

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19595 - L2 Version 1
Chandra X-Ray Center

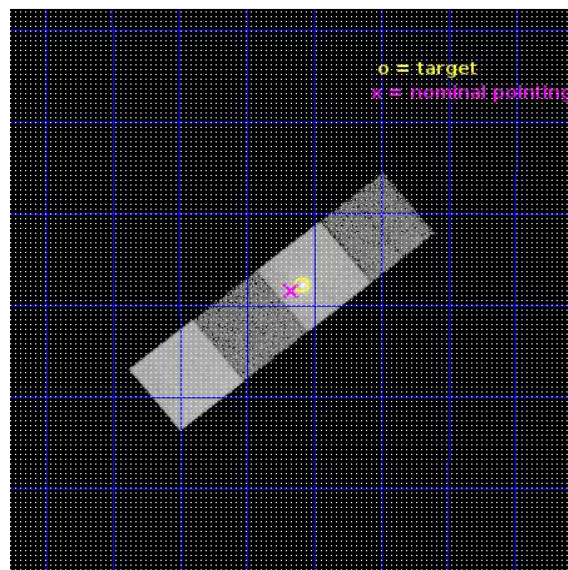
L2 Processing Date : Oct 1 2016

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1 Front

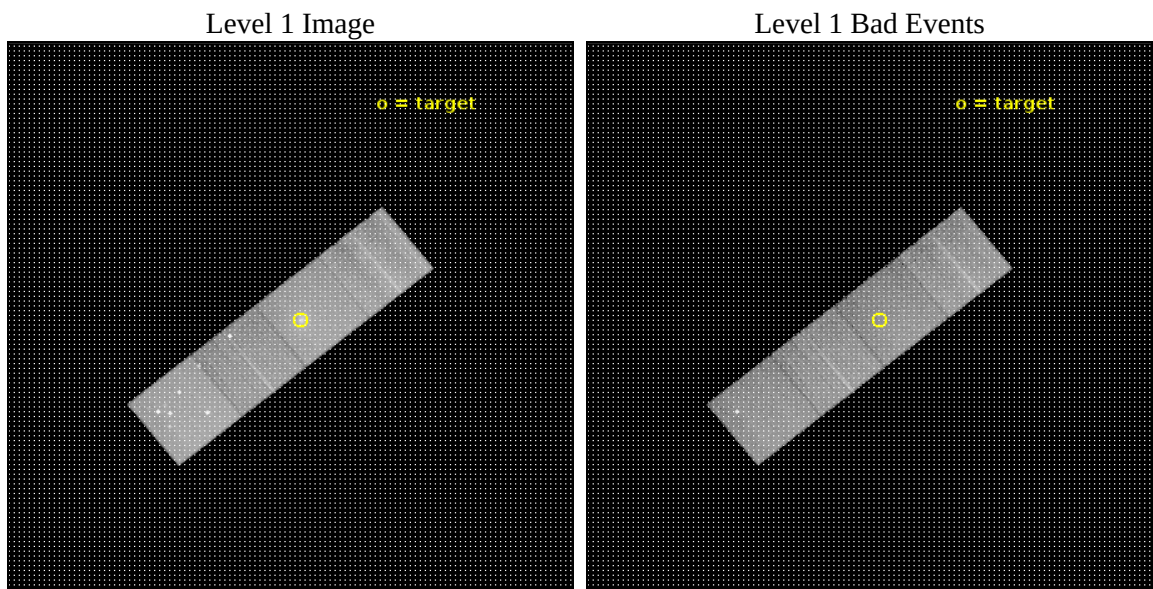
seq_num	801684	Sequence number
obs_id	19595	Observation id
title	The link between optical lines and X-ray sloshing in two unusual clusters	Proposal title
observer	Alastair Edge	Principal investigator
object	Abell 2566	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.02125	Observer's specified target RA [deg]
dec_targ	-20.463889	Observer's specified target Dec [deg]
ra_nom	349.04222924138	Nominal RA [deg]
dec_nom	-20.473724486595	Nominal Dec [deg]
roll_nom	321.09111130473	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20052.446508765	Sum of GTIs [s]
livetime	19790.446532732	Livetime [s]
ontime5	20052.405468822	Sum of GTIs [s]
ontime6	20049.223358512	Sum of GTIs [s]
ontime7	20052.446508765	Sum of GTIs [s]
ontime8	20052.323388815	Sum of GTIs [s]
l2events	212620	Number of level 2 events



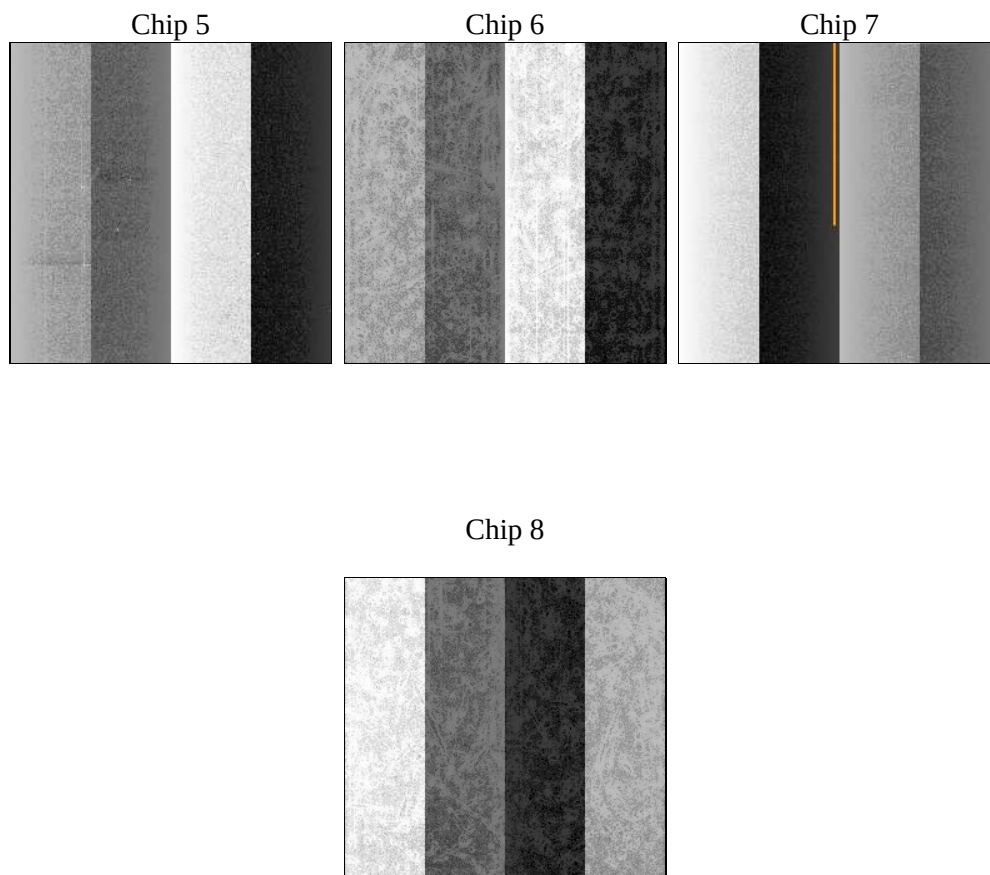
2 OBI

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	10.5.1.1	Processing system revision	ontime	20052.446508765	Sum of GTIs [s]
caldsver	4.7.2	 	ontime5	20052.405468822	Sum of GTIs [s]
date	2016-10-01T13:31:30	Date and time of file creation	ontime6	20049.223358512	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20052.446508765	Sum of GTIs [s]
			ontime8	20052.323388815	Sum of GTIs [s]
			l1events	730090	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	227506	140042	190048	172494
rejected events	111432	118181	97103	127260
rejected %	48%	84%	51%	73%

