

FCC SDoC REPORT

ISED ICES-003 TEST REPORT

Test Report No. : T200904E03-F
Applicant : COMPAL ELECTRONICS, INC.
Address : No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan
Manufacturer : See the following P.4
Address : See the following P.4

Equipment Under Test (EUT) :
Product Name : Notebook Computer
Brand Name : HP
Model No. : HSN-C10C-4
Added Model(s) : N/A
Standards : FCC Part 15 Subpart B, Class B
ISED ICES-003 Issue 6: 2016, Class B
Date of Sample Receipt : Sep. 08, 2020
Date of Test : Sep. 08 ~ 13, 2020
Date of Issue : Oct. 05, 2020

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Compliance Certification Services Inc. or testing done by Compliance Certification Services Inc. in connection with distribution or use of the product described in this report must be approved by Compliance Certification Services Inc. in writing.

Approved By:



Date:

Oct. 05, 2020



Hex Chiang (Asst. Section Manager)

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Revision History

Revision	Description	Issue Date	Remark
00	Original	Oct. 05, 2020	T200904E03-F

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant	: COMPAL ELECTRONICS, INC.
Address	: No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei City : 11492, Taiwan
Manufacturer	: 1. COMPAL INFORMATION (KUNSHAN) CO. LTD. NO. 15, THIRD AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREE TRADE ZONE, KUNSHAN, JIANGSU CHINA 2. COMPAL ELECTRONICS TECHNOLOGY (KUNSHAN) CO., LTD. NO. 25, THIRD AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREE TRADE ZONE, KUNSHAN, JIANGSU CHINA 3. ECMMS S A DE C V BLVD OSCAR FLORES SANCHEZ 8951, COL PUENTE ALTO, 32690 JUAREZ CHIH MEXICO 4. COMPAL DIGITAL TECHNOLOGY (KUNSHAN) CO., LTD. NO.9, SECOND AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREE TRADE ZONE, KUNSHAN, JIANGSU CHINA 5. COMPALEAD ELETRÔNICA DO BRASIL INDÚSTRIA E COMÉRCIO LTDA RUA KANEBO 175, GALPÕES C1, C2, C3, C4, C5 C6 E C12, BAIRRO DISTRITO INDUSTRIAL JUNDIAÍ BUSINESS PARK, CEP 13213-090, JUNDIAÍ - SÃO PAULO BRASIL 6. Compal (Vietnam) Co., Ltd Ba Thien 1 Industrial Zone, Binh Xuyen District, Vinh Phuc Province, Vietnam 7. COMPAL ELECTRONICS (CHENGDU) CO., LTD. NO. 88, SEC.1, ZONGBAO AVENUE, CHENGDU HI-TECH COMPREHENSIVE BONDED ZONE (SHUANGLIU), SHUANGLIU COUNTY, CHENGDU CITY, SICHUAN CHINA 8. COMPAL ELECTRONICS (CHONGQING) CO., LTD. NO. D01, ZONE D, AIR PORT SECTION OF LIANGLU CUNTAN FREE TRADE PORT AREA, YUBEI DISTRICT, CHONGQING CHINA 9. FOXCONN CMSG INDUSTRIA DE ELECTRONICOS LTDA. AV. MARGINAL RODOVIA DOS BANDEIRANTES, 800 BAIRRO ENGORDADOURO, JUNDIAI - SP - BRAZIL

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1.2 General Description of EUT

Product Name : Notebook Computer
Brand Name : HP
Model No. : HSN-C10C-4
Added Model(s) : N/A
Variant Description : N/A

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1.3 Details of EUT

EUT Power Rating	AC 100 ~ 240V	
Highest operate description	3.0GHz	
Power Adapter	Chicony (hp)	TPN-CA21
		TPN-CA10
	Delta(hp)	TPN-DA20
	Artesyn	TPN-TA02
	Honor	TPN-HA01
	Lite-On (hp)	TPN-LA12
Adapter Power Rating	For TPN-CA21 ; TPN-CA10 ; TPN-TA02 ; TPN-HA01 ; TPN-LA12 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
	For TPN-DA20 I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	Non-shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR4 4266MHz (16GB / 32GB / 64GB)	
Main Board	Compal	LA-J443P
CPU	Intel	i7-1185G7 (3.0GHz)
		i7-1165G7 (2.8GHz)
		i5-1145G7 (2.6GHz)
		i5-1135G7 (2.4GHz)
14" Panel	AUO	B140HAN06.6
		B140ZAN01.5
	BOE	NE140FHM-N6L
		NE140QUM-N71
	IVO	X140NVFC
M2. SSD	Kioxia	KBG40ZNV128G (128GB)
		KXG60ZNV256G (256GB)
		KBG40ZNV256G (256GB)
		KXG6AZNV256G (256GB)

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M2. SSD	Kioxia	KXG60ZNV512G (512GB)
		KBG40ZNV512G (512GB)
		KXG6AZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG60PNV2T04 (2TB)
	Micron	MTFDHBA256TDV-1AY1AABHA (256GB)
		MTFDHBA512TDV-1AZ1AABHA (512GB)
		MTFDHBA512QFD-1AX1AABHA (512GB)
		MTFDHBA1T0TDV-1AZ1AABHA (1TB)
	Samsung	MZVLQ128HBHQ-000H1 (128GB)
		MZVLB256HBHQ-000H1 (256GB)
		MZVLQ256HAJD-000H1 (256GB)
		MZVLB256HBHQ-000H7 (256GB)
		MZVLB512HBHQ-000H1 (512GB)
		MZVLQ512HALU-000H1 (512GB)
		MZVLB512HBHQ-000H7 (512GB)
		MZVLB1T0HBLR-000H1 (1TB)
		MZVLB2T0HALB-000H1 (2TB)
	Hynix	HFS256GD9TNG-L2A0A (256GB)
		HFM256GDJTNI-82A0A (256GB)
		HFS512GD9TNG-L2A0A (512GB)
		HFM512GDJTNI-82A0A (512GB)
		HFS001TD9TNG-L2A0A (1TB)
	Western Digital	SDAPNUW-128G-1006 (128GB)
		SDBPNTY-256G-1006 (256GB)
		SDBQNTY-256G-1006 (256GB)
		SDBPNPZ-256G-1006 (256GB)
		SDBPNTY-512G-1006 (512GB)
		SDBQNTY-512G-1006 (512GB)
		SDBPNPZ-512G-1006 (512GB)
		SDBPNTY-1T00-1006 (1TB)

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M2. SSD	SSSTC	CL1-8D128-HP (128GB)
	Intel	SSDPEKNW512G8H (512GB)
		HBRPEKNX0202AH (512GB)
Battery Pack	Simplo	HSTNN-IB9H
		HSTNN-IB9J
Wireless LAN +BT	Intel	AX201D2W
WWAN+GPS	Fibocom	L850-GL
	Qualcomm	T99W175
Camera	Chicony	CKFJH5421004330LH
	TFC	YHSQ
NFC	WNC	XRAV-1

