

FCC Test Report

Report No.: RF170619D01-1

FCC ID: 2AAFMRGP0045

Test Model: RGP0045

Received Date: Jun. 19, 2017

Test Date: Jun. 19 ~ 21, 2017

Issued Date: Jul. 5, 2017

Applicant: Corsair Memory, Inc.

Address: No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241,

Taiwan(R.O.C.)

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

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(R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
RF170619D01-1	Original release.	Jul. 5, 2017



1 Certificate of Conformity

Product: Wireless Keyboard

Brand: Corsair

Test Model: RGP0045

Sample Status: Engineering sample

Applicant: Corsair Memory, Inc.

Test Date: Jun. 19 ~ 21, 2017

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.249)

ANSI C63.10: 2013

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: ____Annie Chang____, Date: Jul. 5, 2017

Annie Chang / Senior Specialist

Approved by : , **Date:** Jul. 5, 2017

Rex Lai / Assistant Manager



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.249)							
FCC Clause	Test Item	Result	Remarks				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -8.76dB at 0.48203MHz.				
15.215	Channel Bandwidth Measurement	PASS	Meet the requirement.				
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -7.55dB at 45.42MHz.				

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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.77 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.38 dB
Radiated Effissions up to 1 GHz	30MHz ~ 1000MHz	5.54 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.48 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Wireless Keyboard
Brand	Corsair
Test Model	RGP0045
Status of EUT	Engineering sample
Power Supply Rating	5Vdc from host equipment by USB cable (For Wired mode and Charging mode) 3.7Vdc from battery (For Wireless mode)
Modulation Type	GFSK
Operating Frequency	2403MHz ~ 2480MHz
Number of Channel	78
Antenna Type	Printed antenna with -3.04dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	Shielded USB cable (1.9m)

Note:

1. The EUT is a Wireless Keyboard with following functions:

Function	Remark
Bluetooth	
2.4GHz GFSK	Function select by a switch All functions can't transmit simultaneously
Wired Keyboard via USB cable	72. All functions can't transmit simultaneously

2. The EUT was pre-tested with the following modes:

Mode A: Operating + Charging Mode (Powered from Notebook)

Mode B: Operating Mode (EUT Stand-alone)

Mode C: Operating + Charging Mode (Powered from Adapter)

The worst emission level was found when the EUT was tested under Mode A

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.



3.2 Description of Test Modes

78 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		
20	2422	40	2442	60	2462		



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE	APPLICABLE TO				DESCRIPTION	
MODE	RE ³ 1G	RE<1G	PLC	APCM	DESCRIPTION	
А	A		V	Operating + Charging Mode (Powered from Notebook)		
В	V	V	-	-	Operating Mode (EUT Stand-alone)	
С	-	-	√	-	Operating + Charging Mode (Powered from Adapter)	

Where

RE31G: Radiated Emission above 1GHz &

Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE AVAILABLE CHANNEL		TESTED CHANNEL	MODULATION TYPE
A & B	1 to 78	1, 39, 78	GFSK

Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE AVAILABLE CHANNEL		TESTED CHANNEL	MODULATION TYPE
A & B	1 to 78	1	GFSK

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
A & C	1 to 78	1,	GFSK

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE AVAILABLE CHANNEL		TESTED CHANNEL	MODULATION TYPE
А	1 to 78	1, 39, 78	GFSK



Test Condition:

APPLICABLE TO	EUT CONFIGUURE MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
DE240	А	25deg. C, 67%RH	120Vac, 60Hz (System)	Ian Chang
RE ³ 1G	В	25deg. C, 67%RH	3.7Vdc	Ian Chang
DE 40	Α	25deg. C, 70%RH	120Vac, 60Hz (System)	Ian Chang
RE<1G	В	25deg. C, 70%RH	3.7Vdc	Ian Chang
DI C	А	22deg. C, 73%RH	120Vac, 60Hz(System)	Ian Chang
PLC	С	26deg. C, 77%RH	120Vac, 60Hz(Adapter)	Ian Chang
APCM	Α	25deg. C, 76%RH	120Vac, 60Hz (System)	Saxon Lee



