

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20104 - L2 Version 1
Chandra X-Ray Center

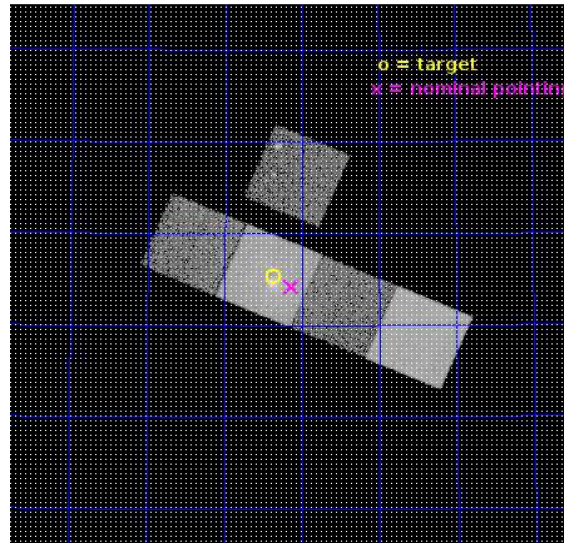
L2 Processing Date : Jun 21 2017

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1 Front

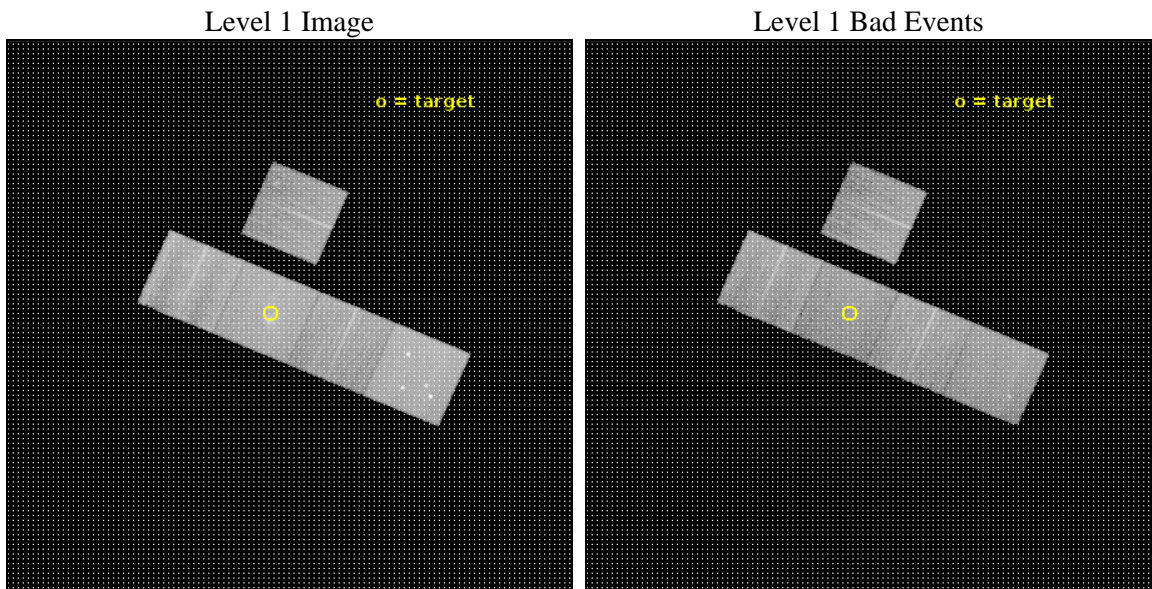
seq_num	801656	Sequence number
obs_id	20104	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.78405980919	Nominal RA [deg]
dec_nom	57.403524102715	Nominal Dec [deg]
roll_nom	203.2076306799	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15053.600115895	Sum of GTIs [s]
livetime	14856.913748082	Livetime [s]
ontime3	15053.600115895	Sum of GTIs [s]
ontime5	15053.600115895	Sum of GTIs [s]
ontime6	15053.600115895	Sum of GTIs [s]
ontime7	15053.600115895	Sum of GTIs [s]
ontime8	15053.600115895	Sum of GTIs [s]
l2events	195549	Number of level 2 events



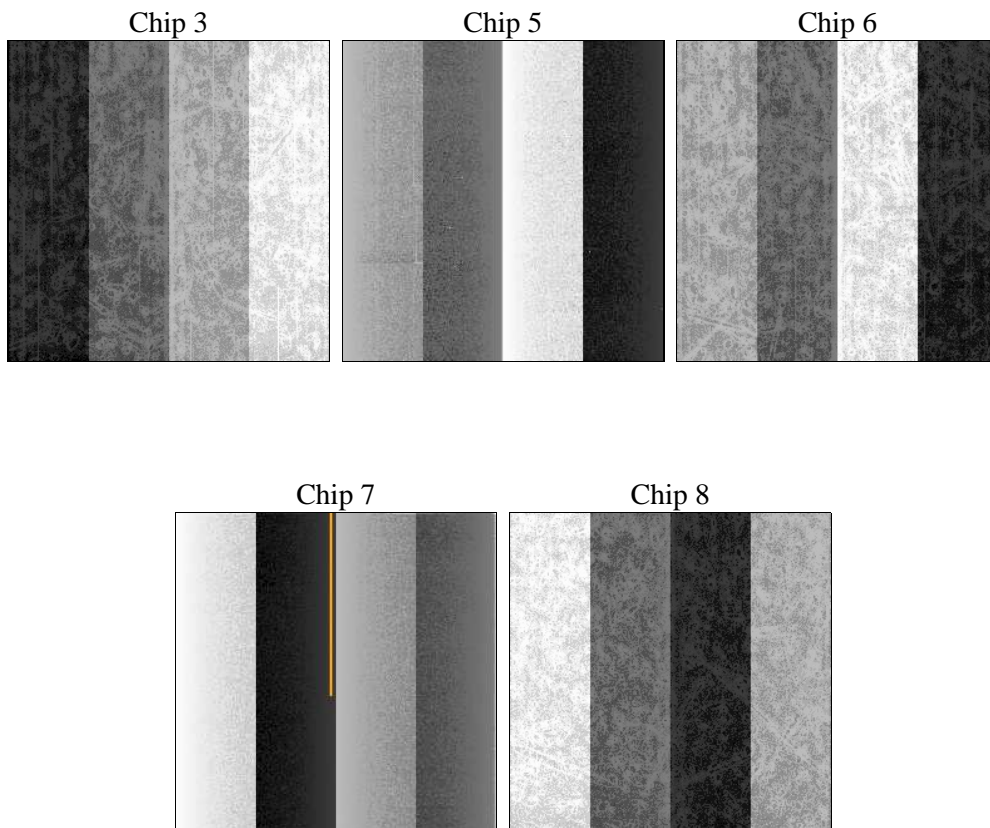
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15053.600115895	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	15053.600115895	Sum of GTIs [s]
date	2017-06-21T21:39:39	Date and time of file creation	ontime5	15053.600115895	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15053.600115895	Sum of GTIs [s]
			ontime7	15053.600115895	Sum of GTIs [s]
			ontime8	15053.600115895	Sum of GTIs [s]
			l1events	713491	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	105916	182848	116932	158882	148913
rejected events	93700	90779	102644	79738	107698
rejected %	88%	49%	87%	50%	72%

