

FCC SDoC REPORT

ICES-003 TEST REPORT

Test Report No. : T210723L06-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-I50C
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 : Oct. 09, 2021
Date of Test : Oct. 09 ~ 30, 2021
Date of Issue : Nov. 15, 2021

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Approved By:



Date:

Nov. 15, 2021



Hex Chiang (Supervisor)

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Revision History

Revision	Report Number	Description	Issue Date
00	T210723L06-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-I50C
Added Model(s) : N/A
Variant Description : N/A

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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-CA21
		TPN-CA24
	Lite-on (hp)	TPN-LA12
		TPN-LA23
	Delta (hp)	TPN-DA20
TPN-DA24		
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-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-CA24 ; TPN-DA24 I/P: 100-240Vac, 50-60Hz, 1.6A USB-A O/P: 5Vdc, 2A (10W) USV-C O/P: 5Vdc, 3A (15W) / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 5A / 20Vdc, 5A (100W)	
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 6400MHz (16GB / 32GB / 64GB)	
Main Board	Inventec	6050A3321401
CPU	Intel	i5-1235U 1.30GHz
		i5-1245U 1.60GHz
		i7-1255U 1.70GHz
		i7-1265U 1.80GHz
13.5" LCD Panel	IVO	X135NV42
	INX	N135NCG-GT1
	LGD	LP135WU1

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Touch Screen	GIS	9AN13505-001
		9AN13504-001
	TPK	T08ALC13504HA
		T08ALC13503HA
SSD	Samsung	MZVL2256HCHQ-00BH7 (256GB)
		MZVL2256HCHQ-00BH1 (256GB)
		MZ9LQ256HBJD-00BH1 (256GB)
		MZVL2512HCJQ-00BH7 (512GB)
		MZVL2512HCJQ-00BH1 (512GB)
		MZVLQ512HBLU-00BH1 (512GB)
		MZVL21T0HCLR-00BH1 (1TB)
		MZVL22T0HBLB-00BH1 (2TB)
	Kingston	OM3PDP3256B-AH (256GB)
	Kioxia	KBG40ZNV512G (512GB)
	Intel	SSDPEKNU512GZH (512GB)
	Western Digital	SDCQNRV-256G-1006 (256GB)
		SDCPNRY-256G-1006 (256GB)
		SDBPTPZ-256G-1006 (256GB)
		SDCQNRV-512G-1006 (512GB)
		SDCPNRY-512G-1006 (512GB)
		SDBPNPZ-512G-1006 (512GB)
		SDCPNRY-1T00-1006 (1TB)
		SDCPNRZ-2T00-1006 (2TB)
	Hynix	HFM512GD3JX013N (512GB)
	Micron	MTFDKBA512TFH-1BC1AABHA (512GB)
		MTFDHBA512QFD-1AX1AABHA (512GB)
		MTFDKBA1T0TFH-1BC1AABHA (1TB)
		MTFDKBA2T0TFH-1BC1AABHA (2TB)
	SSSTC	CL4-3D256-HP (256GB)
		CA6-8D512-HP (512GB)
	eMMC	Hynix
Kingston		EMMC32G-TX29-HP (32GB)
Ramaxel		RETMEDB32GSBB (32GB)

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eMMC	SanDisk	SDINBDA4-32G-V (32GB)
Battery Pack	CosMX (hp)	HSTNN-OB2L
		HSTNN-OB2M
	Dynapack (hp)	TPN-DB0N
		TPN-DB0O
Wireless LAN+Bluetooth Combo	Intel	AX211D2W
NFC	WNC	XRAV-1
WWAN	Fibocom	L860-GL-16
		FM350-GL
CCD	Chicony	CJFKE3320004331LH
	TFC	YHUY-1

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Pre-test Mode

Mode	CPU	Memory	Panel	Touch Screen	SSD	eMMC	Battery Pack	WLAN+BT	NFC	WWAN	CCD	Adapter	Main Board	Docking
1	Intel i5-1235U 1.30GHz	DDR 5 6400MHz (16GB)	I/O X135NV42	GIS 9AN13505-001	Samsung MZVL2256HCQ-00BH7 (256GB)	Hynix H26M62002JPR (32GB)	CosMX (hp) HSTNN-OB2L	Intel AX211D2W	WNC XRAV-1	Fibocom L860-GL-16	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA10	Inventec 6050A3321401	N/A
2	Intel i5-1245U 1.80GHz	DDR 5 6400MHz (32GB)	INX N135NCG-GT1	GIS 9AN13504-001	Samsung MZVL2256HCQ-00BH1 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony YHUY-1	Chicony (hp) TPN-CA21	Inventec 6050A3321401	N/A
3	Intel i7-1255U 1.70GHz	DDR 5 6400MHz (64GB)	LGD LP135WU1	TPK T08ALC13504HA	Samsung MZ9L0256HBJD-00BH1 (256GB)	Ramaxel RETIMED32GSBB (32GB)	Dynapack (hp) TPN-DB0N	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
4	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	TPK T08ALC13503HA	Samsung MZVL2512HJCG-00BH7 (512GB)	SandDisk SDINBDA4-32G-V (32GB)	Dynapack (hp) TPN-DB0D	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Lite-on (hp) TPN-LA12	Inventec 6050A3321401	N/A
5	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Samsung MZVL2512HJCG-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Lite-on (hp) TPN-LA23	Inventec 6050A3321401	N/A
6	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Samsung MZVL0512HBLU-00BH1 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Delta (hp) TPN-DA20	Inventec 6050A3321401	N/A
7	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Samsung MZVL2110HCLR-00BH1 (1TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Delta (hp) TPN-LA12	Inventec 6050A3321401	N/A
8	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Samsung MZVL2210HBL-00BH1 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Honor (hp) TPN-HA01	Inventec 6050A3321401	N/A
9	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Kingston OM3PDP3256B-AH (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
10	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Kioxia KBG44ZNV512G (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
11	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Intel SSDPEKNU512GZH (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
12	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
13	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
14	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDBPFPZ-256G-1006 (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
15	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
16	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
17	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDBPNFZ-512G-1006 (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
18	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-1T00-1006 (1TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
19	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRZ-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
20	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Hynix HFM512GD3JX013N (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
21	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Micron MTFDKBA512TFH-1BC1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
22	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Micron MTFDHBAS120FD-1AX1AABHA (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
23	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Micron MTFDKBA1T0TFH-1BC1AABHA (1TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
24	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
25	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	SSSTC CL4-3D256-HP (256GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
26	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	SSSTC CA6-3D512-HP (512GB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	N/A
27	Intel i7-1265U 1.80GHz	DDR 5 6400MHz (64GB)	I/O X135NV42	GIS 9AN13504-001	Western Digital SDCPNRY-2T00-1006 (2TB)	Kingston EMMC32G-TX29-HP (32GB)	CosMX (hp) HSTNN-OB2M	Intel AX211D2W	WNC XRAV-1	Fibocom FM350-GL	Chicony CJFKE3320004331LH	Chicony (hp) TPN-CA24	Inventec 6050A3321401	HP HSN-IX02

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 19, 27 (3000 x 2000 Resolution)
ISN	Mode 27 (3000 x 2000 Resolution)
Below 1GHz RE	Mode 19, 27 (3000 x 2000 Resolution)
Above 1GHz RE	Mode 19, 27 (3000 x 2000 Resolution)

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1.5 Description of Support Units

Mode 19:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone	Lenovo	GS-4021M	57Y4488
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
Load	N/A	N/A	N/A

Mode 27:

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	Lenovo	GS-4021M	57Y4488
Earphone	Lenovo	GS-4021M	57Y4488
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
Docking	HP	HSN-IX02	N/A
Load	N/A	N/A	N/A
USB type C to USB	HP	N/A	N/A

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Support Equipment Used in Tested Cable

Mode 19:

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

Mode 27:

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)*5	N/A	0.6m	Shielding
Type C Cable (6)	N/A	0.1m	Shielding
USB Cable (7)	N/A	0.6m	Shielding
USB Mouse Cable (8)	N/A	1.8m	Shielding
Display Cable (9)*2	N/A	1.8m	Shielding
HDMI Cable (10)	N/A	1.8m	Shielding
LAN Cable (11)	N/A	10.0m	Non-Shielding

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1.6 Operation Procedure

Mode 19:

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 27:

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.

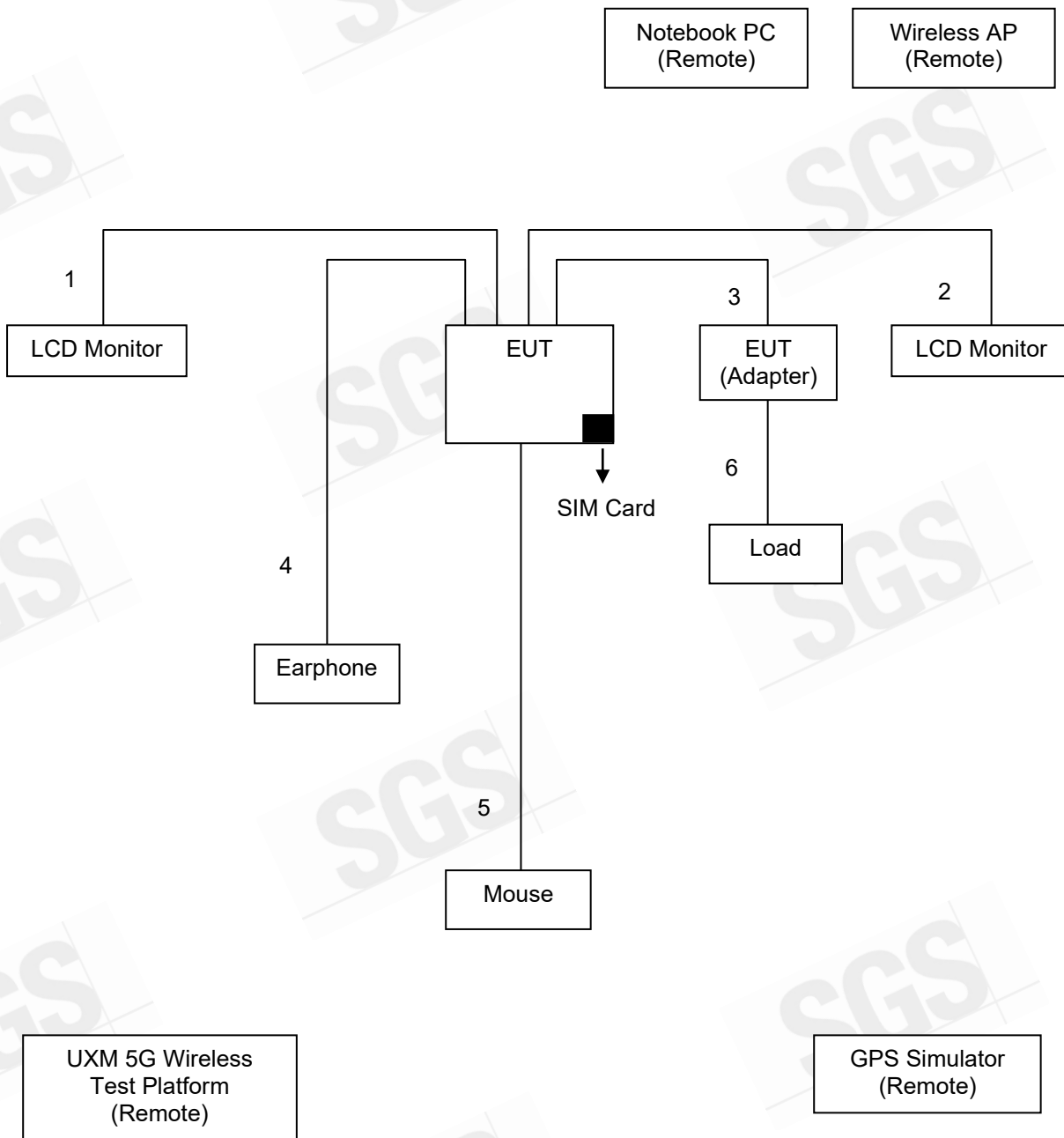
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1.7 Test Set-Up Configuration

Mode 19:

