

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22881 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Oct 28 2019

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

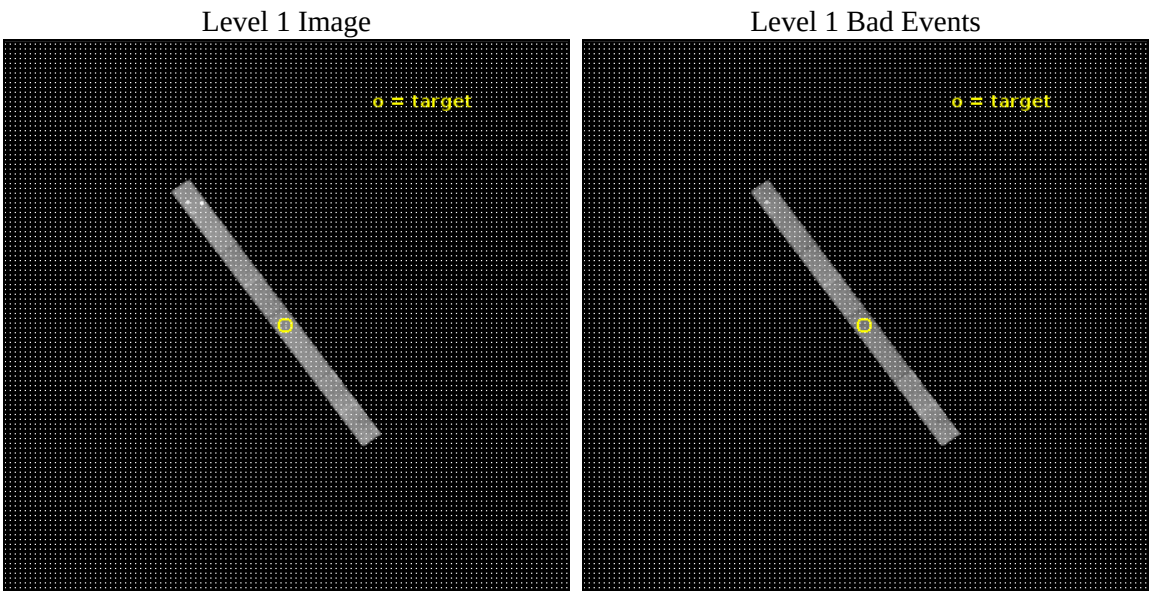
seq_num	703940	Sequence number
obs_id	22881	Observation id
title	Mapping NGC 1194: a Compton Thick AGN in the nearby Universe	Propo
observer	Tracey Turner	Principal investigator
object	NGC 1194	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.954583	Observer's specified target RA [deg]
dec_targ	-1.103608	Observer's specified target Dec [deg]
ra_nom	45.952723505751	Nominal RA [deg]
dec_nom	-1.1002192282329	Nominal Dec [deg]
roll_nom	54.156609935963	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21081.816504836	Sum of GTIs [s]
livetime	20250.726681814	Livetime [s]
ontime5	21081.775464892	Sum of GTIs [s]
ontime6	21081.734424829	Sum of GTIs [s]
ontime7	21081.816504836	Sum of GTIs [s]
ontime8	21078.570244789	Sum of GTIs [s]
l2events	64816	Number of level 2 events



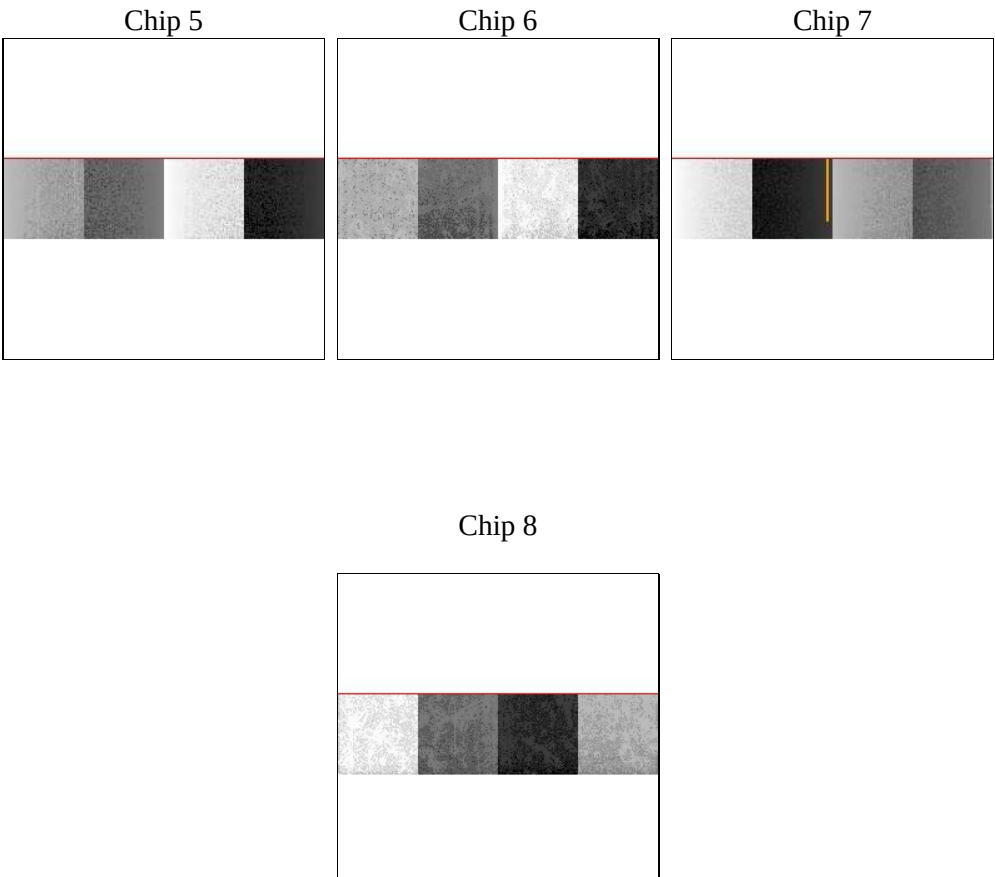
2 OBI

2.1 OBI

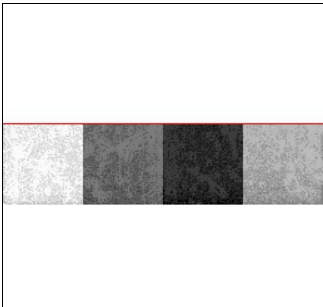
2.1.1 Images



2.1.2 Bias



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	21081.816504836	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime5	21081.775464892	Sum of GTIs [s]
date	2019-10-28T05:30:53	Date and time of file creation	ontime6	21081.734424829	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	21081.816504836	Sum of GTIs [s]
			ontime8	21078.570244789	Sum of GTIs [s]
			l1events	263038	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	95948	48349	55566	63175
rejected events	39670	43011	30145	48279
rejected %	41%	88%	54%	76%

