

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3133 - L2 Version 3
Chandra X-Ray Center

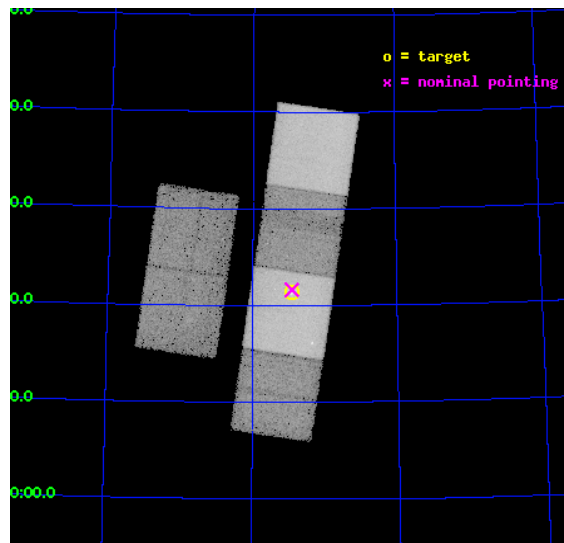
L2 Processing Date : Oct 15 2012

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1 Front

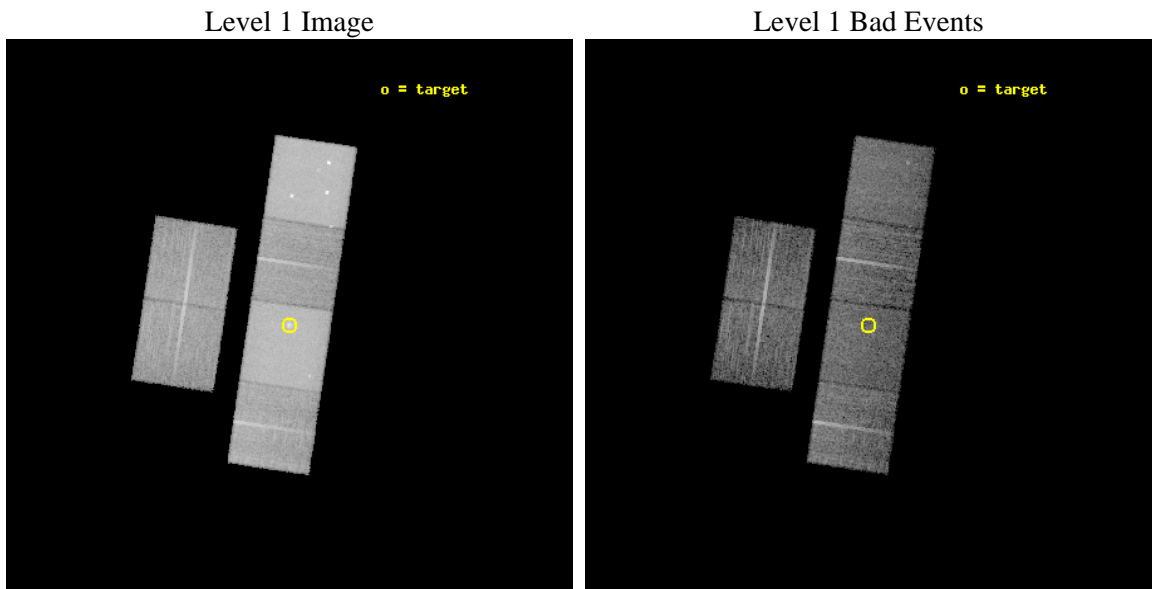
seq_num	700572	Sequence number
obs_id	3133	Observation id
title	SEARCH FOR AN INTERMEDIATE MASS BLACK HOLE IN THE STARBURST GALAXY NGC2146	Proposal title
observer	Dr Hironori Matsumoto	Principal investigator
object	NGC2146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	94.655417	Observer's specified target RA [deg]
dec_targ	78.356556	Observer's specified target Dec [deg]
ra_nom	94.660854454509	Nominal RA [deg]
dec_nom	78.360755667931	Nominal Dec [deg]
roll_nom	98.432959844296	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9957.1095086634	Sum of GTIs [s]
livetime	9831.0265926132	Livetime [s]
ontime2	9957.1505486667	Sum of GTIs [s]
ontime3	9956.9863886535	Sum of GTIs [s]
ontime5	9957.0684686601	Sum of GTIs [s]
ontime6	9957.0274286568	Sum of GTIs [s]
ontime7	9957.1095086634	Sum of GTIs [s]
ontime8	9953.7042787373	Sum of GTIs [s]
l2events	315007	Number of level 2 events



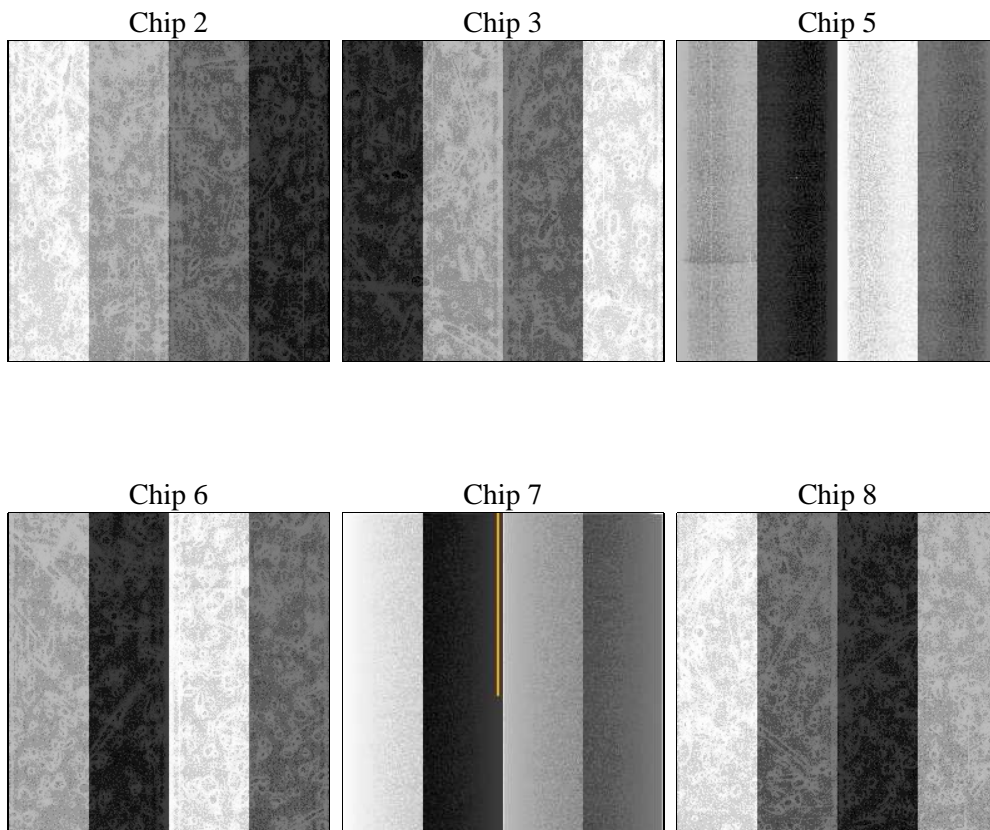
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9957.1095086634	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	9957.1505486667	Sum of GTIs [s]
date	2012-10-15T13:03:38	Date and time of file creation	ontime3	9956.9863886535	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	9957.0684686601	Sum of GTIs [s]
			ontime6	9957.0274286568	Sum of GTIs [s]
			ontime7	9957.1095086634	Sum of GTIs [s]
			ontime8	9953.7042787373	Sum of GTIs [s]
			l1events	697463	Number of level 1 events

