

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17728 - L2 Version 2
Chandra X-Ray Center

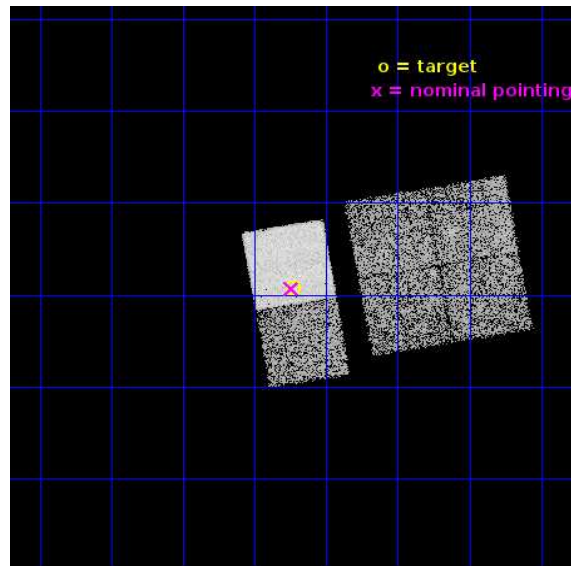
L2 Processing Date : Mar 30 2016

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1 Front

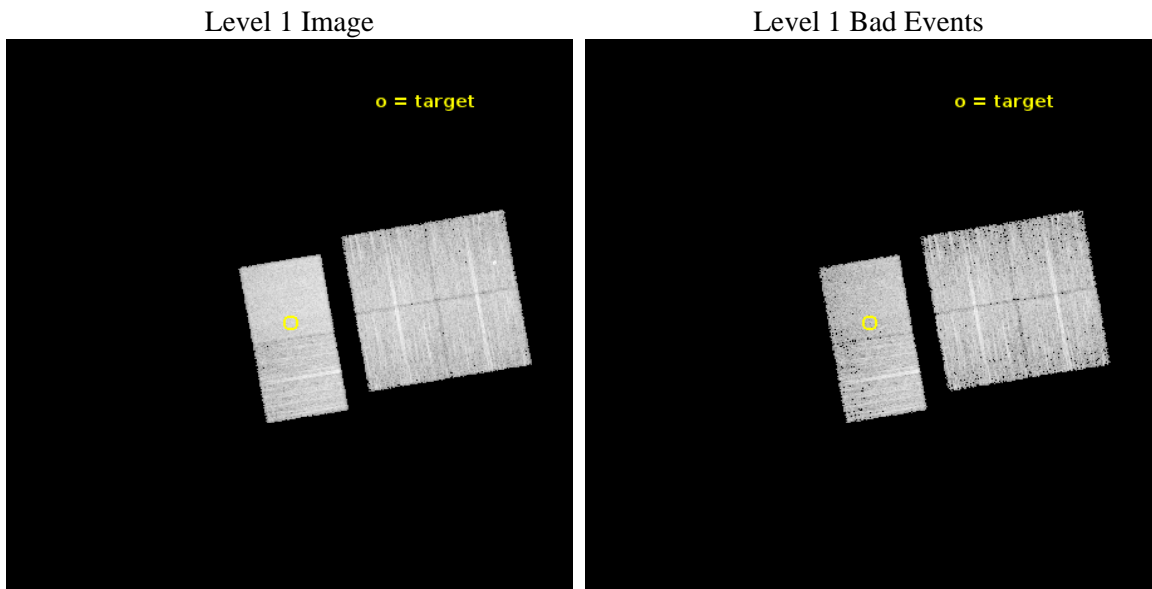
seq_num	201039	Sequence number
obs_id	17728	Observation id
title	The rotation/activity relation of M dwarfs	Proposal title
observer	Dr Beate Stelzer	Principal investigator
object	201364753	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.308333	Observer's specified target RA [deg]
dec_targ	-1.487778	Observer's specified target Dec [deg]
ra_nom	174.3107611633	Nominal RA [deg]
dec_nom	-1.489053544281	Nominal Dec [deg]
roll_nom	260.15669276915	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8965.0806254148	Sum of GTIs [s]
livetime	8851.5593764124	Livetime [s]
ontime0	8965.1216653585	Sum of GTIs [s]
ontime1	8964.9164654016	Sum of GTIs [s]
ontime2	8964.9575053453	Sum of GTIs [s]
ontime3	8964.9985454082	Sum of GTIs [s]
ontime6	8965.0395853519	Sum of GTIs [s]
ontime7	8965.0806254148	Sum of GTIs [s]
l2events	55425	Number of level 2 events



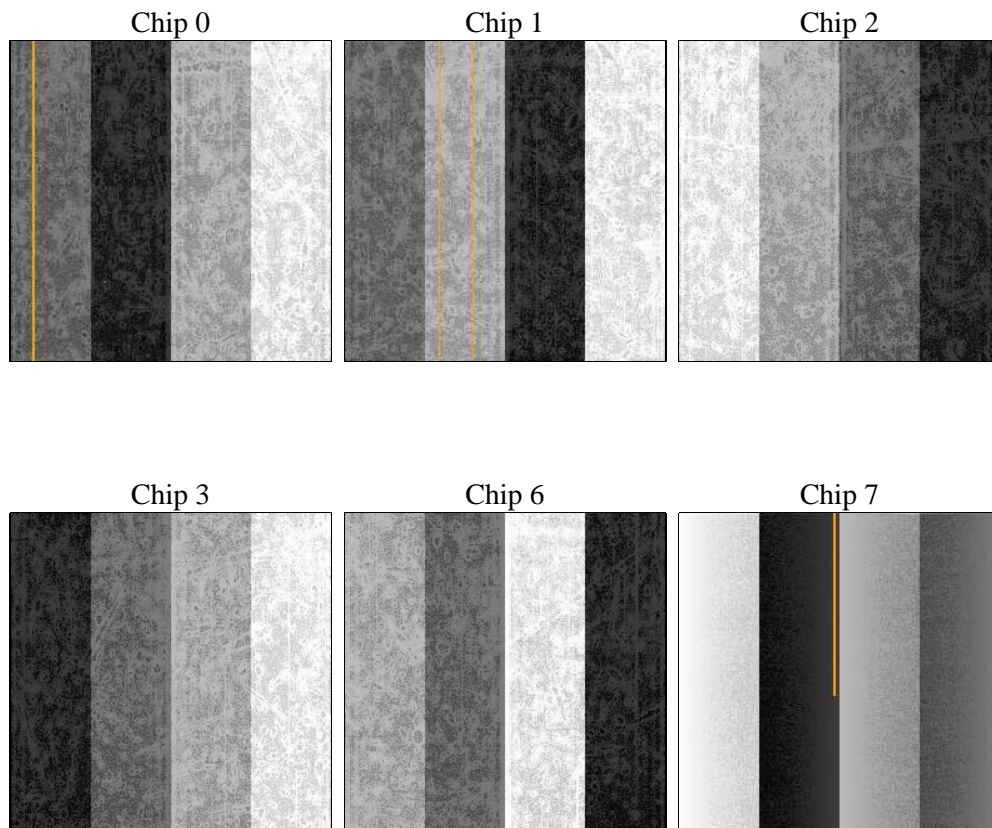
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	8965.0806254148	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	8965.1216653585	Sum of GTIs [s]
date	2016-03-30T04:18:07	Date and time of file creation	ontime1	8964.9164654016	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8964.9575053453	Sum of GTIs [s]
			ontime3	8964.9985454082	Sum of GTIs [s]
			ontime6	8965.0395853519	Sum of GTIs [s]
			ontime7	8965.0806254148	Sum of GTIs [s]
			l1events	325547	Number of level 1 events

