

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18251 - L2 Version 1
Chandra X-Ray Center

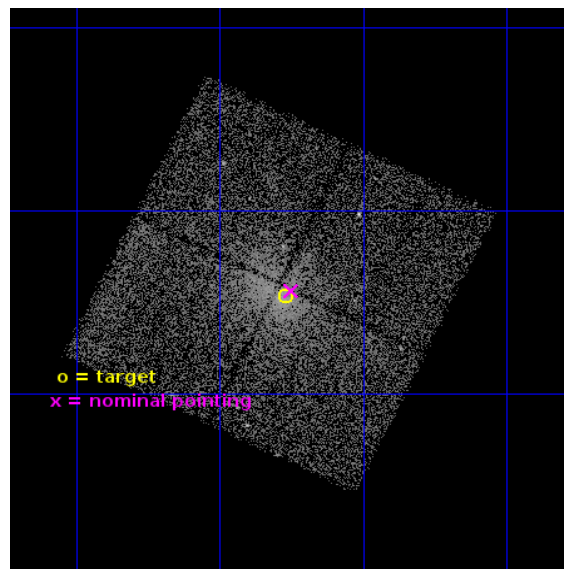
L2 Processing Date : Apr 18 2016

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

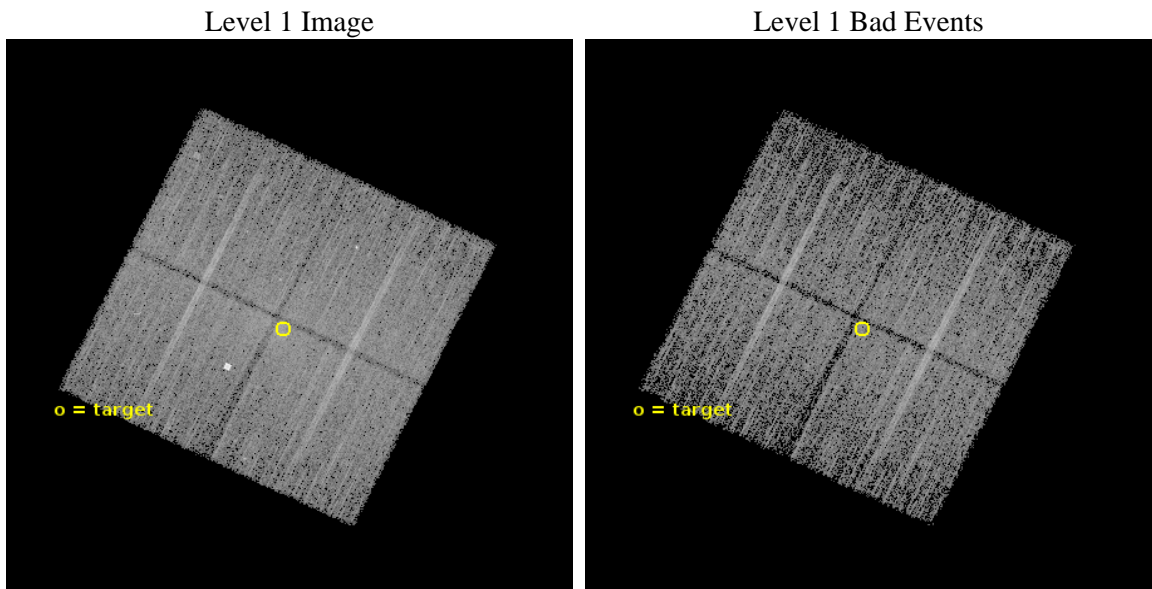
seq_num	801575	Sequence number
obs_id	18251	Observation id
title	X-ray/dynamical masses with the complete CHeCS sample	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	A2050	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	229.067917	Observer's specified target RA [deg]
dec_targ	0.089	Observer's specified target Dec [deg]
ra_nom	229.06256356942	Nominal RA [deg]
dec_nom	0.093962830709849	Nominal Dec [deg]
roll_nom	116.00132750192	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15074.329707742	Sum of GTIs [s]
livetime	14877.37249255	Livetime [s]
ontime0	15074.206587791	Sum of GTIs [s]
ontime1	15071.106567502	Sum of GTIs [s]
ontime2	15061.724456429	Sum of GTIs [s]
ontime3	15074.329707742	Sum of GTIs [s]
l2events	44309	Number of level 2 events



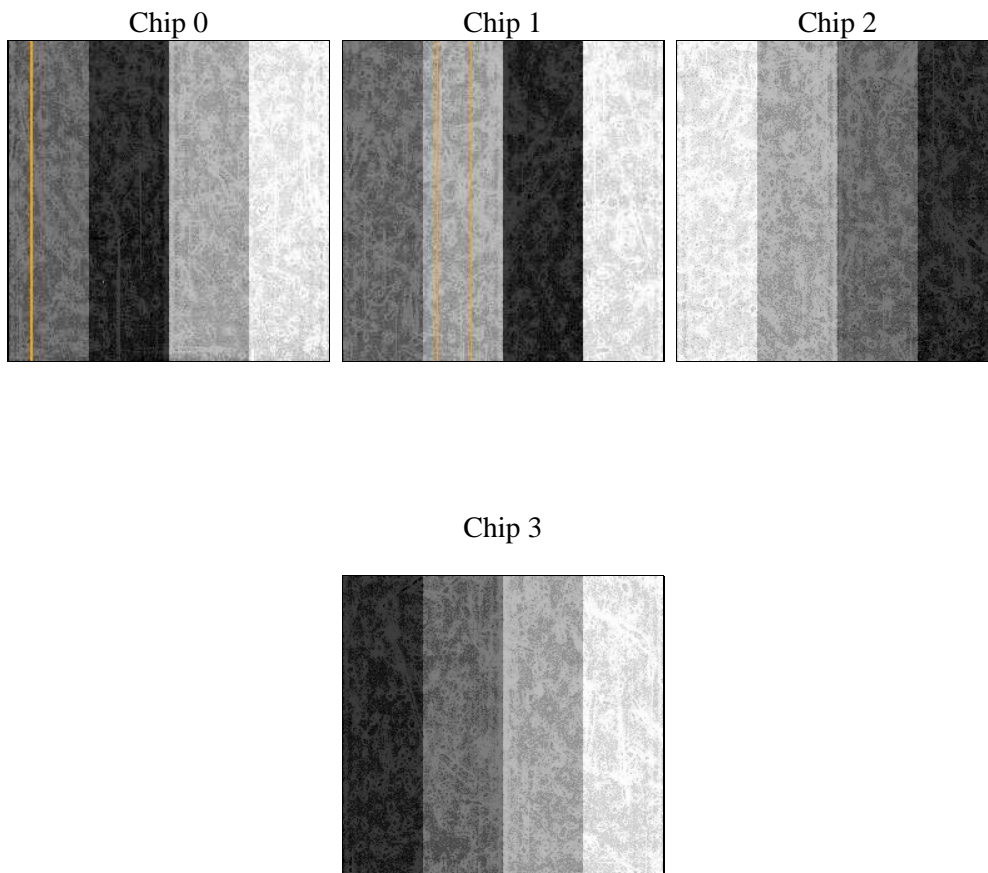
2 OBI

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	10.4.3.1	Processing system revision	ontime	15074.329707742	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	15074.206587791	Sum of GTIs [s]
date	2016-04-18T12:50:47	Date and time of file creation	ontime1	15071.106567502	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15061.724456429	Sum of GTIs [s]
			ontime3	15074.329707742	Sum of GTIs [s]
			l1events	377051	Number of level 1 events

