

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5370 - L2 Version 4
Chandra X-Ray Center

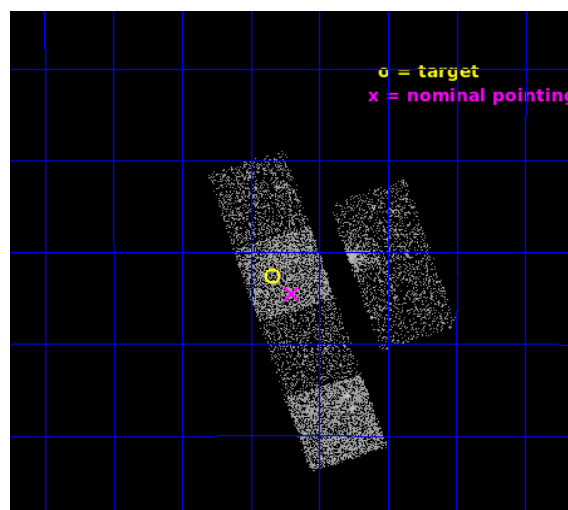
L2 Processing Date : Oct 9 2020

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1 Front

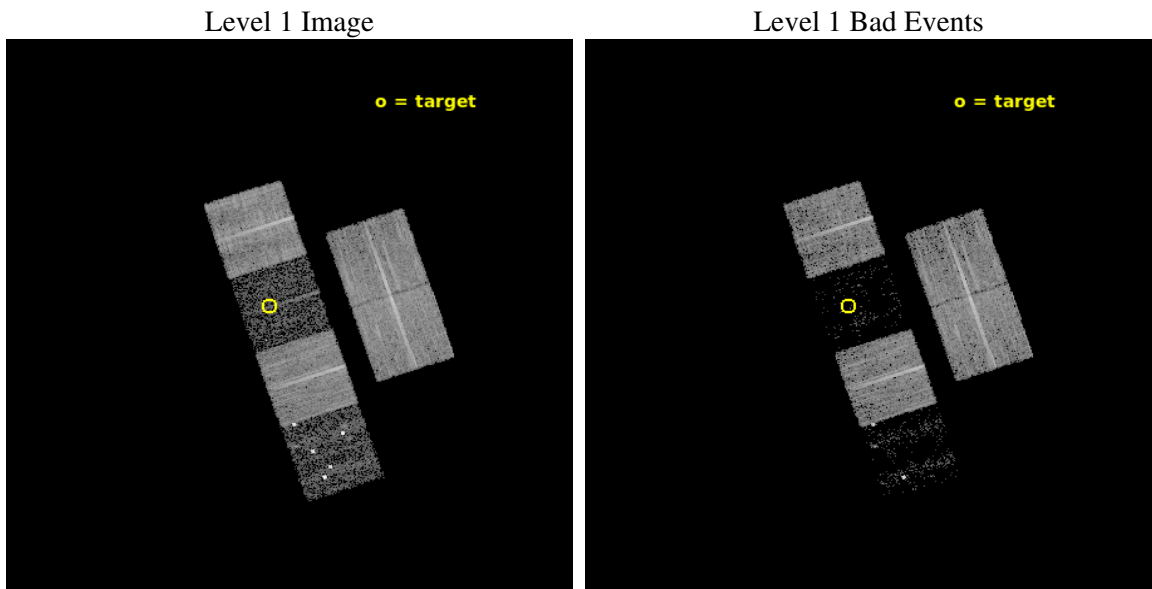
seq_num	100058	Sequence number
obs_id	5370	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.959791	Observer's specified target RA [deg]
dec_targ	-17.20983	Observer's specified target Dec [deg]
ra_nom	214.92504495761	Nominal RA [deg]
dec_nom	-17.242015523601	Nominal Dec [deg]
roll_nom	251.48807169727	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9259.836559236	Sum of GTIs [s]
livetime	9142.5829331188	Livetime [s]
ontime2	9259.8775992393	Sum of GTIs [s]
ontime3	9259.7134392262	Sum of GTIs [s]
ontime5	9259.7955192327	Sum of GTIs [s]
ontime6	9259.7544792295	Sum of GTIs [s]
ontime7	9259.836559236	Sum of GTIs [s]
ontime8	9256.4314289689	Sum of GTIs [s]
l2events	13693	Number of level 2 events



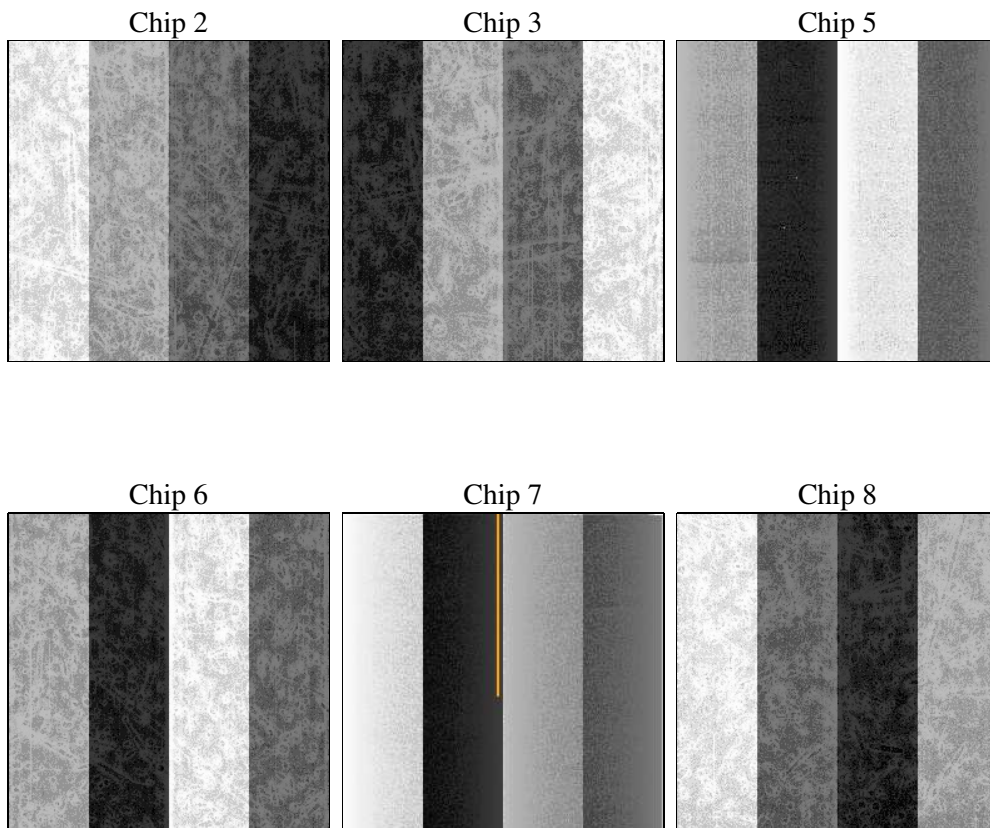
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9259.836559236	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	9259.8775992393	Sum of GTIs [s]
date	2020-10-09T12:44:33	Date and time of file creation	ontime3	9259.7134392262	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	9259.7955192327	Sum of GTIs [s]
			ontime6	9259.7544792295	Sum of GTIs [s]
			ontime7	9259.836559236	Sum of GTIs [s]
			ontime8	9256.4314289689	Sum of GTIs [s]
			l1events	198298	Number of level 1 events

