

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6161 - L2 Version 4
Chandra X-Ray Center

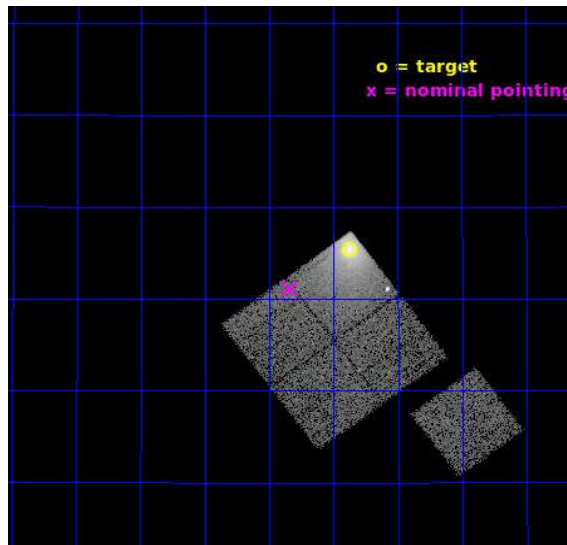
L2 Processing Date : Oct 7 2020

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1 Front

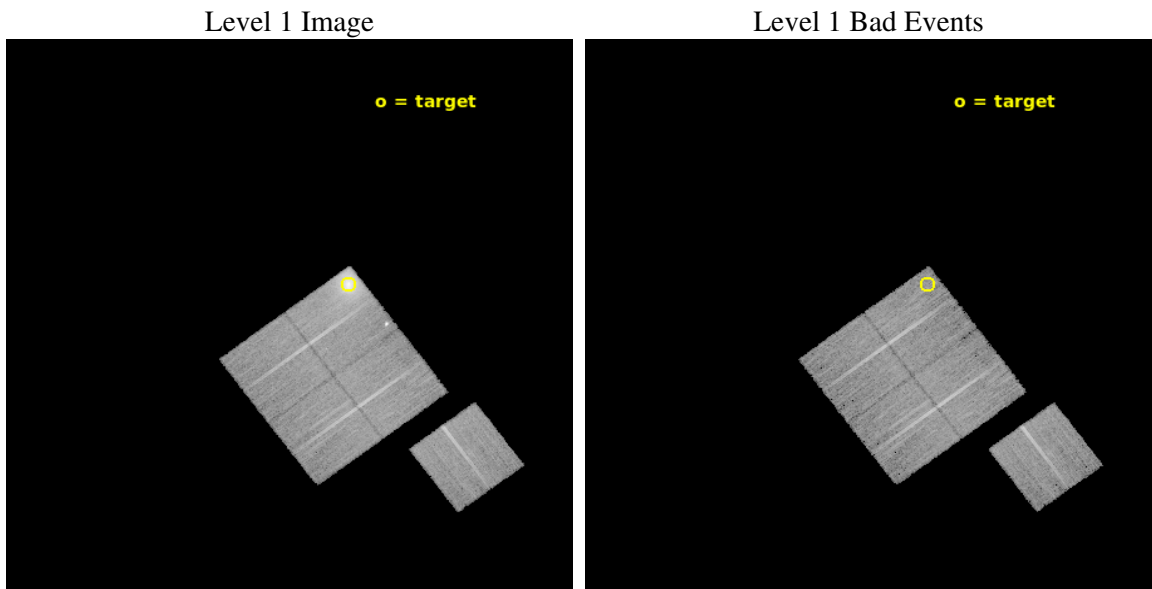
seq_num	890033	Sequence number
obs_id	6161	Observation id
title	Monitoring the Spatial Variation of the ACIS Contaminant with Abell 1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.33505397486	Nominal RA [deg]
dec_nom	26.518937989597	Nominal Dec [deg]
roll_nom	143.27916582172	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13770.199973494	Sum of GTIs [s]
livetime	13590.282173366	Livetime [s]
ontime0	13770.199973494	Sum of GTIs [s]
ontime1	13770.199973494	Sum of GTIs [s]
ontime2	13770.199973494	Sum of GTIs [s]
ontime3	13763.917973101	Sum of GTIs [s]
ontime6	13770.199973494	Sum of GTIs [s]
l2events	102219	Number of level 2 events



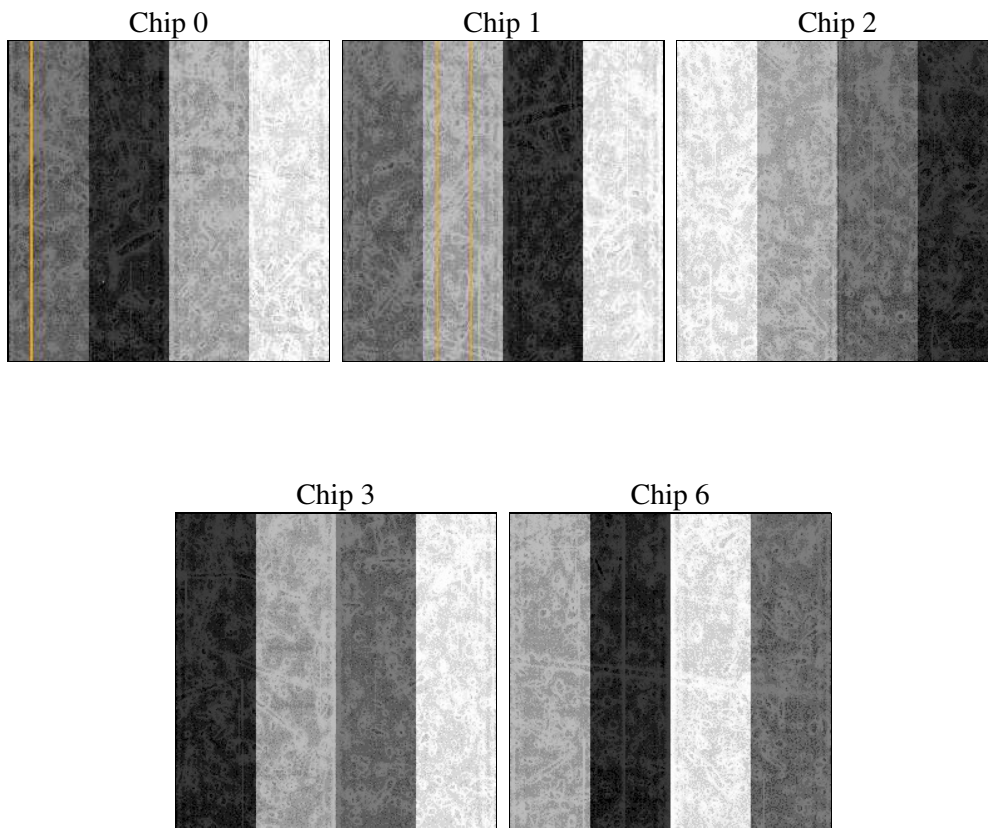
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13770.199973494	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	13770.199973494	Sum of GTIs [s]
date	2020-10-07T12:17:51	Date and time of file creation	ontime1	13770.199973494	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	13770.199973494	Sum of GTIs [s]
			ontime3	13763.917973101	Sum of GTIs [s]
			ontime6	13770.199973494	Sum of GTIs [s]
			l1events	494532	Number of level 1 events