2.1.4 Events

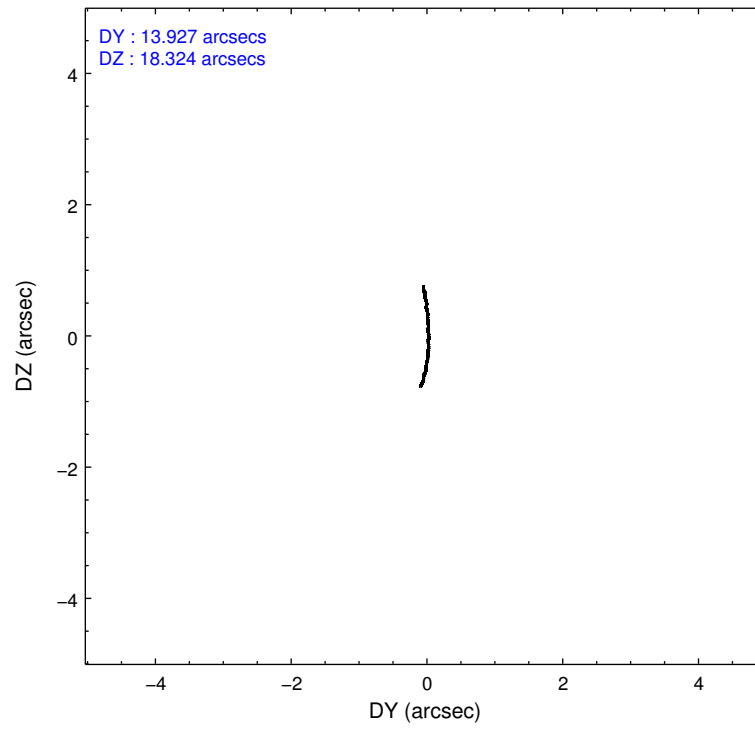
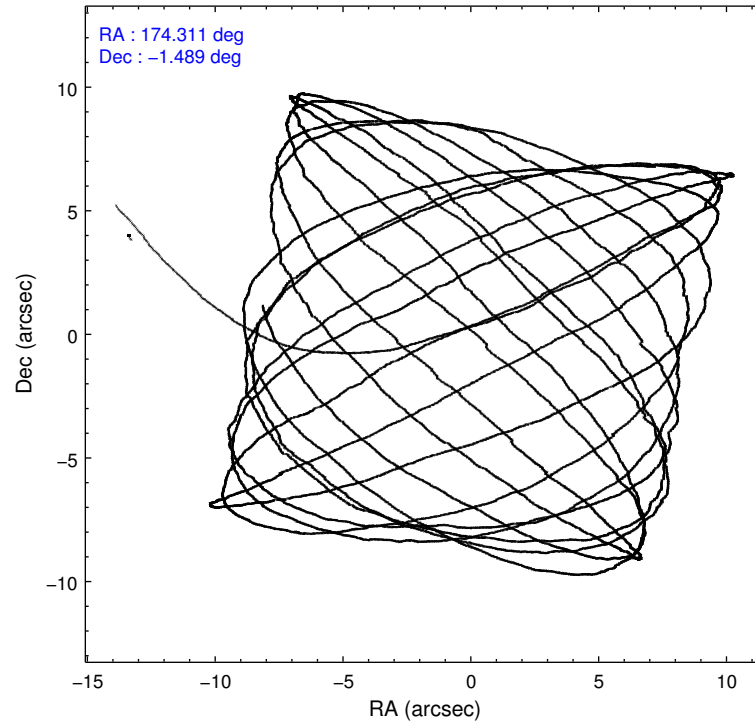
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	50828	48275	52238	50727	53350	70129	grade 0 events	1993	2651	1933	1925	1923	2698
rejected events	44781	41185	46416	45188	47366	39387		3%	5%	3%	3%	3%	3%
rejected %	88%	85%	88%	89%	88%	56%	grade 1 events	25	38	28	28	31	82
								0%	0%	0%	0%	0%	0%
							grade 2 events	1566	1652	1502	1254	1340	6362
								3%	3%	2%	2%	2%	9%
							grade 3 events	643	654	616	600	664	2587
								1%	1%	1%	1%	1%	3%
							grade 4 events	588	662	549	573	609	2506
								1%	1%	1%	1%	1%	3%
							grade 5 events	2510	2365	2212	2664	2764	7188
								4%	4%	4%	5%	5%	10%
							grade 6 events	1260	1476	1229	1193	1452	16601
								2%	3%	2%	2%	2%	23%
							grade 7 events	42243	38777	44169	42490	44567	32105
								83%	80%	84%	83%	83%	45%

