

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20342 - L2 Version 2
Chandra X-Ray Center

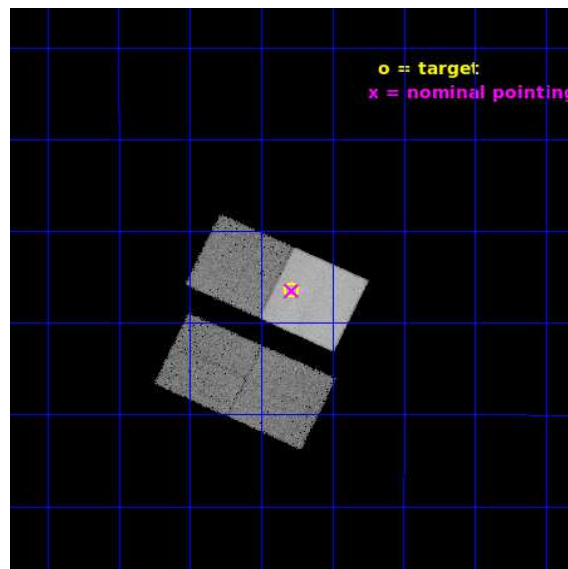
L2 Processing Date : Oct 24 2020

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1 Front

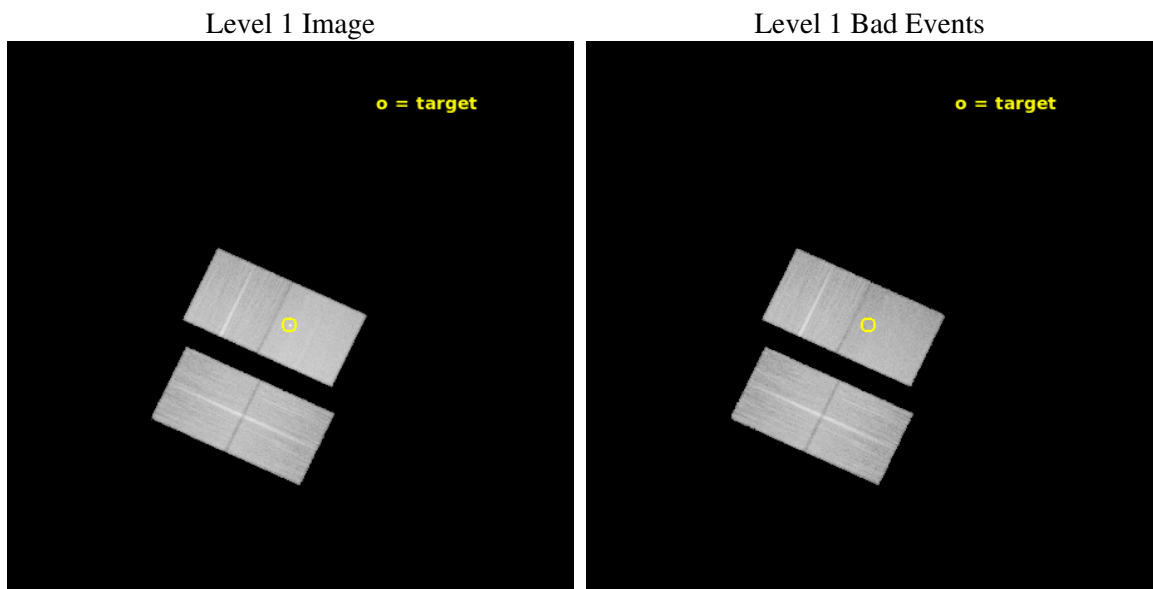
seq_num	601408	Sequence number
obs_id	20342	Observation id
title	The Mass Profiles of Two Massive Relic Galaxies	Proposal title
observer	David Buote	Principal investigator
object	Mrk1216	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	127.19625	Observer's specified target RA [deg]
dec_targ	-6.940278	Observer's specified target Dec [deg]
ra_nom	127.1962008565	Nominal RA [deg]
dec_nom	-6.9416689236313	Nominal Dec [deg]
roll_nom	25.144820040621	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32069.167912841	Sum of GTIs [s]
livetime	31650.160625082	Livetime [s]
ontime2	32069.044792891	Sum of GTIs [s]
ontime3	32065.944782615	Sum of GTIs [s]
ontime6	32062.844741821	Sum of GTIs [s]
ontime7	32069.167912841	Sum of GTIs [s]
l2events	191395	Number of level 2 events



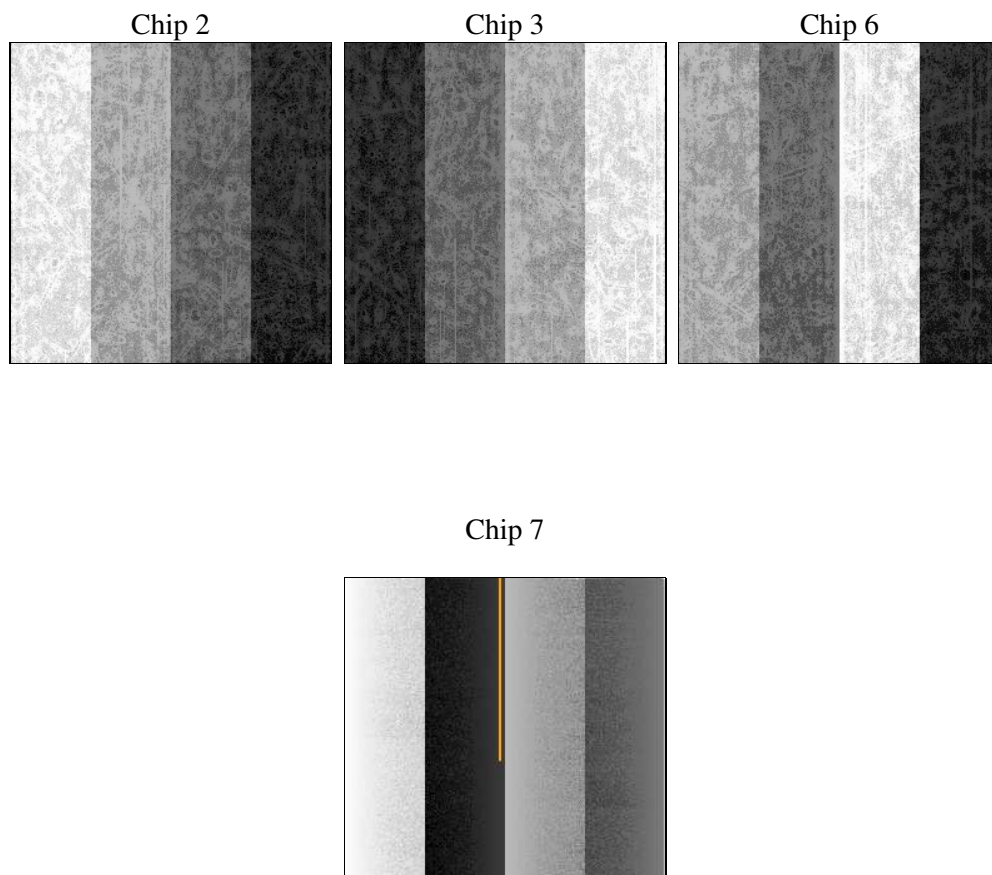
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	32069.167912841	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	32069.044792891	Sum of GTIs [s]
date	2020-10-24T06:27:04	Date and time of file creation	ontime3	32065.944782615	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	32062.844741821	Sum of GTIs [s]
			ontime7	32069.167912841	Sum of GTIs [s]
			l1events	981870	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	222980	220472	236467	301951
rejected events	198749	197250	210554	169749
rejected %	89%	89%	89%	56%