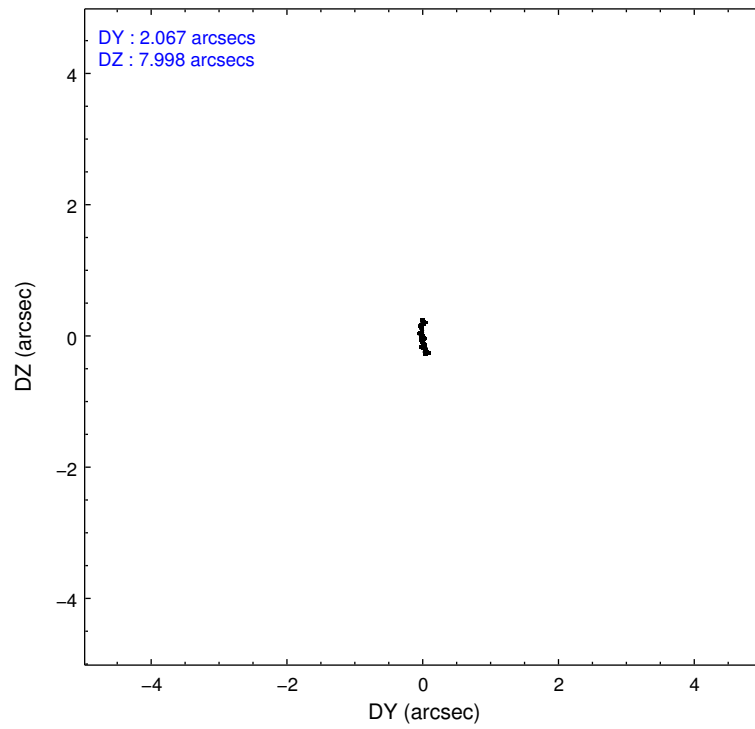
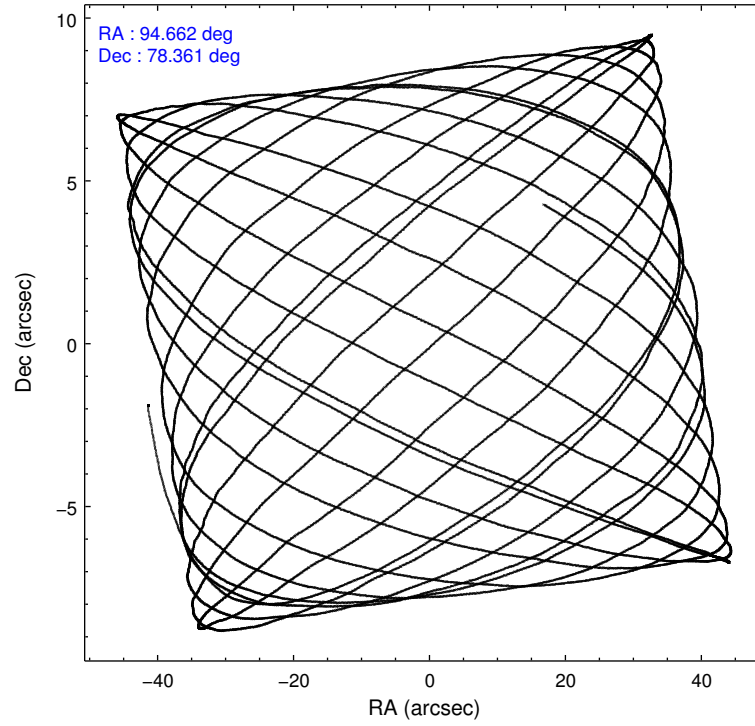
2.1.4 Events

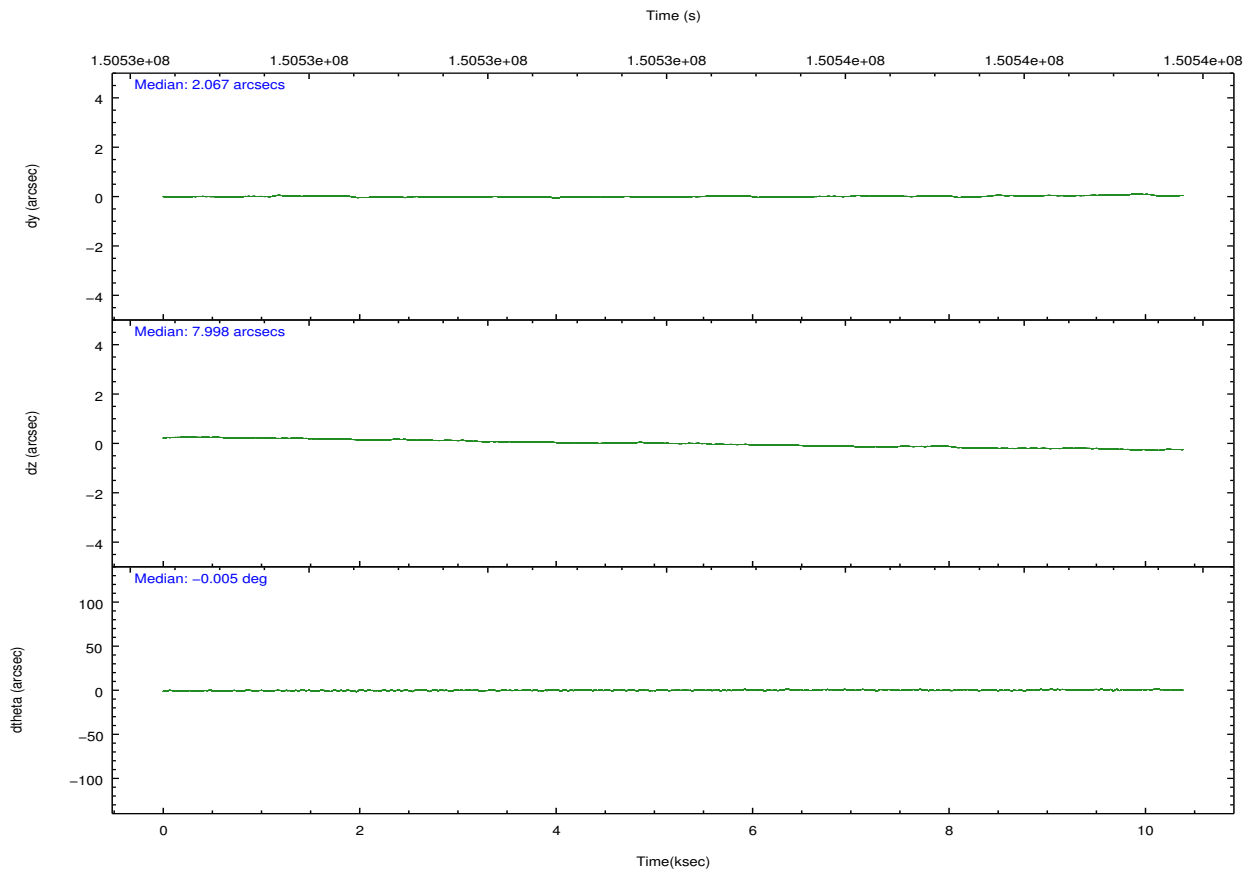
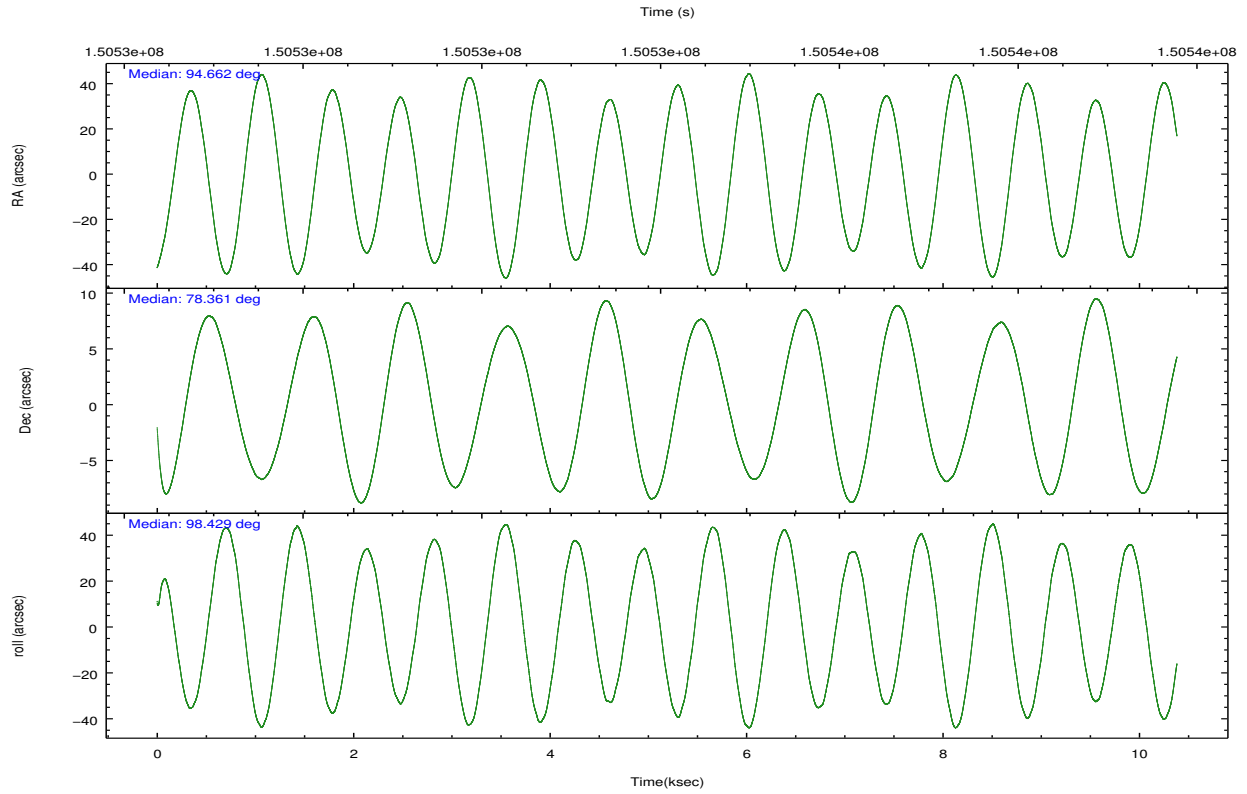
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	80000	78167	182333	84356	168674	103933	grade 0 events	13770	13697	20514	17219	12760	20076
rejected events	59331	57318	59811	58266	53096	68216		17%	17%	11%	20%	7%	19%
rejected %	74%	73%	32%	69%	31%	65%	grade 1 events	82	84	344	88	79	140
								0%	0%	0%	0%	0%	0%
							grade 2 events	3054	3228	34387	4417	20829	6134
								3%	4%	18%	5%	12%	5%
							grade 3 events	1053	1057	6681	1128	9215	2277
								1%	1%	3%	1%	5%	2%
							grade 4 events	1037	1082	6491	1126	9031	2109
								1%	1%	3%	1%	5%	2%
							grade 5 events	2541	2823	8178	2901	8737	3831
								3%	3%	4%	3%	5%	3%
							grade 6 events	1794	1820	54569	2242	63860	5164
								2%	2%	29%	2%	37%	4%
							grade 7 events	56669	54376	51169	55235	44163	64202
								70%	69%	28%	65%	26%	61%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	94.745915	94.66085445450877	Subarray requested	NONE	NONE
[deg] Pointing Dec	78.339657	78.3607556679309	Alternating exposures requested	N	N
[deg] Pointing Roll	98.193054	98.43295984429589	[s] Primary exposure time	0.000000	3.2
[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)	150529060.184000	150528301.35344			
Observation start date	2002-10-09T05:36:36	2002-10-09T05:25:01			
[s] Observation end time (MET)	150539260.184000	150540480.91644			
Observation end date	2002-10-09T08:26:36	2002-10-09T08:48:00			
Read mode	TIMED	TIMED			

