

FCC SDoC REPORT

ICES-003 TEST REPORT

Test Report No. : T210723L02-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-I45C-3
Added Model(s) : N/A
Standards : 47 CFR FCC Part 15 Subpart B (Class B)
ICES-003 Issue 7: October 2020 (Class B)
Date of Sample Receipt : Aug. 12, 2021
Date of Test : Aug. 12 ~ 29, 2021
Date of Issue : Nov. 12, 2021

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.

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Approved By:**Date:**

Nov. 12, 2021

**Hex Chiang (Supervisor)**

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Revision History

Revision	Report Number	Description	Issue Date
00	T210723L02-F	Original	Nov. 12, 2021

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1. General Information

1.1 Applicant & Manufacturer Information

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.

1.2 General Description of EUT

Product Name : Notebook Computer
Brand Name : HP
Model No. : HSN-I45C-3
Added Model(s) : N/A
Variant Description : N/A

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1.3 Details of EUT

Power Supply	AC 100 ~ 240V	
Highest operate description	7.1GHz	
Power Adapter	Chicony (hp)	TPN-CA10
		TPN-CA20
		TPN-CA21
	Acbel (hp)	TPN-AA07
	Lite-on (hp)	TPN-LA12
		TPN-LA19
		TPN-LA23
	Delta (hp)	TPN-DA15
		TPN-DA20
	Honor (hp)	TPN-HA01
Power Adapter Rating	For TPN-CA10; TPN-CA21; TPN-LA12; TPN-LA23; TPN-HA01 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
	For TPN-CA20; TPN-AA07; TPN-LA19; TPN-DA15 I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 3A / 15Vdc, 3A	
	For TPN-DA20 I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type (Type C)	Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 5 4800MHz (16GB)	
Main Board	Inventec	6050A3316601
CPU	Intel	i5-1235U 1.30GHz
		i5-1245U 1.60GHz
		i7-1255U 1.70GHz
		i7-1265U 1.80GHz
13.3" LCD Panel	AUO	B133UAN01.4
		B133UAK01.0
		B133UAN02.0

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13.3" LCD Panel	BOE	NV133WUM-N41
		NV133WUM-T02
		NV133WUM-N62
	INX	N133JCA-EE1
		N133JCN-EE1
		N133JCG-GT1
	IVO	R133NW4K
		X133NV4M
SSD	LGD	LP133WU1
	CSOT	MND307ZA1-1
	Samsung	MZVL2256HCHQ-00BH7 (256GB)
		MZVLQ256HBJD-00BH1 (256GB)
		MZVL2256HCHQ-00BH1 (256GB)
		MZVL2512HCJQ-00BH7 (512GB)
		MZVLQ512HBLU-00BH1 (512GB)
		MZVL2512HCJQ-00BH1 (512GB)
		MZVL21T0HCLR-00BH1 (1TB)
		MZVL22T0HBLB-00BH1 (2TB)
	Kioxia	KBG40ZNV256G (256GB)
		KBG40ZNV512G (512GB)
	Intel	SSDPEKNU512GZH (512GB)
	Western Digital	SDCQNRV-256G-1006 (256GB)
		SDBPNPZ-256G-1006 (256GB)
		SDCPNRY-256G-1006 (256GB)
		SDCQNRV-512G-1006 (512GB)
		SDBPNPZ-512G-1006 (512GB)
		SDCPNRY-512G-1006 (512GB)
		SDCPNRY-1T00-1006 (1TB)
		SDCPNRZ-2T00-1006 (2TB)
	Hynix	HFM256GD3JX013N (256GB)
		HFM512GD3JX013N (512GB)
	Micron	MTFDHBA512QFD-1AX1AABHA (512GB)
		MTFDKBA512TFH-1BC1AABHA (512GB)
		MTFDKBA1T0TFH-1BC1AABHA (1TB)
		MTFDKBA2T0TFH-1BC1AABHA (2TB)

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SSD	SSSTC	CA6-8D256-HP (256GB)
		CL4-8D256-HP (256GB)
		CA6-8D512-HP (512GB)
		CL4-8D512-HP (512GB)
eMMC	Hynix	H26M62002JPR (32GB)
	Kingston	EMMC32G-TX29-HP (32GB)
	Ramaxel	RETMEDB32GSBB (32GB)
	SanDisk	SDINBDA4-32G-V (32GB)
Battery Pack	Dynapack (hp)	TPN-DB0P
		TPN-DB0J
		TPN-DB0K
	Simplo (hp)	TPN-IB0B
		HSTNN-IB9X
		HSTNN-IB9Y
	LG Energy Solution (hp)	HSTNN-LB8W
		HSTNN-LB8V
	CosMX (hp)	HSTNN-OB2J
Wireless LAN+Bluetooth Combo	Intel	AX211NGW
NFC	WNC	XRAV-1
WWAN	Fibocom	L860-GL-16
		FM350-GL
CCD	Chicony	CKFK52421004330LH
		CKFKE3221004330LH
	Luxvisions	0BF505N3
		0BF506N3
	Foxlink	FO50FF-836H
	TFC	YHSJ
		YHLF
		YHSK

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Pre-test Mode

Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	NFC	WWAN	CCD	Adapter	Main Board	Docking
1	Intel i5-1235U 1.30GHz	16GB DDR5 4800MHz	AJO B133UAN01.4	Samsung MZVL2256HCHQ-00BH7 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) TPN-DB0P	Intel AX211NGW	WNC XRAV-1	Fibocom L860-GL-16	Chicony CKFK52421004330LH	Chicony (hp) TPN-CA10	Inventec 6050A3316601	N/A
2	Intel i5-1245U 1.60GHz	16GB DDR5 4800MHz	AJO B133UAK01.0	Samsung MZVL2256HCHQ-00BH1 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Dynapack (hp) TPN-DB0J	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA20	Inventec 6050A3316601	N/A
3	Intel i7-1255U 1.70GHz	16GB DDR5 4800MHz	AJO B133UAN02.0	Samsung MZVL2256HCHQ-00BH1 (256GB)	Ramaxeel RETMEDB32GSSBB (32GB)	Dynapack (hp) TPN-DB0K	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3316601	N/A
4	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Samsung MZVL2512HCJQ-00BH7 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Acbel (hp) TPN-AA07	Inventec 6050A3316601	N/A
5	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-T02	Samsung MZVL0512HBLU-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) HSTNN-IB9X	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Foxlink F050FF-836H	Lite-on (hp) TPN-LA12	Inventec 6050A3316601	N/A
6	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N62	Samsung MZVL2512HCJQ-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSJ	Lite-on (hp) TPN-LA19	Inventec 6050A3316601	N/A
7	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	INX N133JCA-EE1	Samsung MZVL2110HCLR-00BH1 (1TB)	Kingston EMMC32G-TX29-HP (32GB)	LG Energy Solution (hp) HSTNN-LB8W	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHLF	Lite-on (hp) TPN-LA23	Inventec 6050A3316601	N/A
8	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	INX N133JCN-EE1	Samsung MZVL2210HBLU-00BH1 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	LG Energy Solution (hp) HSTNN-LB8V	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSK	Delta (hp) TPN-DA15	Inventec 6050A3316601	N/A
9	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	INX N133JCG-GT1	Kioxia KBG40ZNV256G (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CoSMX (hp) HSTNN-OB2J	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
10	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	IVO R133NW4K	Kioxia KBG40ZNV512G (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Honor (hp) TPN-HA01	Inventec 6050A3316601	N/A
11	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	IVO X133NV4M	Western Digital SSDPEKN1U512GZH (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
12	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	LGD LP133WU1	Western Digital SDOCPNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
13	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	LGD MND307ZA1-1	Western Digital SDBPNRZ-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
14	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
15	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
16	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDBPNRZ-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
17	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
18	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-1T00-1006 (1TB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
19	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
20	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Hynix HFM256GD3JX013N (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
21	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Hynix HFM125GD3JX013N (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
22	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Micron MTFDBA512QFD-1AX1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
23	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Micron MTFDKBA512TFH-1BC1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
24	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Micron MTFDBA1T0TFH-1BC1AABHA (1TB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
25	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Micron MTFDBA2T0TFH-1BC1AABHA (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
26	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	SSSTC CA6-8D256-HP (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
27	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	SSSTC CL4-8D256-HP (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
28	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	SSSTC CA6-8D512-HP (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
29	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	SSSTC CL4-8D512-HP (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	N/A
30	Intel i7-1255U 1.80GHz	16GB DDR5 4800MHz	BOE NV133WUM-N41	Western Digital SDOCPNRY-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simple (hp) TPN-IB0B	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3316601	HP HSN-IX02

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 19, 30 (1920 x 1200 Resolution)
Below 1GHz RE	Mode 19, 30 (1920 x 1200 Resolution)
Above 1GHz RE	Mode 19, 30 (1920 x 1200 Resolution)

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1.5 Description of Support Units

Mode 19:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone	APPLE	N/A	N/A
HDD	WD	My Passport	WXE1E84CVPPA
Mouse	Logitech	M-U0026	N/A
Notebook PC (Remote)	Lenovo	TP00103G	PF-24WF25
Wireless AP (Remote)	ASUS	GT-AXE11000	M3IAJF201439
UXM 5G Wireless Test Platform (Remote)	KEYSIGHT	E7515B	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A
SIM Card	VIBO	N/A	N/A
SC Card	N/A	N/A	N/A

Mode 30:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone	APPLE	N/A	N/A
Earphone	APPLE	N/A	N/A
HDD	WD	My Passport	WX31A94JJZZX
HDD	WD	My Passport	WXE1E84CVPPA
HDD	WD	My Passport	WXA1AA4DRYDJ
HDD	WD	My Passport	WXB1AA4EEJ9P
HDD	WD	My Passport	WXD1E849K9YF
HDD	WD	My Passport	WX21E54RD766
Mouse	Logitech	M-U0026	N/A
Notebook PC (Remote)	Lenovo	TP00103G	PF-24WF25
Wireless AP (Remote)	ASUS	GT-AXE11000	M3IAJF201439
UXM 5G Wireless Test Platform (Remote)	KEYSIGHT	E7515B	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A
SIM Card	VIBO	N/A	N/A
SC Card	N/A	N/A	N/A
Docking	HP	HSN-IX02	N/A

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Support Equipment Used in Tested Cable

Mode 19:

