

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6315 - L2 Version 4
Chandra X-Ray Center

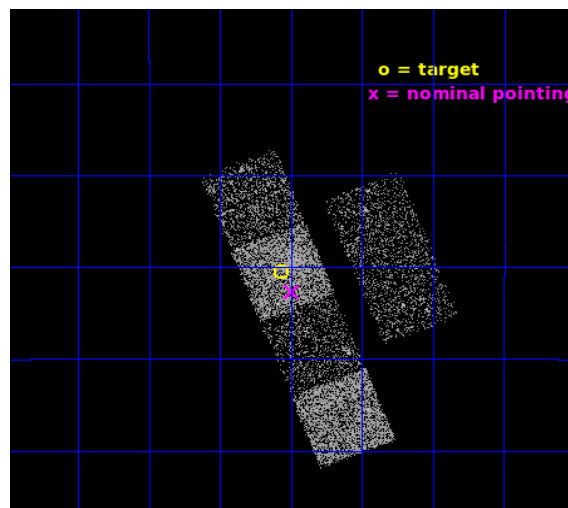
L2 Processing Date : Oct 9 2020

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1 Front

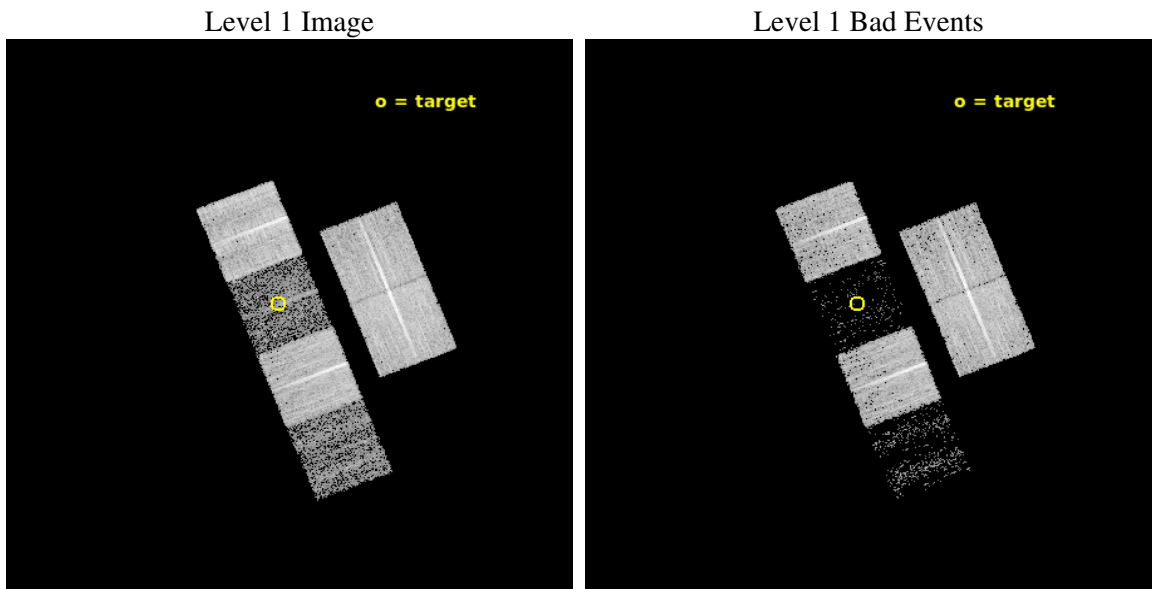
seq_num	100054	Sequence number
obs_id	6315	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.892948	Observer's specified target RA [deg]
dec_targ	-8.174801	Observer's specified target Dec [deg]
ra_nom	202.87336720489	Nominal RA [deg]
dec_nom	-8.2111348678375	Nominal Dec [deg]
roll_nom	248.32895630087	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10182.399962068	Sum of GTIs [s]
livetime	10053.464282643	Livetime [s]
ontime2	10182.399962068	Sum of GTIs [s]
ontime3	10182.399962068	Sum of GTIs [s]
ontime5	10182.399962068	Sum of GTIs [s]
ontime6	10182.399962068	Sum of GTIs [s]
ontime7	10182.399962068	Sum of GTIs [s]
ontime8	10182.399962068	Sum of GTIs [s]
l2events	14901	Number of level 2 events



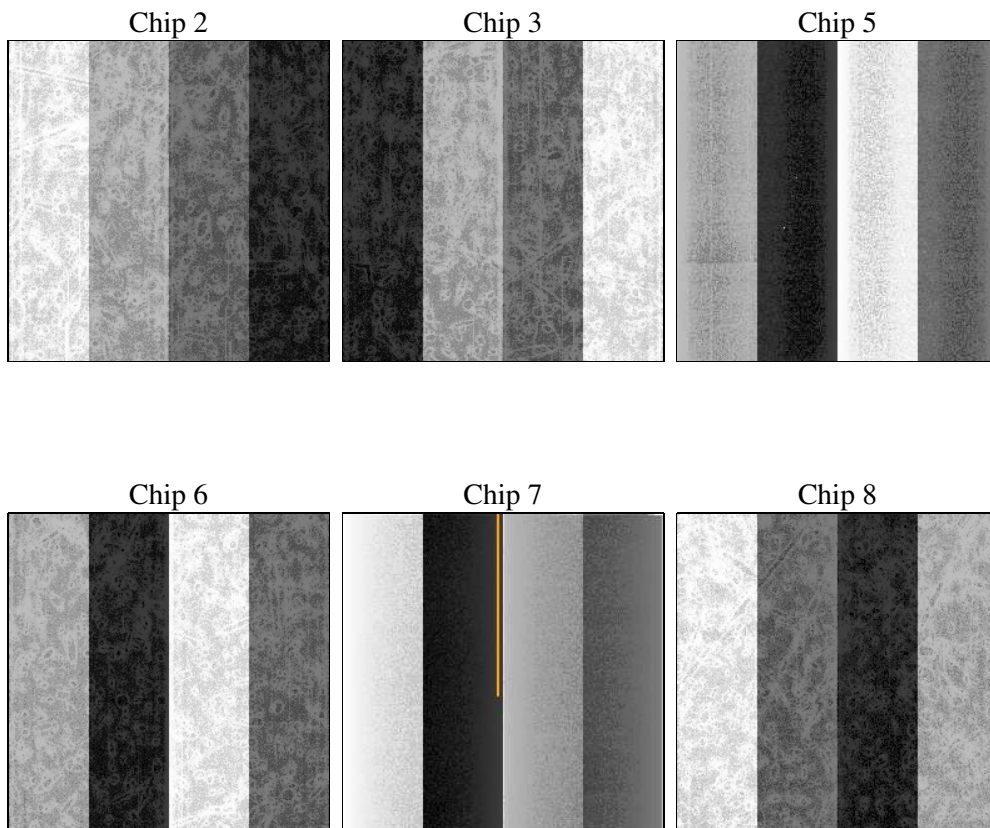
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10182.399962068	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	10182.399962068	Sum of GTIs [s]
date	2020-10-09T06:47:47	Date and time of file creation	ontime3	10182.399962068	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10182.399962068	Sum of GTIs [s]
			ontime6	10182.399962068	Sum of GTIs [s]
			ontime7	10182.399962068	Sum of GTIs [s]
			ontime8	10182.399962068	Sum of GTIs [s]
			l1events	211280	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	53507	44828	8033	44475	7141	53296
rejected events	51490	43277	2962	42579	1503	40139
rejected %	96%	96%	36%	95%	21%	75%

