

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20362 - L2 Version 2
Chandra X-Ray Center

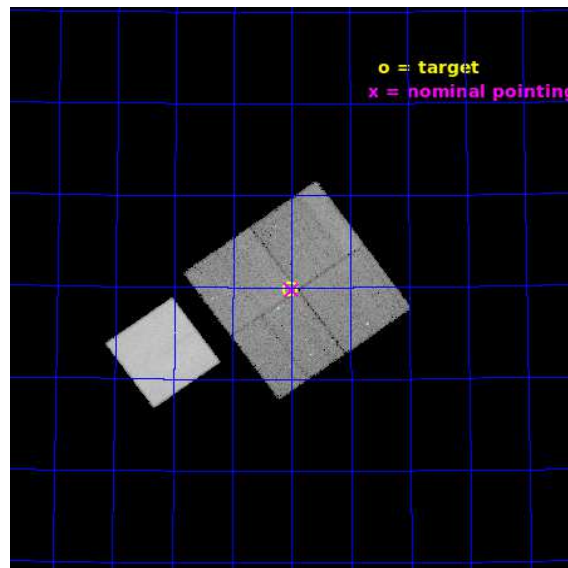
L2 Processing Date : Oct 26 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

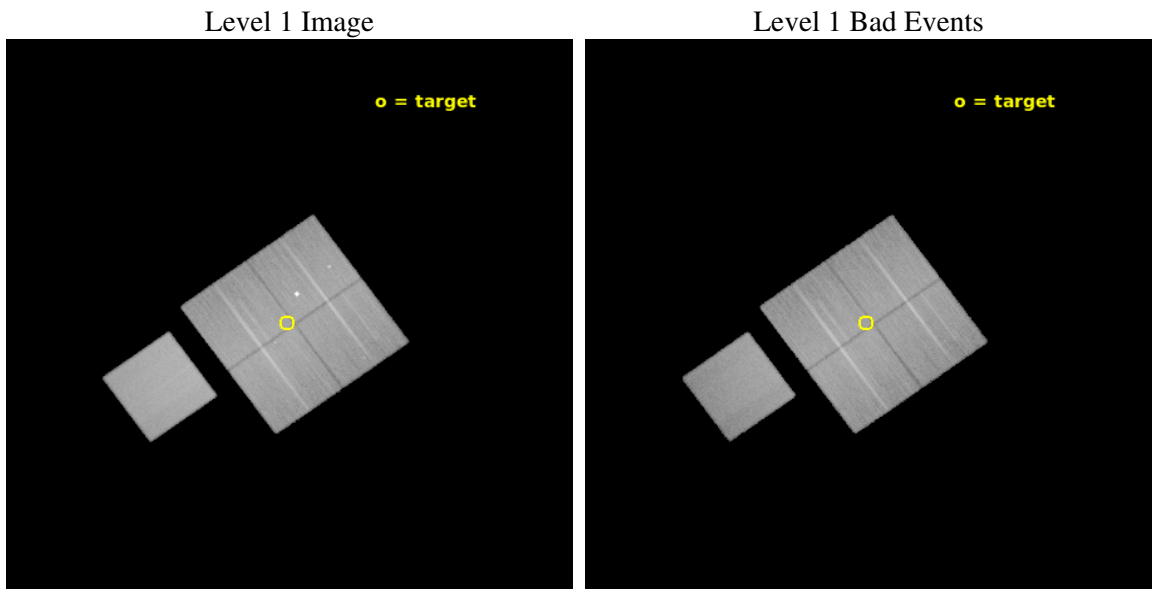
seq_num	901405	Sequence number
obs_id	20362	Observation id
title	Deep Pilot X-ray Observations of the JWST-NEP Time Domain Field	Pr
observer	Walter Maksym	Principal investigator
object	JWST-DTDF-5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.757571	Observer's specified target RA [deg]
dec_targ	65.830361	Observer's specified target Dec [deg]
ra_nom	260.74971901376	Nominal RA [deg]
dec_nom	65.829083100345	Nominal Dec [deg]
roll_nom	234.20571553824	Nominal Roll [deg]
revision	2	Processing version of data
ontime	46045.975783229	Sum of GTIs [s]
livetime	45444.351211067	Livetime [s]
ontime0	46052.134703636	Sum of GTIs [s]
ontime1	46055.316754103	Sum of GTIs [s]
ontime2	46055.357794046	Sum of GTIs [s]
ontime3	46045.975783229	Sum of GTIs [s]
ontime7	46055.439874053	Sum of GTIs [s]
l2events	316067	Number of level 2 events



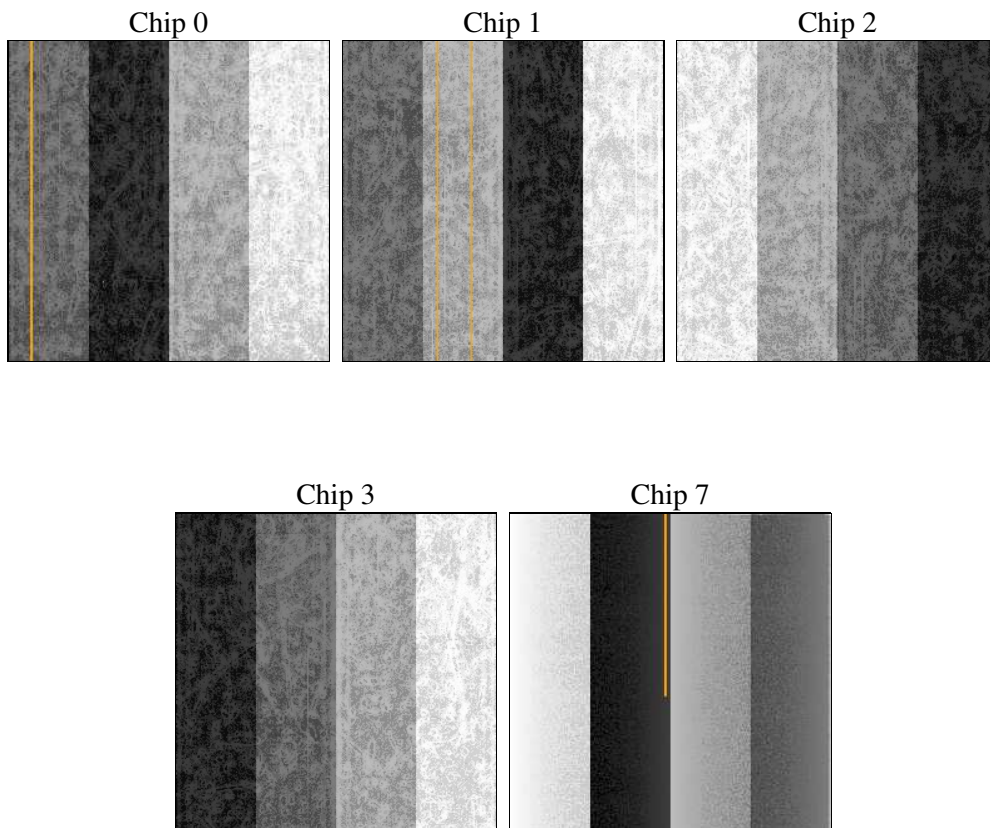
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	46045.975783229	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	46052.134703636	Sum of GTIs [s]
date	2020-10-26T21:05:52	Date and time of file creation	ontime1	46055.316754103	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	46055.357794046	Sum of GTIs [s]
			ontime3	46045.975783229	Sum of GTIs [s]
			ontime7	46055.439874053	Sum of GTIs [s]
			l1events	1812678	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	320519	347209	355911	343131	445908
rejected events	281828	288956	318043	305805	253584
rejected %	87%	83%	89%	89%	56%