2.1.4 Events

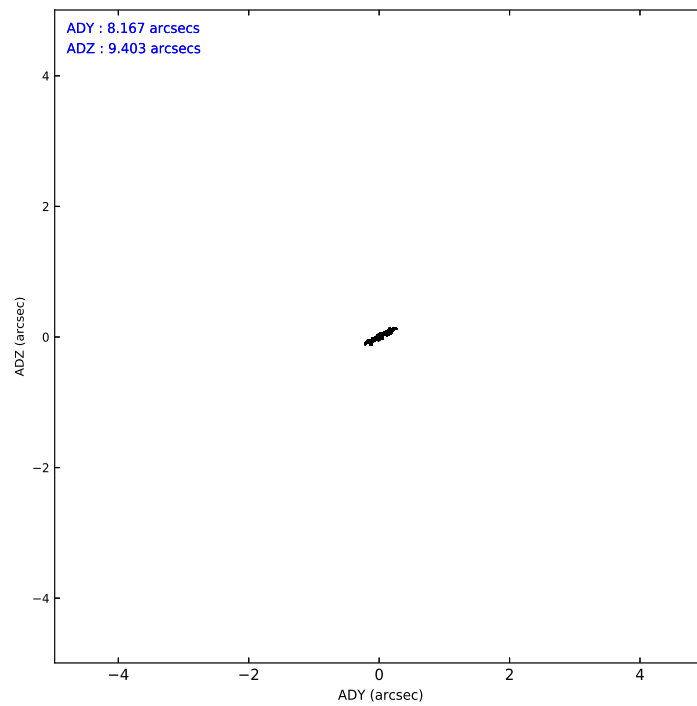
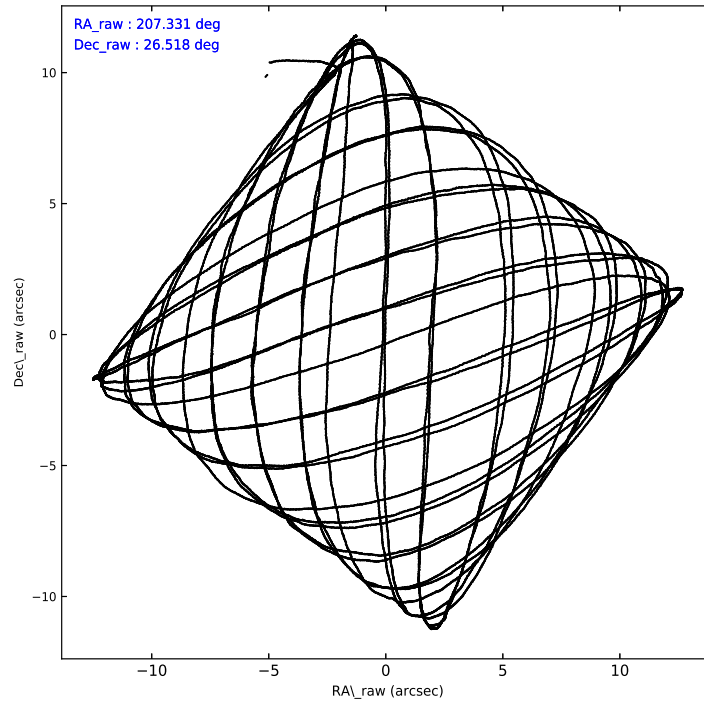
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	152201	81074	92094	84716	84447
rejected events	75194	70372	82377	76310	75851
rejected %	49%	86%	89%	90%	89%

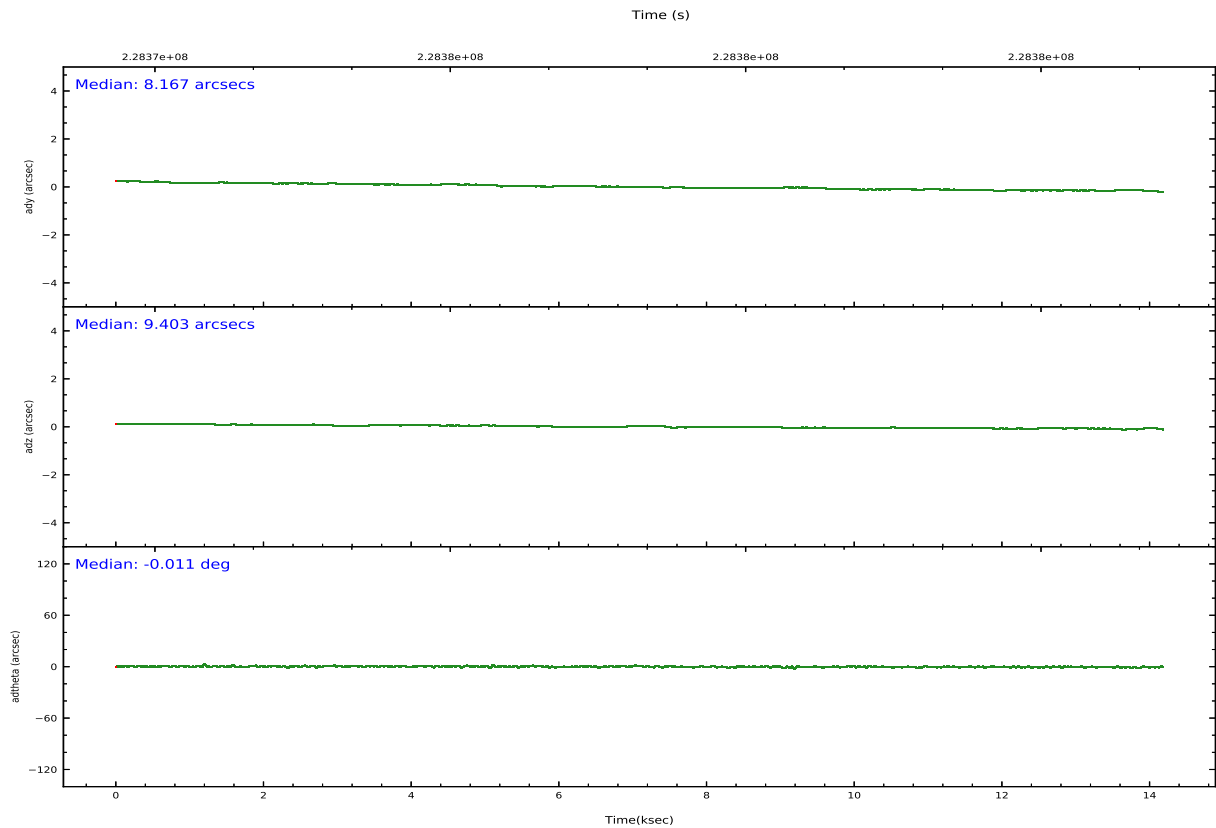
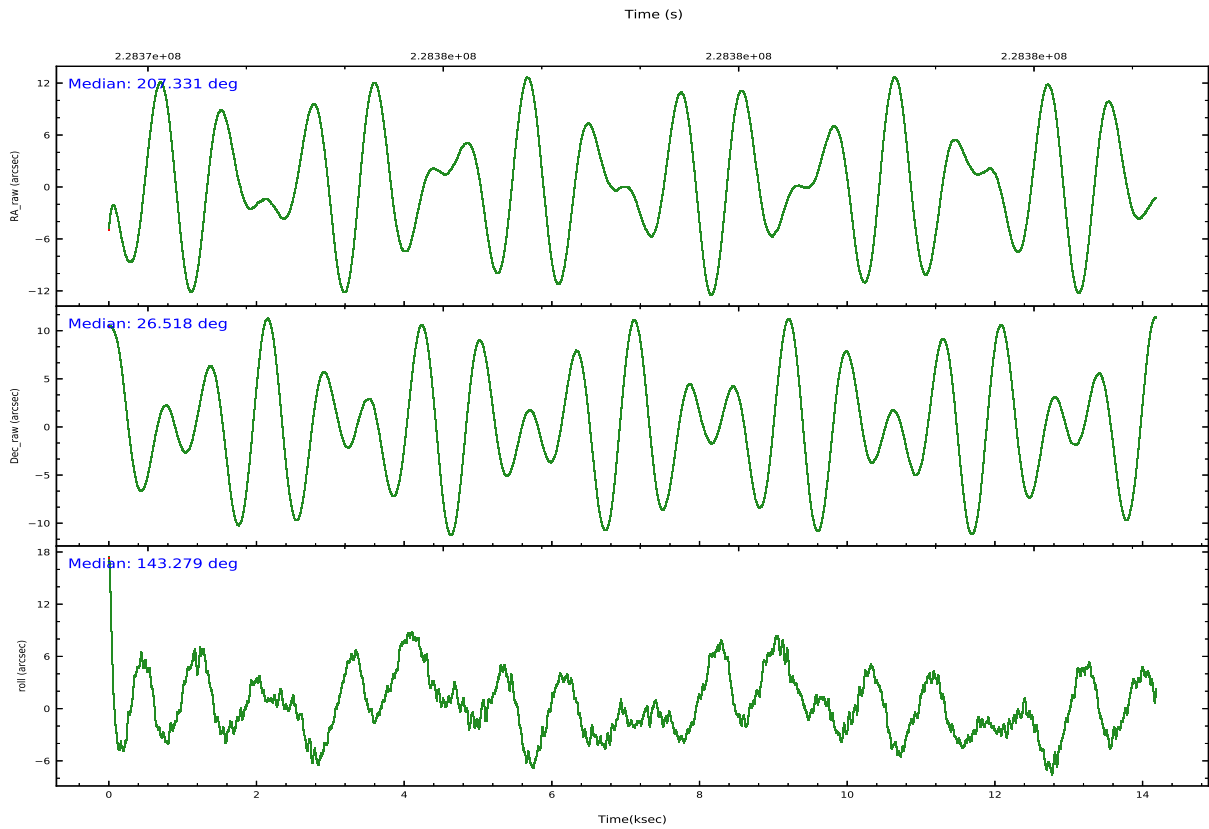
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	58125	4294	4071	3065	3004
	38%	5%	4%	3%	3%
grade 1 events	279	52	47	45	29
	0%	0%	0%	0%	0%
grade 2 events	9011	2159	2067	1794	1804
	5%	2%	2%	2%	2%
grade 3 events	3141	1107	974	950	964
	2%	1%	1%	1%	1%
grade 4 events	3118	1128	956	906	968
	2%	1%	1%	1%	1%
grade 5 events	3295	3363	2859	3274	3268
	2%	4%	3%	3%	3%
grade 6 events	3649	2016	1653	1695	1861
	2%	2%	1%	2%	2%
grade 7 events	71583	66955	79467	72987	72549
	47%	82%	86%	86%	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	207.361487	207.33505397486	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.515064	26.518937989597	Alternating exposures requested	N	N
[deg] Pointing Roll	143.052966	143.27916582172	[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	-256.092463	-256.0955850403938			
[mm] SIM translation stage offset	22.5	22.50313203746413			
[s] Observation start time (MET)	228371654.184000	228370530.09878			
Observation start date	2005-03-28T04:33:10	2005-03-28T04:15:30			
[s] Observation end time (MET)	228385654.184000	228385787.73698			
Observation end date	2005-03-28T08:26:30	2005-03-28T08:29:47			
Read mode	TIMED	TIMED			

