

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20387 - L2 Version 2
Chandra X-Ray Center

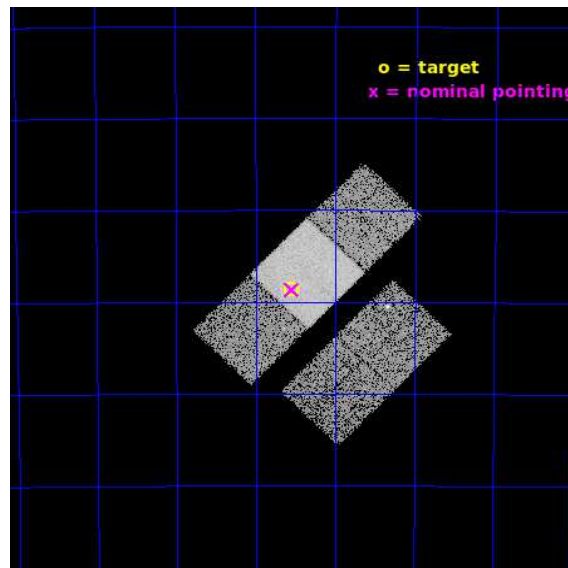
L2 Processing Date : Oct 27 2020

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

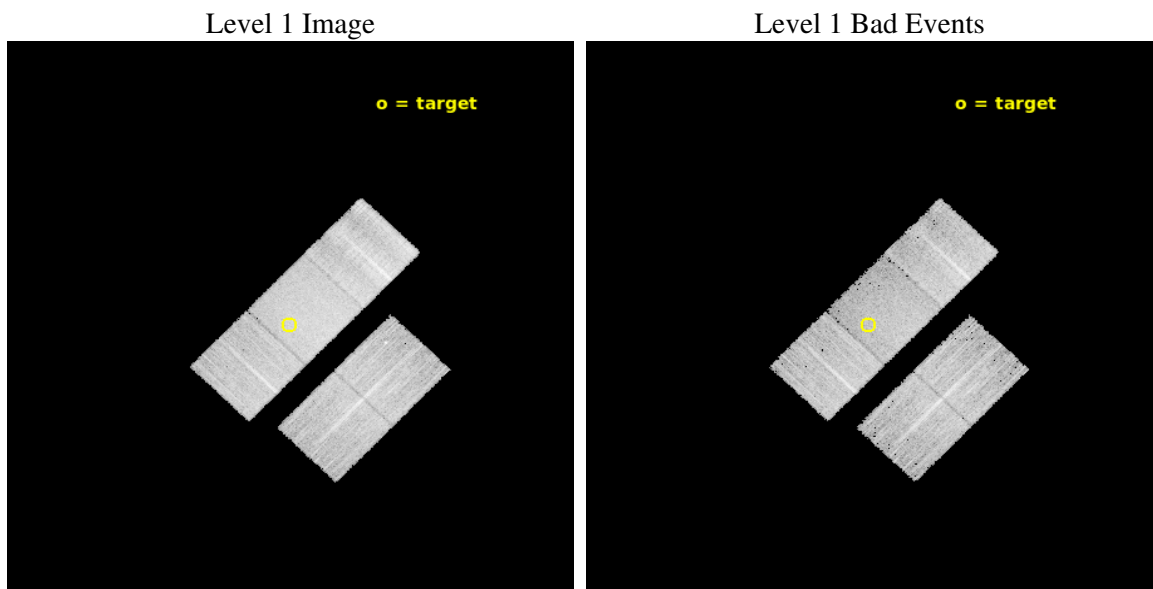
seq_num	703492	Sequence number
obs_id	20387	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2220-5618	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	335.14	Observer's specified target RA [deg]
dec_targ	-56.310694	Observer's specified target Dec [deg]
ra_nom	335.13624091529	Nominal RA [deg]
dec_nom	-56.311174875404	Nominal Dec [deg]
roll_nom	314.16298867598	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9055.1000697613	Sum of GTIs [s]
livetime	8936.7885210822	Livetime [s]
ontime2	9055.1000697613	Sum of GTIs [s]
ontime3	9055.1000697613	Sum of GTIs [s]
ontime6	9055.1000697613	Sum of GTIs [s]
ontime7	9055.1000697613	Sum of GTIs [s]
ontime8	9055.1000697613	Sum of GTIs [s]
l2events	64945	Number of level 2 events



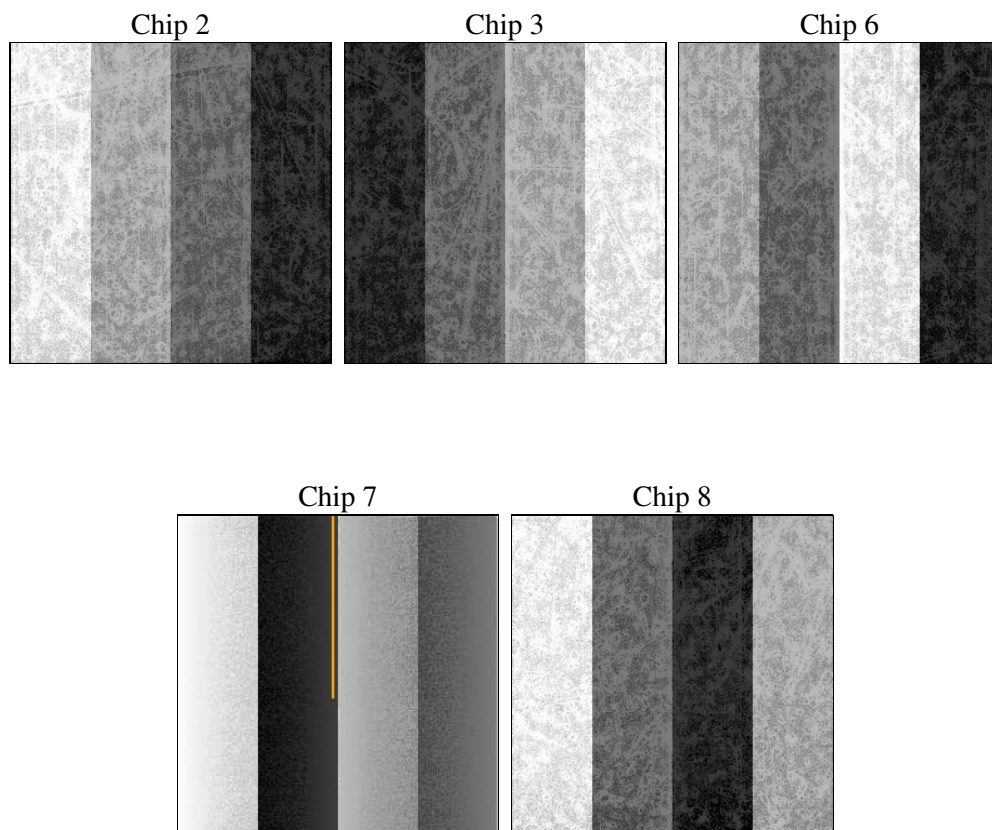
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9055.1000697613	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9055.1000697613	Sum of GTIs [s]
date	2020-10-27T21:10:55	Date and time of file creation	ontime3	9055.1000697613	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9055.1000697613	Sum of GTIs [s]
			ontime7	9055.1000697613	Sum of GTIs [s]
			ontime8	9055.1000697613	Sum of GTIs [s]
			l1events	383882	Number of level 1 events