2.3 Aspect



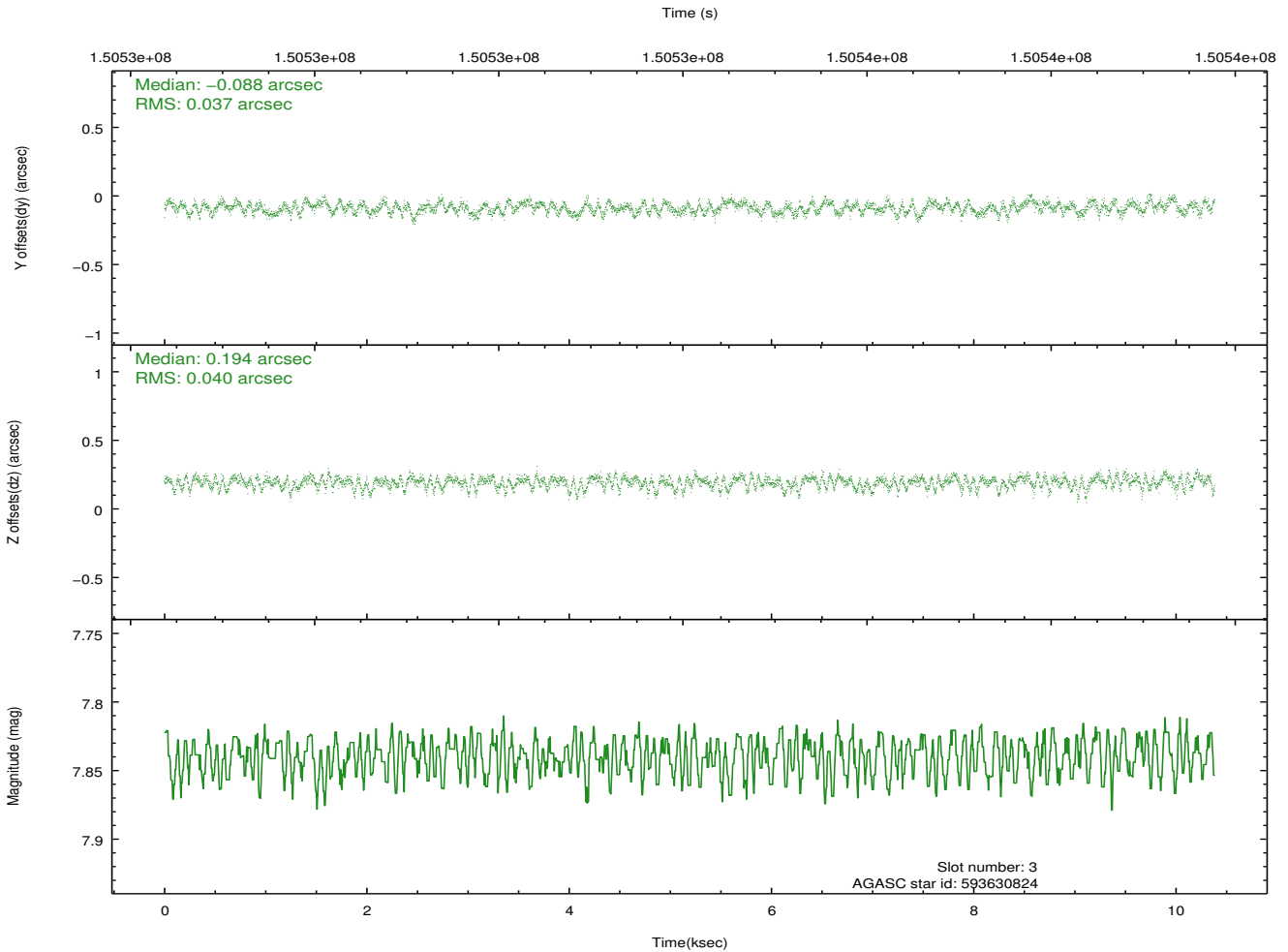
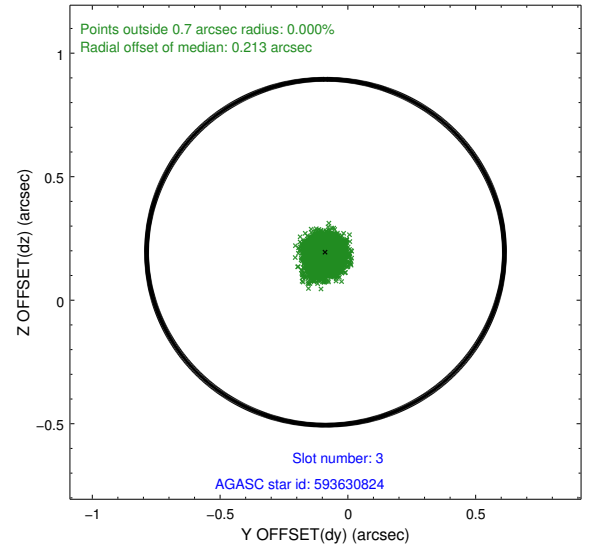
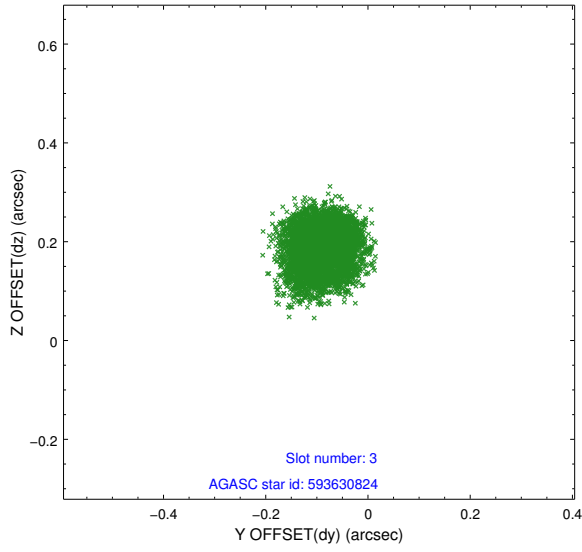


