

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8126 - L2 Version 2
Chandra X-Ray Center

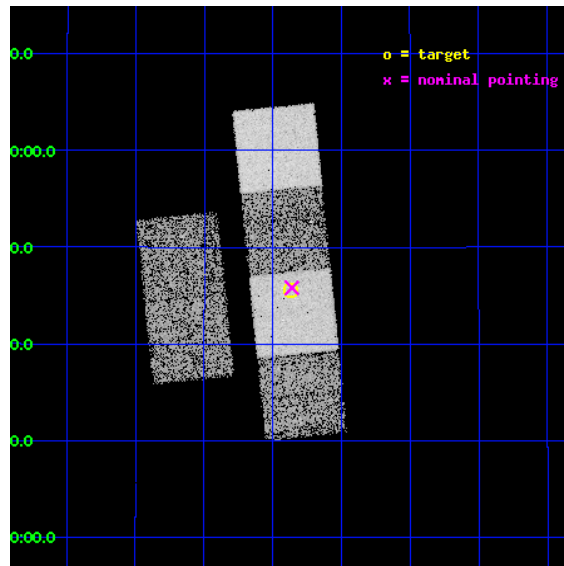
L2 Processing Date : May 9 2012

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1 Front

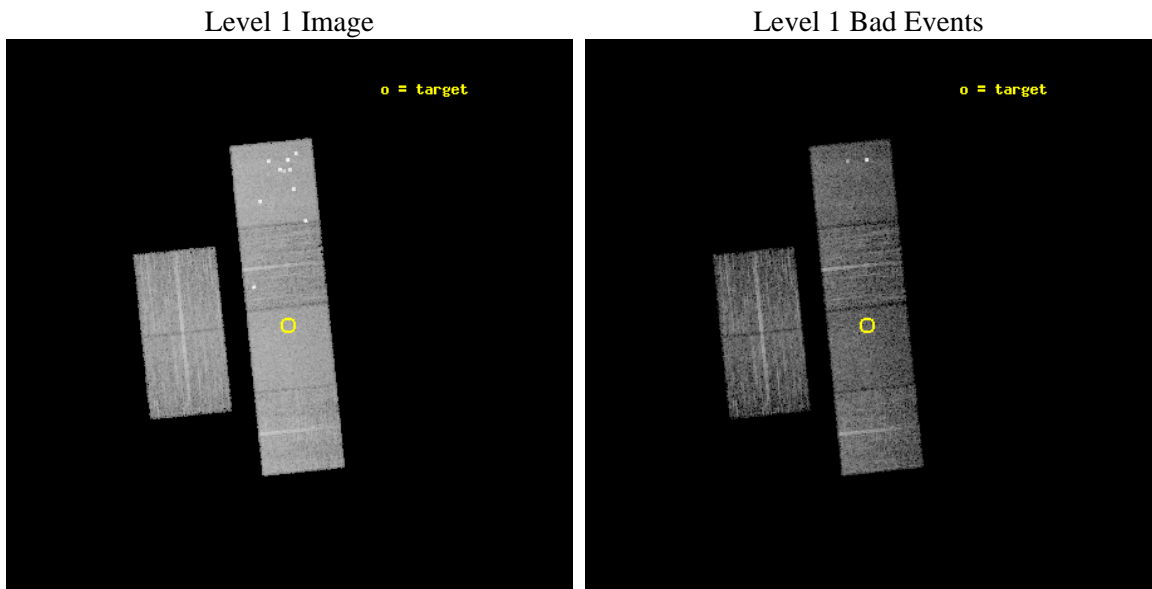
seq_num	900667	Sequence number
obs_id	8126	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1321	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.7175	Observer's specified target RA [deg]
dec_targ	16.759056	Observer's specified target Dec [deg]
ra_nom	187.71528091748	Nominal RA [deg]
dec_nom	16.763526069157	Nominal Dec [deg]
roll_nom	84.162565222258	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
lvertime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5155.158950448	Sum of GTIs [s]
l2events	82939	Number of level 2 events



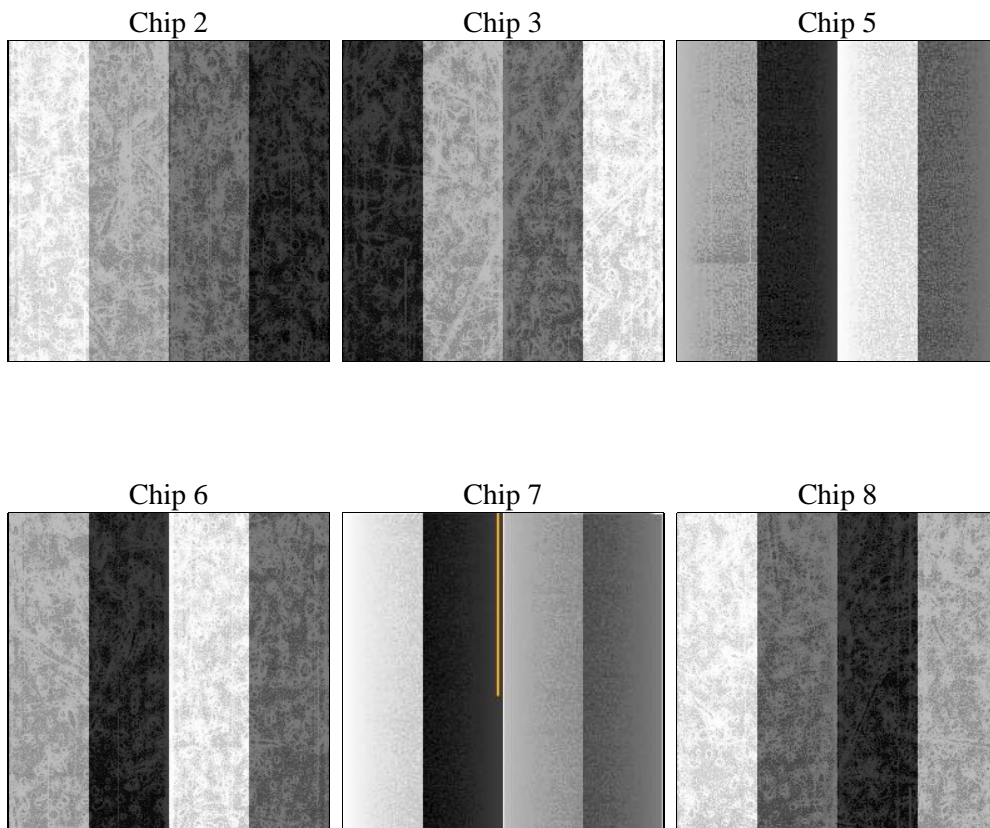
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.394000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.3999808431	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-09T03:01:51	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5155.158950448	Sum of GTIs [s]
			l1events	378490	Number of level 1 events