2.3 Aspect





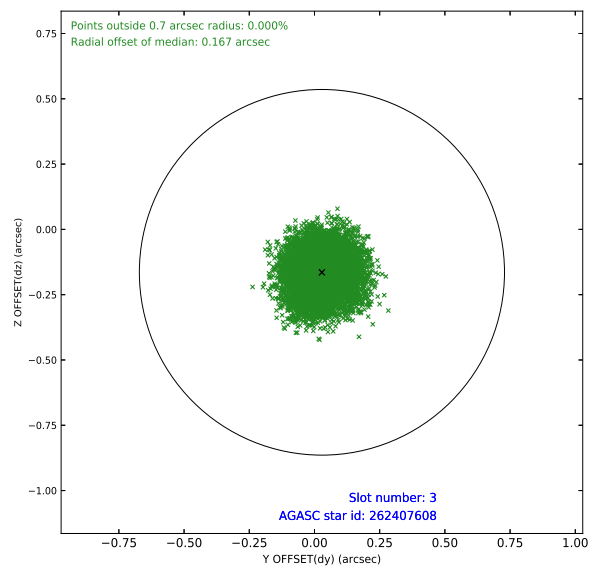
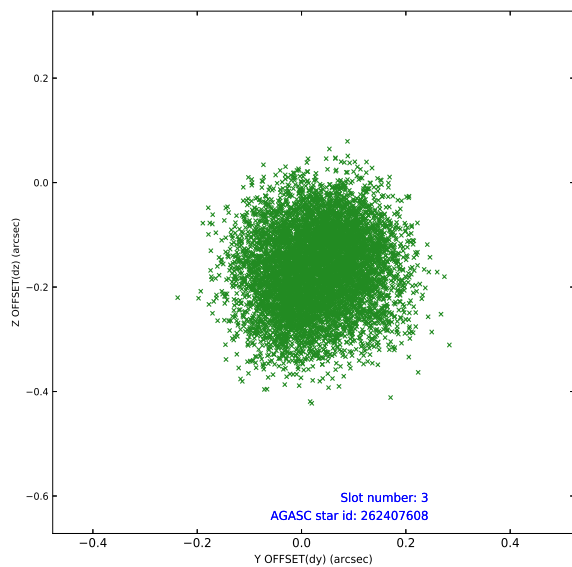
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.27	3459	1.000	0.085	-0.736	0.010	0.018	0.000000	0.000000	-761.11	-379
1	FID		ACIS-I-5	7.24	3459	1.000	-0.195	0.509	0.009	0.015	0.000000	0.000000	-1816.96	1527
2	FID		ACIS-I-6	7.25	3460	1.000	0.018	0.295	0.007	0.011	0.000000	0.000000	396.75	2172
3	GUIDE	used	262407608	9.37	6914	1.000	0.029	-0.164	0.118	0.180	207.378401	26.435507	-215.52	196
4	GUIDE	used	262407800	10.09	6912	1.000	-0.117	0.029	0.198	0.310	207.321181	27.251762	1698.34	-2040
5	GUIDE	used	262408096	9.34	6915	1.000	0.010	0.012	0.115	0.181	207.011678	26.515421	902.89	675
6	GUIDE	used	262408936	9.65	6913	1.000	0.134	0.098	0.128	0.207	207.154731	26.726554	989.70	-208
7	GUIDE	used	262411960	9.66	6912	1.000	-0.032	0.023	0.114	0.186	207.327895	25.881727	-1283.40	1887

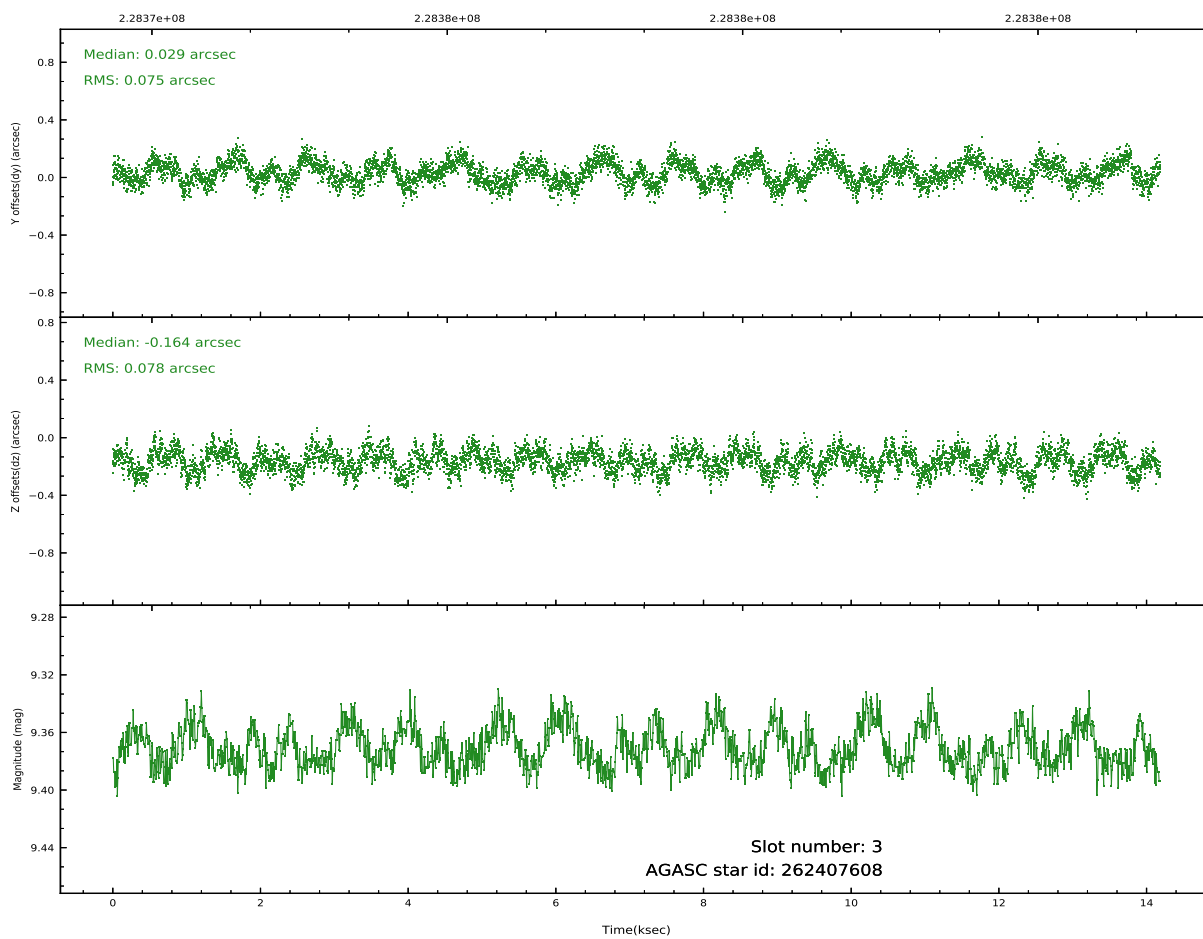
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2.4 Star Slots