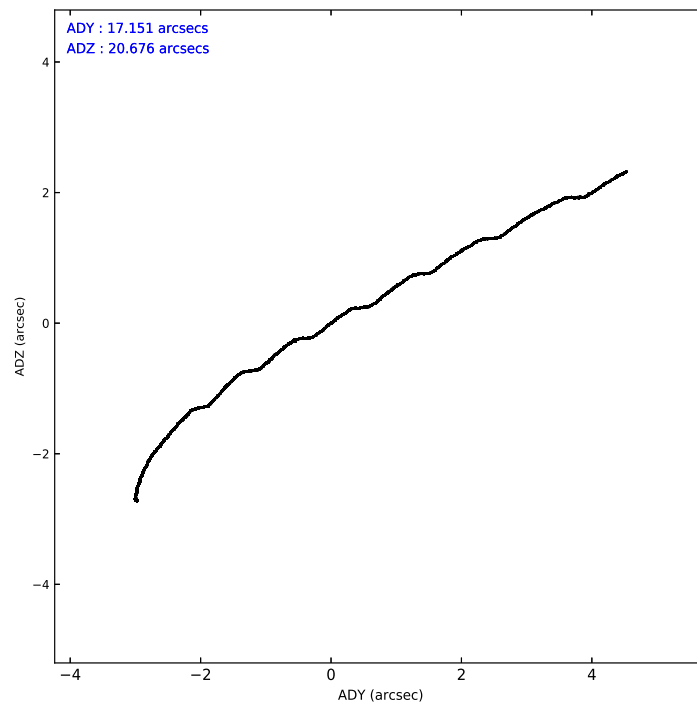
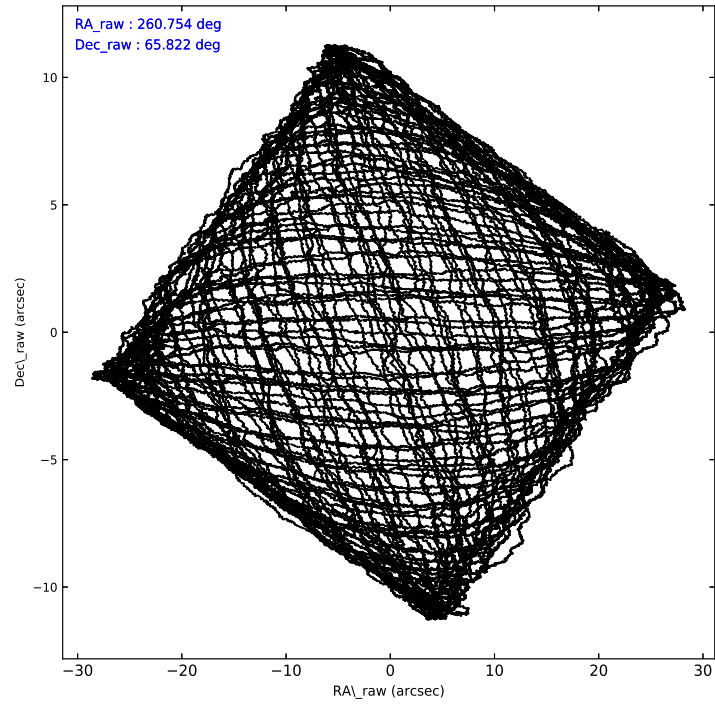
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	13103	29325	13514	13682	16010
	4%	8%	3%	3%	3%
grade 1 events	181	253	190	176	695
	0%	0%	0%	0%	0%
grade 2 events	10032	11418	9444	8298	40825
	3%	3%	2%	2%	9%
grade 3 events	3894	3967	3725	3754	15053
	1%	1%	1%	1%	3%
grade 4 events	3645	3855	3782	3890	15036
	1%	1%	1%	1%	3%
grade 5 events	14644	15286	13613	16266	44193
	4%	4%	3%	4%	9%
grade 6 events	8023	9691	7406	7706	105419
	2%	2%	2%	2%	23%
grade 7 events	266997	273414	304237	289359	208677
	83%	78%	85%	84%	46%

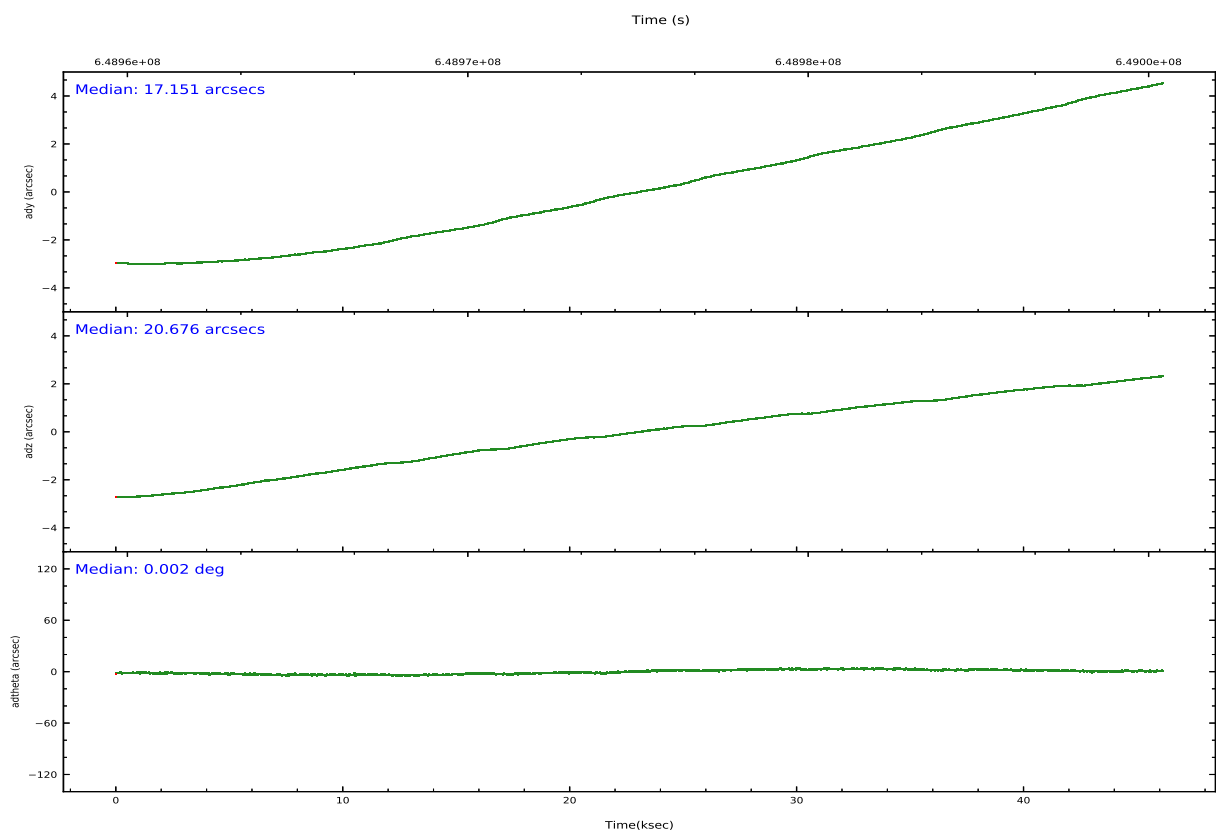
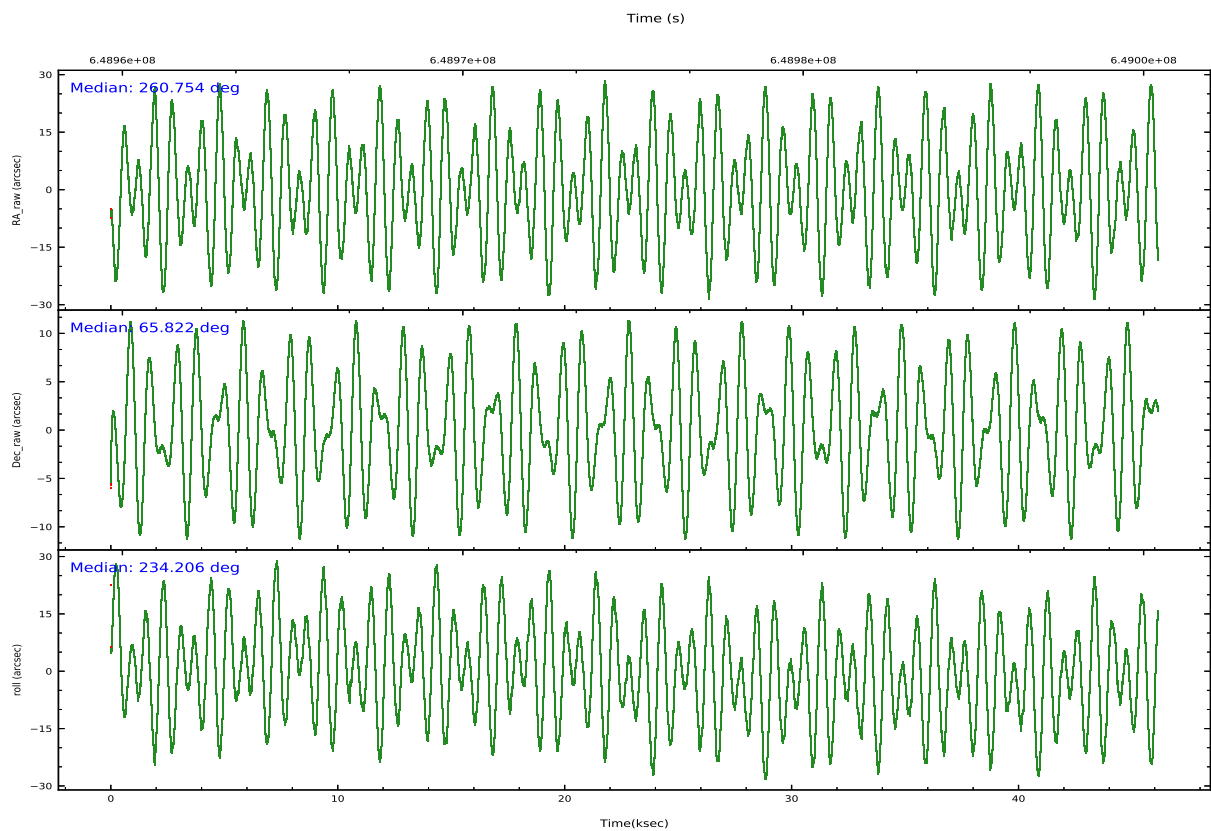
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	260.760930	260.74971901376
[deg] Pointing Dec	65.849053	65.829083100345
[deg] Pointing Roll	233.996937	234.20571553824
[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)	648954640.184000	648953377.80293
Observation start date	2018-07-26T01:09:31	2018-07-26T00:49:37
[s] Observation end time (MET)	649000640.184000	649001660.4307899
Observation end date	2018-07-26T13:56:11	2018-07-26T14:14:20
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	O2	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



