FCC Test Report

Product Name	DIGITAL CAMERA
Model No	ZTQ01
FCC ID.	2AVMK-ZTQ01

Applicant	Vecnos Inc.
Address	16-1 Shineicho Tsuzuki-ku,Yokohama-shi, Kanagawa-ken 224-0035 Japan

Date of Receipt	Feb. 14, 2020
Issue Date	May 20, 2020
Report No.	2020267R-RFUSP73V00-A
Report Version	V1.0

Testing Laboratory
3023

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

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Product Name	DIGITAL CAMERA
Applicant	Vecnos Inc.
Address	16-1 Shineicho Tsuzuki-ku,Yokohama-shi, Kanagawa-ken 224-0035 Japan
Manufacturer	Vecnos Inc.
Model No.	ZTQ01
FCC ID.	2AVMK-ZTQ01
EUT Rated Voltage	DC 5V by Battery
EUT Test Voltage	DC 5V by Battery
Trade Name	VECNOS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By : Rita Huang

(Senior Adm. Specialist / Rita Huang)

Tested By : Yun Che Chen

(Engineer / Yunche Chen)

Approved By :

(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	DIGITAL CAMERA
Trade Name	VECNOS
Model No.	ZTQ01
FCC ID.	2AVMK-ZTQ01
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW
Number of Channels	802.11b/g/n-20MHz:11
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 72.2Mbps
Type of Modulation	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
USB Cable	Shielded, 0.5m
Charging Stand	MFR: Vecnos Inc., M/N: ZTQ01

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	AMPAK	CR33900(AP6236AM)	Chip Antenna	-4.04dBi in 2.4GHz

Note: The antenna of EUT conforms to FCC 15.203.

802.11b/g/n-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		

Note:

1. The EUT is a DIGITAL CAMERA with built-in WLAN and Bluetooth transceiver, this report for WLAN.
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. (802.11b is 1Mbps、802.11g is 6Mbps、802.11n(20M-BW) is 7.2Mbps).
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