3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	BW33YM1	FCC DoC Approved	Provided by Lab
B.	AC Adapter	HTC	TC U250	N/A	N/A	Provided by Lab

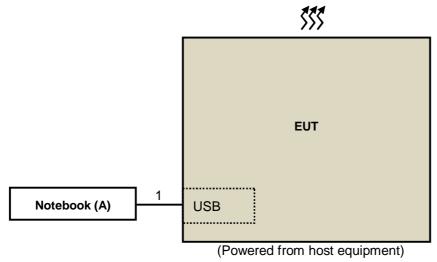
Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1.9	Υ	0	Supplied by client

Note: The core(s) is(are) originally attached to the cable(s).

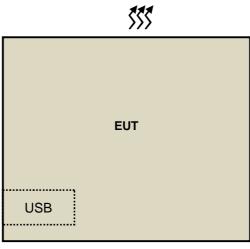
3.3.1 Configuration of System under Test

Mode A:



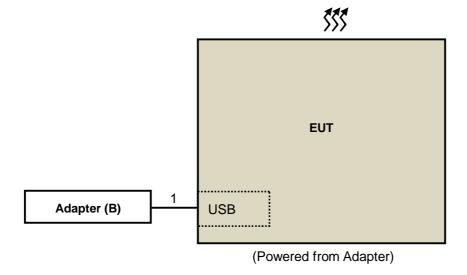


Mode B:



(Powered from battery)

Mode C:





3.4 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 Part 15, Subpart C (15.249)

ANSI C63.10-2013

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. 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.



4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 21, 2017	Feb. 20, 2018
HP Preamplifier	8449B	3008A01201	Feb. 22, 2017	Feb. 21, 2018
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 21, 2017	Feb. 20, 2018
Agilent TEST RECEIVER	N9038A	MY51210129	Feb. 08, 2017	Feb. 07, 2018
Schwarzbeck Antenna	VULB 9168	139	Dec. 13, 2016	Dec. 12, 2017
Schwarzbeck Antenna	VHBA 9123	480	May 19, 2017	May 18, 2019
Schwarzbeck Horn Antenna	BBHA-9170	212	Dec. 30, 2016	Dec. 29, 2017
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Dec. 27, 2016	Dec. 26, 2017
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF104	CABLE-CH6	Aug. 15, 2016	Aug. 14, 2017
SUHNER RF cable With 3dB PAD	SF102	Cable-CH8-3.6m	Aug. 15, 2016	Aug. 14, 2017
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 26, 2016	Jul. 25, 2017
Loop Antenna EMCI	LPA600	270	Aug. 20, 2015	Aug. 19, 2017
EMCO Horn Antenna	3115	00028257	Dec. 15, 2016	Dec. 14, 2017
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 30, 2016	Sep. 29, 2017
Anritsu Power Sensor	MA2411B	0738404	Apr. 24, 2017	Apr. 23, 2018
Anritsu Power Meter	ML2495A	0842014	Apr. 24, 2017	Apr. 23, 2018

- **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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 - 3. The test was performed in Chamber No. 6.
 - 4. The Industry Canada Reference No. IC 7450E-6.
 - 5. The FCC Site Registration No. is 447212.



4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

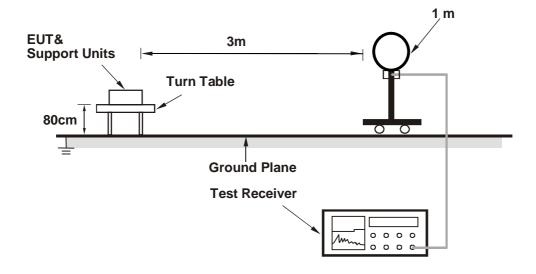
4.1.4 Deviation from Test Standard

No deviation.