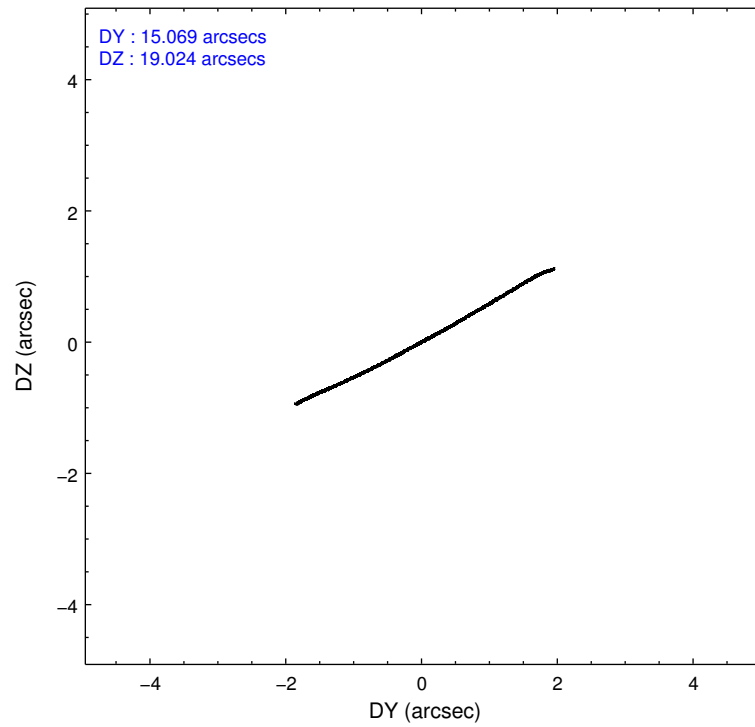
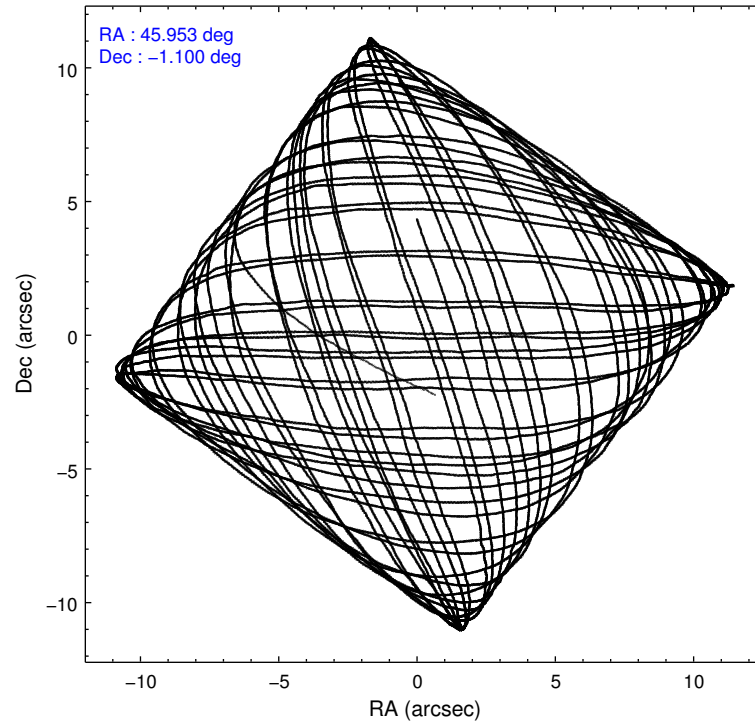
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	19574	1484	2483	3864
	20%	3%	4%	6%
grade 1 events	264	10	103	22
	0%	0%	0%	0%
grade 2 events	16647	1140	5235	3403
	17%	2%	9%	5%
grade 3 events	1291	693	2584	1604
	1%	1%	4%	2%
grade 4 events	1251	764	2629	1482
	1%	1%	4%	2%
grade 5 events	7207	1834	5375	2754
	7%	3%	9%	4%
grade 6 events	17520	1257	12490	4544
	18%	2%	22%	7%
grade 7 events	32194	41167	24667	45502
	33%	85%	44%	72%

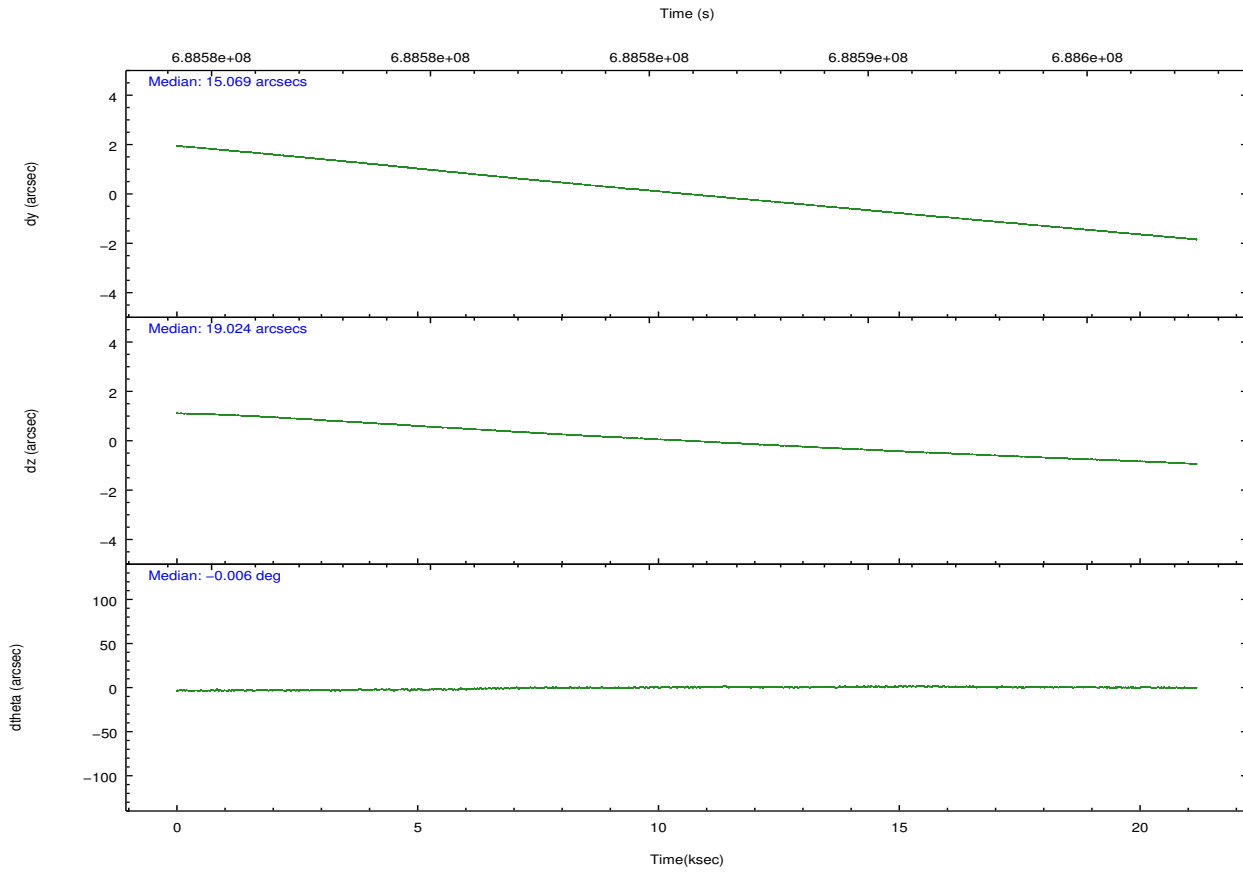
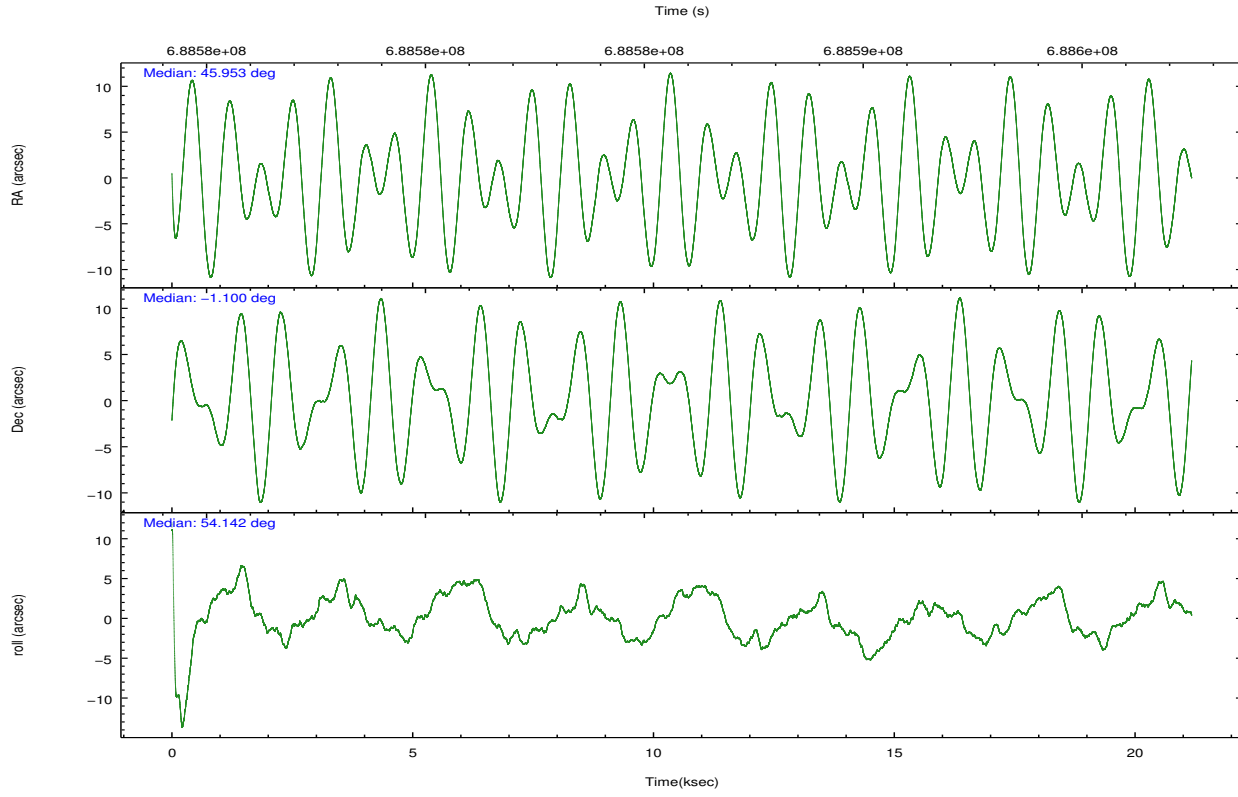
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	45.950290	45.95272350575096
[deg] Pointing Dec	-1.127558	-1.100219228232891
[deg] Pointing Roll	53.999915	54.15660993596279
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	688575452.184000	688574546.15203
Observation start date	2019-10-27T14:56:23	2019-10-27T14:42:26
[s] Observation end time (MET)	688596452.184000	688596954.1908799
Observation end date	2019-10-27T20:46:23	2019-10-27T20:55:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
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	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