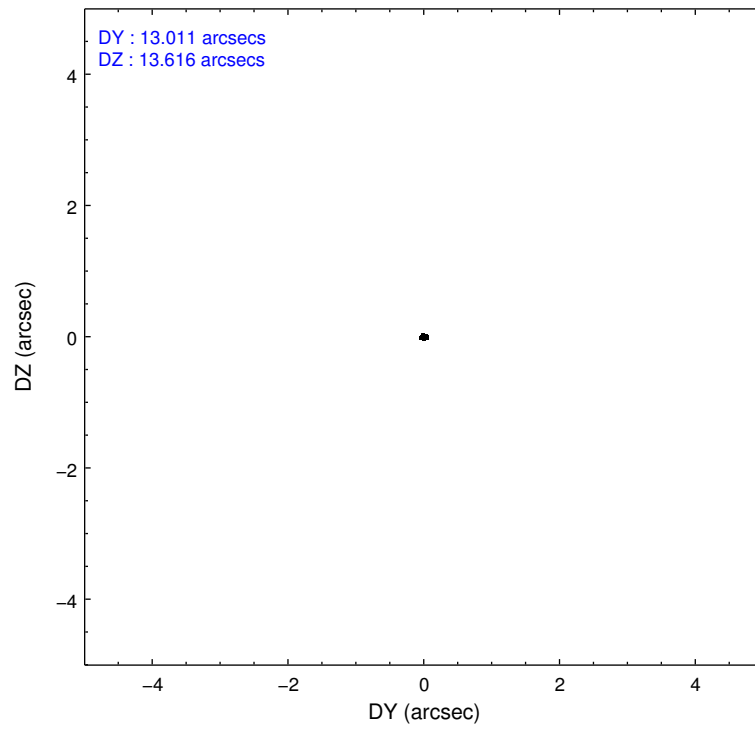
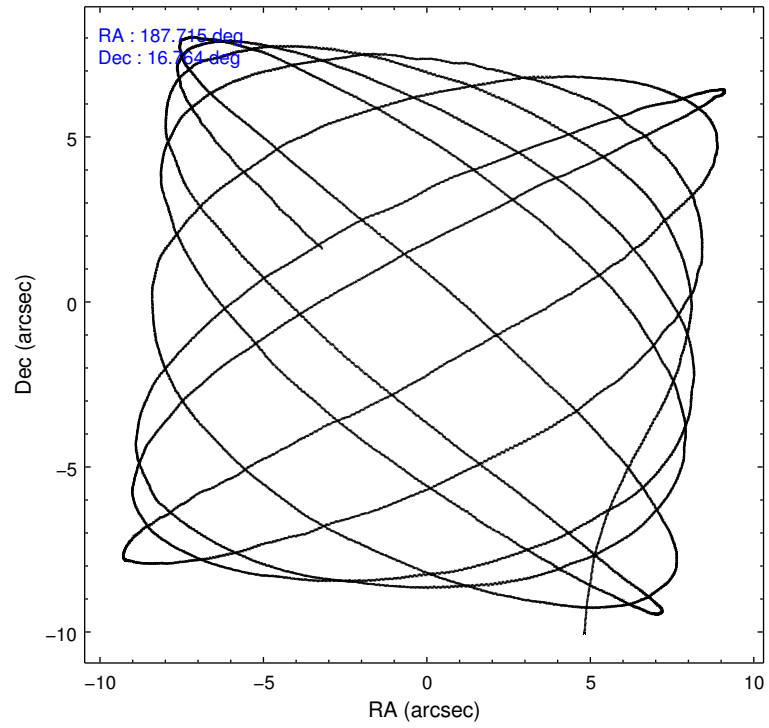
2.1.4 Events

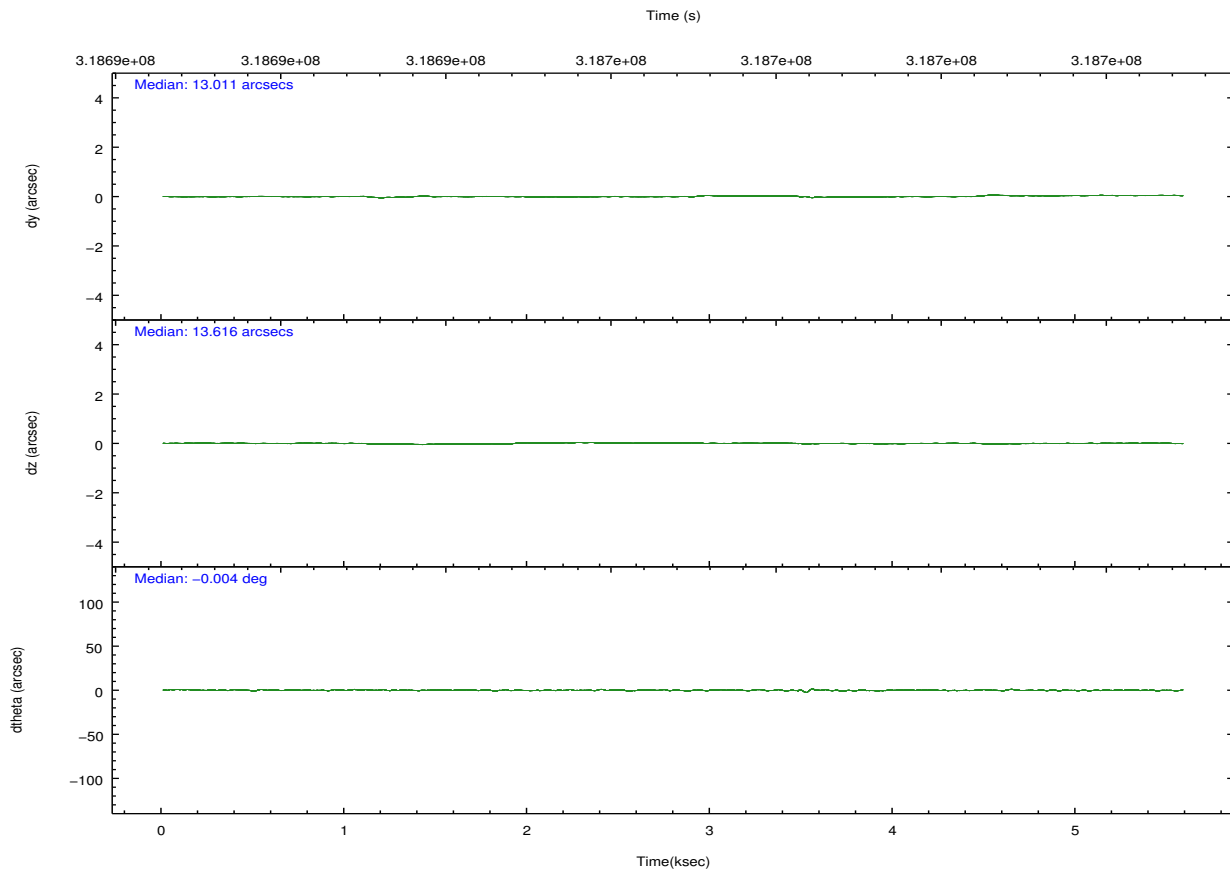
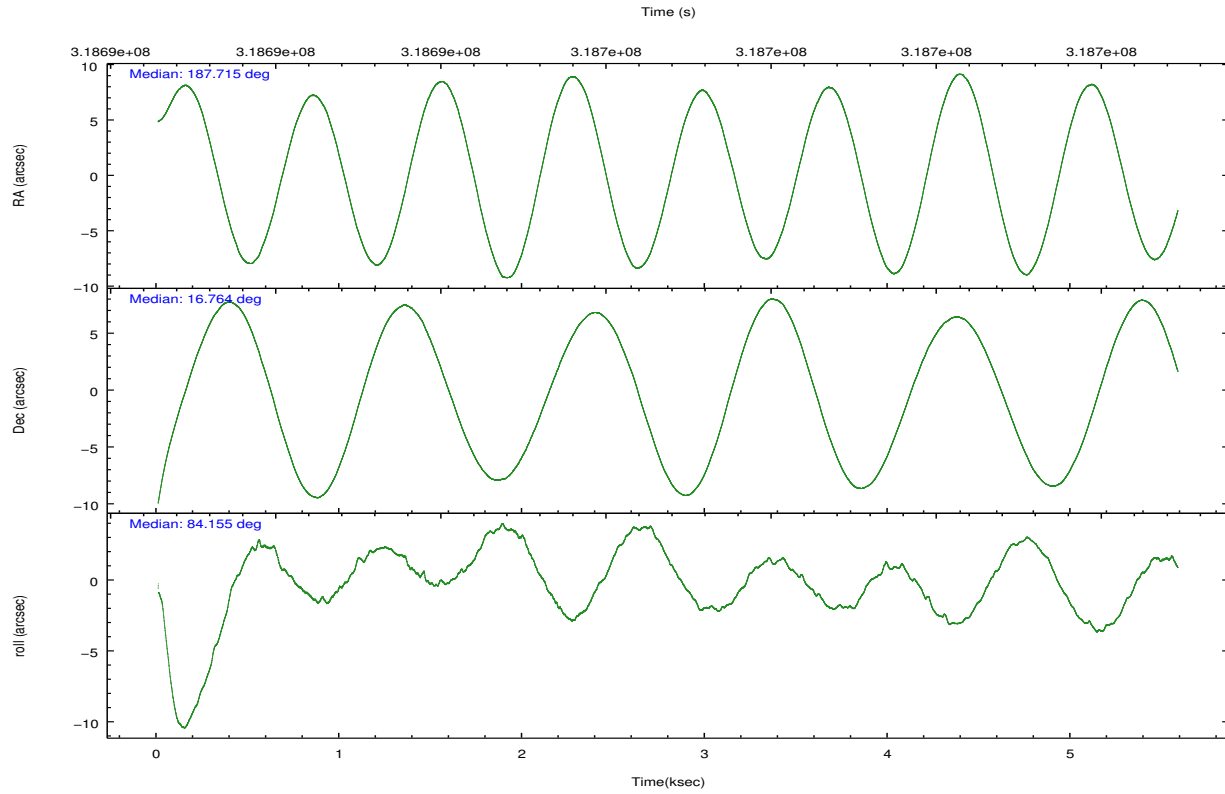
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52550	49651	88756	52247	68643	66643	grade 0 events	2476	2616	9660	2398	2302	4467
rejected events	46712	43659	44017	44473	40138	52716		4%	5%	10%	4%	3%	6%
rejected %	88%	87%	49%	85%	58%	79%	grade 1 events	32	25	131	14	65	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1247	1222	11885	1494	5880	3211
								2%	2%	13%	2%	8%	4%
							grade 3 events	547	551	1250	2008	2296	1444
								1%	1%	1%	3%	3%	2%
							grade 4 events	574	535	1027	563	2372	1286
								1%	1%	1%	1%	3%	1%
							grade 5 events	1955	2248	5036	2361	6252	3023
								3%	4%	5%	4%	9%	4%
							grade 6 events	1000	1073	20941	1315	15666	3524
								1%	2%	23%	2%	22%	5%
							grade 7 events	44719	41381	38826	42094	33810	49635
								85%	83%	43%	80%	49%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	187.727339	187.7152809174771	CCD I2 on	O1	Y
[deg] Pointing Dec	16.738632	16.76352606915672	CCD I3 on	O2	Y
[deg] Pointing Roll	84.002449	84.16256522225764	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	318692767.184000	318691770.831	CCD S5 on	N	N
Observation start date	2008-02-06T13:45:02	2008-02-06T13:29:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	318698168.184000	318698389.76882	On-chip summing requested	N	N
Observation end date	2008-02-06T15:15:03	2008-02-06T15:19:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



