

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11085 - L2 Version 2
Chandra X-Ray Center

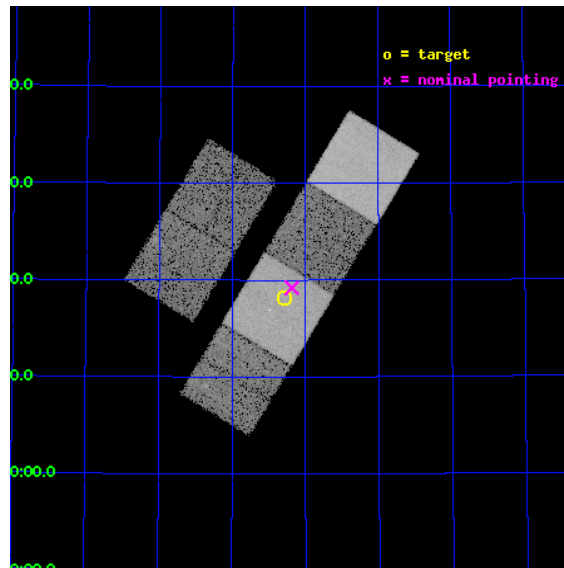
L2 Processing Date : Jun 30 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

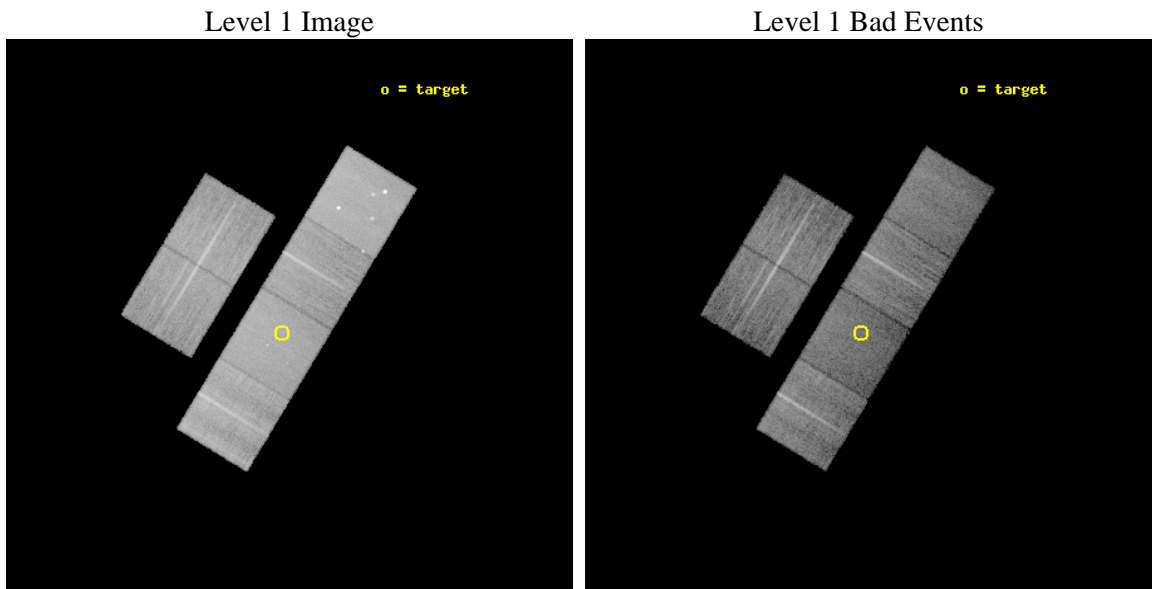
seq_num	401120	Sequence number
obs_id	11085	Observation id
title	X-Ray Binaries In a Nearby Star-Burst Galaxy: A New Lab for Astrophysics.	Proposal title
observer	Dr Silas Laycock	Principal investigator
object	IC 10	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.072083	Observer's specified target RA [deg]
dec_targ	59.303778	Observer's specified target Dec [deg]
ra_nom	5.0467395818584	Nominal RA [deg]
dec_nom	59.320250509278	Nominal Dec [deg]
roll_nom	121.25289921972	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15049.159708321	Sum of GTIs [s]
livetime	14858.598186578	Livetime [s]
ontime2	15049.200748324	Sum of GTIs [s]
ontime3	15049.036588311	Sum of GTIs [s]
ontime5	15049.118668318	Sum of GTIs [s]
ontime6	15049.077628314	Sum of GTIs [s]
ontime7	15049.159708321	Sum of GTIs [s]
ontime8	15048.995548308	Sum of GTIs [s]
l2events	185556	Number of level 2 events



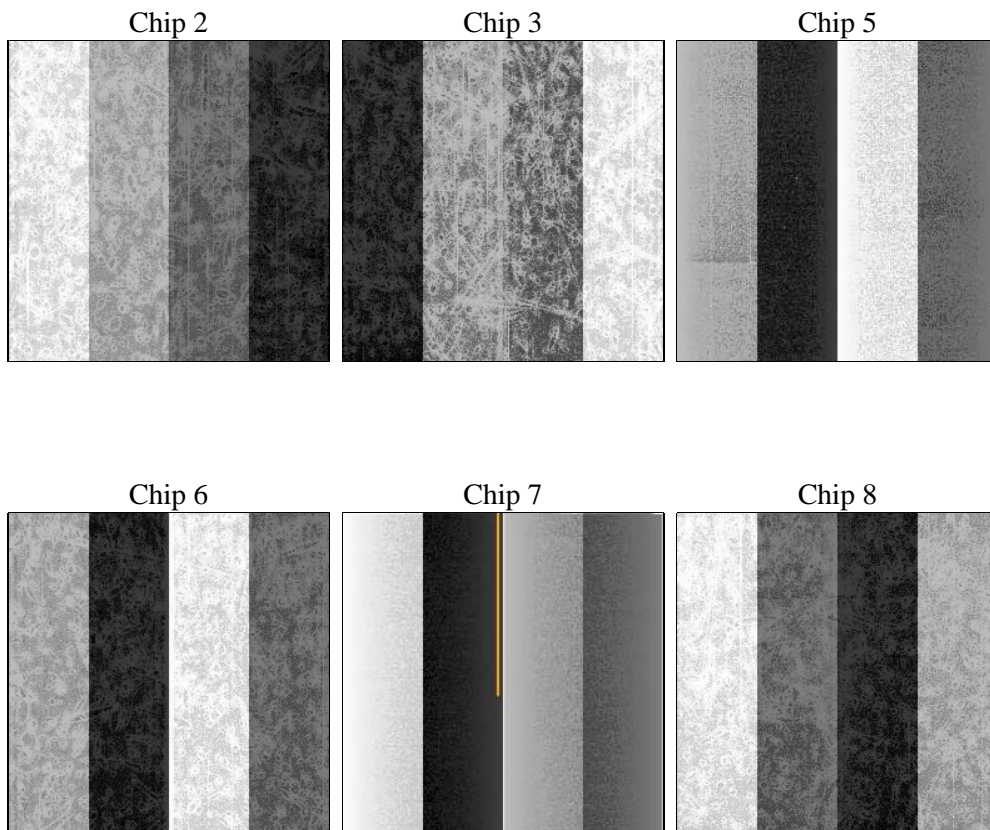
2 OBI

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	8.4.5	Processing system revision	ontime	15049.159708321	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	15049.200748324	Sum of GTIs [s]
date	2012-06-30T13:52:43	Date and time of file creation	ontime3	15049.036588311	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15049.118668318	Sum of GTIs [s]
			ontime6	15049.077628314	Sum of GTIs [s]
			ontime7	15049.159708321	Sum of GTIs [s]
			ontime8	15048.995548308	Sum of GTIs [s]
			l1events	810258	Number of level 1 events

