

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18908 - L2 Version 2
Chandra X-Ray Center

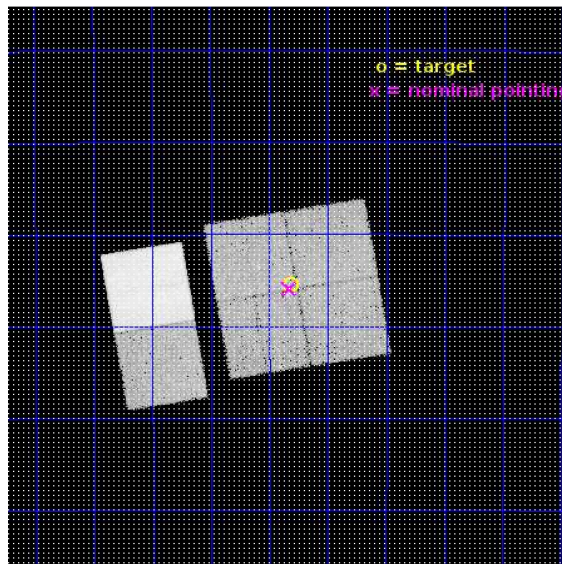
L2 Processing Date : Oct 13 2017

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1 Front

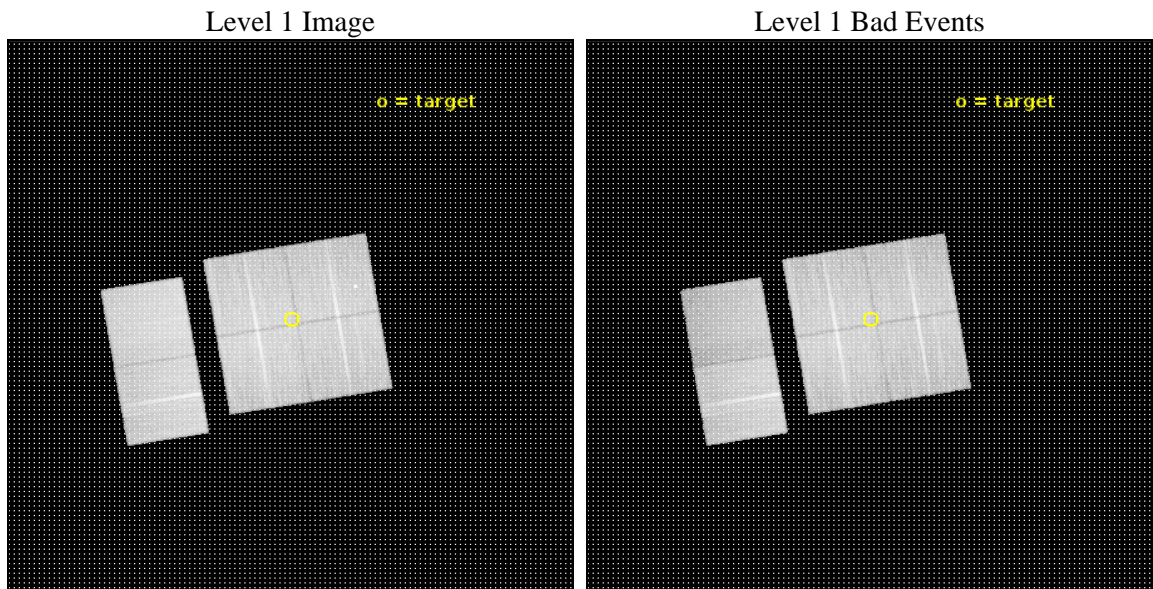
seq_num	201101	Sequence number
obs_id	18908	Observation id
title	X-raying the Bones of the Milky Way	Proposal title
observer	Leisa Townsley	Principal investigator
object	G352.015+0.705	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.579167	Observer's specified target RA [deg]
dec_targ	-35.257778	Observer's specified target Dec [deg]
ra_nom	260.58205771377	Nominal RA [deg]
dec_nom	-35.265250167335	Nominal Dec [deg]
roll_nom	260.49905978994	Nominal Roll [deg]
revision	2	Processing version of data
ontime	37452.759557724	Sum of GTIs [s]
livetime	36978.51016486	Livetime [s]
ontime0	37456.000558138	Sum of GTIs [s]
ontime1	37449.518557549	Sum of GTIs [s]
ontime2	37456.000558138	Sum of GTIs [s]
ontime3	37452.759557724	Sum of GTIs [s]
ontime6	37452.759577751	Sum of GTIs [s]
ontime7	37456.000558138	Sum of GTIs [s]
l2events	226444	Number of level 2 events



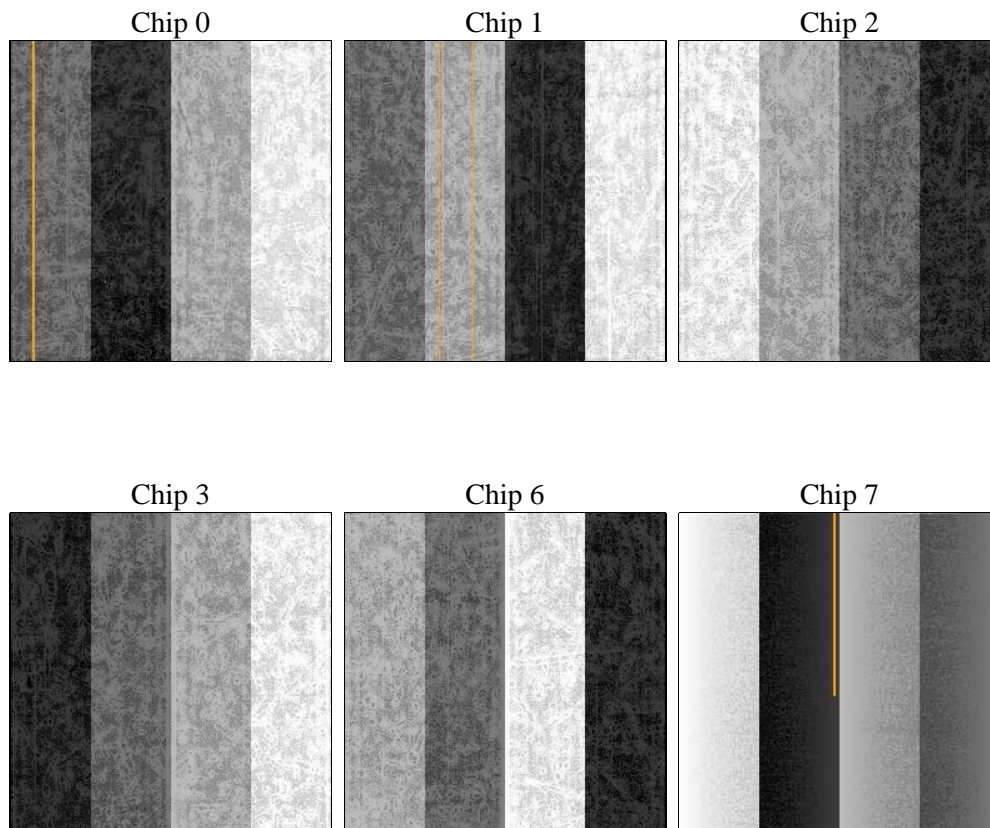
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37500.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	37452.759557724	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	37456.000558138	Sum of GTIs [s]
date	2017-10-13T13:45:08	Date and time of file creation	ontime1	37449.518557549	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	37456.000558138	Sum of GTIs [s]
			ontime3	37452.759557724	Sum of GTIs [s]
			ontime6	37452.759577751	Sum of GTIs [s]
			ontime7	37456.000558138	Sum of GTIs [s]
			l1events	1399969	Number of level 1 events