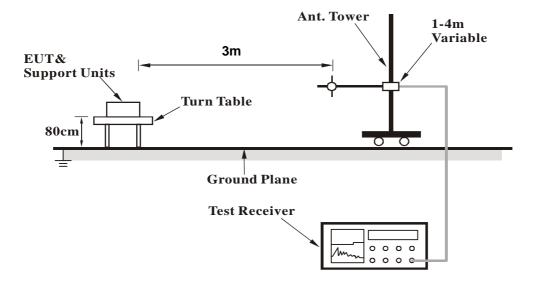


4.1.5 Test Setup

For Radiated emission below 30MHz

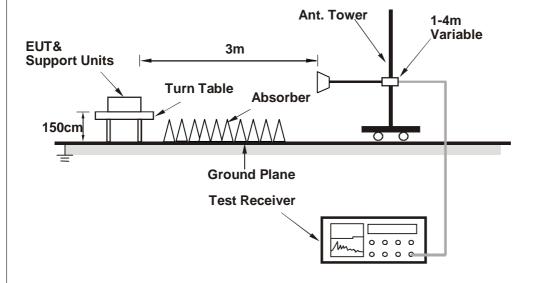


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

For Mode A:

- a. Connected the EUT with the Notebook.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. Set the EUT under charging condition continuously.

For Mode B:

Set the EUT under transmission condition continuously at specific channel frequency continuously.

For Mode C:

- a. Connected the EUT with the Adapter.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. Set the EUT under charging condition continuously.



4.1.7 Test Results

ABOVE 1GHz DATA

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode A

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	2390.00	60.66 PK	74.00	-13.34	2.10 H	16	62.56	-1.90		
2	2390.00	38.96 AV	54.00	-15.04	2.10 H	16	40.86	-1.90		
3	2400.00	58.05 PK	74.00	-15.95	2.10 H	16	59.89	-1.84		
4	2400.00	39.04 AV	54.00	-14.96	2.10 H	16	40.88	-1.84		
5	*2403.00	98.73 PK	114.00	-15.27	2.10 H	16	100.56	-1.83		
6	*2403.00	80.20 AV	94.00	-13.80	2.10 H	16	82.03	-1.83		
7	4806.00	46.72 PK	74.00	-27.28	1.47 H	296	41.56	5.16		
8	4806.00	31.15 AV	54.00	-22.85	1.47 H	296	25.99	5.16		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	2390.00	55.52 PK	74.00	-18.48	2.51 V	241	57.42	-1.90		
2	2390.00	38.96 AV	54.00	-15.04	2.51 V	241	40.86	-1.90		
3	2400.00	55.32 PK	74.00	-18.68	2.51 V	241	57.16	-1.84		
4	2400.00	38.85 AV	54.00	-15.15	2.51 V	241	40.69	-1.84		
5	*2403.00	94.20 PK	114.00	-19.80	2.51 V	241	96.03	-1.83		
6	*2403.00	76.18 AV	94.00	-17.82	2.51 V	241	78.01	-1.83		
7	4806.00	45.04 PK	74.00	-28.96	2.03 V	32	39.88	5.16		
8	4806.00	30.29 AV	54.00	-23.71	2.03 V	32	25.13	5.16		

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
- 5. " * ": Fundamental frequency.



CHANNEL	ITX Channal 30	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode A

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	98.21 PK	114.00	-15.79	2.23 H	36	99.80	-1.59	
2	*2441.00	79.37 AV	94.00	-14.63	2.23 H	36	80.96	-1.59	
3	4882.00	46.05 PK	74.00	-27.95	1.56 H	304	40.84	5.21	
4	4882.00	31.19 AV	54.00	-22.81	1.56 H	304	25.98	5.21	
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	94.53 PK	114.00	-19.47	2.55 V	247	96.12	-1.59	
2	*2441.00	76.25 AV	94.00	-17.75	2.55 V	247	77.84	-1.59	
3	4882.00	45.19 PK	74.00	-28.81	2.15 V	41	39.98	5.21	
4	4882.00	29.79 AV	54.00	-24.21	2.15 V	41	24.58	5.21	

- 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
- 5. " * ": Fundamental frequency.