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

Mode 30:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
Type C Cable (2)	N/A	1.0m	Shielding
Type C Cable (3)	N/A	1.8m	Shielding
Earphone Cable (4)*2	N/A	1.8m	Non-Shielding
USB HDD Cable (5)*6	N/A	0.6m	Shielding
Type C Cable (6)	N/A	1.8m	Shielding
USB Mouse Cable (7)	N/A	1.8m	Shielding
Display Cable (8)*2	N/A	1.8m	Shielding
HDMI Cable (9)	N/A	1.8m	Shielding
LAN Cable (10)	N/A	10.0m	Non-Shielding

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1.6 Operation Procedure

Mode 19, 30:

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

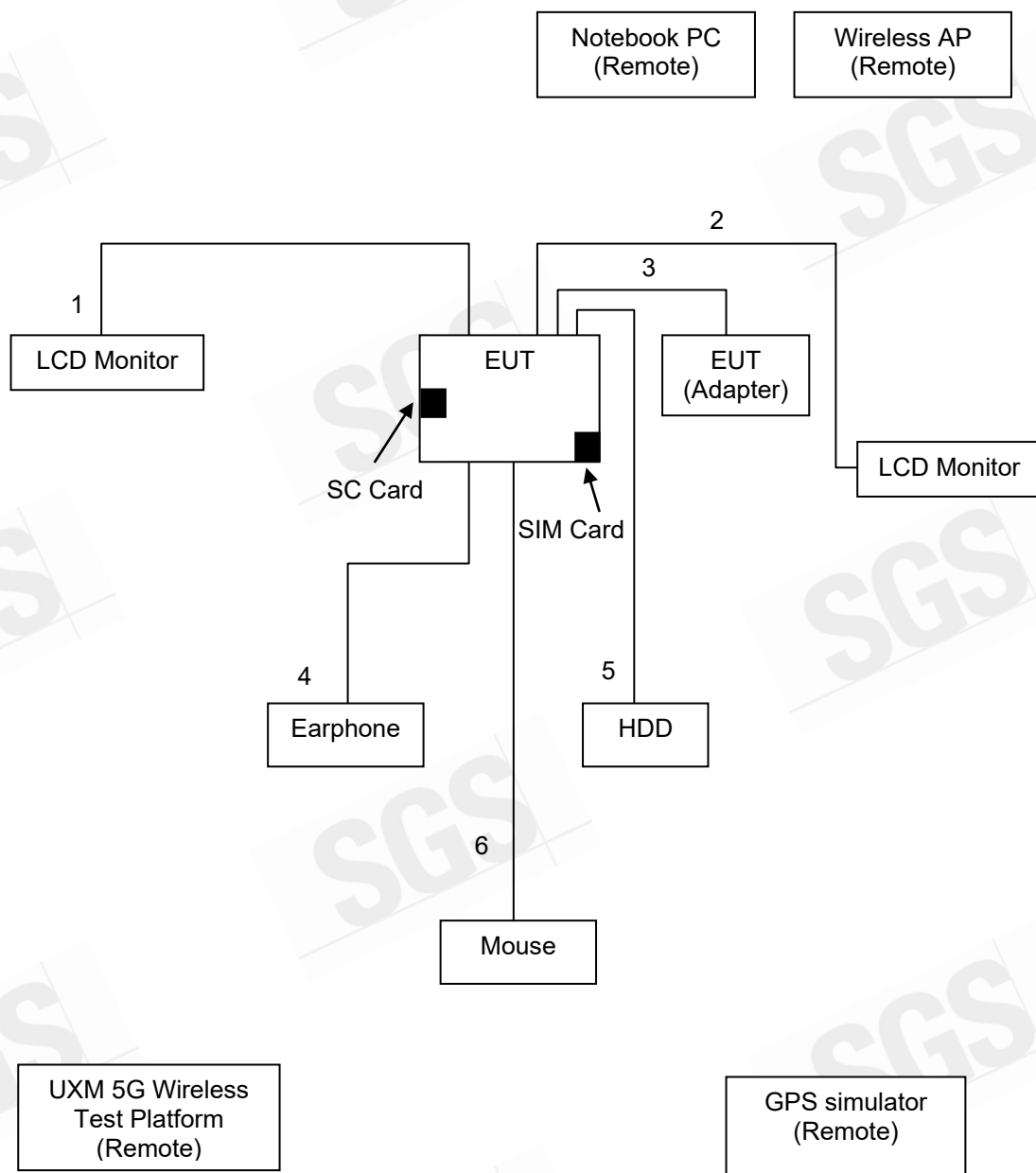
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1.7 Test Set-Up Configuration

Mode 19:

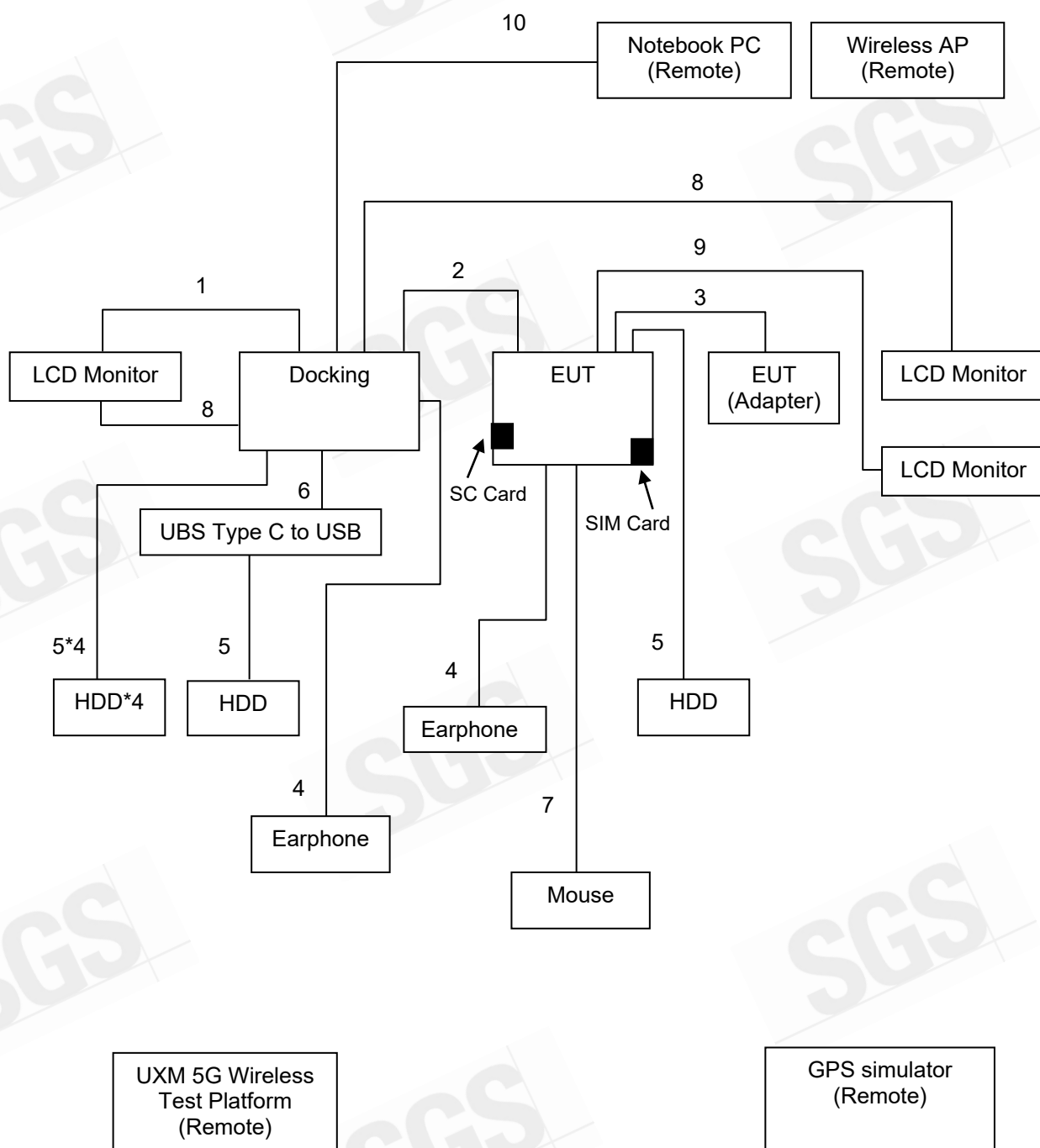


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Mode 30:



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1.8 Accessories Cable List

See clause 1.3 of this report

1.9 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 3/10m 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 frequency and amplitude of the worse emissions were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under 47 CFR FCC Part 15 Subpart B/CISPR 22/ICES-003

Test Standards	Status
47 CFR FCC Part 15 Subpart B CISPR 22 ICES-003	Applicable
Deviation from Standard	No deviation

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1.11 Decision Rules of Results

Reported measurement data comply with 47 CFR FCC Part 15 Subpart B and ICES-003.

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

1.12 Summary of Results

Standard	Test Type	Result
47 CFR FCC Part 15 Subpart B (Class B) ICES-003 Issue 7: October 2020 (Class B)	Conducted Emission	PASS
	Radiated Emission	PASS

1.13 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

Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

47 CFR 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.

ICES-003:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower.

Highest internal frequency (F_x)	Highest measurement frequency
$F_x \leq 108$ MHz	1 GHz
108 MHz < $F_x \leq 500$ MHz	2 GHz
500 MHz < $F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	5 x F_x up to a maximum of 40 GHz

Note: F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

47 CFR FCC Part 15 Subpart B:

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.

ICES-003:

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: The more stringent limit applies at transition frequencies.

*. The limit level in dBuV decreases linearly with the logarithm of frequency.

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2.3.2 Limits of Radiated Emissions

47 CFR 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	80	60	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.

