

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16737 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jul 6 2015

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

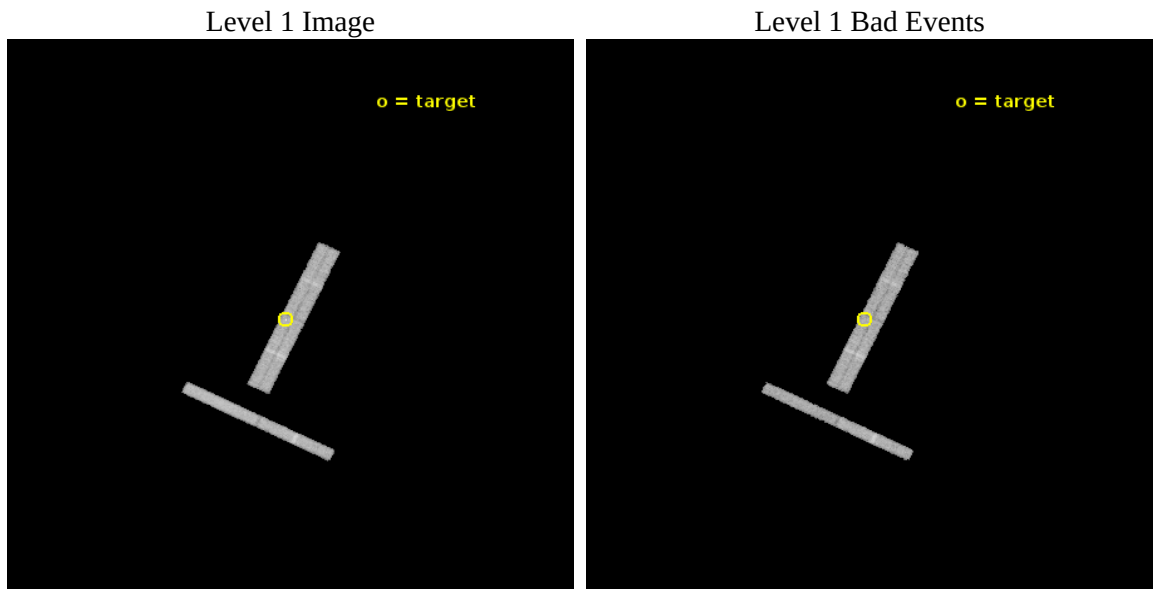
seq_num	401659	Sequence number
obs_id	16737	Observation id
title	Looking for evidence of a pulsar wind nebula or a gamma-ray binary associated with the TeV source HESS J1832-093	Proposal title
observer	Dr Helene Laffon	Principal investigator
object	XMMU J183245-0921539	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.1875	Observer's specified target RA [deg]
dec_targ	-9.364972	Observer's specified target Dec [deg]
ra_nom	278.18027651626	Nominal RA [deg]
dec_nom	-9.3720498830108	Nominal Dec [deg]
roll_nom	205.77598985236	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19091.930283666	Sum of GTIs [s]
livetime	18160.306557277	Livetime [s]
ontime0	19091.807163715	Sum of GTIs [s]
ontime1	19091.848203659	Sum of GTIs [s]
ontime2	19091.889243722	Sum of GTIs [s]
ontime3	19091.930283666	Sum of GTIs [s]
ontime6	19091.998862028	Sum of GTIs [s]
ontime7	19091.971323729	Sum of GTIs [s]
l2events	16634	Number of level 2 events



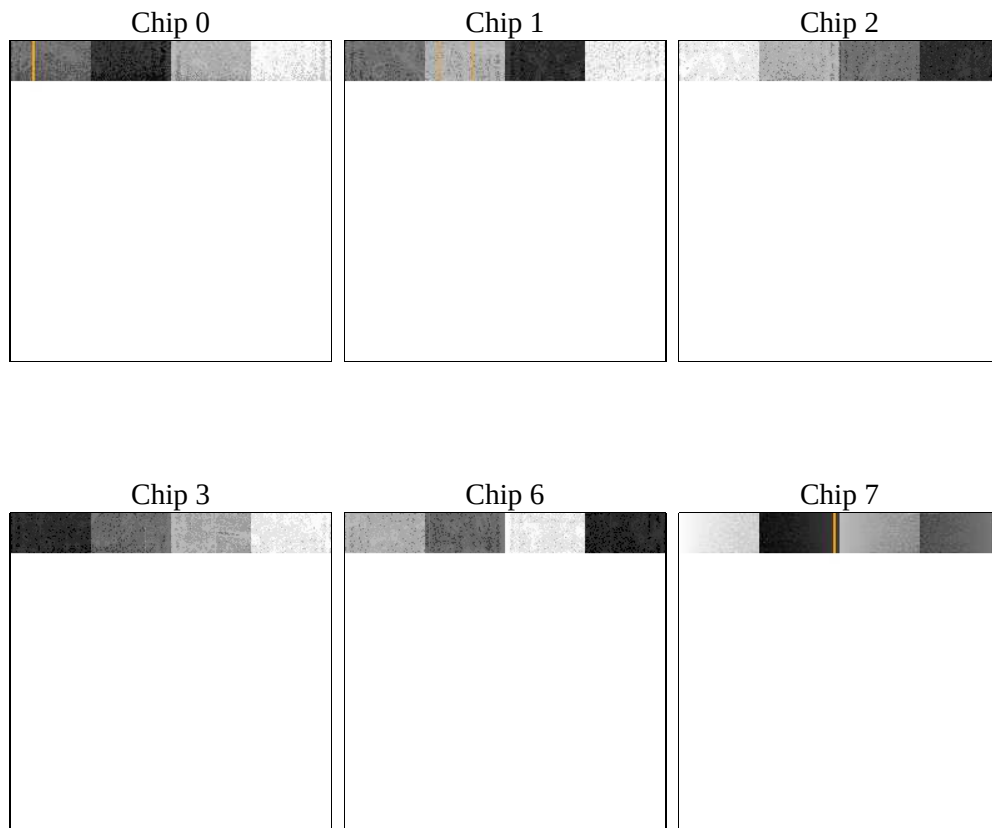
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	19091.930283666	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	19091.807163715	Sum of GTIs [s]
date	2015-07-06T23:10:36	Date and time of file creation	ontime1	19091.848203659	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19091.889243722	Sum of GTIs [s]
			ontime3	19091.930283666	Sum of GTIs [s]
			ontime6	19091.998862028	Sum of GTIs [s]
			ontime7	19091.971323729	Sum of GTIs [s]
			l1events	100377	Number of level 1 events

