


# FCC SDoC REPORT

## ICES-003 TEST REPORT

**Test Report No.** : TMWK2111001104KE  
**Applicant** : Quanta Computer Inc.  
**Address** : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)  
**Manufacturer** : Quanta Computer Inc.  
**Address** : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

**Equipment Under Test (EUT) :**  
**Product Name** : Notebook Computer  
**Brand Name** :  , HP, HP Inc.  
**Model No.** : TPN-Q273  
**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** : Nov. 11, 2021  
**Date of Test** : Nov. 11 ~ Dec. 07, 2021  
**Date of Issue** : Dec. 24, 2021

<b>Test Result :</b>	<b>PASS</b>
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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:**

Dec. 24, 2021



**Hex Chiang (Supervisor)**

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## Revision History

Revision	Report Number	Description	Issue Date
00	TMWK2111001104KE	Original	Dec. 17, 2021
01	TMWK2111001104KE	See the following Note Rev. (01)	Dec. 24, 2021

**Note**

Rev. (01):

- Applicant modified keypart (Wireless WAN and Wireless Charger). After the estimate, it is unnecessary to final tested.

	Original	Modified
Wireless WAN	Fibocom / L850-GL-01-06	Fibocom / L850-GL
Wireless Charger	Luxshare / LONPS005-CS-H	Hp / HSN-L01NFM

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : Quanta Computer Inc.  
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)  
Manufacturer : Quanta Computer Inc.  
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

## 1.2 General Description of EUT

Product Name : Notebook Computer  
Brand Name :  , HP, HP Inc.  
Model No. : TPN-Q273  
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	
AC Adapter	AcBel	TPN-AA07
	Chicony	TPN-CA20
		TPN-CA21
	Delta	TPN-DA15
		TPN-DA20
	Honor	TPN-HA01
Lite-On	TPN-LA19	
	TPN-LA23	
Adapter Power Rating	<b>For TPN-AA07; TPN-CA20; TPN-DA15; TPN-LA19;</b> I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 3A; 15Vdc, 3A	
	<b>For TPN-CA21; TPN-HA01; TPN-LA23</b> I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 5A; 15Vdc, 4.33A; 20Vdc, 3.25A	
	<b>For TPN-DA20</b> 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	
Main Board	Quanta	0GR
CPU	Intel	ALDER LAKE-P (0.8GHz)
		ALDER LAKE-P (1.0GHz)
		ALDER LAKE-P (1.2GHz)
Memory	LPDDR4X 4266 (8GB/16GB/32GB)	
13.5" LCD Panel	AUO	B135QAN01.1
	BOE	NE135GXM-N61
	INX	N135NCG-GT1
	IVO	X135NV42
	LGD	LP135WU1
Touch Screen	Henghao	8G0D501A
		8G0D502A
		8G0D501B

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Touch Screen	TPK	T08ALC13509HA
		T08ALC13510HA
		T08ALC13509HB
SSD	SSSTC	CL1-3D128-HP (128GB)
		CL4-3D256-HP (256GB)
	Micron	MTFDHBA512QFD-1AX1AABHA (512GB)
	Samsung	MZ9LQ128HCHQ-00BH1 (128GB)
		MZ9LQ256HBJD-00BH1 (256GB)
		MZVLQ512HBLU-00BH1 (512GB)
	Kingston	OM3PDP3128B-AH (128GB)
		OM3PDP3256B-AH (256GB)
		OM8SBP3512K-AH (512GB)
	Phison	PSEDN128GA17DC0 (128GB)
	Western Digital	SDBPTPZ-256G-1006 (256GB)
SDBPNPZ-512G-1006 (512GB)		
Wireless LAN	Intel	AX211D2W
Wireless WAN	Fibocom	FM350-GL
		** L850-GL-01-06
		L850-GL
Camera	Polight	H5NL01
	TFC	YHUE-8
Battery	Dynapack	HSTNN-DB9W
Wireless Charger	** Luxshare hp	LONPS005-CS-H HSN-L01NFM
HDMI to VGA Adapter (optional)	HP	HSTNN-GD07
HDMI to DVI Adapter (optional)	HP	F5A28AA#xxx
HP USB 3.0 to Gigabit Adapter (optional)	HP	T4Q43AV
HP USB-C to DisplayPort Adapter (optional)	HP	N9K78AA
HP USB-C to HDMI 2.0 Adapter (optional)	HP	1WU54AV
HP USB-C to RJ45 Adapter (optional)	HP	V7W66AA
HP USB-C to USB 3.0 Adapter (optional)	HP	P5U32AV
HP USB-C to VGA Adapter (optional)	HP	T4Q56AV
Digital Pen (optional)	HP	HPS21K2LUA

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Pre-test Mode

Mode	Main Board	CPU	Memory	LCD Panel	Touch Screen	SSD	Wireless LAN	Wireless WAN	Camera	Battery	Wireless Charger	HDMI to VGA Adapter (optional) HDMI to DVI Adapter (optional)	HP USB 3.0 to Gigabit Adapter (optional)	HP USB-C to DisplayPort Adapter (optional) HP USB-C to HDMI 2.0 Adapter (optional) HP USB-C to R.45 Adapter (optional) HP USB-C to USB 3.0 Adapter (optional) HP USB-C to VGA Adapter (optional)	Digital Pen (optional)	AC Adapter
1	Quanta OGR	Intel ALDER LAKE-P (0.8GHz)	LPDDR4X 4266 8GB	AUO B135QAN01.1	Henghao 8G0D501A	SSSTC CL1-3D128-HP (128GB)	Intel AX211D2W	Fibocom FM350-GL	Polight HSNL01	Dynapack HSTNN-DB9W	hp HSN-L01NFM	HP HSTNN-GD07	HP T4Q43AV	HP N9K78AA	HP HPS21K2LUA	AcBel TPN-AA07
2	Quanta OGR	Intel ALDER LAKE-P (1.0GHz)	LPDDR4X 4266 16GB	BOE NE135GXM-N61	Henghao 8G0D502A	SSSTC CL4-3D256-HP (256GB)	Intel AX211D2W	Fibocom L850-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	HP F5A28AA#xxx	N/A	HP 1WU54AV	HP HPS21K2LUA	Chicony TPN-CA20
3	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 32GB	INX N135NCG-GT1	Henghao 8G0D501B	Micron MTFDHB512QFD-1AX1AABHA (512GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP V7W66AA	HP HPS21K2LUA	Delta TPN-DA15
4	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	TPK T08ALC13509HA	Samsung MZ9LQ128CHQ-00BH1 (128GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP P5J32AV	HP HPS21K2LUA	Lite-On TPN-LA19
5	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	LGD LP135WU1	TPK T08ALC13510HA	Samsung MZ9LQ256HBJD-00BH1 (256GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	Chicony TPN-CA21
6	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	TPK T08ALC13509HB	Samsung MZVLQ0512HBLU-00BH1 (512GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	N/A	HP HPS21K2LUA	Delta TPN-DA20
7	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Kingston OM3PDP3128B-AH (128GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	Honor TPN-HA01
8	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Kingston OM3PDP3256B-AH (256GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	Lite-On TPN-LA23
9	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Kingston OM8SBP3512K-AH (512GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	AcBel TPN-AA07
10	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Phison PSEDN128GA17DC0 (128GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	AcBel TPN-AA07
11	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Western Digital SDBPPTZ-256G-1006 (256GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	AcBel TPN-AA07
12	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Western Digital SDBPNPZ-512G-1006 (512GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	Chicony TPN-CA21
13	Quanta OGR	Intel ALDER LAKE-P (1.2GHz)	LPDDR4X 4266 16GB	I/O X135NV42	Henghao 8G0D501A	Western Digital SDBPPTZ-256G-1006 (256GB)	Intel AX211D2W	Fibocom FM350-GL	TFC YHUE-8	Dynapack HSTNN-DB9W	hp HSN-L01NFM	N/A	HP T4Q43AV	HP T4Q56AV	HP HPS21K2LUA	Chicony TPN-CA21

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 11, 13 (2194 x 1463 Resolution)
Below 1GHz RE	Mode 11, 13 (2194 x 1463 Resolution)
Above 1GHz RE	Mode 11, 13 (2194 x 1463 Resolution)

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## 1.5 Description of Support Units

Mode 11, 13:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	Dell	P2418HT	CN-08P1KT-WS200-8AJ-EDTL-A08
Earphone	Lenovo	GS-4021M	57Y4488
Notebook PC (Remote)	Lenovo	TP00096C	SPP0R39691
Wireless AP (Remote)	ASUS	GT-AXE11000	M3IAJF201439
Micro SD 8G	Transcend	N/A	N/A
SIM card	N/A	N/A	N/A
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A

## Support Equipment Used in Tested Cable

Mode 11, 13:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
Type C Cable (2)	N/A	0.1m	Shielding
VGA Cable (3)	2	1.8m	Shielding
DC Power Cable (Type C) (4)	N/A	1.8m	Shielding
Earphone Cable (5)	N/A	1.8m	Non-Shielding
USB Cable (6)	N/A	0.1m	Shielding
LAN Cable (7)	N/A	10.0m	Non-Shielding

## 1.6 Operation Procedure

Mode 11, 13:

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

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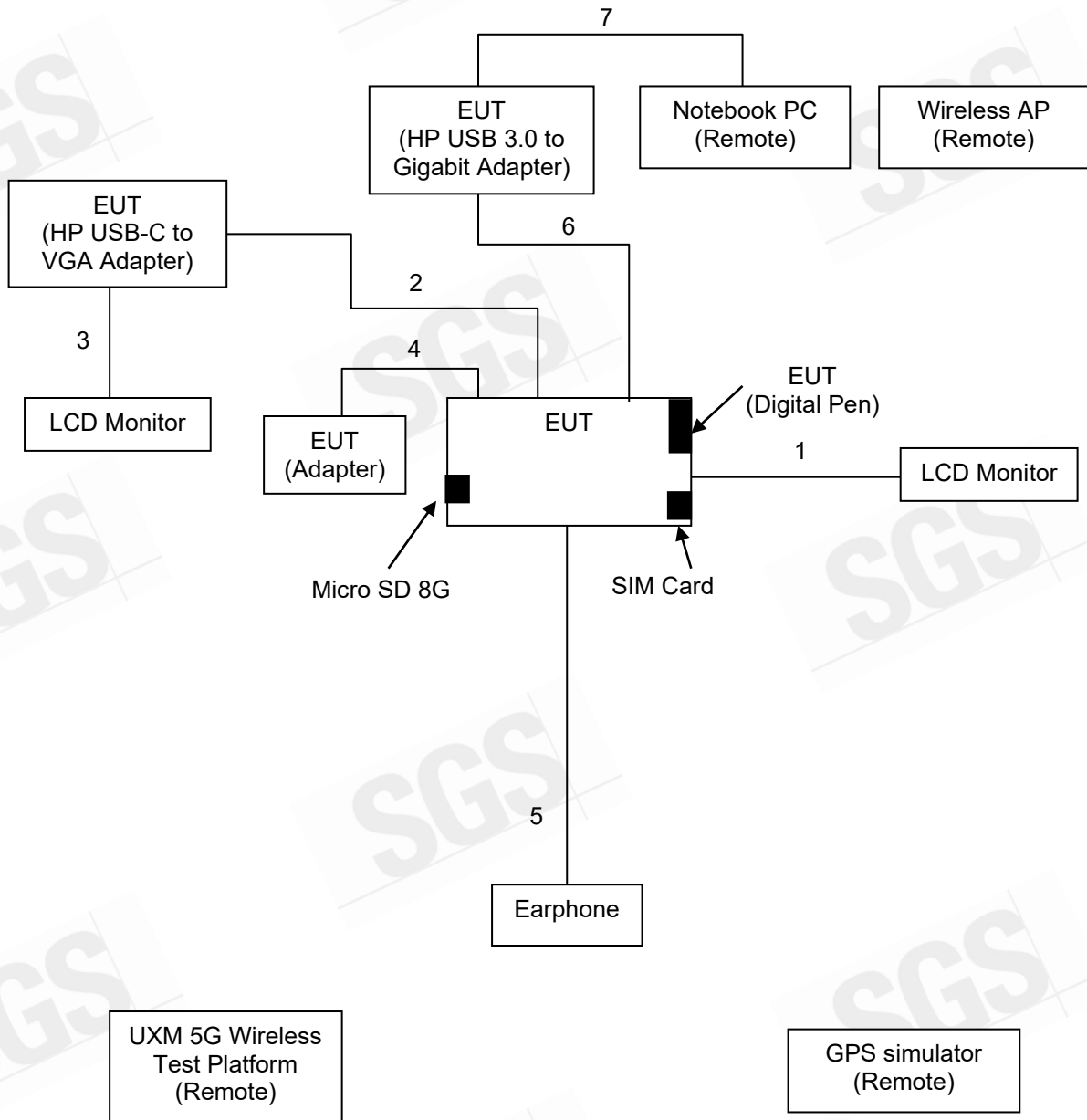
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## 1.7 Test Set-Up Configuration

