

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17003 - L2 Version 1
Chandra X-Ray Center

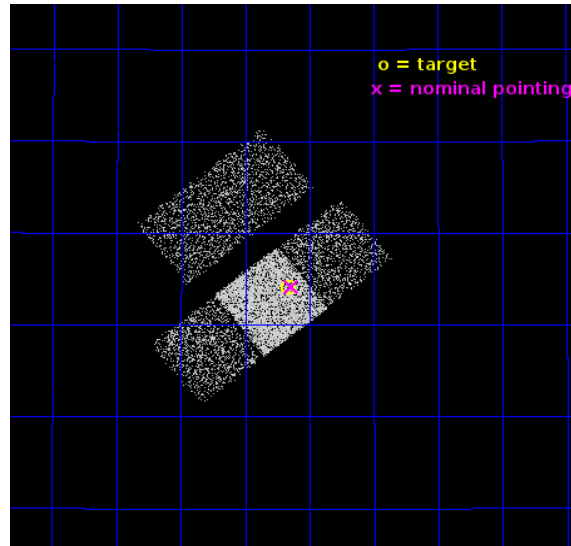
L2 Processing Date : Aug 18 2015

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1 Front

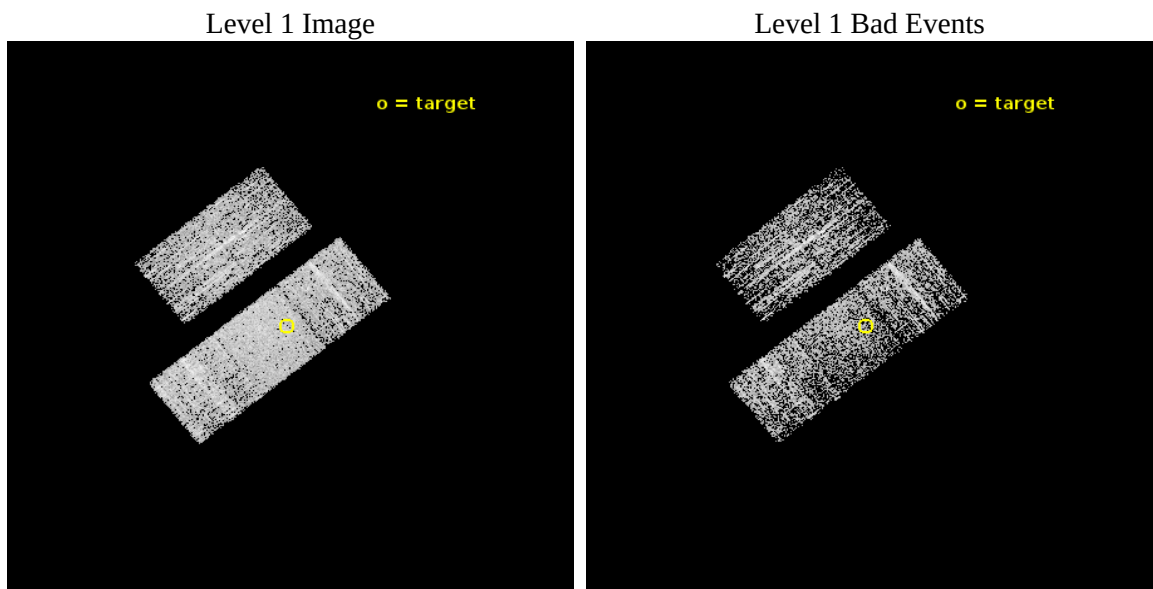
seq_num	601196	Sequence number
obs_id	17003	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC12732	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.166667	Observer's specified target RA [deg]
dec_targ	26.236056	Observer's specified target Dec [deg]
ra_nom	355.16047365347	Nominal RA [deg]
dec_nom	26.236113001846	Nominal Dec [deg]
roll_nom	141.38476989606	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2463.1001127958	Sum of GTIs [s]
livetime	2430.9178965142	Livetime [s]
ontime2	2462.9359527826	Sum of GTIs [s]
ontime3	2463.0180327892	Sum of GTIs [s]
ontime6	2463.0590728521	Sum of GTIs [s]
ontime7	2463.1001127958	Sum of GTIs [s]
ontime8	2462.9769928455	Sum of GTIs [s]
l2events	12448	Number of level 2 events



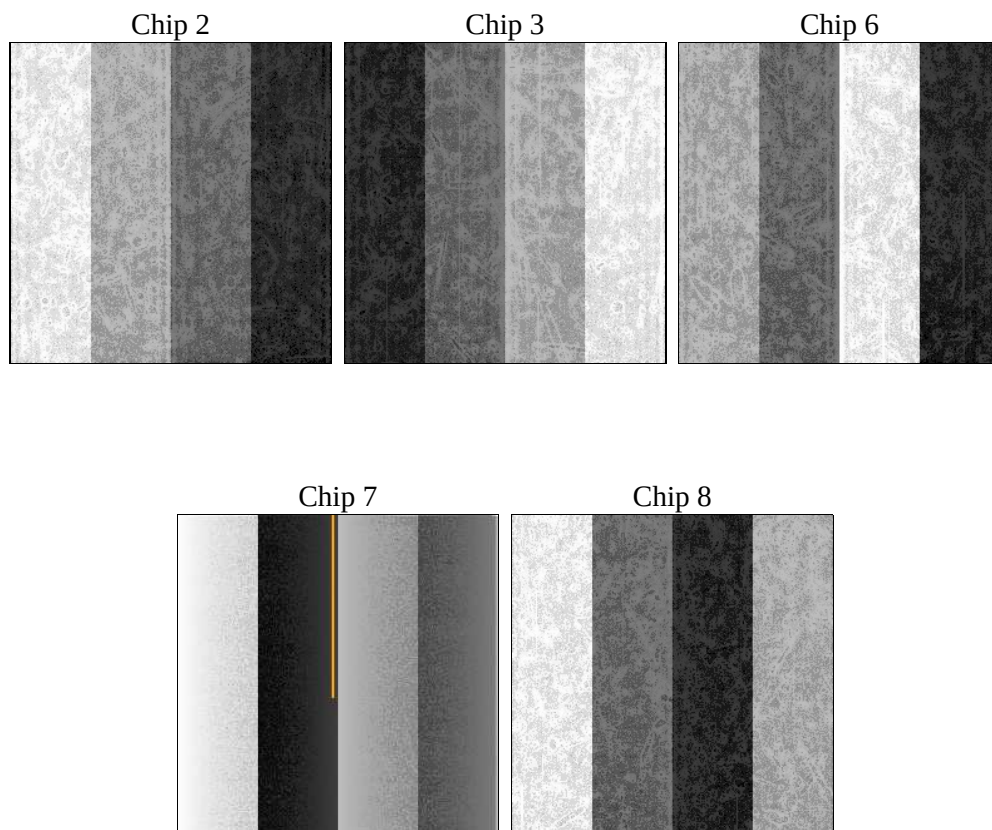
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2400.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	2463.1001127958	Sum of GTIs [s]
caldbver	4.6.8	 	ontime2	2462.9359527826	Sum of GTIs [s]
date	2015-08-18T12:18:21	Date and time of file creation	ontime3	2463.0180327892	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	2463.0590728521	Sum of GTIs [s]
			ontime7	2463.1001127958	Sum of GTIs [s]
			ontime8	2462.9769928455	Sum of GTIs [s]
			l1events	72277	Number of level 1 events

