

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22130 - L2 Version 1
Chandra X-Ray Center

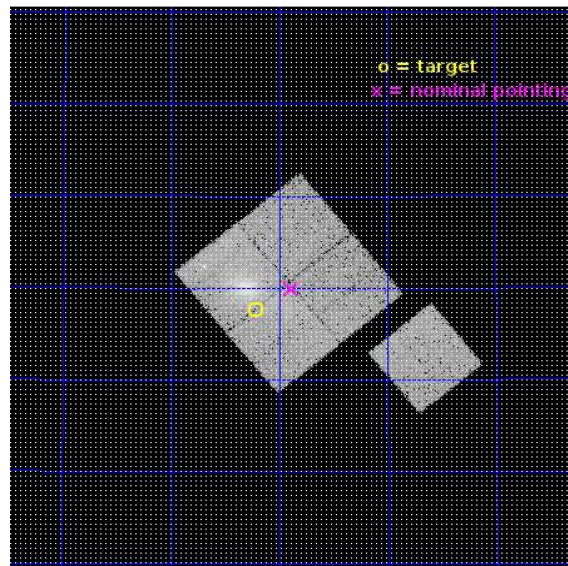
L2 Processing Date : Mar 17 2019

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1 Front

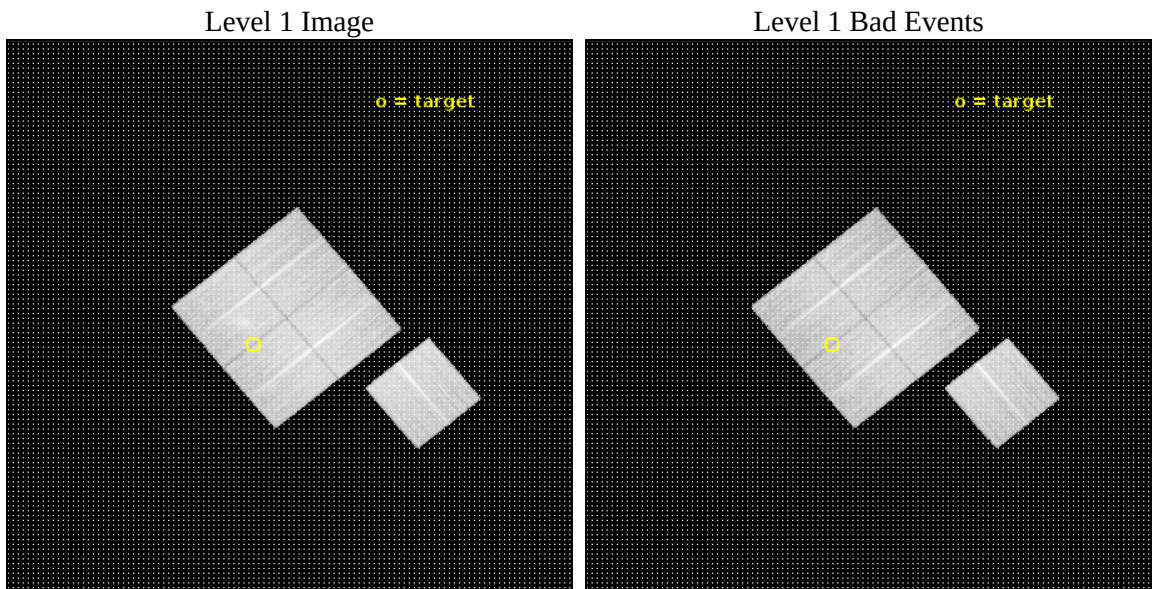
seq_num	801786	Sequence number
obs_id	22130	Observation id
title	Abell 1763: A Giant Gas Sloshing Spiral But No Cool Core	Proposal
observer	Edmund Douglass	Principal investigator
object	Abell 1763	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.804167	Observer's specified target RA [deg]
dec_targ	40.96	Observer's specified target Dec [deg]
ra_nom	203.72232433878	Nominal RA [deg]
dec_nom	40.998566852609	Nominal Dec [deg]
roll_nom	140.57920987149	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23054.659127235	Sum of GTIs [s]
livetime	22753.433033145	Livetime [s]
ontime0	23035.812824845	Sum of GTIs [s]
ontime1	23054.659127235	Sum of GTIs [s]
ontime2	23054.659107208	Sum of GTIs [s]
ontime3	23057.800177455	Sum of GTIs [s]
ontime6	23054.659127235	Sum of GTIs [s]
l2events	95176	Number of level 2 events



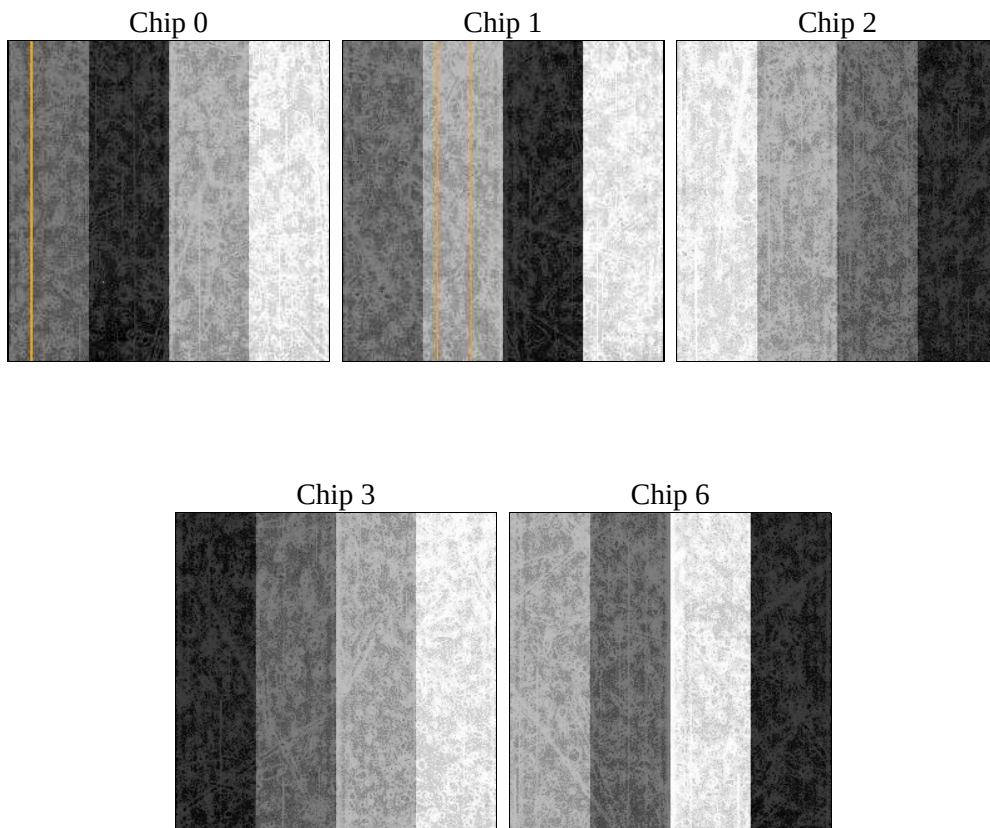
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	23054.659127235	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	23035.812824845	Sum of GTIs [s]
date	2019-03-17T14:12:11	Date and time of file creation	ontime1	23054.659127235	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	23054.659107208	Sum of GTIs [s]
			ontime3	23057.800177455	Sum of GTIs [s]
			ontime6	23054.659127235	Sum of GTIs [s]
			l1events	874008	Number of level 1 events