CHANNEL	LTX Channel 78	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode A

		ANITENINIA	DOL ADITY	o TECT DIC	TANCE: UO	DIZONITAL	AT 0 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	TANCE: HO ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	97.68 PK	114.00	-16.32	1.98 H	52	99.02	-1.34
2	*2480.00	79.52 AV	94.00	-14.48	1.98 H	52	80.86	-1.34
3	2483.50	59.30 PK	74.00	-14.70	1.98 H	52	60.63	-1.33
4	2483.50	39.45 AV	54.00	-14.55	1.98 H	52	40.78	-1.33
5	4960.00	46.24 PK	74.00	-27.76	1.48 H	301	40.85	5.39
6	4960.00	31.37 AV	54.00	-22.63	1.48 H	301	25.98	5.39
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	93.67 PK	114.00	-20.33	2.48 V	236	95.01	-1.34
2	*2480.00	75.79 AV	94.00	-18.21	2.48 V	236	77.13	-1.34
3	2483.50	55.56 PK	74.00	-18.44	2.48 V	244	56.89	-1.33
4	2483.50	39.23 AV	54.00	-14.77	2.48 V	244	40.56	-1.33
5	4960.00	45.28 PK	74.00	-28.72	2.11 V	23	39.89	5.39

4960.00

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

-24.09

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

2.11 V

24.52

5.39

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

54.00

- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

29.91 AV



CHANNEL	ITX Channal 1		Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode B

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.59 PK	74.00	-13.41	2.04 H	10	62.49	-1.90
2	2390.00	38.52 AV	54.00	-15.48	2.04 H	10	40.42	-1.90
3	2400.00	57.91 PK	74.00	-16.09	2.04 H	10	59.75	-1.84
4	2400.00	38.78 AV	54.00	-15.22	2.04 H	10	40.62	-1.84
5	*2403.00	98.24 PK	114.00	-15.76	2.04 H	10	100.07	-1.83
6	*2403.00	79.94 AV	94.00	-14.06	2.04 H	10	81.77	-1.83
7	4806.00	46.34 PK	74.00	-27.66	1.50 H	288	41.18	5.16
8	4806.00	31.03 AV	54.00	-22.97	1.50 H	288	25.87	5.16
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.20 PK	74.00	-18.80	2.49 V	232	57.10	-1.90
2	2390.00	38.43 AV	54.00	-15.57	2.49 V	232	40.33	-1.90
3	2400.00	55.13 PK	74.00	-18.87	2.49 V	232	56.97	-1.84
4	2400.00	38.54 AV	54.00	-15.46	2.49 V	232	40.38	-1.84
5	*2403.00	94.09 PK	114.00	-19.91	2.49 V	232	95.92	-1.83
6	*2403.00	75.79 AV	94.00	-18.21	2.49 V	232	77.62	-1.83
7	4806.00	44.24 PK	74.00	-29.76	1.96 V	12	39.08	5.16
8	4806.00	29.97 AV	54.00	-24.03	1.96 V	12	24.81	5.16

- 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
- 5. " * ": Fundamental frequency.



CHANNEL	ITX Channal 30	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode B

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	97.54 PK	114.00	-16.46	2.24 H	24	99.13	-1.59
2	*2441.00	79.24 AV	94.00	-14.76	2.24 H	24	80.83	-1.59
3	4882.00	45.57 PK	74.00	-28.43	1.47 H	294	40.36	5.21
4	4882.00	30.57 AV	54.00	-23.43	1.47 H	294	25.36	5.21
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	94.25 PK	114.00	-19.75	2.53 V	239	95.84	-1.59
2	*2441.00	75.67 AV	94.00	-18.33	2.53 V	239	77.26	-1.59
3	4882.00	44.87 PK	74.00	-29.13	2.06 V	23	39.66	5.21
_								

- 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
- 5. " * ": Fundamental frequency.



