

FCC SDoC REPORT

ISED ICES-003 TEST REPORT

Based On Test Report No. : T191121L01-F

Applicant : INVENTEC CORPORATION
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.
Manufacturer : INVENTEC CORPORATION
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

Equipment Under Test (EUT) :

Product Name : Notebook Computer
Brand Name : HP
Model No. : HSN-I32C
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 : Jul. 24, 2020

Date of Test : Jul. 24 ~ 25, 2020

Date of Issue : Aug. 18, 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:

Aug. 18, 2020

Hex Chiang (Asst. Section Manager)



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Revision History

Revision	Description	Issue Date	Remark
00	Original.	Jul. 05, 2019	T190527L11-F
01	See the following Note Rev. (01)	Feb. 19, 2020	T191121L01-F
02	See the following Note Rev. (02)	May 12, 2020	T191121L01-F
03	See the following Note Rev. (03)	Aug. 18, 2020	T200723L09-F

Note:

Rev. (01):

1. Applicant adds keypart (Adapter、Main Board、CPU、SSD、Battery Pack、WWAN and CCD) to re-test. (Please refer to have ** mark items)
2. Other information, please refer to the T190527L11-F and this test report.

Rev. (02):

1. Applicant modifies keypart (Bluetooth) and reserve original test data as per customer requested. After the estimate, it is unnecessary to final tested. (Please refer to following tables and have ** mark items on this report for detail information)

Remove	WWAN	Fibocom	B830-GL
Added	Bluetooth	Fibocom	B830-GL

Rev. (03):

1. Applicant adds new of appearance and keypart (Main Board、CPU、SSD、Wireless LAN+Bluetooth Combo and CCD) to re-test. (Please refer to have ** mark items)
2. Other information, please refer to the T191121L01-F and this test report.

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1. General Information

1.1 Applicant & Manufacturer Information

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Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.
Manufacturer : INVENTEC CORPORATION
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

1.2 General Description of EUT

Product Name : Notebook Computer
Brand Name : HP
Model No. : HSN-I32C
Added Model(s) : N/A
Model Difference : See the following note.

Note:

1. There are several different VGA types (UMA & Discrete) for EUT. Please refer to the following table:

VGA type	Main Board	CPU
WHL	Inventec / 6050A3074401	Intel / i3-8145U 2.1GHz Intel / i5-8265U 1.6GHz Intel / i5-8365U 1.6GHz Intel / i7-8565U 1.8GHz Intel / i7-8665U 1.9GHz
CML	Inventec / 6050A3137101	Intel / i3-10110U 2.1GHz Intel / i5-10210U 1.6GHz Intel / i7-10510U 1.8GHz Intel / i7-10710U 1.1GHz
TGL	Inventec / 6050A3218601	Intel / i3-1115G4 3.0GHz Intel / i5-1135G7 2.4GHz Intel / i5-1145G7 2.6GHz Intel / i7-1165G7 2.8GHz Intel / i7-1185G7 3.0GHz

2. According to customer declaration, there are two types for sale with same model number. Please refer to the I/O Port table and the external photographs for the detail information.

Type	Micro SD Port
1	O
2	X

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1.3 Details of EUT

Power Supply	AC 100 ~ 240V	
Highest operate description	3.0GHz	
Duckhead Type	2pin / 3pin	
Adapter	Chicony (hp)	TPN-CA06
		TPN-CA10
		TPN-CA21
	Acbel (hp)	TPN-AA03
	Artesyn (hp)	TPN-TA02
	Lite-on (hp)	TPN-LA12
	Delta (hp)	TPN-DA20
	Honor (hp)	TPN-HA01
Adapter Power Rating	For TPN-CA06 ; TPN-AA03 I/P: 100-240VAC, 50-60Hz, 1.7A O/P: 5VDC,3A; 9VDC,3A; 10VDC,5A; 12VDC,5A; 15VDC,4.33A; 20VDC, 3.25A	
	For TPN-CA10; TPN-LA12; TPN-TA02 ; TPN-HA01; TPN-CA21 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	Unshielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 3 2133MHz (8GB/16GB)	
Main Board	Inventec	6050A3074401
		6050A3137101
	**	6050A3218601

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CPU (WHL)	Intel	i3-8145U 2.1GHz
		i5-8265U 1.6GHz
		i5-8365U 1.6GHz
		i7-8565U 1.8GHz
		i7-8665U 1.9GHz
CPU (CML)	Intel	i3-10110U 2.1GHz
		i5-10210U 1.6GHz
		i7-10510U 1.8GHz
		i7-10710U 1.1GHz
**CPU (TGL)	Intel	i3-1115G4 3.0GHz
		** i5-1135G7 2.4GHz
		** i5-1145G7 2.6GHz
		** i7-1165G7 2.8GHz
		** i7-1185G7 3.0GHz
13.3" LCD Panel	AUO	B133HAN05.E
		B133ZAN02.A
	INX	N133HCG-GF3
	IVO	M133NVFC
	LG	LP133WF9-SPA1
SSD	Samsung	MZNLN128HAHQ-000H1 (128GB)
		MZNLH128HBHQ-000H1 (128GB)
		** MZVLQ128HBHQ-000H1 (128GB)
		MZVLB256HAHQ-000H1 (256GB)
		MZNLN256HAJQ-000H7 (256GB)
		MZVLB256HBHQ-000H1 (256GB)
		MZNLH256HAJD-000H7 (256GB)
		MZVLQ256HAJD-000H1 (256GB)
		** MZVLB256HBHQ-000H7 (256GB)

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SSD	Samsung	MZVLB512HAJQ-000H1 (512GB)
		MZVLB512HAJQ-000H7 (512GB)
		MZVLB512HBJQ-000H1 (512GB)
		MZVLQ512HALU-000H1 (512GB)
		MZVLB512HBJQ-000H7 (512GB)
		MZVLB1T0HALR-000H1 (1TB)
		MZVLB1T0HBLR-000H1 (1TB)
		MZVLB2T0HMLB-000H1 (2TB)
		MZVLB2T0HALB-000H1 (2TB)
	SanDisk	SD9SN8W-128G-1006 (128GB)
		SD9TN8W-256G-1006 (256GB)
	Toshiba	KXG60ZNV256G (256GB)
		KBG30ZMV256G (256GB)
		KXG60ZNV512G (512GB)
		KBG30ZMV512G (512GB)
		KXG5AZNV512G (512GB)
		KXG6AZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG50PNV2T04 (2TB)
	Intel	SSDPEMKF256G8H (256GB)
		SSDPEKNW512G8H (512GB)
		HBRPEKNX0202AH (512GB)
		HBRPEKNX0101AH (512GB)
	Micron	MTFDDAV256TBN-1AR15ABHA (256GB)
		MTFDDAV256TDL-1AW15ABHA (256GB)
		MTFDHBA256TCK-1AS1AABHA (256GB)
		MTFDDAV512TBN-1AR15FCHA (512GB)
	Western Digital	SDAPNUW-128G-1006 (128GB)
		SDAPNTW-256G-1006 (256GB)
		SDAPNUW-256G-1006 (256GB)
		SDATN8Y-256G-1006 (256GB)

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SSD	Western Digital	**	SDBPNTY-256G-1006 (256GB)
		**	SDBPNPZ-256G-1006 (256GB)
		**	SDBQNTY-256G-1006 (256GB)
			SDAPNTW-512G-1006 (512GB)
			SDAPNUW-512G-1006 (512GB)
			SDAQNTW-512G-1006 (512GB)
		**	SDBPNTY-512G-1006 (512GB)
		**	SDBPNPZ-512G-1006 (512GB)
		**	SDBQNTY-512G-1006 (512GB)
			SDAPNTW-1T00-1006 (1TB)
		**	SDBPNTY-1T00-1006 (1TB)
	Hynix		HFM256GDJTNG-8310A (256GB)
			HFS256GD9TNG-L2A0A (256GB)
			HFM256GDJTNI-82A0A (256GB)
			HFM512GDJTNG-8310A (512GB)
			HFS512GD9TNG-L2A0A (512GB)
			HFM512GDJTNI-82A0A (512GB)
			HFS001TD9TNG-L2A0A (1TB)
	Lite-On		CV8-8E128-HP (128GB)
	** SSSTC		CL1-8D128-HP (128GB)
	** Kioxia		KBG40ZNV128G (128GB)
		**	KXG60ZNV256G (256GB)
		**	KBG40ZNV256G (256GB)
		**	KXG6AZNV256G (256GB)
		**	KXG60ZNV512G (512GB)
		**	KBG40ZNV512G (512GB)
		**	KXG6AZNV512G (512GB)
		**	KXG60PNV2T04 (2TB)
	Kingston		RBU-SNS8350DES3/128GP (128GB)

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eMMC	Hynix	H26M62002JPR (32GB)
	Samsung	KLMBG2JETD-B041 (32GB)
	SanDisk	SDINBDA4-32G-V (32GB)
	Kingston	EMMC32G-TB29(32GB)
Battery Pack	Dynapack (hp)	HSTNN-DB9I
		HSTNN-DB9J
		HSTNN-DB9L
	Simplo (hp)	HSTNN-IB8Y
Wireless LAN + Bluetooth Combo	Intel	AX200D2WL
		** AX201D2W
WWAN	Fibocom	L850-GL
		L860-GL
	FOXCONN	T99W175
Bluetooth	Fibocom	B830-GL
CCD	Chicony	CKFIH5121004330LH
		** CKFJH5421004330LH
	Luxvision	8BF118N2
		8BF118N3A
	** TFC	YHSQ
Pen (Optional)	Wacom	ESP-221B-19A-5

