

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20479 - L2 Version 2
Chandra X-Ray Center

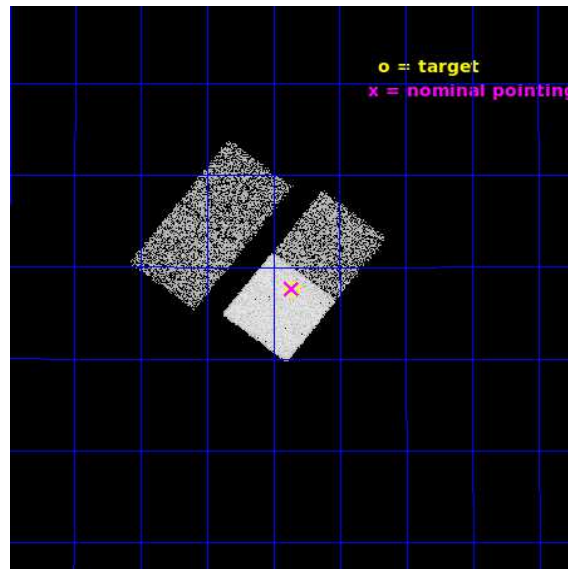
L2 Processing Date : Oct 24 2020

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

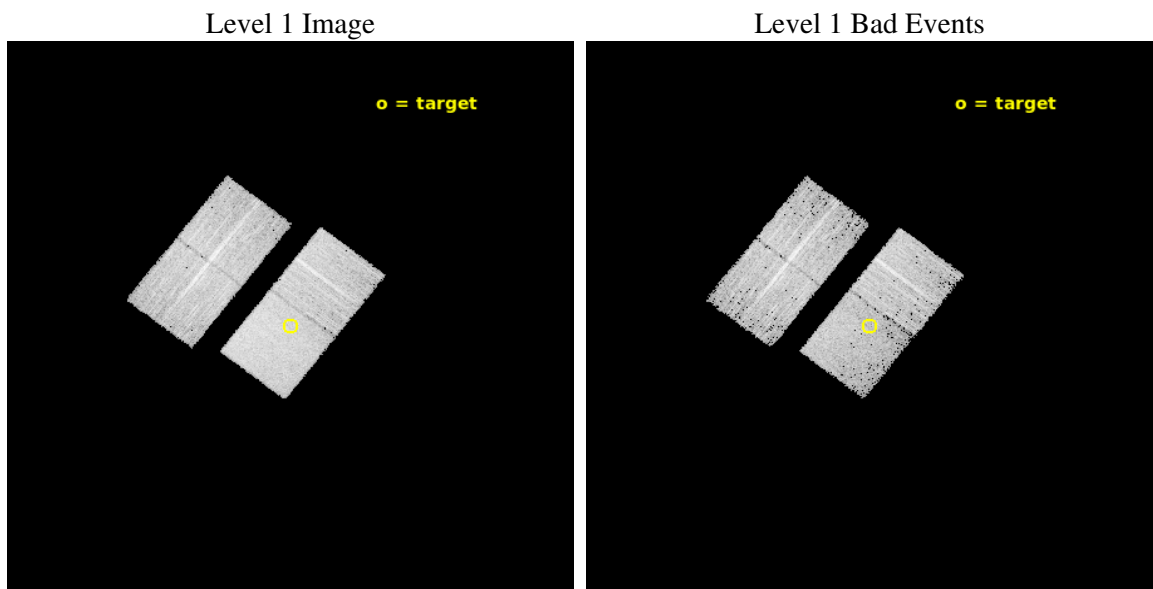
seq_num	703582	Sequence number
obs_id	20479	Observation id
title	Young Radio Sources at High Redshift	Proposal title
observer	Aneta Siemiginowska	Principal investigator
object	SDSS J131121.32+222738.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.83875	Observer's specified target RA [deg]
dec_targ	22.460722	Observer's specified target Dec [deg]
ra_nom	197.83988101929	Nominal RA [deg]
dec_nom	22.460840700641	Nominal Dec [deg]
roll_nom	127.7657809641	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6065.4714277983	Sum of GTIs [s]
liveltime	5986.221578259	Livetime [s]
ontime2	6065.348307848	Sum of GTIs [s]
ontime3	6065.3893477917	Sum of GTIs [s]
ontime6	6065.4303878546	Sum of GTIs [s]
ontime7	6065.4714277983	Sum of GTIs [s]
l2events	37170	Number of level 2 events



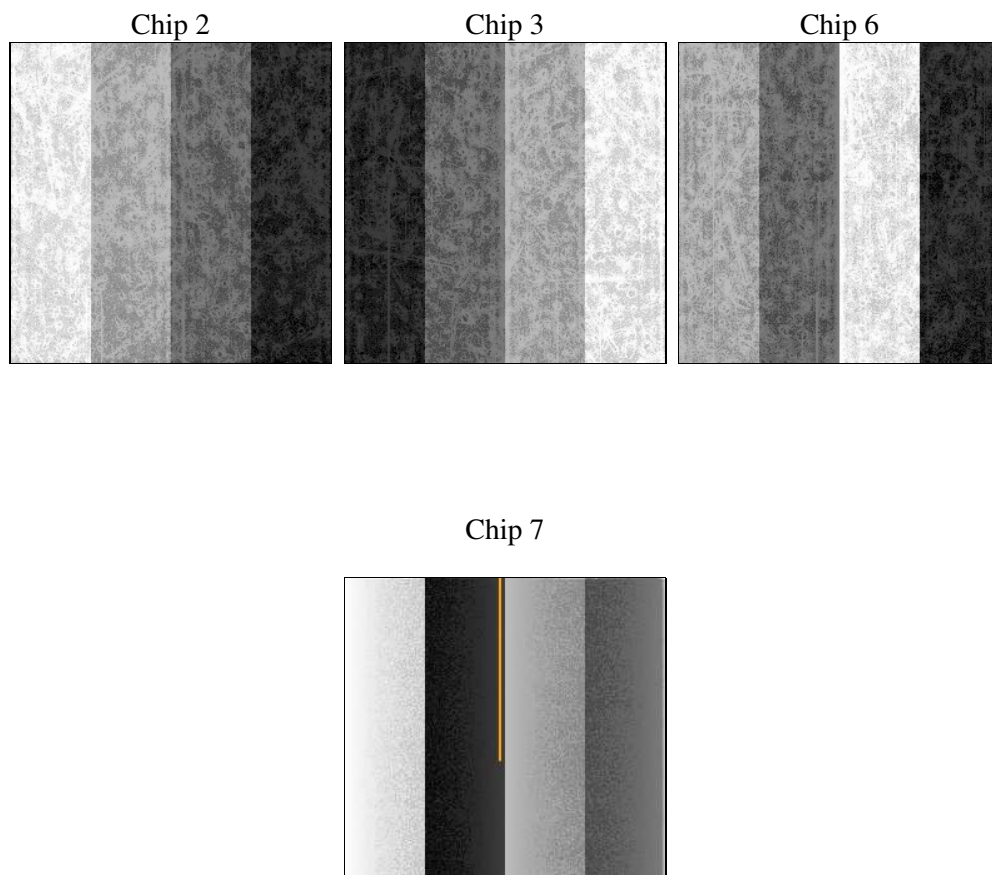
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6065.4714277983	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	6065.348307848	Sum of GTIs [s]
date	2020-10-25T03:09:08	Date and time of file creation	ontime3	6065.3893477917	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6065.4303878546	Sum of GTIs [s]
			ontime7	6065.4714277983	Sum of GTIs [s]
			l1events	201922	Number of level 1 events

