

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20113 - L2 Version 1
Chandra X-Ray Center

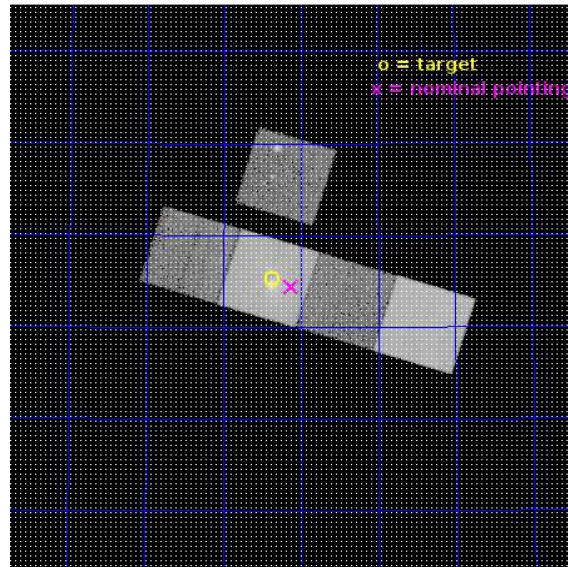
L2 Processing Date : Jul 17 2017

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1 Front

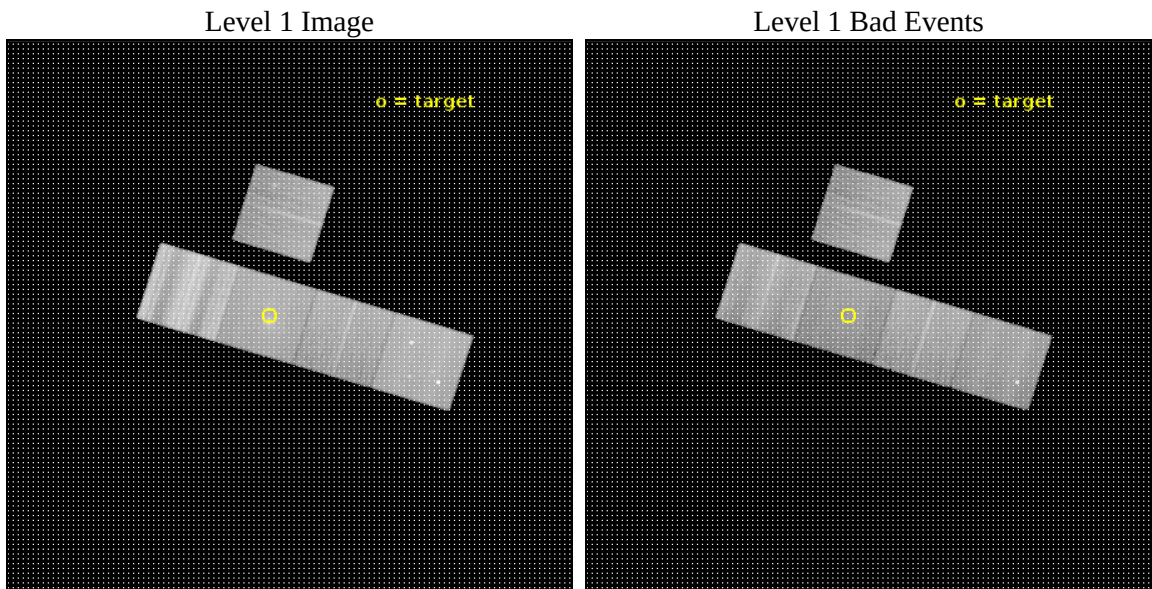
seq_num	801656	Sequence number
obs_id	20113	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.78050221998	Nominal RA [deg]
dec_nom	57.406922704159	Nominal Dec [deg]
roll_nom	197.21062309352	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25353.984647393	Sum of GTIs [s]
livetime	25022.716172643	Livetime [s]
ontime3	25353.861527443	Sum of GTIs [s]
ontime5	25353.94360745	Sum of GTIs [s]
ontime6	25350.761597157	Sum of GTIs [s]
ontime7	25353.984647393	Sum of GTIs [s]
ontime8	25344.397526622	Sum of GTIs [s]
l2events	349414	Number of level 2 events



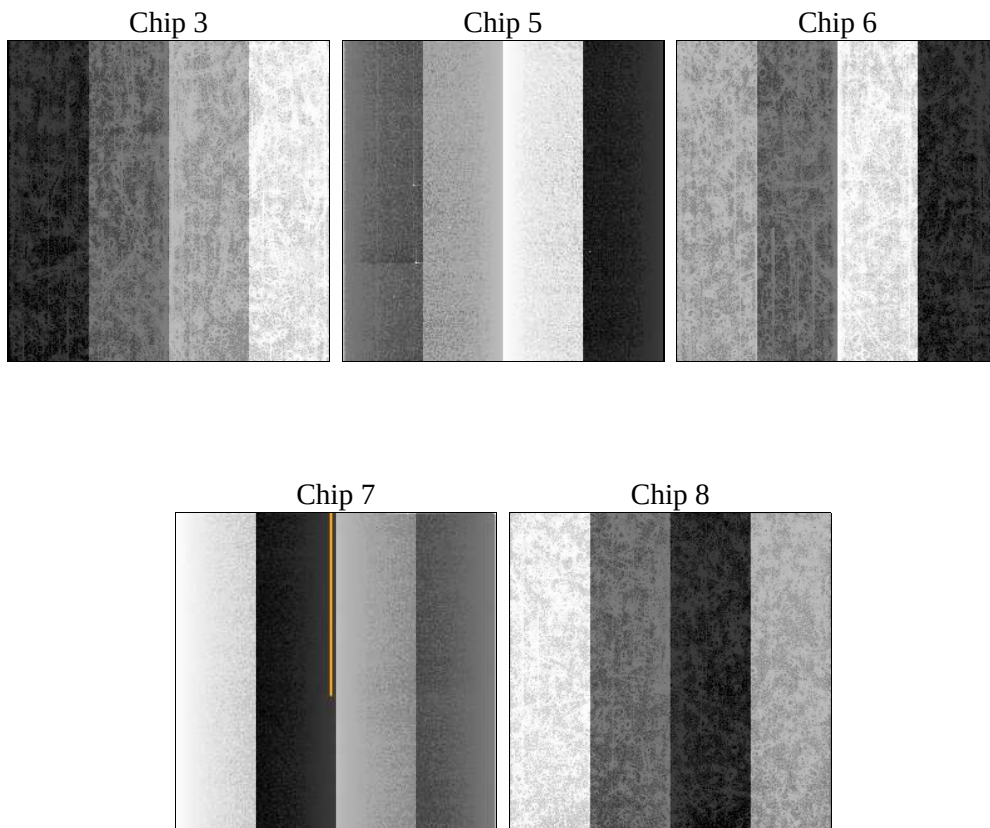
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25300.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25353.984647393	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	25353.861527443	Sum of GTIs [s]
date	2017-07-17T13:02:29	Date and time of file creation	ontime5	25353.94360745	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25350.761597157	Sum of GTIs [s]
			ontime7	25353.984647393	Sum of GTIs [s]
			ontime8	25344.397526622	Sum of GTIs [s]
			l1events	1572052	Number of level 1 events

