FCC SDoC REPORT
Canada ISED ICES-003 TEST REPORT

Test Report No.	**: T191114L01-A-F**
Applicant	**: INVENTEC CORPORATION**
Address	**: 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.**
Manufacturer	**: INVENTEC CORPORATION**
Address	**: 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.**

Equipment Under Test (EUT) :

Product Name	**: Notebook Computer**
Brand Name	**: HP**
Model No.	**: TPN-I137**
Added Model(s)	**: N/A**
Standards	**: FCC Part 15, Subpart B, Class B Canada ICES-003 Issue 6(June 2016), Class B**
Date of Sample Receipt	**: Nov. 19, 2019**
Date of Test	**: Nov. 19 ~ 23, 2019**
Date of Issue	**: Dec. 17, 2019**

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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Tested By: Rex Kuo ***Date:*** Dec. 17, 2019

Rex Kuo (Engineer)

Approved By: Hex Chiang ***Date:*** Dec. 17, 2019

Hex Chiang (Supervisor)

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Revision History

Revision	Description	Issue Date	Remark
00	Original	Dec. 9, 2019	T191114L01-A-F
01	See the following Note Rev. (01)	Dec. 17, 2019	T191114L01-A-F

Note:
Rev. (01):
1. Applicant adds Main Board(Model : 6050A3156701) to re-test.

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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. : TPN-I137
Added Model(s) : N/A
Model Difference : See the following note.

Note: There are three different Main Board types for EUT. Please refer to the following table:

Platform type	Main Board	CPU	WWAN information
ICL	Inventec / 6050A3156801	Intel / i3-1005G1 1.2GHz Intel / i5-1035G1 1.0GHz Intel / i7-1065G7 1.3GHz	Fibocom / L850-GL
	Inventec / 6050A3156701		N/A
GML	Inventec / 6050A3156401	Intel / N5030 1.1GHz	Fibocom / L850-GL

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1.3 Details of EUT

Power Supply	AC 100~240V	
Highest operate description	1.3GHz	
Power Adapter	Chicony(hp)	TPN-CA14
		TPN-CA17
		TPN-CA20
	Acbel(hp)	TPN-AA05
		TPN-AA07
	Delta (hp)	TPN-DA15
		TPN-DA16
	Lite-on (hp)	TPN-LA15
		TPN-LA17
		TPN-LA19
Adapter Power Rating	**For TPN-AA05 ; TPN-CA14 ; TPN-DA16** I/P: 100-240Vac, 1.4A, 50-60Hz O/P: 19.5Vdc, 2.31A	
	For TPN-CA17 ; TPN-LA17 I/P: 100-240Vac, 1.7A, 50-60Hz O/P: 19.5Vdc, 3.33A	
	For TPN-AA07 ; TPN-CA20 ; TPN-DA15 ; TPN-LA19 I/P: 100-240Vac, 1.4A, 50-60Hz O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 3A / 15Vdc, 3A	
	For TPN-LA15 I/P: 100-240Vac, 1.1A, 50-60Hz O/P: 19.5Vdc, 2.31A	
AC Power Cord Type	Unshielded, 1.8m (Detachable) to Power Adapter	
DC Power Cable Type	Shielded, 1.8m (Non-Detachable) at Power Adapter	
Memory	DDR 4 2666MHz (4GB/8GB)	
	DDR 4 3200MHz (4GB/8GB/16GB)	
Main Board (ICL)	Inventec	6050A3156801
		6050A3156701
Main Board (GML)	Inventec	6050A3156401
CPU (ICL)1526PIN	Intel	i3-1005G1 1.2GHz
		i5-1035G1 1.0GHz
		i7-1065G7 1.3GHz
CPU (GML)1090PIN	Intel	N5030 1.1GHz

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14.0" LCD Panel	AUO	B140HAN04.0
		B140HAN05.4
		B140XTN07.2
	BOE	NV140FHM
		NV140FHM-N4C
		NT140WHM-N44
	INX	N140HCA-EAC
		N140BGA-EA4
	LGD	LP140WF8
		LP140WFA
Touch Screen Module	LAIBAO	ST140SN084AKM
		ST140SN084BKM
	Henghao	HD-T140NN07-G8SA
	TPK	T07SN140N004A
SSD	Samsung	MZNLH128HBHQ-000H1 (128GB)
		MZVLQ256HAJD-000H1 (256GB)
		MZVLQ512HALU-000H1 (512GB)
		MZVLQ1T0HALB-000H1 (1TB)
	SanDisk	SD9SN8W-128G-1006 (128GB)
	Toshiba	KBG30ZMV256G (256GB)
		KBG30ZMV512G (512GB)
	Intel	HBRPEKNX0101AH (256GB)
		SSDPEKNW512G8H (512GB)
		HBRPEKNX0202AH (512GB)
		SSDPEKNW010T8H (1TB)
	Micron	MTFDHBA256TCK-1AS1AABHA (256GB)
	Western Digital	SDAPNUW-256G-1006 (256GB)
		SDAPNUW-512G-1006 (512GB)
	Hynix	HFM256GDJTNI-82A0A (256GB)
		HFM512GDJTNI-82A0A (512GB)
	Lite-On	CV8-8E128-HP (128GB)
	Kingston	RBU-SNS8350DES3/128GP (128GB)

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Battery Pack	LGChem (hp)	HSTNN-LB8S
	CosMX (hp)	HSTNN-OB1P
Wireless LAN+Bluetooth Combo	Intel	9461NGW
		AX201NGW
WWAN	Fibocom	L850-GL
CCD	Chicony	CKFJH4021004330LH
	Foxlink	FX10FF-769H
	Luxvision	9BF111N3
	TFC	YHKL
Pen (Optional)	Waltop	TCS-H02
		TCS-H02B
	Sunwoda	TCS-H02
		TCS-H02B

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Pre-test Mode

Mode	CPU	Memory	Panel	Touch Screen Module	SSD	Battery	WLAN+BT	CCD	WWAN	Adapter	Main Board	Pen	Type
1	Intel i3-1005G1 1.2GHz	4GB + 4GB DDR 4 2666MHz	AUO B140HAN04.0	LAIBAO ST140SN084AKM	Samsung MZNLH128HBHQ-000H1 (128GB)	LGChem (hp) HSTNN-LB8S	Intel 9461NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	Waltop TCS-H02	ICL
2	Intel i5-1035G1 1.0GHz	4GB + 8GB DDR 4 2666MHz	AUO B140HAN05.4	LAIBAO ST140SN084BKM	Samsung MZVLQ256HAJD-000H1 (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	N/A	Chicony(hp) TPN-CA17	Inventec 6050A3156701	Waltop TCS-H02B	ICL
3	Intel i7-1065G7 1.3GHz	8GB + 8GB DDR 4 2666MHz	AUO B140XTN07.2	Henghao HD-T140NN07-G8SA	Samsung MZVLQ512HALU-000H1 (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Luxvision 9BF111N3	Fibocom L850-GL	Chicony(hp) TPN-CA20	Inventec 6050A3156801	Sunwoda TCS-H02	ICL
4	Intel i7-1065G7 1.3GHz	4GB + 4GB DDR 4 3200MHz	BOE NV140FHM	TPK T07SN140N004A	Samsung MZVLQ1T0HALB-000H1 (1TB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	TFC YHKL	Fibocom L850-GL	Acbel(hp) TPN-AA05	Inventec 6050A3156801	Sunwoda TCS-H02B	ICL
5	Intel i7-1065G7 1.3GHz	4GB + 8GB DDR 4 3200MHz	BOE NV140FHM-N4C	LAIBAO ST140SN084AKM	SanDisk SD9SN8W-128G-1006 (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Acbel(hp) TPN-AA07	Inventec 6050A3156801	N/A	ICL
6	Intel i7-1065G7 1.3GHz	4GB + 16GB DDR 4 3200MHz	BOE NT140WHM-N44	LAIBAO ST140SN084AKM	Toshiba KBG30ZMV256G (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Delta (hp) TPN-DA15	Inventec 6050A3156801	N/A	ICL
7	Intel i7-1065G7 1.3GHz	8GB + 8GB DDR 4 3200MHz	INX N140HCA-EAC	LAIBAO ST140SN084AKM	Toshiba KBG30ZMV512G (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156801	N/A	ICL
8	Intel i7-1065G7 1.3GHz	8GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Intel HBRPEKNX0101AH (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Lite-on (hp) TPN-LA15	Inventec 6050A3156801	N/A	ICL
9	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	LAIBAO ST140SN084AKM	Intel SSDPEKNW512G8H (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Lite-on (hp) TPN-LA17	Inventec 6050A3156801	N/A	ICL
10	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WFA	LAIBAO ST140SN084AKM	Intel HBRPEKNX0202AH (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Lite-on (hp) TPN-LA19	Inventec 6050A3156801	N/A	ICL
11	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Kingston RBU-SNS8350DES3/128GP (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
12	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Micron MTFDHBA256TCK-1AS1AABHA (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
13	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Western Digital SDAPNUW-256G-1006 (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
14	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Western Digital SDAPNUW-512G-1006 (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
15	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Hynix HFM256GDJTNI-82A0A (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
16	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Hynix HFM512GDJTNI-82A0A (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
17	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Lite-On CV8-8E128-HP (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
18	Intel i7-1065G7 1.3GHz	16GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	LAIBAO ST140SN084AKM	Intel SSDPEKNW010T8H (1TB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156801	N/A	ICL
19	Intel N5030 1.1GHz	4GB + 4GB DDR 4 2666MHz	AUO B140HAN04.0	LAIBAO ST140SN084AKM	SanDisk SD9SN8W-128G-1006 (128GB)	LGChem (hp) HSTNN-LB8S	Intel 9461NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Chicony(hp) TPN-CA14	Inventec 6050A3156401	Waltop TCS-H02	GML
20	Intel N5030 1.1GHz	4GB + 8GB DDR 4 2666MHz	AUO B140HAN05.4	LAIBAO ST140SN084BKM	Toshiba KBG30ZMV256G (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Foxlink FX10FF-769H	Fibocom L850-GL	Chicony(hp) TPN-CA17	Inventec 6050A3156401	Waltop TCS-H02B	GML
21	Intel N5030 1.1GHz	8GB + 8GB DDR 4 2666MHz	AUO B140XTN07.2	Henghao HD-T140NN07-G8SA	Toshiba KBG30ZMV512G (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Luxvision 9BF111N3	Fibocom L850-GL	Chicony(hp) TPN-CA20	Inventec 6050A3156401	Sunwoda TCS-H02	GML
22	Intel N5030 1.1GHz	4GB + 4GB DDR 4 3200MHz	BOE NV140FHM	TPK T07SN140N004A	Intel HBRPEKNX0101AH (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	TFC YHKL	Fibocom L850-GL	Acbel(hp) TPN-AA05	Inventec 6050A3156401	Sunwoda TCS-H02B	GML
23	Intel N5030 1.1GHz	4GB + 8GB DDR 4 3200MHz	BOE NV140FHM-N4C	Henghao HD-T140NN07-G8SA	Intel SSDPEKNW512G8H (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA07	Inventec 6050A3156401	N/A	GML
24	Intel N5030 1.1GHz	4GB + 16GB DDR 4 3200MHz	BOE NT140WHM-N44	Henghao HD-T140NN07-G8SA	Intel HBRPEKNX0202AH (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA15	Inventec 6050A3156401	N/A	GML
25	Intel N5030 1.1GHz	8GB + 8GB DDR 4 3200MHz	INX N140HCA-EAC	Henghao HD-T140NN07-G8SA	Intel SSDPEKNW010T8H (1TB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
26	Intel N5030 1.1GHz	8GB + 16GB DDR 4 3200MHz	INX N140BGA-EA4	Henghao HD-T140NN07-G8SA	Kingston RBU-SNS8350DES3/128GP (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Lite-on (hp) TPN-LA15	Inventec 6050A3156401	N/A	GML
27	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Micron MTFDHBA256TCK-1AS1AABHA (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Lite-on (hp) TPN-LA17	Inventec 6050A3156401	N/A	GML
28	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WFA	Henghao HD-T140NN07-G8SA	Western Digital SDAPNUW-256G-1006 (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Lite-on (hp) TPN-LA19	Inventec 6050A3156401	N/A	GML
29	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Western Digital SDAPNUW-512G-1006 (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
30	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Hynix HFM256GDJTNI-82A0A (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
31	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Hynix HFM512GDJTNI-82A0A (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
32	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Lite-On CV8-8E128-HP (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
33	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Samsung MZNLH128HBHQ-000H1 (128GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
34	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Samsung MZVLQ256HAJD-000H1 (256GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
35	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Samsung MZVLQ512HALU-000H1 (512GB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML
36	Intel N5030 1.1GHz	16GB + 16GB DDR 4 3200MHz	LGD LP140WF8	Henghao HD-T140NN07-G8SA	Samsung MZVLQ1T0HALB-000H1 (1TB)	CosMX (hp) HSTNN-OB1P	Intel AX201NGW	Chicony CKFJH4021004330LH	Fibocom L850-GL	Delta (hp) TPN-DA16	Inventec 6050A3156401	N/A	GML