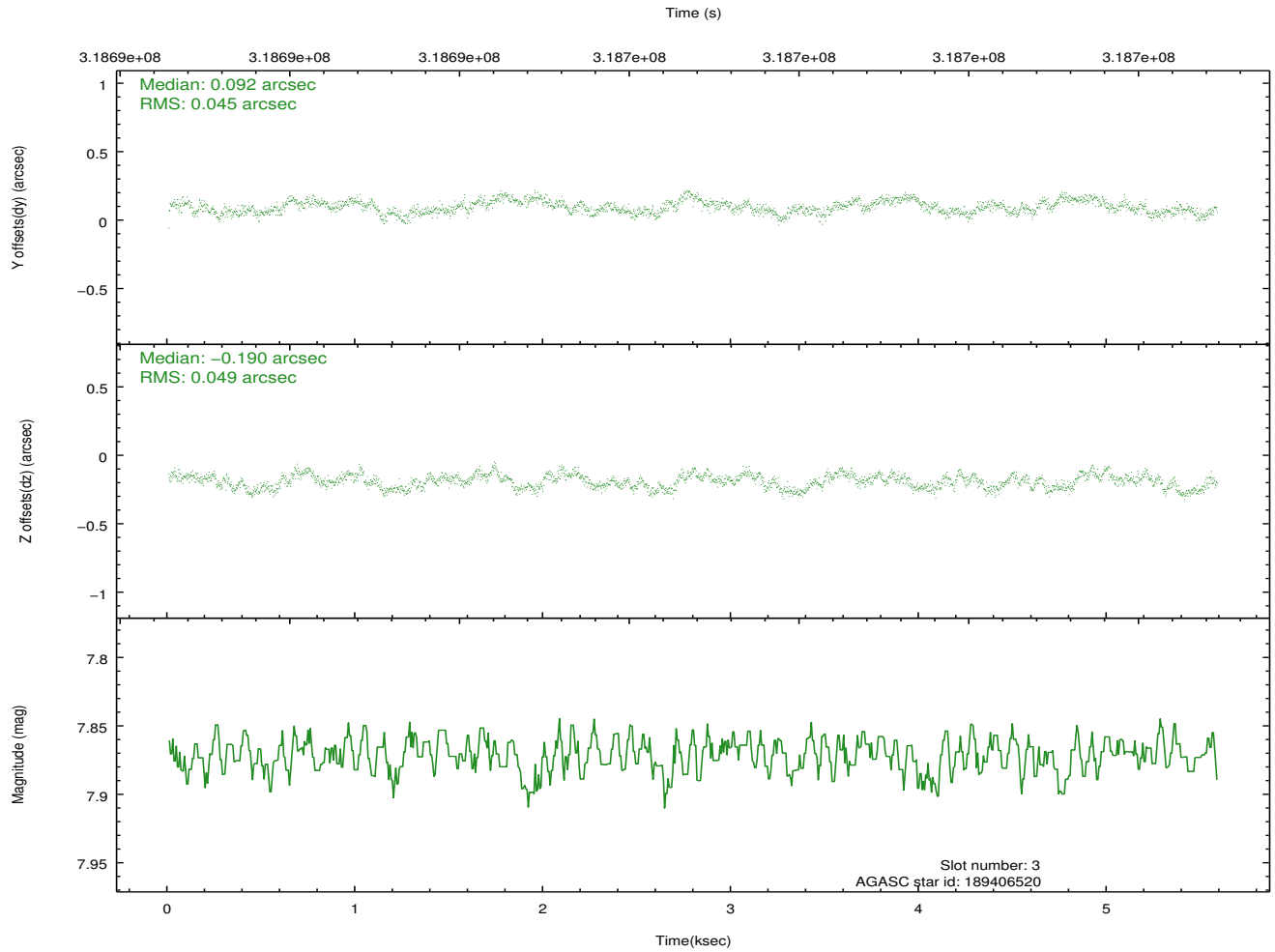
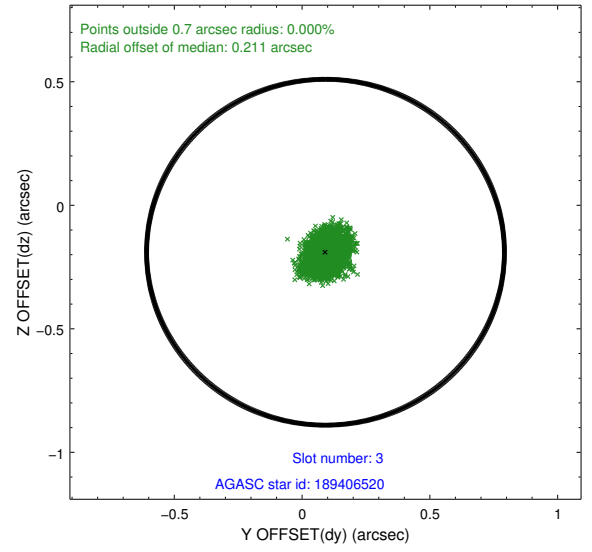
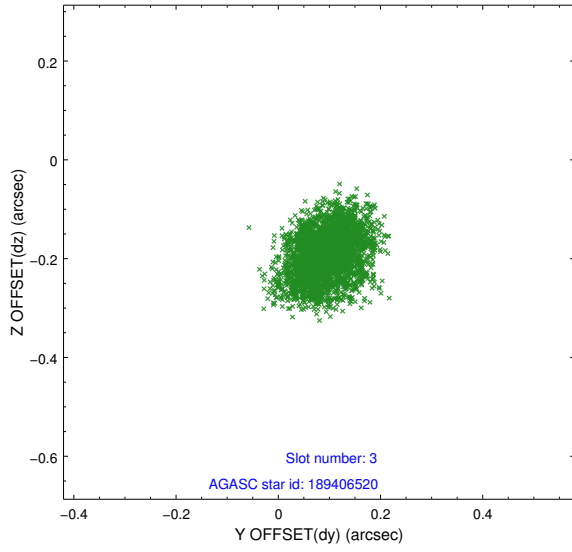


