

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18969 - L2 Version 1
Chandra X-Ray Center

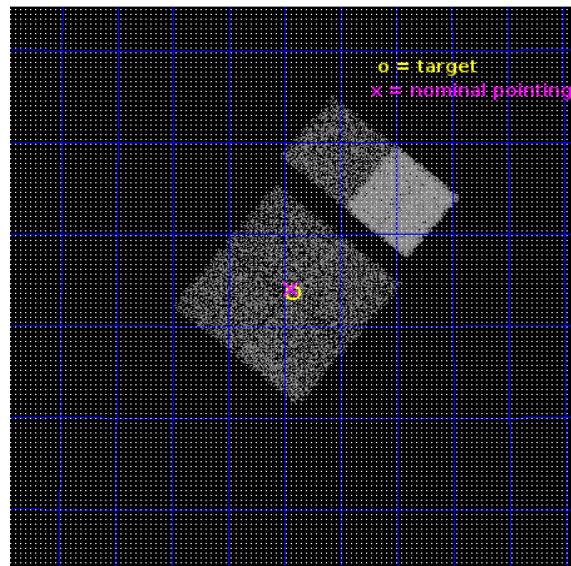
L2 Processing Date : Feb 27 2017

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1 Front

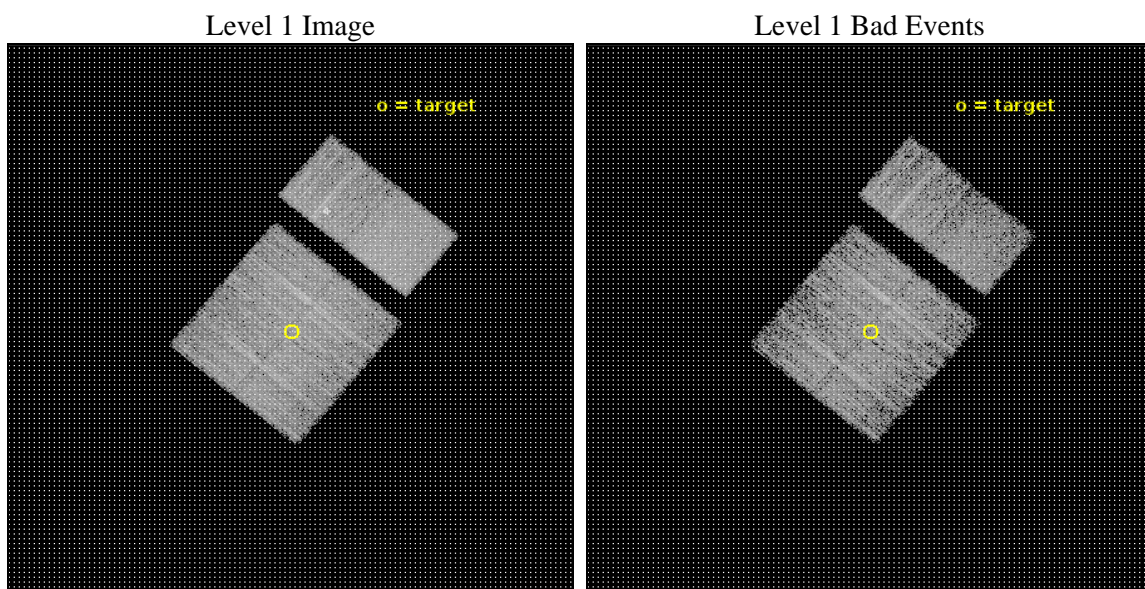
seq_num	401837	Sequence number
obs_id	18969	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J20310+3835	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.730417	Observer's specified target RA [deg]
dec_targ	38.560944	Observer's specified target Dec [deg]
ra_nom	307.73505706903	Nominal RA [deg]
dec_nom	38.568279662675	Nominal Dec [deg]
roll_nom	39.616886081729	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4940.8000736237	Sum of GTIs [s]
livetime	4878.2366880988	Livetime [s]
ontime0	4940.8000736237	Sum of GTIs [s]
ontime1	4937.5590533018	Sum of GTIs [s]
ontime2	4940.8000736237	Sum of GTIs [s]
ontime3	4940.8000736237	Sum of GTIs [s]
ontime6	4940.8000736237	Sum of GTIs [s]
ontime7	4940.8000736237	Sum of GTIs [s]
l2events	35914	Number of level 2 events



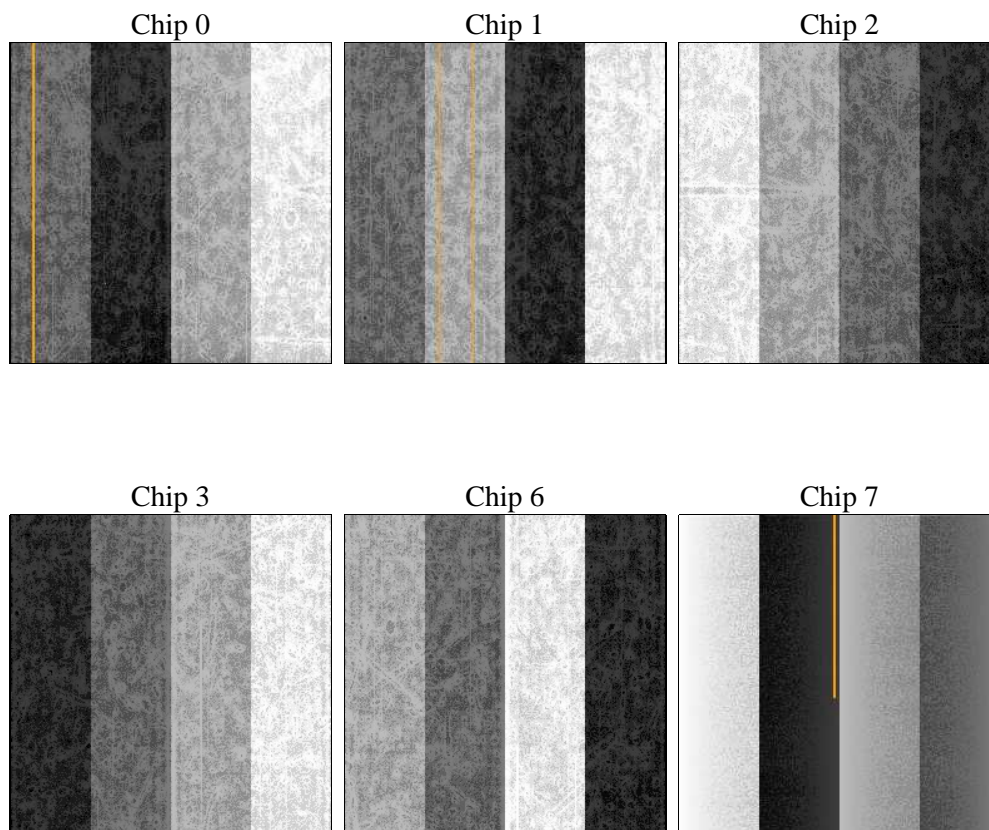
2 OBI

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	10.5.2	Processing system revision	ontime	4940.8000736237	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	4940.8000736237	Sum of GTIs [s]
date	2017-02-27T06:14:14	Date and time of file creation	ontime1	4937.5590533018	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4940.8000736237	Sum of GTIs [s]
			ontime3	4940.8000736237	Sum of GTIs [s]
			ontime6	4940.8000736237	Sum of GTIs [s]
			ontime7	4940.8000736237	Sum of GTIs [s]
			l1events	221511	Number of level 1 events

