

# FCC SDoC REPORT

## ISED ICES-003 TEST REPORT

**Test Report No.** : T200803L04-F  
**Applicant** : INVENTEC CORPORATION  
**Address** : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.  
**Manufacturer** : INVENTEC CORPORATION  
**Address** : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

**Equipment Under Test (EUT) :**  
**Product Name** : Notebook Computer  
**Brand Name** : HP  
**Model No.** : HSN-I42C  
**Added Model(s)** : N/A  
**Standards** : FCC Part 15 Subpart B, Class B  
ISED ICES-003 Issue 6: 2016, Class B  
**Date of Sample Receipt** : Sep. 09, 2020  
**Date of Test** : Sep. 09 ~ 11, 2020  
**Date of Issue** : Sep. 18, 2020

<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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Compliance Certification Services Inc. or testing done by Compliance Certification Services Inc. in connection with distribution or use of the product described in this report must be approved by Compliance Certification Services Inc. in writing.

**Approved By:**



**Date:**

Sep. 18, 2020



**Hex Chiang (Asst. Section Manager)**

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## Revision History

Revision	Description	Issue Date	Remark
00	Original	Sep. 18, 2020	T200803L04-F

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.  
Manufacturer : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

## 1.2 General Description of EUT

Product Name : Notebook Computer  
Brand Name : HP  
Model No. : HSN-I42C  
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	3.0GHz	
Power Adapter	Chicony (hp)	TPN-CA10
		TPN-CA14
		TPN-CA15
		TPN-CA16
		TPN-CA17
		TPN-CA21
	Acbel (hp)	TPN-AA05
		TPN-AA06
	Lite-on (hp)	TPN-LA12
		TPN-LA15
		TPN-LA16
		TPN-LA17
	Delta (hp)	TPN-DA16
		TPN-DA17
		TPN-DA20
		TPN-DA22
	Artesyn (hp)	TPN-TA02
Honor (hp)	TPN-HA01	
Adapter Power Rating	<b>For TPN-CA10 ; TPN-LA12</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-CA14 ; TPN-CA15 ; TPN-AA05 ; TPN-DA16 ; TPN-DA22</b> I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 19.5Vdc, 2.31A	
	<b>For TPN-CA16 ; TPN-CA17 ; TPN-AA06 ; TPN-LA16 ; TPN-LA17 ; TPN-DA17</b> I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 19.5Vdc, 3.33A	
	<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	

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Adapter Power Rating	<b>For TPN-LA15</b> I/P: 100-240Vac, 50-60Hz, 1.1A O/P: 19.5Vdc, 2.31A	
	<b>For TPN-CA21 ; TPN-TA02 ; TPN-HA01</b> 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	Non-shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 4 3200MHz (8GB/16GB/32GB)	
Main Board (TGL)	Inventec	6050A3219701
CPU	Intel	i5-1135G7 2.4GHz
		i5-1145G7 2.6GHz
		i7-1165G7 2.8GHz
		i7-1185G7 3.0GHz
13.3" LCD Panel	AUO	B133HAN05.H
		B133HAN06.7
	BOE	NV133FHM-N4T
	LGD	LP133WF9
Touch Screen	GIS	9AN13317-001
		9AN13317-011
		9AN13317-021
	TPK	T08ALC13317HA
		T08ALC13317HB
		T08ALC13318HA
	eMMC	Hynix
Kingston		EMMC32G-TB29 (32GB)
Ramaxel		RETMEDB32GSBB (32GB)
SanDisk		SDINBDA4-32G-V (32GB)
SSD	Samsung	MZVLQ128HBHQ-000H1 (128GB)
		MZVLB256HBHQ-000H1 (256GB)
		MZVLQ256HAJD-000H1 (256GB)
		MZVLB256HBHQ-000H7 (256GB)

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SSD	Samsung	MZVLB512HBJQ-000H1 (512GB)
		MZVLQ512HALU-000H1 (512GB)
		MZVLB512HBJQ-000H7 (512GB)
		MZVLB1T0HBLR-000H1 (1TB)
		MZVLB2T0HALB-000H1 (2TB)
	Kioxia	KBG40ZNV128G (128GB)
		KXG60ZNV256G (256GB)
		KBG40ZNV256G (256GB)
		KXG6AZNV256G (256GB)
		KXG60ZNV512G (512GB)
		KBG40ZNV512G (512GB)
		KXG6AZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG60PNV2T04 (2TB)
	Intel	SSDPEKNW512G8H (512GB)
		HBRPEKNX0202AH (512GB)
	Western Digital	SDAPNUW-128G-1006 (128GB)
		SDBPNTY-256G-1006 (256GB)
		SDBPNPZ-256G-1006 (256GB)
		SDBQNTY-256G-1006 (256GB)
		SDBPNTY-512G-1006 (512GB)
		SDBPNPZ-512G-1006 (512GB)
		SDBQNTY-512G-1006 (512GB)
		SDBPNTY-1T00-1006 (1TB)
	Hynix	HFM128GD3JX013N (128GB)
		HFS256GD9TNG-L2A0A (256GB)
		HFM256GDJTNi-82A0A (256GB)
		HFM256GD3JX013N (256GB)
		HFS512GD9TNG-L2A0A (512GB)
		HFM512GDJTNi-82A0A (512GB)
		HFM512GD3JX013N (512GB)
		HFS001TD9TNG-L2A0A (1TB)
Micron	MTFDHBA256TDV-1AY1AABHA (256GB)	

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SSD	Micron	MTFDHBA512TDV-1AZ1AABHA (512GB)
		MTFDHBA512QFD-1AX1AABHA (512GB)
		MTFDHBA1T0TDV-1AZ1AABHA (1TB)
	SSSTC	CL1-8D128-HP (128GB)
Battery Pack	Simplo (hp)	HSTNN-IB9G
	LGChem (hp)	HSTNN-LB8R
Wireless LAN+Bluetooth Combo	Intel	AX201NGW
NFC	WNC	XRAV-1
WWAN	Fibocom	L850-GL
	Foxconn	T99W175
CCD	Chicony	CKFJH2321004332LH
		CNFJH4521004330LH
	Luxvisions	9BF112N3
		9SF120N3
		9SF121N3
	TFC	YHKM
		YHSC-1
YHSD-1		

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Pre-test Mode

Mode	CPU	Memory	Panel	Touch Screen	SSD	Battery	WLAN+BT	NFC	WWAN	CCD	Adapter	Main Board	Docking	Adapter (Support Unit)
1	Intel i5-1135G7 2.4GHz	8GB + 8GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-001	Samsung MZVLQ128HBMQ-000H1 (128GB)	Simplo (hp) HSTNN-LB9G	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Chicony CNFJH452100 4330LH	Chicony (hp) TPN-CA10	Inventec 6050A3219701	N/A	N/A
2	Intel i5-1145G7 2.6GHz	8GB + 16GB DDR4 3200MHz	AUO B133HAN06.7	GIS 9AN13317-011	Samsung MZVLB256HBMQ-000H1 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	Chicony CKFJH232100 4330LH	Chicony (hp) TPN-CA14	Inventec 6050A3219701	N/A	N/A
3	Intel i7-1185G7 2.8GHz	8GB + 32GB DDR4 3200MHz	BOE NV133FHIM-NAT	GIS 9AN13317-021	Samsung MZVLQ256HAJD-000H1 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	Luxvisions 9BF112N3	Chicony (hp) TPN-CA15	Inventec 6050A3219701	N/A	N/A
4	Intel i7-1185G7 3.0GHz	16GB + 16GB DDR4 3200MHz	IVO X133NVFF	TPK T08ALC13317HA	Samsung MZVLB256HBMQ-000H7 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	Luxvisions 9SF120N3	Chicony (hp) TPN-CA16	Inventec 6050A3219701	N/A	N/A
5	Intel i7-1185G7 3.0GHz	16GB + 32GB DDR4 3200MHz	LGD LP133WF9	TPK T08ALC13317HB	Samsung MZVLB512HBJQ-000H1 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	Luxvisions 9SF121N3	Chicony (hp) TPN-CA17	Inventec 6050A3219701	N/A	N/A
6	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	TPK T08ALC13318HA	Samsung MZVLQ512HALU-000H1 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHKM	Chicony (hp) TPN-CA21	Inventec 6050A3219701	N/A	N/A
7	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Samsung MZVLB512HBJQ-000H7 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Acbel (hp) TPN-AA05	Inventec 6050A3219701	N/A	N/A
8	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Samsung MZVLB1170HBLR-000H1 (1TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSD-1	Acbel (hp) TPN-AA06	Inventec 6050A3219701	N/A	N/A
9	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Samsung MZVLB210HALB-000H1 (2TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA12	Inventec 6050A3219701	N/A	N/A
10	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KBG40ZNV128G (128GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA15	Inventec 6050A3219701	N/A	N/A
11	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG60ZNV256G (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
12	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KBG40ZNV256G (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA17	Inventec 6050A3219701	N/A	N/A
13	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG6AZNV256G (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Delta (hp) TPN-DA16	Inventec 6050A3219701	N/A	N/A
14	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG60ZNV512G (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Delta (hp) TPN-DA17	Inventec 6050A3219701	N/A	N/A
15	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KBG40ZNV512G (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Delta (hp) TPN-DA20	Inventec 6050A3219701	N/A	N/A
16	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG6AZNV512G (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Delta (hp) TPN-DA22	Inventec 6050A3219701	N/A	N/A
17	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG60ZNV1T02 (1TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Artesyn (hp) TPN-TA02	Inventec 6050A3219701	N/A	N/A
18	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG60PNV2T04 (2TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Honor (hp) TPN-HA01	Inventec 6050A3219701	N/A	N/A
19	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Intel SSDPEKNW512G8H (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
20	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Intel HBRPEKNX0202AH (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
21	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDAPNUW-128G-1006 (128GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
22	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNTY-256G-1006 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
23	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNPZ-256G-1006 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
24	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBONTY-256G-1006 (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
25	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNTY-512G-1006 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
26	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNPZ-512G-1006 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
27	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBONTY-512G-1006 (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
28	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNTY-1T00-1006 (1TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
29	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFM128GD3JX013N (128GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
30	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFS256GD9TNG-L2A0A (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
31	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFM256GDJNTI-82A0A (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
32	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFM256GD3JX013N (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
33	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFS512GD9TNG-L2A0A (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
34	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFM512GDJNTI-82A0A (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A

