

Partial FCC Test Report

(PART 24)

Report No.: RF171226C11-1

FCC ID: KA2WP902A1

Test Model: DWP-902

Received Date: Dec. 26, 2017

Test Date: Jan. 20, 2018 ~ Jan. 24, 2018

Issued Date: Feb. 02, 2018

Applicant: D-Link Corporation

Address: 289 Xinhua 3rd RD Neihu district Taipei Taiwan

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 (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan
Hsien 333, Taiwan, R.O.C.

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
R.O.C

**FCC Registration /
Designation Number:** 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RF171226C11-1	Original Release	Feb. 02, 2018

1 Certificate of Conformity

Product: LTE Router

Brand: D-Link Corporation

Test Model: DWP-902

Sample Status: Identical Prototype

Applicant: D-Link Corporation

Test Date: Jan. 20, 2018 ~ Jan. 24, 2018

Standards: FCC Part 24, Subpart E

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 :



Date:

Feb. 02, 2018

Vera Huang / Specialist

Approved by :



Date:

Feb. 02, 2018

Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak to Average Ratio	N/A	Refer to Note
2.1055 24.235	Frequency Stability	N/A	Refer to Note
2.1049 24.238(b)	Occupied Bandwidth	N/A	Refer to Note
24.238(b)	Band Edge Measurements	N/A	Refer to Note
2.1051 24.238	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -35.94 dB at 3800.00 MHz.

Note:

Only test items for Radiated Emissions and Effective Isotropic Radiated Power tests were performed for this report. For other test data, please refer to TTL Report No.: B15W50341-FCC-RF-Rev1 for module (Name: Wireless Modules, Model: EM7455).

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	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jul. 05, 2017	Jul. 04, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna ETS-Lindgren	3117	00143293	Jun. 26, 2017	Jun. 25, 2018
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 07, 2017	Jul. 06, 2018
Bluetooth Tester	CBT	100980	Jun. 28, 2017	Jun. 27, 2019
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 26, 2017	Jun. 25, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 26, 2017	Jun. 25, 2018
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 08, 2016	Jul. 07, 2017

- 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 HsinTien Chamber 1.
3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

Product	LTE Router	
Brand	D-Link Corporation	
Test Model	DWP-902	
Status of EUT	Identical Prototype	
Power Supply Rating	54 Vdc (Adapter or POE)	
Modulation Type	LTE	QPSK, 16QAM
Frequency Range	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
Max. EIRP Power	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1425.61 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1425.61 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1425.61 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1428.89 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1442.12 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1468.93 mW
Antenna Type	Internal PCB Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

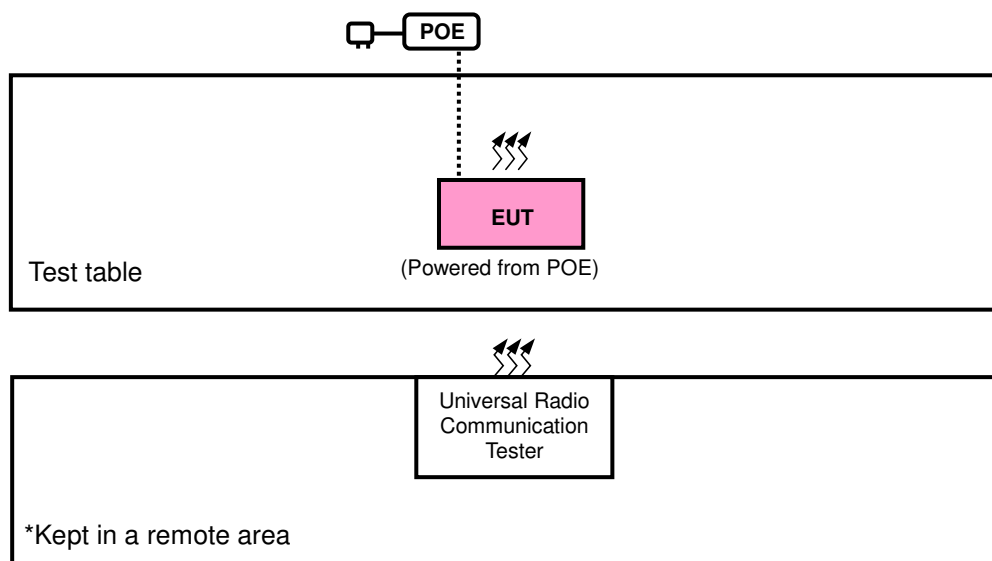
Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Gospell Digital Technology Co. Ltd.	G0753-540-060	I/P: 100-240 Vac, 50/60 Hz, 0.75 A O/P: 54 Vdc, 0.6 A 1.2 m non-shielded cable w/o core
POE	D-Link	DPE-301GI	54 Vdc, 0.6 A
WWAN Module	Sierra	EM7455	--

