


FCC SDoC REPORT

Canada ISED ICES-003 TEST REPORT

Test Report No. : T200316E03-F
Applicant : COMPAL ELECTRONICS, INC.
Address : No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan
Manufacturer : Please refer to report page 4.
Address : Please refer to report page 4.
Equipment Under Test (EUT) :
Product Name : Notebook Computer
Brand Name :  HP, HP Inc.
Model No. : HSN-C05C
Added Model(s) : N/A
Standards : FCC Part 15, Subpart B, Class B
 ICES-003 Issue 6: 2016, Class B
Date of Sample Receipt : Mar. 24, 2020
Date of Test : Mar. 24 ~ 31, 2020
Date of Issue : Apr. 14, 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:

Hex Chiang

Date:

Apr. 14, 2020



Hex Chiang (Asst. Section Manager)

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Revision History

Revision	Description	Issue Date	Remark
00	Original	Apr. 14, 2020	T200316E03-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.
 2. COMPAL ELECTRONICS TECHNOLOGY (KUNSHAN) CO., LTD.
 3. ECMMS S A DE C V
 4. COMPAL DIGITAL TECHNOLOGY (KUNSHAN) CO., LTD.
 5. COMPAL EAD ELETRÔNICA DO BRASIL INDÚSTRIA E COMÉRCIO LTDA
 6. COMPAL (VIETNAM) CO., LTD.
 7. COMPAL ELECTRONICS (CHENGDU) CO., LTD.
 8. COMPAL ELECTRONICS (CHONGQING) CO., LTD.
 9. FOXCONN CMMMSG INDUSTRIA DE ELECTRONICOS LTDA.
- Address :
1. NO. 15, THIRD AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREETRADE ZONE, KUNSHAN, JIANGSU CHINA
 2. NO. 25, THIRD AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREETRADE ZONE, KUNSHAN, JIANGSU CHINA
 3. BLVD OSCAR FLORES SANCHEZ 8951, COL PUENTE ALTO, 32690 JUAREZ CHIH MEXICO
 4. NO.9, SECOND AVENUE, A ZONE, KUNSHAN COMPREHENSIVE FREE TRADE ZONE, KUNSHAN, JIANGSU CHINA
 5. 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. Ba Thien 1 Industrial Zone, Binh Xuyen District, Vinh Phuc Province, Vietnam
 7. NO. 88, SEC.1, ZONGBAO AVENUE, CHENGDU HI-TECH COMPREHENSIVE BONDED ZONE (SHUANGLIU), SHUANGLIU COUNTY, CHENGDU CITY, SICHUAN CHINA
 8. NO. D01, ZONE D, AIR PORT SECTION OF LIANGLU CUNTAN FREETRADE PORT AREA, YUBEI DISTRICT, CHONGQING CHINA
 9. 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, HP Inc.
 Model No. : HSN-C05C
 Added Model(s) : N/A
 Model Difference : N/A

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1.3 Details of EUT

Power Supply	AC 100~240V	
Highest operate description	1.8GHz	
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-DA20 I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
	For TPN-CA10 ; 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-TA02 ; TPN-HA01 I/P: 100-240Vac, 50/60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
AC Power Cord Type	Shielded, 1.5m (Detachable) to Power Adapter	
DC Power Cable Type	Unshielded, 1.5m (Non-Detachable) at Power Adapter	
Memory	DDR4 3733MHz (8GB / 16GB / 32GB / 64GB)	
	DDR4 4266MHz (8GB / 16GB / 32GB / 64GB)	
Main Board	Compal	LA-J442P
CPU	Intel	i5-10310U (1.7GHz)
		i7-10610U (1.8GHz)
		i5-10210U (1.6GHz)
		i7-10710U (1.1GHz)
		i7-10810U (1.1GHz)
13" Panel	AUO	B133HAN05.H
		B133ZAN02.A
	INX	N133HCG-GE3
	SDC	ATNA33TP01
ATNA33TP10		

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13" Panel	LGD	LP133WF9
	IVO	X133NVFF
M2. SSD	Kioxia	KXG60ZNV256G (256GB)
		KBG40ZNV256G (256GB)
		KXG6AZNV256G (256GB)
		KXG60ZNV512G (512GB)
		KBG40ZNV512G (512GB)
		KXG6AZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG50PNV2T04 (2TB)
		KXG60PNV2T04 (2TB)
	Micron	MTFDDAV256TDL-1AW15ABHA (256GB)
	Samsung	MZNLH128HBHQ-000H1 (128GB)
		MZVLB256HBHQ-000H1 (256GB)
		MZNLH256HAJD-000H7 (256GB)
		MZVLQ256HAJD-000H1 (256GB)
		MZVLB256HBHQ-000H7 (256GB)
		MZVLB512HBJQ-000H1 (512GB)
		MZVLQ512HALU-000H1 (512GB)
		MZVLB512HBJQ-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	SDBPNTY-256G-1006 (256GB)
		SDATN8Y-256G-1006 (256GB)

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M2. SSD	Western Digital	SDAPNUW-256G-1006 (256GB)
		SDBQNTY-256G-1006 (256GB)
		SDBPNTY-512G-1006 (512GB)
		SDAPNUW-512G-1006 (512GB)
		SDBQNTY-512G-1006 (512GB)
		SDBPNTY-1T00-1006 (1TB)
	Kingston	RBU-SNS8350DES3/128GP (128GB)
	Lite-On	CV8-8E128-HP (128GB)
	SanDisk	SD9SN8W-128G-1006 (128GB)
	Intel	HBRPEKNX0101AH (256GB)
	SSDPEKNW512G8H (512GB)	
	HBRPEKNX0202AH (512GB)	
Battery Pack	Simple	HSTNN-IB9H
		HSTNN-IB9J
Wireless LAN +BT	Intel	AX201D2W
WWAN+GPS	Fibocom	L850-GL
	Qualcomm	T99W175.16
Camera	Chicony	CKFJH5421004330LH
	TFC	YHSQ

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Pre-test Mode

Mode	CPU	Adapter	Main Board	Memory	13" Panel	M.2 SSD	Battery Pack	Wireless LAN +BT	WWAN+GPS	Camera
1	Intel i5-10310U (1.7GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 3733MHz 8GB	AUO B133HAN05.H	Kioxia KXG60ZNV256G (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
2	Intel i7-10610U (1.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 3733MHz 16GB	AUO B133ZAN02.A	Kioxia KBG40ZNV256G (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
3	Intel i5-10210U (1.6GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 3733MHz 32GB	INX N133HCG-GE3	Kioxia KXG6AZNV256G (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
4	Intel i7-10710U (1.1GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 3733MHz 64GB	SDC ATNA33TP01	Kioxia KXG60ZNV512G (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
5	Intel i7-10810U (1.1GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 4266MHz 8GB	SDC ATNA33TP10	Kioxia KBG60ZNV512G (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
6	Intel i7-10610U (1.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 4266MHz 16GB	LGD LP133WF9	Kioxia KXG6AZNV512G (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
7	Intel i5-10210U (1.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 4266MHz 32GB	IVO X133NVFF	Kioxia KXG60ZNV1T02 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
8	Intel i7-10710U (1.1GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 4266MHz 64GB	AUO B133HAN05.H	Kioxia KXG50PNV2T04 (2TB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
9	Intel i5-10310U (1.7GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 3733MHz 8GB	AUO B133ZAN02.A	Kioxia KXG60PNV2T04 (2TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
10	Intel i7-10610U (1.8GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 3733MHz 16GB	INX N133HCG-GE3	Micron MTFDDAV256TDL-1AW15ABHA (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
11	Intel i5-10210U (1.6GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 3733MHz 32GB	SDC ATNA33TP01	Samsung MZNLH128BHQ-000H1 (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
12	Intel i7-10710U (1.1GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 3733MHz 64GB	SDC ATNA33TP10	Samsung MZVLB256BHQ-000H1 (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
13	Intel i5-10310U (1.7GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 4266MHz 8GB	LGD LP133WF9	Samsung MZNLH256HJD-000H7 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
14	Intel i7-10610U (1.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 4266MHz 16GB	IVO X133NVFF	Samsung MZVLQ256HJD-000H1 (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
15	Intel i5-10210U (1.6GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 4266MHz 32GB	AUO B133HAN05.H	Samsung MZVLB256BHQ-000H7 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
16	Intel i7-10710U (1.1GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 4266MHz 64GB	AUO B133ZAN02.A	Samsung MZVLB512HBJQ-000H1 (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
17	Intel i5-10310U (1.7GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 3733MHz 8GB	INX N133HCG-GE3	Samsung MZVLQ512HALU-000H1 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
18	Intel i7-10610U (1.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 3733MHz 16GB	SDC ATNA33TP01	Samsung MZVLB512HBJQ-000H7 (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
19	Intel i5-10210U (1.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 3733MHz 32GB	SDC ATNA33TP10	Samsung MZVLB1TOHBLR-000H1 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
20	Intel i7-10710U (1.1GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 3733MHz 64GB	LGD LP133WF9	Samsung MZVLB2TOHALB-000H1 (2TB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
21	Intel i5-10310U (1.7GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 4266MHz 8GB	IVO X133NVFF	Hynix HFS256GD9TNG-L2A0A (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
22	Intel i7-10610U (1.8GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 4266MHz 16GB	AUO B133HAN05.H	Hynix HFM256GDJTN1-82A0A (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
23	Intel i5-10210U (1.6GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 4266MHz 32GB	AUO B133ZAN02.A	Hynix HFS12GD9TNG-L2A0A (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
24	Intel i7-10710U (1.1GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 4266MHz 64GB	INX N133HCG-GE3	Hynix HFM512GDJTN1-82A0A (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
25	Intel i5-10310U (1.7GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 3733MHz 8GB	SDC ATNA33TP01	Hynix HFS001TD9TNG-L2A0A (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH

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Mode	CPU	Adapter	Main Board	Memory	13" Panel	M.2 SSD	Battery Pack	Wireless LAN +BT	WWAN+GPS	Camera
26	Intel i7-10610U (1.8GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 3733MHz 16GB	SDC ATNA33TP10	Western Digital SDBPNTY-256G-1006 (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
27	Intel i5-10210U (1.6GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 3733MHz 32GB	LGD LP133WF9	Western Digital SDATN8Y-256G-1006 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
28	Intel i7-10710U (1.1GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 3733MHz 64GB	IVO X133NVFF	Western Digital SDAPNUW-512G-1006 (256GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
29	Intel i5-10310U (1.7GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 4266MHz 8GB	AUO B133HAN05.H	Western Digital SDBQNTY-256G-1006 (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
30	Intel i7-10610U (1.8GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 4266MHz 16GB	AUO B133ZAN02.A	Western Digital SDBPNTY-512G-1006 (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
31	Intel i5-10210U (1.6GHz)	Chicony(hp) TPN-CA21	Compal LA-J442P	DDR4 4266MHz 32GB	INX N133HCG-GE3	Western Digital SDAPNUW-512G-1006 (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
32	Intel i7-10710U (1.1GHz)	Chicony(hp) TPN-CA10	Compal LA-J442P	DDR4 4266MHz 64GB	SDC ATNA33TP01	Western Digital SDBQNTY-512G-1006 (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
33	Intel i5-10310U (1.7GHz)	Delta(hp) TPN-DA20	Compal LA-J442P	DDR4 3733MHz 8GB	SDC ATNA33TP10	Western Digital SDBPNTY-1T00-1006 (1TB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
34	Intel i7-10610U (1.8GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 3733MHz 16GB	LGD LP133WF9	Kingston RBU-SNS8350DES3/128GP (128GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
35	Intel i5-10210U (1.6GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 3733MHz 32GB	IVO X133NVFF	Lite-On CV8-8E128-HP (128GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
36	Intel i7-10710U (1.1GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 3733MHz 64GB	AUO B133HAN05.H	SanDisk SD9SN8W-128G-1006 (128GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
37	Intel i5-10310U (1.7GHz)	Artesyn TPN-TA02	Compal LA-J442P	DDR4 4266MHz 8GB	AUO B133ZAN02.A	Intel HBRPEKNX0101AH (256GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
38	Intel i7-10610U (1.8GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 4266MHz 16GB	INX N133HCG-GE3	Intel SSDPEKNW512G8H (512GB)	Simplo HSTNN-IB9J	Intel AX201D2W	Qualcomm T99W175.16	TFC YHSQ
39	Intel i5-10210U (1.6GHz)	Lite-On (hp) TPN-LA12	Compal LA-J442P	DDR4 4266MHz 32GB	SDC ATNA33TP01	Intel HBRPEKNX0202AH (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Fibocom L850-GL	Chicony CKFJH5421004330LH
40	Intel i7-10610U (1.8GHz)	Honor TPN-HA01	Compal LA-J442P	DDR4 4266MHz 8GB	LGD LP133WF9	Intel HBRPEKNX0202AH (512GB)	Simplo HSTNN-IB9H	Intel AX201D2W	Qualcomm T99W175.16	Chicony CKFJH5421004330LH

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 40 (1920 x 1080 Resolution)
RE	Mode 40 (1920 x 1080 Resolution)

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1.5 Description of Support Units

Mode 40:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
SIM Card	VIBO	N/A	N/A
HDD	WD	My Passport	WX21E54RD766
HDD	WD	My Passport	WX91A744F4NL
Earphone	Lenovo	GS-4021M	57Y4488
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
Notebook PC (Remote)	DELL	INSPIRON 640m	CN-0MG532-70166-75G-03AP
GPS Simulator (Remote)	IFR	GPS-101	N/A
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
Mouse	DELL	MS111-L	CN-0HRG26-44751-21U-05YA

Support Equipment Used in Tested Cable

Mode 40:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
USB HDD Cable (2)	N/A	0.5m	Shielding
Earphone Cable (3)	N/A	1.8m	Non-Shielding
Type C Cable (4)	N/A	1.0m	Shielding
DC Power Cable (5)	N/A	1.5m	Non-Shielding
USB Cable (6)	N/A	1.8m	Shielding

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1.6 Operation Procedure

Mode 40:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “Burnin Test v8.1” test software.
3. The EUT executes the “Burnin Test v8.1” software and reads and writes via HDD.
4. The EUT execute the “Burnin Test v8.1” software to send “H” Pattern to display on the screen.
5. Executed AMCAP2 software to turn-on the Camera.
6. The EUT will receive the BT signal source by Notebook PC.
7. The EUT will receive the WIFI signal source by Wireless AP.
8. The EUT will receive the RF signal source and sustained action.
9. The EUT will receive the GPS 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..