Mode 11, 13:



## 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 5<sup>th</sup>harmonic of the highest frequency or 40GHz, whichever is lower.

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

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

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## 2.3 Limits of Conducted and Radiated Emission

### 2.3.1 Limits of Conducted Emission

#### 47 CFR FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

#### ICES-003:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56*	56 - 46*
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note: The more stringent limit applies at transition frequencies.

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

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### 2.3.2 Limits of Radiated Emissions

#### 47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

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

#### CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30~230	40	30
230~1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

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**ICES-003 Limit:**

- Detector Function : Quasi-peak

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

Note: The more stringent limit applies at transition frequencies

- Detector Function : Peak, Average

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

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

Conducted Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	EMCRG142	190809	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	101073	06/21/2021	06/20/2022
LISN	Schwarzbeck	NSLK8128	5012	04/07/2021	04/06/2022
LISN	SCHWARZBECK	NSLK 8127	01022	04/15/2021	04/14/2022
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U <sub>lab</sub> (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

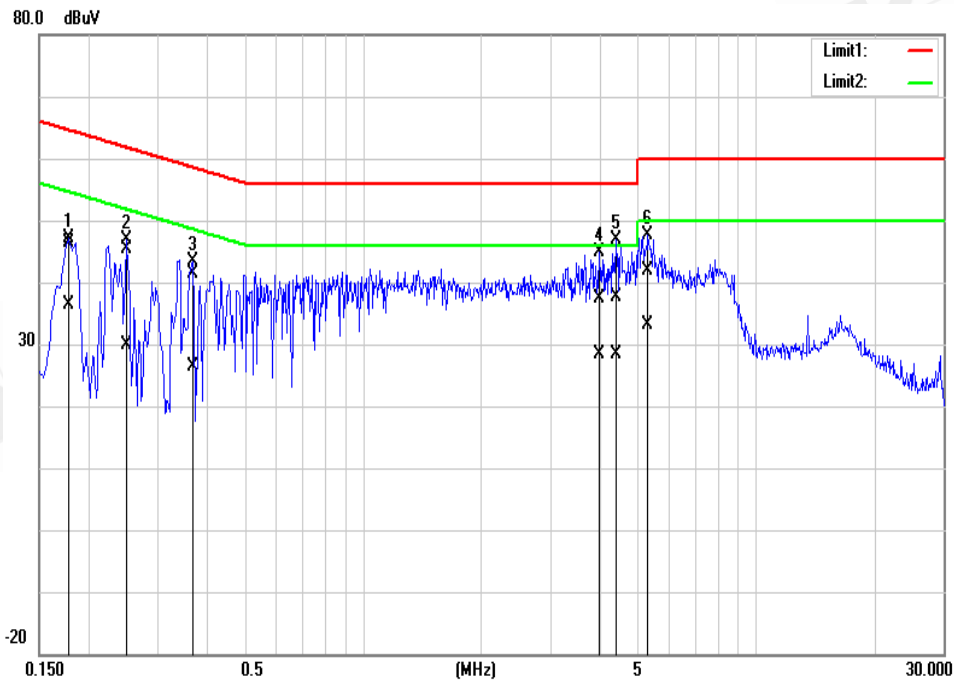
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2.4.3 Measurement Data:

Model no.	TPN-Q273	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2021/11/11
Test Mode	Mode 11	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	0.1780	46.20	36.32	0.14	46.34	36.46	64.57	54.58	-18.23	-18.12	Pass
2*	0.2500	45.30	29.77	0.14	45.44	29.91	61.75	51.76	-16.31	-21.85	Pass
3	0.3700	41.11	26.25	0.15	41.26	26.40	58.50	48.50	-17.24	-22.10	Pass
4	3.9860	37.13	28.02	0.28	37.41	28.30	56.00	46.00	-18.59	-17.70	Pass
5	4.4220	37.30	27.99	0.29	37.59	28.28	56.00	46.00	-18.41	-17.72	Pass
6	5.3260	41.47	32.76	0.31	41.78	33.07	60.00	50.00	-18.22	-16.93	Pass

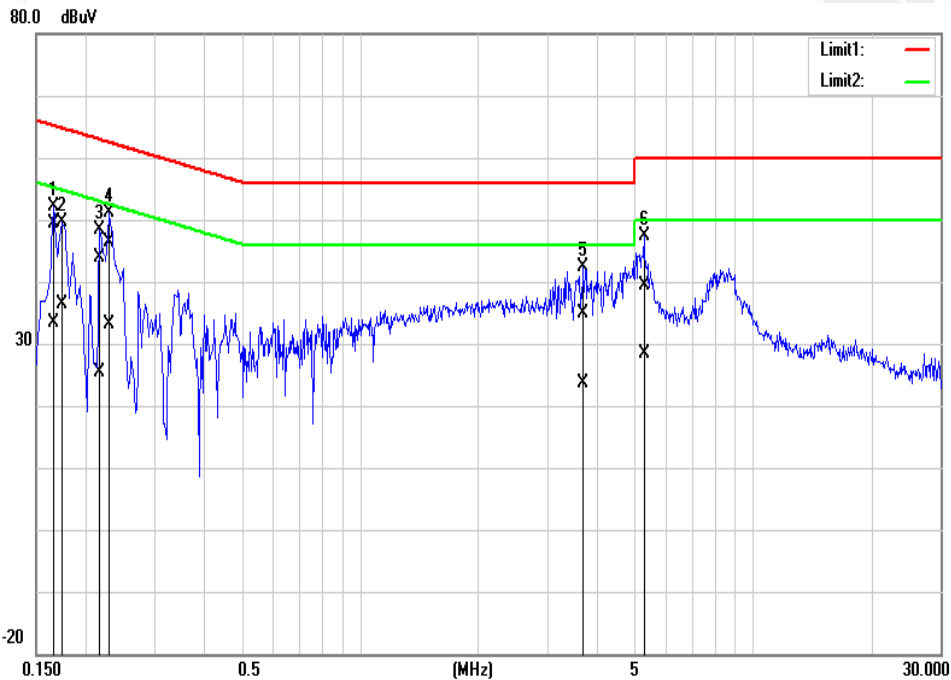
Note: L1 = Live Line

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Model no.	TPN-Q273	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2021/11/11
Test Mode	Mode 11	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	49.33	33.19	0.14	49.47	33.33	65.15	55.16	-15.68	-21.83	Pass
2*	0.1740	49.51	36.34	0.14	49.65	36.48	64.76	54.77	-15.11	-18.29	Pass
3	0.2180	43.70	25.14	0.15	43.85	25.29	62.89	52.89	-19.04	-27.60	Pass
4	0.2300	46.18	32.91	0.15	46.33	33.06	62.45	52.45	-16.12	-19.39	Pass
5	3.7140	34.72	23.45	0.28	35.00	23.73	56.00	46.00	-21.00	-22.27	Pass
6	5.2780	39.02	28.06	0.32	39.34	28.38	60.00	50.00	-20.66	-21.62	Pass

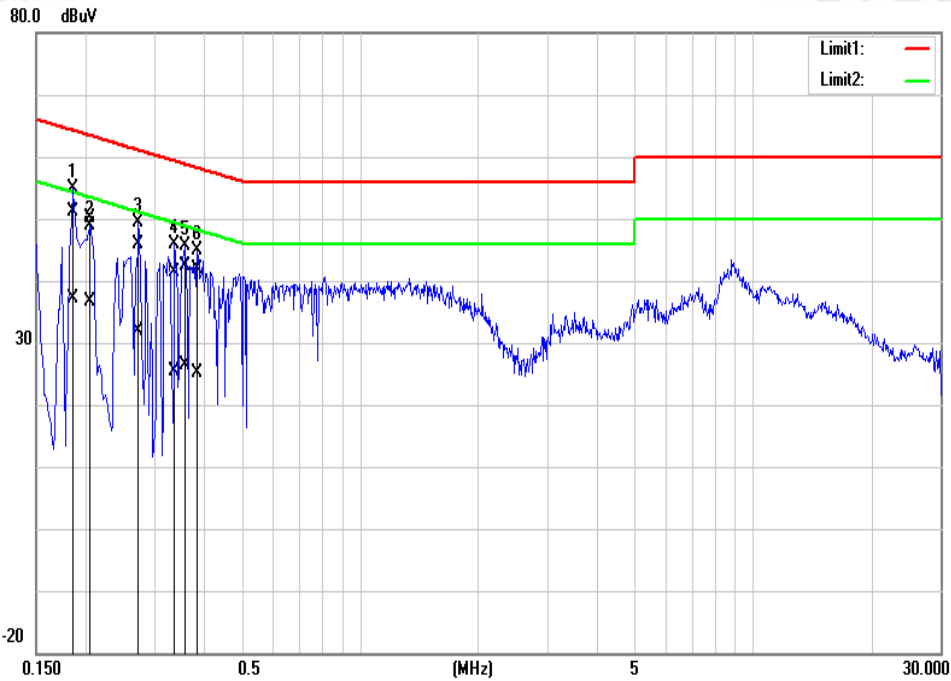
Note: N = Neutral Line

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Model no.	TPN-Q273	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2021/11/11
Test Mode	Mode 13	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*	0.1860	50.96	37.07	0.14	51.10	37.21	64.21	54.21	-13.11	-17.00	Pass
2	0.2060	50.08	36.42	0.14	50.22	36.56	63.36	53.37	-13.14	-16.81	Pass
3	0.2740	45.74	31.73	0.14	45.88	31.87	60.99	51.00	-15.11	-19.13	Pass
4	0.3379	41.22	25.19	0.15	41.37	25.34	59.25	49.25	-17.88	-23.91	Pass
5	0.3580	42.16	26.34	0.15	42.31	26.49	58.77	48.77	-16.46	-22.28	Pass
6	0.3860	41.63	25.01	0.15	41.78	25.16	58.15	48.15	-16.37	-22.99	Pass