2.1.4 Events

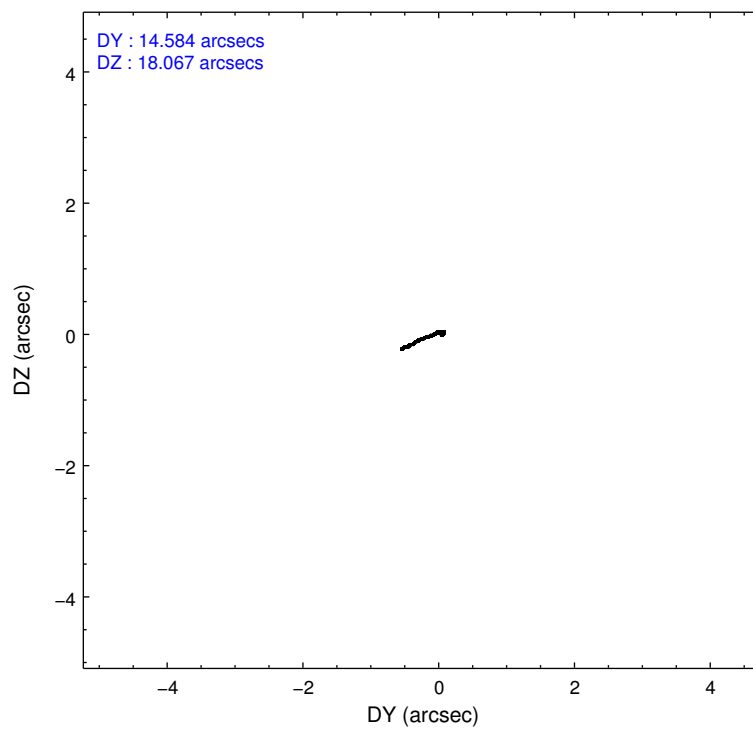
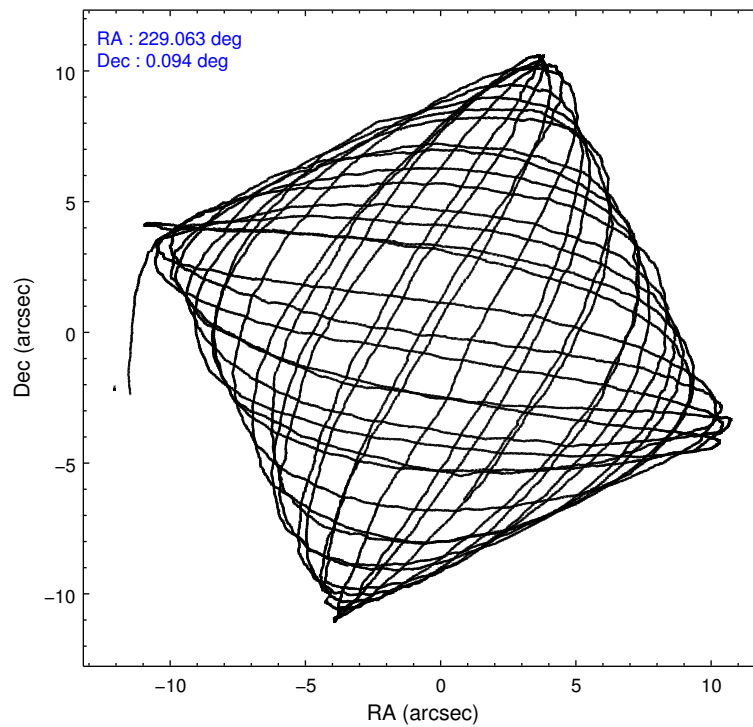
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	88617	94582	98033	95819
rejected events	76402	75463	86561	82231
rejected %	86%	79%	88%	85%

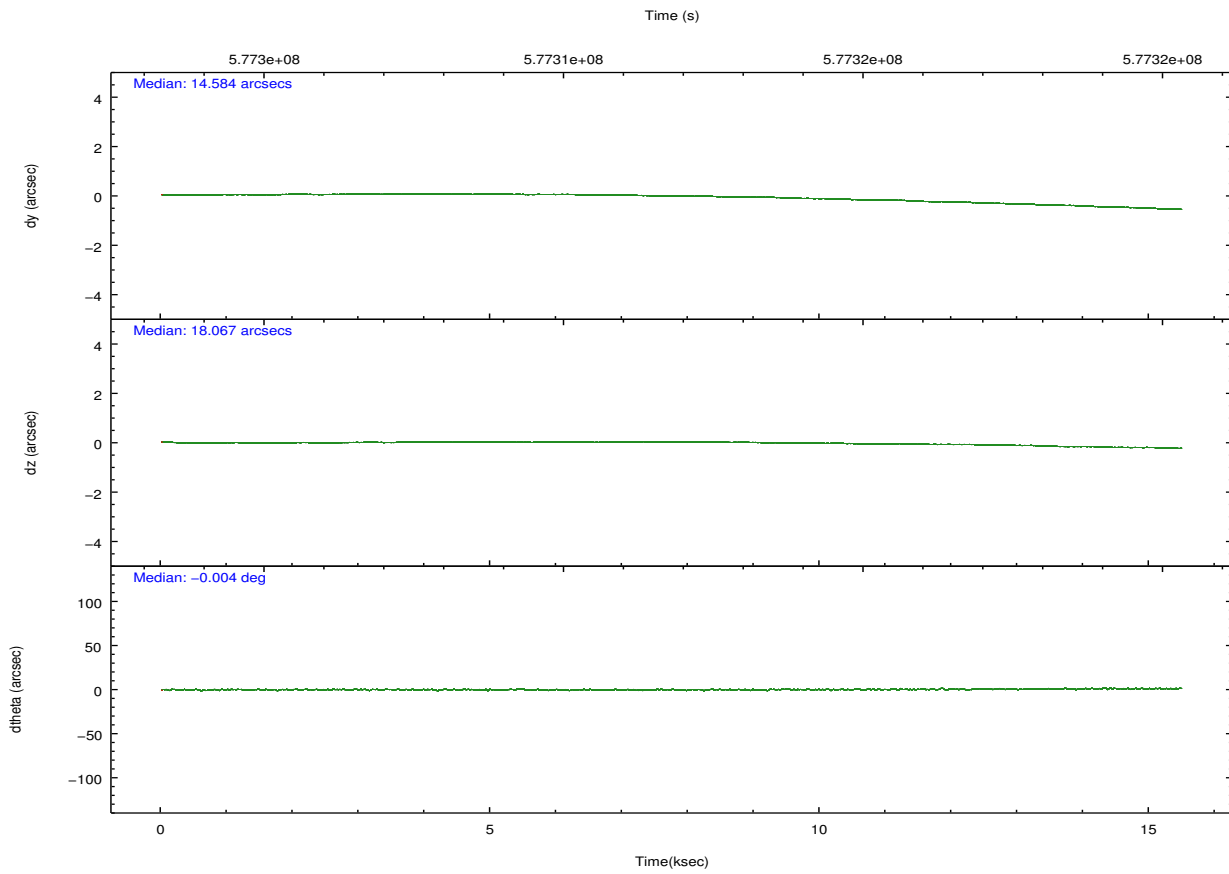
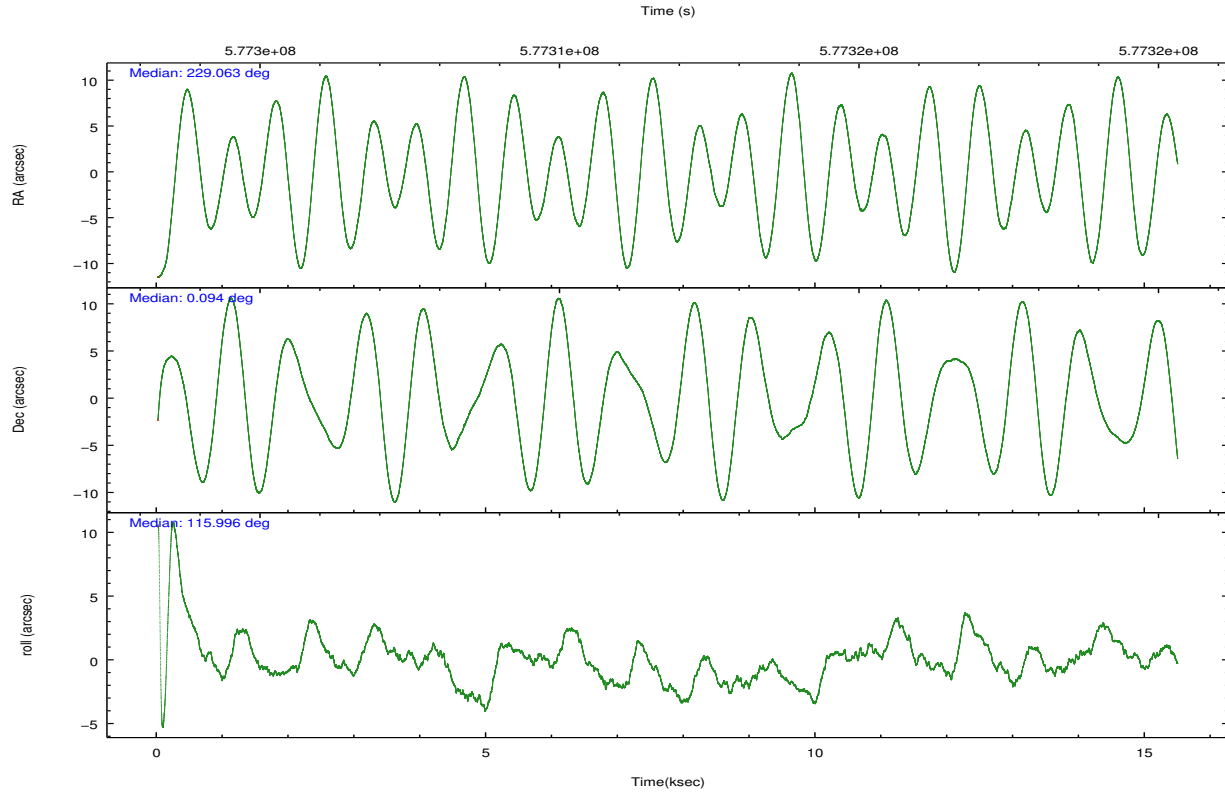
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5127	10697	4936	6477
	5%	11%	5%	6%
grade 1 events	62	82	63	75
	0%	0%	0%	0%
grade 2 events	2676	3448	2402	2442
	3%	3%	2%	2%
grade 3 events	1107	1145	1051	1211
	1%	1%	1%	1%
grade 4 events	1075	1101	1098	1180
	1%	1%	1%	1%
grade 5 events	3718	4071	3728	4411
	4%	4%	3%	4%
grade 6 events	2236	2736	1988	2285
	2%	2%	2%	2%
grade 7 events	72616	71302	82767	77738
	81%	75%	84%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	229.085521	229.0625635694188	CCD I2 on	Y	Y
[deg] Pointing Dec	0.078593	0.0939628307098489	CCD I3 on	Y	Y
[deg] Pointing Roll	115.792591	116.0013275019203	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	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	577304572.184000	577303544.3180799	CCD S5 on	N	N
Observation start date	2016-04-17T18:21:44	2016-04-17T18:05:44	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	577319572.184000	577320639.26906	On-chip summing requested	N	N
Observation end date	2016-04-17T22:31:44	2016-04-17T22:50:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