2.1.4 Events

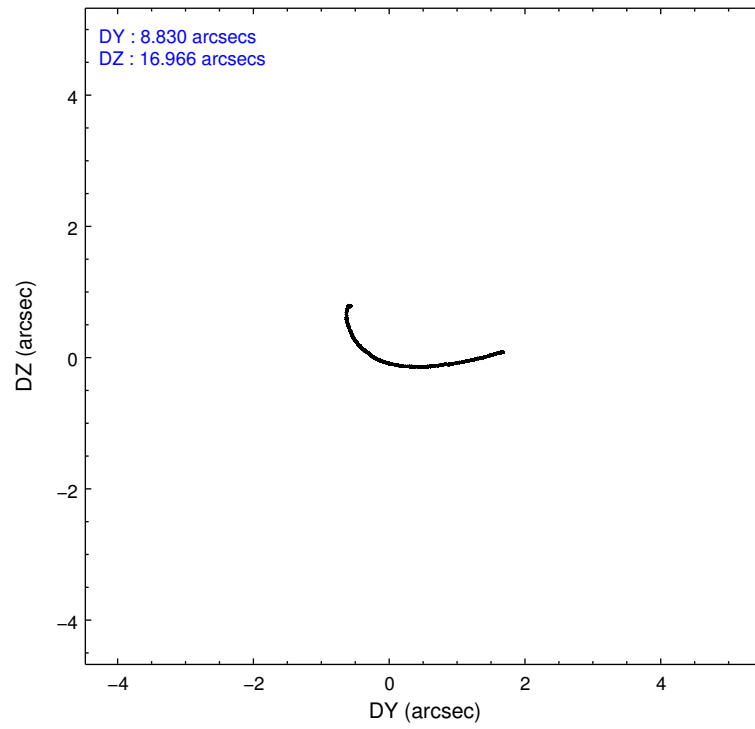
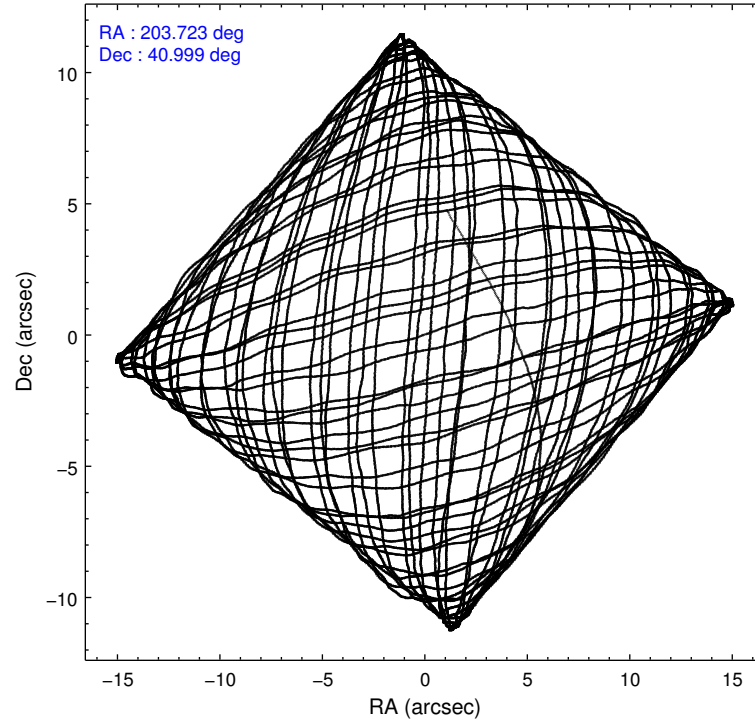
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	160232	175704	182298	176365	179409
rejected events	140895	143030	163593	156266	159849
rejected %	87%	81%	89%	88%	89%

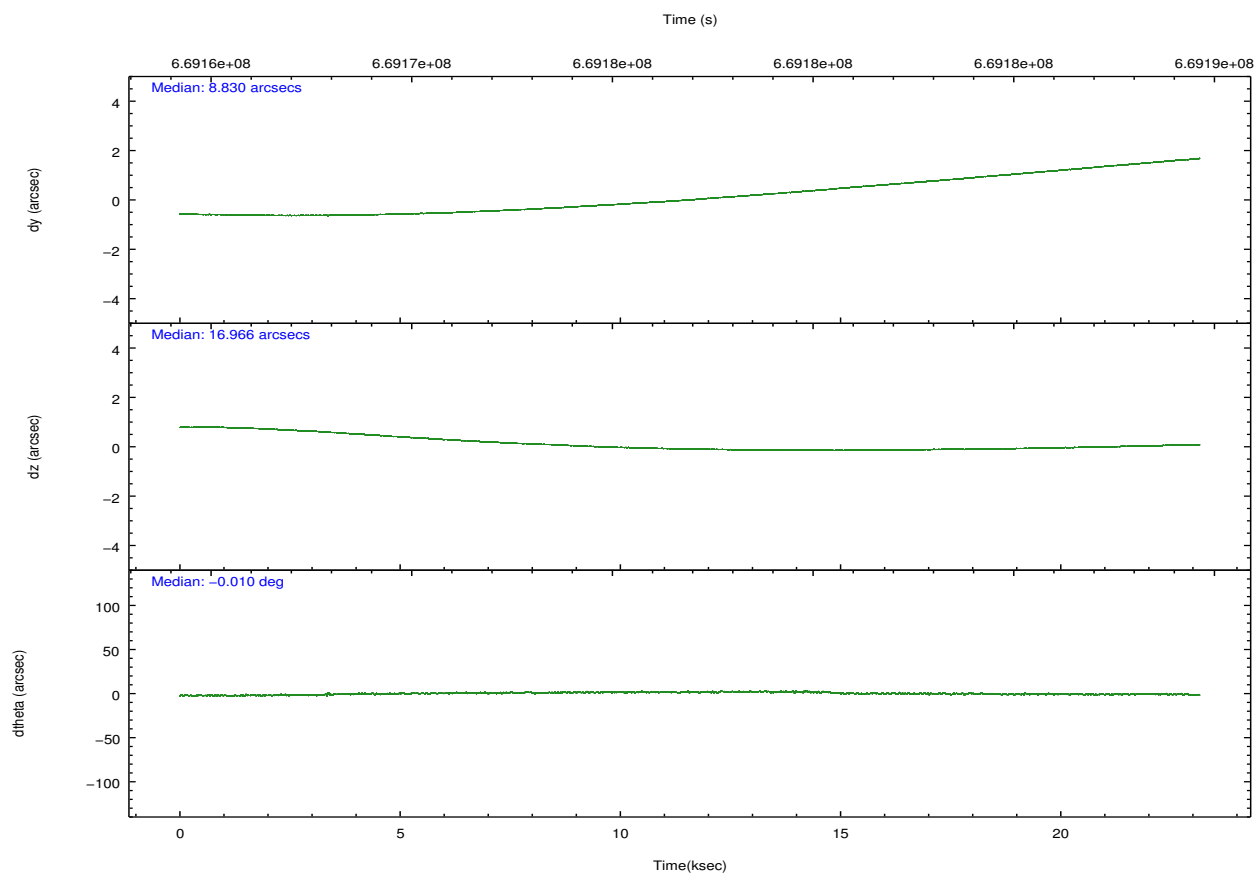
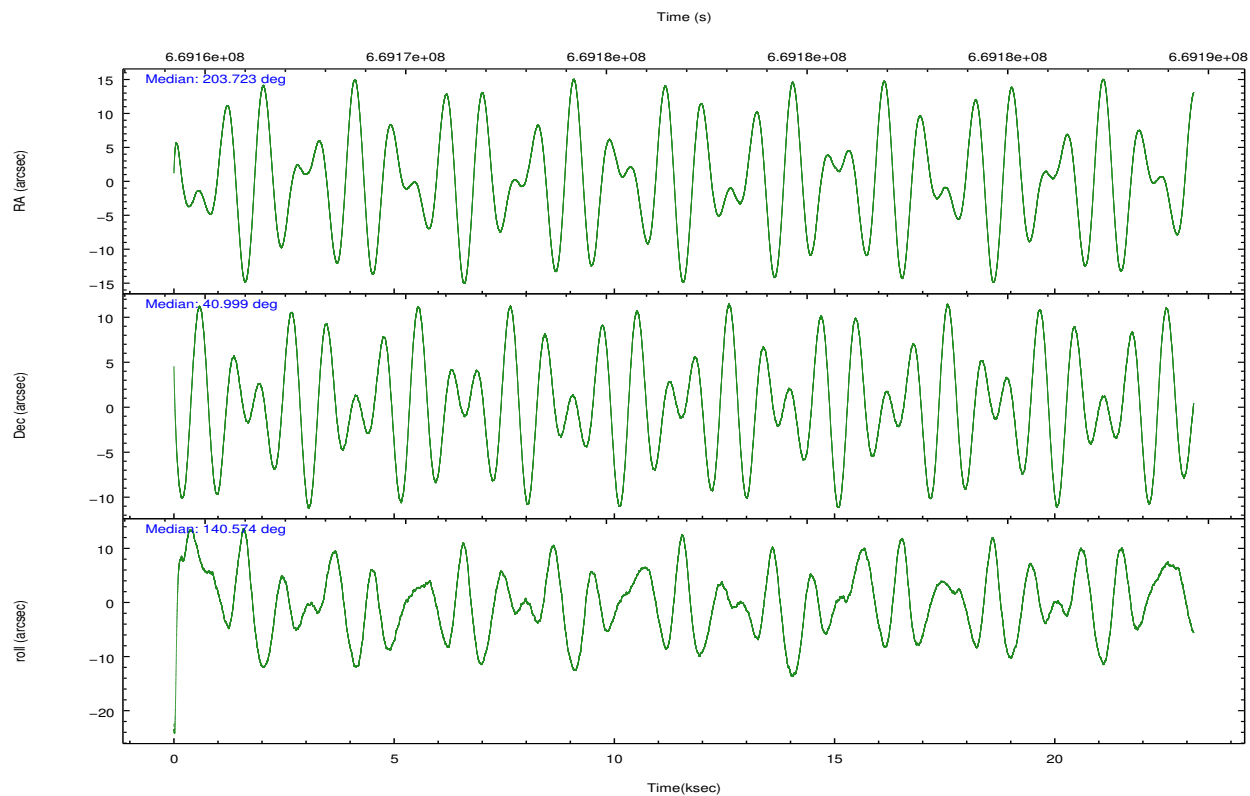
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6738	15572	6548	7935	6032
	4%	8%	3%	4%	3%
grade 1 events	99	110	114	98	70
	0%	0%	0%	0%	0%
grade 2 events	4755	7100	4552	4179	4993
	2%	4%	2%	2%	2%
grade 3 events	1944	2299	1910	1981	1796
	1%	1%	1%	1%	1%
grade 4 events	1721	2268	1836	1987	1844
	1%	1%	1%	1%	1%
grade 5 events	7215	7510	6842	8146	7583
	4%	4%	3%	4%	4%
grade 6 events	4180	5444	3862	4024	4904
	2%	3%	2%	2%	2%
grade 7 events	133580	135401	156634	148015	152187
	83%	77%	85%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	203.758422	203.7223243387848	CCD I2 on	Y	Y
[deg] Pointing Dec	40.994168	40.99856685260914	CCD I3 on	Y	Y
[deg] Pointing Roll	140.346859	140.5792098714928	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	669165504.184000	669164398.2740999	CCD S5 on	N	N
Observation start date	2019-03-16T23:17:15	2019-03-16T22:59:58	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	669188504.184000	669188917.30056	On-chip summing requested	N	N
Observation end date	2019-03-17T05:40:35	2019-03-17T05:48:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



