

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22179 - L2 Version 1
Chandra X-Ray Center

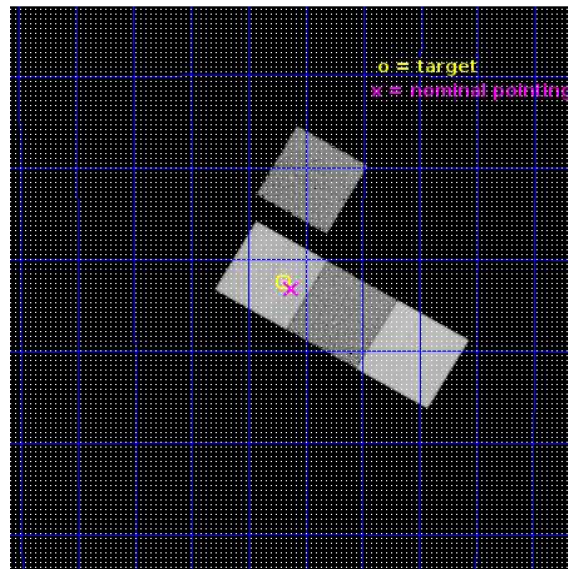
L2 Processing Date : Apr 18 2019

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1 Front

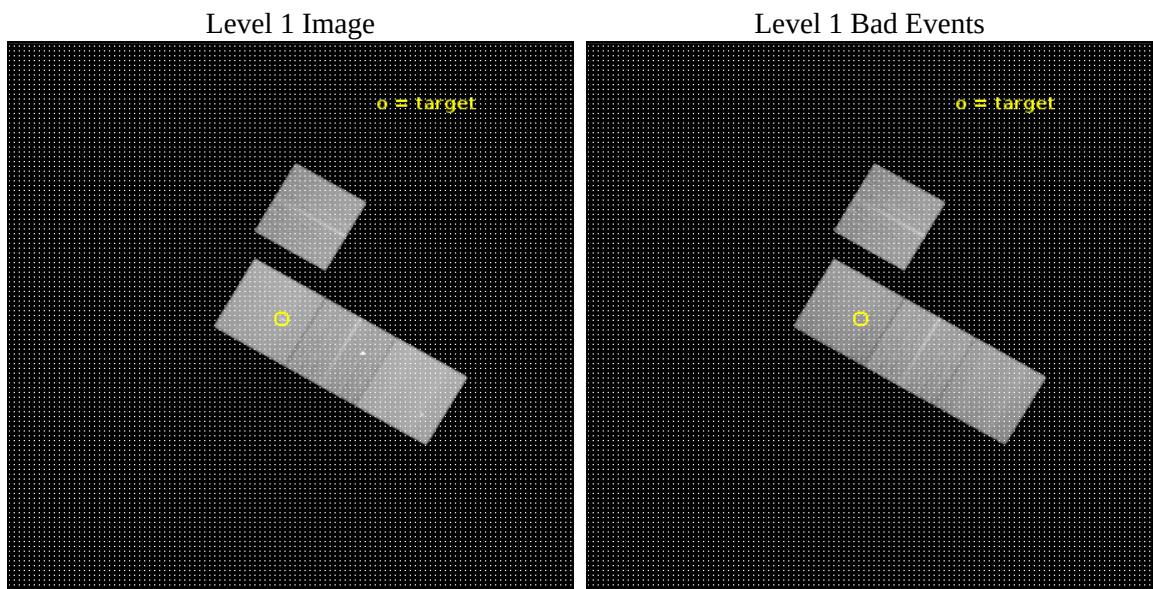
seq_num	601407	Sequence number
obs_id	22179	Observation id
title	What is sourcing gas motions in the core of NGC 1316?	Proposal tit
observer	Steve Allen	Principal investigator
object	NGC 1316	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.674167	Observer's specified target RA [deg]
dec_targ	-37.208333	Observer's specified target Dec [deg]
ra_nom	50.656188694856	Nominal RA [deg]
dec_nom	-37.22071404383	Nominal Dec [deg]
roll_nom	210.14576626627	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39465.727178574	Sum of GTIs [s]
livetime	38950.07839874	Livetime [s]
ontime3	39465.604058623	Sum of GTIs [s]
ontime5	39465.68613863	Sum of GTIs [s]
ontime6	39465.645098567	Sum of GTIs [s]
ontime7	39465.727178574	Sum of GTIs [s]
l2events	454922	Number of level 2 events



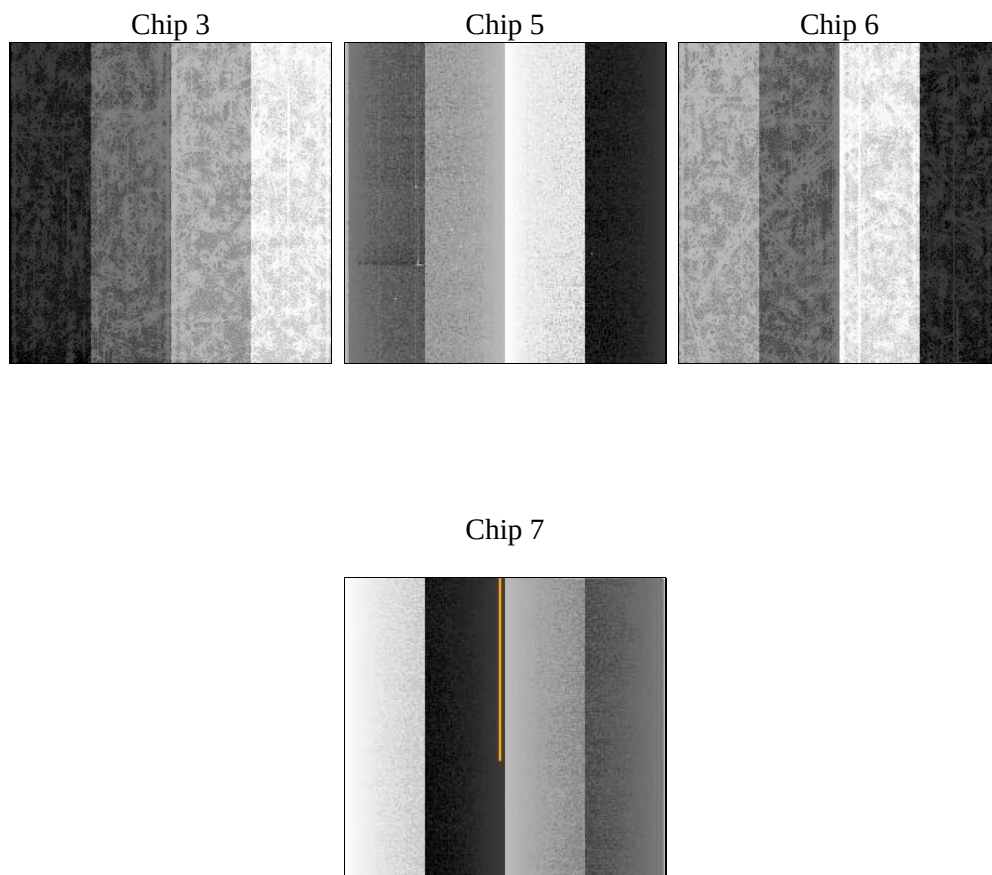
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39401.540000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	39465.727178574	Sum of GTIs [s]
caldsver	4.8.2	 	ontime3	39465.604058623	Sum of GTIs [s]
date	2019-04-18T13:42:32	Date and time of file creation	ontime5	39465.68613863	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	39465.645098567	Sum of GTIs [s]
			ontime7	39465.727178574	Sum of GTIs [s]
			l1events	1485727	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	289026	479035	323603	394063
rejected events	256628	249630	277183	218231
rejected %	88%	52%	85%	55%