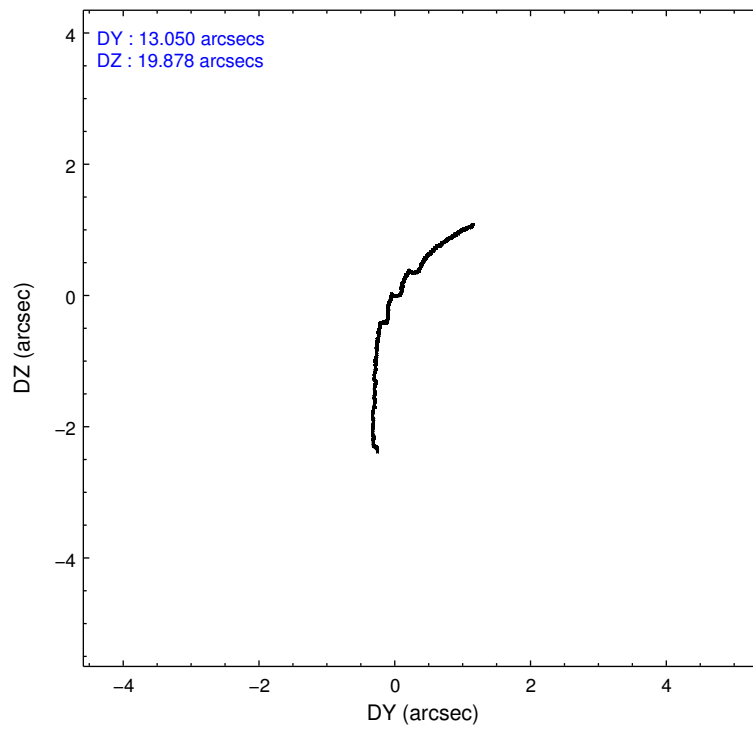
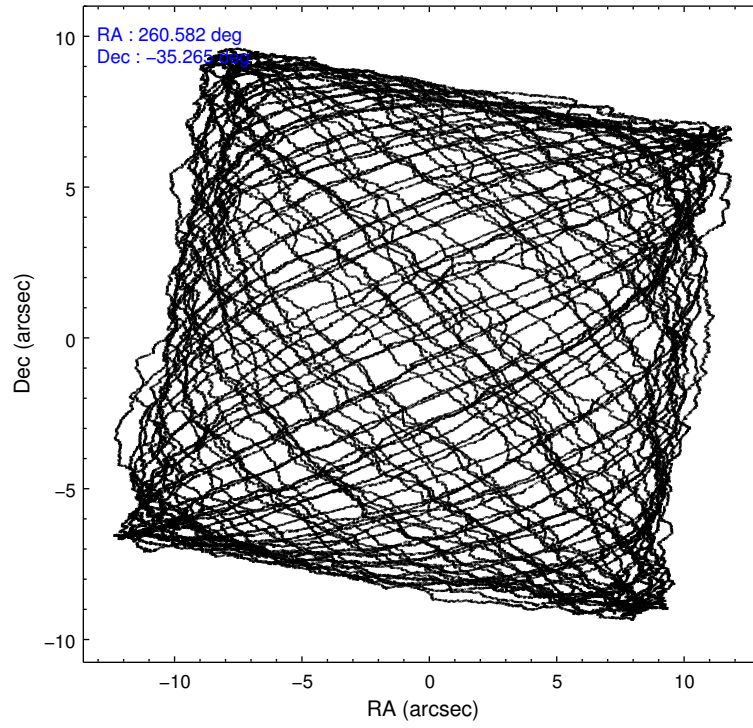
2.1.4 Events

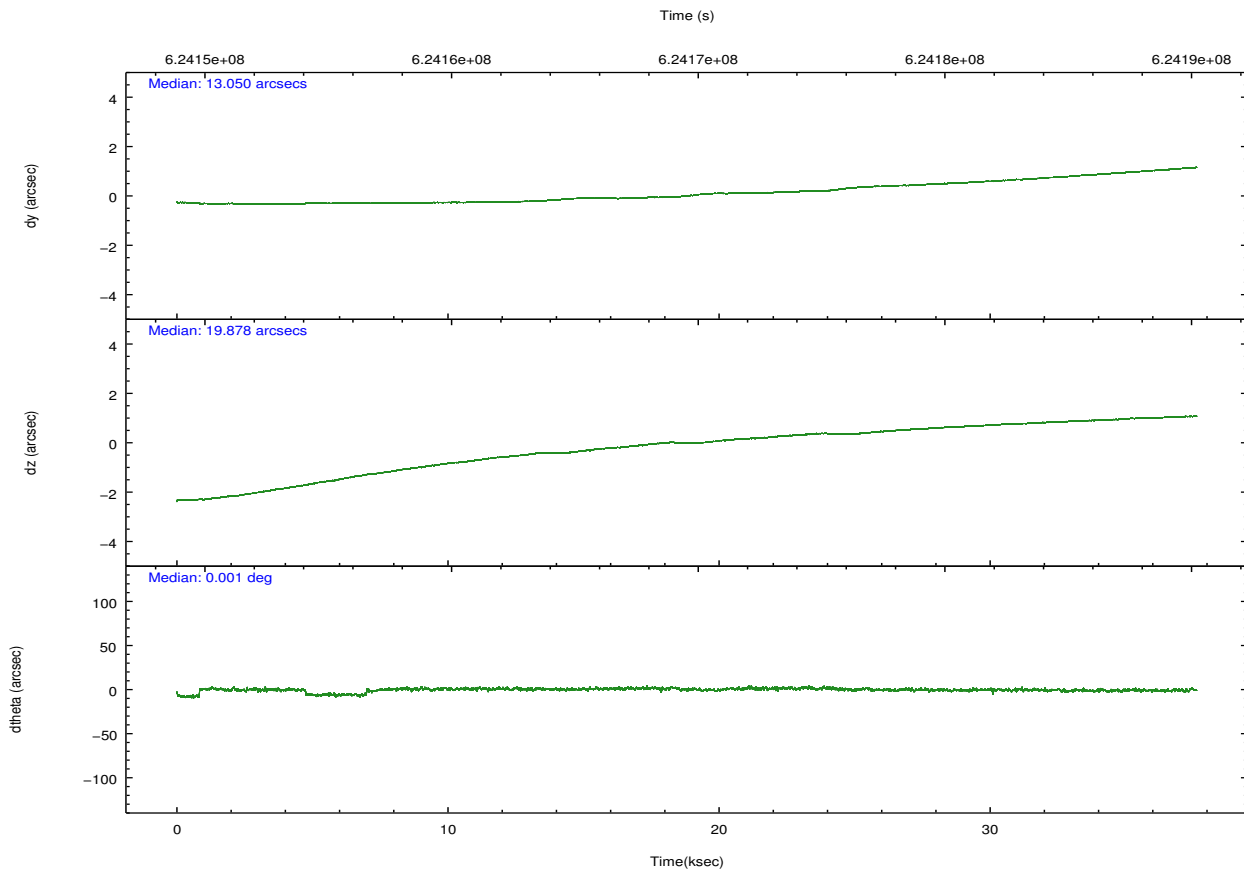
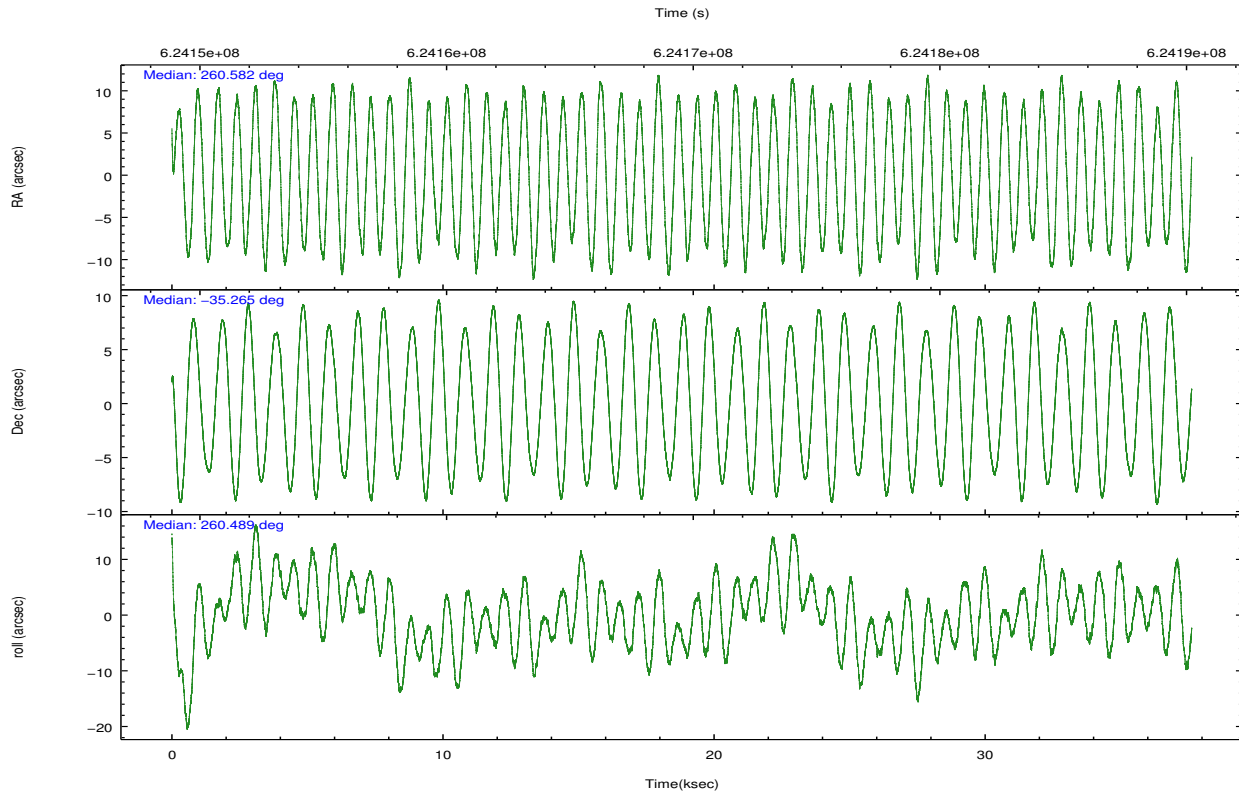
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	215672	216045	237274	231120	241365	258493	grade 0 events	9407	10089	9544	9299	9094	11521
rejected events	189837	188206	212217	206480	214722	136389		4%	4%	4%	4%	3%	4%
rejected %	88%	87%	89%	89%	88%	52%	grade 1 events	115	128	146	135	140	414
								0%	0%	0%	0%	0%	0%
							grade 2 events	6492	6519	6255	5397	6576	26773
								3%	3%	2%	2%	2%	10%
							grade 3 events	2525	2614	2305	2555	2460	10204
								1%	1%	0%	1%	1%	3%
							grade 4 events	2461	2668	2469	2455	2464	10094
								1%	1%	1%	1%	1%	3%
							grade 5 events	8315	8793	7618	9518	9619	26768
								3%	4%	3%	4%	3%	10%
							grade 6 events	4953	5955	4486	4938	6050	63529
								2%	2%	1%	2%	2%	24%
							grade 7 events	181404	179279	204451	196823	204962	109190
								84%	82%	86%	85%	84%	42%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	260.570117	260.5820577137728	CCD I2 on	Y	Y
[deg] Pointing Dec	-35.239410	-35.26525016733486	CCD I3 on	Y	Y
[deg] Pointing Roll	260.283479	260.4990597899426	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)	624150848.184000	624149691.41609	CCD S5 on	N	N
Observation start date	2017-10-11T23:12:59	2017-10-11T22:54:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	624188348.184000	624189788.9059401	On-chip summing requested	N	N
Observation end date	2017-10-12T09:37:59	2017-10-12T10:03:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



