

FCC Test Report

Product Name	Portable computer
Model No	P102F
FCC ID.	E2K-P102F00401

Applicant	Dell Inc.
Address	One Dell Way, Round Rock, Texas 78682, United States.

Date of Receipt	Mar. 20, 2020
Issue Date	Jun. 17, 2020
Report No.	2030634R-RFUSP25V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

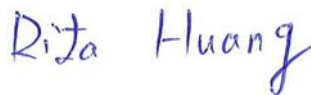
Issue Date: Jun. 17, 2020

Report No.: 2030634R-RFUSP25V00



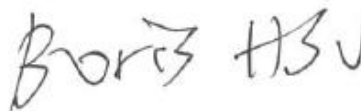
Product Name	Portable computer
Applicant	Dell Inc.
Address	One Dell Way, Round Rock, Texas 78682, United States.
Manufacturer	Dell Inc.
Model No.	P102F
FCC ID.	E2K-P102F00401
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Trade Name	DELL
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Senior Adm. Specialist / Rita Huang)

Tested By :



(Engineer / Boris Hsu)

Approved By :



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Portable computer
Trade Name	DELL
Model No.	P102F
FCC ID.	E2K-P102F00401
Frequency Range	802.11b/g/n/ax-20: 2412-2472MHz, 802.11n/ax-40: 2422-2462MHz
Number of Channels	802.11b/g/n/ax-20: 13CH, 802.11n/ax-40: 9CH
Data Rate	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 300Mbps, 802.11ax-20MHz : 17.2-286.8Mbps, 802.11ax-40MHz : 34.4-573.5Mbps
Channel Separation	802.11b/g/n/ax: 5 MHz
Type of Modulation	802.11b:DSSS, DBPSK, DQPSK, CCK 802.11g/n/ax: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Power Adapter	MFR: Chiconypower, M/N: HA65NS5-00 Input: AC 100-240V~50-60Hz 1.7A Output: 19V $\overline{=}$ 3.34A Cable Out: Shielded, 1.7m, with one ferrite core bonded

Antenna List

No.	Manufacturer	Part No. (Vendor)	Antenna Type	Peak Gain
1	SPEED	025.901MP.0001 (Main) 025.901MP.0001 (Aux)	PIFA Antenna	-0.24dBi in 2.4 GHz
2	WNC	025.901MP.0011 (Main) 025.901MP.0011 (Aux)	PIFA Antenna	-0.40dBi in 2.4 GHz

Note: The antenna of EUT is conforming to FCC 15.203.

802.11b/g/n/ax-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz	Channel 12:	2467 MHz
Channel 13:	2472 MHz						

802.11n/ax-40MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 03:	2422 MHz	Channel 04:	2427 MHz	Channel 05:	2432 MHz	Channel 06:	2437 MHz
Channel 07:	2442 MHz	Channel 08:	2447 MHz	Channel 09:	2452 MHz	Channel 10:	2457 MHz
Channel 11:	2462 MHz						

Note:

1. The EUT is a Portable computer with built-in WLAN and Bluetooth transceiver, this report for WLAN 2.4GHz.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n/ax transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
5. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report.

Test item:

	Peak Power Output	Power Density	RF antenna conducted test	6dB Bandwidth	Band Edge	Radiated Emission
SISOA-802.11b	✓					
SISOA-802.11g	✓					
SISOA-802.11n20	✓					
SISOA-802.11n40	✓					
SISOA-802.11ax20 (RU config: Full)	✓					
SISOA-802.11ax40 (RU config: Full)	✓					
SISOA-802.11ax20 (RU config: Other)	✓					
SISOA-802.11ax40 (RU config: Other)	✓					
SISOB-802.11b	✓	✓	✓	✓	✓	✓
SISOB-802.11g	✓					
SISOB-802.11n20	✓	✓			✓	
SISOB-802.11n40	✓	✓			✓	
SISOB-802.11ax20 (RU config: Full)	✓	✓			✓	
SISOB-802.11ax40 (RU config: Full)	✓	✓			✓	
SISOB-802.11ax20 (RU config: Other)	✓	✓				
SISOB-802.11ax40 (RU config: Other)	✓	✓				
MIMO-802.11n20	✓	✓	✓	✓	✓	✓
MIMO-802.11n40	✓	✓	✓	✓	✓	✓
MIMO-802.11ax20 (RU config: Full)	✓	✓	✓	✓	✓	✓
MIMO-802.11ax40 (RU config: Full)	✓	✓	✓	✓	✓	✓
MIMO-802.11ax20 (RU config: Other)	✓	✓				
MIMO-802.11ax40 (RU config: Other)	✓	✓				

Note:

1. The EUT applies to SISOA 、SISOB and MIMO mode. Each mode through the pretest, only the worst case (Please see Test item table) are shown in the test report.
2. RU config settings, please refer to each test item data.

Test Mode (2.4GHz)	Mode 1 SISO A: Transmit (802.11b_1Mbps) Mode 2 SISO A: Transmit (802.11g_6Mbps) Mode 3 SISO A: Transmit (802.11n-20BW_7.2Mbps) Mode 4 SISO A: Transmit (802.11n-40BW_15Mbps) Mode 5 SISO A: Transmit (802.11ax-20BW_8.6Mbps) Mode 6 SISO A: Transmit (802.11ax-40BW_17.2Mbps) Mode 7 SISO B: Transmit (802.11b_1Mbps) Mode 8 SISO B: Transmit (802.11g_6Mbps) Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps) Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps) Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps) Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps) Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps)
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1.2. Operational Description

The EUT is a Portable computer with a built-in 2.4GHz WLAN transceiver. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b). The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130 and 144.4Mbps in 802.11n(20M-BW) mode and 30, 60, 90, 120, 180, 240, 270 and 300 Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n), the IEEE 802.11n is Multiple In, Multiple Out" (MIMO) technology.

The device provided of twelve kinds of transmitting speed 17.2, 34.4, 51.6, 68.8, 103.2, 137.6, 154.9, 172.1, 206.5, 229.4, 258.1 and 286.8Mbps in 802.11ax(20M-BW) mode and 34.4, 68.8, 103.2, 137.6, 206.5, 275.3, 309.7, 344.1, 412.9, 458.8, 516.2 and 573.5 Mbps in 802.11ax(40M-BW) mode, the device of RF carrier is BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM (IEEE 802.11ax).

The device adapts direct sequence spread spectrum modulation. The antenna provides diversity function to improve the receiving function and the antennas to support $2(\text{Transmit}) \times 2(\text{Receive})$ MIMO technology.

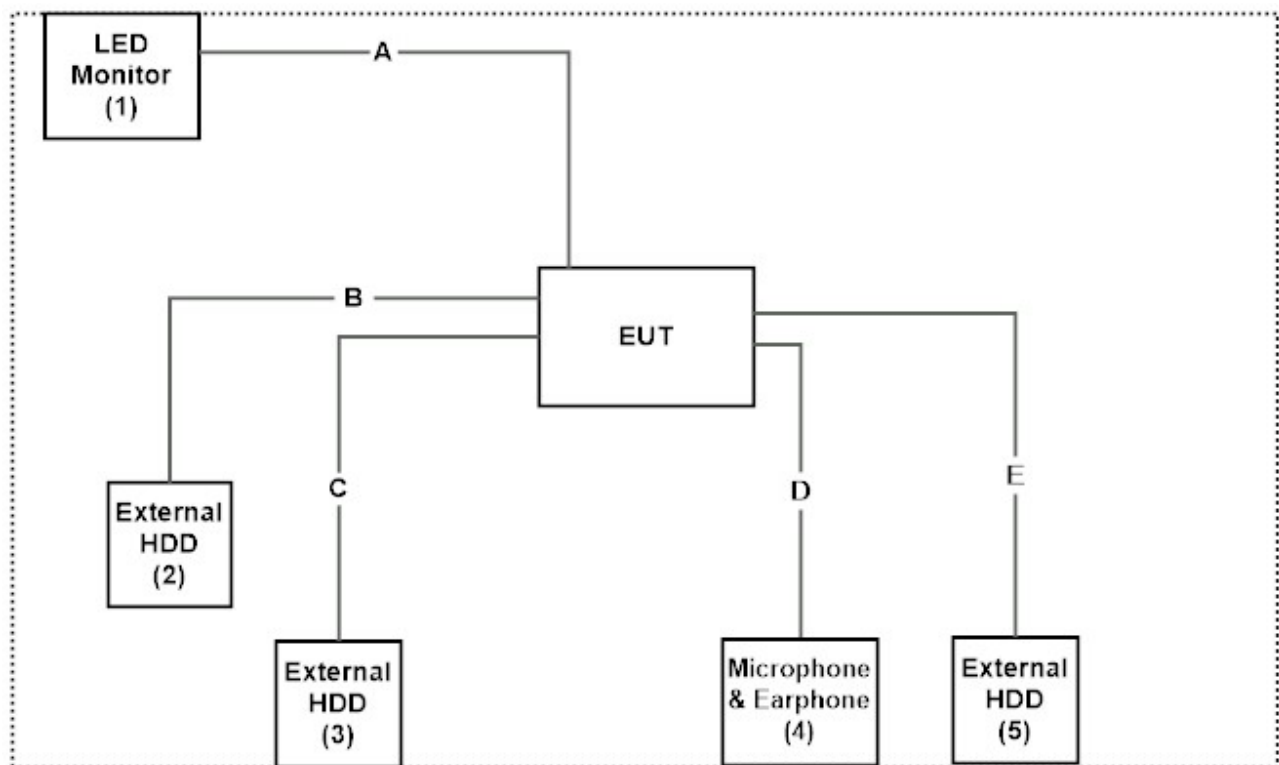
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	LED Monitor	ViewSonic	VX2257-mhd	UFY163502150	Non-Shielded, 1.8m
2	External HDD	Transcend	TS1TSJ25H3B	F21786-0125	N/A
3	External HDD	Transcend	TS1TSJ25MC	F30467-0011	N/A
4	Microphone & Earphone	RONEVER	MOE241	N/A	N/A
5	External HDD	Transcend	TS1TSJ25H3B	F21786-0019	N/A

Signal Cable Type	Signal cable Description
A	HDMI Cable Shielded, 1.8m
B	USB Cable Shielded, 0.5m
C	USB to Type-C Cable Shielded, 0.5m
D	Microphone & Earphone Cable Non-Shielded, 1.2m
E	USB Cable Shielded, 0.5m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “DRTU Ver.11.1941.0-10270” on the EUT.
3. Configure the test mode, the test channel, and the data rate.
4. Press “OK” to start the continuous Transmit.
5. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	24.9 °C
	Humidity (%RH)	10~90 %	60 %
Radiated Emission	Temperature (°C)	10~40 °C	20.5 °C
	Humidity (%RH)	10~90 %	65.2 %
Conductive	Temperature (°C)	10~40 °C	21.1 °C
	Humidity (%RH)	10~90 %	71.7 %

USA : FCC Registration Number: TW3023

Canada : IC Registration Number: 4075A

Site Description: Accredited by TAF
Accredited Number: 3023

Test Laboratory: DEKRA Testing and Certification Co., Ltd
Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,
Taiwan, R.O.C.
Phone number: 886-2-8601-3788
Fax number: 886-2-8601-3789
Email address: info.tw@dekra.com
Website: <http://www.dekra.com.tw>

1.7. List of Test Item and Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2020/04/06	2021/04/05
X	Spectrum Analyzer	Agilent	N9010A	MY53470892	2019/09/25	2020/09/24
X	Peak Power Analyzer	Keysight	8990B	MY51000410	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080003	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080004	2019/07/30	2020/07/29
X	EMI Test Receiver	R&S	ESCS 30	100369	2019/11/27	2020/11/26
X	LISN	R&S	ENV216	101105	2020/04/27	2021/04/26
X	LISN	R&S	ESH3-Z5	836679/014	2020/04/26	2021/04/25
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2019/06/20	2020/06/19

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version : DEKRA Conduction Test SystemV9.0.5.

For Radiated measurements /Site3/CB8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Test Receiver	R&S	ESR7	101602	2019/12/16	2020/12/15
X	Signal Analyzer	R&S	FSV40	101869	2019/07/04	2020/07/03
X	Loop Antenna	Teseq	HLA6121	37133	2019/10/15	2021/10/14
X	Bilog Antenna	Schaffner Chase	CBL6112B	2916	2020/01/20	2021/01/19
X	Coaxial Cable	DEKRA	L1907-001C	280280.F141.1000D	2019/07/10	2020/07/09
X	Amplifier	EMCI	EMC001330	980254	2019/08/22	2020/08/21
X	Horn Antenna	ETS-LINDGREN	3117	00228113	2020/05/01	2021/04/30
X	Coaxial Cable	DEKRA	L1907-002C	280280.F141.1000D	2019/07/10	2020/07/09
X	Amplifier	EMCI	EMC05820SE	980362	2019/06/26	2020/06/25
X	Amplifier	EMCI	EMC051845SE	980632	2019/08/08	2020/08/07
	Horn Antenna	Com-Power	AH-1840	101101	2019/10/31	2020/10/30
	Amplifier + Cable	EMCI	EMC184045SE	980369	2020/04/23	2021/04/22
	Bilog Antenna	Schaffner Chase	CBL6112B	2925	2020/02/20	2021/02/19
	Coaxial Cable	DEKRA	L1907-003C	00100A1B3A120M	2019/07/10	2020/07/09
	Amplifier	EMCI	EMC001330	980255	2020/03/17	2021/03/16
X	Filter	MICRO-TRONICS	BRM50702	G270	2019/08/08	2020/08/07
	Filter	MICRO-TRONICS	BRM50716	G196	2019/08/08	2020/08/07

Note:

1. Loop Antenna is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : DEKRA Test SystemV1.1.

1.8. Uncertainty

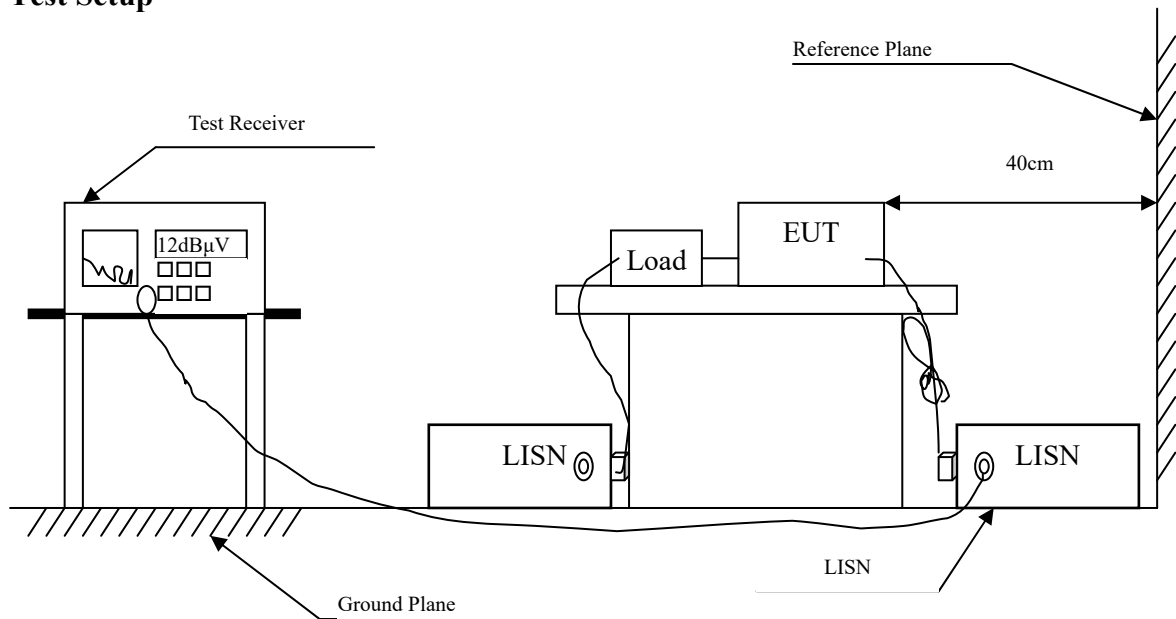
Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

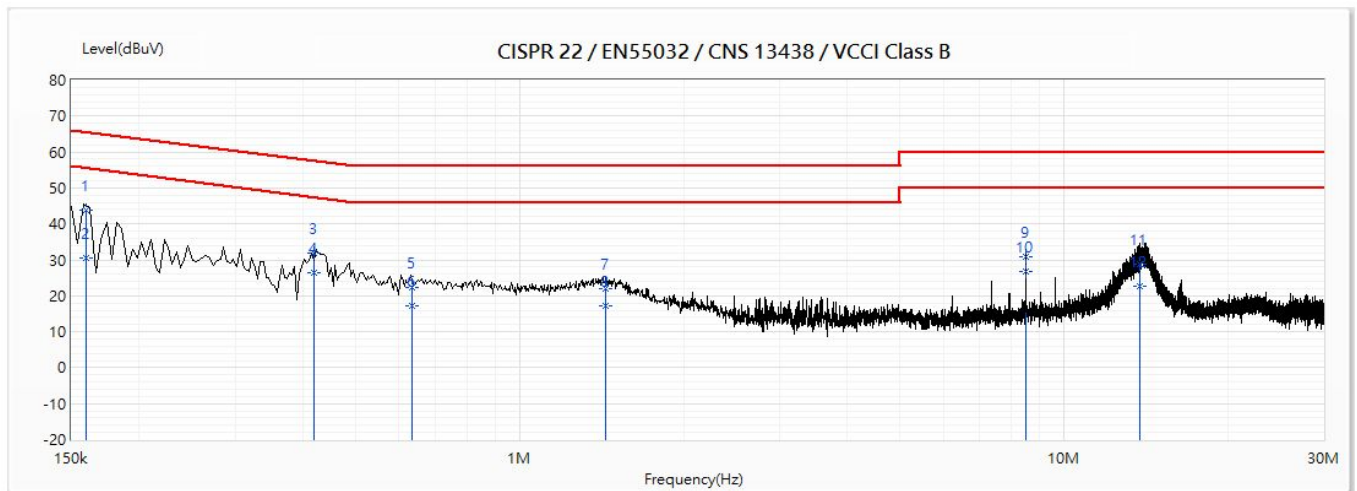
2.4. Uncertainty

$\pm 2.26\text{dB}$

2.5. Test Result of Conducted Emission

Product : Portable computer
 Test Item : Conducted Emission Test
 Test date : 2020/05/28
 Test Mode : Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2442MHz)

Line1



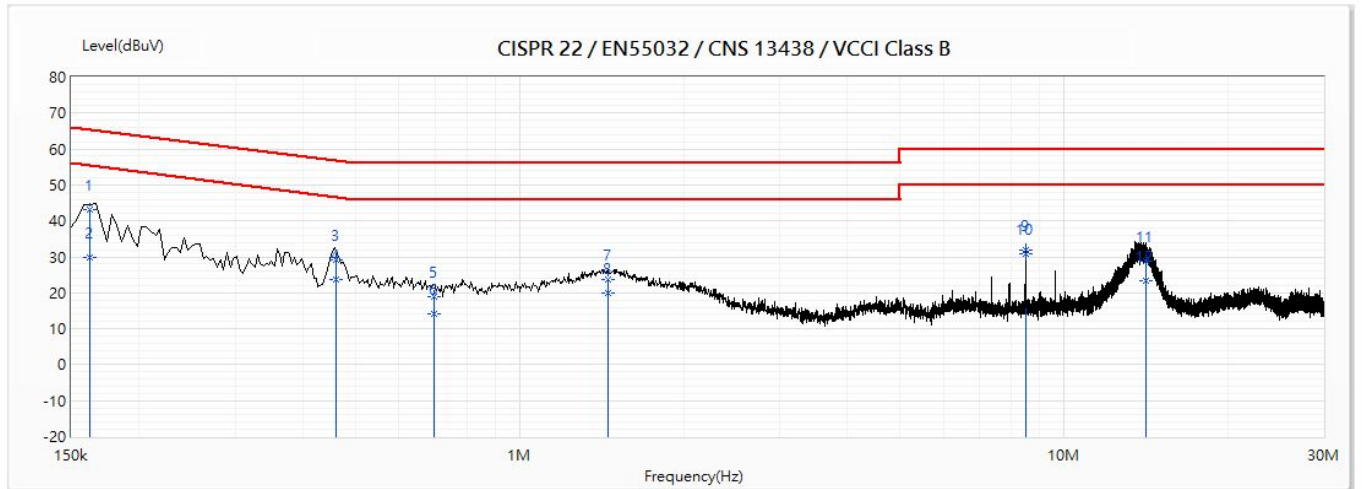
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.159	43.77	65.50	-21.73	33.98	9.80	QP
2	0.159	30.54	55.50	-24.96	20.75	9.80	AV
3	0.419	31.98	57.46	-25.49	22.19	9.79	QP
*4	0.419	26.53	47.46	-20.93	16.74	9.79	AV
5	0.633	22.29	56.00	-33.71	12.49	9.80	QP
6	0.633	17.14	46.00	-28.86	7.34	9.80	AV
7	1.441	21.81	56.00	-34.19	11.96	9.84	QP
8	1.441	17.20	46.00	-28.80	7.36	9.84	AV
9	8.502	30.90	60.00	-29.10	20.83	10.06	QP
10	8.502	26.66	50.00	-23.34	16.60	10.06	AV
11	13.794	28.68	60.00	-31.32	18.52	10.15	QP
12	13.794	22.64	50.00	-27.36	12.48	10.15	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

Product : Portable computer
 Test Item : Conducted Emission Test
 Test date : 2020/05/28
 Test Mode : Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2442MHz)

N



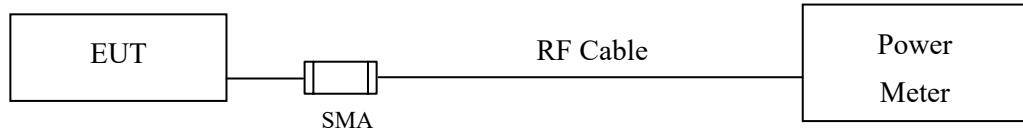
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	43.02	65.34	-22.33	33.24	9.78	QP
2	0.162	29.66	55.34	-25.68	19.88	9.78	AV
3	0.46	29.18	56.70	-27.52	19.40	9.78	QP
4	0.46	23.63	46.70	-23.07	13.85	9.78	AV
5	0.697	18.77	56.00	-37.23	8.98	9.79	QP
6	0.697	14.21	46.00	-31.79	4.42	9.79	AV
7	1.452	23.55	56.00	-32.45	13.72	9.83	QP
8	1.452	19.79	46.00	-26.21	9.96	9.83	AV
9	8.505	32.00	60.00	-28.00	21.92	10.07	QP
*10	8.505	30.92	50.00	-19.08	20.85	10.07	AV
11	14.114	28.75	60.00	-31.25	18.52	10.23	QP
12	14.114	23.35	50.00	-26.65	13.12	10.23	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

3. Peak Power Output

3.1. Test Setup



3.2. Limits

The maximum peak power shall be less 1 Watt.

3.3. Test Procedure

The EUT was tested according to C63.10:2013 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using C63.10:2013 Section 11.9.1.3 PKPM1 Peak power meter method. The maximum average conducted output power using C63.10:2013 Section 11.9.2.3 Measurement using a power meter (PM). (Measurement using a gated RF average-reading power meter).