2.1.4 Events

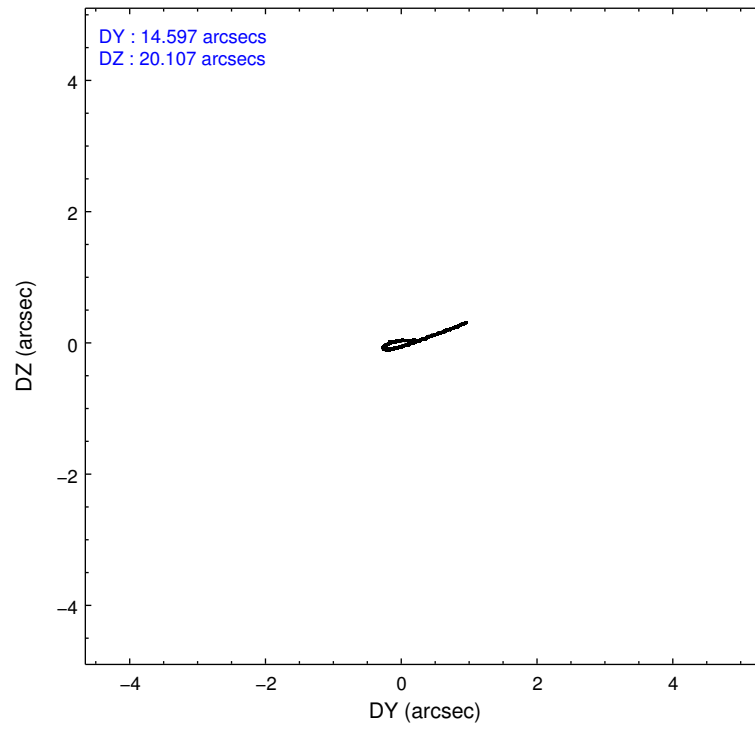
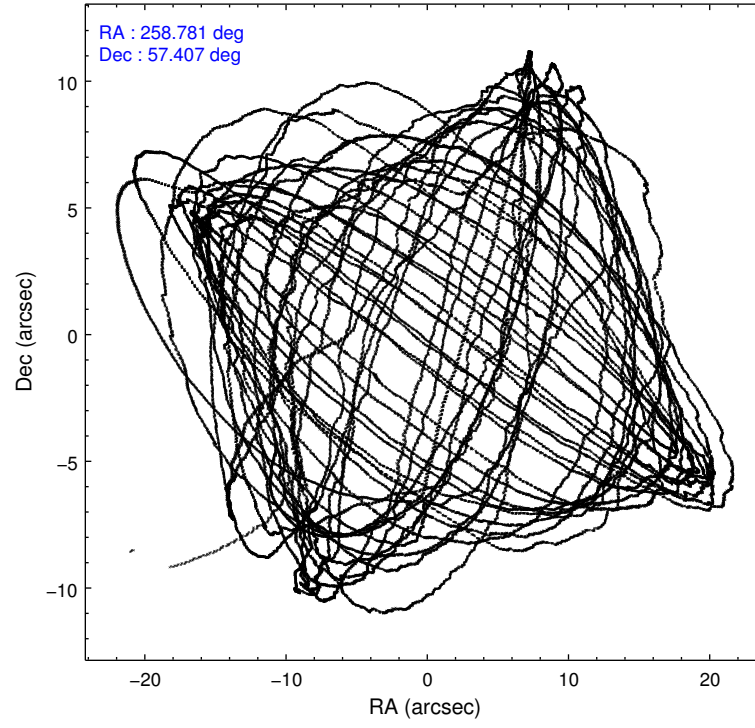
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	219460	327478	242067	281261	501786	grade 0 events	9074	16357	11380	18360	78892
rejected events	196915	168745	213808	141086	233832		4%	4%	4%	6%	15%
rejected %	89%	51%	88%	50%	46%	grade 1 events	127	779	128	470	733
							0%	0%	0%	0%	0%
						grade 2 events	5016	51488	7418	33443	41832
							2%	15%	3%	11%	8%
						grade 3 events	2139	6193	2231	12459	45555
							0%	1%	0%	4%	9%
						grade 4 events	2156	5938	2234	12581	41969
							0%	1%	0%	4%	8%
						grade 5 events	8861	22495	9014	25234	16231
							4%	6%	3%	8%	3%
						grade 6 events	4163	78775	5001	63341	59764
							1%	24%	2%	22%	11%
						grade 7 events	187924	145453	204661	115373	216810
							85%	44%	84%	41%	43%

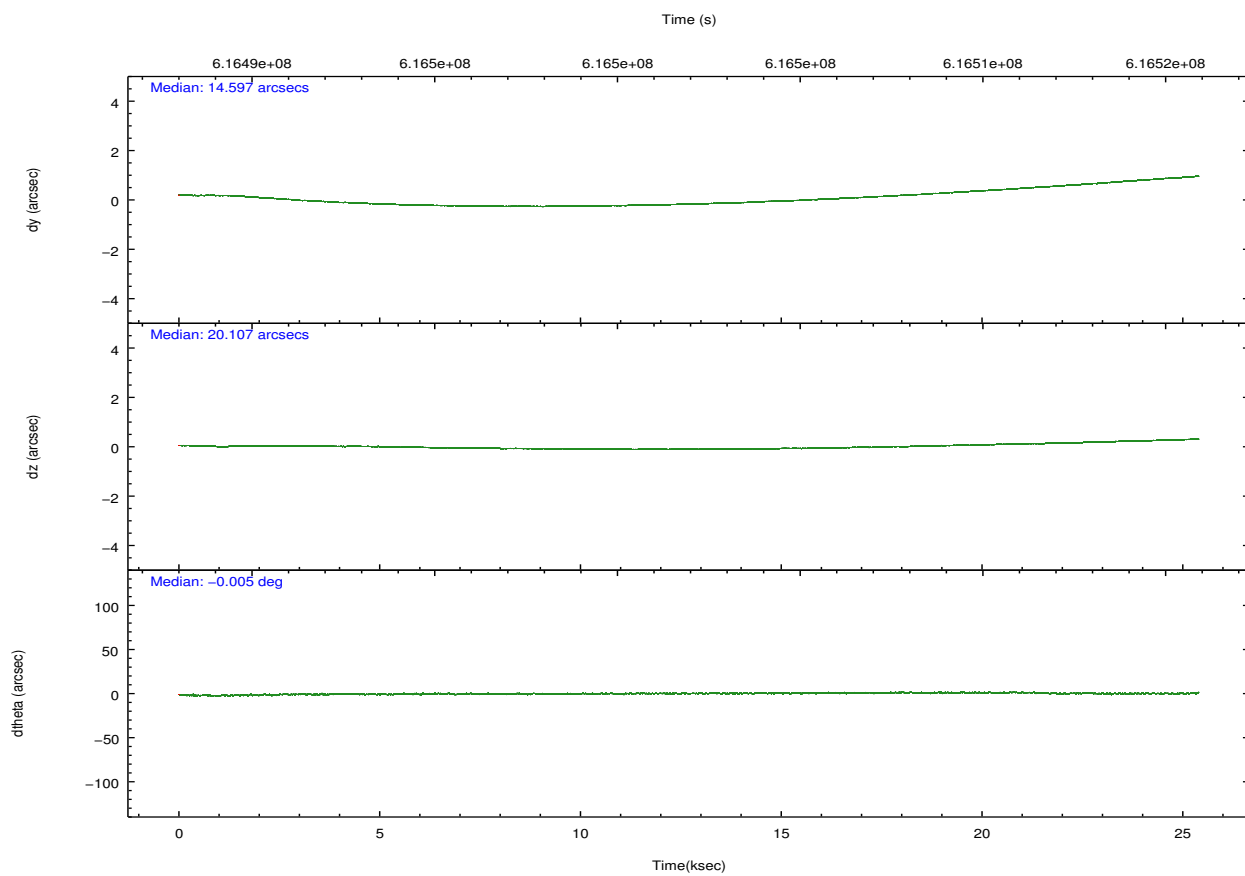
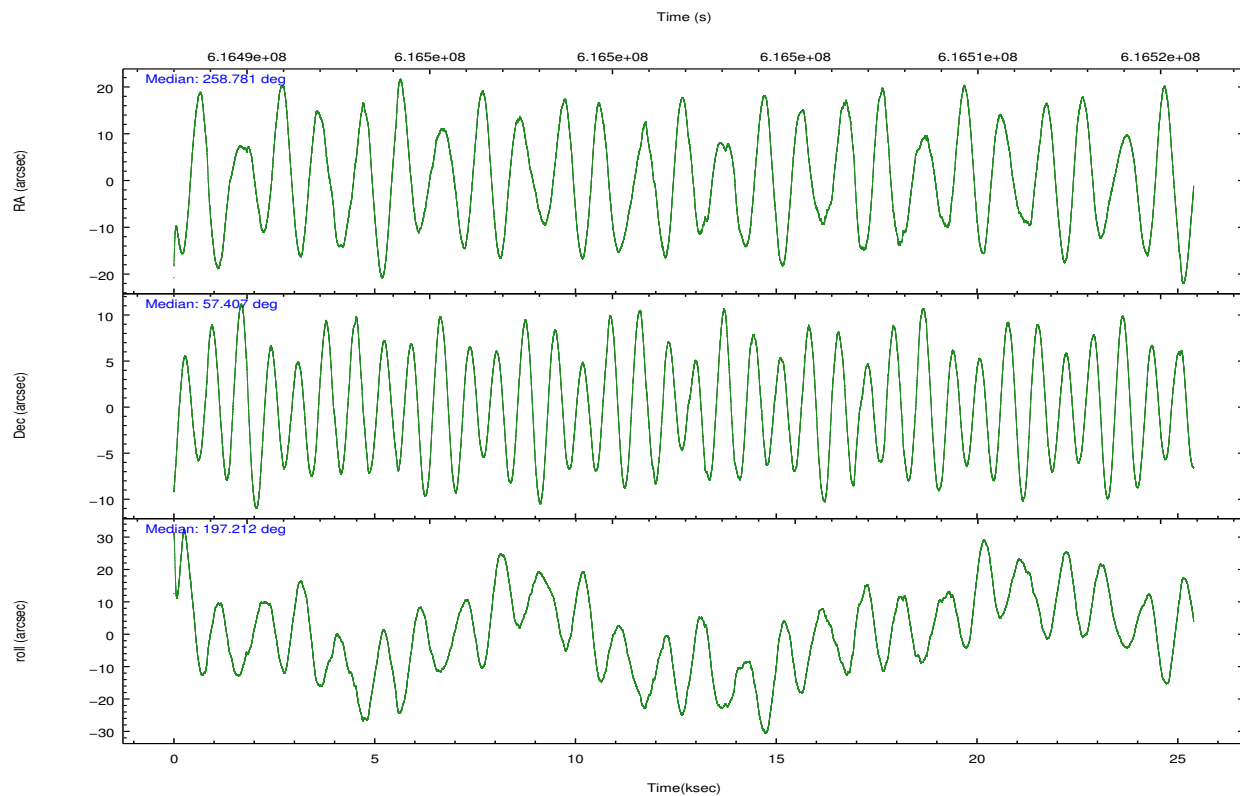
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	258.814701	258.7805022199821
[deg] Pointing Dec	57.427313	57.40692270415927
[deg] Pointing Roll	197.025176	197.2106230935232
[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)	616489356.184000	616487812.3806601
Observation start date	2017-07-15T07:01:27	2017-07-15T06:36:52
[s] Observation end time (MET)	616514656.184000	616515743.63229
Observation end date	2017-07-15T14:03:07	2017-07-15T14:22:23
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	Y
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	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