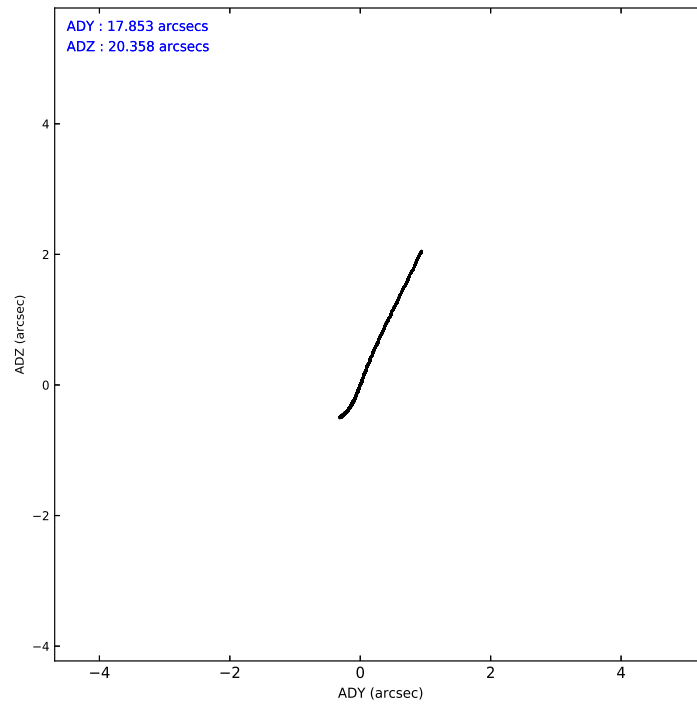
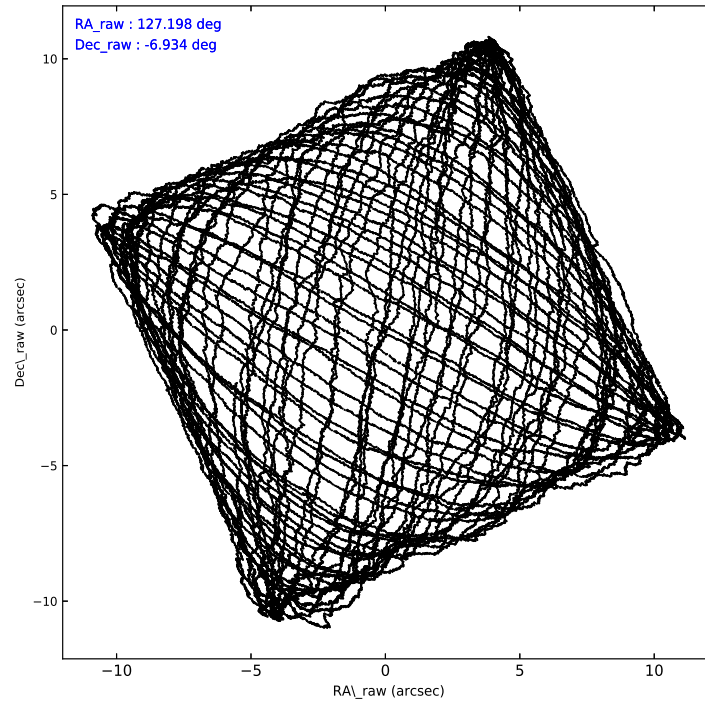
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	8402	7943	8304	11689
	3%	3%	3%	3%
grade 1 events	130	141	118	424
	0%	0%	0%	0%
grade 2 events	5917	5086	6223	28214
	2%	2%	2%	9%
grade 3 events	2489	2617	2470	10426
	1%	1%	1%	3%
grade 4 events	2509	2494	2571	10527
	1%	1%	1%	3%
grade 5 events	8872	10819	10772	29204
	3%	4%	4%	9%
grade 6 events	4918	5082	6348	71356
	2%	2%	2%	23%
grade 7 events	189743	186290	199661	140111
	85%	84%	84%	46%

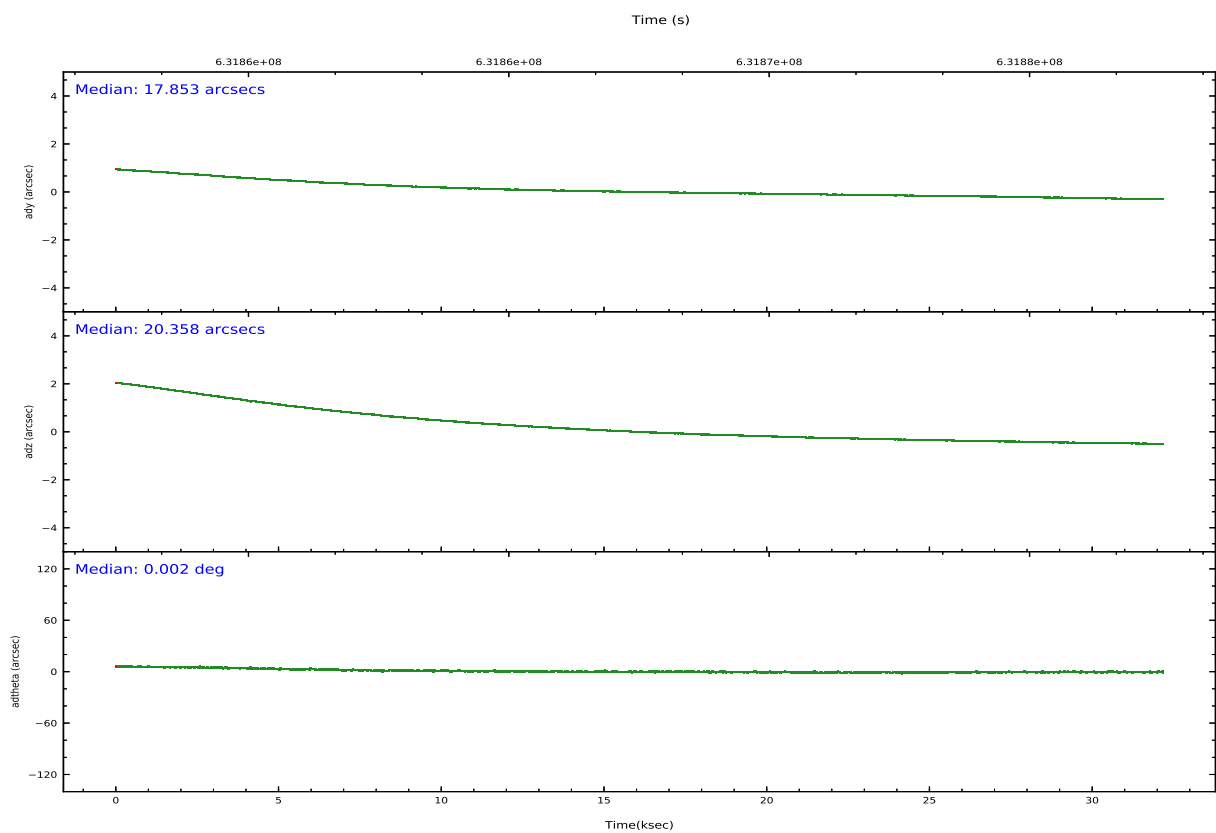
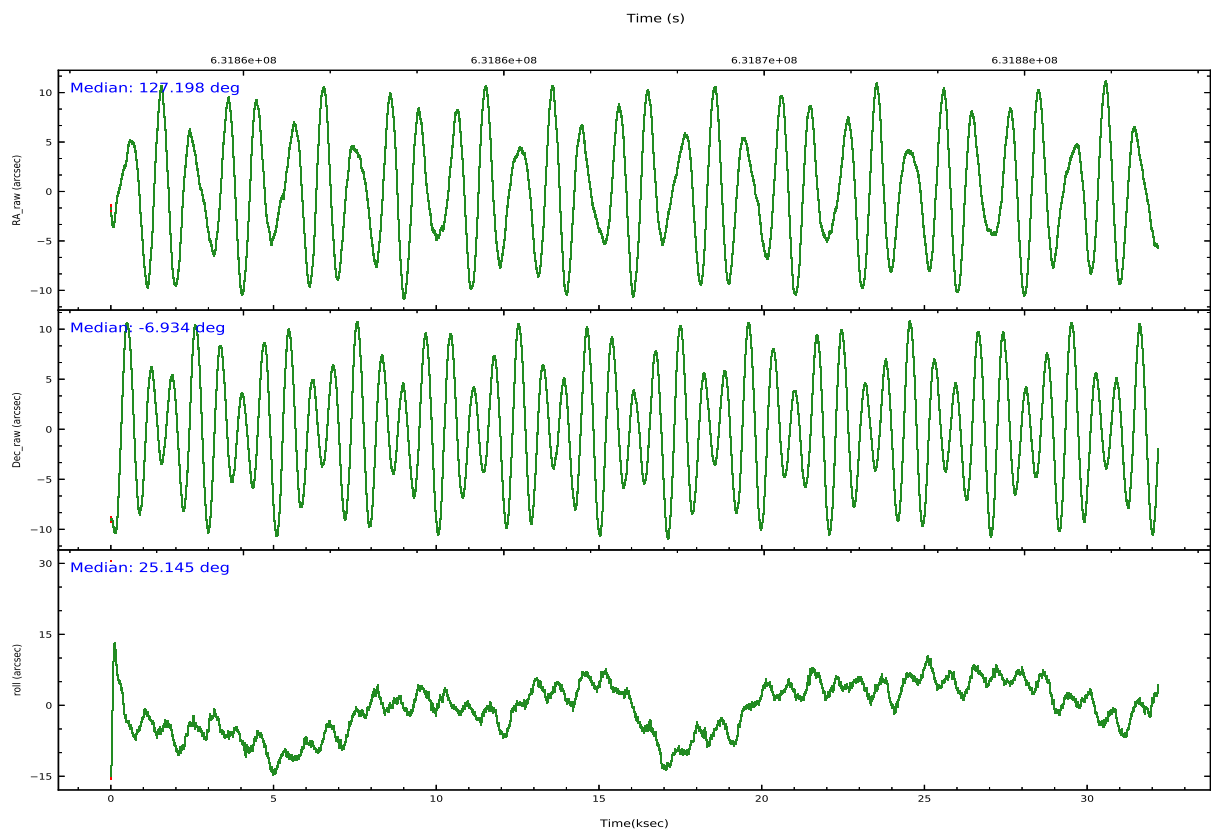
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	127.182902	127.1962008565
[deg] Pointing Dec	-6.956807	-6.9416689236313
[deg] Pointing Roll	24.998385	25.144820040621
[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)	631852105.184000	631850918.6681499
Observation start date	2018-01-09T02:27:16	2018-01-09T02:08:38
[s] Observation end time (MET)	631884105.184000	631885076.7951601
Observation end date	2018-01-09T11:20:36	2018-01-09T11:37:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	O2	N
CCD I1 on	O1	N
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
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