2.1.4 Events

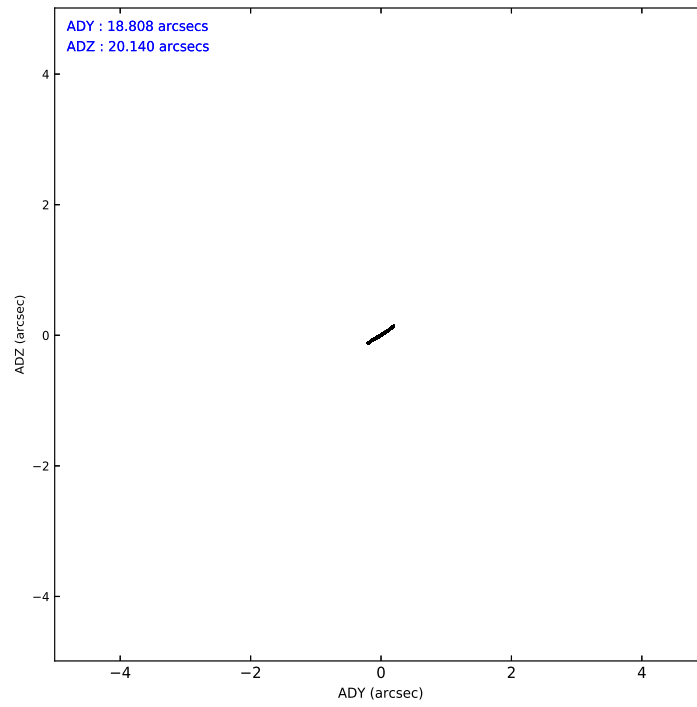
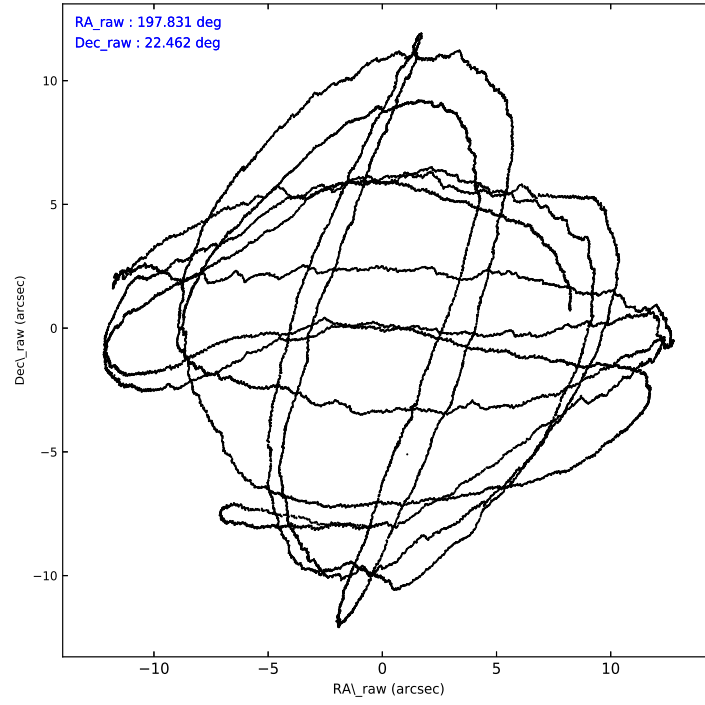
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45793	47053	49767	59309
rejected events	41150	42370	44722	33771
rejected %	89%	90%	89%	56%

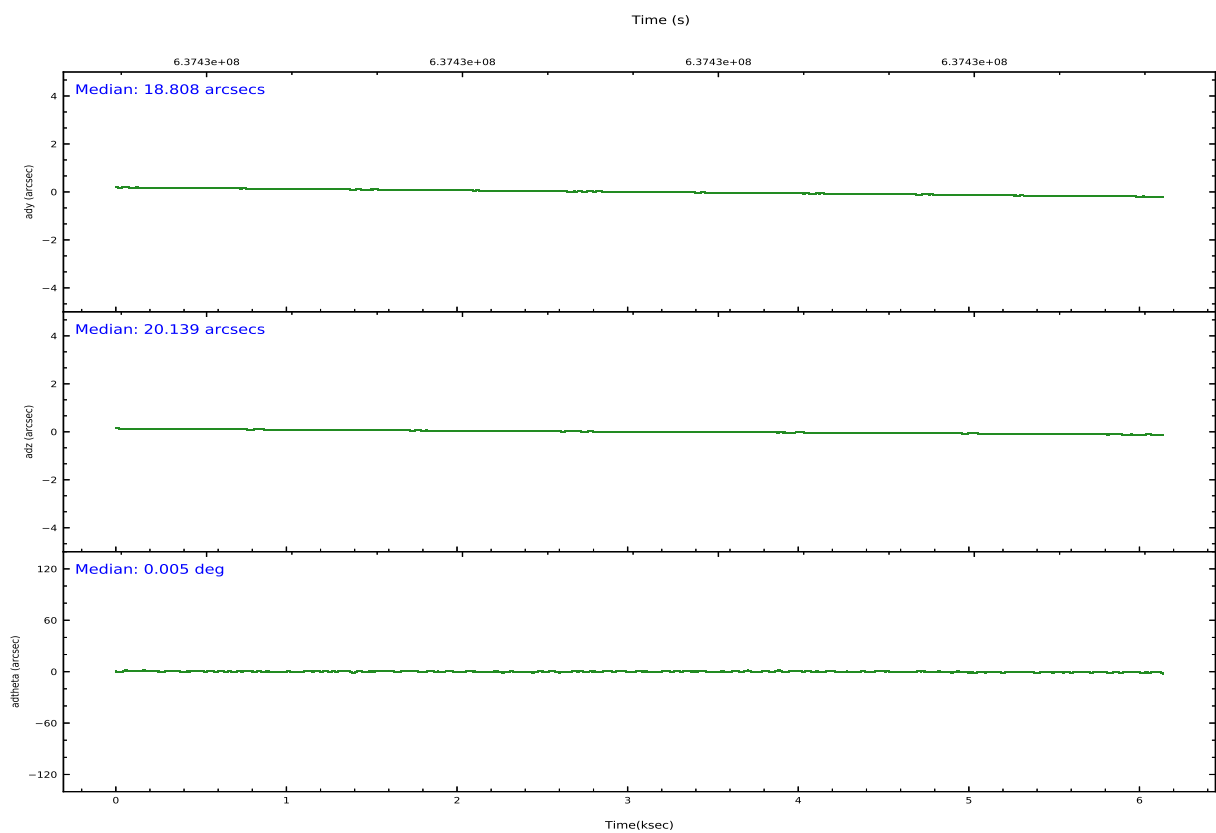
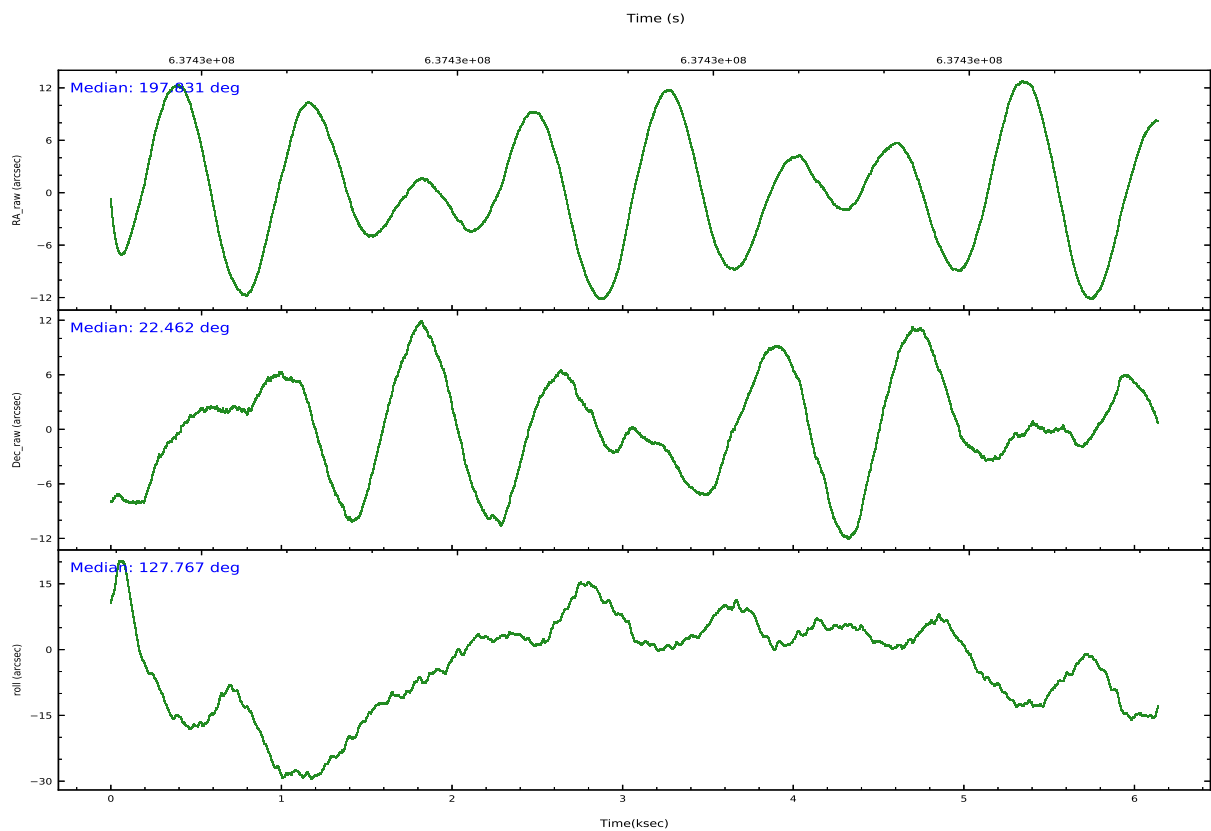
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1601	1612	1500	2138
	3%	3%	3%	3%
grade 1 events	18	24	18	90
	0%	0%	0%	0%
grade 2 events	1087	1006	1265	5284
	2%	2%	2%	8%
grade 3 events	502	508	448	2060
	1%	1%	0%	3%
grade 4 events	491	536	456	2021
	1%	1%	0%	3%
grade 5 events	1734	2021	1922	5824
	3%	4%	3%	9%
grade 6 events	969	1027	1379	14071
	2%	2%	2%	23%
grade 7 events	39391	40319	42779	27821
	86%	85%	85%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	197.859011	197.83988101929	CCD I2 on	O1	Y
[deg] Pointing Dec	22.451537	22.460840700641	CCD I3 on	O3	Y
[deg] Pointing Roll	127.608880	127.7657809641	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	637425606.184000	637424068.47142	CCD S5 on	N	N
Observation start date	2018-03-14T14:38:57	2018-03-14T14:14:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	637431606.184000	637432260.27191	On-chip summing requested	N	N
Observation end date	2018-03-14T16:18:57	2018-03-14T16:31:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