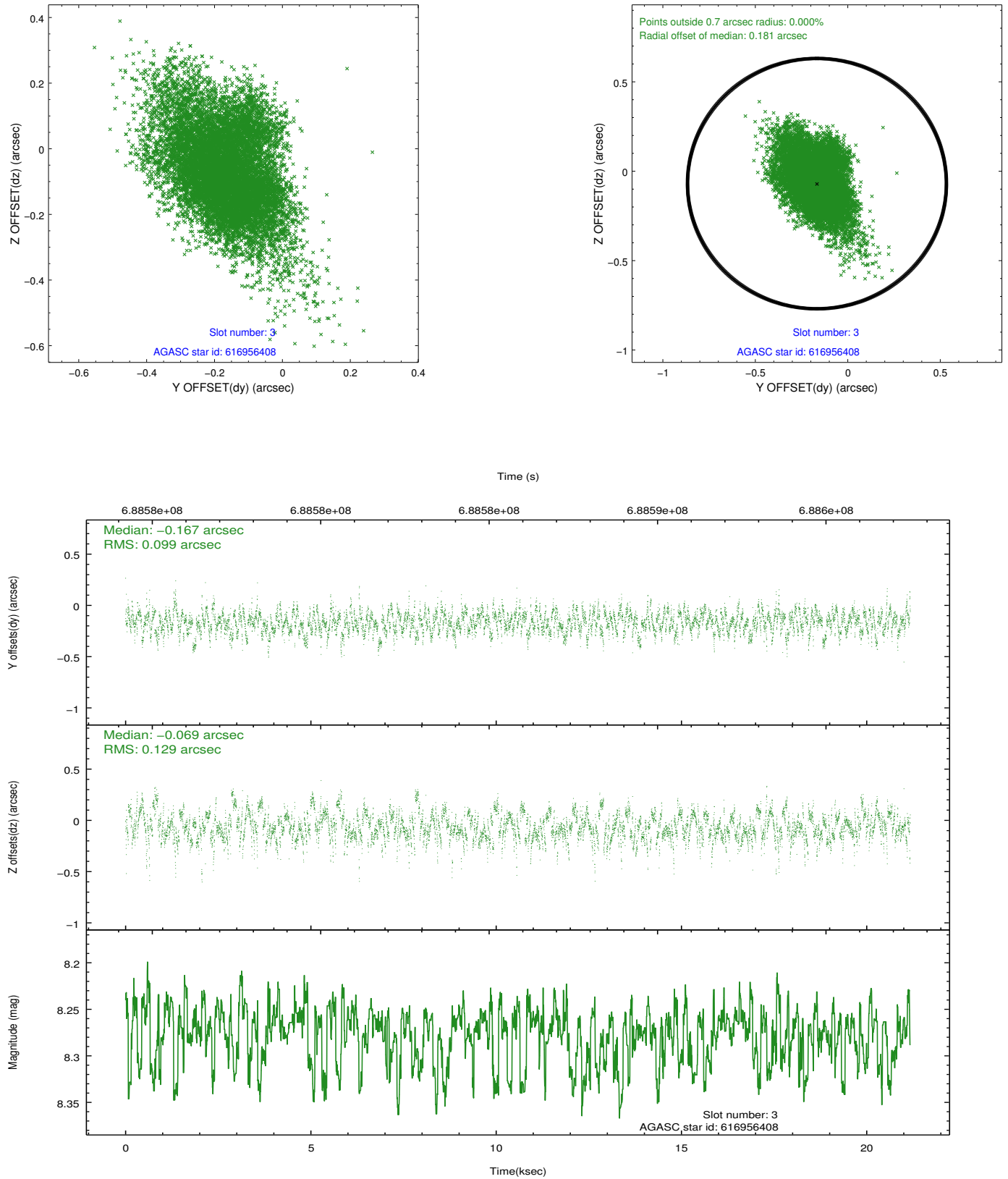


Slot Statistics

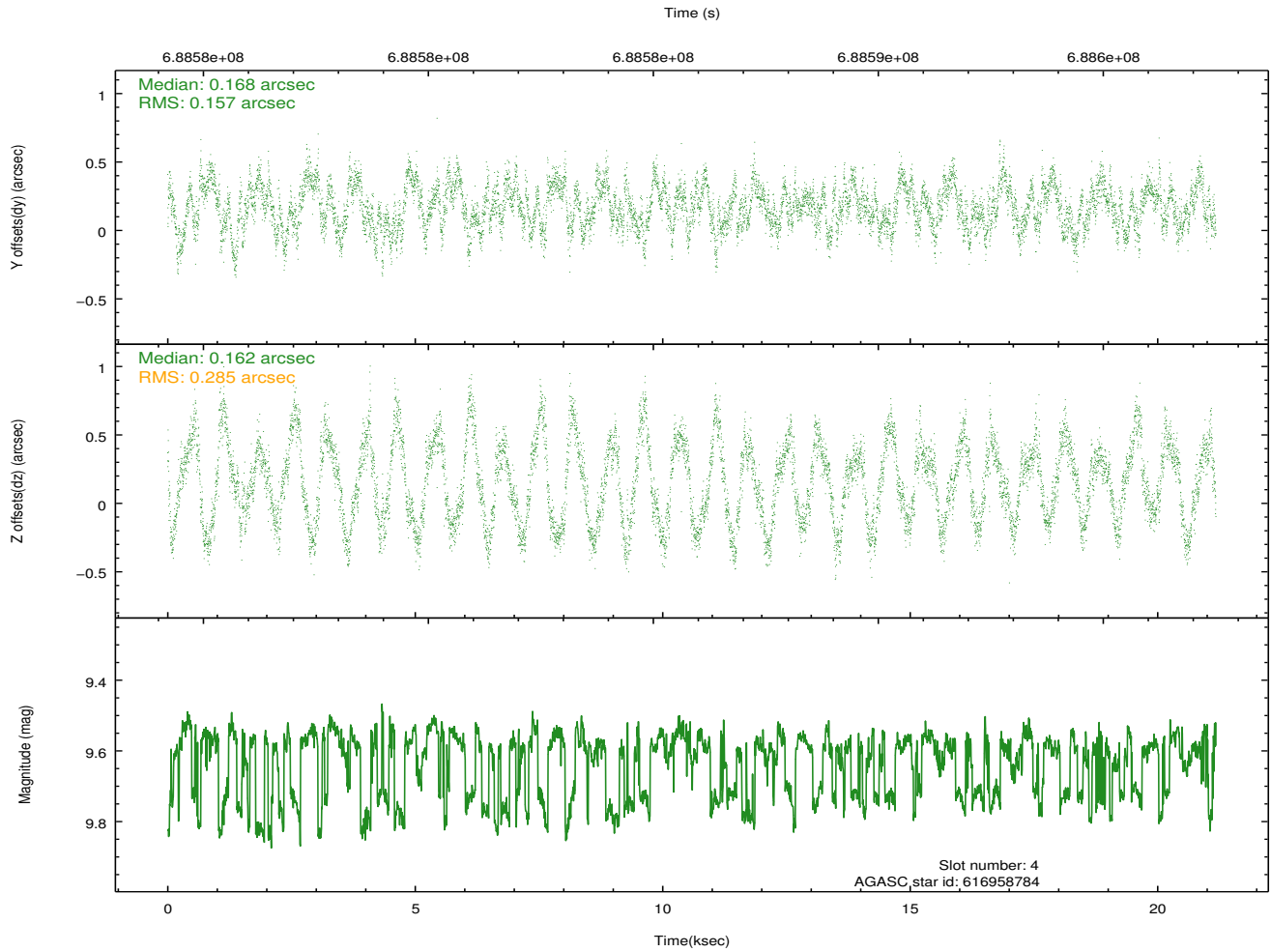
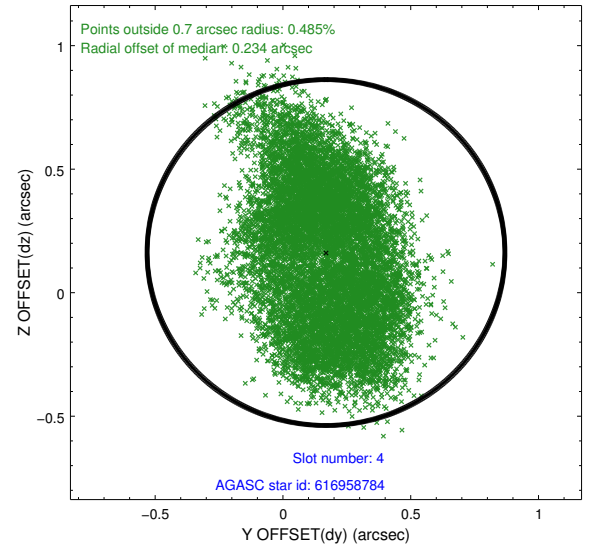
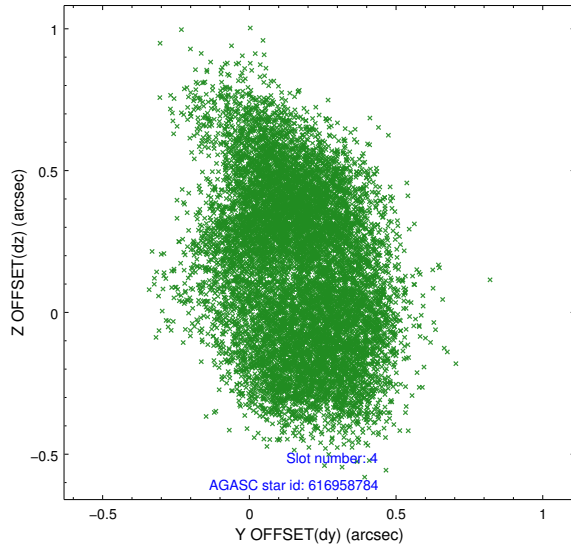
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.12	5165	1.000	-0.309	-0.224	0.039	0.073	0.000000	0.000000	-768.30 -1740
1	FID		ACIS-S-4	7.25	5164	1.000	0.810	0.207	0.021	0.056	0.000000	0.000000	2145.93 168
2	FID		ACIS-S-5	7.20	5165	1.000	-0.548	0.024	0.042	0.051	0.000000	0.000000	-1821.24 161
3	GUIDE	used	616956408	8.27	10320	1.000	-0.167	-0.069	0.165	0.289	46.730739	-1.155158	1571.31 -2330
4	GUIDE	used	616958784	9.61	10310	1.000	0.168	0.162	0.353	0.536	46.208963	-1.316678	-2.51 -1154
5	GUIDE	used	616961336	9.56	10303	1.000	0.102	0.190	0.273	0.413	46.093581	-1.282936	-148.99 -745
6	GUIDE	used	616961464	8.28	10321	1.000	-0.002	0.064	0.143	0.223	45.458874	-1.162529	-1141.39 1356
7	GUIDE	used	616962800	8.03	10324	1.000	-0.097	-0.310	0.131	0.250	45.469553	-0.918492	-408.42 1841