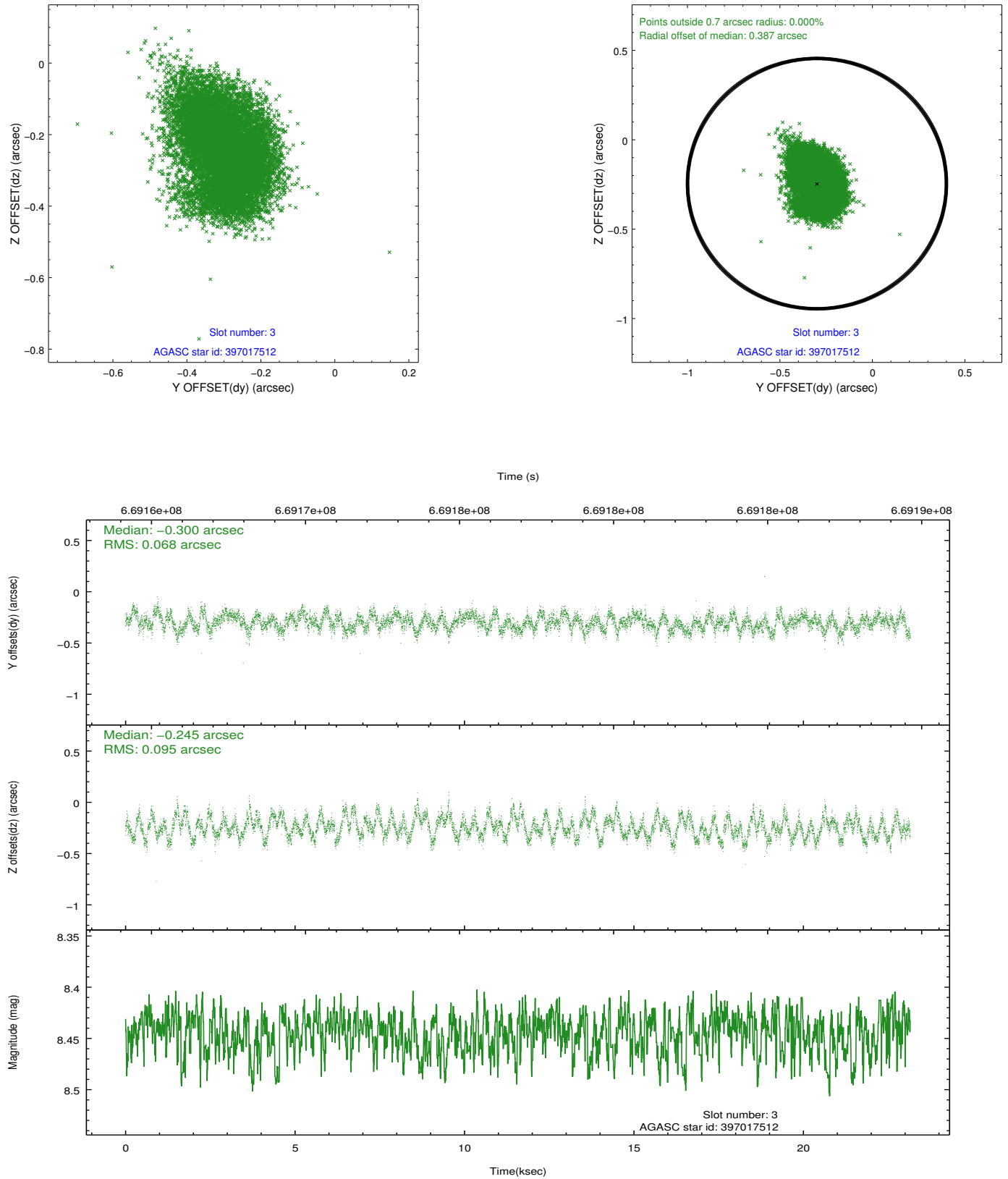


Slot Statistics

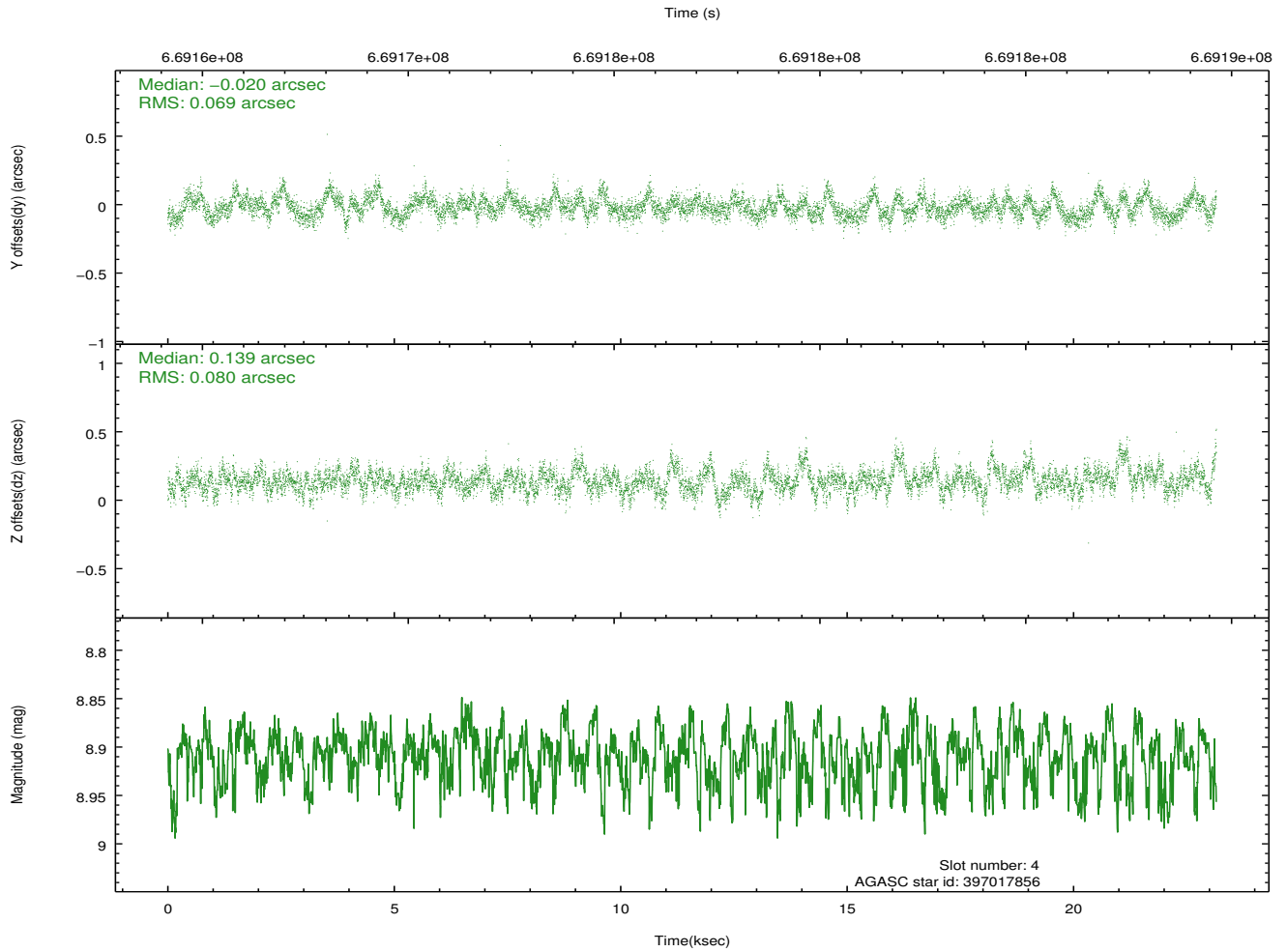
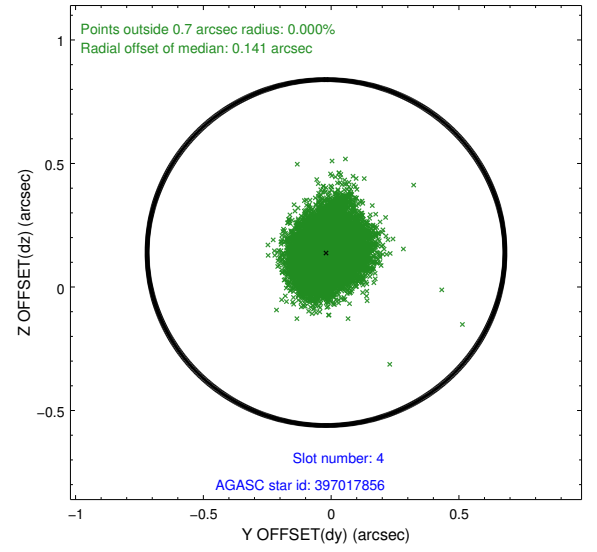
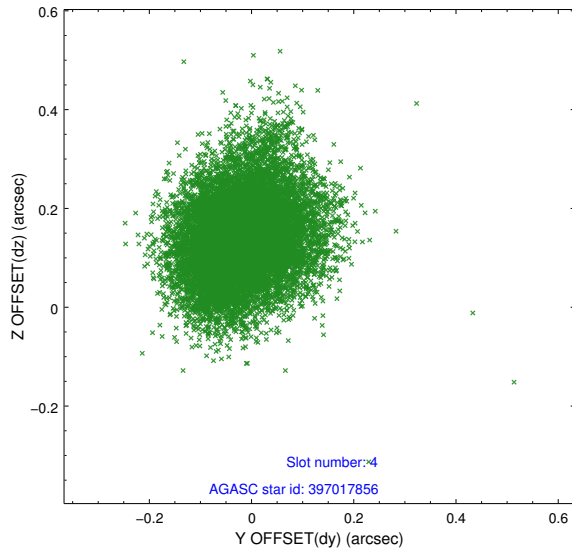
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	5647	1.000	0.223	-0.204	0.007	0.012	0.000000	0.000000	930.95	-840
1	FID		ACIS-I-3	7.45	5646	1.000	-0.075	0.152	0.011	0.019	0.000000	0.000000	48.25	-973
2	FID		ACIS-I-5	7.22	5647	1.000	-0.238	0.124	0.011	0.020	0.000000	0.000000	-1817.96	1056
3	GUIDE	used	397017512	8.44	11290	1.000	-0.300	-0.245	0.127	0.197	203.541204	41.269966	1087.03	-389
4	GUIDE	used	397017856	8.91	11277	1.000	-0.020	0.139	0.111	0.184	204.301076	41.001312	-1115.00	-963
5	GUIDE	used	397020624	8.51	11285	1.000	0.135	0.249	0.127	0.205	204.395156	41.434823	-306.62	-2319
6	GUIDE	used	397020968	9.23	11280	1.000	0.226	0.263	0.168	0.266	204.498416	41.216332	-1026.45	-1900
7	GUIDE	used	397024152	8.86	11281	1.000	-0.051	-0.410	0.114	0.179	203.568845	40.711407	-251.18	1113

