

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22058 - L2 Version 1
Chandra X-Ray Center

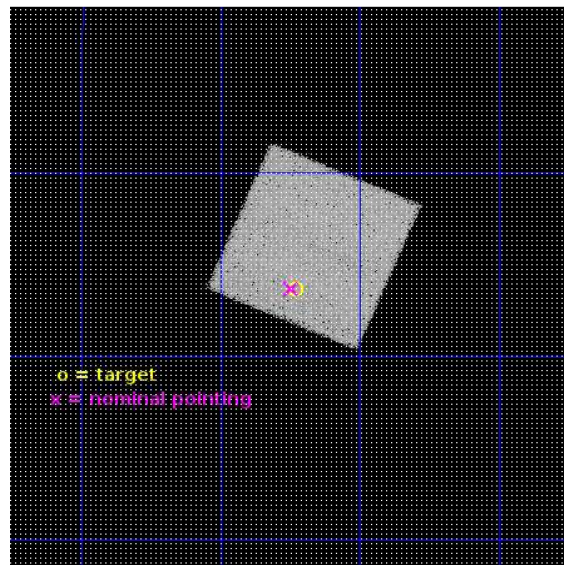
L2 Processing Date : Jan 21 2019

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1 Front

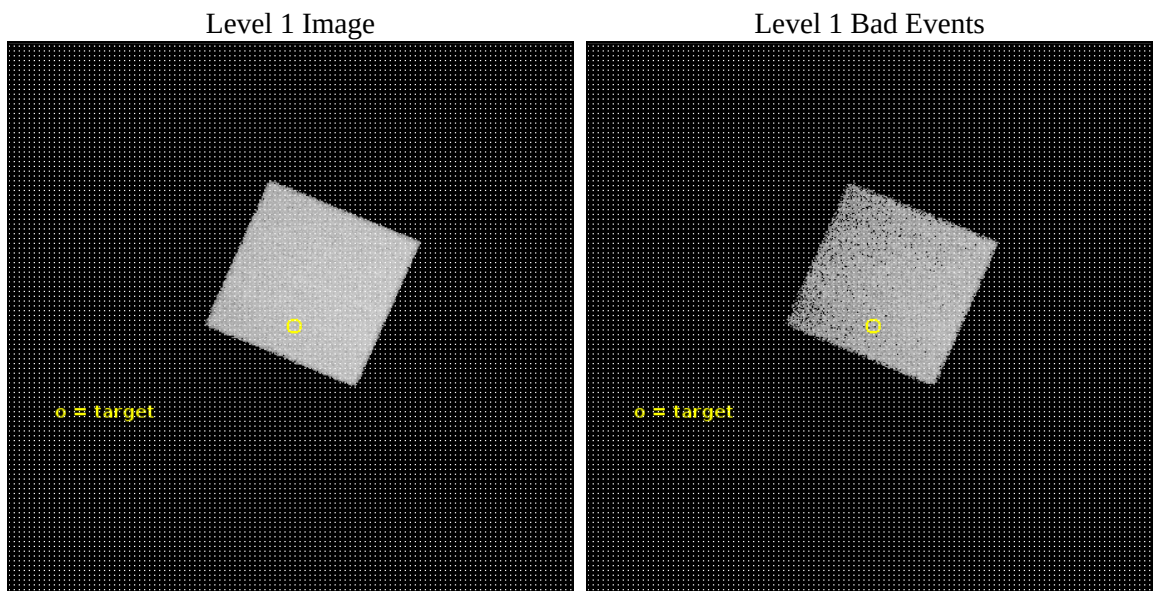
seq_num	703850	Sequence number
obs_id	22058	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	PSRB0656p14_s7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	105.057823	Observer's specified target RA [deg]
dec_targ	14.22815	Observer's specified target Dec [deg]
ra_nom	105.06142232554	Nominal RA [deg]
dec_nom	14.228234604986	Nominal Dec [deg]
roll_nom	293.15575702546	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20089.886463284	Sum of GTIs [s]
livetime	19818.765747854	Livetime [s]
ontime7	20089.886463284	Sum of GTIs [s]
l2events	83197	Number of level 2 events



2 OBI

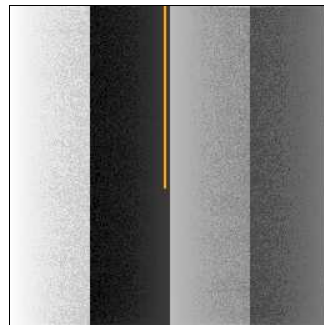
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	20089.886463284	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	20089.886463284	Sum of GTIs [s]
date	2019-01-22T03:18:42	Date and time of file creation	l1events	196403	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	196403
rejected events	110784
rejected %	56%

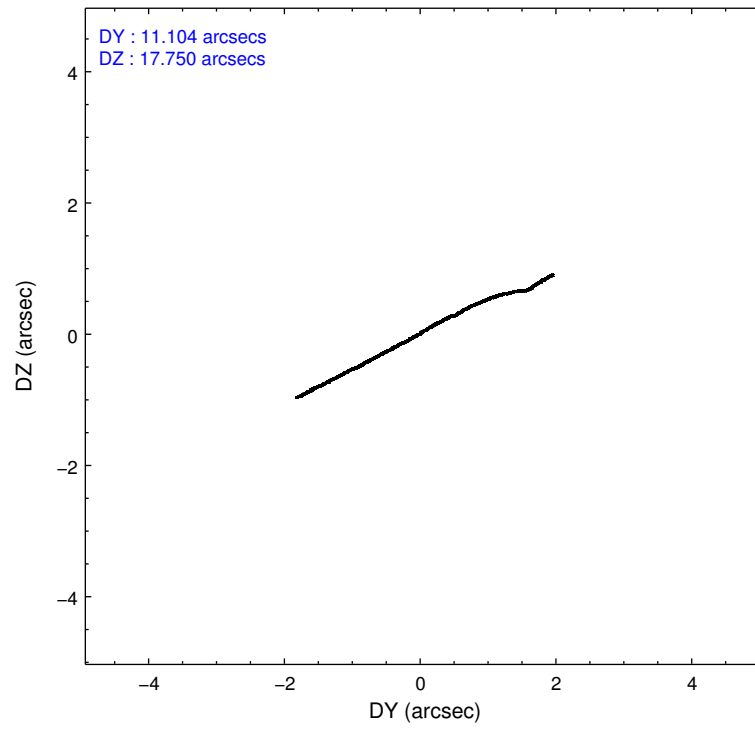
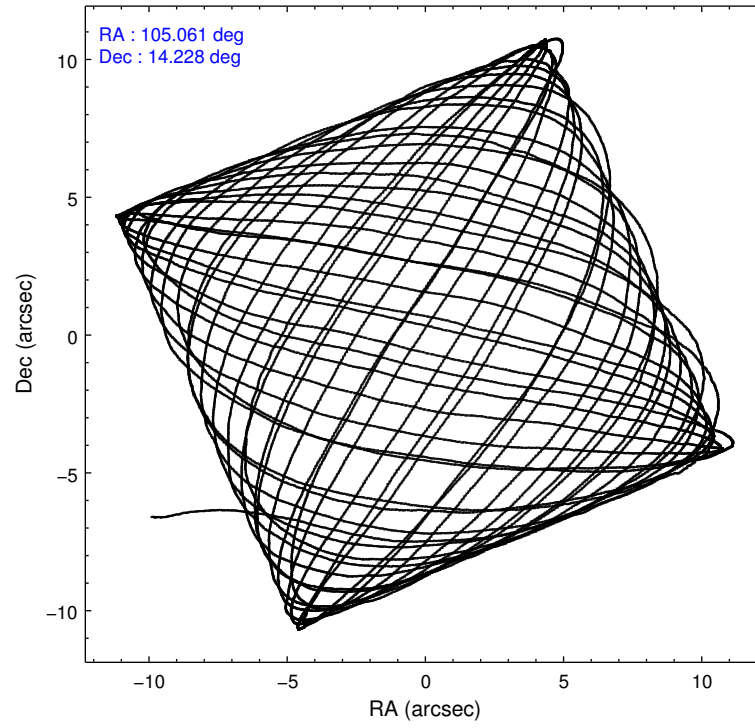
	ccd 7
grade 0 events	7165
	3%
grade 1 events	253
	0%
grade 2 events	17890
	9%
grade 3 events	6623
	3%
grade 4 events	6602
	3%
grade 5 events	19159
	9%
grade 6 events	47360
	24%
grade 7 events	91351
	46%