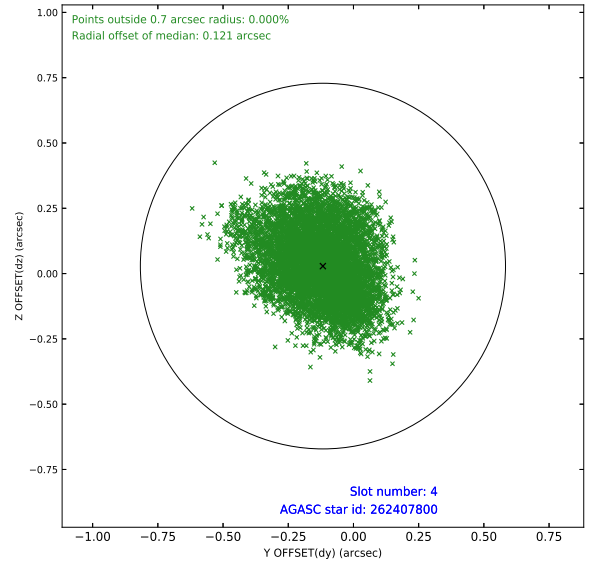
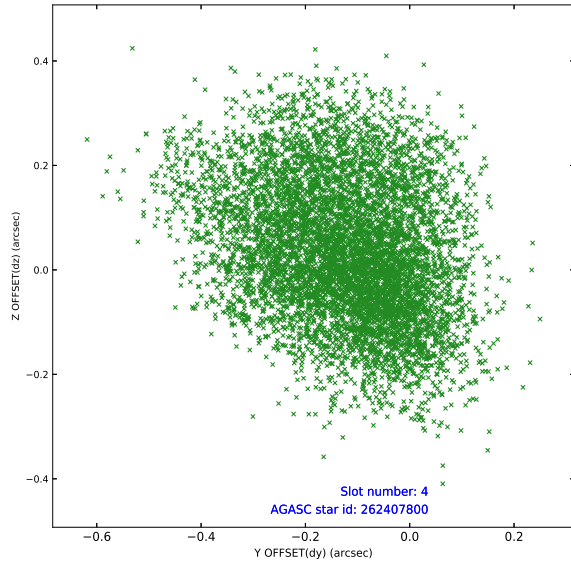
2.4.1 Slot 3



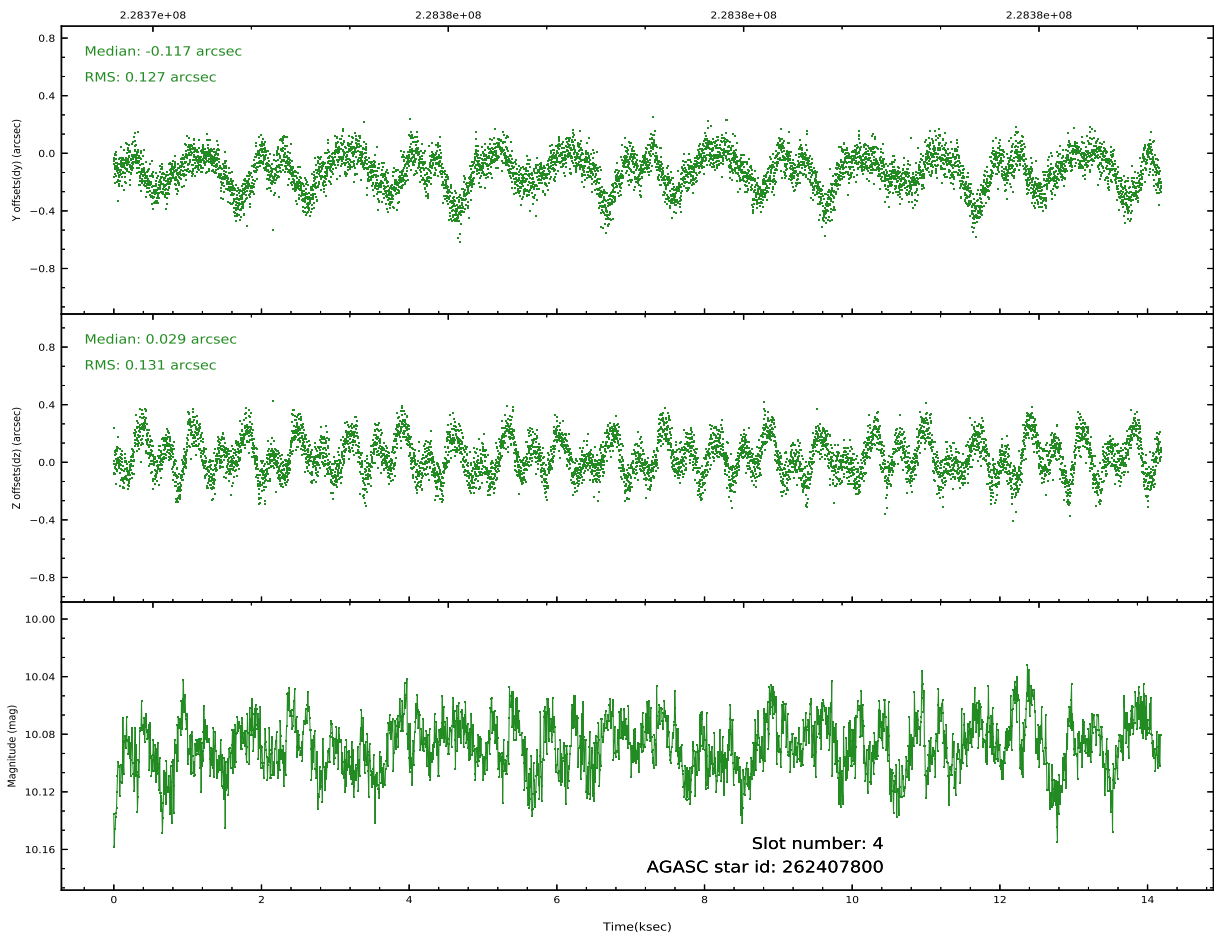
Time (s)



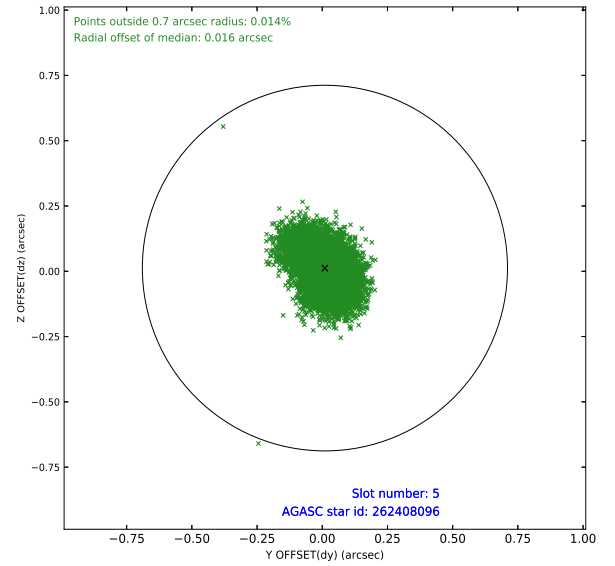
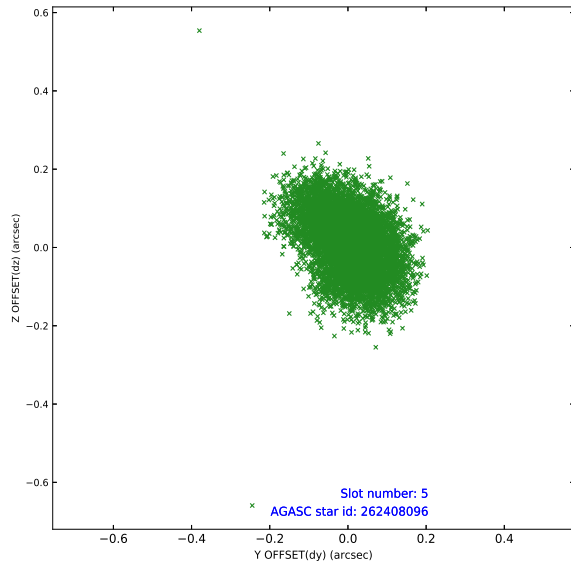
2.4.2 Slot 4