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Pre-test Mode

Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	CCD	WWAN / Bluetooth	Adapter	Main Board	Pen	Docking	Adapter (Support Unit)	Type
1	Intel i3-1115G4 3.0GHz	8GB + 8GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZNLN128HAHQ-000H1 (128GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9I	Intel AX200D2WL	Chicony CKFH5121004330LH	Fibocom L850-GL	Chicony(hp) TPN-CA06	Inventec 6050A3218601	Wacom ESP-221B-19A-S	N/A	N/A	TGL
2	Intel i5-1135G7 2.4GHz	8GB + 16GB DDR 3 2133MHz	AUO B133ZAN02.A	Samsung MZVLB256HAHQ-000H1 (256GB)	Samsung KLMBG241TD-B041 (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX201D2W	Luxvision 8BF118N2	Fibocom L860-GL	Chicony(hp) TPN-CA10	Inventec 6050A3218601	N/A	N/A	N/A	TGL
3	Intel i5-1145G7 2.6GHz	16GB + 16GB DDR 3 2133MHz	INX N133HCG-GF3	Samsung MZNLN256HAHQ-000H7 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	Fibocom B830-GL	Acbell(hp) TPN-AA03	Inventec 6050A3218601	N/A	N/A	N/A	TGL
4	Intel i7-1165G7 2.8GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Samsung MZVLB512HAHQ-000H1 (512GB)	EMMC32G-TB29 (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFH5421004330LH	FOXCONN T99W175	Artesyn (hp) TPN-TA02	Inventec 6050A3218601	N/A	N/A	N/A	TGL
5	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	LG LP133WF9-SPA1	Samsung MZVLB512HAHQ-000H7 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	TFC YHSQ	FOXCONN T99W175	Lite-on (hp) TPN-LA12	Inventec 6050A3218601	N/A	N/A	N/A	TGL
6	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Samsung MZVLB110HALR-000H1 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Chicony(hp) TPN-CA21	Inventec 6050A3218601	N/A	N/A	N/A	TGL
7	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	IVO X133NVFF	Samsung MZVLB210HBL-000H1 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Delta (hp) TPN-DA20	Inventec 6050A3218601	N/A	N/A	N/A	TGL
8	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	SanDisk SD9SN8W-128G-1006 (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
9	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	SanDisk SD9TN8W-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
10	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB210HBL-000H1 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
11	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KBG30ZMV256G (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
12	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB210HBL-000H1 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
13	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KBG30ZMV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
14	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KXGSAZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
15	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KXG60ZNV1T02 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
16	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KXG50PNV2T04 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
17	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Intel SSDPEKNW512G8H (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
18	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Intel HBRPEKXN0202AH (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
19	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Micron MTFDDAV256TBN-1AR15ABHA (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
20	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Micron MTFDDAV512TBN-1AR15FCHA (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
21	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
22	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
23	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
24	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
25	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-1T00-1006 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
26	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPNTW-1T00-1006 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
27	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFM256GJTAG-8310A (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
28	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFM512GJTAG-8310A (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
29	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Lite-On CVB-8E128-HP (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
30	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kingston RBU-SNS8359DE3S/128GP (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
31	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZNLH128HBHQ-000H1 (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
32	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB256HBHQ-000H1 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
33	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZNLH256HAJD-000H7 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
34	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLO256HAJD-000H1 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
35	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB512HBHQ-000H1 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
36	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLQ512HALU-000H1 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
37	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB512HBHQ-000H7 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
38	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB110HBLR-000H1 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
39	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB210HALB-000H1 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL

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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Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	CCD	WWAN / Bluetooth	Adapter	Main Board	Pen	Docking	Adapter (Support Unit)	Type
40	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Toshiba KXG6AZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
41	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	SSDPEMKF256G8H (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
42	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Intel HBRPEKNX0101AH (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
43	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Micron MTFDDAV256TDL-1AW15ABHA (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
44	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Micron MTFDHB256TCK-1AS1AABHA (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
45	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDATN8Y-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
46	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFS256GD9TNG-L2A0A (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
47	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFM256GDJTN1-82A0A (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
48	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFS512GD9TNG-L2A0A (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
49	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFM512GDJTN1-82A0A (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
50	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Hynix HFS001TD9TNG-L2A0A (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
51	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLQ128HBHQ-000H1 (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
52	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB256HBHQ-000H7 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
53	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPN1JW-128G-1006 (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
54	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
55	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNPZ-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
56	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBQNTY-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
57	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
58	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNPZ-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
59	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBQNTY-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
60	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-1T00-1006 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
61	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	SST CL1-80128-HP (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
62	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KBG40ZNV128G (128GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
63	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KXG60ZNV256G (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
64	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KBG40ZNV256G (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
65	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KXG6AZNV256G (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
66	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KXG60ZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
67	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KBG40ZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
68	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KXG6AZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
69	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Kioxia KXG6PNV2T04 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) HSTNN-IBBY	Intel AX201D2W	Luxvision 8BF118N3A	FOXCONN T99W175	Honor (hp) TPN-HA01	Inventec 6050A3218601	N/A	N/A	N/A	TGL
70	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLQ128HBHQ-000H1 (128GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
71	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZVLB256HBHQ-000H7 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TPC YHSQ	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
72	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDAPN1JW-128G-1006 (128GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
73	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-256G-1006 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
74	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNPZ-256G-1006 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
75	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBQNTY-256G-1006 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
76	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-512G-1006 (512GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
77	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNPZ-512G-1006 (512GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
78	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBQNTY-512G-1006 (512GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
79	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	Western Digital SDBPNTY-1T00-1006 (1TB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML

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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Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	CCD	WWAN / Bluetooth	Adapter	Main Board	Pen	Docking	Adapter (Support Unit)	Type
80	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	SSSTC CL1-8D128-HP (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
81	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KBG40ZNV128G (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
82	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KXG60ZNV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
83	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KBG40ZNV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
84	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KXG6A2NV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
85	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KXG60ZNV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
86	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KBG40ZNV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
87	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KXG6A2NV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
88	Intel i7-10510U 1.8GHz	16GB + 16GB DDR 3 2133MHz	AUO B133HAN05.E	KXG60PNV2T04 (2TB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Delta (hp) TPN-DA20	Inventec 6050A3137101	N/A	N/A	N/A	CML
89	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	MZVLQ128HBHQ-000H1 (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	Chicony CKFJH5421004330LH	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
90	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	MZVLB256HBHQ-000H7 (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
91	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDAPNUW-128G-1006 (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
92	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBPNY-256G-1006 (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
93	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBPNPZ-256G-1006 (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
94	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBQNTY-256G-1006 (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
95	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBPNY-512G-1006 (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
96	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBPNPZ-512G-1006 (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
97	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBQNTY-512G-1006 (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
98	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	Western Digital SDBPNY-1T100-1006 (1TB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
99	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	SSSTC CL1-8D128-HP (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
100	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KBG40ZNV128G (128GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
101	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KXG60ZNV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
102	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KBG40ZNV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
103	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KXG6A2NV256G (256GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
104	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KXG60ZNV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
105	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KBG40ZNV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
106	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KXG6A2NV512G (512GB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL
107	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFD	KXG60PNV2T04 (2TB)	Ramaxe RETMEDB32GSBB (32GB)	Dynapack (hp) HSTNN-DB9L	Intel AX201D2W	TFC YHSQ	Fibocom L850-GL	Chicony(hp) TPN-CA21	Inventec 6050A3074401	N/A	N/A	N/A	WHL

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 69 (3840 x 2160 Resolution)
Below 1GHz RE	Mode 69 (3840 x 2160 Resolution)
Above 1GHz RE	Mode 69 (3840 x 2160 Resolution)

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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1.5 Description of Support Units

Mode 69:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
SIM Card	VIBO	N/A	N/A
Earphone	Lenovo	GS-4021M	57Y4488
HDD	WD	My passport	WX21E54FA361
USB type C to USB	HP	KSC0003	N/A
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
Mouse	Lenovo	MO28UOL	4403475

Support Equipment Used in Tested Cable

Mode 69:

Cable Type	Core	Length	Shielding/Non-shielding
DC Cable (1)	N/A	1.8m	Non-Shielding
HDMI Cable (2)	N/A	1.8m	Shielding
Earphone Cable (3)	N/A	1.0m	Non-shielding
USB type C to USB Cable (4)	N/A	0.1m	Shielding
USB HDD Cable (5)	N/A	0.6m	Shielding
USB Cable (6)	N/A	1.8m	Shielding

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1.6 Operation Procedure

Mode 69:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through "WINEMC" 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 WINEMC software to send "H" Pattern to display on the screen.
6. Executed AMCAP2 software to turn-on the Camera.
7. Setup the condition for test mode, and begin the test.

1.7 Modification List

No modification was made by Compliance Certification Services Inc. (Wugu Laboratory)

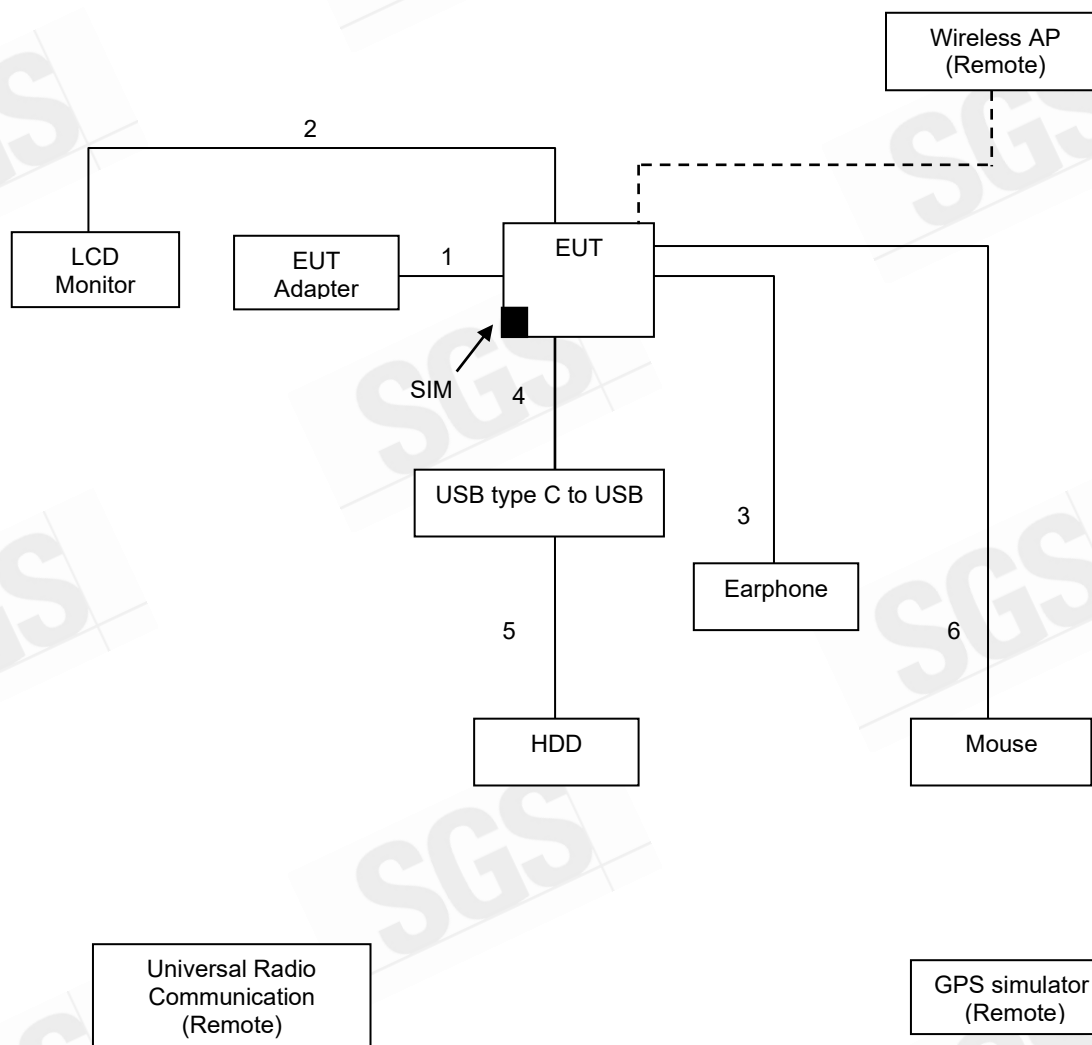
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1.8 Test Set-Up Configuration