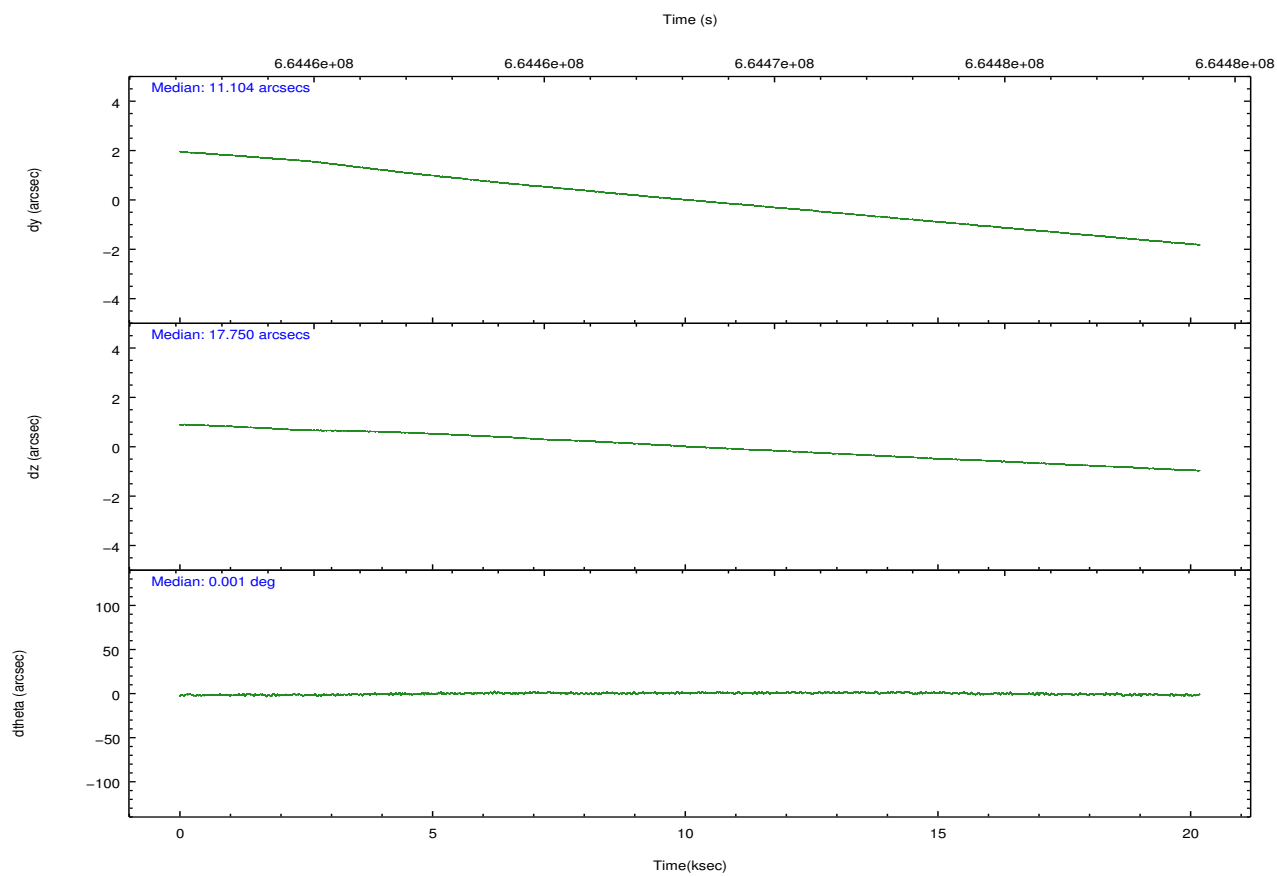
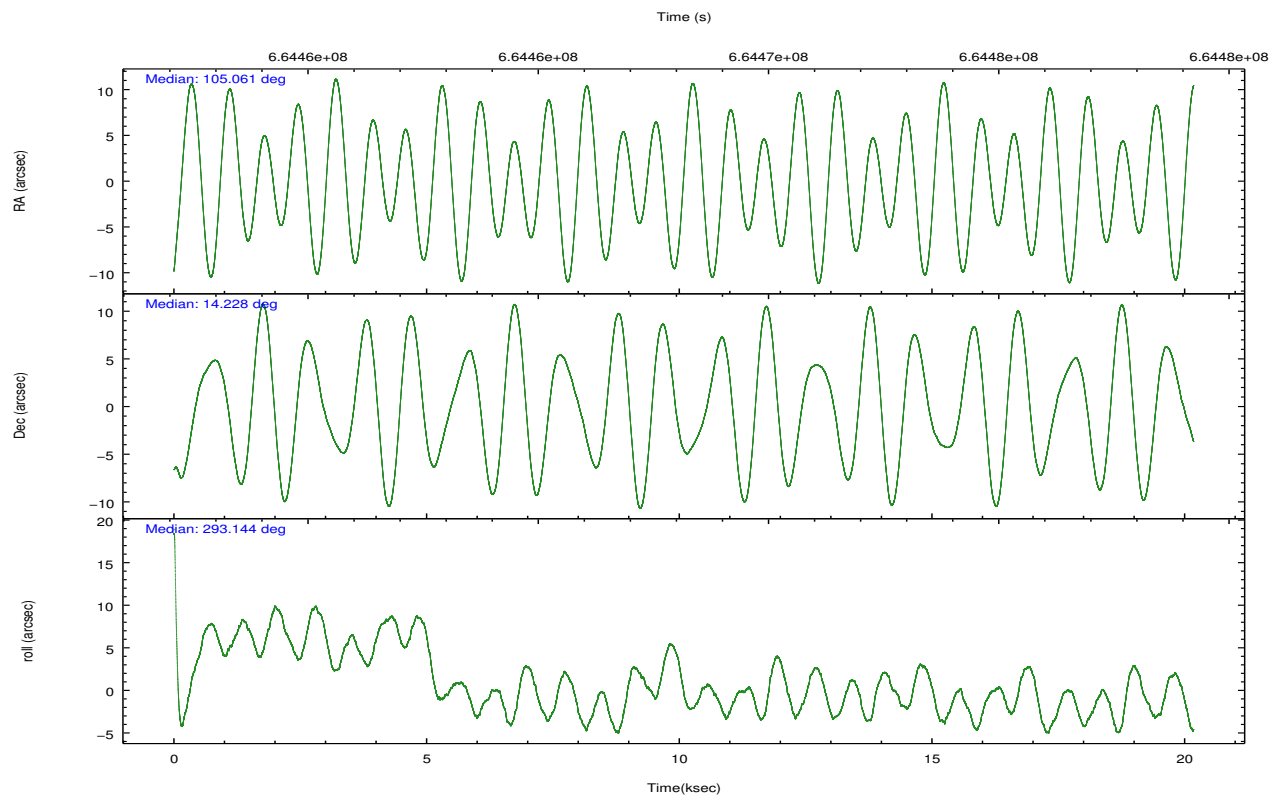
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	105.038542	105.0614223255425
[deg] Pointing Dec	14.244412	14.22823460498575
[deg] Pointing Roll	293.004741	293.1557570254647
[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)	664458249.184000	664457468.8428
Observation start date	2019-01-21T11:43:00	2019-01-21T11:31:08
[s] Observation end time (MET)	664478249.184000	664479337.7316
Observation end date	2019-01-21T17:16:20	2019-01-21T17:35:37
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