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

3.2 Configuration of System under 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, and antenna ports.

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP	Radiated Emission
LTE Band 2	X-plane	X-axis

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	18700 to 19100	18700, 18900, 19100	20 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	26 deg. C, 58 % RH	120 Vac, 60 Hz	Karl Lee
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

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 24

KDB 971168 D01 Power Meas License Digital Systems v02r02

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 / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

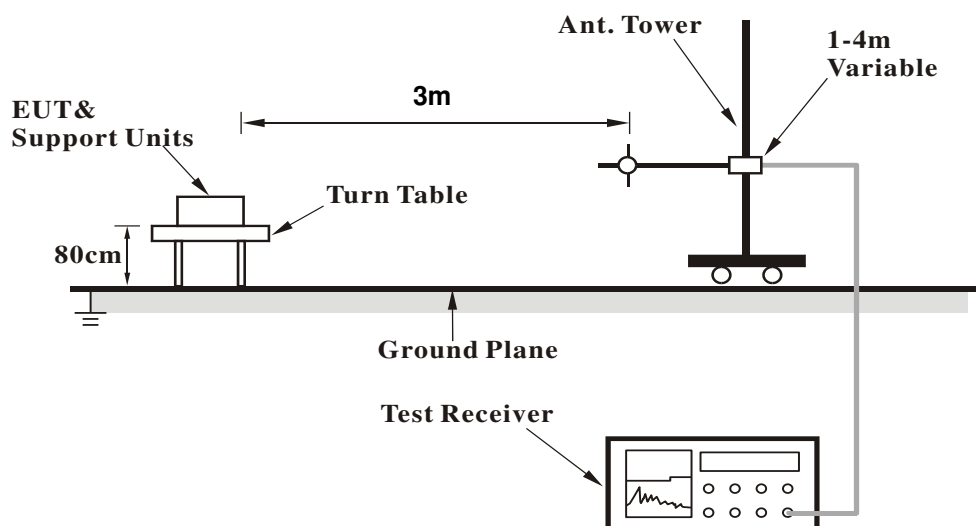
EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, 5 MHz for WCDMA and CDMA, and 10 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

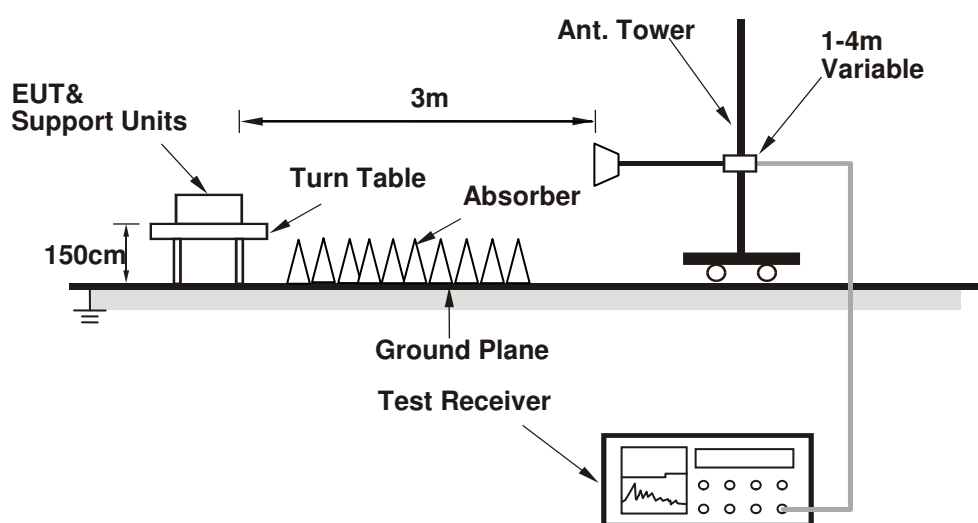
4.1.3 Test Setup

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).

