

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21249 - L2 Version 1
Chandra X-Ray Center

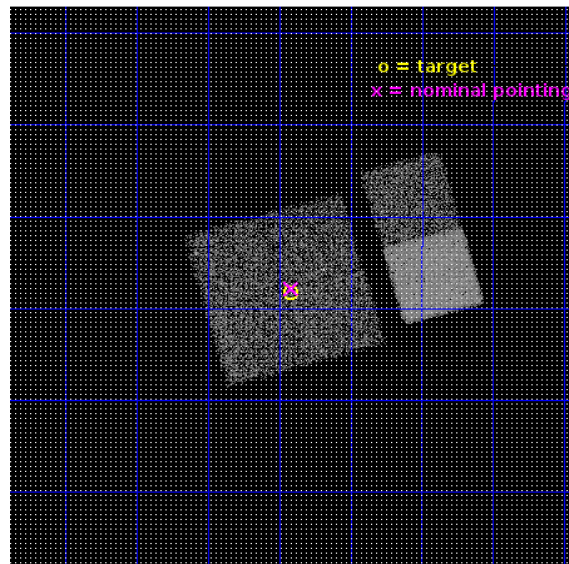
L2 Processing Date : Mar 5 2019

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

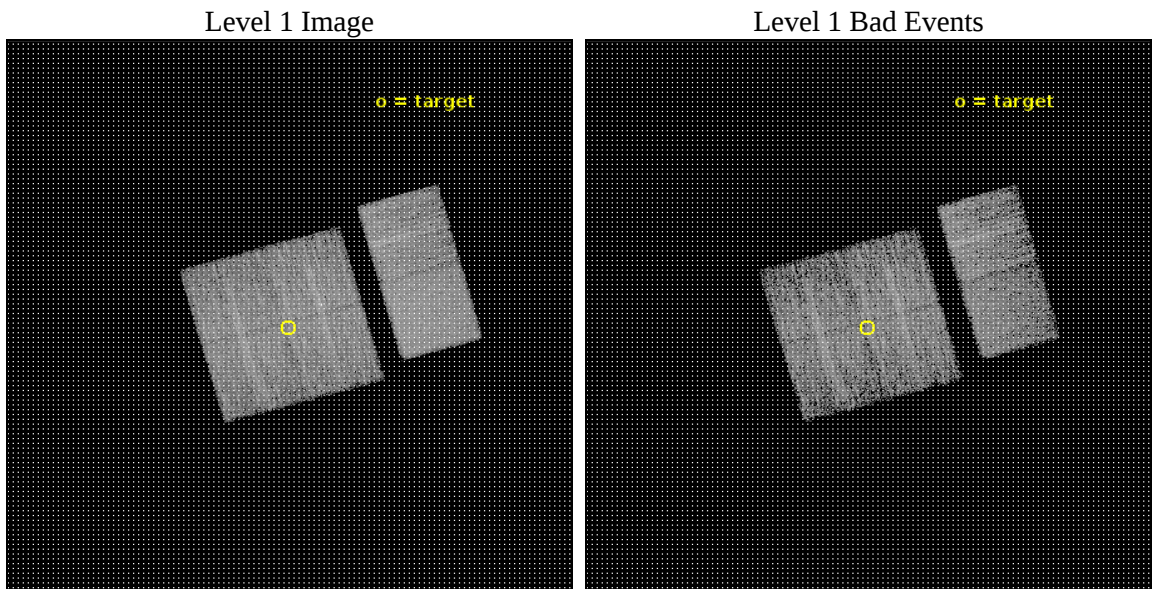
seq_num	402081	Sequence number
obs_id	21249	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J18434-0508	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.855	Observer's specified target RA [deg]
dec_targ	-5.138	Observer's specified target Dec [deg]
ra_nom	280.85330181639	Nominal RA [deg]
dec_nom	-5.1311338901202	Nominal Dec [deg]
roll_nom	74.2085838018	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4950.4000737667	Sum of GTIs [s]
livetime	4887.7151272596	Livetime [s]
ontime0	4950.4000737667	Sum of GTIs [s]
ontime1	4950.4000737667	Sum of GTIs [s]
ontime2	4950.4000737667	Sum of GTIs [s]
ontime3	4950.4000737667	Sum of GTIs [s]
ontime6	4950.4000737667	Sum of GTIs [s]
ontime7	4950.4000737667	Sum of GTIs [s]
l2events	40955	Number of level 2 events



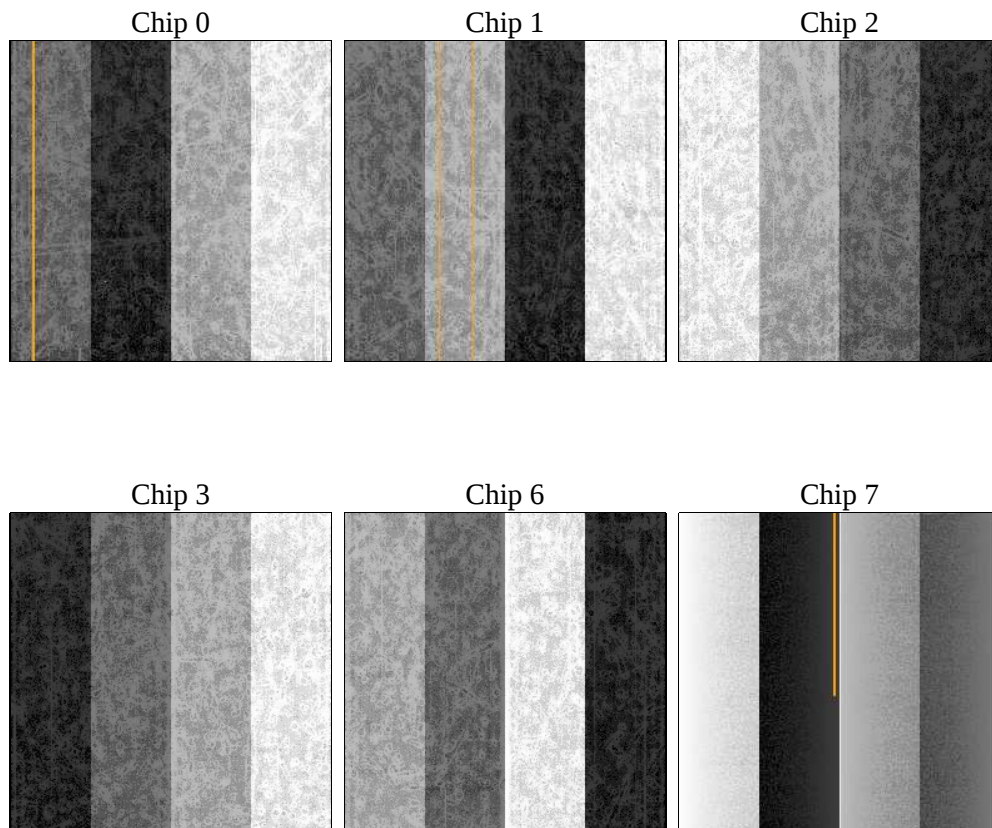
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	4950.4000737667	Sum of GTIs [s]
caldbver	4.8.2	 	ontime0	4950.4000737667	Sum of GTIs [s]
date	2019-03-05T14:17:34	Date and time of file creation	ontime1	4950.4000737667	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4950.4000737667	Sum of GTIs [s]
			ontime3	4950.4000737667	Sum of GTIs [s]
			ontime6	4950.4000737667	Sum of GTIs [s]
			ontime7	4950.4000737667	Sum of GTIs [s]
			l1events	227140	Number of level 1 events