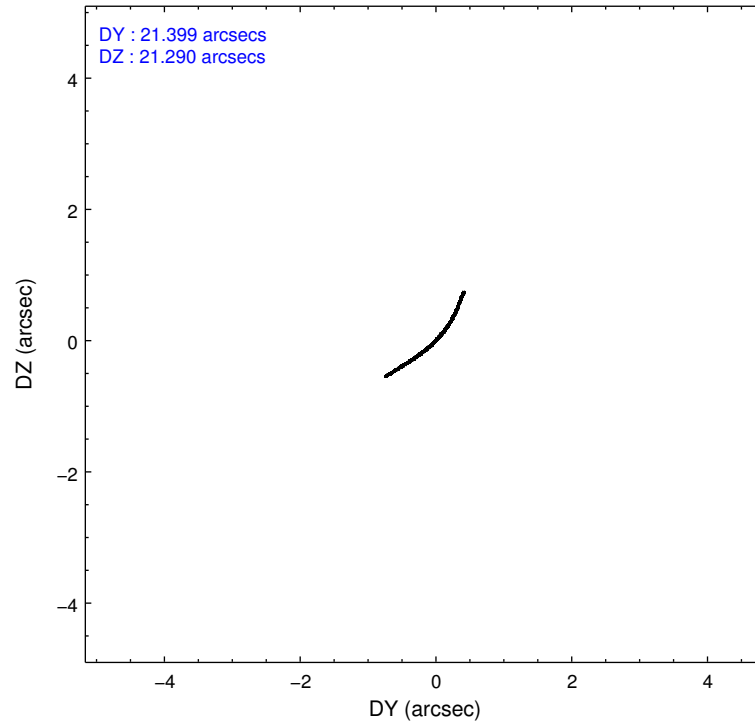
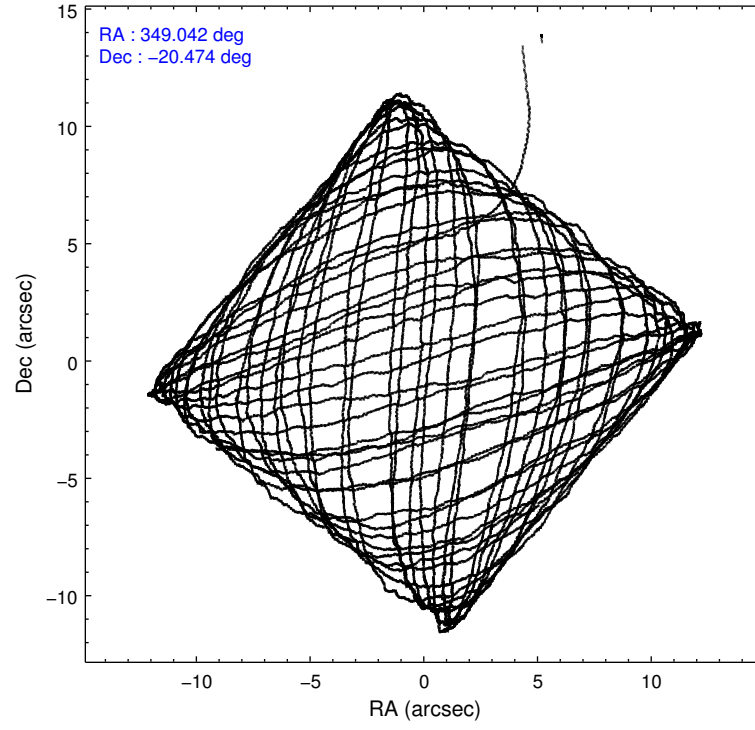
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	21350	5598	12030	12291
	9%	3%	6%	7%
grade 1 events	466	84	229	120
	0%	0%	0%	0%
grade 2 events	33206	9708	20546	11597
	14%	6%	10%	6%
grade 3 events	3669	1491	8163	4439
	1%	1%	4%	2%
grade 4 events	3498	1536	8098	4287
	1%	1%	4%	2%
grade 5 events	14651	6412	17382	9414
	6%	4%	9%	5%
grade 6 events	54368	3532	44126	12637
	23%	2%	23%	7%
grade 7 events	96298	111681	79474	117709
	42%	79%	41%	68%

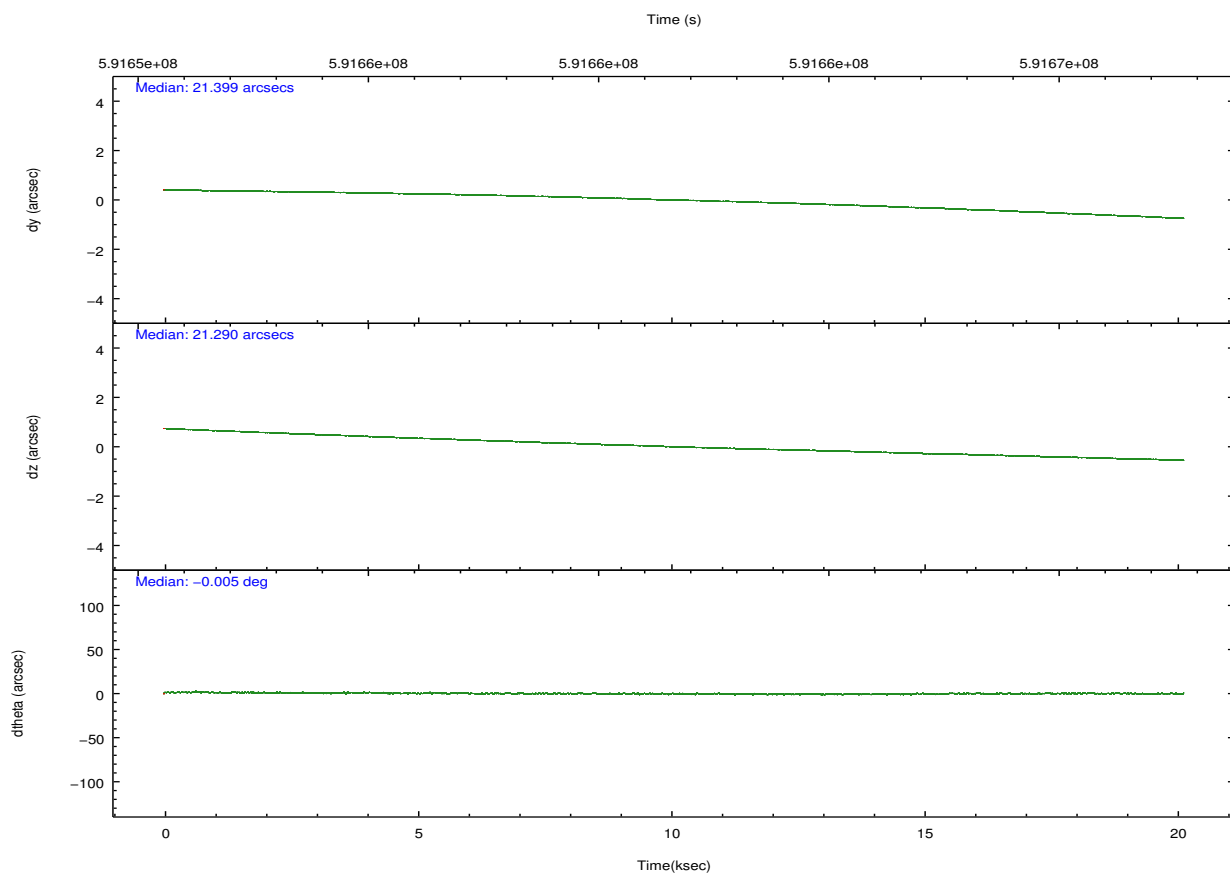
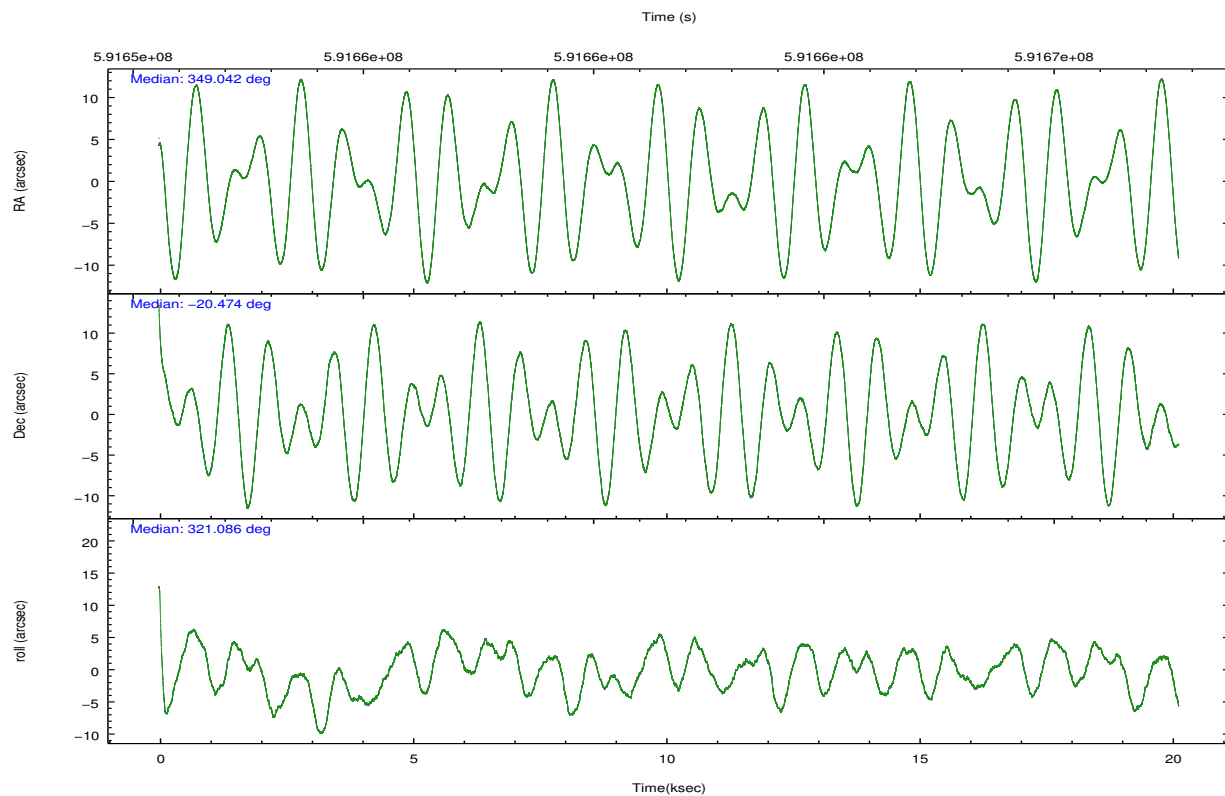
2.2 Compared Parameters

