FCC SDoC REPORT
ICES-003 TEST REPORT

Test Report No.	**: T210721W04-F**
Applicant	**: COMPAL ELECTRONICS, INC.**
Address	**: No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan**
Manufacturer	**: N/A**
Address	**: N/A**

Equipment Under Test (EUT) :

Product Name	**: Notebook Computer**
Brand Name	**: , HP, HP Inc.**
Model No.	**: TPN-C155**
Added Model(s)	**: N/A**
Test Voltage	**: AC 120V, 60Hz**
Standards	**: 47 CFR FCC Part 15 Subpart B (Class B)** **ICES-003 Issue 7: October 2020 (Class B)**
Date of Sample Receipt	**: Jul. 24, 2021**
Date of Test	**: Jul. 24 ~ Aug. 02, 2021**
Date of Issue	**: Jan. 17, 2022**

Test Result :	**PASS**

In the configuration tested, the EUT complied with the standards specified above.

Remarks :

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

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Approved By: Hex Chiang ***Date:*** Jan. 17, 2022

Hex Chiang (Supervisor)

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Revision History

Revision	Report Number	Description	Issue Date
00	T210721W04-F	Original	Jan. 17, 2022

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant	:	COMPAL ELECTRONICS, INC.
Address	:	No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan
Manufacturer	:	N/A
Address	:	N/A

1.2 General Description of EUT

Product Name	:	Notebook Computer
Brand Name	:	, HP, HP Inc.
Model No.	:	TPN-C155
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	5.8GHz	
Power Adapter	AcBel	TPN-AA08
	Chicony	TPN-CA10
	Delta	TPN-DA26
	Lite-On	TPN-LA12
		TPN-LA22
AC Power Adapter Rating	**For TPN-AA08** I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
	For TPN-CA10；TPN-DA26；TPN-LA12；TPN-LA22 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type (Type C)	Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	LPDDR4X 4266MHz (8GB / 16GB / 32GB)	
Main Board	Compal	LA-L311P (ADL 12L)
CPU	Intel	i5-1235U (1.3GHz)
		i7-1255U (1.7GHz)
Wireless LAN +BT	Intel	AX211NGW
		AX411NGW
WWAN+GPS	Fibocom	FM350-GL
Battery	Dynapack	HSTNN-DB9Z
Camera	Chicony	CJFKE2620004331LH
	TFC	YHUM-1
LCD Panel	INX	N135NCG-GT1
	IVO	X135NV42
	LGD	LP135WU1
	SDC	ATNA35VJ07
Solid State Drive	Hynix	HFS001TDE9X073N (1TB)
		HFS512GDE9X073N (512GB)
	Intel	HBRPEKNL0202AH (512GB)

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Solid State Drive	Intel	HBRPEKNL0203AH (1TB)
	Kioxia	KXG60PNV2T04 (2TB)
		KXG60ZNV1T02 (1TB)
		KXG60ZNV512G (512GB)
	Micron	MTFDHBA1T0TDV-1AZ1AABHA (1TB)
		MTFDHBA512TDV-1AZ1AABHA (512GB)
		MTFDKBA1T0TFH-1BC1AABHA (1TB)
		MTFDKBA2T0TFH-1BC1AABHA (2TB)
		MTFDKBA512TFH-1BC1AABHA (512GB)
	Samsung	MZVL21T0HCLR-00BH1 (1TB)
		MZVL22T0HBLB-00BH1 (2TB)
		MZVL2512HCJQ-00BH1 (512GB)
		MZVLB1T0HBLR-000H1 (1TB)
		MZVLB512HBJQ-000H1 (512GB)
		MZVLB2T0HALB-000H1 (2TB)
	SSSTC	CA6-8D512-HP (512GB)
	Western Digital	SDBPNTY-1T00-1006 (1TB)
		SDBPNTY-512G-1006 (512GB)
		SDBPNTZ-2T00-1106 (2TB)
		SDCPNRY-1T00-1006 (1TB)
		SDCPNRY-512G-1006 (512GB)
		SDCPNRZ-2T00-1006 (2TB)
Touch Screen	Henghao	8D0D501A
		8D0D503A
	TPK	T07CN135N002A
		T07CN135N003A

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Pre-test Mode

Mode	Power Adapter	Memory	Main Board	CPU	Wireless LAN +BT	WWAN+GPS	Battery	Camera	LCD Panel	Solid State Drive	Touch Screen
1	Lite-On TPN-LA22	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Kioxia KXG60ZNV1T02 (1TB)	TPK T07CN135N002A
2	AcBel TPN-AA08	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Hynix HFS001TDE9X073N (1TB)	Henghao 8D0D501A
3	Chicony TPN-CA10	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Hynix HFS512GDE9X073N (512GB)	TPK T07CN135N002A
4	Delta TPN-DA26	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Intel HBRPEKNL0202AH (512GB)	TPK T07CN135N003A
5	Lite-On TPN-LA12	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Intel HBRPEKNL0203AH (1TB)	TPK T07CN135N003A
6	Lite-On TPN-LA22	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Kioxia KXG60PNV2T04 (2TB)	Henghao 8D0D501A
7	AcBel TPN-AA08	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Kioxia KXG60ZNV1T02 (1TB)	Henghao 8D0D503A
8	Chicony TPN-CA10	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Kioxia KXG60ZNV512G (512GB)	TPK T07CN135N003A
9	Delta TPN-DA26	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Micron MTFDHBA1T0TDV-1AZ1AABHA (1TB)	TPK T07CN135N003A
10	Lite-On TPN-LA12	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Micron MTFDHBA512TDV-1AZ1AABHA (512GB)	Henghao 8D0D501A
11	Lite-On TPN-LA22	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Micron MTFDKBA1T0TFH-1BC1AABHA (1TB)	TPK T07CN135N002A
12	AcBel TPN-AA08	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Micron MTFDKBA2T0TFH-1BC1AABHA (2TB)	TPK T07CN135N003A
13	Chicony TPN-CA10	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Micron MTFDKBA512TFH-1BC1AABHA (512GB)	TPK T07CN135N003A
14	Lite-On TPN-LA22	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Samsung MZVL21T0HCLR-00BH1 (1TB)	TPK T07CN135N002A
15	AcBel TPN-AA08	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Samsung MZVL22T0HBLB-00BH1 (2TB)	TPK T07CN135N003A
16	Chicony TPN-CA10	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Samsung MZVL2512HCJQ-00BH1 (512GB)	TPK T07CN135N003A
17	Delta TPN-DA26	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Samsung MZVLB1T0HBLR-000H1 (1TB)	Henghao 8D0D501A
18	Lite-On TPN-LA12	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Samsung MZVLB512HBJQ-000H1 (512GB)	Henghao 8D0D503A
19	Lite-On TPN-LA22	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Samsung MZVLB2T0HALB-000H1 (2TB)	TPK T07CN135N003A
20	AcBel TPN-AA08	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	SSSTC CA6-8D512-HP (512GB)	TPK T07CN135N003A
21	AcBel TPN-AA08	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Western Digital SDBPNTY-1T00-1006 (1TB)	TPK T07CN135N003A
22	Chicony TPN-CA10	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Western Digital SDBPNTY-512G-1006 (512GB)	Henghao 8D0D501A
23	Delta TPN-DA26	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	IVO X135NV42	Western Digital SDBPNTZ-2T00-1106 (2TB)	TPK T07CN135N002A
24	Lite-On TPN-LA12	LPDDR4X 4266MHz 8GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	LGD LP135WU1	Western Digital SDCPNRY-1T00-1006 (1TB)	TPK T07CN135N003A
25	Lite-On TPN-LA22	LPDDR4X 4266MHz 16GB	Compal LA-L311P(ADL 12L)	Intel i7-1255U (1.7GHz)	Intel AX411NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	TFC YHUM-1	SDC ATNA35VJ07	Western Digital SDCPNRY-512G-1006 (512GB)	TPK T07CN135N003A
26	AcBel TPN-AA08	LPDDR4X 4266MHz 32GB	Compal LA-L311P(ADL 12L)	Intel i5-1235U (1.3GHz)	Intel AX211NGW	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	Chicony CJFKE2620004331LH	INX N135NCG-GT1	Western Digital SDCPNRZ-2T00-1006 (2TB)	Henghao 8D0D501A