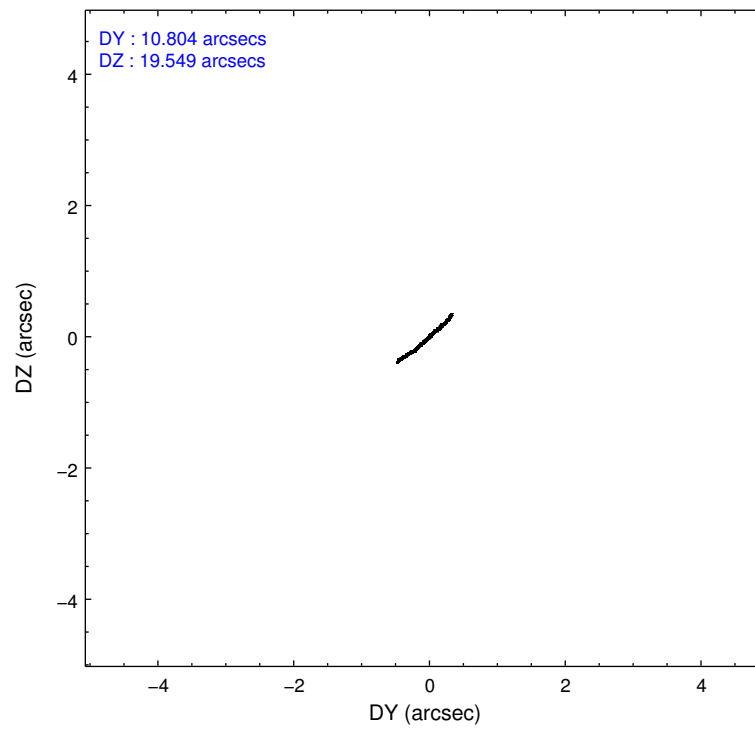
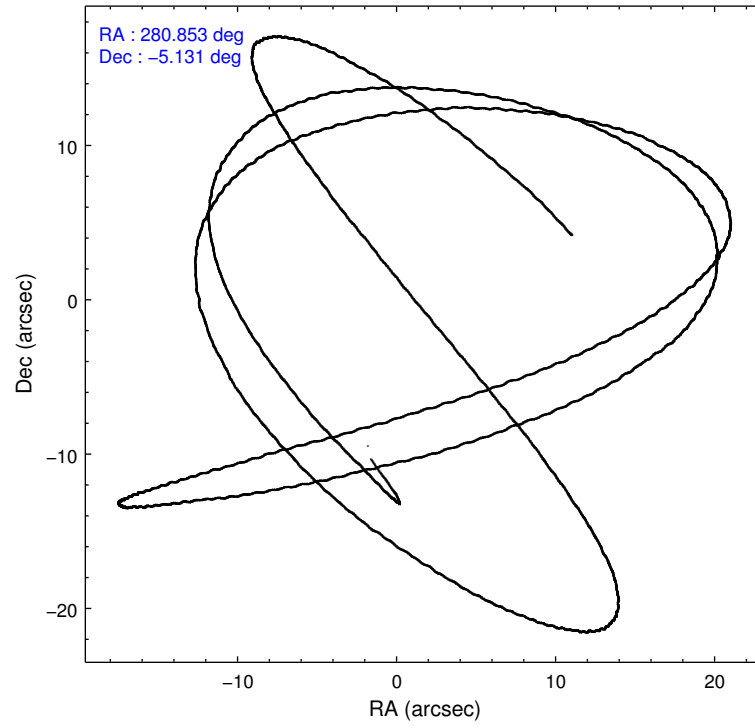
2.1.4 Events

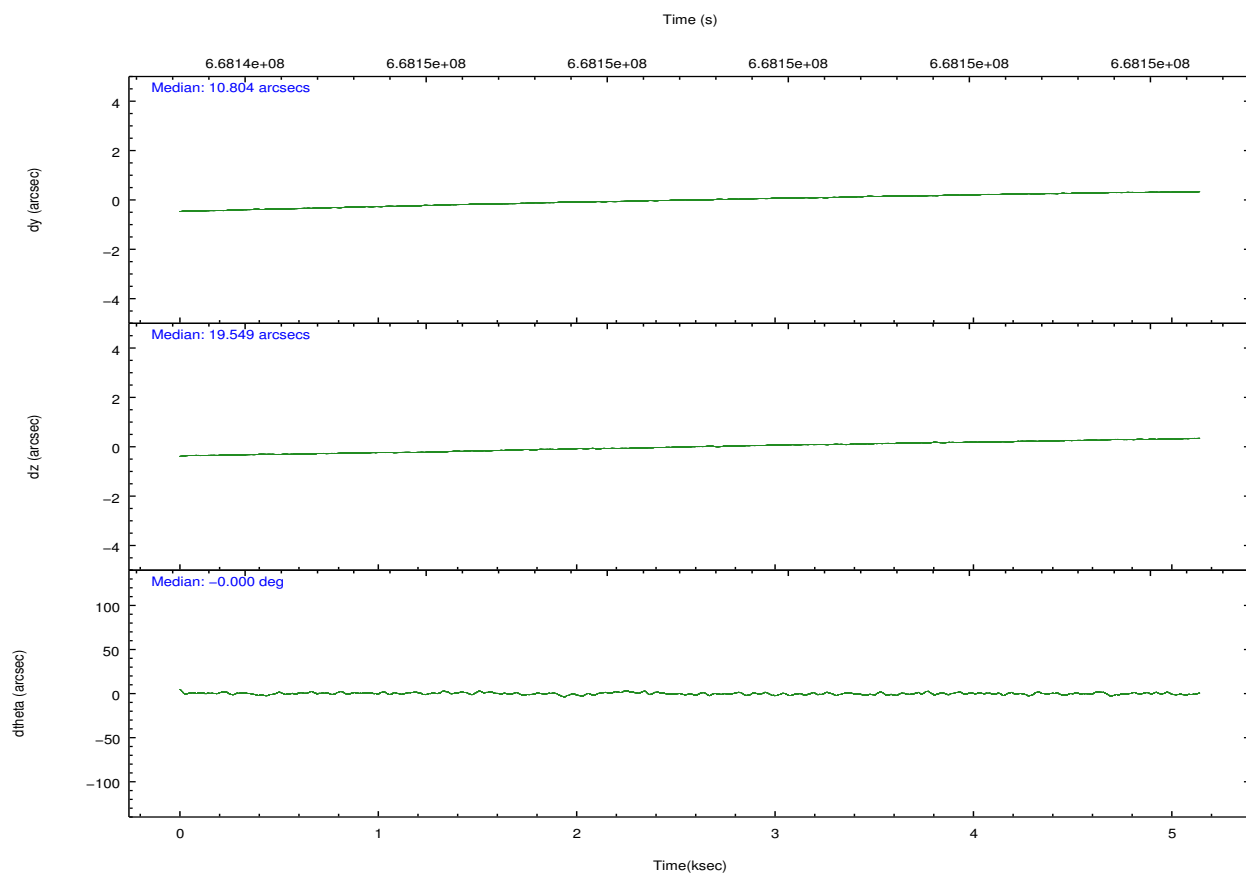
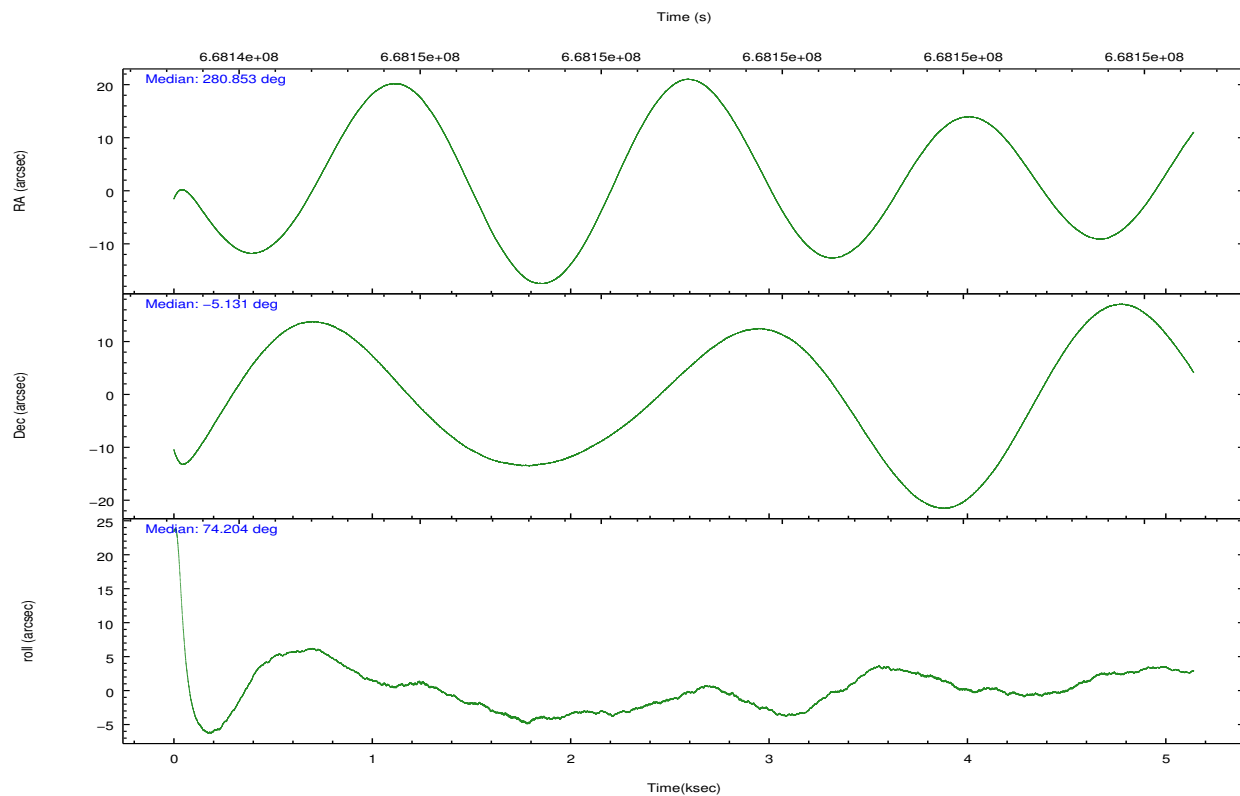
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	32942	33729	38126	34677	38439	49227	grade 0 events	1776	1832	2173	1883	1533	1916
rejected events	28267	28826	32975	30272	34040	27646		5%	5%	5%	5%	3%	3%
rejected %	85%	85%	86%	87%	88%	56%	grade 1 events	21	20	48	24	28	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	1175	1187	1174	844	988	4670
								3%	3%	3%	2%	2%	9%
							grade 3 events	456	417	472	407	420	1753
								1%	1%	1%	1%	1%	3%
							grade 4 events	412	437	473	435	391	1671
								1%	1%	1%	1%	1%	3%
							grade 5 events	1603	1636	1590	1771	1807	4776
								4%	4%	4%	5%	4%	9%
							grade 6 events	861	1032	862	840	1076	11582
								2%	3%	2%	2%	2%	23%
							grade 7 events	26638	27168	31334	28473	32196	22770
								80%	80%	82%	82%	83%	46%

