

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3901 - L2 Version 3
Chandra X-Ray Center

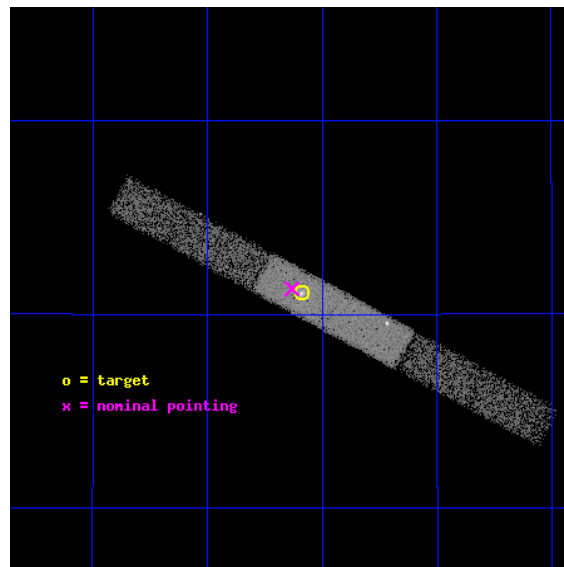
L2 Processing Date : Oct 22 2012

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

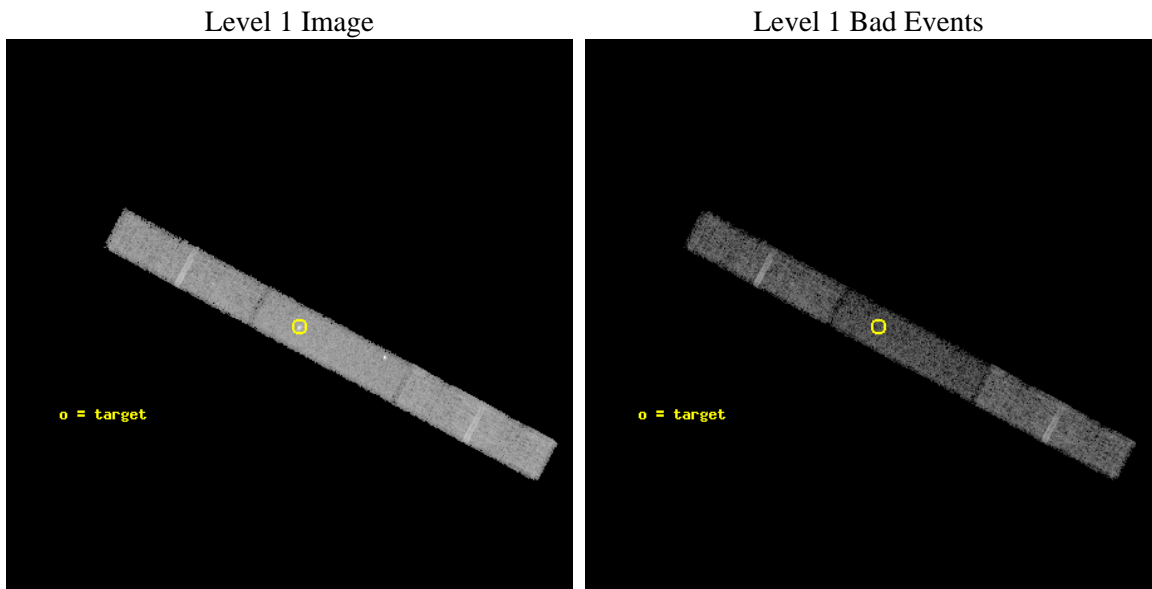
seq_num	500380	Sequence number
obs_id	3901	Observation id
title	PSR J2021+3651: A GAMMA-RAY PULSAR AT THE EDGE OF THE GALAXY?	Prop
observer	Dr. Mallory Roberts	Principal investigator
object	PSR J2021+3651	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	305.271667	Observer's specified target RA [deg]
dec_targ	36.852333	Observer's specified target Dec [deg]
ra_nom	305.28315577999	Nominal RA [deg]
dec_nom	36.855321457979	Nominal Dec [deg]
roll_nom	28.149724979744	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19868.359111458	Sum of GTIs [s]
livetime	19001.873672014	Livetime [s]
ontime6	19868.359111428	Sum of GTIs [s]
ontime7	19868.359111458	Sum of GTIs [s]
ontime8	19869.300131559	Sum of GTIs [s]
l2events	32787	Number of level 2 events



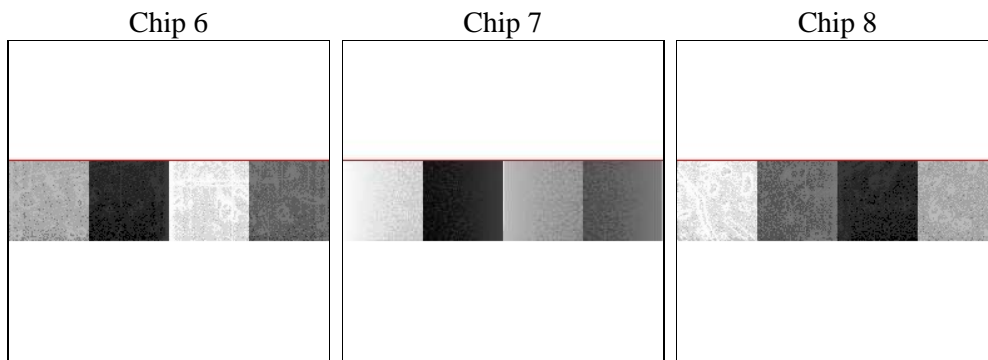
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19868.359111458	Sum of GTIs [s]
caldbver	4.5.2	 	ontime6	19868.359111428	Sum of GTIs [s]
date	2012-10-22T07:49:50	Date and time of file creation	ontime7	19868.359111458	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	19869.300131559	Sum of GTIs [s]
			l1events	153573	Number of level 1 events

2.1.4 Events

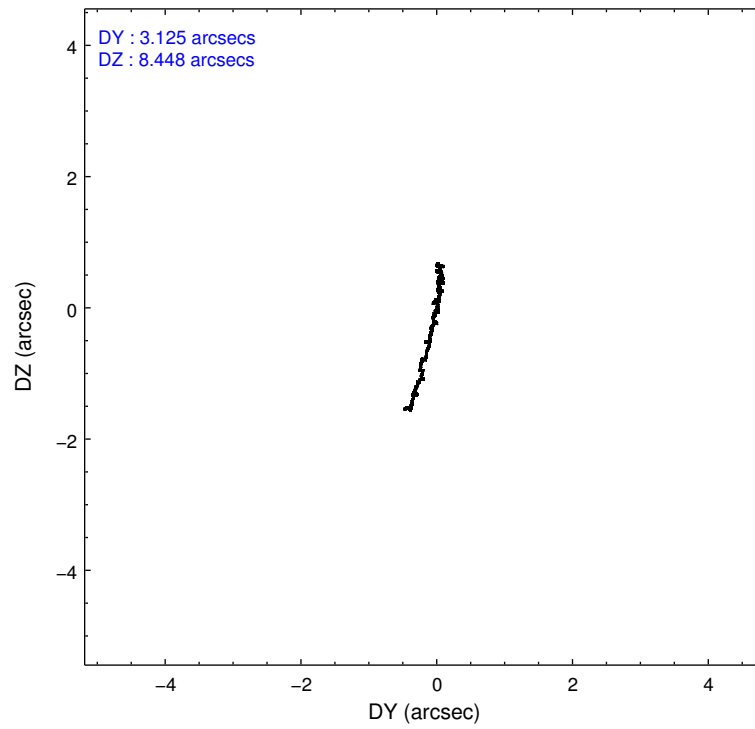
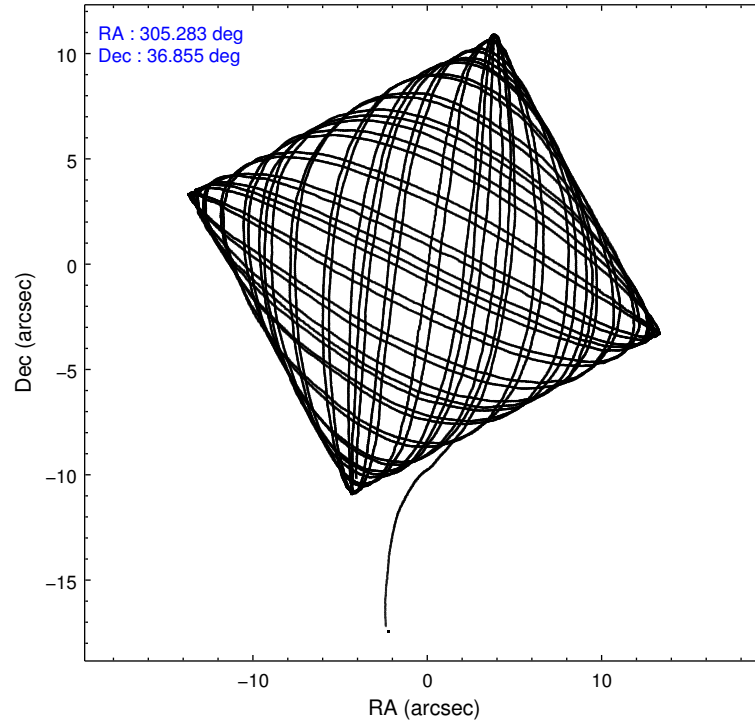
	ccd 6	ccd 7	ccd 8
level 1 events	45420	51291	56862
rejected events	39291	27365	46989
rejected %	86%	53%	82%