Slot Statistics

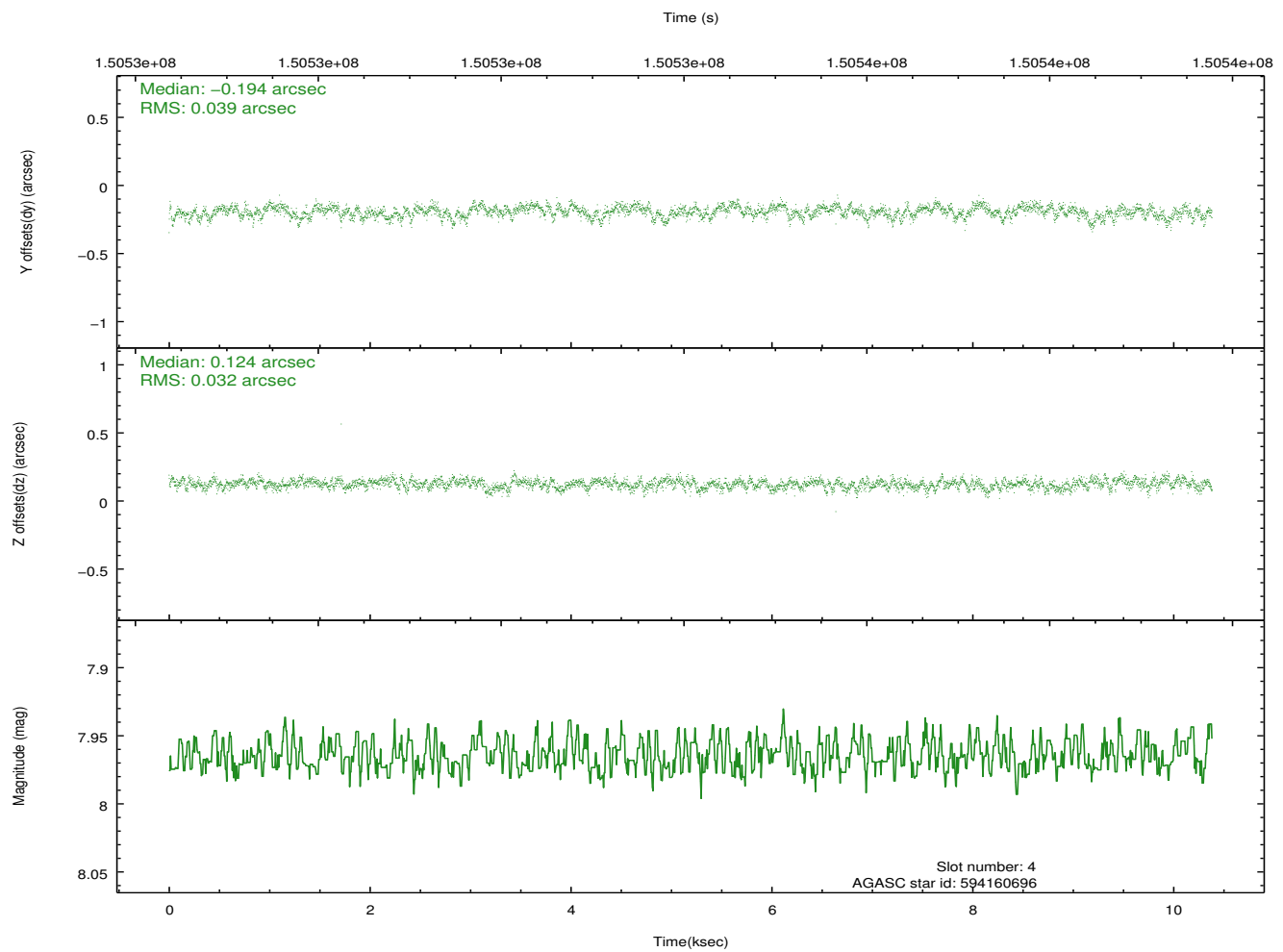
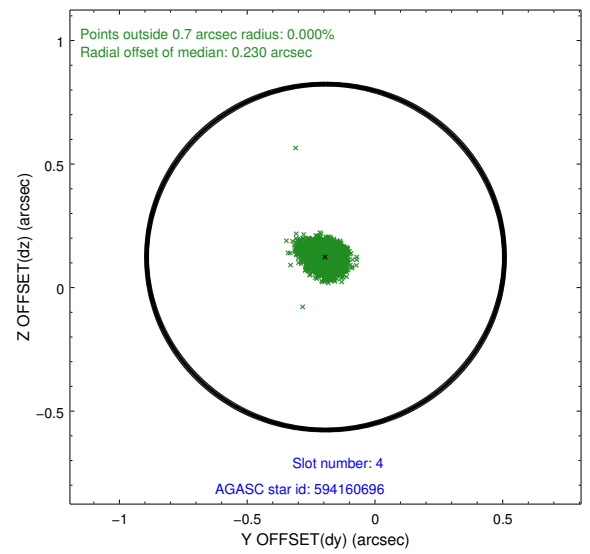
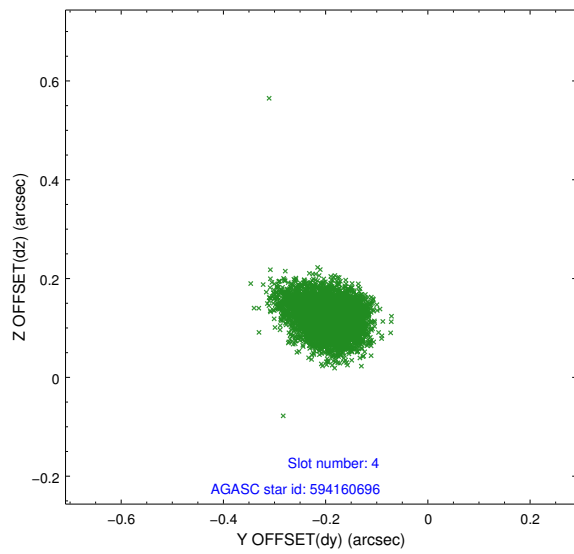
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	2533	0.036	-0.022	0.010	0.018	0.000000	0.000000	941.35	-1724.85
1	FID	ACIS-S-5	7.24	2533	-0.011	0.045	0.007	0.015	0.000000	0.000000	-1807.37	172.30
2	FID	ACIS-S-6	7.35	2533	-0.046	-0.011	0.010	0.017	0.000000	0.000000	406.32	816.74
3	GUIDE	593630824	7.84	5065	-0.088	0.194	0.058	0.092	97.139560	77.959365	-1575.51	-1588.08
4	GUIDE	594160696	7.97	5066	-0.194	0.124	0.053	0.087	96.554720	78.795378	1461.81	-1488.13
5	GUIDE	593628560	8.26	5066	0.052	-0.192	0.070	0.111	92.260818	78.027017	-811.09	1991.43
6	GUIDE	593631272	8.36	5066	0.314	-0.031	0.069	0.109	97.229274	77.907214	-1769.04	-1636.16
7	GUIDE	594155200	9.10	5063	-0.084	-0.088	0.070	0.113	91.887725	78.921956	2403.19	1651.08