3.4. Uncertainty

± 1.19 dB

3.5. Test Result of Peak Power Output

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 1 SISO A: Transmit (802.11b_1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)				1		
01	2412	16.78	--	--	--	21.1	<30dBm	Pass
07	2442	16.77	16.67	16.58	16.53	21.18	<30dBm	Pass
11	2462	16.76	--	--	--	21.2	<30dBm	Pass
12	2467	16.74	--	--	--	21.3	<30dBm	Pass
13	2472	14.42	--	--	--	17.28	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 2 SISO A: Transmit (802.11g_6Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54	6		
		Measurement Level (dBm)										
01	2412	16.82	--	--	--	--	--	--	--	22.34	<30dBm	Pass
07	2442	16.86	16.76	16.69	16.62	16.52	16.45	16.4	16.35	22.43	<30dBm	Pass
11	2462	14.9	--	--	--	--	--	--	--	20.43	<30dBm	Pass
12	2467	13.85	--	--	--	--	--	--	--	19.5	<30dBm	Pass
13	2472	11.81	--	--	--	--	--	--	--	22.89	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 3 SISO A: Transmit (802.11n-20BW_7.2Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT0		
		Measurement Level (dBm)										
01	2412	16.83	--	--	--	--	--	--	--	21.95	<30dBm	Pass
07	2442	16.86	16.82	16.79	16.72	16.67	16.58	16.52	16.43	22	<30dBm	Pass
11	2462	16.9	--	--	--	--	--	--	--	21.77	<30dBm	Pass
12	2467	14.99	--	--	--	--	--	--	--	20.06	<30dBm	Pass
13	2472	11.89	--	--	--	--	--	--	--	22.99	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 4 SISO A: Transmit (802.11n-40BW_15Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT0		
		Measurement Level (dBm)										
03	2422	16.83	--	--	--	--	--	--	--	22.51	<30dBm	Pass
07	2442	16.79	16.7	16.66	16.63	16.58	16.5	16.46	16.38	22.79	<30dBm	Pass
09	2452	15.48	--	--	--	--	--	--	--	21.48	<30dBm	Pass
10	2457	12.47	--	--	--	--	--	--	--	20.26	<30dBm	Pass
11	2462	11.92	--	--	--	--	--	--	--	22.79	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 5 SISO A: Transmit (802.11ax-20BW_8.6Mbps)

RU config: Full

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0						
01	2412	16.84	--	--	--	--	--	--	--	--	--	--	22.13	<30dBm	Pass			
07	2442	16.99	16.91	16.85	16.76	16.7	16.63	16.58	16.55	16.45	16.41	16.36	16.29	22.3	<30dBm	Pass		
11	2462	16.37	--	--	--	--	--	--	--	--	--	--	21.64	<30dBm	Pass			
12	2467	11.5	--	--	--	--	--	--	--	--	--	--	17.03	<30dBm	Pass			
13	2472	11.49	--	--	--	--	--	--	--	--	--	--	22.52	<30dBm	Pass			

RU config: Other

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Result
		Average Power													Peak Power	Required Limit	
		For different Data Rate															
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0			
2412	26/0	16.94	--	--	--	--	--	--	--	--	--	--	--	22.38	<30dBm	Pass	
	52/37	16.98	--	--	--	--	--	--	--	--	--	--	--	22.1	<30dBm	Pass	
	106/53	16.92	--	--	--	--	--	--	--	--	--	--	--	22.04	<30dBm	Pass	
2472	26/8	11.01	--	--	--	--	--	--	--	--	--	--	--	22.67	<30dBm	Pass	
	52/40	11.42	--	--	--	--	--	--	--	--	--	--	--	23.6	<30dBm	Pass	
	106/54	11.48	--	--	--	--	--	--	--	--	--	--	--	23.59	<30dBm	Pass	

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 6 SISO A: Transmit (802.11ax-40BW_17.2Mbps)

RU config: Full

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0						
03	2422	16.98	--	--	--	--	--	--	--	--	--	--	22.72	<30dBm	Pass			
07	2442	16.92	16.84	16.81	16.72	16.65	16.62	16.52	16.47	16.37	16.34	16.28	16.23	23.11	<30dBm	Pass		
09	2452	14.92	--	--	--	--	--	--	--	--	--	--	--	21.16	<30dBm	Pass		
10	2457	12.36	--	--	--	--	--	--	--	--	--	--	--	20.01	<30dBm	Pass		
11	2462	11.82	--	--	--	--	--	--	--	--	--	--	--	22.6	<30dBm	Pass		

RU config: Other

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0				
2422	242/61	16.91	--	--	--	--	--	--	--	--	--	--	--	23.15	<30dBm	Pass		
2462	242/62	11.89	--	--	--	--	--	--	--	--	--	--	--	23.94	<30dBm	Pass		

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11	1		
		Measurement Level (dBm)						
01	2412	16.9	--	--	--	21.2	<30dBm	Pass
07	2442	16.93	16.89	16.86	16.82	21.3	<30dBm	Pass
11	2462	16.9	--	--	--	21.32	<30dBm	Pass
12	2467	16.92	--	--	--	21.31	<30dBm	Pass
13	2472	15.4	--	--	--	18.27	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 8 SISO B: Transmit (802.11g_6Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54	6		
		Measurement Level (dBm)										
01	2412	16.91	--	--	--	--	--	--	--	22.37	<30dBm	Pass
07	2442	16.93	16.9	16.86	16.79	16.75	16.68	16.63	16.57	22.45	<30dBm	Pass
11	2462	15.38	--	--	--	--	--	--	--	21.19	<30dBm	Pass
12	2467	13.94	--	--	--	--	--	--	--	19.54	<30dBm	Pass
13	2472	11.91	--	--	--	--	--	--	--	22.94	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT0		
		Measurement Level (dBm)										
01	2412	16.91	--	--	--	--	--	--	--	22	<30dBm	Pass
07	2442	16.95	16.91	16.87	16.82	16.72	16.69	16.59	16.54	22.27	<30dBm	Pass
11	2462	16.96	--	--	--	--	--	--	--	21.84	<30dBm	Pass
12	2467	14.5	--	--	--	--	--	--	--	19.77	<30dBm	Pass
13	2472	12.36	--	--	--	--	--	--	--	23.14	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT0		
		Measurement Level (dBm)										
03	2422	16.97	--	--	--	--	--	--	--	22.56	<30dBm	Pass
07	2442	16.85	16.8	16.76	16.72	16.64	16.61	16.58	16.54	22.86	<30dBm	Pass
09	2452	15.96	--	--	--	--	--	--	--	22.07	<30dBm	Pass
10	2457	12.86	--	--	--	--	--	--	--	20.55	<30dBm	Pass
11	2462	12.34	--	--	--	--	--	--	--	22.84	<30dBm	Pass

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps)

RU config: Full

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0						
01	2412	16.99	--	--	--	--	--	--	--	--	--	--	22.22	<30dBm	Pass			
07	2442	17	16.91	16.88	16.84	16.74	16.65	16.62	16.57	16.5	16.41	16.36	16.28	22.36	<30dBm	Pass		
11	2462	16.49	--	--	--	--	--	--	--	--	--	--	21.76	<30dBm	Pass			
12	2467	14.94	--	--	--	--	--	--	--	--	--	--	20.25	<30dBm	Pass			
13	2472	11.9	--	--	--	--	--	--	--	--	--	--	22.83	<30dBm	Pass			

RU config: Other

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Result
		Average Power													Peak Power	Required Limit	
		For different Data Rate															
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0			
2412	26/0	16.95	--	--	--	--	--	--	--	--	--	--	--	22.42	<30dBm	Pass	
	52/37	16.98	--	--	--	--	--	--	--	--	--	--	--	22.13	<30dBm	Pass	
	106/53	16.94	--	--	--	--	--	--	--	--	--	--	--	22.05	<30dBm	Pass	
2472	26/8	11.59	--	--	--	--	--	--	--	--	--	--	--	23.41	<30dBm	Pass	
	52/40	11.99	--	--	--	--	--	--	--	--	--	--	--	23.62	<30dBm	Pass	
	106/54	11.9	--	--	--	--	--	--	--	--	--	--	--	23.68	<30dBm	Pass	

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps)

RU config: Full

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0				
03	2422	16.99	--	--	--	--	--	--	--	--	--	--	--	22.77	<30dBm	Pass		
07	2442	16.49	16.43	16.33	16.29	16.26	16.23	16.15	16.06	16.02	15.92	15.85	15.78	22.42	<30dBm	Pass		
09	2452	15.42	--	--	--	--	--	--	--	--	--	--	--	21.86	<30dBm	Pass		
10	2457	12.41	--	--	--	--	--	--	--	--	--	--	--	20.39	<30dBm	Pass		
11	2462	11.9	--	--	--	--	--	--	--	--	--	--	--	22.66	<30dBm	Pass		

RU config: Other

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0				
2422	242/61	16.99	--	--	--	--	--	--	--	--	--	--	--	23.25	<30dBm	Pass		
2462	242/62	11.97	--	--	--	--	--	--	--	--	--	--	--	23.96	<30dBm	Pass		

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps)

Chain A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	HT8		
		Measurement Level (dBm)										
01	2412	13.89	--	--	--	--	--	--	--	19.13	<30dBm	Pass
07	2442	13.91	13.84	13.76	13.69	13.62	13.57	13.54	13.48	19.13	<30dBm	Pass
11	2462	13.88	--	--	--	--	--	--	--	19.15	<30dBm	Pass
12	2467	11.93	--	--	--	--	--	--	--	17.12	<30dBm	Pass
13	2472	8.96	--	--	--	--	--	--	--	20.11	<30dBm	Pass

Chain B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	HT8		
		Measurement Level (dBm)										
01	2412	13.85	--	--	--	--	--	--	--	19.02	<30dBm	Pass
07	2442	13.88	13.84	13.74	13.71	13.67	13.59	13.56	13.49	19.12	<30dBm	Pass
11	2462	13.91	--	--	--	--	--	--	--	19.12	<30dBm	Pass
12	2467	11.9	--	--	--	--	--	--	--	17.2	<30dBm	Pass
13	2472	7.93	--	--	--	--	--	--	--	18.99	<30dBm	Pass

Chain A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Peak Power Output (dBm)	Limit (dBm)	Result
01	2412	HT8	19.13	19.02	22.09	<30dBm	Pass
07	2442	HT8	19.13	19.12	22.14	<30dBm	Pass
11	2462	HT8	19.15	19.12	22.15	<30dBm	Pass
12	2467	HT8	17.12	17.20	20.17	<30dBm	Pass
13	2472	HT8	20.11	18.99	22.60	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps)

Chain A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	HT8		
		Measurement Level (dBm)										
03	2422	13.95	--	--	--	--	--	--	--	19.99	<30dBm	Pass
07	2442	13.88	13.8	13.76	13.72	13.62	13.56	13.48	13.4	19.8	<30dBm	Pass
09	2452	13.95	--	--	--	--	--	--	--	23.91	<30dBm	Pass
10	2457	7.96	--	--	--	--	--	--	--	18.52	<30dBm	Pass
11	2462	10.46	--	--	--	--	--	--	--	16.91	<30dBm	Pass

Chain B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	HT8		
		Measurement Level (dBm)										
03	2422	13.88	--	--	--	--	--	--	--	19.48	<30dBm	Pass
07	2442	13.85	13.79	13.75	13.68	13.61	13.51	13.48	13.4	19.83	<30dBm	Pass
09	2452	13.85	--	--	--	--	--	--	--	23.35	<30dBm	Pass
10	2457	7.94	--	--	--	--	--	--	--	18.87	<30dBm	Pass
11	2462	10.46	--	--	--	--	--	--	--	16.34	<30dBm	Pass

Chain A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Peak Power Output (dBm)	Limit (dBm)	Result
03	2422	HT8	19.99	19.48	22.75	<30dBm	Pass
07	2442	HT8	19.80	19.83	22.83	<30dBm	Pass
09	2452	HT8	23.91	23.35	26.65	<30dBm	Pass
10	2457	HT8	18.52	18.87	21.71	<30dBm	Pass
11	2462	HT8	16.91	16.34	19.64	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)

RU config: Full Chain A

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0				
01	2412	13.99	--	--	--	--	--	--	--	--	--	--	--	19.11	<30dBm	Pass		
07	2442	13.92	13.83	13.75	13.72	13.65	13.58	13.5	13.41	13.34	13.25	13.15	13.08	19.12	<30dBm	Pass		
11	2462	13.95	--	--	--	--	--	--	--	--	--	--	--	19.22	<30dBm	Pass		
12	2467	10.93	--	--	--	--	--	--	--	--	--	--	--	16.39	<30dBm	Pass		
13	2472	7.99	--	--	--	--	--	--	--	--	--	--	--	18.7	<30dBm	Pass		

RU config: Full Chain B

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Required Limit	Result
		Average Power													Peak Power			
		For different Data Rate																
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0						
01	2412	13.97	--	--	--	--	--	--	--	--	--	--	19.45	<30dBm	Pass			
07	2442	13.97	13.94	13.91	13.87	13.84	13.81	13.76	13.7	13.62	13.58	13.51	13.47	19.22	<30dBm	Pass		
11	2462	13.91	--	--	--	--	--	--	--	--	--	--	19.43	<30dBm	Pass			
12	2467	10.99	--	--	--	--	--	--	--	--	--	--	16.5	<30dBm	Pass			
13	2472	7.99	--	--	--	--	--	--	--	--	--	--	18.83	<30dBm	Pass			

RU config: Full Chain A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
01	2412	MCS0	19.11	19.45	22.29	<30dBm	Pass
07	2442	MCS0	19.12	19.22	22.18	<30dBm	Pass
11	2462	MCS0	19.22	19.43	22.34	<30dBm	Pass
12	2467	MCS0	16.39	16.50	19.46	<30dBm	Pass
13	2472	MCS0	18.70	18.83	21.78	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \cdot \log_{10}(\text{Chain A (mW)} + \text{Chain B (mW)})$

RU config: Other Chain A

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Peak Power	Required Limit	Result
		Average Power																	
		For different Data Rate																	
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0					
2412	26/0	13.99	--	--	--	--	--	--	--	--	--	--	--	23.93	<30dBm	Pass			
	52/37	13.96	--	--	--	--	--	--	--	--	--	--	--	24	<30dBm	Pass			
	106/53	13.91	--	--	--	--	--	--	--	--	--	--	--	24.11	<30dBm	Pass			
2472	26/8	7.98	--	--	--	--	--	--	--	--	--	--	--	20.25	<30dBm	Pass			
	52/40	7.95	--	--	--	--	--	--	--	--	--	--	--	20.15	<30dBm	Pass			
	106/54	7.93	--	--	--	--	--	--	--	--	--	--	--	20.81	<30dBm	Pass			

RU config: Other Chain B

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Peak Power	Required Limit	Result
		Average Power																	
		For different Data Rate																	
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0					
2412	26/0	13.95	--	--	--	--	--	--	--	--	--	--	--	23.81	<30dBm	Pass			
	52/37	13.92	--	--	--	--	--	--	--	--	--	--	--	23.91	<30dBm	Pass			
	106/53	13.99	--	--	--	--	--	--	--	--	--	--	--	24.05	<30dBm	Pass			
2472	26/8	7.89	--	--	--	--	--	--	--	--	--	--	--	20.24	<30dBm	Pass			
	52/40	7.92	--	--	--	--	--	--	--	--	--	--	--	20.16	<30dBm	Pass			
	106/54	7.89	--	--	--	--	--	--	--	--	--	--	--	20.12	<30dBm	Pass			

RU config: Other Chain A+B

Channel	Frequency (MHz)	RU settin	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	26/0	23.93	23.81	26.88	<30dBm	Pass
		52/37	24.00	23.91	26.97	<30dBm	Pass
		106/53	24.11	24.05	27.09	<30dBm	Pass
13	2472	26/8	20.25	20.24	23.26	<30dBm	Pass
		52/40	20.15	20.16	23.17	<30dBm	Pass
		106/54	20.81	20.12	23.49	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \cdot \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)})$

Product : Portable computer
 Test Item : Peak Power Output
 Test Date : 2020/05/14
 Test Mode : Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps)

RU config: Full Chain A

Channel No	Frequency (MHz)	Peak Power Output (dBm)															
		Average Power													Peak Power	Required Limit	Result
		For different Data Rate															
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0					
03	2422	13.95	--	--	--	--	--	--	--	--	--	--	19.95	<30dBm	Pass		
07	2442	13.94	13.91	13.84	13.74	13.64	13.59	13.52	13.46	13.43	13.39	13.35	13.29	20.26	<30dBm	Pass	
09	2452	13.94	--	--	--	--	--	--	--	--	--	--	--	20.09	<30dBm	Pass	
10	2457	7.44	--	--	--	--	--	--	--	--	--	--	--	15.59	<30dBm	Pass	
11	2462	12	--	--	--	--	--	--	--	--	--	--	--	22.18	<30dBm	Pass	

RU config: Full Chain B

Channel No	Frequency (MHz)	Peak Power Output (dBm)															Peak Power	Required Limit	Result
		Average Power																	
		For different Data Rate																	
MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0							
03	2422	13.96	--	--	--	--	--	--	--	--	--	--	--	19.77	<30dBm	Pass			
07	2442	13.92	13.85	13.8	13.76	13.66	13.57	13.49	13.43	13.36	13.33	13.24	13.19	20.32	<30dBm	Pass			
09	2452	13.98	--	--	--	--	--	--	--	--	--	--	--	20.12	<30dBm	Pass			
10	2457	7.41	--	--	--	--	--	--	--	--	--	--	--	15.63	<30dBm	Pass			
11	2462	11.98	--	--	--	--	--	--	--	--	--	--	--	21.97	<30dBm	Pass			

RU config: Full Chain A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
03	2422	MCS0	19.95	19.77	22.87	<30dBm	Pass
07	2442	MCS0	20.26	20.32	23.30	<30dBm	Pass
09	2452	MCS0	20.09	20.12	23.12	<30dBm	Pass
10	2457	MCS0	15.59	15.63	18.62	<30dBm	Pass
11	2462	MCS0	22.18	21.97	25.09	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

RU config: Other Chain A

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Peak Power	Required Limit	Result
		Average Power																	
		For different Data Rate																	
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0					
2422	242/61	13.99	--	--	--	--	--	--	--	--	--	--	--	19.58	<30dBm	Pass			
2462	242/62	11.88	--	--	--	--	--	--	--	--	--	--	--	23.03	<30dBm	Pass			

RU config: Other Chain B

Frequency (MHz)	RU setting	Peak Power Output (dBm)															Peak Power	Required Limit	Result
		Average Power																	
		For different Data Rate																	
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS0					
2422	242/61	13.93	--	--	--	--	--	--	--	--	--	--	--	19.48	<30dBm	Pass			
2462	242/62	11.94	--	--	--	--	--	--	--	--	--	--	--	23.37	<30dBm	Pass			

RU config: Other Chain A+B

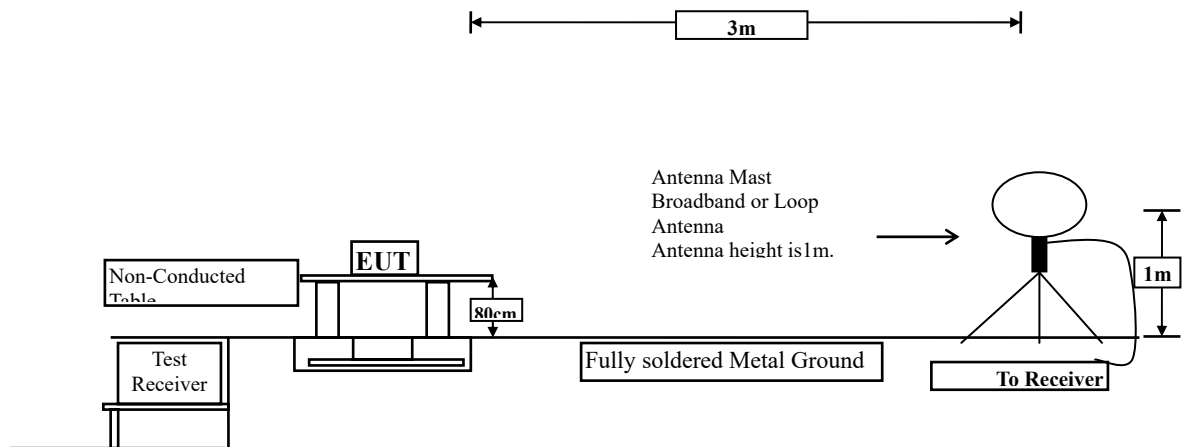
Channel	Frequency (MHz)	RU settin	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	242/61	19.58	19.48	22.54	<30dBm	Pass
11	2462	242/62	23.03	23.37	26.21	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

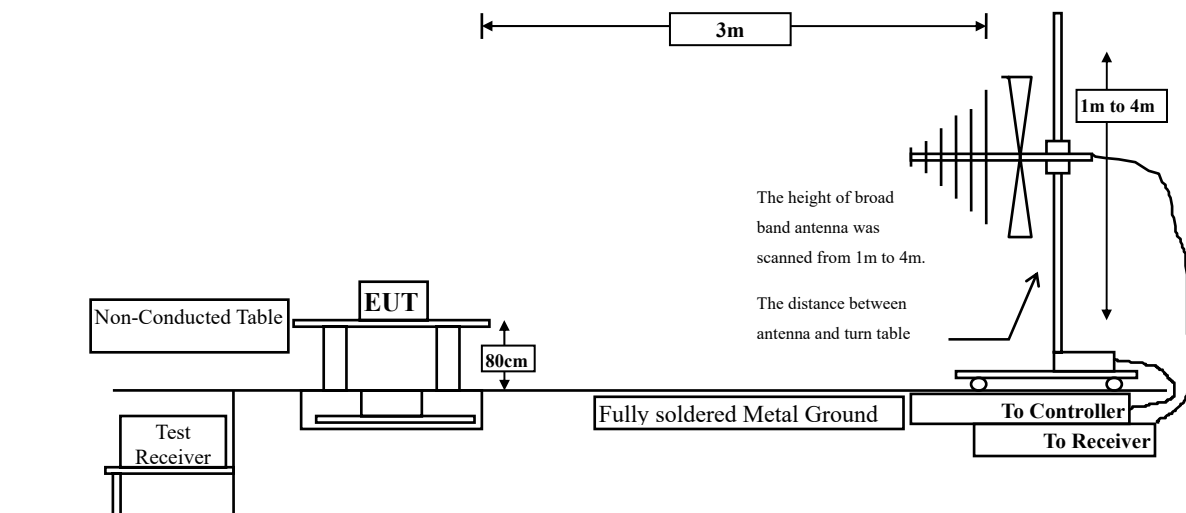
4. Radiated Emission

4.1. Test Setup

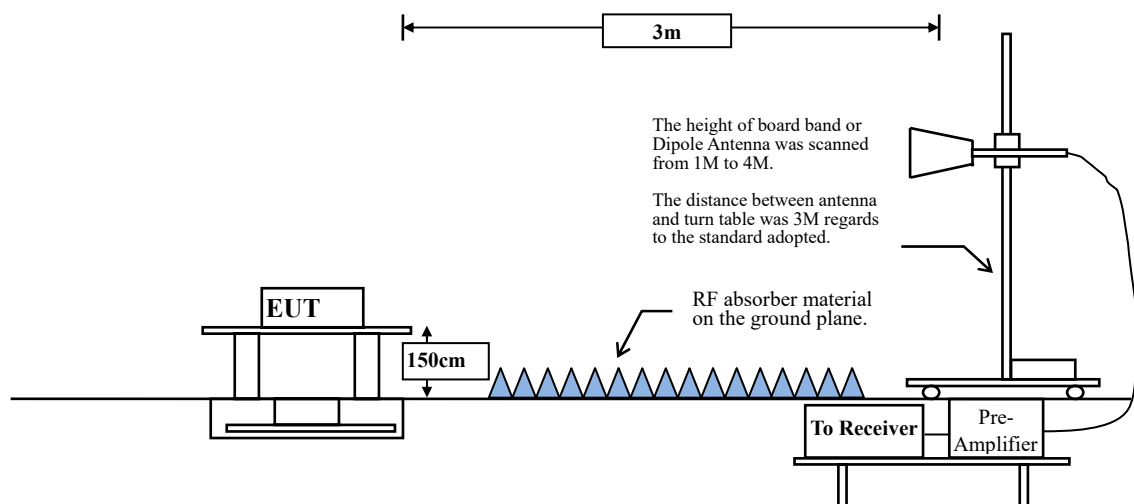
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.2. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

- Remarks:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

$VBW = 10\text{Hz}$, when duty cycle $\geq 98\%$

$VBW \geq 1/T$, when duty cycle $< 98\%$

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11 b-SISOB	97.13	8.3478	120	500
802.11 n20-SISOB	98.79	24.8043	40	10
802.11 n40-SISOB	98.99	36.8840	27	10
802.11ax20-SISOB	98.50	24.7101	40	10
802.11 ax40-SISOB	98.39	18.6232	54	10
802.11 n20-MIMO	99.15	18.5507	54	10
802.11 n40-MIMO	95.91	8.8406	113	500
802.11ax20-MIMO	98.78	18.6957	53	10
802.11 ax40-MIMO	95.35	9.2029	109	500

