

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8695 - L2 Version 2
Chandra X-Ray Center

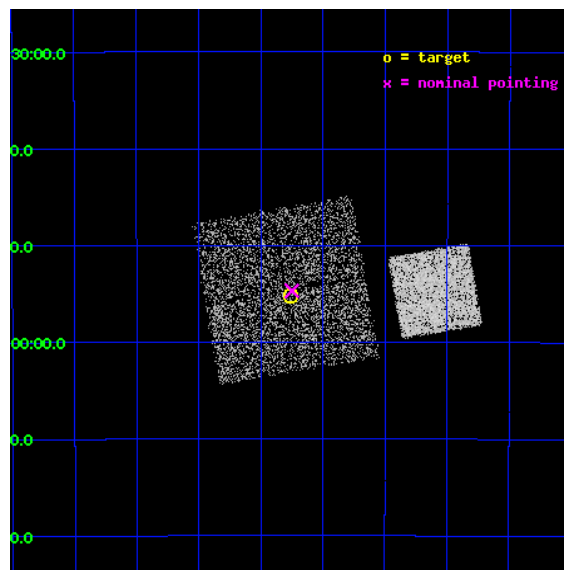
L2 Processing Date : May 15 2012

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

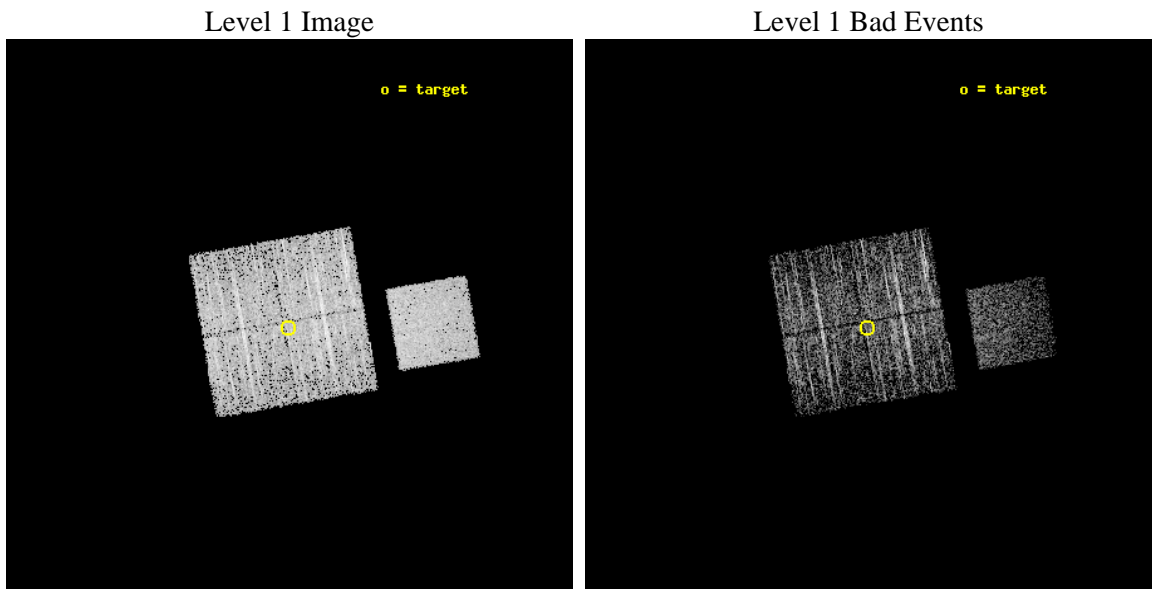
seq_num	400746	Sequence number
obs_id	8695	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.9388	Observer's specified target RA [deg]
dec_targ	-29.919667	Observer's specified target Dec [deg]
ra_nom	263.93747089729	Nominal RA [deg]
dec_nom	-29.911567298324	Nominal Dec [deg]
roll_nom	80.207822179996	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15880	Number of level 2 events



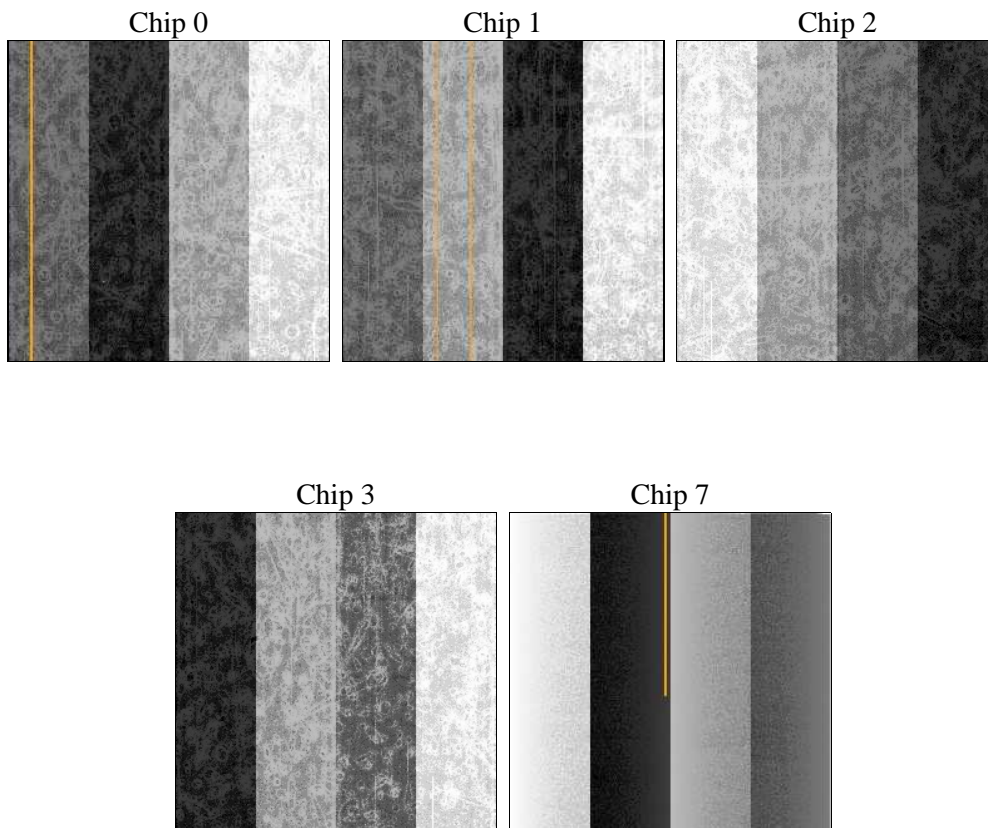
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2188.6000168324	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-15T04:07:36	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	104430	Number of level 1 events