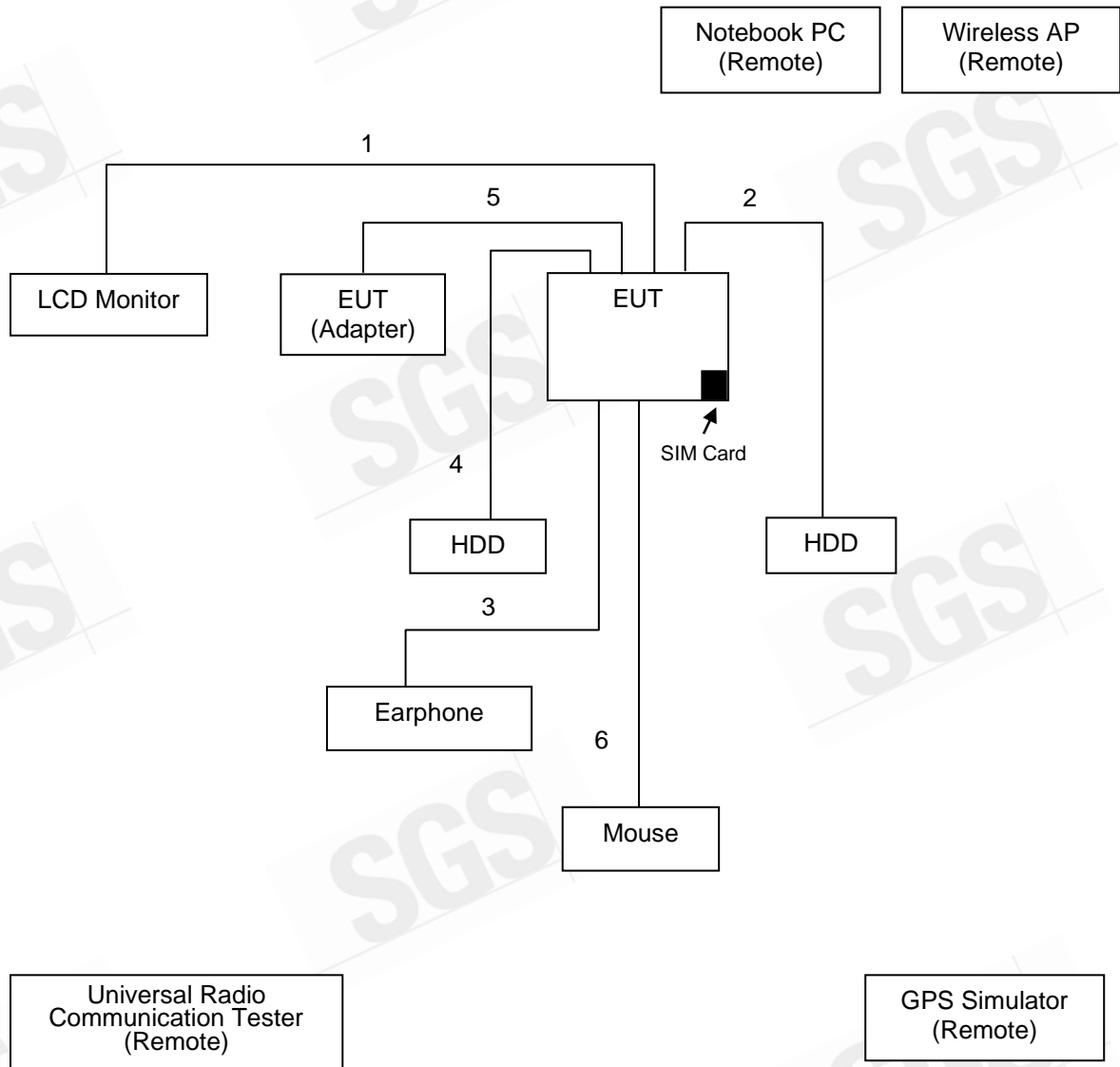
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1.8 Test Set-Up Configuration

Mode 40:



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
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.

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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

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	07/18/2019	07/17/2020
LISN	R&S	ENV216	101054	05/02/2019	05/01/2020
LISN	Schwarzbeck	NSLK8128	5012	04/18/2019	04/17/2020
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					

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2.4.2 Operating Environment

Temperature : 22 degree C Humidity : 48%RH

Atmospheric Pressure : 992 mBar

2.4.3 Measurement Level Calculation

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

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

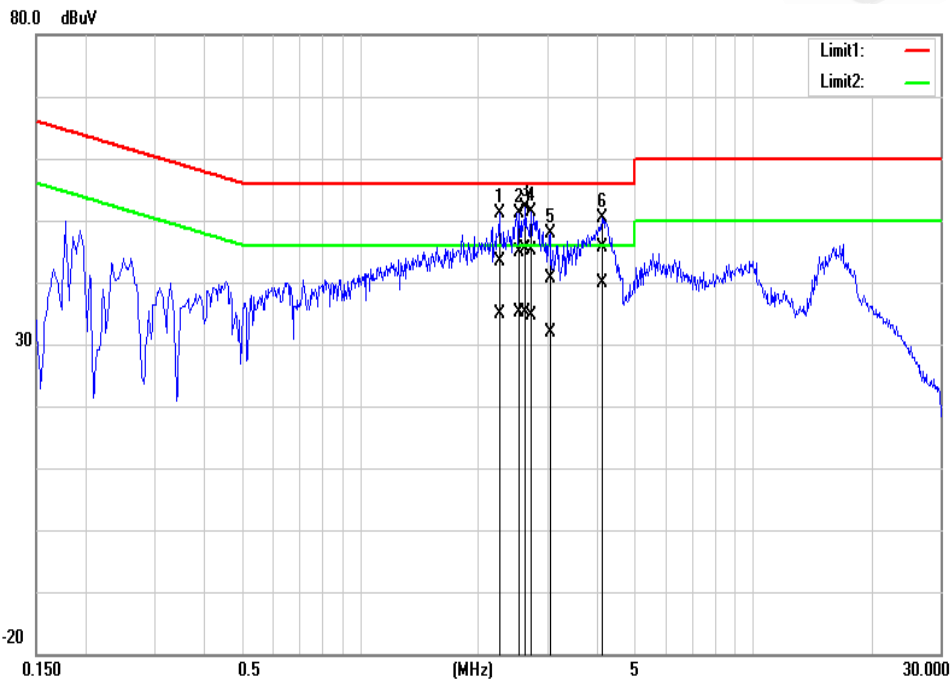
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2.4.4 Measurement Data:

Model no.	HSN-C05C	Line:	L1
Environmental Conditions	22°C, 48% RH	Tested Date	2020/03/24
Test Mode	Mode 40	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



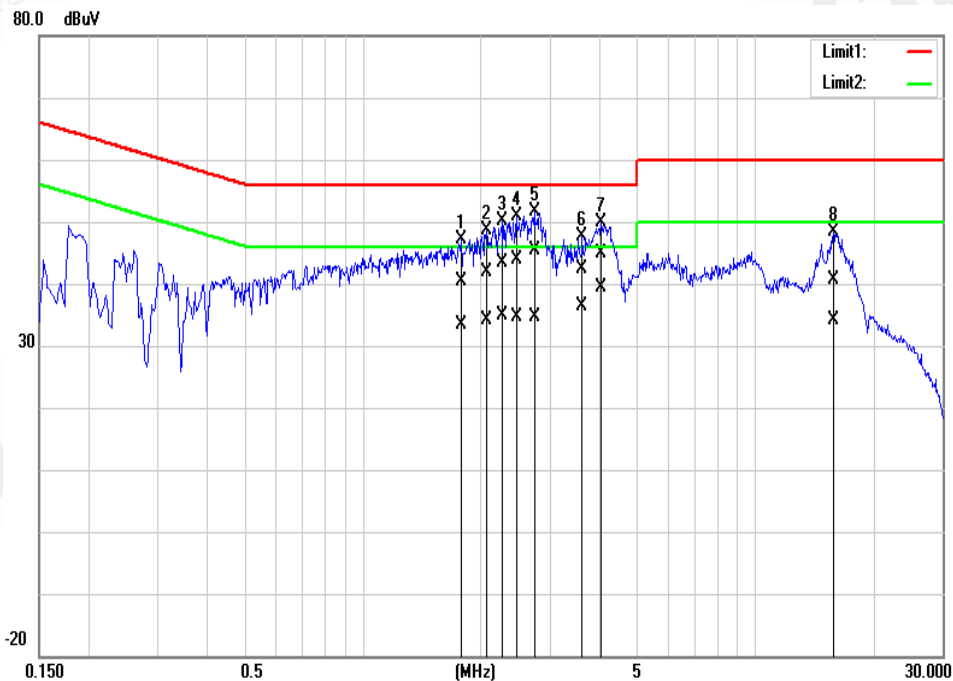
NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
1	2.2700	33.56	25.13	9.80	43.36	34.93	56.00	46.00	-12.64	-11.07	Pass
2	2.5460	35.08	25.35	9.81	44.89	35.16	56.00	46.00	-11.11	-10.84	Pass
3	2.6380	35.53	25.32	9.81	45.34	35.13	56.00	46.00	-10.66	-10.87	Pass
4	2.7260	35.29	24.73	9.81	45.10	34.54	56.00	46.00	-10.90	-11.46	Pass
5	3.0540	30.84	22.16	9.83	40.67	31.99	56.00	46.00	-15.33	-14.01	Pass
6*	4.1500	35.74	30.16	9.84	45.58	40.00	56.00	46.00	-10.42	-6.00	Pass

Note: L1 = Line One (Live Line)