2.1.4 Events

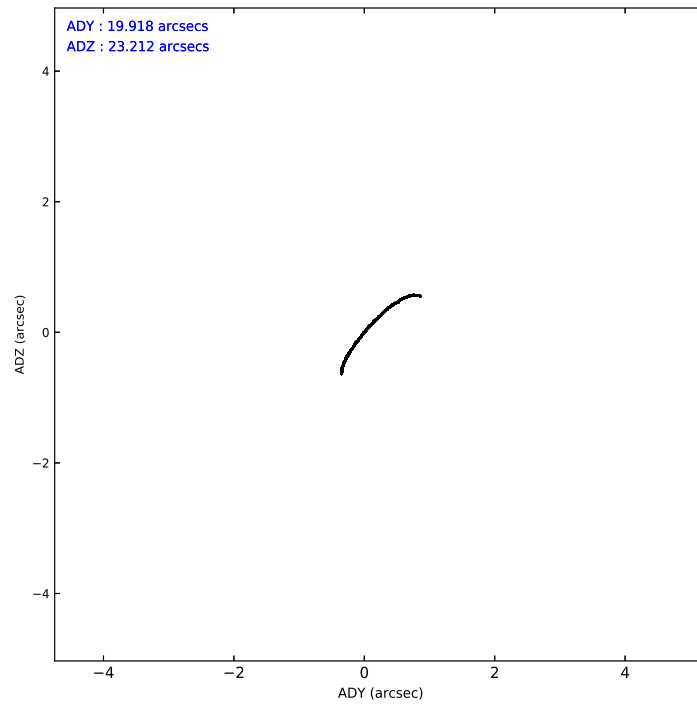
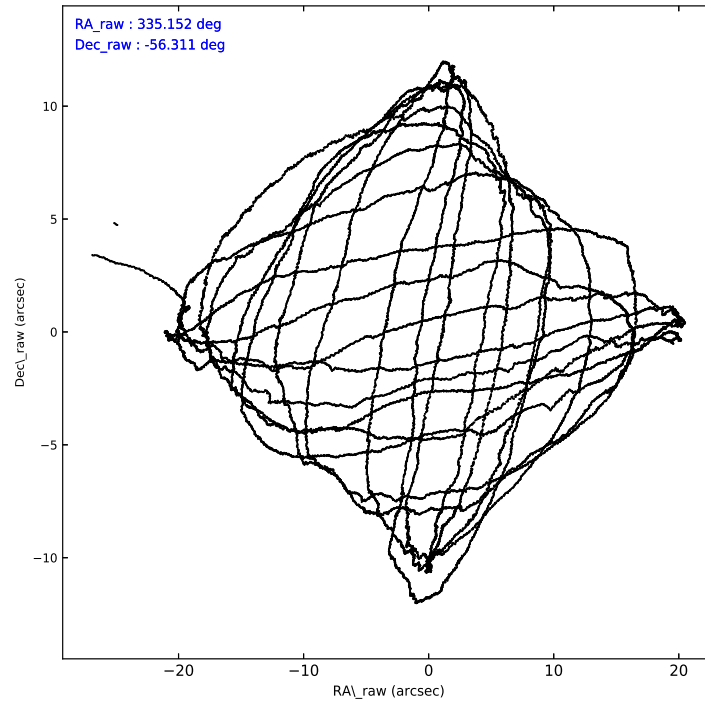
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	64507	67175	70702	88418	93080
rejected events	57196	59678	62824	50107	66910
rejected %	88%	88%	88%	56%	71%

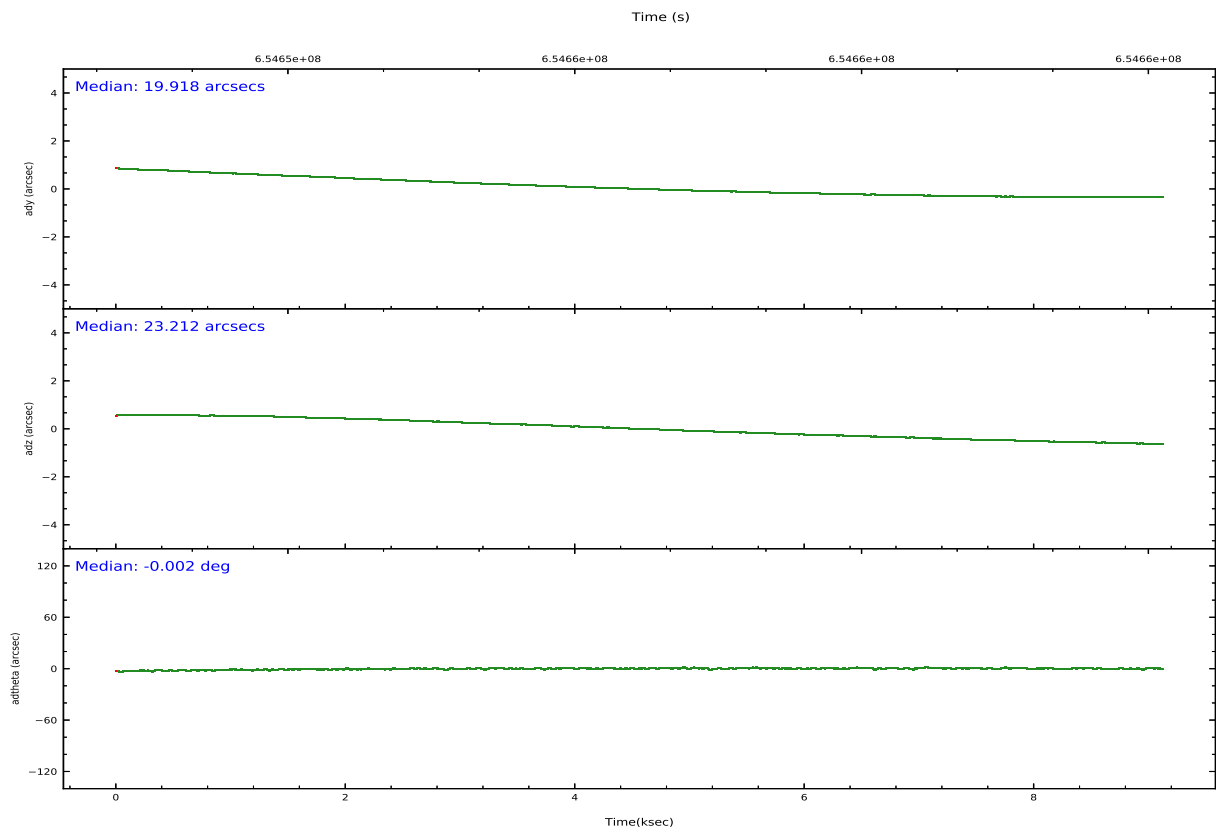
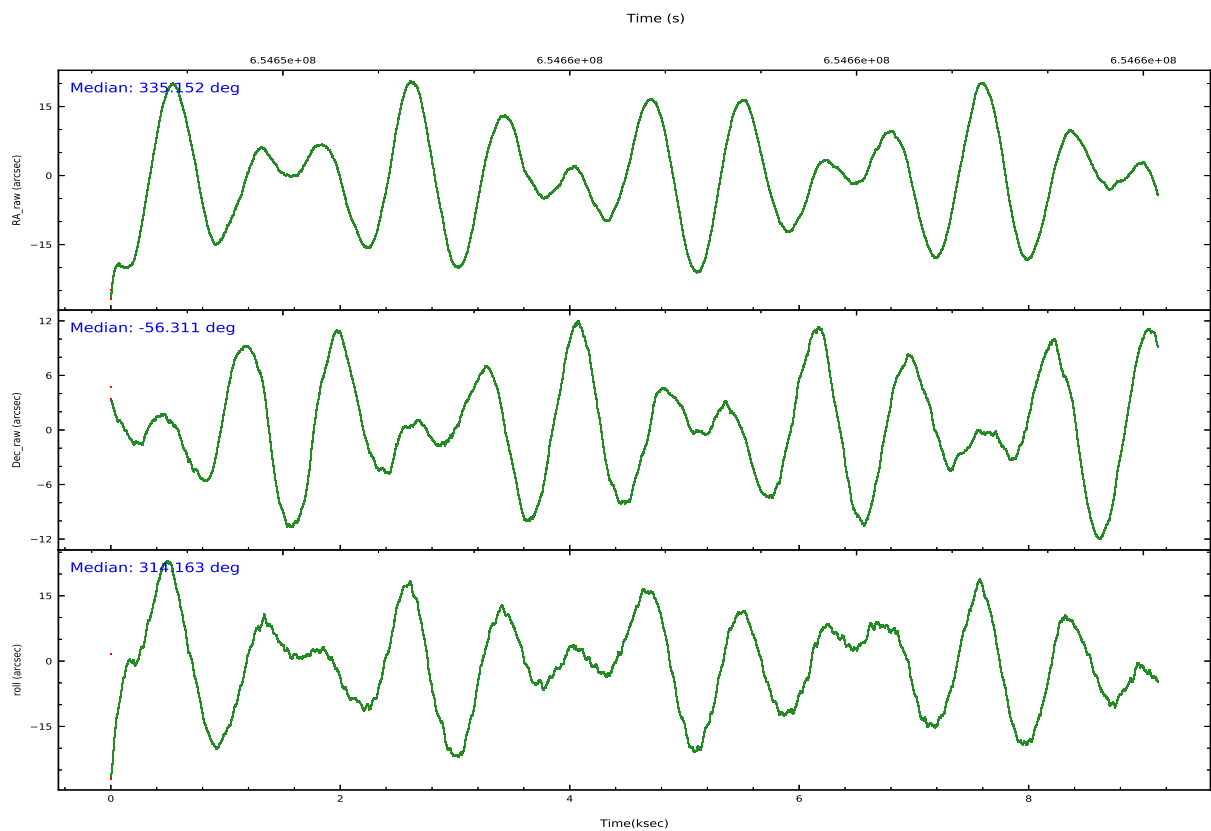
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2520	2811	2582	3228	7359
	3%	4%	3%	3%	7%
grade 1 events	43	50	41	131	76
	0%	0%	0%	0%	0%
grade 2 events	1850	1646	1930	8321	6589
	2%	2%	2%	9%	7%
grade 3 events	767	776	758	3070	2575
	1%	1%	1%	3%	2%
grade 4 events	759	738	821	3044	2383
	1%	1%	1%	3%	2%
grade 5 events	2640	3180	3206	9042	4878
	4%	4%	4%	10%	5%
grade 6 events	1422	1529	1793	20665	7274
	2%	2%	2%	23%	7%
grade 7 events	54506	56445	59571	40917	61946
	84%	84%	84%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	335.104397	335.13624091529	CCD I2 on	O1	Y
[deg] Pointing Dec	-56.303575	-56.311174875404	CCD I3 on	O2	Y
[deg] Pointing Roll	313.970385	314.16298867598	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	654651128.184000	654649793.09112	CCD S5 on	N	N
Observation start date	2018-09-29T23:30:59	2018-09-29T23:09:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	654660128.184000	654661583.66682	On-chip summing requested	N	N
Observation end date	2018-09-30T02:00:59	2018-09-30T02:26:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