Note: Duty Cycle Refer to Section 9

4.4. Uncertainty

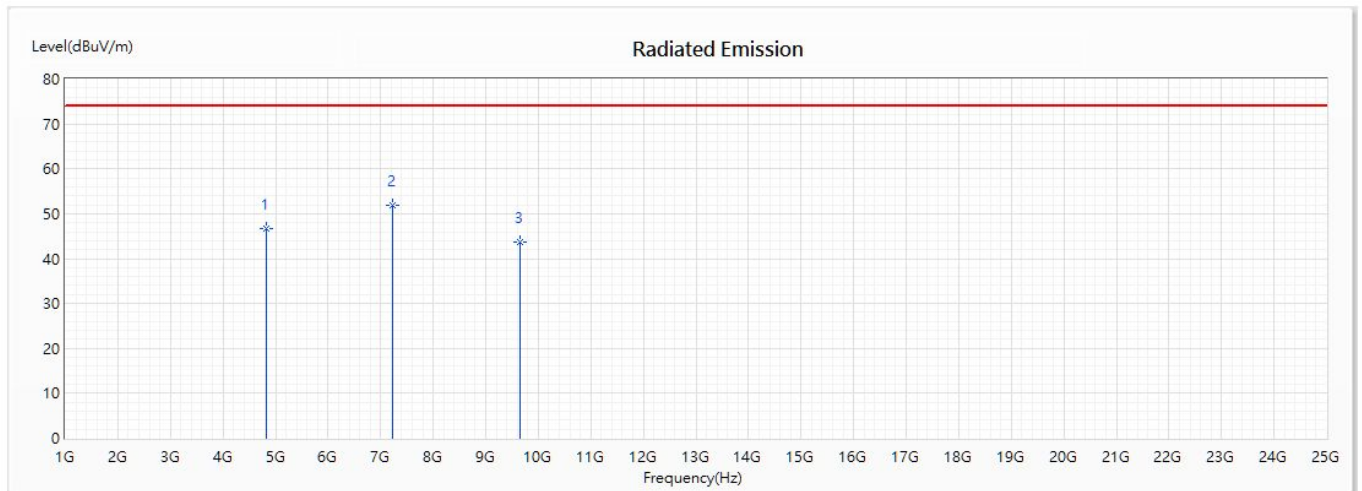
$\pm 4.08\text{ dB}$ above 1GHz

$\pm 4.22\text{ dB}$ below 1GHz

4.5. Test Result of Radiated Emission

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2412 MHz)
 Test Date : 2020/05/08

HORIZONTAL



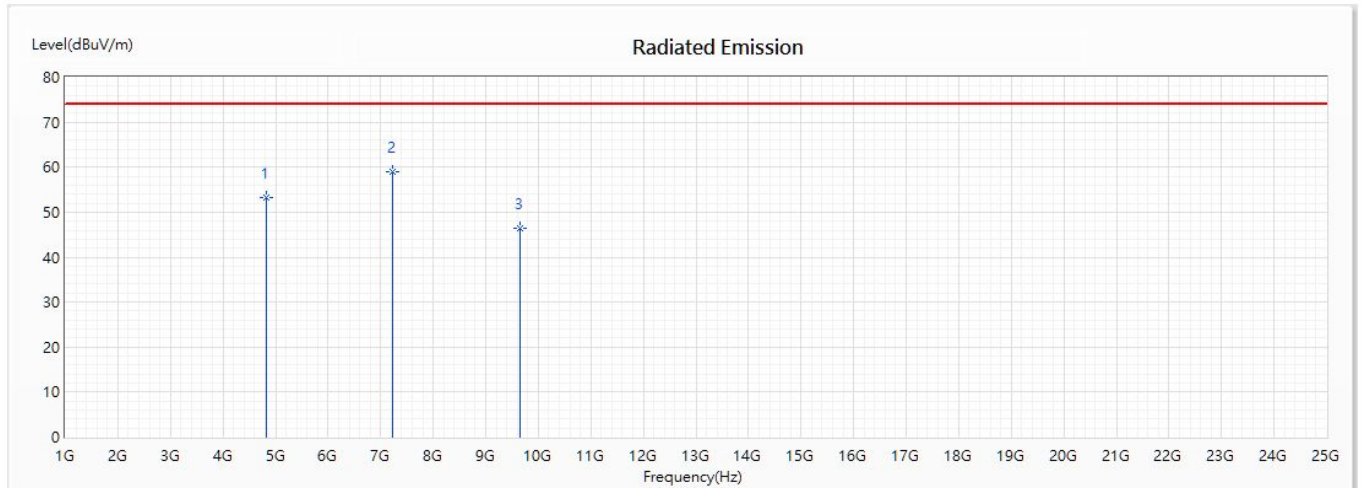
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	46.79	74.00	-27.21	58.78	-11.99	PK
* 2	7236	51.81	74.00	-22.19	64.77	-12.96	PK
3	9648	43.78	74.00	-30.22	56.88	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2412 MHz)
 Test Date : 2020/05/08

VERTICAL



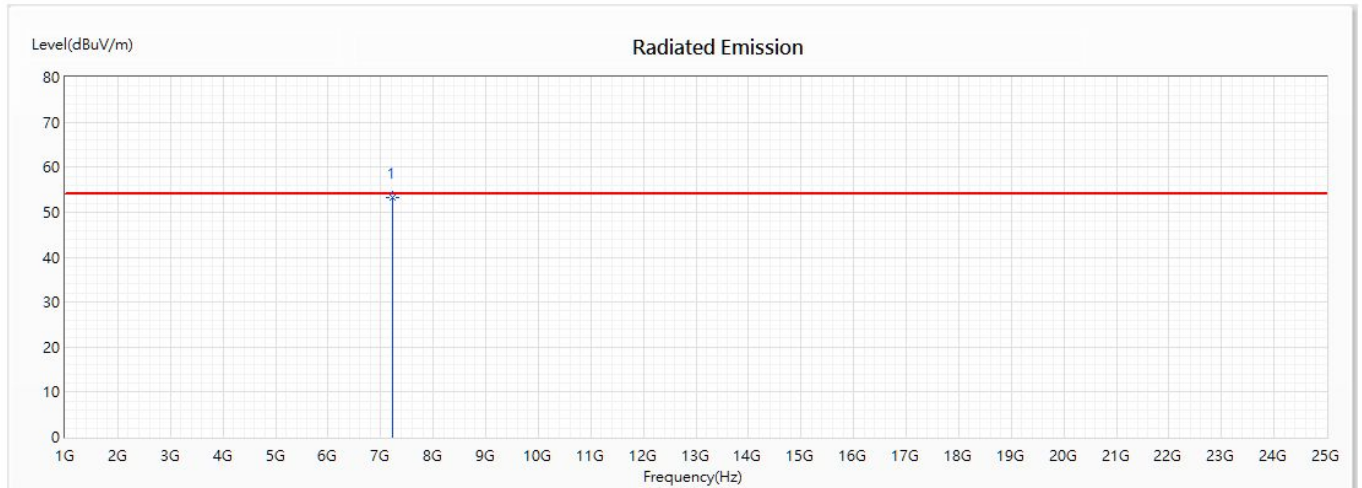
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	53.33	74.00	-20.67	65.32	-11.99	PK
* 2	7236	58.88	74.00	-15.12	71.84	-12.96	PK
3	9648	46.49	74.00	-27.51	59.59	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2412 MHz)
 Test Date : 2020/05/08

VERTICAL



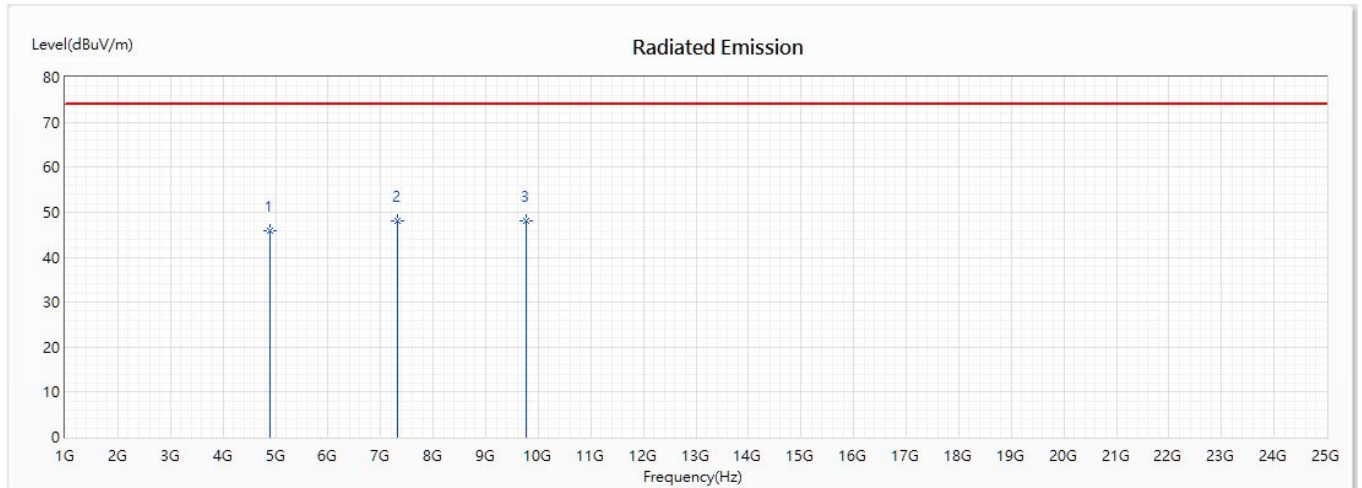
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	53.35	54.00	-0.65	66.31	-12.96	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2442 MHz)
 Test Date : 2020/05/08

HORIZONTAL



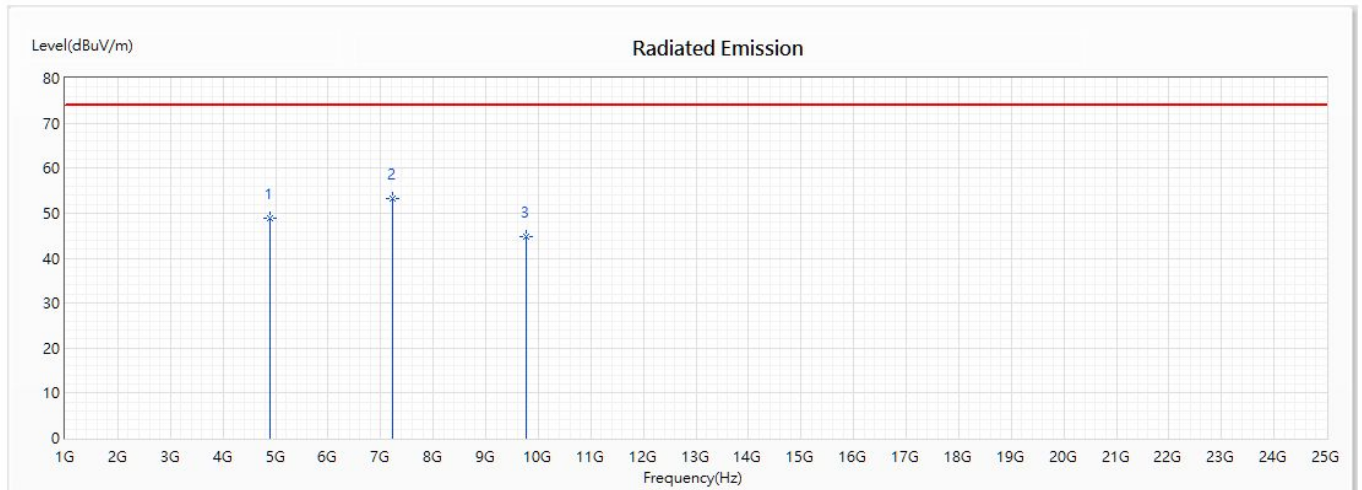
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	45.91	74.00	-28.09	57.49	-11.58	PK
* 2	7326	48.18	74.00	-25.82	61.78	-13.60	PK
3	9768	48.18	74.00	-25.82	60.75	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2442 MHz)
 Test Date : 2020/05/08

VERTICAL



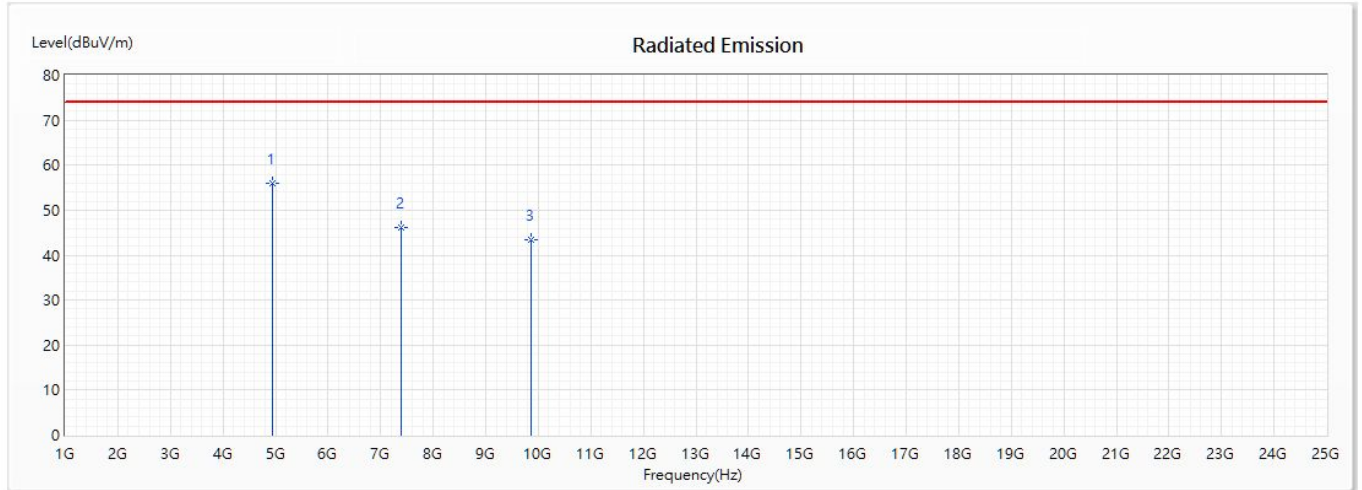
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	48.97	74.00	-25.03	60.55	-11.58	PK
* 2	7236	53.33	74.00	-20.67	66.29	-12.96	PK
3	9768	44.77	74.00	-29.23	57.34	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2467 MHz)
 Test Date : 2020/05/08

HORIZONTAL



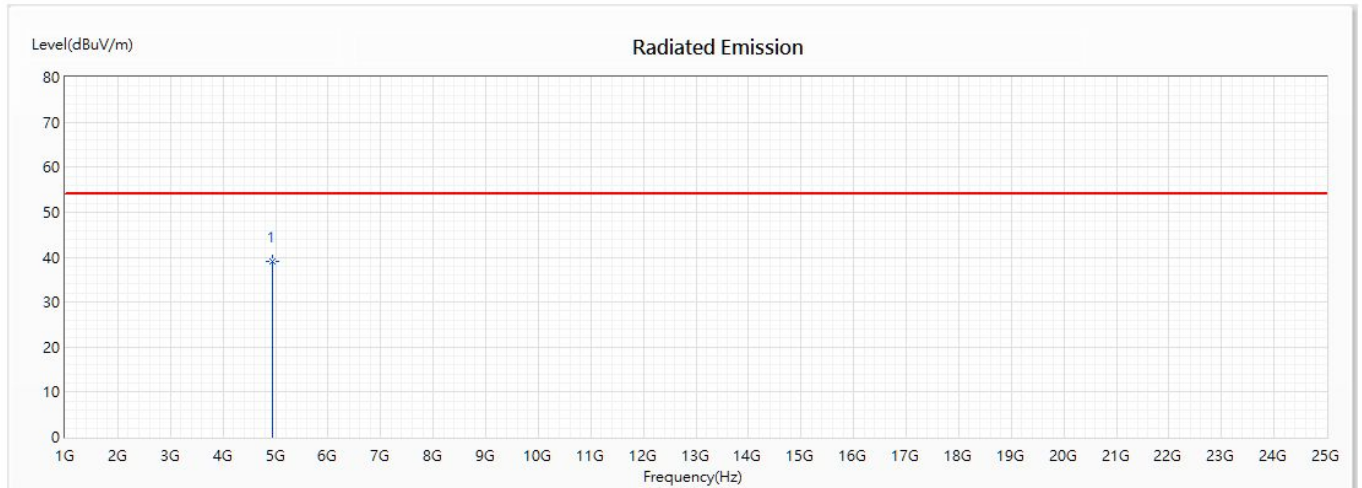
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	56.08	74.00	-17.92	67.22	-11.14	PK
2	7401	46.16	74.00	-27.84	60.38	-14.22	PK
3	9868	43.39	74.00	-30.61	57.05	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2467 MHz)
 Test Date : 2020/05/08

HORIZONTAL



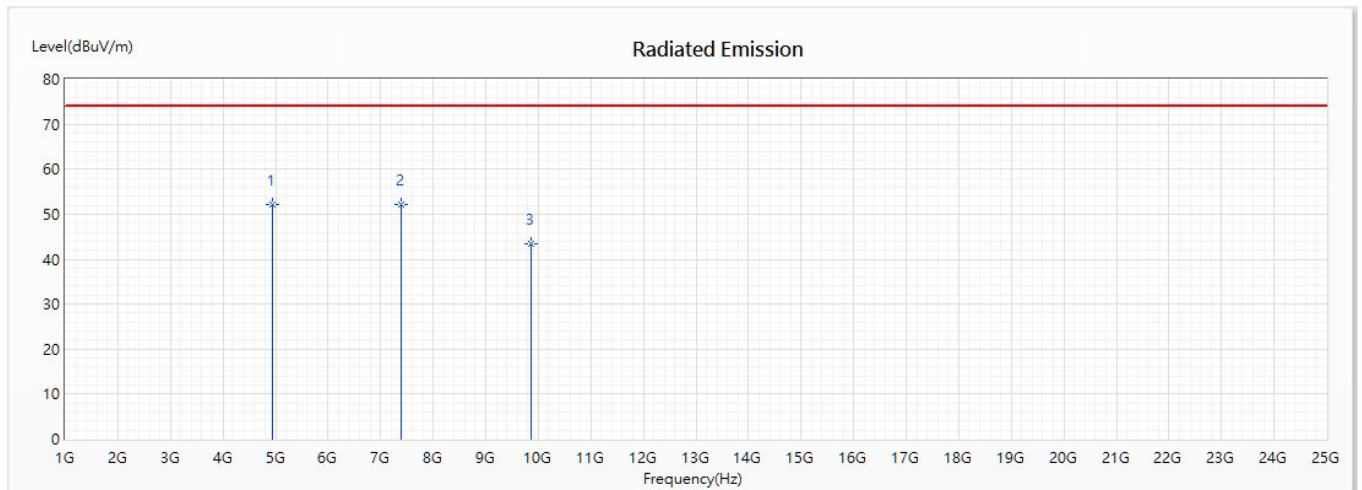
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	39.01	54.00	-14.99	50.15	-11.14	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2467 MHz)
 Test Date : 2020/05/08

VERTICAL



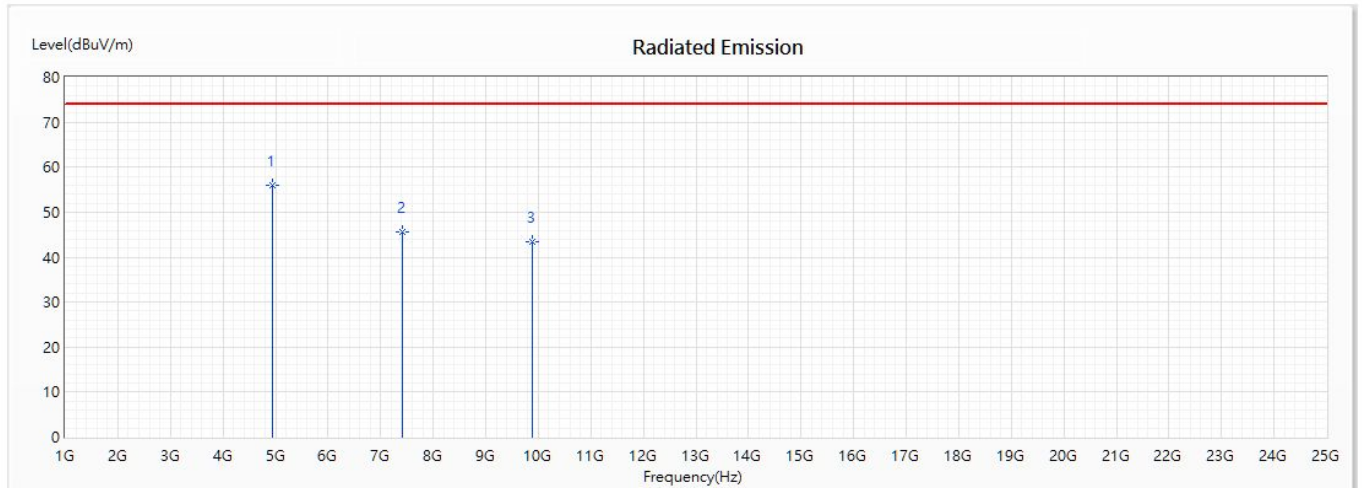
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	52.26	74.00	-21.74	63.40	-11.14	PK
2	7401	52.11	74.00	-21.89	66.33	-14.22	PK
3	9868	43.49	74.00	-30.51	57.15	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2472 MHz)
 Test Date : 2020/05/08

HORIZONTAL



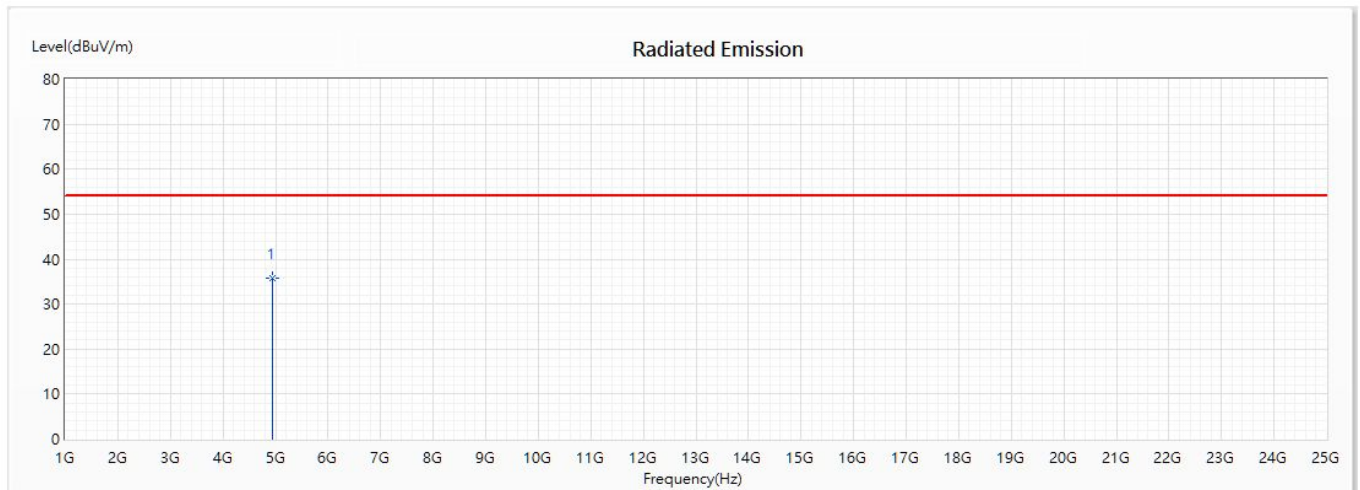
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	55.93	74.00	-18.07	66.97	-11.04	PK
2	7416	45.55	74.00	-28.45	59.92	-14.37	PK
3	9888	43.31	74.00	-30.69	57.19	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2472 MHz)
 Test Date : 2020/05/08

HORIZONTAL



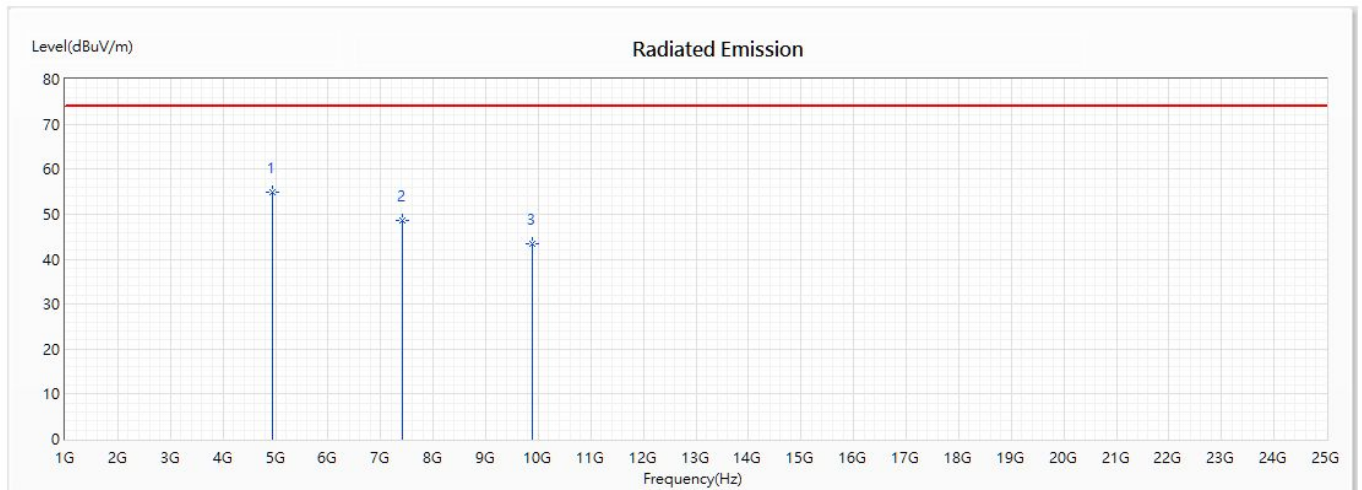
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	35.75	54.00	-18.25	46.79	-11.04	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2472 MHz)
 Test Date : 2020/05/08