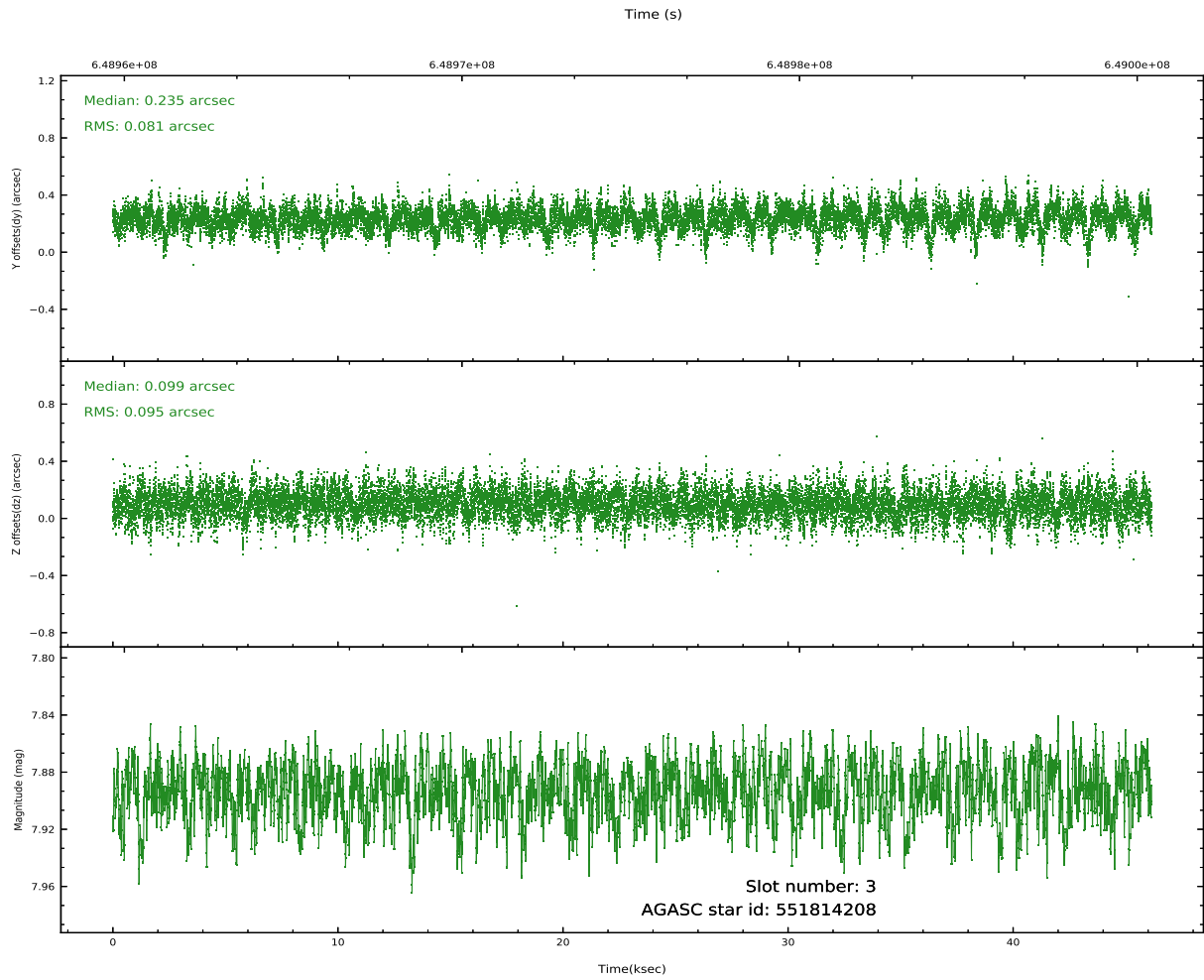
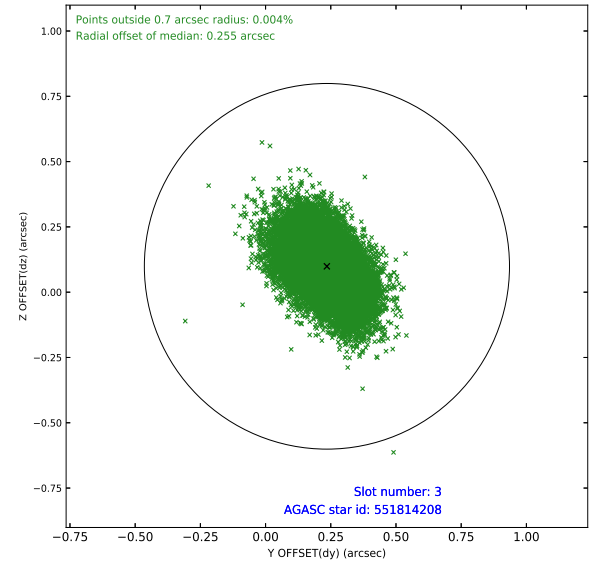
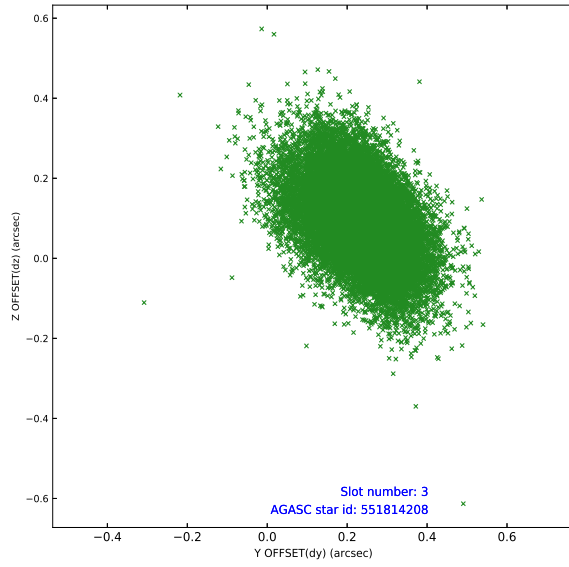