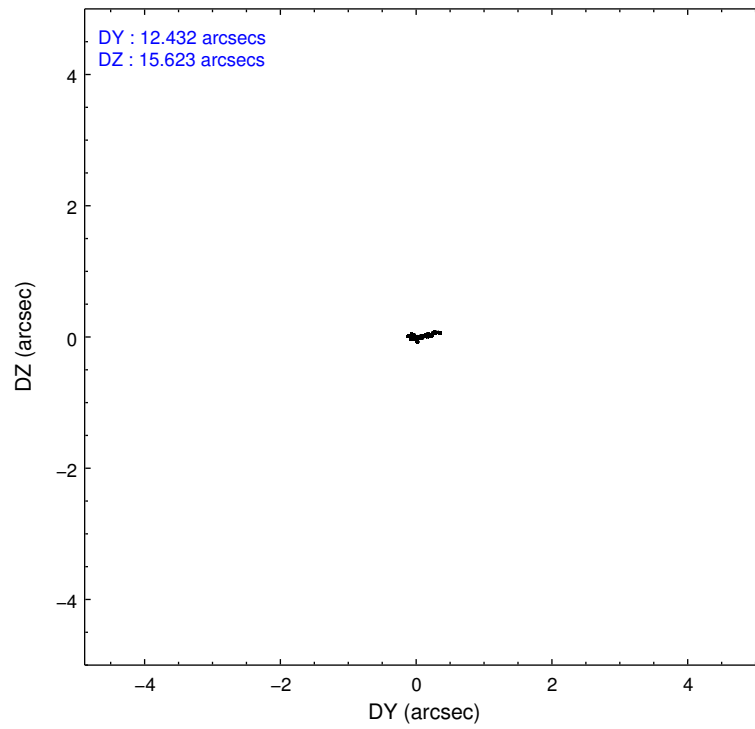
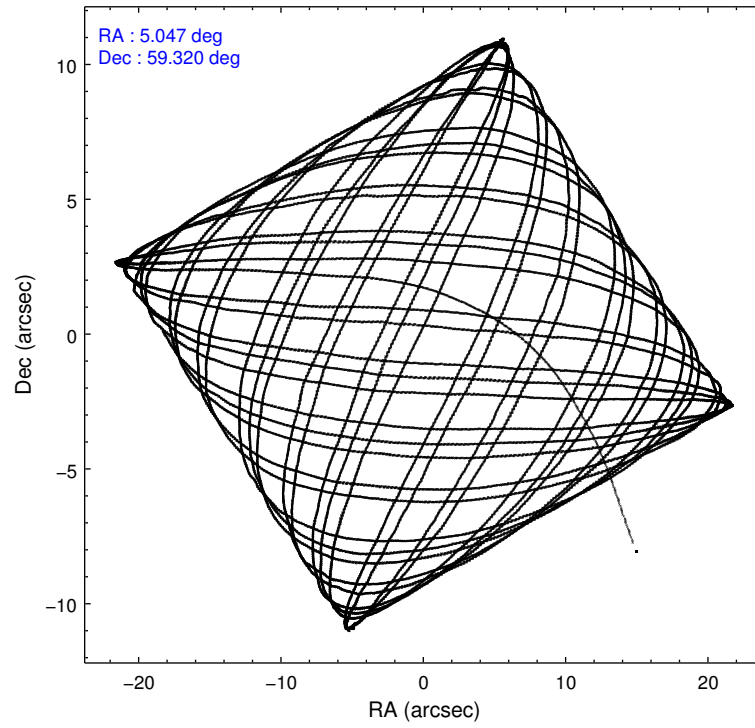
2.1.4 Events

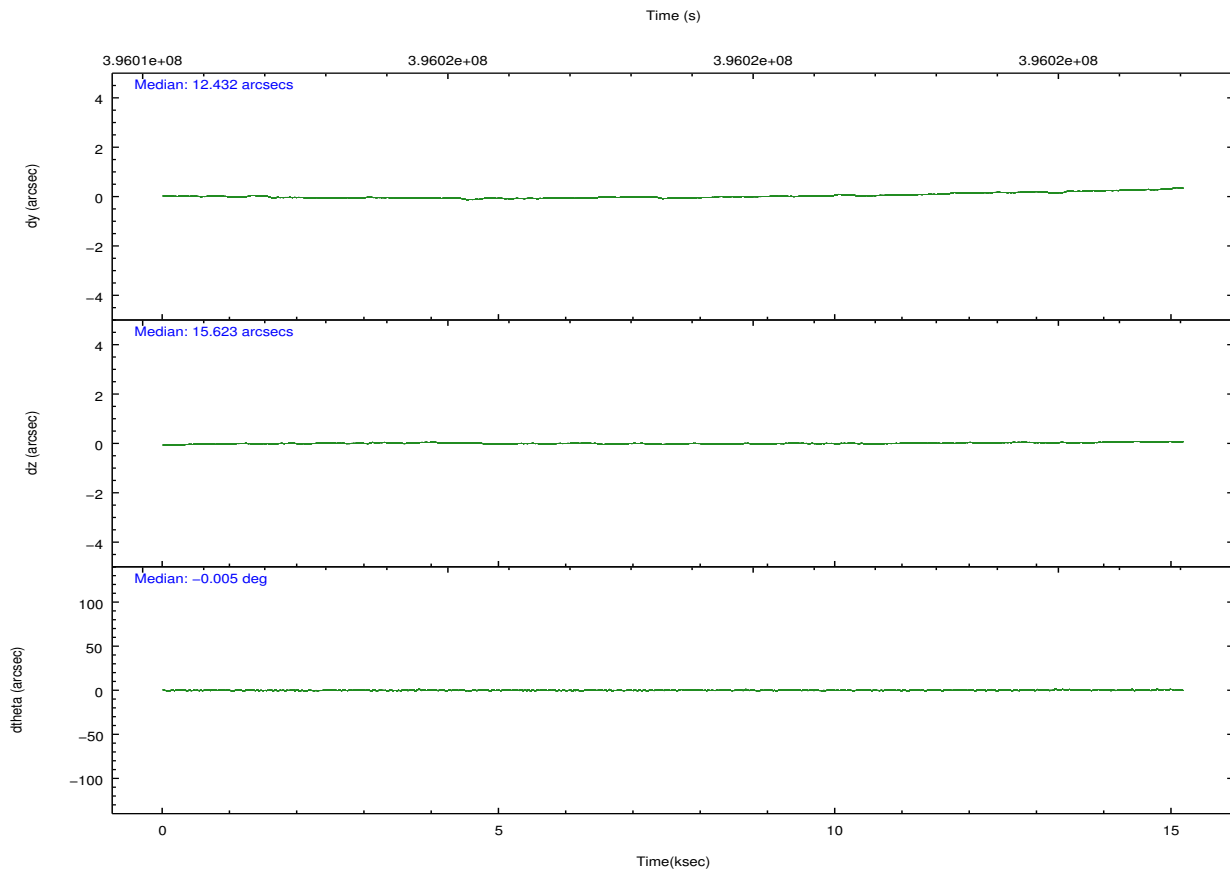
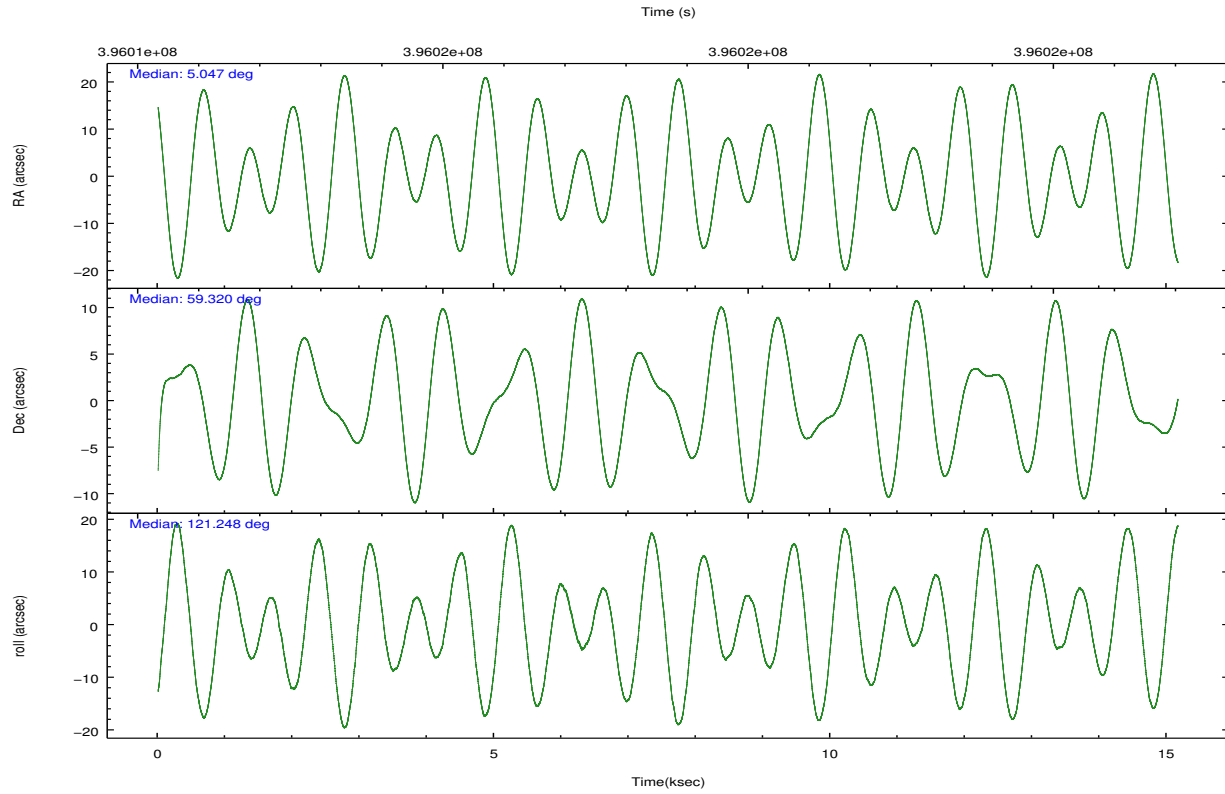
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	119311	109120	176902	115493	139798	149634	grade 0 events	4325	3975	11811	4441	5920	11748
rejected events	107101	97770	87018	102867	76425	110888		3%	3%	6%	3%	4%	7%
rejected %	89%	89%	49%	89%	54%	74%	grade 1 events	86	66	418	60	172	135
								0%	0%	0%	0%	0%	0%
							grade 2 events	3060	2537	26890	2773	13328	9056
								2%	2%	15%	2%	9%	6%
							grade 3 events	1223	1264	3278	1384	5754	4009
								1%	1%	1%	1%	4%	2%
							grade 4 events	1258	1303	3186	1235	5539	3744
								1%	1%	1%	1%	3%	2%
							grade 5 events	4393	4941	13045	4990	14555	7471
								3%	4%	7%	4%	10%	4%
							grade 6 events	2346	2276	44768	2800	32850	10226
								1%	2%	25%	2%	23%	6%
							grade 7 events	102620	92758	73506	97810	61680	103245
								86%	85%	41%	84%	44%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	5.094068	5.04673958185839	CCD I2 on	O2	Y
[deg] Pointing Dec	59.307424	59.32025050927832	CCD I3 on	O3	Y
[deg] Pointing Roll	121.055570	121.2528992197163	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	396011283.184000	396010182.27944	CCD S5 on	N	N
Observation start date	2010-07-20T11:06:57	2010-07-20T10:49:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	396026283.184000	396026966.1428	On-chip summing requested	N	N
Observation end date	2010-07-20T15:16:57	2010-07-20T15:29:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