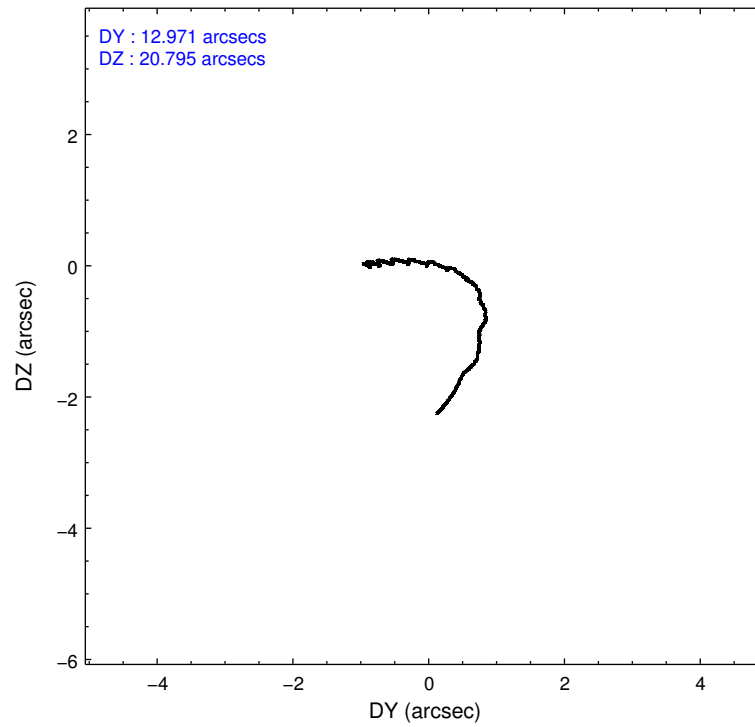
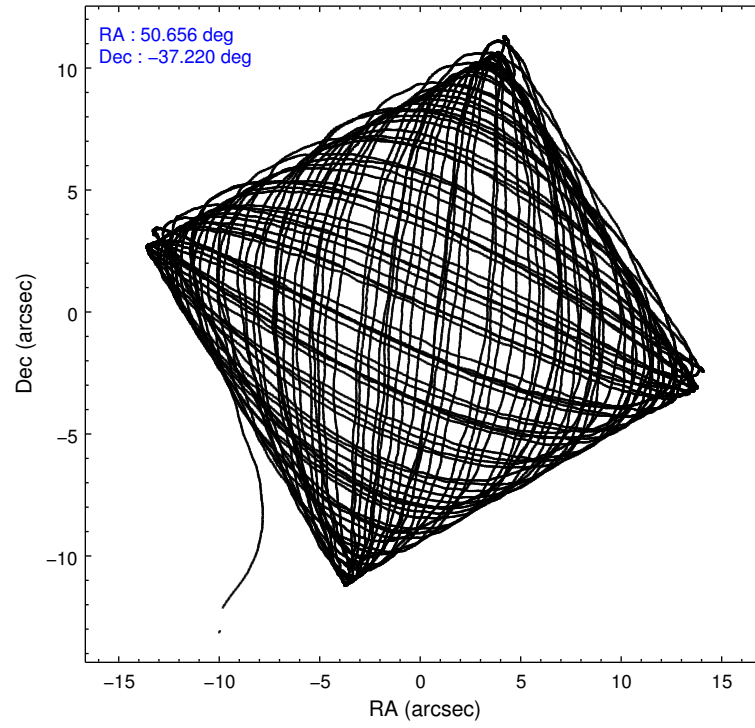
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	12640	13373	23264	16293
	4%	2%	7%	4%
grade 1 events	163	1135	288	565
	0%	0%	0%	0%
grade 2 events	6890	73121	8326	37899
	2%	15%	2%	9%
grade 3 events	3269	7195	3242	14095
	1%	1%	1%	3%
grade 4 events	3154	7007	3354	13971
	1%	1%	1%	3%
grade 5 events	13988	33027	14041	38627
	4%	6%	4%	9%
grade 6 events	6450	128723	8241	93585
	2%	26%	2%	23%
grade 7 events	242472	215454	262847	179028
	83%	44%	81%	45%

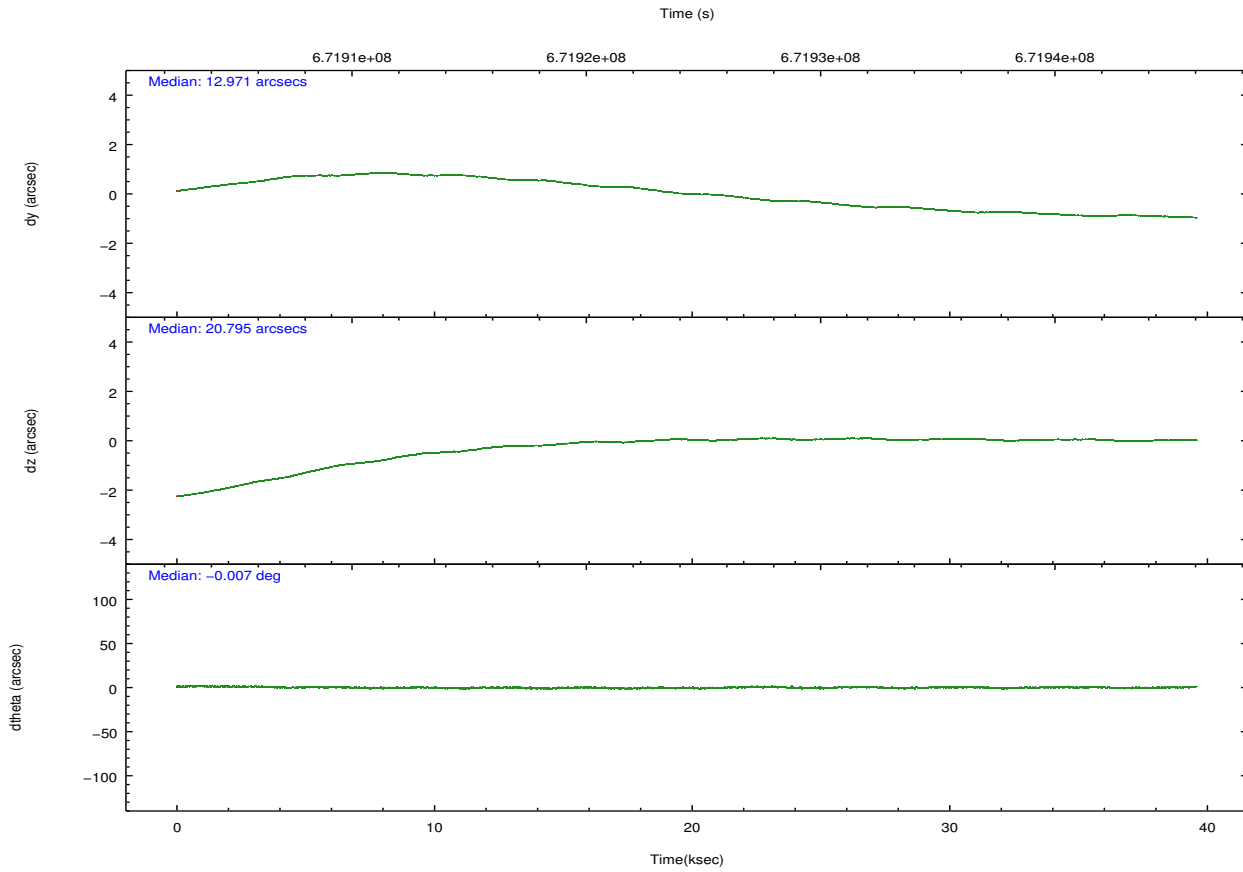
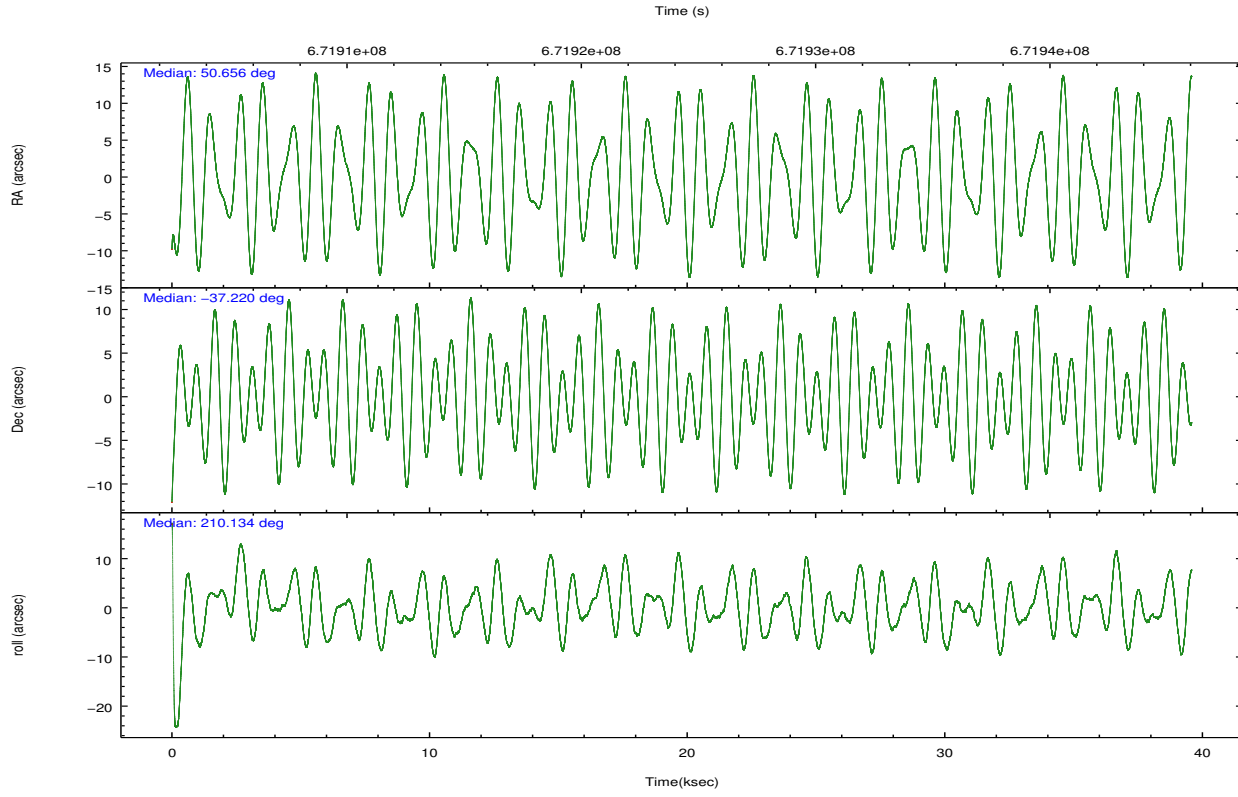
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3567	ACIS-3567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	50.672958	50.65618869485573
[deg] Pointing Dec	-37.196730	-37.22071404382954
[deg] Pointing Roll	209.999270	210.145766266265
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	671904689.184000	671903796.5255001
Observation start date	2019-04-17T16:10:20	2019-04-17T15:56:36
[s] Observation end time (MET)	671944091.184000	671945208.57798
Observation end date	2019-04-18T03:07:02	2019-04-18T03:26:48
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