1.4 The worst case of the EUT

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

Worst Case	
CE	**Mode 1 (1920 x 1080 Resolution)**
Below 1GHz RE	**Mode 1 (1920 x 1080 Resolution)**
Above 1GHz RE	**Mode 1 (1920 x 1080 Resolution)**

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1.5 Description of Support Units

Mode 1:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Earphone	Lenovo	GS-4021M	57Y4488
LCD Monitor	ASUS	MX27U	N/A
Mouse	HP	MOAFUO	PSB1030013577
Notebook PC (Remote)	Lenovo	TP00103G	PF-24WF25
Wireless AP (Remote)	ASUS	GT-AXE11000	M3IAJF201439
Micro SD Card	NA	N/A	N/A
SIM Card	VIBO	N/A	N/A
UXM 5G Wireless Test Platform (Remote)	KEYSIGHT	E7515B	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A

Support Equipment Used in Tested Cable

Mode 1:

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

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1.6 Operation Procedure

Mode 1:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WINEMC” test software.
3. 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 GPS, 5G UXM signal sources and continue to operate.
8. Setup the condition for test mode and begin the test.

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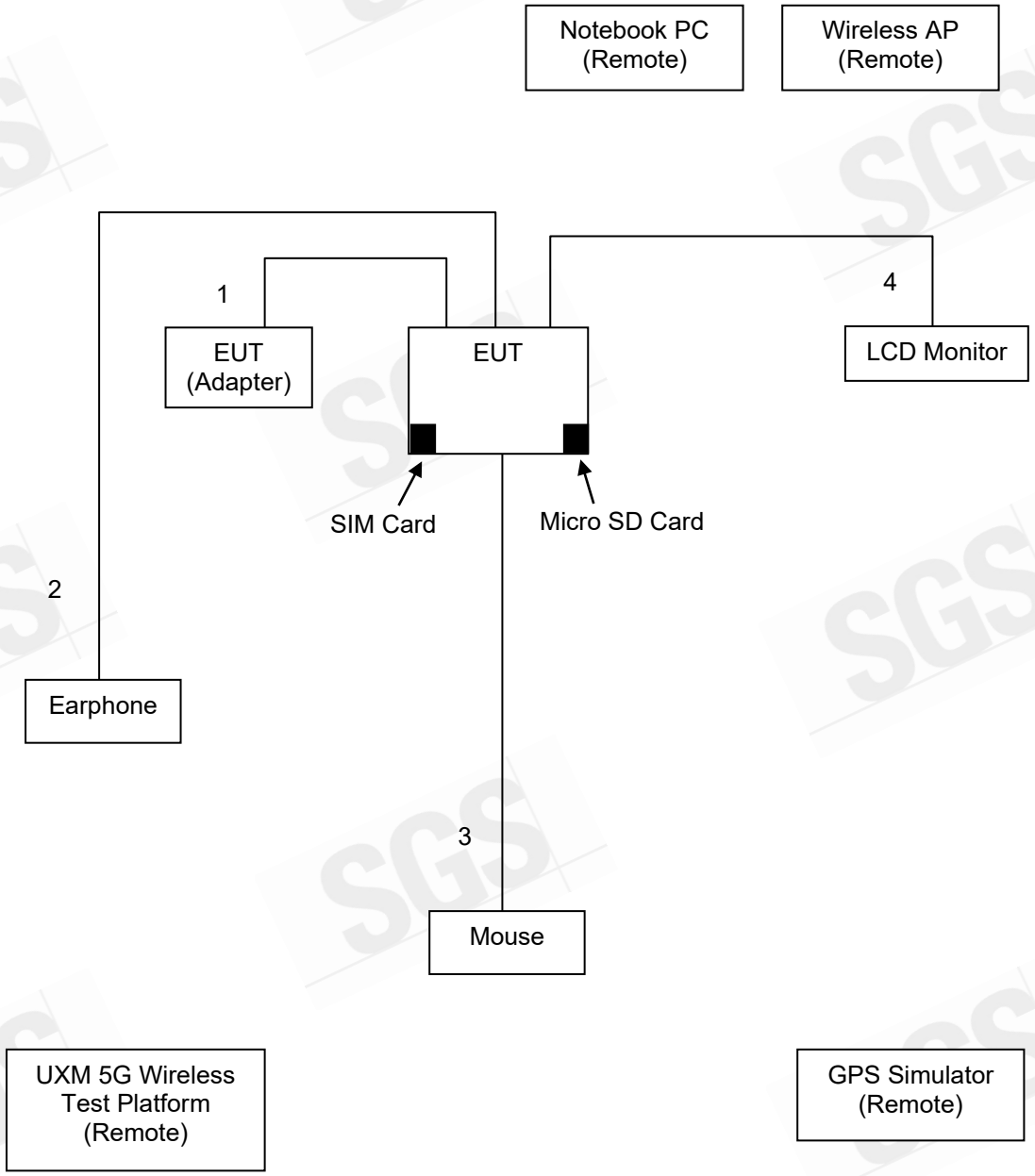
1.7 Test Set-Up Configuration

Mode 1:



1.8 Accessories Cable List

See clause 1.3 of this report

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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 3/10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequency and amplitude of the worse emissions were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

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

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

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1.11 Decision Rules of Results

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

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

1.12 Summary of Results

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

1.13 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2. EMISSION

2.1 Test Results

Conducted Emission	**Pass**
Radiated Emission	**Pass**

2.2 Frequency Range

47 CFR FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

ICES-003:

Conducted Emission : 150 kHz - 30 MHz

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

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

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

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

47 CFR FCC Part 15 Subpart B:

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

Note : (1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

ICES-003:

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

Note: The more stringent limit applies at transition frequencies.
*. The limit level in dBμV decreases linearly with the logarithm of frequency.

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2.3.2 Limits of Radiated Emissions

47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

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

- Detector Function : Peak , Average

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

CISPR 22 Limit:

- Detector Function : Quasi – Peak

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

NOTE 1 The lower limit shall apply at the transition frequency.
NOTE 2 Additional provisions may be required for cases where interference occurs.