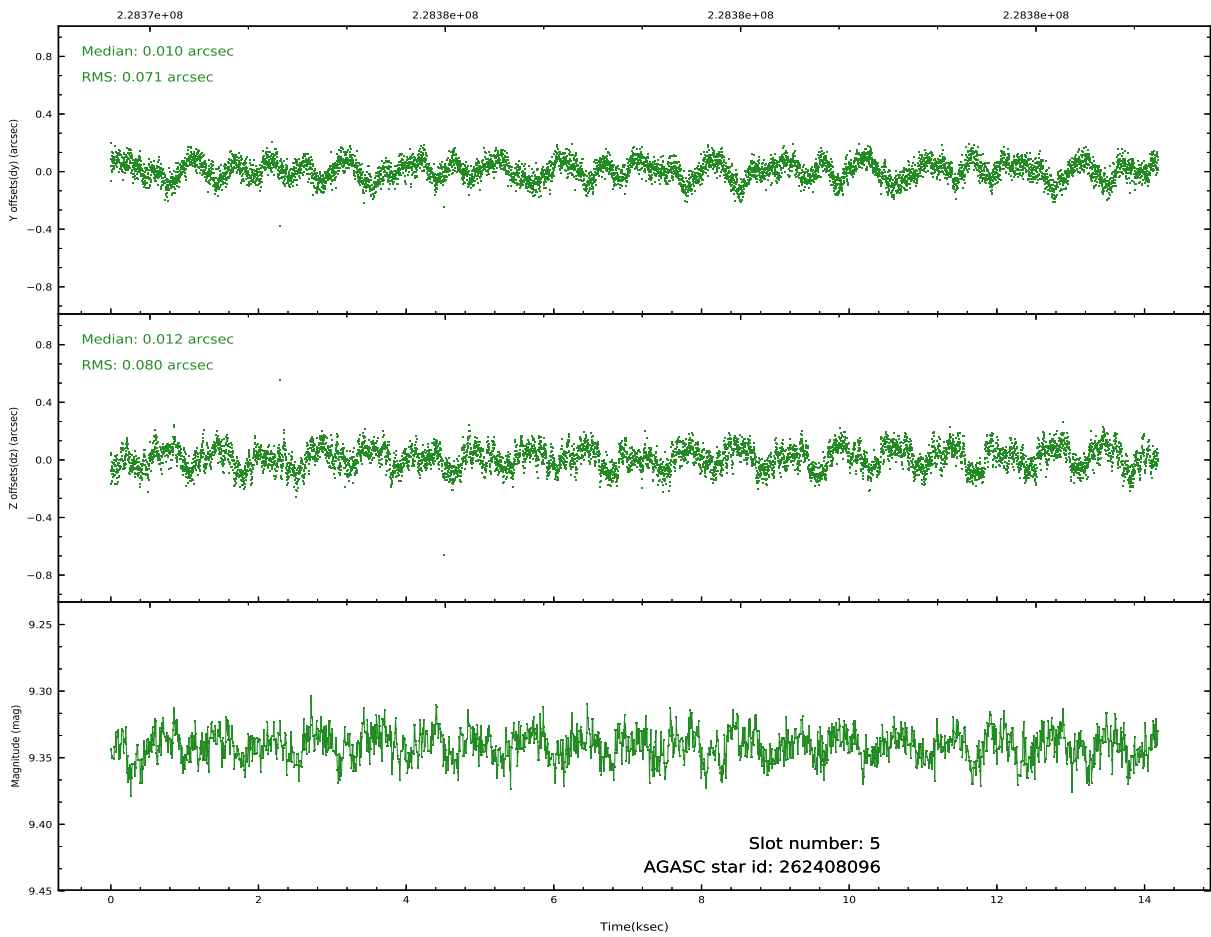
Time (s)



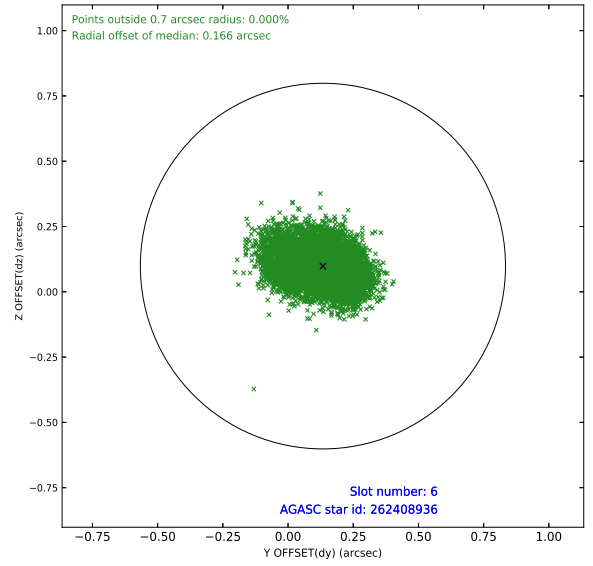
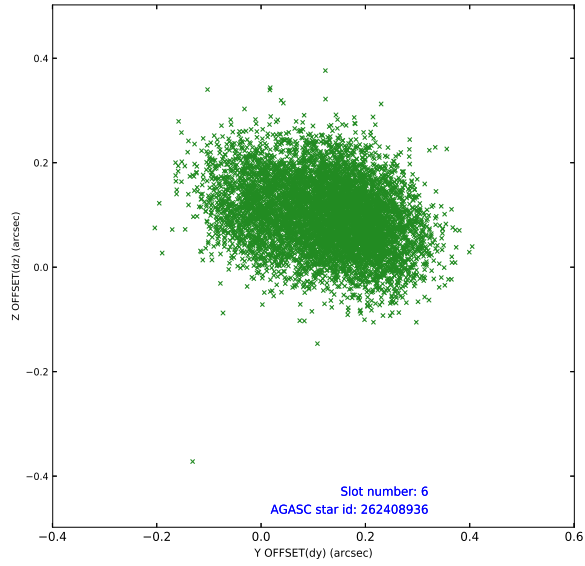
2.4.3 Slot 5



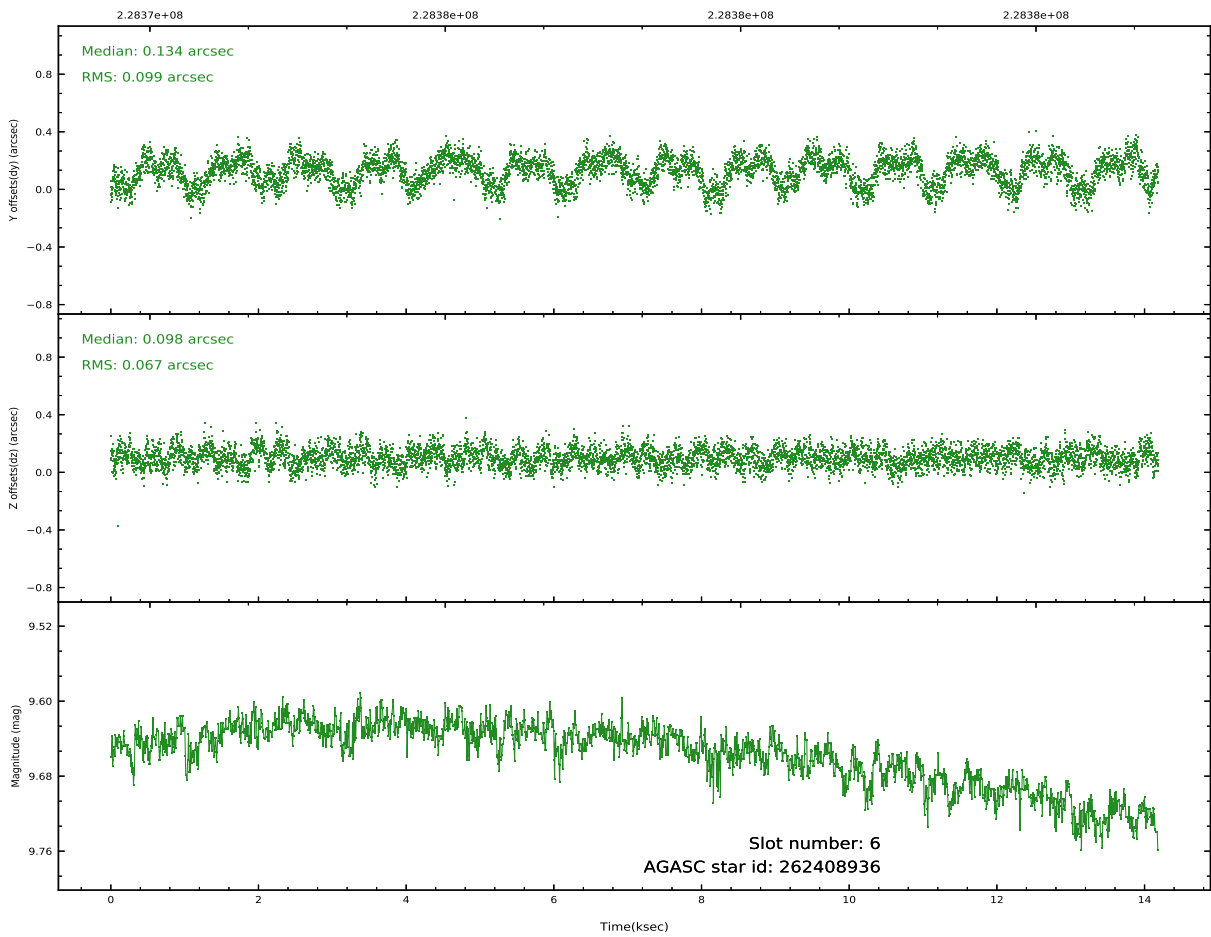
Time (s)



