

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 8211 - L2 Version 2
Chandra X-Ray Center

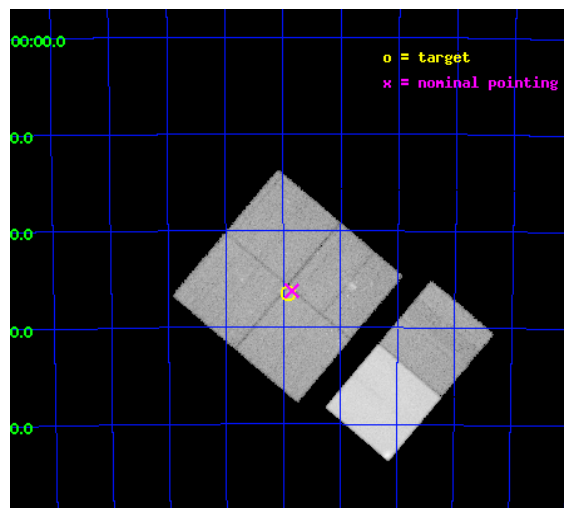
L2 Processing Date : Jun 28 2012

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

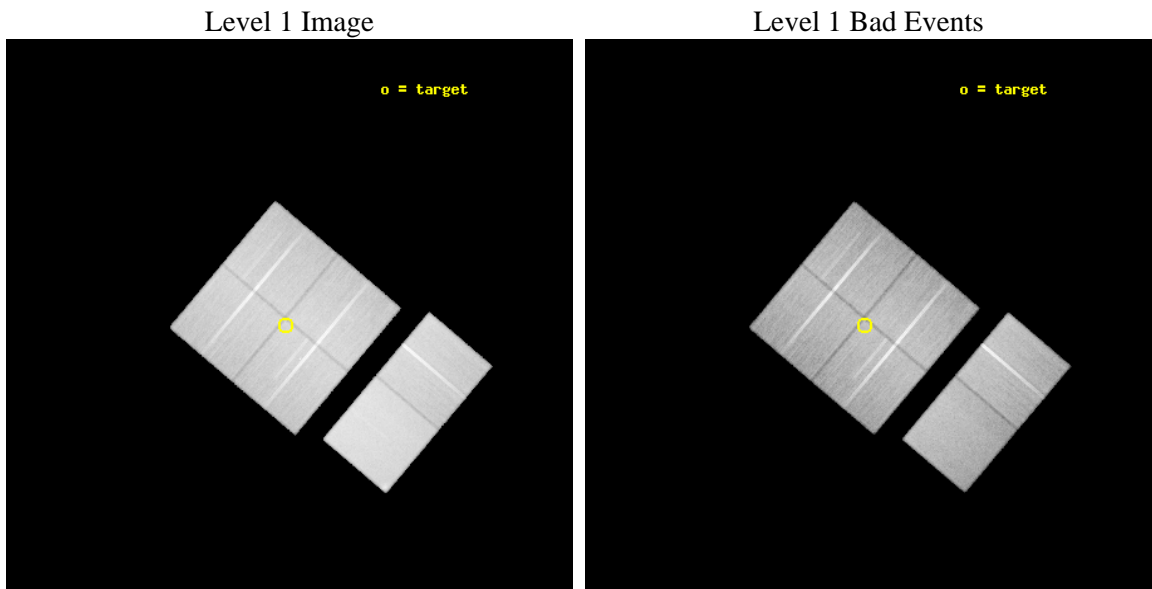
seq_num	600646	Sequence number
obs_id	8211	Observation id
title	Massive Star Formation and Energy Feedback in the Starburst Region N11	Proposal title
observer	Prof. You-Hua Chu	Principal investigator
object	LHA 120-N 11	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.979167	Observer's specified target RA [deg]
dec_targ	-66.441667	Observer's specified target Dec [deg]
ra_nom	73.962115802644	Nominal RA [deg]
dec_nom	-66.43731662594	Nominal Dec [deg]
roll_nom	130.19305997117	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47970.802827239	Sum of GTIs [s]
livetime	47363.367637291	Livetime [s]
ontime0	47970.679707229	Sum of GTIs [s]
ontime1	47967.479796767	Sum of GTIs [s]
ontime2	47967.520767152	Sum of GTIs [s]
ontime3	47970.802827239	Sum of GTIs [s]
ontime6	47967.643887162	Sum of GTIs [s]
ontime7	47967.602896869	Sum of GTIs [s]
l2events	505466	Number of level 2 events



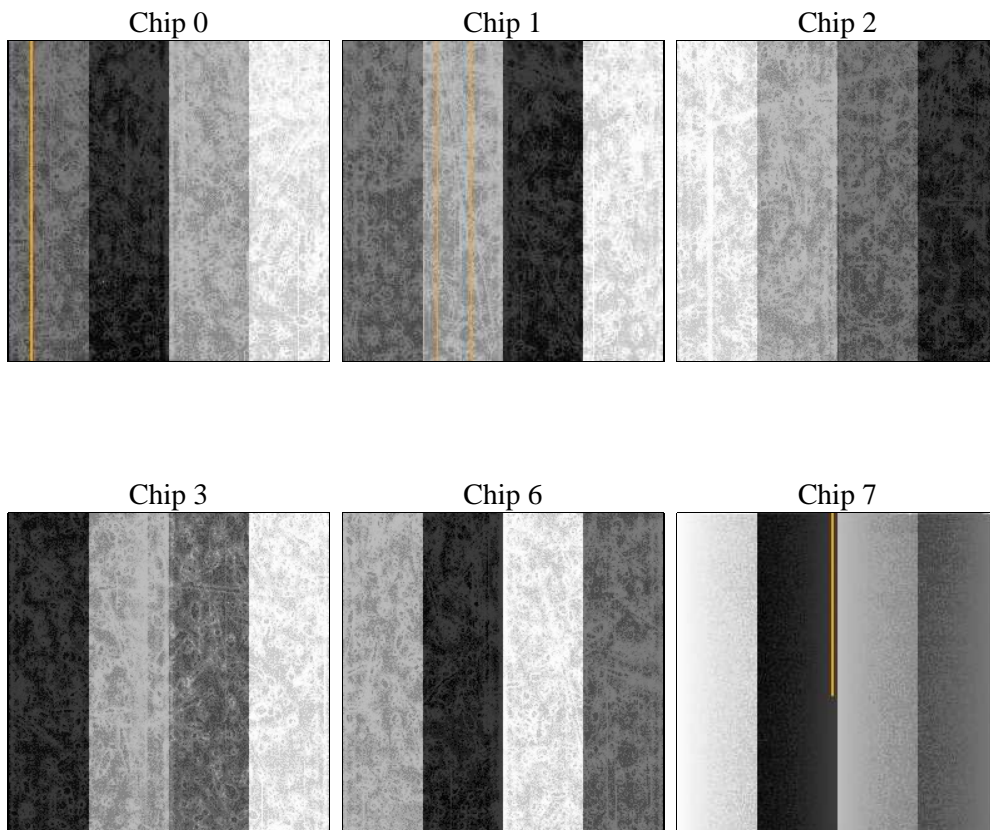
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	47970.802827239	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	47970.679707229	Sum of GTIs [s]
date	2012-06-28T15:06:50	Date and time of file creation	ontime1	47967.479796767	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	47967.520767152	Sum of GTIs [s]
			ontime3	47970.802827239	Sum of GTIs [s]
			ontime6	47967.643887162	Sum of GTIs [s]
			ontime7	47967.602896869	Sum of GTIs [s]
			l1events	2880777	Number of level 1 events