2.4 Star Slots

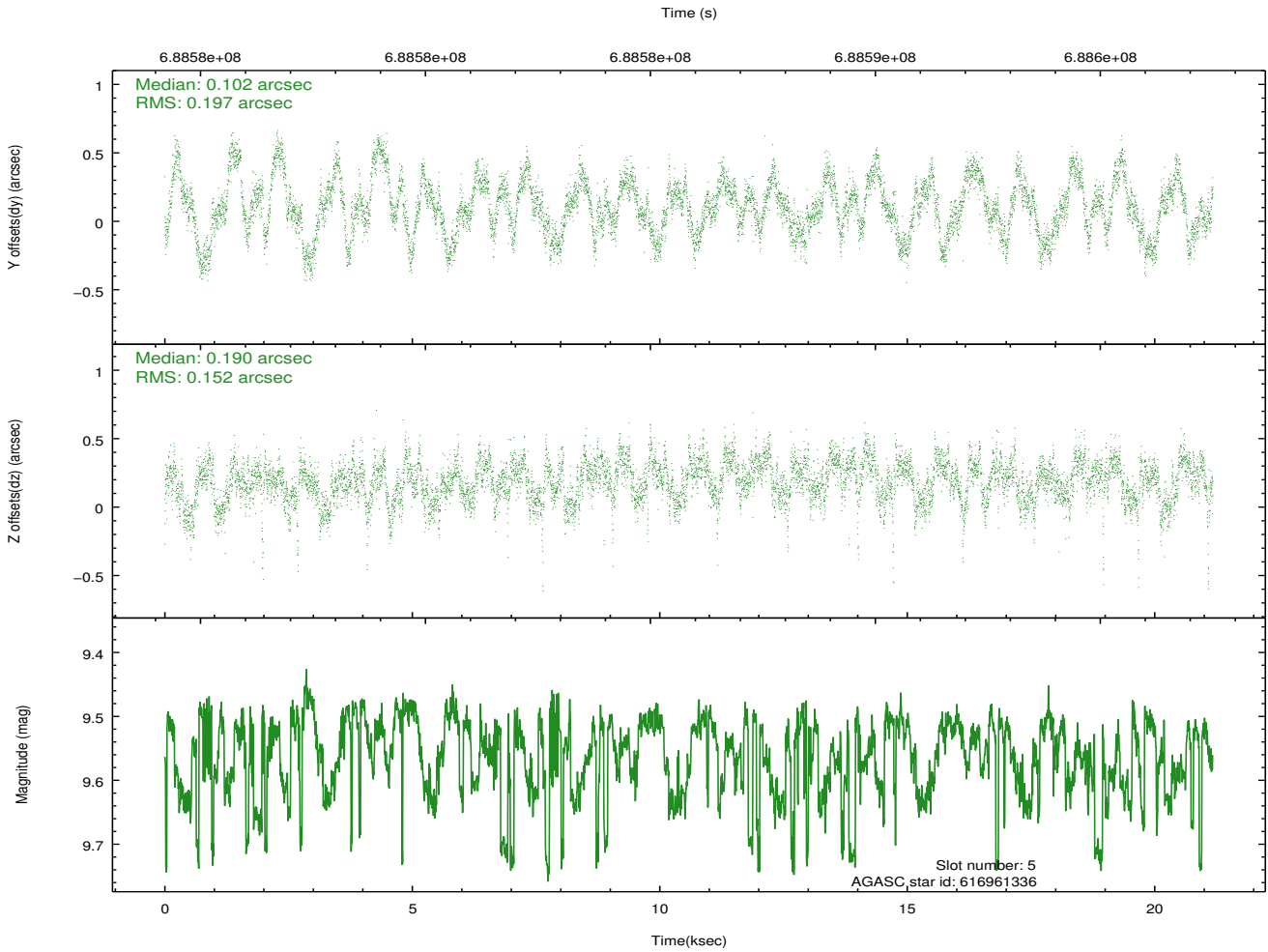
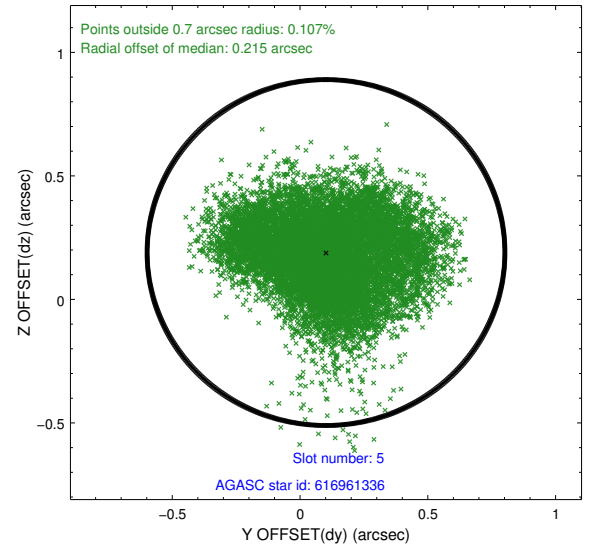
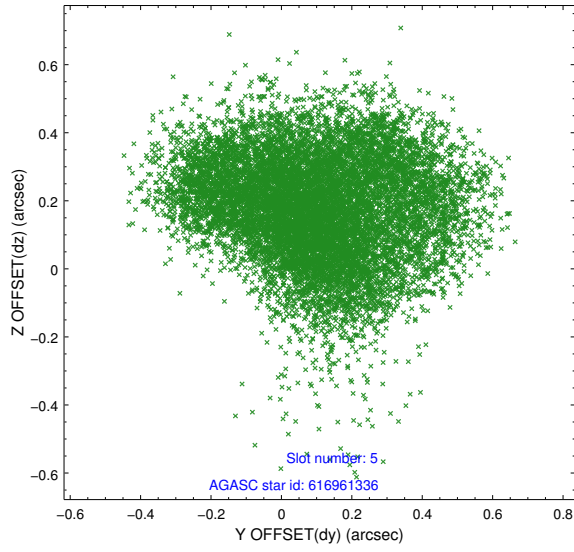