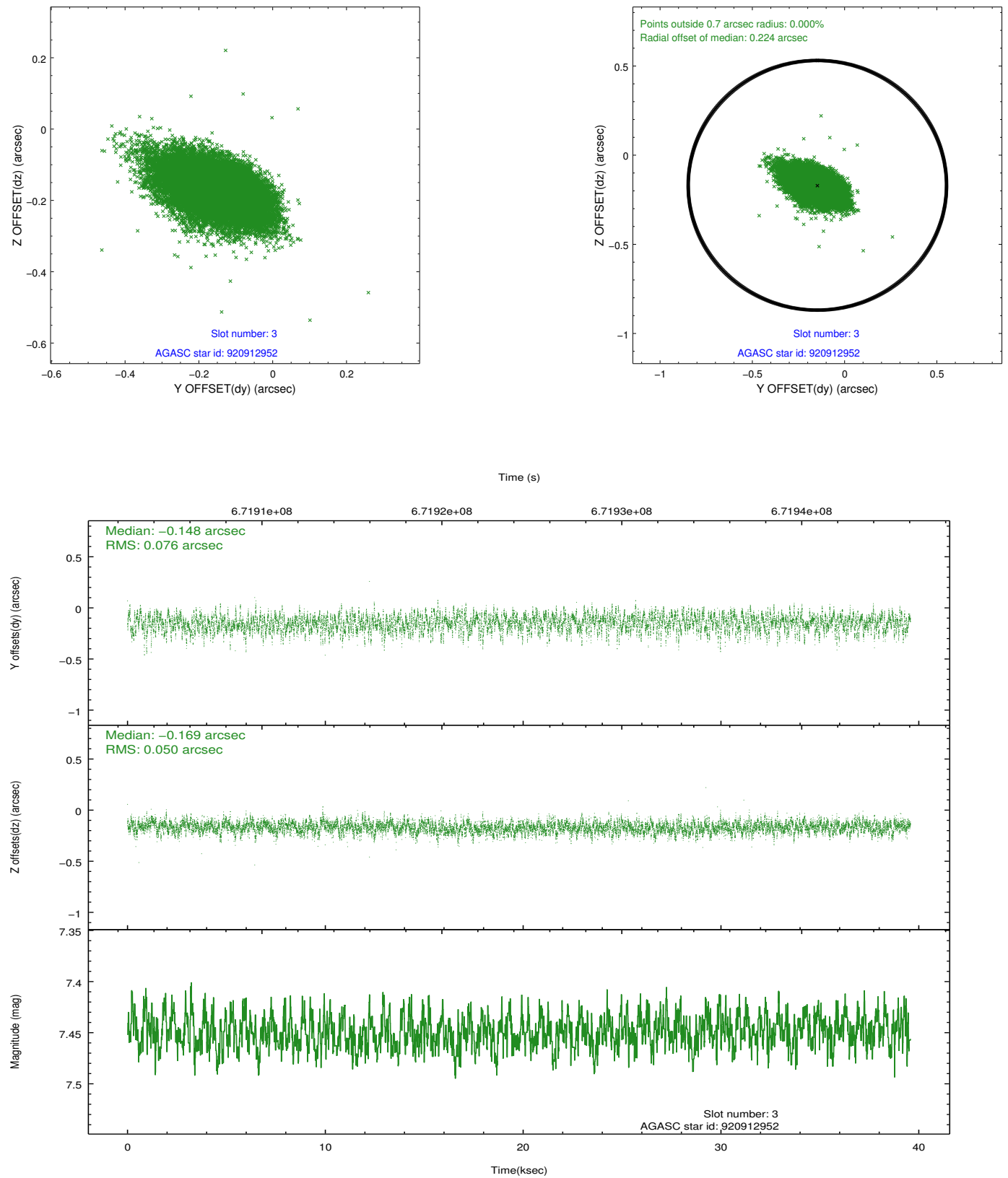


Slot Statistics

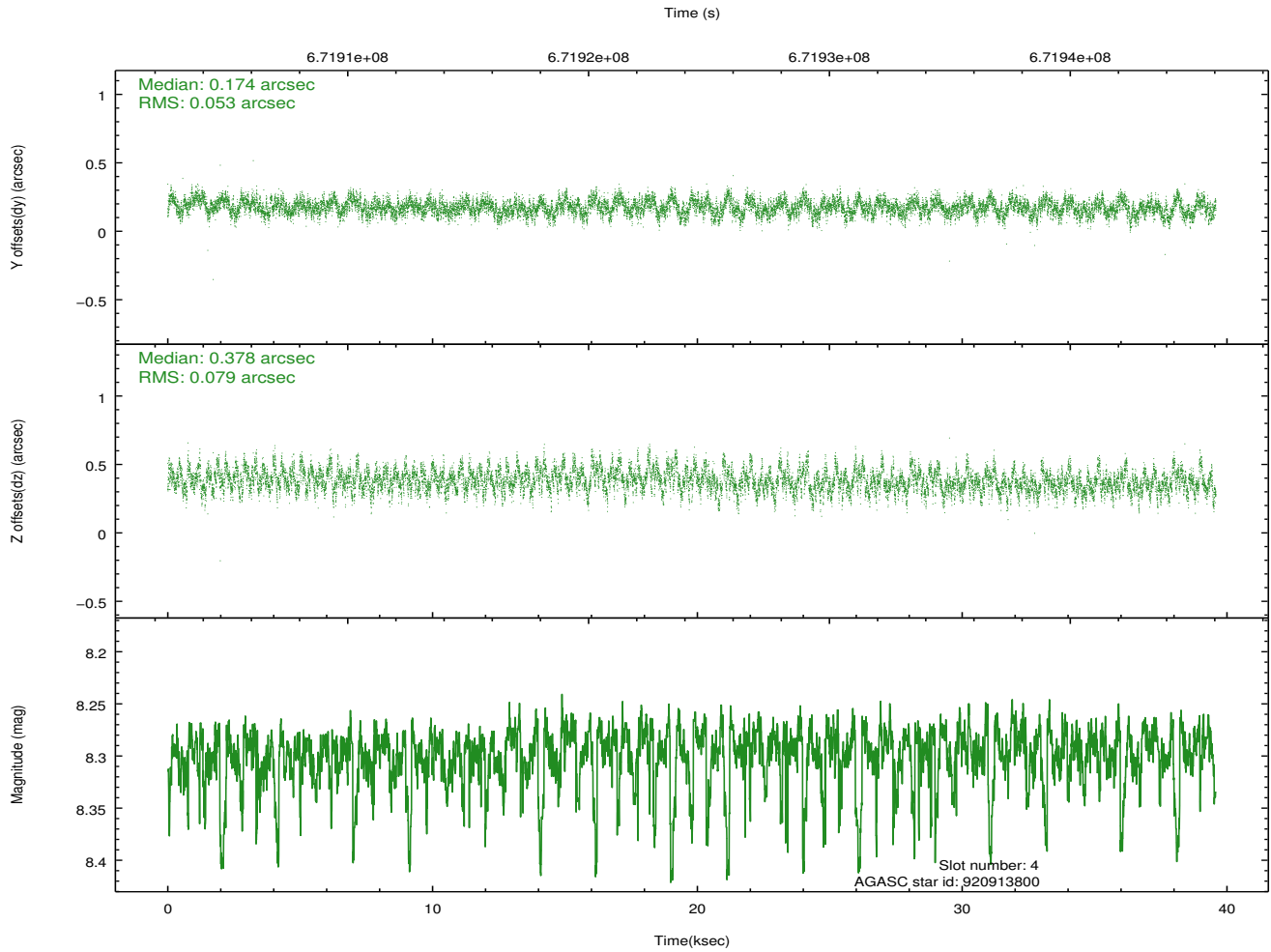
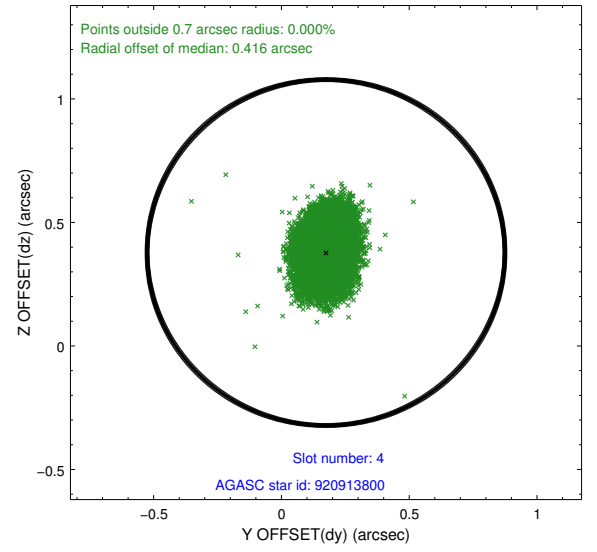
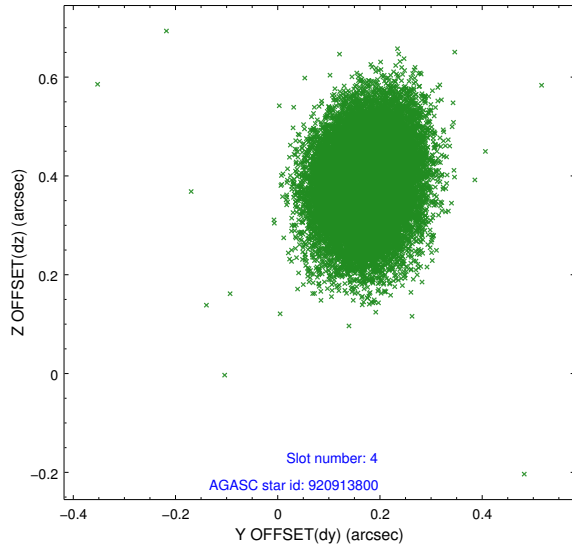
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	9654	1.000	-0.280	-0.147	0.044	0.073	0.000000	0.000000	-766.05	-1742
1	FID		ACIS-S-4	7.18	9655	1.000	0.709	0.172	0.064	0.075	0.000000	0.000000	2148.11	166
2	FID		ACIS-S-5	7.16	9655	1.000	-0.465	-0.016	0.073	0.090	0.000000	0.000000	-1819.14	160
3	GUIDE	used	920912952	7.45	19302	1.000	-0.148	-0.169	0.094	0.163	50.997738	-37.170324	-852.78	385
4	GUIDE	used	920913800	8.30	19301	1.000	0.174	0.378	0.101	0.166	50.699964	-36.577710	-1181.70	-1889
5	GUIDE	used	920916000	8.38	19297	1.000	-0.063	-0.036	0.115	0.192	50.151900	-36.775522	545.86	-2059
6	GUIDE	used	921043784	7.55	19303	1.000	0.040	0.017	0.098	0.159	51.303384	-37.152691	-1643.08	772
7	GUIDE	used	921043944	8.65	19284	1.000	0.004	-0.192	0.128	0.206	51.008576	-37.283287	-675.88	752

