

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19633 - L2 Version 1
Chandra X-Ray Center

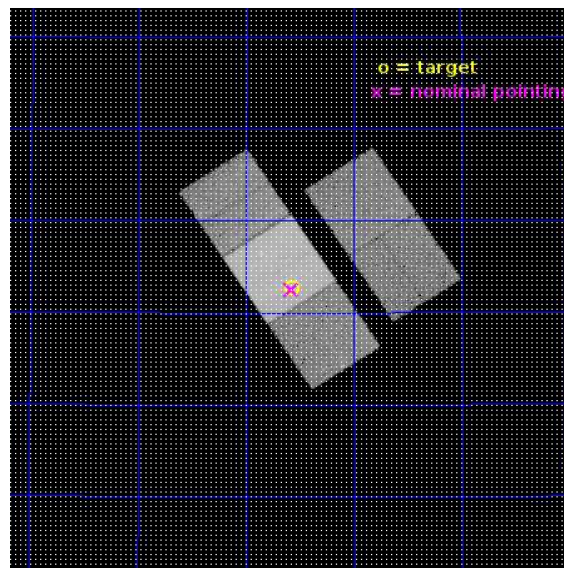
L2 Processing Date : Apr 17 2017

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

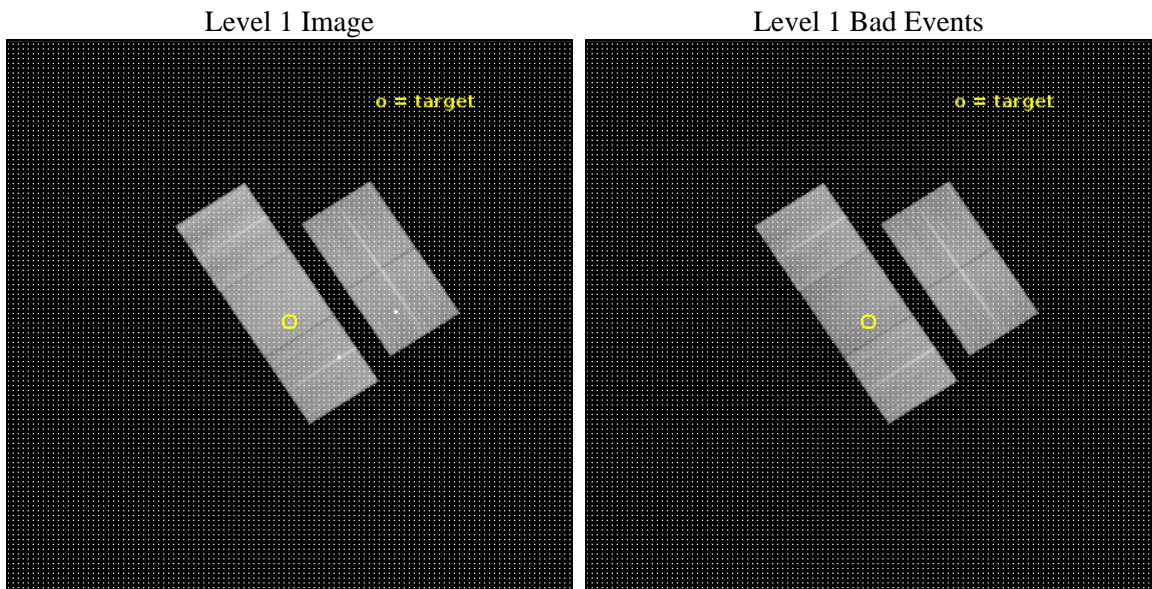
seq_num	703430	Sequence number
obs_id	19633	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	SDSS1004+4112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.1425	Observer's specified target RA [deg]
dec_targ	41.212222	Observer's specified target Dec [deg]
ra_nom	151.14483205846	Nominal RA [deg]
dec_nom	41.208595606499	Nominal Dec [deg]
roll_nom	236.94805640514	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40048.900308132	Sum of GTIs [s]
livetime	39525.631942035	Livetime [s]
ontime2	40045.75924778	Sum of GTIs [s]
ontime3	40048.900308132	Sum of GTIs [s]
ontime6	40048.900308132	Sum of GTIs [s]
ontime7	40048.900308132	Sum of GTIs [s]
ontime8	40045.759237289	Sum of GTIs [s]
l2events	275050	Number of level 2 events



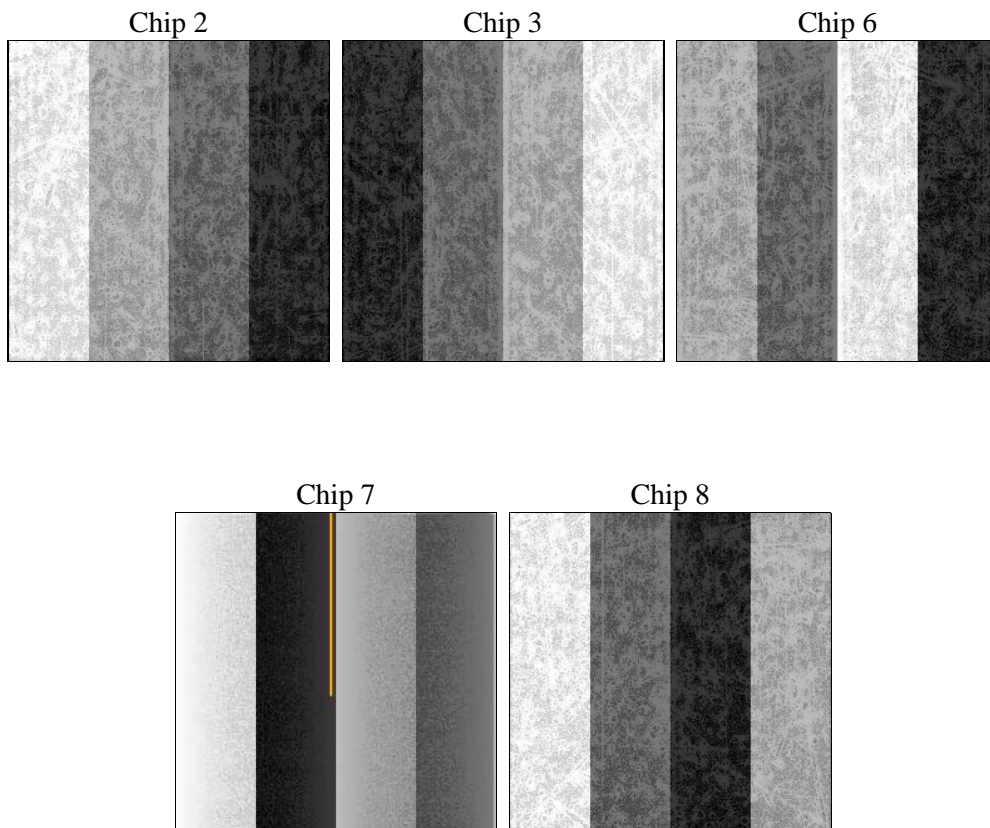
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	40048.900308132	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	40045.75924778	Sum of GTIs [s]
date	2017-04-17T14:12:43	Date and time of file creation	ontime3	40048.900308132	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	40048.900308132	Sum of GTIs [s]
			ontime7	40048.900308132	Sum of GTIs [s]
			ontime8	40045.759237289	Sum of GTIs [s]
			l1events	1705953	Number of level 1 events