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	349.013233	349.0422292413818
[deg] Pointing Dec	-20.469842	-20.47372448659533
[deg] Pointing Roll	320.924328	321.0911113047282
[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)	591651689.184000	591650409.66608
Observation start date	2016-09-30T19:40:21	2016-09-30T19:20:09
[s] Observation end time (MET)	591671689.184000	591672588.1048599
Observation end date	2016-10-01T01:13:41	2016-10-01T01:29:48
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	O1	N
CCD I3 on	O2	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	2	2
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



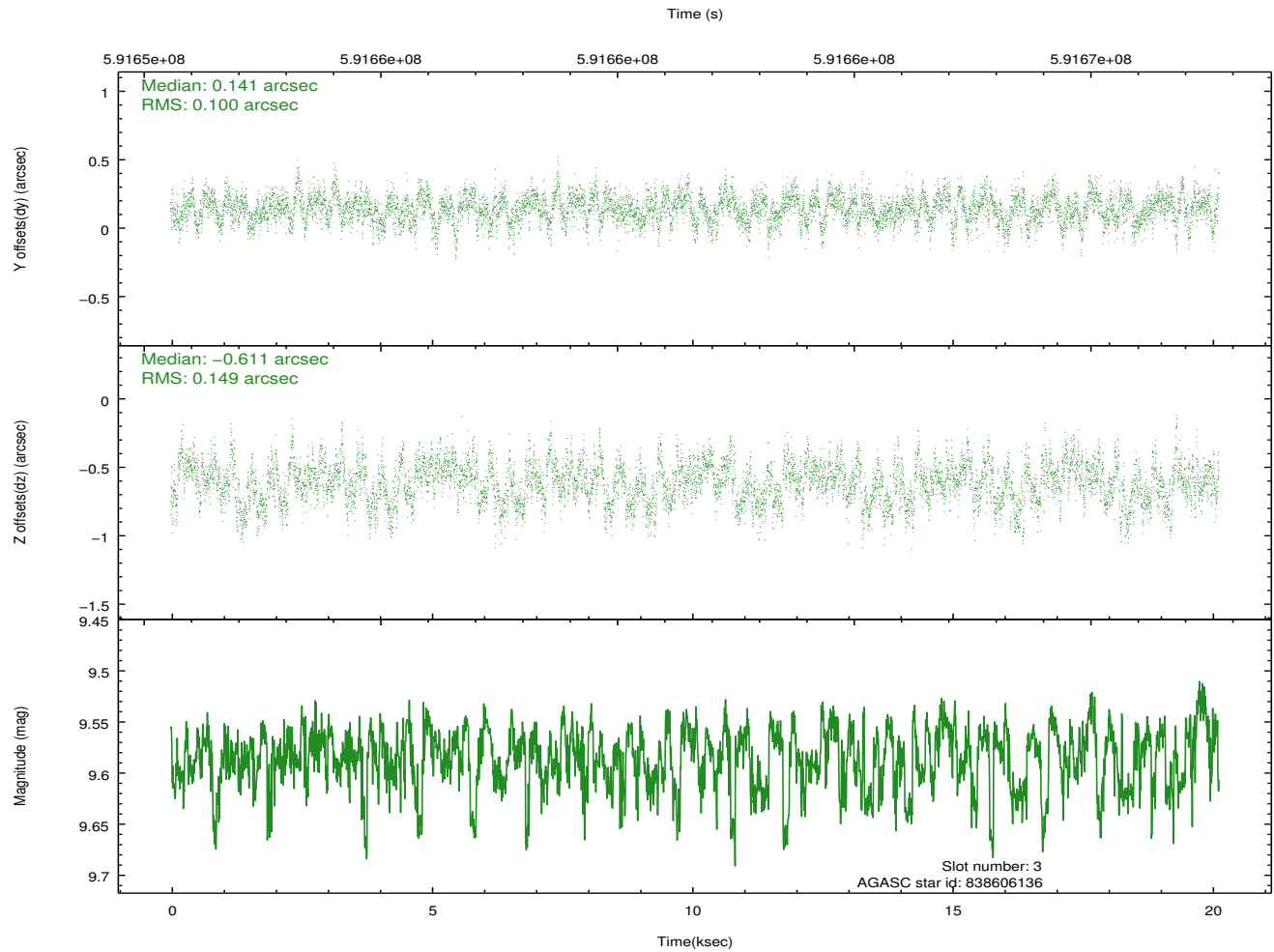
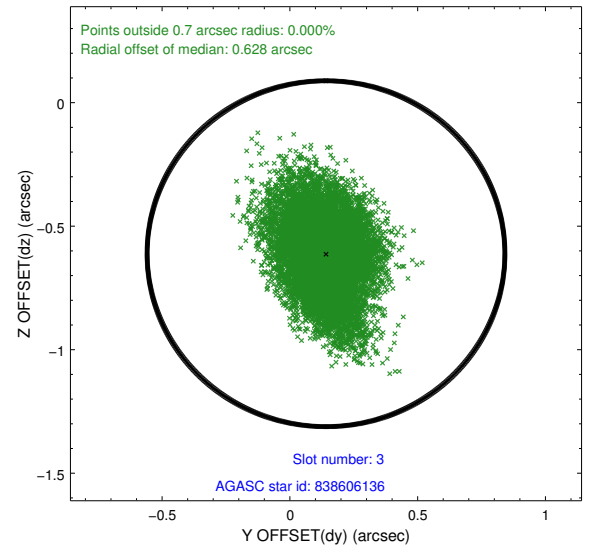
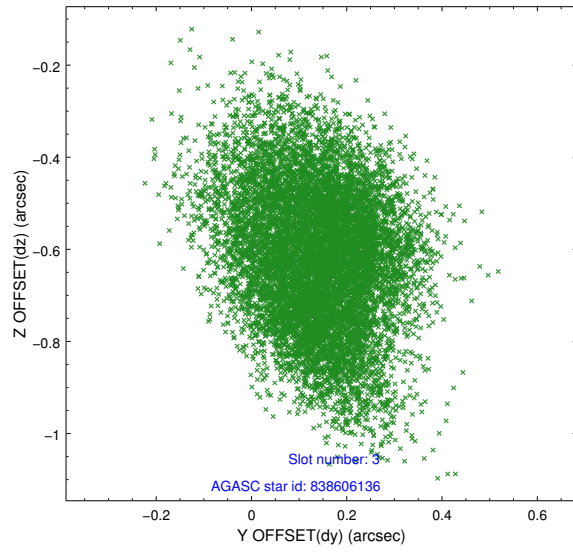