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ICES-003 Limit:

- Detector Function : Quasi-peak

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

Note: The more stringent limit applies at transition frequencies

- Detector Function :Peak, Average

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

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

Conducted_Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	EMCRG142	190809	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	101073	06/21/2021	06/20/2022
LISN	Schwarzbeck	NSLK8128	5012	04/07/2021	04/06/2022
LISN	SCHWARZBECK	NSLK 8127	01022	04/15/2021	04/14/2022
Software	CCS-3A1-CE				

Compliance Certification Services Inc. (Wugu Laboratory)
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)
Measurement Uncertainty of Conducted Emission
Expanded uncertainty Ulab (k=2) of Conducted Emission is 3.06 dB.
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB

2.4.2 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter insertion loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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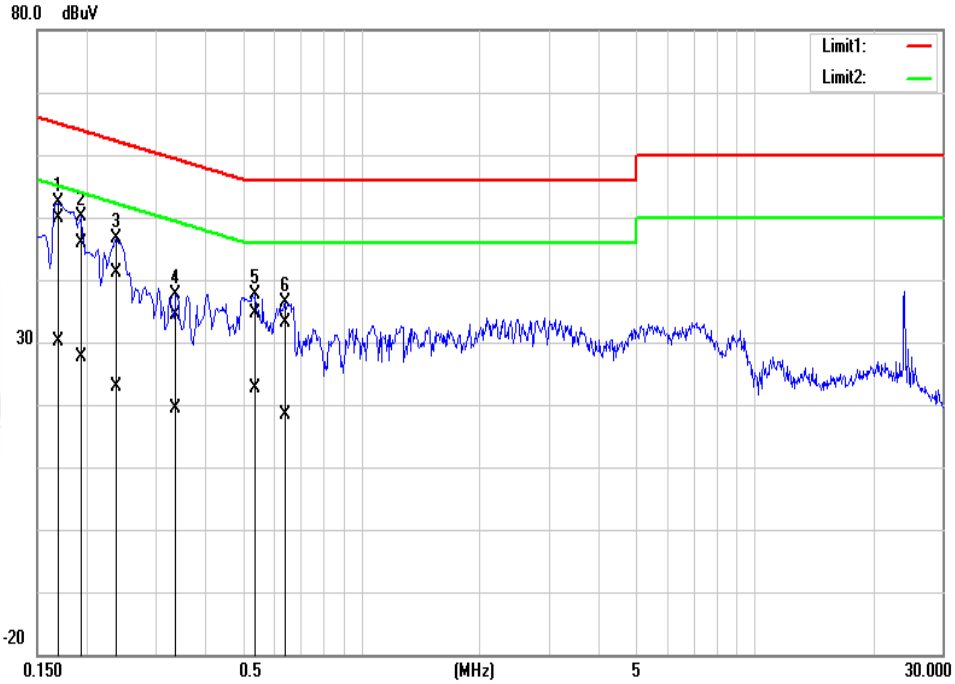
2.4.3 Measurement Data:

Model no.	TPN-C155	**Line:**	L1
Environmental Conditions	21℃, 46% RH	**Tested Date**	2021/07/24
Test Mode	Mode 1	**Tested By**	Thomas Liu
6dB Bandwidth	9 kHz	**Identifier number**	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1*	0.1700	49.75	29.98	0.12	49.87	30.10	64.96	54.96	-15.09	-24.86	Pass
2	0.1940	45.79	27.55	0.14	45.93	27.69	63.86	53.86	-17.93	-26.17	Pass
3	0.2380	40.99	22.63	0.14	41.13	22.77	62.16	52.17	-21.03	-29.40	Pass
4	0.3379	34.32	19.31	0.15	34.47	19.46	59.25	49.25	-24.78	-29.79	Pass
5	0.5380	34.46	22.42	0.15	34.61	22.57	56.00	46.00	-21.39	-23.43	Pass
6	0.6419	33.06	18.24	0.16	33.22	18.40	56.00	46.00	-22.78	-27.60	Pass

Note: L1 = Live Line

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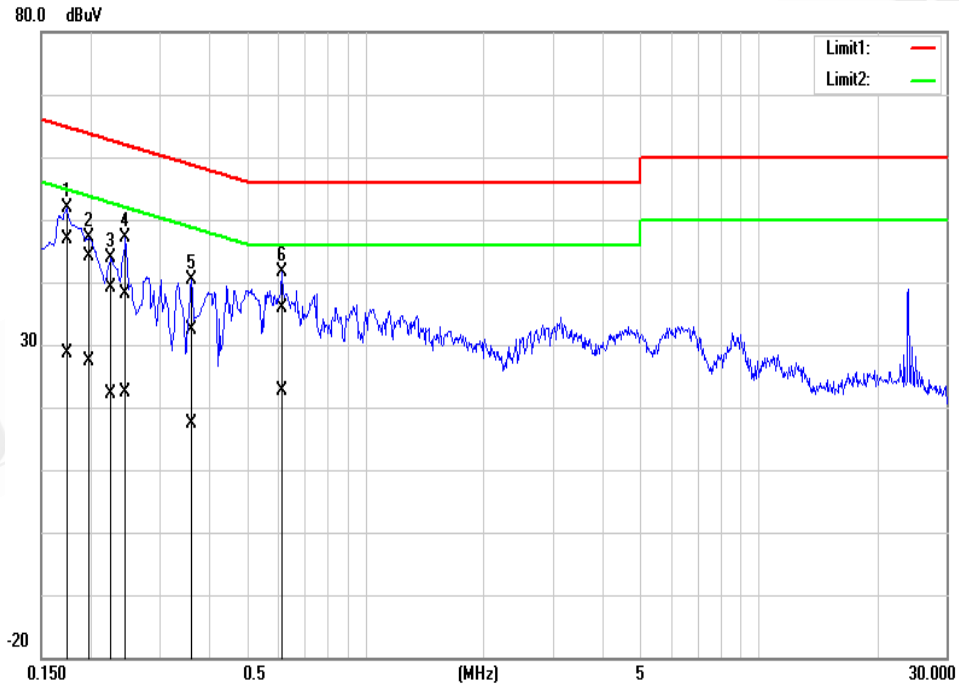
Model no.	TPN-C155	Line:	N
Environmental Conditions	21℃, 46% RH	Tested Date	2021/07/24
Test Mode	Mode 1	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1*	0.1740	46.68	28.50	0.14	46.82	28.64	64.76	54.77	-17.94	-26.13	Pass
2	0.1980	43.87	27.27	0.15	44.02	27.42	63.69	53.69	-19.67	-26.27	Pass
3	0.2260	39.06	21.99	0.15	39.21	22.14	62.59	52.60	-23.38	-30.46	Pass
4	0.2460	38.04	22.29	0.15	38.19	22.44	61.89	51.89	-23.70	-29.45	Pass
5	0.3620	32.10	17.30	0.17	32.27	17.47	58.68	48.68	-26.41	-31.21	Pass
6	0.6140	35.66	22.56	0.17	35.83	22.73	56.00	46.00	-20.17	-23.27	Pass

Note: N = Neutral Line

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

Radiated_Below_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	TESEQ	CBL 6112D	31674	02/22/2021	02/21/2022
Bilog Antenna	TESEQ	CBL 6112D	31675	03/15/2021	03/14/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	100961	05/25/2021	05/24/2022
EMI Test Receiver	R&S	ESCI	100962	06/02/2021	06/01/2022
Pre-Amplifier	HP	8447D	2944A07754	04/28/2021	04/27/2022
Pre-Amplifier	HP	8447D	2944A08150	04/28/2021	04/27/2022
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				