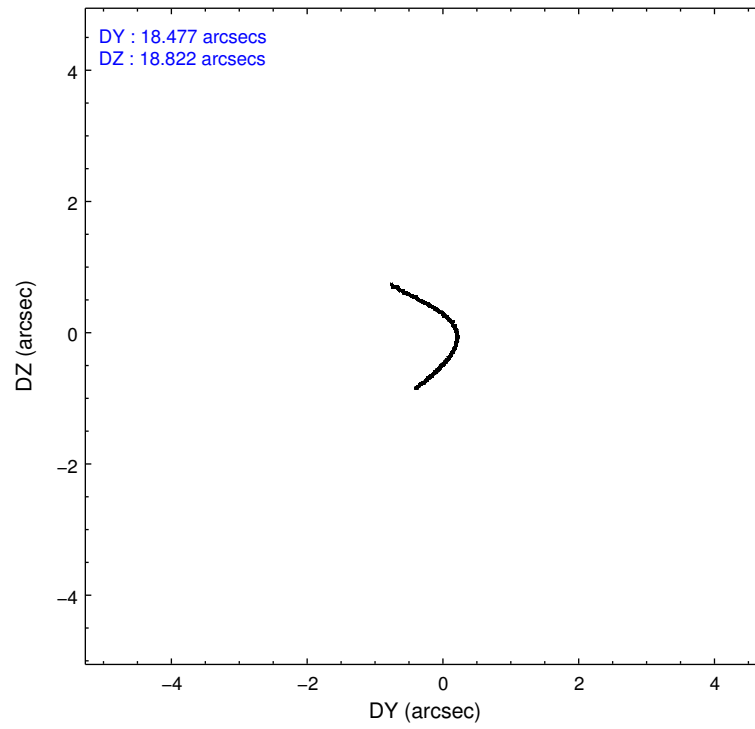
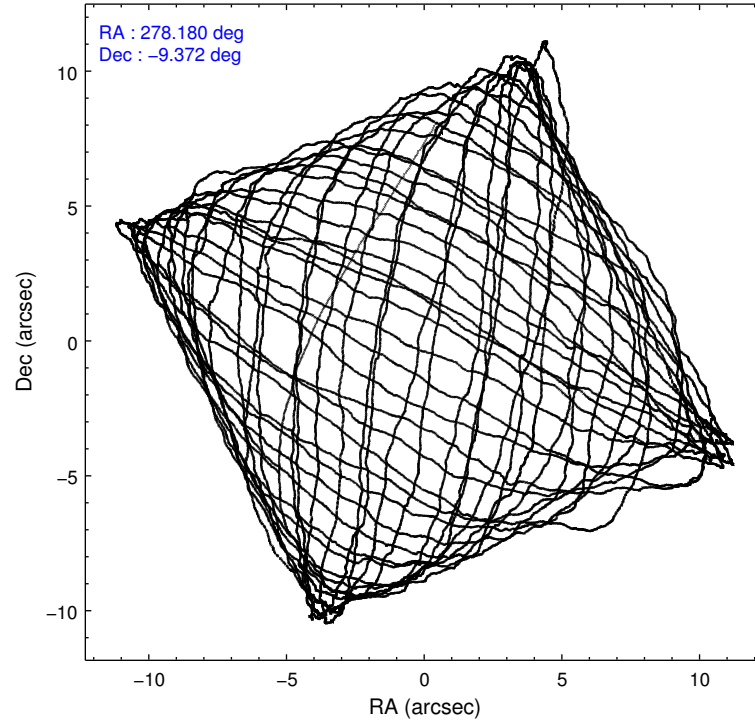
2.1.4 Events

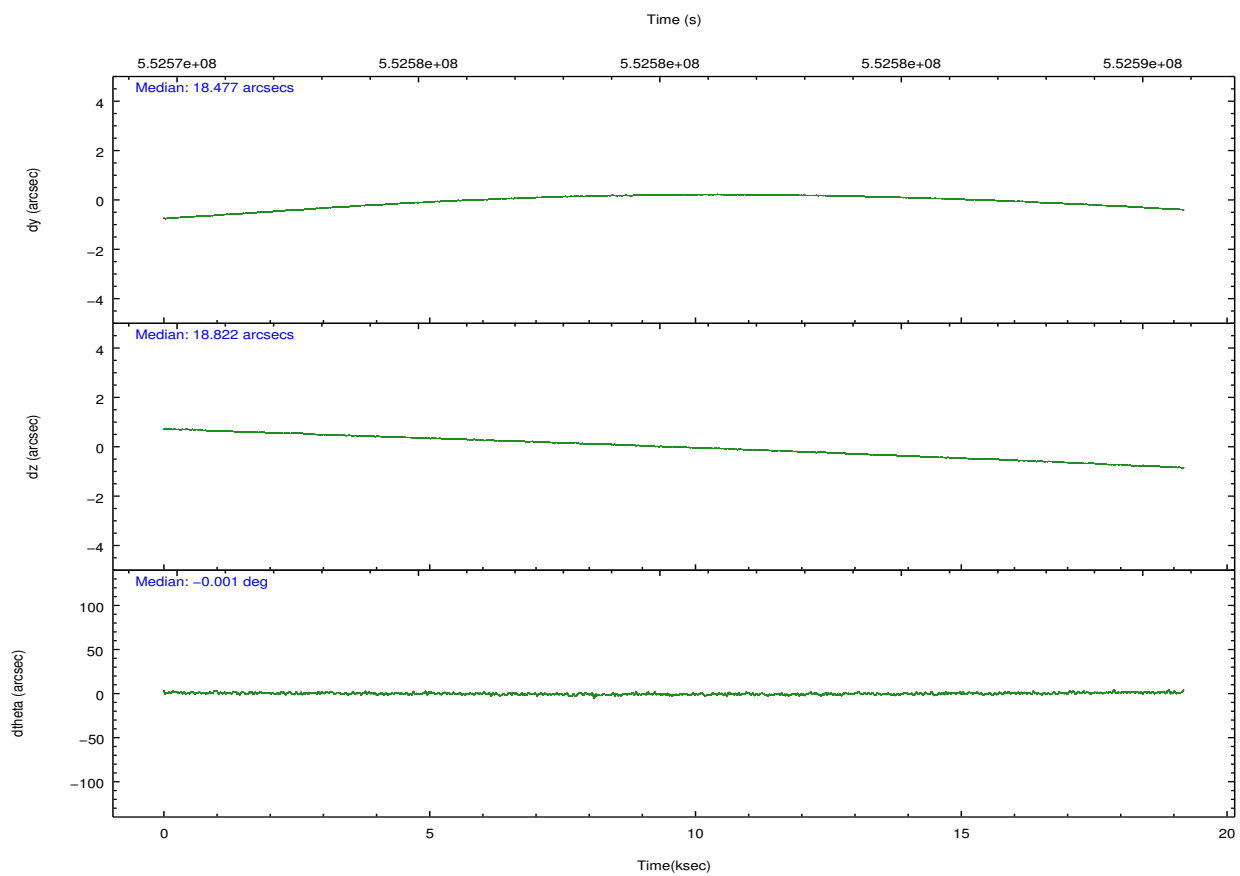
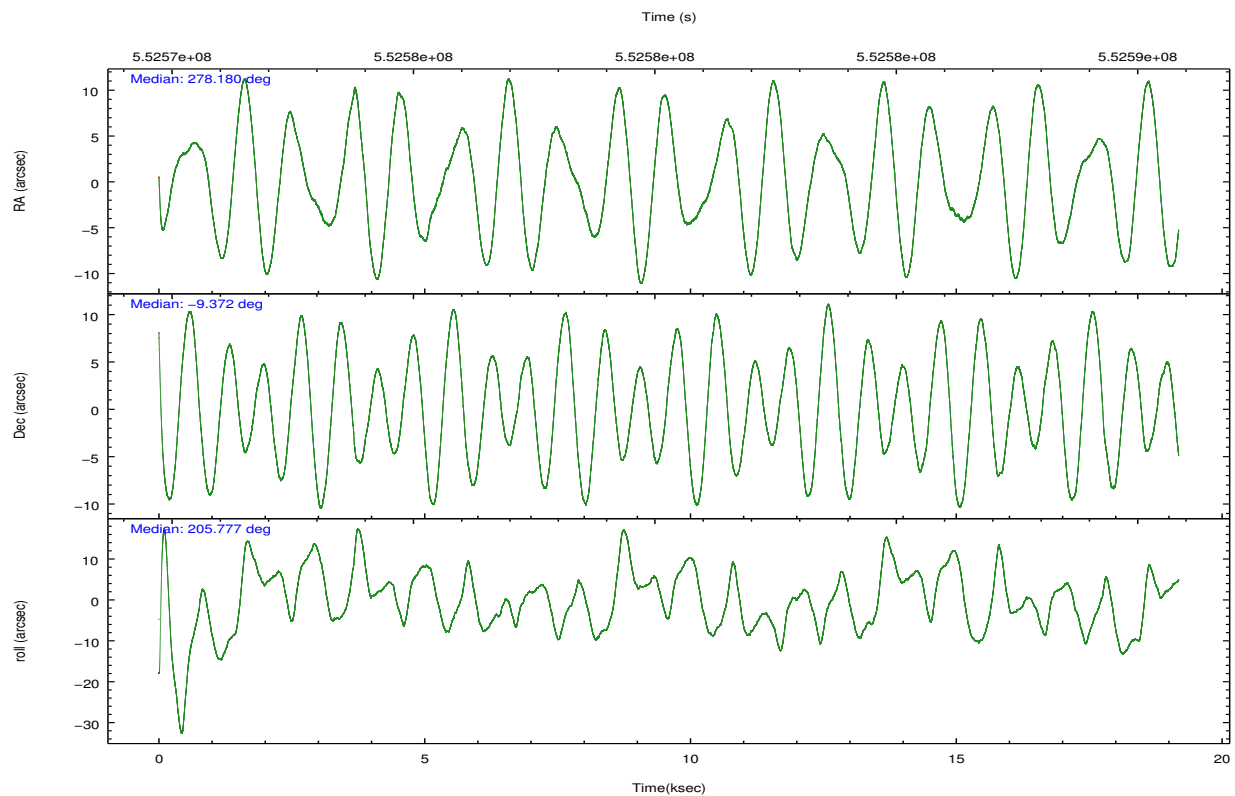
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	14654	14927	16466	16513	17726	20091	grade 0 events	636	646	661	1002	608	893
rejected events	12657	12760	14494	14132	15723	11581		4%	4%	4%	6%	3%	4%
rejected %	86%	85%	88%	85%	88%	57%	grade 1 events	16	16	25	27	28	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	375	422	374	464	366	1784
								2%	2%	2%	2%	2%	8%
							grade 3 events	335	335	284	281	301	913
								2%	2%	1%	1%	1%	4%
							grade 4 events	297	301	301	283	309	890
								2%	2%	1%	1%	1%	4%
							grade 5 events	712	726	675	847	865	2217
								4%	4%	4%	5%	4%	11%
							grade 6 events	354	463	352	352	419	4030
								2%	3%	2%	2%	2%	20%
							grade 7 events	11929	12018	13794	13257	14830	9305
								81%	80%	83%	80%	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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	278.195940	278.1802765162617	CCD I2 on	Y	Y
[deg] Pointing Dec	-9.349165	-9.372049883010753	CCD I3 on	Y	Y
[deg] Pointing Roll	205.569883	205.7759898523555	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)	552570873.184000	552569755.09181	CCD S5 on	N	N
Observation start date	2015-07-06T11:53:25	2015-07-06T11:35:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	552589873.184000	552590560.03048	On-chip summing requested	N	N
Observation end date	2015-07-06T17:10:05	2015-07-06T17:22:40	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	897	897
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.8