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Mode	CPU	Memory	Panel	Touch Screen	SSD	Battery	WLAN+BT	NFC	WWAN	CCD	Adapter	Main Board	Docking	Adapter (Support Unit)
35	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFM512GD3JX013N (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
36	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Hynix HFS001TD9TNG-L2A0A (1TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
37	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Micron MTFDHBAA256TDV-1AY1AABHA (256GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
38	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Micron MTFDHBAA512TDV-1AZ1AABHA (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
39	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Micron MTFDHBAA512QFD-1AX1AABHA (512GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
40	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Micron MTFDHBAA1T0TDV-1AZ1AABHA (1TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
41	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	SSSTC CL1-8D128-HP (128GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
42	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Kioxia KXG60PNV2T04 (2TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	N/A	N/A
43	Intel i7-1185G7 3.0GHz	32GB + 32GB DDR4 3200MHz	AUO B133HAN05.H	GIS 9AN13317-021	Western Digital SDBPNTZ-2T00-1106 (2TB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Foxconn T99W175	TFC YHSC-1	Lite-on (hp) TPN-LA16	Inventec 6050A3219701	HP HSN-IX01	Delta (hp) TPN-DA12

### 1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 42, 43 (1920 x 1080 Resolution)
Below 1GHz RE	Mode 42, 43 (1920 x 1080 Resolution)
Above 1GHz RE	Mode 42, 43 (1920 x 1080 Resolution)

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## 1.5 Description of Support Units

Mode 42:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone	Lenovo	GS-4021M	57Y4488
HDD	WD	My Passport	WXE1E84CVPPA
HDD	WD	My Passport	WXA1AA4DRYDJ
Mouse	Logitech	M-U0026	N/A
Notebook PC (Remote)	Lenovo	TP00096C	SPP0R39691
Wireless AP (Remote)	ASUS	RT-AX88U	L41THP000064
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A
IC Card	N/A	N/A	N/A
SIM Card	VIBO	N/A	N/A

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Mode 43:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	DELL	P2418HT	CN-08P1KT-WS200-8AJ-EDTL-A08
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Earphone	Lenovo	GS-4021M	57Y4488
Earphone	Lenovo	GS-4021M	57Y4488
HDD	WD	My Passport	WXE1E84CVPPA
HDD	WD	My Passport	WXA1AA4DRYDJ
HDD	WD	My Passport	WXB1AA4EEJ9P
HDD	WD	My Passport	WXD1E849K9YF
HDD	WD	My Passport	WX21E54RD766
HDD	WD	My Passport	WX91A744F4NL
HDD	WD	My Passport	WX41A946S312
HDD	WD	My Passport	WX31A94JJZZX
Mouse	Logitech	M-U0026	N/A
Notebook PC (Remote)	Lenovo	TP00096C	SPP0R39691
Wireless AP (Remote)	ASUS	RT-AX88U	L41THP000064
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A
IC Card	N/A	N/A	N/A
SIM Card	VIBO	N/A	N/A
DOCK	HP	HSN-IX01	N/A

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### Support Equipment Used in Tested Cable

#### Mode 42:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
Type C Cable (2)	N/A	1.0m	Shielding
DC Power Port (3)	N/A	1.8m	Non-Shielding
Earphone Cable (4)	N/A	1.8m	Non-Shielding
Type C Cable (5)	N/A	1.2m	Shielding
USB HDD Cable (6)	N/A	0.6m	Shielding
USB Mouse Cable (7)	N/A	1.8m	Shielding

#### Mode 43:

Cable Type	Core	Length	Shielding/Non-shielding
HDMI Cable (1)	N/A	1.8m	Shielding
Type C Cable (2)	N/A	1.0m	Shielding
DC Power Port (3)	N/A	1.8m	Non-Shielding
Earphone Cable (4)*2	N/A	1.8m	Non-Shielding
Type C Cable (5)*4	N/A	1.2m	Shielding
USB HDD Cable (6)*4	N/A	0.6m	Shielding
USB Mouse Cable (7)	N/A	1.8m	Shielding
Display Cable (8)	N/A	1.8m	Shielding
VGA Cable (9)	2	1.8m	Shielding
LAN Cable (10)	N/A	10.0m	Non-Shielding

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## 1.6 Operation Procedure

### Mode 42:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through "WINEMC" test software.
3. The EUT execute the WINEMC software to send "H" Pattern to display on the screen.
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
6. Executed AMCAP2 software to turn-on the Camera.
7. The EUT will receive the GPS signal source and sustained action.
8. The EUT will receive the RF signal source and sustained action.
9. The EUT will receive the NFC RF signal source.
10. Setup the condition for test mode and begin the test.

### Mode 43:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through "WINEMC" test software.
3. The EUT execute the WINEMC software to send "H" Pattern to display on the screen.
4. The EUT communicates with Notebook PC by Bluetooth radio.
5. The EUT communicates with Wireless AP by WIFI radio.
6. Executed AMCAP2 software to turn-on the Camera.
7. The EUT will receive the GPS signal source and sustained action.
8. The EUT will receive the RF signal source and sustained action.
9. The EUT will receive the NFC RF signal source.
10. The EUT transfers data to another Notebook PC via LAN Port.
11. Setup the condition for test mode and begin the test.

## 1.7 Modification List

No modification was made by Compliance Certification Services Inc..

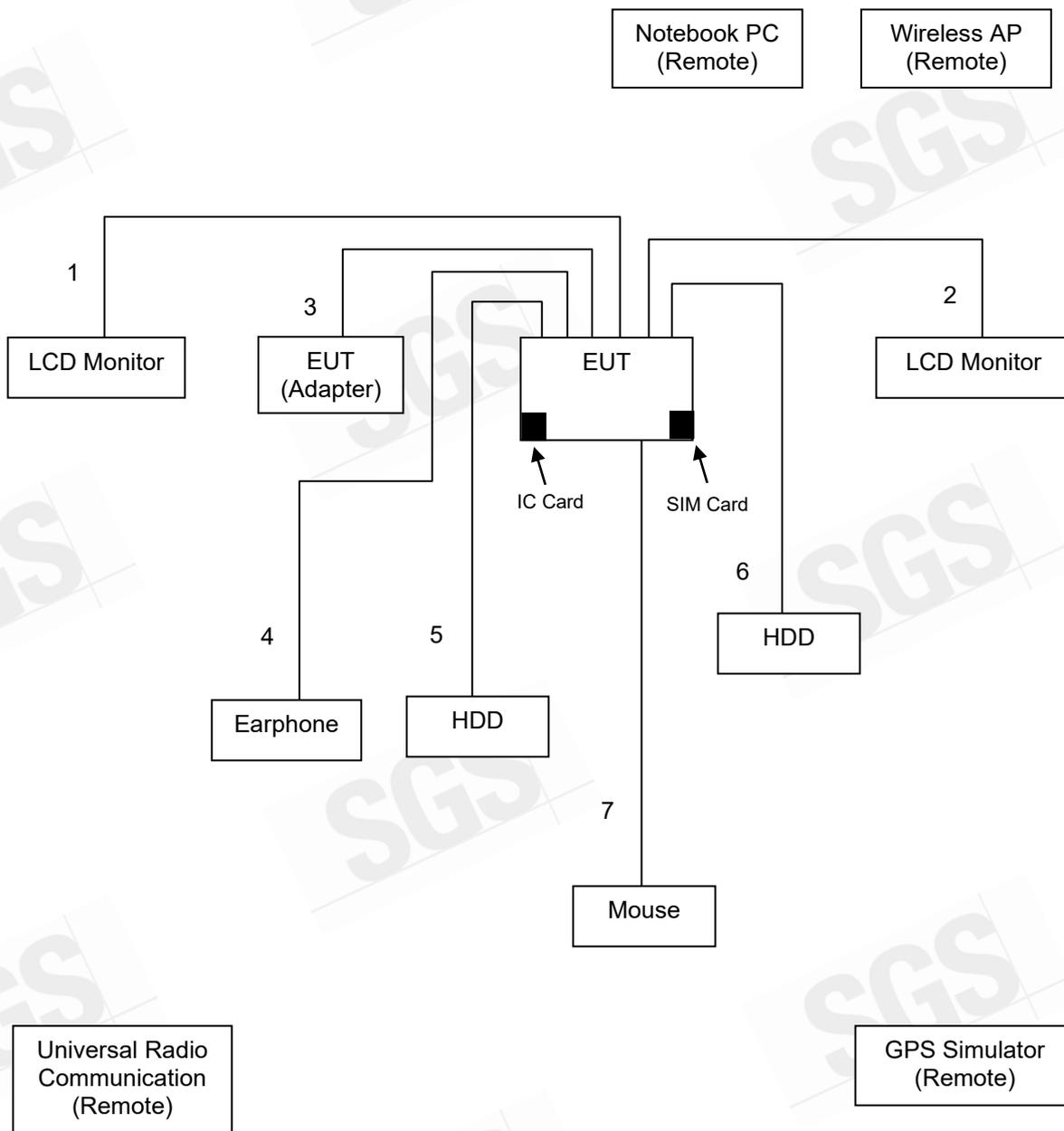
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## 1.8 Test Set-Up Configuration

Mode 42:

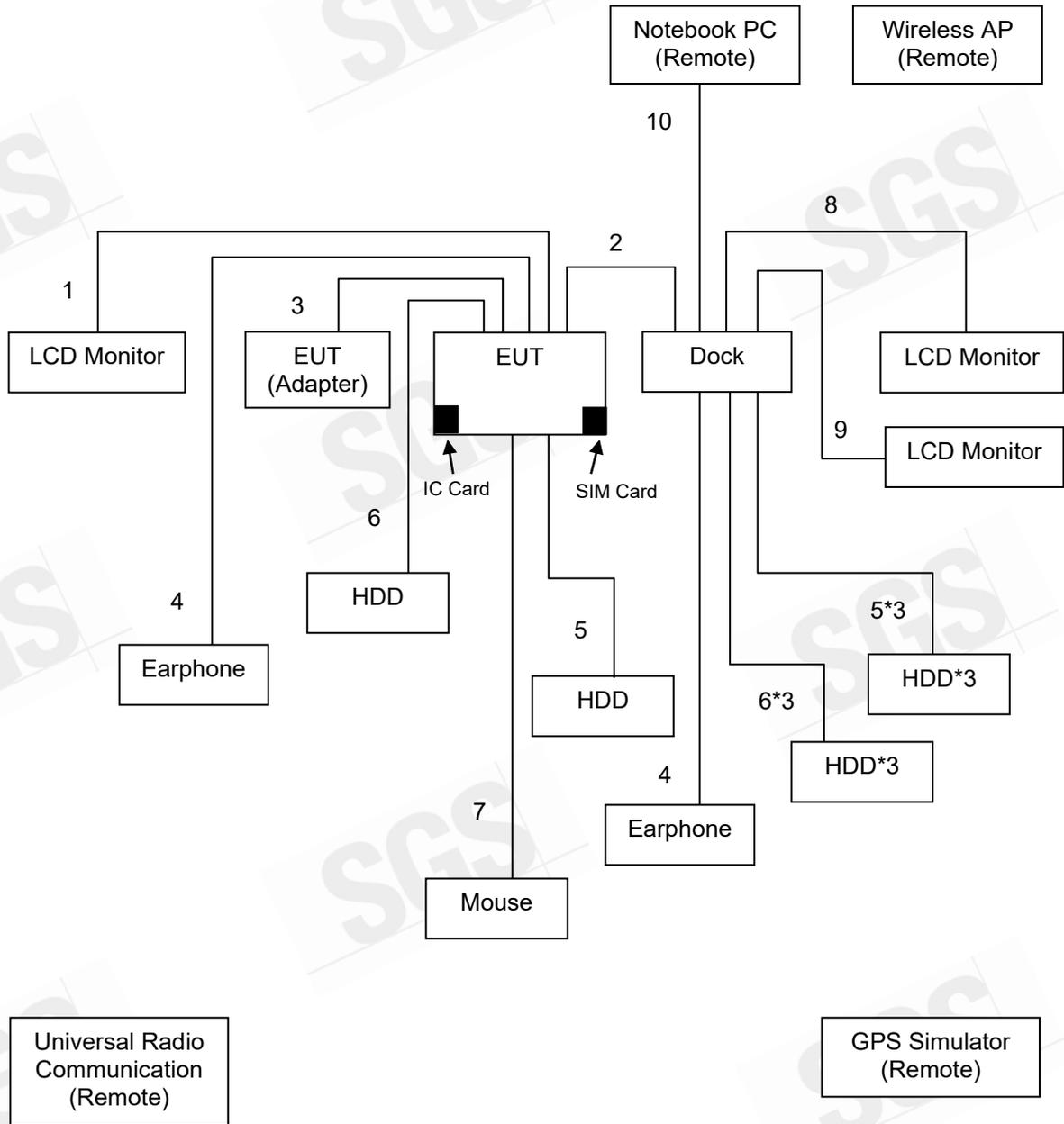


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Mode 43:



## 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	Conducted Emission	PASS
ISED ICES-003 Issue 6: 2016, Class B	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	<b>Pass</b>
Radiated Emission	<b>Pass</b>

### 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	46.4	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	69.5	49.5	74	54

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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	07/01/2020	06/30/2021
LISN	Schwarzbeck	NSLK8128	5012	04/14/2020	04/13/2021
LISN	R&S	ENV216	101054	04/26/2020	04/25/2021
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory) 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 3.14 dB Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB					

### 2.4.2 Measurement Level Calculation

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

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

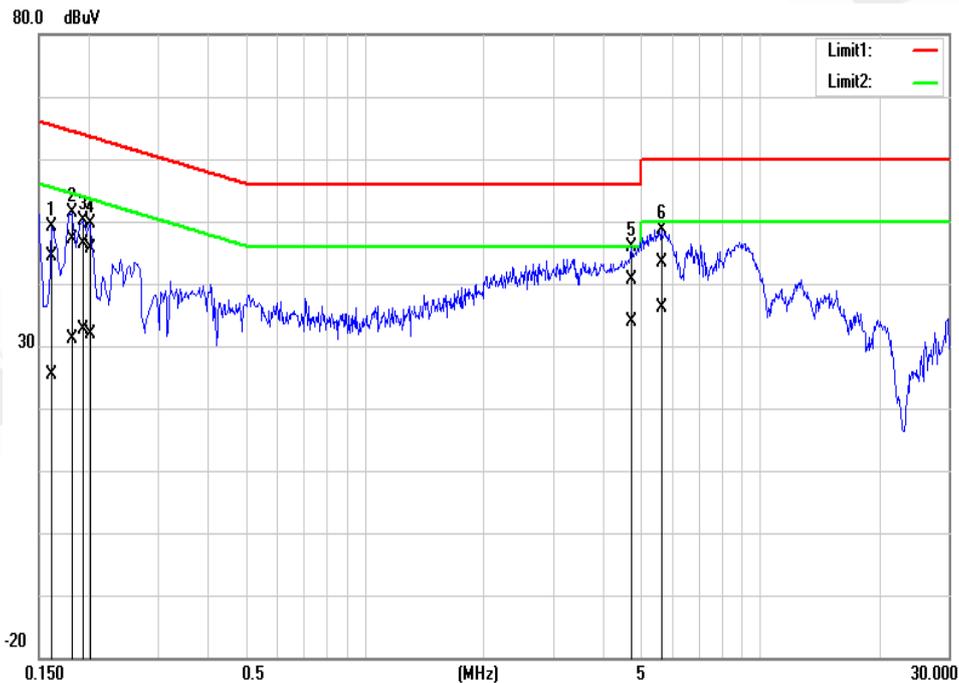
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### 2.4.3 Measurement Data:

Model no.	HSN-I42C	Line:	L1
Environmental Conditions	26°C, 46% RH	Tested Date	2020/09/09
Test Mode	Mode 42	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	0.1620	34.59	15.81	9.68	44.27	25.49	65.36	55.36	-21.09	-29.87	Pass
2	0.1819	37.53	21.53	9.68	47.21	31.21	64.39	54.40	-17.18	-23.19	Pass
3	0.1940	36.76	23.07	9.68	46.44	32.75	63.86	53.86	-17.42	-21.11	Pass
4	0.2020	35.94	22.21	9.68	45.62	31.89	63.52	53.53	-17.90	-21.64	Pass
5*	4.7220	30.84	24.01	9.78	40.62	33.79	56.00	46.00	-15.38	-12.21	Pass
6	5.6500	33.66	26.37	9.79	43.45	36.16	60.00	50.00	-16.55	-13.84	Pass

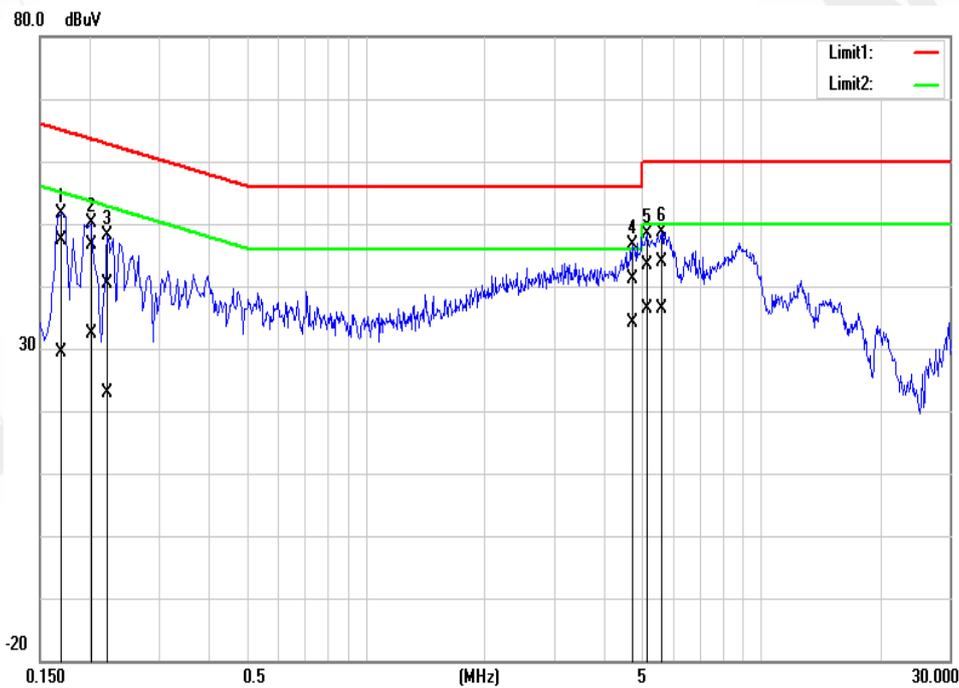
**Note:** L1 = Line One (Live Line)

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<b>Model no.</b>	HSN-I42C	<b>Line:</b>	N
<b>Environmental Conditions</b>	26°C, 46% RH	<b>Tested Date</b>	2020/09/09
<b>Test Mode</b>	Mode 42	<b>Tested By</b>	Thomas Liu
<b>6dB Bandwidth</b>	9 kHz	<b>Identifier number</b>	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	0.1700	37.72	19.74	9.74	47.46	29.48	64.96	54.96	-17.50	-25.48	Pass
2	0.2020	36.97	22.75	9.74	46.71	32.49	63.52	53.53	-16.81	-21.04	Pass
3	0.2220	30.52	13.19	9.74	40.26	22.93	62.74	52.74	-22.48	-29.81	Pass
4*	4.7220	31.19	24.28	9.85	41.04	34.13	56.00	46.00	-14.96	-11.87	Pass
5	5.1620	33.61	26.63	9.85	43.46	36.48	60.00	50.00	-16.54	-13.52	Pass
6	5.5939	33.97	26.55	9.86	43.83	36.41	60.00	50.00	-16.17	-13.59	Pass