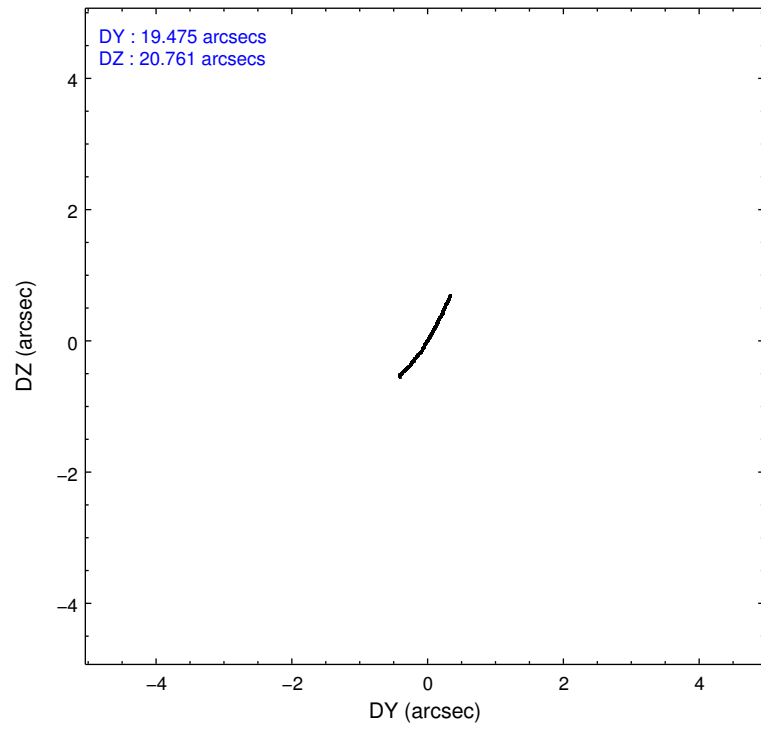
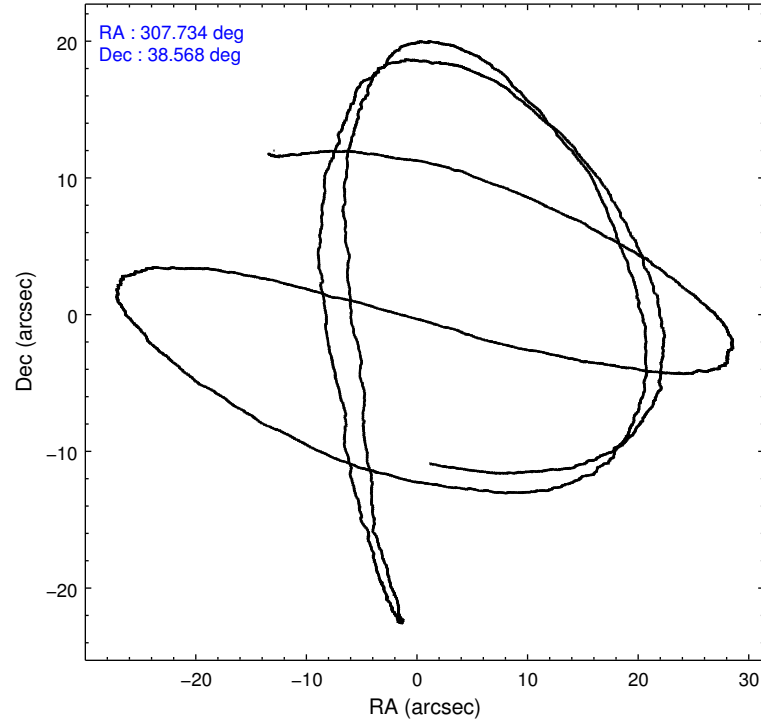
2.1.4 Events