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ICES-003 Limit:

- Detector Function : Quasi-peak

Frequency (MHz)	Class A (3 m) (dBuV/m)	Class A (10 m) (dBuV/m)	Class B (3 m) (dBuV/m)	Class B (10 m) (dBuV/m)
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Note: The more stringent limit applies at transition frequencies

- Detector Function : Peak, Average

Frequency (MHz)	Class A (3 m) (dBuV/m)		Class B (3 m) (dBuV/m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

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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	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	101073	06/21/2021	06/20/2022
LISN	Schwarzbeck	NSLK8128	5012	04/07/2021	04/06/2022
LISN	SCHWARZBECK	NSLK 8127	01022	04/15/2021	04/14/2022
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U _{lab} (k=2) of Conducted Emission is 3.06 dB.					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB					

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

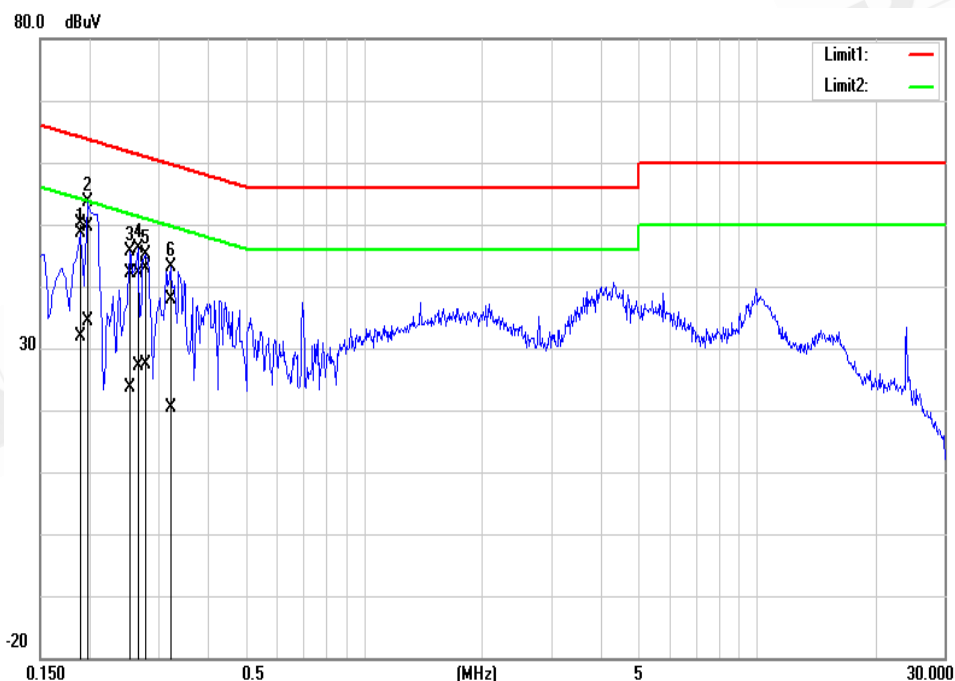
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2.4.3 Measurement Data:

Model no.	HSN-I45C-3	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2021/08/12
Test Mode	Mode 19	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	0.1900	49.89	31.67	0.14	50.03	31.81	64.03	54.04	-14.00	-22.23	Pass
2*	0.1980	49.56	34.33	0.14	49.70	34.47	63.69	53.69	-13.99	-19.22	Pass
3	0.2540	42.10	23.50	0.14	42.24	23.64	61.62	51.63	-19.38	-27.99	Pass
4	0.2660	42.09	26.92	0.14	42.23	27.06	61.24	51.24	-19.01	-24.18	Pass
5	0.2775	42.73	27.23	0.14	42.87	27.37	60.88	50.88	-18.01	-23.51	Pass
6	0.3220	37.78	20.11	0.15	37.93	20.26	59.65	49.66	-21.72	-29.40	Pass

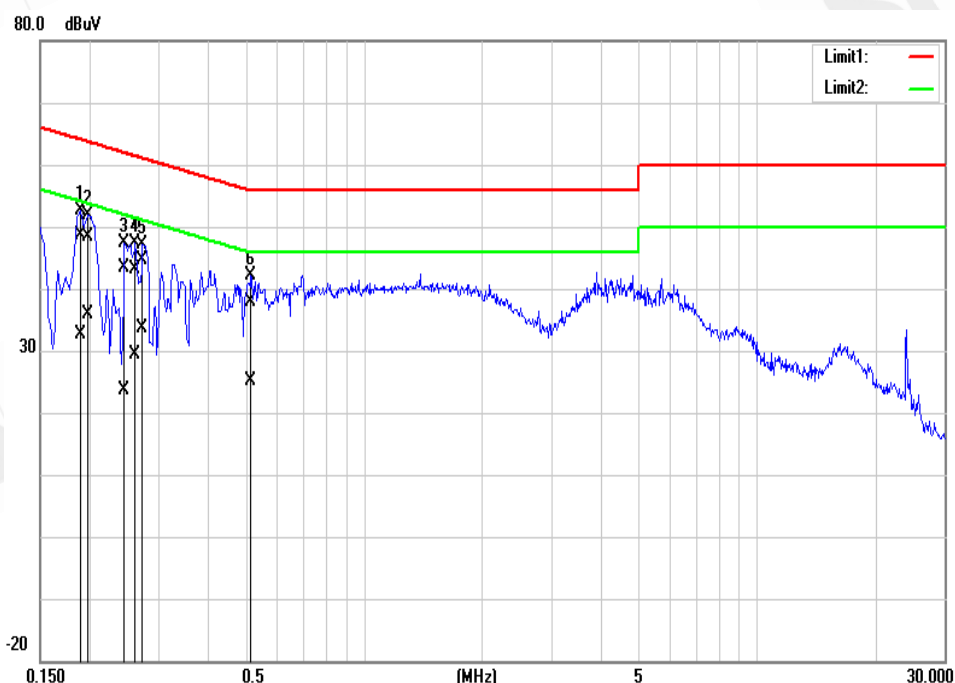
Note: L1 = Live Line

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Model no.	HSN-I45C-3	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2021/08/12
Test Mode	Mode 19	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1*	0.1900	48.50	32.53	0.15	48.65	32.68	64.03	54.04	-15.38	-21.36	Pass
2	0.1980	48.13	35.67	0.15	48.28	35.82	63.69	53.69	-15.41	-17.87	Pass
3	0.2460	43.27	23.36	0.15	43.42	23.51	61.89	51.89	-18.47	-28.38	Pass
4	0.2620	42.87	29.28	0.15	43.02	29.43	61.36	51.37	-18.34	-21.94	Pass
5	0.2740	44.40	33.44	0.15	44.55	33.59	60.99	51.00	-16.44	-17.41	Pass
6	0.5180	37.83	24.95	0.17	38.00	25.12	56.00	46.00	-18.00	-20.88	Pass

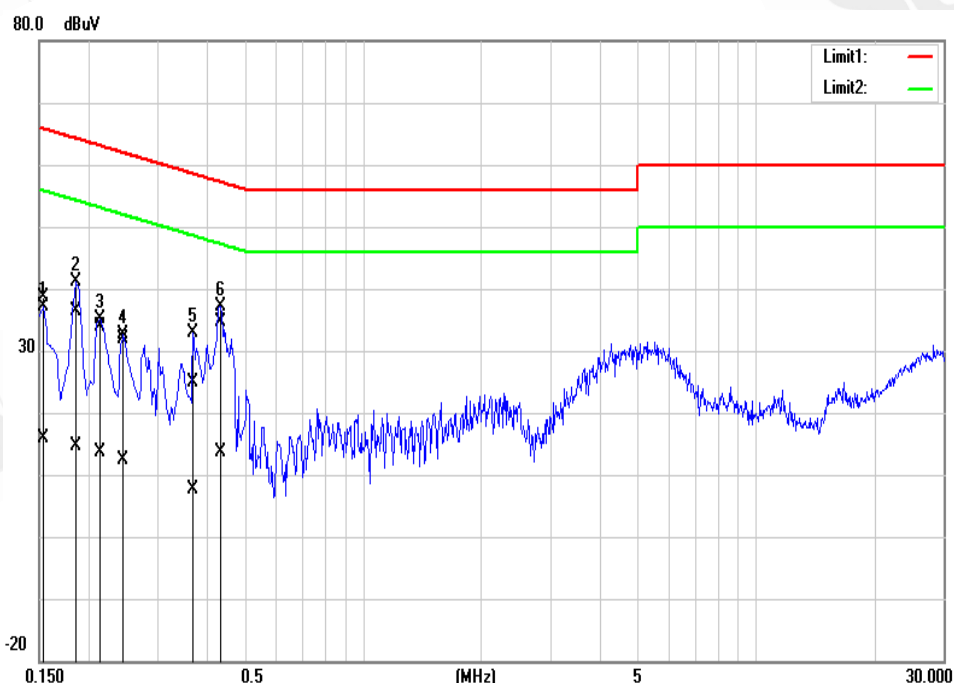
Note: N = Neutral Line

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Model no.	HSN-I45C-3	Line:	L1
Environmental Conditions	25°C, 54% RH	Tested Date	2021/08/14
Test Mode	Mode 30	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	0.1539	38.60	15.71	0.12	38.72	15.83	65.78	55.79	-27.06	-39.96	Pass
2	0.1860	36.34	14.40	0.14	36.48	14.54	64.21	54.21	-27.73	-39.67	Pass
3	0.2140	33.77	13.53	0.14	33.91	13.67	63.04	53.05	-29.13	-39.38	Pass
4	0.2460	31.85	12.27	0.14	31.99	12.41	61.89	51.89	-29.90	-39.48	Pass
5	0.3700	24.78	7.45	0.15	24.93	7.60	58.50	48.50	-33.57	-40.90	Pass
6*	0.4340	34.37	13.44	0.15	34.52	13.59	57.18	47.18	-22.66	-33.59	Pass

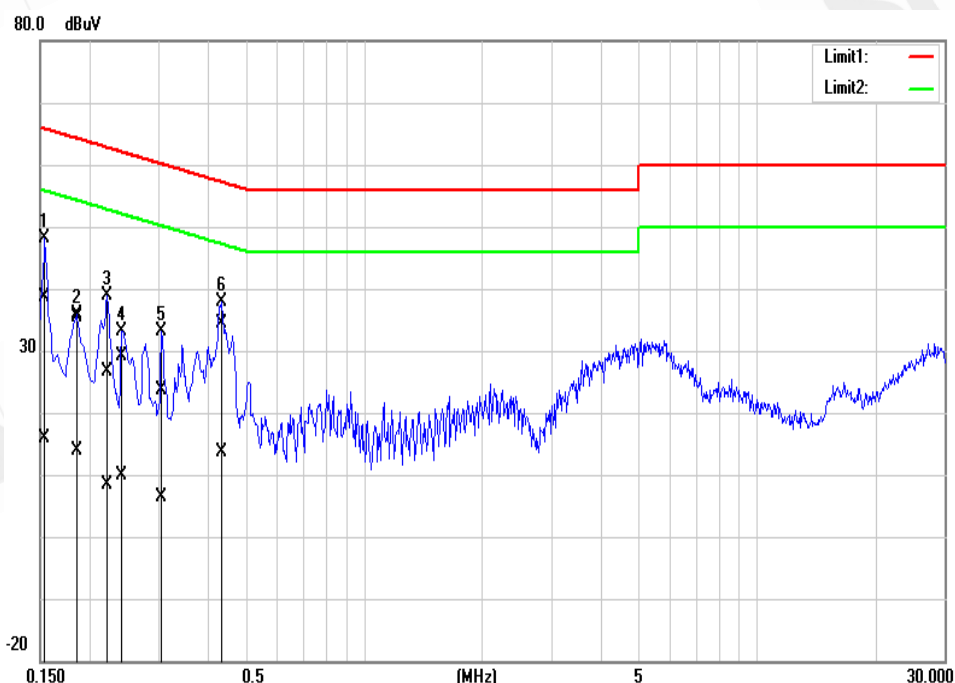
Note: L1 = Live Line

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Model no.	HSN-I45C-3	Line:	N
Environmental Conditions	25°C, 54% RH	Tested Date	2021/08/14
Test Mode	Mode 30	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1539	38.61	15.78	0.14	38.75	15.92	65.78	55.79	-27.03	-39.87	Pass
2	0.1860	35.24	13.68	0.15	35.39	13.83	64.21	54.21	-28.82	-40.38	Pass
3	0.2220	26.52	8.26	0.15	26.67	8.41	62.74	52.74	-36.07	-44.33	Pass
4	0.2420	29.08	9.80	0.15	29.23	9.95	62.02	52.03	-32.79	-42.08	Pass
5	0.3060	23.35	6.11	0.17	23.52	6.28	60.08	50.08	-36.56	-43.80	Pass
6*	0.4340	34.29	13.40	0.17	34.46	13.57	57.18	47.18	-22.72	-33.61	Pass