2.1.4 Events

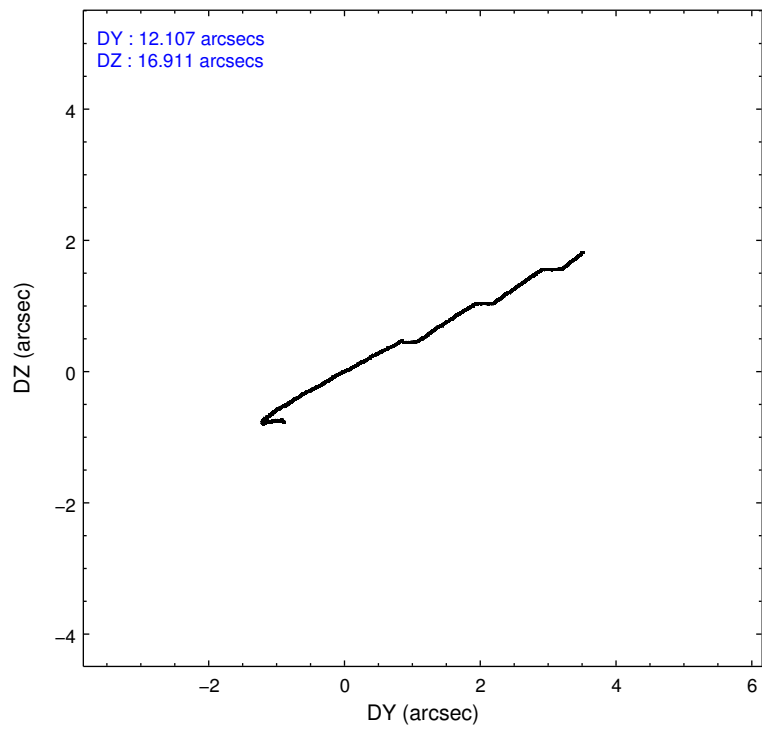
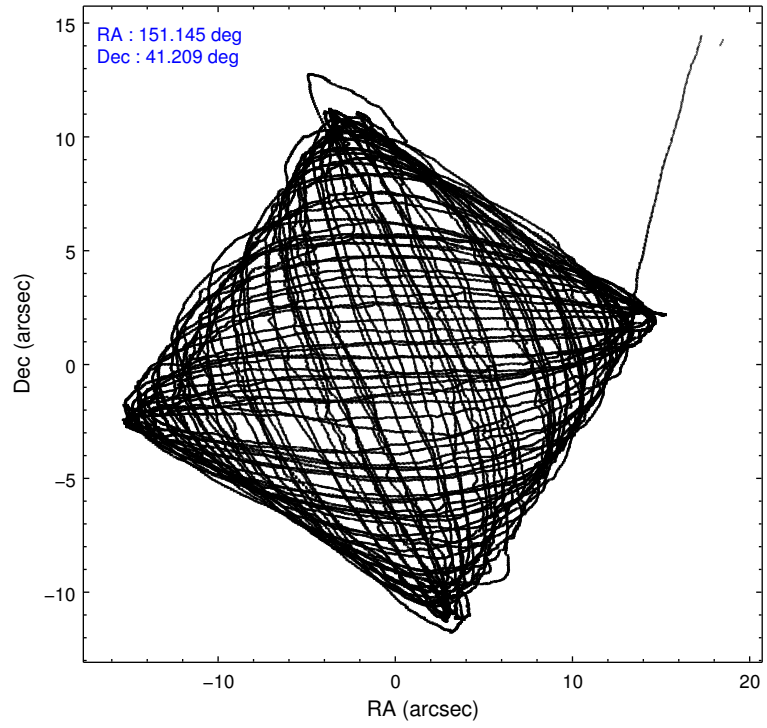
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	313613	292824	326675	381870	390971
rejected events	271672	263068	280722	216674	289924
rejected %	86%	89%	85%	56%	74%

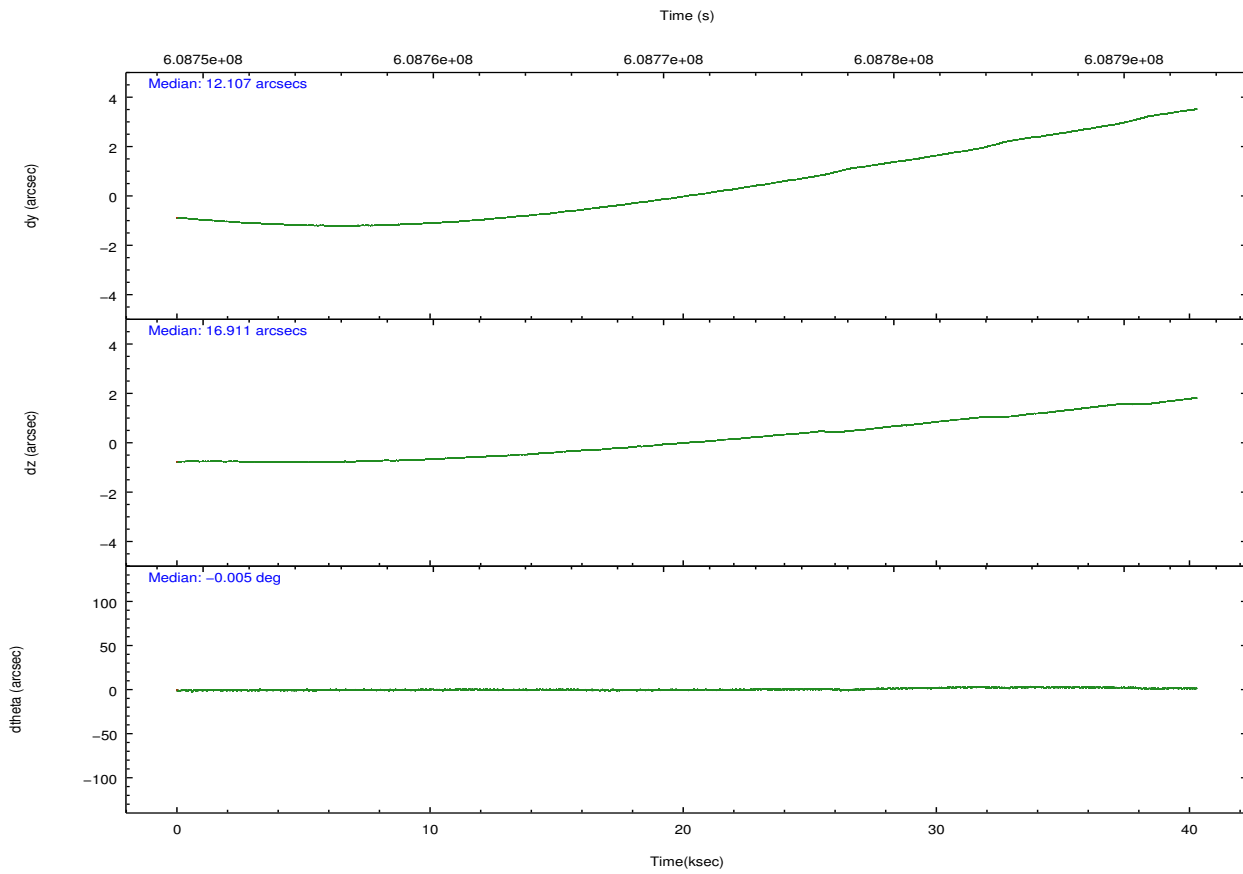
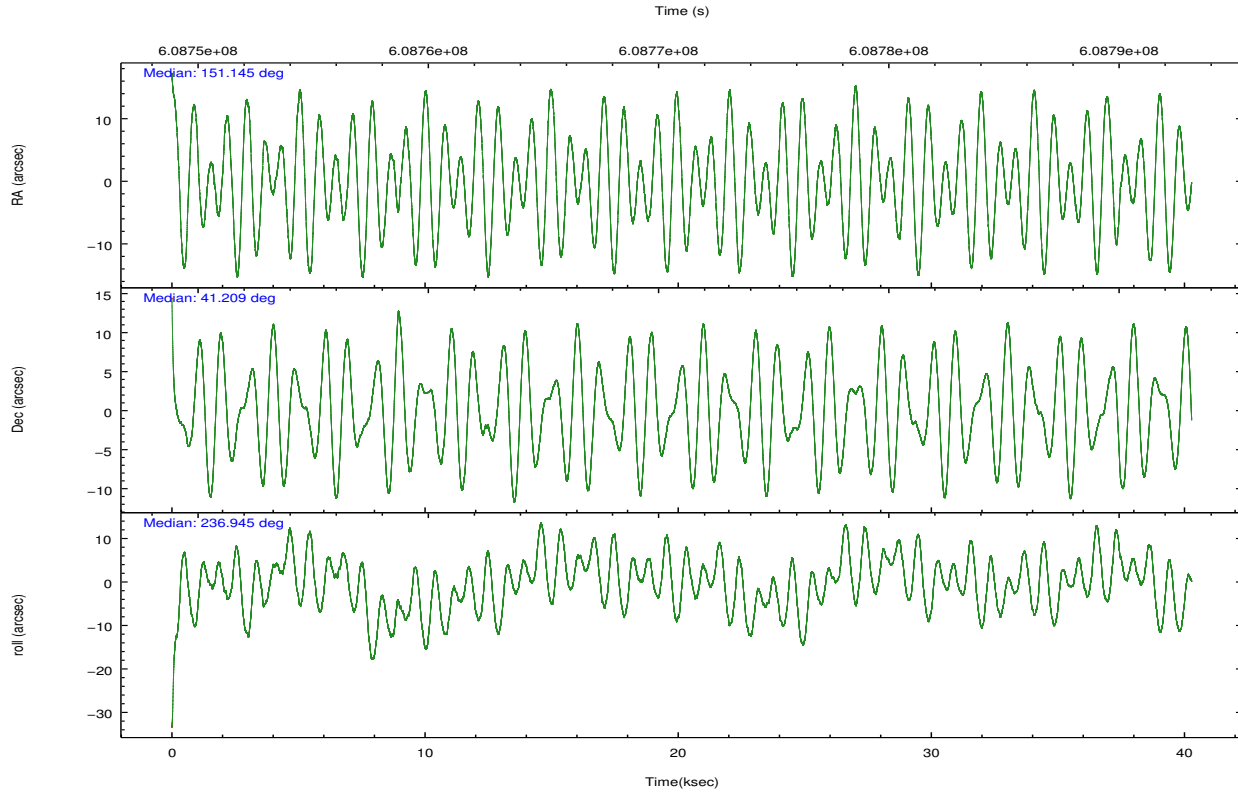
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	10447	10313	23099	14086	28471
	3%	3%	7%	3%	7%
grade 1 events	158	153	239	548	316
	0%	0%	0%	0%	0%
grade 2 events	19454	6599	8122	35553	24869
	6%	2%	2%	9%	6%
grade 3 events	3030	3238	3217	12764	10459
	0%	1%	0%	3%	2%
grade 4 events	3094	3159	3301	12505	9784
	0%	1%	1%	3%	2%
grade 5 events	11003	13536	13820	36241	20855
	3%	4%	4%	9%	5%
grade 6 events	5920	6451	8222	90300	27515
	1%	2%	2%	23%	7%
grade 7 events	260507	249375	266655	179873	268702
	83%	85%	81%	47%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	151.146291	151.1448320584625	CCD I2 on	O1	Y
[deg] Pointing Dec	41.236002	41.20859560649888	CCD I3 on	O2	Y
[deg] Pointing Roll	236.790470	236.9480564051418	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	608751155.184000	608750164.31787	CCD S5 on	N	N
Observation start date	2017-04-16T17:31:26	2017-04-16T17:16:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	608791155.184000	608791798.79528	On-chip summing requested	N	N
Observation end date	2017-04-17T04:38:06	2017-04-17T04:49:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