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	280.860448	280.8533018163856	CCD I2 on	Y	Y
[deg] Pointing Dec	-5.158349	-5.13113389012025	CCD I3 on	Y	Y
[deg] Pointing Roll	74.000491	74.20858380179997	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)	668145025.184000	668143560.2255599	CCD S5 on	N	N
Observation start date	2019-03-05T03:49:16	2019-03-05T03:26:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	668150025.184000	668151124.72601	On-chip summing requested	N	N
Observation end date	2019-03-05T05:12:36	2019-03-05T05:32:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



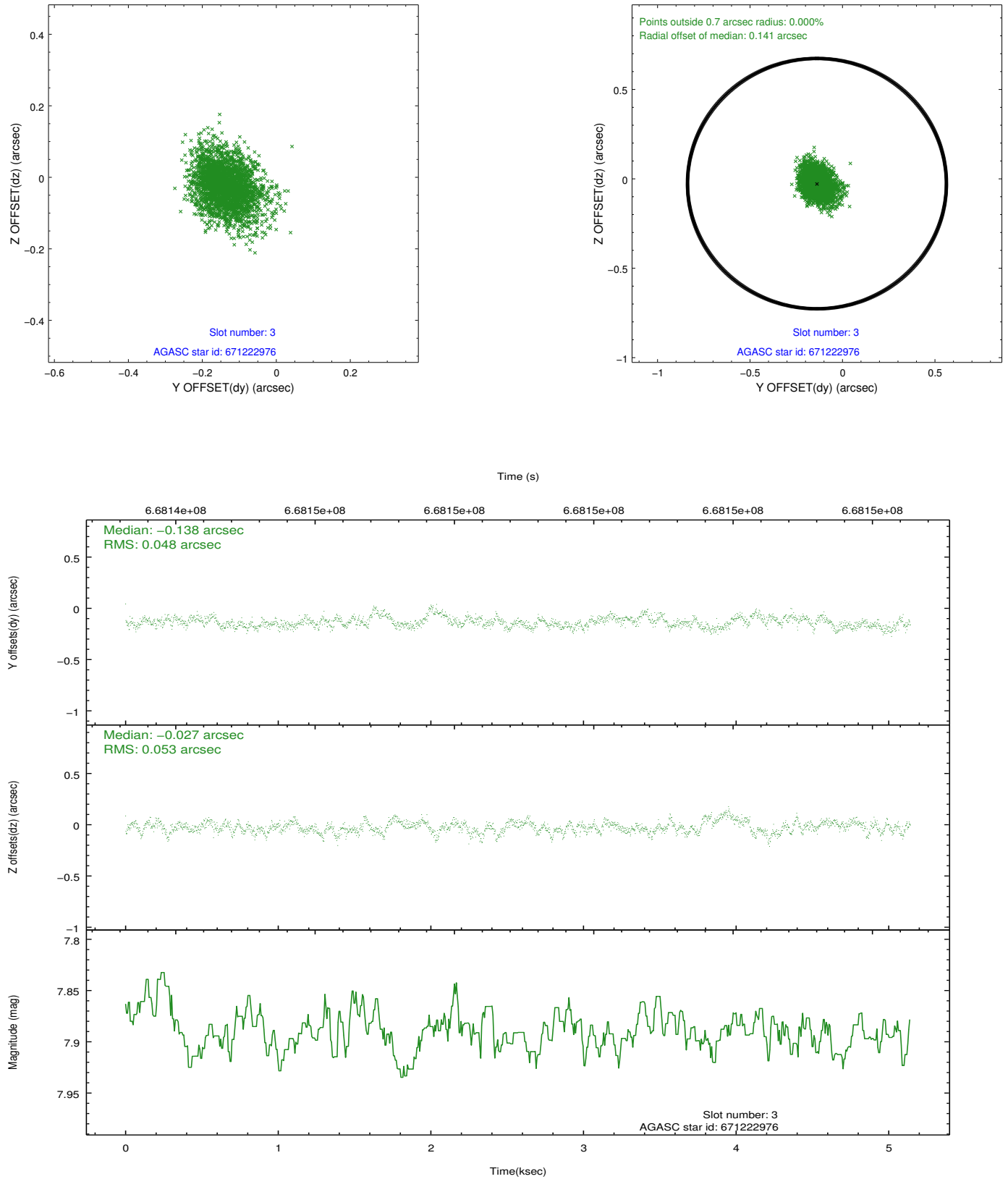


Slot Statistics

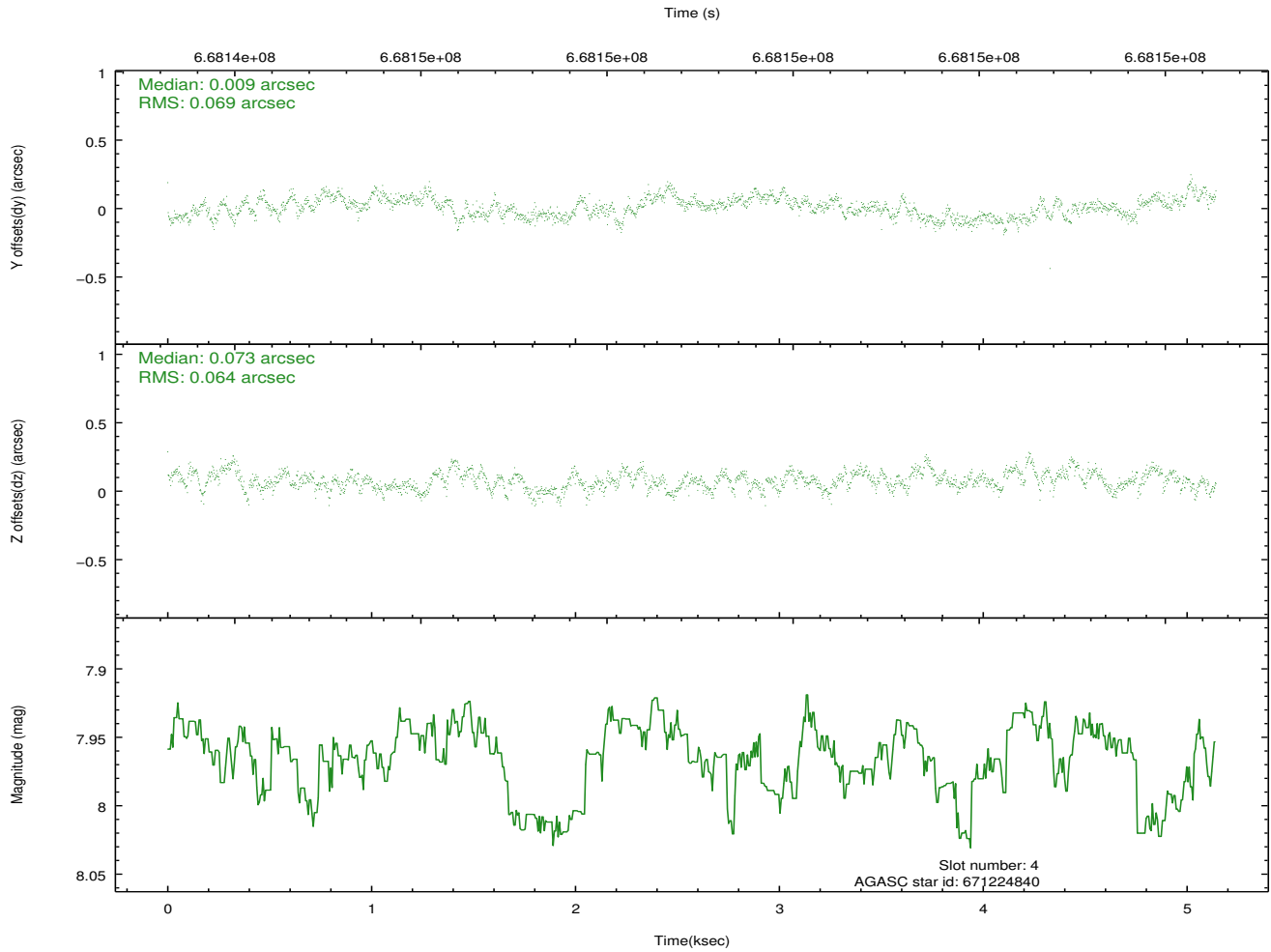
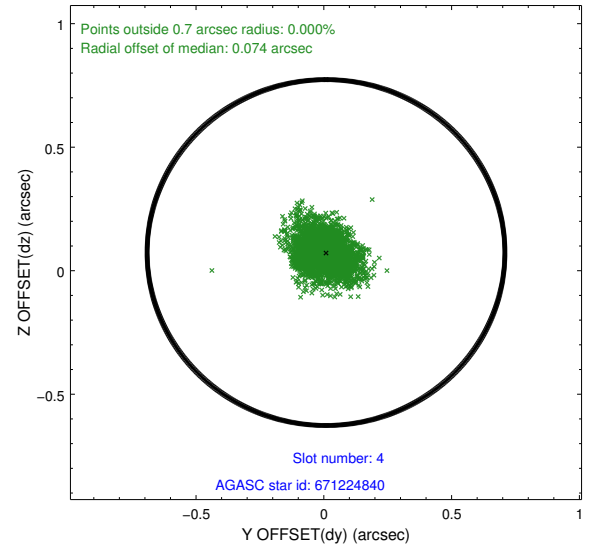
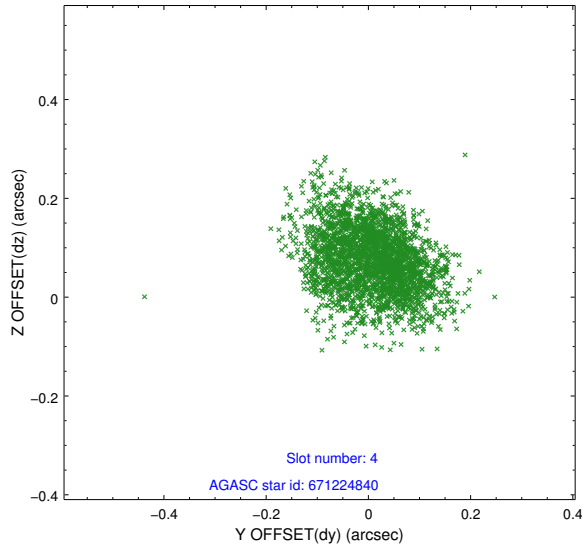
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	1254	1.000	0.015	-0.047	0.022	0.035	0.000000	0.000000	928.78	-843
1	FID		ACIS-I-2	7.02	1254	1.000	-0.467	-0.204	0.010	0.017	0.000000	0.000000	-765.14	-850
2	FID		ACIS-I-4	7.06	1254	1.000	0.353	0.316	0.019	0.035	0.000000	0.000000	2148.52	1056
3	GUIDE	used	671222976	7.89	2508	1.000	-0.138	-0.027	0.075	0.126	281.033634	-5.005625	698.44	-446
4	GUIDE	used	671224840	7.96	2504	1.000	0.009	0.073	0.100	0.161	281.186627	-5.187666	219.88	-1154
5	GUIDE	used	671757464	7.09	2509	1.000	0.265	0.323	0.104	0.161	280.850348	-5.694534	-1865.69	-498
6	GUIDE	used	671761568	8.52	2507	1.000	0.054	-0.367	0.098	0.171	280.250283	-5.657644	-2333.34	1603
7	GUIDE	used	671357648	8.08	2505	1.000	-0.186	-0.006	0.101	0.185	281.369237	-4.599649	2433.89	-1201