2.1.4 Events

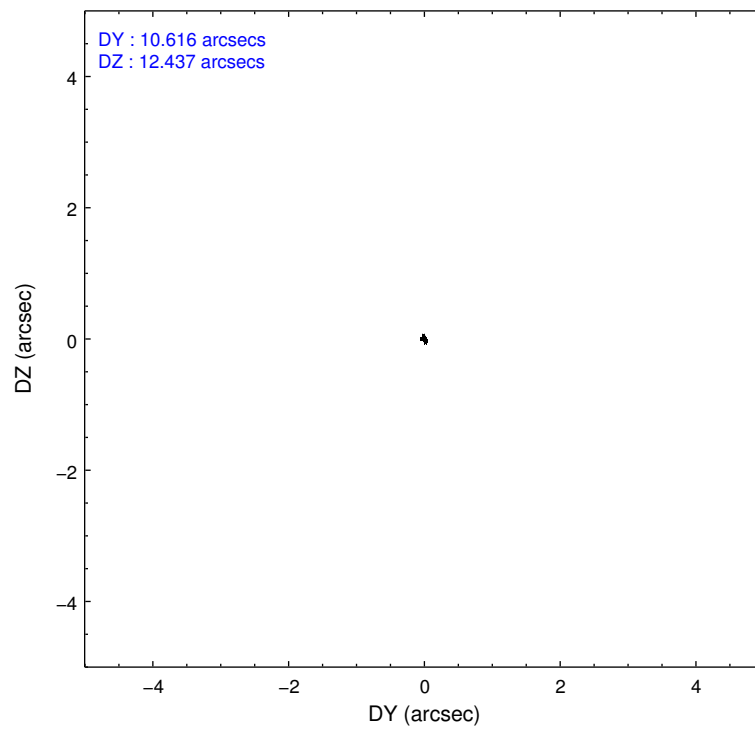
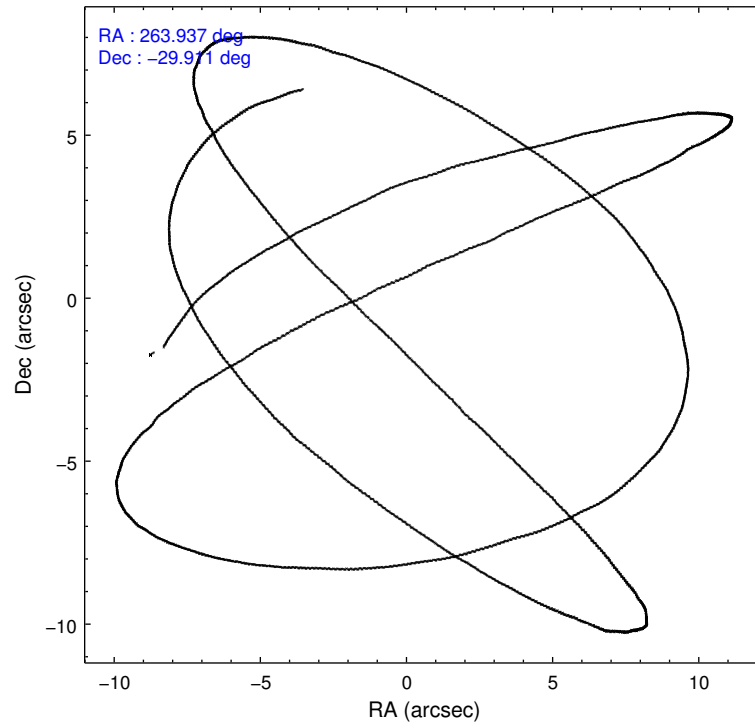
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19451	18264	23356	20378	22981
rejected events	17507	16062	21343	18384	13681
rejected %	90%	87%	91%	90%	59%

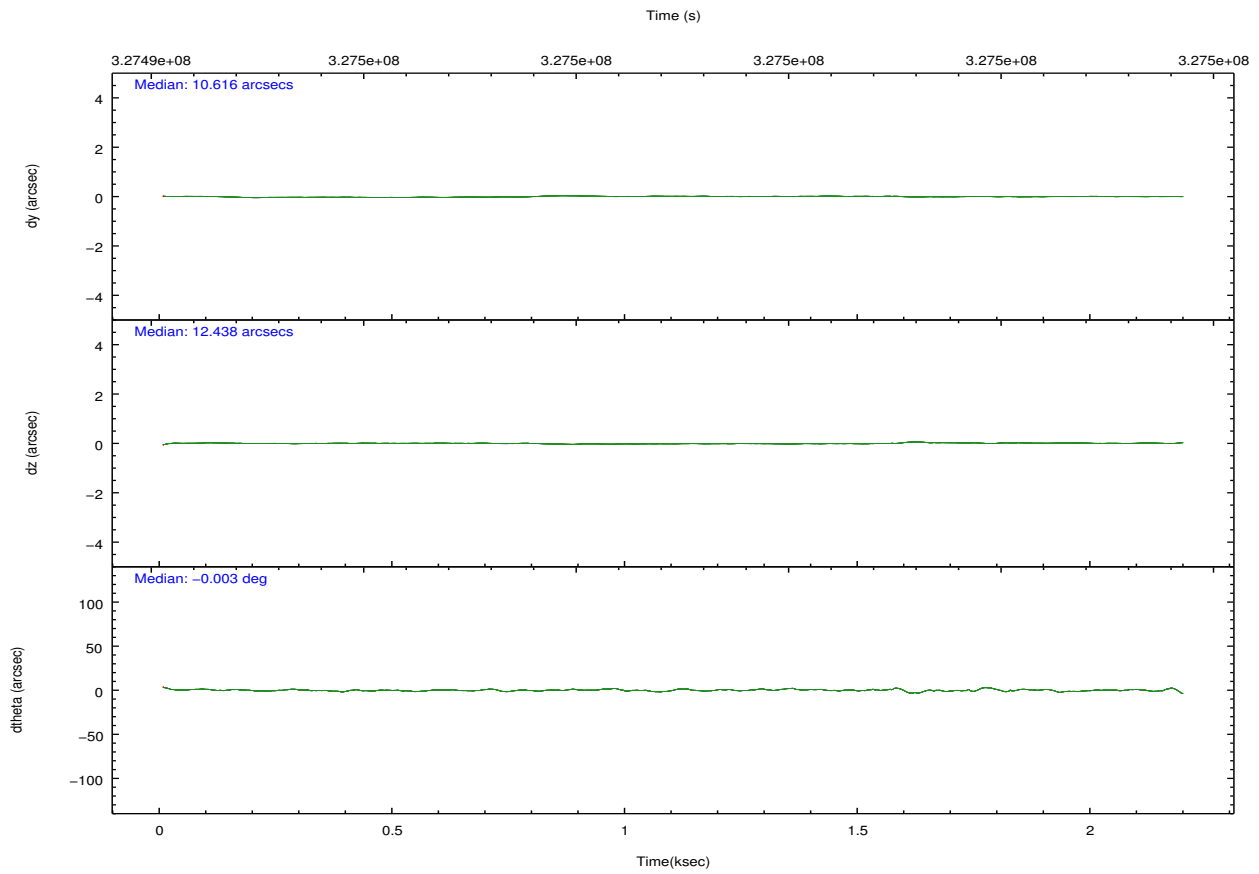
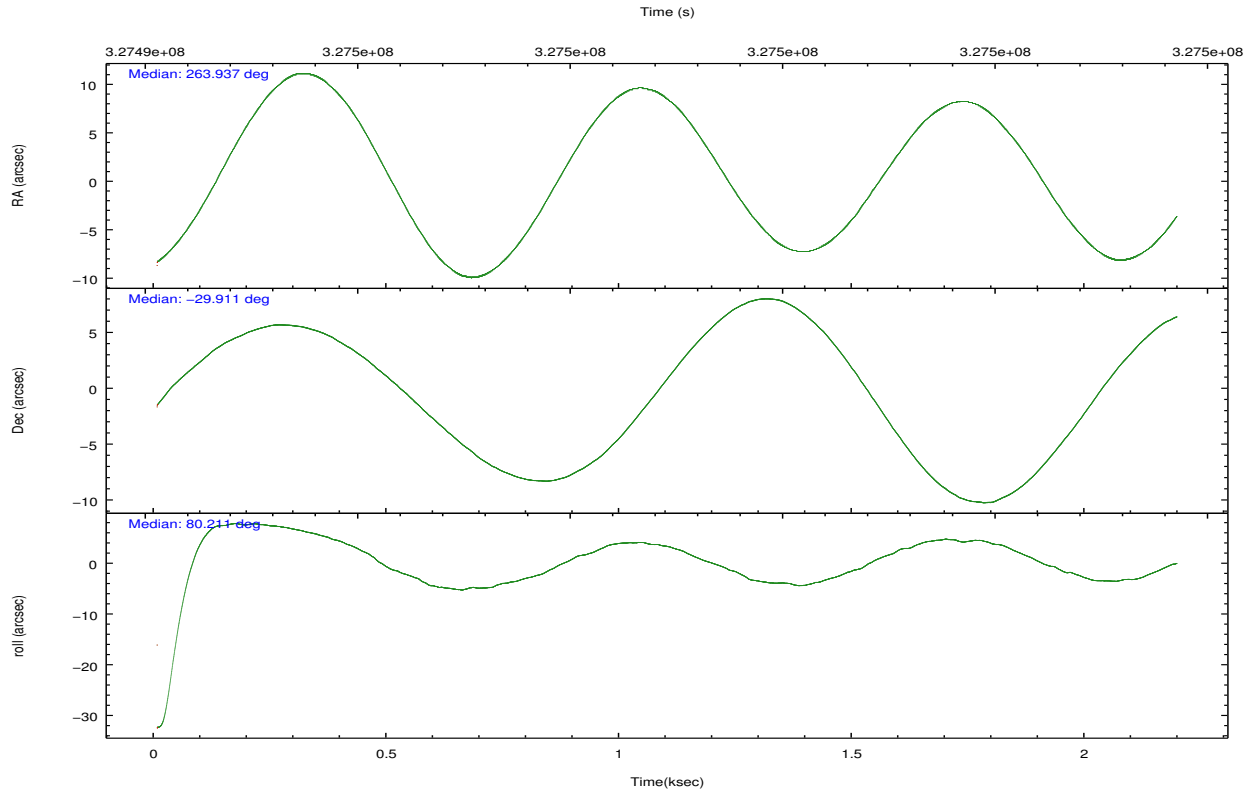
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	953	1029	939	917	1003
	4%	5%	4%	4%	4%
grade 1 events	7	11	16	18	35
	0%	0%	0%	0%	0%
grade 2 events	492	531	513	466	2155
	2%	2%	2%	2%	9%
grade 3 events	210	250	210	246	996
	1%	1%	0%	1%	4%
grade 4 events	233	255	253	212	996
	1%	1%	1%	1%	4%
grade 5 events	656	776	633	831	2276
	3%	4%	2%	4%	9%
grade 6 events	366	451	377	416	5492
	1%	2%	1%	2%	23%
grade 7 events	16534	14961	20415	17272	10028
	85%	81%	87%	84%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	263.948660	263.9374708972854	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.937429	-29.91156729832379	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004924	80.2078221799962	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327494824.184000	327494447.68423	CCD S5 on	N	N
Observation start date	2008-05-18T10:45:59	2008-05-18T10:40:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327496824.184000	327496957.90935	On-chip summing requested	N	N
Observation end date	2008-05-18T11:19:19	2008-05-18T11:22:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