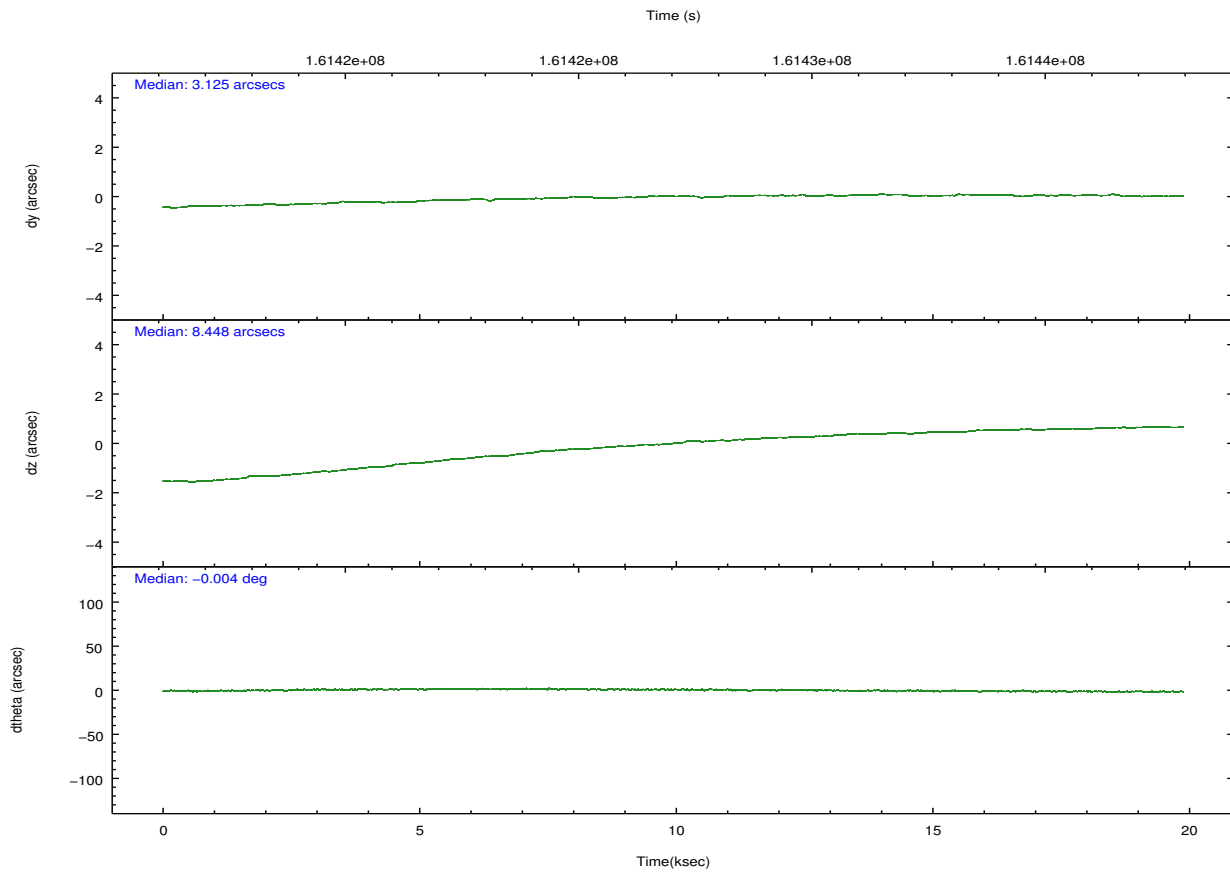
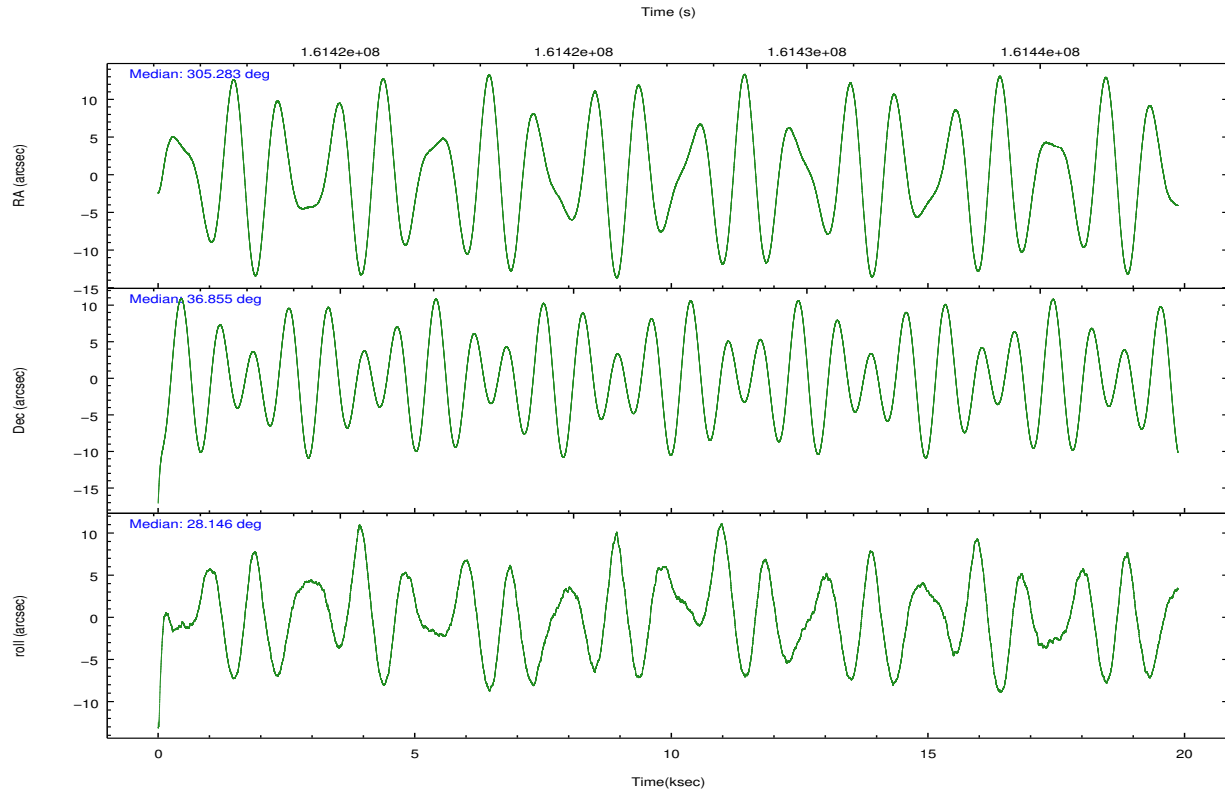
	ccd 6	ccd 7	ccd 8
grade 0 events	2912	3403	3324
	6%	6%	5%
grade 1 events	17	58	21
	0%	0%	0%
grade 2 events	992	5061	1982
	2%	9%	3%
grade 3 events	757	2743	1205
	1%	5%	2%
grade 4 events	757	2617	1145
	1%	5%	2%
grade 5 events	1597	4413	1943
	3%	8%	3%
grade 6 events	912	10813	2575
	2%	21%	4%
grade 7 events	37476	22183	44667
	82%	43%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	305.265601	305.2831557799896	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	36.832001	36.85532145797875	Subarray start row	385	385
[deg] Pointing Roll	28.003637	28.14972497974396	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	161417260.184000	161416207.48268			
Observation start date	2003-02-12T06:06:36	2003-02-12T05:50:07			
[s] Observation end time (MET)	161436960.184000	161437093.90856			
Observation end date	2003-02-12T11:34:56	2003-02-12T11:38:13			
Read mode	TIMED	TIMED			