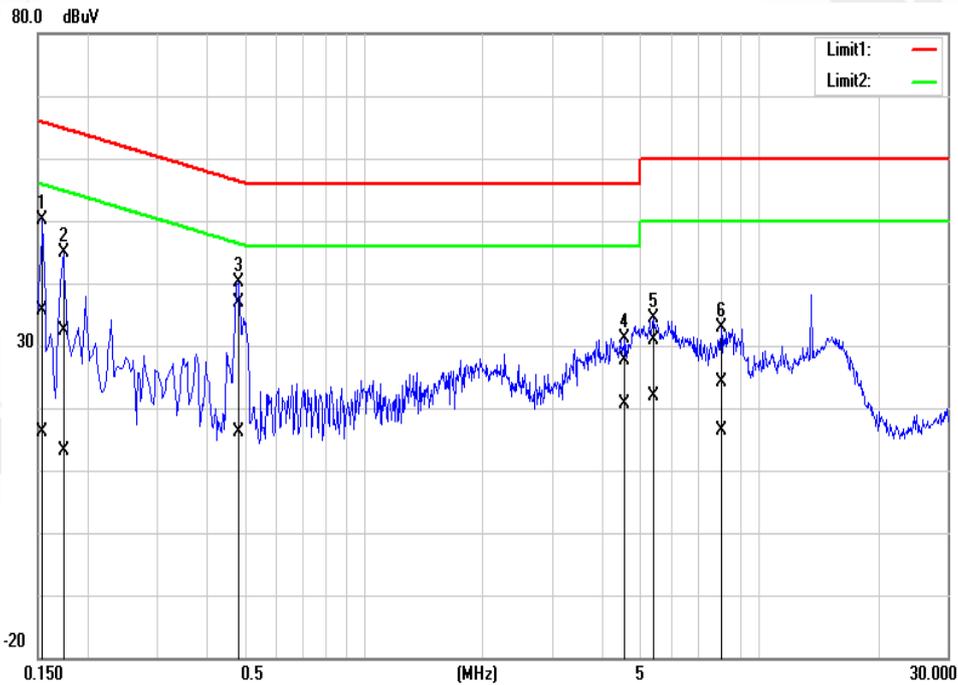
**Note:** N = Line Two (Neutral Line)

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<b>Model no.</b>	HSN-I42C	<b>Line:</b>	L1
<b>Environmental Conditions</b>	26°C, 46% RH	<b>Tested Date</b>	2020/09/09
<b>Test Mode</b>	Mode 43	<b>Tested By</b>	Thomas Liu
<b>6dB Bandwidth</b>	9 kHz	<b>Identifier number</b>	TCOP CE site 17



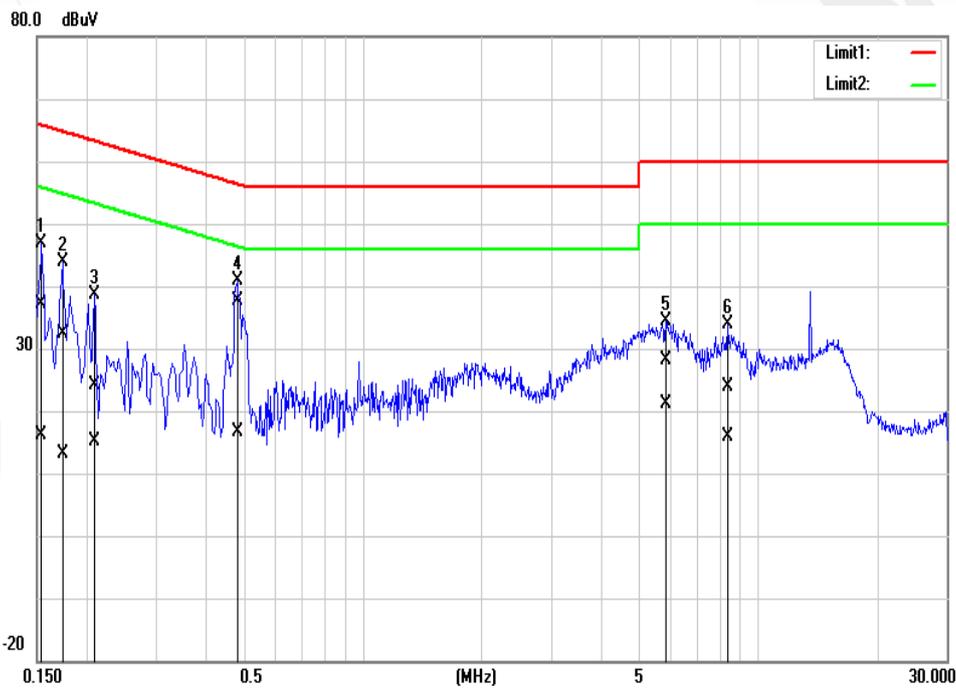
NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1539	26.06	6.40	9.68	35.74	16.08	65.78	55.79	-30.04	-39.71	Pass
2	0.1740	22.65	3.50	9.68	32.33	13.18	64.76	54.77	-32.43	-41.59	Pass
3*	0.4820	27.31	6.55	9.69	37.00	16.24	56.30	46.30	-19.30	-30.06	Pass
4	4.5939	17.93	10.92	9.77	27.70	20.69	56.00	46.00	-28.30	-25.31	Pass
5	5.4460	21.01	12.01	9.79	30.80	21.80	60.00	50.00	-29.20	-28.20	Pass
6	8.0340	14.23	6.48	9.83	24.06	16.31	60.00	50.00	-35.94	-33.69	Pass

**Note:** L1 = Line One (Live Line)

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<b>Model no.</b>	HSN-I42C	<b>Line:</b>	N
<b>Environmental Conditions</b>	26°C, 46% RH	<b>Tested Date</b>	2020/09/09
<b>Test Mode</b>	Mode 43	<b>Tested By</b>	Thomas Liu
<b>6dB Bandwidth</b>	9 kHz	<b>Identifier number</b>	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	0.1539	27.45	6.33	9.74	37.19	16.07	65.78	55.79	-28.59	-39.72	Pass
2	0.1740	22.72	3.34	9.74	32.46	13.08	64.76	54.77	-32.30	-41.69	Pass
3	0.2100	14.28	5.37	9.74	24.02	15.11	63.20	53.21	-39.18	-38.10	Pass
4*	0.4820	27.79	6.86	9.75	37.54	16.61	56.30	46.30	-18.76	-29.69	Pass
5	5.8420	18.35	11.20	9.87	28.22	21.07	60.00	50.00	-31.78	-28.93	Pass
6	8.3860	13.92	5.90	9.91	23.83	15.81	60.00	50.00	-36.17	-34.19	Pass

**Note:** N = 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	02/20/2020	02/19/2021
Bilog Antenna	TESEQ	CBL 6112D	31675	03/09/2020	03/08/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/29/2020	04/28/2021
EMI Test Receiver	R&S	ESCI	100961	06/08/2020	06/07/2021
EMI Test Receiver	R&S	ESCI	100962	06/12/2020	06/11/2021
Pre-Amplifier	HP	8447D	2944A07754	04/29/2020	04/28/2021
Pre-Amplifier	HP	8447D	2944A08150	04/29/2020	04/28/2021
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, Taiwan (R.O.C.) Measurement Uncertainty of Radiated Emission Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz) Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz) Theory values uncertainty U <sub>cispr 16-4-2:2011+A1:2014</sub> (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	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/29/2020	04/28/2021
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020
Horn Antenna	EMCO	3117	00055167	12/12/2019	12/11/2020
Pre-Amplifier	EMCI	EMC051845	980040	04/29/2020	04/28/2021
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) 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 4.89 dB. (1-6GHz) Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 5.27 dB. (6-18GHz) Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.13 dB. (18-26GHz) Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.28 dB. (26-40GHz) Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of irradiated emission measurement is 5.18 dB.(1-6GHz) Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of irradiated emission measurement is 5.48 dB.(6-18GHz) Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of irradiated emission measurement is ---- dB.(18-26GHz) Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of irradiated emission measurement is ---- dB.(26-40GHz)					

**2.5.2 Measurement Level Calculation**

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

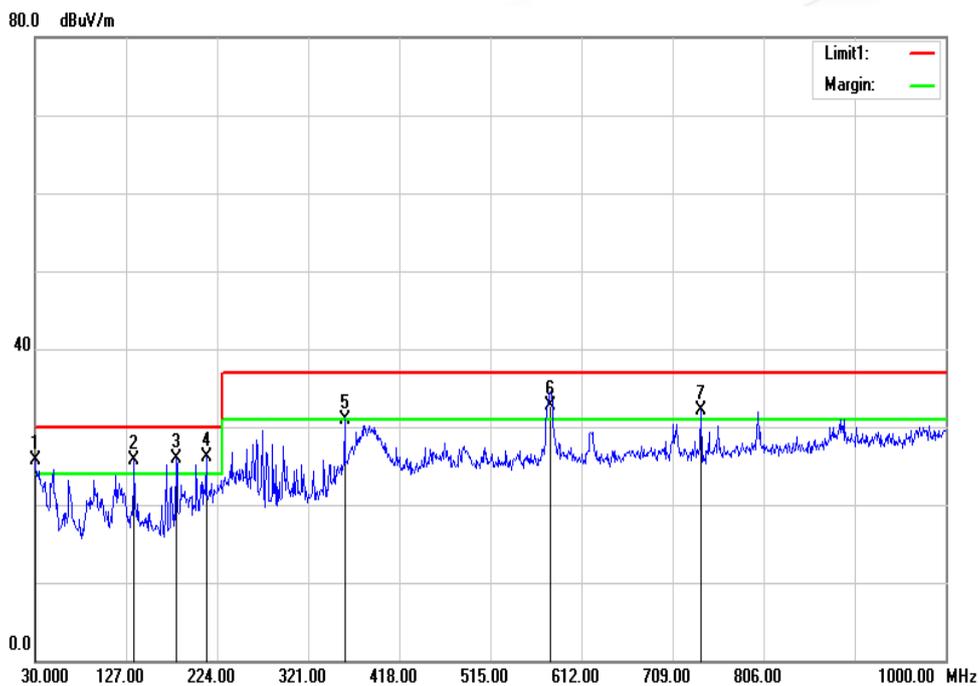
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### 2.5.3 Measurement Data

#### Below 1GHz

Model no.	HSN-I42C	Test Mode	Mode 42
Environmental Conditions	23°C, 52% RH	Tested Date	2020/09/10
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	28.09	-2.37	25.72	30.00	-4.28	100	359	QP
2	135.7300	33.92	-8.28	25.64	30.00	-4.36	199	264	QP
3	180.3500	35.81	-9.82	25.99	30.00	-4.01	100	166	QP
4	212.3600	35.27	-9.09	26.18	30.00	-3.82	100	197	QP
5	359.8000	33.56	-2.67	30.89	37.00	-6.11	100	324	QP
6	579.0200	31.47	1.14	32.61	37.00	-4.39	299	355	QP
7	739.0700	29.23	2.92	32.15	37.00	-4.85	299	285	QP