2.4 Star Slots

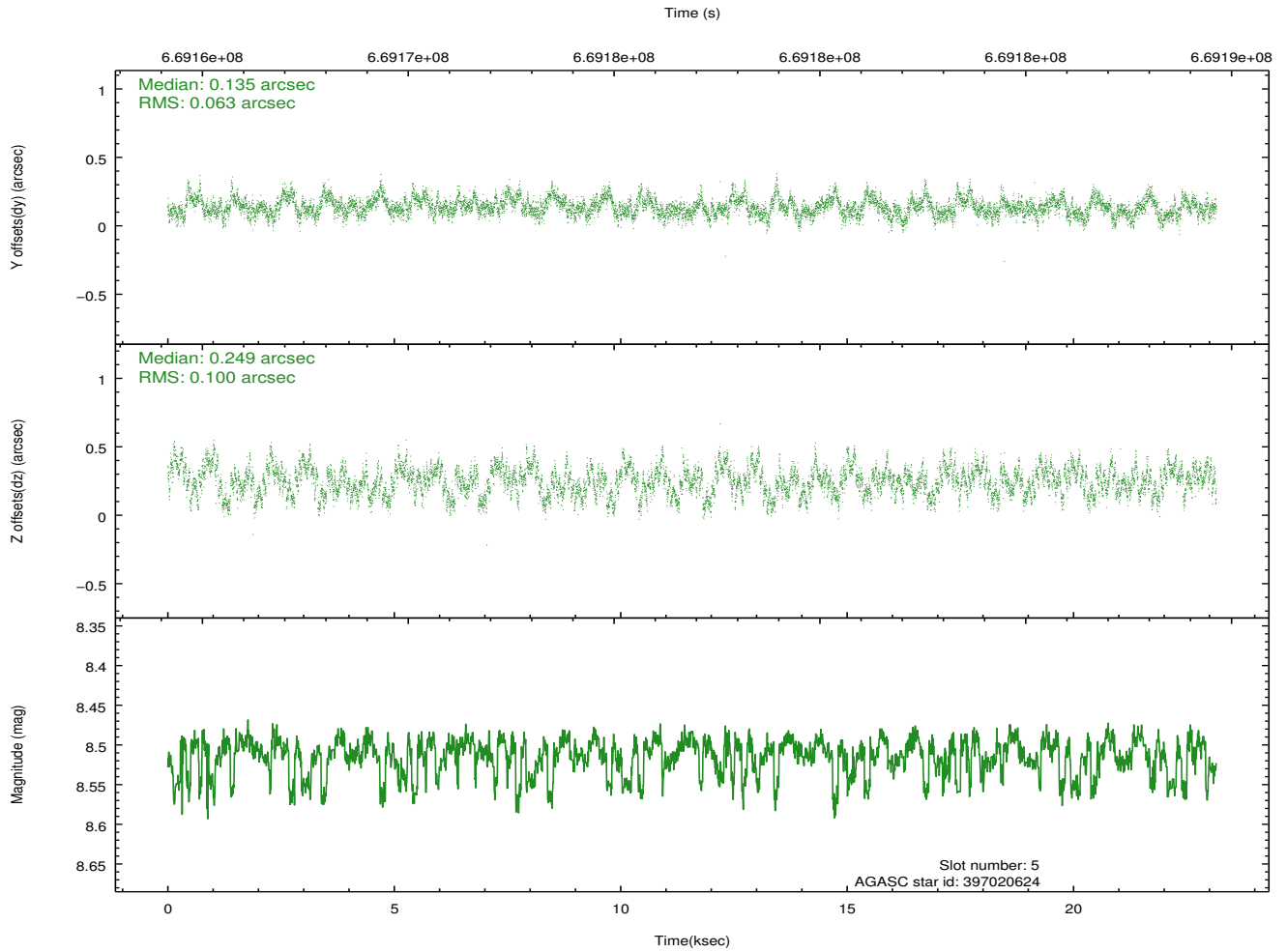
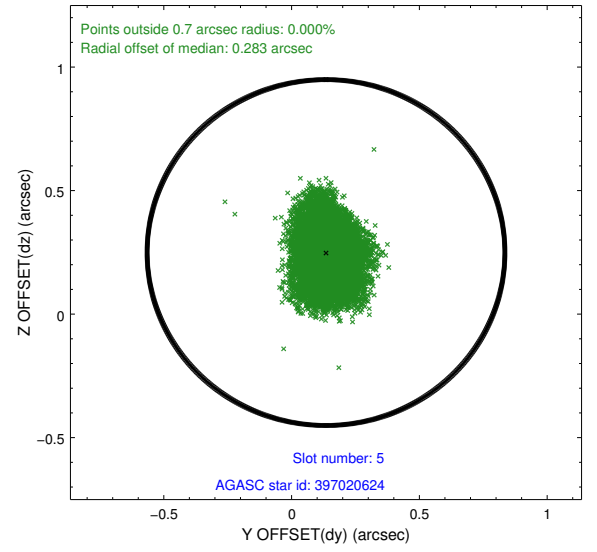
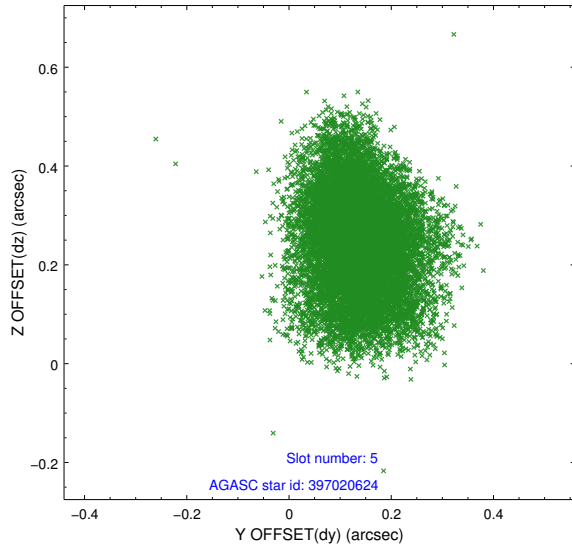
2.4.1 Slot 3