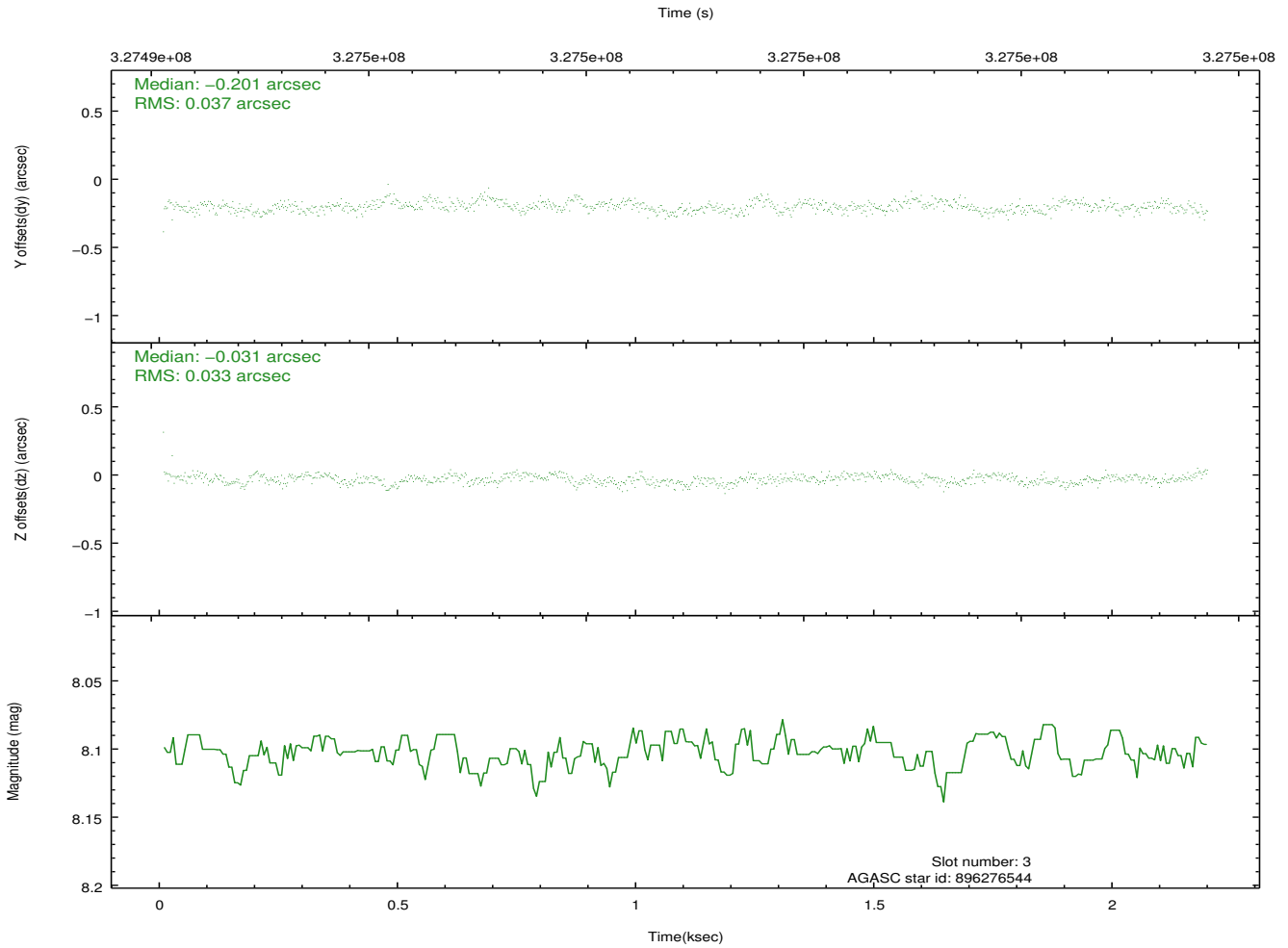
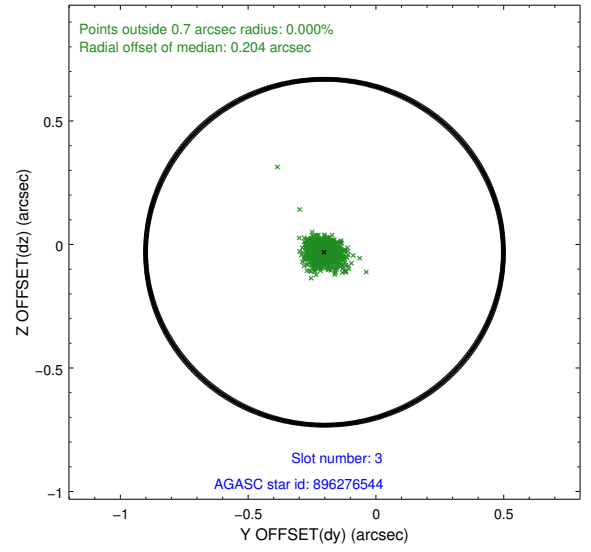
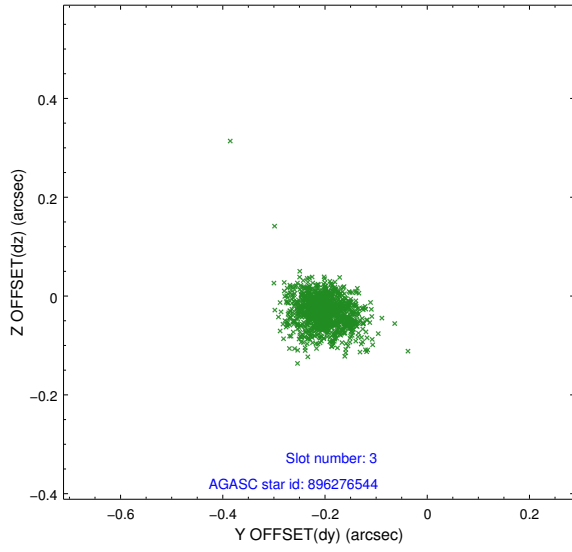