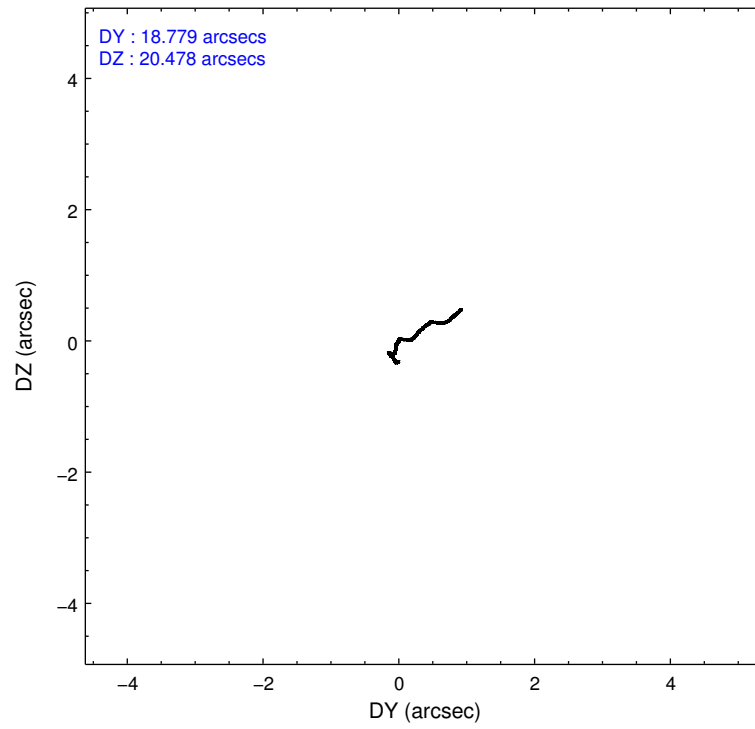
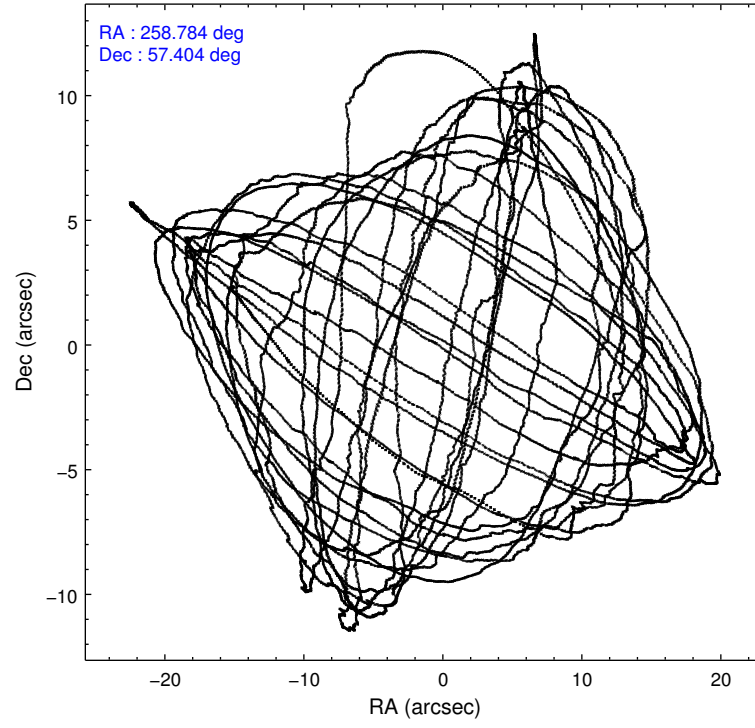
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4752	12088	5635	10322	12260
	4%	6%	4%	6%	8%
grade 1 events	65	869	55	187	130
	0%	0%	0%	0%	0%
grade 2 events	2604	28116	3134	17910	10003
	2%	15%	2%	11%	6%
grade 3 events	1217	2781	1327	6992	4230
	1%	1%	1%	4%	2%
grade 4 events	1244	2774	1284	6865	3984
	1%	1%	1%	4%	2%
grade 5 events	5219	12842	5398	14571	7976
	4%	7%	4%	9%	5%
grade 6 events	2404	46329	2910	37072	10741
	2%	25%	2%	23%	7%
grade 7 events	88411	77049	97189	64963	99589
	83%	42%	83%	40%	66%

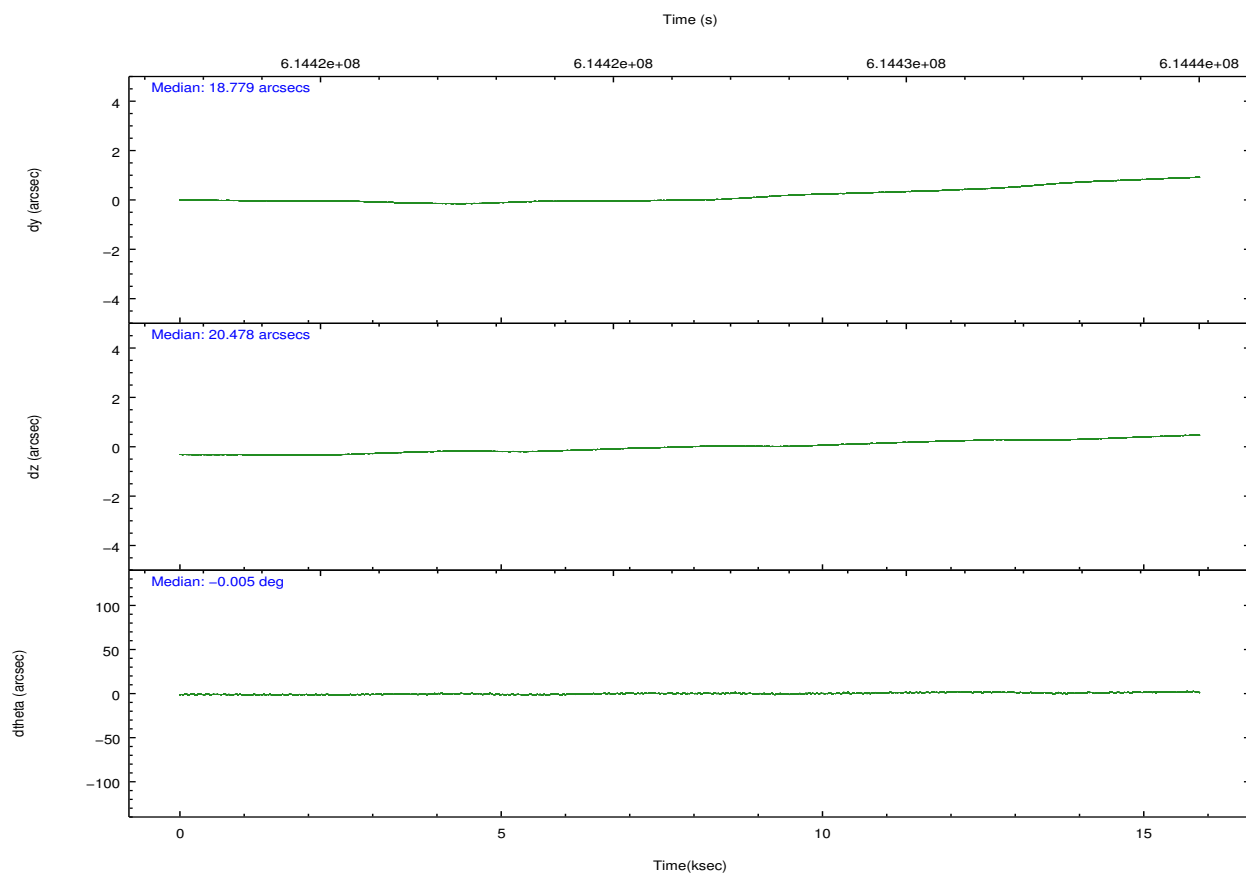
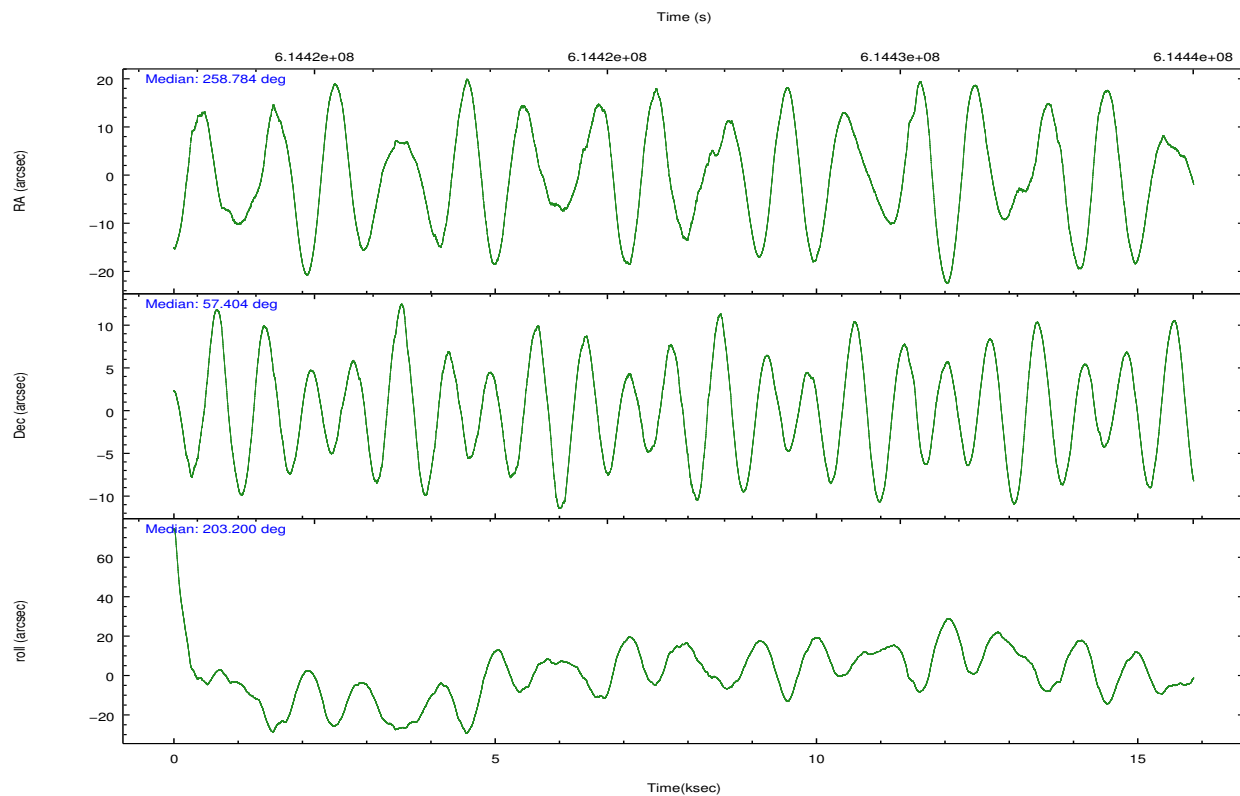
2.2 Compared Parameters

