

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6163 - L2 Version 4
Chandra X-Ray Center

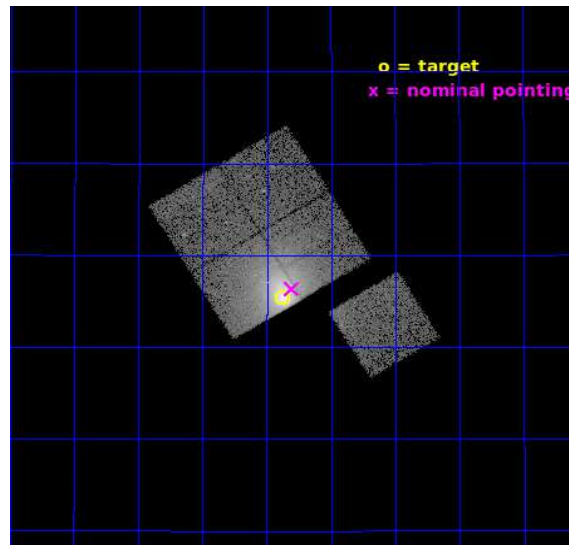
L2 Processing Date : Oct 7 2020

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1 Front

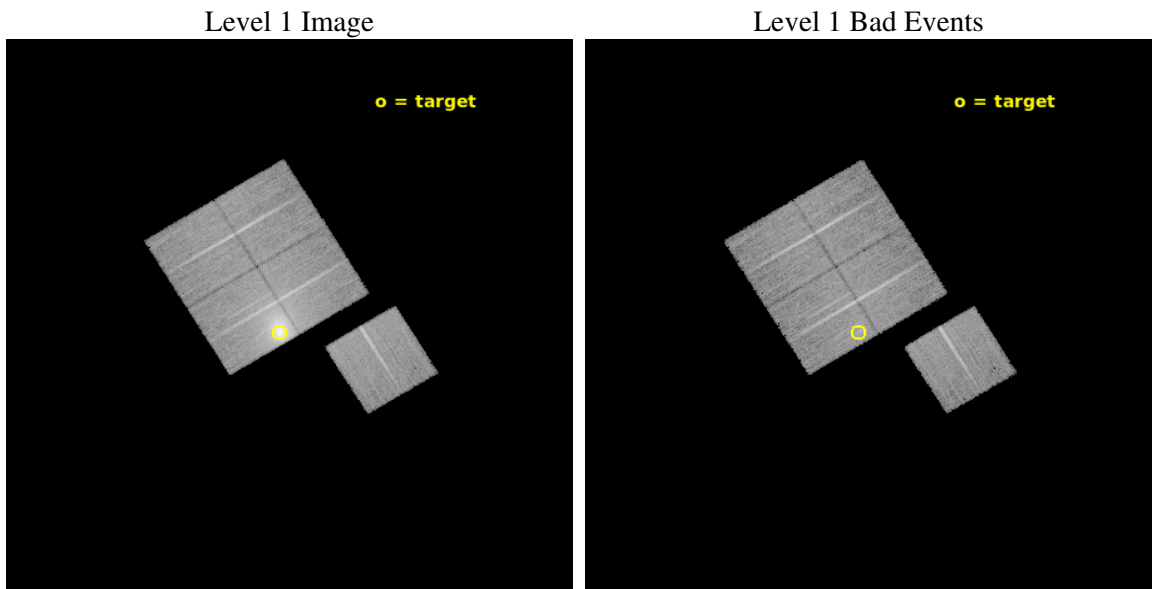
seq_num	890035	Sequence number
obs_id	6163	Observation id
title	Monitoring the Spatial Variation of the ACIS Contaminant with Abell 1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.20111722496	Nominal RA [deg]
dec_nom	26.60628560732	Nominal Dec [deg]
roll_nom	148.55587132605	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15049.616305262	Sum of GTIs [s]
livetime	14852.981988867	Livetime [s]
ontime0	15049.493185252	Sum of GTIs [s]
ontime1	15049.534225255	Sum of GTIs [s]
ontime2	15046.434294909	Sum of GTIs [s]
ontime3	15049.616305262	Sum of GTIs [s]
ontime6	15049.452145249	Sum of GTIs [s]
l2events	143209	Number of level 2 events



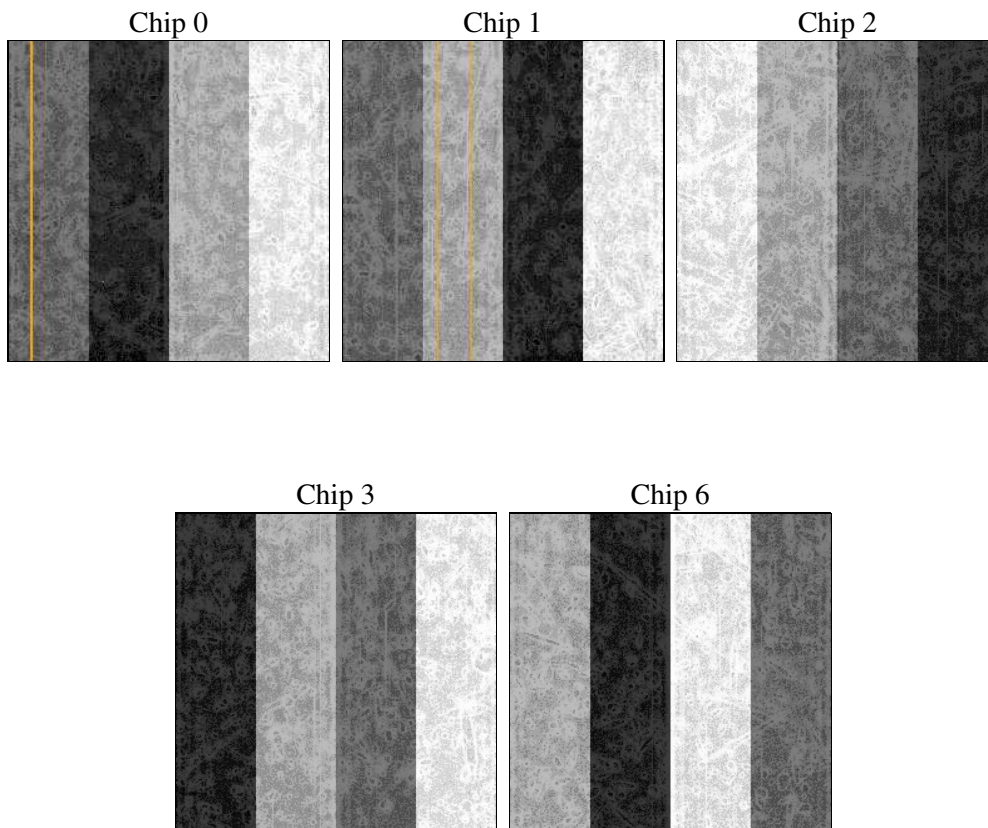
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15049.616305262	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	15049.493185252	Sum of GTIs [s]
date	2020-10-07T12:25:59	Date and time of file creation	ontime1	15049.534225255	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15046.434294909	Sum of GTIs [s]
			ontime3	15049.616305262	Sum of GTIs [s]
			ontime6	15049.452145249	Sum of GTIs [s]
			l1events	568953	Number of level 1 events