2.4.1 Slot 3



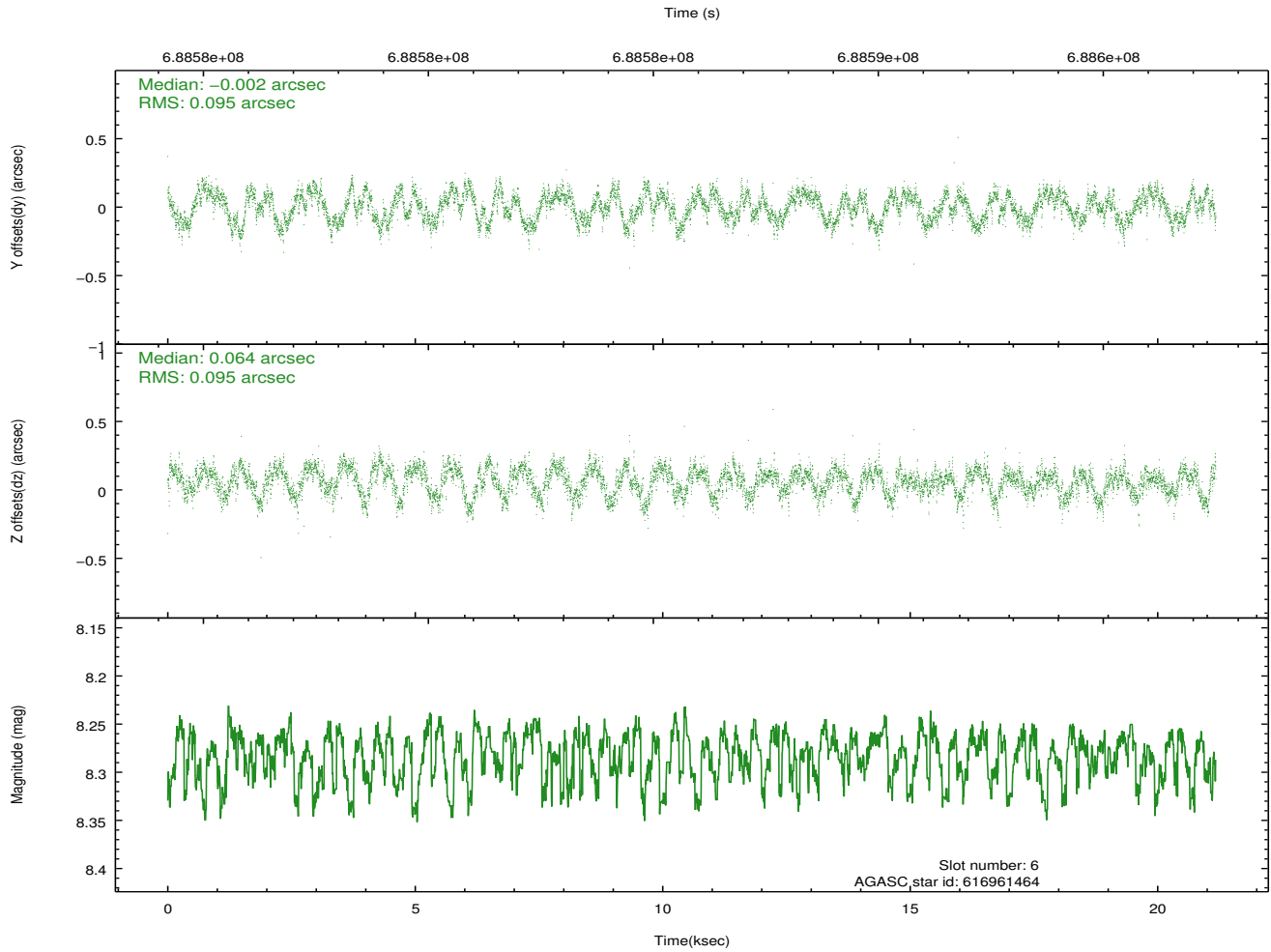
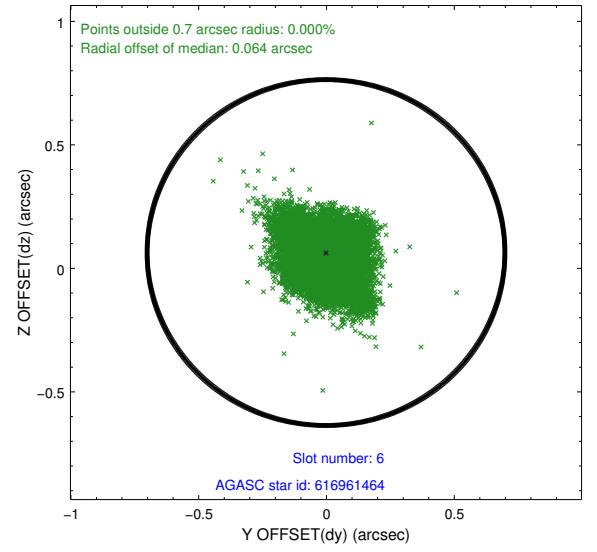
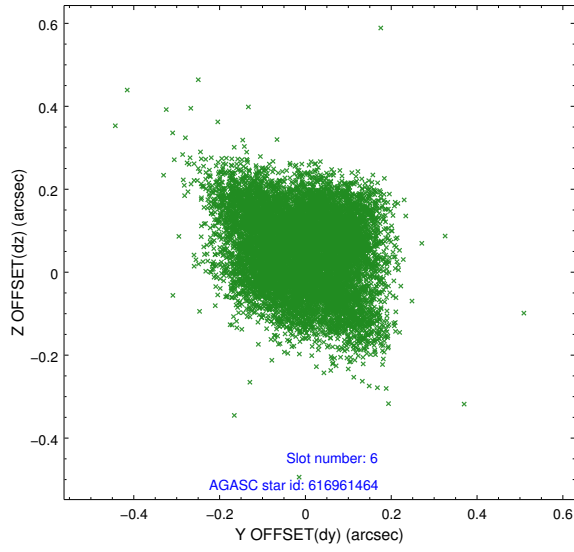
2.4.2 Slot 4