2.1.4 Events

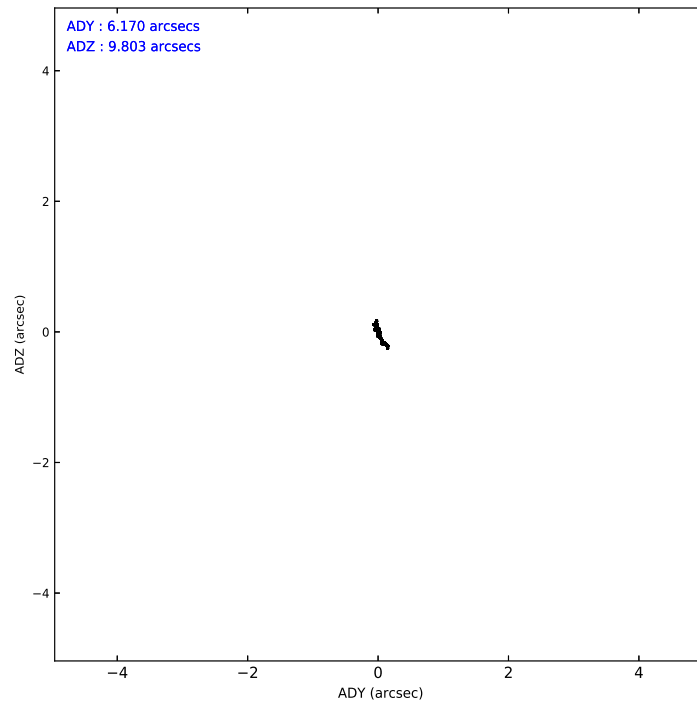
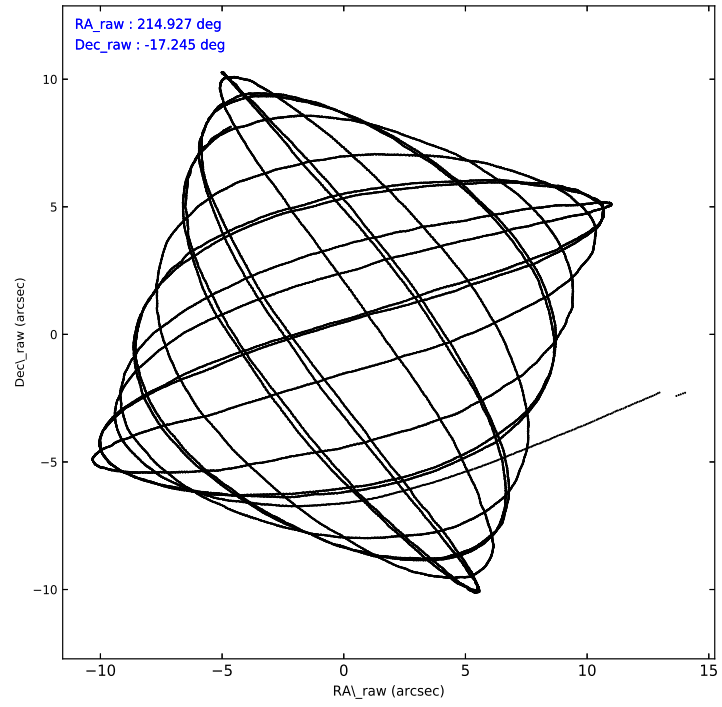
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	47039	41165	17631	40287	5724	46452
rejected events	45052	39237	4052	38514	1128	35356
rejected %	95%	95%	22%	95%	19%	76%

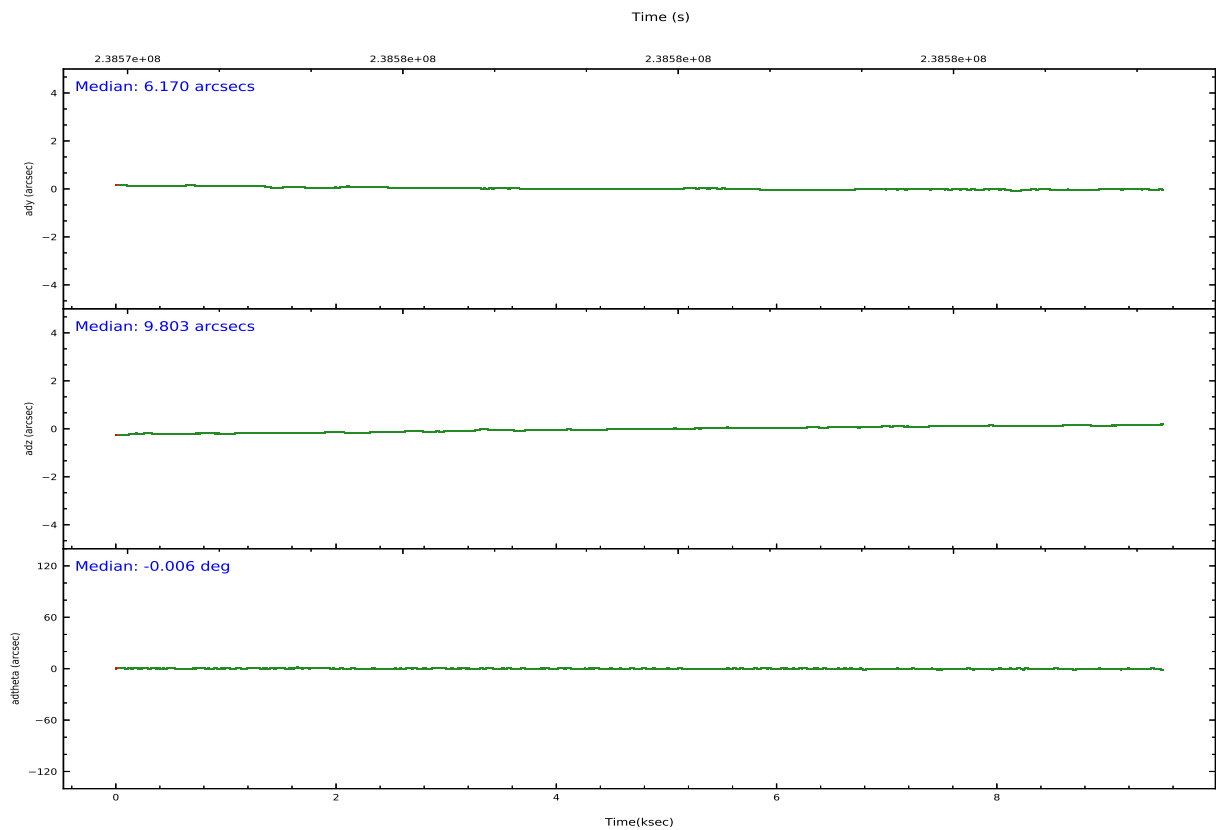
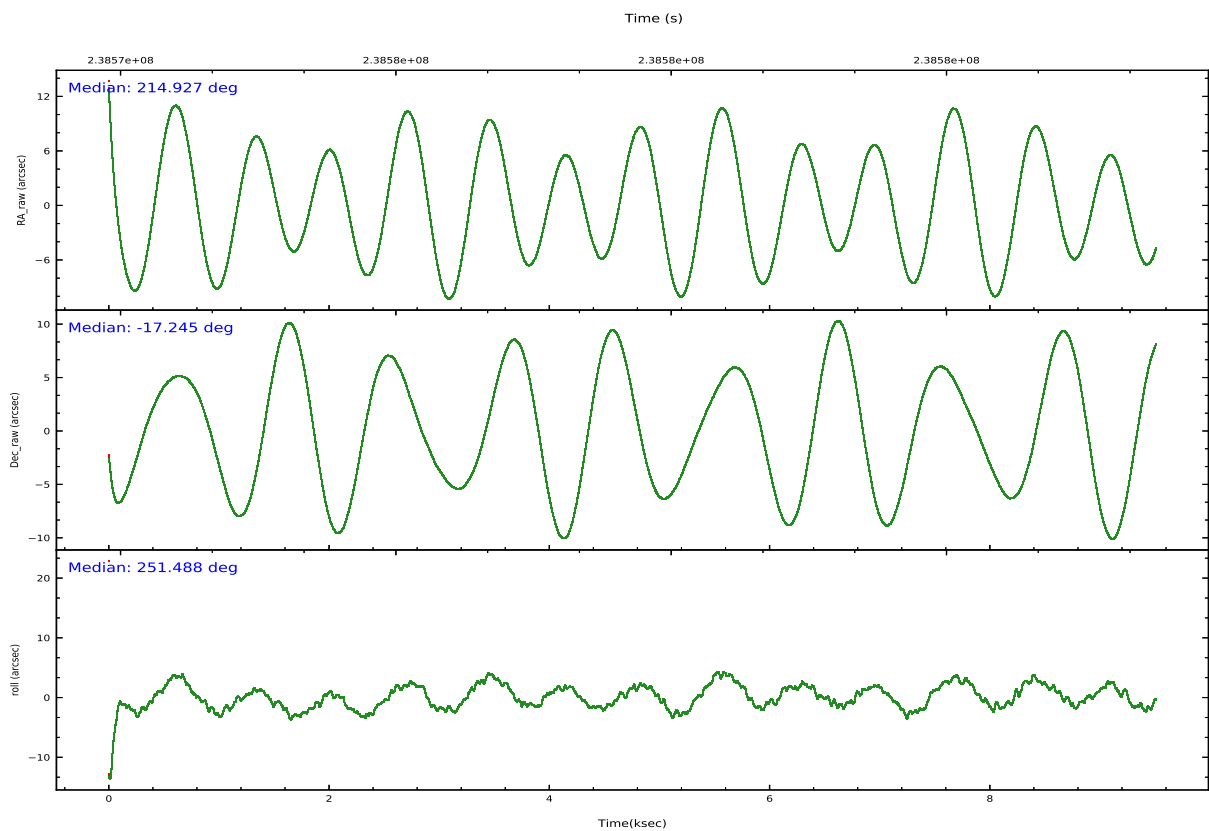
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	872	1125	8012	861	1247	3030
	1%	2%	45%	2%	21%	6%
grade 1 events	16	11	1603	13	34	26
	0%	0%	9%	0%	0%	0%
grade 2 events	413	230	3257	323	1509	2632
	0%	0%	18%	0%	26%	5%
grade 3 events	248	244	934	270	721	1210
	0%	0%	5%	0%	12%	2%
grade 4 events	306	213	928	229	649	1084
	0%	0%	5%	0%	11%	2%
grade 5 events	62	32	669	50	130	239
	0%	0%	3%	0%	2%	0%
grade 6 events	189	137	641	118	534	3277
	0%	0%	3%	0%	9%	7%
grade 7 events	44933	39173	1587	38423	900	34954
	95%	95%	9%	95%	15%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	214.921200	214.92504495761	Subarray requested	NONE	NONE
[deg] Pointing Dec	-17.217979	-17.242015523601	Alternating exposures requested	N	N
[deg] Pointing Roll	251.329319	251.48807169727	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	238572064.184000	238572064.184000			
[s] Window stop time (MET)	238615264.184000	238615264.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	238572603.184000	238571629.35137			
Observation start date	2005-07-24T06:08:59	2005-07-24T05:53:49			
[s] Observation end time (MET)	238581903.184000	238582037.20184			
Observation end date	2005-07-24T08:43:59	2005-07-24T08:47:17			
Read mode	TIMED	TIMED			