#### REMARKS:

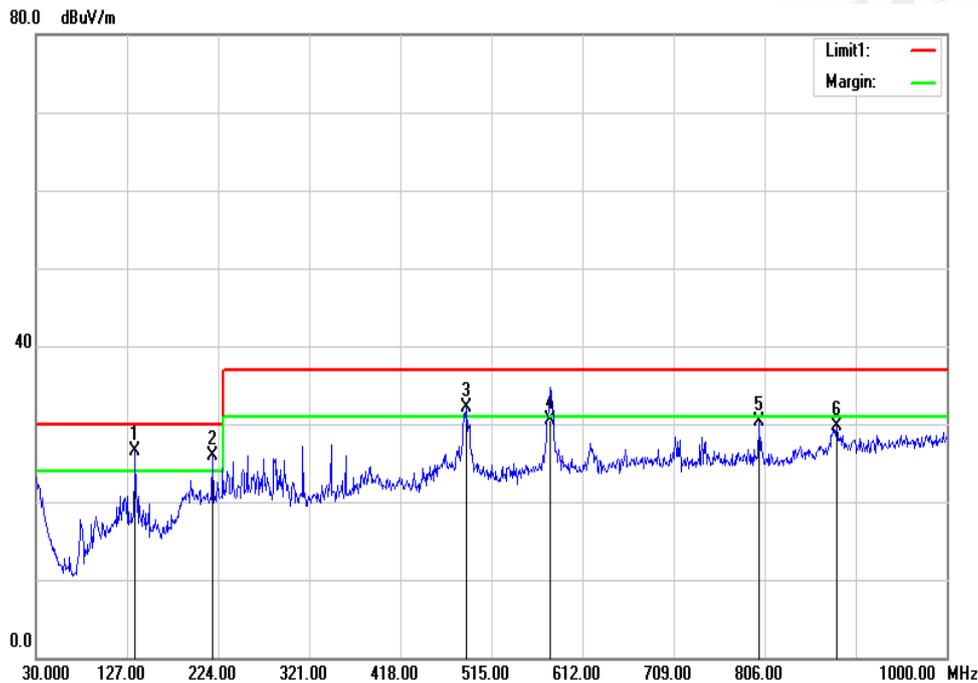
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 42
<b>Environmental Conditions</b>	23°C, 52% RH	<b>Tested Date</b>	2020/09/10
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Rex Kuo
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	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	135.7300	35.48	-9.02	26.46	30.00	-3.54	300	272	QP
2	218.1800	36.22	-10.24	25.98	30.00	-4.02	400	50	QP
3	488.8100	34.18	-2.15	32.03	37.00	-4.97	100	0	QP
4	578.0500	31.35	-0.77	30.58	37.00	-6.42	100	12	QP
5	800.1800	28.72	1.66	30.38	37.00	-6.62	100	7	QP
6	882.6300	26.73	3.01	29.74	37.00	-7.26	205	360	QP

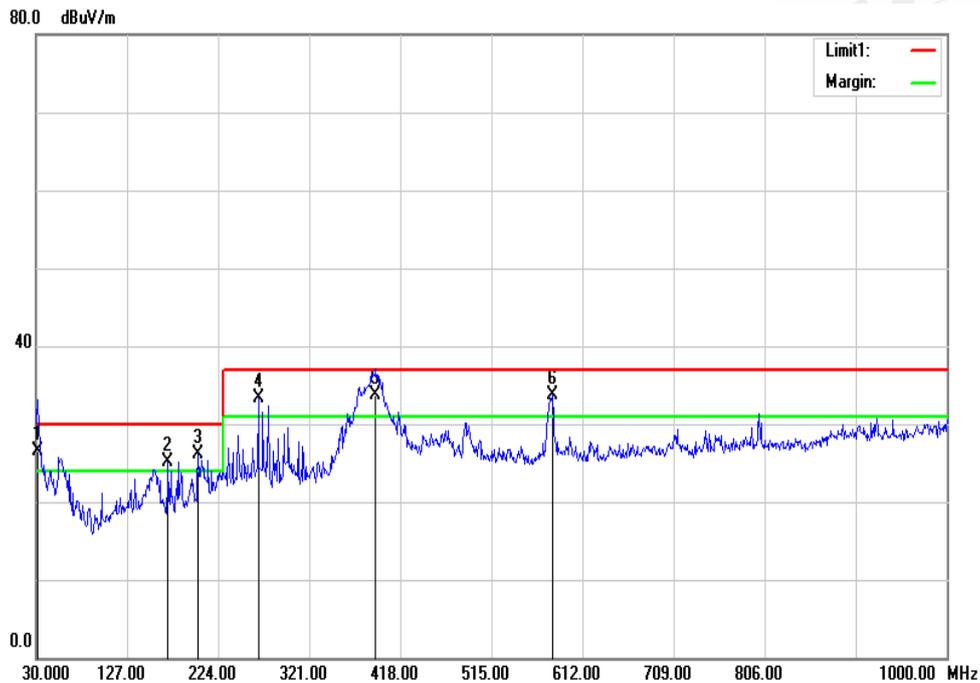
**REMARKS:**

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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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 43
<b>Environmental Conditions</b>	24°C, 50% RH	<b>Tested Date</b>	2020/09/11
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Rex Kuo
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	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	31.9400	29.73	-3.31	26.42	30.00	-3.58	100	153	QP
2	170.6500	34.69	-9.52	25.17	30.00	-4.83	100	284	QP
3	202.6600	35.16	-9.10	26.06	30.00	-3.94	100	0	QP
4	266.6800	37.64	-4.38	33.26	37.00	-3.74	100	153	QP
5	391.8100	35.66	-1.95	33.71	37.00	-3.29	399	323	QP
6	579.9900	32.58	1.15	33.73	37.00	-3.27	299	3	QP

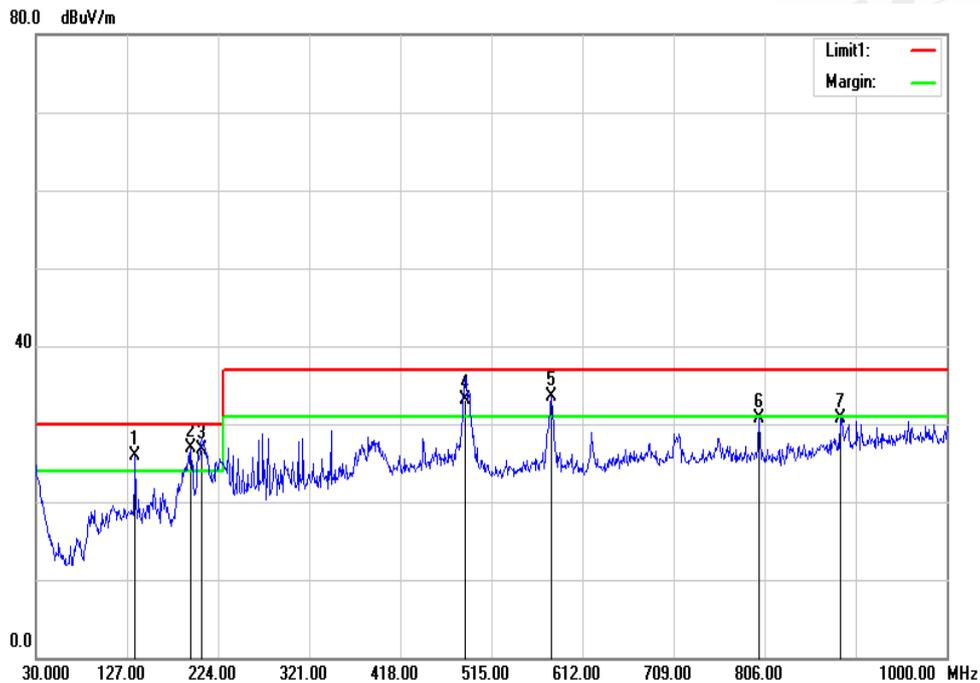
**REMARKS:**

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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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 43
<b>Environmental Conditions</b>	24°C, 50% RH	<b>Tested Date</b>	2020/09/11
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function</b>	Quasi-peak.	<b>Tested By</b>	Rex Kuo
<b>6dB Bandwidth</b>	120 kHz	<b>Identifier number</b>	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	135.7300	34.93	-9.02	25.91	30.00	-4.09	300	112	QP
2	194.9000	37.49	-10.68	26.81	30.00	-3.19	400	192	QP
3	206.5400	36.98	-10.37	26.61	30.00	-3.39	400	192	QP
4	486.8700	35.36	-2.17	33.19	37.00	-3.81	130	0	QP
5	579.0200	34.31	-0.78	33.53	37.00	-3.47	399	0	QP
6	800.1800	29.00	1.66	30.66	37.00	-6.34	100	0	QP
7	886.5100	27.72	3.08	30.80	37.00	-6.20	400	202	QP

**REMARKS:**

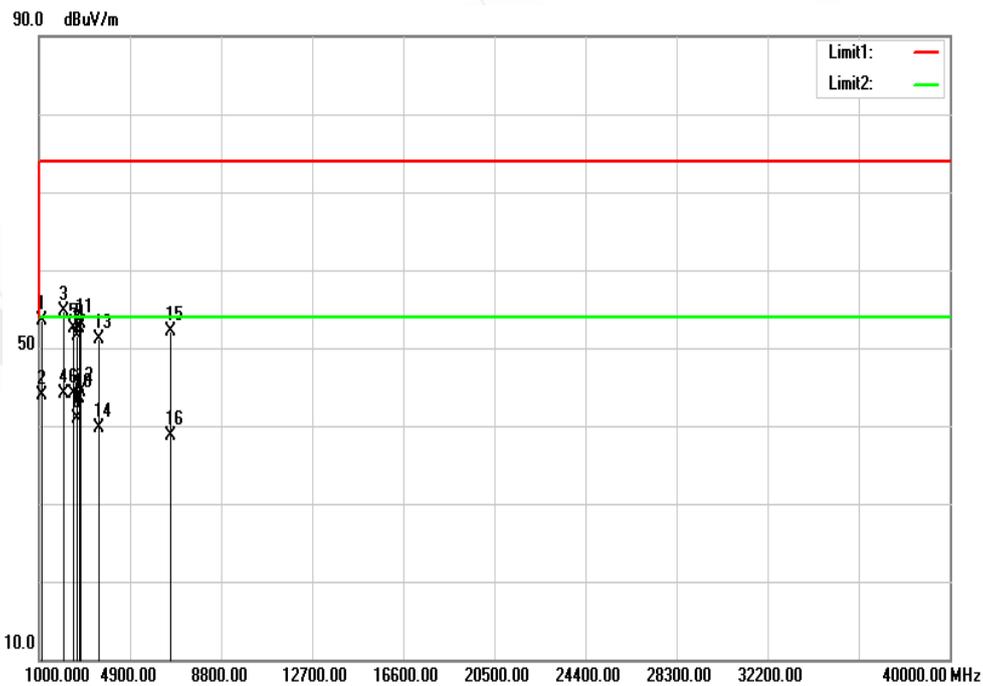
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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### Above 1GHz