VERTICAL



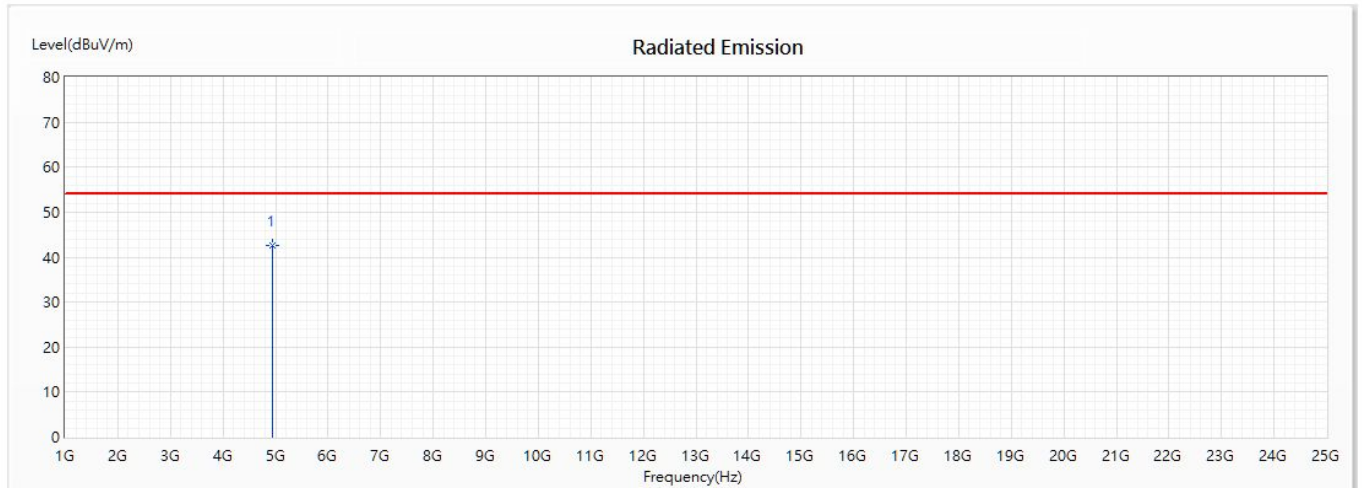
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	54.95	74.00	-19.05	65.99	-11.04	PK
2	7416	48.62	74.00	-25.38	62.99	-14.37	PK
3	9888	43.46	74.00	-30.54	57.34	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 7 SISO B: Transmit (802.11b_1Mbps) (2472 MHz)
 Test Date : 2020/05/08

VERTICAL



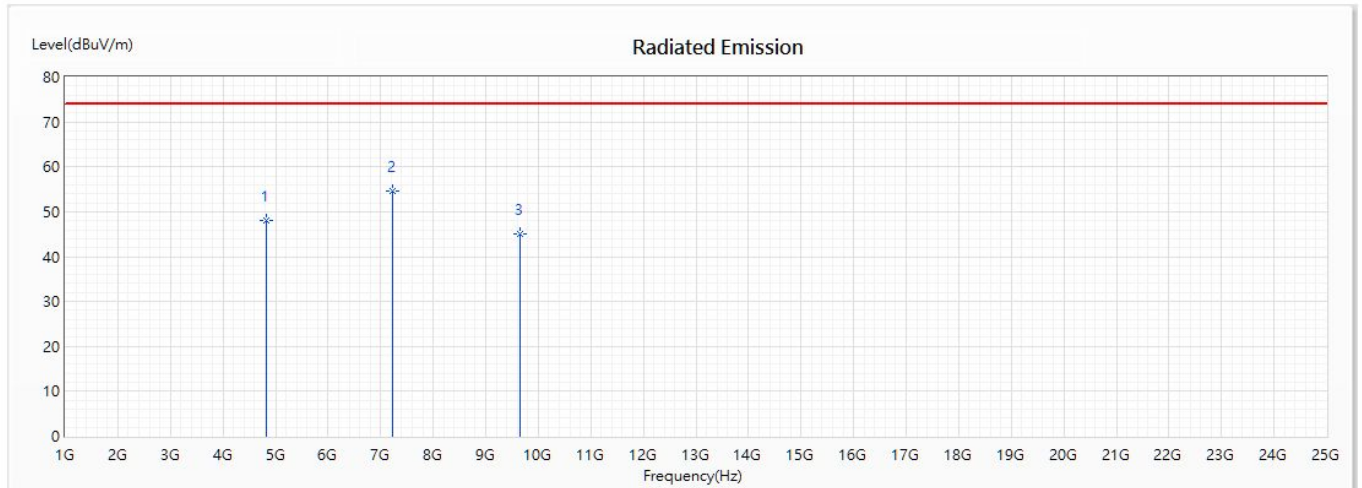
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	42.65	54.00	-11.35	53.69	-11.04	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2412 MHz)
 Test Date : 2020/05/26

HORIZONTAL



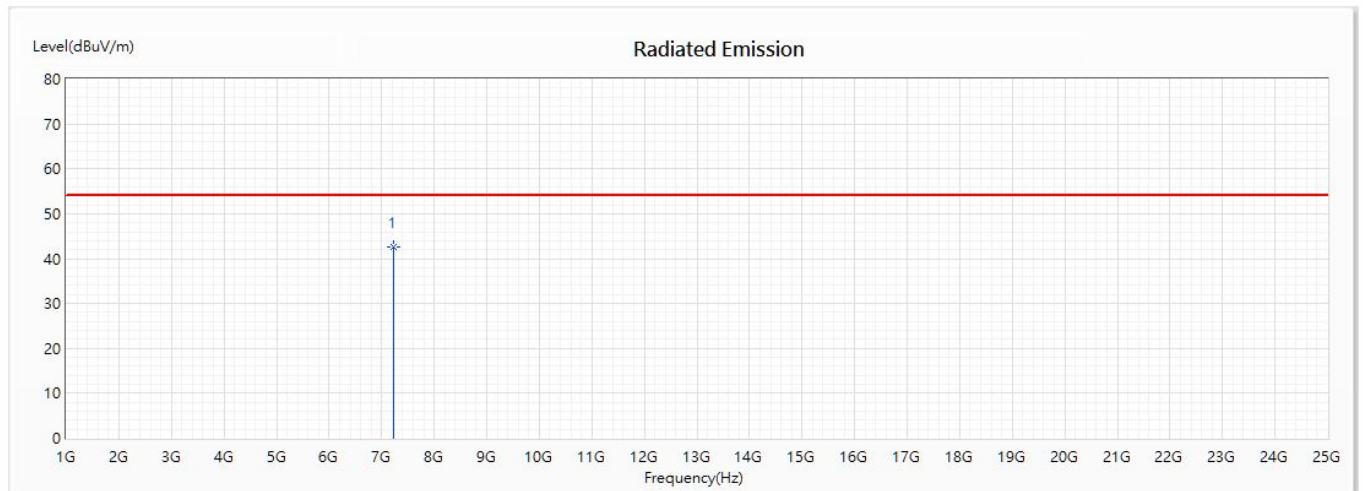
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	48.19	74.00	-25.81	60.18	-11.99	PK
* 2	7236	54.58	74.00	-19.42	67.54	-12.96	PK
3	9648	44.95	74.00	-29.05	58.05	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2412 MHz)
 Test Date : 2020/05/26

HORIZONTAL



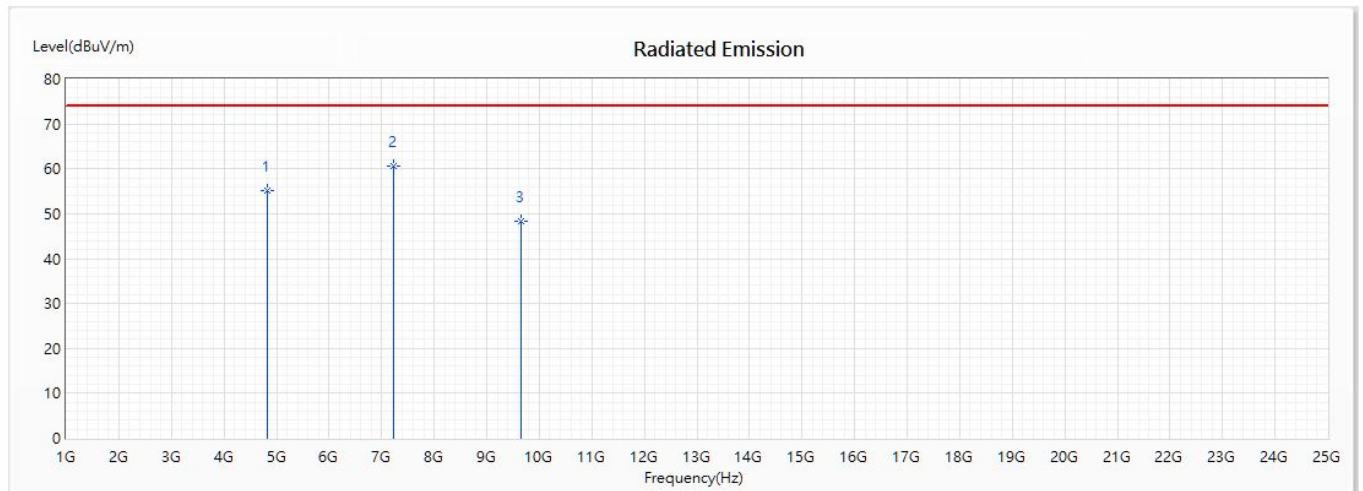
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	42.53	54.00	-11.47	55.49	-12.96	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2412 MHz)
 Test Date : 2020/05/26

VERTICAL



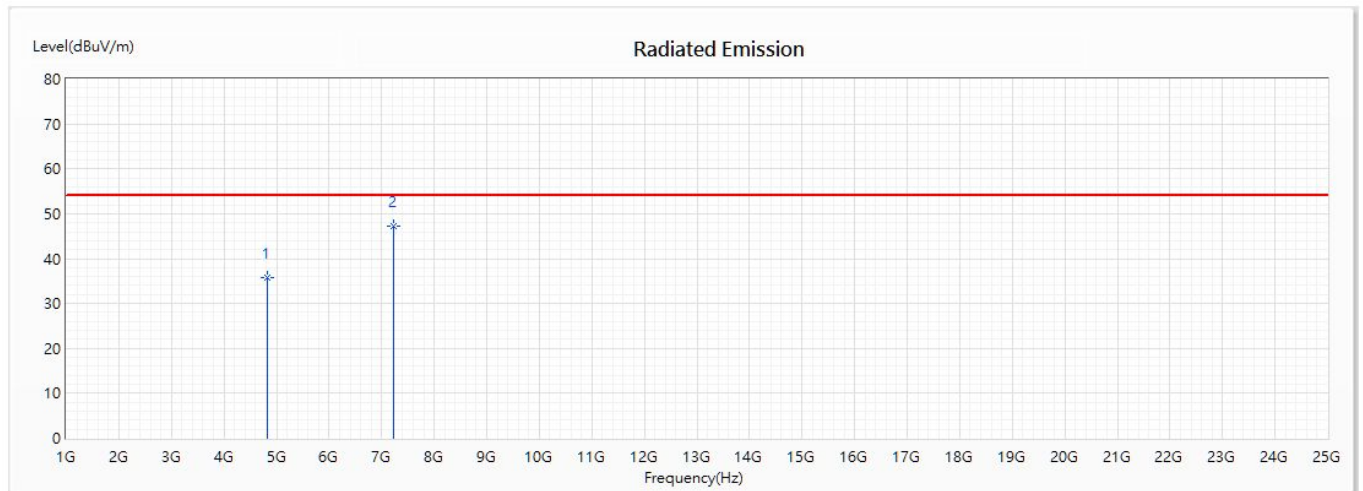
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	55.05	74.00	-18.95	67.04	-11.99	PK
* 2	7236	60.62	74.00	-13.38	73.58	-12.96	PK
3	9648	48.21	74.00	-25.79	61.31	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2412 MHz)
 Test Date : 2020/05/26

VERTICAL



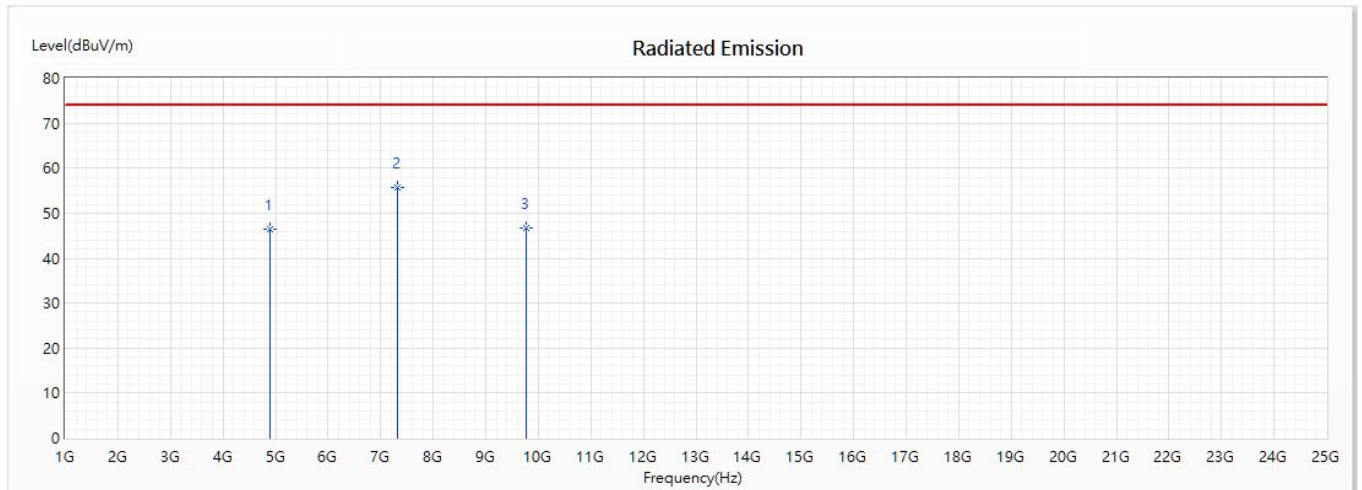
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	35.71	54.00	-18.29	47.70	-11.99	AV
* 2	7236	47.26	54.00	-6.74	60.22	-12.96	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
 Test Date : 2020/05/26

HORIZONTAL



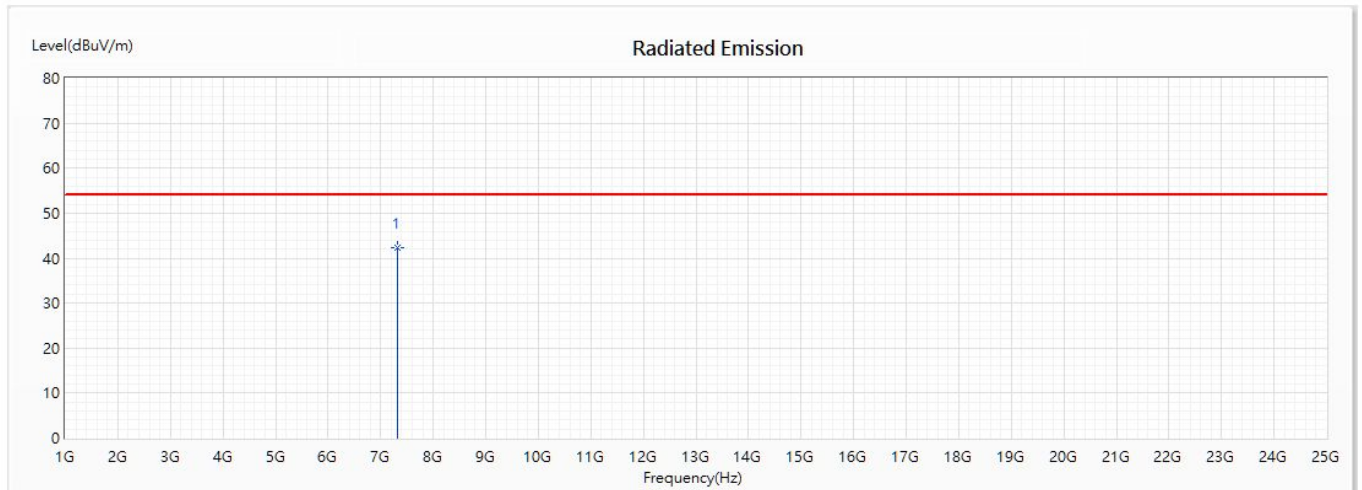
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	46.52	74.00	-27.48	58.10	-11.58	PK
* 2	7326	55.82	74.00	-18.18	69.42	-13.60	PK
3	9768	46.82	74.00	-27.18	59.39	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
 Test Date : 2020/05/26

HORIZONTAL



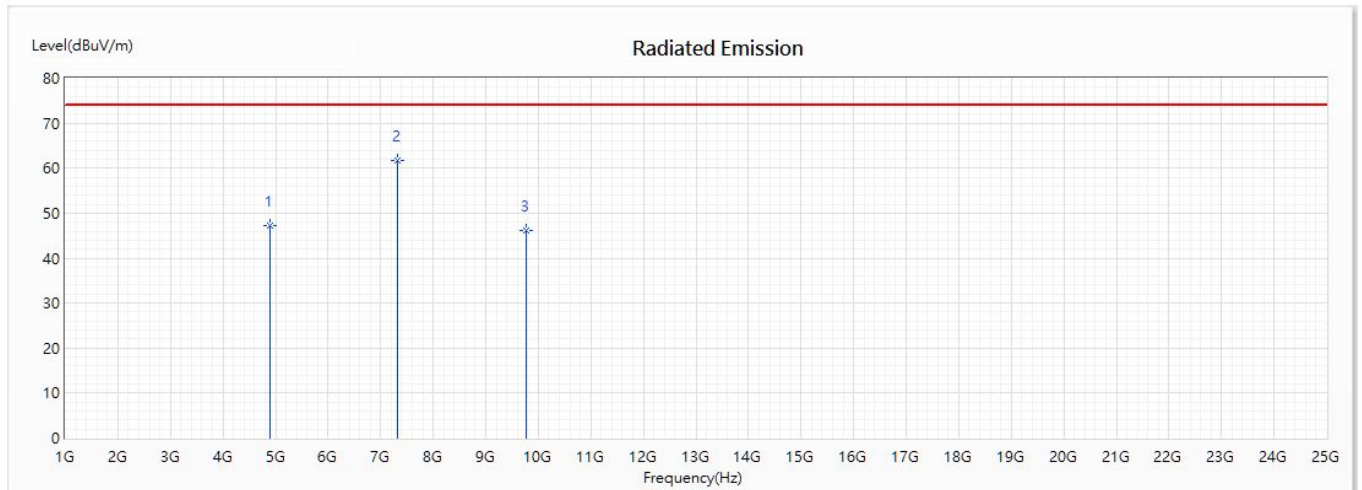
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7326	42.21	54.00	-11.79	55.81	-13.60	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



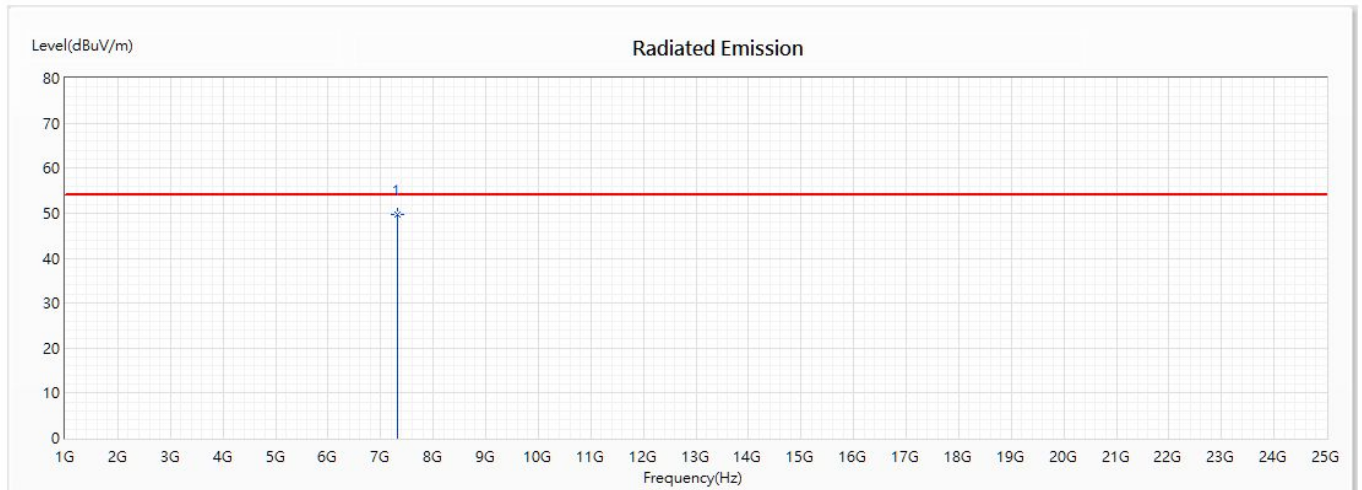
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	47.31	74.00	-26.69	58.89	-11.58	PK
* 2	7326	61.73	74.00	-12.27	75.33	-13.60	PK
3	9768	46.18	74.00	-27.82	58.75	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



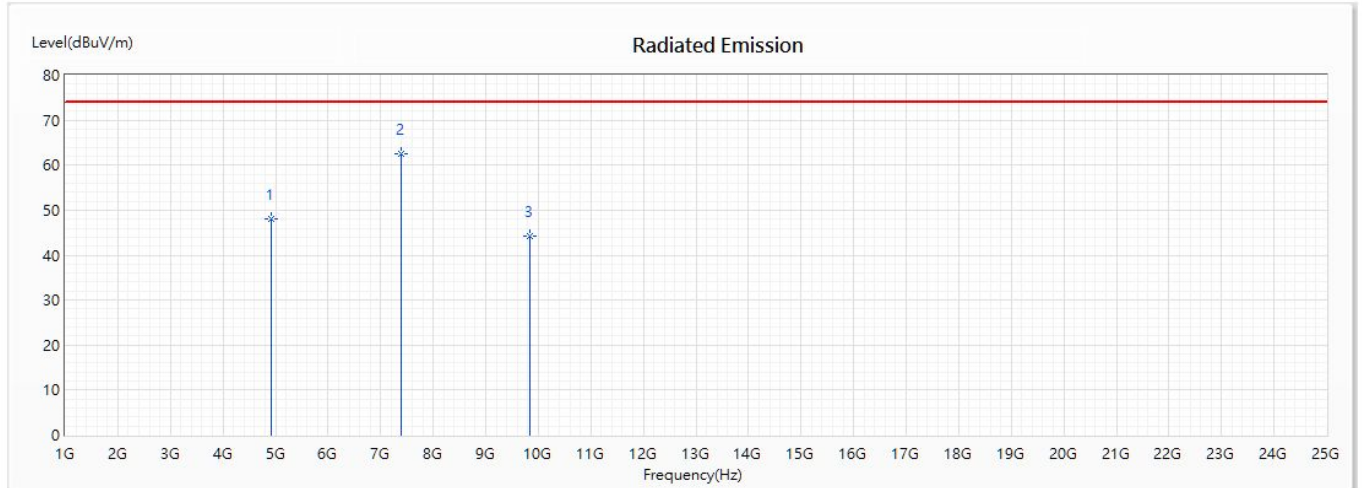
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7326	49.58	54.00	-4.42	63.18	-13.60	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2462 MHz)
 Test Date : 2020/05/26

