

FCC Test Report

(PART 27)

Report No.: RF190326C28-3

FCC ID: B94HNC04PD

Test Model: HSN-C04C

Received Date: Mar. 26, 2019

Test Date: Apr. 22, 2019 ~ Apr. 26, 2019

Issued Date: May 07, 2019

Applicant: HP Inc.

Address: 3390 East Harmony Road, Fort Collins Colorado, 80528 United States

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C)

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City
33383, Taiwan (R.O.C)

FCC Registration /
Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF190326C28-3	Original Release	May 07, 2019

1 Certificate of Conformity

Product: Tablet

Brand: HP

Test Model: HSN-C04C

Sample Status: Engineering Sample

Applicant: HP Inc.

Test Date: Apr. 22, 2019 ~ Apr. 26, 2019

Standards: FCC Part 27, Subpart C, D

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Rona Chen, **Date:** May 07, 2019
Rona Chen / Specialist

Approved by : Dylan Chiou, **Date:** May 07, 2019
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(a)(3)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049 27.53(a)(5)	Occupied Bandwidth	N/A	Refer to Note
2.1051 27.53(a)(4)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(a)(4)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(a)(4)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.92 dB at 6930.00 MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RF170106C02-3 for module (Brand: Fibocom, Model: L850-GL)
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2019	Mar. 17, 2020
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 13, 2018	Dec. 12, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	100115	Jan. 21, 2019	Jan. 20, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 11, 2018	Oct. 10, 2019
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Nov. 25, 2018	Nov. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 23, 2018	Nov. 22, 2019
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 25, 2018	Nov. 24, 2019
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Nov. 23, 2018	Nov. 22, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 19, 2018	Nov. 18, 2019
Preamplifier EMCI	EMC 012645	980115	Oct. 12, 2018	Oct. 11, 2019
Preamplifier EMCI	EMC 330H	980112	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-800 0&3000	140811+170717	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1 000(140807)	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 12, 2018	Oct. 11, 2019
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 16, 2017	Aug. 15, 2019
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
DC Power Supply Topward	33010D	807748	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The IC Site Registration No. is 7450F-10.

3 General Information

3.1 General Description of EUT

Product	Tablet	
Brand	HP	
Test Model	HSN-C04C	
Status of EUT	Engineering Sample	
Power Supply Rating	7.7 Vdc (Li-ion battery) 20 Vdc (Adapter)	
Modulation Type	QPSK, 16QAM	
Frequency Range	LTE Band 30 (Channel Bandwidth: 5 MHz)	2307.5 ~ 2312.5 MHz
	LTE Band 30 (Channel Bandwidth: 10 MHz)	2310 MHz
Max. EIRP Power	LTE Band 30 (Channel Bandwidth: 5 MHz)	70.15 mW / 5MHz
	LTE Band 30 (Channel Bandwidth: 10 MHz)	74.30 mW / 5MHz
Antenna Type	PIFA Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The WWAN module (Brand: Fibocom, Model: L850-GL) was installed in EUT.
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	AcBel	TPN-AA03	I/P: 100-240 Vac, 50-60 Hz, 1500 mA O/P: 20 Vdc, 3.25 A
Battery	Dynapack	HSTNN-DB9E	7.7 Vdc, 5950 mAh
Keyboard 1	Primax	HSN-P01K	--
Keyboard 2	Cosmo	HSN-C01K	--
BT/WLAN Module	Intel® Wi-Fi 6 AX200	AX200D2WL	--
LTE Module	Fibocom	L850-GL	--

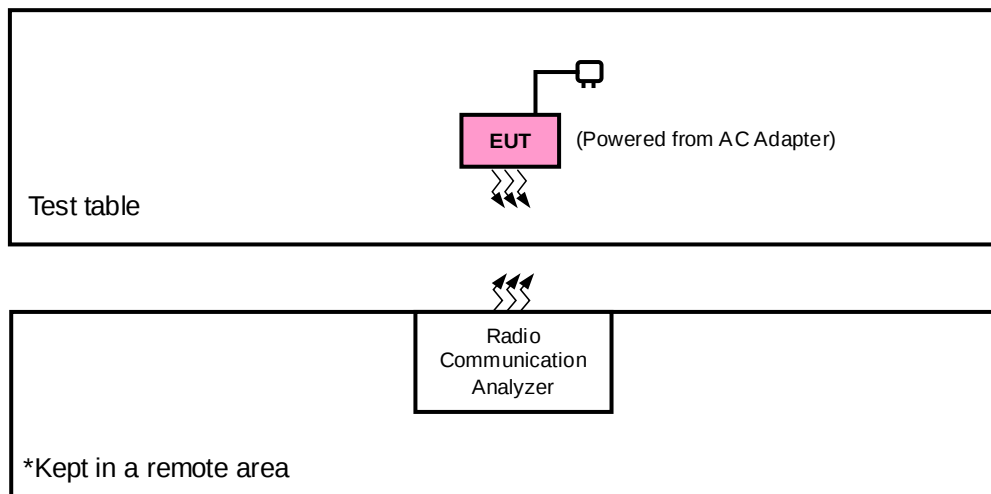
3. The antenna information of EUT is listed as below.

