

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20351 - L2 Version 2
Chandra X-Ray Center

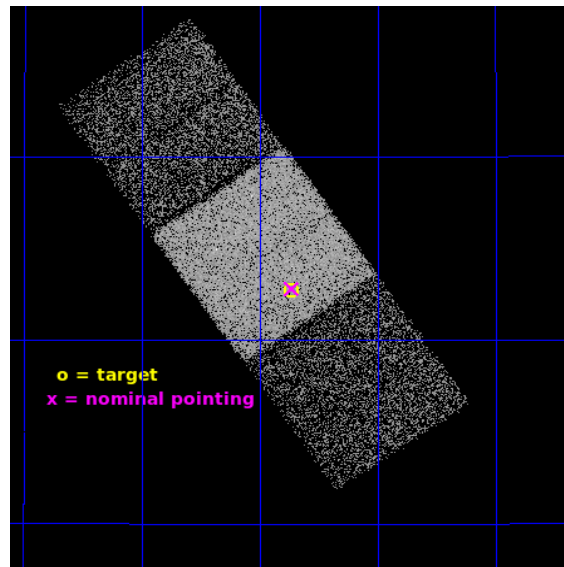
L2 Processing Date : Oct 26 2020

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1 Front

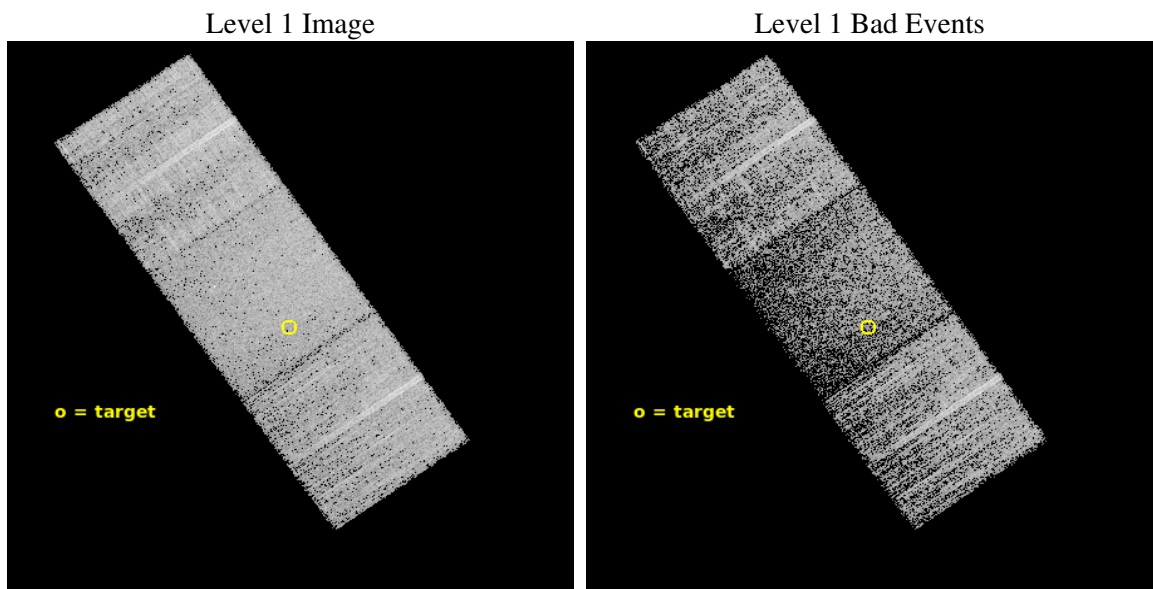
seq_num	601417	Sequence number
obs_id	20351	Observation id
title	X-ray Ionized Nebulae in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J144852.02+344242.9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	222.216667	Observer's specified target RA [deg]
dec_targ	34.711944	Observer's specified target Dec [deg]
ra_nom	222.21601389761	Nominal RA [deg]
dec_nom	34.713403347693	Nominal Dec [deg]
roll_nom	235.14308553363	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10071.900077581	Sum of GTIs [s]
livetime	9940.3032882428	Livetime [s]
ontime6	10071.900077581	Sum of GTIs [s]
ontime7	10071.900077581	Sum of GTIs [s]
ontime8	10071.900077581	Sum of GTIs [s]
l2events	50510	Number of level 2 events



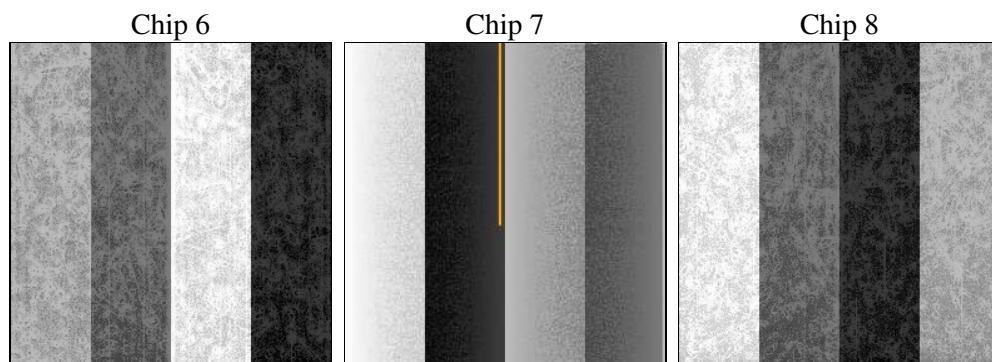
2 OBI

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	10.9.2	Processing system revision	ontime	10071.900077581	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	10071.900077581	Sum of GTIs [s]
date	2020-10-26T08:26:58	Date and time of file creation	ontime7	10071.900077581	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	10071.900077581	Sum of GTIs [s]
			l1events	243560	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	73188	78828	91544
rejected events	65269	41550	66815
rejected %	89%	52%	72%

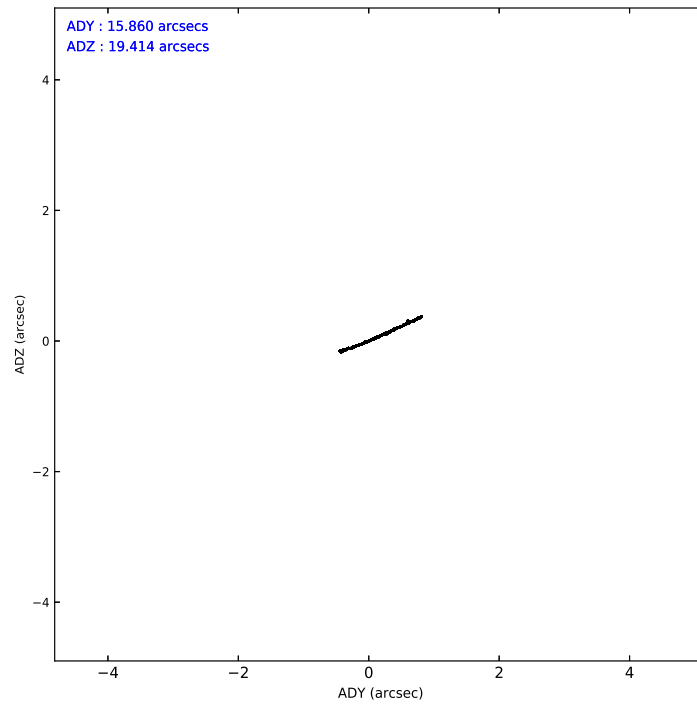
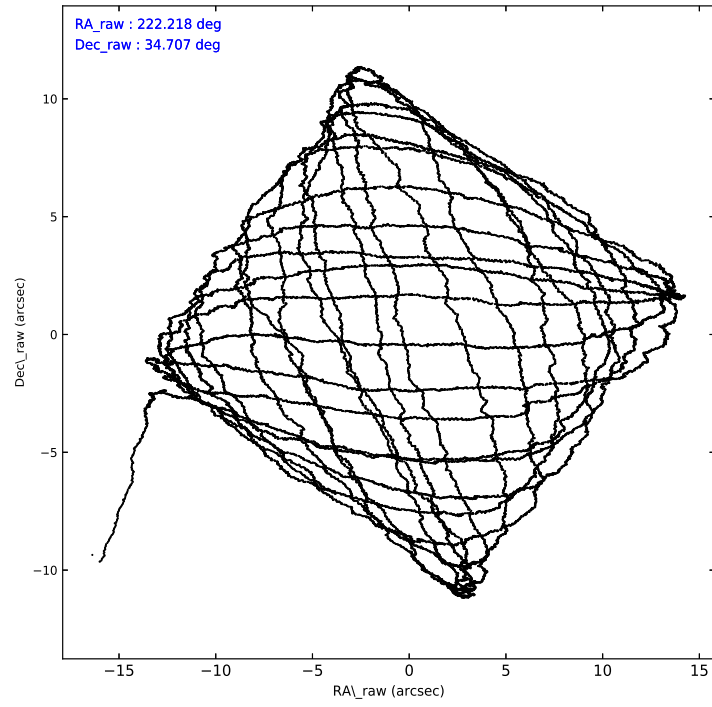
	ccd 6	ccd 7	ccd 8
grade 0 events	2544	3517	6887
	3%	4%	7%
grade 1 events	38	125	72
	0%	0%	0%
grade 2 events	2038	8203	6097
	2%	10%	6%
grade 3 events	731	3070	2568
	0%	3%	2%
grade 4 events	761	2997	2388
	1%	3%	2%
grade 5 events	2662	7916	4498
	3%	10%	4%
grade 6 events	1851	19501	6791
	2%	24%	7%
grade 7 events	62563	33499	62243
	85%	42%	67%