2.1.4 Events

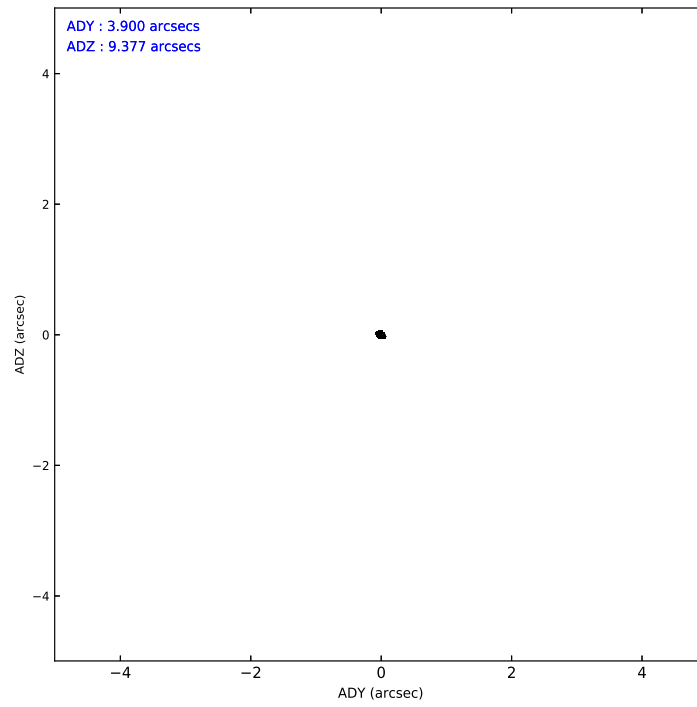
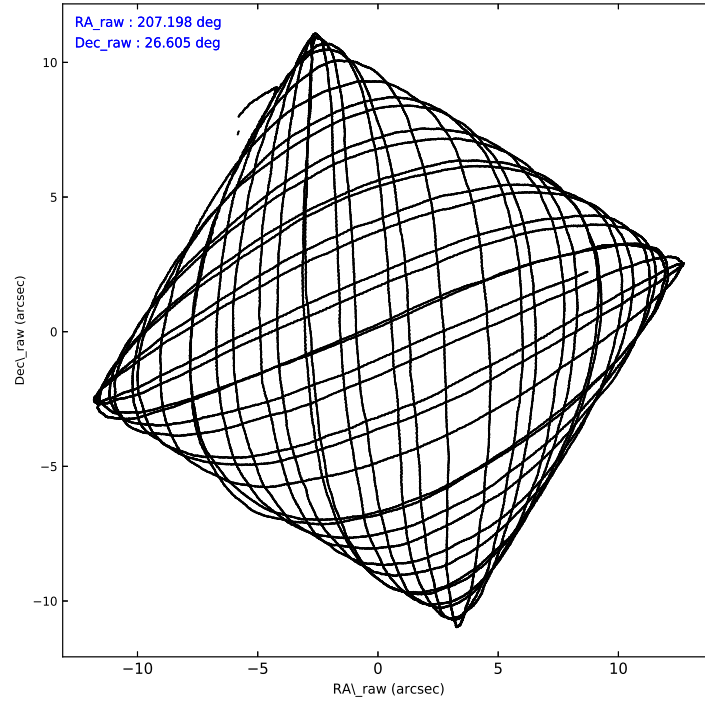
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	89449	91430	108690	183513	95871
rejected events	78766	79373	83691	88069	84387
rejected %	88%	86%	76%	47%	88%

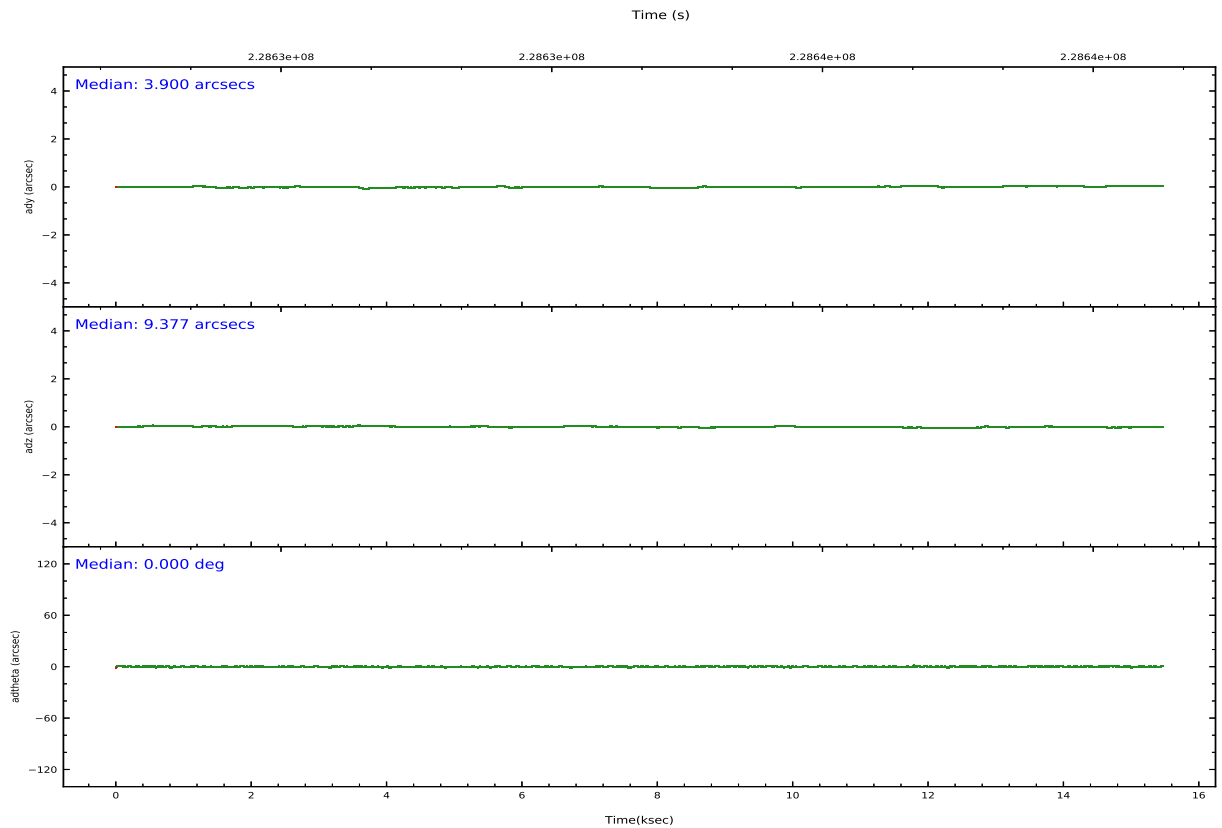
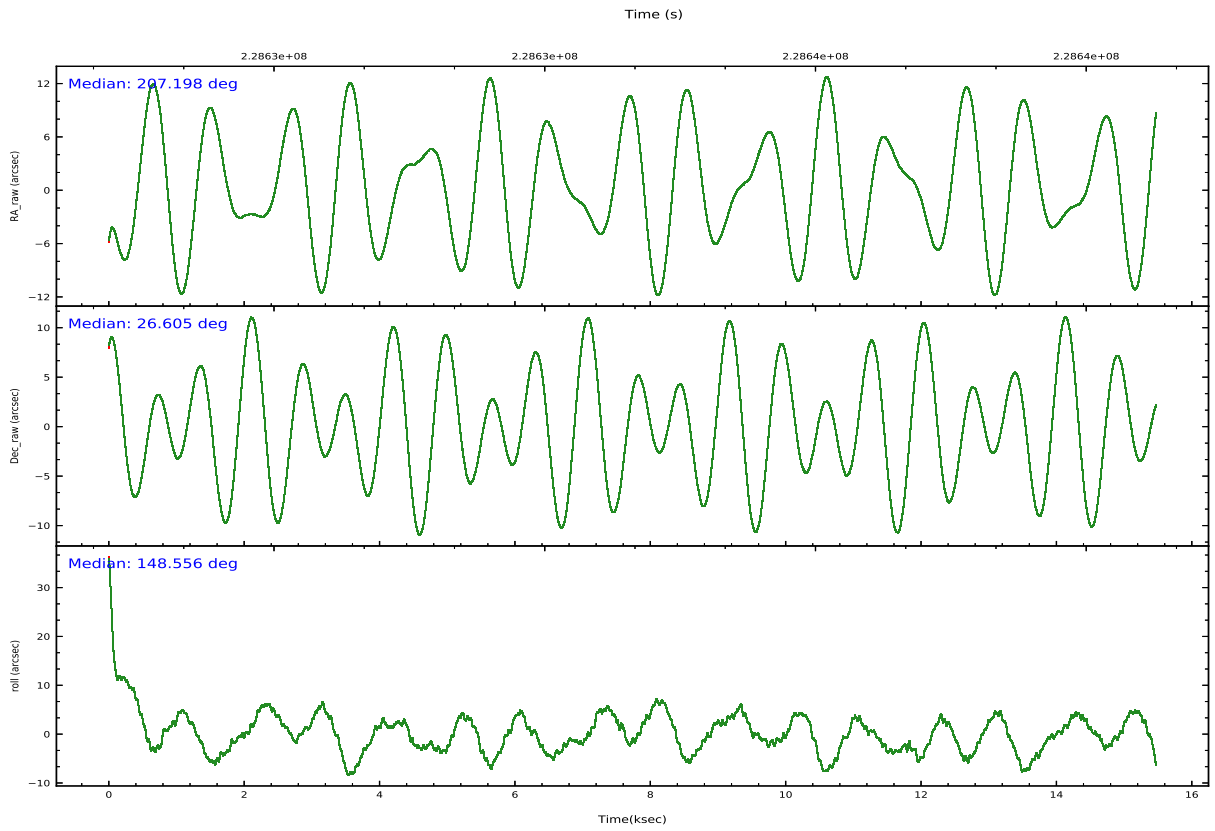
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4322	4995	16512	74401	4951
	4%	5%	15%	40%	5%
grade 1 events	48	55	117	459	53
	0%	0%	0%	0%	0%
grade 2 events	2324	2397	3560	10179	2235
	2%	2%	3%	5%	2%
grade 3 events	1150	1213	1417	3538	1167
	1%	1%	1%	1%	1%
grade 4 events	1032	1227	1479	3510	1097
	1%	1%	1%	1%	1%
grade 5 events	3336	3711	3182	4019	3699
	3%	4%	2%	2%	3%
grade 6 events	1858	2231	2050	3857	2041
	2%	2%	1%	2%	2%
grade 7 events	75379	75601	80373	83550	80628
	84%	82%	73%	45%	84%

