

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8077 - L2 Version 2
Chandra X-Ray Center

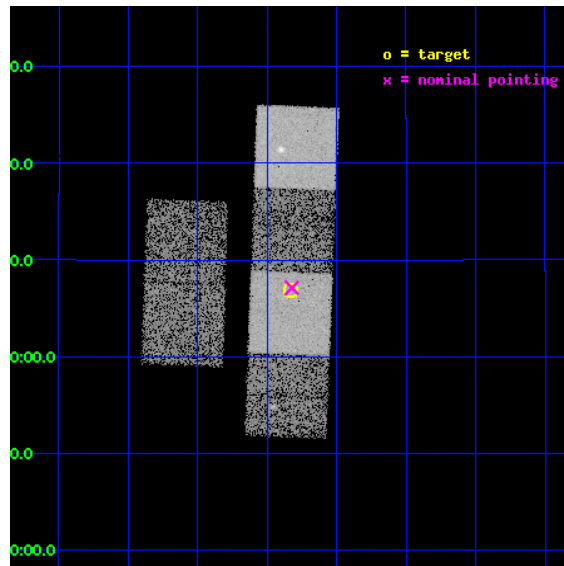
L2 Processing Date : May 10 2012

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1 Front

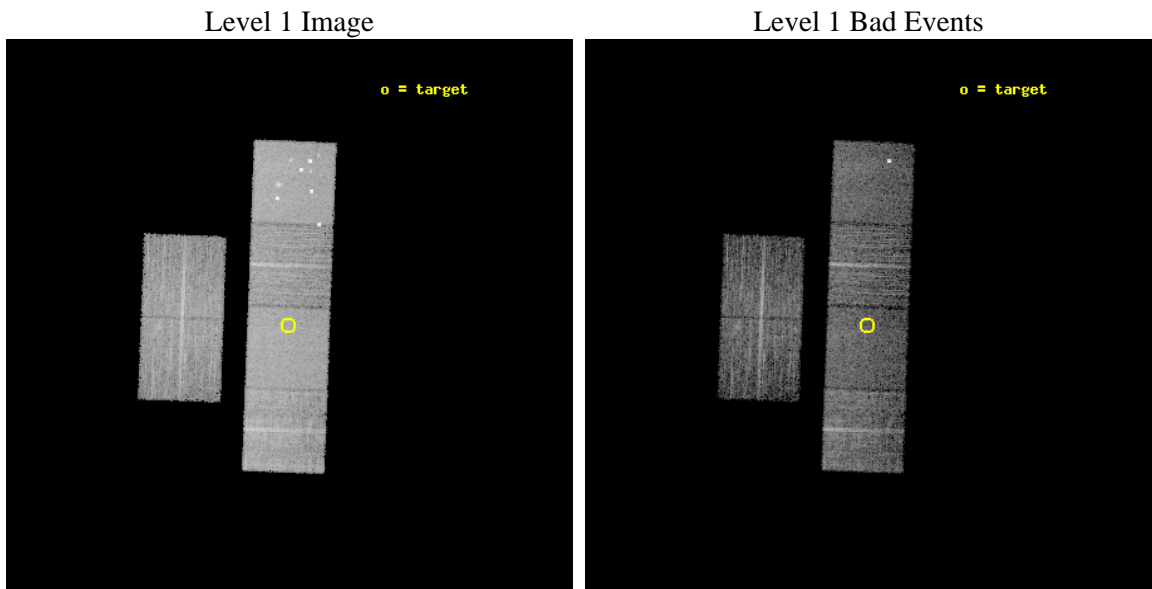
seq_num	900618	Sequence number
obs_id	8077	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1355	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.833333	Observer's specified target RA [deg]
dec_targ	14.114861	Observer's specified target Dec [deg]
ra_nom	187.83050165742	Nominal RA [deg]
dec_nom	14.118767628155	Nominal Dec [deg]
roll_nom	92.111524821474	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	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	5151.917939961	Sum of GTIs [s]
l2events	83738	Number of level 2 events



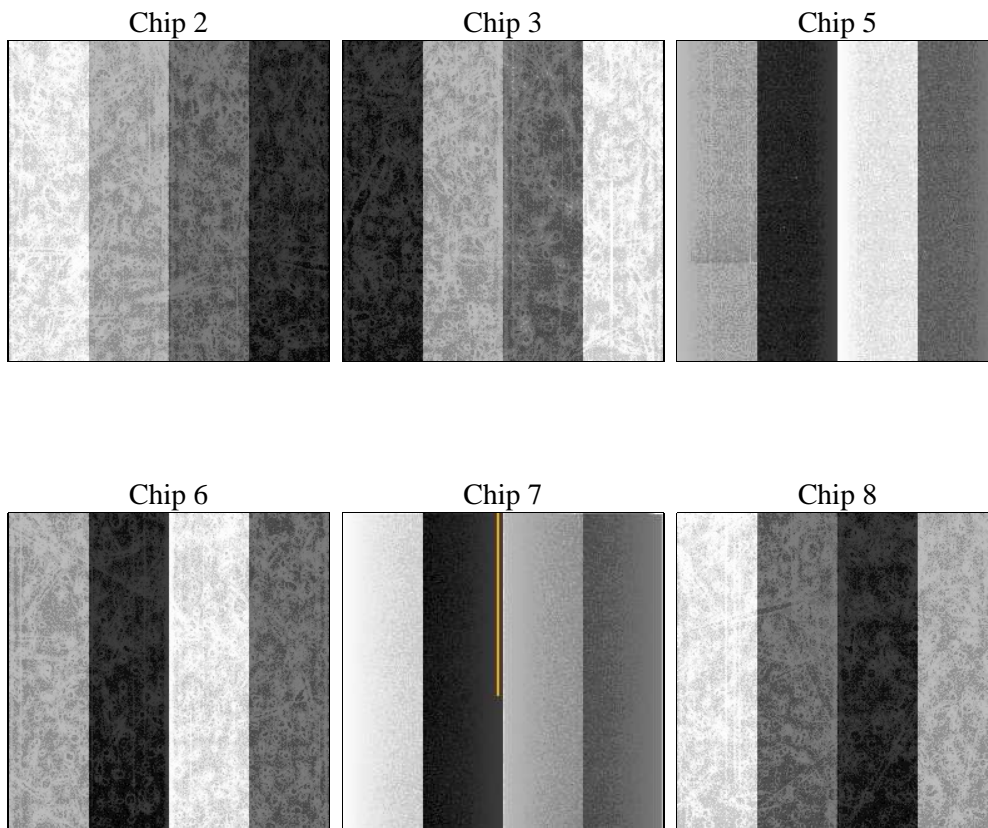
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[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	2012-05-10T08:10:10	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	5151.917939961	Sum of GTIs [s]
			l1events	374746	Number of level 1 events