2.4 Star Slots

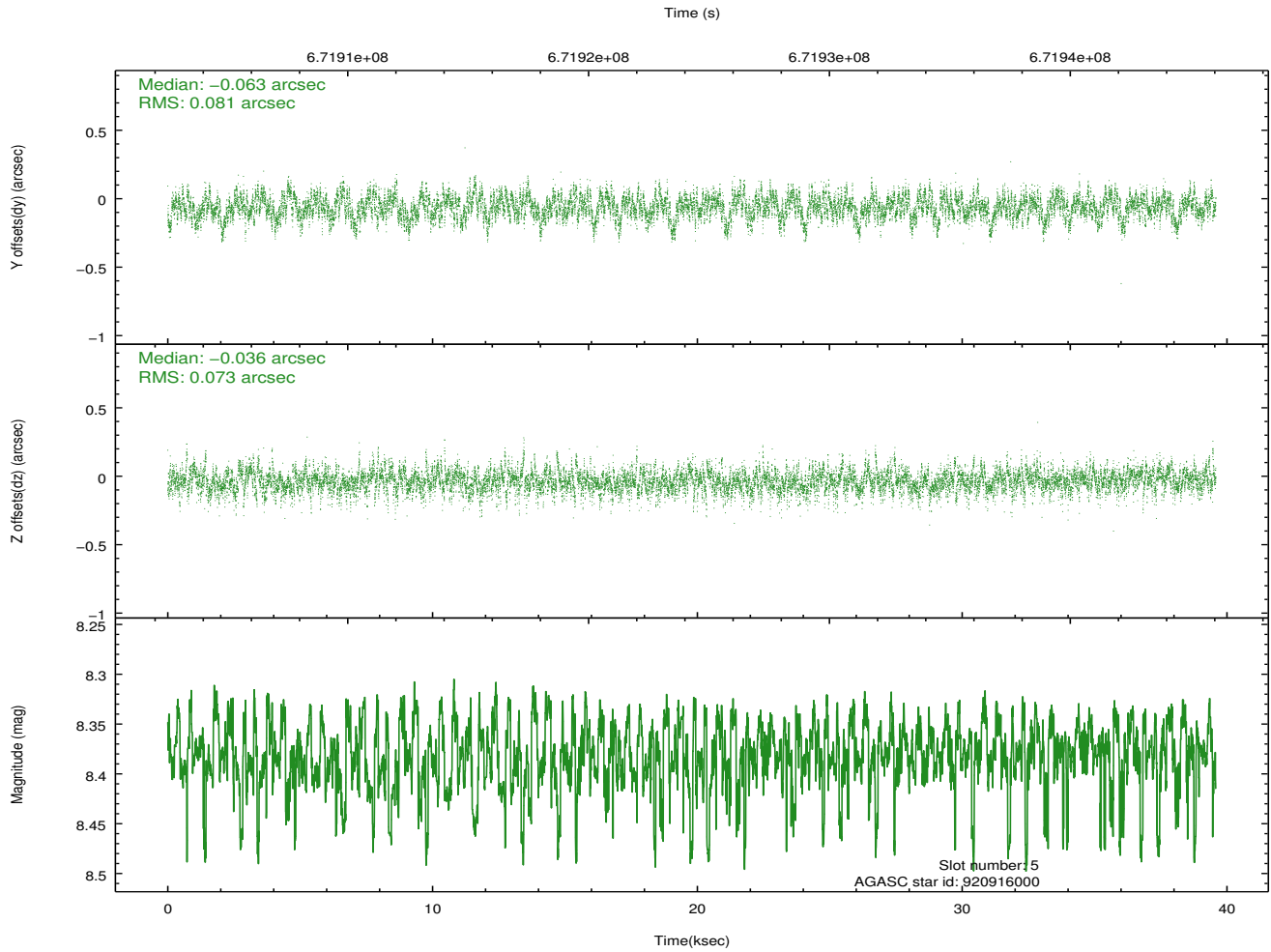
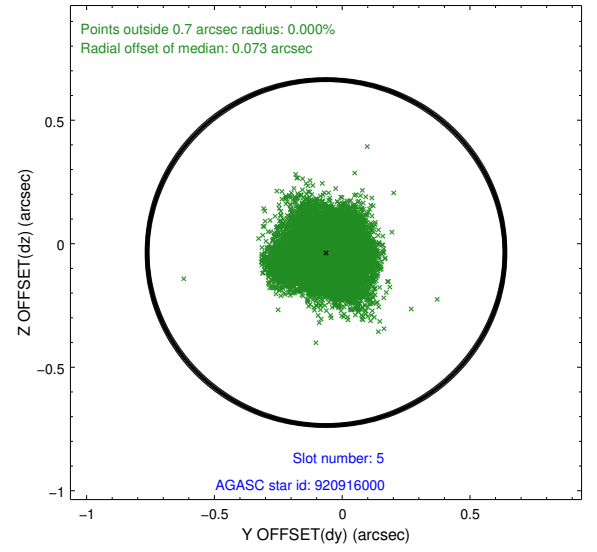
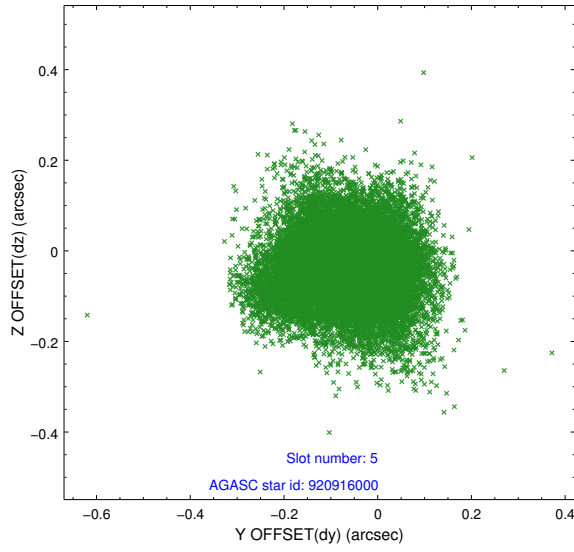
2.4.1 Slot 3