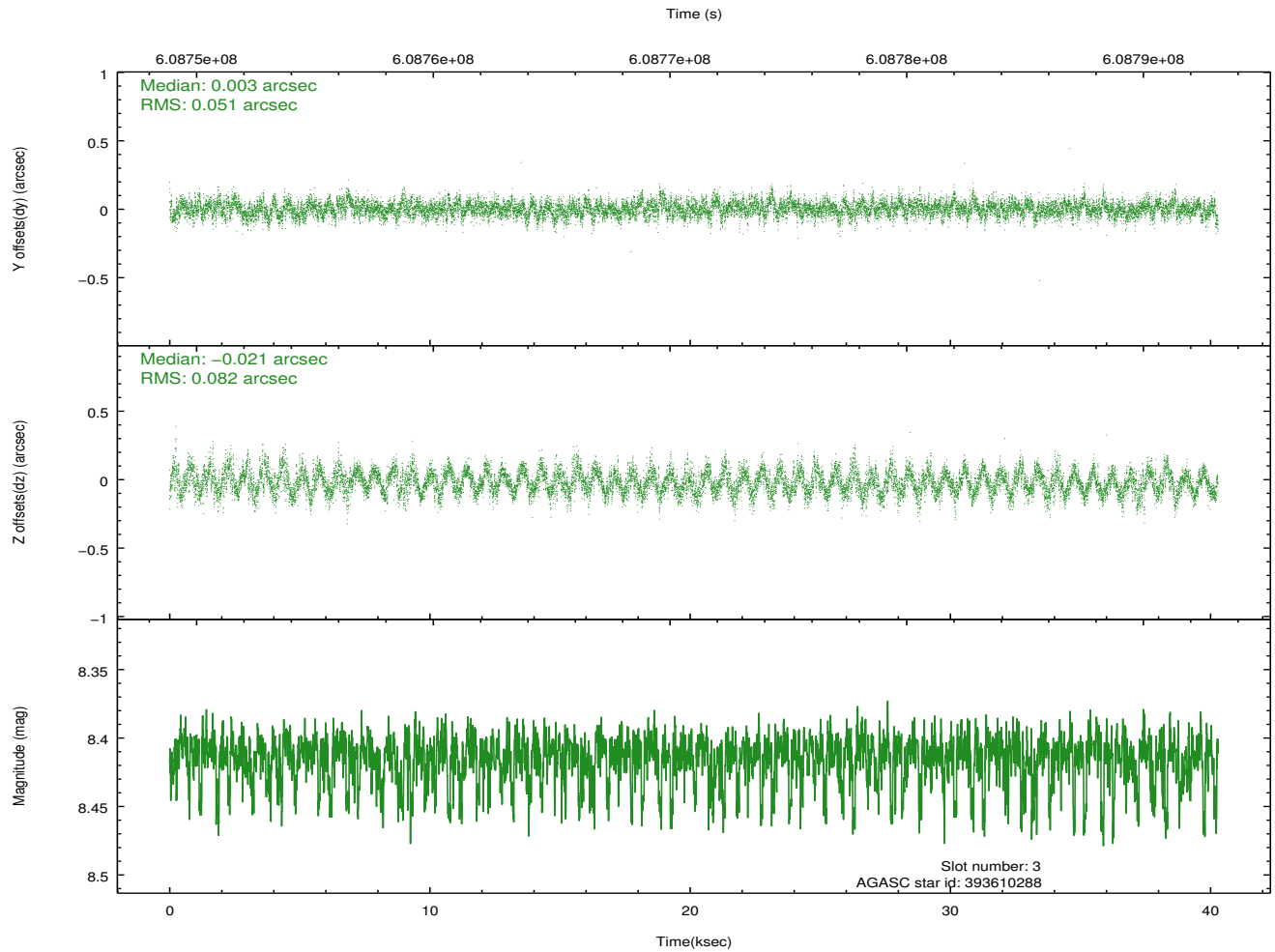
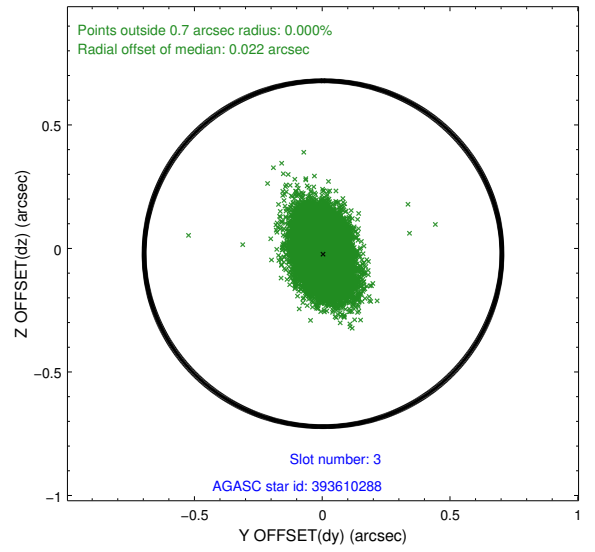
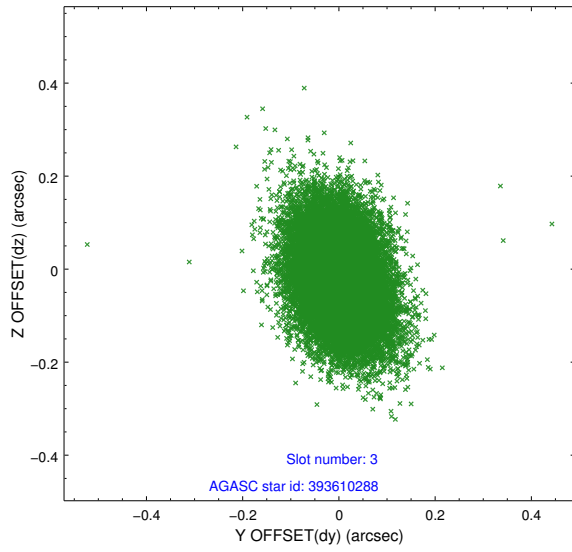
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	9825	-0.162	-0.081	0.045	0.071	0.000000	0.000000	-765.58	-1738.60
1	FID		ACIS-S-4	7.19	9826	0.408	0.097	0.034	0.096	0.000000	0.000000	2148.27	170.08
2	FID		ACIS-S-5	7.19	9826	-0.285	0.001	0.041	0.067	0.000000	0.000000	-1818.55	163.64
3	GUIDE	used	393610288	8.41	19644	0.003	-0.021	0.101	0.168	151.538899	41.090404	-145.60	1175.98
4	GUIDE	used	393611520	7.26	19650	0.110	0.156	0.103	0.170	150.852248	42.009344	-1899.63	-2183.60
5	GUIDE	used	393616816	8.40	19647	-0.224	-0.024	0.110	0.178	151.562975	40.925077	314.36	1558.92
6	GUIDE	used	393619280	9.36	19627	0.235	-0.203	0.127	0.208	150.915222	40.640455	2140.33	646.32
7	GUIDE	used	393613624	8.47	19641	-0.121	0.090	0.097	0.159	151.136661	40.665270	1733.57	1103.89