CHANNEL	LTX Channel 78	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	Mode B

	ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*2480.00	97.32 PK	114.00	-16.68	1.85 H	61	98.66	-1.34
*2480.00	79.02 AV	94.00	-14.98	1.85 H	61	80.36	-1.34
2483.50	59.01 PK	74.00	-14.99	1.85 H	61	60.34	-1.33
2483.50	38.99 AV	54.00	-15.01	1.85 H	61	40.32	-1.33
4960.00	46.04 PK	74.00	-27.96	1.53 H	292	40.65	5.39
4960.00	31.25 AV	54.00	-22.75	1.53 H	292	25.86	5.39
	ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*2480.00	93.30 PK	114.00	-20.70	2.55 V	226	94.64	-1.34
*2480.00	75.50 AV	94.00	-18.50	2.55 V	226	76.84	-1.34
2483.50	55.03 PK	74.00	-18.97	2.55 V	226	56.36	-1.33
2483.50	38.79 AV	54.00	-15.21	2.55 V	226	40.12	-1.33
4960.00	44.72 PK	74.00	-29.28	2.03 V	18	39.33	5.39
	*2480.00 *2483.50 2483.50 4960.00 FREQ. (MHz) *2480.00 *2480.00 *2480.00 2483.50 2483.50	FREQ. (MHz) *2480.00 97.32 PK *2480.00 79.02 AV 2483.50 59.01 PK 2483.50 38.99 AV 4960.00 46.04 PK 4960.00 31.25 AV ANTENNA FREQ. (MHz) (MHz) *2480.00 93.30 PK *2480.00 93.30 PK *2483.50 55.03 PK 2483.50 38.79 AV	TREQ. (MHz)	FREQ. (MHz)	FREQ. (MHz)	FREQ. (MHz)	Temporary

4960.00

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

-24.58

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

2.03 V

24.03

5.39

18

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

54.00

- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

29.42 AV



BELOW 30MHz DATA

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	Mode A

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	46.25	20.13 QP	40.00	-19.87	2.09 H	196	29.37	-9.24
2	150.81	29.28 QP	43.50	-14.22	1.58 H	252	38.39	-9.11
3	272.26	21.64 QP	46.00	-24.36	1.97 H	4	29.75	-8.11
4	392.39	23.15 QP	46.00	-22.85	1.88 H	247	28.65	-5.50
5	539.93	27.45 QP	46.00	-18.55	1.08 H	131	29.80	-2.35
6	675.73	28.48 QP	46.00	-17.52	2.39 H	134	28.30	0.18
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.42	32.45 QP	40.00	-7.55	1.55 V	323	41.81	-9.36
2	90.48	23.68 QP	43.50	-19.82	2.07 V	209	38.52	-14.84
3	150.86	27.97 QP	43.50	-15.53	1.89 V	249	37.08	-9.11
4	209.94	18.28 QP	43.50	-25.22	1.47 V	292	29.64	-11.36
5	372.02	22.55 QP	46.00	-23.45	1.08 V	10	28.55	-6.00
6	471.40	25.36 QP	46.00	-20.64	2.19 V	276	29.02	-3.66