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1.4 The worst case of the EUT

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

Worst Case	
CE	**Mode 18, 36 (1920 X 1080 Resolution)**
RE	**Mode 18, 36 (1920 X 1080 Resolution)**

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1.5 Description of Support Units

Mode 18, 36:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	AUSU	MX27U	N/A
Mouse	Lenovo	MOAFUO	LZ151A63RH7
SD Card	N/A	N/A	N/A
SIM Card	N/A	N/A	N/A
HDD	WD	WDBPGC5003ABK-PESN	WXA1AA4DRYDJ
HDD	WD	WDBPGC5004ABK-PESN	WXB1AA4EEJ9P
Earphone	Lenovo	GS-4021M	57Y4488
GPS simulator (Remote)	IFR	GPS-101	N/A
Notebook PC (Remote)	DELL	INSPIRON 640m	CN-0MG532-70166-75G-03AP
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
Universal Radio Communication Tester (Remote)	R & S	CMW 500	NA

Support Equipment Used in Tested Cable

Mode 18, 36:

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

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1.6 Operation Procedure

Mode 18, 36:

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 “WinEMC” test software.
5. EUT execute the WinEMC software to send “H” Pattern to display on the screen.
6. Executed AMCAP2 software to turn-on the Camera.
7. The EUT transfers data to another Notebook PC via LAN Port.
8. The EUT will receive the GPS signal source and sustained action.
9. The EUT communicates with the wireless CMW 500 via a SIM radio.
10. Setup the condition for test mode, and begin the test.

1.7 Modification List

No modification was made by Compliance Certification Services Inc..

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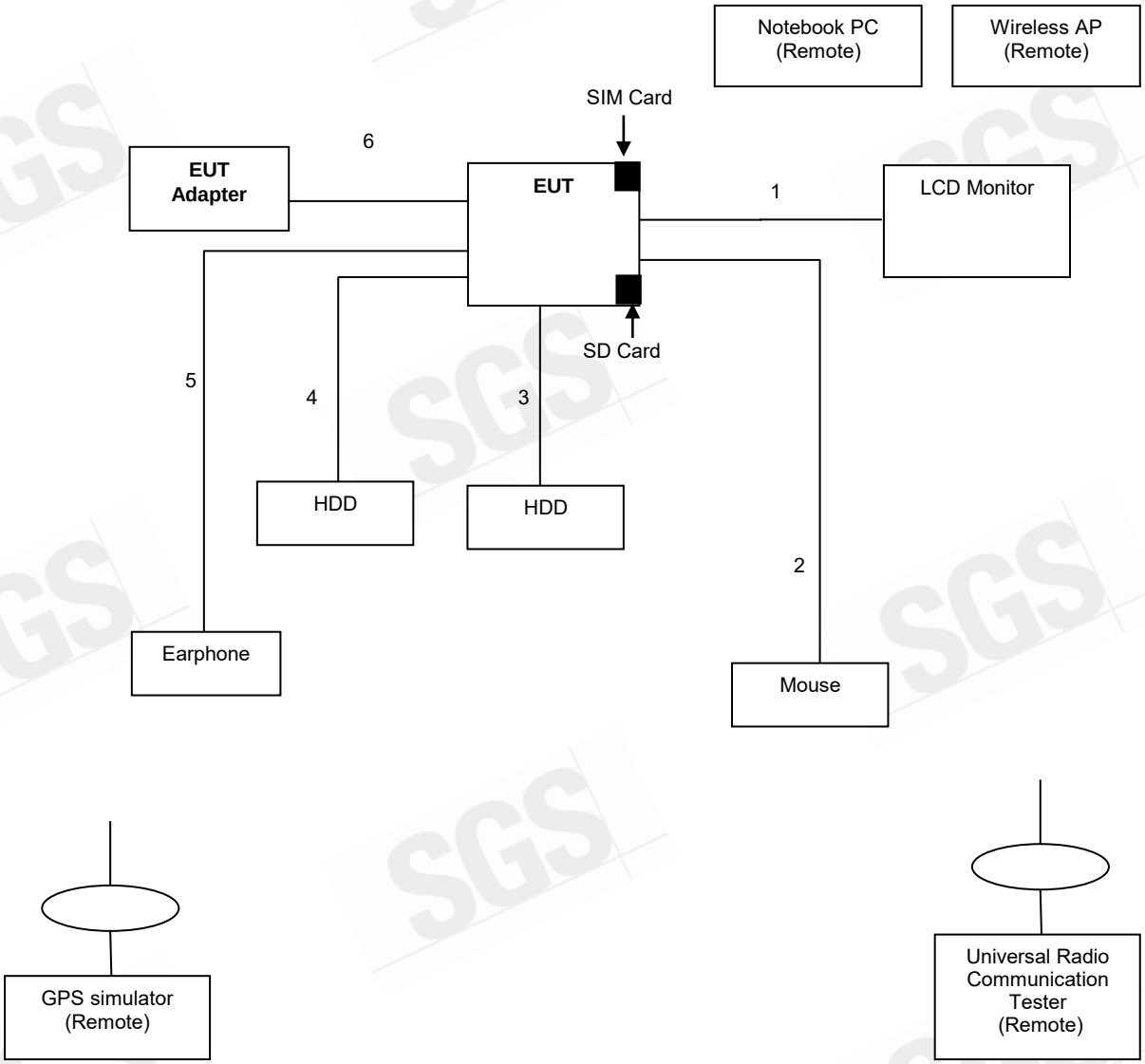
1.8 Test Set-Up Configuration

Mode 18, 36:



1.9 Accessories Cable List

See clause 1.3 of this report

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1.10 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 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 frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.11 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/CISPR 22	Applicable
Deviation from Standard	No deviation

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1.12 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014.

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

1.13 Summary of Results

Standard	Test Type	Result
FCC Part 15 Subpart B, Class B Canada ICES-003 Issue 6 (June 2016),Class B	Conducted Emission	PASS
	Radiated Emission	PASS

1.14 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

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

2.2 Frequency Range

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

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

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.

2.3.2 Limits of Radiated Emissions

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	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000-18000	79.3	59.3	73.9	53.9

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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.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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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	09/20/2019	09/19/2020
EMI Test Receiver	R&S	ESCI	101073	07/18/2019	07/17/2020
LISN	R&S	ENV216	101054	05/02/2019	05/01/2020
LISN	Schwarzbeck	NSLK8128	5012	04/18/2019	04/17/2020
Software	CCS-3A1-CE				

Compliance Certification Services Inc. (Wugu Laboratory)
No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)
Measurement Uncertainty of Conducted Emission
Expanded uncertainty Ulab (K=2) of conducted emission is 3.14 dB
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB

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2.4.2 Operating Environment

Temperature : 20 degree C Humidity : 45%RH
Atmospheric Pressure : 992 mBar

2.4.3 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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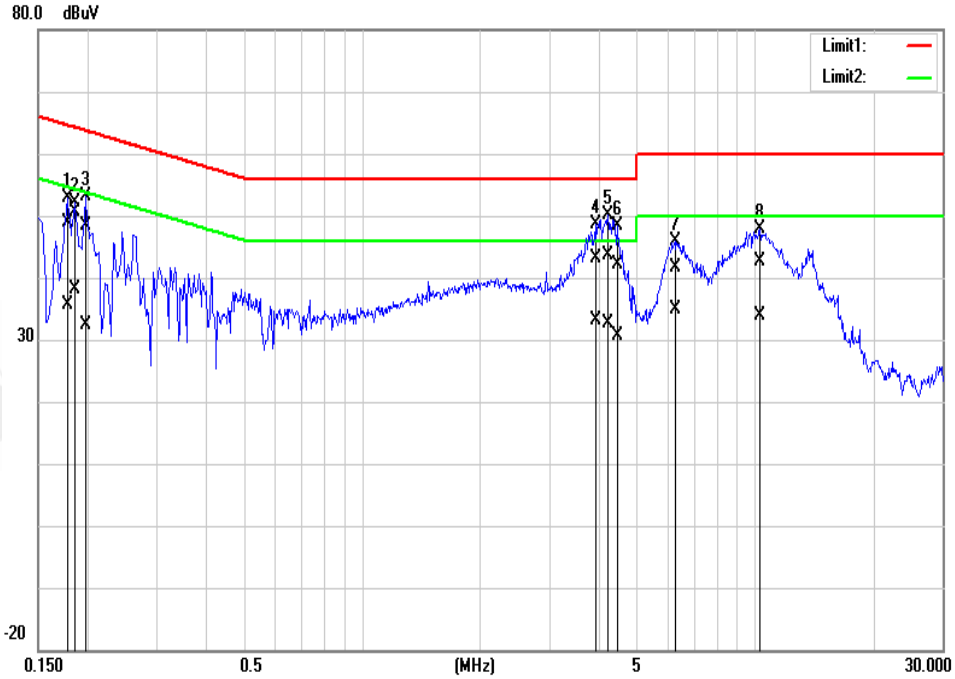
2.4.4 Measurement Data:

Model no.	TPN-I137	**Line:**	L1
Environmental Conditions	20℃, 45% RH	**Test Date**	2019/11/19
Test Mode	Mode 18	**Tested by**	Jemmy Wang
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	0.1780	39.04	25.83	9.76	48.80	35.59	64.57	54.58	-15.77	-18.99	Pass
2	0.1860	40.84	28.37	9.76	50.60	38.13	64.21	54.21	-13.61	-16.08	Pass
3	0.1980	38.71	22.69	9.76	48.47	32.45	63.69	53.69	-15.22	-21.24	Pass
4	3.9420	33.18	23.40	9.84	43.02	33.24	56.00	46.00	-12.98	-12.76	Pass
5*	4.2420	33.68	22.71	9.84	43.52	32.55	56.00	46.00	-12.48	-13.45	Pass
6	4.4660	32.21	20.68	9.84	42.05	30.52	56.00	46.00	-13.95	-15.48	Pass
7	6.2660	31.85	25.05	9.88	41.73	34.93	60.00	50.00	-18.27	-15.07	Pass
8	10.3300	32.67	23.86	9.94	42.61	33.80	60.00	50.00	-17.39	-16.20	Pass

Note: L1 = Line One (Live Line)

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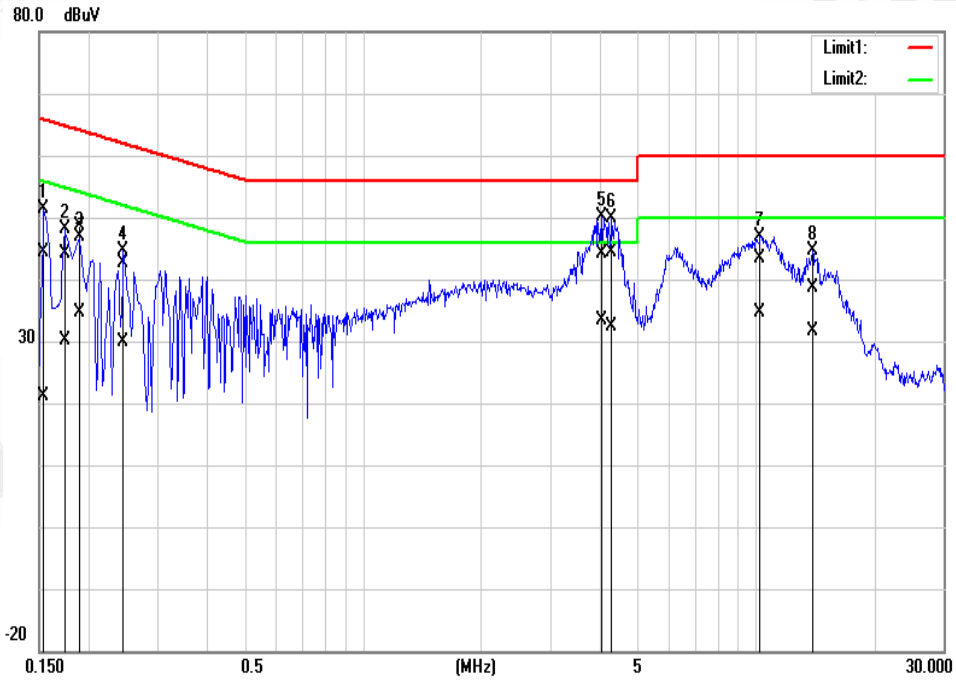
Model no.	TPN-I137	Line:	L2
Environmental Conditions	20℃, 45% RH	Test Date	2019/11/19
Test Mode	Mode 18	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1539	34.47	11.27	9.80	44.27	21.07	65.78	55.79	-21.51	-34.72	Pass
2	0.1740	34.32	20.41	9.79	44.11	30.20	64.76	54.77	-20.65	-24.57	Pass
3	0.1900	38.94	24.89	9.79	48.73	34.68	64.03	54.04	-15.30	-19.36	Pass
4	0.2460	32.91	20.00	9.79	42.70	29.79	61.89	51.89	-19.19	-22.10	Pass
5	4.0580	34.14	23.49	9.88	44.02	33.37	56.00	46.00	-11.98	-12.63	Pass
6*	4.3140	34.45	22.38	9.88	44.33	32.26	56.00	46.00	-11.67	-13.74	Pass
7	10.2460	33.26	24.71	10.00	43.26	34.71	60.00	50.00	-16.74	-15.29	Pass
8	13.9180	28.57	21.59	10.05	38.62	31.64	60.00	50.00	-21.38	-18.36	Pass

Note: L2 = Line Two (Neutral Line).

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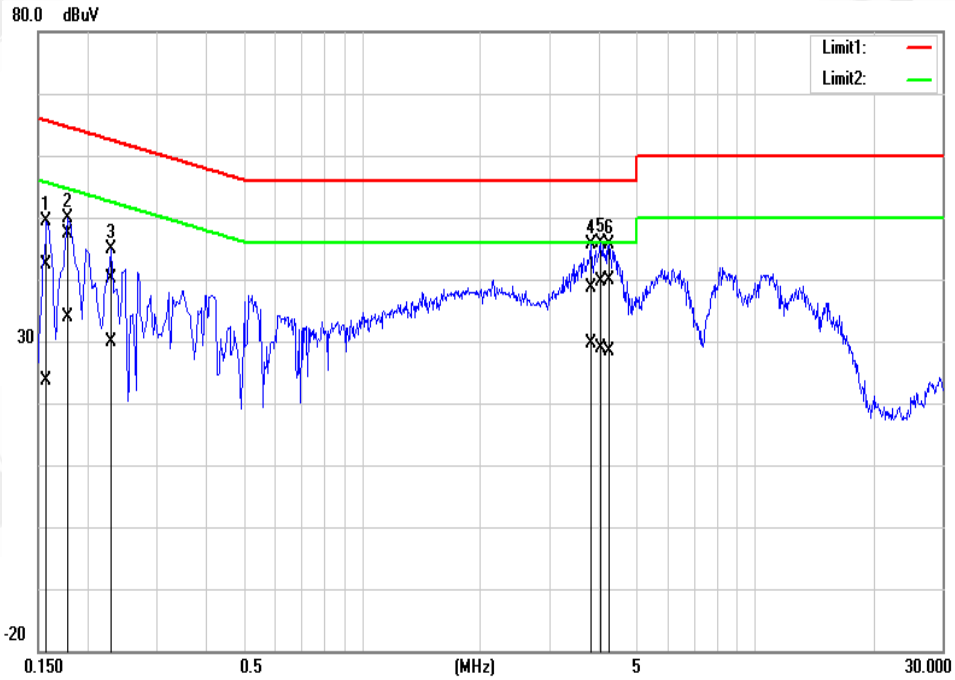
Model no.	TPN-I137	Line:	L1
Environmental Conditions	20℃, 45% RH	Test Date	2019/11/19
Test Mode	Mode 36	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1580	32.52	13.82	9.76	42.28	23.58	65.56	55.57	-23.28	-31.99	Pass
2	0.1780	37.70	24.02	9.76	47.46	33.78	64.57	54.58	-17.11	-20.80	Pass
3	0.2300	30.33	20.21	9.76	40.09	29.97	62.45	52.45	-22.36	-22.48	Pass
4	3.8380	28.85	19.79	9.84	38.69	29.63	56.00	46.00	-17.31	-16.37	Pass
5	4.0660	29.91	19.13	9.84	39.75	28.97	56.00	46.00	-16.25	-17.03	Pass
6*	4.2500	30.09	18.48	9.84	39.93	28.32	56.00	46.00	-16.07	-17.68	Pass

Note: L1 = Line One (Live Line)

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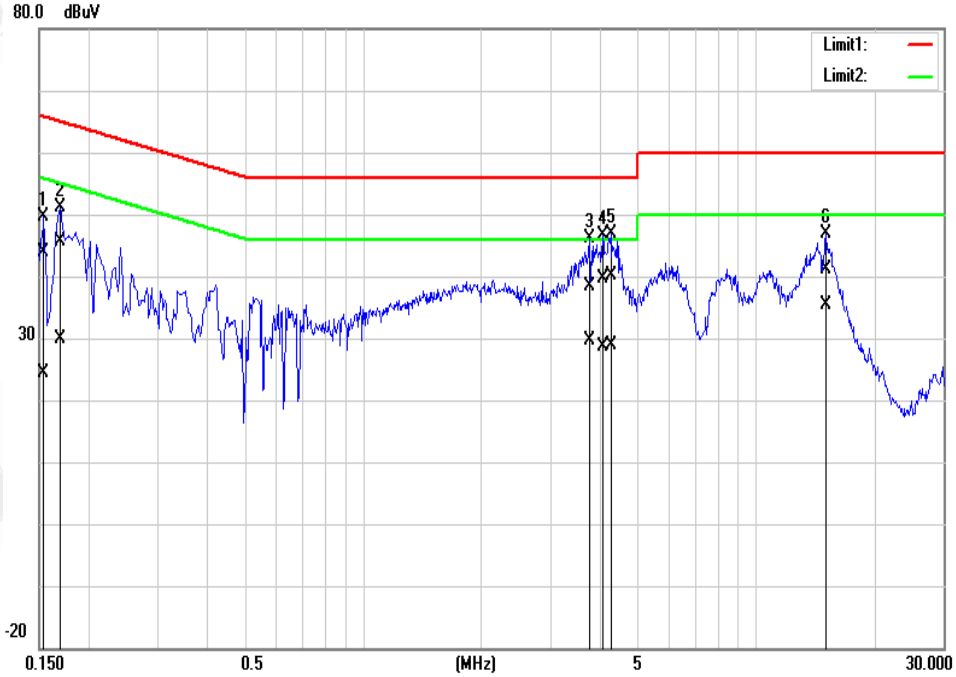
Model no.	TPN-I137	Line:	L2
Environmental Conditions	20℃, 45% RH	Test Date	2019/11/19
Test Mode	Mode 36	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1539	34.00	14.55	9.80	43.80	24.35	65.78	55.79	-21.98	-31.44	Pass
2	0.1700	35.86	20.04	9.79	45.65	29.83	64.96	54.96	-19.31	-25.13	Pass
3	3.7660	28.43	19.73	9.88	38.31	29.61	56.00	46.00	-17.69	-16.39	Pass
4	4.0900	29.79	18.86	9.88	39.67	28.74	56.00	46.00	-16.33	-17.26	Pass
5	4.2900	30.28	19.07	9.88	40.16	28.95	56.00	46.00	-15.84	-17.05	Pass
6*	15.1300	31.02	25.43	10.07	41.09	35.50	60.00	50.00	-18.91	-14.50	Pass