Slot Statistics

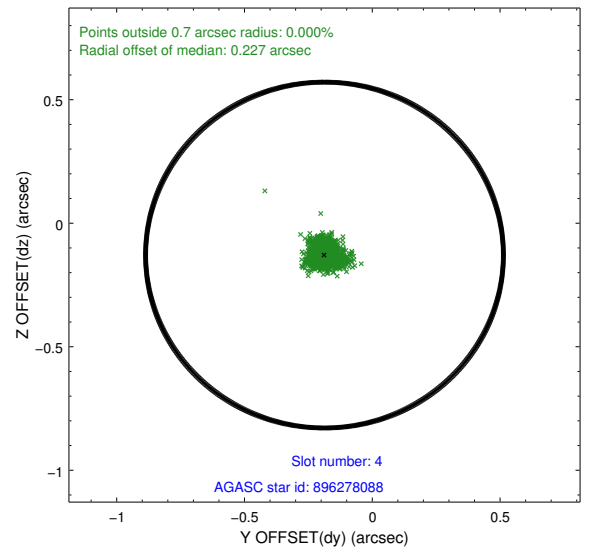
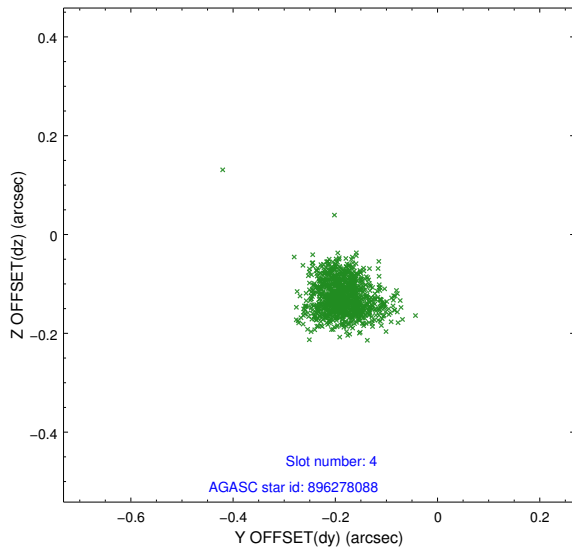
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	535	-0.025	0.030	0.009	0.017	0.000000	0.000000	928.97	-835.92
1	FID	ACIS-I-2	6.95	535	-0.135	-0.045	0.007	0.013	0.000000	0.000000	-763.58	-843.96
2	FID	ACIS-I-4	6.98	535	0.061	0.082	0.006	0.010	0.000000	0.000000	2147.54	1062.46
3	GUIDE	896276544	8.10	1070	-0.201	-0.031	0.050	0.082	263.666616	-29.255819	2261.30	1297.59
4	GUIDE	896278088	7.61	1070	-0.187	-0.129	0.053	0.086	263.476198	-29.223388	2272.66	1908.13
5	GUIDE	966787992	7.73	1070	0.114	-0.119	0.066	0.108	263.507229	-30.411177	-1918.14	1054.62
6	GUIDE	966788496	8.61	1069	0.195	0.164	0.067	0.104	264.053541	-30.541810	-2088.43	-697.11
7	GUIDE	966791064	7.77	1069	0.075	0.113	0.052	0.083	263.920275	-30.338943	-1441.05	-164.91