Slot Statistics

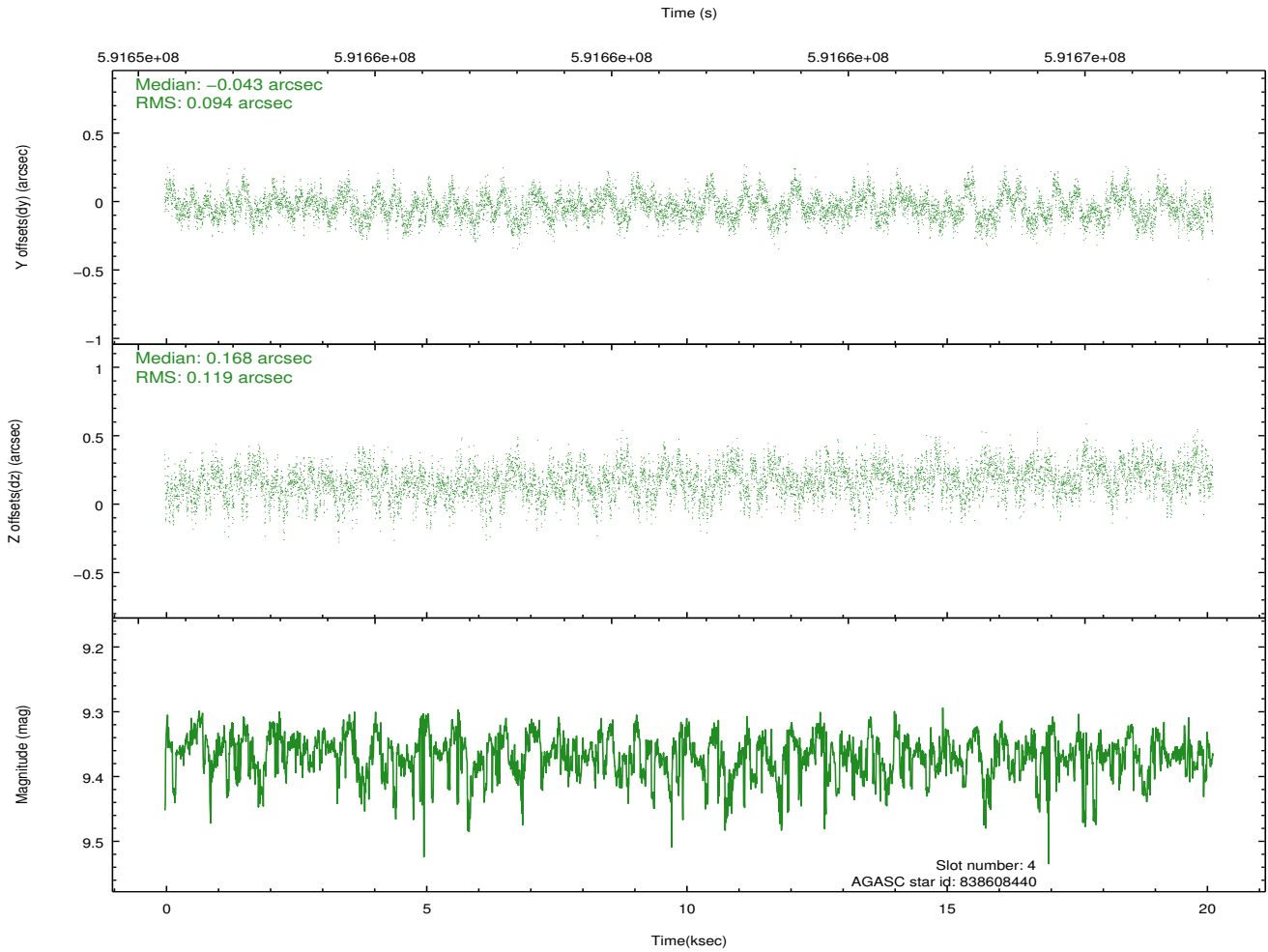
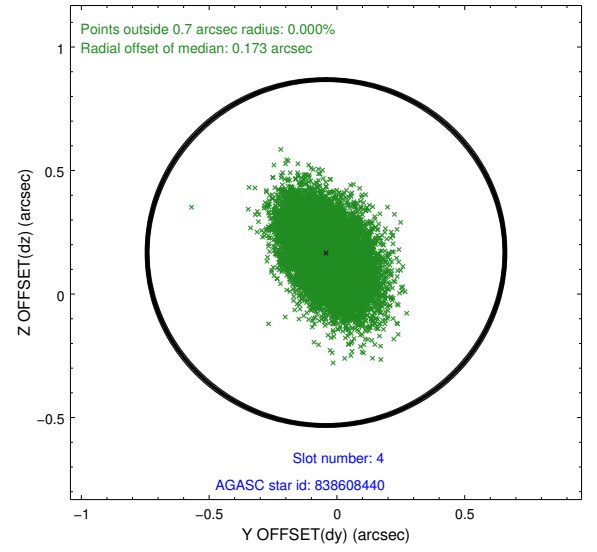
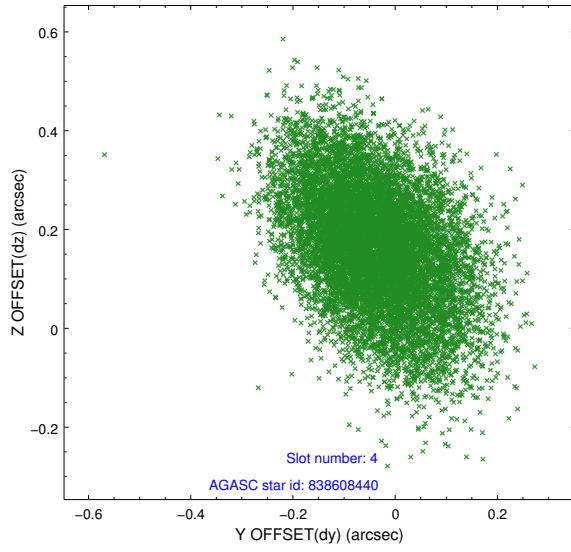
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	4912	-0.239	-0.139	0.017	0.024	0.000000	0.000000	-774.70	-1742.97
1	FID		ACIS-S-4	7.16	4912	0.505	0.152	0.009	0.017	0.000000	0.000000	2139.21	165.64
2	FID		ACIS-S-5	7.16	4912	-0.298	-0.006	0.015	0.025	0.000000	0.000000	-1827.39	159.32
3	GUIDE	used	838606136	9.58	9807	0.141	-0.611	0.189	0.312	349.001844	-19.734927	-1697.19	2029.08
4	GUIDE	used	838608440	9.37	9815	-0.043	0.168	0.160	0.267	349.159605	-19.961820	-768.00	1732.37
5	GUIDE	used	838992600	9.48	9811	0.069	0.104	0.157	0.257	348.564461	-20.789828	-444.36	-1847.48
6	GUIDE	used	838993632	7.17	9823	-0.143	0.023	0.110	0.192	349.207113	-21.203091	2170.76	-1639.53
7	GUIDE	used	839002192	7.88	9821	-0.030	0.316	0.096	0.154	348.646492	-20.018630	-1985.34	478.22

