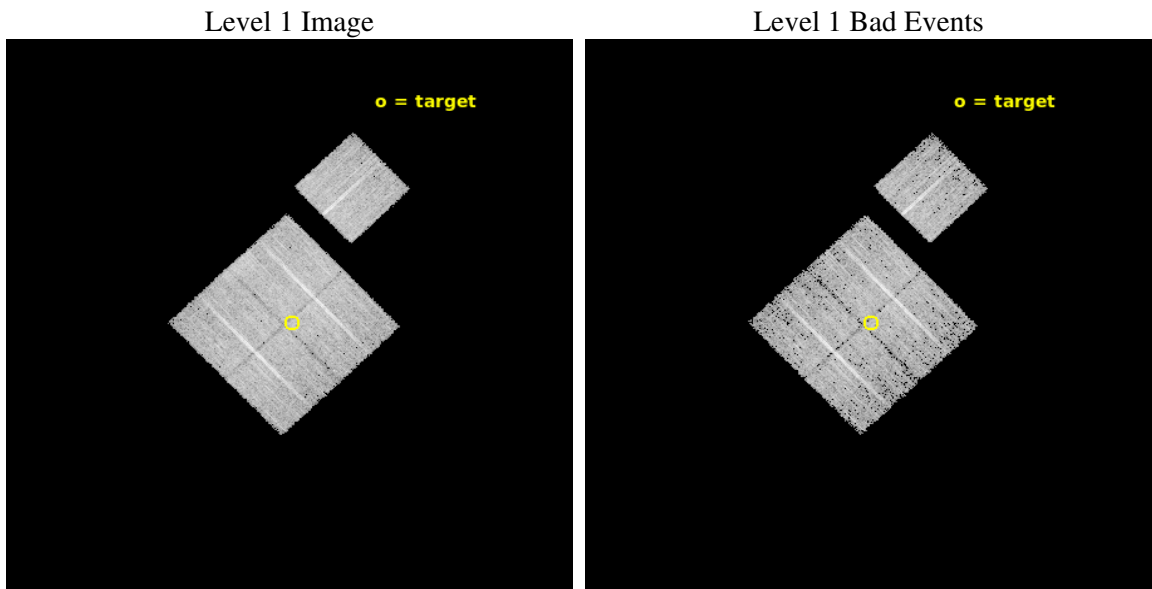
seq_num	800562	Sequence number
obs_id	7222	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.341667	Observer's specified target Dec [deg]
ra_nom	63.230076821188	Nominal RA [deg]
dec_nom	10.340091511724	Nominal Dec [deg]
roll_nom	46.207640463498	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6218.5590177178	Sum of GTIs [s]
livetime	6137.3089661148	Livetime [s]
ontime0	6221.6999880075	Sum of GTIs [s]
ontime1	6221.6999880075	Sum of GTIs [s]
ontime2	6221.6999880075	Sum of GTIs [s]
ontime3	6218.5590177178	Sum of GTIs [s]
ontime6	6221.6999880075	Sum of GTIs [s]
l2events	22578	Number of level 2 events



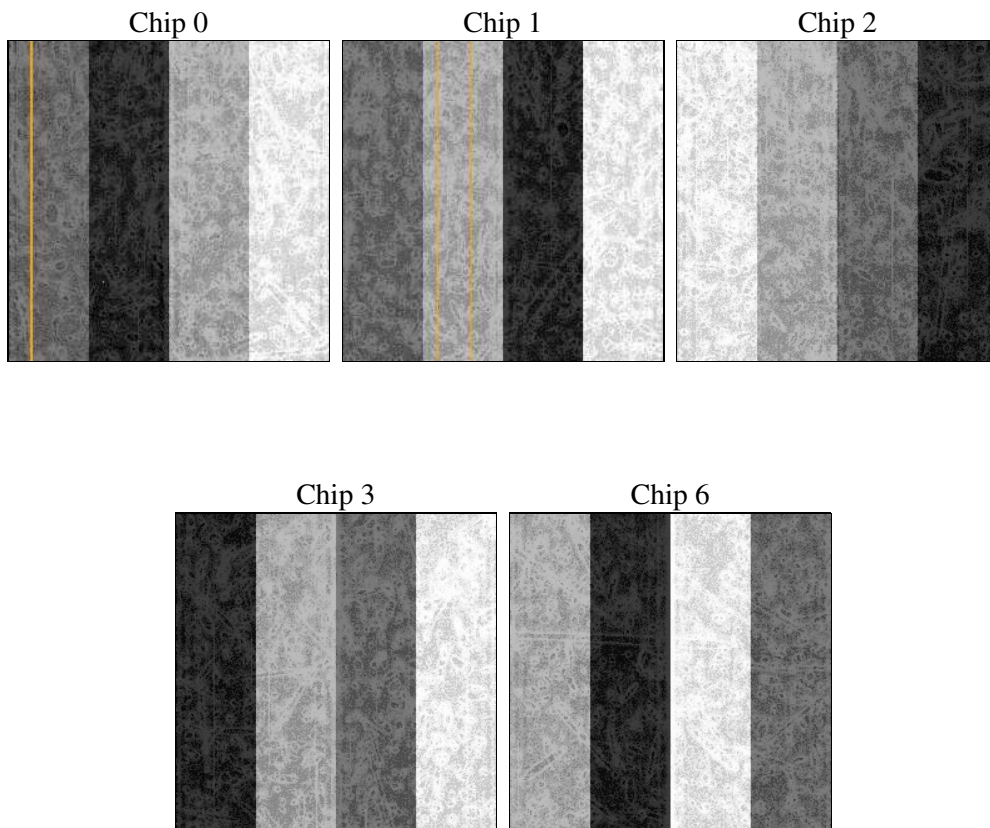
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6109.965000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6218.5590177178	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	6221.6999880075	Sum of GTIs [s]
date	2020-10-11T15:54:11	Date and time of file creation	ontime1	6221.6999880075	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6221.6999880075	Sum of GTIs [s]
			ontime3	6218.5590177178	Sum of GTIs [s]
			ontime6	6221.6999880075	Sum of GTIs [s]
			l1events	238047	Number of level 1 events

2.1.4 Events

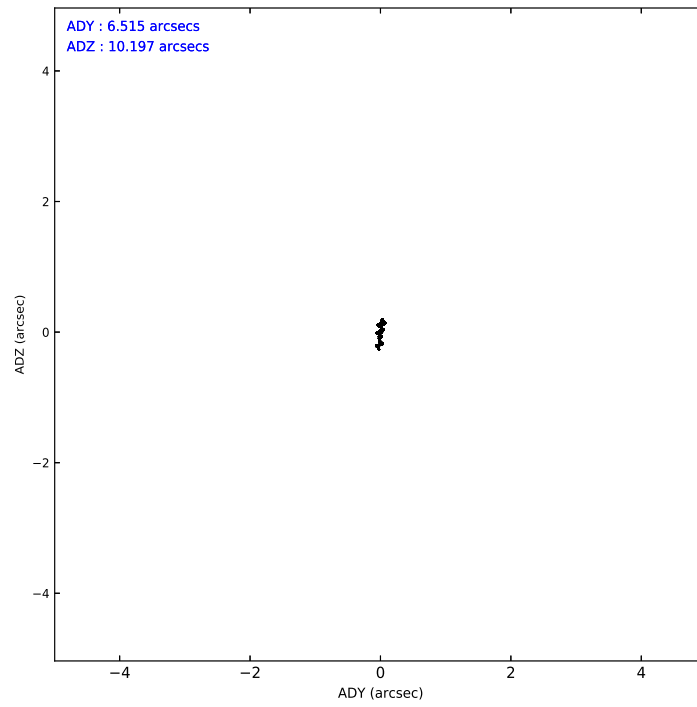
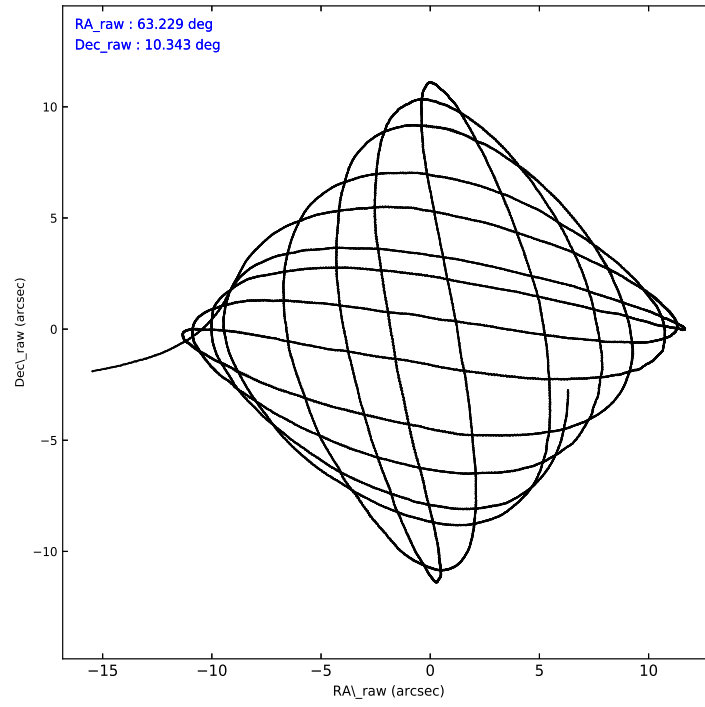
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	46604	43472	53947	45831	48193
rejected events	40347	38912	46582	41851	43804
rejected %	86%	89%	86%	91%	90%