Compliance Certification Services Inc. (Wugu Laboratory)
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)
Measurement Uncertainty of Radiated Emission
Expanded uncertainty Ulab (k=2) of Radiated Emission is 4.15 dB. (30MHz-1GHz)
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.22 dB. (30MHz-1GHz)

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Above 1GHz

Radiated_Above _1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/28/2021	04/27/2022
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021
Horn Antenna	EMCO	3117	00055167	12/01/2020	11/30/2021
Pre-Amplifier	EMCI	EMC051845	980040	04/28/2021	04/27/2022
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/02/2020	09/01/2021
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/24/2020	08/23/2021
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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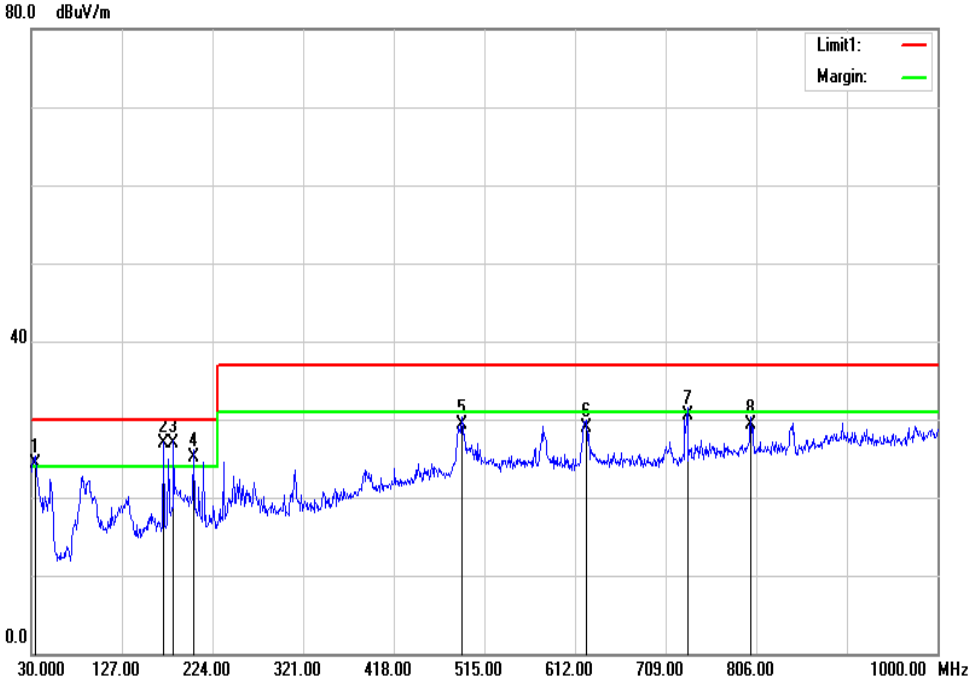
2.5.3 Measurement Data

Below 1GHz

Model no.	TPN-C155	**Test Mode**	Mode 1
Environmental Conditions	23℃, 53% RH	**Tested Date**	2021/08/02
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	29.07	-4.80	24.27	30.00	-5.73	100	359	QP
2	171.6200	36.45	-9.50	26.95	30.00	-3.05	100	157	QP
3	182.4900	36.93	-9.96	26.97	30.00	-3.03	100	185	QP
4	203.6300	34.46	-9.30	25.16	30.00	-4.84	100	315	QP
5	490.7500	29.88	-0.56	29.32	37.00	-7.68	299	23	QP
6	623.6400	27.44	1.53	28.97	37.00	-8.03	295	360	QP
7	732.2800	27.74	2.72	30.46	37.00	-6.54	399	135	QP
8	800.1800	25.61	3.71	29.32	37.00	-7.68	199	0	QP

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

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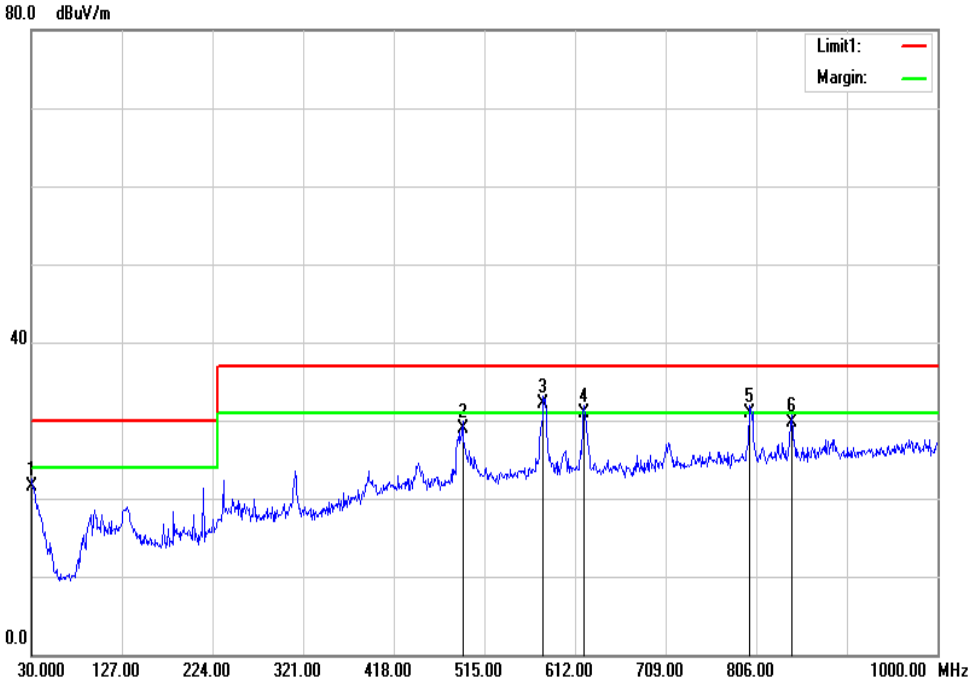
Model no.	TPN-C155	**Test Mode**	Mode 1
Environmental Conditions	23℃, 53% RH	**Tested Date**	2021/08/02
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	24.57	-3.16	21.41	30.00	-8.59	198	0	QP
2	491.7200	31.70	-2.82	28.88	37.00	-8.12	100	0	QP
3	578.0500	33.03	-0.94	32.09	37.00	-4.91	100	0	QP
4	621.7000	31.51	-0.63	30.88	37.00	-6.12	103	0	QP
5	798.2400	29.36	1.51	30.87	37.00	-6.13	299	360	QP
6	843.8300	27.71	1.96	29.67	37.00	-7.33	100	349	QP