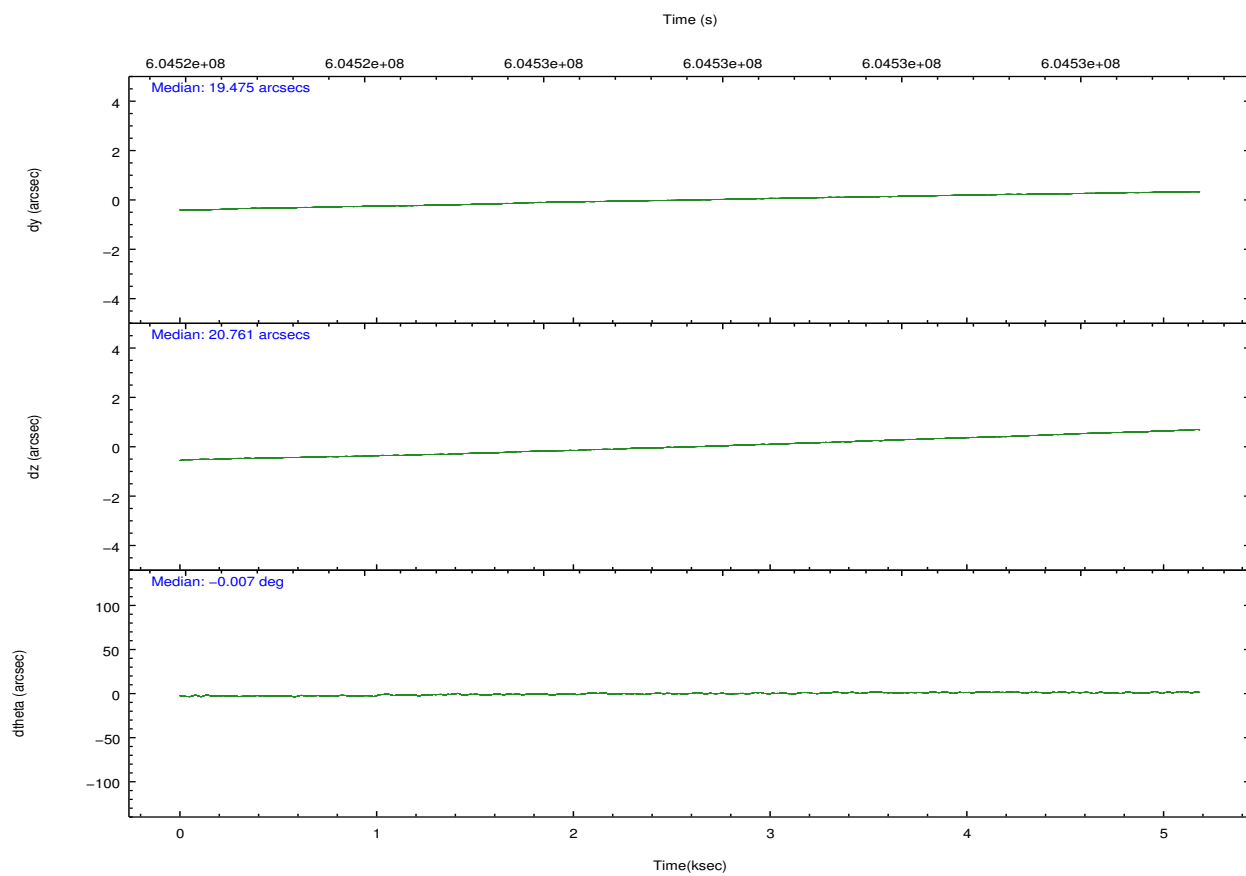
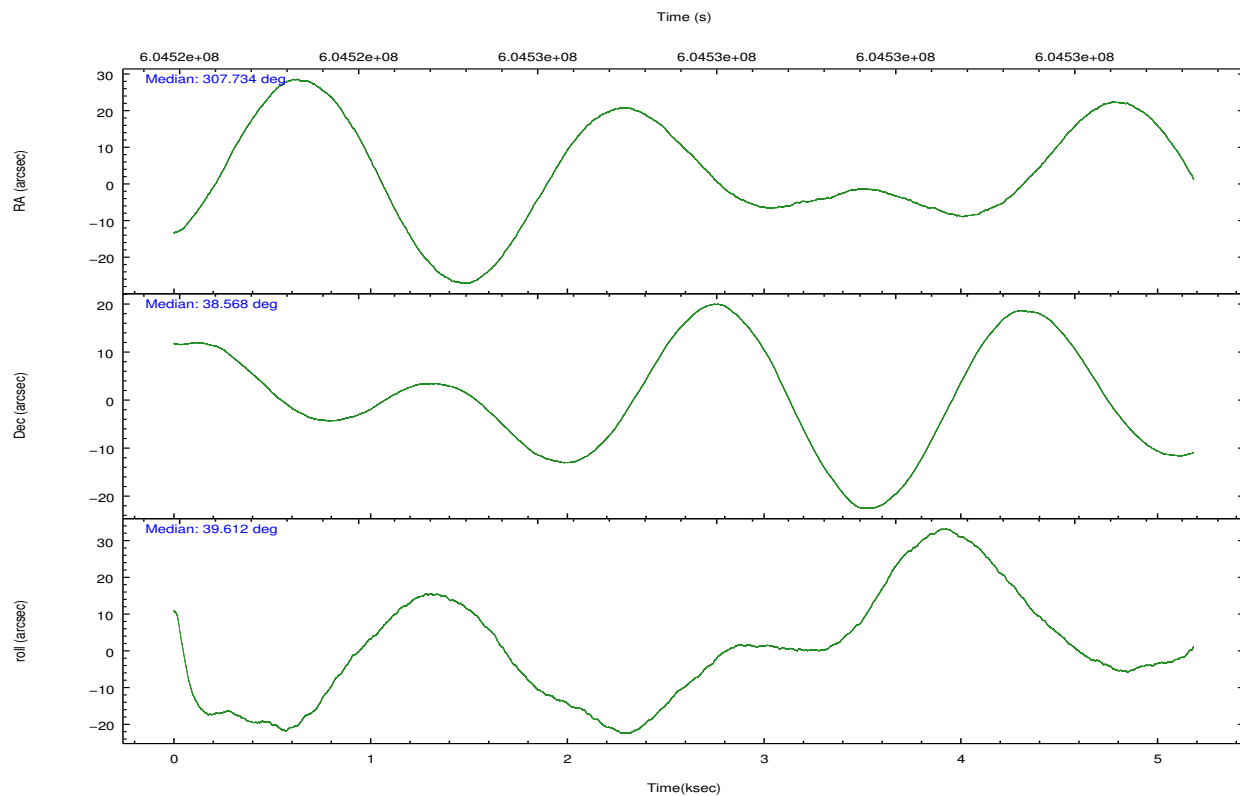
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31781	34484	37806	35823	36286	45331	grade 0 events	1304	1500	1356	1547	2773	1674
rejected events	27936	30102	34008	31811	30836	25861		4%	4%	3%	4%	7%	3%
rejected %	87%	87%	89%	88%	84%	57%	grade 1 events	19	17	23	28	35	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	971	1157	869	863	913	4196
								3%	3%	2%	2%	2%	9%
							grade 3 events	377	409	405	395	398	1497
								1%	1%	1%	1%	1%	3%
							grade 4 events	371	376	398	400	387	1473
								1%	1%	1%	1%	1%	3%
							grade 5 events	1552	1465	1380	1673	1625	4303
								4%	4%	3%	4%	4%	9%
							grade 6 events	826	944	772	811	983	10641
								2%	2%	2%	2%	2%	23%
							grade 7 events	26361	28616	32603	30106	29172	21479
								82%	82%	86%	84%	80%	47%

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	307.722223	307.7350570690344	CCD I2 on	Y	Y
[deg] Pointing Dec	38.542157	38.56827966267468	CCD I3 on	Y	Y
[deg] Pointing Roll	39.416132	39.61688608172926	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)	604524401.184000	604523383.8725899	CCD S5 on	N	N
Observation start date	2017-02-26T19:25:32	2017-02-26T19:09:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	604529401.184000	604530848.4355201	On-chip summing requested	N	N
Observation end date	2017-02-26T20:48:52	2017-02-26T21:14:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