Mode 69



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
1.705 - 108
108 - 500
500 - 1000
Above 1000

30
1000
2000
5000

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	07/01/2020	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 24886, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U _{lab} (K=2) of conducted emission is 3.14 dB					
Theory values uncertainty U _{cispr 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

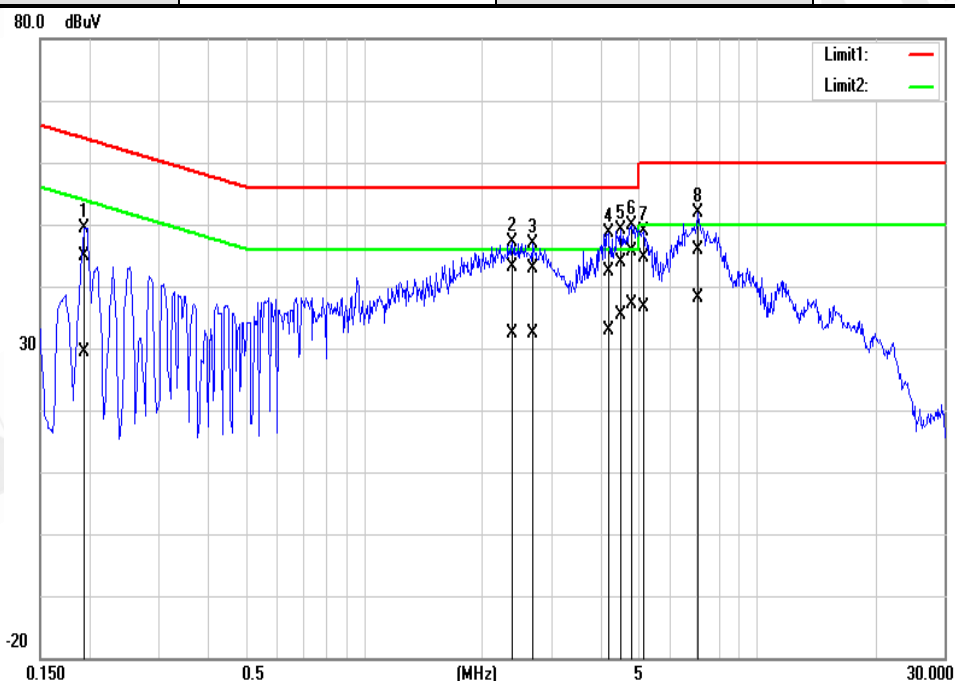
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2.4.3 Measurement Data:

Model no.	HSN-I32C	Line:	L1
Environmental Conditions	23°C, 46% RH	Tested Date	2020/07/24
Test Mode	Mode 69	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	0.1940	35.12	19.79	9.68	44.80	29.47	63.86	53.86	-19.06	-24.39	Pass
2	2.3900	33.41	22.53	9.73	43.14	32.26	56.00	46.00	-12.86	-13.74	Pass
3	2.6820	33.03	22.70	9.74	42.77	32.44	56.00	46.00	-13.23	-13.56	Pass
4	4.1900	32.60	23.21	9.77	42.37	32.98	56.00	46.00	-13.63	-13.02	Pass
5	4.5100	34.23	25.49	9.77	44.00	35.26	56.00	46.00	-12.00	-10.74	Pass
6*	4.7980	35.78	27.31	9.79	45.57	37.10	56.00	46.00	-10.43	-8.90	Pass
7	5.1420	34.73	26.89	9.79	44.52	36.68	60.00	50.00	-15.48	-13.32	Pass
8	7.0980	36.09	28.37	9.82	45.91	38.19	60.00	50.00	-14.09	-11.81	Pass

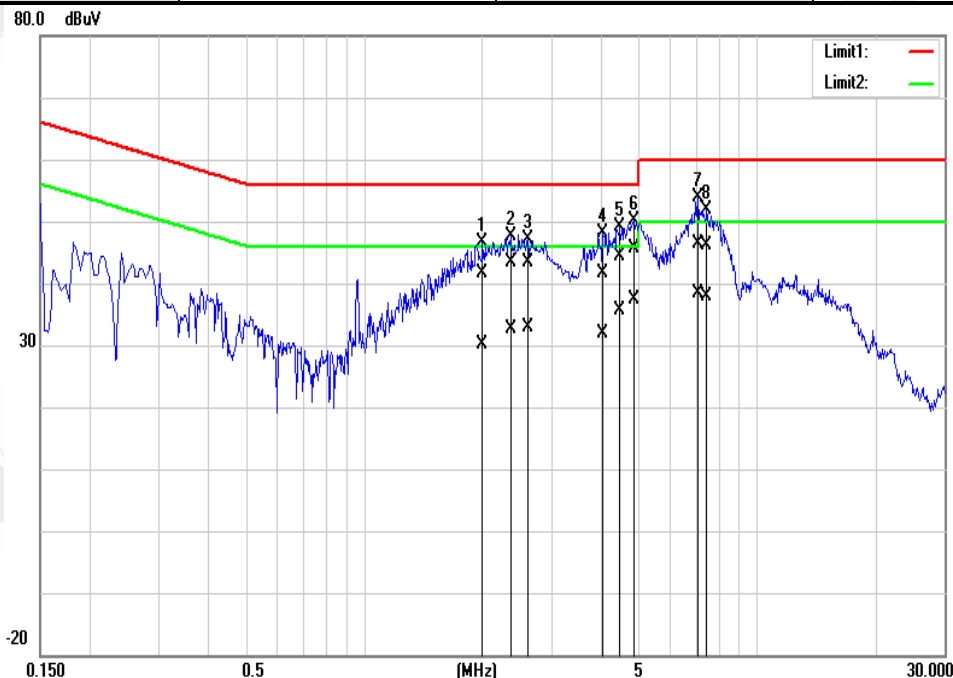
REMARKS: L1 = Line One (Live Line)

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Model no.	HSN-I32C	Line:	L2
Environmental Conditions	23°C, 46% RH	Tested Date	2020/07/24
Test Mode	Mode 69	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	2.0100	31.88	20.44	9.79	41.67	30.23	56.00	46.00	-14.33	-15.77	Pass
2	2.3660	33.70	22.89	9.80	43.50	32.69	56.00	46.00	-12.50	-13.31	Pass
3	2.6140	33.58	23.19	9.80	43.38	32.99	56.00	46.00	-12.62	-13.01	Pass
4	4.0700	31.74	22.06	9.83	41.57	31.89	56.00	46.00	-14.43	-14.11	Pass
5	4.4780	34.54	25.89	9.83	44.37	35.72	56.00	46.00	-11.63	-10.28	Pass
6*	4.8580	35.90	27.62	9.85	45.75	37.47	56.00	46.00	-10.25	-8.53	Pass
7	7.0740	36.47	28.48	9.89	46.36	38.37	60.00	50.00	-13.64	-11.63	Pass
8	7.4540	36.14	27.98	9.89	46.03	37.87	60.00	50.00	-13.97	-12.13	Pass