Note: L2 = Line Two (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	03/06/2019	03/05/2020
Bilog Antenna	TESEQ	CBL 6112D	31675	03/22/2019	03/21/2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/30/2019	04/29/2020
EMI Test Receiver	R&S	ESCI	100961	06/20/2019	06/19/2020
EMI Test Receiver	R&S	ESCI	100962	06/24/2019	06/23/2020
Pre-Amplifier	HP	8447D	2944A07754	04/30/2019	04/29/2020
Pre-Amplifier	HP	8447D	2944A08150	04/30/2019	04/29/2020
AC POWER SOURE	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)
No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)
Measurement Uncertainty of Radiated Emission
Expanded uncertainty Ulab (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)
Expanded uncertainty Ulab (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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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	04/30/2019	04/29/2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/30/2019	04/29/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Horn Antenna	EMCO	3117	00055167	12/24/2018	12/23/2019
Pre-Amplifier	EMCI	EMC051845	980040	04/30/2019	04/29/2020
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	06/18/2019	06/17/2020
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/27/2019	08/26/2020
AC POWER SOURE	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)
No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)
Measurement Uncertainty of Radiated Emission
Expanded uncertainty Ulab (K=2) of radiated emission is 4.89 dB. (1-6GHz)
Expanded uncertainty Ulab (K=2) of radiated emission is 5.27 dB. (6-18GHz)
Expanded uncertainty Ulab (K=2) of radiated emission is 4.13 dB. (18-26GHz)
Expanded uncertainty Ulab (K=2) of radiated emission is 4.28 dB. (26-40GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.18 dB.(1-6GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.48 dB.(6-18GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(18-26GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(26-40GHz)

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2.5.2 Operating Environment

Temperature : 23&26 degree C Humidity : 53&60 %RH

Atmospheric Pressure : 996 mBar

2.5.3 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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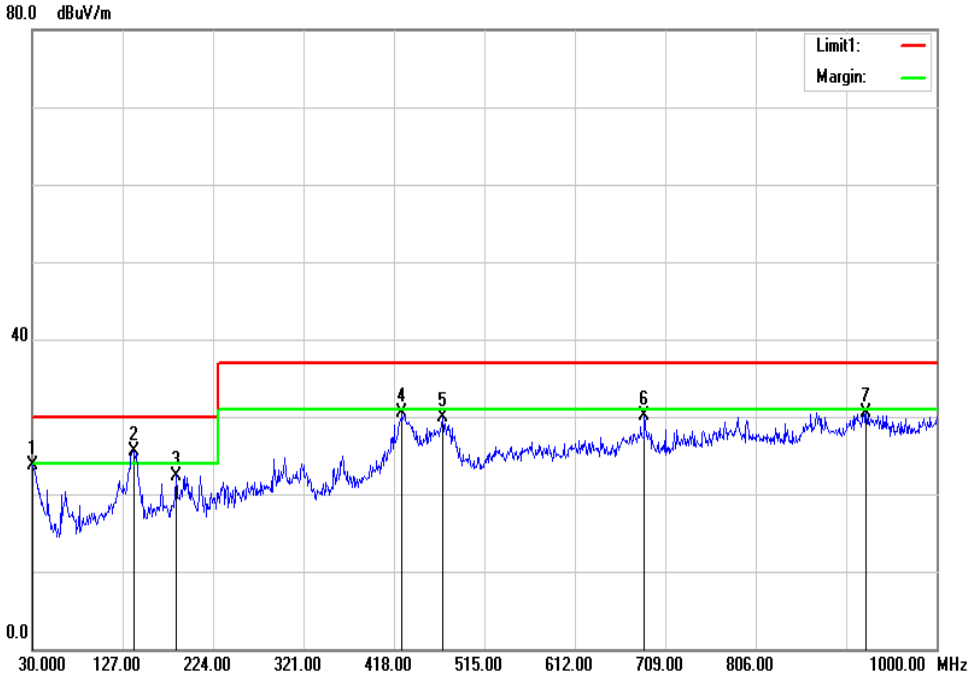
2.5.4 Measurement Data

Below 1GHz

Model no.	TPN-I137	**Test Mode**	Mode 18
Environmental Conditions	23℃, 53% RH	**Test Date**	2019/11/23
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.58	-2.79	23.79	30.00	-6.21	100	3	QP
2	138.6400	33.89	-8.31	25.58	30.00	-4.42	100	222	QP
3	184.2300	32.17	-9.77	22.40	30.00	-7.60	100	170	QP
4	426.7300	31.29	-0.83	30.46	37.00	-6.54	399	1	QP
5	470.3800	30.32	-0.46	29.86	37.00	-7.14	299	0	QP
6	686.6900	27.93	2.20	30.13	37.00	-6.87	399	118	QP
7	924.3400	25.23	5.31	30.54	37.00	-6.46	299	344	QP

REMARKS:

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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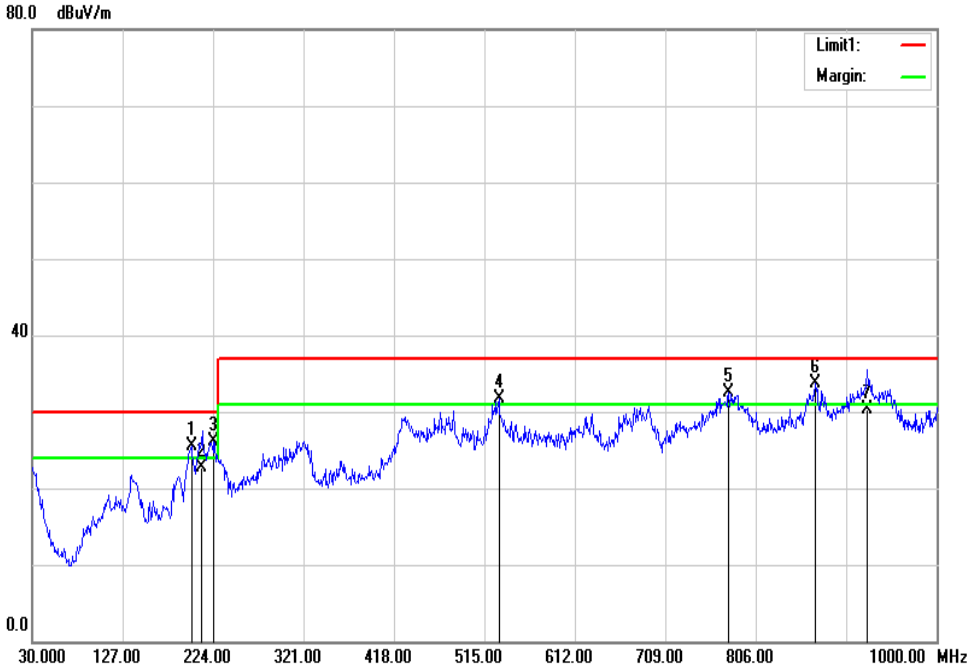
Model no.	TPN-I137	Test Mode	Mode 18
Environmental Conditions	23℃, 53% RH	Test Date	2019/11/23
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	200.7200	36.04	-10.47	25.57	30.00	-4.43	300	359	QP
2	212.2600	32.94	-10.29	22.65	30.00	-7.35	307	0	QP
3	224.9700	35.62	-9.54	26.08	30.00	-3.92	200	0	QP
4	530.5200	33.37	-1.74	31.63	37.00	-5.37	200	297	QP
5	776.9000	31.15	1.38	32.53	37.00	-4.47	100	171	QP
6	870.0200	31.01	2.69	33.70	37.00	-3.30	100	299	QP
7	925.1300	26.88	3.45	30.33	37.00	-6.67	300	291	QP

REMARKS:

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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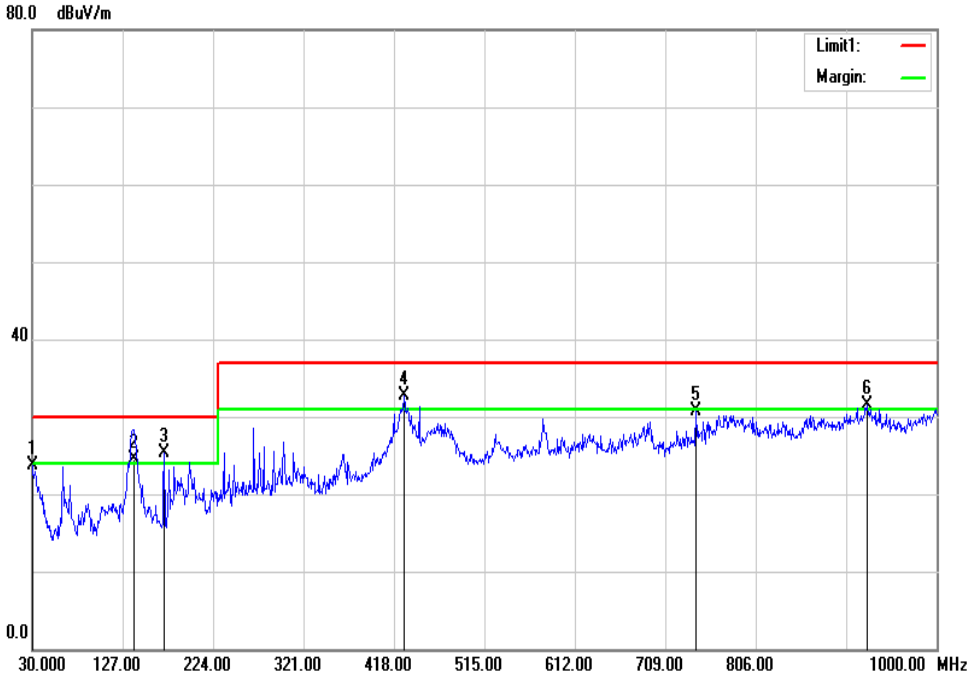
Model no.	TPN-I137	**Test Mode**	Mode 36
Environmental Conditions	23℃, 53% RH	**Test Date**	2019/11/23
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.03	-2.32	23.71	30.00	-6.29	100	342	QP
2	138.6500	32.88	-8.31	24.57	30.00	-5.43	101	360	QP
3	171.6200	34.86	-9.52	25.34	30.00	-4.66	100	180	QP
4	428.6700	33.53	-0.86	32.67	37.00	-4.33	299	360	QP
5	741.9800	27.61	3.03	30.64	37.00	-6.36	299	96	QP
6	925.3100	26.09	5.33	31.42	37.00	-5.58	199	100	QP