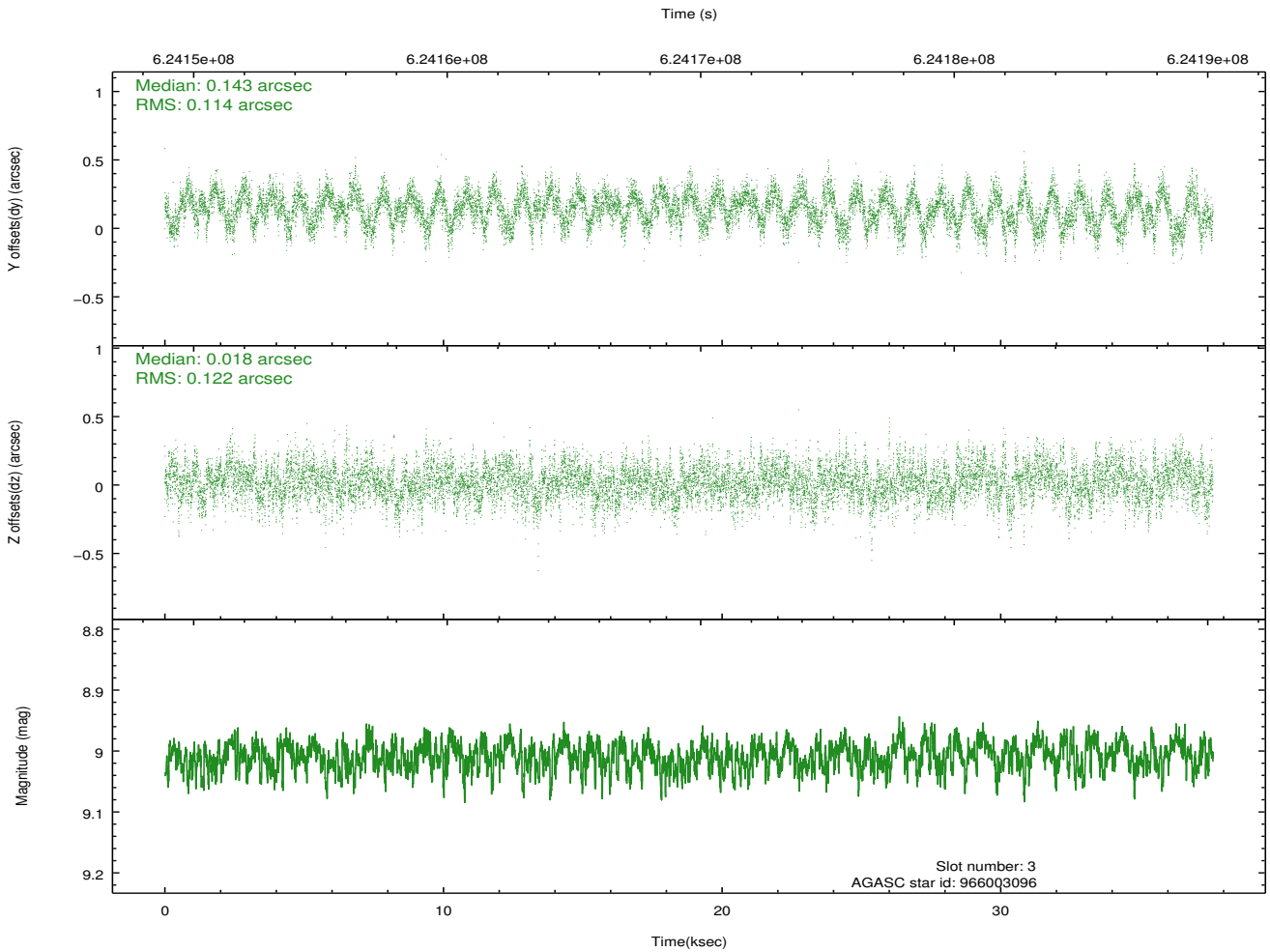
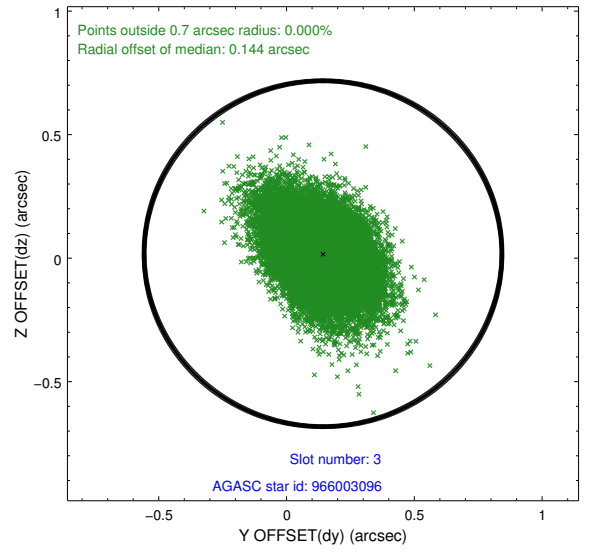
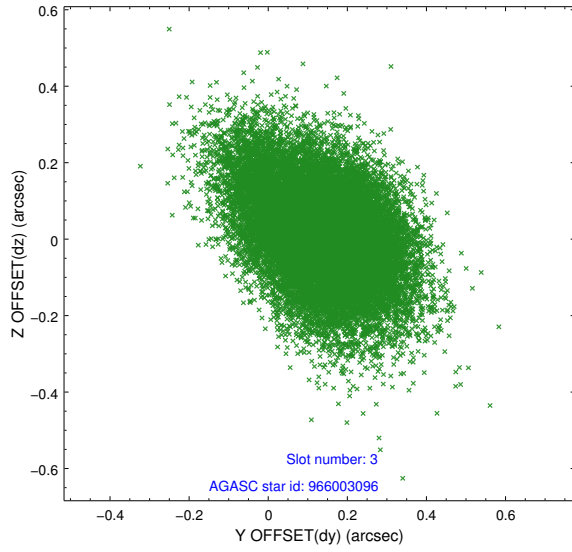