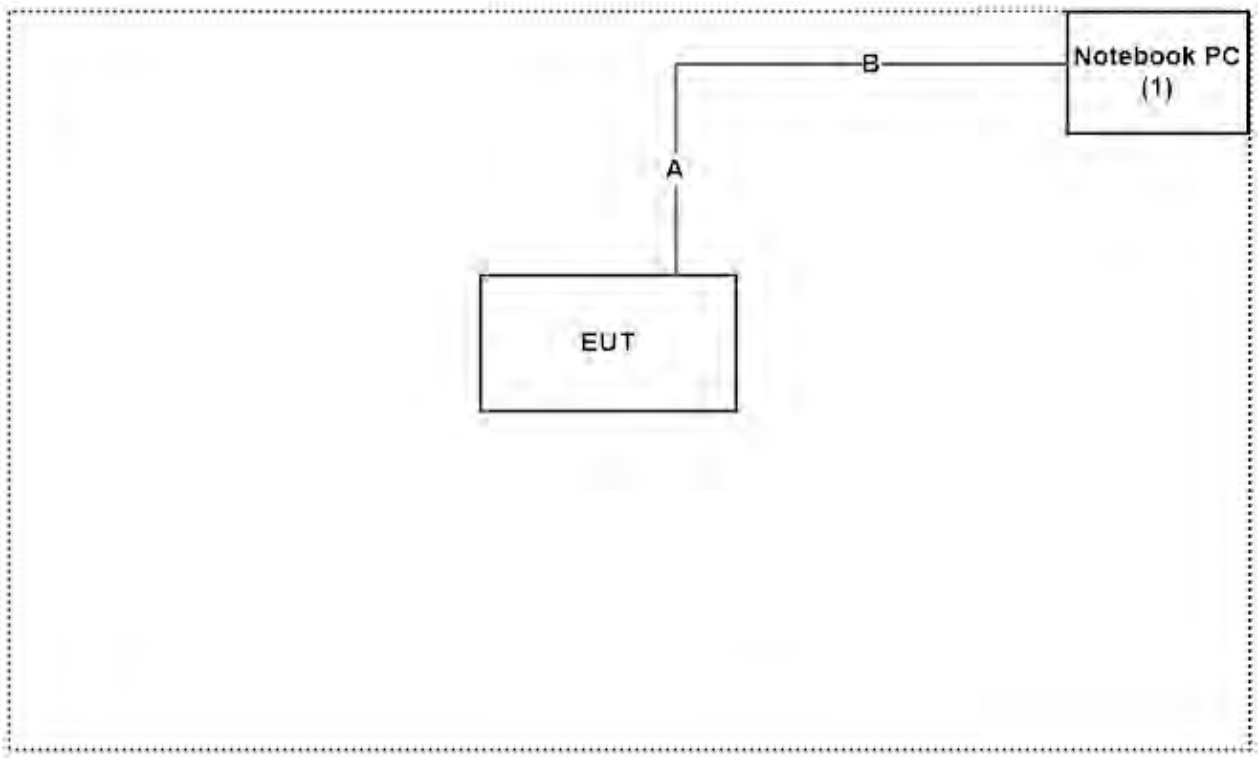
1.3. Tested System Details

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	Notebook PC	DELL	Latitude 5580	GDZN7H2	Non-Shielded, 0.8m

Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 0.5m
B	USB Cable	Shielded, 1.5m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “VendorCommandTool, Version.01.04.20200218” 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 ℃	25.1 ℃
	Humidity (%RH)	10~90 %	55 %
Radiated Emission	Temperature (°C)	10~40 ℃	19.9 ℃
	Humidity (%RH)	10~90 %	63 %
Conductive	Temperature (°C)	10~40 ℃	21.21 ℃
	Humidity (%RH)	10~90 %	65.3 %

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 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

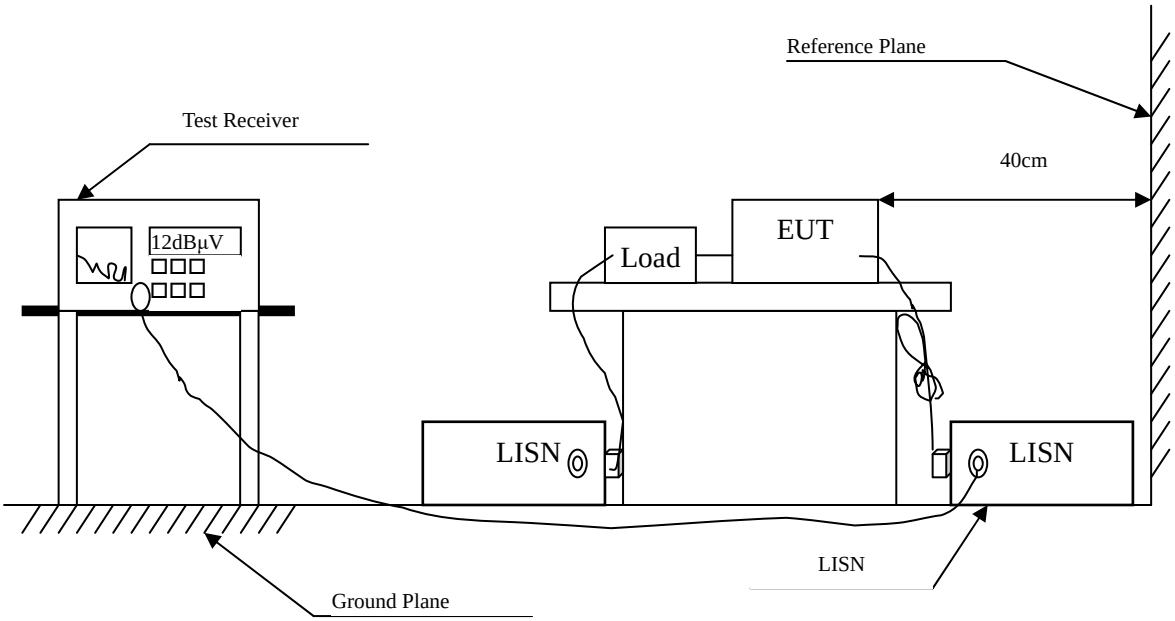
Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