2.3 Aspect



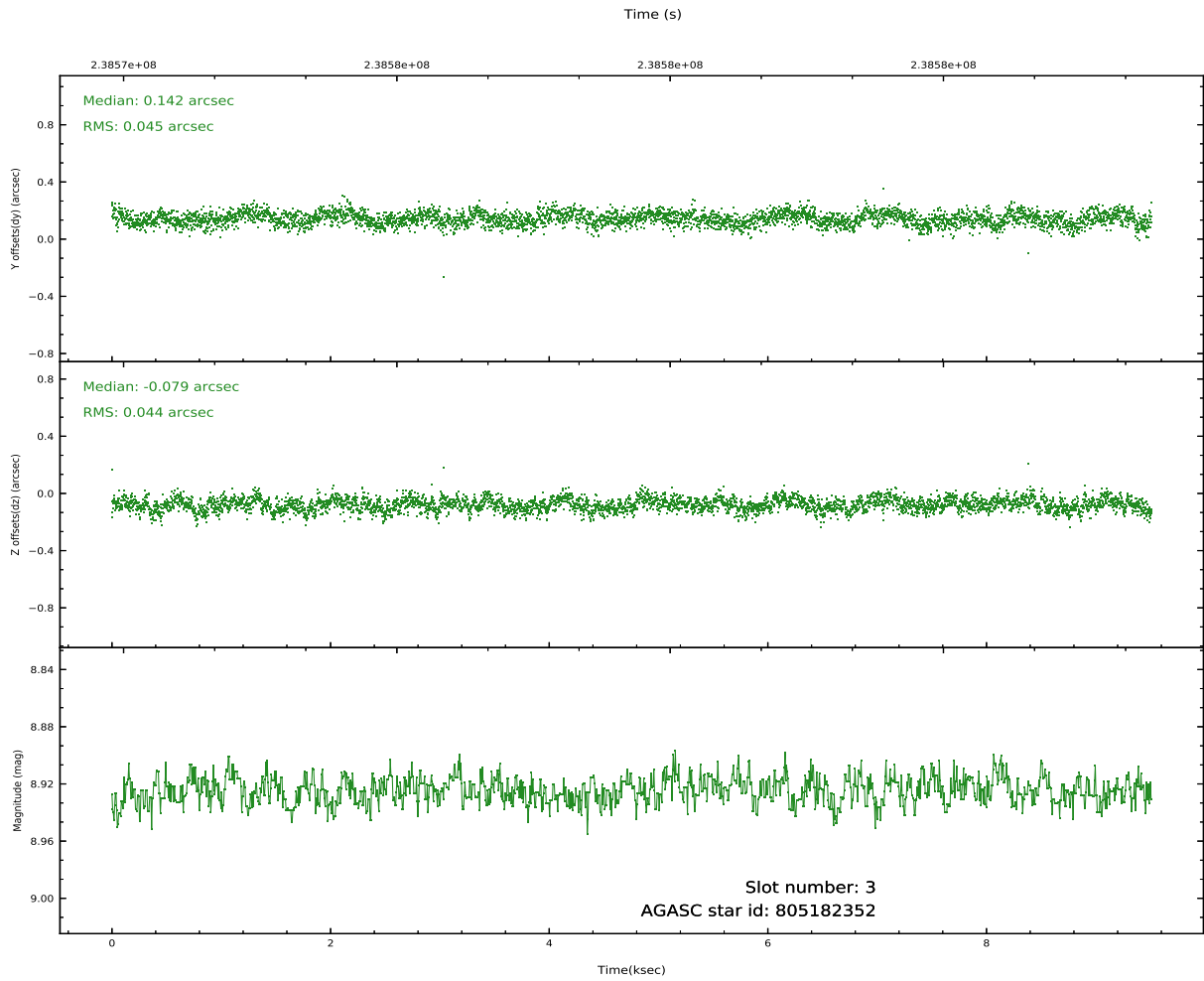
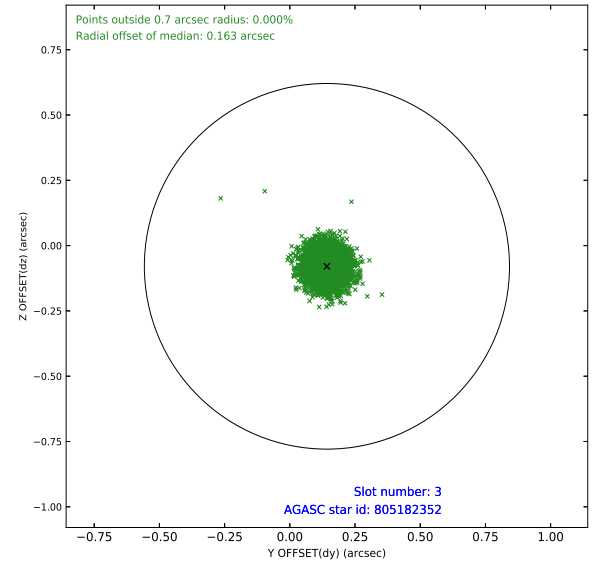
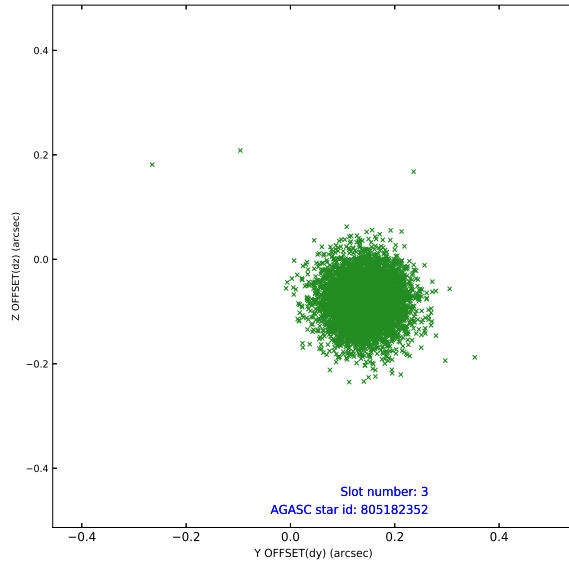