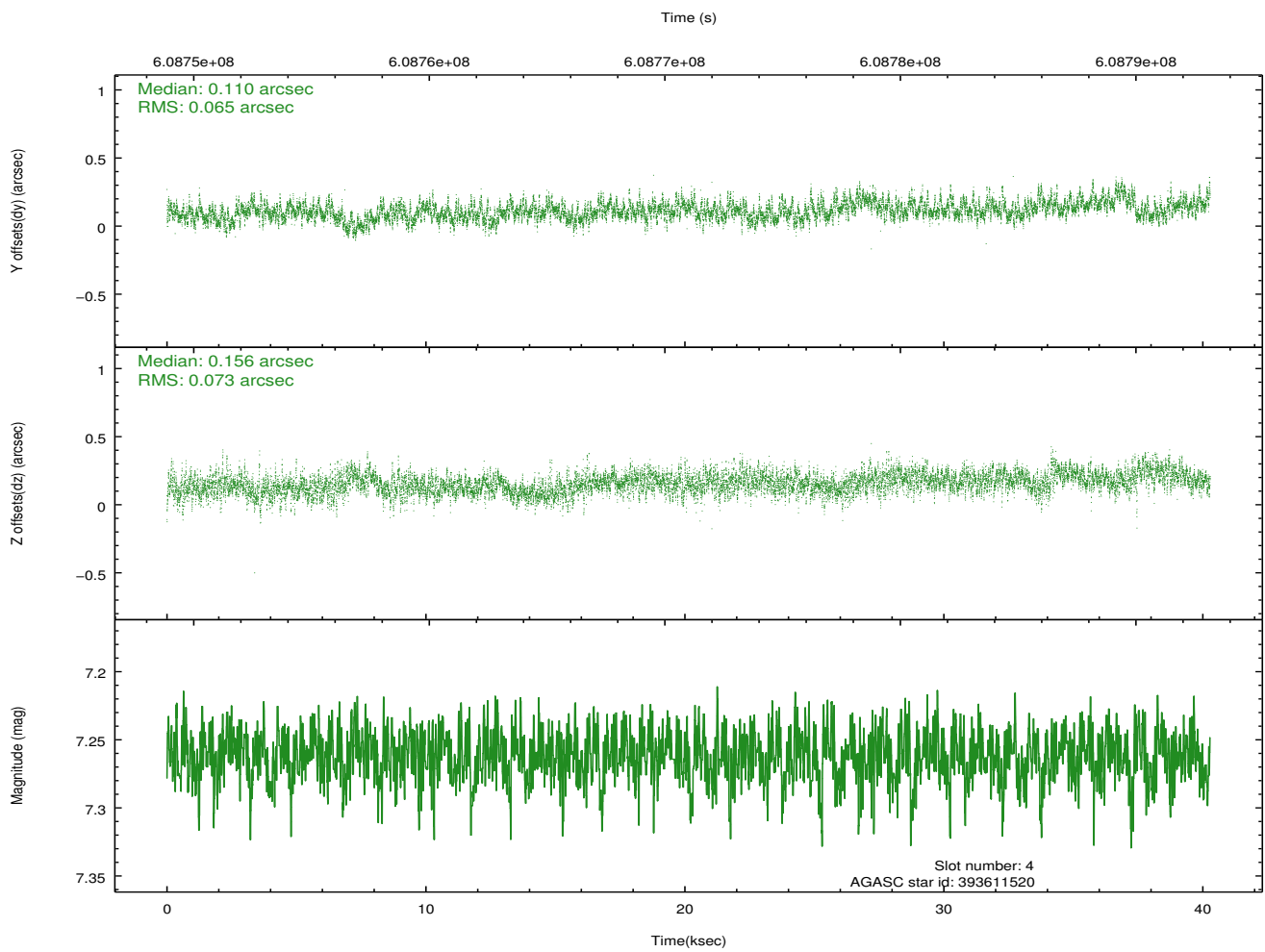
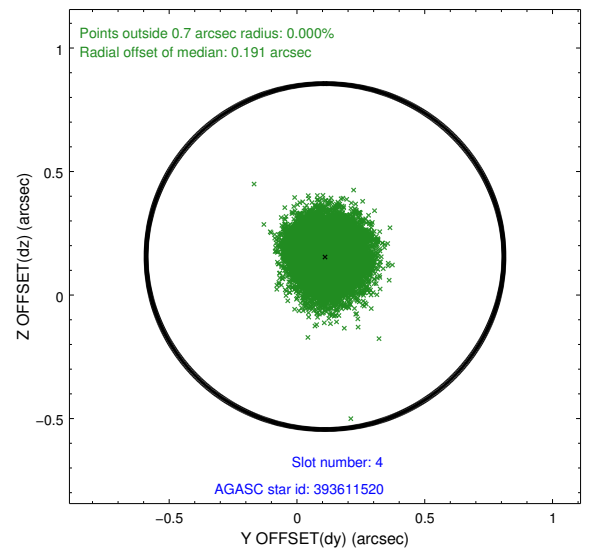
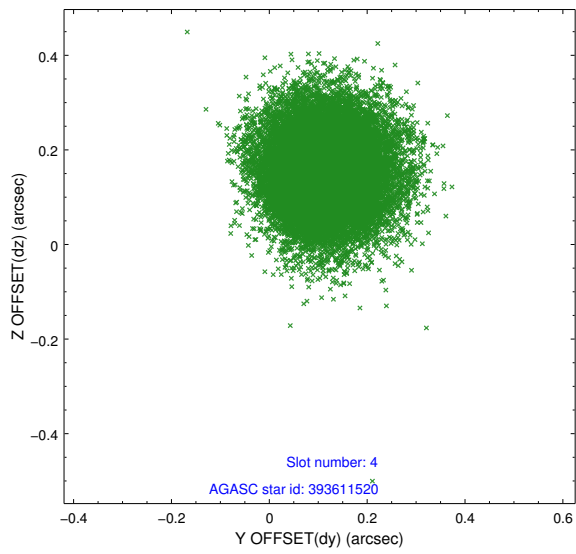
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2.4 Star Slots