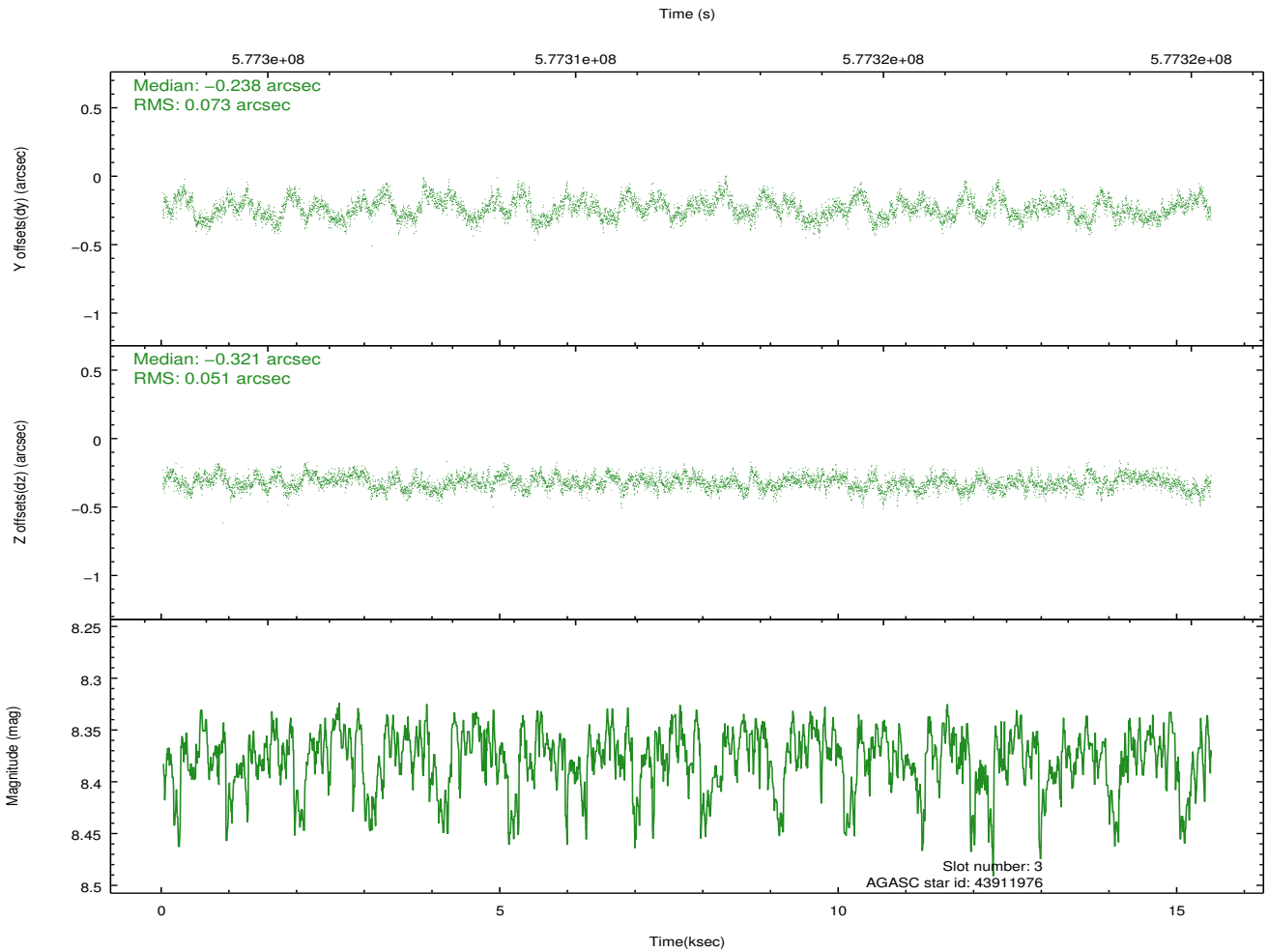
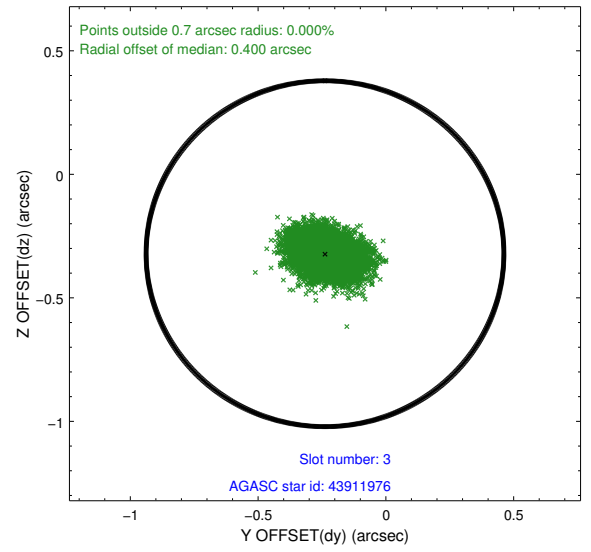
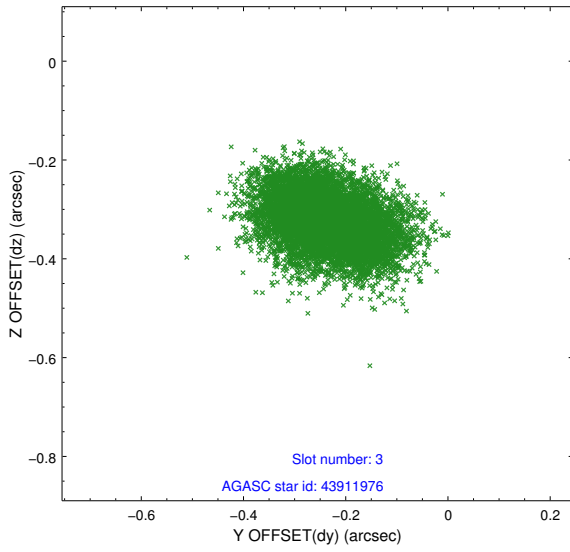
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	3777	0.073	-0.019	0.007	0.011	0.000000	0.000000	925.08	-841.71
1	FID		ACIS-I-5	7.27	3777	-0.341	0.043	0.008	0.014	0.000000	0.000000	-1823.35	1055.61
2	FID		ACIS-I-6	7.26	3777	0.176	0.046	0.009	0.014	0.000000	0.000000	390.33	1700.51
3	GUIDE	used	43911976	8.38	7546	-0.238	-0.321	0.096	0.153	228.587539	0.369595	1723.32	1158.66
4	GUIDE	used	44041888	8.79	7549	0.089	0.198	0.097	0.156	229.676408	0.118454	-795.51	-1976.93
5	GUIDE	used	44043504	9.39	7547	0.217	0.235	0.173	0.268	229.534383	0.157166	-447.79	-1577.55
6	GUIDE	used	655626240	9.02	7546	-0.019	0.082	0.189	0.271	229.662640	-0.167783	-1702.26	-1483.92
7	GUIDE	used	655626912	8.70	7543	-0.061	-0.187	0.104	0.164	229.071624	-0.169354	-781.89	433.50