<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 42
<b>Environmental Conditions</b>	23°C, 52% RH	<b>Tested Date</b>	2020/09/10
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	3m
<b>Highest frequency generated or used</b>	3.0GHz	<b>Upper frequency</b>	15GHz
<b>Detector Function</b>	Peak & Average.	<b>Tested By</b>	Rex Kuo
<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	1110.500	72.89	-19.48	53.41	74.00	-20.59	100	257	peak
2	1110.500	63.46	-19.48	43.98	54.00	-10.02	100	257	AVG
3	2045.500	69.51	-14.88	54.63	74.00	-19.37	300	230	peak
4	2045.500	59.08	-14.88	44.20	54.00	-9.80	300	230	AVG
5	2445.000	66.70	-14.22	52.48	74.00	-21.52	200	229	peak
6	2445.000	58.41	-14.22	44.19	54.00	-9.81	200	229	AVG
7	2623.500	65.42	-13.84	51.58	74.00	-22.42	200	249	peak
8	2623.500	54.74	-13.84	40.90	54.00	-13.10	200	249	AVG
9	2717.000	65.97	-13.47	52.50	74.00	-21.50	200	249	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	2717.000	56.95	-13.47	43.48	54.00	-10.52	200	249	AVG
11	2759.500	66.40	-13.30	53.10	74.00	-20.90	200	249	peak
12	2759.500	57.52	-13.30	44.22	54.00	-9.78	200	249	AVG
13	3558.500	62.66	-11.52	51.14	74.00	-22.86	200	249	peak
14	3558.500	51.13	-11.52	39.61	54.00	-14.39	200	249	AVG
15	6584.500	56.41	-4.26	52.15	74.00	-21.85	100	158	peak
16	6584.500	43.05	-4.26	38.79	54.00	-15.21	100	158	AVG

**REMARKS:**

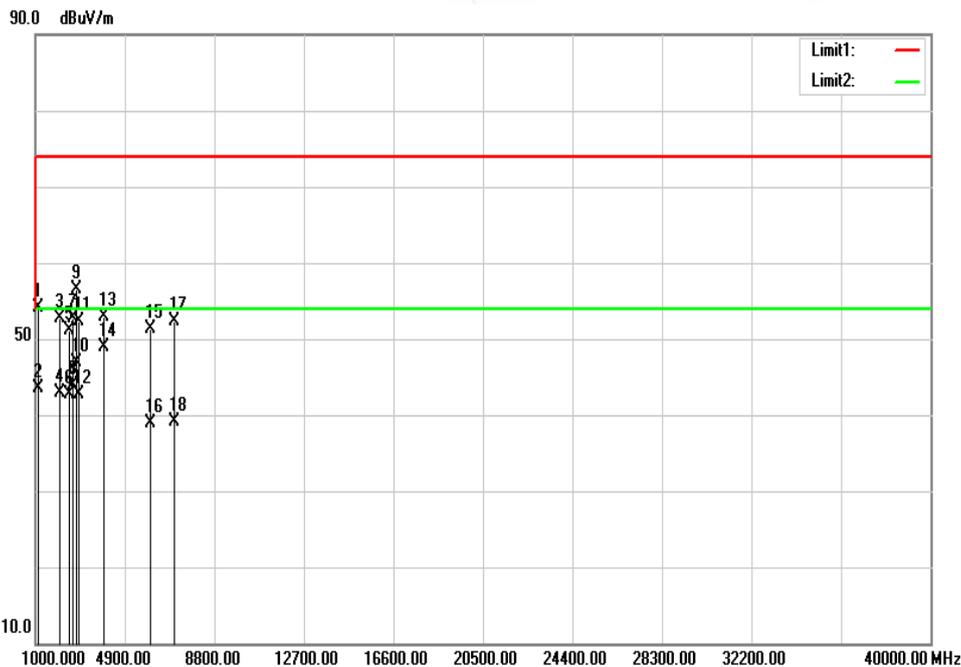
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 42
<b>Environmental Conditions</b>	23°C, 52% RH	<b>Tested Date</b>	2020/09/10
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	3m
<b>Highest frequency generated or used</b>	3.0GHz	<b>Upper frequency</b>	15GHz
<b>Detector Function</b>	Peak & Average.	<b>Tested By</b>	Rex Kuo
<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	1110.500	73.64	-19.48	54.16	74.00	-19.84	200	215	peak
2	1110.500	63.05	-19.48	43.57	54.00	-10.43	200	215	AVG
3	2045.500	67.62	-14.88	52.74	74.00	-21.26	200	188	peak
4	2045.500	57.86	-14.88	42.98	54.00	-11.02	200	188	AVG
5	2445.000	65.35	-14.22	51.13	74.00	-22.87	100	204	peak
6	2445.000	56.84	-14.22	42.62	54.00	-11.38	100	204	AVG
7	2623.500	66.58	-13.84	52.74	74.00	-21.26	100	303	peak
8	2623.500	57.73	-13.84	43.89	54.00	-10.11	100	303	AVG
9	2759.500	69.76	-13.30	56.46	74.00	-17.54	200	188	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
10	2759.500	60.28	-13.30	46.98	54.00	-7.02	200	188	AVG
11	2844.500	65.34	-13.01	52.33	74.00	-21.67	300	197	peak
12	2844.500	55.74	-13.01	42.73	54.00	-11.27	300	197	AVG
13	4000.500	64.18	-11.24	52.94	74.00	-21.06	100	184	peak
14	4000.500	60.15	-11.24	48.91	54.00	-5.09	100	184	AVG
15	5998.000	56.50	-5.12	51.38	74.00	-22.62	202	0	peak
16	5998.000	43.98	-5.12	38.86	54.00	-15.14	202	0	AVG
17	7026.500	55.73	-3.49	52.24	74.00	-21.76	215	0	peak
18	7026.500	42.54	-3.49	39.05	54.00	-14.95	215	0	AVG

**REMARKS:**

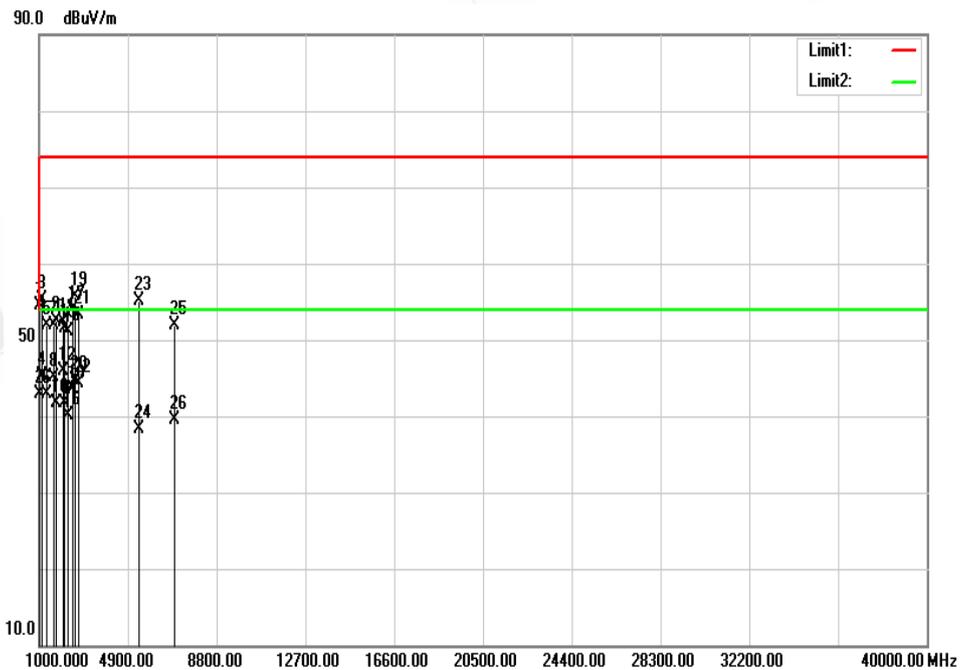
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 43
<b>Environmental Conditions</b>	24°C, 50% RH	<b>Tested Date</b>	2020/09/11
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	3m
<b>Highest frequency generated or used</b>	3.0GHz	<b>Upper frequency</b>	15GHz
<b>Detector Function</b>	Peak & Average.	<b>Tested By</b>	Rex Kuo
<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	1025.500	74.40	-19.97	54.43	74.00	-19.57	100	209	peak
2	1025.500	62.97	-19.97	43.00	54.00	-11.00	100	209	AVG
3	1110.500	74.72	-19.48	55.24	74.00	-18.76	200	269	peak
4	1110.500	64.69	-19.48	45.21	54.00	-8.79	200	269	AVG
5	1314.500	70.53	-18.69	51.84	74.00	-22.16	100	156	peak
6	1314.500	61.65	-18.69	42.96	54.00	-11.04	100	156	AVG
7	1603.500	70.45	-18.63	51.82	74.00	-22.18	100	242	peak
8	1603.500	63.74	-18.63	45.11	54.00	-8.89	100	242	AVG
9	1722.500	70.01	-17.58	52.43	74.00	-21.57	200	190	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	1722.500	59.32	-17.58	41.74	54.00	-12.26	200	190	AVG
11	2045.500	67.28	-14.88	52.40	74.00	-21.60	200	269	peak
12	2045.500	60.69	-14.88	45.81	54.00	-8.19	200	269	AVG
13	2088.000	66.21	-14.76	51.45	74.00	-22.55	100	202	peak
14	2088.000	56.39	-14.76	41.63	54.00	-12.37	100	202	AVG
15	2215.500	65.51	-14.44	51.07	74.00	-22.93	100	176	peak
16	2215.500	54.59	-14.44	40.15	54.00	-13.85	100	176	AVG
17	2445.000	68.05	-14.22	53.83	74.00	-20.17	100	229	peak
18	2445.000	57.71	-14.22	43.49	54.00	-10.51	100	229	AVG
19	2555.500	69.64	-14.01	55.63	74.00	-18.37	134	0	peak
20	2555.500	58.62	-14.01	44.61	54.00	-9.39	134	0	AVG
21	2708.500	66.89	-13.50	53.39	74.00	-20.61	100	268	peak
22	2708.500	57.80	-13.50	44.30	54.00	-9.70	100	268	AVG
23	5386.000	62.60	-7.53	55.07	74.00	-18.93	100	255	peak
24	5386.000	45.82	-7.53	38.29	54.00	-15.71	100	255	AVG
25	6899.000	55.64	-3.74	51.90	74.00	-22.10	300	321	peak
26	6899.000	43.21	-3.74	39.47	54.00	-14.53	300	321	AVG