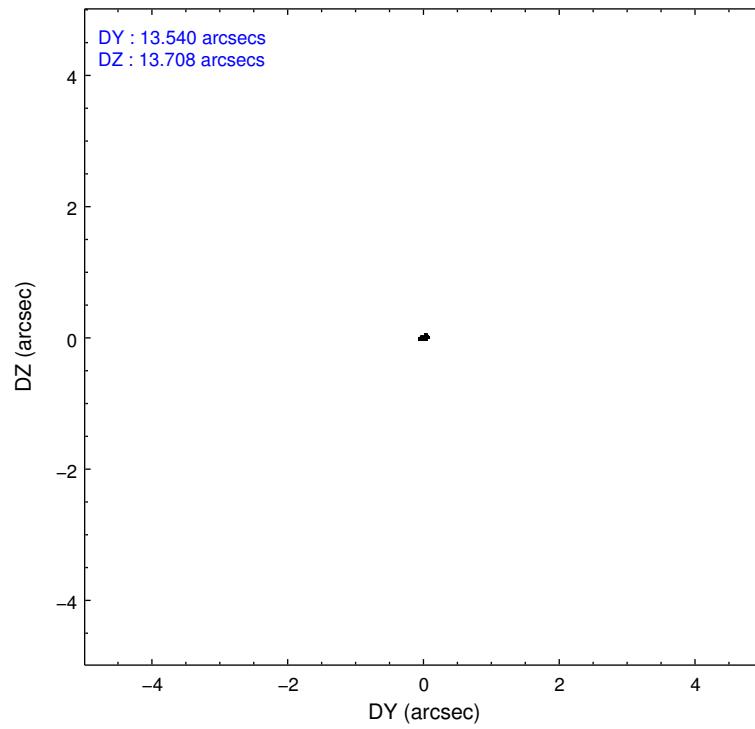
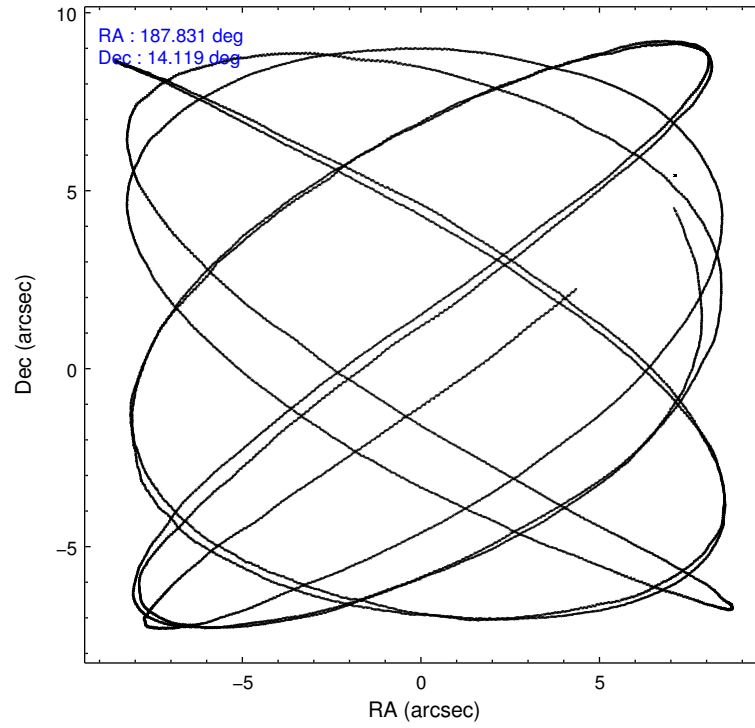
2.1.4 Events

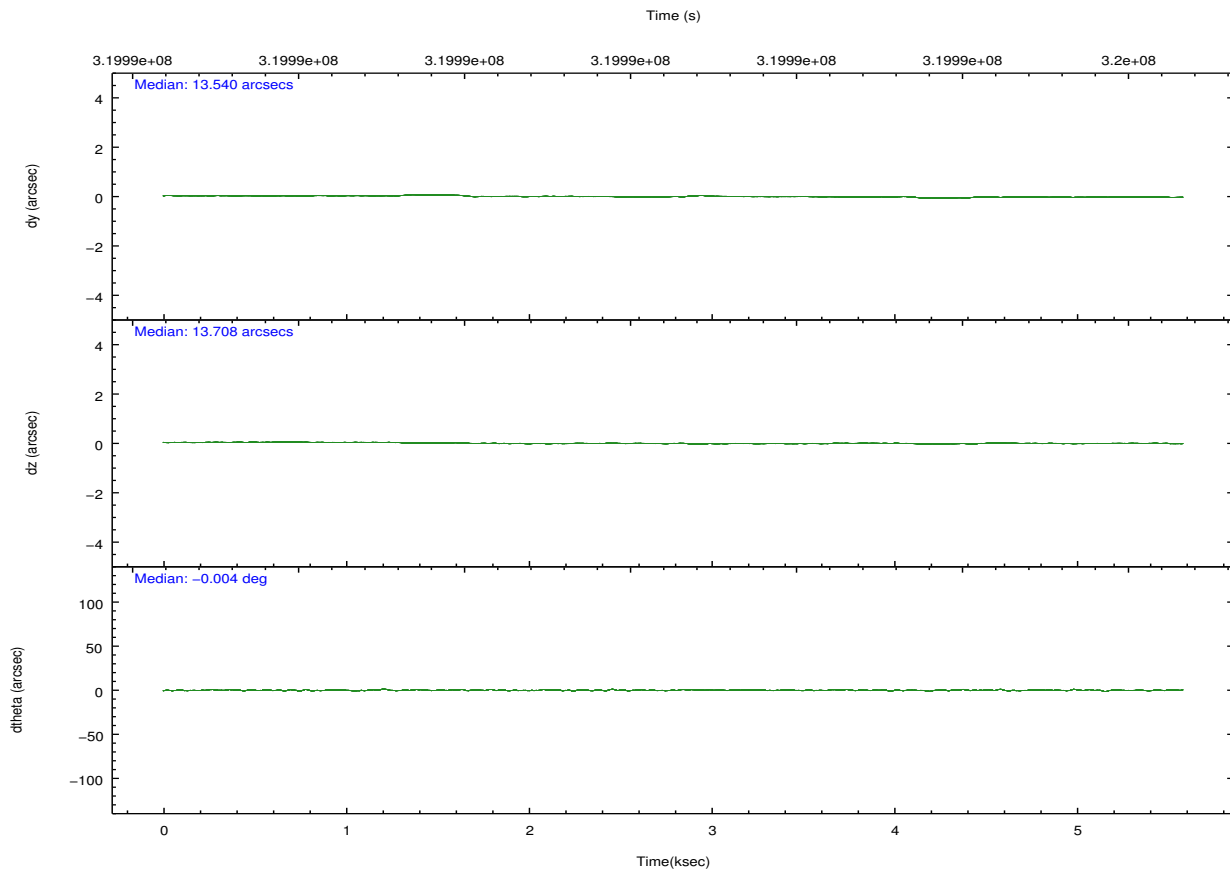
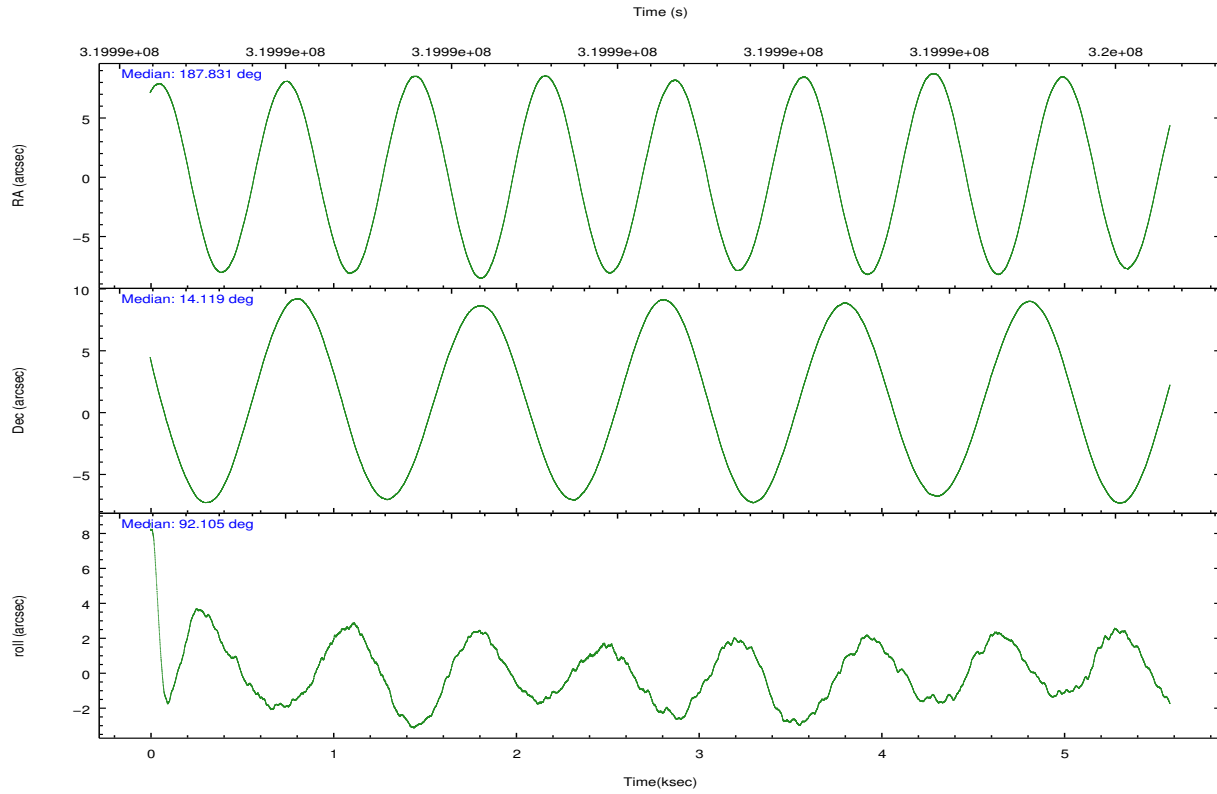
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49994	48692	85446	53149	69740	67725	grade 0 events	2500	2733	7534	2454	2563	4820
rejected events	44305	42597	43748	46969	40728	53021		5%	5%	8%	4%	3%	7%
rejected %	88%	87%	51%	88%	58%	78%	grade 1 events	37	37	133	25	72	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1147	1210	11292	1431	6102	3221
								2%	2%	13%	2%	8%	4%
							grade 3 events	506	558	1322	555	2287	1538
								1%	1%	1%	1%	3%	2%
							grade 4 events	509	559	1203	539	2437	1414
								1%	1%	1%	1%	3%	2%
							grade 5 events	1995	2286	5194	2324	6413	3142
								3%	4%	6%	4%	9%	4%
							grade 6 events	1033	1040	20380	1204	15642	3716
								2%	2%	23%	2%	22%	5%
							grade 7 events	42267	40269	38388	44617	34224	49821
								84%	82%	44%	83%	49%	73%