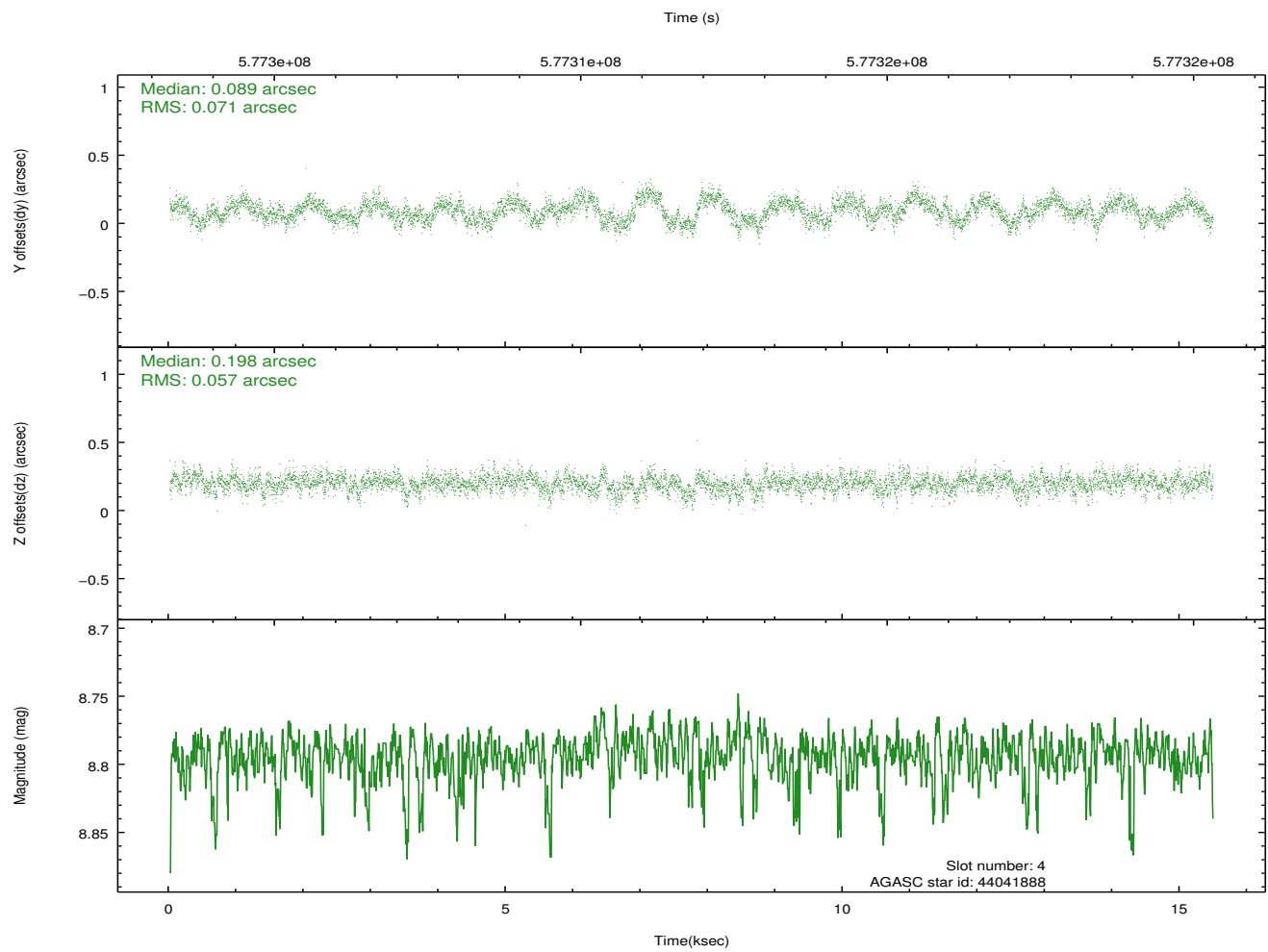
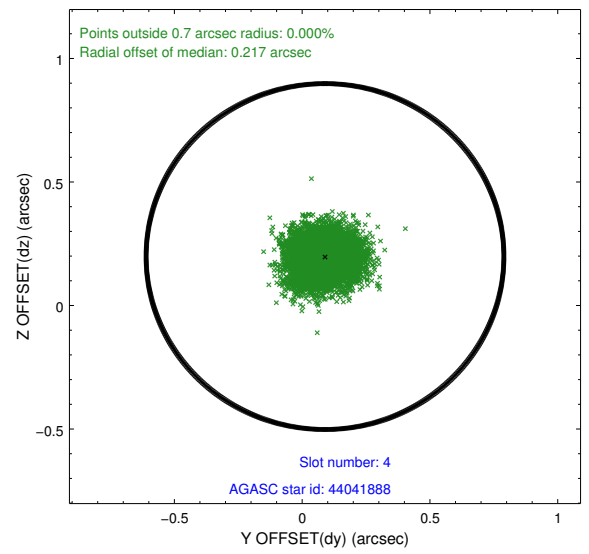
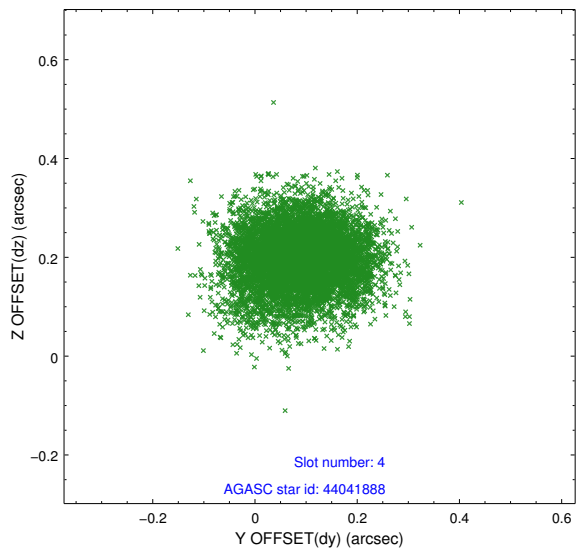
∞

2.4 Star Slots

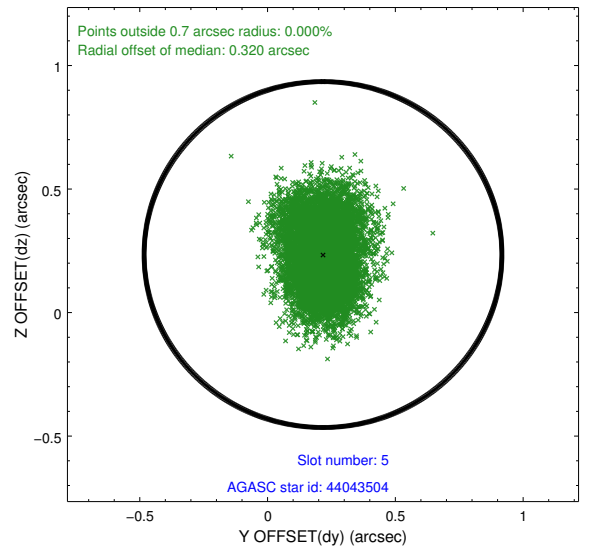
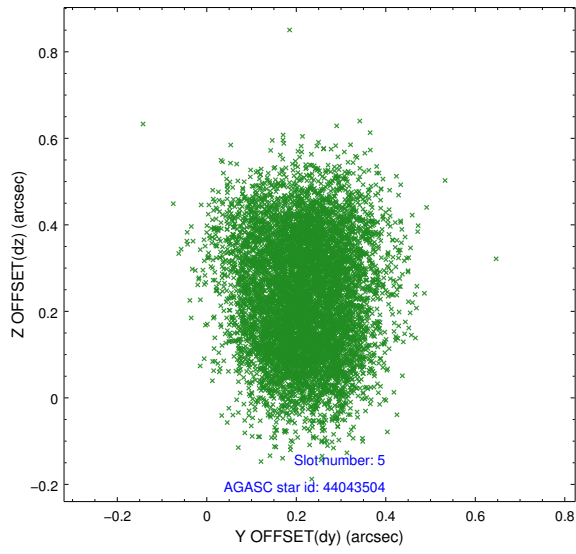
2.4.1 Slot 3