2.3 Aspect



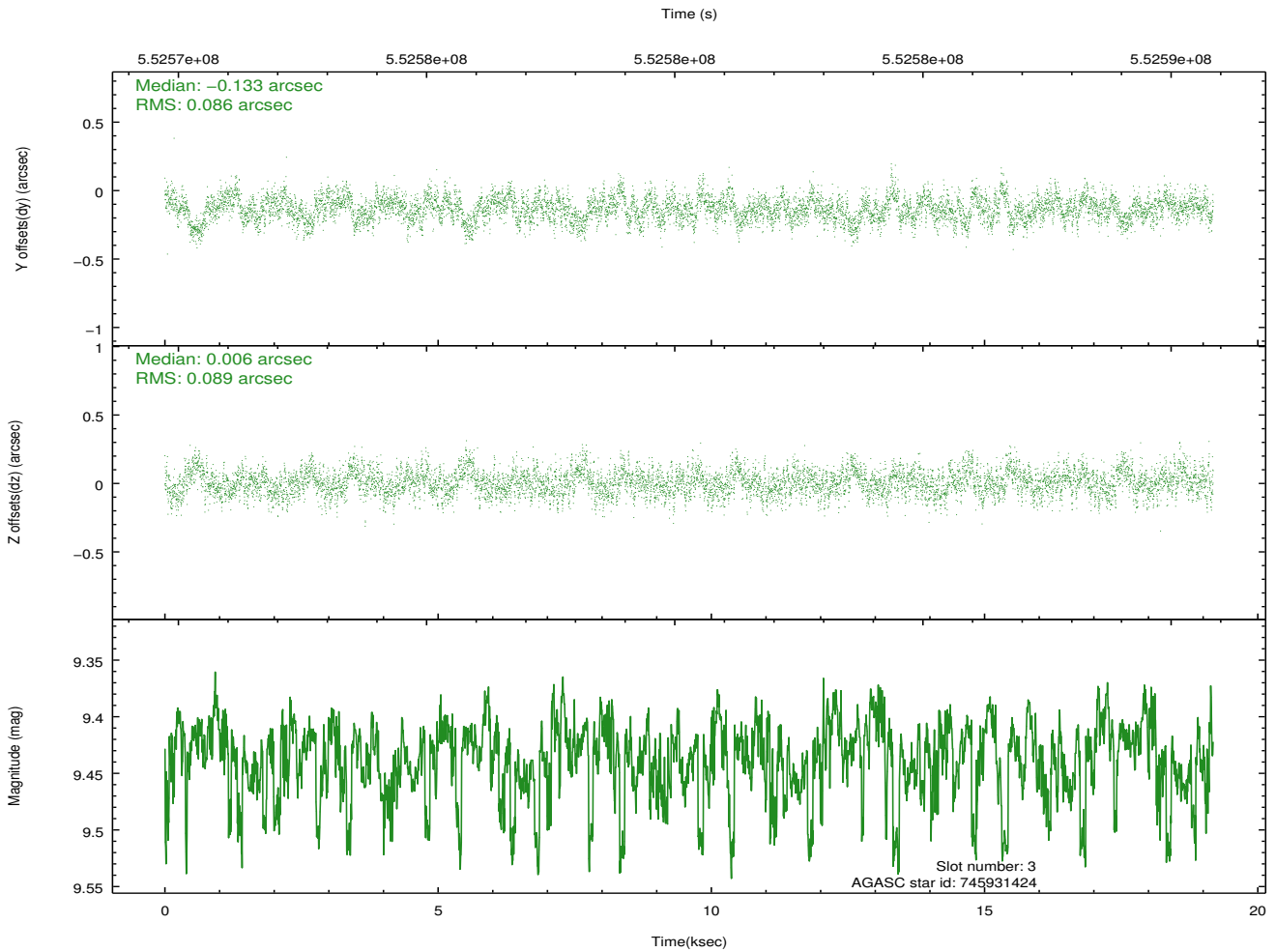
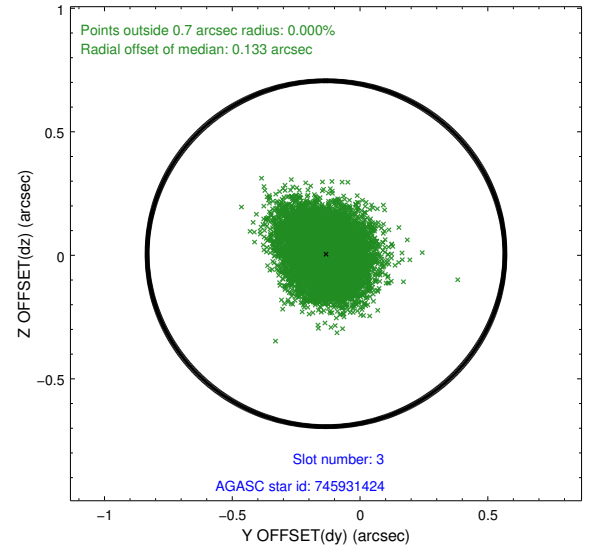
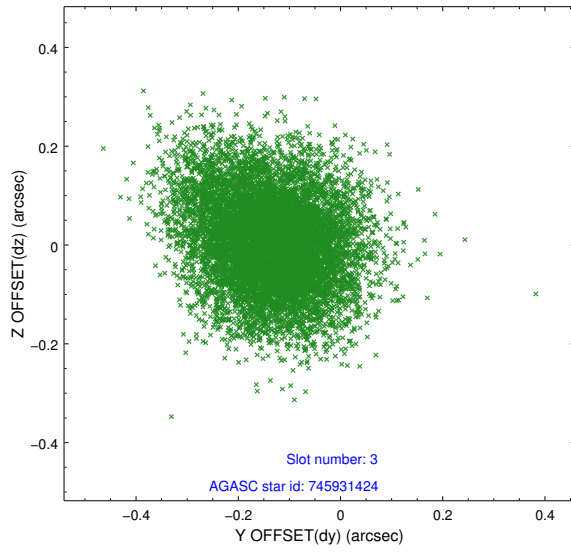