Slot Statistics

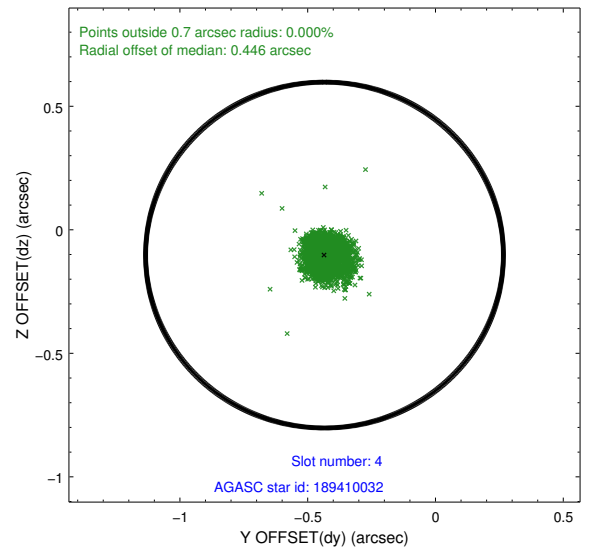
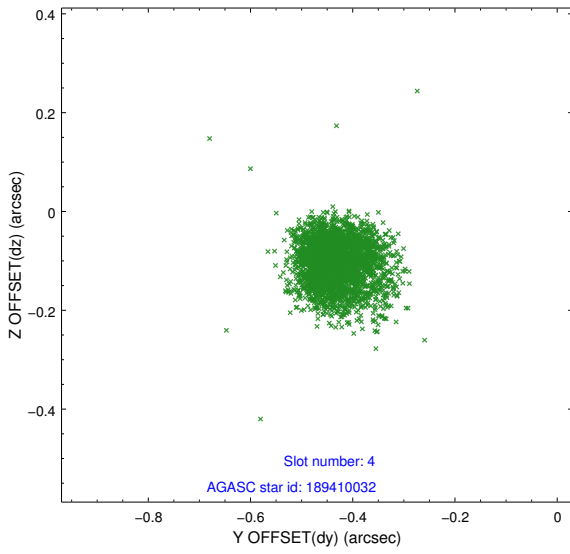
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1361	-0.035	-0.069	0.007	0.011	0.000000	0.000000	-765.97	-1734.98
1	FID	ACIS-S-4	7.20	1361	0.163	0.036	0.005	0.010	0.000000	0.000000	2147.02	172.50
2	FID	ACIS-S-5	7.24	1361	-0.159	0.042	0.006	0.011	0.000000	0.000000	-1817.56	167.40
3	GUIDE	189406520	7.87	2721	0.092	-0.190	0.072	0.110	187.149770	16.768407	-99.08	1991.06
4	GUIDE	189410032	8.09	2723	-0.434	-0.102	0.069	0.110	187.335255	17.321917	1947.93	1560.49
5	GUIDE	189412448	7.32	2723	0.111	0.270	0.058	0.096	187.776697	16.614118	-427.73	-215.56
6	GUIDE	189537728	9.32	2723	0.185	0.268	0.107	0.166	188.083246	16.538135	-588.53	-1296.84
7	GUIDE	189409968	8.84	2720	0.038	-0.244	0.079	0.127	187.066697	17.045450	863.62	2376.68