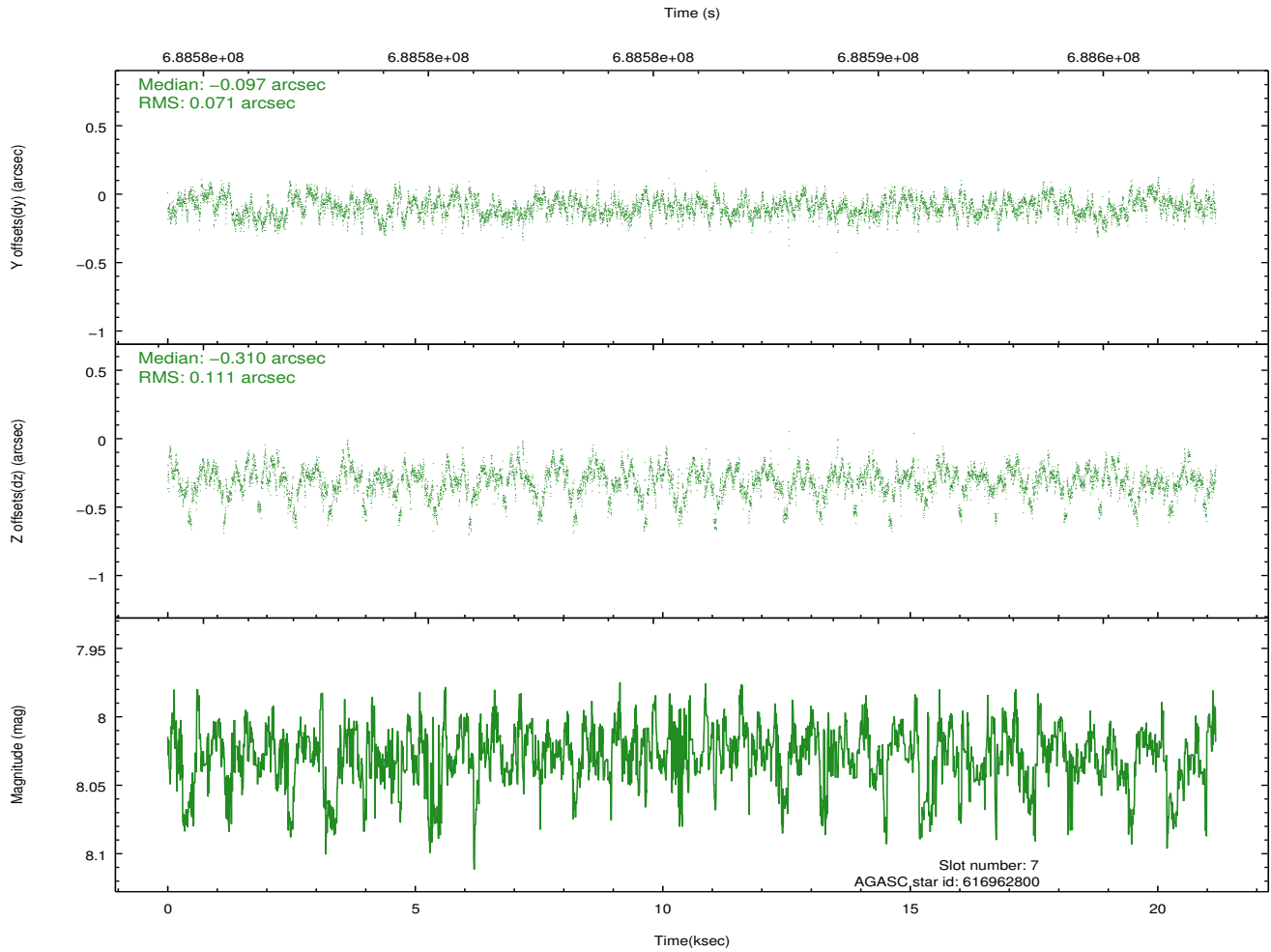
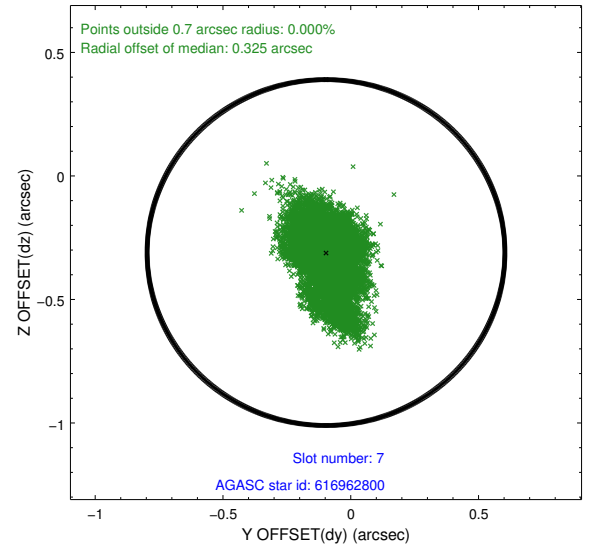
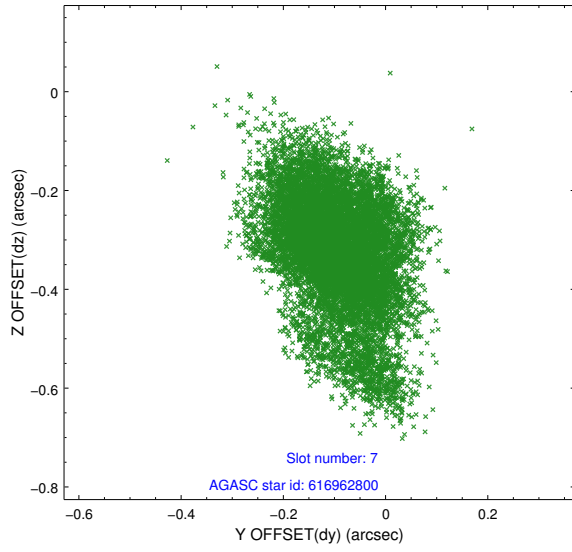
2.4.3 Slot 5