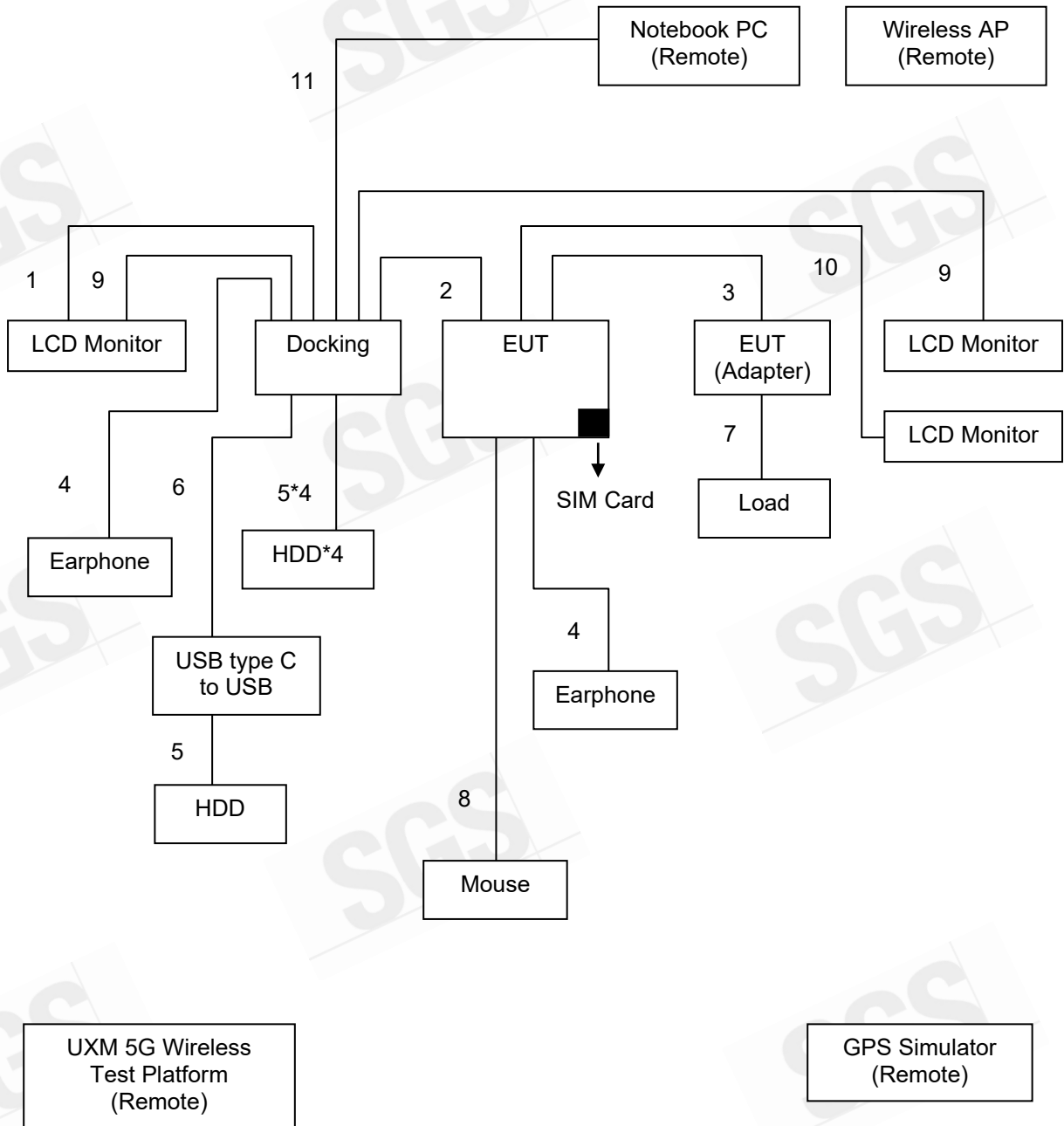


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Mode 27:



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)	Conducted Emission	PASS
ICES-003 Issue 7: October 2020 (Class B)	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 dBuV decreases linearly with the logarithm of frequency.

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2.3.2 Limits of Radiated Emissions

47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	
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	
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

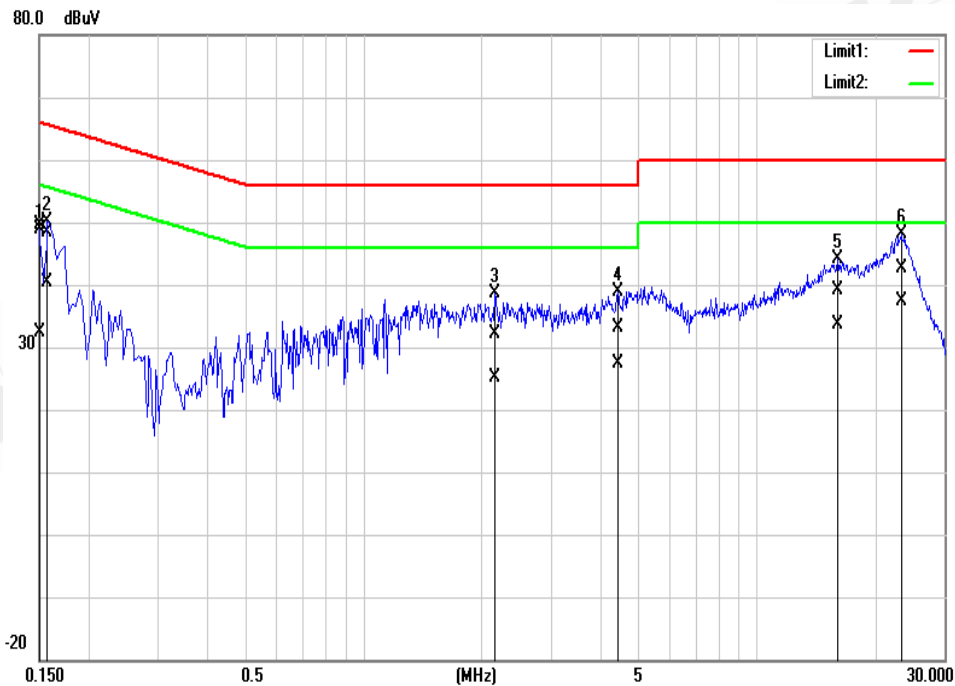
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2.4.3 Measurement Data:

Model no.	HSN-I50C	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2021/10/09
Test Mode	Mode 19	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1500	49.63	32.32	0.12	49.75	32.44	65.99	56.00	-16.24	-23.56	Pass
2	0.1580	48.17	40.25	0.12	48.29	40.37	65.56	55.57	-17.27	-15.20	Pass
3	2.1619	32.05	24.87	0.20	32.25	25.07	56.00	46.00	-23.75	-20.93	Pass
4	4.4460	32.83	27.07	0.29	33.12	27.36	56.00	46.00	-22.88	-18.64	Pass
5	16.1020	38.67	33.13	0.53	39.20	33.66	60.00	50.00	-20.80	-16.34	Pass
6*	23.2939	41.99	36.62	0.68	42.67	37.30	60.00	50.00	-17.33	-12.70	Pass

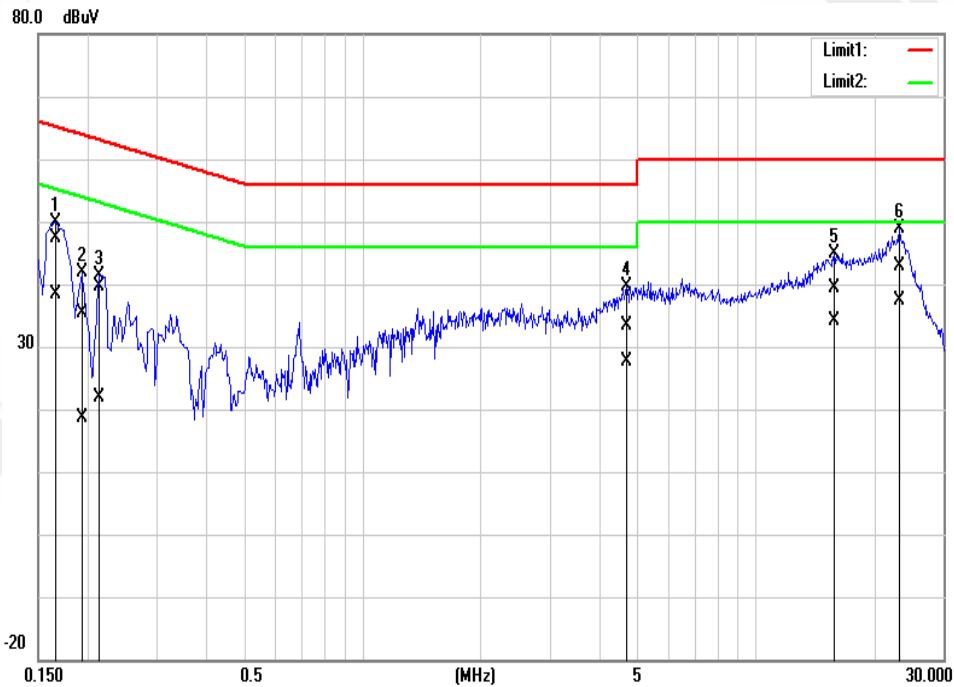
Note: L1 = Live Line

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Model no.	HSN-I50C	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2021/10/09
Test Mode	Mode 19	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1660	47.17	38.24	0.14	47.31	38.38	65.15	55.16	-17.84	-16.78	Pass
2	0.1940	35.22	18.37	0.15	35.37	18.52	63.86	53.86	-28.49	-35.34	Pass
3	0.2140	39.58	21.77	0.15	39.73	21.92	63.04	53.05	-23.31	-31.13	Pass
4	4.7140	33.06	27.29	0.30	33.36	27.59	56.00	46.00	-22.64	-18.41	Pass
5	15.8060	38.92	33.47	0.55	39.47	34.02	60.00	50.00	-20.53	-15.98	Pass
6*	23.1860	42.14	36.69	0.70	42.84	37.39	60.00	50.00	-17.16	-12.61	Pass

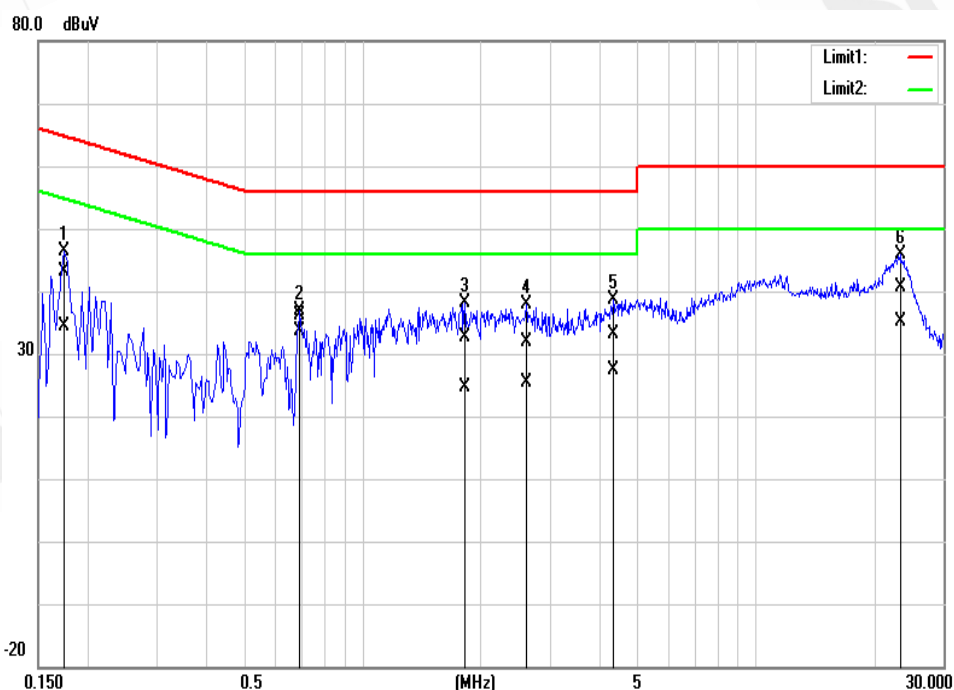
Note: N = Neutral Line

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Model no.	HSN-I50C	Line:	L1
Environmental Conditions	22°C, 52% RH	Tested Date	2021/10/11
Test Mode	Mode 27	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1740	43.09	34.26	0.12	43.21	34.38	64.76	54.77	-21.55	-20.39	Pass
2*	0.6940	35.91	33.39	0.16	36.07	33.55	56.00	46.00	-19.93	-12.45	Pass
3	1.8220	32.43	24.54	0.20	32.63	24.74	56.00	46.00	-23.37	-21.26	Pass
4	2.6180	31.68	25.04	0.23	31.91	25.27	56.00	46.00	-24.09	-20.73	Pass
5	4.3460	32.85	27.07	0.29	33.14	27.36	56.00	46.00	-22.86	-18.64	Pass
6	23.3860	39.87	34.50	0.68	40.55	35.18	60.00	50.00	-19.45	-14.82	Pass