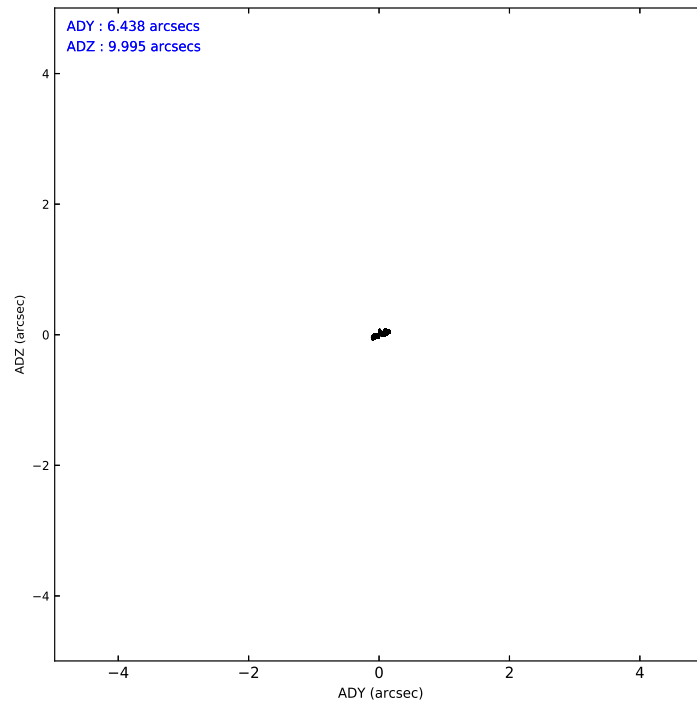
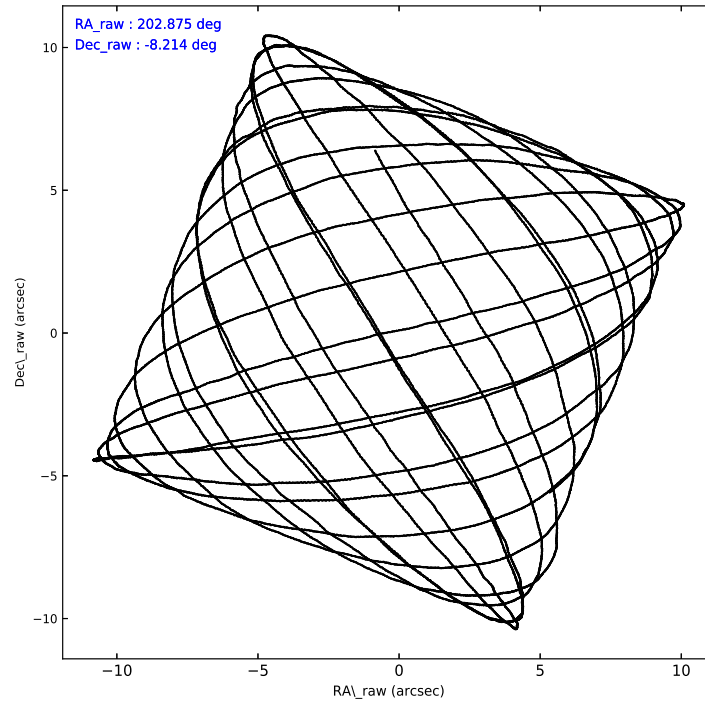
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	798	749	1366	982	1845	3720
	1%	1%	17%	2%	25%	6%
grade 1 events	21	12	61	16	36	27
	0%	0%	0%	0%	0%	0%
grade 2 events	421	196	1913	340	1822	2958
	0%	0%	23%	0%	25%	5%
grade 3 events	292	270	689	247	838	1683
	0%	0%	8%	0%	11%	3%
grade 4 events	333	236	641	265	720	1533
	0%	0%	7%	0%	10%	2%
grade 5 events	60	38	468	39	201	268
	0%	0%	5%	0%	2%	0%
grade 6 events	219	149	652	127	626	3609
	0%	0%	8%	0%	8%	6%
grade 7 events	51363	43178	2243	42459	1053	39498
	95%	96%	27%	95%	14%	74%

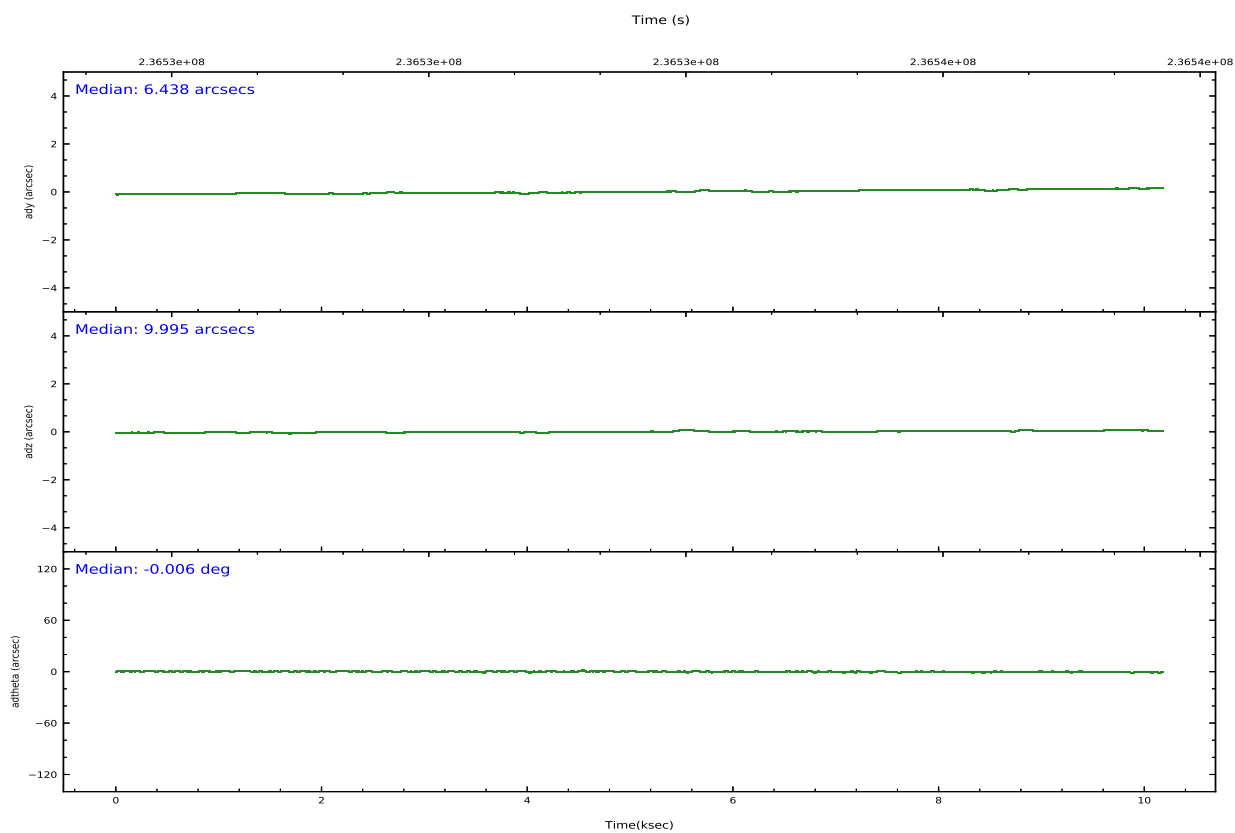
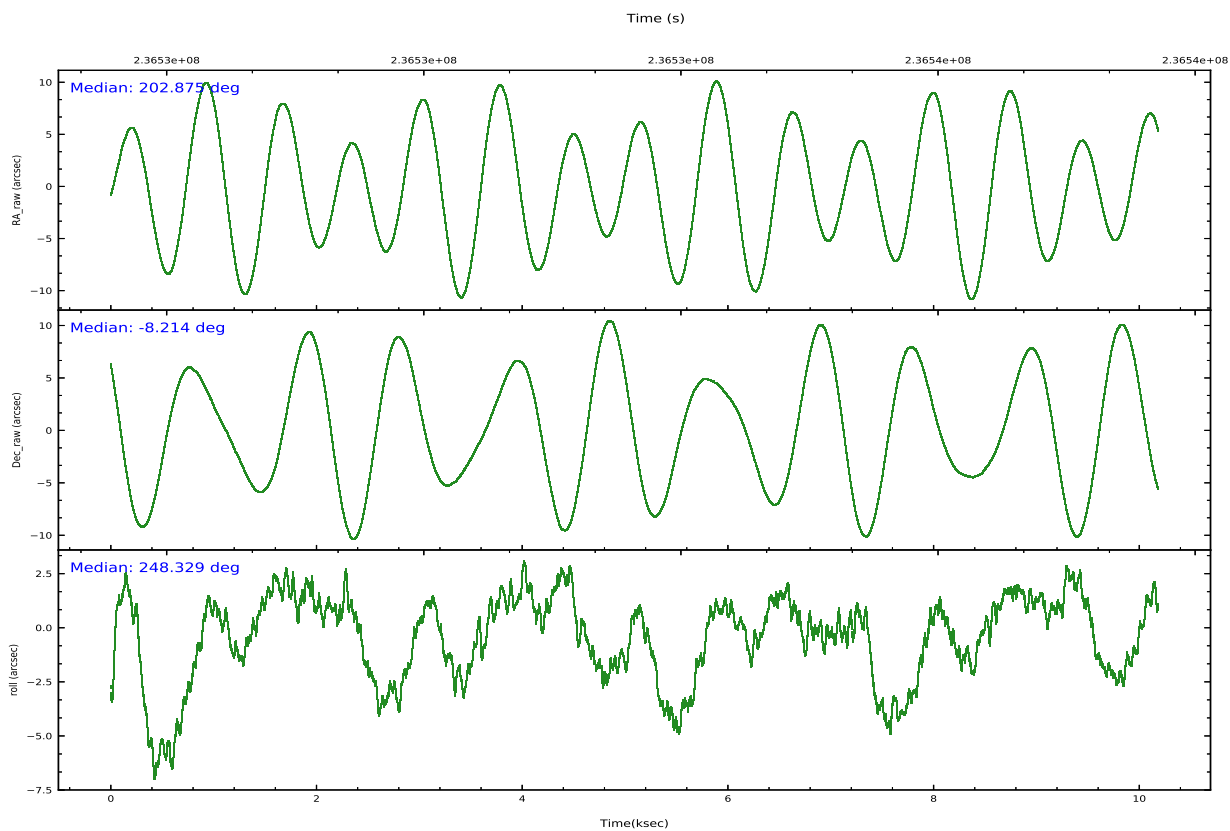
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	202.870956	202.87336720489
[deg] Pointing Dec	-8.187095	-8.211134867837499
[deg] Pointing Roll	248.168943	248.32895630087
[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)	236527140.184000	236526764.50779
Observation start date	2005-06-30T13:57:56	2005-06-30T13:52:44
[s] Observation end time (MET)	236537140.184000	236537274.34577
Observation end date	2005-06-30T16:44:36	2005-06-30T16:47:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