Slot Statistics

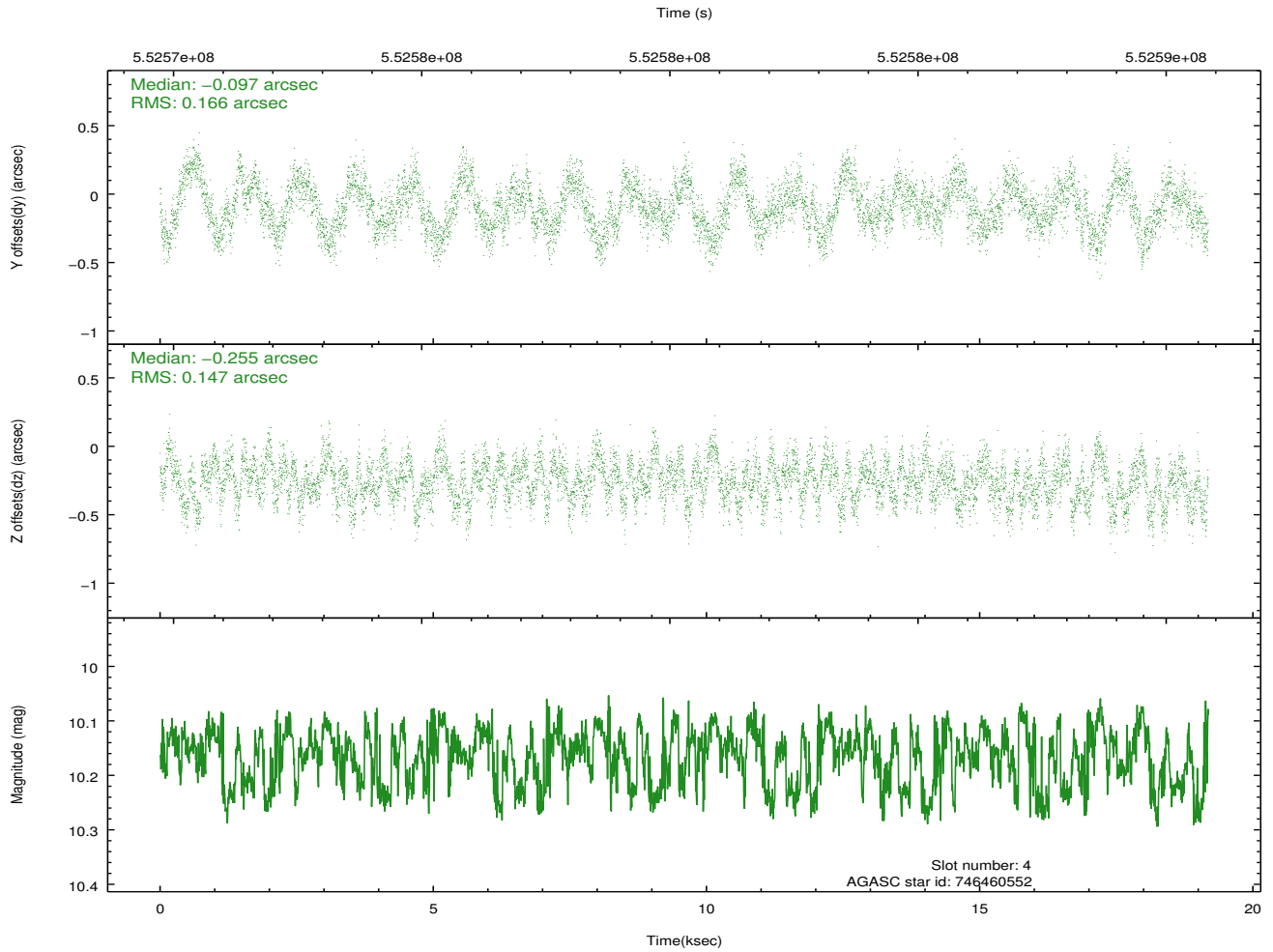
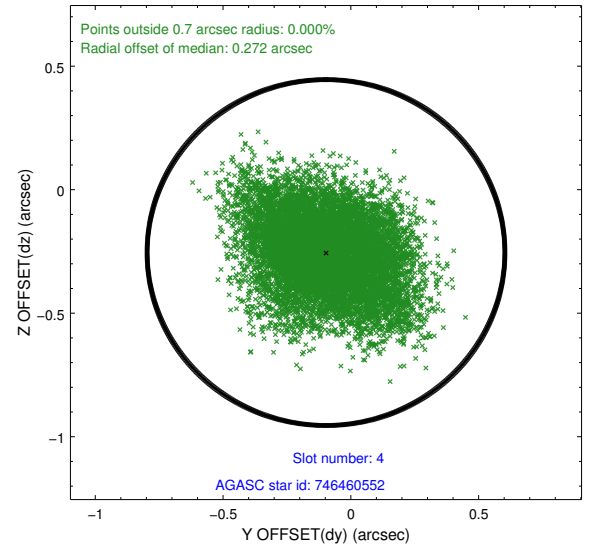
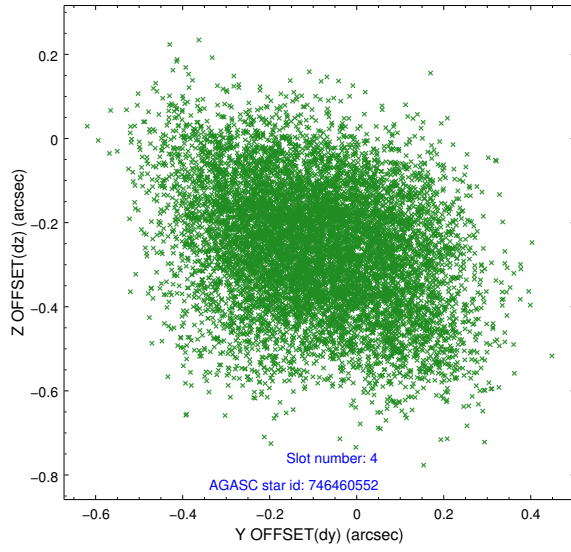
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.08	4680	-0.060	0.034	0.011	0.017	0.000000	0.000000	920.88	-842.48
1	FID		ACIS-I-2	6.99	4680	-0.228	-0.129	0.015	0.025	0.000000	0.000000	-773.26	-849.15
2	FID		ACIS-I-4	7.02	4679	0.187	0.162	0.015	0.024	0.000000	0.000000	2140.97	1057.32
3	GUIDE	used	745931424	9.43	9354	-0.133	0.006	0.132	0.213	277.981180	-9.051257	226.38	-1296.42
4	GUIDE	used	746460552	10.16	9331	-0.097	-0.255	0.238	0.383	277.919390	-9.521528	1154.21	136.21
5	GUIDE	used	746460752	8.67	9355	0.116	0.251	0.135	0.225	278.807572	-9.403686	-1873.17	1117.02
6	GUIDE	used	746338440	9.63	9160	-0.056	0.227	0.254	0.410	277.545963	-9.496982	2312.75	-513.44
7	GUIDE	used	745932928	9.33	9353	0.170	-0.236	0.158	0.252	278.034432	-8.686351	-510.41	-2400.33