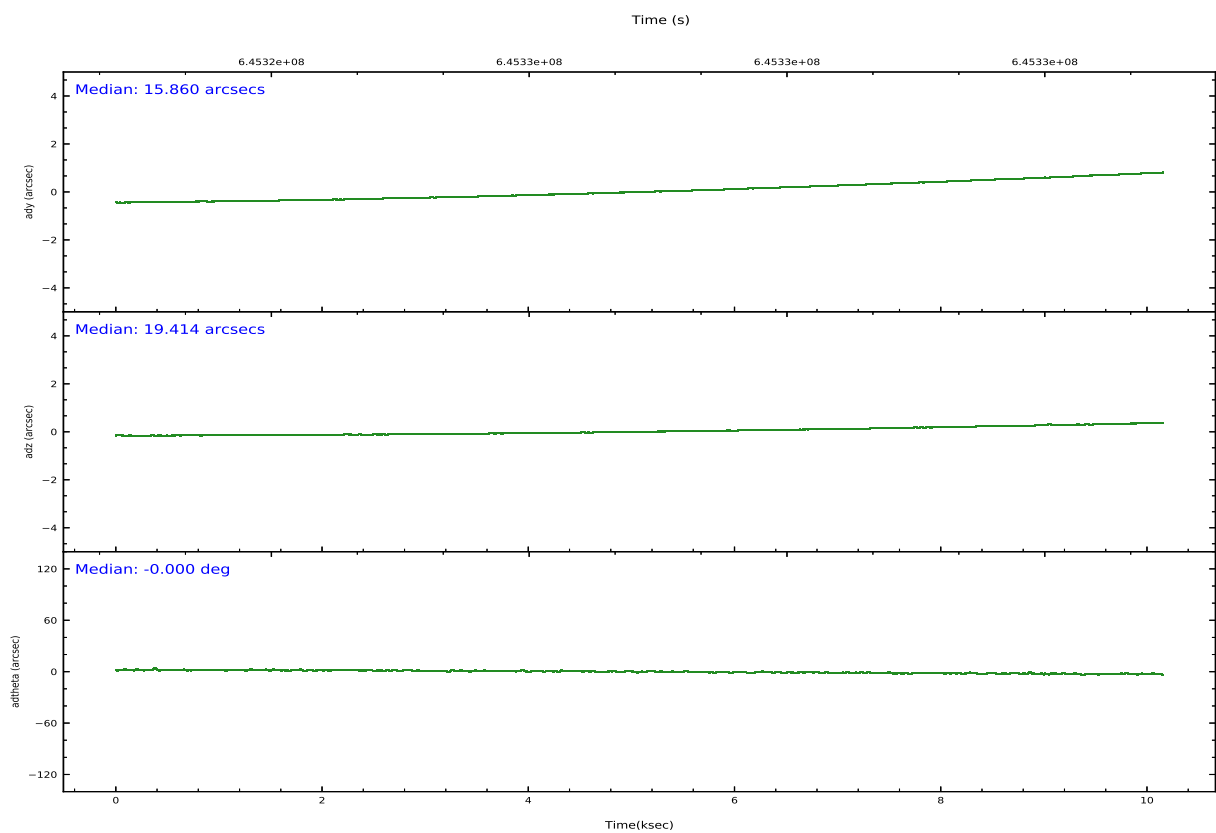
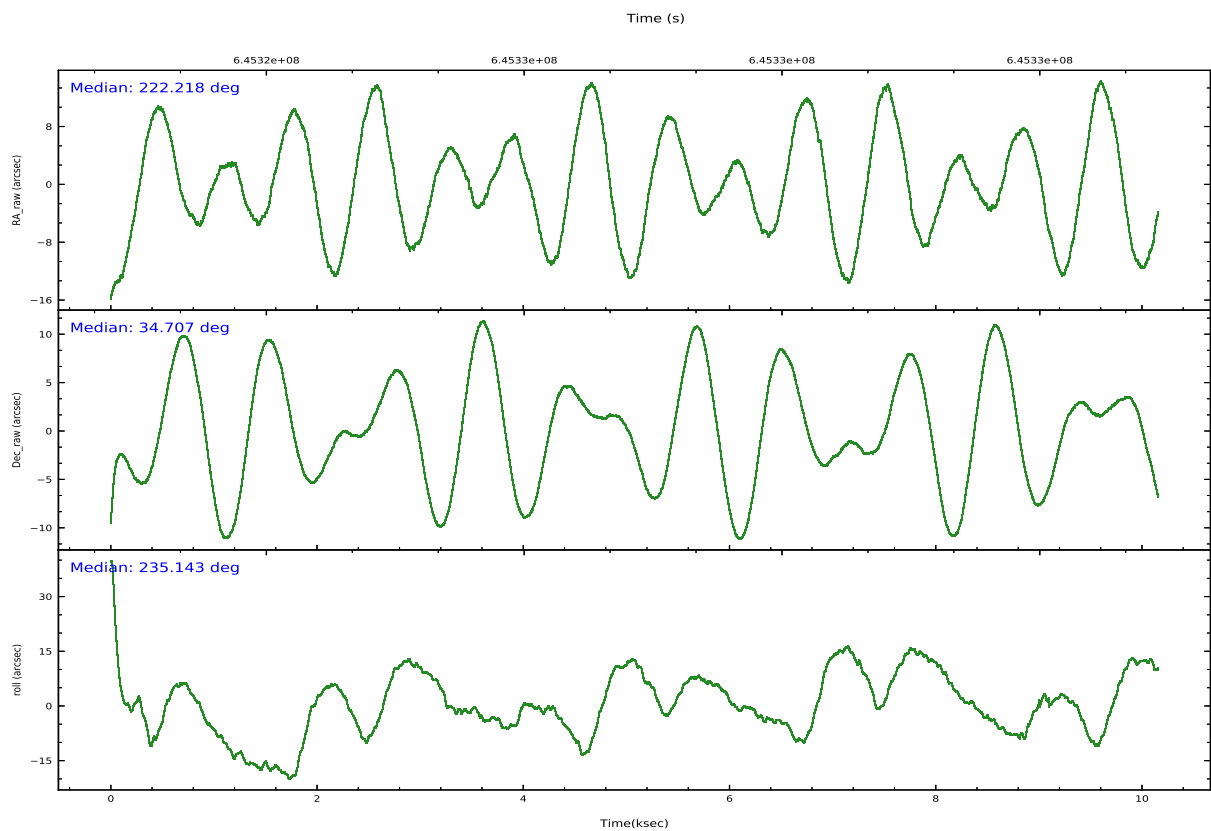
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	222.220761	222.21601389761
[deg] Pointing Dec	34.733713	34.713403347693
[deg] Pointing Roll	234.997662	235.14308553363
[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)	645323648.184000	645322310.98792
Observation start date	2018-06-14T00:32:59	2018-06-14T00:11:50
[s] Observation end time (MET)	645333648.184000	645334364.9886301
Observation end date	2018-06-14T03:19:39	2018-06-14T03:32:44
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	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
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	3.1

