

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19031 - L2 Version 1
Chandra X-Ray Center

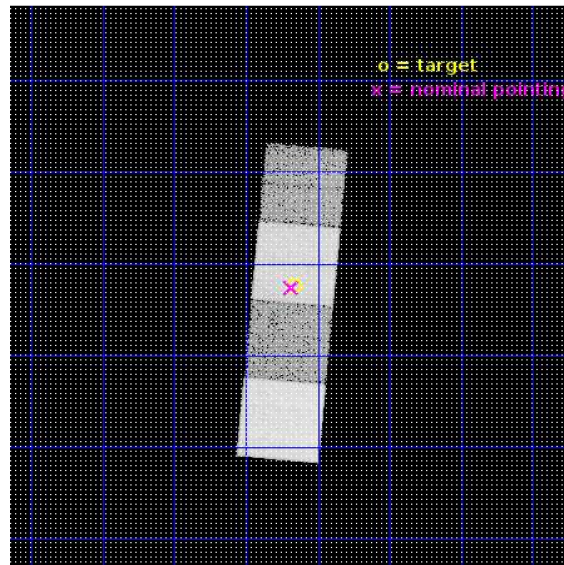
L2 Processing Date : Sep 26 2017

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1 Front

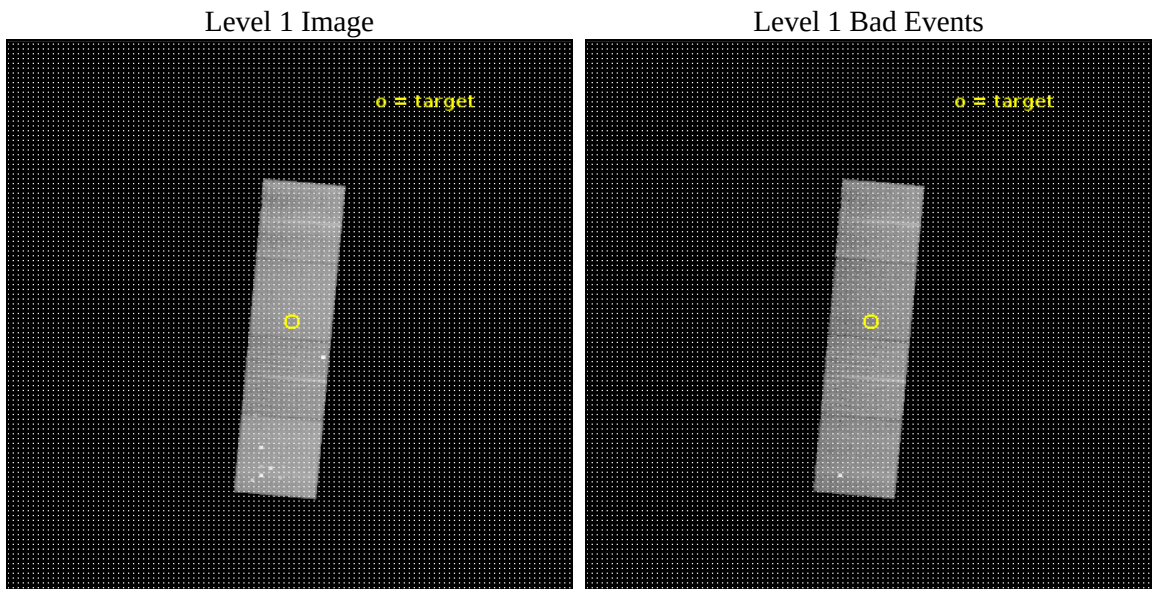
seq_num	502681	Sequence number
obs_id	19031	Observation id
title	Chandra Observations of Extreme Mass Loss from the Progenitors of Luminous Type II _n SNe	Proposal title
observer	Maria Drout	Principal investigator
object	PS12bli	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	334.41625	Observer's specified target RA [deg]
dec_targ	0.626556	Observer's specified target Dec [deg]
ra_nom	334.42096402041	Nominal RA [deg]
dec_nom	0.62302446352209	Nominal Dec [deg]
roll_nom	275.1565799917	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20063.002264261	Sum of GTIs [s]
livetime	19800.864369511	Livetime [s]
ontime5	20062.961224318	Sum of GTIs [s]
ontime6	20050.355862856	Sum of GTIs [s]
ontime7	20063.002264261	Sum of GTIs [s]
ontime8	20062.879144311	Sum of GTIs [s]
l2events	190323	Number of level 2 events



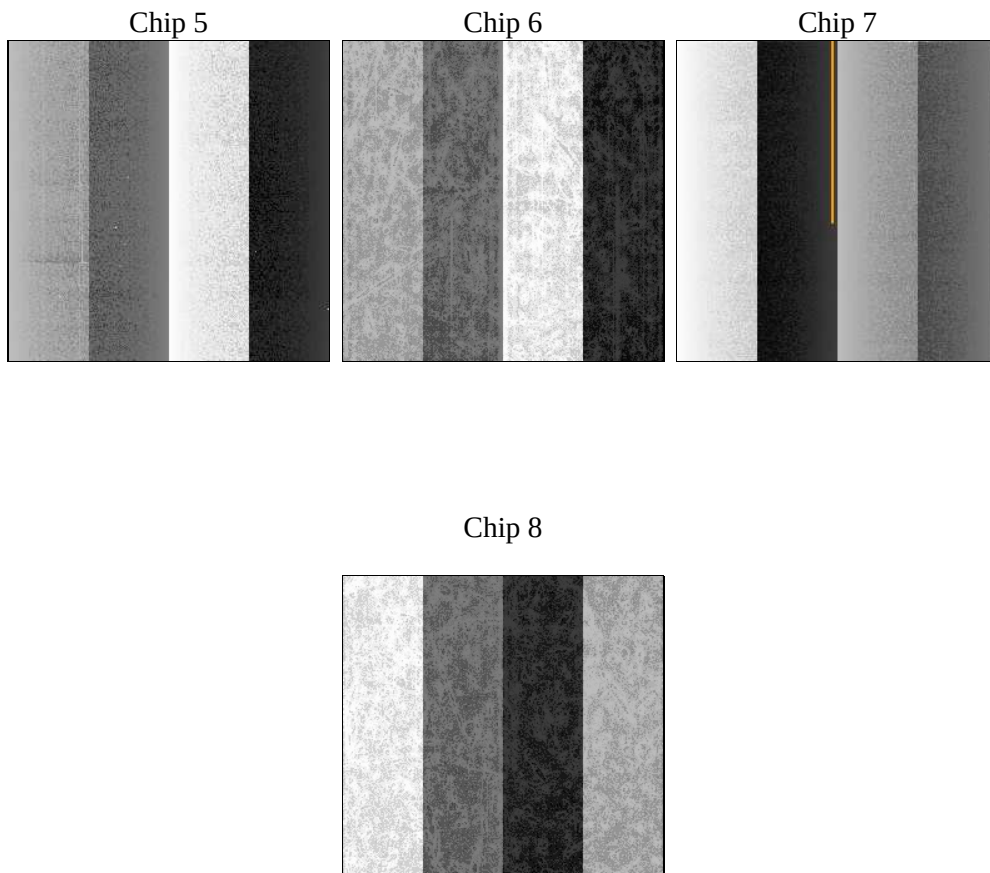
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20063.002264261	Sum of GTIs [s]
caldsver	4.7.6	 	ontime5	20062.961224318	Sum of GTIs [s]
date	2017-09-26T04:42:39	Date and time of file creation	ontime6	20050.355862856	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20063.002264261	Sum of GTIs [s]
			ontime8	20062.879144311	Sum of GTIs [s]
			l1events	716866	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	227996	147846	169692	171332
rejected events	115989	122119	96940	127850
rejected %	50%	82%	57%	74%