Ant. Type	Manufacturer	Parts Number	WWAN Antenna Gain (dBi)
			LTE 30
PIFA	INPAQ	Main Antenna: WA-P-LTE15-02-001 (DC330029D20) Aux. Antenna: WA-P-LTE15-02-002 (DC330029D30)	1.04

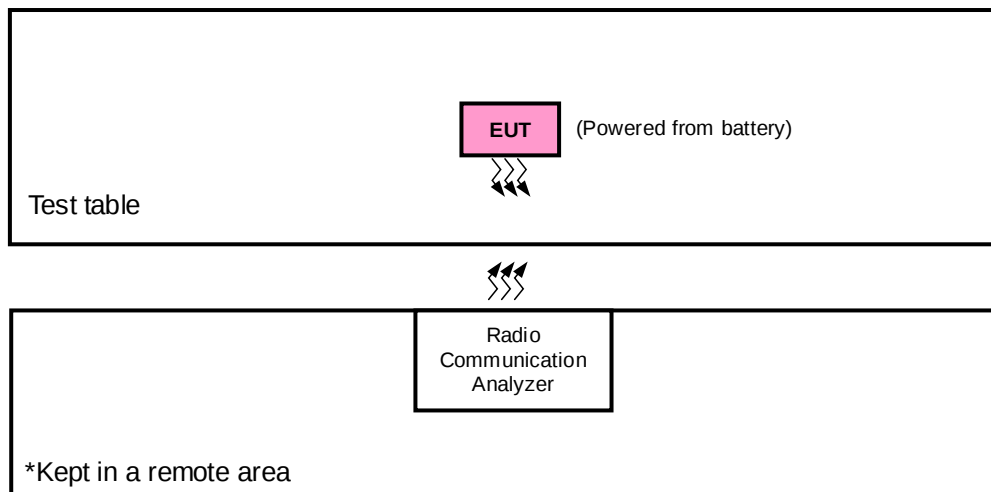
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System Under Test

<Radiated Emission Test>



<E.I.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis & NB Mode, and antenna ports.

The worst case was found when positioned on NB Mode for EIRP and NB Mode for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	27685 to 27735	27685, 27710, 27735	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		27710	27710	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	27685 to 27735	27685, 27710, 27735	5 MHz	QPSK	1 RB / 0 RB Offset
		27710	27710	10 MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25 deg. C, 65 % RH	3.3 Vdc	Tim Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz (System)	Tim Chen

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile and portable stations. (i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

4.1.2 Test Procedures

EIRP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW is 5 MHz and VBW is 15 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

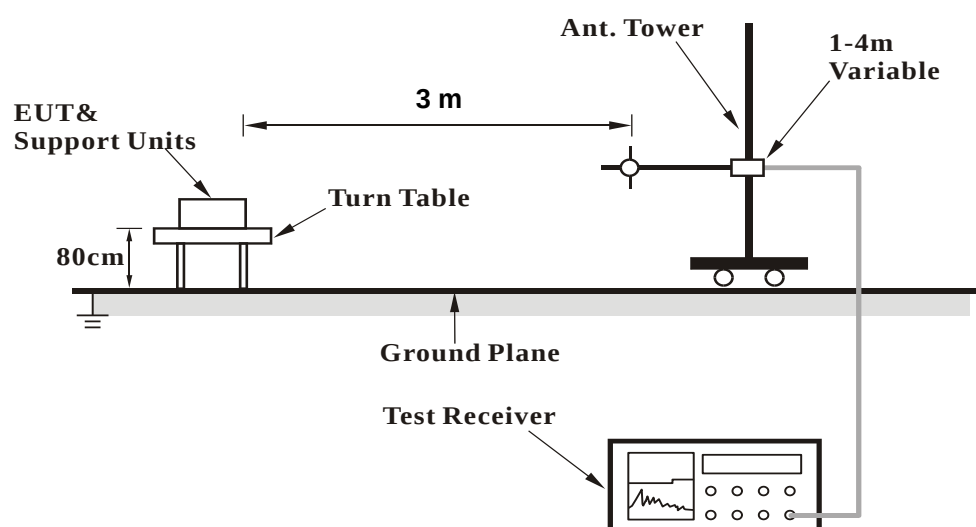
Conducted Power Measurement:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