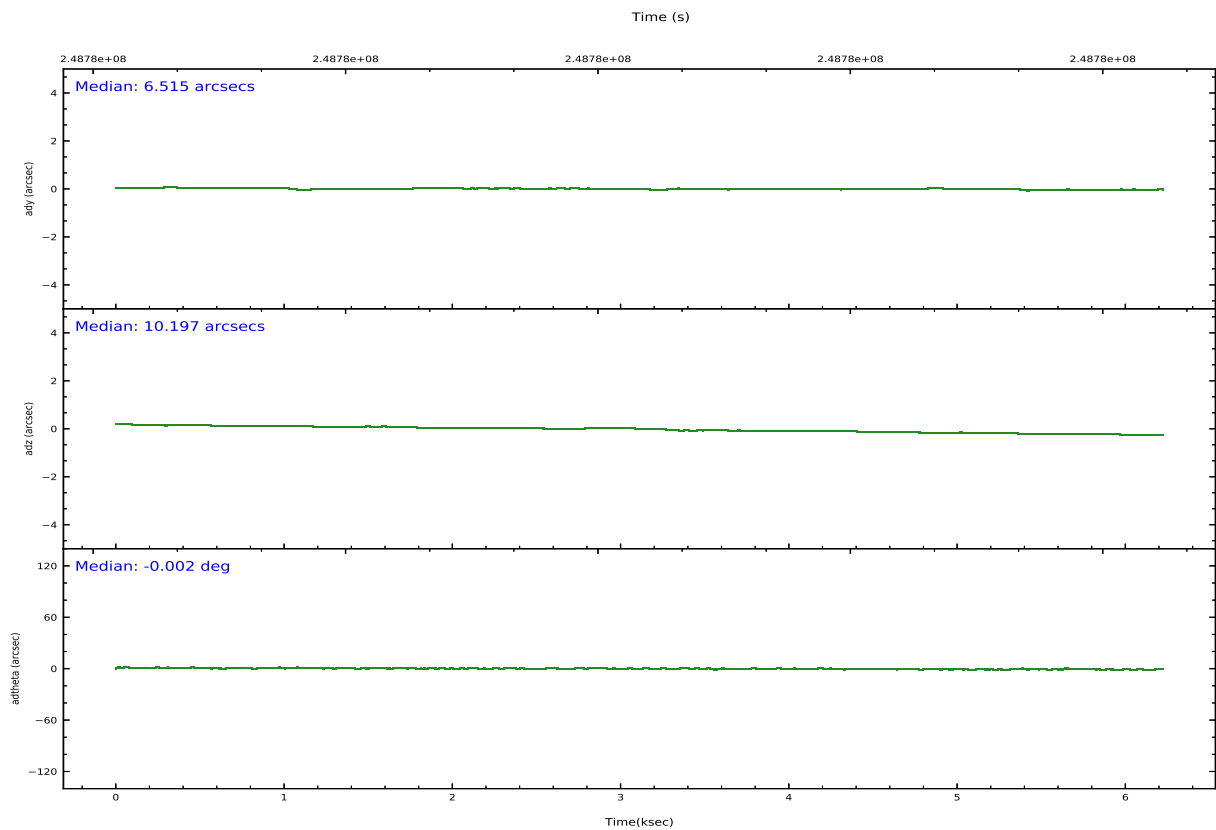
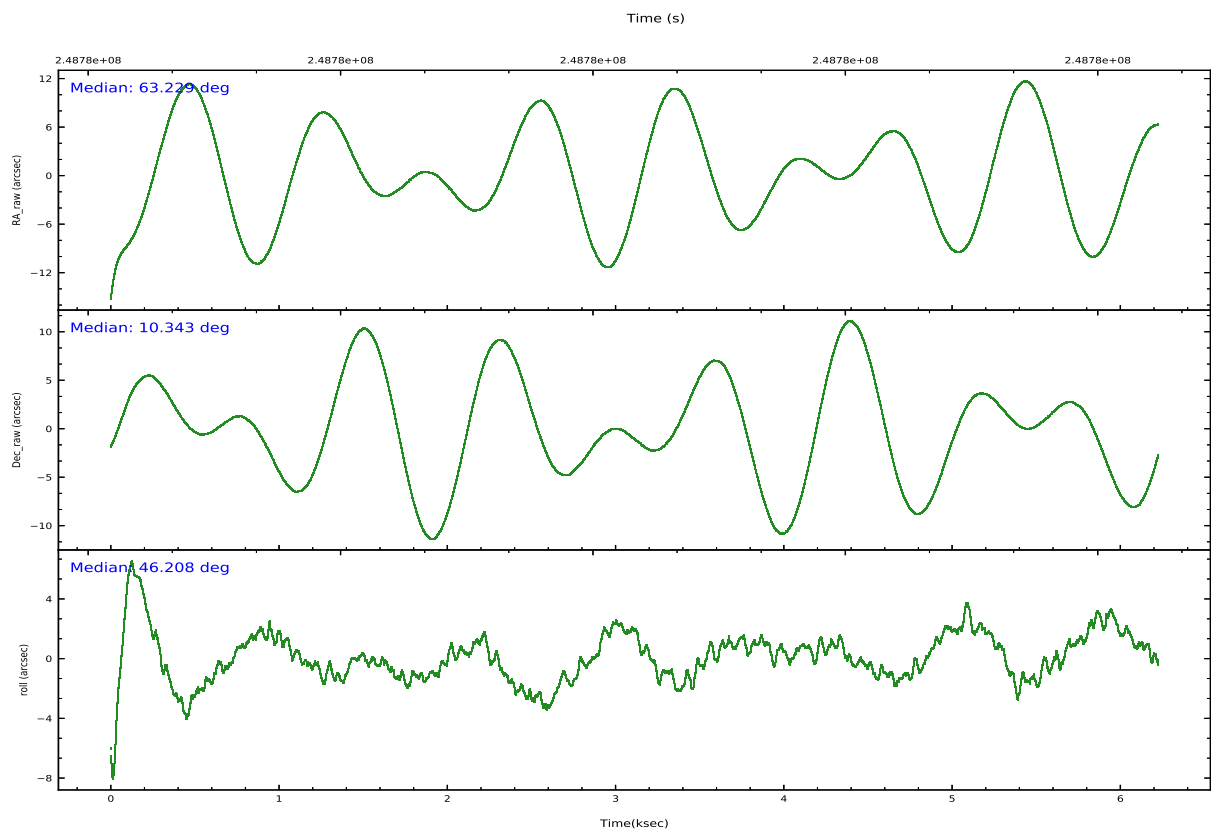
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3417	1943	4404	1691	1819
	7%	4%	8%	3%	3%
grade 1 events	30	19	41	24	17
	0%	0%	0%	0%	0%
grade 2 events	1312	1139	1438	940	1056
	2%	2%	2%	2%	2%
grade 3 events	640	581	631	505	578
	1%	1%	1%	1%	1%
grade 4 events	611	547	640	512	554
	1%	1%	1%	1%	1%
grade 5 events	1528	1864	1524	1884	1940
	3%	4%	2%	4%	4%
grade 6 events	976	1009	908	922	1003
	2%	2%	1%	2%	2%
grade 7 events	38090	36370	44361	39353	41226
	81%	83%	82%	85%	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	63.222805	63.230076821188	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.316874	10.340091511724	Alternating exposures requested	N	N
[deg] Pointing Roll	46.000390	46.207640463498	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	248777749.184000	248776376.58305			
Observation start date	2005-11-19T08:54:45	2005-11-19T08:32:56			
[s] Observation end time (MET)	248783859.184000	248784092.27091			
Observation end date	2005-11-19T10:36:35	2005-11-19T10:41:32			
Read mode	TIMED	TIMED			