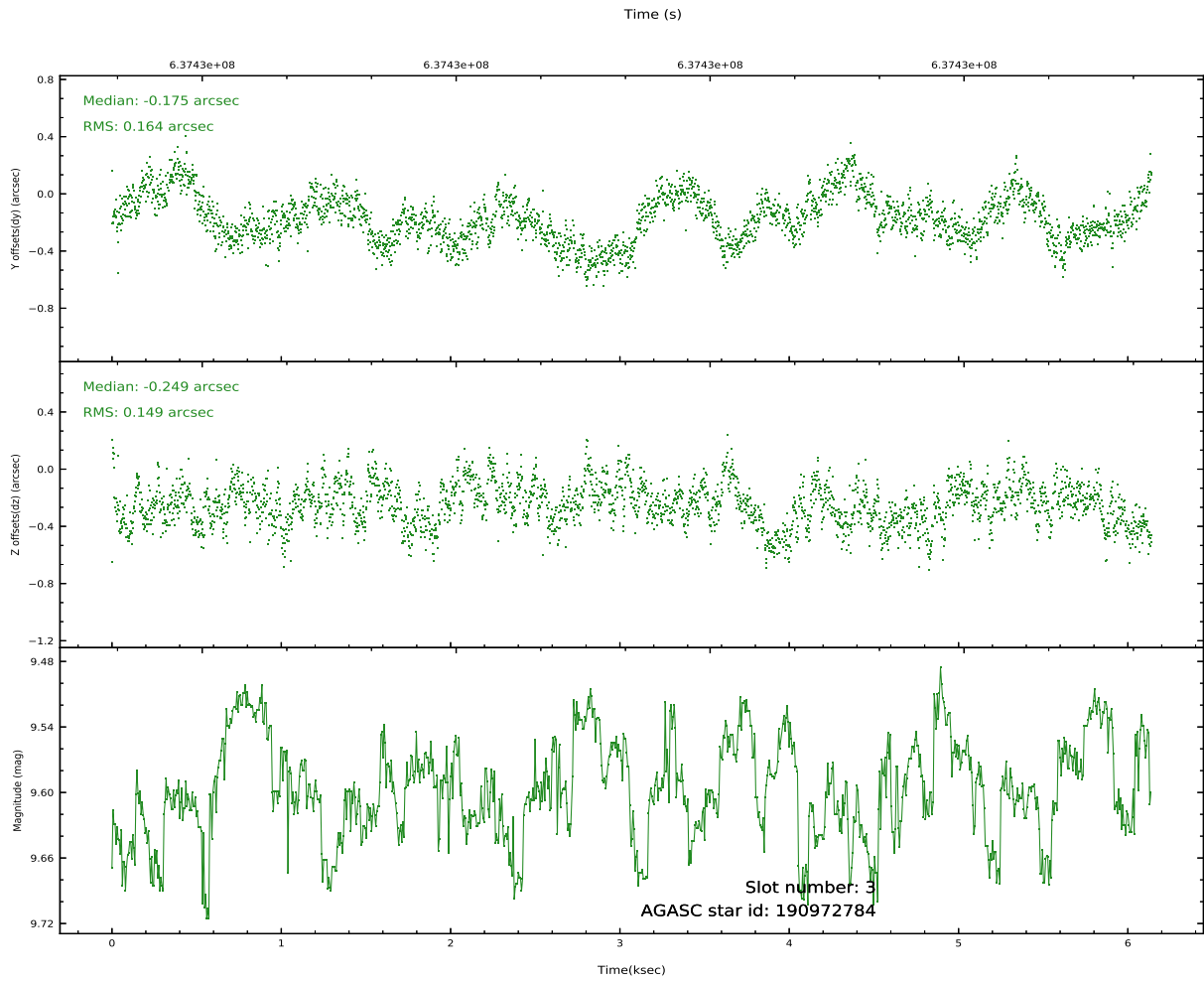
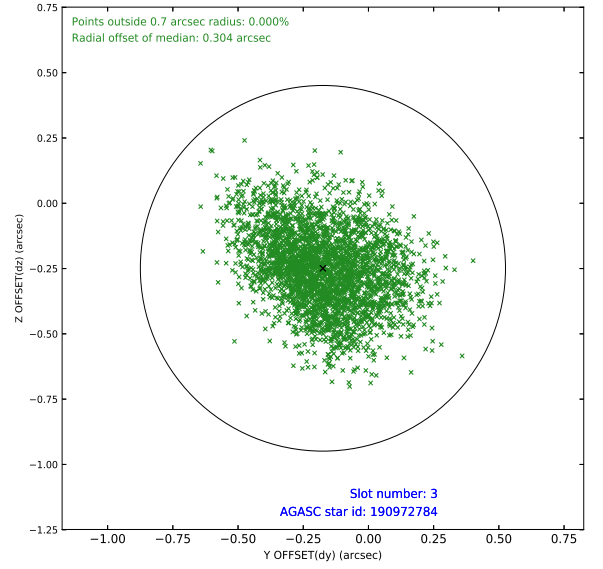
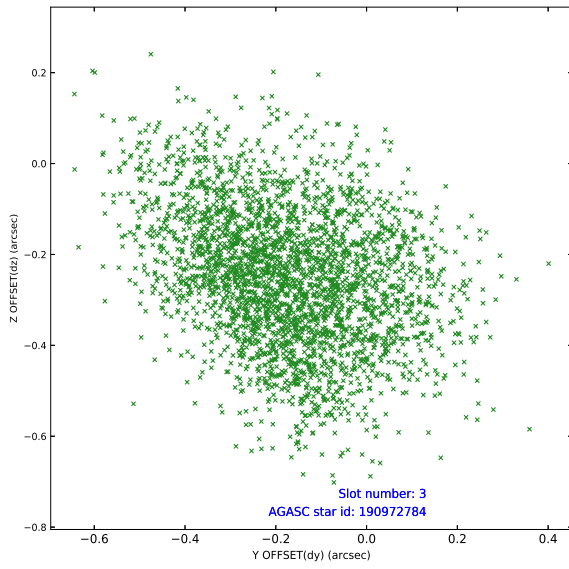