2.3 Aspect



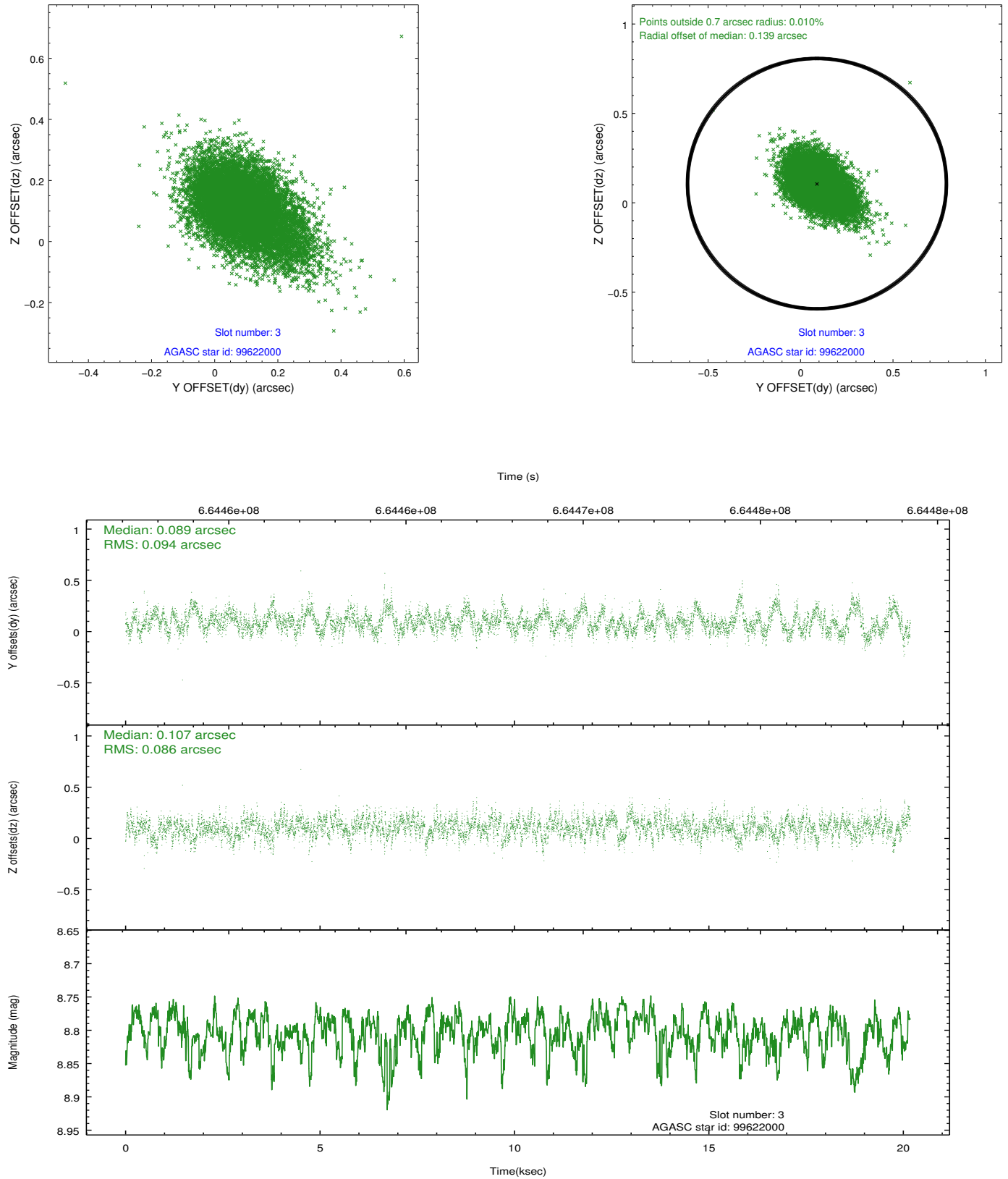


Slot Statistics

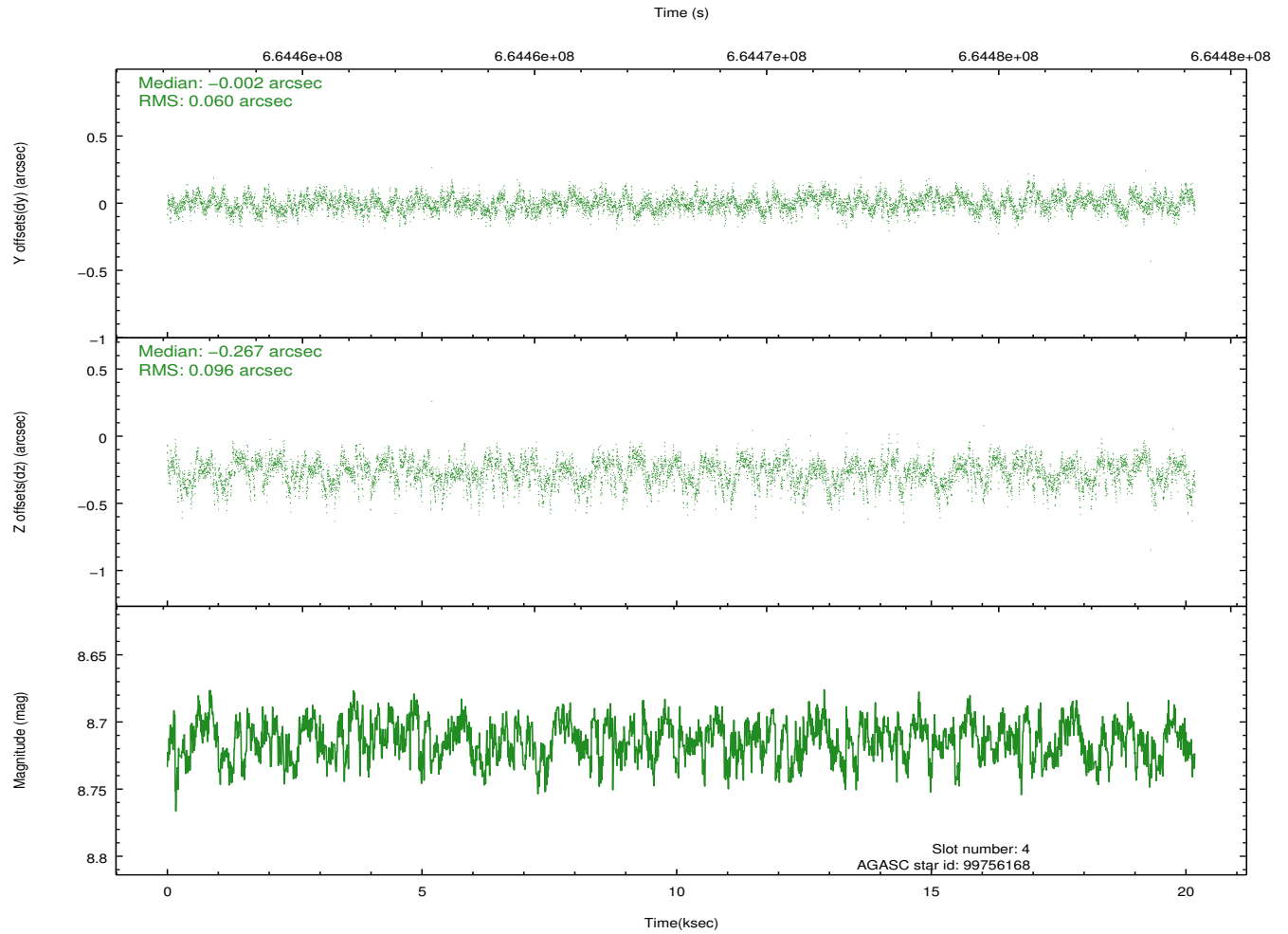
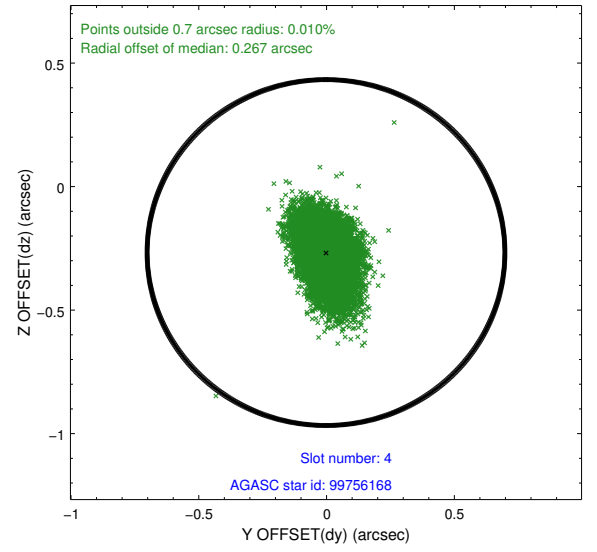
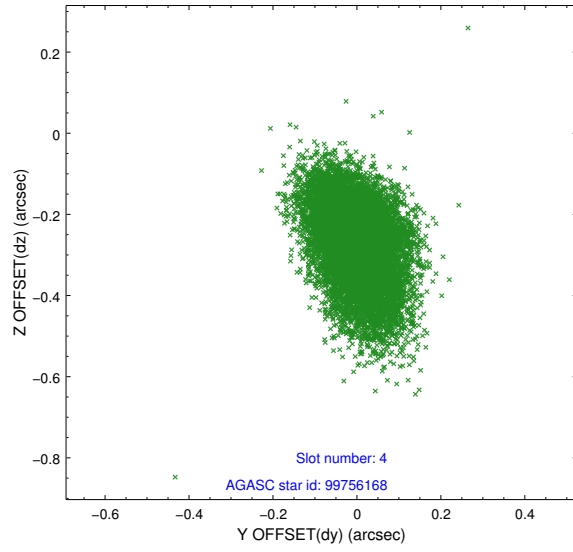
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.16	4922	1.000	0.057	0.005	0.026	0.044	0.000000	0.000000	931.89 -1734
1	FID		ACIS-S-3	7.33	4922	1.000	-0.367	-0.299	0.029	0.053	0.000000	0.000000	48.84 -1868
2	FID		ACIS-S-4	7.18	4922	1.000	0.289	0.300	0.010	0.020	0.000000	0.000000	2149.65 169
3	GUIDE	used	99622000	8.80	9829	1.000	0.089	0.107	0.132	0.227	104.781578	13.702906	1443.56 -1588
4	GUIDE	used	99756168	8.71	9833	1.000	-0.002	-0.267	0.117	0.201	105.592210	14.661738	-631.21 2362
5	GUIDE	used	99756800	7.91	9838	1.000	-0.088	0.100	0.082	0.145	105.449167	14.846974	-1439.82 2163
6	GUIDE	used	99757360	8.09	9837	1.000	-0.232	-0.406	0.082	0.137	105.544191	13.851091	1991.90 1074
7	GUIDE	used	99625624	7.72	9839	1.000	0.234	0.479	0.106	0.175	104.556043	14.249213	-674.28 -1541