2.4 Star Slots

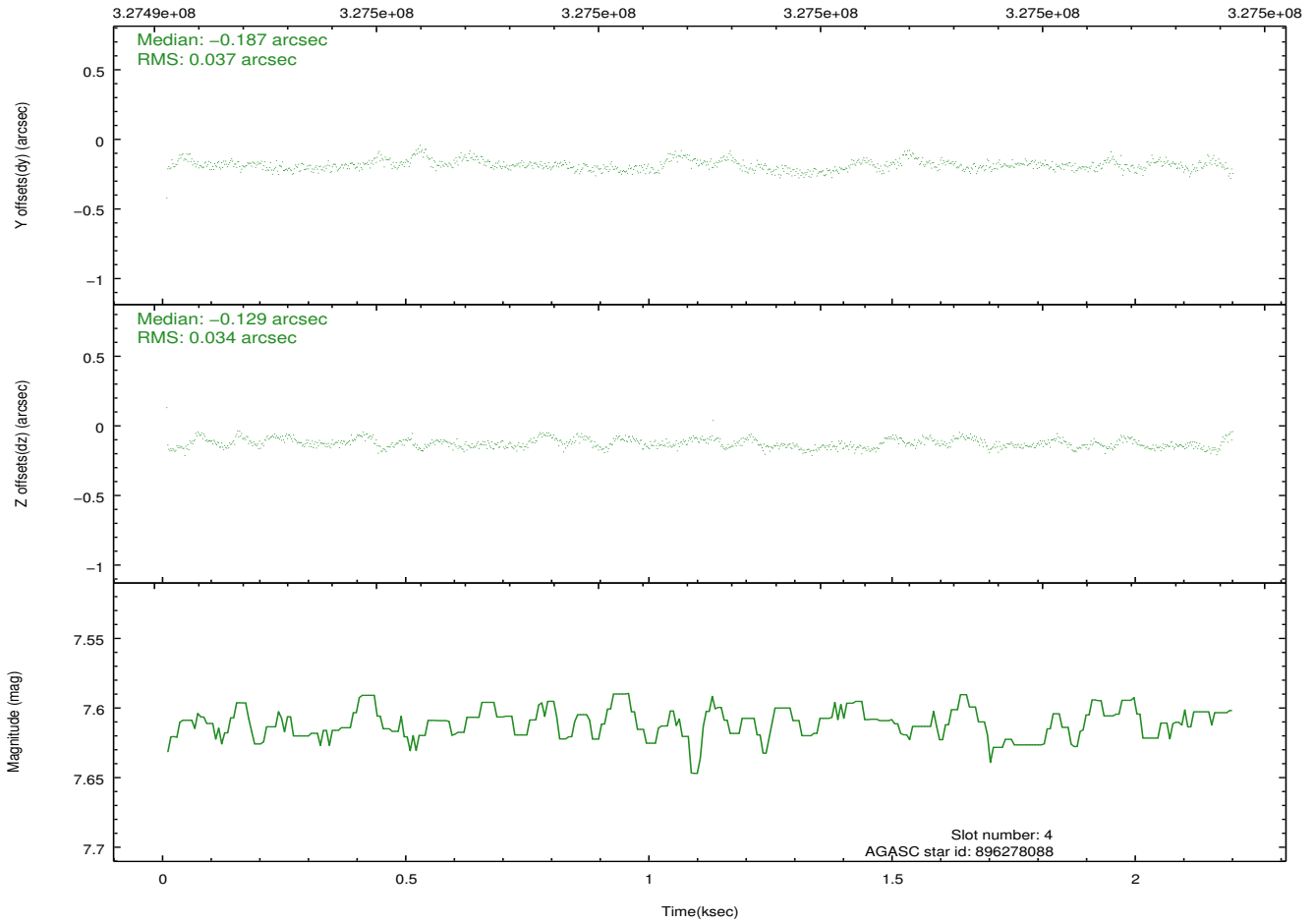
2.4.1 Slot 3



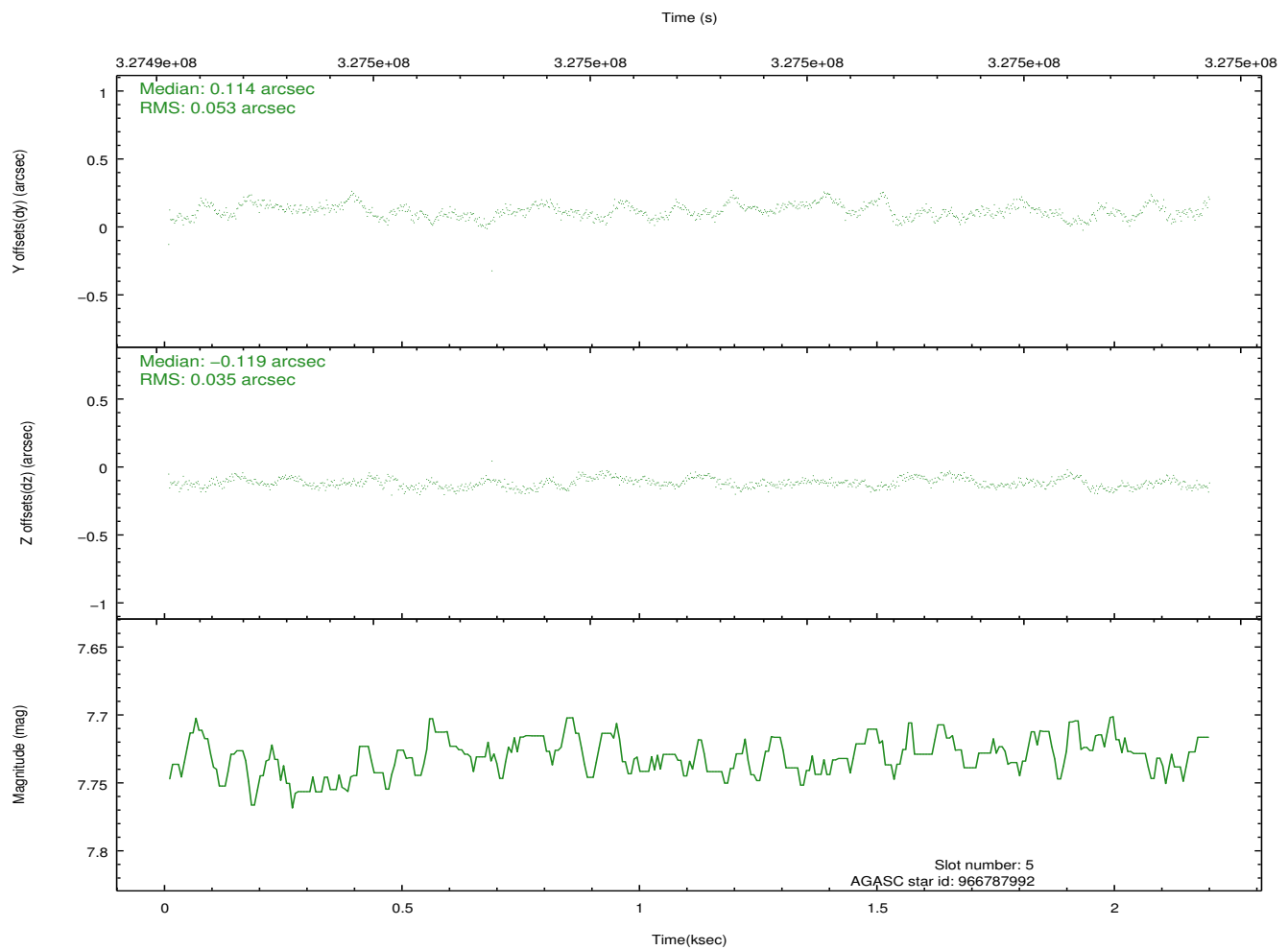
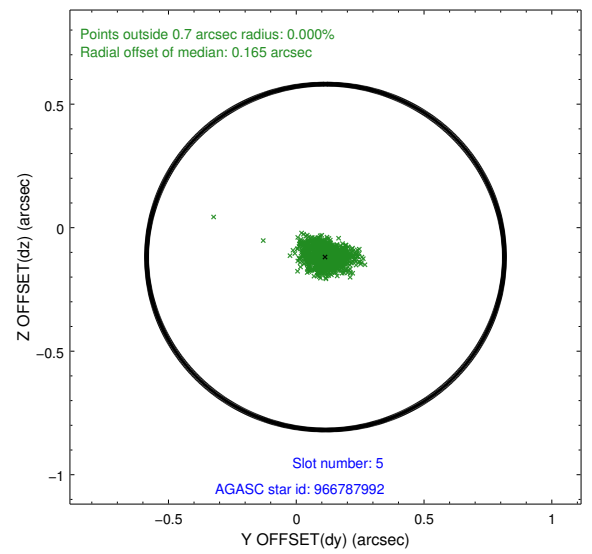
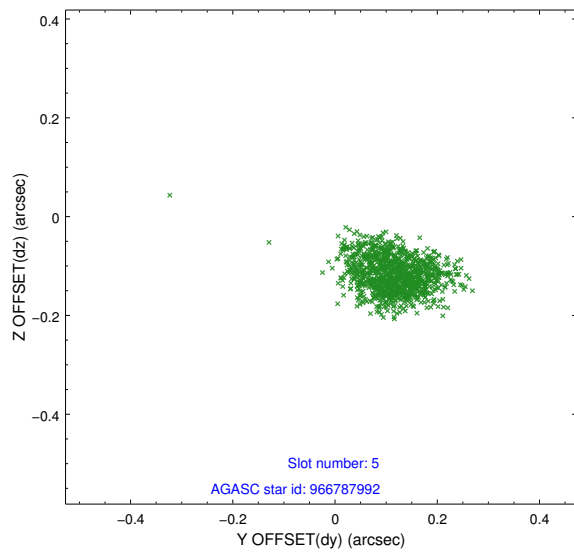
2.4.2 Slot 4



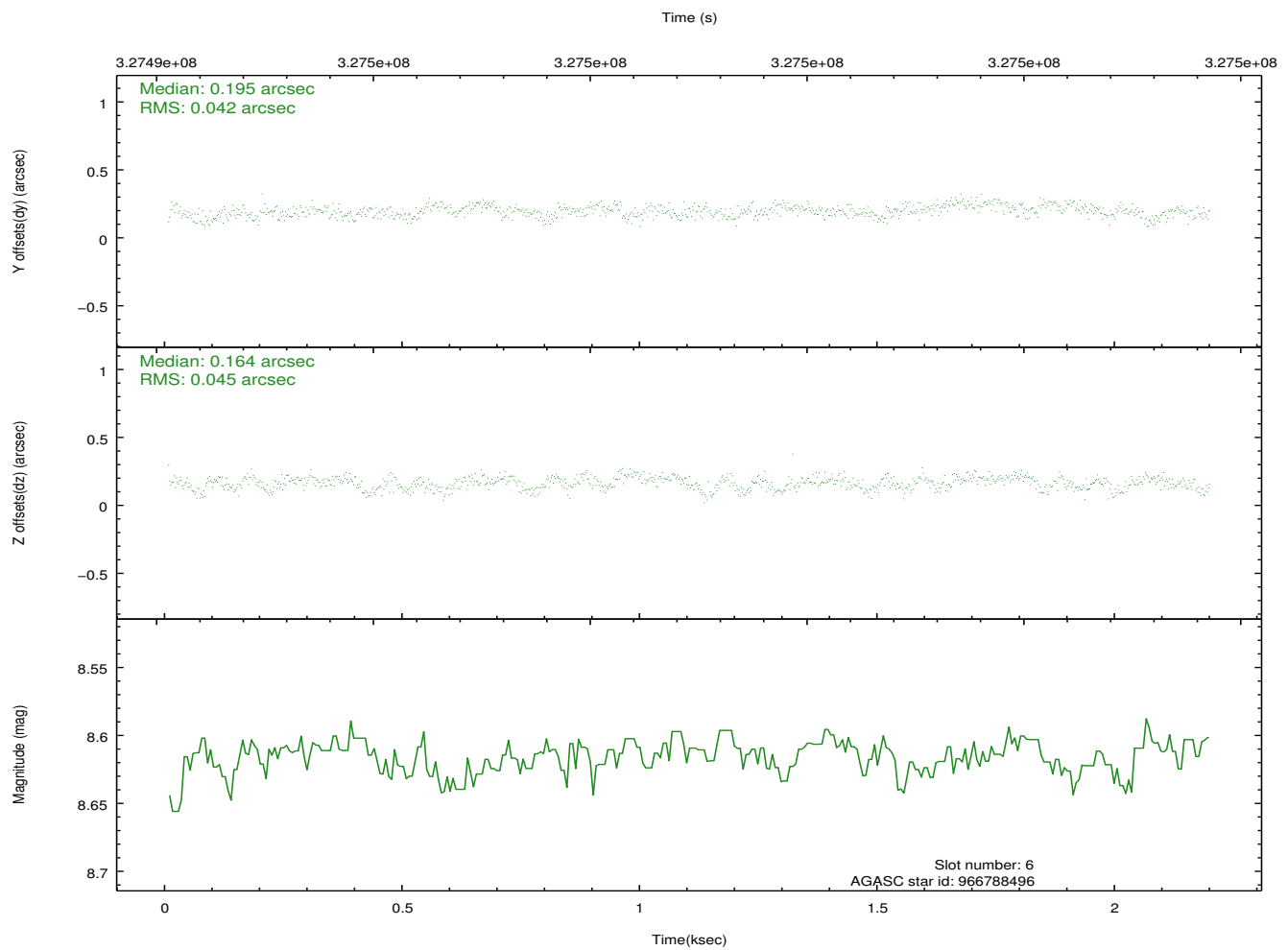
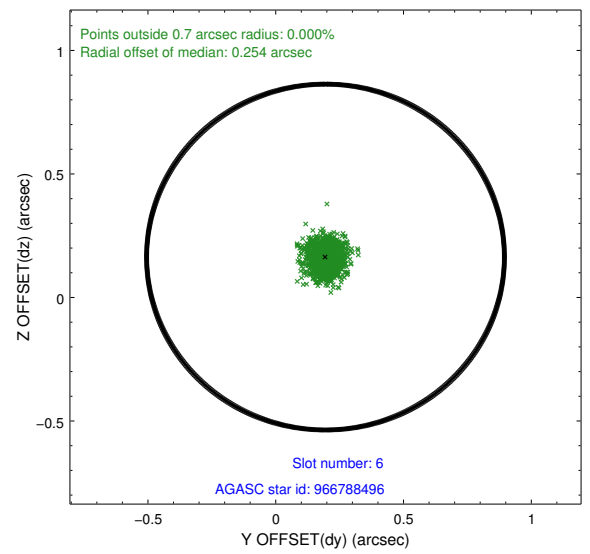
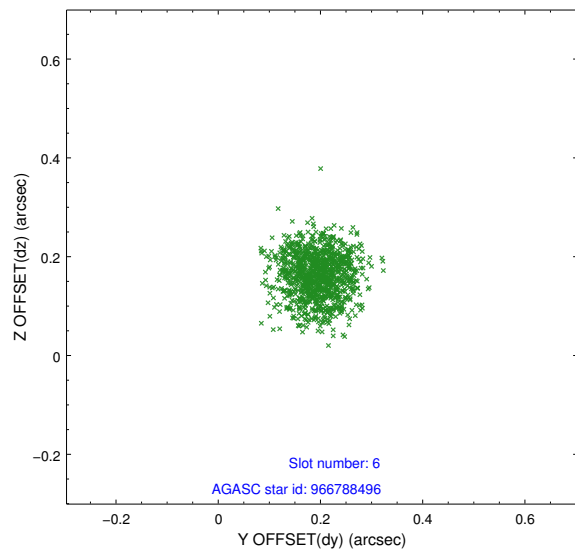
Time (s)