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	207.229092	207.20111722496	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.603990	26.60628560732	Alternating exposures requested	N	N
[deg] Pointing Roll	148.343031	148.55587132605	[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	-214.092463	-214.0964622431356			
[mm] SIM translation stage offset	-19.5	-19.49599075979413			
[s] Observation start time (MET)	228626033.184000	228624960.22283			
Observation start date	2005-03-31T03:12:49	2005-03-31T02:56:00			
[s] Observation end time (MET)	228641033.184000	228641894.2486			
Observation end date	2005-03-31T07:22:49	2005-03-31T07:38:14			
Read mode	TIMED	TIMED			

2.3 Aspect





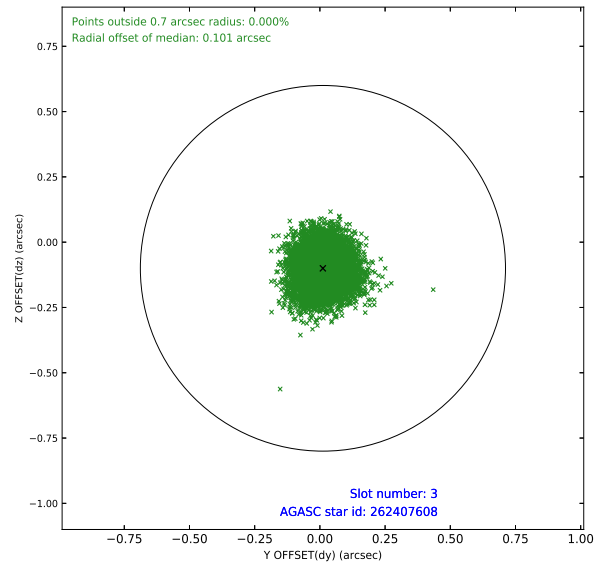
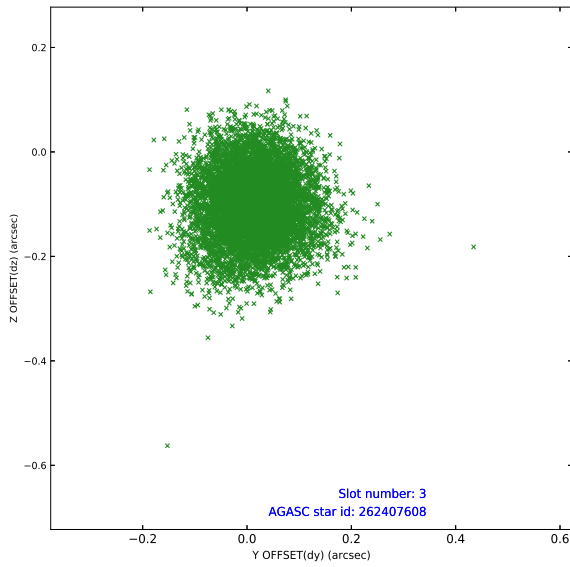
Slot Statistics

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	7.21	3775	1.000	0.300	-0.255	0.006	0.011	0.000000	0.000000	935.75	-1233
1	FID		ACIS-I-5	7.22	3775	1.000	-0.472	0.208	0.006	0.010	0.000000	0.000000	-1812.89	664
2	FID		ACIS-I-6	7.27	3775	1.000	0.080	0.118	0.006	0.011	0.000000	0.000000	400.87	1308
3	GUIDE	used	262407608	9.36	7489	1.000	0.012	-0.100	0.096	0.153	207.378401	26.435507	-727.88	263
4	GUIDE	used	262407800	10.08	7538	1.000	-0.137	0.188	0.183	0.279	207.321181	27.251762	974.07	-2138
5	GUIDE	used	262408096	9.36	7546	1.000	0.026	-0.046	0.084	0.137	207.011678	26.515421	429.47	638
6	GUIDE	used	262408936	9.70	7541	1.000	0.073	0.024	0.150	0.240	207.154731	26.726554	435.29	-249
7	GUIDE	used	262411960	9.70	7538	1.000	0.027	-0.072	0.121	0.197	207.327895	25.881727	-1637.17	2044

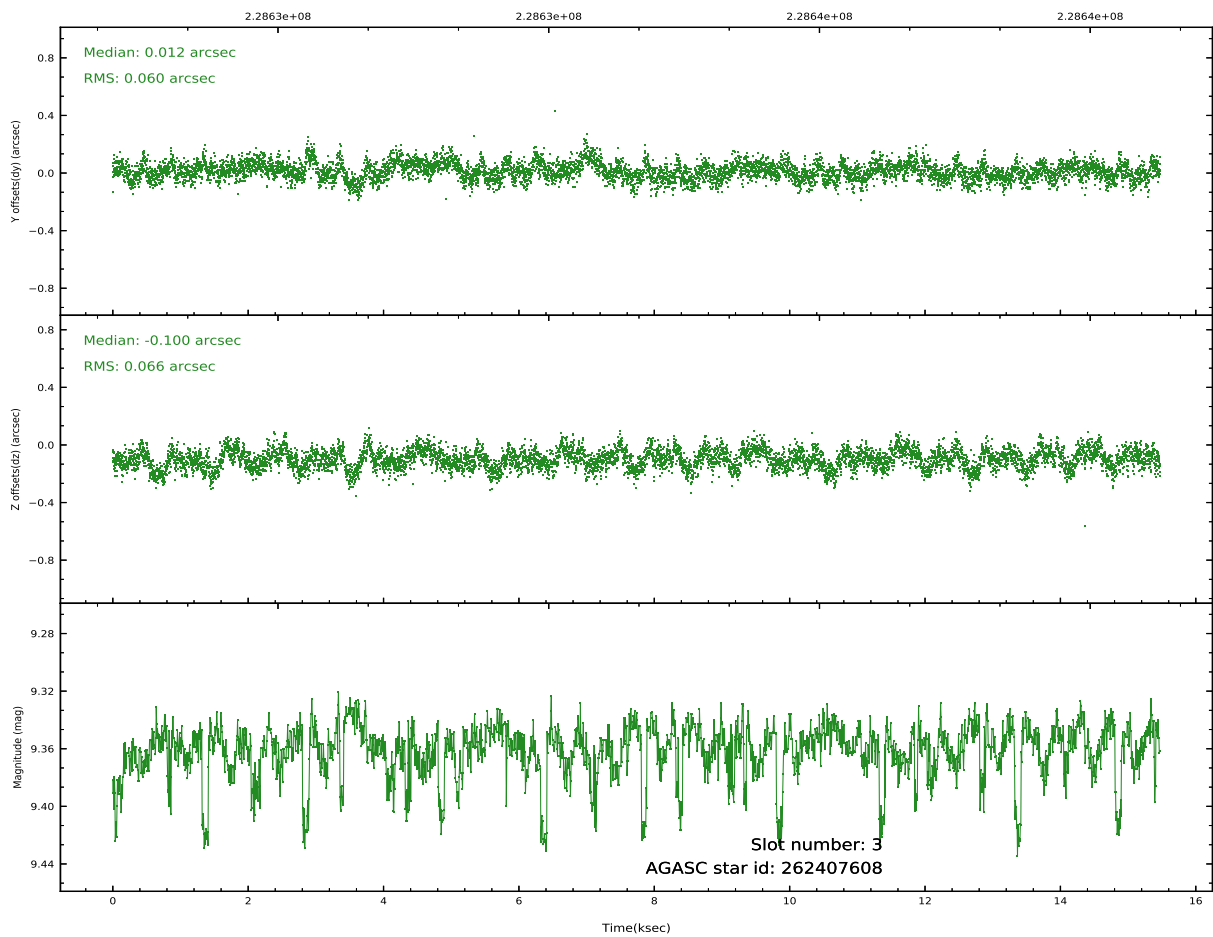
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2.4 Star Slots