REMARKS:

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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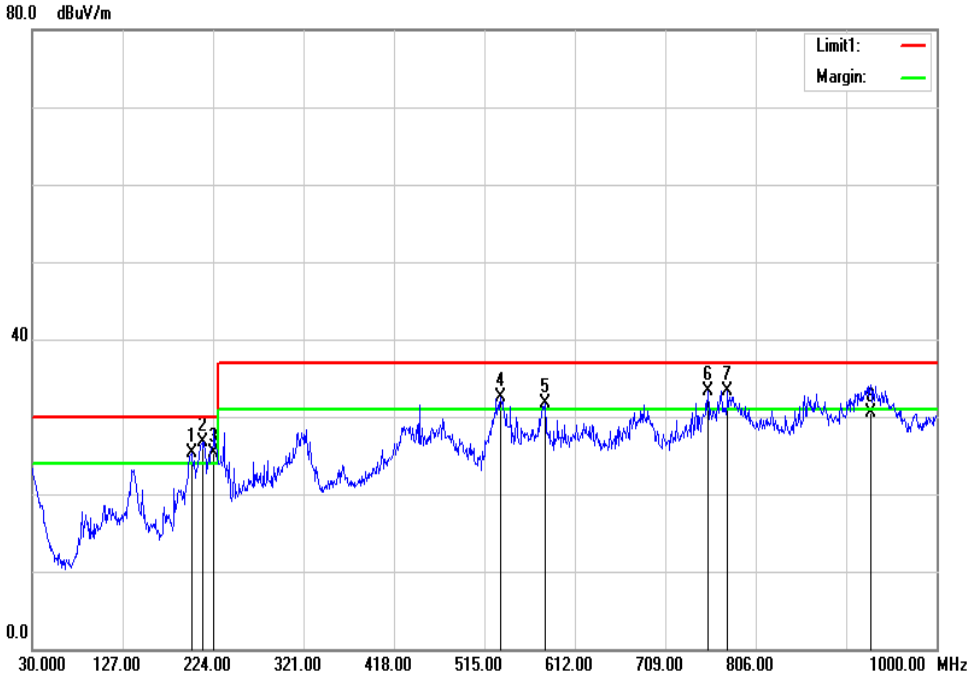
Model no.	TPN-I137	**Test Mode**	Mode 36
Environmental Conditions	23℃, 53% RH	**Test Date**	2019/11/23
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	200.7200	35.77	-10.47	25.30	30.00	-4.70	296	0	QP
2	212.3600	37.06	-10.28	26.78	30.00	-3.22	299	0	QP
3	225.0900	34.92	-9.53	25.39	30.00	-4.61	298	0	QP
4	532.4600	34.28	-1.68	32.60	37.00	-4.40	200	288	QP
5	579.9900	32.43	-0.77	31.66	37.00	-5.34	399	360	QP
6	754.5900	31.95	1.27	33.22	37.00	-3.78	100	227	QP
7	775.9300	31.93	1.38	33.31	37.00	-3.69	100	227	QP
8	929.1900	26.99	3.54	30.53	37.00	-6.47	100	260	QP

REMARKS:

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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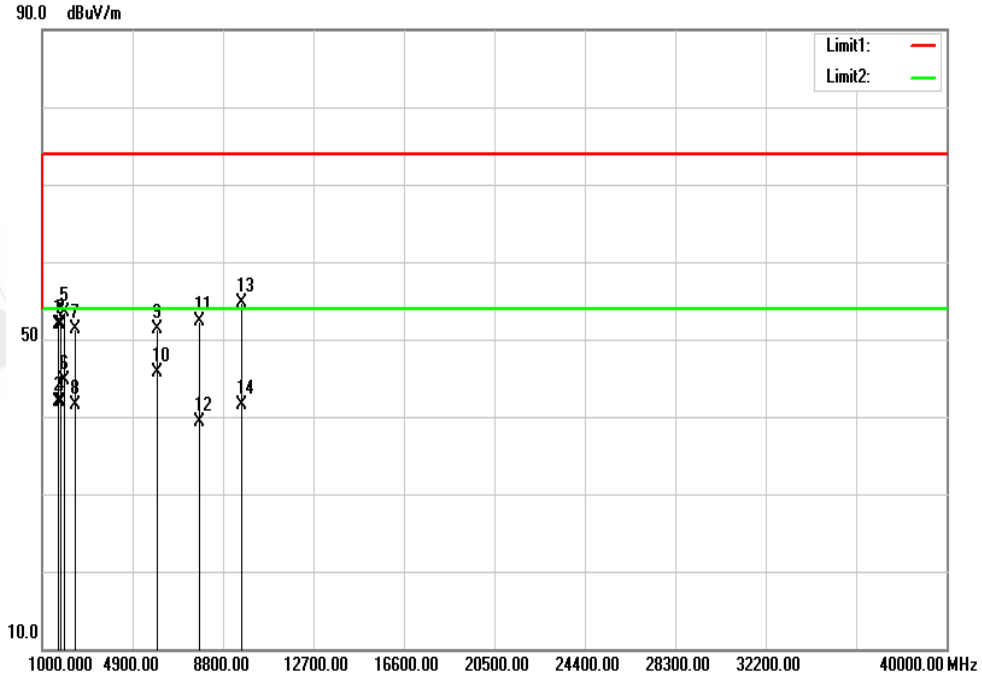
Above 1GHz

Model no.	TPN-I137	**Test Mode**	Mode 18
Environmental Conditions	23℃, 53% RH	**Test Date**	2019/11/23
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	1.3GHz	**Upper frequency**	6.5GHz
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	1688.500	69.89	-17.93	51.96	74.00	-22.04	200	42	peak
2	1688.500	59.87	-17.93	41.94	54.00	-12.06	200	42	AVG
3	1756.500	69.15	-17.32	51.83	74.00	-22.17	199	0	peak
4	1756.500	59.31	-17.32	41.99	54.00	-12.01	199	0	AVG
5	1969.000	68.76	-15.32	53.44	74.00	-20.56	300	250	peak
6	1969.000	60.03	-15.32	44.71	54.00	-9.29	300	250	AVG
7	2368.500	65.53	-14.30	51.23	74.00	-22.77	200	64	peak

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8	2368.500	55.79	-14.30	41.49	54.00	-12.51	200	64	AVG
9	5938.500	56.84	-5.54	51.30	74.00	-22.70	162	0	peak
10	5938.500	51.30	-5.54	45.76	54.00	-8.24	162	0	AVG
11	7774.500	55.93	-3.55	52.38	74.00	-21.62	300	152	peak
12	7774.500	42.93	-3.55	39.38	54.00	-14.62	300	152	AVG
13	9542.500	55.04	-0.25	54.79	74.00	-19.21	205	360	peak
14	9542.500	41.75	-0.25	41.50	54.00	-12.50	205	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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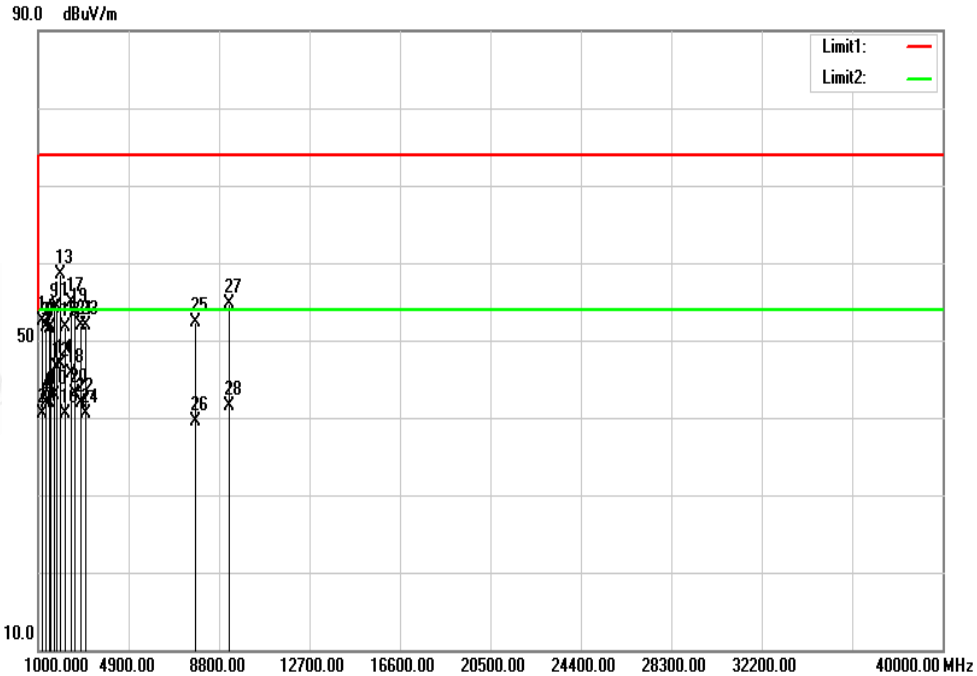
Model no.	TPN-I137	Test Mode	Mode 18
Environmental Conditions	23℃, 53% RH	Test Date	2019/11/23
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	1.3GHz	Upper frequency	6.5GHz
Detector Function	Peak & Average.	Tested by	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1136.000	71.77	-19.35	52.42	74.00	-21.58	300	193	peak
2	1136.000	59.77	-19.35	40.42	54.00	-13.58	300	193	AVG
3	1280.500	70.61	-18.81	51.80	74.00	-22.20	200	121	peak
4	1280.500	60.69	-18.81	41.88	54.00	-12.12	200	121	AVG
5	1476.000	70.06	-18.60	51.46	74.00	-22.54	200	205	peak
6	1476.000	60.55	-18.60	41.95	54.00	-12.05	200	205	AVG
7	1535.500	70.44	-18.66	51.78	74.00	-22.22	300	109	peak
8	1535.500	61.32	-18.66	42.66	54.00	-11.34	300	109	AVG