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Pre-test Mode

Mode	CPU	Adapter	MB	Memory	14" Panel	M.2 SSD	Battery	WLAN card	WWAN Card	CAMERA	NFC
1	Intel i7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140HAN06.6	Kioxia KBG40ZNV128G (128GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
2	Intel i7-1165G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B140ZAN01.5	Kioxia KXG60ZNV256G (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
3	Intel i5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	BOE NE140FHM-N6L	Kioxia KBG40ZNV256G (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
4	Intel i5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	BOE NE140QUM-N71	Kioxia KXG6A2NV256G (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
5	Intel i7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X140NVFC	Kioxia KXG60ZNV512G (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
6	Intel i7-1165G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B140HAN06.6	Kioxia KBG40ZNV512G (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
7	Intel i5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140ZAN01.5	Kioxia KXG6A2NV512G (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
8	Intel i5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140FHM-N6L	Kioxia KXG60ZNV1T02 (1TB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
9	Intel i7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	BOE NE140QUM-N71	Kioxia KXG60PNV2T04 (2TB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
10	Intel i7-1165G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	IVO X140NVFC	Micron MTFDHBA256TDV-1AY1AABHA (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
11	Intel i5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B140HAN06.6	Micron MTFDHBA512TDV-1AJ21AABHA (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
12	Intel i5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B140ZAN01.5	Micron MTFDHBA512QFD-1AX1AABHA (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
13	Intel i7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	BOE NE140FHM-N6L	Micron MTFDHBA1T0TDV-1AJ21AABHA (1TB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
14	Intel i7-1165G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140QUM-N71	Samsung MZVLQ128HBMQ-000H1 (128GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
15	Intel i5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	IVO X140NVFC	Samsung MZVLB256HBMQ-000H1 (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
16	Intel i5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140HAN06.6	Samsung MZVLQ256HBJD-000H1 (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
17	Intel i7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B140ZAN01.5	Samsung MZVLB256HBMQ-000H7 (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
18	Intel i7-1165G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	BOE NE140FHM-N6L	Samsung MZVLB512HBJQ-000H1 (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
19	Intel i5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	BOE NE140QUM-N71	Samsung MZVLQ512HALU-000H1 (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
20	Intel i5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X140NVFC	Samsung MZVLB512HBJQ-000H7 (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
21	Intel i7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B140HAN06.6	Samsung MZVLB1T0HBLR-000H1 (1TB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
22	Intel i7-1165G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140ZAN01.5	Samsung MZVLB2T0HALB-000H1 (2TB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
23	Intel i5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140FHM-N6L	Hynix HFS256GD9TNG-L2A0A (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
24	Intel i5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	BOE NE140QUM-N71	Hynix HFM256GDJTN1-82A0A (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
25	Intel i7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	IVO X140NVFC	Hynix HFS512GD9TNG-L2A0A (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
26	Intel i7-1165G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B140HAN06.6	Hynix HFM512GDJTN1-82A0A (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
27	Intel i5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B140ZAN01.5	Hynix HFS001TD9TNG-L2A0A (1TB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
28	Intel i5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	BOE NE140FHM-N6L	Western Digital SDAPNUJW-128G-1006 (128GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
29	Intel i7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140QUM-N71	Western Digital SDBPNTY-256G-1006 (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
30	Intel i7-1165G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	IVO X140NVFC	Western Digital SDBQNTY-256G-1006 (256GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
31	Intel i5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140HAN06.6	Western Digital SDBPNPZ-256G-1006 (256GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
32	Intel i5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B140ZAN01.5	Western Digital SDBPNTY-512G-1006 (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
33	Intel i7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	BOE NE140FHM-N6L	Western Digital SDBQNTY-512G-1006 (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
34	Intel i7-1165G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	BOE NE140QUM-N71	Western Digital SDBPNPZ-512G-1006 (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
35	Intel i5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X140NVFC	Western Digital SDBPNTY-1T00-1006 (1TB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
36	Intel i5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B140HAN06.6	SSSTC CL1-8D128-HP (128GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
37	Intel i7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B140ZAN01.5	Intel SSDPEKNW512G8H (512GB)	Simple HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
38	Intel i7-1165G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140FHM-N6L	Intel HBRPEKNX0202AH (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
39	Intel i7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	BOE NE140FHM-N6L	Kioxia KXG6A2NV512G (512GB)	Simple HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175	Chicony CKFJH5421004330LH	WNC XRAV-1

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1.4 The worst case of the EUT

EUT will be carried out in the worst case as followings:

Worst Case	
CE	Mode 39 (1920 x 1080 Resolution)
Below 1GHz RE	Mode 39 (1920 x 1080 Resolution)
Above 1GHz RE	Mode 39 (1920 x 1080 Resolution)

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1.5 Description of Support Units

Mode 39 :

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	LG	27MD5KA	901NTTQB4321
SIM Card	VIBO	N/A	N/A
HDD	WD	My Passport	WXB1AA4EEJ9P
Earphone	Lenovo	GS-4021M	57Y4488
Mouse	HP	MOAFUO	PSB1030013577
Notebook PC (Remote)	DELL	INSPIRON 640m	CN-0MG532-70166-75G-03AP
Wireless AP (Remote)	ASUS	RT-AX88U	L41THP000064
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A

Support Equipment Used in Tested Cable

Mode 39 :

Cable Type	Core	Length	Shielding/Non-shielding
Type C Cable (1)	N/A	1.8m	Shielding
HDMI Cable (2)	N/A	1.8m	Shielding
Type C Cable (3)	N/A	1.0m	Shielding
USB HDD Cable (4)	N/A	0.5m	Shielding
Earphone Cable (5)	N/A	1.8m	Non-Shielding
USB Mouse Cable (6)	N/A	1.8m	Shielding

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1.6 Operation Procedure

Mode 39:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through "BurnIn test" test software.
3. The EUT communicates with Notebook PC by Bluetooth radio.
4. The EUT communicates with Wireless AP by WIFI radio.
5. The EUT execute the Burnin software to send "H" Pattern to display on the screen.
6. Executed AMCAP2 software to turn-on the Camera.
7. The EUT will receive the GPS signal source and sustained action.
8. The EUT will receive the RF signal source and sustained action.
9. The EUT will receive the NFC signal source and sustained action.
10. Setup the condition for test mode and begin the test.

1.7 Modification List

No modification was made by Compliance Certification Services Inc..