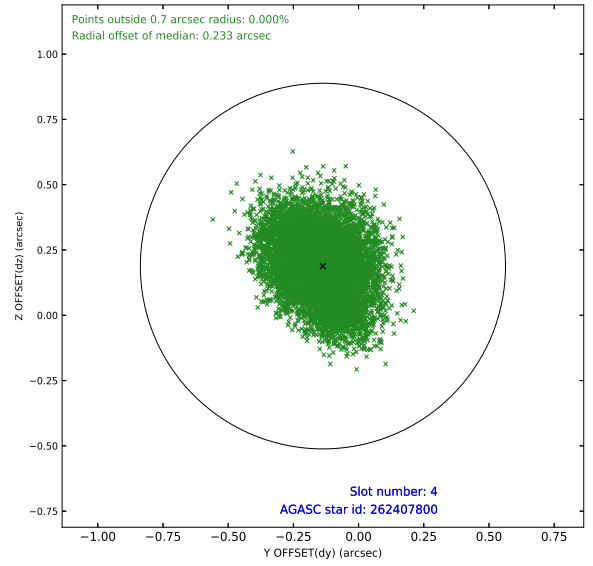
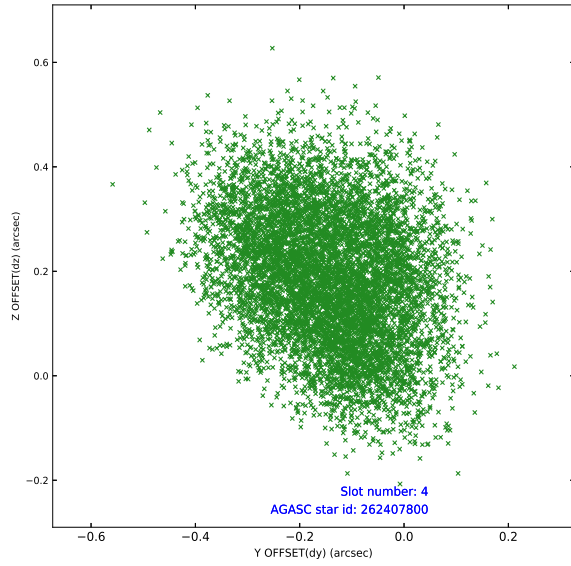
2.4.1 Slot 3



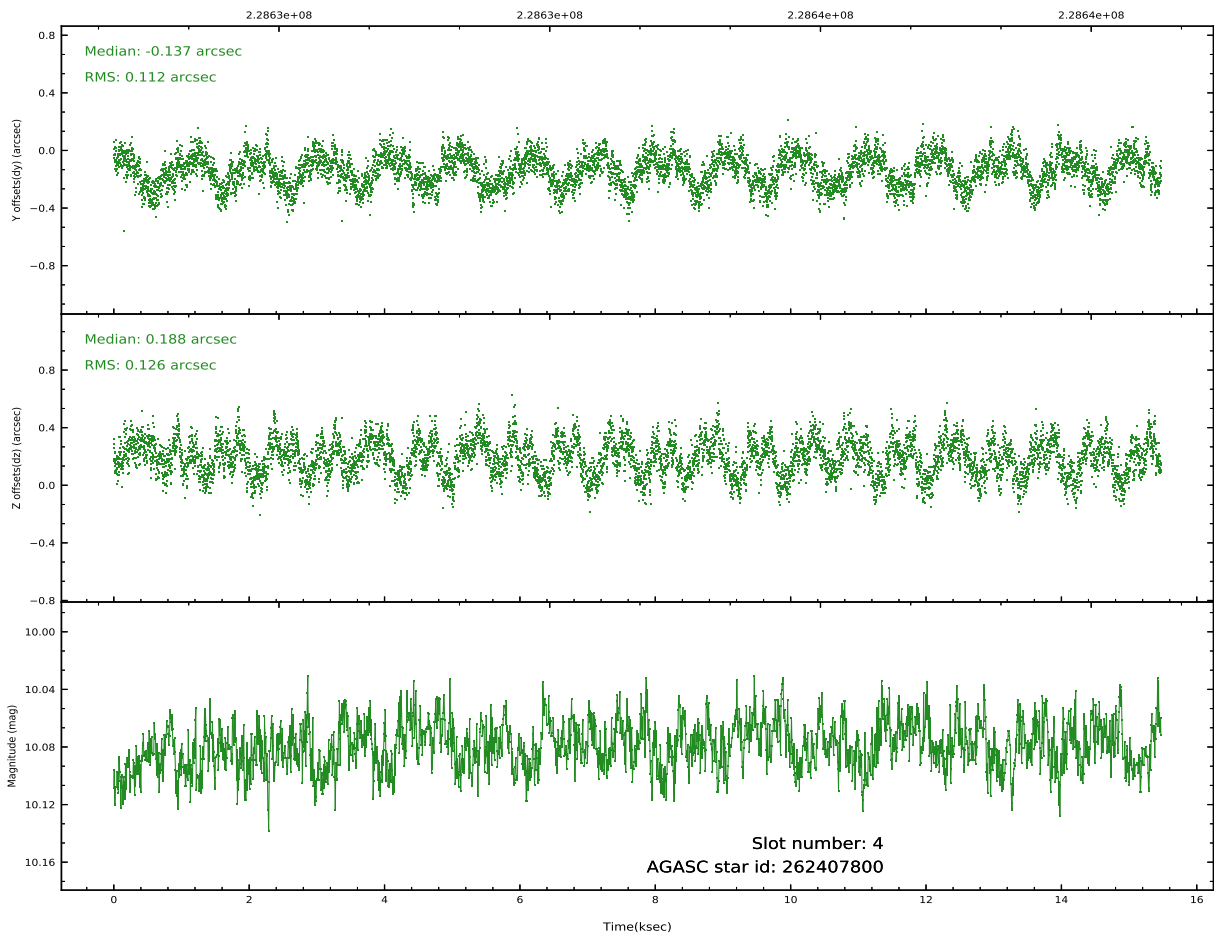
Time (s)



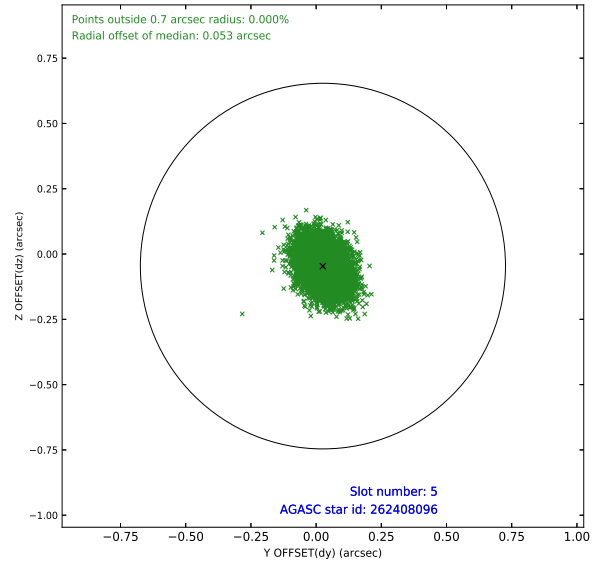
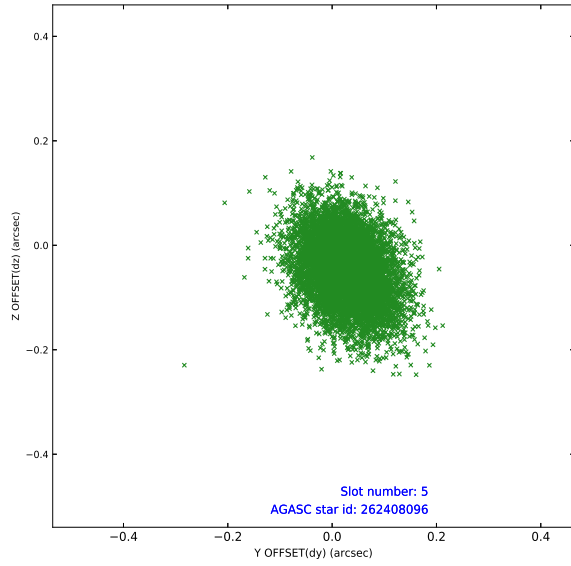
2.4.2 Slot 4