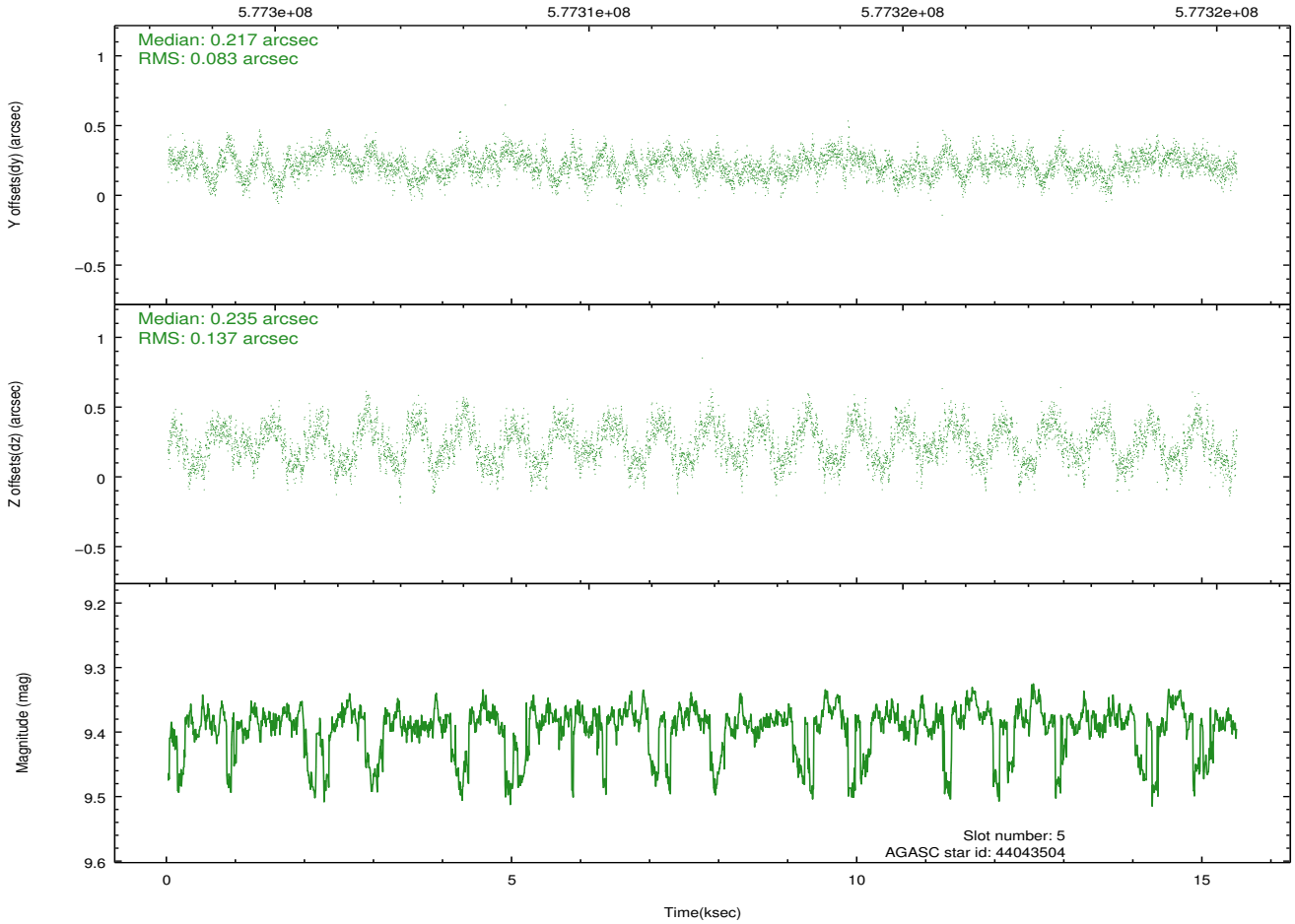
2.4.2 Slot 4



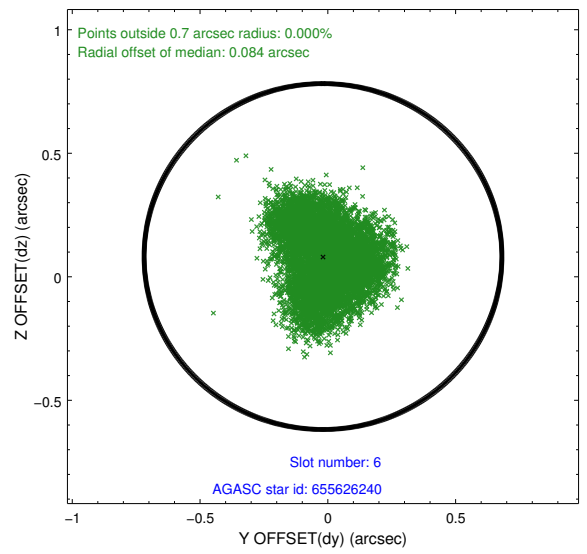
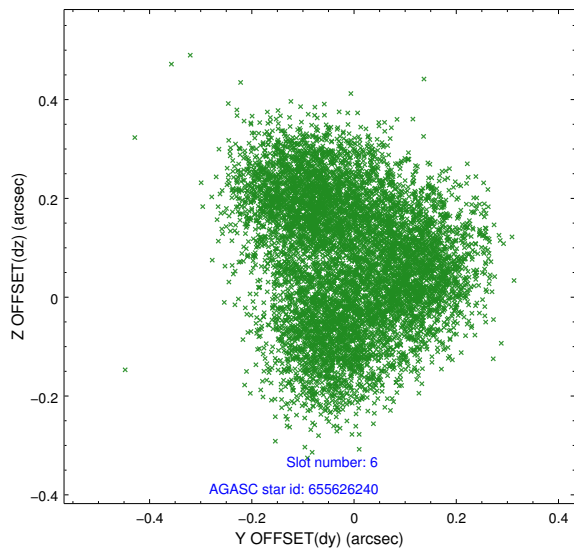
2.4.3 Slot 5



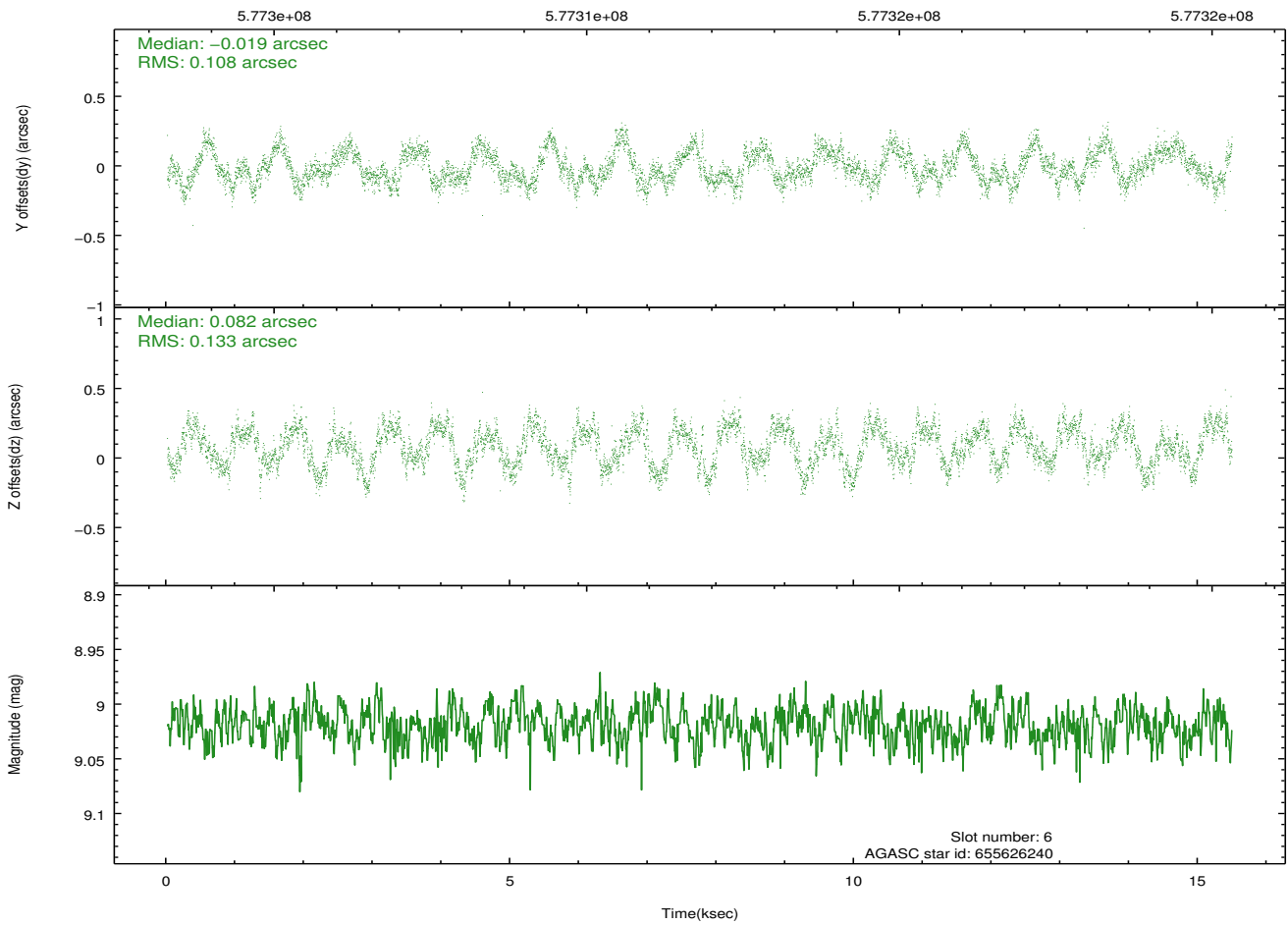
Time (s)