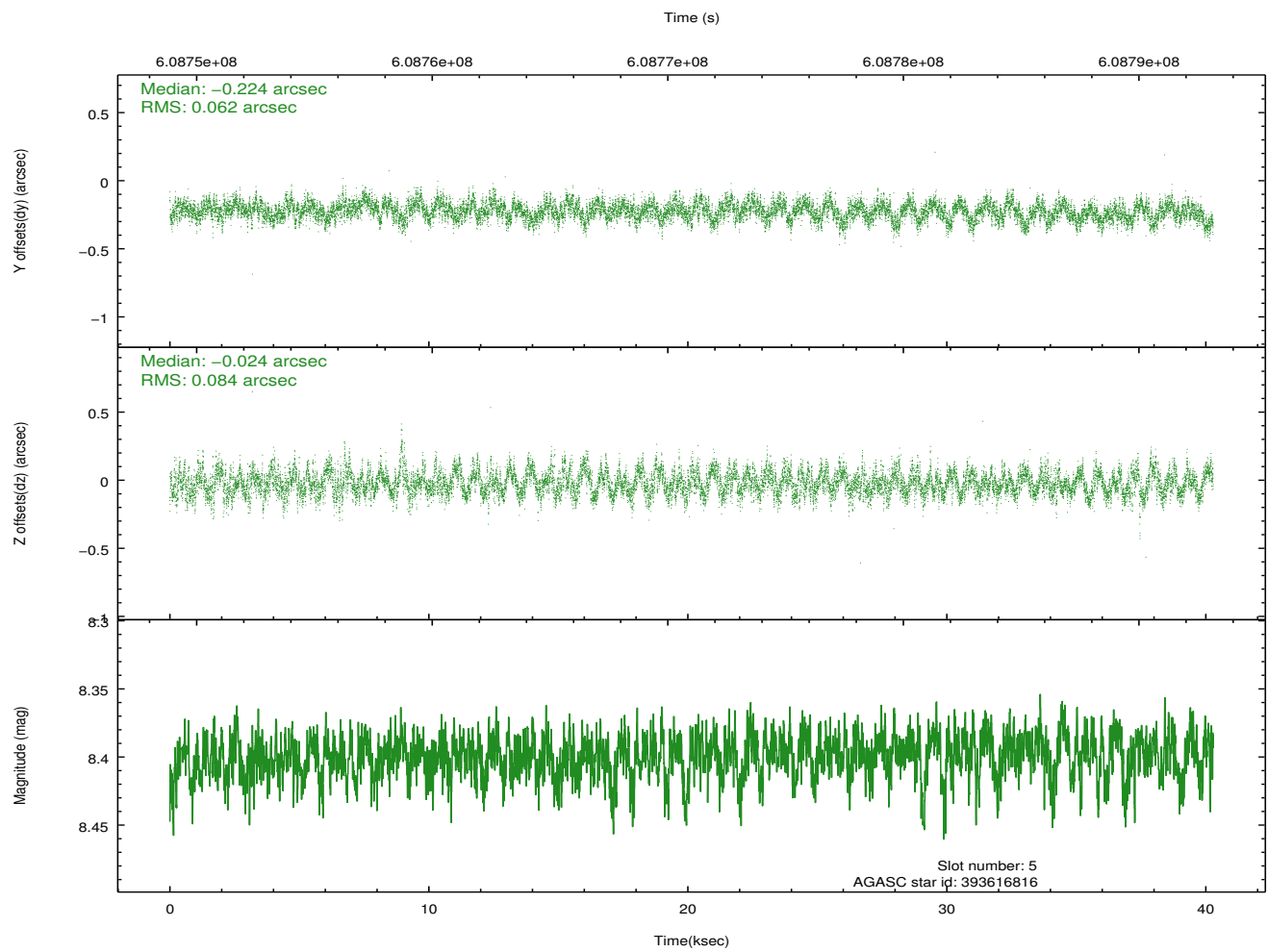
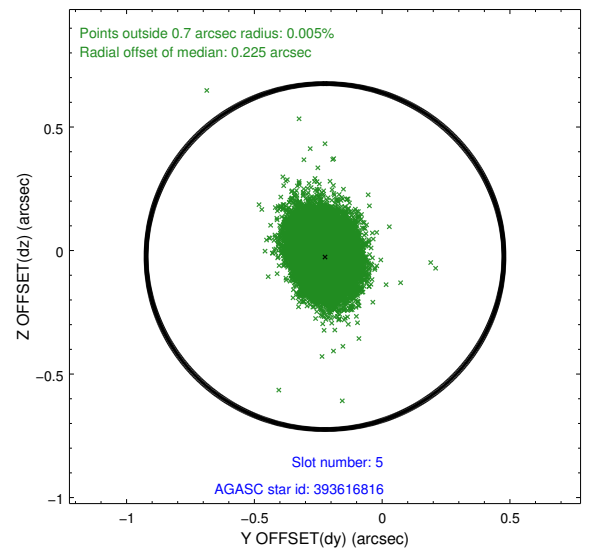
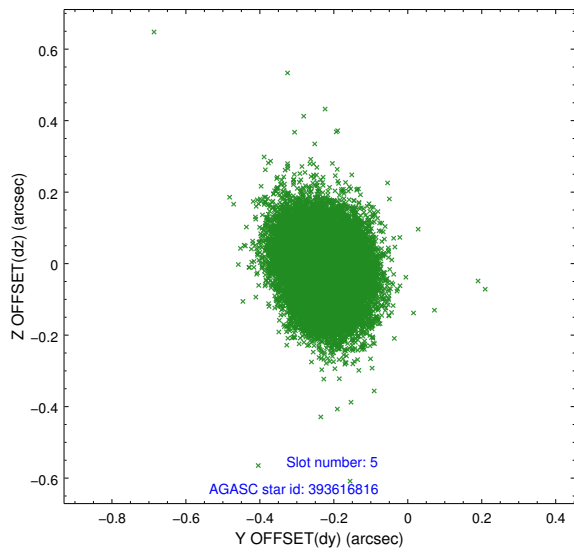
2.4.1 Slot 3



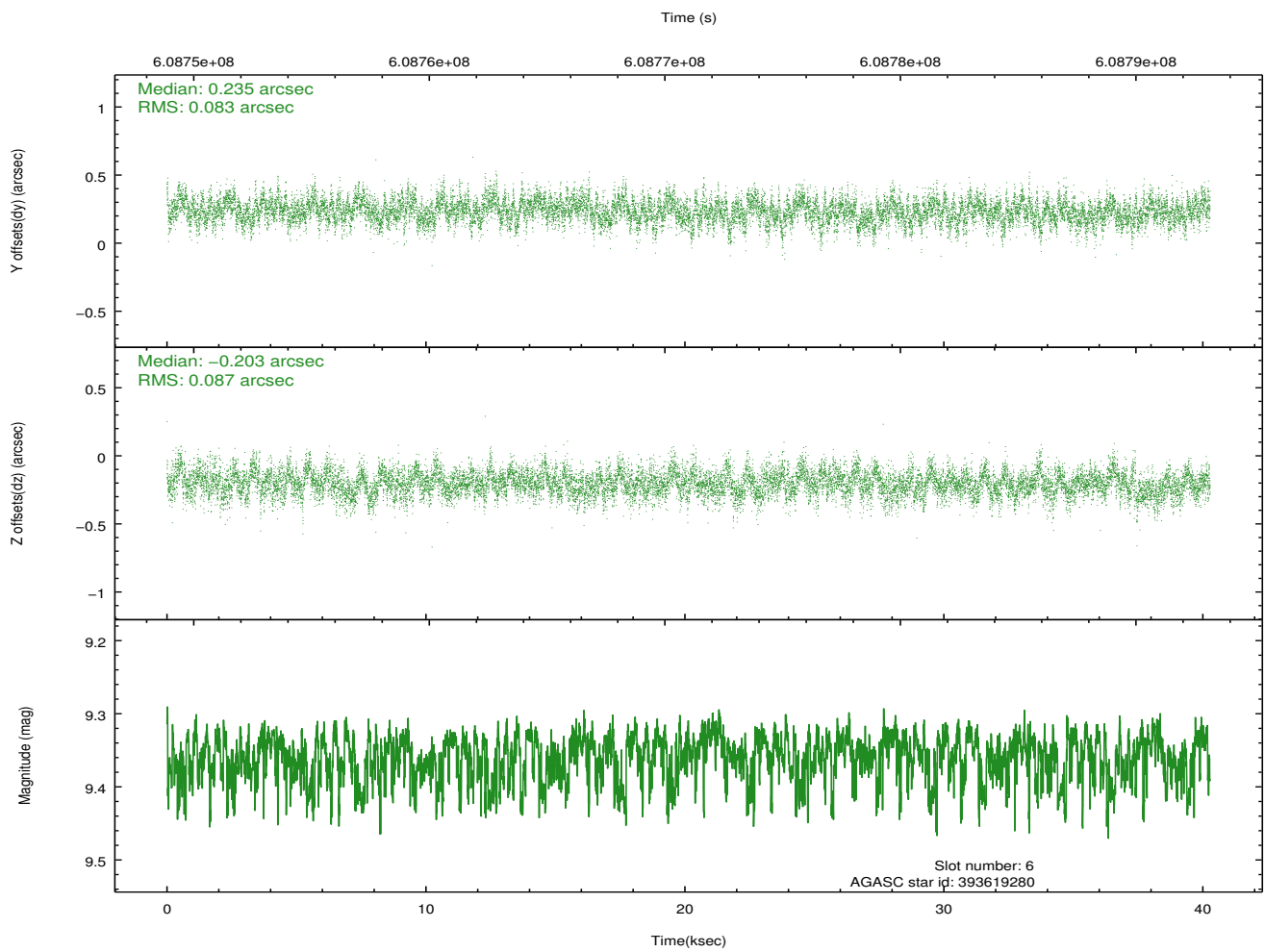
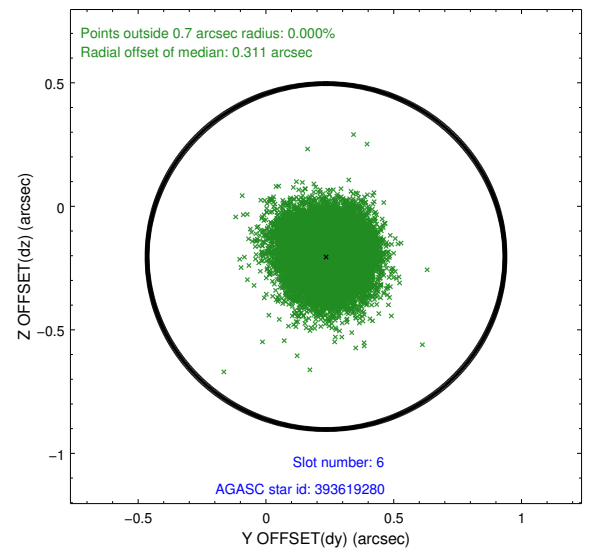
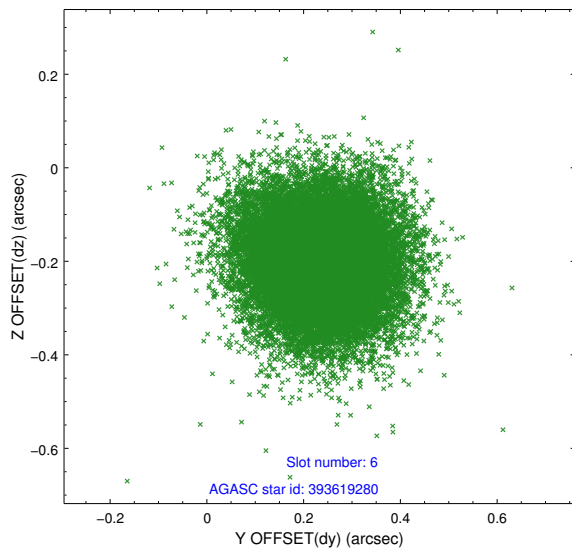
2.4.2 Slot 4