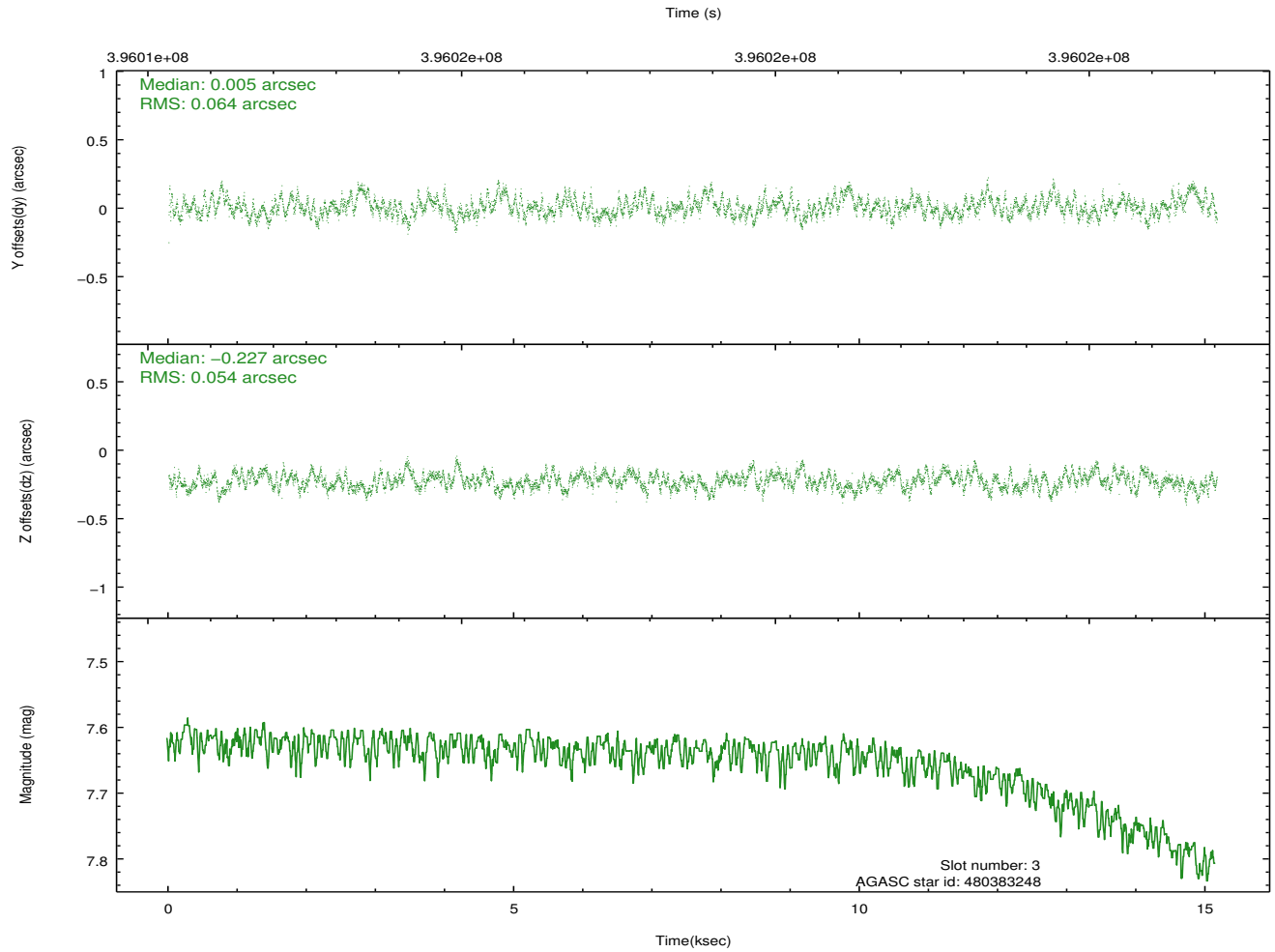
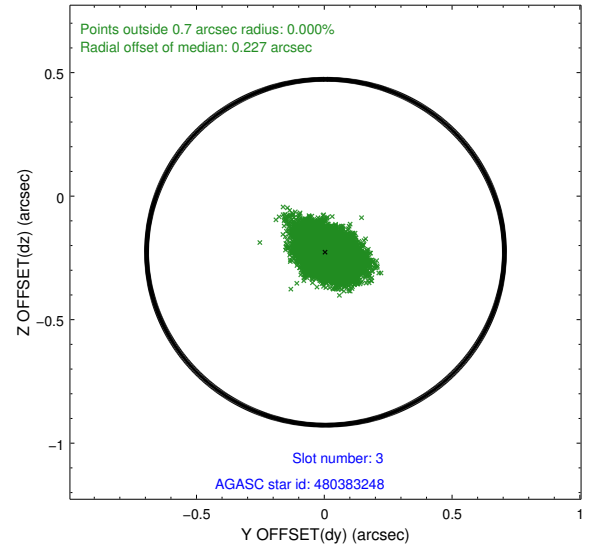
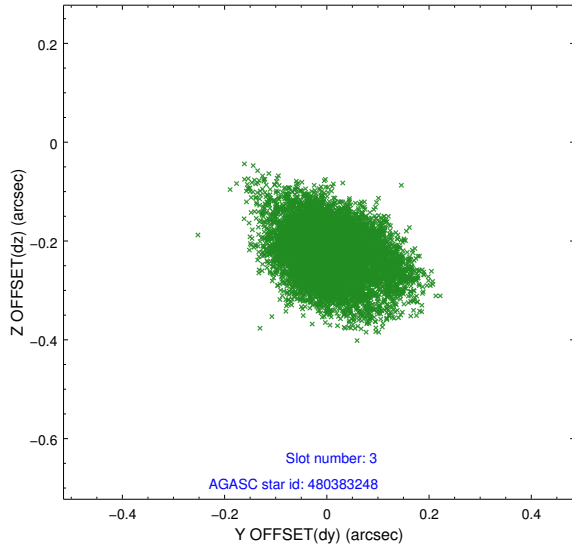