2.4 Star Slots

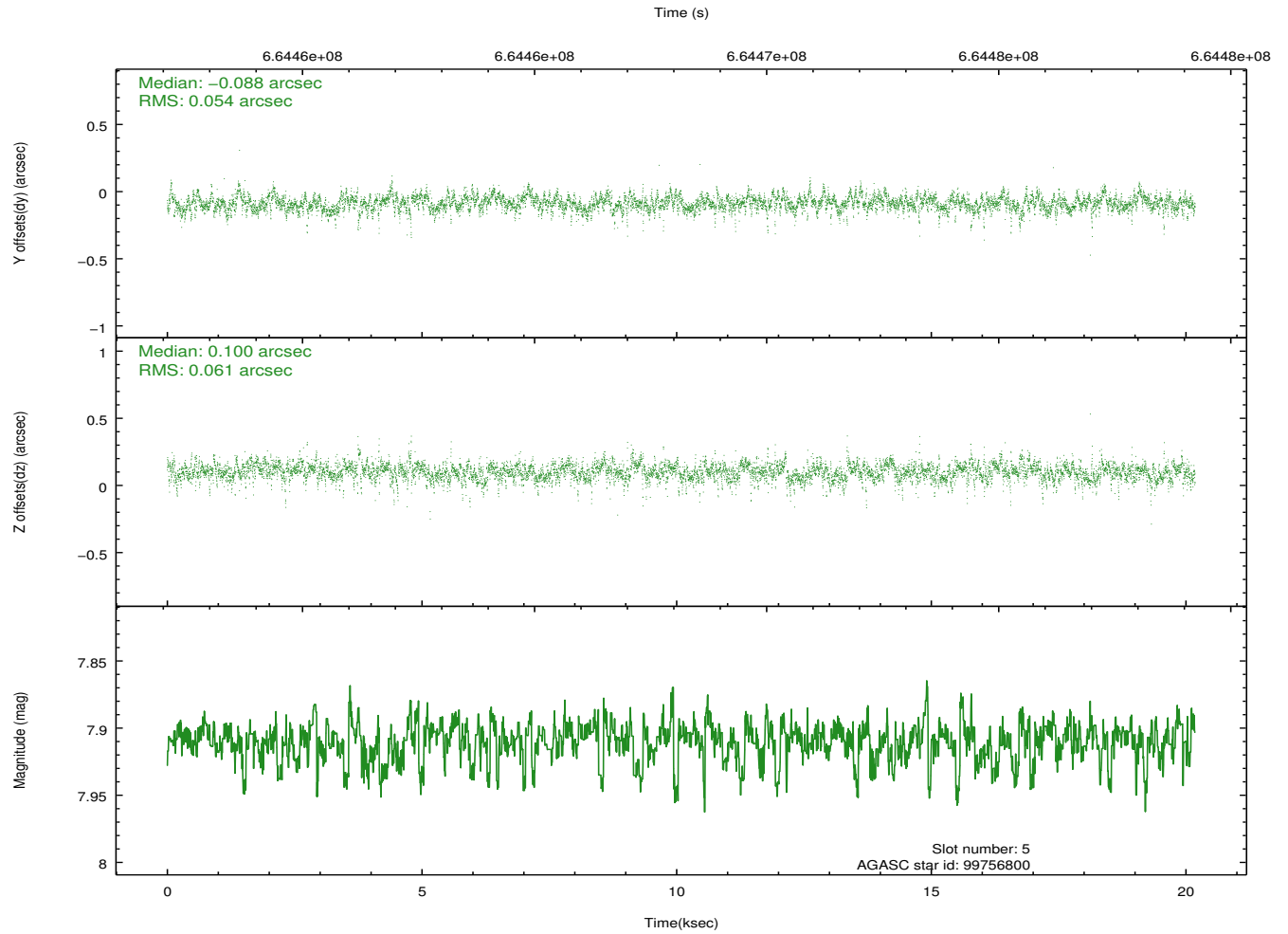
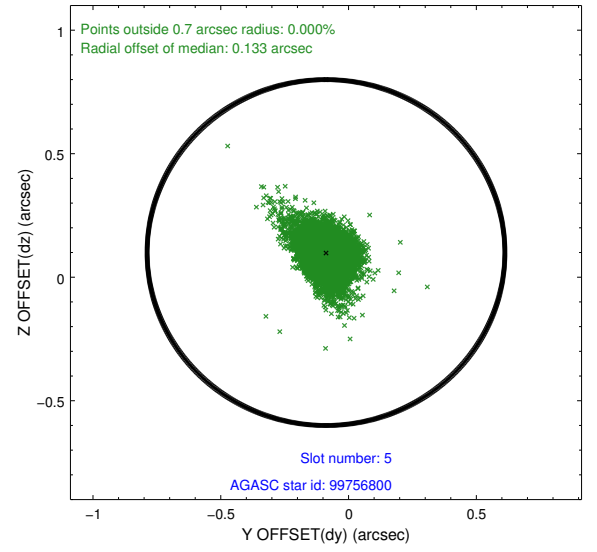
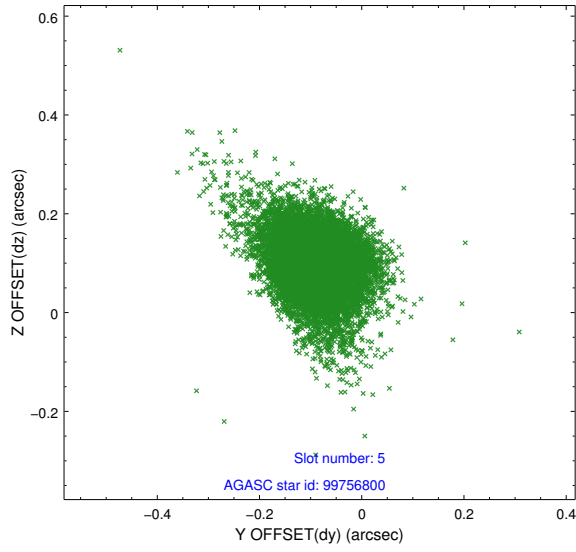