**REMARKS:**

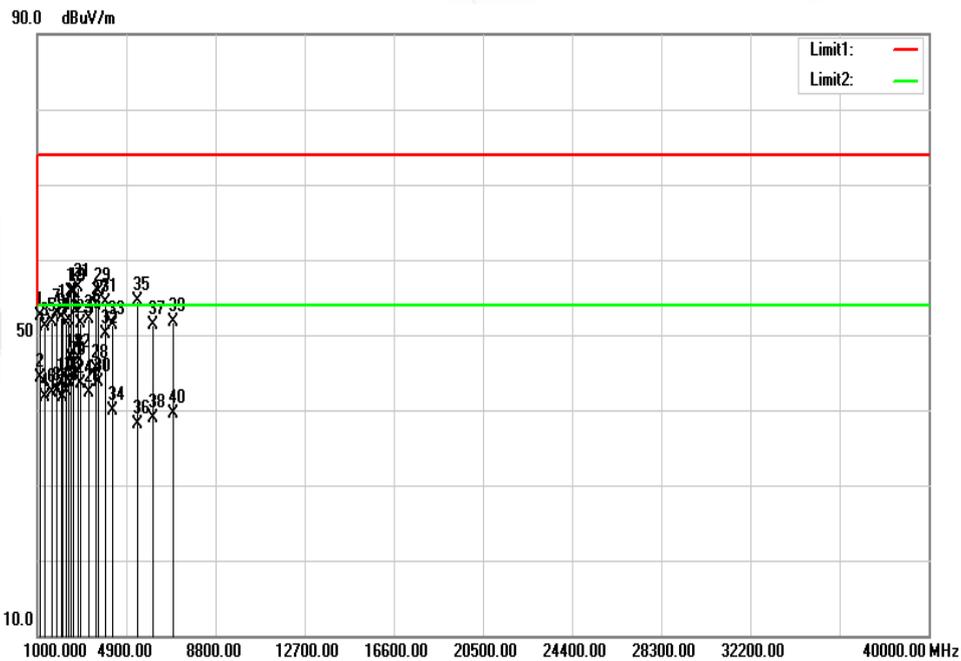
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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<b>Model no.</b>	HSN-I42C	<b>Test Mode</b>	Mode 43
<b>Environmental Conditions</b>	24°C, 50% RH	<b>Tested Date</b>	2020/09/11
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	3m
<b>Highest frequency generated or used</b>	3.0GHz	<b>Upper frequency</b>	15GHz
<b>Detector Function</b>	Peak & Average.	<b>Tested By</b>	Rex Kuo
<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	1110.500	72.04	-19.48	52.56	74.00	-21.44	200	281	peak
2	1110.500	63.79	-19.48	44.31	54.00	-9.69	200	281	AVG
3	1323.000	69.69	-18.68	51.01	74.00	-22.99	200	182	peak
4	1323.000	60.35	-18.68	41.67	54.00	-12.33	200	182	AVG
5	1603.500	70.40	-18.63	51.77	74.00	-22.23	200	195	peak
6	1603.500	61.02	-18.63	42.39	54.00	-11.61	200	195	AVG
7	1841.500	69.31	-16.50	52.81	74.00	-21.19	200	182	peak
8	1841.500	58.92	-16.50	42.42	54.00	-11.58	200	182	AVG
9	2045.500	67.09	-14.88	52.21	74.00	-21.79	200	195	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	2045.500	58.68	-14.88	43.80	54.00	-10.20	200	195	AVG
11	2088.000	68.19	-14.76	53.43	74.00	-20.57	200	175	peak
12	2088.000	56.45	-14.76	41.69	54.00	-12.31	200	175	AVG
13	2232.500	66.00	-14.43	51.57	74.00	-22.43	100	185	peak
14	2232.500	56.90	-14.43	42.47	54.00	-11.53	100	185	AVG
15	2351.500	66.16	-14.34	51.82	74.00	-22.18	100	191	peak
16	2351.500	58.25	-14.34	43.91	54.00	-10.09	100	191	AVG
17	2445.000	69.89	-14.22	55.67	74.00	-18.33	200	195	peak
18	2445.000	61.15	-14.22	46.93	54.00	-7.07	200	195	AVG
19	2572.500	69.72	-13.98	55.74	74.00	-18.26	200	169	peak
20	2572.500	59.87	-13.98	45.89	54.00	-8.11	200	169	AVG
21	2759.500	69.66	-13.30	56.36	74.00	-17.64	200	182	peak
22	2759.500	60.18	-13.30	46.88	54.00	-7.12	200	182	AVG
23	2844.500	64.50	-13.01	51.49	74.00	-22.51	300	190	peak
24	2844.500	56.47	-13.01	43.46	54.00	-10.54	300	190	AVG
25	3235.500	64.33	-12.14	52.19	74.00	-21.81	200	175	peak
26	3235.500	54.51	-12.14	42.37	54.00	-11.63	200	175	AVG
27	3558.500	65.40	-11.52	53.88	74.00	-20.12	200	175	peak
28	3558.500	57.12	-11.52	45.60	54.00	-8.40	200	175	AVG
29	3643.500	66.97	-11.26	55.71	74.00	-18.29	200	175	peak
30	3643.500	54.92	-11.26	43.66	54.00	-10.34	200	175	AVG
31	4000.500	65.54	-11.24	54.30	74.00	-19.70	100	178	peak
32	4000.500	61.40	-11.24	50.16	54.00	-3.84	100	178	AVG
33	4306.500	61.08	-9.81	51.27	74.00	-22.73	200	182	peak
34	4306.500	49.75	-9.81	39.94	54.00	-14.06	200	182	AVG
35	5386.000	62.11	-7.53	54.58	74.00	-19.42	100	205	peak
36	5386.000	45.72	-7.53	38.19	54.00	-15.81	100	205	AVG
37	6040.500	56.42	-5.02	51.40	74.00	-22.60	200	360	peak
38	6040.500	43.99	-5.02	38.97	54.00	-15.03	200	360	AVG
39	6899.000	55.46	-3.74	51.72	74.00	-22.28	100	218	peak
40	6899.000	43.22	-3.74	39.48	54.00	-14.52	100	218	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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### 3. Photographs of Test

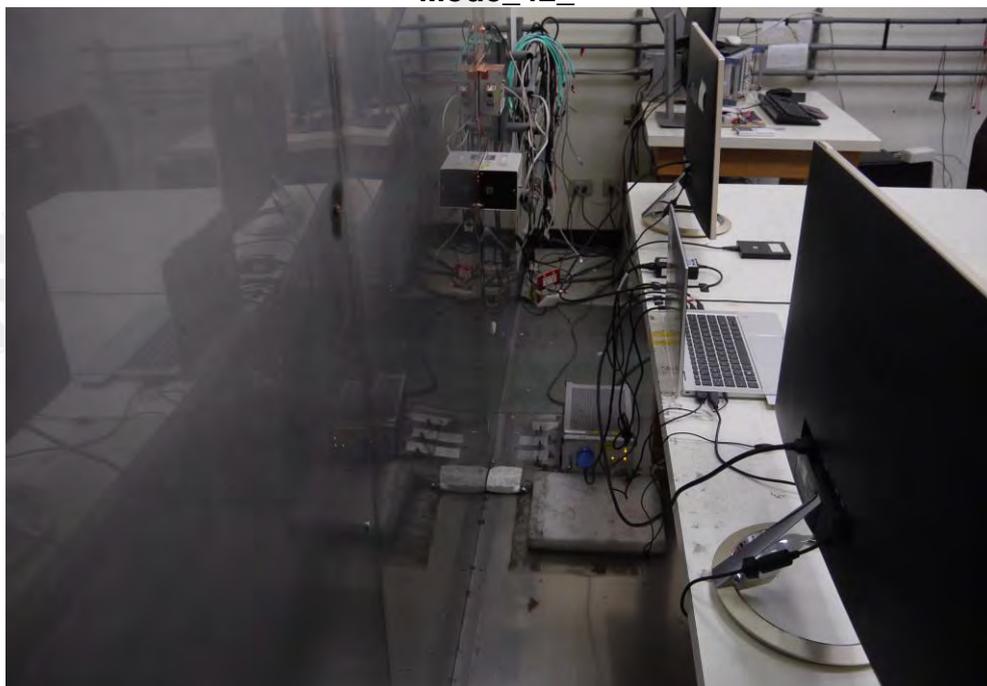
#### CE Testing Set-up

Model No.: HSN-I42C

Mode\_42\_+



Mode\_42\_-



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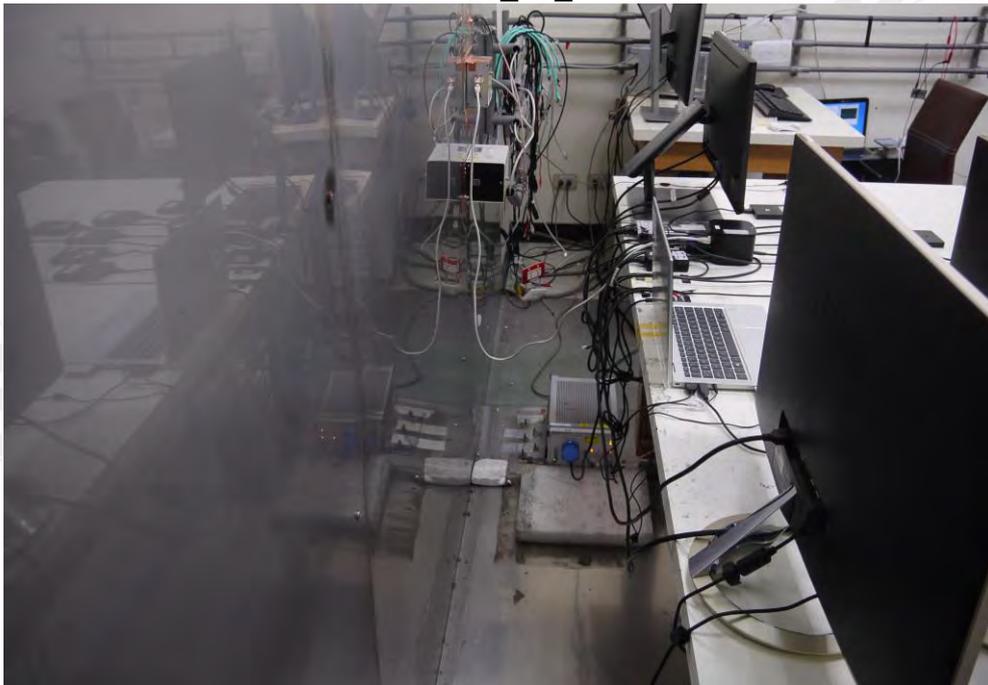
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**Model No.: HSN-I42C**

