

FCC SDoC REPORT

ISED ICES-003 TEST REPORT

Test Report No. : T200904E02-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
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. 07, 2020
Date of Test : Sep. 07 ~ 12, 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	T200904E02-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 CMMSG 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
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)
13" Panel	AUO	B133HAN05.H
	INX	N133HCG-GE3
	SDC	ATNA33TP10
	LGD	LP133WF9
	IVO	X133NVFF
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
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	13" Panel	M.2 SSD	Battery	WLAN card	WWAN Card	CAMERA	NFC
1	Intel 7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B133HAN05.H	Kloxia KBG402NV128G (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
2	Intel 7-1185G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	INX N133HCG-GE3	Kloxia KXG60ZNV256G (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
3	Intel 5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	SDC ATNA33TP10	Kloxia KBG402NV256G (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
4	Intel 5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	LGD LP133WF9	Kloxia KXG6AZNV256G (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
5	Intel 7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X133NVFF	Kloxia KXG60ZNV512G (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
6	Intel 7-1185G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B133HAN05.H	Kloxia KBG402NV512G (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
7	Intel 5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	INX N133HCG-GE3	Kloxia KXG6AZNV512G (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
8	Intel 5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	SDC ATNA33TP10	Kloxia KXG60ZNV1T02 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
9	Intel 7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	LGD LP133WF9	Kloxia KXG60PNV2T04 (2TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
10	Intel 7-1185G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	IVO X133NVFF	Micron MTFDHB4256TDV-1AY1AABHA (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
11	Intel 5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B133HAN05.H	Micron MTFDHB512TDV-1AZ1AABHA (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
12	Intel 5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	INX N133HCG-GE3	Micron MTFDHB512QFD-1AX1AABHA (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
13	Intel 7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	SDC ATNA33TP10	Micron MTFDHB1T07DV-1AZ1AABHA (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
14	Intel 7-1185G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	LGD LP133WF9	Samsung MZVLQ128BH0Q-000H1 (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
15	Intel 5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	IVO X133NVFF	Samsung MZVLB256BH0Q-000H1 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
16	Intel 5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B133HAN05.H	Samsung MZVLQ256HJAJD-000H1 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
17	Intel 7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	INX N133HCG-GE3	Samsung MZVLB256BH0Q-000H7 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
18	Intel 7-1185G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	SDC ATNA33TP10	Samsung MZVLB512HBJQ-000H1 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
19	Intel 5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	LGD LP133WF9	Samsung MZVLQ512HALU-000H1 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
20	Intel 5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X133NVFF	Samsung MZVLB512HBJQ-000H7 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
21	Intel 7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B133HAN05.H	Samsung MZVLB1T0HBLR-000H1 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
22	Intel 7-1185G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	INX N133HCG-GE3	Samsung MZVLB2T0HALB-000H1 (2TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
23	Intel 5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	SDC ATNA33TP10	Hynix HFS256GD9TNG-L2A0A (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
24	Intel 5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	LGD LP133WF9	Hynix HFM256GDJTN1-82A0A (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
25	Intel 7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	IVO X133NVFF	Hynix HFS512GD9TNG-L2A0A (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
26	Intel 7-1185G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	AUO B133HAN05.H	Hynix HFM512GDJTN1-82A0A (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
27	Intel 5-1145G7 (2.6GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	INX N133HCG-GE3	Hynix HFS001TD9TNG-L2A0A (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
28	Intel 5-1135G7 (2.4GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	SDC ATNA33TP10	Western Digital SDAPNUJ-128G-1006 (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
29	Intel 7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	LGD LP133WF9	Western Digital SDBPNTY-256G-1006 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
30	Intel 7-1185G7 (2.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	IVO X133NVFF	Western Digital SDBQNTY-256G-1006 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
31	Intel 5-1145G7 (2.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	AUO B133HAN05.H	Western Digital SDBPNPZ-256G-1006 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
32	Intel 5-1135G7 (2.4GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	INX N133HCG-GE3	Western Digital SDBPNTY-512G-1006 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
33	Intel 7-1185G7 (3.0GHz)	Delta(hp) TPN-DA20	Compal LA-J443P	DDR4 4266MHz 64GB	SDC ATNA33TP10	Western Digital SDBQNTY-512G-1006 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
34	Intel 7-1185G7 (2.8GHz)	Artesyn TPN-TA02	Compal LA-J443P	DDR4 4266MHz 16GB	LGD LP133WF9	Western Digital SDBPNPZ-512G-1006 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
35	Intel 5-1145G7 (2.6GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	IVO X133NVFF	Western Digital SDBPNTY-1T00-1006 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
36	Intel 5-1135G7 (2.4GHz)	Lite-On (hp) TPN-LA12	Compal LA-J443P	DDR4 4266MHz 64GB	AUO B133HAN05.H	SSSTC CL1-8D128-HP (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
37	Intel 7-1185G7 (3.0GHz)	Chicony(hp) TPN-CA21	Compal LA-J443P	DDR4 4266MHz 16GB	INX N133HCG-GE3	Western Digital SSDPEKNW512G8H (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH	WNC XRAV-1
38	Intel 7-1185G7 (2.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J443P	DDR4 4266MHz 32GB	SDC ATNA33TP10	Intel HBRPEKNX020AH (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175	TFC YHSQ	WNC XRAV-1
39	Intel 7-1185G7 (3.0GHz)	Honor TPN-HA01	Compal LA-J443P	DDR4 4266MHz 32GB	INX N133HCG-GE3	Kloxia KXG60ZNV512G (512GB)	Simplo HSTNN-IB9H	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)	Lenovo	TP00103A	SL10V08654
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..