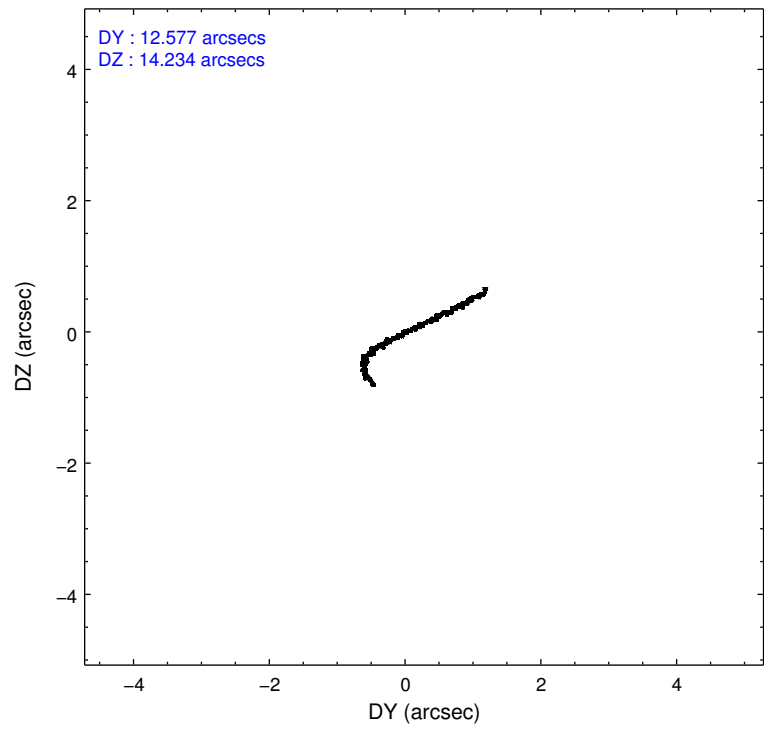
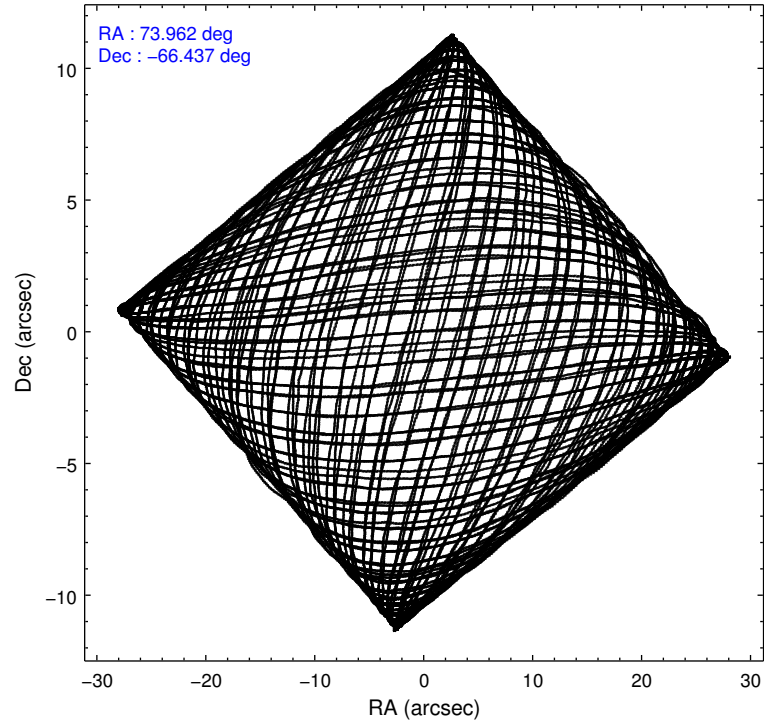
2.1.4 Events

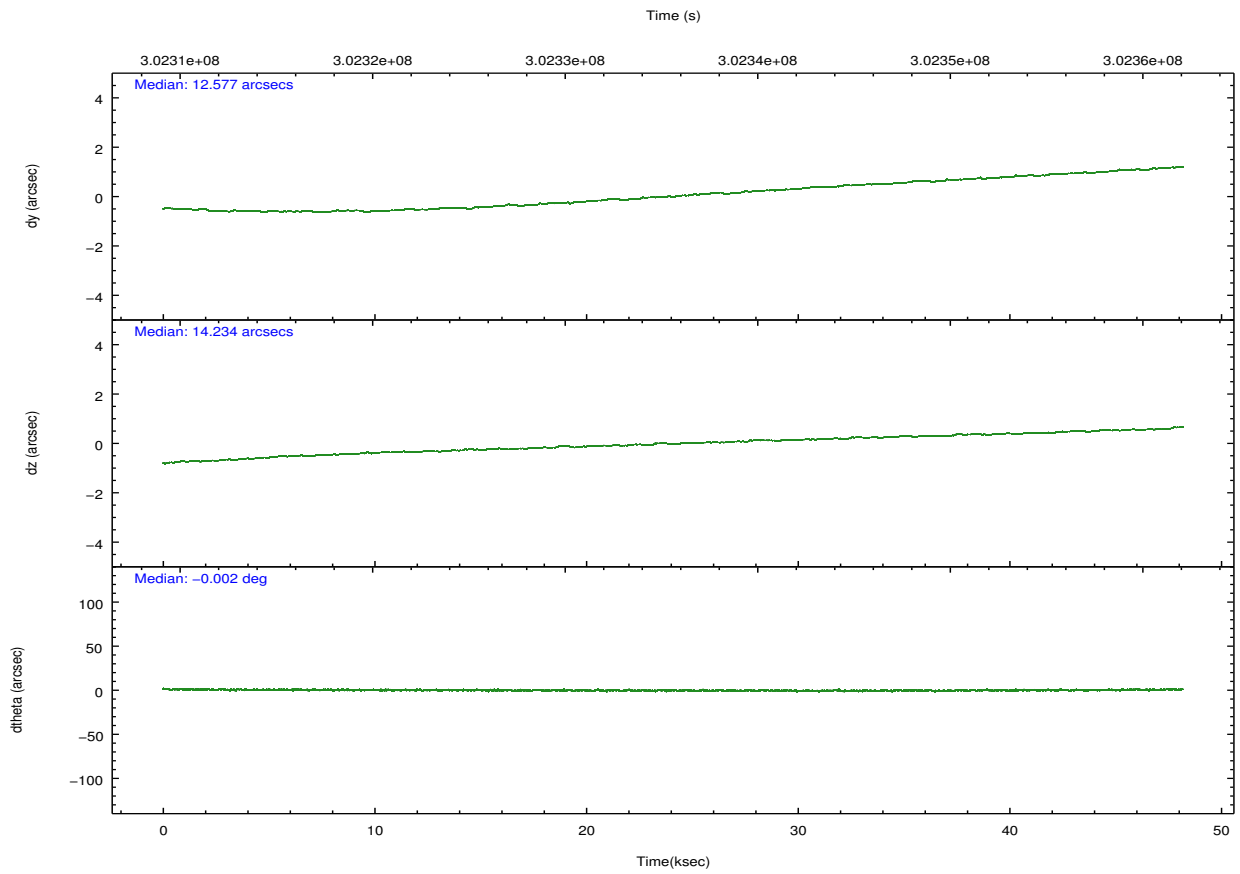
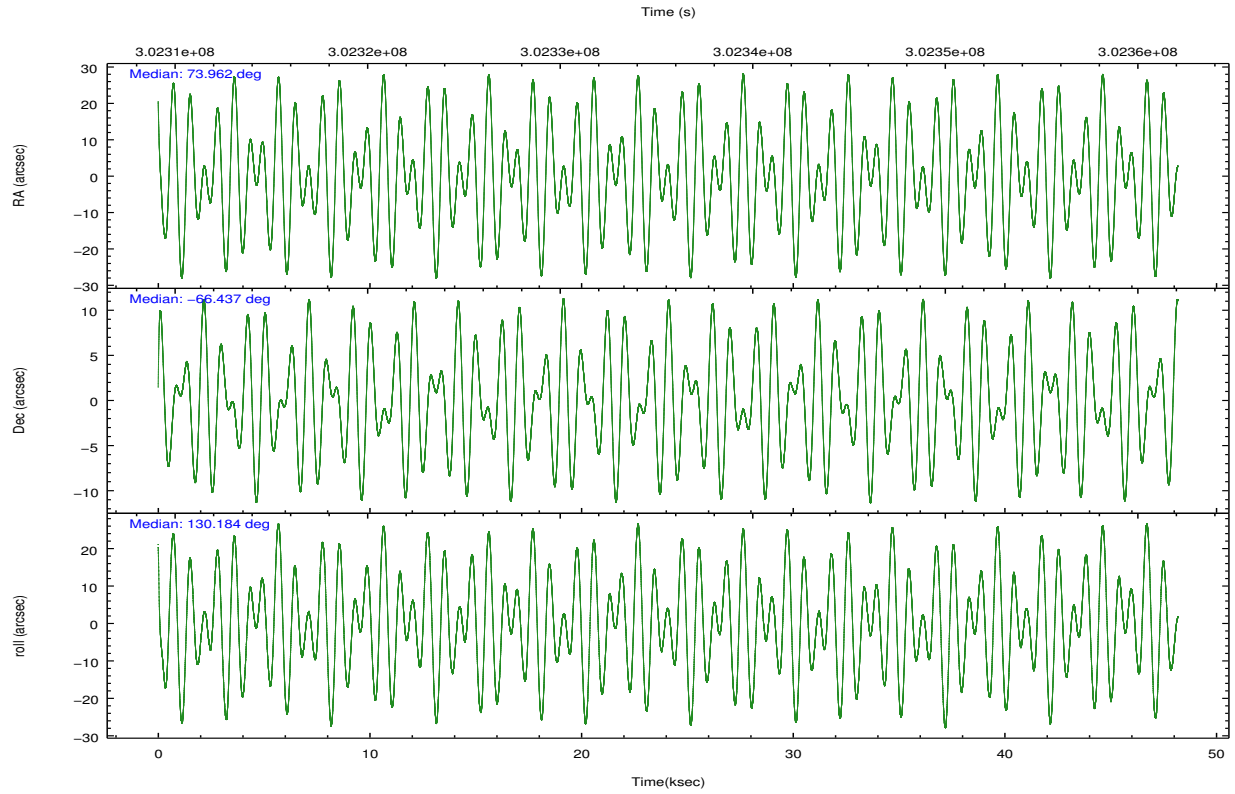
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	425607	427179	464917	454443	479594	629037	grade 0 events	24923	24450	27065	25834	20907	23217
rejected events	368469	366335	407652	397883	424650	366177		5%	5%	5%	5%	4%	3%
rejected %	86%	85%	87%	87%	88%	58%	grade 1 events	260	246	334	323	230	592
								0%	0%	0%	0%	0%	0%
							grade 2 events	12526	14121	11589	10961	12493	53982
								2%	3%	2%	2%	2%	8%
							grade 3 events	5196	5520	4968	5118	5194	22676
								1%	1%	1%	1%	1%	3%
							grade 4 events	4956	5438	4947	4993	4987	21966
								1%	1%	1%	1%	1%	3%
							grade 5 events	18316	19516	17500	20850	21540	58576
								4%	4%	3%	4%	4%	9%
							grade 6 events	9542	11317	8701	9657	11367	141058
								2%	2%	1%	2%	2%	22%
							grade 7 events	349888	346571	389813	376707	402876	306970
								82%	81%	83%	82%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	74.026941	73.96211580264381	CCD I2 on	Y	Y
[deg] Pointing Dec	-66.446539	-66.43731662594007	CCD I3 on	Y	Y
[deg] Pointing Roll	130.043795	130.193059971175	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	302311696.184000	302310725.36552	CCD S5 on	N	N
Observation start date	2007-07-31T23:27:11	2007-07-31T23:12:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	302359696.184000	302360683.86792	On-chip summing requested	N	N
Observation end date	2007-08-01T12:47:11	2007-08-01T13:04:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