Slot Statistics

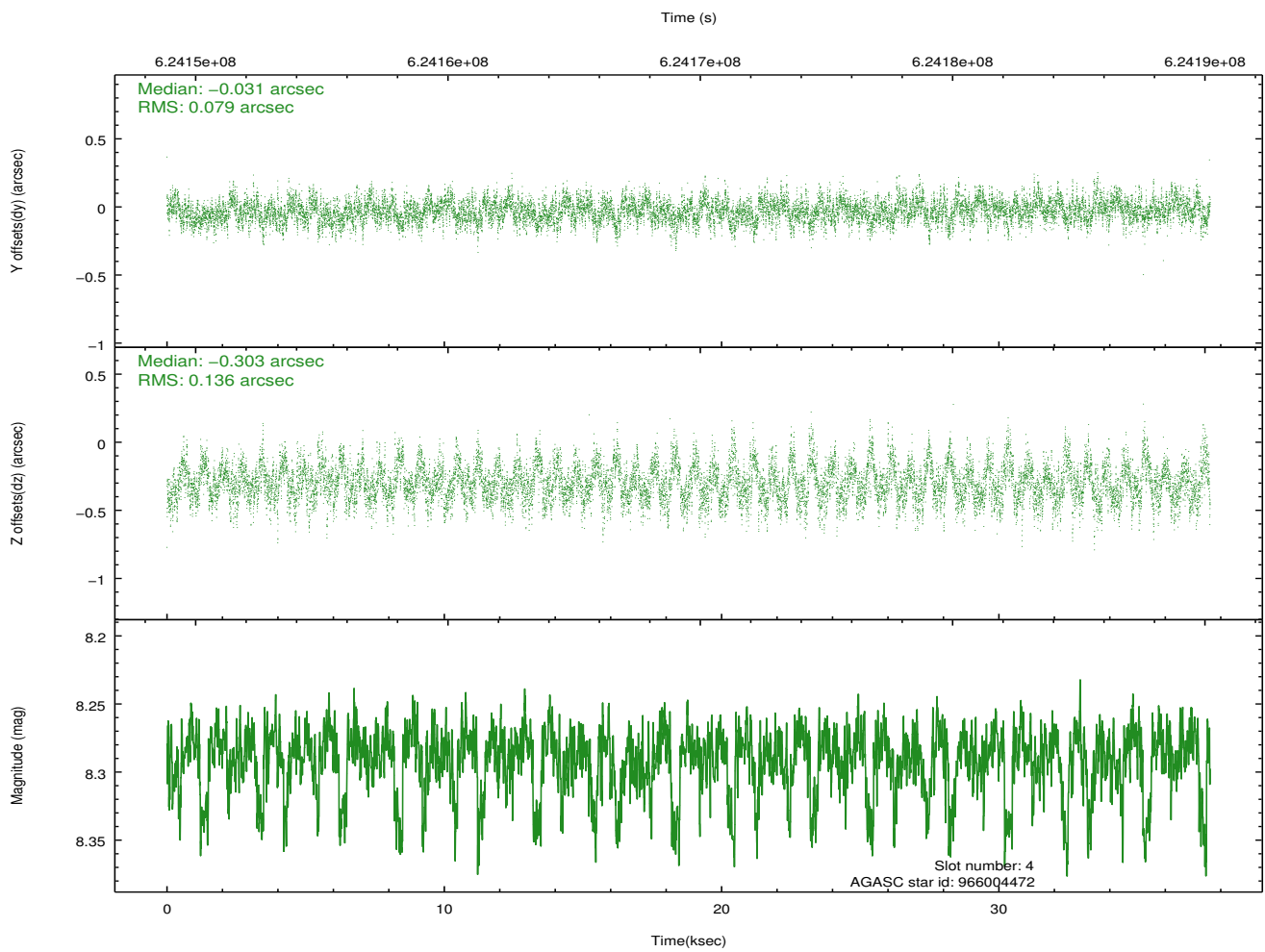
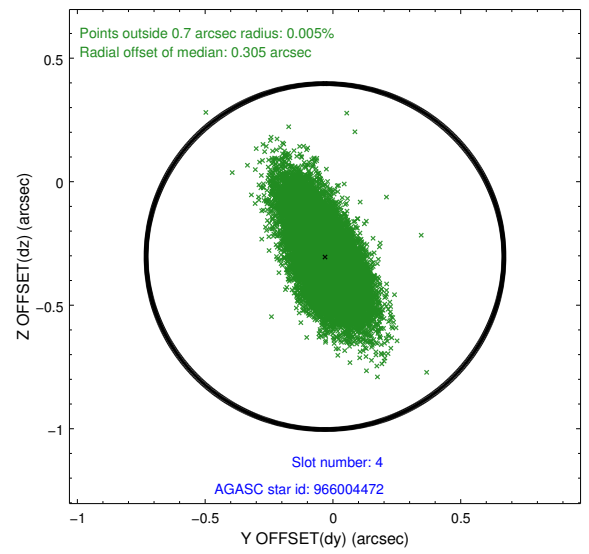
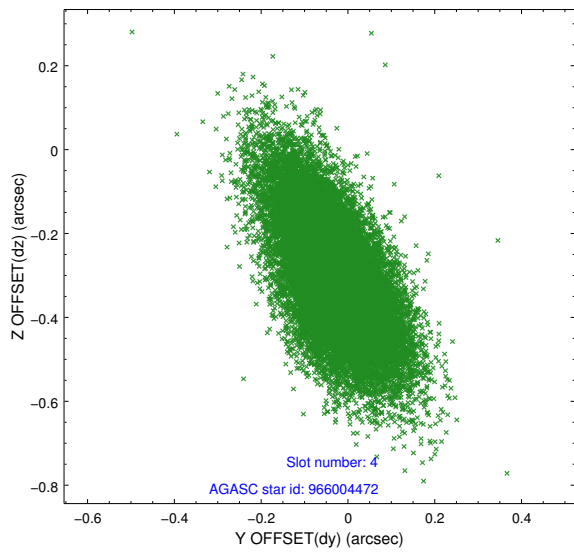
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	9174	-0.005	-0.032	0.037	0.053	0.000000	0.000000	926.25	-843.45
1	FID		ACIS-I-2	7.12	9176	-0.316	-0.121	0.023	0.053	0.000000	0.000000	-768.13	-849.91
2	FID		ACIS-I-4	7.17	9173	0.219	0.226	0.022	0.058	0.000000	0.000000	2146.47	1056.53
3	GUIDE	used	966003096	9.01	18333	0.143	0.018	0.175	0.294	260.360642	-35.600982	1387.78	-384.30
4	GUIDE	used	966004472	8.29	18346	-0.031	-0.303	0.159	0.292	260.641543	-35.382088	472.63	293.53
5	GUIDE	used	966005056	8.21	18344	-0.105	0.197	0.129	0.235	260.445624	-35.348497	450.21	-293.77
6	GUIDE	used	967709784	9.00	18339	0.007	0.084	0.188	0.305	261.025089	-35.287716	-50.96	1347.73
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