2.4 Star Slots

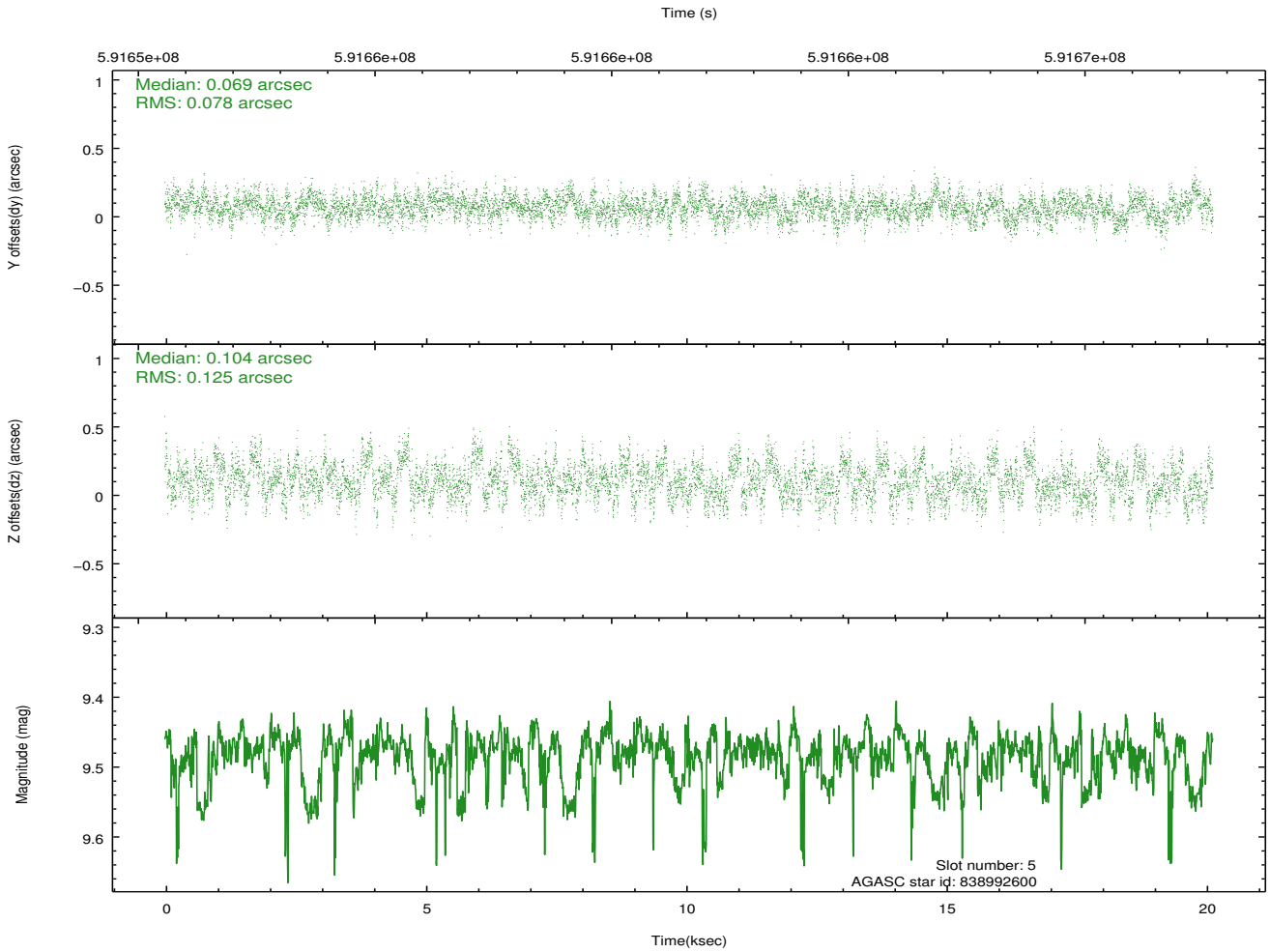
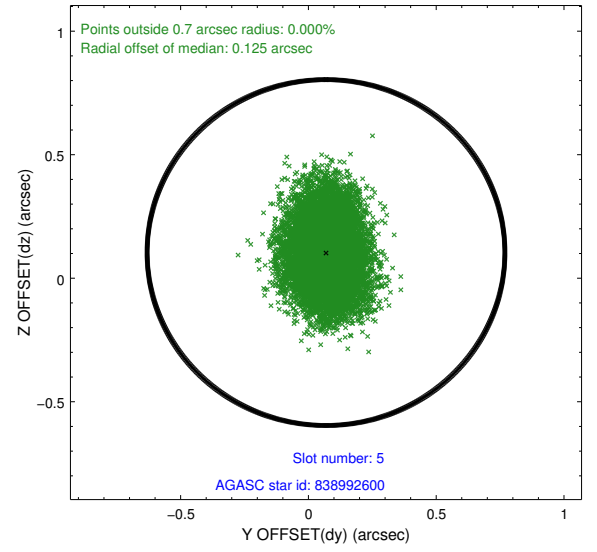
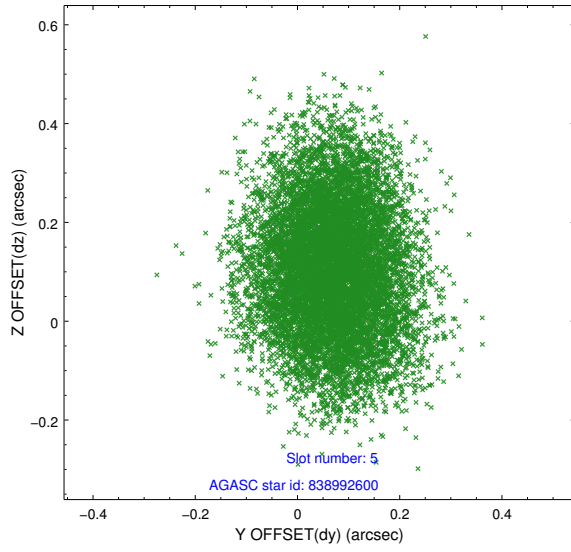
2.4.1 Slot 3