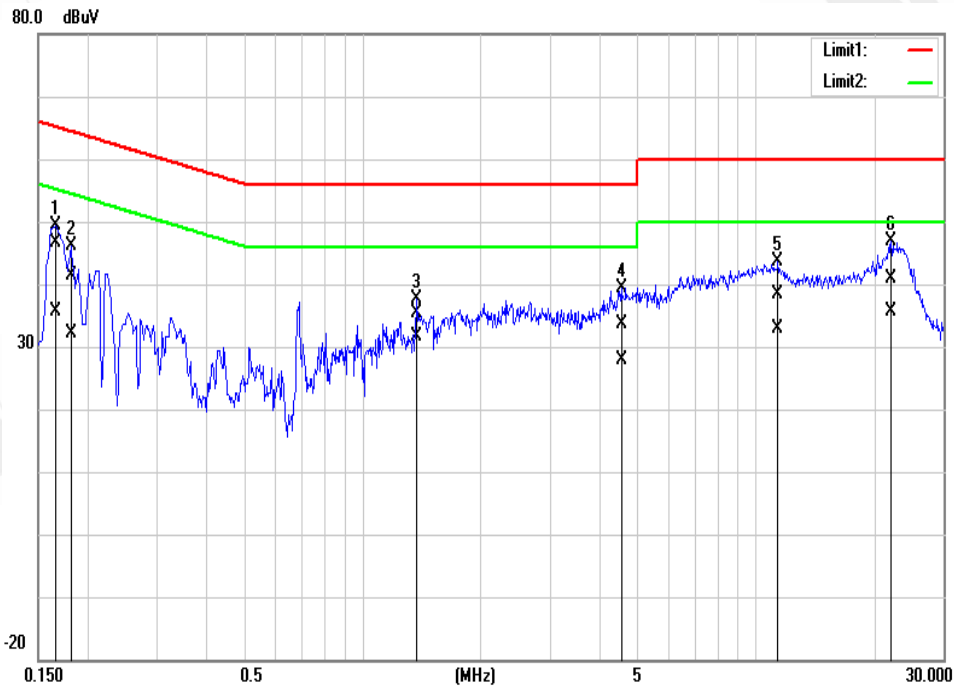
Note: L1 = Live Line

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Model no.	HSN-I50C	Line:	N
Environmental Conditions	22°C, 52% RH	Tested Date	2021/10/11
Test Mode	Mode 27	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1660	46.59	35.57	0.14	46.73	35.71	65.15	55.16	-18.42	-19.45	Pass
2	0.1819	41.20	32.09	0.15	41.35	32.24	64.39	54.40	-23.04	-22.16	Pass
3*	1.3779	35.23	31.48	0.19	35.42	31.67	56.00	46.00	-20.58	-14.33	Pass
4	4.5580	33.40	27.63	0.30	33.70	27.93	56.00	46.00	-22.30	-18.07	Pass
5	11.4100	37.85	32.44	0.45	38.30	32.89	60.00	50.00	-21.70	-17.11	Pass
6	22.0780	40.13	34.85	0.68	40.81	35.53	60.00	50.00	-19.19	-14.47	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-I50C	Test Mode	Mode 19
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	51.3400	37.33	-13.29	24.04	30.00	-5.96	100	329	QP
2	119.2400	34.72	-7.90	26.82	30.00	-3.18	100	202	QP
3	180.3500	36.80	-9.93	26.87	30.00	-3.13	100	360	QP
4	213.3300	36.51	-9.64	26.87	30.00	-3.13	100	132	QP
5	356.8900	35.19	-2.98	32.21	37.00	-4.79	100	110	QP
6	500.4500	31.81	-0.47	31.34	37.00	-5.66	296	0	QP
7	911.7300	25.55	5.14	30.69	37.00	-6.31	198	360	QP

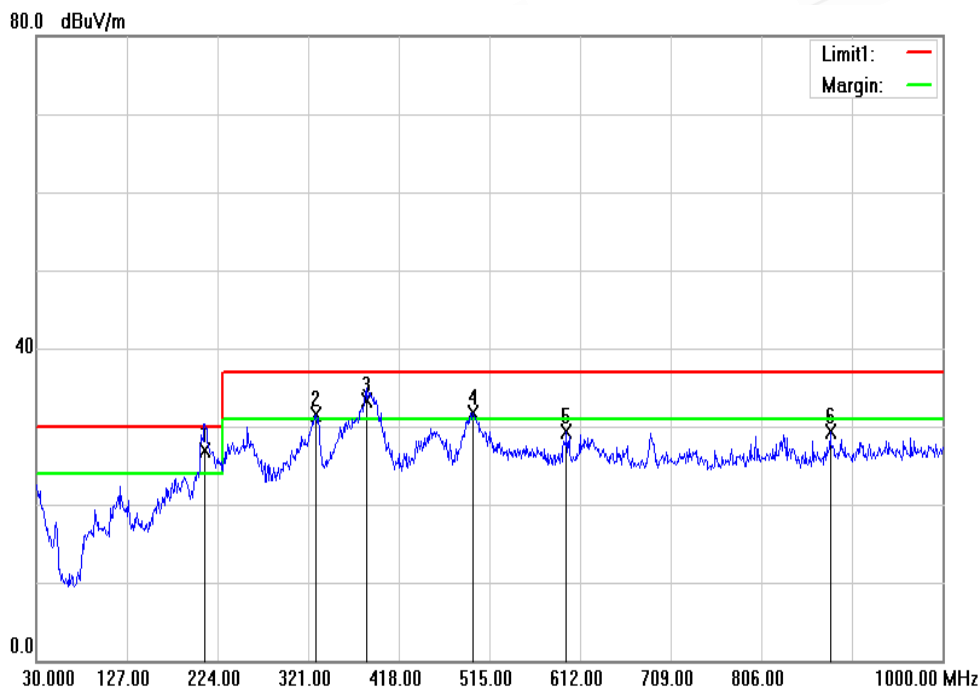
REMARKS: The other emission levels were very low against the limit.

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Model no.	HSN-I50C	Test Mode	Mode 19
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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		



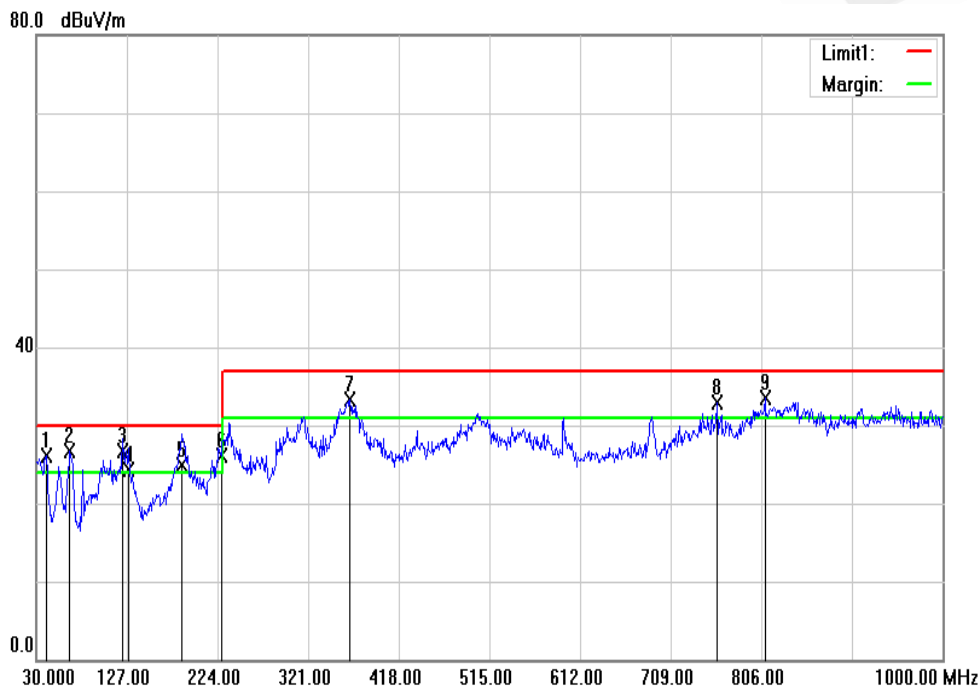
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	210.4200	37.86	-10.91	26.95	30.00	-3.05	399	51	QP
2	329.7300	37.15	-5.65	31.50	37.00	-5.50	300	69	QP
3	383.0800	37.74	-4.35	33.39	37.00	-3.61	300	159	QP
4	497.5400	34.48	-2.78	31.70	37.00	-5.30	145	360	QP
5	597.4500	30.03	-0.80	29.23	37.00	-7.77	100	20	QP
6	879.7200	26.71	2.50	29.21	37.00	-7.79	100	357	QP

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

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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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		



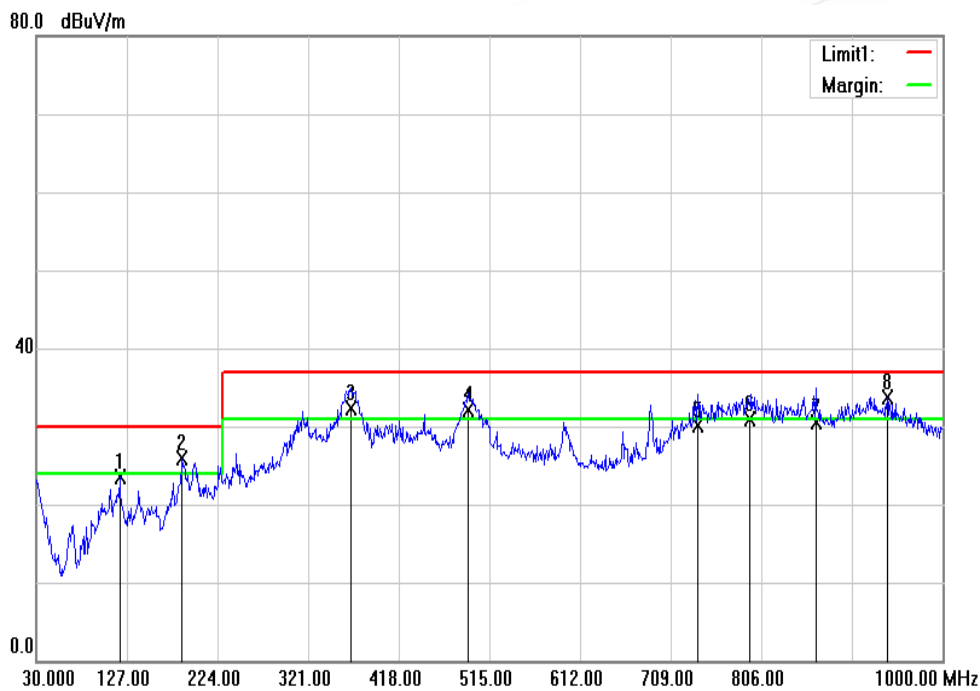
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	40.6700	34.41	-8.35	26.06	30.00	-3.94	100	241	QP
2	65.8900	41.23	-14.58	26.65	30.00	-3.35	199	359	QP
3	122.1500	34.44	-7.79	26.65	30.00	-3.35	100	212	QP
4	128.9400	32.14	-7.90	24.24	30.00	-5.76	100	186	QP
5	185.2000	34.84	-10.02	24.82	30.00	-5.18	100	165	QP
6	228.8500	34.50	-8.38	26.12	30.00	-3.88	100	156	QP
7	365.6200	36.12	-2.88	33.24	37.00	-3.76	100	54	QP
8	758.4700	29.73	3.14	32.87	37.00	-4.13	199	30	QP
9	809.8800	29.64	3.77	33.41	37.00	-3.59	400	359	QP