REMARKS: 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	04/29/2020	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 24886, 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
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 24886, 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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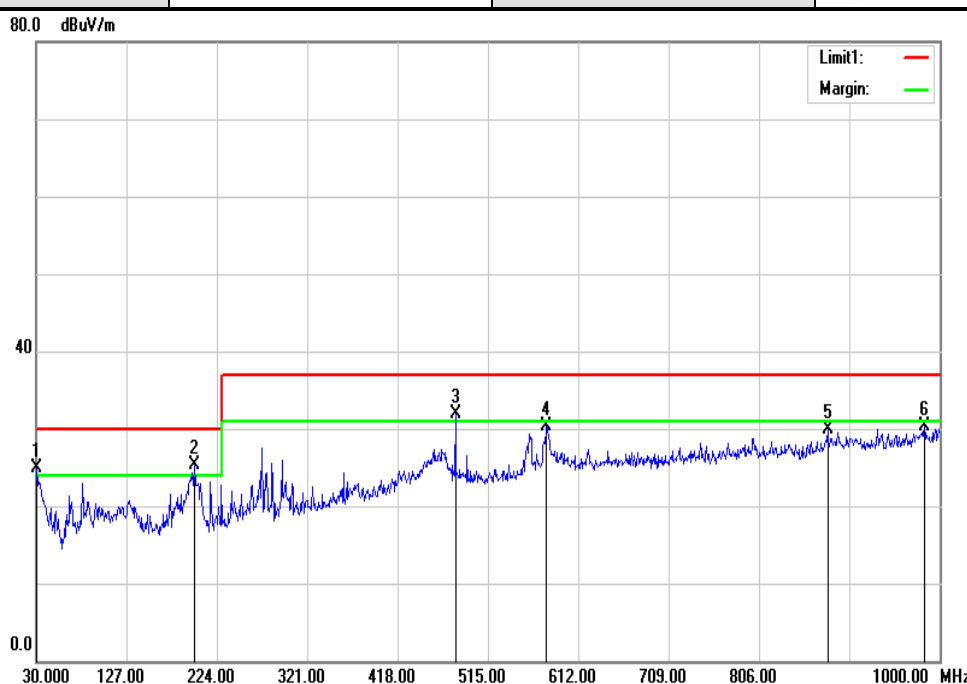
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2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-I32C	Test Mode	Mode 69
Environmental Conditions	22°C, 47% RH	Tested Date	2020/07/25
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	27.81	-2.83	24.98	30.00	-5.02	163	0	QP
2	199.7500	34.40	-9.10	25.30	30.00	-4.70	100	195	QP
3	480.0800	32.30	-0.32	31.98	37.00	-5.02	100	82	QP
4	578.0500	29.09	1.13	30.22	37.00	-6.78	199	0	QP
5	879.7200	24.92	4.95	29.87	37.00	-7.13	299	359	QP
6	983.5100	23.90	6.32	30.22	37.00	-6.78	299	359	QP

REMARKS:

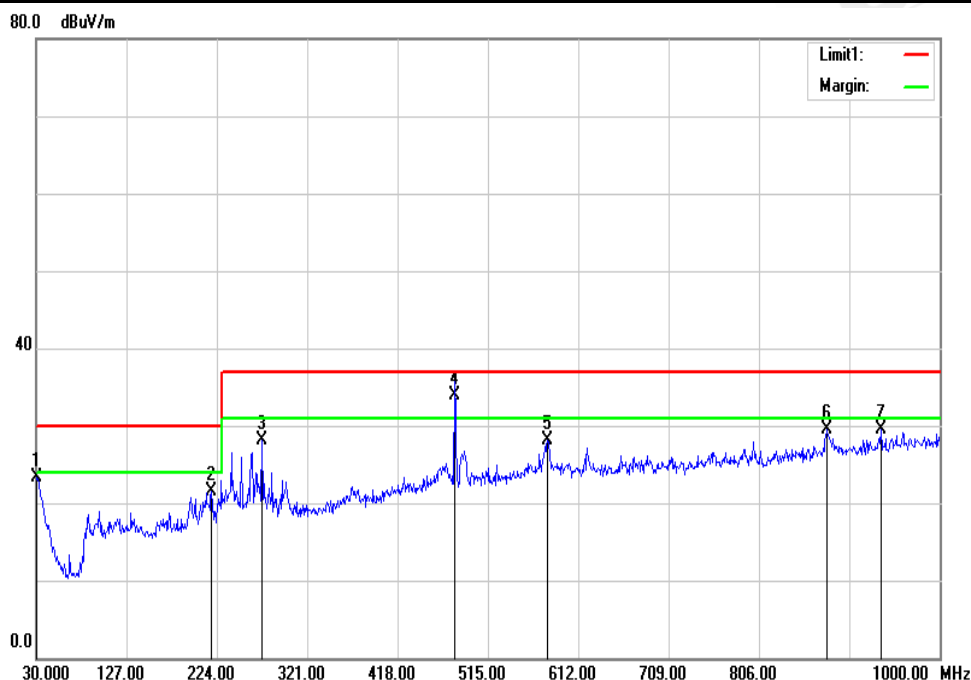
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Model no.	HSN-I32C	Test Mode	Mode 69
Environmental Conditions	22°C, 47% RH	Tested Date	2020/07/25
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	26.38	-3.00	23.38	30.00	-6.62	314	0	QP
2	218.1800	31.66	-10.24	21.42	30.00	-8.58	300	60	QP
3	272.5000	33.67	-5.54	28.13	37.00	-8.87	300	243	QP
4	479.1100	36.13	-2.23	33.90	37.00	-3.10	200	11	QP
5	579.0200	28.86	-0.78	28.08	37.00	-8.92	100	22	QP
6	878.7500	26.59	2.93	29.52	37.00	-7.48	299	360	QP
7	936.9500	25.78	3.80	29.58	37.00	-7.42	400	359	QP

REMARKS:

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

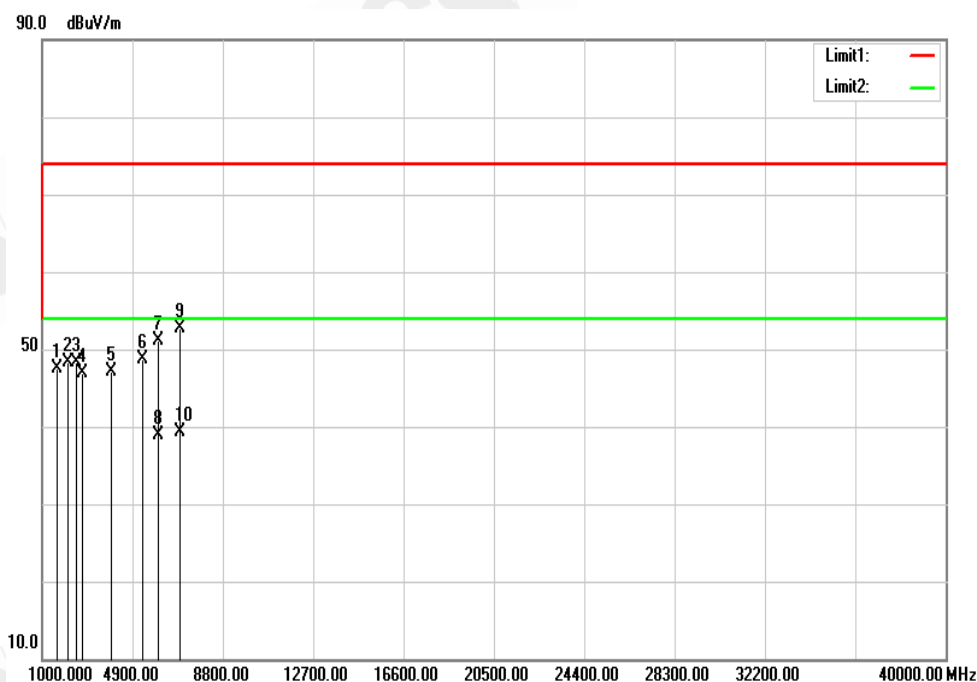
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Above 1GHz

Model no.	HSN-I32C	Test Mode	Mode 69
Environmental Conditions	22°C, 47% RH	Tested Date	2020/07/25
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	3.0GHz	Upper frequency	10.5GHz
Detector Function	Peak & Avarage	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	1603.500	66.04	-18.63	47.41	74.00	-26.59	200	236	peak
2	2088.000	63.13	-14.76	48.37	74.00	-25.63	200	291	peak
3	2479.000	62.40	-14.15	48.25	74.00	-25.75	300	248	peak
4	2708.500	60.48	-13.50	46.98	74.00	-27.02	100	234	peak
5	4000.500	58.44	-11.24	47.20	74.00	-26.80	200	276	peak
6	5301.000	56.33	-7.68	48.65	74.00	-25.35	115	360	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	6023.500	56.06	-5.05	51.01	74.00	-22.99	200	63	peak
8	6023.500	44.01	-5.05	38.96	54.00	-15.04	200	63	AVG
9	6899.000	56.39	-3.74	52.65	74.00	-21.35	200	331	peak
10	6899.000	43.10	-3.74	39.36	54.00	-14.64	200	331	AVG

REMARKS:

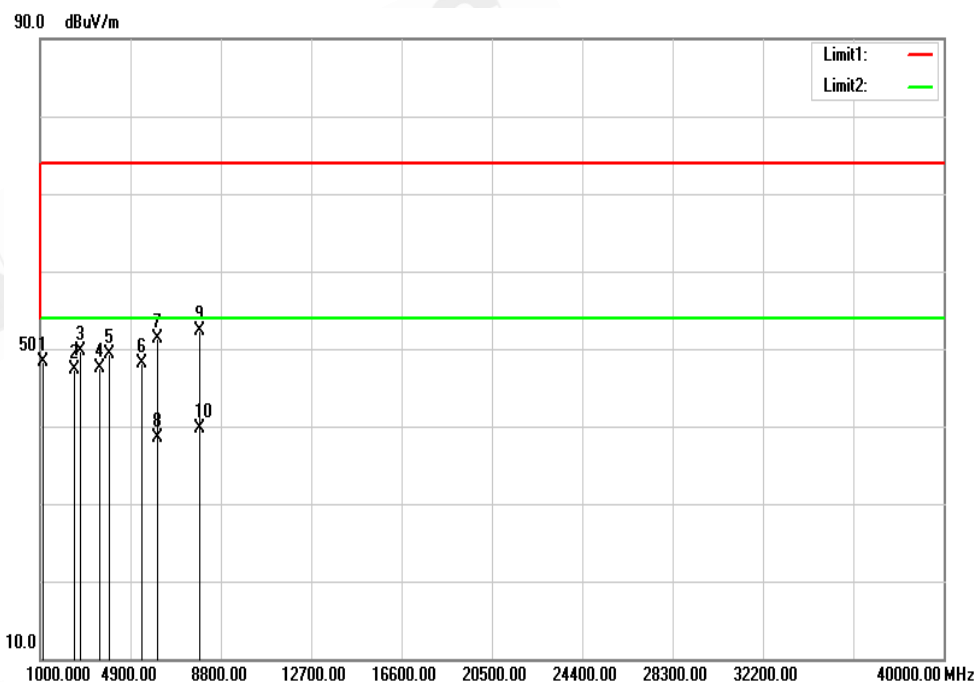
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I32C	Test Mode	Mode 69
Environmental Conditions	22°C, 47% RH	Tested Date	2020/07/25
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	3.0GHz	Upper frequency	10.5GHz
Detector Function	Peak & Avarage	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	67.70	-19.48	48.22	74.00	-25.78	200	257	peak
2	2445.000	61.57	-14.22	47.35	74.00	-26.65	100	189	peak
3	2751.000	63.03	-13.33	49.70	74.00	-24.30	100	182	peak
4	3558.500	58.95	-11.52	47.43	74.00	-26.57	200	154	peak
5	4000.500	60.55	-11.24	49.31	74.00	-24.69	100	158	peak
6	5394.500	55.52	-7.51	48.01	74.00	-25.99	219	360	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	6066.000	56.25	-4.96	51.29	74.00	-22.71	100	0	peak
8	6066.000	43.39	-4.96	38.43	54.00	-15.57	100	0	AVG
9	7902.000	55.74	-3.34	52.40	74.00	-21.60	300	359	peak
10	7902.000	42.96	-3.34	39.62	54.00	-14.38	300	359	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-I32C