2.3 Aspect





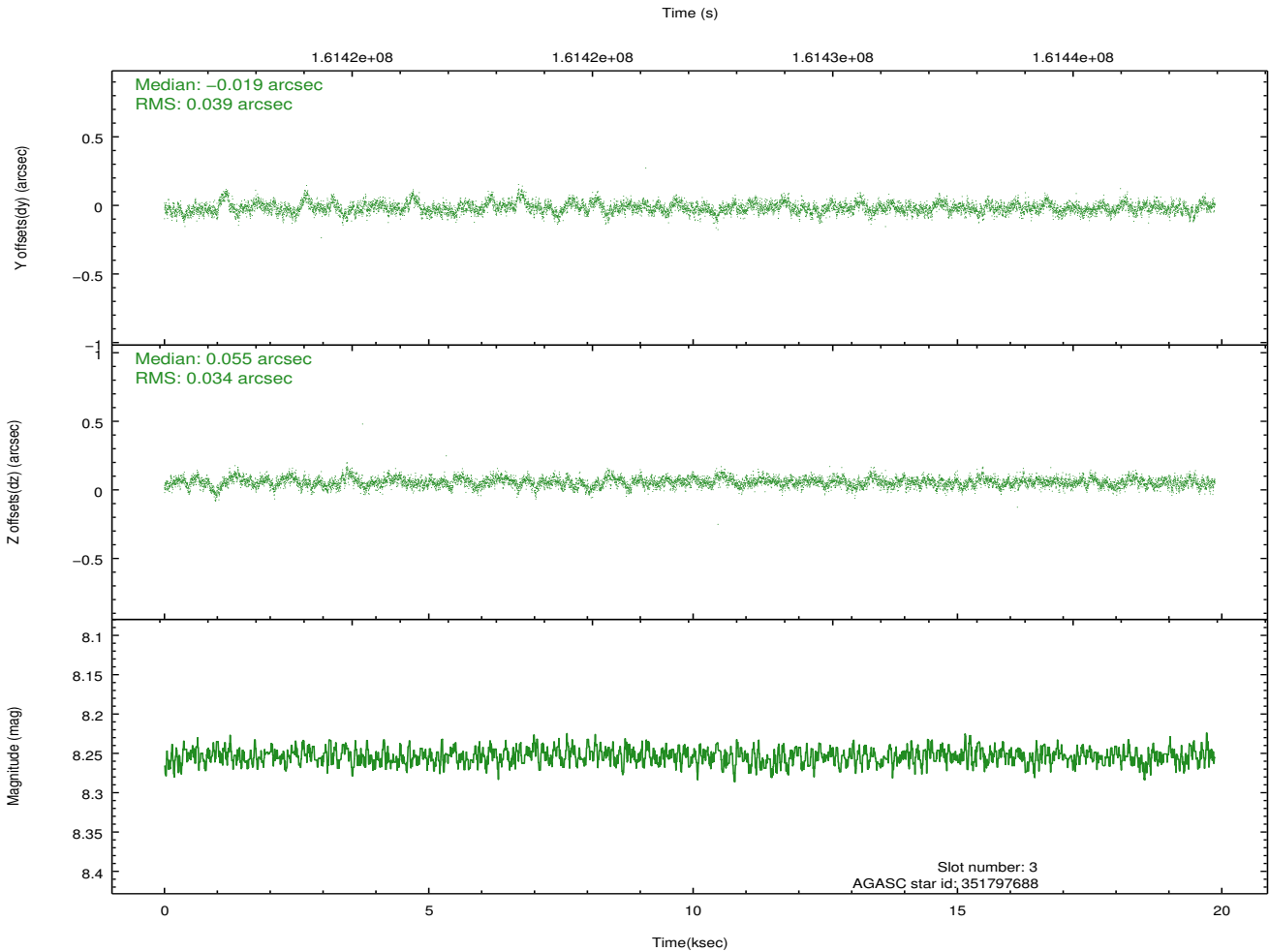
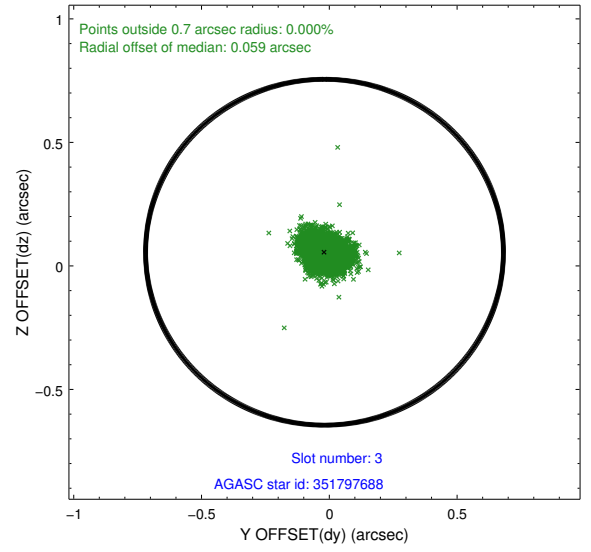
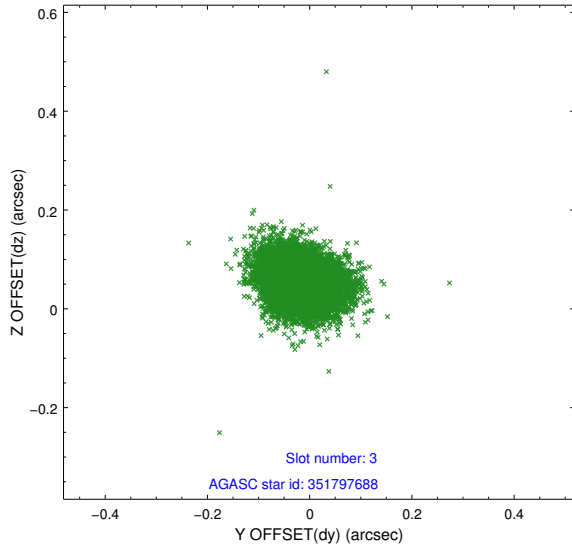
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	4847	-0.023	-0.013	0.011	0.018	0.000000	0.000000	-755.71	-1729.47
1	FID	ACIS-S-4	7.20	4845	0.006	0.015	0.012	0.019	0.000000	0.000000	2157.51	178.85
2	FID	ACIS-S-5	7.24	4846	-0.015	0.007	0.011	0.027	0.000000	0.000000	-1808.30	172.71
3	GUIDE	351797688	8.25	9689	-0.019	0.055	0.054	0.092	305.702978	37.435347	2125.00	1333.60
4	GUIDE	351801656	9.45	9690	-0.031	0.119	0.089	0.150	305.958441	36.522506	1250.48	-1918.07
5	GUIDE	351812608	8.24	9694	0.133	-0.072	0.061	0.096	304.539634	36.570010	-2291.91	159.48
6	GUIDE	351803264	9.13	9690	-0.063	0.048	0.103	0.160	305.048112	36.103142	-1790.28	-2019.03
7	GUIDE	413143680	9.14	9672	-0.012	-0.148	0.118	0.188	305.316452	37.600642	1427.17	2374.90