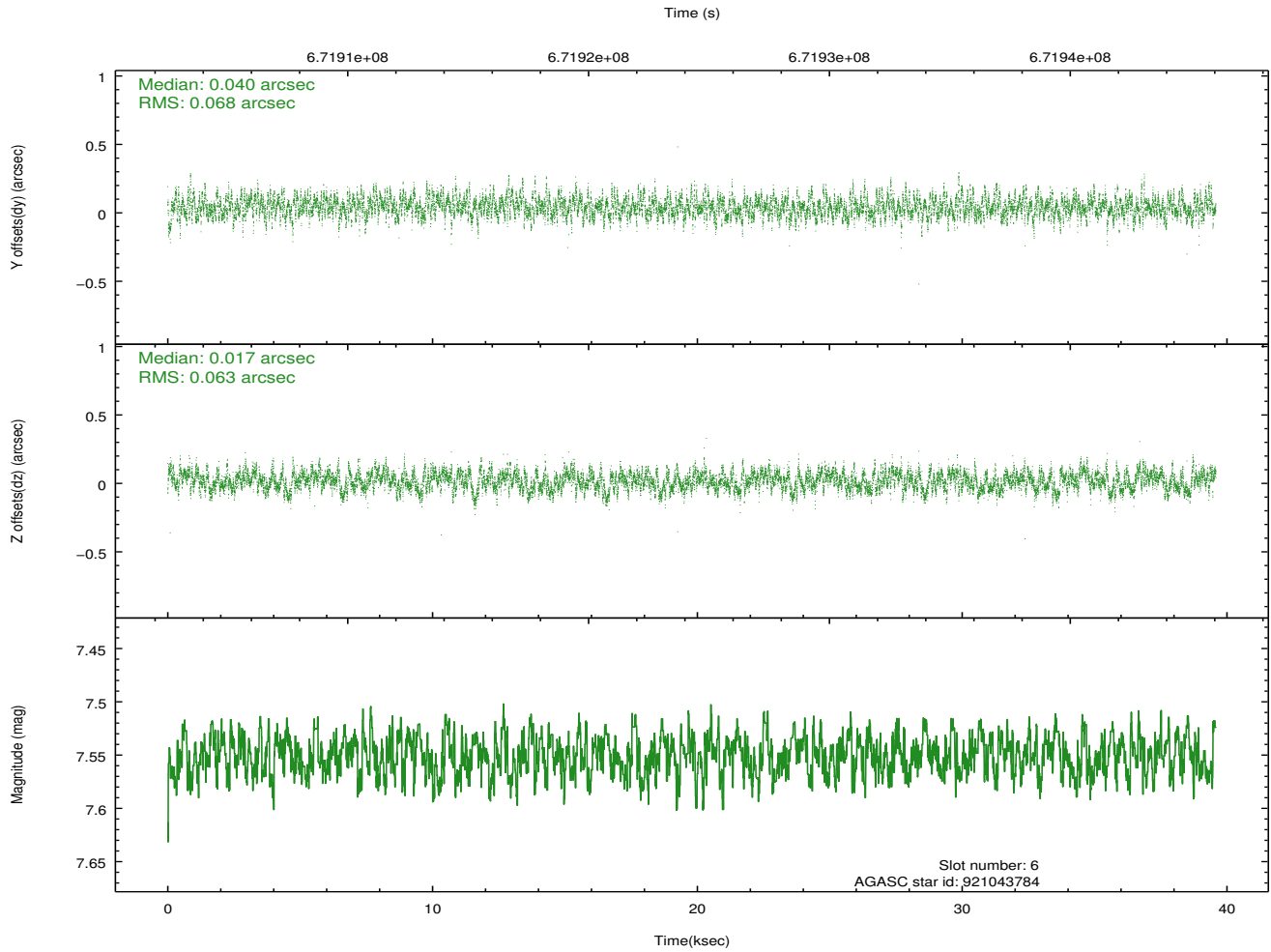
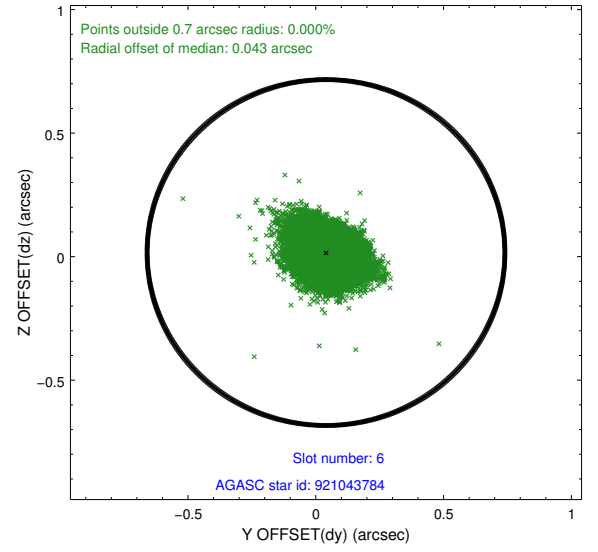
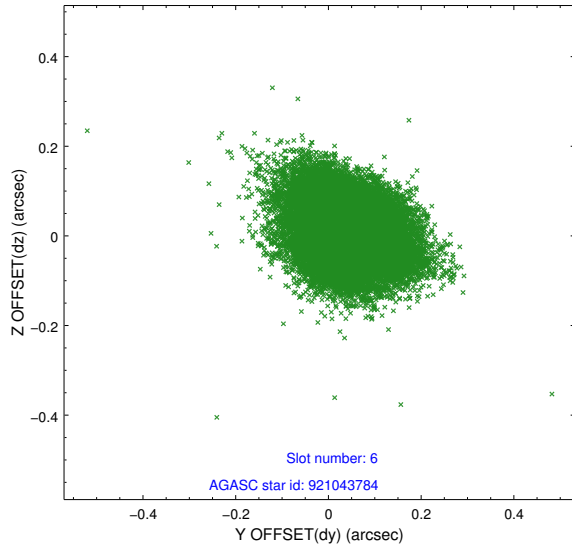
2.4.2 Slot 4