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Model no.	HSN-C05C	Line:	L2
Environmental Conditions	22°C, 48% RH	Tested Date	2020/03/24
Test Mode	Mode 40	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	1.7900	30.57	23.51	9.84	40.41	33.35	56.00	46.00	-15.59	-12.65	Pass
2	2.0700	32.05	24.35	9.84	41.89	34.19	56.00	46.00	-14.11	-11.81	Pass
3	2.2700	33.55	25.14	9.84	43.39	34.98	56.00	46.00	-12.61	-11.02	Pass
4	2.4700	34.14	24.88	9.85	43.99	34.73	56.00	46.00	-12.01	-11.27	Pass
5	2.7500	35.43	24.70	9.85	45.28	34.55	56.00	46.00	-10.72	-11.45	Pass
6	3.6260	32.46	26.63	9.87	42.33	36.50	56.00	46.00	-13.67	-9.50	Pass
7*	4.0660	35.03	29.42	9.88	44.91	39.30	56.00	46.00	-11.09	-6.70	Pass
8	15.8700	30.56	23.99	10.09	40.65	34.08	60.00	50.00	-19.35	-15.92	Pass

Note: L2 = 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	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/30/2019	04/29/2020
EMI Test Receiver	R&S	ESCI	100961	06/20/2019	06/19/2020
EMI Test Receiver	R&S	ESCI	100962	06/24/2019	06/23/2020
Pre-Amplifier	HP	8447D	2944A07754	04/30/2019	04/29/2020
Pre-Amplifier	HP	8447D	2944A08150	04/30/2019	04/29/2020
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	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/30/2019	04/29/2020
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	04/30/2019	04/29/2020
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	06/18/2019	06/17/2020
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/27/2019	08/26/2020
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)					

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2.5.2 Operating Environment

Temperature : 20 & 25 degree C

Humidity : 58 %RH

Atmospheric Pressure : 996 mBar

2.5.3 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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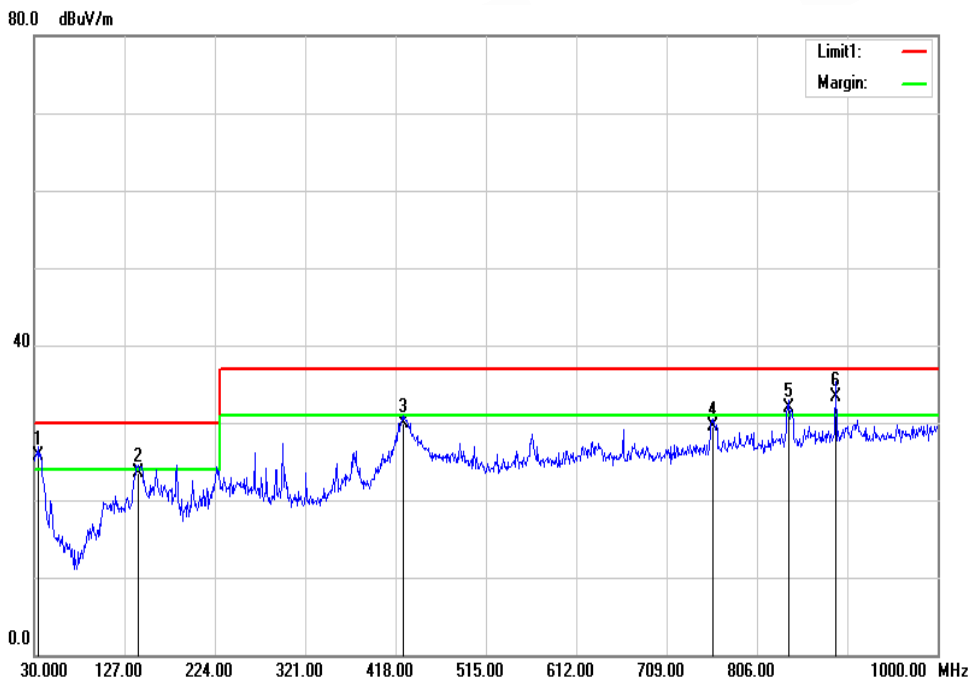
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2.5.4 Measurement Data

Below 1GHz

Model no.	HSN-C05C	Test Mode	Mode 40
Environmental Conditions	20°C, 58% RH	Tested Date	2020/03/31
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	34.8500	30.52	-4.72	25.80	30.00	-4.20	199	360	QP
2	141.5500	31.92	-8.42	23.50	30.00	-6.50	100	137	QP
3	425.7600	30.65	-0.82	29.83	37.00	-7.17	318	360	QP
4	758.4700	26.36	3.23	29.59	37.00	-7.41	199	359	QP
5	839.9500	27.72	4.23	31.95	37.00	-5.05	199	359	QP
6	890.1135	28.13	5.19	33.32	37.00	-3.68	211	0	QP

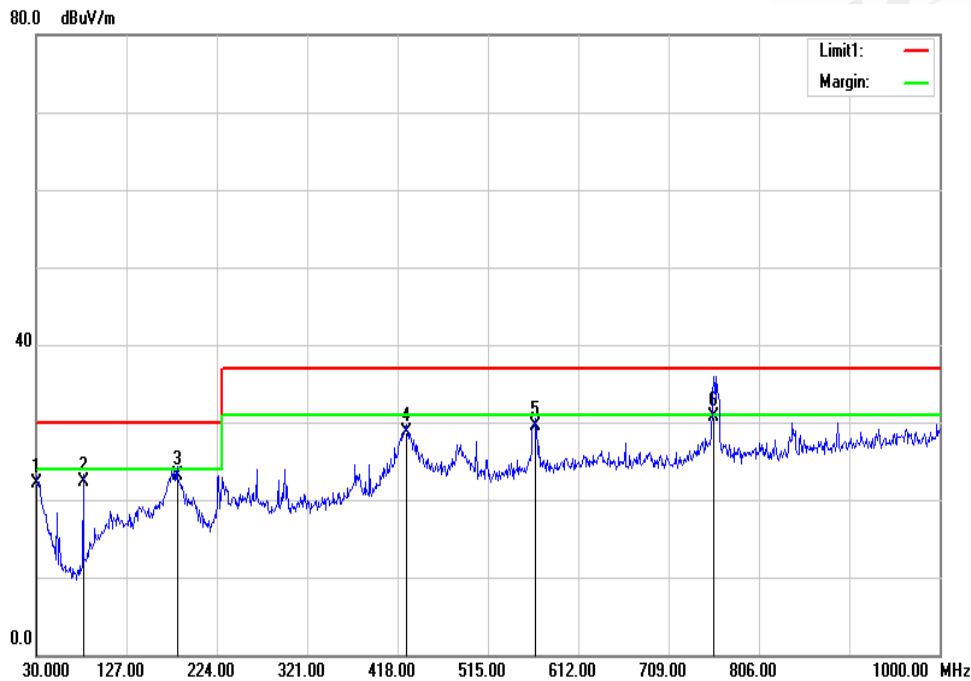
REMARKS:

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-C05C	Test Mode	Mode 40
Environmental Conditions	20°C, 58% RH	Tested Date	2020/03/31
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	30.9700	25.74	-3.58	22.16	30.00	-7.84	100	3	QP
2	80.4400	36.43	-14.15	22.28	30.00	-7.72	200	0	QP
3	181.3200	34.01	-10.81	23.20	30.00	-6.80	300	359	QP
4	427.7000	31.49	-2.84	28.65	37.00	-8.35	200	35	QP
5	565.4400	30.14	-0.65	29.49	37.00	-7.51	100	359	QP
6	757.7800	29.41	1.31	30.72	37.00	-6.28	298	0	QP

REMARKS:

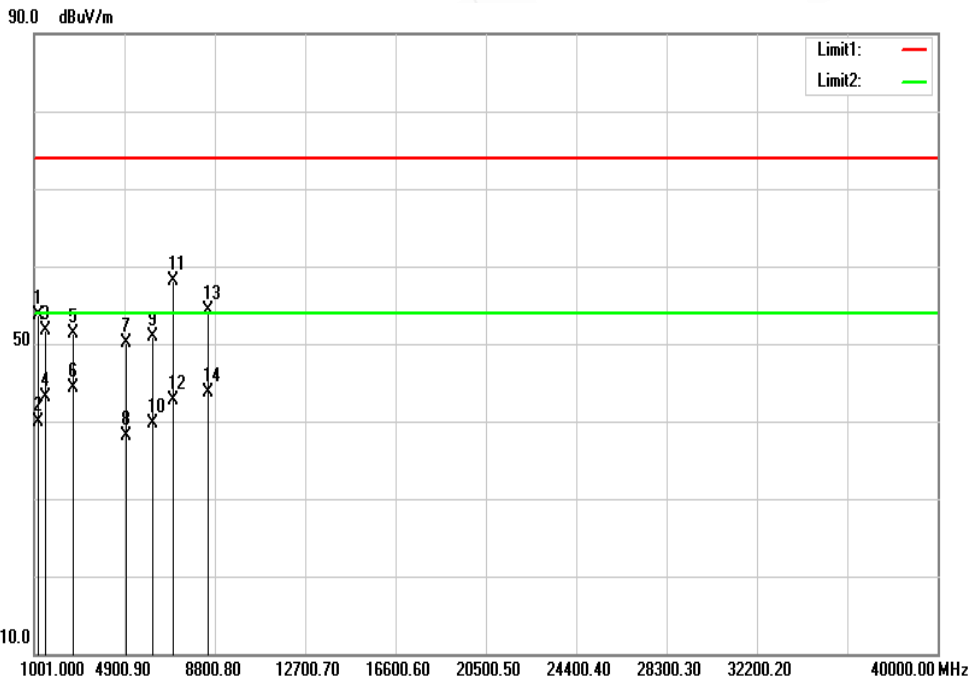
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Above 1GHz

Model no.	HSN-C05C	Test Mode	Mode 40
Environmental Conditions	25°C, 58% RH	Tested Date	2020/03/31
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	1.8GHz	Upper frequency	9GHz
Detector Function	Peak & Average.	Tested By	Lowka Chen
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	1200.000	73.03	-19.40	53.63	74.00	-20.37	200	138	peak
2	1200.000	59.22	-19.40	39.82	54.00	-14.18	200	138	AVG
3	1485.000	69.47	-17.70	51.77	74.00	-22.23	100	299	peak
4	1485.000	60.86	-17.70	43.16	54.00	-10.84	100	299	AVG
5	2665.000	64.67	-13.27	51.40	74.00	-22.60	200	167	peak
6	2665.000	57.52	-13.27	44.25	54.00	-9.75	200	167	AVG
7	4980.000	58.58	-8.56	50.02	74.00	-23.98	100	30	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
8	4980.000	46.72	-8.56	38.16	54.00	-15.84	100	30	AVG
9	6130.000	55.46	-4.55	50.91	74.00	-23.09	200	0	peak
10	6130.000	44.28	-4.55	39.73	54.00	-14.27	200	0	AVG
11	7000.000	61.62	-3.56	58.06	74.00	-15.94	100	214	peak
12	7000.000	46.20	-3.56	42.64	54.00	-11.36	100	214	AVG
13	8500.000	54.26	0.00	54.26	74.00	-19.74	300	299	peak
14	8500.000	43.77	0.00	43.77	54.00	-10.23	300	299	AVG

REMARKS:

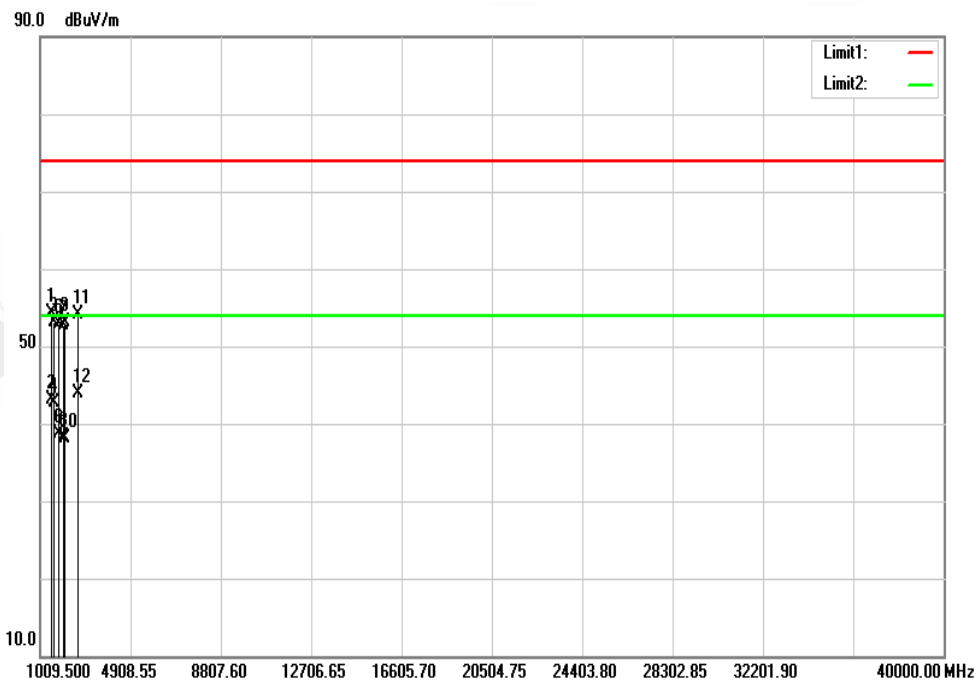
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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-C05C	Test Mode	Mode 40
Environmental Conditions	25°C, 58% RH	Tested Date	2020/03/31
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	1.8GHz	Upper frequency	9GHz
Detector Function	Peak & Average.	Tested By	Lowka Chen
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	1485.100	73.16	-18.87	54.29	74.00	-19.71	200	266	peak
2	1485.100	62.04	-18.87	43.17	54.00	-10.83	200	266	AVG
3	1600.000	71.27	-18.12	53.15	74.00	-20.85	300	100	peak
4	1600.000	60.80	-18.12	42.68	54.00	-11.32	300	100	AVG
5	1816.000	69.10	-16.27	52.83	74.00	-21.17	200	142	peak
6	1816.000	54.98	-16.27	38.71	54.00	-15.29	200	142	AVG
7	1998.000	67.21	-14.57	52.64	74.00	-21.36	200	67	peak
8	1998.000	52.79	-14.57	38.22	54.00	-15.78	200	67	AVG
9	2080.000	67.59	-14.45	53.14	74.00	-20.86	100	0	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
10	2080.000	52.61	-14.45	38.16	54.00	-15.84	100	0	AVG
11	2665.000	67.58	-13.38	54.20	74.00	-19.80	200	163	peak
12	2665.000	57.36	-13.38	43.98	54.00	-10.02	200	163	AVG

REMARKS:

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

The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.