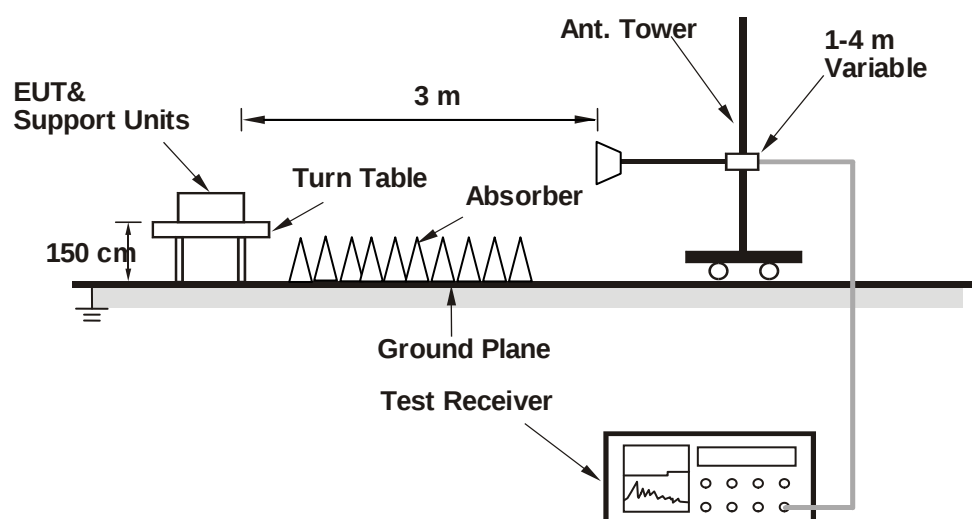
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

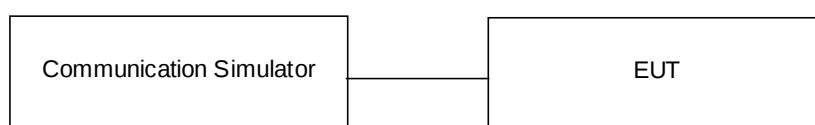


<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

LTE Band 30															
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			27710					Channel		27685	27710	27735	
		Frequency (MHz)			2310.0					Frequency (MHz)		2307.5	2310.0	2312.5	
10M	QPSK	1	0		22.43		0	5M	QPSK	1	0	22.33	22.38	22.31	0
		1	24		22.38		0			1	12	22.28	22.33	22.26	0
		1	49		22.36		0			1	24	22.26	22.31	22.24	0
		25	0		21.41		1			12	0	21.31	21.36	21.29	1
		25	12		21.39		1			12	6	21.29	21.34	21.27	1
		25	25		21.34		1			12	13	21.24	21.29	21.22	1
		50	0		21.32		1			25	0	21.22	21.27	21.20	1
	16QAM	1	0		21.44		1		16QAM	1	0	21.34	21.39	21.32	1
		1	24		21.39		1			1	12	21.29	21.34	21.27	1
		1	49		21.37		1			1	24	21.27	21.32	21.25	1
		25	0		20.42		2			12	0	20.32	20.37	20.30	2
		25	12		20.40		2			12	6	20.30	20.35	20.28	2
		25	25		20.35		2			12	13	20.25	20.30	20.23	2
		50	0		20.33		2			25	0	20.23	20.28	20.21	2

EIRP Power

LTE Band 30							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm/5MHz)	Correction Factor (dB)	EIRP Power Density (dBm/5MHz)	EIRP Power Density (mW/5MHz)	Polarization (H/V)
NB Mode	27685	2307.5	-20.78	38.99	18.21	66.22	H
	27710	2310.0	-19.71	38.17	18.46	70.15	
	27735	2312.5	-20.50	38.55	18.05	63.83	
	27685	2307.5	-27.11	39.27	12.16	16.44	V
	27710	2310.0	-26.31	38.68	12.37	17.26	
	27735	2312.5	-26.50	38.55	12.05	16.03	
Channel Bandwidth: 5 MHz / 16QAM							
NB Mode	27685	2307.5	-21.79	38.99	17.20	52.48	H
	27710	2310.0	-20.72	38.17	17.45	55.59	
	27735	2312.5	-21.51	38.55	17.04	50.58	
	27685	2307.5	-28.12	39.27	11.15	13.03	V
	27710	2310.0	-27.32	38.68	11.36	13.68	
	27735	2312.5	-27.51	38.55	11.04	12.71	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 30							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm/5MHz)	Correction Factor (dB)	EIRP Power Density (dBm/5MHz)	EIRP Power Density (mW/5MHz)	Polarization (H/V)
NB Mode	27710	2310.0	-19.46	38.17	18.71	74.30	H
	27710	2310.0	-26.06	38.68	12.62	18.28	V
Channel Bandwidth: 10 MHz / 16QAM							
NB Mode	27710	2310.0	-20.47	38.17	17.70	58.88	H
	27710	2310.0	-27.07	38.68	11.61	14.49	V