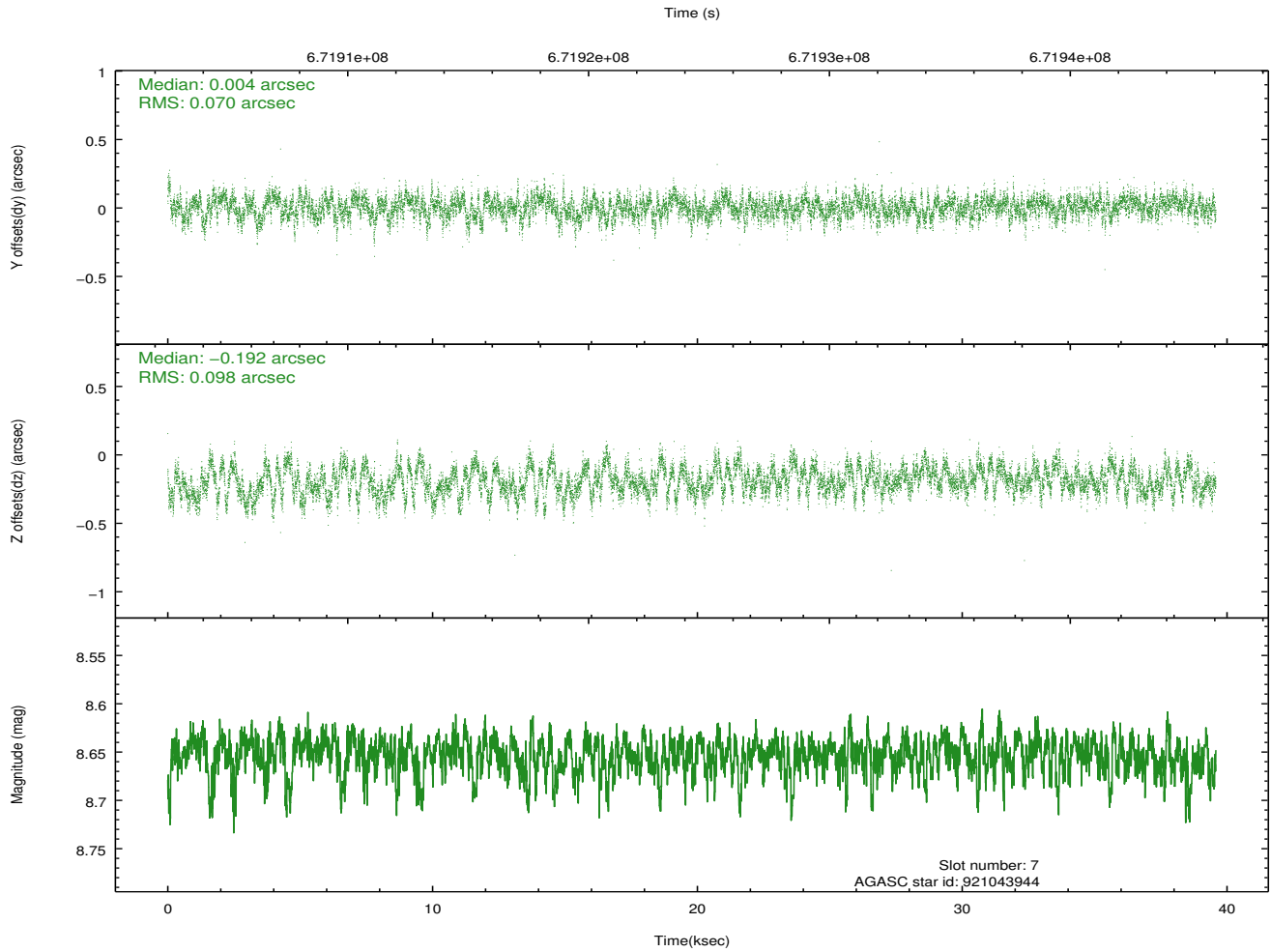
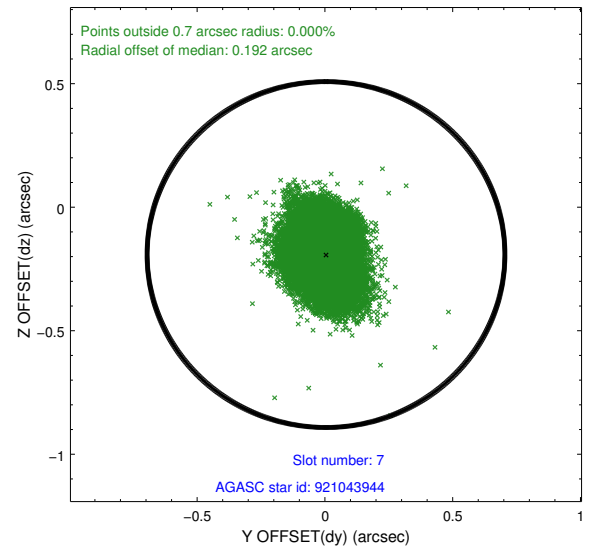
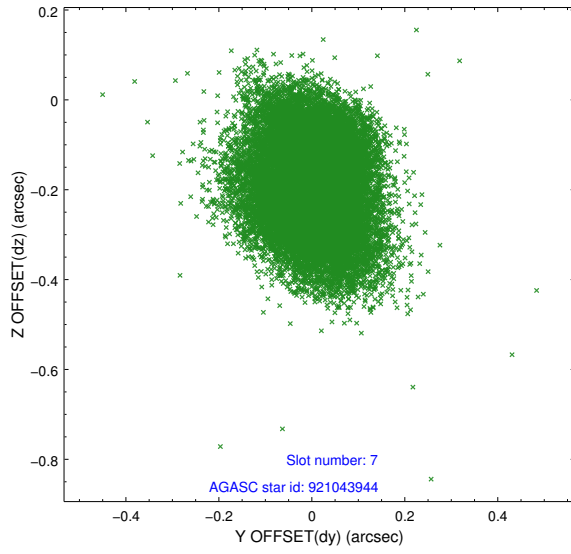
2.4.3 Slot 5