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

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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	119.2400	32.48	-8.93	23.55	30.00	-6.45	400	159	QP
2	186.1700	37.32	-11.46	25.86	30.00	-4.14	400	49	QP
3	366.5900	37.03	-4.69	32.34	37.00	-4.66	200	312	QP
4	491.7200	35.00	-2.82	32.18	37.00	-4.82	200	36	QP
5	738.1000	29.44	0.68	30.12	37.00	-6.88	400	213	QP
6	794.2900	29.49	1.41	30.90	37.00	-6.10	100	156	QP
7	864.2000	28.20	2.29	30.49	37.00	-6.51	100	156	QP
8	940.8300	30.65	3.08	33.73	37.00	-3.27	300	245	QP

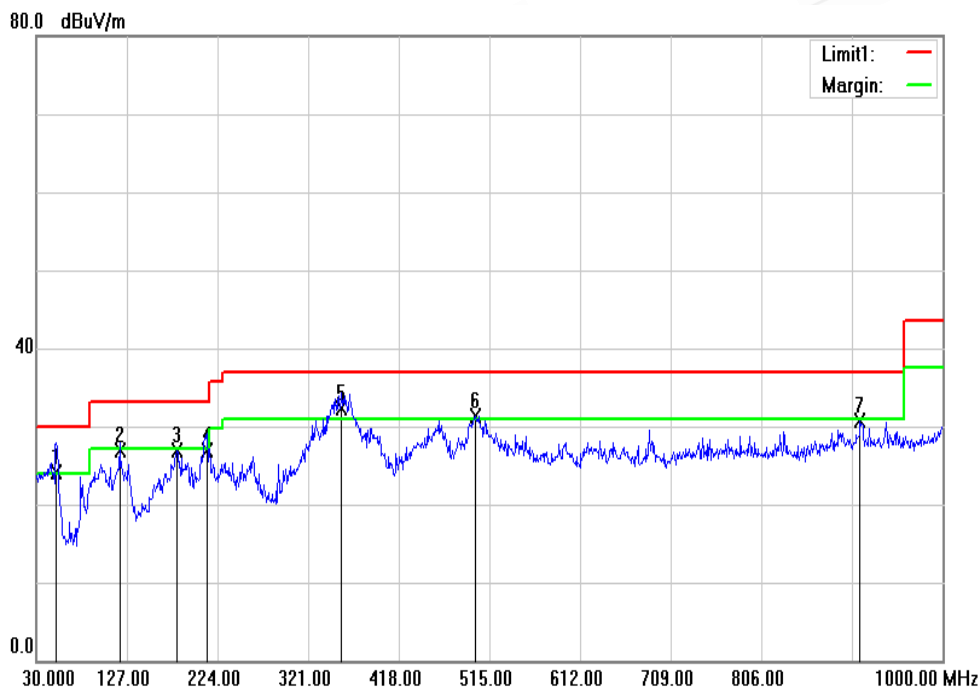
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Model no.	HSN-I50C	Test Mode	Mode 19
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	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	51.3400	37.33	-13.29	24.04	30.00	-5.96	100	329	QP
2	119.2400	34.72	-7.90	26.82	33.10	-6.28	100	202	QP
3	180.3500	36.80	-9.93	26.87	33.10	-6.23	100	360	QP
4	213.3300	36.51	-9.64	26.87	33.10	-6.23	100	132	QP
5	356.8900	35.19	-2.98	32.21	37.00	-4.79	100	110	QP
6	500.4500	31.81	-0.47	31.34	37.00	-5.66	296	0	QP
7	911.7300	25.55	5.14	30.69	37.00	-6.31	198	360	QP

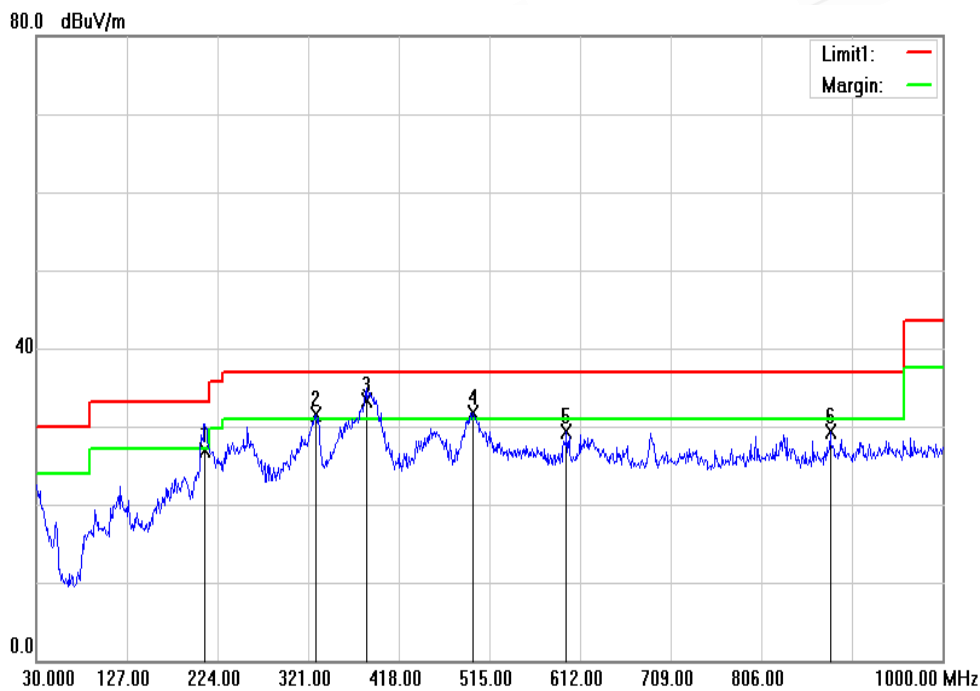
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Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	210.4200	37.86	-10.91	26.95	33.10	-6.15	399	51	QP
2	329.7300	37.15	-5.65	31.50	37.00	-5.50	300	69	QP
3	383.0800	37.74	-4.35	33.39	37.00	-3.61	300	159	QP
4	497.5400	34.48	-2.78	31.70	37.00	-5.30	145	360	QP
5	597.4500	30.03	-0.80	29.23	37.00	-7.77	100	20	QP
6	879.7200	26.71	2.50	29.21	37.00	-7.79	100	357	QP

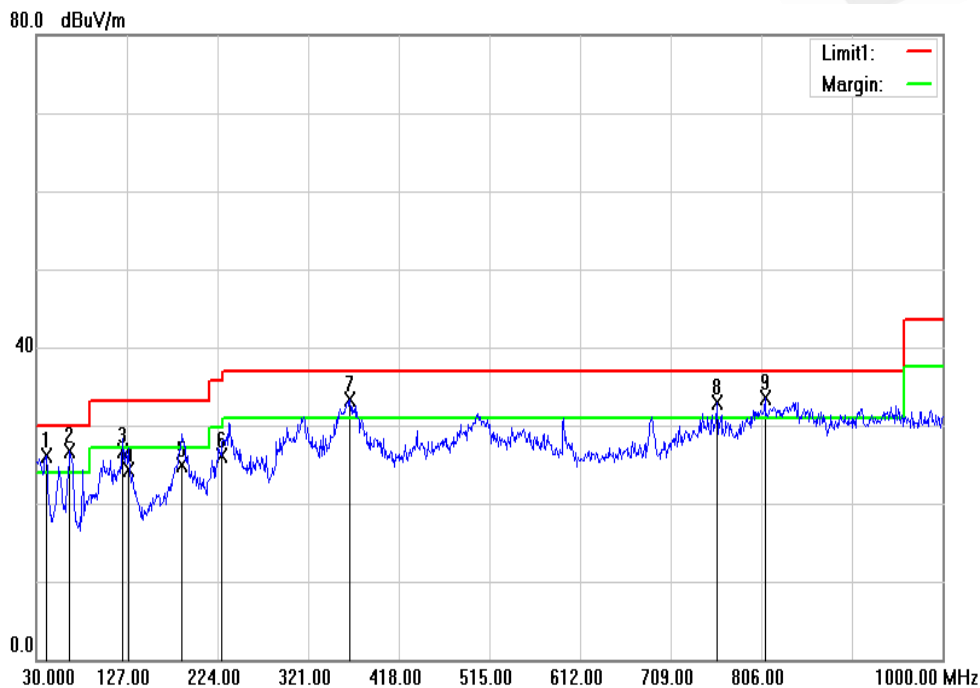
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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



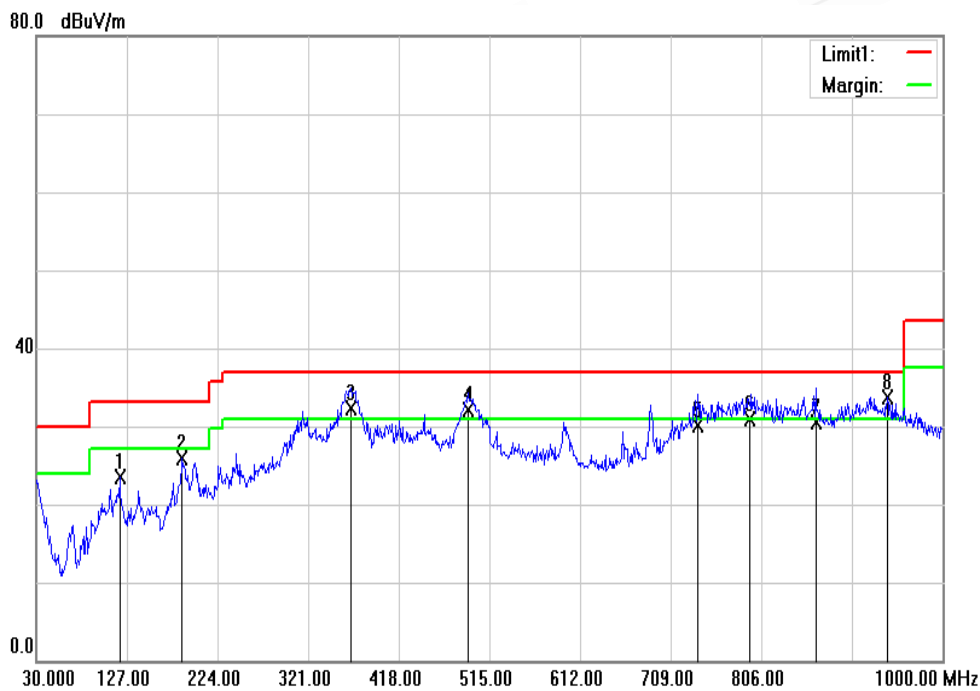
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	40.6700	34.41	-8.35	26.06	30.00	-3.94	100	241	QP
2	65.8900	41.23	-14.58	26.65	30.00	-3.35	199	359	QP
3	122.1500	34.44	-7.79	26.65	33.10	-6.45	100	212	QP
4	128.9400	32.14	-7.90	24.24	33.10	-8.86	100	186	QP
5	185.2000	34.84	-10.02	24.82	33.10	-8.28	100	165	QP
6	228.8500	34.50	-8.38	26.12	35.60	-9.48	100	156	QP
7	365.6200	36.12	-2.88	33.24	37.00	-3.76	100	54	QP
8	758.4700	29.73	3.14	32.87	37.00	-4.13	199	30	QP
9	809.8800	29.64	3.77	33.41	37.00	-3.59	400	359	QP

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

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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	119.2400	32.48	-8.93	23.55	33.10	-9.55	400	159	QP
2	186.1700	37.32	-11.46	25.86	33.10	-7.24	400	49	QP
3	366.5900	37.03	-4.69	32.34	37.00	-4.66	200	312	QP
4	491.7200	35.00	-2.82	32.18	37.00	-4.82	200	36	QP
5	738.1000	29.44	0.68	30.12	37.00	-6.88	400	213	QP
6	794.2900	29.49	1.41	30.90	37.00	-6.10	100	156	QP
7	864.2000	28.20	2.29	30.49	37.00	-6.51	100	156	QP
8	940.8300	30.65	3.08	33.73	37.00	-3.27	300	245	QP