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log (P)$ dB. The limit of emission is equal to -40 dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

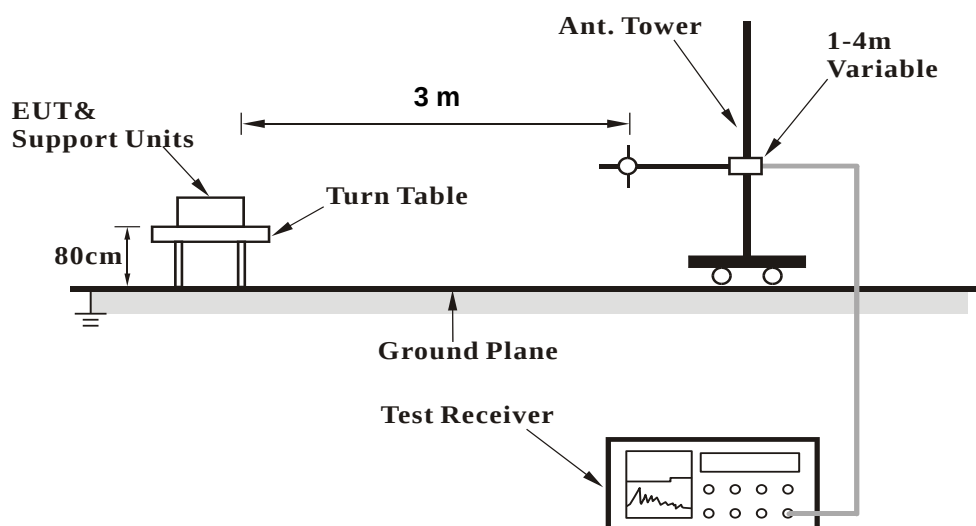
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.2.3 Deviation from Test Standard

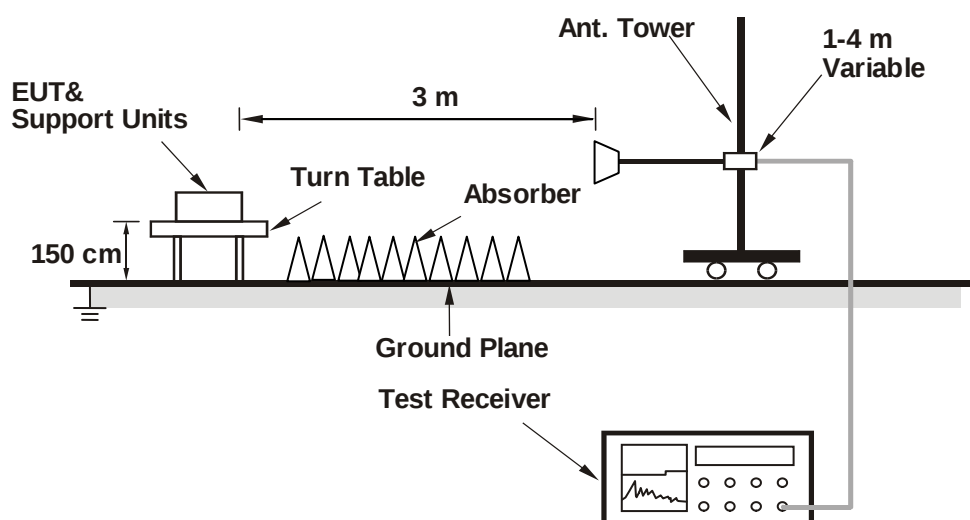
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