HORIZONTAL



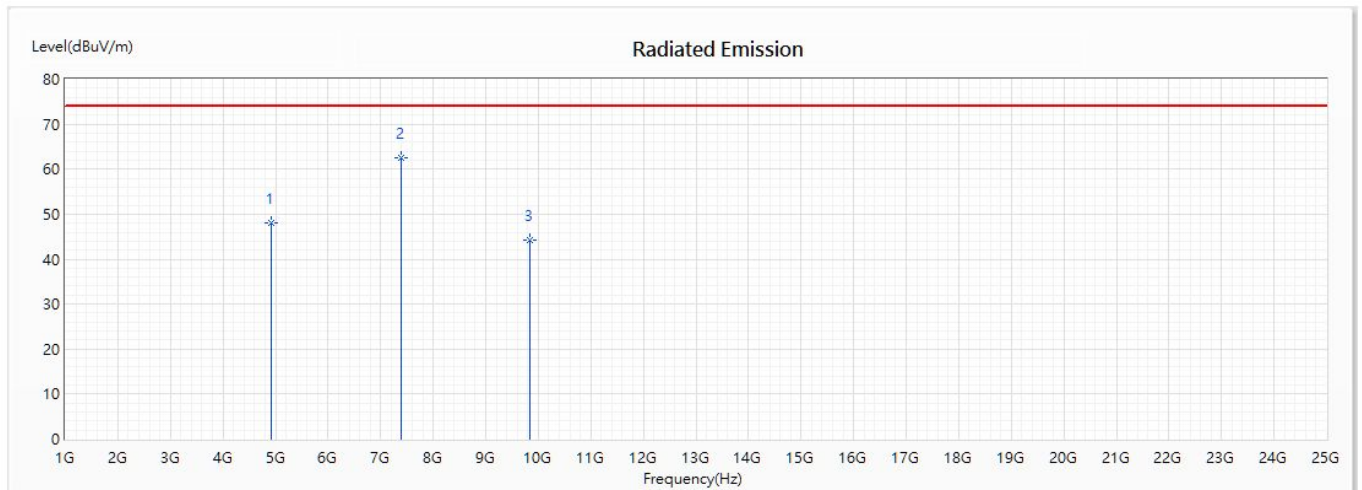
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	46.19	74.00	-27.81	57.43	-11.24	PK
* 2	7386	51.95	74.00	-22.05	66.05	-14.10	PK
3	9848	44.77	74.00	-29.23	58.21	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



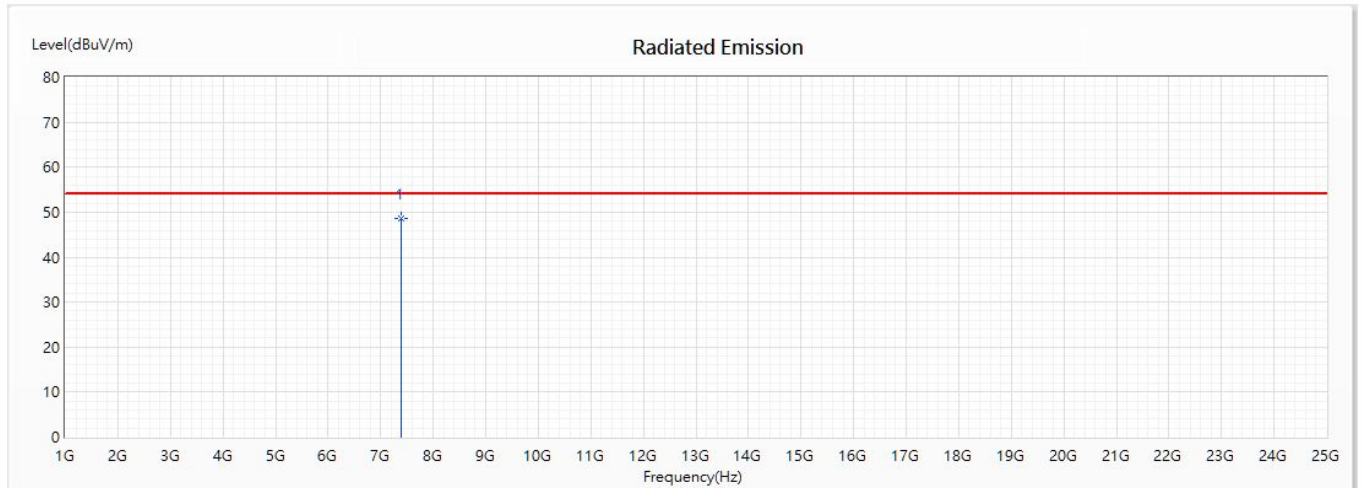
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	48.15	74.00	-25.85	59.39	-11.24	PK
* 2	7386	62.57	74.00	-11.43	76.67	-14.10	PK
3	9848	44.15	74.00	-29.85	57.59	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



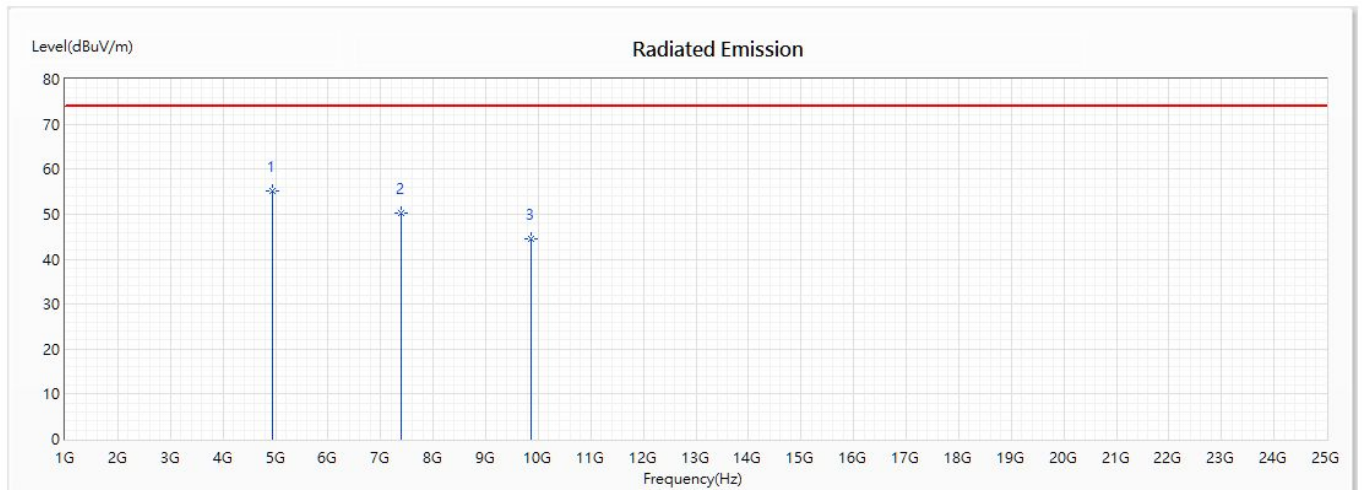
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7386	48.62	54.00	-5.38	62.72	-14.10	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2467 MHz)
 Test Date : 2020/05/26

HORIZONTAL



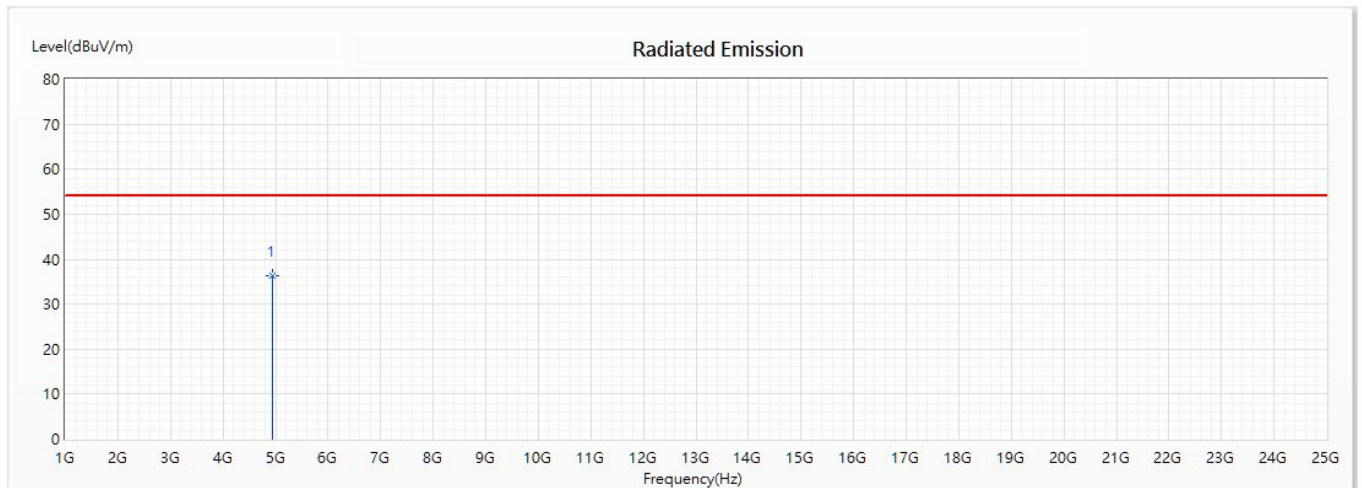
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	55.25	74.00	-18.75	66.39	-11.14	PK
2	7401	50.16	74.00	-23.84	64.38	-14.22	PK
3	9868	44.52	74.00	-29.48	58.18	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2467 MHz)
 Test Date : 2020/05/26

HORIZONTAL



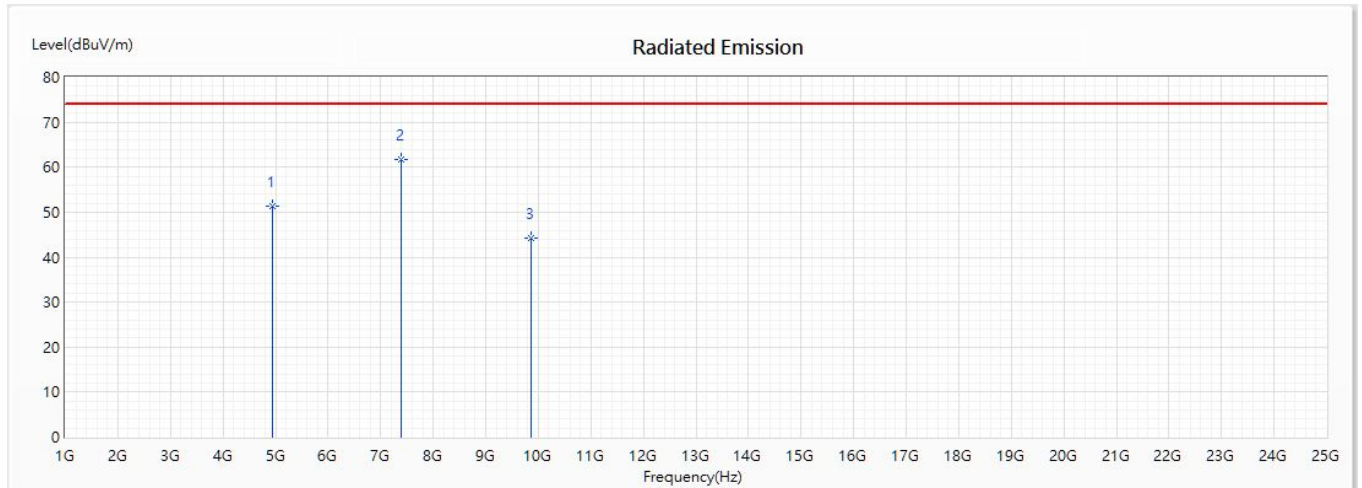
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	36.27	54.00	-17.73	47.41	-11.14	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2467 MHz)
 Test Date : 2020/05/26

VERTICAL



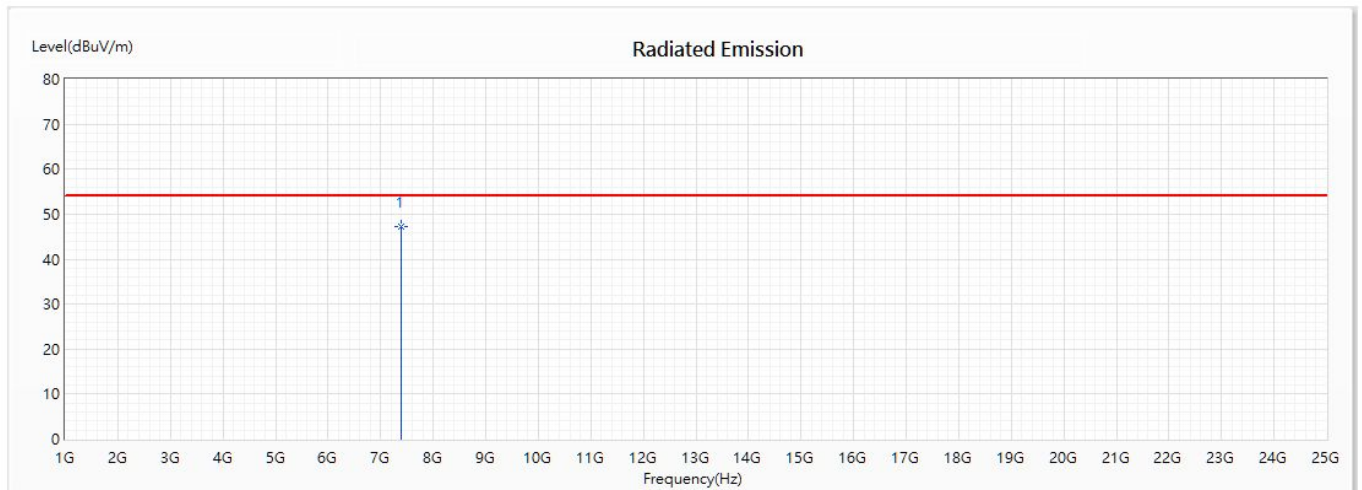
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4934	51.38	74.00	-22.62	62.52	-11.14	PK
* 2	7401	61.81	74.00	-12.19	76.03	-14.22	PK
3	9868	44.21	74.00	-29.79	57.87	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2467 MHz)
 Test Date : 2020/05/26

VERTICAL



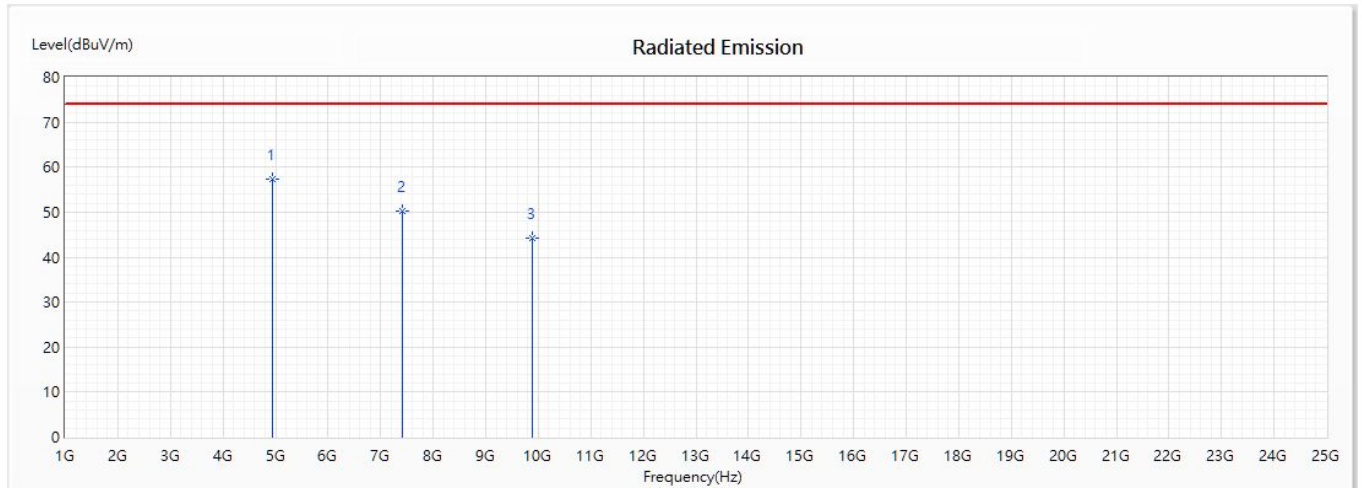
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7401	47.15	54.00	-6.85	61.37	-14.22	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2472 MHz)
 Test Date : 2020/05/26

HORIZONTAL



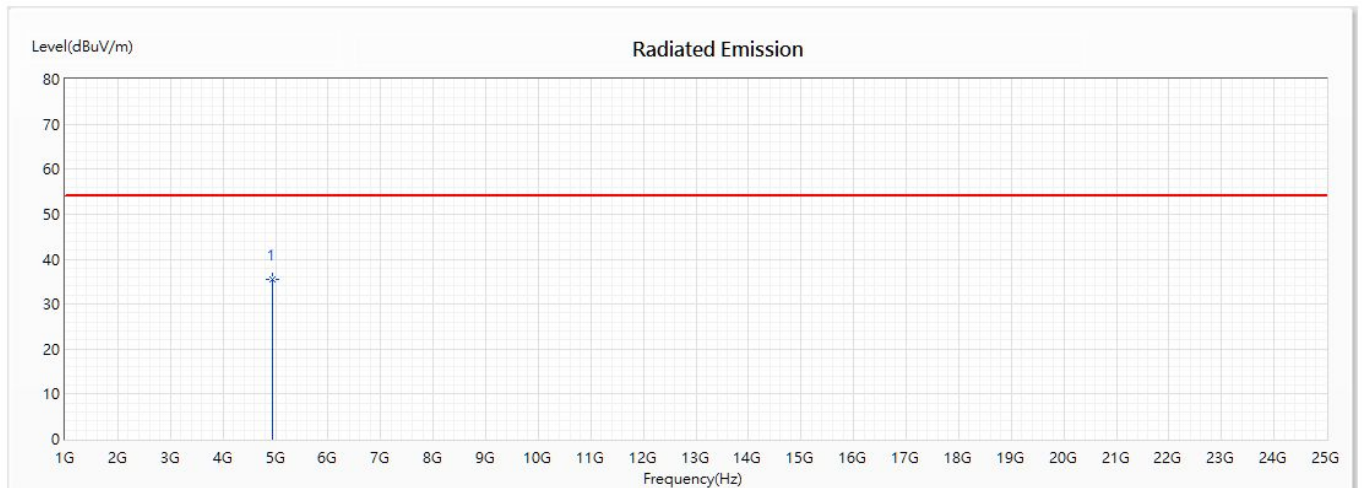
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	57.35	74.00	-16.65	68.39	-11.04	PK
2	7416	50.18	74.00	-23.82	64.55	-14.37	PK
3	9888	44.13	74.00	-29.87	58.01	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2472 MHz)
 Test Date : 2020/05/26

HORIZONTAL



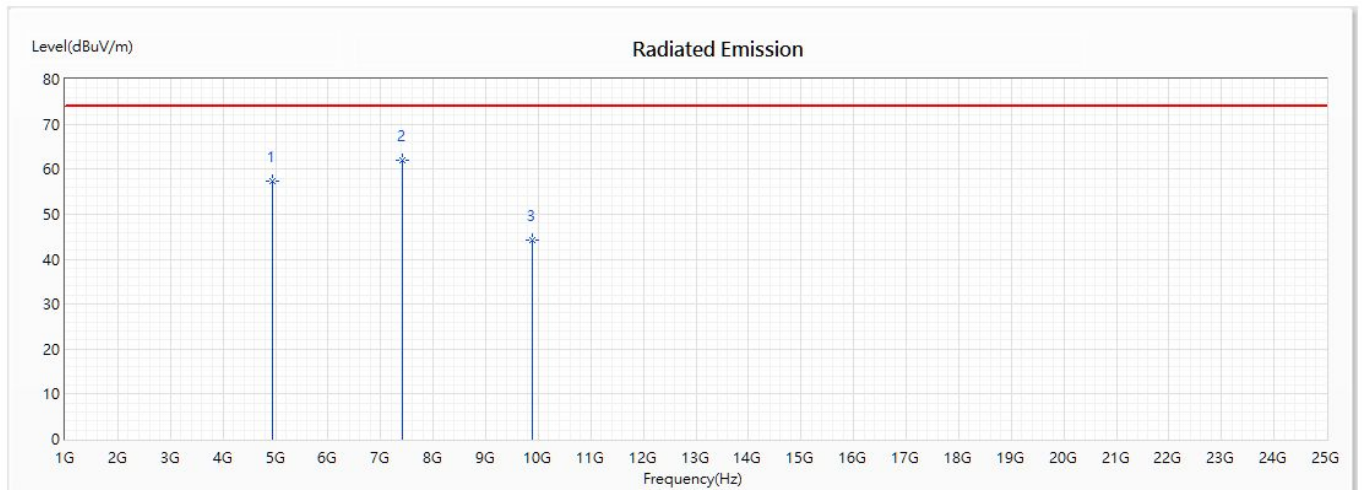
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	35.61	54.00	-18.39	46.65	-11.04	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2472 MHz)
 Test Date : 2020/05/26

VERTICAL



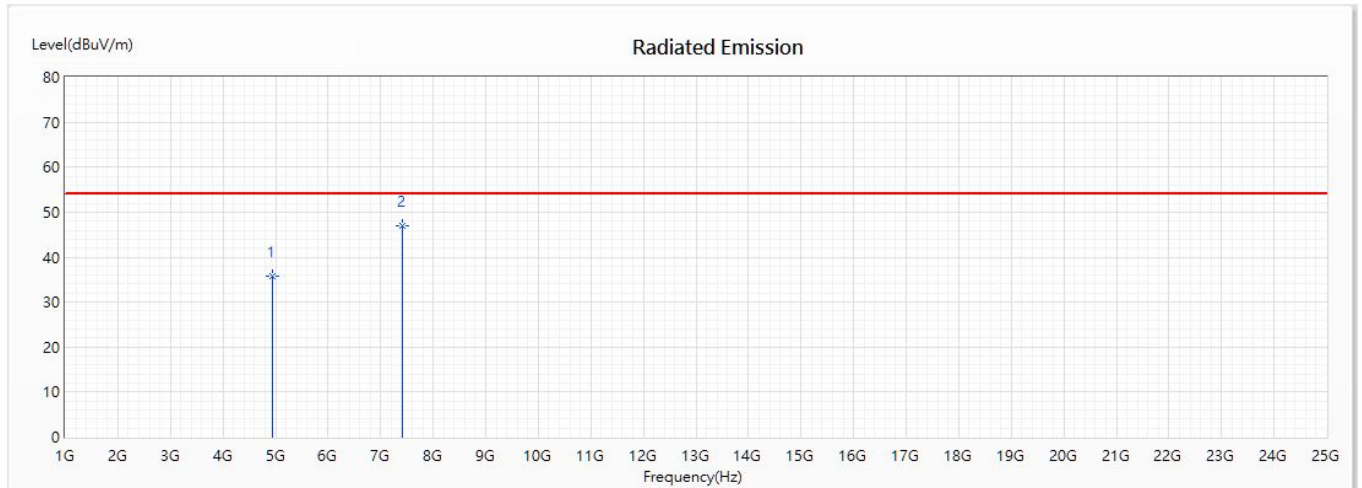
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4944	57.26	74.00	-16.74	68.30	-11.04	PK
* 2	7416	61.85	74.00	-12.15	76.22	-14.37	PK
3	9888	44.35	74.00	-29.65	58.23	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2472 MHz)
 Test Date : 2020/05/26

VERTICAL



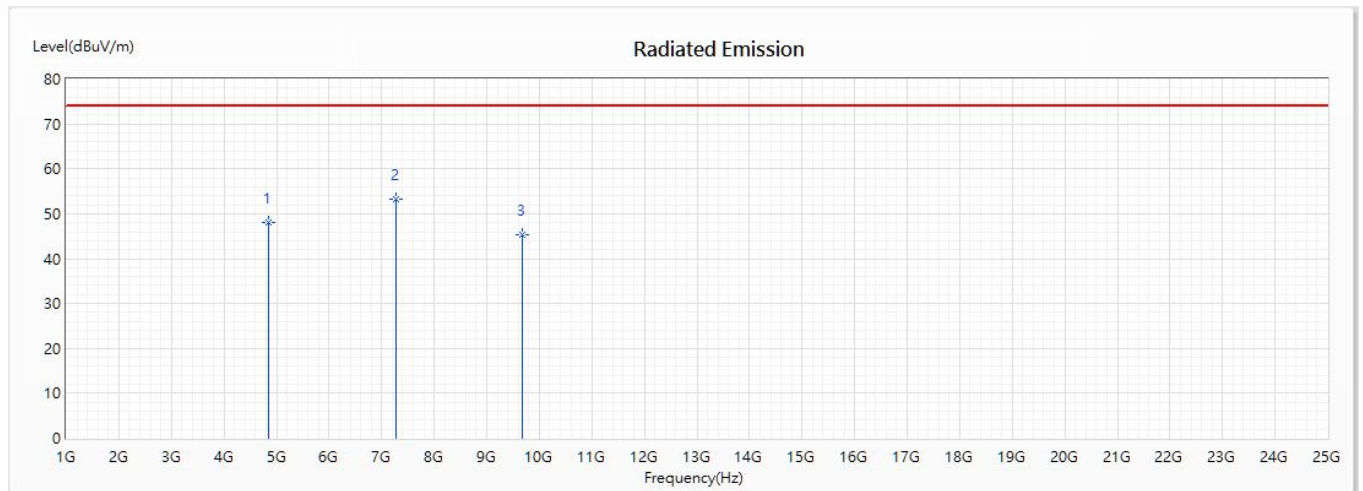
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4944	35.76	54.00	-18.24	46.80	-11.04	AV
* 2	7416	47.08	54.00	-6.92	61.45	-14.37	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2422MHz)
 Test Date : 2020/05/26