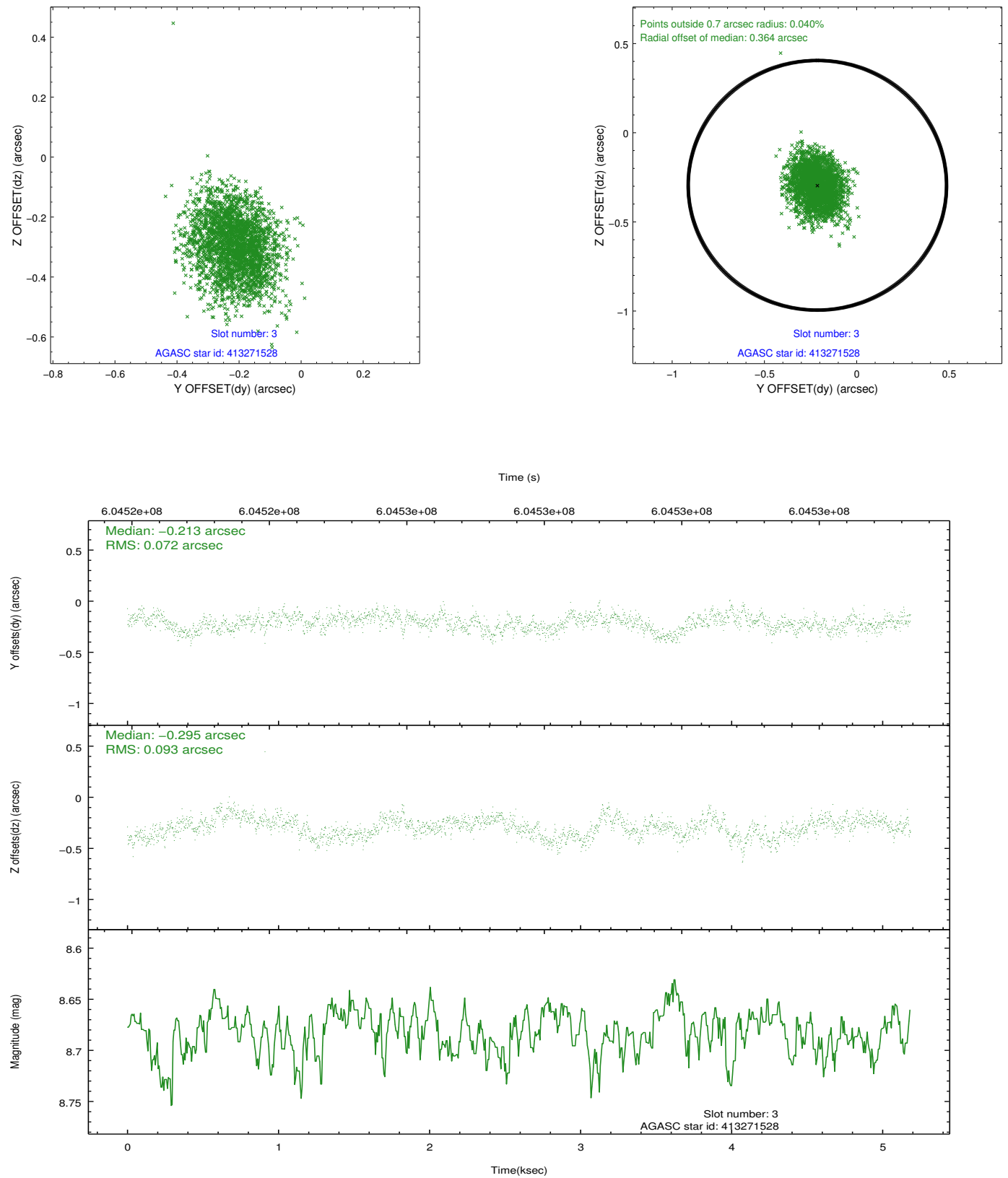


Slot Statistics

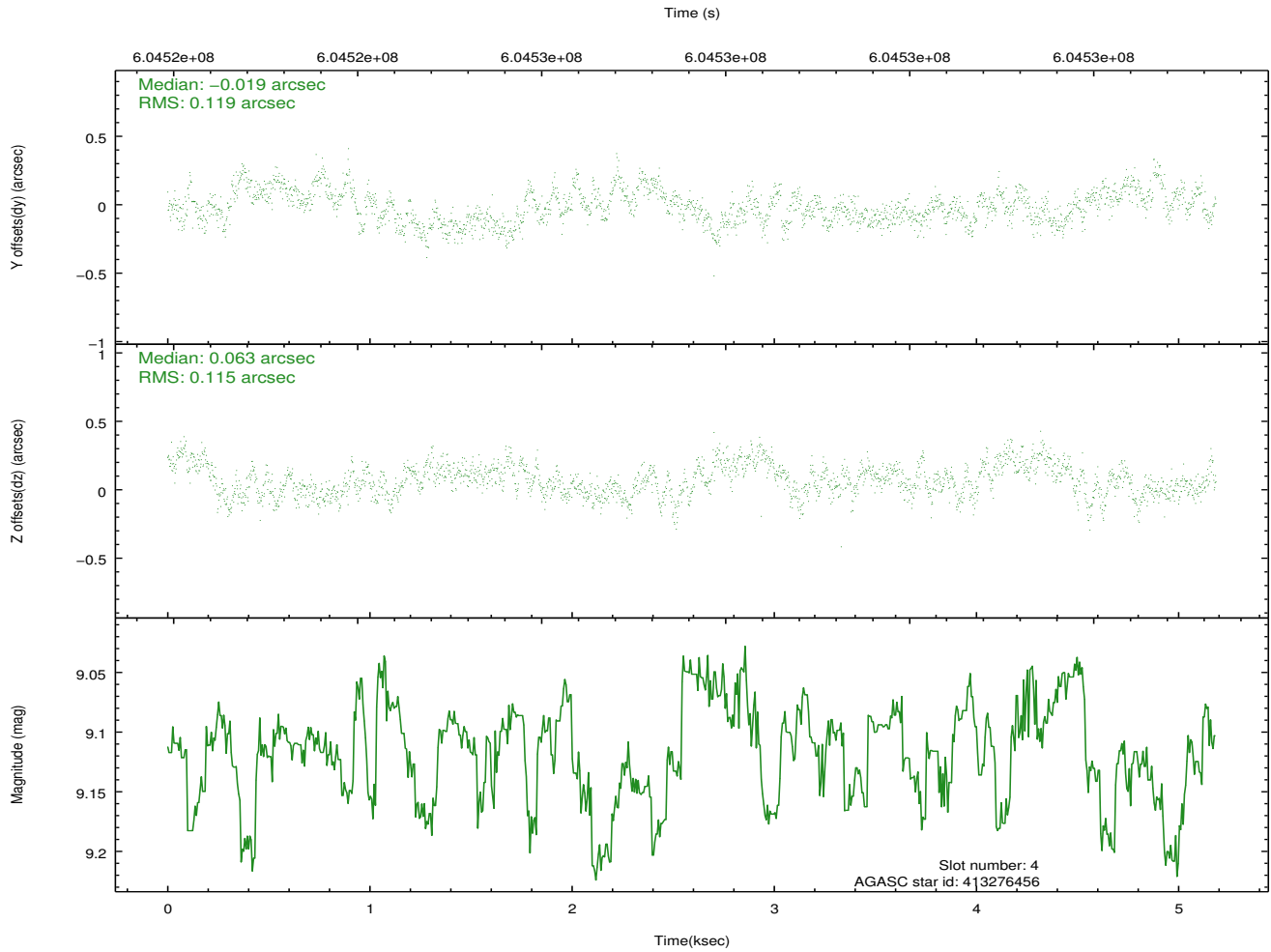
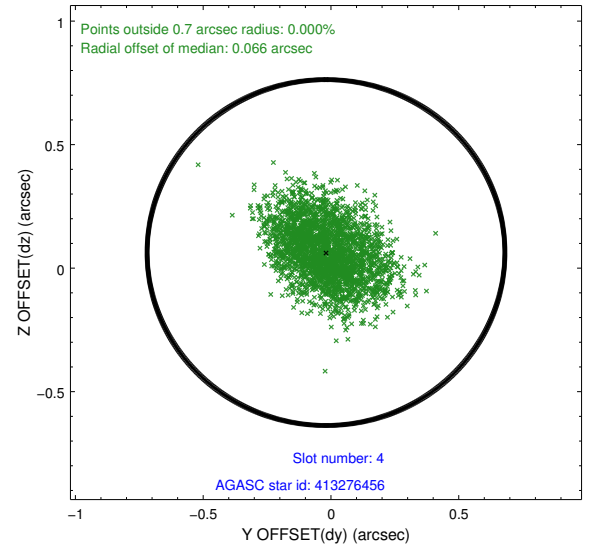
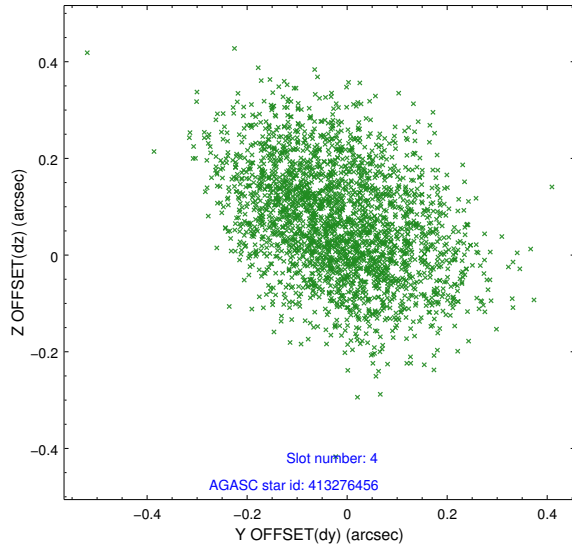
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	1265	0.200	-0.082	0.010	0.020	0.000000	0.000000	920.15	-844.54
1	FID		ACIS-I-2	7.11	1265	-0.094	-0.002	0.011	0.020	0.000000	0.000000	-773.59	-851.64
2	FID		ACIS-I-5	7.21	1265	-0.199	0.155	0.014	0.024	0.000000	0.000000	-1829.22	1052.35
3	GUIDE	used	413271528	8.68	2529	-0.213	-0.295	0.127	0.198	308.086127	39.189710	2263.97	1158.45
4	GUIDE	used	413276456	9.12	2525	-0.019	0.063	0.179	0.277	308.428666	38.834660	2203.27	-437.29
5	GUIDE	used	413277248	9.16	2525	0.210	0.513	0.144	0.232	307.832843	37.840116	-1362.08	-2151.17
6	GUIDE	used	413141992	7.80	2529	-0.234	-0.441	0.089	0.152	306.903303	38.846155	-1075.11	2310.62
7	GUIDE	used	413144416	8.63	2528	0.252	0.153	0.119	0.188	307.033417	38.371470	-1889.34	766.93