Mode 69 +



Mode 69 -



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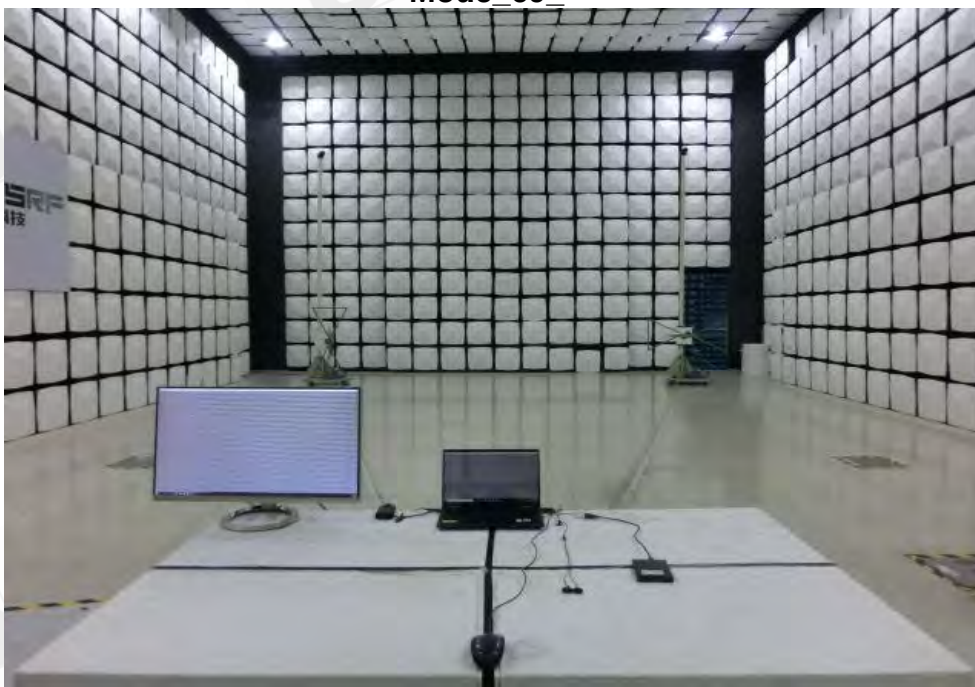
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RE Testing Set-up Below 1GHz

Model No.: HSN-I32C

Mode_69_ +



Mode_69_-



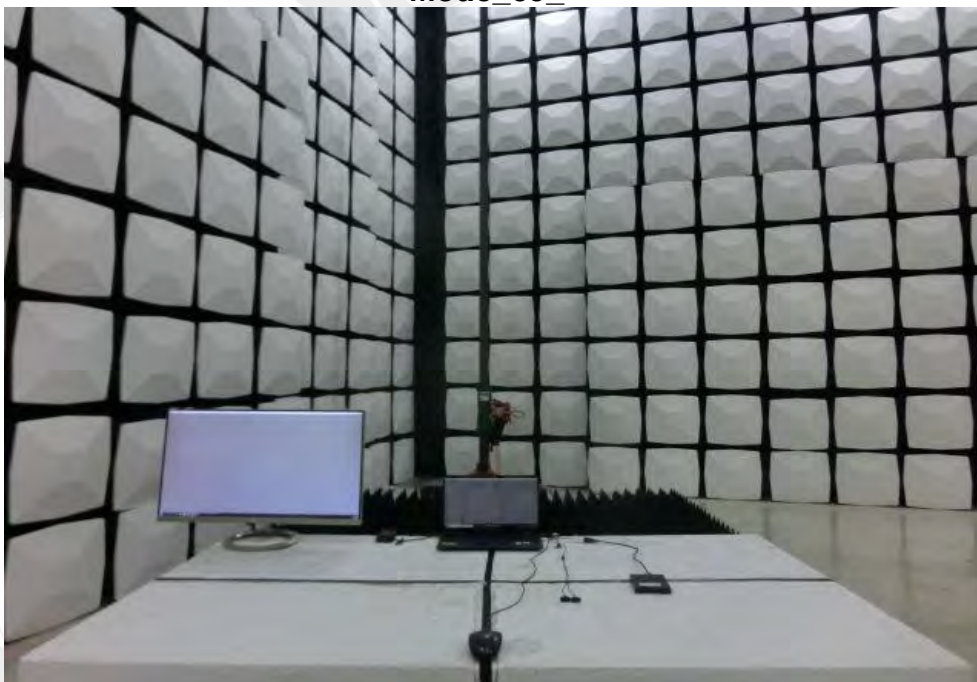
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Model No.: HSN-I32C

Mode_69_+



Mode_69_-



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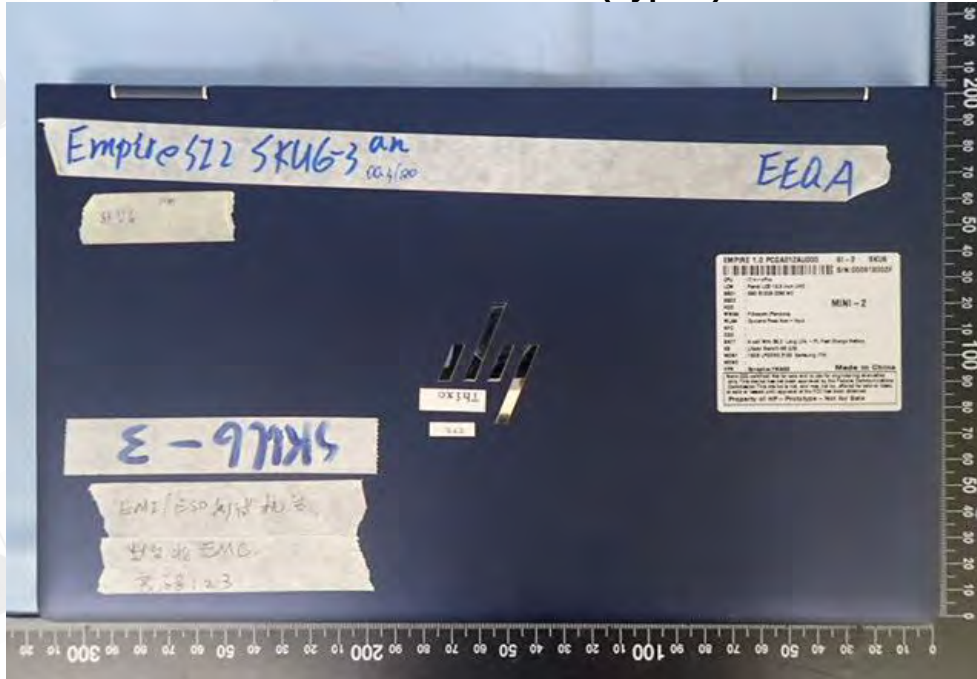
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4. Photographs of Product

Exterior

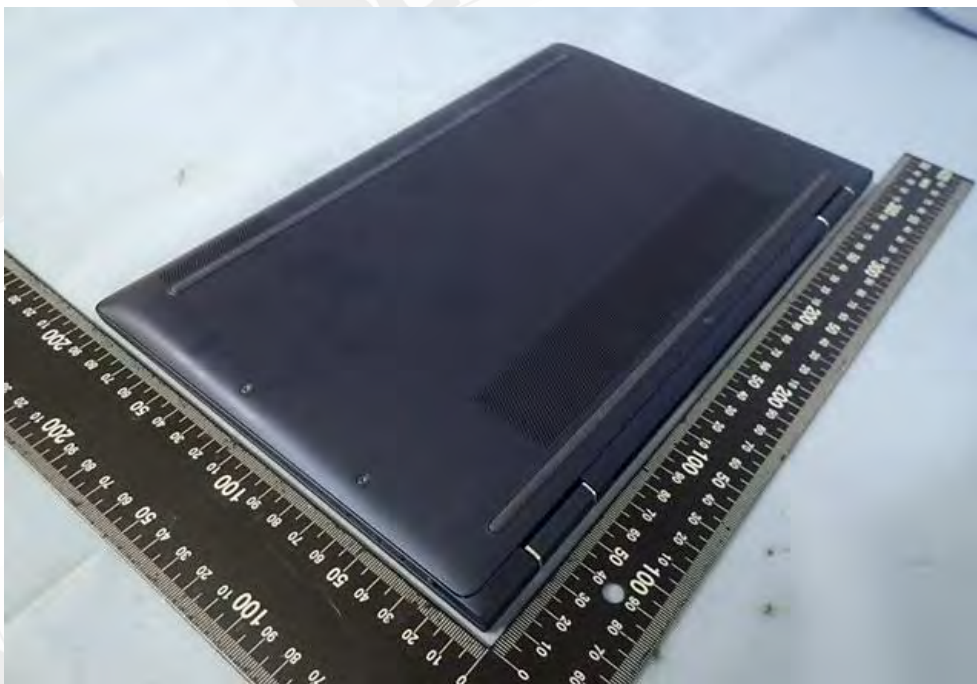
Model No.: HSN-I32C (Type 1)



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Model No.: HSN-I32C (Type 2)