2.4.1 Slot 3



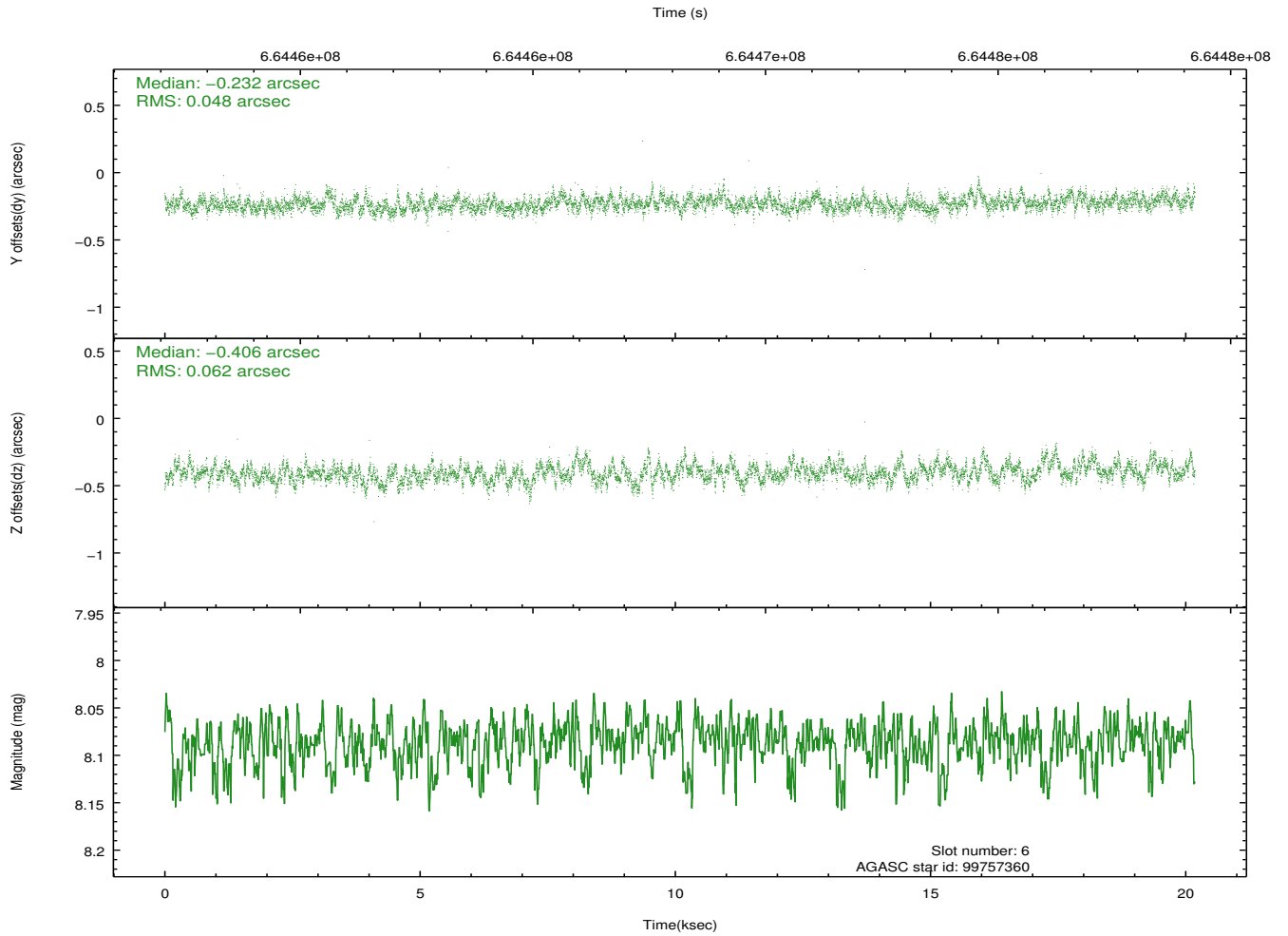
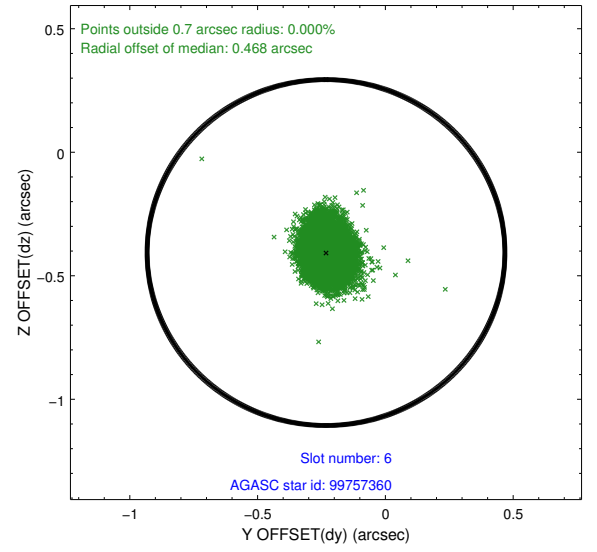
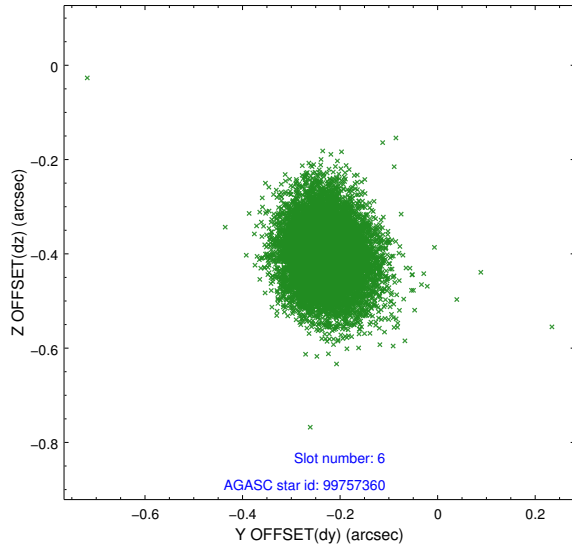
2.4.2 Slot 4