2.4 Star Slots

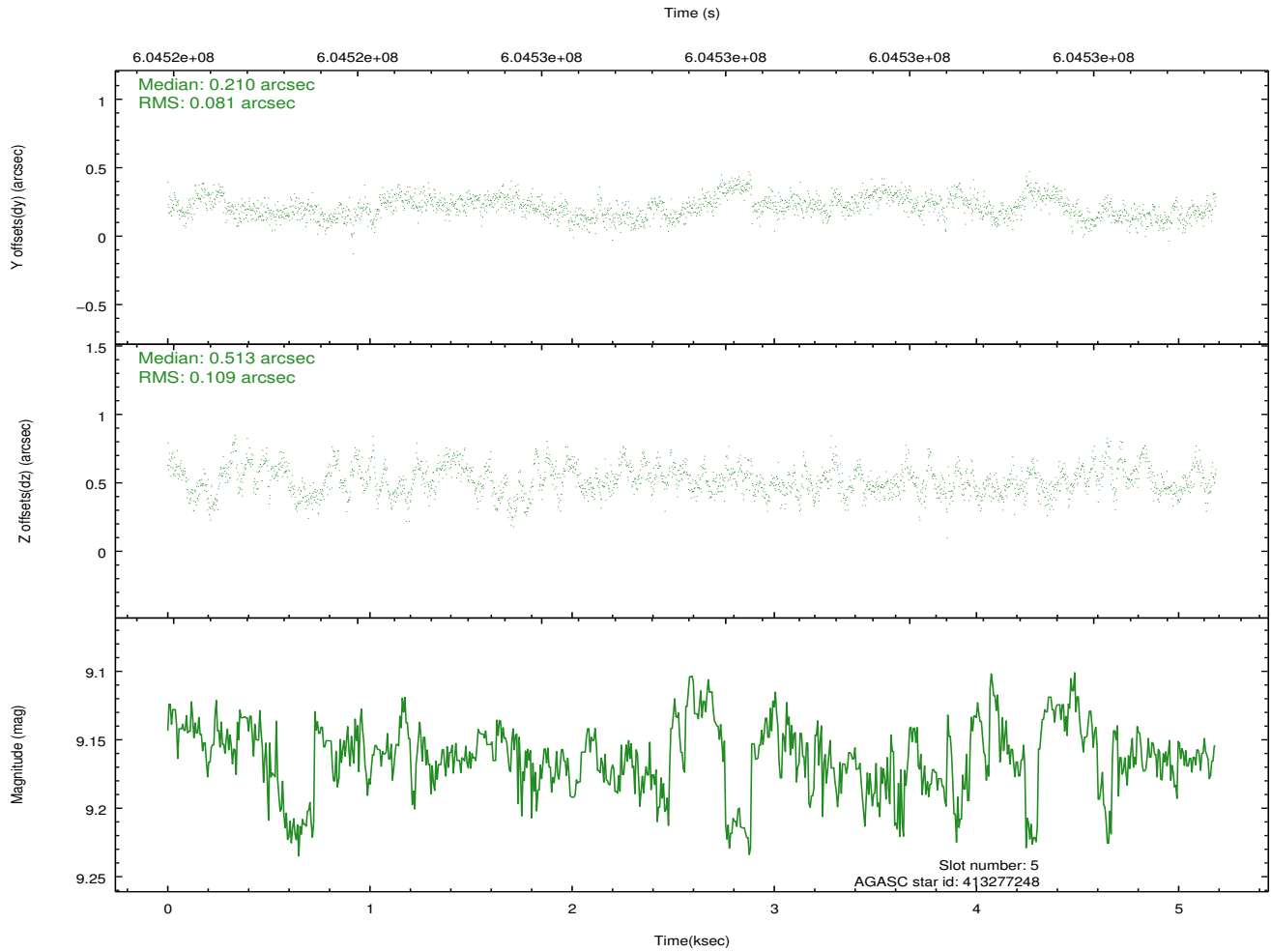
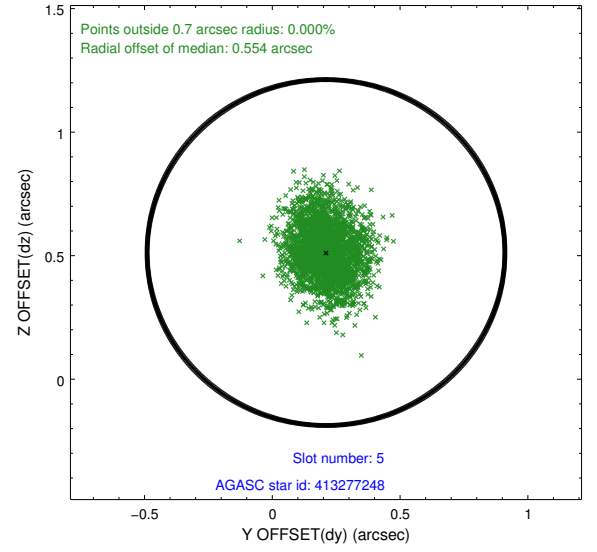
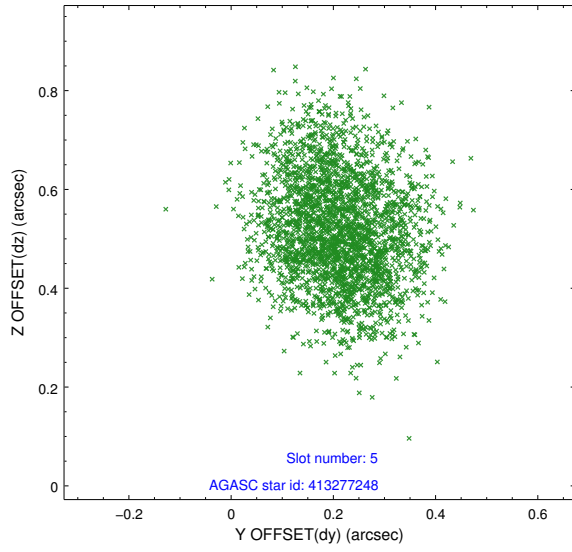
2.4.1 Slot 3