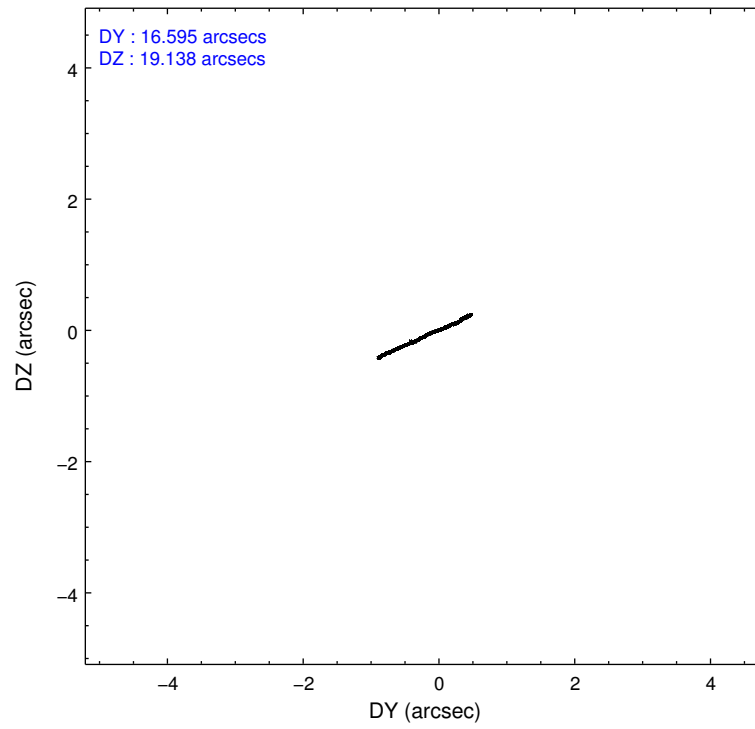
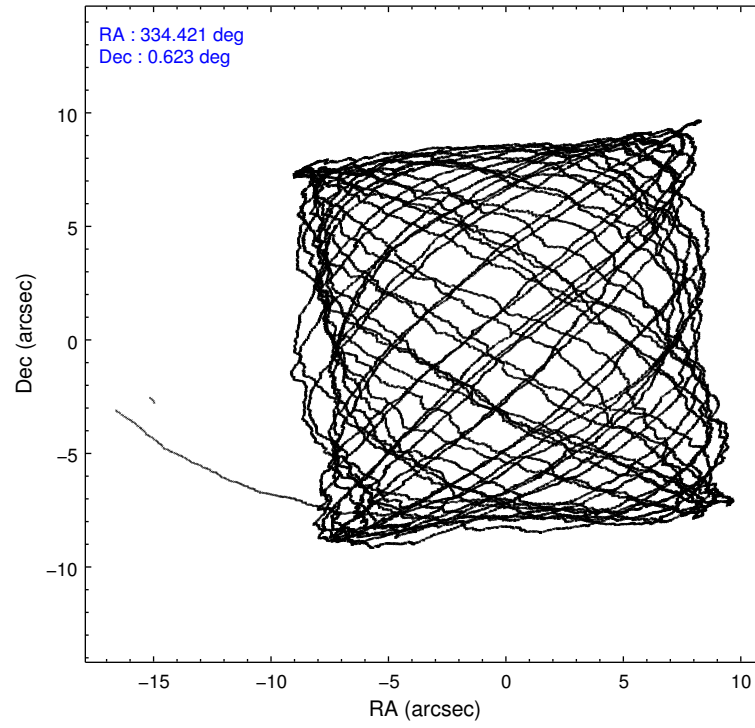
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	19536	4524	6043	12126
	8%	3%	3%	7%
grade 1 events	598	50	241	110
	0%	0%	0%	0%
grade 2 events	31350	14776	14793	10525
	13%	9%	8%	6%
grade 3 events	2984	1235	5872	4541
	1%	0%	3%	2%
grade 4 events	2749	1257	5723	4311
	1%	0%	3%	2%
grade 5 events	13069	5842	16821	9069
	5%	3%	9%	5%
grade 6 events	55423	3942	40342	11994
	24%	2%	23%	7%
grade 7 events	102287	116220	79857	118656
	44%	78%	47%	69%

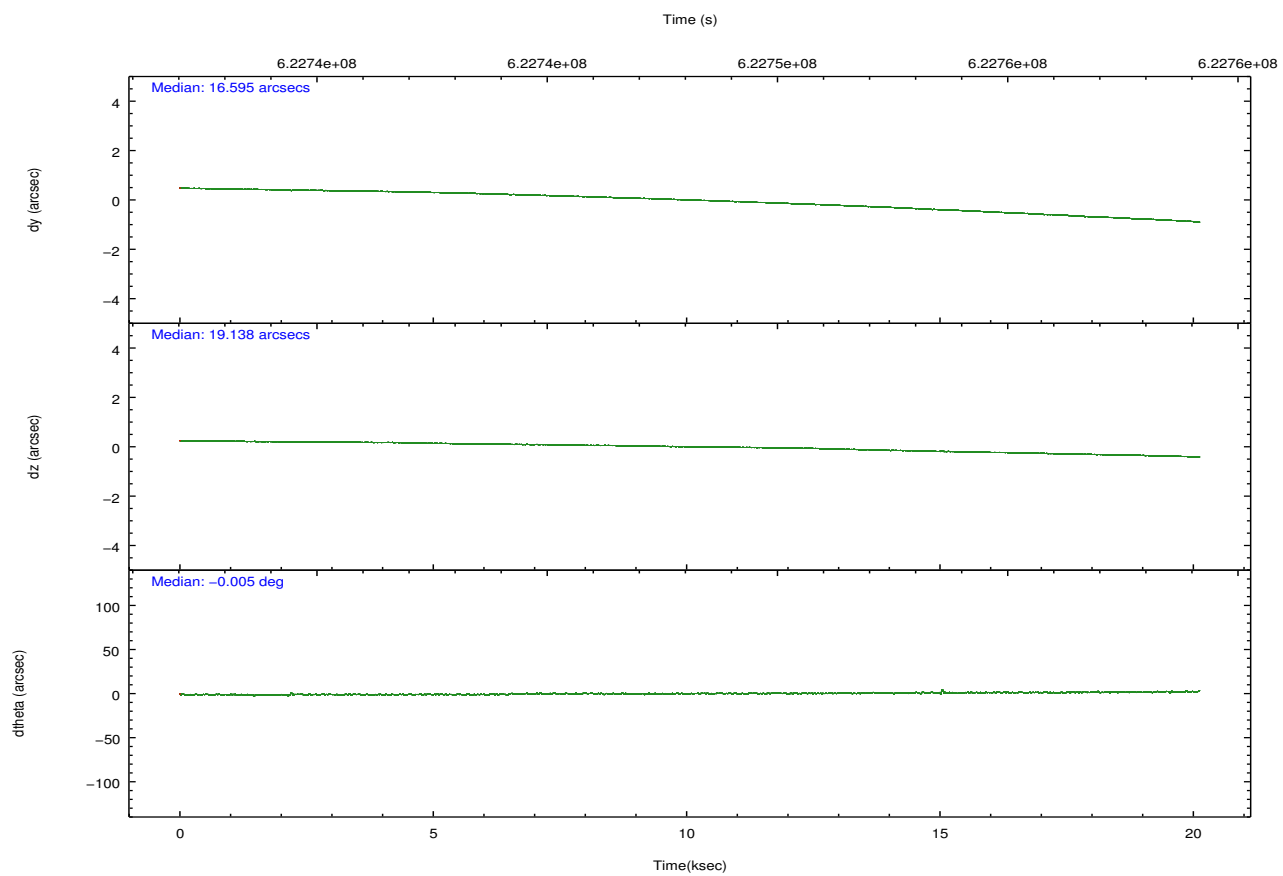
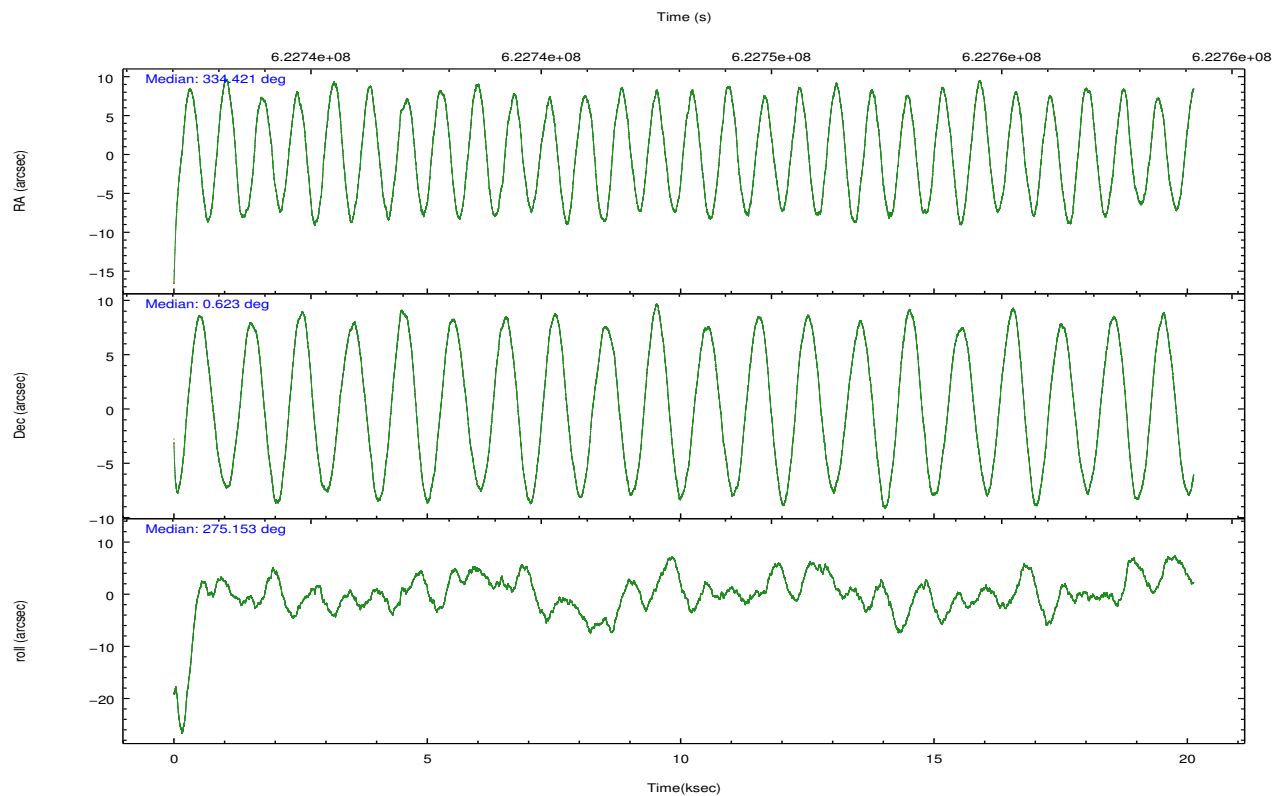
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	334.404855	334.4209640204137
[deg] Pointing Dec	0.645262	0.6230244635220855
[deg] Pointing Roll	275.000122	275.1565799916991
[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)	622738149.184000	622736833.38341
Observation start date	2017-09-25T14:48:00	2017-09-25T14:27:13
[s] Observation end time (MET)	622758149.184000	622759215.2847199
Observation end date	2017-09-25T20:21:20	2017-09-25T20:40:15
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
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	O1	N
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