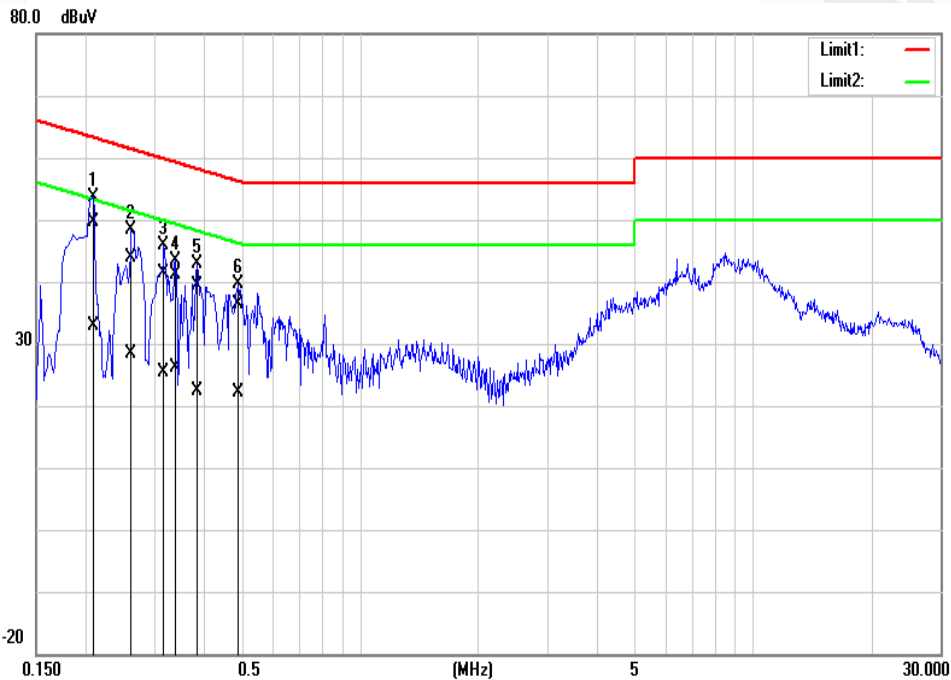
Note: L1 = Live Line

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Model no.	TPN-Q273	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2021/11/11
Test Mode	Mode 13	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*	0.2100	49.36	32.85	0.15	49.51	33.00	63.20	53.21	-13.69	-20.21	Pass
2	0.2620	43.75	28.34	0.15	43.90	28.49	61.36	51.37	-17.46	-22.88	Pass
3	0.3180	41.12	25.17	0.17	41.29	25.34	59.76	49.76	-18.47	-24.42	Pass
4	0.3392	40.95	25.95	0.17	41.12	26.12	59.22	49.22	-18.10	-23.10	Pass
5	0.3860	39.29	22.14	0.17	39.46	22.31	58.15	48.15	-18.69	-25.84	Pass
6	0.4900	36.31	21.90	0.17	36.48	22.07	56.17	46.17	-19.69	-24.10	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 U <sub>lab</sub> (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	11/25/2021	11/24/2022
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 U <sub>lab</sub> (k=2) of Radiated Emission measurement is 4.94 dB. (1-6GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 5.24 dB. (6-18GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 4.28 dB. (18-40GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB. (1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB. (6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB. (18-40GHz)					

**2.5.2 Measurement Level Calculation**

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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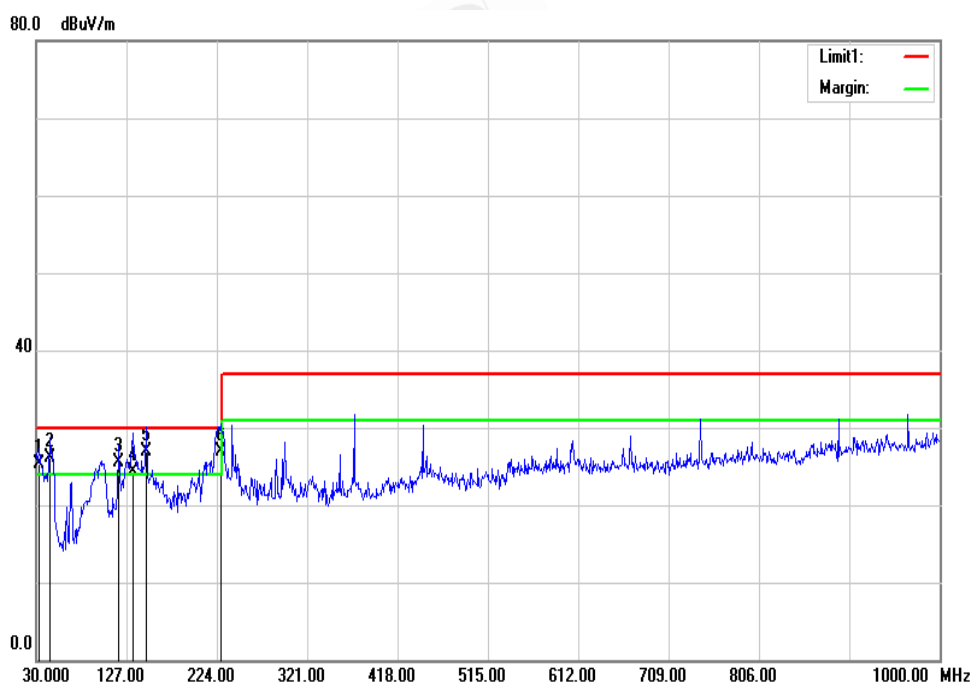
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### 2.5.3 Measurement Data

#### Below 1GHz

Model no.	TPN-Q273	Test Mode	Mode 11
Environmental Conditions	26°C, 60% RH	Tested Date	2021/12/07
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Lowka Chen
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.9100	29.13	-3.85	25.28	30.00	-4.72	100	125	QP
2	44.5500	36.52	-10.33	26.19	30.00	-3.81	199	171	QP
3	118.2700	33.37	-7.93	25.44	30.00	-4.56	100	185	QP
4	133.7900	32.50	-8.12	24.38	30.00	-5.62	100	336	QP
5	148.3400	35.71	-8.85	26.86	30.00	-3.14	100	118	QP
6	227.8800	35.39	-8.48	26.91	30.00	-3.09	100	282	QP

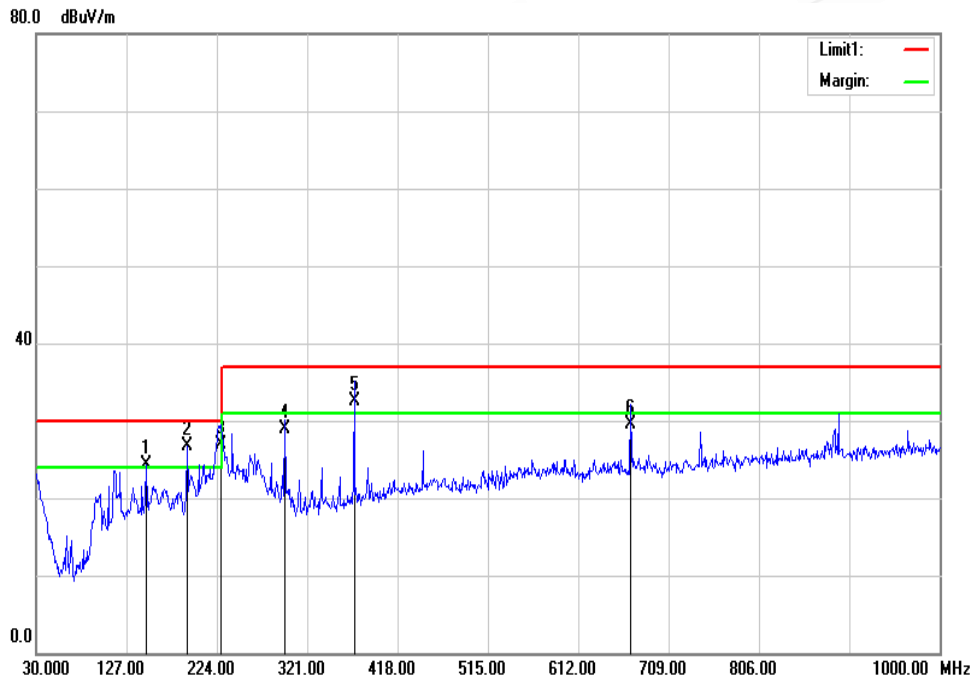
**REMARKS:** The other emission levels were very low against the limit.

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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 11
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	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	148.3400	34.40	-10.12	24.28	30.00	-5.72	399	0	QP
2	191.9900	37.94	-11.29	26.65	30.00	-3.35	300	0	QP
3	227.8800	36.92	-10.03	26.89	30.00	-3.11	300	341	QP
4	296.7500	35.07	-6.15	28.92	37.00	-8.08	381	0	QP
5	371.4400	37.14	-4.60	32.54	37.00	-4.46	300	66	QP
6	668.2600	29.80	-0.24	29.56	37.00	-7.44	399	0	QP

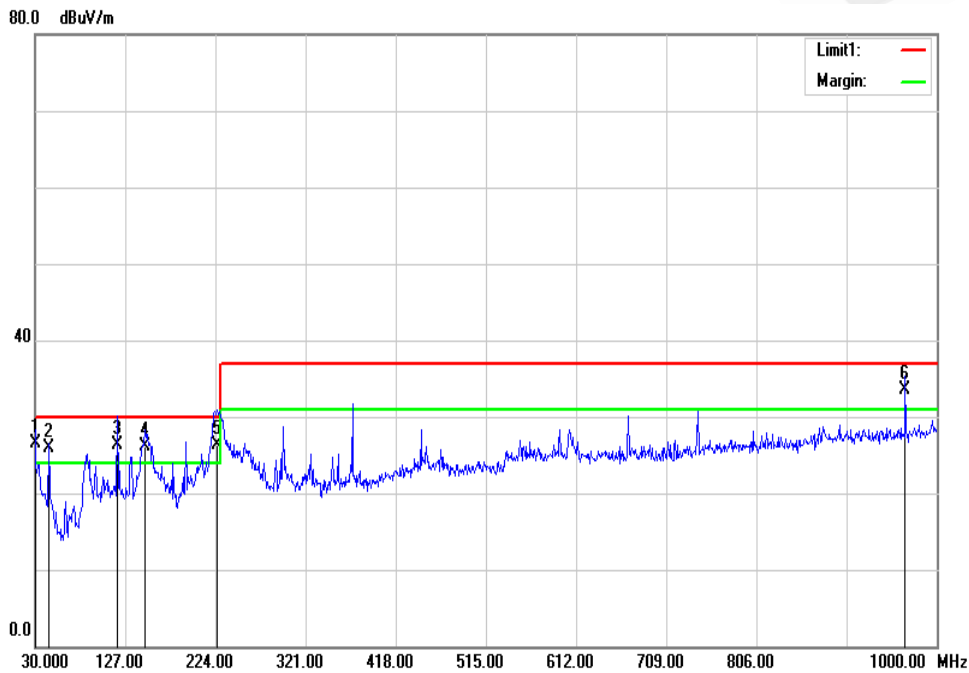
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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 13
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	28.82	-2.28	26.54	30.00	-3.46	100	334	QP
2	44.5500	36.31	-10.33	25.98	30.00	-4.02	199	35	QP
3	118.2700	34.14	-7.93	26.21	30.00	-3.79	100	59	QP
4	148.3400	35.05	-8.85	26.20	30.00	-3.80	100	121	QP
5	225.9400	35.09	-8.71	26.38	30.00	-3.62	100	273	QP
6	966.0500	27.62	5.92	33.54	37.00	-3.46	199	0	QP