2.4 Star Slots

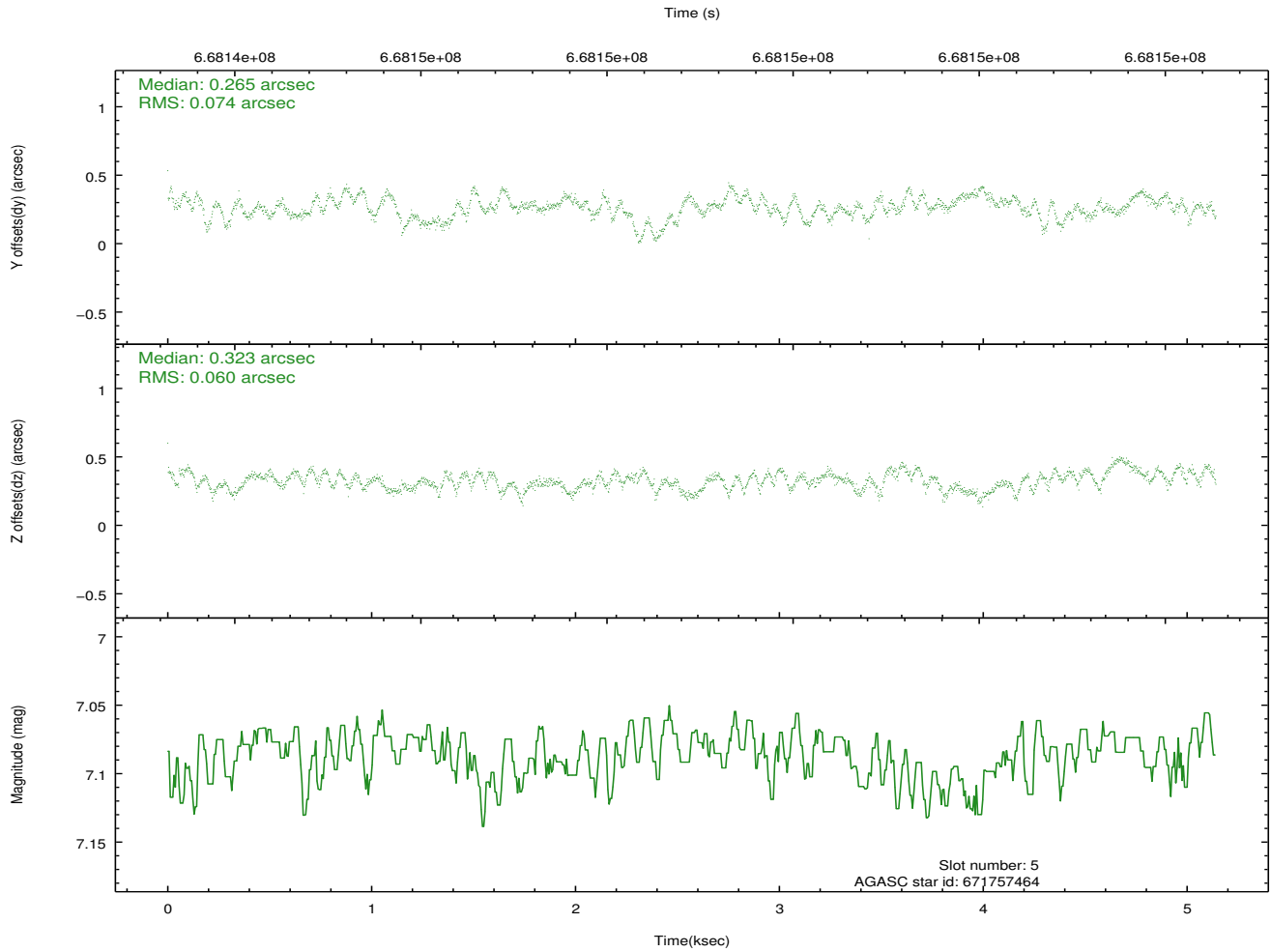
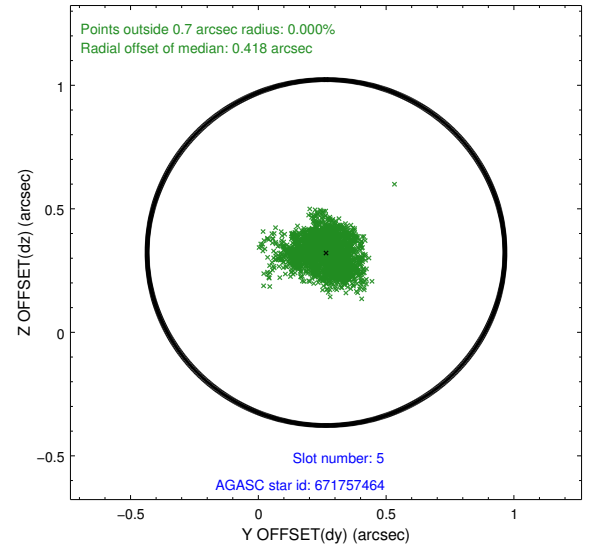
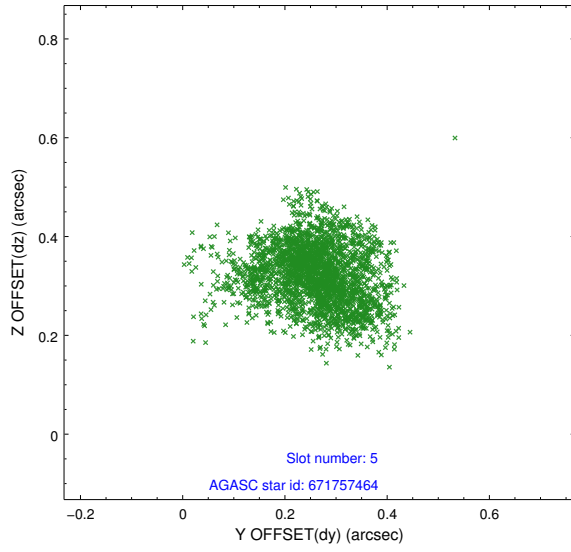
2.4.1 Slot 3