2.4.4 Slot 6

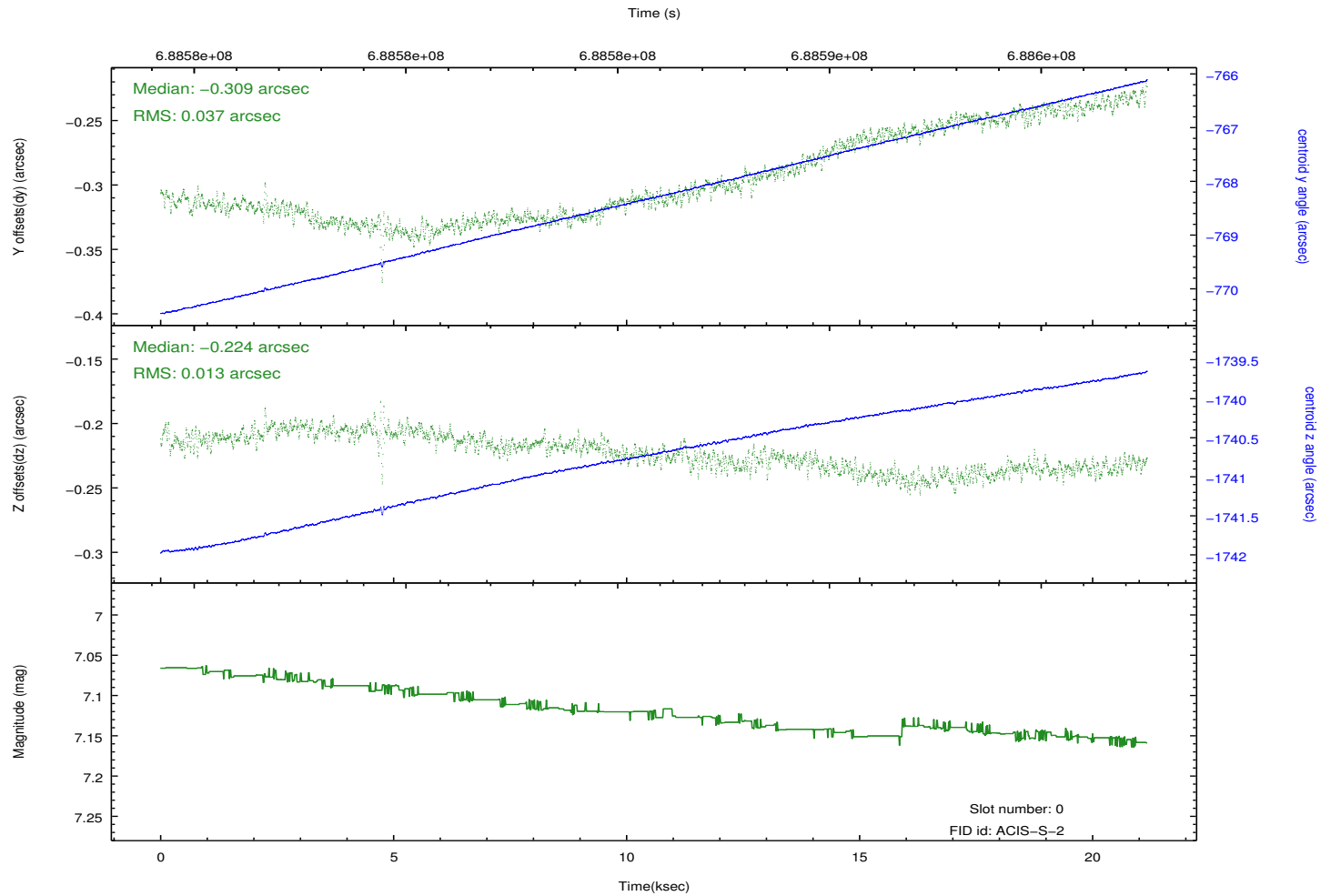
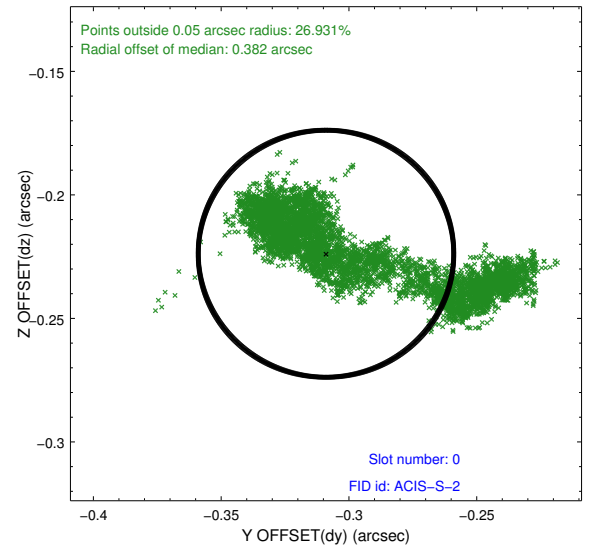
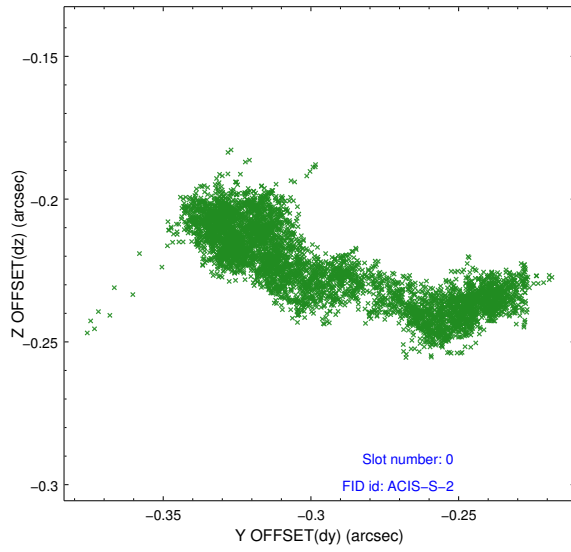