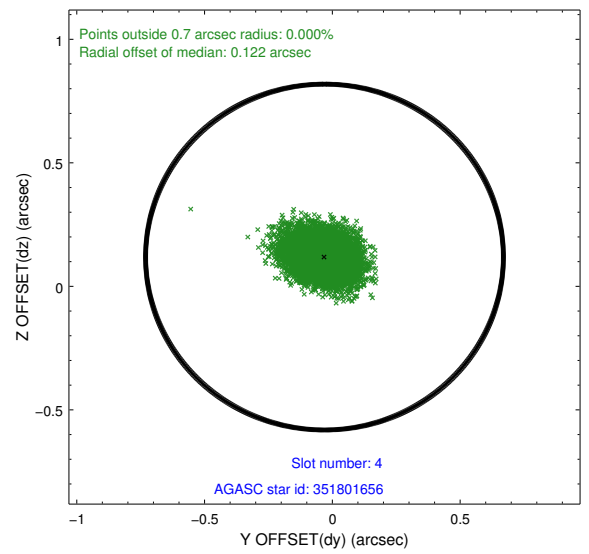
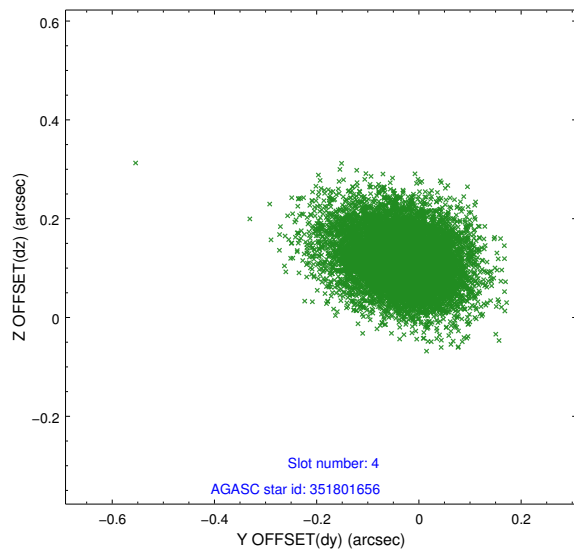
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2.4 Star Slots