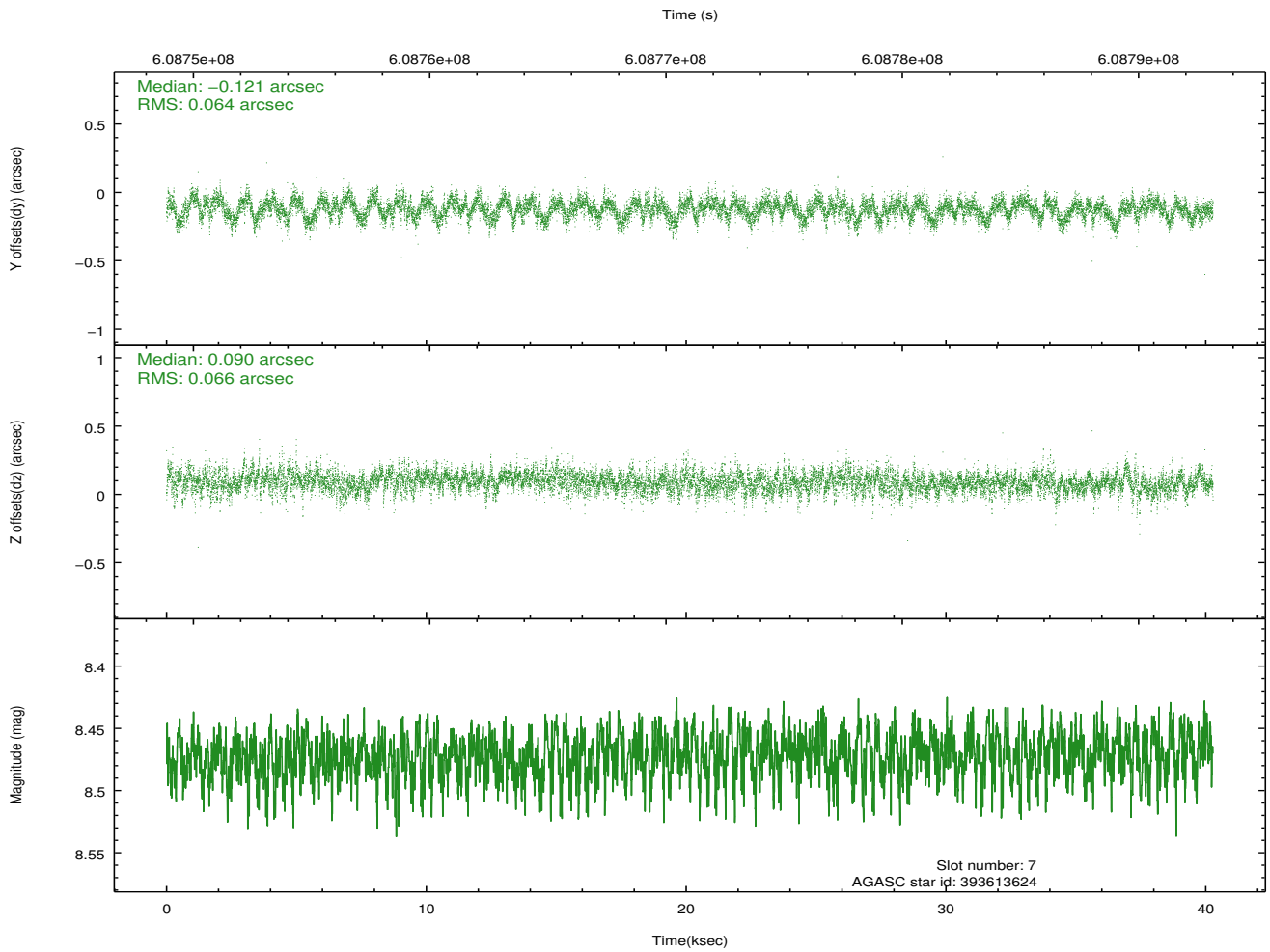
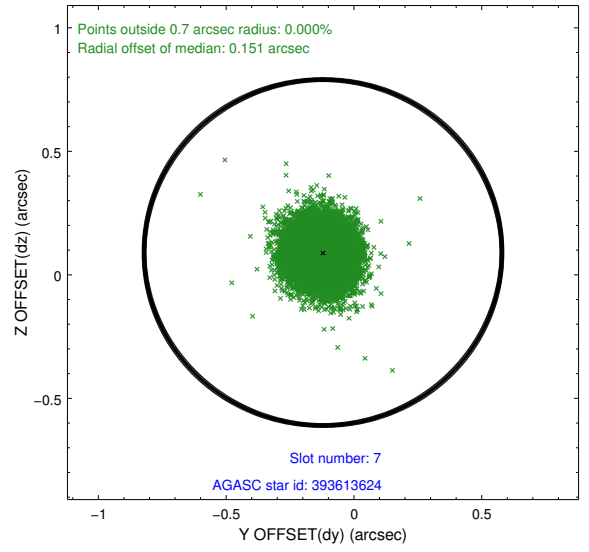
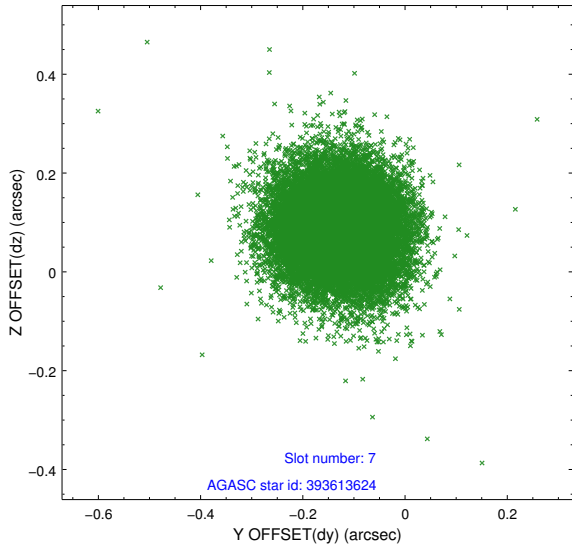
2.4.3 Slot 5