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



CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	Mode B

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.09	19.46 QP	40.00	-20.54	1.89 H	13	30.08	-10.62
2	149.60	19.91 QP	43.50	-23.59	1.88 H	186	29.06	-9.15
3	265.90	19.92 QP	46.00	-26.08	2.05 H	199	28.39	-8.47
4	355.63	21.66 QP	46.00	-24.34	1.74 H	263	28.13	-6.47
5	463.88	25.05 QP	46.00	-20.95	1.69 H	242	28.87	-3.82
6	549.39	26.39 QP	46.00	-19.61	2.21 H	159	28.53	-2.14
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.72	21.17 QP	40.00	-18.83	1.33 V	194	31.02	-9.85
2	114.58	20.15 QP	43.50	-23.35	1.87 V	56	32.40	-12.25
3	148.97	18.53 QP	43.50	-24.97	2.21 V	137	27.74	-9.21
4	289.18	20.04 QP	46.00	-25.96	1.66 V	145	27.67	-7.63
5	374.98	22.21 QP	46.00	-23.79	2.09 V	15	28.13	-5.92
6	463.35	24.55 QP	46.00	-21.45	1.87 V	161	28.40	-3.85

- 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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Fraguency (MHz)	Conducted Limit (dBuV)				
Frequency (MHz)	Quasi-peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30.0	60	50			

Note: 1. The lower limit shall apply at the transition frequencies.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100276	Apr. 10, 2017	Apr. 09, 2018
ROHDE & SCHWARZ				
Artificial Mains Network	ENV216	101197	May 22, 2017	May 21, 2018
(for EUT)				
LISN With Adapter	AD10	C10Ada-002	May 22, 2017	May 21, 2018
(for EUT)	7010	010Ada-002	Way 22, 2017	Way 21, 2010
ROHDE & SCHWARZ				
Artificial Mains Network	ESH3-Z5	100218	Nov. 23, 2016	Nov. 22, 2017
(for peripherals)				
SCHWARZBECK				
Artificial Mains Network (For	NNLK8129	8129229	May 09, 2017	May 08, 2018
EUT)				
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C10.01	Feb. 14, 2017	Feb. 13, 2018
SUHNER Terminator				
(For ROHDE & SCHWARZ	65BNC-5001	E1-011484	May 18, 2017	May 17, 2018
LISN)				
ROHDE & SCHWARZ				
Artificial Mains Network (For	ESH3-Z5	100220	Nov. 08, 2016	Nov. 07, 2017
TV EUT)				
LISN With Adapter (for TV EUT)	100220	N/A	Nov. 08, 2016	Nov. 07, 2017

Notes: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in Shielded Room No. 10.
- 3. The VCCI Site Registration No. C-1852.

^{2.} The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



4.2.3 Test Procedures

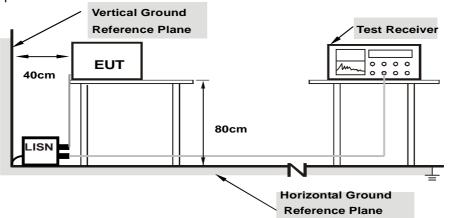
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as item 4.1.6.



4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	Mode A		

	Phase Of Power : Line (L)									
No	Frequency	Correction Factor	J		9		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19152	9.65	40.44	33.10	50.09	42.75	63.97	53.97	-13.88	-11.22
2	0.43906	9.66	27.97	18.81	37.63	28.47	57.08	47.08	-19.45	-18.61
3	1.22266	9.71	22.18	14.22	31.89	23.93	56.00	46.00	-24.11	-22.07
4	2.08594	9.74	24.48	16.89	34.22	26.63	56.00	46.00	-21.78	-19.37
5	3.26172	9.80	25.96	18.67	35.76	28.47	56.00	46.00	-20.24	-17.53
6	17.30859	9.97	23.56	17.46	33.53	27.43	60.00	50.00	-26.47	-22.57

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





Frequency Range	150kHz ~ 30MHz	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	Mode A		

	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor	_			el Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	9.67	37.75	30.82	47.42	40.49	64.08	54.08	-16.66	-13.59
2	0.26328	9.67	31.69	24.49	41.36	34.16	61.33	51.33	-19.97	-17.17
3	0.51328	9.69	28.03	20.65	37.72	30.34	56.00	46.00	-18.28	-15.66
4	3.30078	9.82	26.36	20.43	36.18	30.25	56.00	46.00	-19.82	-15.75
5	8.70703	9.93	24.94	19.75	34.87	29.68	60.00	50.00	-25.13	-20.32
6	17.54688	10.03	23.91	18.59	33.94	28.62	60.00	50.00	-26.06	-21.38