2.3 Aspect



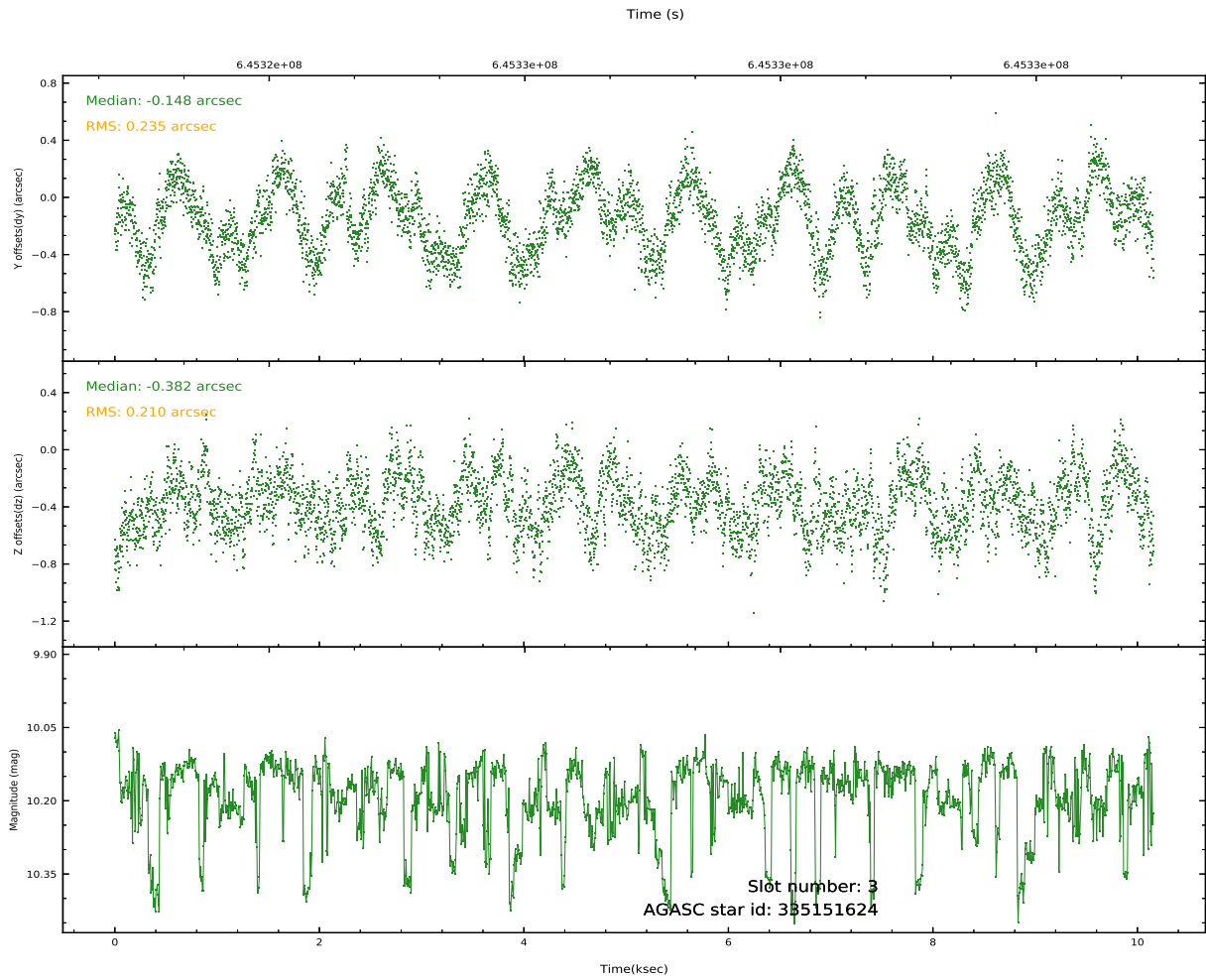
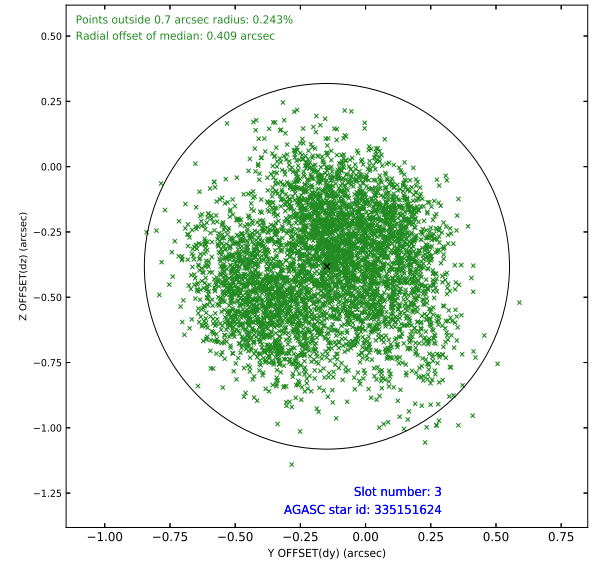
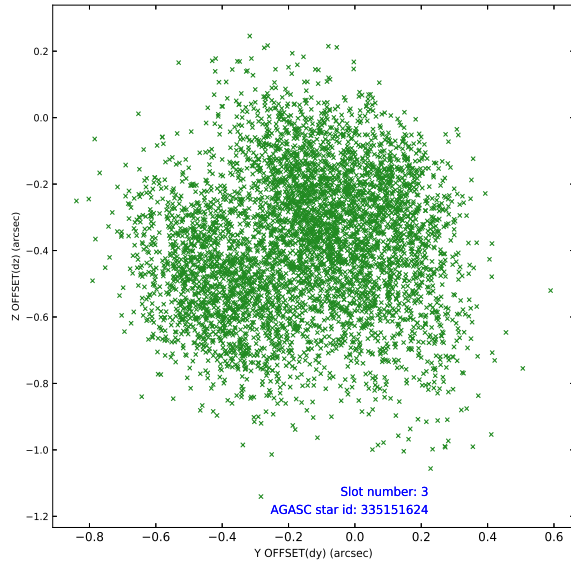


