

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18764 - L2 Version 1
Chandra X-Ray Center

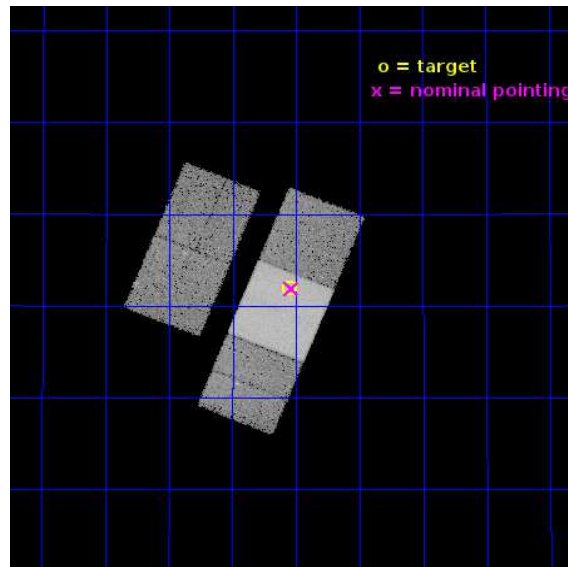
L2 Processing Date : Feb 17 2016

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1 Front

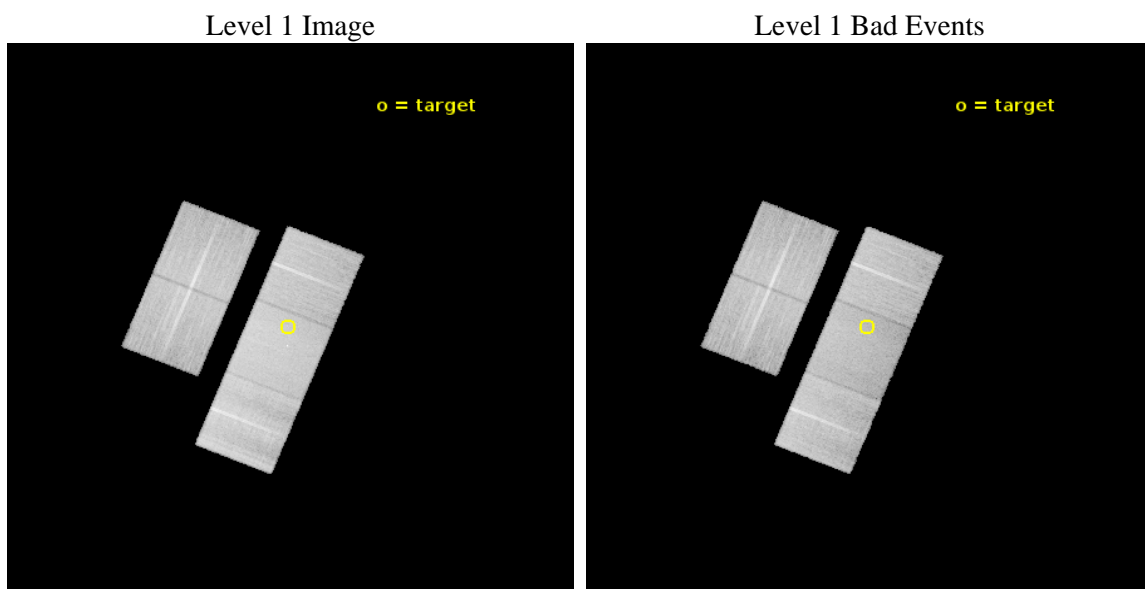
seq_num	502478	Sequence number
obs_id	18764	Observation id
title	The Burst of the Century	Proposal title
observer	Dr. Andrew Fruchter	Principal investigator
object	GRB 130427A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.136667	Observer's specified target RA [deg]
dec_targ	27.698944	Observer's specified target Dec [deg]
ra_nom	173.13408740524	Nominal RA [deg]
dec_nom	27.698200855353	Nominal Dec [deg]
roll_nom	112.15782594398	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29647.309539914	Sum of GTIs [s]
livetime	29259.945614743	Livetime [s]
ontime2	29637.722098827	Sum of GTIs [s]
ontime3	29640.945289254	Sum of GTIs [s]
ontime6	29647.26849997	Sum of GTIs [s]
ontime7	29647.309539914	Sum of GTIs [s]
ontime8	29640.904289603	Sum of GTIs [s]
l2events	168677	Number of level 2 events



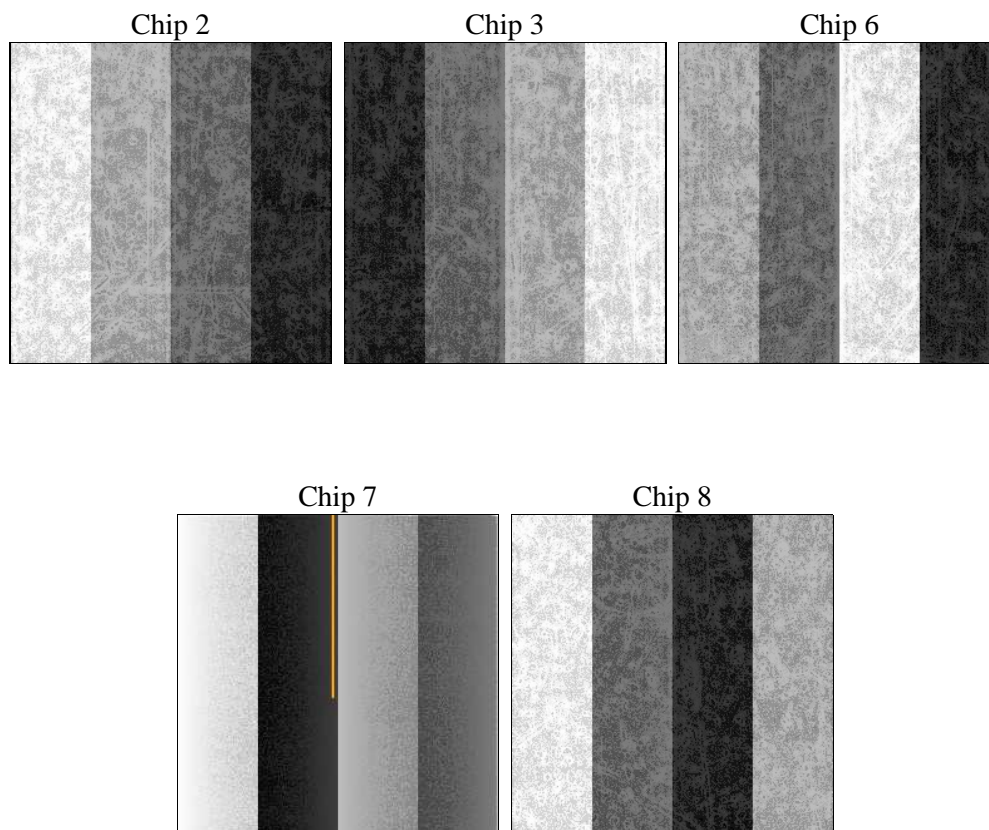
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29605.129000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	29647.309539914	Sum of GTIs [s]
caldsver	4.7.0	 	ontime2	29637.722098827	Sum of GTIs [s]
date	2016-02-17T21:45:27	Date and time of file creation	ontime3	29640.945289254	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	29647.26849997	Sum of GTIs [s]
			ontime7	29647.309539914	Sum of GTIs [s]
			ontime8	29640.904289603	Sum of GTIs [s]
			l1events	1021475	Number of level 1 events