2.4 Star Slots

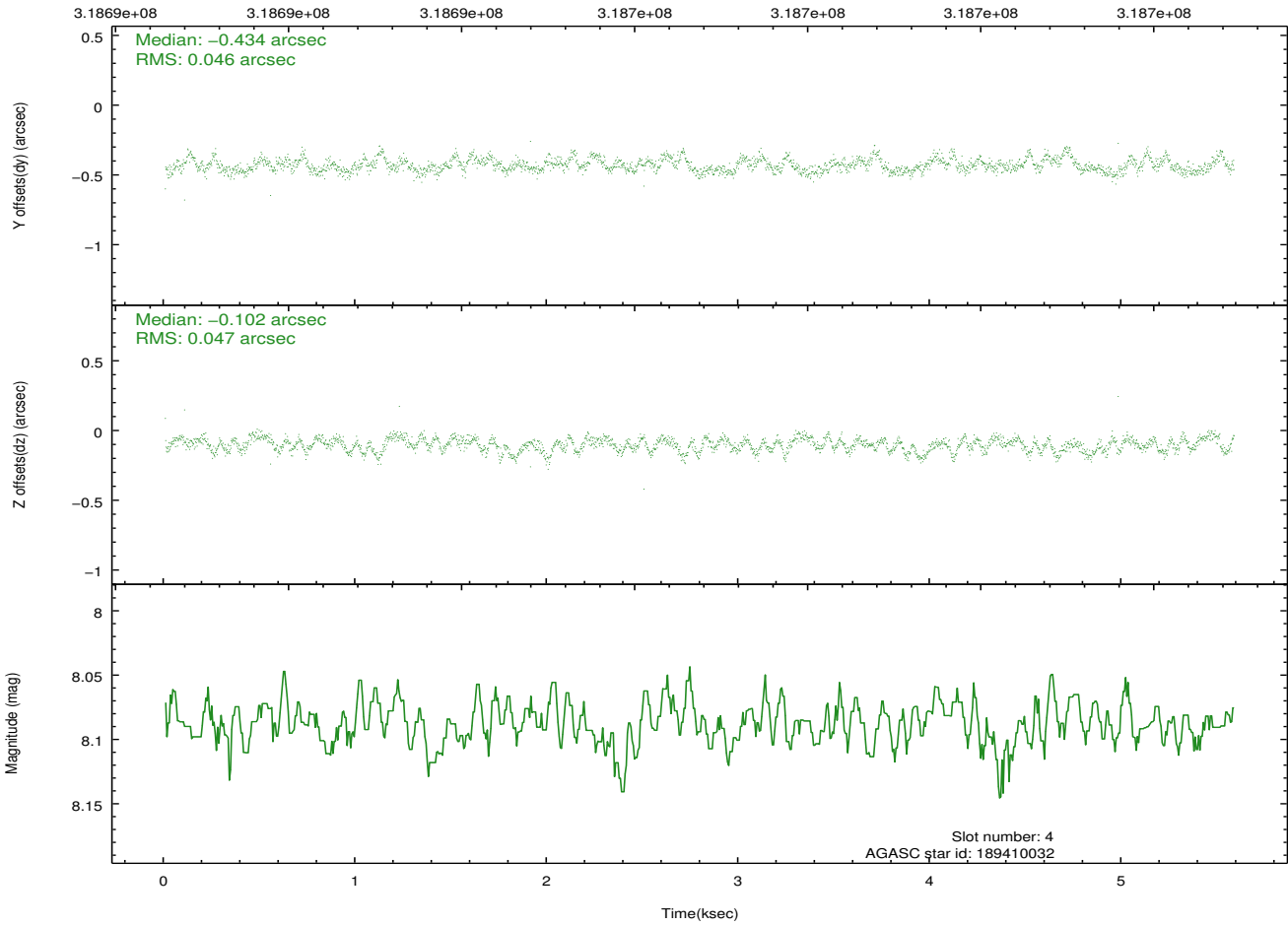
2.4.1 Slot 3



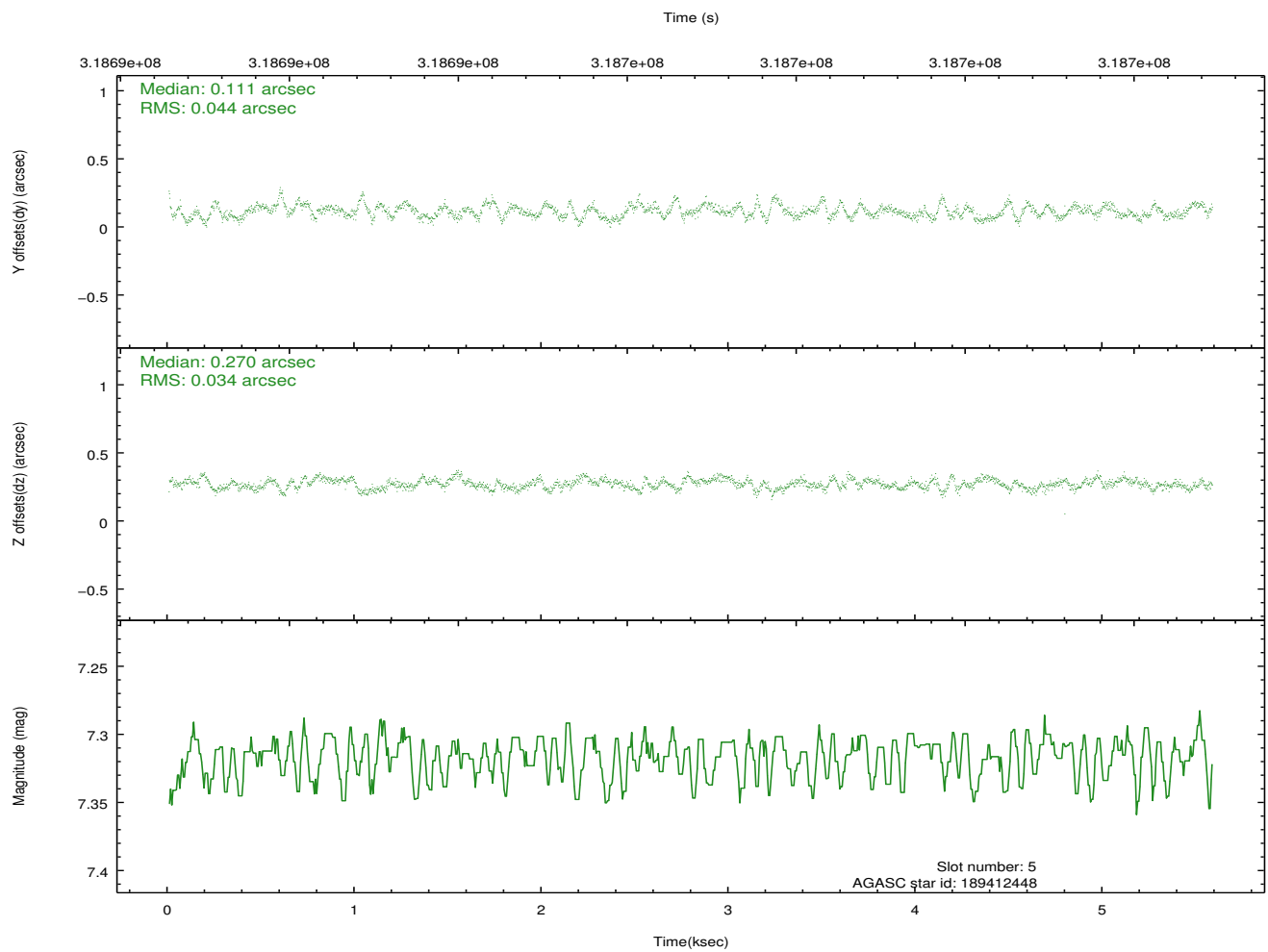
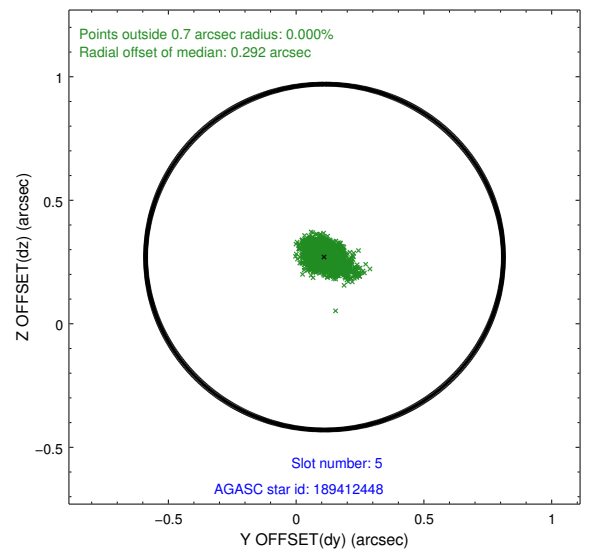
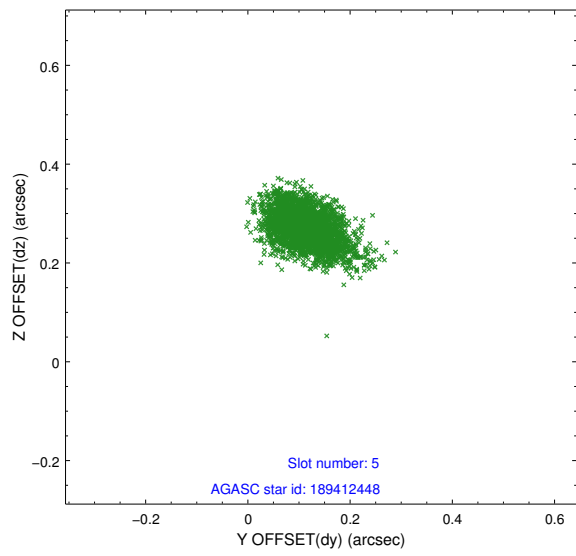
2.4.2 Slot 4



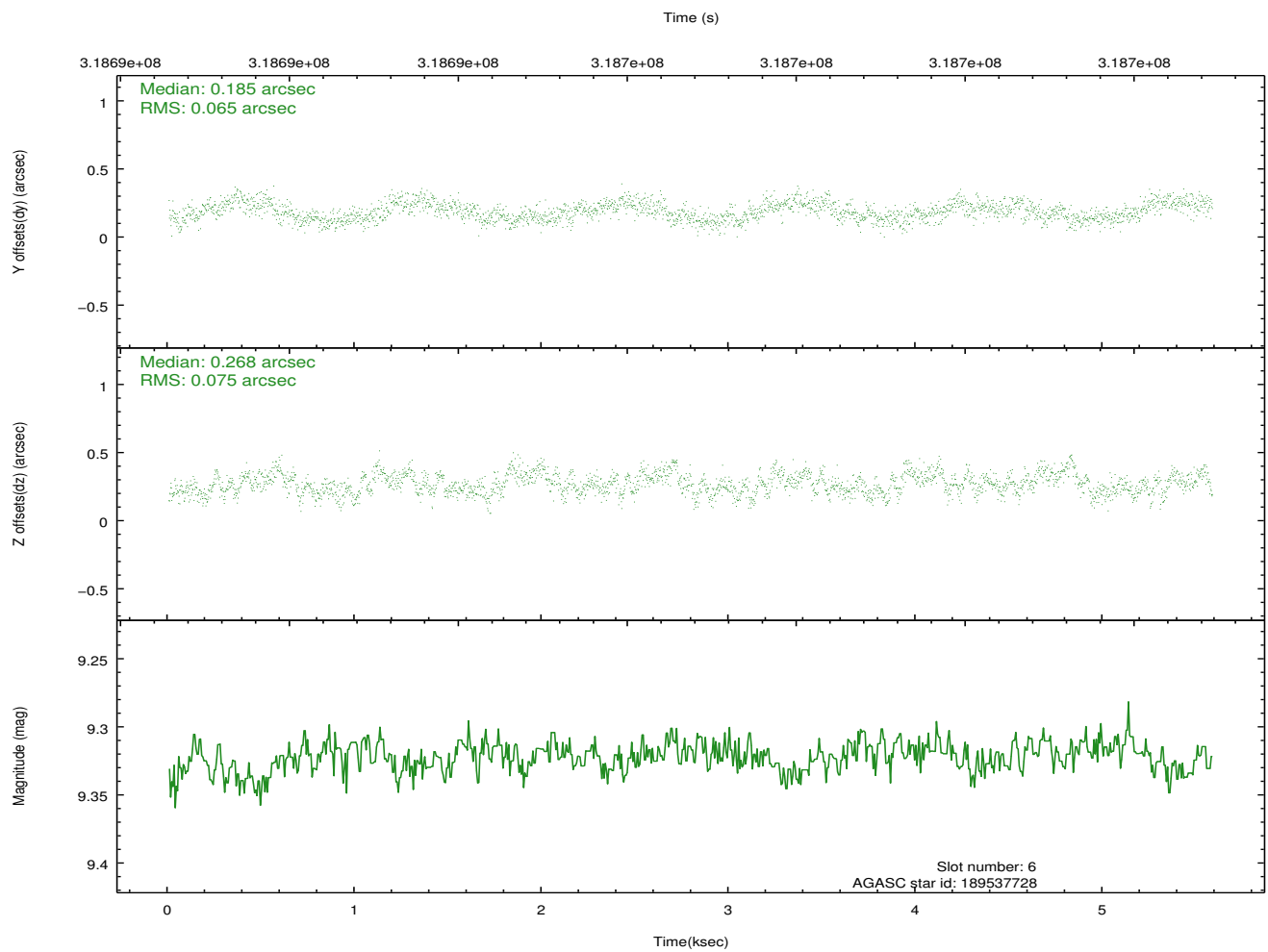
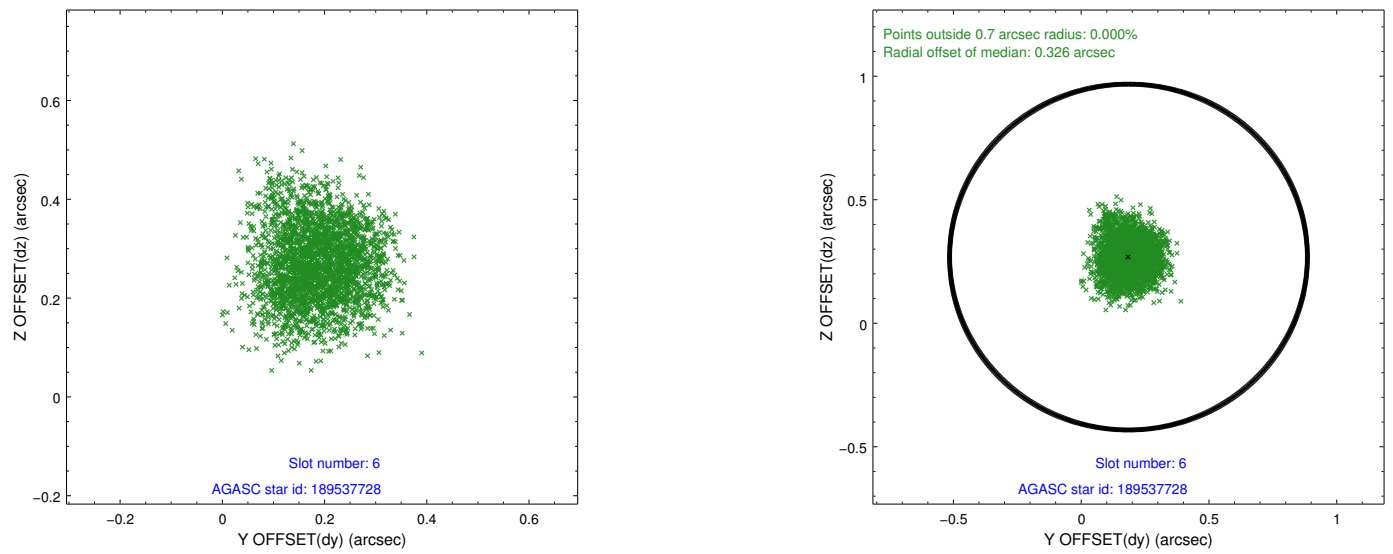
Time (s)