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	258.814022	258.7840598091885
[deg] Pointing Dec	57.425709	57.40352410271493
[deg] Pointing Roll	203.025748	203.2076306798976
[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)	614419233.184000	614417583.88501
Observation start date	2017-06-21T07:59:24	2017-06-21T07:33:03
[s] Observation end time (MET)	614434233.184000	614434752.6360101
Observation end date	2017-06-21T12:09:24	2017-06-21T12:19:12
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



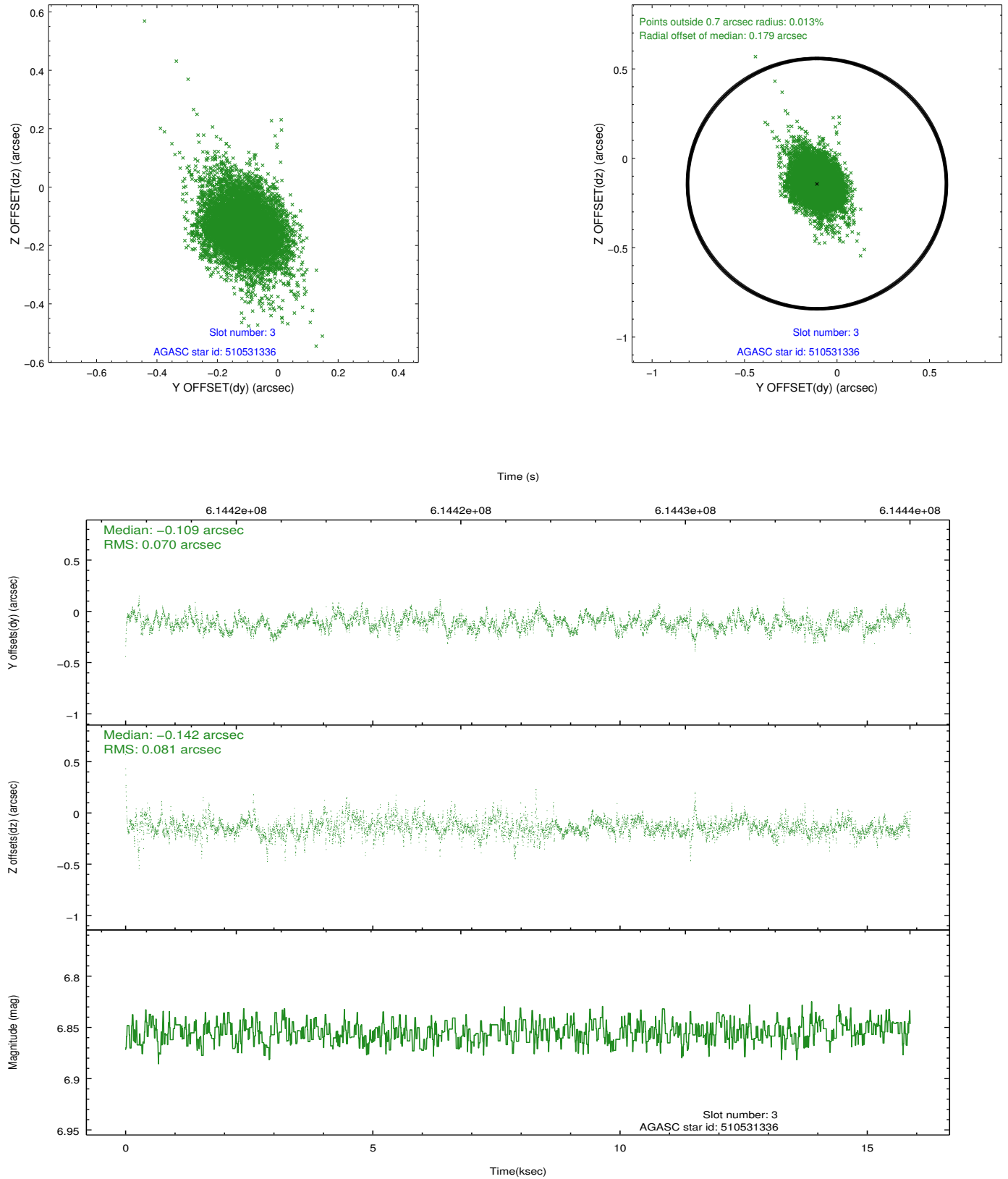


Slot Statistics

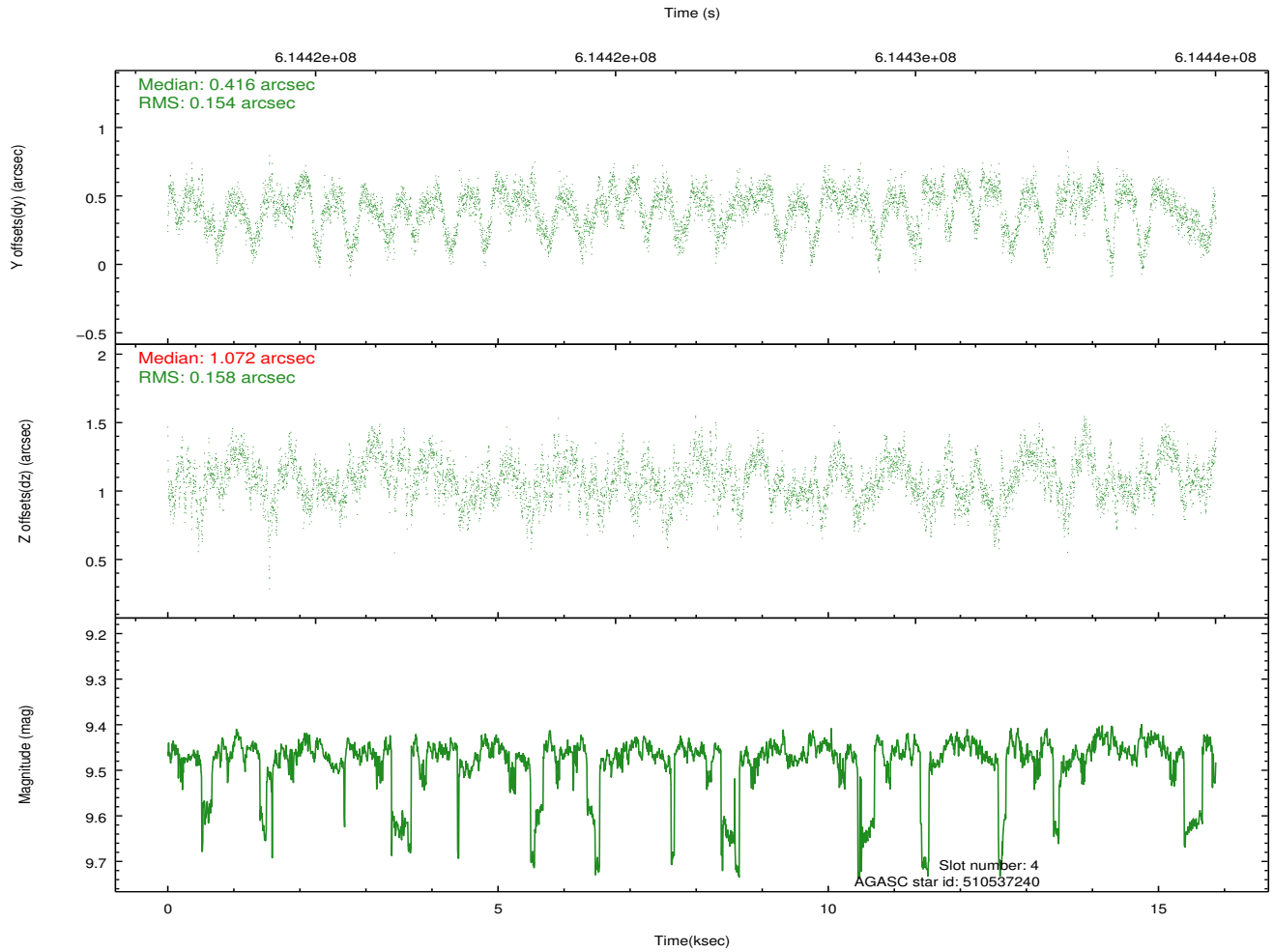
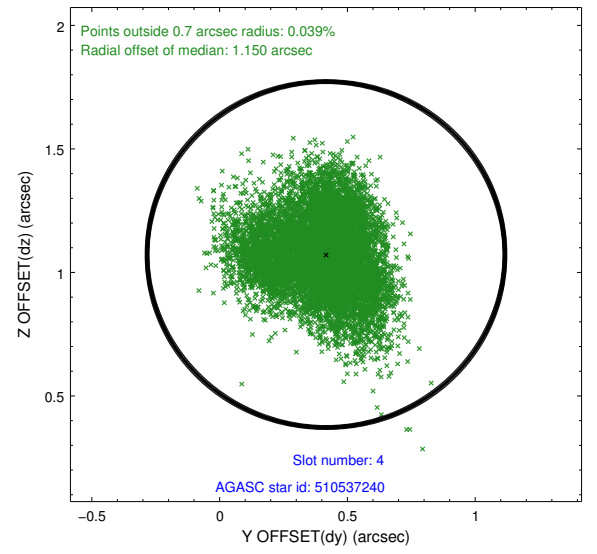
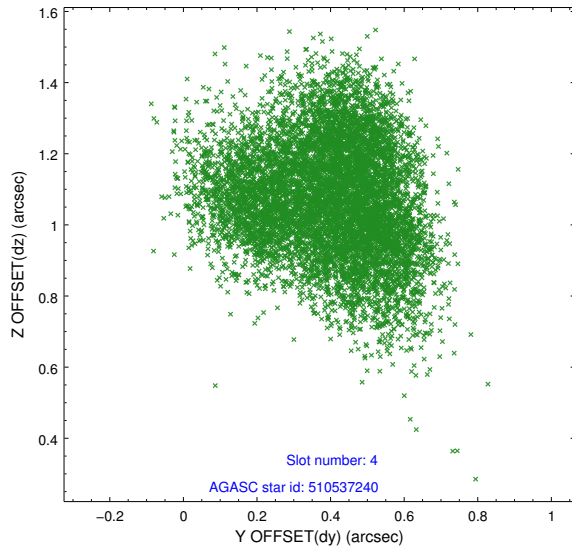
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	3871	-0.238	-0.099	0.012	0.022	0.000000	0.000000	-772.24	-1742.12
1	FID		ACIS-S-4	7.09	3871	0.542	0.141	0.010	0.016	0.000000	0.000000	2141.64	166.39
2	FID		ACIS-S-5	7.07	3872	-0.335	-0.034	0.013	0.025	0.000000	0.000000	-1824.87	160.10
3	GUIDE	used	510531336	6.85	7740	-0.109	-0.142	0.107	0.185	258.217938	57.862631	434.05	-1898.25
4	GUIDE	used	510537240	9.47	7728	0.416	1.072	0.237	0.367	259.436318	57.923115	-1796.35	-1186.55
5	GUIDE	used	510537952	9.40	7734	-0.148	-0.900	0.196	0.317	259.803735	57.190117	-1450.55	1522.10
6	GUIDE	used	510537304	7.31	7739	0.104	0.051	0.115	0.205	257.977845	57.967610	703.42	-2429.24
7	GUIDE	used	510536032	9.24	7732	-0.239	-0.092	0.150	0.249	258.787877	57.540840	-115.19	-401.08