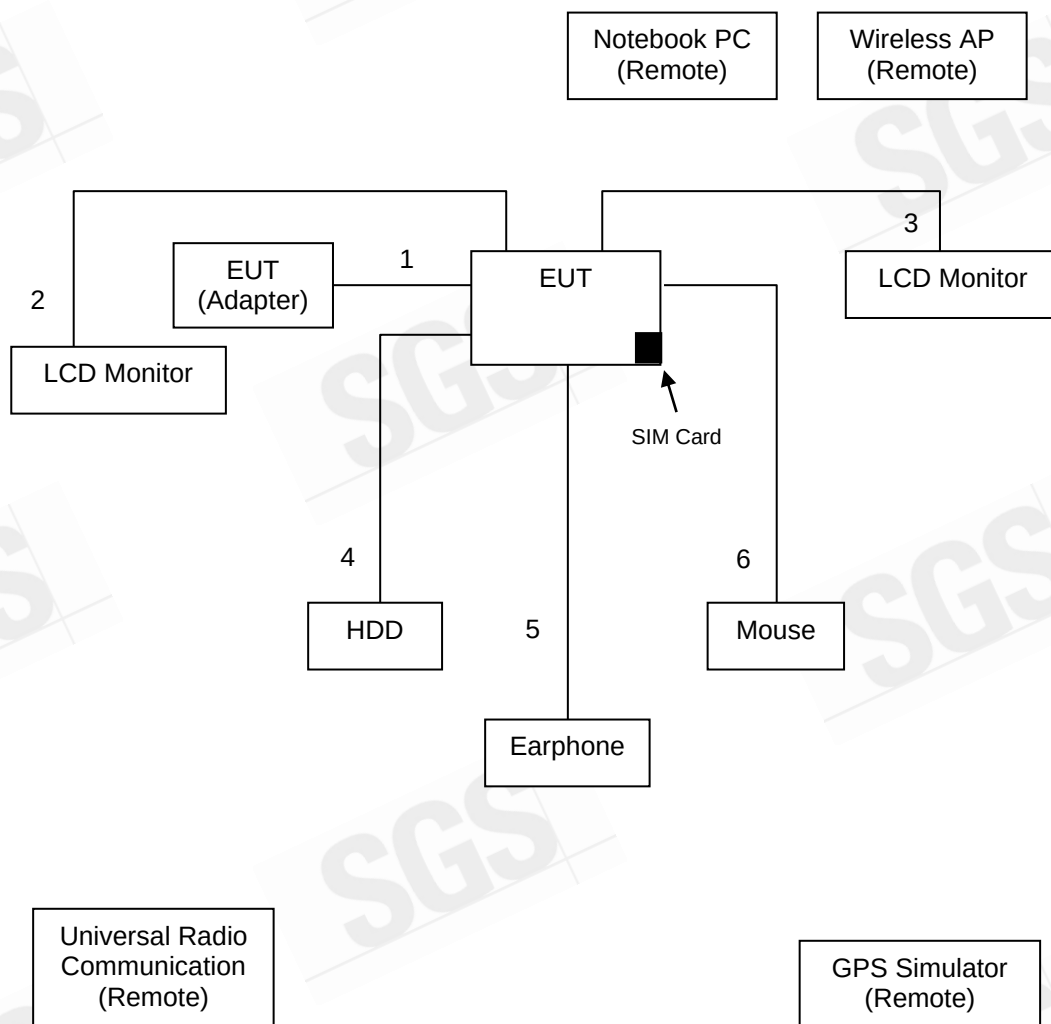
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1.8 Test Set-Up Configuration

Mode 39 :



1.9 Accessories Cable List

See clause 1.3 of this report

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1.10 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.11 Standards Applicable for Testing

Tests to be carried out under FCC Part 15 Subpart B/CISPR 22

Test Standards	Status
FCC Part 15 Subpart B/CISPR 22	Applicable
Deviation from Standard	No deviation

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1.12 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.13 Summary of Results

Standard	Test Type	Result
FCC Part 15 Subpart B, Class B	Conducted Emission	PASS
ISED ICES-003 Issue 6: 2016, Class B	Radiated Emission	PASS

1.14 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz) Upper frequency of measurement range (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15 Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

2.3.2 Limits of Radiated Emissions

FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	69.5	49.5	74	54

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CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30~230	40	30
230~1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

Conducted_Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	EMCRG142	190809	09/20/2019	09/19/2020
EMI Test Receiver	R&S	ESCI	101073	07/01/2020	06/30/2021
LISN	Schwarzbeck	NSLK8128	5012	04/14/2020	04/13/2021
LISN	R&S	ENV216	101054	04/26/2020	04/25/2021
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory)					
No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty Ulab (K=2) of conducted emission is 3.14 dB					
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB					

2.4.2 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter insertion loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

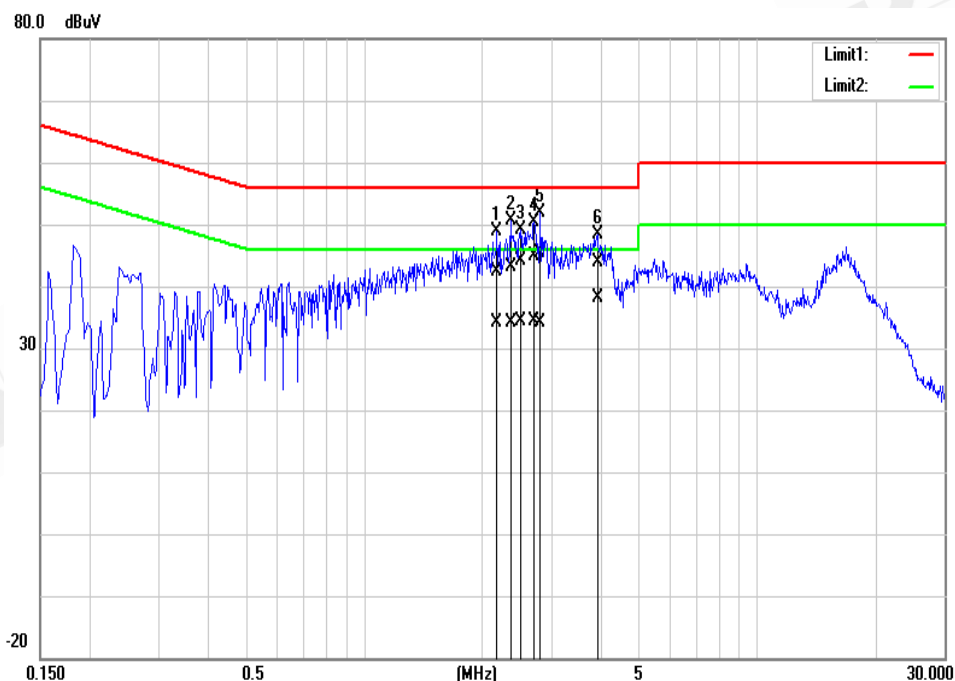
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2.4.3 Measurement Data:

Model no.	HSN-C10C-4	Line:	L1
Environmental Conditions	23°C, 47% RH	Tested Date	2020/09/08
Test Mode	Mode 39	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
1	2.1860	32.65	24.32	9.72	42.37	34.04	56.00	46.00	-13.63	-11.96	Pass
2	2.3699	33.28	24.36	9.73	43.01	34.09	56.00	46.00	-12.99	-11.91	Pass
3	2.5100	34.43	24.61	9.73	44.16	34.34	56.00	46.00	-11.84	-11.66	Pass
4	2.7180	35.10	24.61	9.74	44.84	34.35	56.00	46.00	-11.16	-11.65	Pass
5	2.8100	35.74	24.40	9.74	45.48	34.14	56.00	46.00	-10.52	-11.86	Pass
6*	3.9260	34.06	28.26	9.77	43.83	38.03	56.00	46.00	-12.17	-7.97	Pass

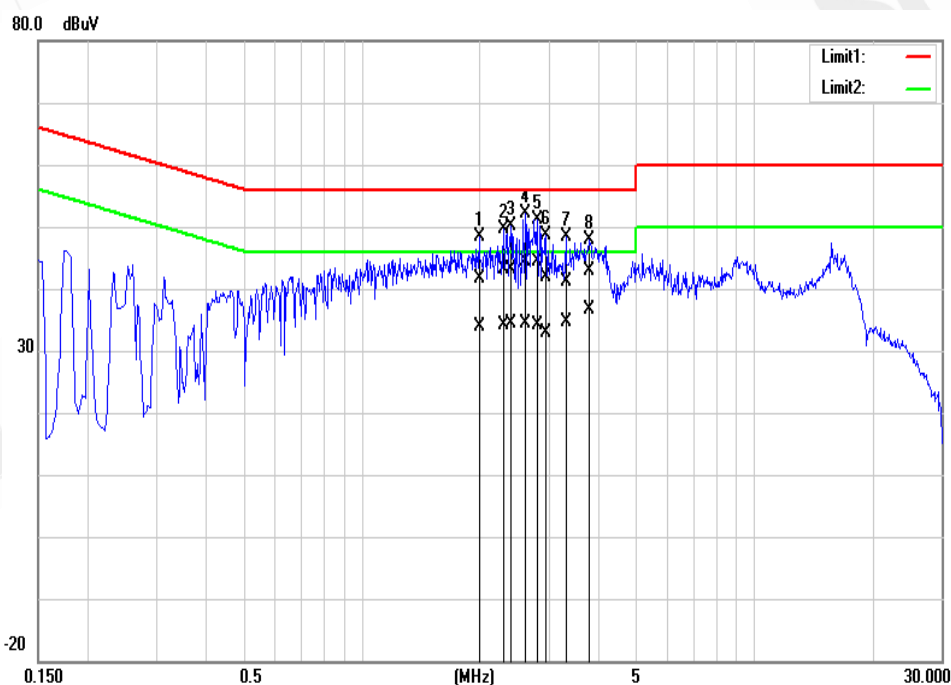
Note: L1 = Line One (Live Line)

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Model no.	HSN-C10C-4	Line:	N
Environmental Conditions	23°C, 47% RH	Tested Date	2020/09/08
Test Mode	Mode 39	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
1	1.9980	31.73	24.13	9.79	41.52	33.92	56.00	46.00	-14.48	-12.08	Pass
2	2.3060	33.23	24.42	9.79	43.02	34.21	56.00	46.00	-12.98	-11.79	Pass
3	2.3980	33.36	24.50	9.80	43.16	34.30	56.00	46.00	-12.84	-11.70	Pass
4	2.6180	34.68	24.65	9.80	44.48	34.45	56.00	46.00	-11.52	-11.55	Pass
5	2.7980	34.65	24.23	9.80	44.45	34.03	56.00	46.00	-11.55	-11.97	Pass
6	2.9500	32.14	23.13	9.80	41.94	32.93	56.00	46.00	-14.06	-13.07	Pass
7	3.3140	31.40	24.74	9.82	41.22	34.56	56.00	46.00	-14.78	-11.44	Pass
8*	3.8020	33.02	26.89	9.83	42.85	36.72	56.00	46.00	-13.15	-9.28	Pass

Note: N = Line Two (Neutral Line).

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

Radiated_Below_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	TESEQ	CBL 6112D	31674	02/20/2020	02/19/2021
Bilog Antenna	TESEQ	CBL 6112D	31675	03/09/2020	03/08/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/29/2020	04/28/2021
EMI Test Receiver	R&S	ESCI	100961	06/08/2020	06/07/2021
EMI Test Receiver	R&S	ESCI	100962	06/12/2020	06/11/2021
Pre-Amplifier	HP	8447D	2944A07754	04/29/2020	04/28/2021
Pre-Amplifier	HP	8447D	2944A08150	04/29/2020	04/28/2021
AC POWER SOURE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)					

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Above 1GHz

Radiated_Above_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/29/2020	04/28/2021
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020
Horn Antenna	EMCO	3117	00055167	12/12/2019	12/11/2020
Pre-Amplifier	EMCI	EMC051845	980040	04/29/2020	04/28/2021
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/02/2020	09/01/2021
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/24/2020	08/23/2021
AC POWER SOURE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.89 dB. (1-6GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 5.27 dB. (6-18GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.13 dB. (18-26GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.28 dB. (26-40GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is 5.18 dB.(1-6GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is 5.48 dB.(6-18GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is ---- dB.(18-26GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is ---- dB.(26-40GHz)					

2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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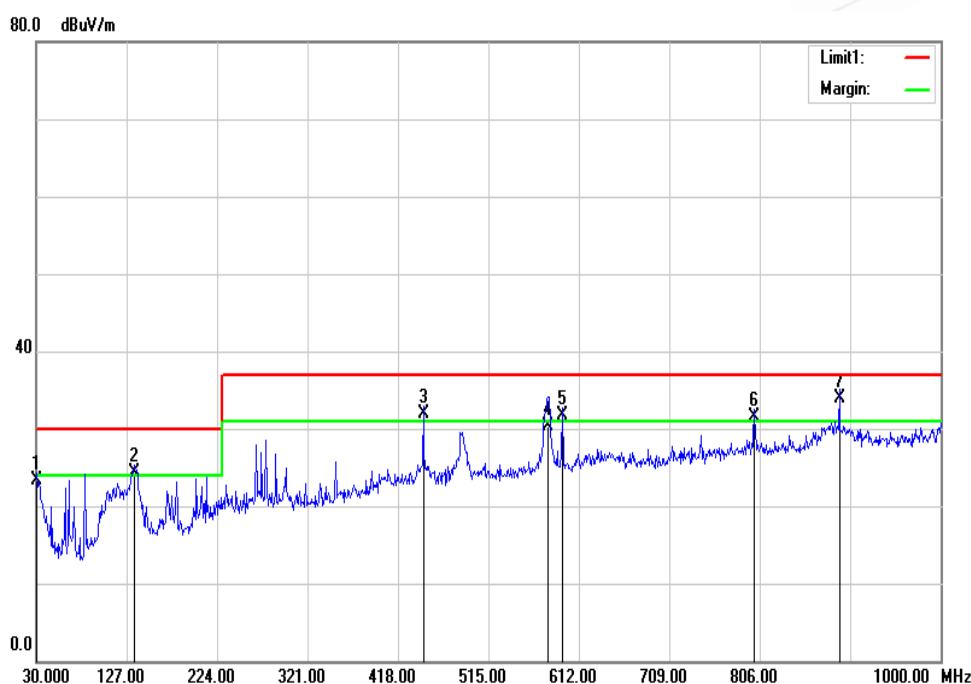
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2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-C10C-4	Test Mode	Mode 39
Environmental Conditions	23°C, 55% RH	Tested Date	2020/09/13
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.04	-2.83	23.21	30.00	-6.79	359	360	QP
2	135.7300	32.65	-8.28	24.37	30.00	-5.63	100	124	QP
3	445.1600	32.84	-0.93	31.91	37.00	-5.09	100	326	QP
4	579.0200	29.23	1.14	30.37	37.00	-6.63	241	0	QP
5	594.5400	30.34	1.29	31.63	37.00	-5.37	399	0	QP
6	800.1800	27.39	4.04	31.43	37.00	-5.57	200	313	QP
7	891.3600	28.73	5.18	33.91	37.00	-3.09	200	359	QP