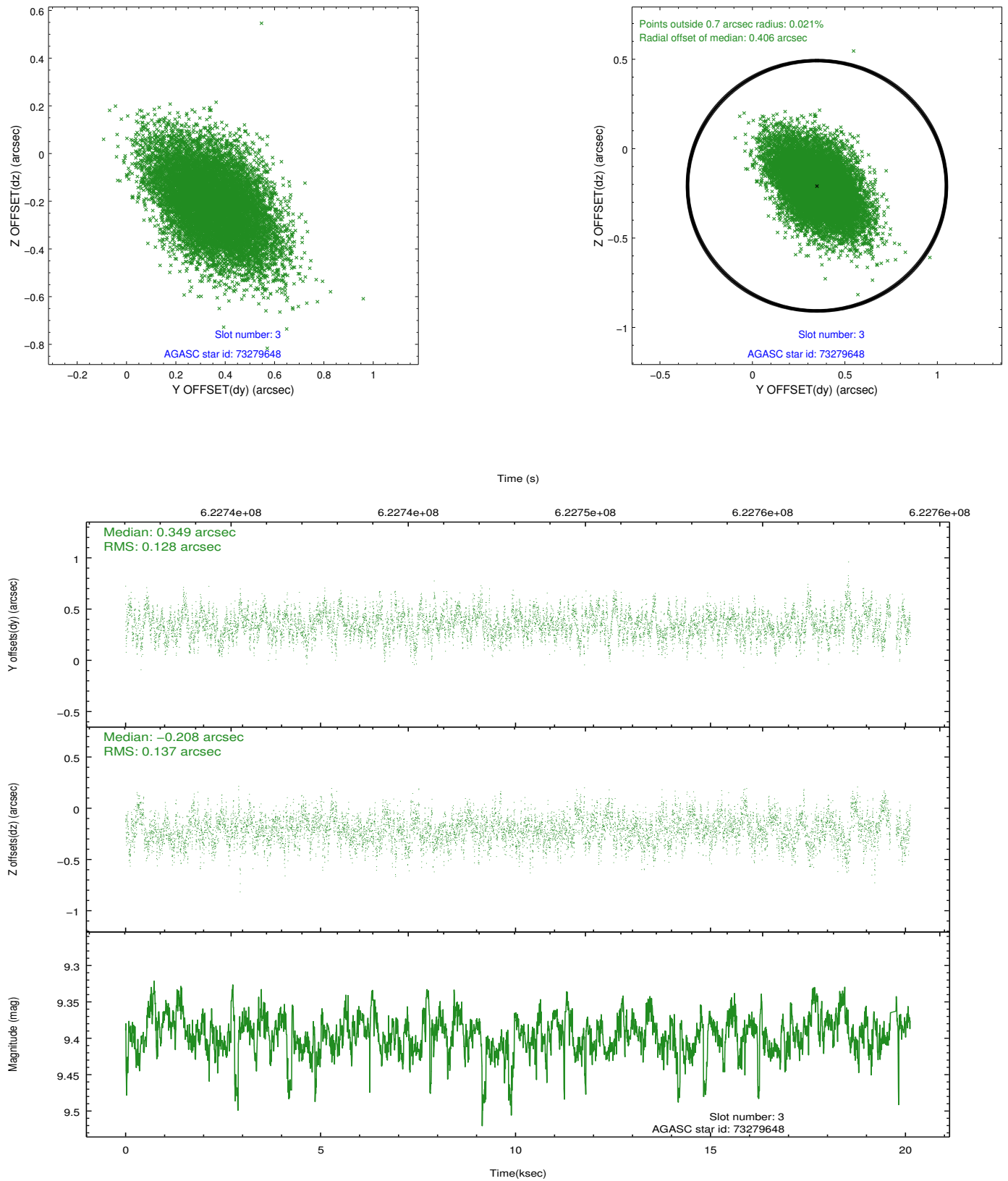


Slot Statistics

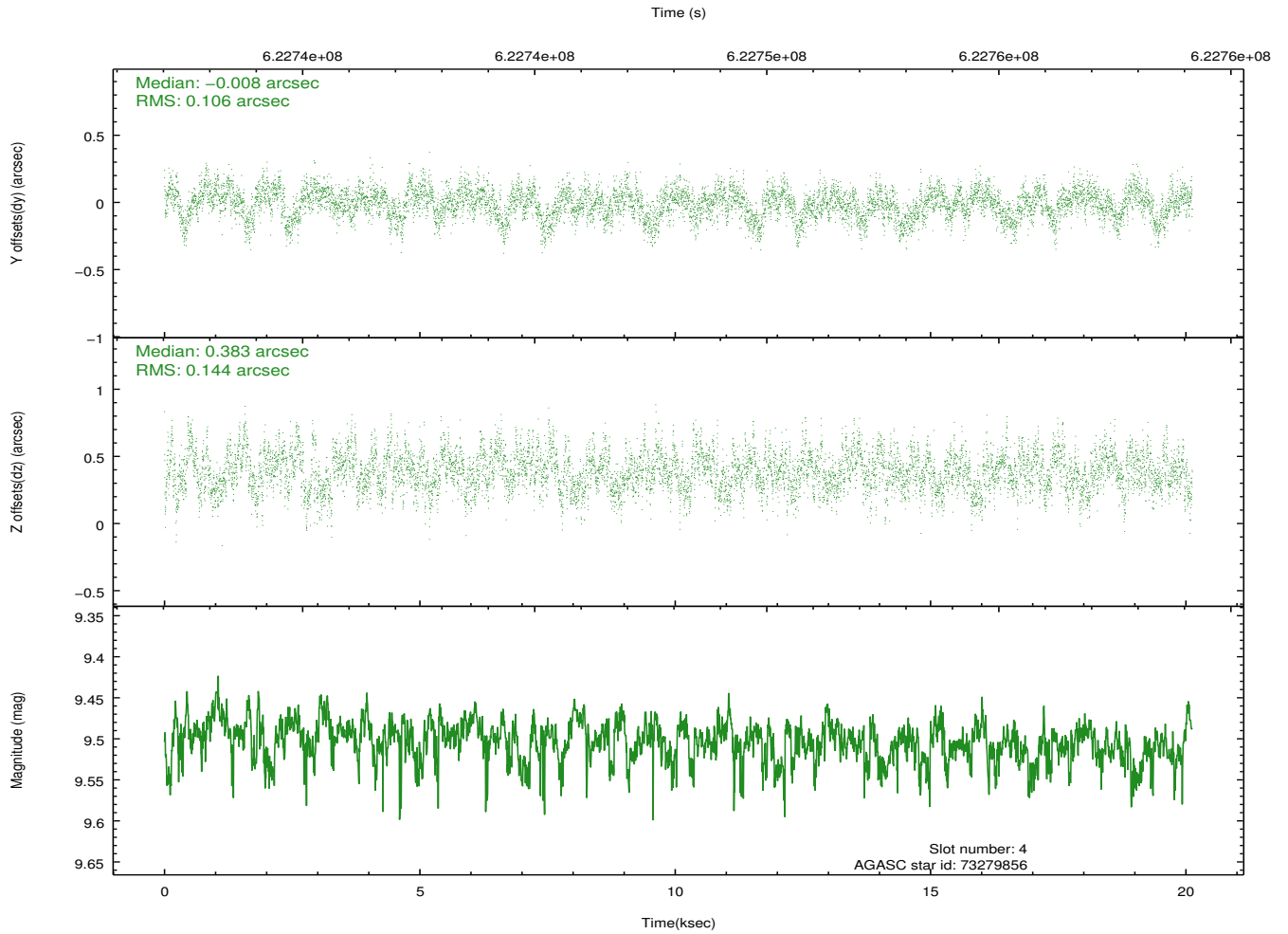
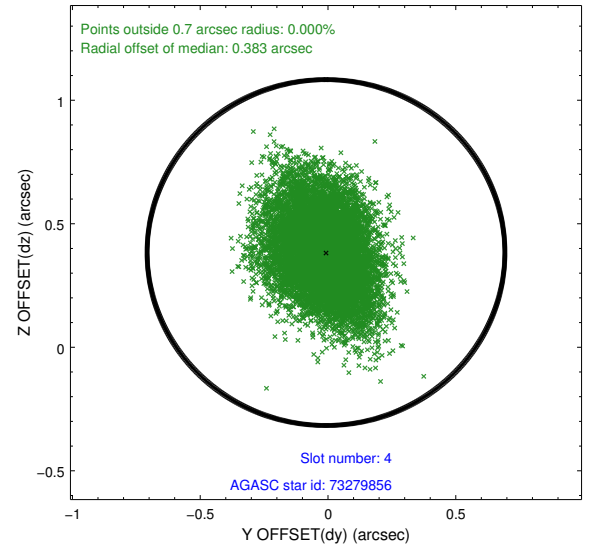
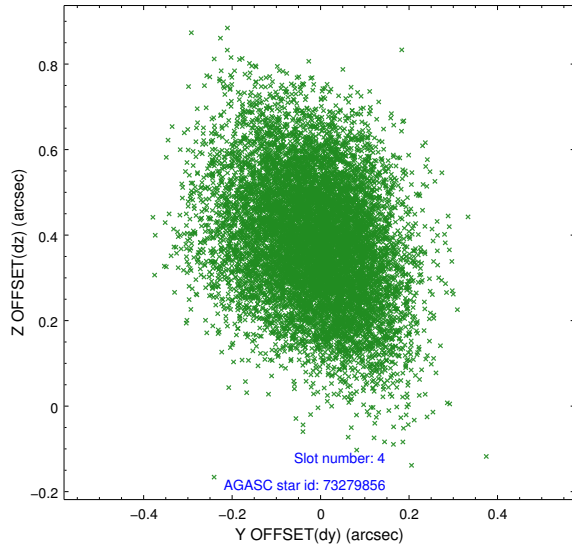
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	4909	-0.210	-0.122	0.011	0.019	0.000000	0.000000	-769.71	-1740.74
1	FID		ACIS-S-4	7.25	4909	0.516	0.133	0.008	0.013	0.000000	0.000000	2144.17	167.86
2	FID		ACIS-S-5	7.24	4909	-0.337	-0.003	0.011	0.018	0.000000	0.000000	-1822.48	161.54
3	GUIDE	used	73279648	9.39	9738	0.349	-0.208	0.195	0.332	333.975275	0.037033	2047.27	-1731.41
4	GUIDE	used	73279856	9.50	9801	-0.008	0.383	0.191	0.312	334.263964	1.139769	-1817.36	-349.14
5	GUIDE	used	73283152	8.81	9809	-0.019	-0.119	0.159	0.264	334.629700	0.871456	-740.60	877.28
6	GUIDE	used	73284256	9.05	9808	0.016	0.097	0.165	0.286	334.189661	0.525540	362.16	-808.84
7	GUIDE	used	73284464	9.79	9780	-0.346	-0.150	0.222	0.373	334.806399	0.518242	581.92	1400.28