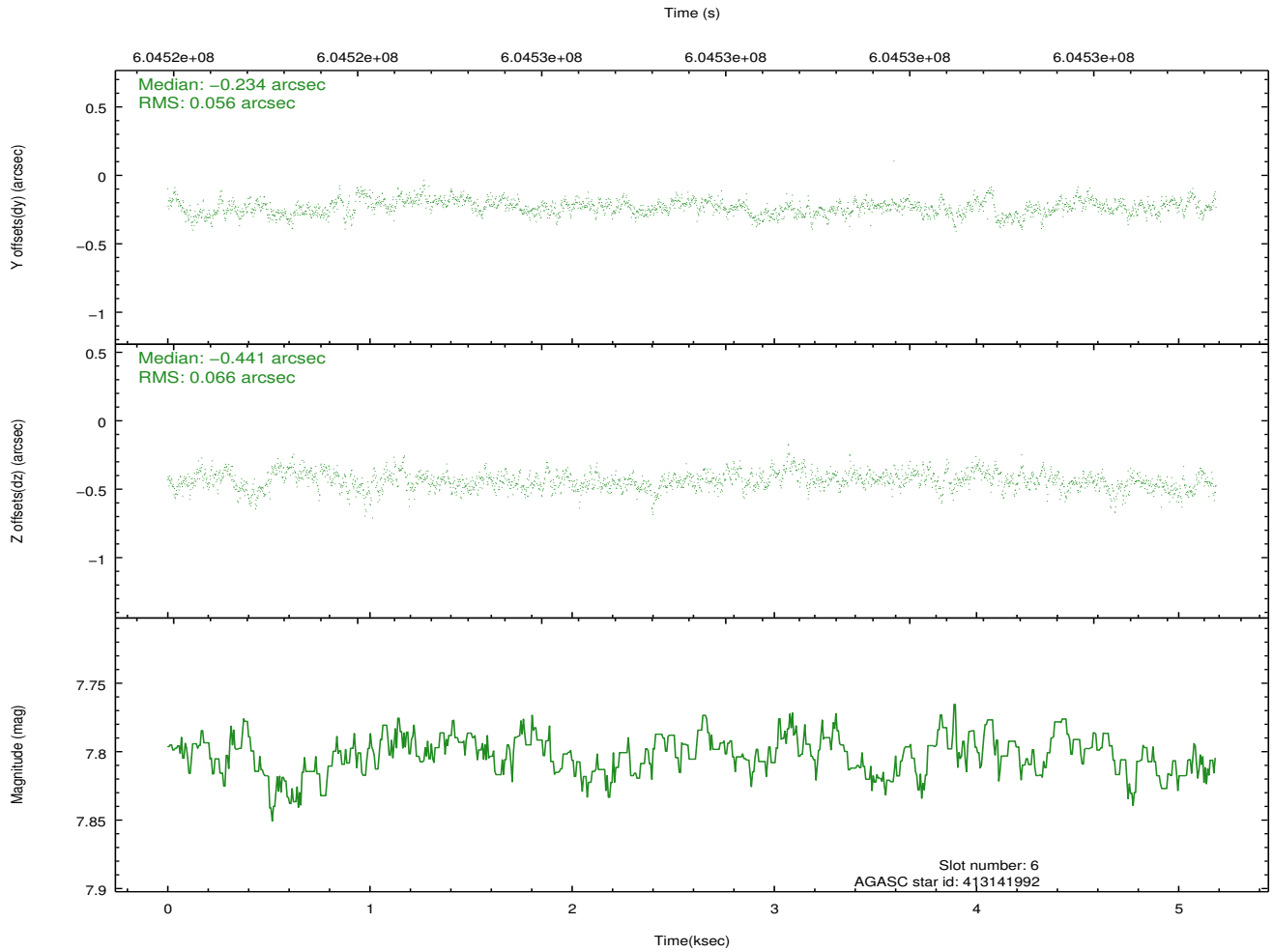
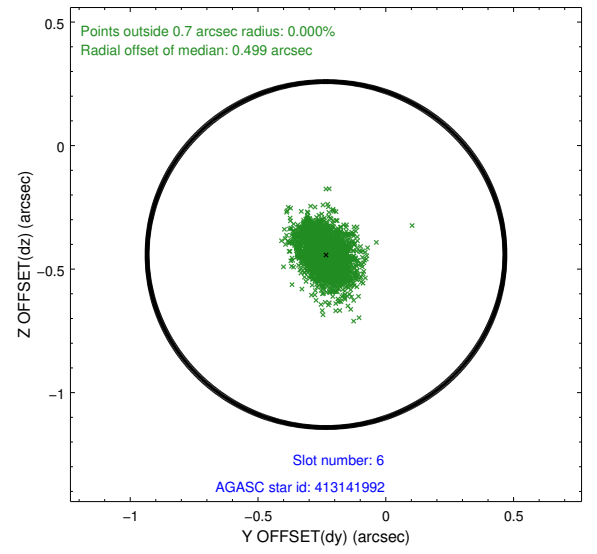
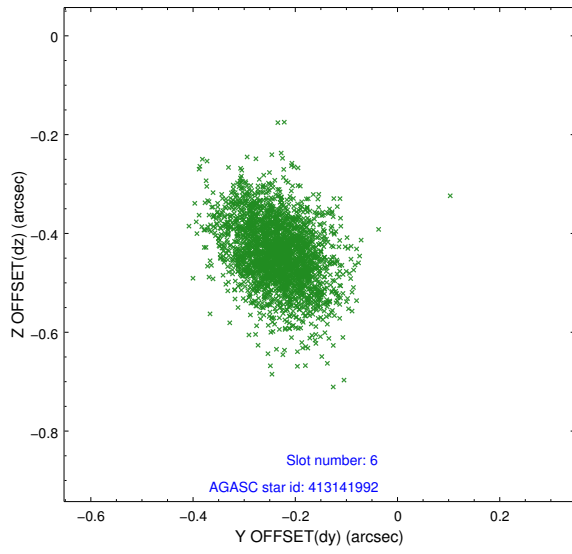
2.4.2 Slot 4