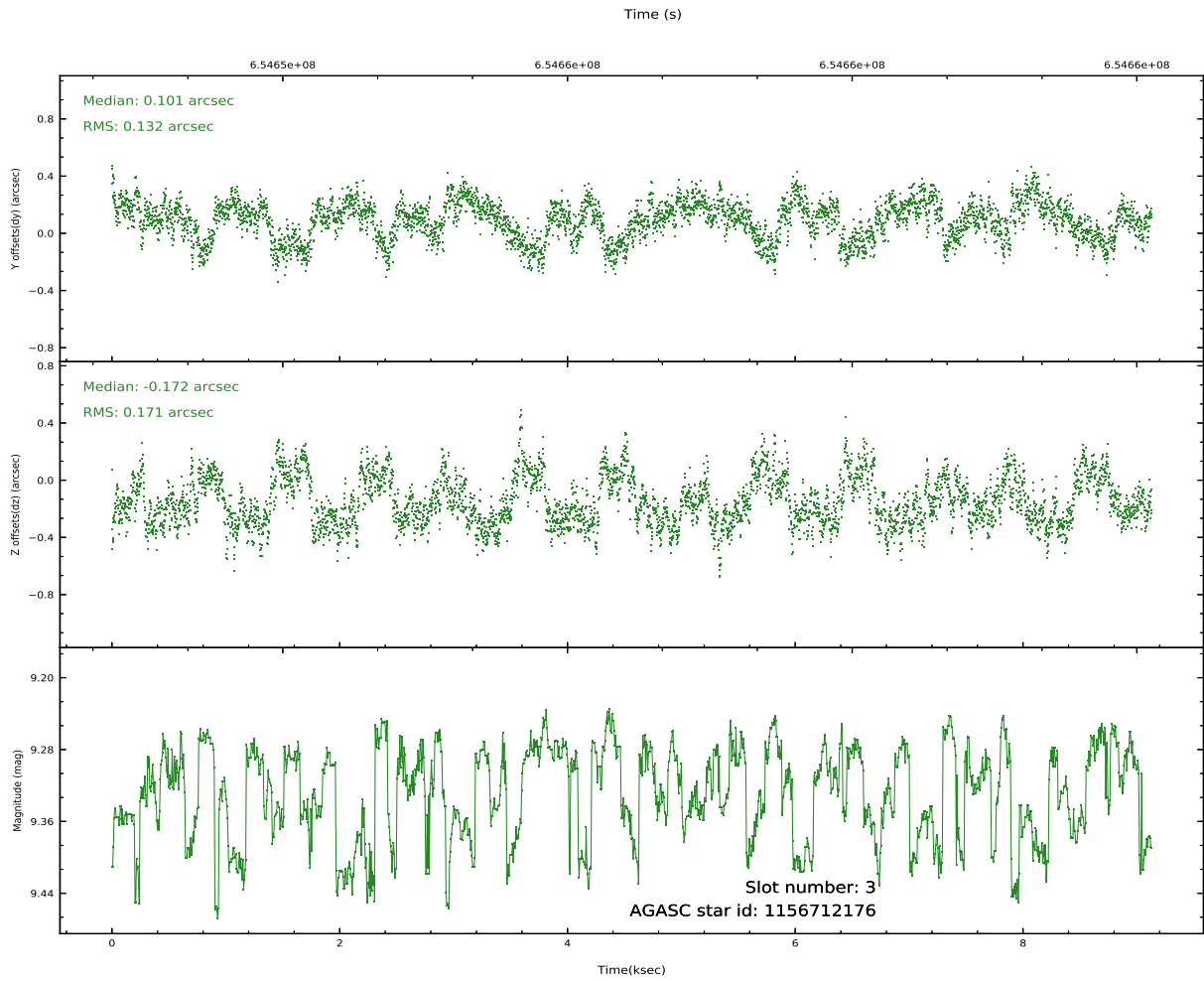
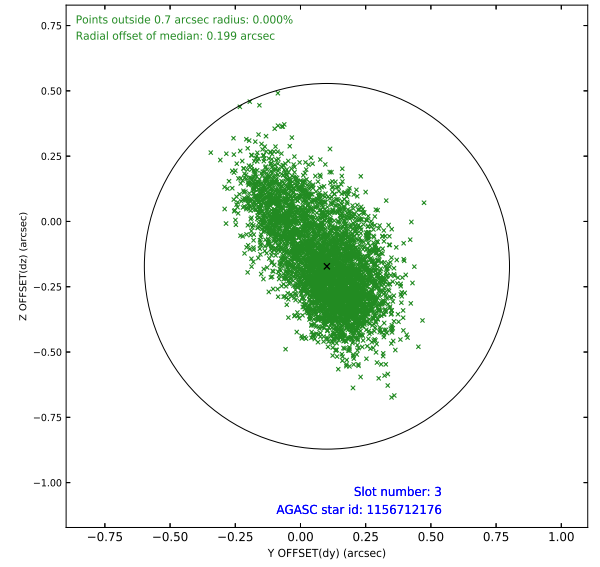
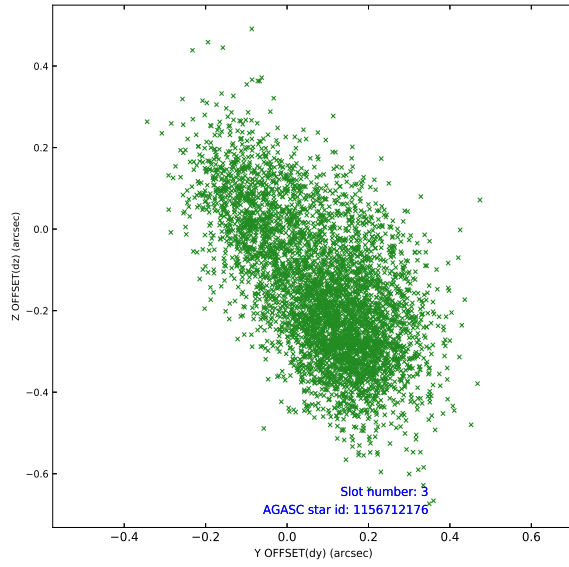