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3. Photographs of Test

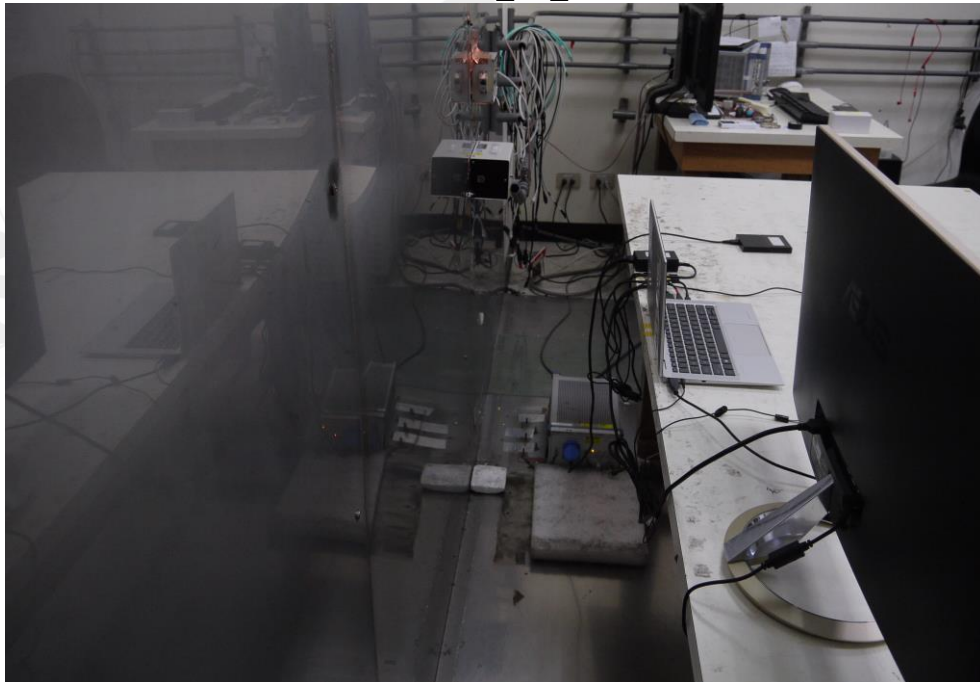
CE Testing Set-up

Model No.: HSN-C05C

Mode_40_+



Mode_40_-



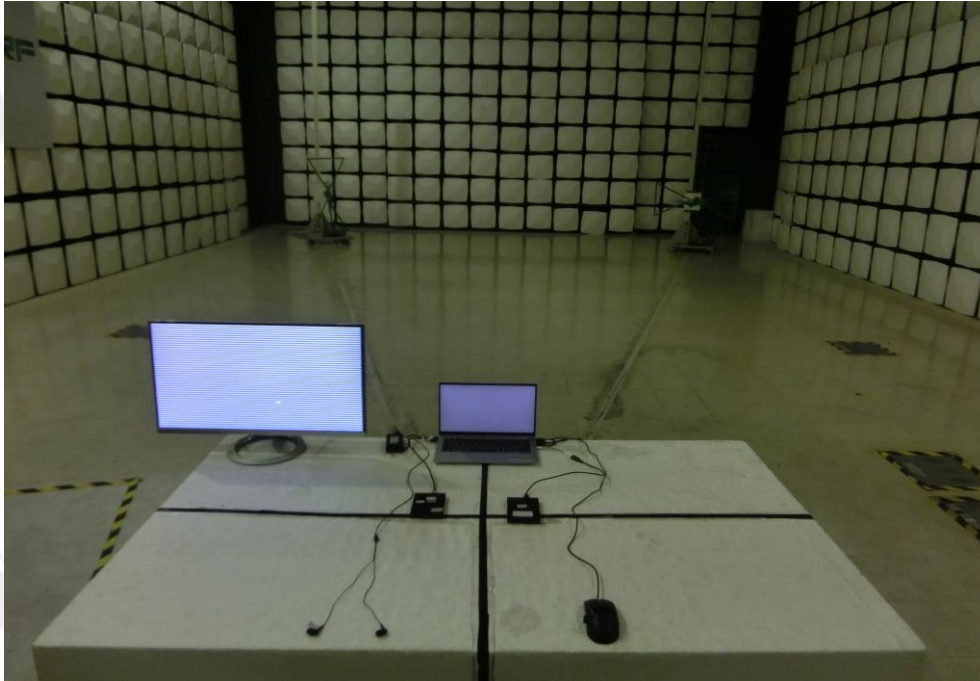
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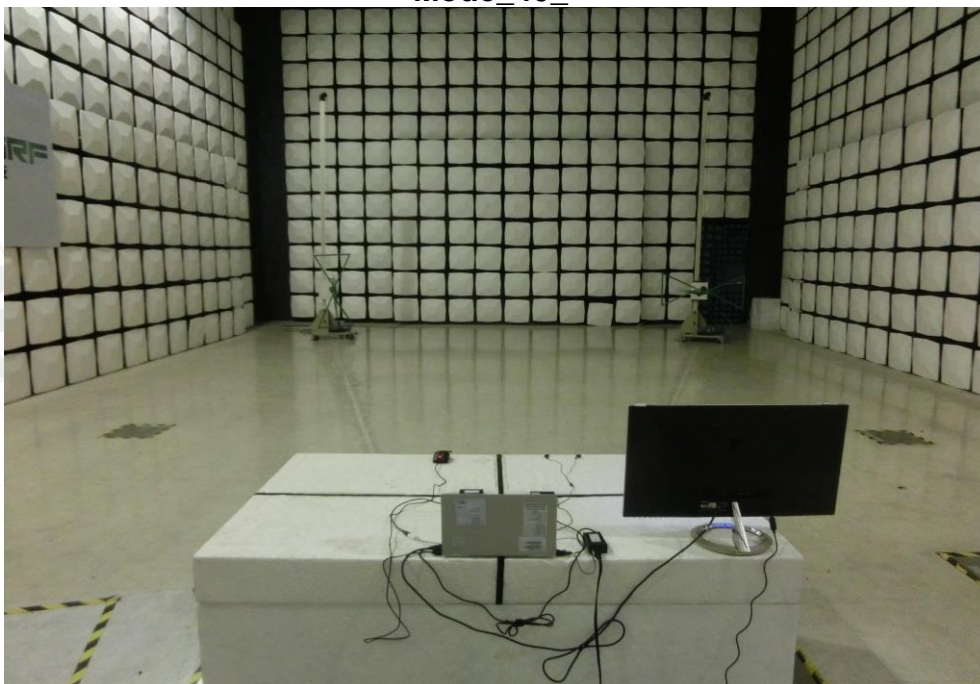
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**RE Testing Set-up
Below 1GHz**

**Model No.: HSN-C05C
Mode_40_+**



Mode_40_-



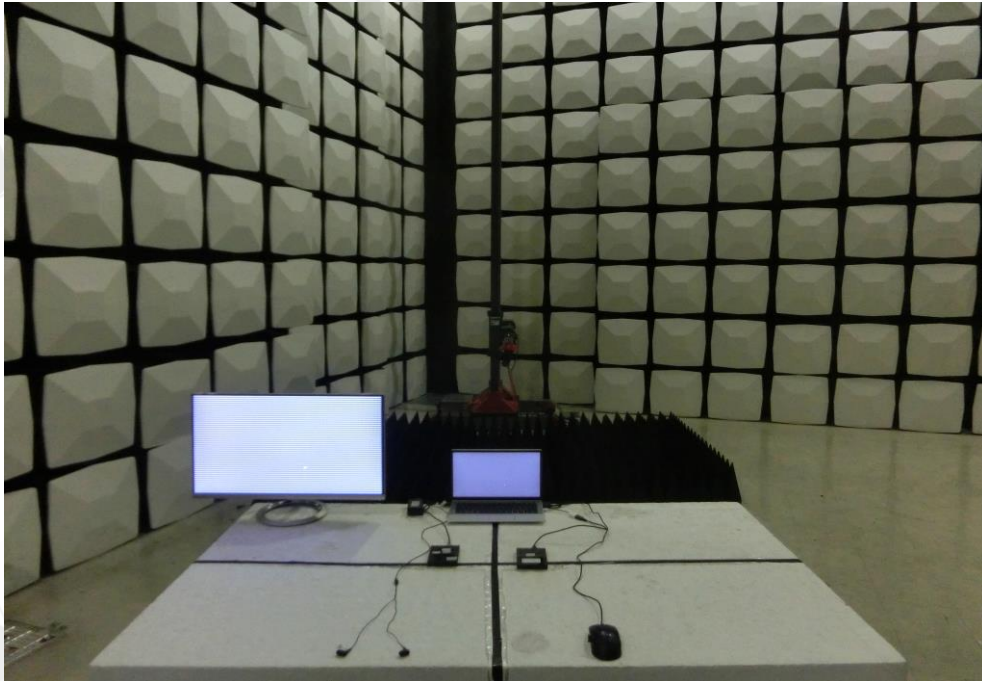
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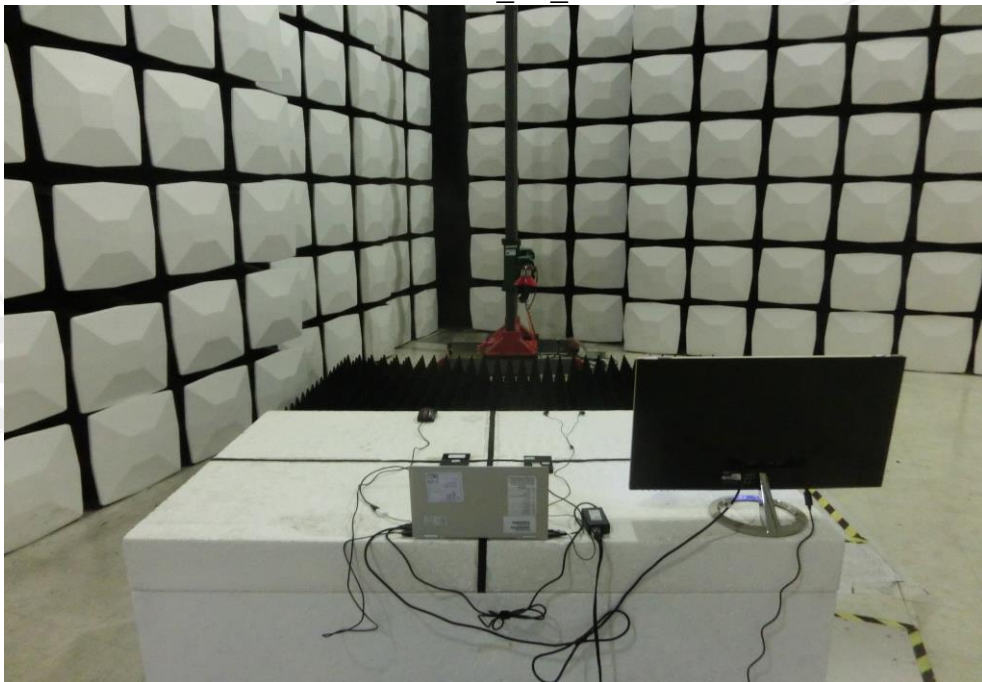
Above 1GHz