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9	1688.500	72.03	-17.93	54.10	74.00	-19.90	200	99	peak
10	1688.500	60.90	-17.93	42.97	54.00	-11.03	200	99	AVG
11	1773.500	71.53	-17.16	54.37	74.00	-19.63	200	227	peak
12	1773.500	63.58	-17.16	46.42	54.00	-7.58	200	227	AVG
13	1926.500	74.32	-15.72	58.60	74.00	-15.40	100	247	peak
14	1926.500	62.65	-15.72	46.93	54.00	-7.07	100	247	AVG
15	2164.500	66.31	-14.55	51.76	74.00	-22.24	200	220	peak
16	2164.500	55.13	-14.55	40.58	54.00	-13.42	200	220	AVG
17	2394.000	69.19	-14.29	54.90	74.00	-19.10	200	99	peak
18	2394.000	59.90	-14.29	45.61	54.00	-8.39	200	99	AVG
19	2598.000	67.48	-13.91	53.57	74.00	-20.43	200	220	peak
20	2598.000	57.02	-13.91	43.11	54.00	-10.89	200	220	AVG
21	2810.500	65.00	-13.09	51.91	74.00	-22.09	200	190	peak
22	2810.500	55.06	-13.09	41.97	54.00	-12.03	200	190	AVG
23	3014.500	64.38	-12.51	51.87	74.00	-22.13	100	103	peak
24	3014.500	52.98	-12.51	40.47	54.00	-13.53	100	103	AVG
25	7774.500	55.77	-3.55	52.22	74.00	-21.78	100	352	peak
26	7774.500	43.02	-3.55	39.47	54.00	-14.53	100	352	AVG
27	9194.000	55.82	-1.16	54.66	74.00	-19.34	300	291	peak
28	9194.000	42.73	-1.16	41.57	54.00	-12.43	300	291	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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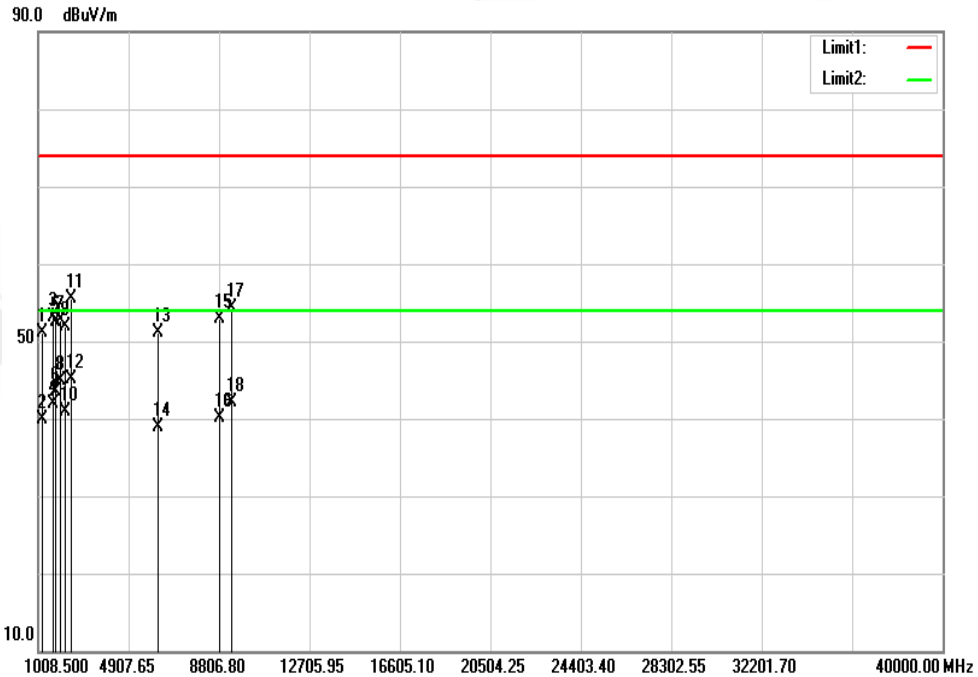
Model no.	TPN-I137	**Test Mode**	Mode 36
Environmental Conditions	26℃, 60% RH	**Test Date**	2019/11/23
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	1.3GHz	**Upper frequency**	6.5GHz
Detector Function	Peak & Average.	**Tested by**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	1136.000	70.37	-19.35	51.02	74.00	-22.98	200	64	peak
2	1136.000	59.19	-19.35	39.84	54.00	-14.16	200	64	AVG
3	1654.500	71.31	-18.23	53.08	74.00	-20.92	200	170	peak
4	1654.500	60.15	-18.23	41.92	54.00	-12.08	200	170	AVG
5	1748.000	69.81	-17.39	52.42	74.00	-21.58	200	42	peak
6	1748.000	60.88	-17.39	43.49	54.00	-10.51	200	42	AVG
7	1960.500	68.17	-15.40	52.77	74.00	-21.23	200	277	peak

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8	1960.500	60.33	-15.40	44.93	54.00	-9.07	200	277	AVG
9	2173.000	66.36	-14.53	51.83	74.00	-22.17	200	178	peak
10	2173.000	55.38	-14.53	40.85	54.00	-13.15	200	178	AVG
11	2394.000	69.74	-14.29	55.45	74.00	-18.55	200	262	peak
12	2394.000	59.37	-14.29	45.08	54.00	-8.92	200	262	AVG
13	6125.500	55.89	-4.79	51.10	74.00	-22.90	101	0	peak
14	6125.500	43.65	-4.79	38.86	54.00	-15.14	101	0	AVG
15	8777.500	55.09	-2.09	53.00	74.00	-21.00	300	227	peak
16	8777.500	42.24	-2.09	40.15	54.00	-13.85	300	227	AVG
17	9338.500	55.02	-0.76	54.26	74.00	-19.74	200	0	peak
18	9338.500	42.90	-0.76	42.14	54.00	-11.86	200	0	AVG

REMARKS:

1. The other emission levels were very low against the limit.

2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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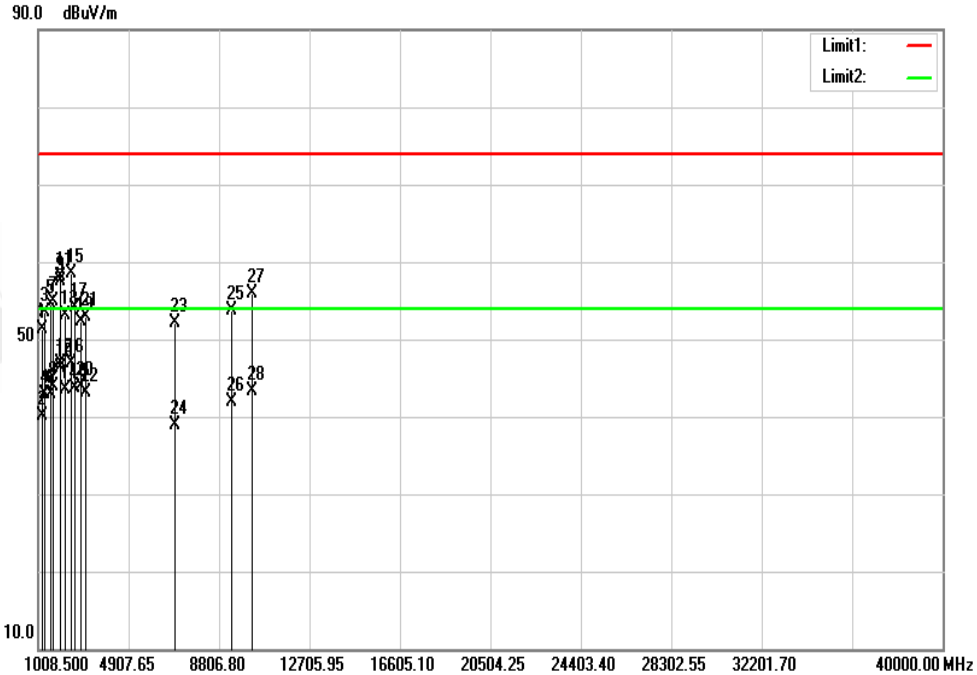
Model no.	TPN-I137	**Test Mode**	Mode 36
Environmental Conditions	26℃, 60% RH	**Test Date**	2019/11/23
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	1.3GHz	**Upper frequency**	6.5GHz
Detector Function	Peak & Average.	**Tested by**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	1127.500	70.78	-19.40	51.38	74.00	-22.62	200	303	peak
2	1127.500	59.53	-19.40	40.13	54.00	-13.87	200	303	AVG
3	1272.000	72.34	-18.83	53.51	74.00	-20.49	200	121	peak
4	1272.000	61.79	-18.83	42.96	54.00	-11.04	200	121	AVG
5	1535.500	73.15	-18.66	54.49	74.00	-19.51	300	109	peak
6	1535.500	61.54	-18.66	42.88	54.00	-11.12	300	109	AVG
7	1663.000	73.08	-18.16	54.92	74.00	-19.08	200	121	peak

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8	1663.000	62.05	-18.16	43.89	54.00	-10.11	200	121	AVG
9	1918.000	73.28	-15.81	57.47	74.00	-16.53	100	238	peak
10	1918.000	62.21	-15.81	46.40	54.00	-7.60	100	238	AVG
11	1969.000	73.34	-15.32	58.02	74.00	-15.98	100	238	peak
12	1969.000	62.15	-15.32	46.83	54.00	-7.17	100	238	AVG
13	2173.000	67.57	-14.53	53.04	74.00	-20.96	200	144	peak
14	2173.000	58.08	-14.53	43.55	54.00	-10.45	200	144	AVG
15	2402.500	72.69	-14.28	58.41	74.00	-15.59	200	99	peak
16	2402.500	61.19	-14.28	46.91	54.00	-7.09	200	99	AVG
17	2581.000	67.97	-13.94	54.03	74.00	-19.97	200	83	peak
18	2581.000	57.73	-13.94	43.79	54.00	-10.21	200	83	AVG
19	2836.000	65.42	-13.02	52.40	74.00	-21.60	200	129	peak
20	2836.000	56.96	-13.02	43.94	54.00	-10.06	200	129	AVG
21	2997.500	65.45	-12.54	52.91	74.00	-21.09	100	140	peak
22	2997.500	55.70	-12.54	43.16	54.00	-10.84	100	140	AVG
23	6882.000	55.79	-3.76	52.03	74.00	-21.97	200	250	peak
24	6882.000	42.70	-3.76	38.94	54.00	-15.06	200	250	AVG
25	9321.500	54.50	-0.81	53.69	74.00	-20.31	300	139	peak
26	9321.500	42.77	-0.81	41.96	54.00	-12.04	300	139	AVG
27	10188.500	54.61	1.38	55.99	74.00	-18.01	200	354	peak
28	10188.500	41.83	1.38	43.21	54.00	-10.79	200	354	AVG

REMARKS:

1. The other emission levels were very low against the limit.

2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.