2.4 Star Slots

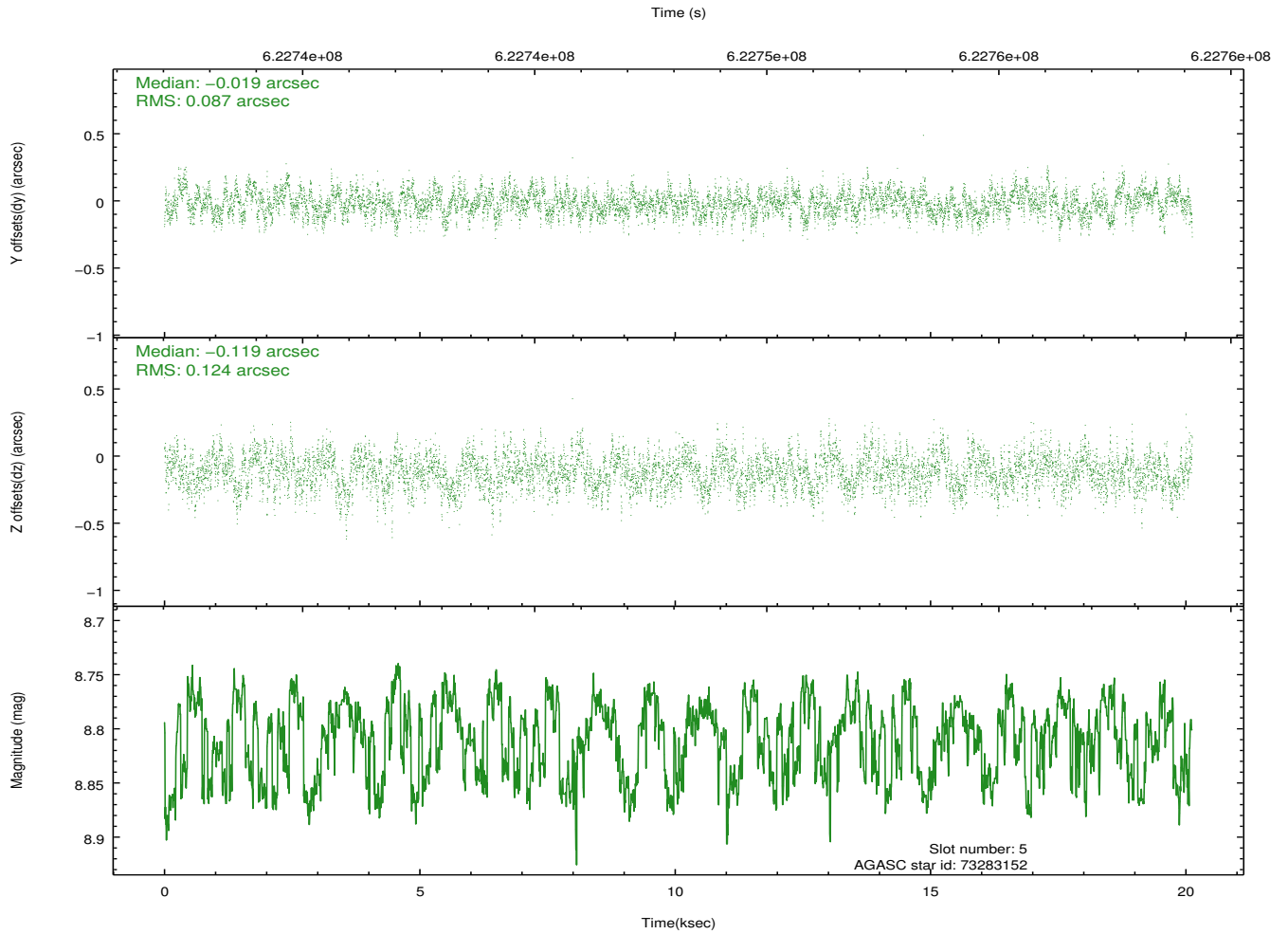
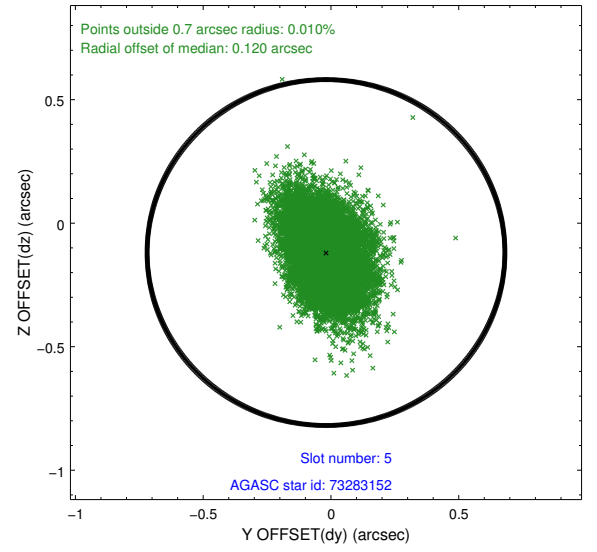
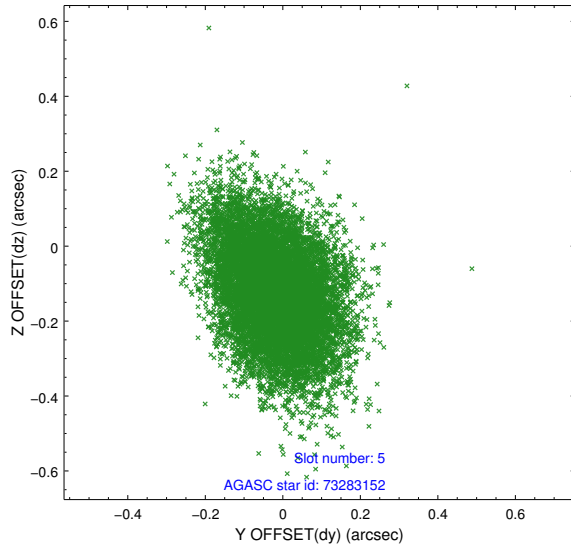