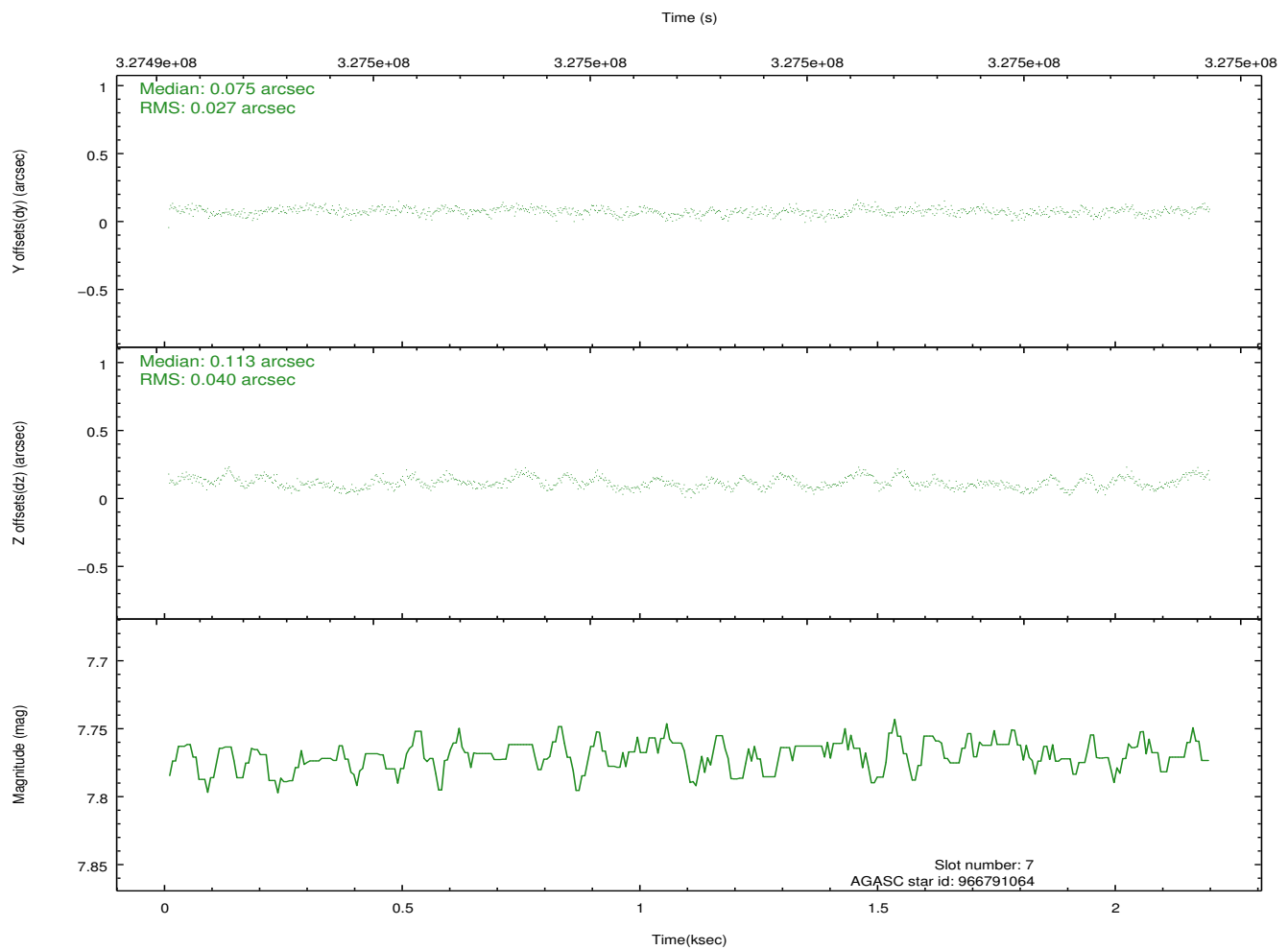
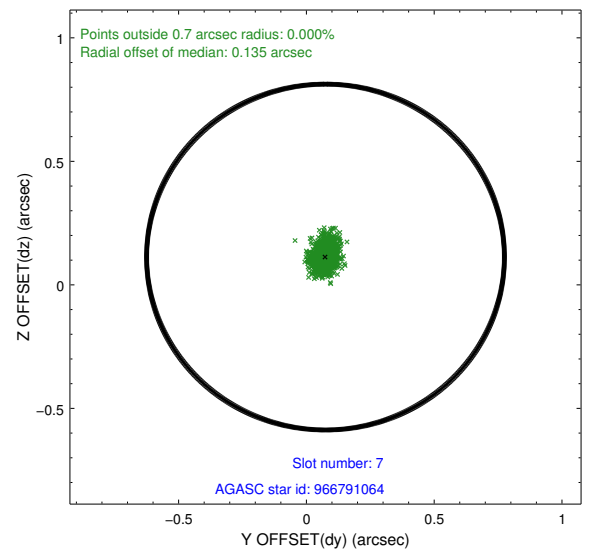
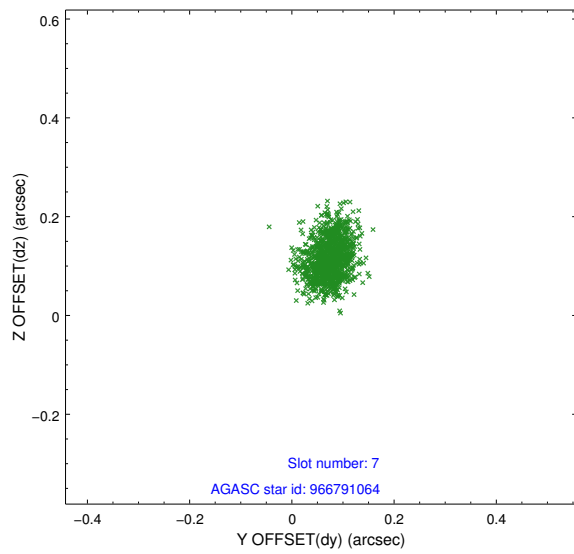
2.4.3 Slot 5