2.3 Aspect



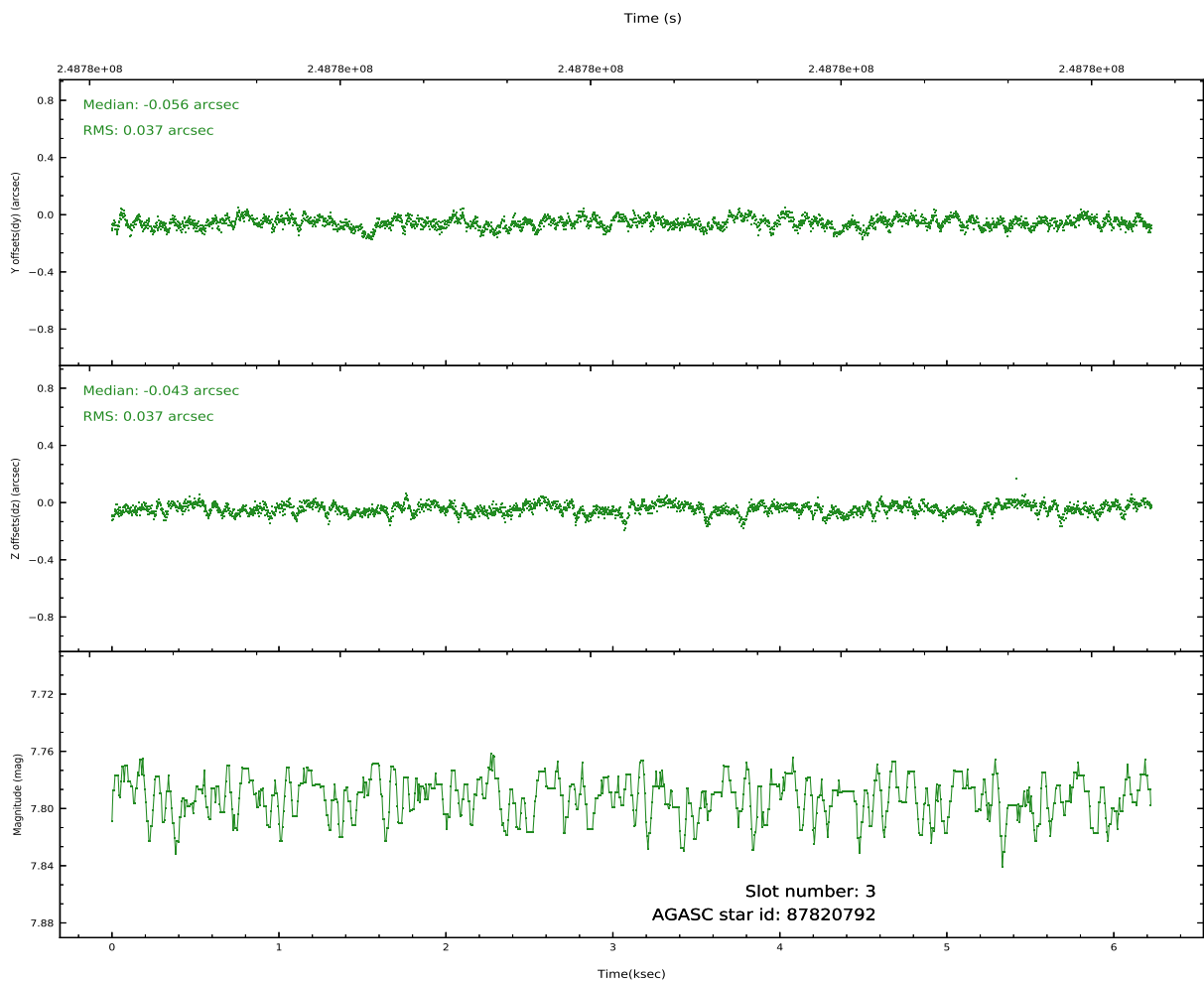
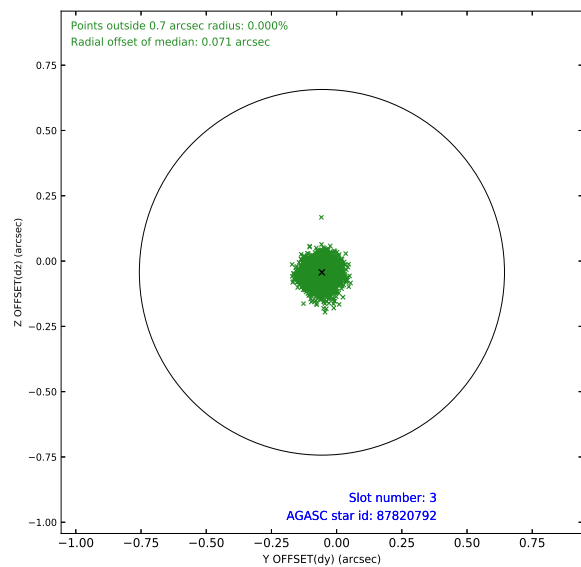
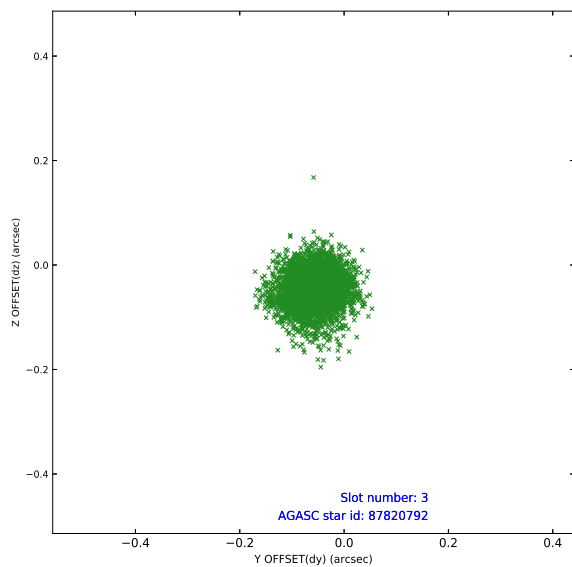