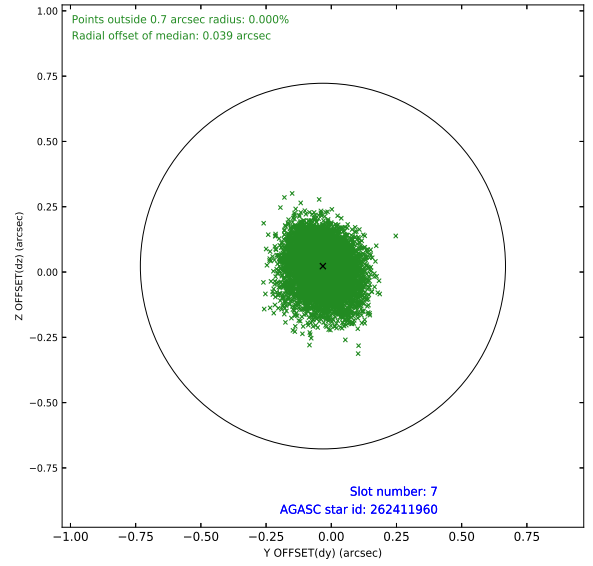
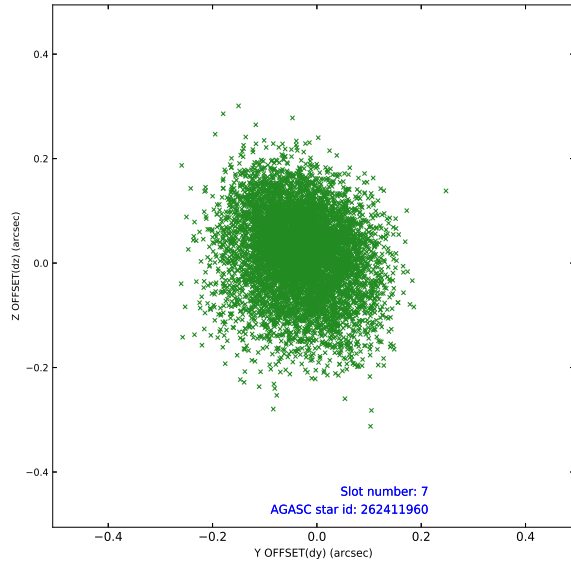
2.4.4 Slot 6



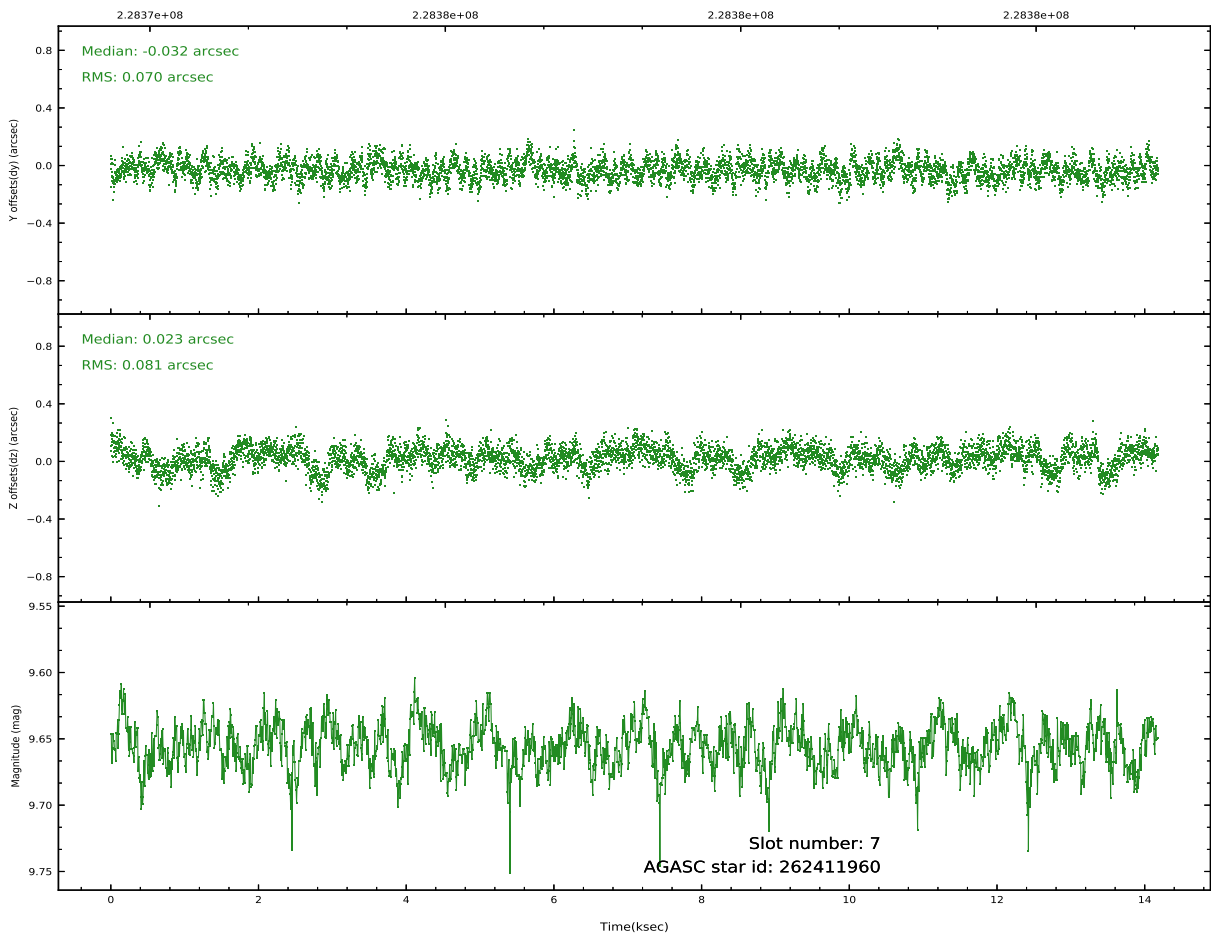
Time (s)



2.4.5 Slot 7

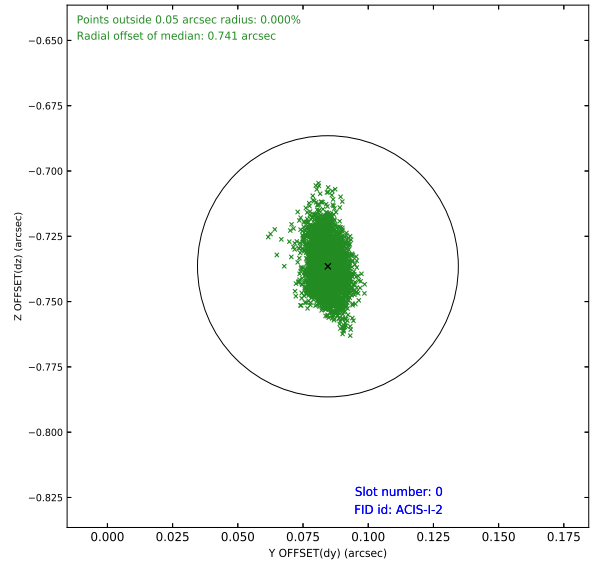
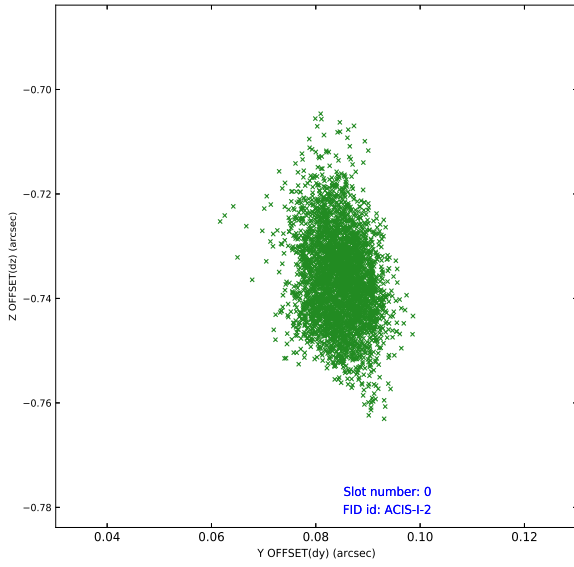