Slot Statistics

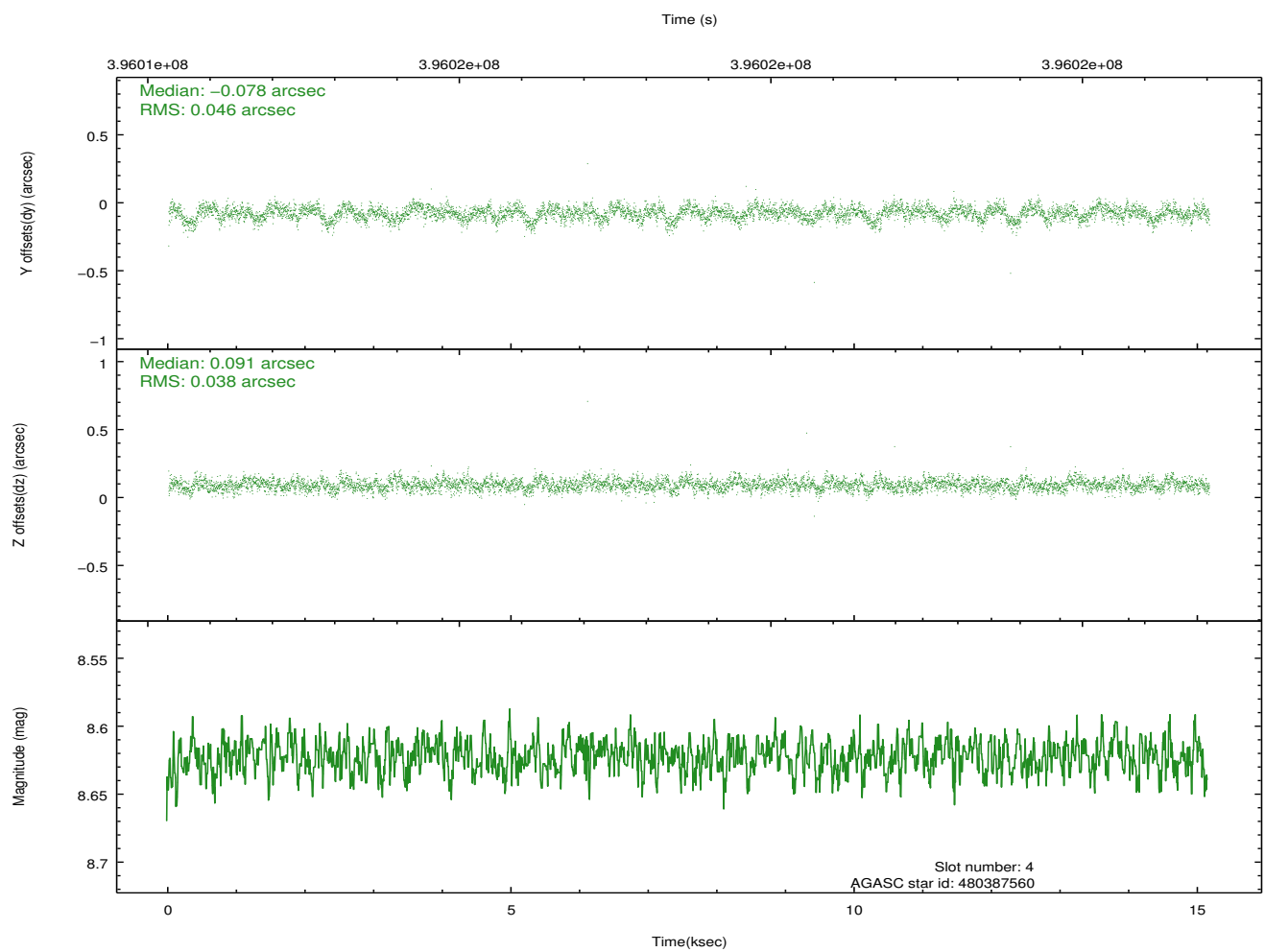
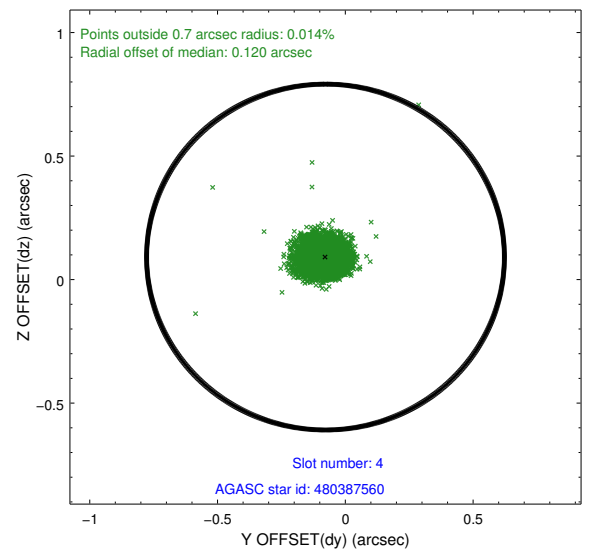
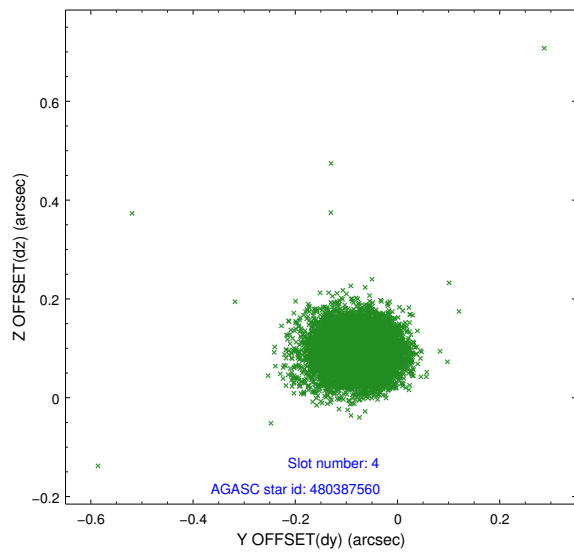
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	3699	-0.046	-0.007	0.007	0.011	0.000000	0.000000	-765.38	-1737.04
1	FID	ACIS-S-4	6.97	3698	0.141	0.024	0.007	0.013	0.000000	0.000000	2147.91	171.21
2	FID	ACIS-S-5	7.00	3699	-0.126	-0.009	0.008	0.015	0.000000	0.000000	-1817.96	165.12
3	GUIDE	480383248	7.64	7396	0.005	-0.227	0.089	0.146	4.828098	59.139041	-264.98	732.64
4	GUIDE	480387560	8.62	7393	-0.078	0.091	0.062	0.101	3.486116	59.428342	1921.95	2279.41
5	GUIDE	480388656	8.88	7391	0.295	0.281	0.085	0.134	6.593066	59.181927	-1785.63	-2150.85
6	GUIDE	526276704	9.30	7376	-0.161	-0.133	0.117	0.198	5.471408	60.121554	2163.36	-2093.06
7	GUIDE	480388568	8.31	7392	-0.064	-0.013	0.061	0.098	3.952528	59.440255	1503.10	1533.75