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

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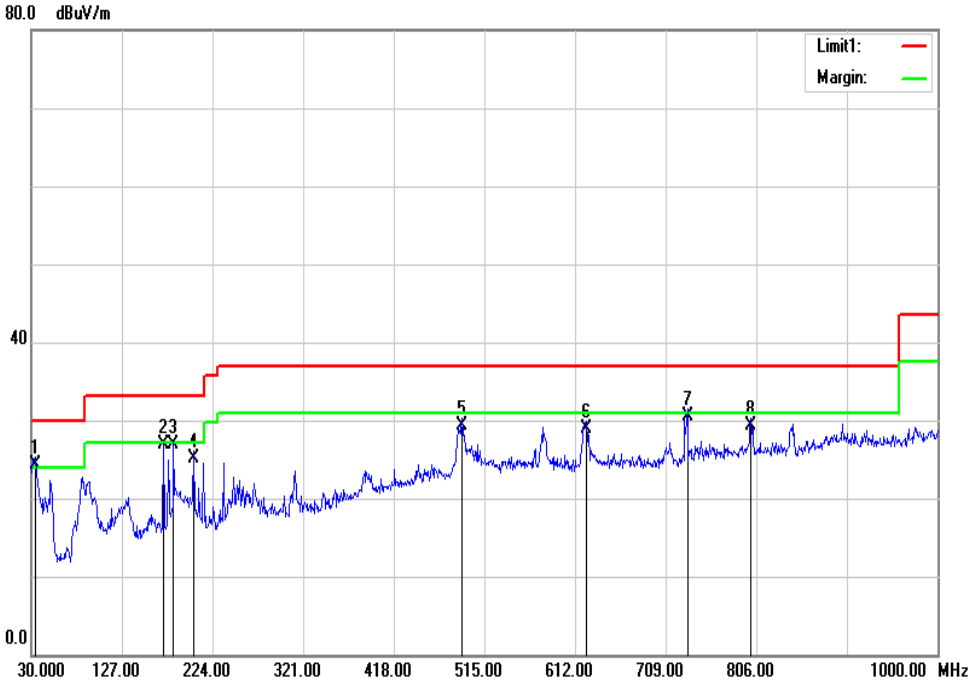
Model no.	TPN-C155	**Test Mode**	Mode 1
Environmental Conditions	23℃, 53% RH	**Tested Date**	2021/08/02
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	29.07	-4.80	24.27	30.00	-5.73	100	359	QP
2	171.6200	36.45	-9.50	26.95	33.10	-6.15	100	157	QP
3	182.4900	36.93	-9.96	26.97	33.10	-6.13	100	185	QP
4	203.6300	34.46	-9.30	25.16	33.10	-7.94	100	315	QP
5	490.7500	29.88	-0.56	29.32	37.00	-7.68	299	23	QP
6	623.6400	27.44	1.53	28.97	37.00	-8.03	295	360	QP
7	732.2800	27.74	2.72	30.46	37.00	-6.54	399	135	QP
8	800.1800	25.61	3.71	29.32	37.00	-7.68	199	0	QP

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

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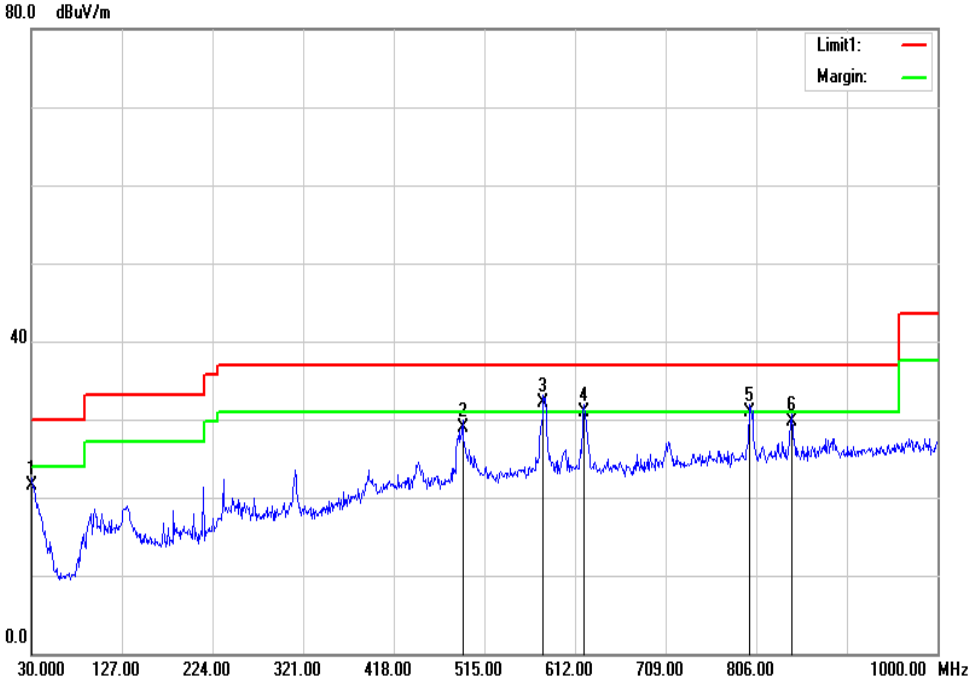
Model no.	TPN-C155	**Test Mode**	Mode 1
Environmental Conditions	23℃, 53% RH	**Tested Date**	2021/08/02
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	24.57	-3.16	21.41	30.00	-8.59	198	0	QP
2	491.7200	31.70	-2.82	28.88	37.00	-8.12	100	0	QP
3	578.0500	33.03	-0.94	32.09	37.00	-4.91	100	0	QP
4	621.7000	31.51	-0.63	30.88	37.00	-6.12	103	0	QP
5	798.2400	29.36	1.51	30.87	37.00	-6.13	299	360	QP
6	843.8300	27.71	1.96	29.67	37.00	-7.33	100	349	QP

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

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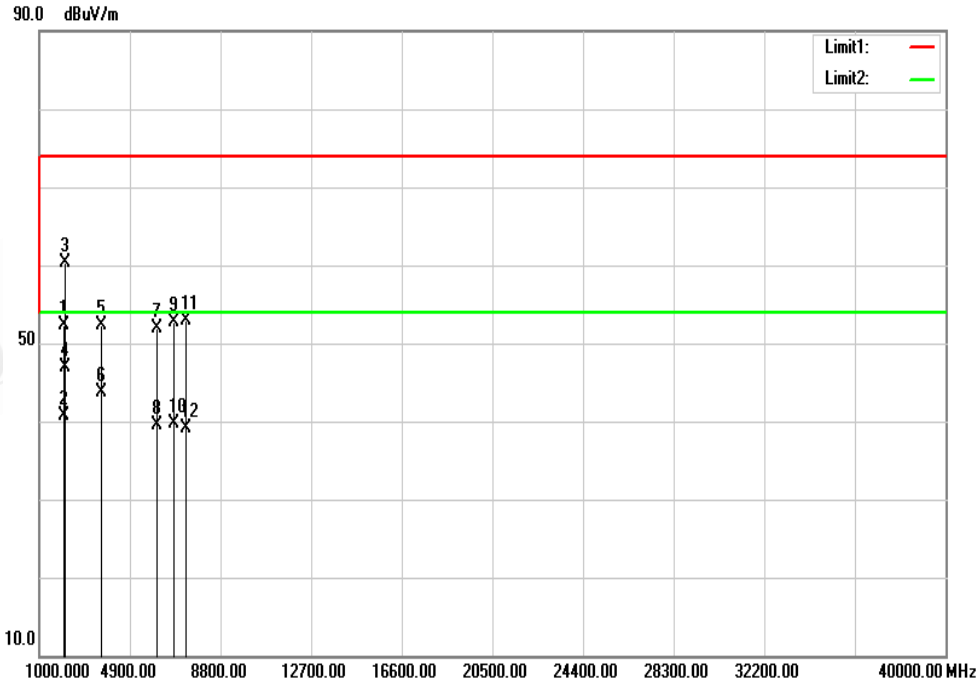
Above 1GHz