2.4 Star Slots

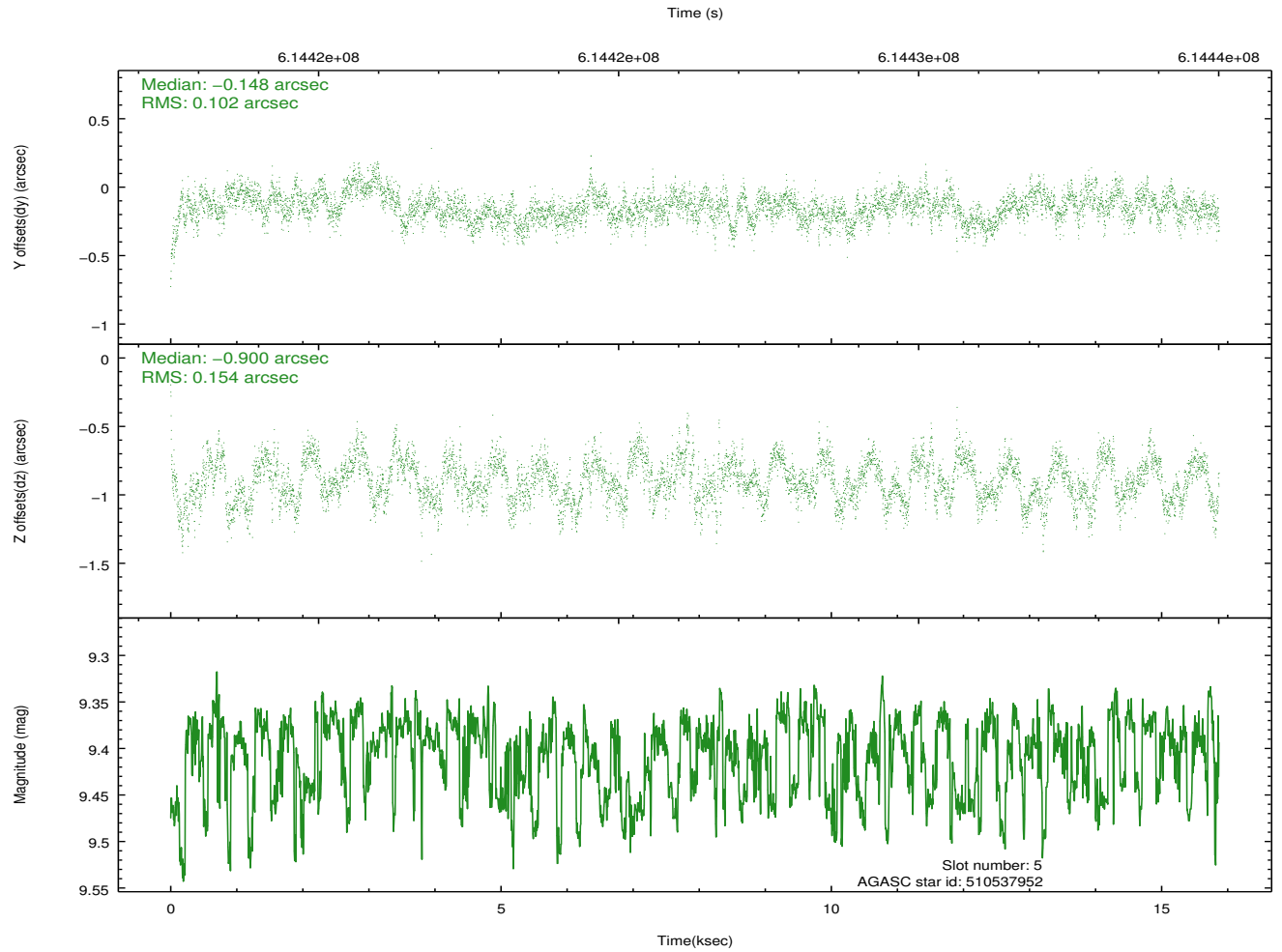
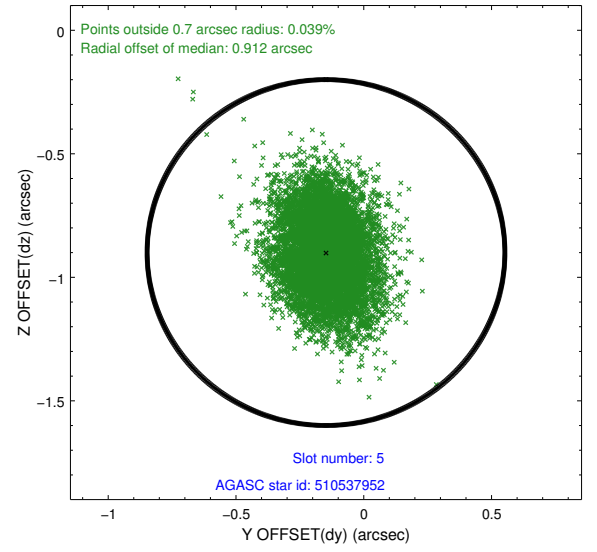
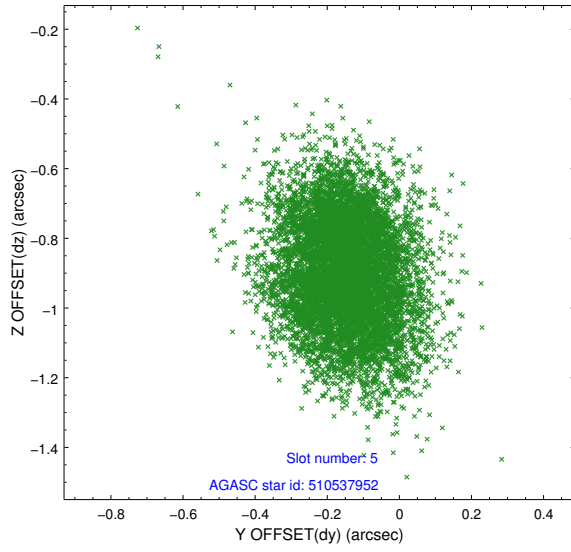