4.1.4 Test Results

EIRP Power (dBm)

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18607	1850.7	-13.18	44.70	31.52	1419.06	H
	18900	1880.0	-13.16	44.70	31.54	1425.61	
	19193	1909.3	-13.04	44.57	31.53	1423.31	
	18607	1850.7	-16.72	44.27	27.55	568.85	V
	18900	1880.0	-17.38	44.87	27.49	561.05	
	19193	1909.3	-17.11	44.61	27.50	562.73	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	18607	1850.7	-14.21	44.70	30.49	1119.44	H
	18900	1880.0	-14.19	44.70	30.51	1124.60	
	19193	1909.3	-14.06	44.57	30.51	1125.38	
	18607	1850.7	-17.72	44.27	26.55	451.86	V
	18900	1880.0	-18.39	44.87	26.48	444.63	
	19193	1909.3	-18.12	44.61	26.49	445.96	

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18615	1851.5	-13.16	44.70	31.54	1425.61	H
	18900	1880.0	-13.25	44.70	31.45	1396.37	
	19185	1908.5	-13.04	44.57	31.53	1423.31	
	18615	1851.5	-16.75	44.27	27.52	564.94	V
	18900	1880.0	-17.34	44.87	27.53	566.24	
	19185	1908.5	-17.11	44.61	27.50	562.73	
Channel Bandwidth: 3 MHz / 16QAM							
X	18615	1851.5	-14.15	44.70	30.55	1135.01	H
	18900	1880.0	-14.21	44.70	30.49	1119.44	
	19185	1908.5	-14.08	44.57	30.49	1120.21	
	18615	1851.5	-17.86	44.27	26.41	437.52	V
	18900	1880.0	-18.34	44.87	26.53	449.78	
	19185	1908.5	-18.12	44.61	26.49	445.96	

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18625	1852.5	-13.16	44.70	31.54	1425.61	H
	18900	1880.0	-13.18	44.70	31.52	1419.06	
	19175	1907.5	-13.11	44.57	31.46	1400.55	
	18625	1852.5	-16.74	44.27	27.53	566.24	V
	18900	1880.0	-17.36	44.87	27.51	563.64	
	19175	1907.5	-17.12	44.61	27.49	561.44	
Channel Bandwidth: 5 MHz / 16QAM							
X	18625	1852.5	-14.15	44.70	30.55	1135.01	H
	18900	1880.0	-14.21	44.70	30.49	1119.44	
	19175	1907.5	-14.13	44.57	30.44	1107.39	
	18625	1852.5	-17.75	44.27	26.52	448.75	V
	18900	1880.0	-18.37	44.87	26.50	446.68	
	19175	1907.5	-18.11	44.61	26.50	446.99	

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18650	1855.0	-13.15	44.70	31.55	1428.89	H
	18900	1880.0	-13.16	44.70	31.54	1425.61	
	19150	1905.0	-13.08	44.57	31.49	1410.26	
	18650	1855.0	-16.74	44.27	27.53	566.24	V
	18900	1880.0	-17.38	44.87	27.49	561.05	
	19150	1905.0	-17.06	44.61	27.55	569.25	
Channel Bandwidth: 10 MHz / 16QAM							
X	18650	1855.0	-14.19	44.70	30.51	1124.60	H
	18900	1880.0	-14.12	44.70	30.58	1142.88	
	19150	1905.0	-14.06	44.57	30.51	1125.38	
	18650	1855.0	-17.75	44.27	26.52	448.75	V
	18900	1880.0	-18.36	44.87	26.51	447.71	
	19150	1905.0	-18.07	44.61	26.54	451.13	