2.4 Star Slots

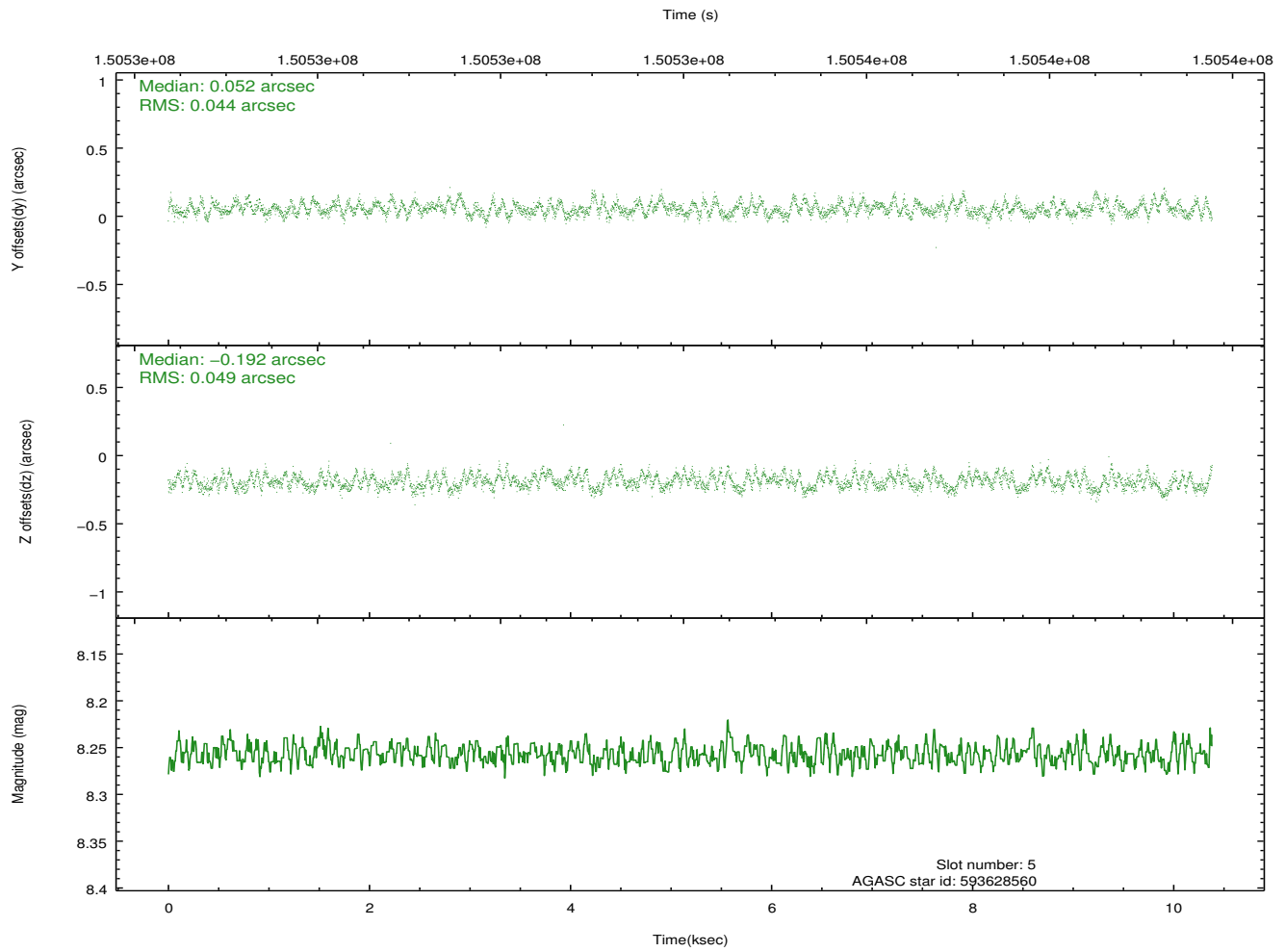
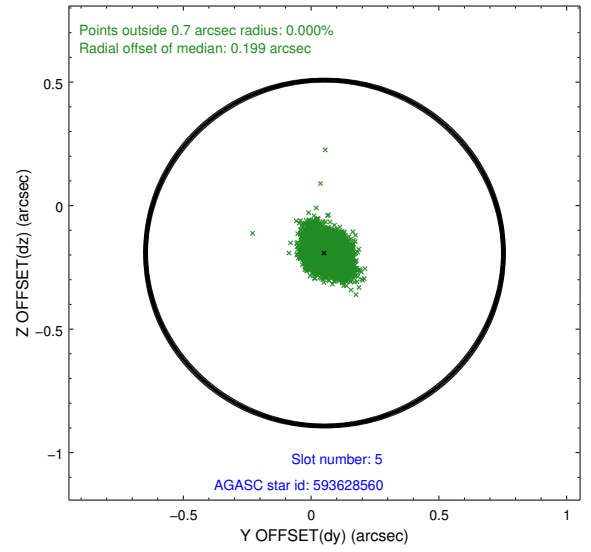
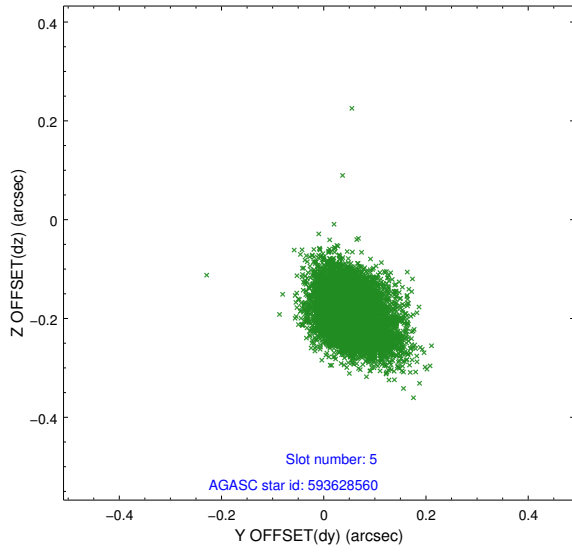
2.4.1 Slot 3



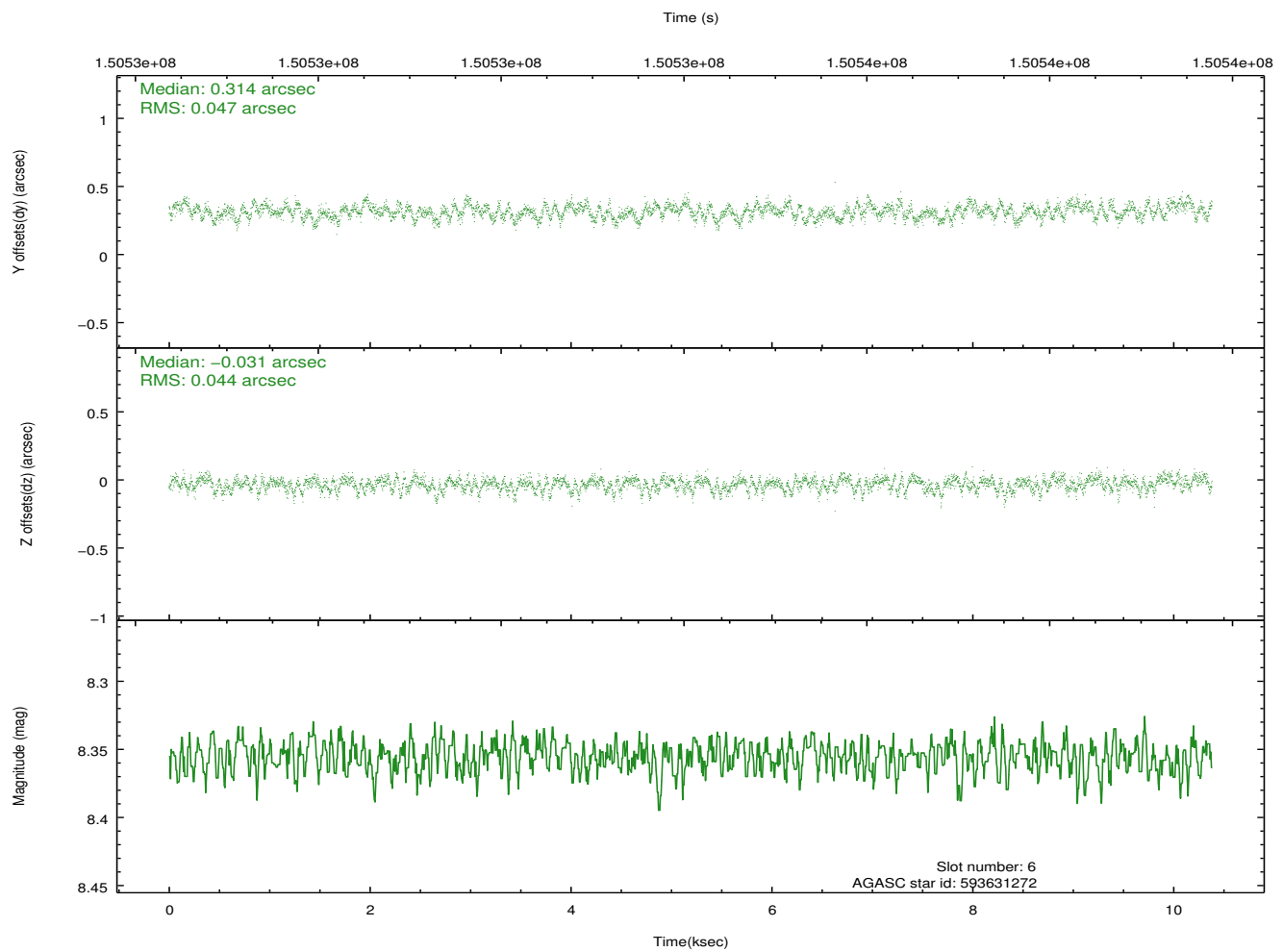
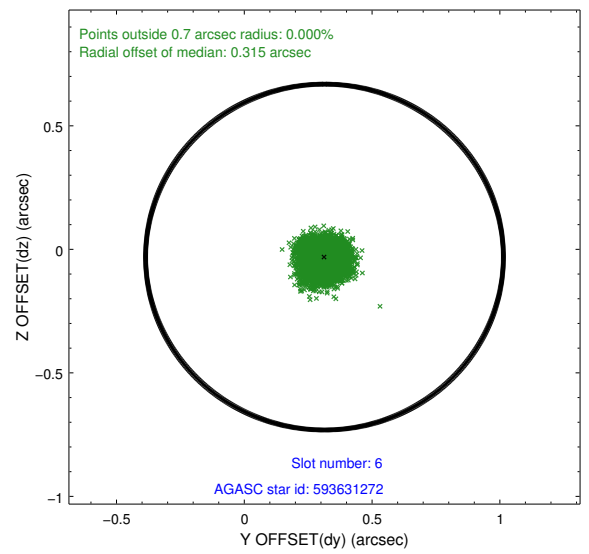
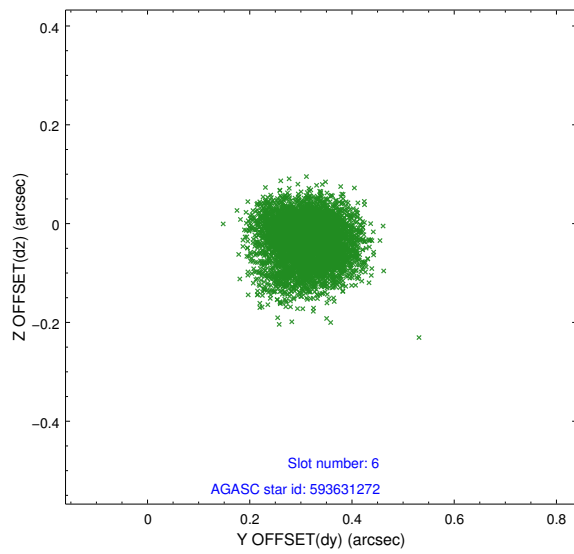
2.4.2 Slot 4