Model no.	TPN-C155	Test Mode	Mode 1
Environmental Conditions	23℃, 53% RH	Tested Date	2021/08/02
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	5.8GHz	Upper frequency	29GHz
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	2045.500	65.46	-13.17	52.29	74.00	-21.71	100	196	peak
2	2045.500	53.89	-13.17	40.72	54.00	-13.28	100	196	AVG
3	2088.000	73.11	-12.90	60.21	74.00	-13.79	200	258	peak
4	2088.000	59.87	-12.90	46.97	54.00	-7.03	200	258	AVG
5	3643.500	63.44	-11.04	52.40	74.00	-21.60	200	191	peak
6	3643.500	54.79	-11.04	43.75	54.00	-10.25	200	191	AVG
7	6032.000	55.87	-3.95	51.92	74.00	-22.08	300	82	peak
8	6032.000	43.42	-3.95	39.47	54.00	-14.53	300	82	AVG
9	6754.500	56.20	-3.47	52.73	74.00	-21.27	271	360	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	6754.500	43.18	-3.47	39.71	54.00	-14.29	271	360	AVG
11	7298.500	55.95	-3.01	52.94	74.00	-21.06	200	26	peak
12	7298.500	42.03	-3.01	39.02	54.00	-14.98	200	26	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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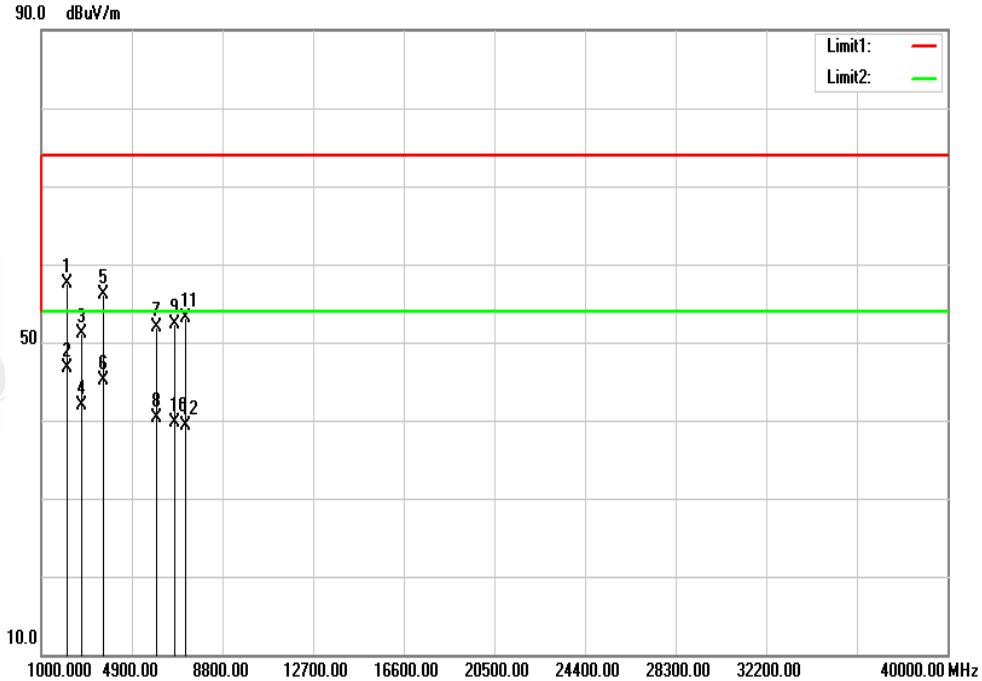
Model no.	TPN-C155	**Test Mode**	Mode 1
Environmental Conditions	23℃, 53% RH	**Tested Date**	2021/08/02
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	5.8GHz	**Upper frequency**	29GHz
Detector Function	Peak & Average	**Tested By**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier number**	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	2088.000	70.49	-12.90	57.59	74.00	-16.41	200	182	peak
2	2088.000	59.61	-12.90	46.71	54.00	-7.29	200	182	AVG
3	2751.000	63.83	-12.68	51.15	74.00	-22.85	200	202	peak
4	2751.000	54.59	-12.68	41.91	54.00	-12.09	200	202	AVG
5	3643.500	67.16	-11.04	56.12	74.00	-17.88	200	188	peak
6	3643.500	56.06	-11.04	45.02	54.00	-8.98	200	188	AVG
7	5930.000	56.39	-4.51	51.88	74.00	-22.12	141	360	peak
8	5930.000	44.85	-4.51	40.34	54.00	-13.66	141	360	AVG
9	6729.000	55.89	-3.66	52.23	74.00	-21.77	163	360	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	6729.000	43.32	-3.66	39.66	54.00	-14.34	163	360	AVG
11	7171.000	56.01	-2.86	53.15	74.00	-20.85	200	56	peak
12	7171.000	42.09	-2.86	39.23	54.00	-14.77	200	56	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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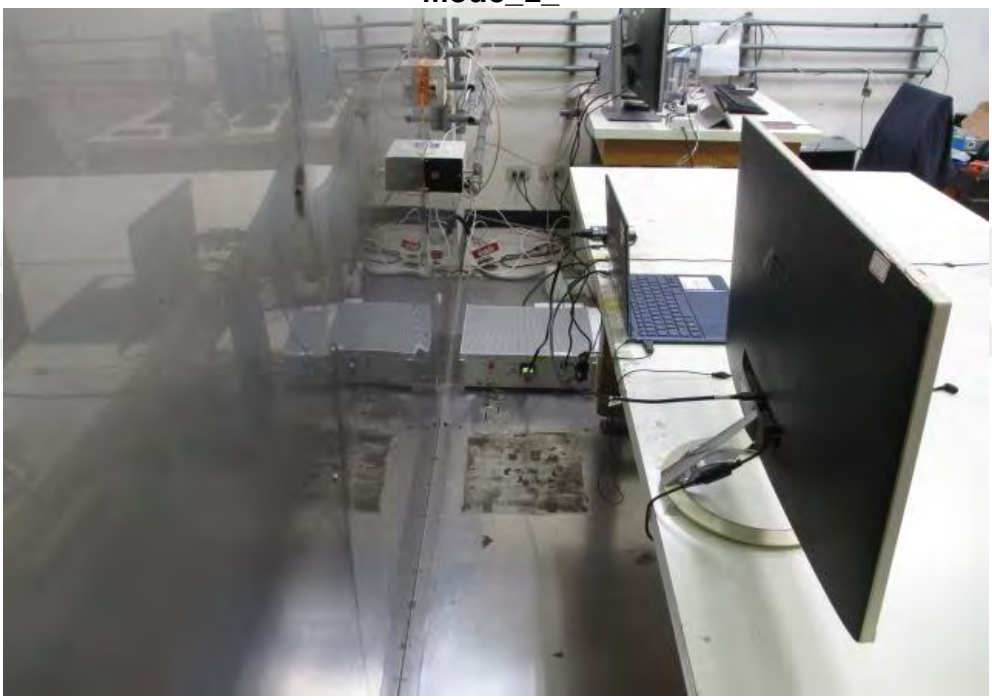
APPENDIX