REMARKS:

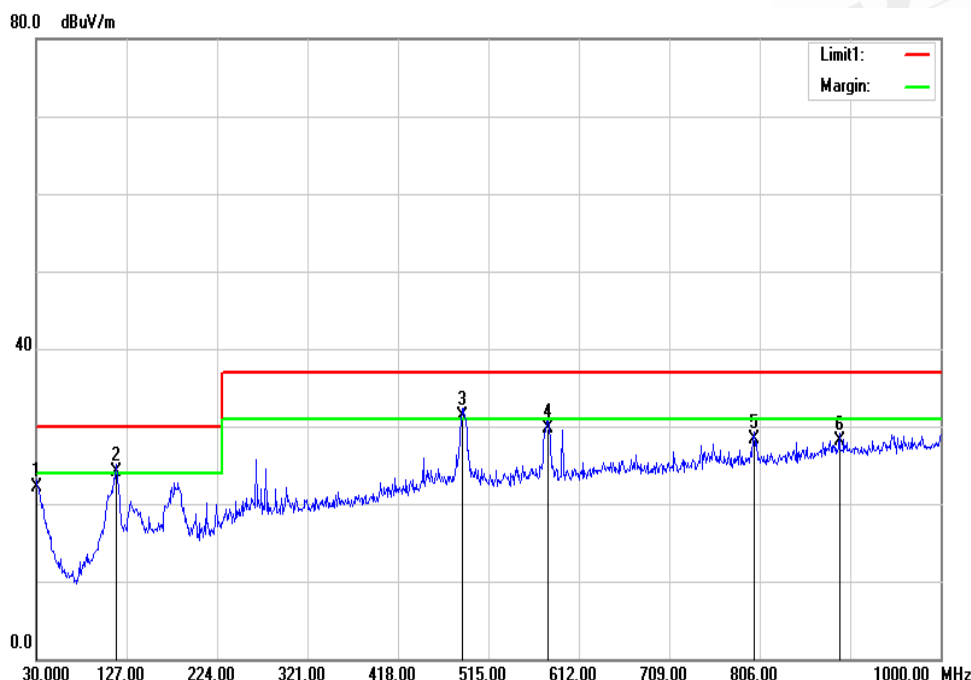
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Model no.	HSN-C10C-4	Test Mode	Mode 39
Environmental Conditions	23°C, 55% RH	Tested Date	2020/09/13
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	25.01	-3.00	22.01	30.00	-7.99	300	199	QP
2	116.3300	32.82	-8.77	24.05	30.00	-5.95	400	65	QP
3	486.8700	33.51	-2.17	31.34	37.00	-5.66	100	4	QP
4	579.0200	30.49	-0.78	29.71	37.00	-7.29	200	15	QP
5	800.1800	26.66	1.66	28.32	37.00	-8.68	300	0	QP
6	891.3600	24.89	3.17	28.06	37.00	-8.94	300	24	QP

REMARKS:

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

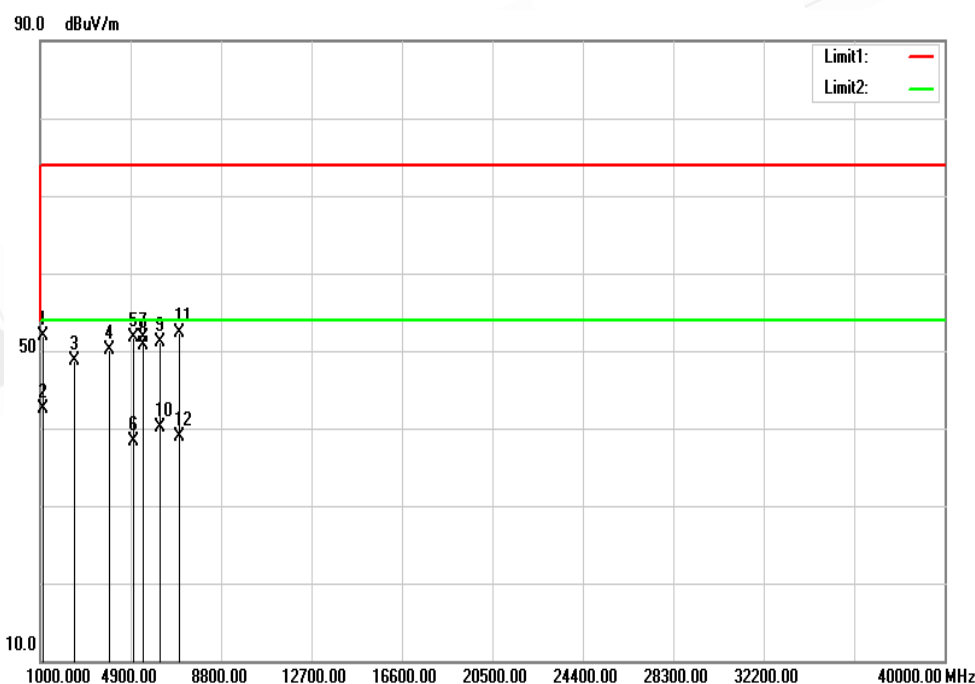
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Above 1GHz