2.4.1 Slot 3



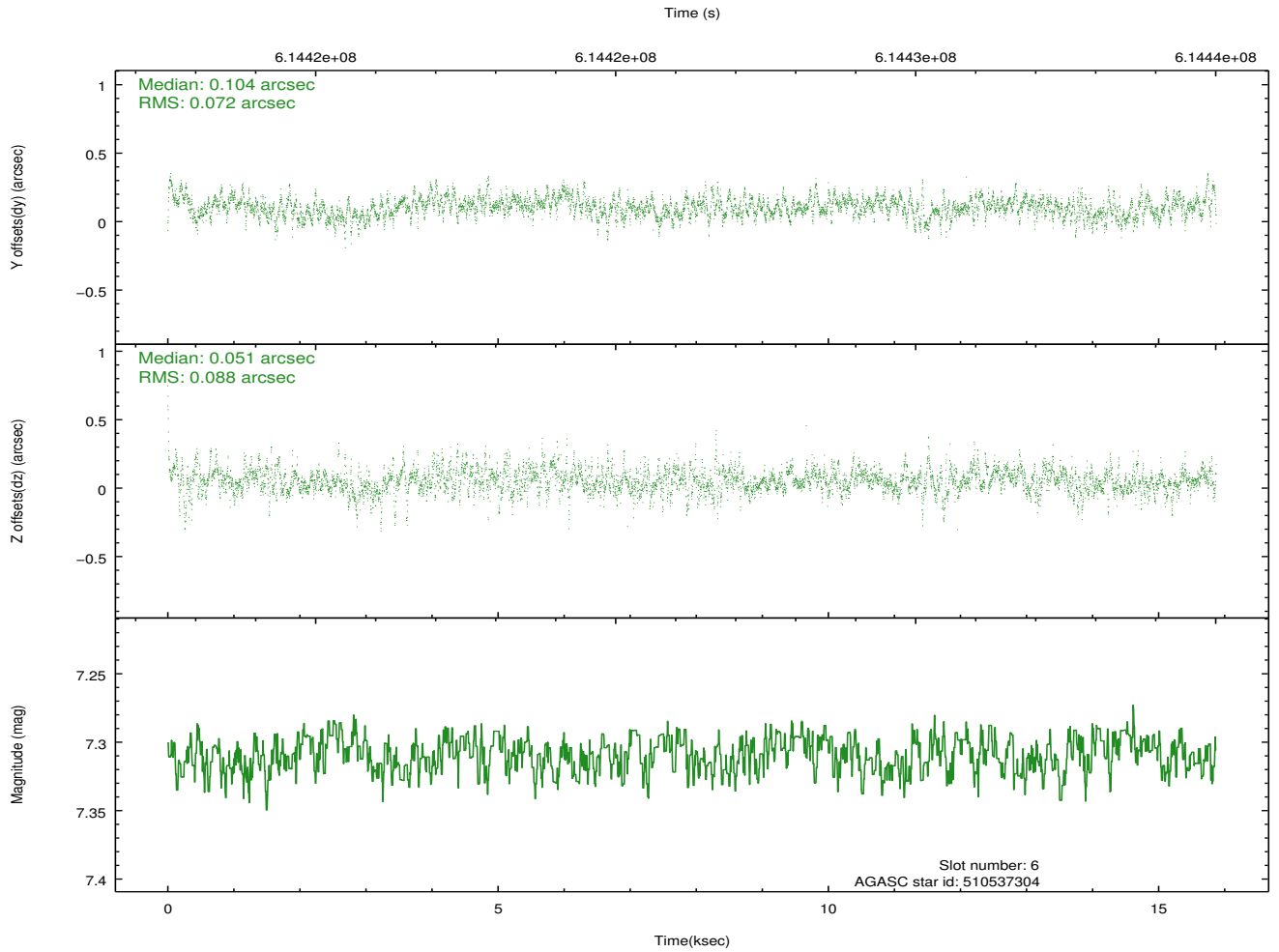
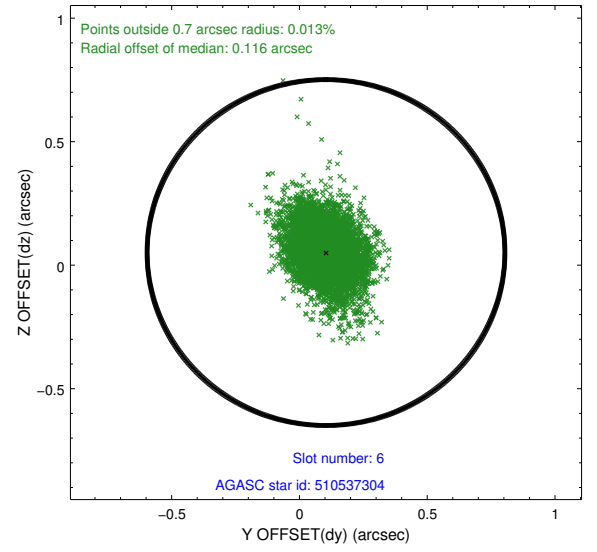
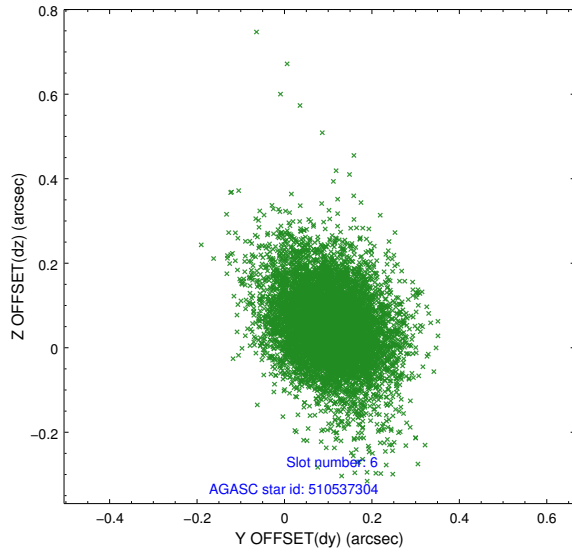
2.4.2 Slot 4