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

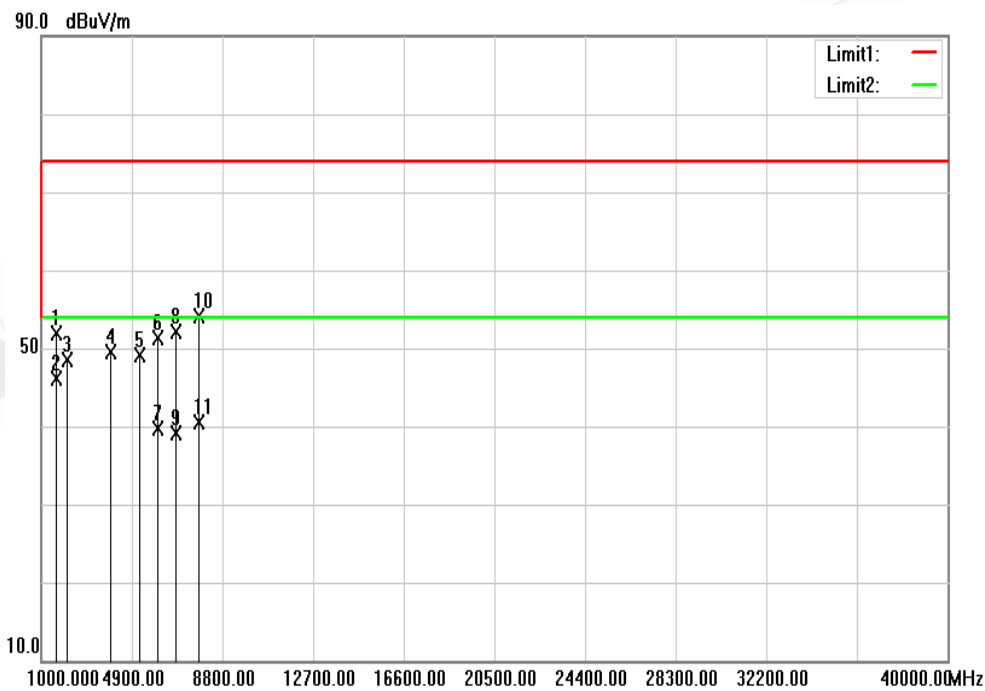
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Above 1GHz

Model no.	HSN-I50C	Test Mode	Mode 19
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	69.14	-17.28	51.86	74.00	-22.14	100	230	peak
2	1603.500	63.46	-17.28	46.18	54.00	-7.82	100	230	AVG
3	2113.500	61.33	-12.90	48.43	74.00	-25.57	100	204	peak
4	4000.500	60.39	-10.84	49.55	74.00	-24.45	400	190	peak
5	5173.500	56.21	-7.10	49.11	74.00	-24.89	200	359	peak
6	5964.000	55.58	-4.24	51.34	74.00	-22.66	214	0	peak
7	5964.000	44.00	-4.24	39.76	54.00	-14.24	214	0	AVG
8	6788.500	55.64	-3.53	52.11	74.00	-21.89	300	257	peak
9	6788.500	42.61	-3.53	39.08	54.00	-14.92	300	257	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	7783.000	56.86	-2.77	54.09	74.00	-19.91	139	360	peak
11	7783.000	43.19	-2.77	40.42	54.00	-13.58	139	360	AVG

REMARKS:

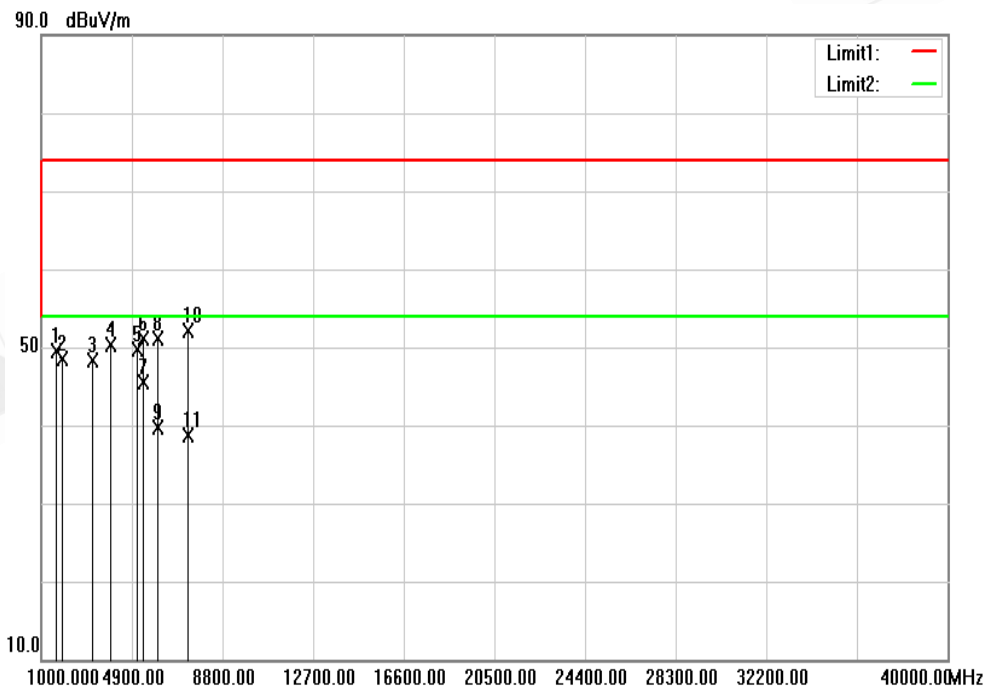
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I50C	Test Mode	Mode 19
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	1603.500	66.88	-17.28	49.60	74.00	-24.40	200	203	peak
2	1884.000	63.46	-14.90	48.56	74.00	-25.44	400	328	peak
3	3201.500	59.75	-11.54	48.21	74.00	-25.79	300	196	peak
4	4000.500	61.05	-10.84	50.21	74.00	-23.79	200	315	peak
5	5122.500	57.04	-7.27	49.77	74.00	-24.23	200	5	peak
6	5403.000	57.82	-6.81	51.01	74.00	-22.99	100	176	peak
7	5403.000	52.39	-6.81	45.58	54.00	-8.42	100	176	AVG
8	5998.000	54.80	-3.64	51.16	74.00	-22.84	100	137	peak
9	5998.000	43.40	-3.64	39.76	54.00	-14.24	100	137	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	7298.500	55.15	-3.01	52.14	74.00	-21.86	109	360	peak
11	7298.500	41.70	-3.01	38.69	54.00	-15.31	109	360	AVG

REMARKS:

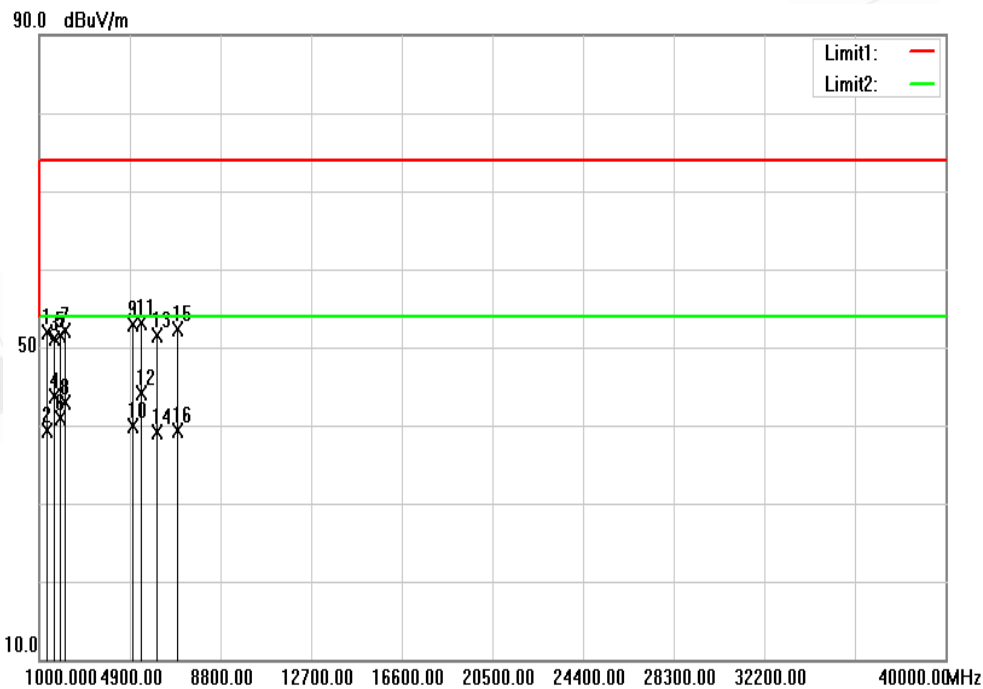
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	1314.500	69.84	-17.86	51.98	74.00	-22.02	400	292	peak
2	1314.500	57.22	-17.86	39.36	54.00	-14.64	400	292	AVG
3	1603.500	68.29	-17.28	51.01	74.00	-22.99	100	323	peak
4	1603.500	61.05	-17.28	43.77	54.00	-10.23	100	323	AVG
5	1884.000	66.43	-14.90	51.53	74.00	-22.47	100	252	peak
6	1884.000	55.82	-14.90	40.92	54.00	-13.08	100	252	AVG
7	2113.500	65.02	-12.90	52.12	74.00	-21.88	200	258	peak
8	2113.500	55.78	-12.90	42.88	54.00	-11.12	200	258	AVG
9	4986.500	60.59	-7.61	52.98	74.00	-21.02	400	123	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	4986.500	47.48	-7.61	39.87	54.00	-14.13	400	123	AVG
11	5386.000	59.94	-6.79	53.15	74.00	-20.85	200	107	peak
12	5386.000	50.96	-6.79	44.17	54.00	-9.83	200	107	AVG
13	6032.000	55.51	-3.95	51.56	74.00	-22.44	200	0	peak
14	6032.000	43.09	-3.95	39.14	54.00	-14.86	200	0	AVG
15	6941.500	55.47	-3.22	52.25	74.00	-21.75	300	86	peak
16	6941.500	42.46	-3.22	39.24	54.00	-14.76	300	86	AVG

REMARKS:

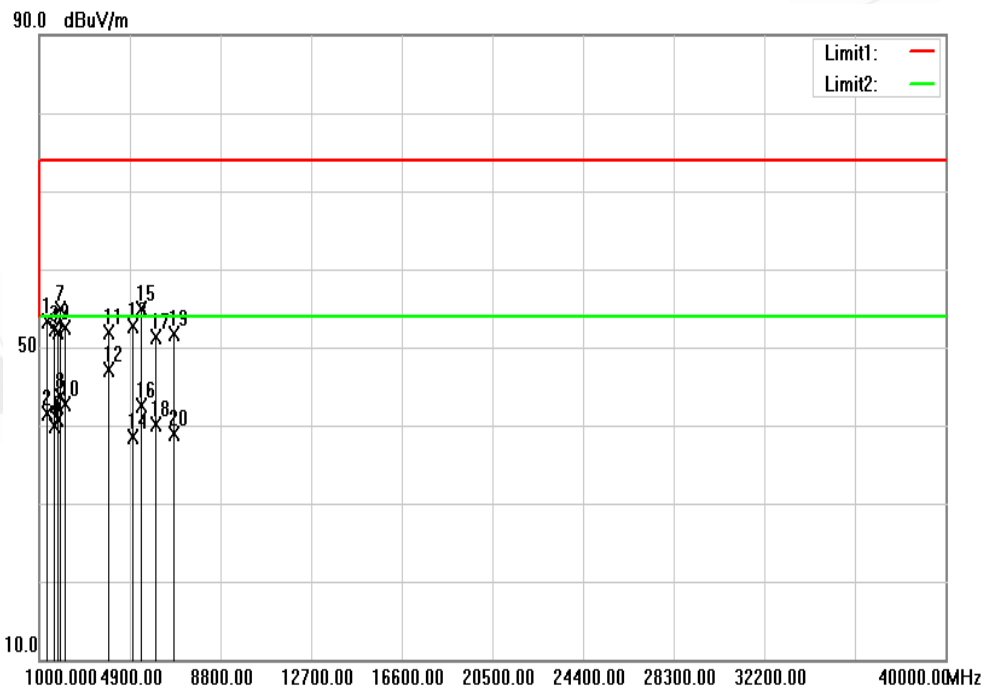
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I50C	Test Mode	Mode 27
Environmental Conditions	23°C, 53% RH	Tested Date	2021/10/30
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	1306.000	71.28	-17.93	53.35	74.00	-20.65	400	45	peak
2	1306.000	59.44	-17.93	41.51	54.00	-12.49	400	45	AVG
3	1637.500	69.23	-16.92	52.31	74.00	-21.69	300	170	peak
4	1637.500	56.90	-16.92	39.98	54.00	-14.02	300	170	AVG
5	1799.000	67.67	-15.80	51.87	74.00	-22.13	300	358	peak
6	1799.000	56.49	-15.80	40.69	54.00	-13.31	300	358	AVG
7	1884.000	69.80	-14.90	54.90	74.00	-19.10	100	330	peak
8	1884.000	58.54	-14.90	43.64	54.00	-10.36	100	330	AVG
9	2105.000	65.39	-12.85	52.54	74.00	-21.46	200	212	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	2105.000	55.57	-12.85	42.72	54.00	-11.28	200	212	AVG
11	4000.500	62.78	-10.84	51.94	74.00	-22.06	400	180	peak
12	4000.500	57.85	-10.84	47.01	54.00	-6.99	400	180	AVG
13	5003.500	60.17	-7.54	52.63	74.00	-21.37	200	62	peak
14	5003.500	46.13	-7.54	38.59	54.00	-15.41	200	62	AVG
15	5377.500	61.70	-6.79	54.91	74.00	-19.09	200	236	peak
16	5377.500	49.30	-6.79	42.51	54.00	-11.49	200	236	AVG
17	5998.000	55.02	-3.64	51.38	74.00	-22.62	151	360	peak
18	5998.000	43.76	-3.64	40.12	54.00	-13.88	151	360	AVG
19	6746.000	55.28	-3.49	51.79	74.00	-22.21	100	338	peak
20	6746.000	42.34	-3.49	38.85	54.00	-15.15	100	338	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

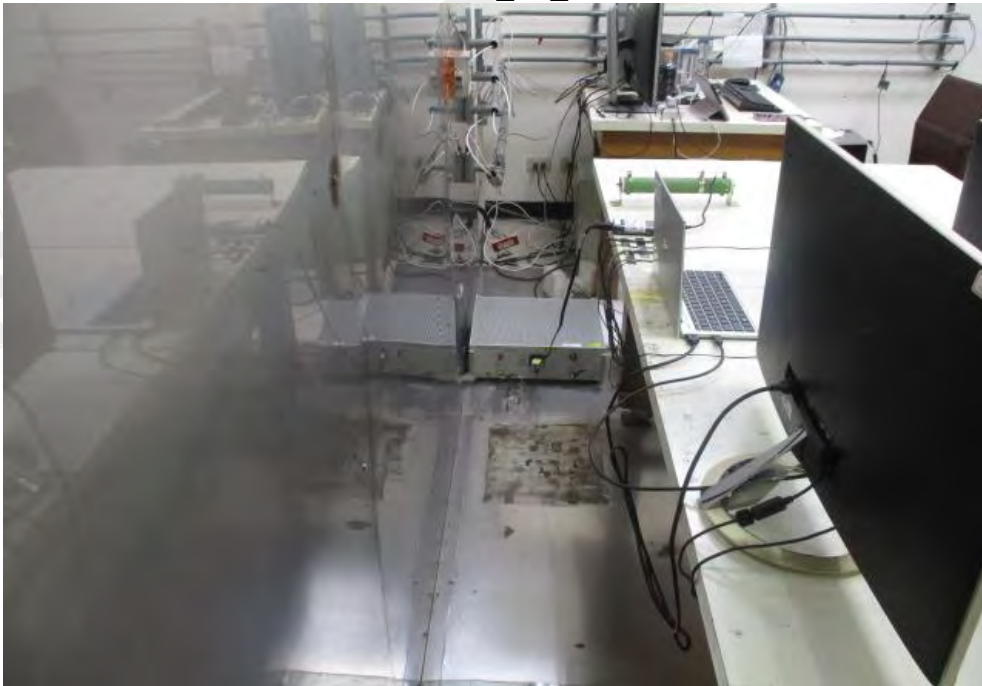
CE Testing Set-up

Model No.: HSN-I50C

Mode_19_+



Mode_19_-



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Model No.: HSN-I50C

Mode 27_+



Mode 27_-



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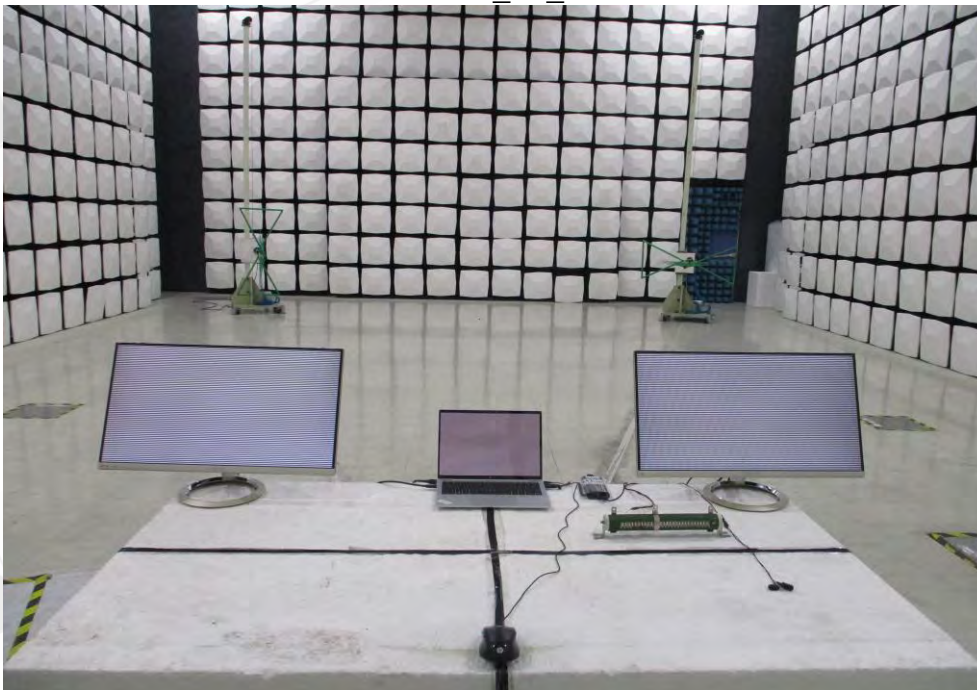
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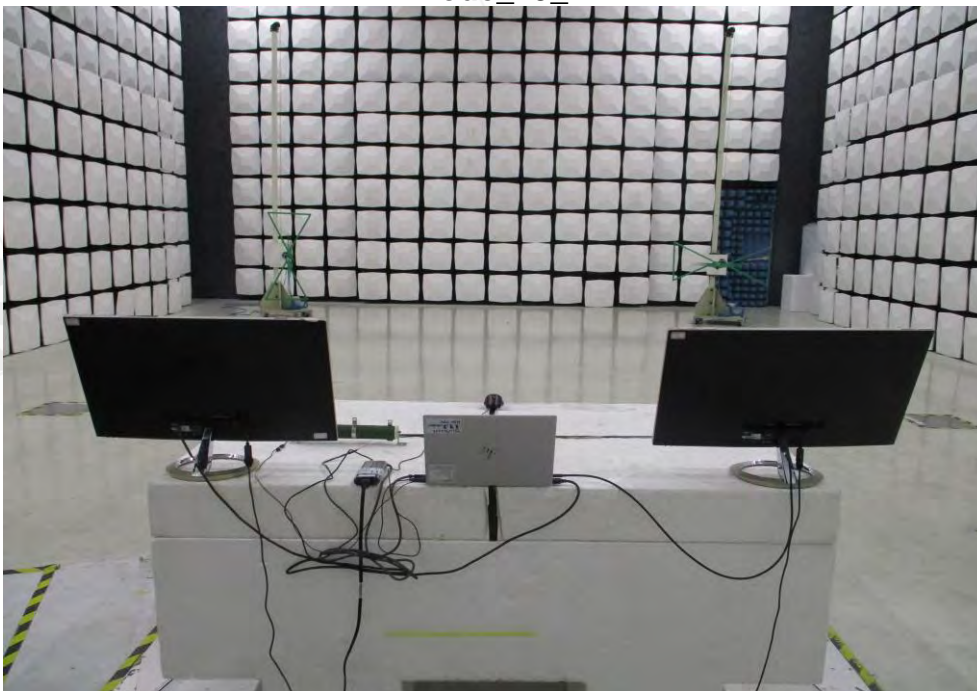
**RE Testing Set-up
Below 1GHz**

Model No.: HSN-I50C

Mode_19_+



Mode_19_-



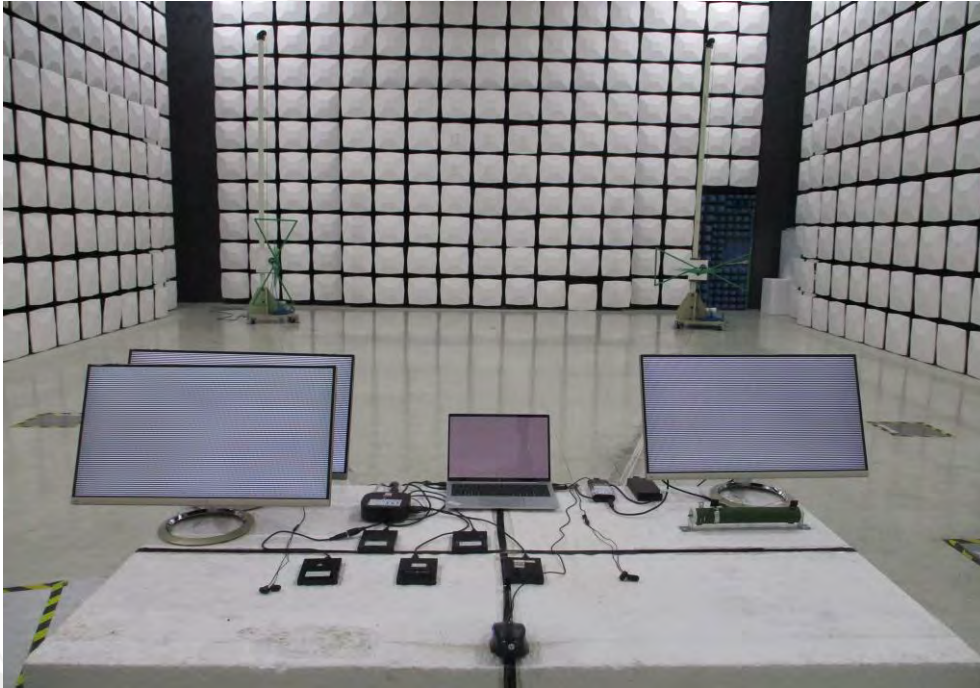
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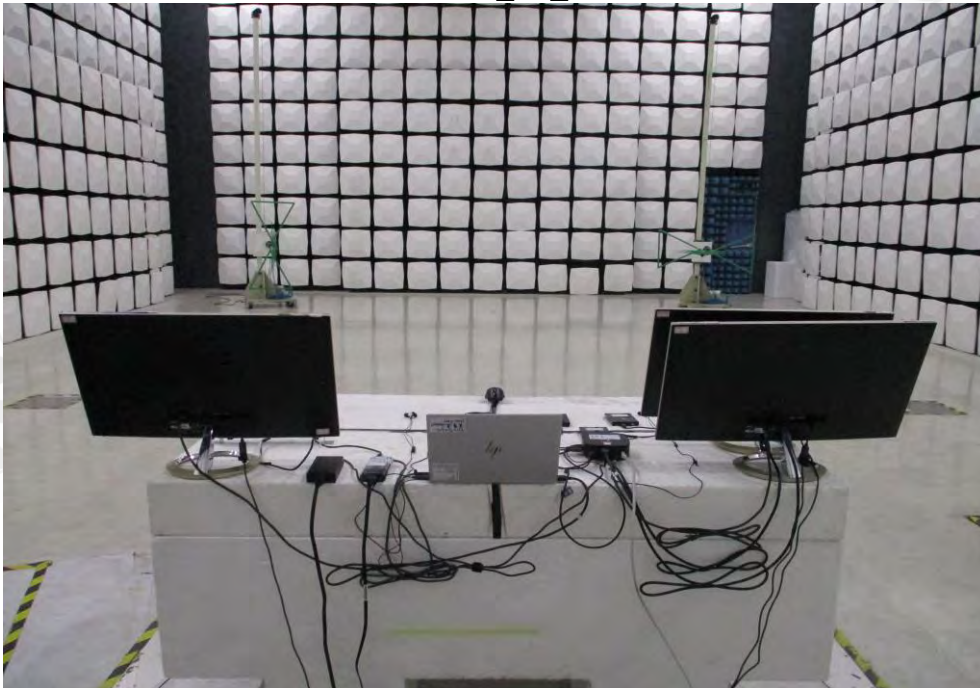
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Model No.: HSN-I50C