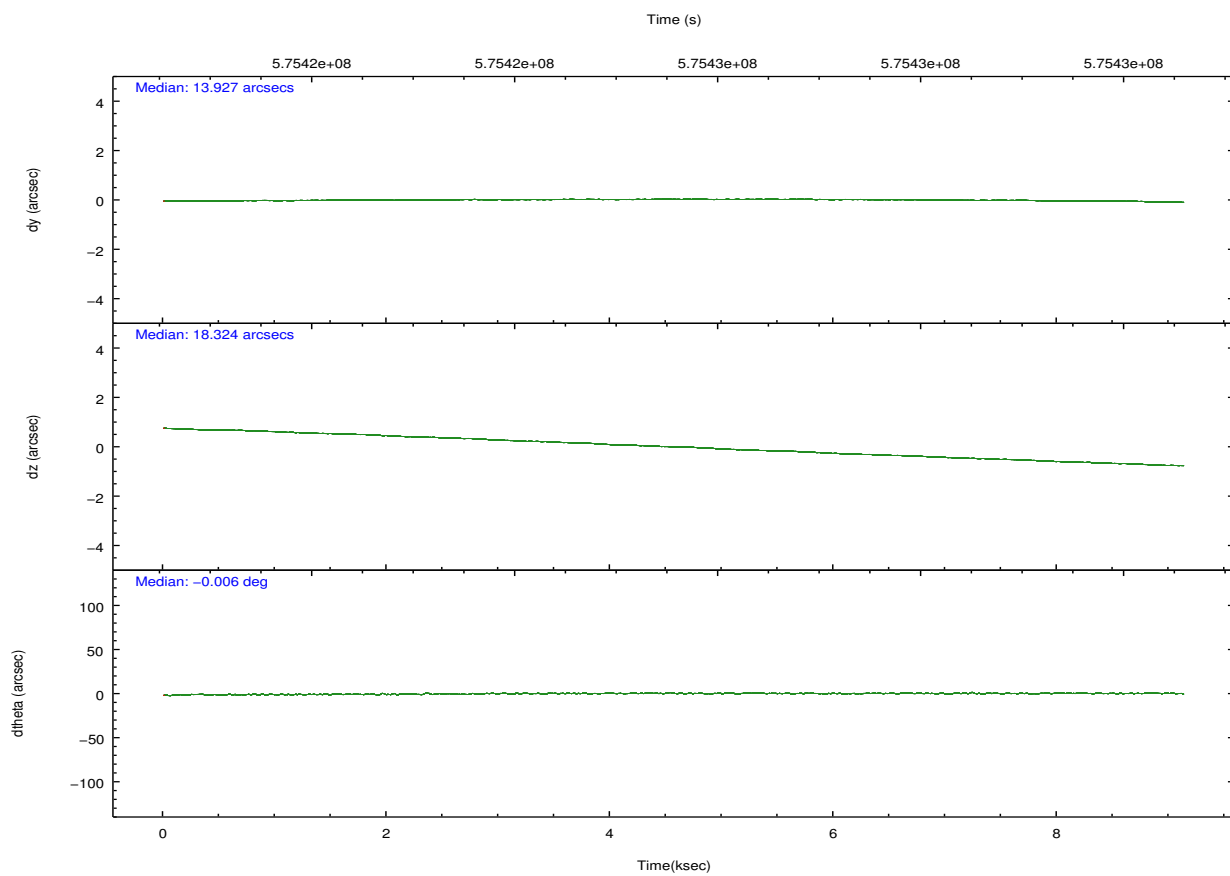
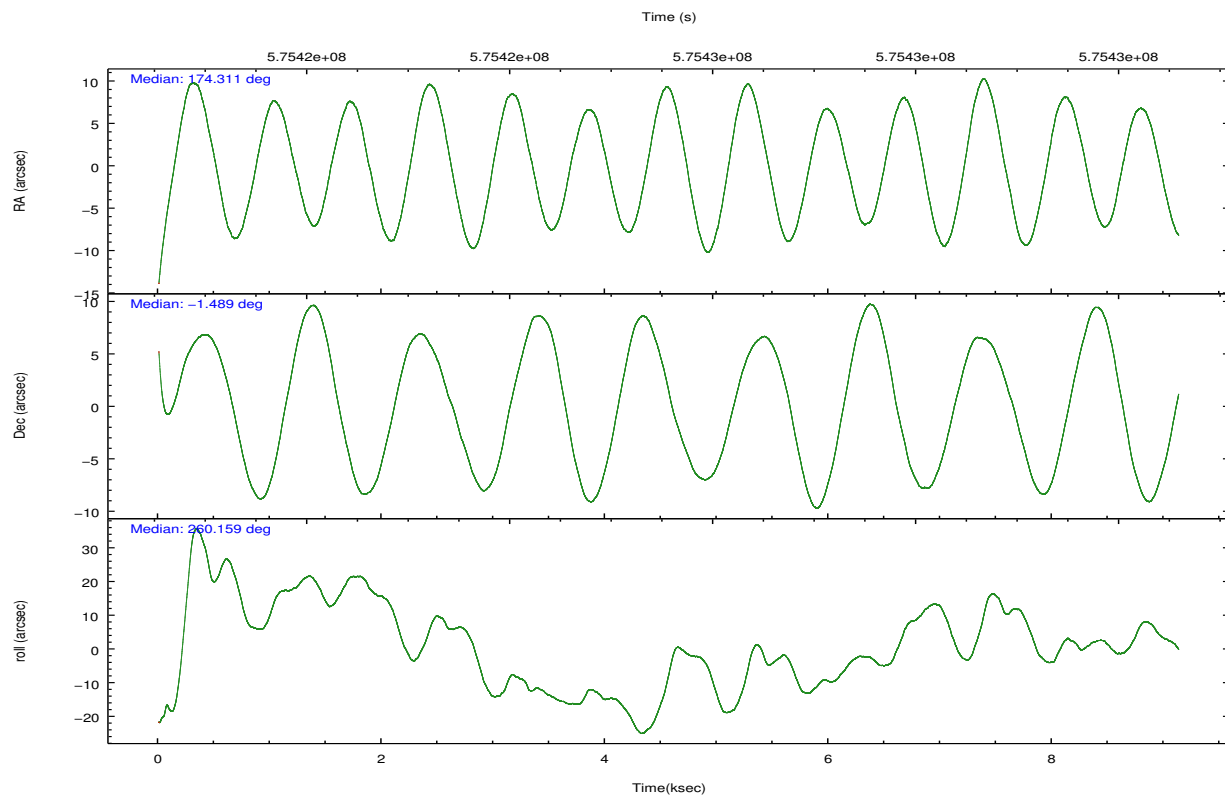
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	174.300939	174.3107611633019
[deg] Pointing Dec	-1.463411	-1.489053544281005
[deg] Pointing Roll	259.999811	260.1566927691529
[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)	575421134.184000	575419799.21052
Observation start date	2016-03-26T23:11:06	2016-03-26T22:49:59
[s] Observation end time (MET)	575430134.184000	575430992.2111599
Observation end date	2016-03-27T01:41:06	2016-03-27T01:56:32
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	O1	Y
CCD I1 on	O2	Y
CCD I2 on	O3	Y
CCD I3 on	O4	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O5	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
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	3.2