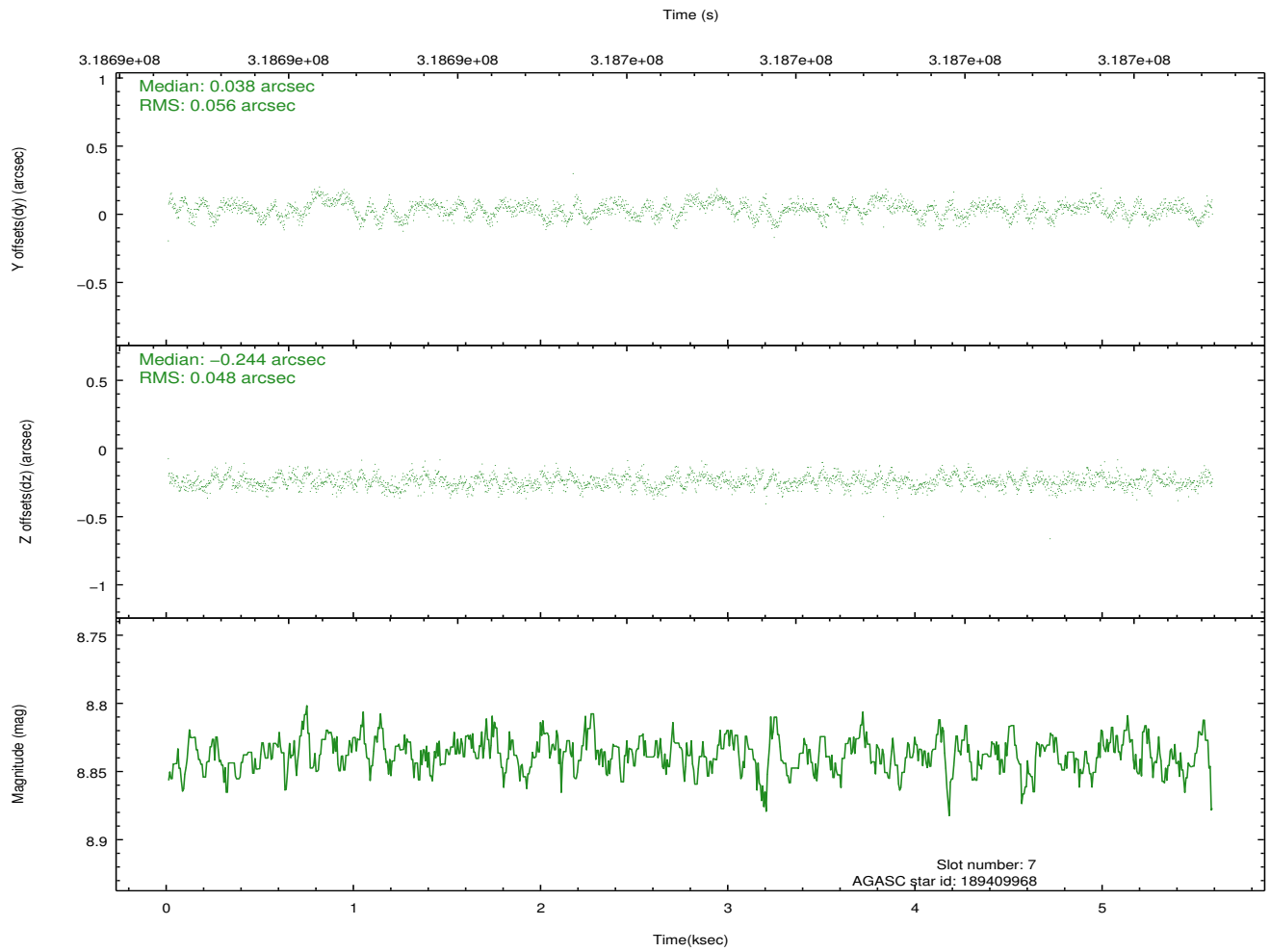
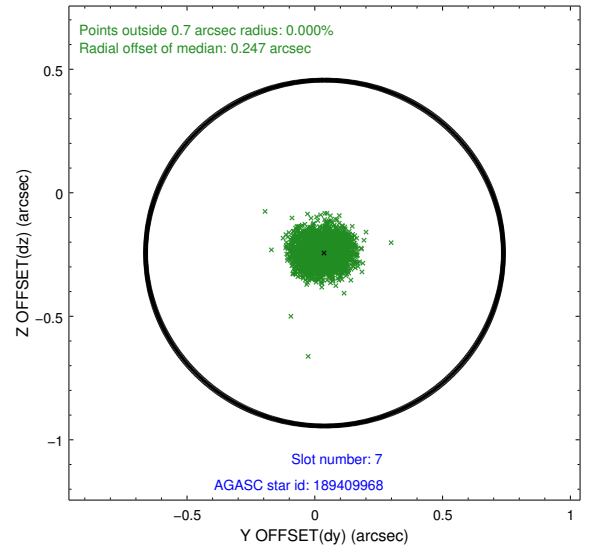
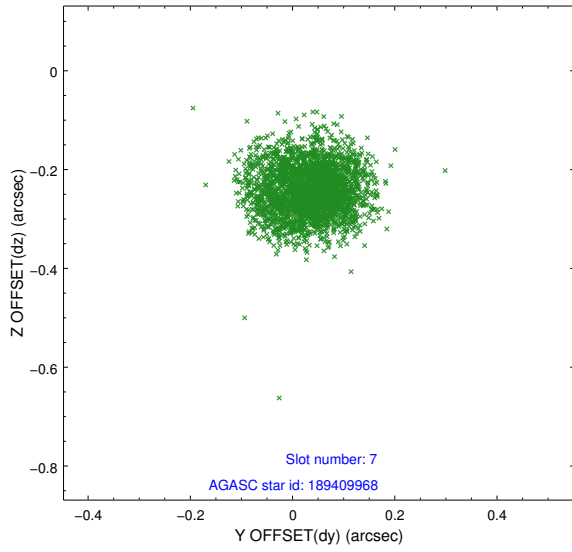
2.4.3 Slot 5