Model no.	HSN-C10C-4	Test Mode	Mode 39
Environmental Conditions	23°C, 55% RH	Tested Date	2020/09/13
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	3.0GHz	Upper frequency	15.0GHz
Detector Function	Peak	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1110.500	71.44	-19.48	51.96	74.00	-22.04	100	241	peak
2	1110.500	61.95	-19.48	42.47	54.00	-11.53	100	241	AVG
3	2453.500	62.92	-14.20	48.72	74.00	-25.28	200	282	peak
4	4000.500	61.37	-11.24	50.13	74.00	-23.87	100	261	peak
5	4986.500	60.32	-8.70	51.62	74.00	-22.38	100	96	peak
6	4986.500	47.09	-8.70	38.39	54.00	-15.61	100	96	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	5420.000	59.26	-7.46	51.80	74.00	-22.20	100	208	peak
8	5420.000	58.08	-7.46	50.62	54.00	-3.38	100	208	AVG
9	6168.000	55.81	-4.73	51.08	74.00	-22.92	102	0	peak
10	6168.000	44.88	-4.73	40.15	54.00	-13.85	102	0	AVG
11	6992.500	55.74	-3.44	52.30	74.00	-21.70	102	0	peak
12	6992.500	42.27	-3.44	38.83	54.00	-15.17	102	0	AVG

REMARKS:

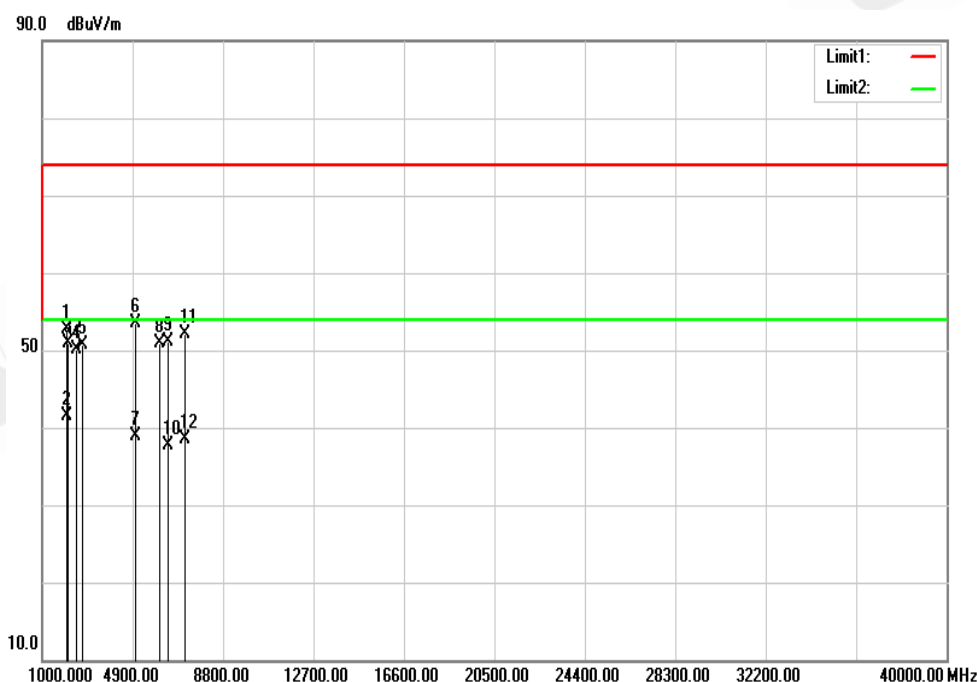
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-C10C-4	Test Mode	Mode 39
Environmental Conditions	23°C , 55% RH	Tested Date	2020/09/13
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	3.0GHz	Upper frequency	15.0GHz
Detector Function	Peak & Average.	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	2045.500	67.64	-14.88	52.76	74.00	-21.24	200	215	peak
2	2045.500	56.35	-14.88	41.47	54.00	-12.53	200	215	AVG
3	2088.000	65.69	-14.76	50.93	74.00	-23.07	200	295	peak
4	2453.500	64.31	-14.20	50.11	74.00	-23.89	100	210	peak
5	2751.000	63.96	-13.33	50.63	74.00	-23.37	100	184	peak
6	4995.000	62.23	-8.68	53.55	74.00	-20.45	200	64	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	4995.000	47.62	-8.68	38.94	54.00	-15.06	200	64	AVG
8	6049.000	55.89	-5.00	50.89	74.00	-23.11	100	263	peak
9	6389.000	55.62	-4.60	51.02	74.00	-22.98	200	183	peak
10	6389.000	42.26	-4.60	37.66	54.00	-16.34	200	183	AVG
11	7154.000	55.93	-3.89	52.04	74.00	-21.96	270	0	peak
12	7154.000	42.46	-3.89	38.57	54.00	-15.43	270	0	AVG

REMARKS:

1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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3. Photographs of Test

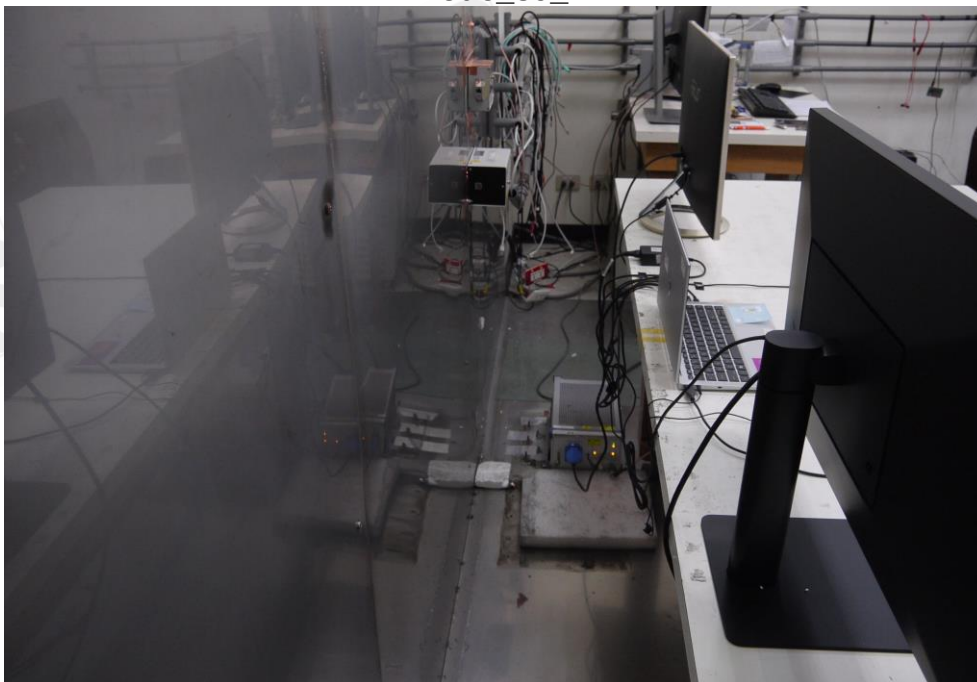
CE Testing Set-up

Model No.: HSN-C10C-4

Mode 39 +



Mode 39 -



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RE Testing Set-up Below 1GHz