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





Frequency Range	150kHz ~ 30MHz	Liberector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	Mode C		

	Phase Of Power : Line (L)									
No	Frequency	Correction Factor		Reading Value Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.65	32.02	20.50	41.67	30.15	65.38	55.38	-23.71	-25.23
2	0.48203	9.70	36.20	27.84	45.90	37.54	56.30	46.30	-10.40	-8.76
3	0.88828	9.77	34.07	23.49	43.84	33.26	56.00	46.00	-12.16	-12.74
4	1.37109	9.83	33.27	24.15	43.10	33.98	56.00	46.00	-12.90	-12.02
5	2.46484	9.93	28.81	18.94	38.74	28.87	56.00	46.00	-17.26	-17.13
6	3.57031	10.02	26.71	17.40	36.73	27.42	56.00	46.00	-19.27	-18.58
7	18.24609	10.34	27.34	18.22	37.68	28.56	60.00	50.00	-22.32	-21.44

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

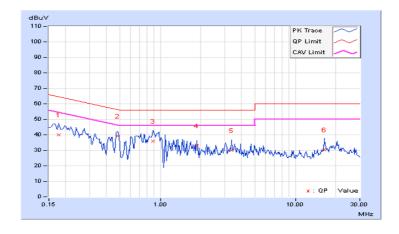




Frequency Range	150kHz ~ 30MHz	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	Mode C		

	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor	•		ading Value Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	9.69	30.46	16.29	40.15	25.98	64.61	54.61	-24.46	-28.63
2	0.48203	9.74	29.47	21.28	39.21	31.02	56.30	46.30	-17.09	-15.28
3	0.88438	9.79	26.16	17.22	35.95	27.01	56.00	46.00	-20.05	-18.99
4	1.85938	9.88	22.96	14.84	32.84	24.72	56.00	46.00	-23.16	-21.28
5	3.37891	10.08	19.86	11.76	29.94	21.84	56.00	46.00	-26.06	-24.16
6	16.44141	10.36	20.19	13.87	30.55	24.23	60.00	50.00	-29.45	-25.77

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





4.3 Channel Bandwidth

4.3.1 Test Setup



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.3.4 Deviation from Test Standard

No deviation.

4.3.5 EUT Operating Condition

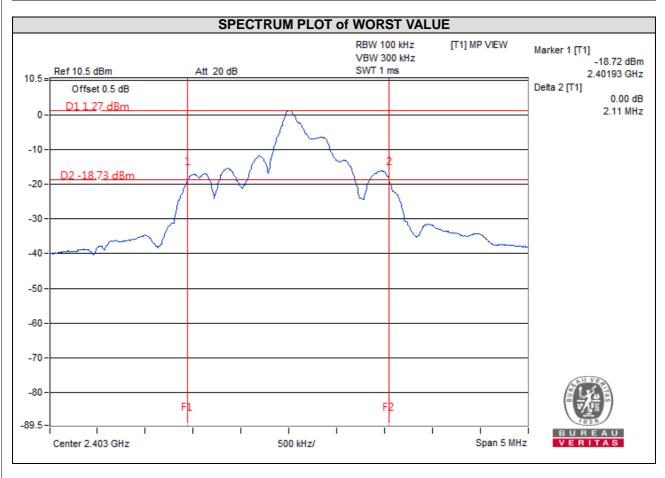
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.3.6 Test Results

Mode A

CHANNEL	FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
1	2403	2.11
39	2441	2.11
78	2480	2.10





5	Pictures of Test Arrangements
PI	lease 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 accredited and approved according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

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

Linko EMC/RF Lab

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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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