2.4.4 Slot 6

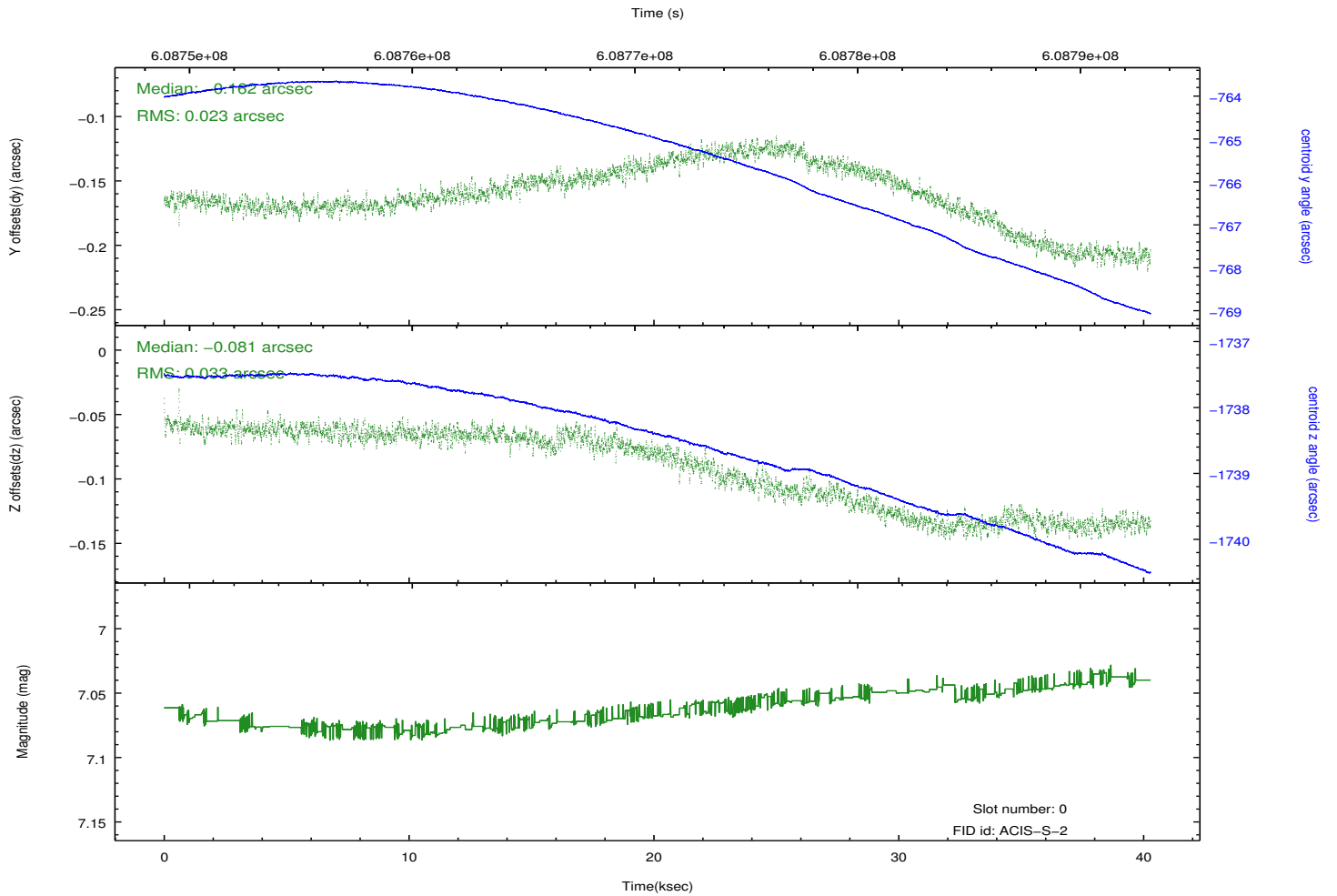
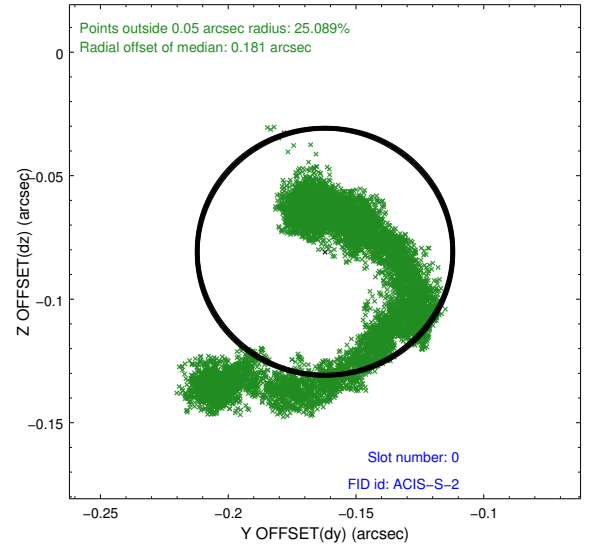
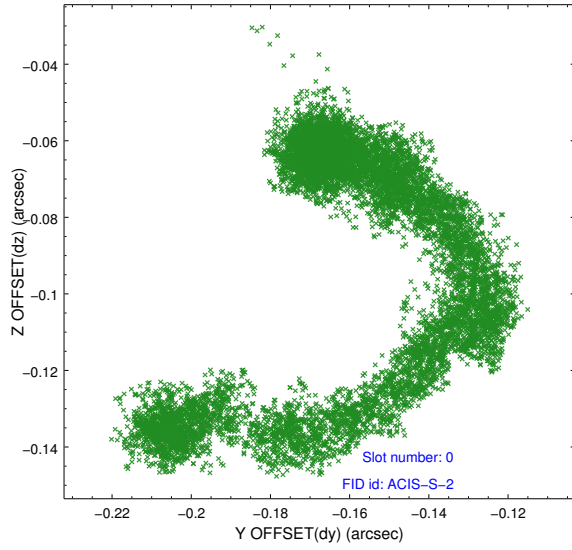


2.4.5 Slot 7

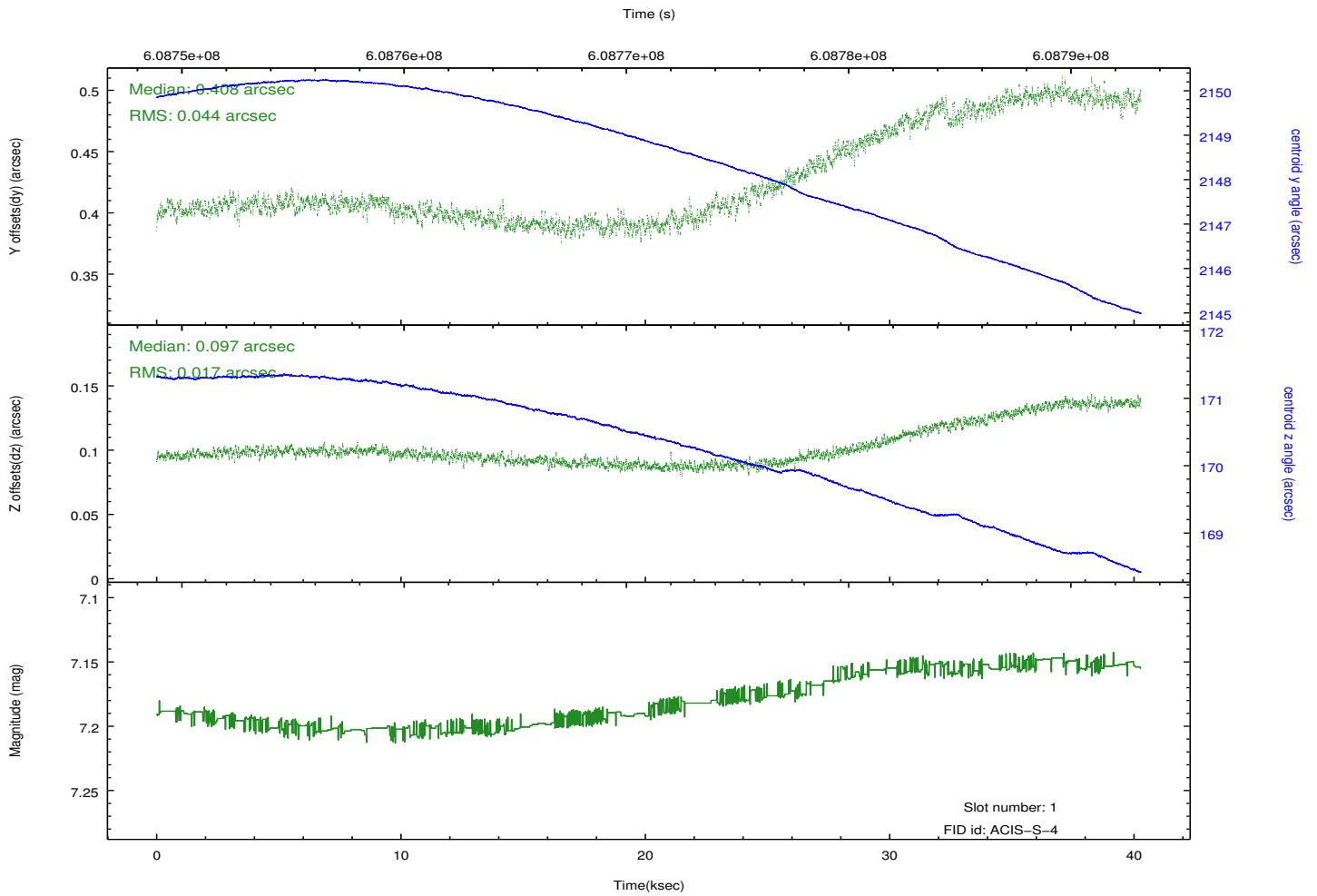
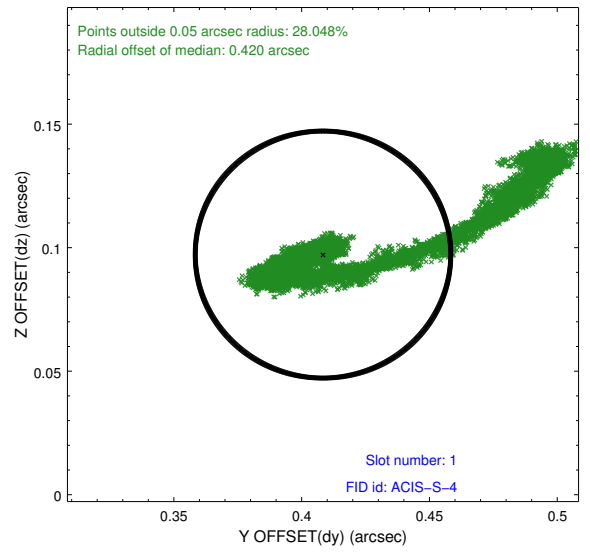
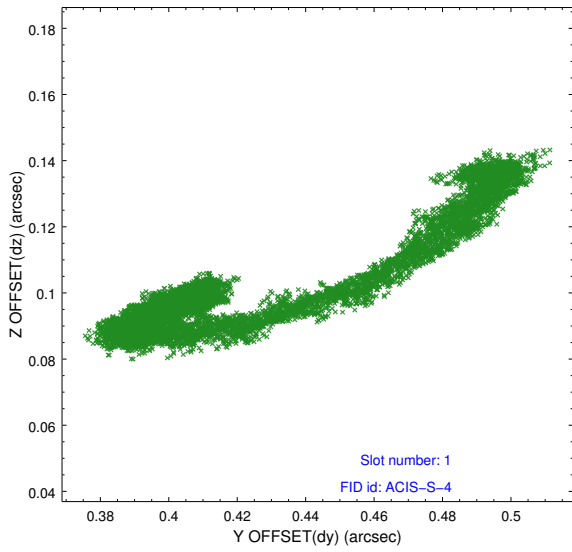