2.4 Star Slots

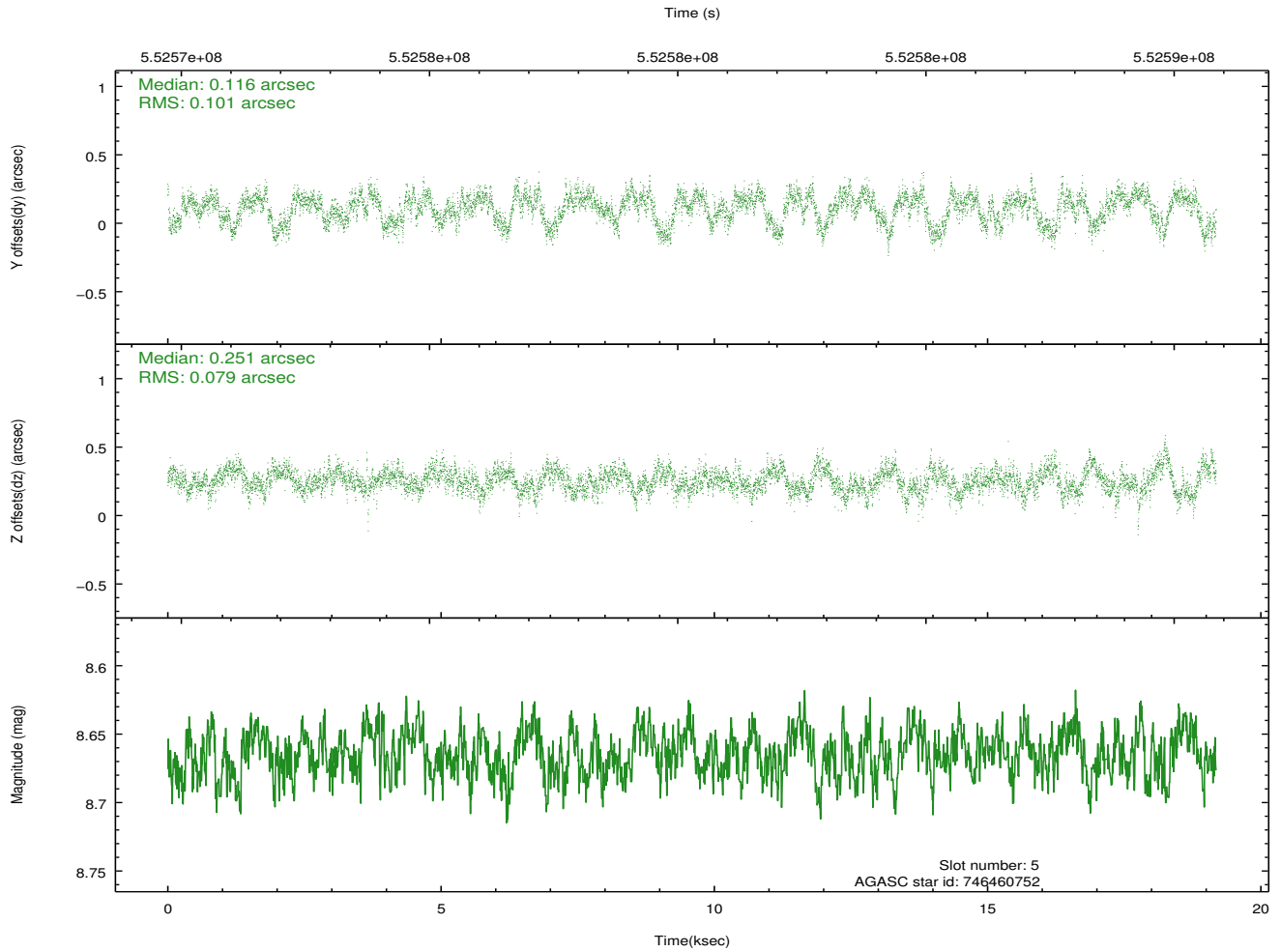
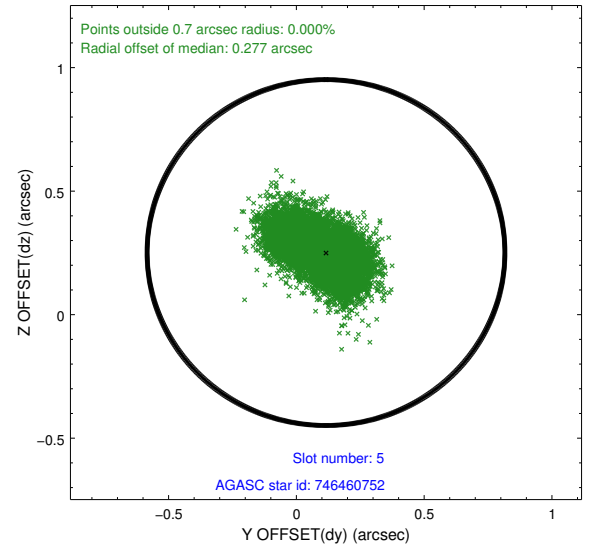
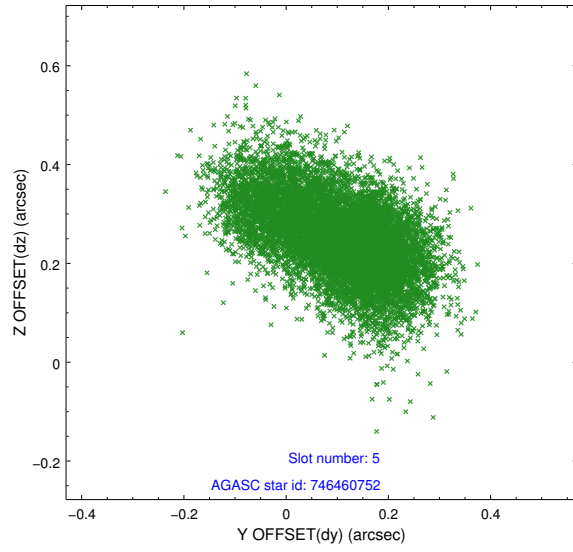
2.4.1 Slot 3