2.4 Star Slots

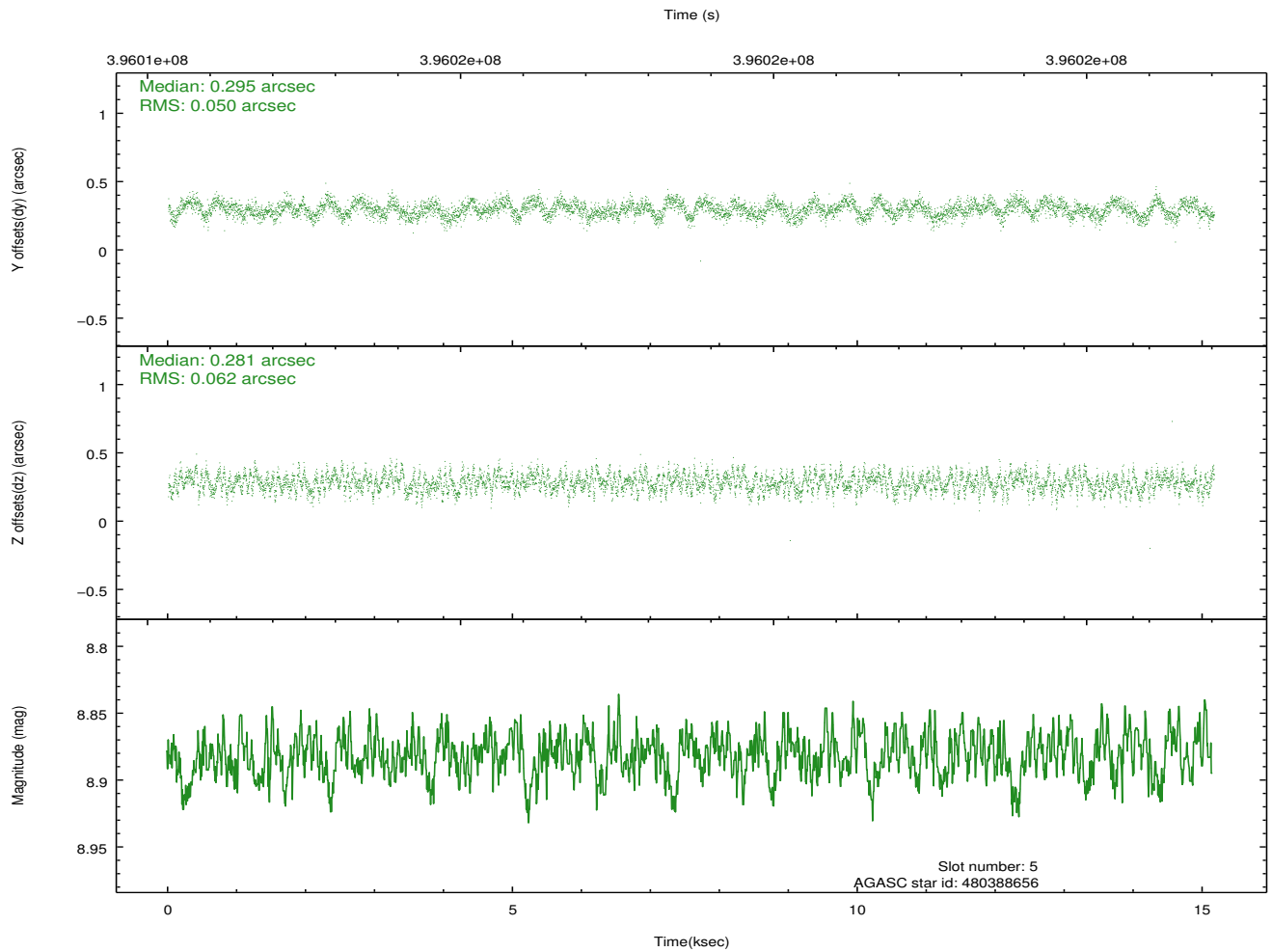
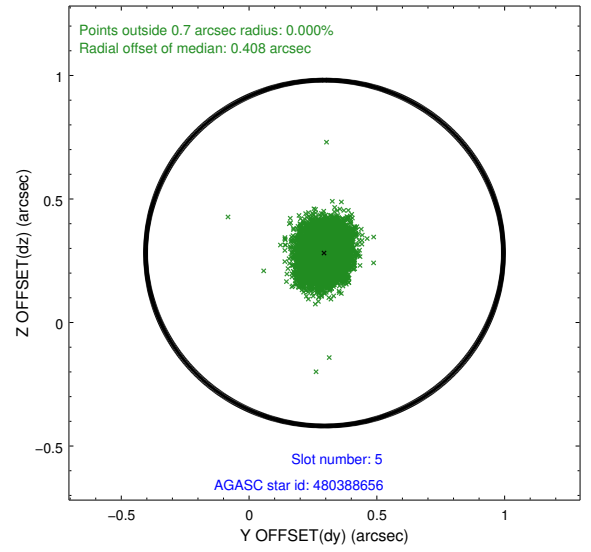
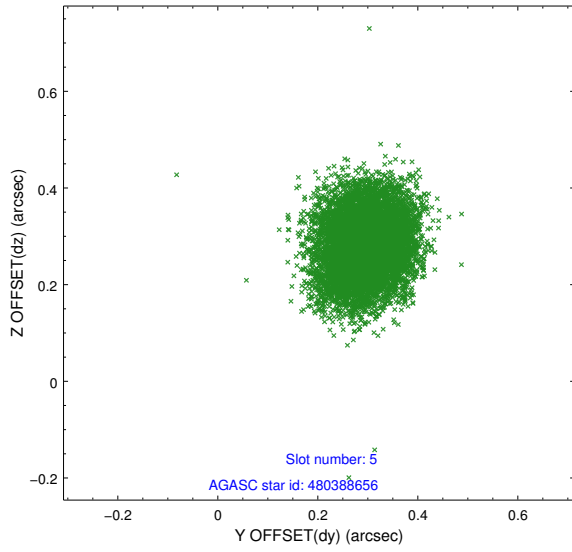
2.4.1 Slot 3



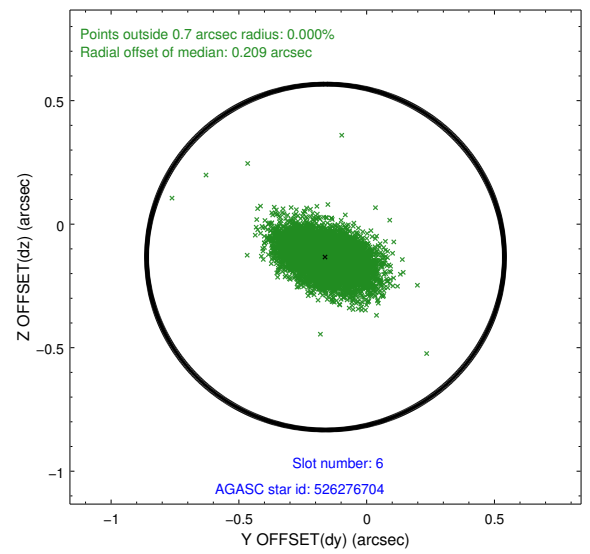
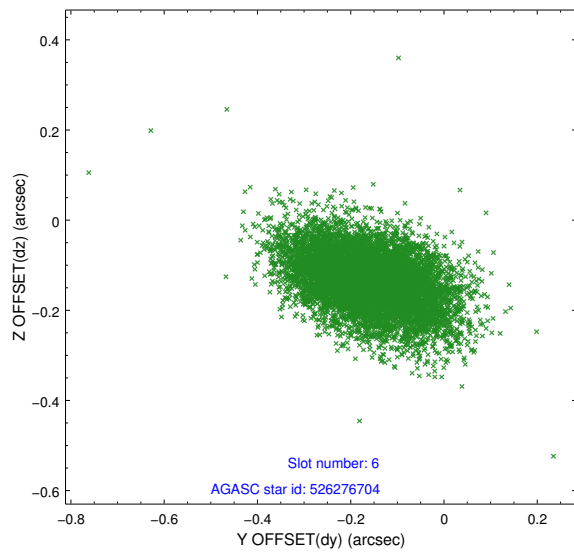
2.4.2 Slot 4