Note: N = 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	02/22/2021	02/21/2022
Bilog Antenna	TESEQ	CBL 6112D	31675	03/15/2021	03/14/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	100961	05/25/2021	05/24/2022
EMI Test Receiver	R&S	ESCI	100962	06/02/2021	06/01/2022
Pre-Amplifier	HP	8447D	2944A07754	04/28/2021	04/27/2022
Pre-Amplifier	HP	8447D	2944A08150	04/28/2021	04/27/2022
AC POWER SOURCE	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)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty Ulab (k=2) of Radiated Emission is 4.15 dB. (30MHz-1GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.22 dB. (30MHz-1GHz)					

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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	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/28/2021	04/27/2022
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021
Horn Antenna	EMCO	3117	00055167	12/01/2020	11/30/2021
Pre-Amplifier	EMCI	EMC051845	980040	04/28/2021	04/27/2022
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/02/2020	09/01/2021
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/18/2021	08/17/2022
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: 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 measurement is 4.94 dB. (1-6GHz)					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission measurement is 5.24 dB. (6-18GHz)					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission measurement is 4.28 dB. (18-40GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB. (1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB. (6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB. (18-40GHz)					

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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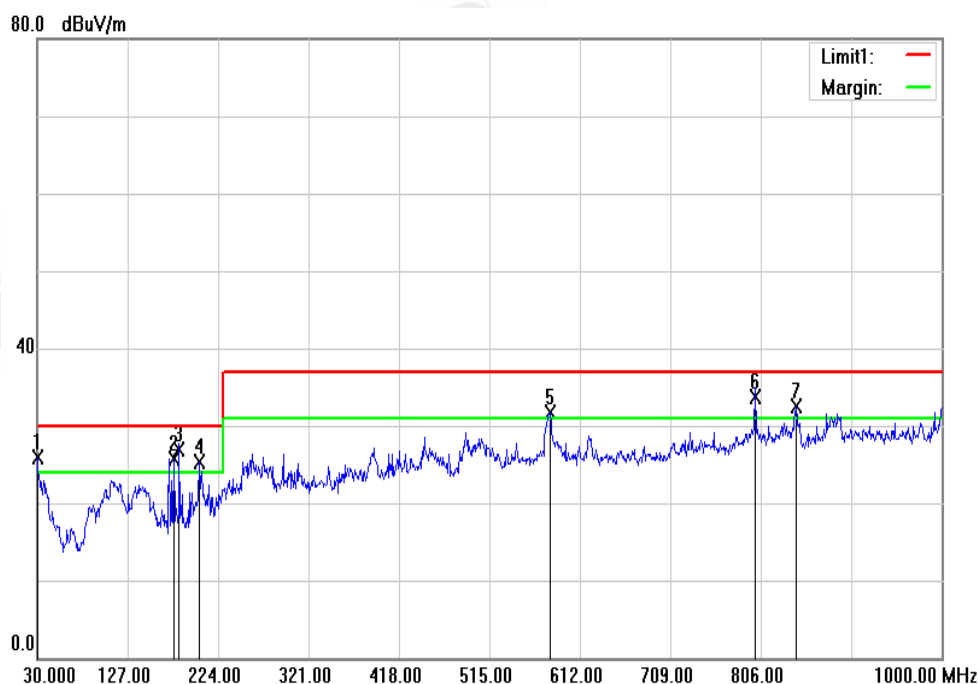
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2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	28.10	-2.28	25.82	30.00	-4.18	100	1	QP
2	176.4700	35.46	-9.74	25.72	30.00	-4.28	100	138	QP
3	182.2900	36.94	-9.96	26.98	30.00	-3.02	100	165	QP
4	203.6300	34.55	-9.30	25.25	30.00	-4.75	100	191	QP
5	579.9900	30.56	1.09	31.65	37.00	-5.35	299	0	QP
6	800.1800	30.09	3.71	33.80	37.00	-3.20	199	359	QP
7	843.8300	28.38	4.19	32.57	37.00	-4.43	199	359	QP

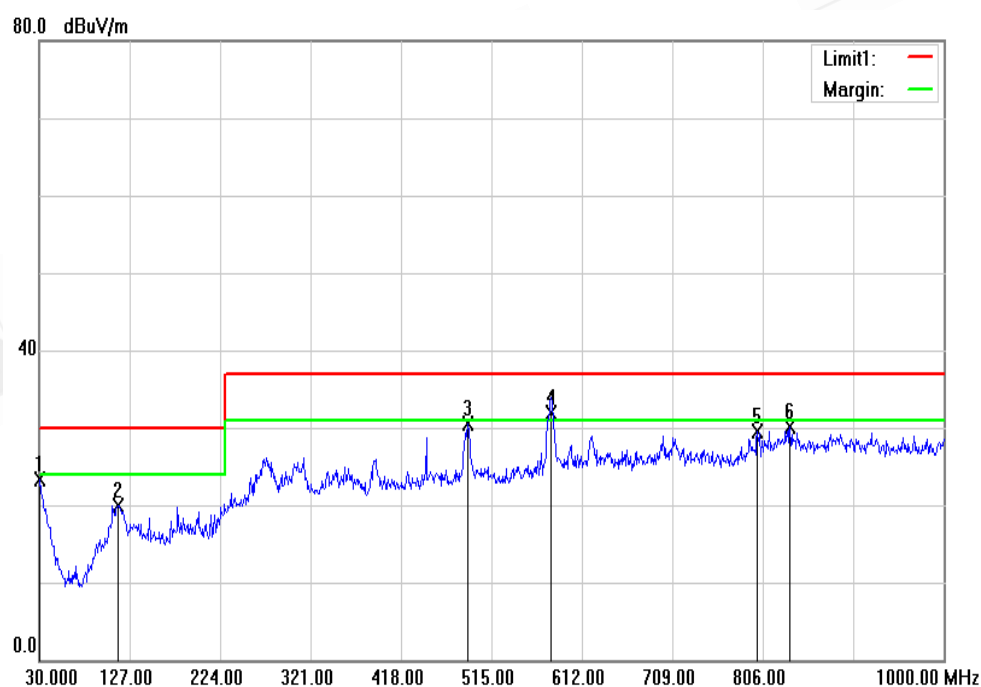
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.76	-3.54	23.22	30.00	-6.78	399	359	QP
2	114.3900	28.97	-9.04	19.93	30.00	-10.07	399	100	QP
3	489.7800	33.41	-2.82	30.59	37.00	-6.41	199	360	QP
4	579.0200	32.81	-0.94	31.87	37.00	-5.13	100	0	QP
5	800.1800	27.97	1.55	29.52	37.00	-7.48	300	359	QP
6	835.1000	28.18	1.84	30.02	37.00	-6.98	100	343	QP

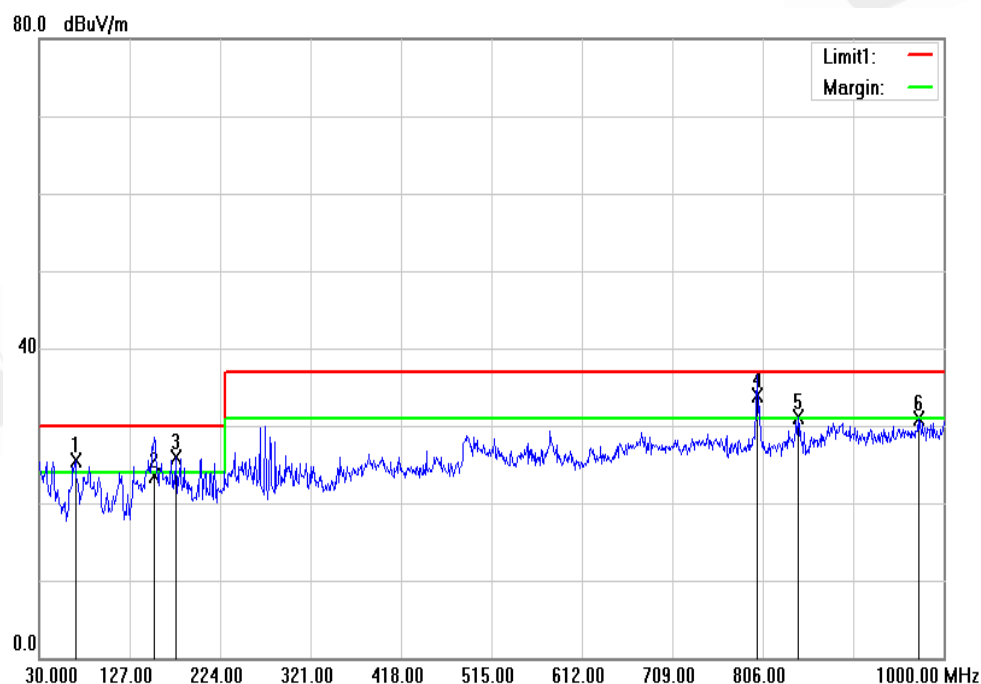
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	68.8000	39.73	-14.22	25.51	30.00	-4.49	200	225	QP
2	153.1900	32.71	-9.15	23.56	30.00	-6.44	100	79	QP
3	176.4700	35.69	-9.74	25.95	30.00	-4.05	100	360	QP
4	800.1800	30.26	3.71	33.97	37.00	-3.03	200	359	QP
5	843.8300	26.99	4.19	31.18	37.00	-5.82	200	359	QP
6	972.8400	24.72	6.11	30.83	37.00	-6.17	200	0	QP