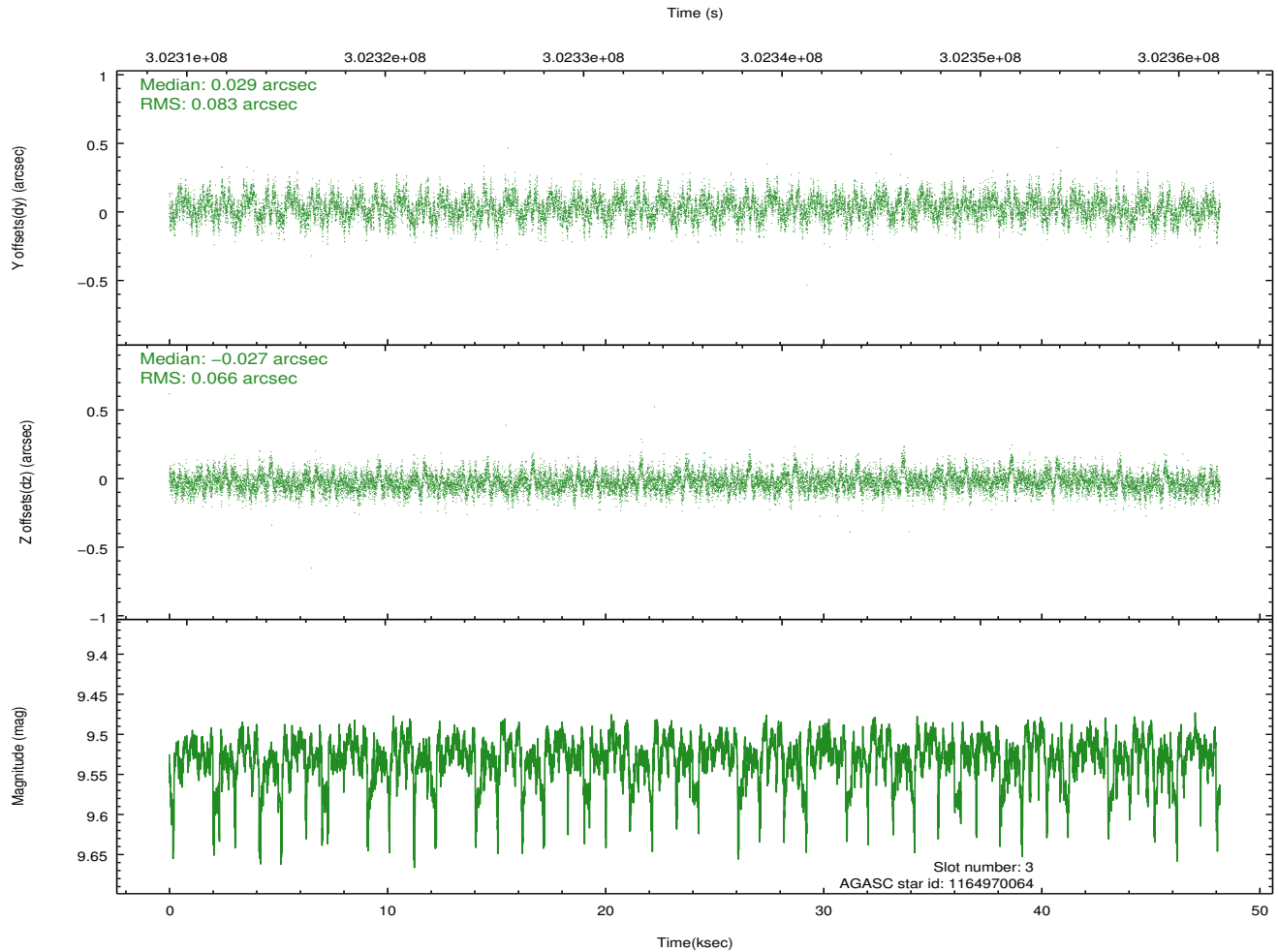
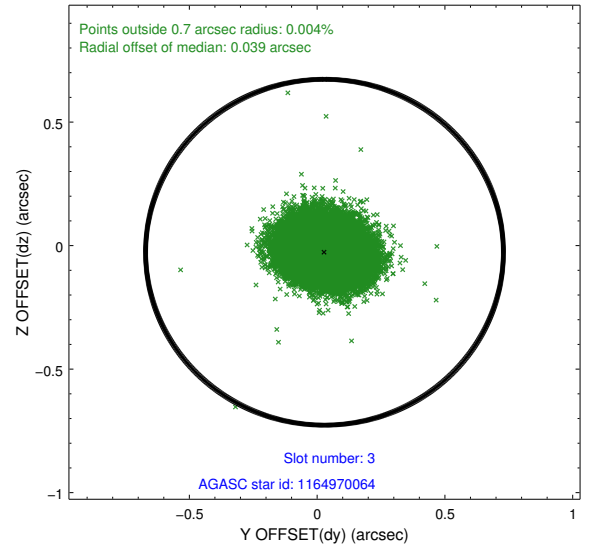
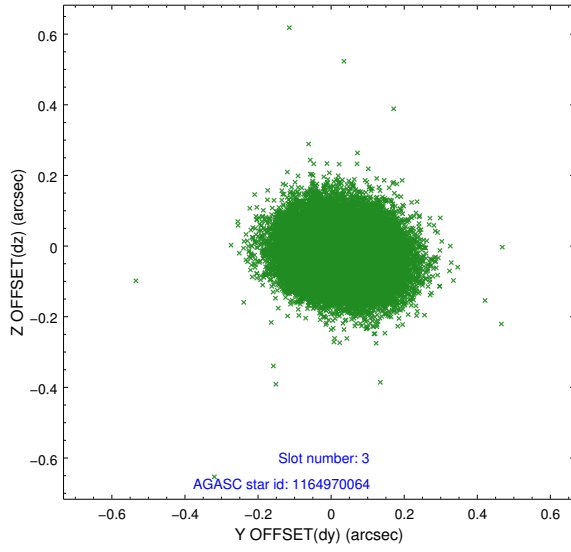