2.4.4 Slot 6

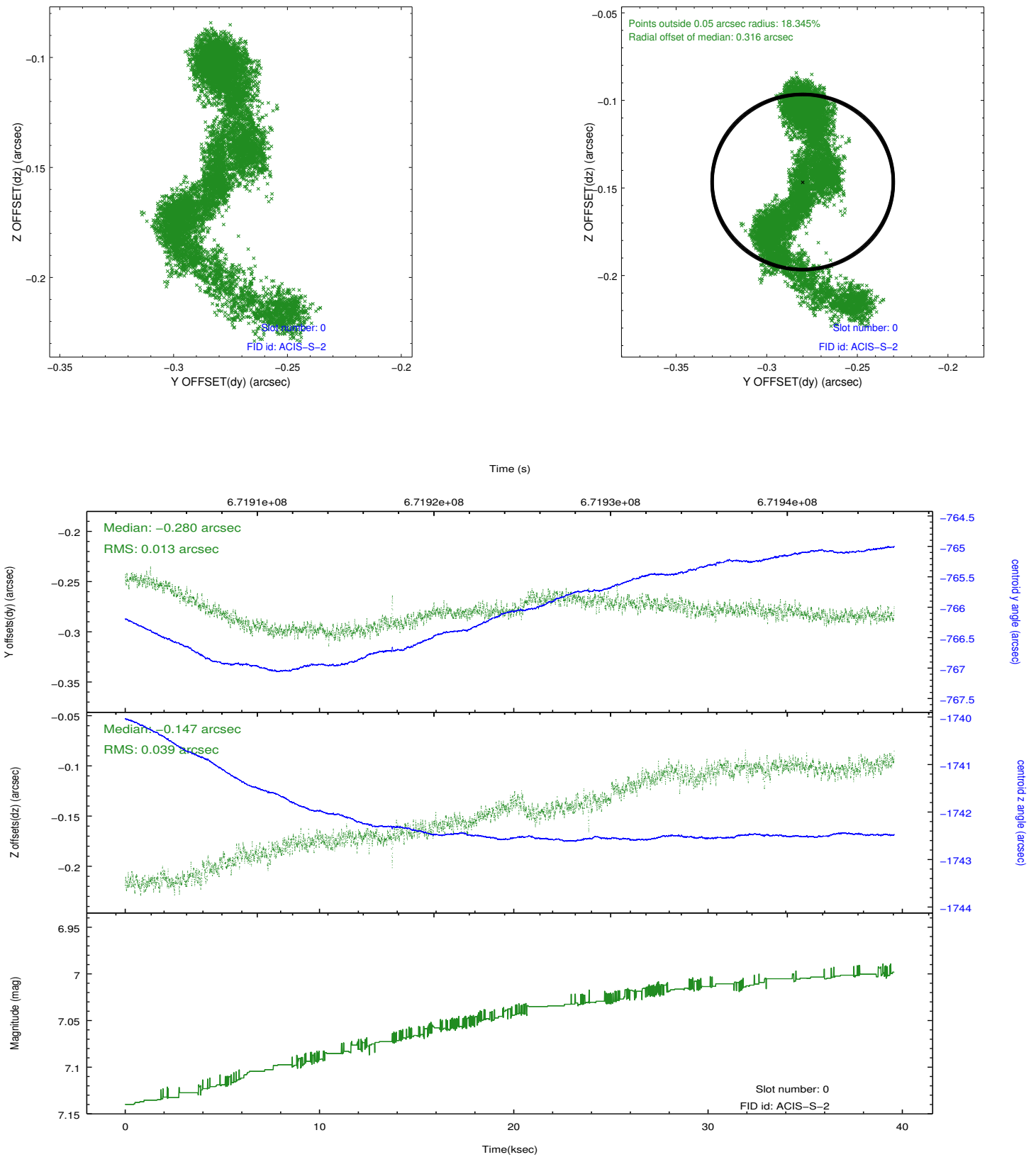


2.4.5 Slot 7

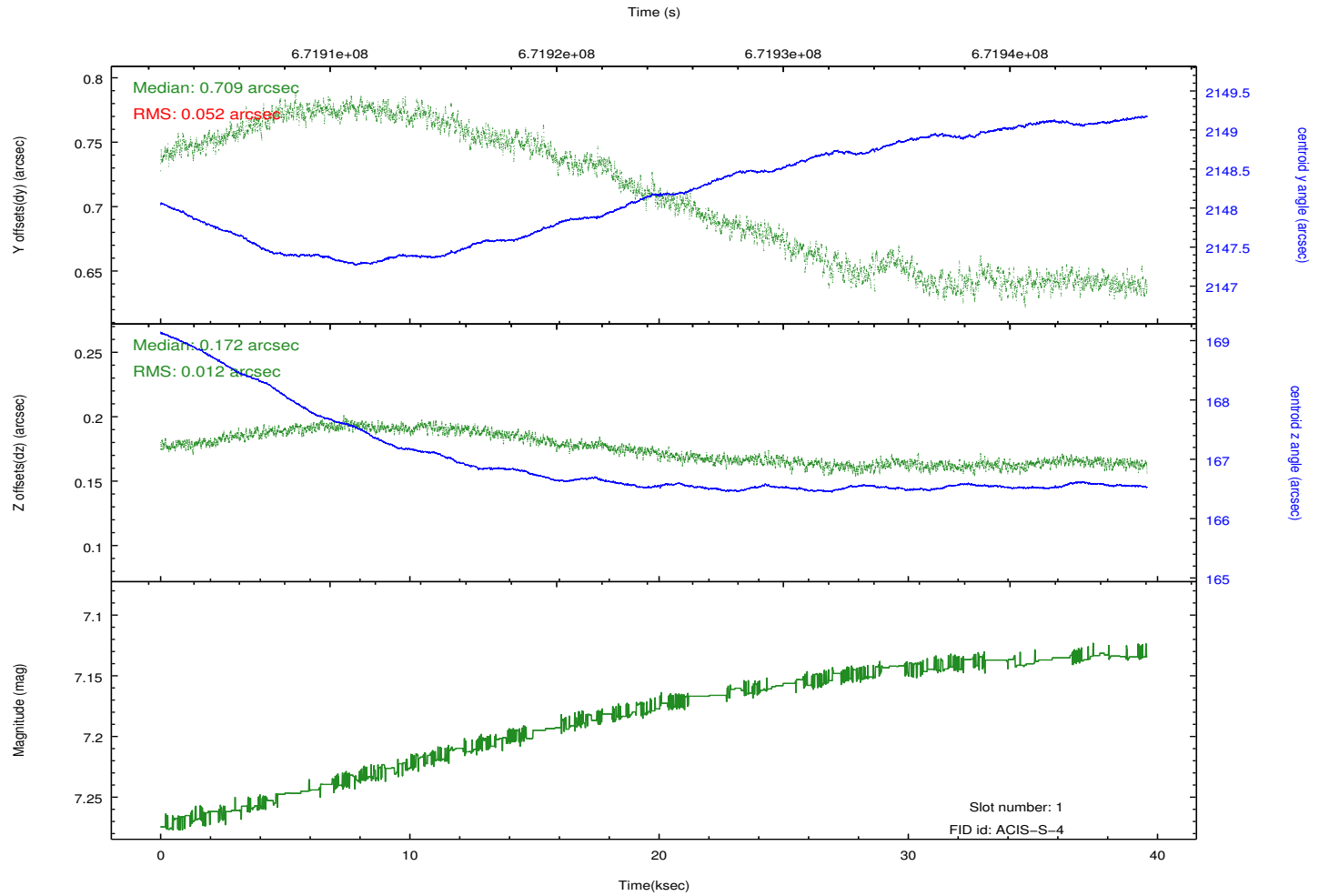
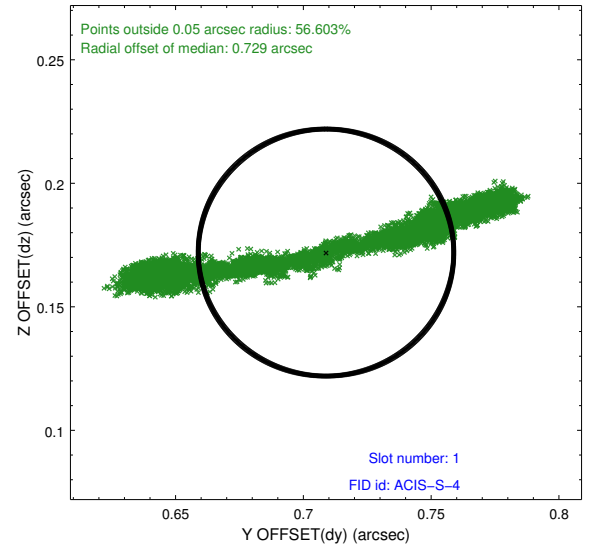
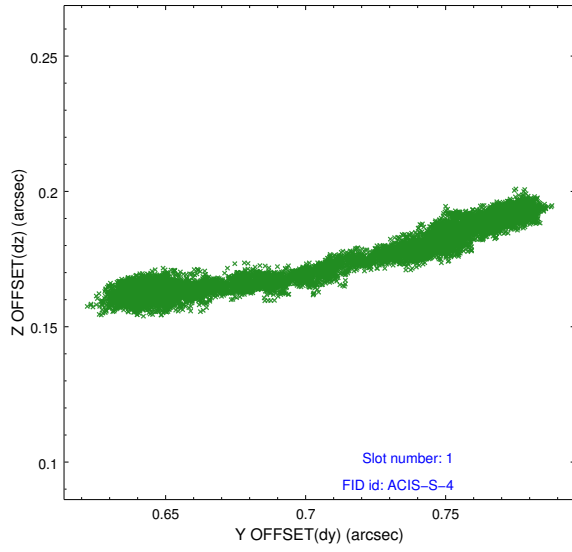


2.5 FID Slots