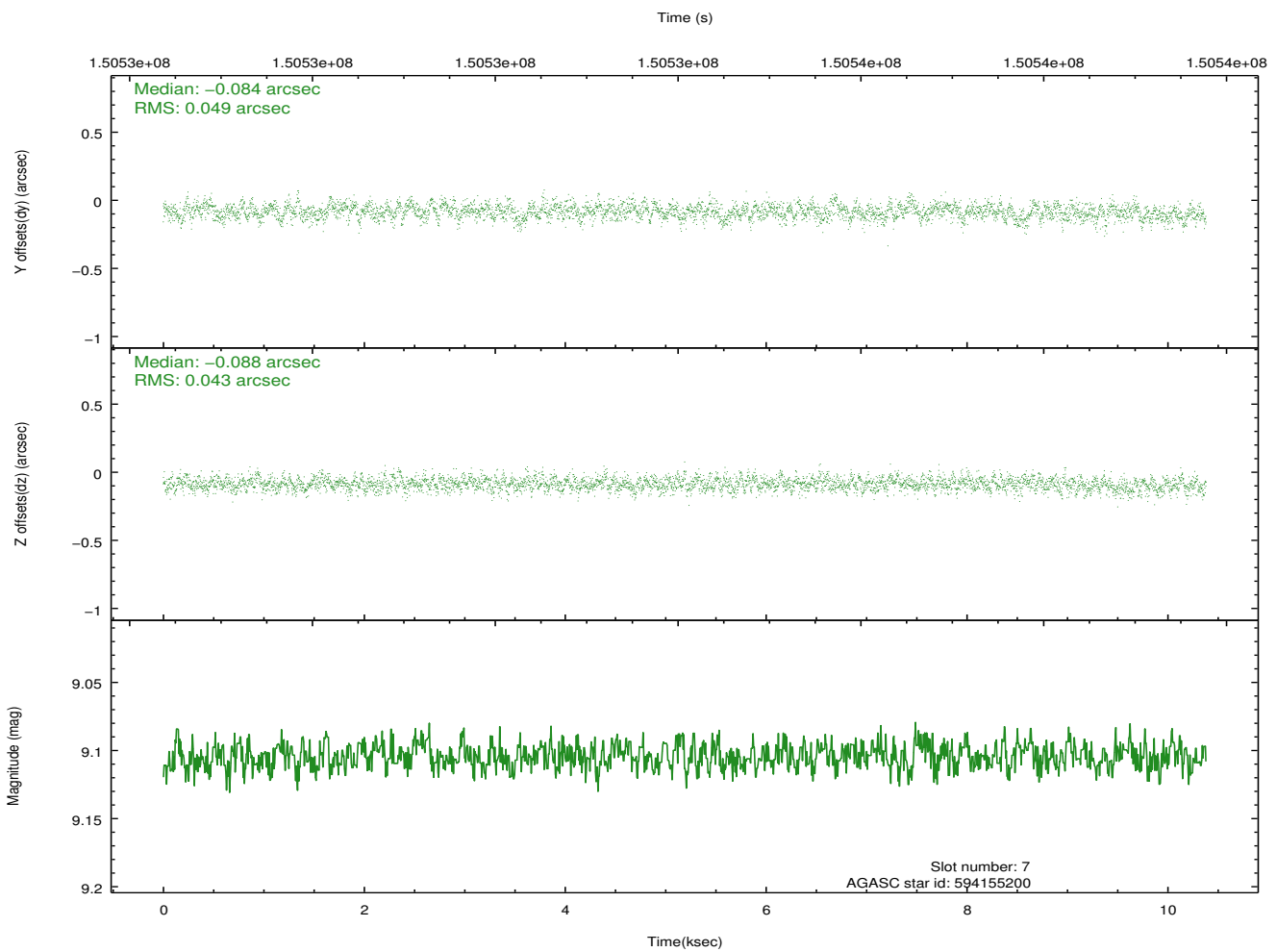
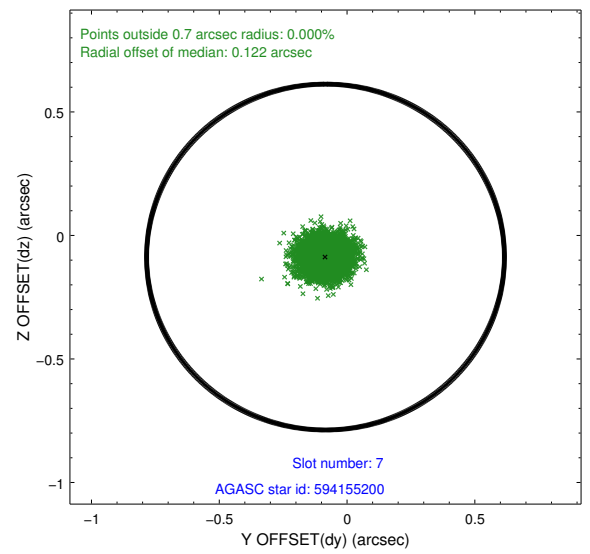
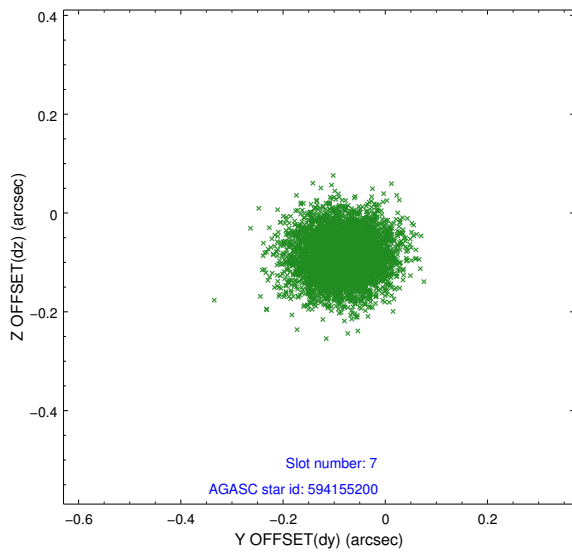
2.4.3 Slot 5