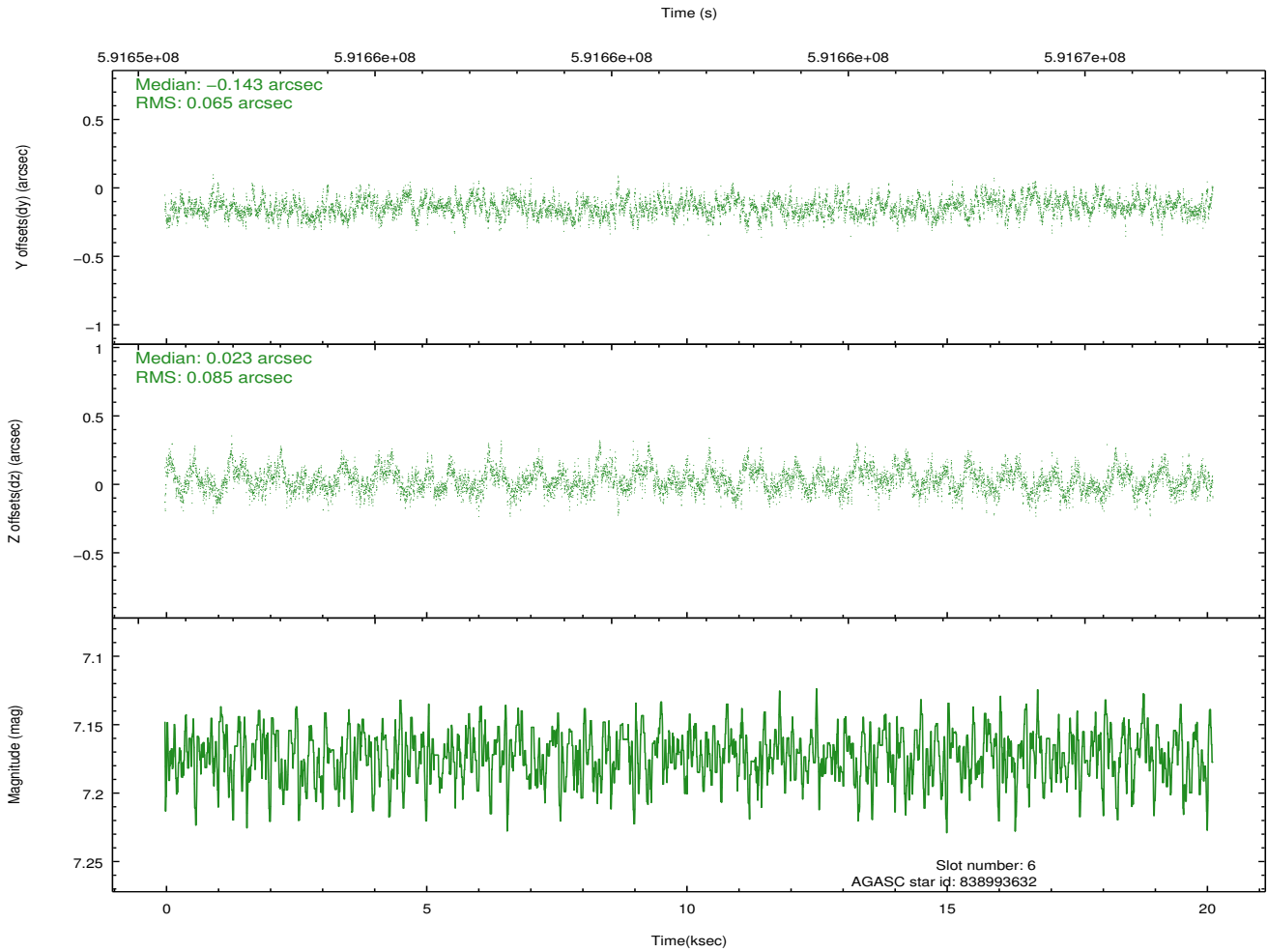
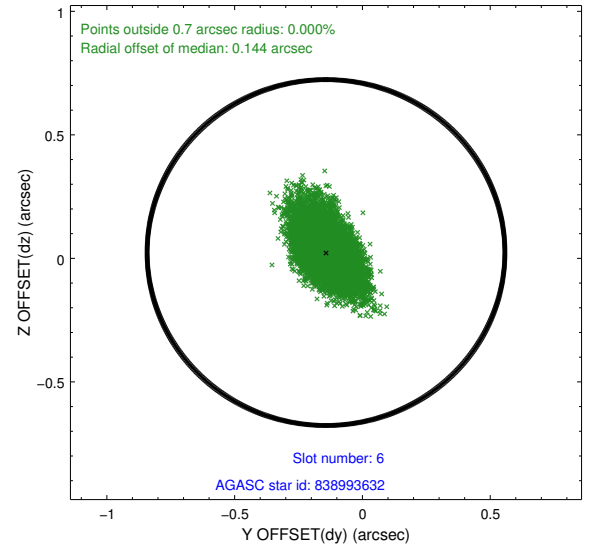
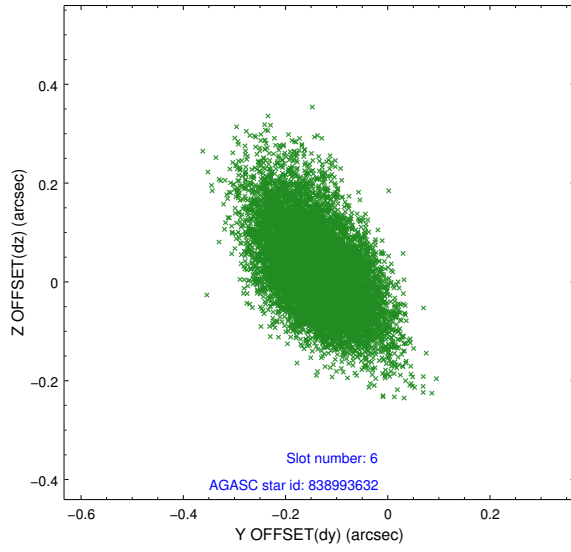
2.4.2 Slot 4



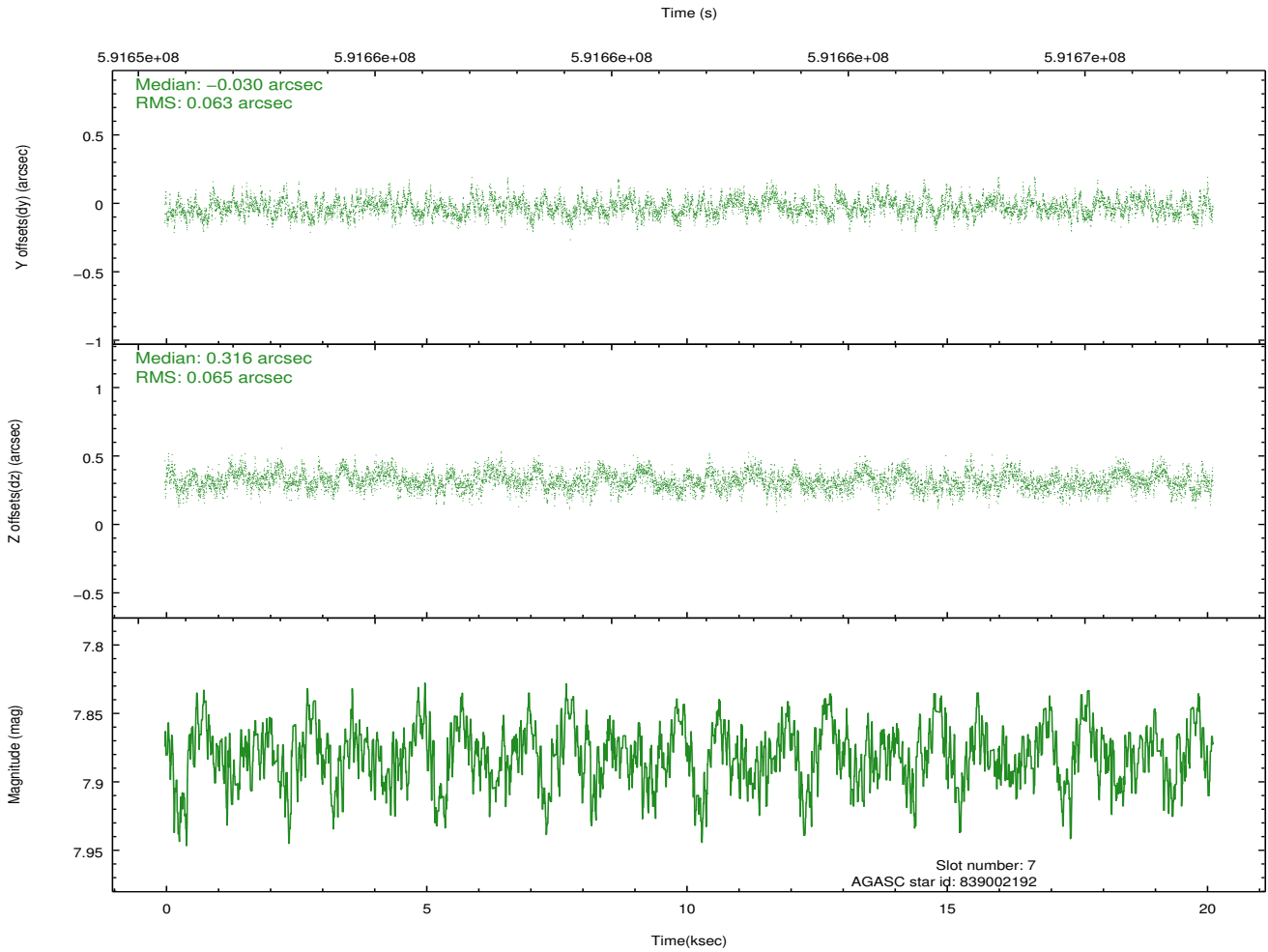
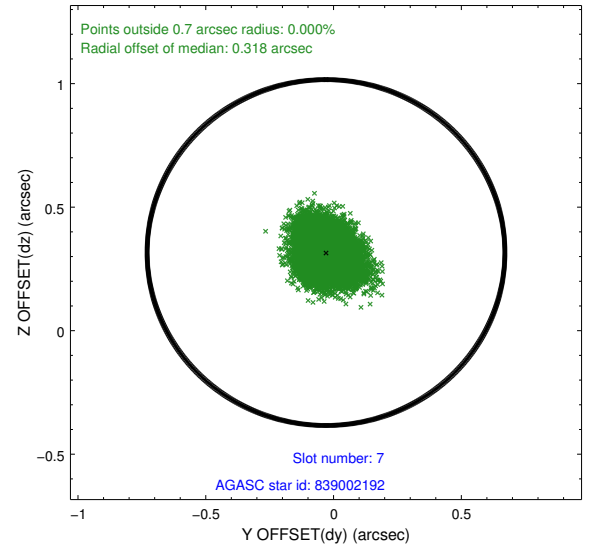
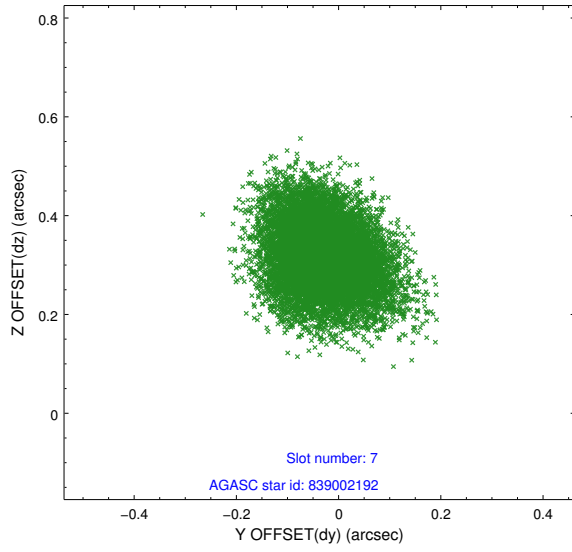
2.4.3 Slot 5