Model No.: HSN-C05C

Mode_40_+

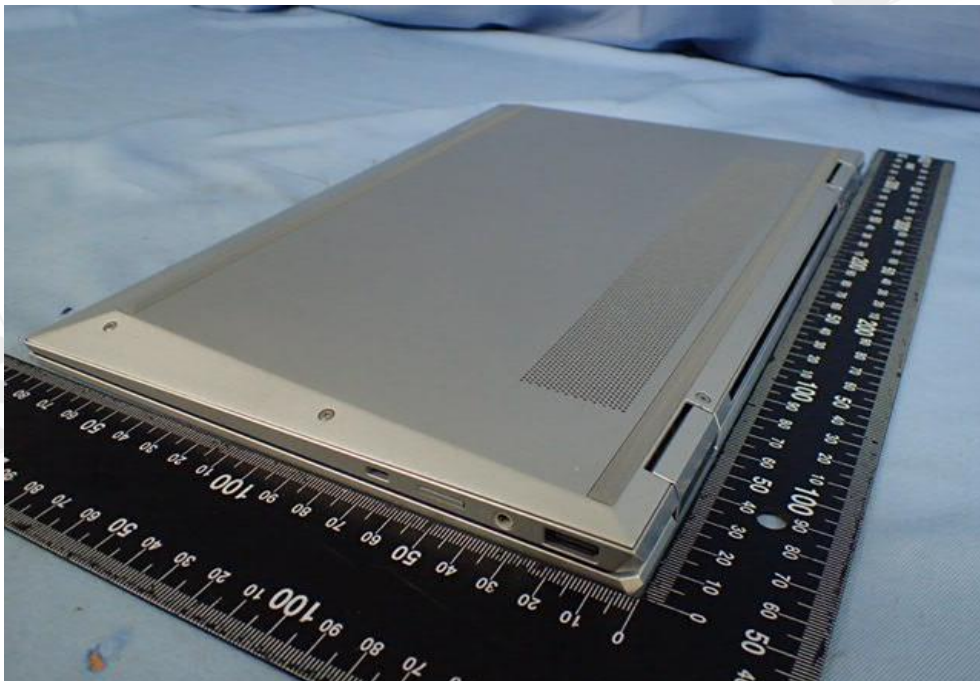


Mode_40_-



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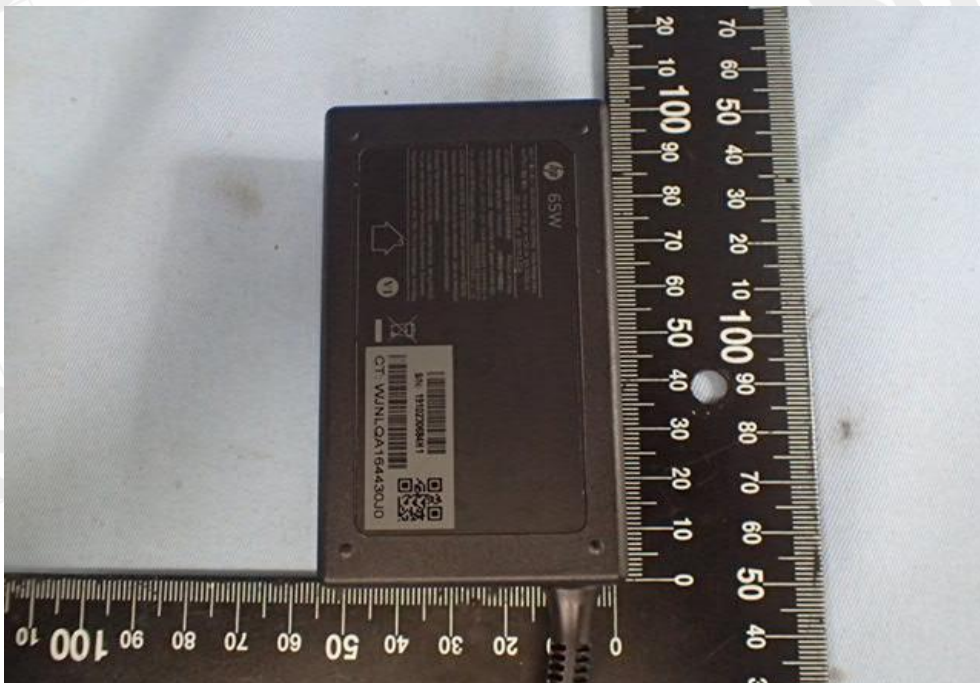
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Adapter Model No.: TPN-CA21