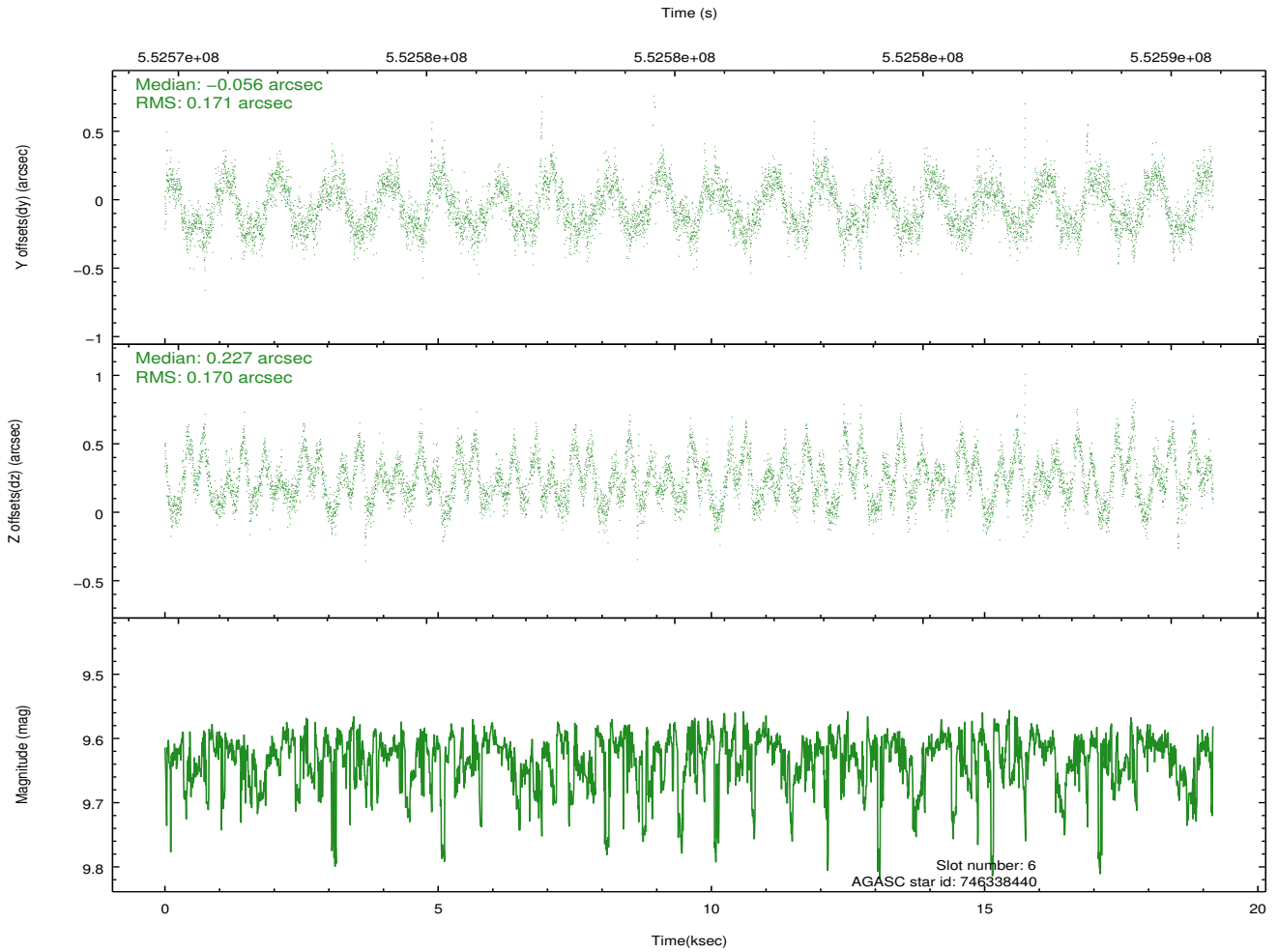
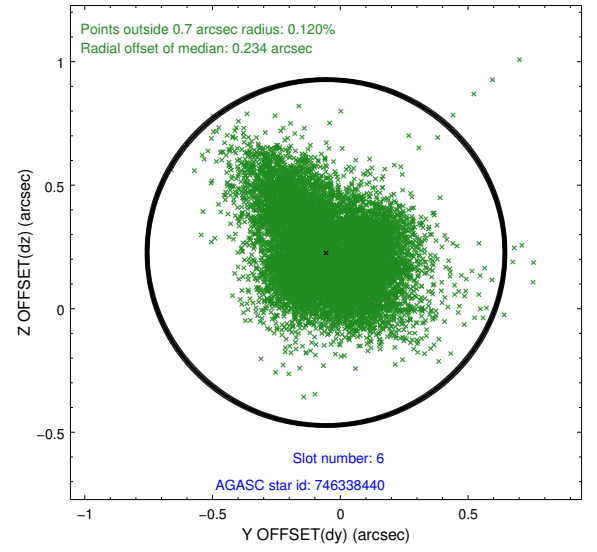
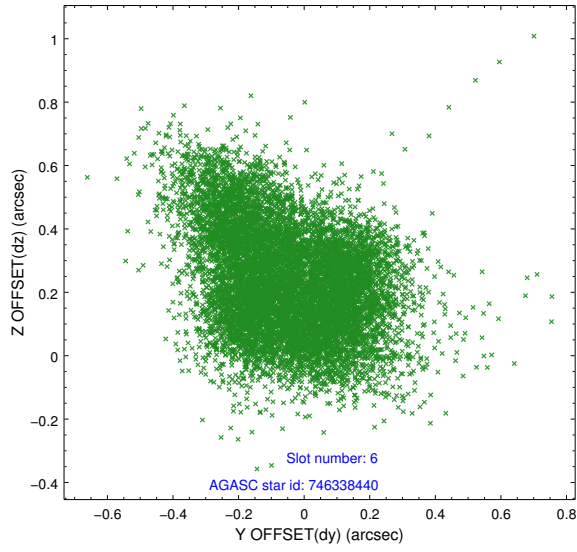
2.4.2 Slot 4



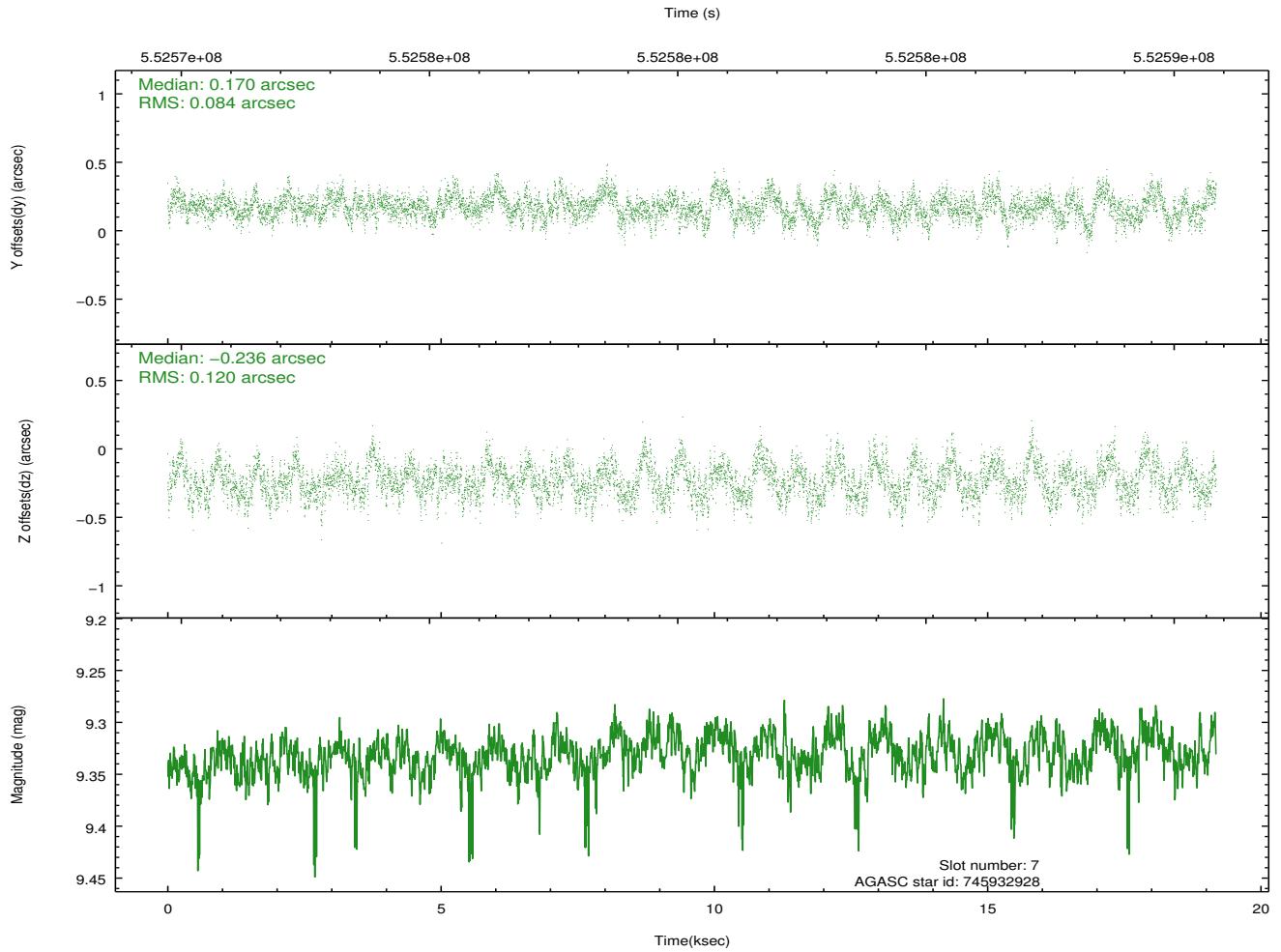
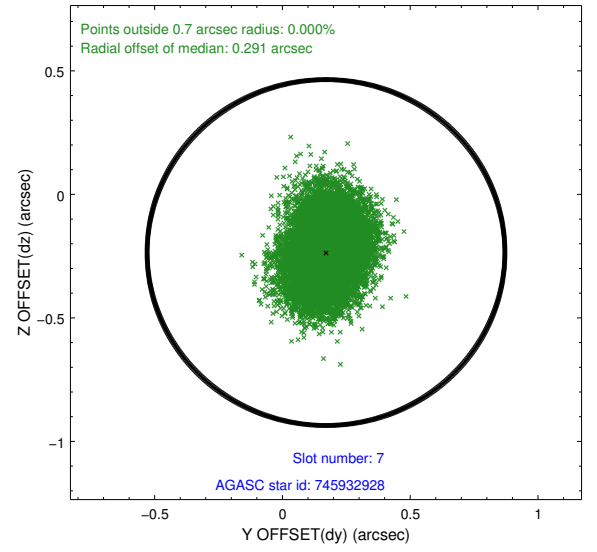
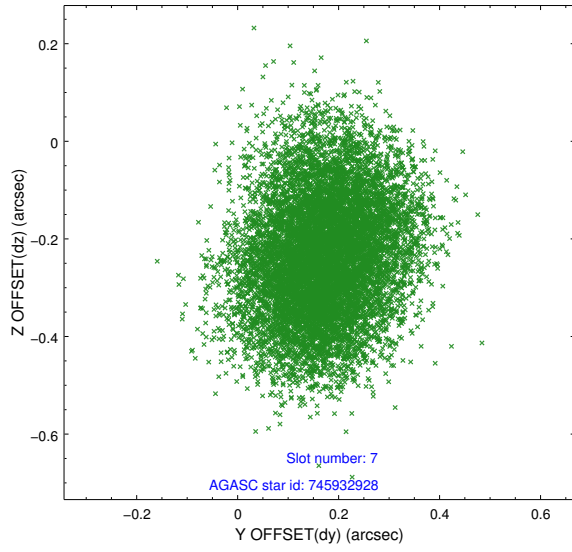
2.4.3 Slot 5