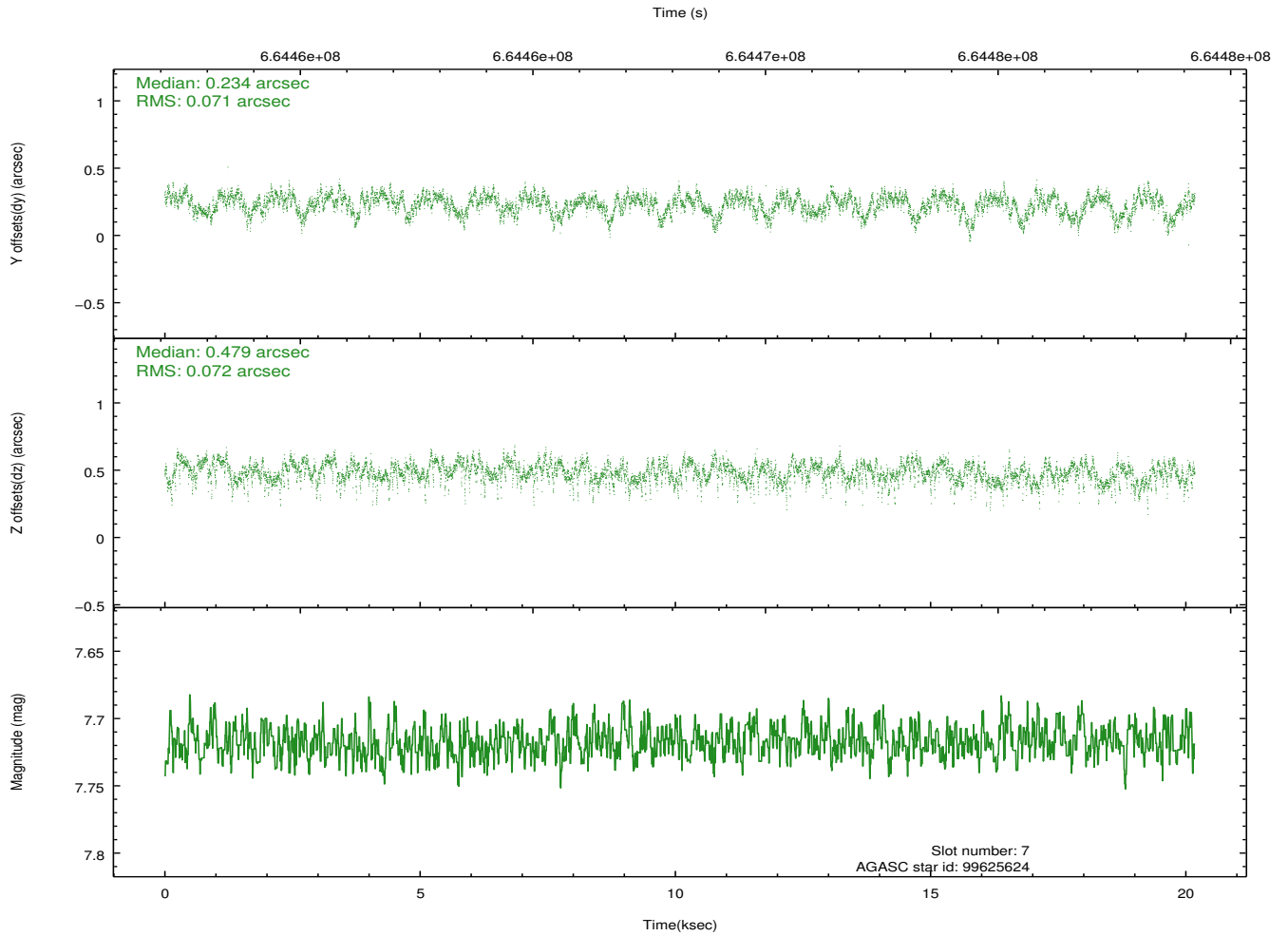
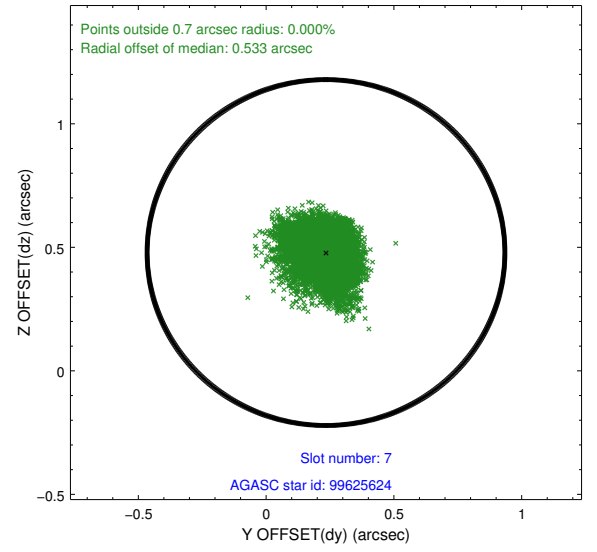
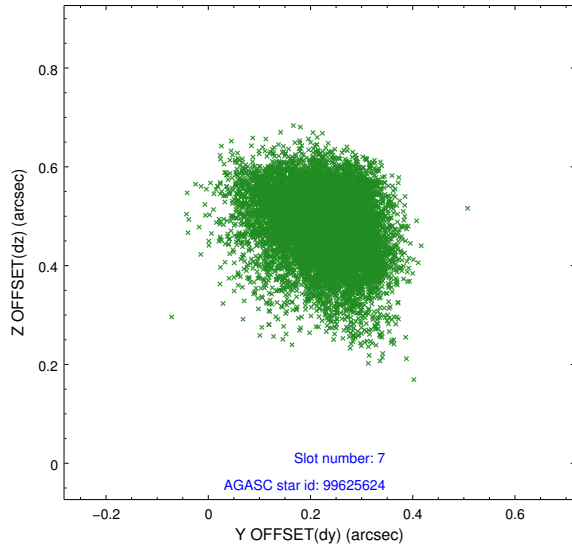
2.4.3 Slot 5