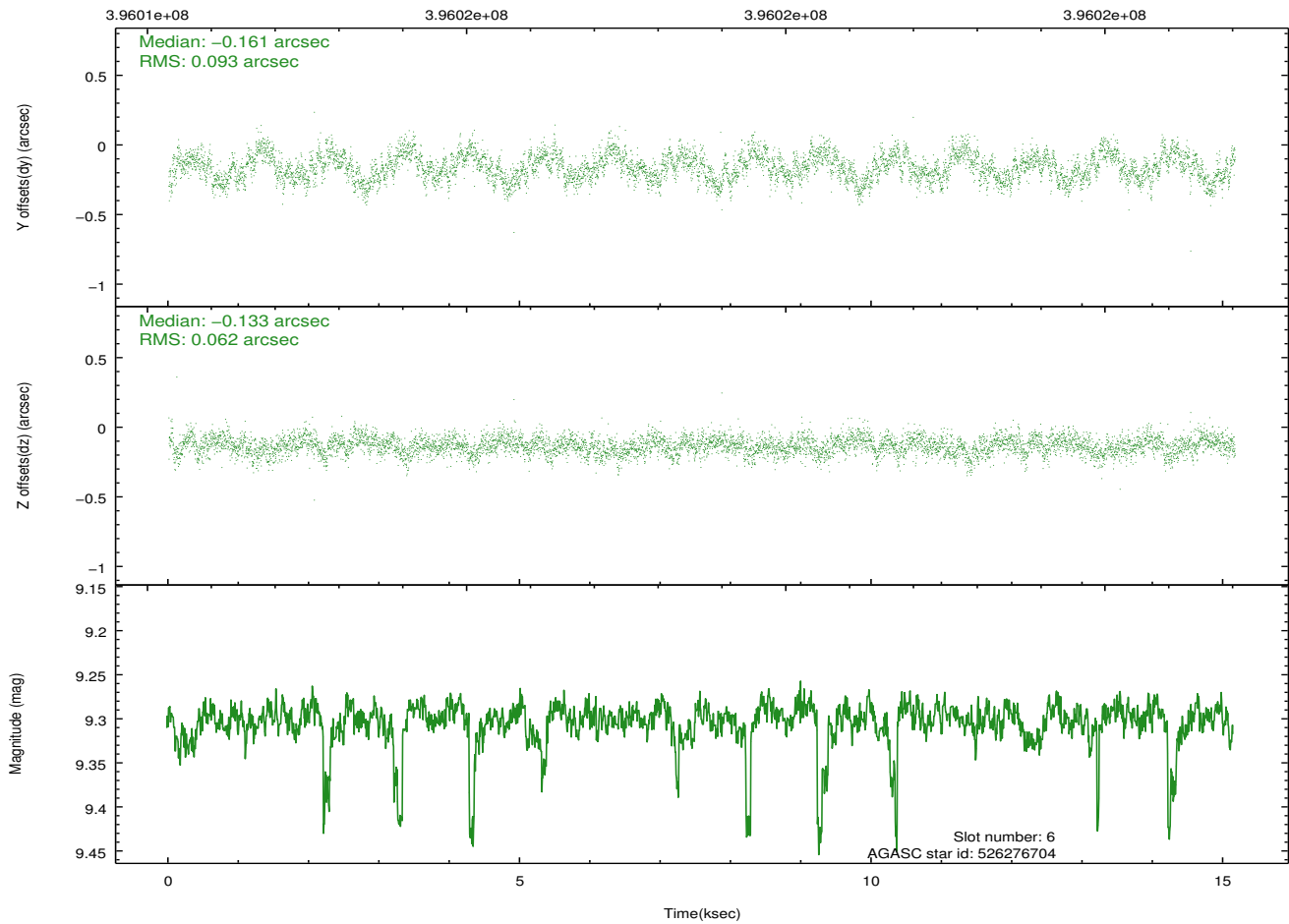
2.4.3 Slot 5



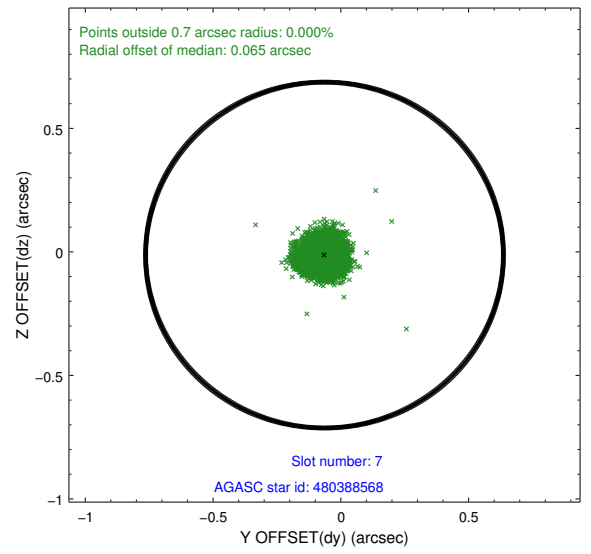
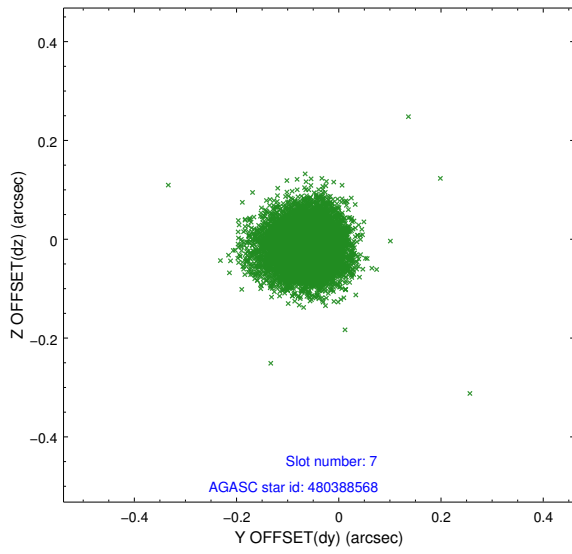
2.4.4 Slot 6



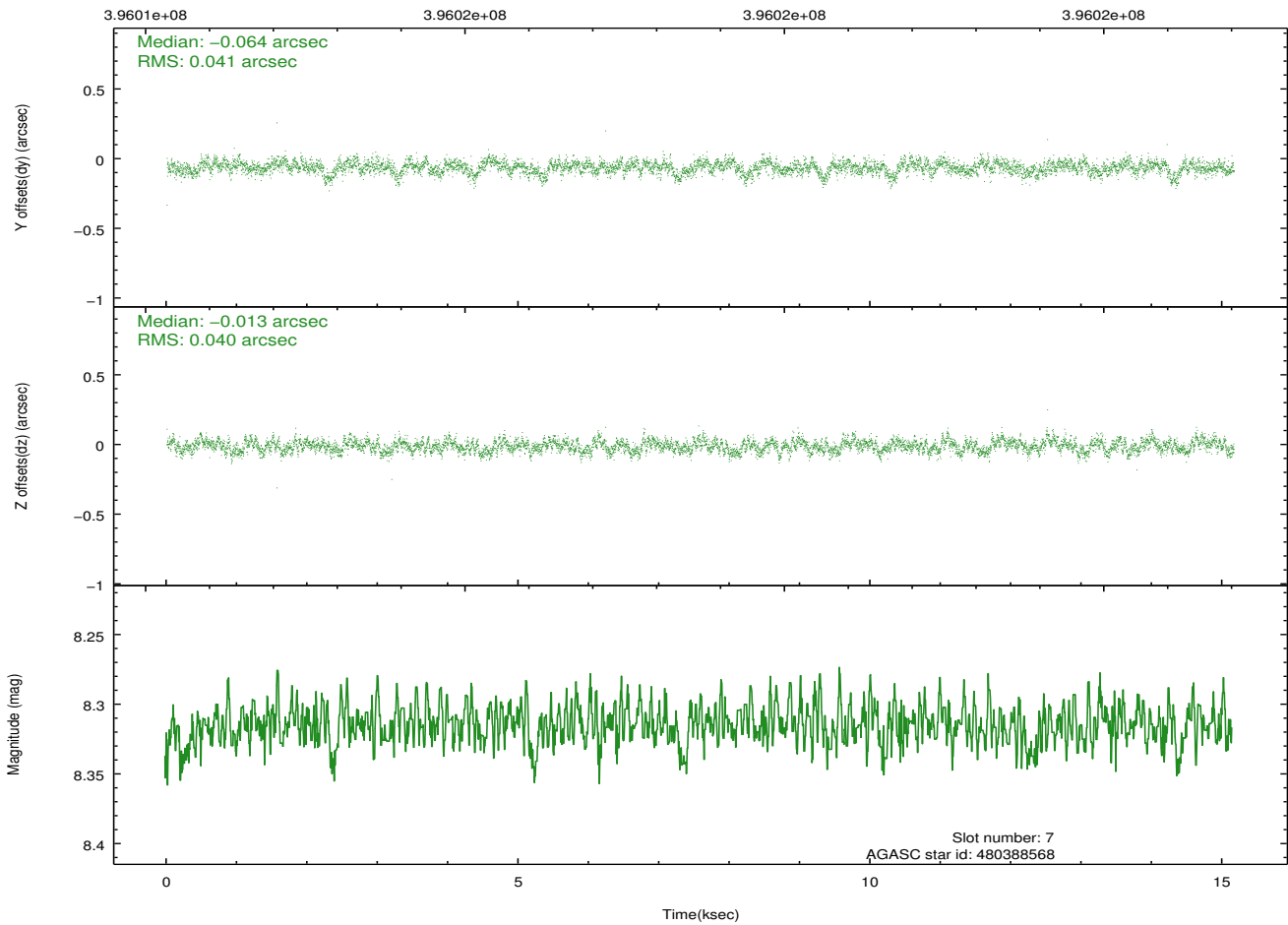
Time (s)