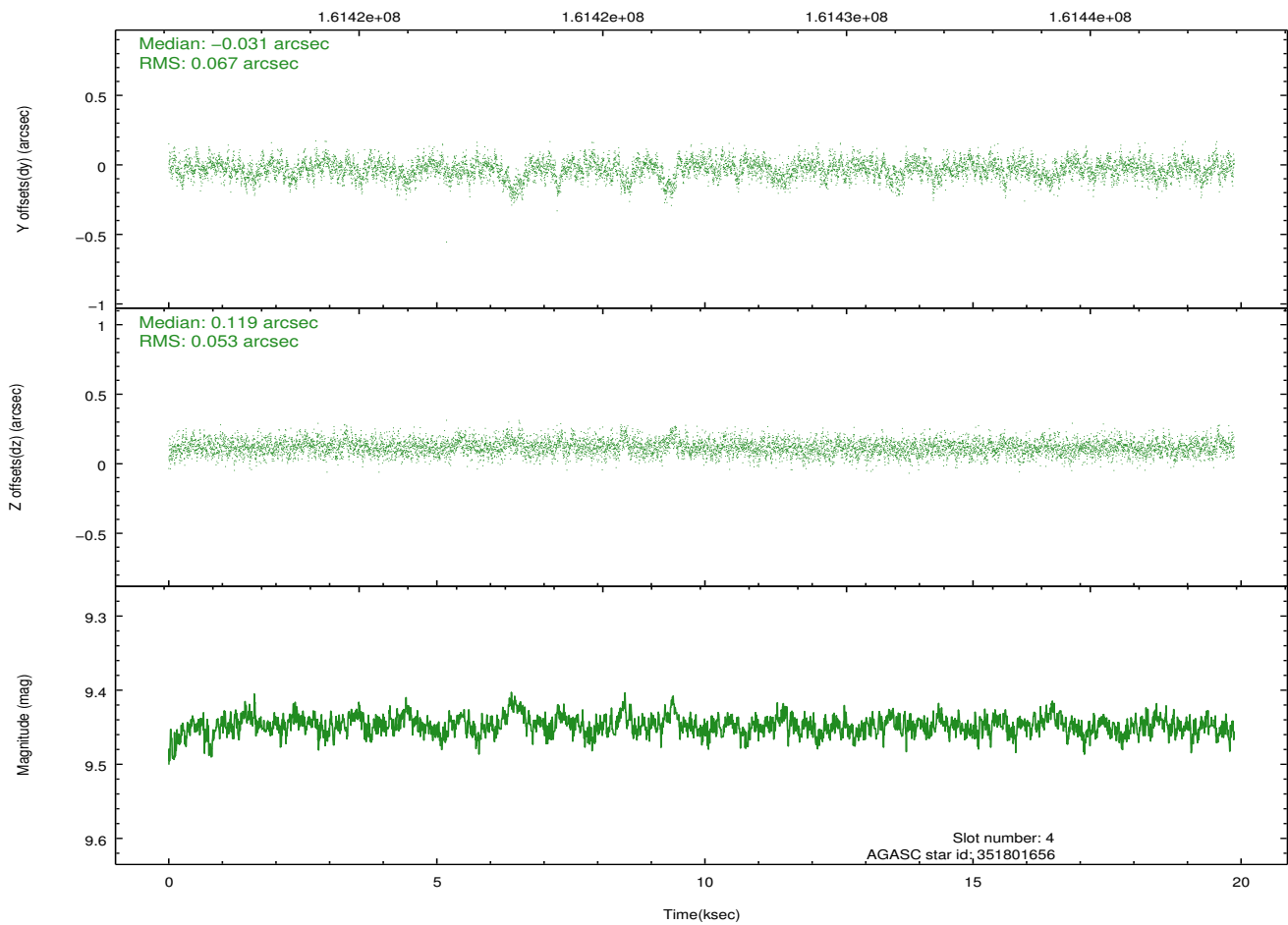
2.4.1 Slot 3



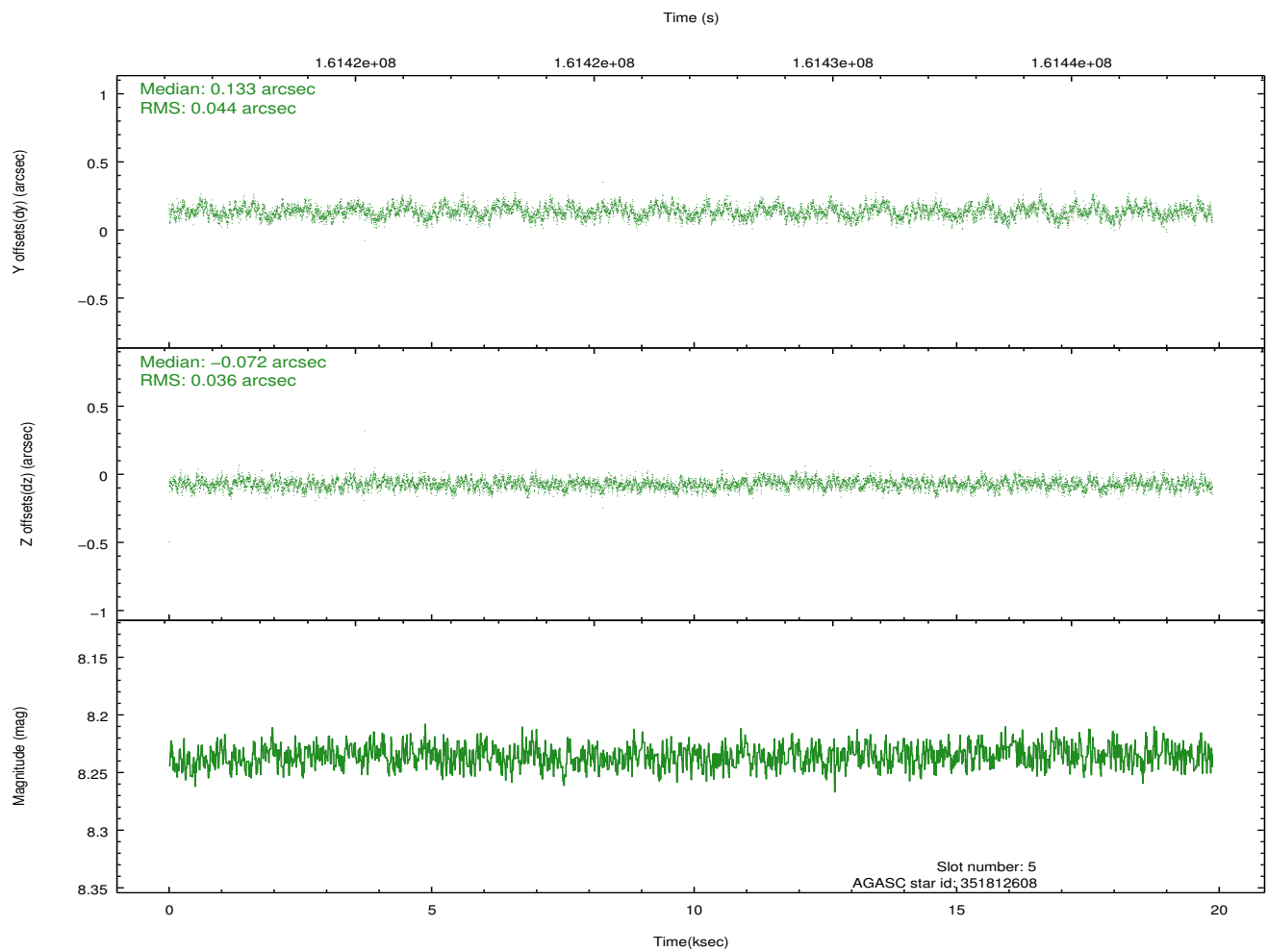
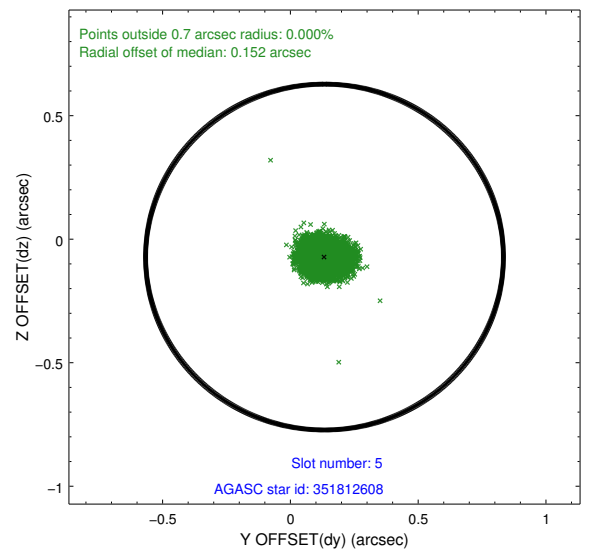
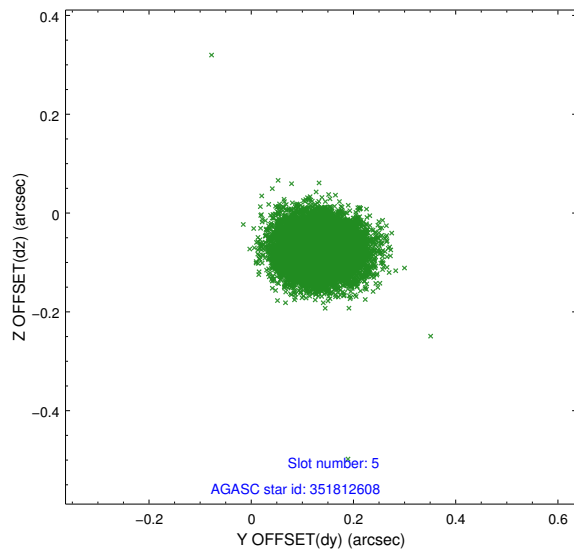
2.4.2 Slot 4



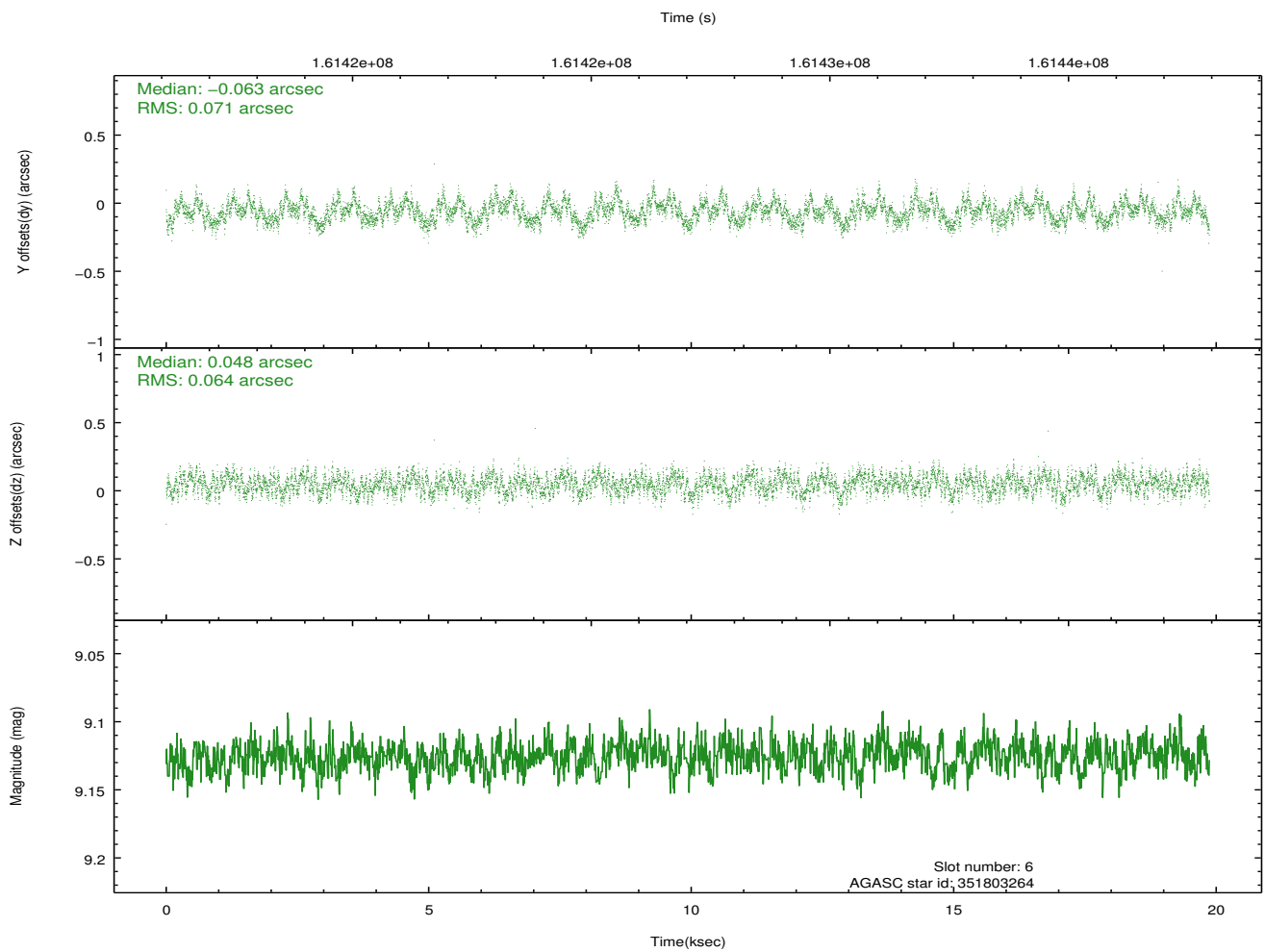
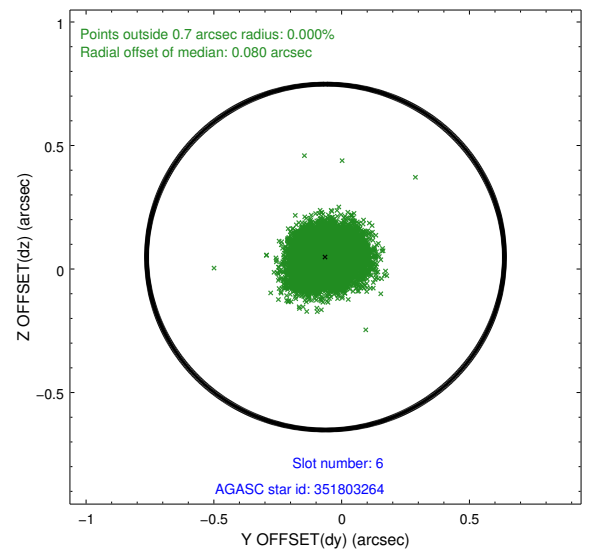
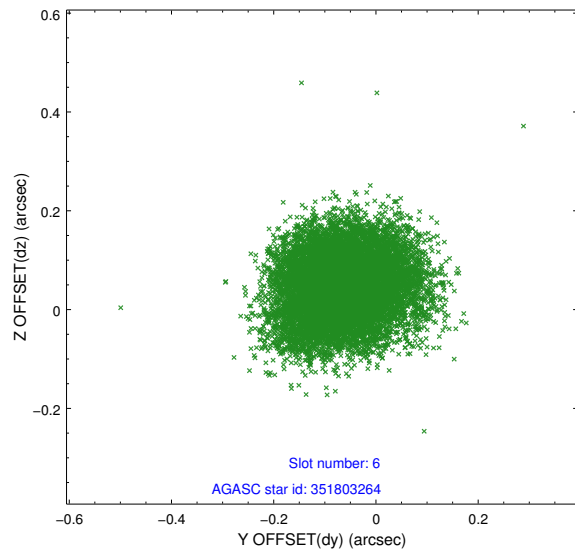
Time (s)