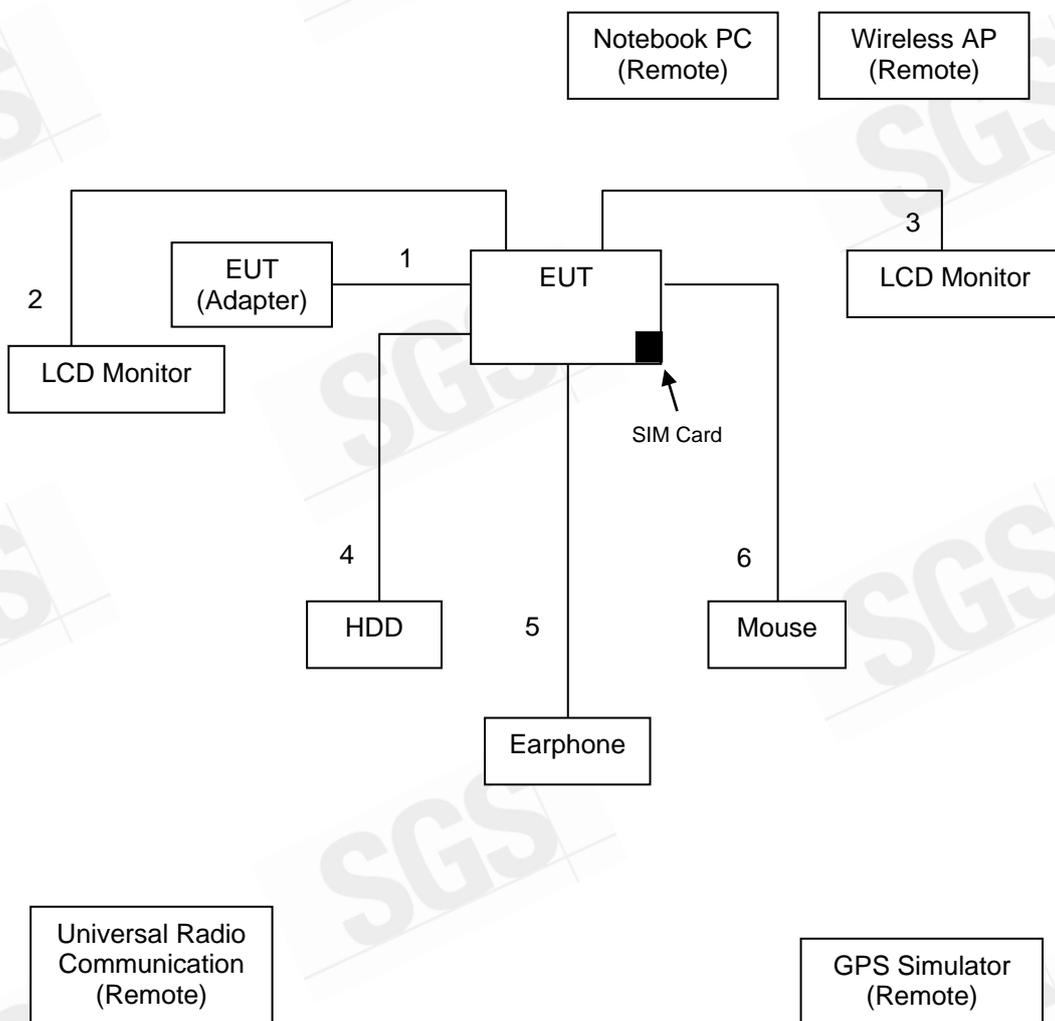
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1.8 Test Set-Up Configuration

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

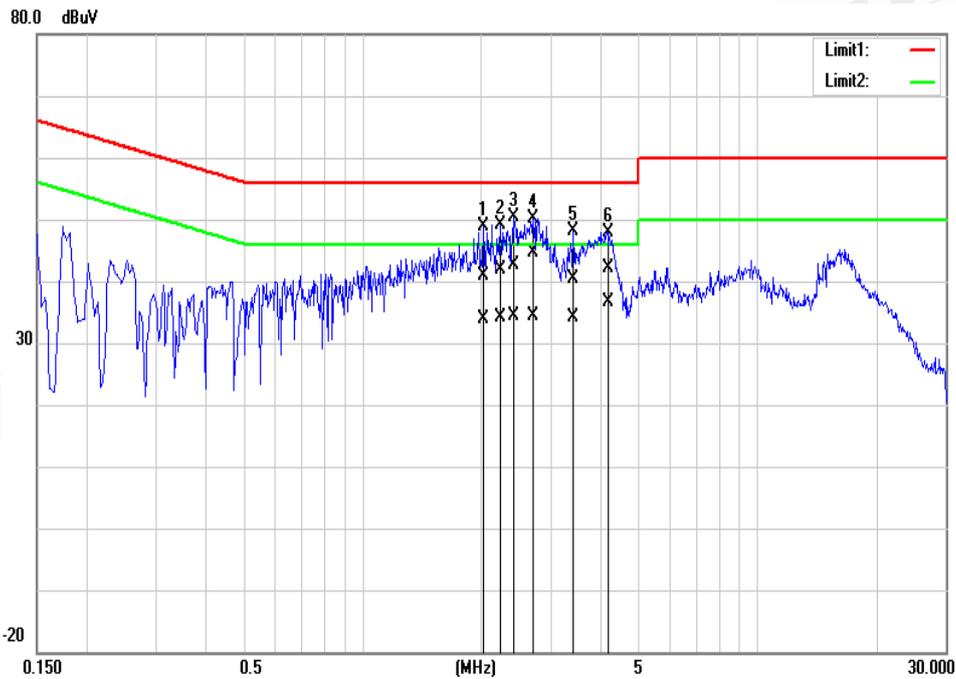
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2.4.3 Measurement Data:

Model no.	HSN-C10C	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2020/09/07
Test Mode	Mode 39	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



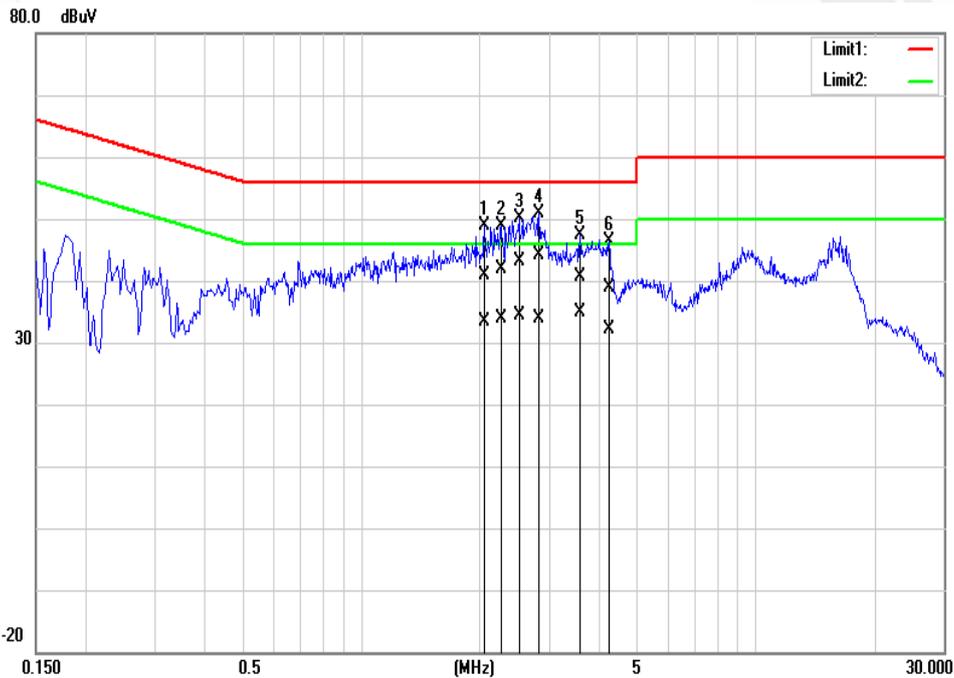
NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	2.0300	31.08	24.06	9.72	40.80	33.78	56.00	46.00	-15.20	-12.22	Pass
2	2.2420	32.21	24.49	9.72	41.93	34.21	56.00	46.00	-14.07	-11.79	Pass
3	2.4260	32.94	24.59	9.73	42.67	34.32	56.00	46.00	-13.33	-11.68	Pass
4	2.7180	34.81	24.69	9.74	44.55	34.43	56.00	46.00	-11.45	-11.57	Pass
5	3.4220	30.51	24.49	9.75	40.26	34.24	56.00	46.00	-15.74	-11.76	Pass
6*	4.1979	32.34	26.75	9.77	42.11	36.52	56.00	46.00	-13.89	-9.48	Pass