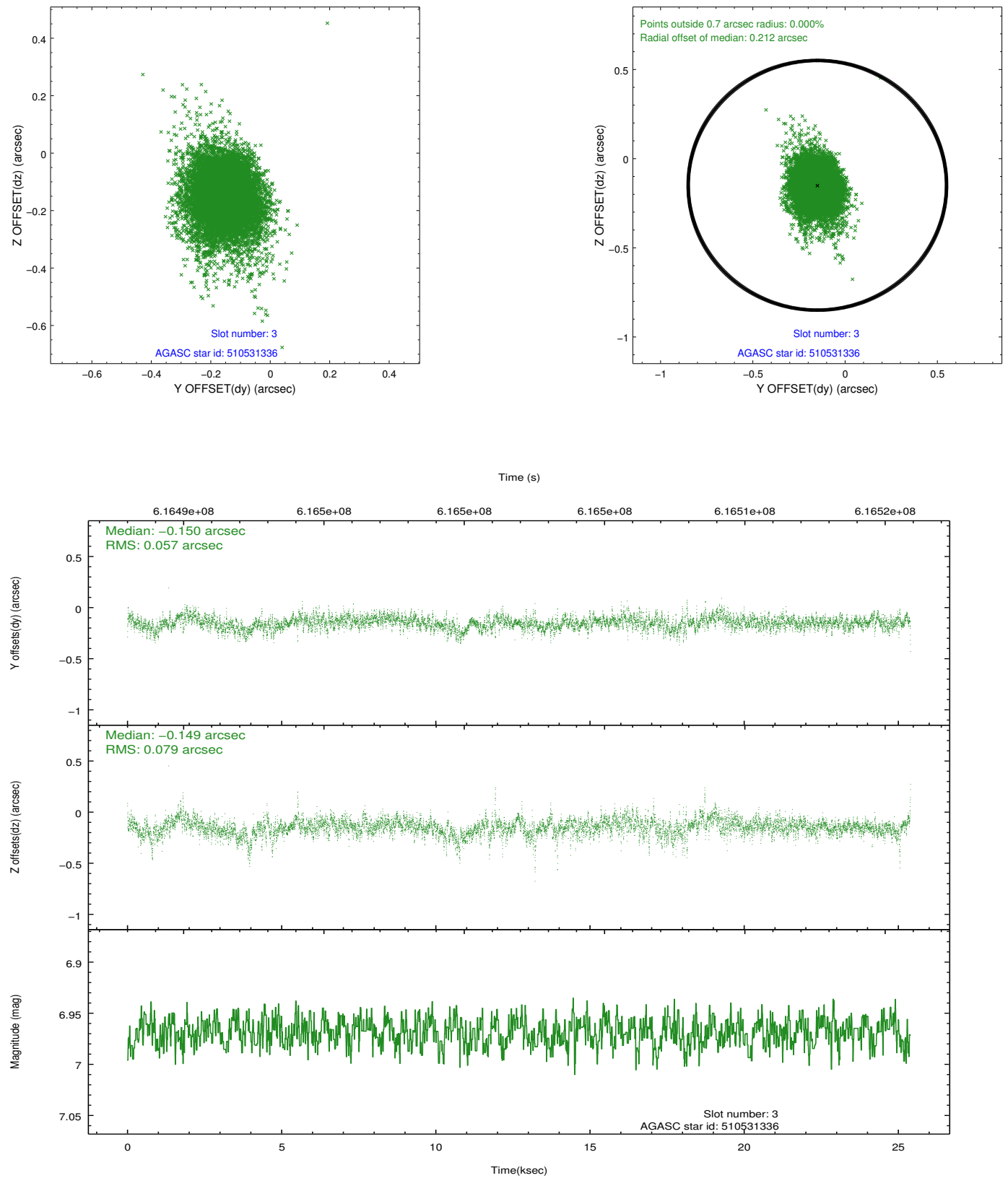


Slot Statistics

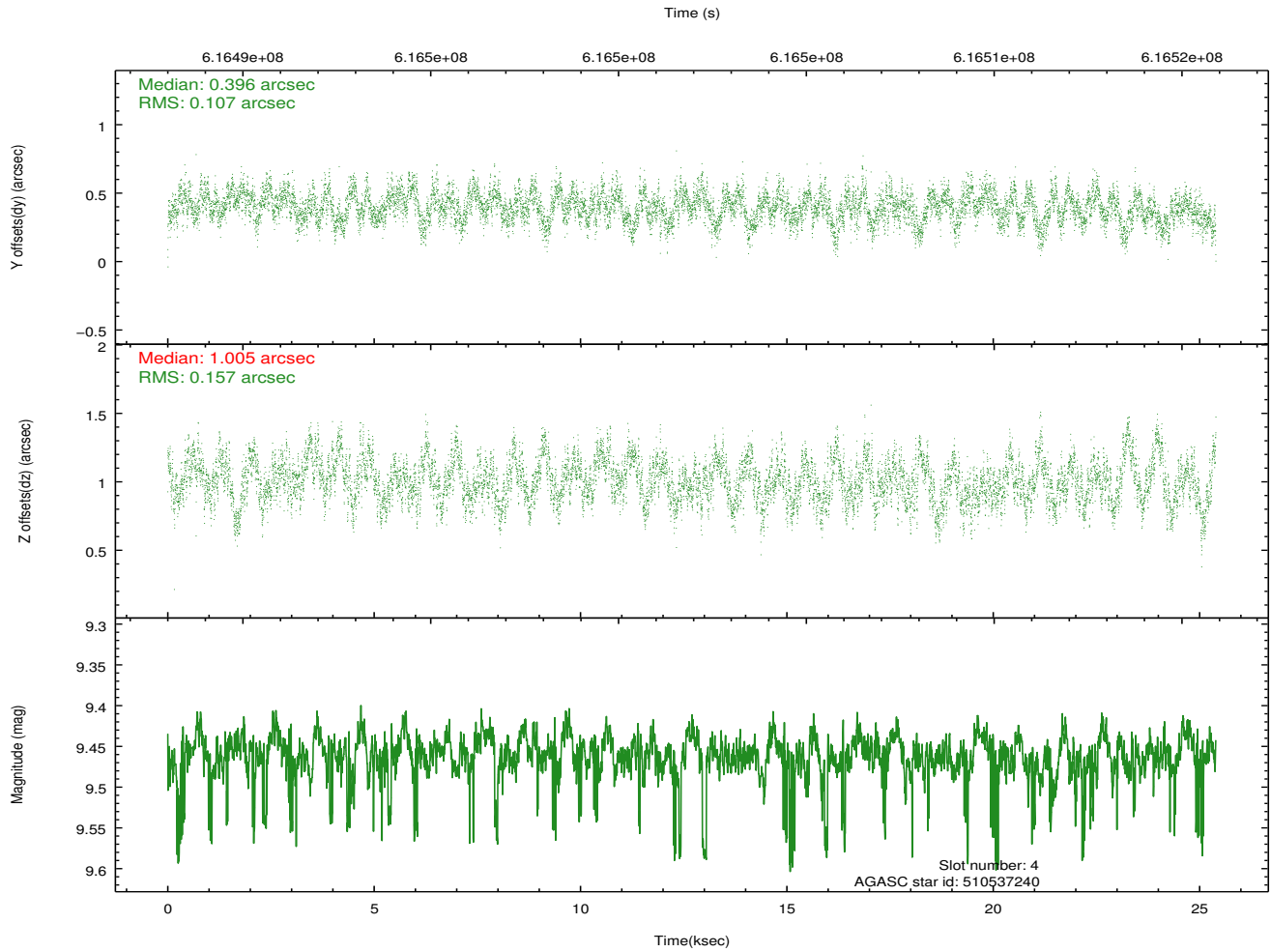
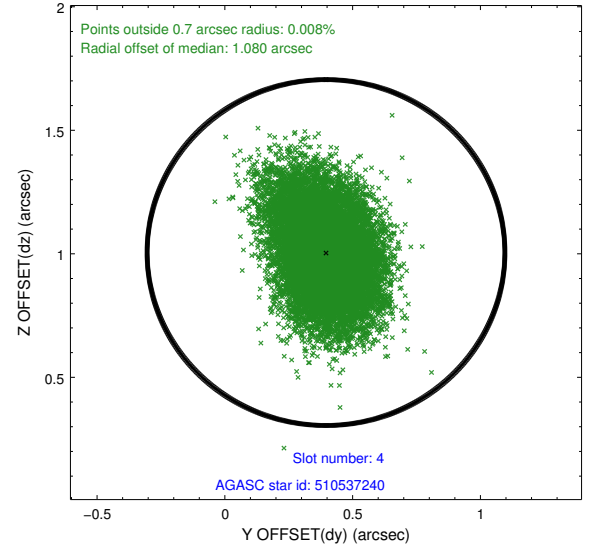
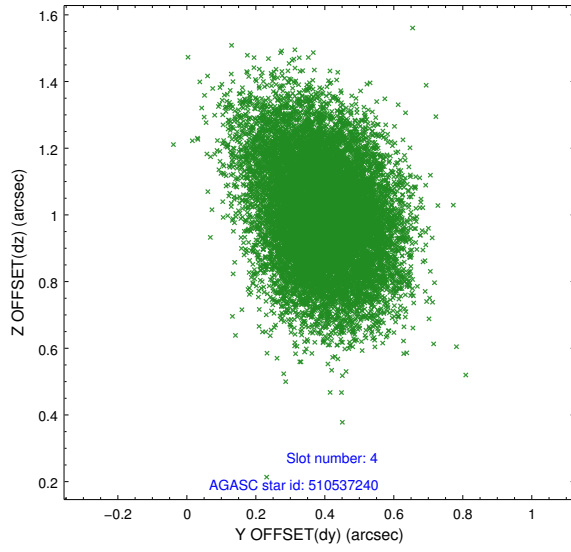
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	6195	-0.216	-0.060	0.011	0.019	0.000000	0.000000	-767.85	-1741.71
1	FID		ACIS-S-4	7.08	6195	0.492	0.121	0.008	0.014	0.000000	0.000000	2146.06	166.88
2	FID		ACIS-S-5	7.07	6193	-0.308	-0.051	0.011	0.025	0.000000	0.000000	-1820.66	160.44
3	GUIDE	used	510531336	6.97	12387	-0.150	-0.149	0.095	0.177	258.217938	57.862631	632.67	-1837.52
4	GUIDE	used	510537240	9.46	12375	0.396	1.005	0.203	0.333	259.436318	57.923115	-1659.69	-1362.52
5	GUIDE	used	510537304	7.30	12389	0.106	0.029	0.143	0.243	257.977845	57.967610	956.13	-2337.82
6	GUIDE	used	510537952	9.37	12376	-0.088	-0.763	0.169	0.283	259.803735	57.190117	-1598.33	1367.58
7	GUIDE	used	510536032	9.25	12379	-0.260	-0.110	0.190	0.320	258.787877	57.540840	-70.07	-405.44