2.1.4 Events

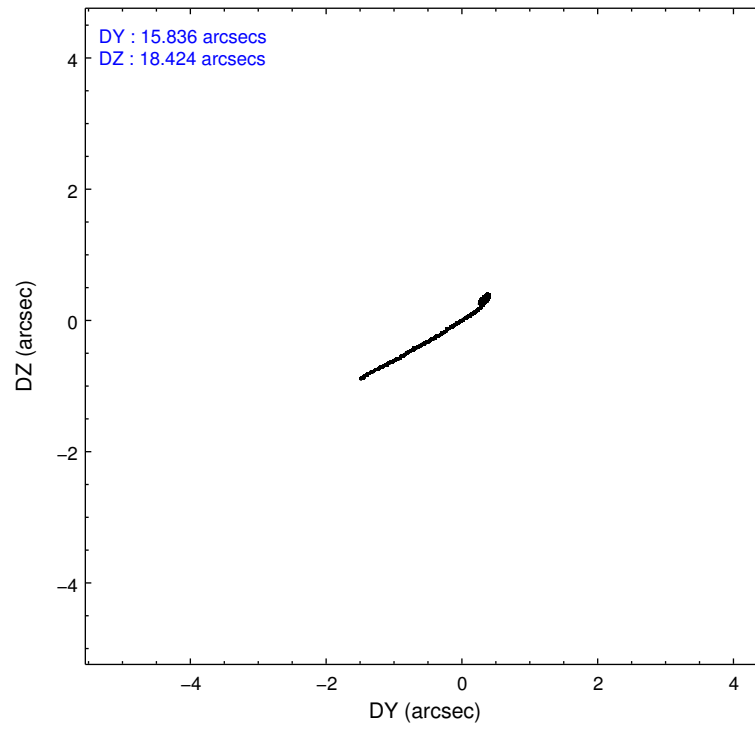
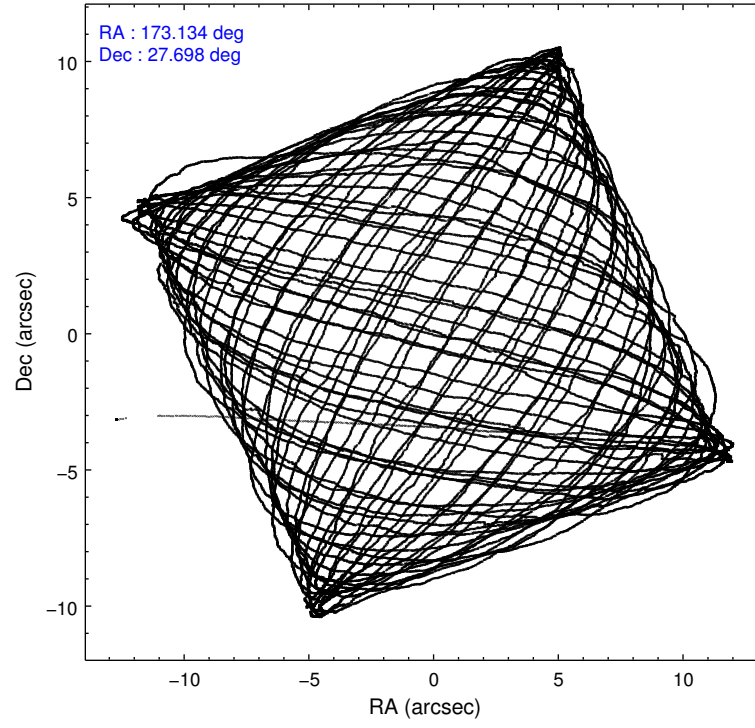
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	180976	177420	188380	235951	238748	grade 0 events	6287	6479	6463	8322	16526
rejected events	162679	158850	168050	135086	178381		3%	3%	3%	3%	6%
rejected %	89%	89%	89%	57%	74%	grade 1 events	95	98	80	306	184
							0%	0%	0%	0%	0%
						grade 2 events	4375	4117	4903	21207	14928
							2%	2%	2%	8%	6%
						grade 3 events	1970	1911	1871	7876	6117
							1%	1%	0%	3%	2%
						grade 4 events	1983	2025	1965	7569	5890
							1%	1%	1%	3%	2%
						grade 5 events	7192	8656	8651	23066	13101
							3%	4%	4%	9%	5%
						grade 6 events	3682	4041	5132	55900	16910
							2%	2%	2%	23%	7%
						grade 7 events	155392	150093	159315	111705	165092
							85%	84%	84%	47%	69%

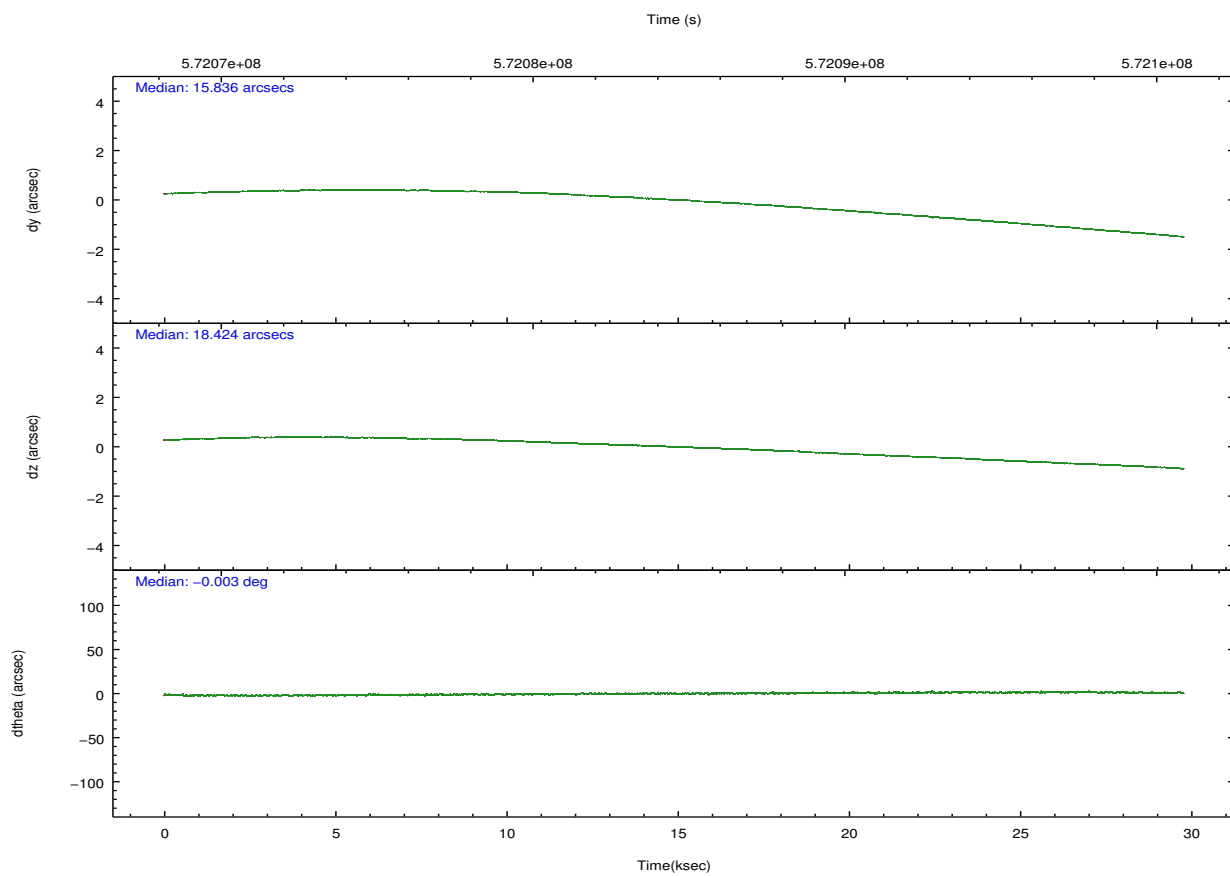
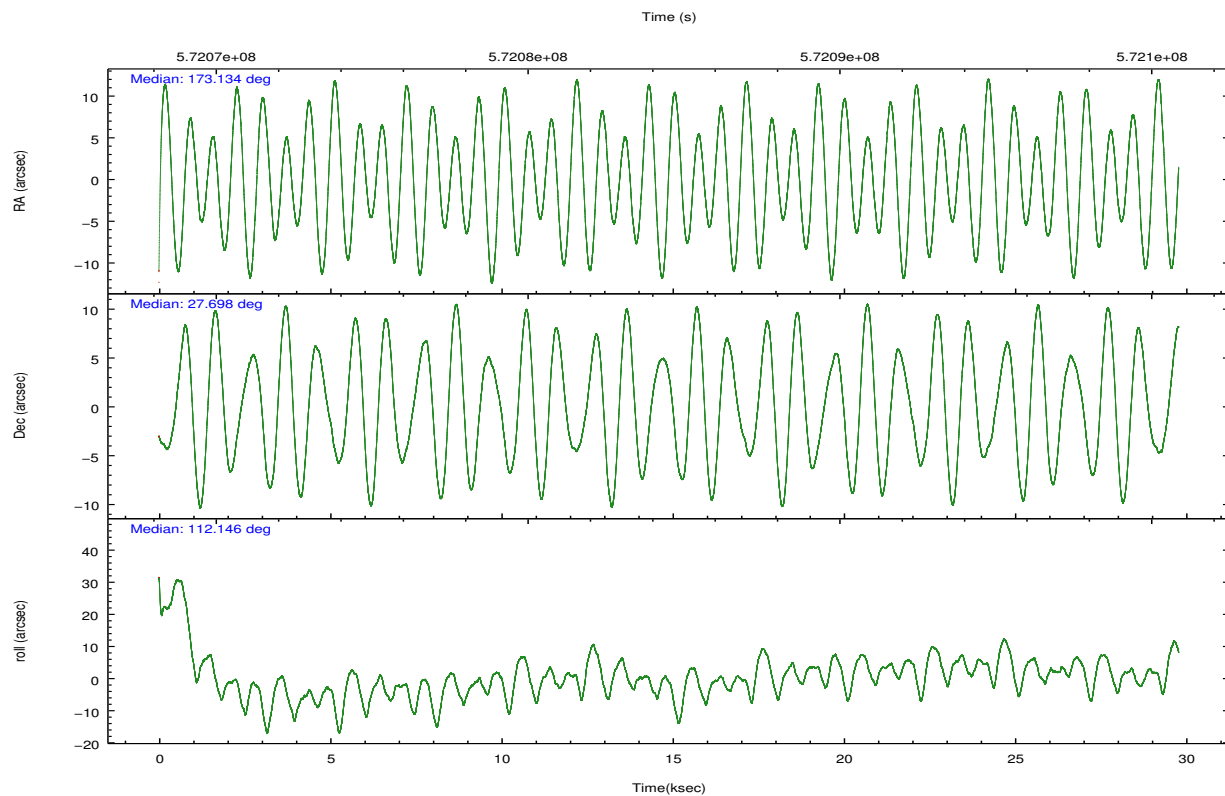
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	173.158818	173.1340874052418
[deg] Pointing Dec	27.681663	27.69820085535289
[deg] Pointing Roll	111.989706	112.1578259439805
[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)	572069790.184000	572068718.40881
Observation start date	2016-02-17T04:15:22	2016-02-17T03:58:38
[s] Observation end time (MET)	572099395.184000	572099620.1105601
Observation end date	2016-02-17T12:28:47	2016-02-17T12:33:40
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	3.1