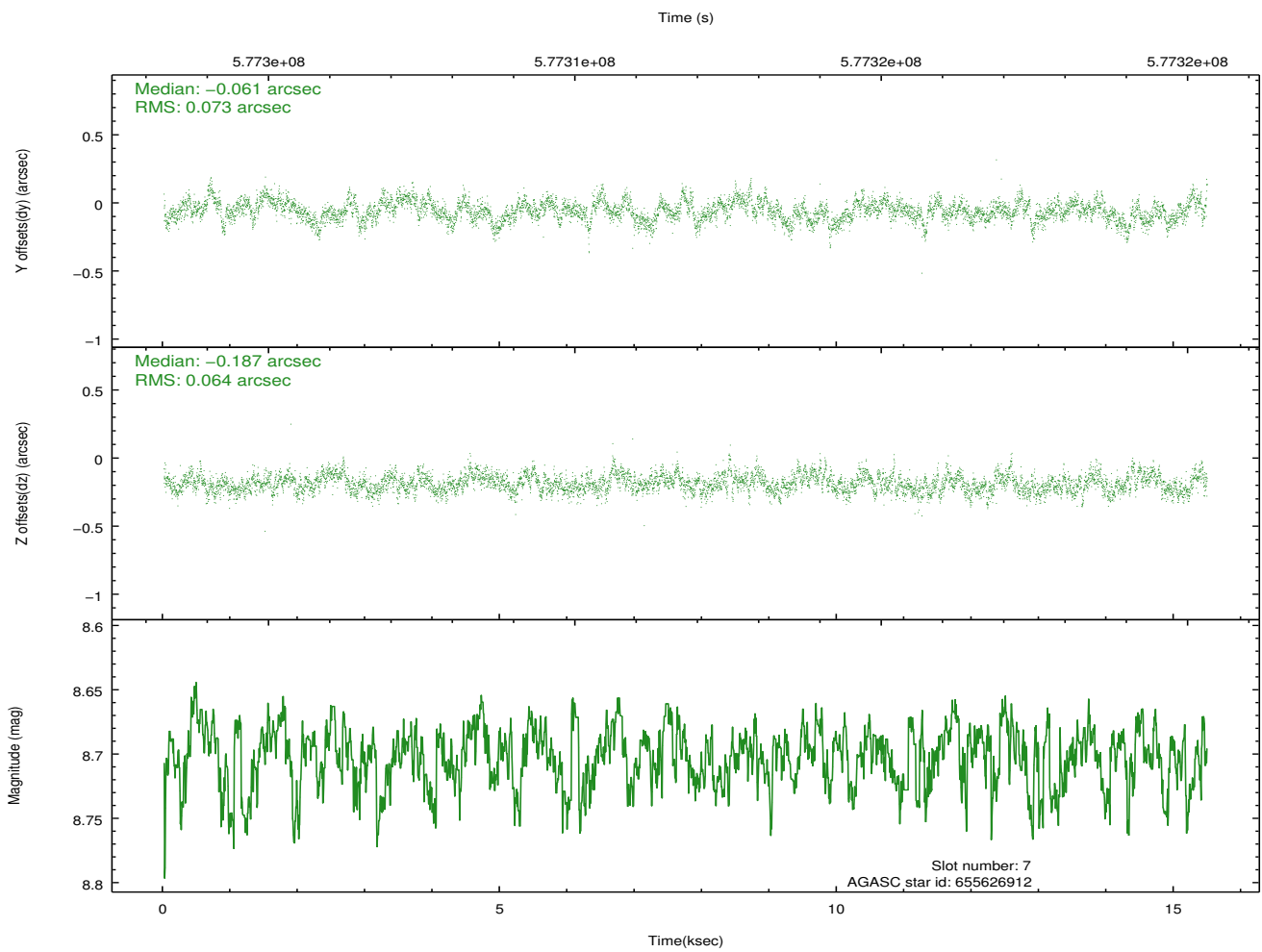
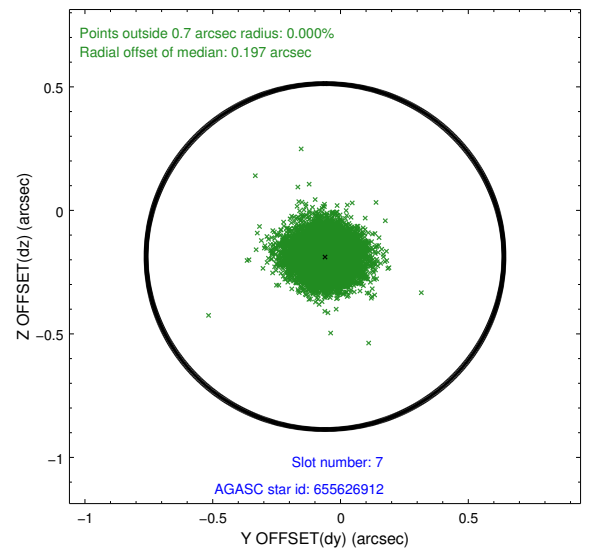
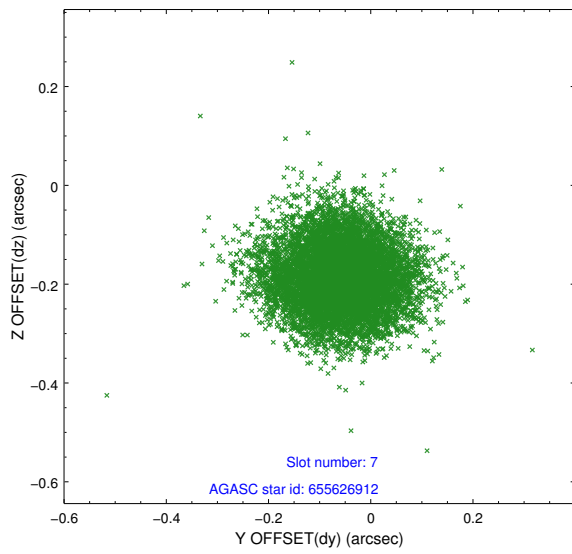
2.4.4 Slot 6



Time (s)