Photograph of Testing General Set-up

CE Testing Set-up

Model No.: TPN-C155
Mode_1_+

Mode_1_-



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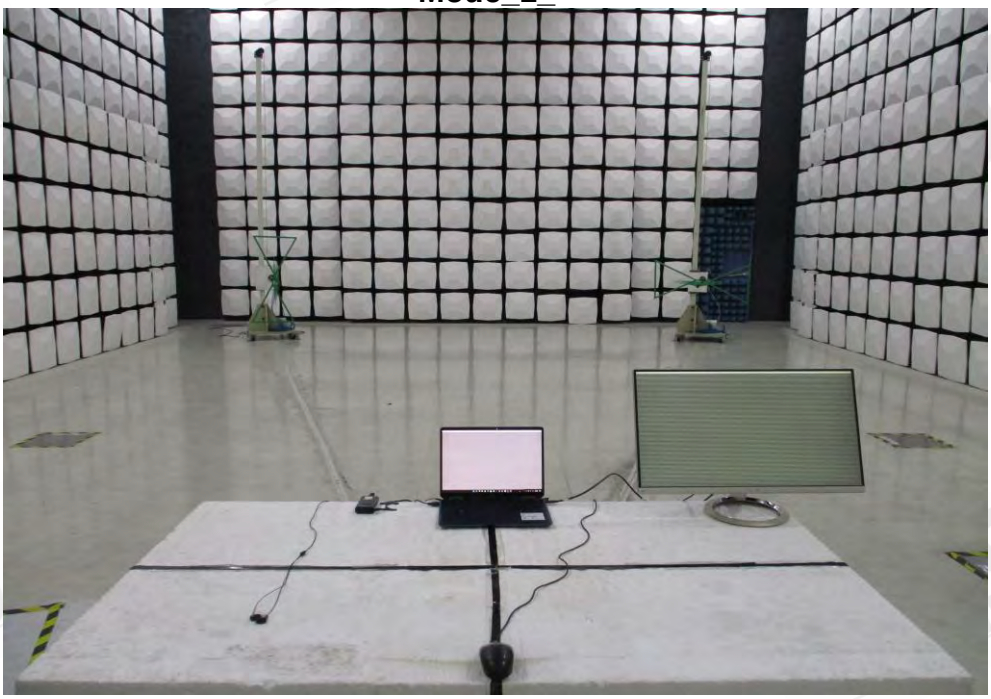
RE Testing Set-up