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	187.845866	187.8305016574192	CCD I2 on	O1	Y
[deg] Pointing Dec	14.095934	14.11876762815471	CCD I3 on	O2	Y
[deg] Pointing Roll	91.951142	92.11152482147426	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)	319989648.184000	319989057.01897	CCD S5 on	N	N
Observation start date	2008-02-21T13:59:43	2008-02-21T13:50:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319995048.184000	319995280.81927	On-chip summing requested	N	N
Observation end date	2008-02-21T15:29:43	2008-02-21T15:34:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



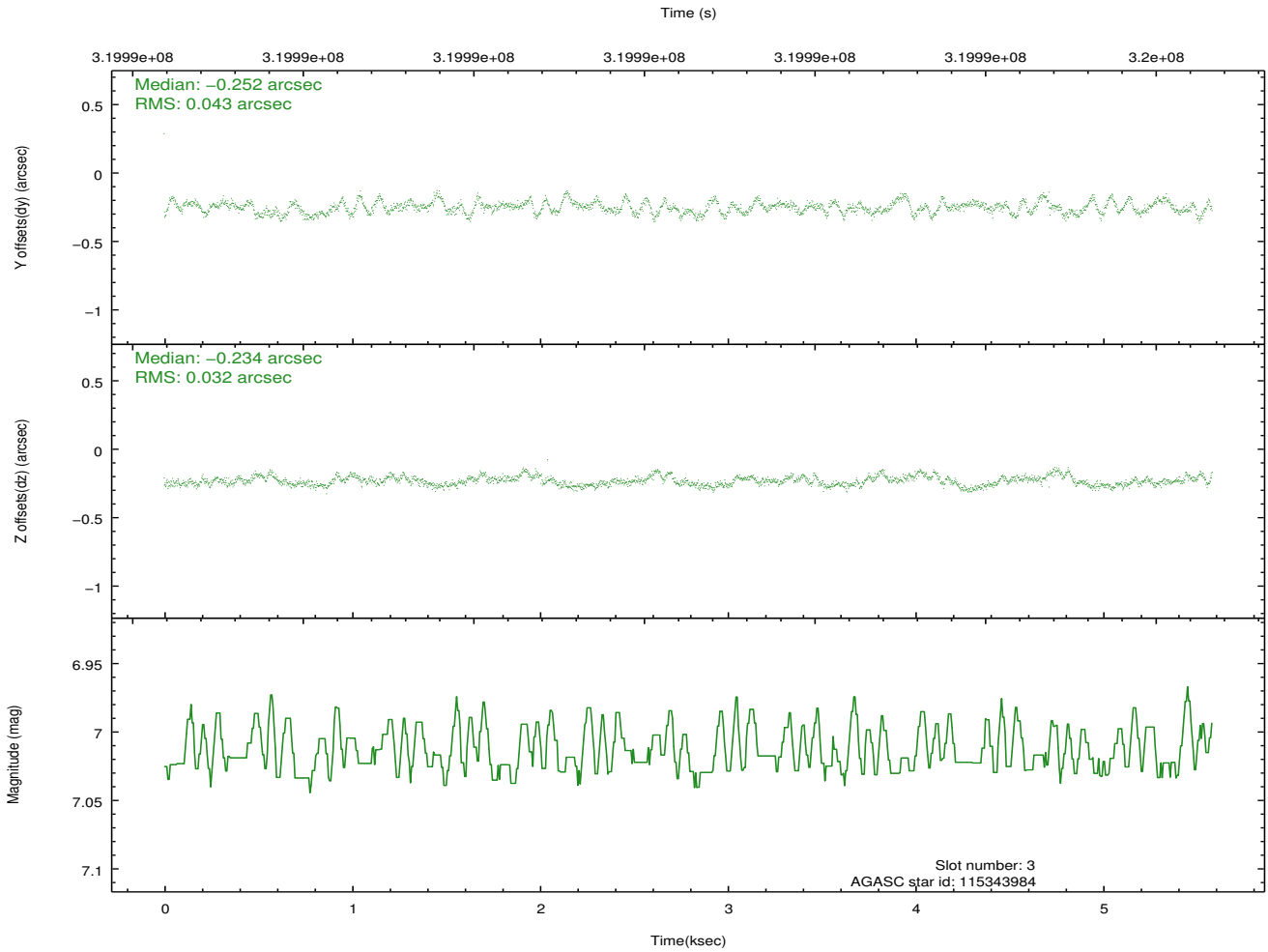
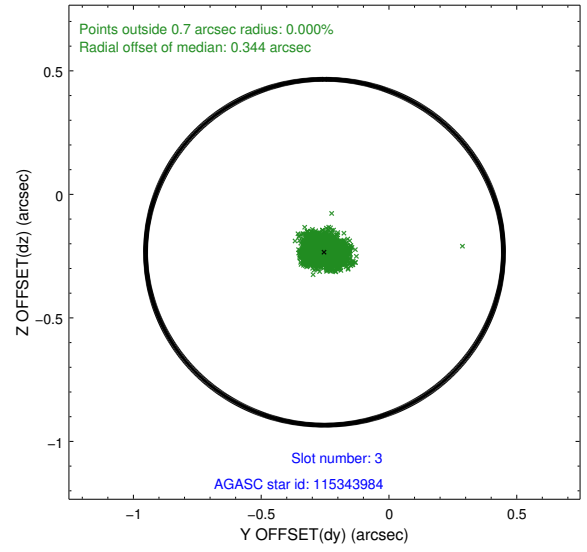
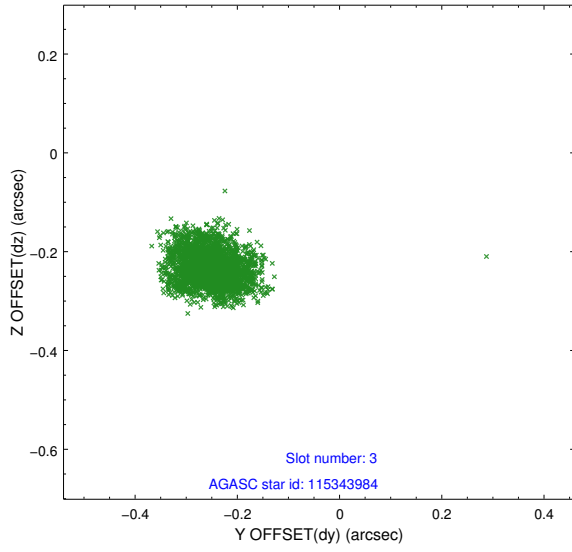