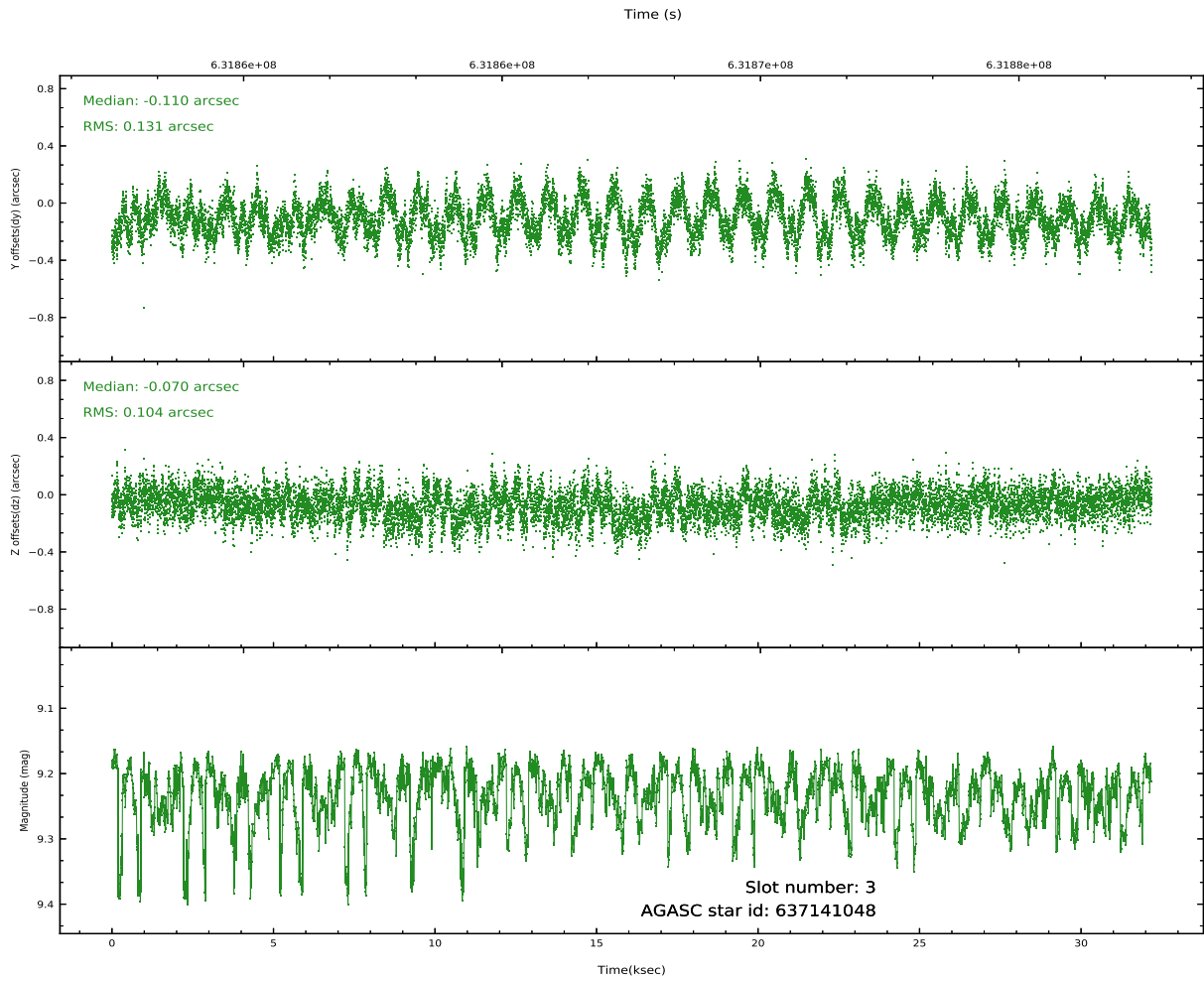
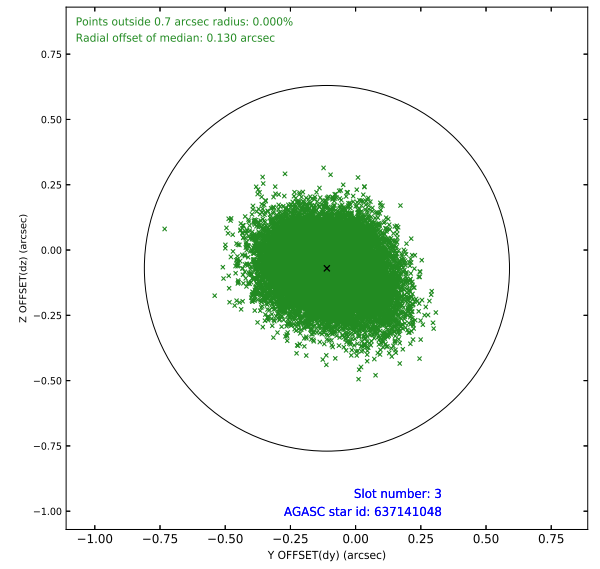
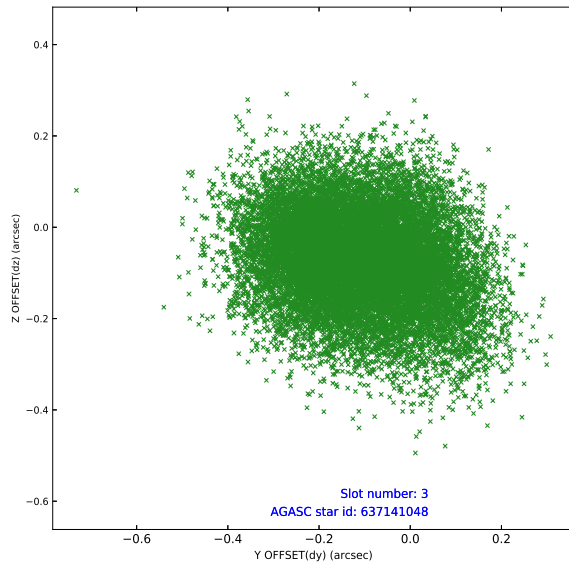


