

FCC Test Report

Report No.: FC171225E01

Test Model: R-R0013

Received Date: Dec. 25, 2017

Test Date: Jan. 05 to 06, 2018

Issued Date: Jan. 16, 2018

Applicant: LOGITECH FAR EAST LTD.

Address: #2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (1): E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.

**FCC Registration /
Designation Number:** 810758 / TW1085 for Test Location (1)
960022 / TW1058 for Test Location (2)



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Release Control Record

Issue No.	Description	Date Issued
FC171225E01	Original release.	Jan. 16, 2018

1 Certificate of Conformity

Product: Wireless Presenter
Brand: Logitech
Test Model: R-R0013
Sample Status: ENGINEERING SAMPLE
Applicant: LOGITECH FAR EAST LTD.
Test Date: Jan. 05 to 06, 2018
Standards: 47 CFR FCC Part 15, Subpart B, Class B
ICES-003:2016 Issue 6, Class B
ANSI C63.4:2014

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 EMC characteristics under the conditions specified in this report.

Prepared by : Cindy Hsin , **Date:** Jan. 16, 2018
Cindy Hsin / Specialist

Approved by : Ken Lu , **Date:** Jan. 16, 2018
Ken Lu / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart B / ICES-003:2016 Issue 6, Class B

ANSI C63.4:2014

FCC Clause	ICES-003 Clause	Test Item	Result/Remarks	Verdict
15.107	6.1	AC Power Line Conducted Emissions	Not applicable, because the port is absent in the EUT	N/A
15.109	6.2.1	Radiated Emissions up to 1 GHz	Minimum passing Class B margin is -4.74 dB at 49.96 MHz	Pass
	6.2.2	Radiated Emissions above 1 GHz	Minimum passing Class B margin is -4.59 dB at 11297.33 MHz	Pass

Note: There is no deviation to the applied test methods and requirements covered by the scope of this report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	3.91 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	4.73 dB
	6GHz ~ 18GHz	5.24 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 Features of EUT

The tests reported herein were performed according to the method specified by LOGITECH FAR EAST LTD., for detailed feature description, please refer to the manufacturer's specifications or user's manual.

3.2 General Description of EUT

Product	Wireless Presenter
Brand	Logitech
Test Model	R-R0013
Sample Status	ENGINEERING SAMPLE
Operating Software	NA
Power Supply rating	DC 1.5V from battery
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. The EUT may have a lot of colors for marketing requirement.
2. The antenna provided to the EUT, please refer to the following table:

Brand	Model	Antenna Gain (dBi)	Frequency range(GHz)	Antenna Type	Connector Type
Yageo (Taiwan) Ltd.	CAN4311712112453K	-3.55	2.4~2.4835	Ceramic Chip Antenna	None

3. 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.

3.3 Operating Modes of EUT and Determination of Worst Case Operating Mode

For radiated emission test, the EUT has been pre-tested under following test modes, and Mode A was the worst cases for final test.

Mode	Test Condition	
	Radiated emission test	
	Description	Arrangement
A	Unifying + Laser	Horizontal Placement
B	BLE + Laser	Horizontal Placement
C	Unifying + Laser	Vertical Placement
D	Unifying + Laser	Side Lying

NOTE: The test configurations are defined by the applicant requirement.

Test mode is presented in the report as below.

Mode	Test Condition	
	Description	Arrangement
1	Unifying + Laser	Horizontal Placement

3.4 Test Program Used and Operation Descriptions

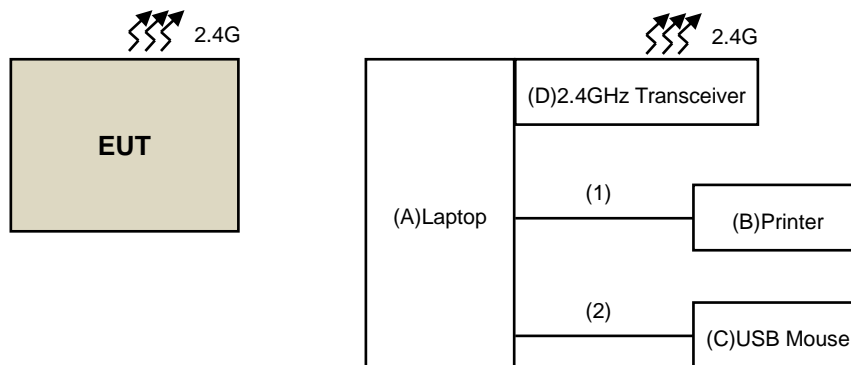
1. Turn on the power of all equipment.
2. The EUT connects with the support unit A (Laptop) via support unit D (2.4GHz Transceiver) by wireless transmission.
3. The support unit A (Laptop) runs test program "PowerPoint.exe" to enable EUT under transmission / receiving condition continuously via the support unit D (2.4GHz Transceiver) by wireless transmission.
4. The Support unit A (Laptop) runs" media player.exe" then sends "Color bar" video to itself.

3.5 Primary Clock Frequencies of Internal Source

The EUT is provided by LOGITECH FAR EAST LTD., for detailed internal source, please refer to the manufacturer's specifications.

4 Configuration and Connections with EUT

4.1 Connection Diagram of EUT and Peripheral Devices



4.2 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	PP27L	6YLB32S	FCC DoC	Provided by Lab
B.	Printer	EPSON	LQ-300+II	G88Y074083	FCC DoC	Provided by Lab
C.	USB Mosuse	DELL	MOC5UO	I1401ML5	FCC DoC	Provided by Lab
D.	2.4GHz Transceiver	Logitech	C-U0016	NA	NA	Supplied by client

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.8	Yes	0	Provided by Lab
2.	USB Cable	1	1.8	Yes	0	Provided by Lab

5 Radiated Emissions up to 1 GHz

5.1 Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960		47	37	
960-1000	49.5			43.5

Radiated Emissions Limits at 3 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960		57.5	47.5	
960-1000	60			54

- Notes:
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
 3. QP detector shall be applied if not specified.

5.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010125	Apr. 15, 2017	Apr. 14, 2018
	N9038A	MY50010132	June. 16, 2017	June. 15, 2018
Pre-Amplifier Sonoma	310N	352925	Aug. 28, 2017	Aug. 27, 2018
	310N	352926	Aug. 28, 2017	Aug. 27, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-359	Dec. 11, 2017	Dec. 10, 2018
	VULB 9168	9168-358	Dec. 06, 2017	Dec. 05, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	CHF-001	Sep. 07, 2017	Sep. 06, 2018
	UNAT-5+	CHF-002	Sep. 07, 2017	Sep. 06, 2018
RF Cable	8D-FB	CHFCAB-001-1 CHFCAB-001-3 CHFCAB-001-4	Sep. 20, 2017	Sep. 19, 2018
		CHFCAB-002-1 CHFCAB-002-3 CHFCAB-002-4	Sep. 20, 2017	Sep. 19, 2018
Software BVADT	ADT_Radiated_V 8.7.08	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

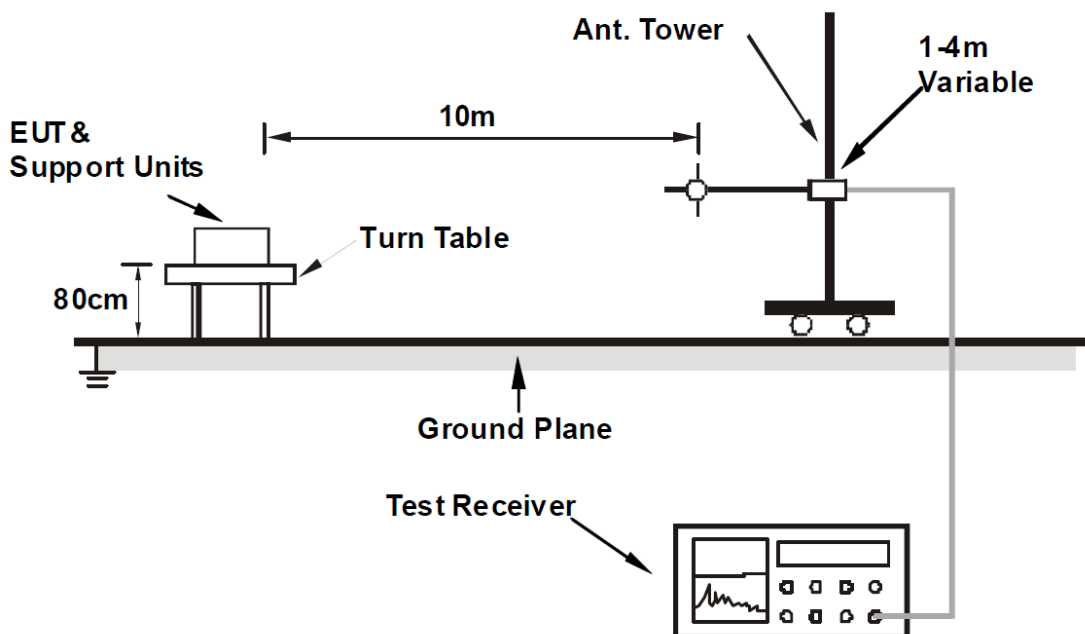
Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Chamber F room
3. The VCCI Site Registration No. is R-3252.
4. The CANADA Site Registration No. is IC 7450H-1.
5. Tested Date:Jan. 06, 2018

5.3 Test Arrangement

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is up to 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

5.4 Supplementary Information

There is not any deviation from the test standards for the test method.

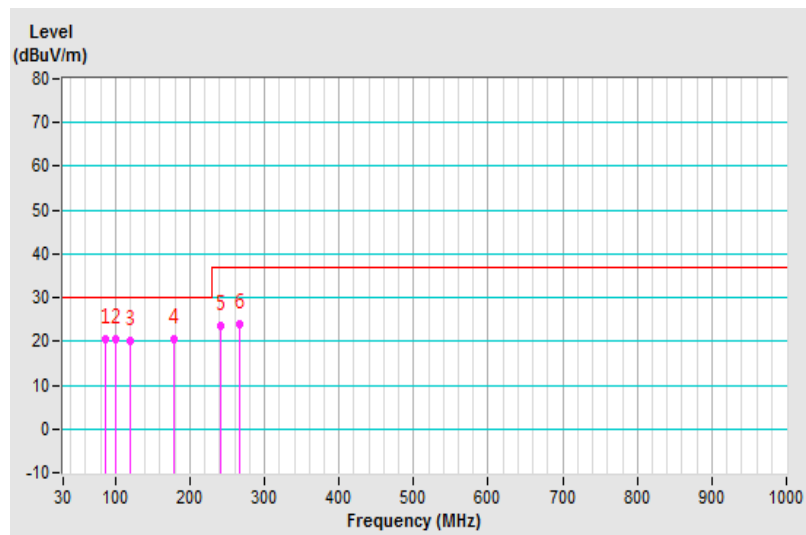
5.5 Test Results

Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input Power	DC 1.5V from battery	Environmental Conditions	22°C, 68%RH
Tested by	David Chuang		
Test Mode	Mode 1		

Antenna Polarity & Test Distance : Horizontal at 10 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	86.67	20.42 QP	30.00	-9.58	4.00 H	12	38.75	-18.33
2	99.91	20.36 QP	30.00	-9.64	4.00 H	306	37.58	-17.22
3	120.02	20.03 QP	30.00	-9.97	4.00 H	123	34.52	-14.49
4	178.26	20.48 QP	30.00	-9.52	4.00 H	277	34.02	-13.54
5	241.75	23.67 QP	37.00	-13.33	3.00 H	331	37.43	-13.76
6	267.26	24.07 QP	37.00	-12.93	4.00 H	185	36.88	-12.81

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



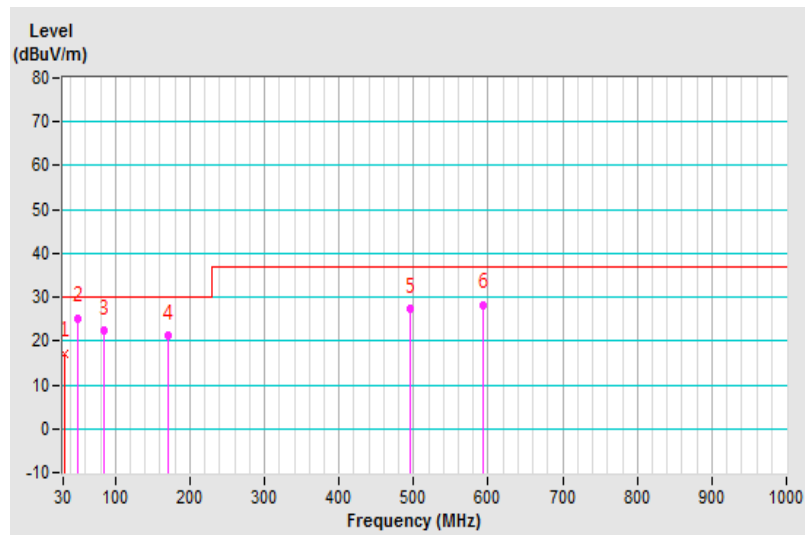
Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input Power	DC 1.5V from battery	Environmental Conditions	22°C, 68%RH
Tested by	David Chuang		
Test Mode	Mode 1		

Antenna Polarity & Test Distance : Vertical at 10 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.06	17.25 QP	30.00	-12.75	1.00 V	8	31.34	-14.09
2	49.96	25.26 QP	30.00	-4.74	3.00 V	222	38.25	-12.99
3	84.37	22.31 QP	30.00	-7.69	3.00 V	348	40.57	-18.26
4	169.85	21.28 QP	30.00	-8.72	1.00 V	302	34.09	-12.81
5	494.99	27.29 QP	37.00	-9.71	4.00 V	8	33.16	-5.87
6	593.98	28.29 QP	37.00	-8.71	3.00 V	109	31.79	-3.50

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



6 Radiated Emissions above 1 GHz

6.1 Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined
Above 3000	Peak: 69.5	Peak: 63.5	Not defined	Not defined

Radiated Emissions Limits at 3 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
1000-3000	Avg: 60	Avg: 54	Avg: 56 Peak: 76	Avg: 50 Peak: 70
Above 3000	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74

- Notes:
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Frequency Range (For unintentional radiators)

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 40GHz, whichever is lower

6.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010125	Apr. 15, 2017	Apr. 14, 2018
Pre-Amplifier Agilent	8449B	3008A01975	Feb. 26, 2017	Feb. 25, 2018
Horn Antenna SCHWARZBECK	BBHA 9120D	D123	Dec. 01, 2017	Nov. 30, 2018
RF Coaxial Cable	EMC104-SM-SM -11000	170209	Mar. 07, 2017	Mar. 06, 2018
RF Coaxial Cable	EMC104-SM-SM -6000	170207	Mar. 07, 2017	Mar. 06, 2018
RF Coaxial Cable	EMC104-SM-SM -2500	170206	Mar. 07, 2017	Mar. 06, 2018
Software BVADT	ADT_Radiated_ V8.7.08	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA
Fix tool for Boresight antenna tower	BAF-01	5	NA	NA

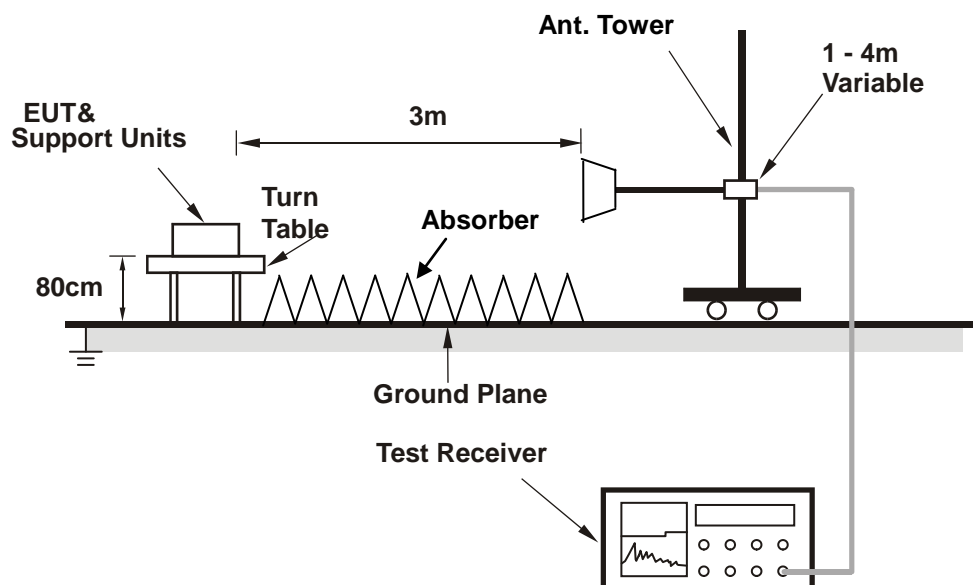
Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Chamber F room
3. Tested Date: Jan. 05, 2018

6.3 Test Arrangement

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The spectrum analyzer system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.



The test arrangement is in accordance with ANSI 63.4:2014. For the actual test configuration, please refer to the related item – Photographs of the Test Configuration

6.4 Supplementary Information

There is not any deviation from the test standards for the test method.

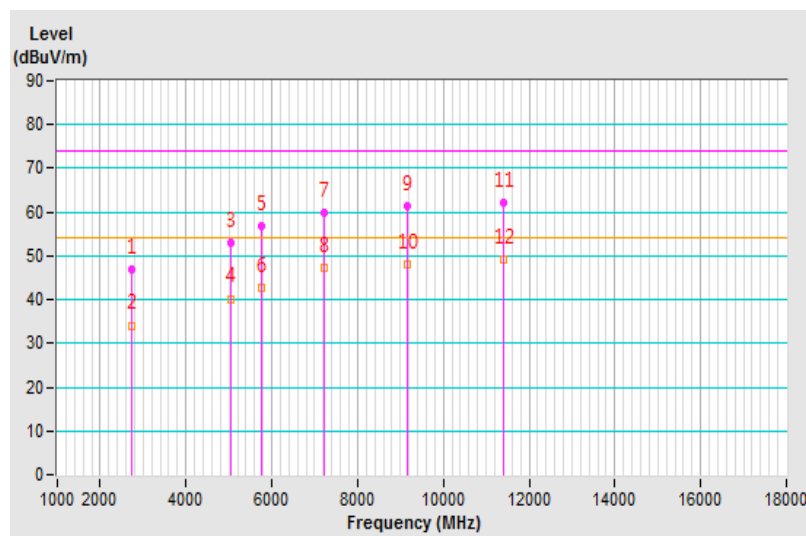
6.5 Test Results

Frequency Range	1GHz ~ 12.5GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Input Power	DC 1.5V from battery	Environmental Conditions	23°C, 73%RH
Tested by	Kevin Ko		
Test Mode	Mode 1		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2734.43	46.75 PK	74.00	-27.25	1.00 H	147	42.63	4.12
2	2734.43	34.11 AV	54.00	-19.89	1.00 H	147	29.99	4.12
3	5036.23	53.11 PK	74.00	-20.89	1.00 H	116	41.68	11.43
4	5036.23	40.22 AV	54.00	-13.78	1.00 H	116	28.79	11.43
5	5757.45	56.95 PK	74.00	-17.05	1.00 H	1	44.18	12.77
6	5757.45	42.72 AV	54.00	-11.28	1.00 H	1	29.95	12.77
7	7219.87	59.96 PK	74.00	-14.04	1.00 H	14	41.82	18.14
8	7219.87	47.17 AV	54.00	-6.83	1.00 H	14	29.03	18.14
9	9151.50	61.22 PK	74.00	-12.78	1.00 H	334	43.80	17.42
10	9151.50	48.09 AV	54.00	-5.91	1.00 H	334	30.67	17.42
11	11390.40	62.07 PK	74.00	-11.93	1.00 H	184	42.92	19.15
12	11390.40	49.11 AV	54.00	-4.89	1.00 H	184	29.96	19.15

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



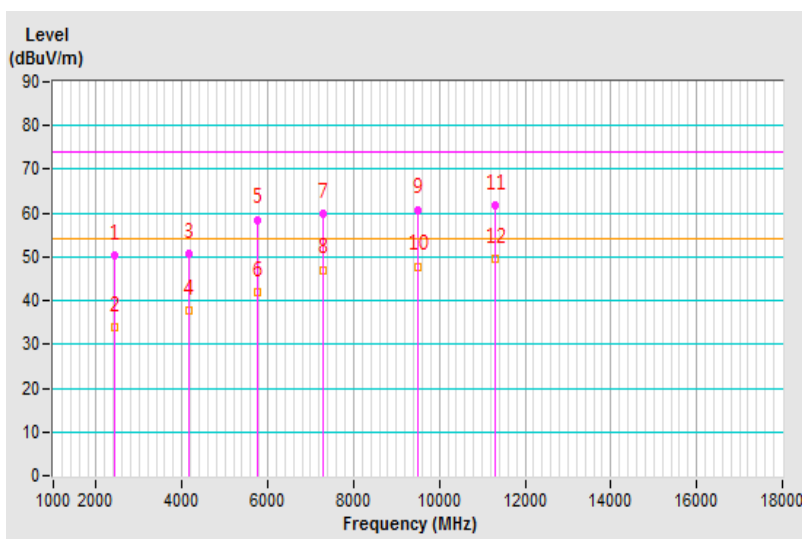
Frequency Range	1GHz ~ 12.5GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Input Power	DC 1.5V from battery	Environmental Conditions	23°C, 73%RH
Tested by	Kevin Ko		
Test Mode	Mode 1		

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2416.95	50.27 PK	74.00	-23.73	1.00 V	132	47.25	3.02
2	2416.95	33.98 AV	54.00	-20.02	1.00 V	132	30.96	3.02
3	4153.07	50.60 PK	74.00	-23.40	1.00 V	125	42.41	8.19
4	4153.07	37.67 AV	54.00	-16.33	1.00 V	125	29.48	8.19
5	5761.70	58.52 PK	74.00	-15.48	1.00 V	360	45.71	12.81
6	5761.70	41.97 AV	54.00	-12.03	1.00 V	360	29.16	12.81
7	7300.62	59.87 PK	74.00	-14.13	1.00 V	0	41.85	18.02
8	7300.62	47.06 AV	54.00	-6.94	1.00 V	0	29.04	18.02
9	9483.85	60.81 PK	74.00	-13.19	1.00 V	90	43.24	17.57
10	9483.85	47.84 AV	54.00	-6.16	1.00 V	90	30.27	17.57
11	11297.33	61.70 PK	74.00	-12.30	1.00 V	243	42.27	19.43
12	11297.33	49.41 AV	54.00	-4.59	1.00 V	243	29.98	19.43

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



7 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:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

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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