2.4.5 Slot 7

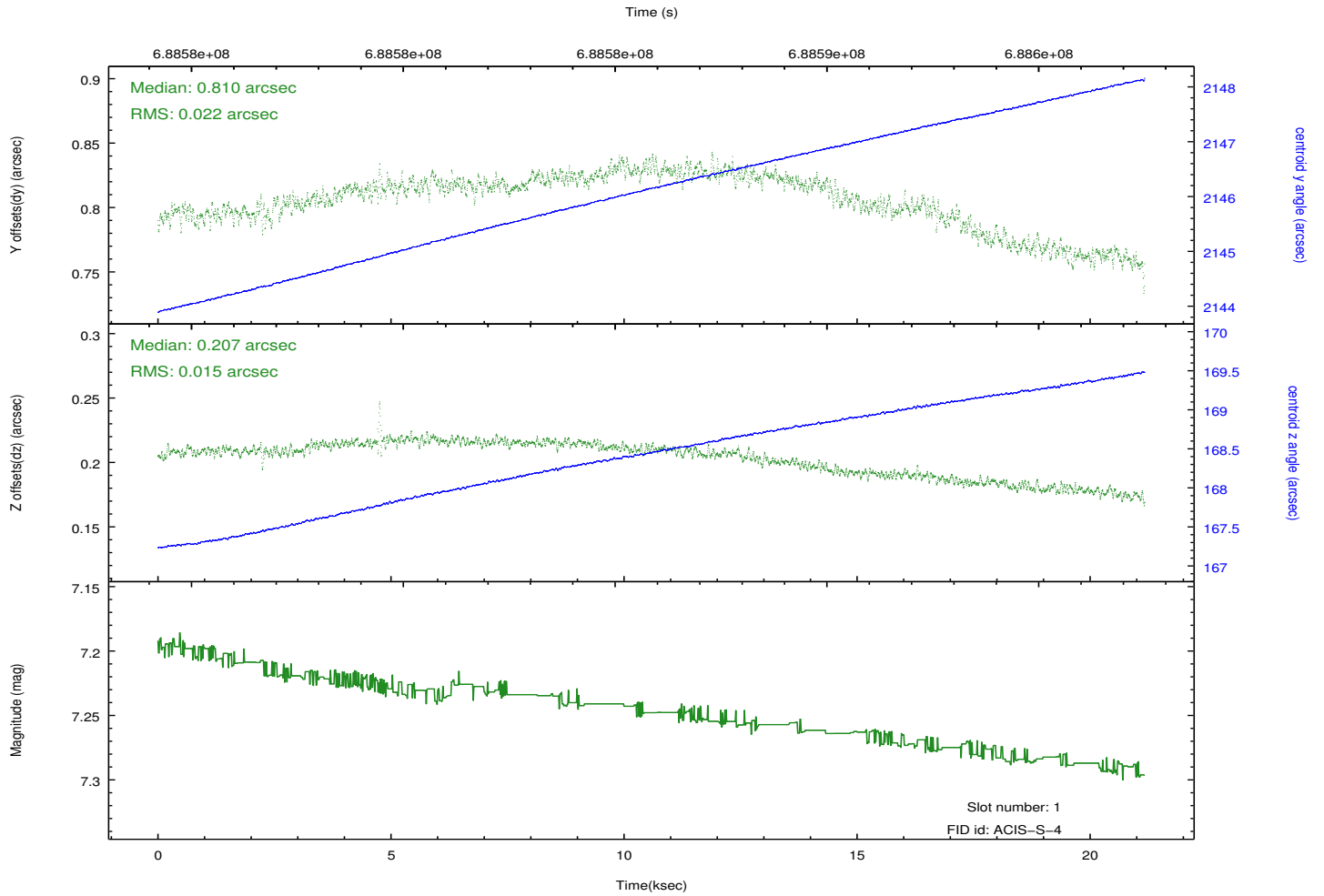
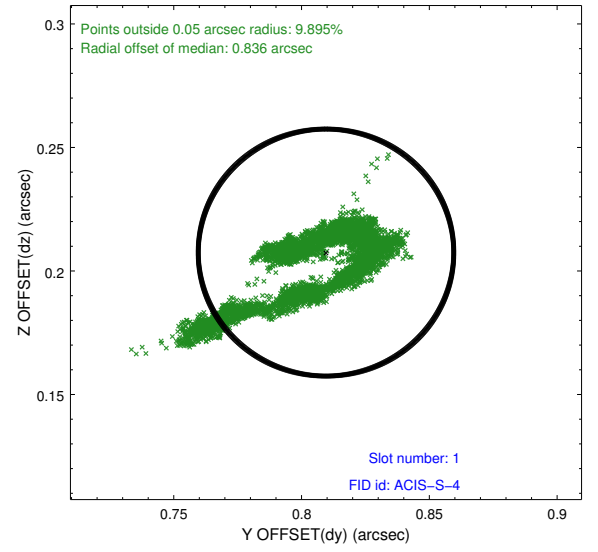
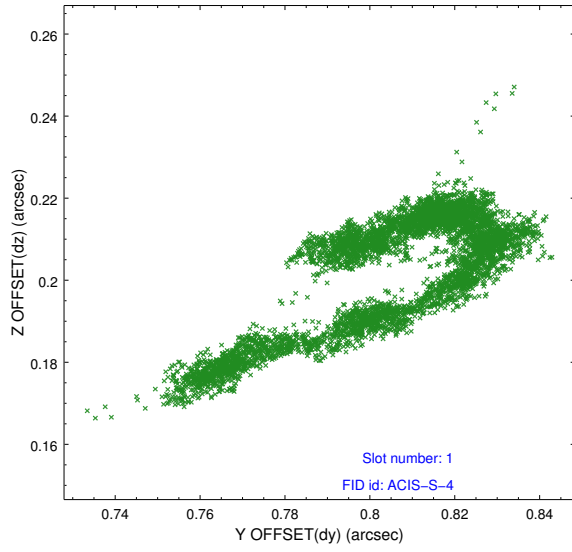


2.5 FID Slots

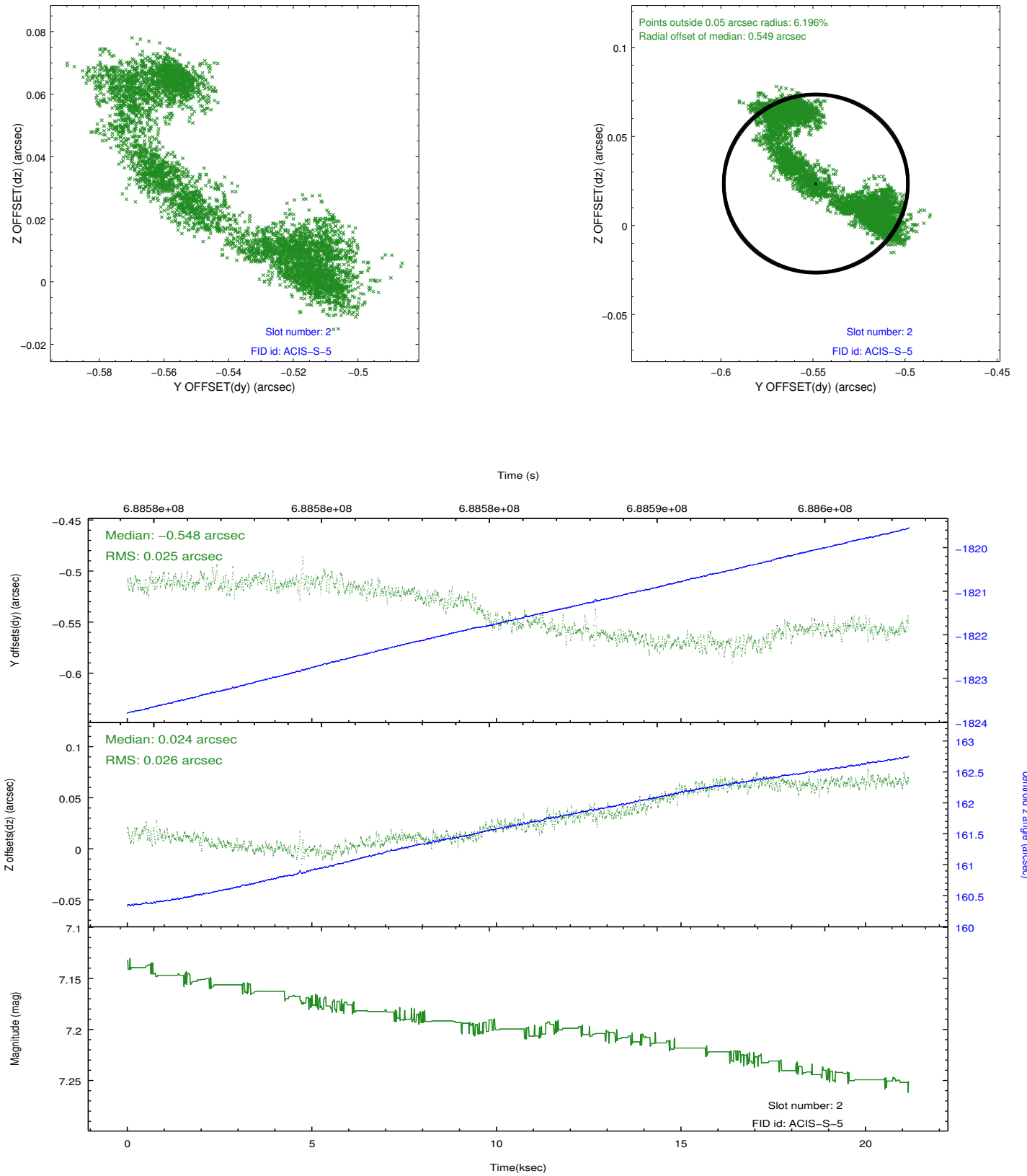
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.081816504836

A.2 Comments