Slot Statistics

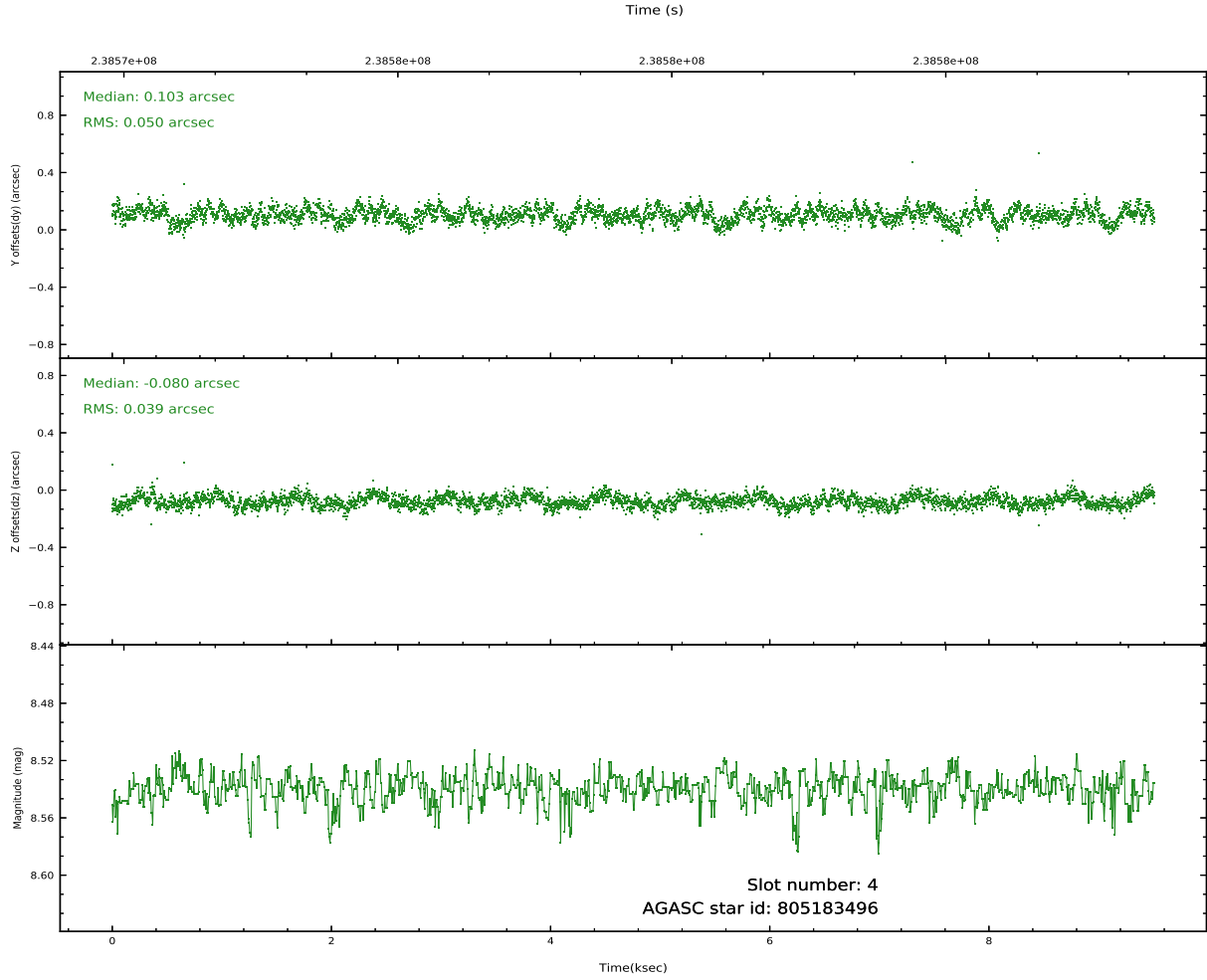
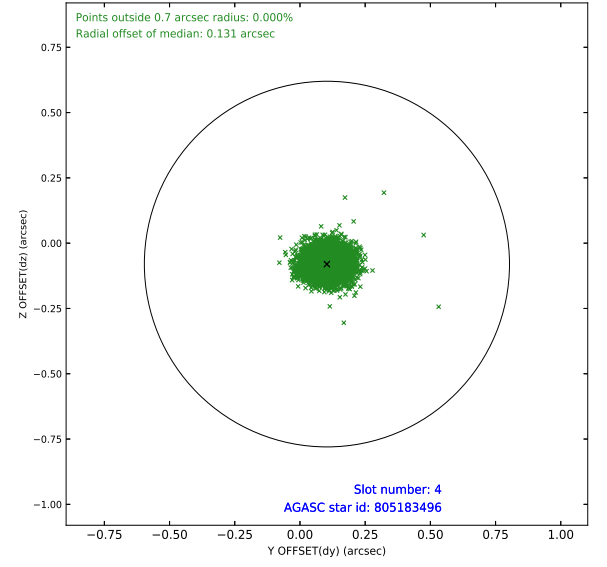
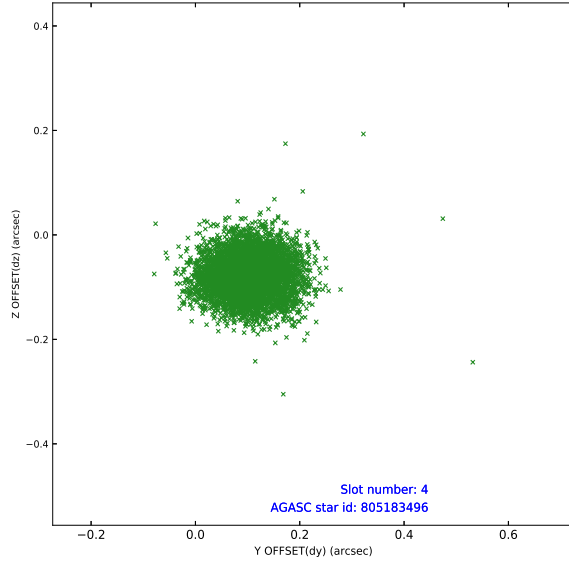
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2320	1.000	-0.098	-0.071	0.007	0.011	0.000000	0.000000	-758.96	-1731
1	FID		ACIS-S-4	7.21	2320	1.000	0.172	0.066	0.005	0.009	0.000000	0.000000	2154.27	177
2	FID		ACIS-S-5	7.23	2319	1.000	-0.105	0.014	0.007	0.012	0.000000	0.000000	-1811.14	171
3	GUIDE	used	805182352	8.92	4635	1.000	0.142	-0.079	0.066	0.106	214.624580	-17.686015	1922.97	-424
4	GUIDE	used	805183496	8.54	4638	1.000	0.103	-0.080	0.068	0.108	214.568748	-17.733891	2148.27	-550
5	GUIDE	used	805185120	8.61	4568	1.000	0.032	0.010	0.062	0.101	215.253528	-17.793163	1598.41	1742
6	GUIDE	used	805187072	8.73	4579	1.000	-0.120	0.069	0.063	0.102	215.513645	-17.149952	-881.22	1853
7	GUIDE	used	805188160	8.97	4632	1.000	-0.157	0.080	0.067	0.109	215.356854	-16.987214	-1265.93	1156