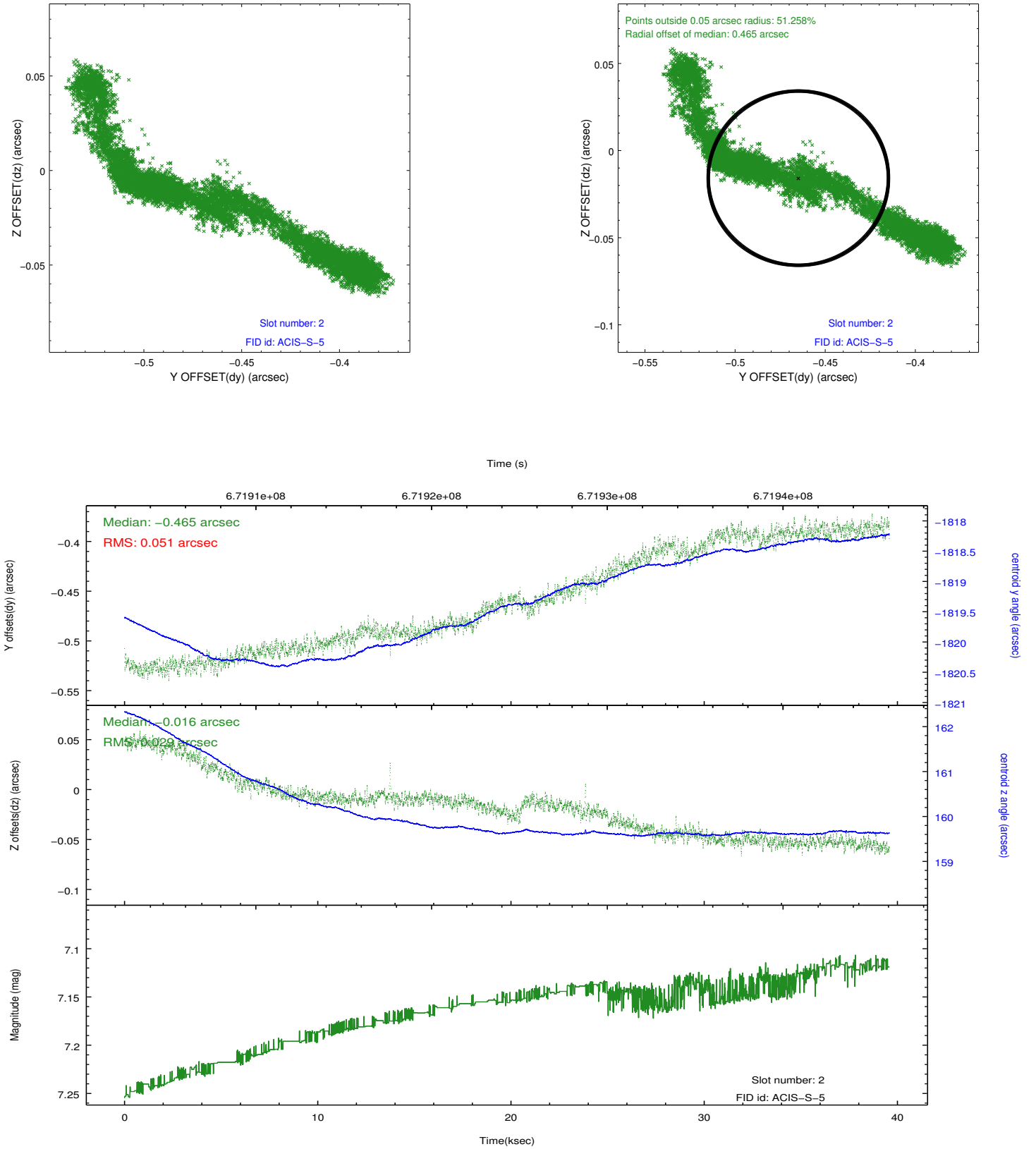
2.5.1 Slot 0



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)	2019.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.465727178574

A.2 Comments

One optional chip was dropped.