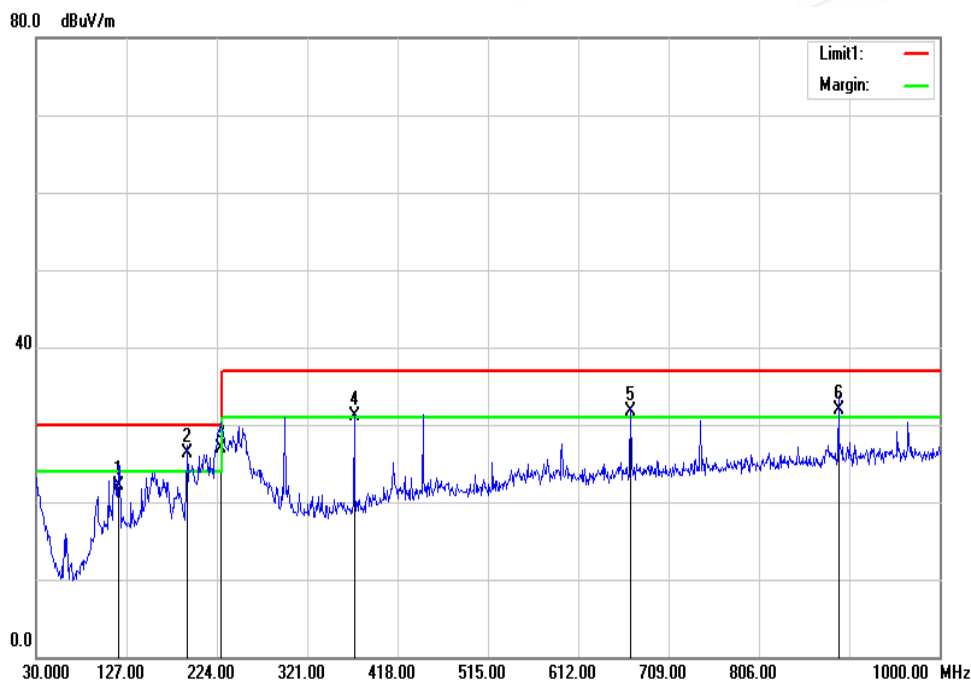
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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 13
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	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	118.2700	30.99	-8.87	22.12	30.00	-7.88	400	359	QP
2	191.9900	37.54	-11.29	26.25	30.00	-3.75	300	61	QP
3	227.8800	36.94	-10.03	26.91	30.00	-3.09	400	325	QP
4	371.4400	35.80	-4.60	31.20	37.00	-5.80	300	61	QP
5	668.2600	32.03	-0.24	31.79	37.00	-5.21	399	0	QP
6	891.3600	29.39	2.61	32.00	37.00	-5.00	400	219	QP

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

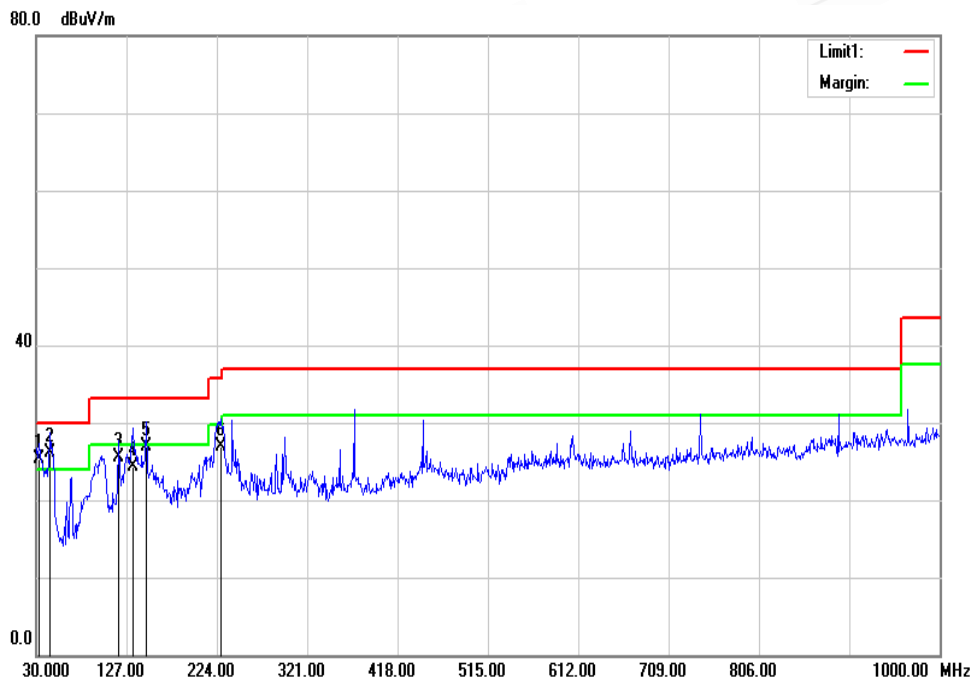
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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 11
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.9100	29.13	-3.85	25.28	30.00	-4.72	100	125	QP
2	44.5500	36.52	-10.33	26.19	30.00	-3.81	199	171	QP
3	118.2700	33.37	-7.93	25.44	33.10	-7.66	100	185	QP
4	133.7900	32.50	-8.12	24.38	33.10	-8.72	100	336	QP
5	148.3400	35.71	-8.85	26.86	33.10	-6.24	100	118	QP
6	227.8800	35.39	-8.48	26.91	35.60	-8.69	100	282	QP

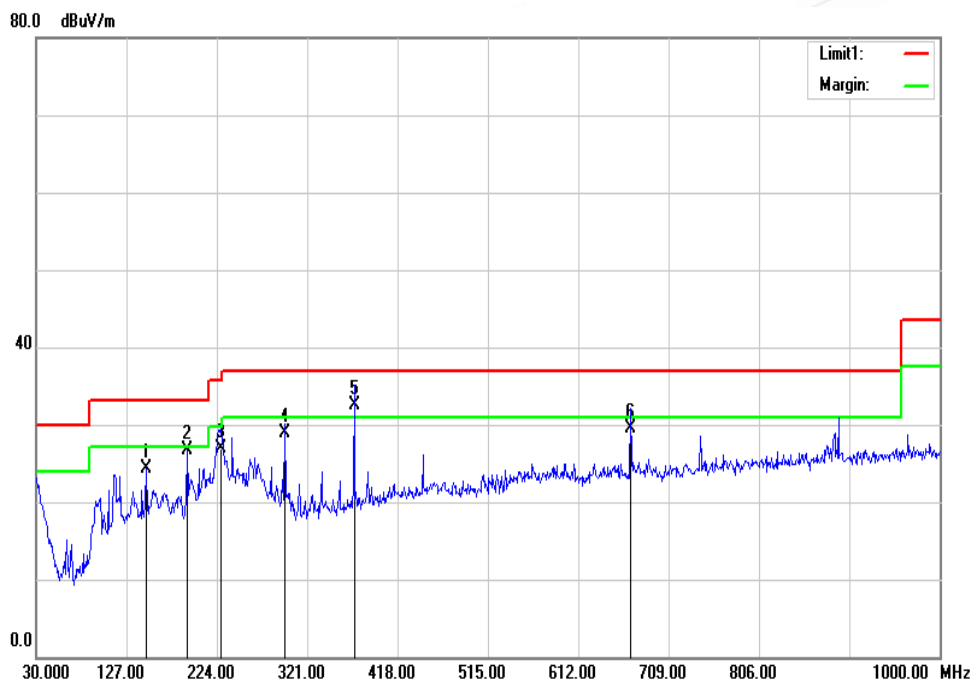
**REMARKS:** The other emission levels were very low against the limit.

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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 11
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	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	148.3400	34.40	-10.12	24.28	33.10	-8.82	399	0	QP
2	191.9900	37.94	-11.29	26.65	33.10	-6.45	300	0	QP
3	227.8800	36.92	-10.03	26.89	35.60	-8.71	300	341	QP
4	296.7500	35.07	-6.15	28.92	37.00	-8.08	381	0	QP
5	371.4400	37.14	-4.60	32.54	37.00	-4.46	300	66	QP
6	668.2600	29.80	-0.24	29.56	37.00	-7.44	399	0	QP

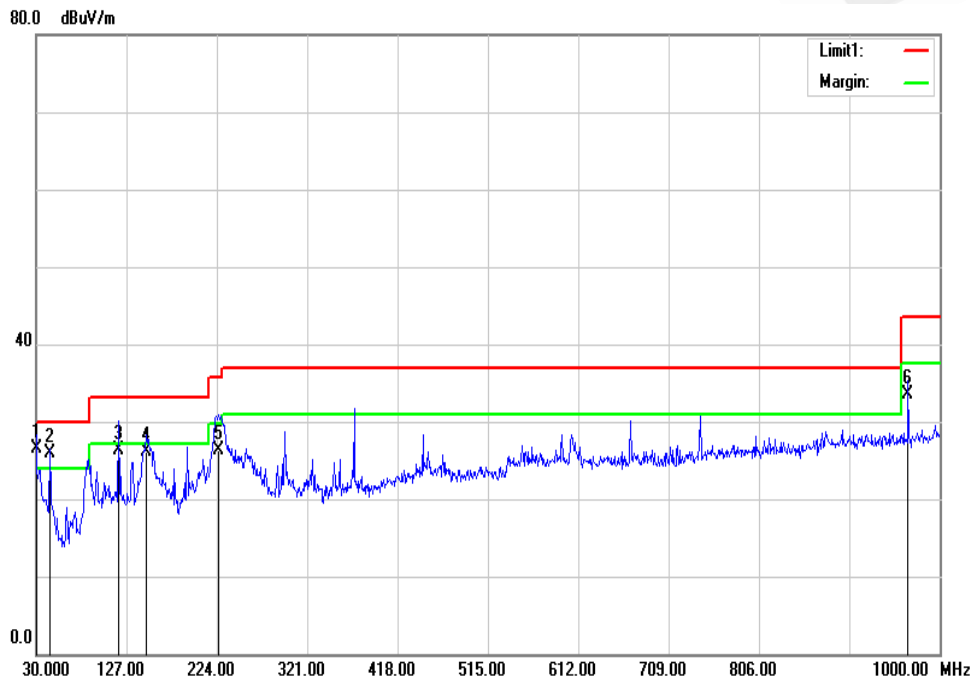
**REMARKS:** The other emission levels were very low against the limit.