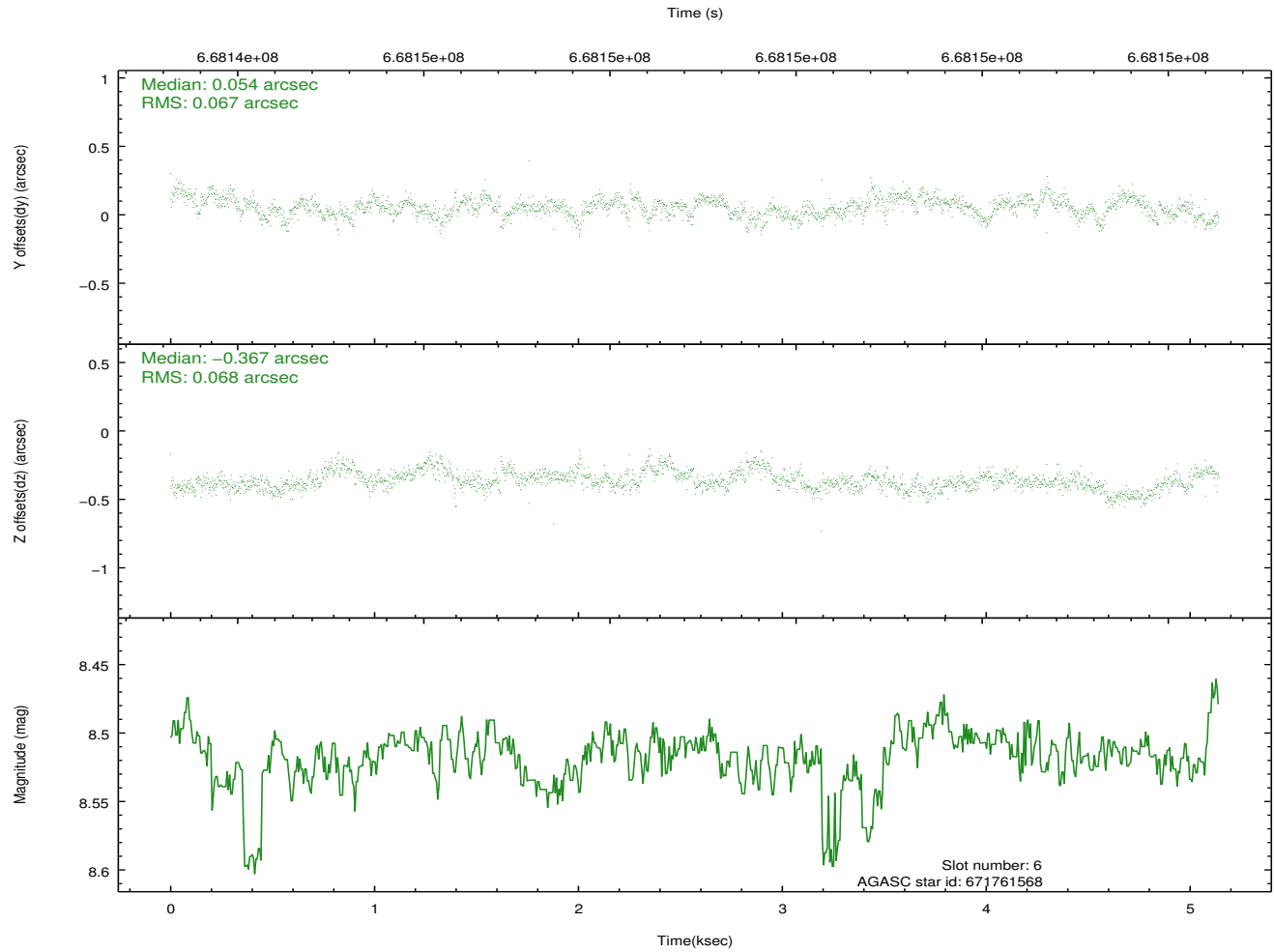
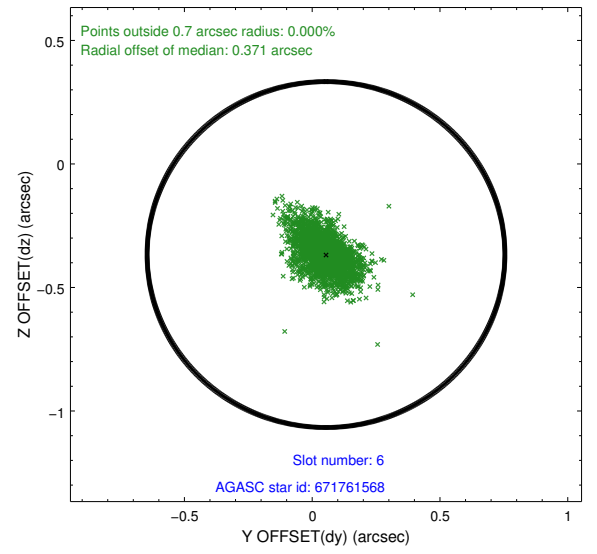
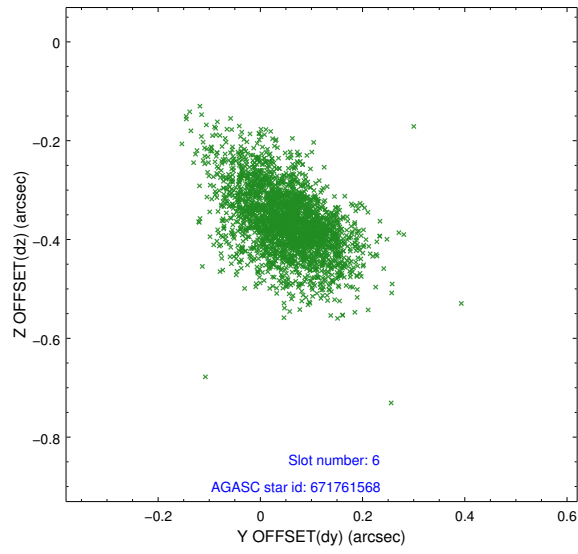
2.4.2 Slot 4