Slot Statistics

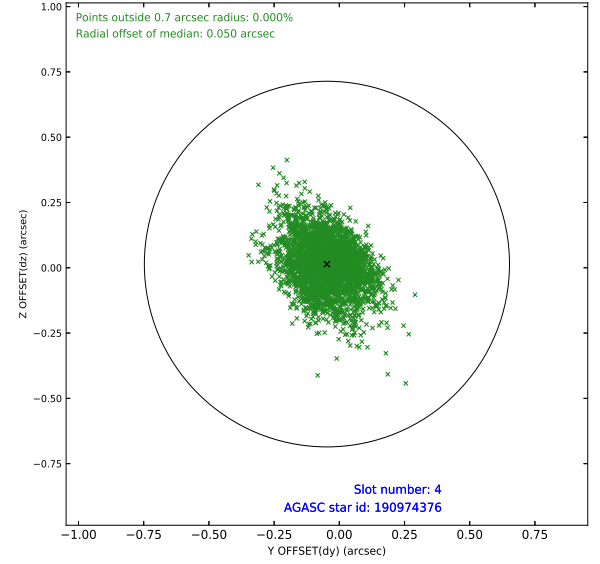
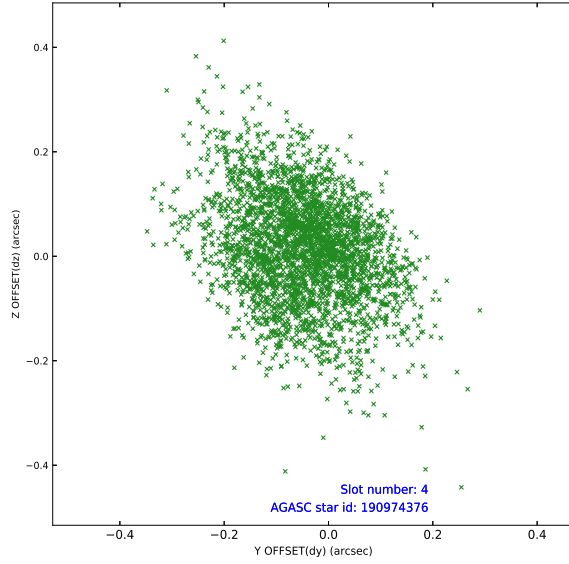
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.25	1498	1.000	0.222	0.013	0.007	0.013	0.000000	0.000000	2141.71	166
1	FID		ACIS-S-5	7.24	1498	1.000	-0.213	0.020	0.007	0.012	0.000000	0.000000	-1823.68	160
2	FID		ACIS-S-6	7.40	1497	1.000	-0.038	-0.019	0.007	0.012	0.000000	0.000000	388.77	804
3	GUIDE	used	190972784	9.60	2979	1.000	-0.175	-0.249	0.238	0.382	197.351360	22.226147	390.45	1833
4	GUIDE	used	190974376	6.77	2996	1.000	-0.048	0.014	0.143	0.240	197.884749	21.918670	-1572.05	1103
5	GUIDE	used	190974464	9.78	2993	1.000	0.265	0.049	0.293	0.529	197.881047	22.176539	-829.81	546
6	GUIDE	used	261371840	9.95	2985	1.000	-0.287	0.062	0.276	0.466	198.087139	22.845843	662.89	-1465
7	GUIDE	used	261373192	9.55	2984	1.000	0.282	0.149	0.249	0.389	198.392023	22.526629	-864.02	-1570