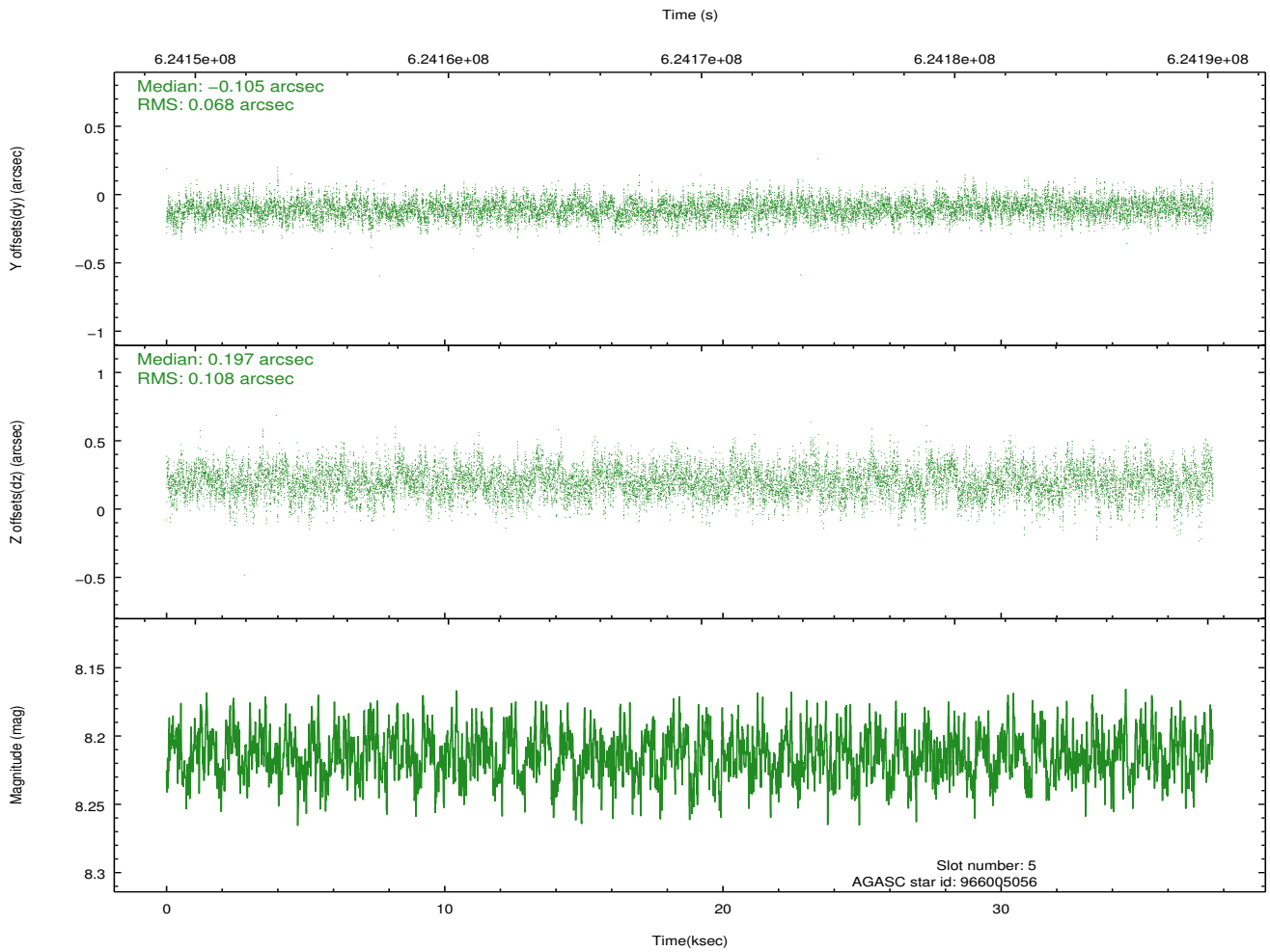
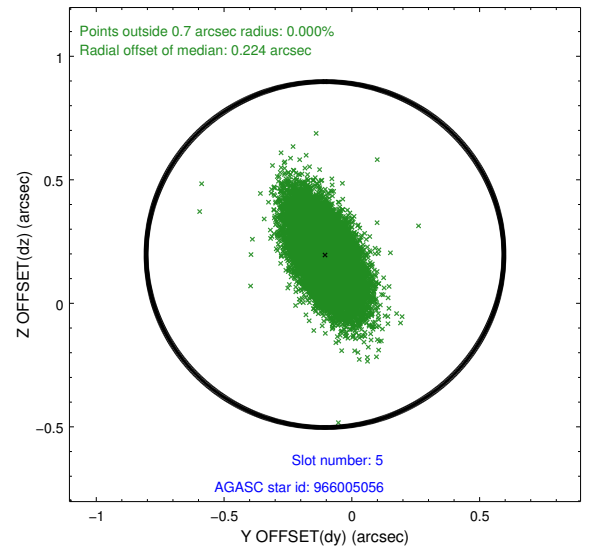
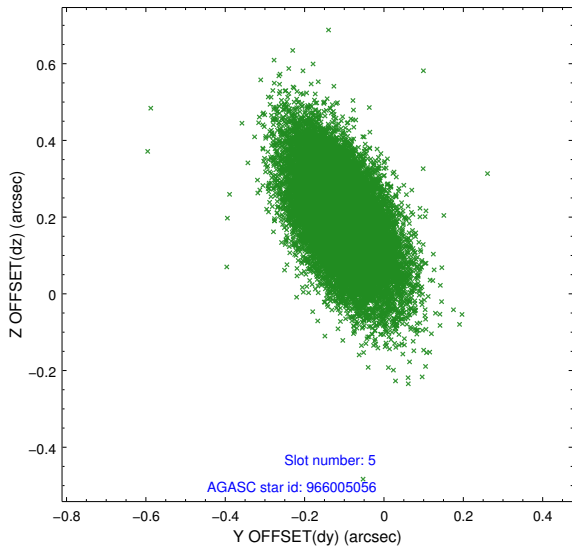
2.4.1 Slot 3