2.1.4 Events

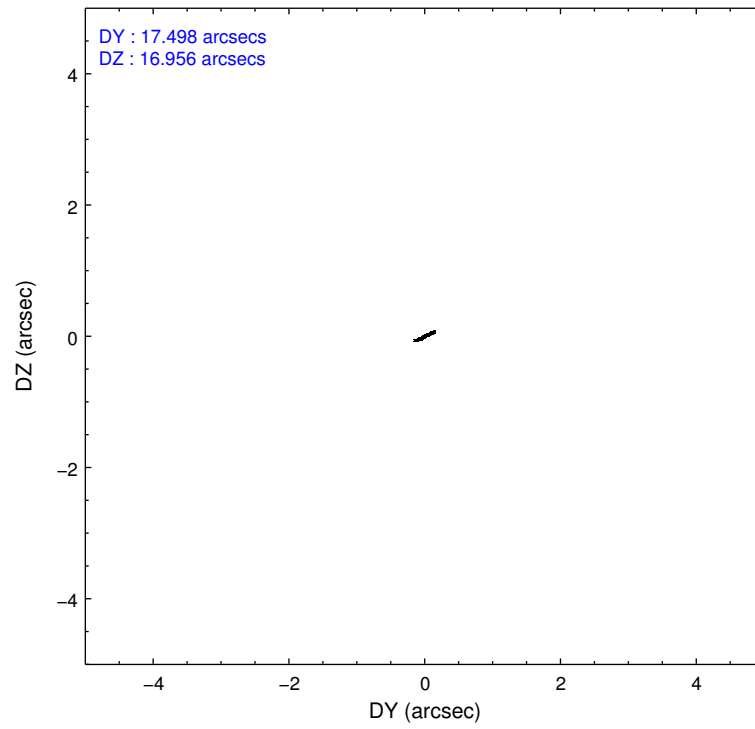
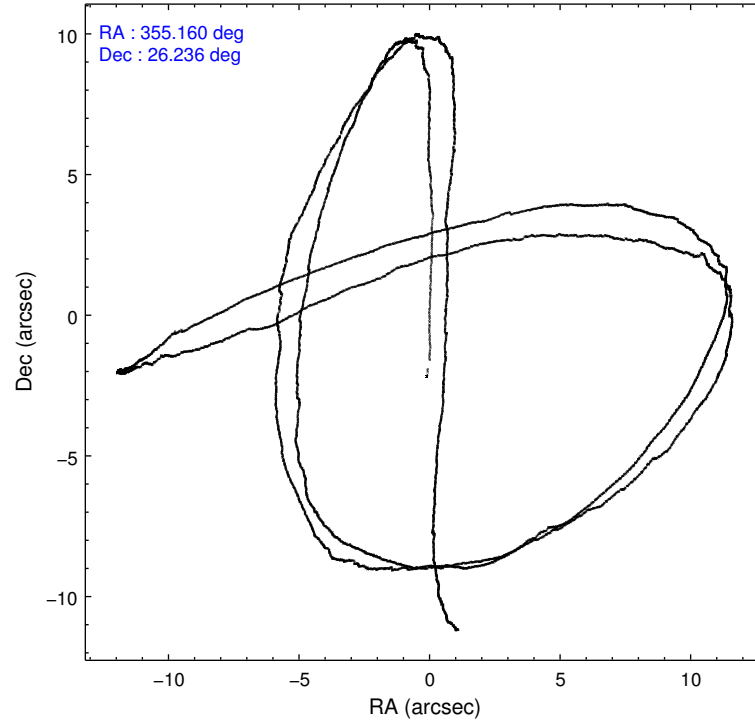
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	11987	13145	13656	17148	16341
rejected events	10532	11779	12017	9926	12552
rejected %	87%	89%	87%	57%	76%

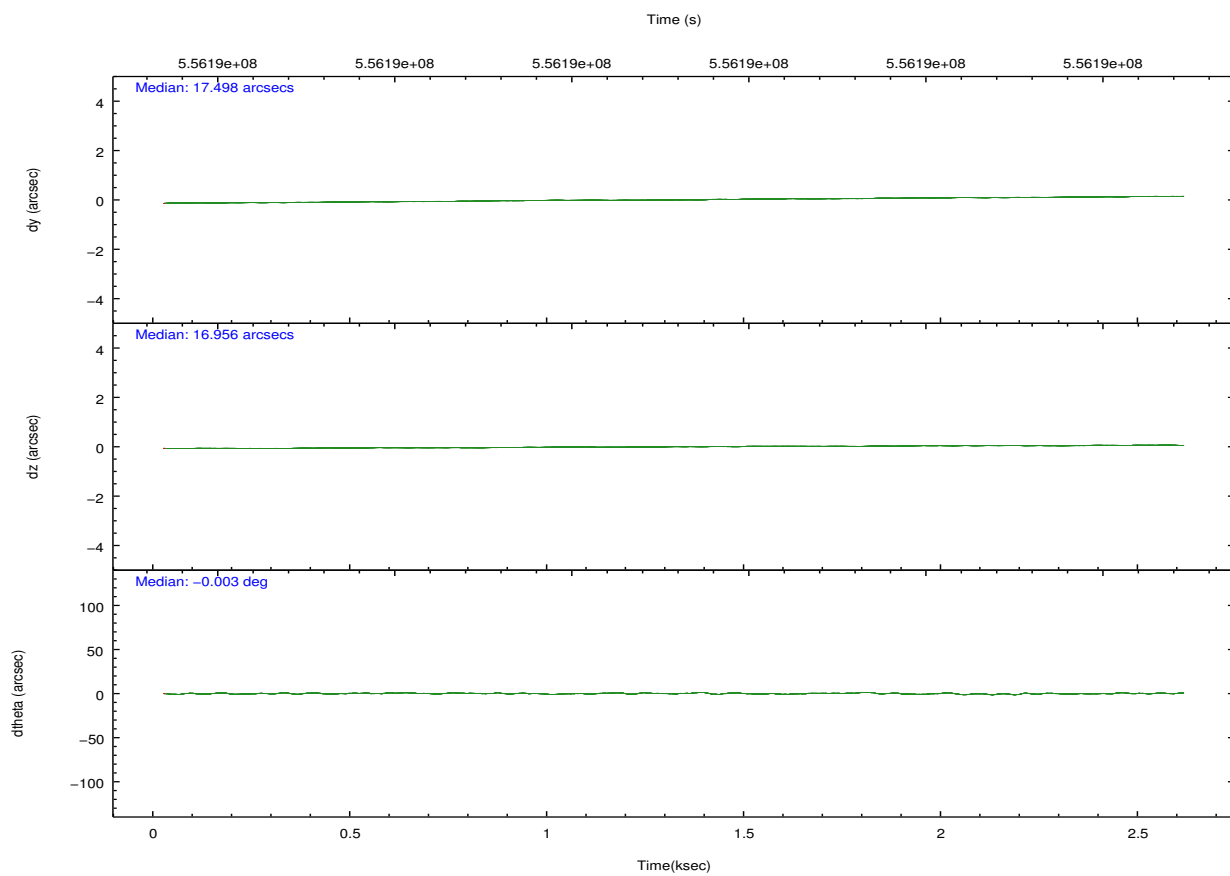
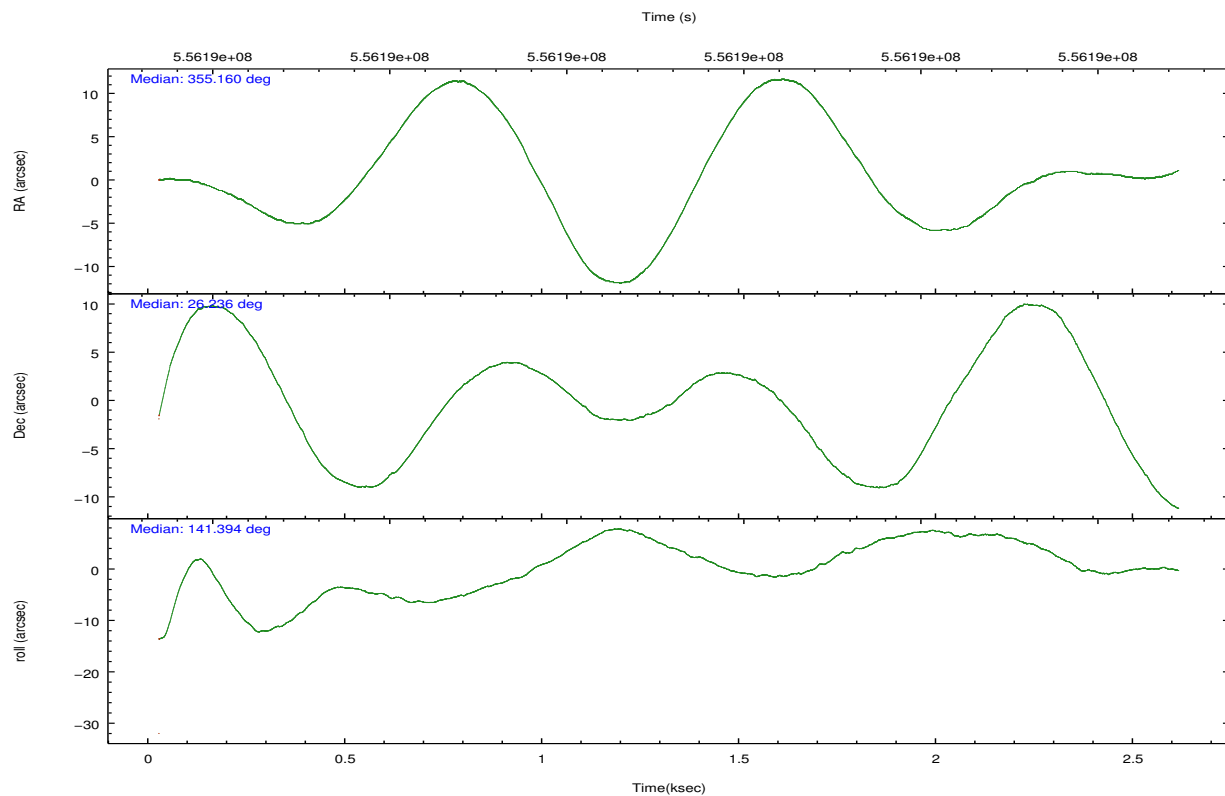
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	540	479	574	614	1114
	4%	3%	4%	3%	6%
grade 1 events	4	8	1	22	10
	0%	0%	0%	0%	0%
grade 2 events	315	301	361	1522	900
	2%	2%	2%	8%	5%
grade 3 events	171	137	164	534	402
	1%	1%	1%	3%	2%
grade 4 events	124	152	148	553	358
	1%	1%	1%	3%	2%
grade 5 events	580	657	670	1697	946
	4%	4%	4%	9%	5%
grade 6 events	307	298	394	4017	1022
	2%	2%	2%	23%	6%
grade 7 events	9946	11113	11344	8189	11589
	82%	84%	83%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	355.190918	355.1604736534704	CCD I2 on	O2	Y
[deg] Pointing Dec	26.232268	26.23611300184569	CCD I3 on	O1	Y
[deg] Pointing Roll	141.214744	141.3847698960643	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	556191194.184000	556189573.03309	CCD S5 on	N	N
Observation start date	2015-08-17T09:32:06	2015-08-17T09:06:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	556193594.184000	556194947.62089	On-chip summing requested	N	N
Observation end date	2015-08-17T10:12:06	2015-08-17T10:35:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