Slot Statistics

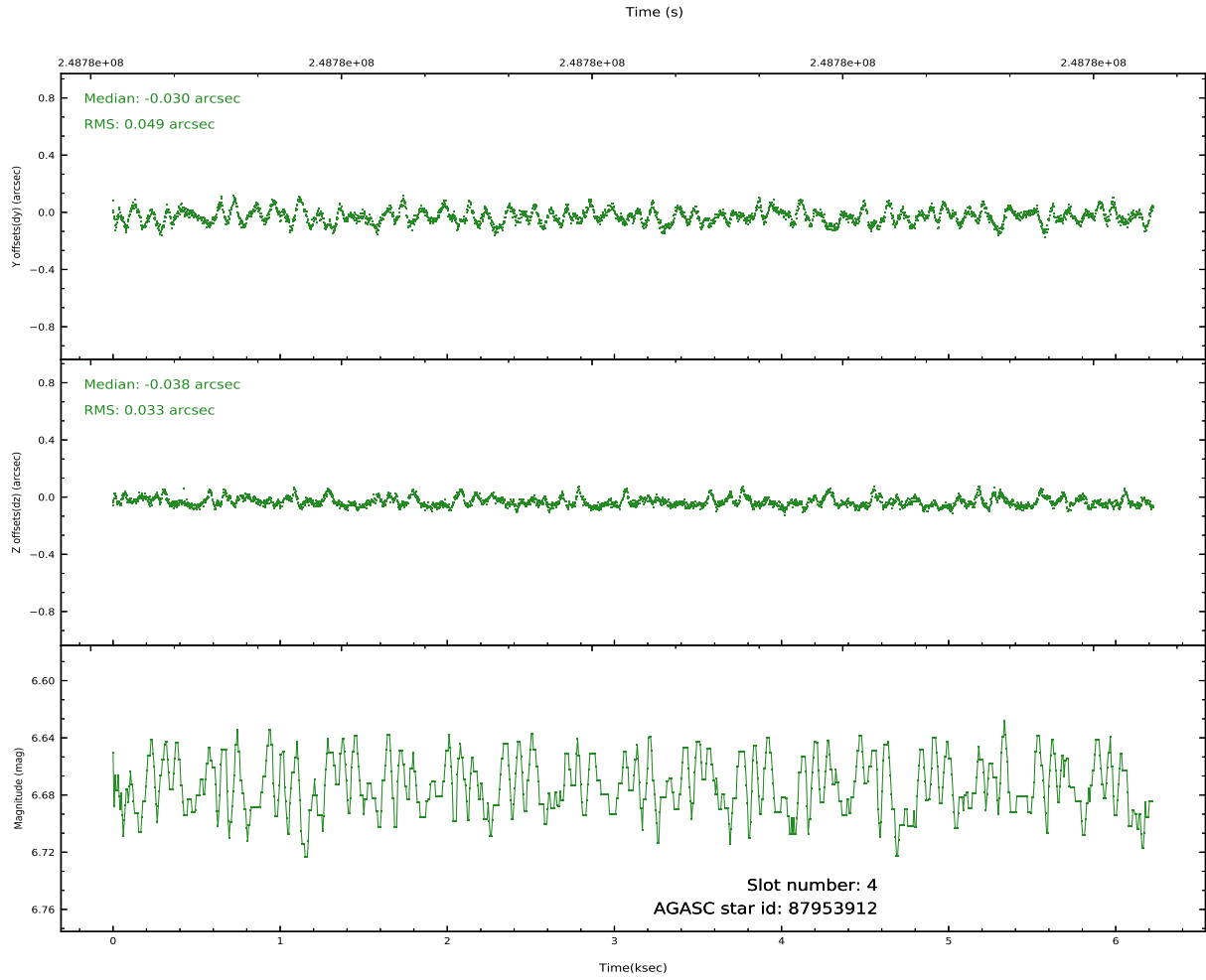
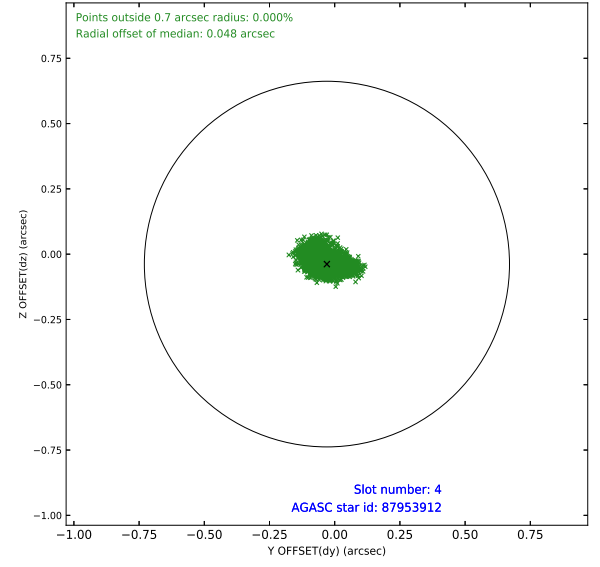
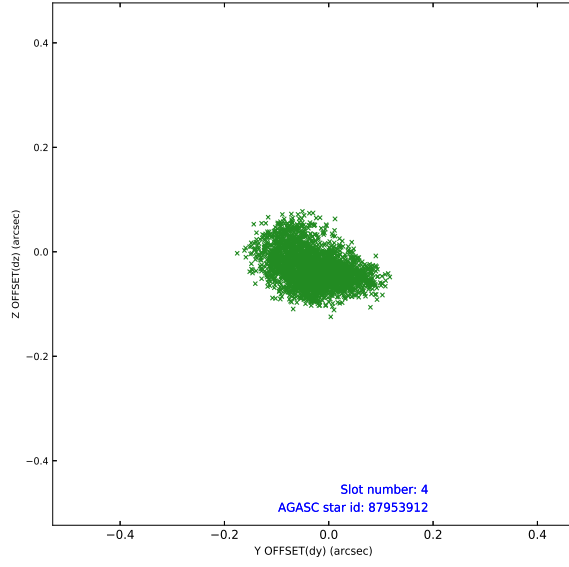
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1519	1.000	0.019	-0.020	0.008	0.015	0.000000	0.000000	933.20	-833
1	FID		ACIS-I-5	7.23	1519	1.000	-0.188	0.025	0.007	0.011	0.000000	0.000000	-1814.59	1063
2	FID		ACIS-I-6	7.25	1519	1.000	0.077	0.065	0.008	0.012	0.000000	0.000000	397.77	1709
3	GUIDE	used	87820792	7.79	3038	1.000	-0.056	-0.043	0.056	0.089	63.068647	9.650157	-2106.22	-1273
4	GUIDE	used	87953912	6.68	3037	1.000	-0.030	-0.038	0.064	0.105	63.394036	10.212467	150.87	-698
5	GUIDE	used	87954016	9.27	3038	1.000	0.042	-0.069	0.087	0.139	63.197646	10.607026	689.89	789
6	GUIDE	used	87954552	8.33	3038	1.000	0.112	0.026	0.050	0.084	63.195345	11.171305	2145.88	2206
7	GUIDE	used	87950304	8.07	3037	1.000	-0.069	0.122	0.066	0.106	63.753878	10.748130	2423.69	-270