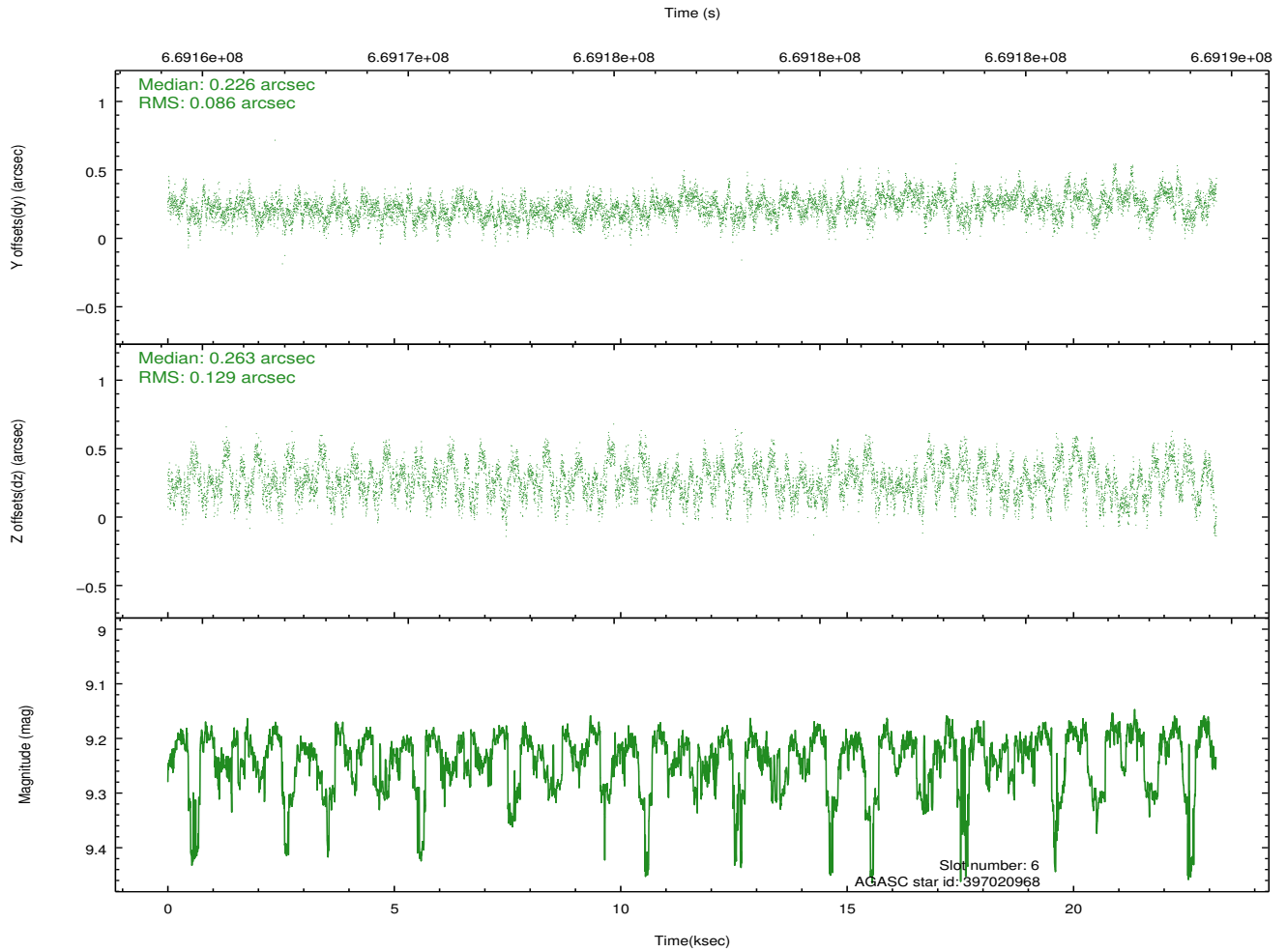
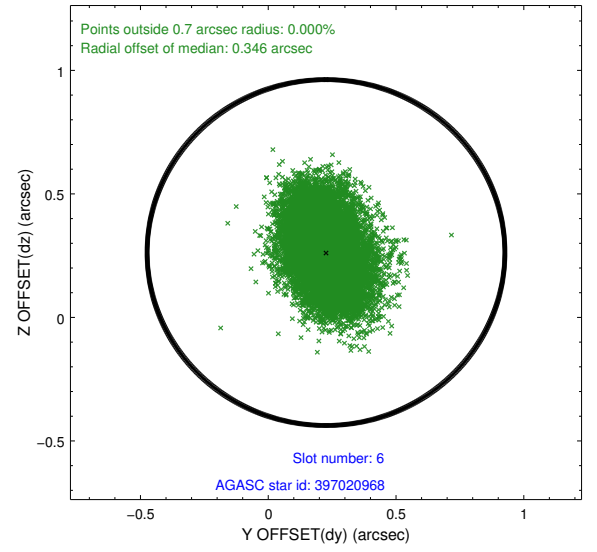
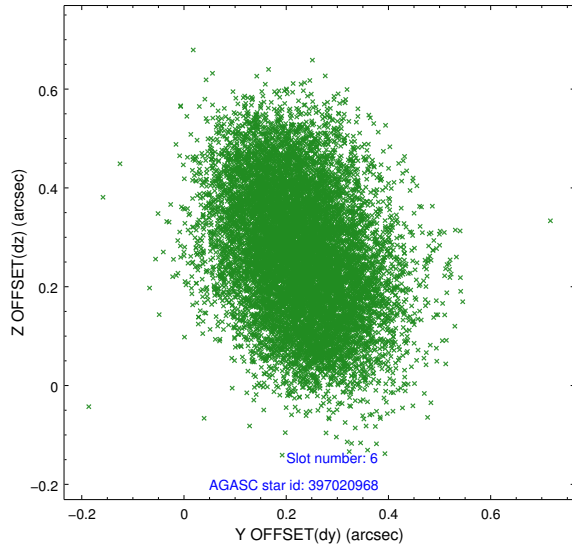
2.4.2 Slot 4