Time (s)

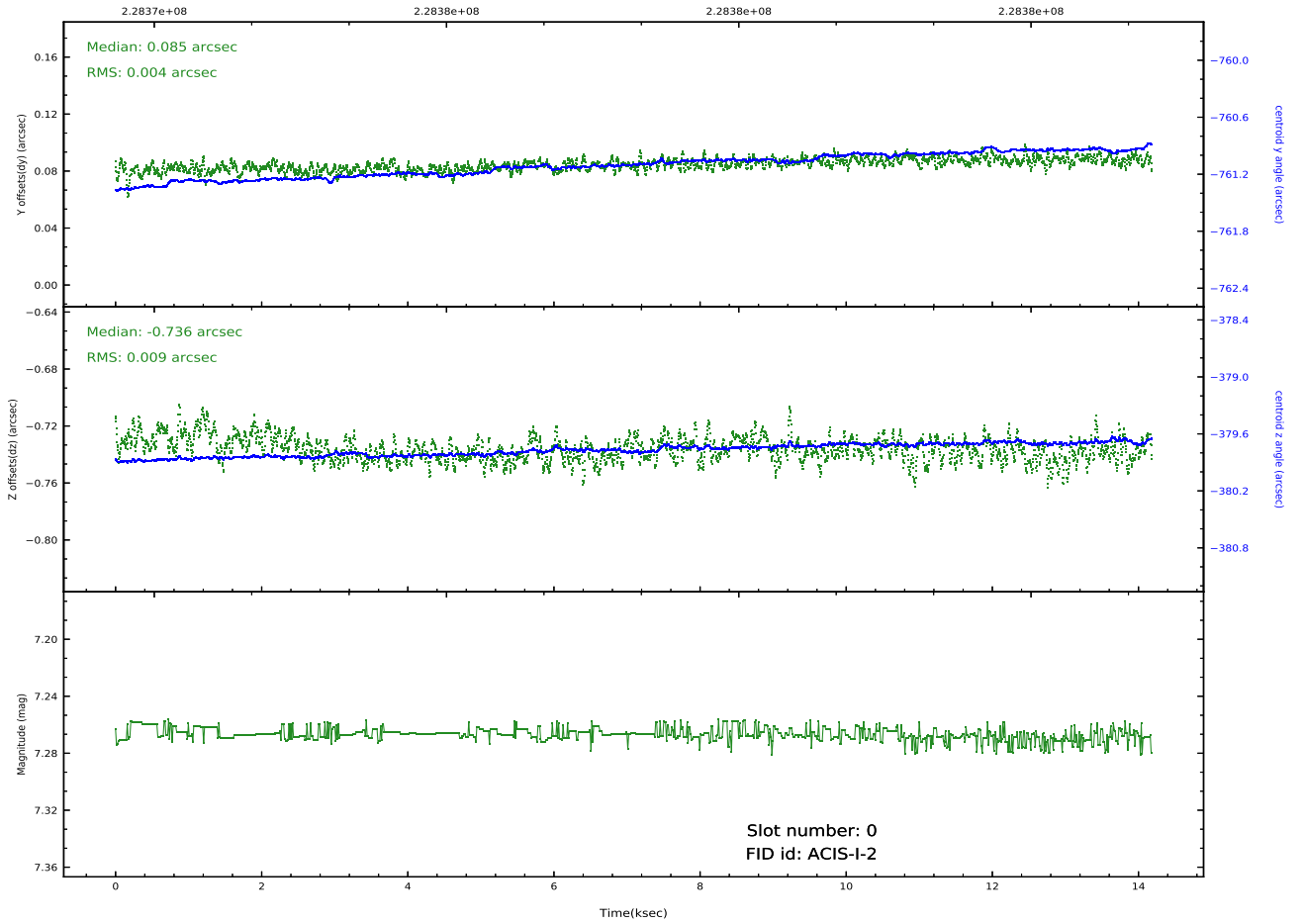


2.5 FID Slots

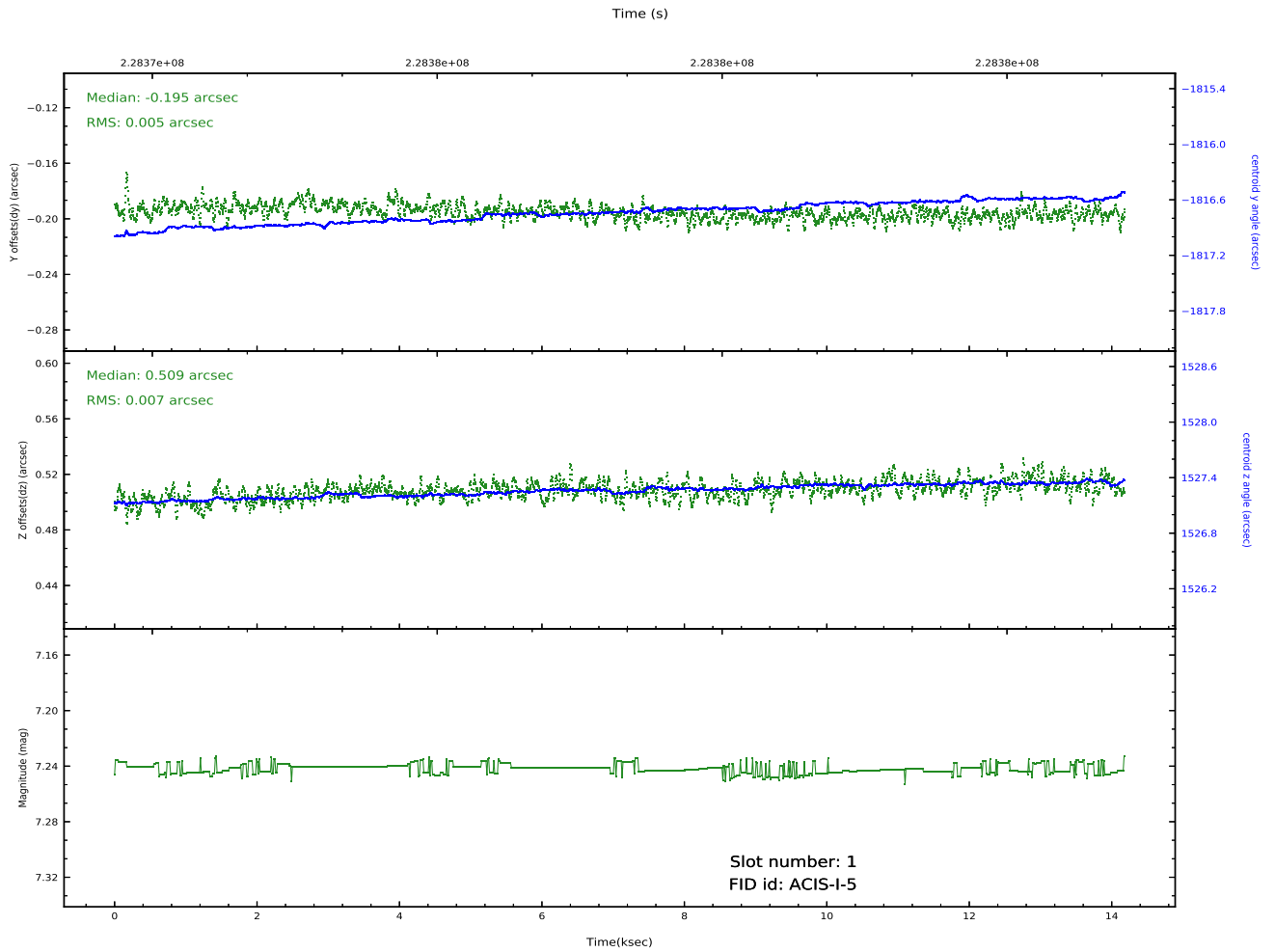
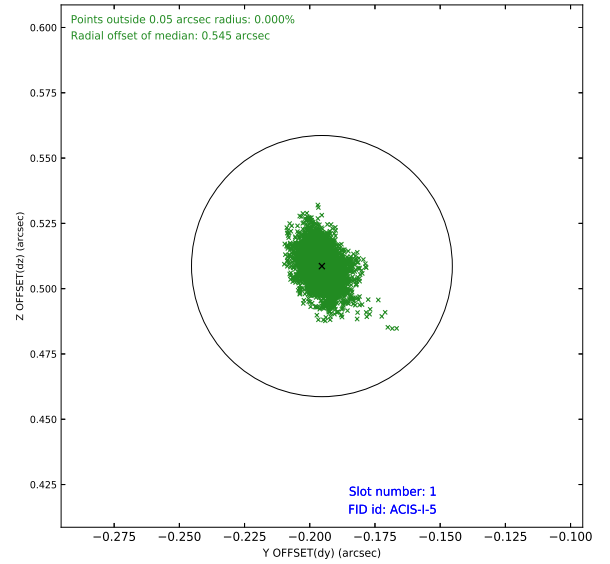
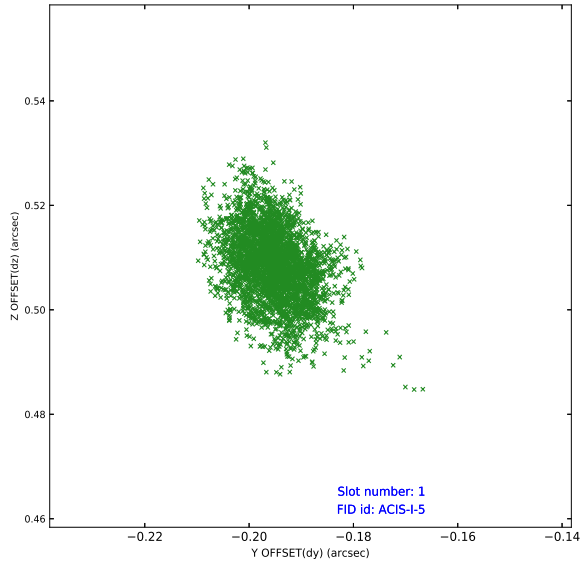
2.5.1 Slot 0