2.4.4 Slot 6

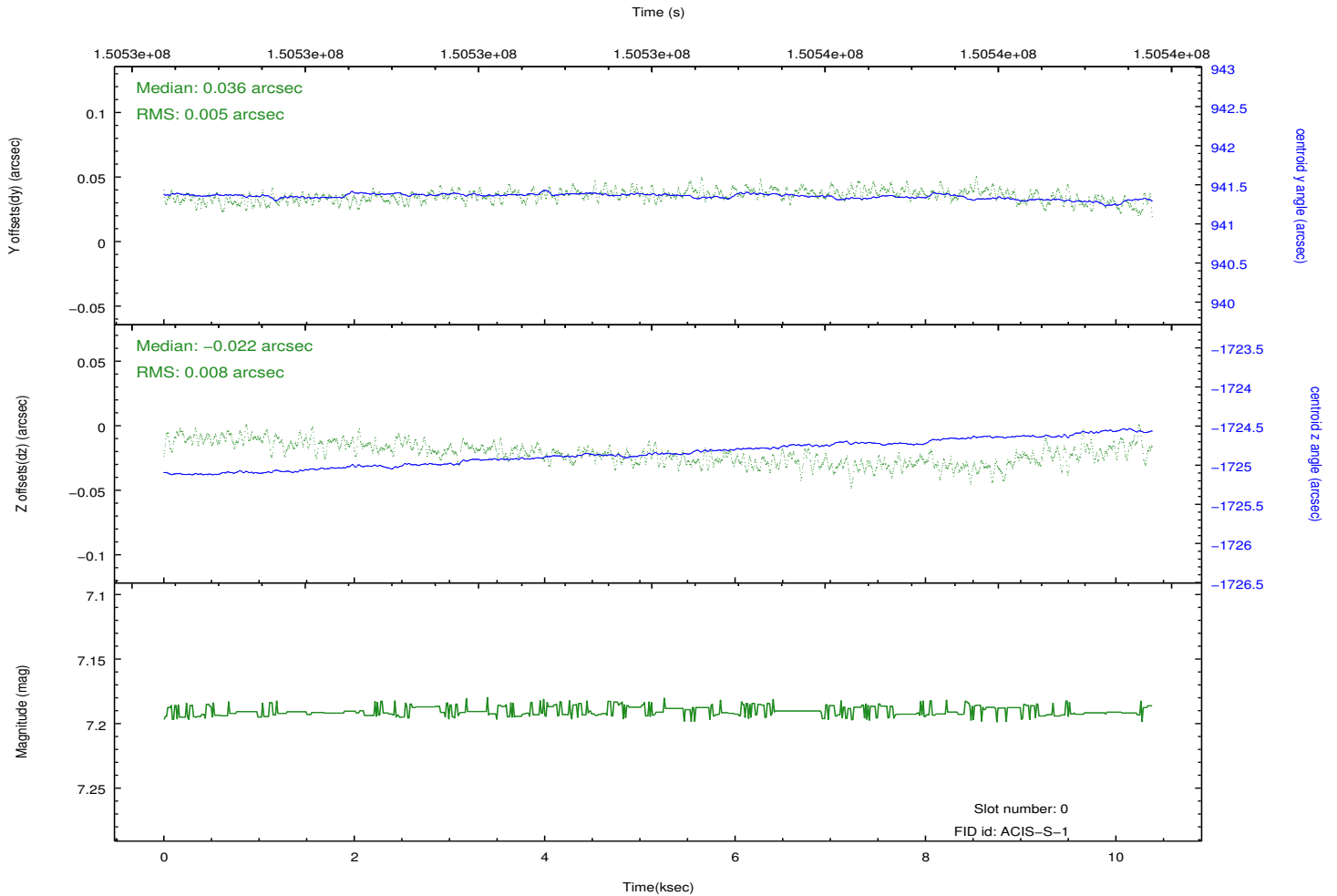
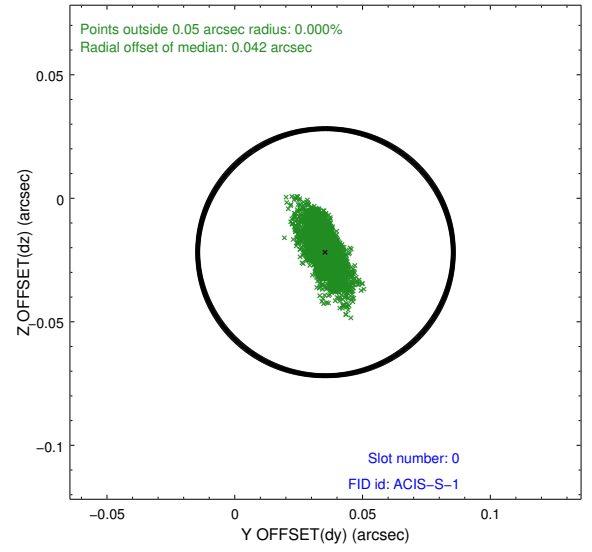
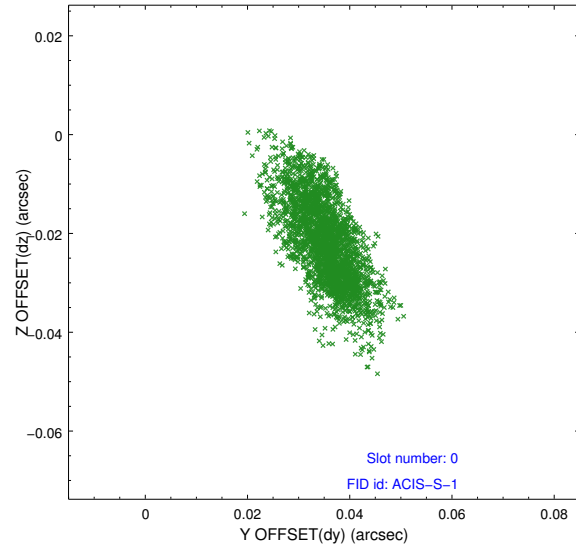


2.4.5 Slot 7

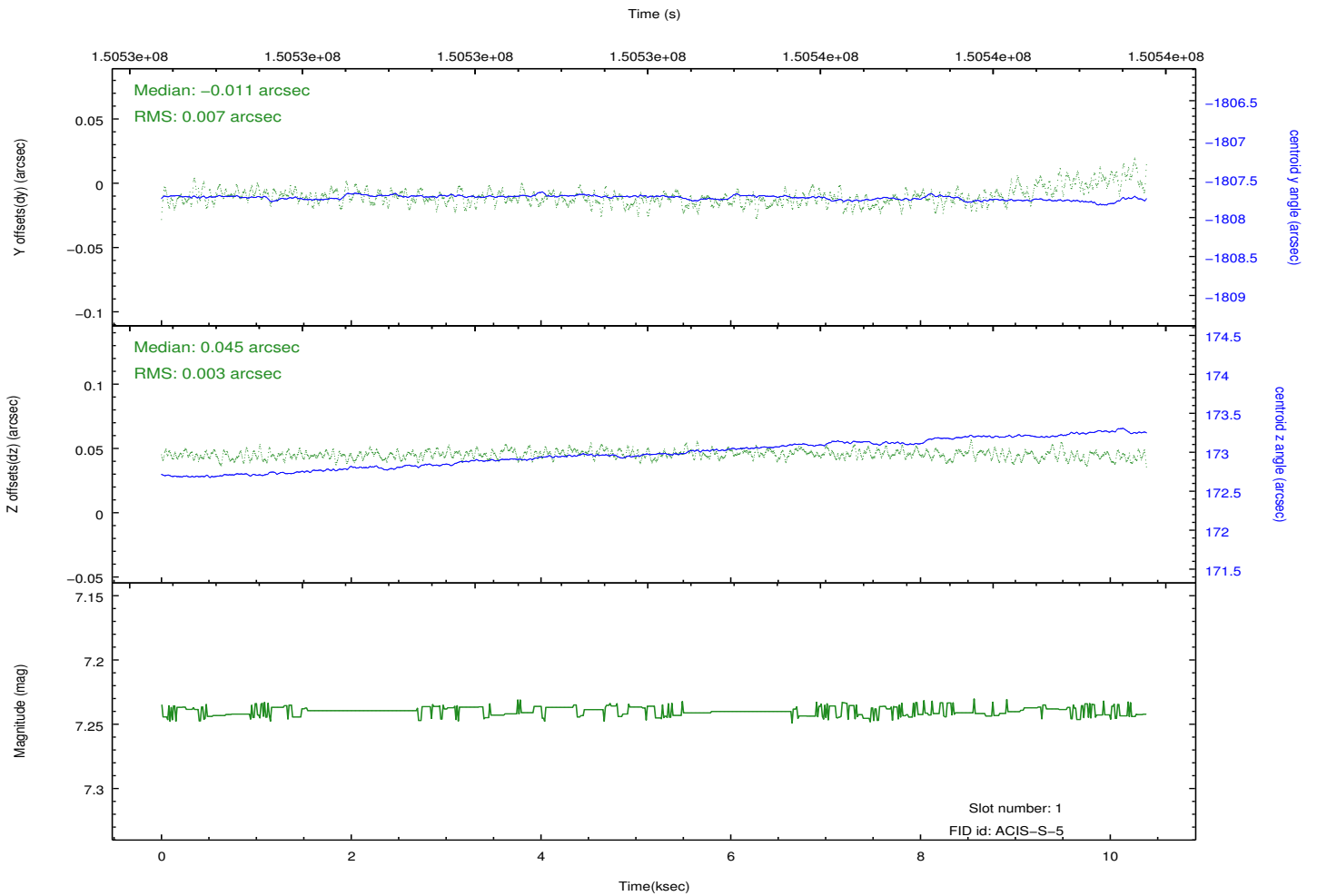
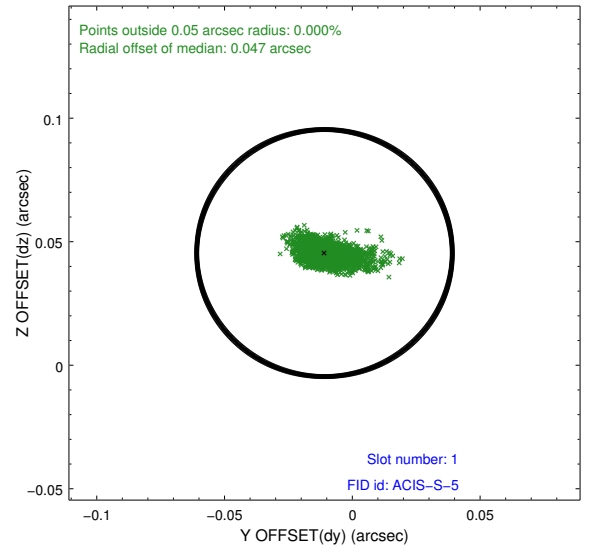
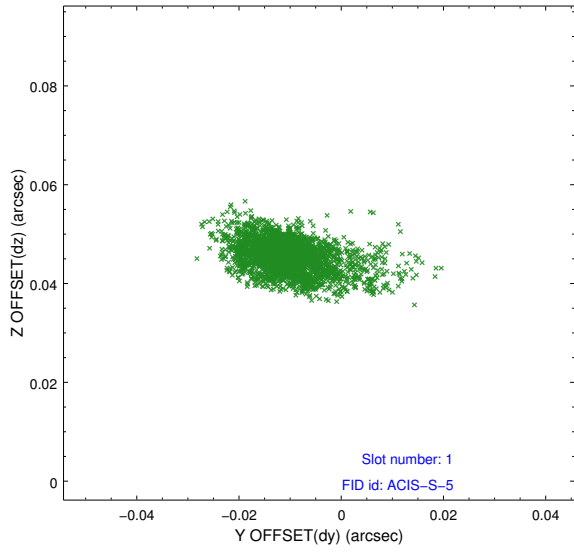