Slot Statistics

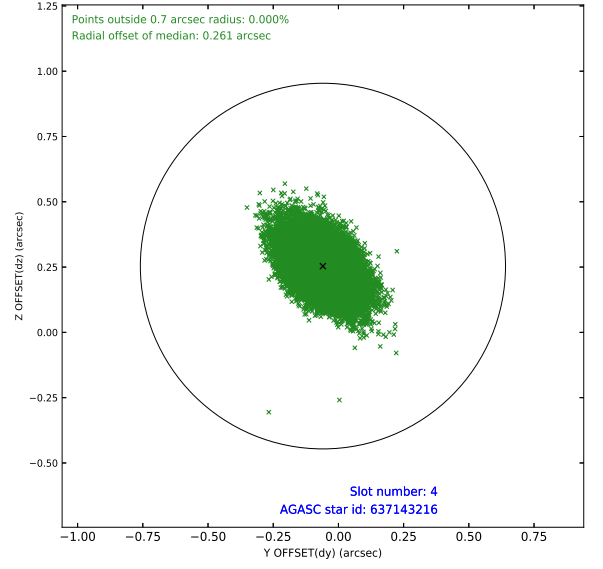
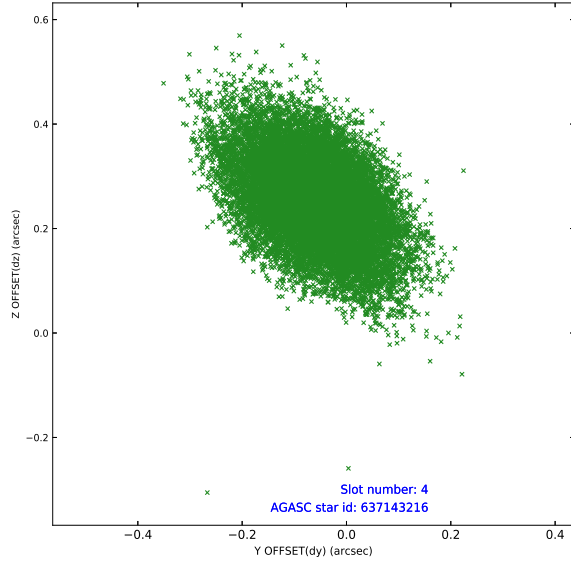
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.13	7850	1.000	0.292	-0.138	0.013	0.033	0.000000	0.000000	925.10	-1737
1	FID		ACIS-S-4	7.16	7848	1.000	0.035	-0.040	0.011	0.032	0.000000	0.000000	2142.51	166
2	FID		ACIS-S-5	7.14	7850	1.000	-0.354	0.191	0.008	0.012	0.000000	0.000000	-1824.12	160
3	GUIDE	used	637141048	9.23	15675	1.000	-0.110	-0.070	0.178	0.283	127.462654	-7.078875	720.35	-820
4	GUIDE	used	637143216	7.01	15677	1.000	-0.059	0.254	0.123	0.205	126.941738	-7.220354	-1181.35	-495
5	GUIDE	used	637152496	9.07	15673	1.000	0.168	-0.058	0.128	0.215	126.870796	-6.559955	-408.05	1766
6	GUIDE	used	637158032	6.77	15698	1.000	-0.192	-0.361	0.131	0.213	126.821957	-6.409718	-339.39	2329
7	GUIDE	used	711467944	8.67	15678	1.000	0.192	0.235	0.126	0.213	127.206727	-7.544375	-816.44	-1952

2.4 Star Slots

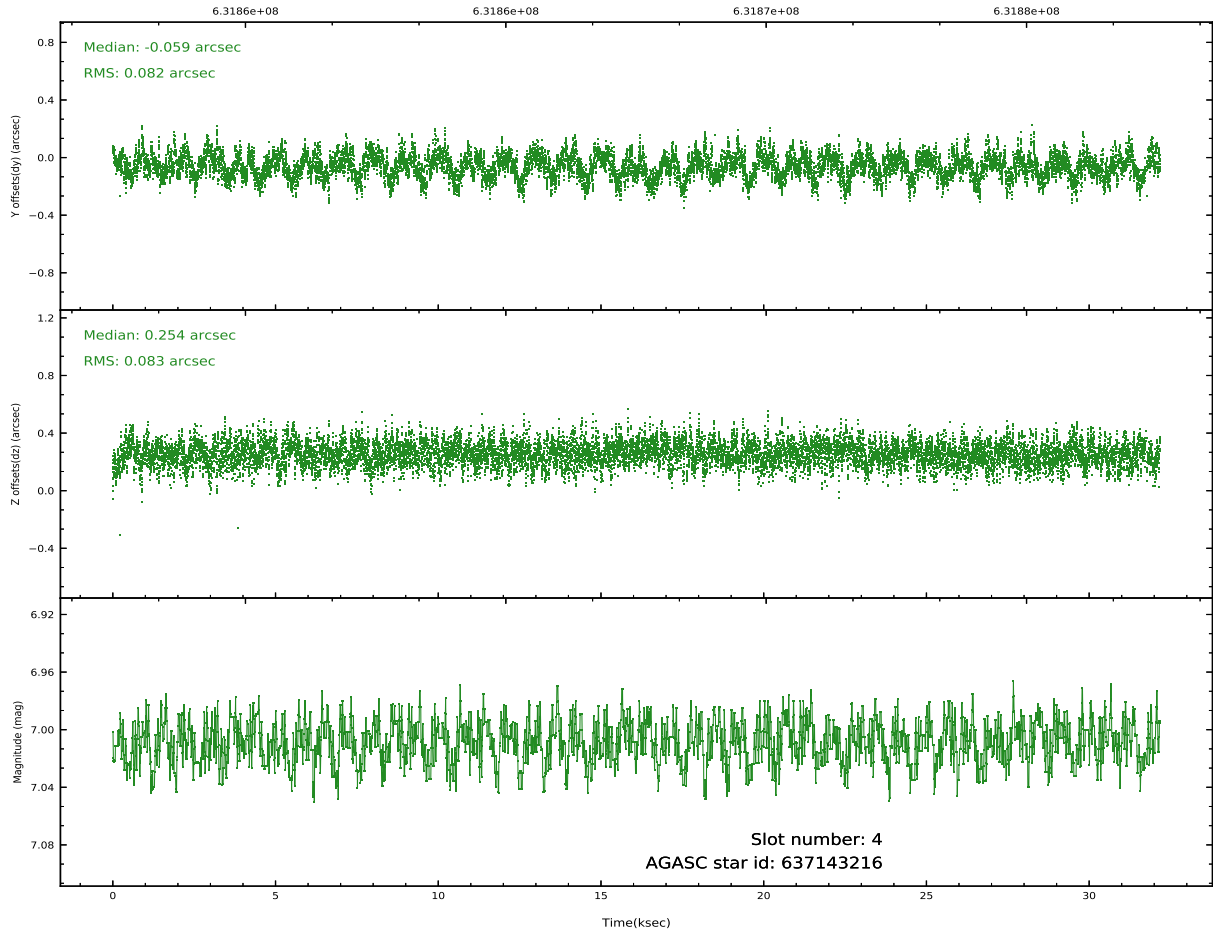
2.4.1 Slot 3



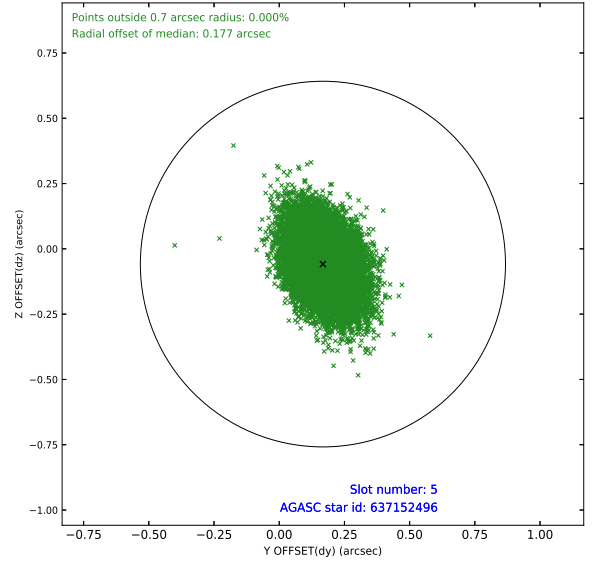
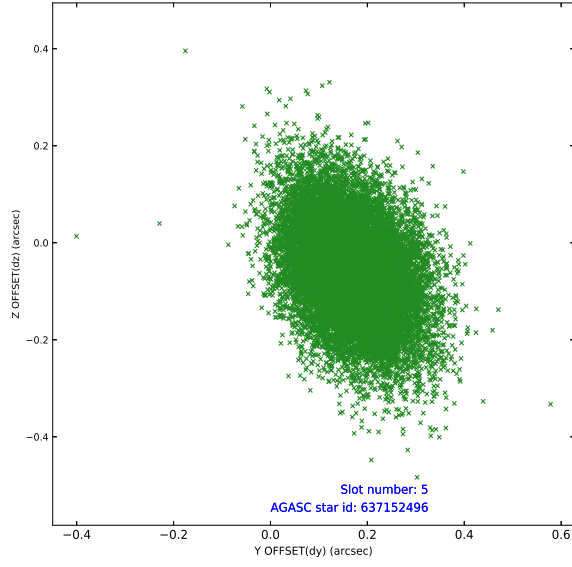
2.4.2 Slot 4