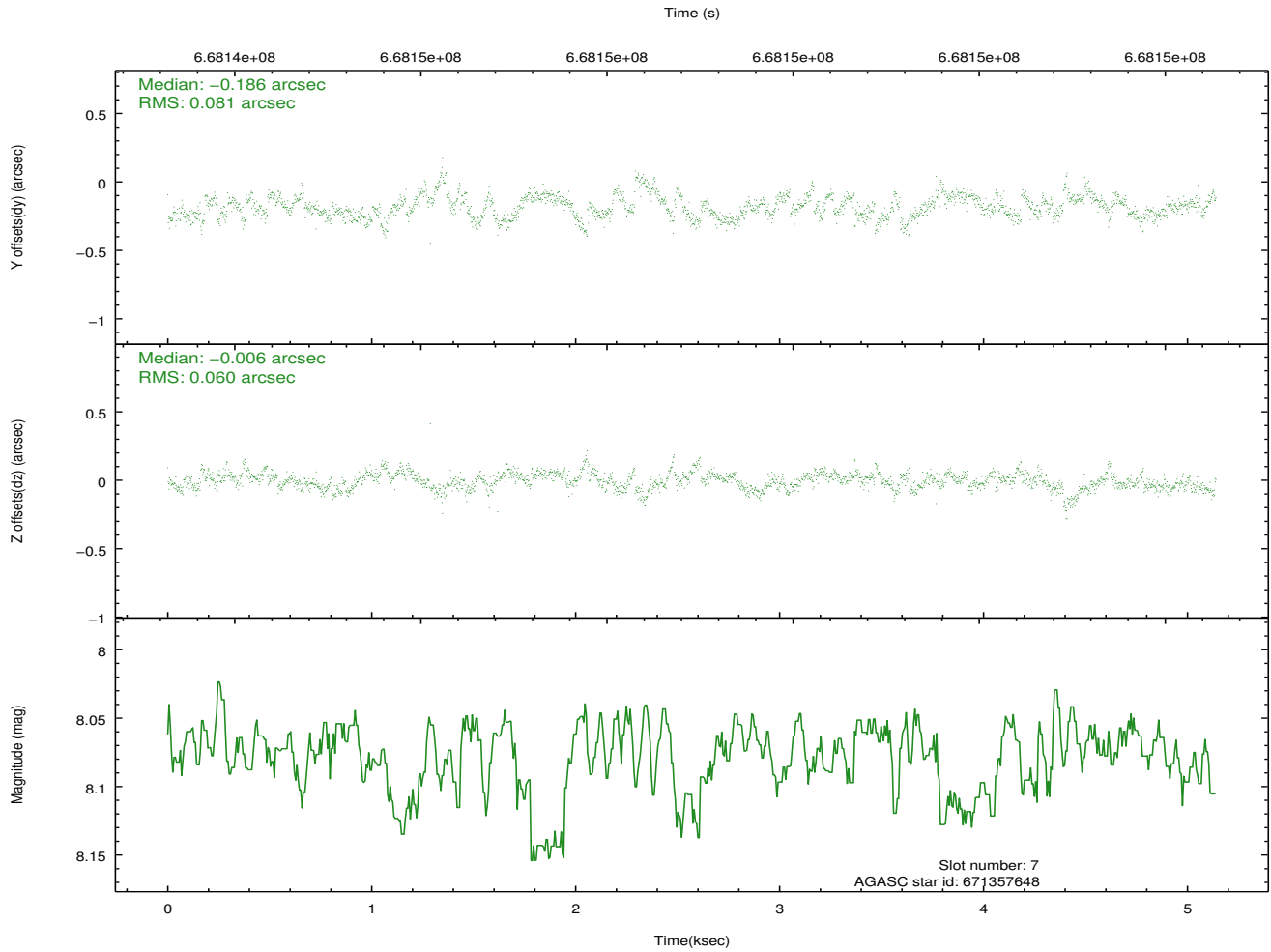
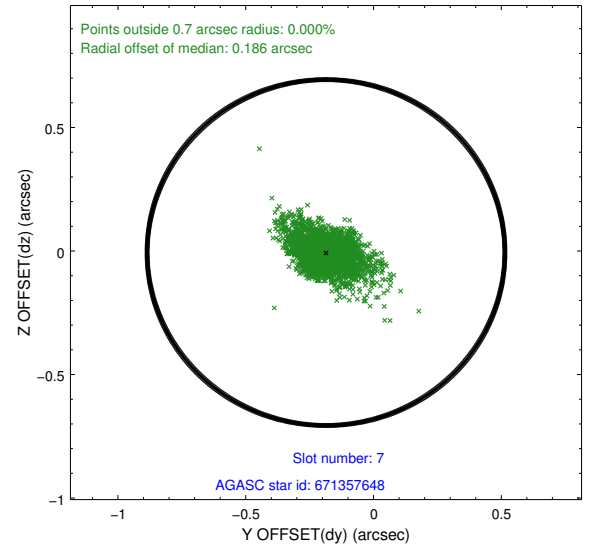
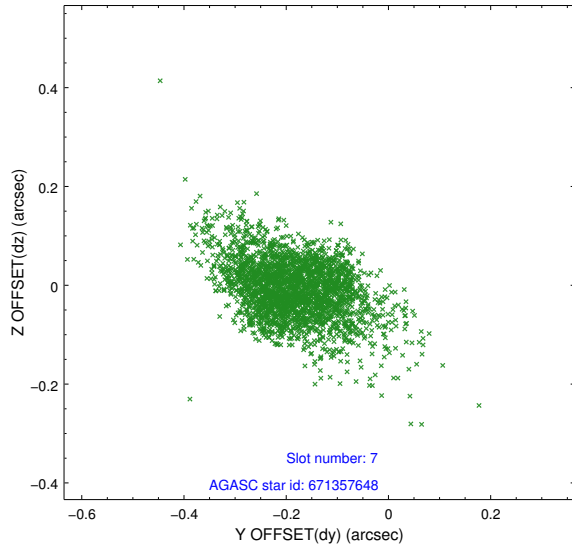
2.4.3 Slot 5