2.4 Star Slots

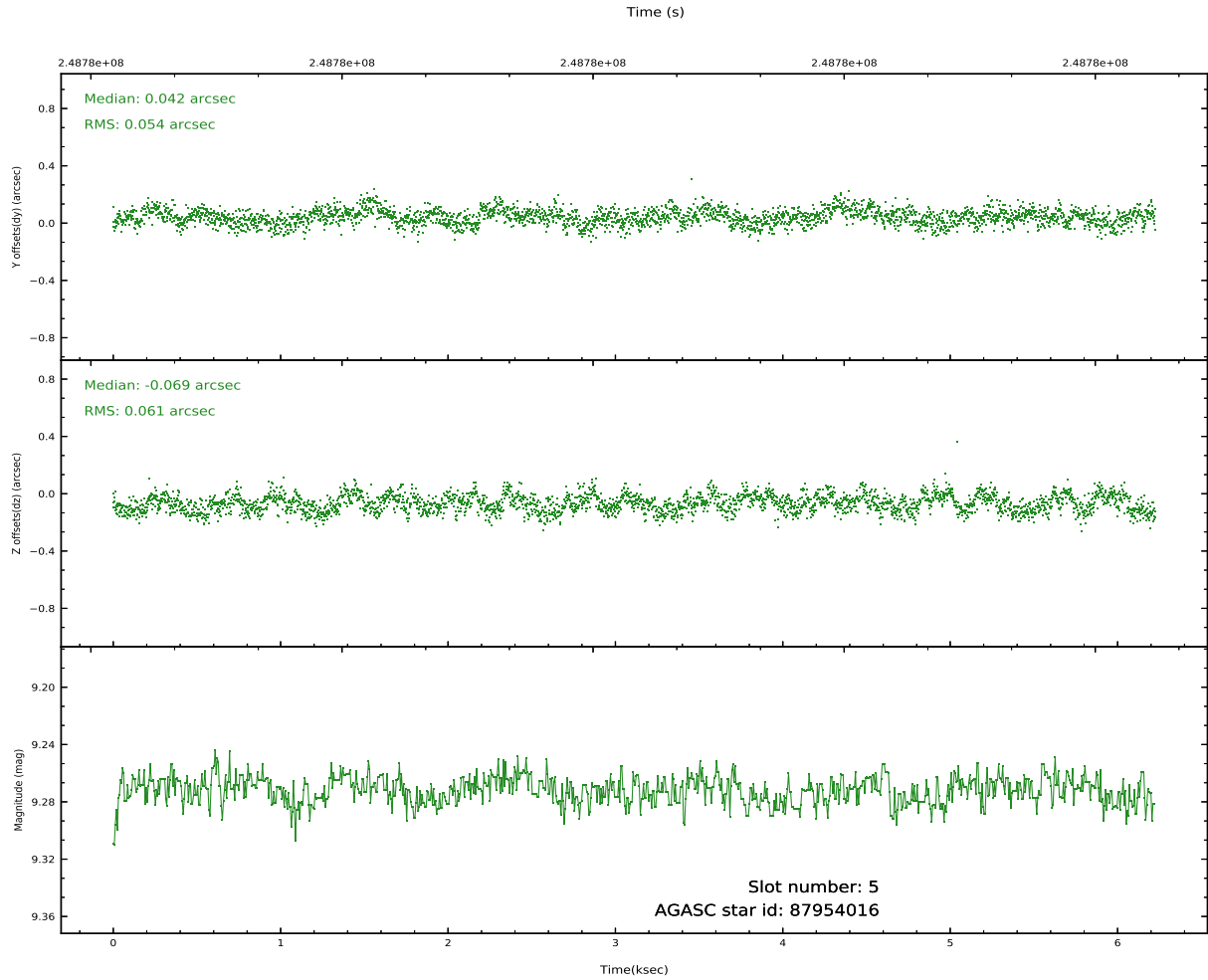
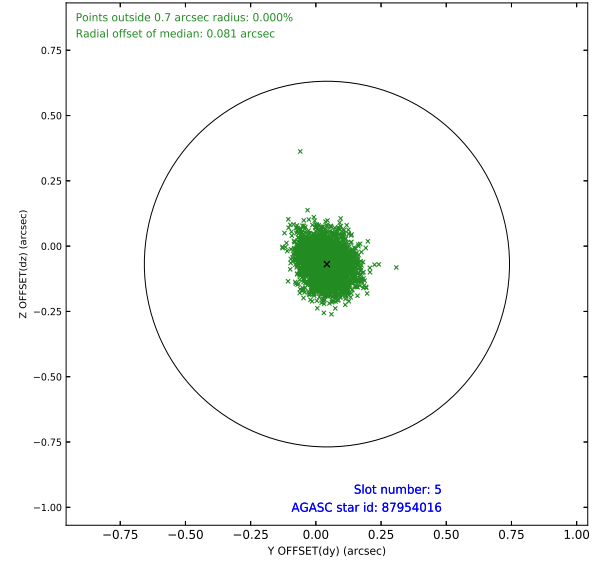
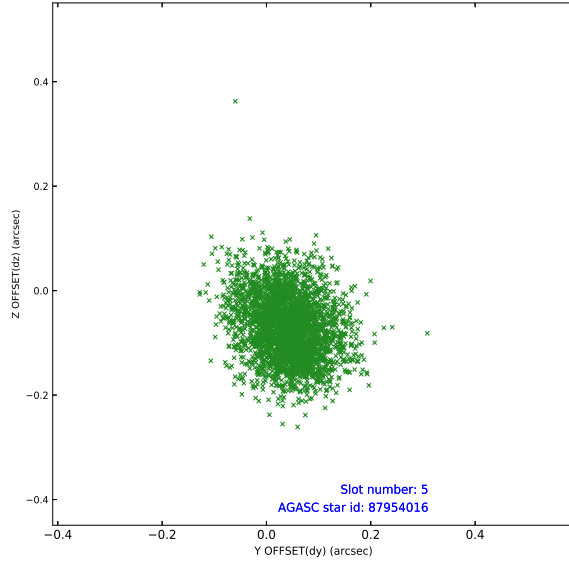
2.4.1 Slot 3



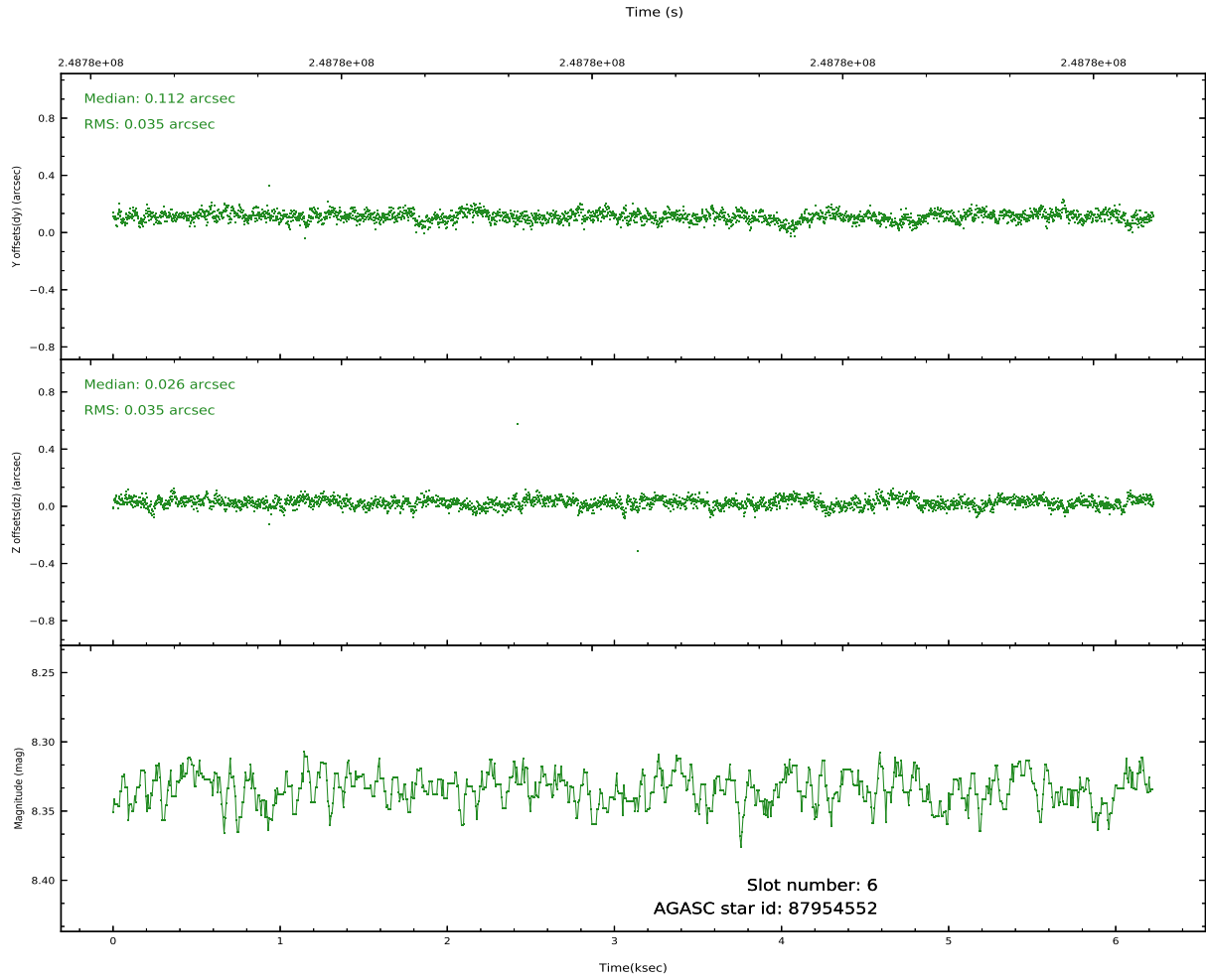
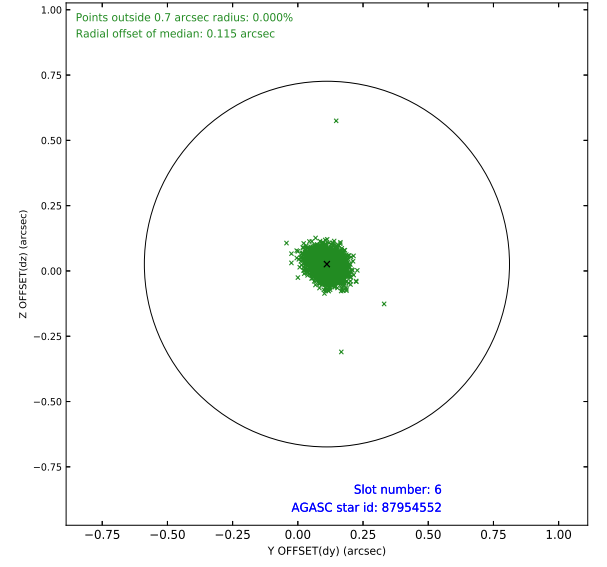
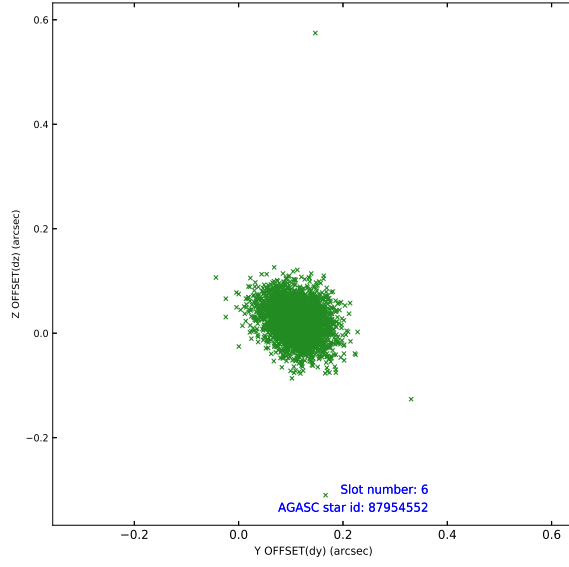
2.4.2 Slot 4