Note: L1 = Line One (Live Line)

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Model no.	HSN-C10C	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2020/09/07
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 (Pass/Fail)
1	2.0620	30.99	23.68	9.79	40.78	33.47	56.00	46.00	-15.22	-12.53	Pass
2	2.2700	32.17	24.00	9.79	41.96	33.79	56.00	46.00	-14.04	-12.21	Pass
3	2.5140	33.41	24.51	9.80	43.21	34.31	56.00	46.00	-12.79	-11.69	Pass
4	2.8340	34.33	24.06	9.80	44.13	33.86	56.00	46.00	-11.87	-12.14	Pass
5*	3.5900	30.89	25.10	9.82	40.71	34.92	56.00	46.00	-15.29	-11.08	Pass
6	4.2540	28.93	22.34	9.83	38.76	32.17	56.00	46.00	-17.24	-13.83	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 Ulab (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)					
Expanded uncertainty Ulab (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)					
Theory values uncertainty Ucispr 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 SOURCE	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

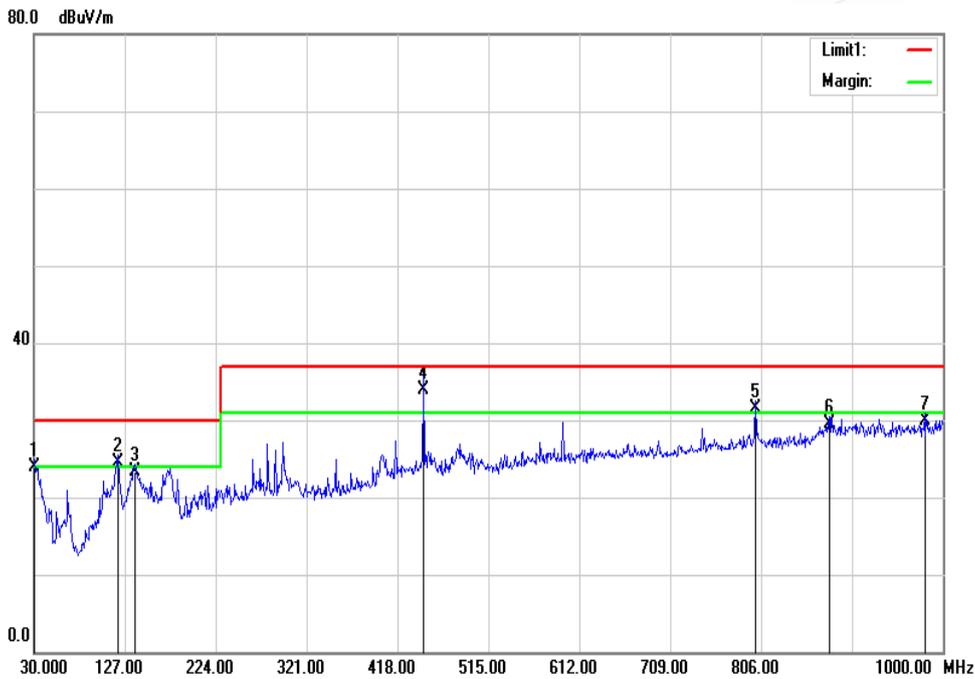
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2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-C10C	Test Mode	Mode 39
Environmental Conditions	23°C, 52% RH	Tested Date	2020/09/12
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	26.76	-2.83	23.93	30.00	-6.07	200	35	QP
2	119.2400	32.62	-8.10	24.52	30.00	-5.48	100	120	QP
3	137.6700	31.56	-8.35	23.21	30.00	-6.79	100	110	QP
4	445.1600	34.90	-0.93	33.97	37.00	-3.03	100	355	QP
5	800.1800	27.42	4.04	31.46	37.00	-5.54	399	360	QP
6	878.7500	24.62	4.93	29.55	37.00	-7.45	200	0	QP
7	980.6000	23.72	6.27	29.99	37.00	-7.01	200	0	QP

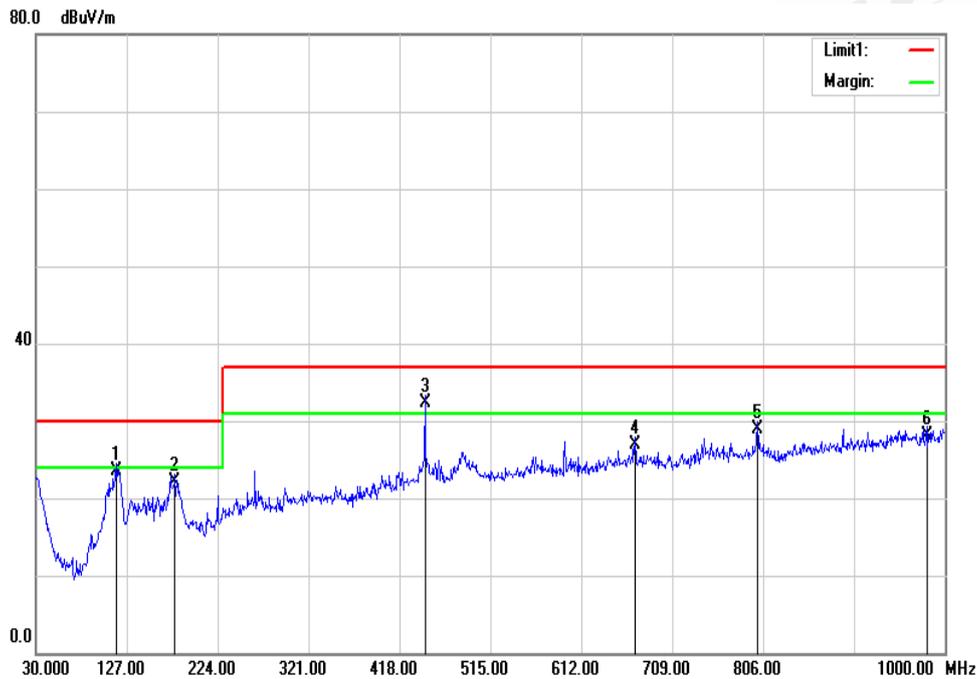
REMARKS:

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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Model no.	HSN-C10C	Test Mode	Mode 39
Environmental Conditions	23°C, 52% RH	Tested Date	2020/09/12
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	115.3600	32.25	-8.81	23.44	30.00	-6.56	400	346	QP
2	178.4100	32.79	-10.77	22.02	30.00	-7.98	399	0	QP
3	445.1600	34.96	-2.75	32.21	37.00	-4.79	200	163	QP
4	669.2300	26.82	0.14	26.96	37.00	-10.04	100	64	QP
5	800.1800	27.31	1.66	28.97	37.00	-8.03	100	3	QP
6	980.6000	23.65	4.55	28.20	37.00	-8.80	100	0	QP