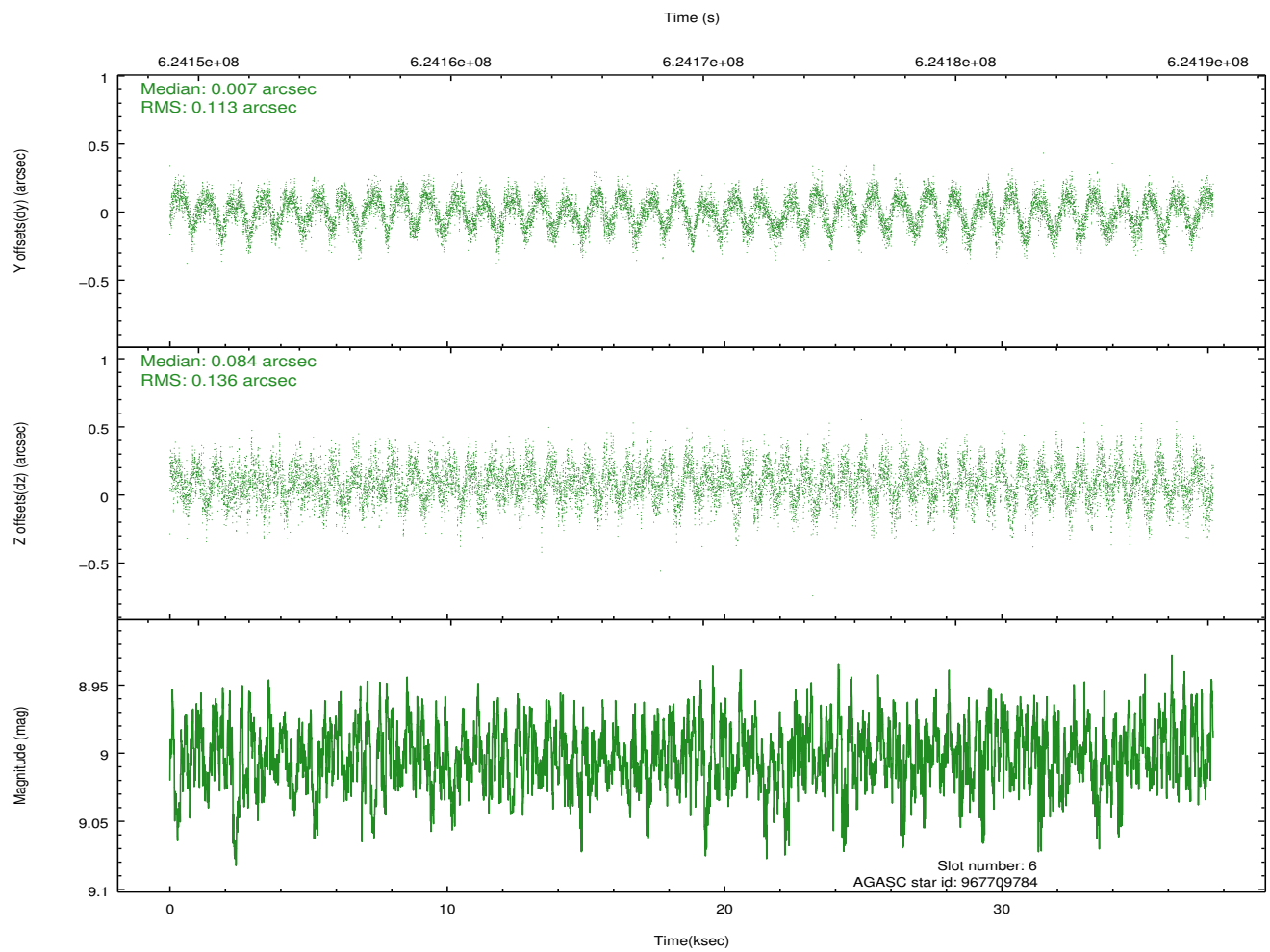
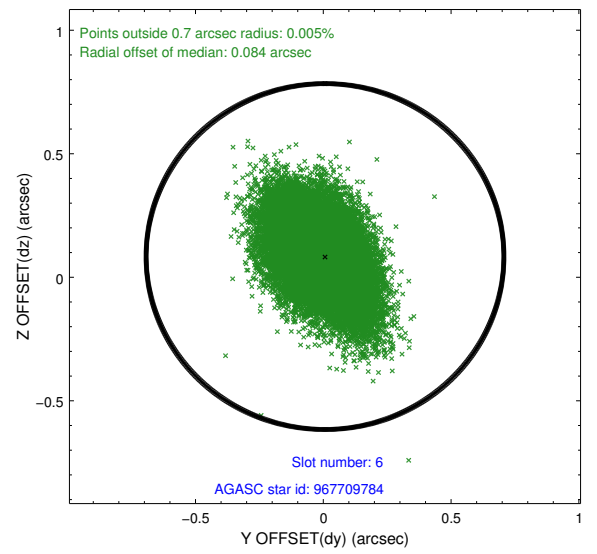
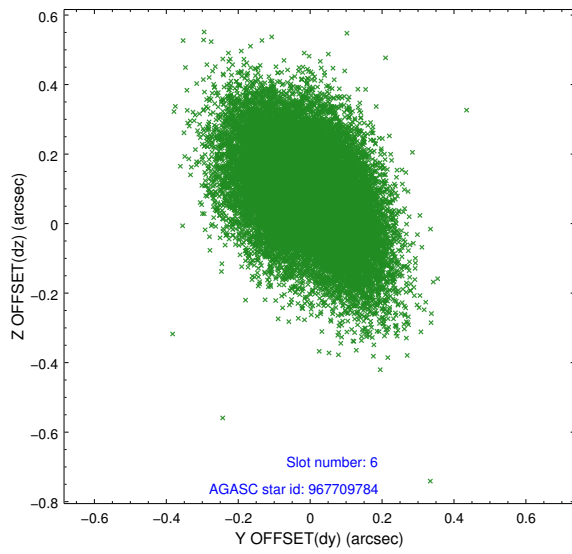
2.4.2 Slot 4