2.3 Aspect



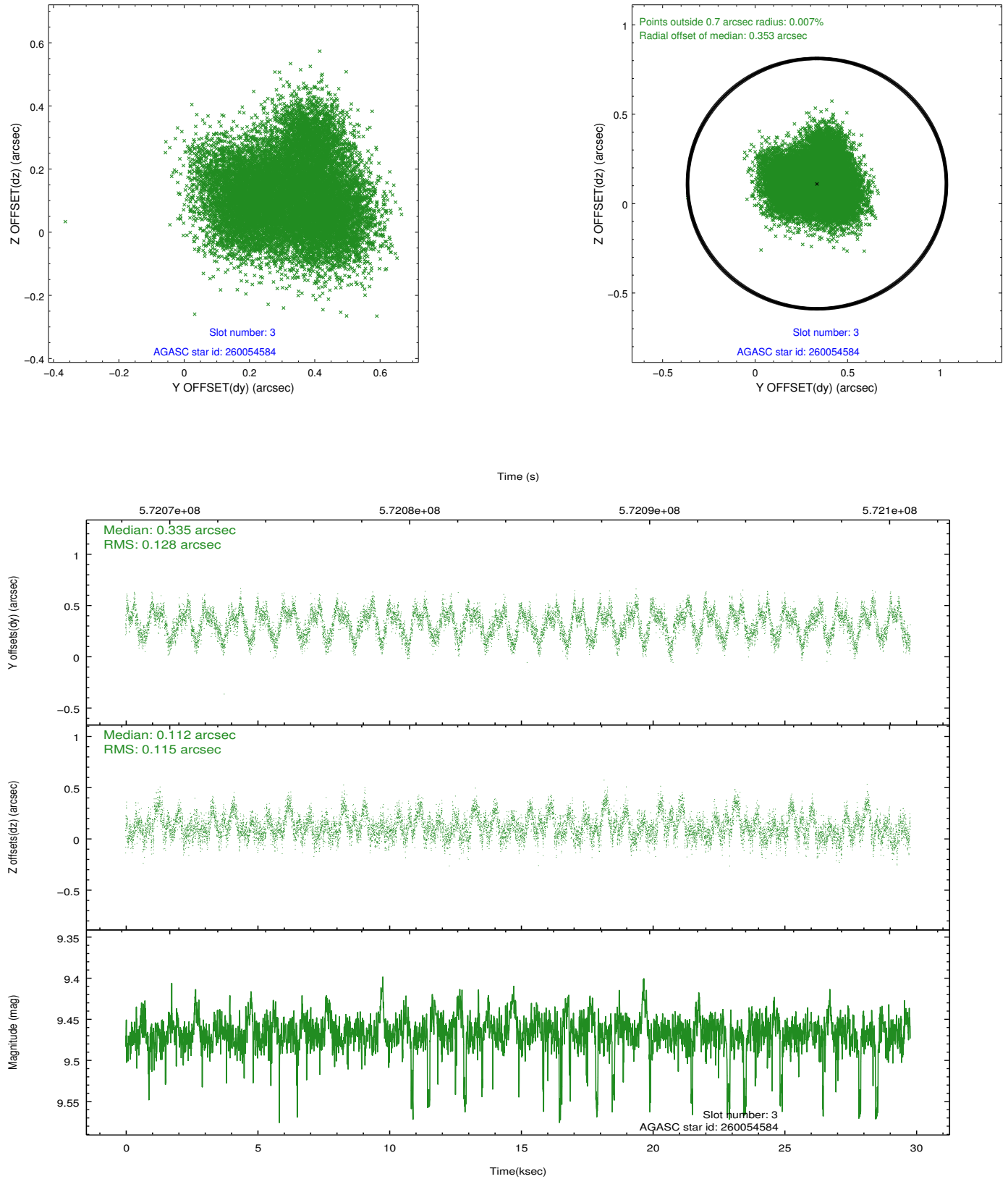


Slot Statistics

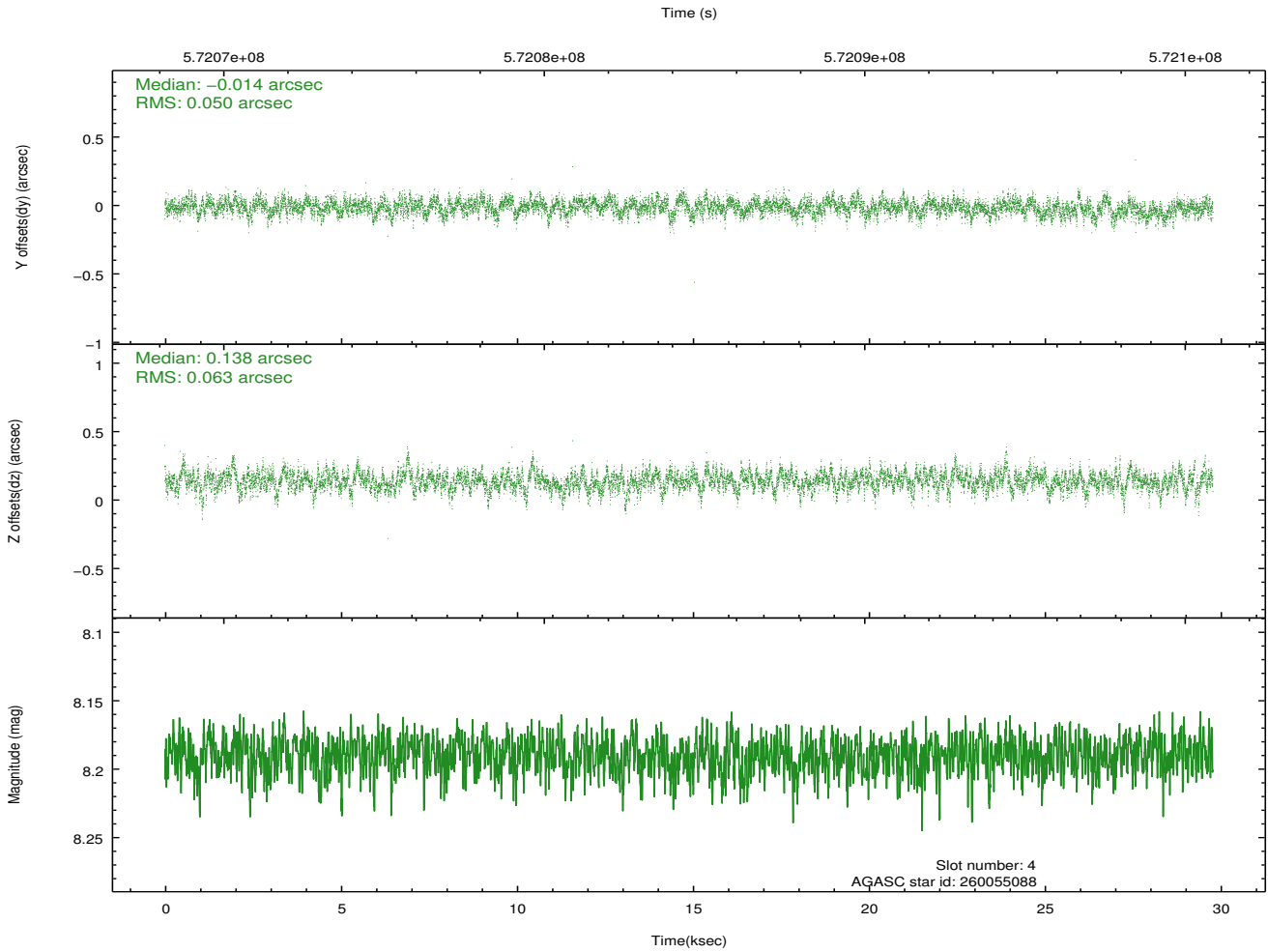
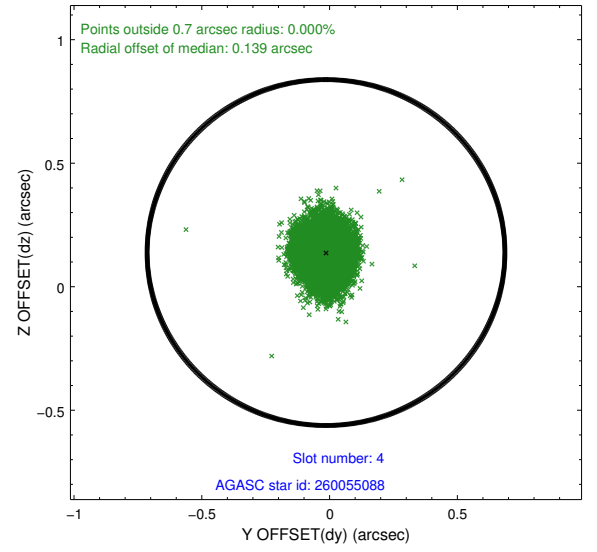
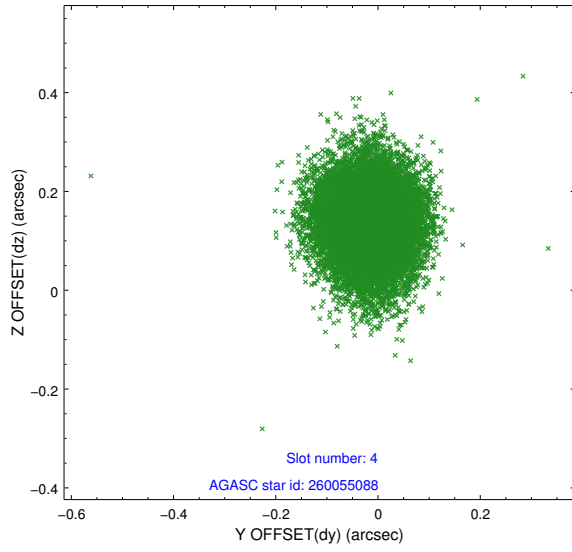
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	7264	-0.171	-0.128	0.010	0.022	0.000000	0.000000	-768.81	-1739.93
1	FID		ACIS-S-4	7.23	7265	0.415	0.116	0.012	0.019	0.000000	0.000000	2145.04	168.69
2	FID		ACIS-S-5	7.24	7265	-0.274	0.020	0.015	0.036	0.000000	0.000000	-1821.64	162.39
3	GUIDE	used	260054584	9.47	14518	0.335	0.112	0.189	0.281	173.745505	27.752896	-456.95	-1830.20
4	GUIDE	used	260055088	8.19	14528	-0.014	0.138	0.084	0.140	173.495126	27.260186	-1808.14	-430.31
5	GUIDE	used	260055768	8.99	14521	0.010	0.077	0.150	0.236	172.801335	27.536211	-56.63	1253.84
6	GUIDE	used	260060264	7.76	14528	-0.636	-0.536	0.092	0.145	172.398353	28.089889	2273.53	1687.19
7	GUIDE	used	260050336	9.67	14411	0.324	0.216	0.225	0.368	173.719338	27.205891	-2254.96	-1023.81