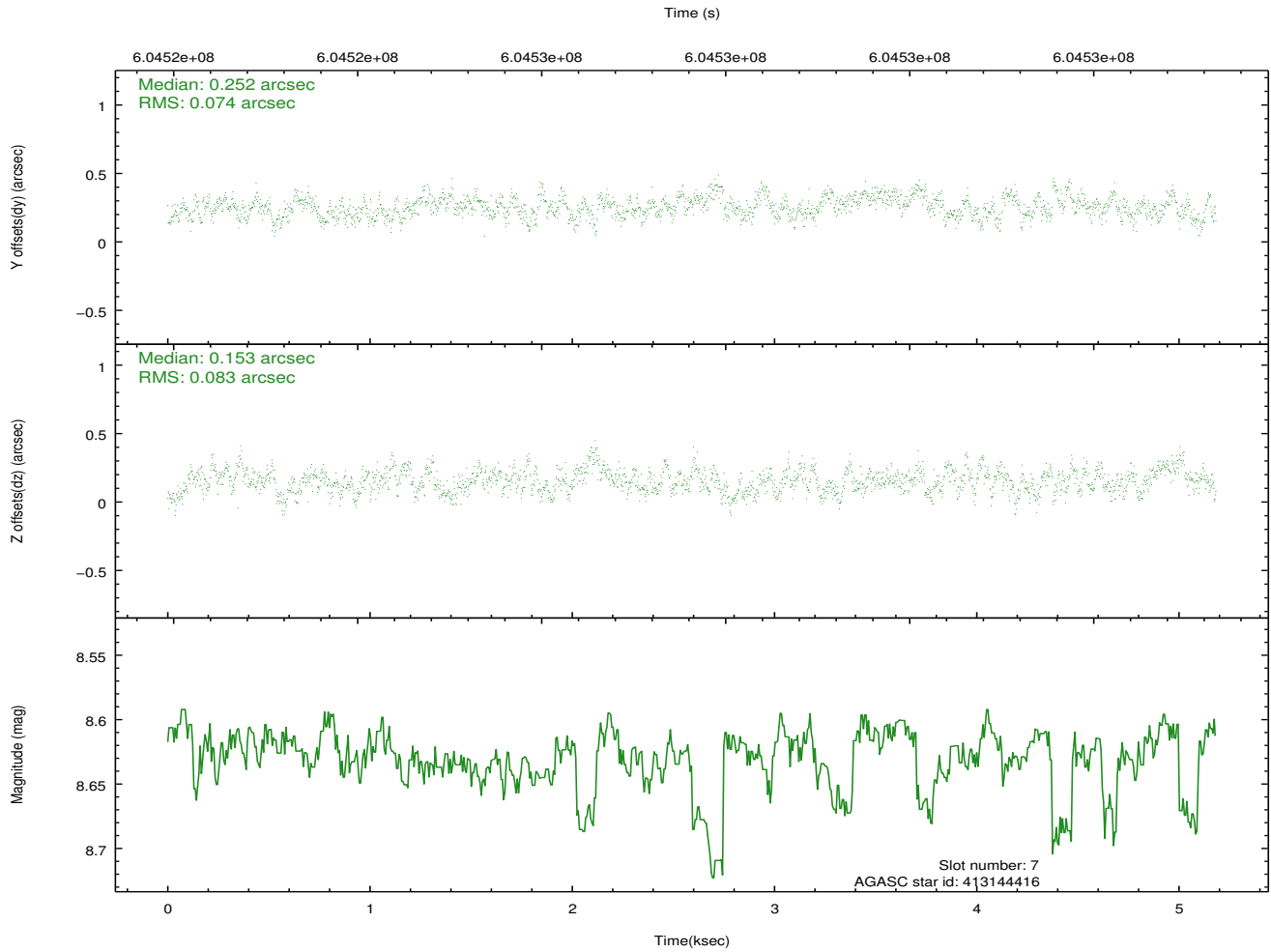
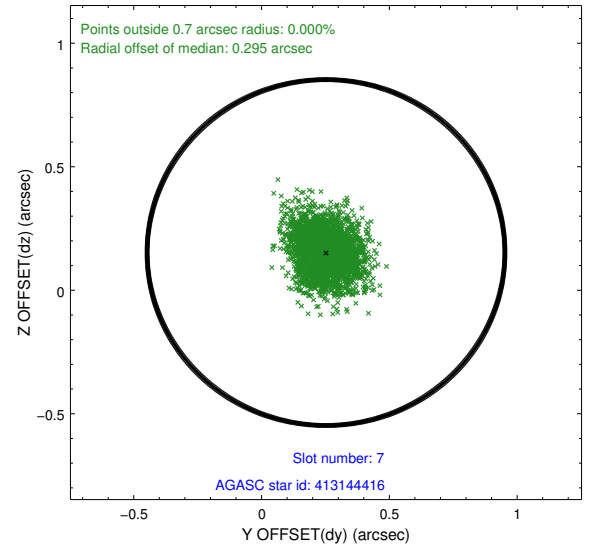
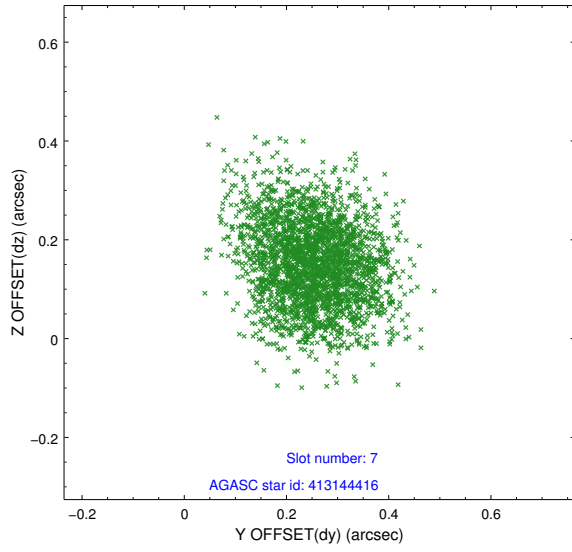
2.4.3 Slot 5