2.4 Star Slots

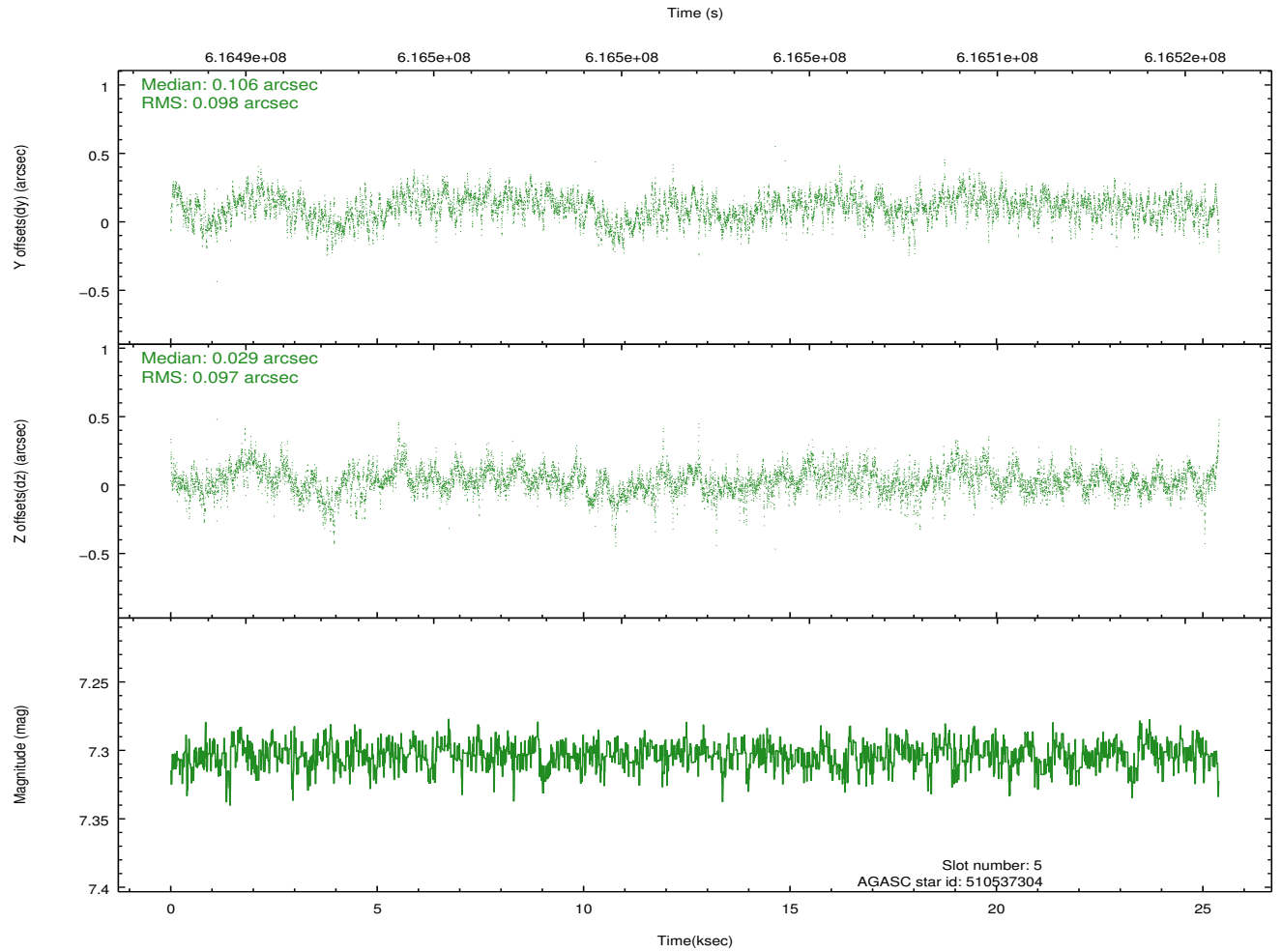
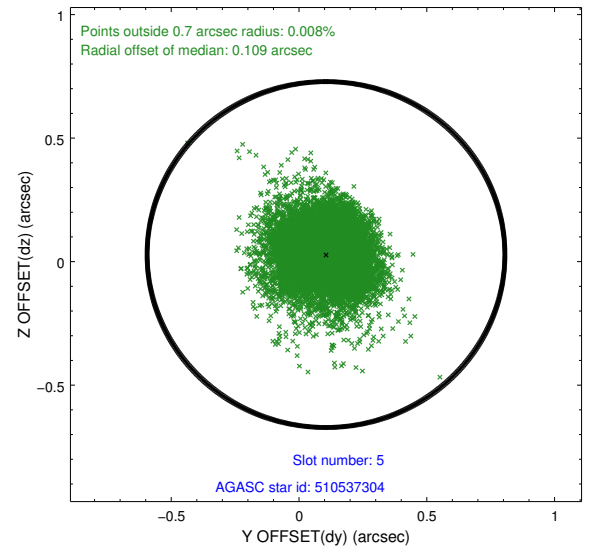
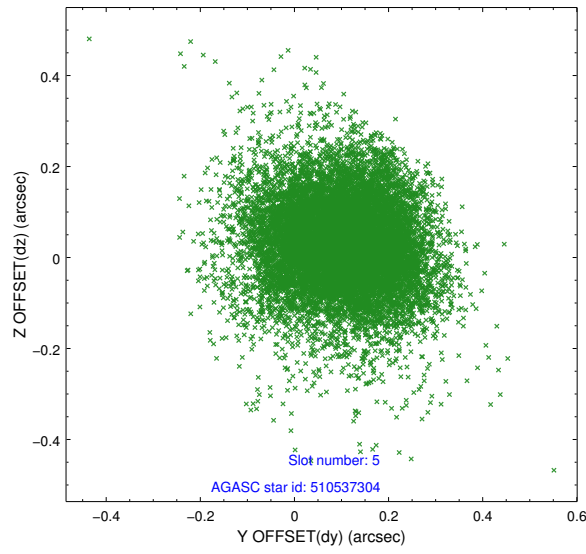
2.4.1 Slot 3