2.4.3 Slot 5

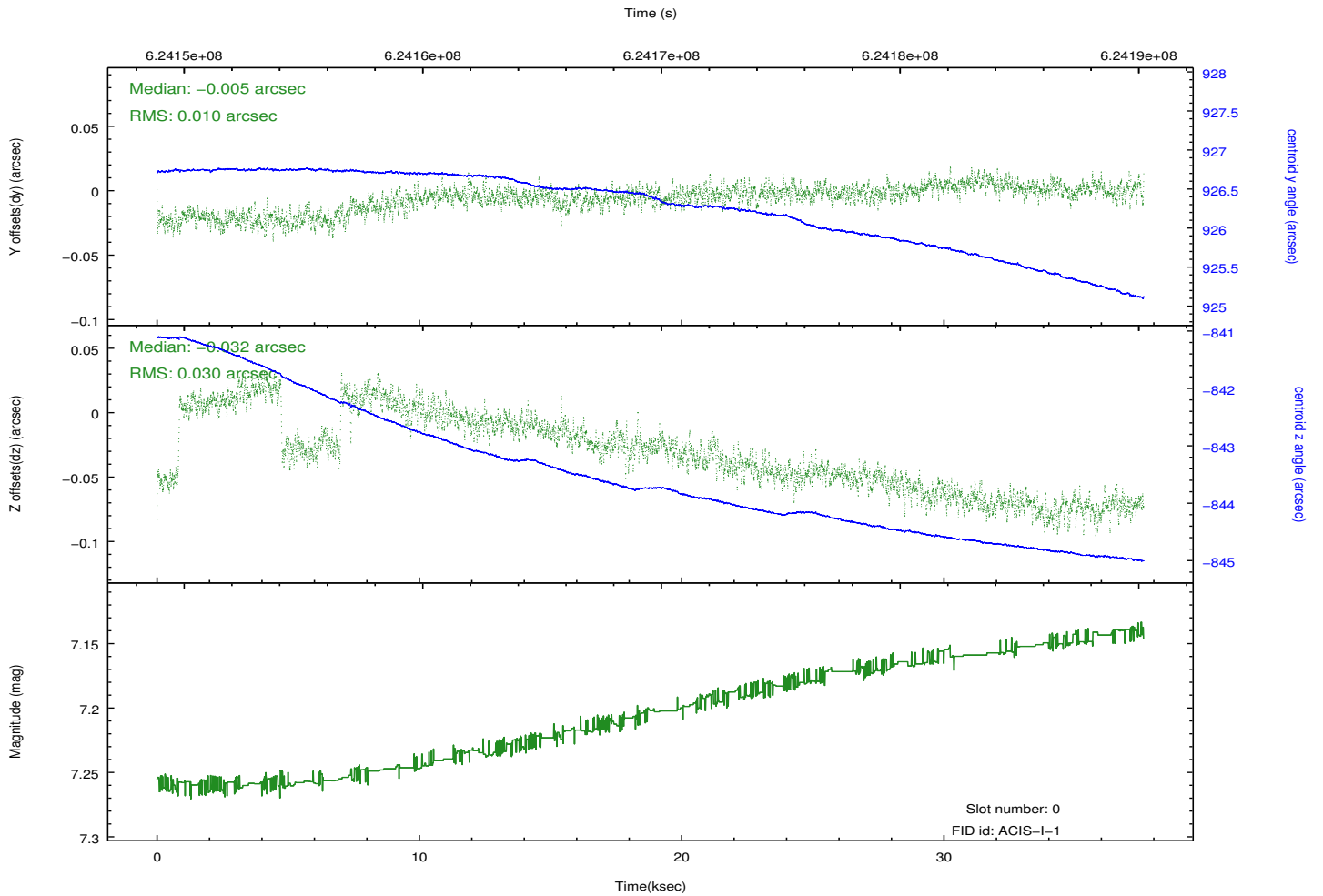
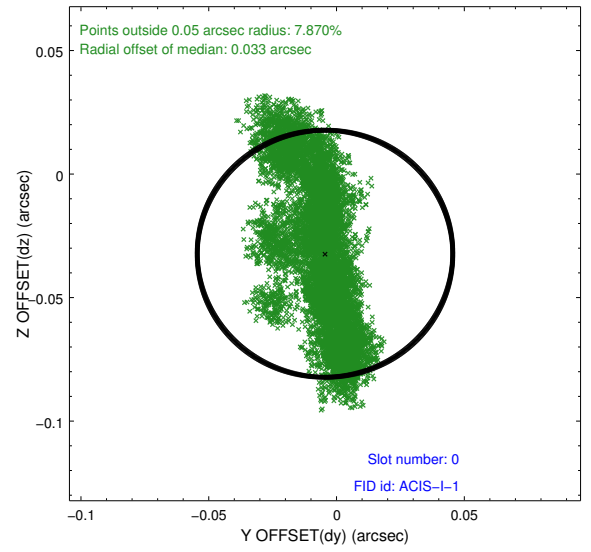
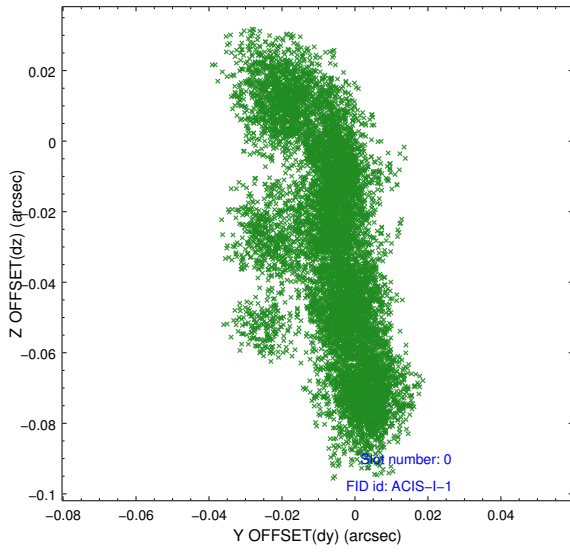


2.4.4 Slot 6

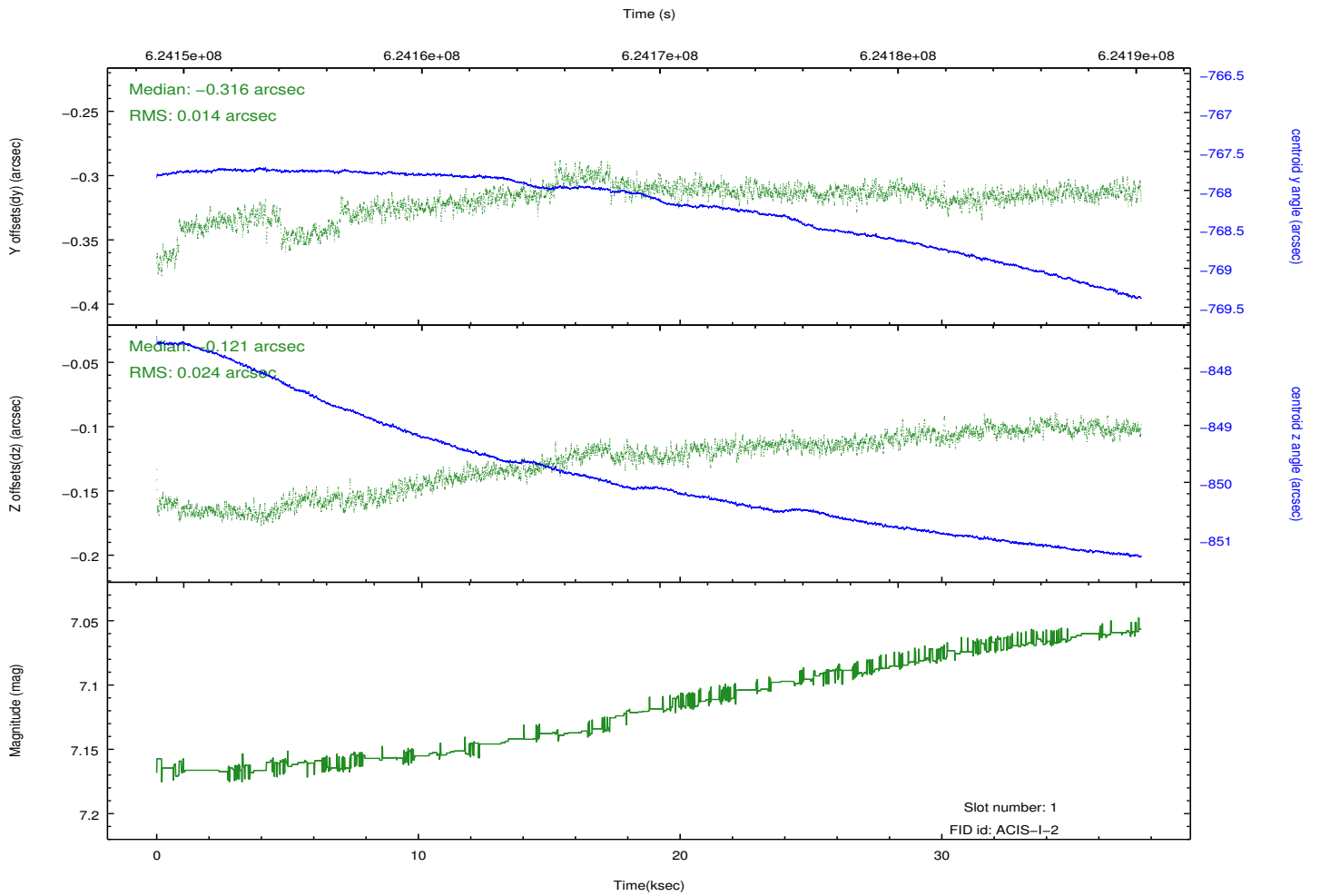
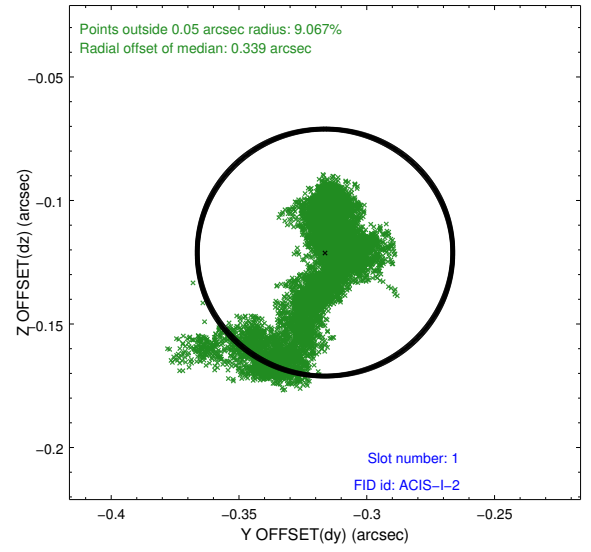
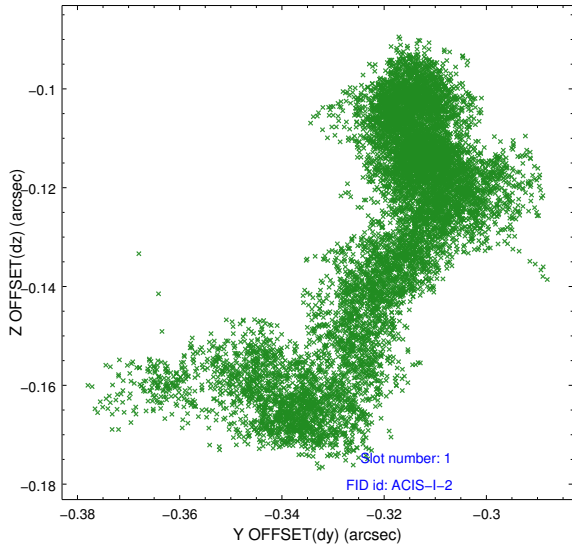