2.4.1 Slot 3



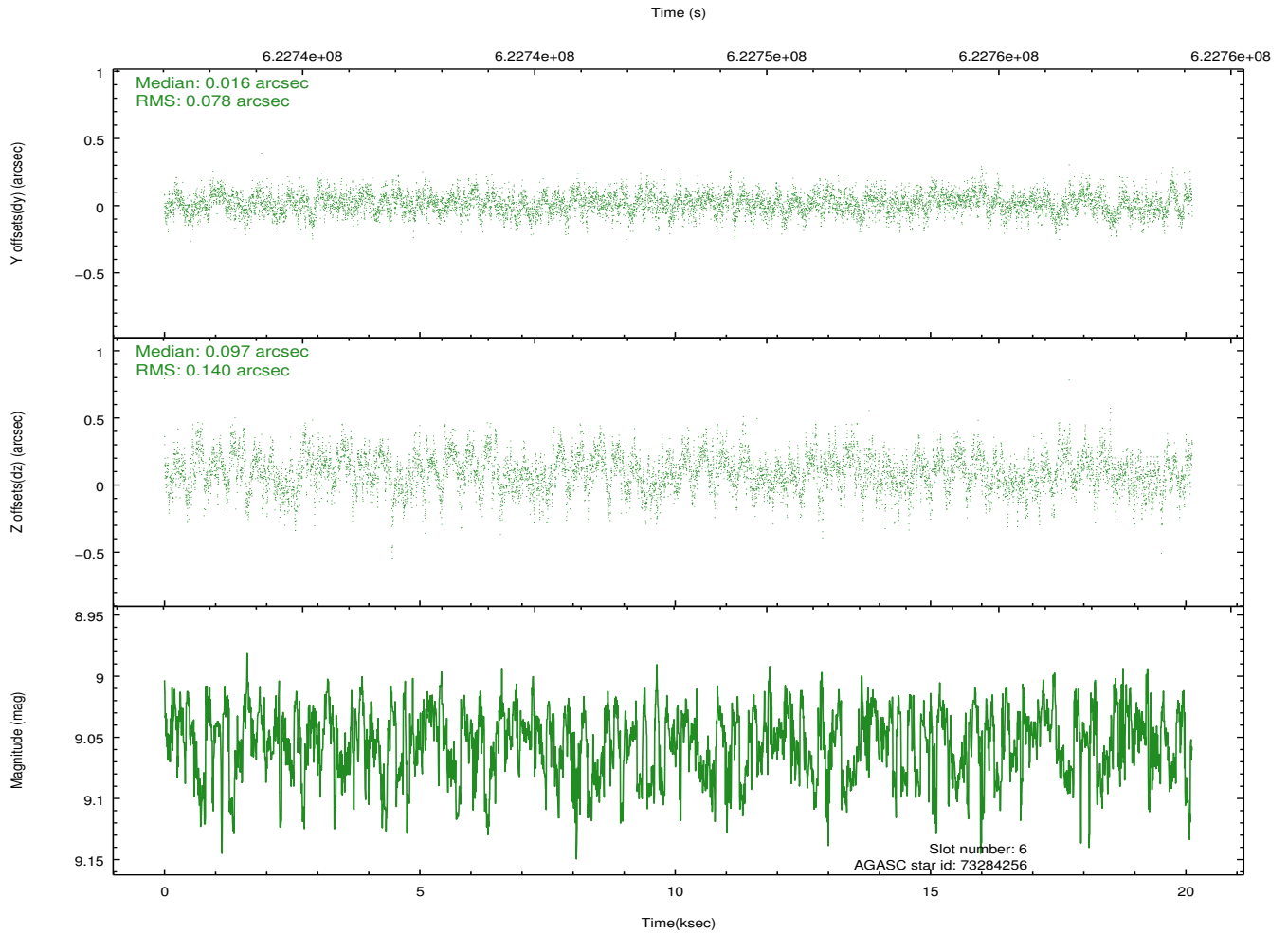
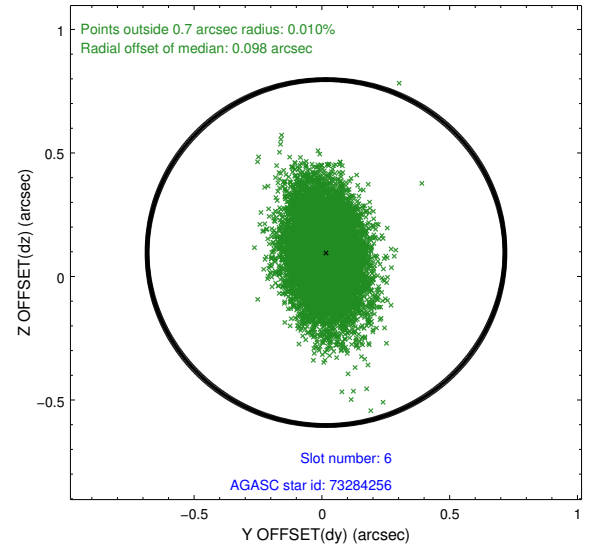
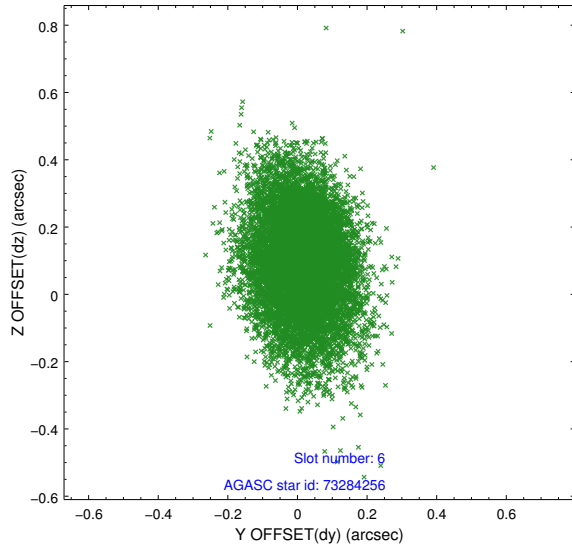
2.4.2 Slot 4