Slot Statistics

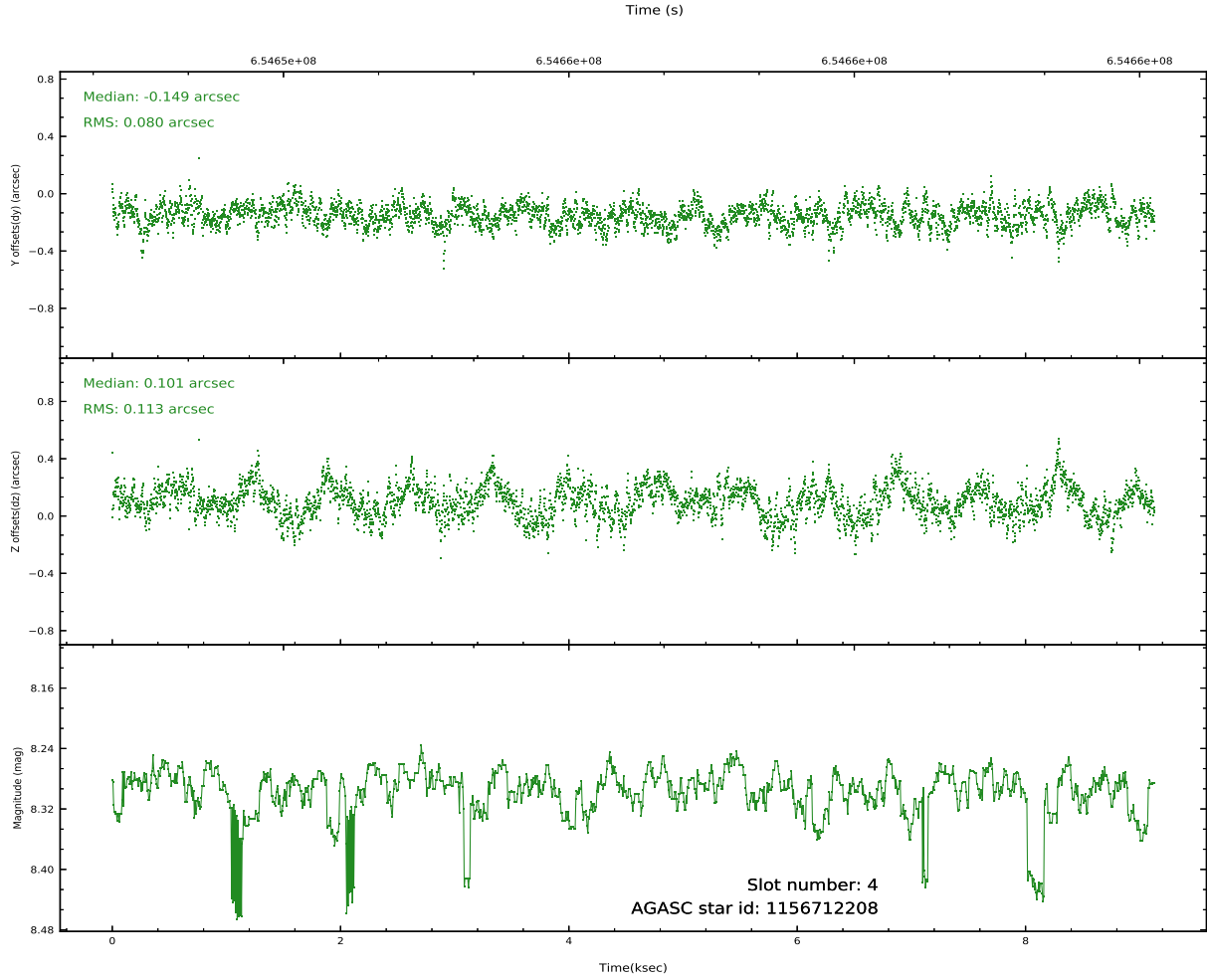
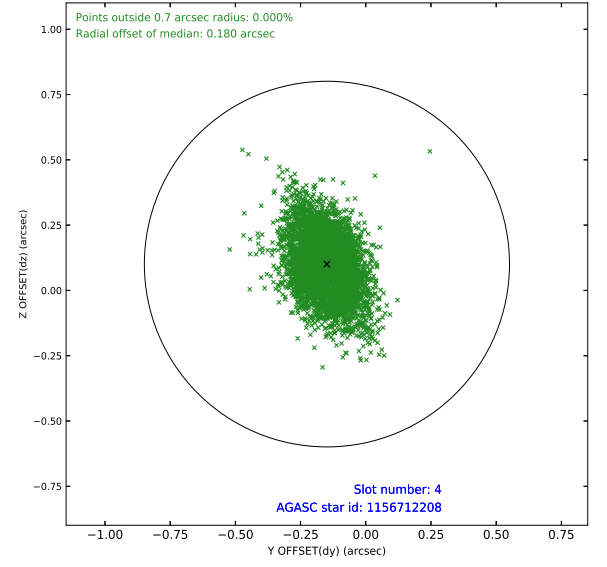
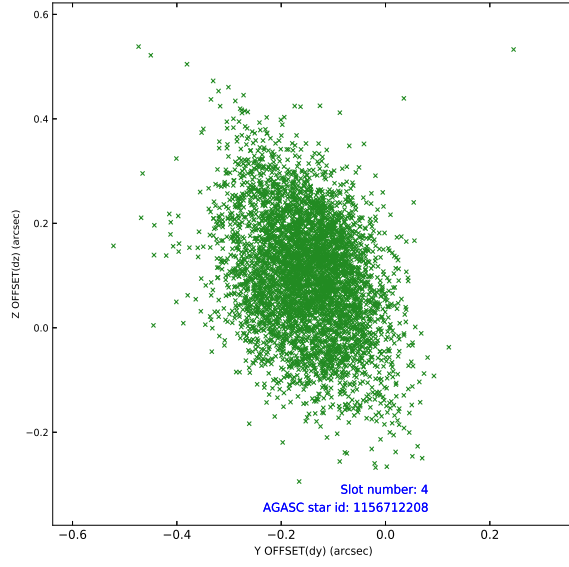
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	2226	1.000	0.081	0.059	0.011	0.022	0.000000	0.000000	922.90	-1740
1	FID		ACIS-S-4	7.11	2227	1.000	0.001	-0.141	0.007	0.011	0.000000	0.000000	2140.65	162
2	FID		ACIS-S-6	7.26	2227	1.000	-0.106	0.094	0.012	0.020	0.000000	0.000000	389.55	801
3	GUIDE	used	1156712176	9.33	4447	1.000	0.101	-0.172	0.223	0.392	335.916591	-56.276530	1064.39	1229
4	GUIDE	used	1156712208	8.29	4452	1.000	-0.149	0.101	0.144	0.248	334.527019	-55.777932	-2169.63	468
5	GUIDE	used	1156715128	9.21	4446	1.000	0.219	-0.088	0.235	0.378	335.182385	-56.980246	1859.90	-1580
6	GUIDE	used	1156712616	7.91	4452	1.000	-0.112	0.073	0.135	0.235	335.344882	-55.764617	-1056.55	1698
7	GUIDE	used	1156724032	8.83	4451	1.000	-0.040	0.073	0.163	0.281	336.195804	-56.004223	762.78	2317

2.4 Star Slots

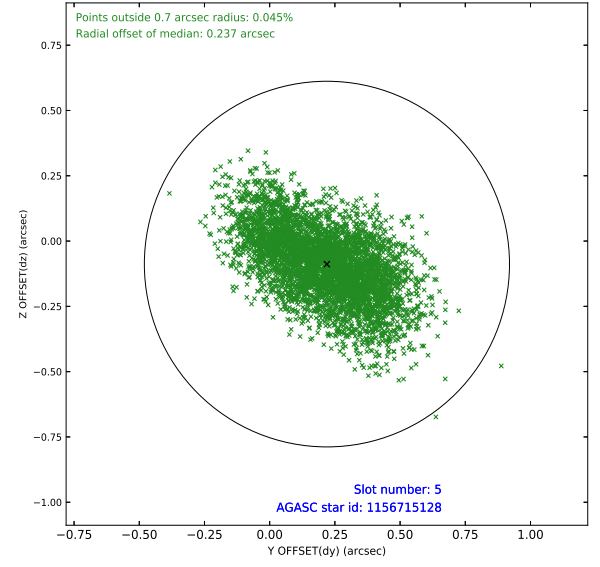
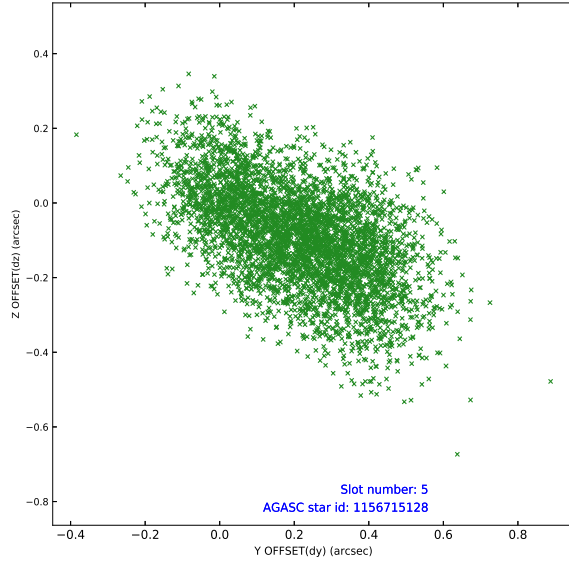
2.4.1 Slot 3