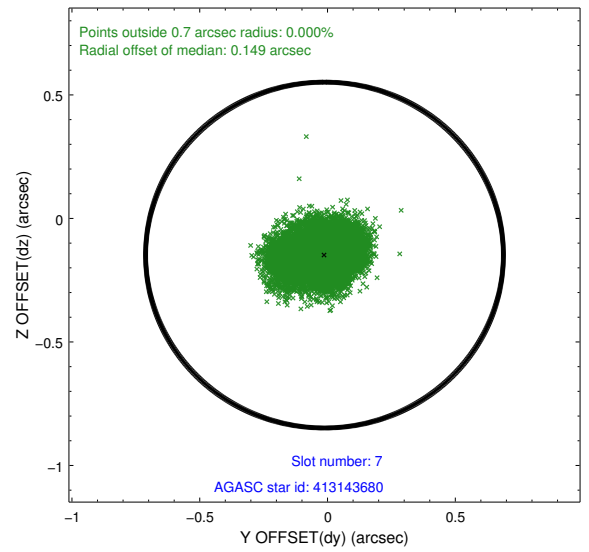
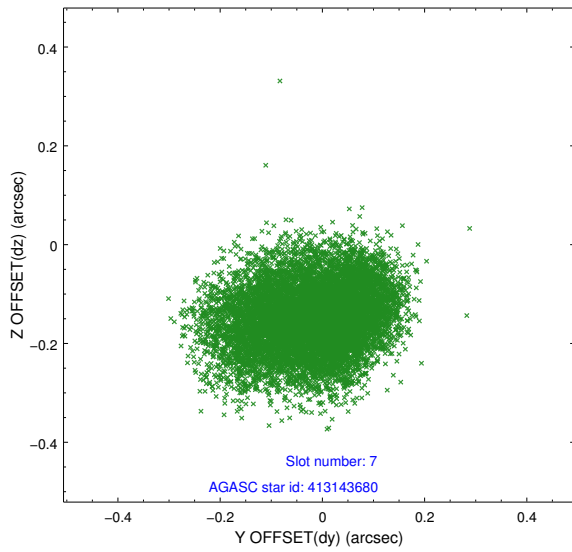
2.4.3 Slot 5