Slot Statistics

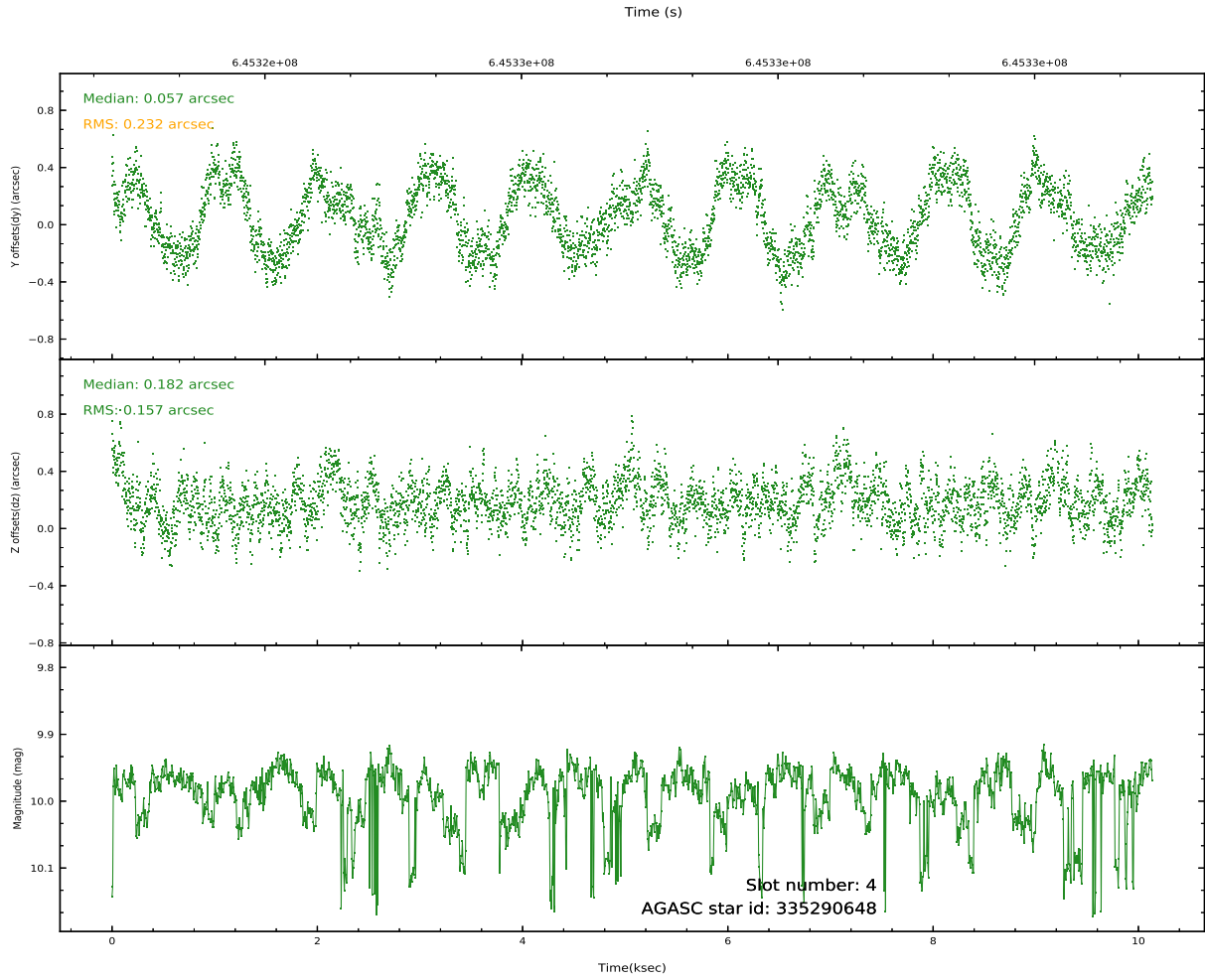
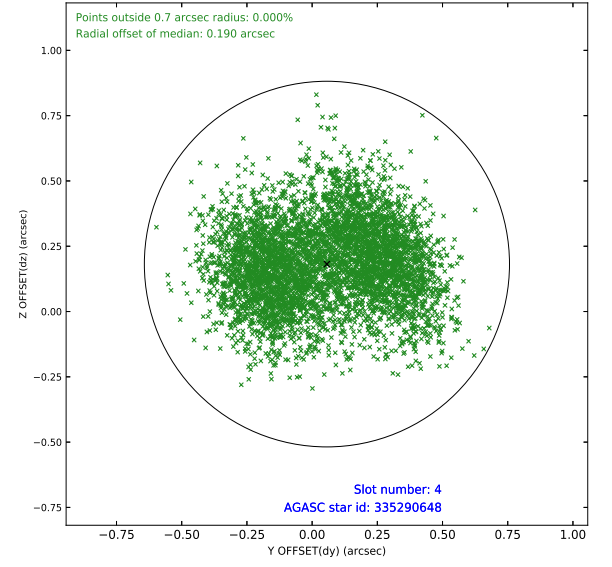
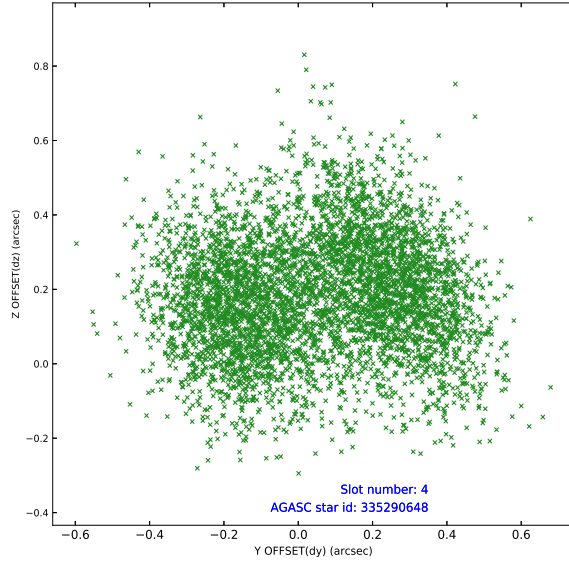
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	2476	1.000	-0.035	-0.015	0.007	0.014	0.000000	0.000000	-769.07	-1740
1	FID		ACIS-S-4	7.22	2478	1.000	0.122	-0.015	0.009	0.016	0.000000	0.000000	2144.26	166
2	FID		ACIS-S-6	7.37	2478	1.000	-0.115	0.038	0.010	0.016	0.000000	0.000000	393.67	804
3	GUIDE	used	335151624	10.18	4938	1.000	-0.148	-0.382	0.349	0.506	221.571558	34.873382	683.26	-1862
4	GUIDE	used	335290648	9.98	4919	1.000	0.057	0.182	0.308	0.449	222.333057	33.901246	2262.99	1994
5	GUIDE	used	335677000	8.66	4954	1.000	-0.047	0.162	0.156	0.261	222.355634	35.192008	-1577.63	-620
6	GUIDE	used	335287688	9.28	4954	1.000	-0.162	0.008	0.186	0.297	222.902069	34.389240	-151.22	2365
7	GUIDE	used	335159568	9.75	4944	1.000	0.295	0.033	0.220	0.380	221.671322	34.243042	2381.55	-328