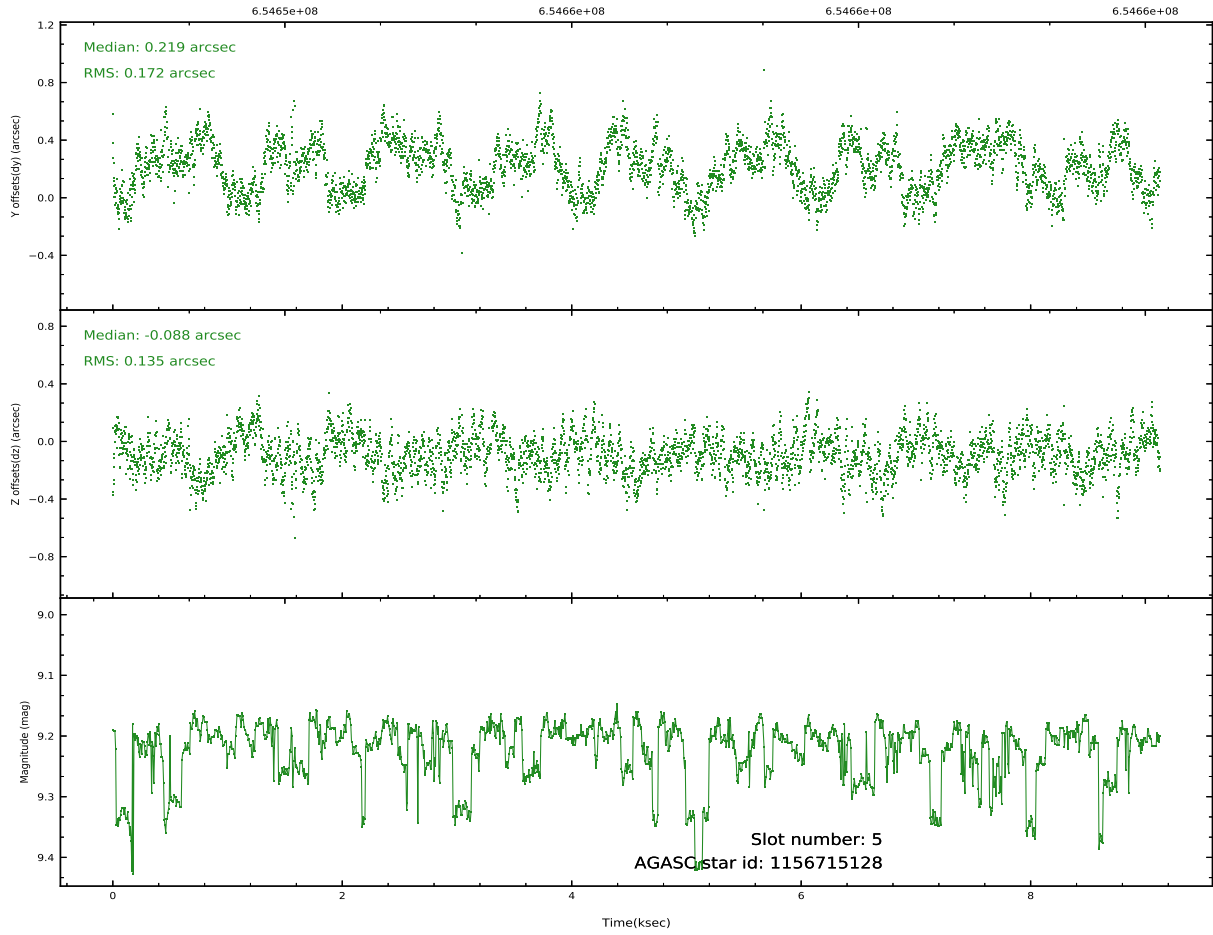
2.4.2 Slot 4



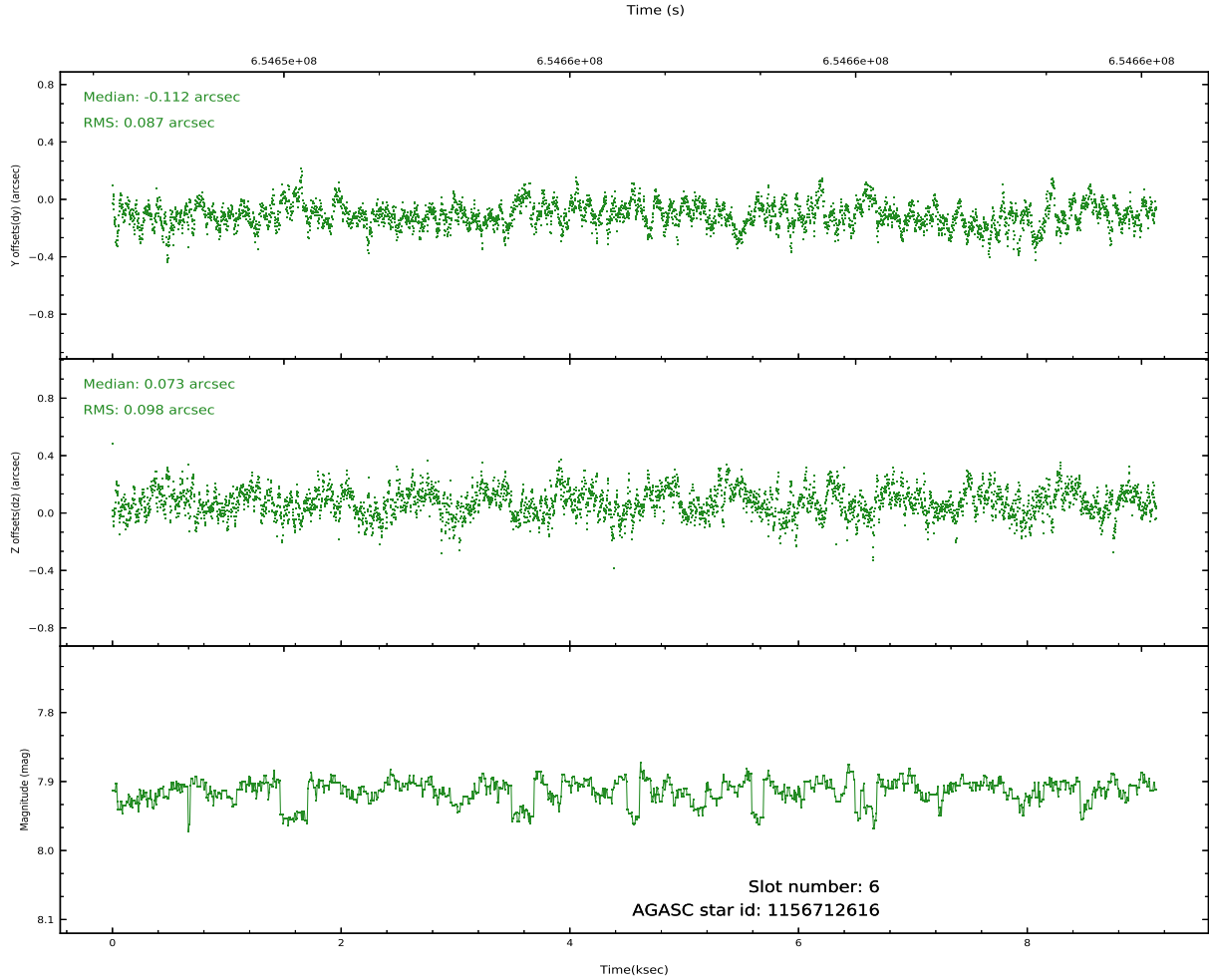
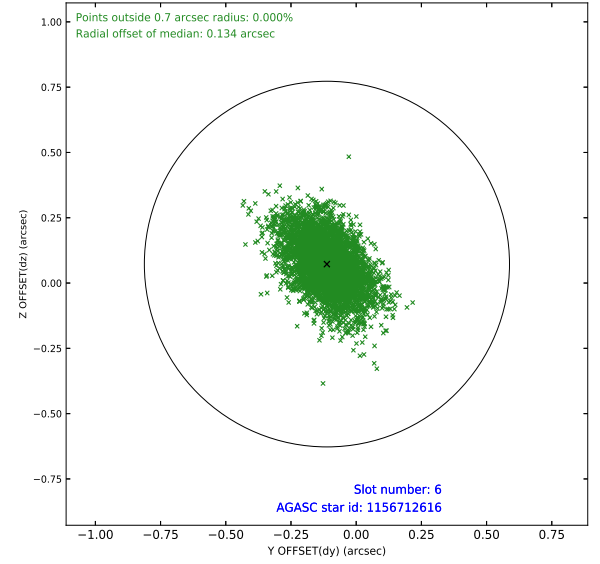
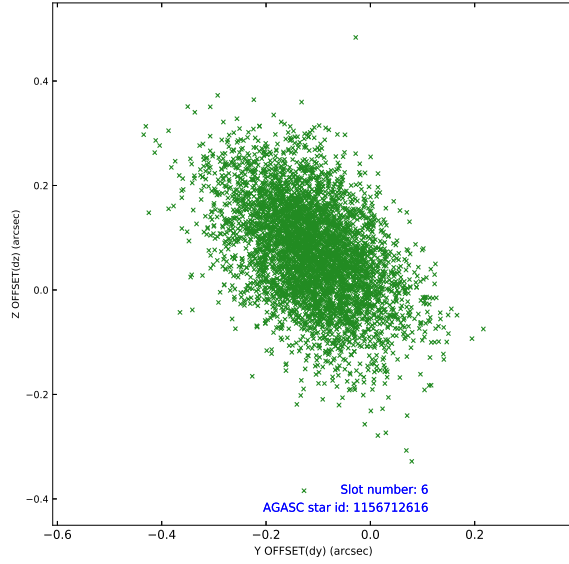
2.4.3 Slot 5