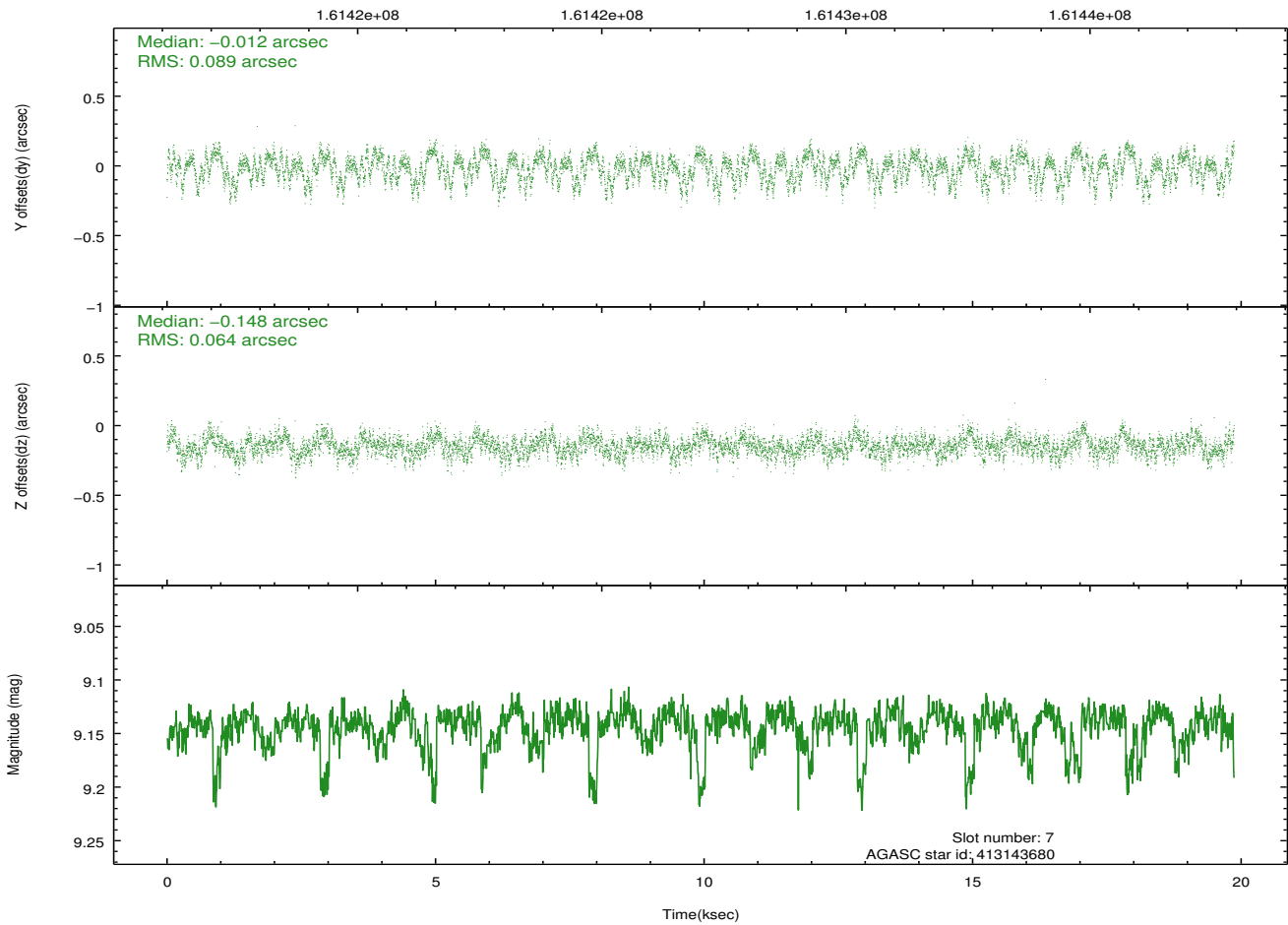
2.4.4 Slot 6



2.4.5 Slot 7

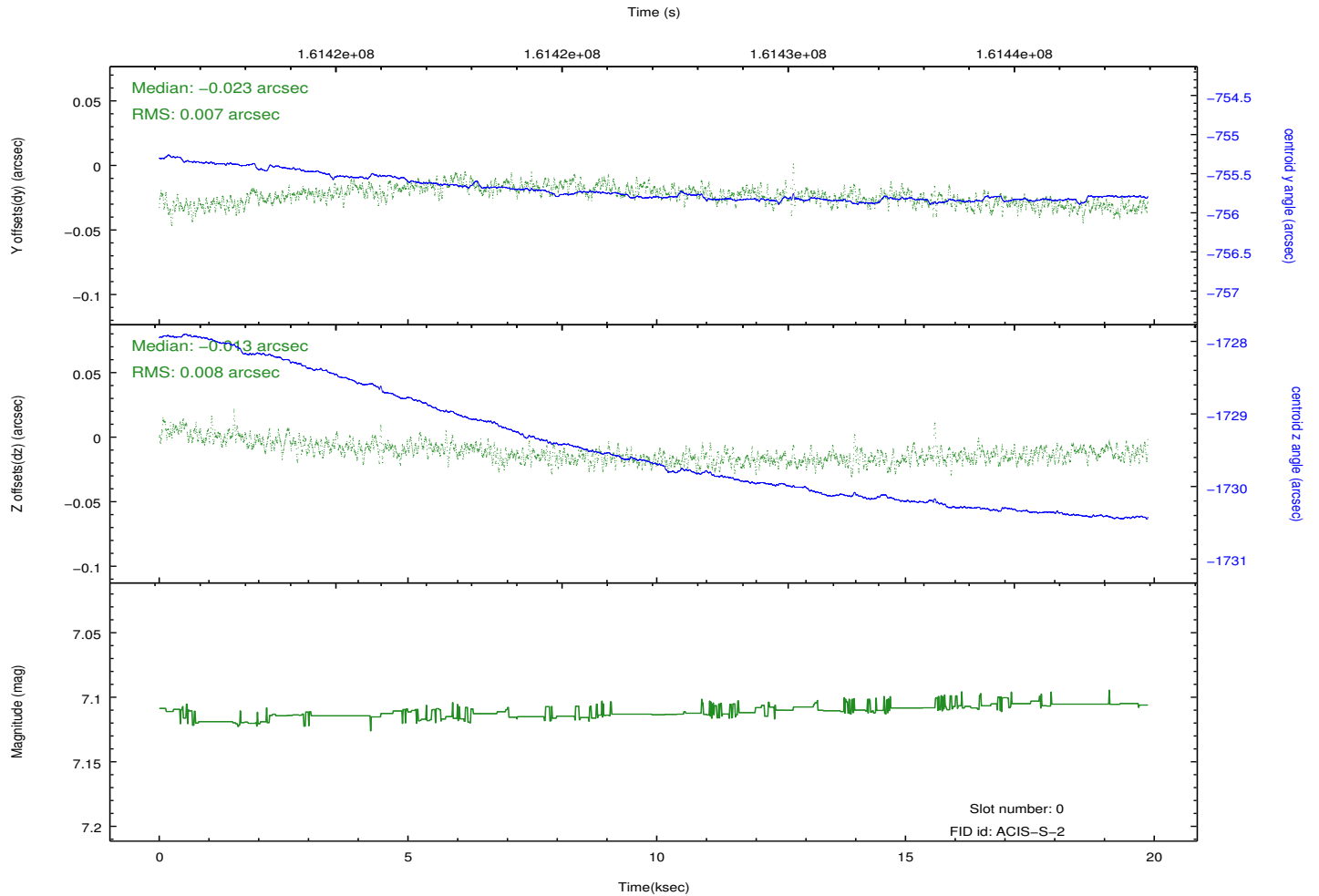
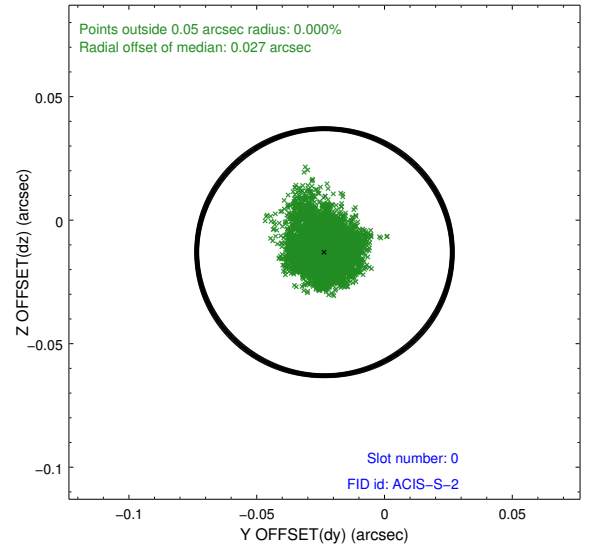
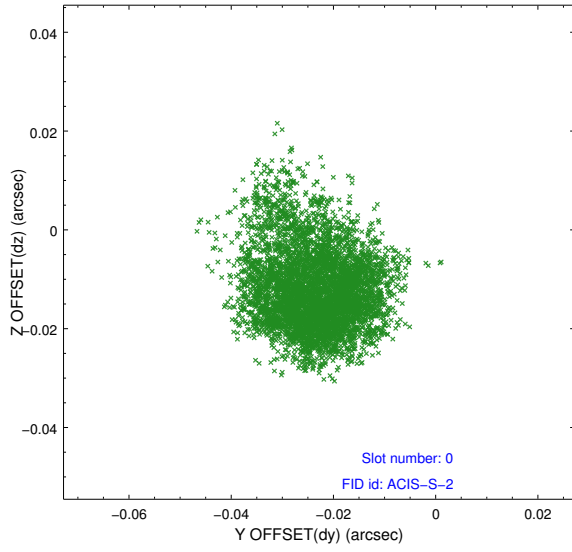


Time (s)

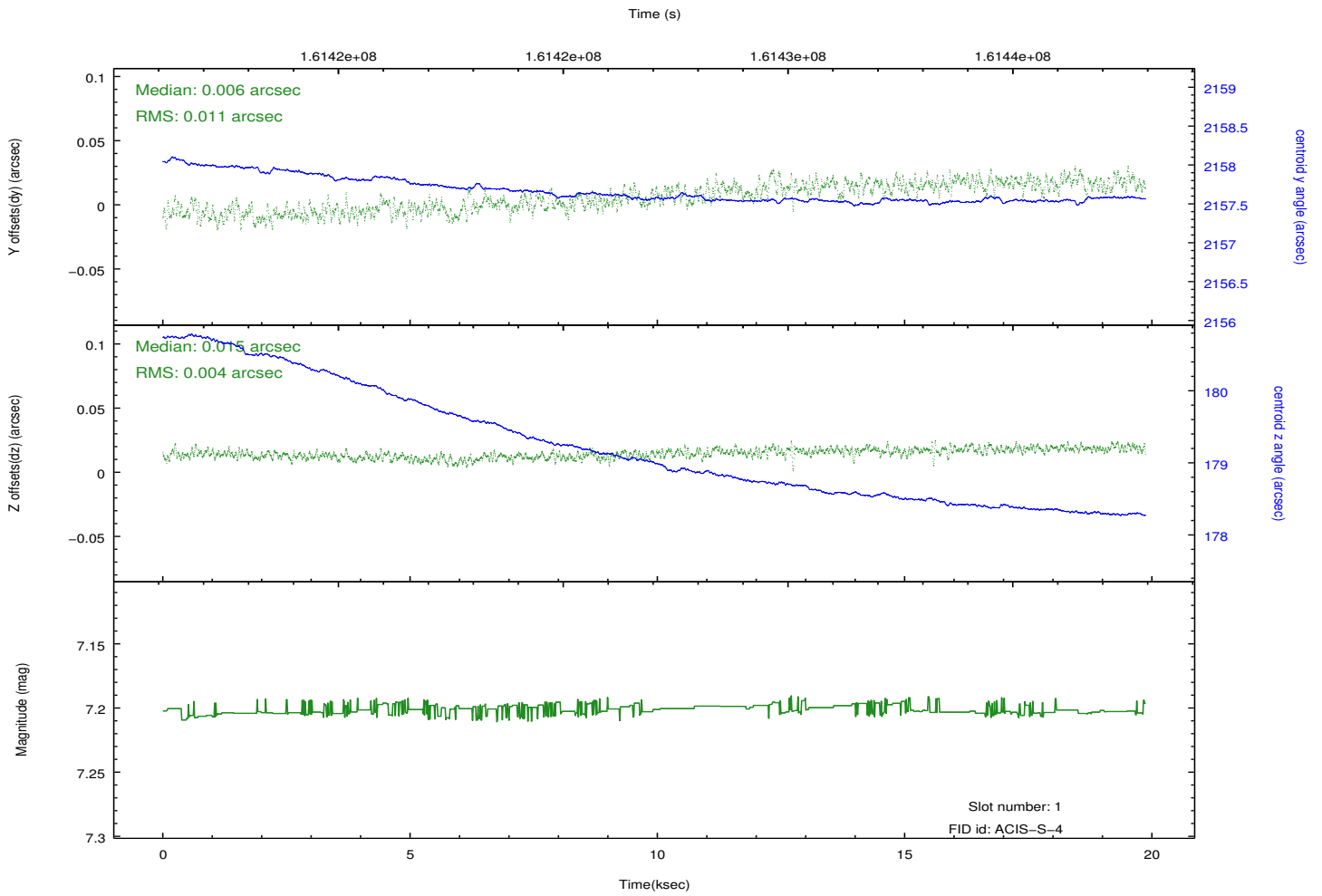
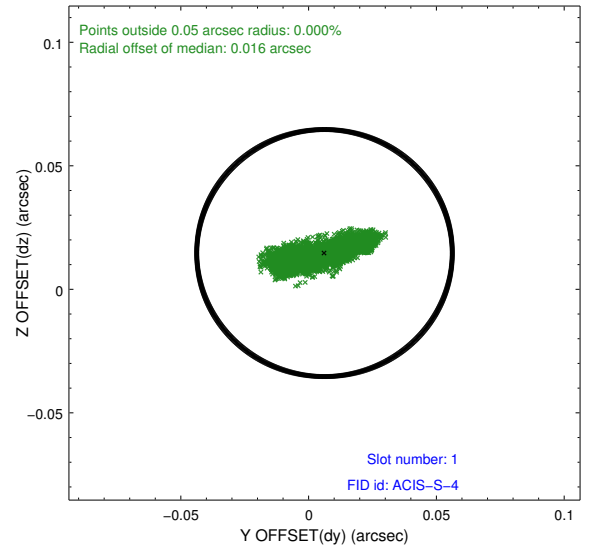
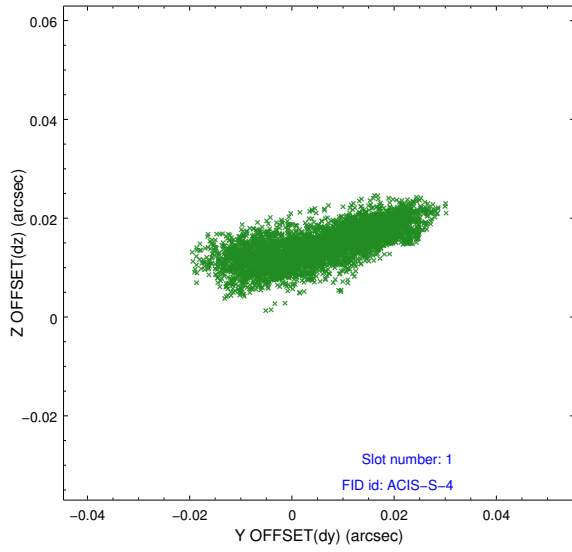