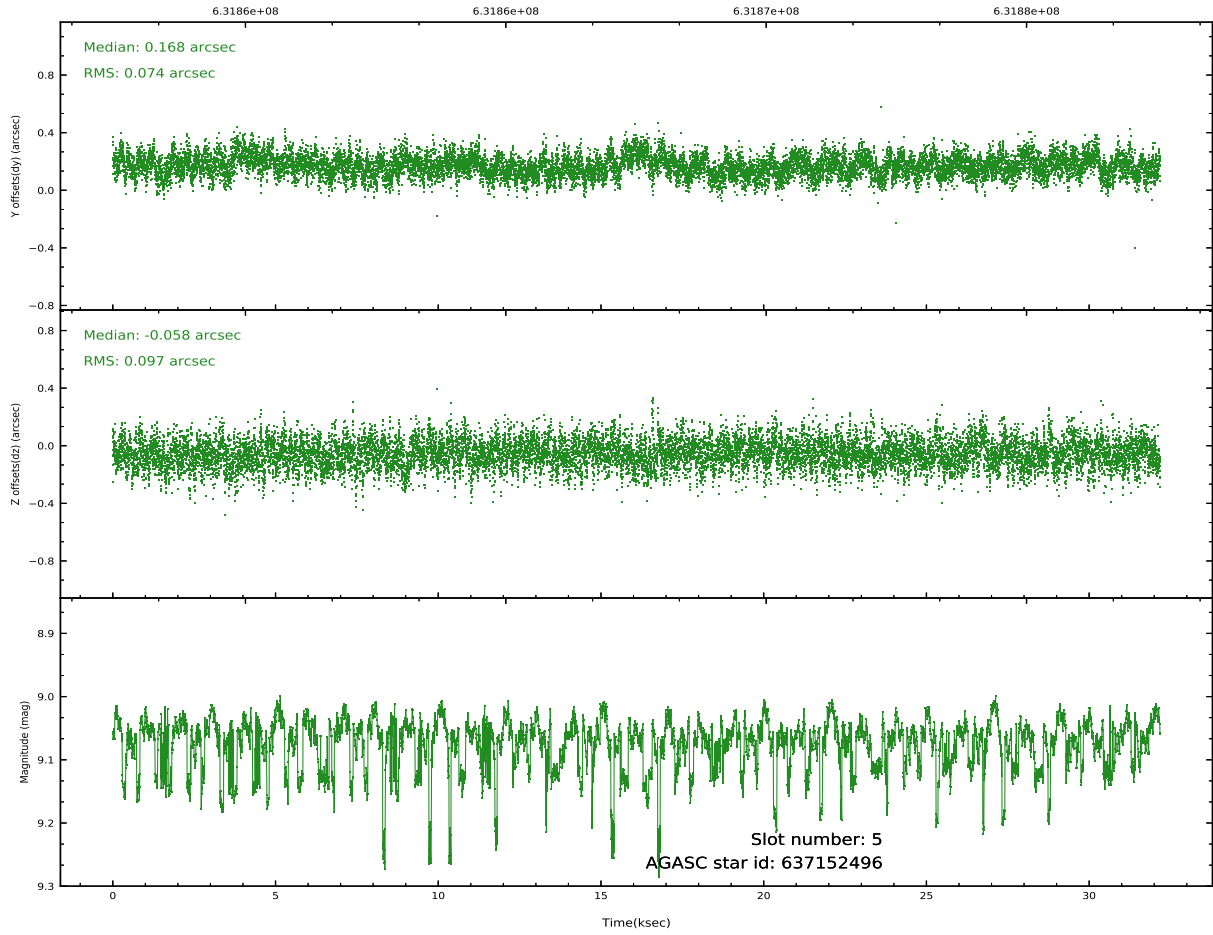
Time (s)



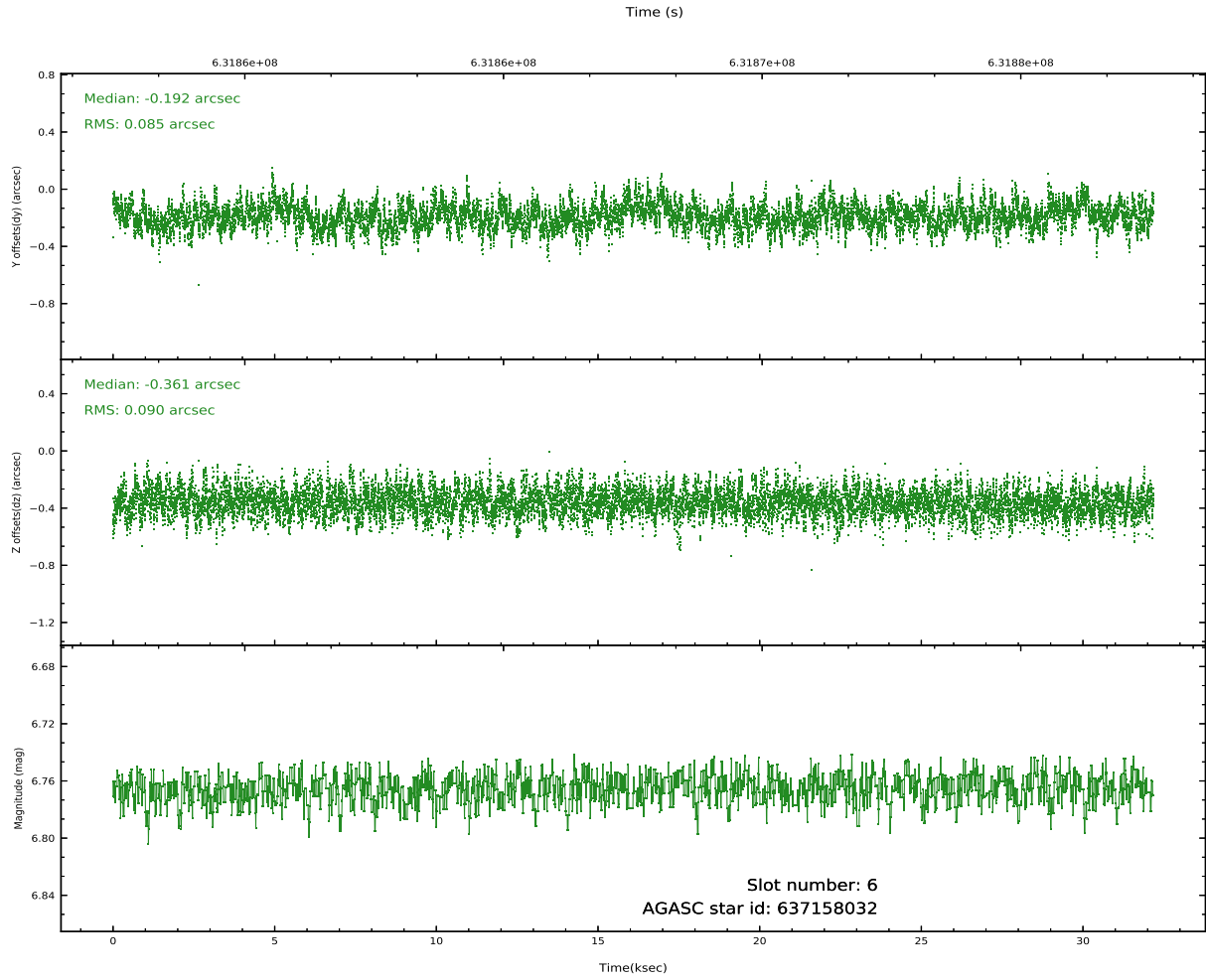
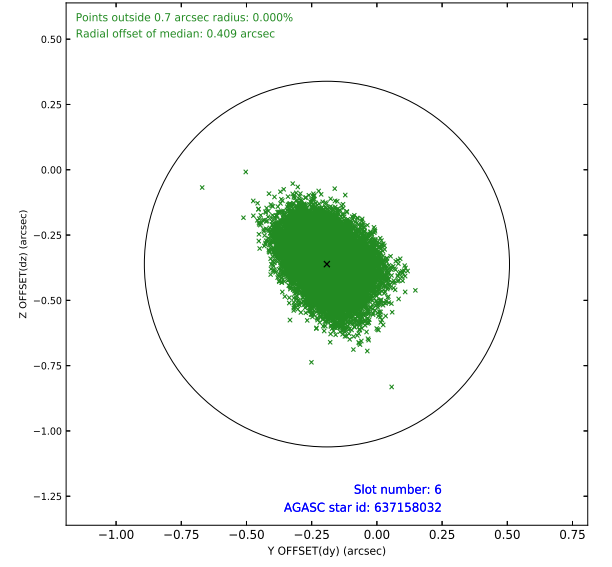
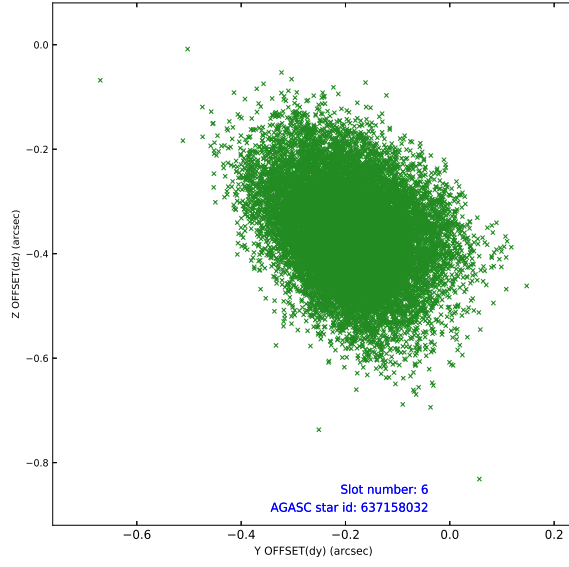
2.4.3 Slot 5