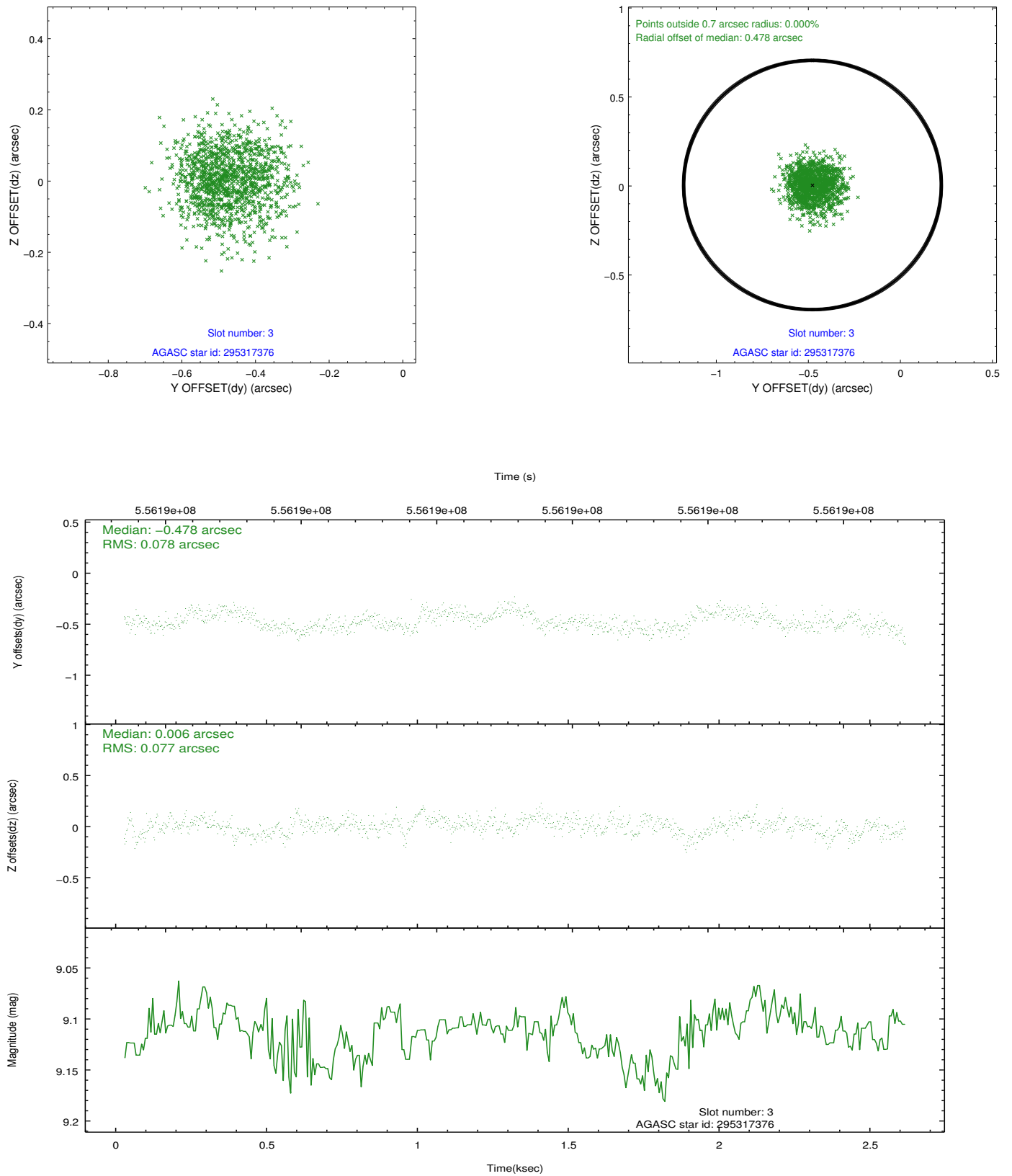


Slot Statistics

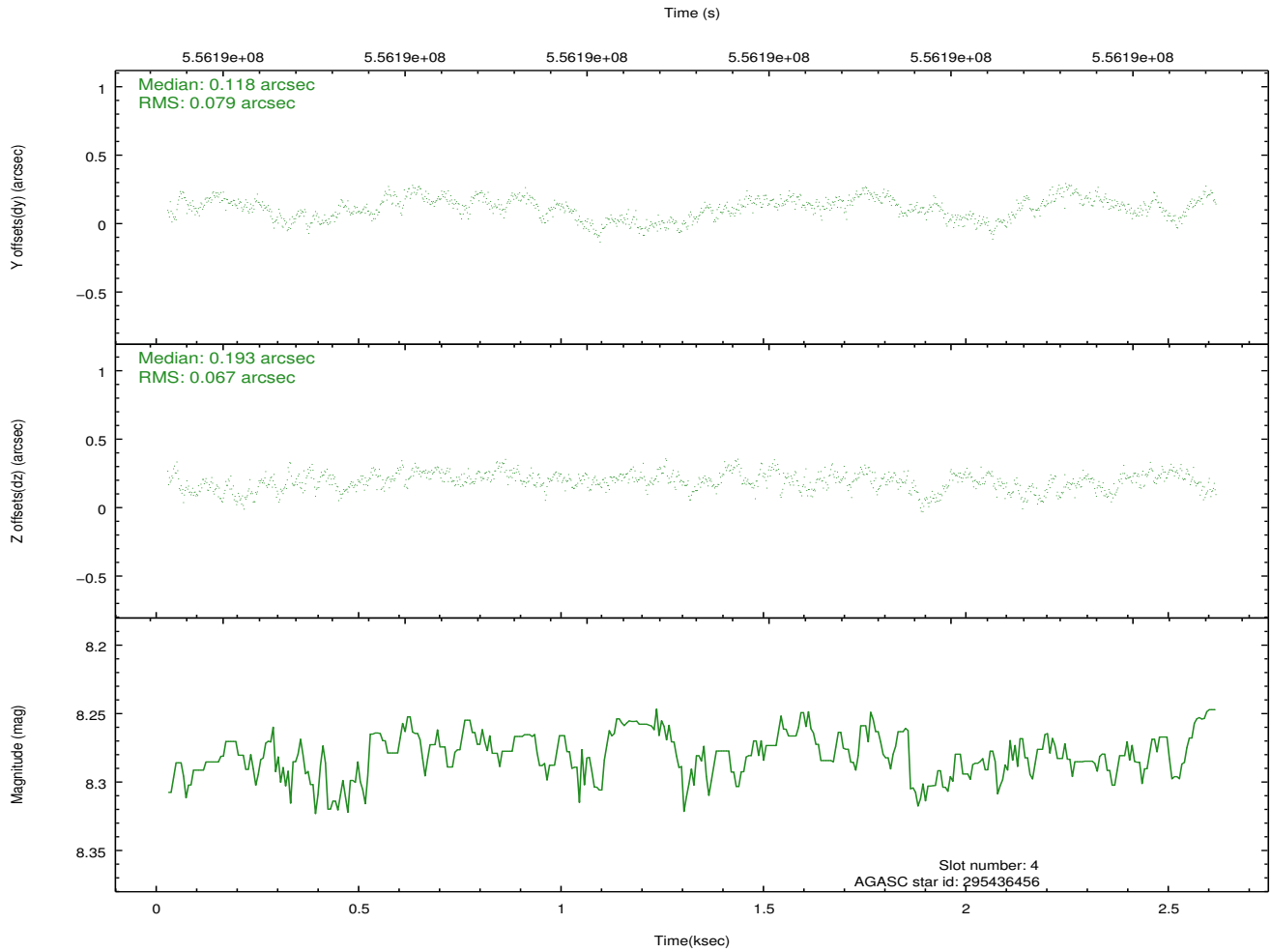
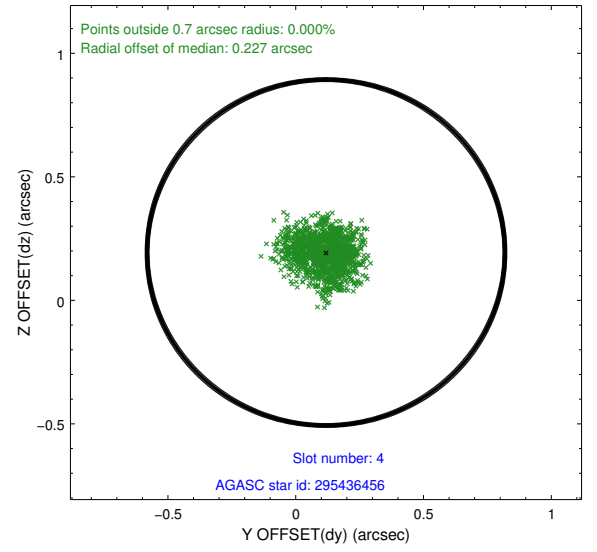
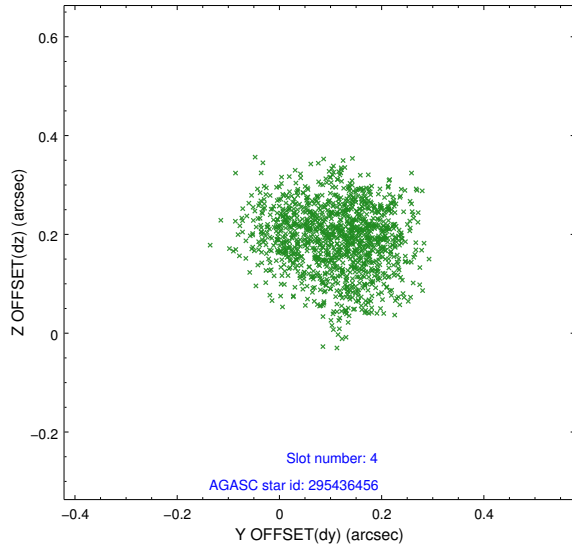
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	632	0.103	-0.026	0.008	0.013	0.000000	0.000000	925.52	-1734.08
1	FID		ACIS-S-2	7.14	632	-0.250	-0.077	0.007	0.012	0.000000	0.000000	-769.36	-1741.19
2	FID		ACIS-S-4	7.21	632	0.122	0.109	0.006	0.010	0.000000	0.000000	2141.71	167.57
3	GUIDE	used	295317376	9.11	1261	-0.478	0.006	0.117	0.187	354.315098	26.192118	2120.11	1877.60
4	GUIDE	used	295436456	8.28	1264	0.118	0.193	0.112	0.171	355.514862	25.885566	-1597.63	316.85
5	GUIDE	used	295441200	8.07	1264	-0.215	-0.090	0.098	0.158	354.700189	25.946288	593.27	1795.58
6	GUIDE	used	295441616	9.42	1263	0.411	0.099	0.122	0.206	355.531093	25.641263	-2192.52	967.70
7	GUIDE	used	295448888	10.27	1257	0.166	-0.214	0.235	0.381	354.861743	25.849416	-34.00	1742.92