2.4.4 Slot 6

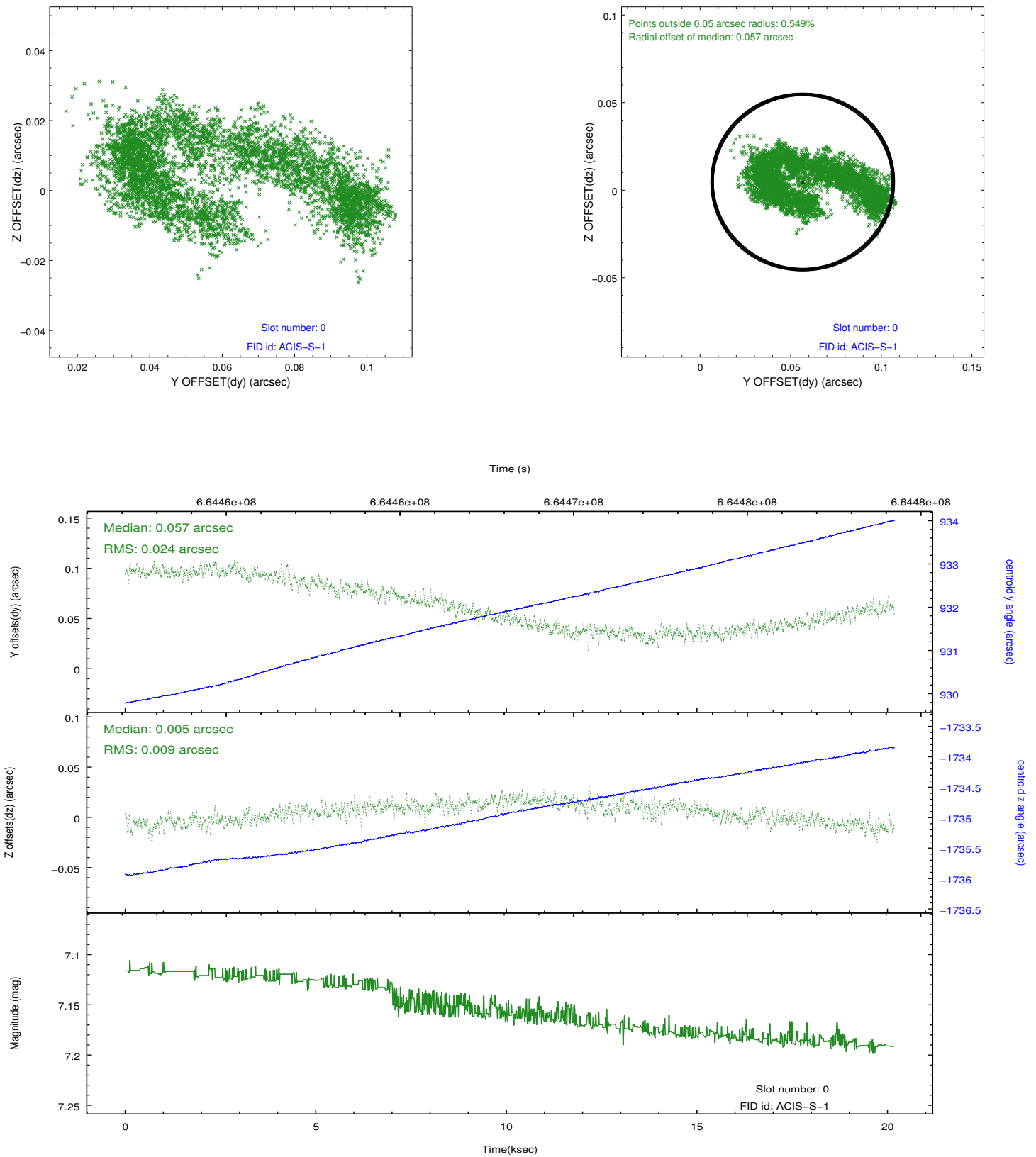


2.4.5 Slot 7

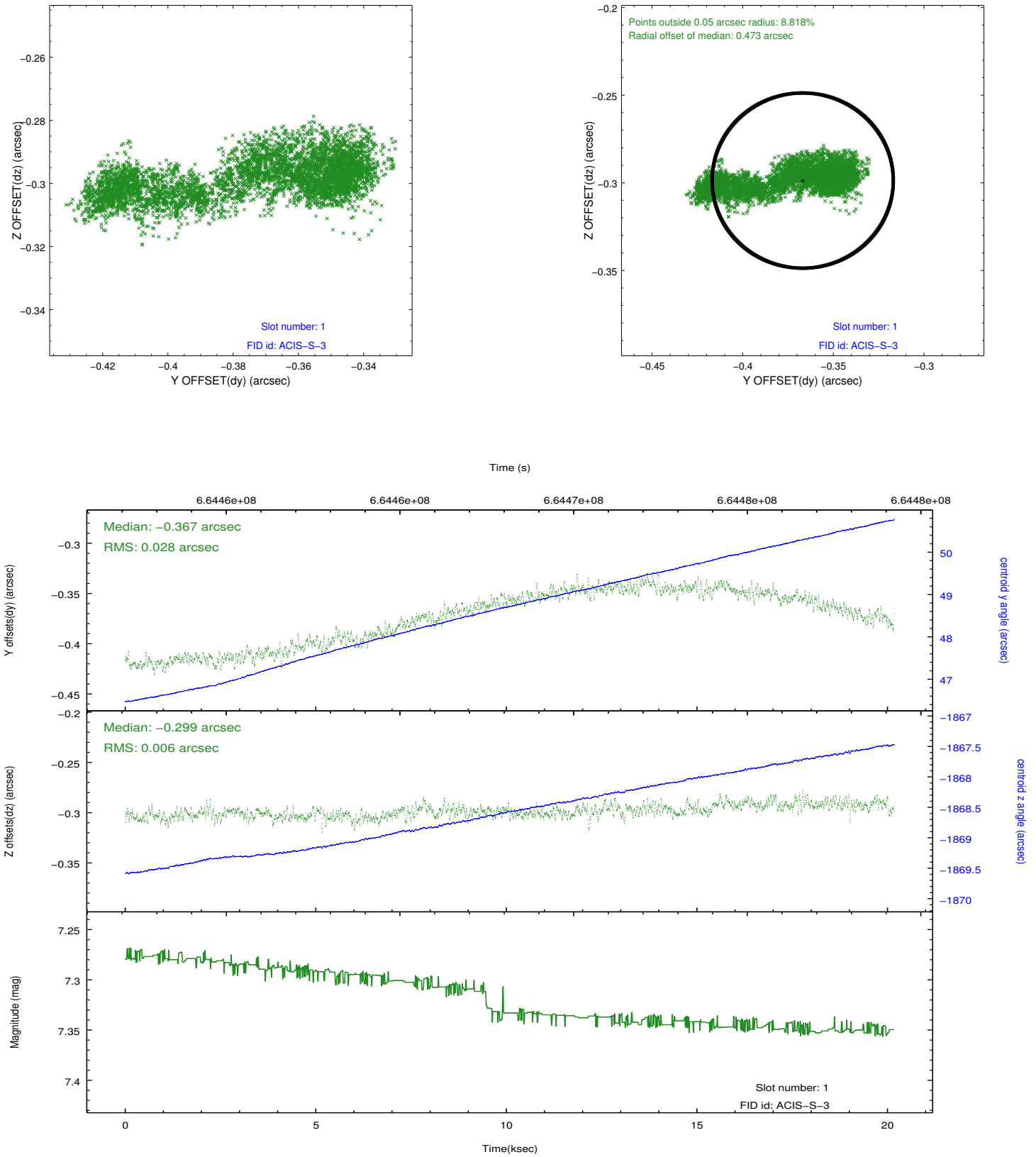


2.5 FID Slots

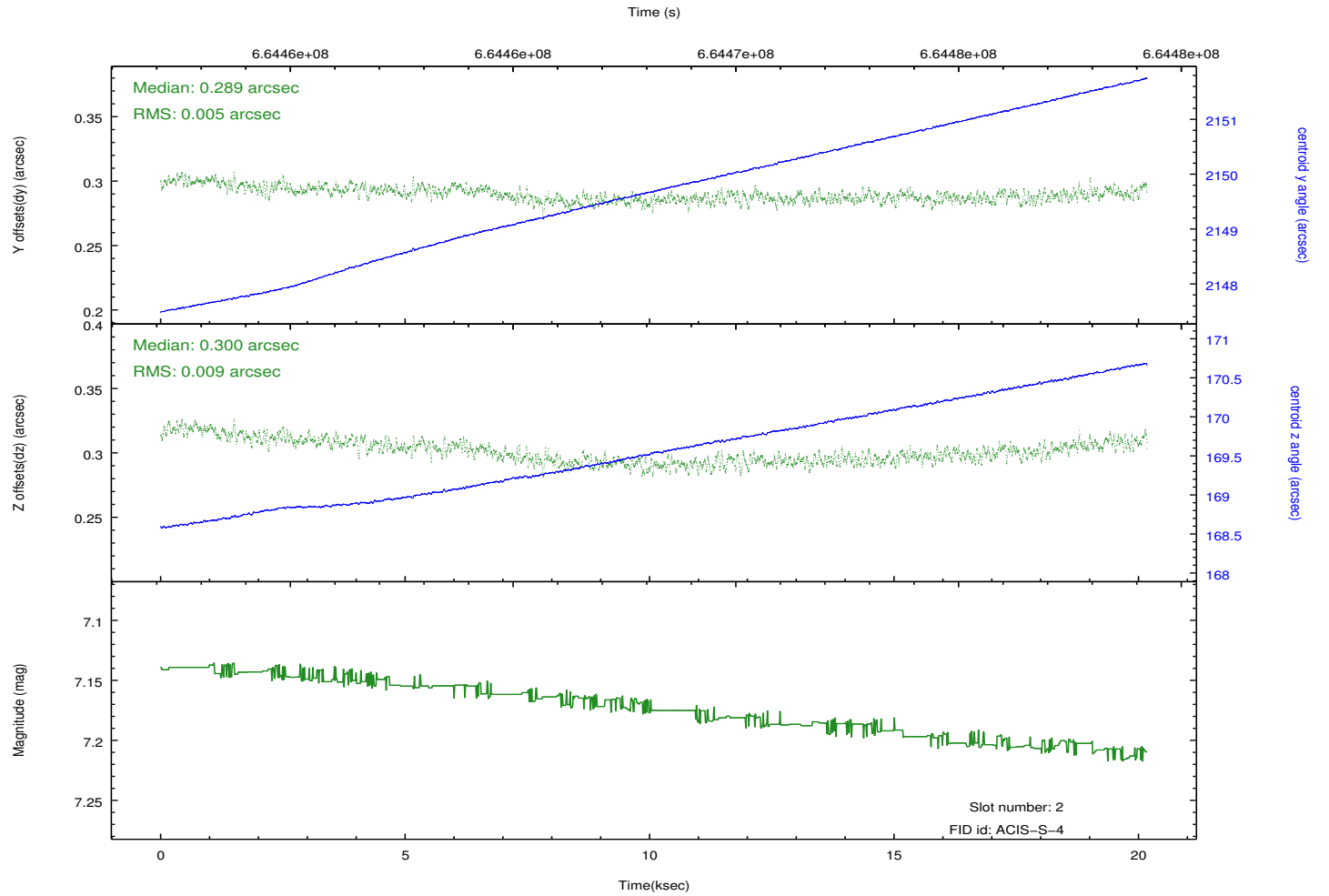
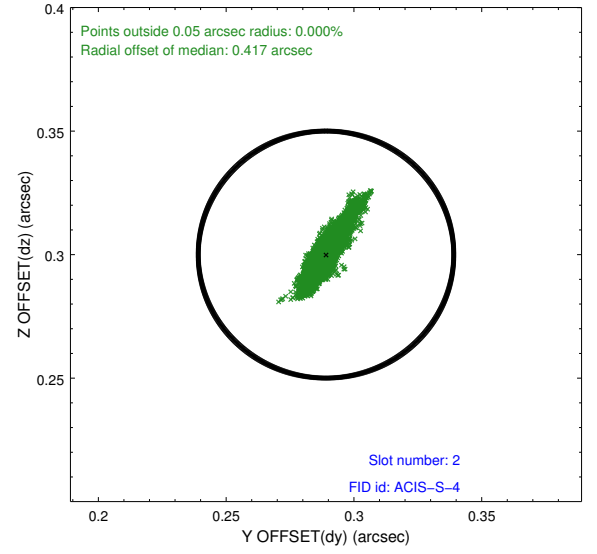
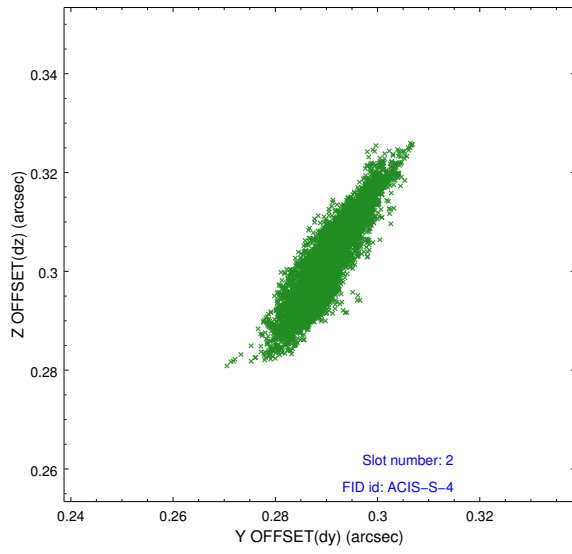
2.5.1 Slot 0



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)	2019.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.089886463284

A.2 Comments