2.4 Star Slots

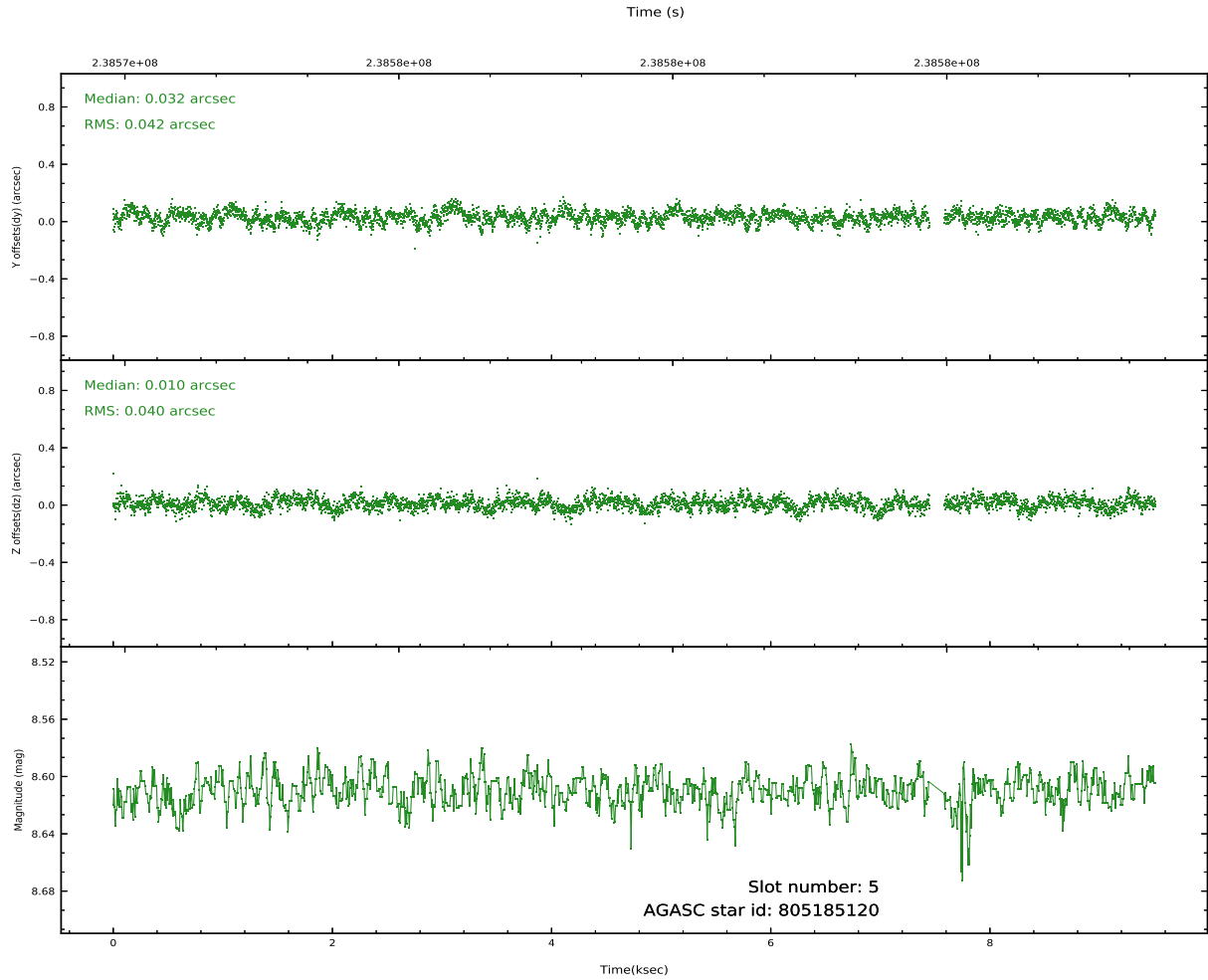
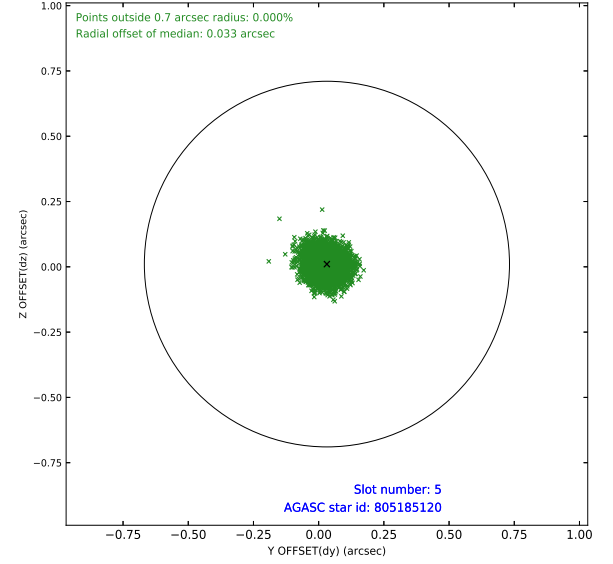
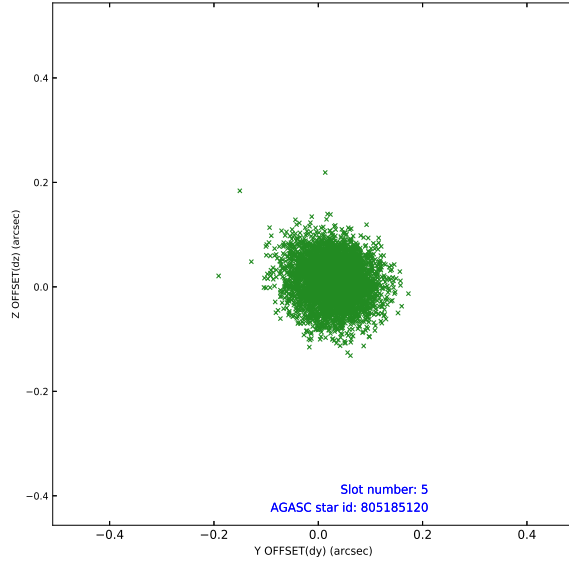
2.4.1 Slot 3



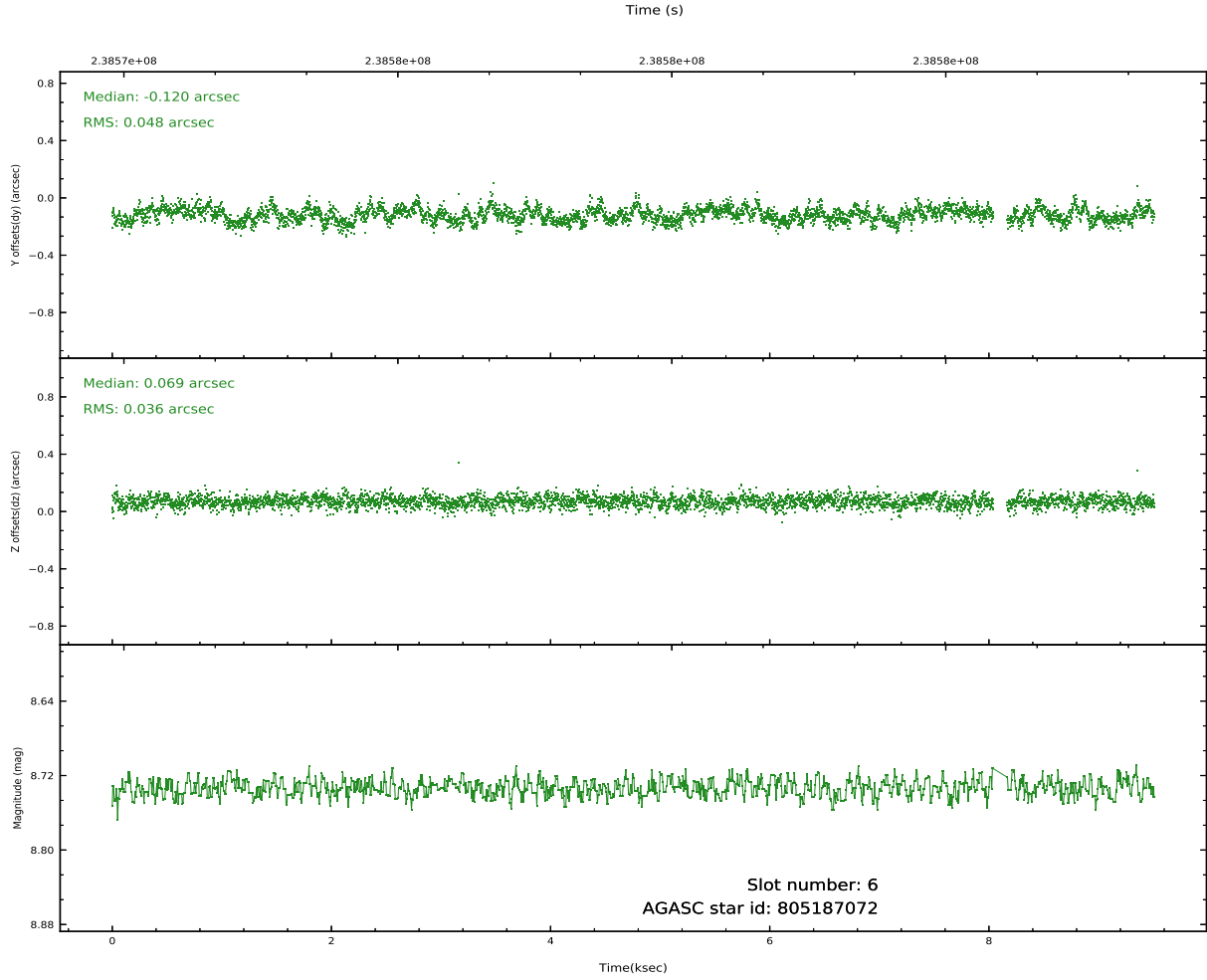
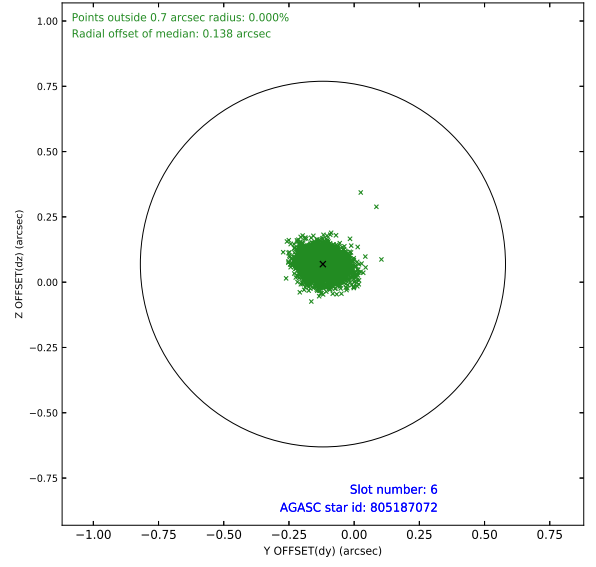
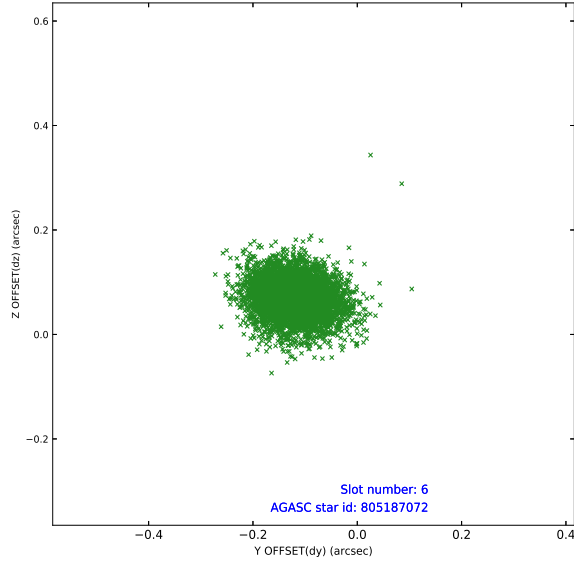
2.4.2 Slot 4