Slot Statistics

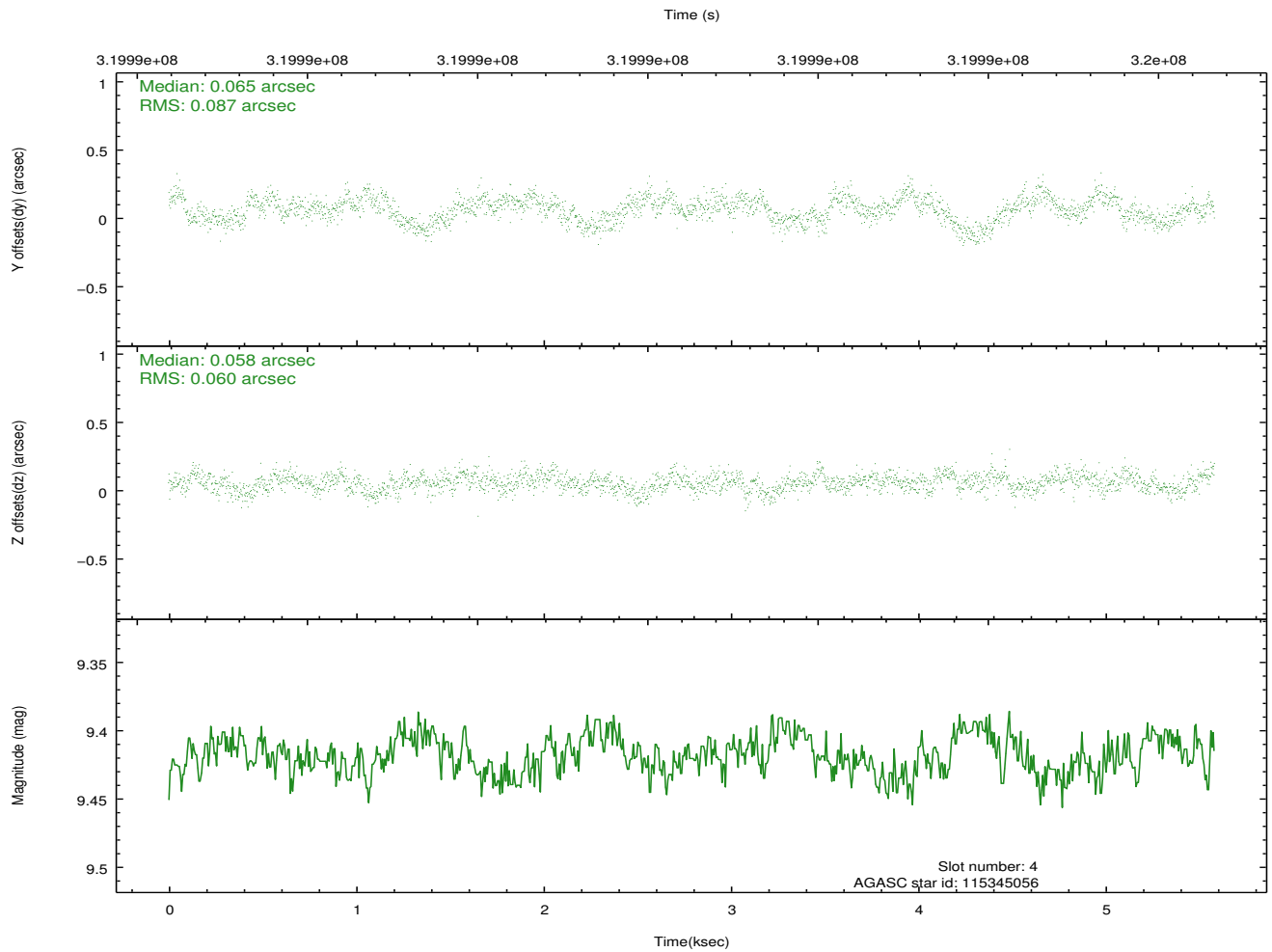
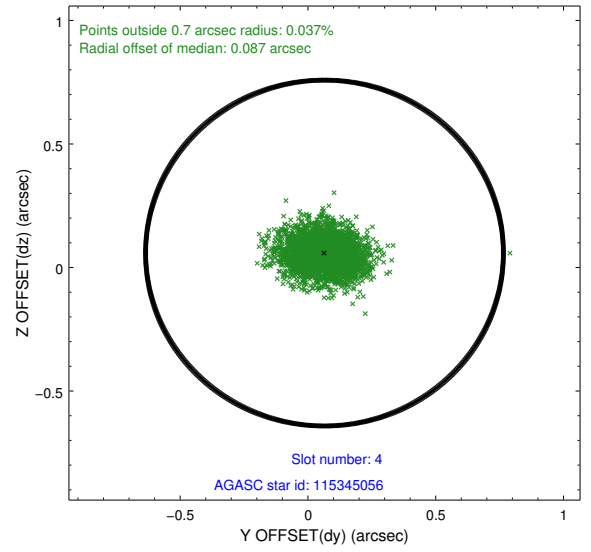
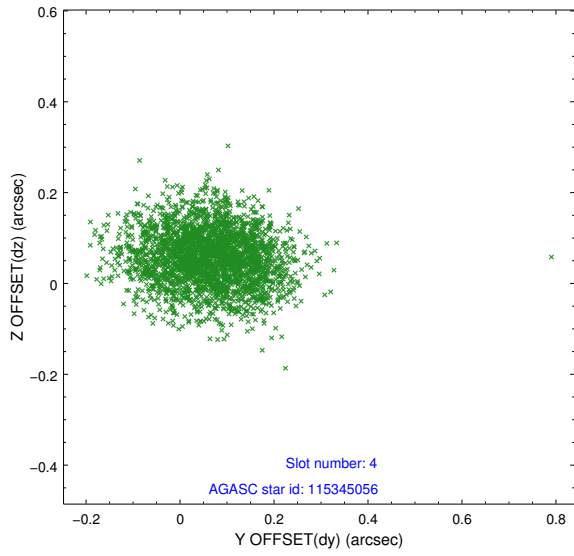
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.042	-0.058	0.007	0.011	0.000000	0.000000	-766.52	-1735.07
1	FID	ACIS-S-4	7.20	1362	0.169	0.036	0.006	0.010	0.000000	0.000000	2146.48	172.39
2	FID	ACIS-S-5	7.23	1362	-0.159	0.031	0.007	0.011	0.000000	0.000000	-1818.10	167.29
3	GUIDE	115343984	7.02	2724	-0.252	-0.234	0.058	0.089	187.445111	14.650185	2043.32	1327.34
4	GUIDE	115345056	9.42	2717	0.065	0.058	0.112	0.181	187.860673	14.574305	1720.92	-108.96
5	GUIDE	115347648	8.01	2724	0.019	-0.310	0.061	0.097	187.273687	13.950334	-452.18	2015.21
6	GUIDE	115347720	9.51	2722	0.158	0.148	0.118	0.185	188.304790	13.999135	-400.53	-1589.51
7	GUIDE	115348280	9.76	2719	0.019	0.344	0.134	0.209	188.509617	13.876544	-864.22	-2292.15