LTE Band 30

Channel Bandwidth: 5 MHz / QPSK

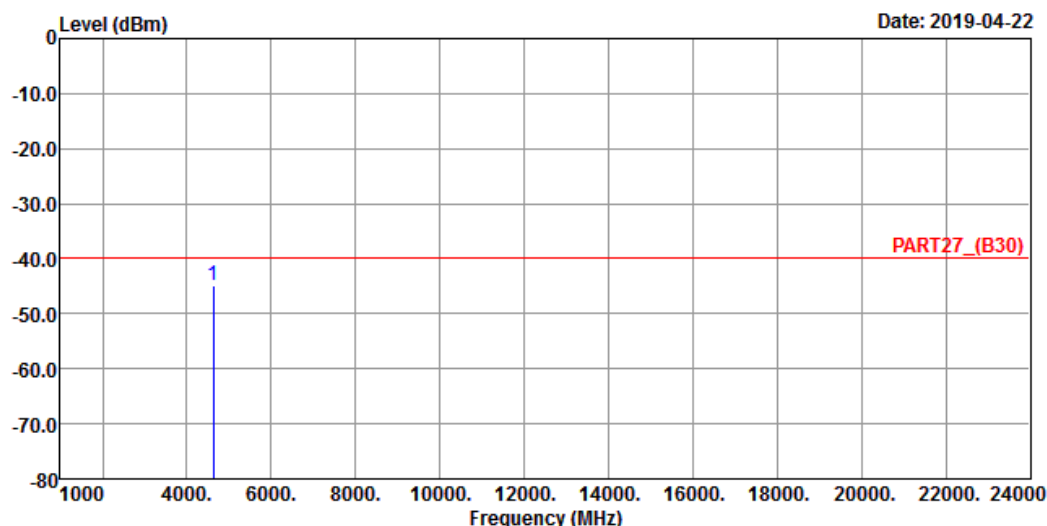
Low Channel

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A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27_(B30) HORIZONTAL

Remak : LTE Band 30 QPSK_5M Link_L-CH

Tested by: tim-chen

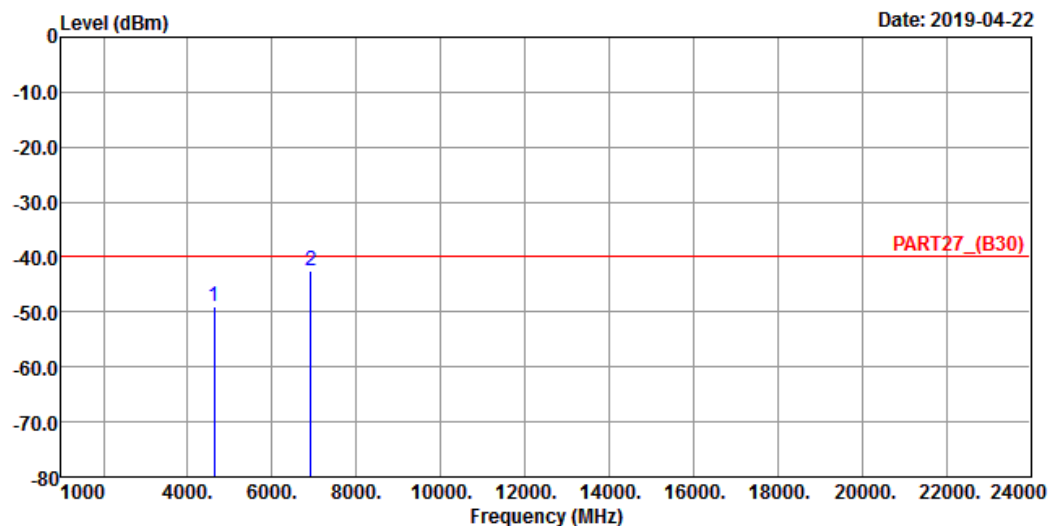
Freq	Level	Read Level	Limit Line	Over Factor	Limit Remark
MHz	dBm	dBm	dBm	dB	dB

1 pp 4620.00 -44.87 -41.19 -40.00 -3.68 -4.87 Peak



A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27_(B30) VERTICAL

Remak : LTE Band 30 QPSK_5M Link_L-CH

Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	4620.00	-49.07	-45.39	-40.00	-3.68	-9.07	Peak
2 pp	6930.00	-42.53	-45.22	-40.00	2.69	-2.53	Peak