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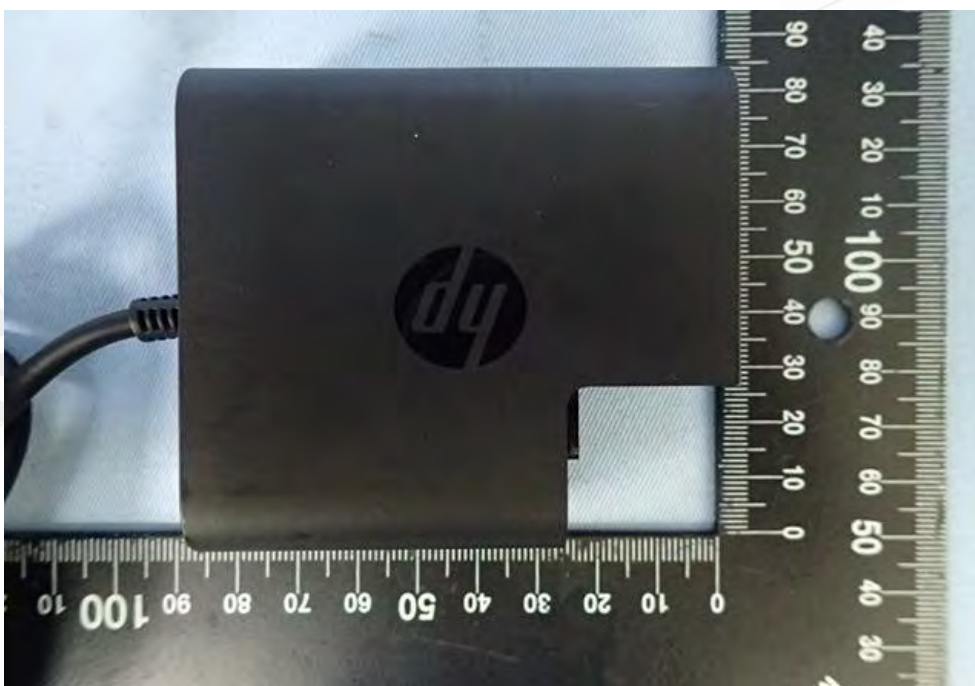


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Adapter Model No.: TPN-CA06



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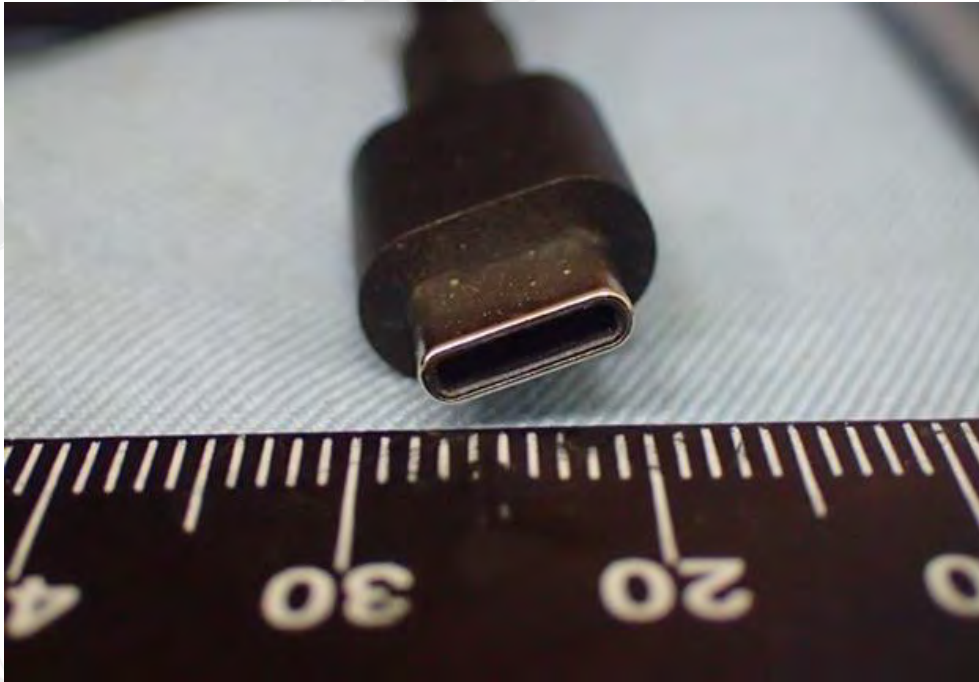
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Adapter Model No.: TPN-CA10



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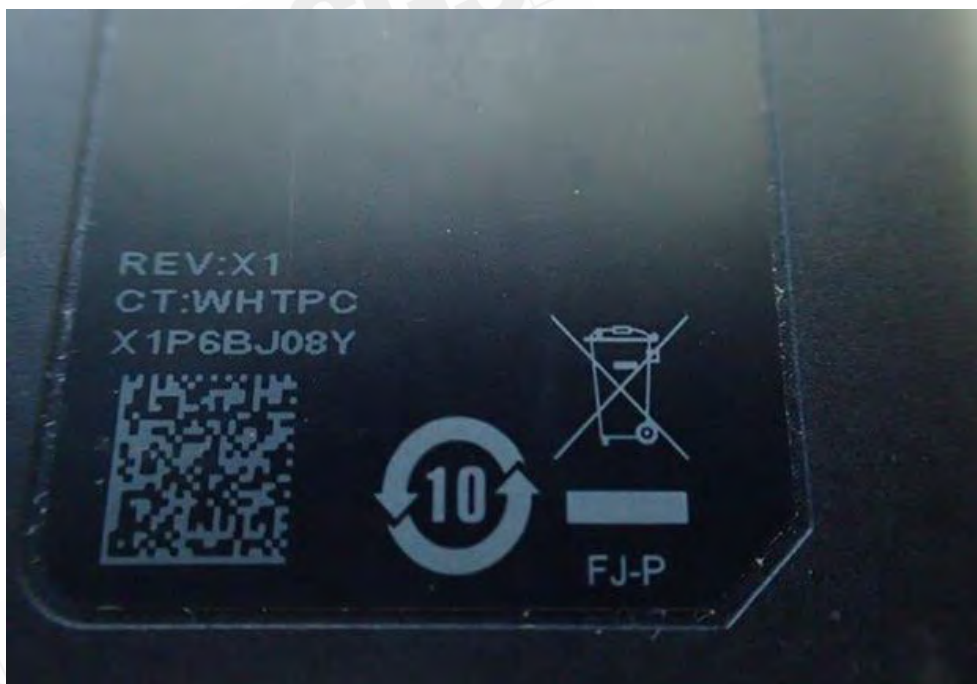
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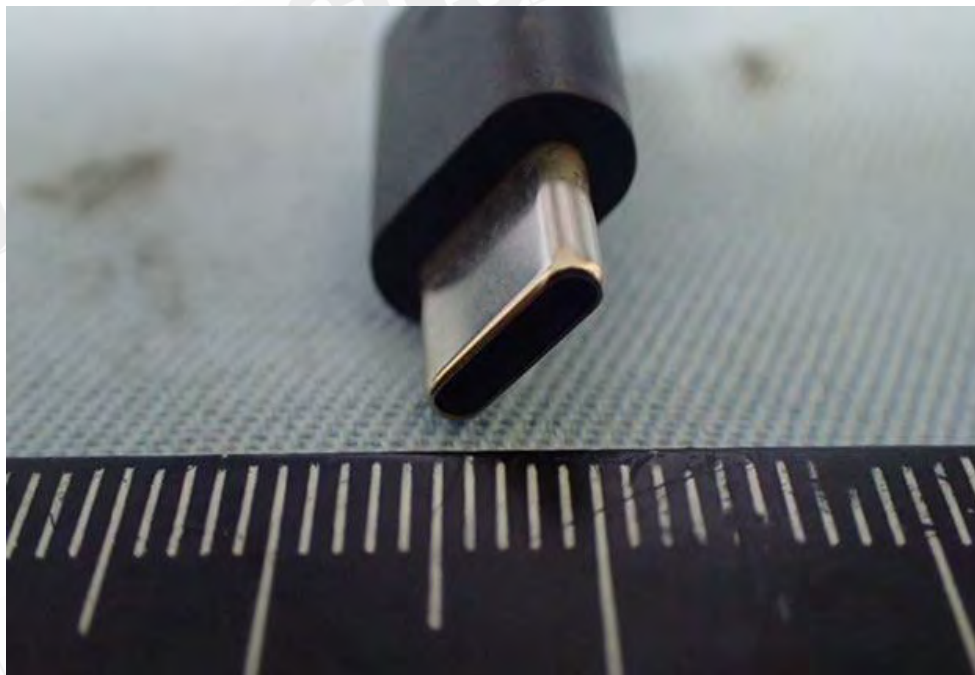
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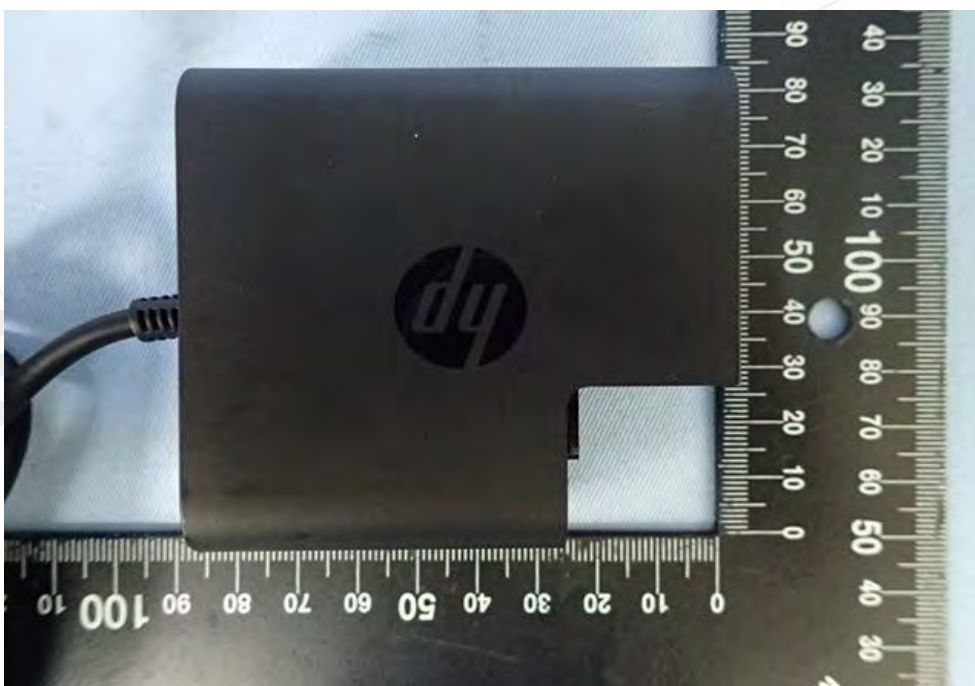