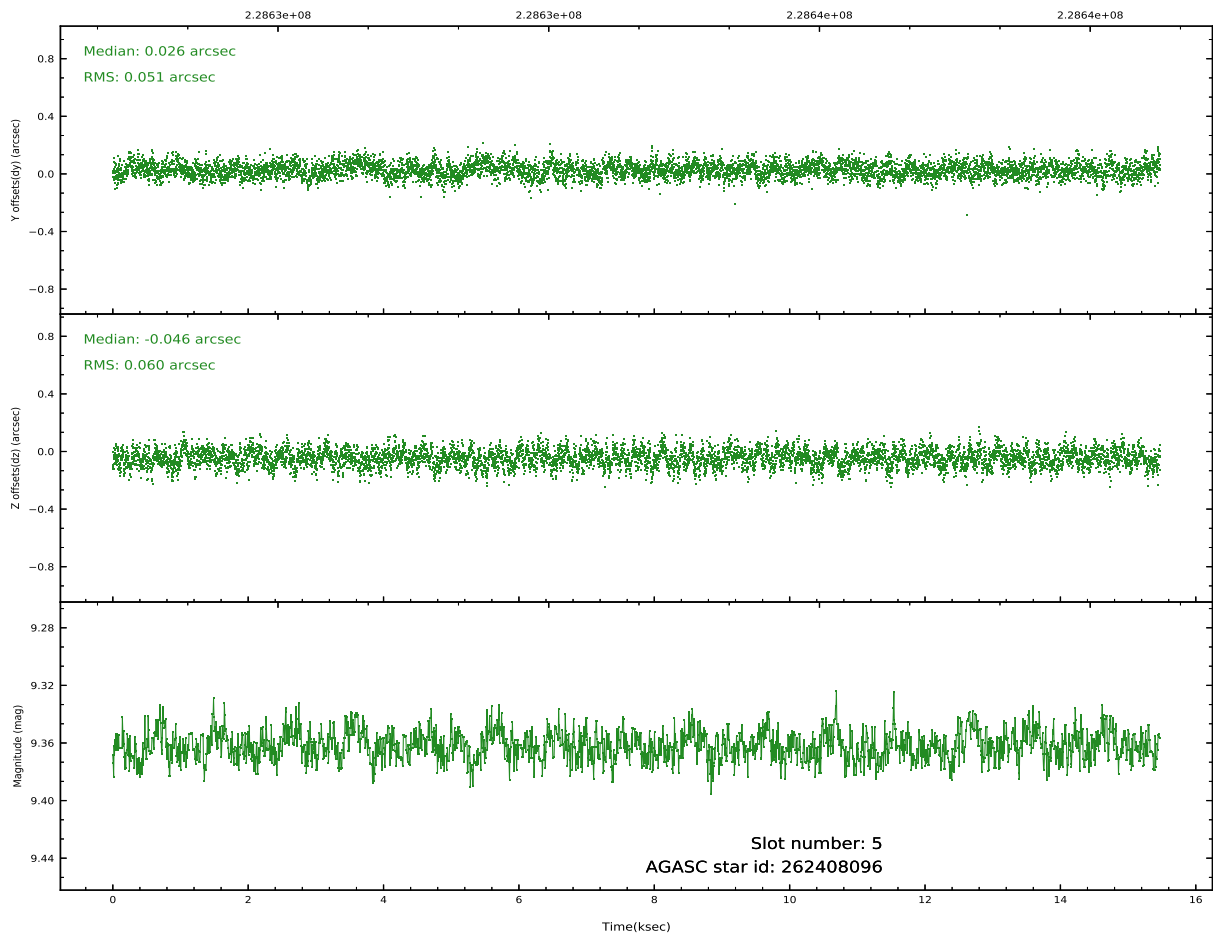
Time (s)



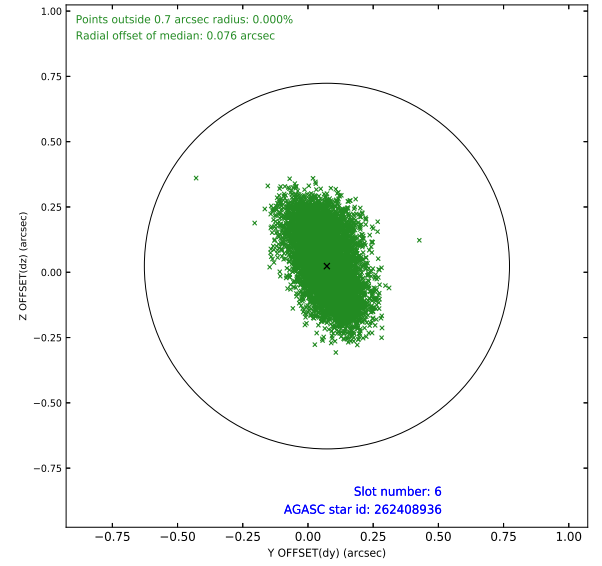
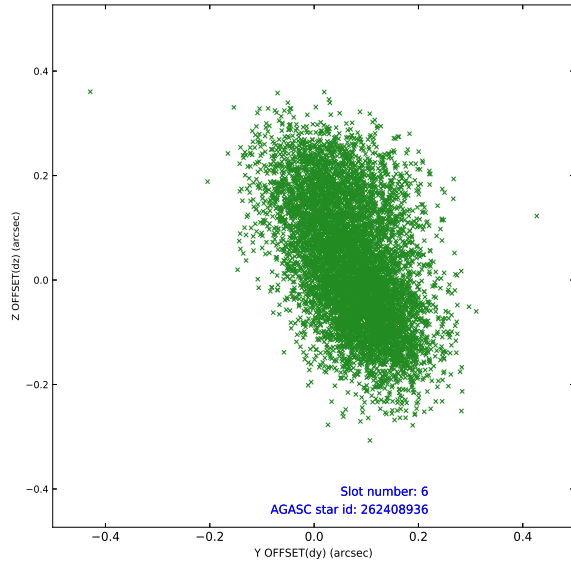
2.4.3 Slot 5



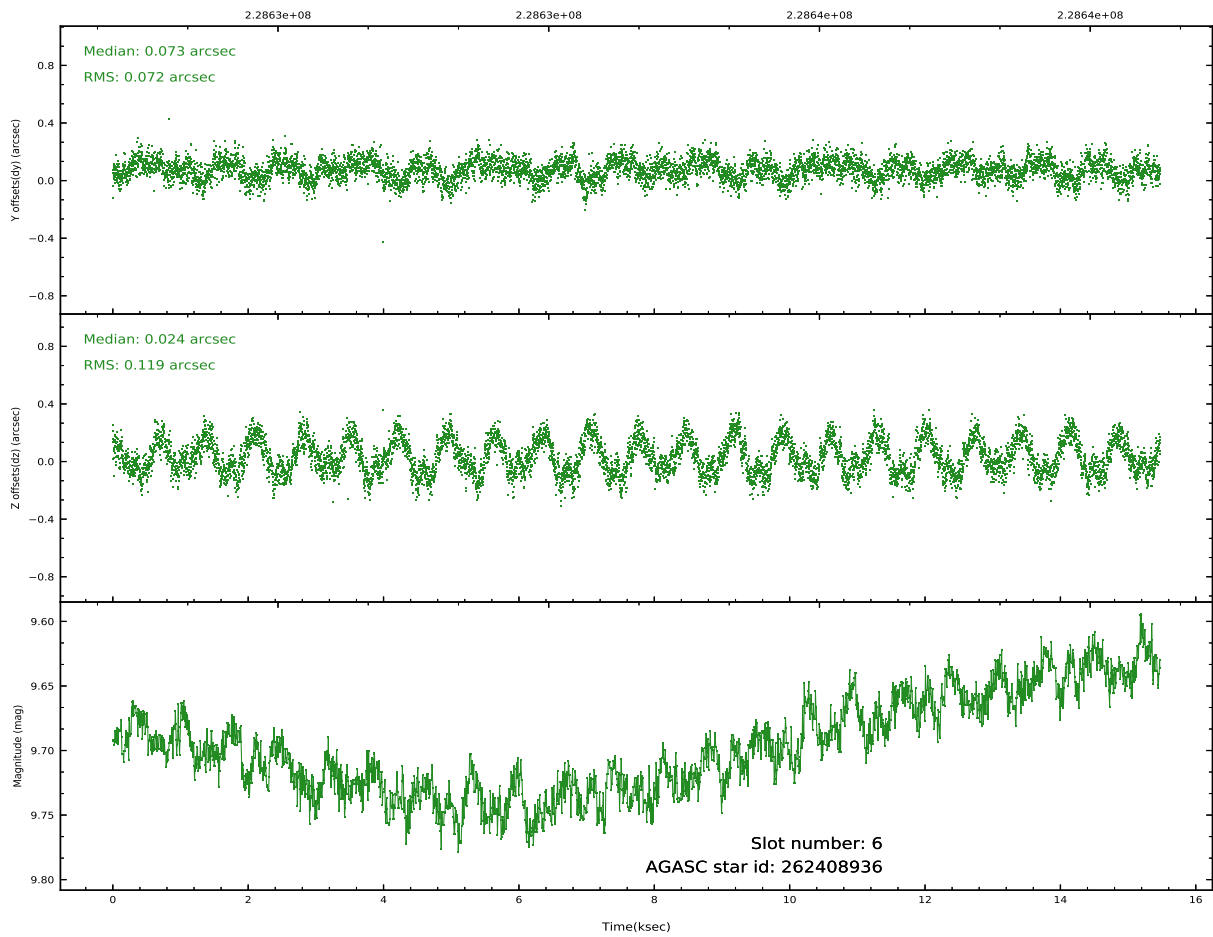
Time (s)