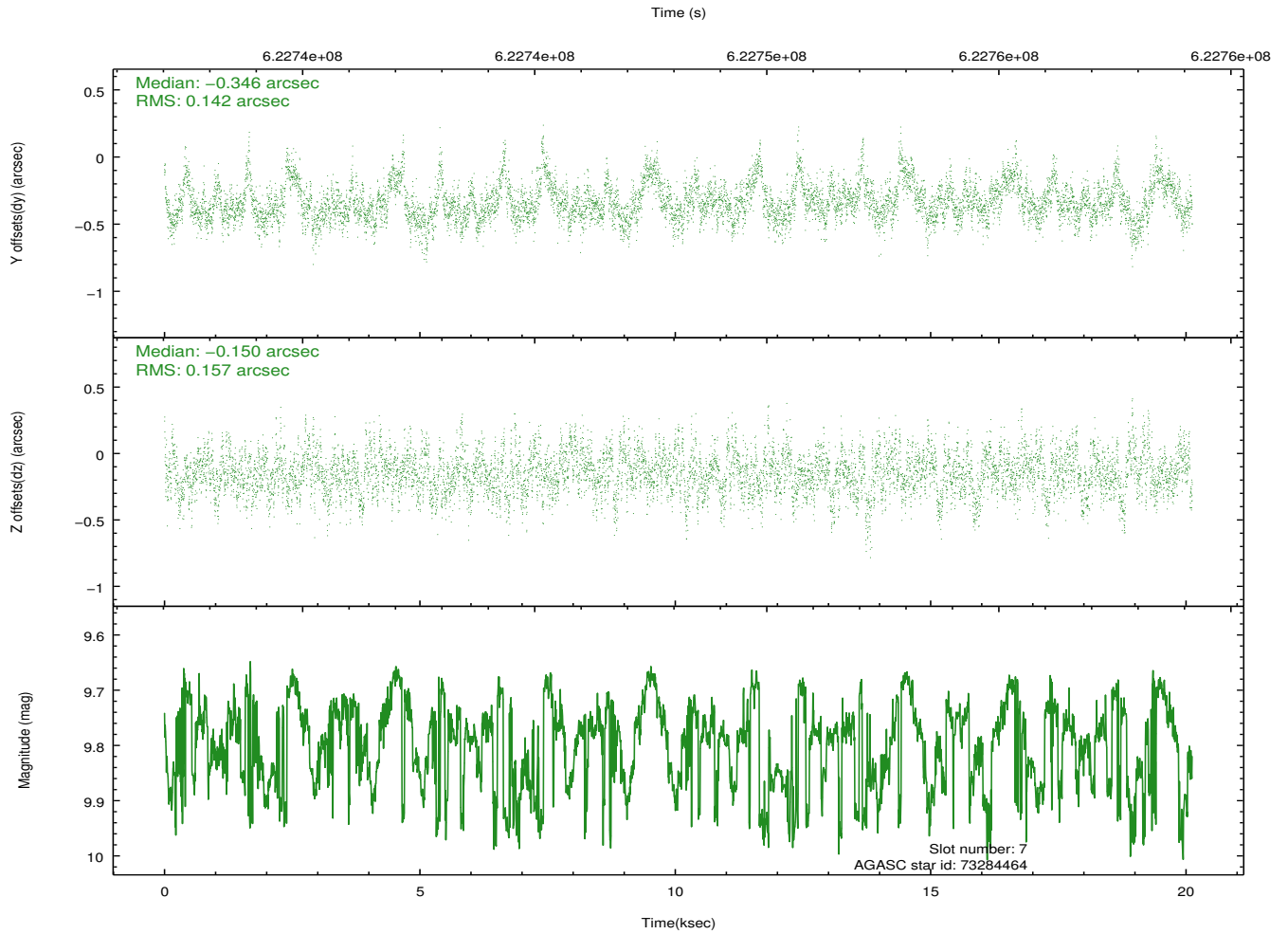
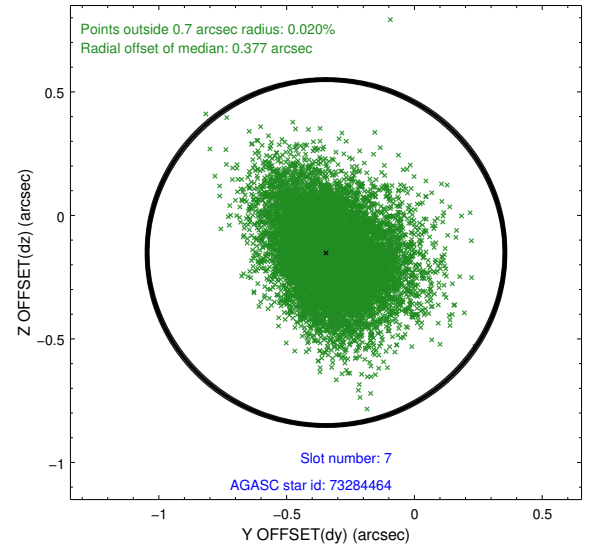
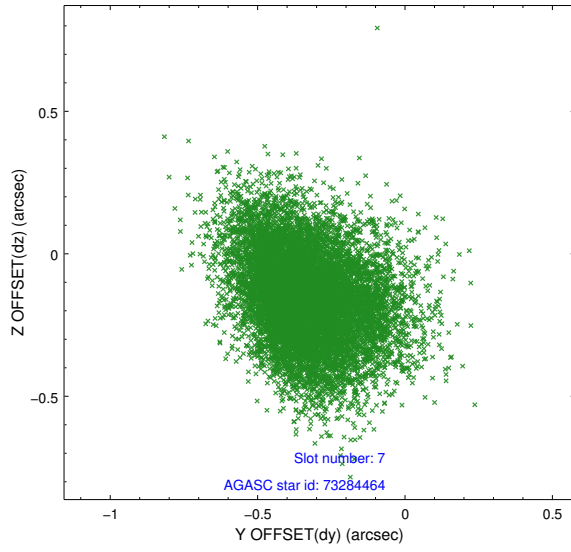
2.4.3 Slot 5