2.4.5 Slot 7

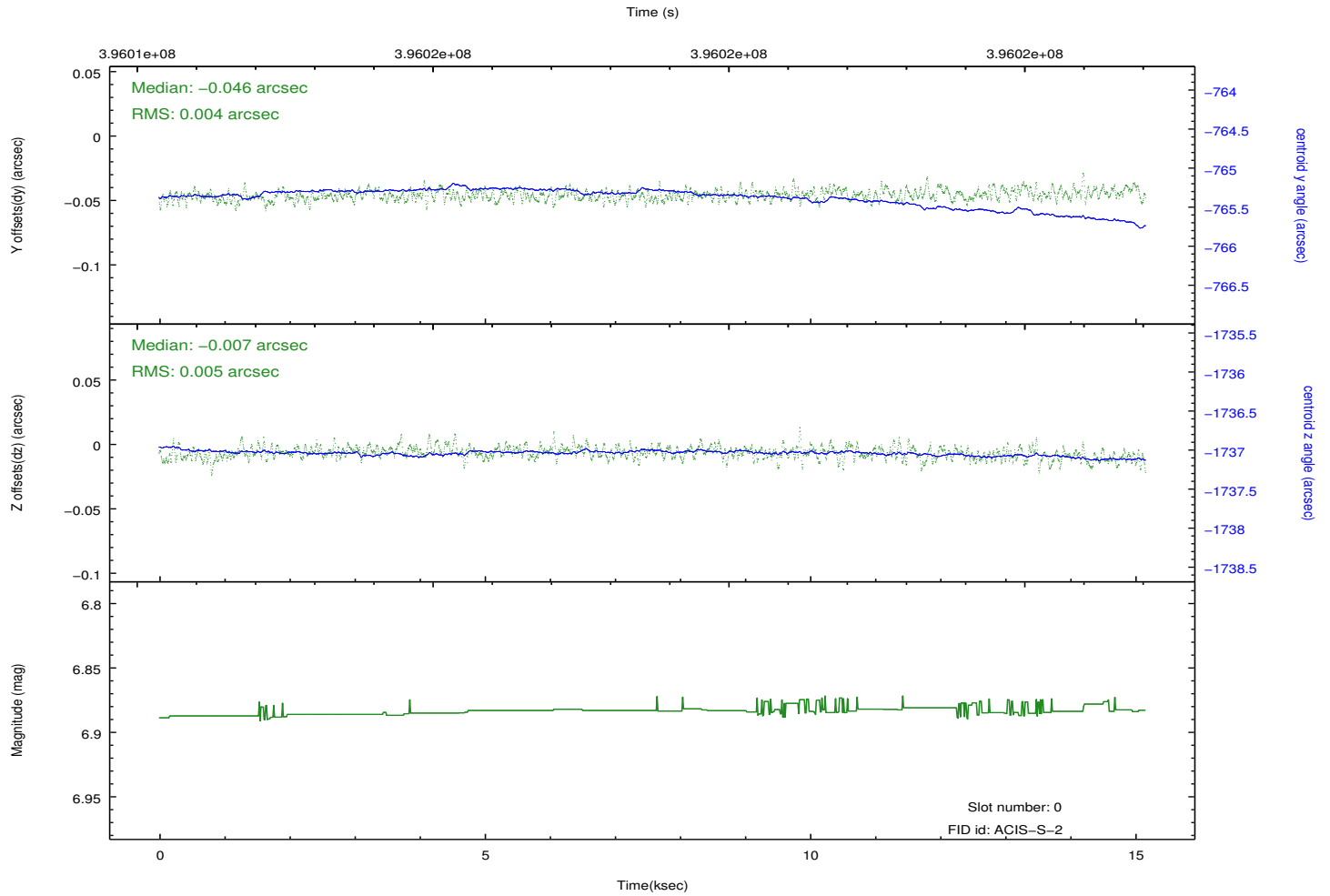
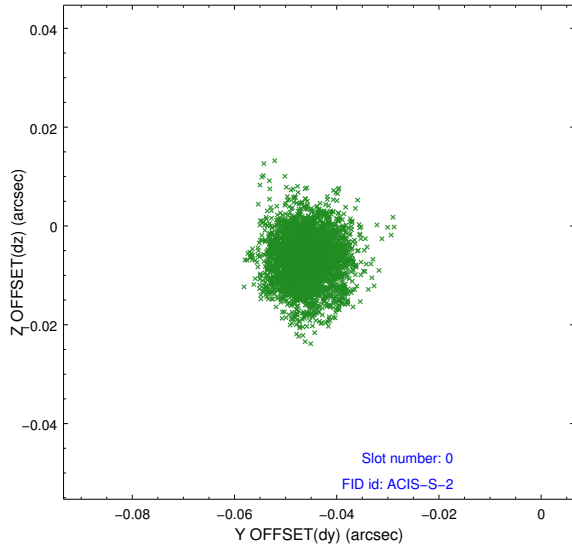


Time (s)

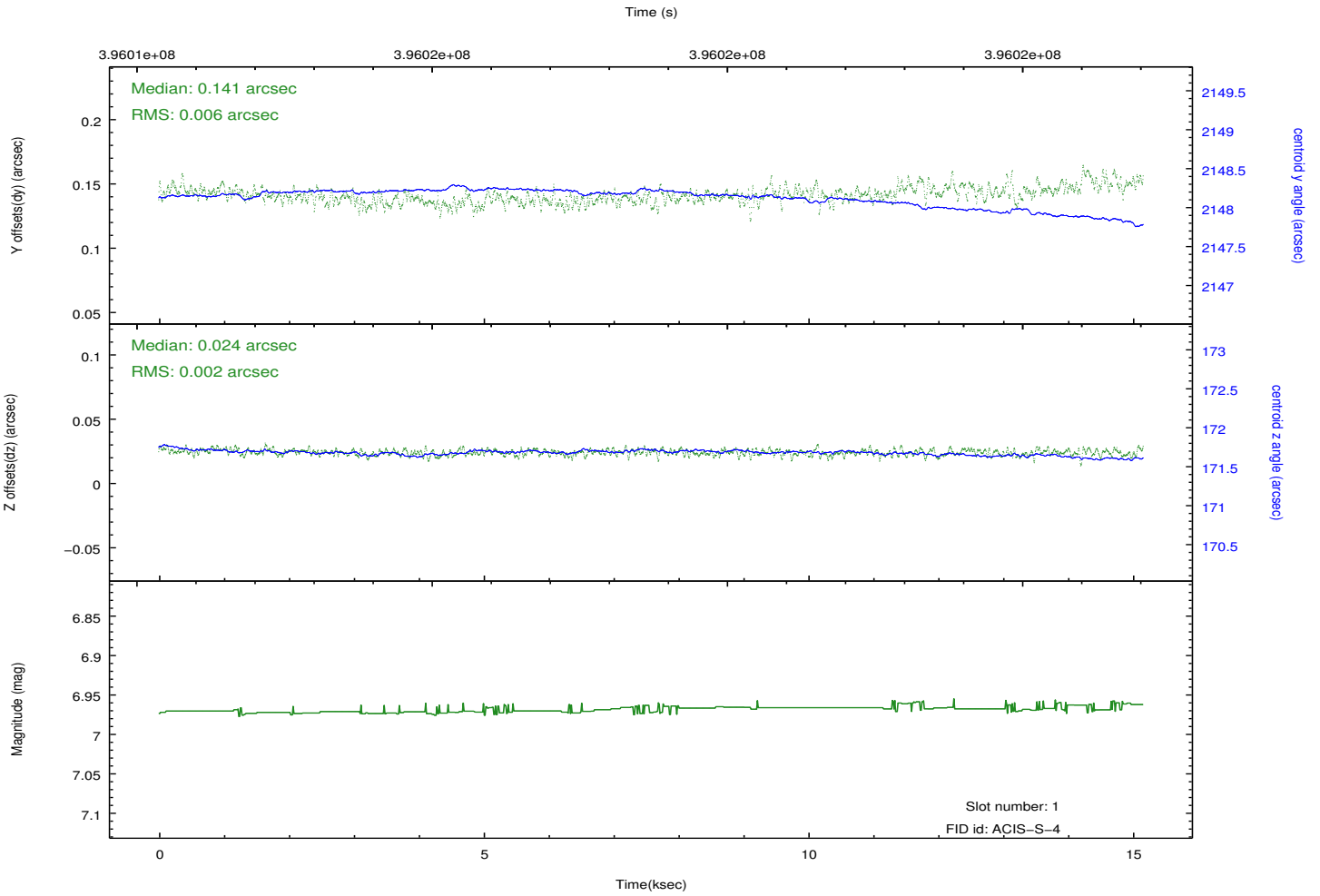
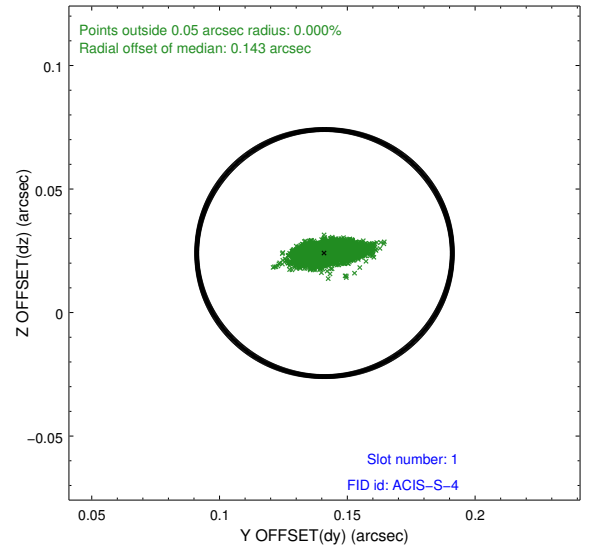
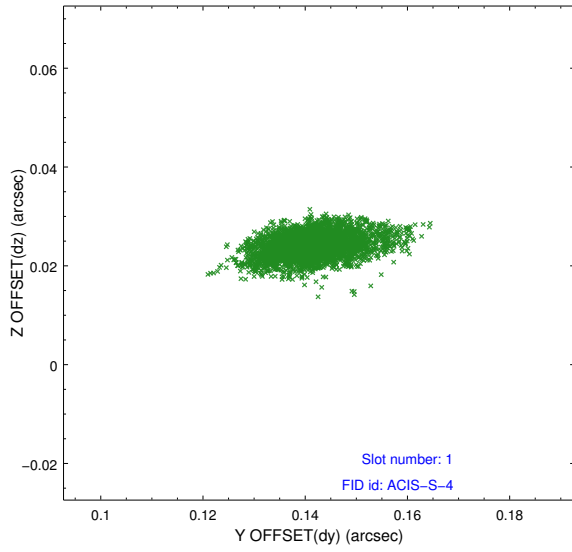