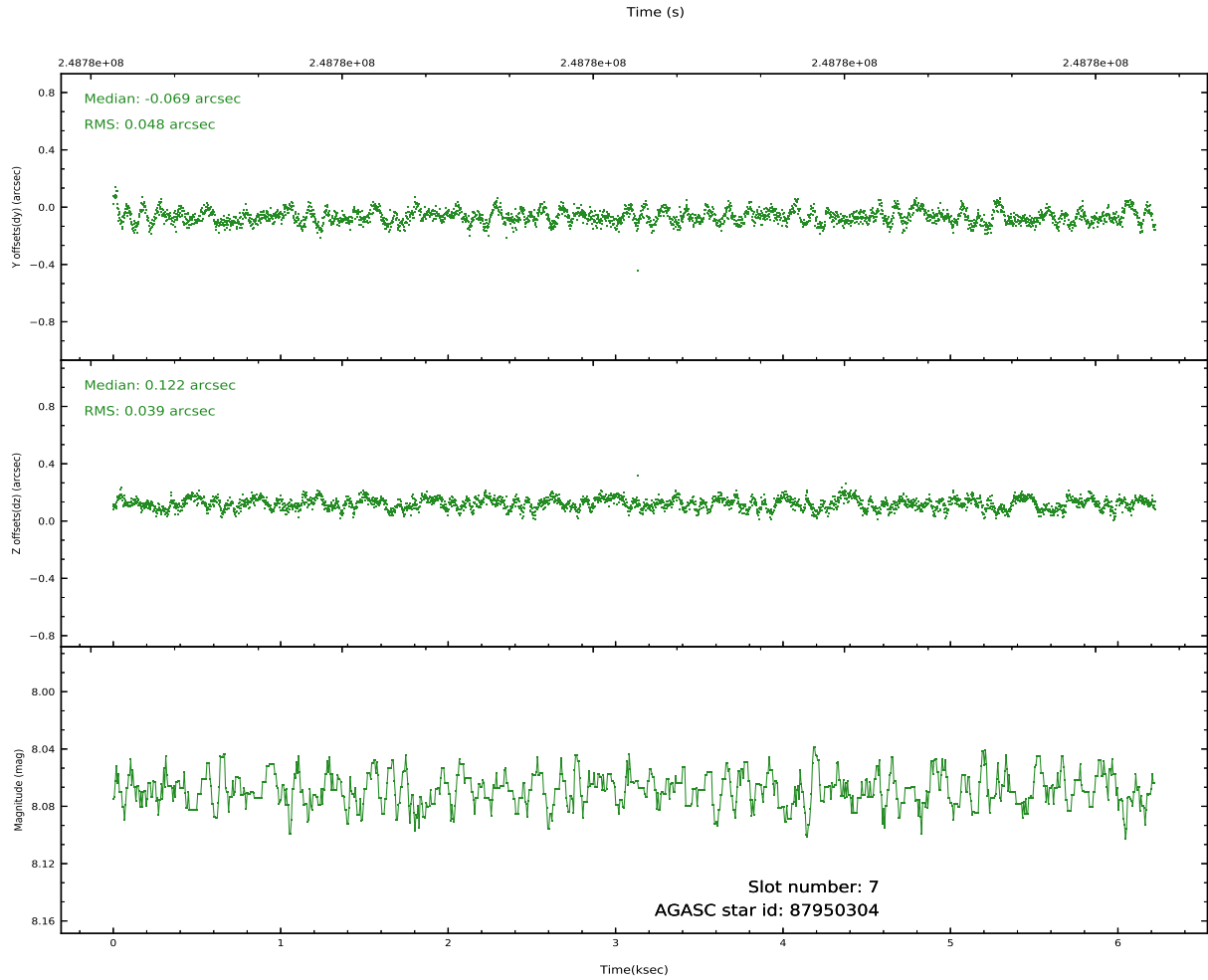
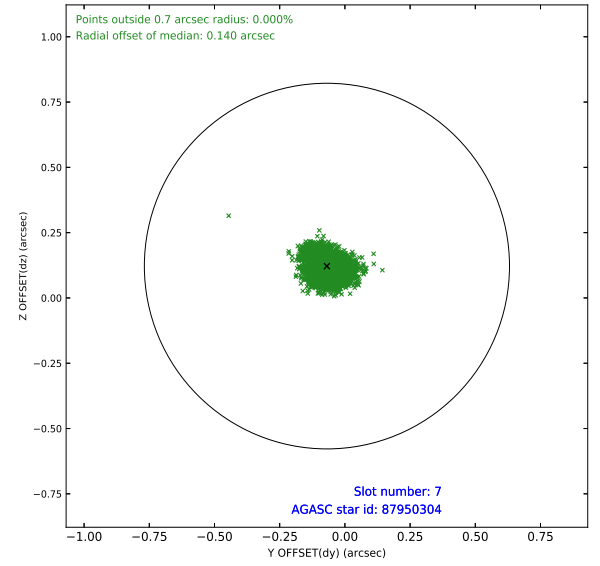
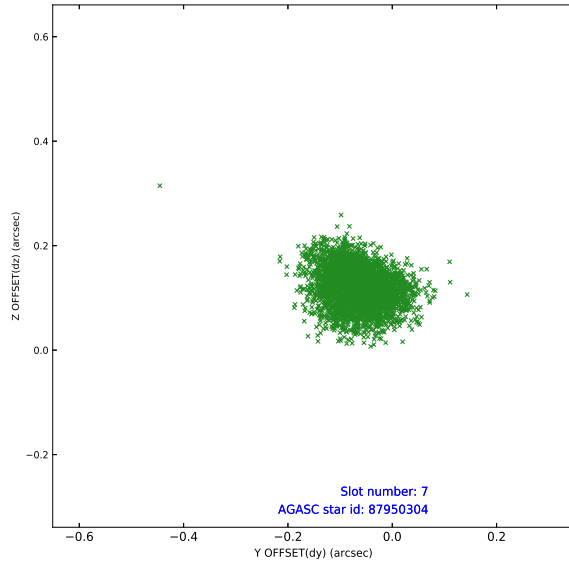
2.4.3 Slot 5