Slot Statistics

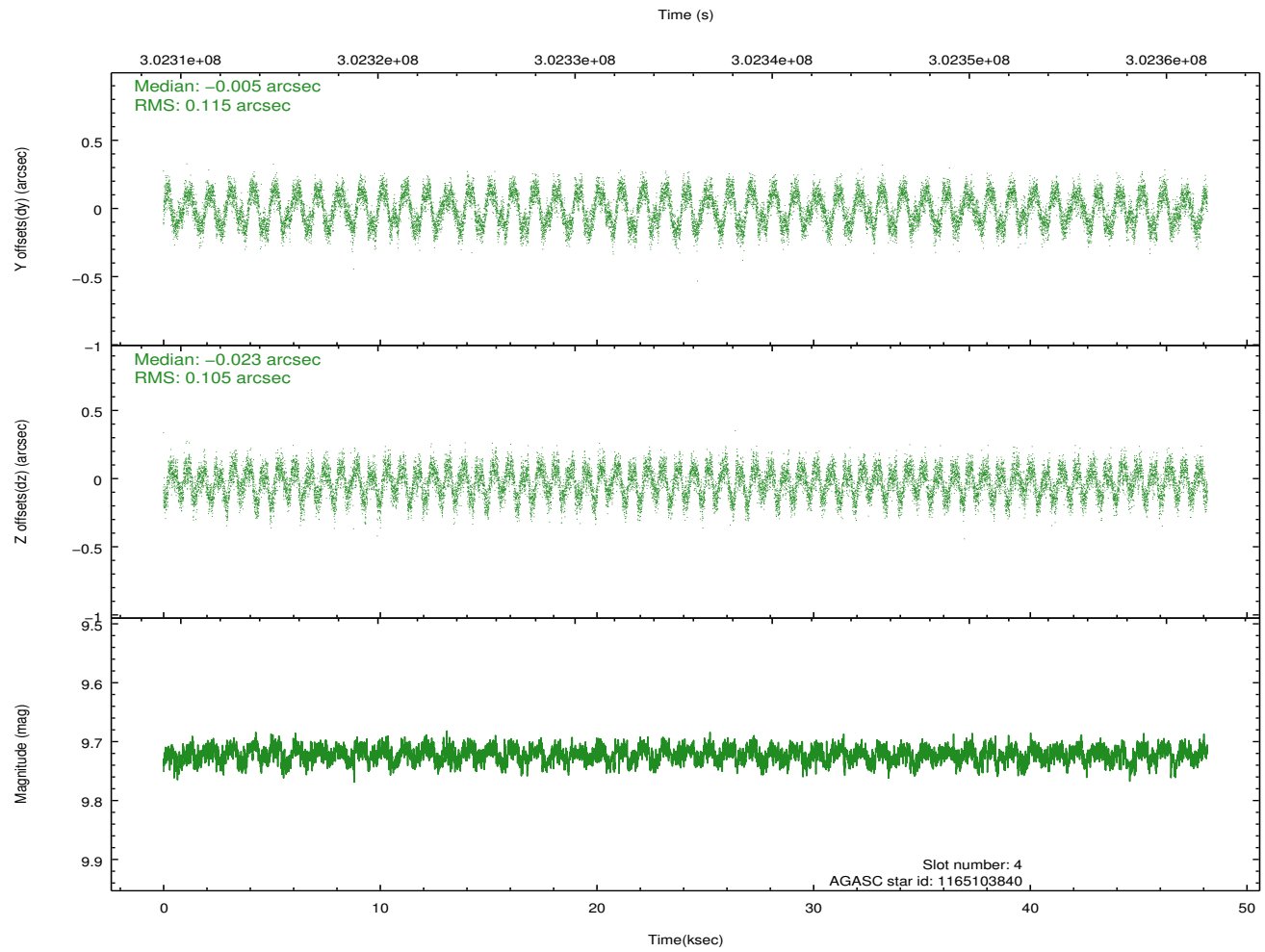
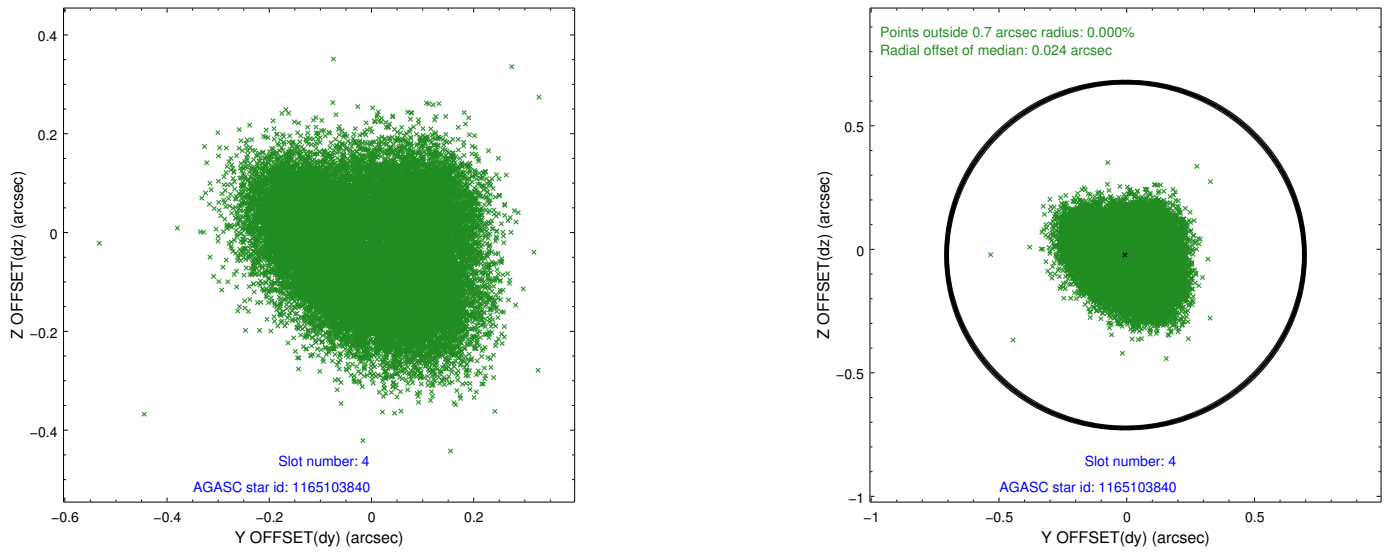
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	11749	0.025	0.007	0.018	0.029	0.000000	0.000000	926.88	-837.78
1	FID	ACIS-I-5	7.22	11748	-0.199	0.034	0.016	0.026	0.000000	0.000000	-1821.47	1059.73
2	FID	ACIS-I-6	7.23	11749	0.085	0.032	0.018	0.026	0.000000	0.000000	392.48	1704.23
3	GUIDE	1164970064	9.53	23420	0.029	-0.027	0.113	0.182	72.080416	-66.480750	1670.70	2249.51
4	GUIDE	1165103840	9.72	23473	-0.005	-0.023	0.171	0.246	74.488651	-66.144068	399.64	-1213.19
5	GUIDE	1165103432	7.78	23423	-0.039	-0.147	0.088	0.140	73.586938	-67.285414	-1920.37	2412.23
6	GUIDE	1165102224	9.50	23473	-0.052	0.099	0.121	0.203	75.124856	-66.013882	148.39	-2222.68
7	GUIDE	1165102552	9.74	23440	0.077	0.103	0.148	0.237	75.884405	-66.634790	-2254.49	-1568.67