2.4 Star Slots

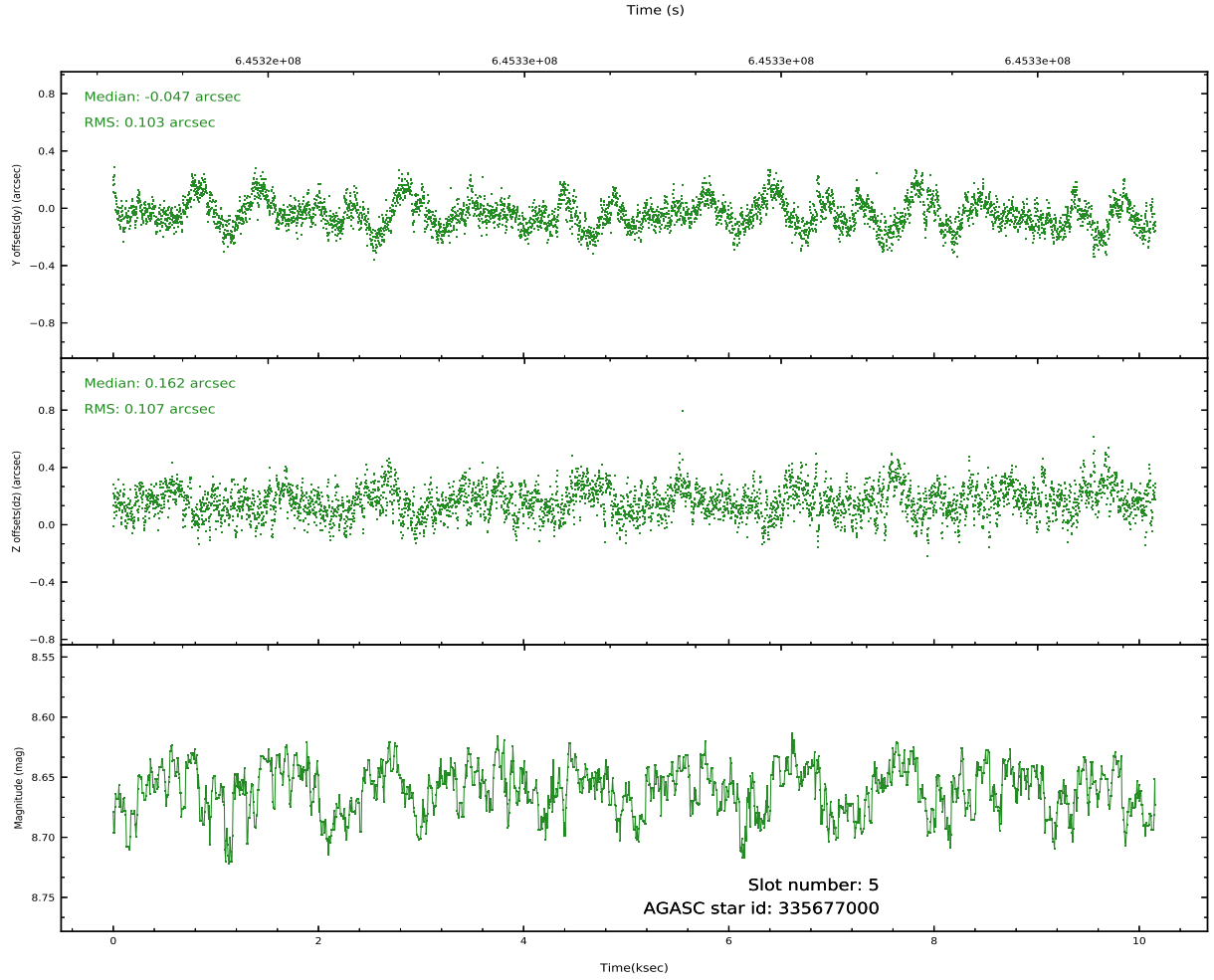
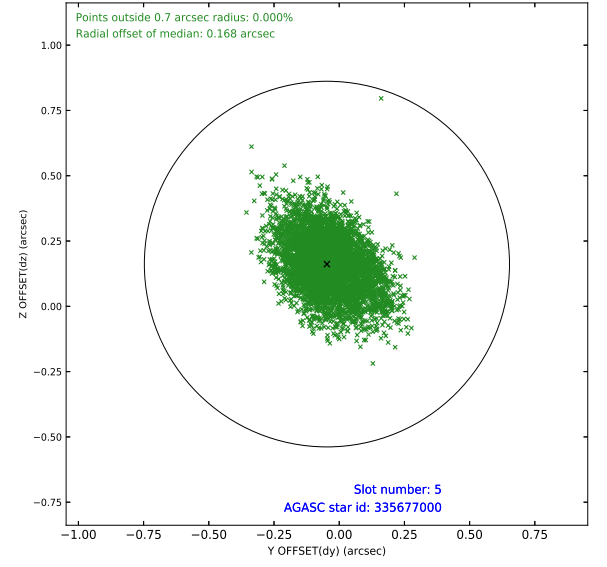
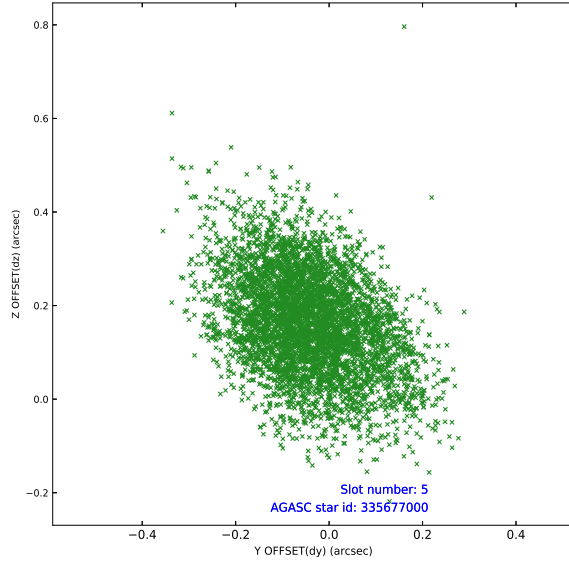
2.4.1 Slot 3



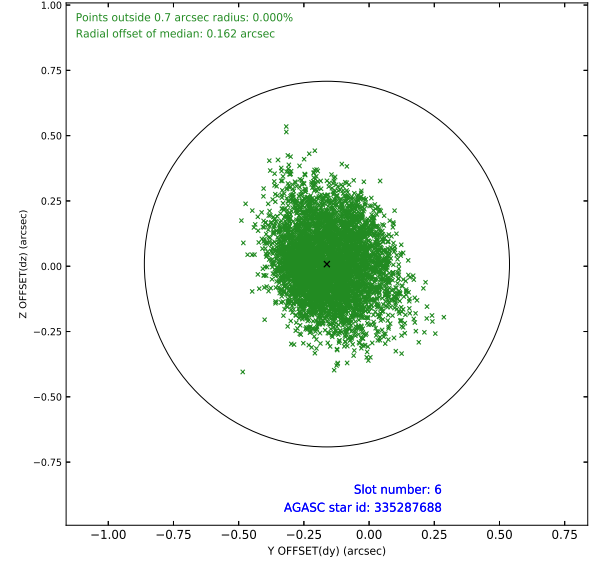
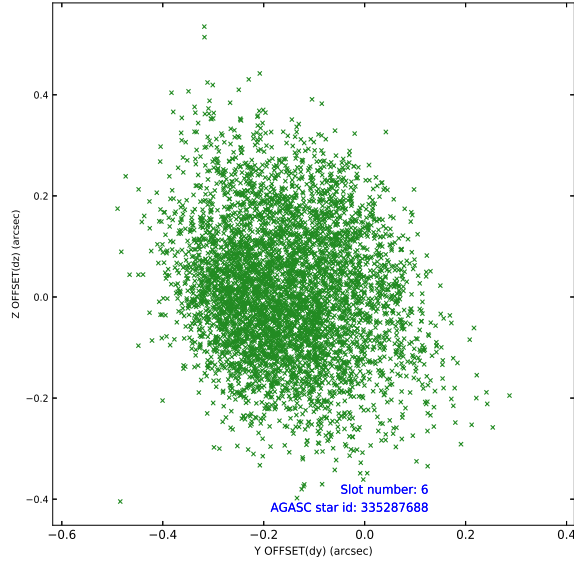
2.4.2 Slot 4