2.4 Star Slots

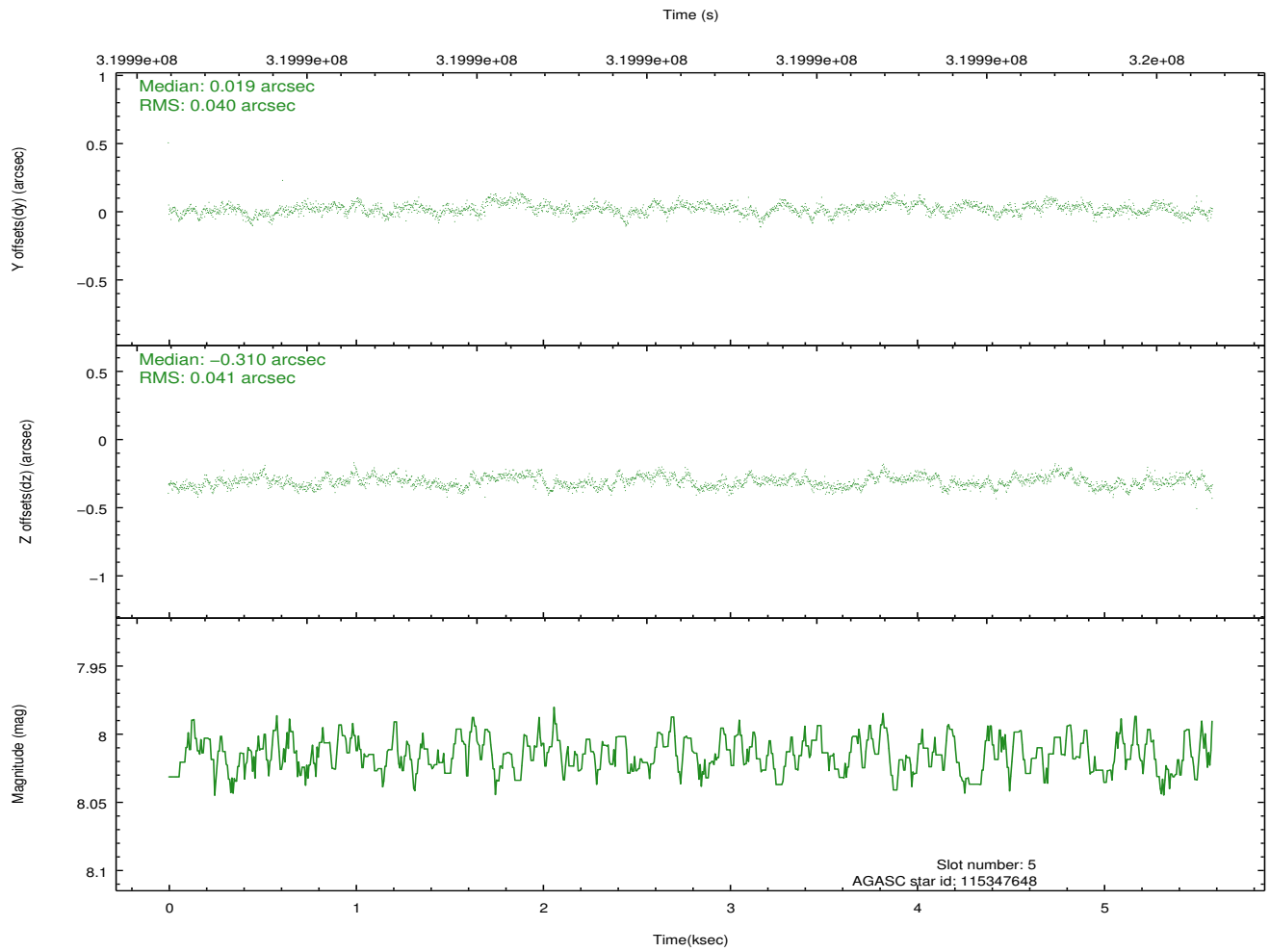
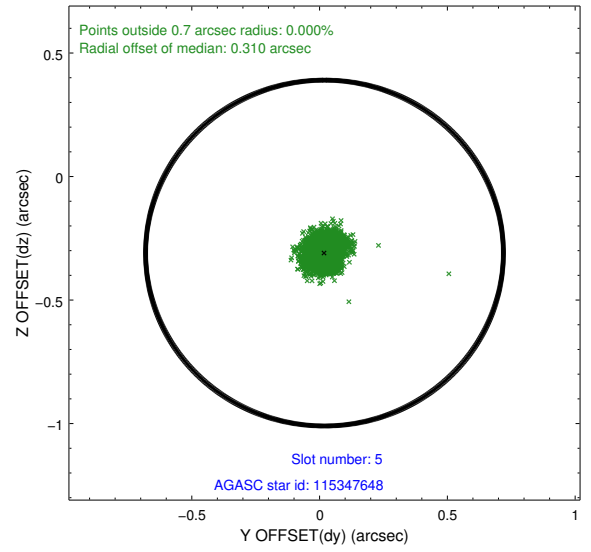
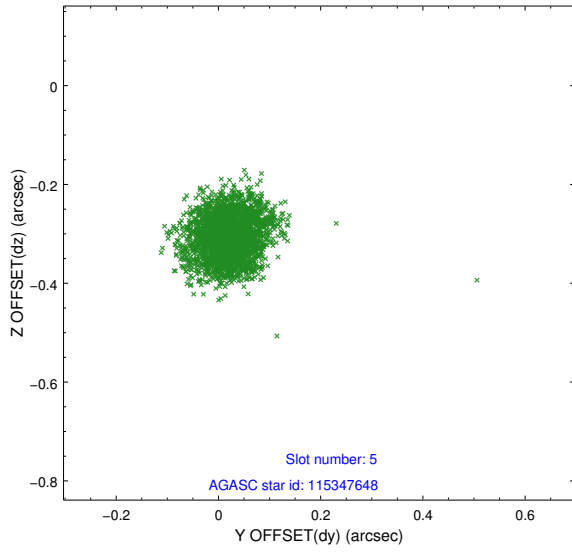
2.4.1 Slot 3



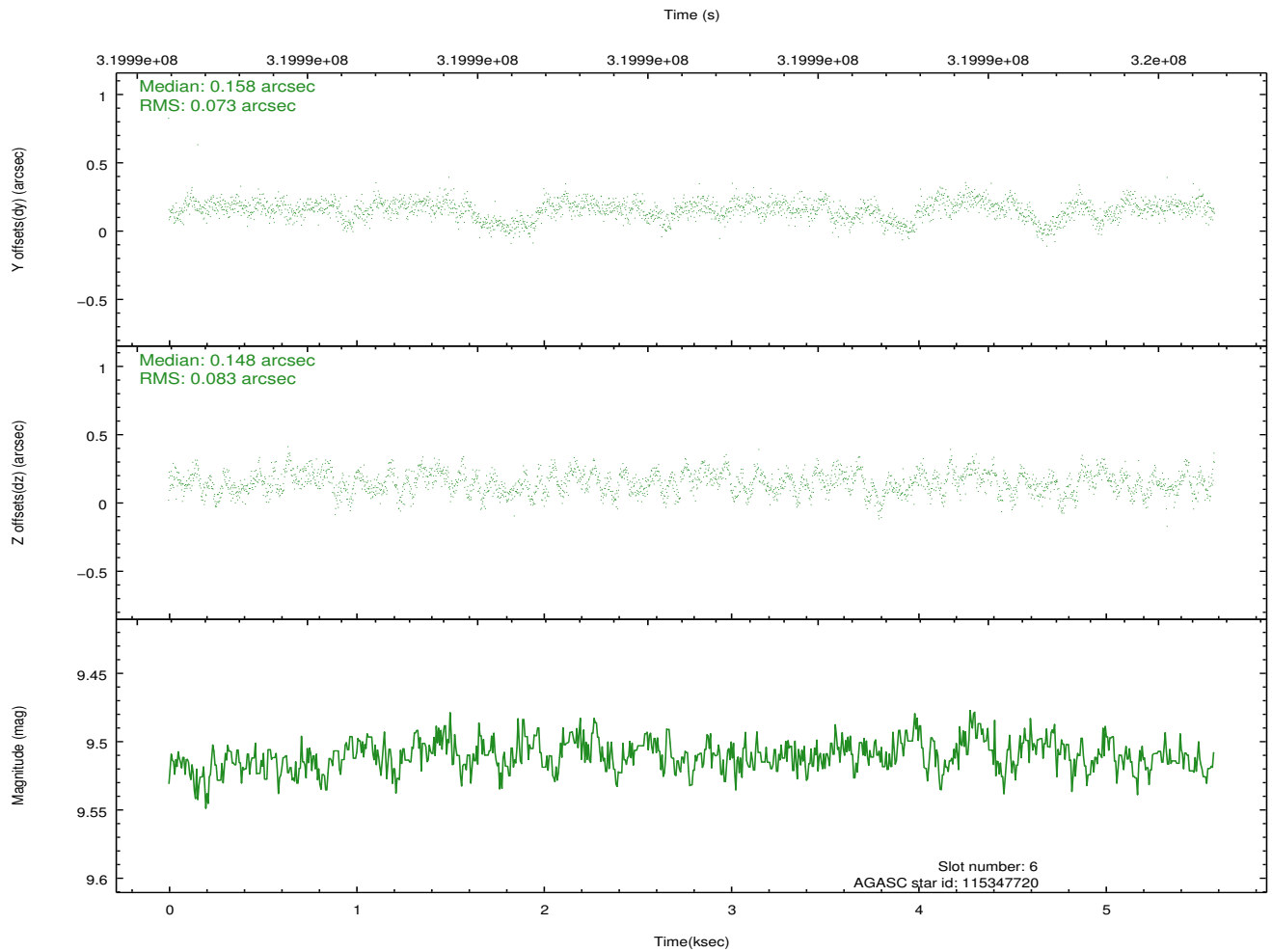
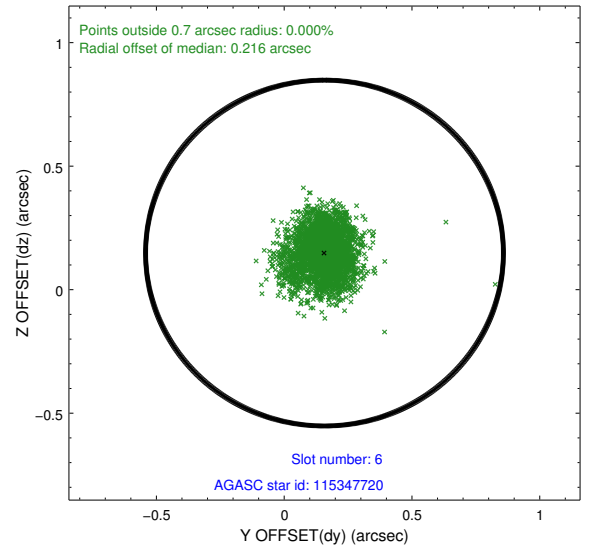
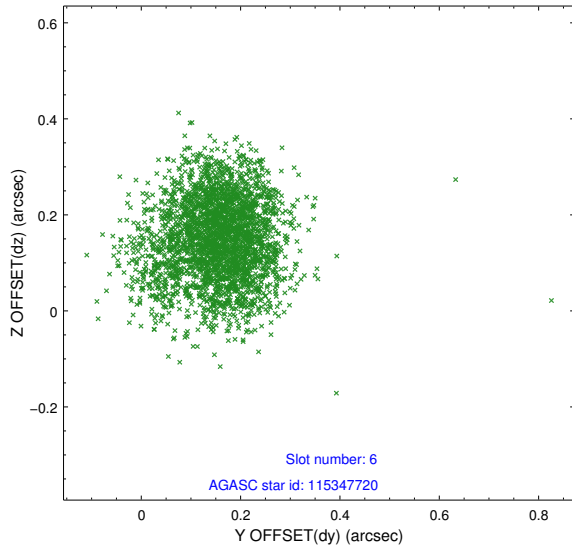
2.4.2 Slot 4