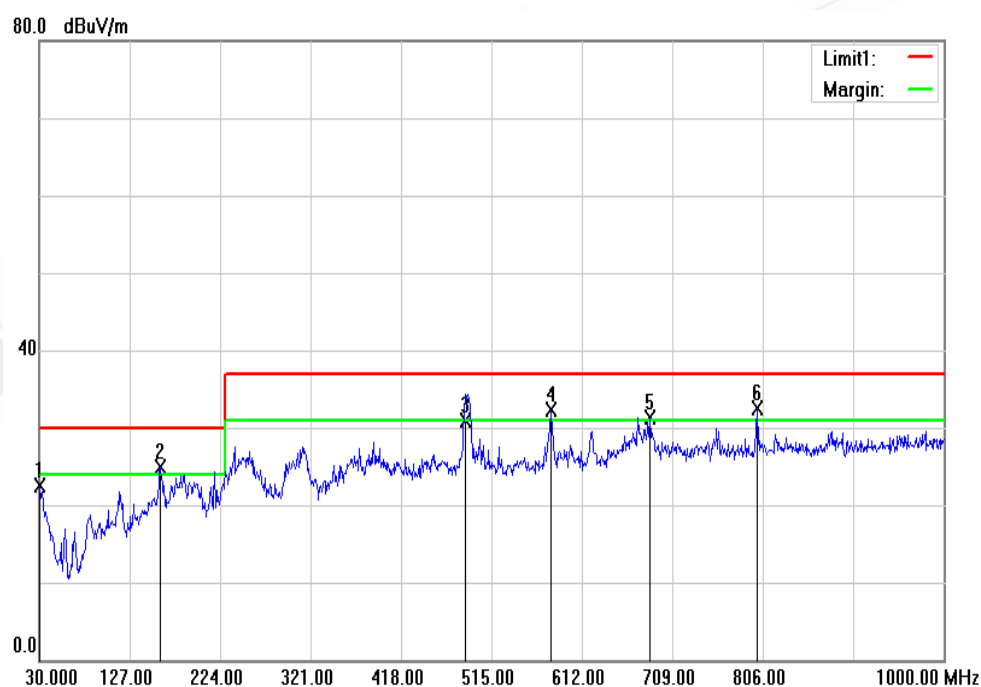
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	25.98	-3.54	22.44	30.00	-7.56	300	243	QP
2	159.9800	35.44	-10.55	24.89	30.00	-5.11	400	158	QP
3	486.8700	33.76	-2.76	31.00	37.00	-6.00	100	359	QP
4	579.0200	33.20	-0.94	32.26	37.00	-4.74	100	2	QP
5	684.7500	31.36	-0.03	31.33	37.00	-5.67	400	77	QP
6	800.1800	30.95	1.55	32.50	37.00	-4.50	299	0	QP

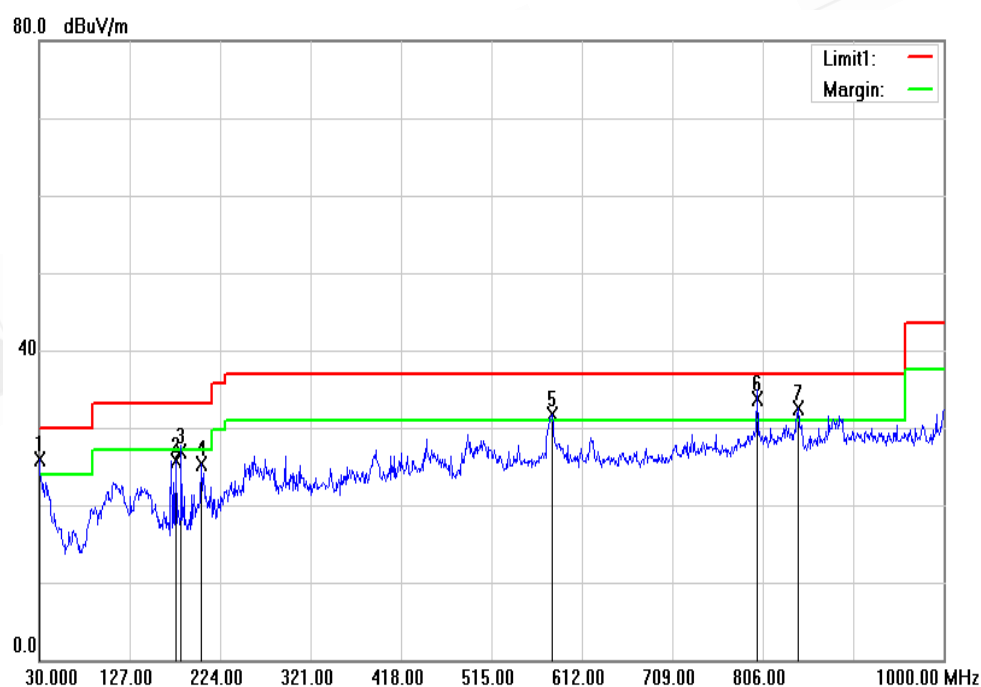
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	28.10	-2.28	25.82	30.00	-4.18	100	1	QP
2	176.4700	35.46	-9.74	25.72	33.10	-7.38	100	138	QP
3	182.2900	36.94	-9.96	26.98	33.10	-6.12	100	165	QP
4	203.6300	34.55	-9.30	25.25	33.10	-7.85	100	191	QP
5	579.9900	30.56	1.09	31.65	37.00	-5.35	299	0	QP
6	800.1800	30.09	3.71	33.80	37.00	-3.20	199	359	QP
7	843.8300	28.38	4.19	32.57	37.00	-4.43	199	359	QP

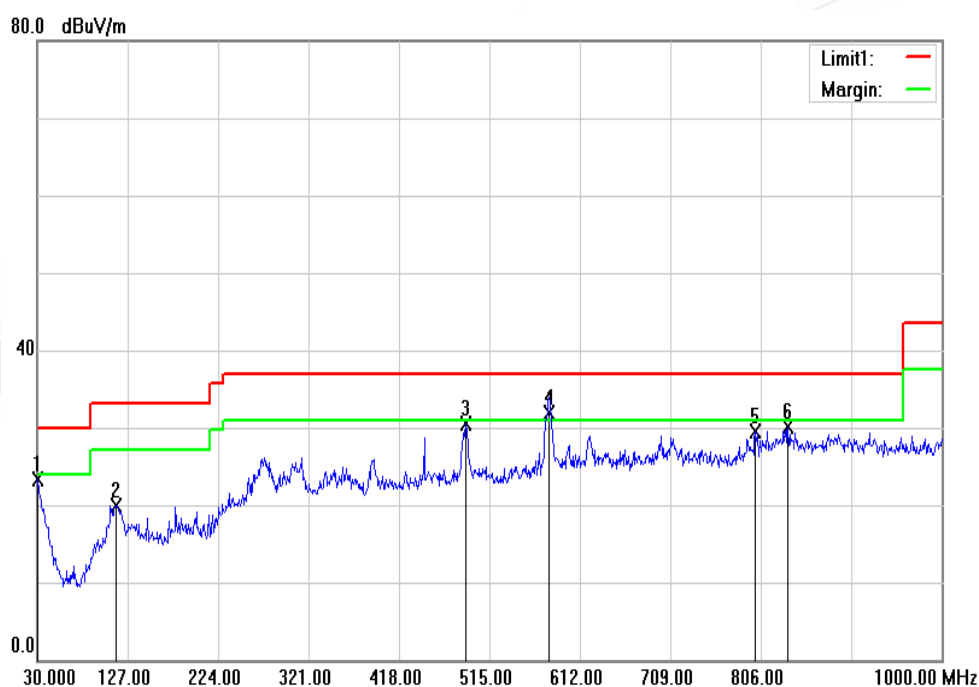
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Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.76	-3.54	23.22	30.00	-6.78	399	359	QP
2	114.3900	28.97	-9.04	19.93	33.10	-13.17	399	100	QP
3	489.7800	33.41	-2.82	30.59	37.00	-6.41	199	360	QP
4	579.0200	32.81	-0.94	31.87	37.00	-5.13	100	0	QP
5	800.1800	27.97	1.55	29.52	37.00	-7.48	300	359	QP
6	835.1000	28.18	1.84	30.02	37.00	-6.98	100	343	QP

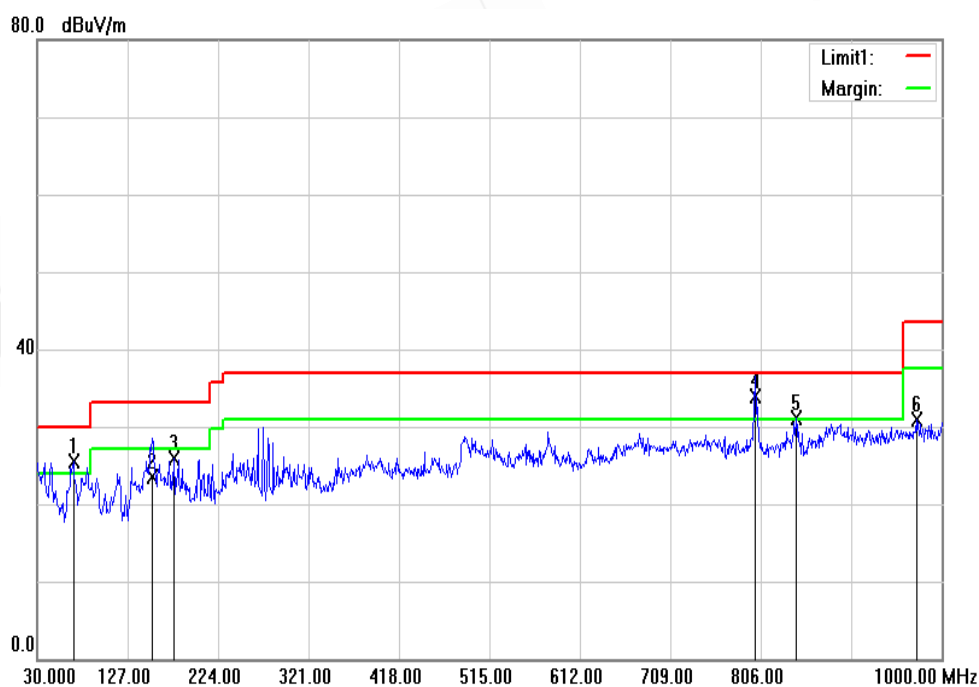
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	68.8000	39.73	-14.22	25.51	30.00	-4.49	200	225	QP
2	153.1900	32.71	-9.15	23.56	33.10	-9.54	100	79	QP
3	176.4700	35.69	-9.74	25.95	33.10	-7.15	100	360	QP
4	800.1800	30.26	3.71	33.97	37.00	-3.03	200	359	QP
5	843.8300	26.99	4.19	31.18	37.00	-5.82	200	359	QP
6	972.8400	24.72	6.11	30.83	43.50	-12.67	200	0	QP