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3. Photographs of Test

CE Testing Set-up

Model No.: TPN-I137

Mode_18, 36_+

Mode_18, 36_-

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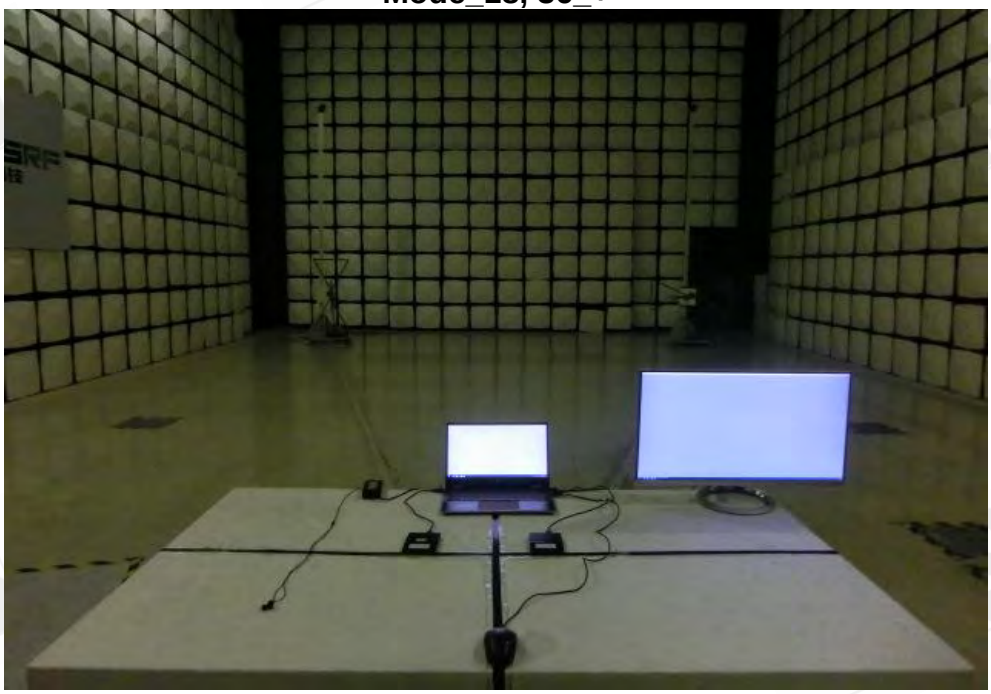
RE Testing Set-up

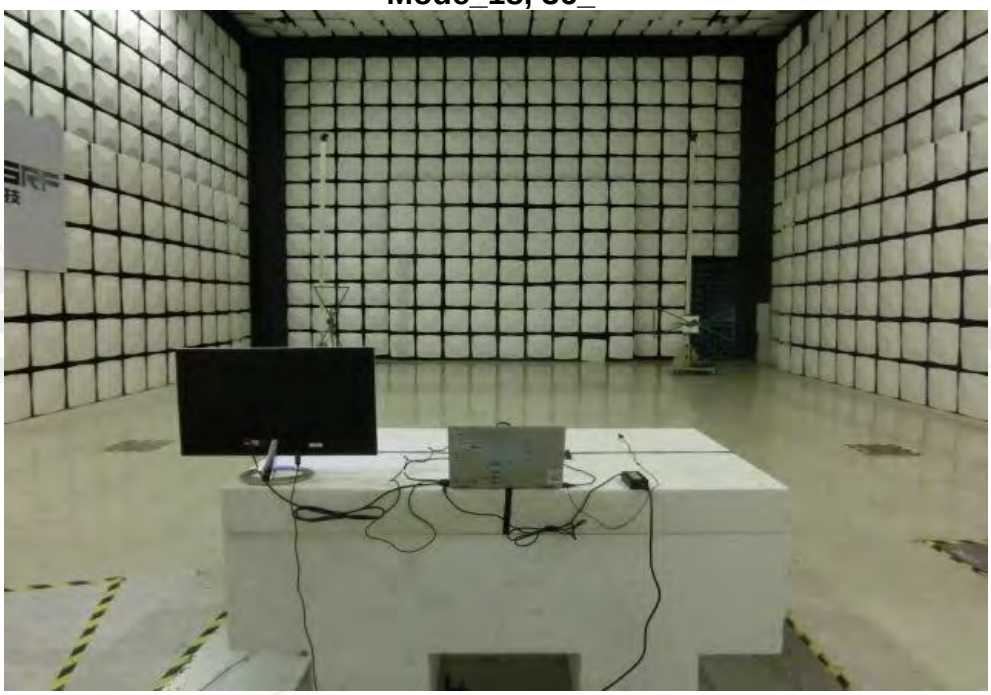
Below 1GHz

Model No.: TPN-I137

Mode_18, 36_+



Mode_18, 36_-



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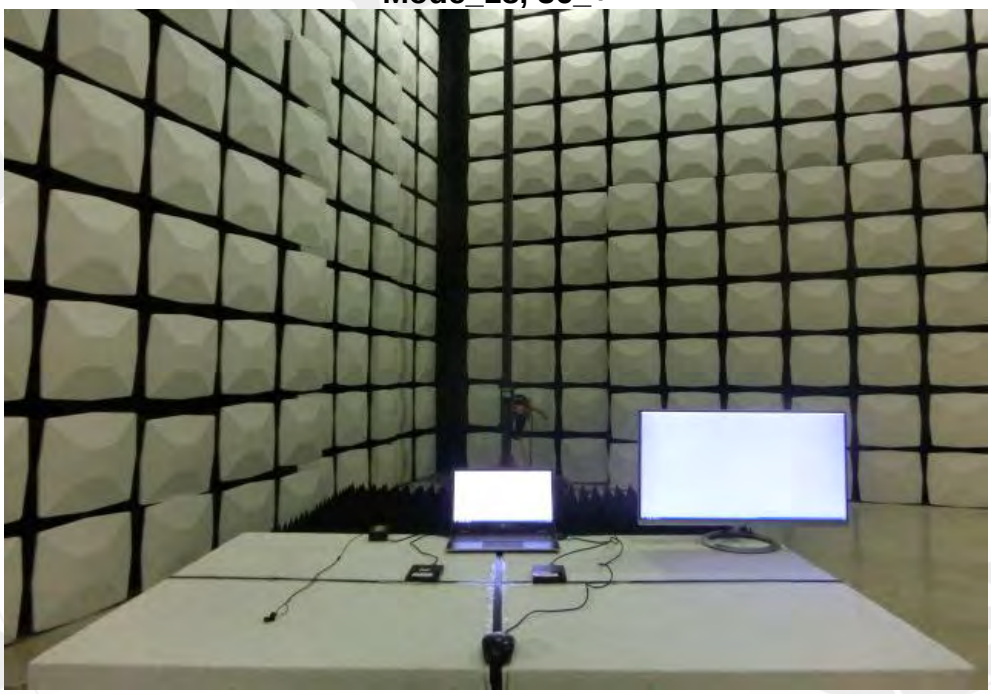
Above 1GHz

Model No.: TPN-I137

Mode_18, 36_+



Mode_18, 36_-

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4. Photographs of Product

Exterior

Model No.: TPN-I137

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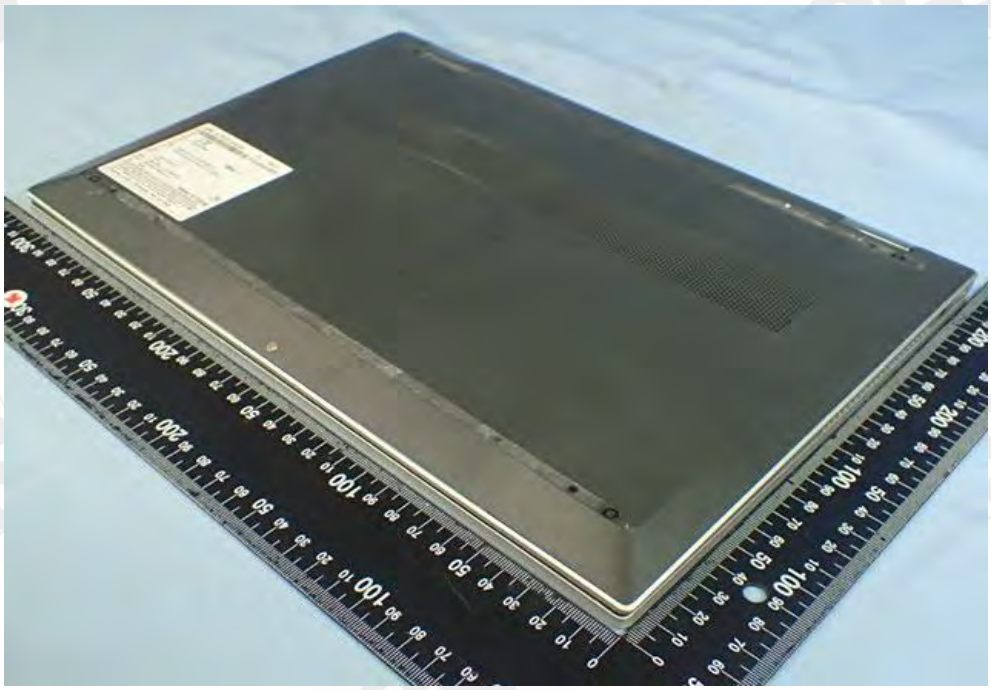

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Adapter Model No.: TPN-AA05

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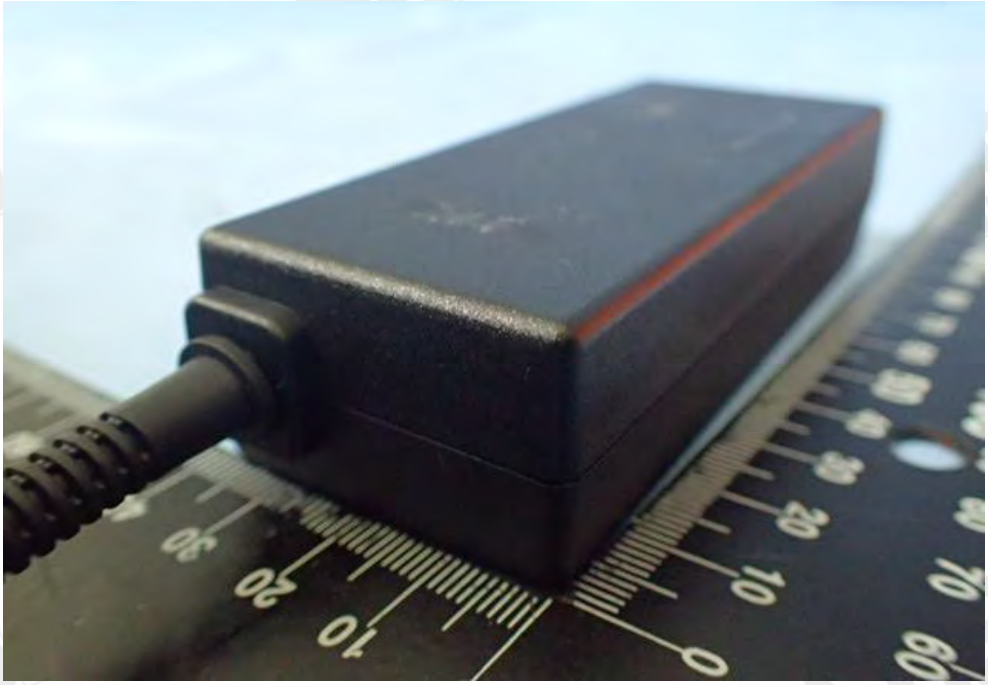
Adapter Model No.: TPN-AA07