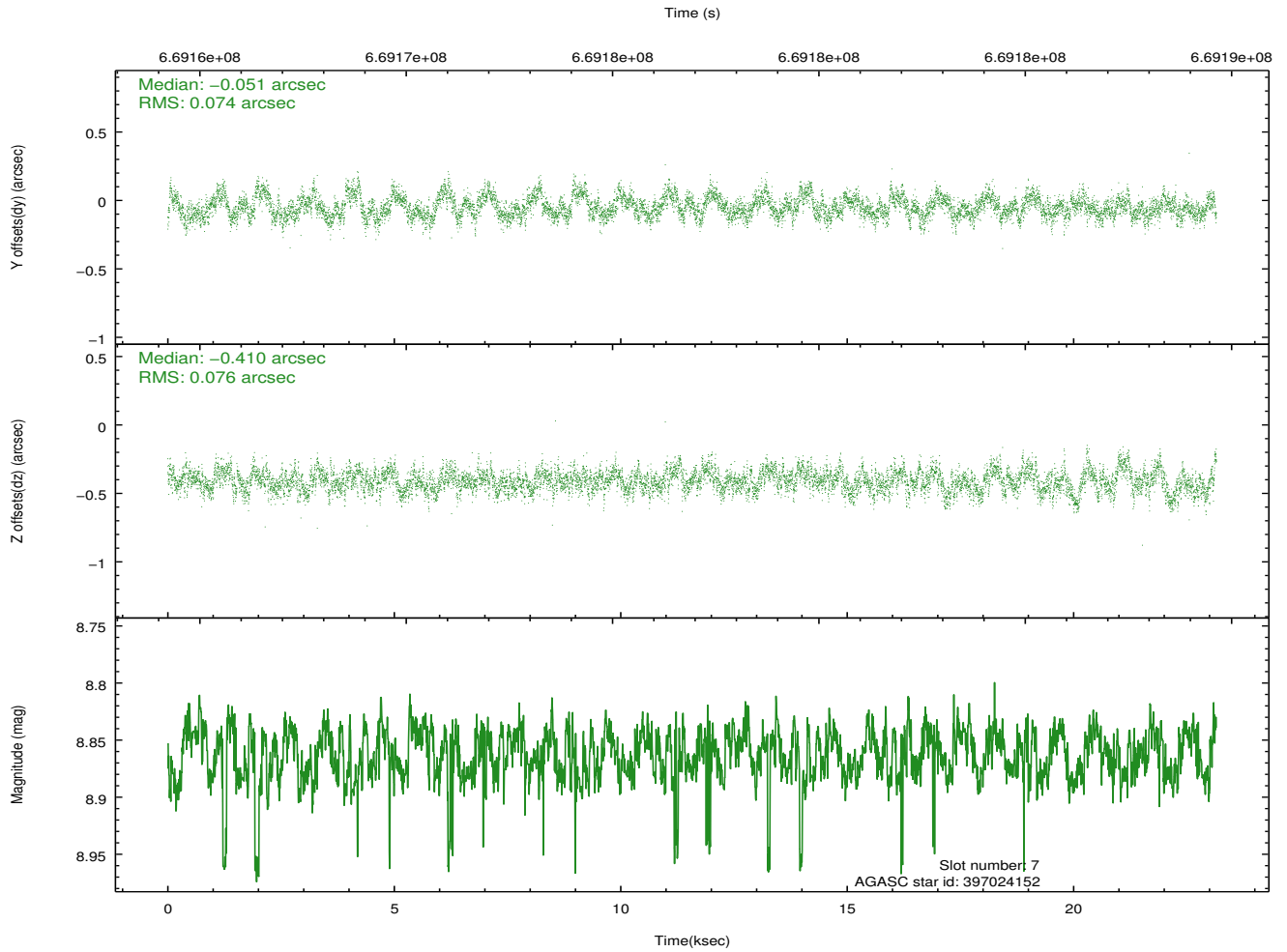
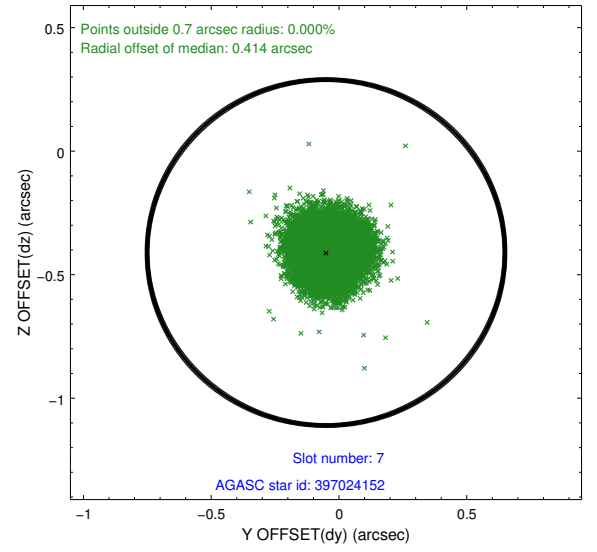
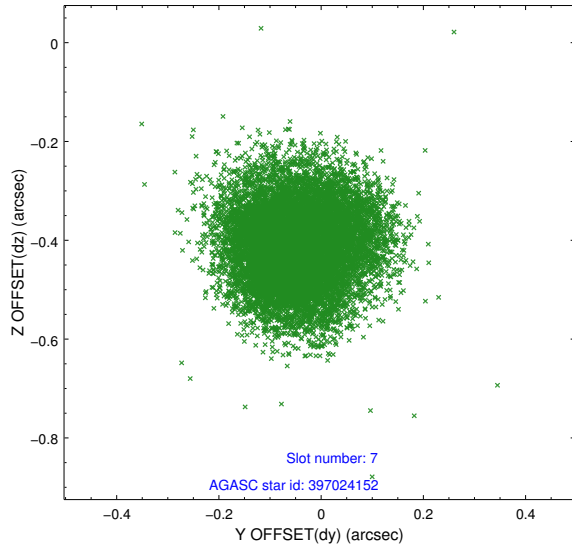
2.4.3 Slot 5