2.4.4 Slot 6

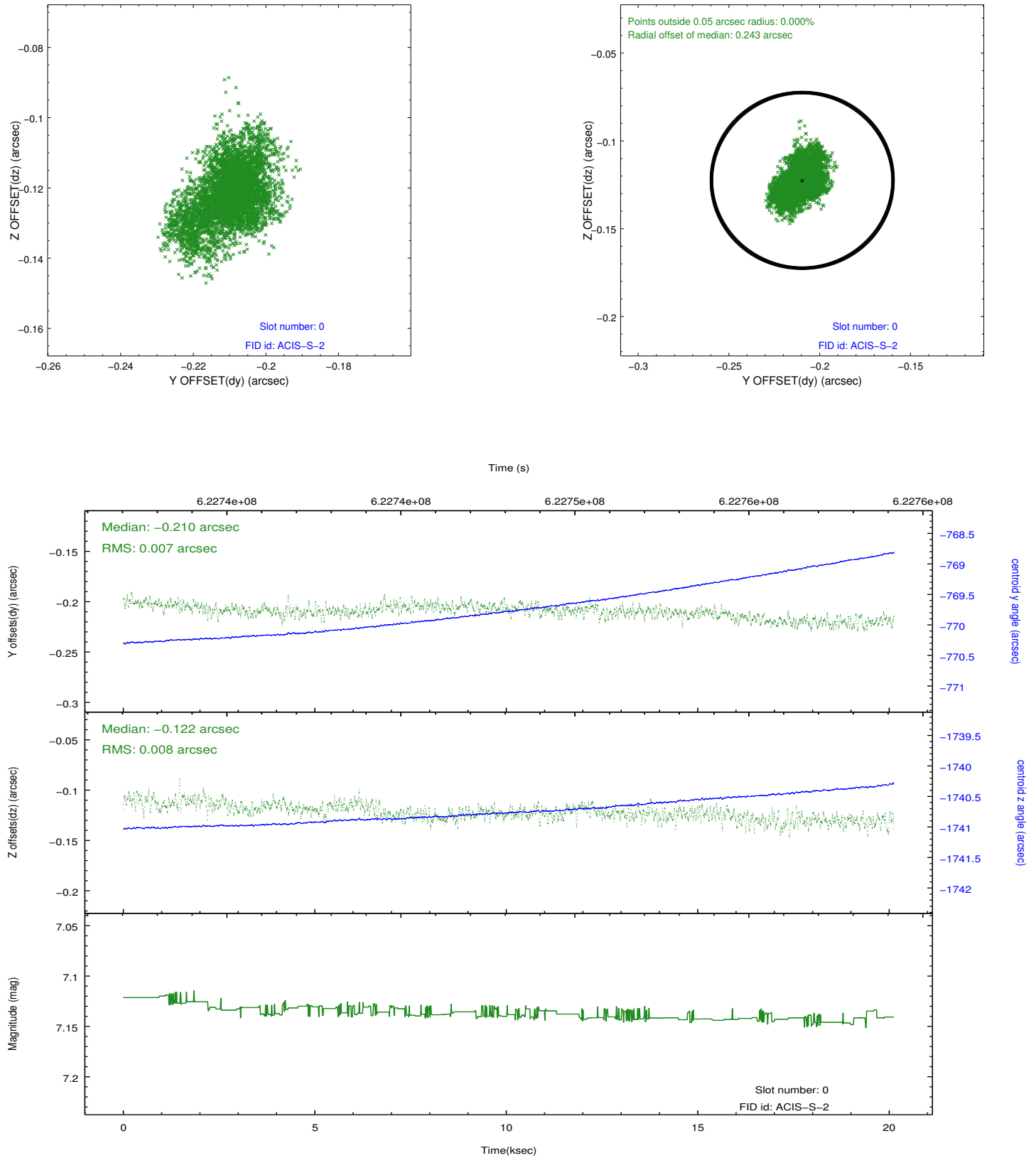


2.4.5 Slot 7

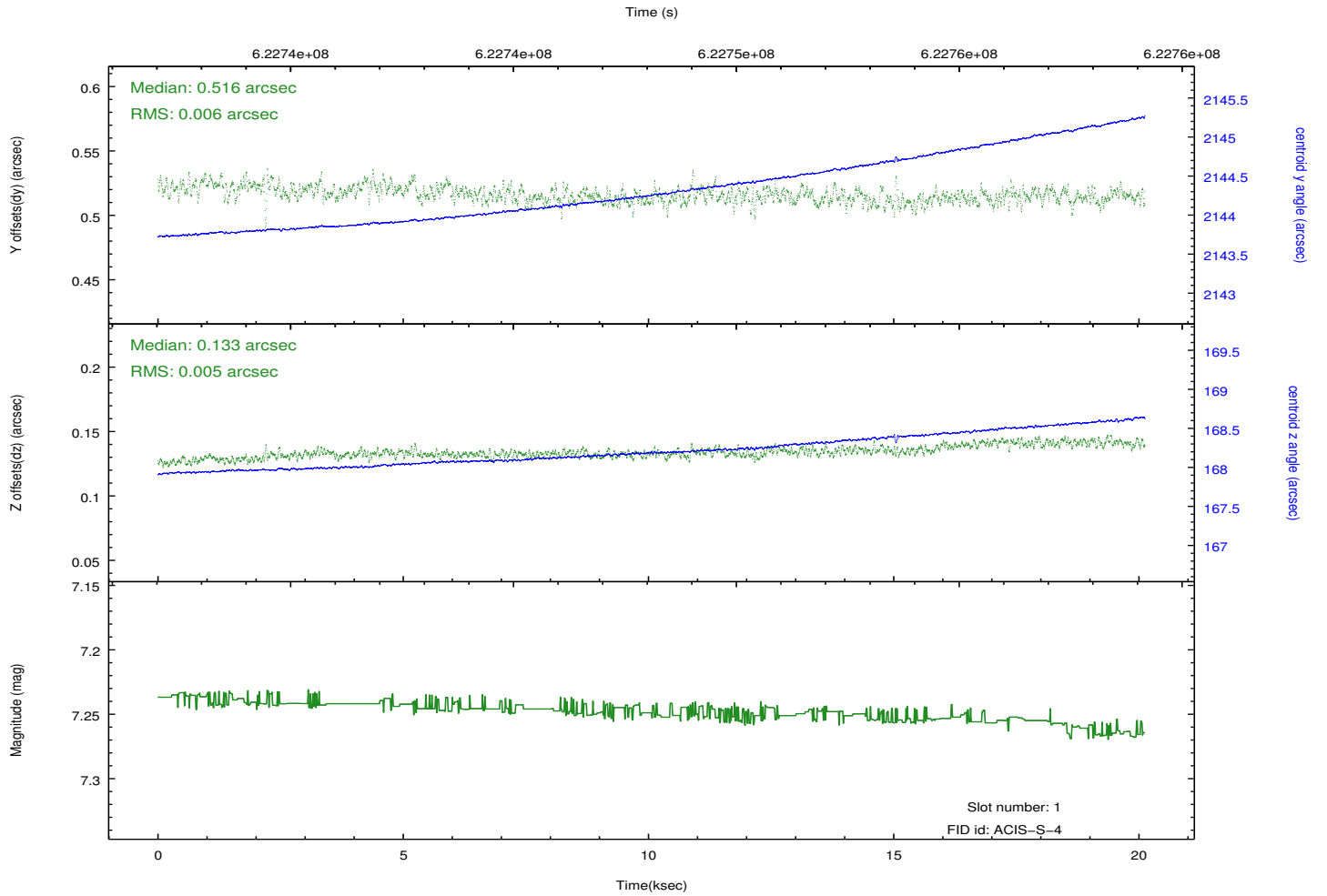
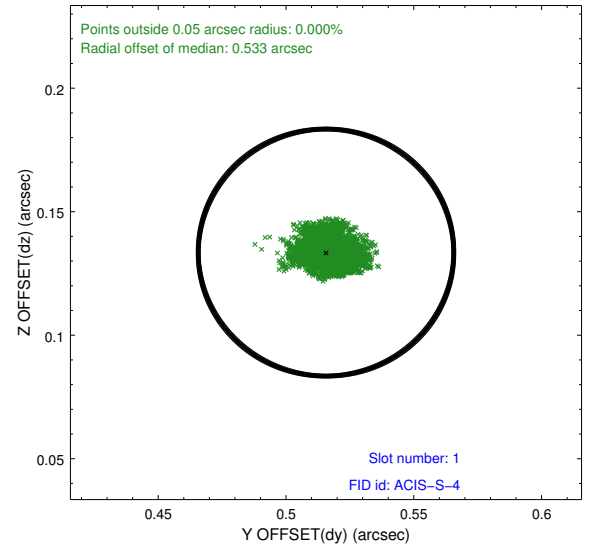
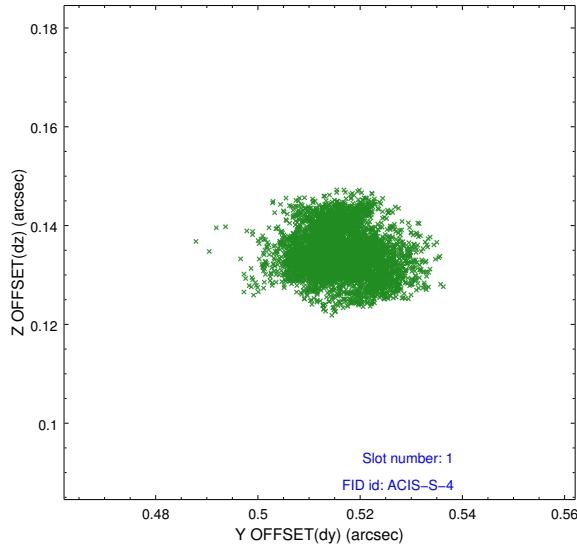