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Model no.	TPN-Q273	Test Mode	Mode 13
Environmental Conditions	26°C, 60% RH	Tested Date	2021/12/07
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Lowka Chen
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	28.82	-2.28	26.54	30.00	-3.46	100	334	QP
2	44.5500	36.31	-10.33	25.98	30.00	-4.02	199	35	QP
3	118.2700	34.14	-7.93	26.21	33.10	-6.89	100	59	QP
4	148.3400	35.05	-8.85	26.20	33.10	-6.90	100	121	QP
5	225.9400	35.09	-8.71	26.38	35.60	-9.22	100	273	QP
6	966.0500	27.62	5.92	33.54	43.50	-9.96	199	0	QP

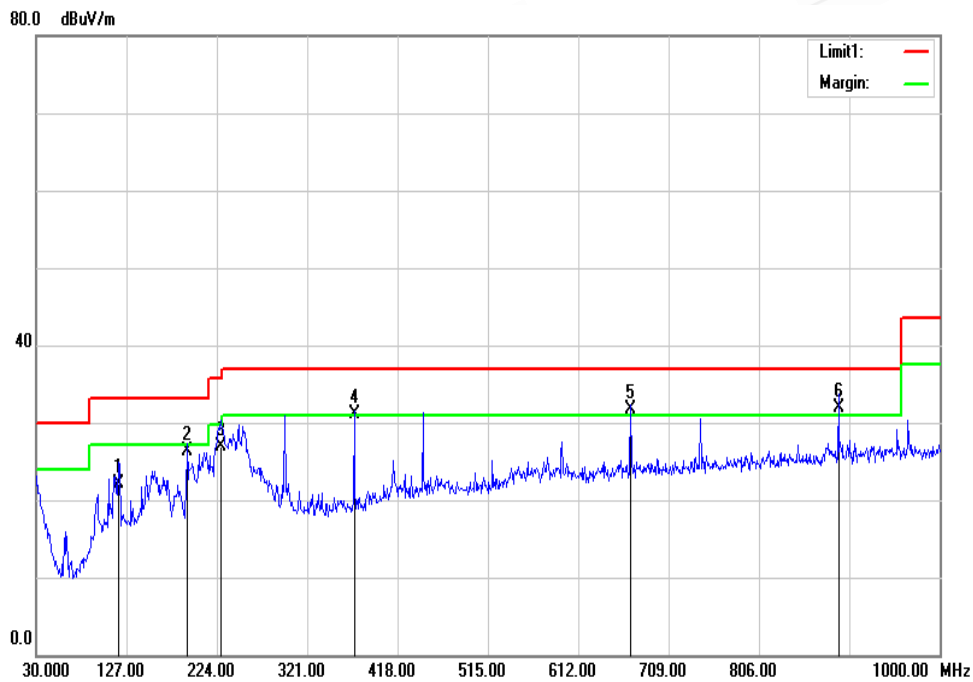
**REMARKS:** The other emission levels were very low against the limit.

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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 13
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	TCOP RE site 17
<b>Standard</b>	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	118.2700	30.99	-8.87	22.12	33.10	-10.98	400	359	QP
2	191.9900	37.54	-11.29	26.25	33.10	-6.85	300	61	QP
3	227.8800	36.94	-10.03	26.91	35.60	-8.69	400	325	QP
4	371.4400	35.80	-4.60	31.20	37.00	-5.80	300	61	QP
5	668.2600	32.03	-0.24	31.79	37.00	-5.21	399	0	QP
6	891.3600	29.39	2.61	32.00	37.00	-5.00	400	219	QP

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

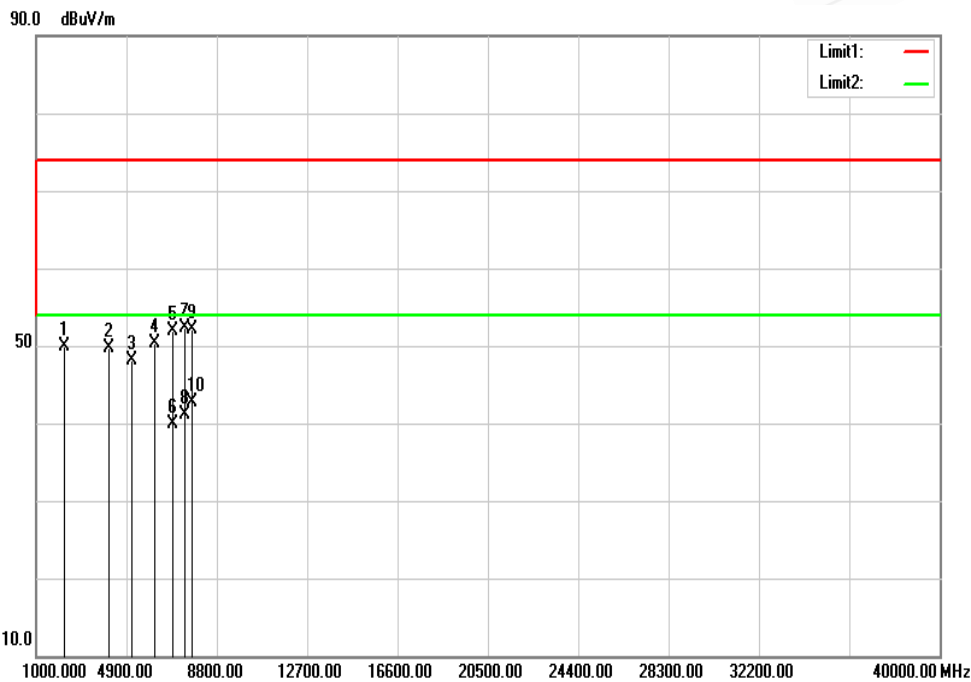
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## Above 1GHz

Model no.	TPN-Q273	Test Mode	Mode 11
Environmental Conditions	26°C, 60% RH	Tested Date	2021/12/07
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Lowka Chen
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	2228.500	63.20	-13.39	49.81	74.00	-24.19	200	201	peak
2	4159.000	59.92	-10.30	49.62	74.00	-24.38	200	186	peak
3	5153.500	55.16	-7.11	48.05	74.00	-25.95	100	0	peak
4	6109.000	54.51	-4.22	50.29	74.00	-23.71	300	133	peak
5	6908.500	55.32	-3.35	51.97	74.00	-22.03	300	194	peak
6	6908.500	43.22	-3.35	39.87	54.00	-14.13	300	194	AVG
7	7396.000	55.11	-2.80	52.31	74.00	-21.69	100	141	peak
8	7396.000	43.92	-2.80	41.12	54.00	-12.88	100	141	AVG
9	7766.500	54.96	-2.77	52.19	74.00	-21.81	200	87	peak
10	7766.500	45.40	-2.77	42.63	54.00	-11.37	200	87	AVG

### REMARKS:

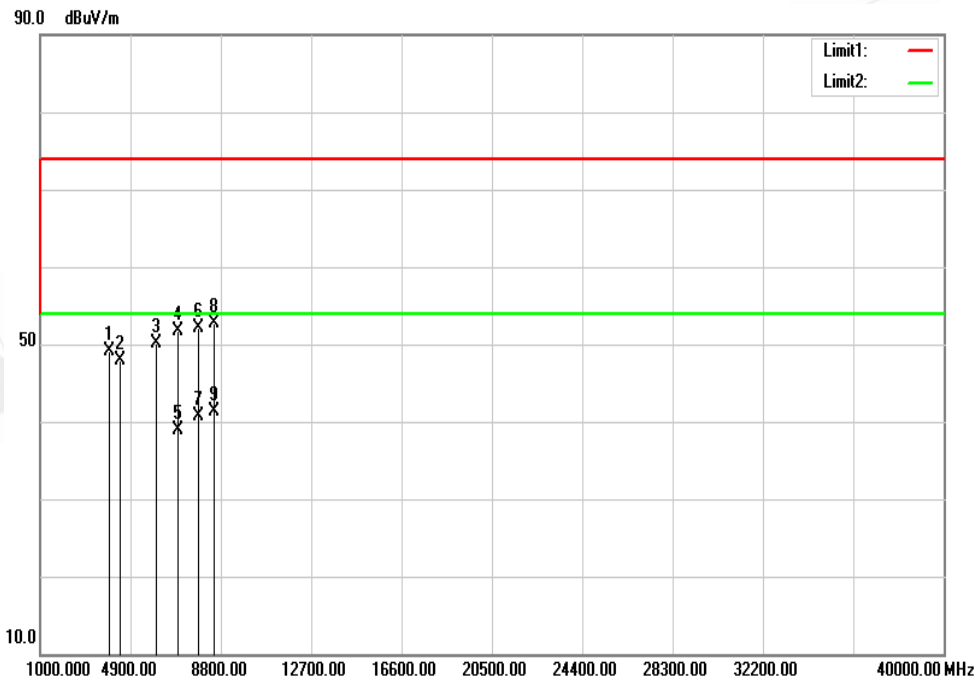
- The other emission levels were very low against the limit.
- Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	TPN-Q273	Test Mode	Mode 11
Environmental Conditions	26°C, 60% RH	Tested Date	2021/12/07
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Lowka Chen
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	4003.000	59.89	-10.83	49.06	74.00	-24.94	400	173	peak
2	4451.500	56.85	-8.91	47.94	74.00	-26.06	300	218	peak
3	6031.000	54.10	-3.94	50.16	74.00	-23.84	300	1	peak
4	6908.500	55.12	-3.35	51.77	74.00	-22.23	400	359	peak
5	6908.500	42.27	-3.35	38.92	54.00	-15.08	400	359	AVG
6	7825.000	54.84	-2.82	52.02	74.00	-21.98	200	333	peak
7	7825.000	43.55	-2.82	40.73	54.00	-13.27	200	333	AVG
8	8488.000	55.03	-2.31	52.72	74.00	-21.28	400	0	peak
9	8488.000	43.69	-2.31	41.38	54.00	-12.62	400	0	AVG

**REMARKS:**

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

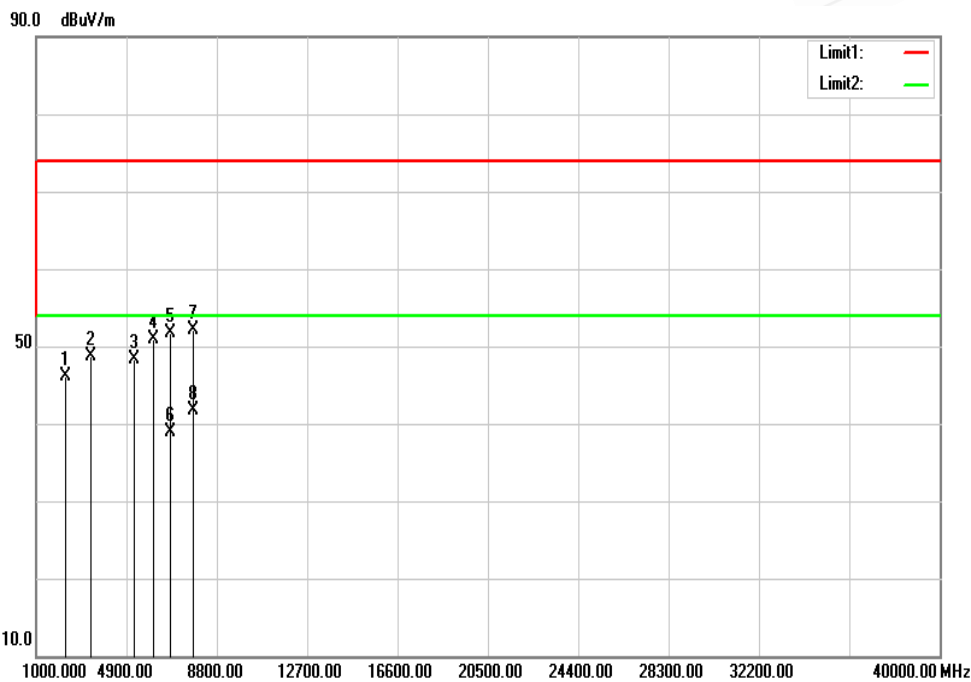
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<b>Model no.</b>	TPN-Q273	<b>Test Mode</b>	Mode 13
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Tested Date</b>	2021/12/07
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	3m
<b>Highest frequency generated or used</b>	7.1GHz	<b>Upper frequency</b>	35.5GHz
<b>Detector Function</b>	Peak & Average	<b>Tested By</b>	Lowka Chen
<b>6dB Bandwidth</b>	1 MHz	<b>Identifier number</b>	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	2228.500	59.40	-13.39	46.01	74.00	-27.99	100	265	peak
2	3340.000	60.34	-11.60	48.74	74.00	-25.26	200	311	peak
3	5192.500	55.34	-7.09	48.25	74.00	-25.75	300	326	peak
4	6050.500	55.02	-4.15	50.87	74.00	-23.13	100	135	peak
5	6791.500	55.23	-3.55	51.68	74.00	-22.32	100	135	peak
6	6791.500	42.47	-3.55	38.92	54.00	-15.08	100	135	AVG
7	7786.000	54.95	-2.77	52.18	74.00	-21.82	200	42	peak
8	7786.000	44.42	-2.77	41.65	54.00	-12.35	200	42	AVG