HORIZONTAL



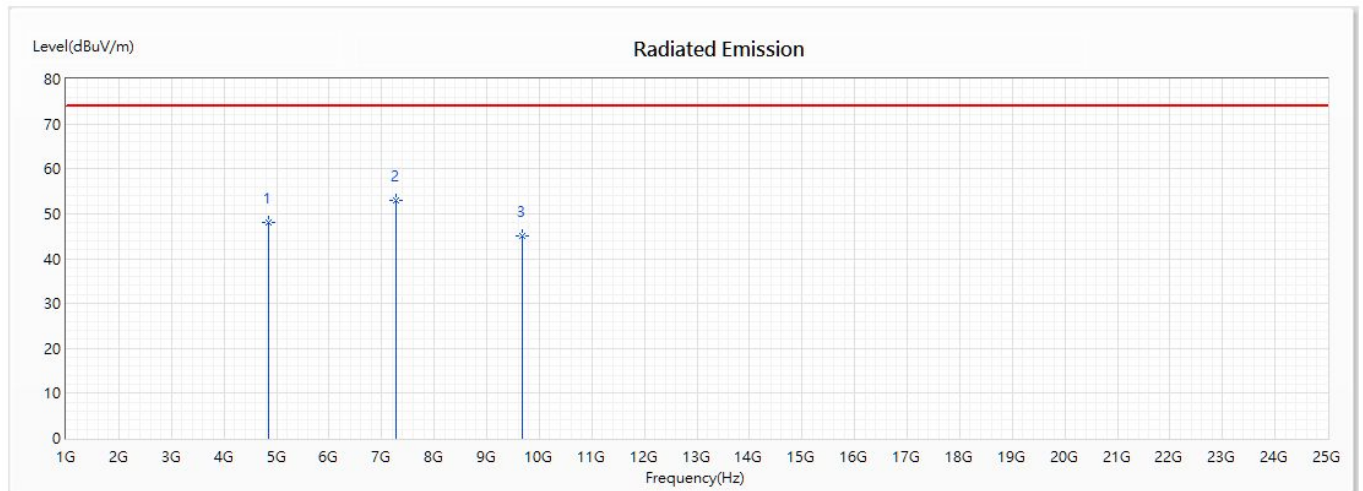
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4844	48.17	74.00	-25.83	60.00	-11.83	PK
* 2	7266	53.15	74.00	-20.85	66.18	-13.03	PK
3	9688	45.31	74.00	-28.69	58.09	-12.78	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2422MHz)
 Test Date : 2020/05/26

VERTICAL



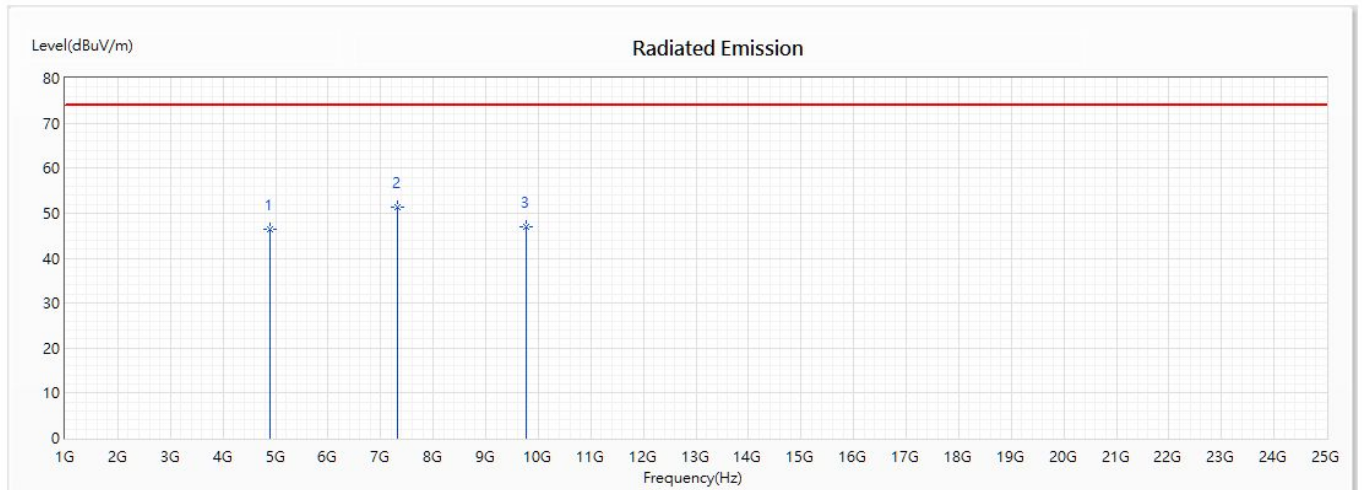
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4844	47.97	74.00	-26.03	59.80	-11.83	PK
* 2	7266	53.05	74.00	-20.95	66.08	-13.03	PK
3	9688	45.15	74.00	-28.85	57.93	-12.78	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2442 MHz)
 Test Date : 2020/05/26

HORIZONTAL



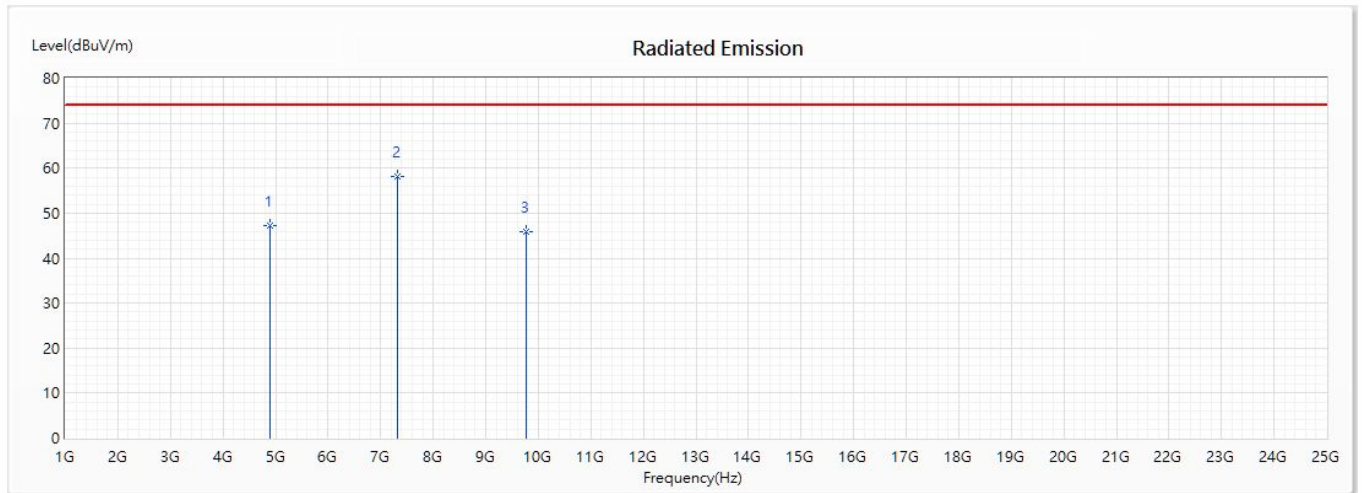
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	46.35	74.00	-27.65	57.93	-11.58	PK
* 2	7326	51.35	74.00	-22.65	64.95	-13.60	PK
3	9768	46.83	74.00	-27.17	59.40	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



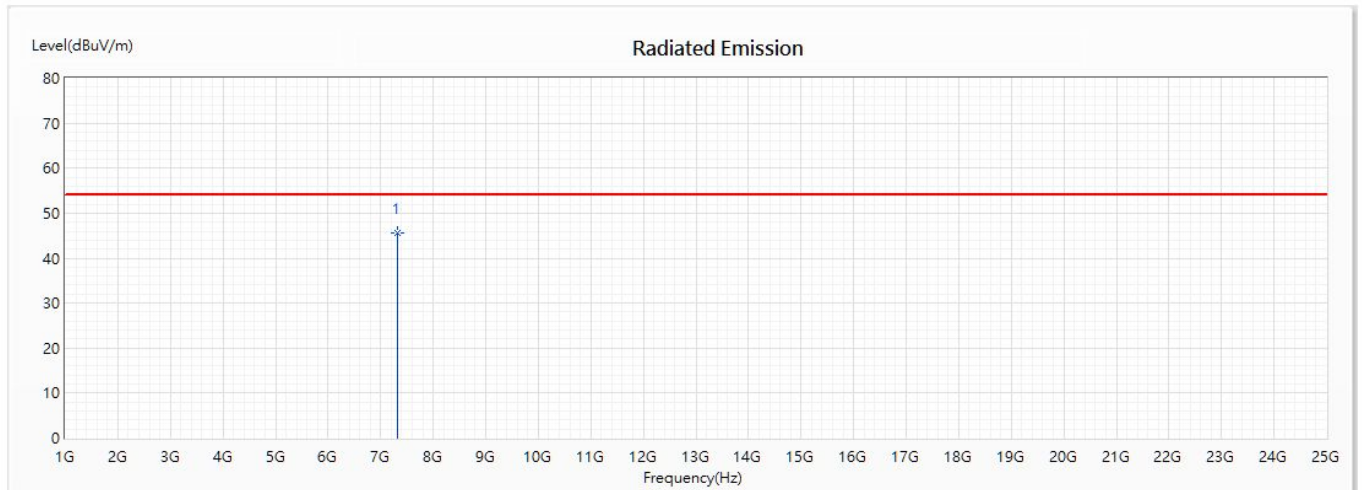
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	47.27	74.00	-26.73	58.85	-11.58	PK
* 2	7326	58.26	74.00	-15.74	71.86	-13.60	PK
3	9768	45.76	74.00	-28.24	58.33	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



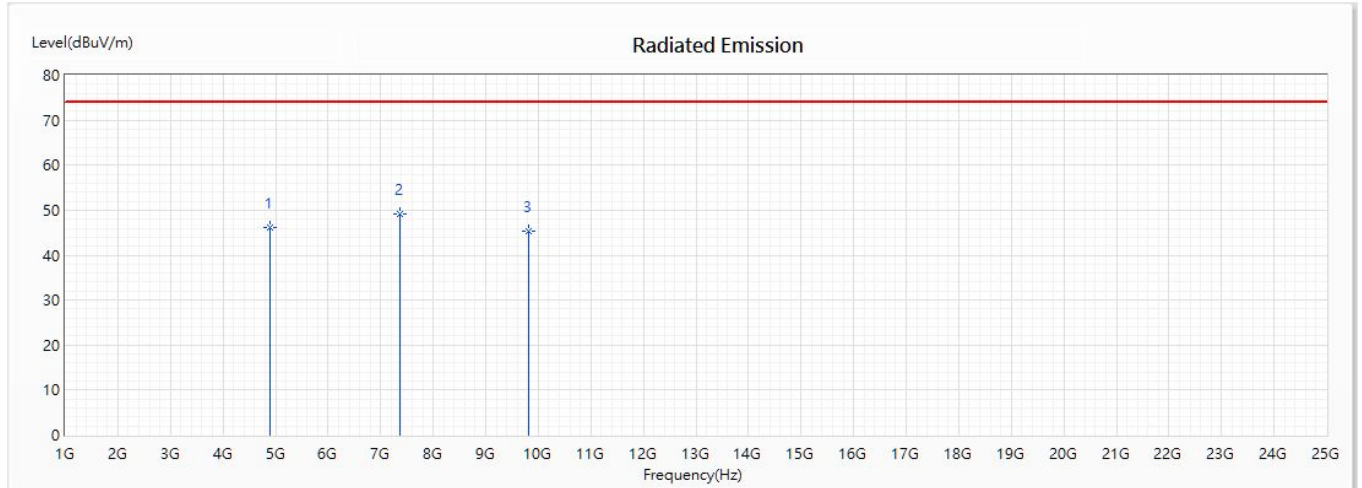
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7326	45.59	54.00	-8.41	59.19	-13.60	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2452 MHz)
 Test Date : 2020/05/26

HORIZONTAL



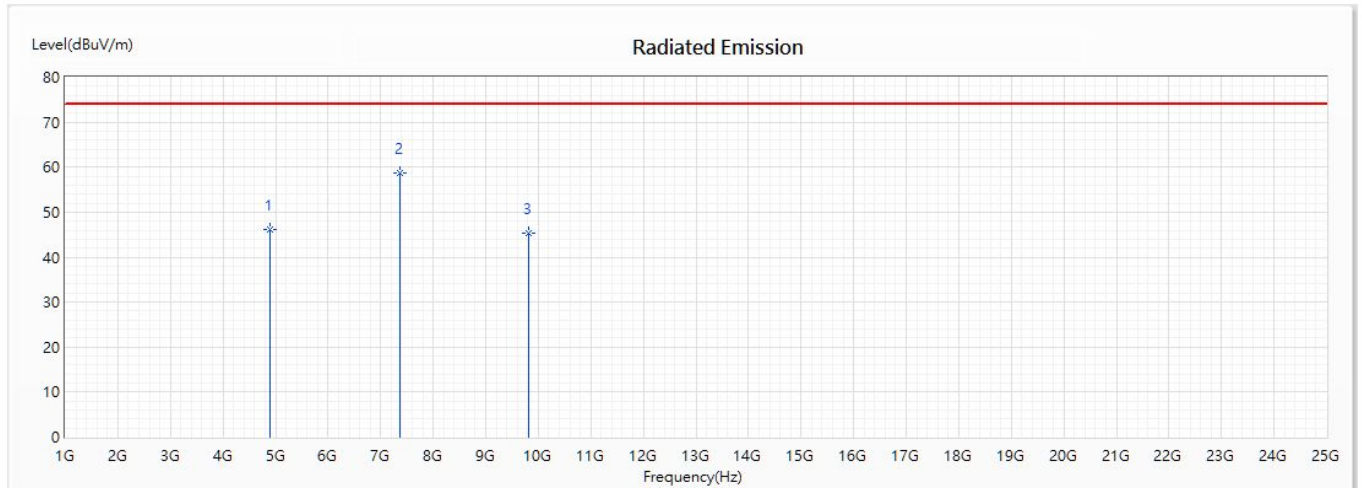
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4904	46.27	74.00	-27.73	57.71	-11.44	PK
* 2	7356	49.23	74.00	-24.77	63.07	-13.84	PK
3	9808	45.35	74.00	-28.65	58.35	-13.00	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2452 MHz)
 Test Date : 2020/05/26

VERTICAL



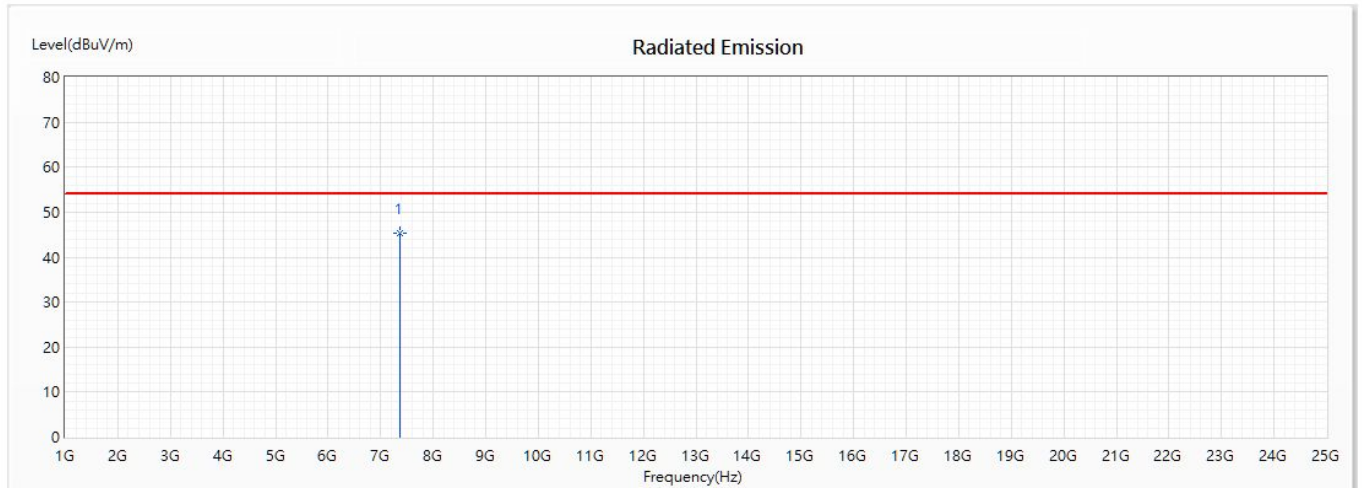
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4904	46.09	74.00	-27.91	57.53	-11.44	PK
* 2	7356	58.83	74.00	-15.17	72.67	-13.84	PK
3	9808	45.33	74.00	-28.67	58.33	-13.00	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2452 MHz)
 Test Date : 2020/05/26

VERTICAL



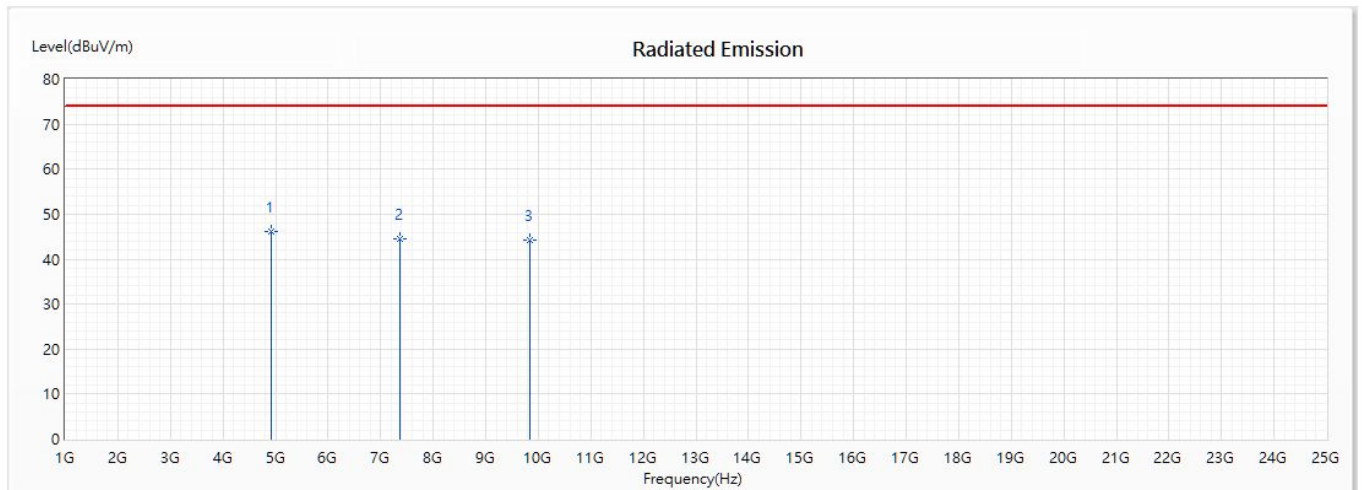
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7356	45.29	54.00	-8.71	59.13	-13.84	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2457 MHz)
 Test Date : 2020/05/26

HORIZONTAL



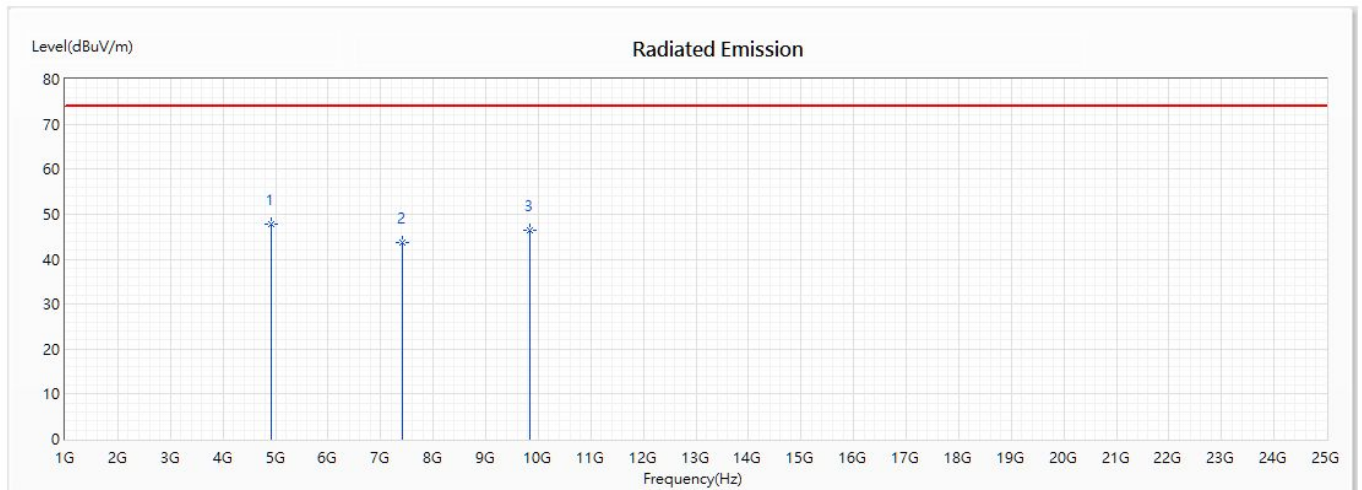
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4914	46.12	74.00	-27.88	57.46	-11.34	PK
2	7371	44.56	74.00	-29.44	58.54	-13.98	PK
3	9828	44.16	74.00	-29.84	57.39	-13.23	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2457 MHz)
 Test Date : 2020/05/26

VERTICAL



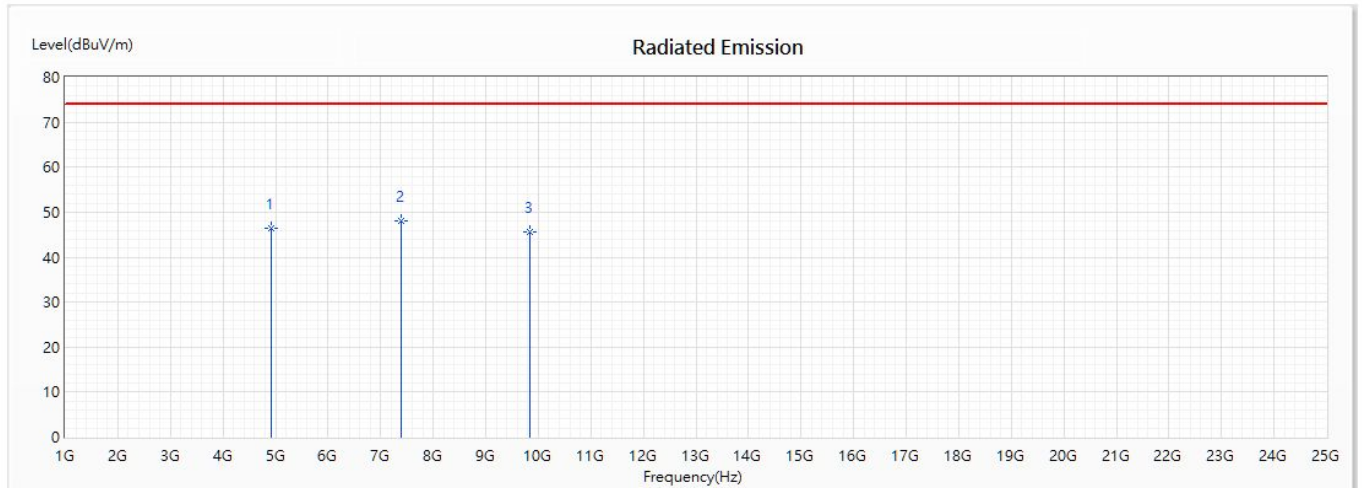
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4914	47.87	74.00	-26.13	59.21	-11.34	PK
2	7416	43.78	74.00	-30.22	58.15	-14.37	PK
3	9828	46.46	74.00	-27.54	59.69	-13.23	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2462 MHz)
 Test Date : 2020/05/26