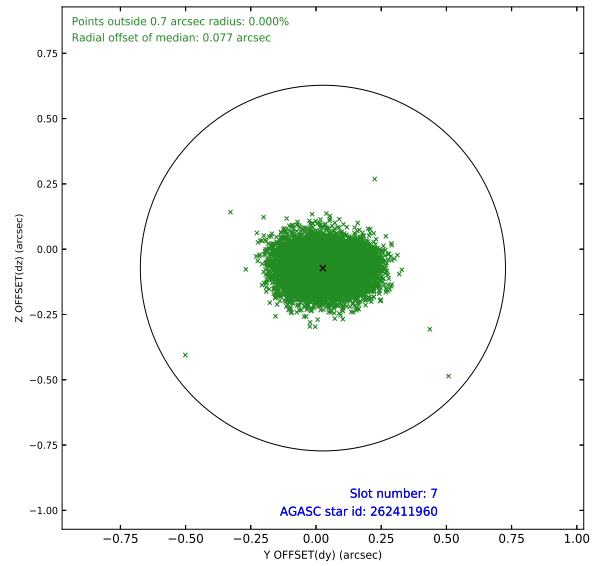
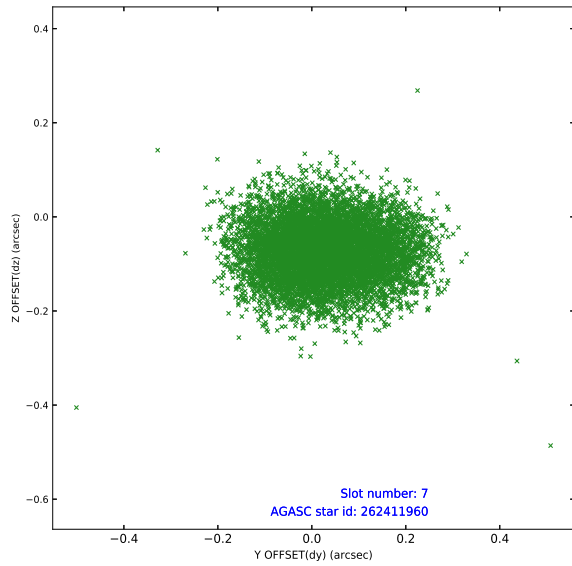
2.4.4 Slot 6



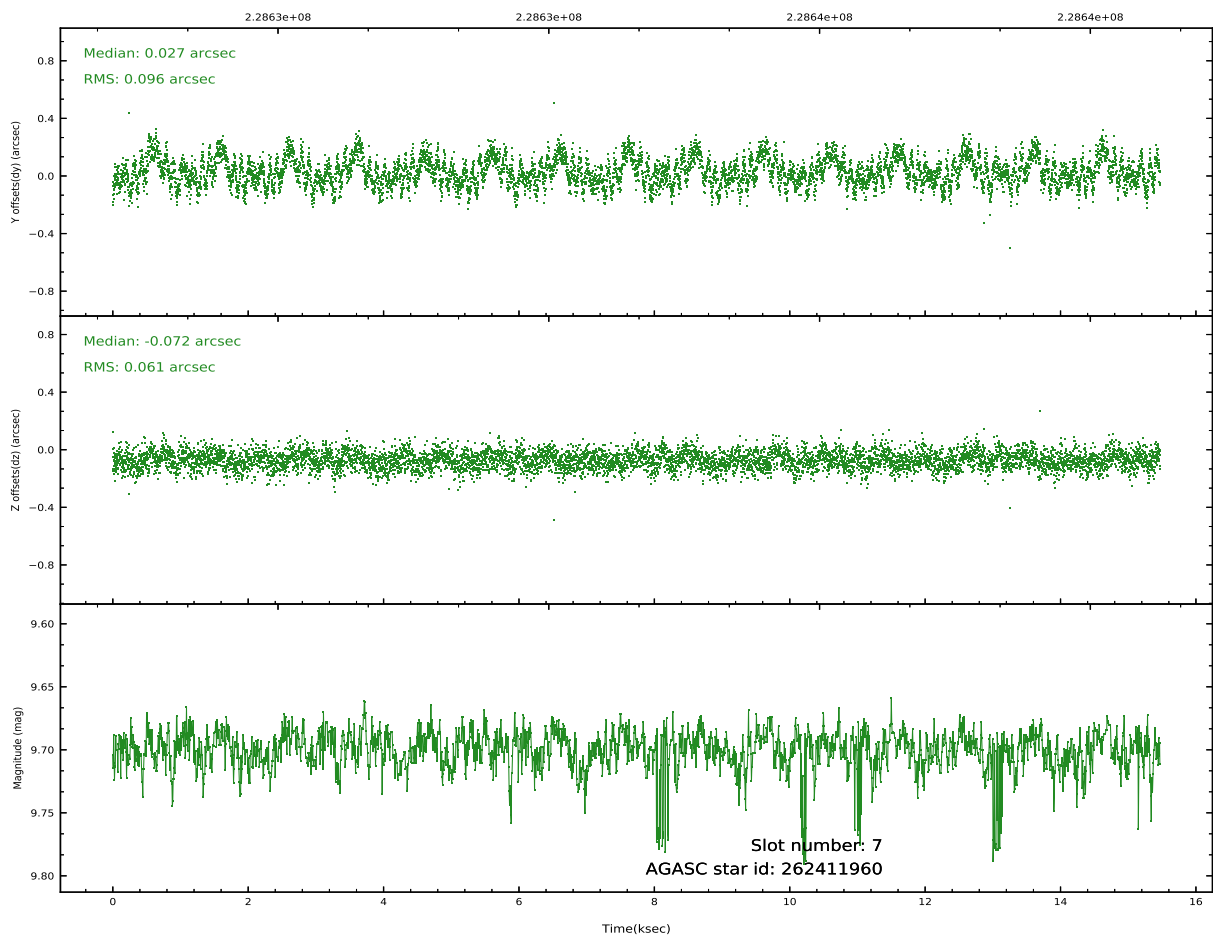
Time (s)