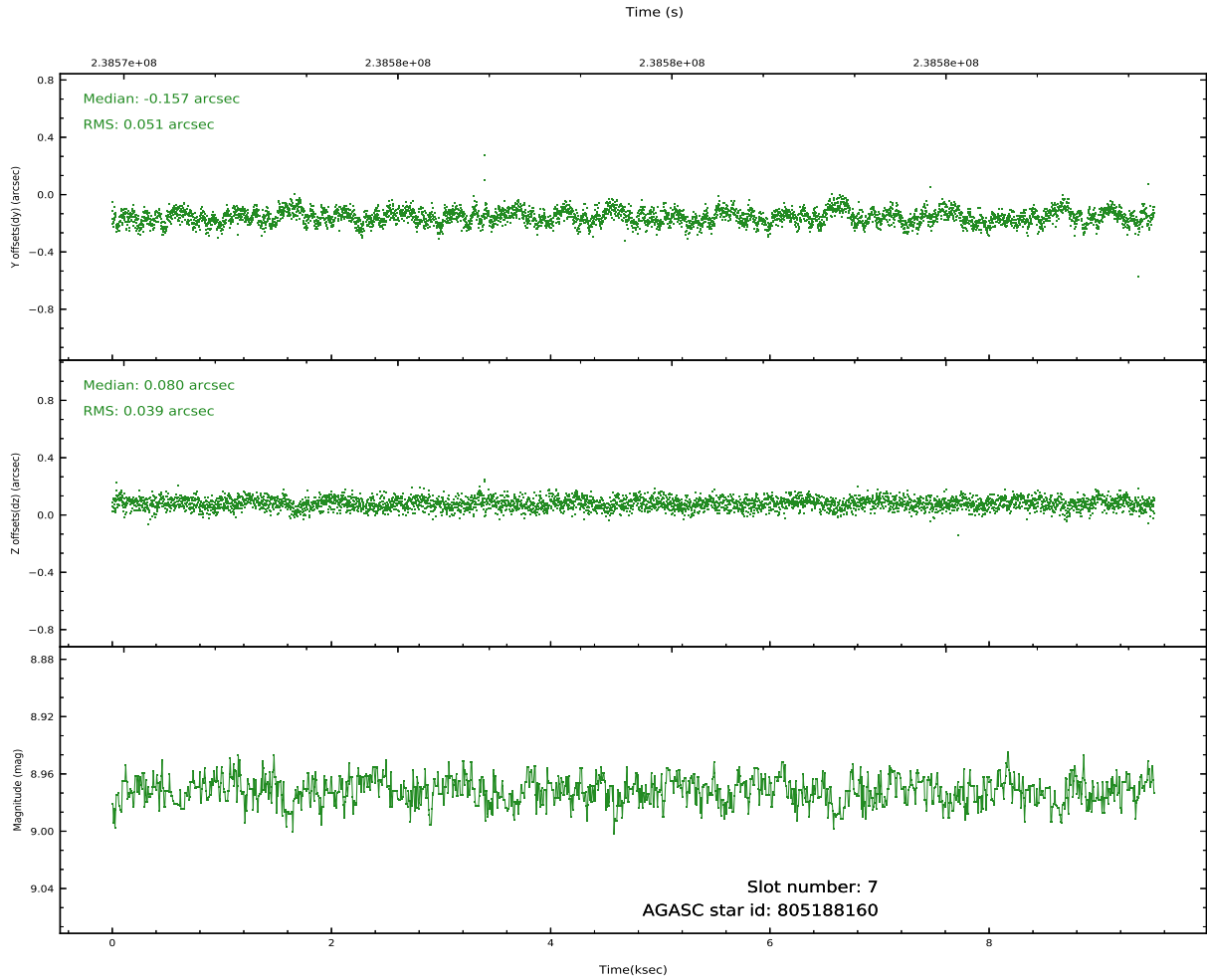
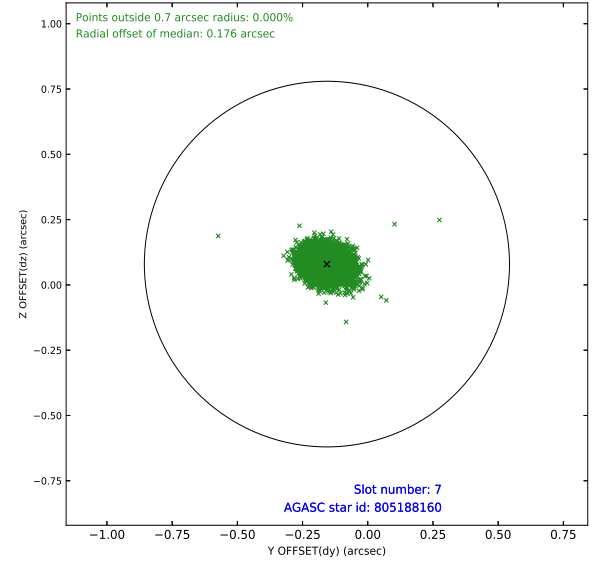
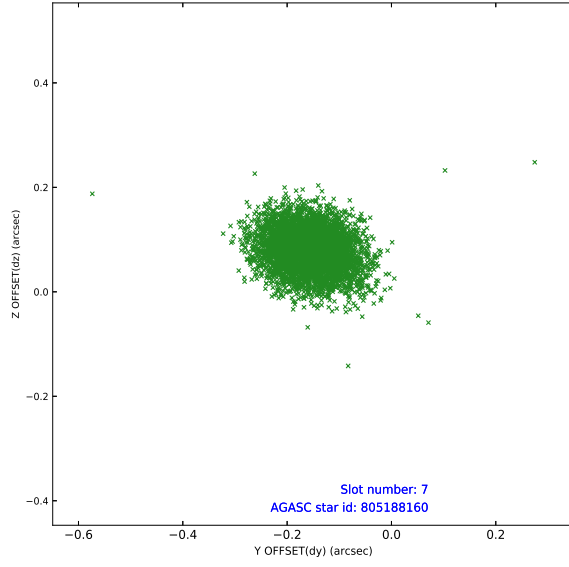
2.4.3 Slot 5