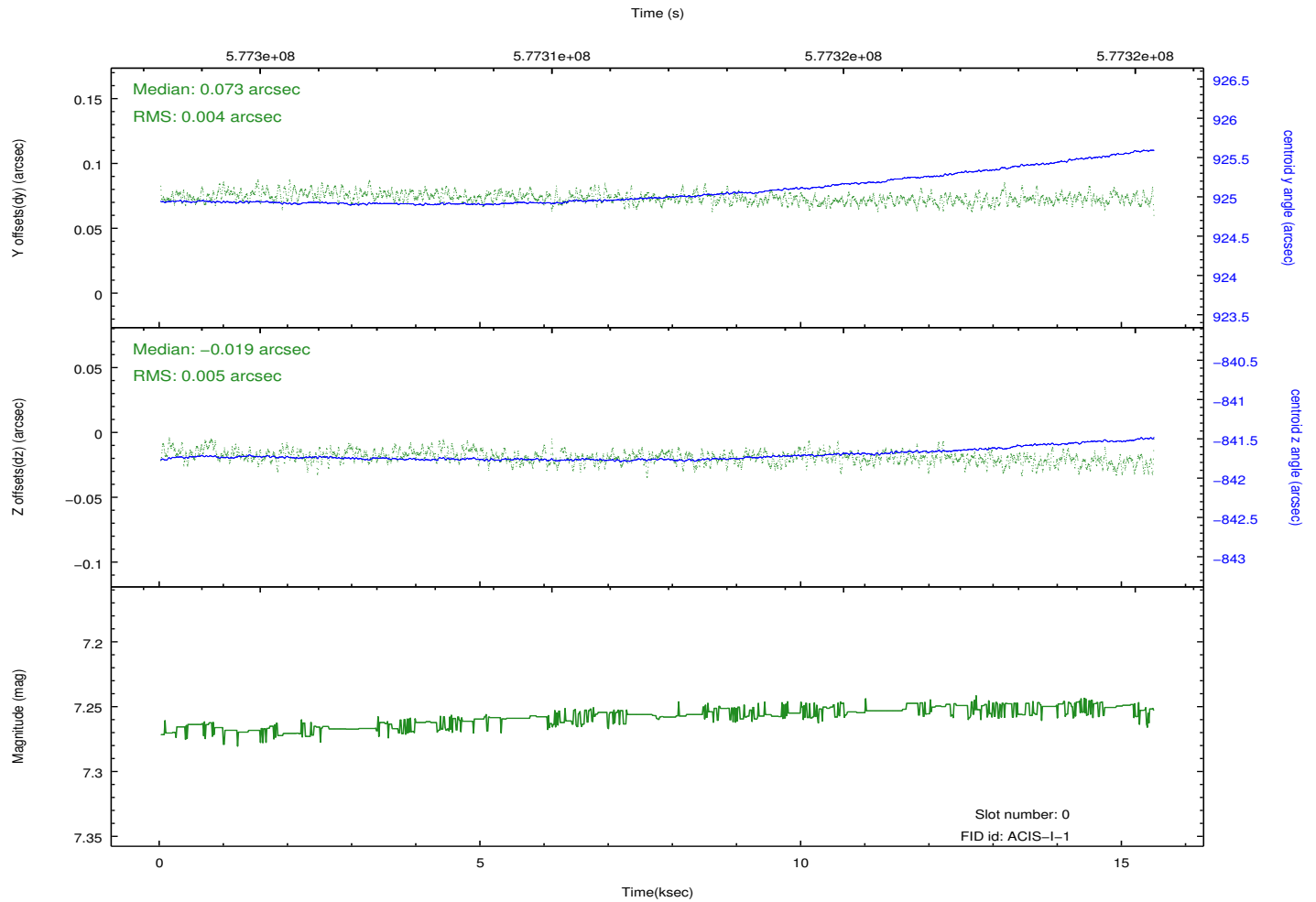
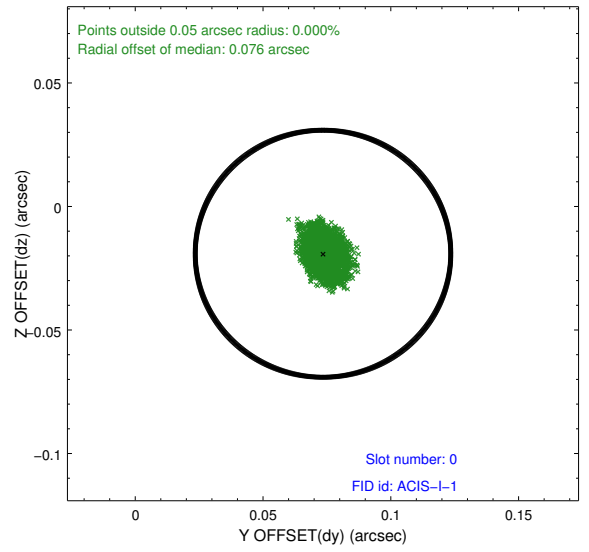
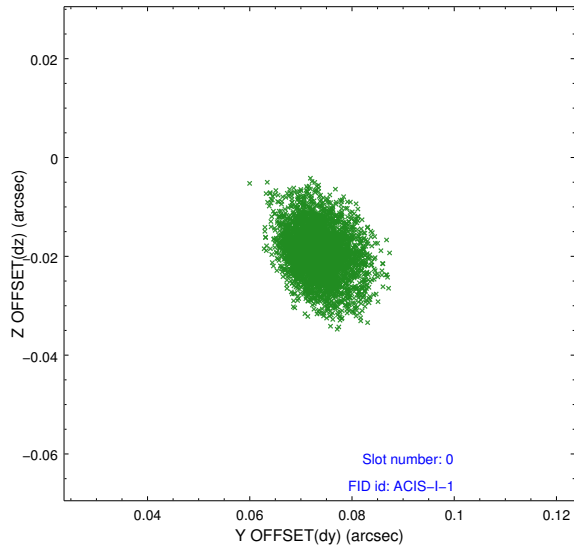


2.4.5 Slot 7

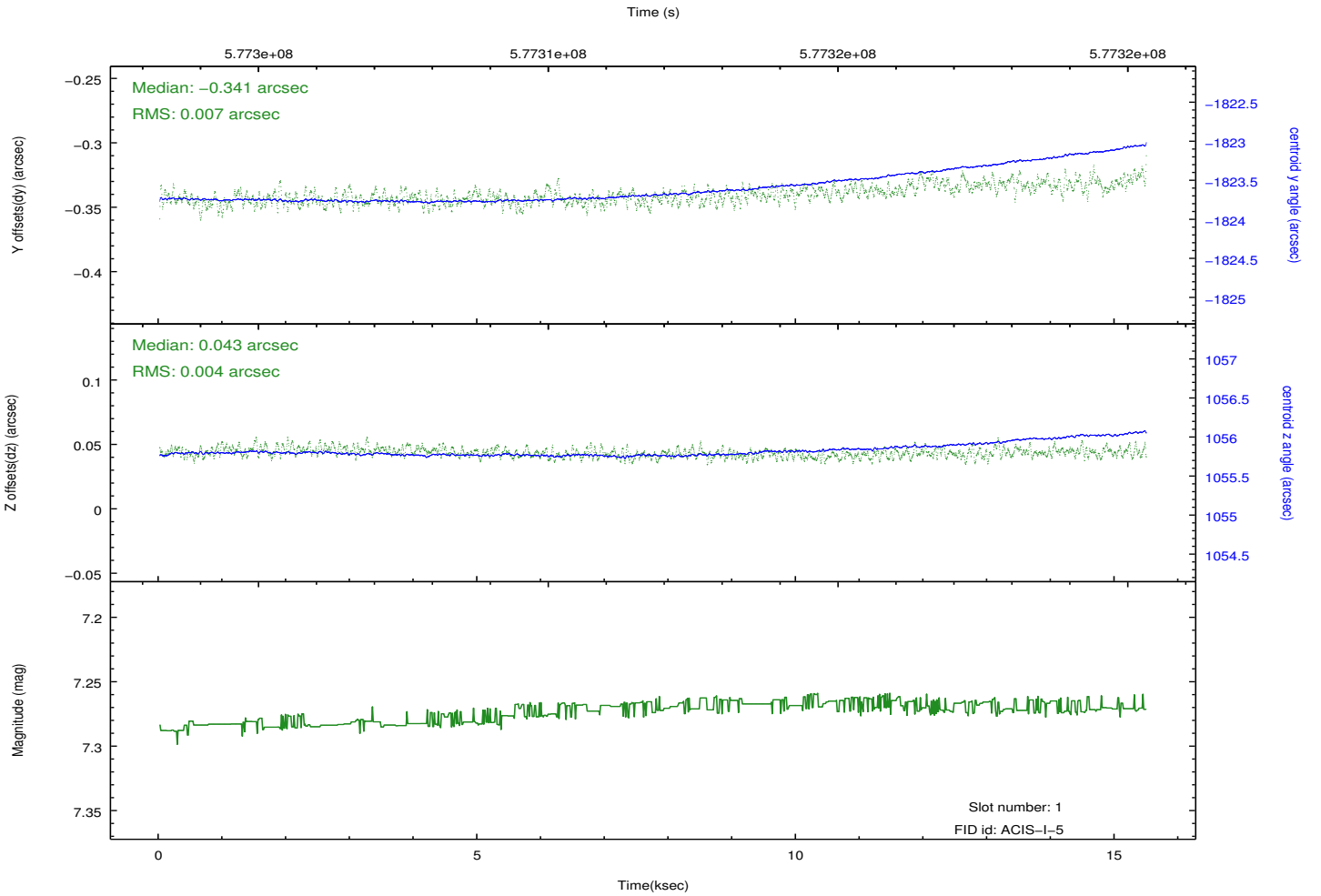
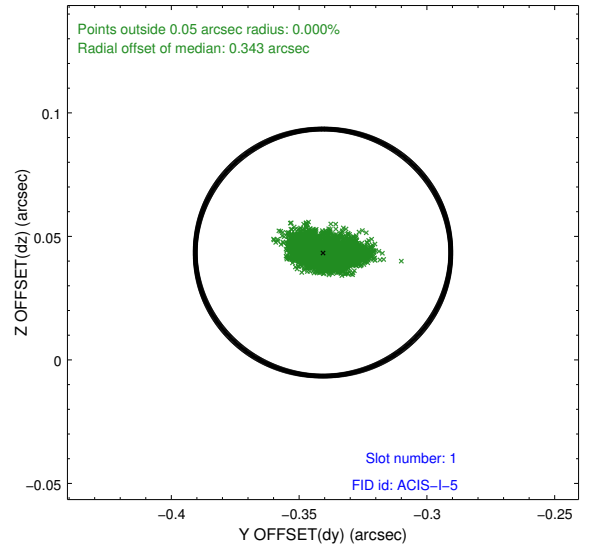
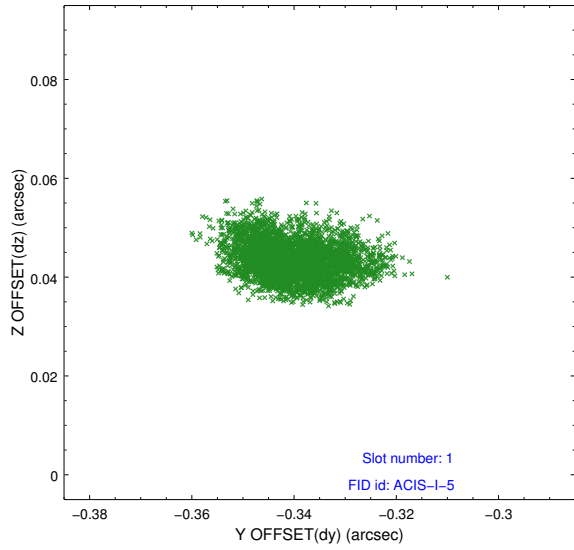