2.3 Aspect



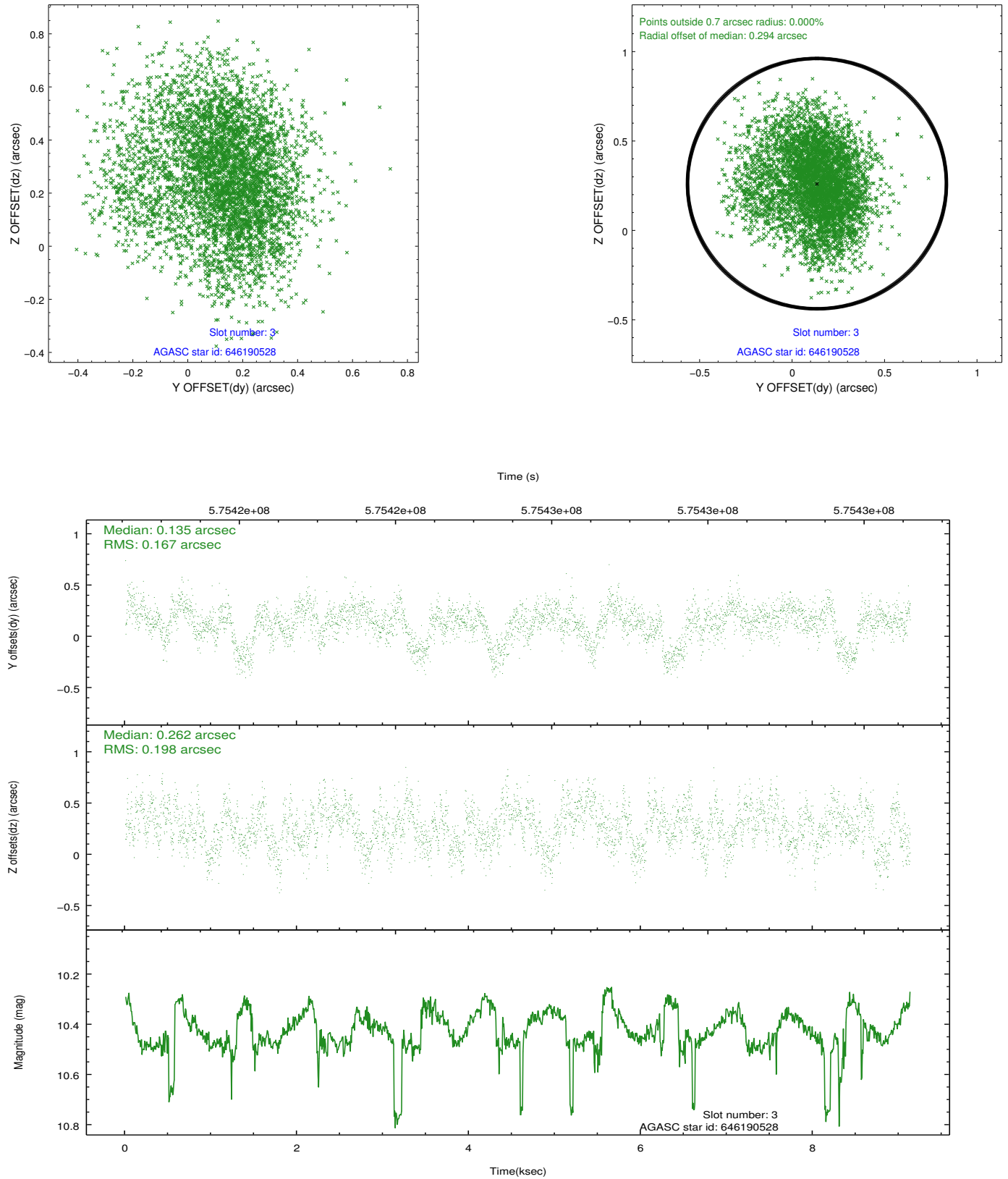


Slot Statistics

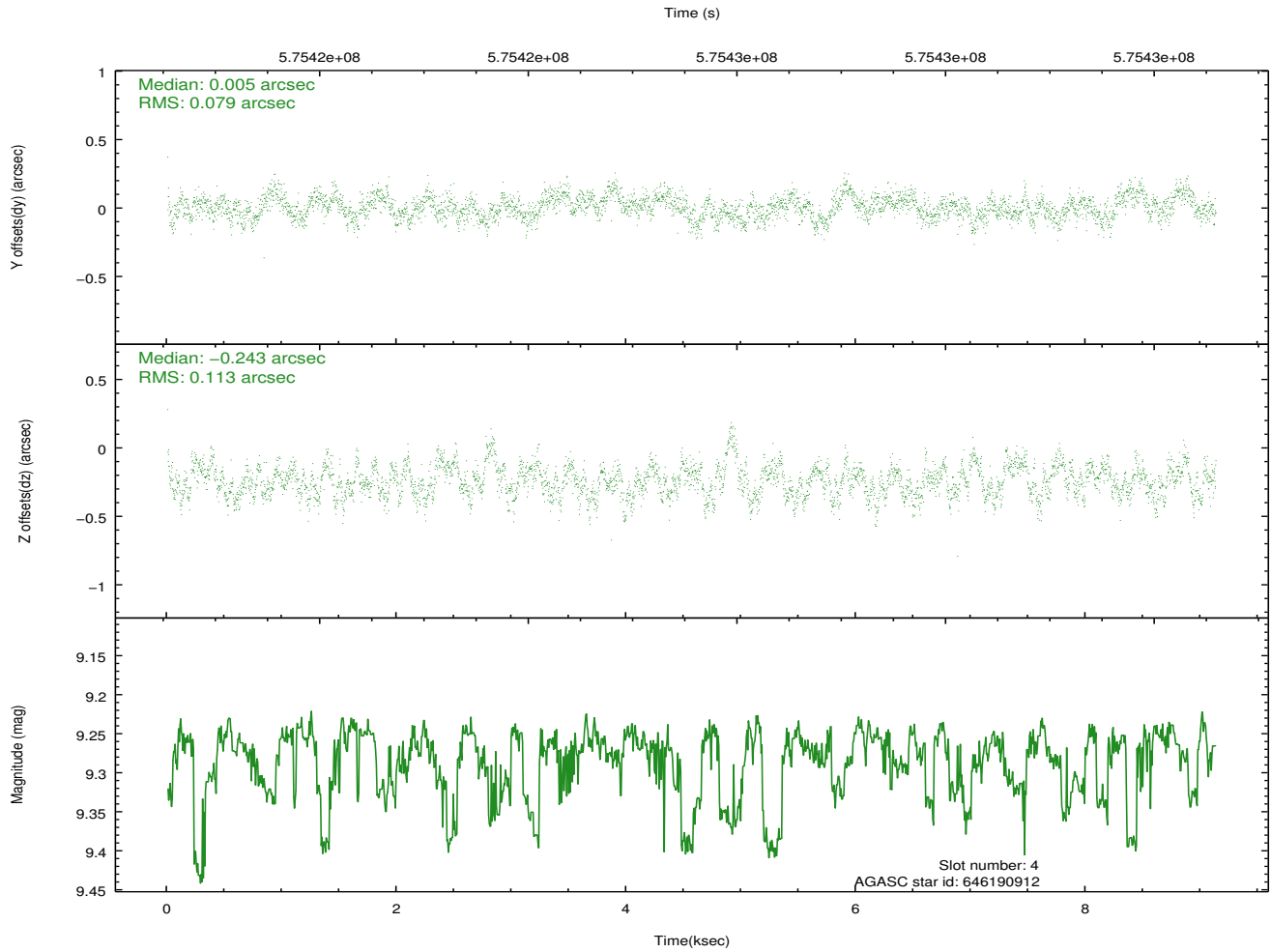
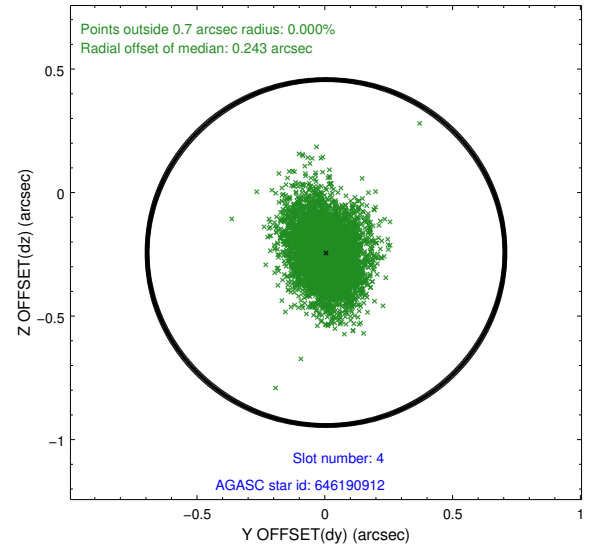
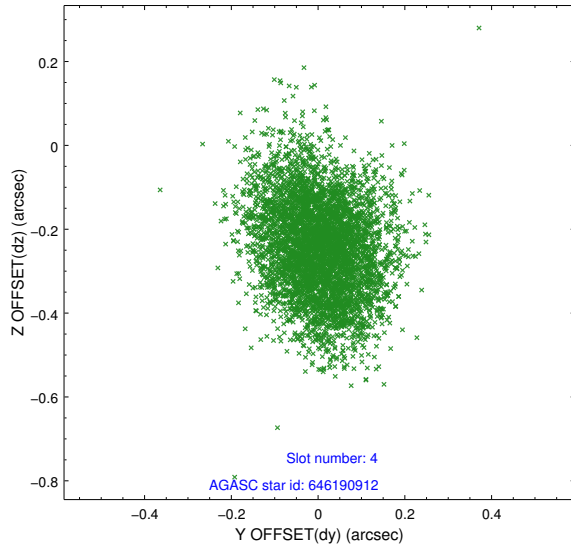
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.20	2227	0.070	-0.021	0.010	0.018	0.000000	0.000000	929.26	-1735.38
1	FID		ACIS-S-4	7.21	2226	0.302	-0.014	0.008	0.013	0.000000	0.000000	2147.21	168.18
2	FID		ACIS-S-5	7.23	2227	-0.400	0.047	0.008	0.015	0.000000	0.000000	-1819.34	162.46
3	GUIDE	used	646190528	10.43	4438	0.135	0.262	0.280	0.443	173.866035	-1.242260	-511.45	-1679.21
4	GUIDE	used	646190912	9.28	4447	0.005	-0.243	0.145	0.237	173.906681	-1.575883	645.68	-1327.68
5	GUIDE	used	646192600	10.14	4447	-0.054	-0.193	0.241	0.380	174.489014	-1.041720	-1611.91	401.24
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	646190288	9.57	4447	-0.062	0.179	0.161	0.253	174.319821	-1.082555	-1359.65	-172.29