2.4.4 Slot 6

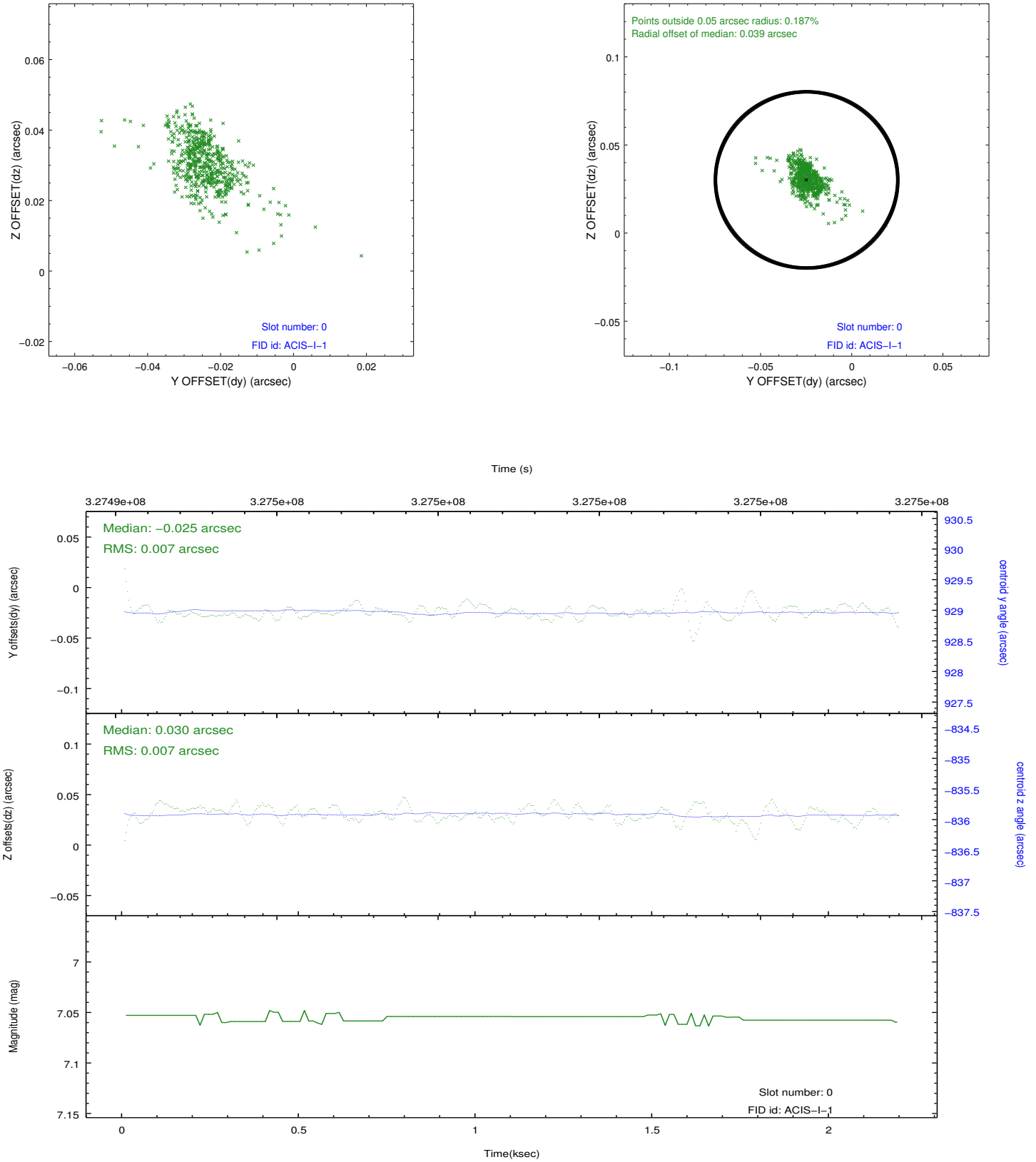


2.4.5 Slot 7

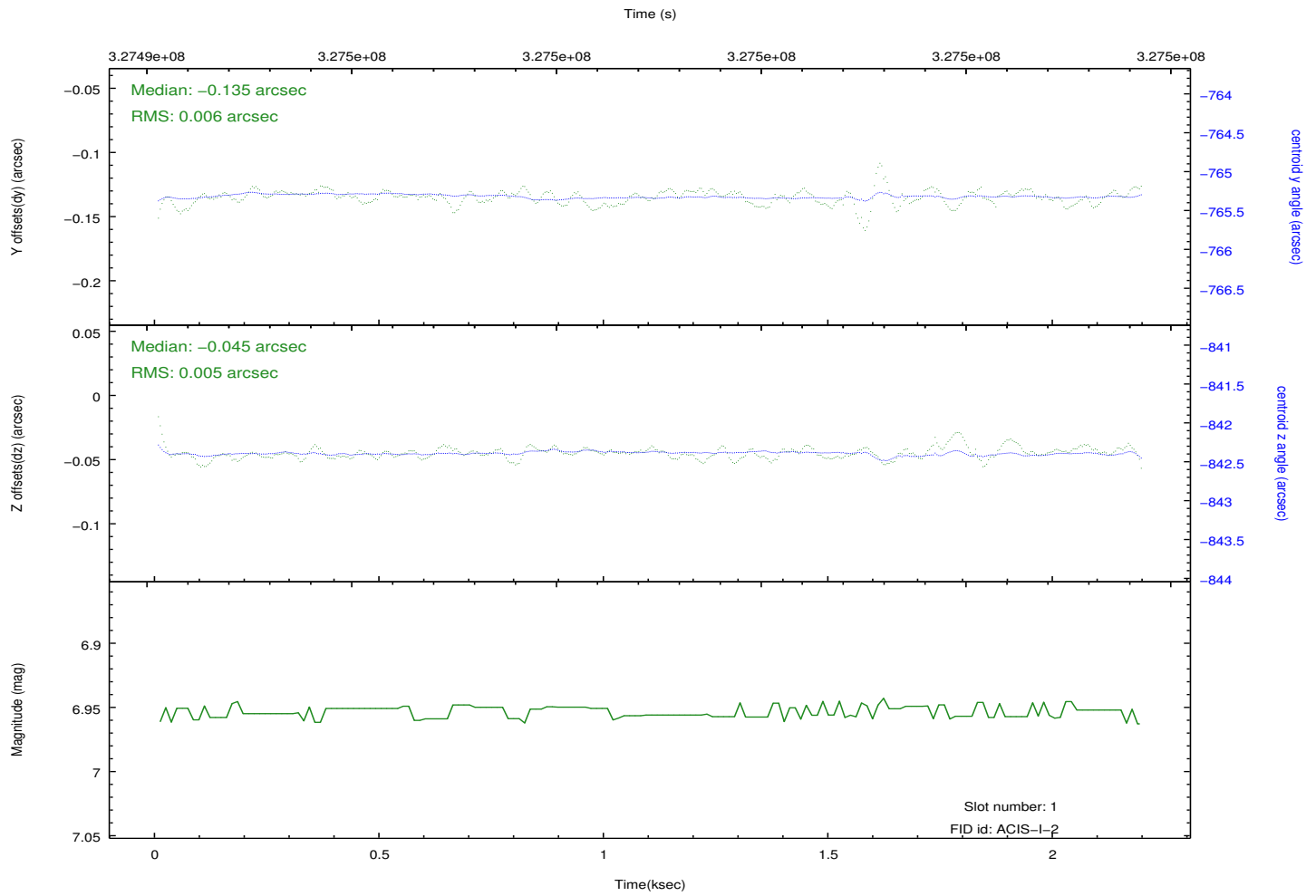
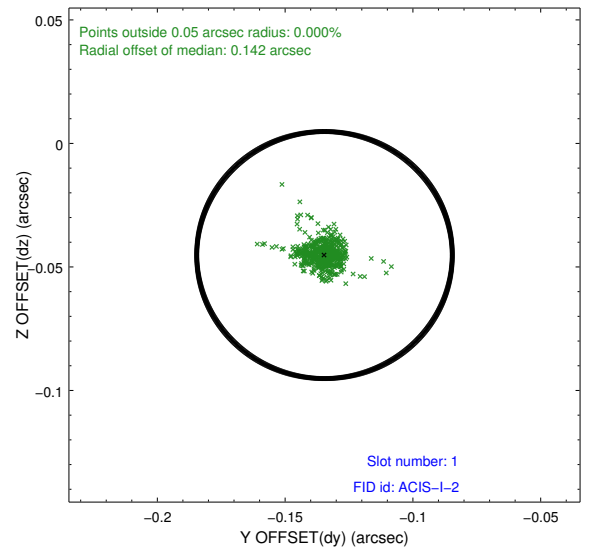
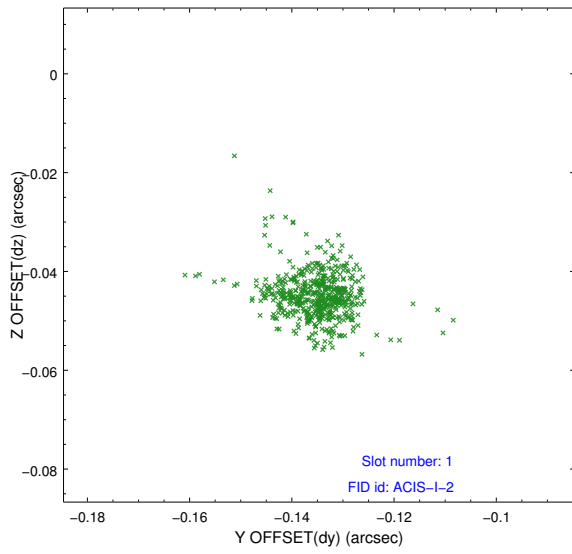