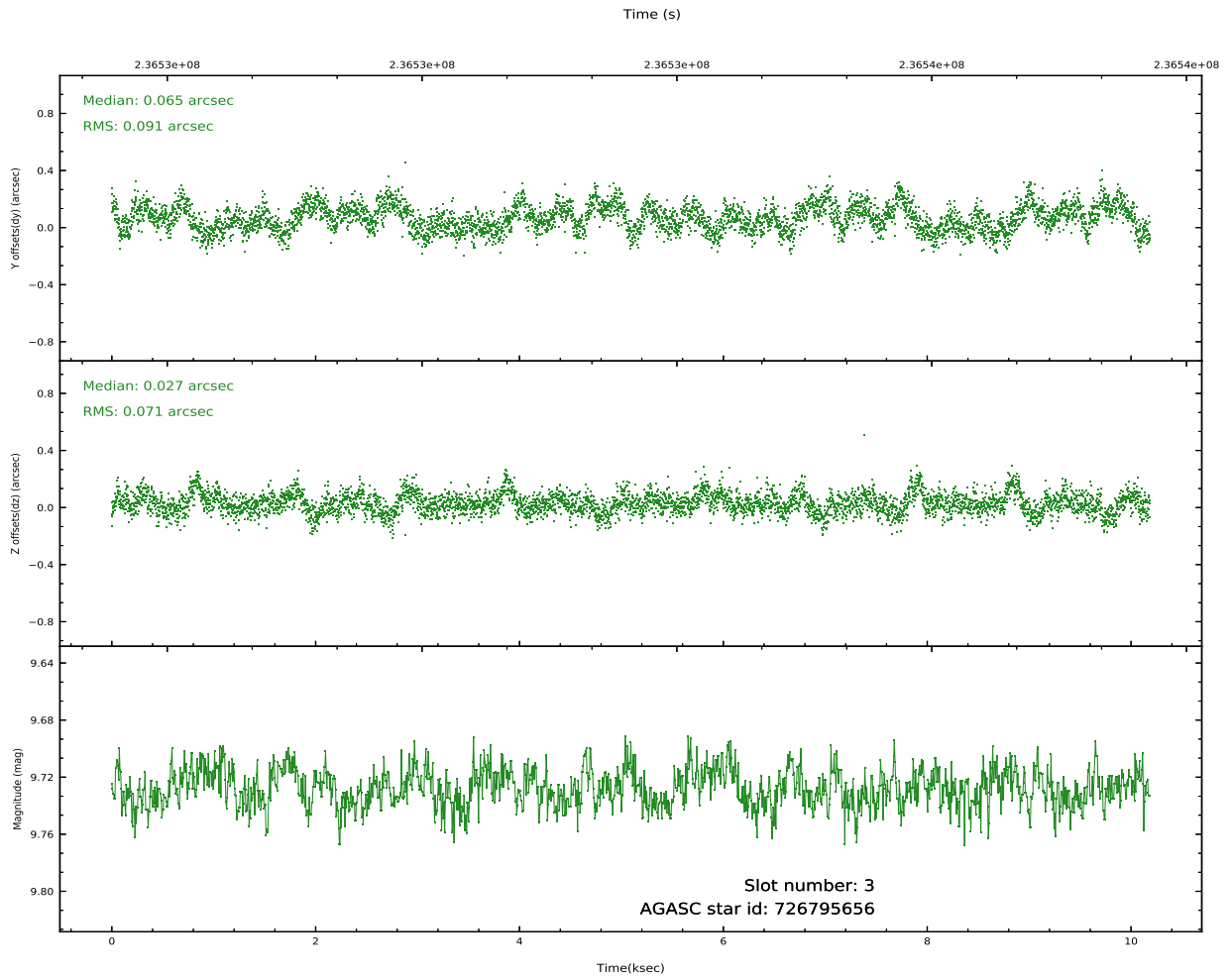
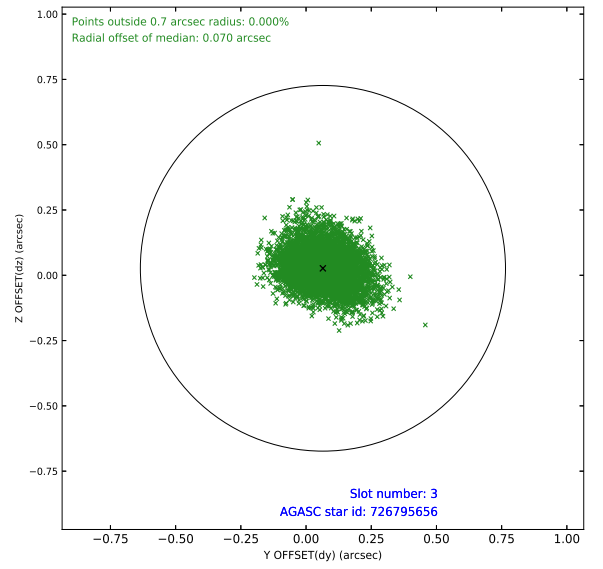
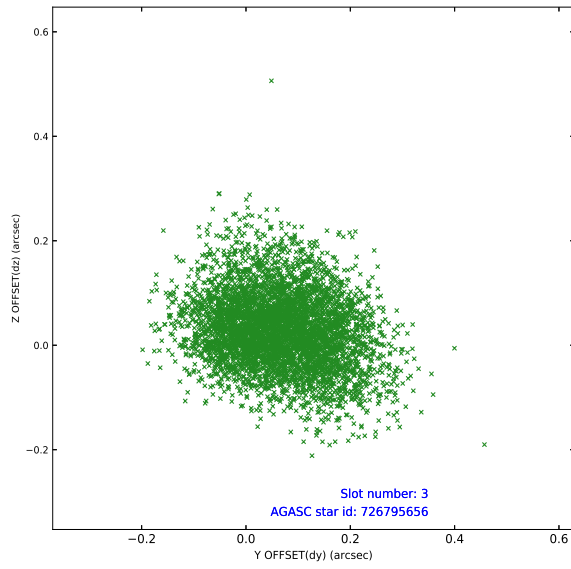