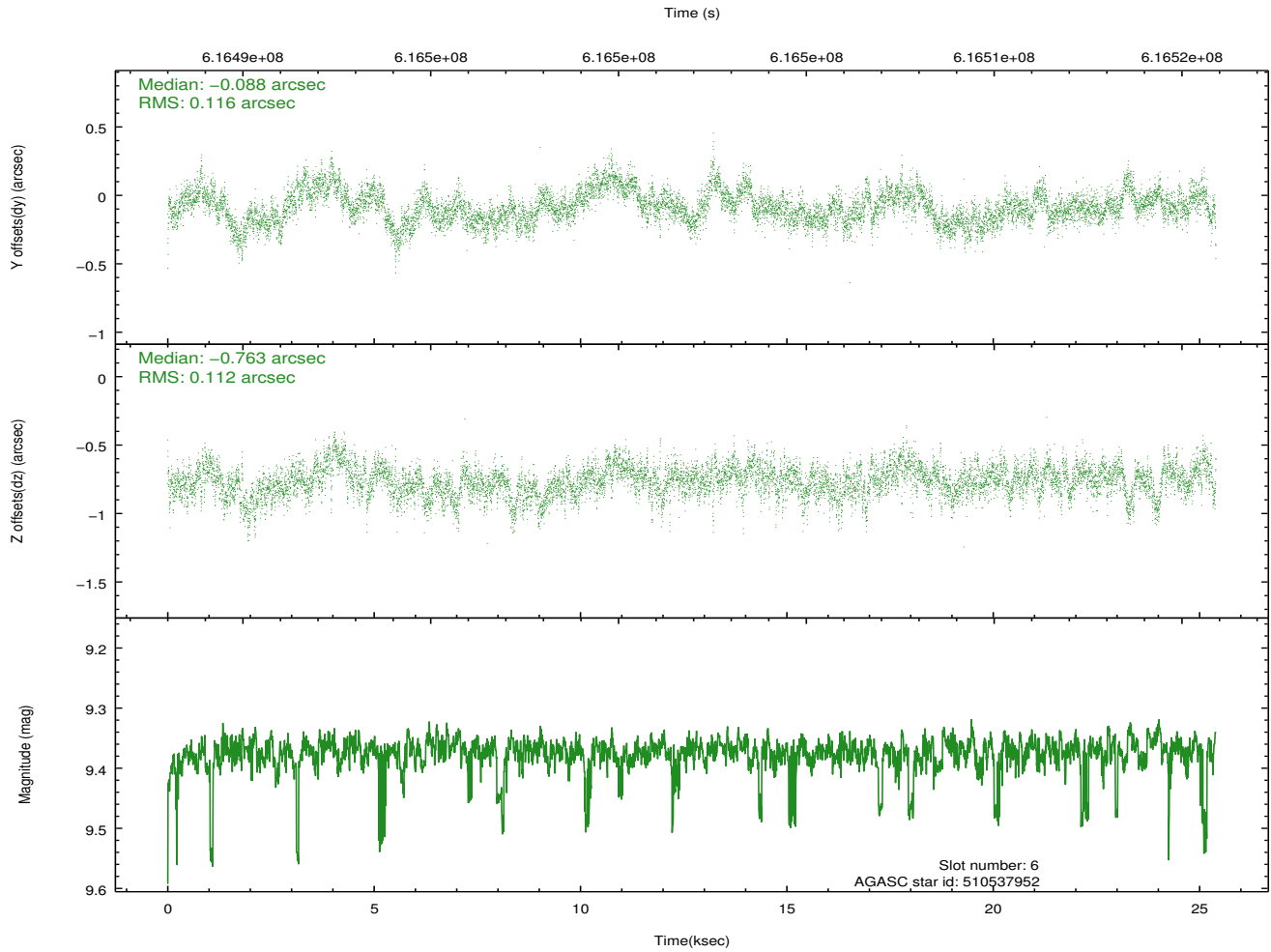
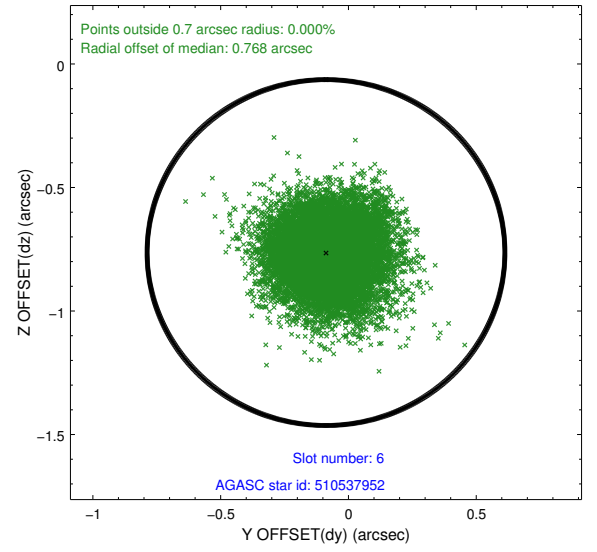
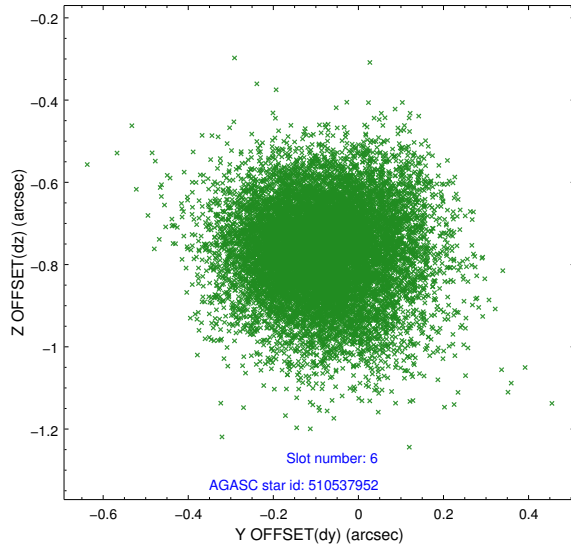
2.4.2 Slot 4