REMARKS:

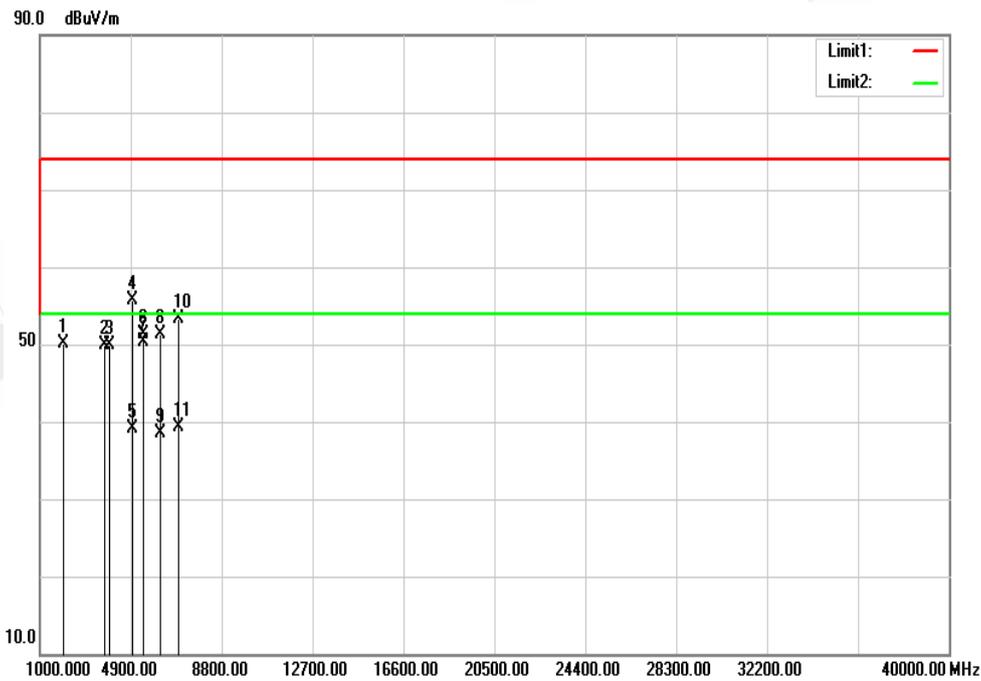
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Above 1GHz

Model no.	HSN-C10C	Test Mode	Mode 39
Environmental Conditions	23°C, 52% RH	Tested Date	2020/09/12
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	2003.000	65.14	-15.01	50.13	74.00	-23.87	100	296	peak
2	3737.000	61.04	-11.23	49.81	74.00	-24.19	200	269	peak
3	4000.500	61.05	-11.24	49.81	74.00	-24.19	100	290	peak
4	4978.000	64.38	-8.72	55.66	74.00	-18.34	100	111	peak
5	4978.000	47.88	-8.72	39.16	54.00	-14.84	100	111	AVG
6	5420.000	58.80	-7.46	51.34	74.00	-22.66	200	256	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	5420.000	57.68	-7.46	50.22	54.00	-3.78	200	256	AVG
8	6142.500	56.17	-4.79	51.38	74.00	-22.62	200	85	peak
9	6142.500	43.25	-4.79	38.46	54.00	-15.54	200	85	AVG
10	6916.000	56.92	-3.69	53.23	74.00	-20.77	100	322	peak
11	6916.000	43.03	-3.69	39.34	54.00	-14.66	100	322	AVG

REMARKS:

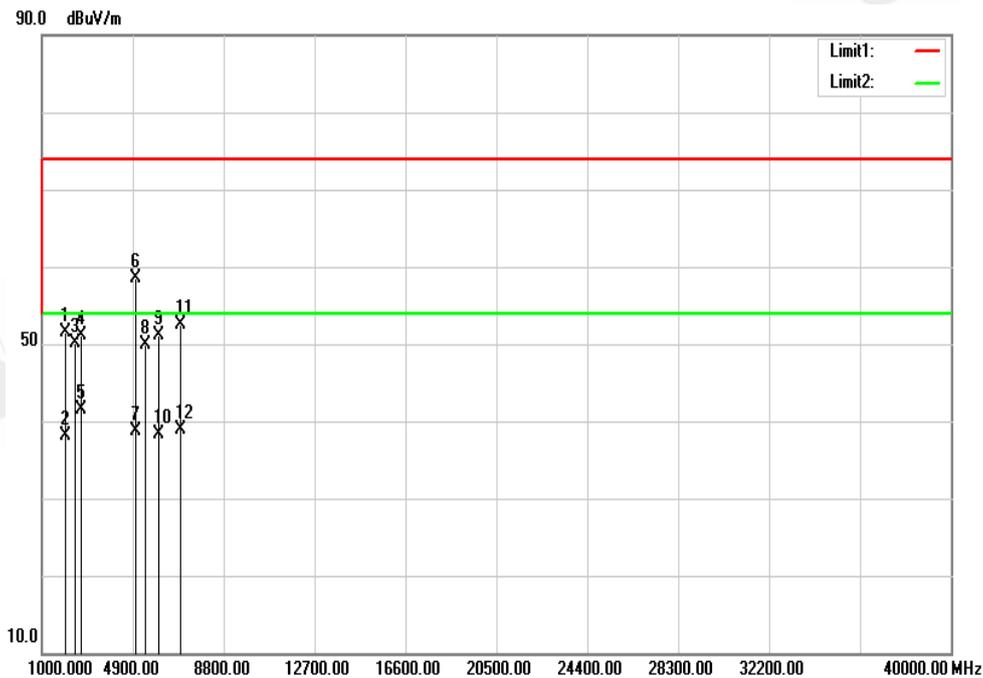
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-C10C	Test Mode	Mode 39
Environmental Conditions	23°C, 52% RH	Tested Date	2020/09/12
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	2003.000	66.52	-15.01	51.51	74.00	-22.49	100	261	peak
2	2003.000	53.15	-15.01	38.14	54.00	-15.86	100	261	AVG
3	2436.500	64.25	-14.23	50.02	74.00	-23.98	100	209	peak
4	2666.000	64.84	-13.67	51.17	74.00	-22.83	100	209	peak
5	2666.000	55.19	-13.67	41.52	54.00	-12.48	100	209	AVG
6	4995.000	67.20	-8.68	58.52	74.00	-15.48	100	57	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	47.40	-8.68	38.72	54.00	-15.28	100	57	AVG
8	5420.000	57.38	-7.46	49.92	74.00	-24.08	100	176	peak
9	5964.000	56.50	-5.36	51.14	74.00	-22.86	100	341	peak
10	5964.000	43.68	-5.36	38.32	54.00	-15.68	100	341	AVG
11	6967.000	56.02	-3.52	52.50	74.00	-21.50	100	248	peak
12	6967.000	42.45	-3.52	38.93	54.00	-15.07	100	248	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