2.4 Star Slots

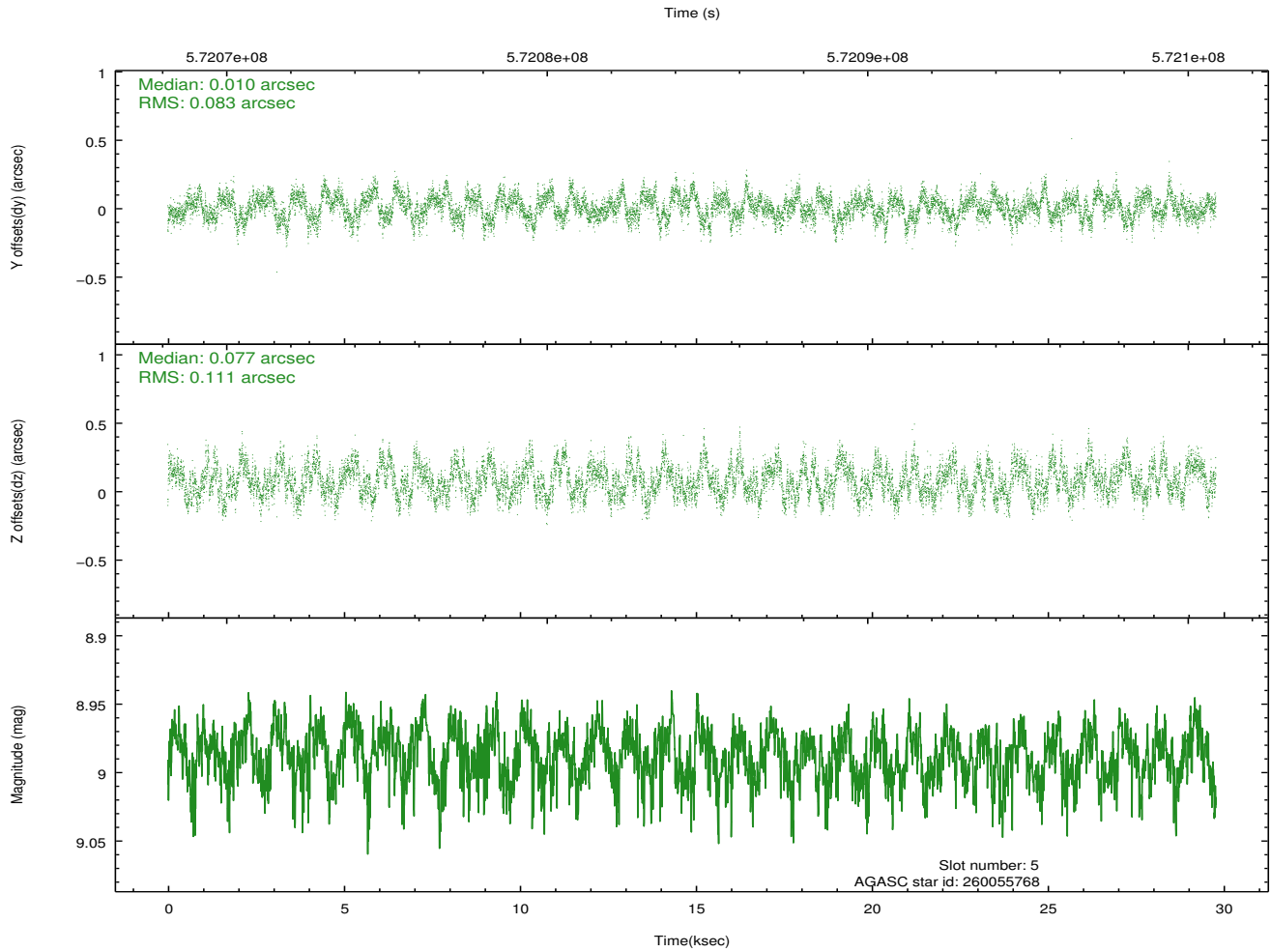
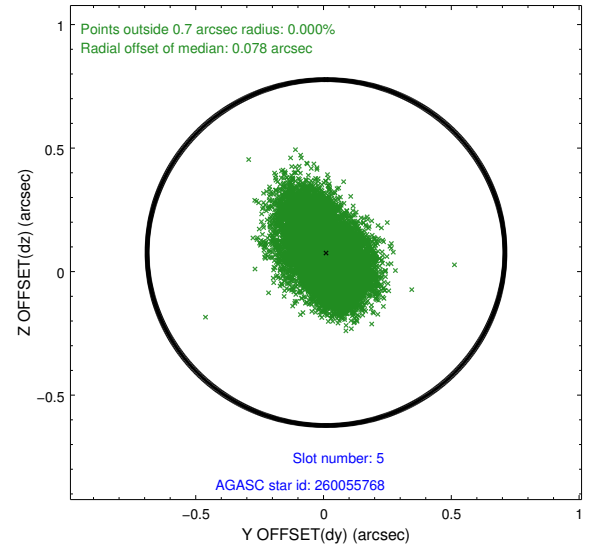
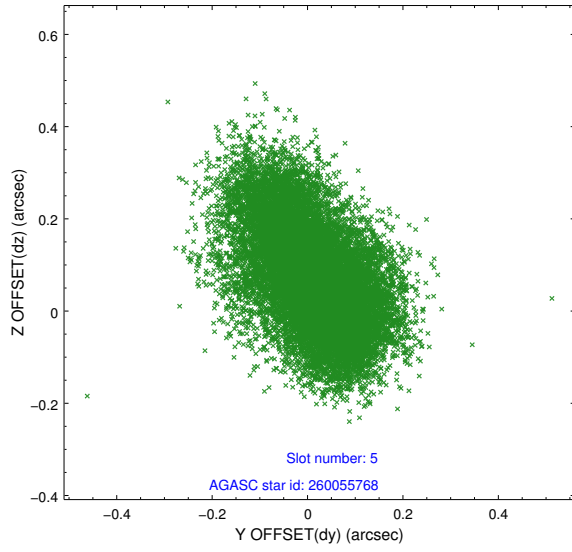
2.4.1 Slot 3