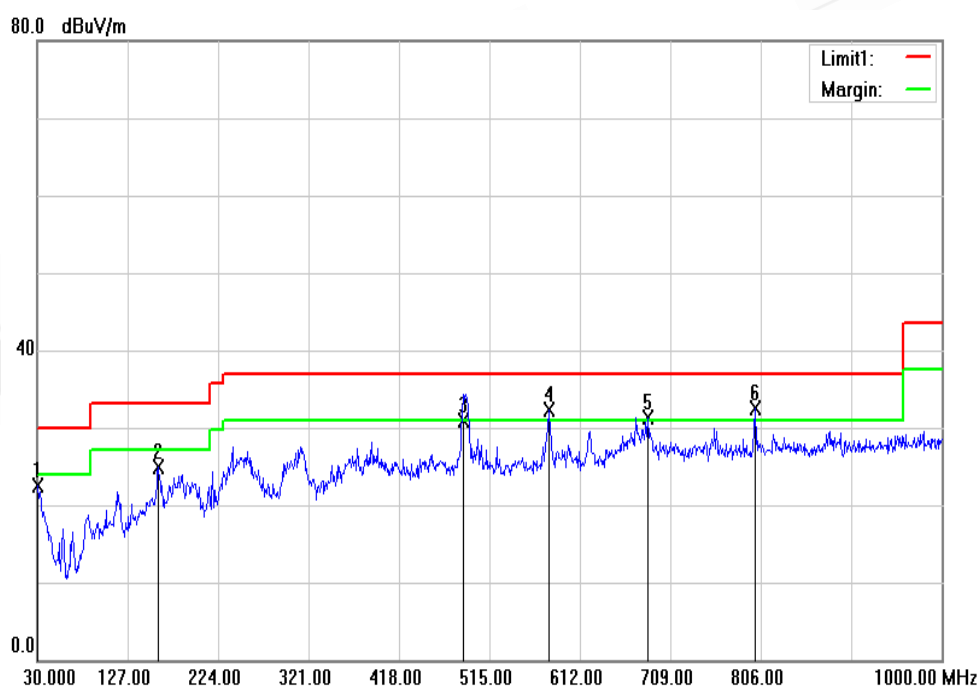
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	25.98	-3.54	22.44	30.00	-7.56	300	243	QP
2	159.9800	35.44	-10.55	24.89	33.10	-8.21	400	158	QP
3	486.8700	33.76	-2.76	31.00	37.00	-6.00	100	359	QP
4	579.0200	33.20	-0.94	32.26	37.00	-4.74	100	2	QP
5	684.7500	31.36	-0.03	31.33	37.00	-5.67	400	77	QP
6	800.1800	30.95	1.55	32.50	37.00	-4.50	299	0	QP

REMARKS: The other emission levels were very low against the limit.

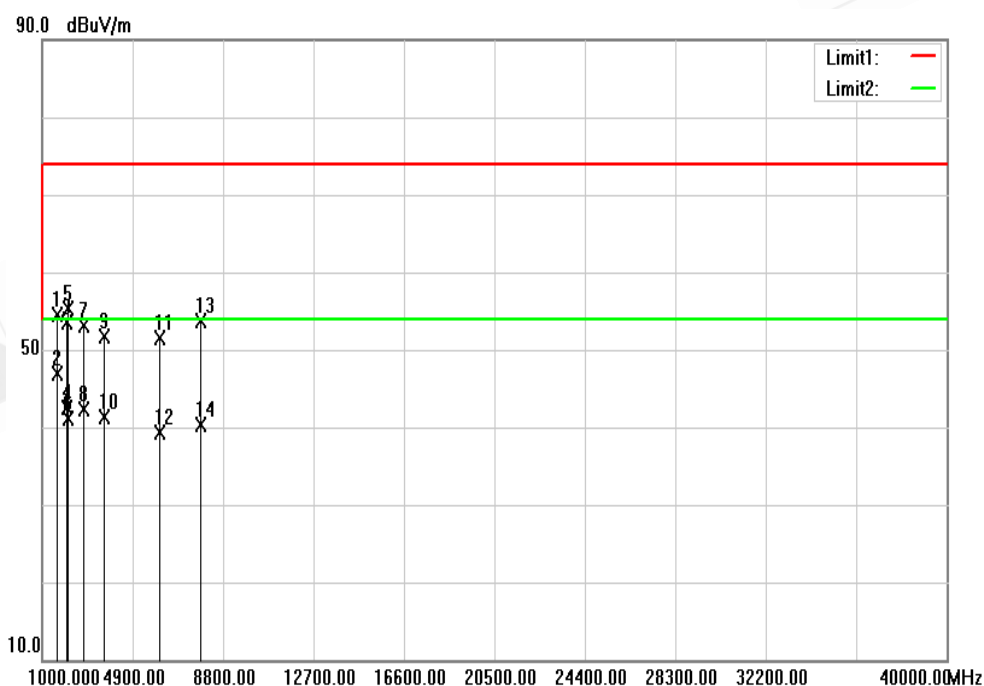
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Above 1GHz

Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1603.500	71.84	-17.28	54.56	74.00	-19.44	100	264	peak
2	1603.500	64.27	-17.28	46.99	54.00	-7.01	100	264	AVG
3	2045.500	66.58	-13.17	53.41	74.00	-20.59	200	248	peak
4	2045.500	55.69	-13.17	42.52	54.00	-11.48	200	248	AVG
5	2088.000	68.24	-12.90	55.34	74.00	-18.66	200	261	peak
6	2088.000	54.03	-12.90	41.13	54.00	-12.87	200	261	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	2759.500	65.81	-12.63	53.18	74.00	-20.82	200	294	peak
8	2759.500	54.98	-12.63	42.35	54.00	-11.65	200	294	AVG
9	3643.500	62.71	-11.04	51.67	74.00	-22.33	200	261	peak
10	3643.500	52.28	-11.04	41.24	54.00	-12.76	200	261	AVG
11	6049.000	55.62	-4.14	51.48	74.00	-22.52	100	238	peak
12	6049.000	43.51	-4.14	39.37	54.00	-14.63	100	238	AVG
13	7817.000	56.43	-2.80	53.63	74.00	-20.37	243	360	peak
14	7817.000	43.07	-2.80	40.27	54.00	-13.73	243	360	AVG

REMARKS:

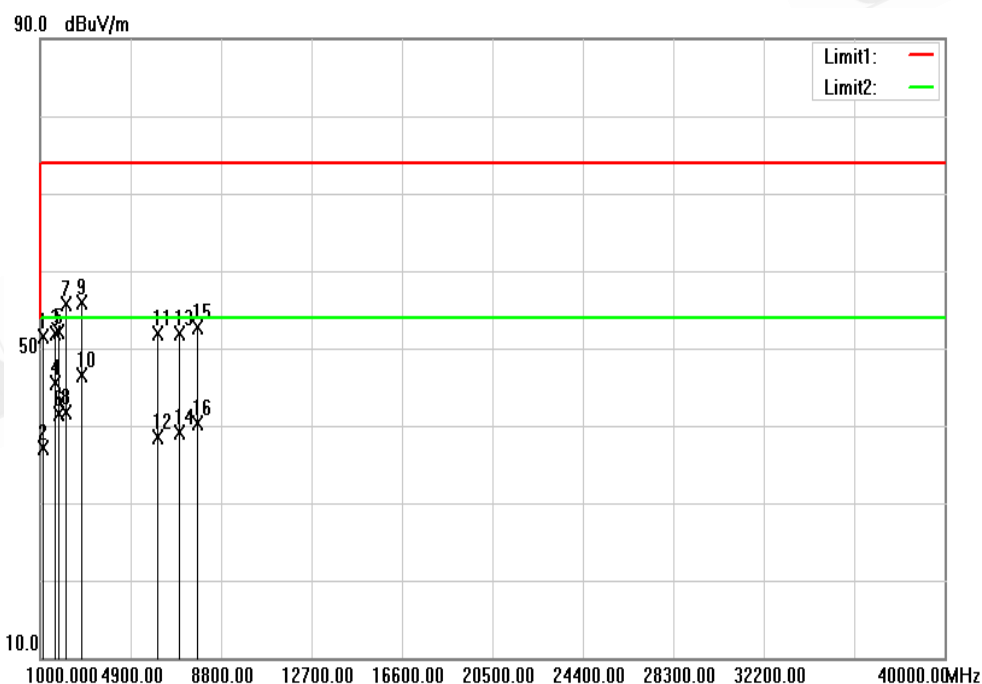
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I45C-3	Test Mode	Mode 19
Environmental Conditions	24°C , 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1110.500	69.96	-18.37	51.59	74.00	-22.41	200	274	peak
2	1110.500	55.47	-18.37	37.10	54.00	-16.90	200	274	AVG
3	1603.500	69.20	-17.28	51.92	74.00	-22.08	200	217	peak
4	1603.500	62.81	-17.28	45.53	54.00	-8.47	200	217	AVG
5	1782.000	68.10	-16.02	52.08	74.00	-21.92	200	280	peak
6	1782.000	57.46	-16.02	41.44	54.00	-12.56	200	280	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	2088.000	68.65	-12.90	55.75	74.00	-18.25	100	193	peak
8	2088.000	54.61	-12.90	41.71	54.00	-12.29	100	193	AVG
9	2759.500	68.54	-12.63	55.91	74.00	-18.09	100	180	peak
10	2759.500	59.17	-12.63	46.54	54.00	-7.46	100	180	AVG
11	6057.500	56.07	-4.16	51.91	74.00	-22.09	300	360	peak
12	6057.500	42.73	-4.16	38.57	54.00	-15.43	300	360	AVG
13	6975.500	55.00	-3.09	51.91	74.00	-22.09	225	360	peak
14	6975.500	42.23	-3.09	39.14	54.00	-14.86	225	360	AVG
15	7783.000	55.46	-2.77	52.69	74.00	-21.31	300	359	peak
16	7783.000	43.11	-2.77	40.34	54.00	-13.66	300	359	AVG

REMARKS:

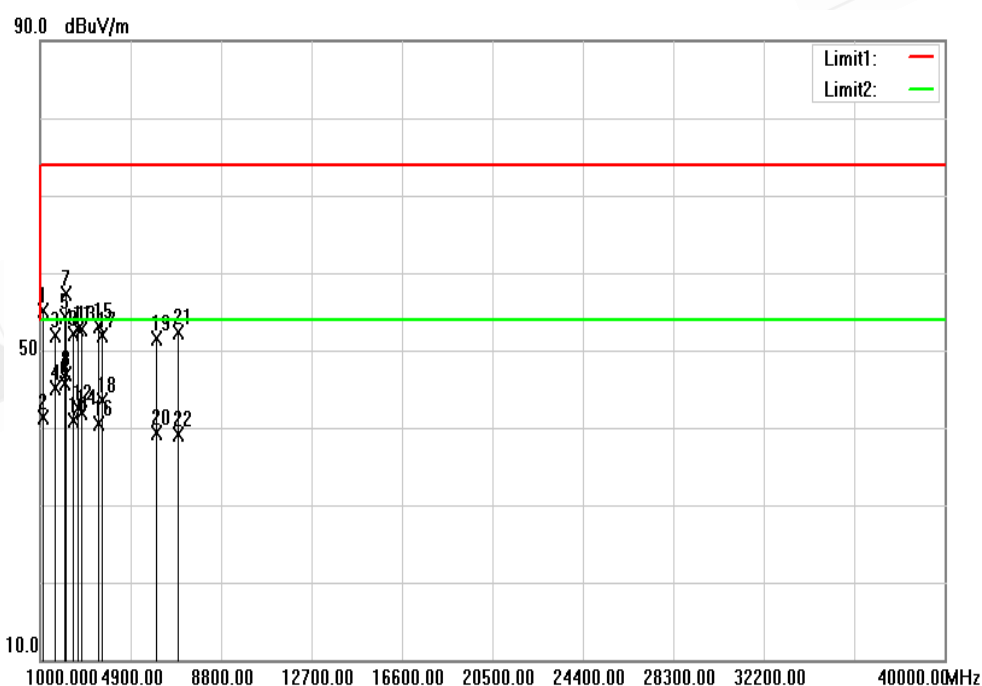
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1110.500	73.46	-18.37	55.09	74.00	-18.91	300	284	peak
2	1110.500	59.71	-18.37	41.34	54.00	-12.66	300	284	AVG
3	1603.500	69.24	-17.28	51.96	74.00	-22.04	100	261	peak
4	1603.500	62.46	-17.28	45.18	54.00	-8.82	100	261	AVG
5	2045.500	67.44	-13.17	54.27	74.00	-19.73	300	253	peak
6	2045.500	58.96	-13.17	45.79	54.00	-8.21	300	253	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	2088.000	70.12	-12.90	57.22	74.00	-16.78	100	199	peak
8	2088.000	59.89	-12.90	46.99	54.00	-7.01	100	199	AVG
9	2377.000	65.56	-13.49	52.07	74.00	-21.93	200	6	peak
10	2377.000	54.38	-13.49	40.89	54.00	-13.11	200	6	AVG
11	2623.500	65.75	-13.09	52.66	74.00	-21.34	100	268	peak
12	2623.500	55.66	-13.09	42.57	54.00	-11.43	100	268	AVG
13	2759.500	65.25	-12.63	52.62	74.00	-21.38	100	268	peak
14	2759.500	54.55	-12.63	41.92	54.00	-12.08	100	268	AVG
15	3465.000	64.81	-11.72	53.09	74.00	-20.91	100	191	peak
16	3465.000	52.31	-11.72	40.59	54.00	-13.41	100	191	AVG
17	3643.500	63.02	-11.04	51.98	74.00	-22.02	100	253	peak
18	3643.500	54.51	-11.04	43.47	54.00	-10.53	100	253	AVG
19	6023.500	55.43	-3.87	51.56	74.00	-22.44	100	261	peak
20	6023.500	43.25	-3.87	39.38	54.00	-14.62	100	261	AVG
21	6899.000	55.73	-3.37	52.36	74.00	-21.64	100	59	peak
22	6899.000	42.55	-3.37	39.18	54.00	-14.82	100	59	AVG

REMARKS:

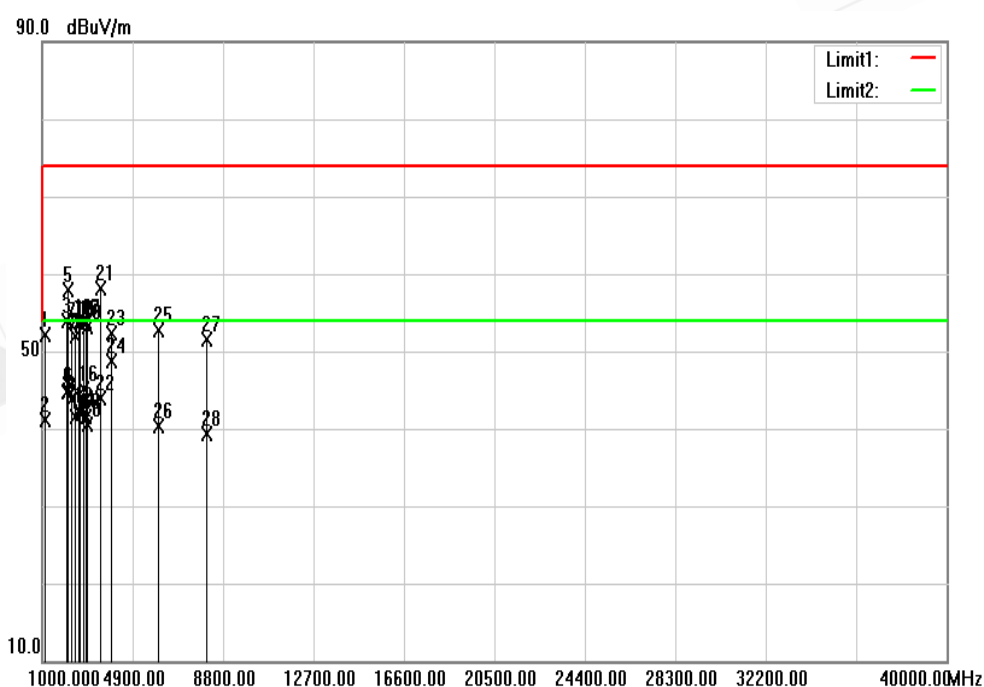
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I45C-3	Test Mode	Mode 30
Environmental Conditions	24°C, 56% RH	Tested Date	2021/08/29
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1110.500	70.52	-18.37	52.15	74.00	-21.85	100	199	peak
2	1110.500	59.49	-18.37	41.12	54.00	-12.88	100	199	AVG
3	2045.500	67.02	-13.17	53.85	74.00	-20.15	200	237	peak
4	2045.500	57.82	-13.17	44.65	54.00	-9.35	200	237	AVG
5	2088.000	70.78	-12.90	57.88	74.00	-16.12	100	199	peak
6	2088.000	57.89	-12.90	44.99	54.00	-9.01	100	199	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	2266.500	66.66	-13.40	53.26	74.00	-20.74	200	20	peak
8	2266.500	57.15	-13.40	43.75	54.00	-10.25	200	20	AVG
9	2368.500	65.49	-13.50	51.99	74.00	-22.01	200	90	peak
10	2368.500	55.09	-13.50	41.59	54.00	-12.41	200	90	AVG
11	2538.500	66.93	-13.27	53.66	74.00	-20.34	300	21	peak
12	2538.500	55.59	-13.27	42.32	54.00	-11.68	300	21	AVG
13	2632.000	66.58	-13.09	53.49	74.00	-20.51	200	36	peak
14	2632.000	55.01	-13.09	41.92	54.00	-12.08	200	36	AVG
15	2759.500	66.05	-12.63	53.42	74.00	-20.58	300	208	peak
16	2759.500	57.76	-12.63	45.13	54.00	-8.87	300	208	AVG
17	2836.000	66.18	-12.41	53.77	74.00	-20.23	300	348	peak
18	2836.000	53.90	-12.41	41.49	54.00	-12.51	300	348	AVG
19	2929.500	65.31	-12.19	53.12	74.00	-20.88	100	175	peak
20	2929.500	52.76	-12.19	40.57	54.00	-13.43	100	175	AVG
21	3465.000	69.79	-11.72	58.07	74.00	-15.93	200	183	peak
22	3465.000	55.53	-11.72	43.81	54.00	-10.19	200	183	AVG
23	4000.500	63.08	-10.84	52.24	74.00	-21.76	100	167	peak
24	4000.500	59.46	-10.84	48.62	54.00	-5.38	100	167	AVG
25	6006.500	56.44	-3.69	52.75	74.00	-21.25	169	0	peak
26	6006.500	44.09	-3.69	40.40	54.00	-13.60	169	0	AVG
27	8097.500	54.26	-2.80	51.46	74.00	-22.54	234	360	peak
28	8097.500	42.13	-2.80	39.33	54.00	-14.67	234	360	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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APPENDIX

Photograph of Testing General Set-up

CE Testing Set-up

Model No.: HSN-I45C-3

Mode_19_+



Mode_19_-



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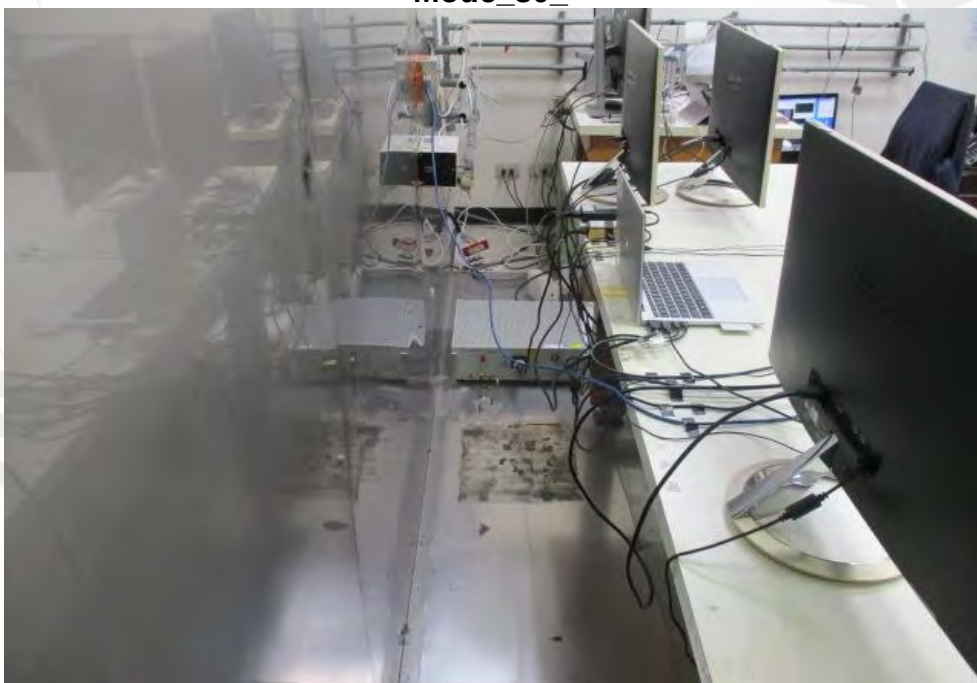
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Model No.: HSN-I45C-3