Slot Statistics

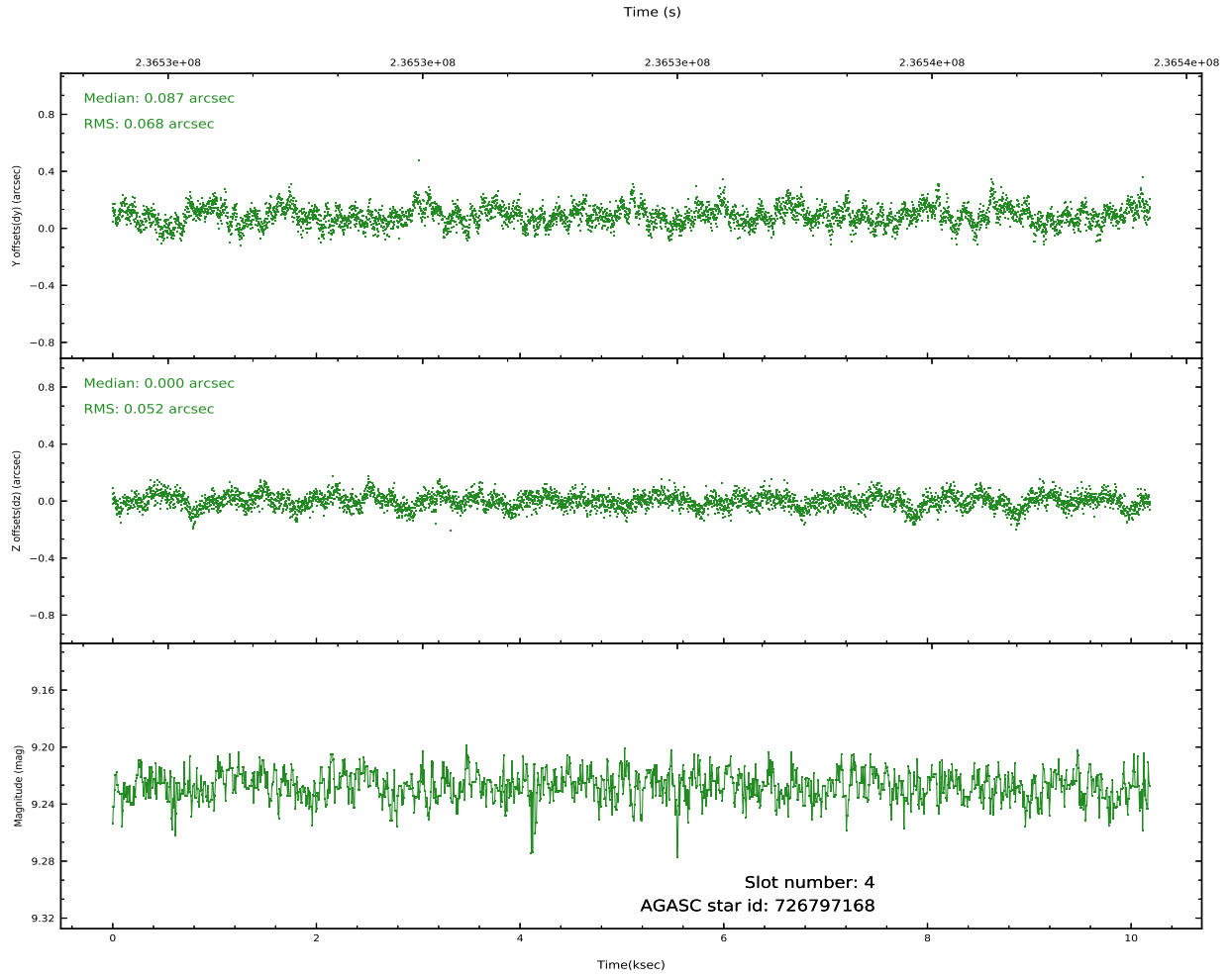
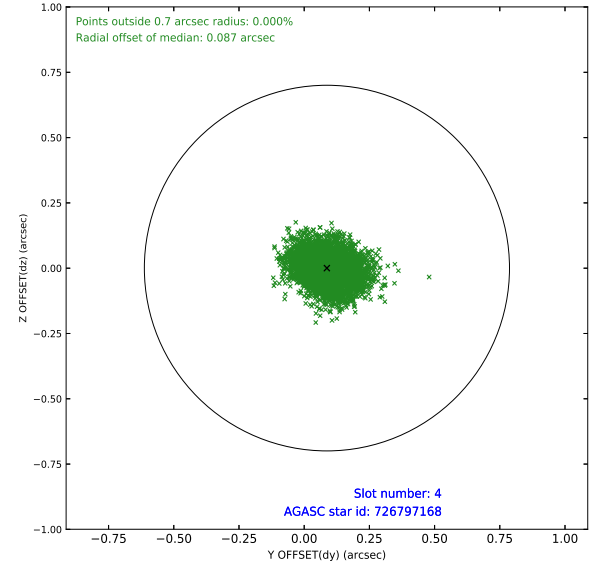
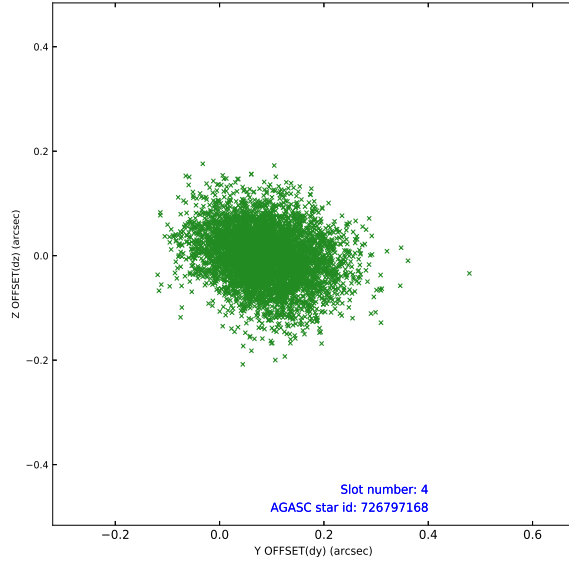
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	2484	1.000	0.038	-0.062	0.007	0.013	0.000000	0.000000	936.90	-1726
1	FID		ACIS-S-5	7.23	2485	1.000	-0.113	0.009	0.006	0.011	0.000000	0.000000	-1811.97	170
2	FID		ACIS-S-6	7.35	2484	1.000	0.053	0.065	0.008	0.012	0.000000	0.000000	401.90	814
3	GUIDE	used	726795656	9.73	4968	1.000	0.065	0.027	0.122	0.199	202.576235	-8.591995	1744.14	-431
4	GUIDE	used	726797168	9.23	4965	1.000	0.087	0.000	0.090	0.151	202.692279	-8.774007	2198.70	195
5	GUIDE	used	726799000	10.11	4961	1.000	0.189	-0.178	0.156	0.271	202.090075	-8.567627	2309.22	-2070
6	GUIDE	used	726800704	9.03	4968	1.000	-0.351	0.051	0.072	0.119	202.986094	-7.587280	-2156.56	-422
7	GUIDE	used	726800992	9.59	4963	1.000	0.005	0.098	0.094	0.152	202.715522	-8.788144	2214.31	291