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Adapter Model No.: TPN-AA03



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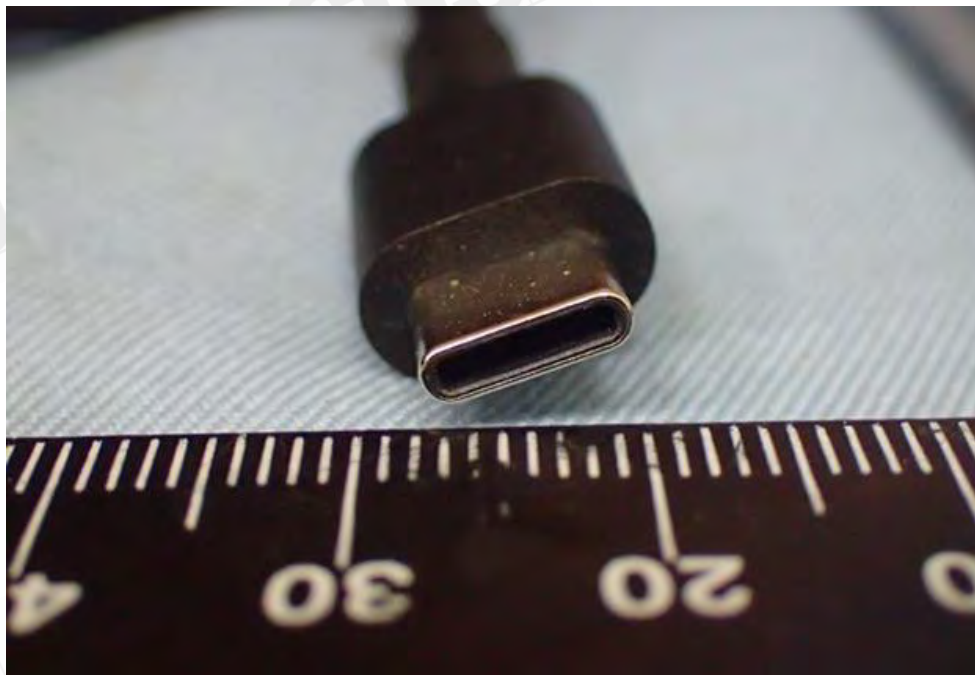
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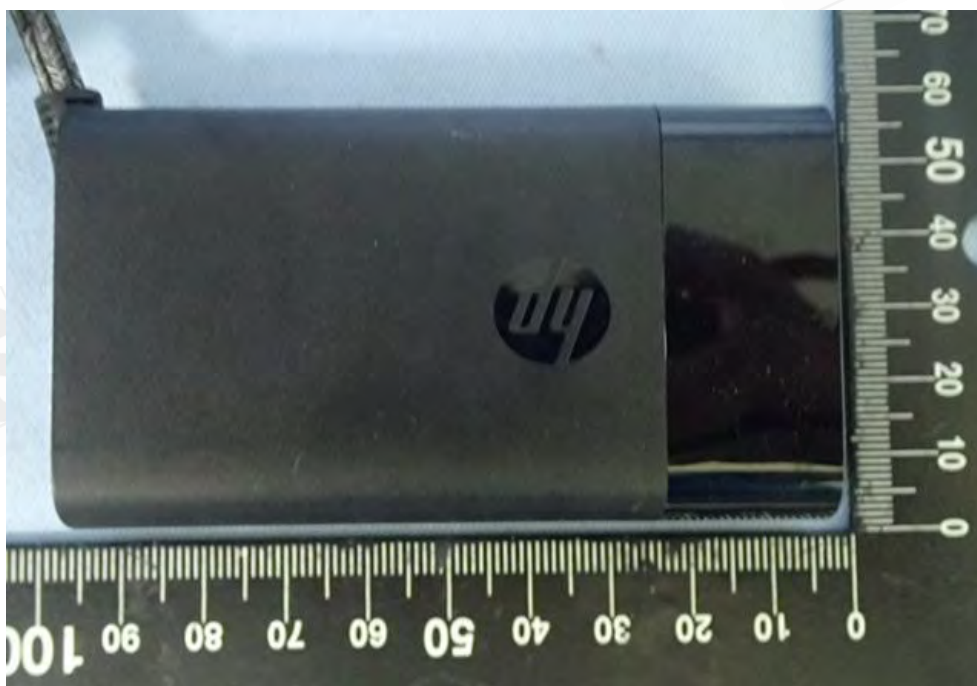


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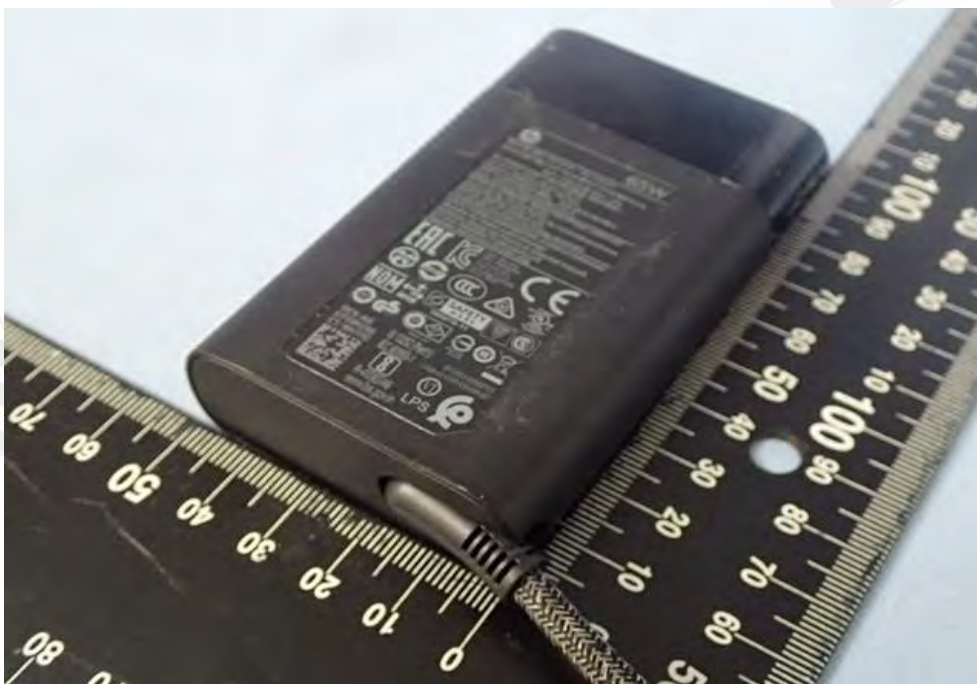
Adapter Model No.: TPN-TA02



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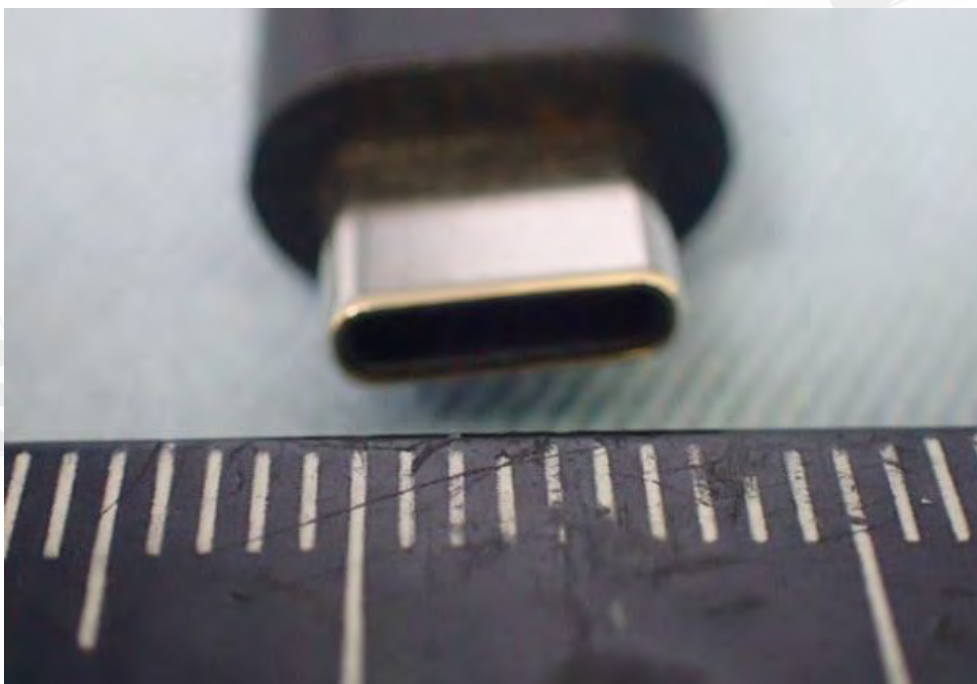
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Adapter Model No.: TPN-LA12