2.5 FID Slots

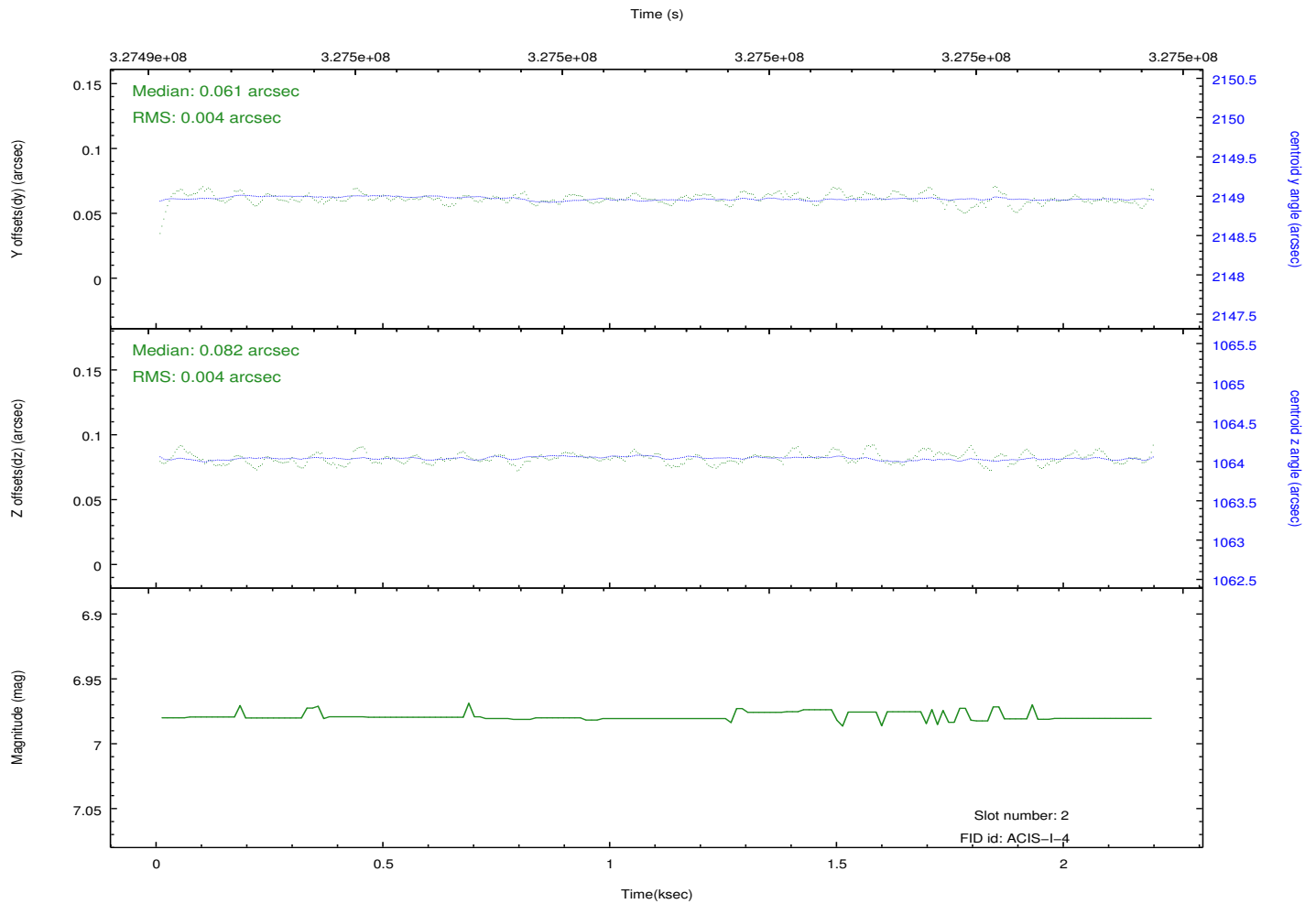
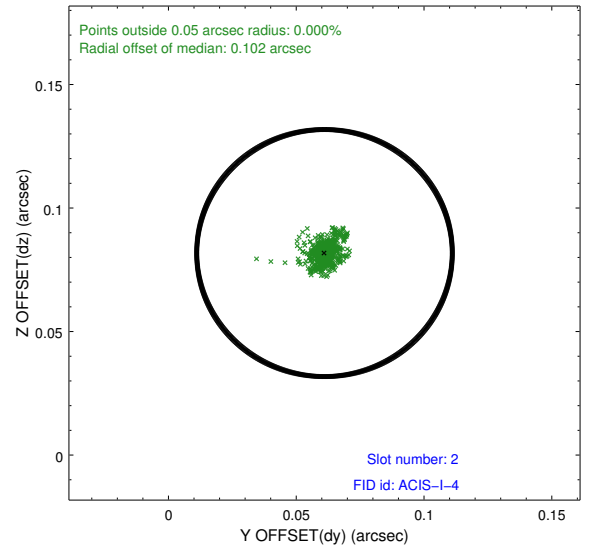
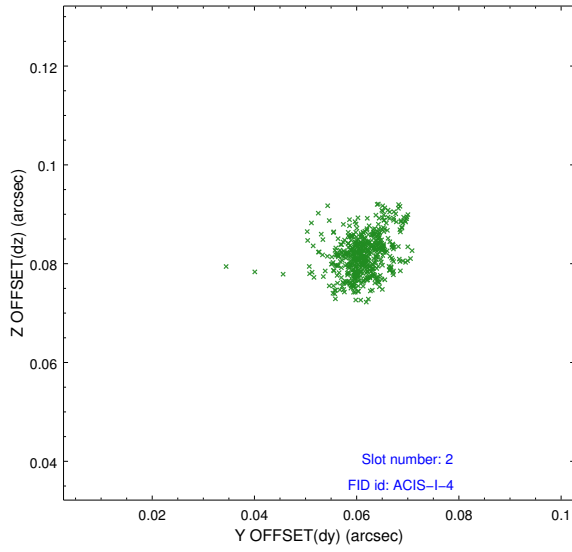
2.5.1 Slot 0



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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18860001

A.2 Comments