HORIZONTAL



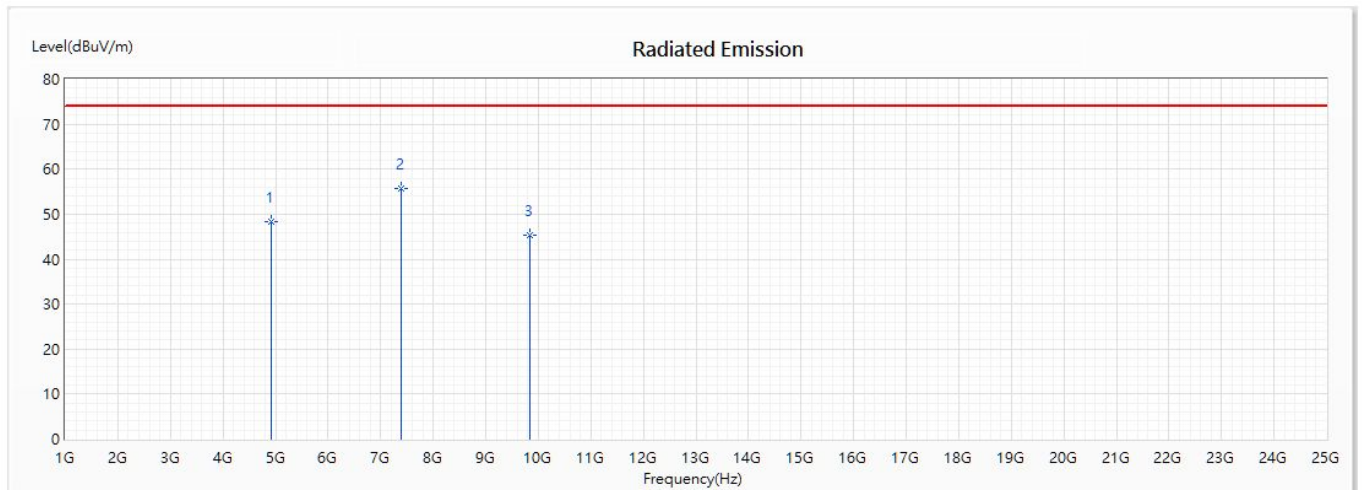
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	46.28	74.00	-27.72	57.52	-11.24	PK
* 2	7386	48.15	74.00	-25.85	62.25	-14.10	PK
3	9848	45.68	74.00	-28.32	59.12	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



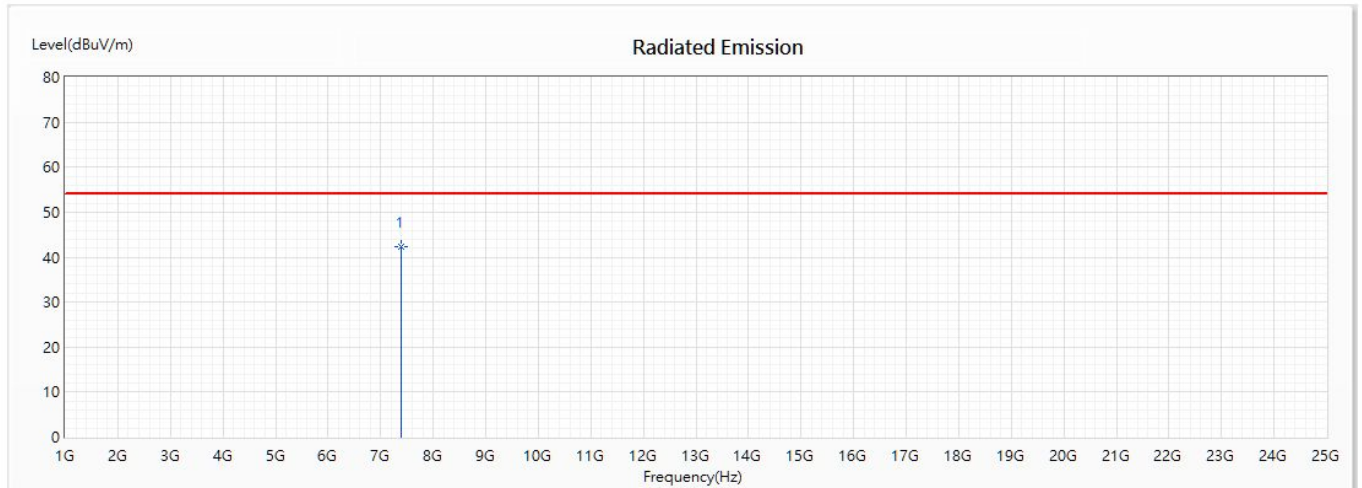
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	48.25	74.00	-25.75	59.49	-11.24	PK
* 2	7386	55.62	74.00	-18.38	69.72	-14.10	PK
3	9848	45.26	74.00	-28.74	58.70	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



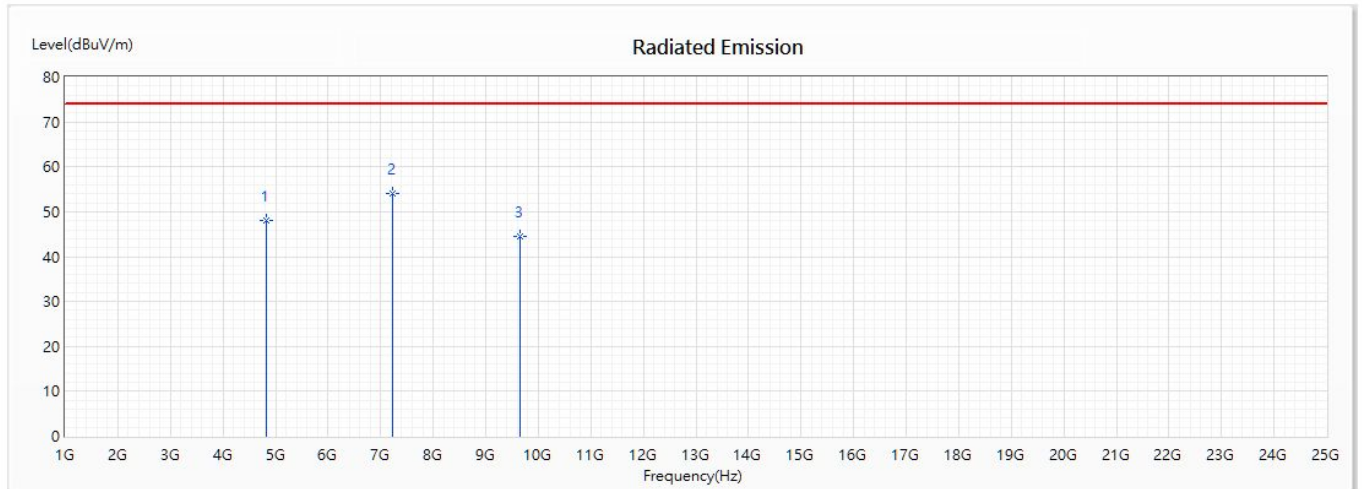
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7386	42.41	54.00	-11.59	56.51	-14.10	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2412MHz)
 Test Date : 2020/05/26

HORIZONTAL



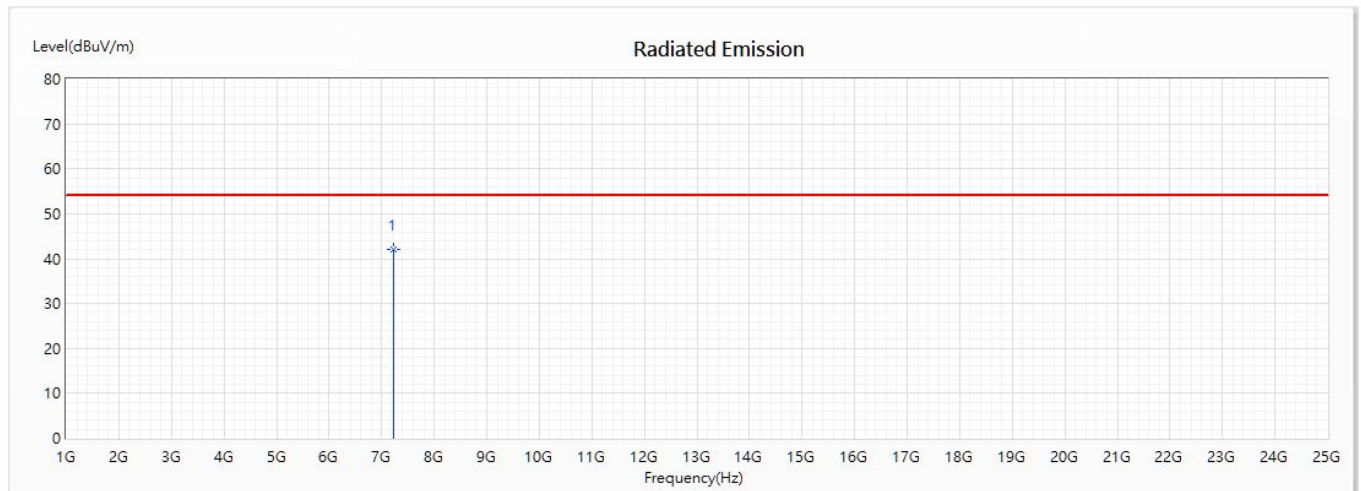
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	47.95	74.00	-26.05	59.94	-11.99	PK
* 2	7236	54.18	74.00	-19.82	67.14	-12.96	PK
3	9648	44.58	74.00	-29.42	57.68	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2412MHz)
 Test Date : 2020/05/26

HORIZONTAL



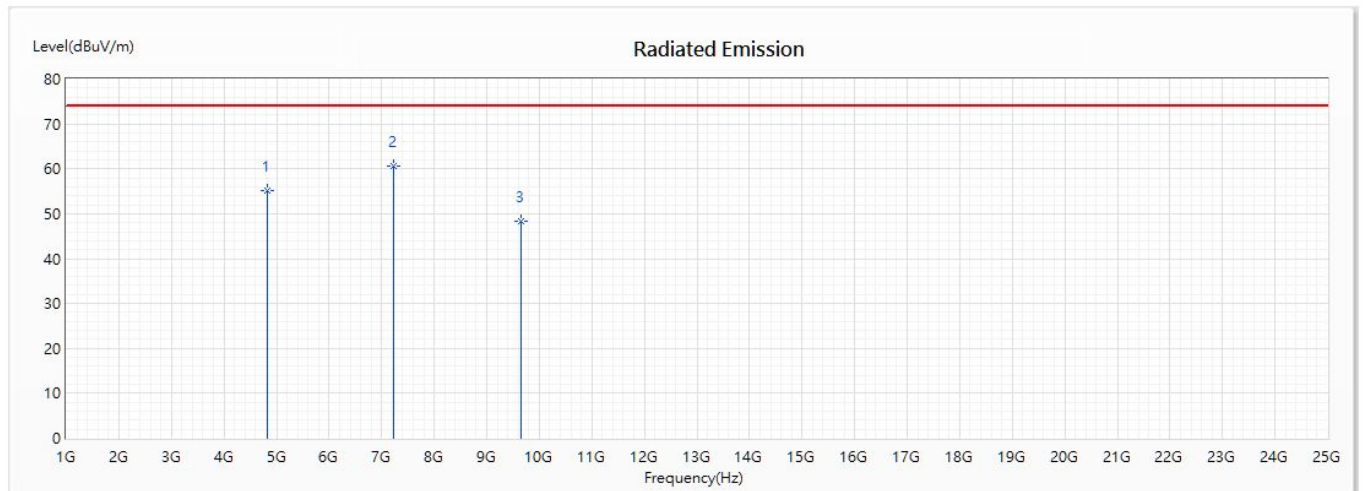
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	42.05	54.00	-11.95	55.01	-12.96	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2412MHz)
 Test Date : 2020/05/26

VERTICAL



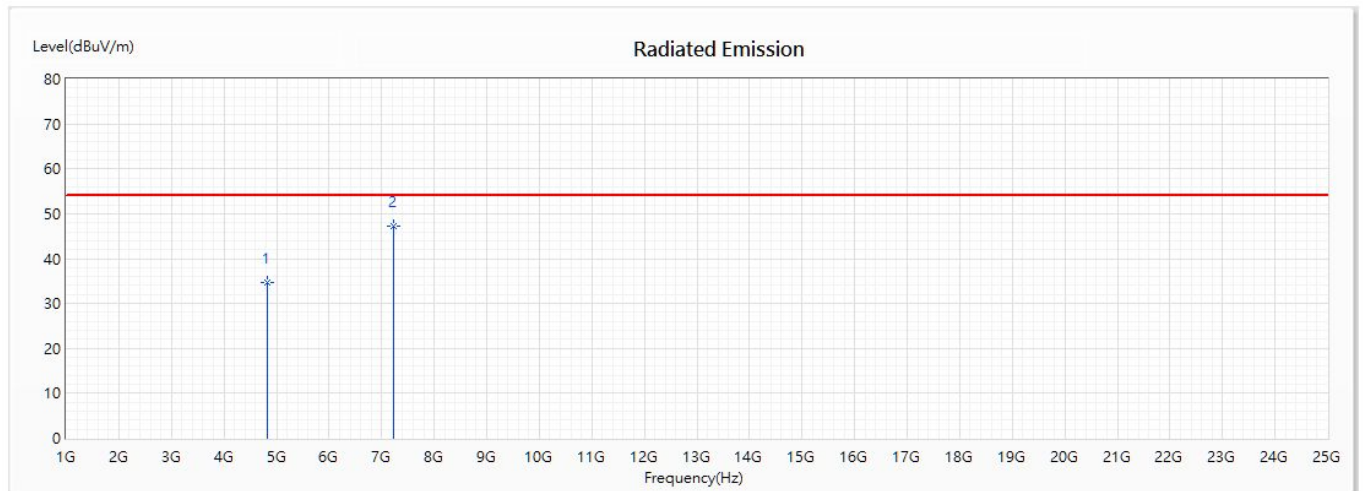
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	55.12	74.00	-18.88	67.11	-11.99	PK
* 2	7236	60.50	74.00	-13.50	73.46	-12.96	PK
3	9648	48.26	74.00	-25.74	61.36	-13.10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2412MHz)
 Test Date : 2020/05/26

VERTICAL



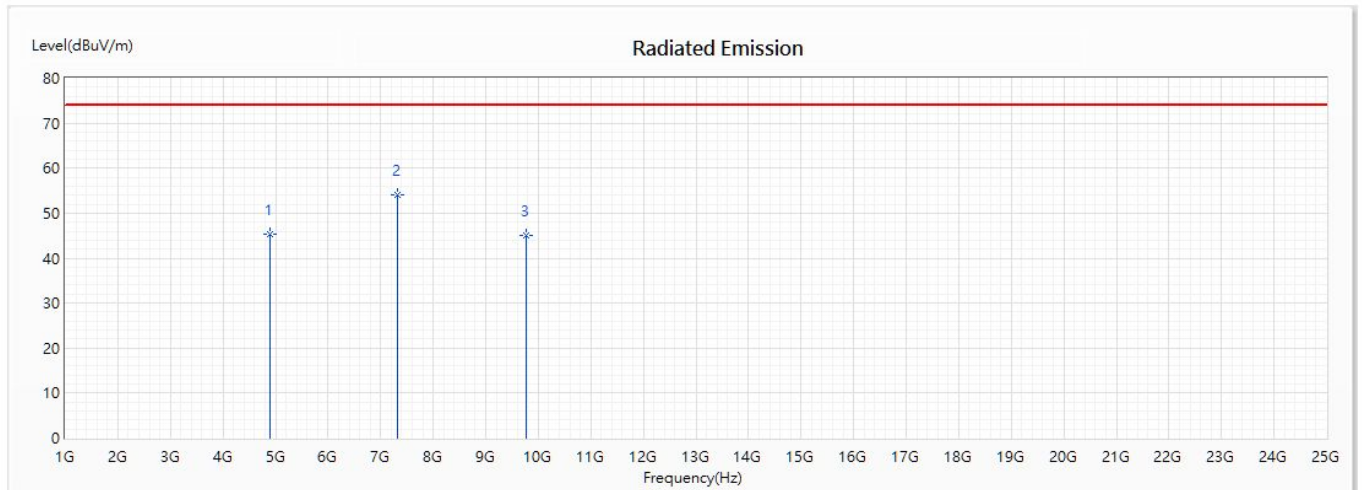
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	34.62	54.00	-19.38	46.61	-11.99	AV
* 2	7236	47.17	54.00	-6.83	60.13	-12.96	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
 Test Date : 2020/05/26

HORIZONTAL



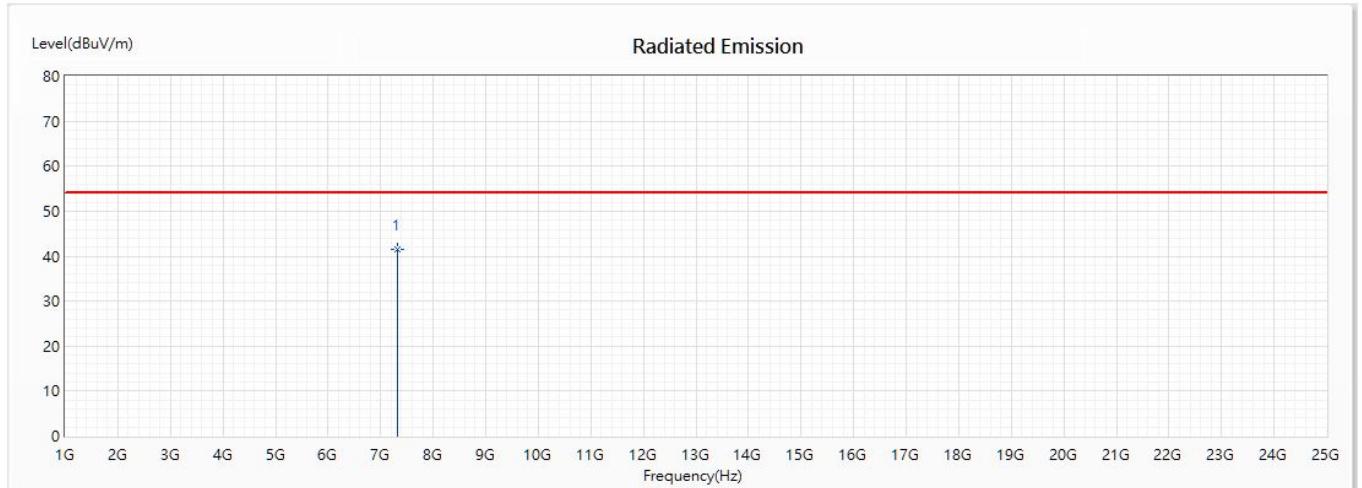
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	45.22	74.00	-28.78	56.80	-11.58	PK
* 2	7326	54.05	74.00	-19.95	67.65	-13.60	PK
3	9768	45.08	74.00	-28.92	57.65	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
 Test Date : 2020/05/26

HORIZONTAL



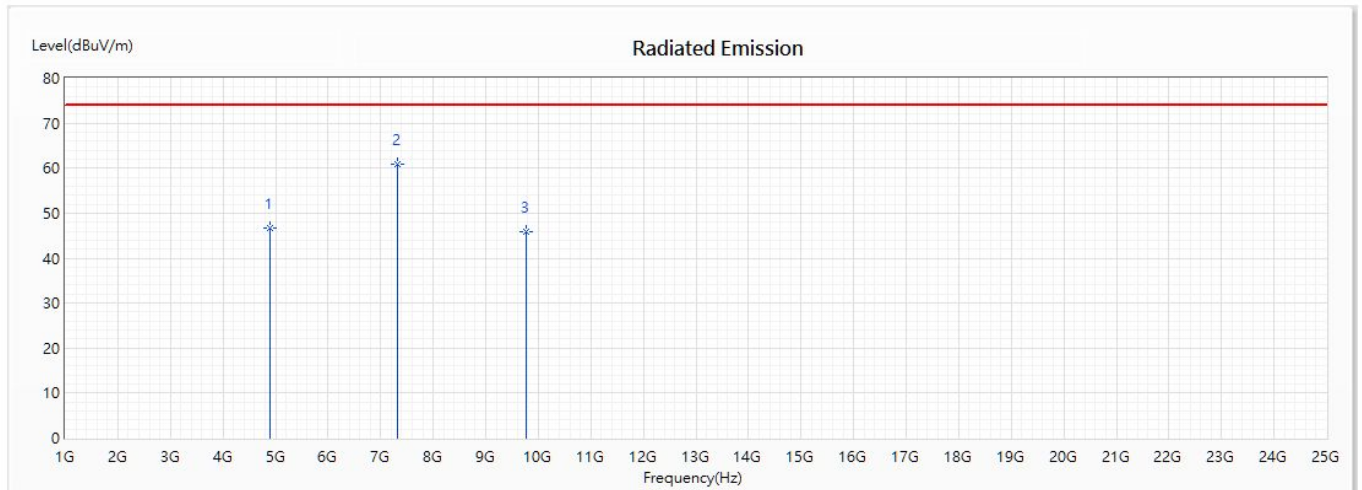
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7326	41.56	54.00	-12.44	55.16	-13.60	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



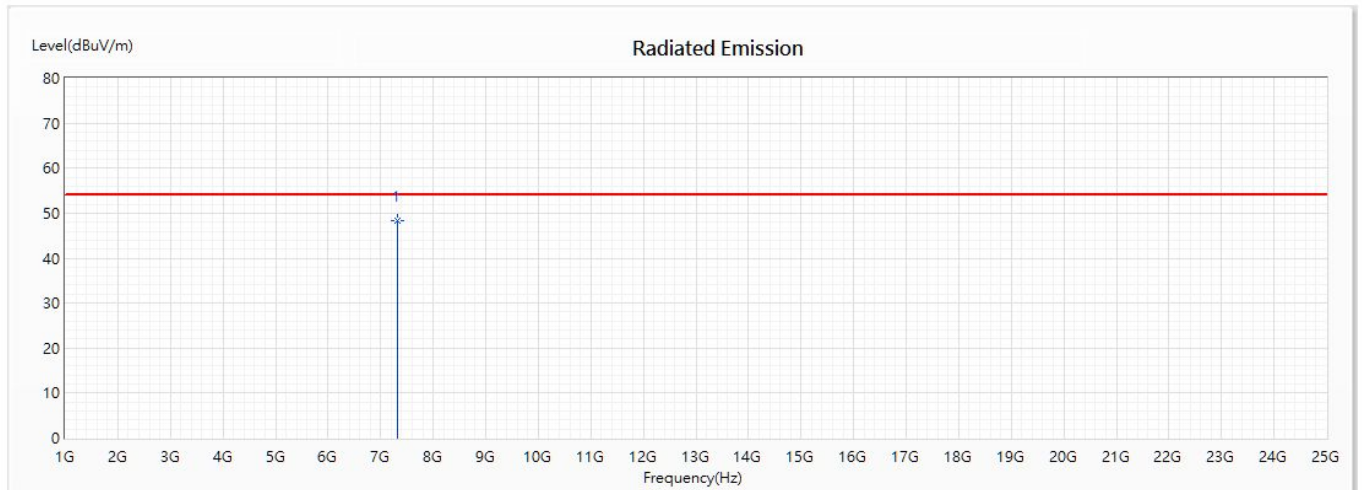
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4884	46.71	74.00	-27.29	58.29	-11.58	PK
* 2	7326	60.88	74.00	-13.12	74.48	-13.60	PK
3	9768	45.83	74.00	-28.17	58.40	-12.57	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
 Test Date : 2020/05/26

VERTICAL



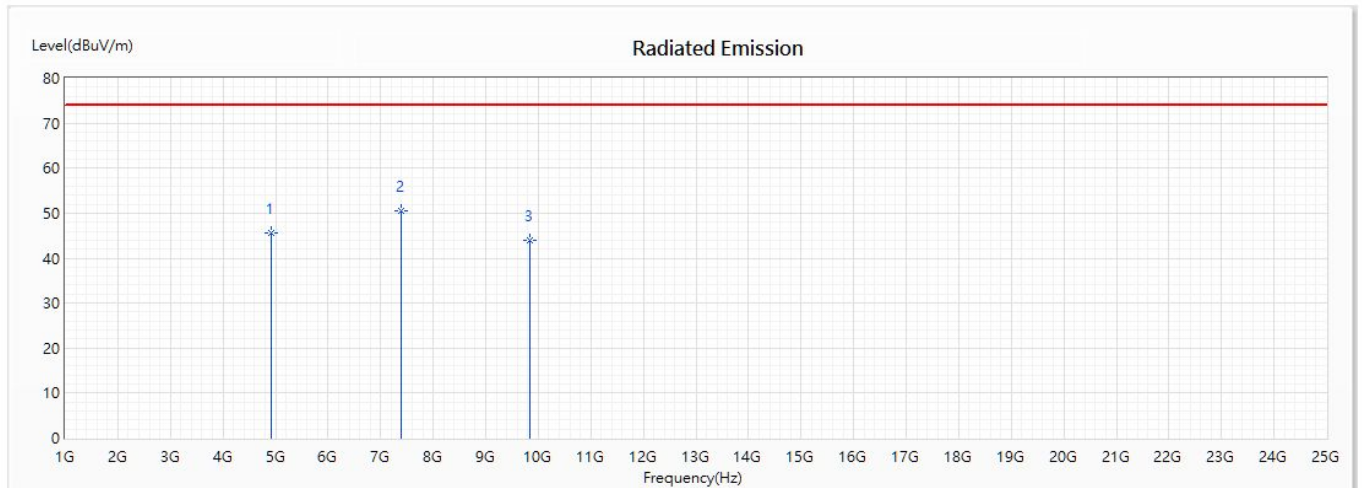
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7326	48.45	54.00	-5.55	62.05	-13.60	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2462 MHz)
 Test Date : 2020/05/26