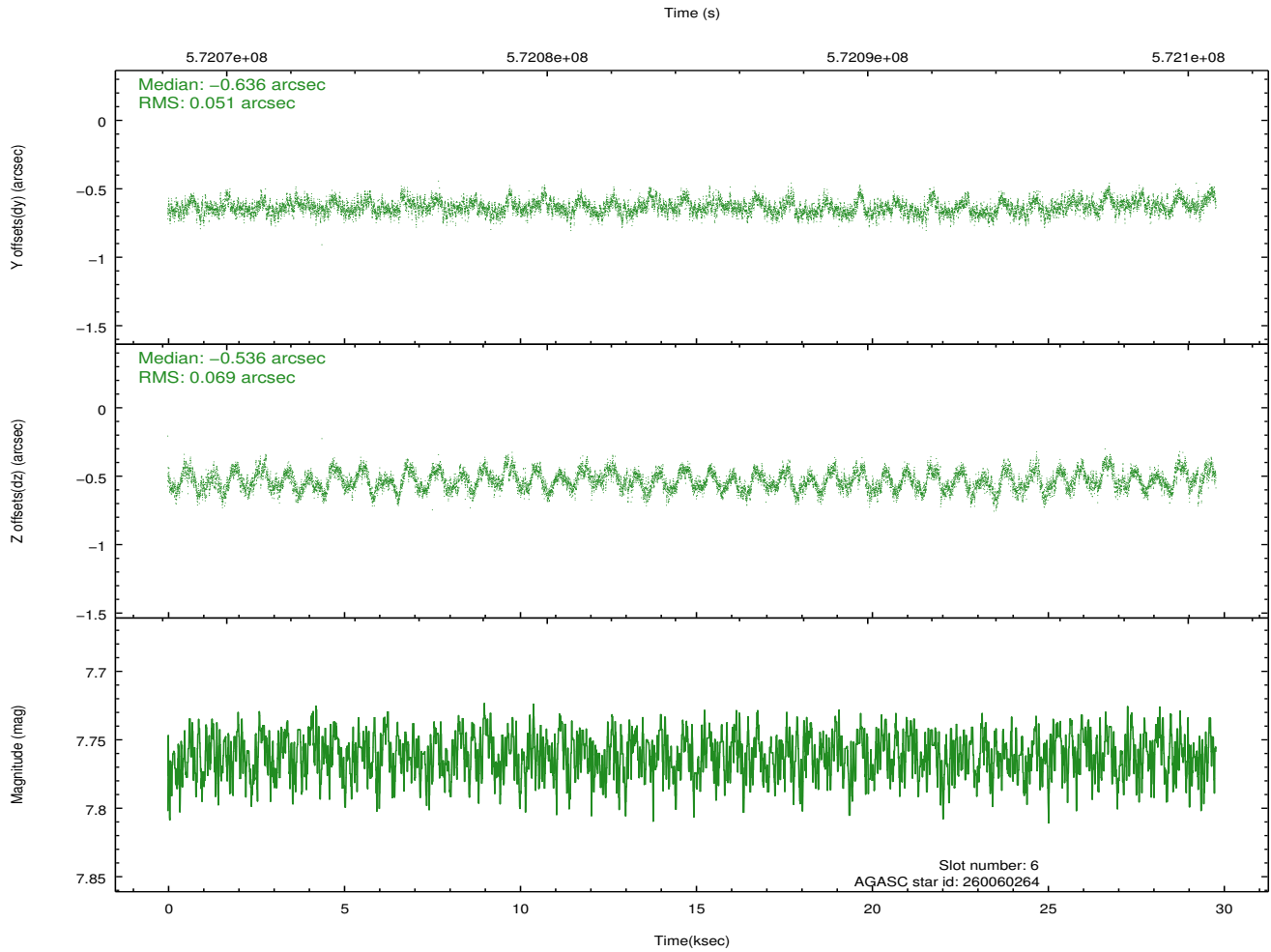
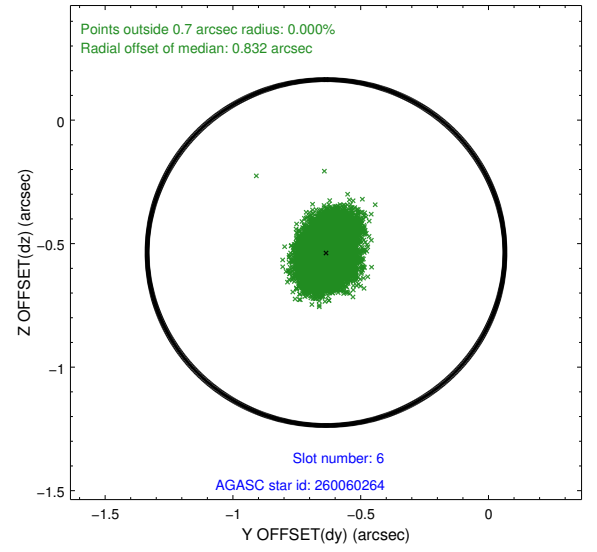
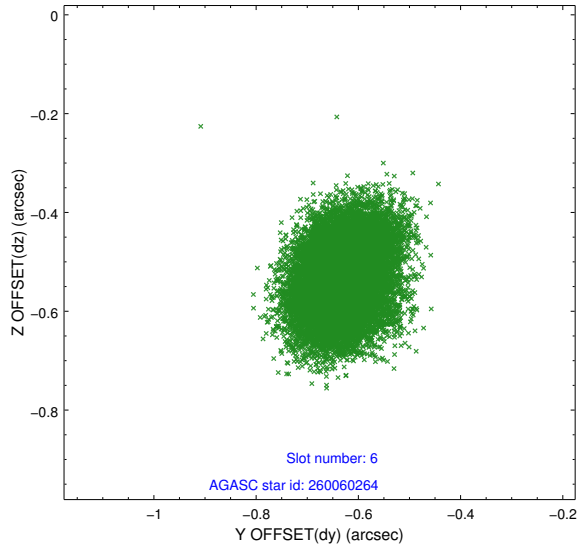
2.4.2 Slot 4