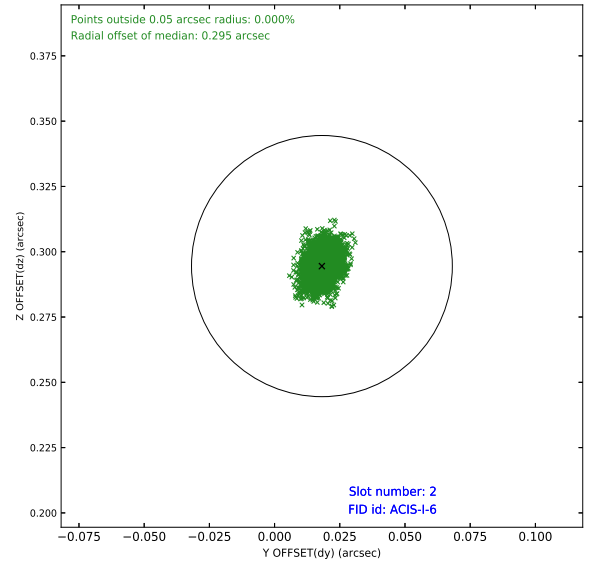
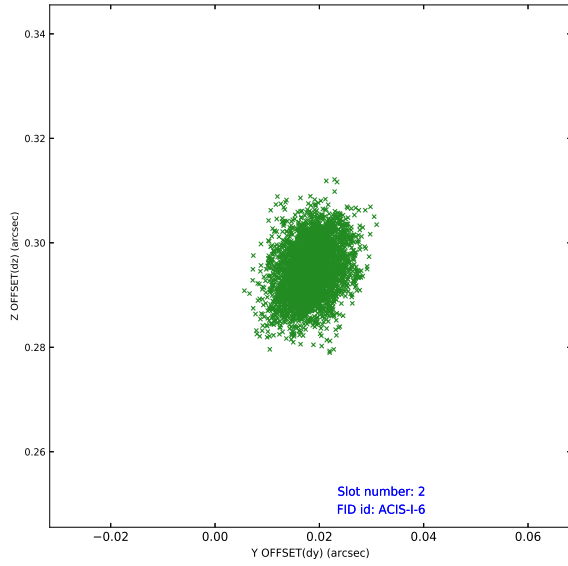
Time (s)



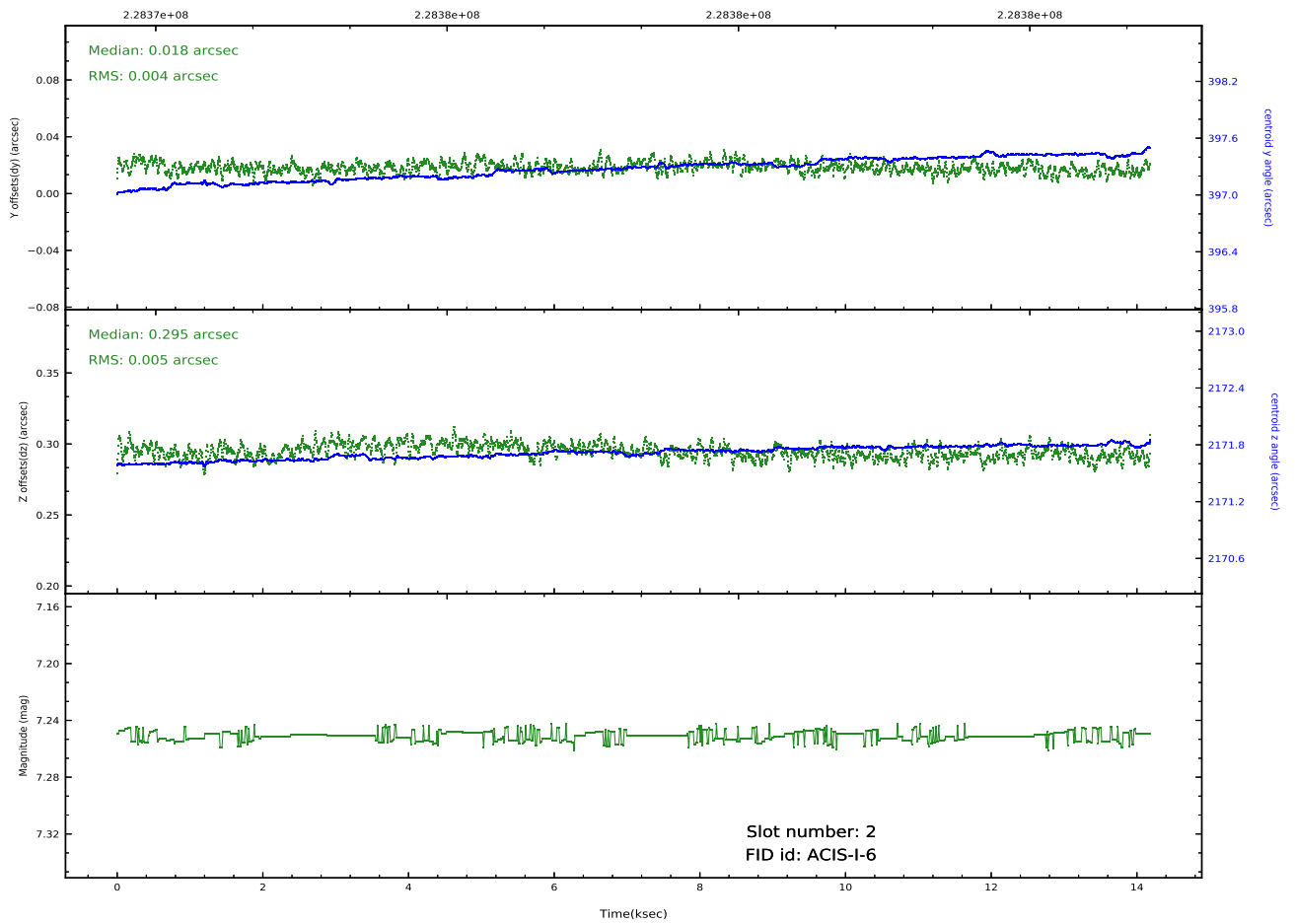
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.77

A.2 Comments

This observation was performed with a large SIM offset, per PI request. As a result, the fid light positions are offset beyond normally expected ranges, but the fid light position correction has compensated for this offset.