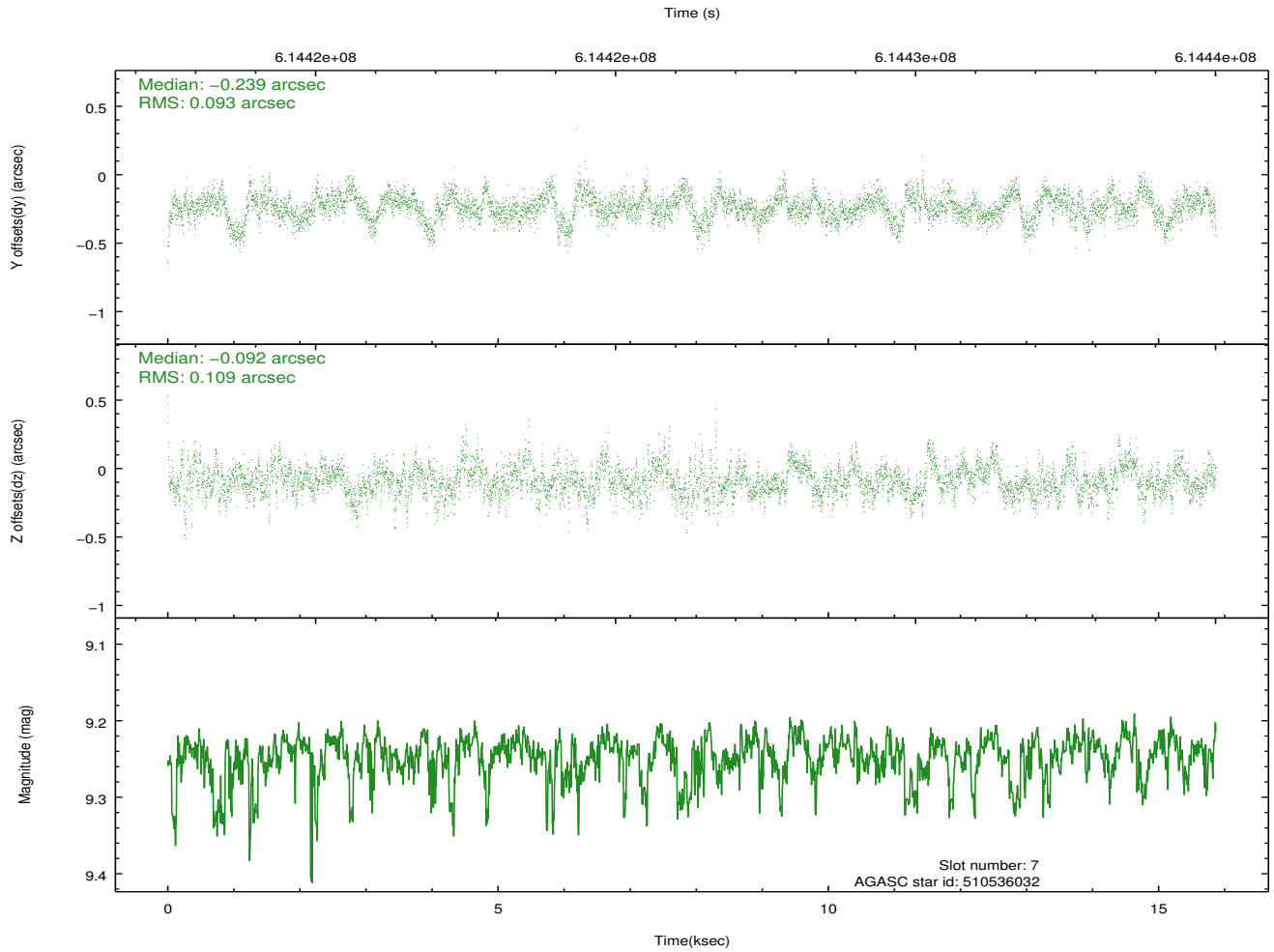
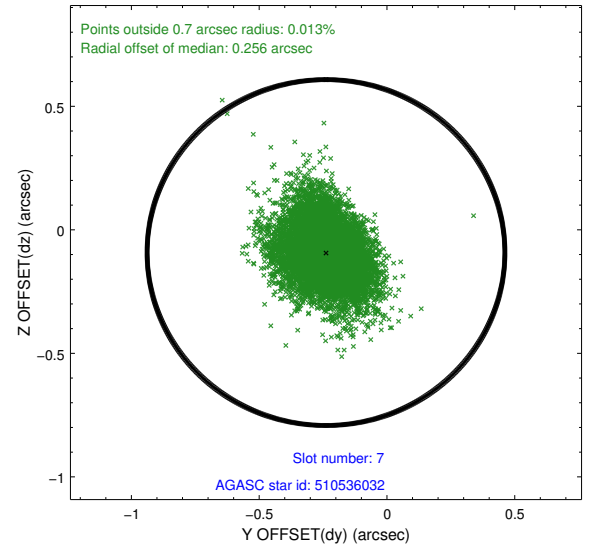
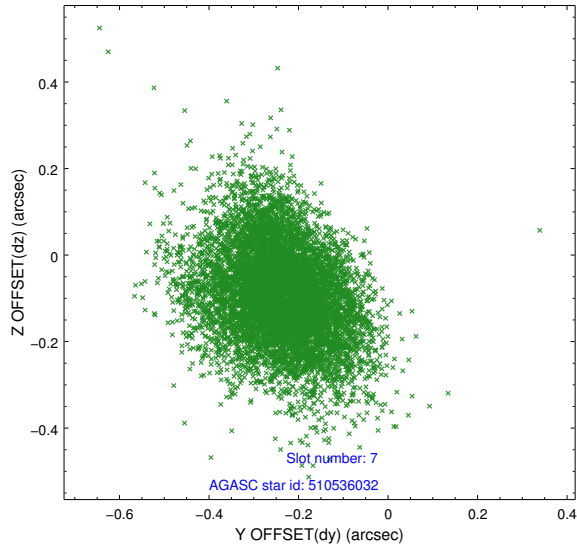
2.4.3 Slot 5