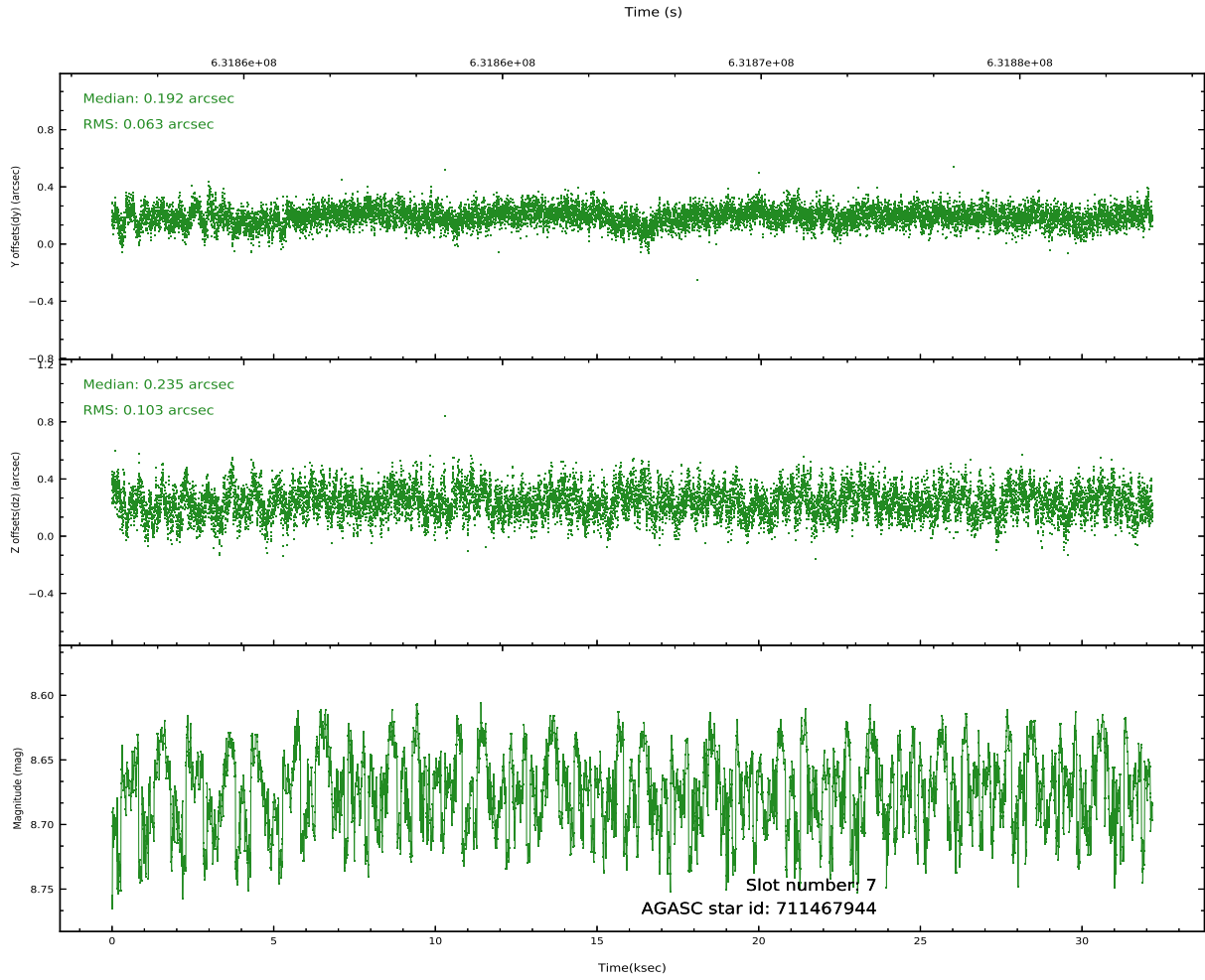
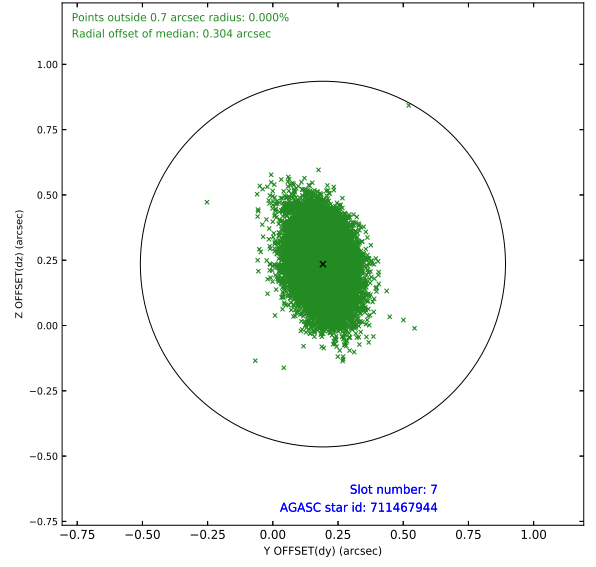
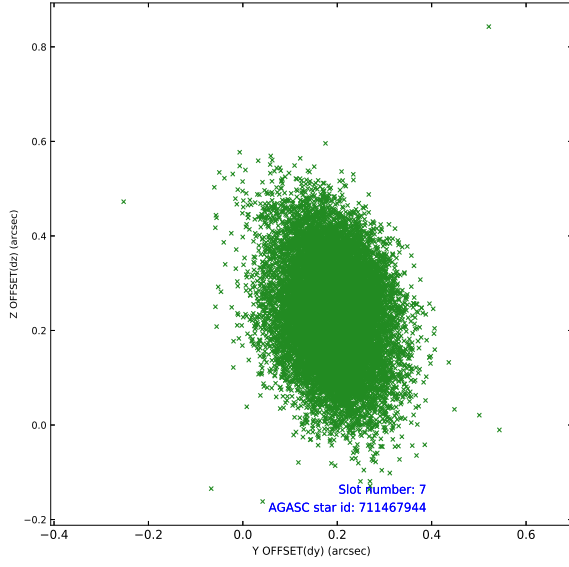
Time (s)