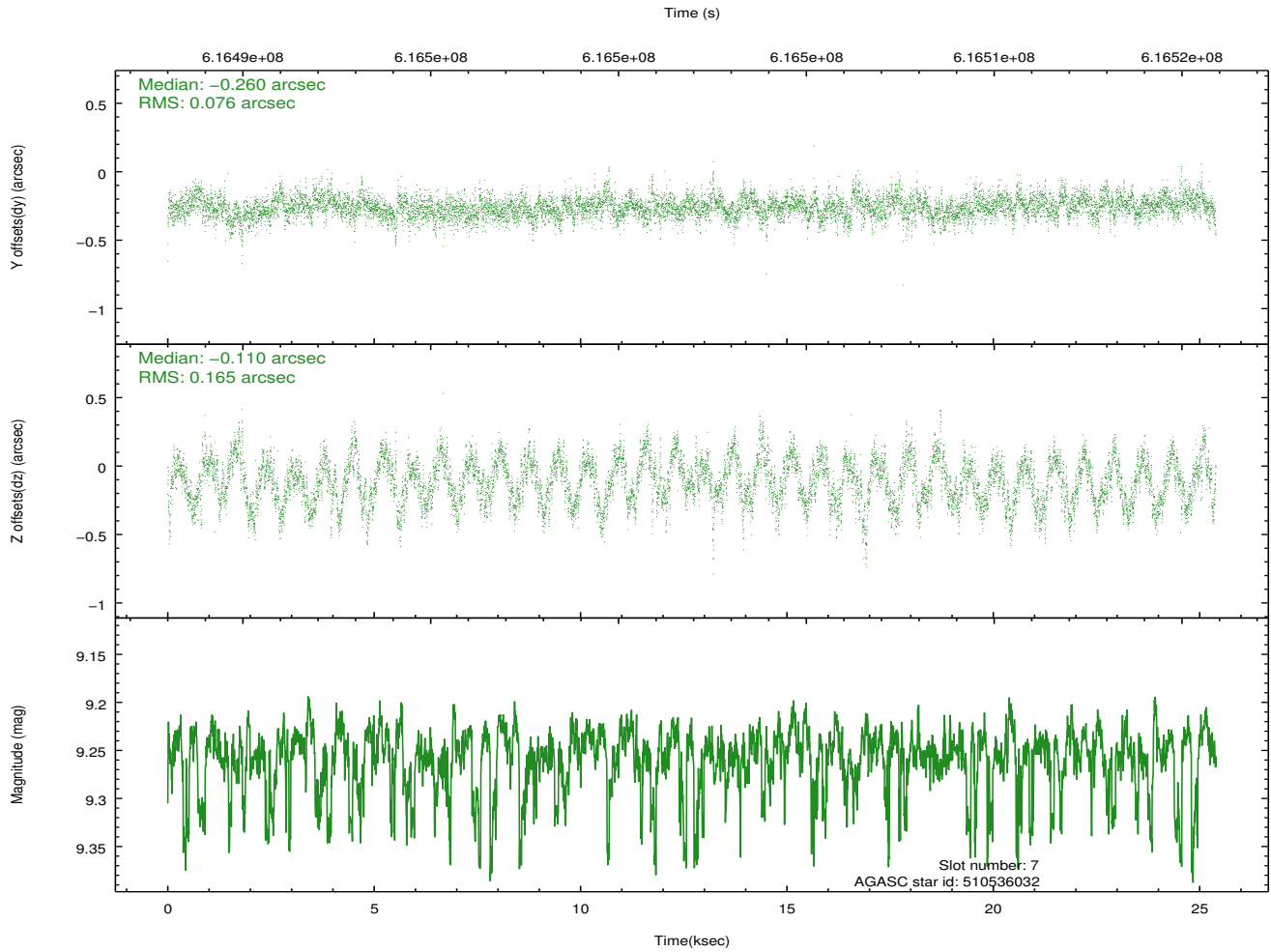
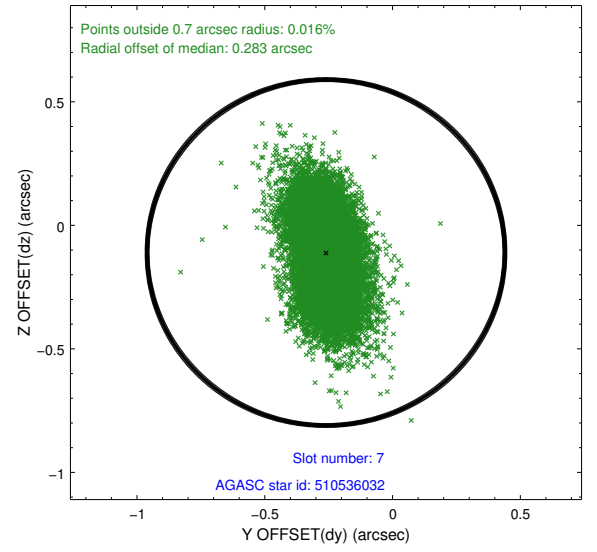
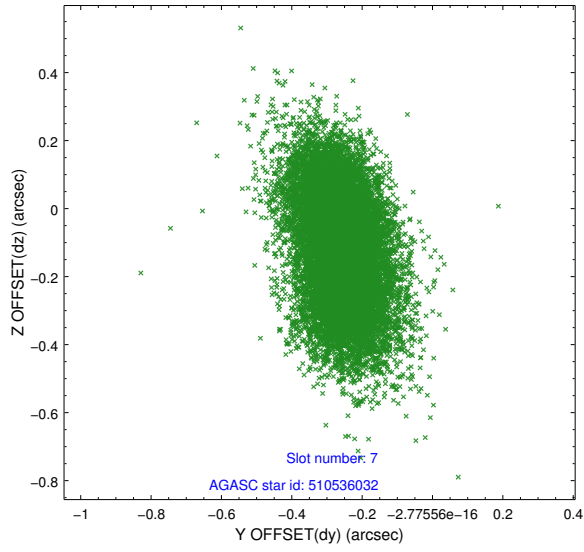
2.4.3 Slot 5