2.5 FID Slots

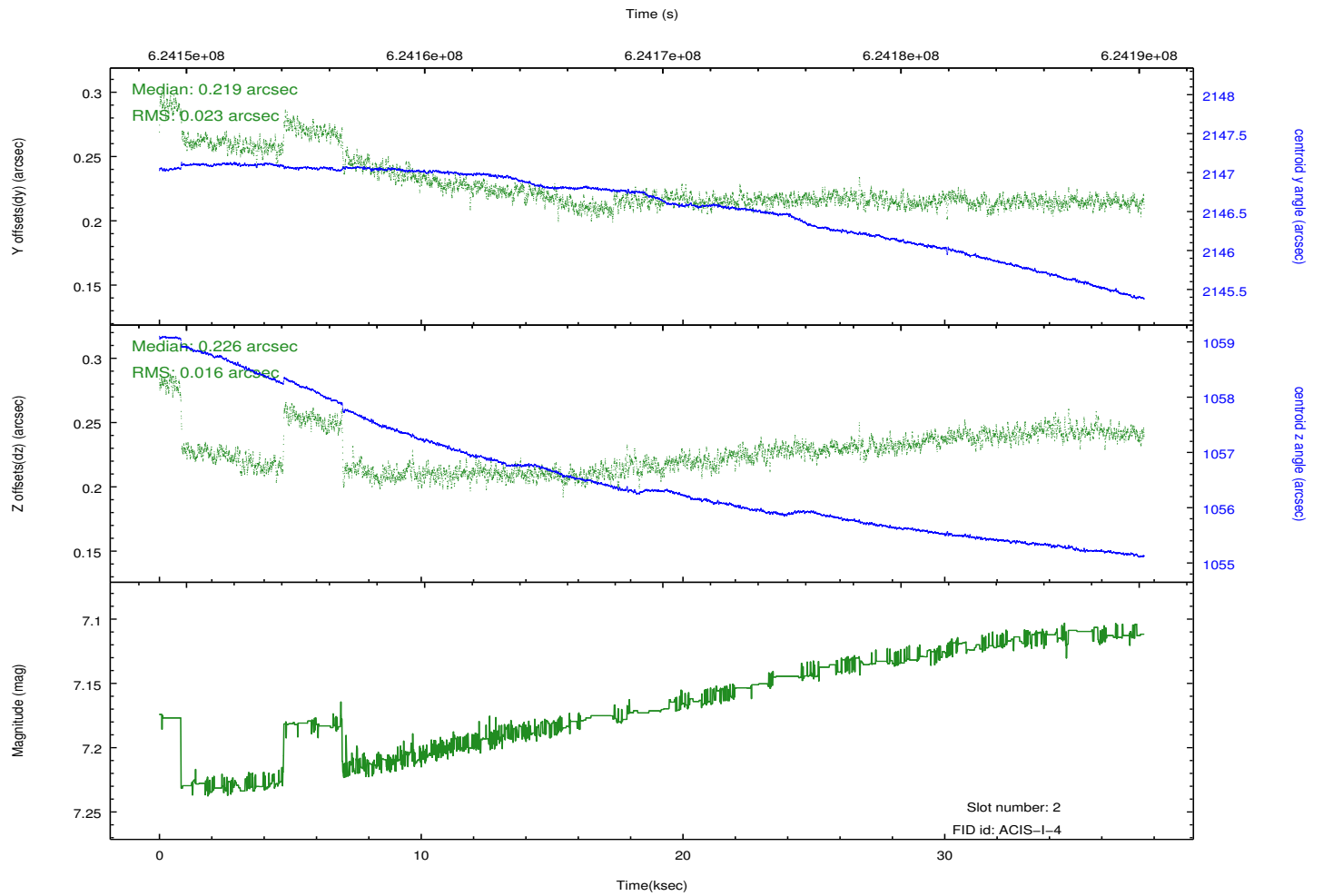
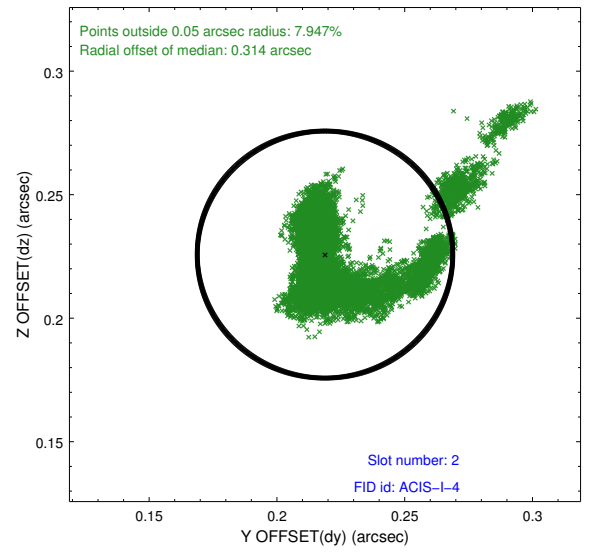
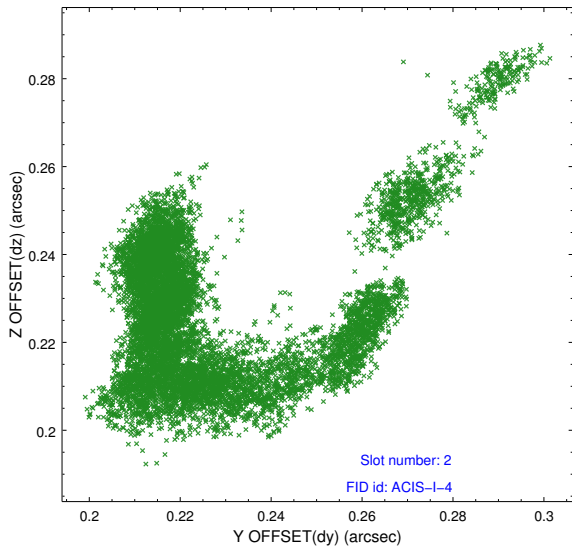
2.5.1 Slot 0



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)	2017.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.452759557724

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.