2.4.4 Slot 6

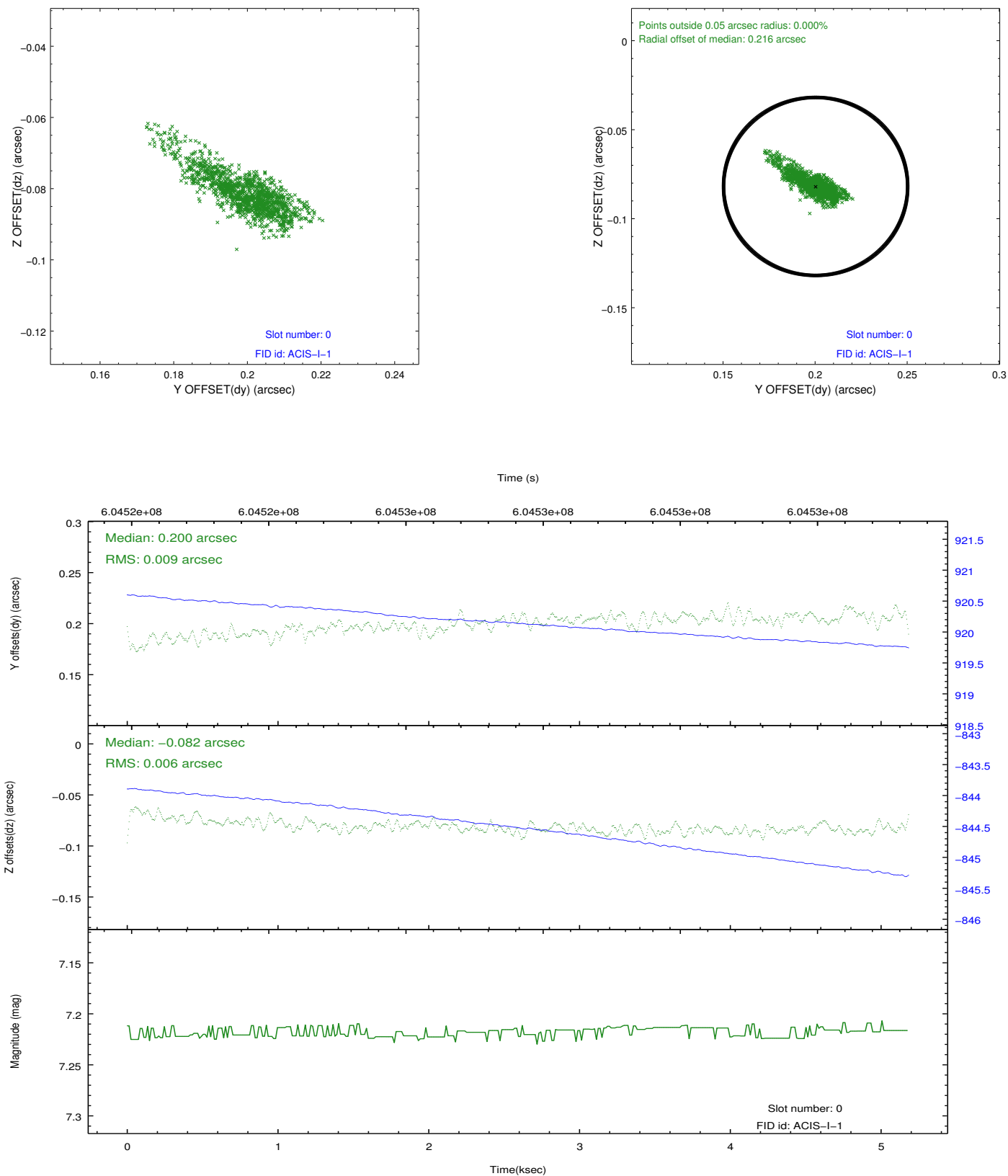


2.4.5 Slot 7

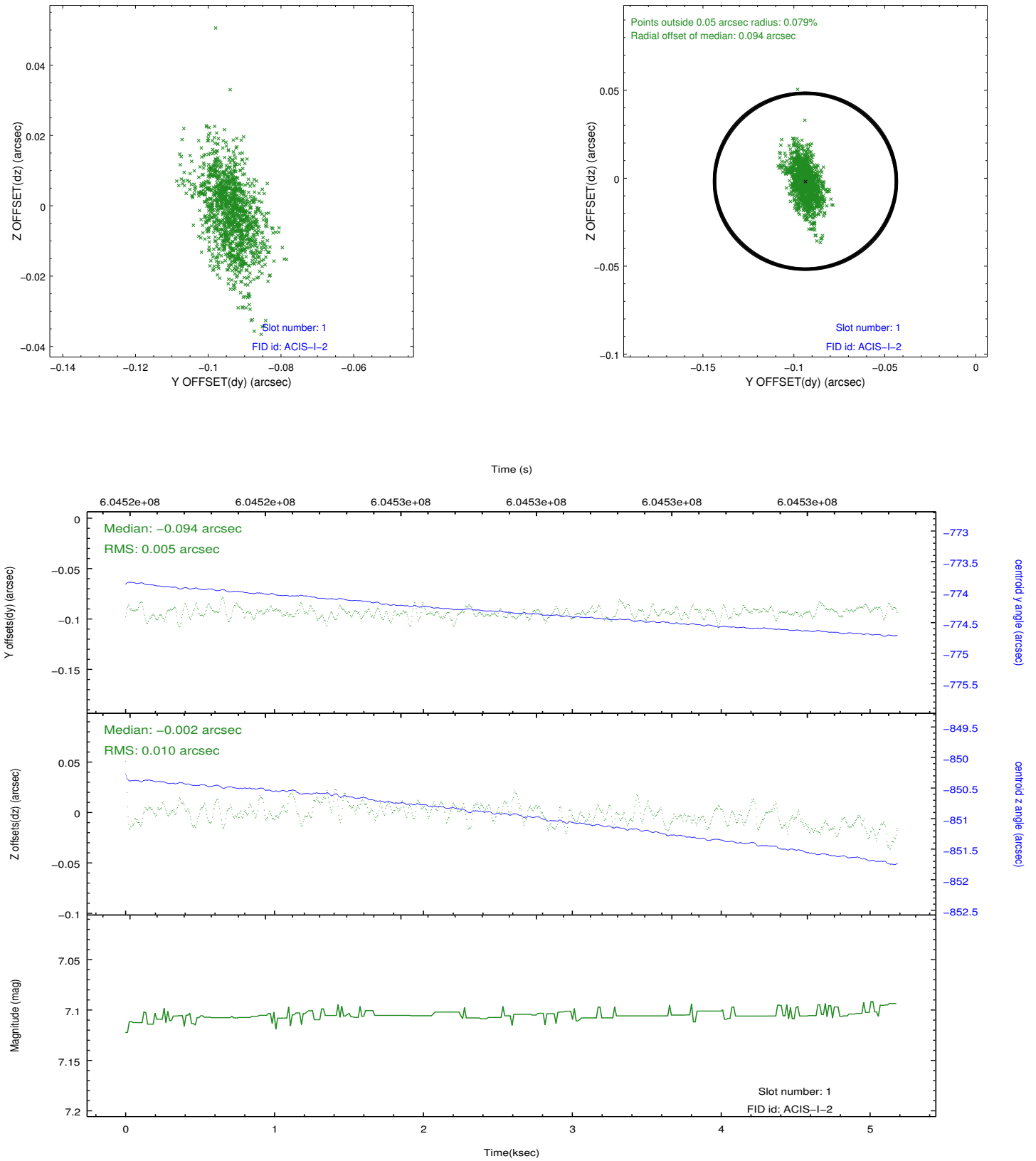


2.5 FID Slots

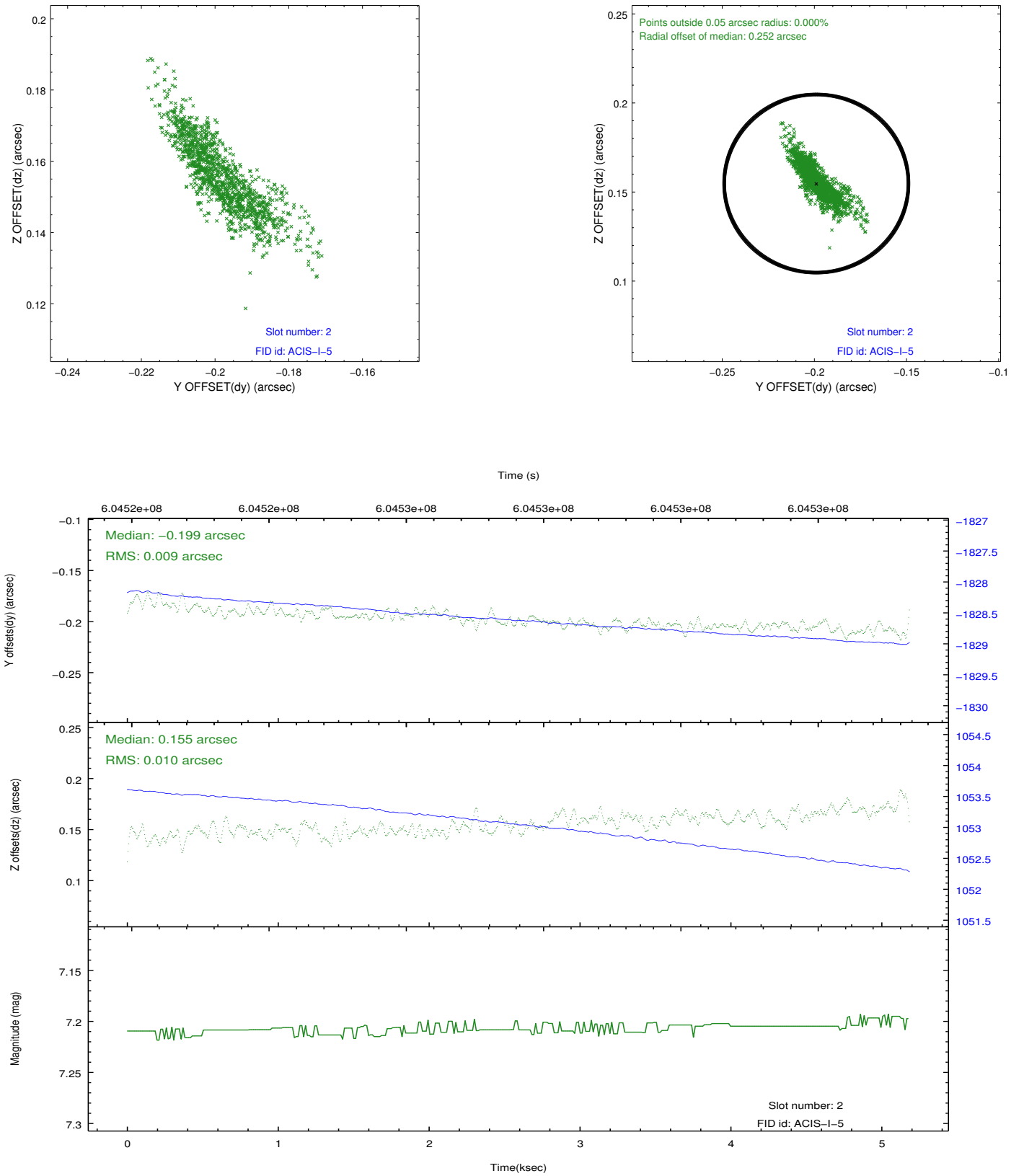
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9408000736237

A.2 Comments