2.4 Star Slots

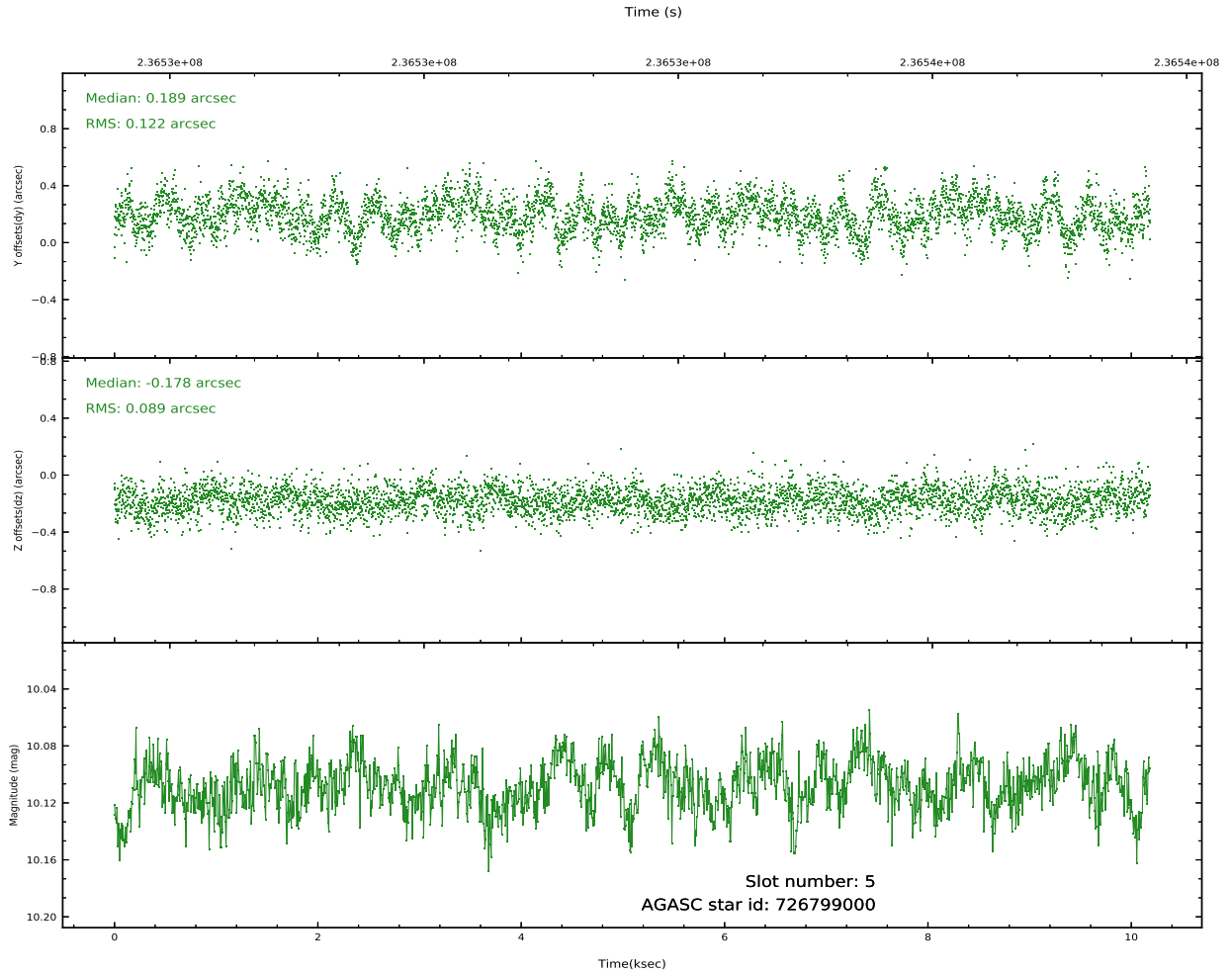
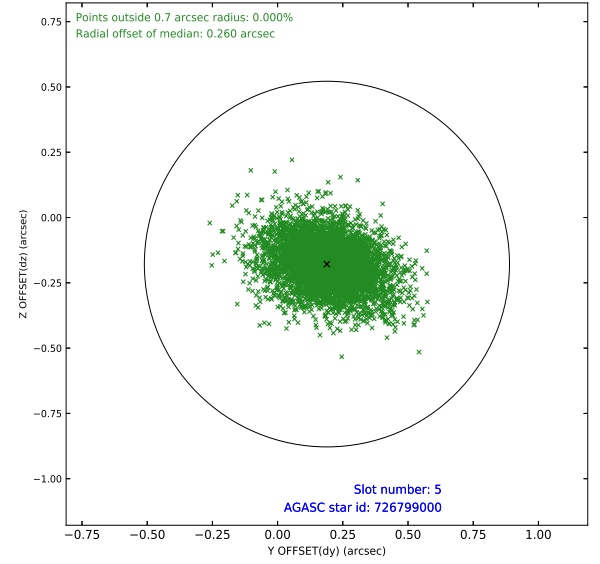
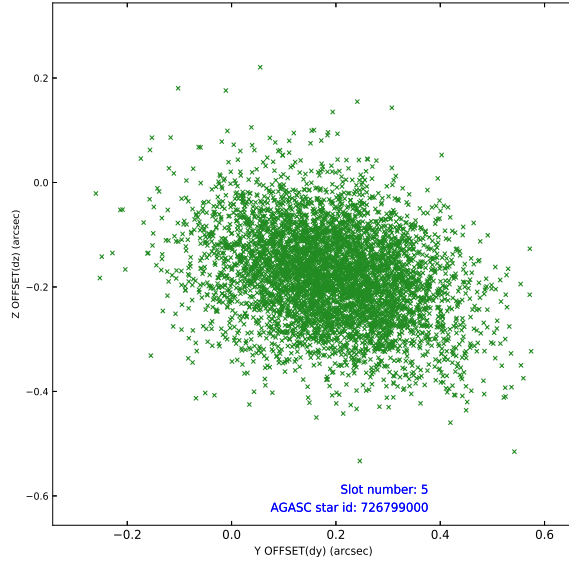
2.4.1 Slot 3



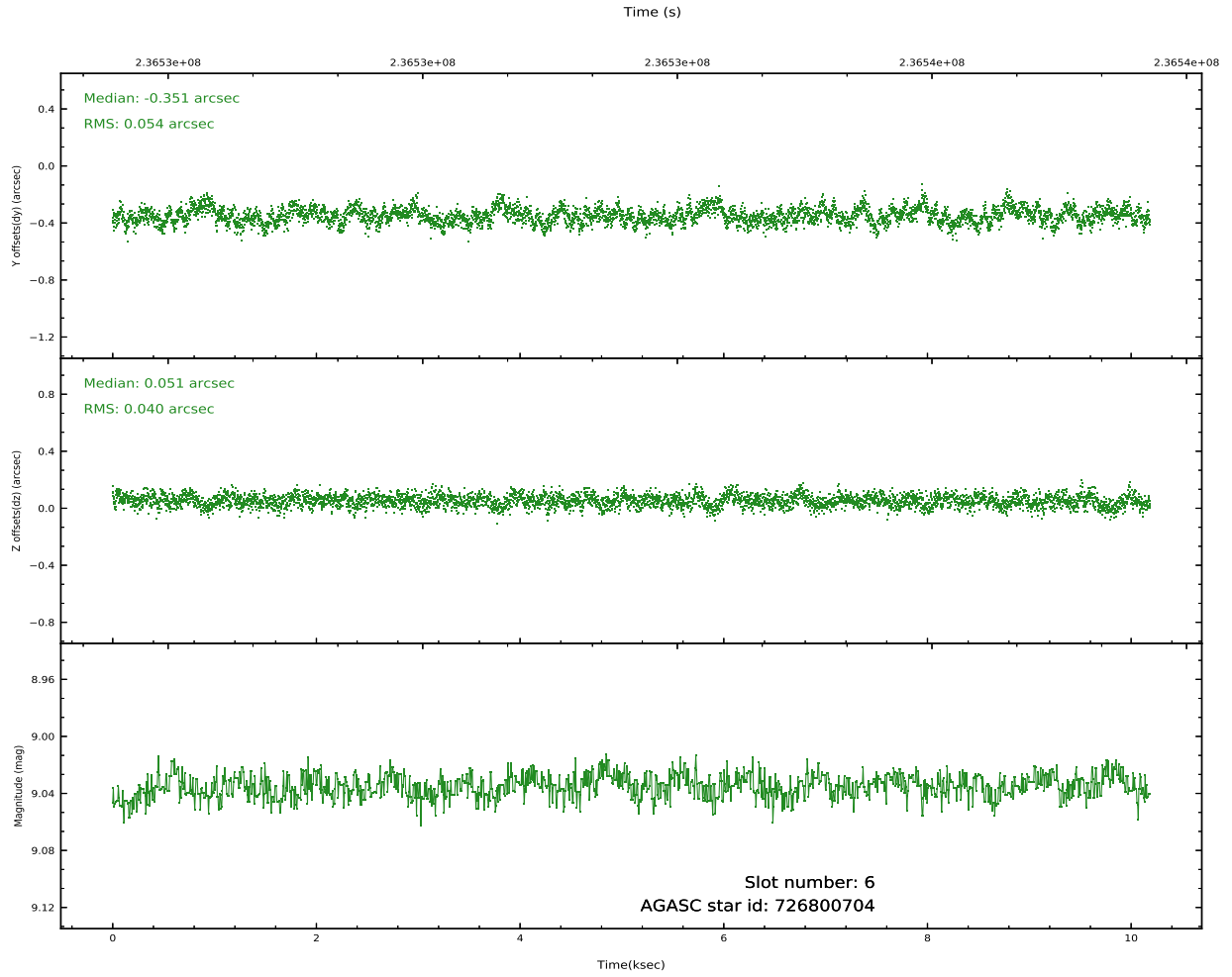
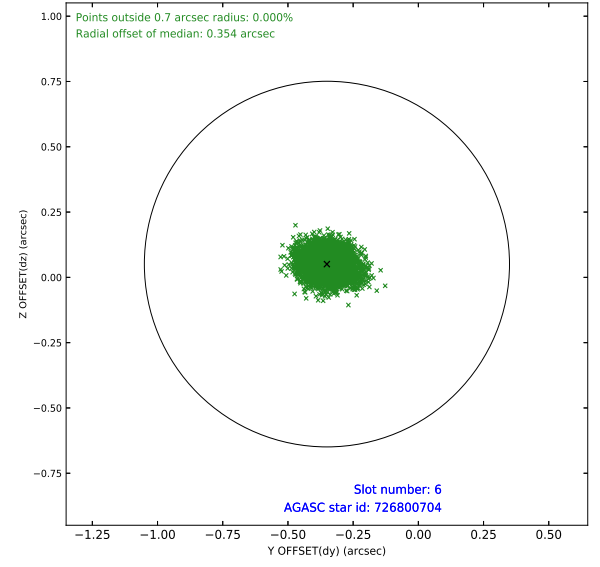
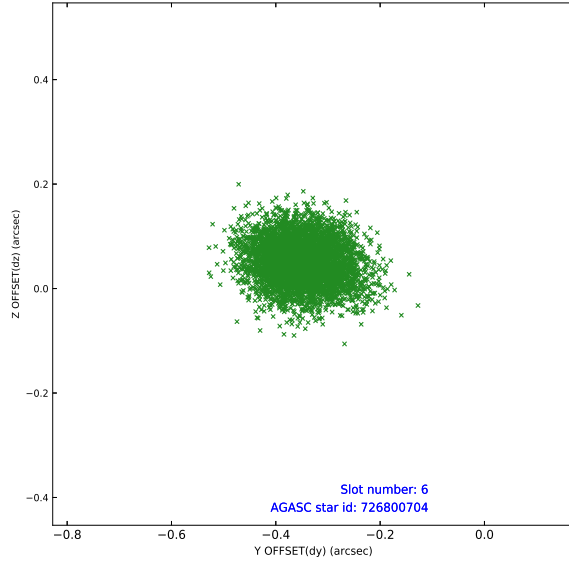
2.4.2 Slot 4