**REMARKS:**

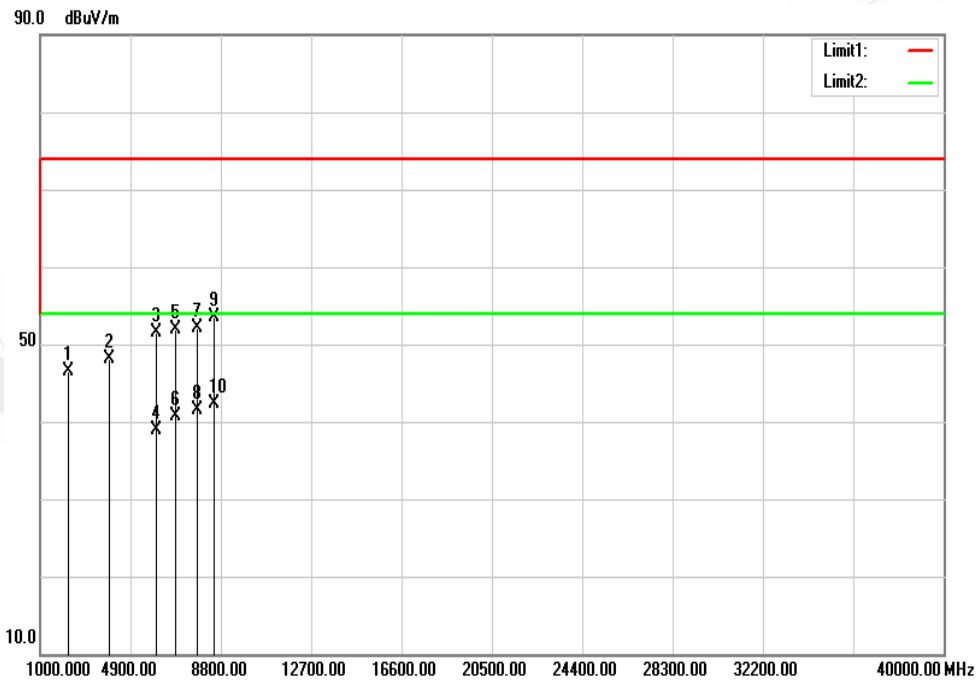
- The other emission levels were very low against the limit.
- Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Model no.	TPN-Q273	Test Mode	Mode 13
Environmental Conditions	26°C, 60% RH	Tested Date	2021/12/07
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Lowka Chen
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	2228.500	59.83	-13.39	46.44	74.00	-27.56	100	188	peak
2	4003.000	58.92	-10.83	48.09	74.00	-25.91	300	180	peak
3	6011.500	55.26	-3.73	51.53	74.00	-22.47	400	292	peak
4	6011.500	42.65	-3.73	38.92	54.00	-15.08	400	292	AVG
5	6869.500	55.09	-3.20	51.89	74.00	-22.11	200	212	peak
6	6869.500	43.83	-3.20	40.63	54.00	-13.37	200	212	AVG
7	7805.500	54.89	-2.78	52.11	74.00	-21.89	400	212	peak
8	7805.500	44.35	-2.78	41.57	54.00	-12.43	400	212	AVG
9	8488.000	55.77	-2.31	53.46	74.00	-20.54	300	276	peak
10	8488.000	44.55	-2.31	42.24	54.00	-11.76	300	276	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.: TPN-Q273

Mode\_11\_+



Mode\_11\_-



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Model No.: TPN-Q273  
Mode\_13\_+



Mode\_13\_-



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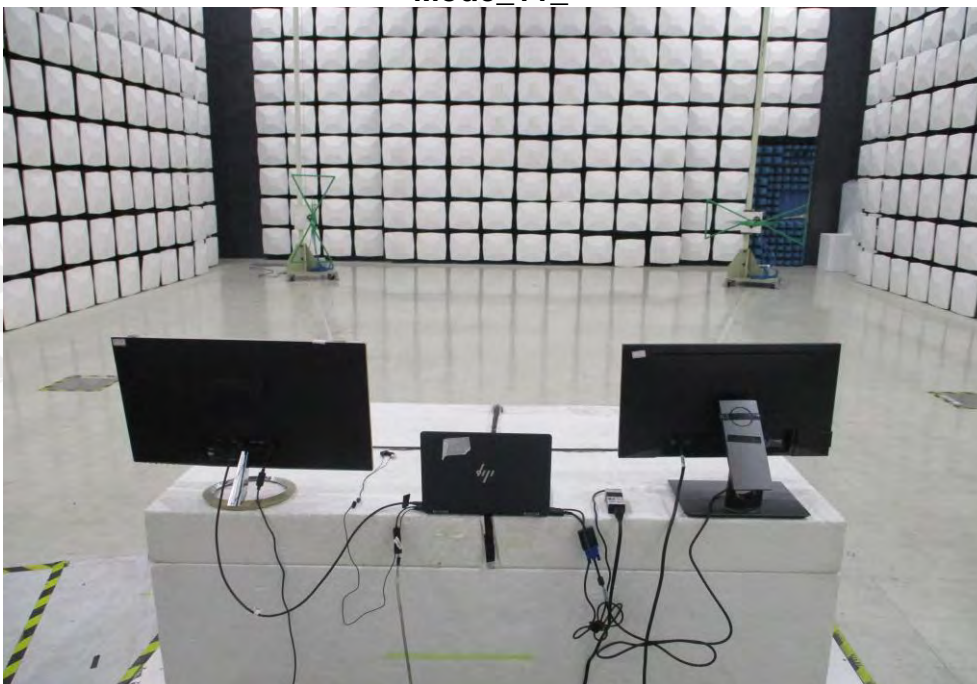
**RE Testing Set-up  
Below 1GHz**

**Model No.: TPN-Q273**

**Mode\_11\_+**



**Mode\_11\_-**



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Model No.: TPN-Q273  
Mode 13 +



Mode 13 -



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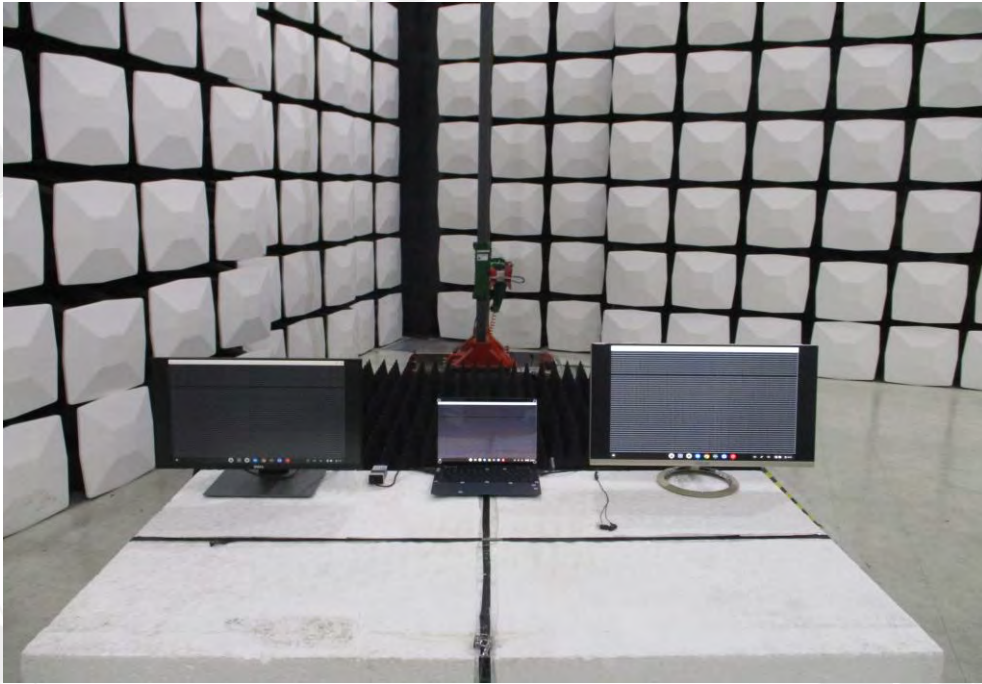
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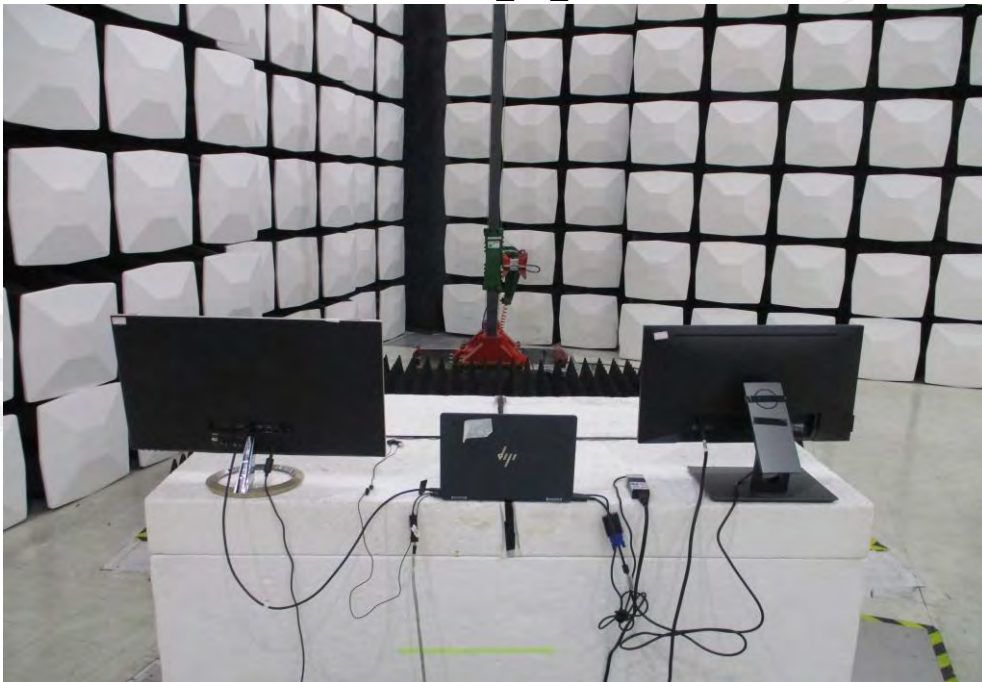
Above 1GHz