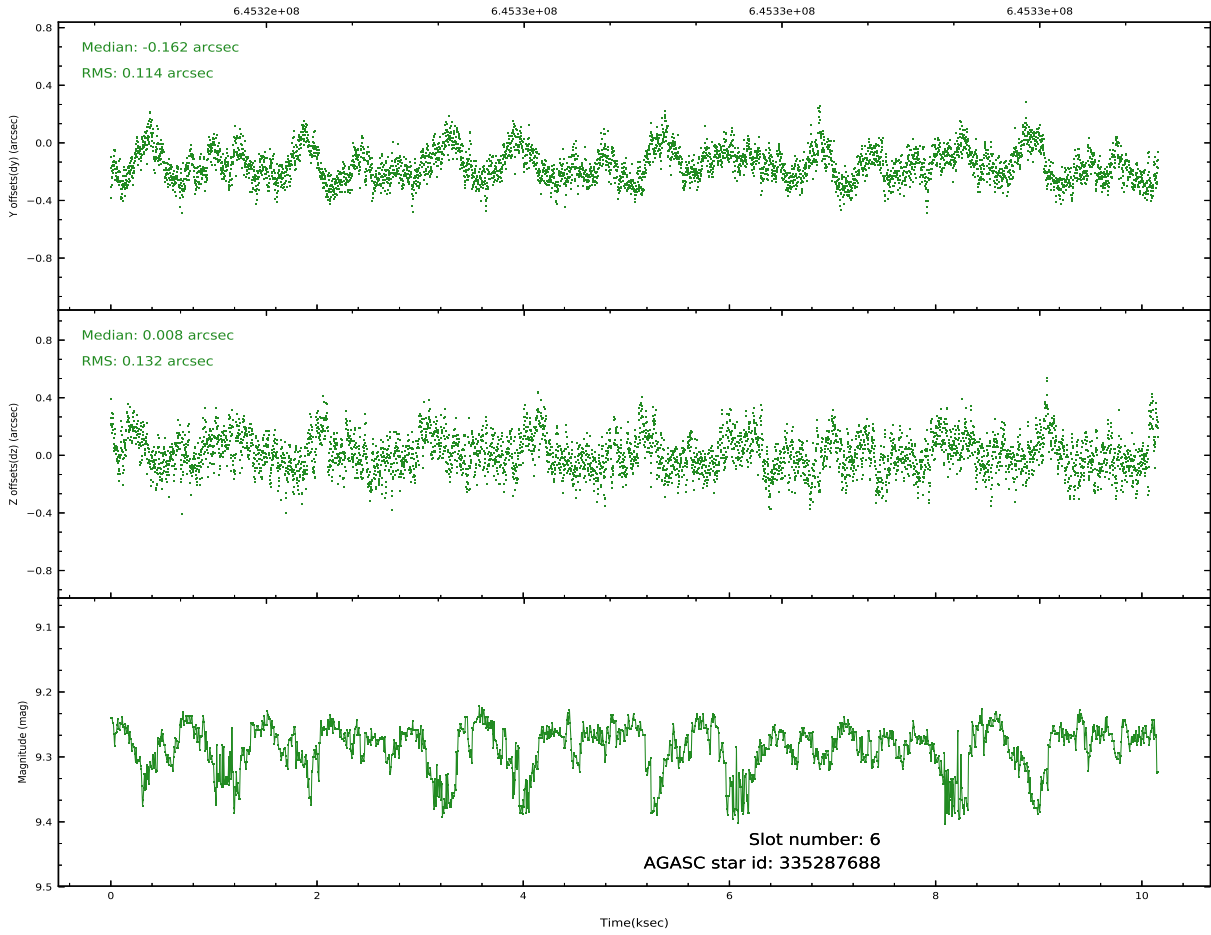
2.4.3 Slot 5



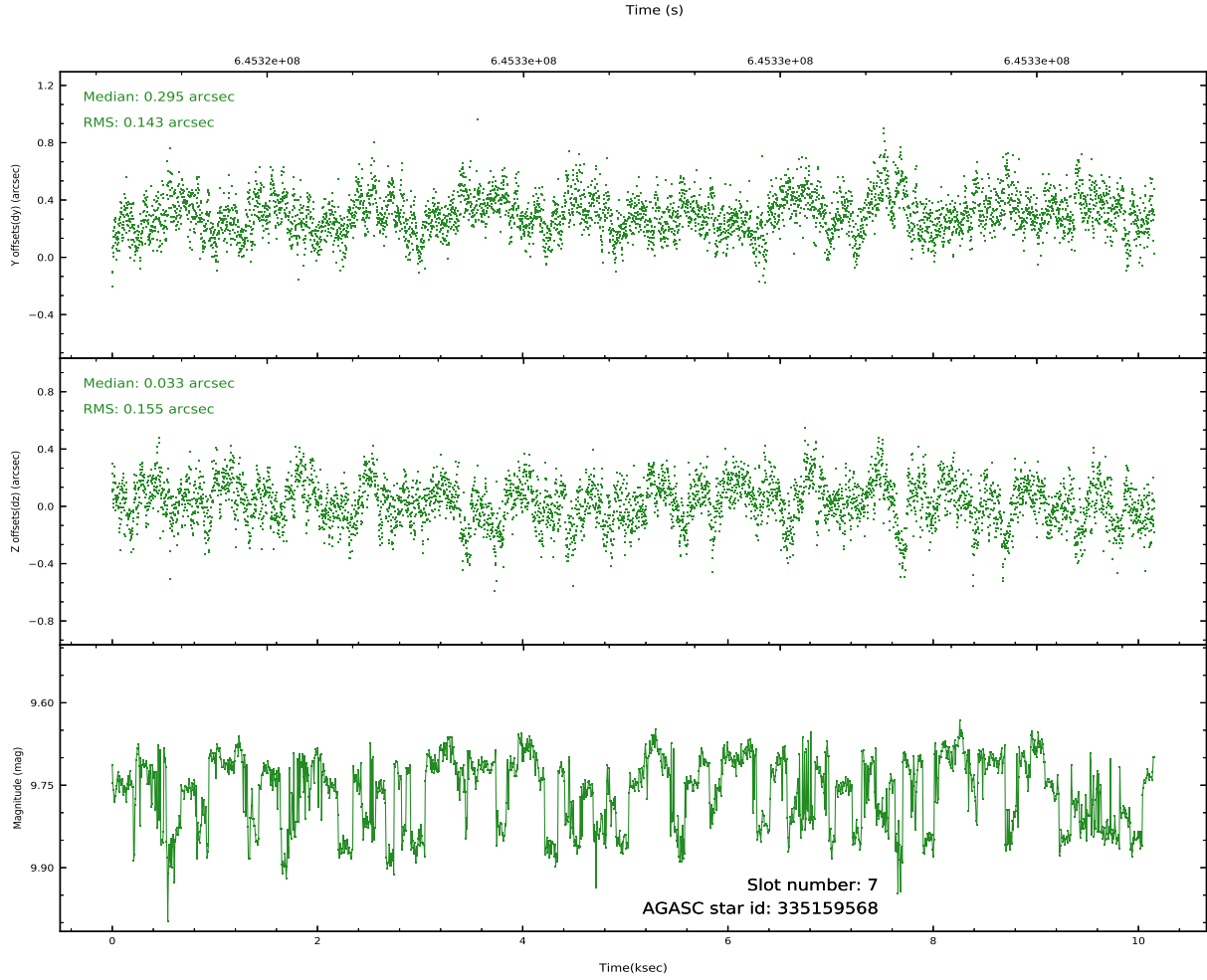
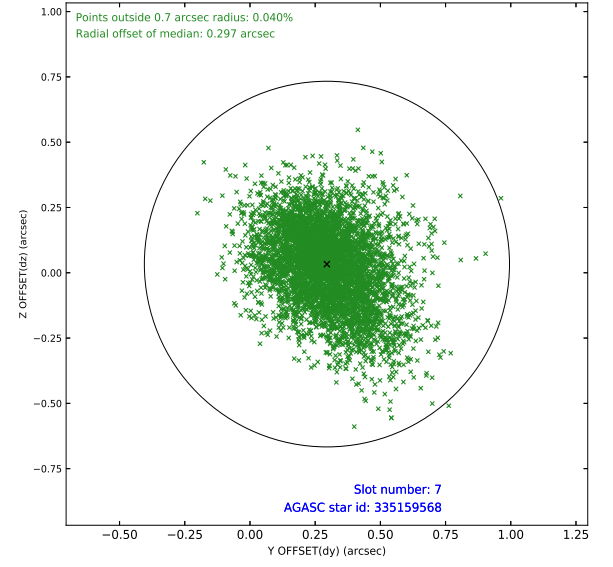
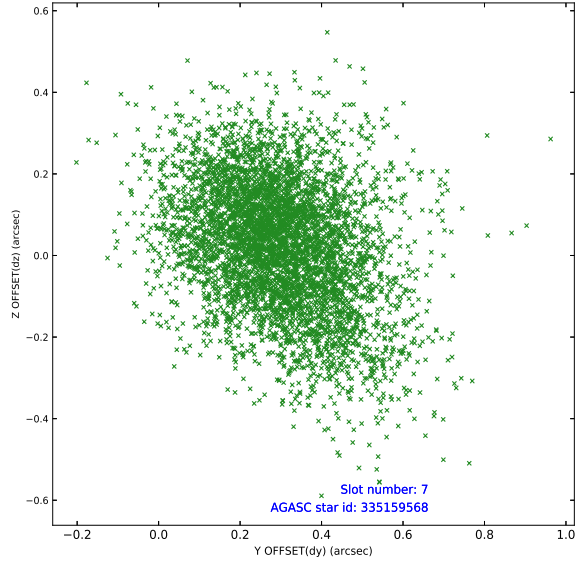
2.4.4 Slot 6



Time (s)