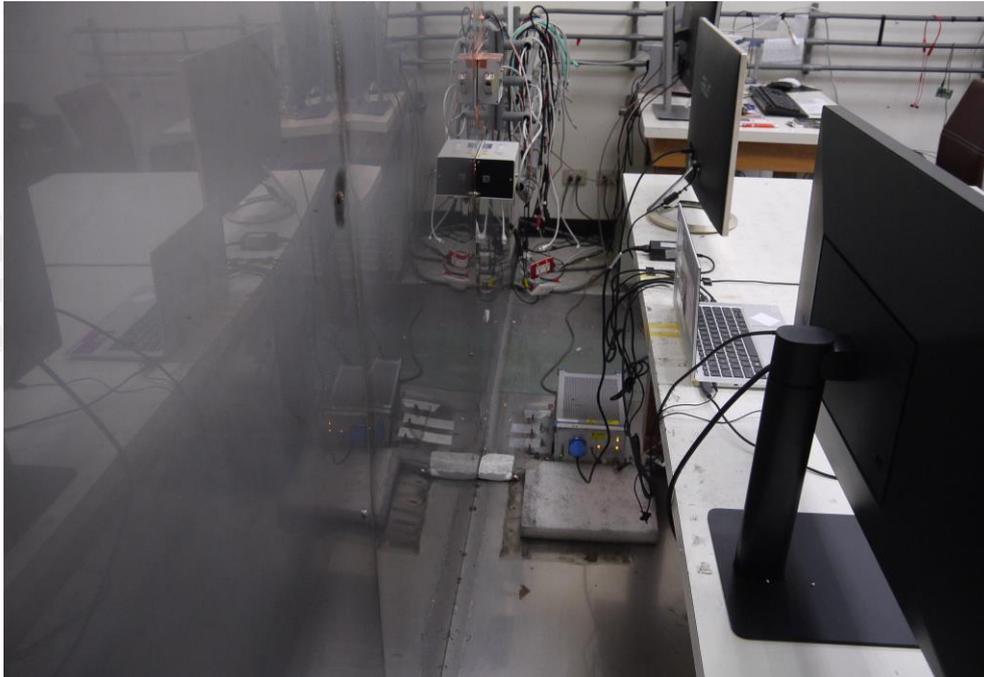
CE Testing Set-up

Model No.: HSN-C10C

Mode_39_+



Mode_39_-



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RE Testing Set-up

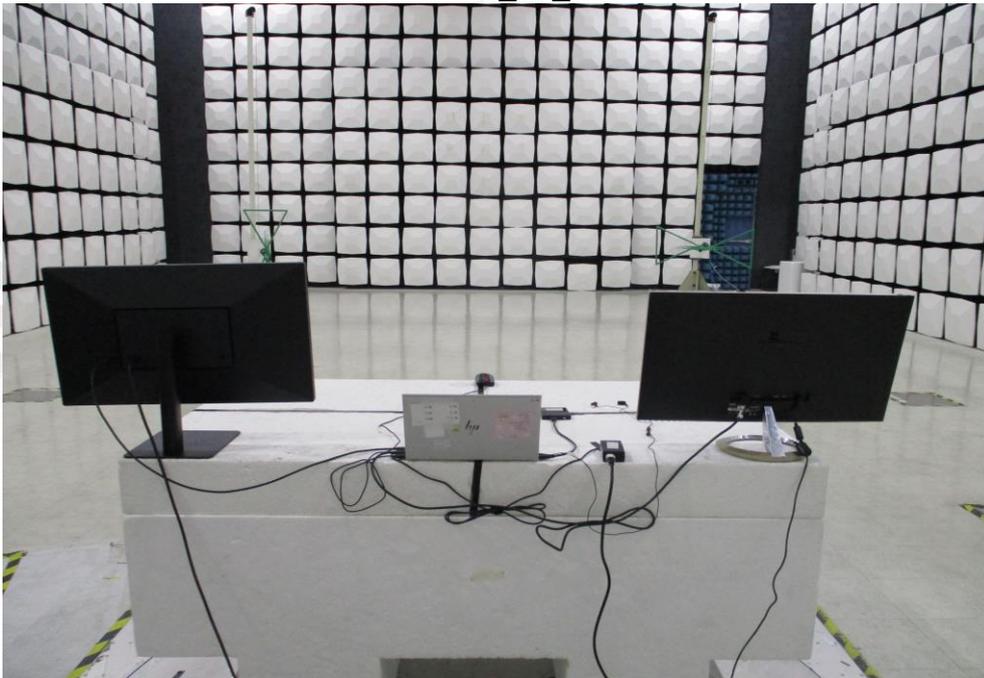
Below 1GHz

Model No.: HSN-C10C

Mode_39_+



Mode_39_-



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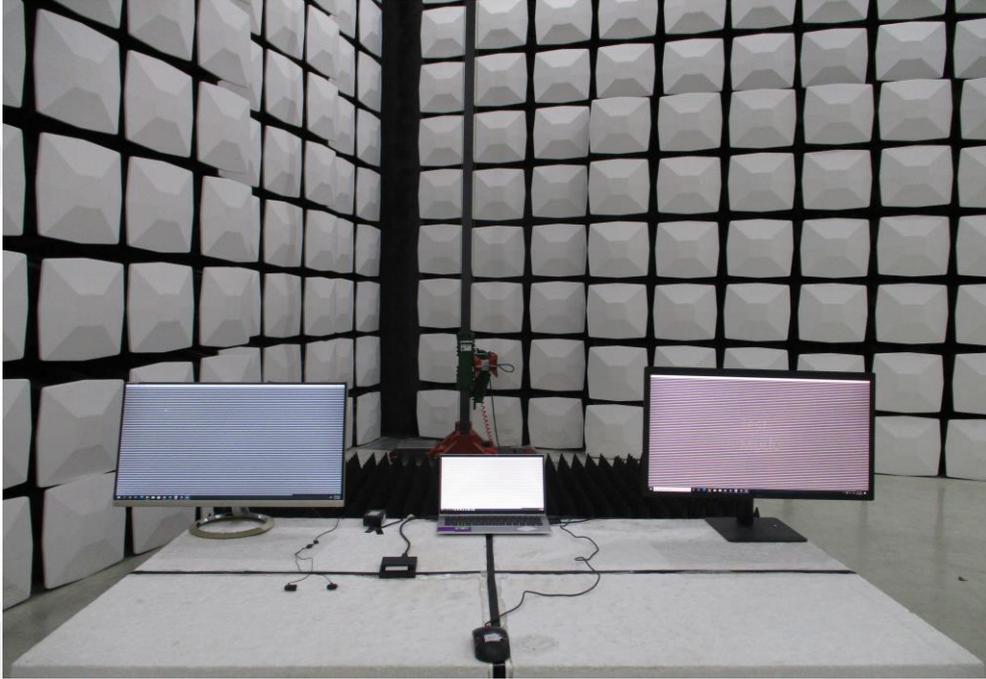
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SGS