**Mode\_43\_+**



**Mode\_43\_-**



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

**Model No.: HSN-I42C  
Mode\_42\_+**



**Mode\_42\_-**



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**Model No.: HSN-I42C**

**Mode\_43\_+**



**Mode\_43\_-**



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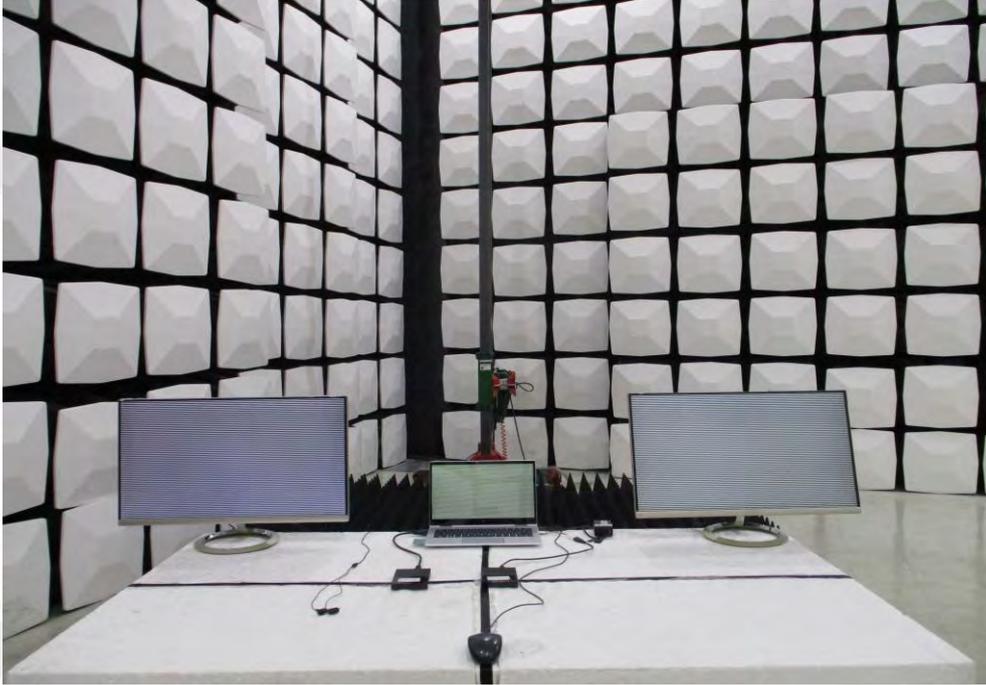
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Above 1GHz

Model No.: HSN-I42C

Mode\_42\_+



Mode\_42\_-



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**Model No.: HSN-I42C**

**Mode\_43\_+**



**Mode\_43\_-**



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# 4. Photographs of Product

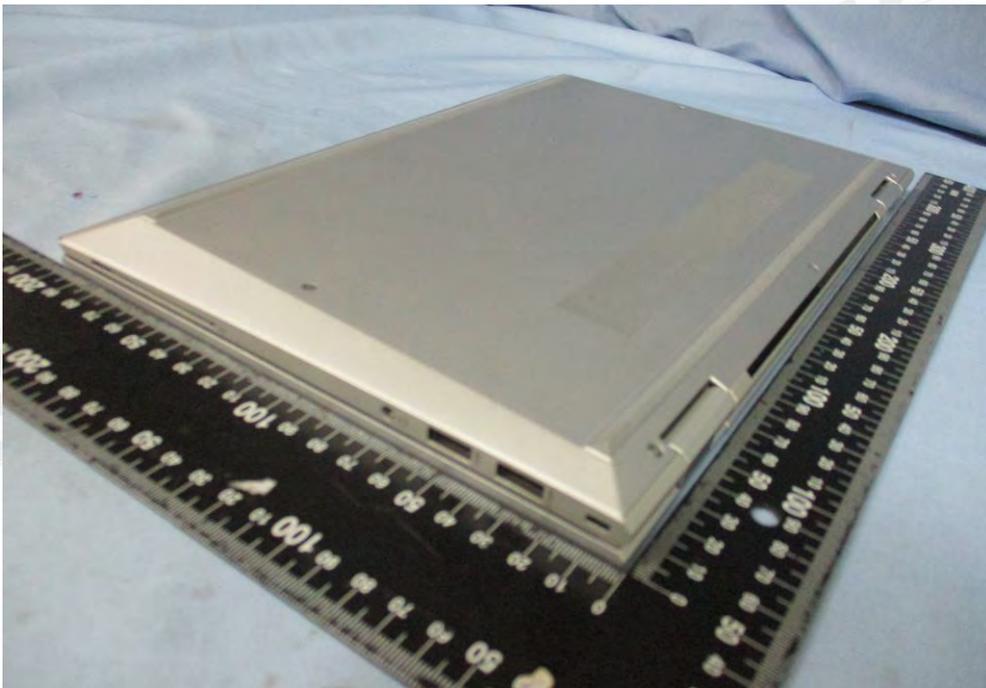
Exterior

Model No.: HSN-I42C



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## Adapter Model No.: TPN-CA10



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## Adapter Model No.: TPN-CA14



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## Adapter Model No.: TPN-AA06



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## Adapter Model No.: TPN-LA12



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## Adapter Model No.: TPN-LA15



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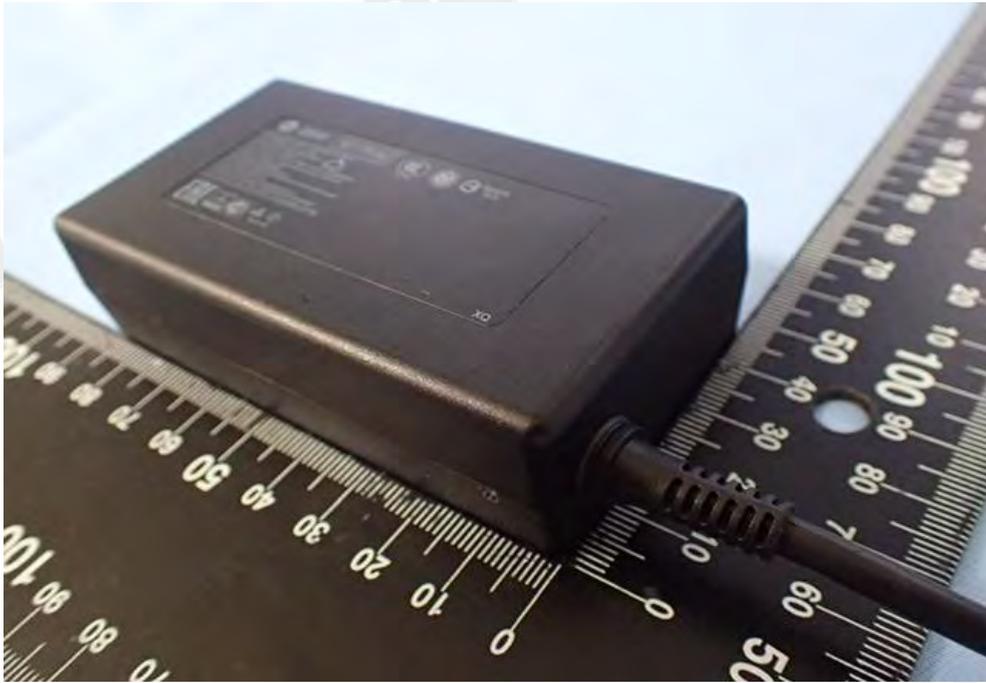


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## Adapter Model No.: TPN-LA16



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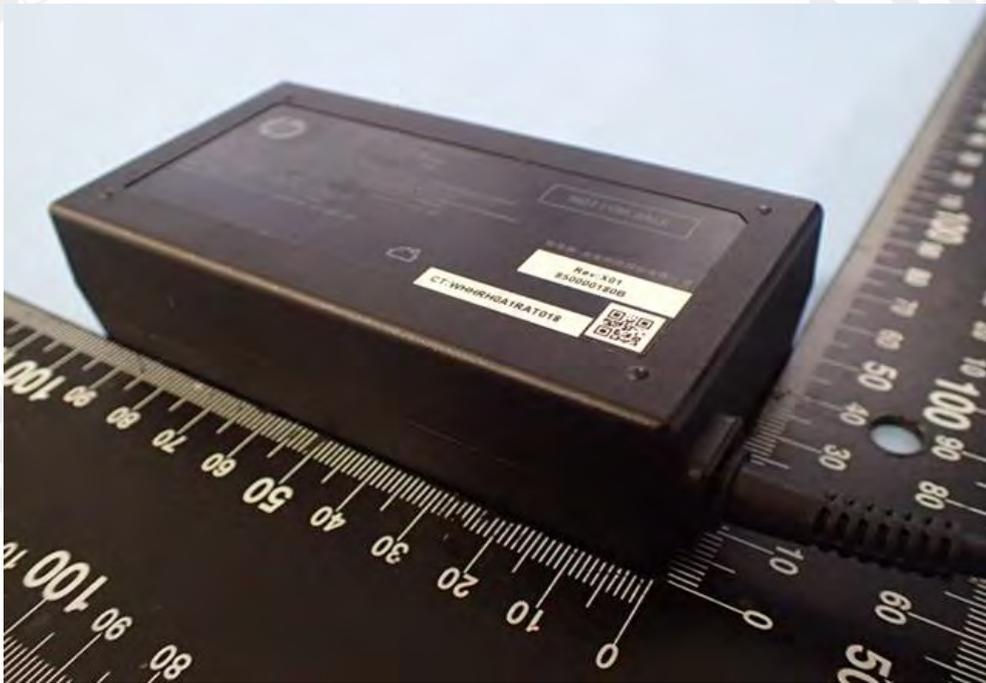
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## Adapter Model No.: TPN-LA17



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**Adapter Model No.: TPN-DA16**



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## Adapter Model No.: TPN-DA17



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## Adapter Model No.: TPN-DA20



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## Adapter Model No.: TPN-DA22



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## Adapter Model No.: TPN-TA02



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

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