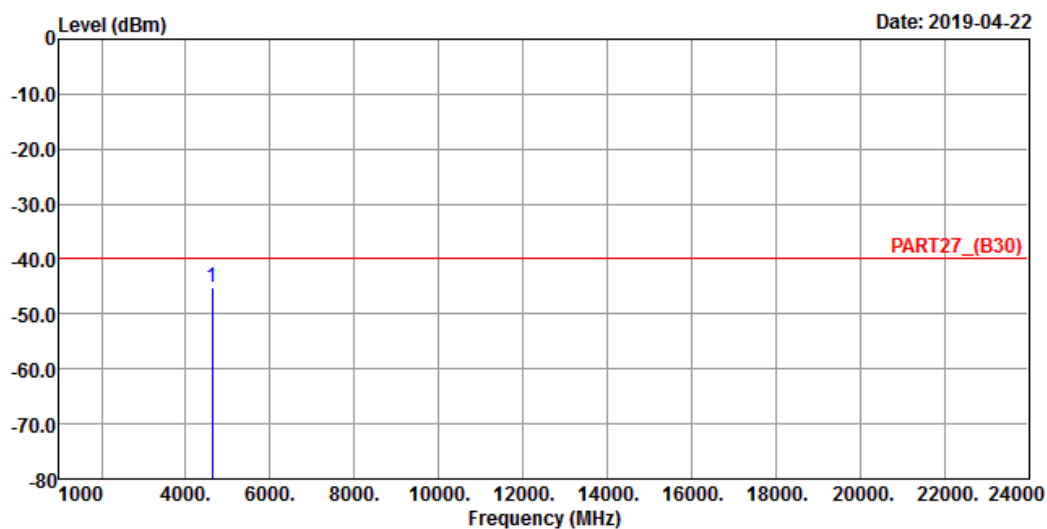
Middle Channel

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A D T

Data: 3



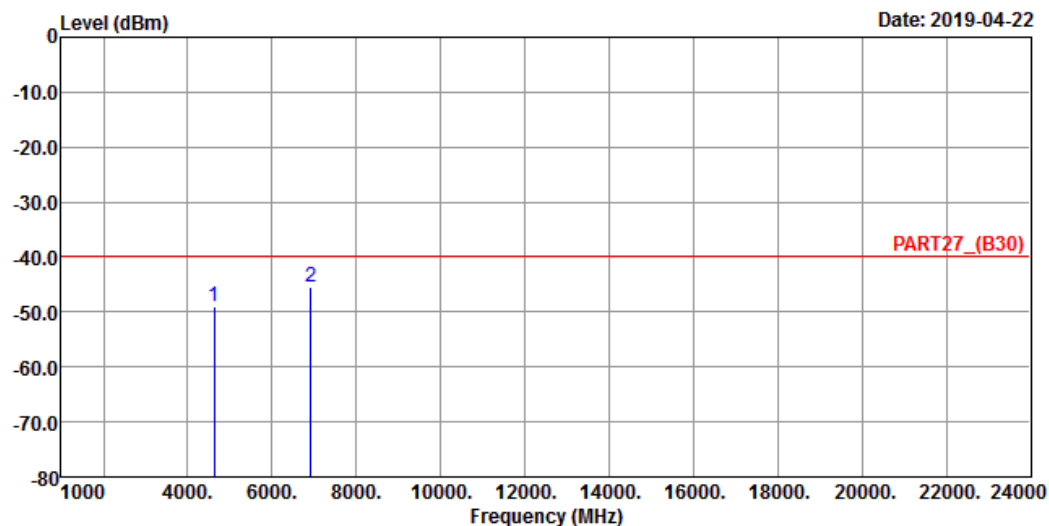
Site : 966 Chamber 5
Condition: PART27_(B30) HORIZONTAL
Remak : LTE Band 30 QPSK_5M Link_M-CH
Tested by: tim-chen

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4620.00	-45.20	-41.52	-40.00	-3.68	-5.20	Peak



A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27_(B30) VERTICAL
 Remak : LTE Band 30 QPSK_5M Link_M-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	4620.00	-48.94	-45.26	-40.00	-3.68	-8.94	Peak
2 pp	6930.00	-45.37	-48.06	-40.00	2.69	-5.37	Peak