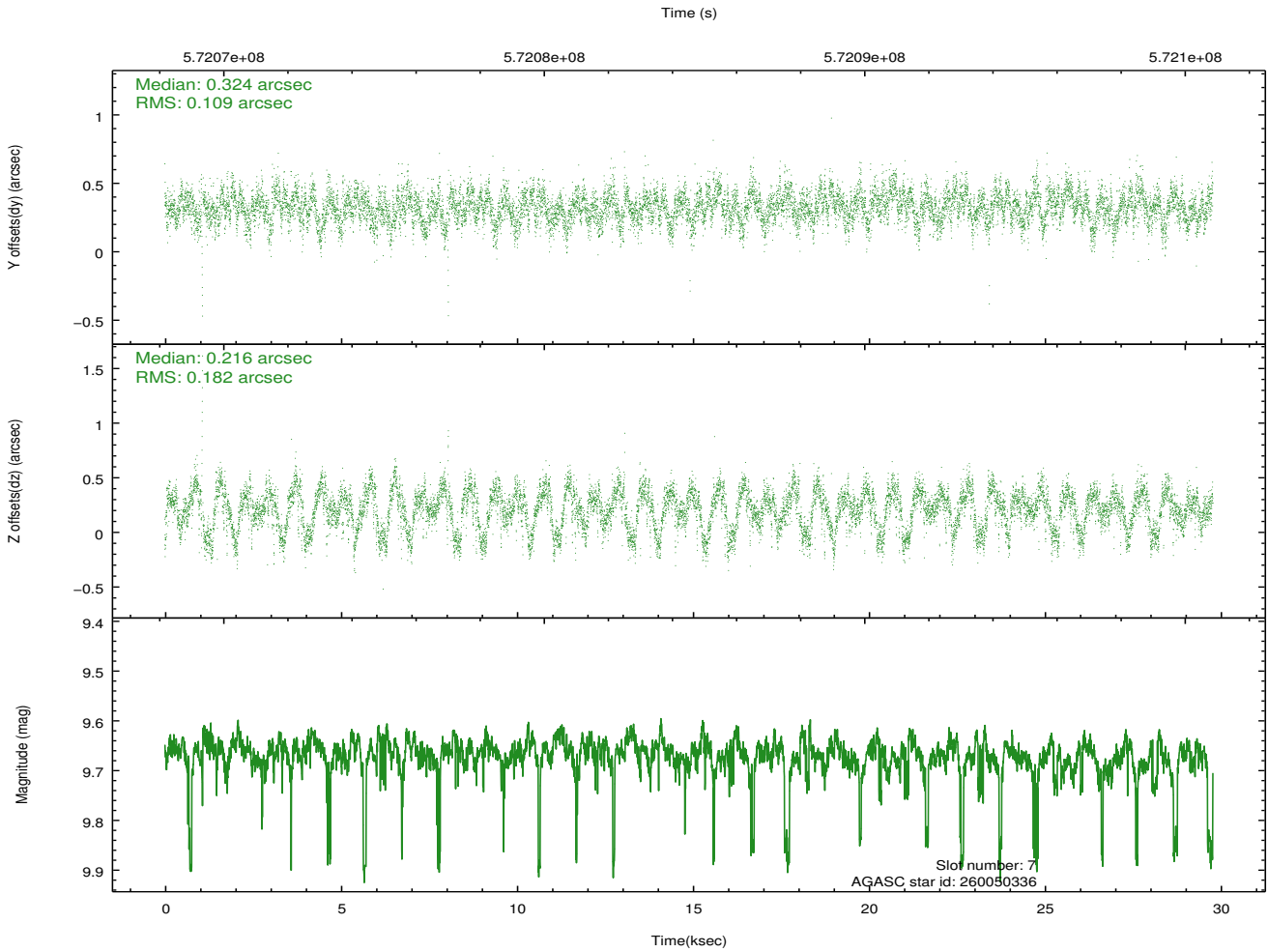
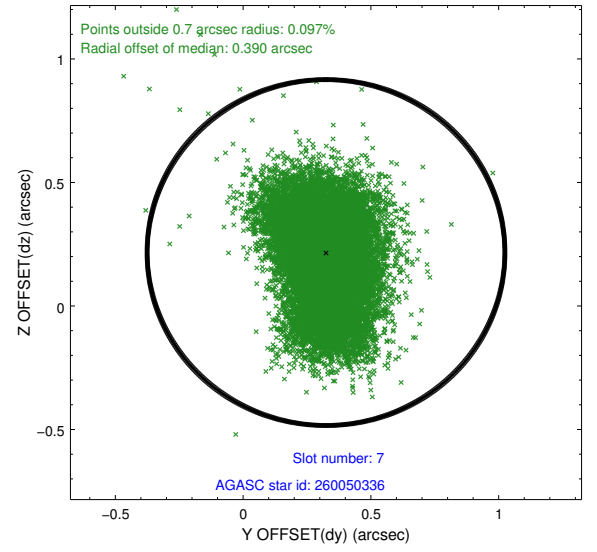
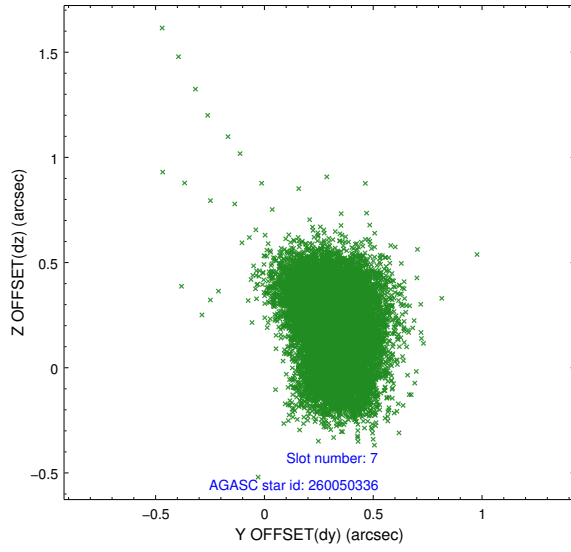
2.4.3 Slot 5