2.5 FID Slots

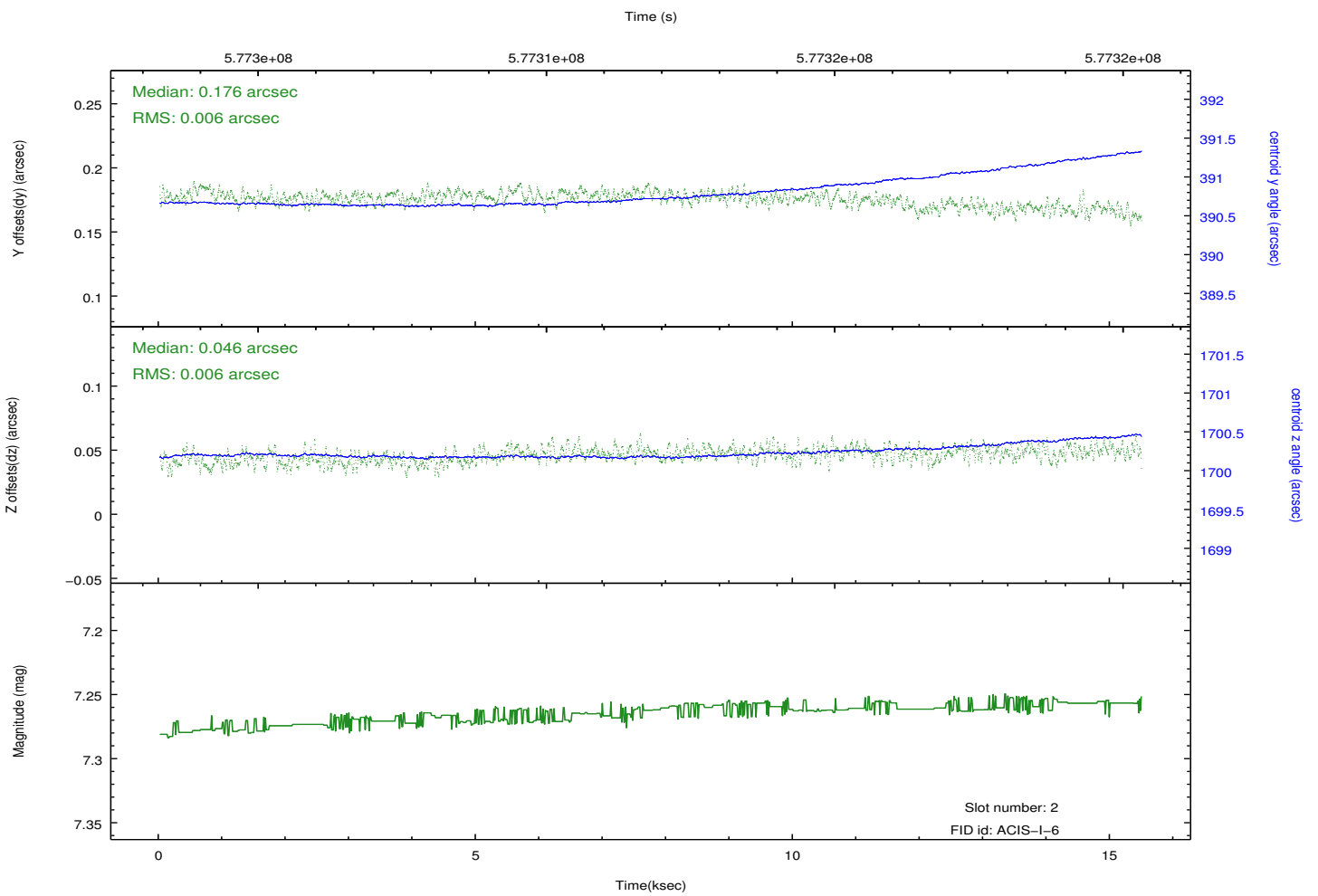
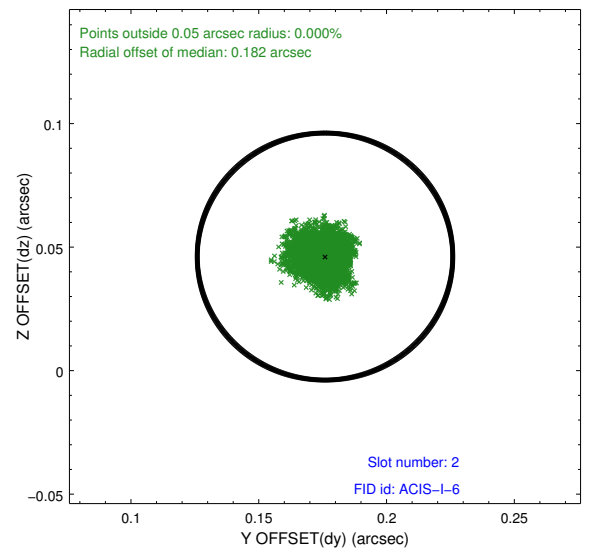
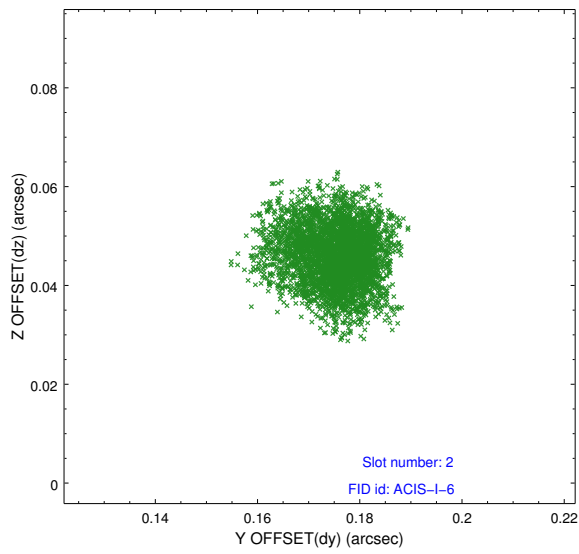
2.5.1 Slot 0



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)	2016.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.074329707742

A.2 Comments

Optional chip S2 not included.