2.5 FID Slots

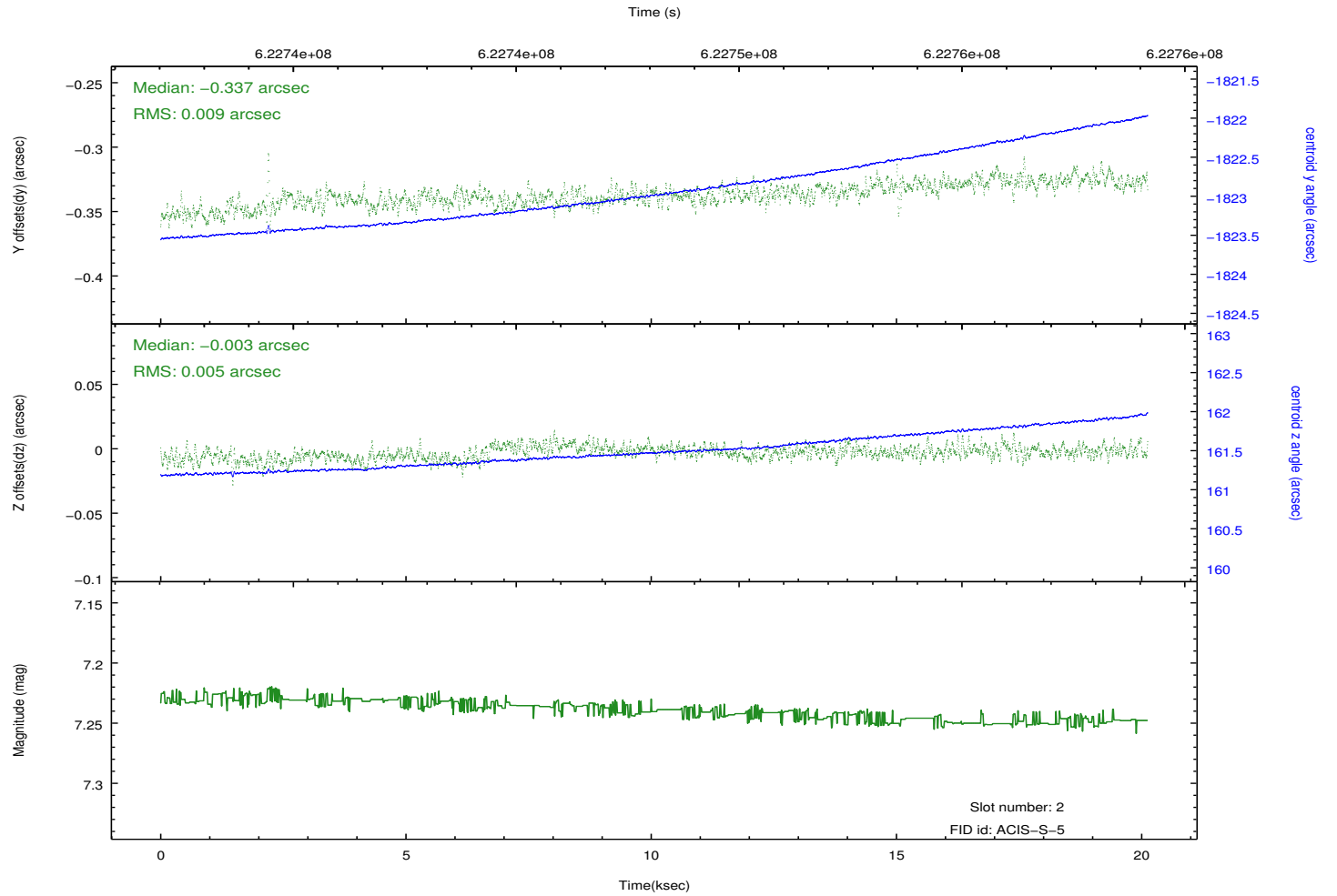
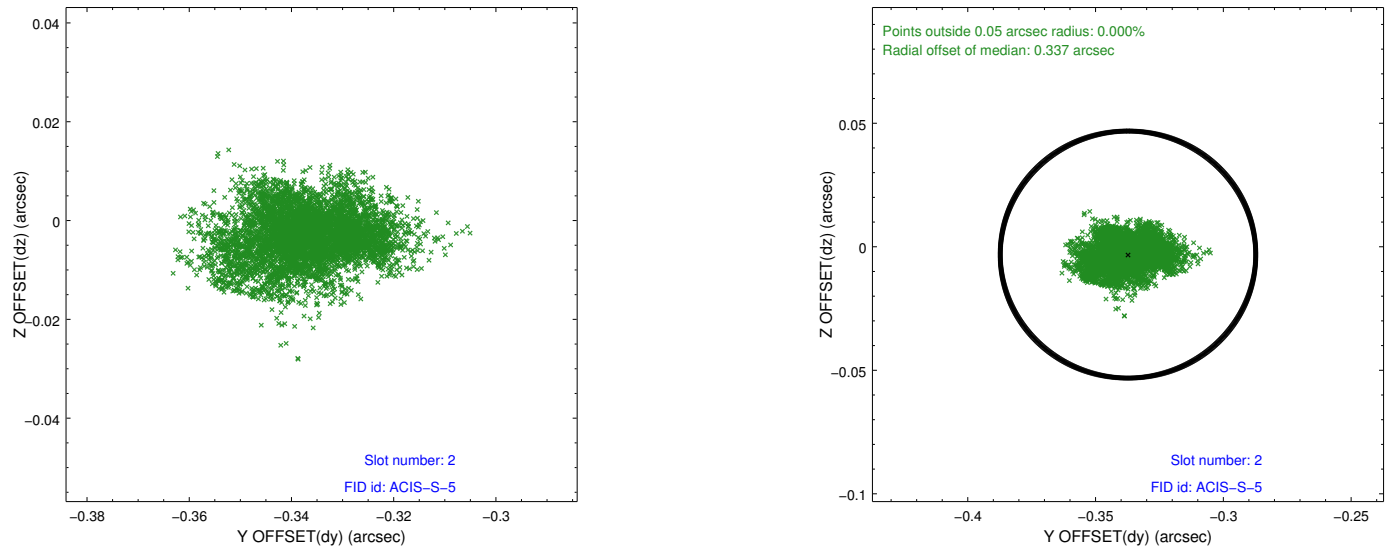
2.5.1 Slot 0



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)	2017.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.063002264261

A.2 Comments