Slot Statistics

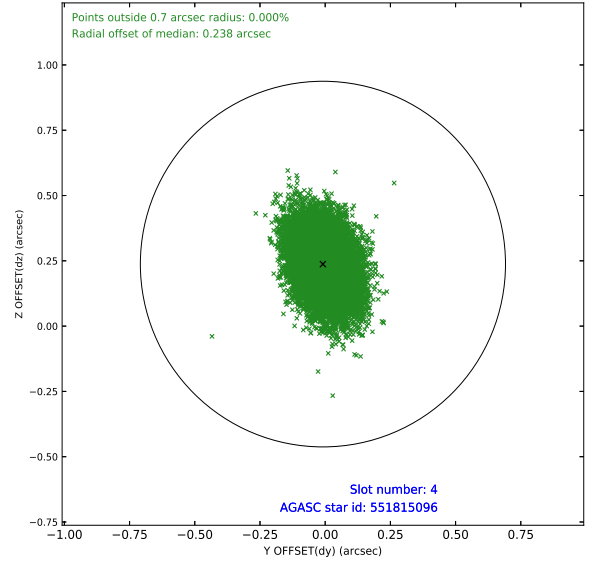
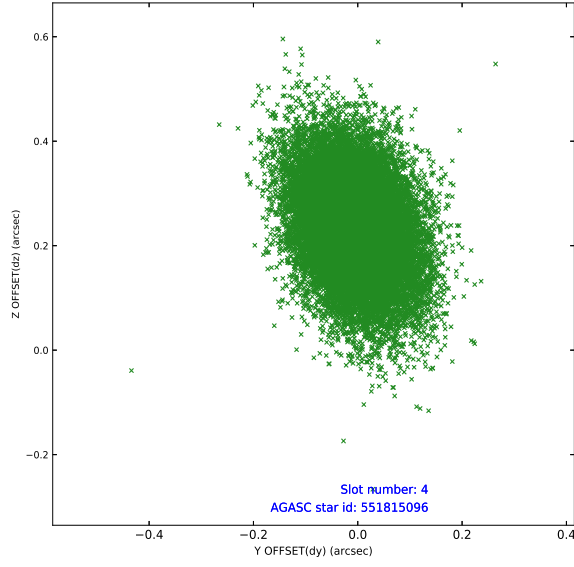
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	11257	1.000	0.188	-0.095	0.037	0.054	0.000000	0.000000	922.21	-844
1	FID		ACIS-I-5	7.16	11255	1.000	-0.288	0.162	0.022	0.029	0.000000	0.000000	-1826.26	1053
2	FID		ACIS-I-6	7.18	11256	1.000	0.016	0.011	0.036	0.058	0.000000	0.000000	387.74	1697
3	GUIDE	used	551814208	7.89	22505	1.000	0.235	0.099	0.128	0.226	260.175311	65.639944	1117.06	-262
4	GUIDE	used	551815096	6.74	22510	1.000	-0.009	0.238	0.109	0.188	260.236273	66.562724	-1639.84	-2120
5	GUIDE	used	551951232	7.91	22504	1.000	-0.099	0.024	0.168	0.281	262.419848	65.894071	-1591.42	1858
6	GUIDE	used	551952296	8.72	22501	1.000	0.016	-0.066	0.133	0.230	261.999680	65.847021	-1081.22	1470
7	GUIDE	used	551422208	8.56	22496	1.000	-0.150	-0.285	0.144	0.249	261.600178	65.236311	1033.65	2315

2.4 Star Slots

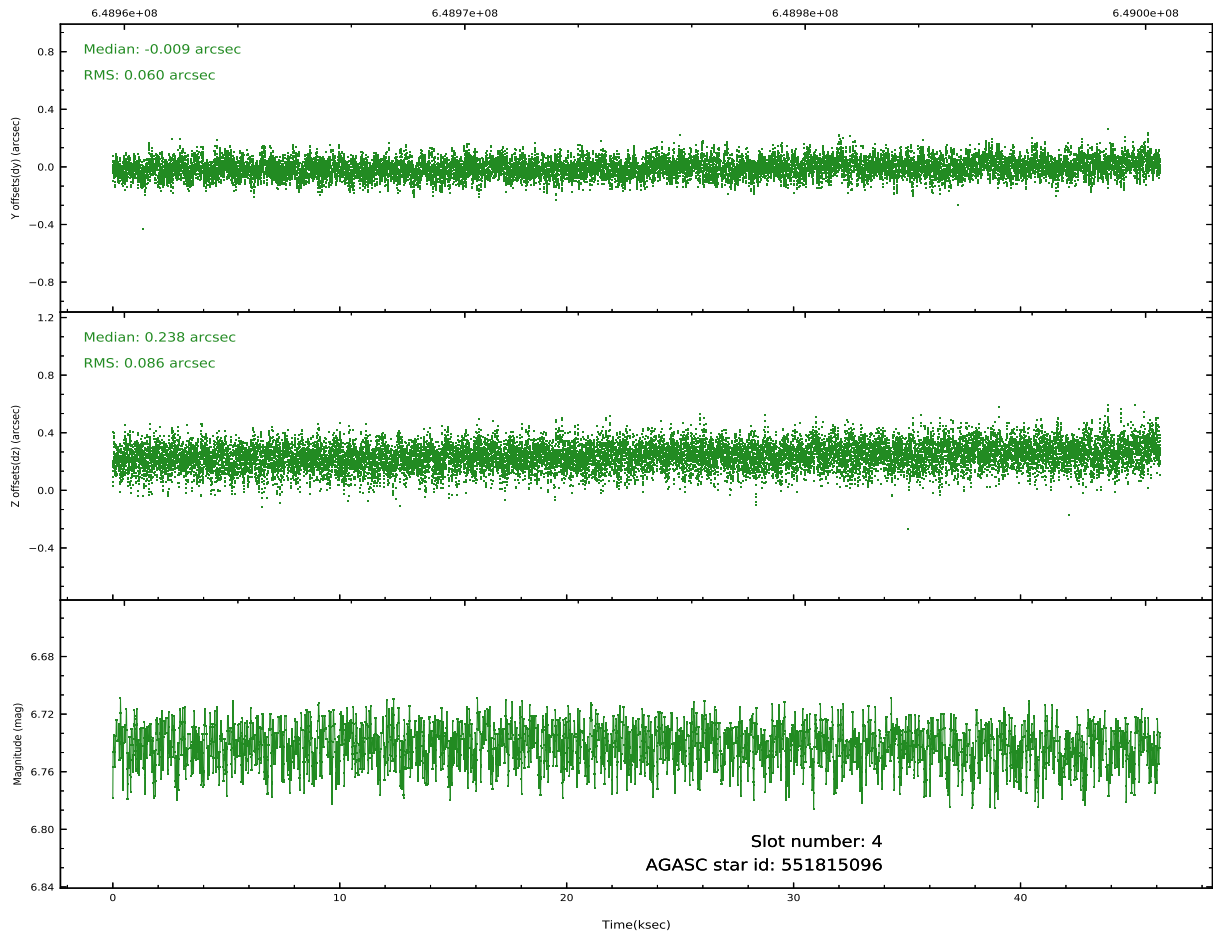
2.4.1 Slot 3



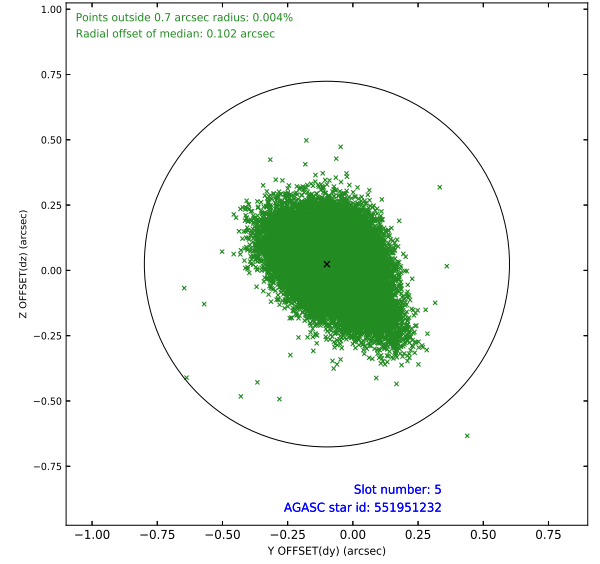
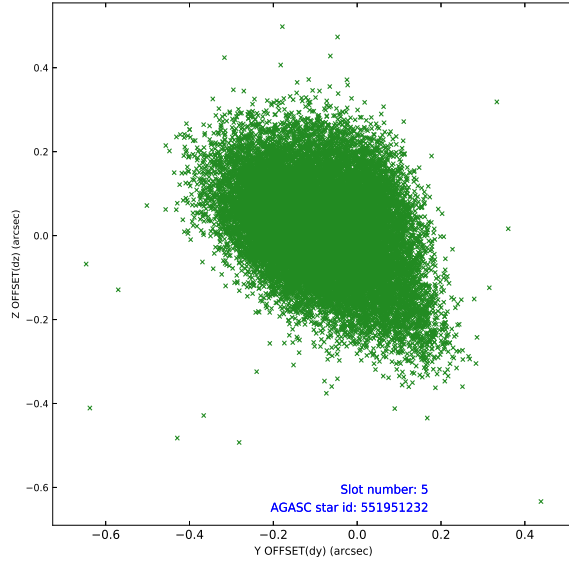
2.4.2 Slot 4