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18675	1857.5	-13.11	44.70	31.59	1442.12	H
	18900	1880.0	-13.18	44.70	31.52	1419.06	
	19125	1902.5	-13.04	44.57	31.53	1423.31	
	18675	1857.5	-16.71	44.27	27.56	570.16	V
	18900	1880.0	-17.39	44.87	27.48	559.76	
	19125	1902.5	-17.09	44.61	27.52	565.33	
Channel Bandwidth: 15 MHz / 16QAM							
X	18675	1857.5	-14.12	44.70	30.58	1142.88	H
	18900	1880.0	-14.21	44.70	30.49	1119.44	
	19125	1902.5	-14.08	44.57	30.49	1120.21	
	18675	1857.5	-17.73	44.27	26.54	450.82	V
	18900	1880.0	-18.42	44.87	26.45	441.57	
	19125	1902.5	-18.02	44.61	26.59	456.35	

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18700	1860.0	-13.03	44.70	31.67	1468.93	H
	18900	1880.0	-13.10	44.70	31.60	1445.44	
	19100	1900.0	-13.02	44.57	31.55	1429.88	
	18700	1860.0	-16.59	44.27	27.68	586.14	V
	18900	1880.0	-17.28	44.87	27.59	574.12	
	19100	1900.0	-17.04	44.61	27.57	571.87	
Channel Bandwidth: 20 MHz / 16QAM							
X	18700	1860.0	-14.04	44.70	30.66	1164.13	H
	18900	1880.0	-14.12	44.70	30.58	1142.88	
	19100	1900.0	-14.06	44.57	30.51	1125.38	
	18700	1860.0	-17.58	44.27	26.69	466.66	V
	18900	1880.0	-18.26	44.87	26.61	458.14	
	19100	1900.0	-18.04	44.61	26.57	454.26	

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

4.2.2 Test Procedure

- 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.
- 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.
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}.$

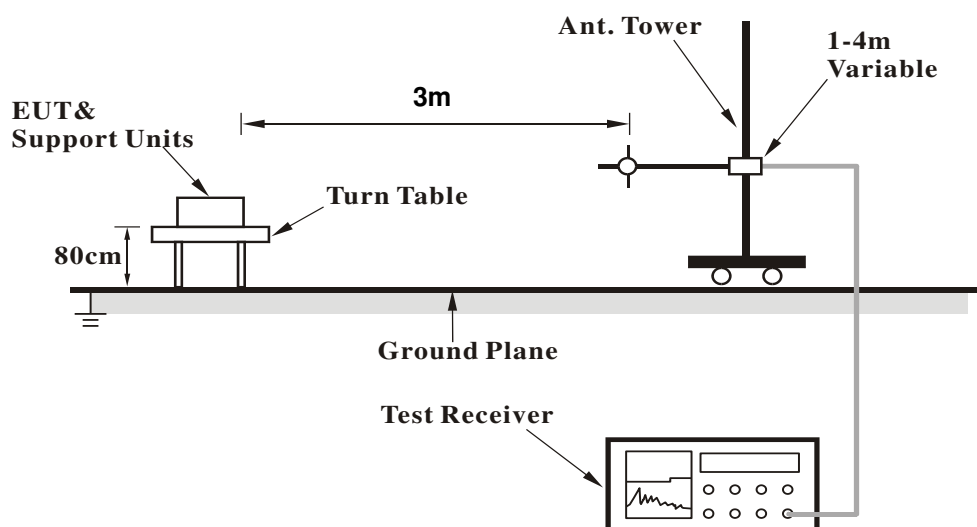
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

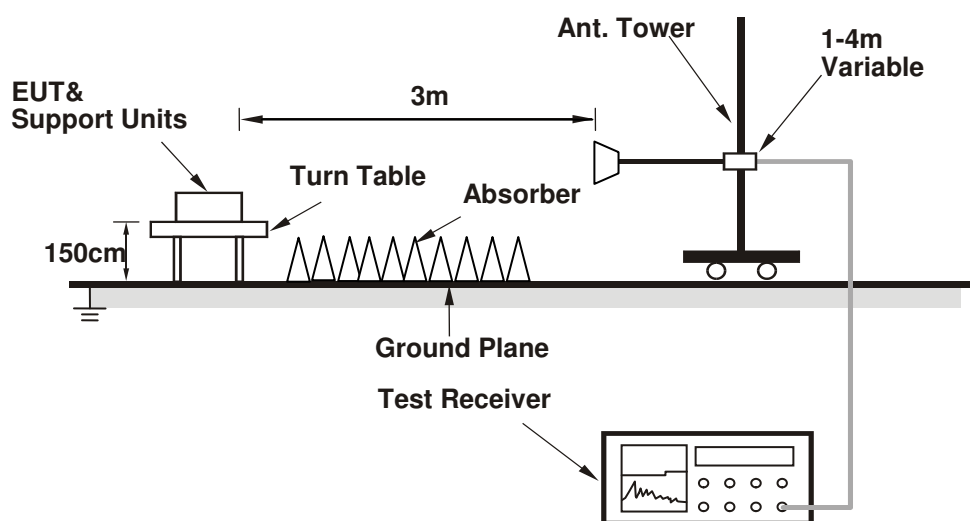
No deviation.