Above 1GHz

Model No.: HSN-C10C

Mode_39_+



Mode_39_-



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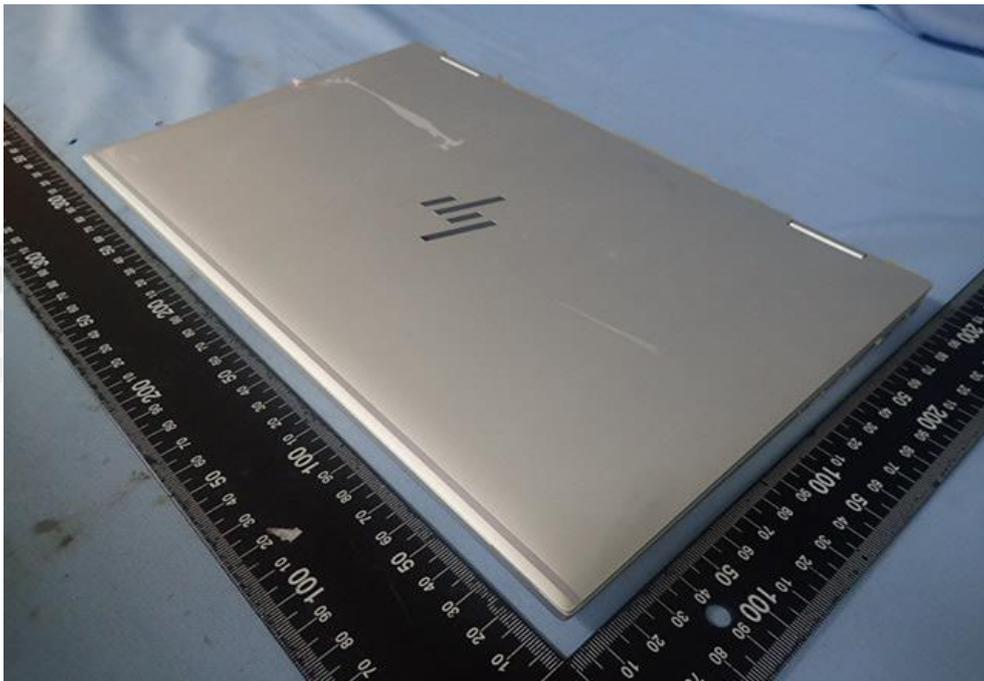
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4. Photographs of Product

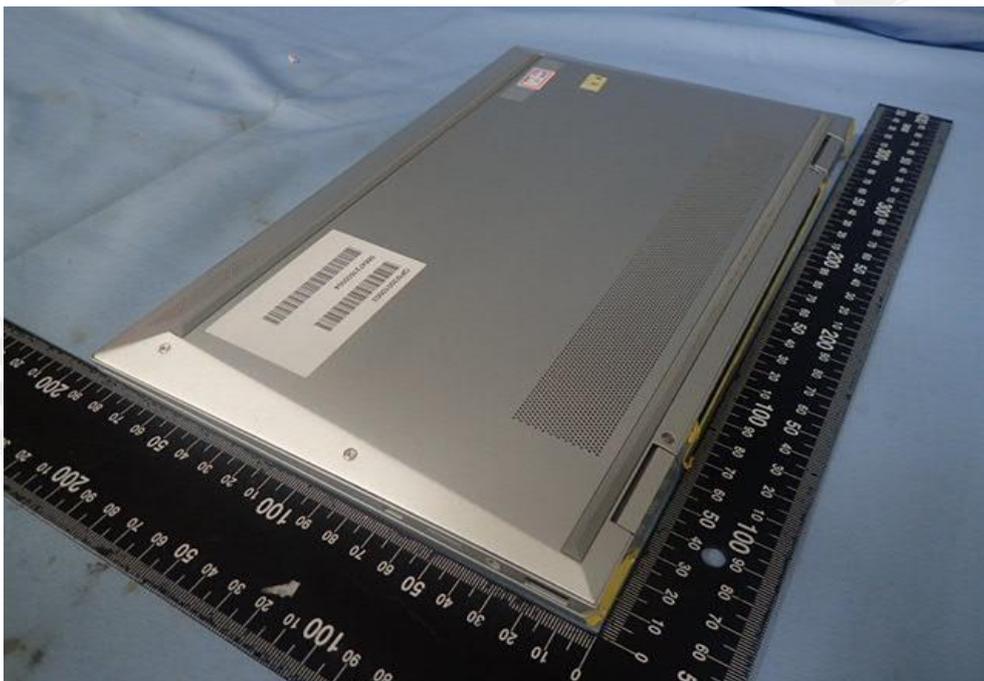
Exterior

Model No.: HSN-C10C



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Adapter Model No.: TPN-CA21



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Adapter Model No.: TPN-CA10



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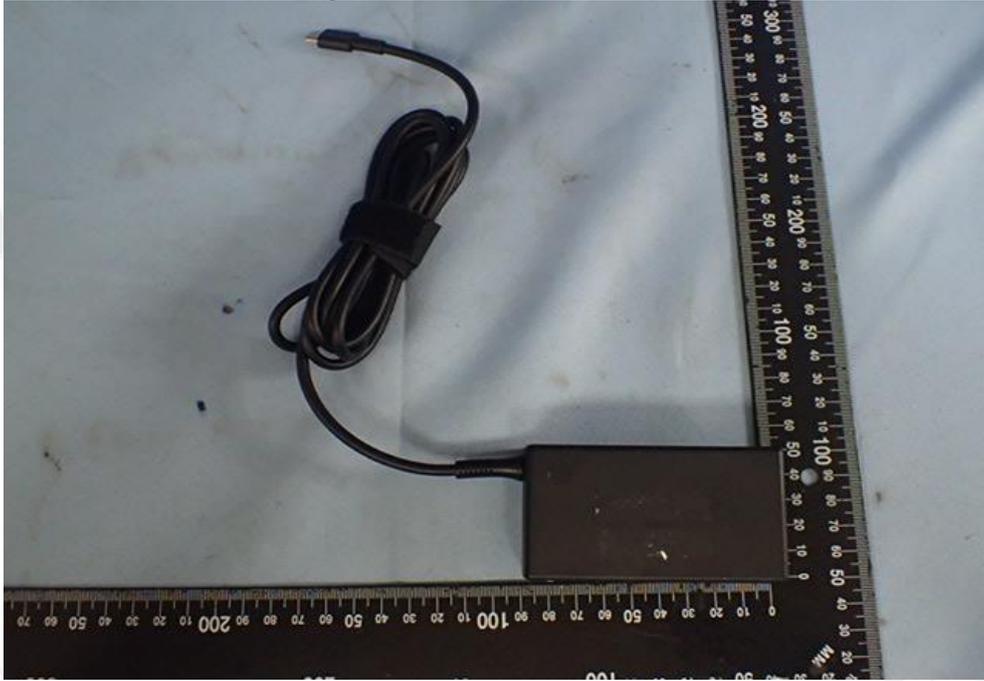
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Adapter Model No.: TPN-DA20