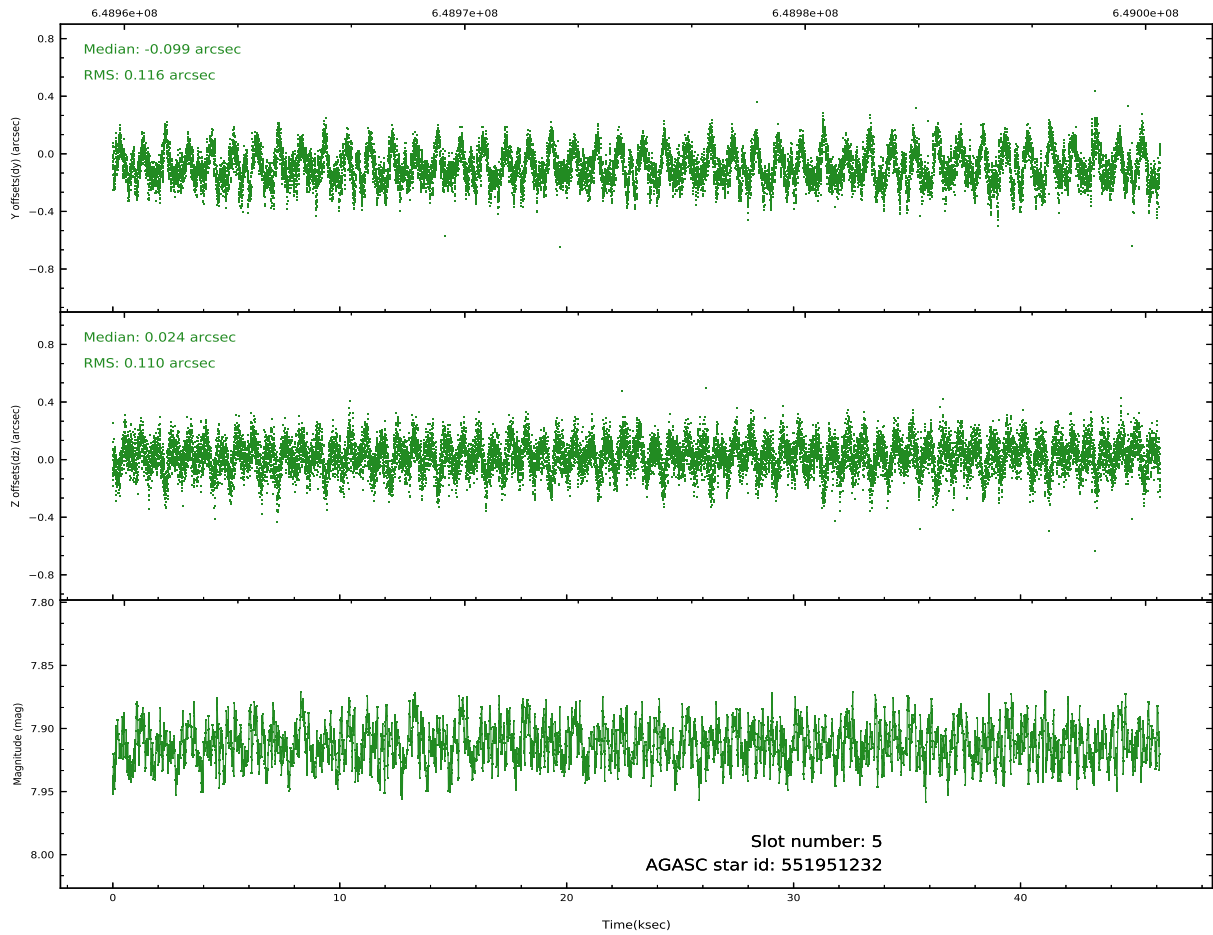
Time (s)



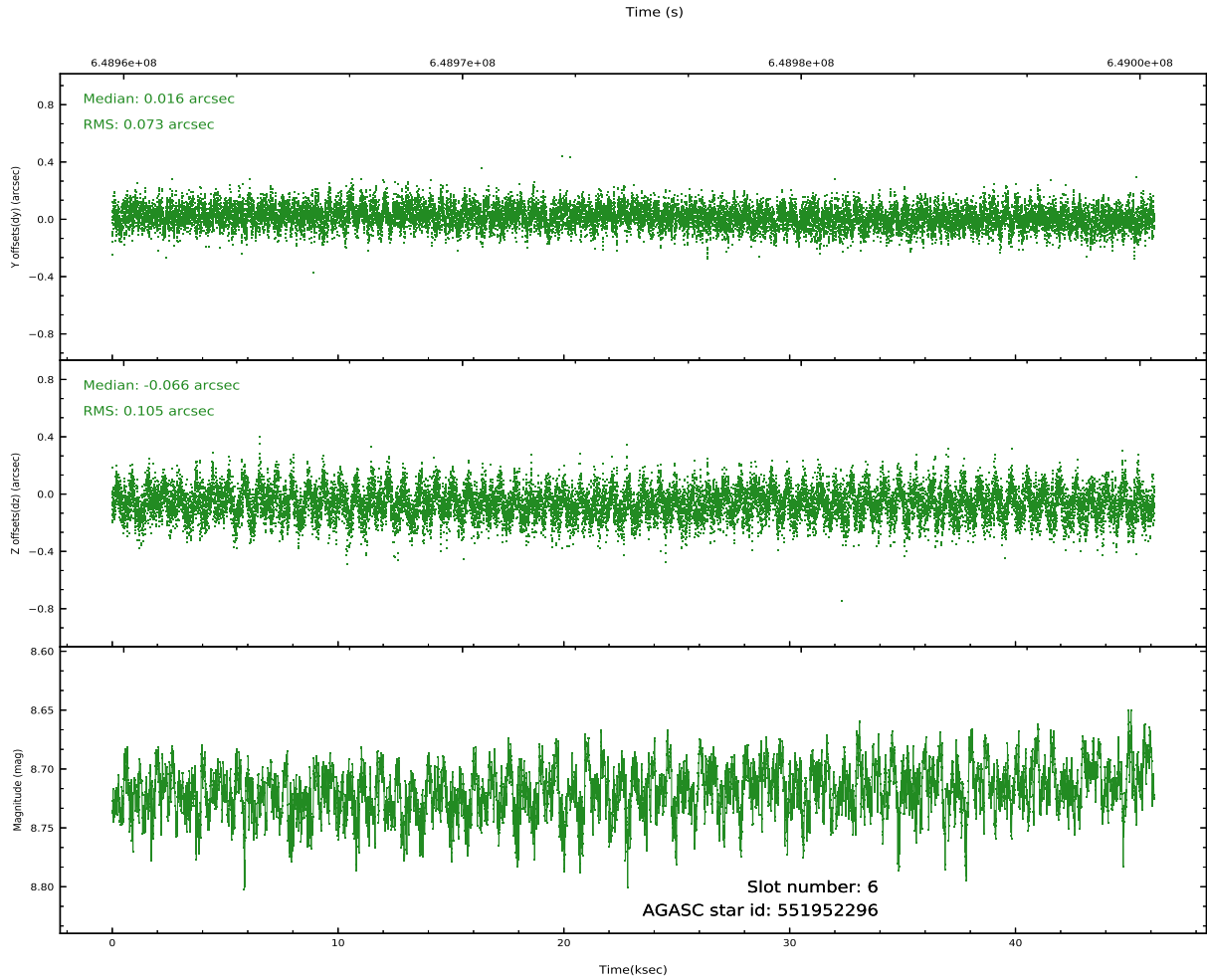
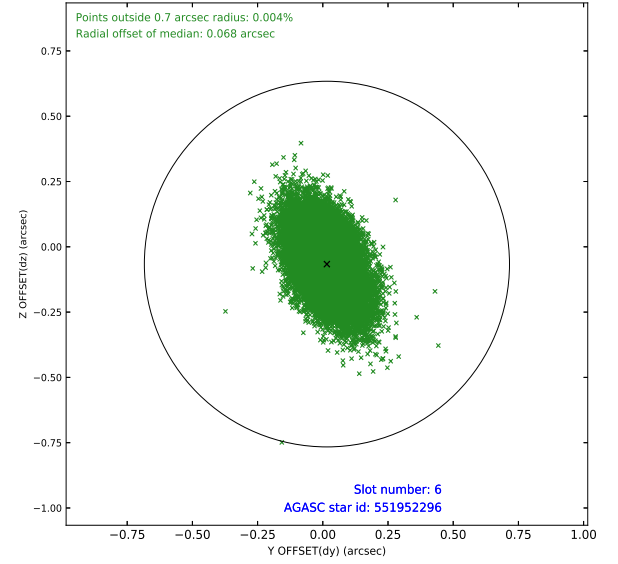
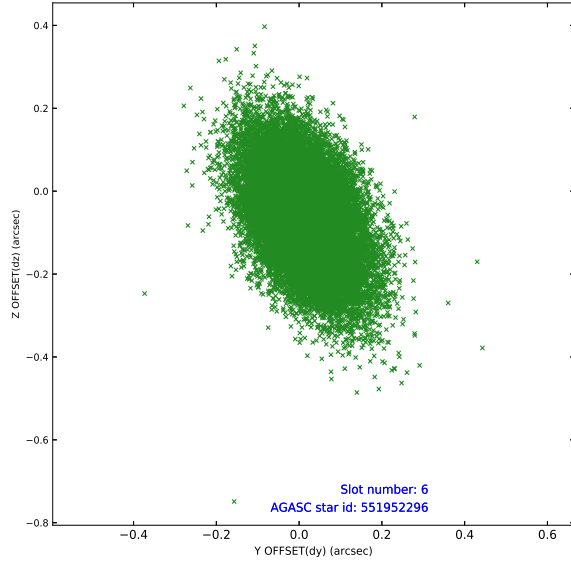
2.4.3 Slot 5