2.4.4 Slot 6

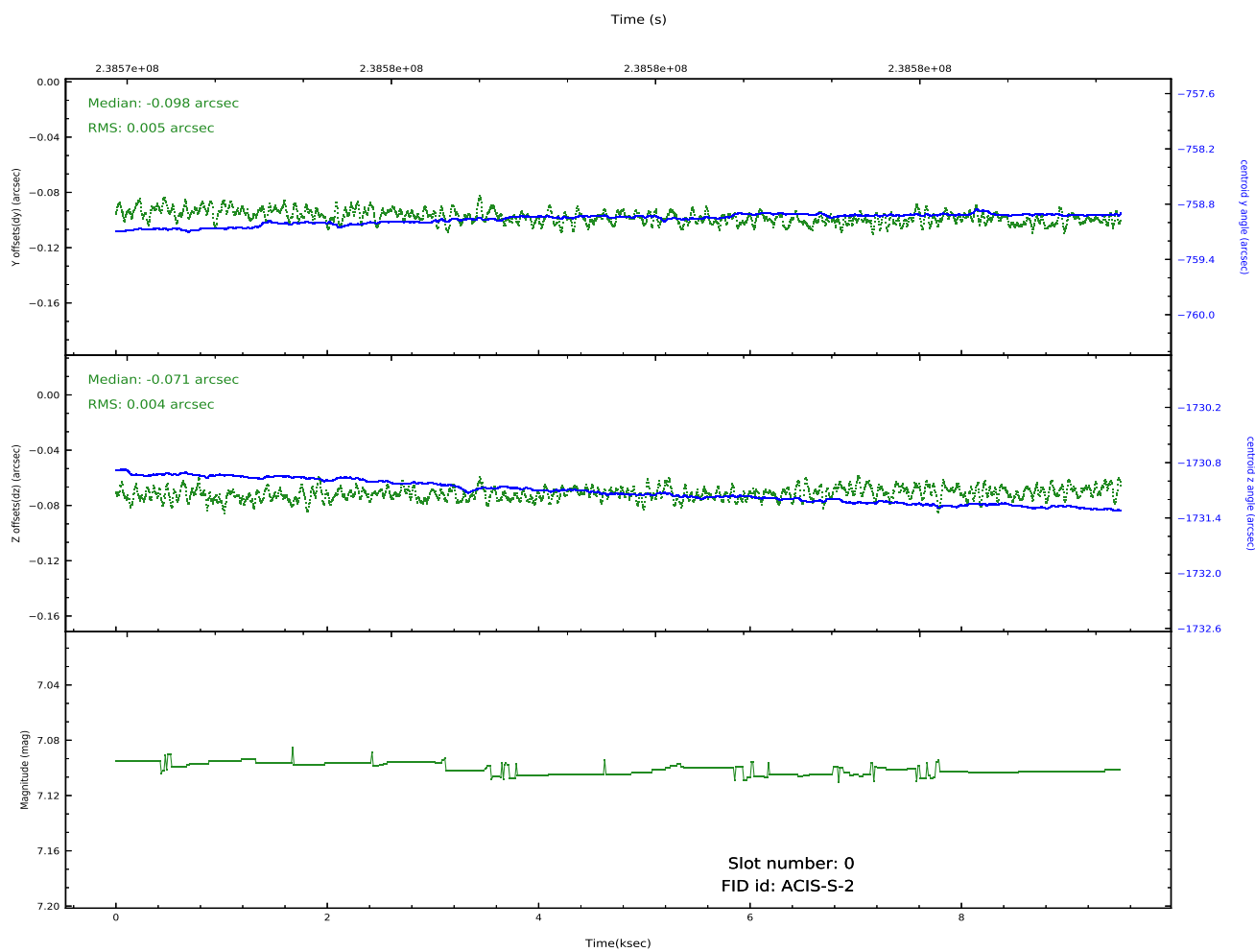
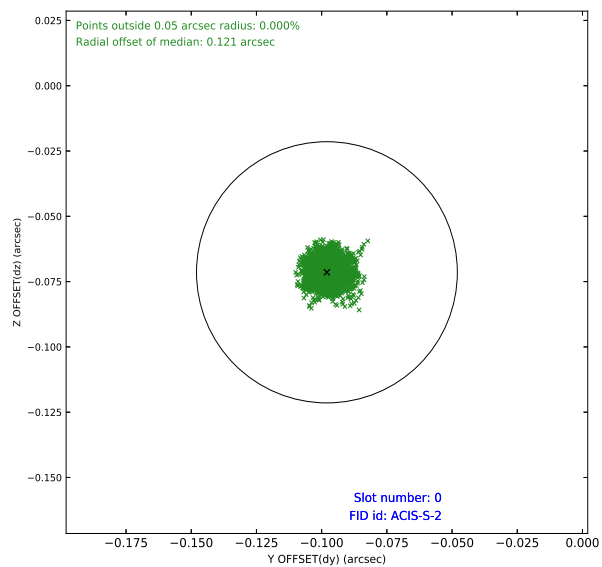
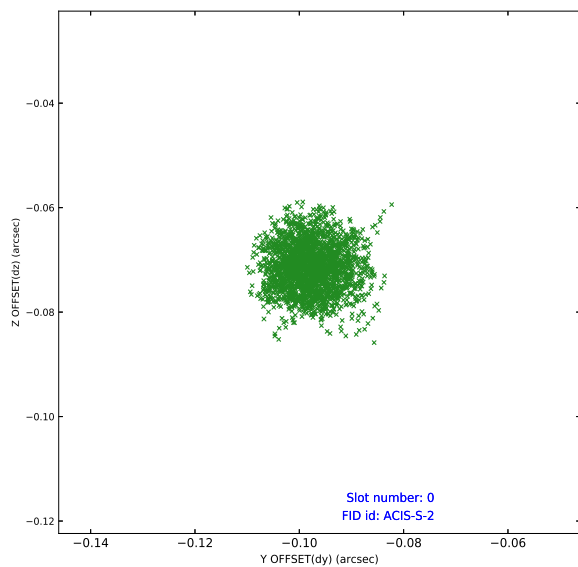


2.4.5 Slot 7

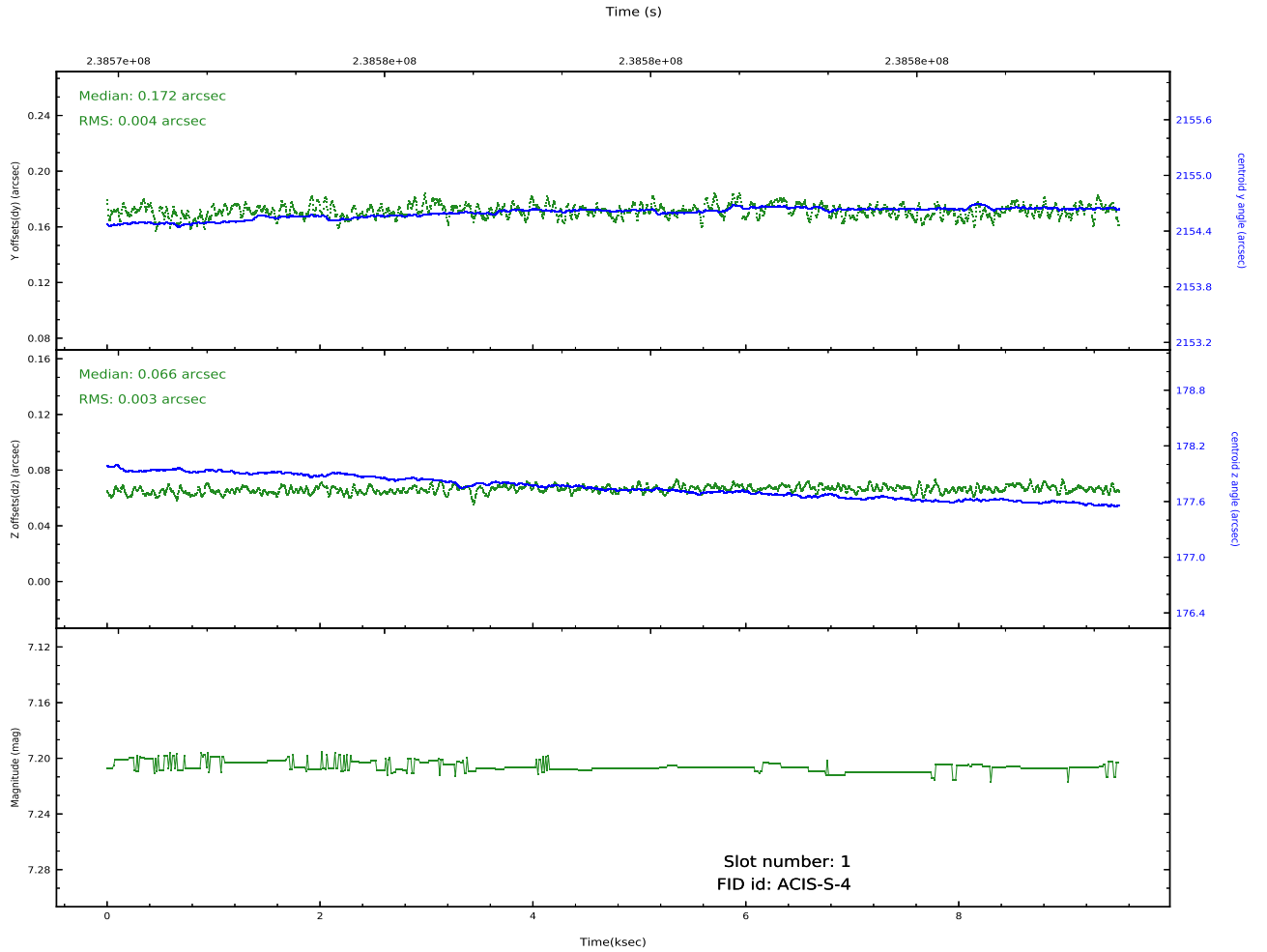
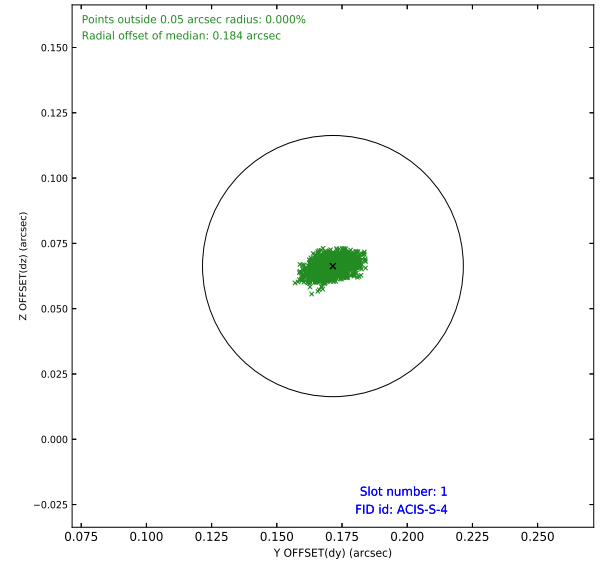
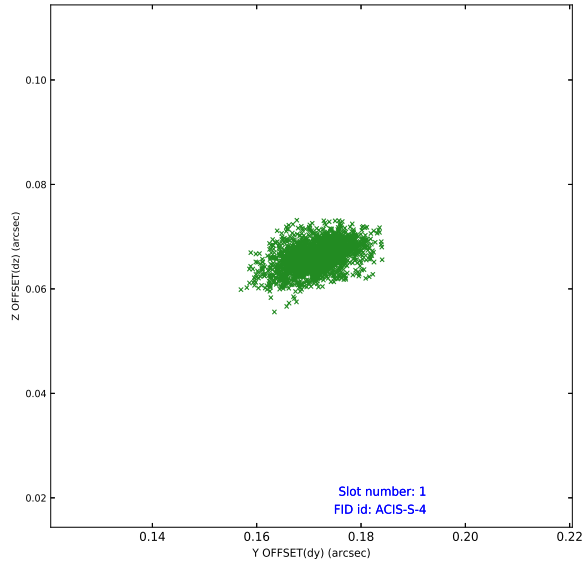