2.4.4 Slot 6

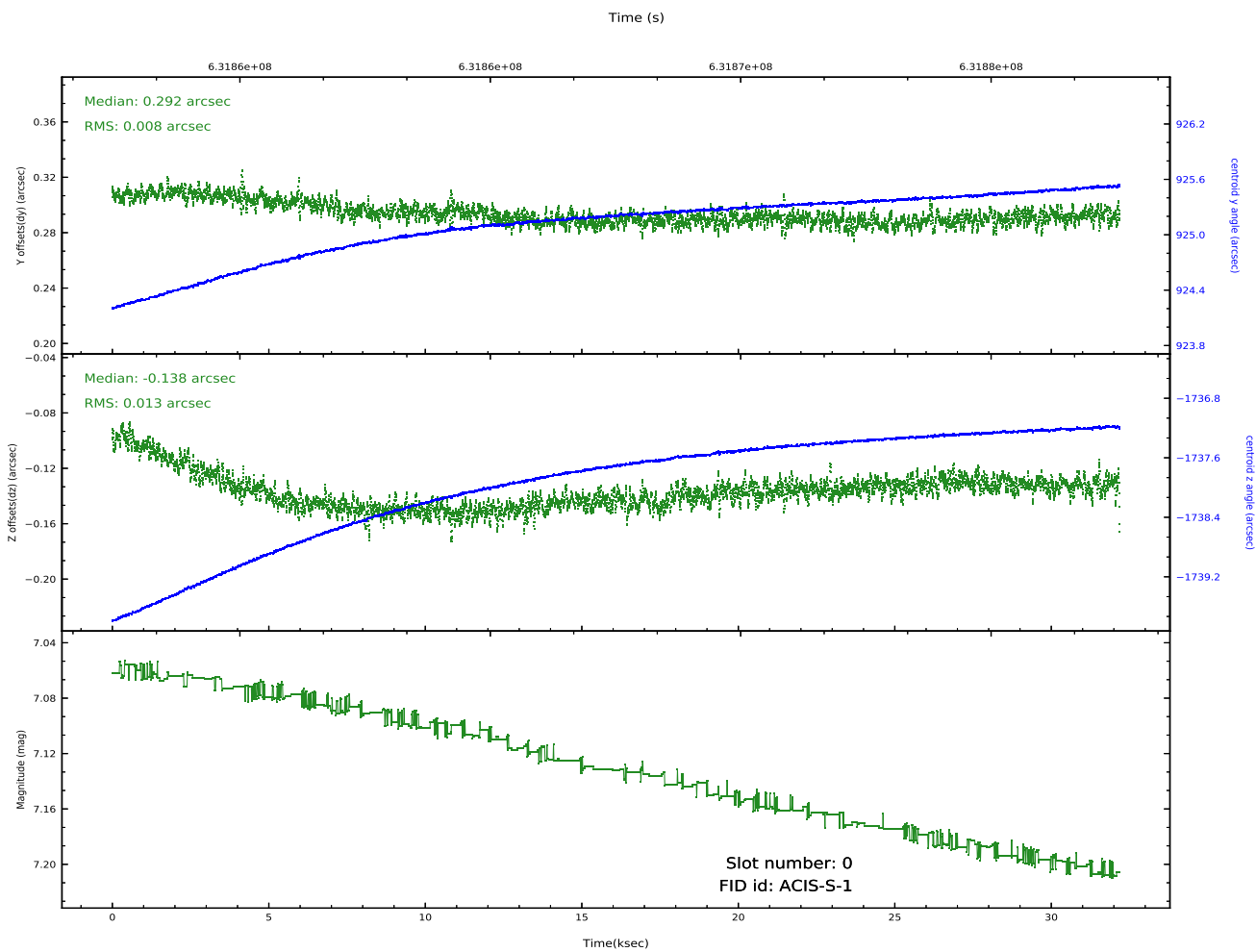
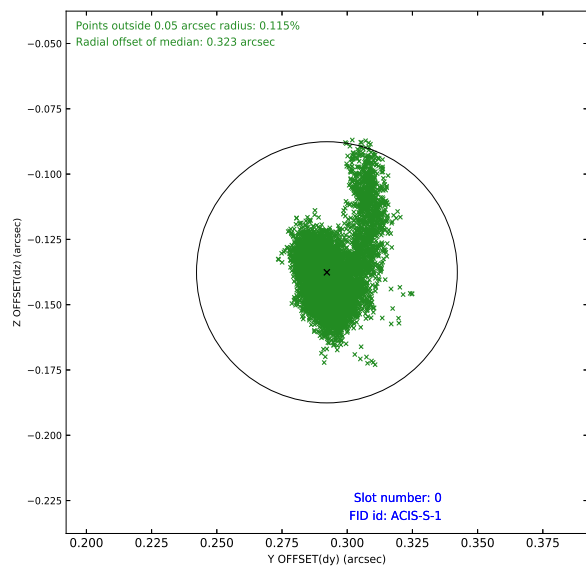
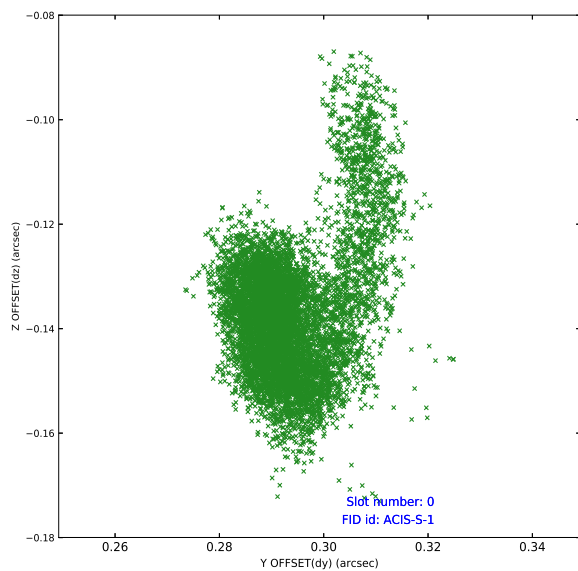


2.4.5 Slot 7

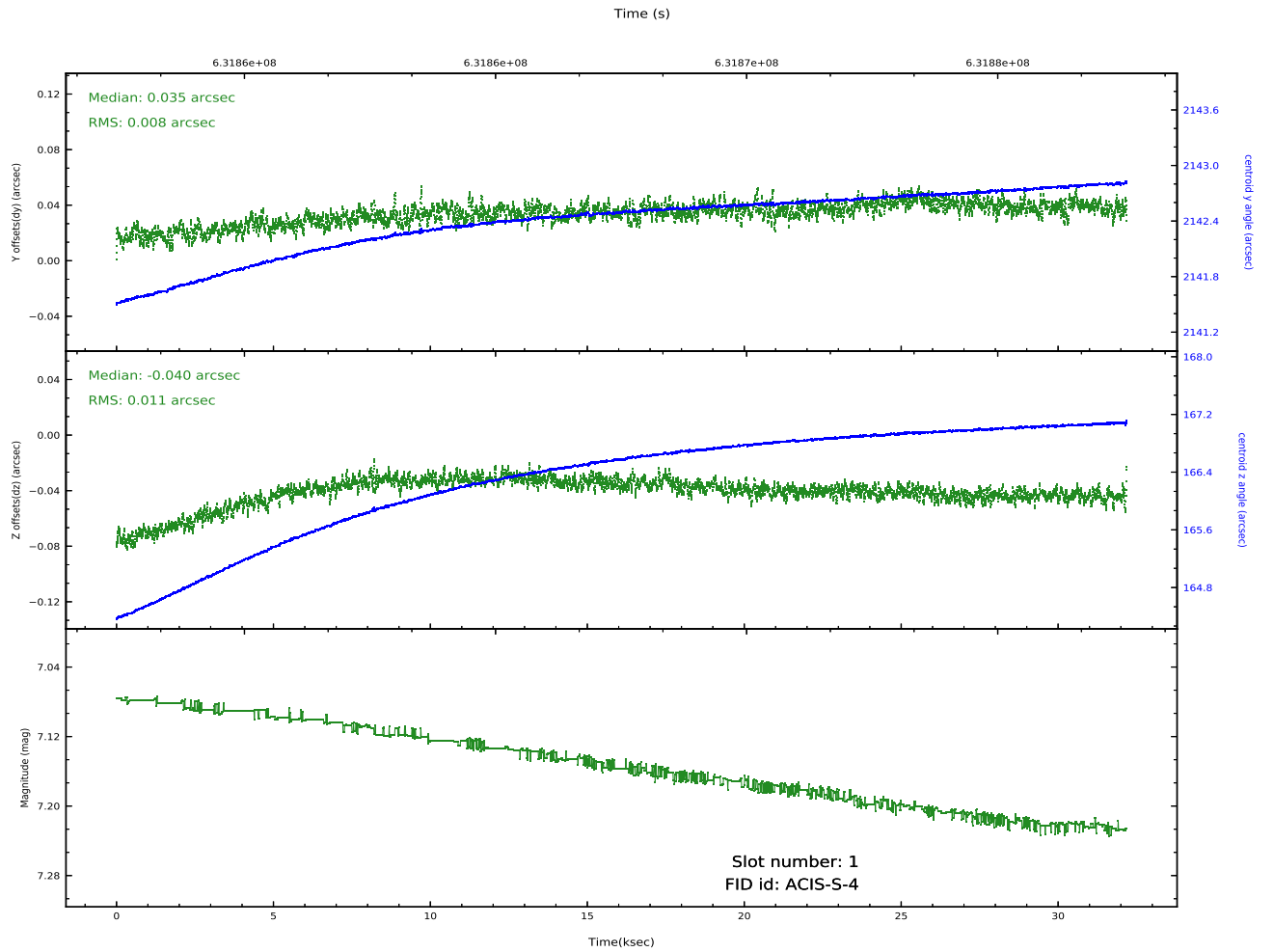
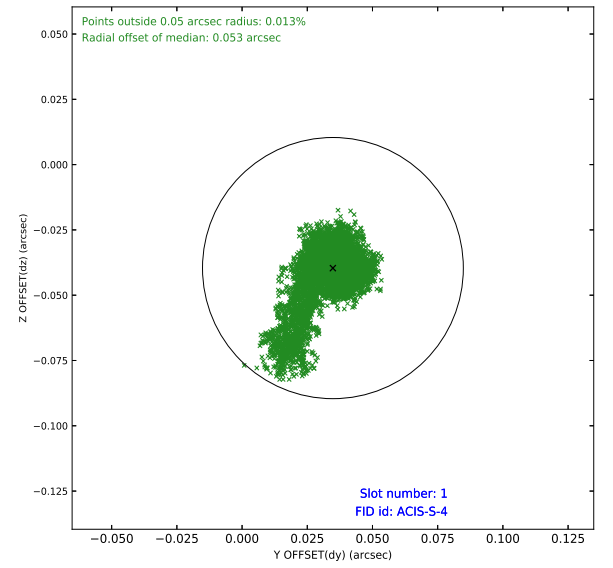
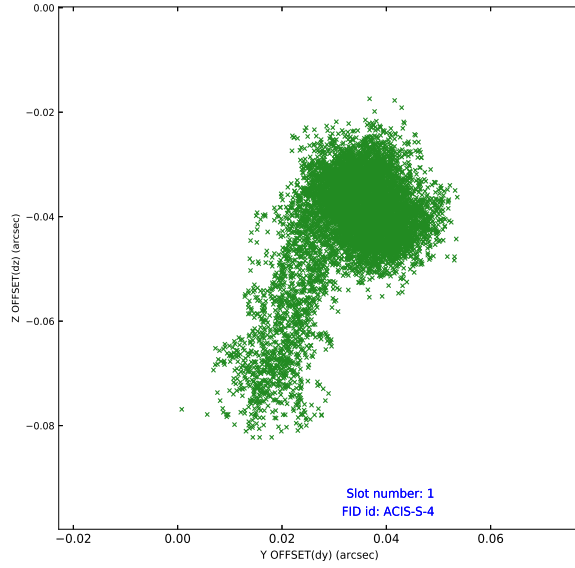