2.4.4 Slot 6

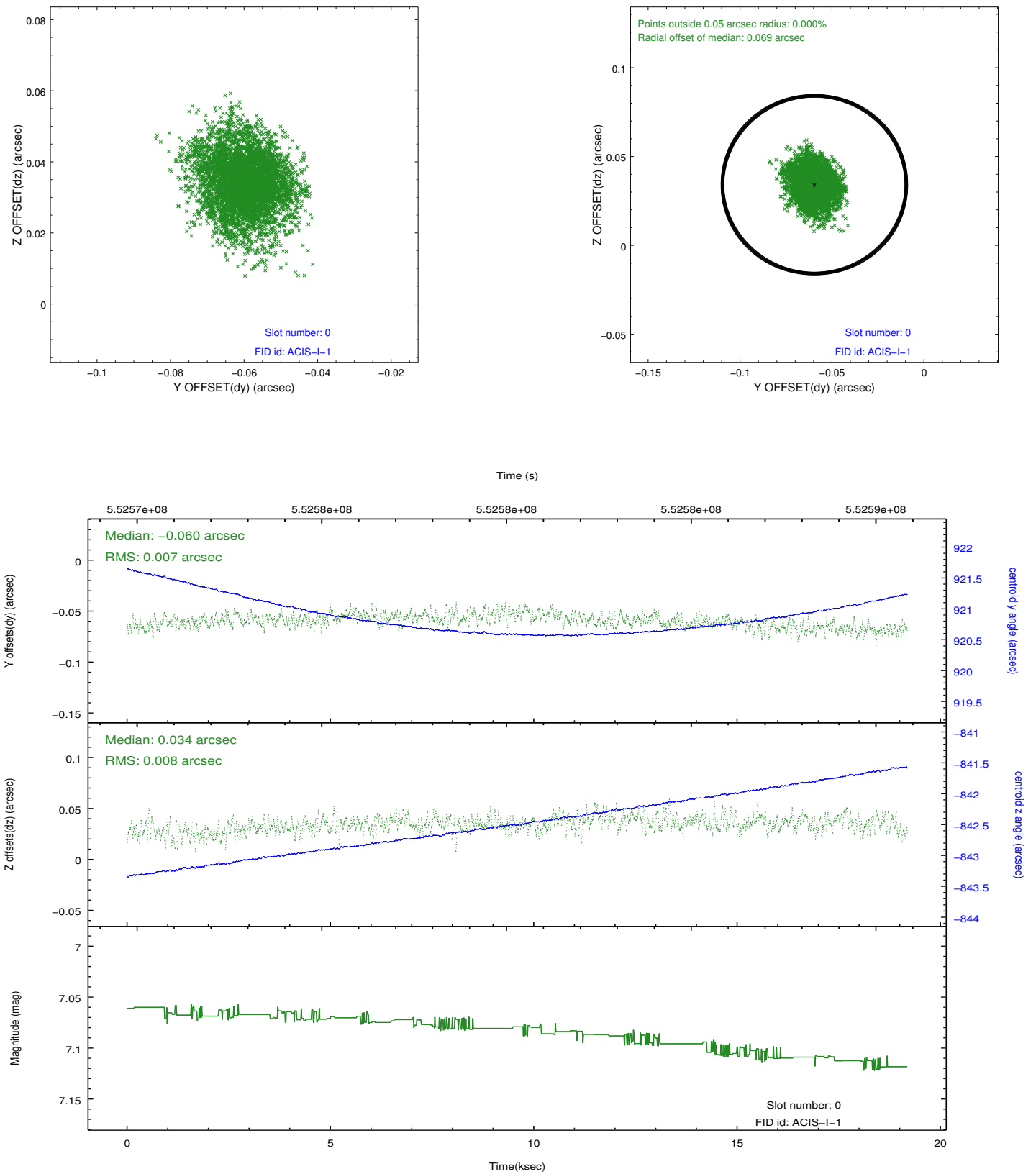


2.4.5 Slot 7

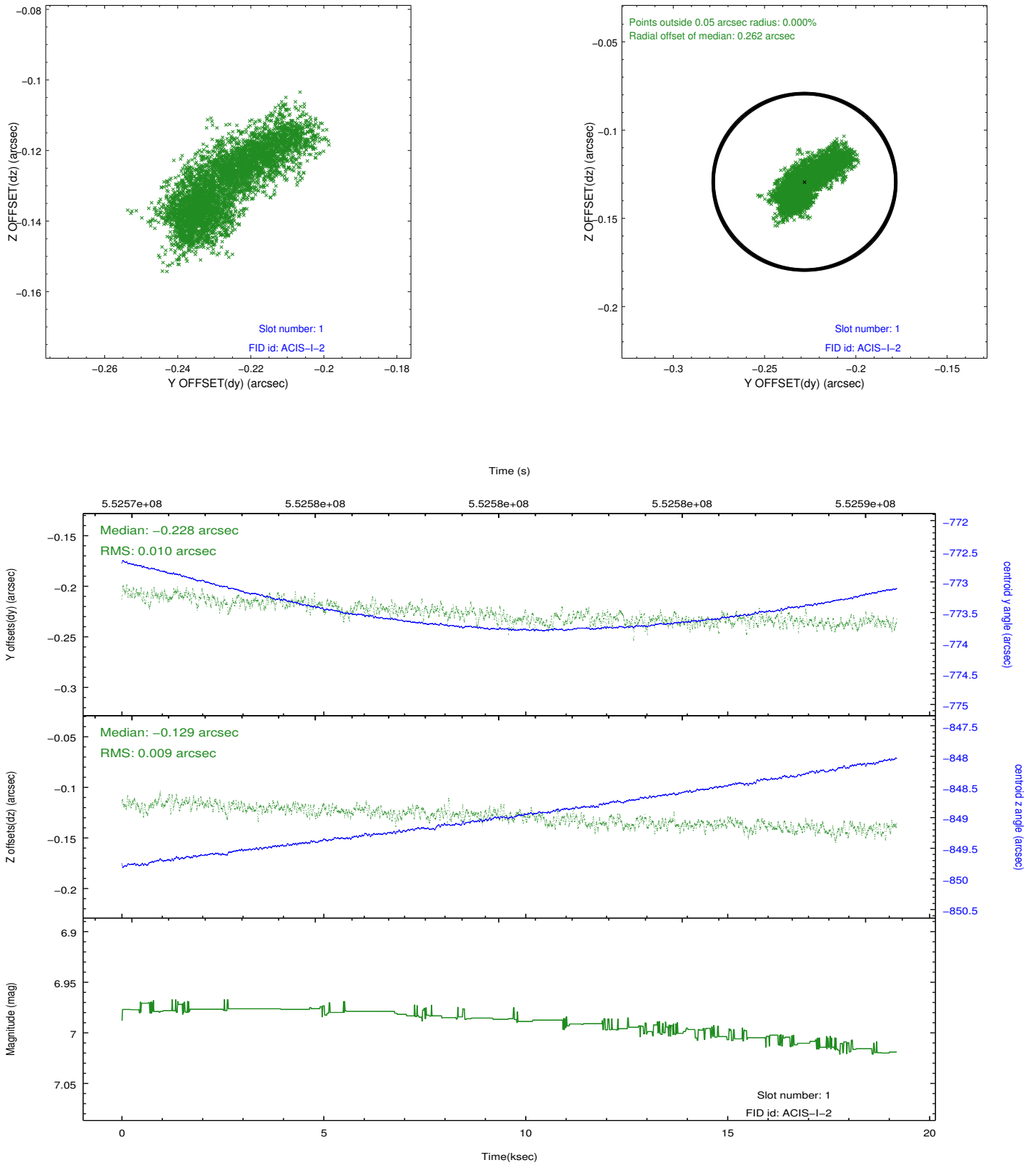


2.5 FID Slots

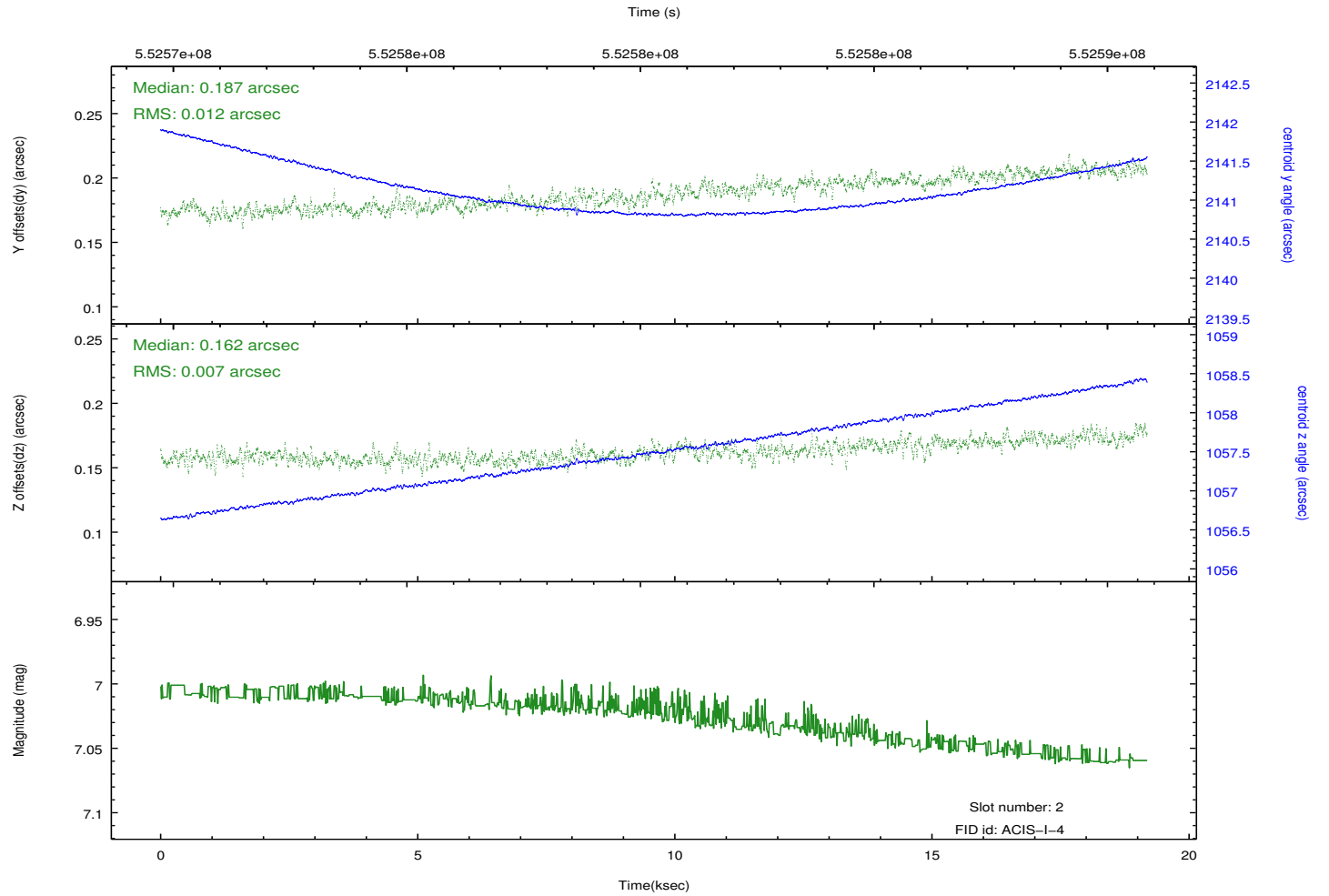
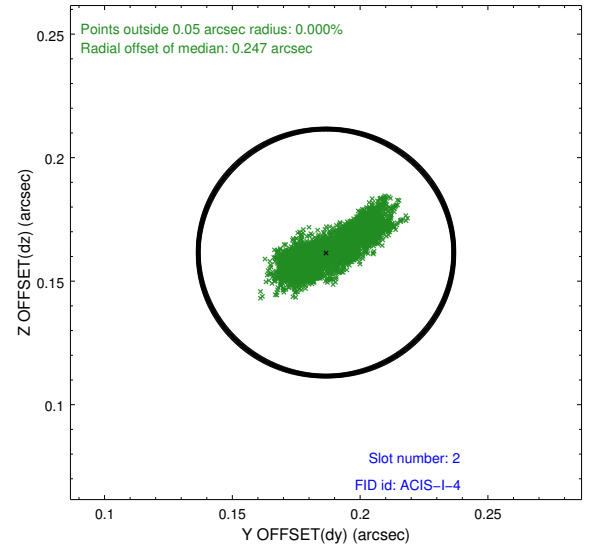
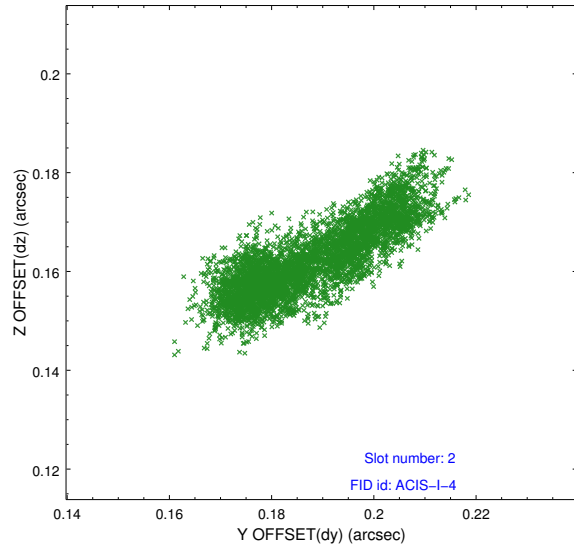
2.5.1 Slot 0



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)	2015.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.091930283666

A.2 Comments