Model No.: HSN-C10C-4
Mode_39_ +



Mode_39_-



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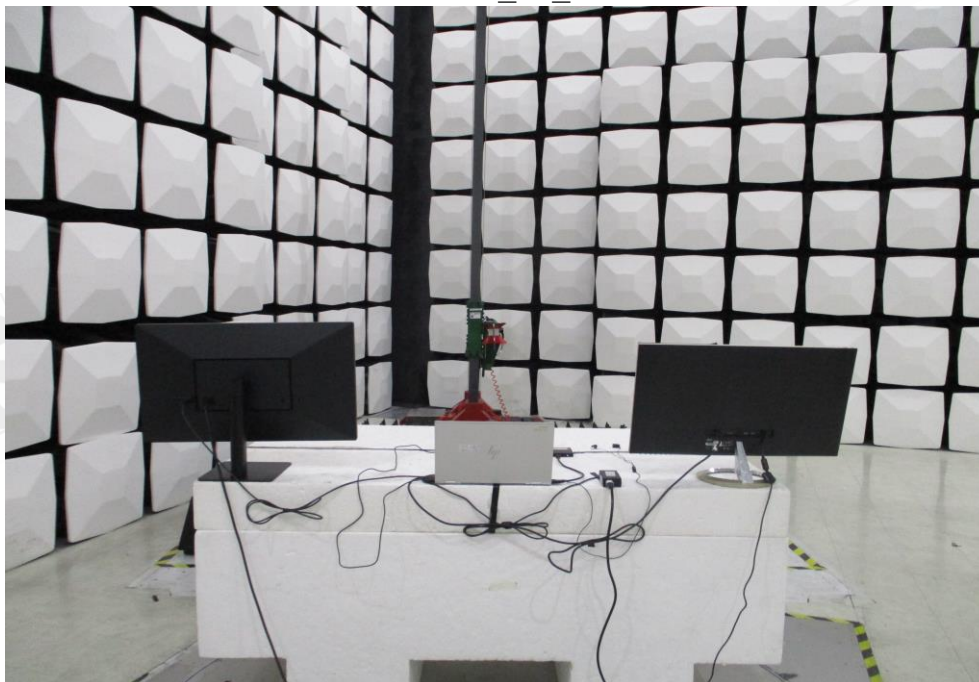
Above 1GHz

Model No.: HSN-C10C-4

Mode_39_+



Mode_39_-



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4. Photographs of Product

Exterior

Model No.: HSN-C10C-4



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Adapter Model No.: TPN-CA21



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Adapter Model No.: TPN-CA10



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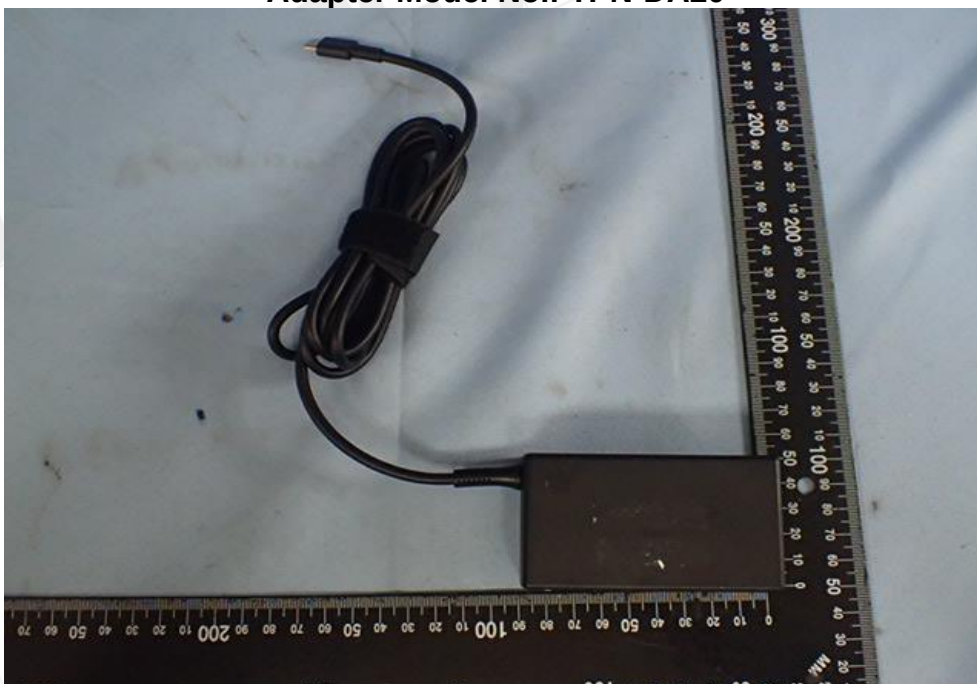


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Adapter Model No.: TPN-DA20



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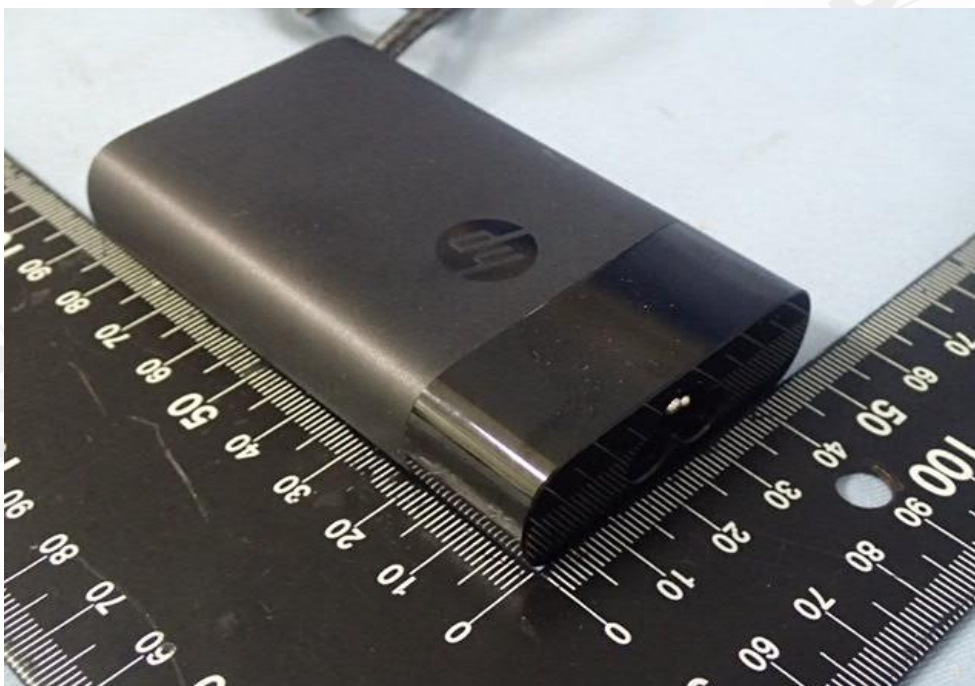