2.4 Star Slots

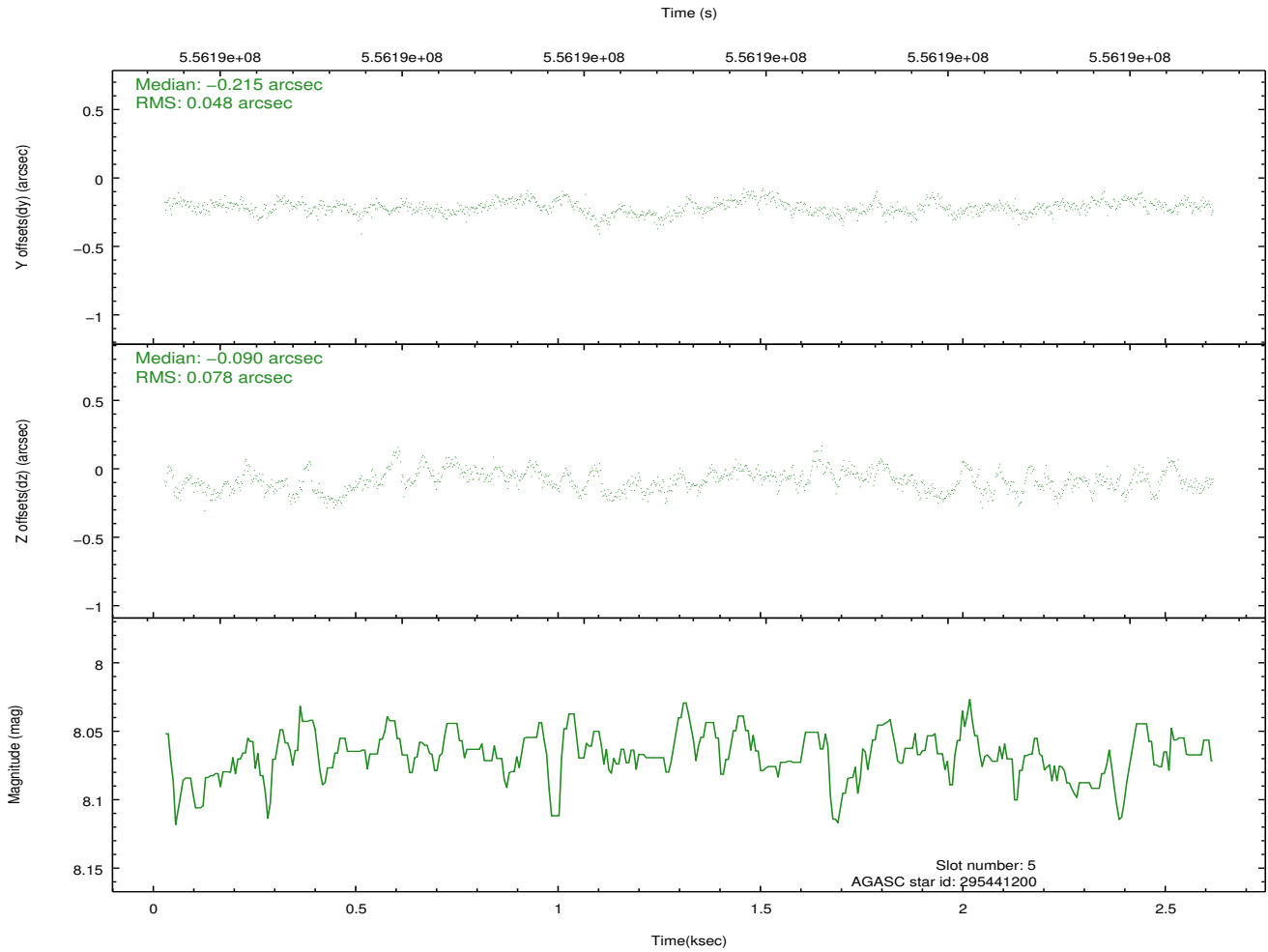
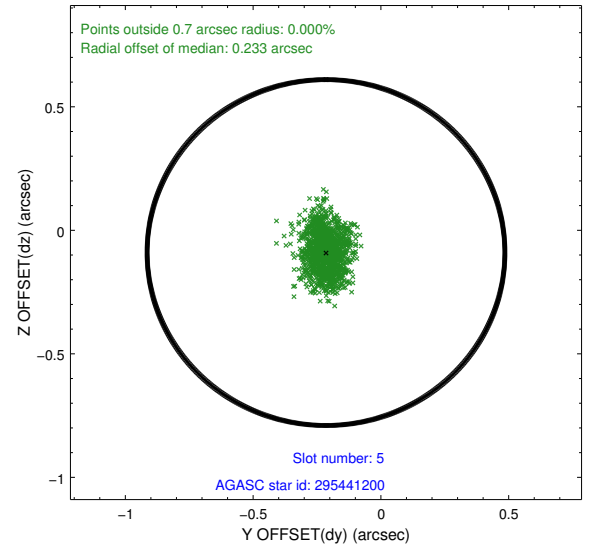
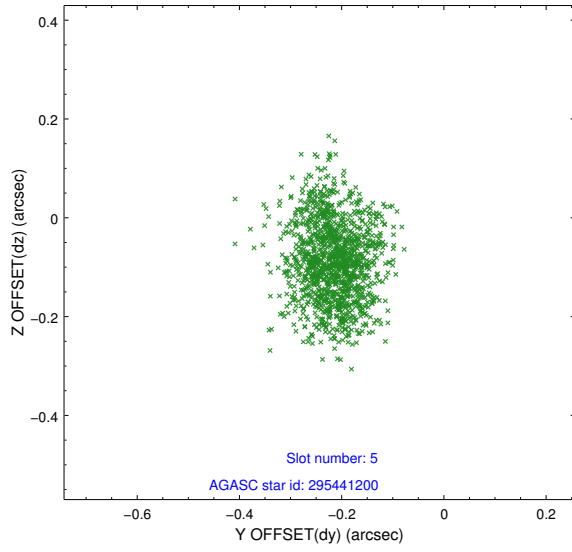
2.4.1 Slot 3