2.4 Star Slots

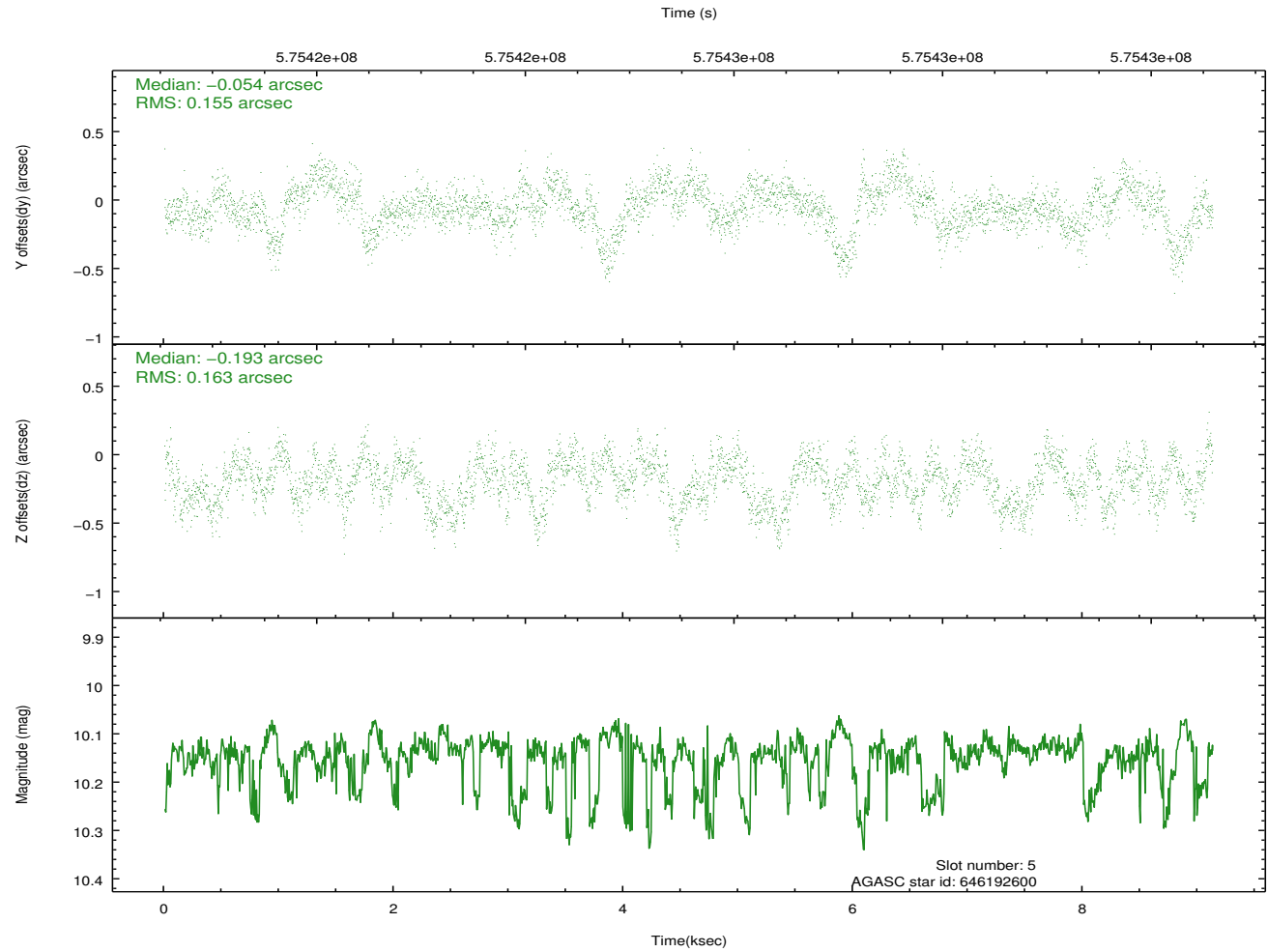
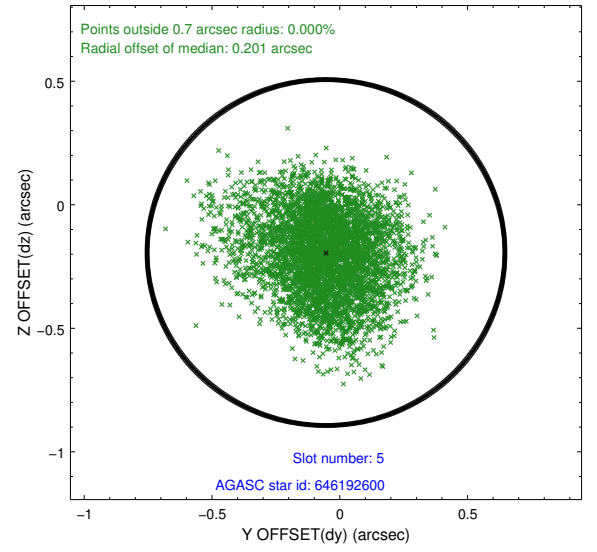
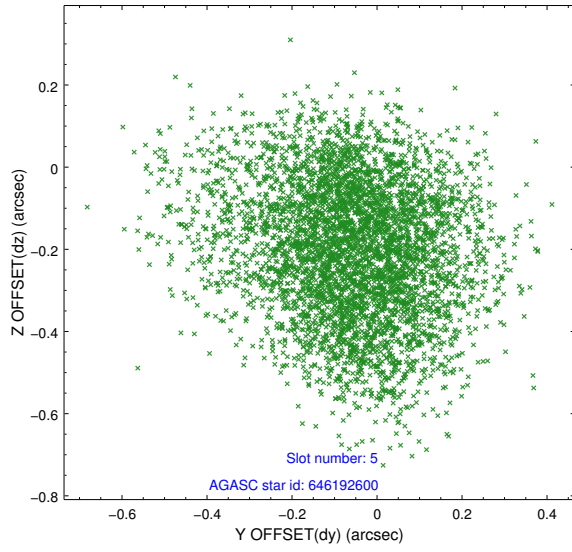
2.4.1 Slot 3