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Adapter Model No.: TPN-CA10



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Adapter Model No.: TPN-DA20



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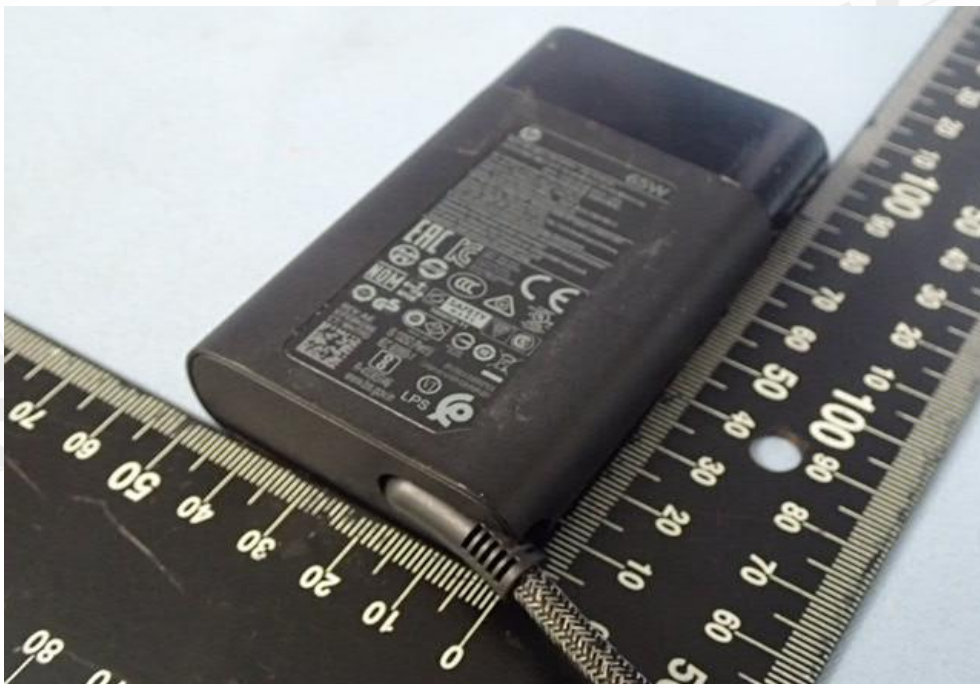
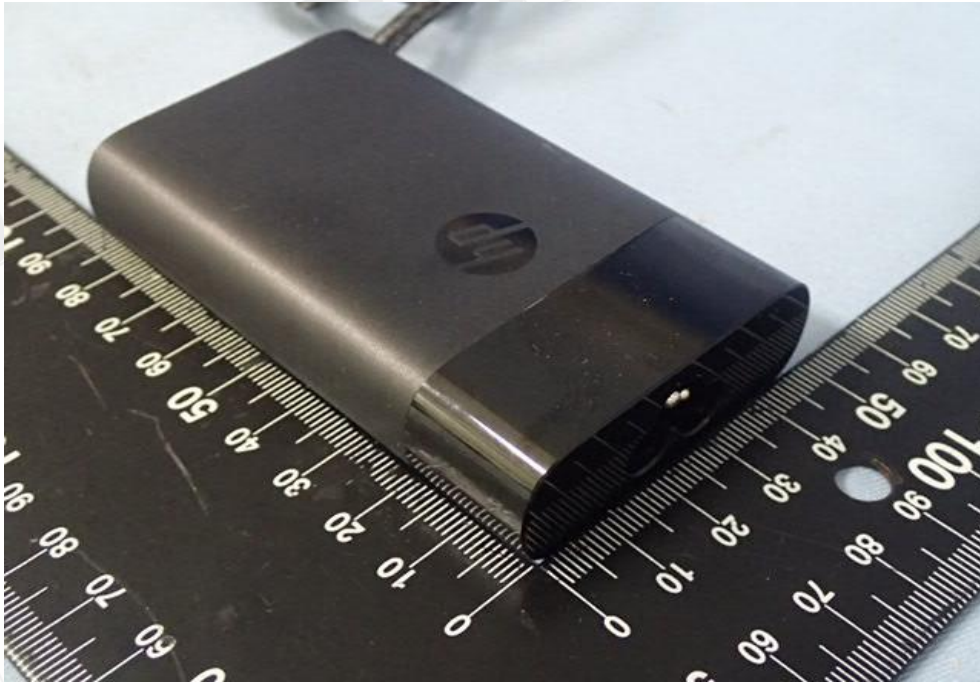
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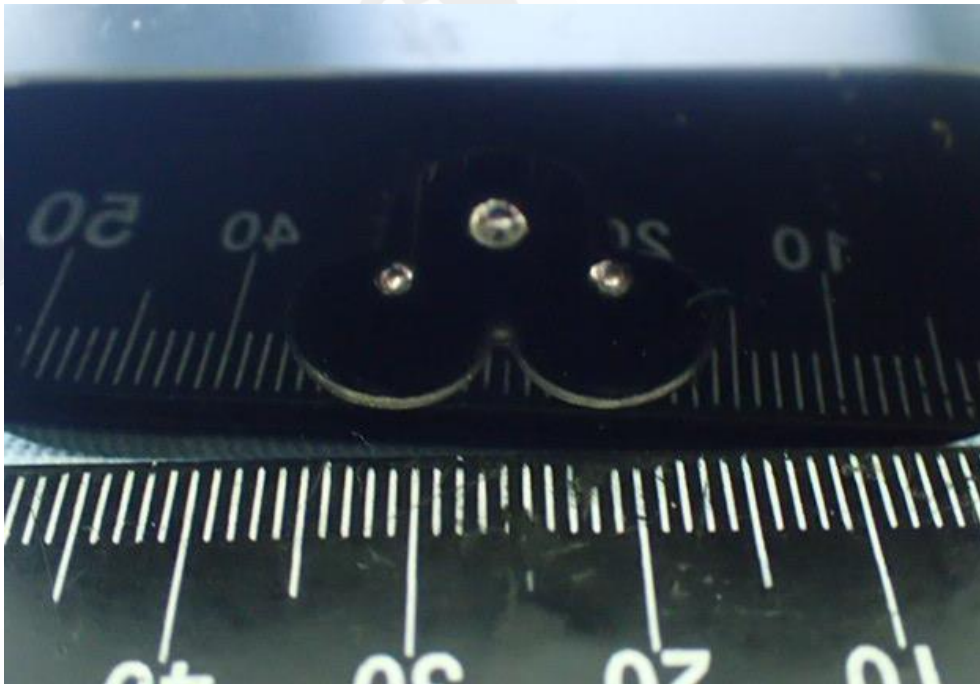
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Adapter Model No.: TPN-TA02



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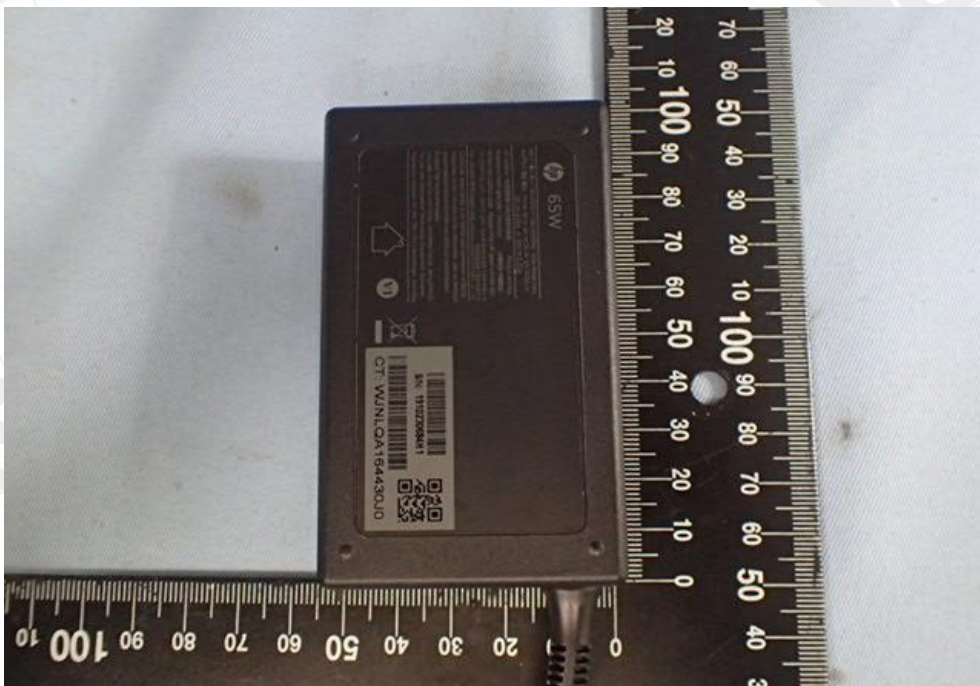
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Adapter Model No.: TPN-HA01



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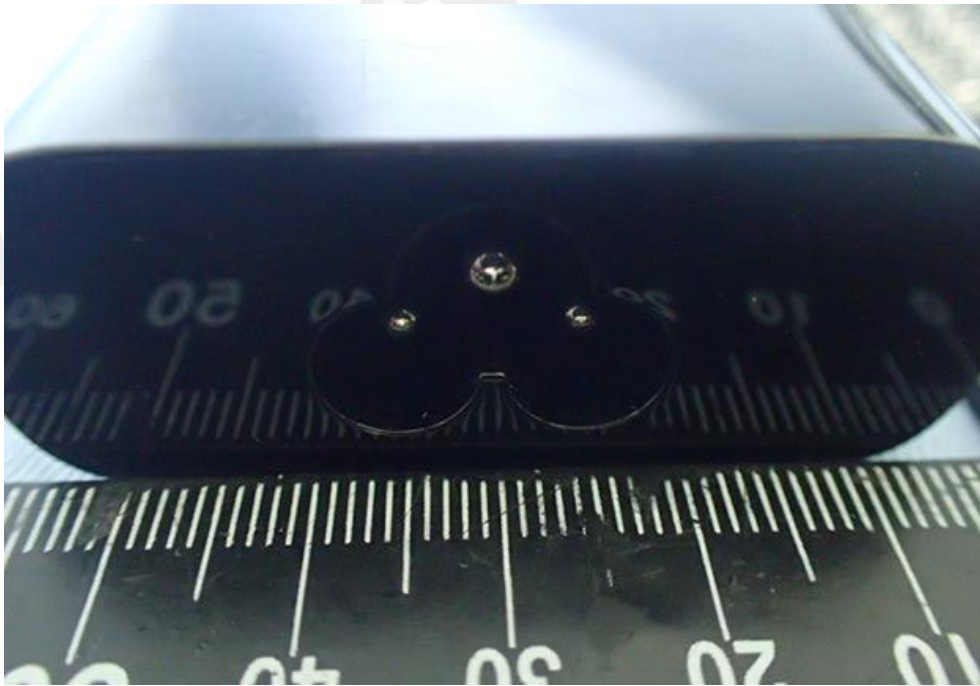
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Adapter Model No.: TPN-LA12



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