2.4.4 Slot 6

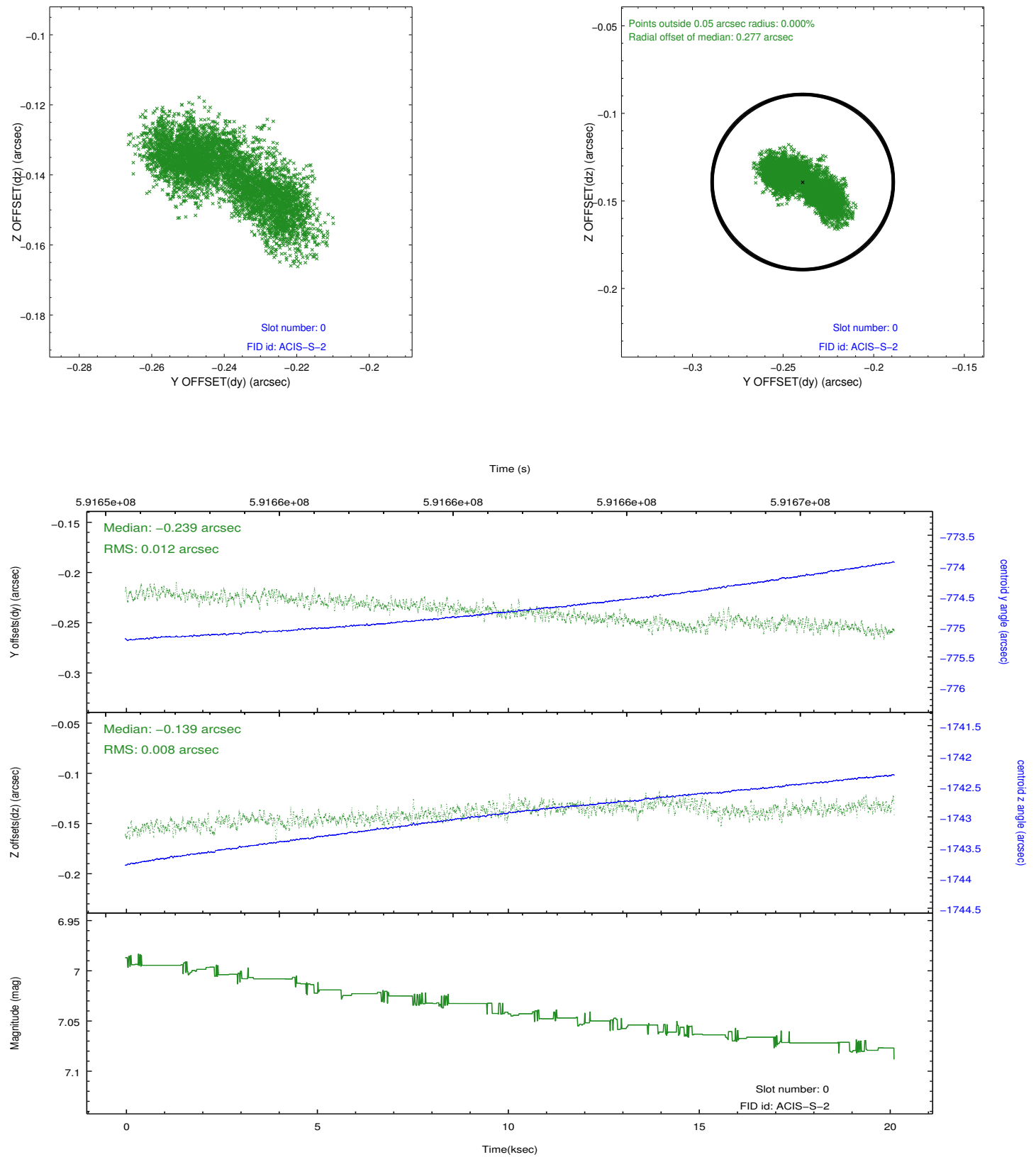


2.4.5 Slot 7

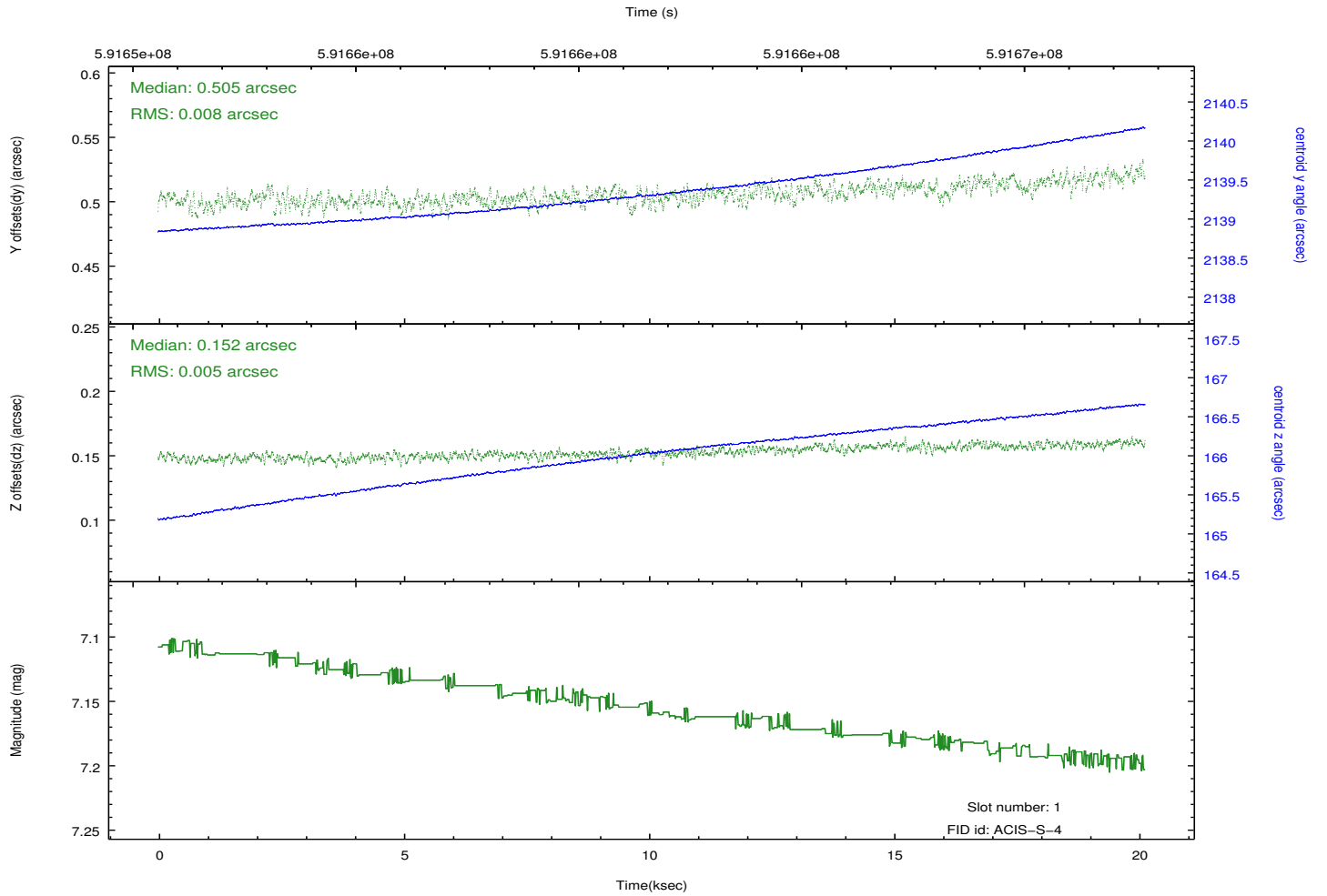
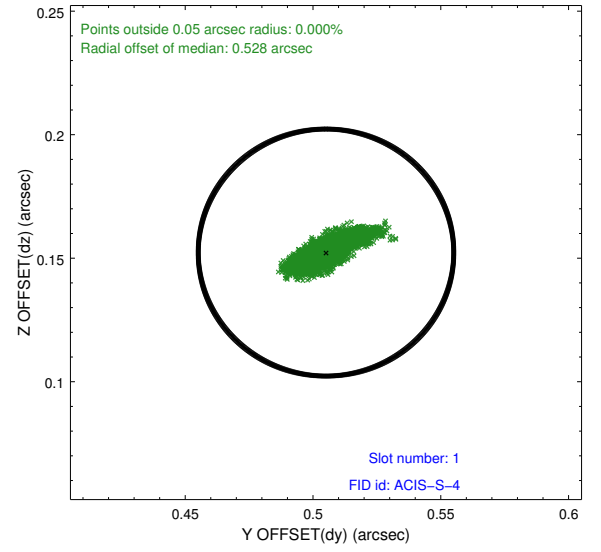
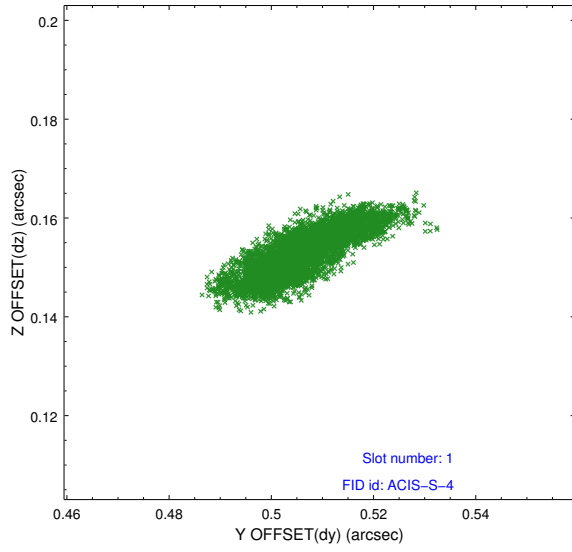


2.5 FID Slots