2.4 Star Slots

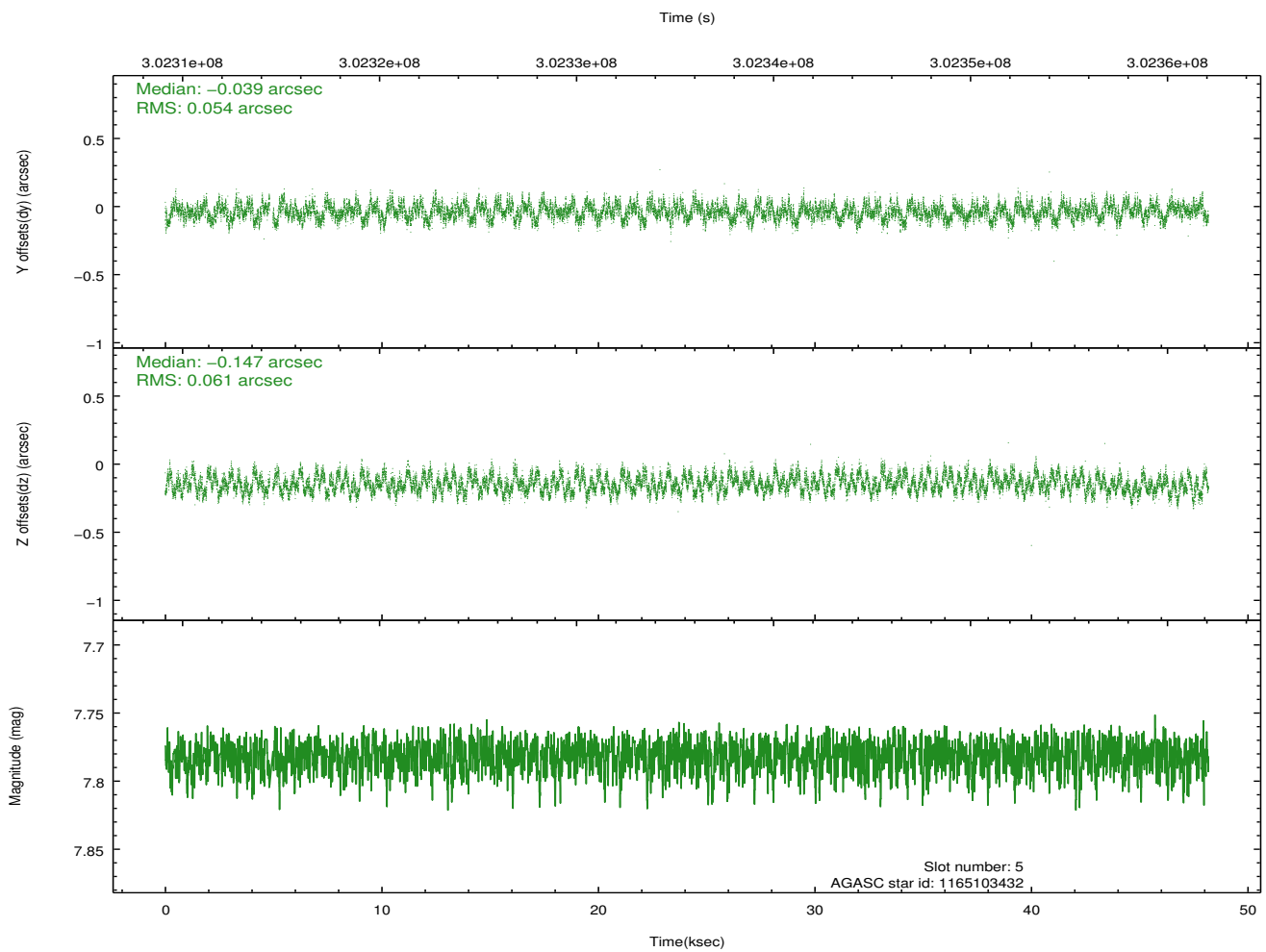
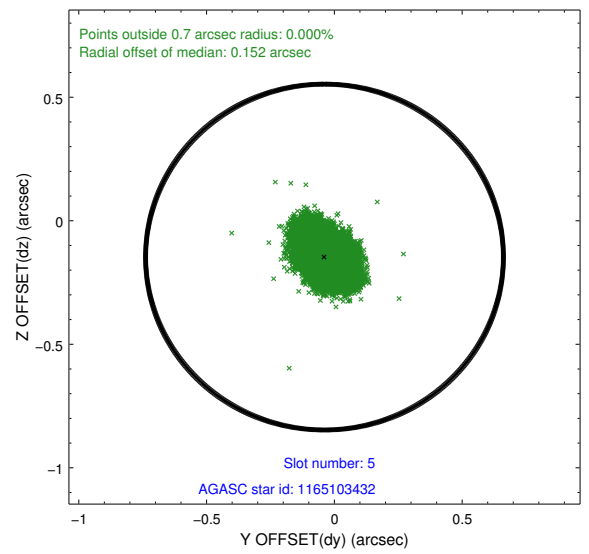
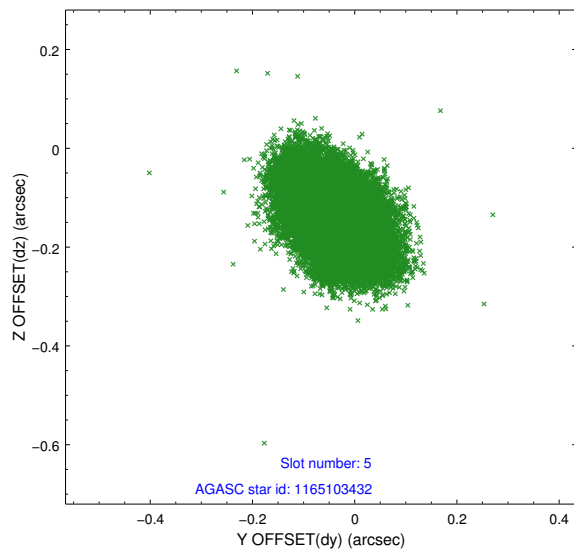
2.4.1 Slot 3