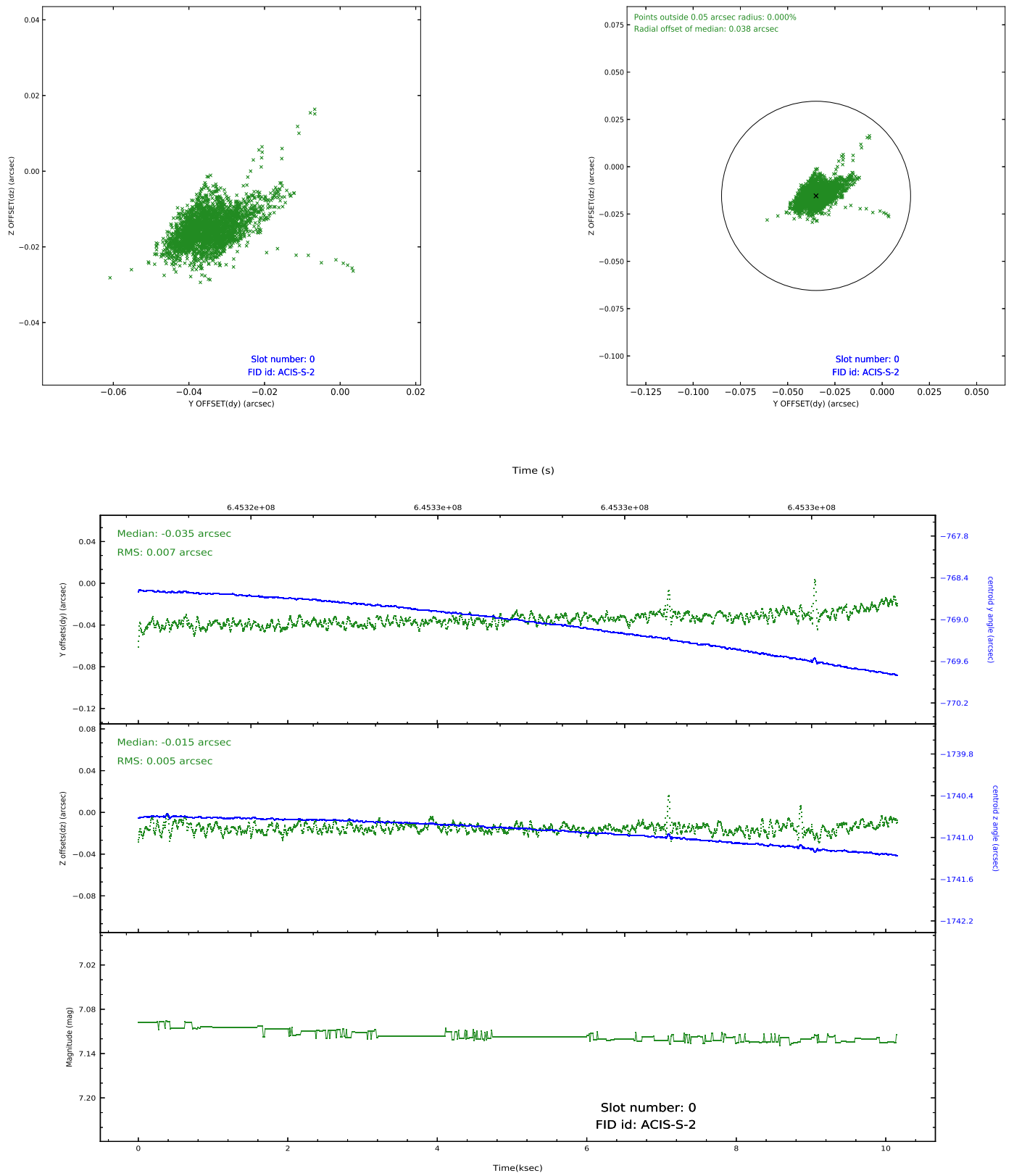


2.4.5 Slot 7

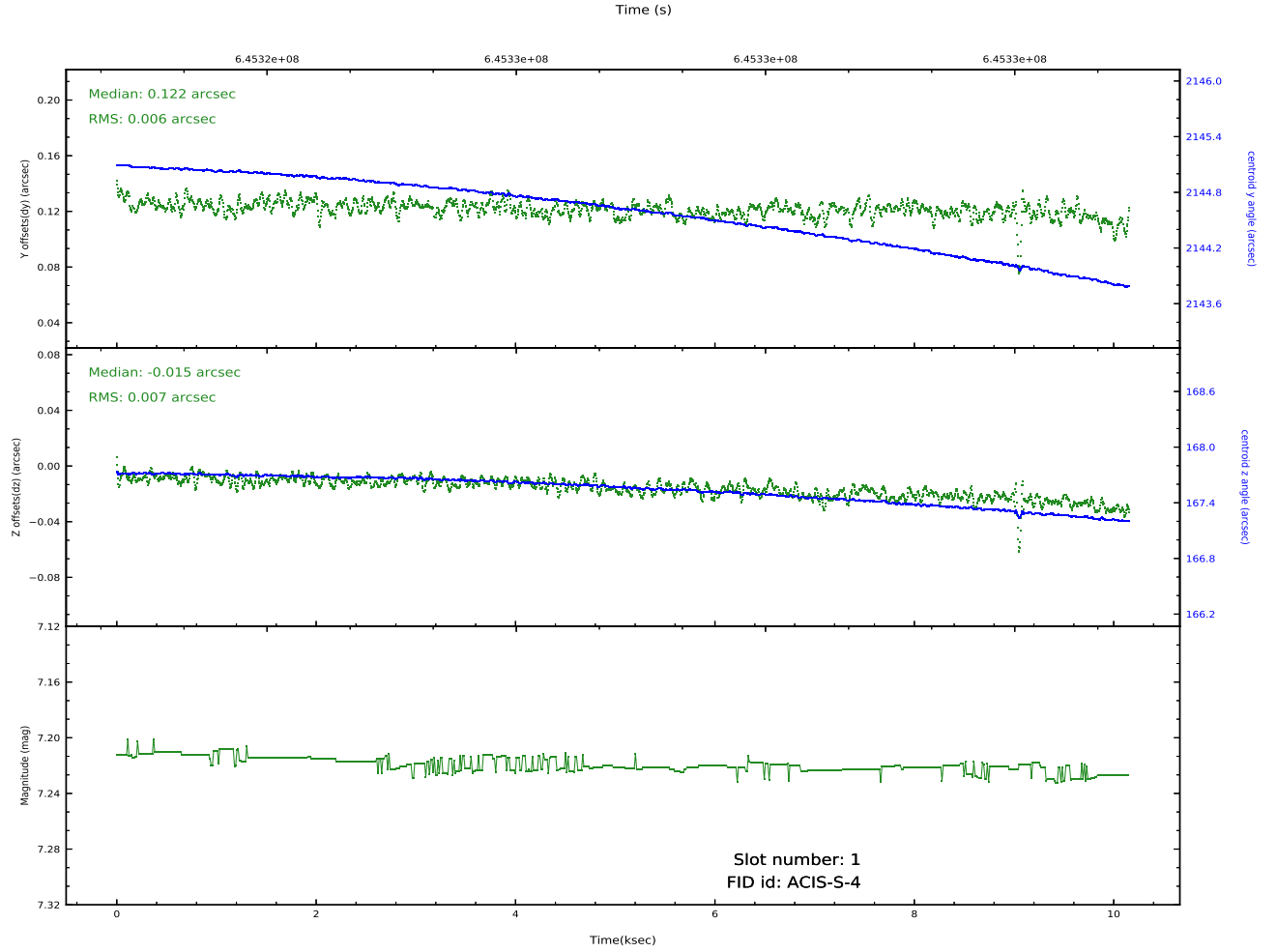
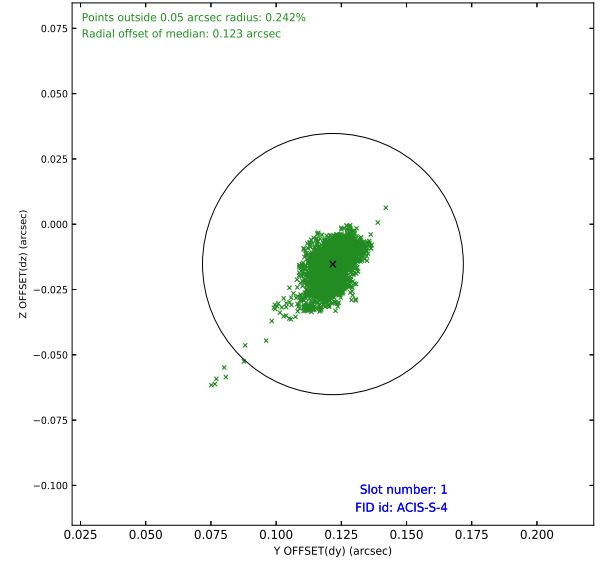
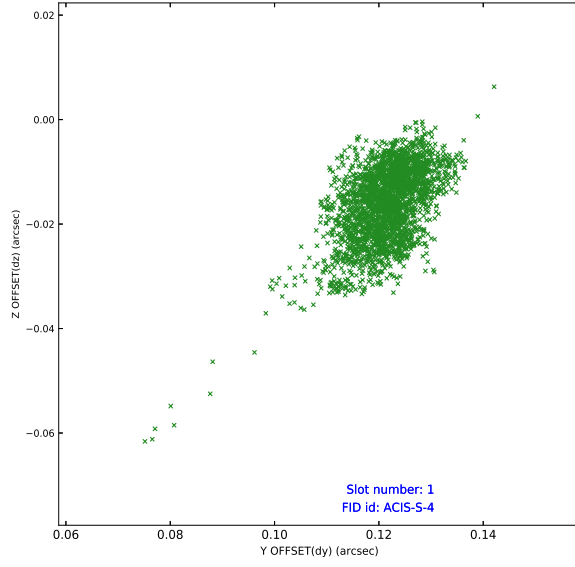