2.4.4 Slot 6

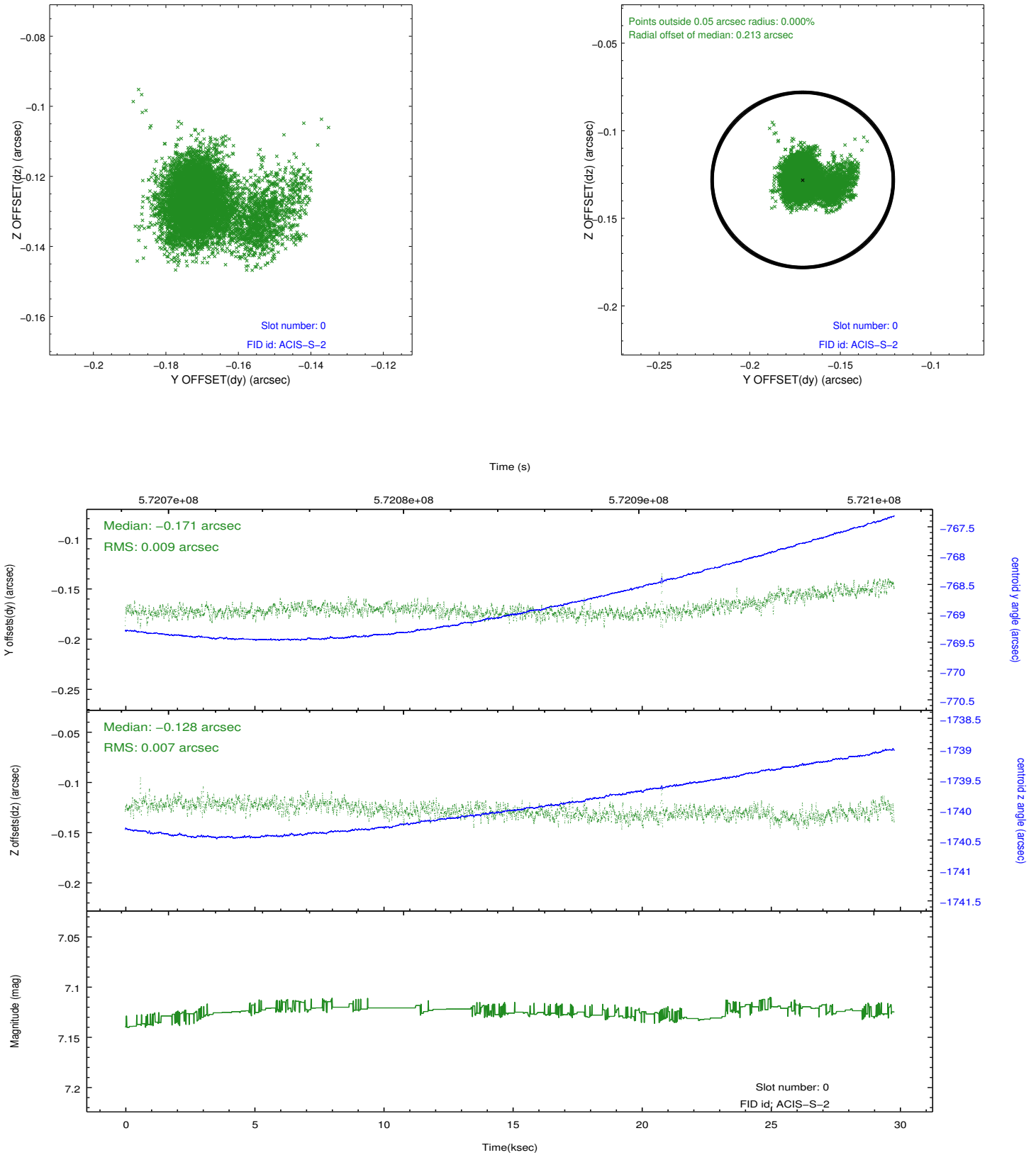


2.4.5 Slot 7

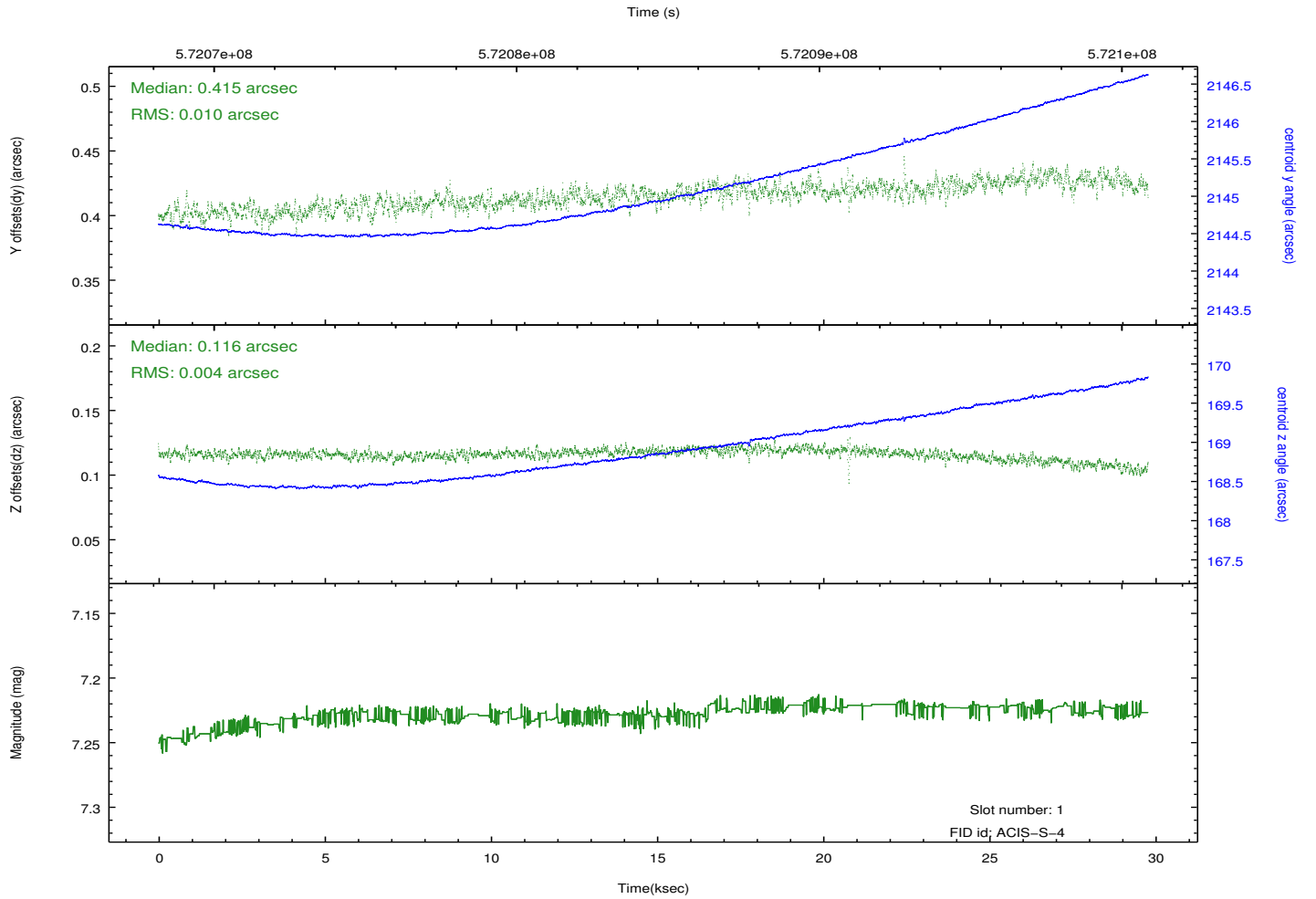
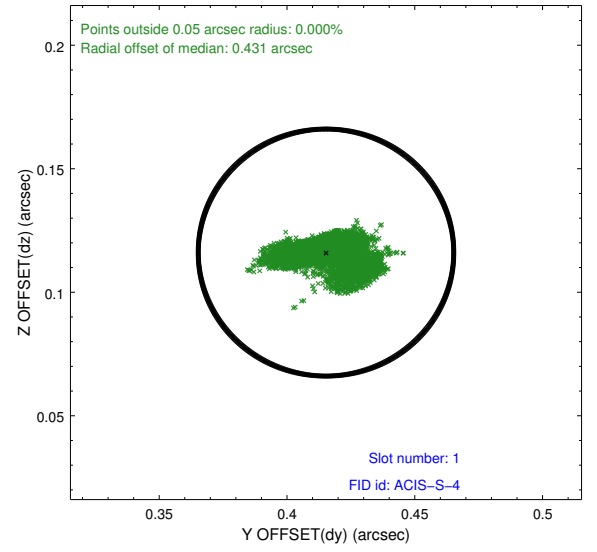
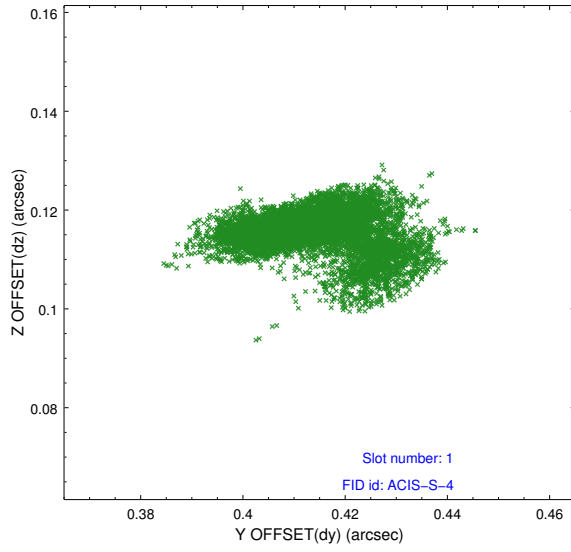


2.5 FID Slots