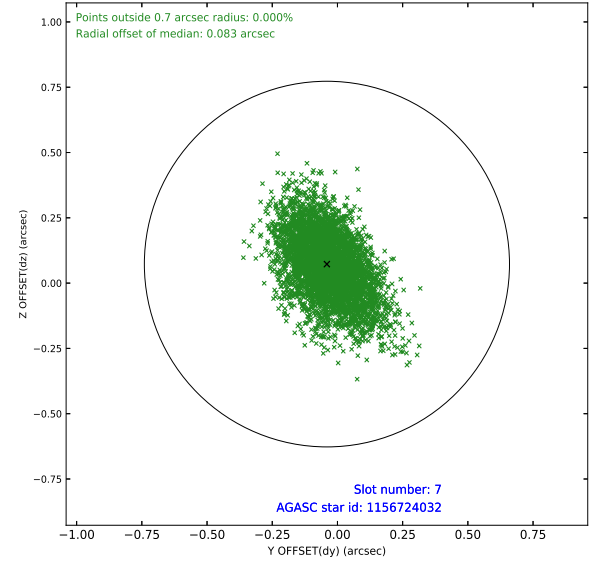
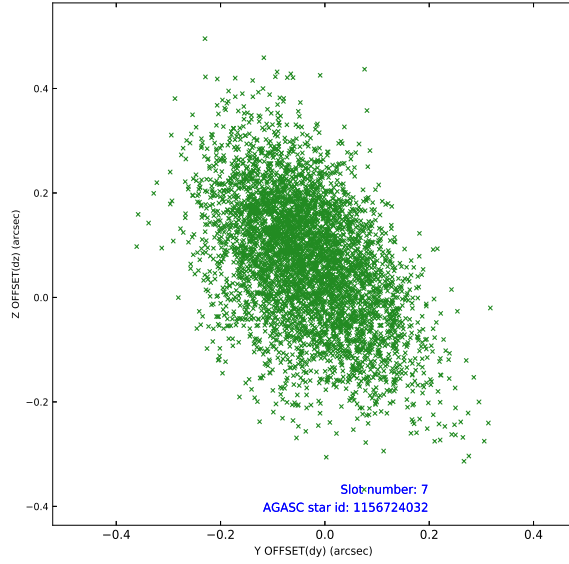
Time (s)



