FCC SDoC REPORT
ICES-003 TEST REPORT

Test Report No.	**: T210723L04-A-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-6**
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. 17, 2021**
Date of Test	**: Aug. 17 ~ Oct. 28, 2021**
Date of Issue	**: Nov. 16, 2021**

Test Result :	**PASS**

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: Hex Chiang ***Date:*** Nov. 16, 2021

Hex Chiang (Supervisor)

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Revision History

Revision	Report Number	Description	Issue Date
00	T210723L04-A-F	Original	Nov. 16, 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-6
Added Model(s) : N/A
Variant Description : See the following note.

Note:

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

Platform	Main Board	VGA Information	Rating
DIS	Inventec / 6050A3310001	Nvidia / QN20-M1-R	65W / 110W
UMA	Inventec / 6050A3299901	N/A	45W / 65W / 110W

2. There are two types for sale with same model number. Please refer to the external photographs for the detail information.

Difference	Type 1	Type 2
SIM Card I/O	O	X

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1.3 Details of EUT

EUT Power Rating	AC 100 ~ 240V	
Highest operate description	7.1GHz	
AC Adapter	Chicony (hp)	TPN-CA10
		TPN-CA20
		TPN-CA21
		TPN-CA24
	Acbel (hp)	TPN-AA07
	Lite-on (hp)	TPN-LA12
		TPN-LA19
		TPN-LA23
	Delta (hp)	TPN-DA15
		TPN-DA20
		TPN-DA24
	Honor (hp)	TPN-HA01
Adapter Power Rating	**For TPN-CA21; TPN-CA10; 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-AA07; TPN-CA20; TPN-DA15; TPN-LA19 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	
	For TPN-DA24 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 5A/ 20Vdc, 5A	
	For TPN-CA24 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: USB-A 5Vdc, 2A O/P: UBV-C 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 5A/ 20Vdc, 5A	
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	

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Main Board (ADL DIS)	Inventec	6050A3310001
Main Board (ADL UMA)	Inventec	6050A3299901
CPU	Intel	i5-1235U 1.30GHz
		i5-1245U 1.60GHz
		i5-1240P 1.70GHz
		i5-1250P 1.70GHz
		i7-1255U 1.70GHz
		i7-1265U 1.80GHz
		i7-1260P 2.10GHz
		i7-1270P 2.20GHz
		i7-1280P 1.80GHz
Memory	DDR 5 4800MHz (8GB/16GB/32GB)	
16.0” LCD Panel	AUO	B160UAN03.0
		B160UAK01.0
		B160UAN01.H
	BOE	NV160WUM-N41
		NE160WUM-N61
	INX	N160JCA-EEK
		N160JCN-EEK
		N160JCG-GT1
	IVO	R160NW41
		X160NV42
	LGD	LP160WU1
	CSOT	MNG007JA1-1
SSD	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)

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SSD	Kioxia	KBG40ZNV256G (256GB)
		KBG40ZNV512G (512GB)
	Intel	SSDPEKNU512GZH (512GB)
	Western Digital	SDCQNRY-256G-1006 (256GB)
		SDBPNPZ-256G-1006 (256GB)
		SDCPNRY-256G-1006 (256GB)
		SDCQNRY-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)
	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-DB0J
		TPN-DB0K
	Simplo (hp)	HSTNN-IB9X
		HSTNN-IB9Y
		HSTNN-IB9Z
	LG Energy Solution (hp)	HSTNN-LB8V
	CosMX (hp)	HSTNN-OB2J

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Wireless LAN+Bluetooth Combo	Intel	AX211NGW
		AX211D2W
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
VGA Chip (DIS only)	Nvidia	QN20-M1-R

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Pre-test Mode

Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	NFC	WWAN	CCD	Adapter	Main Board	VGA Chip	Docking
1	Intel i5-1235U 1.30GHz	8GB + 8GB DDR5 4800MHz	AUO B160UAN03.0	Samsung MZVL2256HCHQ-00BH7 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) TPN-DB0J	Intel AX211D2W	WNC XRAV-1	N/A	Chicony CKFK52421004330LH	Chicony (hp) TPN-CA10	Inventec 6050A3310001	Nvidia QN20-M1-R	N/A
2	Intel i5-1245U 1.60GHz	8GB + 16GB DDR5 4800MHz	AUO B160UAK01.0	Samsung MZVLQ256HBJD-00BH1 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Dynapack (hp) TPN-DB0K	Intel AX211NGW	WNC XRAV-1	Fibocom L860-GL-16	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA10	Inventec 6050A3299901	N/A	N/A
3	Intel i5-1240P 1.70GHz	8GB + 32GB DDR5 4800MHz	AUO B160UAN01.H	Samsung MZVL2256HCHQ-00BH1 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Simplo (hp) HSTNN-IB9X	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA20	Inventec 6050A3299901	N/A	N/A
4	Intel i5-1250P 1.70GHz	16GB + 16GB DDR5 4800MHz	BOE NV160WUM-N41	Samsung MZVL2512HCJQ-00BH7 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF506N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
5	Intel i7-1255U 1.70GHz	16GB + 32GB DDR5 4800MHz	BOE NE160WUM-N61	Samsung MZVLQ512HBLU-00BH1 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Foxlink FO50FF-836H	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
6	Intel i7-1265U 1.80GHz	32GB + 32GB DDR5 4800MHz	INX N160JCA-EEK	Samsung MZVL2512HCJQ-00BH1 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	LG Energy Solution (hp) HSTNN-LB8V	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSJ	Acbel (hp) TPN-AA07	Inventec 6050A3299901	N/A	N/A
7	Intel i7-1260P 2.10GHz	32GB + 32GB DDR5 4800MHz	INX N160JCN-EEK	Samsung MZVL21T0HCLR-00BH1 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	CosMX (hp) HSTNN-OB2J	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHLF	Lite-on (hp) TPN-LA12	Inventec 6050A3299901	N/A	N/A
8	Intel i7-1270P 2.20GHz	32GB + 32GB DDR5 4800MHz	INX N160JCG-GT1	Samsung MZVL22T0HBLB-00BH1 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSK	Lite-on (hp) TPN-LA19	Inventec 6050A3299901	N/A	N/A
9	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Kioxia KBG40ZNV256G (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Lite-on (hp) TPN-LA23	Inventec 6050A3299901	N/A	N/A
10	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO X160NV42	Kioxia KBG40ZNV512G (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Delta (hp) TPN-DA15	Inventec 6050A3299901	N/A	N/A
11	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP160WU1	Intel SSDPEKNU512GZH (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Delta (hp) TPN-DA20	Inventec 6050A3299901	N/A	N/A
12	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	CSOT MNG007JA1-1	Western Digital SDCQNRY-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Delta (hp) TPN-DA24	Inventec 6050A3299901	N/A	N/A
13	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDBPNPZ-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Honor (hp) TPN-HA01	Inventec 6050A3299901	N/A	N/A
14	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDCPNRY-256G-1006 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
15	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDCQNRY-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
16	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDBPNPZ-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
17	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDCPNRY-512G-1006 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
18	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDCPNRY-1T00-1006 (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
19	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Western Digital SDCPNRZ-2T00-1006 (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
20	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Hynix HFM256GD3JX013N (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
21	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Hynix HFM512GD3JX013N (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
22	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDHBA512QFD-1AX1AABHA (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
23	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA512TFH-1BC1AABHA (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
24	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA1T0TFH-1BC1AABHA (1TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
25	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
26	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	SSSTC CA6-8D256-HP (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
27	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	SSSTC CL4-8D256-HP (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
28	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	SSSTC CA6-8D512-HP (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
29	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	SSSTC CL4-8D512-HP (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	N/A
30	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	N/A	HP HSN-IX02
31	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211D2W	WNC XRAV-1	N/A	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	Nvidia QN20-M1-R	N/A
32	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO R160NW41	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB9Z	Intel AX211D2W	WNC XRAV-1	N/A	Chicony CKFKE3221004330LH	Chicony (hp) TPN-CA24	Inventec 6050A3299901	Nvidia QN20-M1-R	HP HSN-IX02

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1.4 The worst case of the EUT

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

Worst Case	
CE	**Mode 25, 30, 31, 32 (1920 x 1200 Resolution)**
Below 1GHz RE	**Mode 25, 30, 31, 32 (1920 x 1200 Resolution)**
Above 1GHz RE	**Mode 25, 30, 31, 32 (1920 x 1200 Resolution)**

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1.5 Description of Support Units

Mode 25:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	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	NA
SIM Card	VIBO	N/A	N/A
SC Card	N/A	N/A	N/A
Load	N/A	N/A	N/A

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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 (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	Apple	N/A	N/A
Earphone (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	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	NA
SIM Card	VIBO	N/A	N/A
SC Card	N/A	N/A	N/A
Docking	HP	HSN-IX02	N/A
USB type C to USB	HP	N/A	N/A
Load	N/A	N/A	N/A

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Mode 31:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	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
SC Card	N/A	N/A	N/A
Load	N/A	N/A	N/A

Mode 32:

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 (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	Apple	N/A	N/A
Earphone (CE, PHPF, EMS)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	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
SC Card	N/A	N/A	N/A
Docking	HP	HSN-IX02	N/A
USB type C to USB	HP	N/A	N/A
Load	N/A	N/A	N/A

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Support Equipment Used in Tested Cable

Mode 25, 31:

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
USB Cable (7)	N/A	0.6m	Shielding

Mode 30, 32:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
Type C Cable (2)	N/A	0.6m	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	0.1m	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
USB Cable (11)	N/A	0.6m	Shielding

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1.6 Operation Procedure

Mode 25:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT displays television color bar signal through “Windows Media Player” (File name ITU-R BT 1729).
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
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. Setup the condition for test mode and begin the test.

Mode 30:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT displays television color bar signal through “Windows Media Player” (File name ITU-R BT 1729).
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
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 laptop via the LAN port.
10. Setup the condition for test mode and begin the test.

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Mode 31:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT displays television color bar signal through “Windows Media Player” (File name ITU-R BT 1729).
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
6. Executed “AMCAP2” software to turn-on the Camera.
7. Setup the condition for test mode and begin the test.

Mode 32:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT displays television color bar signal through “Windows Media Player” (File name ITU-R BT 1729).
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
6. Executed “AMCAP2” software to turn-on the Camera.
7. The EUT transfers data to another laptop via the LAN port.
8. Setup the condition for test mode and begin the test.

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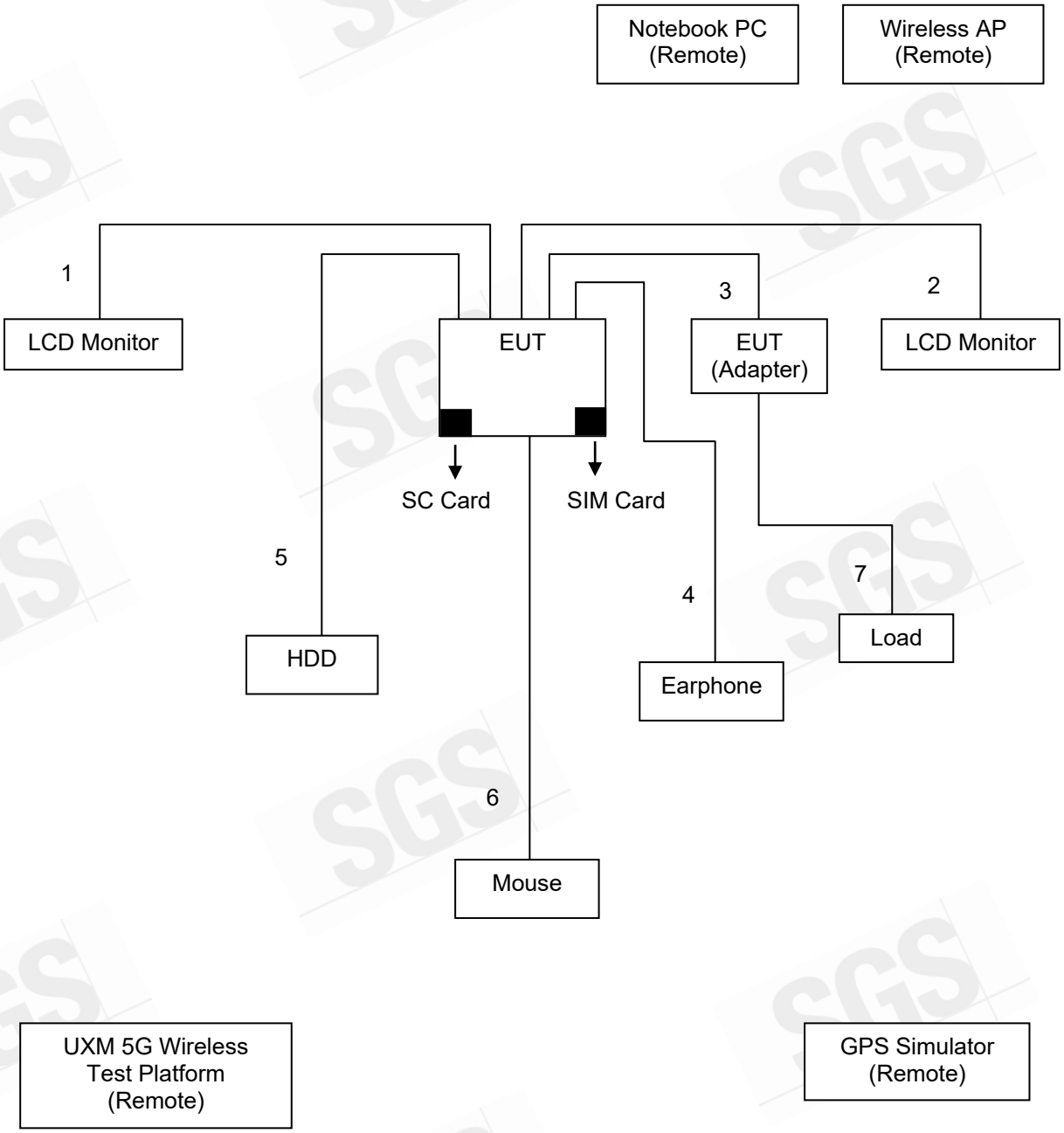
1.7 Test Set-Up Configuration

Mode 25:



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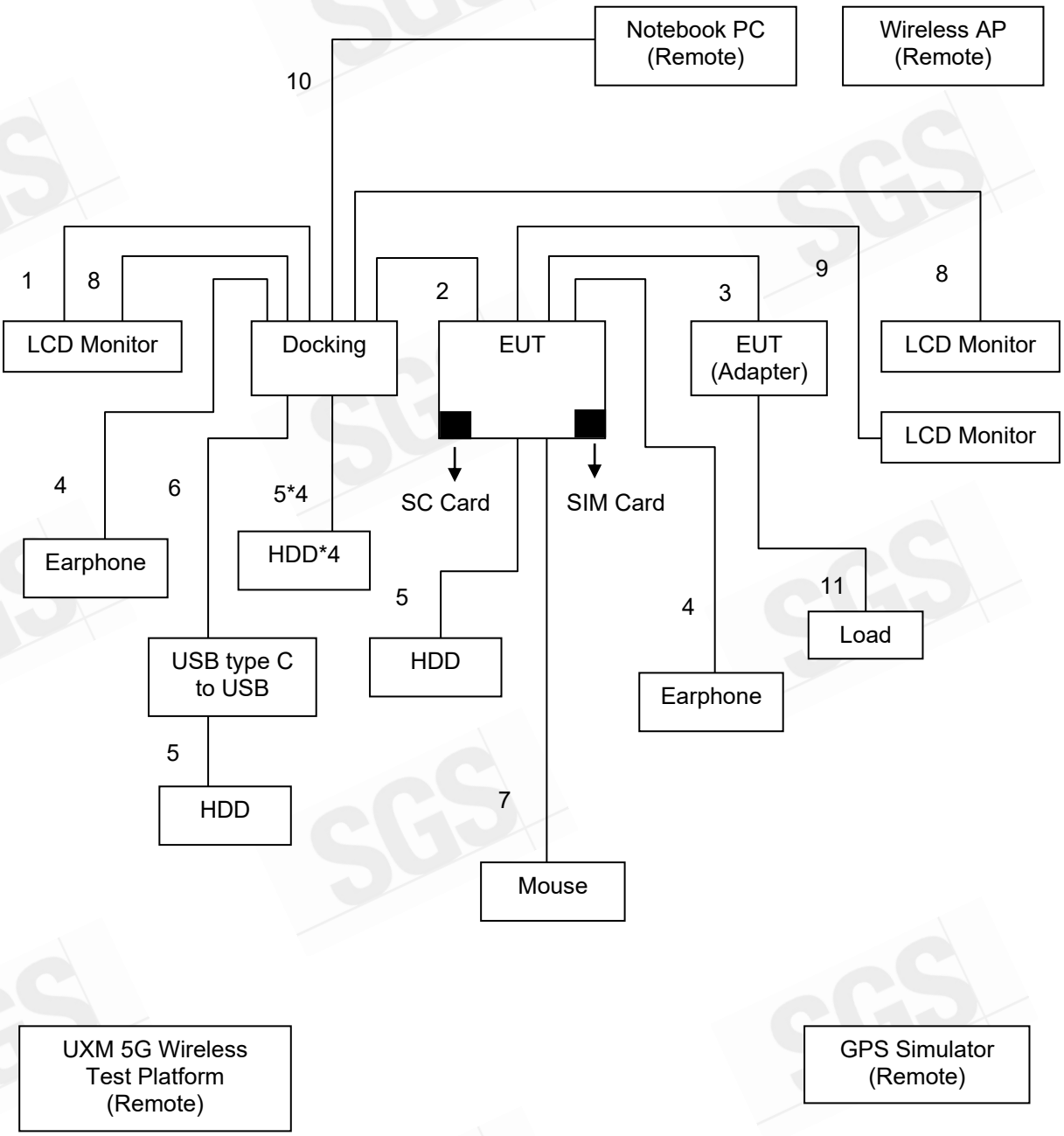
Mode 30:



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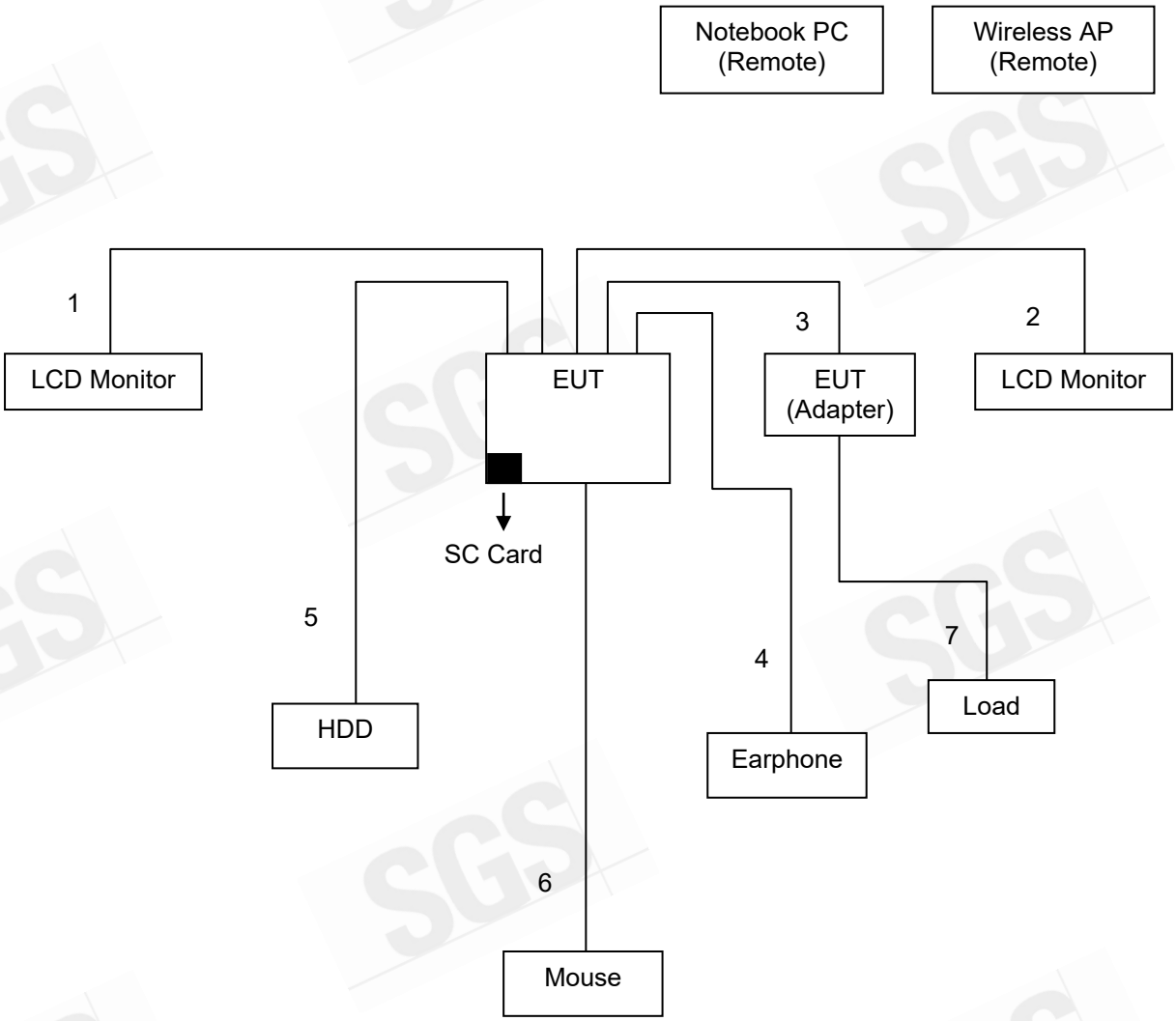
Mode 31:



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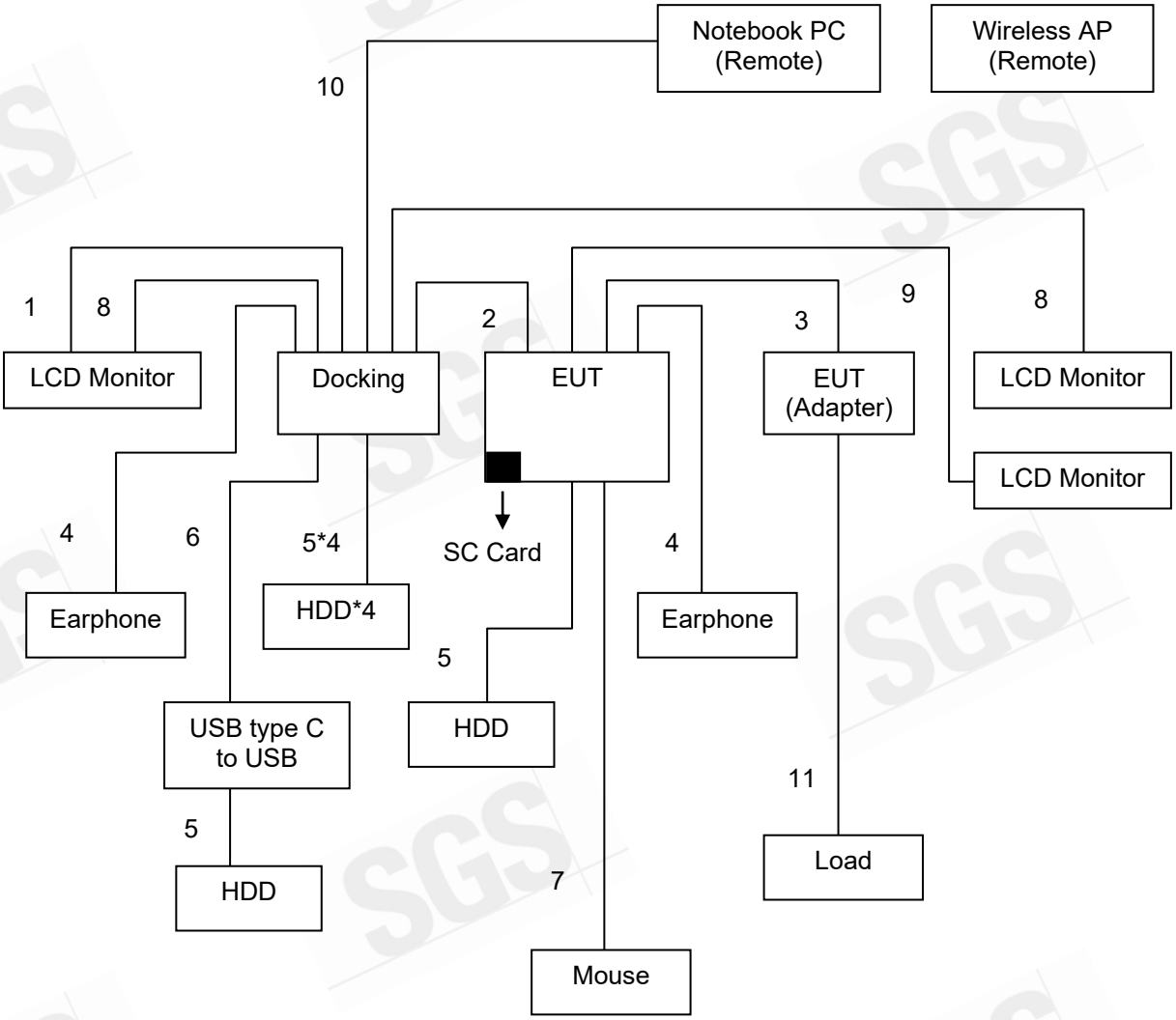
Mode 32:



1.8 Accessories Cable List

See clause 1.3 of this report

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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 5thharmonic 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 dBμV 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 Ulab (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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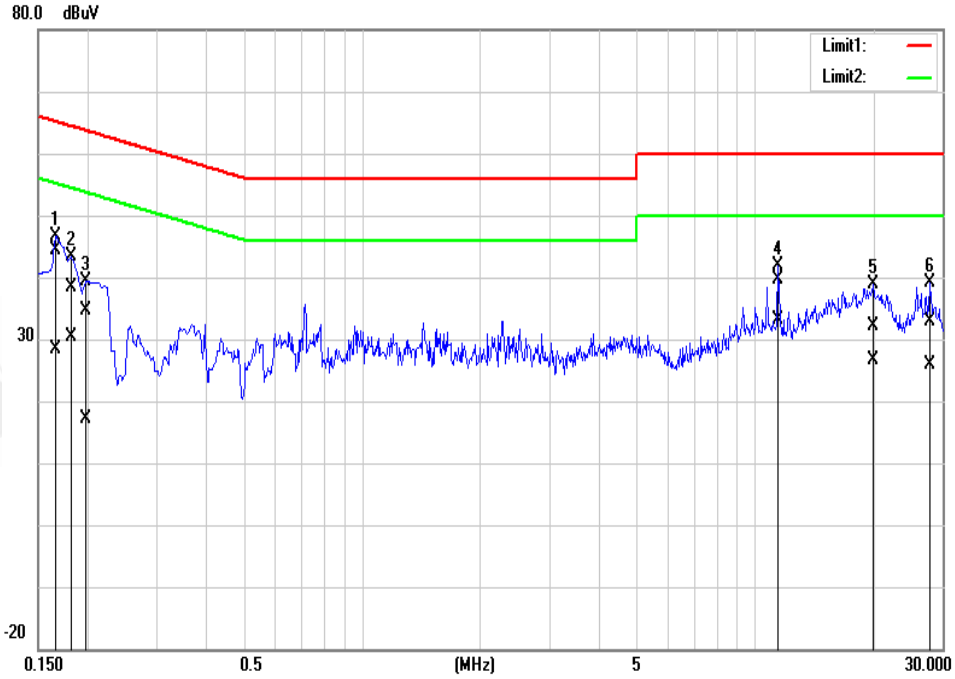
2.4.3 Measurement Data:

Model no.	HSN-I45C-6	**Line:**	L1
Environmental Conditions	24℃, 50% RH	**Tested Date**	2021/08/17
Test Mode	Mode 25	**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	0.1660	44.14	28.30	0.12	44.26	28.42	65.15	55.16	-20.89	-26.74	Pass
2	0.1819	38.28	30.12	0.14	38.42	30.26	64.39	54.40	-25.97	-24.14	Pass
3	0.1980	34.57	17.06	0.14	34.71	17.20	63.69	53.69	-28.98	-36.49	Pass
4*	11.4900	39.11	32.68	0.44	39.55	33.12	60.00	50.00	-20.45	-16.88	Pass
5	19.9540	31.59	25.90	0.61	32.20	26.51	60.00	50.00	-27.80	-23.49	Pass
6	27.9780	32.16	25.07	0.77	32.93	25.84	60.00	50.00	-27.07	-24.16	Pass

Note: L1 = Live Line

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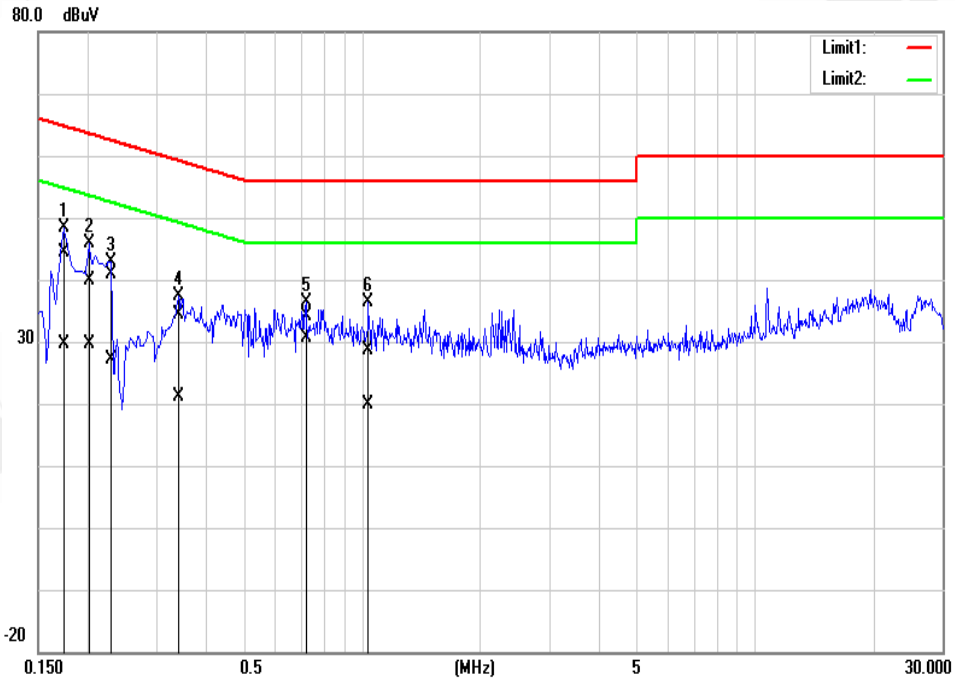
Model no.	HSN-I45C-6	**Line:**	N
Environmental Conditions	24℃, 50% RH	**Tested Date**	2021/08/17
Test Mode	Mode 25	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	0.1740	44.15	29.40	0.14	44.29	29.54	64.76	54.77	-20.47	-25.23	Pass
2	0.2020	39.84	29.37	0.15	39.99	29.52	63.52	53.53	-23.53	-24.01	Pass
3	0.2300	40.78	27.06	0.15	40.93	27.21	62.45	52.45	-21.52	-25.24	Pass
4	0.3420	34.23	20.89	0.17	34.40	21.06	59.15	49.15	-24.75	-28.09	Pass
5*	0.7220	34.00	30.54	0.19	34.19	30.73	56.00	46.00	-21.81	-15.27	Pass
6	1.0420	28.55	19.69	0.19	28.74	19.88	56.00	46.00	-27.26	-26.12	Pass

Note: N = Neutral Line

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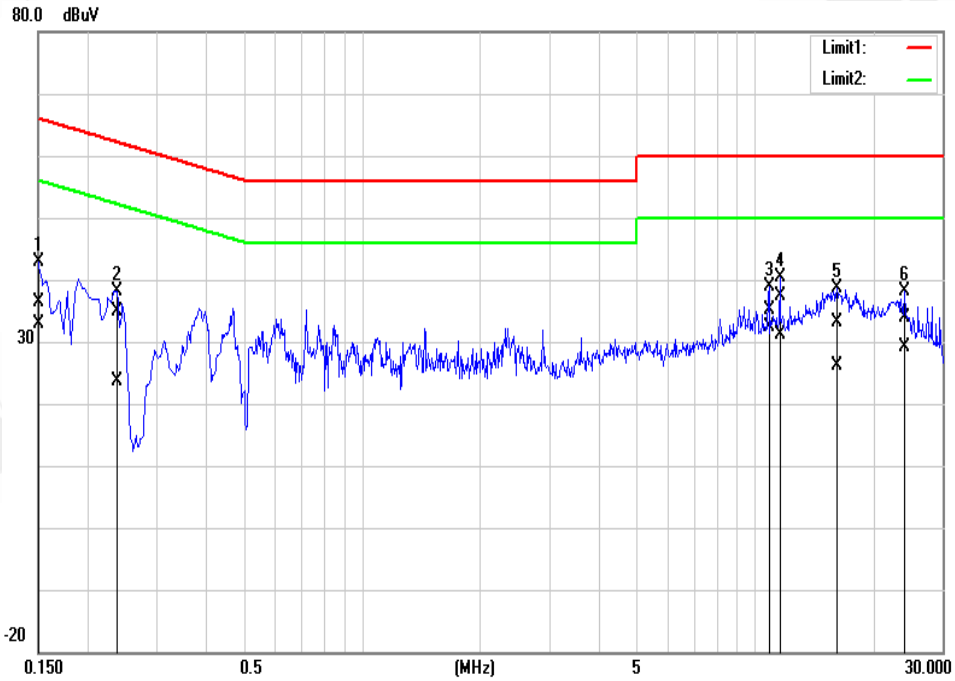
Model no.	HSN-I45C-6	**Line:**	L1
Environmental Conditions	23℃, 46% RH	**Tested Date**	2021/08/18
Test Mode	Mode 30	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	0.1500	36.37	32.88	0.12	36.49	33.00	65.99	56.00	-29.50	-23.00	Pass
2	0.2380	34.84	23.49	0.14	34.98	23.63	62.16	52.17	-27.18	-28.54	Pass
3*	10.8500	34.70	31.85	0.43	35.13	32.28	60.00	50.00	-24.87	-17.72	Pass
4	11.5659	36.88	30.70	0.44	37.32	31.14	60.00	50.00	-22.68	-18.86	Pass
5	16.1980	32.63	25.63	0.53	33.16	26.16	60.00	50.00	-26.84	-23.84	Pass
6	24.0620	33.07	28.37	0.69	33.76	29.06	60.00	50.00	-26.24	-20.94	Pass

Note: L1 = Live Line

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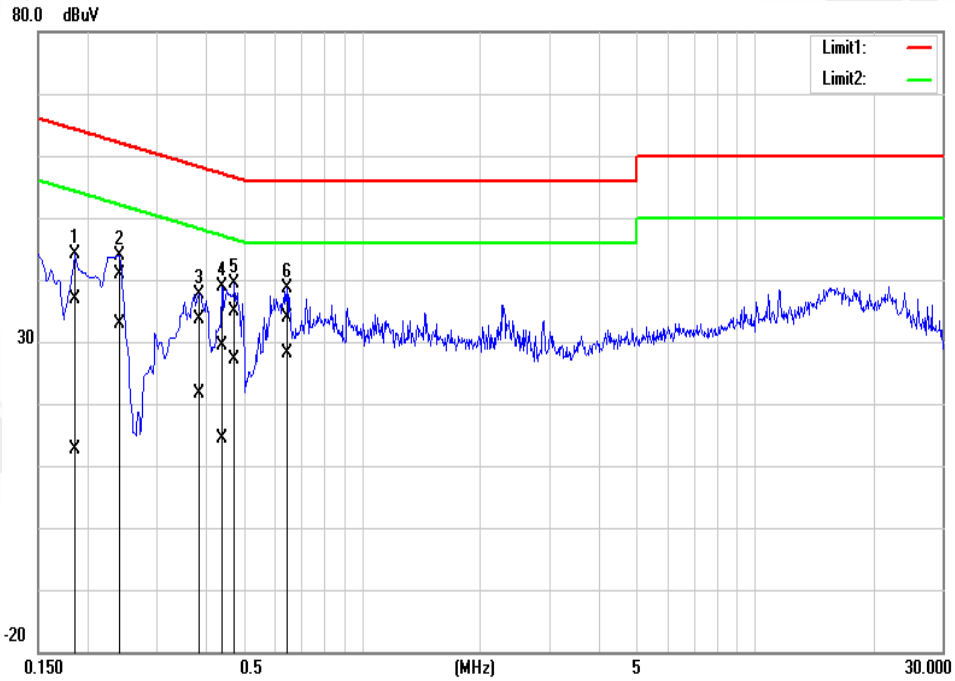
Model no.	HSN-I45C-6	Line:	N
Environmental Conditions	23℃, 46% RH	Tested Date	2021/08/18
Test Mode	Mode 30	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	0.1860	36.80	12.58	0.15	36.95	12.73	64.21	54.21	-27.26	-41.48	Pass
2	0.2420	40.72	32.72	0.15	40.87	32.87	62.02	52.03	-21.15	-19.16	Pass
3	0.3860	33.38	21.47	0.17	33.55	21.64	58.15	48.15	-24.60	-26.51	Pass
4	0.4420	29.13	14.31	0.17	29.30	14.48	57.02	47.02	-27.72	-32.54	Pass
5	0.4740	34.61	27.07	0.17	34.78	27.24	56.44	46.44	-21.66	-19.20	Pass
6*	0.6460	33.79	27.90	0.17	33.96	28.07	56.00	46.00	-22.04	-17.93	Pass

Note: N = Neutral Line

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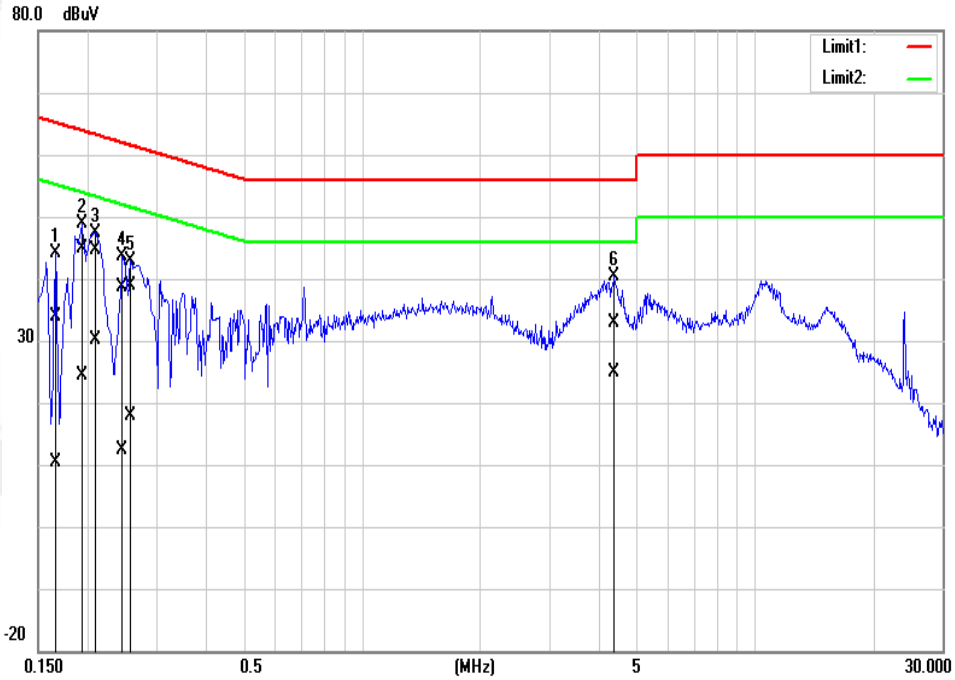
Model no.	HSN-I45C-6	Line:	L1
Environmental Conditions	22℃, 48% RH	Tested Date	2021/08/20
Test Mode	Mode 31	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	0.1660	33.70	10.15	0.12	33.82	10.27	65.15	55.16	-31.33	-44.89	Pass
2	0.1940	44.69	24.22	0.14	44.83	24.36	63.86	53.86	-19.03	-29.50	Pass
3*	0.2100	44.44	29.92	0.14	44.58	30.06	63.20	53.21	-18.62	-23.15	Pass
4	0.2460	38.39	12.26	0.14	38.53	12.40	61.89	51.89	-23.36	-39.49	Pass
5	0.2580	38.62	17.67	0.14	38.76	17.81	61.49	51.50	-22.73	-33.69	Pass
6	4.3940	32.65	24.51	0.29	32.94	24.80	56.00	46.00	-23.06	-21.20	Pass

Note: L1 = Live Line

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Model no.	HSN-I45C-6	Line:	N
Environmental Conditions	22℃, 48% RH	Tested Date	2021/08/20
Test Mode	Mode 31	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	0.1580	35.43	10.06	0.14	35.57	10.20	65.56	55.57	-29.99	-45.37	Pass
2	0.1860	44.25	22.85	0.15	44.40	23.00	64.21	54.21	-19.81	-31.21	Pass
3	0.2500	40.00	20.03	0.15	40.15	20.18	61.75	51.76	-21.60	-31.58	Pass
4	0.3500	37.80	27.32	0.17	37.97	27.49	58.96	48.96	-20.99	-21.47	Pass
5*	0.7140	38.78	33.53	0.19	38.97	33.72	56.00	46.00	-17.03	-12.28	Pass
6	4.2819	35.11	27.31	0.30	35.41	27.61	56.00	46.00	-20.59	-18.39	Pass

Note: N = Neutral Line

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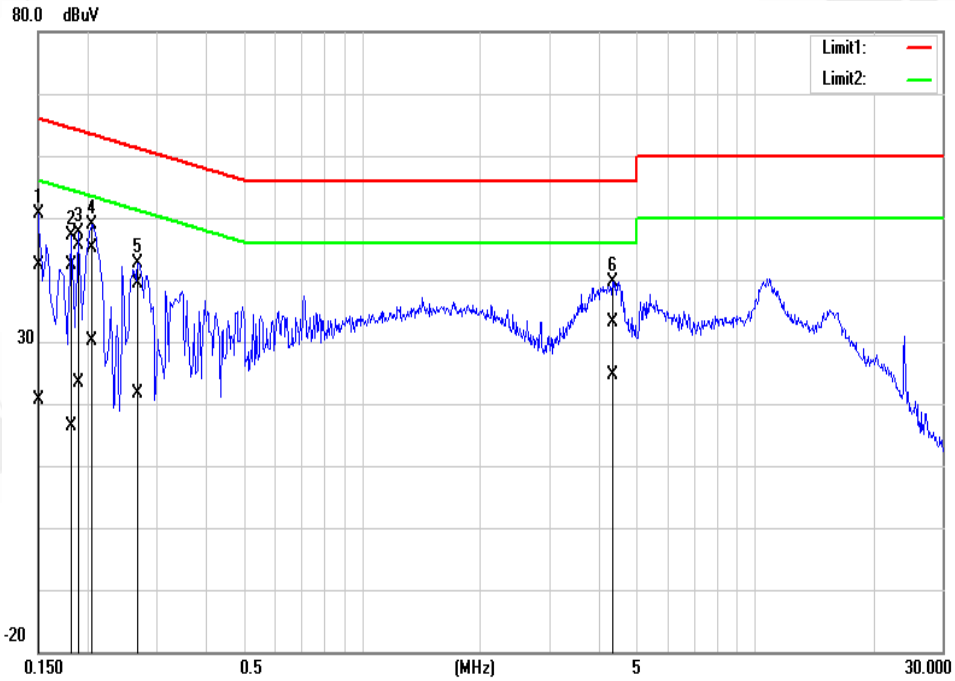
Model no.	HSN-I45C-6	**Line:**	L1
Environmental Conditions	23℃, 47% RH	**Tested Date**	2021/08/22
Test Mode	Mode 32	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	0.1500	42.14	20.62	0.12	42.26	20.74	65.99	56.00	-23.73	-35.26	Pass
2	0.1819	42.17	16.18	0.14	42.31	16.32	64.39	54.40	-22.08	-38.08	Pass
3	0.1900	45.47	23.18	0.14	45.61	23.32	64.03	54.04	-18.42	-30.72	Pass
4*	0.2060	44.89	29.90	0.14	45.03	30.04	63.36	53.37	-18.33	-23.33	Pass
5	0.2700	39.30	21.57	0.14	39.44	21.71	61.12	51.12	-21.68	-29.41	Pass
6	4.3460	32.78	24.31	0.29	33.07	24.60	56.00	46.00	-22.93	-21.40	Pass

Note: L1 = Live Line

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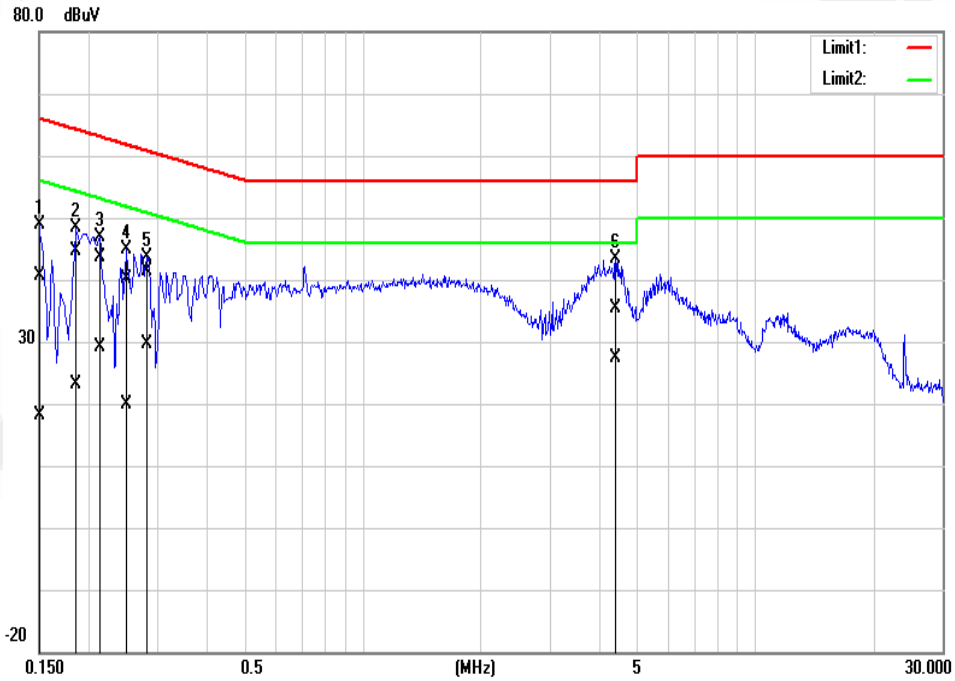
Model no.	HSN-I45C-6	Line:	N
Environmental Conditions	23℃, 47% RH	Tested Date	2021/08/22
Test Mode	Mode 32	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	0.1500	40.58	18.09	0.14	40.72	18.23	65.99	56.00	-25.27	-37.77	Pass
2	0.1860	44.48	22.87	0.15	44.63	23.02	64.21	54.21	-19.58	-31.19	Pass
3	0.2140	43.52	28.90	0.15	43.67	29.05	63.04	53.05	-19.37	-24.00	Pass
4	0.2500	39.97	19.82	0.15	40.12	19.97	61.75	51.76	-21.63	-31.79	Pass
5	0.2819	41.31	29.59	0.15	41.46	29.74	60.76	50.76	-19.30	-21.02	Pass
6*	4.4140	34.96	27.05	0.30	35.26	27.35	56.00	46.00	-20.74	-18.65	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	09/08/2021	09/07/2022
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 Ulab (k=2) of Radiated Emission measurement is 4.94 dB. (1-6GHz)
Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 5.24 dB. (6-18GHz)
Expanded uncertainty Ulab (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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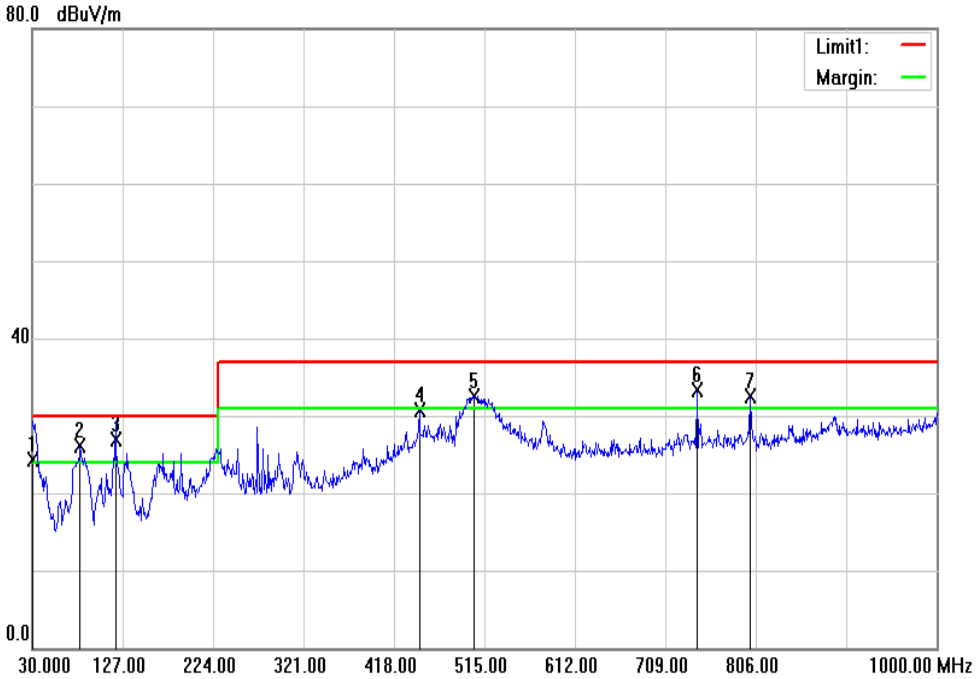
2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-I45C-6	**Test Mode**	Mode 25
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/27
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	30.9700	27.19	-2.93	24.26	30.00	-5.74	100	207	QP
2	81.4100	39.09	-13.05	26.04	30.00	-3.96	199	221	QP
3	119.2400	34.87	-7.90	26.97	30.00	-3.03	100	201	QP
4	445.1600	31.93	-1.20	30.73	37.00	-6.27	399	359	QP
5	503.3600	32.91	-0.40	32.51	37.00	-4.49	299	1	QP
6	742.9500	30.42	2.90	33.32	37.00	-3.68	199	34	QP
7	800.1800	28.71	3.71	32.42	37.00	-4.58	199	360	QP

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

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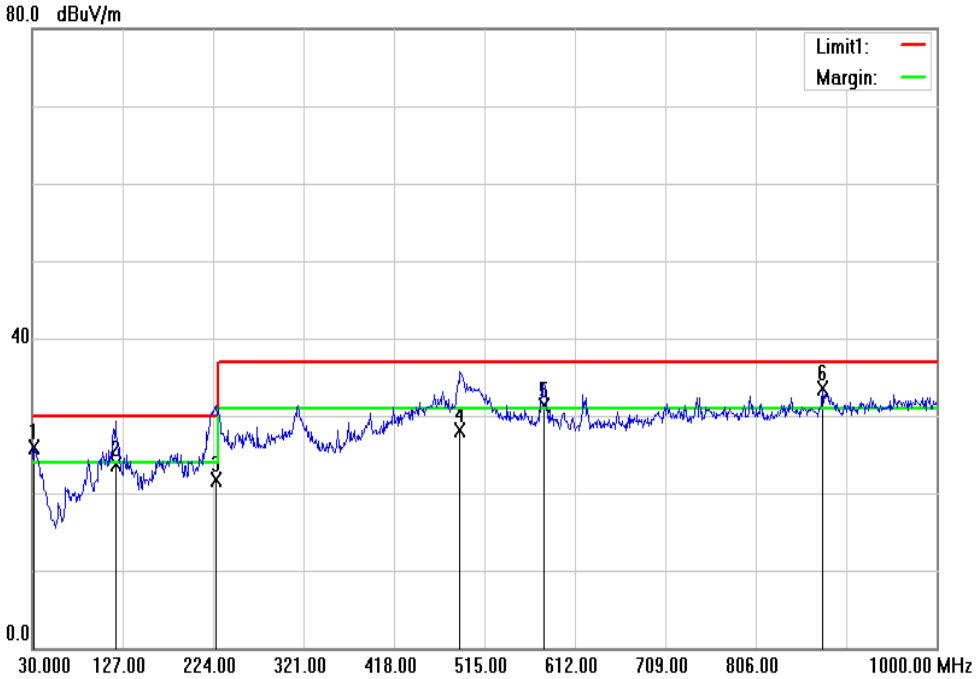
Model no.	HSN-I45C-6	**Test Mode**	Mode 25
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/27
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	31.9400	30.35	-4.37	25.98	30.00	-4.02	399	360	QP
2	119.2400	32.54	-8.93	23.61	30.00	-6.39	400	178	QP
3	226.9100	31.82	-10.14	21.68	30.00	-8.32	400	178	QP
4	488.8100	30.89	-2.80	28.09	37.00	-8.91	112	360	QP
5	579.0200	32.23	-0.94	31.29	37.00	-5.71	100	360	QP
6	877.7800	30.95	2.49	33.44	37.00	-3.56	299	0	QP

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

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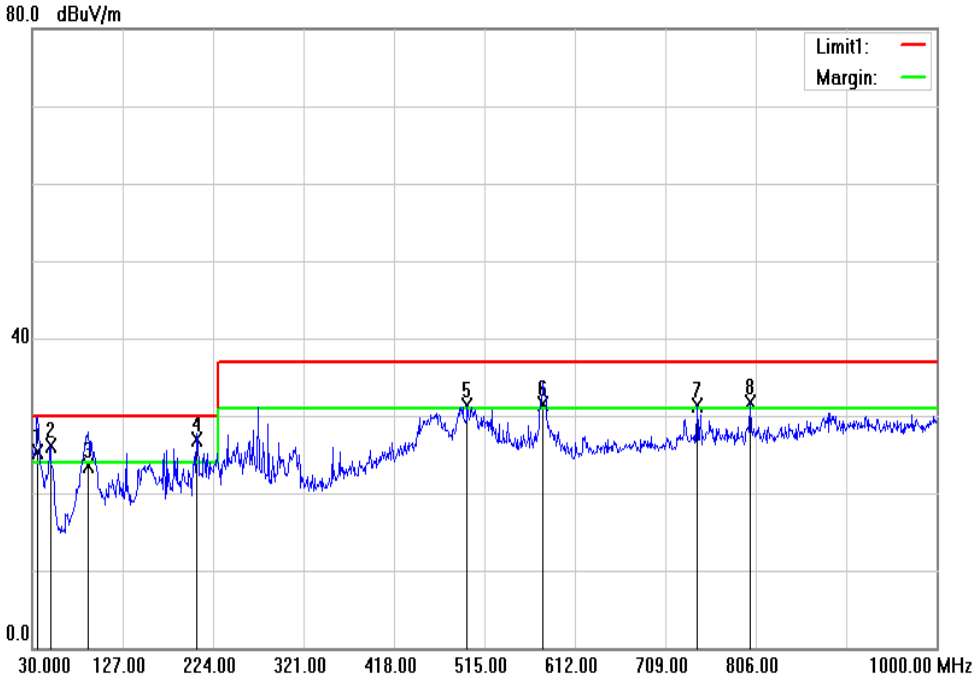
Model no.	HSN-I45C-6	**Test Mode**	Mode 30
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	35.8200	30.97	-5.65	25.32	30.00	-4.68	100	236	QP
2	49.4000	38.76	-12.56	26.20	30.00	-3.80	100	281	QP
3	90.1400	34.76	-11.21	23.55	30.00	-6.45	299	53	QP
4	206.5400	36.13	-9.32	26.81	30.00	-3.19	102	0	QP
5	496.5700	31.69	-0.48	31.21	37.00	-5.79	299	359	QP
6	578.0500	30.47	1.12	31.59	37.00	-5.41	299	359	QP
7	742.9500	28.36	2.90	31.26	37.00	-5.74	200	328	QP
8	800.1800	27.96	3.71	31.67	37.00	-5.33	200	360	QP

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

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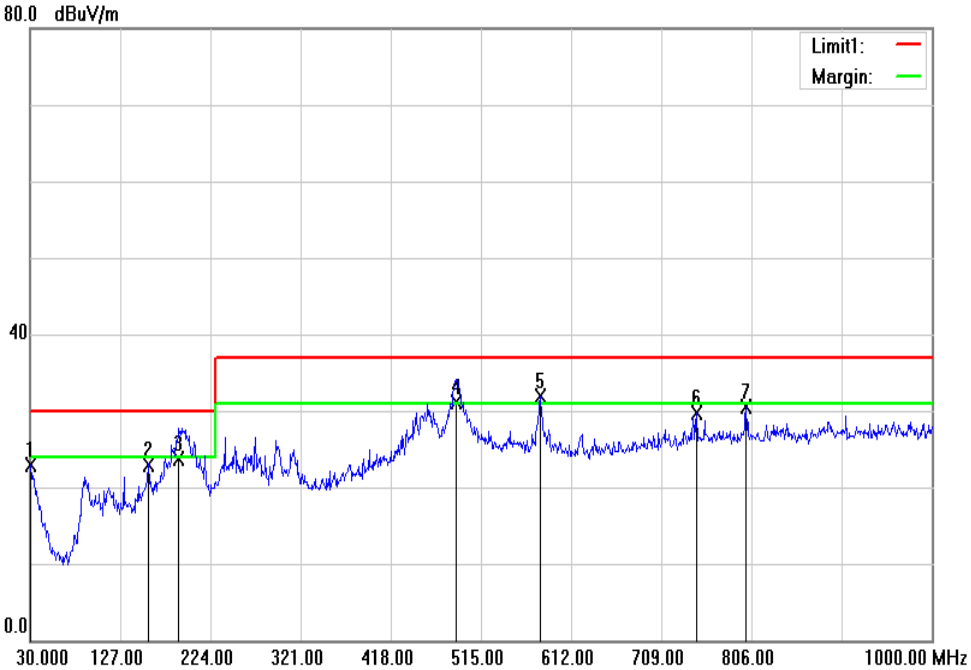
Model no.	HSN-I45C-6	**Test Mode**	Mode 30
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	25.99	-3.16	22.83	30.00	-7.17	300	289	QP
2	157.0700	33.50	-10.50	23.00	30.00	-7.00	400	247	QP
3	190.0500	35.18	-11.41	23.77	30.00	-6.23	300	5	QP
4	487.8400	33.78	-2.77	31.01	37.00	-5.99	118	0	QP
5	579.0200	32.91	-0.94	31.97	37.00	-5.03	399	0	QP
6	746.8300	28.81	0.86	29.67	37.00	-7.33	298	360	QP
7	800.1800	28.96	1.55	30.51	37.00	-6.49	265	360	QP

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

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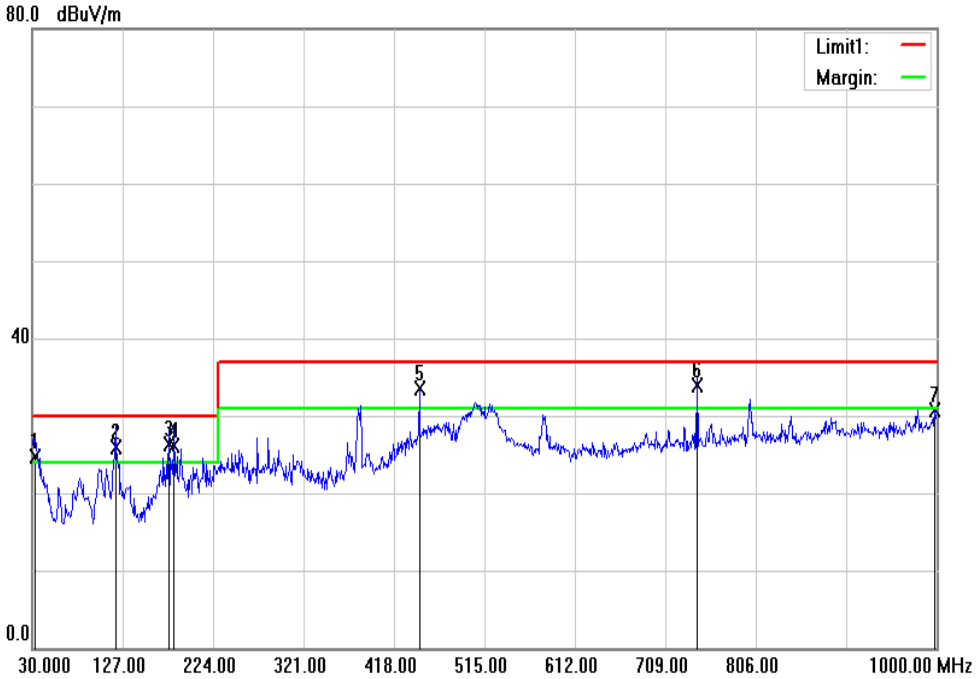
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.9100	28.64	-3.85	24.79	30.00	-5.21	100	222	QP
2	119.2400	33.86	-7.90	25.96	30.00	-4.04	100	206	QP
3	176.4700	36.01	-9.74	26.27	30.00	-3.73	200	151	QP
4	182.2900	36.16	-9.96	26.20	30.00	-3.80	100	0	QP
5	445.1600	34.63	-1.20	33.43	37.00	-3.57	399	359	QP
6	742.9500	31.06	2.90	33.96	37.00	-3.04	200	292	QP
7	998.0600	24.28	6.47	30.75	37.00	-6.25	300	312	QP

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

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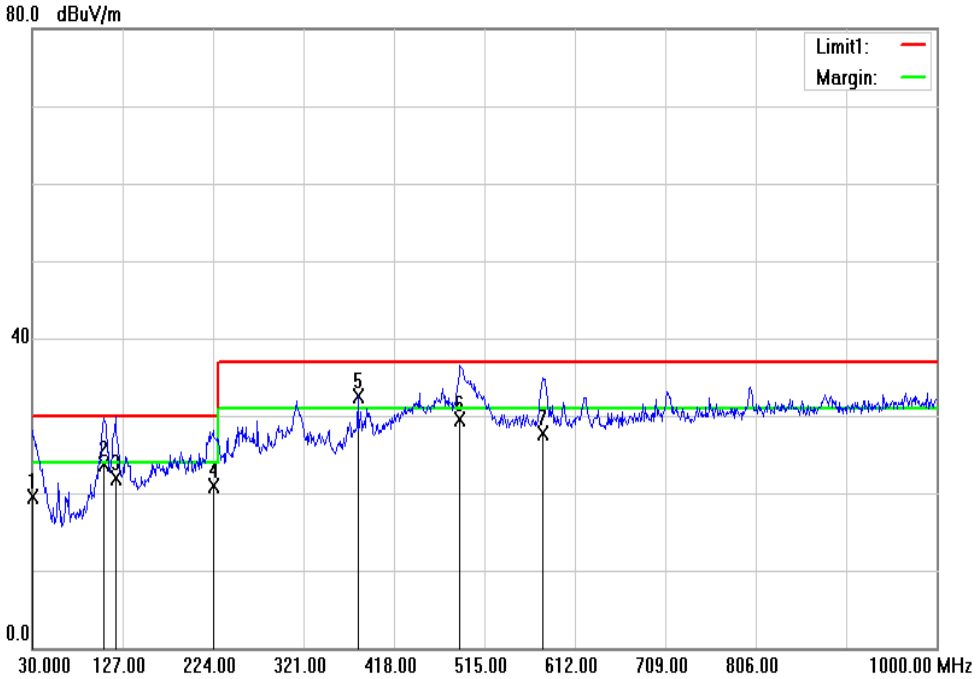
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	22.70	-3.16	19.54	30.00	-10.46	399	0	QP
2	106.6300	33.28	-9.52	23.76	30.00	-6.24	399	264	QP
3	119.2400	30.88	-8.93	21.95	30.00	-8.05	399	145	QP
4	224.0000	31.33	-10.45	20.88	30.00	-9.12	399	177	QP
5	379.2000	36.99	-4.48	32.51	37.00	-4.49	200	98	QP
6	488.8100	32.26	-2.80	29.46	37.00	-7.54	200	20	QP
7	577.0800	28.68	-0.95	27.73	37.00	-9.27	100	0	QP

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

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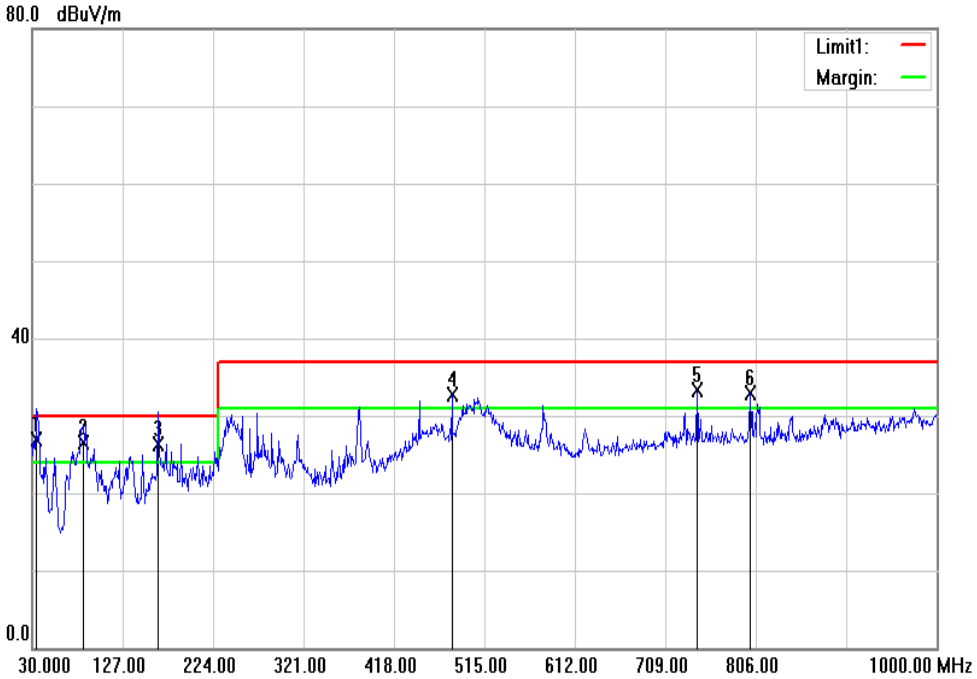
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	31.73	-4.80	26.93	30.00	-3.07	100	205	QP
2	85.2900	38.78	-12.37	26.41	30.00	-3.59	100	61	QP
3	164.8300	35.61	-9.29	26.32	30.00	-3.68	101	360	QP
4	480.0800	33.38	-0.60	32.78	37.00	-4.22	100	360	QP
5	742.9500	30.39	2.90	33.29	37.00	-3.71	199	292	QP
6	800.1800	29.11	3.71	32.82	37.00	-4.18	199	344	QP

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

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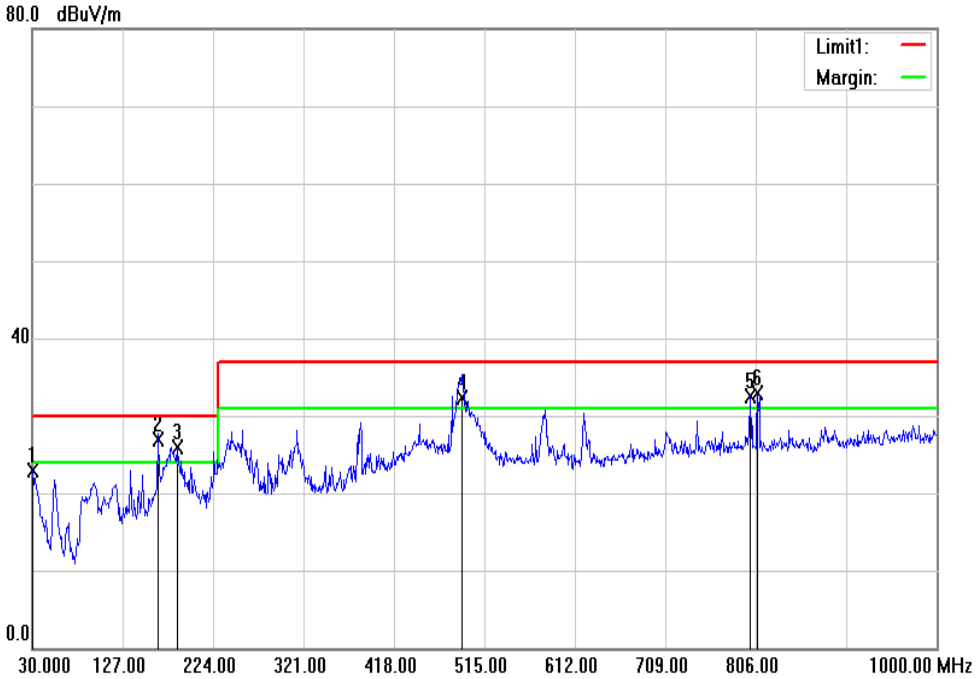
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.49	-3.54	22.95	30.00	-7.05	200	72	QP
2	164.8300	37.72	-10.78	26.94	30.00	-3.06	300	70	QP
3	185.2000	37.47	-11.48	25.99	30.00	-4.01	299	0	QP
4	490.7500	35.19	-2.82	32.37	37.00	-4.63	199	360	QP
5	800.1800	31.04	1.55	32.59	37.00	-4.41	300	53	QP
6	807.9400	31.49	1.49	32.98	37.00	-4.02	100	16	QP

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

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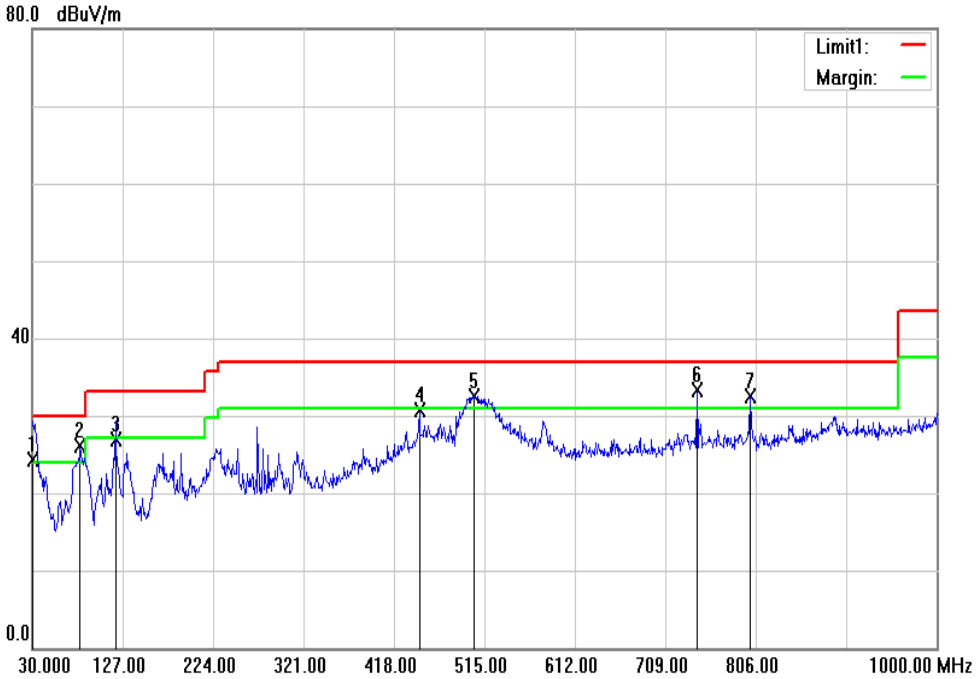
Model no.	HSN-I45C-6	Test Mode	Mode 25
Environmental Conditions	24℃, 53% RH	Tested Date	2021/10/27
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	27.19	-2.93	24.26	30.00	-5.74	100	207	QP
2	81.4100	39.09	-13.05	26.04	30.00	-3.96	199	221	QP
3	119.2400	34.87	-7.90	26.97	33.10	-6.13	100	201	QP
4	445.1600	31.93	-1.20	30.73	37.00	-6.27	399	359	QP
5	503.3600	32.91	-0.40	32.51	37.00	-4.49	299	1	QP
6	742.9500	30.42	2.90	33.32	37.00	-3.68	199	34	QP
7	800.1800	28.71	3.71	32.42	37.00	-4.58	199	360	QP

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

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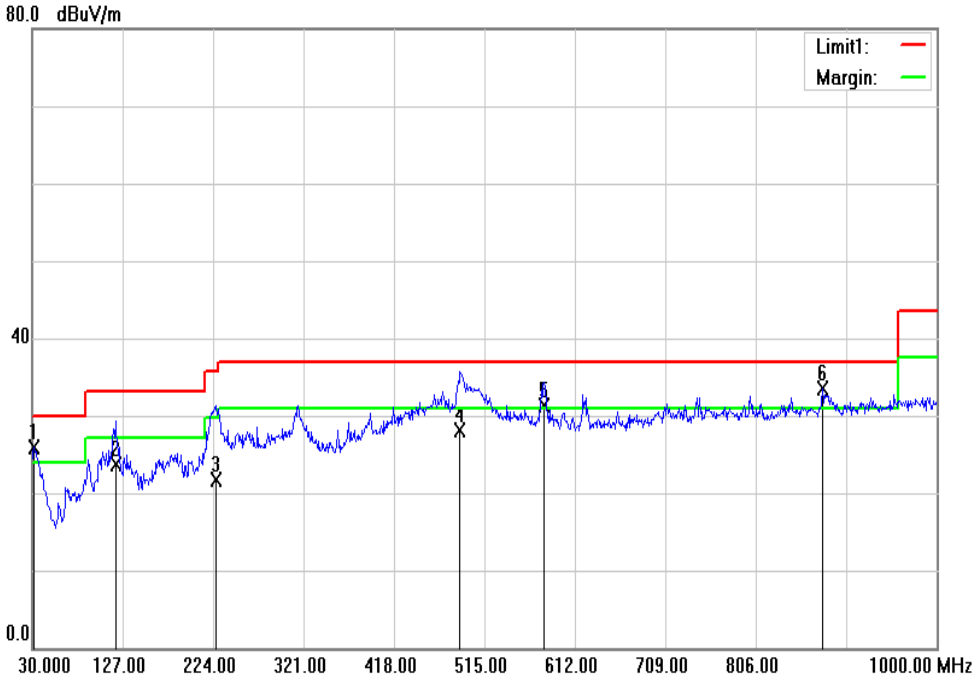
Model no.	HSN-I45C-6	**Test Mode**	Mode 25
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/27
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	31.9400	30.35	-4.37	25.98	30.00	-4.02	399	360	QP
2	119.2400	32.54	-8.93	23.61	33.10	-9.49	400	178	QP
3	226.9100	31.82	-10.14	21.68	35.60	-13.92	400	178	QP
4	488.8100	30.89	-2.80	28.09	37.00	-8.91	112	360	QP
5	579.0200	32.23	-0.94	31.29	37.00	-5.71	100	360	QP
6	877.7800	30.95	2.49	33.44	37.00	-3.56	299	0	QP

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

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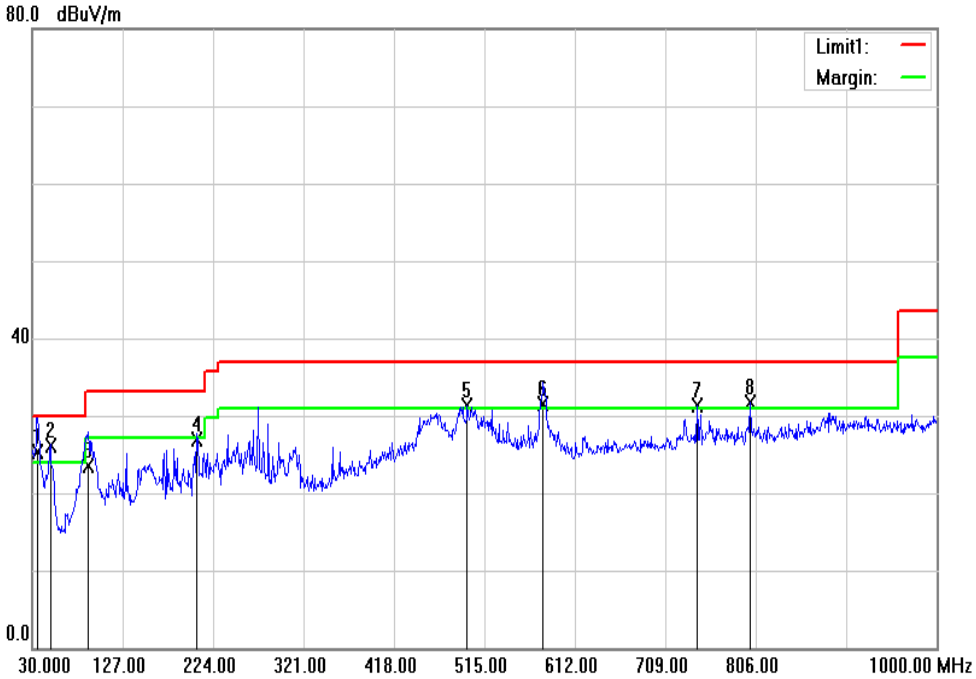
Model no.	HSN-I45C-6	Test Mode	Mode 30
Environmental Conditions	24℃, 53% RH	Tested Date	2021/10/28
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	35.8200	30.97	-5.65	25.32	30.00	-4.68	100	236	QP
2	49.4000	38.76	-12.56	26.20	30.00	-3.80	100	281	QP
3	90.1400	34.76	-11.21	23.55	33.10	-9.55	299	53	QP
4	206.5400	36.13	-9.32	26.81	33.10	-6.29	102	0	QP
5	496.5700	31.69	-0.48	31.21	37.00	-5.79	299	359	QP
6	578.0500	30.47	1.12	31.59	37.00	-5.41	299	359	QP
7	742.9500	28.36	2.90	31.26	37.00	-5.74	200	328	QP
8	800.1800	27.96	3.71	31.67	37.00	-5.33	200	360	QP

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

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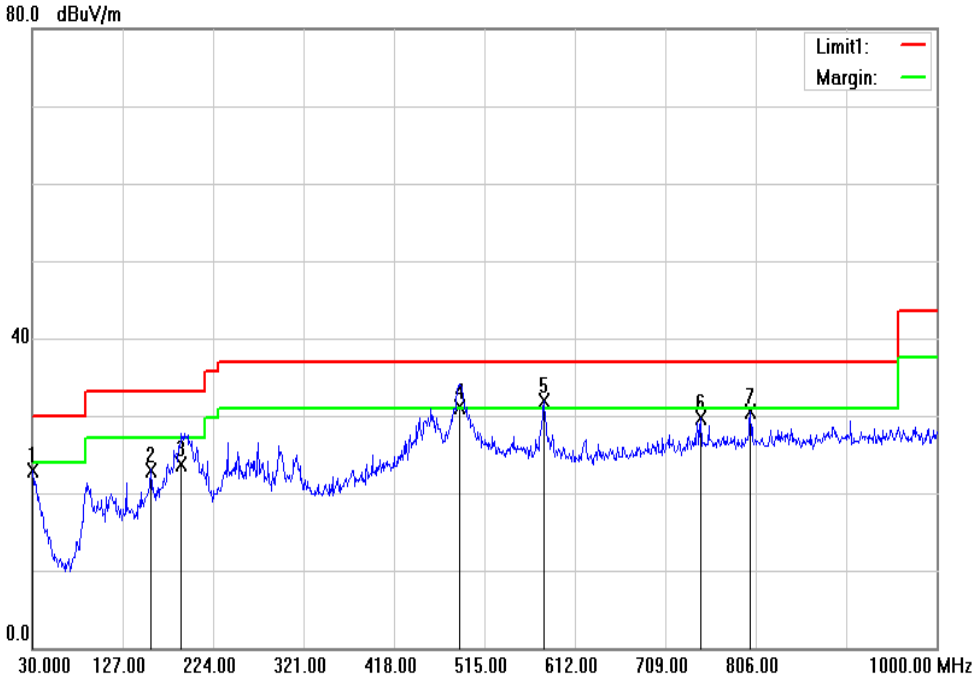
Model no.	HSN-I45C-6	**Test Mode**	Mode 30
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	25.99	-3.16	22.83	30.00	-7.17	300	289	QP
2	157.0700	33.50	-10.50	23.00	33.10	-10.10	400	247	QP
3	190.0500	35.18	-11.41	23.77	33.10	-9.33	300	5	QP
4	487.8400	33.78	-2.77	31.01	37.00	-5.99	118	0	QP
5	579.0200	32.91	-0.94	31.97	37.00	-5.03	399	0	QP
6	746.8300	28.81	0.86	29.67	37.00	-7.33	298	360	QP
7	800.1800	28.96	1.55	30.51	37.00	-6.49	265	360	QP

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

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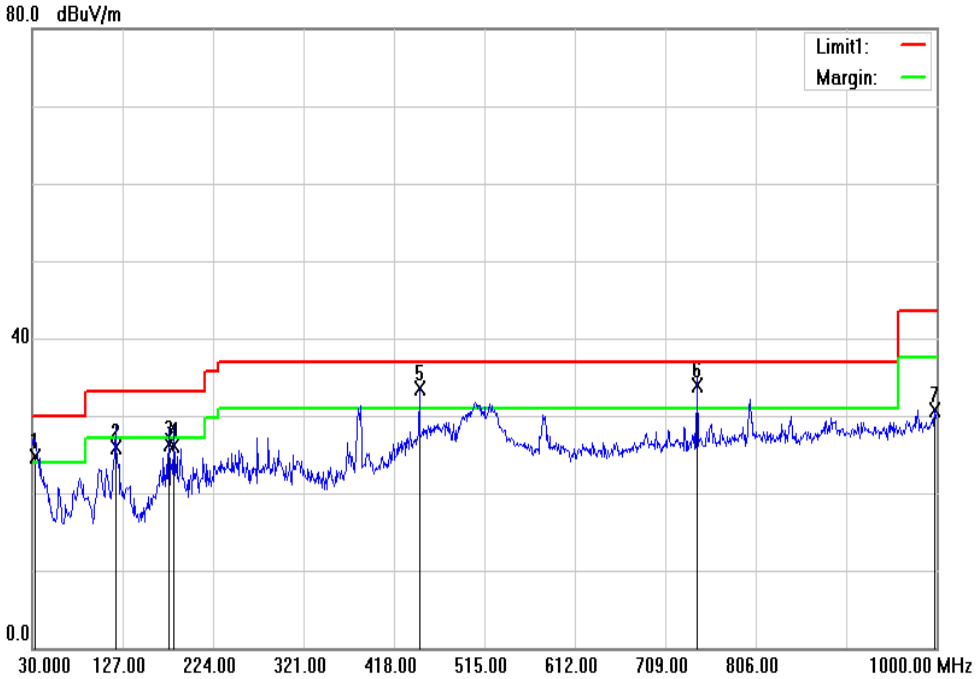
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.9100	28.64	-3.85	24.79	30.00	-5.21	100	222	QP
2	119.2400	33.86	-7.90	25.96	33.10	-7.14	100	206	QP
3	176.4700	36.01	-9.74	26.27	33.10	-6.83	200	151	QP
4	182.2900	36.16	-9.96	26.20	33.10	-6.90	100	0	QP
5	445.1600	34.63	-1.20	33.43	37.00	-3.57	399	359	QP
6	742.9500	31.06	2.90	33.96	37.00	-3.04	200	292	QP
7	998.0600	24.28	6.47	30.75	43.50	-12.75	300	312	QP

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

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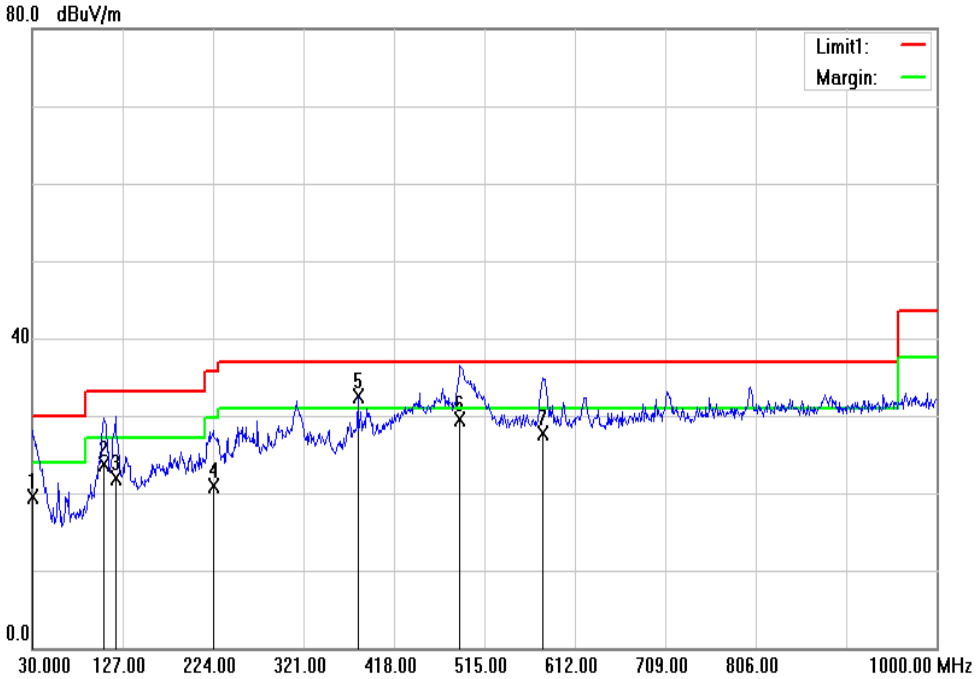
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	22.70	-3.16	19.54	30.00	-10.46	399	0	QP
2	106.6300	33.28	-9.52	23.76	33.10	-9.34	399	264	QP
3	119.2400	30.88	-8.93	21.95	33.10	-11.15	399	145	QP
4	224.0000	31.33	-10.45	20.88	35.60	-14.72	399	177	QP
5	379.2000	36.99	-4.48	32.51	37.00	-4.49	200	98	QP
6	488.8100	32.26	-2.80	29.46	37.00	-7.54	200	20	QP
7	577.0800	28.68	-0.95	27.73	37.00	-9.27	100	0	QP

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

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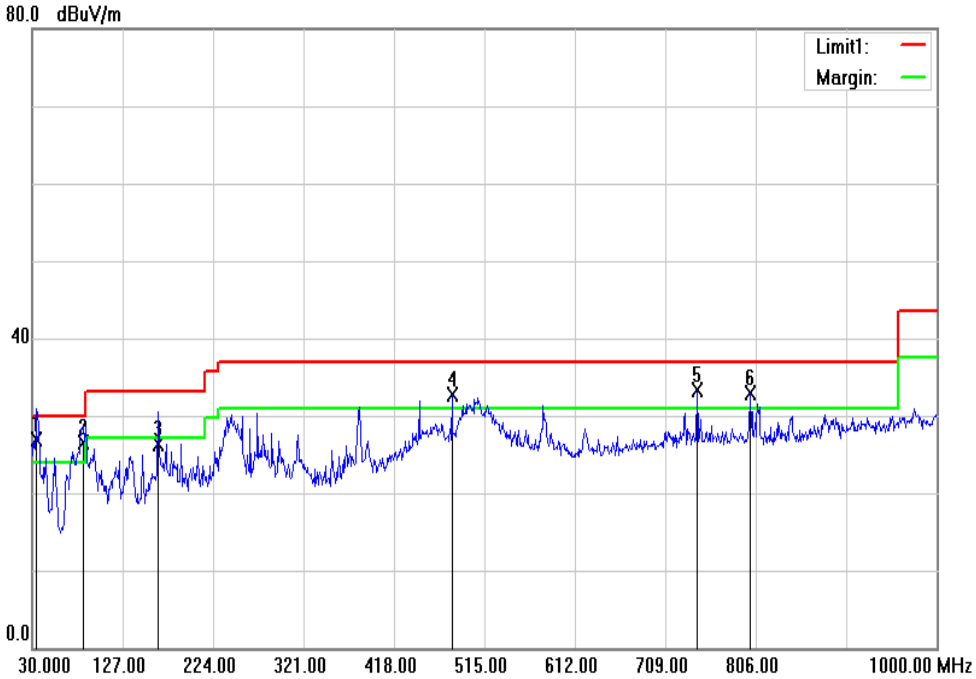
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	31.73	-4.80	26.93	30.00	-3.07	100	205	QP
2	85.2900	38.78	-12.37	26.41	30.00	-3.59	100	61	QP
3	164.8300	35.61	-9.29	26.32	33.10	-6.78	101	360	QP
4	480.0800	33.38	-0.60	32.78	37.00	-4.22	100	360	QP
5	742.9500	30.39	2.90	33.29	37.00	-3.71	199	292	QP
6	800.1800	29.11	3.71	32.82	37.00	-4.18	199	344	QP

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

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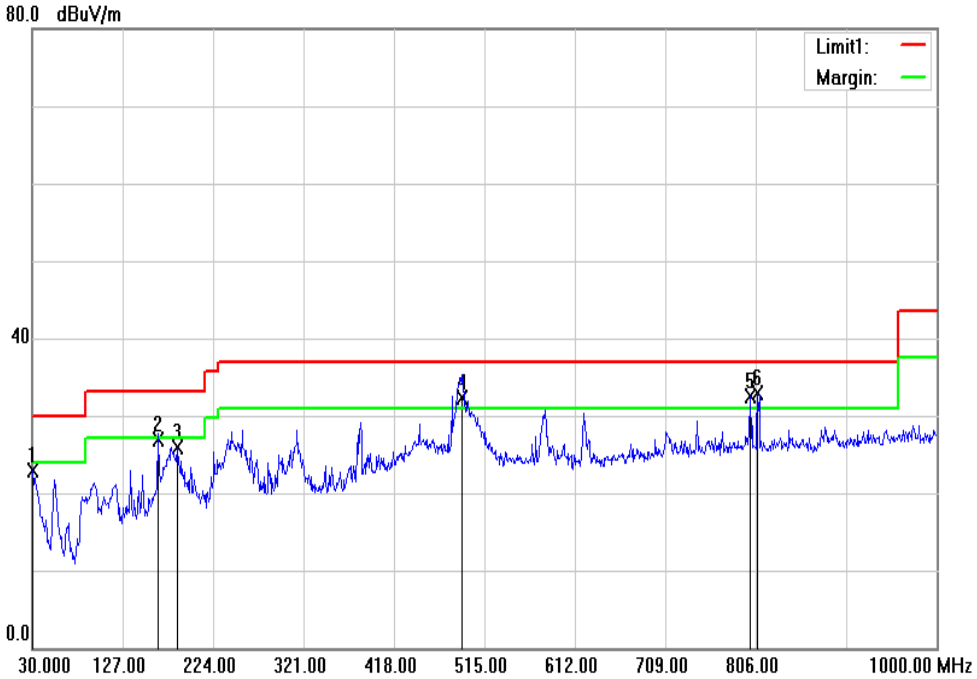
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.49	-3.54	22.95	30.00	-7.05	200	72	QP
2	164.8300	37.72	-10.78	26.94	33.10	-6.16	300	70	QP
3	185.2000	37.47	-11.48	25.99	33.10	-7.11	299	0	QP
4	490.7500	35.19	-2.82	32.37	37.00	-4.63	199	360	QP
5	800.1800	31.04	1.55	32.59	37.00	-4.41	300	53	QP
6	807.9400	31.49	1.49	32.98	37.00	-4.02	100	16	QP

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

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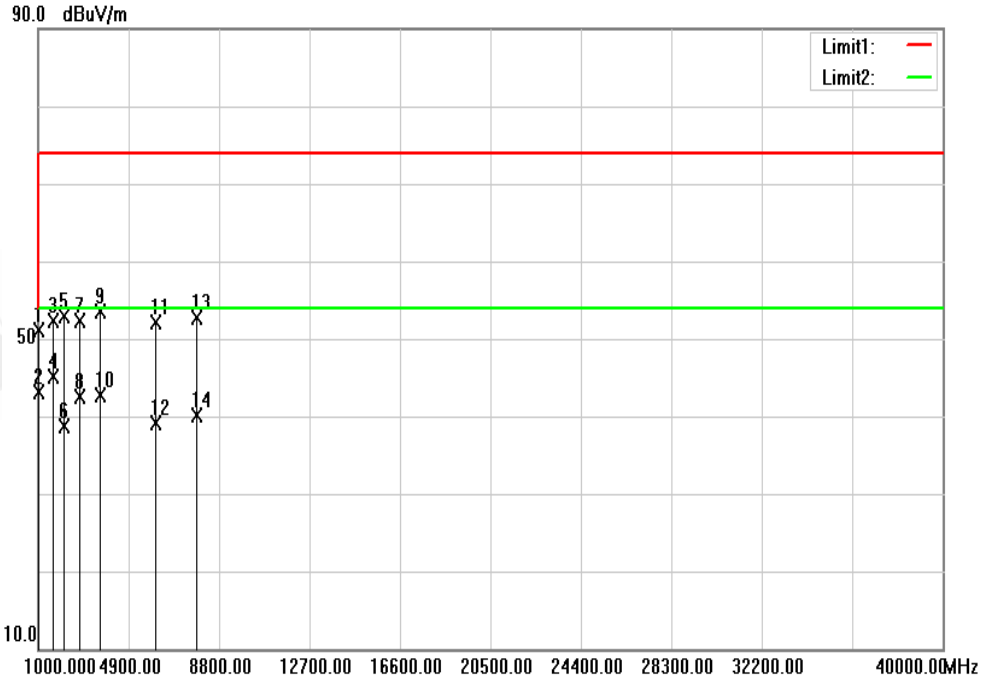
Above 1GHz

Model no.	HSN-I45C-6	**Test Mode**	Mode 25
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
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	1017.000	69.57	-18.48	51.09	74.00	-22.91	100	259	peak
2	1017.000	61.49	-18.48	43.01	54.00	-10.99	100	259	AVG
3	1603.500	69.49	-17.28	52.21	74.00	-21.79	100	220	peak
4	1603.500	62.46	-17.28	45.18	54.00	-8.82	100	220	AVG
5	2088.000	65.77	-12.90	52.87	74.00	-21.13	200	249	peak
6	2088.000	51.55	-12.90	38.65	54.00	-15.35	200	249	AVG
7	2759.500	65.00	-12.63	52.37	74.00	-21.63	100	299	peak
8	2759.500	55.05	-12.63	42.42	54.00	-11.58	100	299	AVG
9	3643.500	64.64	-11.04	53.60	74.00	-20.40	200	257	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	3643.500	53.73	-11.04	42.69	54.00	-11.31	200	257	AVG
11	6032.000	56.06	-3.95	52.11	74.00	-21.89	200	209	peak
12	6032.000	43.13	-3.95	39.18	54.00	-14.82	200	209	AVG
13	7808.500	55.44	-2.79	52.65	74.00	-21.35	100	275	peak
14	7808.500	42.96	-2.79	40.17	54.00	-13.83	100	275	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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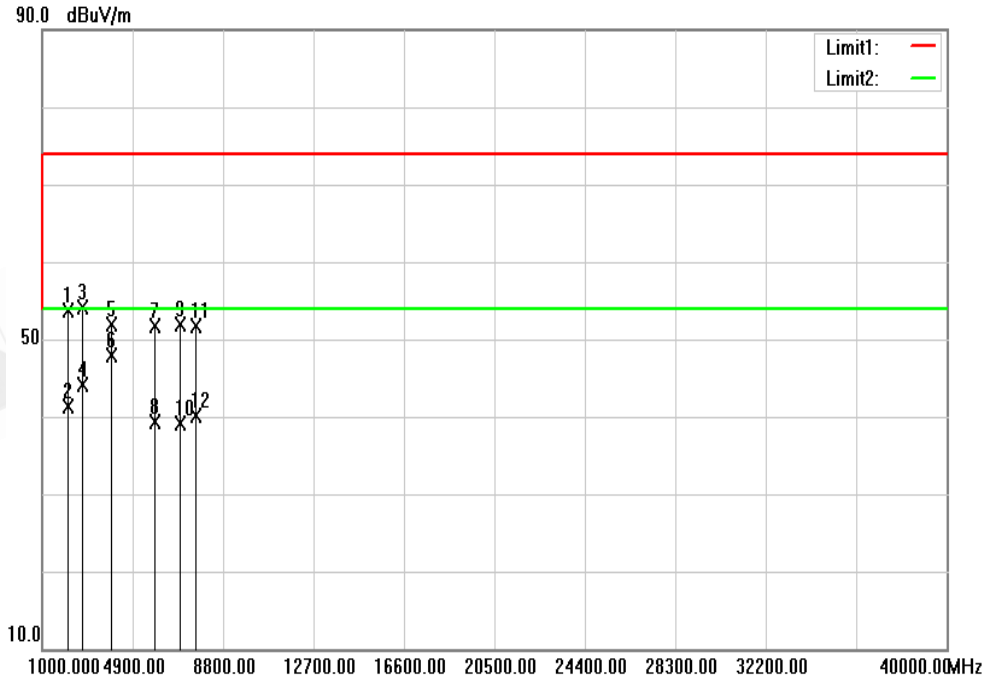
Model no.	HSN-I45C-6	**Test Mode**	Mode 25
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/27
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	2088.000	66.69	-12.90	53.79	74.00	-20.21	200	193	peak
2	2088.000	54.12	-12.90	41.22	54.00	-12.78	200	193	AVG
3	2751.000	66.72	-12.68	54.04	74.00	-19.96	100	189	peak
4	2751.000	56.84	-12.68	44.16	54.00	-9.84	100	189	AVG
5	4000.500	62.67	-10.84	51.83	74.00	-22.17	100	173	peak
6	4000.500	58.67	-10.84	47.83	54.00	-6.17	100	173	AVG
7	5862.000	56.52	-4.75	51.77	74.00	-22.23	278	360	peak
8	5862.000	44.09	-4.75	39.34	54.00	-14.66	278	360	AVG
9	6950.000	55.17	-3.18	51.99	74.00	-22.01	100	244	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	6950.000	42.35	-3.18	39.17	54.00	-14.83	100	244	AVG
11	7613.000	54.51	-2.86	51.65	74.00	-22.35	300	360	peak
12	7613.000	42.95	-2.86	40.09	54.00	-13.91	300	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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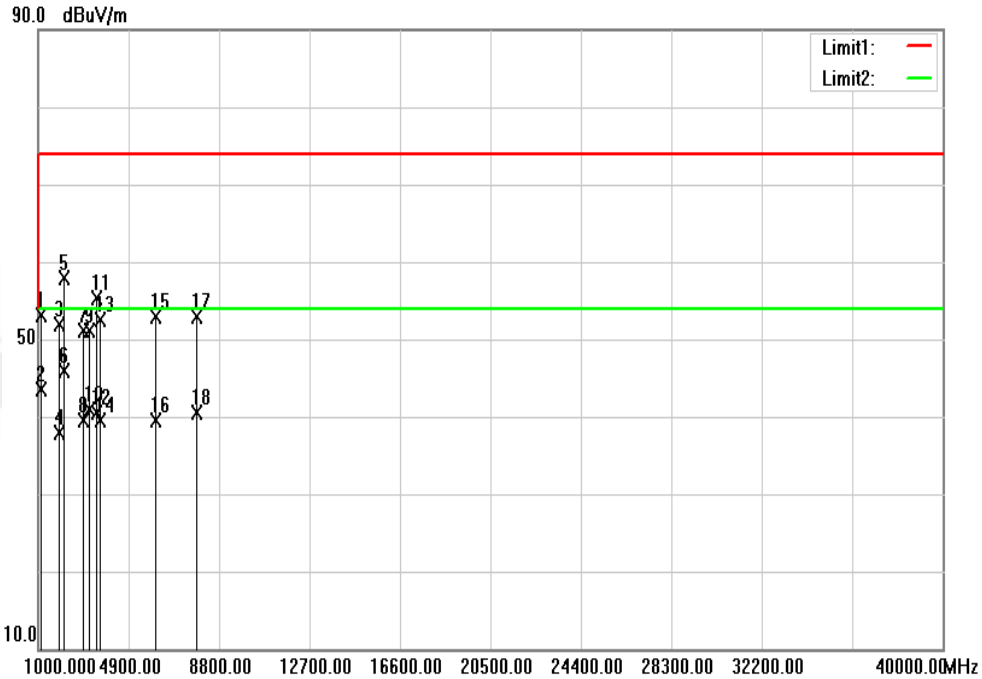
Model no.	HSN-I45C-6	**Test Mode**	Mode 30
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	71.56	-18.37	53.19	74.00	-20.81	100	237	peak
2	1110.500	61.84	-18.37	43.47	54.00	-10.53	100	237	AVG
3	1867.000	66.99	-15.08	51.91	74.00	-22.09	100	277	peak
4	1867.000	52.96	-15.08	37.88	54.00	-16.12	100	277	AVG
5	2088.000	70.71	-12.90	57.81	74.00	-16.19	200	227	peak
6	2088.000	58.84	-12.90	45.94	54.00	-8.06	200	227	AVG
7	2929.500	63.32	-12.19	51.13	74.00	-22.87	300	204	peak
8	2929.500	51.78	-12.19	39.59	54.00	-14.41	300	204	AVG
9	3201.500	62.60	-11.54	51.06	74.00	-22.94	100	237	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	3201.500	52.45	-11.54	40.91	54.00	-13.09	100	237	AVG
11	3465.000	67.10	-11.72	55.38	74.00	-18.62	100	221	peak
12	3465.000	52.27	-11.72	40.55	54.00	-13.45	100	221	AVG
13	3643.500	63.57	-11.04	52.53	74.00	-21.47	200	258	peak
14	3643.500	50.48	-11.04	39.44	54.00	-14.56	200	258	AVG
15	6040.500	56.93	-4.06	52.87	74.00	-21.13	200	29	peak
16	6040.500	43.59	-4.06	39.53	54.00	-14.47	200	29	AVG
17	7808.500	55.62	-2.79	52.83	74.00	-21.17	200	0	peak
18	7808.500	43.28	-2.79	40.49	54.00	-13.51	200	0	AVG

REMARKS:

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

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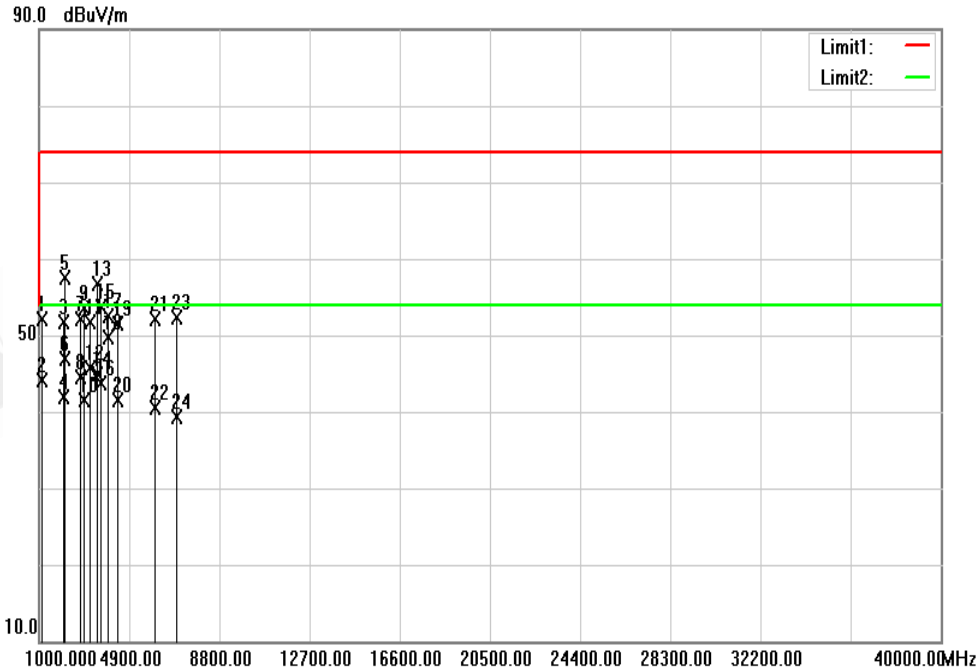
Model no.	HSN-I45C-6	**Test Mode**	Mode 30
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	70.57	-18.37	52.20	74.00	-21.80	200	266	peak
2	1110.500	62.55	-18.37	44.18	54.00	-9.82	200	266	AVG
3	2045.500	64.82	-13.17	51.65	74.00	-22.35	200	187	peak
4	2045.500	55.14	-13.17	41.97	54.00	-12.03	200	187	AVG
5	2088.000	70.34	-12.90	57.44	74.00	-16.56	200	195	peak
6	2088.000	59.79	-12.90	46.89	54.00	-7.11	200	195	AVG
7	2759.500	64.77	-12.63	52.14	74.00	-21.86	200	187	peak
8	2759.500	57.14	-12.63	44.51	54.00	-9.49	200	187	AVG
9	2929.500	65.68	-12.19	53.49	74.00	-20.51	200	210	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	2929.500	53.78	-12.19	41.59	54.00	-12.41	200	210	AVG
11	3201.500	63.19	-11.54	51.65	74.00	-22.35	100	173	peak
12	3201.500	57.32	-11.54	45.78	54.00	-8.22	100	173	AVG
13	3465.000	68.35	-11.72	56.63	74.00	-17.37	200	195	peak
14	3465.000	56.63	-11.72	44.91	54.00	-9.09	200	195	AVG
15	3643.500	64.77	-11.04	53.73	74.00	-20.27	200	179	peak
16	3643.500	54.82	-11.04	43.78	54.00	-10.22	200	179	AVG
17	4000.500	63.25	-10.84	52.41	74.00	-21.59	100	166	peak
18	4000.500	60.55	-10.84	49.71	54.00	-4.29	100	166	AVG
19	4357.500	60.93	-9.34	51.59	74.00	-22.41	100	181	peak
20	4357.500	50.93	-9.34	41.59	54.00	-12.41	100	181	AVG
21	6006.500	55.78	-3.69	52.09	74.00	-21.91	184	0	peak
22	6006.500	44.17	-3.69	40.48	54.00	-13.52	184	0	AVG
23	6933.000	55.55	-3.24	52.31	74.00	-21.69	255	360	peak
24	6933.000	42.46	-3.24	39.22	54.00	-14.78	255	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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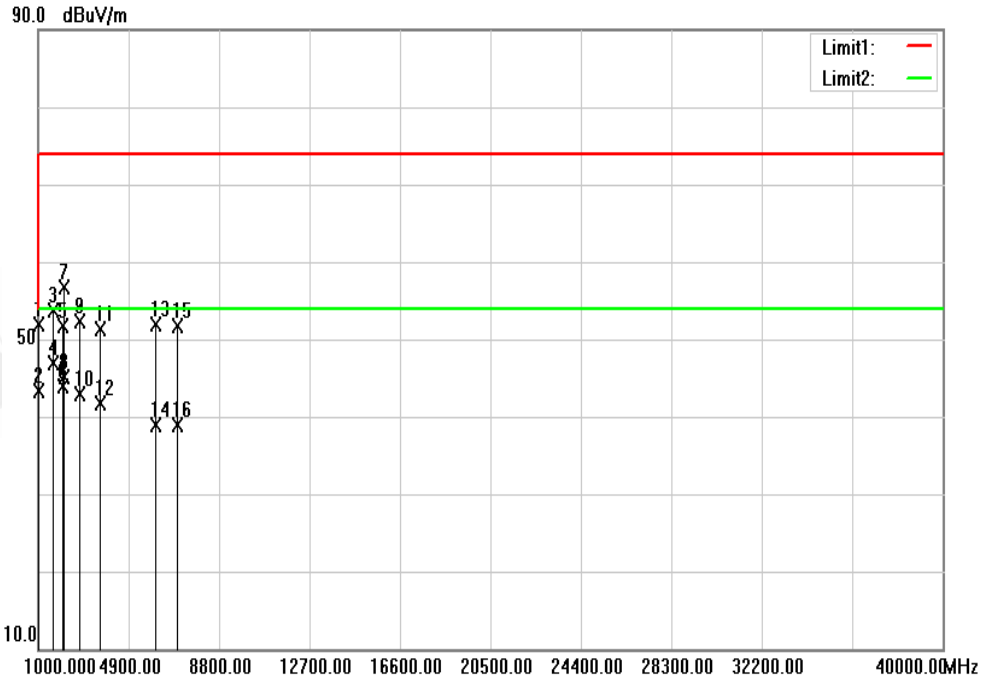
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	1025.500	70.32	-18.45	51.87	74.00	-22.13	100	274	peak
2	1025.500	61.68	-18.45	43.23	54.00	-10.77	100	274	AVG
3	1603.500	71.04	-17.28	53.76	74.00	-20.24	100	243	peak
4	1603.500	64.25	-17.28	46.97	54.00	-7.03	100	243	AVG
5	2045.500	64.82	-13.17	51.65	74.00	-22.35	100	313	peak
6	2045.500	57.05	-13.17	43.88	54.00	-10.12	100	313	AVG
7	2088.000	69.51	-12.90	56.61	74.00	-17.39	100	266	peak
8	2088.000	58.07	-12.90	45.17	54.00	-8.83	100	266	AVG
9	2759.500	65.00	-12.63	52.37	74.00	-21.63	100	266	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	2759.500	55.54	-12.63	42.91	54.00	-11.09	100	266	AVG
11	3643.500	62.27	-11.04	51.23	74.00	-22.77	200	260	peak
12	3643.500	52.78	-11.04	41.74	54.00	-12.26	200	260	AVG
13	6032.000	55.87	-3.95	51.92	74.00	-22.08	202	0	peak
14	6032.000	42.94	-3.95	38.99	54.00	-15.01	202	0	AVG
15	6975.500	54.85	-3.09	51.76	74.00	-22.24	206	0	peak
16	6975.500	42.09	-3.09	39.00	54.00	-15.00	206	0	AVG

REMARKS:

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

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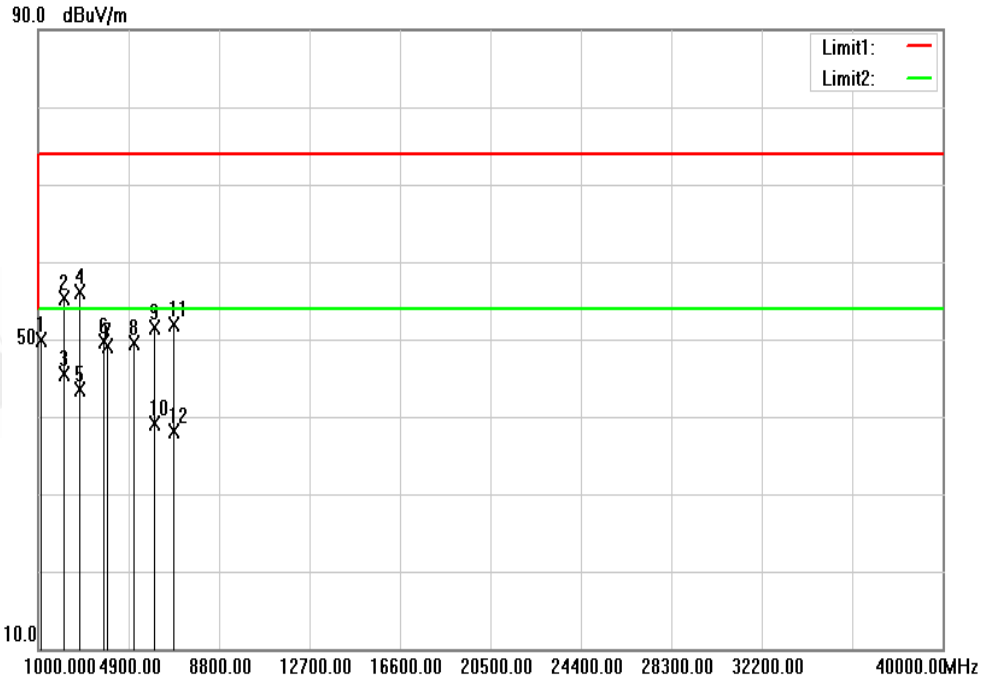
Model no.	HSN-I45C-6	**Test Mode**	Mode 31
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	68.31	-18.37	49.94	74.00	-24.06	200	289	peak
2	2088.000	68.22	-12.90	55.32	74.00	-18.68	100	197	peak
3	2088.000	58.44	-12.90	45.54	54.00	-8.46	100	197	AVG
4	2759.500	68.70	-12.63	56.07	74.00	-17.93	100	189	peak
5	2759.500	56.15	-12.63	43.52	54.00	-10.48	100	189	AVG
6	3779.500	60.45	-10.78	49.67	74.00	-24.33	200	194	peak
7	4000.500	59.87	-10.84	49.03	74.00	-24.97	100	165	peak
8	5097.000	56.86	-7.42	49.44	74.00	-24.56	300	360	peak
9	5989.500	55.30	-3.79	51.51	74.00	-22.49	300	276	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	5989.500	42.91	-3.79	39.12	54.00	-14.88	300	276	AVG
11	6831.000	55.23	-3.26	51.97	74.00	-22.03	100	118	peak
12	6831.000	41.42	-3.26	38.16	54.00	-15.84	100	118	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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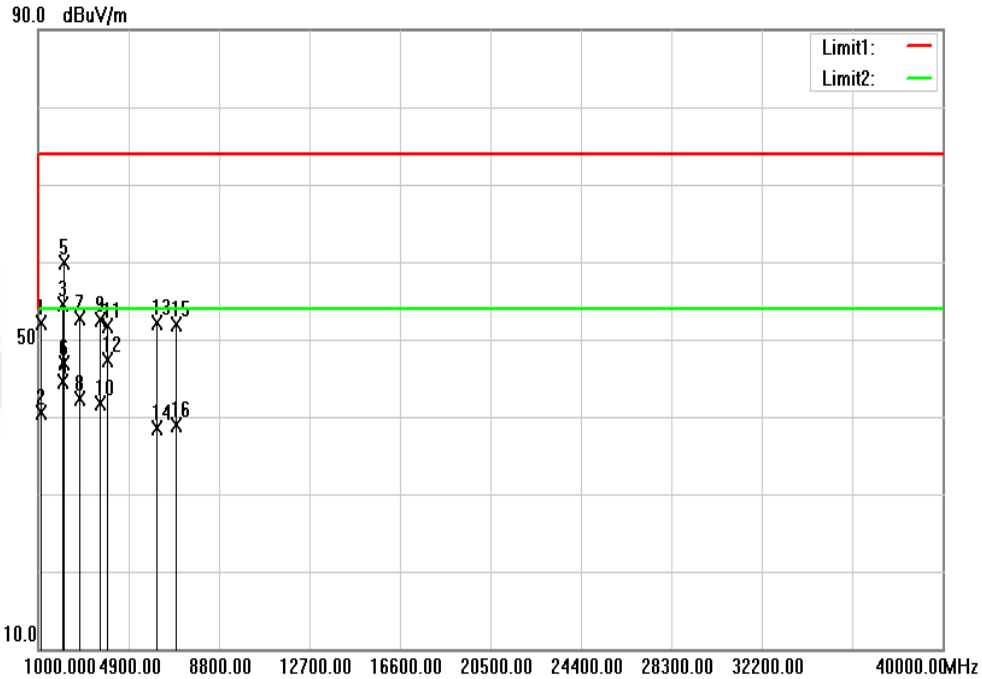
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	70.39	-18.37	52.02	74.00	-21.98	200	253	peak
2	1110.500	58.80	-18.37	40.43	54.00	-13.57	200	253	AVG
3	2045.500	67.62	-13.17	54.45	74.00	-19.55	200	253	peak
4	2045.500	57.76	-13.17	44.59	54.00	-9.41	200	253	AVG
5	2088.000	72.82	-12.90	59.92	74.00	-14.08	100	194	peak
6	2088.000	59.81	-12.90	46.91	54.00	-7.09	100	194	AVG
7	2759.500	65.40	-12.63	52.77	74.00	-21.23	200	245	peak
8	2759.500	54.97	-12.63	42.34	54.00	-11.66	200	245	AVG
9	3643.500	63.64	-11.04	52.60	74.00	-21.40	100	250	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	3643.500	52.80	-11.04	41.76	54.00	-12.24	100	250	AVG
11	4000.500	62.64	-10.84	51.80	74.00	-22.20	100	186	peak
12	4000.500	58.23	-10.84	47.39	54.00	-6.61	100	186	AVG
13	6074.500	56.35	-4.18	52.17	74.00	-21.83	200	103	peak
14	6074.500	42.67	-4.18	38.49	54.00	-15.51	200	103	AVG
15	6950.000	55.05	-3.18	51.87	74.00	-22.13	225	0	peak
16	6950.000	42.13	-3.18	38.95	54.00	-15.05	225	0	AVG

REMARKS:

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

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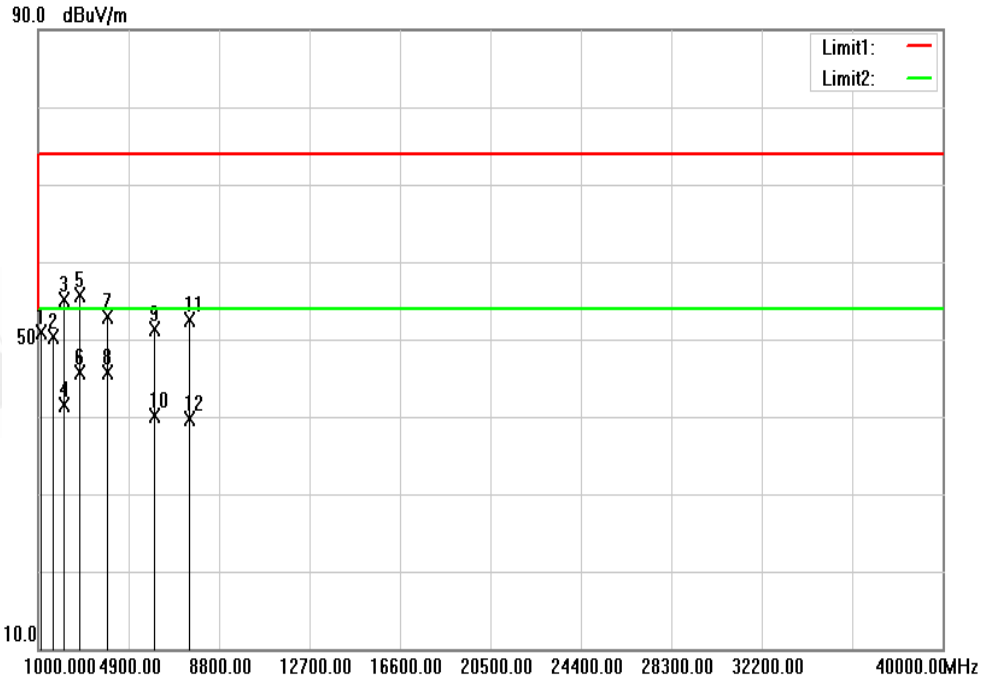
Model no.	HSN-I45C-6	**Test Mode**	Mode 32
Environmental Conditions	24℃, 53% RH	**Tested Date**	2021/10/28
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	69.22	-18.37	50.85	74.00	-23.15	200	268	peak
2	1603.500	67.61	-17.28	50.33	74.00	-23.67	200	204	peak
3	2088.000	68.05	-12.90	55.15	74.00	-18.85	100	202	peak
4	2088.000	54.44	-12.90	41.54	54.00	-12.46	100	202	AVG
5	2759.500	68.39	-12.63	55.76	74.00	-18.24	100	195	peak
6	2759.500	58.41	-12.63	45.78	54.00	-8.22	100	195	AVG
7	4000.500	63.81	-10.84	52.97	74.00	-21.03	100	186	peak
8	4000.500	56.56	-10.84	45.72	54.00	-8.28	100	186	AVG
9	6006.500	55.07	-3.69	51.38	74.00	-22.62	202	0	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	6006.500	43.73	-3.69	40.04	54.00	-13.96	202	0	AVG
11	7485.500	55.33	-2.85	52.48	74.00	-21.52	100	1	peak
12	7485.500	42.48	-2.85	39.63	54.00	-14.37	100	1	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-6

Mode_25, 31_+

Mode_25, 31_-

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Model No.: HSN-I45C-6

Mode_30, 32_+

Mode_30, 32_-

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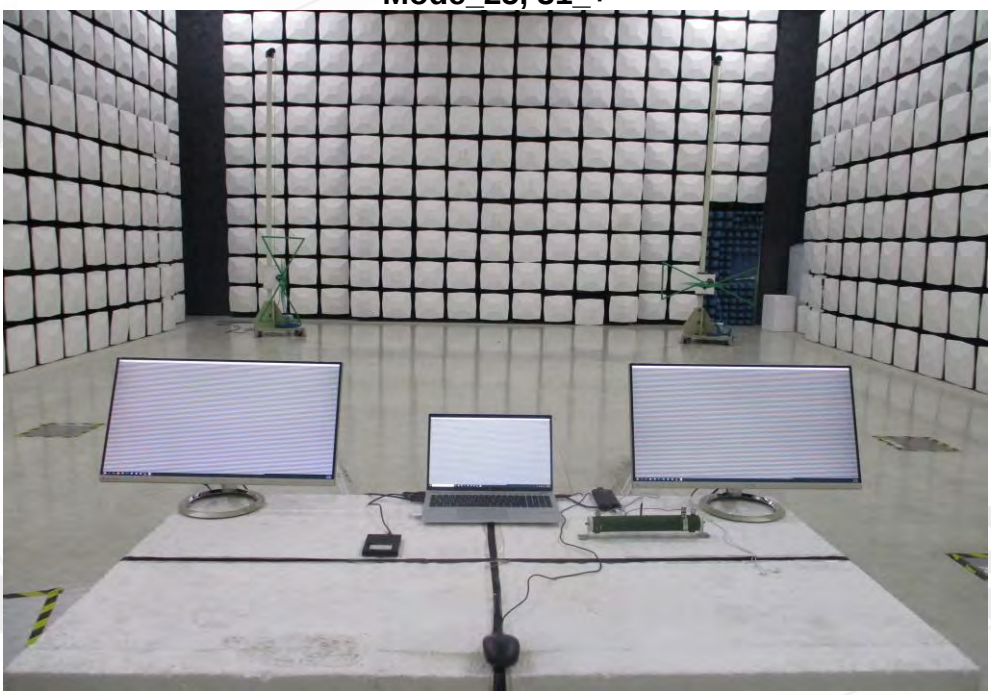
RE Testing Set-up

Below 1GHz

Model No.: HSN-I45C-6

Mode_25, 31_+



Mode_25, 31_-

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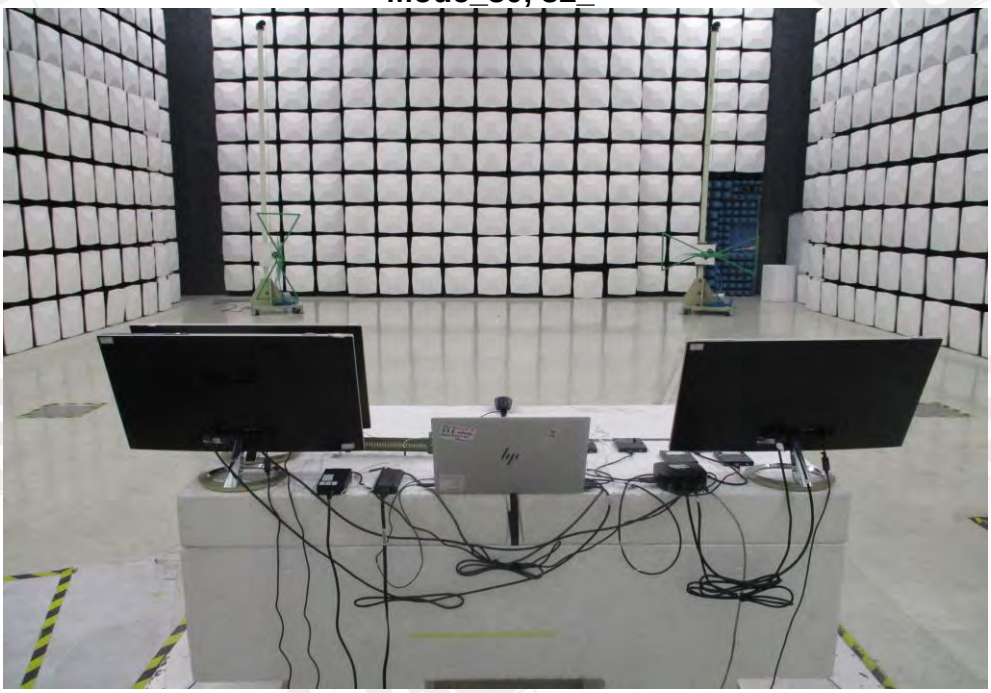
Model No.: HSN-I45C-6

Mode_30, 32_+

Mode_30, 32_-



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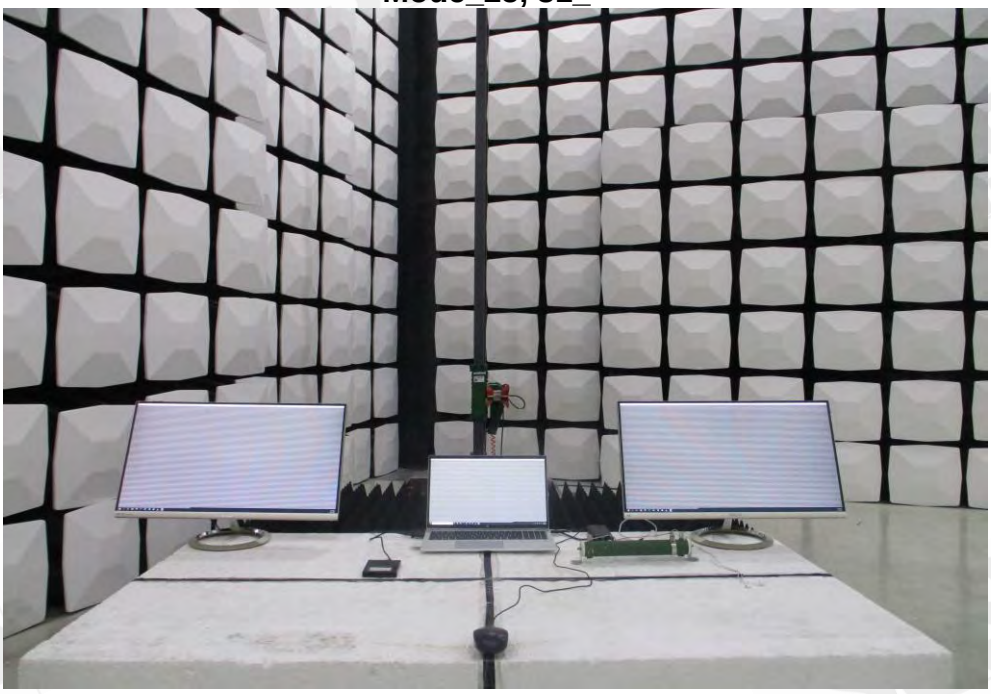
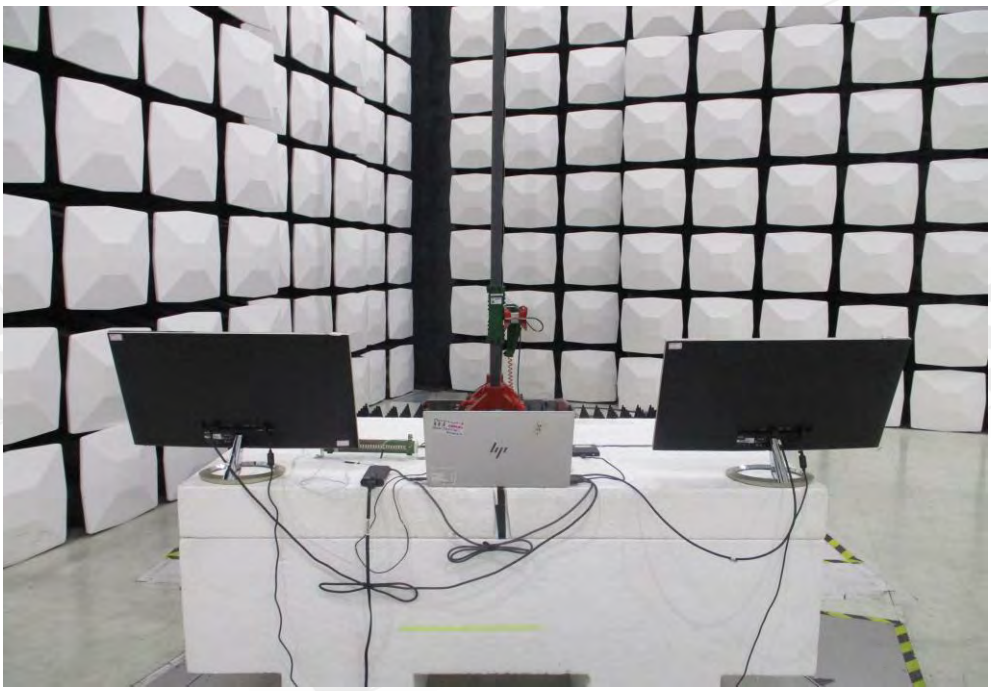
Above 1GHz

Model No.: HSN-I45C-6

Mode_25, 31_+



Mode_25, 31_-



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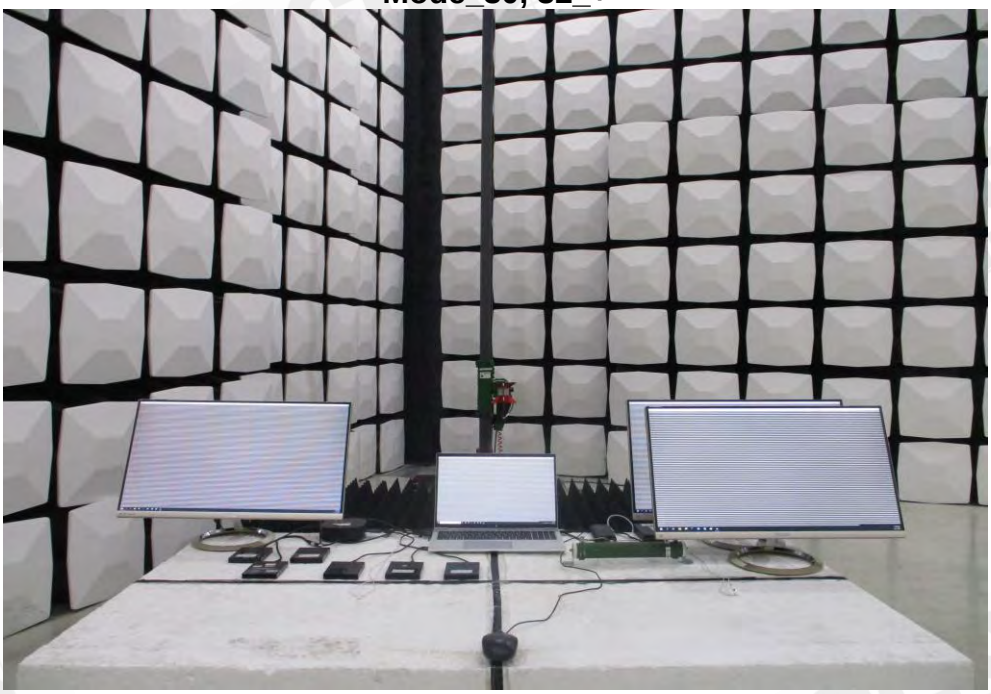
Mode_30, 32_+



Mode_30, 32_-

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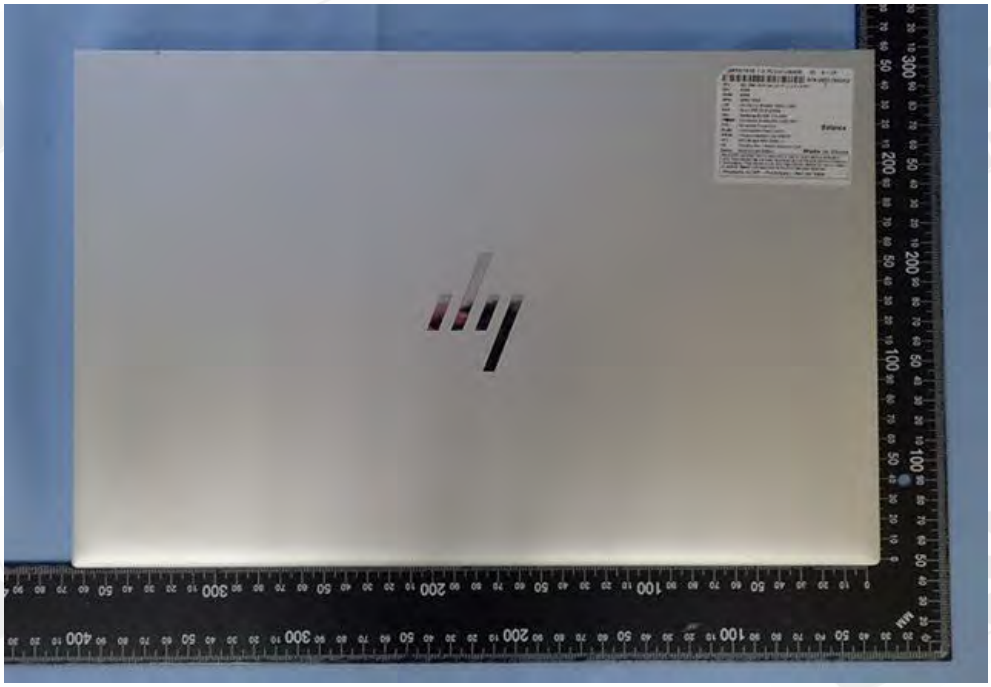
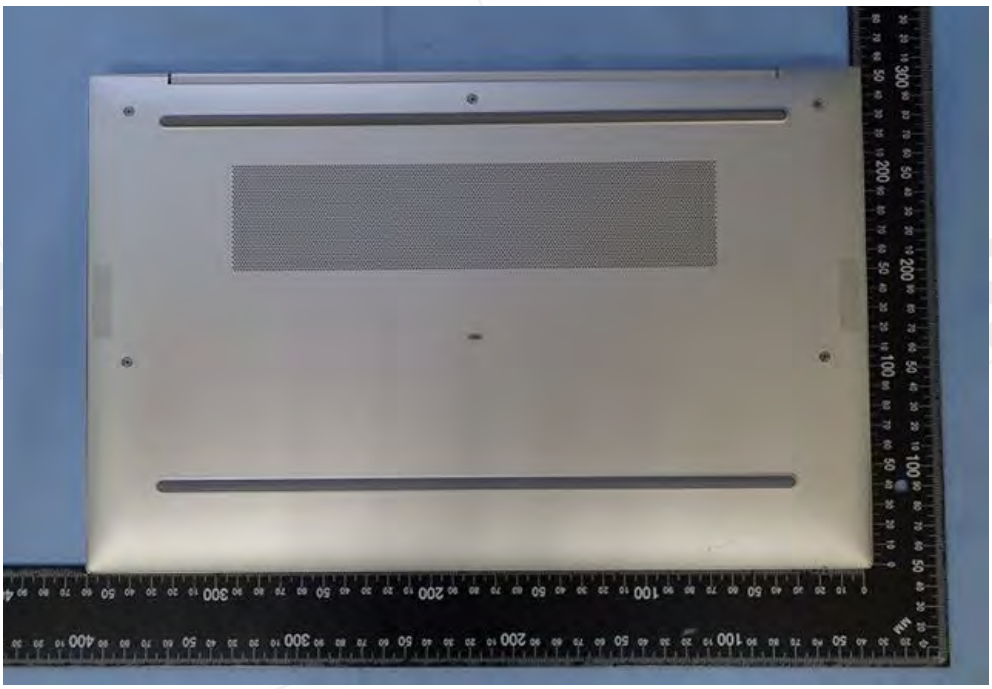
Photographs of Product

Exterior

Model No.: HSN-I45C-6

Type 1





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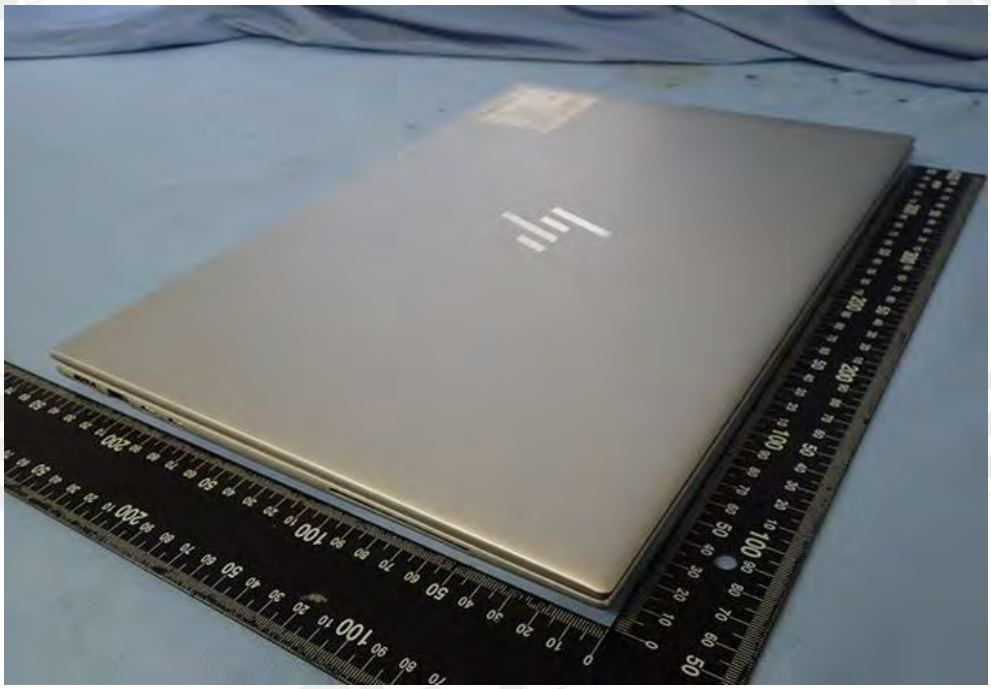

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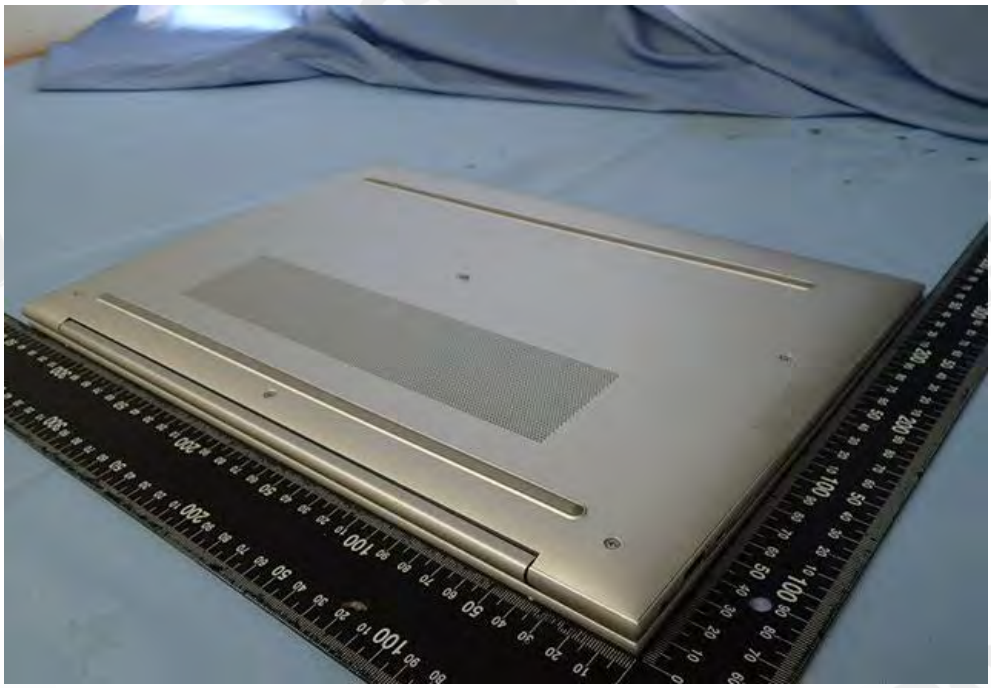

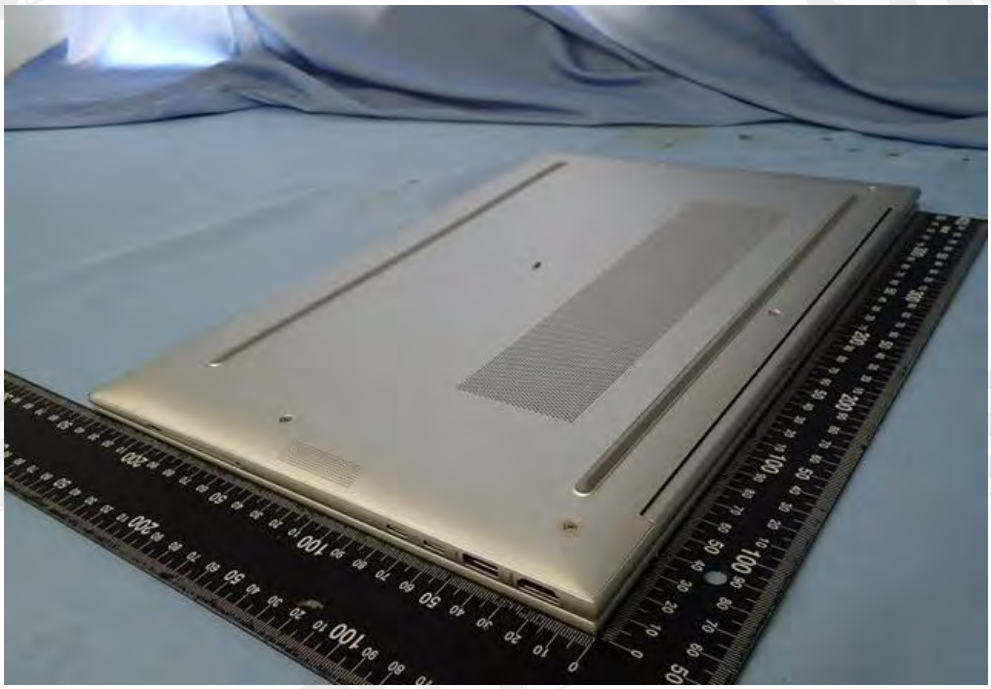

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Model No.: HSN-I45C-6

Type 2

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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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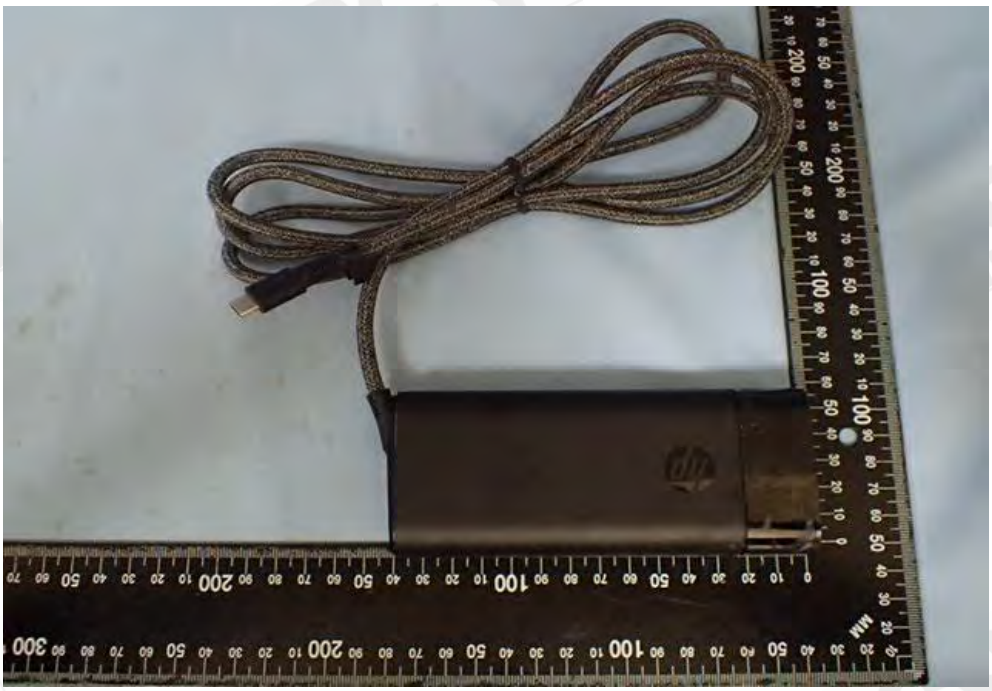
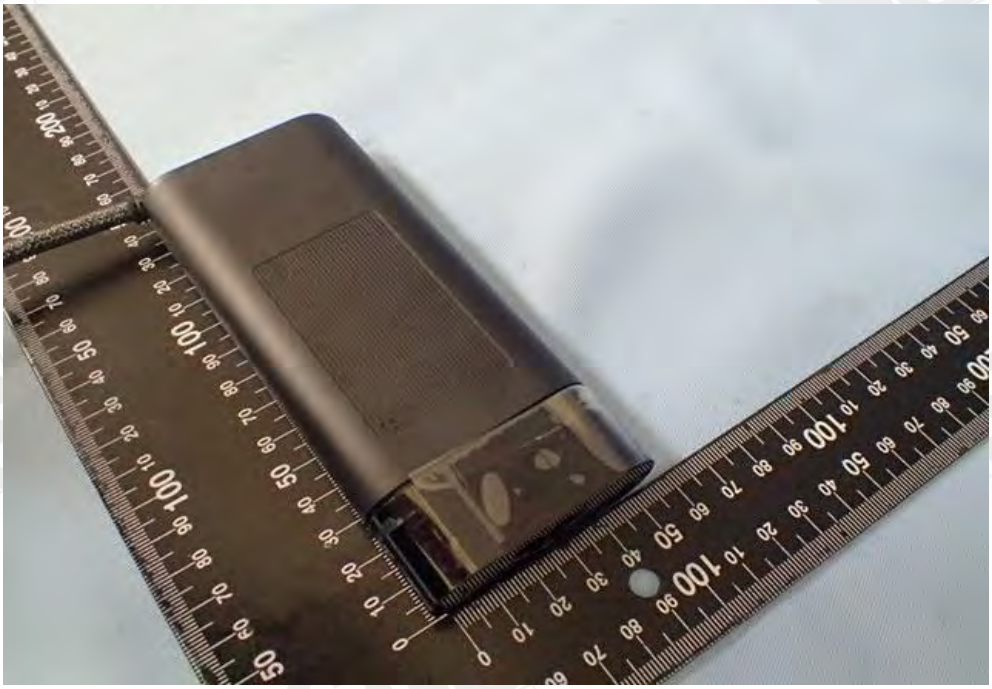
Adapter Model No.: TPN-CA24





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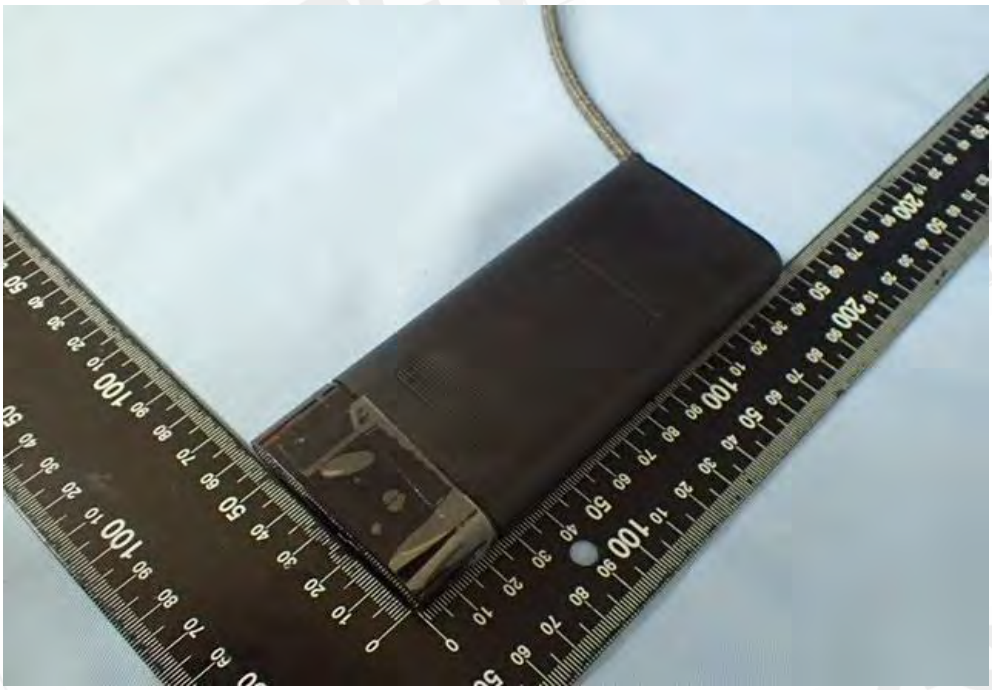

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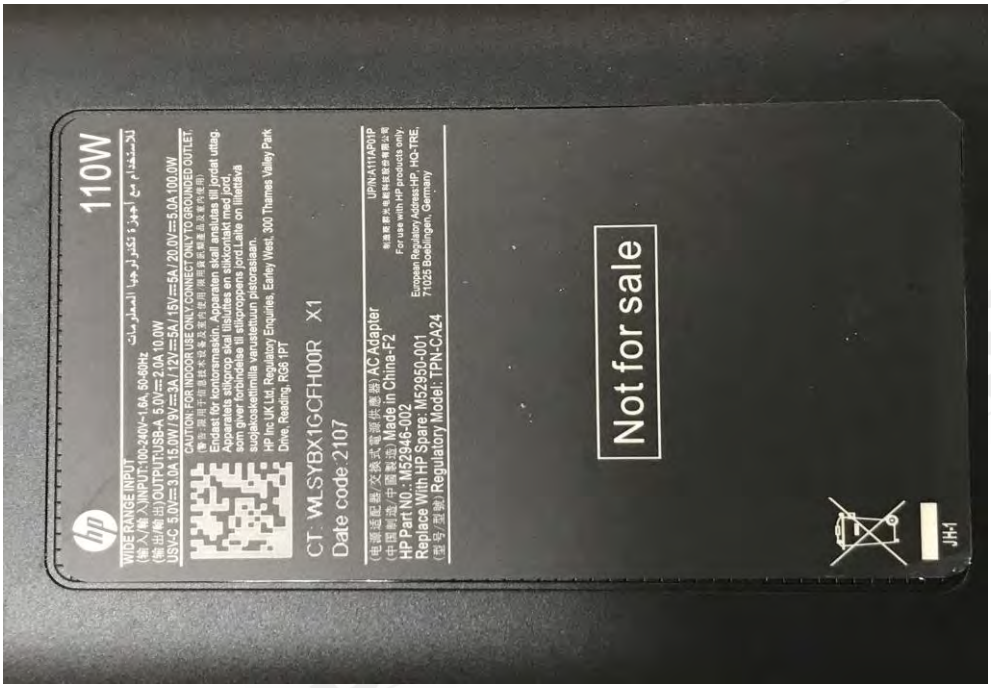

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Adapter Model No.: TPN-AA07

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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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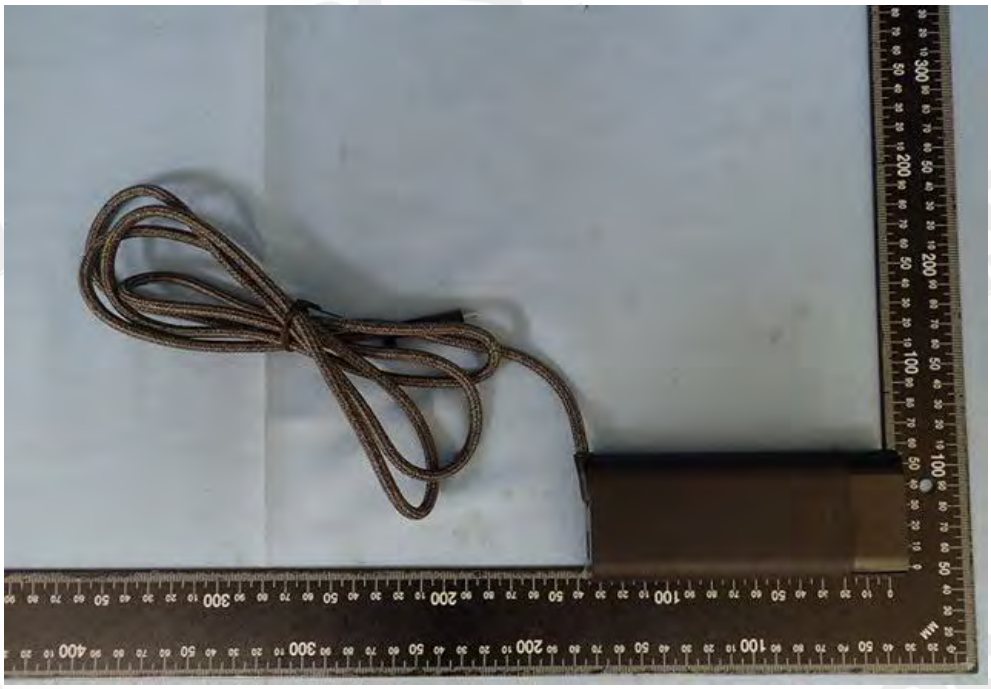
Adapter Model No.: TPN-DA24



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Adapter Model No.: TPN-HA01

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** End of Report **

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