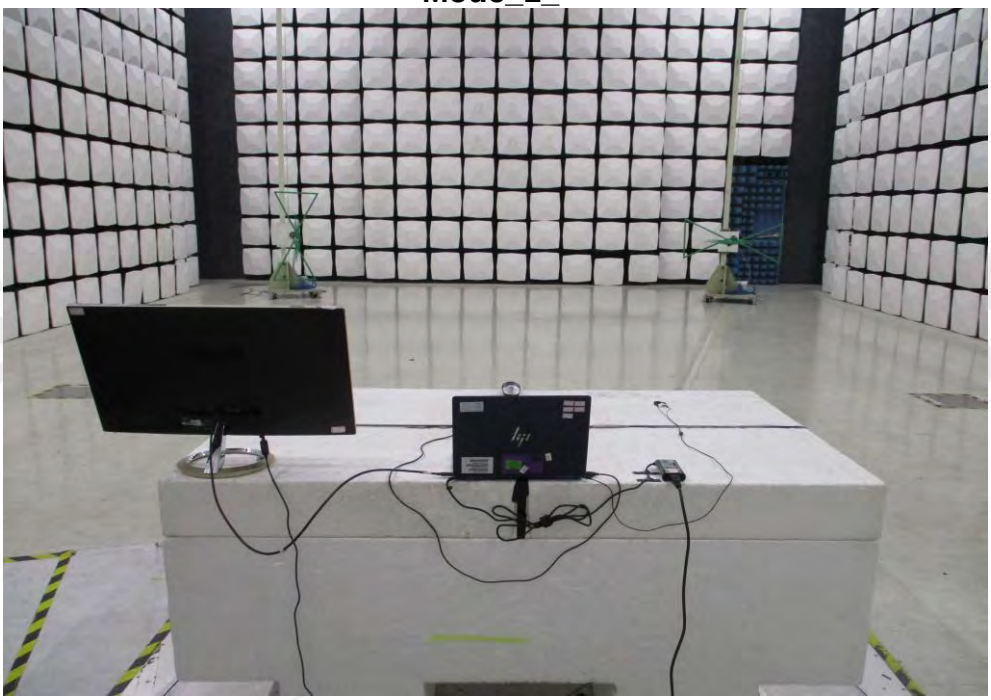
Below 1GHz

Model No.: TPN-C155

Mode_1_+



Mode_1_-



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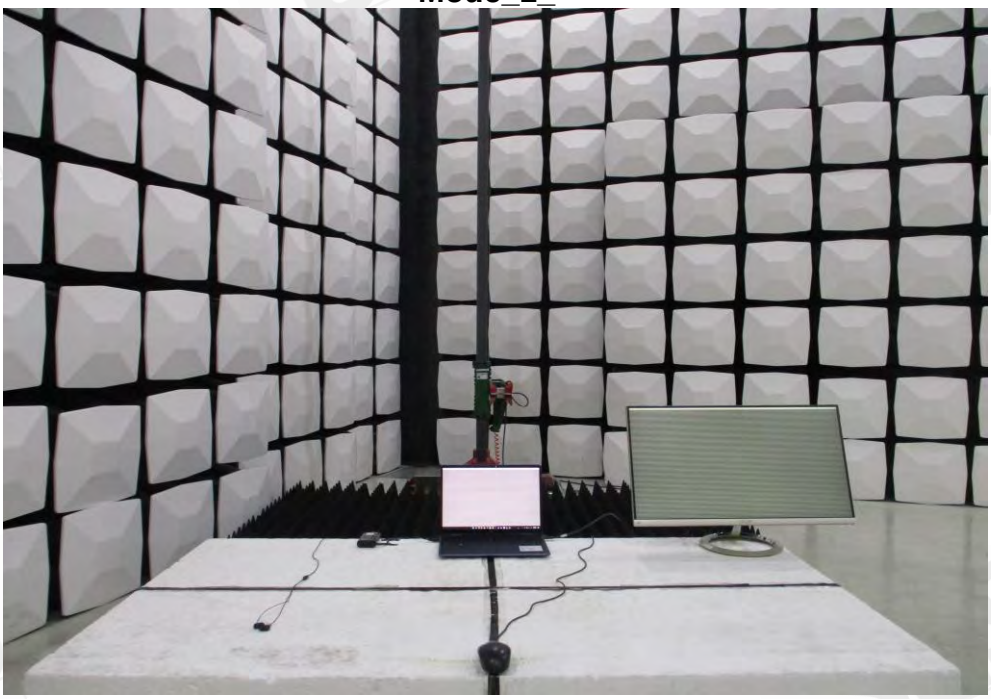
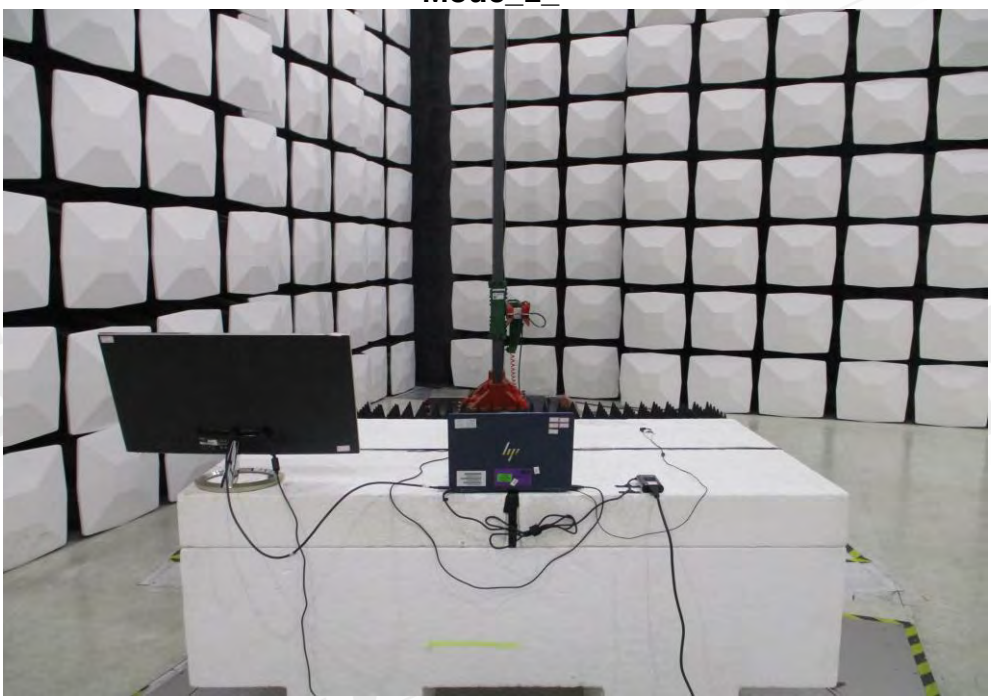
Above 1GHz

Model No.: TPN-C155

Mode_1_+



Mode_1_-



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Photographs of Product

Exterior

Model No.: TPN-C155

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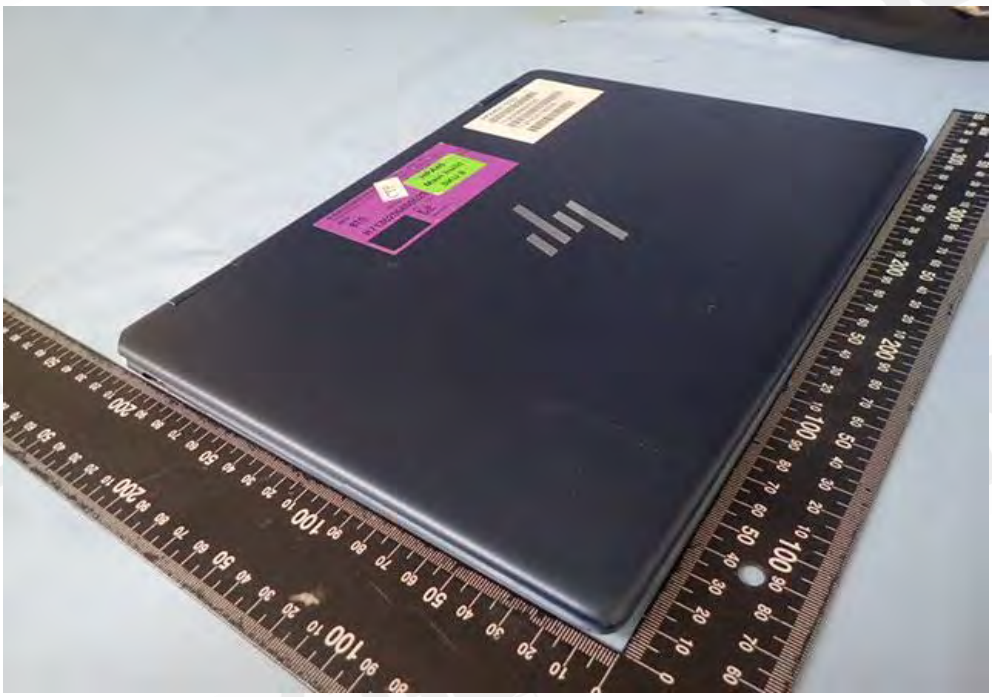

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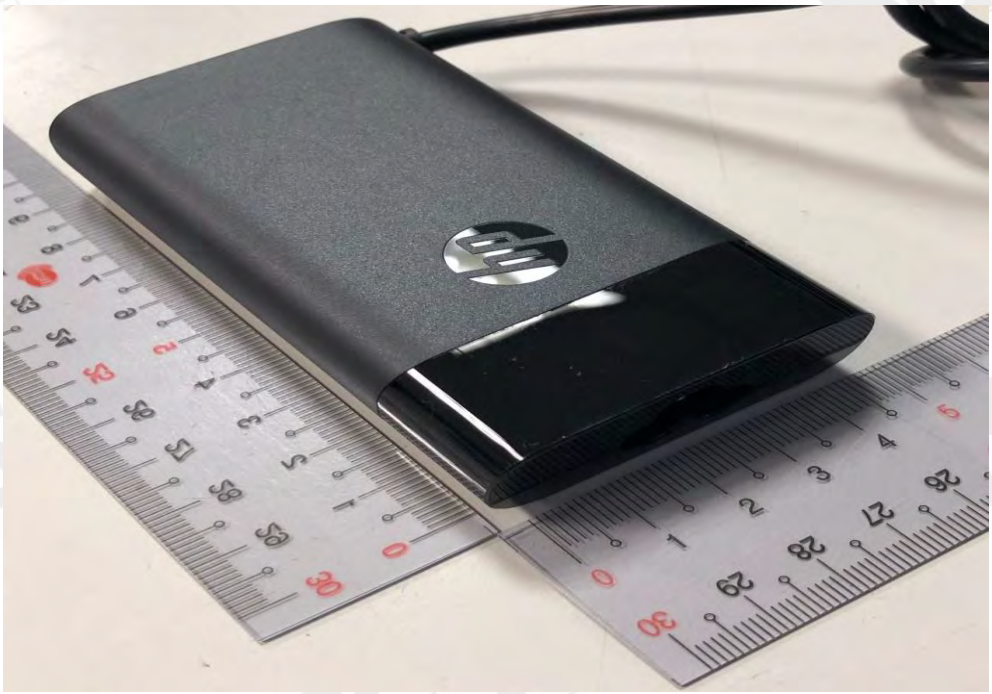
Adapter Model No.: TPN-AA08



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Adapter Model No.: TPN-CA10

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Adapter Model No.: TPN-DA26

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Adapter Model No.: TPN-LA12

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Adapter Model No.: TPN-LA22

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** End of Report **

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