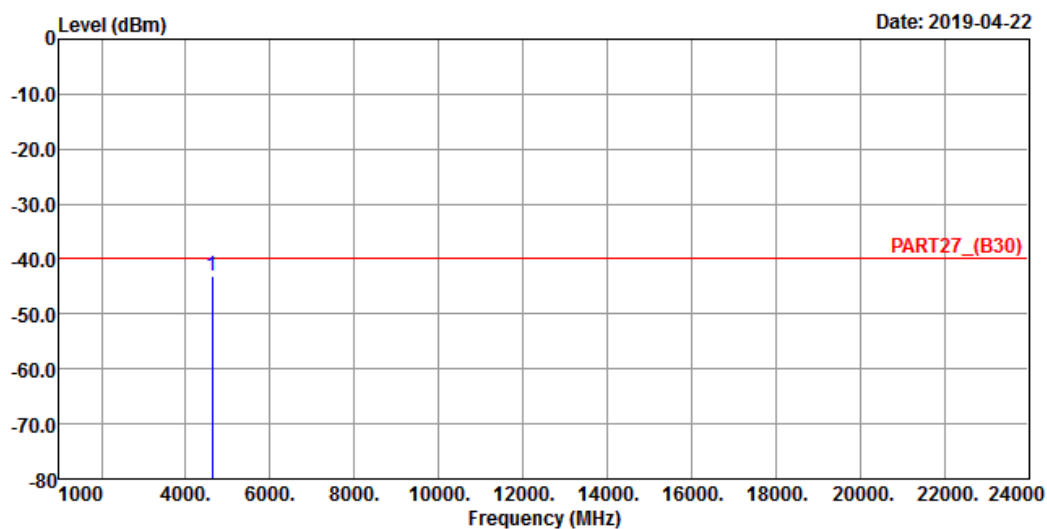
High Channel

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A D T

Data: 3

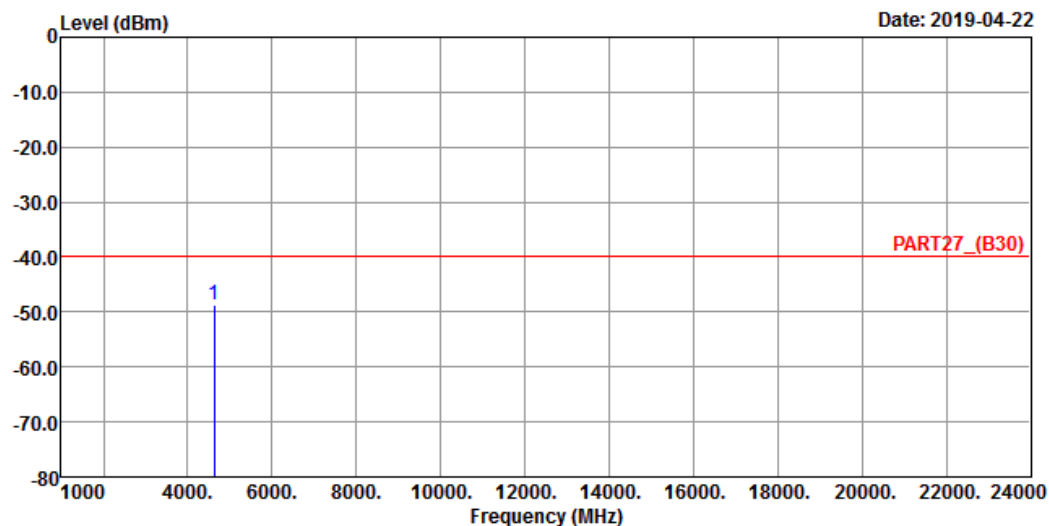


Site : 966 Chamber 5
Condition: PART27_(B30) HORIZONTAL
Remak : LTE Band 30 QPSK_5M Link_H-CH
Tested by: tim-chen

Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4625.00	-43.23	-39.55	-40.00	-3.68	-3.23	Peak



Data: 4



Site : 966 Chamber 5

Condition: PART27_(B30) VERTICAL

Remak : LTE Band 30 QPSK_5M Link_H-CH

Tested by: tim-chen

Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4625.00	-48.72	-45.04	-40.00	-3.68	-8.72	Peak