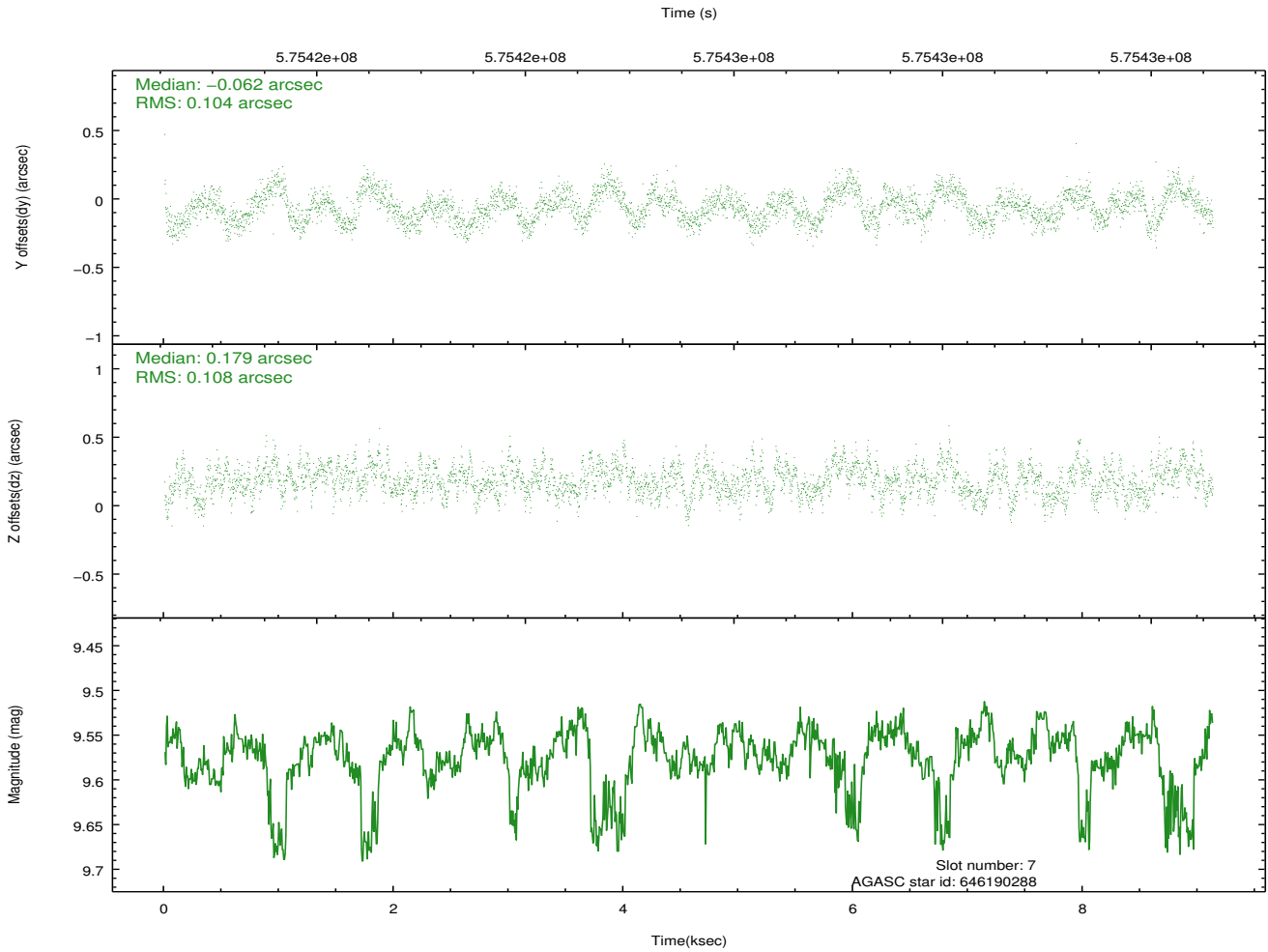
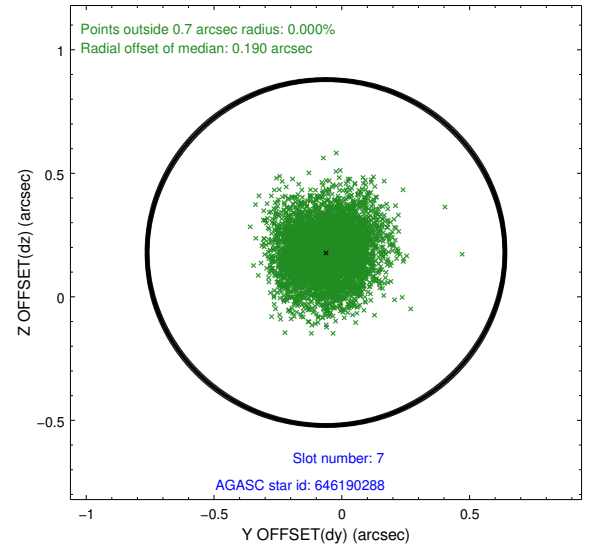
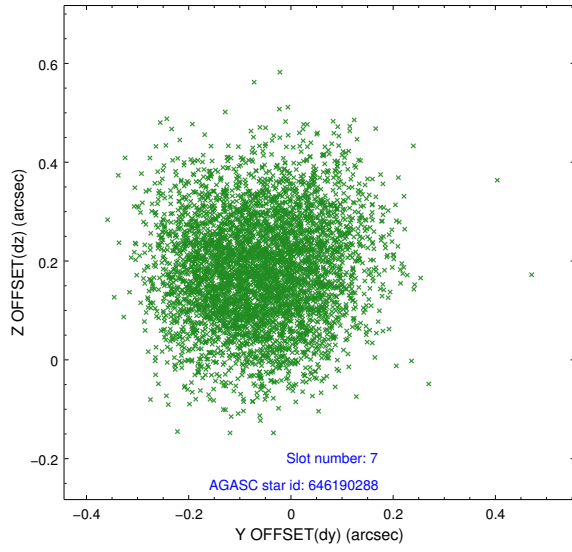
2.4.2 Slot 4