2.5 FID Slots

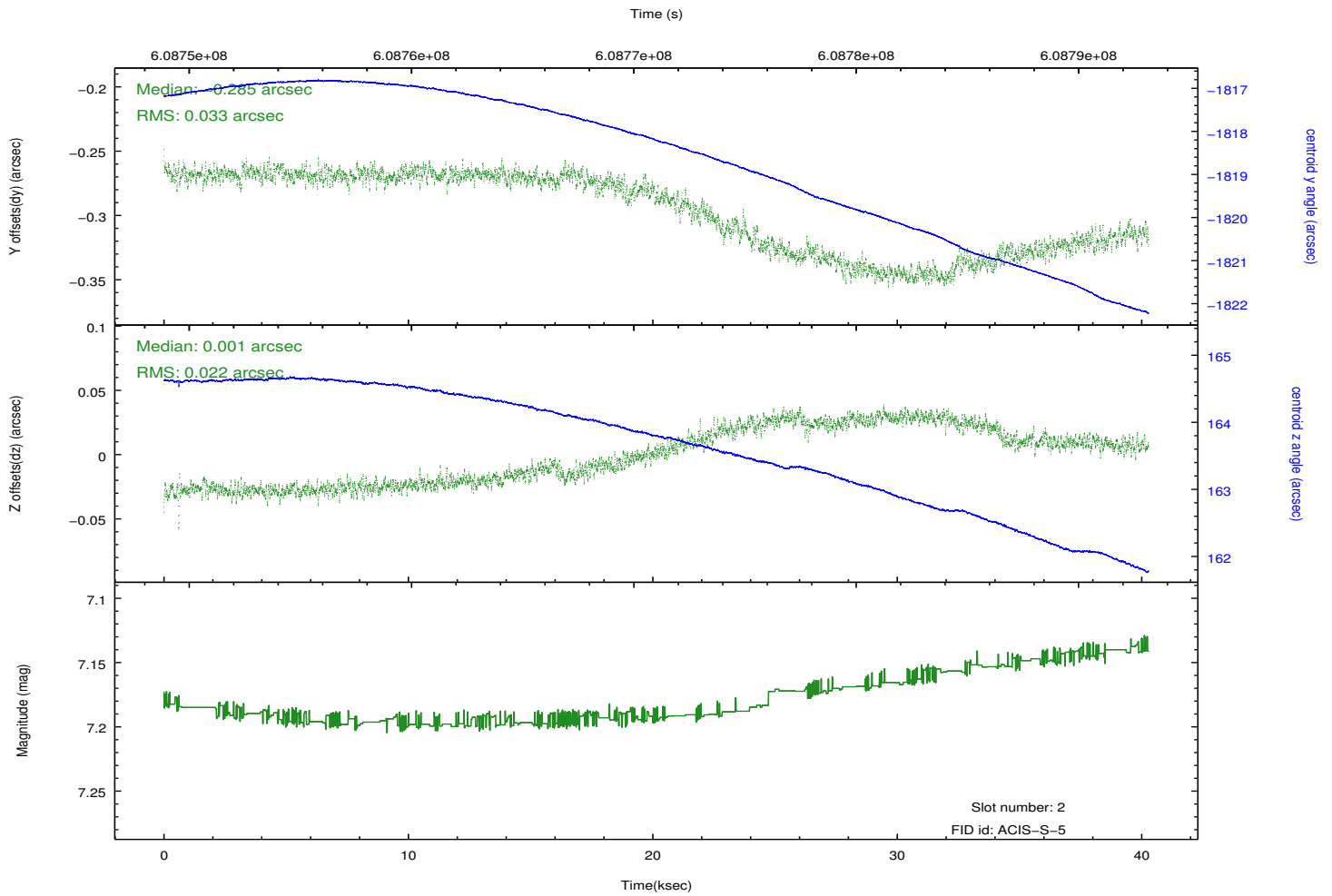
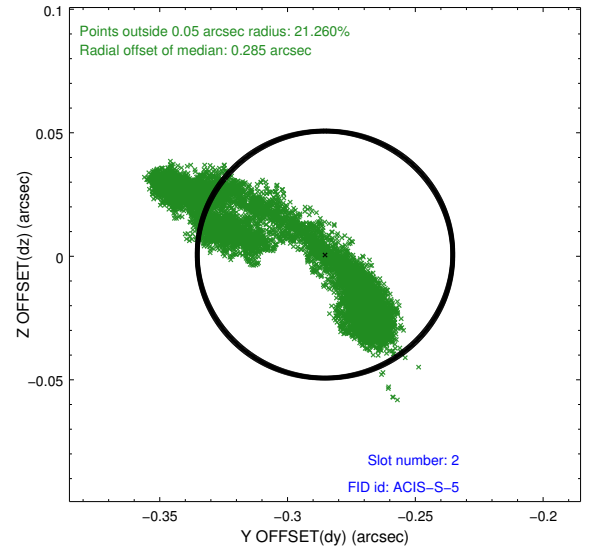
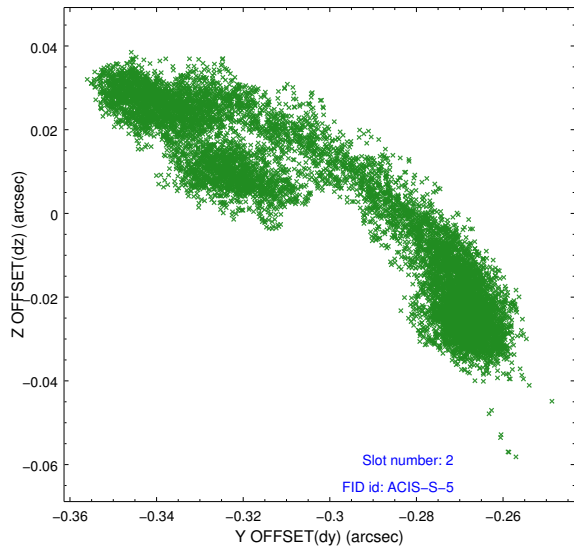
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.048900308132

A.2 Comments