2.4.5 Slot 7

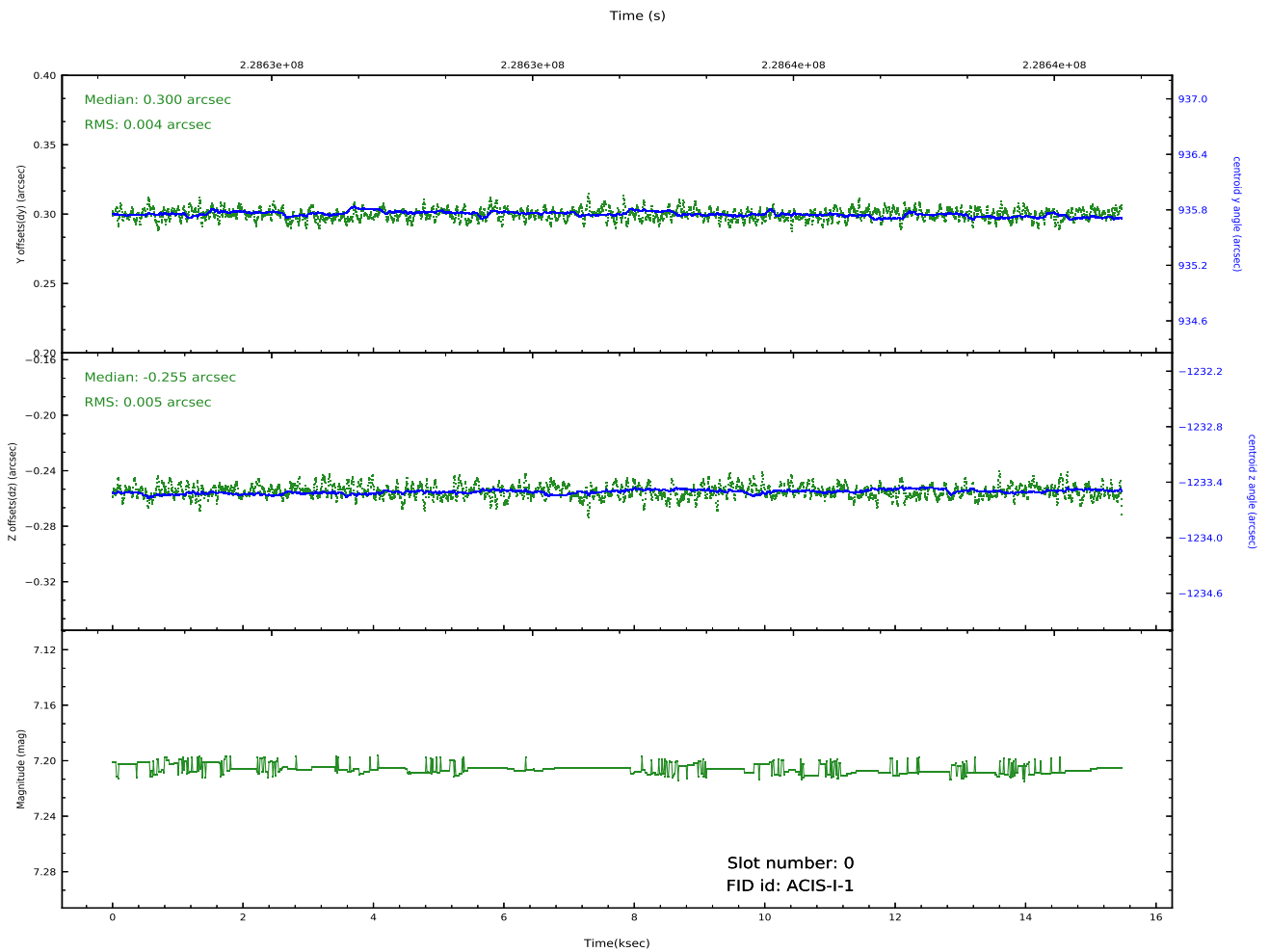
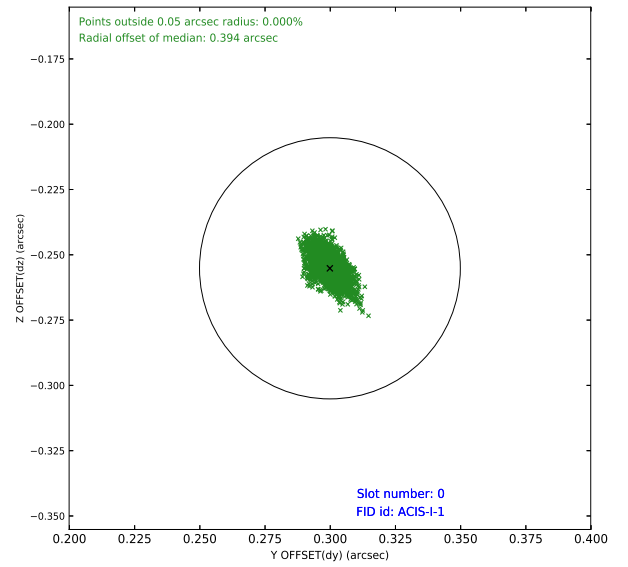
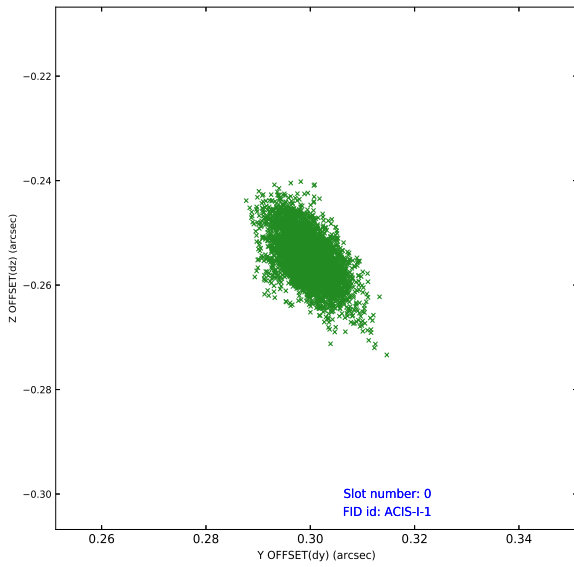


Time (s)

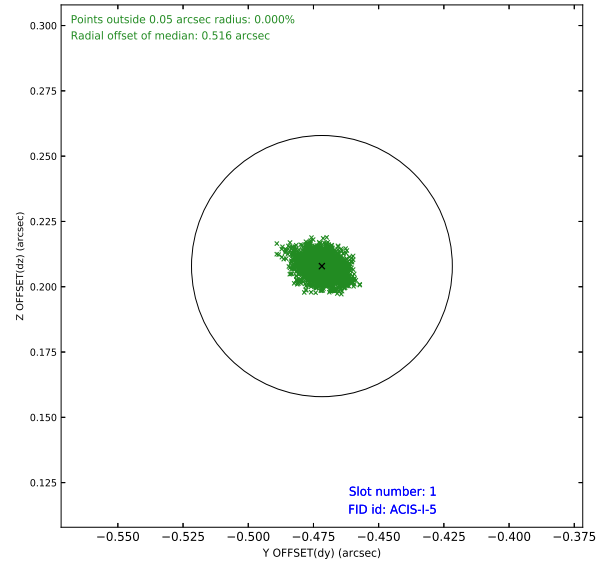
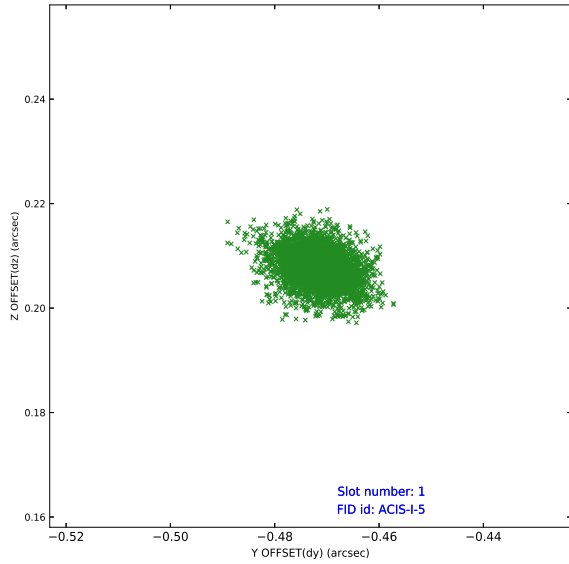