2.4.3 Slot 5

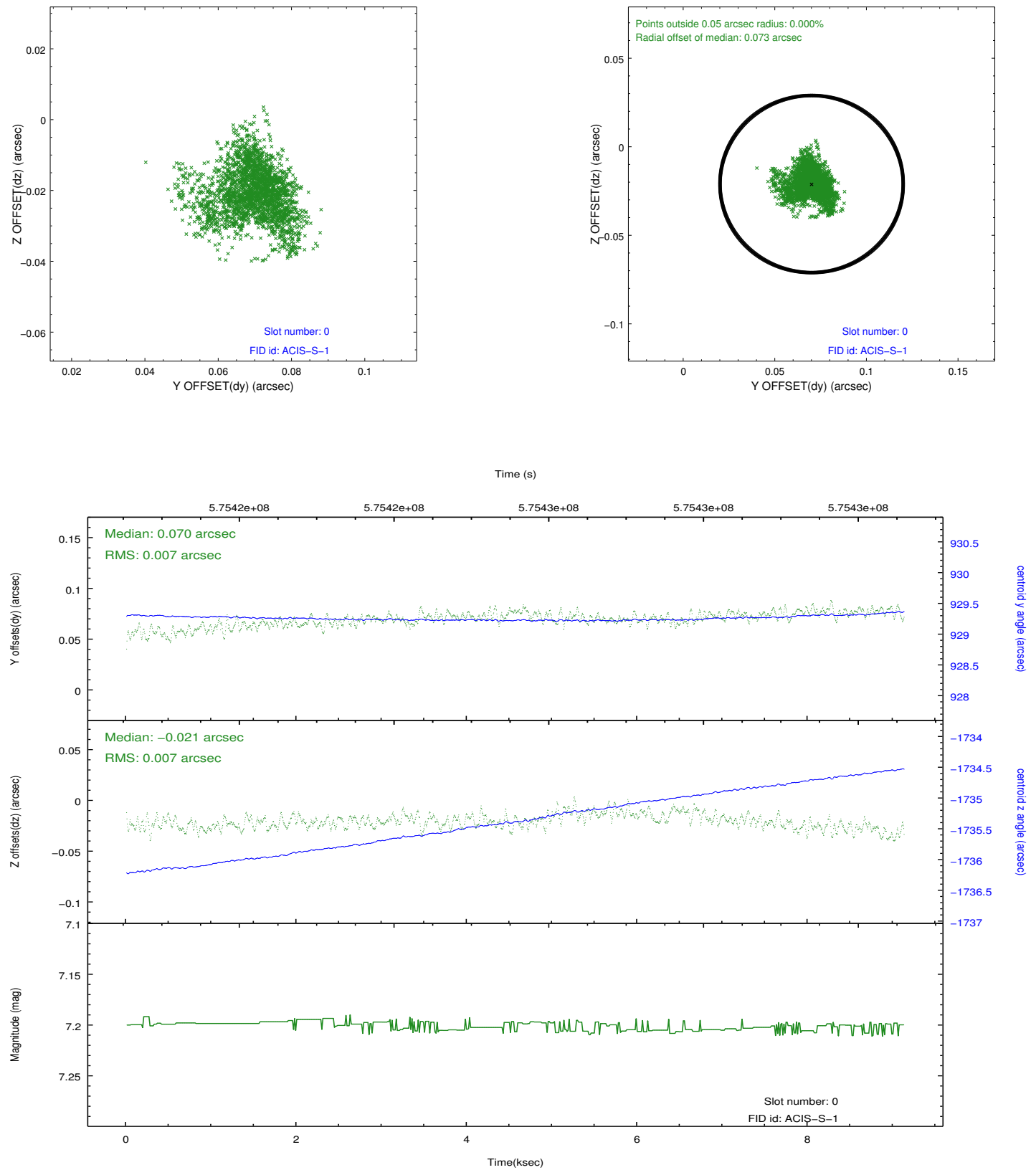


2.4.4 Slot 7

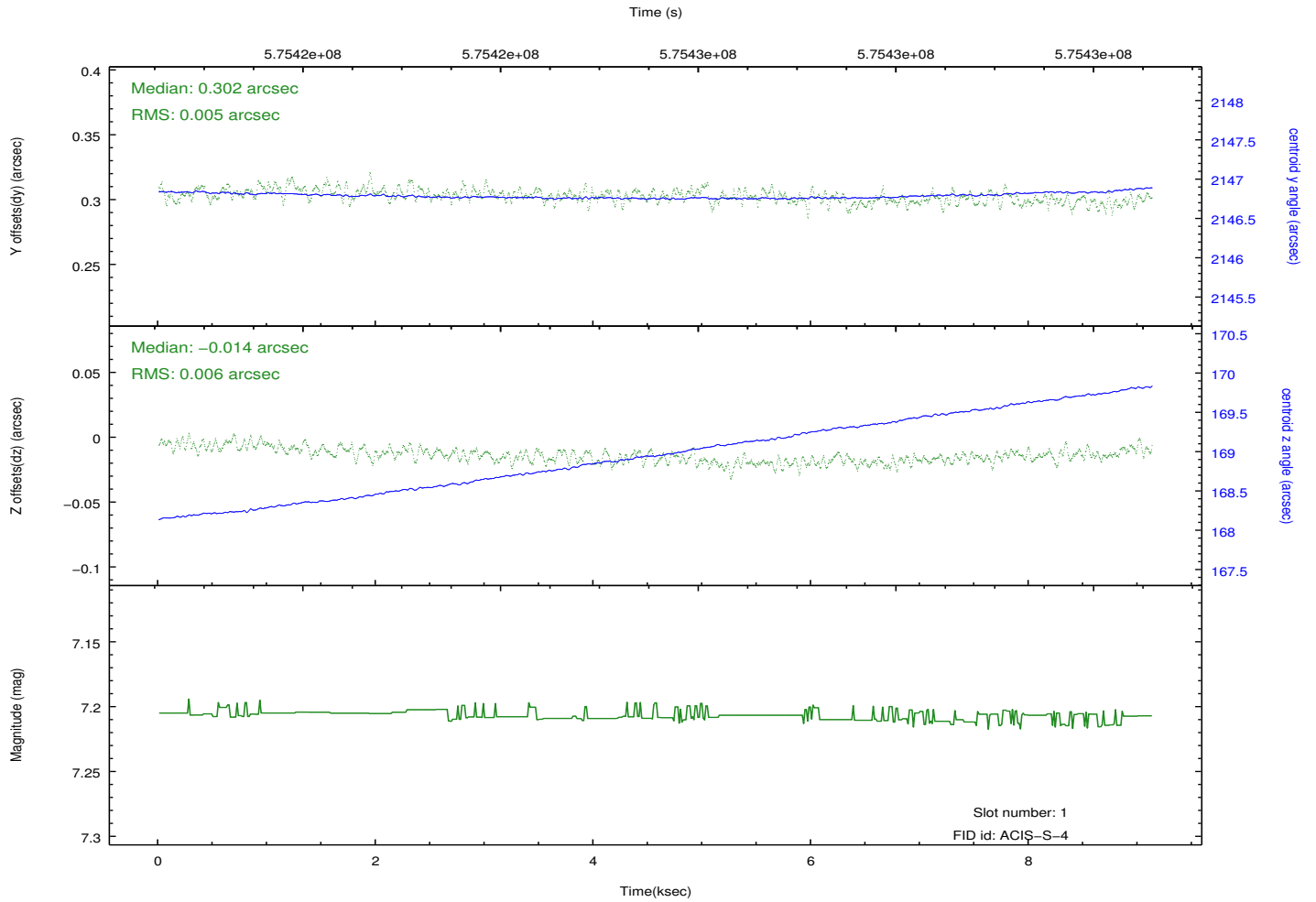
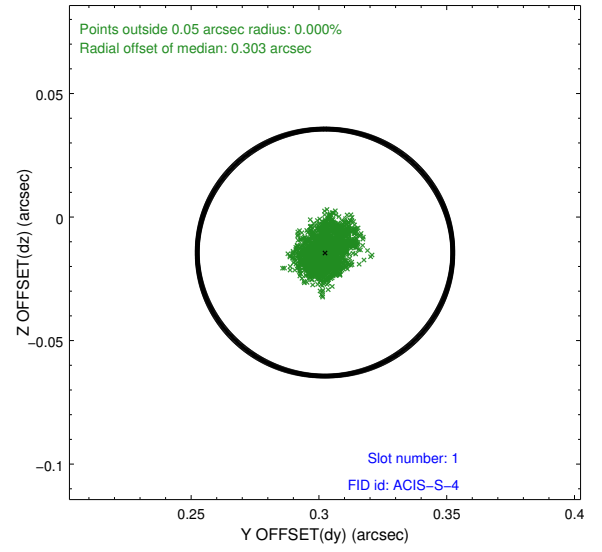
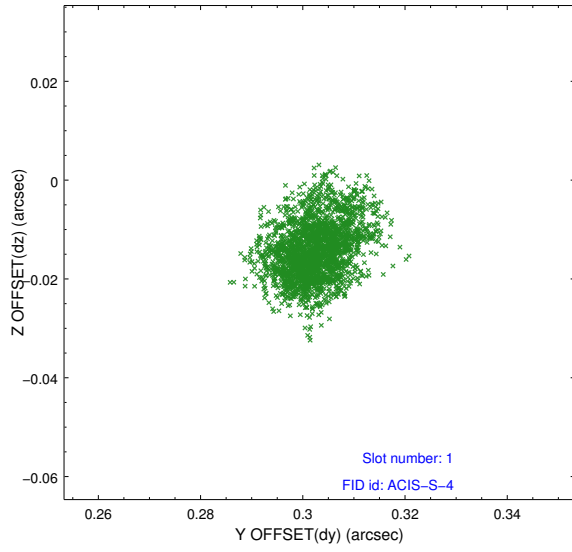