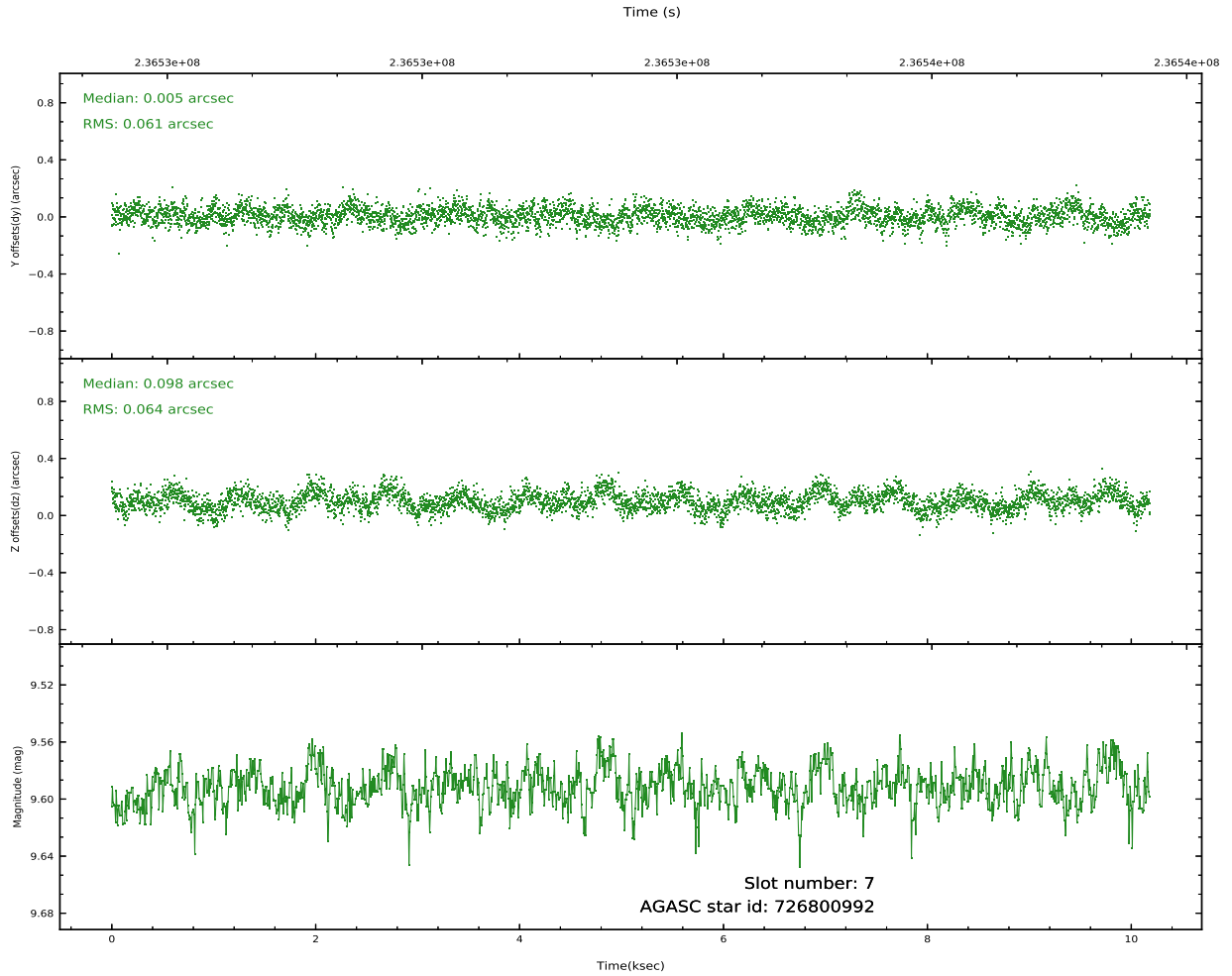
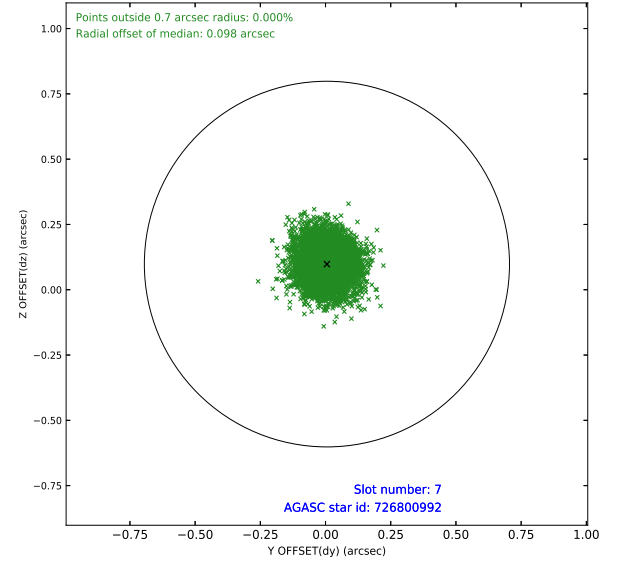
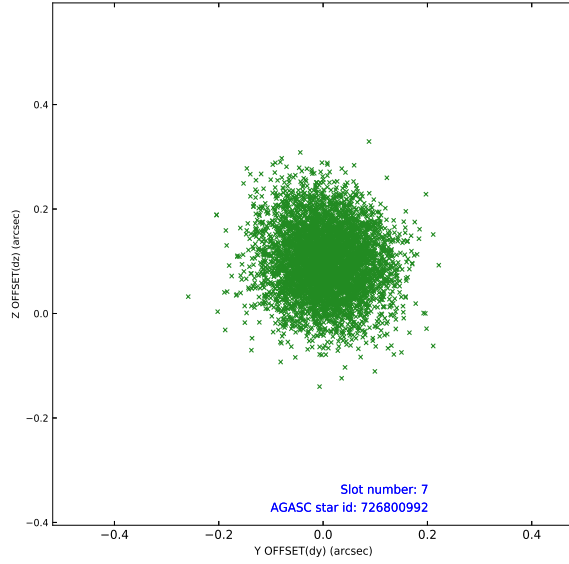
2.4.3 Slot 5