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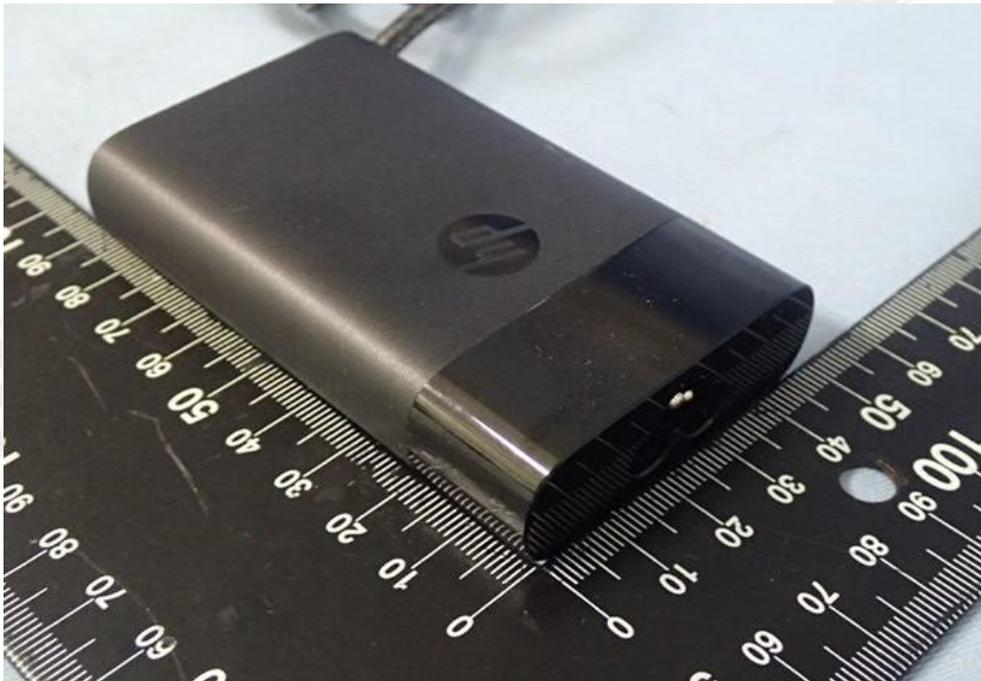
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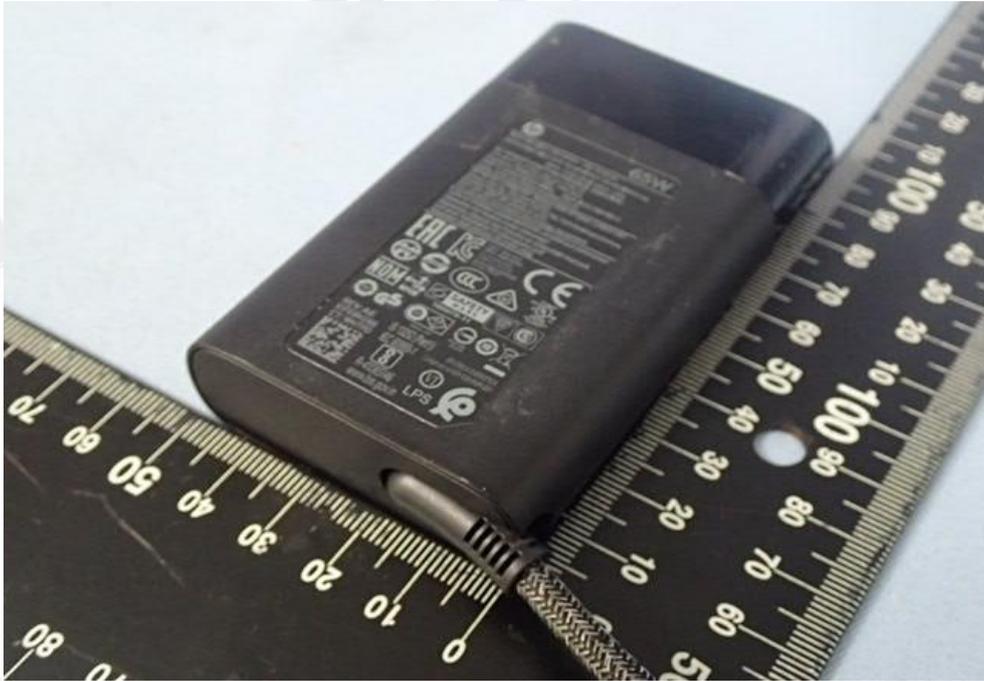
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Adapter Model No.: TPN-TA02