2.4.4 Slot 6

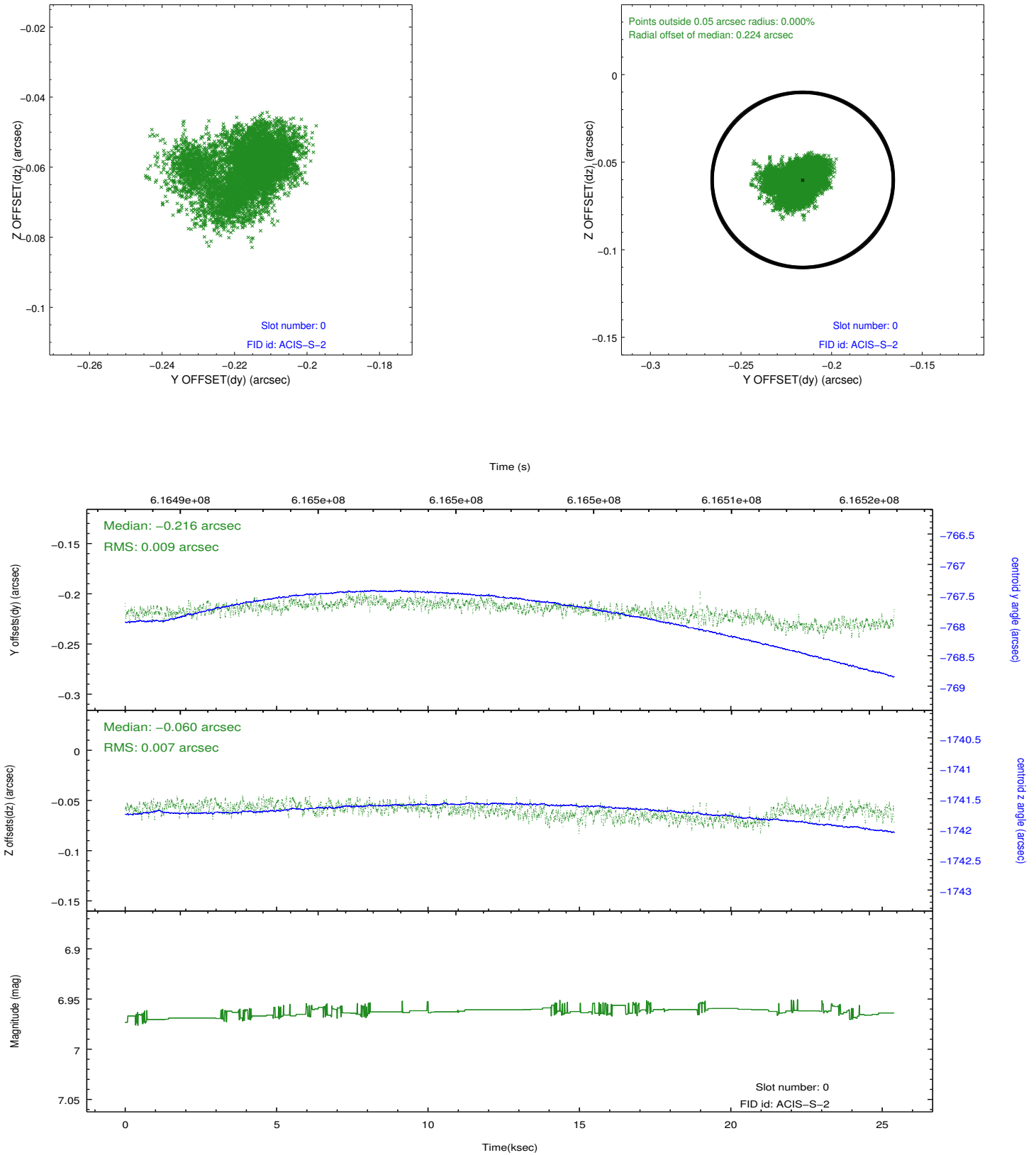


2.4.5 Slot 7

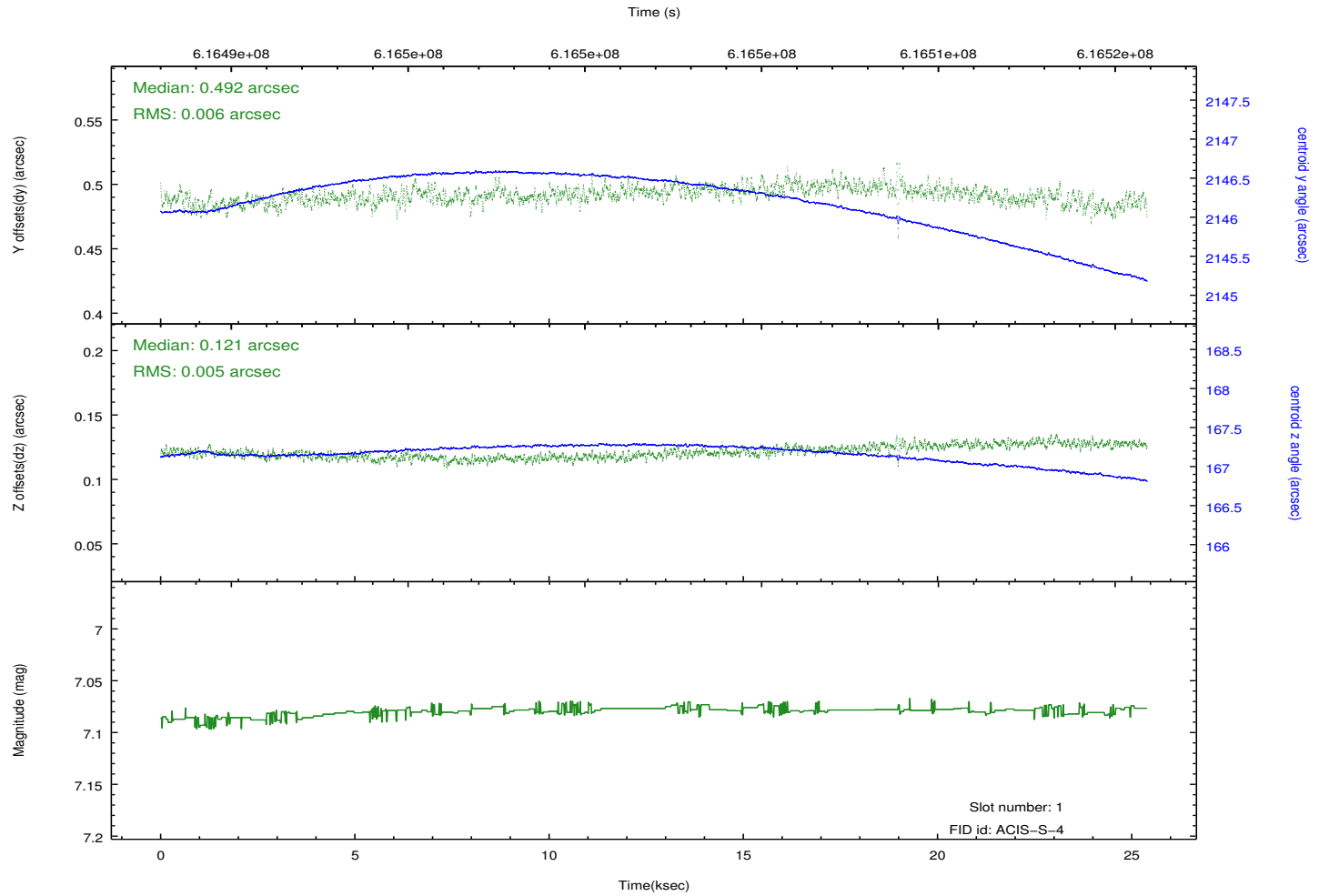
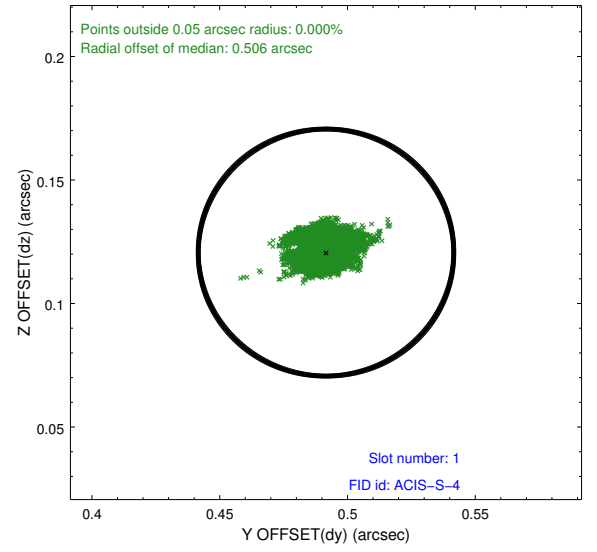
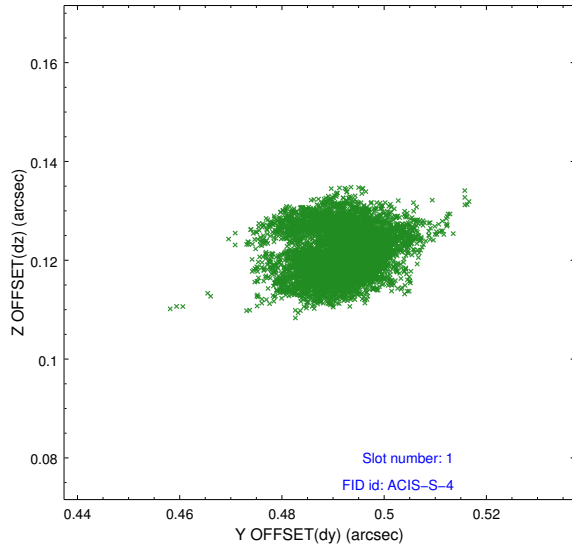