2.5 FID Slots

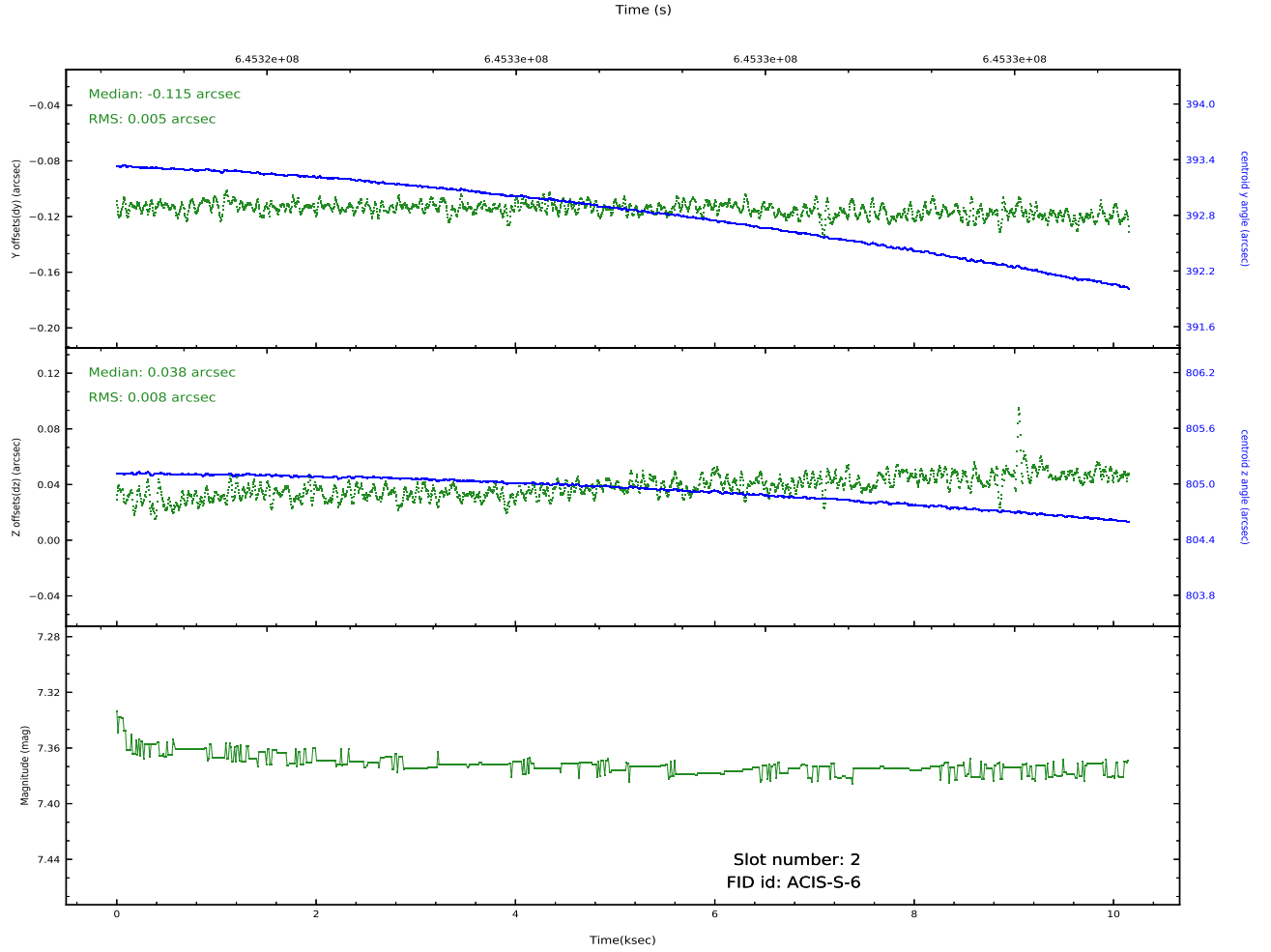
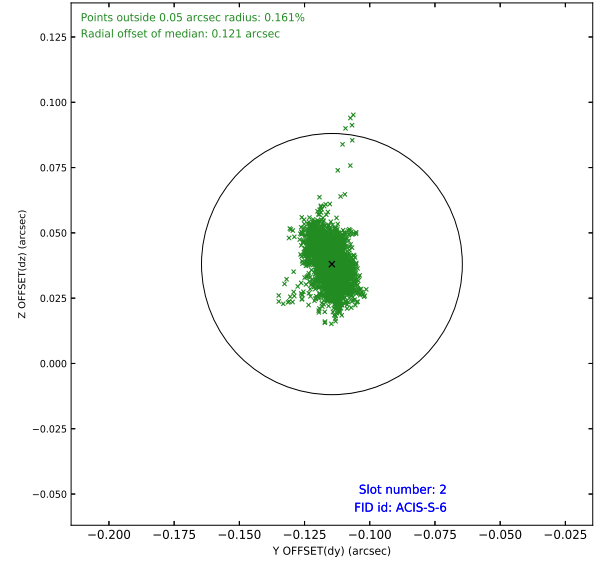
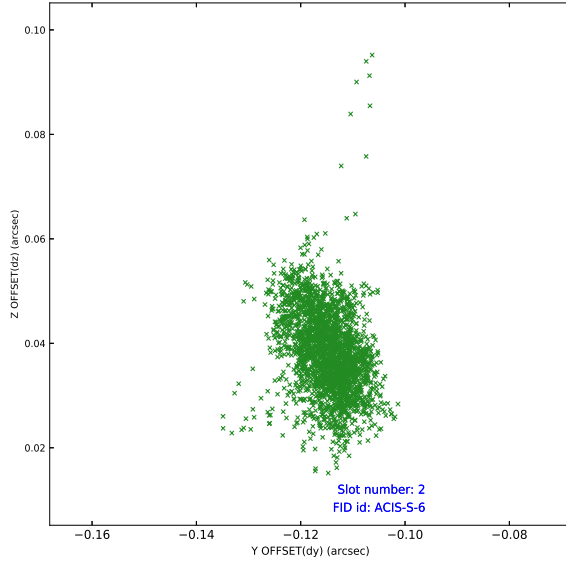
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.071900077581

A.2 Comments