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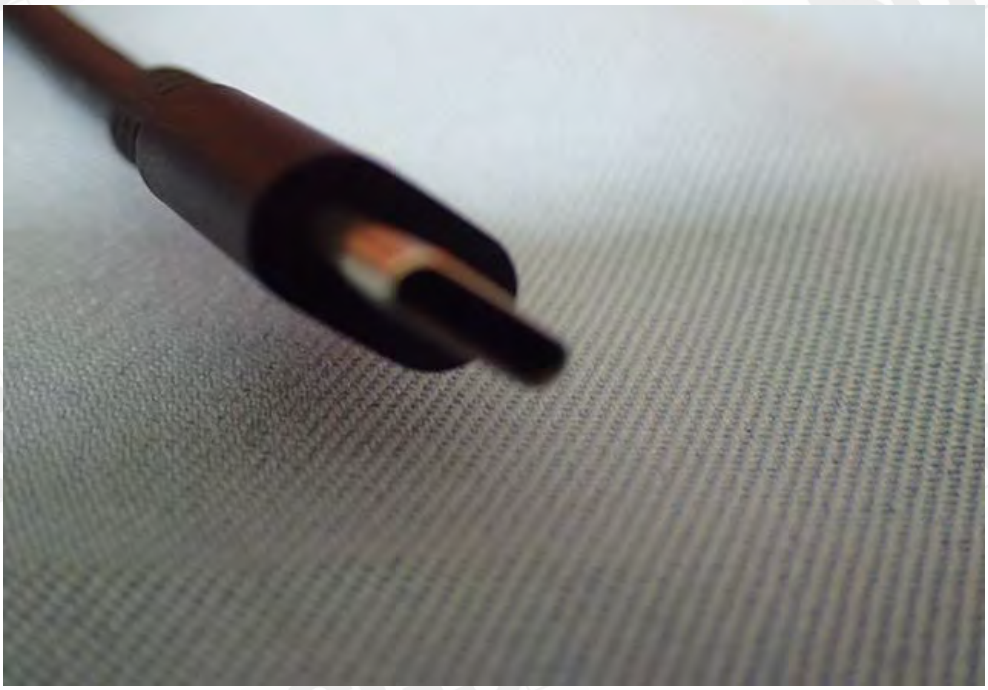

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Adapter Model No.: TPN-CA14

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Adapter Model No.: TPN-CA17

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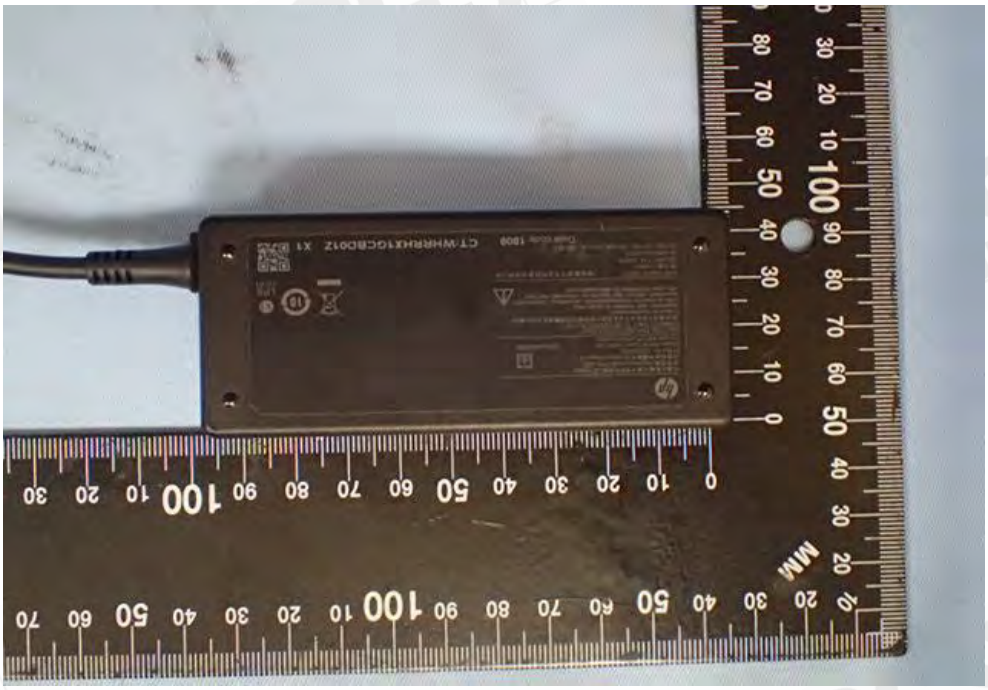
Adapter Model No.: TPN-CA20



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Adapter Model No.: TPN-DA15

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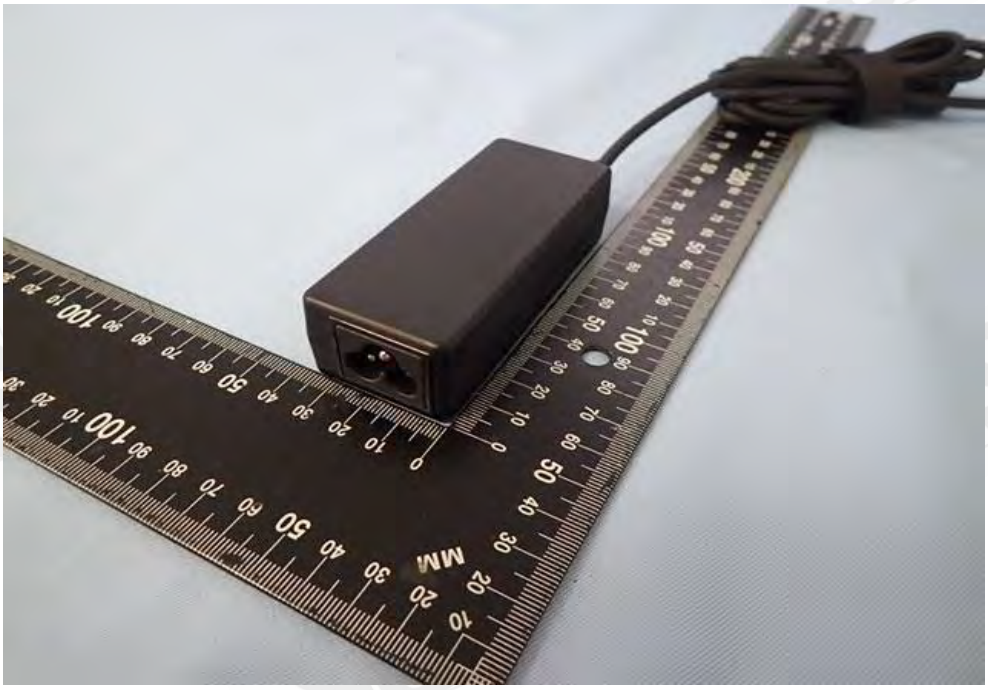
Adapter Model No.: TPN-DA16



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Adapter Model No.: TPN-LA15

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Adapter Model No.: TPN-LA17

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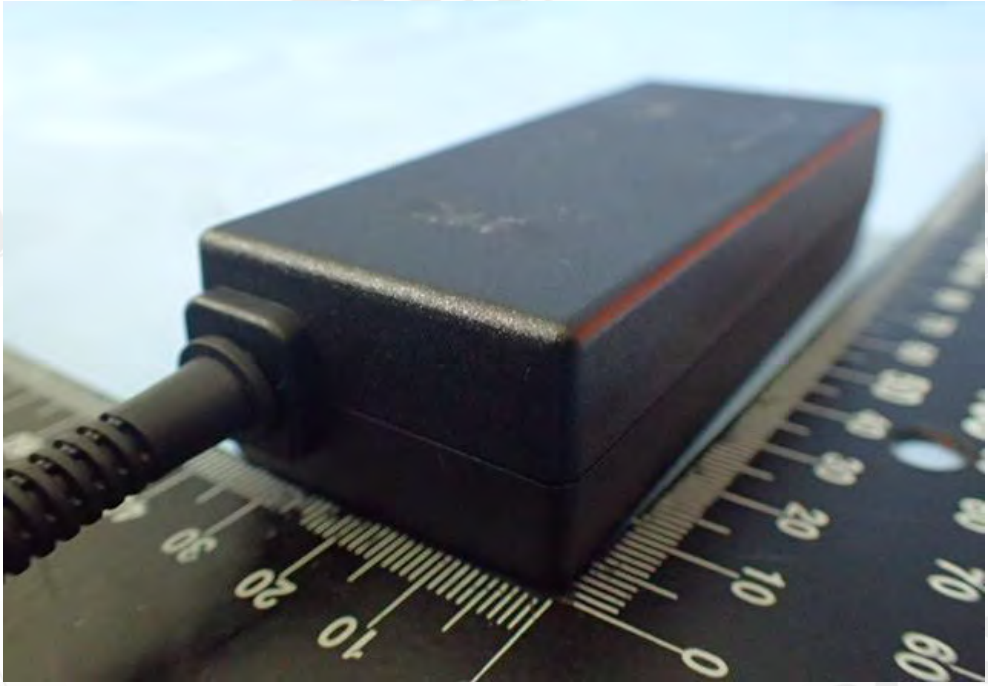
Adapter Model No.: TPN-LA19



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Pen Model No.: Waltop / TCS-H02

Pen Model No.: Waltop / TCS-H02B

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Pen Model No.: Sunwoda / TCS-H02

Pen Model No.: Sunwoda / TCS-H02B

** End of Report **

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