2.4.4 Slot 6

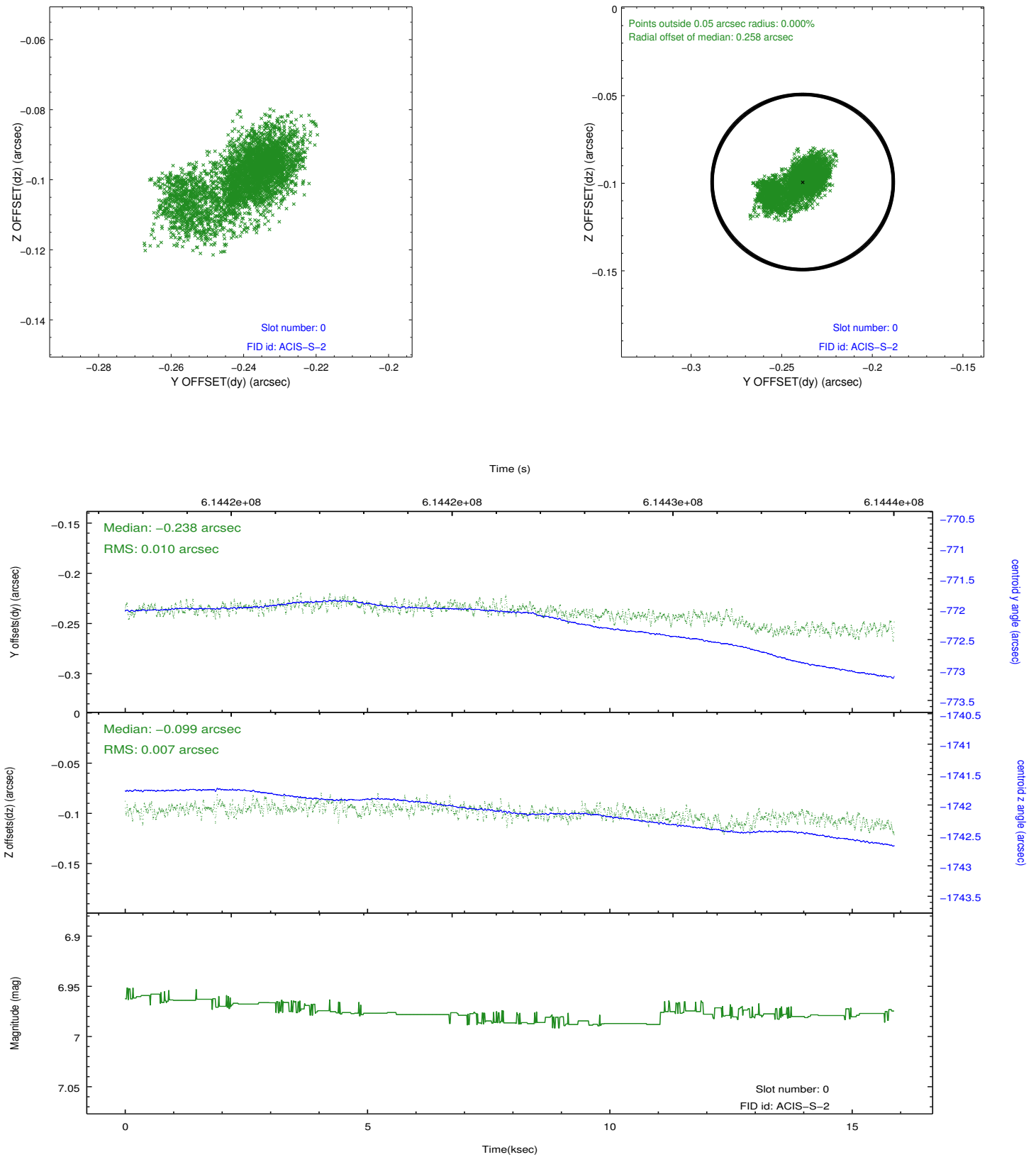


2.4.5 Slot 7

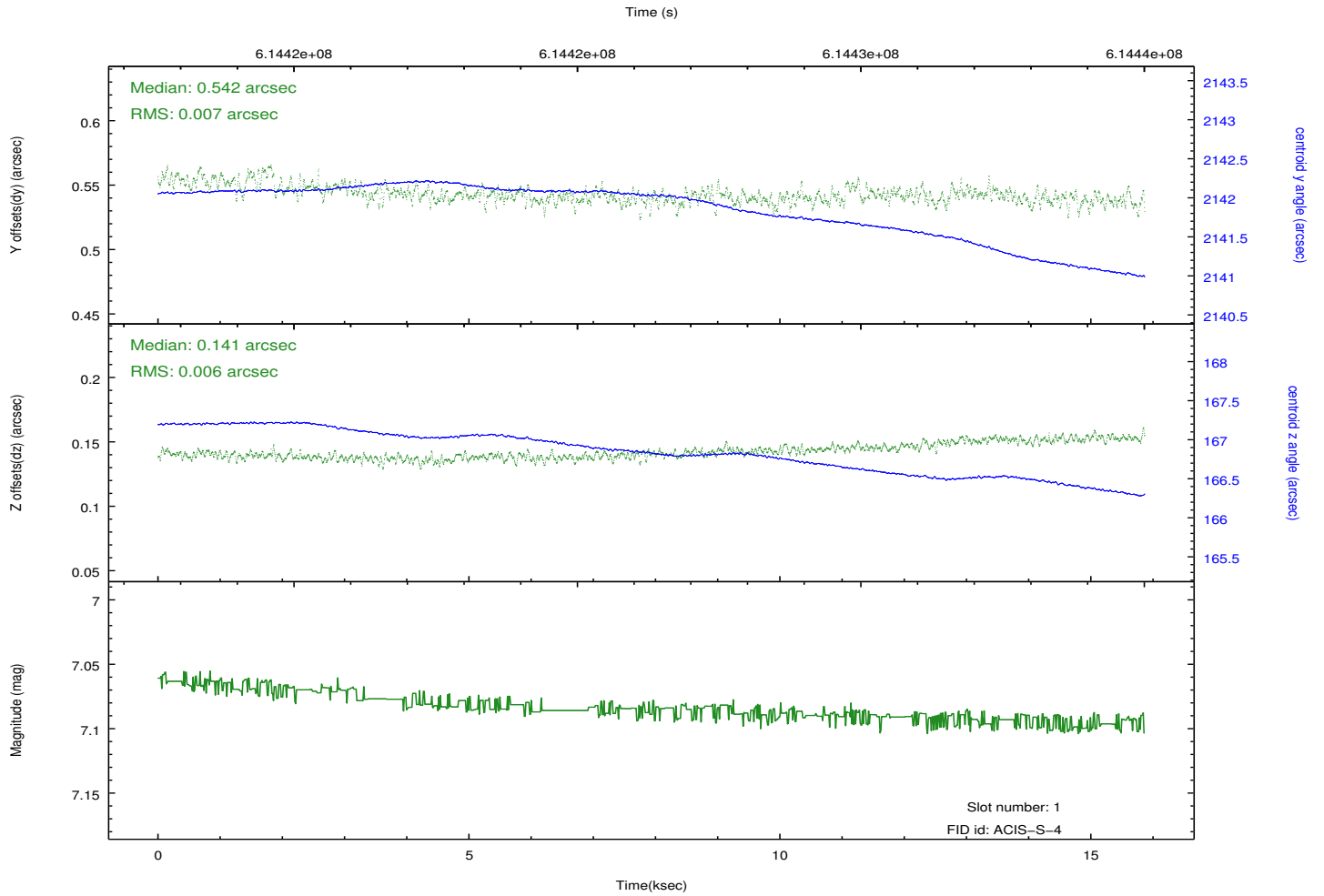
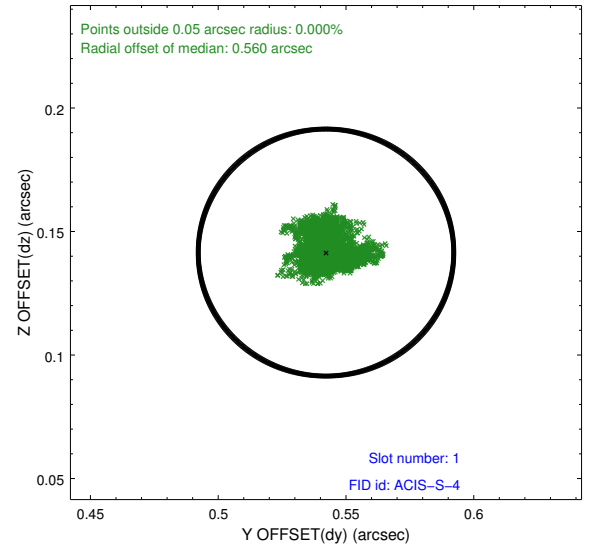
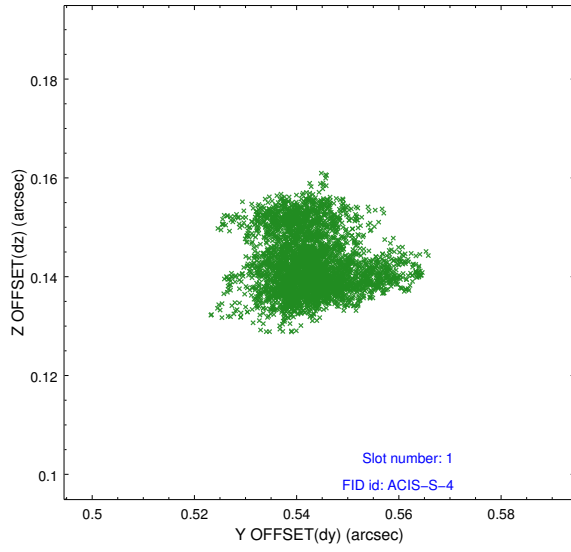