2.4.4 Slot 6

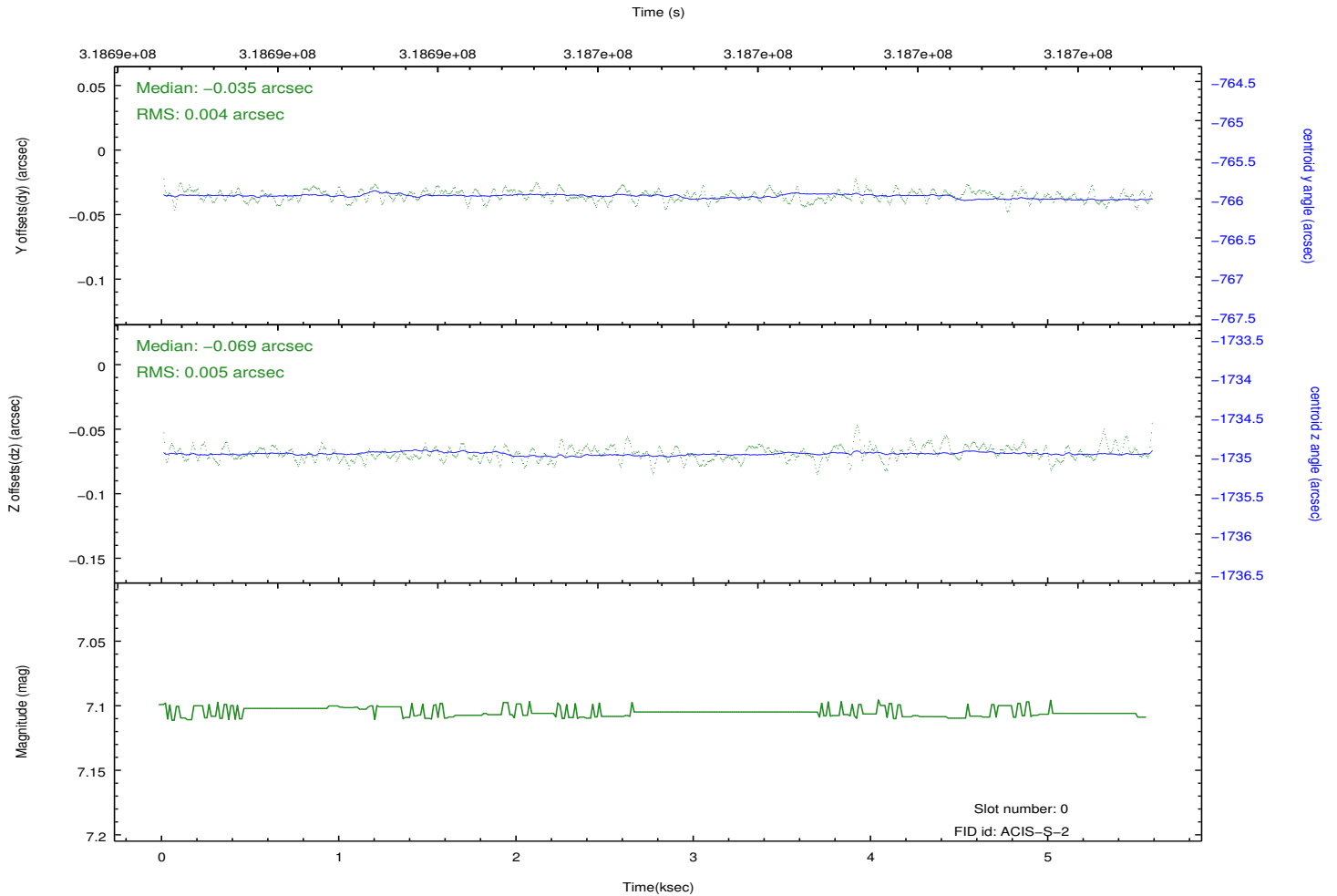
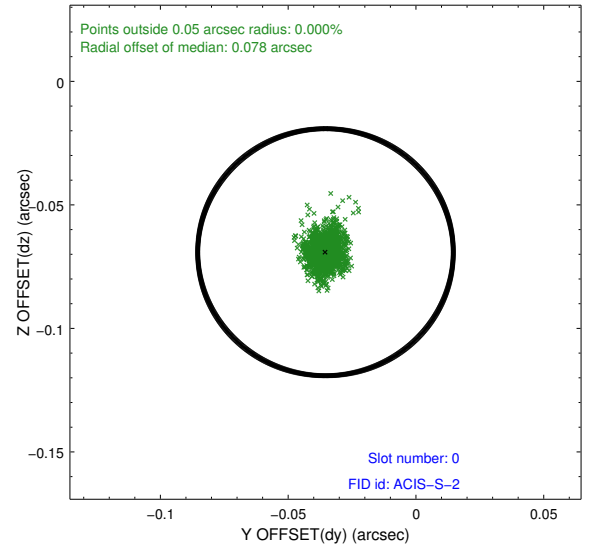
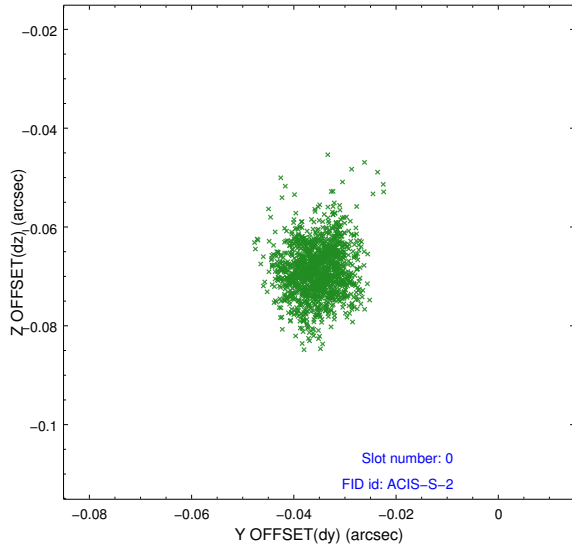


2.4.5 Slot 7

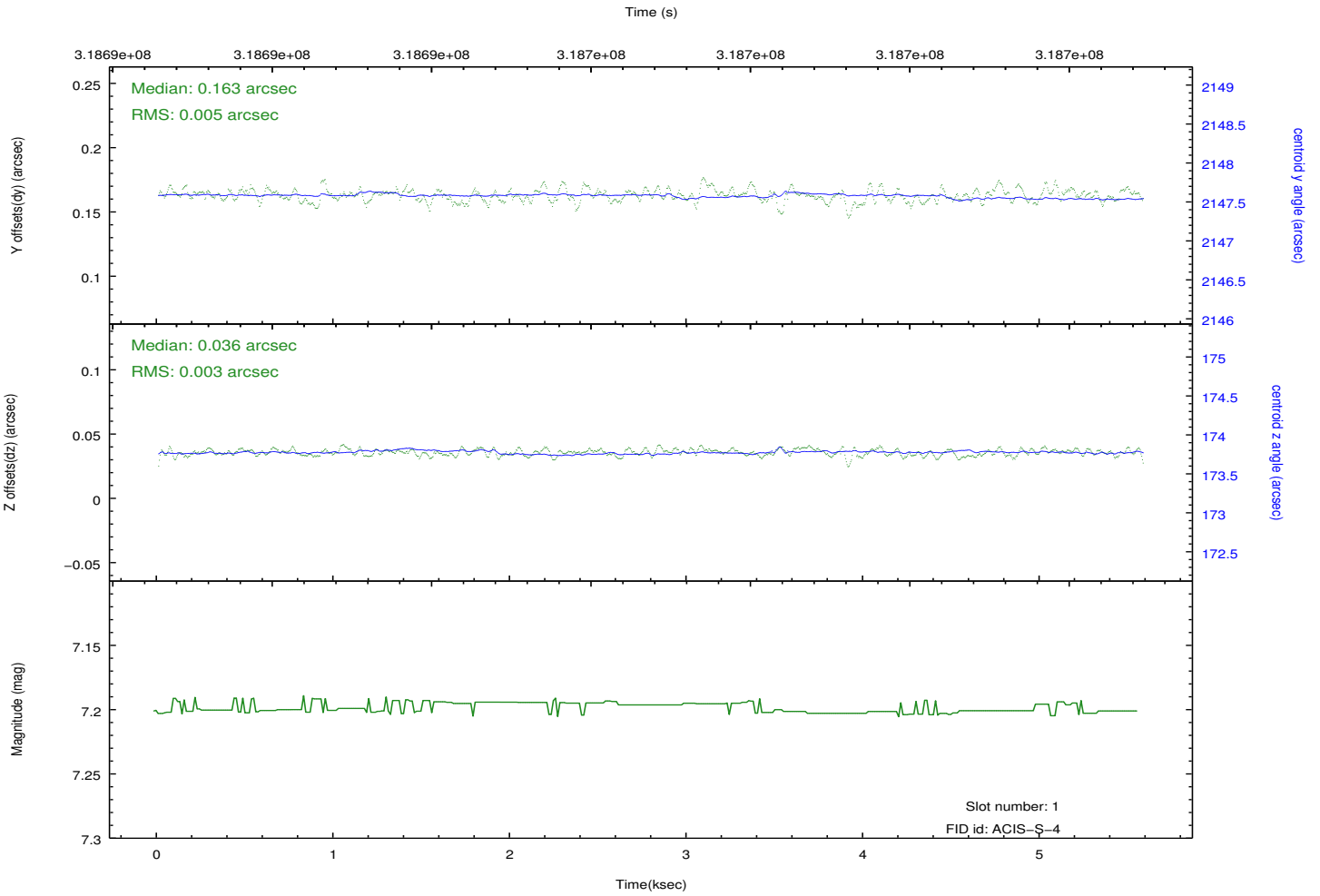
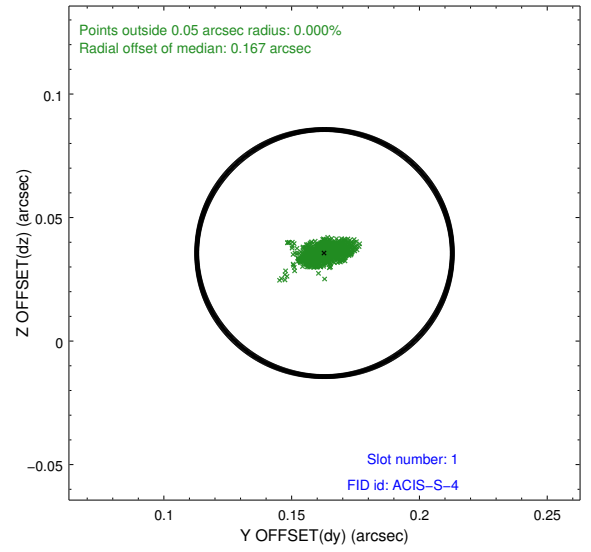
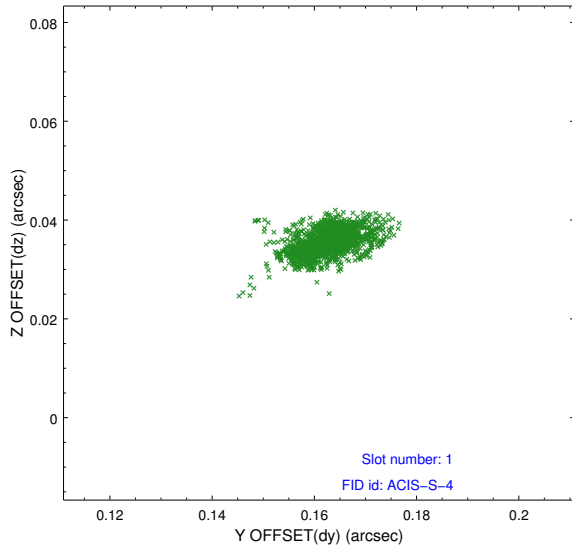