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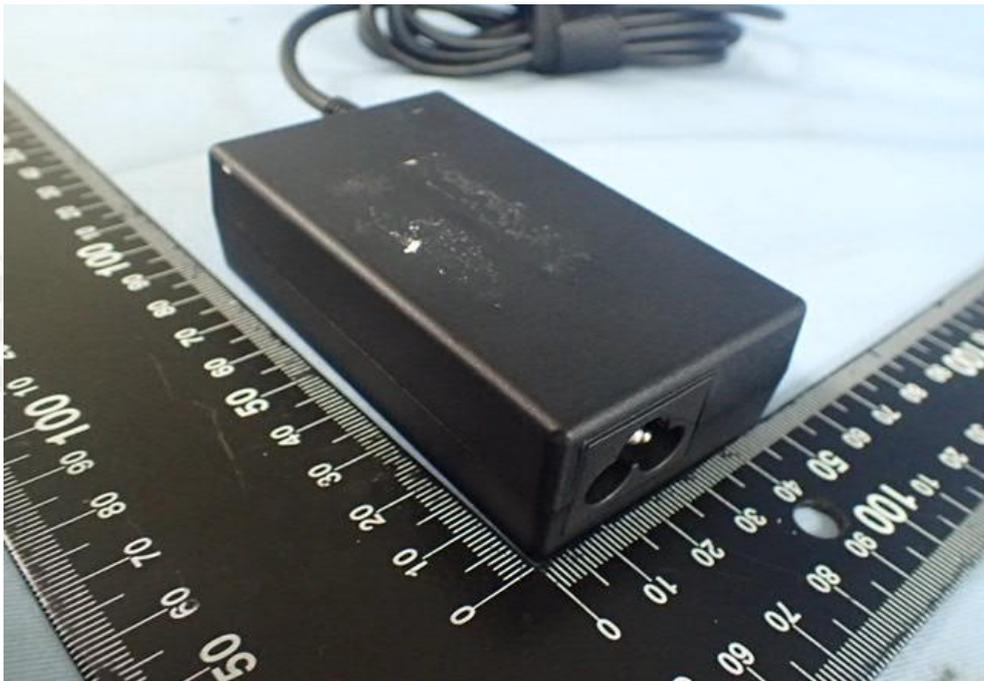
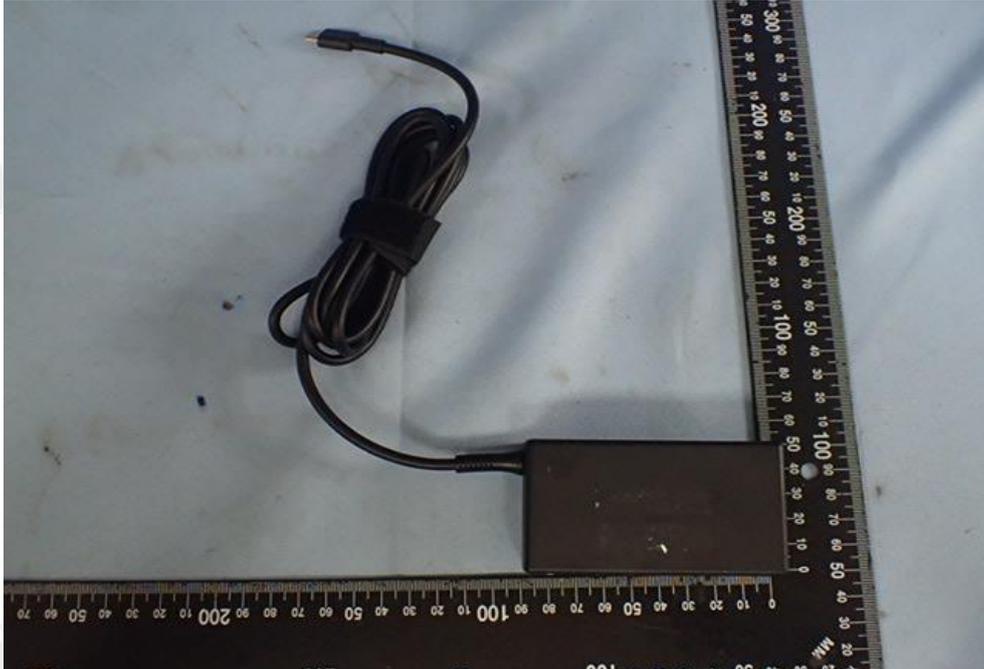
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Adapter Model No.: TPN-HA01



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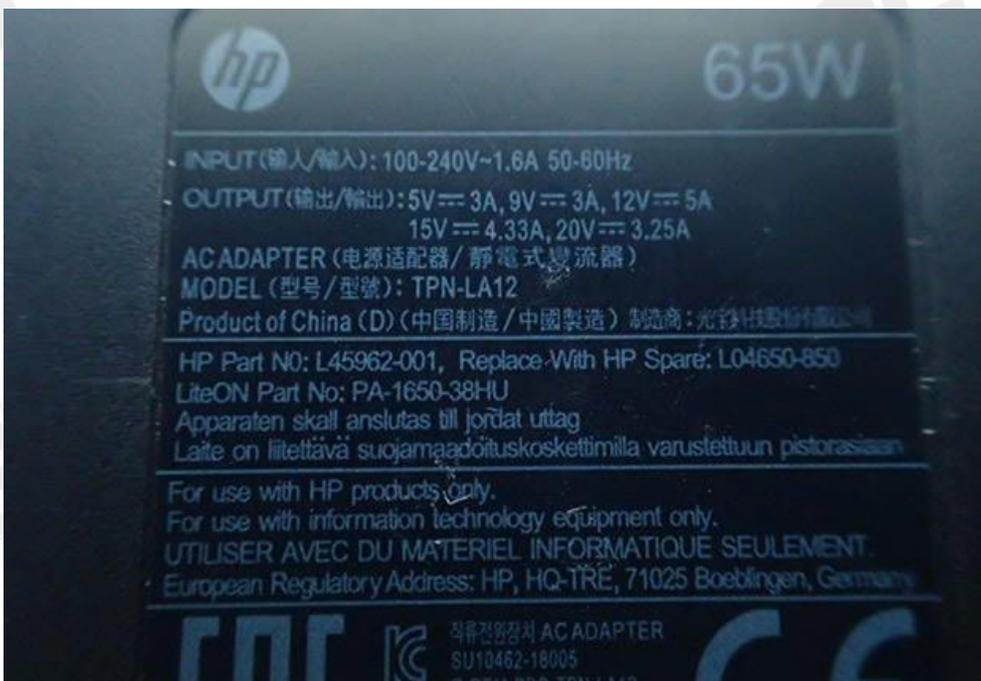
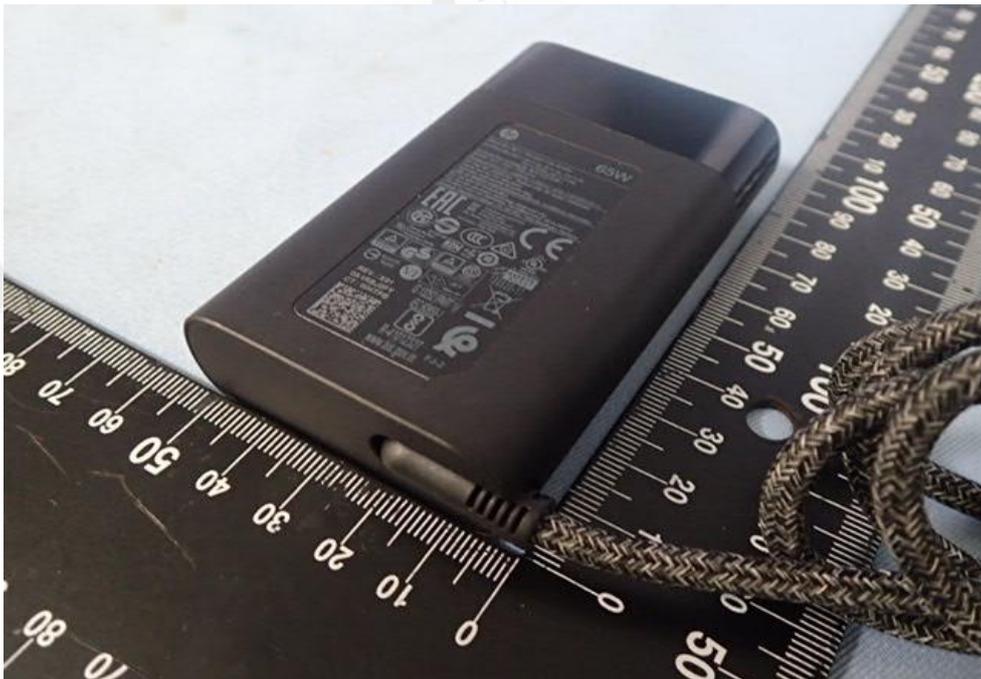
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Adapter Model No.: TPN-LA12



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