2.5 FID Slots

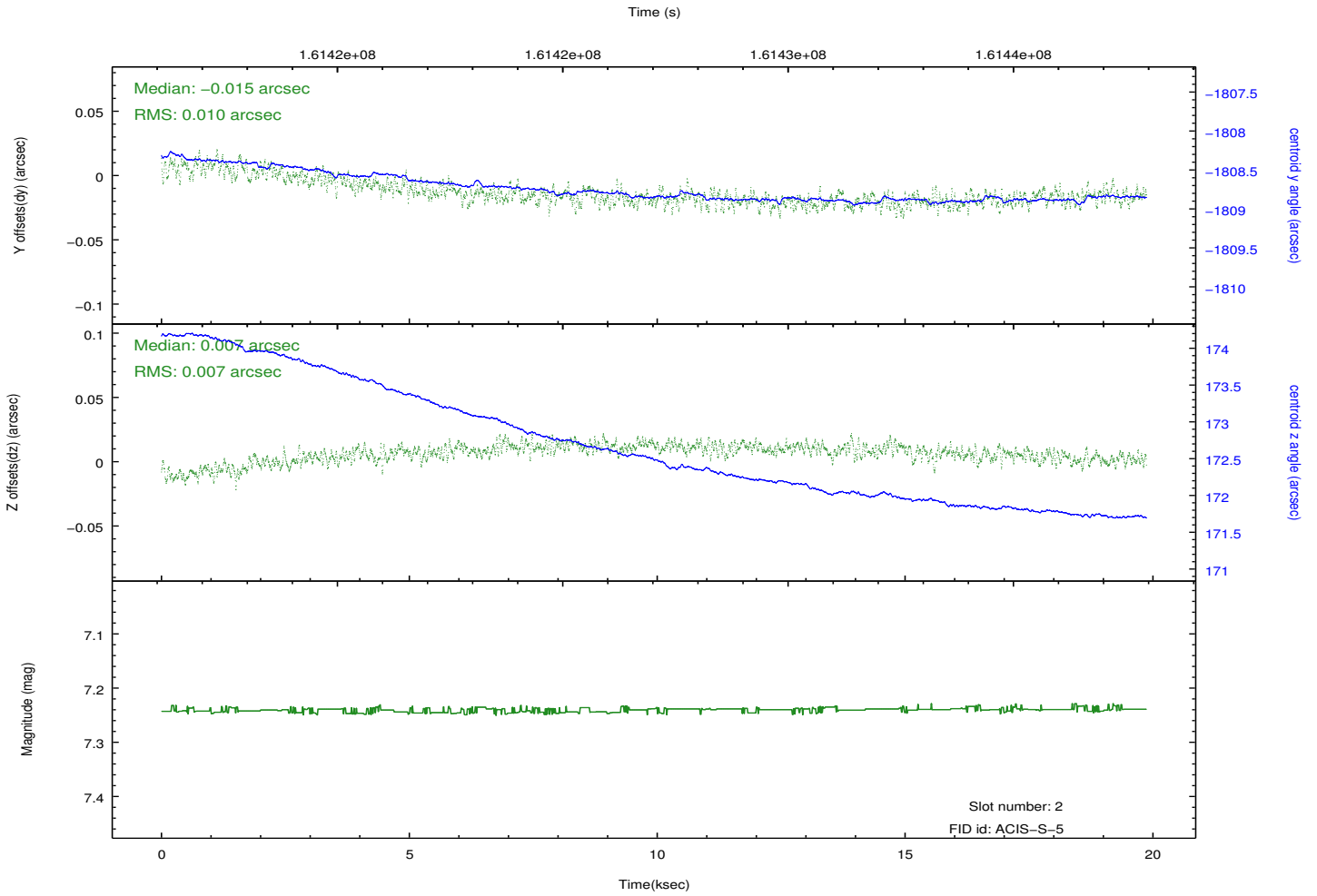
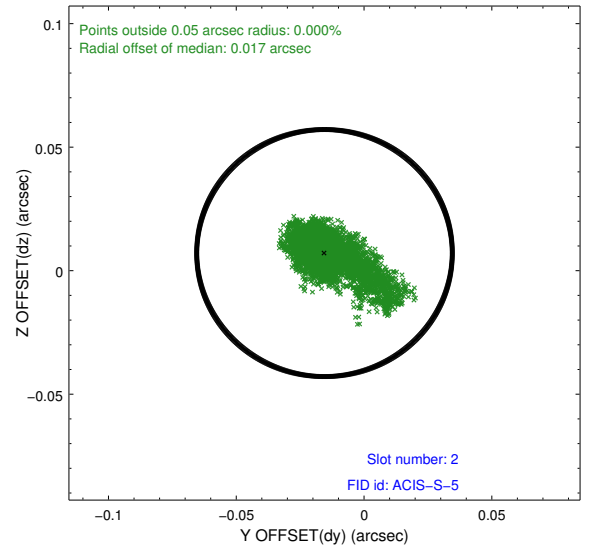
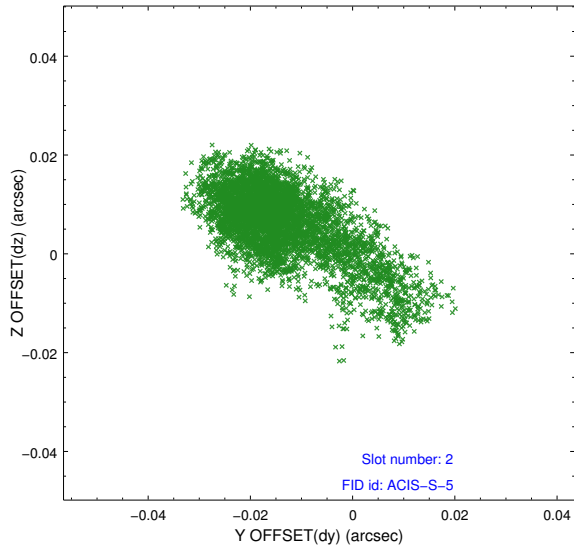
2.5.1 Slot 0



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)	2012.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.868

A.2 Comments

Roll preference met.