2.5 FID Slots

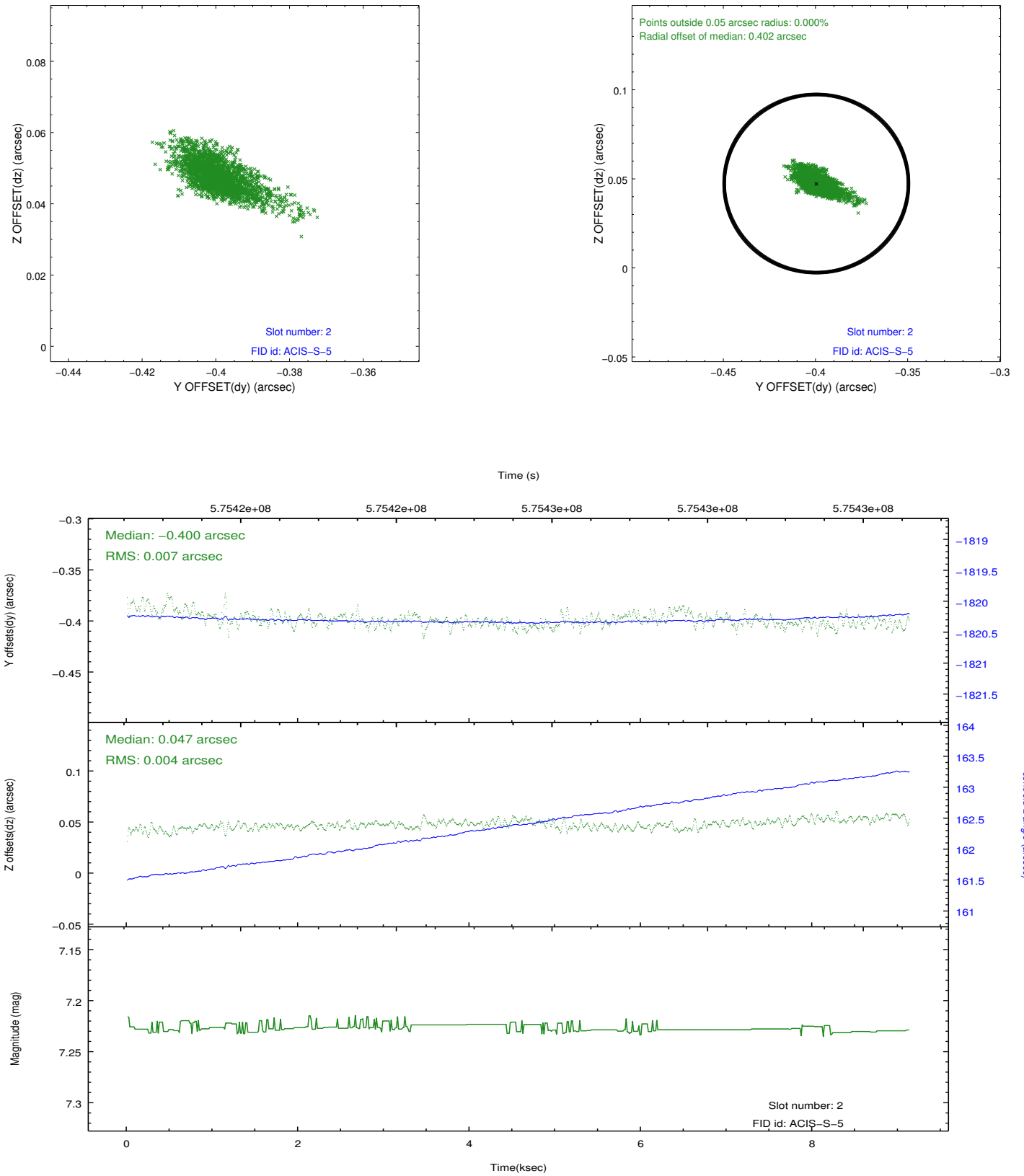
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.9650806254148

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.