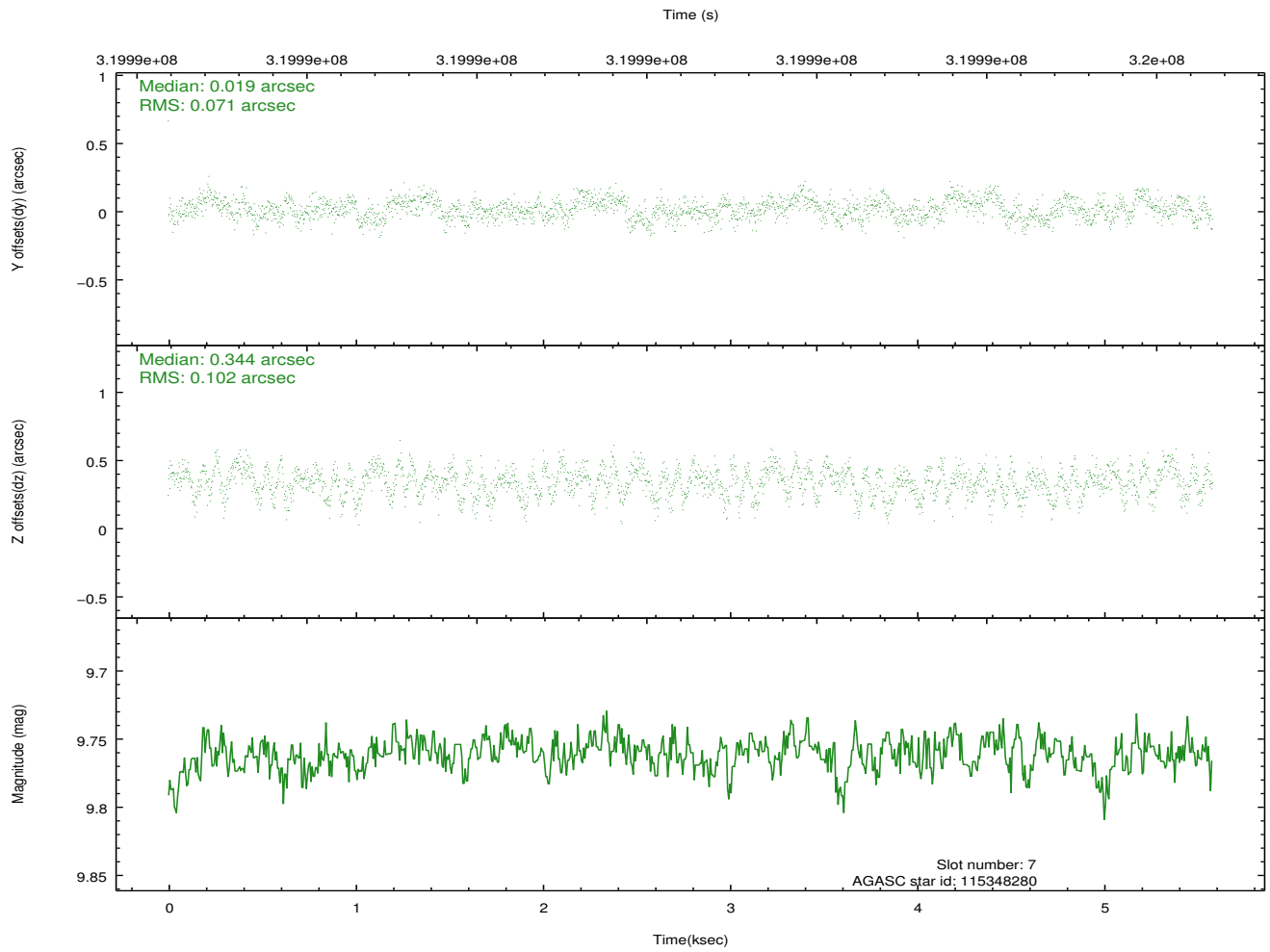
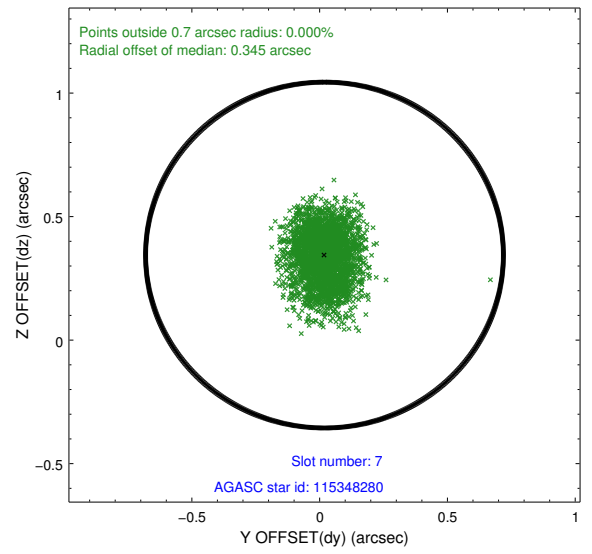
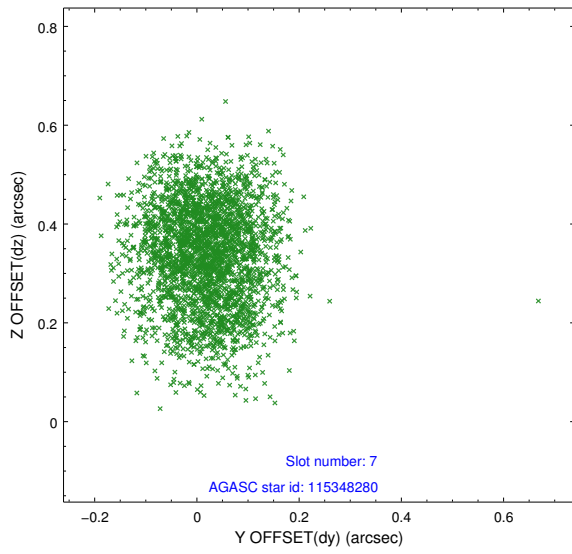
2.4.3 Slot 5