2.5 FID Slots

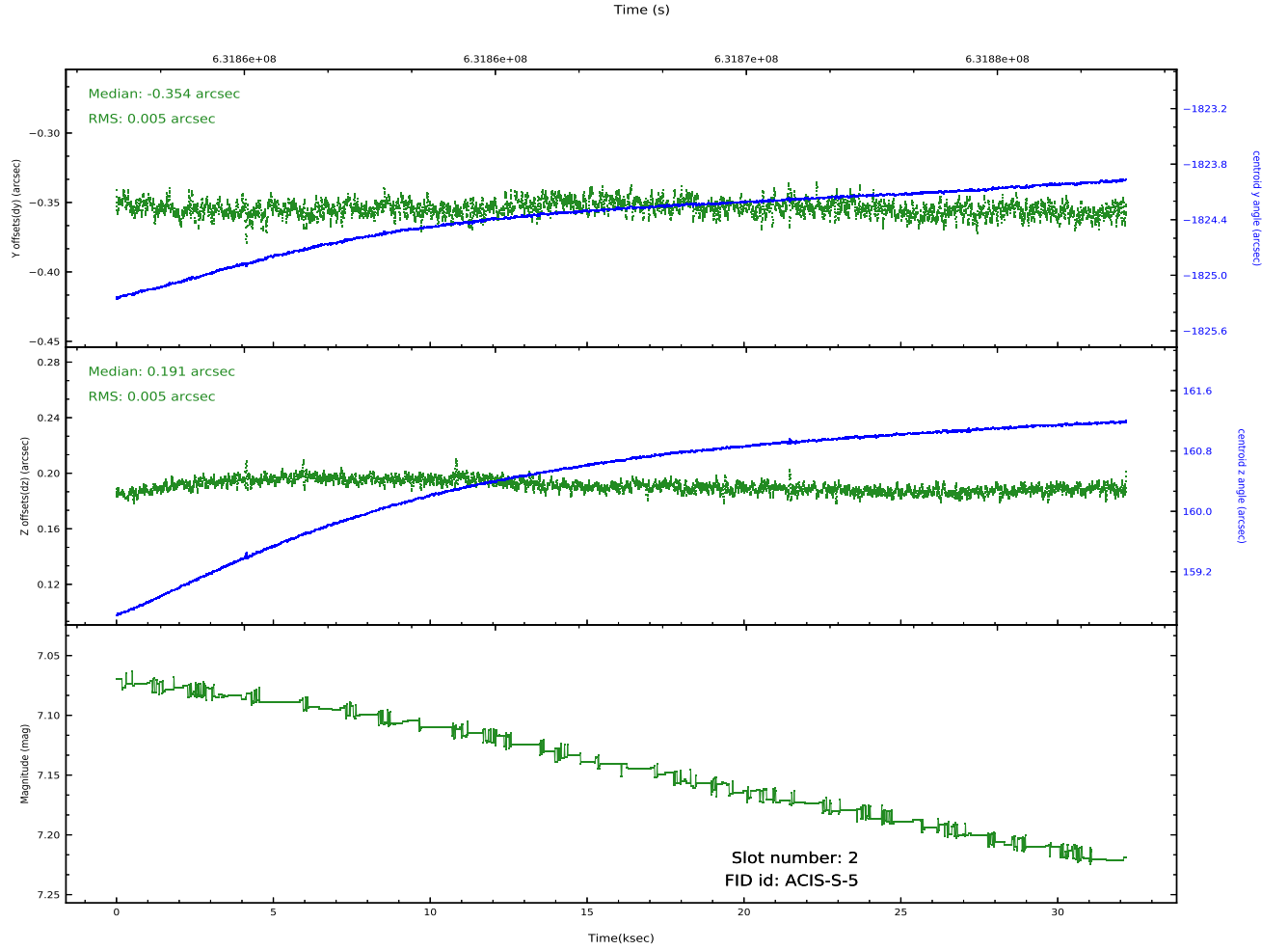
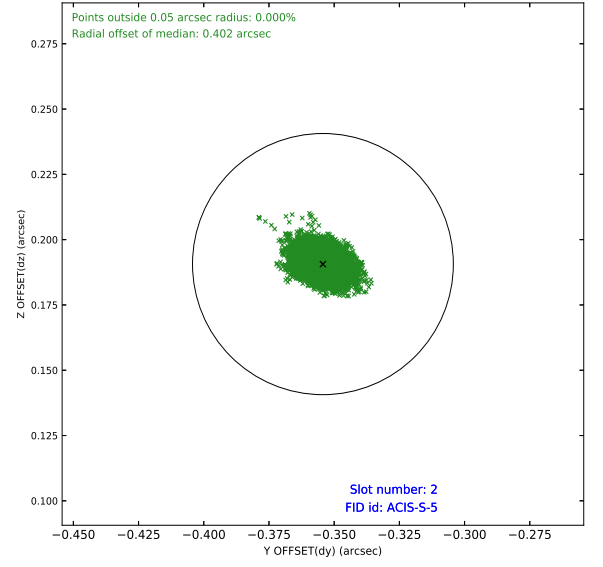
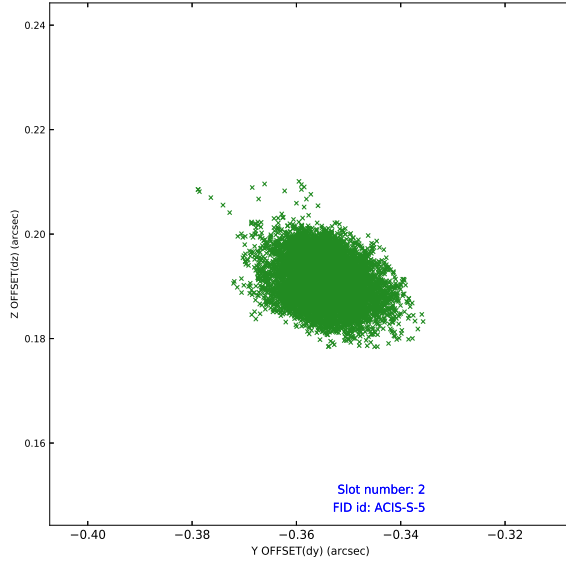
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.069167904854

A.2 Comments

Two optional chips were dropped.