2.5 FID Slots

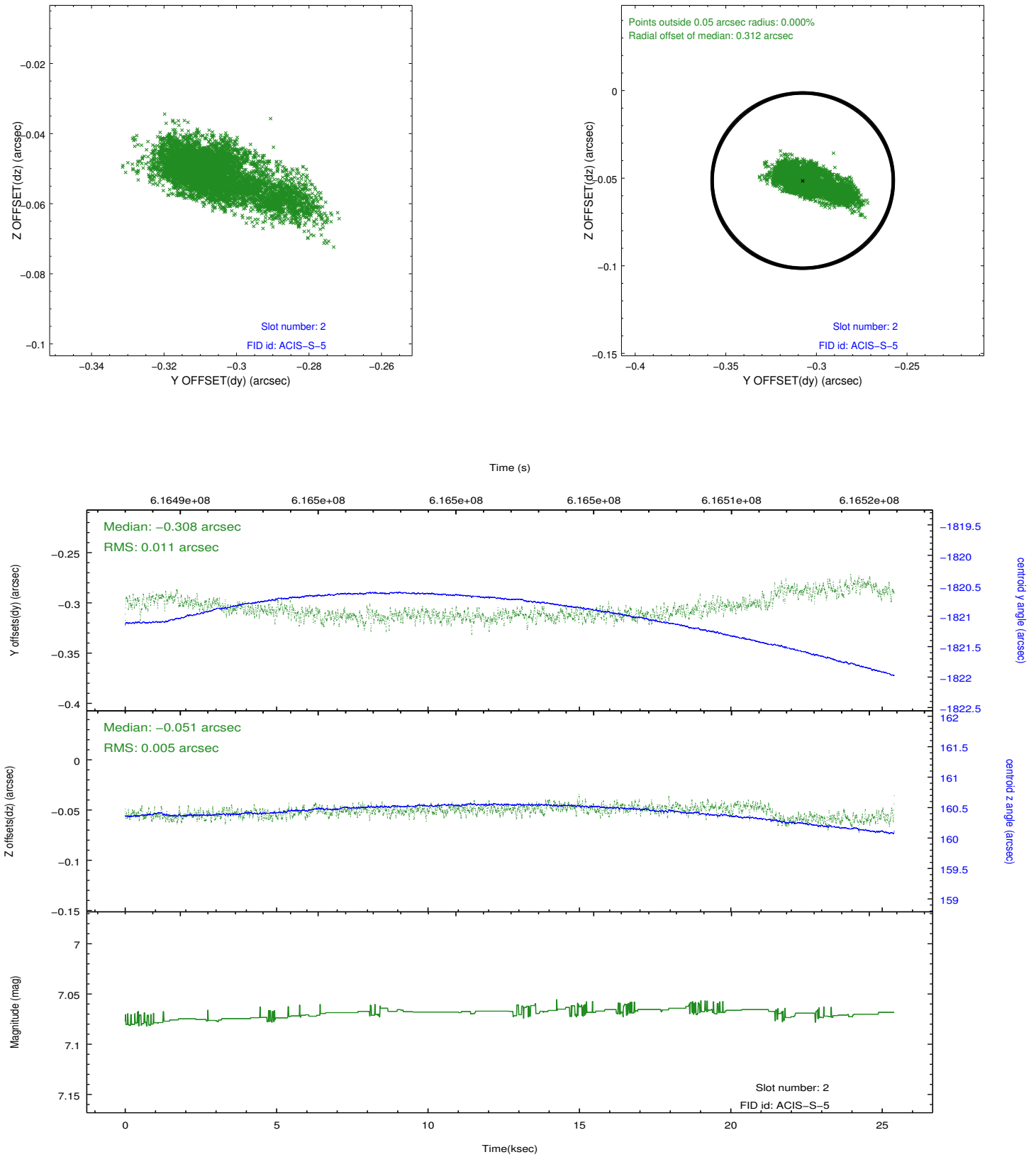
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.353984647393

A.2 Comments

Joint Proposal: XMM