2.4.4 Slot 6

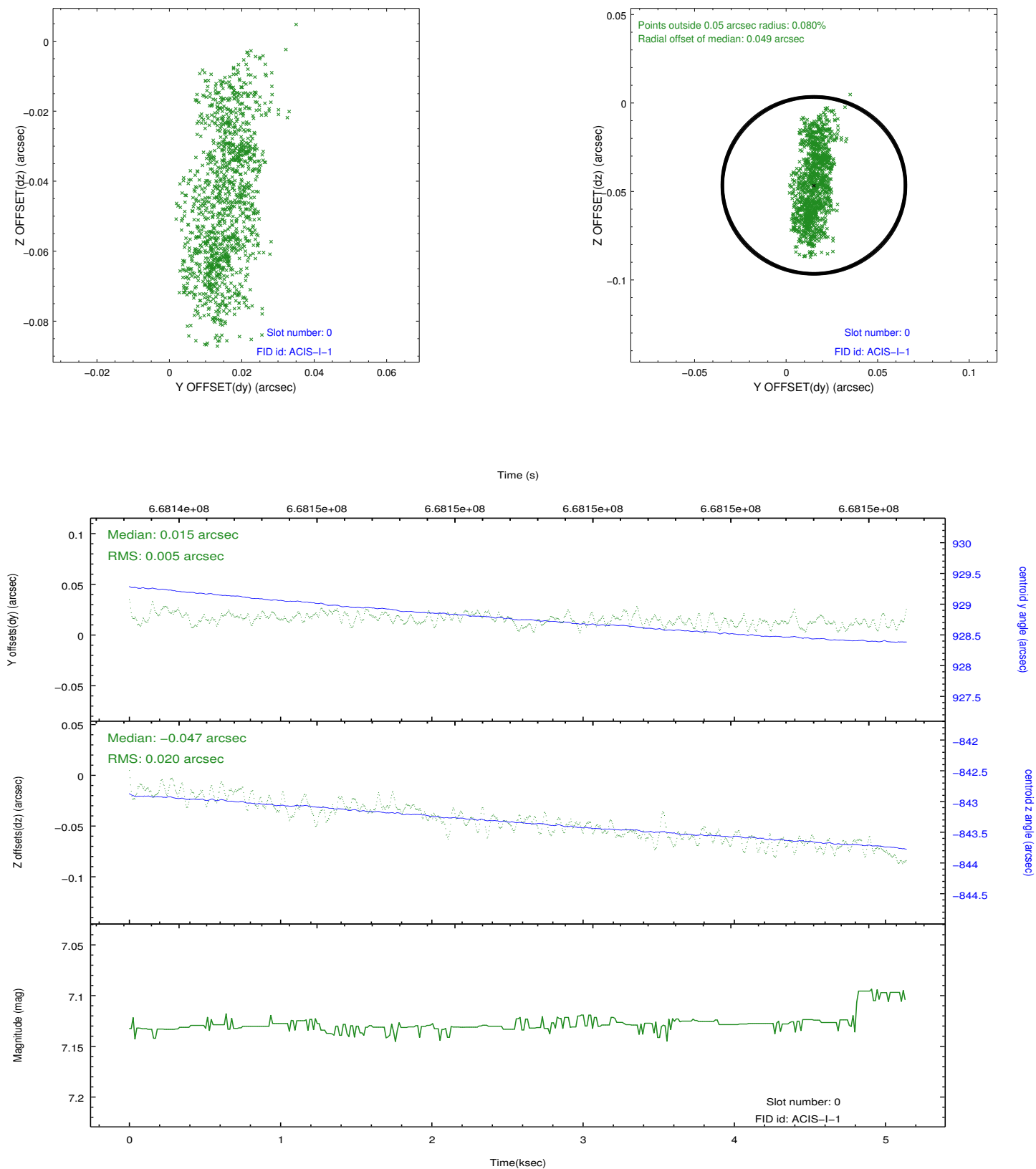


2.4.5 Slot 7

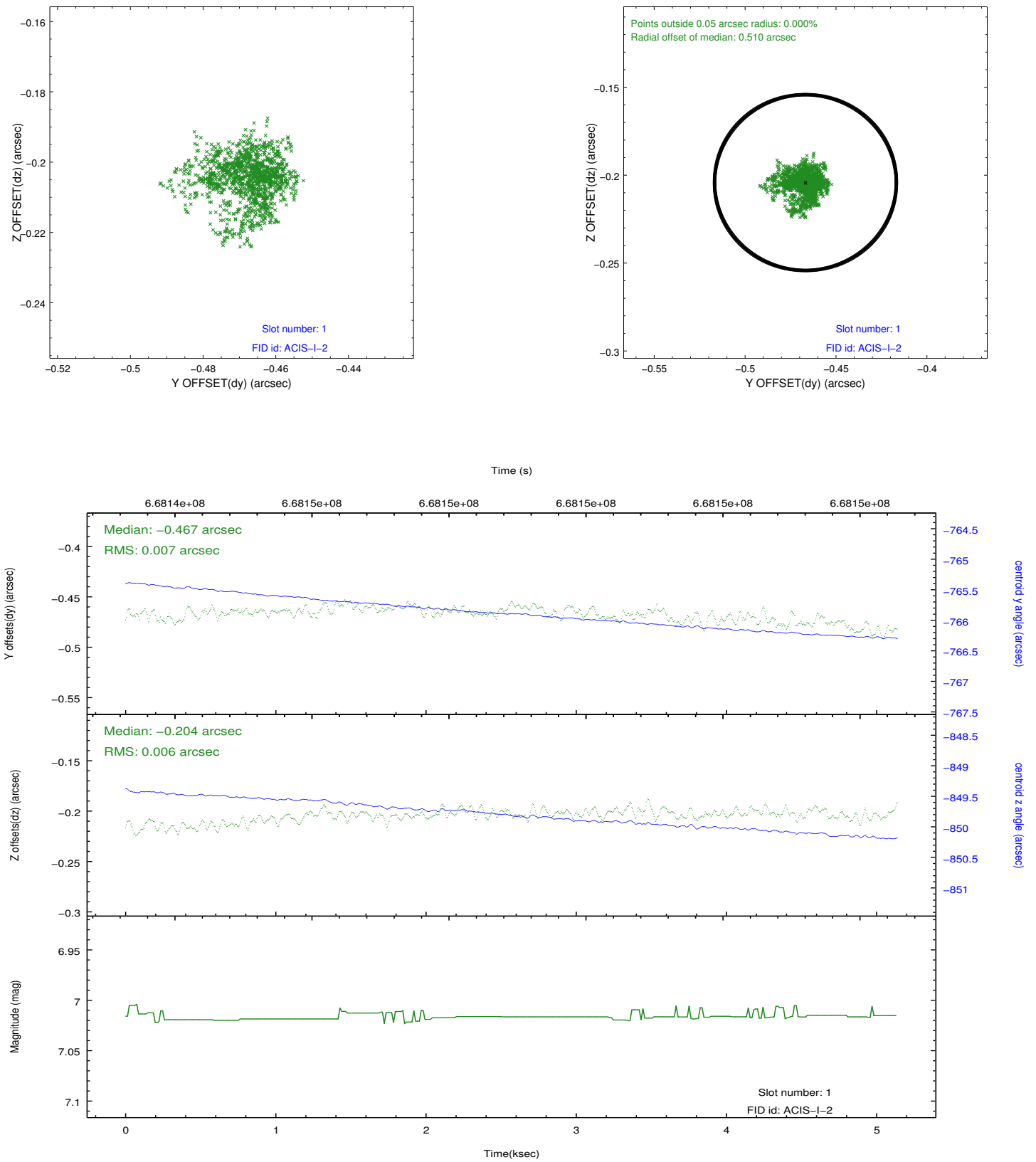


2.5 FID Slots

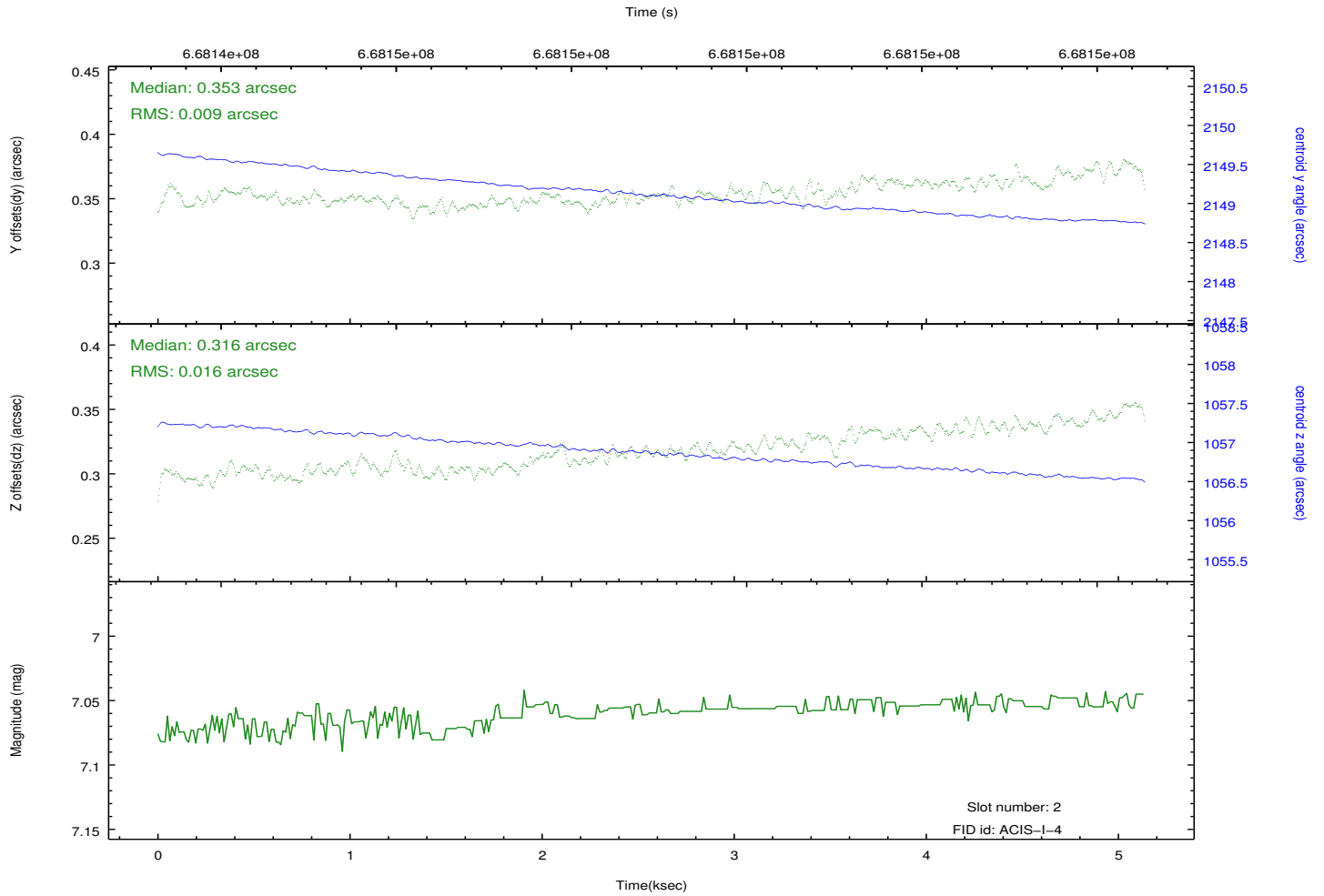
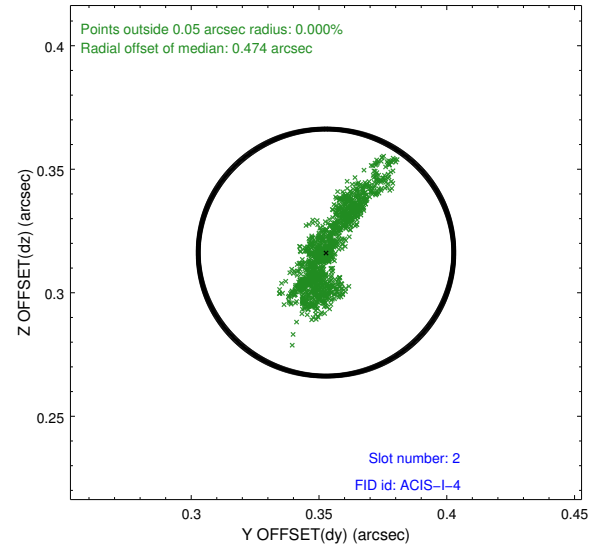
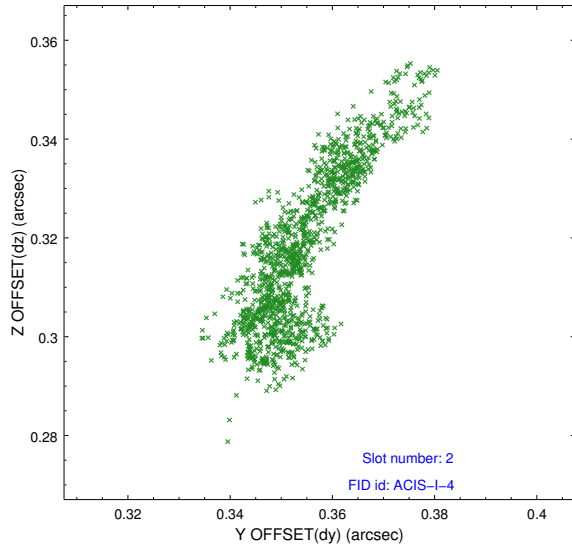
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.03.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9504000737667

A.2 Comments