Channel Bandwidth: 10 MHz / QPSK
Middle Channel

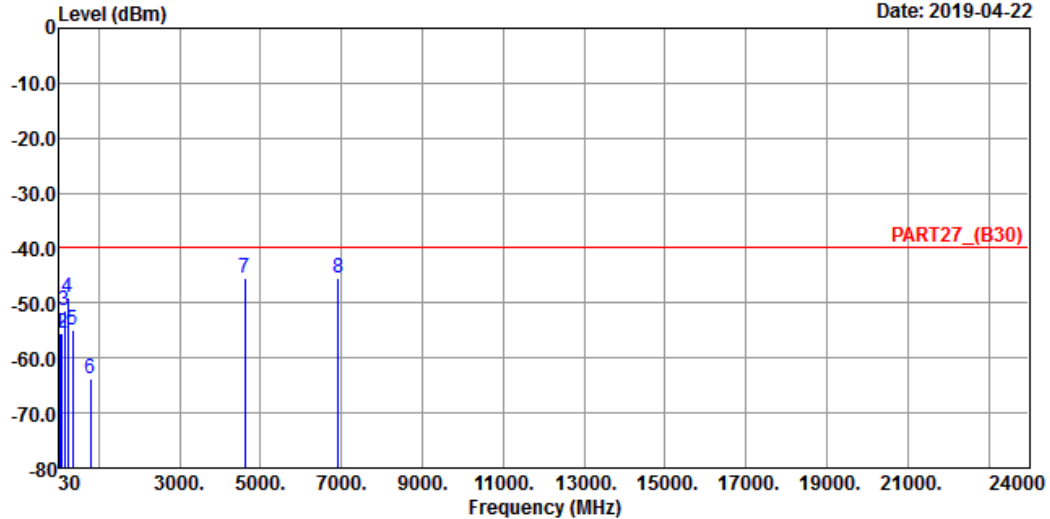
Bureau Veritas Consumer Products Services Ltd., Taoyuan 31041



A D T

Data: 7

Date: 2019-04-22

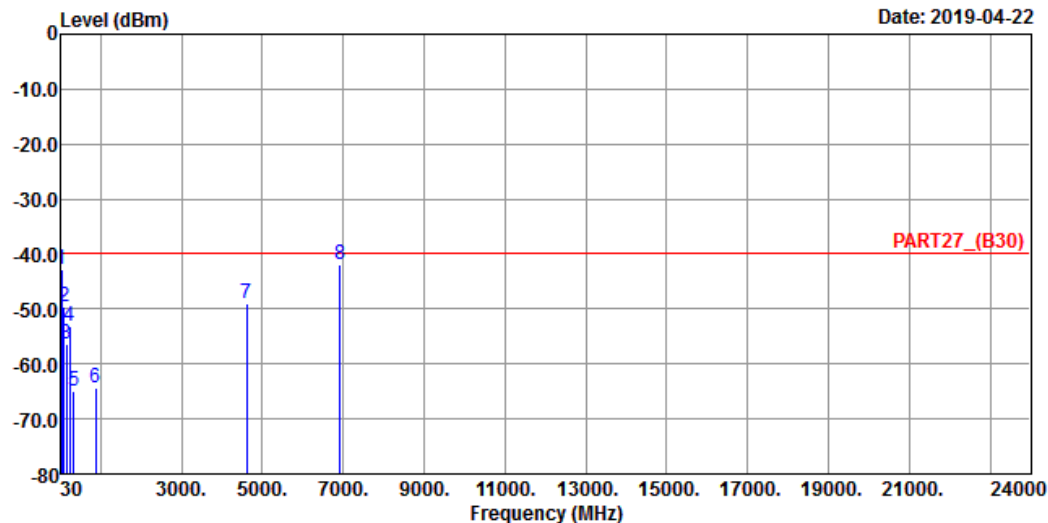


Site : 966 Chamber 5
Condition: PART27_(B30) HORIZONTAL
Remak : LTE Band 30 QPSK_10M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.23	-55.58	-54.11	-40.00	-1.47	-15.58	Peak
2	104.79	-55.63	-45.19	-40.00	-10.44	-15.63	Peak
3	160.14	-51.46	-46.62	-40.00	-4.84	-11.46	Peak
4	242.76	-49.02	-42.71	-40.00	-6.31	-9.02	Peak
5	348.30	-54.99	-48.72	-40.00	-6.27	-14.99	Peak
6	804.70	-63.82	-64.51	-40.00	0.69	-23.82	Peak
7	4620.00	-45.55	-41.87	-40.00	-3.68	-5.55	Peak
8 pp	6930.00	-45.53	-48.22	-40.00	2.69	-5.53	Peak



Data: 8



Site : 966 Chamber 5

Condition: PART27_(B30) VERTICAL

Remak : LTE Band 30 QPSK_10M Link_M-CH

Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	32.43	-42.78	-41.69	-40.00	-1.09	-2.78	Peak
2	104.25	-49.64	-39.20	-40.00	-10.44	-9.64	Peak
3	161.22	-56.41	-51.50	-40.00	-4.91	-16.41	Peak
4	245.19	-53.12	-46.93	-40.00	-6.19	-13.12	Peak
5	337.10	-65.04	-58.61	-40.00	-6.43	-25.04	Peak
6	882.40	-64.47	-64.94	-40.00	0.47	-24.47	Peak
7	4620.00	-49.00	-45.32	-40.00	-3.68	-9.00	Peak
8 pp	6930.00	-41.92	-44.61	-40.00	2.69	-1.92	Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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