HORIZONTAL



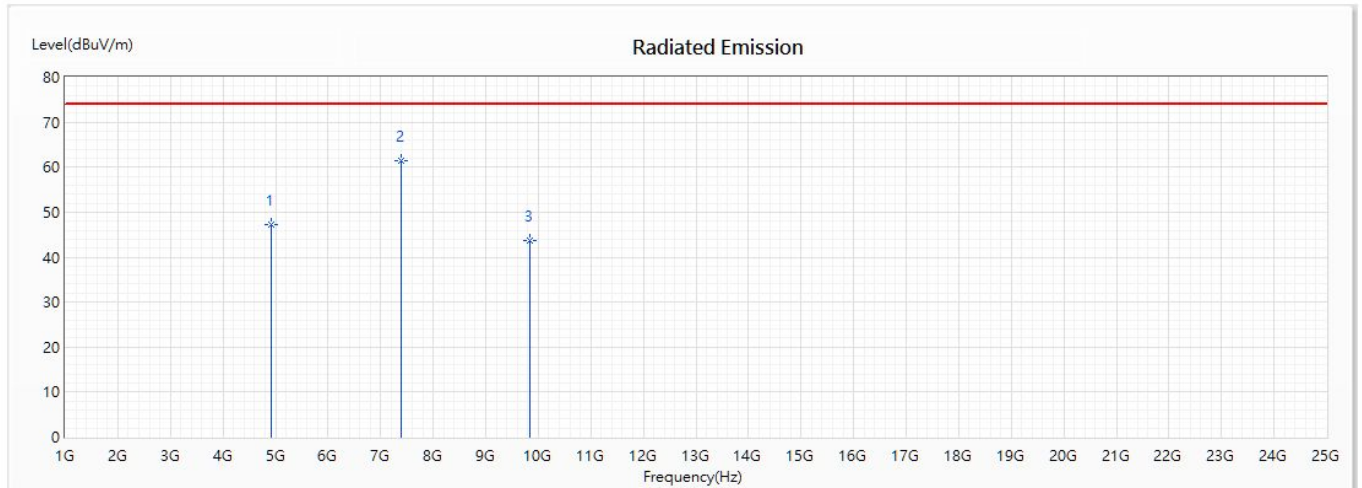
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	45.47	74.00	-28.53	56.71	-11.24	PK
* 2	7386	50.51	74.00	-23.49	64.61	-14.10	PK
3	9848	43.97	74.00	-30.03	57.41	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



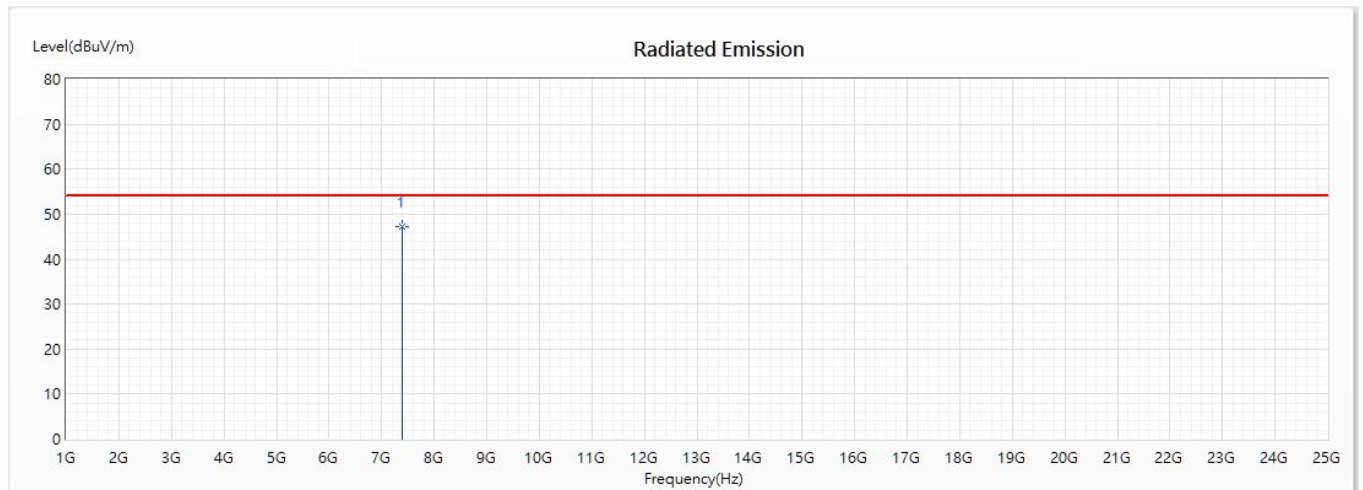
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924.6	47.11	74.00	-26.89	58.34	-11.23	PK
* 2	7386	61.51	74.00	-12.49	75.61	-14.10	PK
3	9848	43.75	74.00	-30.25	57.19	-13.44	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)) (2462 MHz)
 Test Date : 2020/05/26

VERTICAL



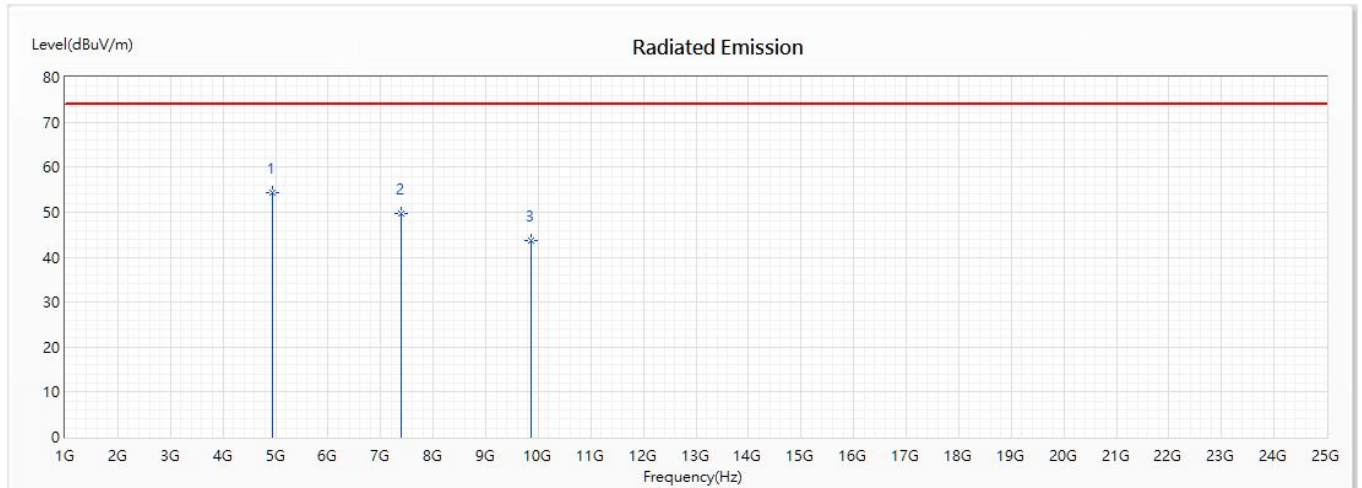
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7386	47.29	54.00	-6.71	61.39	-14.10	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2467 MHz)
 Test Date : 2020/05/26

HORIZONTAL



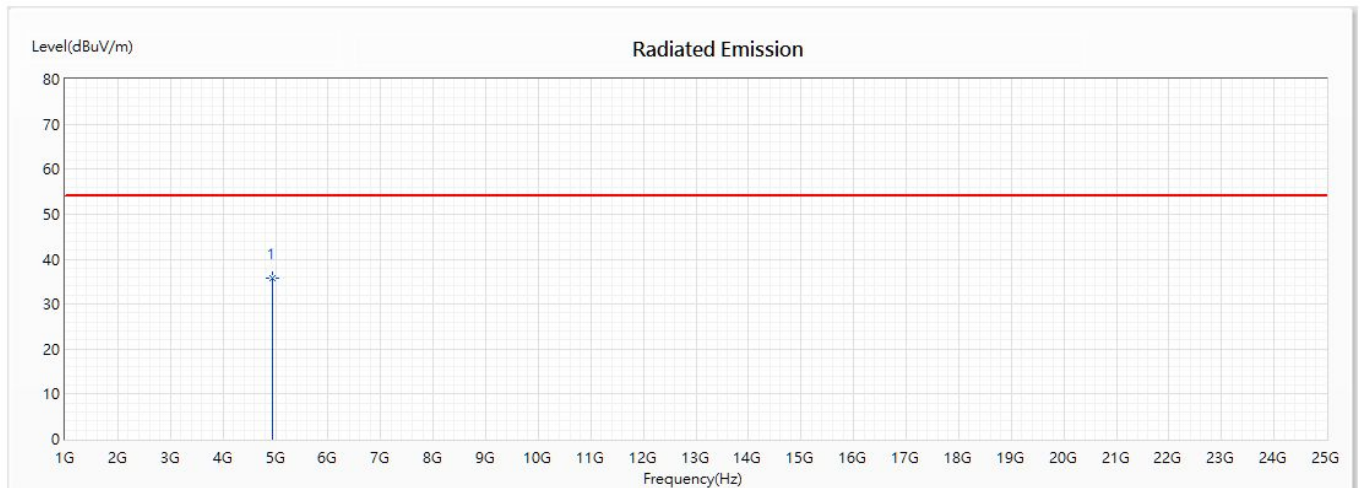
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	54.45	74.00	-19.55	65.59	-11.14	PK
2	7401	49.62	74.00	-24.38	63.84	-14.22	PK
3	9868	43.81	74.00	-30.19	57.47	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2467 MHz)
 Test Date : 2020/05/26

HORIZONTAL



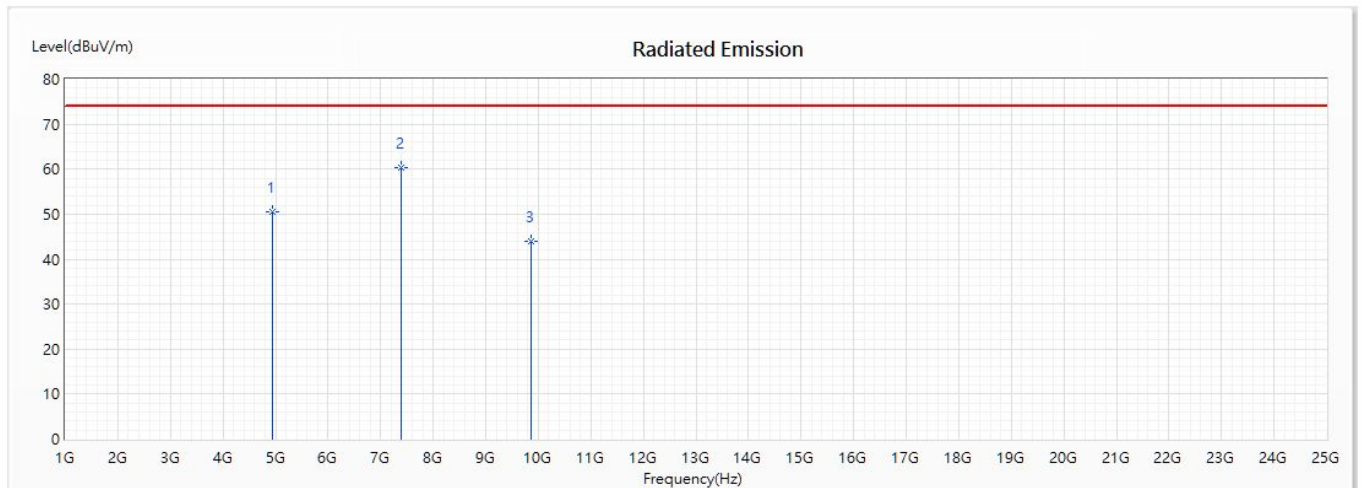
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4934	35.65	54.00	-18.35	46.79	-11.14	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)) (2467 MHz)
 Test Date : 2020/05/26

VERTICAL



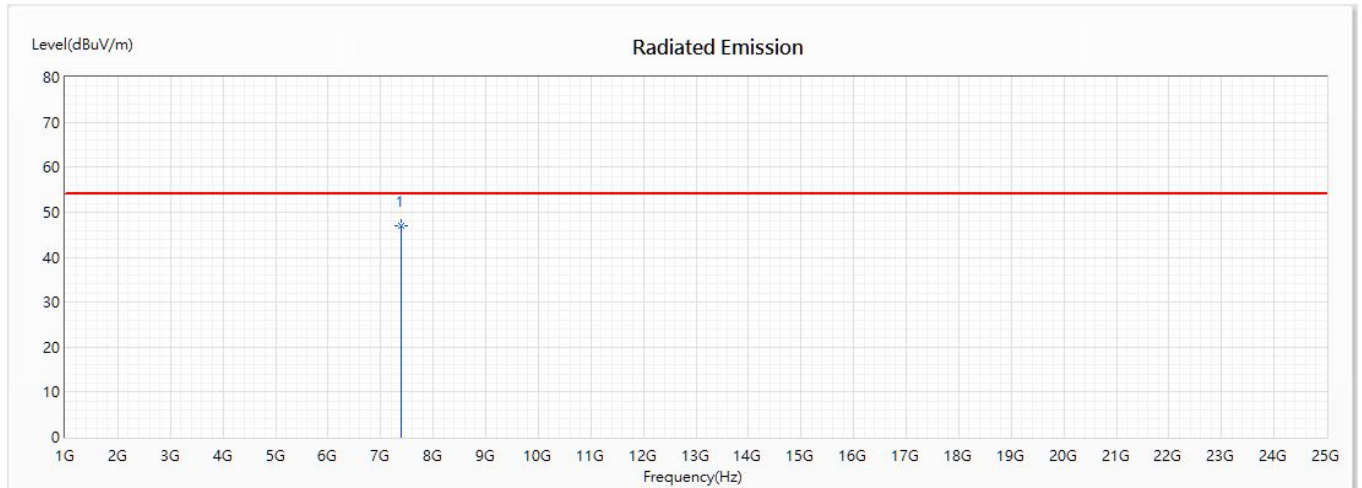
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4934	50.58	74.00	-23.42	61.72	-11.14	PK
* 2	7401	60.32	74.00	-13.68	74.54	-14.22	PK
3	9868	43.91	74.00	-30.09	57.57	-13.66	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)) (2467 MHz)
 Test Date : 2020/05/26

VERTICAL



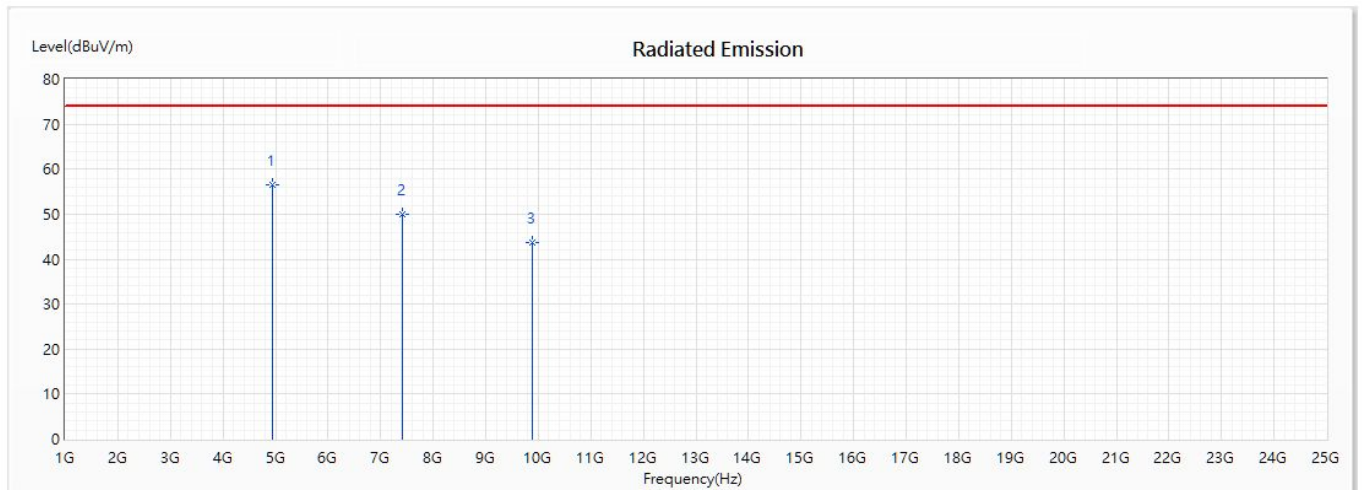
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7401	46.92	54.00	-7.08	61.14	-14.22	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2472 MHz)
 Test Date : 2020/05/26

HORIZONTAL



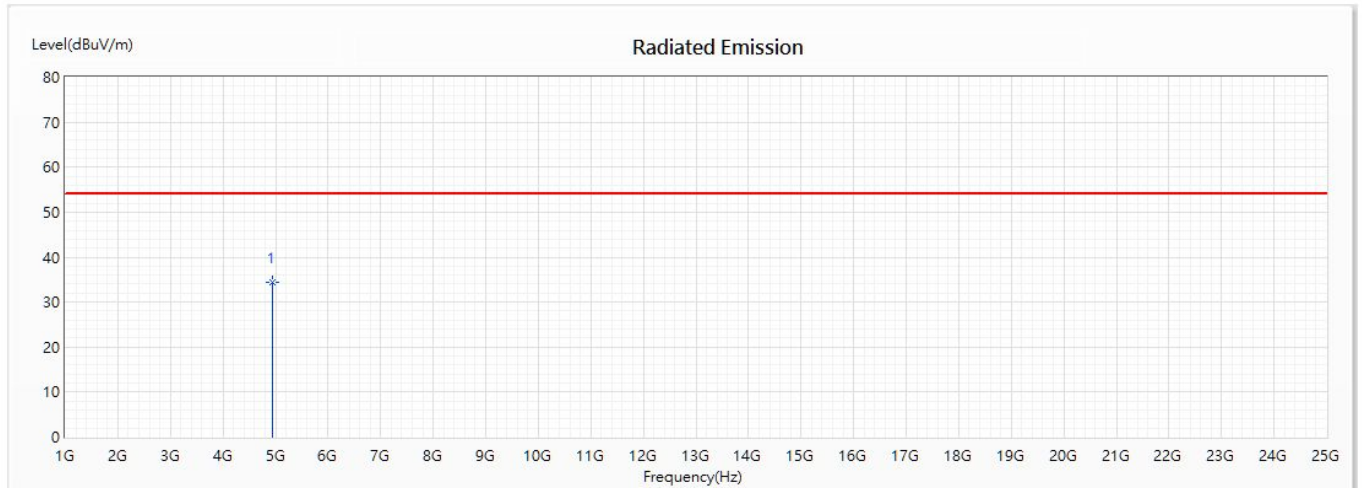
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	56.51	74.00	-17.49	67.55	-11.04	PK
2	7416	49.83	74.00	-24.17	64.20	-14.37	PK
3	9888	43.78	74.00	-30.22	57.66	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2472 MHz)
 Test Date : 2020/05/26

HORIZONTAL



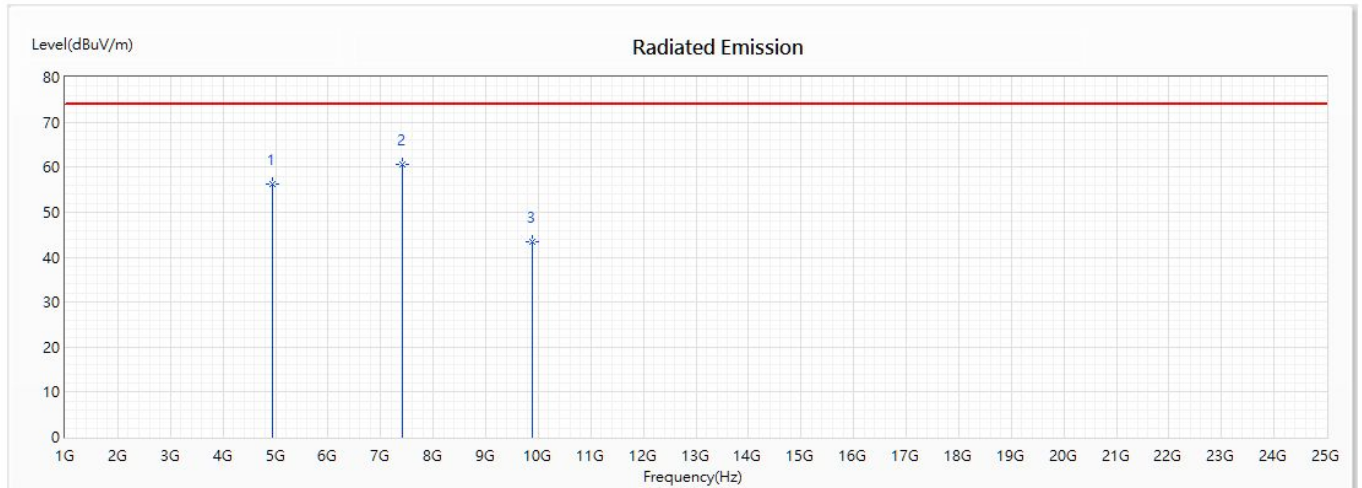
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	4944	34.53	54.00	-19.47	45.57	-11.04	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Portable computer
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)) (2472 MHz)
 Test Date : 2020/05/26

VERTICAL



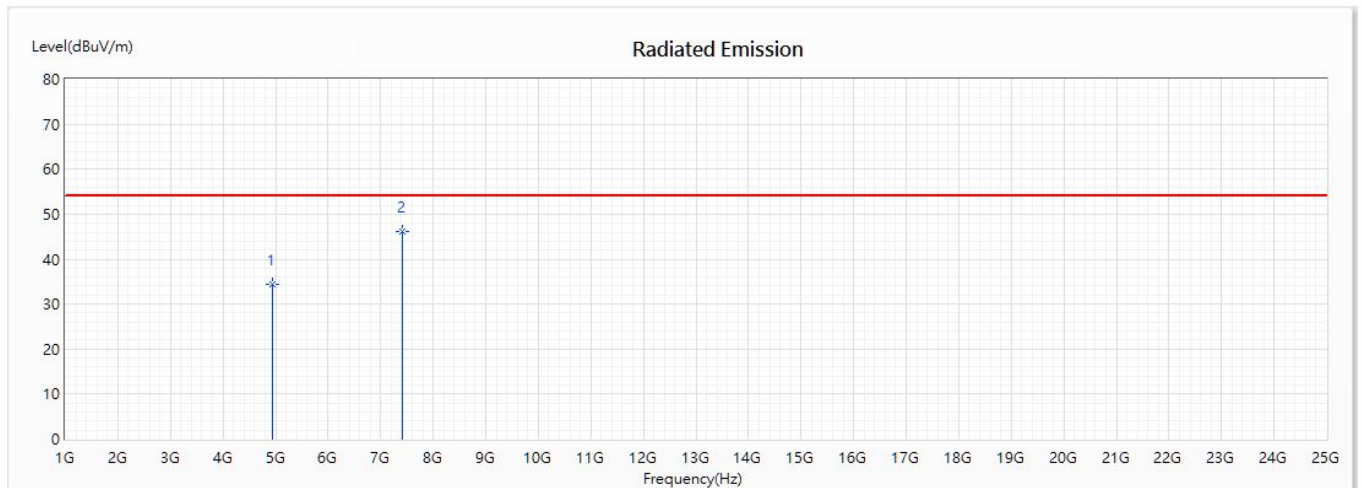
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4944	56.38	74.00	-17.62	67.42	-11.04	PK
* 2	7416	60.65	74.00	-13.35	75.02	-14.37	PK
3	9888	43.32	74.00	-30.68	57.20	-13.88	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
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Product : Portable computer
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 Test Mode : Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2472 MHz)
 Test Date : 2020/05/26

VERTICAL



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4944	34.49	54.00	-19.51	45.53	-11.04	AV
* 2	7416	46.15	54.00	-7.85	60.52	-14.37	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.