2.4.4 Slot 6

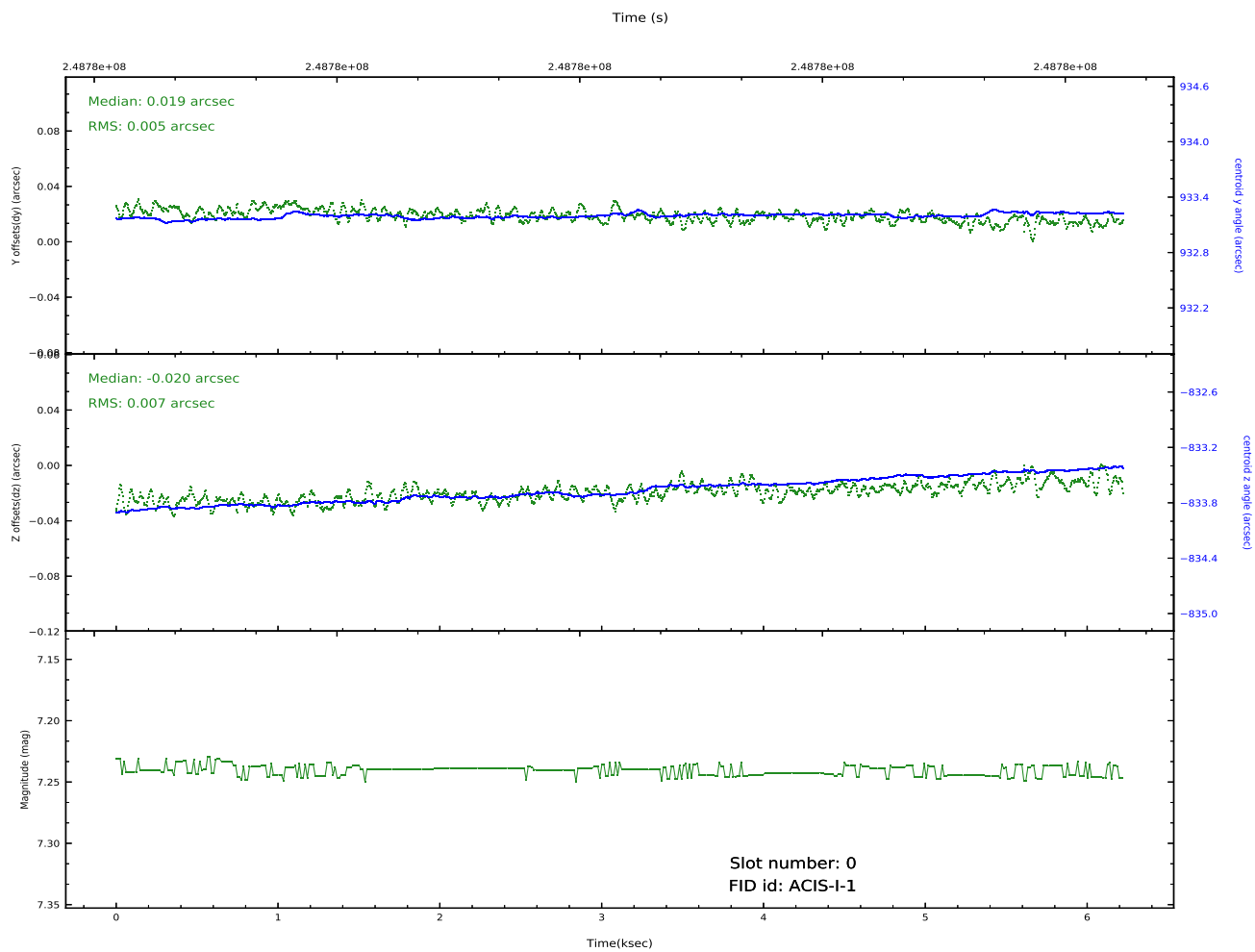
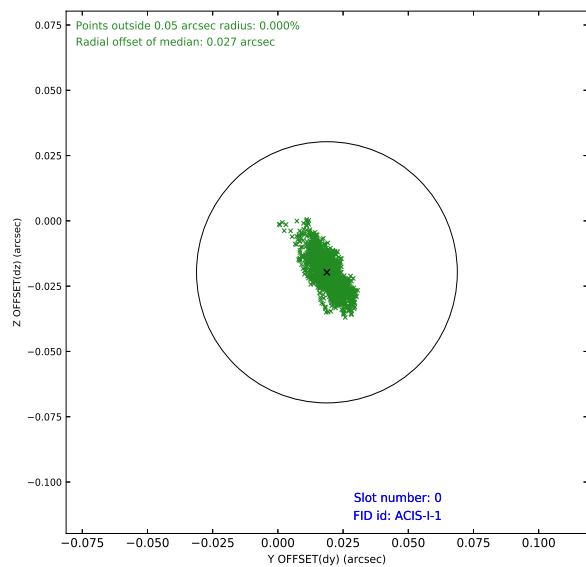
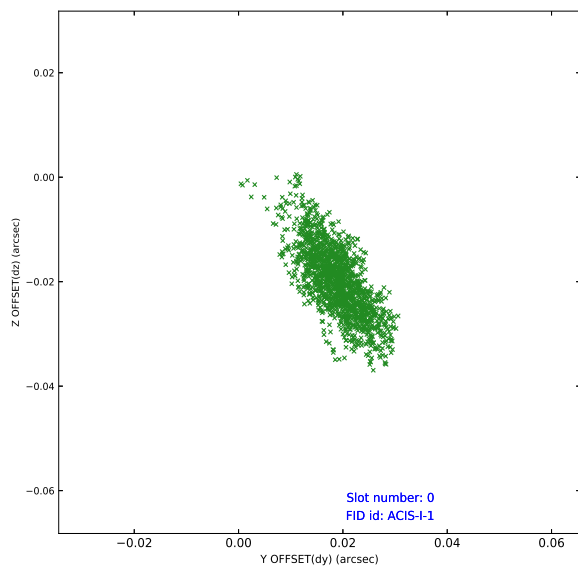