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 2

Channel Bandwidth: 20 MHz / QPSK

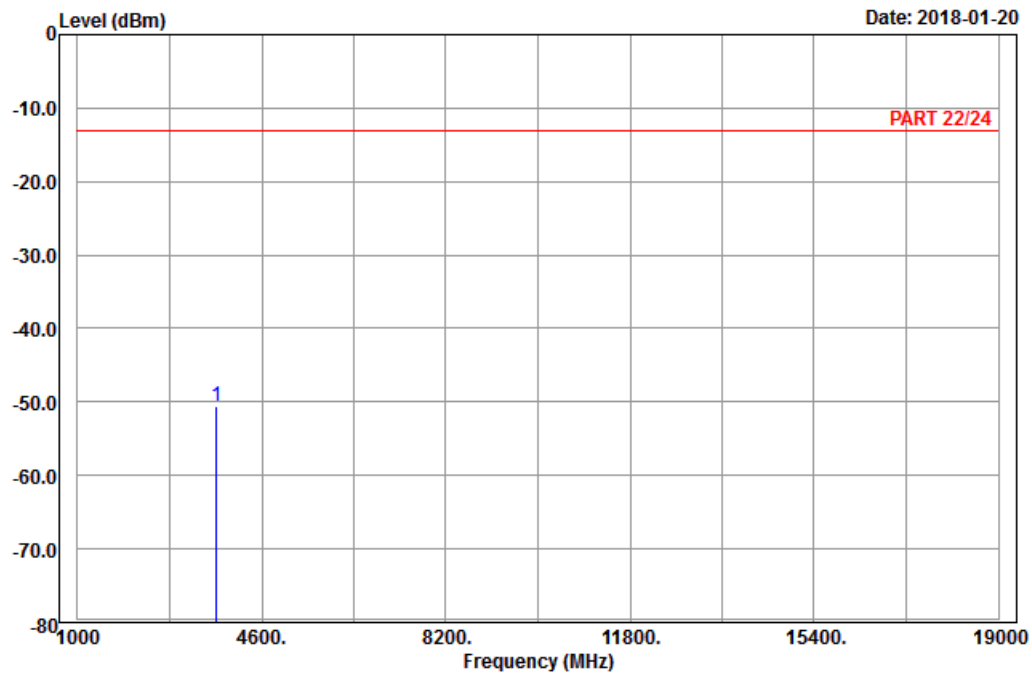
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1

Condition: PART 22/24 Horizontal

Remark : LTE_Band 2_Link_CH18700

Tested by: Karl Lee

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

1	pp	3720.00	-50.65	-66.62	-13.00	-37.65	15.97	Peak
---	----	---------	--------	--------	--------	--------	-------	------