2.4.4 Slot 6

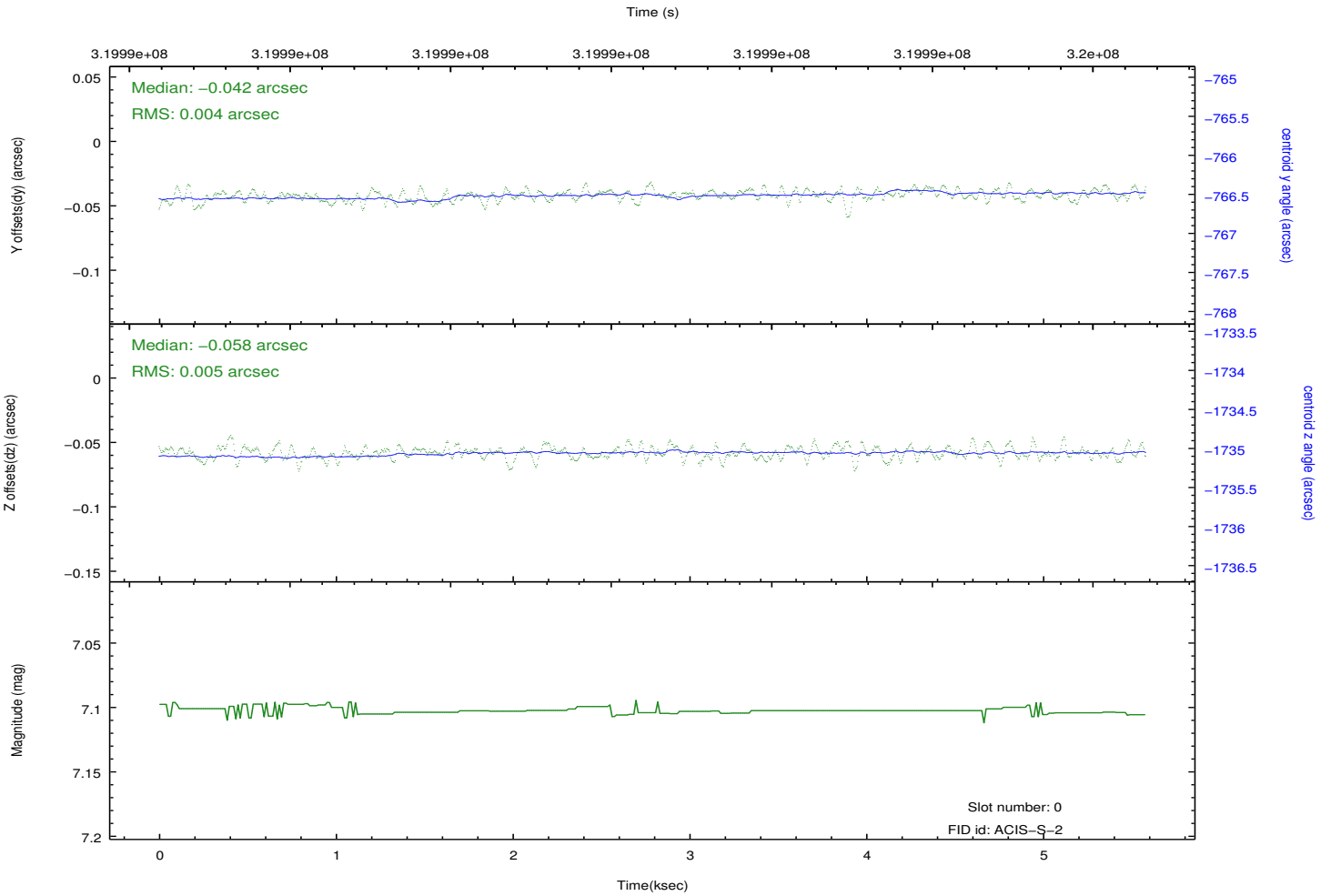
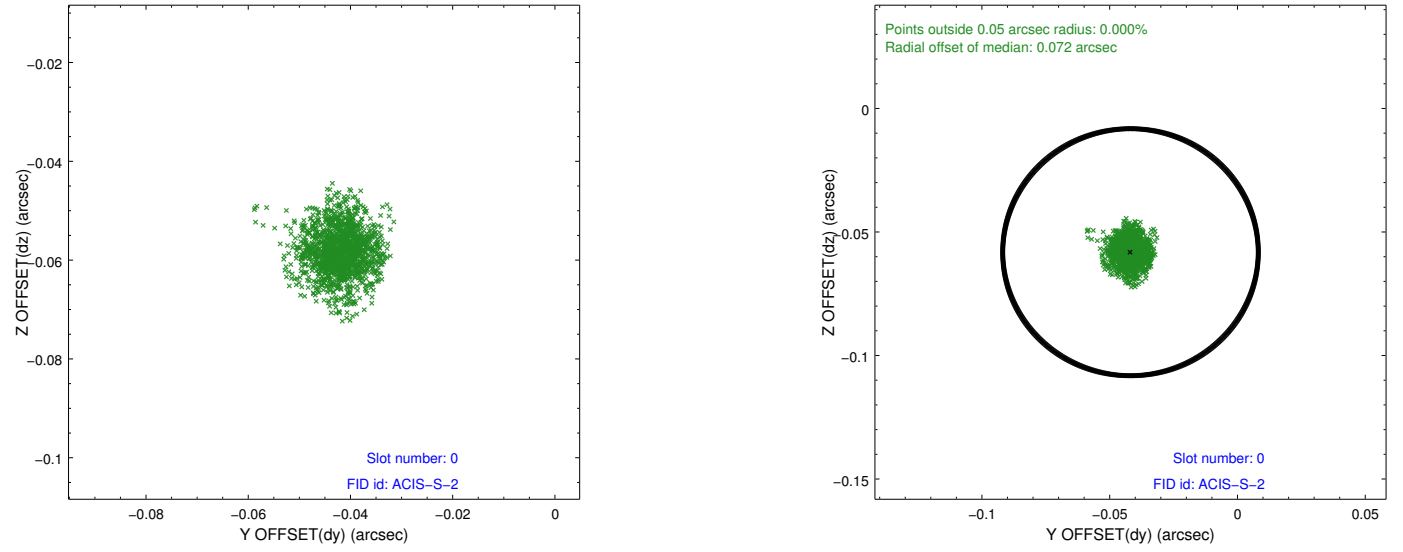


2.4.5 Slot 7

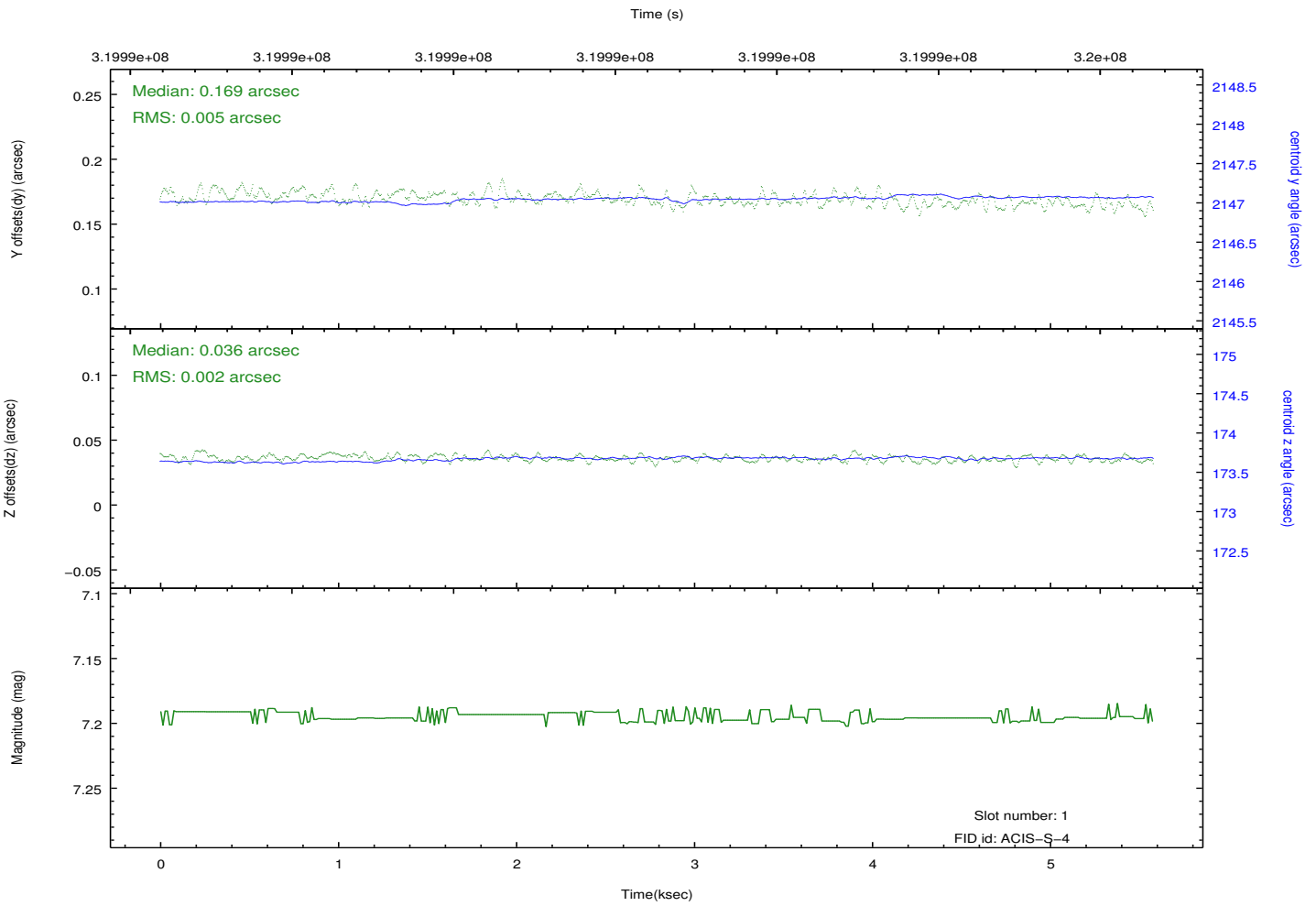
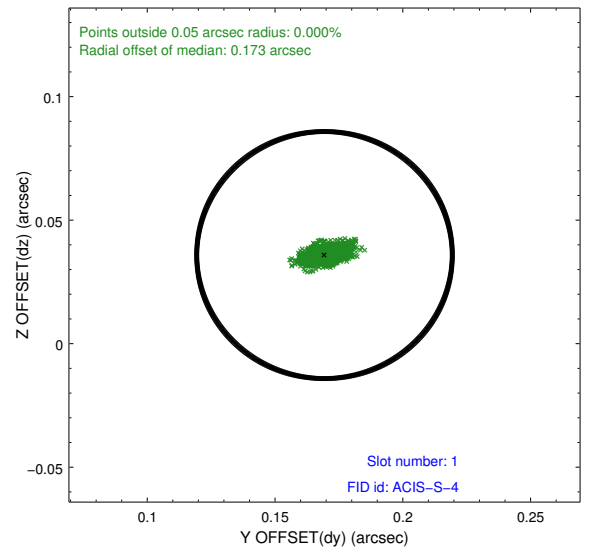
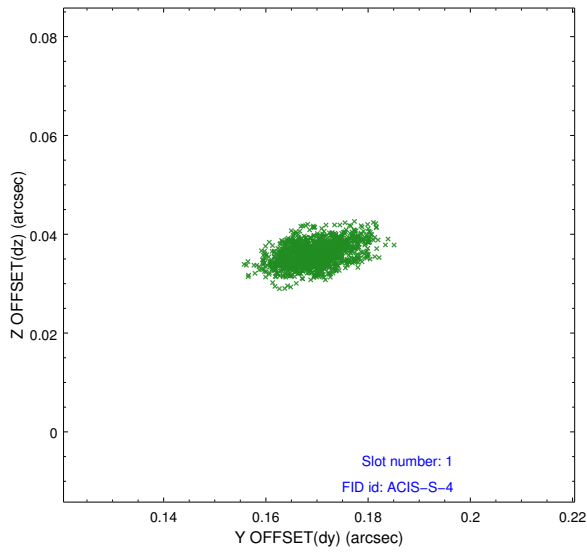