2.4 Star Slots

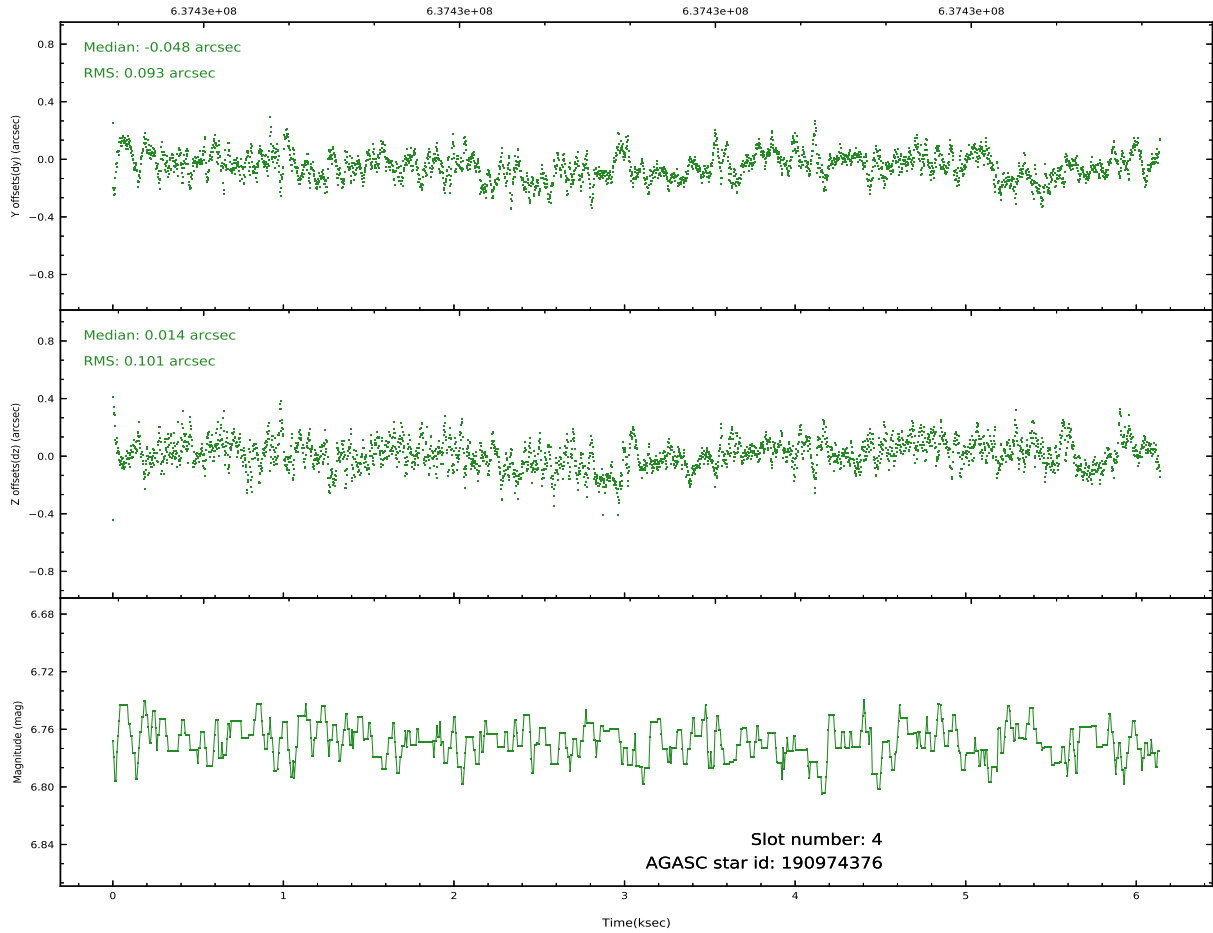
2.4.1 Slot 3



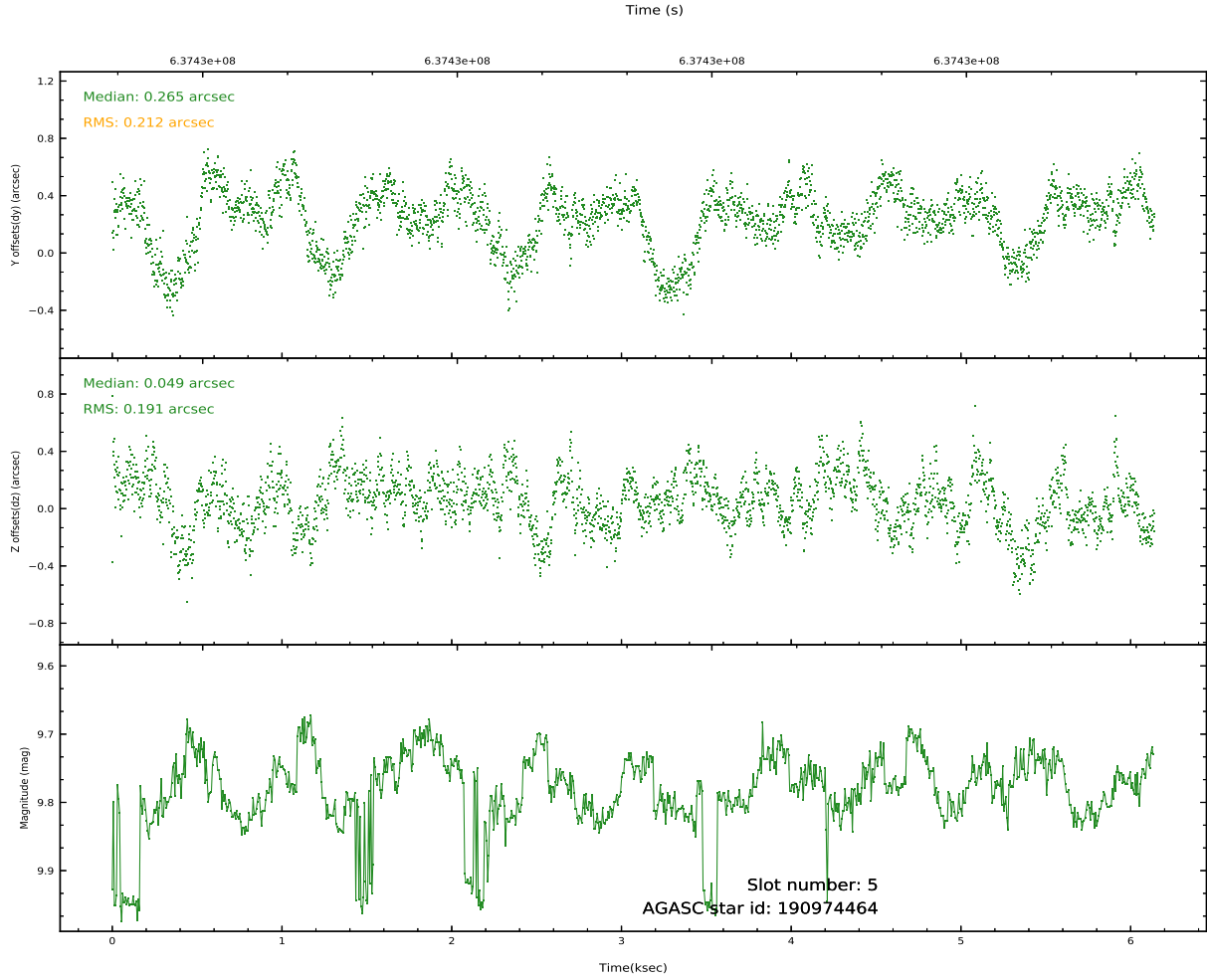
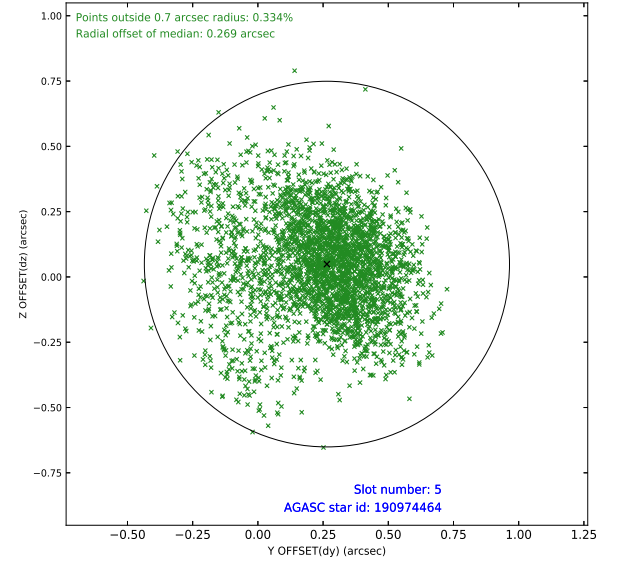
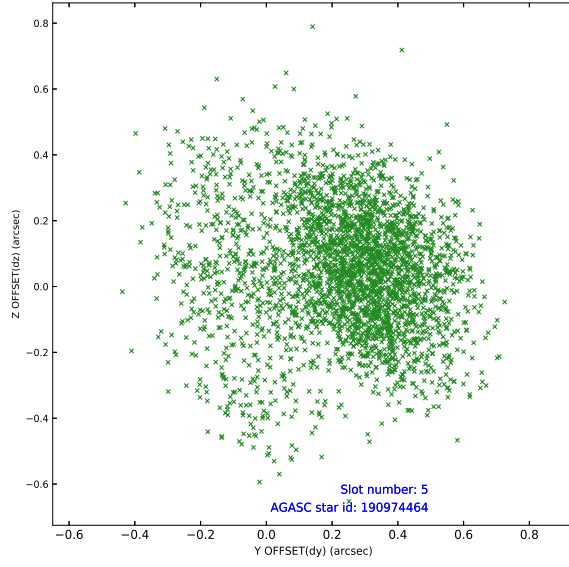
2.4.2 Slot 4



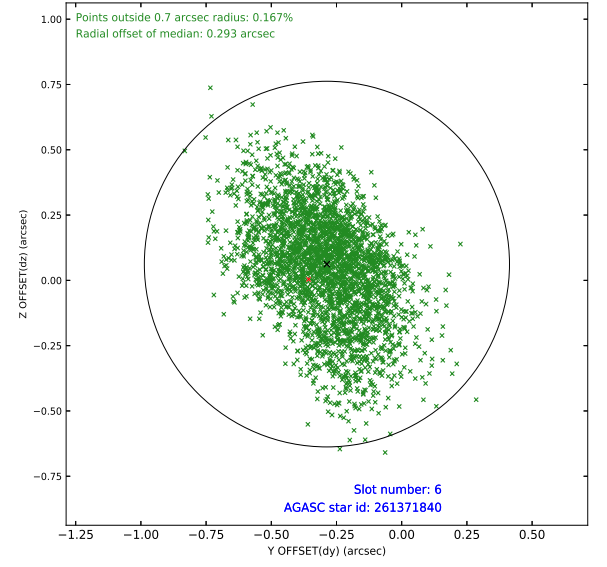
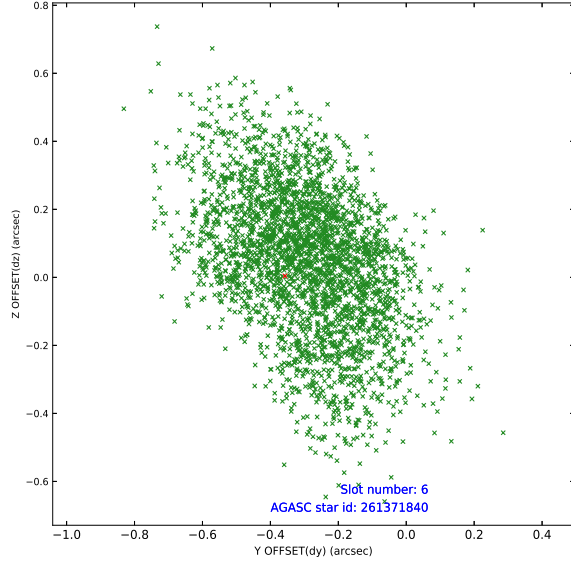
Time (s)



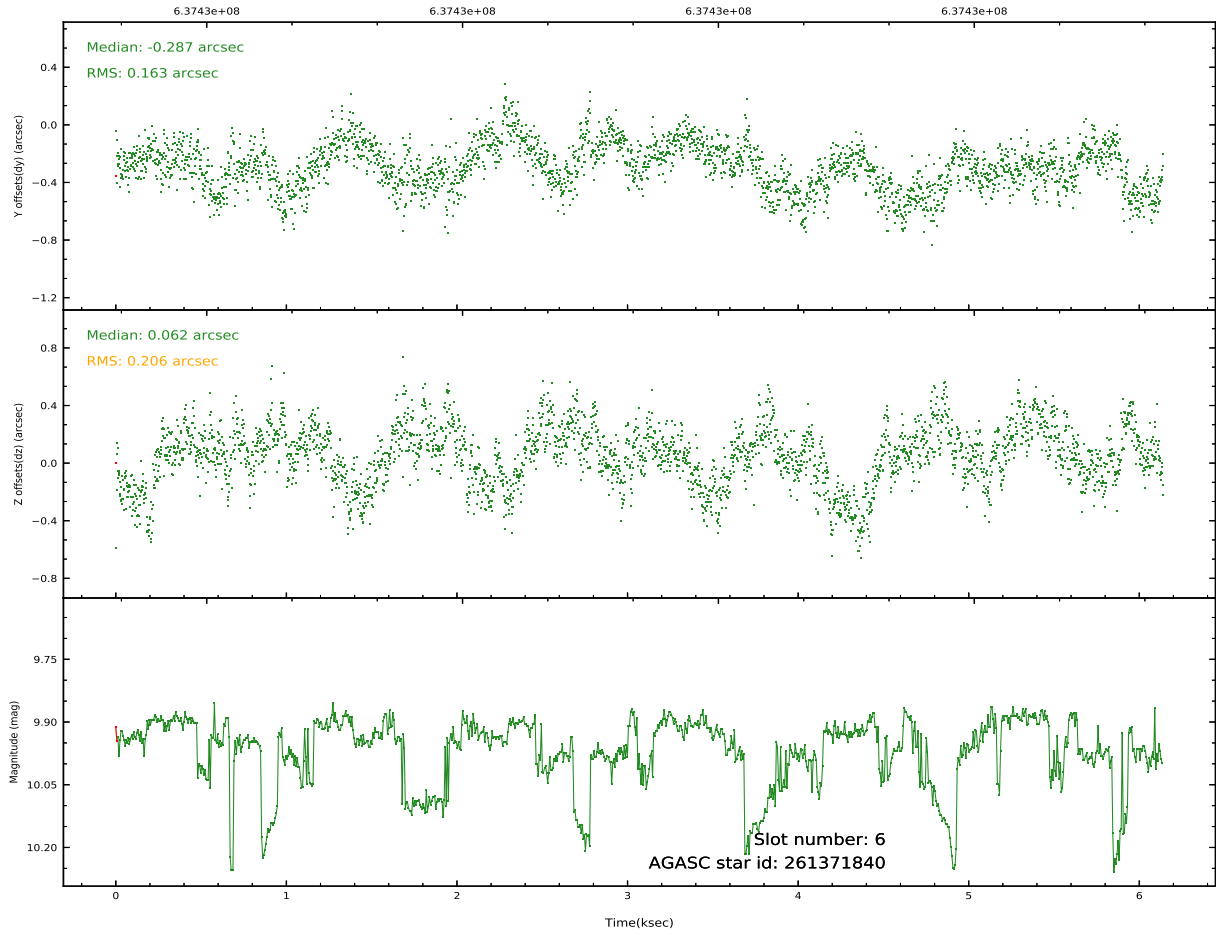
2.4.3 Slot 5



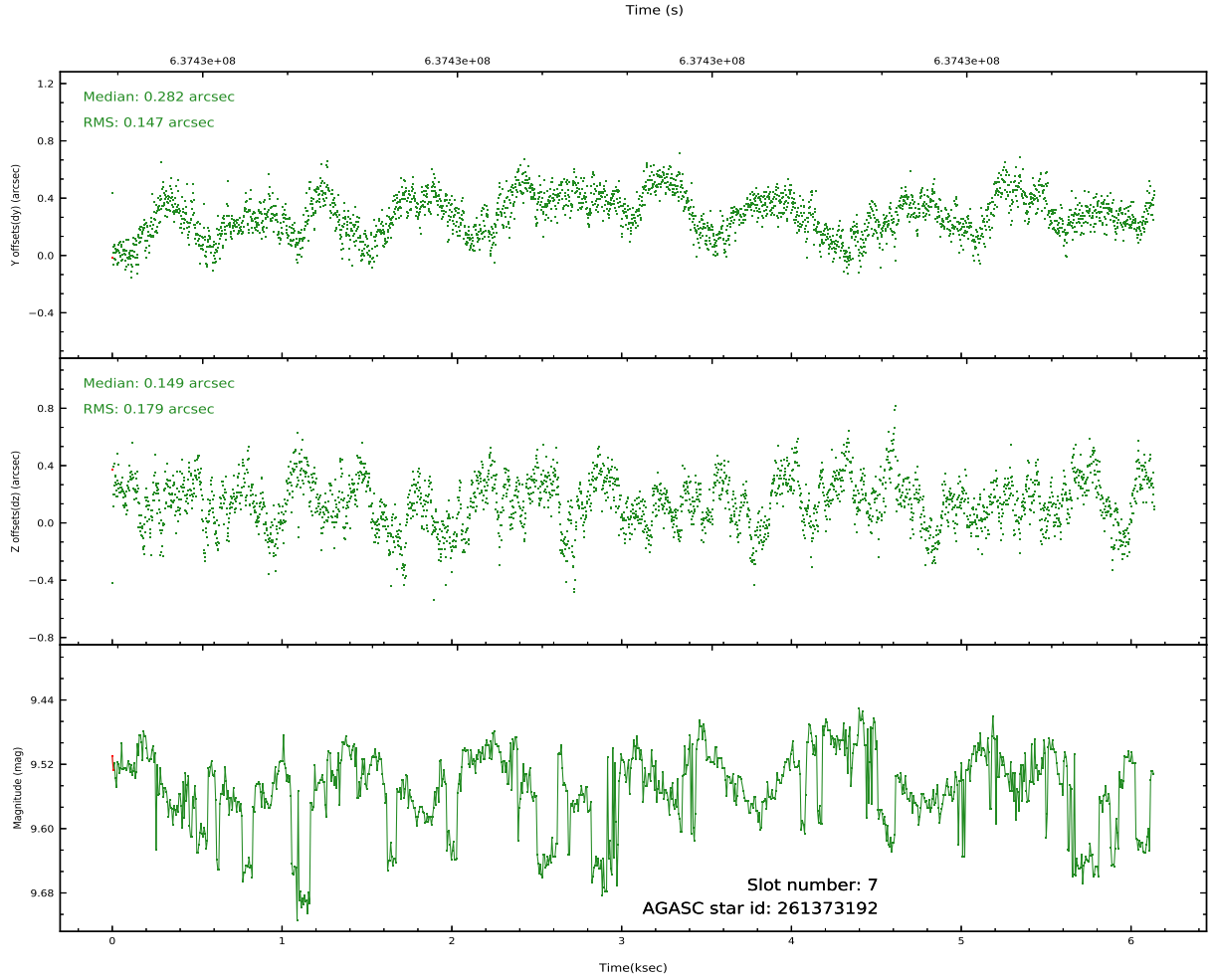
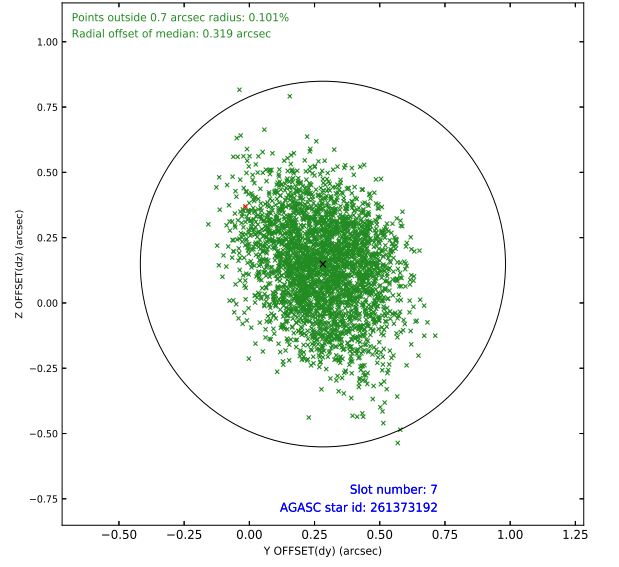
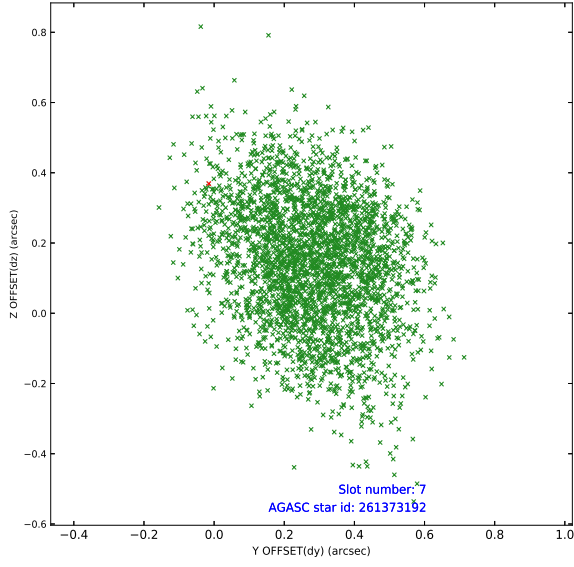
2.4.4 Slot 6



Time (s)

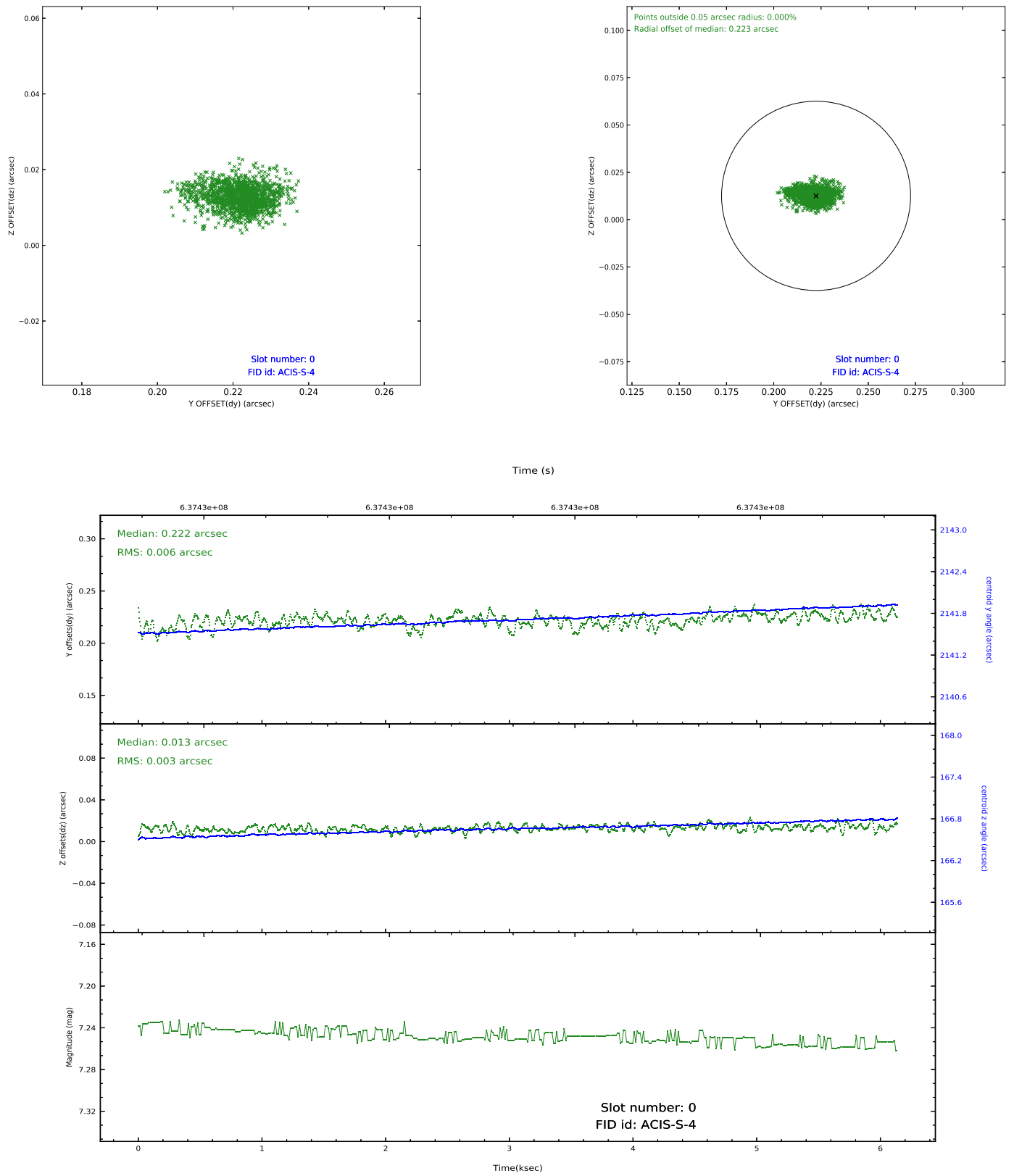


2.4.5 Slot 7

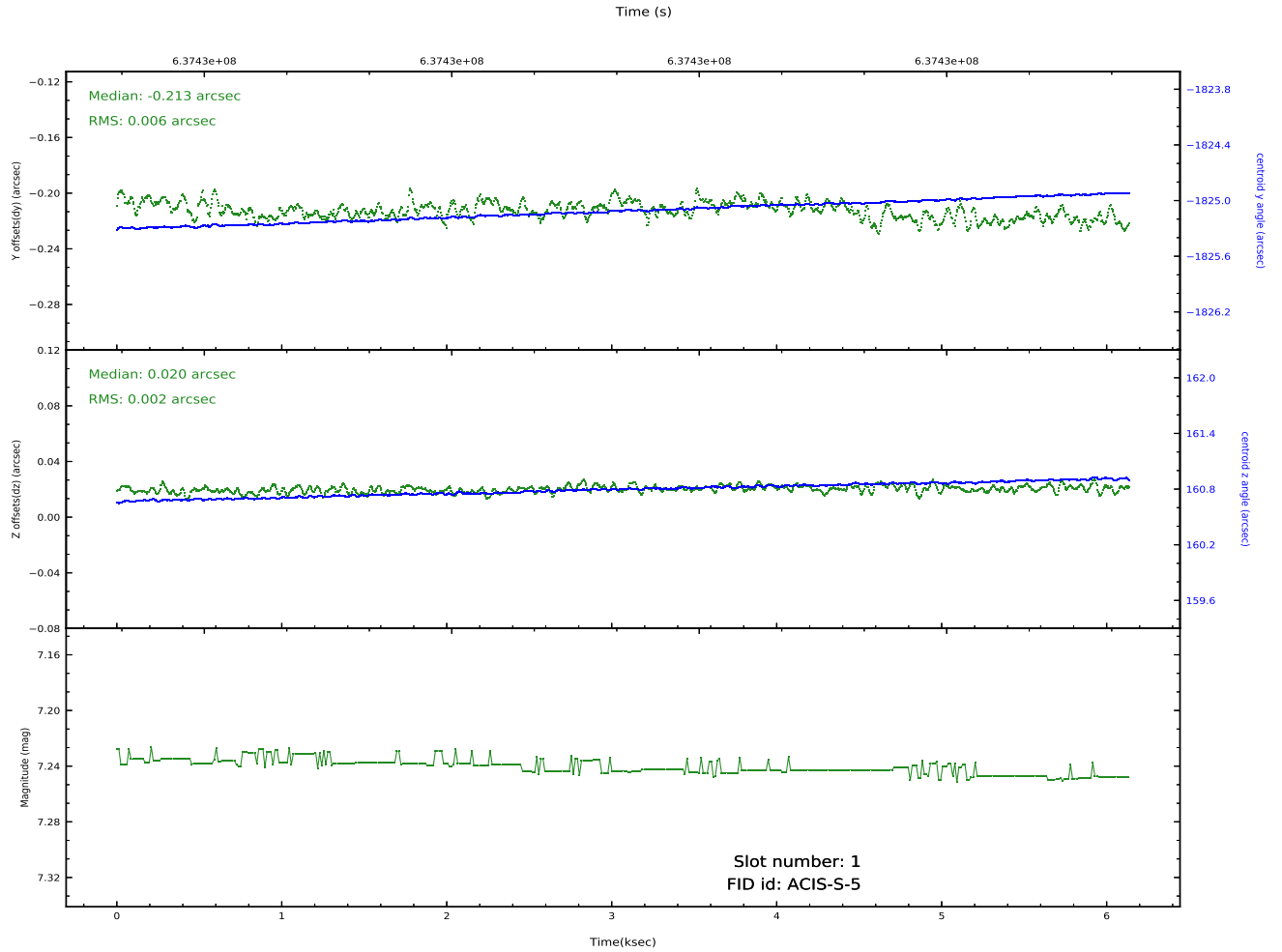
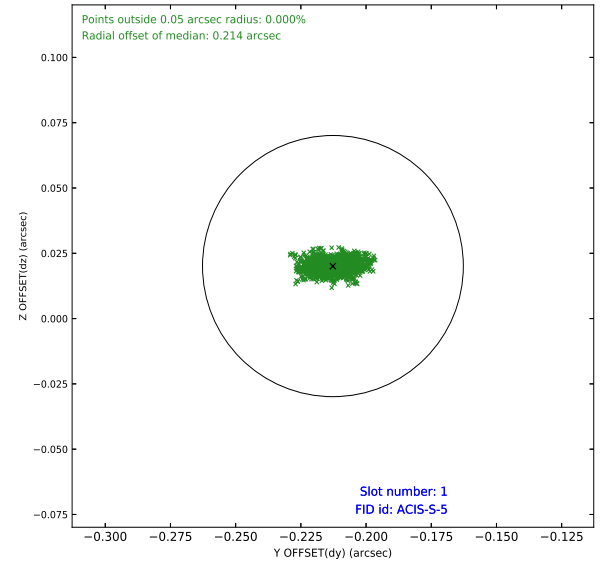
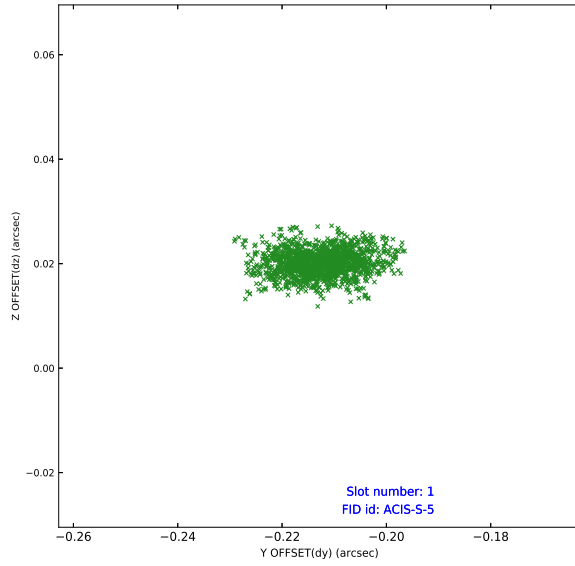


2.5 FID Slots

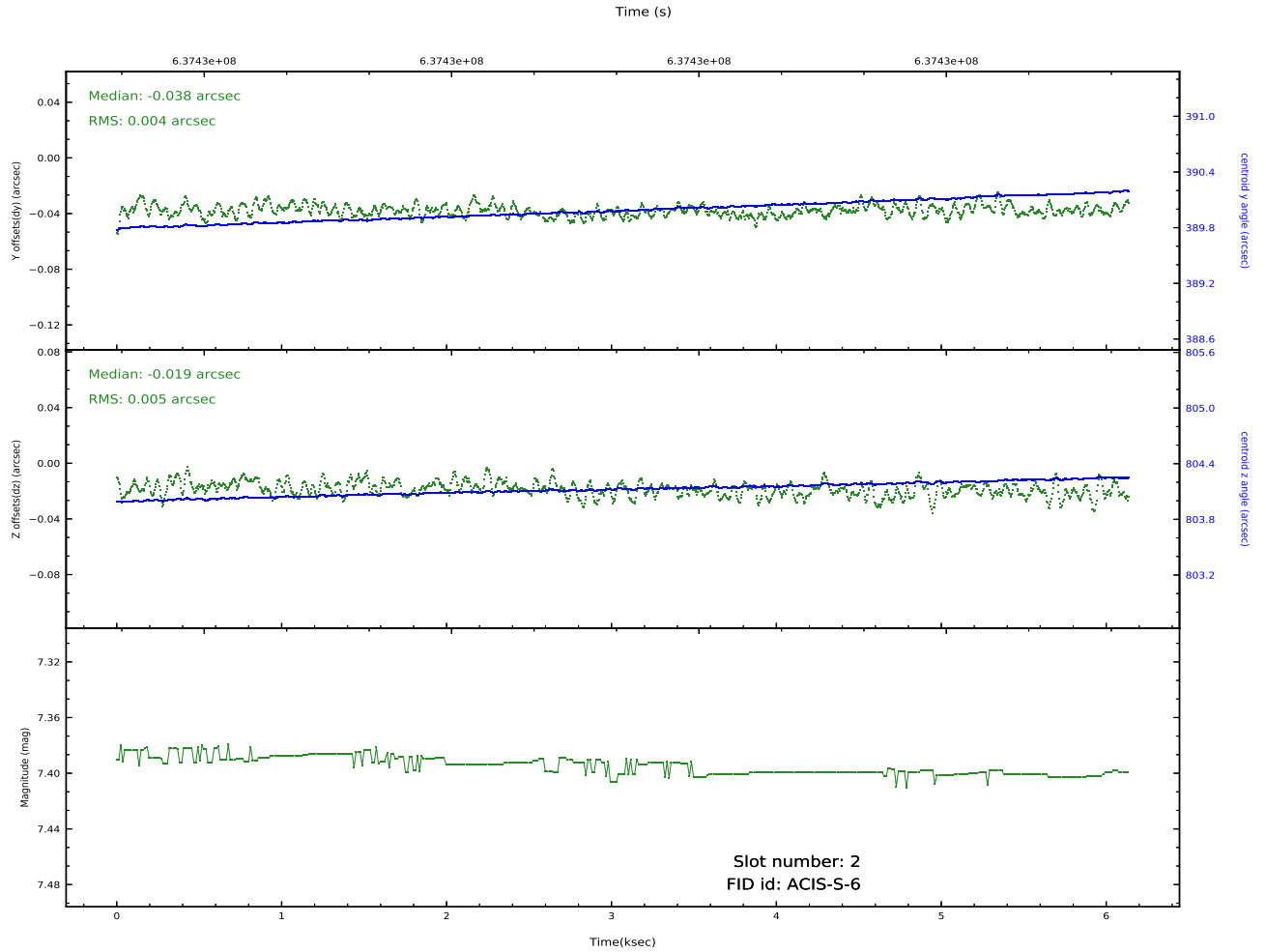
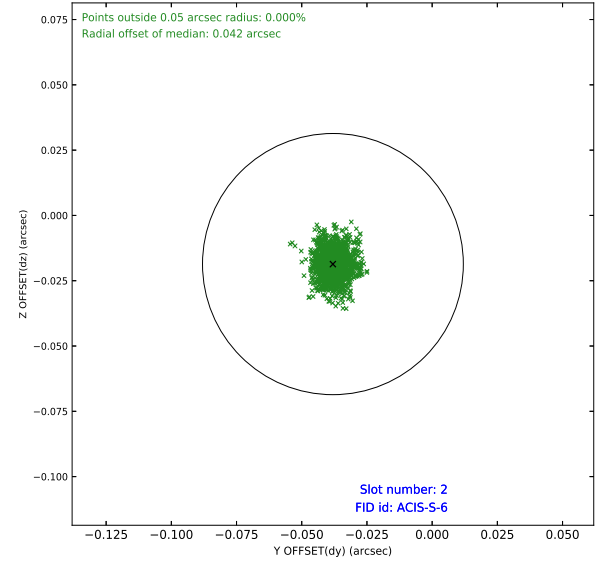
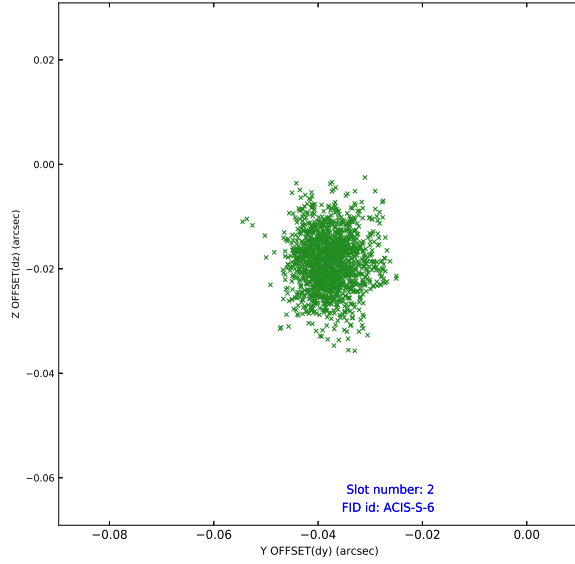
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0654714361429

A.2 Comments