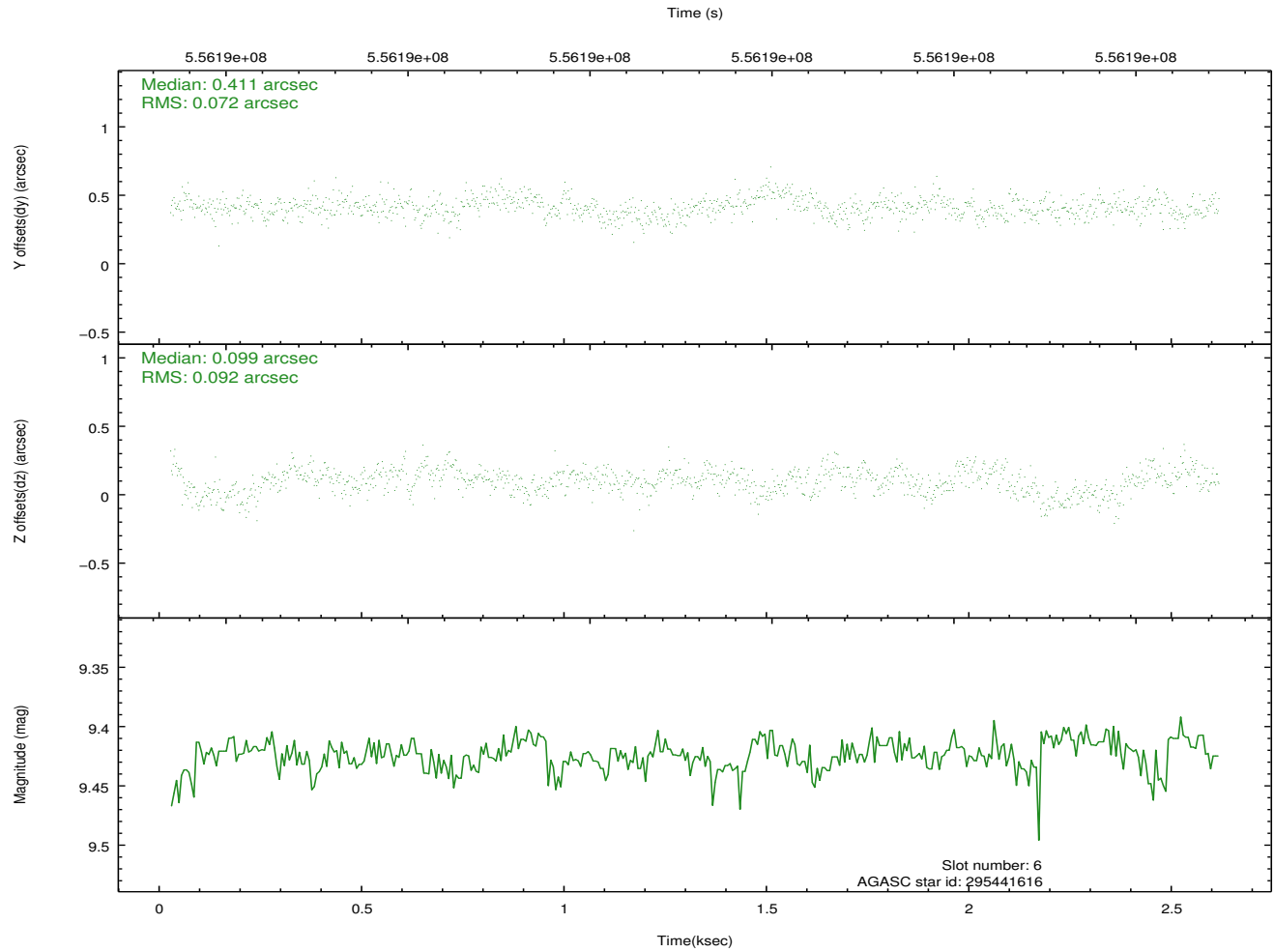
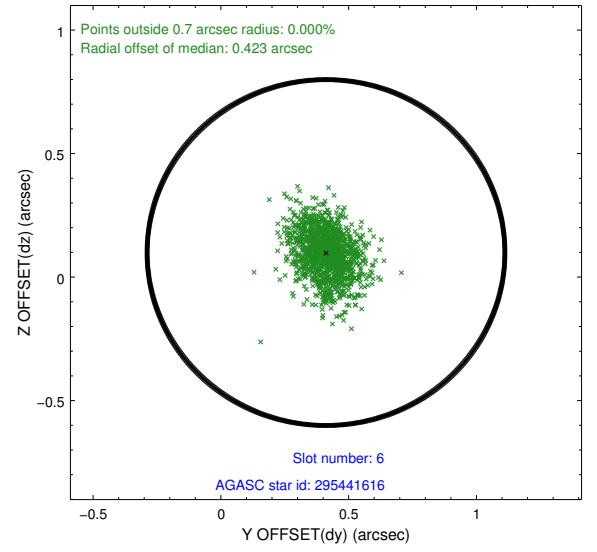
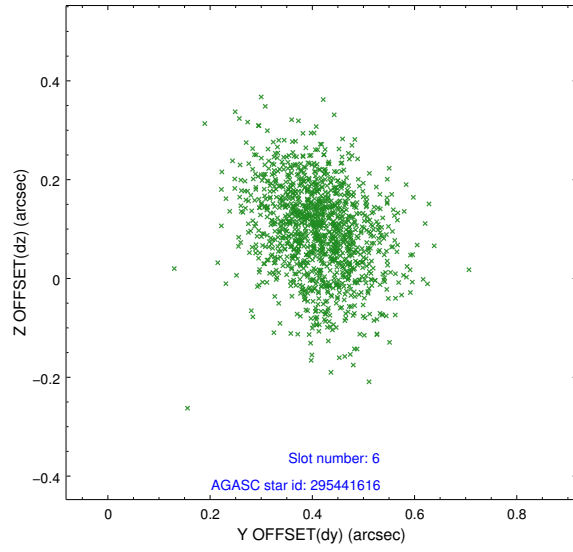
2.4.2 Slot 4