2.5 FID Slots

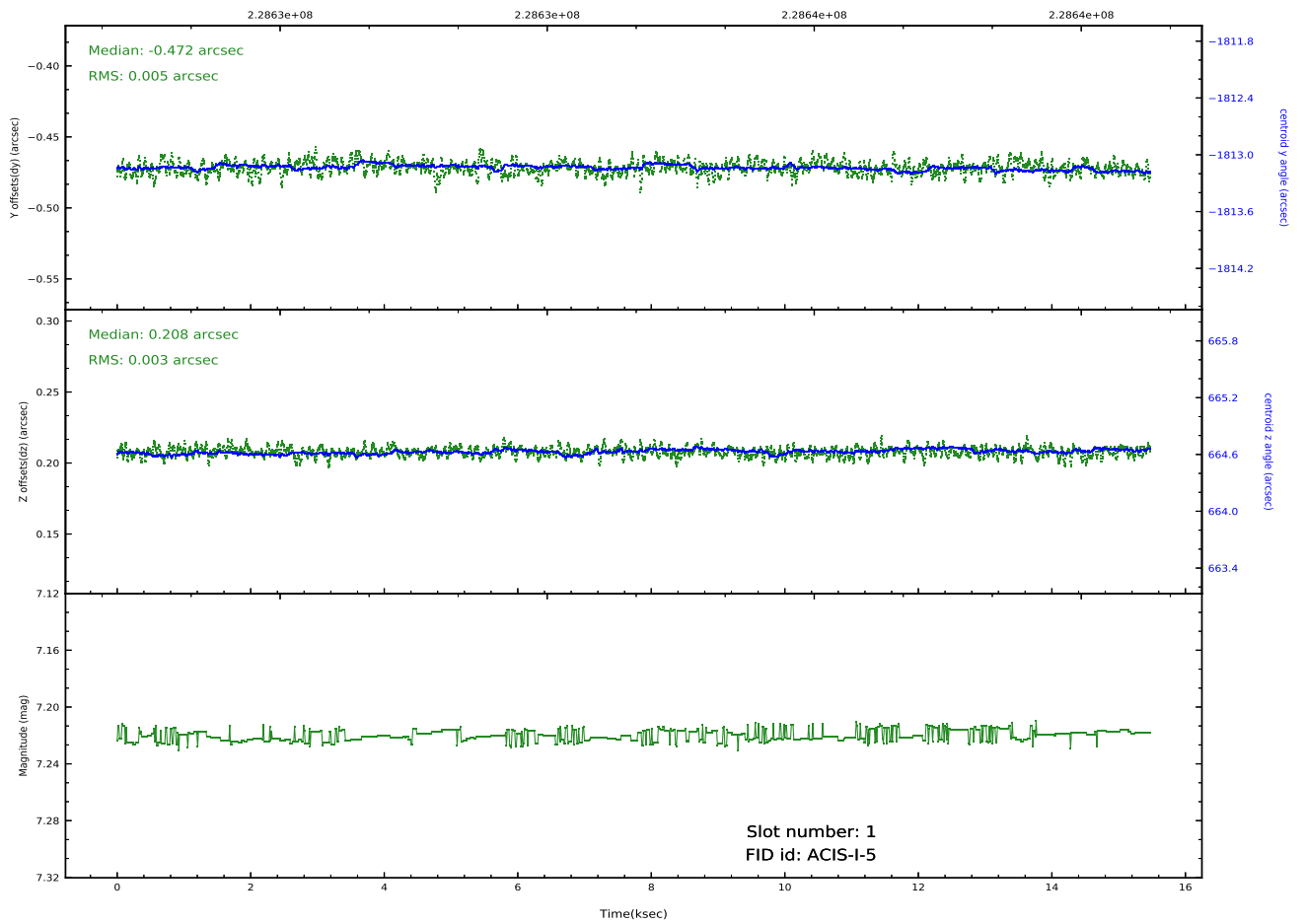
2.5.1 Slot 0



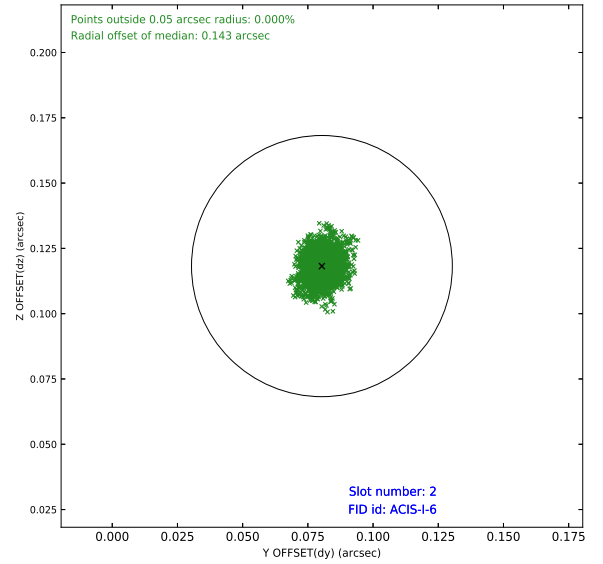
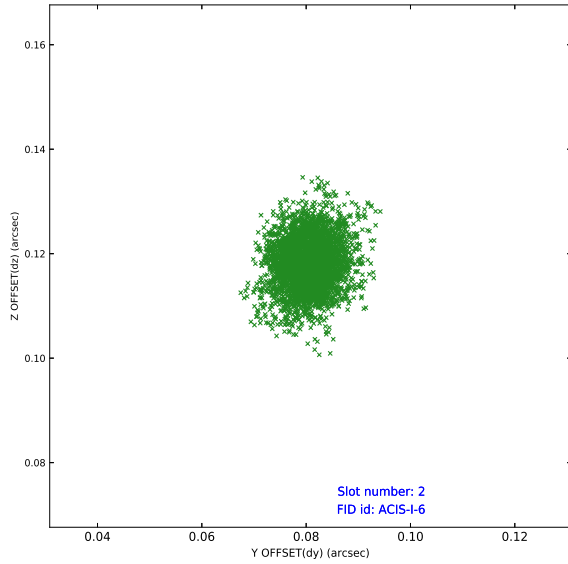
2.5.2 Slot 1



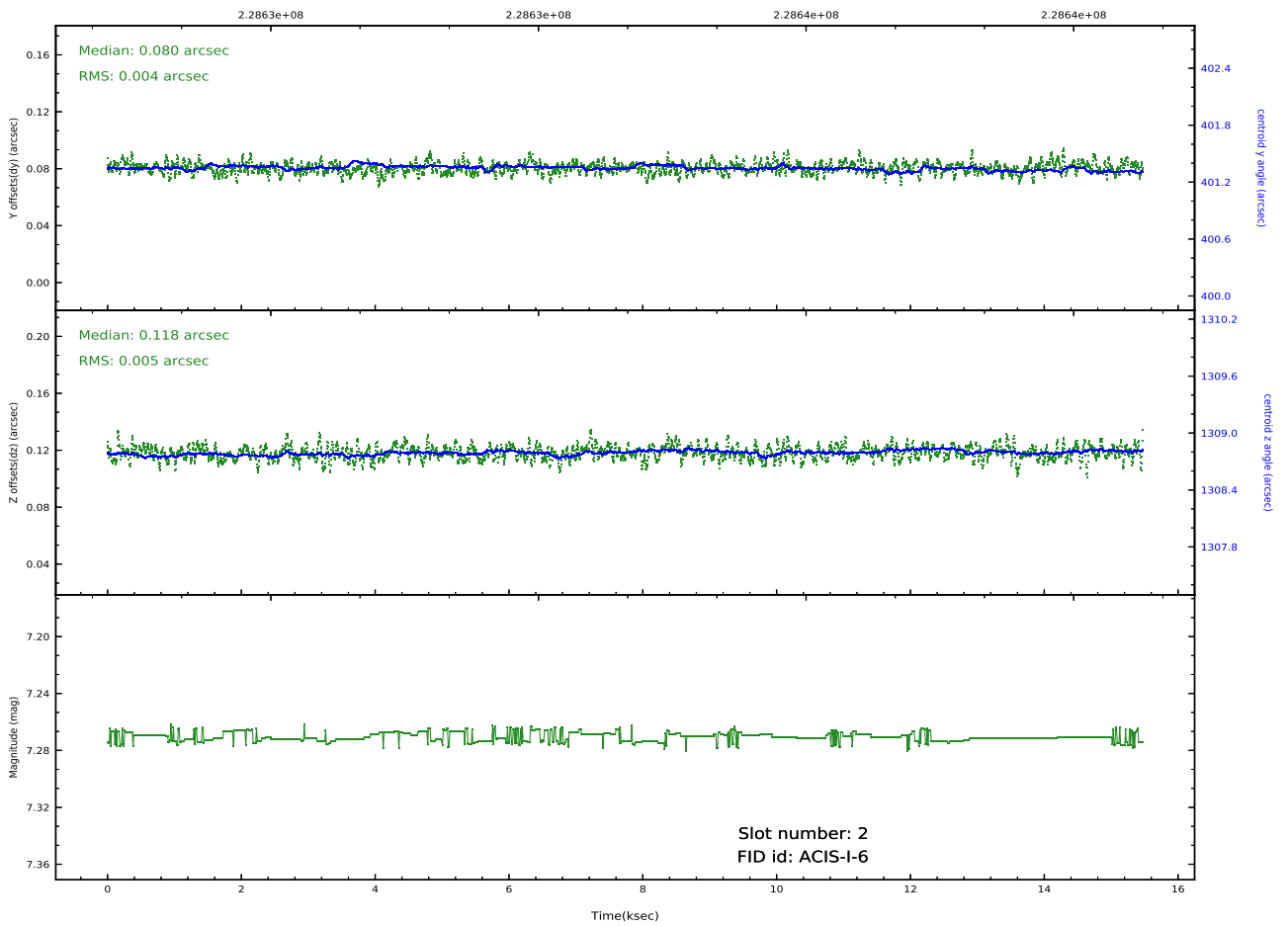
Time (s)



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	15.05049

A.2 Comments

Large SIM offsets are due to off-axis pointing.