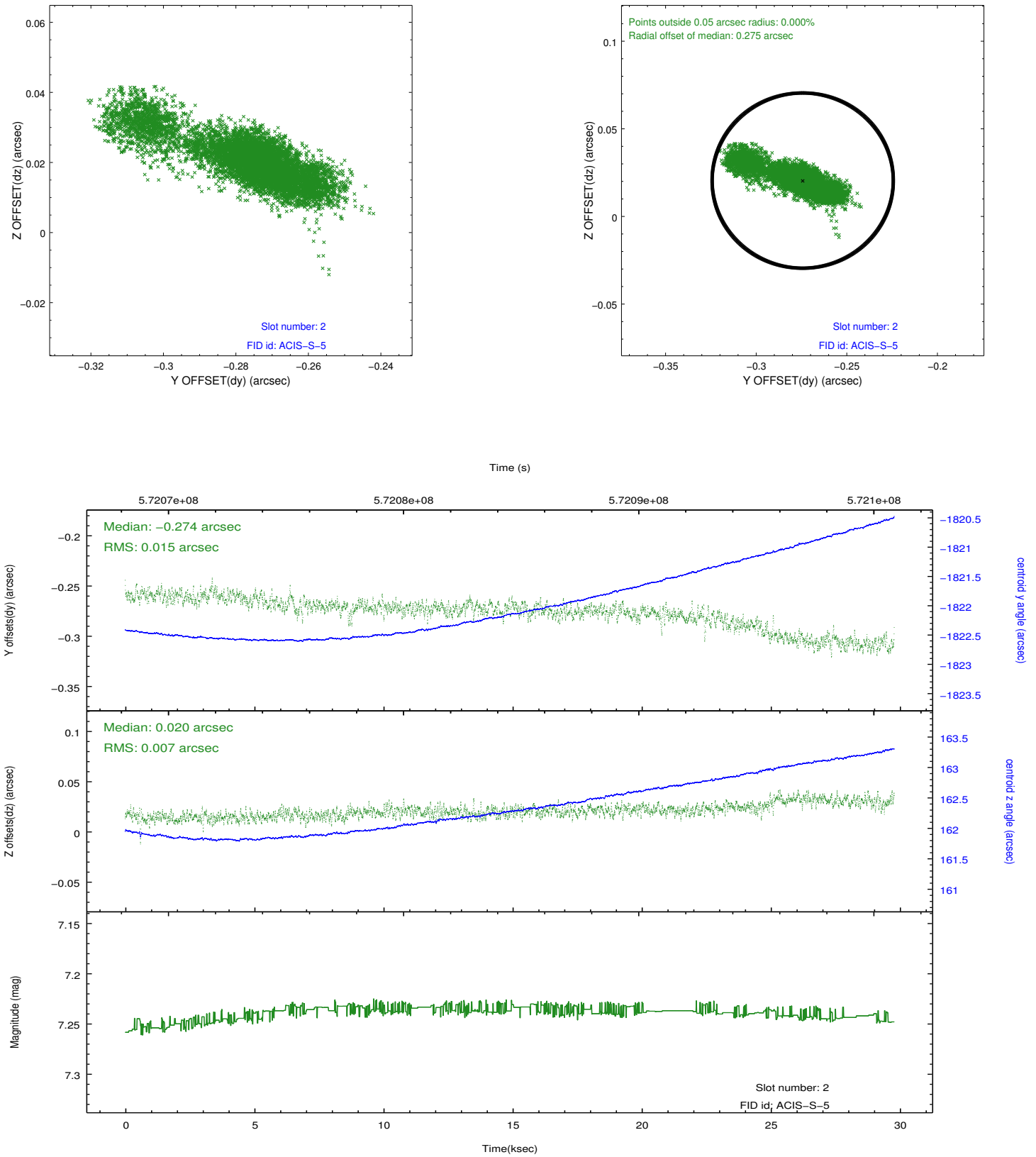
2.5.1 Slot 0



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)	2016.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.647309539914

A.2 Comments