2.5 FID Slots

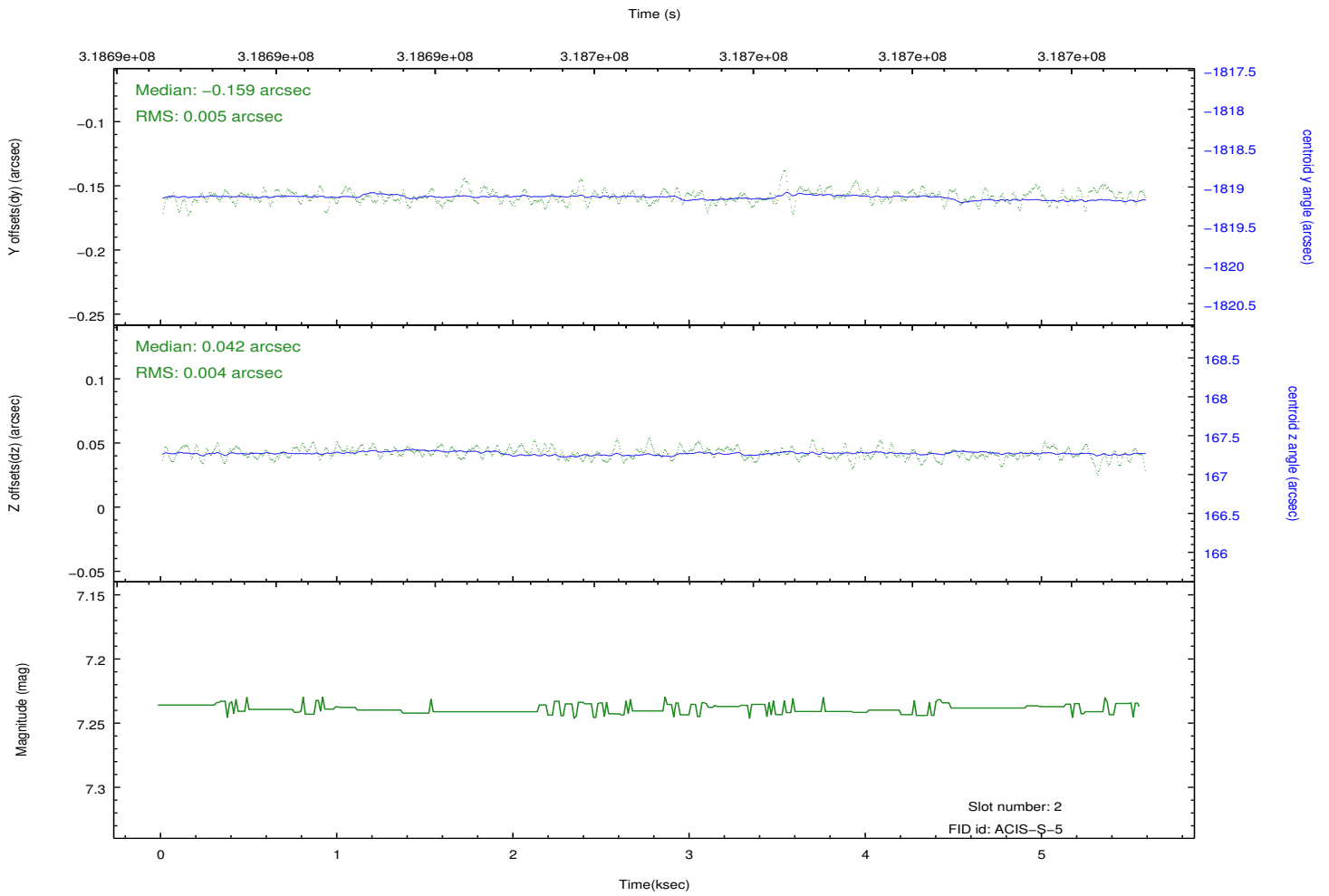
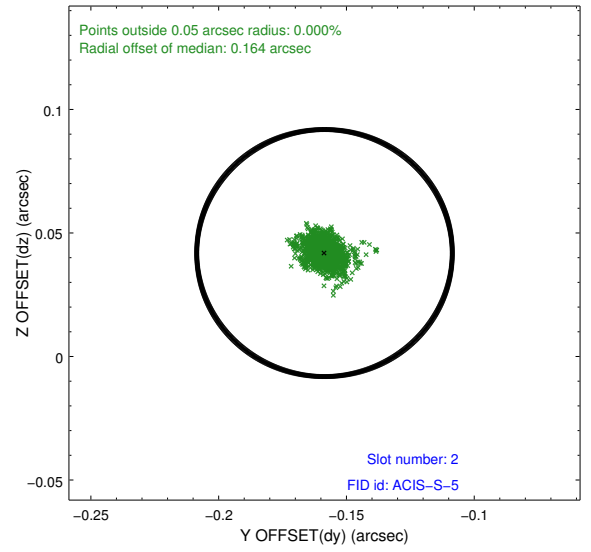
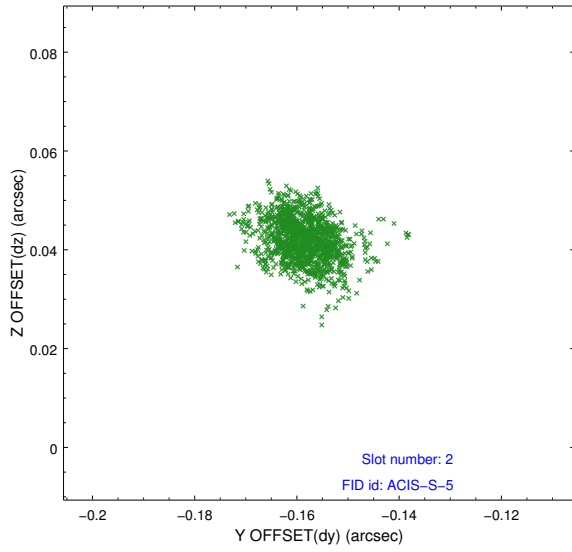
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint proposal with Spitzer.