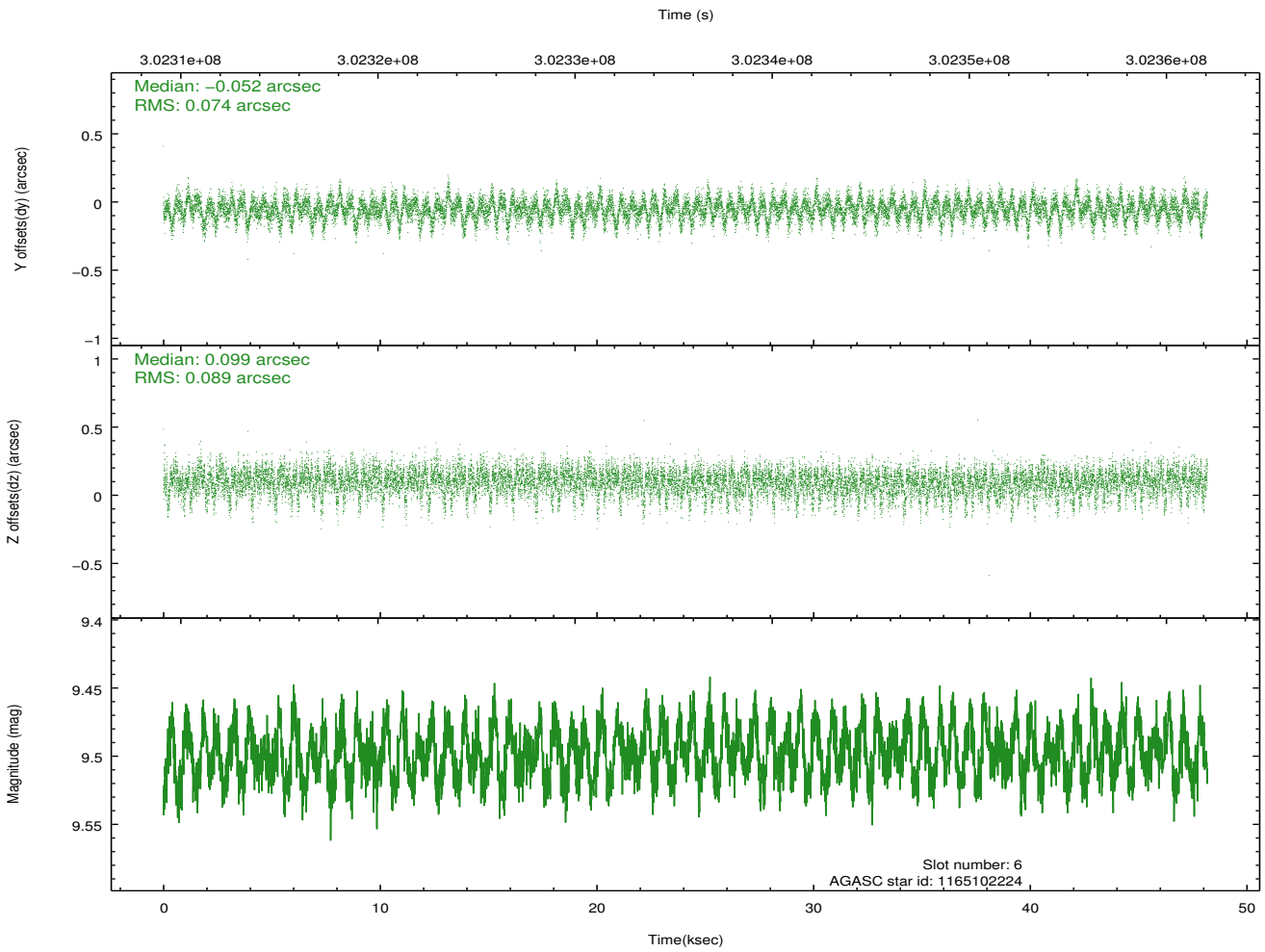
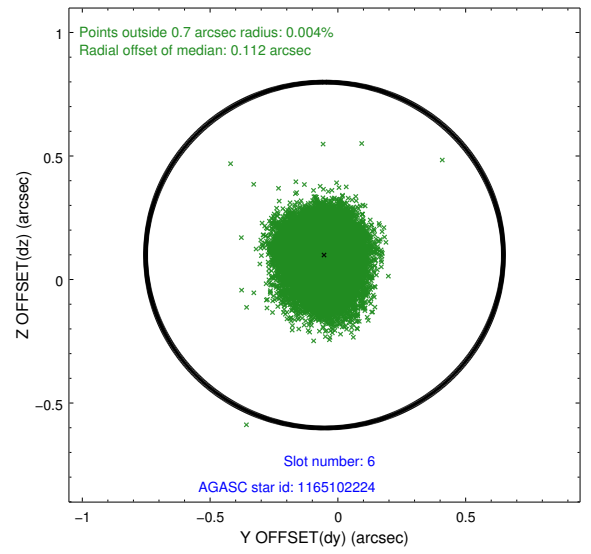
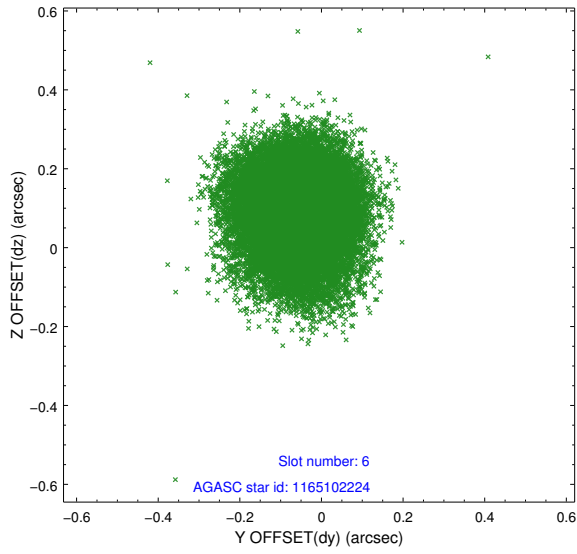
2.4.2 Slot 4