Mode_27_+



Mode_27_-



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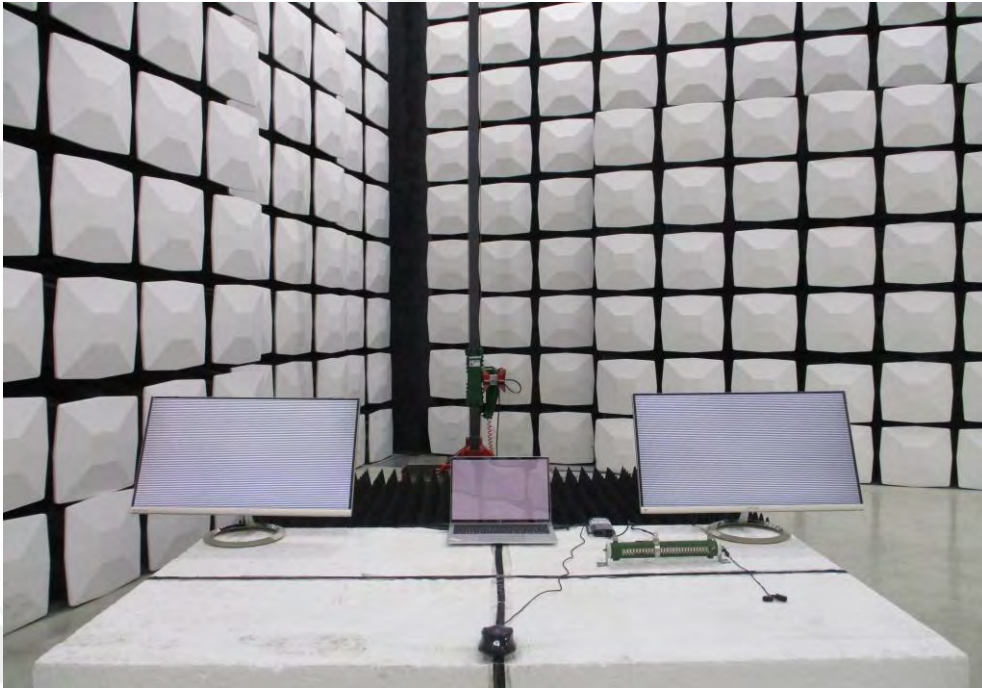
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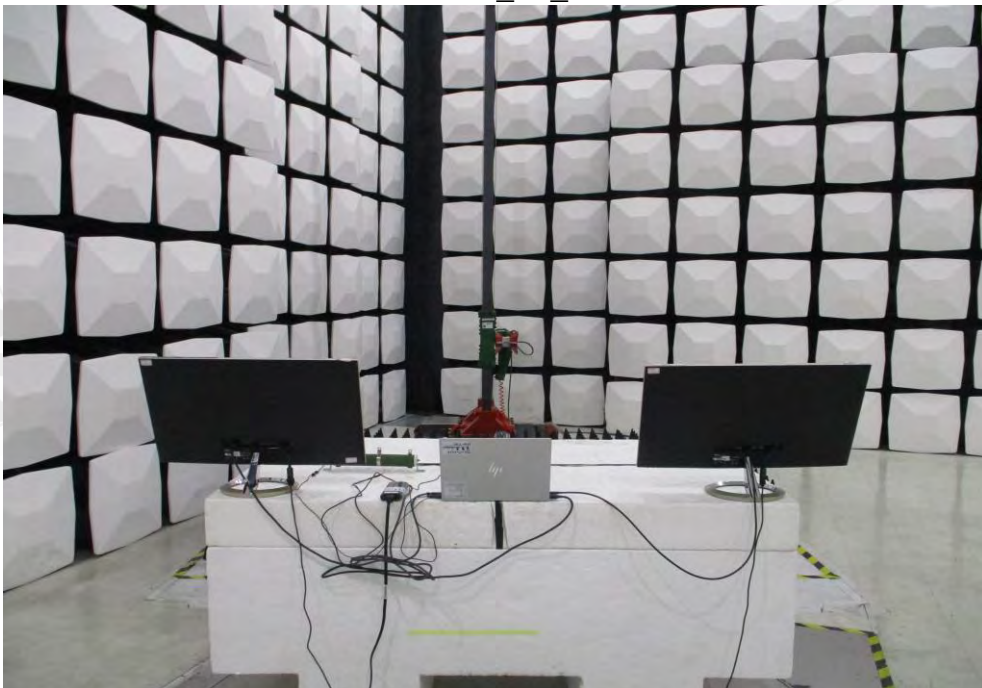
Above 1GHz

Model No.: HSN-I50C

Mode_19_+



Mode_19_-



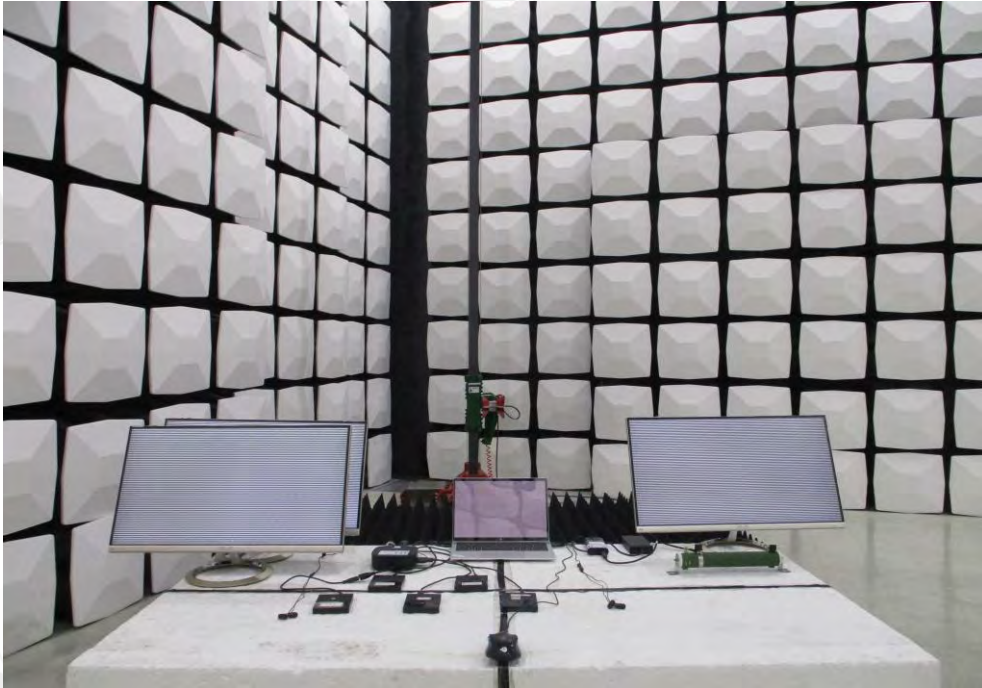
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Model No.: HSN-I50C

Mode_27_+



Mode_27_-



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Photographs of Product
Exterior

Model No.: HSN-I50C



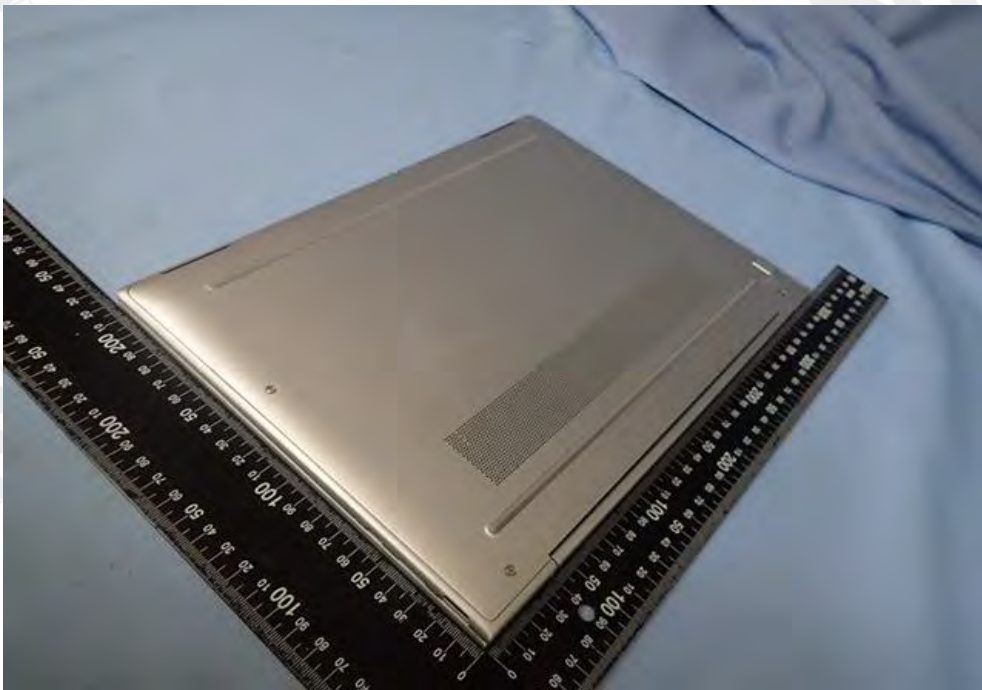
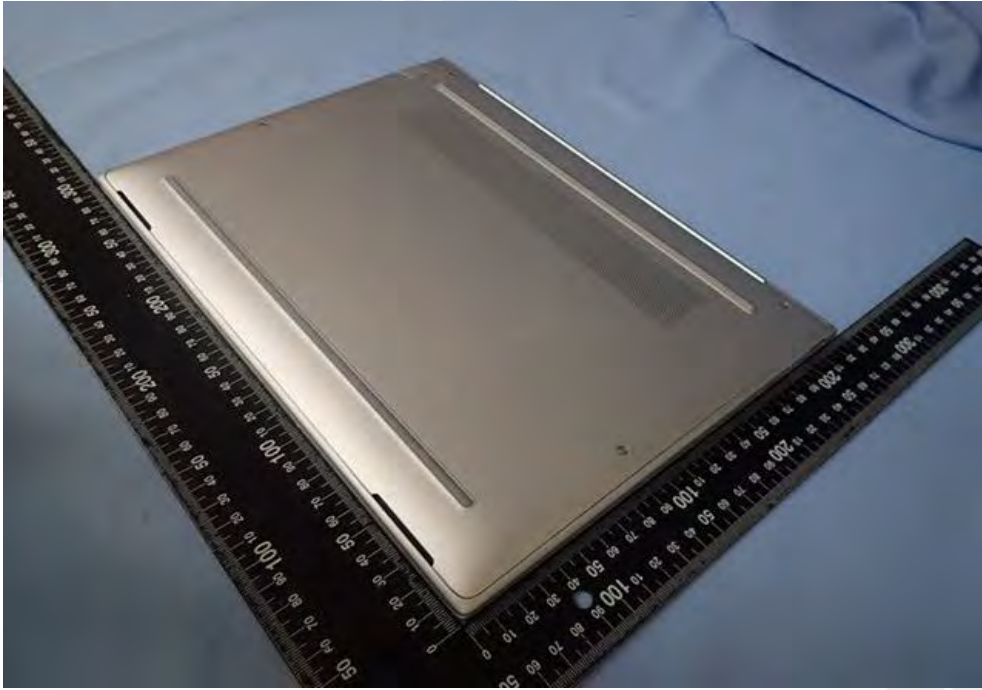
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Adapter Model No.: TPN-CA10