2.4.4 Slot 6

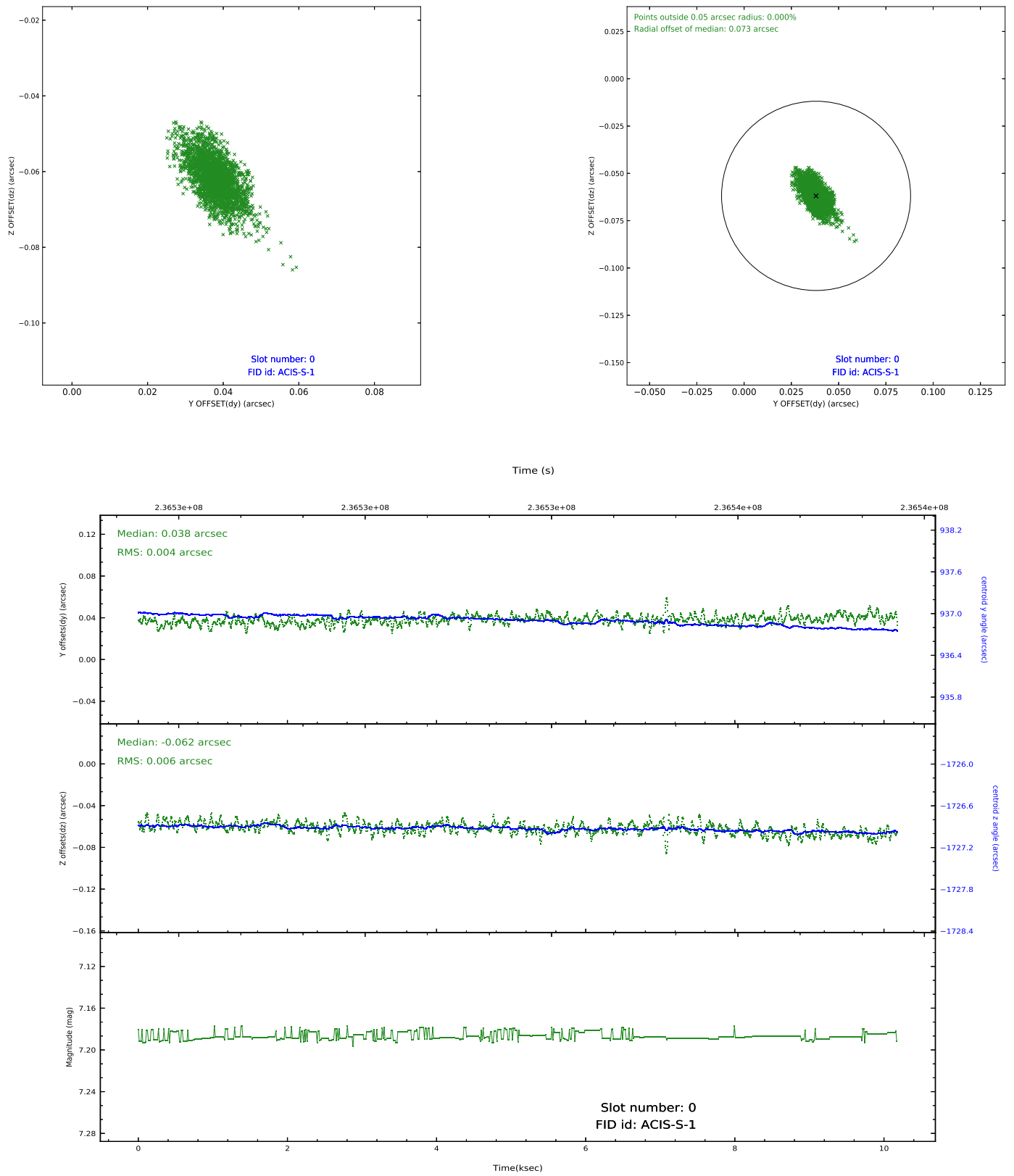


2.4.5 Slot 7

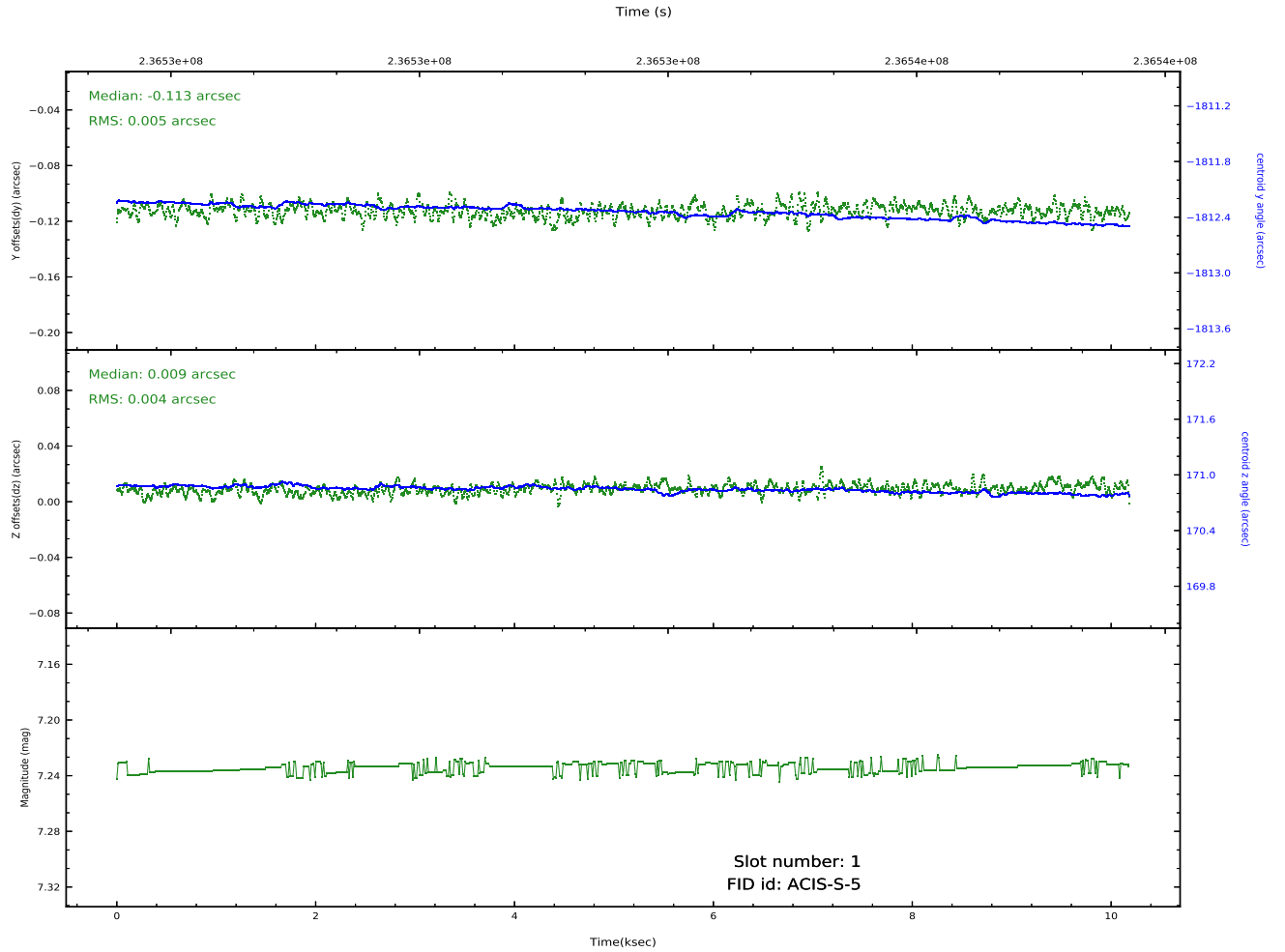
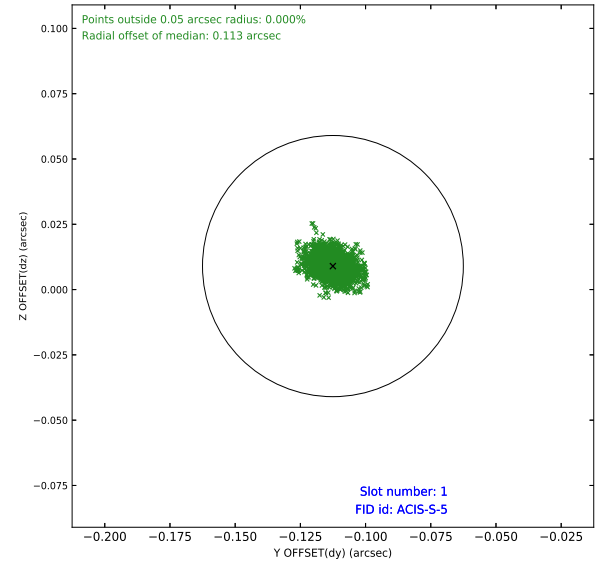
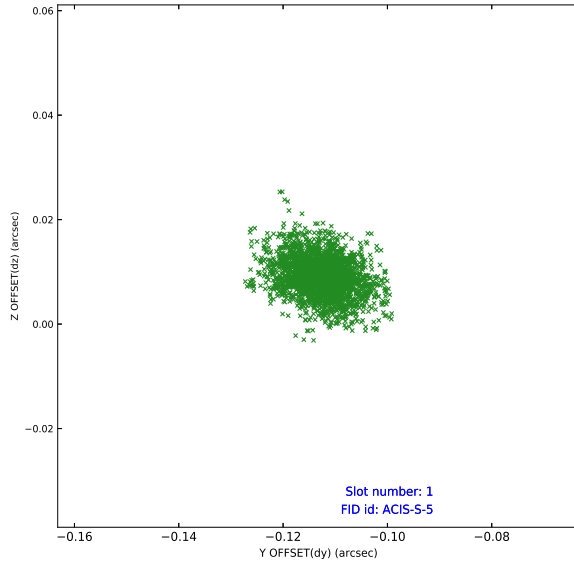