2.4.4 Slot 6

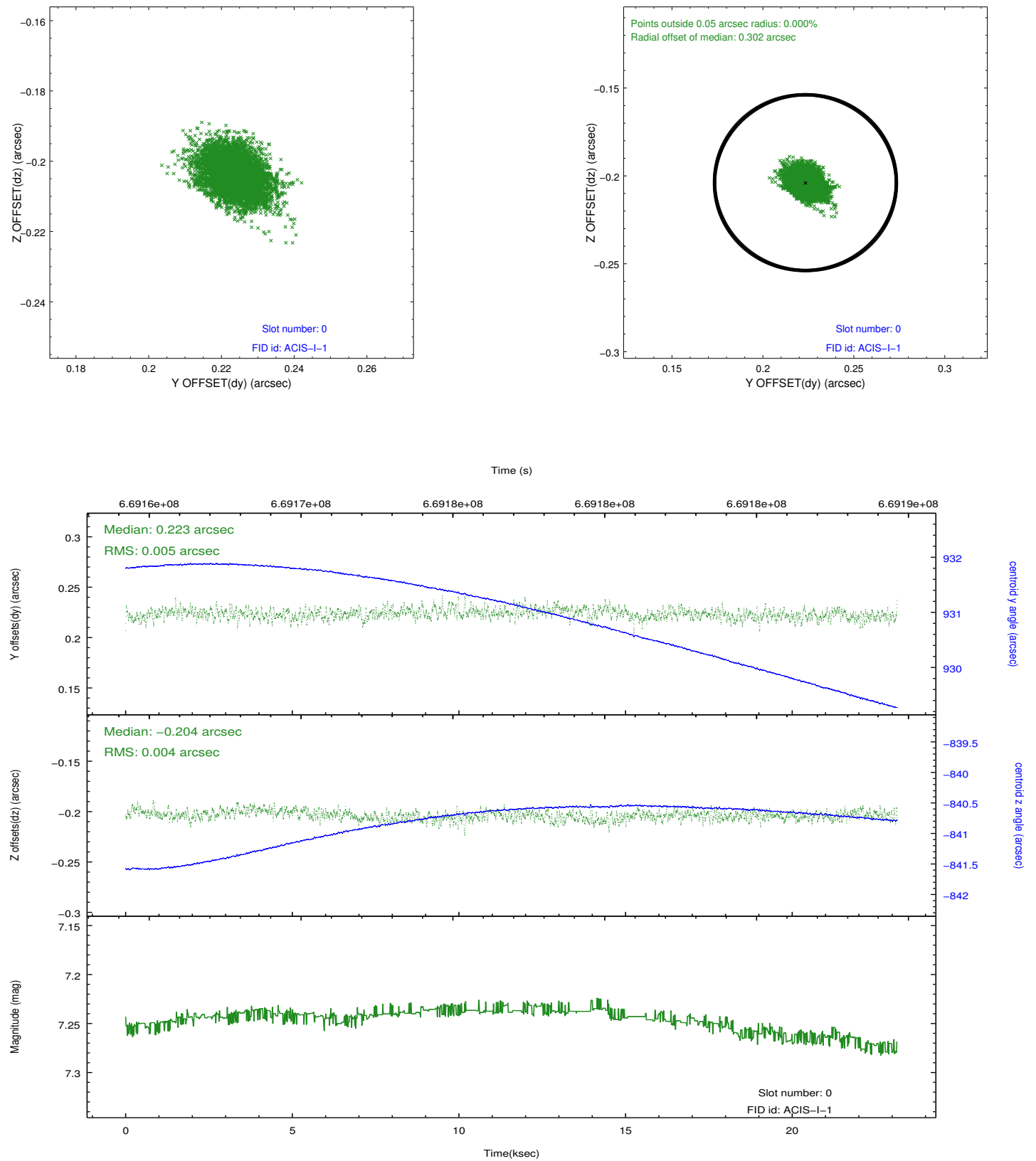


2.4.5 Slot 7

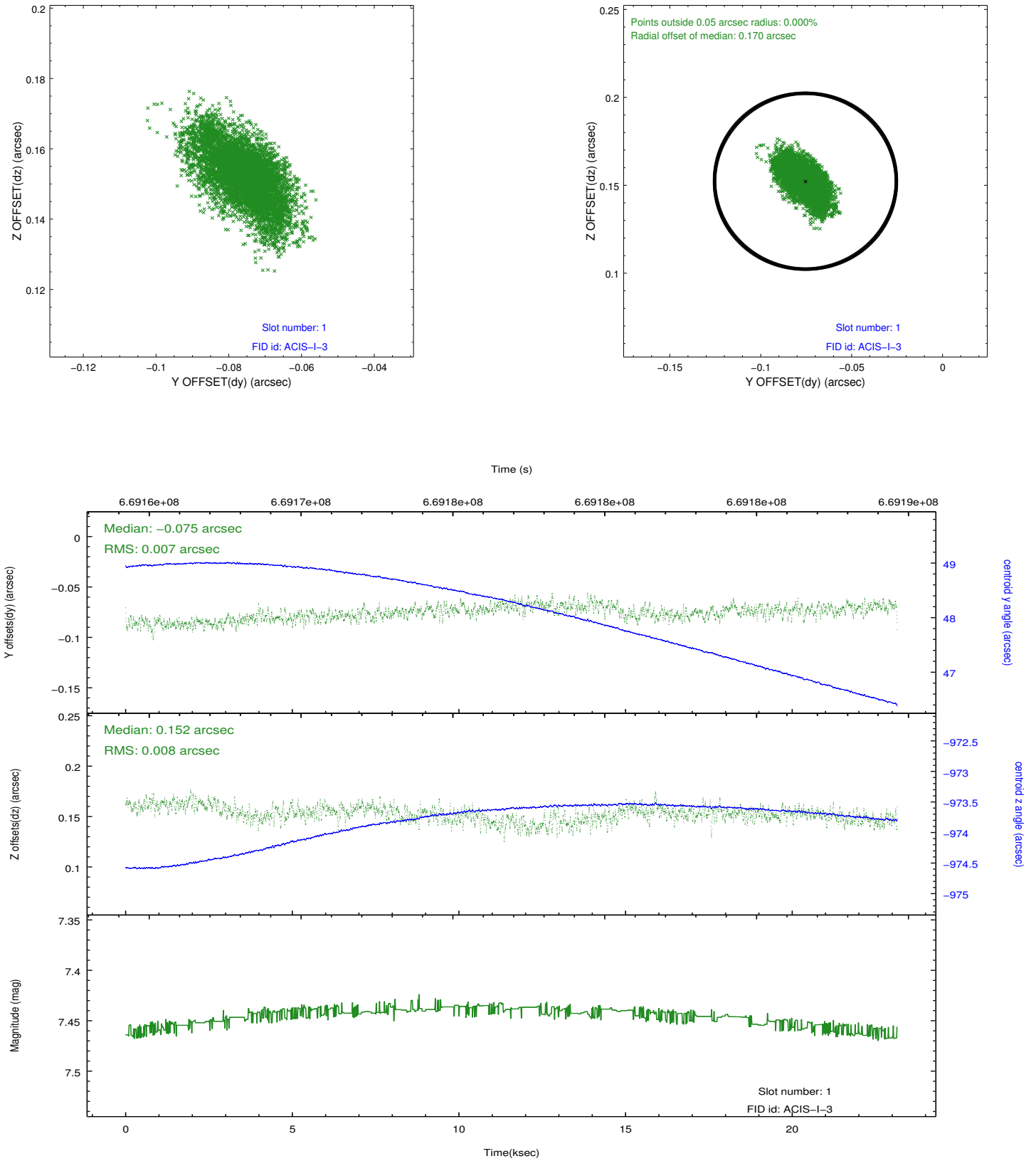


2.5 FID Slots

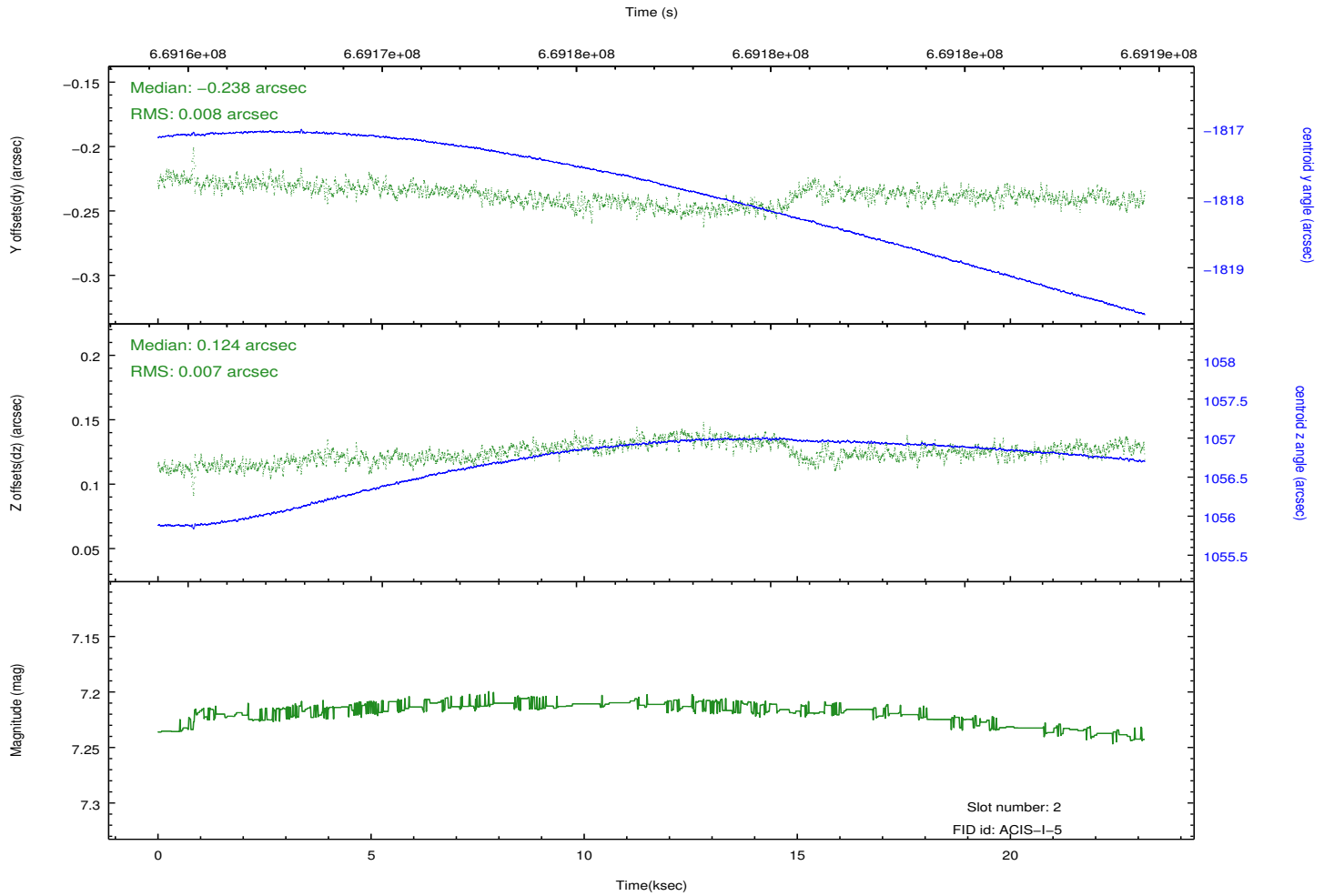
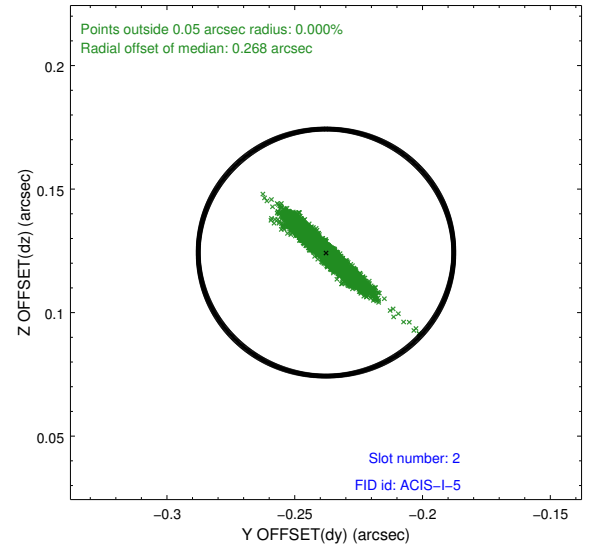
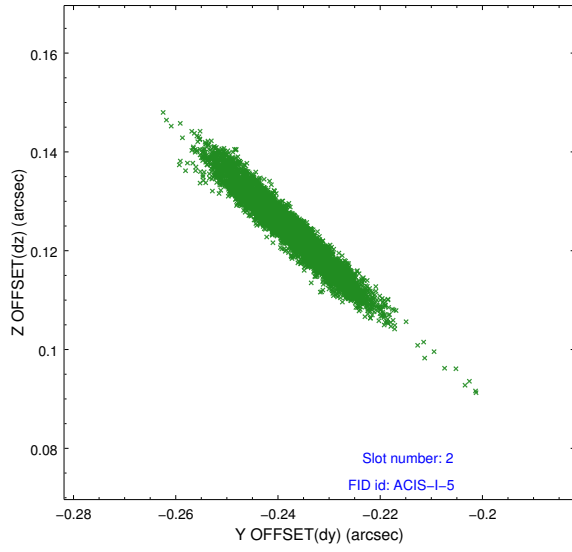
2.5.1 Slot 0



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)	2019.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.054659127235

A.2 Comments

One optional chip was dropped.