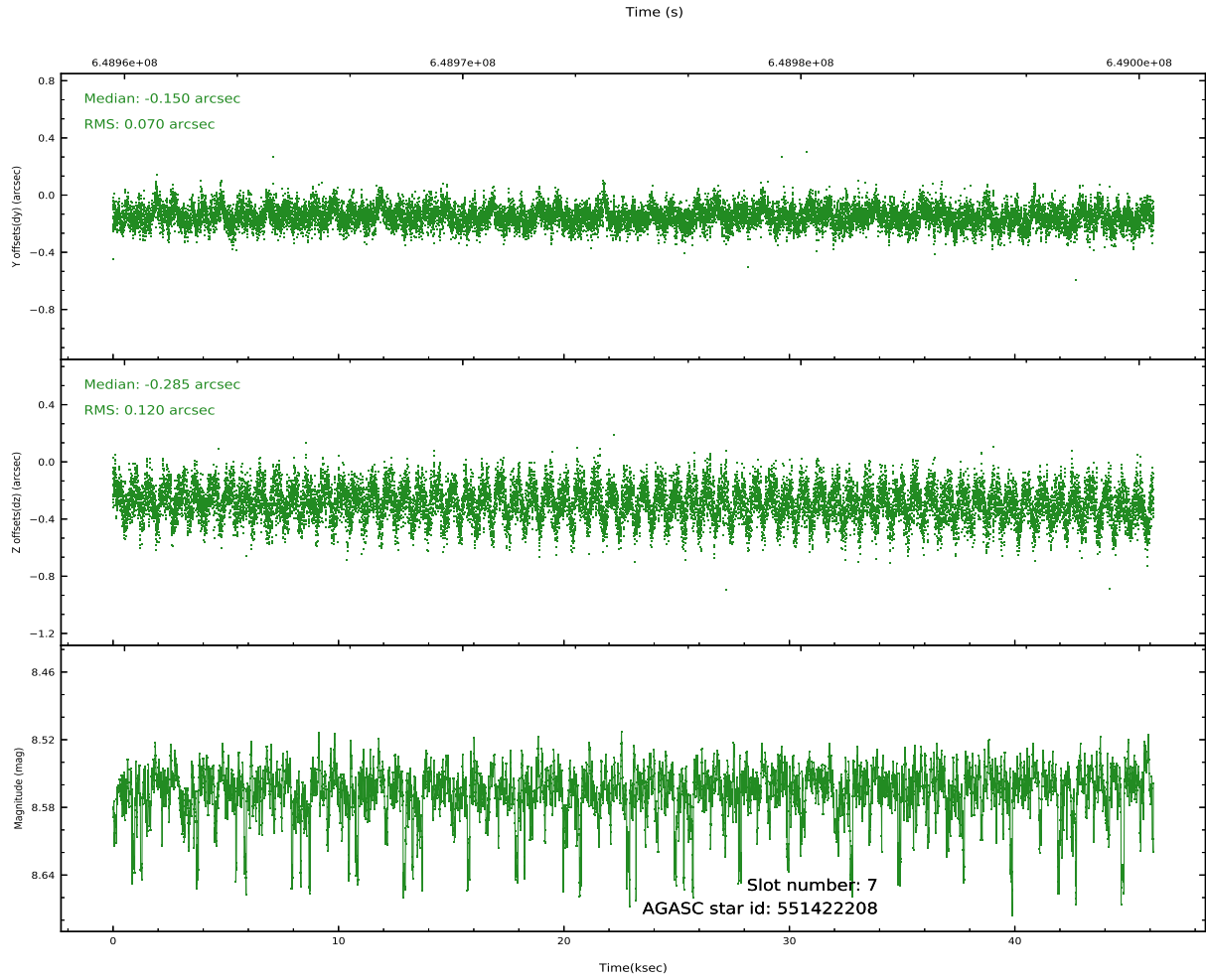
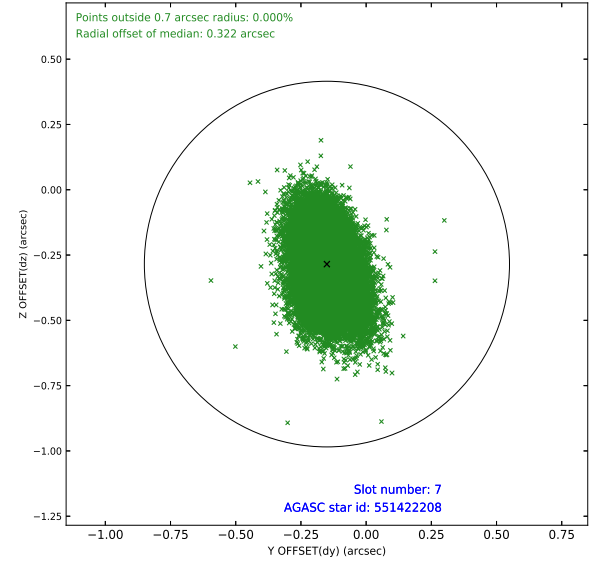
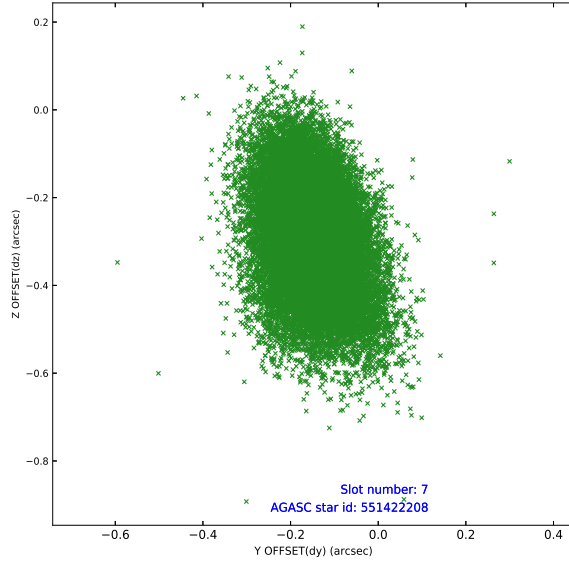
Time (s)