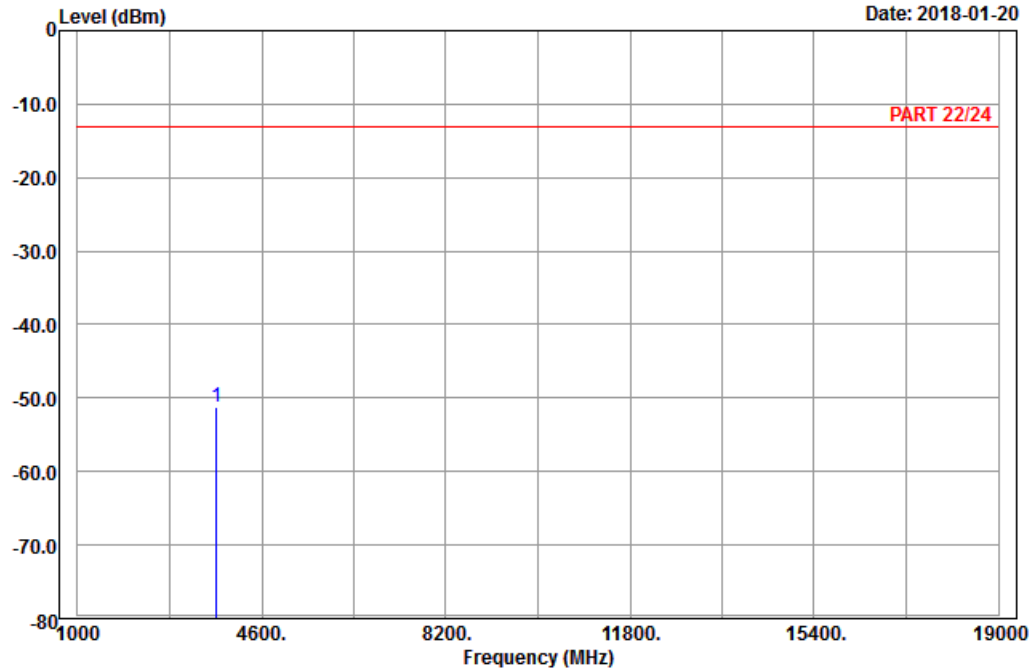


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A D T

Data: 10

Date: 2018-01-20



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18700
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-51.30	-67.27	-13.00	-38.30	15.97	Peak