2.5 FID Slots

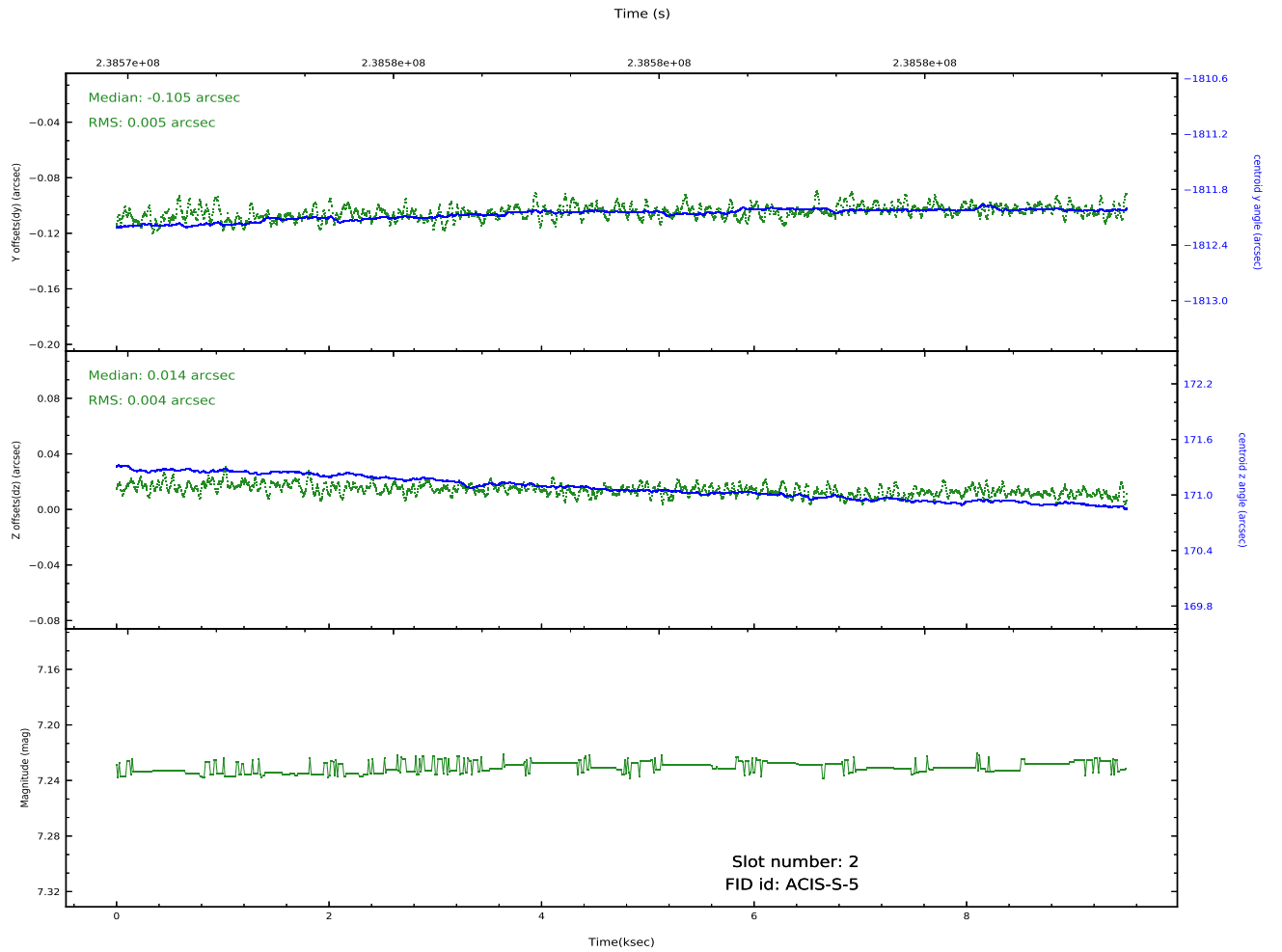
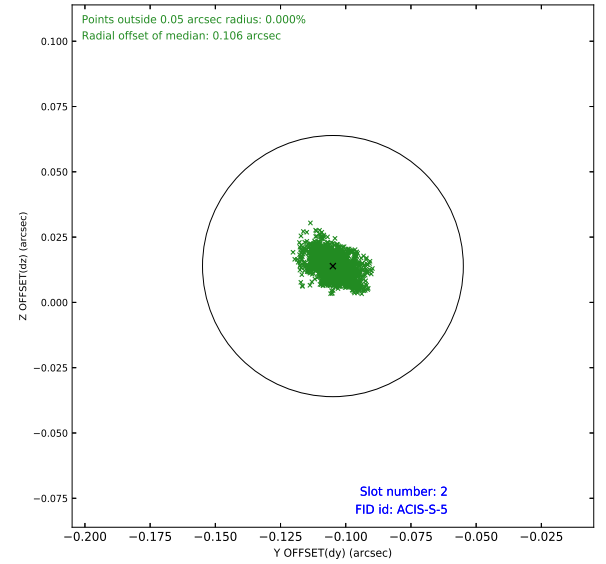
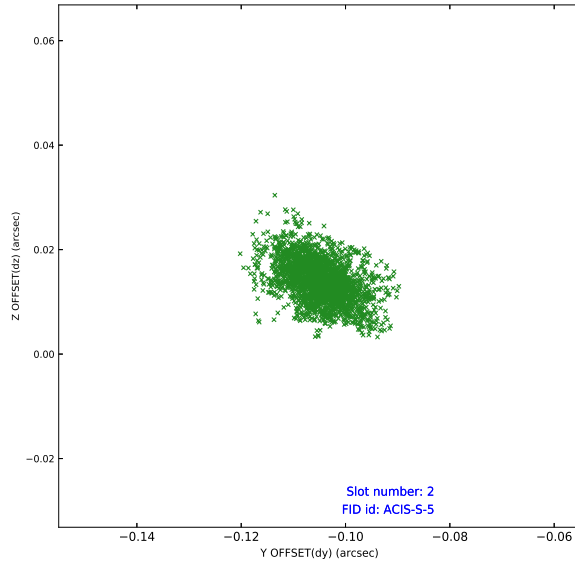
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.392435

A.2 Comments

Charge time for this ObsId remains at previous value of 9.392435 ks although with the current processing the charge time would have been 9.26 ksec.

=====

This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target. Window constraint met.