2.5 FID Slots

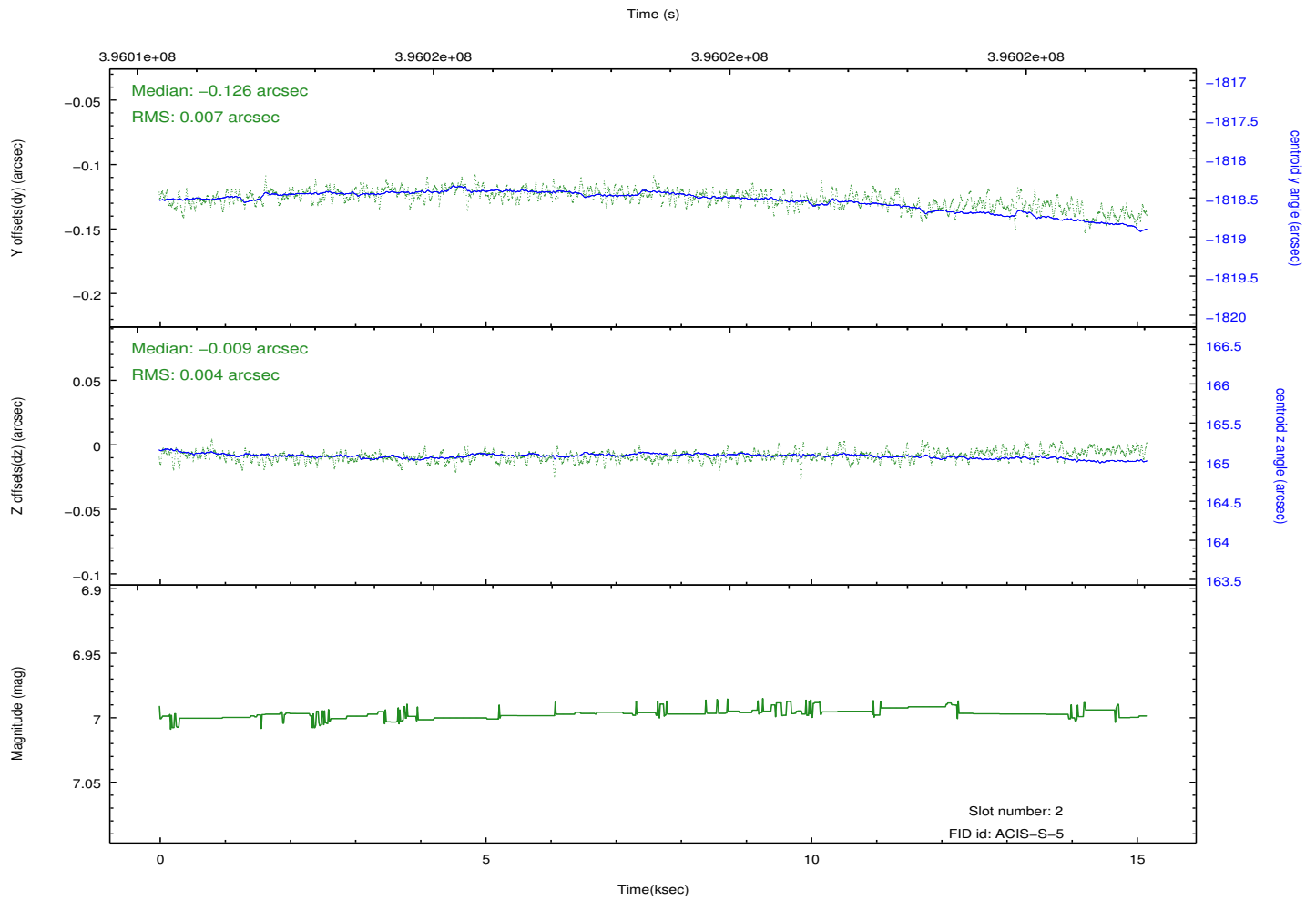
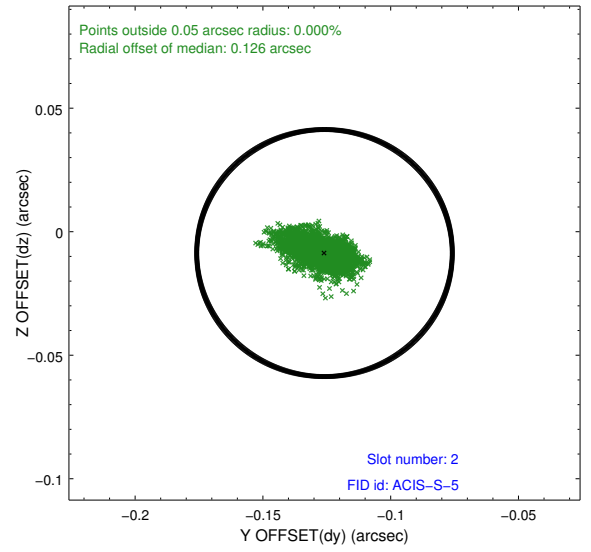
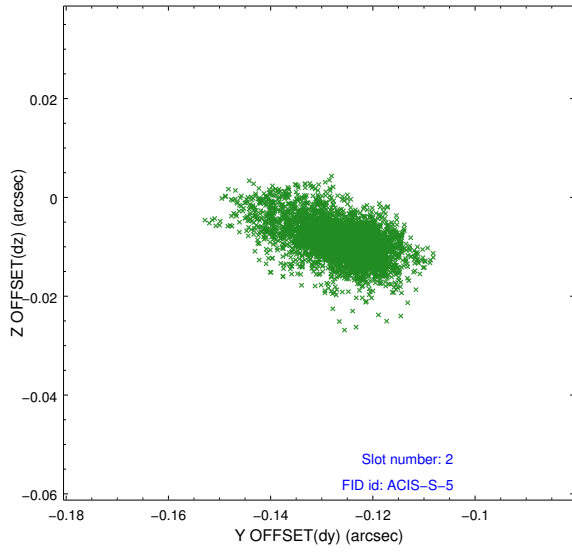
2.5.1 Slot 0



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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.0491597054

A.2 Comments