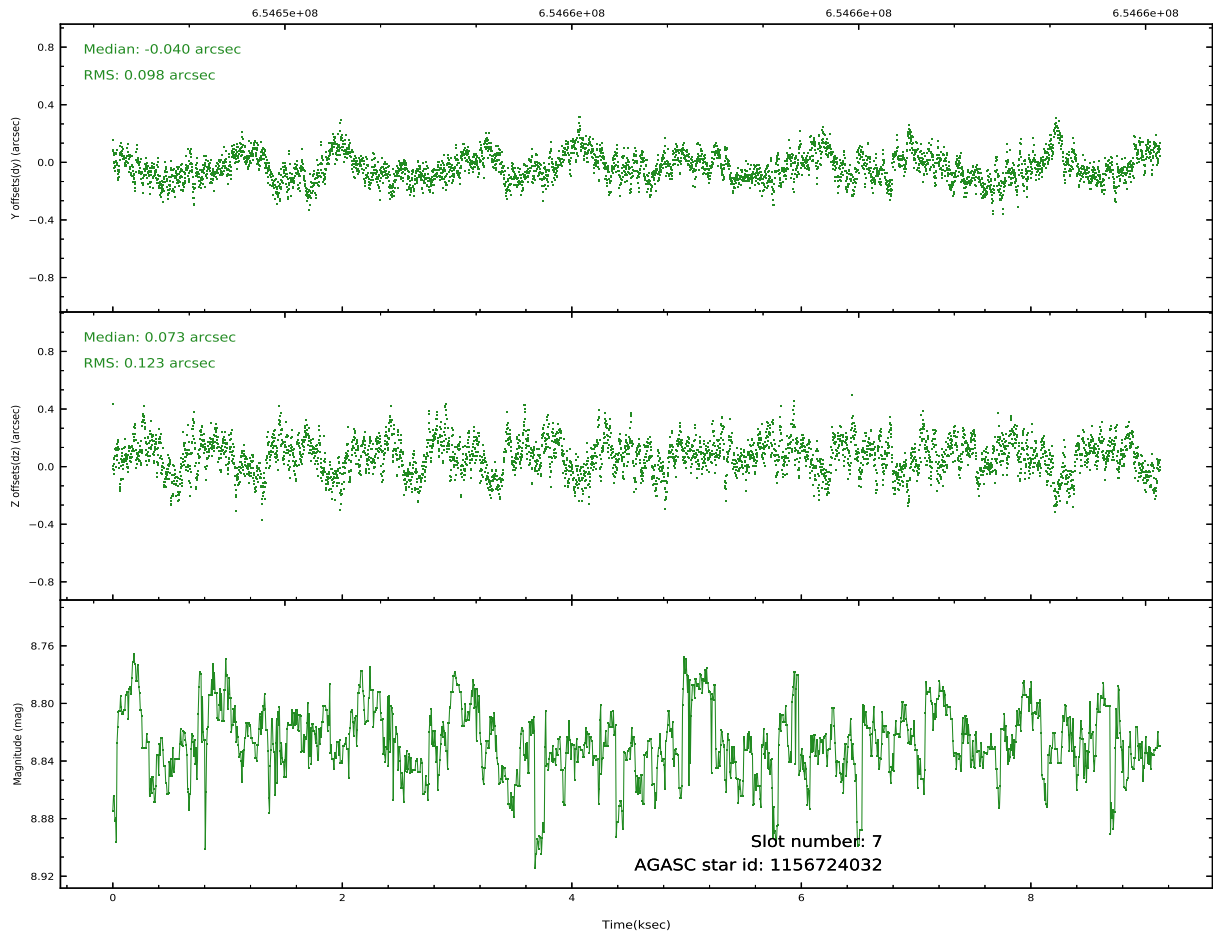
2.4.4 Slot 6



2.4.5 Slot 7

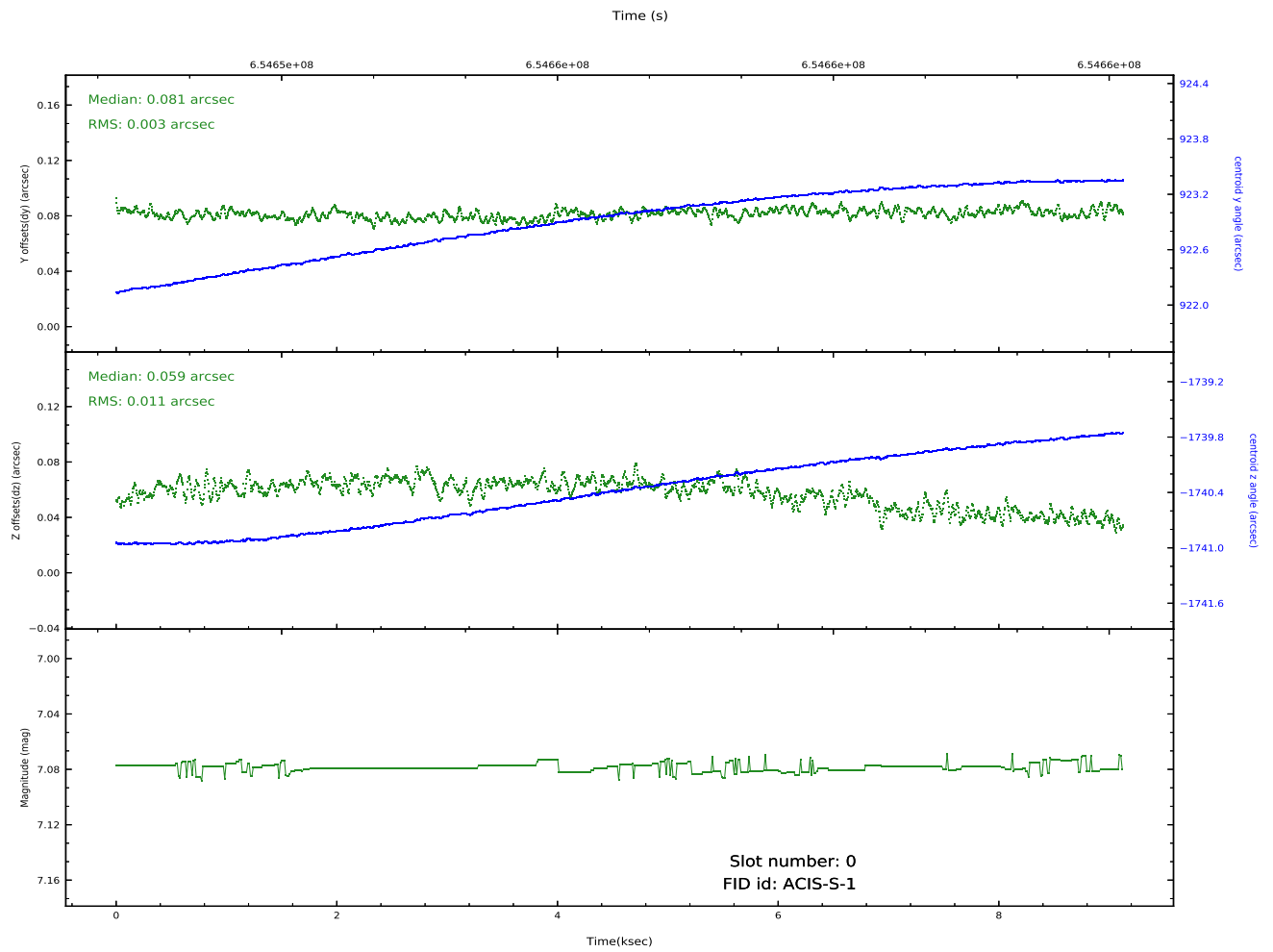
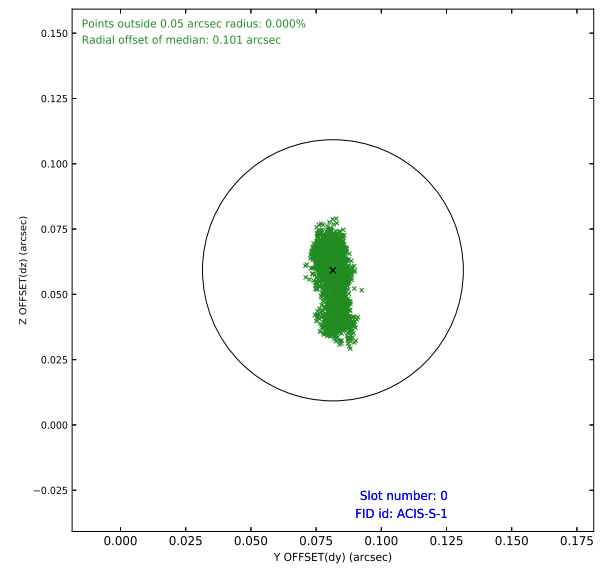
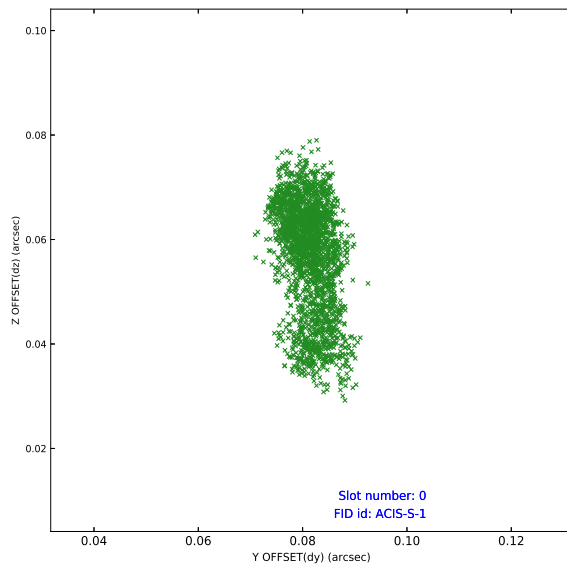


Time (s)

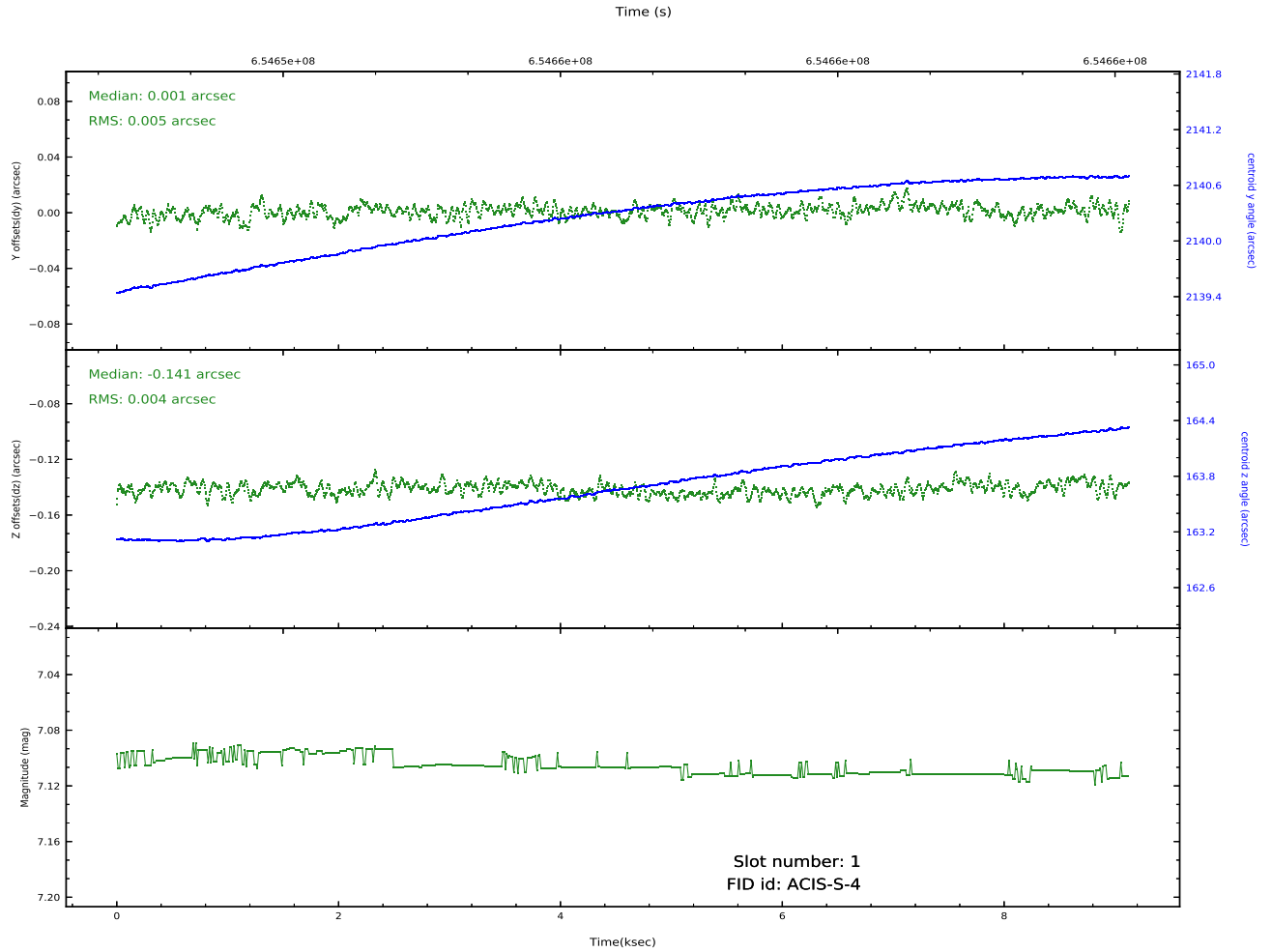
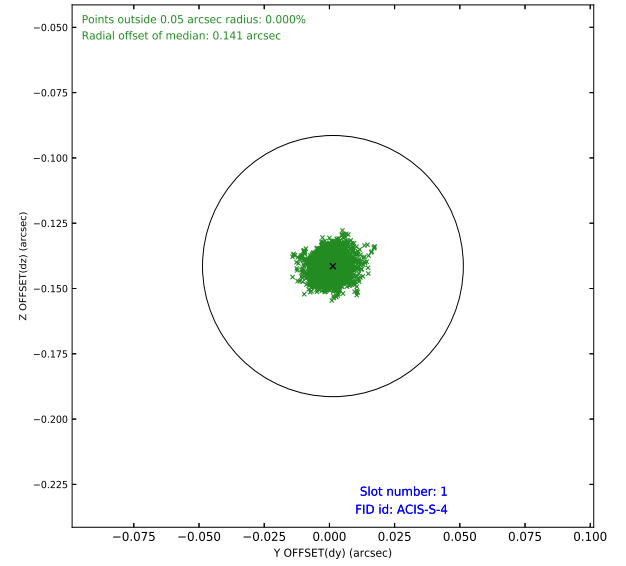
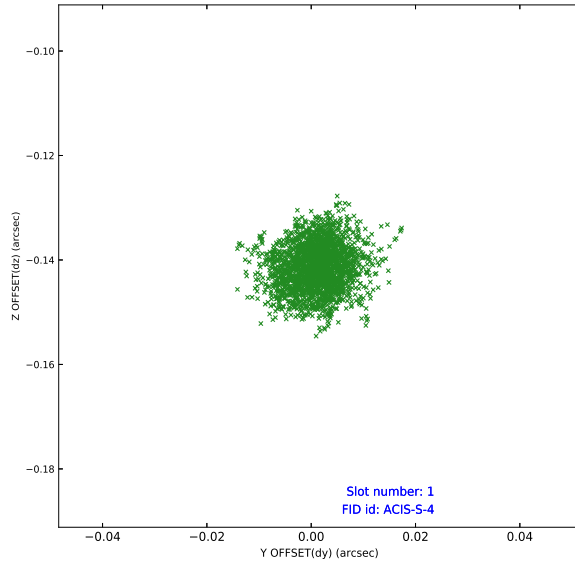