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Adapter Model No.: TPN-CA21



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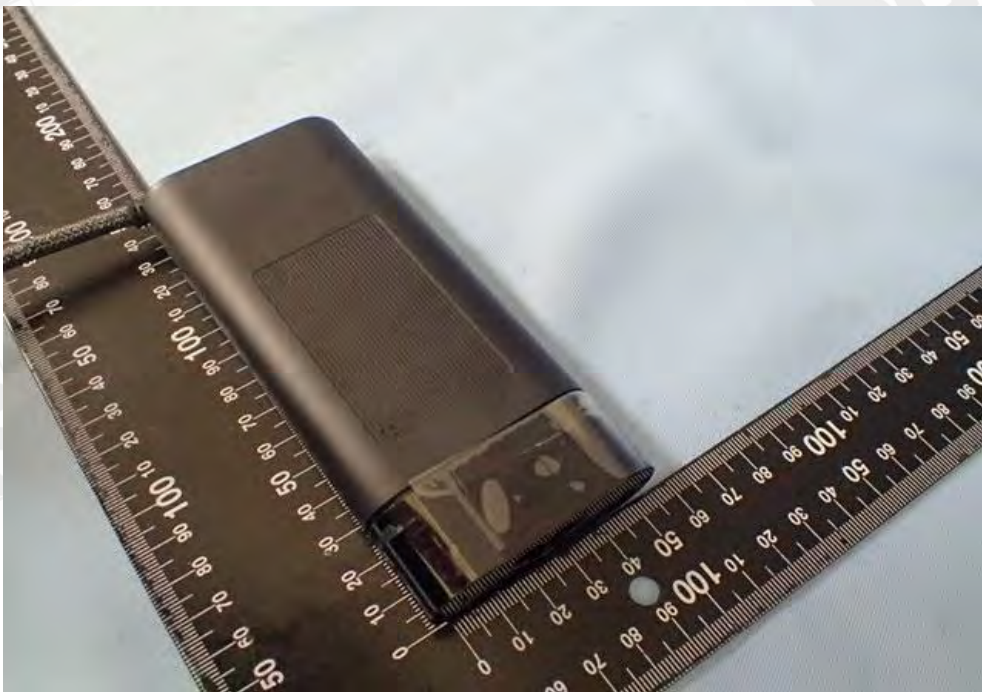
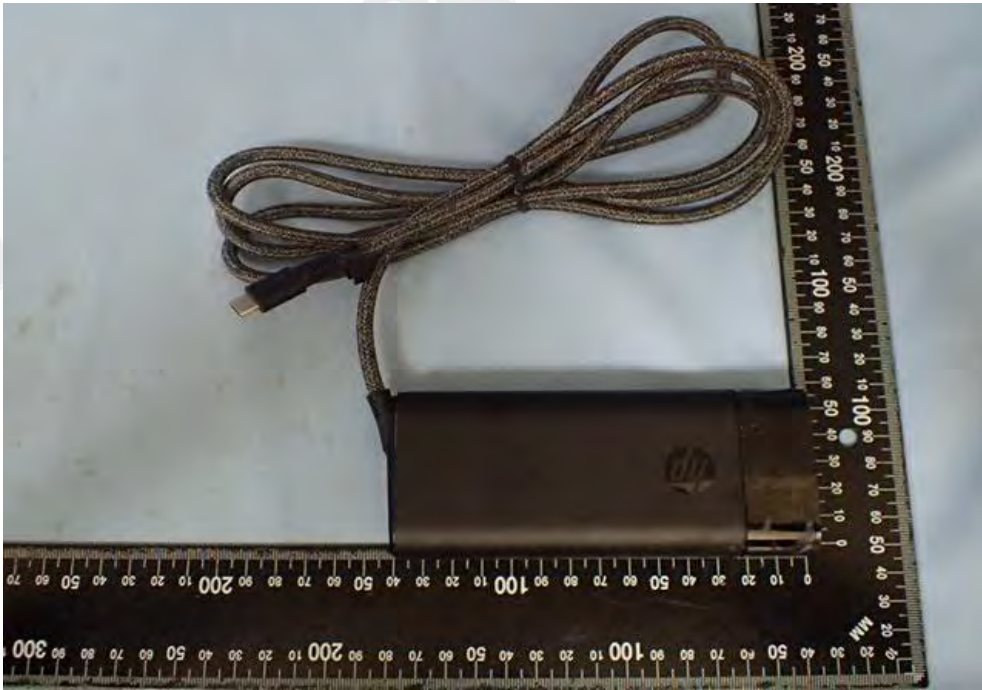


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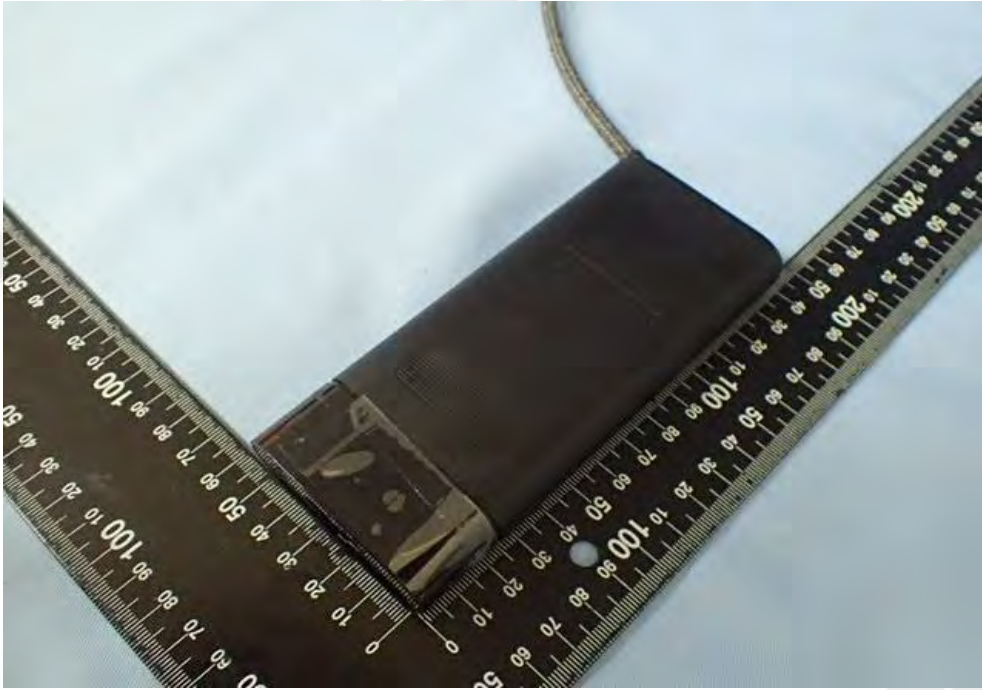
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Adapter Model No.: TPN-CA24



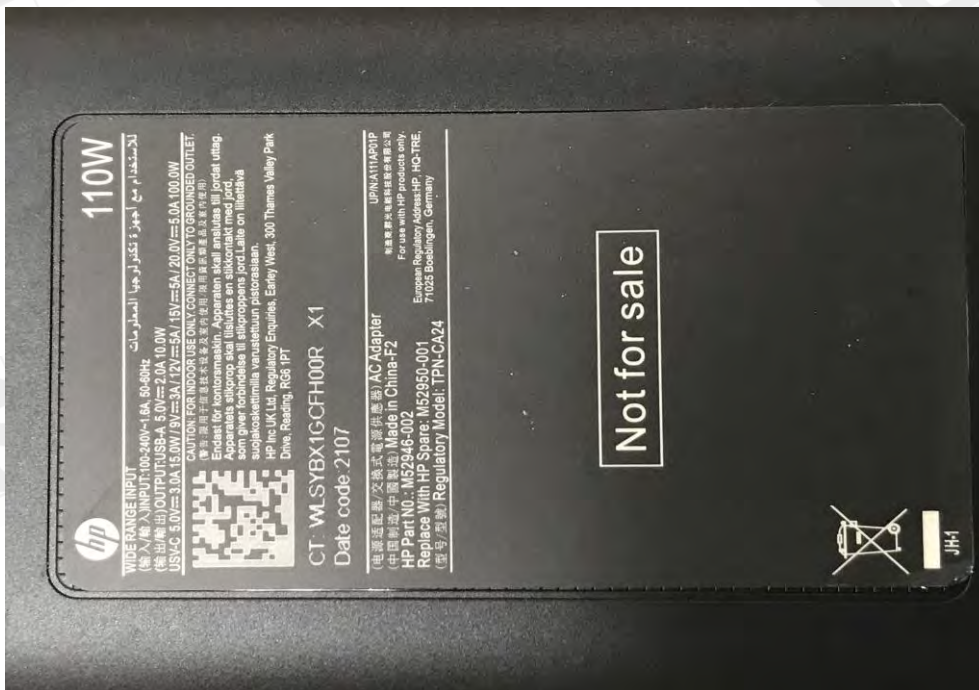
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Adapter Model No.: TPN-LA12



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Adapter Model No.: TPN-LA23



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Adapter Model No.: TPN-DA20



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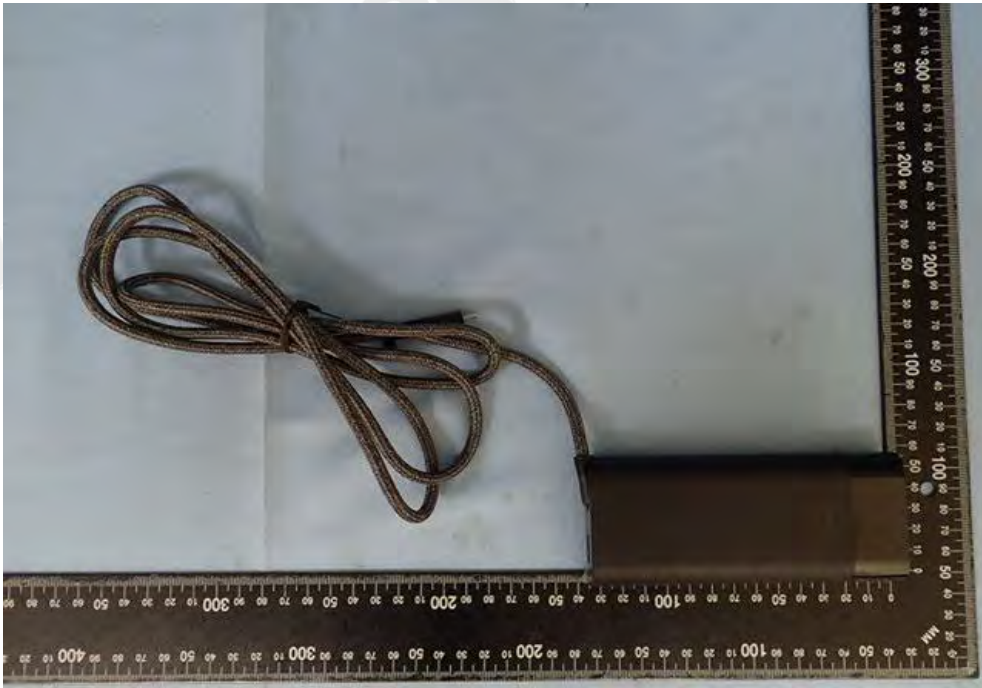
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Adapter Model No.: TPN-DA24



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Adapter Model No.: TPN-HA01



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