2.5 FID Slots

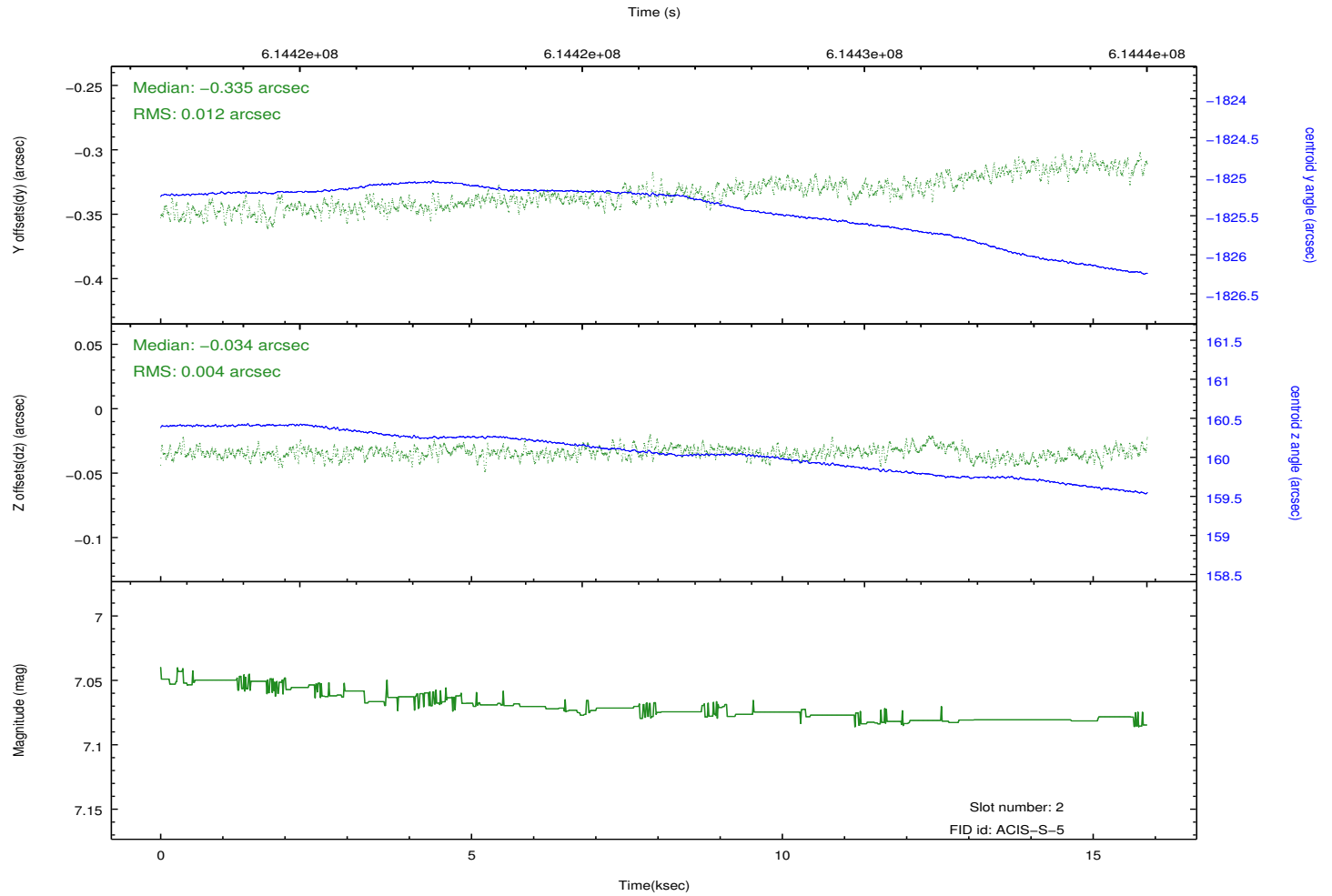
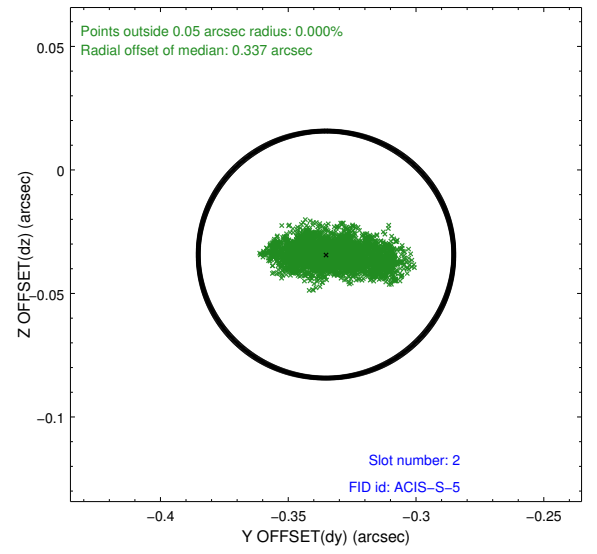
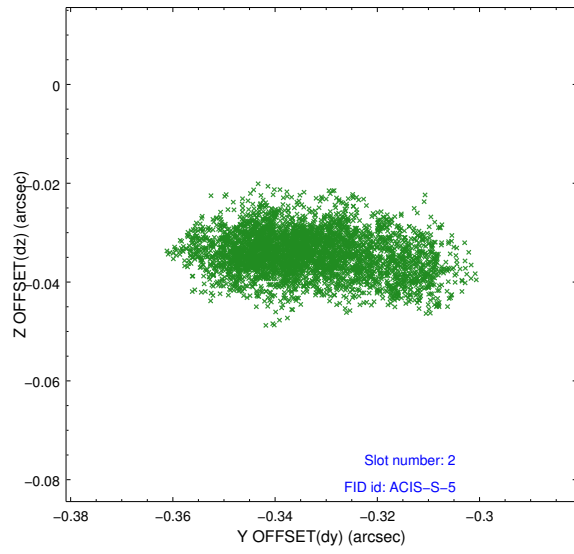
2.5.1 Slot 0



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)	2017.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.053600115895

A.2 Comments

Joint Proposal: XMM