2.5 FID Slots

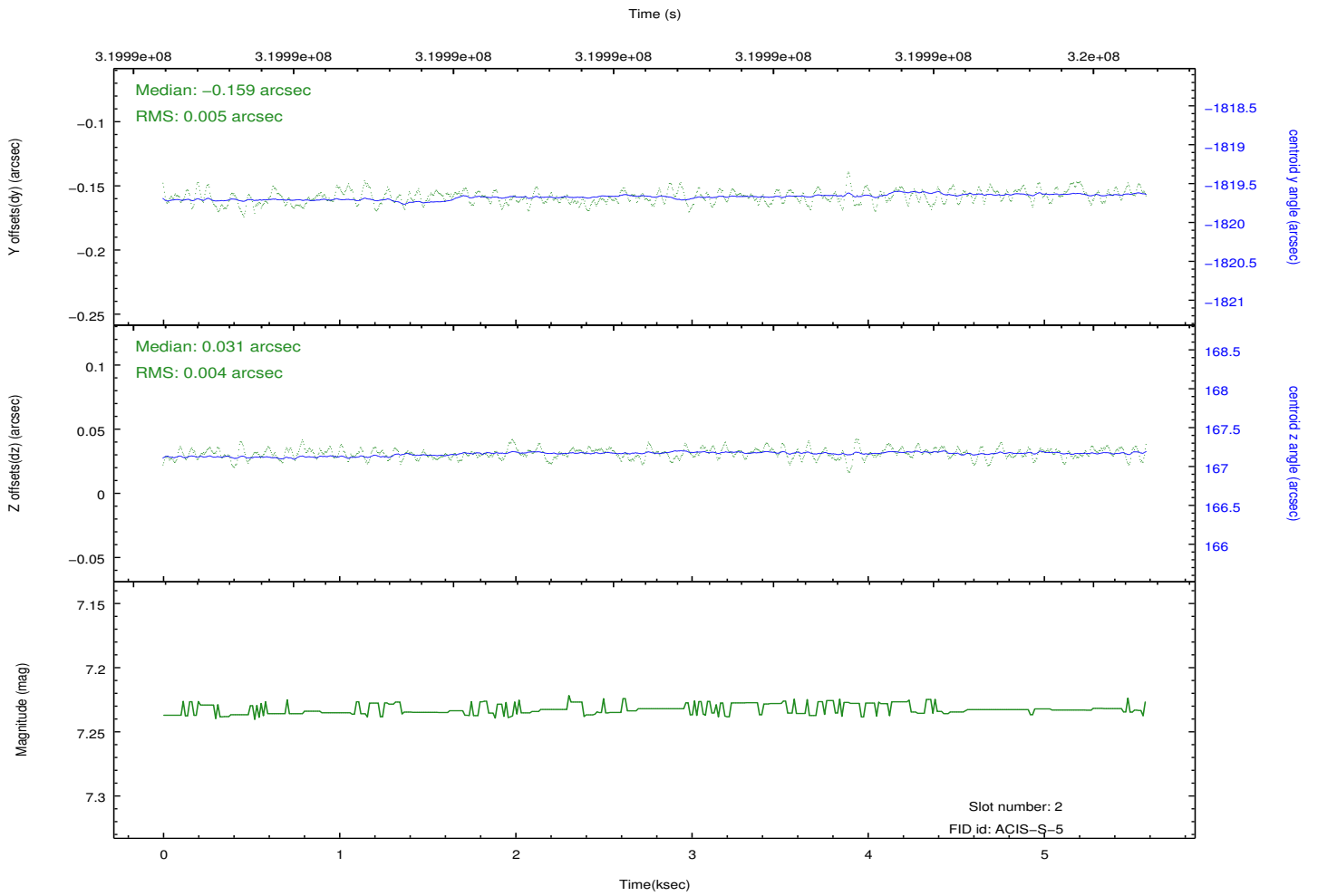
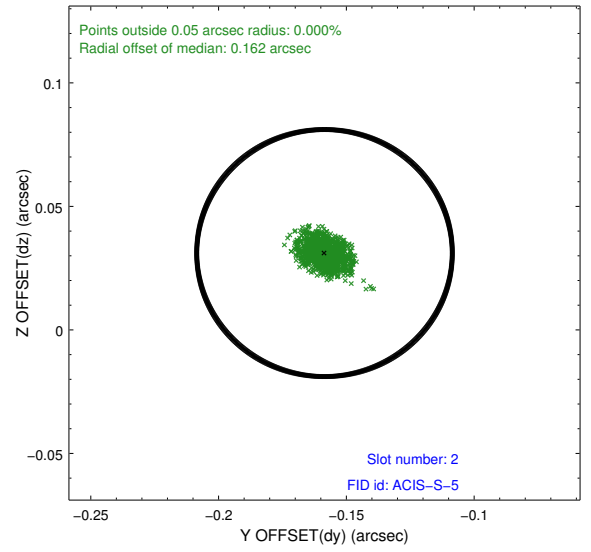
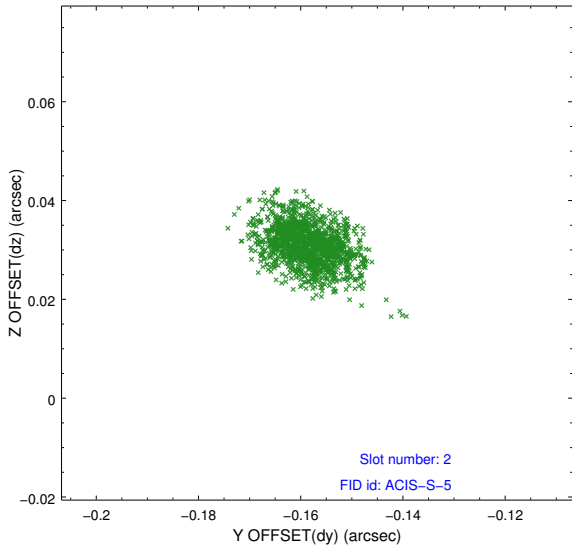
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer