FCC SDoC REPORT
ICES-003 TEST REPORT

Test Report No.	**: T210723L03-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-4**
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 ~ Sep. 12, 2021**
Date of Issue	**: Nov. 15, 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. 15, 2021

Hex Chiang (Supervisor)

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Revision History

Revision	Report Number	Description	Issue Date
00	T210723L03-A-F	Original	Nov. 15, 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-4
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
UMA	Inventec / 6050A3299901	N/A	45W / 65W

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	
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
Adapter Power 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 (8GB/16GB/32GB)	
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

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CPU	Intel	i7-1260P 2.10GHz
		i7-1270P 2.20GHz
		i7-1280P 1.80GHz
14.0” LCD Panel	AUO	B140QAN03.H
		B140UAN03.0
		B140UAK01.0
		B140UAN02.4
	BOE	NV140WUM-N41
		NV140WUM-T01
		NE140WUM-N67
	INX	N140JCA-EEK
		N140JCN-EEK
		N140JCG-GS9
	IVO	X140NV4J
	LGD	LP140WU2
		LP140WU1
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)
	Kioxia	KBG40ZNV256G (256GB)
		KBG40ZNV512G (512GB)
	Intel	SSDPEKNU512GZH (512GB)
	AData	IM2P33F8-256GD1 (256GB)
		IM2P33F8-512GD1 (512GB)
	Western Digital	SDCQNRY-256G-1006 (256GB)
		SDBPNPZ-256G-1006 (256GB)
		SDCPNRY-256G-1006 (256GB)
		SDCQNRY-512G-1006 (512GB)

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SSD	Western Digital	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-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
		AX211D2W
NFC	WNC	XRAV-1
WWAN	Fibocom	L860-GL-16
		FM350-GL

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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 B140QAN03.H	Samsung MZVL2256HCHQ-00BH7 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) TPN-DB0P	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 B140UAN03.0	Samsung MZVLQ256HBJD-00BH1 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Dynapack (hp) TPN-DB0J	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 B140UAK01.0	Samsung MZVL2256HCHQ-00BH1 (256GB)	Ramaxel RETMEDB32GSBB (32GB)	Dynapack (hp) TPN-DB0K	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	AUO B140UAN02.4	Samsung MZVL2512HCJQ-00BH7 (512GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) TPN-IB0B	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 NV140WUM-N41	Samsung MZVLQ512HBLU-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9X	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Foxlink FO50FF-836H	Acbel (hp) TPN-AA07	Inventec 6050A3299901	N/A	N/A
6	Intel i7-1265U 1.80GHz	32GB + 32GB DDR5 4800MHz	BOE NV140WUM-T01	Samsung MZVL2512HCJQ-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSJ	Lite-on (hp) TPN-LA12	Inventec 6050A3299901	N/A	N/A
7	Intel i7-1260P 2.10GHz	32GB + 32GB DDR5 4800MHz	BOE NE140WUM-N67	Samsung MZVL21T0HCLR-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-LA19	Inventec 6050A3299901	N/A	N/A
8	Intel i7-1270P 2.20GHz	32GB + 32GB DDR5 4800MHz	INX N140JCA-EEK	Samsung MZVL22T0HBLB-00BH1 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	LG Energy Solution (hp) HSTNN-LB8V	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	TFC YHSK	Lite-on (hp) TPN-LA23	Inventec 6050A3299901	N/A	N/A
9	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	INX N140JCN-EEK	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-DA15	Inventec 6050A3299901	N/A	N/A
10	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	INX N140JCG-GS9	Kioxia KBG40ZNV512G (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Delta (hp) TPN-DA20	Inventec 6050A3299901	N/A	N/A
11	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	IVO X140NV4J	Intel SSDPEKNU512GZH (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Honor (hp) TPN-HA01	Inventec 6050A3299901	N/A	N/A
12	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	AData IM2P33F8-256GD1 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
13	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU1	AData IM2P33F8-512GD1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
14	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCQNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
15	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDBPNPZ-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
16	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
17	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCQNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
18	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDBPNPZ-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
19	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
20	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRY-1T00-1006 (1TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
21	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRZ-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
22	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Hynix HFM256GD3JX013N (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
23	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Hynix HFM512GD3JX013N (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
24	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Micron MTFDHBA512QFD-1AX1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
25	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Micron MTFDKBA512TFH-1BC1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
26	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Micron MTFDKBA1T0TFH-1BC1AABHA (1TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
27	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
28	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	SSSTC CA6-8D256-HP (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
29	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	SSSTC CL4-8D256-HP (256GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
30	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	SSSTC CA6-8D512-HP (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
31	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	SSSTC CL4-8D512-HP (512GB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	N/A
32	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRZ-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211NGW	WNC XRAV-1	Fibocom FM350-GL	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	N/A	HP HSN-IX02
33	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRZ-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211D2W	WNC XRAV-1	N/A	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	Inventec 6050A3299901	Nvidia QN20-M1-R	N/A
34	Intel i7-1280P 1.80GHz	32GB + 32GB DDR5 4800MHz	LGD LP140WU2	Western Digital SDCPNRZ-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	Simplo (hp) HSTNN-IB9Y	Intel AX211D2W	WNC XRAV-1	N/A	Luxvisions 0BF505N3	Chicony (hp) TPN-CA21	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 21, 32 (1920 x 1080 Resolution)**
	Mode 33, 34 (2560 x 1600 Resolution)
Below 1GHz RE	**Mode 21, 32 (1920 x 1080 Resolution)**
	Mode 33, 34 (2560 x 1600 Resolution)
Above 1GHz RE	**Mode 21, 32 (1920 x 1080 Resolution)**
	Mode 33, 34 (2560 x 1600 Resolution)

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1.5 Description of Support Units

Mode 21:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone (CE)	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

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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)	Lenovo	GS-4021M	57Y4488
Earphone (CE)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	Apple	N/A	N/A
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

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Mode 33:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone (CE)	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

Mode 34:

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)	Lenovo	GS-4021M	57Y4488
Earphone (CE)	Lenovo	GS-4021M	57Y4488
Earphone (RE, HRE)	Apple	N/A	N/A
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

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Support Equipment Used in Tested Cable

Mode 21, 33:

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 32, 34:

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

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1.6 Operation Procedure

Mode 21:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT execute the “WinEMC” test software to send “H” Pattern to display on the screen.
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 32:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT execute the “WinEMC” test software to send “H” Pattern to display on the screen.
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. ISN test, using TFGEN 1.0.exe program will push traffic to 10%, 250ms for testing.
11. Setup the condition for test mode and begin the test.

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Mode 33:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT execute the “WinEMC” test software to send “H” Pattern to display on the screen.
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 34:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WinEMC” test software.
3. The EUT execute the “WinEMC” test software to send “H” Pattern to display on the screen.
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. ISN test, using TFGEN 1.0.exe program will push traffic to 10%, 250ms for testing.
9. Setup the condition for test mode and begin the test.

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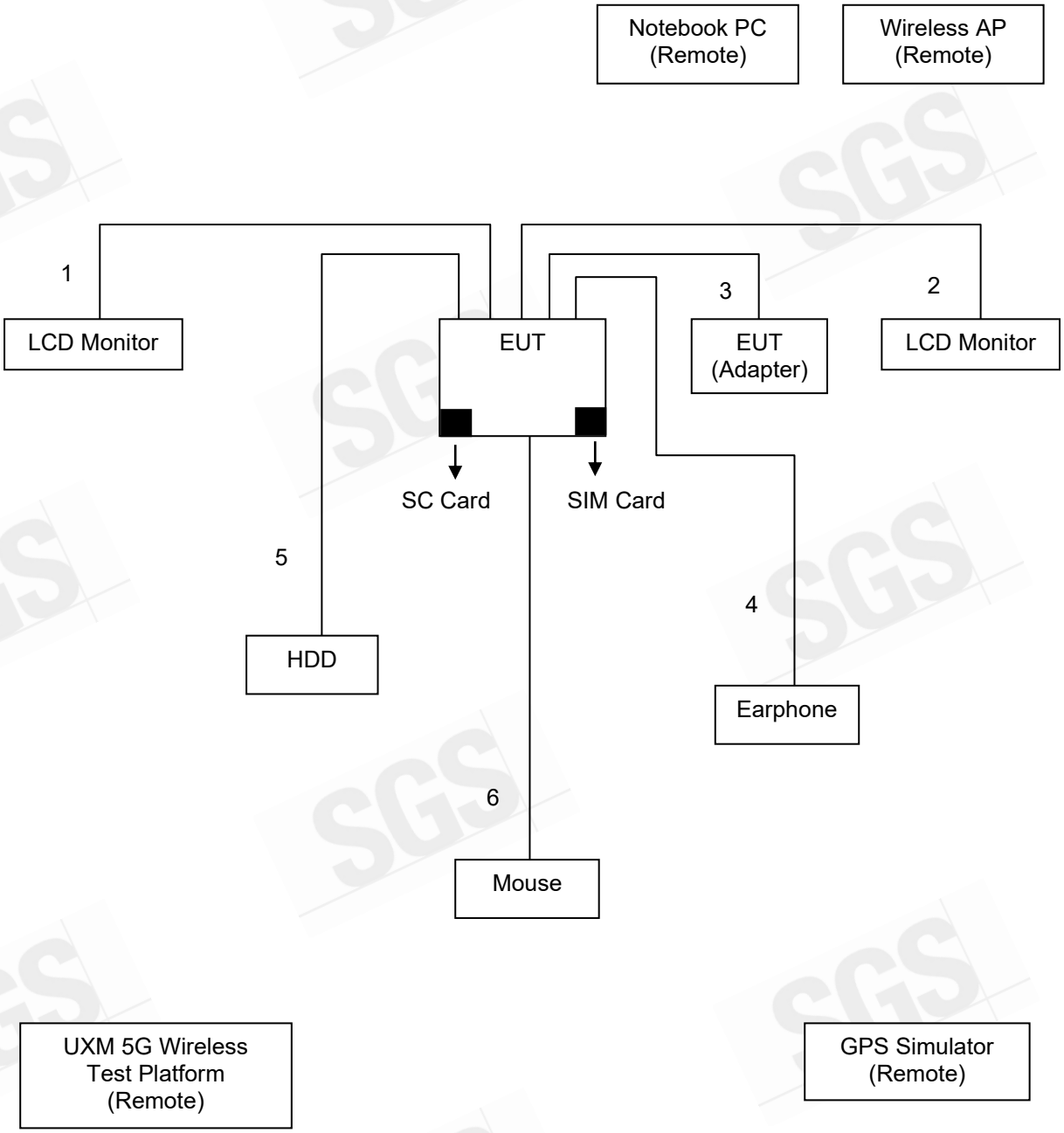
1.7 Test Set-Up Configuration

Mode 21:



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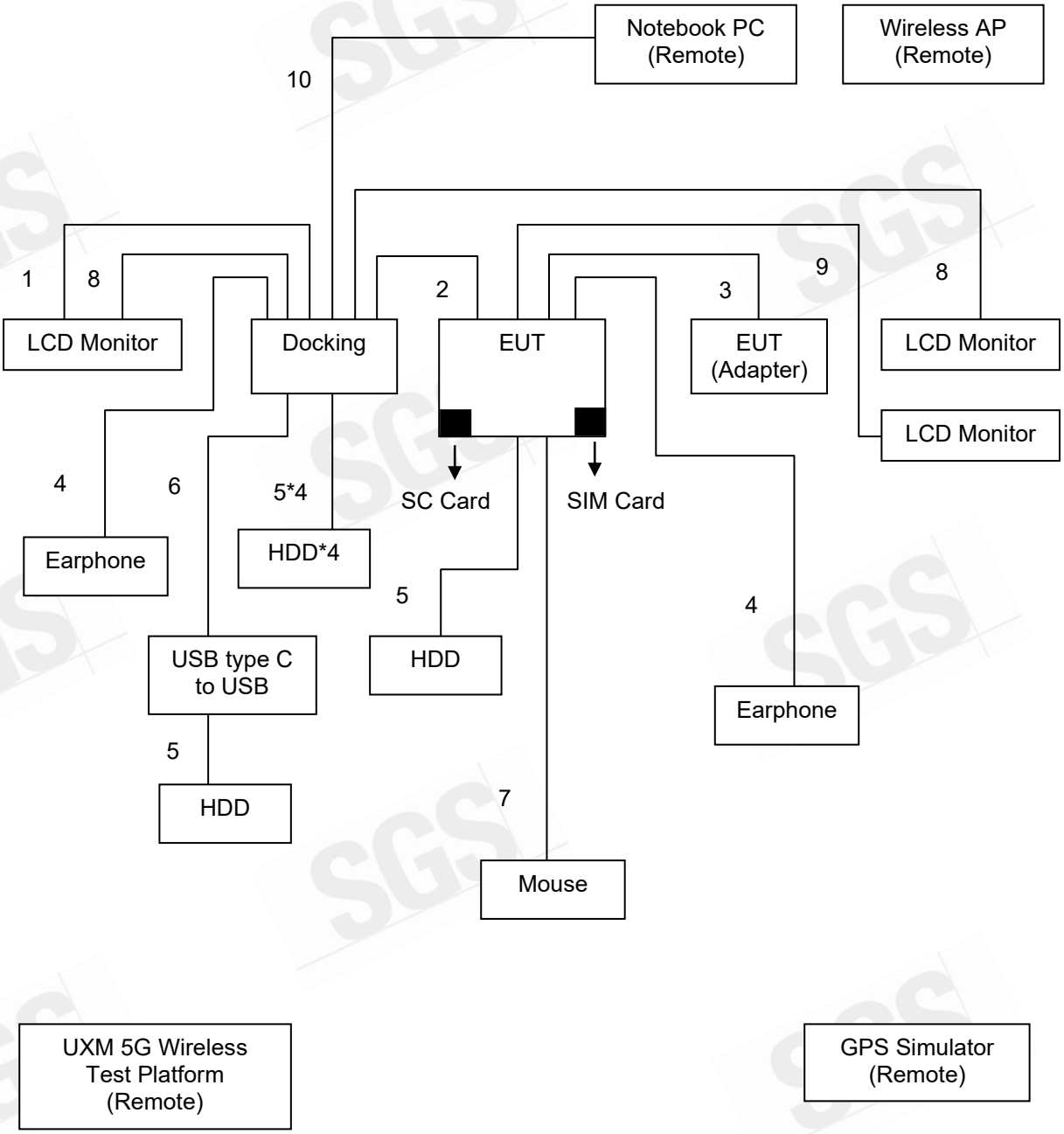
Mode 32:



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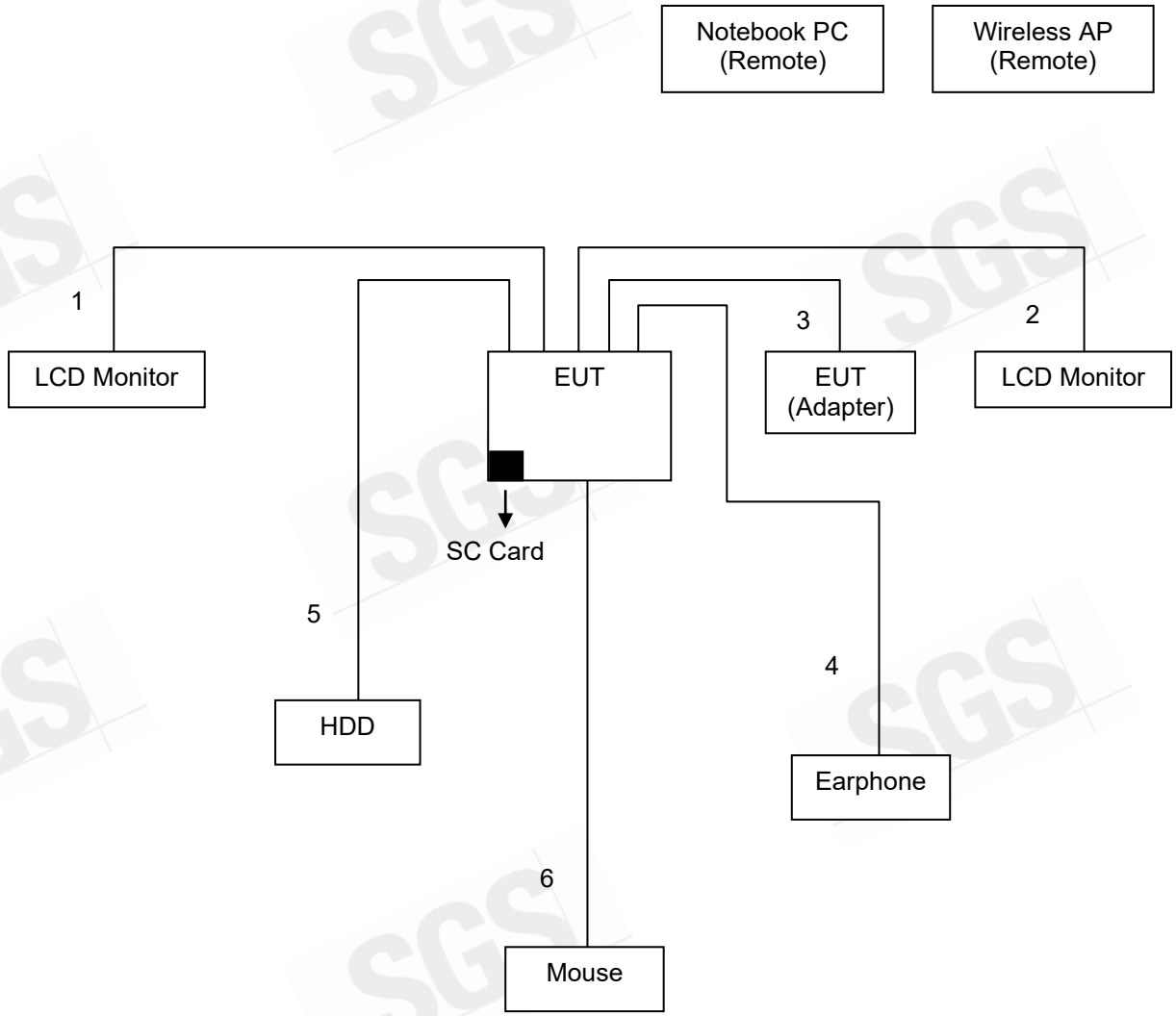

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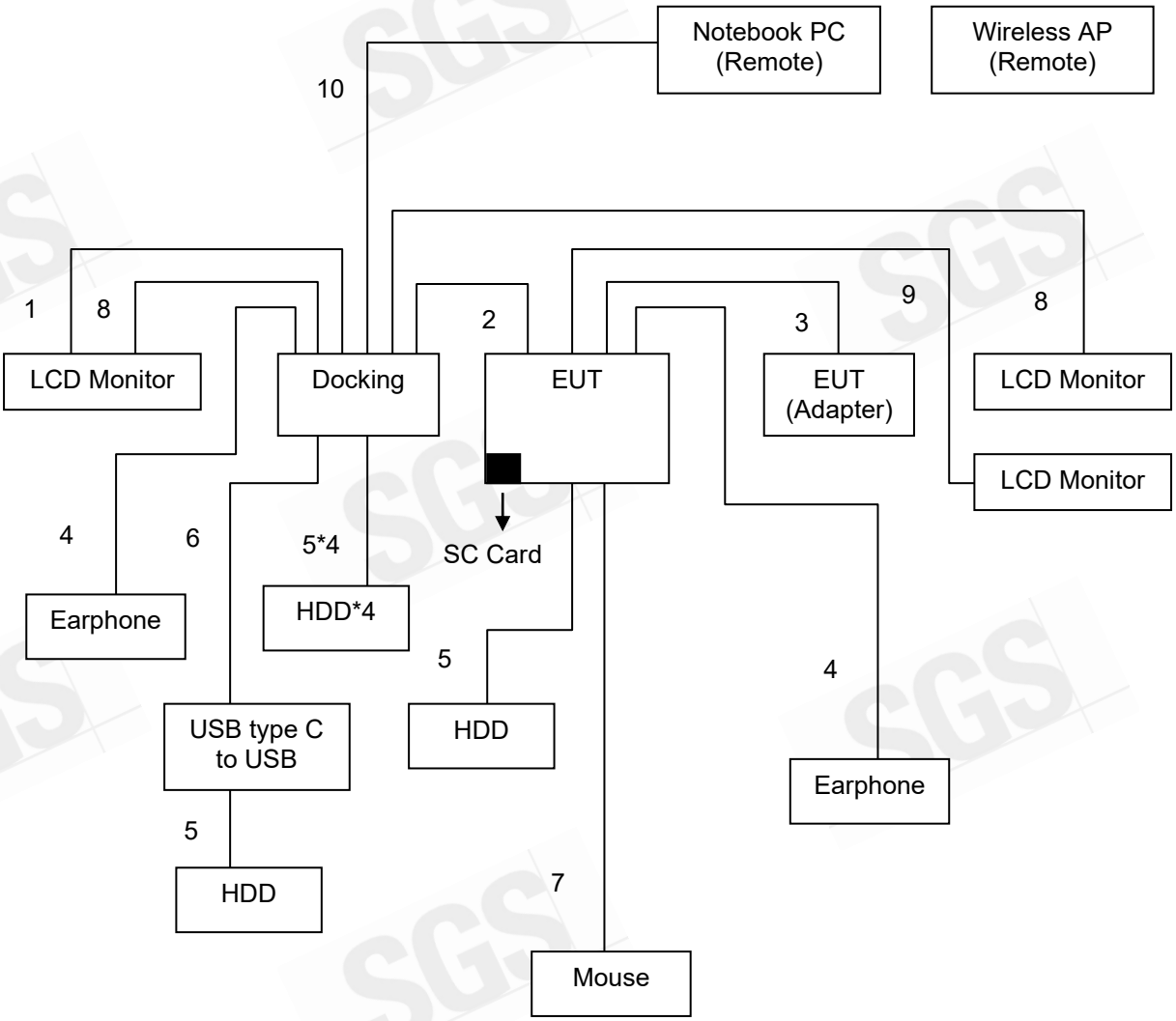
Mode 34:



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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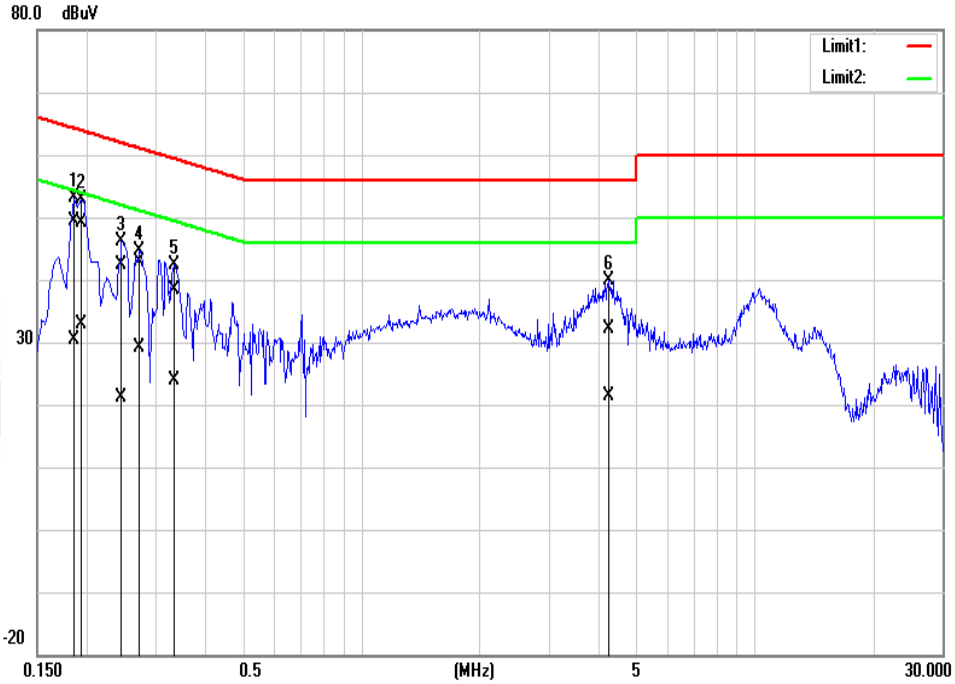
2.4.3 Measurement Data:

Model no.	HSN-I45C-4	**Line:**	L1
Environmental Conditions	24℃, 50% RH	**Tested Date**	2021/08/17
Test Mode	Mode 21	**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	49.30	30.24	0.14	49.44	30.38	64.21	54.21	-14.77	-23.83	Pass
2*	0.1940	49.02	32.79	0.14	49.16	32.93	63.86	53.86	-14.70	-20.93	Pass
3	0.2460	42.24	20.93	0.14	42.38	21.07	61.89	51.89	-19.51	-30.82	Pass
4	0.2740	42.66	28.98	0.14	42.80	29.12	60.99	51.00	-18.19	-21.88	Pass
5	0.3339	38.17	23.84	0.15	38.32	23.99	59.35	49.35	-21.03	-25.36	Pass
6	4.2540	31.77	21.09	0.28	32.05	21.37	56.00	46.00	-23.95	-24.63	Pass

Note: L1 = Live Line

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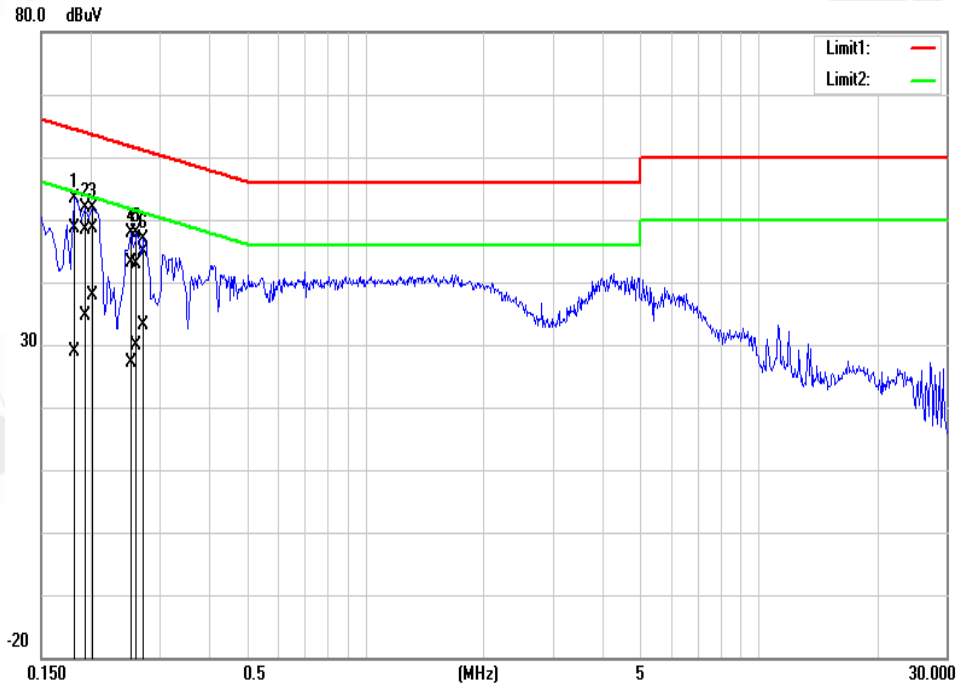
Model no.	HSN-I45C-4	**Line:**	N
Environmental Conditions	24℃, 50% RH	**Tested Date**	2021/08/17
Test Mode	Mode 21	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	0.1819	48.46	28.80	0.15	48.61	28.95	64.39	54.40	-15.78	-25.45	Pass
2	0.1940	48.20	34.41	0.15	48.35	34.56	63.86	53.86	-15.51	-19.30	Pass
3*	0.2020	48.39	37.68	0.15	48.54	37.83	63.52	53.53	-14.98	-15.70	Pass
4	0.2540	42.86	26.90	0.15	43.01	27.05	61.62	51.63	-18.61	-24.58	Pass
5	0.2620	42.74	29.65	0.15	42.89	29.80	61.36	51.37	-18.47	-21.57	Pass
6	0.2740	44.82	33.07	0.15	44.97	33.22	60.99	51.00	-16.02	-17.78	Pass

Note: N = Neutral Line

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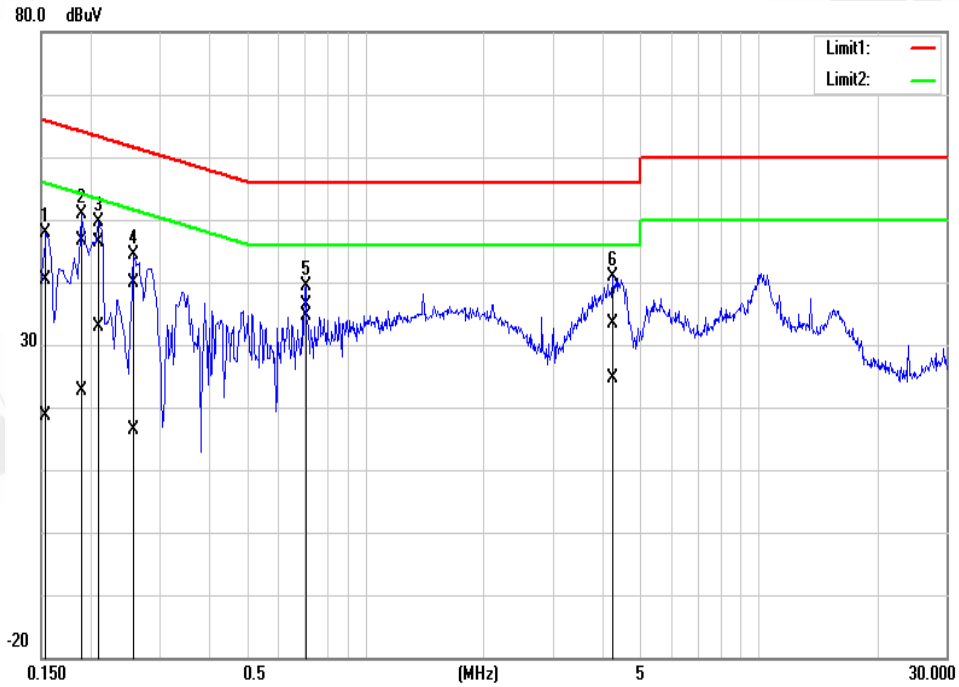
Model no.	HSN-I45C-4	**Line:**	L1
Environmental Conditions	23℃, 46% RH	**Tested Date**	2021/08/18
Test Mode	Mode 32	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	0.1539	40.32	18.56	0.12	40.44	18.68	65.78	55.79	-25.34	-37.11	Pass
2	0.1900	46.41	22.48	0.14	46.55	22.62	64.03	54.04	-17.48	-31.42	Pass
3	0.2100	46.16	32.70	0.14	46.30	32.84	63.20	53.21	-16.90	-20.37	Pass
4	0.2580	39.65	16.16	0.14	39.79	16.30	61.49	51.50	-21.70	-35.20	Pass
5*	0.7060	36.14	34.54	0.17	36.31	34.71	56.00	46.00	-19.69	-11.29	Pass
6	4.2619	33.06	24.35	0.29	33.35	24.64	56.00	46.00	-22.65	-21.36	Pass

Note: L1 = Live Line

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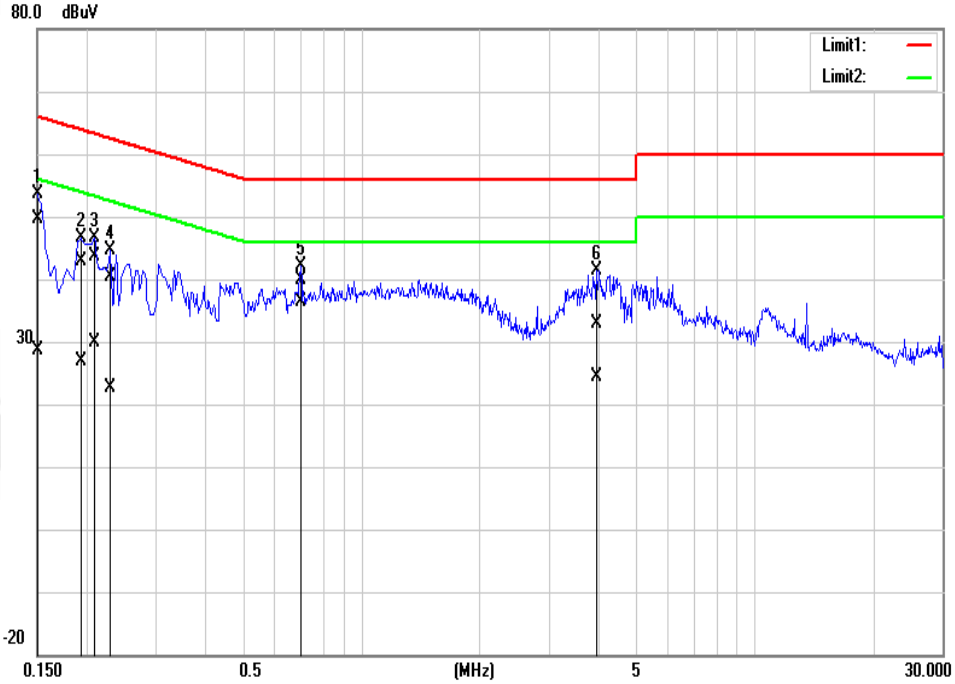
Model no.	HSN-I45C-4	Line:	N
Environmental Conditions	23℃, 46% RH	Tested Date	2021/08/18
Test Mode	Mode 32	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	49.55	28.48	0.14	49.69	28.62	65.99	56.00	-16.30	-27.38	Pass
2	0.1940	42.63	26.85	0.15	42.78	27.00	63.86	53.86	-21.08	-26.86	Pass
3	0.2100	43.49	29.75	0.15	43.64	29.90	63.20	53.21	-19.56	-23.31	Pass
4	0.2300	40.35	22.60	0.15	40.50	22.75	62.45	52.45	-21.95	-29.70	Pass
5*	0.7019	39.61	36.26	0.17	39.78	36.43	56.00	46.00	-16.22	-9.57	Pass
6	3.9740	32.59	24.07	0.29	32.88	24.36	56.00	46.00	-23.12	-21.64	Pass

Note: N = Neutral Line

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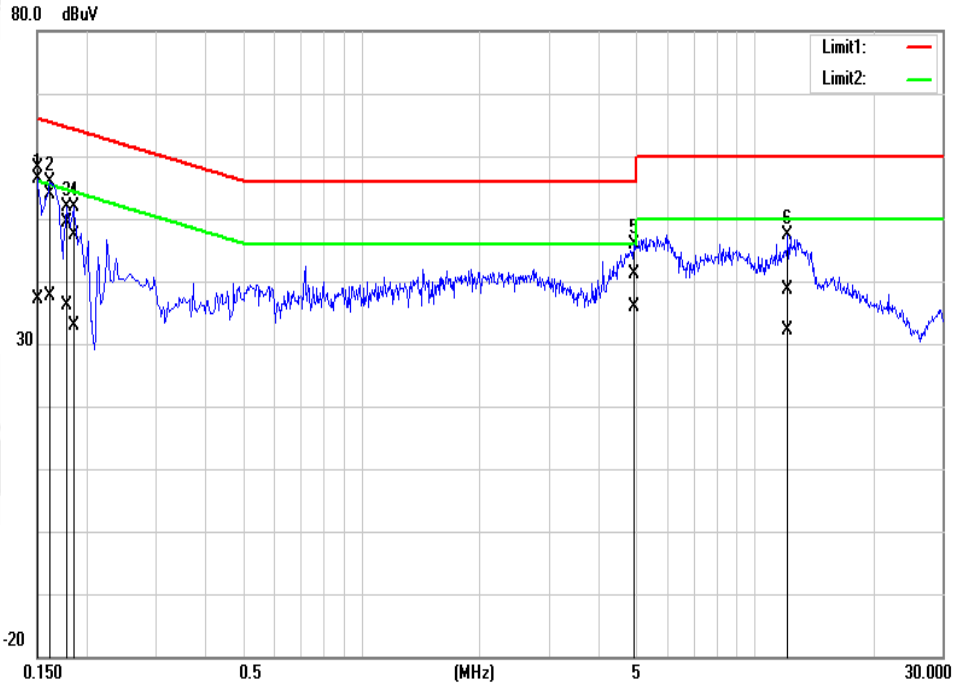
Model no.	HSN-I45C-4	Line:	L1
Environmental Conditions	22℃, 48% RH	Tested Date	2021/08/20
Test Mode	Mode 33	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	58.04	36.89	0.12	58.16	37.01	65.99	56.00	-7.83	-18.99	Pass
2	0.1620	53.87	37.40	0.12	53.99	37.52	65.36	55.36	-11.37	-17.84	Pass
3	0.1780	49.26	36.05	0.14	49.40	36.19	64.57	54.58	-15.17	-18.39	Pass
4	0.1860	47.17	32.62	0.14	47.31	32.76	64.21	54.21	-16.90	-21.45	Pass
5	4.9500	40.78	35.48	0.30	41.08	35.78	56.00	46.00	-14.92	-10.22	Pass
6	12.1820	38.19	31.74	0.46	38.65	32.20	60.00	50.00	-21.35	-17.80	Pass

Note: L1 = Live Line

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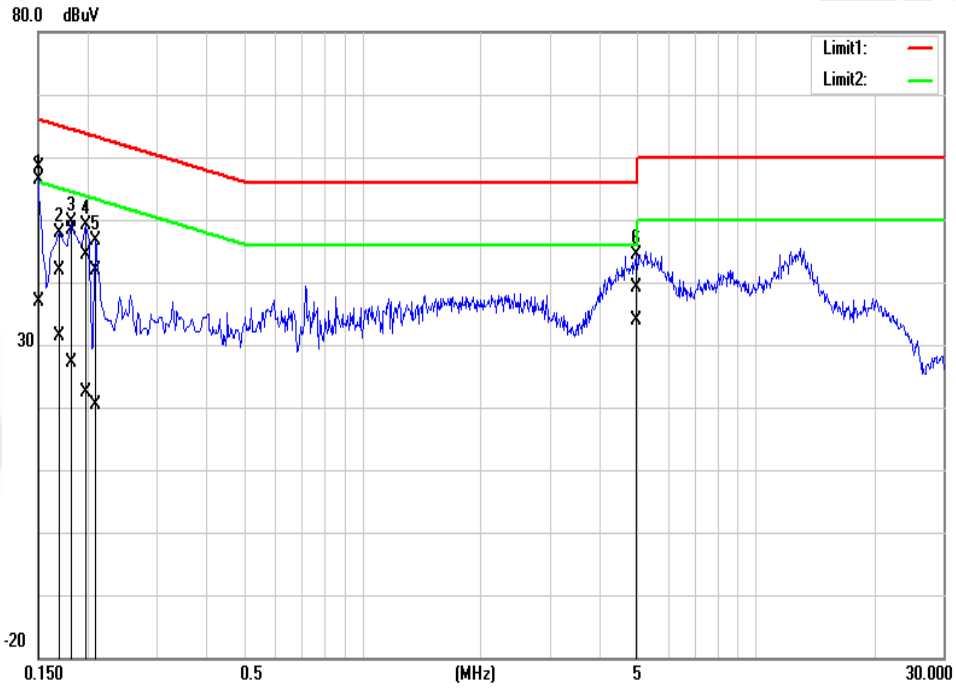
Model no.	HSN-I45C-4	Line:	N
Environmental Conditions	22℃, 48% RH	Tested Date	2021/08/20
Test Mode	Mode 33	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	58.24	36.66	0.14	58.38	36.80	65.99	56.00	-7.61	-19.20	Pass
2	0.1700	41.69	31.20	0.14	41.83	31.34	64.96	54.96	-23.13	-23.62	Pass
3	0.1819	48.34	27.06	0.15	48.49	27.21	64.39	54.40	-15.90	-27.19	Pass
4	0.1980	44.23	22.20	0.15	44.38	22.35	63.69	53.69	-19.31	-31.34	Pass
5	0.2100	41.71	20.12	0.15	41.86	20.27	63.20	53.21	-21.34	-32.94	Pass
6	4.9699	38.86	33.54	0.31	39.17	33.85	56.00	46.00	-16.83	-12.15	Pass

Note: N = Neutral Line

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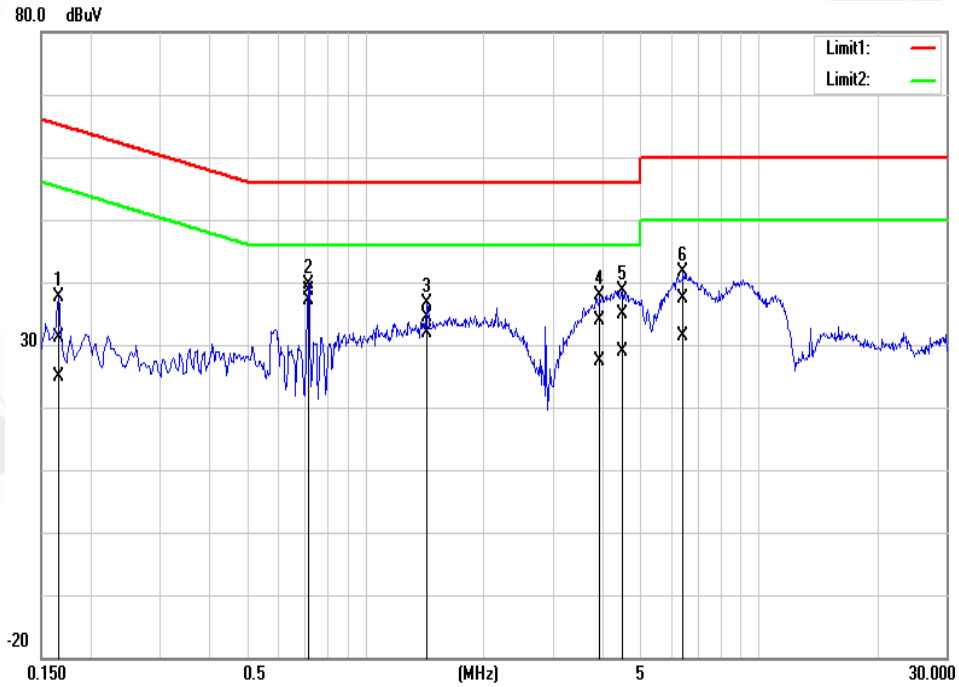
Model no.	HSN-I45C-4	Line:	L1
Environmental Conditions	23℃, 47% RH	Tested Date	2021/08/22
Test Mode	Mode 34	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	30.93	24.88	0.12	31.05	25.00	65.15	55.16	-34.10	-30.16	Pass
2*	0.7180	38.56	36.88	0.17	38.73	37.05	56.00	46.00	-17.27	-8.95	Pass
3	1.4380	34.23	31.58	0.18	34.41	31.76	56.00	46.00	-21.59	-14.24	Pass
4	3.9540	33.70	27.15	0.28	33.98	27.43	56.00	46.00	-22.02	-18.57	Pass
5	4.5060	34.63	28.52	0.29	34.92	28.81	56.00	46.00	-21.08	-17.19	Pass
6	6.4380	36.95	31.09	0.33	37.28	31.42	60.00	50.00	-22.72	-18.58	Pass

Note: L1 = Live Line

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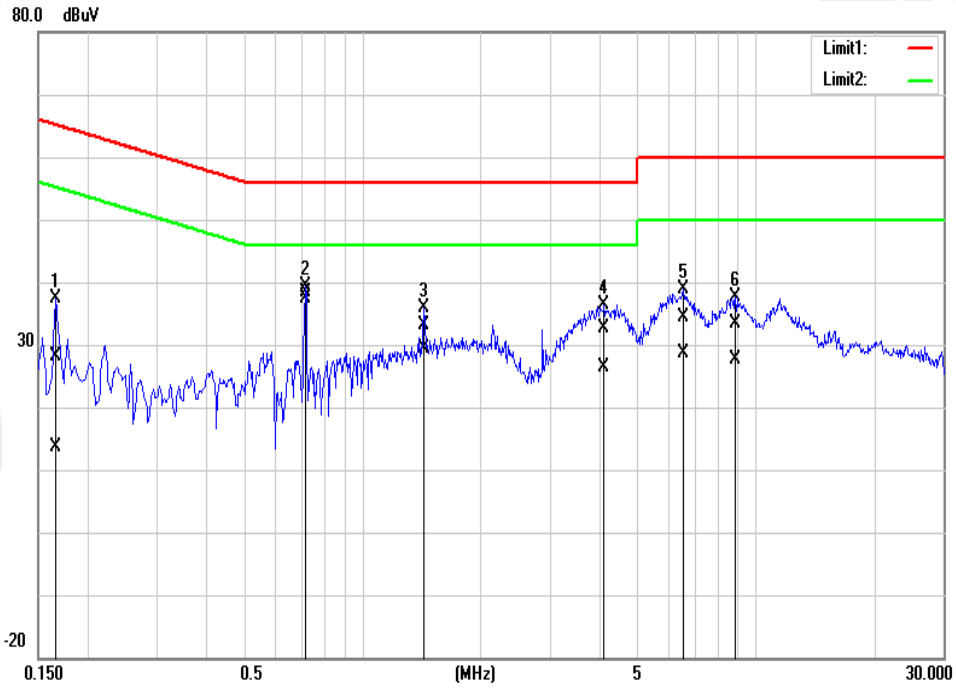
Model no.	HSN-I45C-4	**Line:**	N
Environmental Conditions	23℃, 47% RH	**Tested Date**	2021/08/22
Test Mode	Mode 34	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



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	28.01	13.56	0.14	28.15	13.70	65.15	55.16	-37.00	-41.46	Pass
2*	0.7180	38.14	37.18	0.19	38.33	37.37	56.00	46.00	-17.67	-8.63	Pass
3	1.4340	32.82	29.16	0.19	33.01	29.35	56.00	46.00	-22.99	-16.65	Pass
4	4.1140	32.26	26.17	0.29	32.55	26.46	56.00	46.00	-23.45	-19.54	Pass
5	6.5380	34.05	28.28	0.34	34.39	28.62	60.00	50.00	-25.61	-21.38	Pass
6	8.8700	32.96	27.13	0.40	33.36	27.53	60.00	50.00	-26.64	-22.47	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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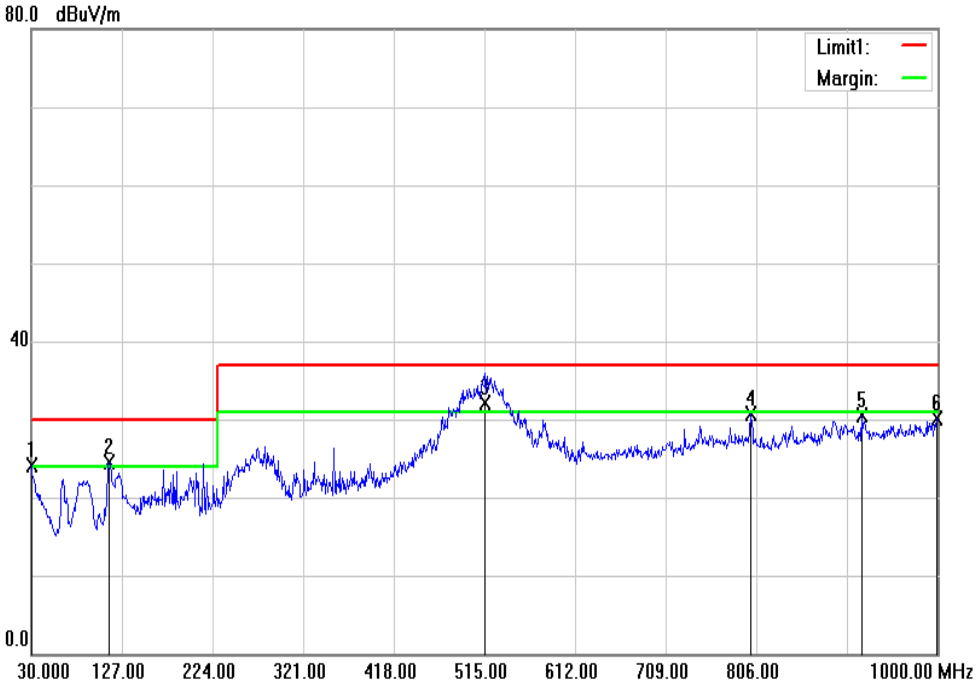
2.5.3 Measurement Data

Below 1GHz

Model no.	HSN-I45C-4	**Test Mode**	Mode 21
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
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	26.35	-2.28	24.07	30.00	-5.93	199	360	QP
2	113.4200	32.58	-8.13	24.45	30.00	-5.55	100	306	QP
3	515.0000	32.44	-0.33	32.11	37.00	-4.89	100	333	QP
4	800.1800	27.04	3.71	30.75	37.00	-6.25	199	0	QP
5	918.5200	25.25	5.19	30.44	37.00	-6.56	199	0	QP
6	999.0300	23.63	6.51	30.14	37.00	-6.86	121	0	QP

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

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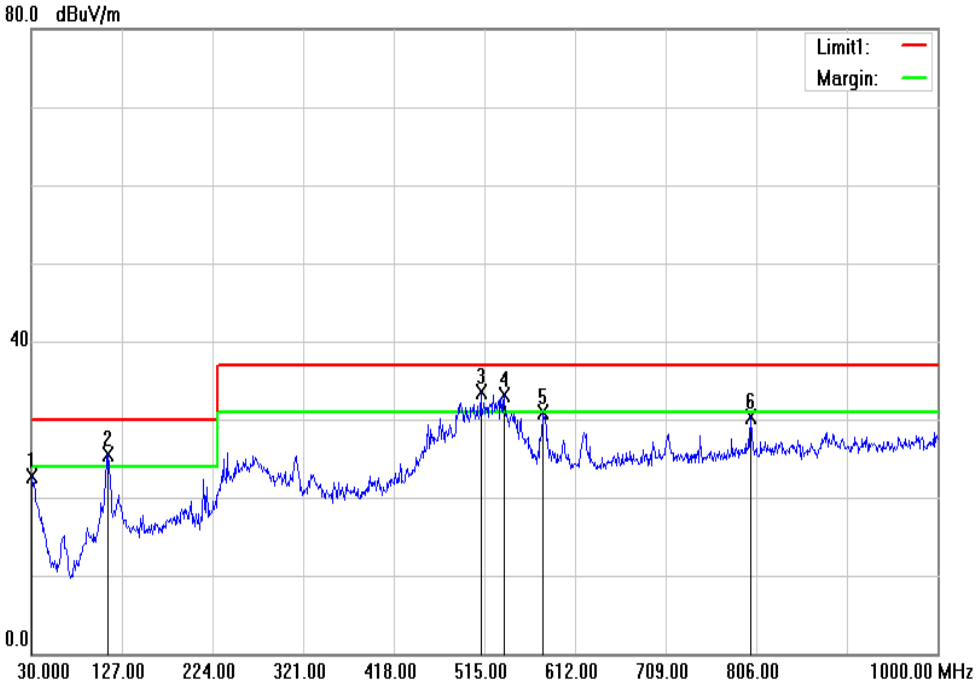
Model no.	HSN-I45C-4	**Test Mode**	Mode 21
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.19	-3.54	22.65	30.00	-7.35	200	168	QP
2	112.4500	34.71	-9.15	25.56	30.00	-4.44	400	289	QP
3	511.1200	36.17	-2.60	33.57	37.00	-3.43	100	276	QP
4	536.3400	34.87	-1.82	33.05	37.00	-3.95	100	298	QP
5	578.0500	31.87	-0.94	30.93	37.00	-6.07	100	0	QP
6	800.1800	28.76	1.55	30.31	37.00	-6.69	300	356	QP

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

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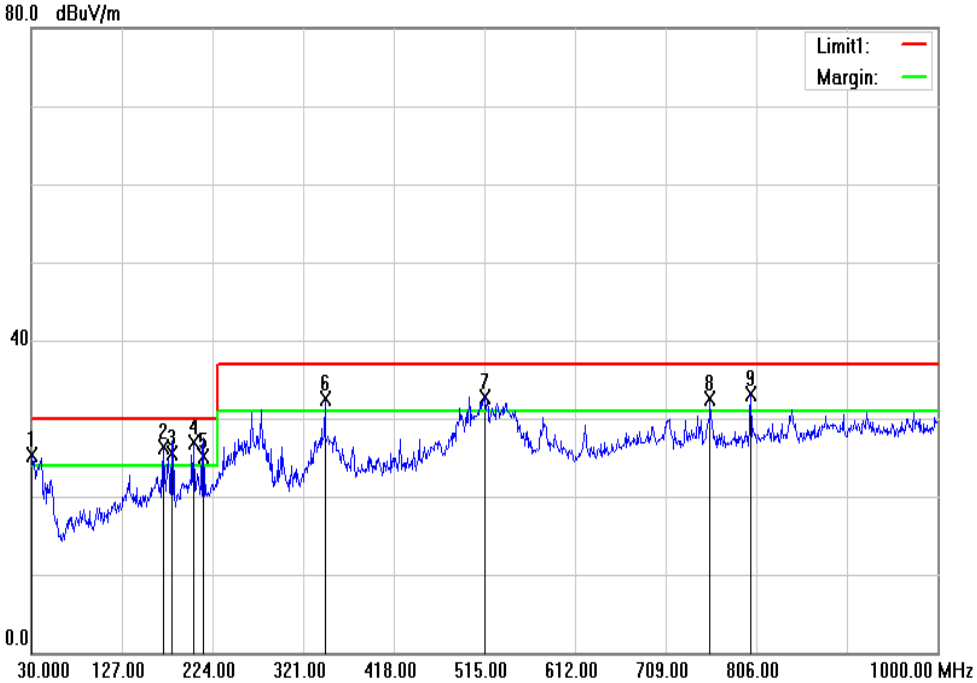
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	28.31	-2.93	25.38	30.00	-4.62	239	360	QP
2	171.6200	35.82	-9.50	26.32	30.00	-3.68	100	106	QP
3	180.3500	35.40	-9.93	25.47	30.00	-4.53	100	155	QP
4	203.6300	36.26	-9.30	26.96	30.00	-3.04	100	339	QP
5	214.3000	34.86	-9.69	25.17	30.00	-4.83	100	0	QP
6	344.2800	36.09	-3.49	32.60	37.00	-4.40	400	0	QP
7	515.9700	33.12	-0.33	32.79	37.00	-4.21	100	321	QP
8	756.5300	29.33	3.12	32.45	37.00	-4.55	199	360	QP
9	800.1800	29.43	3.71	33.14	37.00	-3.86	199	358	QP

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

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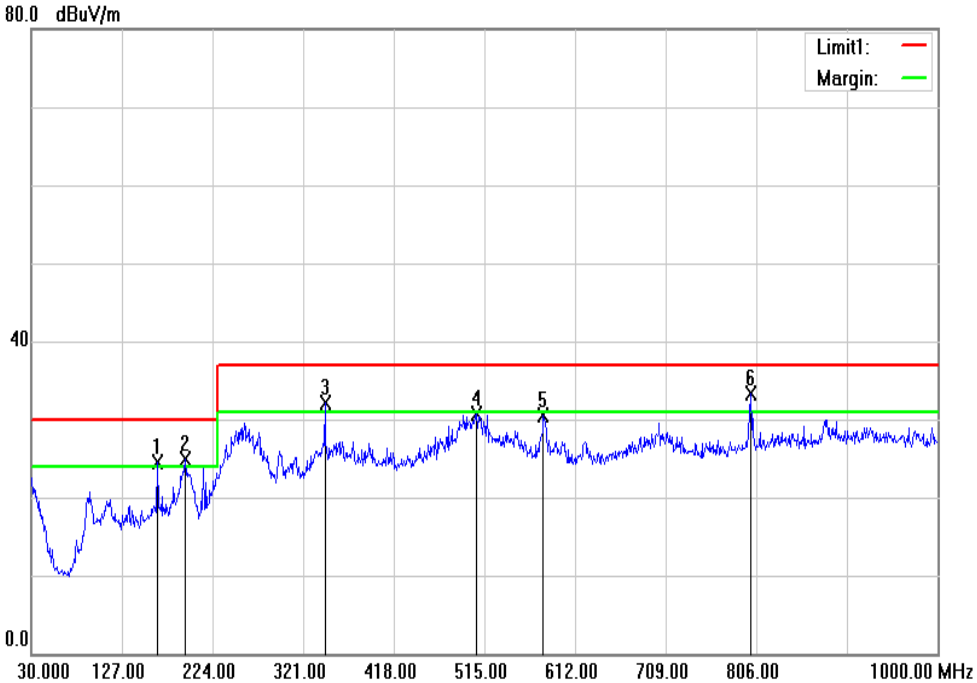
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	164.8300	35.29	-10.78	24.51	30.00	-5.49	399	64	QP
2	194.9000	36.01	-11.15	24.86	30.00	-5.14	399	0	QP
3	344.2800	37.28	-5.19	32.09	37.00	-4.91	300	110	QP
4	506.2700	33.47	-2.69	30.78	37.00	-6.22	200	286	QP
5	578.0500	31.37	-0.94	30.43	37.00	-6.57	100	0	QP
6	800.1800	31.84	1.55	33.39	37.00	-3.61	100	360	QP

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

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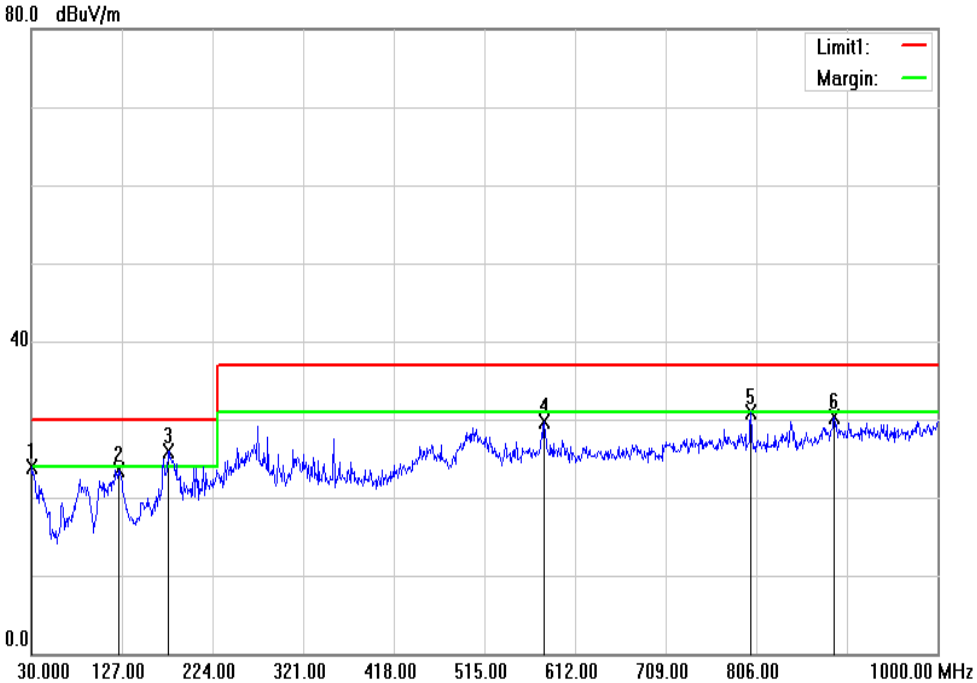
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.91	-2.93	23.98	30.00	-6.02	200	311	QP
2	123.1200	31.35	-7.87	23.48	30.00	-6.52	100	47	QP
3	176.4700	35.74	-9.74	26.00	30.00	-4.00	200	147	QP
4	579.0200	28.65	1.11	29.76	37.00	-7.24	300	359	QP
5	800.1800	27.17	3.71	30.88	37.00	-6.12	200	0	QP
6	889.4200	25.28	4.99	30.27	37.00	-6.73	203	360	QP

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

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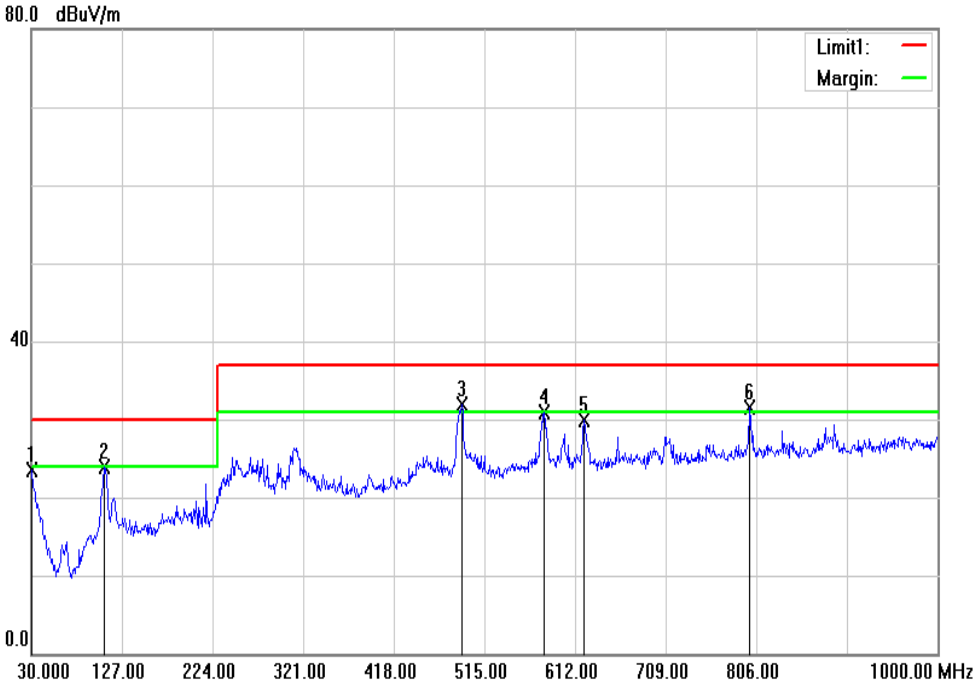
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.59	-3.16	23.43	30.00	-6.57	138	0	QP
2	108.5700	33.37	-9.52	23.85	30.00	-6.15	400	290	QP
3	490.7500	34.70	-2.82	31.88	37.00	-5.12	100	0	QP
4	579.0200	31.77	-0.94	30.83	37.00	-6.17	100	0	QP
5	621.7000	30.52	-0.63	29.89	37.00	-7.11	100	360	QP
6	798.2400	30.03	1.51	31.54	37.00	-5.46	100	360	QP

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

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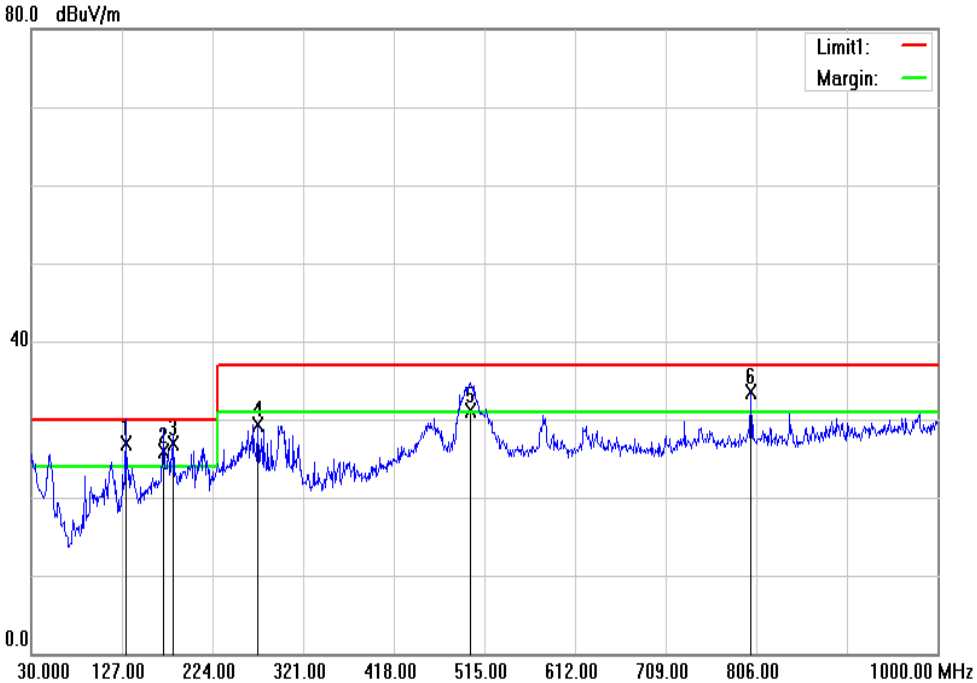
Model no.	HSN-I45C-4	**Test Mode**	Mode 34
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	130.8800	34.89	-7.95	26.94	30.00	-3.06	100	103	QP
2	171.6200	35.48	-9.50	25.98	30.00	-4.02	100	360	QP
3	182.2900	36.92	-9.96	26.96	30.00	-3.04	102	360	QP
4	272.5000	34.61	-5.22	29.39	37.00	-7.61	100	336	QP
5	500.4500	31.59	-0.47	31.12	37.00	-5.88	300	0	QP
6	800.1800	29.85	3.71	33.56	37.00	-3.44	199	332	QP

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

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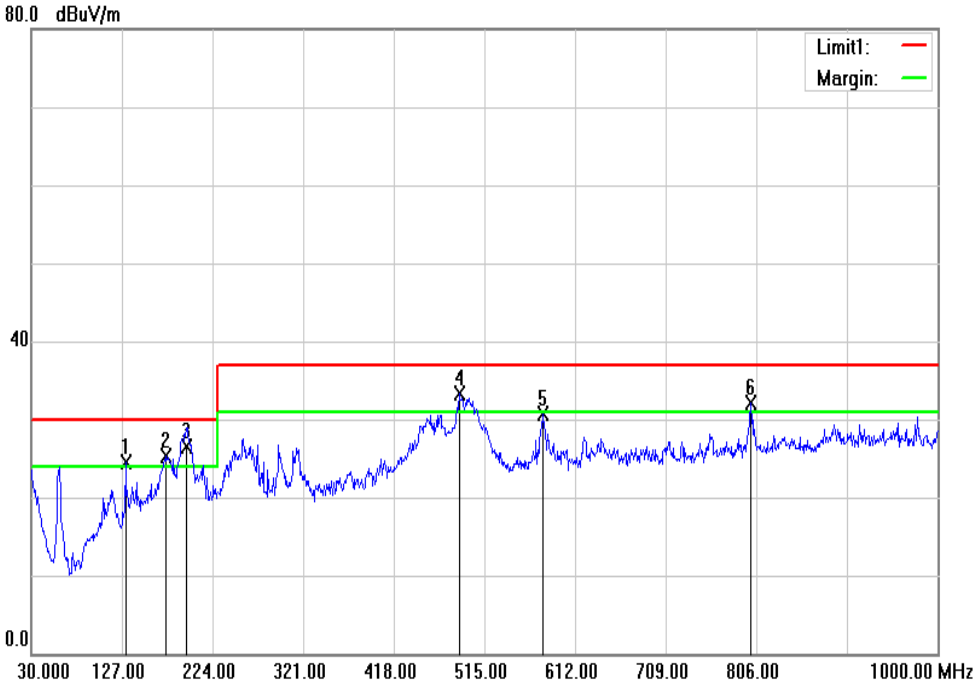
Model no.	HSN-I45C-4	**Test Mode**	Mode 34
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	130.8800	33.54	-8.99	24.55	30.00	-5.45	400	115	QP
2	174.5300	36.51	-11.20	25.31	30.00	-4.69	400	0	QP
3	195.8700	37.62	-11.14	26.48	30.00	-3.52	400	211	QP
4	487.8400	36.07	-2.77	33.30	37.00	-3.70	200	30	QP
5	577.0800	31.65	-0.95	30.70	37.00	-6.30	100	335	QP
6	800.1800	30.51	1.55	32.06	37.00	-4.94	100	335	QP

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

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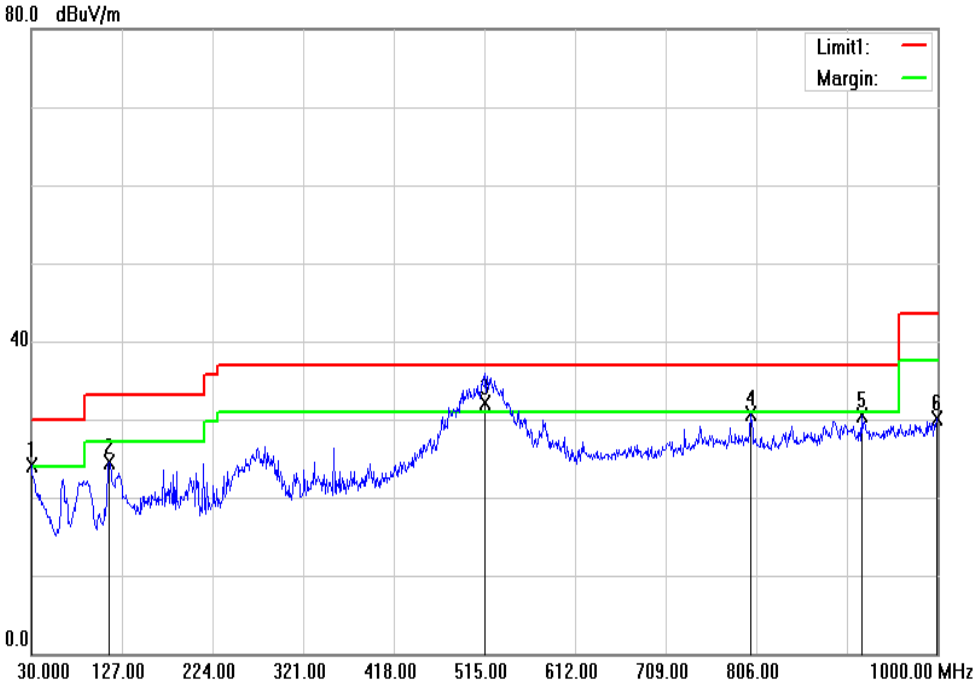
Model no.	HSN-I45C-4	Test Mode	Mode 21
Environmental Conditions	24℃, 56% RH	Tested Date	2021/09/12
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.35	-2.28	24.07	30.00	-5.93	199	360	QP
2	113.4200	32.58	-8.13	24.45	33.10	-8.65	100	306	QP
3	515.0000	32.44	-0.33	32.11	37.00	-4.89	100	333	QP
4	800.1800	27.04	3.71	30.75	37.00	-6.25	199	0	QP
5	918.5200	25.25	5.19	30.44	37.00	-6.56	199	0	QP
6	999.0300	23.63	6.51	30.14	43.50	-13.36	121	0	QP

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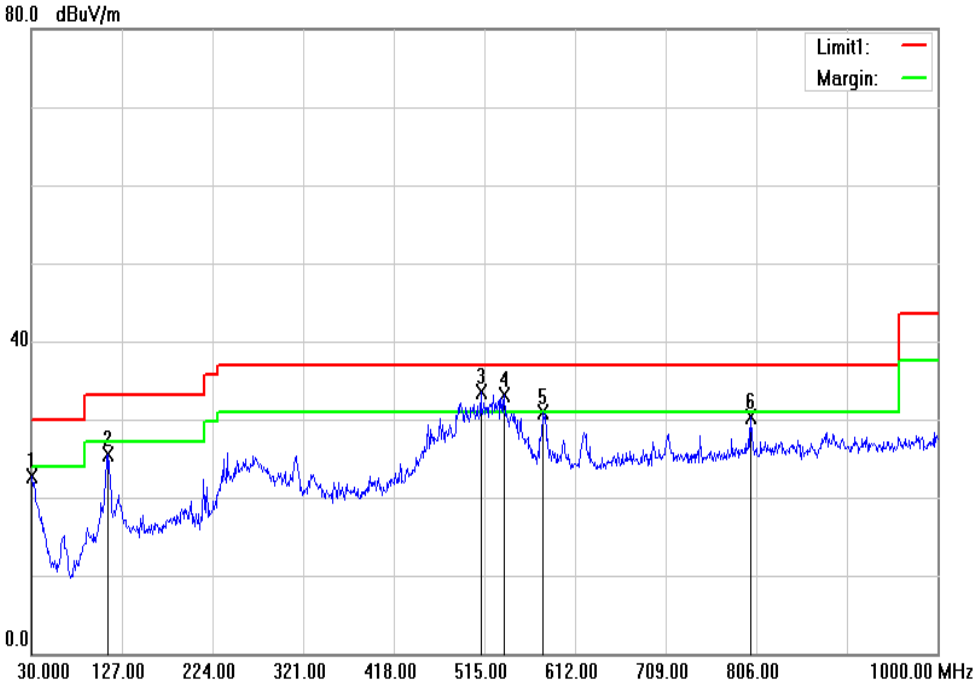
Model no.	HSN-I45C-4	**Test Mode**	Mode 21
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.19	-3.54	22.65	30.00	-7.35	200	168	QP
2	112.4500	34.71	-9.15	25.56	33.10	-7.54	400	289	QP
3	511.1200	36.17	-2.60	33.57	37.00	-3.43	100	276	QP
4	536.3400	34.87	-1.82	33.05	37.00	-3.95	100	298	QP
5	578.0500	31.87	-0.94	30.93	37.00	-6.07	100	0	QP
6	800.1800	28.76	1.55	30.31	37.00	-6.69	300	356	QP

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

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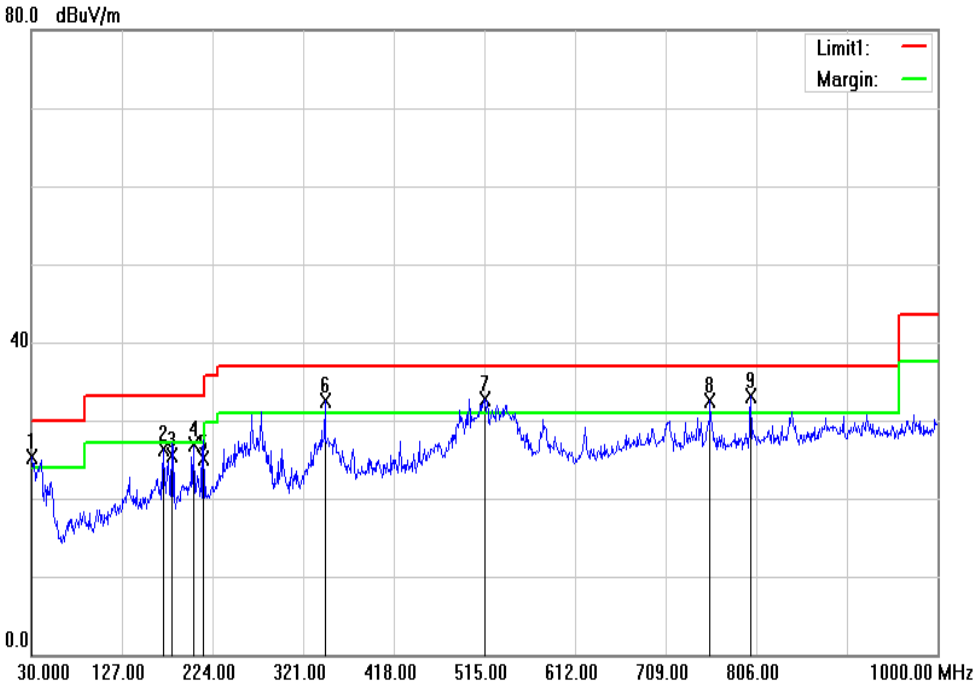
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	28.31	-2.93	25.38	30.00	-4.62	239	360	QP
2	171.6200	35.82	-9.50	26.32	33.10	-6.78	100	106	QP
3	180.3500	35.40	-9.93	25.47	33.10	-7.63	100	155	QP
4	203.6300	36.26	-9.30	26.96	33.10	-6.14	100	339	QP
5	214.3000	34.86	-9.69	25.17	33.10	-7.93	100	0	QP
6	344.2800	36.09	-3.49	32.60	37.00	-4.40	400	0	QP
7	515.9700	33.12	-0.33	32.79	37.00	-4.21	100	321	QP
8	756.5300	29.33	3.12	32.45	37.00	-4.55	199	360	QP
9	800.1800	29.43	3.71	33.14	37.00	-3.86	199	358	QP

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

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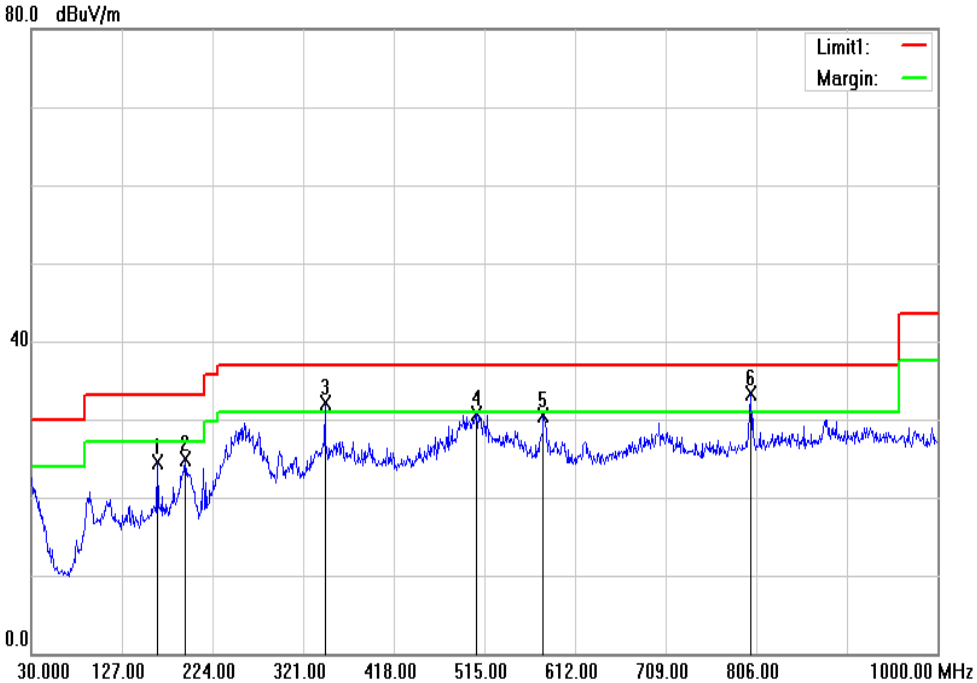
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	164.8300	35.29	-10.78	24.51	33.10	-8.59	399	64	QP
2	194.9000	36.01	-11.15	24.86	33.10	-8.24	399	0	QP
3	344.2800	37.28	-5.19	32.09	37.00	-4.91	300	110	QP
4	506.2700	33.47	-2.69	30.78	37.00	-6.22	200	286	QP
5	578.0500	31.37	-0.94	30.43	37.00	-6.57	100	0	QP
6	800.1800	31.84	1.55	33.39	37.00	-3.61	100	360	QP

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

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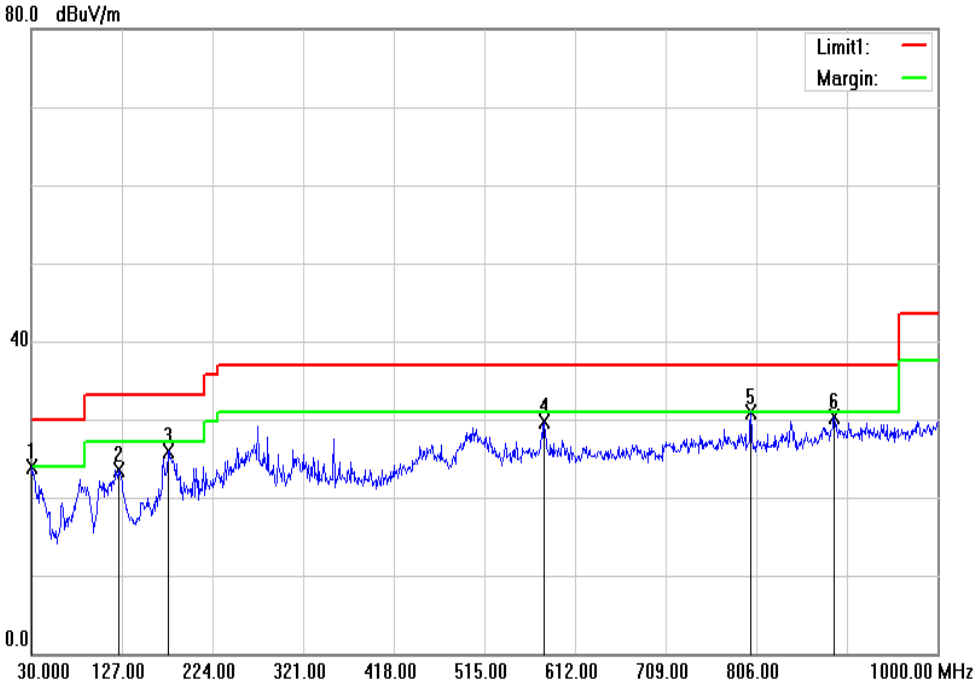
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.91	-2.93	23.98	30.00	-6.02	200	311	QP
2	123.1200	31.35	-7.87	23.48	33.10	-9.62	100	47	QP
3	176.4700	35.74	-9.74	26.00	33.10	-7.10	200	147	QP
4	579.0200	28.65	1.11	29.76	37.00	-7.24	300	359	QP
5	800.1800	27.17	3.71	30.88	37.00	-6.12	200	0	QP
6	889.4200	25.28	4.99	30.27	37.00	-6.73	203	360	QP

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

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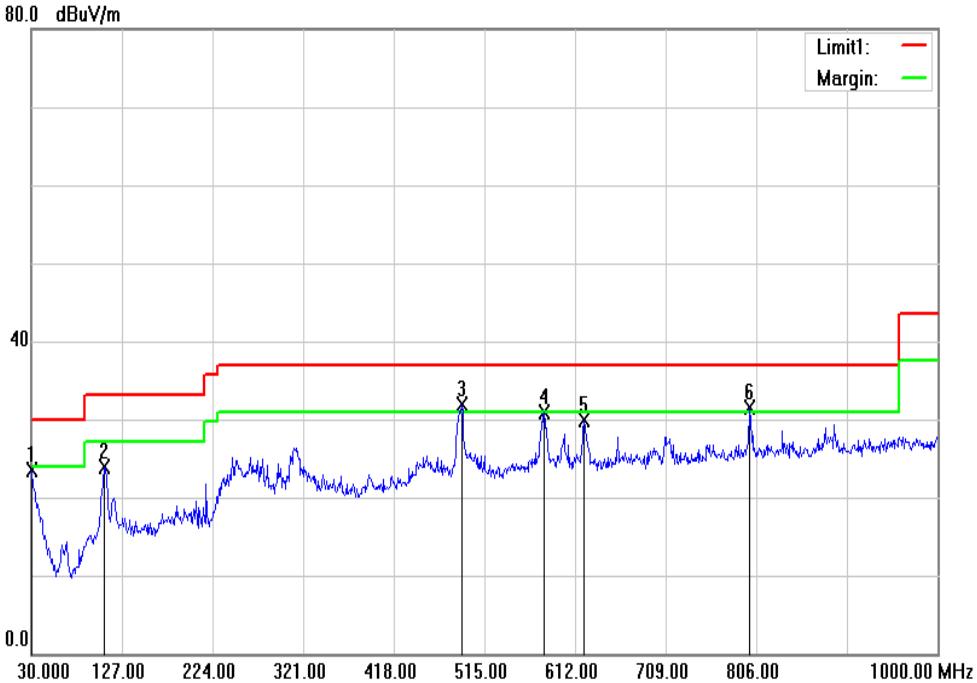
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.59	-3.16	23.43	30.00	-6.57	138	0	QP
2	108.5700	33.37	-9.52	23.85	33.10	-9.25	400	290	QP
3	490.7500	34.70	-2.82	31.88	37.00	-5.12	100	0	QP
4	579.0200	31.77	-0.94	30.83	37.00	-6.17	100	0	QP
5	621.7000	30.52	-0.63	29.89	37.00	-7.11	100	360	QP
6	798.2400	30.03	1.51	31.54	37.00	-5.46	100	360	QP

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

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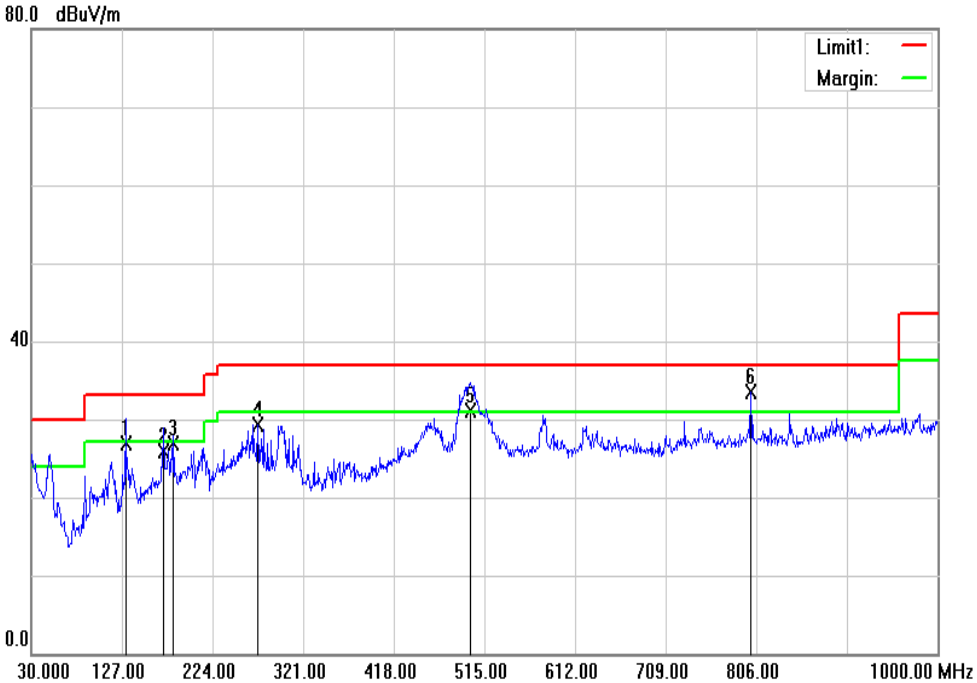
Model no.	HSN-I45C-4	Test Mode	Mode 34
Environmental Conditions	24℃, 56% RH	Tested Date	2021/09/12
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	130.8800	34.89	-7.95	26.94	33.10	-6.16	100	103	QP
2	171.6200	35.48	-9.50	25.98	33.10	-7.12	100	360	QP
3	182.2900	36.92	-9.96	26.96	33.10	-6.14	102	360	QP
4	272.5000	34.61	-5.22	29.39	37.00	-7.61	100	336	QP
5	500.4500	31.59	-0.47	31.12	37.00	-5.88	300	0	QP
6	800.1800	29.85	3.71	33.56	37.00	-3.44	199	332	QP

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

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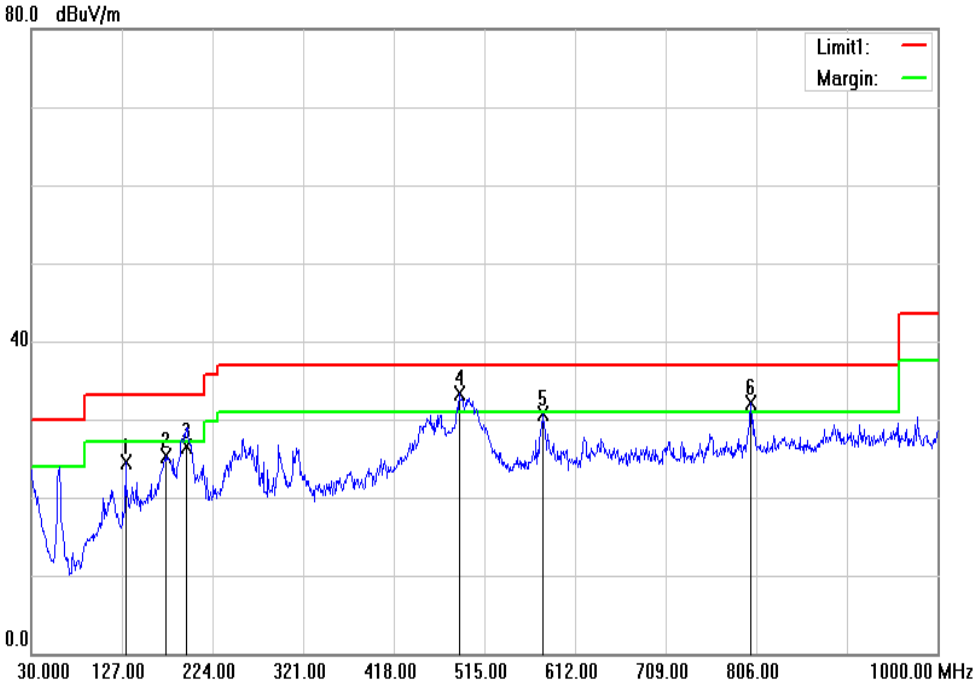
Model no.	HSN-I45C-4	**Test Mode**	Mode 34
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	130.8800	33.54	-8.99	24.55	33.10	-8.55	400	115	QP
2	174.5300	36.51	-11.20	25.31	33.10	-7.79	400	0	QP
3	195.8700	37.62	-11.14	26.48	33.10	-6.62	400	211	QP
4	487.8400	36.07	-2.77	33.30	37.00	-3.70	200	30	QP
5	577.0800	31.65	-0.95	30.70	37.00	-6.30	100	335	QP
6	800.1800	30.51	1.55	32.06	37.00	-4.94	100	335	QP

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

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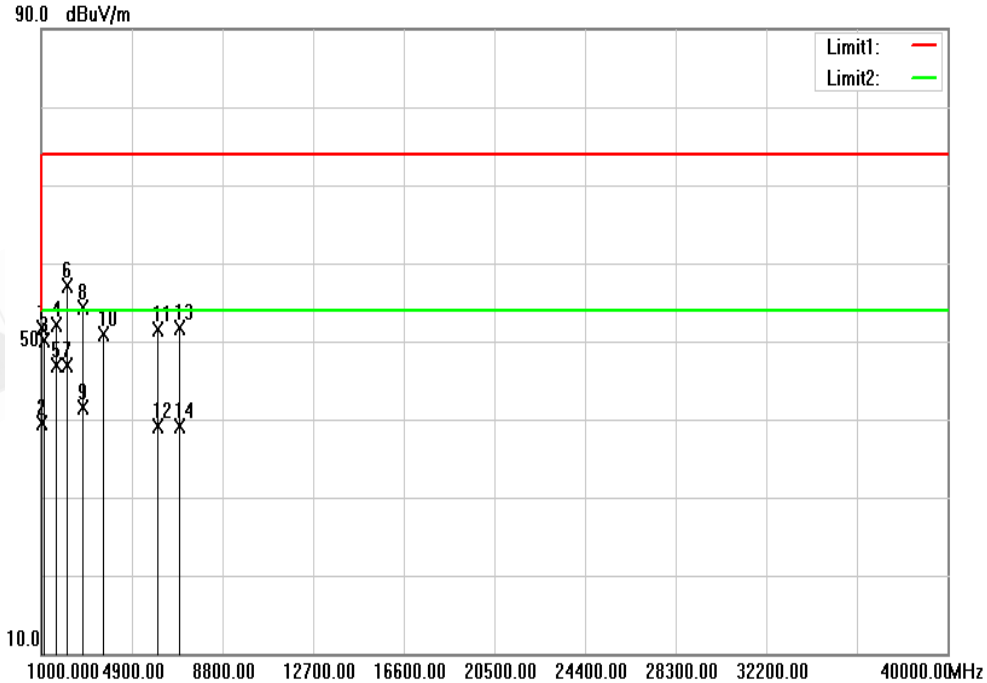
Above 1GHz

Model no.	HSN-I45C-4	**Test Mode**	Mode 21
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
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	70.11	-18.45	51.66	74.00	-22.34	200	252	peak
2	1025.500	57.96	-18.45	39.51	54.00	-14.49	200	252	AVG
3	1110.500	68.41	-18.37	50.04	74.00	-23.96	300	360	peak
4	1603.500	69.47	-17.28	52.19	74.00	-21.81	100	249	peak
5	1603.500	64.19	-17.28	46.91	54.00	-7.09	100	249	AVG
6	2088.000	70.04	-12.90	57.14	74.00	-16.86	100	256	peak
7	2088.000	59.88	-12.90	46.98	54.00	-7.02	100	256	AVG
8	2759.500	67.00	-12.63	54.37	74.00	-19.63	300	360	peak
9	2759.500	54.04	-12.63	41.41	54.00	-12.59	300	360	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
10	3643.500	61.94	-11.04	50.90	74.00	-23.10	200	271	peak
11	6023.500	55.43	-3.87	51.56	74.00	-22.44	300	328	peak
12	6023.500	42.99	-3.87	39.12	54.00	-14.88	300	328	AVG
13	6958.500	54.88	-3.14	51.74	74.00	-22.26	200	278	peak
14	6958.500	42.22	-3.14	39.08	54.00	-14.92	200	278	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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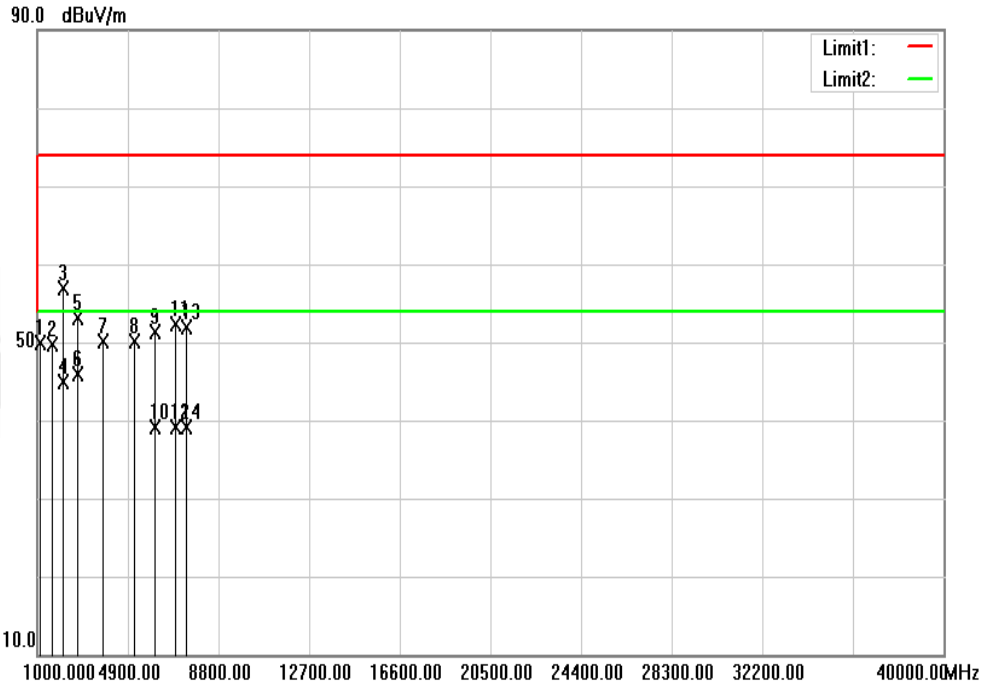
Model no.	HSN-I45C-4	**Test Mode**	Mode 21
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	68.37	-18.37	50.00	74.00	-24.00	100	276	peak
2	1603.500	67.02	-17.28	49.74	74.00	-24.26	100	276	peak
3	2088.000	69.85	-12.90	56.95	74.00	-17.05	100	200	peak
4	2088.000	57.87	-12.90	44.97	54.00	-9.03	100	200	AVG
5	2751.000	65.75	-12.68	53.07	74.00	-20.93	100	187	peak
6	2751.000	58.49	-12.68	45.81	54.00	-8.19	100	187	AVG
7	3779.500	60.91	-10.78	50.13	74.00	-23.87	200	186	peak
8	5156.500	57.29	-7.11	50.18	74.00	-23.82	200	295	peak
9	6032.000	55.29	-3.95	51.34	74.00	-22.66	100	341	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	6032.000	43.09	-3.95	39.14	54.00	-14.86	100	341	AVG
11	6967.000	55.42	-3.12	52.30	74.00	-21.70	200	358	peak
12	6967.000	42.19	-3.12	39.07	54.00	-14.93	200	358	AVG
13	7383.500	54.72	-2.90	51.82	74.00	-22.18	100	32	peak
14	7383.500	42.07	-2.90	39.17	54.00	-14.83	100	32	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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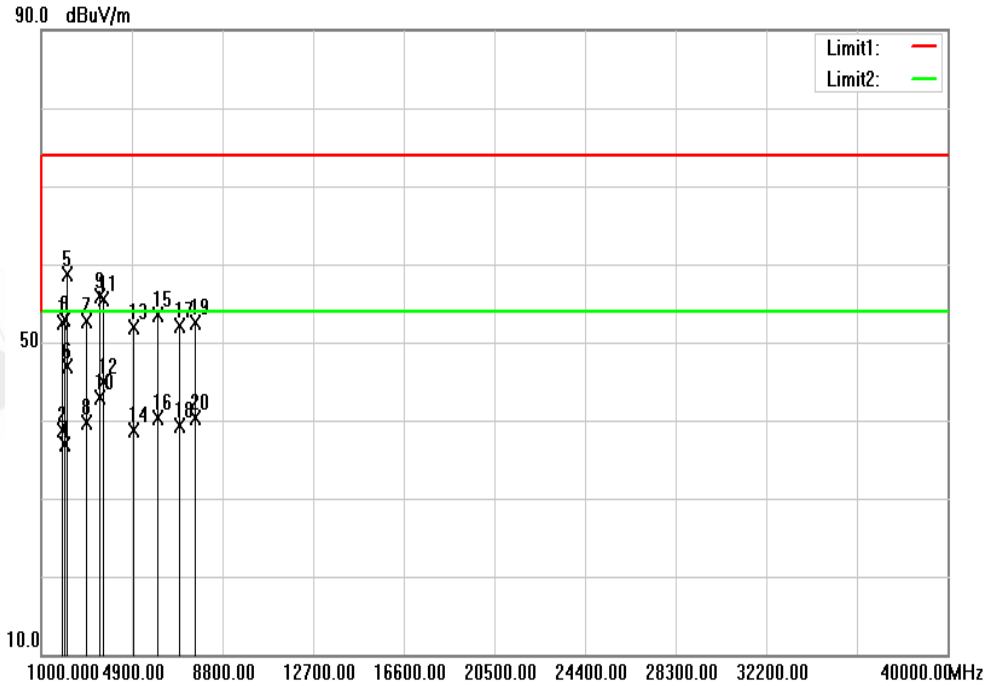
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	1867.000	67.52	-15.08	52.44	74.00	-21.56	100	260	peak
2	1867.000	53.83	-15.08	38.75	54.00	-15.25	100	260	AVG
3	2003.000	66.37	-13.44	52.93	74.00	-21.07	200	239	peak
4	2003.000	50.38	-13.44	36.94	54.00	-17.06	200	239	AVG
5	2088.000	71.70	-12.90	58.80	74.00	-15.20	100	276	peak
6	2088.000	59.87	-12.90	46.97	54.00	-7.03	100	276	AVG
7	2938.000	64.86	-12.21	52.65	74.00	-21.35	200	192	peak
8	2938.000	51.82	-12.21	39.61	54.00	-14.39	200	192	AVG
9	3473.500	67.69	-11.71	55.98	74.00	-18.02	100	206	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	3473.500	54.66	-11.71	42.95	54.00	-11.05	100	206	AVG
11	3643.500	66.51	-11.04	55.47	74.00	-18.53	200	278	peak
12	3643.500	55.85	-11.04	44.81	54.00	-9.19	200	278	AVG
13	4978.000	59.57	-7.64	51.93	74.00	-22.07	100	183	peak
14	4978.000	46.30	-7.64	38.66	54.00	-15.34	100	183	AVG
15	5998.000	57.05	-3.64	53.41	74.00	-20.59	300	198	peak
16	5998.000	44.03	-3.64	40.39	54.00	-13.61	300	198	AVG
17	6941.500	55.38	-3.22	52.16	74.00	-21.84	113	360	peak
18	6941.500	42.58	-3.22	39.36	54.00	-14.64	113	360	AVG
19	7613.000	55.27	-2.86	52.41	74.00	-21.59	100	66	peak
20	7613.000	43.10	-2.86	40.24	54.00	-13.76	100	66	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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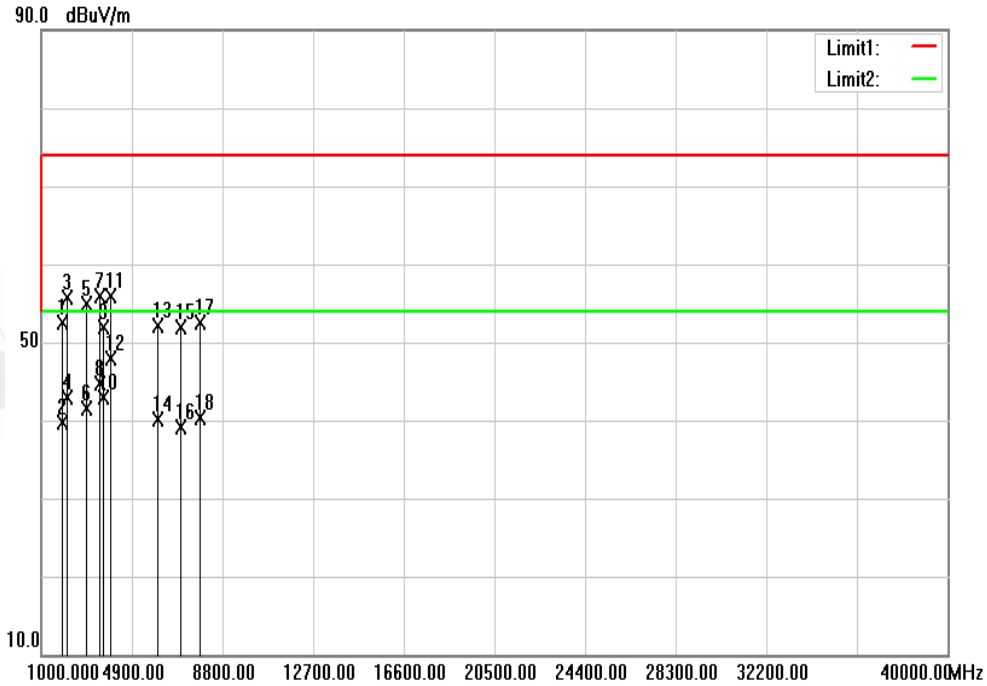
Model no.	HSN-I45C-4	**Test Mode**	Mode 32
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	1867.000	67.54	-15.08	52.46	74.00	-21.54	100	181	peak
2	1867.000	54.86	-15.08	39.78	54.00	-14.22	100	181	AVG
3	2088.000	68.61	-12.90	55.71	74.00	-18.29	100	260	peak
4	2088.000	55.79	-12.90	42.89	54.00	-11.11	100	260	AVG
5	2938.000	67.04	-12.21	54.83	74.00	-19.17	200	192	peak
6	2938.000	53.77	-12.21	41.56	54.00	-12.44	200	192	AVG
7	3473.500	67.56	-11.71	55.85	74.00	-18.15	200	185	peak
8	3473.500	56.49	-11.71	44.78	54.00	-9.22	200	185	AVG
9	3643.500	62.86	-11.04	51.82	74.00	-22.18	100	181	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	53.95	-11.04	42.91	54.00	-11.09	100	181	AVG
11	4000.500	66.65	-10.84	55.81	74.00	-18.19	100	181	peak
12	4000.500	58.67	-10.84	47.83	54.00	-6.17	100	181	AVG
13	5989.500	55.81	-3.79	52.02	74.00	-21.98	300	207	peak
14	5989.500	43.90	-3.79	40.11	54.00	-13.89	300	207	AVG
15	6975.500	55.01	-3.09	51.92	74.00	-22.08	249	360	peak
16	6975.500	42.17	-3.09	39.08	54.00	-14.92	249	360	AVG
17	7800.000	55.26	-2.77	52.49	74.00	-21.51	196	0	peak
18	7800.000	43.17	-2.77	40.40	54.00	-13.60	196	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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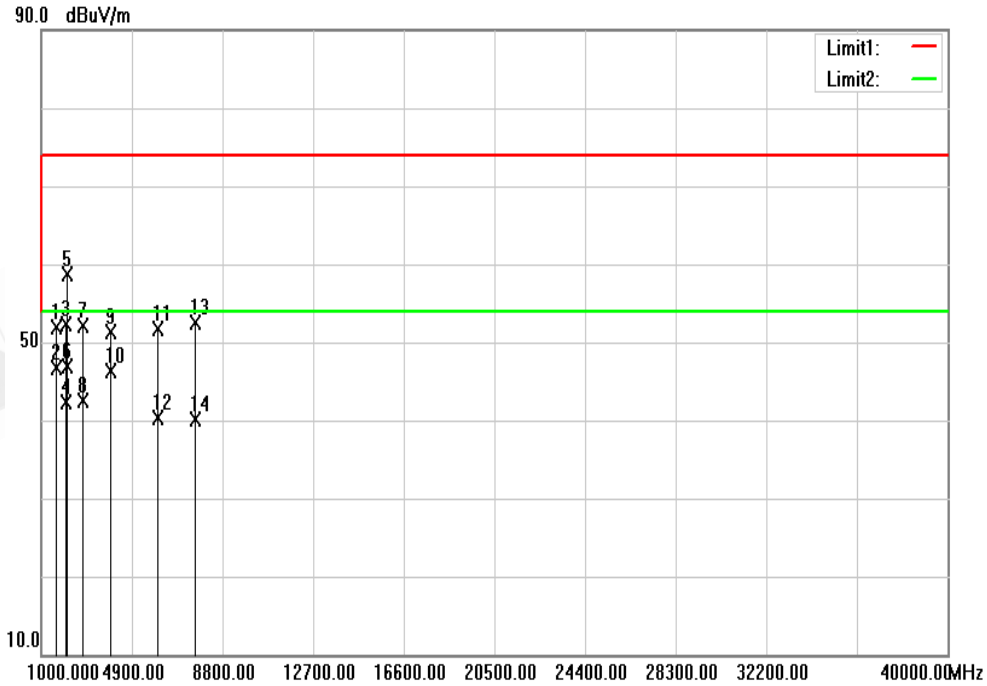
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	69.19	-17.28	51.91	74.00	-22.09	100	247	peak
2	1603.500	64.03	-17.28	46.75	54.00	-7.25	100	247	AVG
3	2045.500	65.39	-13.17	52.22	74.00	-21.78	100	309	peak
4	2045.500	55.51	-13.17	42.34	54.00	-11.66	100	309	AVG
5	2088.000	71.68	-12.90	58.78	74.00	-15.22	100	194	peak
6	2088.000	59.85	-12.90	46.95	54.00	-7.05	100	194	AVG
7	2759.500	64.82	-12.63	52.19	74.00	-21.81	200	260	peak
8	2759.500	55.08	-12.63	42.45	54.00	-11.55	200	260	AVG
9	4000.500	62.16	-10.84	51.32	74.00	-22.68	100	178	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	4000.500	57.17	-10.84	46.33	54.00	-7.67	100	178	AVG
11	6006.500	55.34	-3.69	51.65	74.00	-22.35	200	0	peak
12	6006.500	44.00	-3.69	40.31	54.00	-13.69	200	0	AVG
13	7621.500	55.42	-2.90	52.52	74.00	-21.48	300	141	peak
14	7621.500	42.97	-2.90	40.07	54.00	-13.93	300	141	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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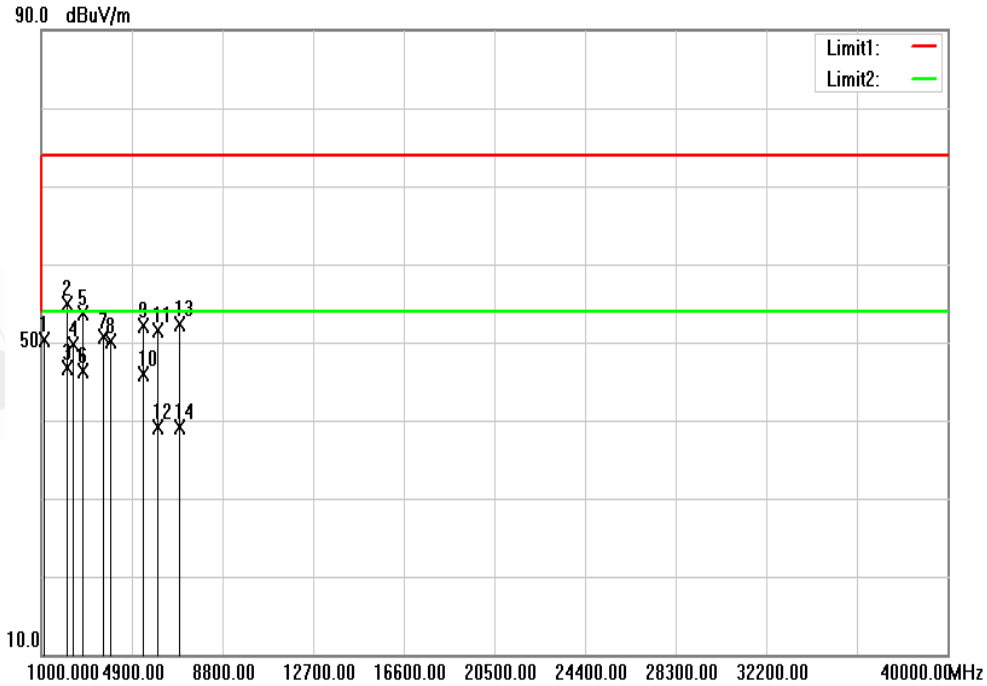
Model no.	HSN-I45C-4	**Test Mode**	Mode 33
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	68.77	-18.37	50.40	74.00	-23.60	200	271	peak
2	2088.000	67.85	-12.90	54.95	74.00	-19.05	200	209	peak
3	2088.000	59.61	-12.90	46.71	54.00	-7.29	200	209	AVG
4	2360.000	63.32	-13.52	49.80	74.00	-24.20	100	211	peak
5	2759.500	66.38	-12.63	53.75	74.00	-20.25	100	211	peak
6	2759.500	58.94	-12.63	46.31	54.00	-7.69	100	211	AVG
7	3643.500	61.72	-11.04	50.68	74.00	-23.32	200	186	peak
8	4000.500	60.86	-10.84	50.02	74.00	-23.98	100	180	peak
9	5403.000	58.88	-6.81	52.07	74.00	-21.93	100	180	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	5403.000	52.68	-6.81	45.87	54.00	-8.13	100	180	AVG
11	6023.500	55.30	-3.87	51.43	74.00	-22.57	200	109	peak
12	6023.500	43.00	-3.87	39.13	54.00	-14.87	200	109	AVG
13	6924.500	55.58	-3.28	52.30	74.00	-21.70	200	359	peak
14	6924.500	42.36	-3.28	39.08	54.00	-14.92	200	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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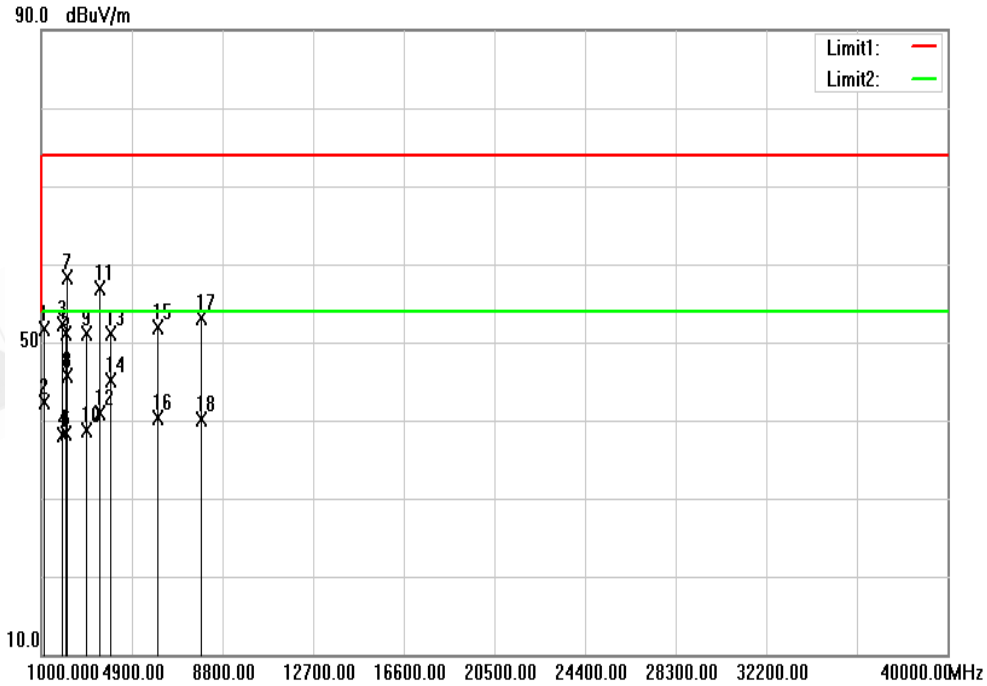
Model no.	HSN-I45C-4	**Test Mode**	Mode 34
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	70.17	-18.37	51.80	74.00	-22.20	100	236	peak
2	1110.500	60.64	-18.37	42.27	54.00	-11.73	100	236	AVG
3	1867.000	67.45	-15.08	52.37	74.00	-21.63	100	276	peak
4	1867.000	53.27	-15.08	38.19	54.00	-15.81	100	276	AVG
5	2045.500	64.23	-13.17	51.06	74.00	-22.94	200	241	peak
6	2045.500	51.52	-13.17	38.35	54.00	-15.65	200	241	AVG
7	2088.000	71.19	-12.90	58.29	74.00	-15.71	100	189	peak
8	2088.000	58.51	-12.90	45.61	54.00	-8.39	100	189	AVG
9	2929.500	63.29	-12.19	51.10	74.00	-22.90	200	226	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	50.83	-12.19	38.64	54.00	-15.36	200	226	AVG
11	3465.000	68.65	-11.72	56.93	74.00	-17.07	200	203	peak
12	3465.000	52.66	-11.72	40.94	54.00	-13.06	200	203	AVG
13	4000.500	61.96	-10.84	51.12	74.00	-22.88	200	241	peak
14	4000.500	55.95	-10.84	45.11	54.00	-8.89	200	241	AVG
15	5981.000	55.87	-3.93	51.94	74.00	-22.06	300	158	peak
16	5981.000	44.27	-3.93	40.34	54.00	-13.66	300	158	AVG
17	7834.000	55.85	-2.83	53.02	74.00	-20.98	200	84	peak
18	7834.000	42.84	-2.83	40.01	54.00	-13.99	200	84	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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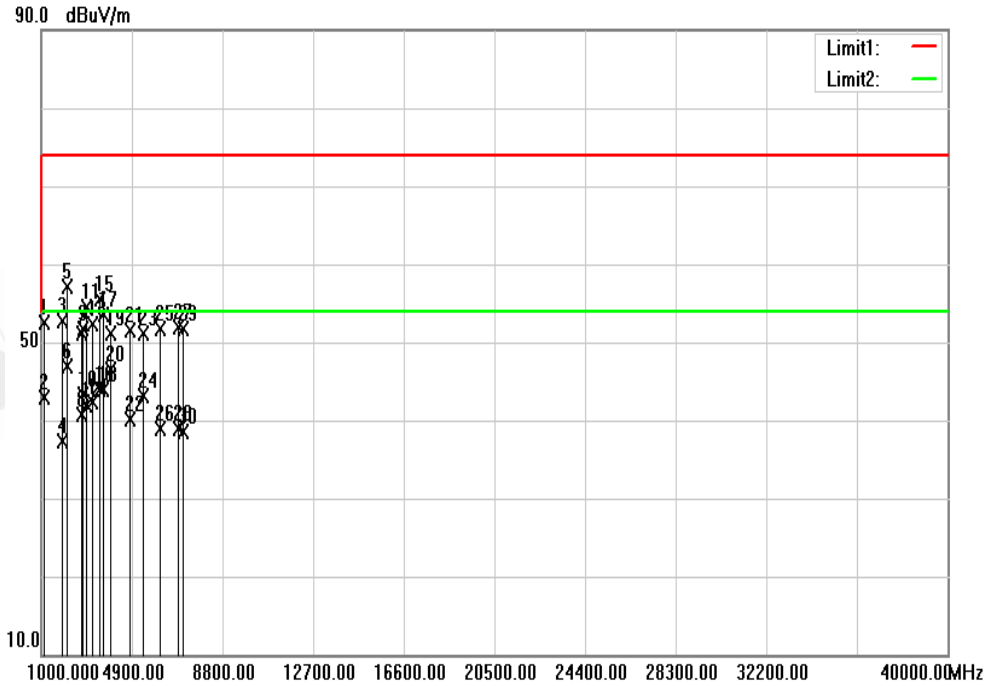
Model no.	HSN-I45C-4	**Test Mode**	Mode 34
Environmental Conditions	24℃, 56% RH	**Tested Date**	2021/09/12
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	7.1GHz	**Upper frequency**	35.5GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**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	70.81	-18.37	52.44	74.00	-21.56	200	267	peak
2	1110.500	61.26	-18.37	42.89	54.00	-11.11	200	267	AVG
3	1867.000	67.72	-15.08	52.64	74.00	-21.36	100	202	peak
4	1867.000	52.40	-15.08	37.32	54.00	-16.68	100	202	AVG
5	2088.000	70.09	-12.90	57.19	74.00	-16.81	200	188	peak
6	2088.000	59.79	-12.90	46.89	54.00	-7.11	200	188	AVG
7	2717.000	63.90	-12.78	51.12	74.00	-22.88	200	188	peak
8	2717.000	53.51	-12.78	40.73	54.00	-13.27	200	188	AVG
9	2759.500	64.35	-12.63	51.72	74.00	-22.28	200	188	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	55.97	-12.63	43.34	54.00	-10.66	200	188	AVG
11	2929.500	66.68	-12.19	54.49	74.00	-19.51	200	220	peak
12	2929.500	54.09	-12.19	41.90	54.00	-12.10	200	220	AVG
13	3201.500	63.92	-11.54	52.38	74.00	-21.62	100	187	peak
14	3201.500	53.93	-11.54	42.39	54.00	-11.61	100	187	AVG
15	3465.000	67.19	-11.72	55.47	74.00	-18.53	200	180	peak
16	3465.000	55.58	-11.72	43.86	54.00	-10.14	200	180	AVG
17	3643.500	64.56	-11.04	53.52	74.00	-20.48	200	180	peak
18	3643.500	54.98	-11.04	43.94	54.00	-10.06	200	180	AVG
19	4000.500	62.02	-10.84	51.18	74.00	-22.82	200	180	peak
20	4000.500	57.27	-10.84	46.43	54.00	-7.57	200	180	AVG
21	4799.500	59.73	-8.25	51.48	74.00	-22.52	100	179	peak
22	4799.500	48.42	-8.25	40.17	54.00	-13.83	100	179	AVG
23	5403.000	57.89	-6.81	51.08	74.00	-22.92	100	179	peak
24	5403.000	49.86	-6.81	43.05	54.00	-10.95	100	179	AVG
25	6091.500	55.98	-4.19	51.79	74.00	-22.21	200	291	peak
26	6091.500	43.00	-4.19	38.81	54.00	-15.19	200	291	AVG
27	6882.000	55.18	-3.27	51.91	74.00	-22.09	198	360	peak
28	6882.000	42.25	-3.27	38.98	54.00	-15.02	198	360	AVG
29	7086.000	54.54	-2.86	51.68	74.00	-22.32	194	360	peak
30	7086.000	41.28	-2.86	38.42	54.00	-15.58	194	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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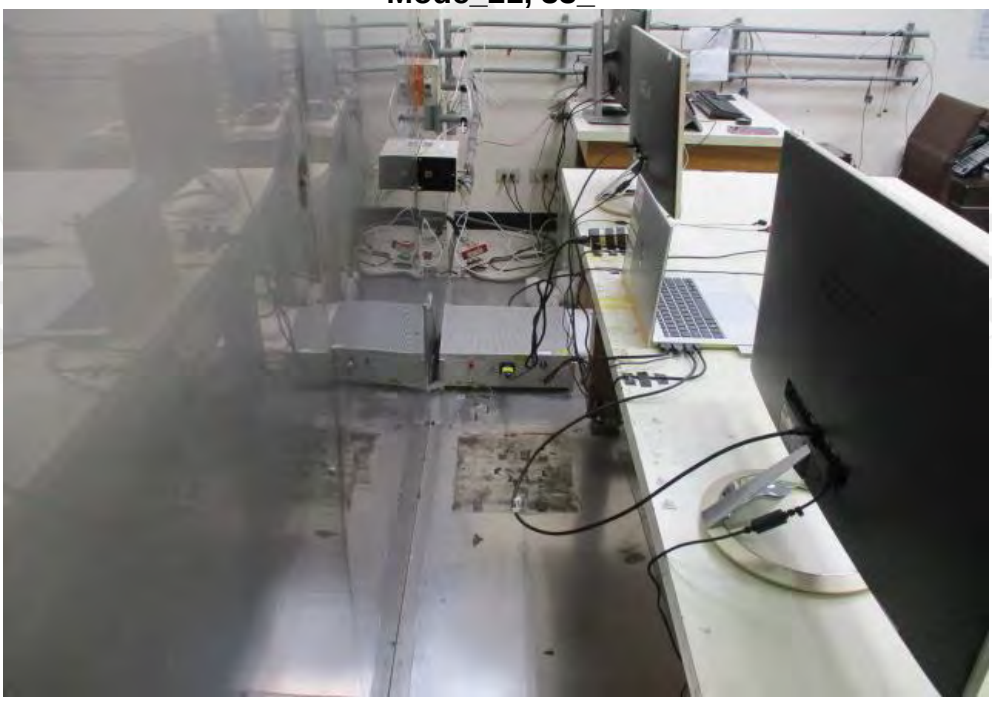
APPENDIX

Photograph of Testing General Set-up

CE Testing Set-up

Model No.: HSN-I45C-4
Mode_21, 33_+

Mode_21, 33_-



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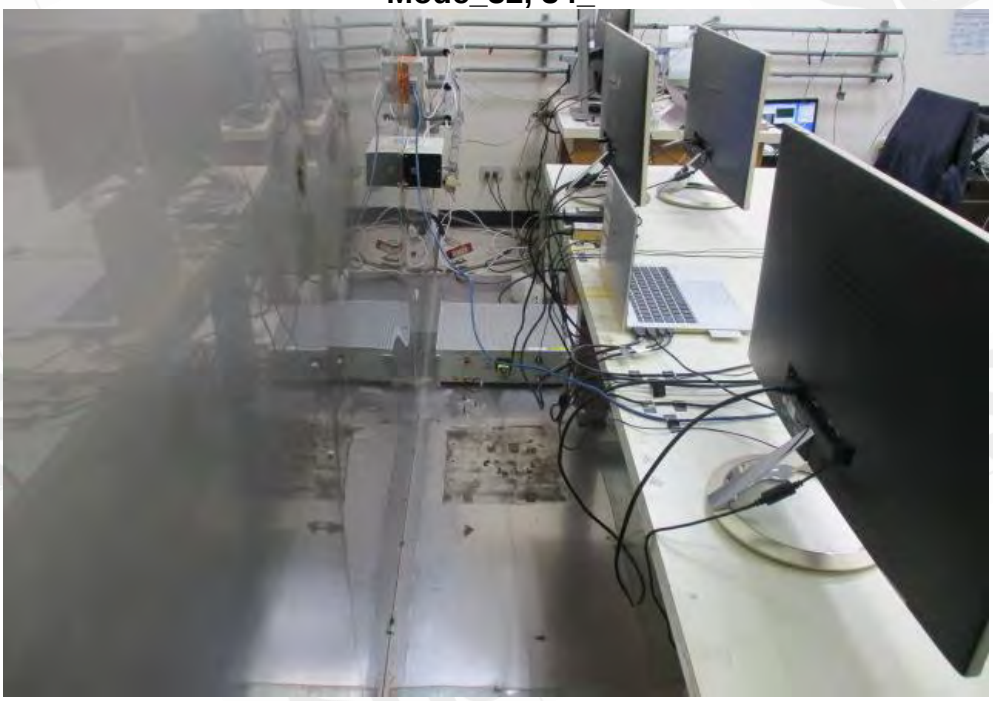
Model No.: HSN-I45C-4

Mode_32, 34_+

Mode_32, 34_-



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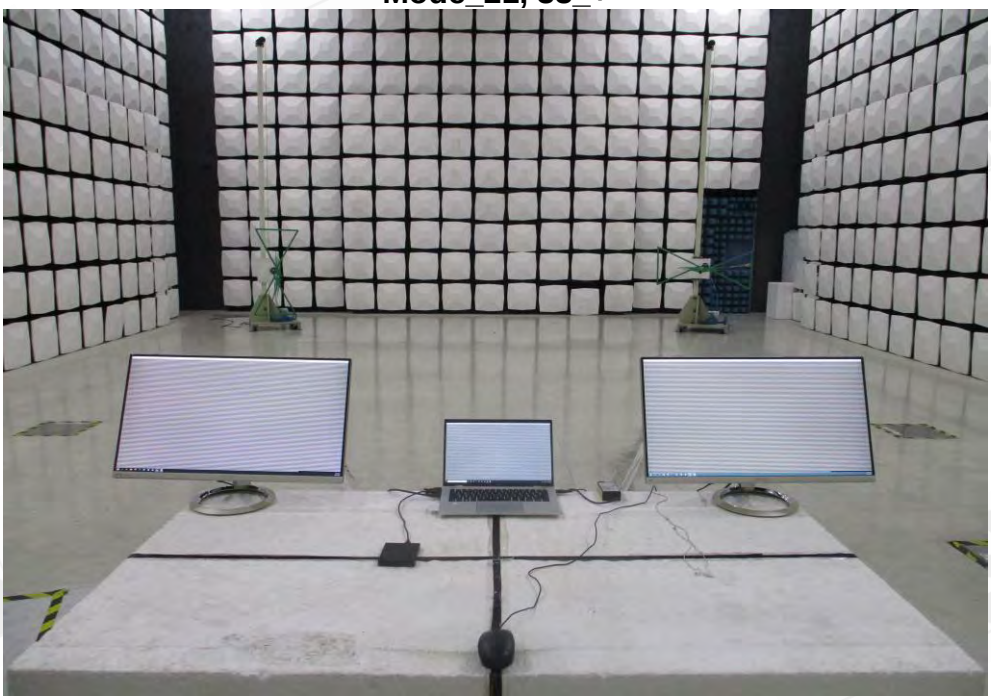
RE Testing Set-up

Below 1GHz

Model No.: HSN-I45C-4

Mode_21, 33_+



Mode_21, 33_-

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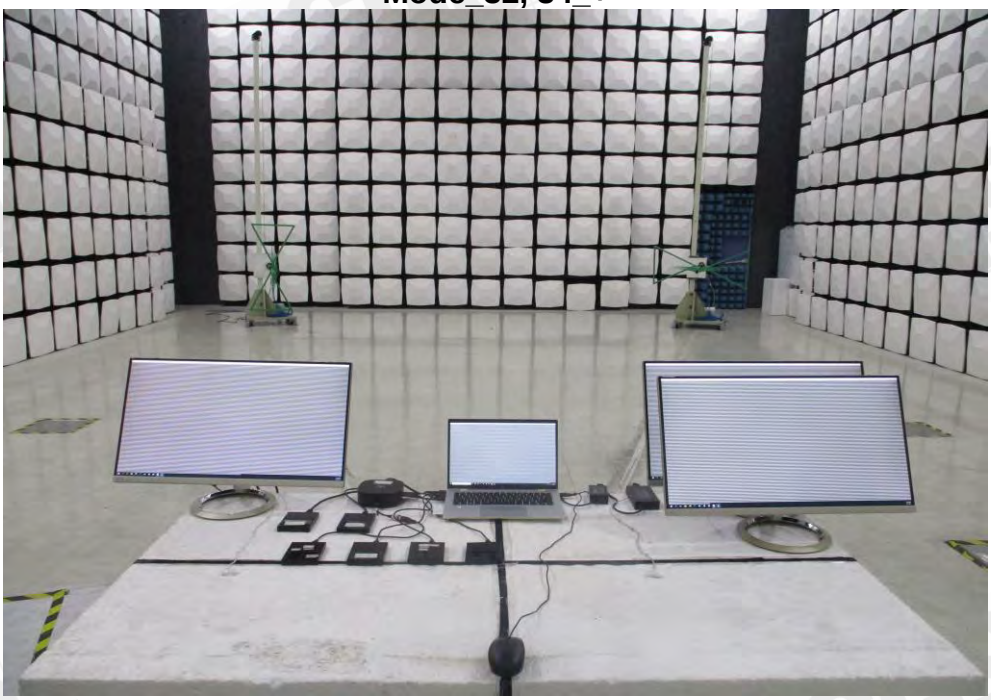
Model No.: HSN-I45C-4

Mode_32, 34_+



Mode_32, 34_-

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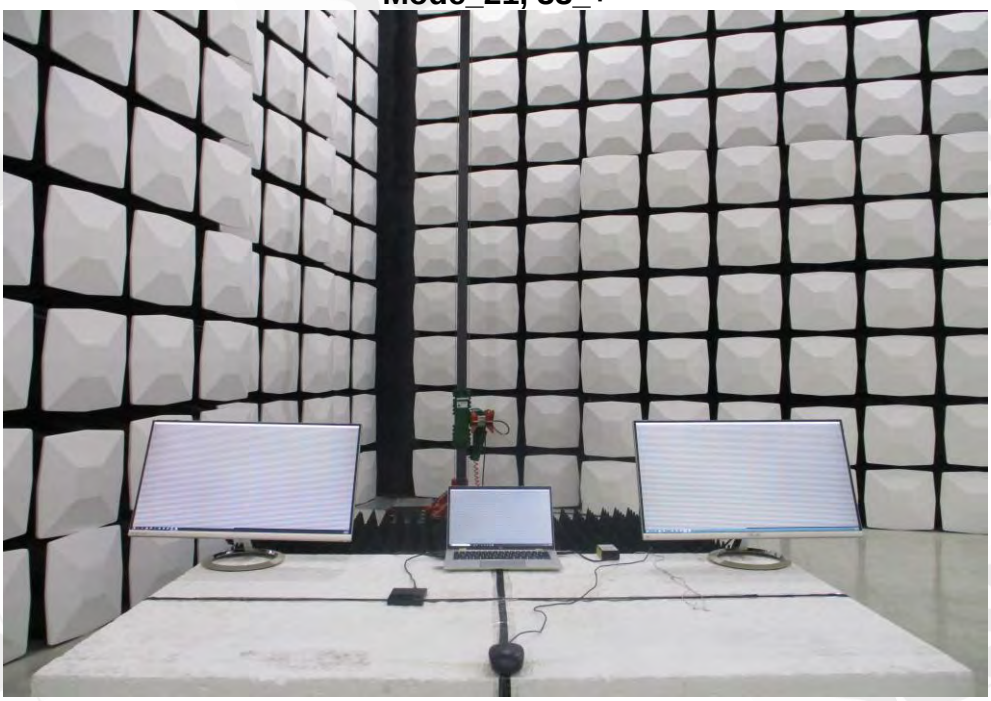
Above 1GHz

Model No.: HSN-I45C-4

Mode_21, 33_+



Mode_21, 33_-

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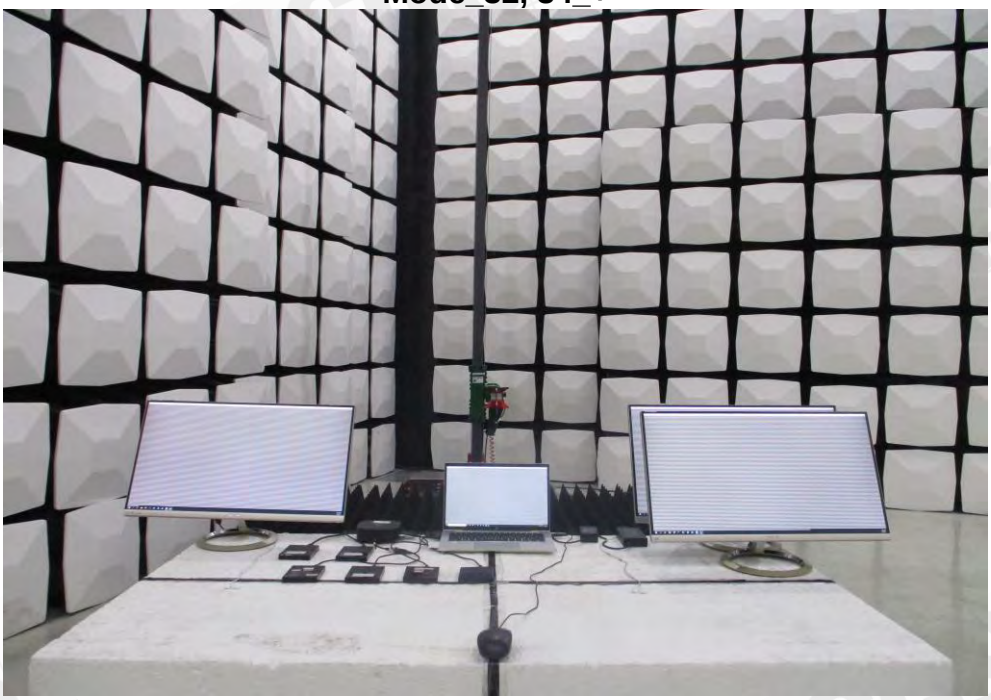
Model No.: HSN-I45C-4

Mode_32, 34_+



Mode_32, 34_-

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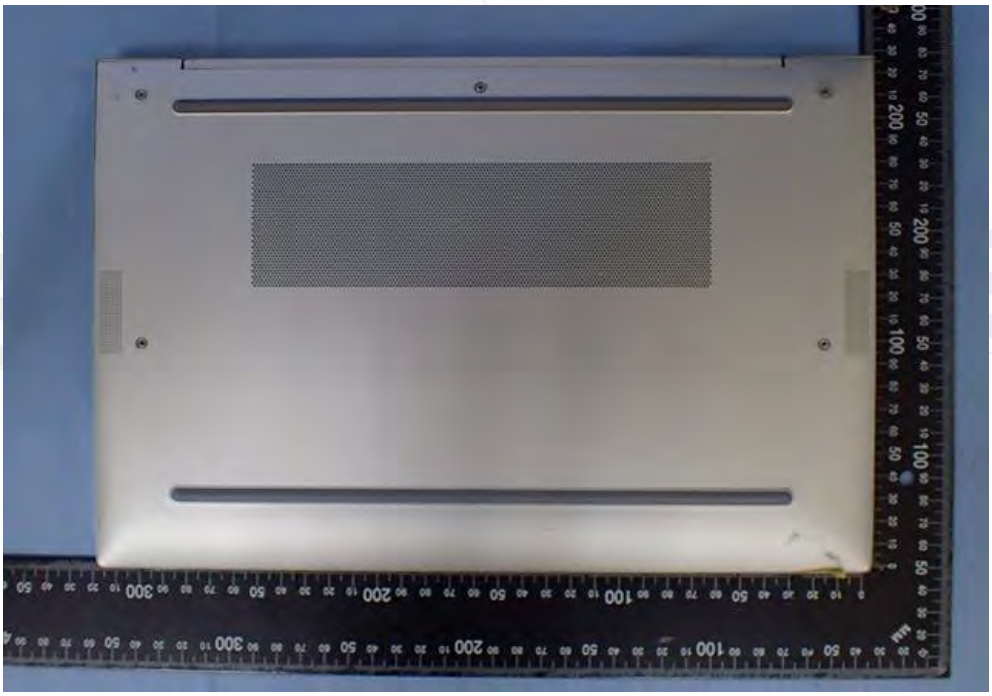
Photographs of Product

Exterior

Model No.: HSN-I45C-4

Type 1



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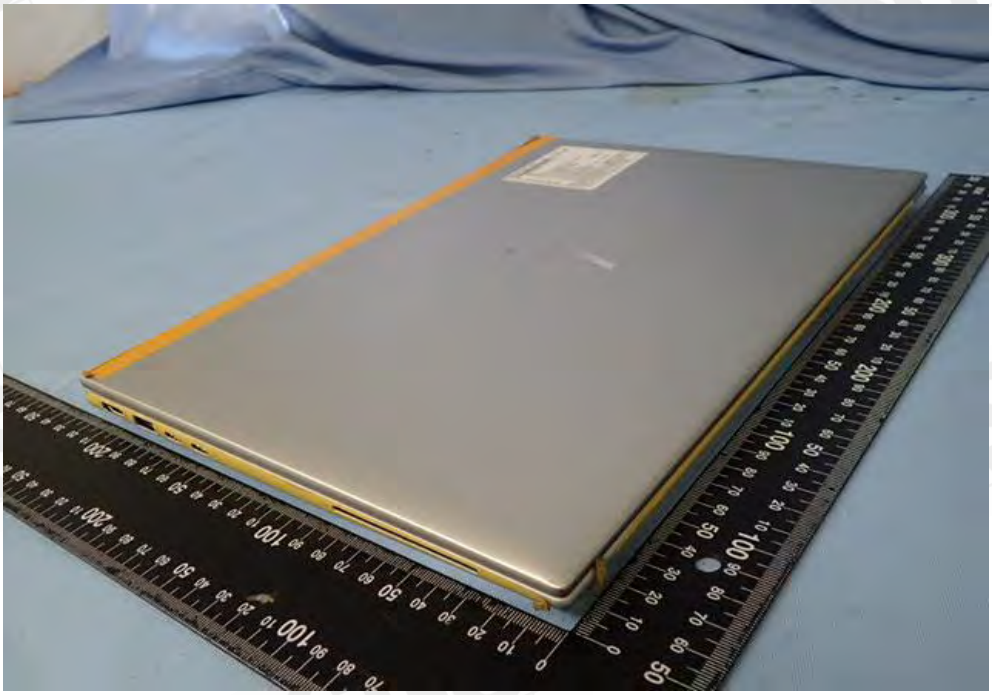

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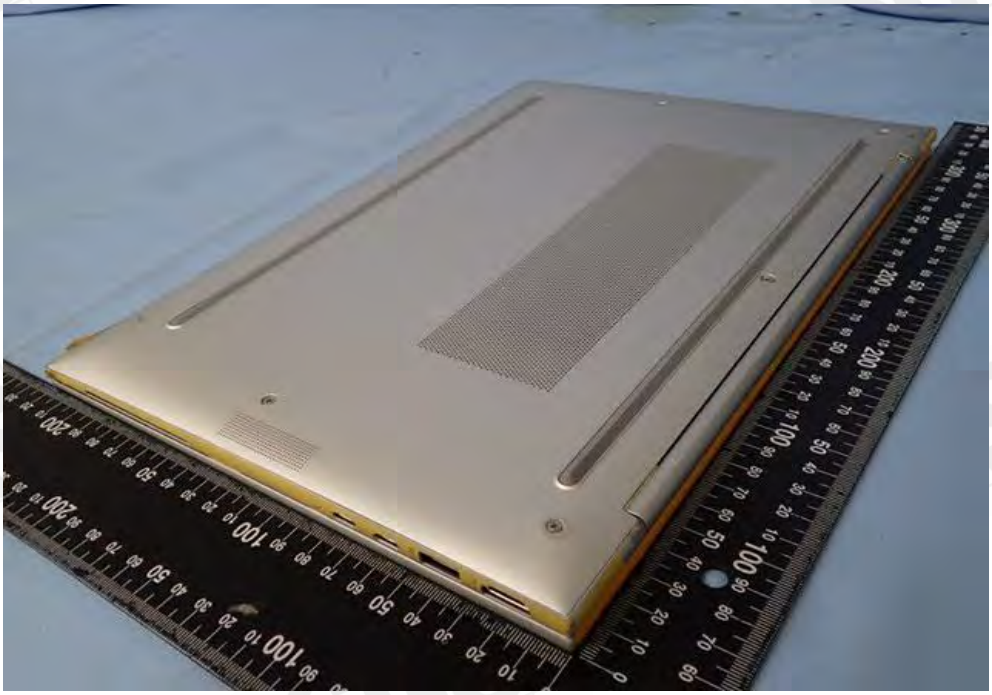

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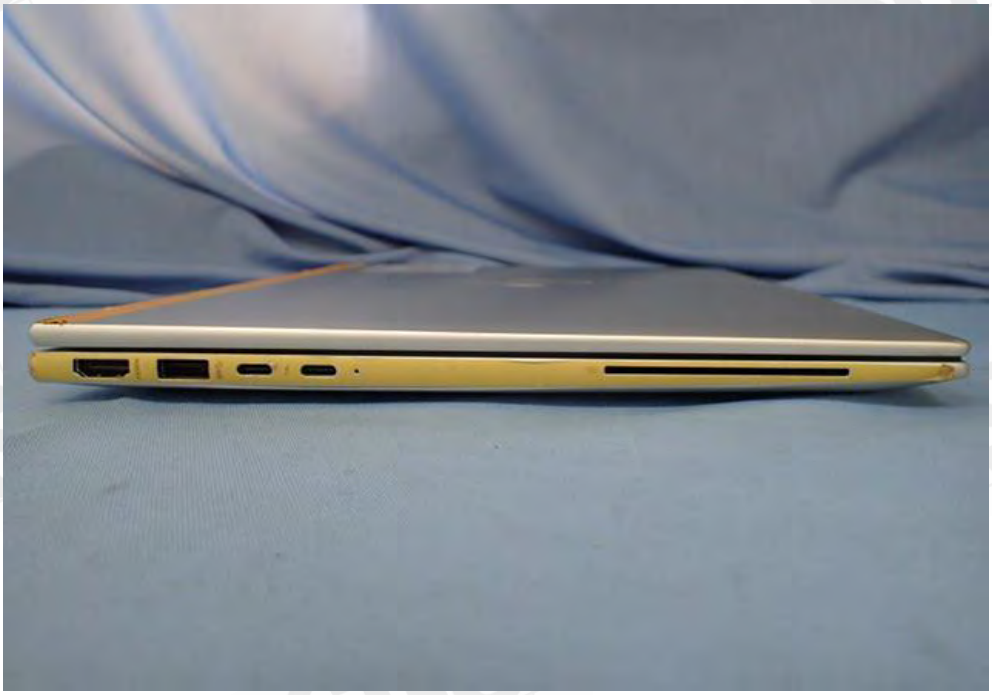

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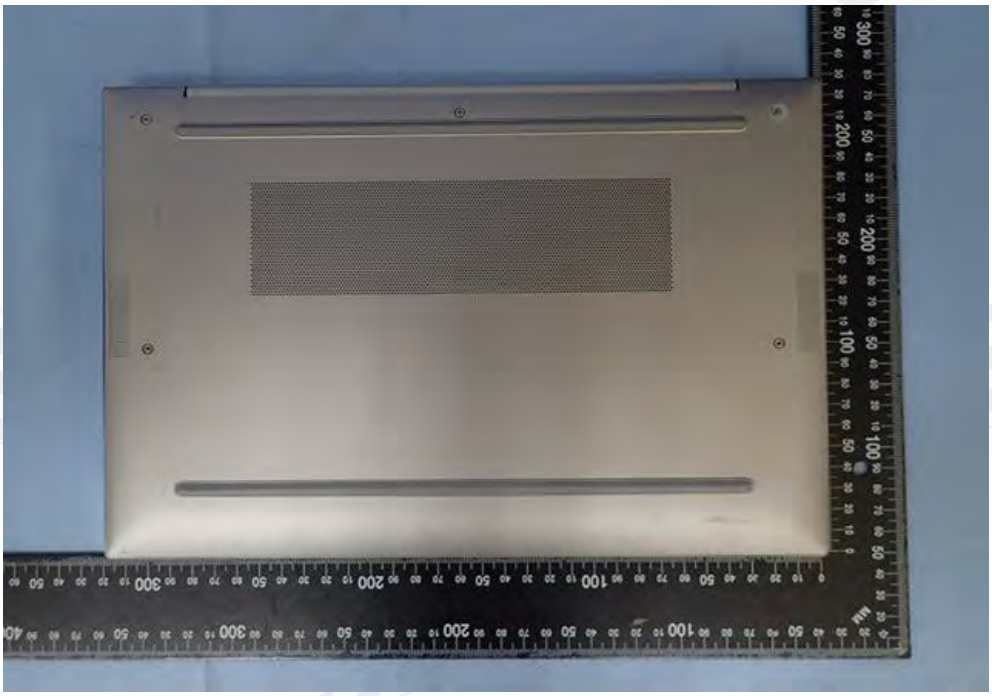
Model No.: HSN-I45C-4

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-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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** End of Report **

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