Mode_30_+



Mode_30_-



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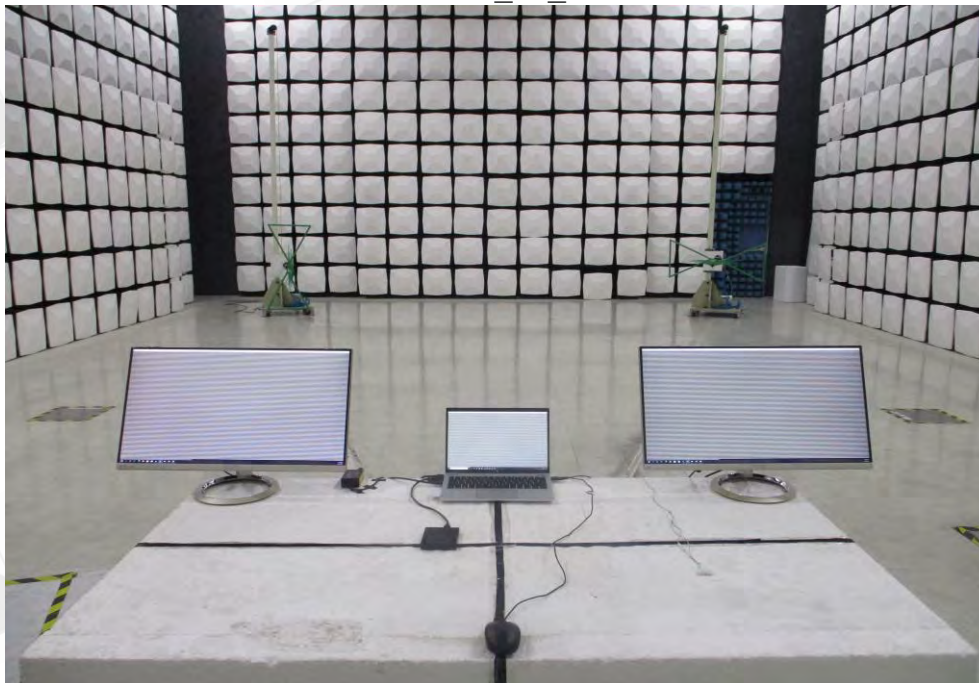
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RE Testing Set-up

Below 1GHz

Model No.: HSN-I45C-3

Mode_19_ +



Mode_19_ -



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Model No.: HSN-I45C-3

Mode_30_+



Mode_30_-



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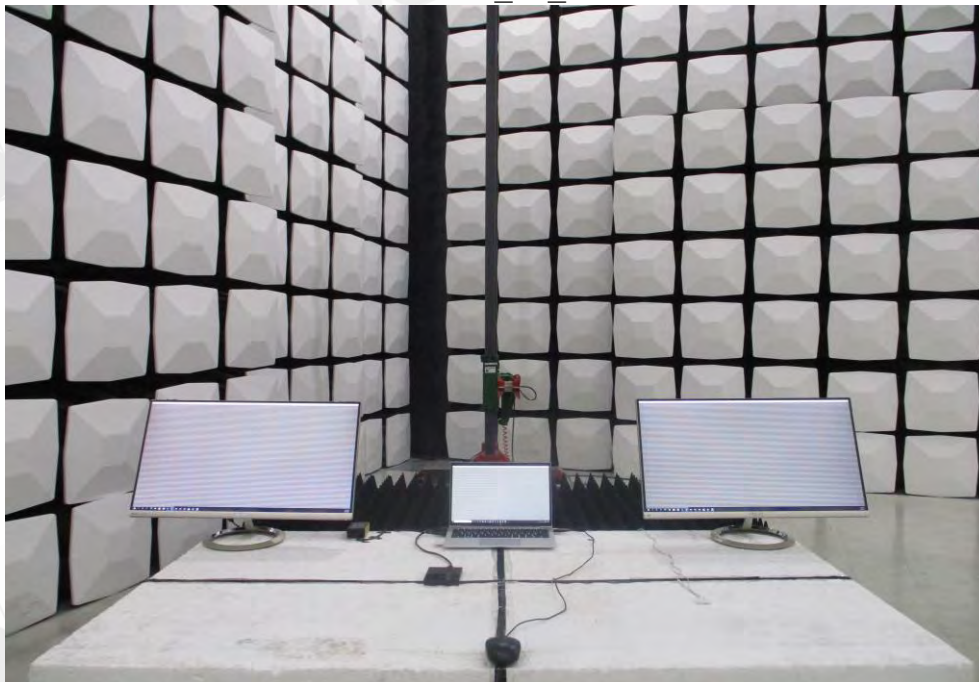
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Above 1GHz

Model No.: HSN-I45C-3

Mode 19 +



Mode 19 -



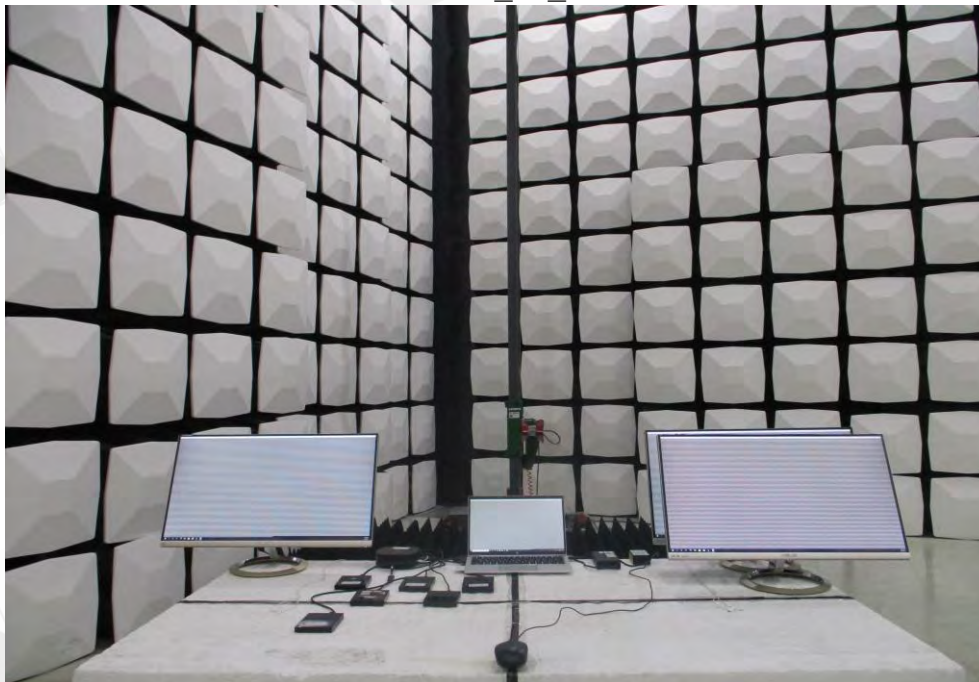
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Model No.: HSN-I45C-3

Mode_30_+



Mode_30_-



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Photographs of Product Exterior

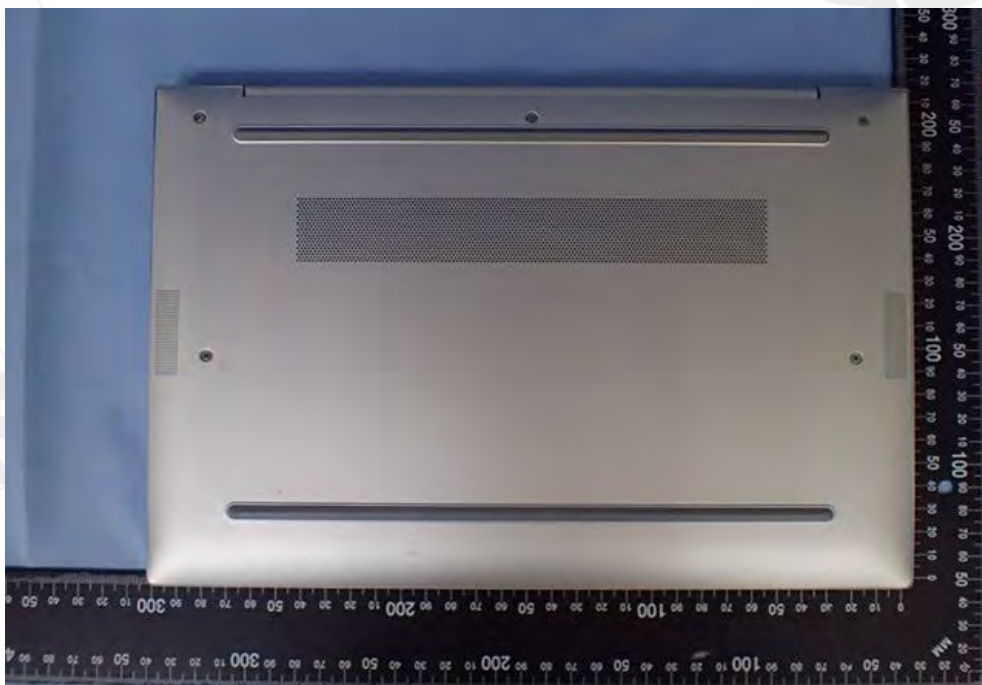
Model No.: HSN-I45C-3



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Adapter Model No.: TPN-CA10



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Adapter Model No.: TPN-CA20



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Adapter Model No.: TPN-CA21



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Adapter Model No.: TPN-AA07



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Adapter Model No.: TPN-LA12



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Adapter Model No.: TPN-LA19



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Adapter Model No.: TPN-LA23



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Adapter Model No.: TPN-DA15



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Adapter Model No.: TPN-DA20



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Adapter Model No.: TPN-HA01



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