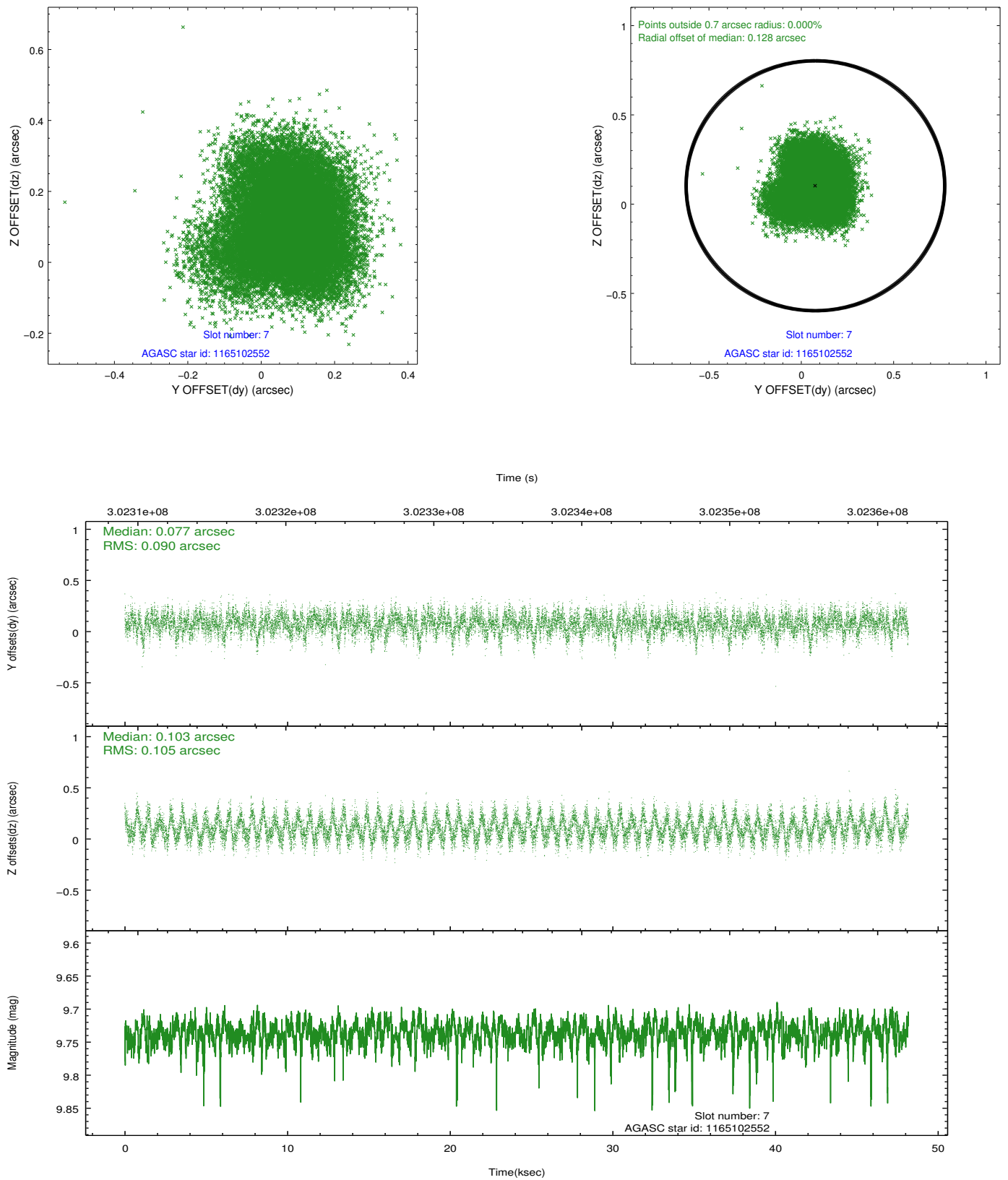
2.4.3 Slot 5



2.4.4 Slot 6

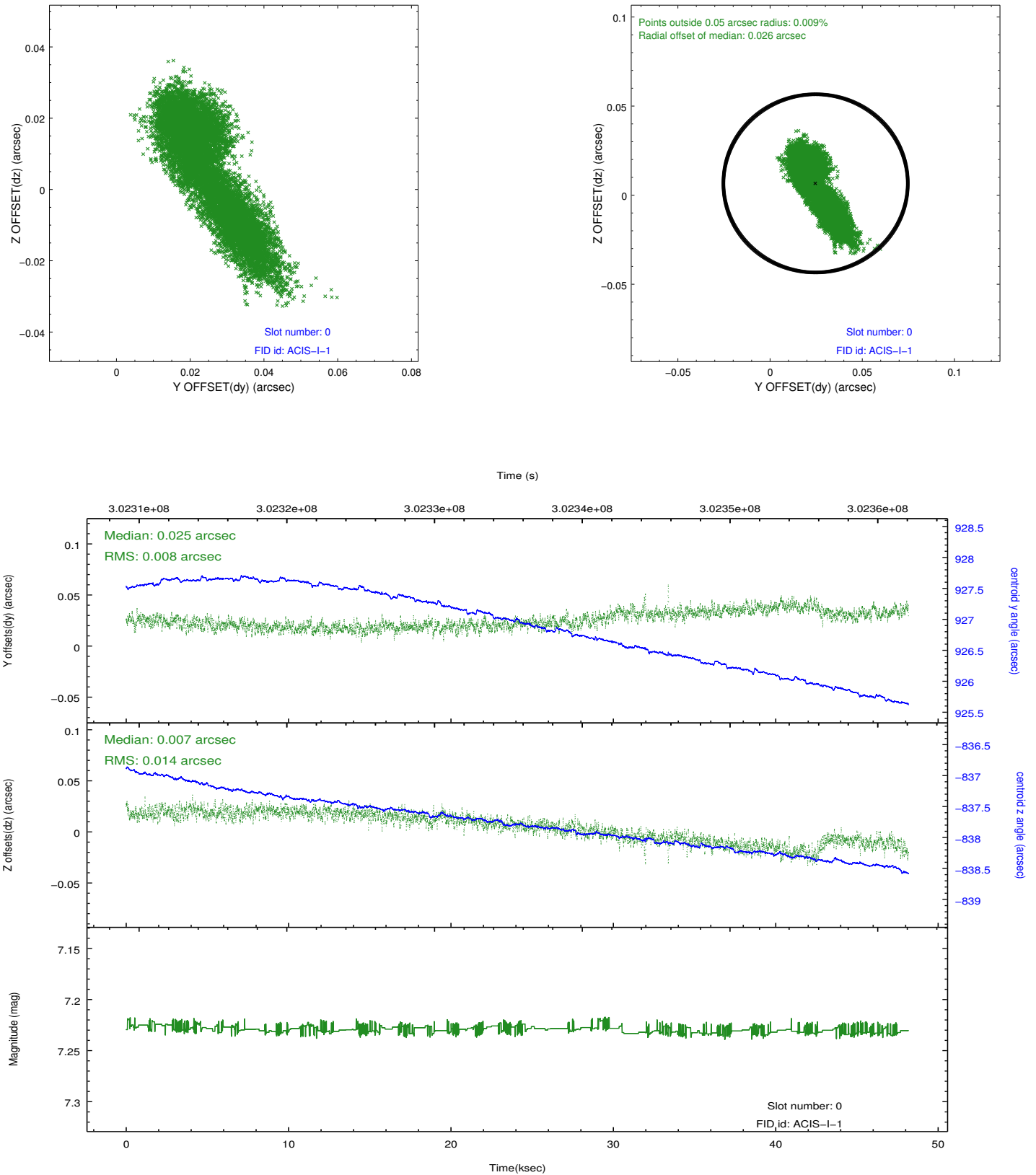


2.4.5 Slot 7

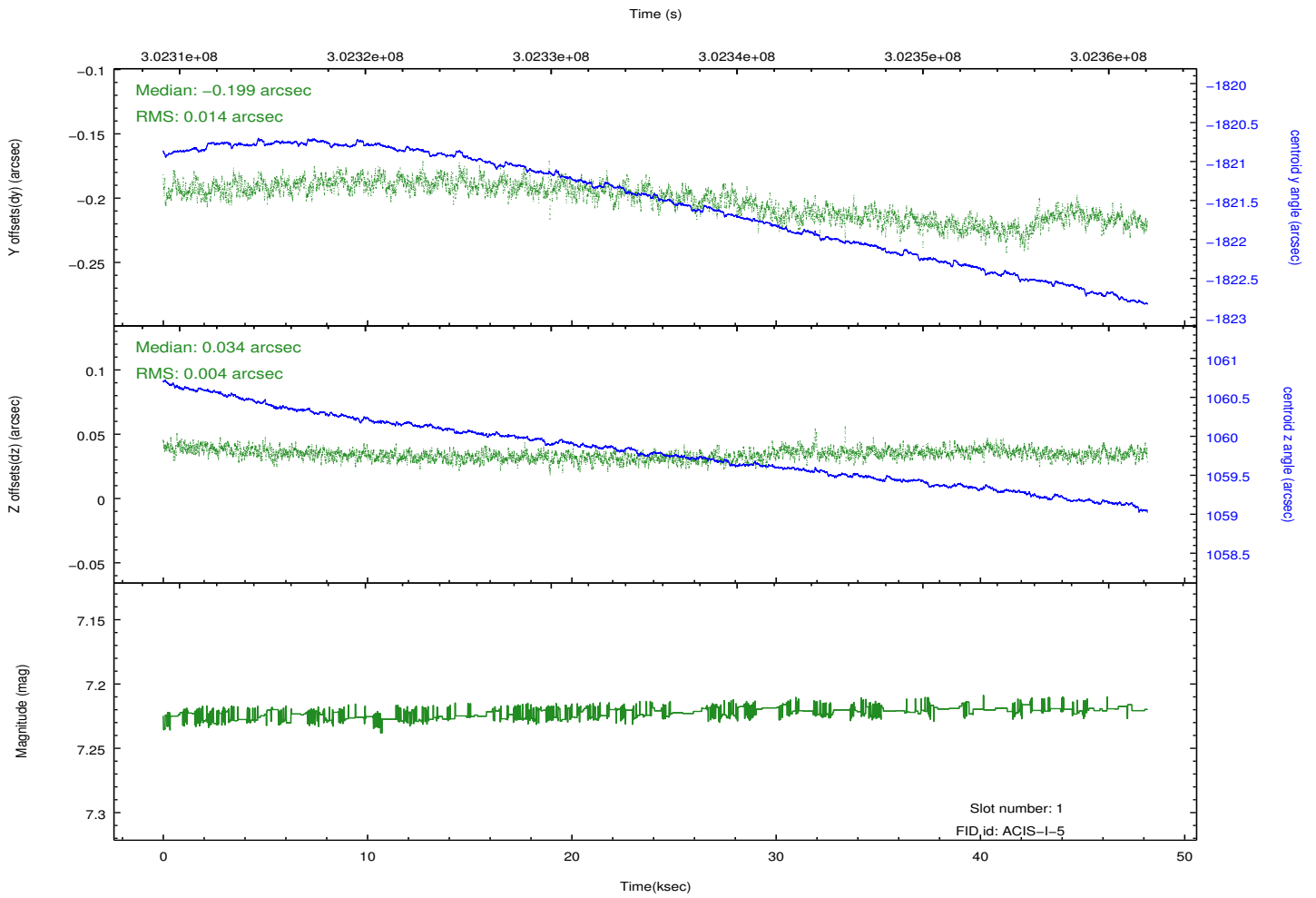
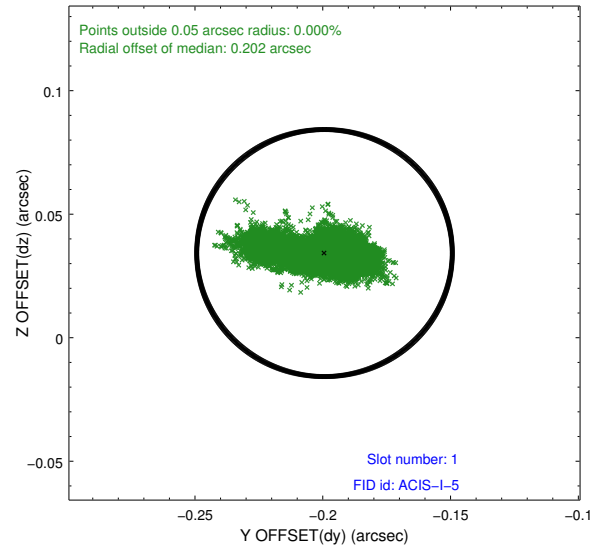
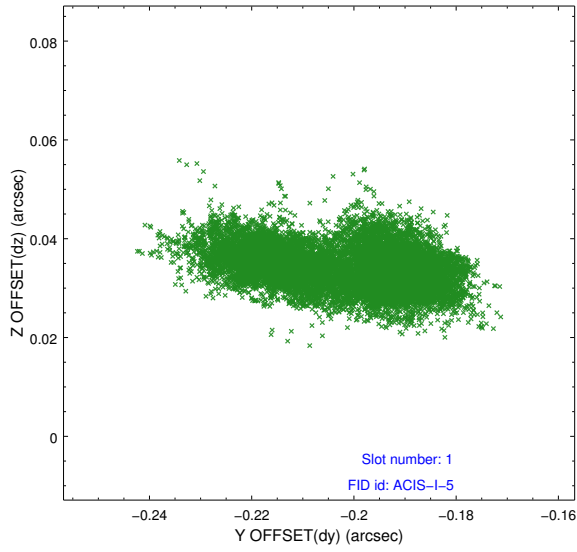