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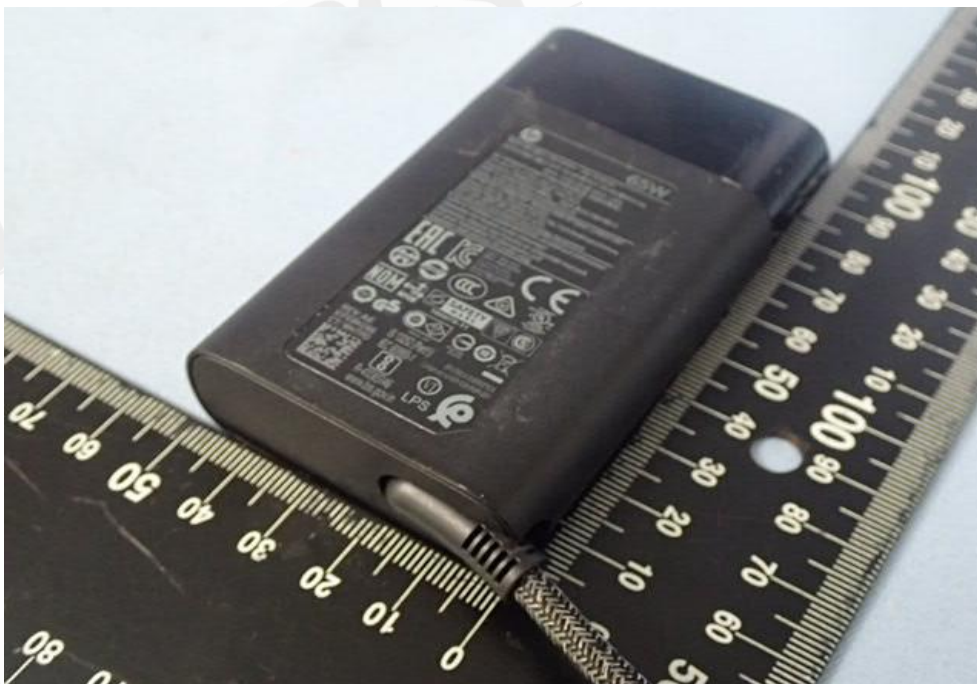
Adapter Model No.: TPN-TA02



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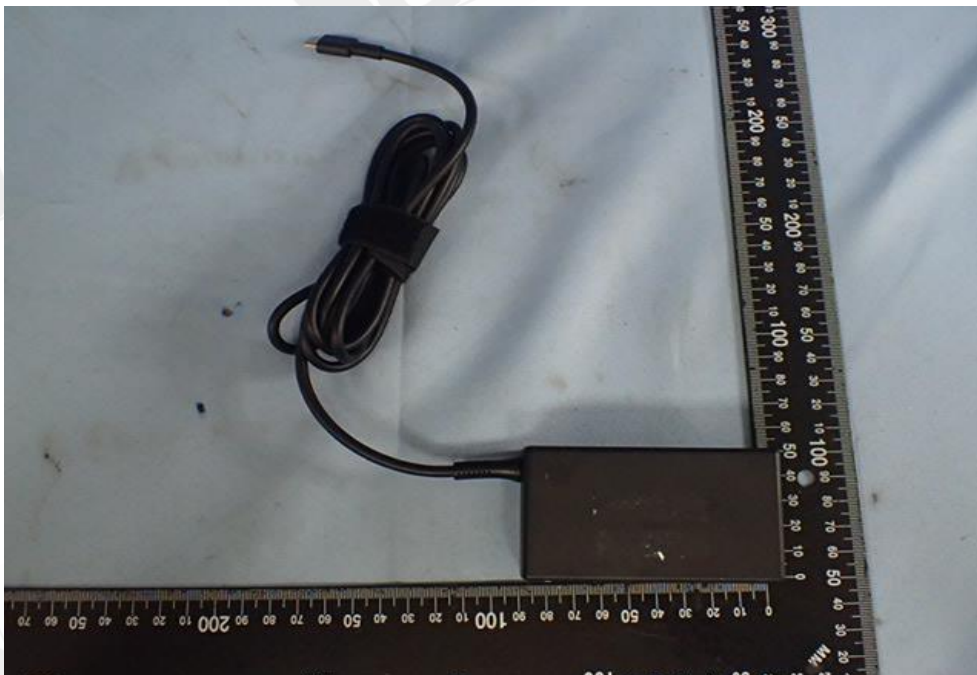


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Adapter Model No.: TPN-HA01



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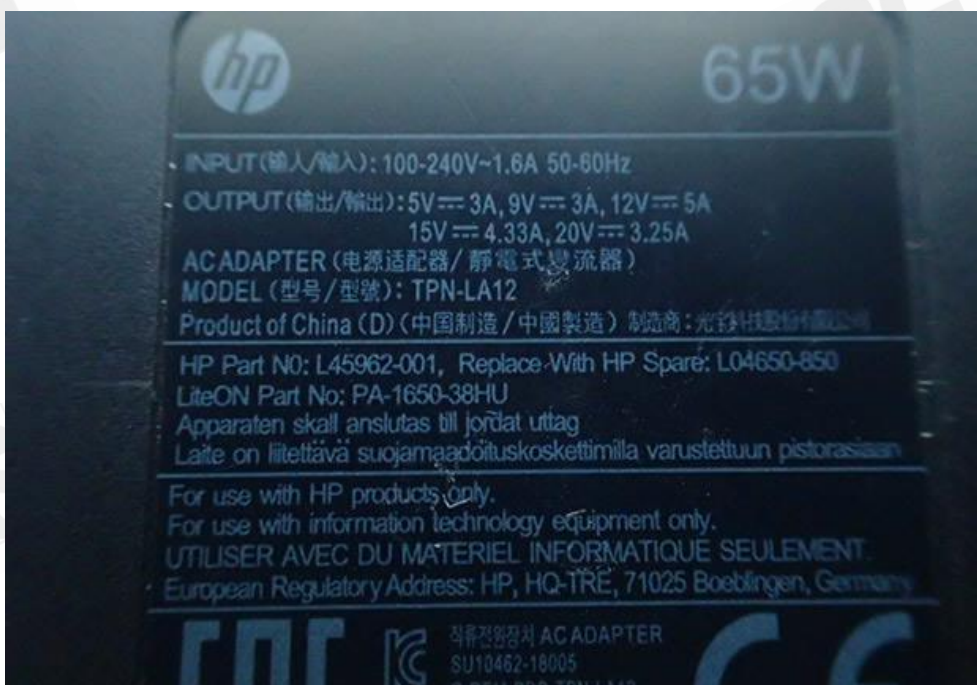
Adapter Model No.: TPN-LA12



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