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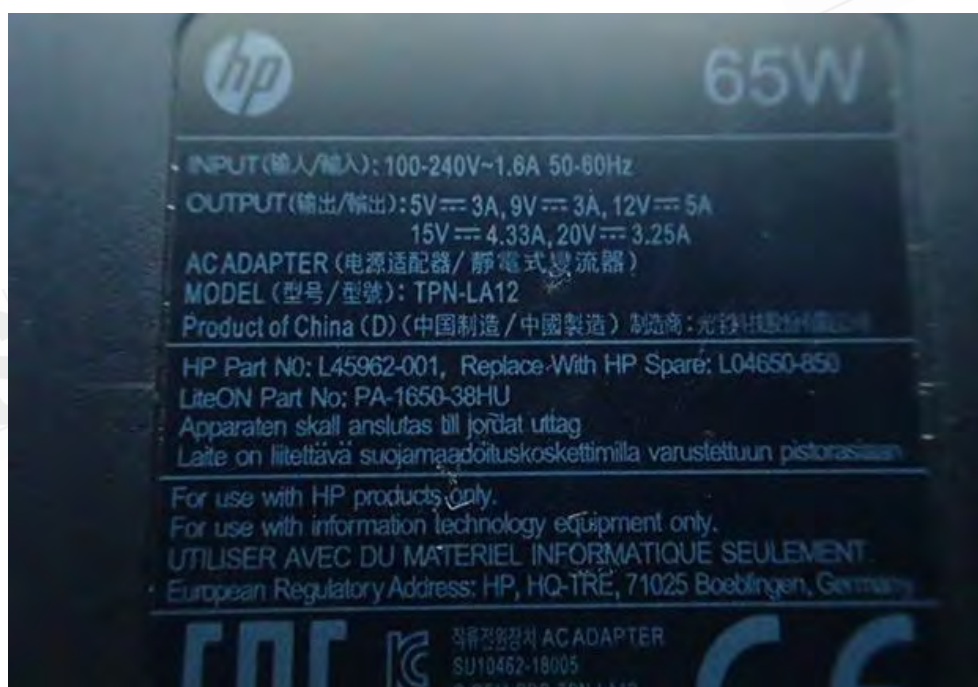
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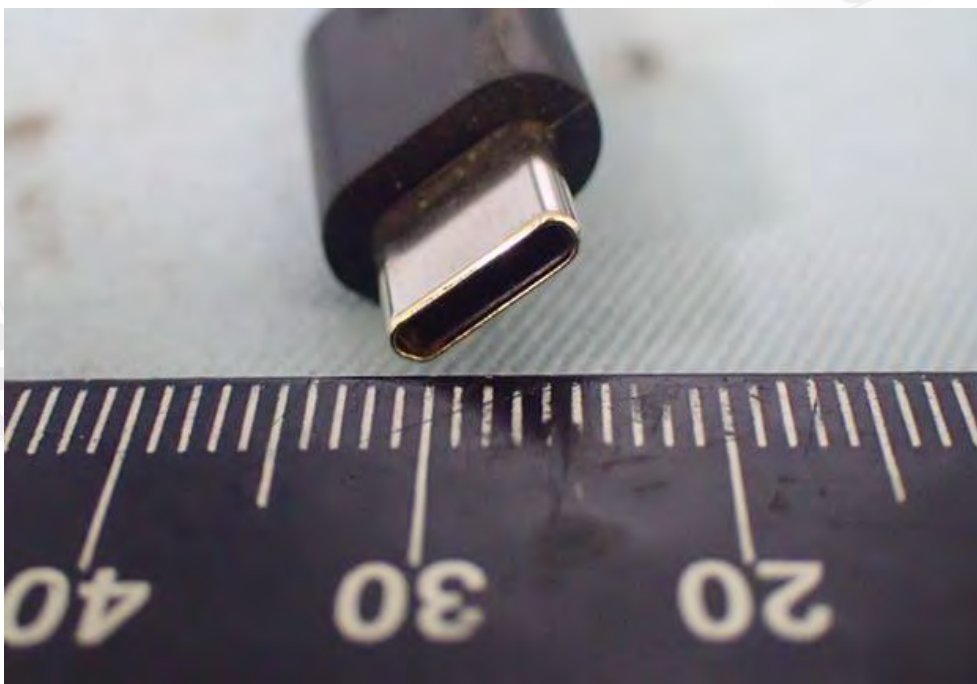
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Adapter Model No.: TPN-CA21



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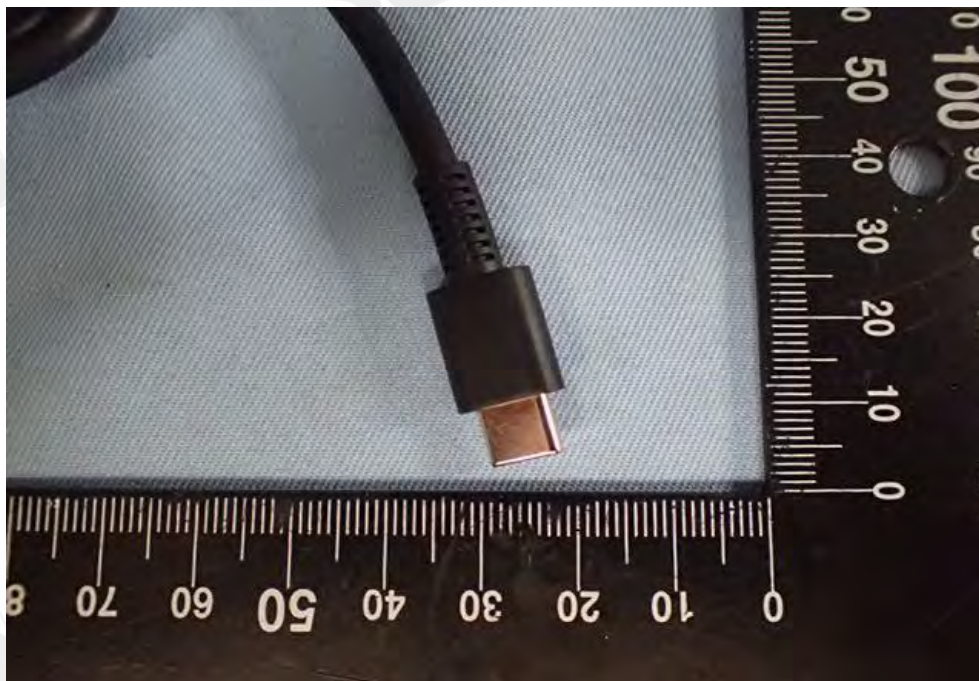
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Adapter Model No.: TPN-DA20



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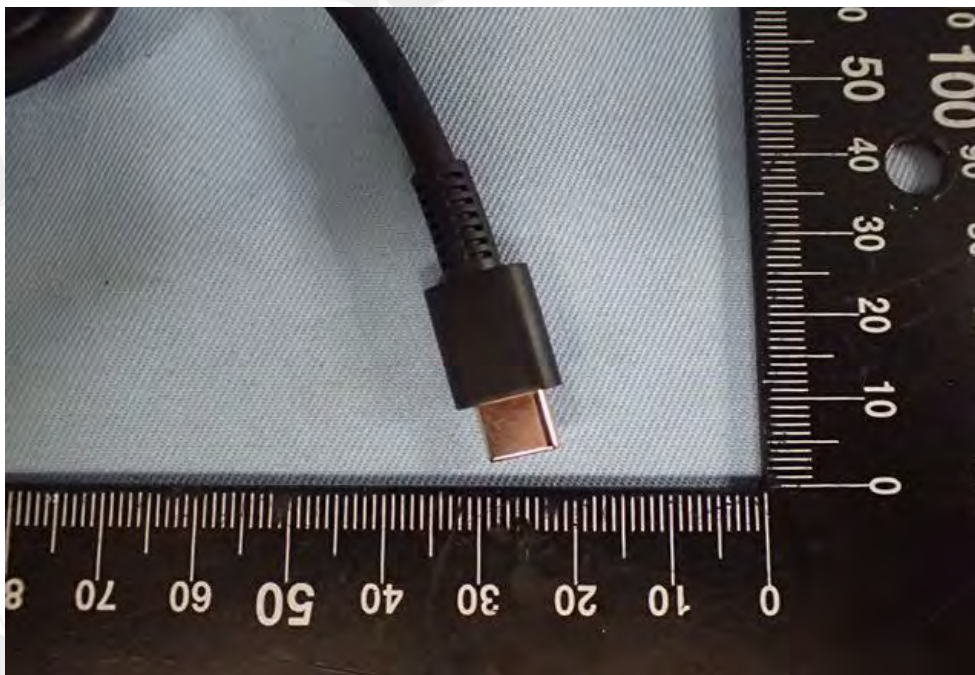
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Adapter Model No.: TPN-HA01



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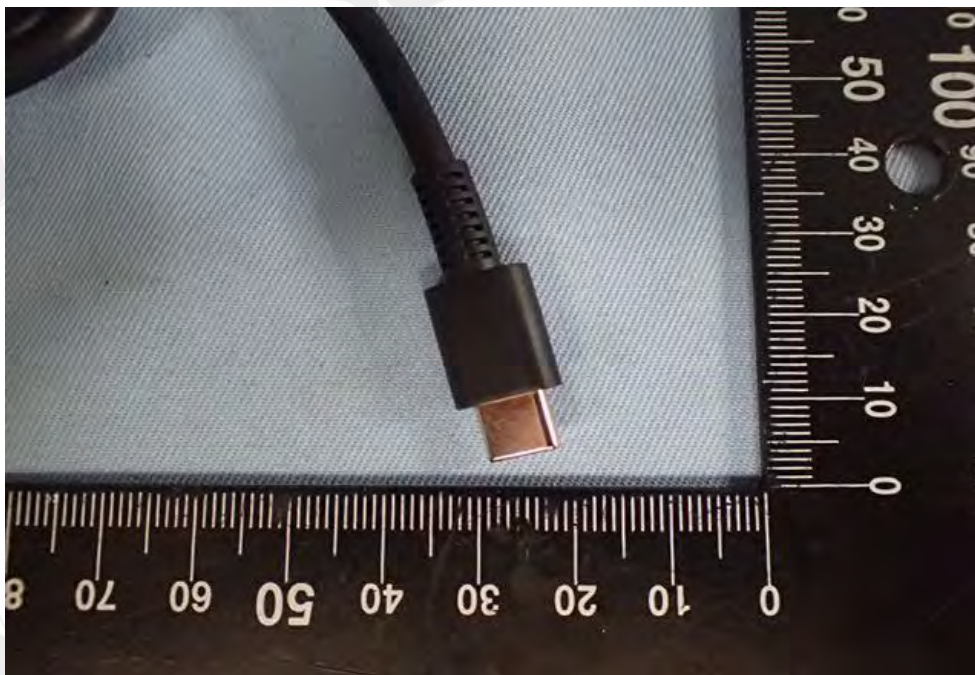
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