2.4.5 Slot 7

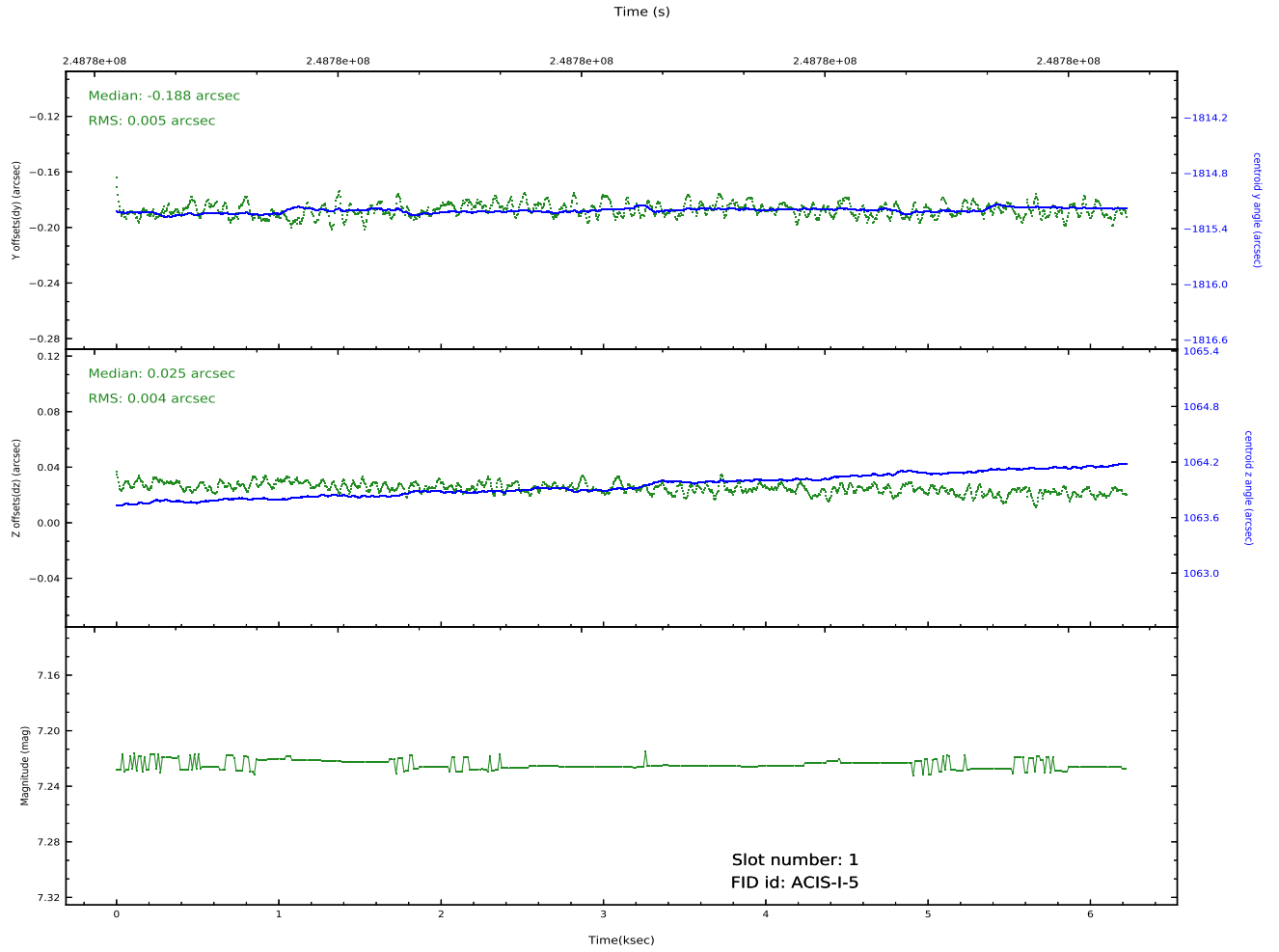
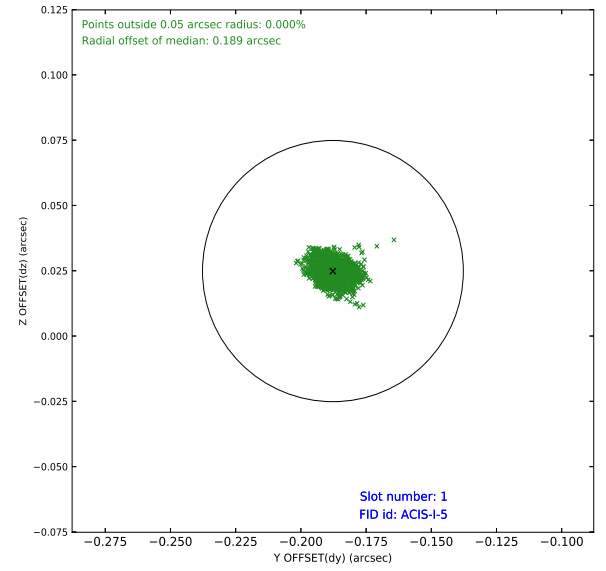
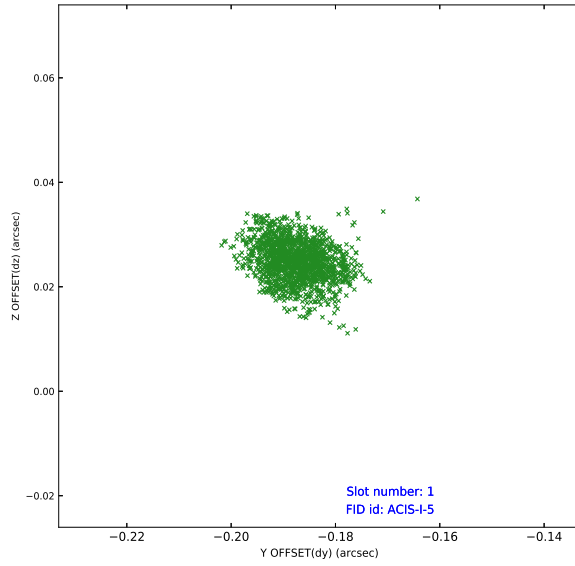


2.5 FID Slots

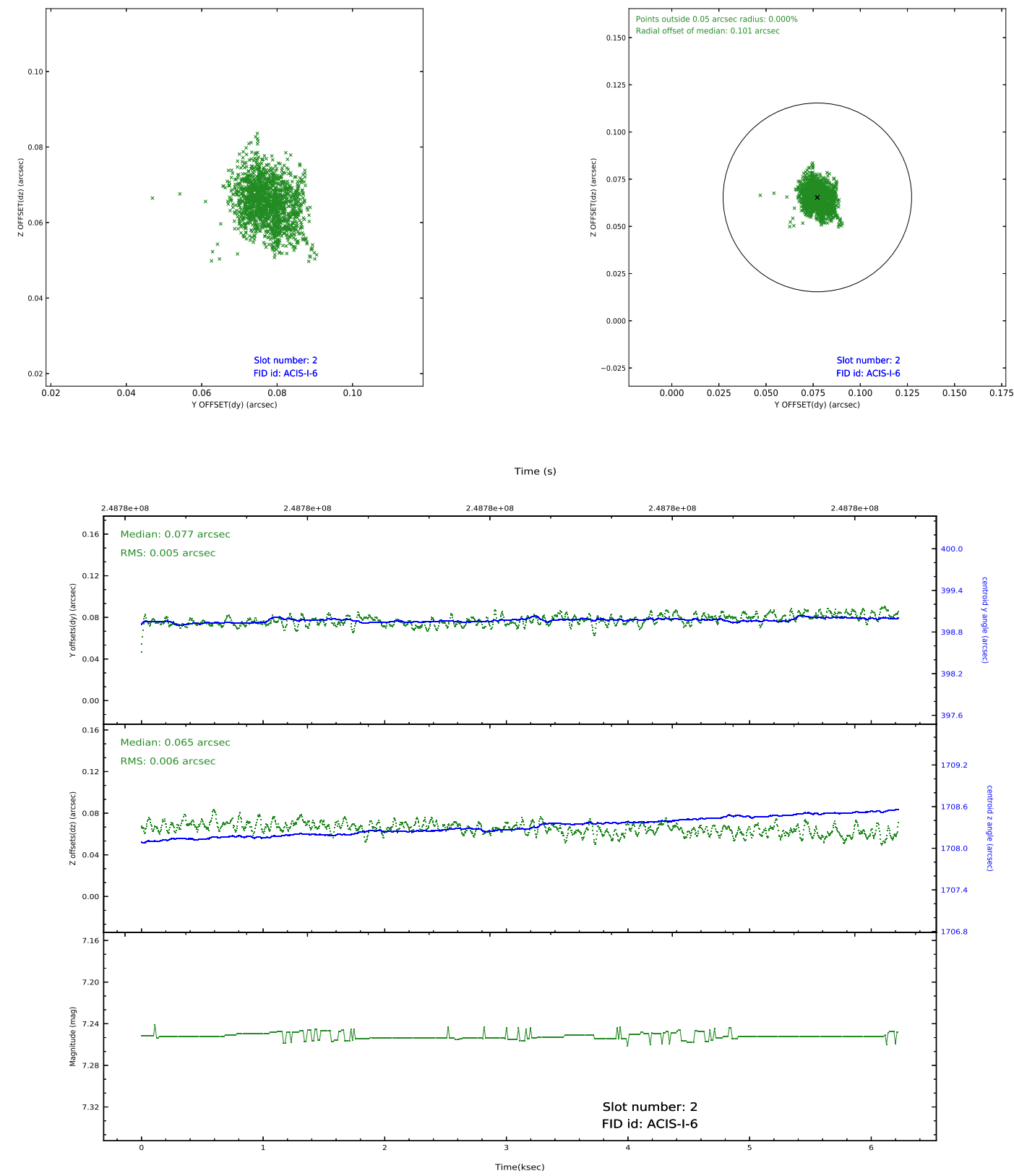
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.218559

A.2 Comments