2.5 FID Slots

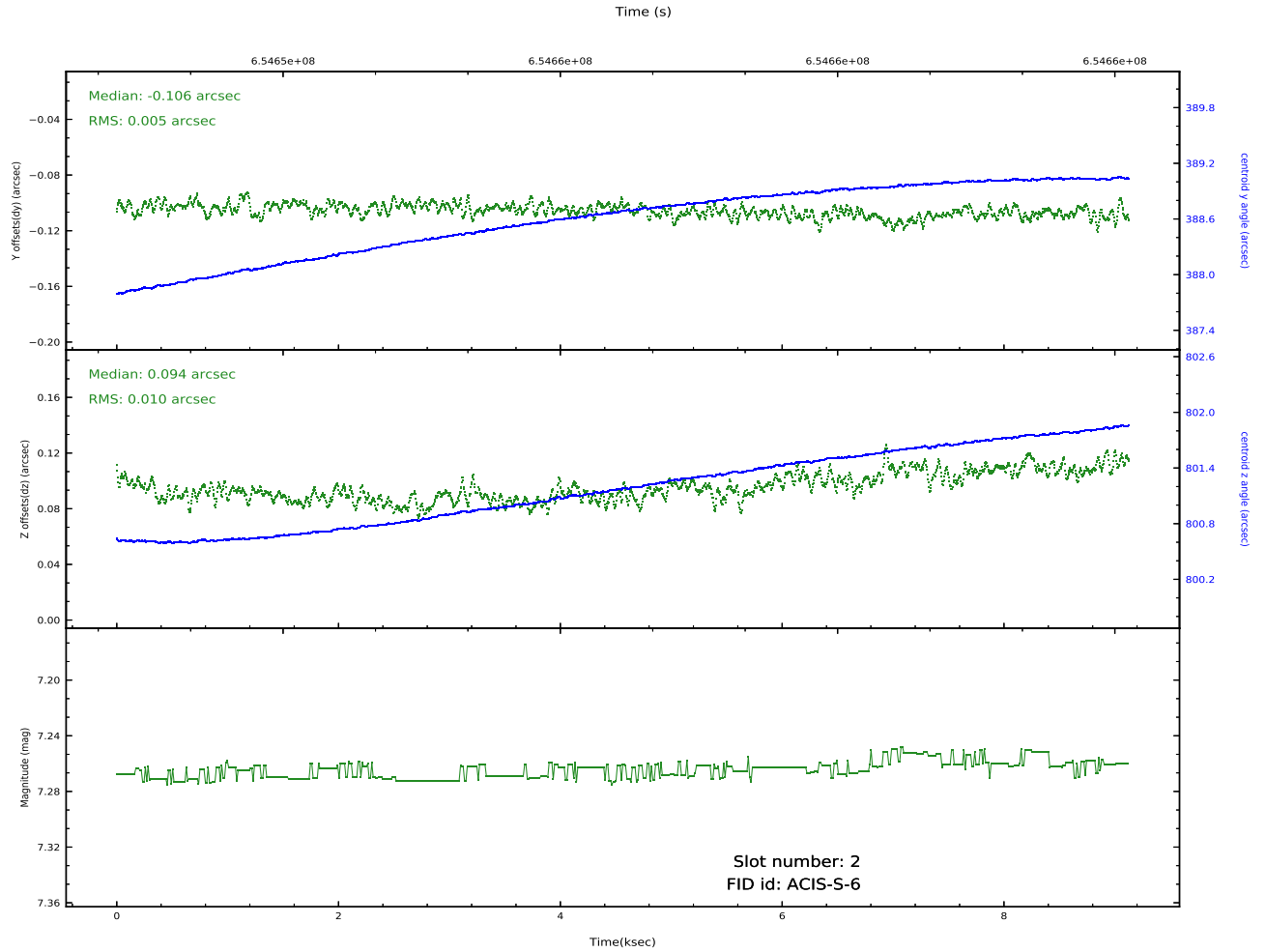
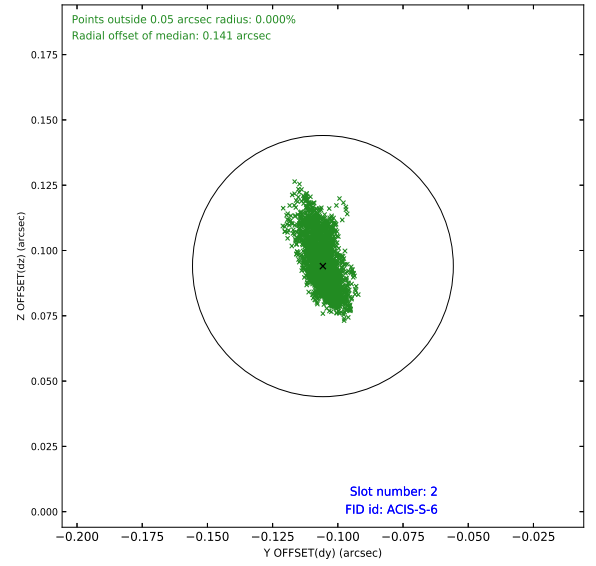
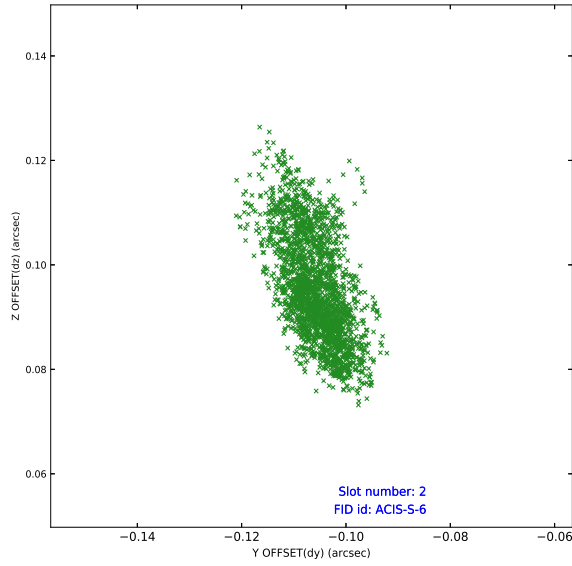
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0551000697613

A.2 Comments