Middle Channel

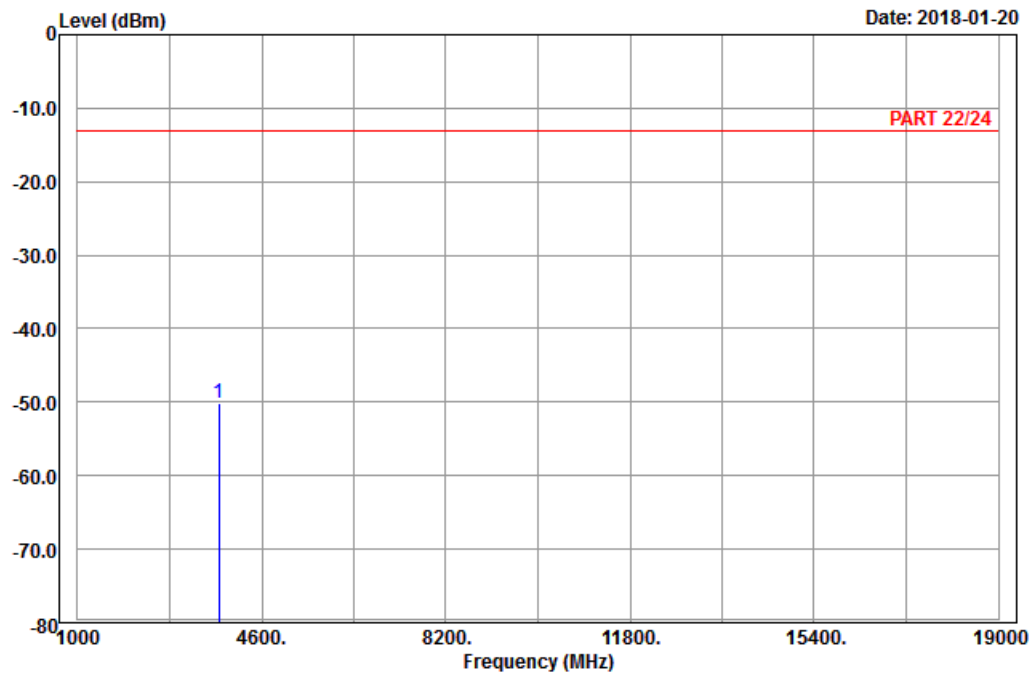


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 9

Date: 2018-01-20



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

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

1 pp 3760.00 -50.04 -66.18 -13.00 -37.04 16.14 Peak

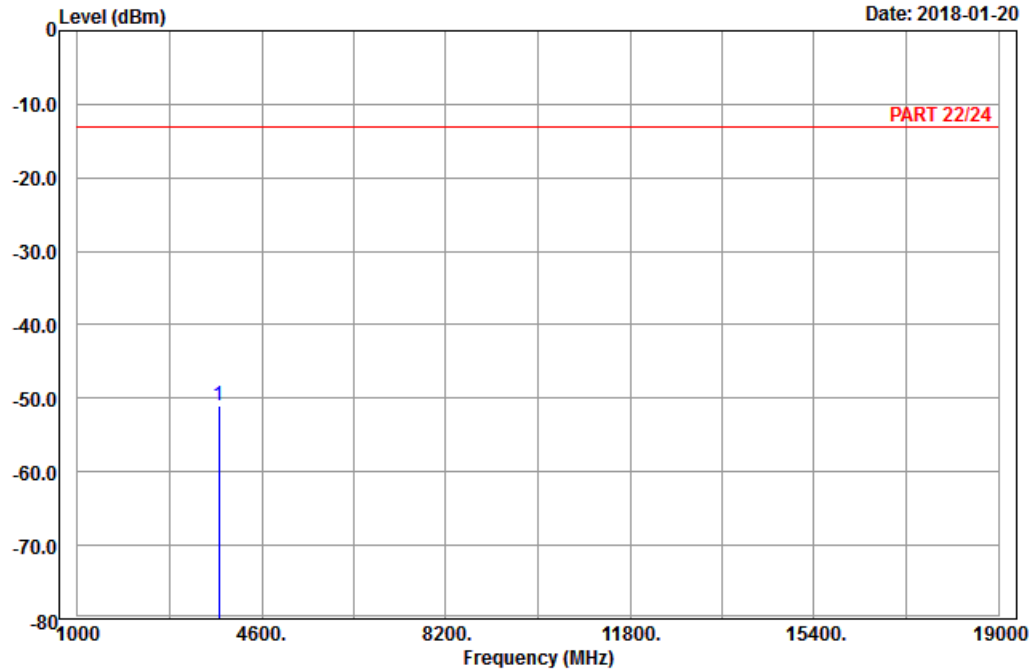


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 10

Date: 2018-01-20



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-51.06	-67.20	-13.00	-38.06	16.14	Peak

High Channel

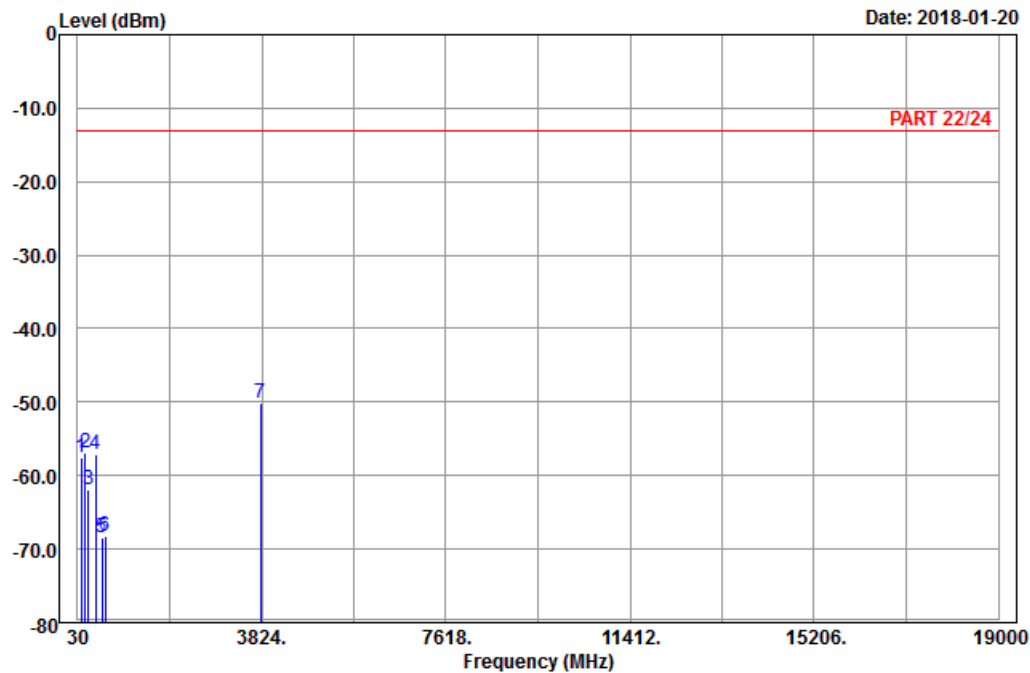


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-01-20



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19100
Tested by: Karl Lee

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	96.42	-57.44	-47.10	-13.00	-44.44	-10.34	Peak
2	182.28	-56.97	-51.36	-13.00	-43.97	-5.61	Peak
3	246.54	-61.99	-56.43	-13.00	-48.99	-5.56	Peak
4	393.10	-57.04	-53.94	-13.00	-44.04	-3.10	Peak
5	528.90	-68.43	-65.21	-13.00	-55.43	-3.22	Peak
6	595.40	-68.15	-68.38	-13.00	-55.15	0.23	Peak
7 pp	3800.00	-50.11	-66.52	-13.00	-37.11	16.41	Peak

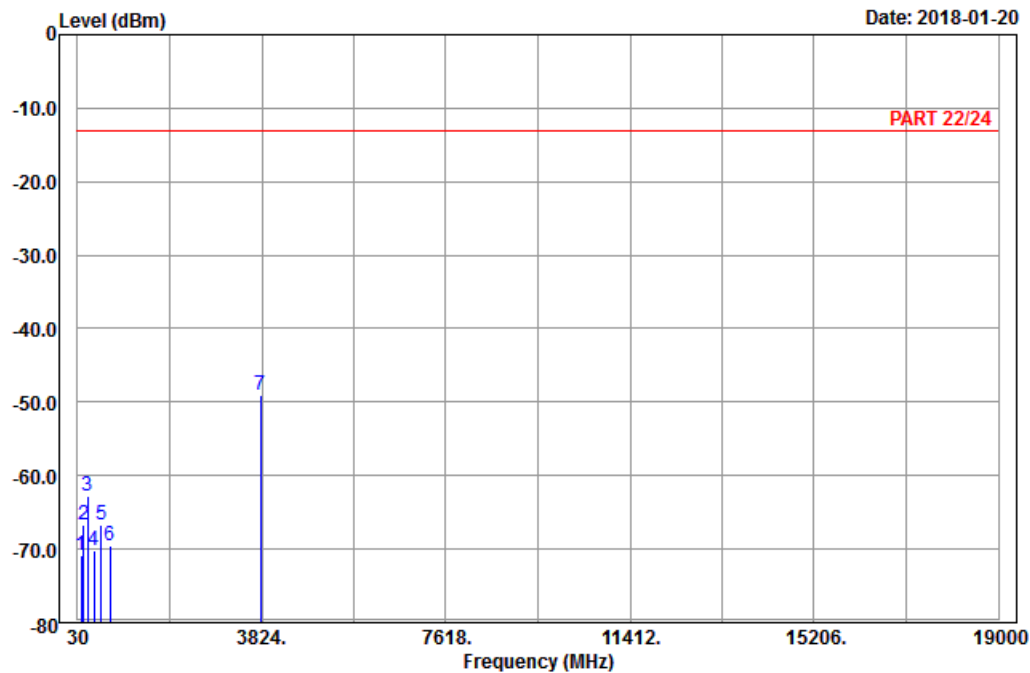


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2018-01-20



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE_Band 2_Link_CH19100

Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	97.23	-70.77	-60.48	-13.00	-57.77	-10.29	Peak
2	147.99	-66.72	-58.82	-13.00	-53.72	-7.90	Peak
3	228.72	-62.70	-56.91	-13.00	-49.70	-5.79	Peak
4	365.10	-70.20	-65.60	-13.00	-57.20	-4.60	Peak
5	518.40	-66.61	-62.68	-13.00	-53.61	-3.93	Peak
6	694.80	-69.60	-69.25	-13.00	-56.60	-0.35	Peak
7 pp	3800.00	-48.94	-65.35	-13.00	-35.94	16.41	Peak

5 Pictures of Test Arrangements

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

Appendix – Information on 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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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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