2.5 FID Slots

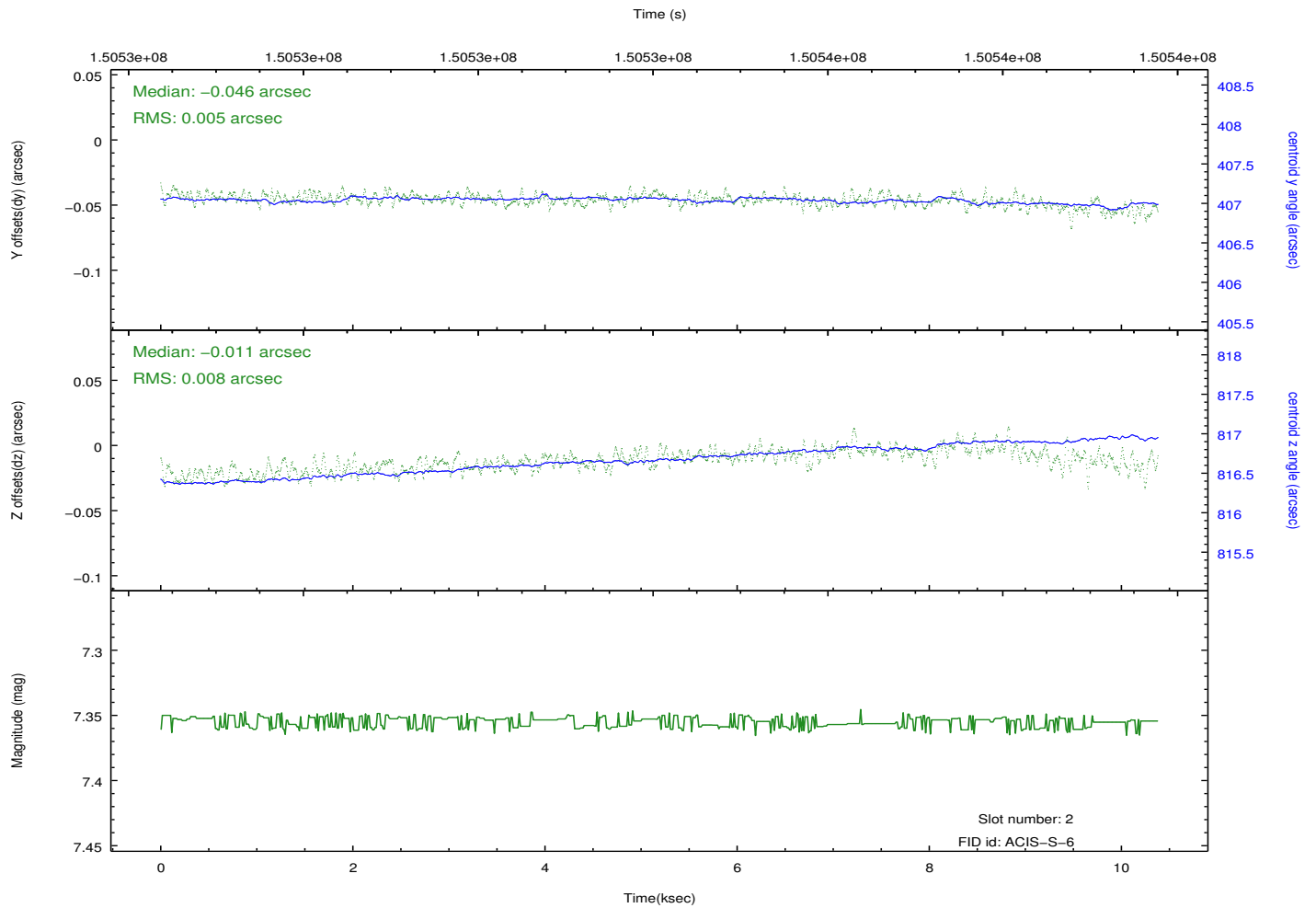
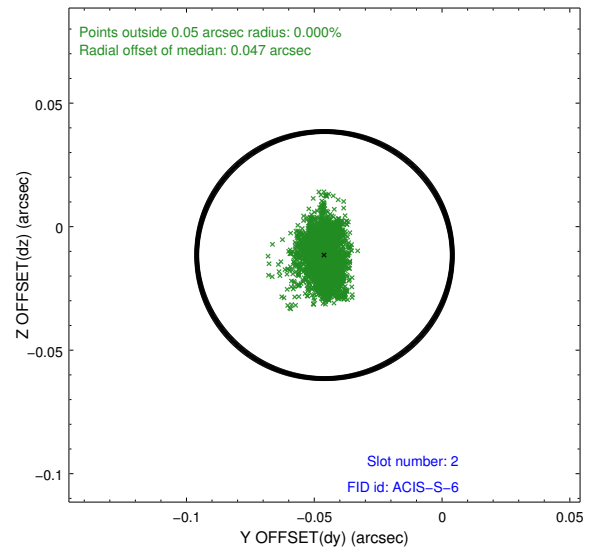
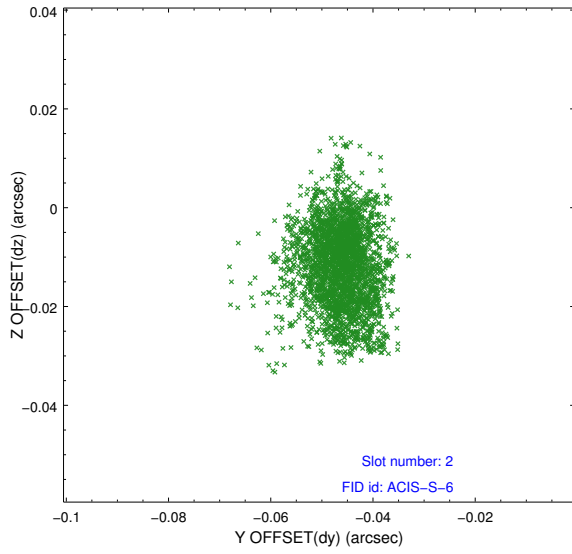
2.5.1 Slot 0



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)	2012.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.958

A.2 Comments