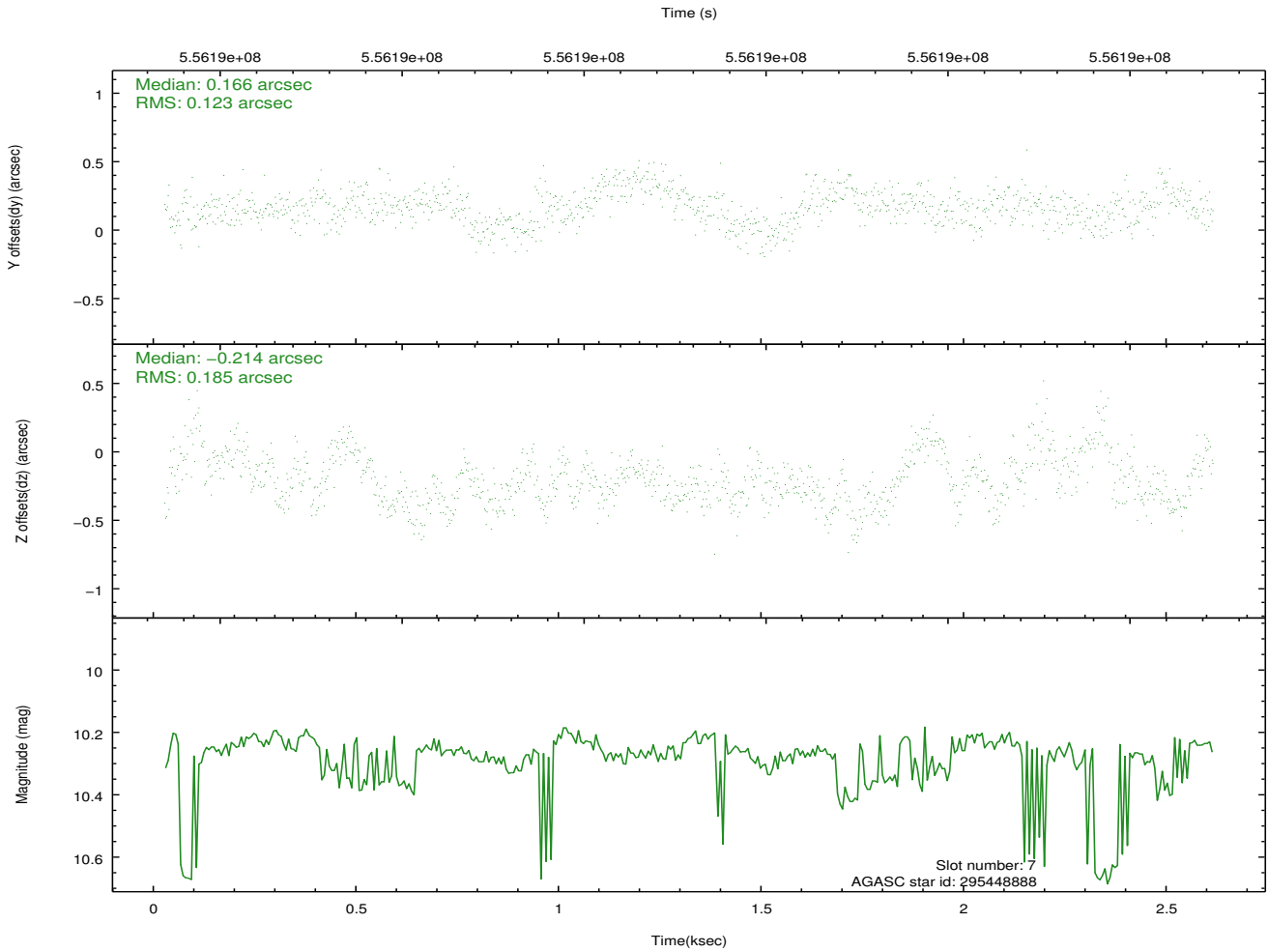
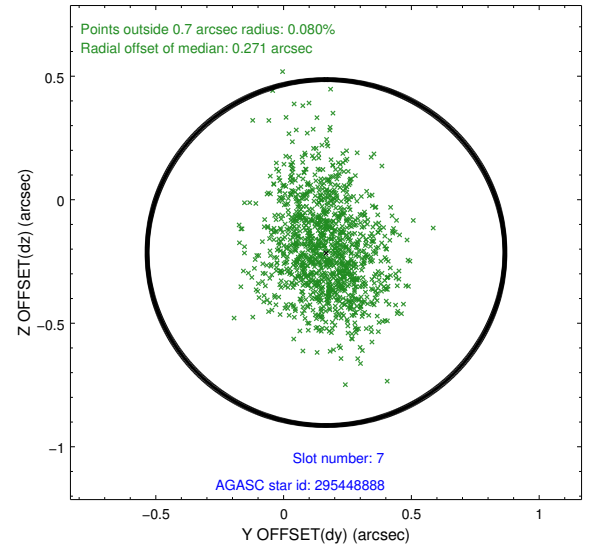
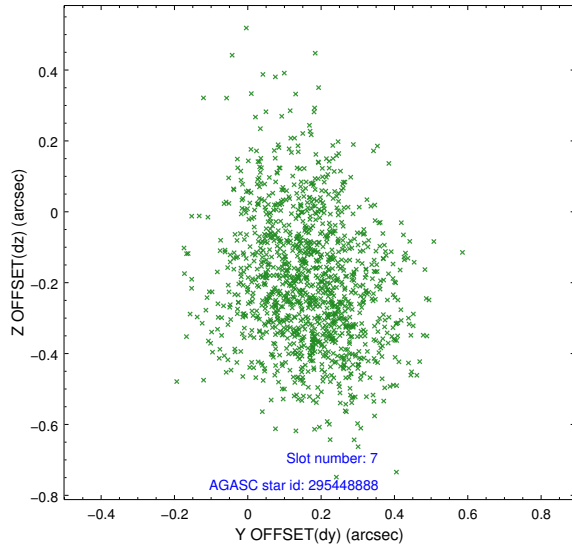
2.4.3 Slot 5