2.4.4 Slot 6

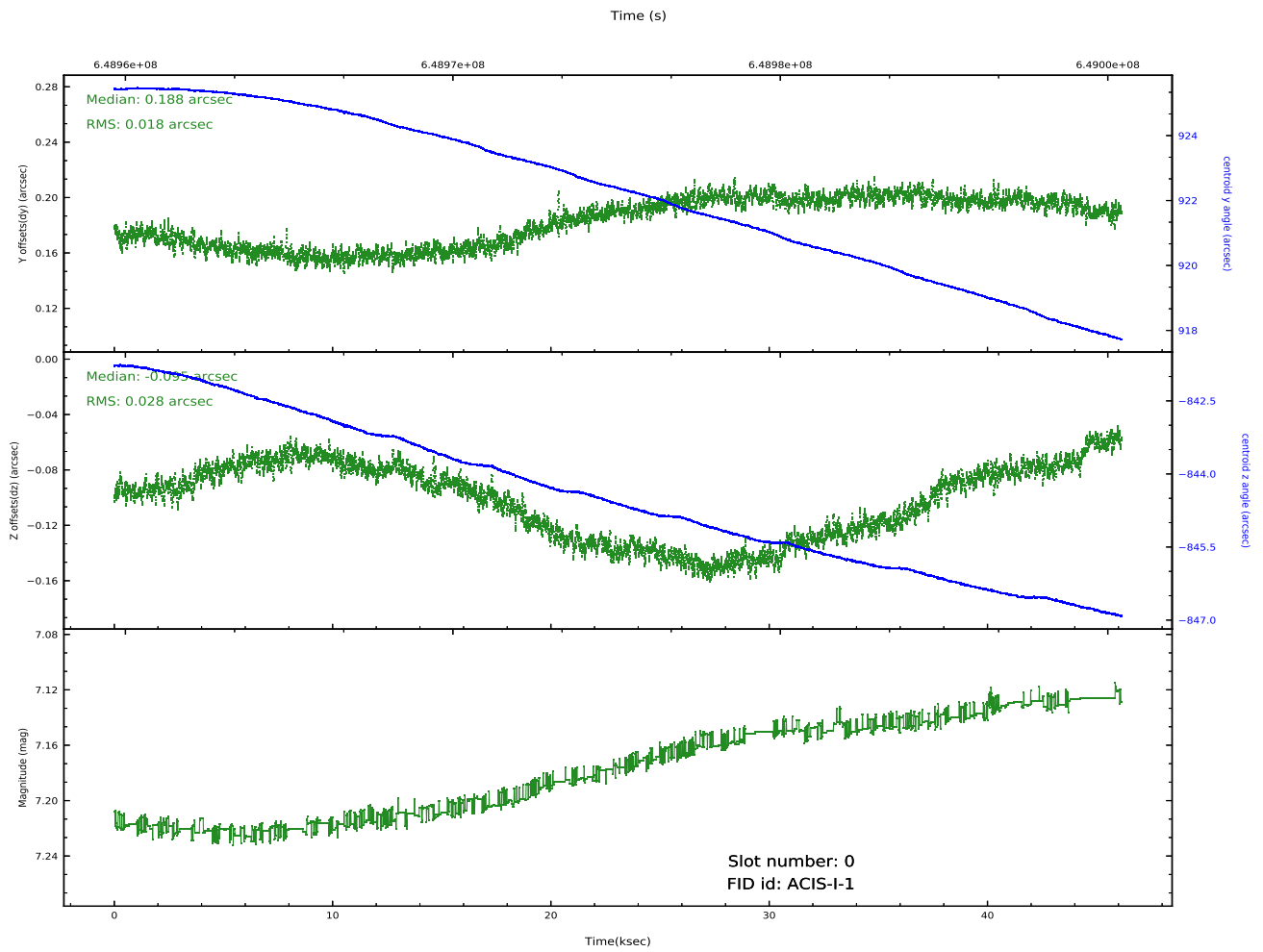
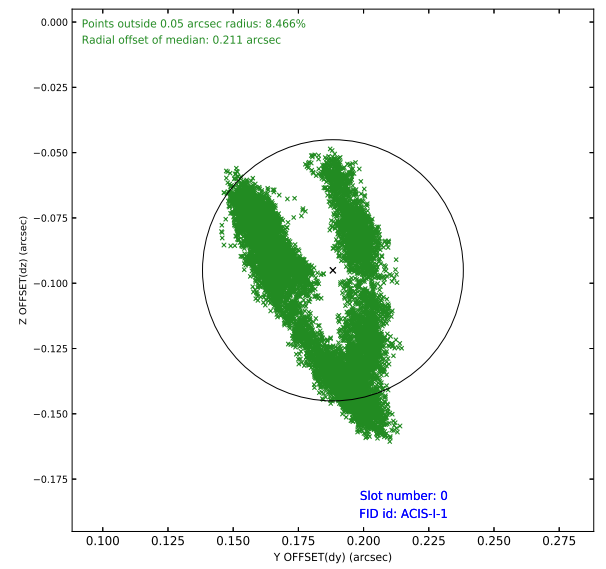
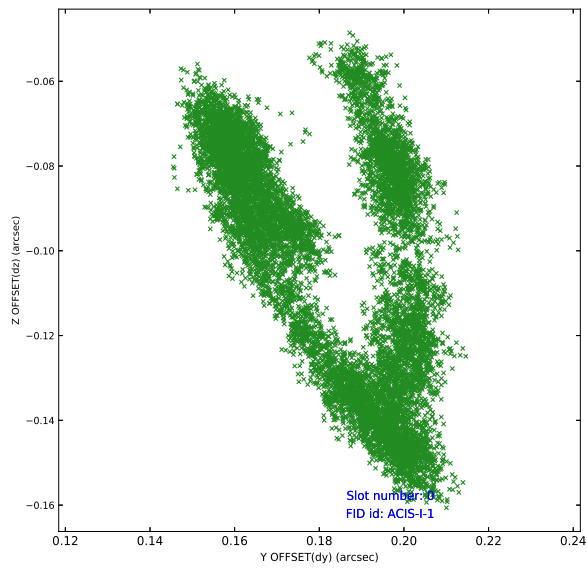


2.4.5 Slot 7

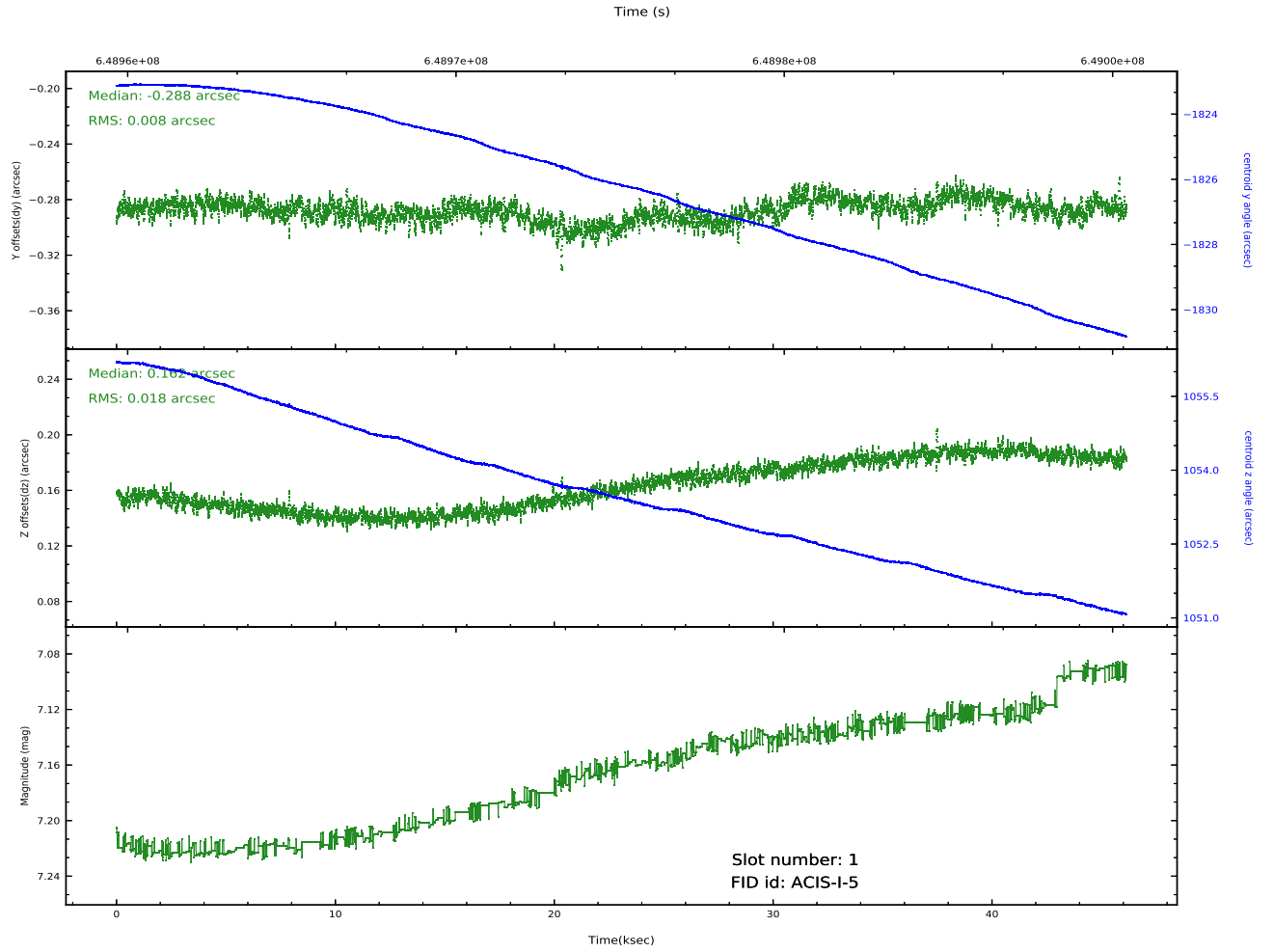
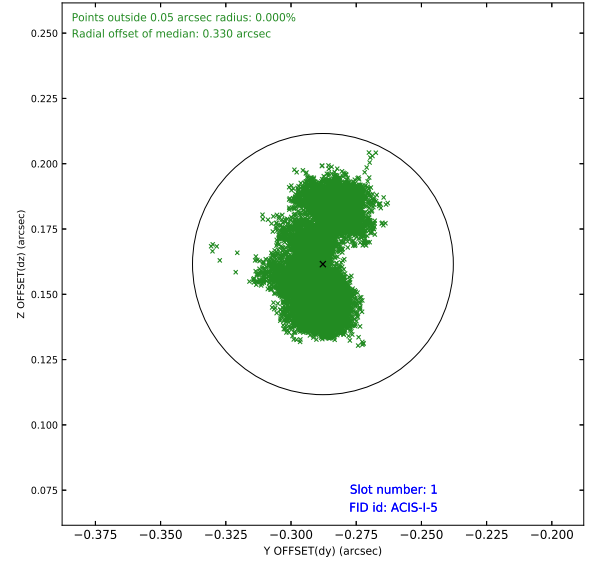
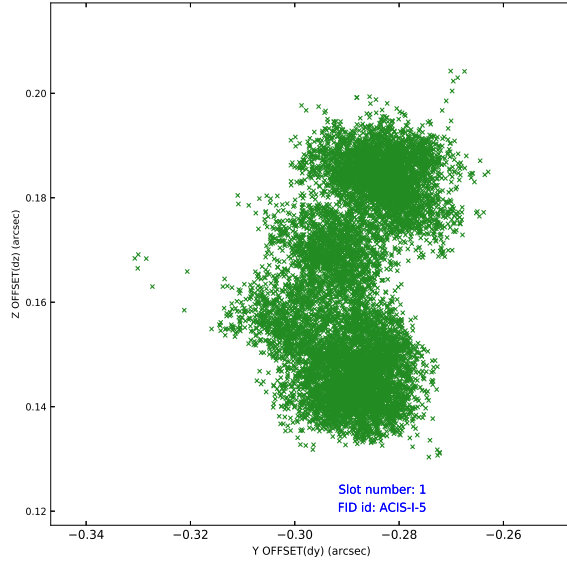