Model No.: TPN-Q273

Mode\_11\_+



Mode\_11\_-

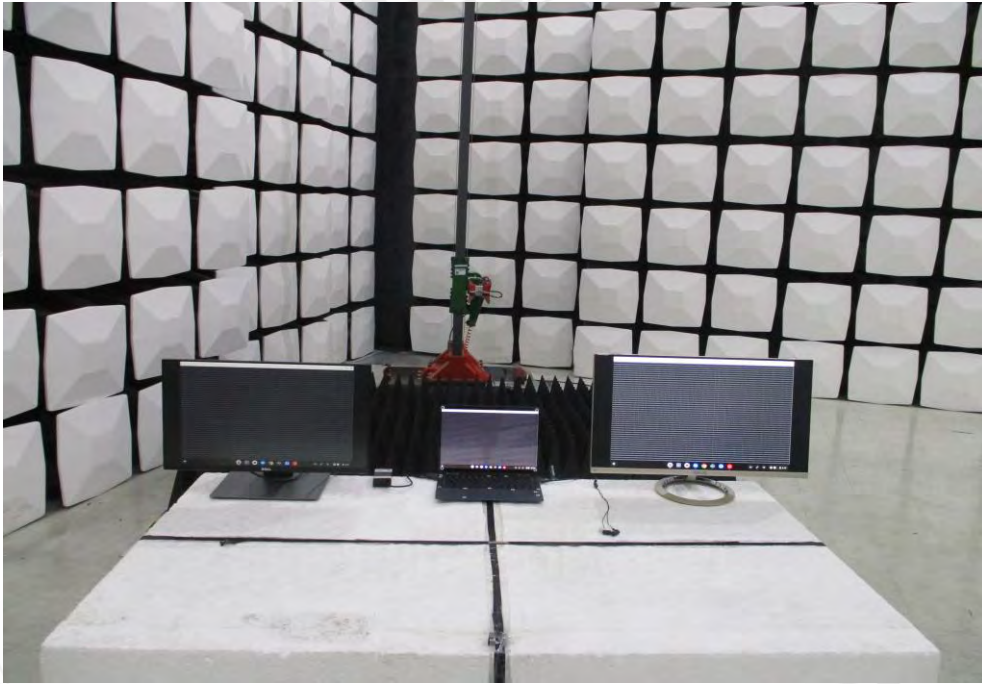


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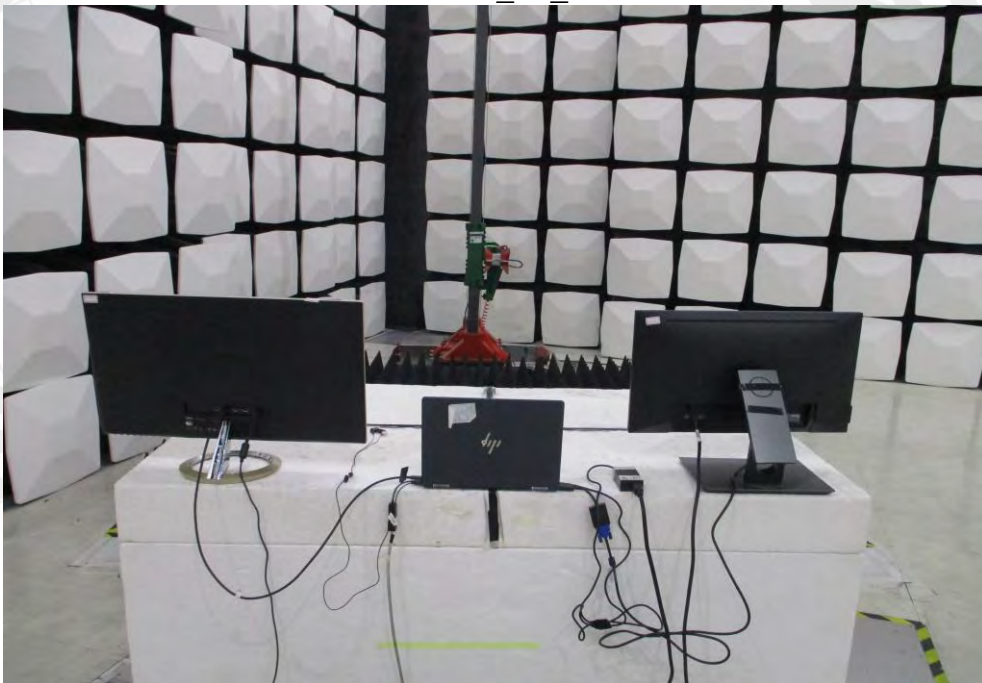
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Model No.: TPN-Q273  
Mode\_13\_+



Mode\_13\_-



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## Photographs of Product Exterior

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## Adapter Model No.: TPN-AA07



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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-DA15



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## Adapter Model No.: TPN-HA01



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## Adapter Model No.: TPN-LA19



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## Adapter Model No.: TPN-LA23



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## HDMI to VGA Adapter Model No.: HSTNN-GD07



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## HDMI to DVI Adapter Model No.: F5A28AA#xxx



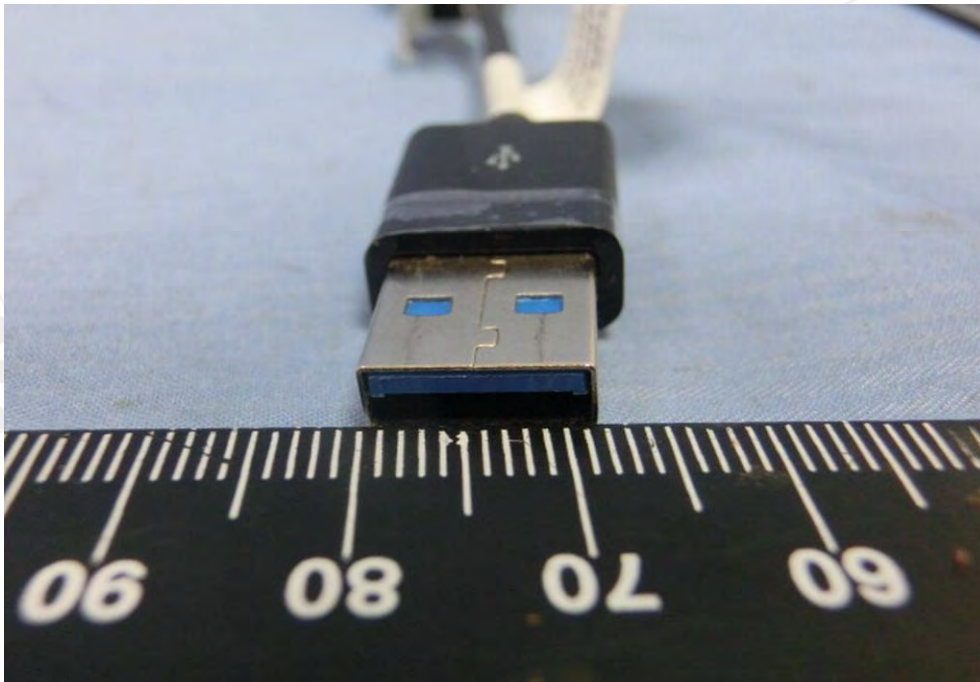
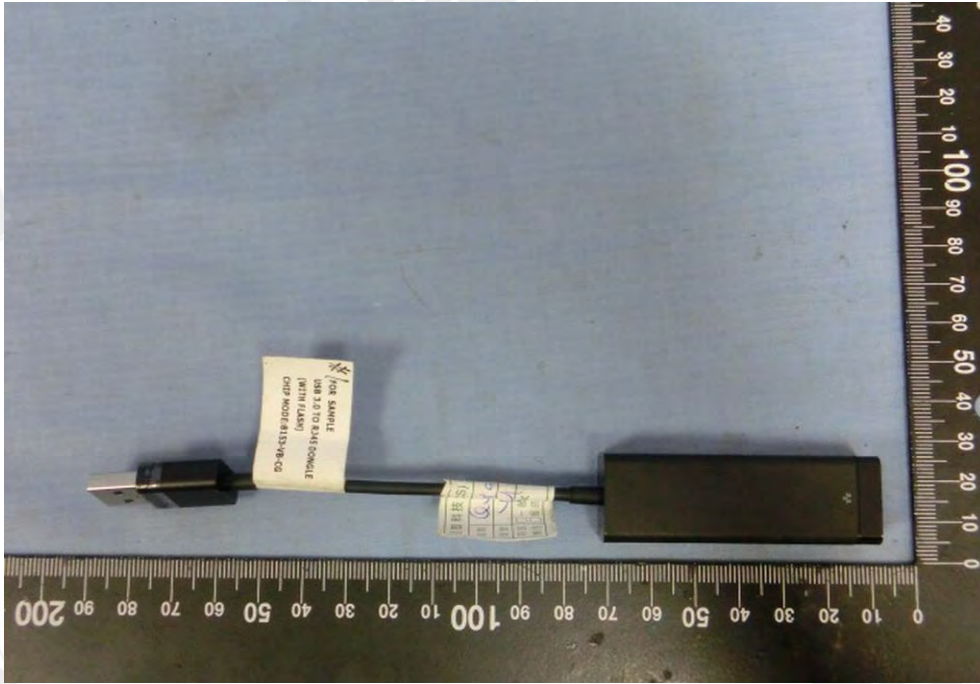
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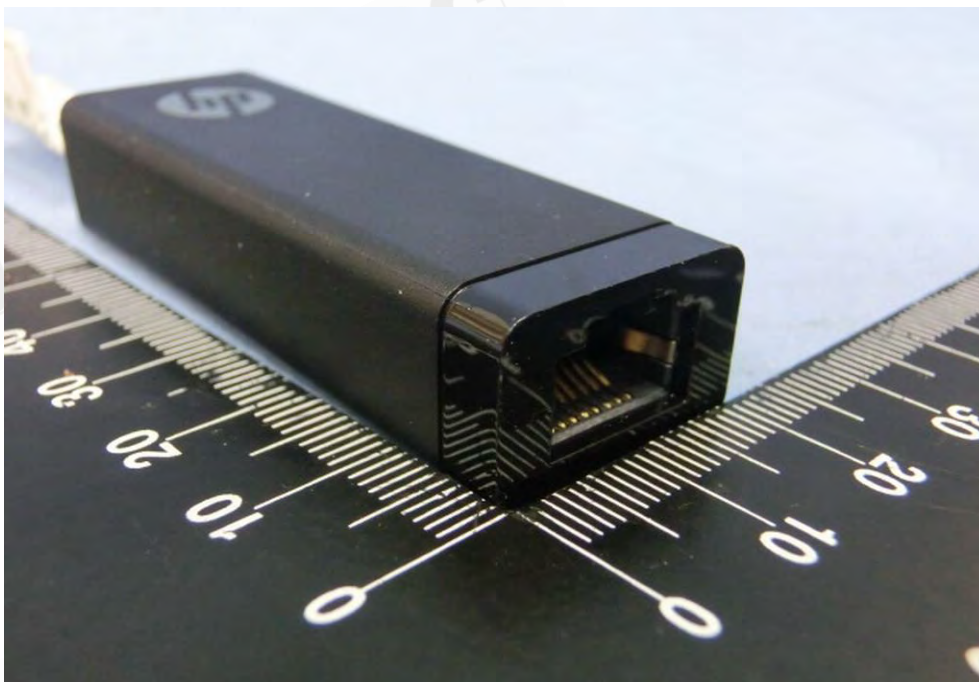
## HP USB 3.0 to Gigabit Adapter Model No.: T4Q43AV