2.5 FID Slots

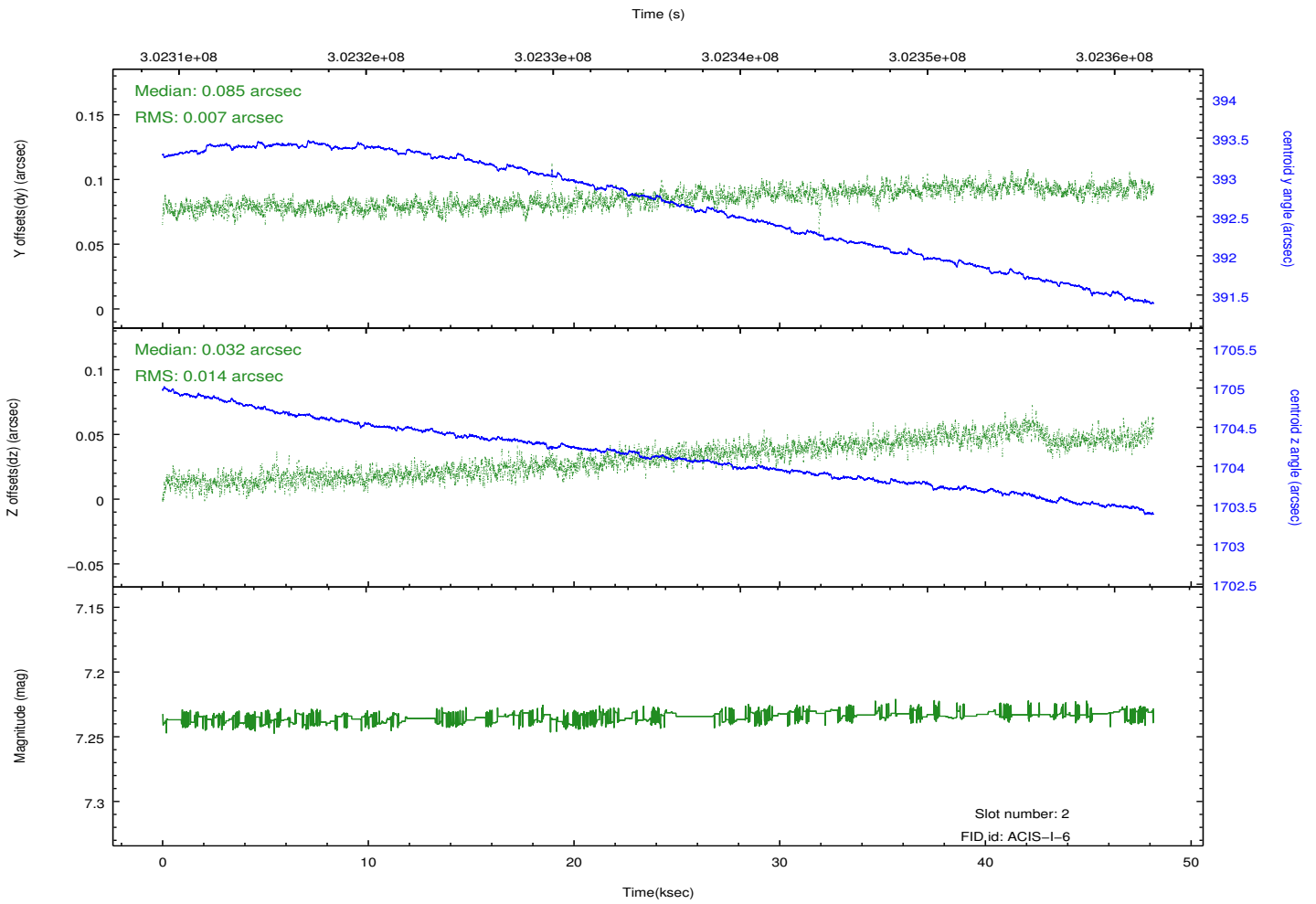
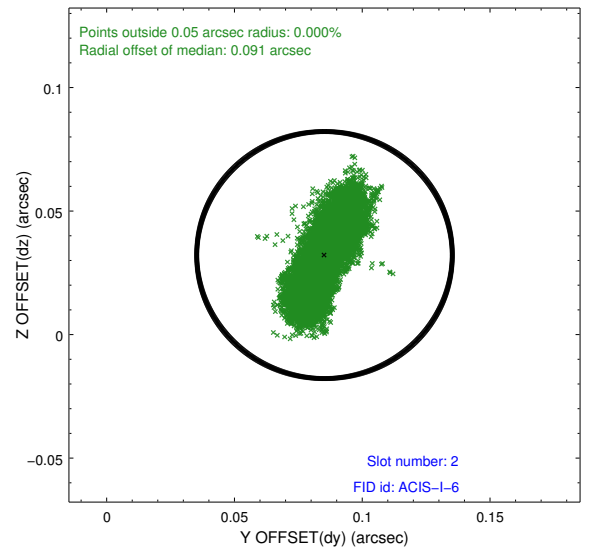
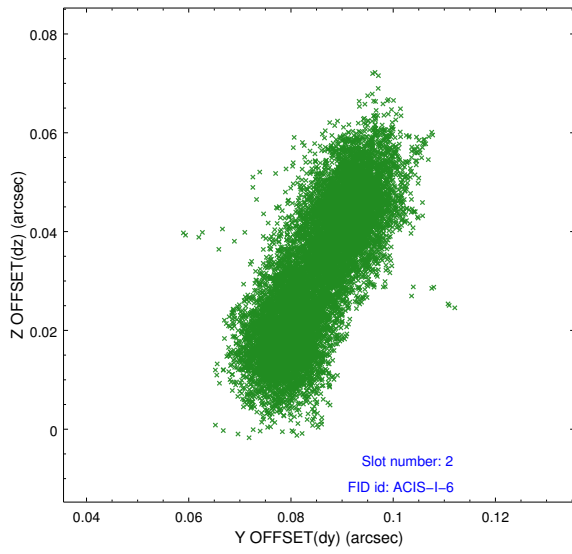
2.5.1 Slot 0



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)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.9711998

A.2 Comments

Bias map for chip 3 has a set of contiguous columns that are about 5 adu (instrument units) higher than the surrounding bias map. The affected bias map could not be successfully modified to remove this anomaly because of the large temperature difference with other observations. Care should be taken in interpretation of data on the second node of chip 3.