2.4.4 Slot 6

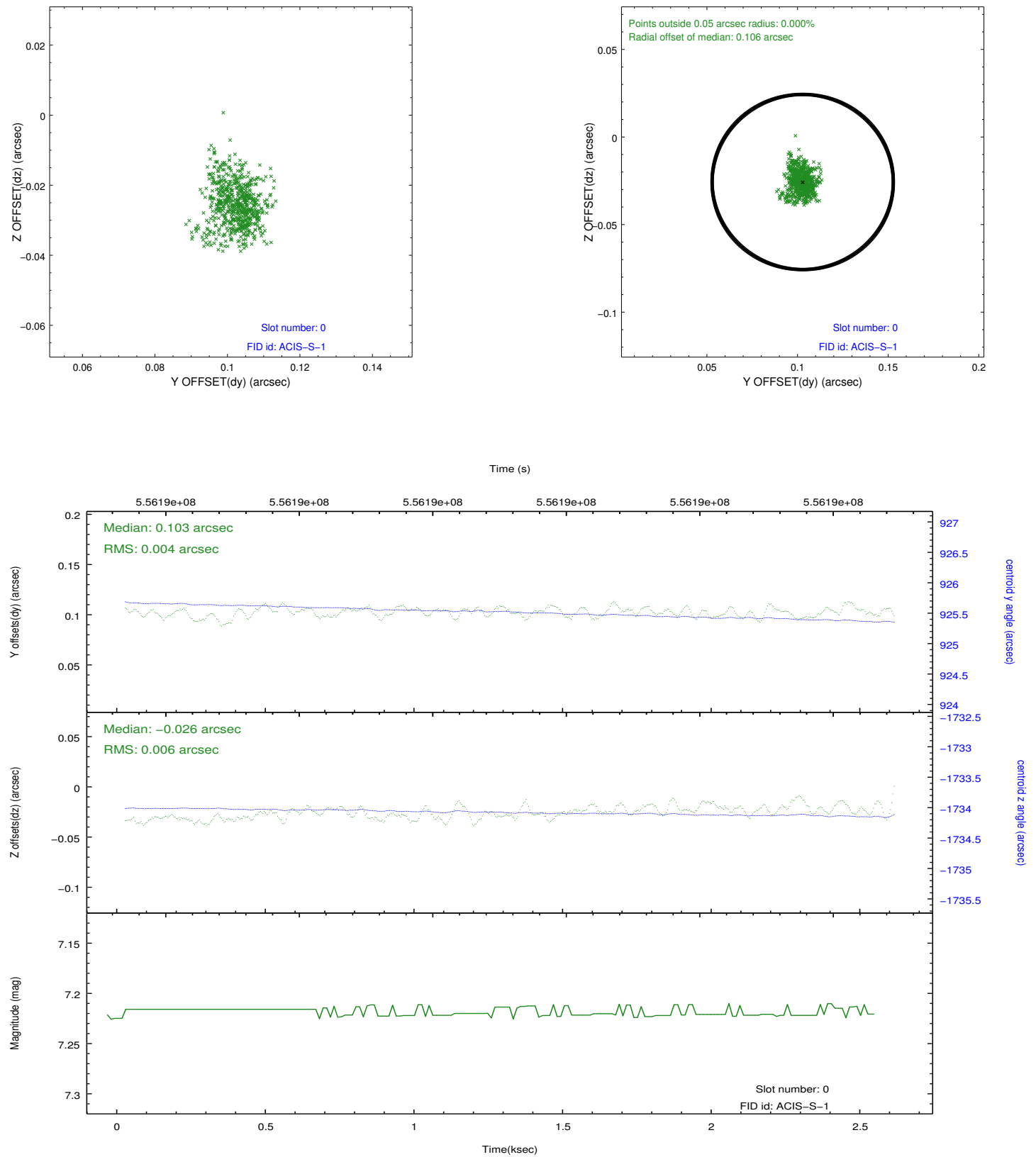


2.4.5 Slot 7

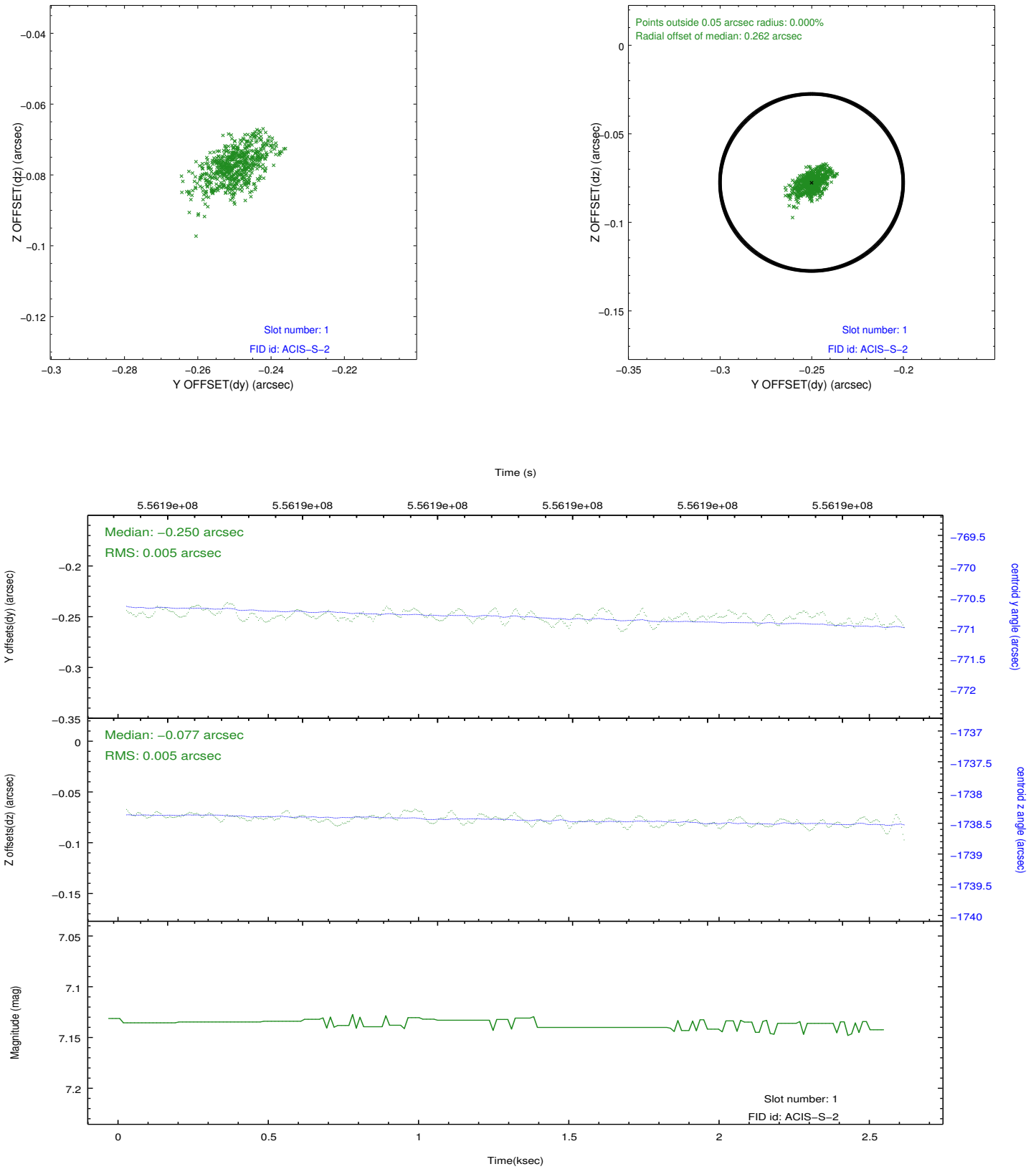


2.5 FID Slots

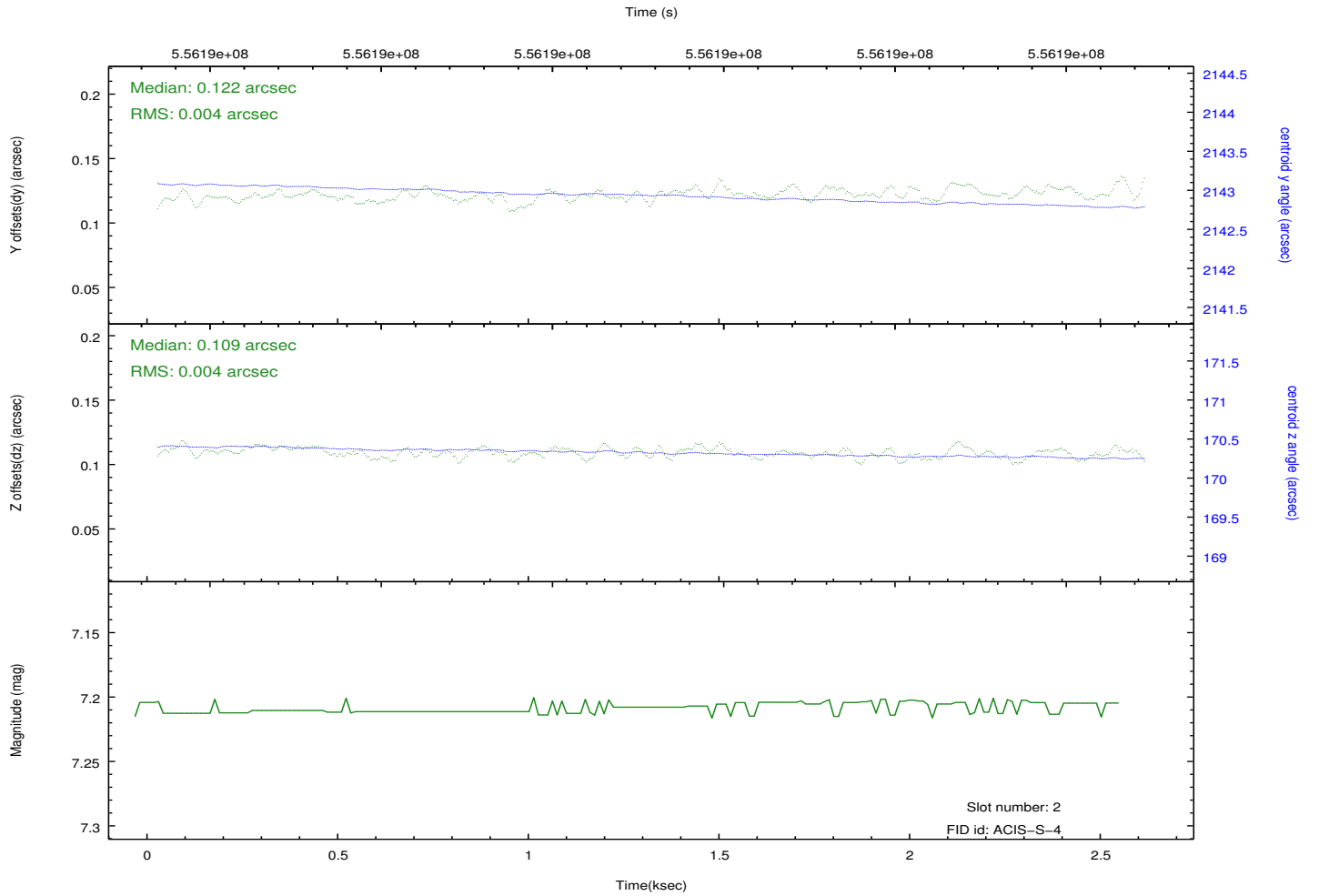
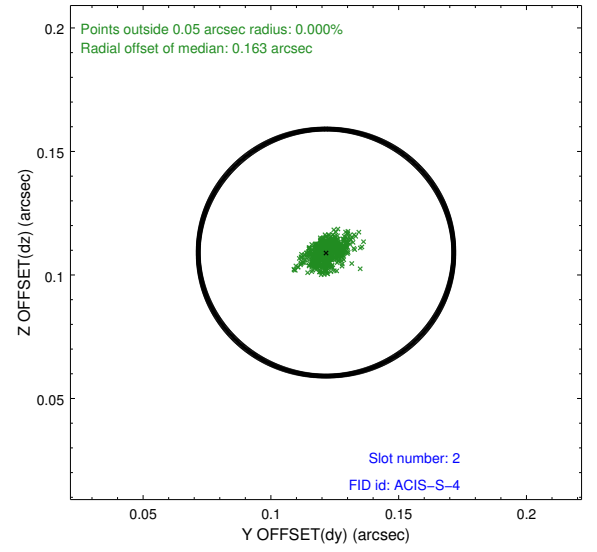
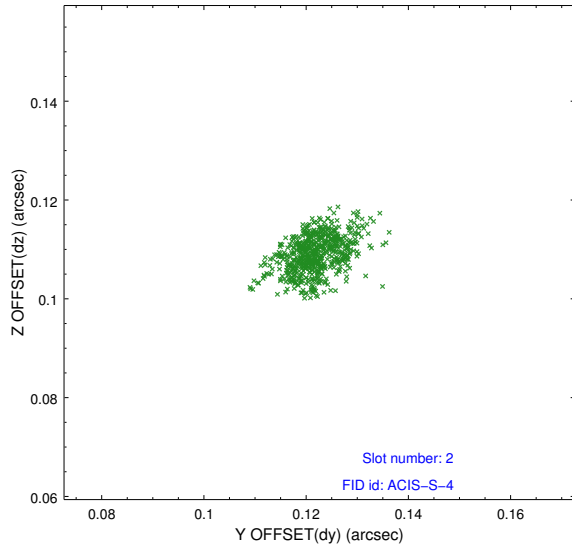
2.5.1 Slot 0



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)	2015.08.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.4631001127958

A.2 Comments