2.5 FID Slots

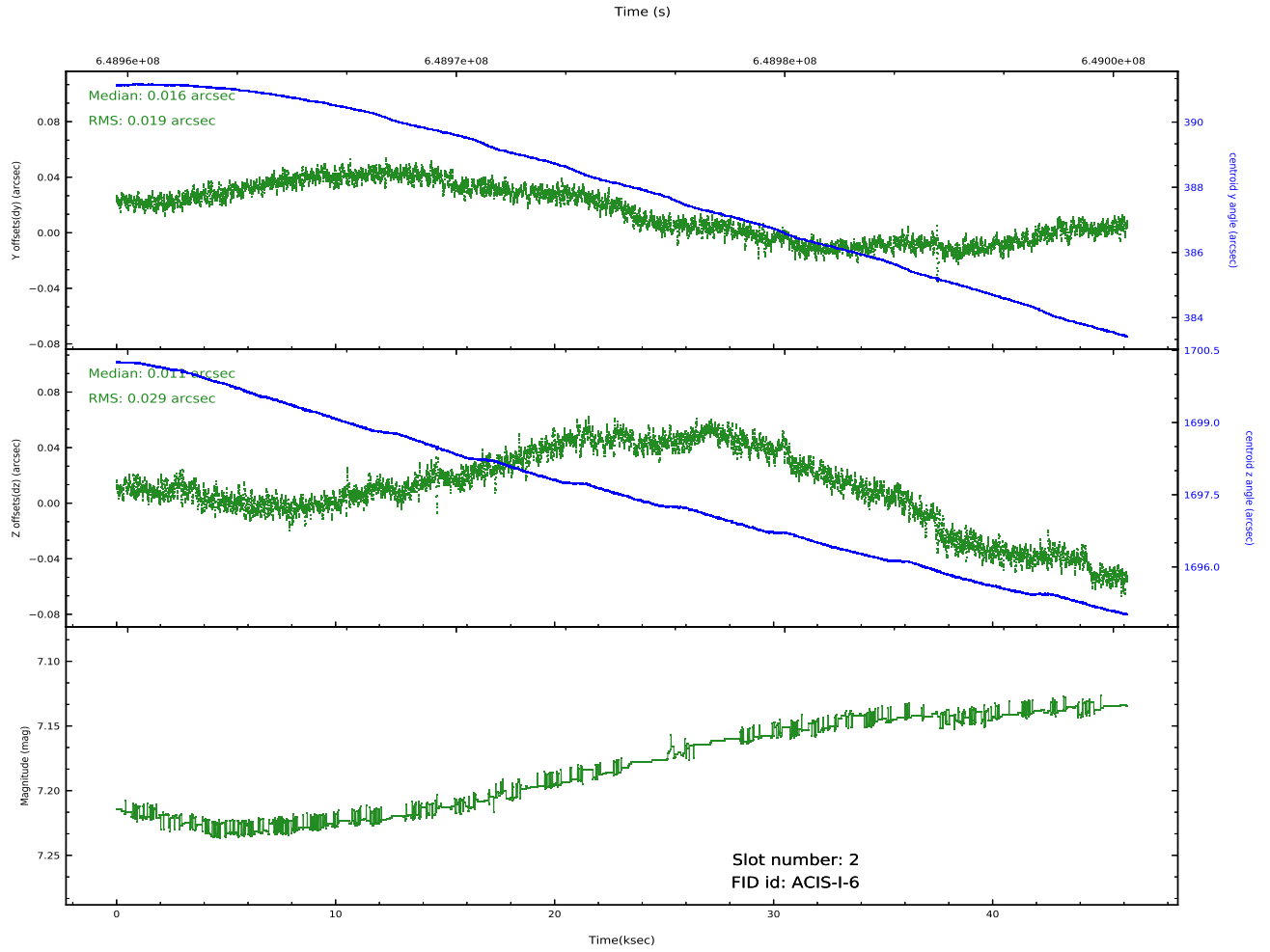
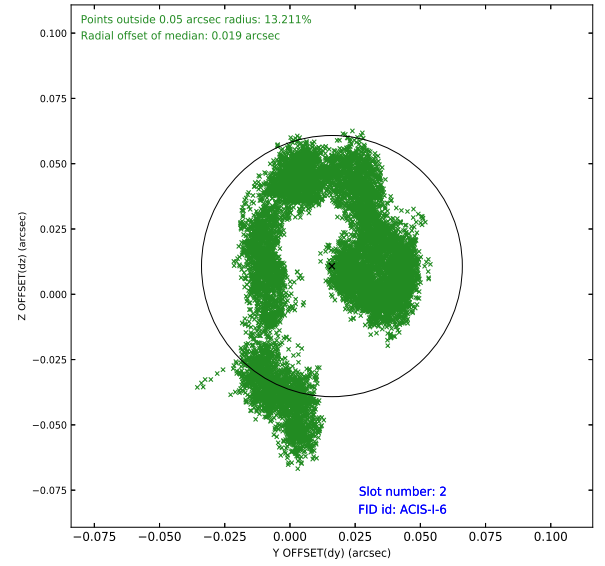
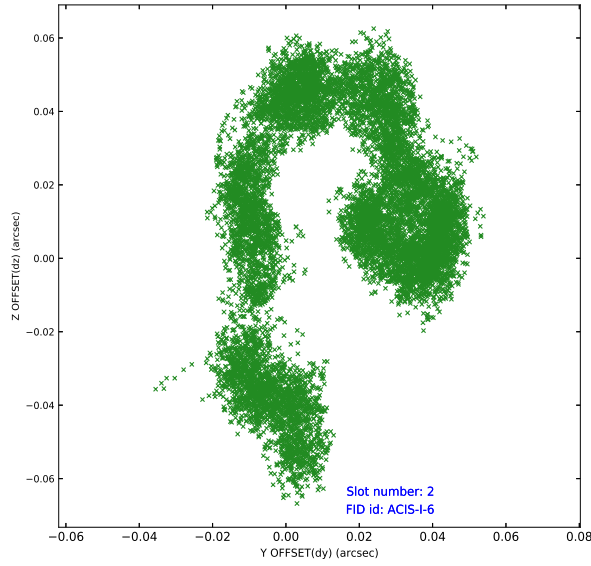
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.045975781798

A.2 Comments

One optional chip was dropped.