2.5 FID Slots

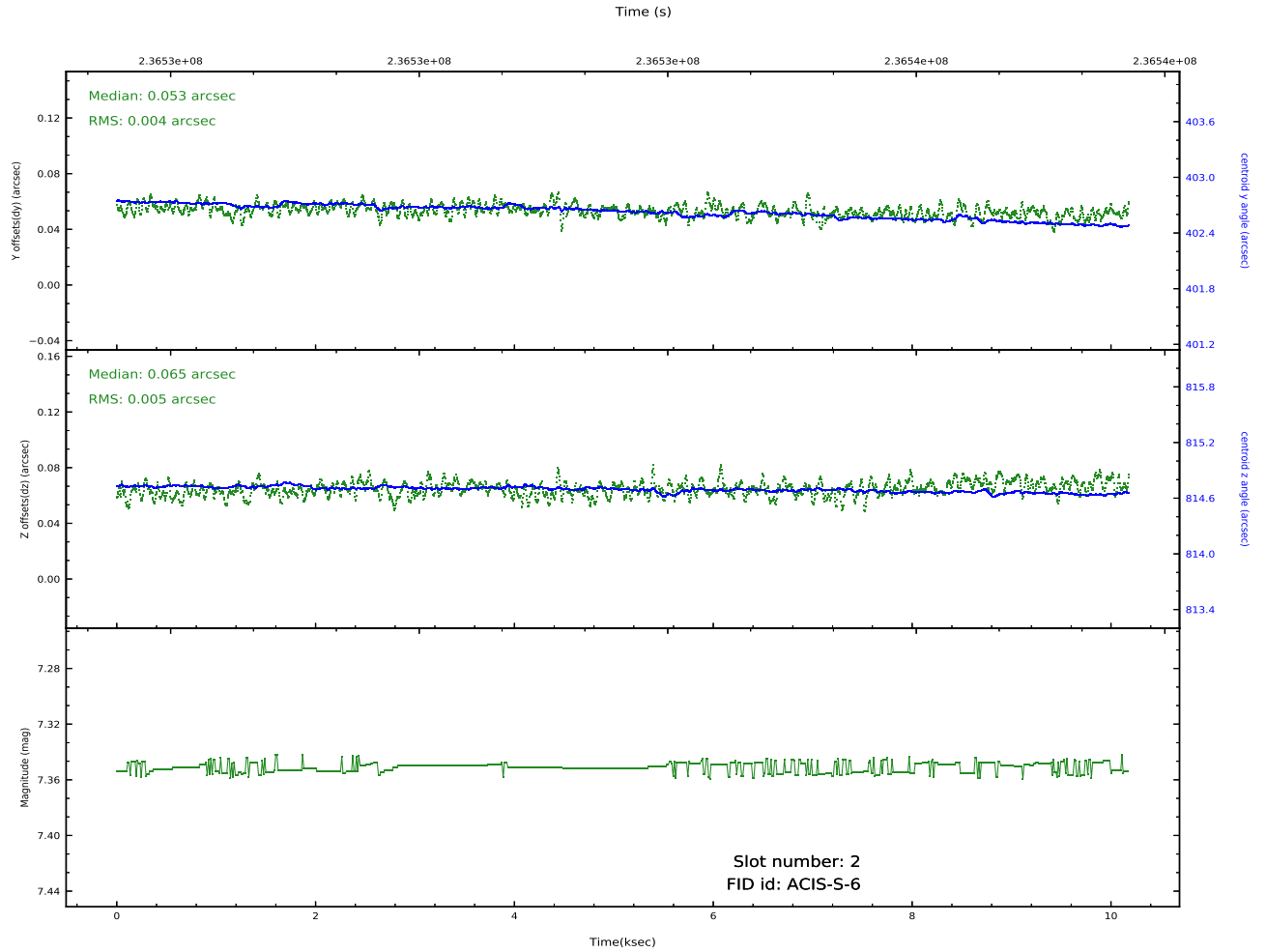
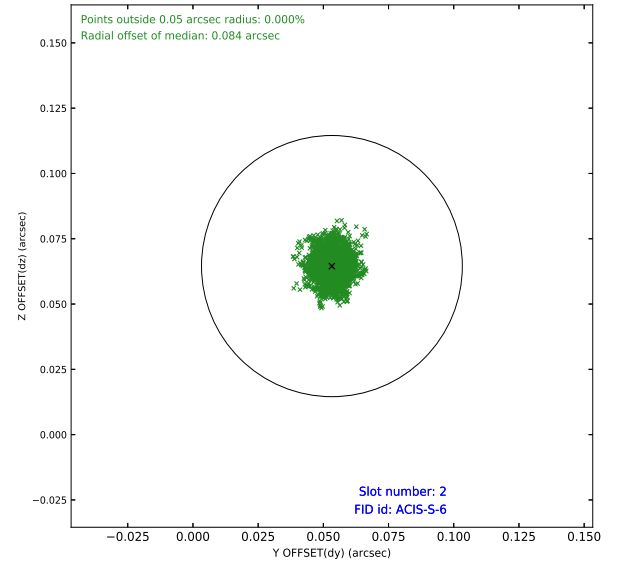
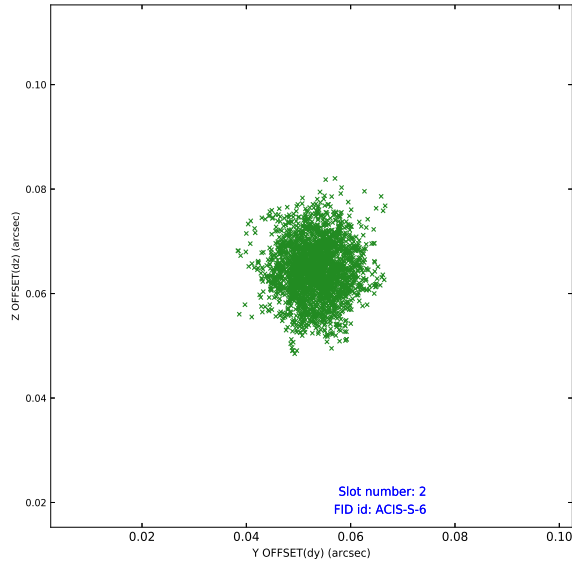
2.5.1 Slot 0



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)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.18239

A.2 Comments

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.