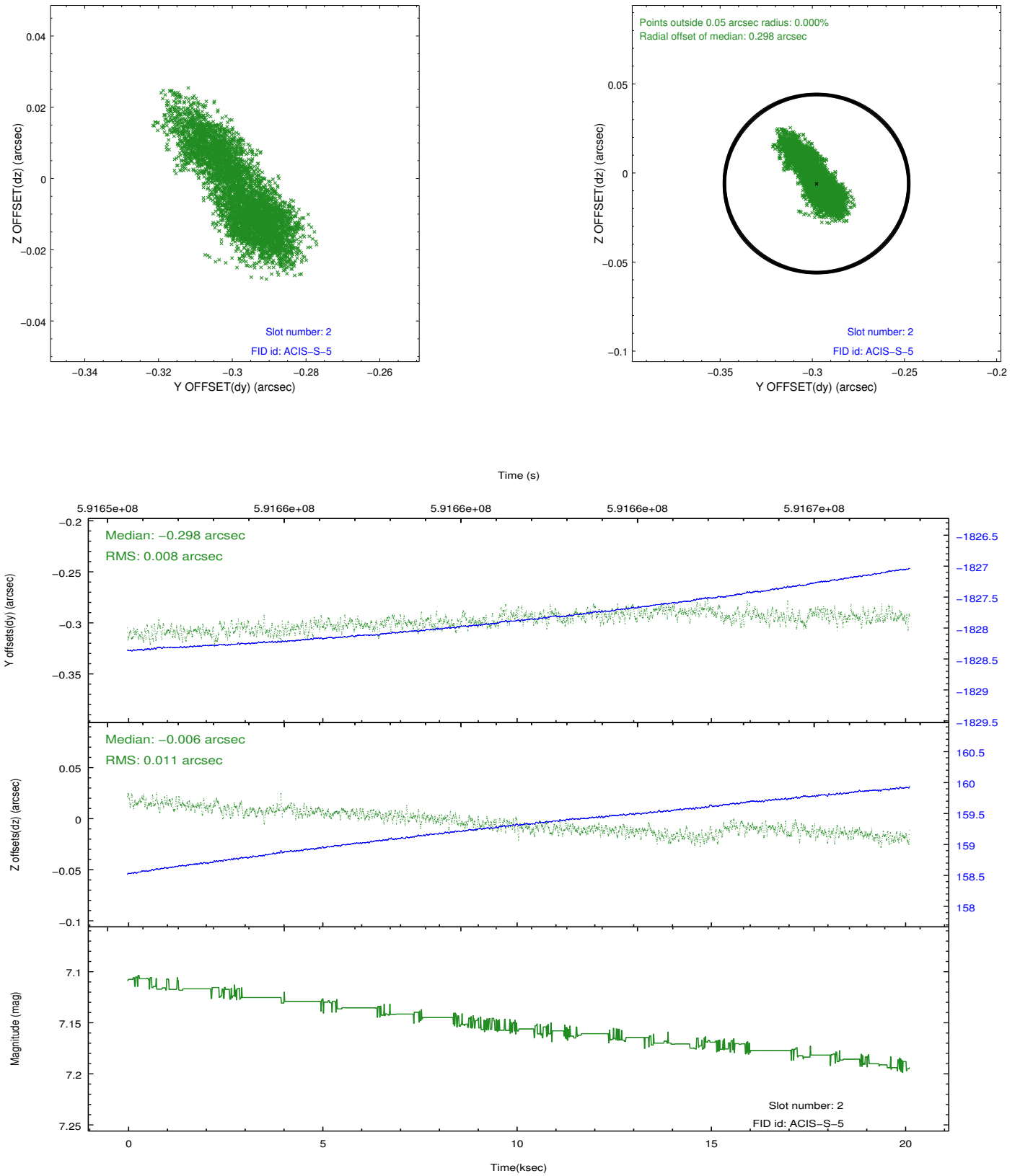
2.5.1 Slot 0



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)	2016.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.052446508765

A.2 Comments