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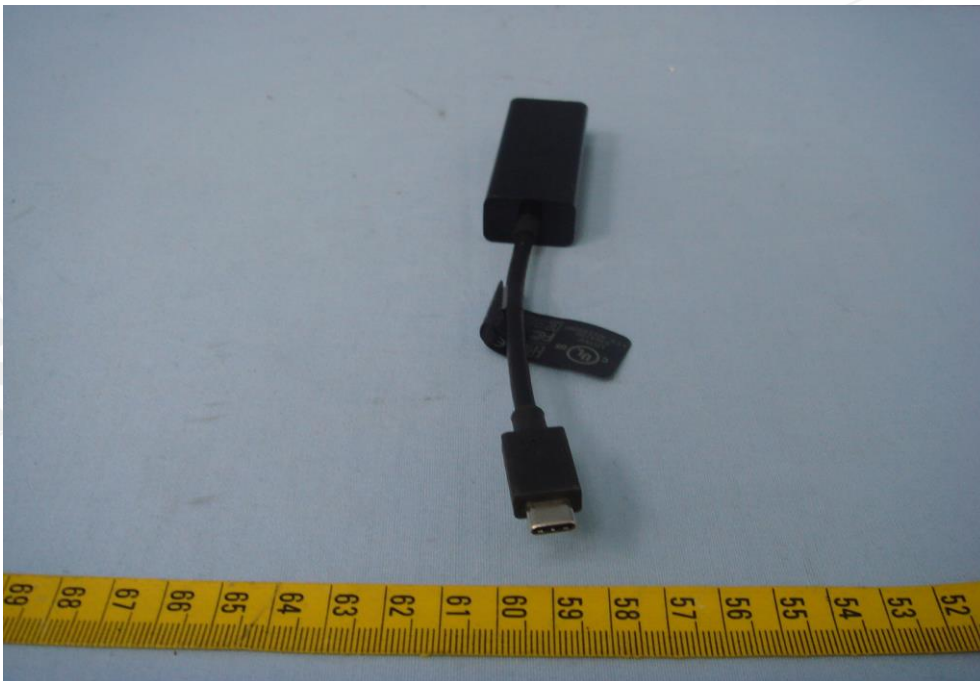
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## HP USB-C to DisplayPort Adapter Model No.: N9K78AA



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## HP USB-C to HDMI 2.0 Adapter Model No.: 1WU54AV

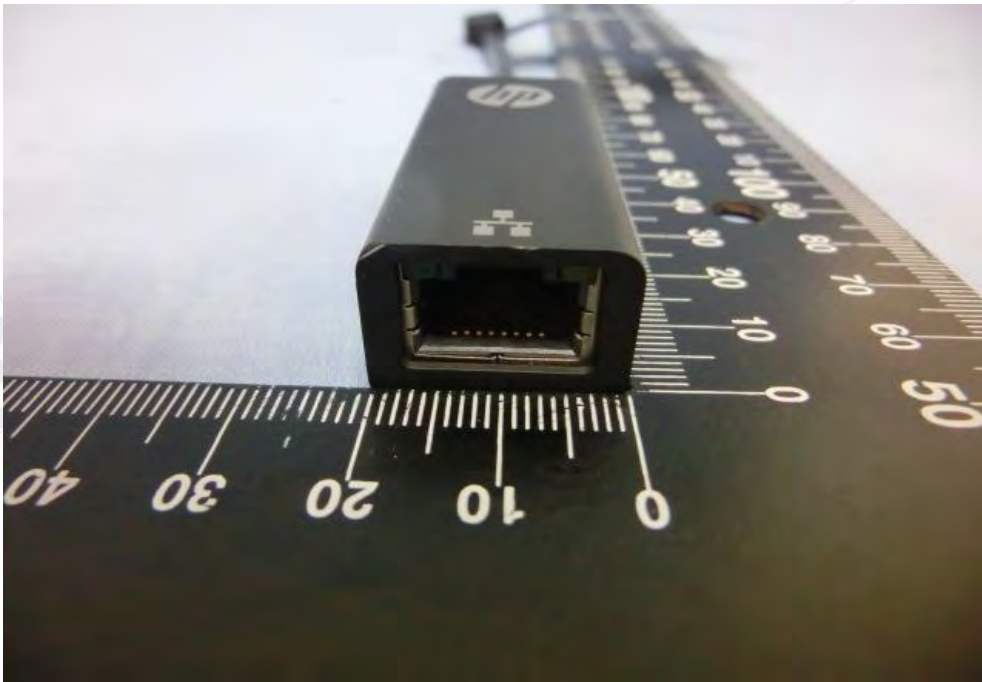


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## HP USB-C to RJ45 Adapter Model No.: V7W66AA

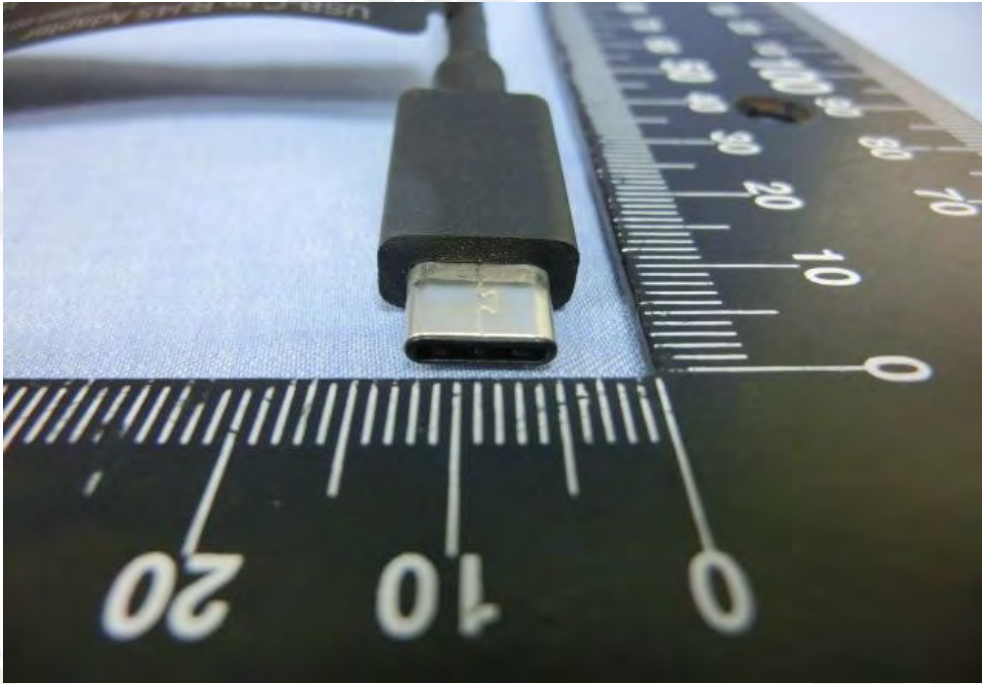


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## HP USB-C to USB 3.0 Adapter Model No.: P5U32AV

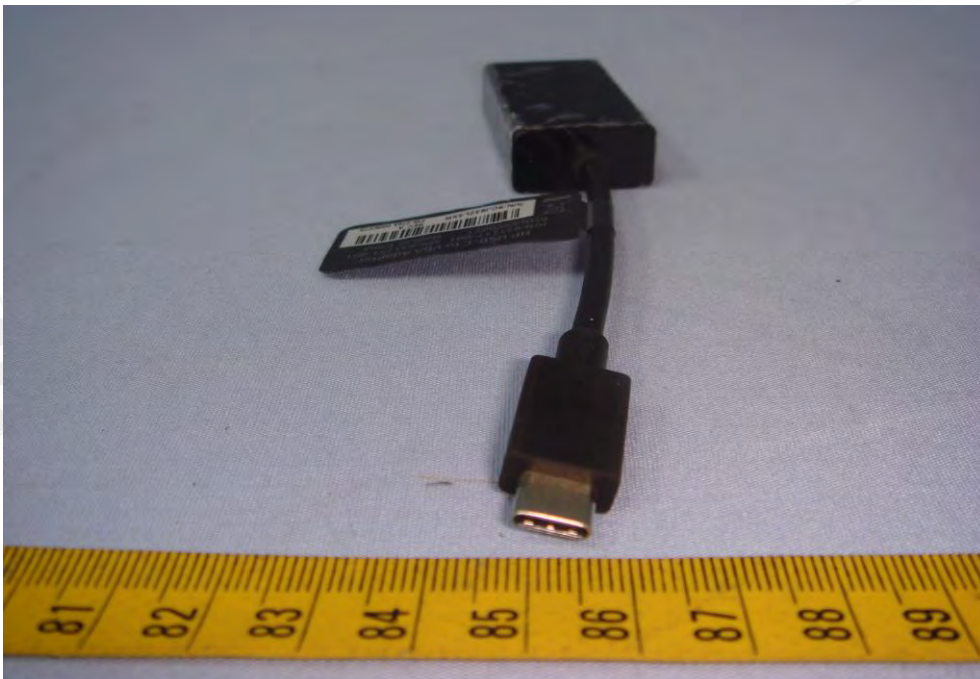


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## HP USB-C to VGA Adapter Model No.: T4Q56AV



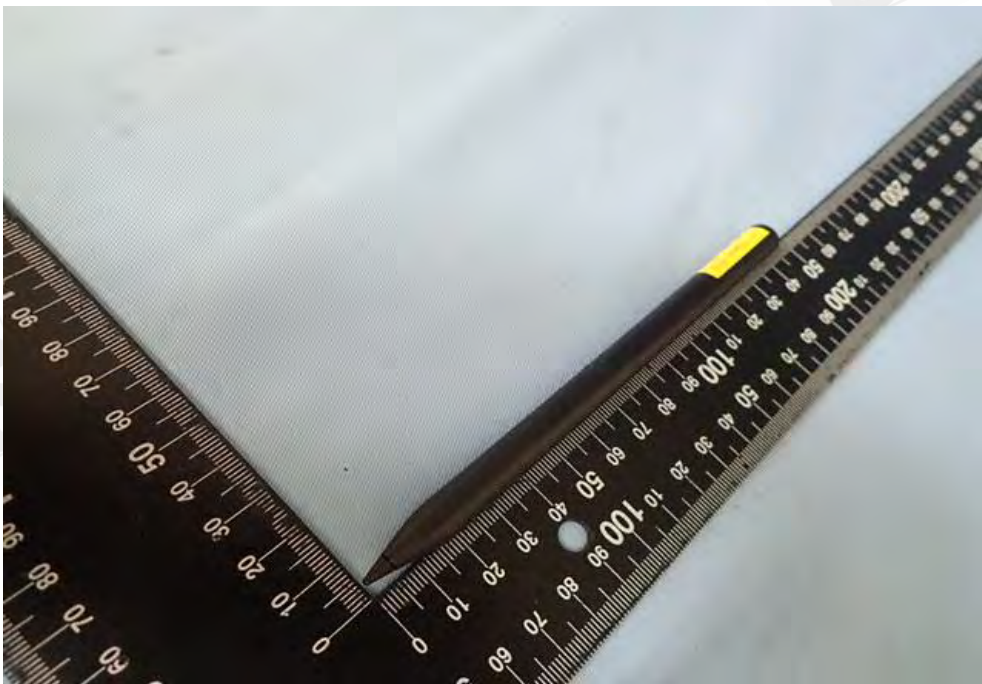
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## Digital Pen Model No.: HPS21K2LUA



**\*\* End of Report \*\***

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