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 (dBµV) 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 invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

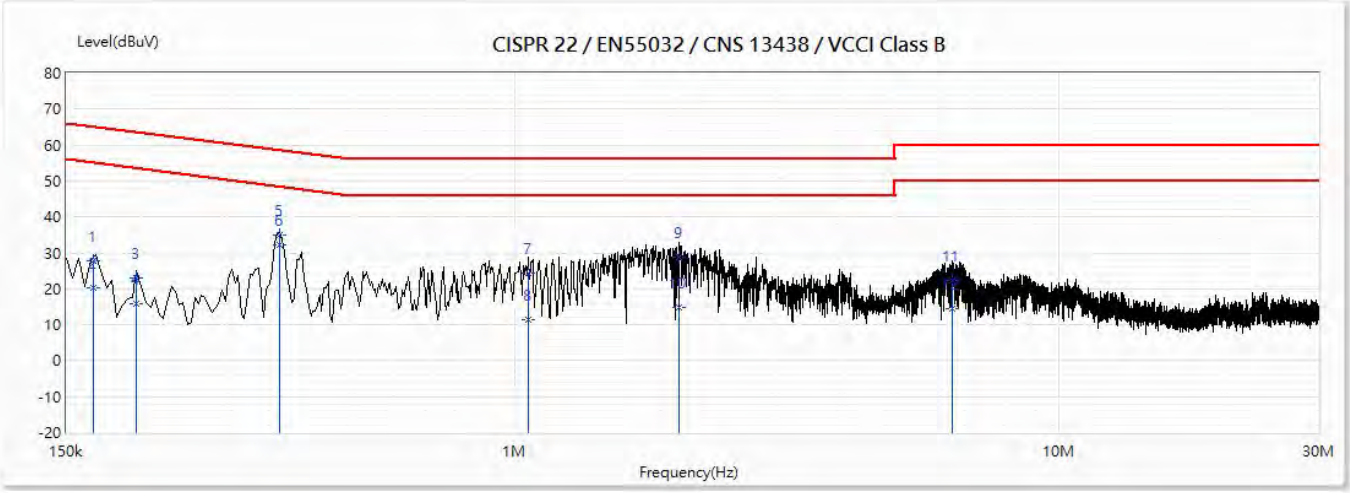
2.4. Uncertainty

± 2.26 dB

2.5. Test Result of Conducted Emission

Product : DIGITAL CAMERA
Test Item : Conducted Emission Test
Power Line : Line 1
Test Date : 2020/05/20
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437MHz)

Line1



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.168	27.72	65.06	-37.34	17.92	9.80	QP
2	0.168	20.17	55.06	-34.89	10.37	9.80	AV
3	0.202	22.88	63.55	-40.67	13.09	9.79	QP
4	0.202	15.77	53.55	-37.78	5.98	9.79	AV
5	0.369	35.11	58.52	-23.41	25.32	9.79	QP
*6	0.369	32.24	48.52	-16.28	22.45	9.79	AV
7	1.06	24.40	56.00	-31.60	14.58	9.82	QP
8	1.06	11.34	46.00	-34.66	1.52	9.82	AV
9	1.999	28.86	56.00	-27.14	18.99	9.87	QP
10	1.999	14.81	46.00	-31.19	4.94	9.87	AV
11	6.366	22.28	60.00	-37.72	12.27	10.01	QP
12	6.366	14.36	50.00	-35.64	4.35	10.01	AV

Remark:

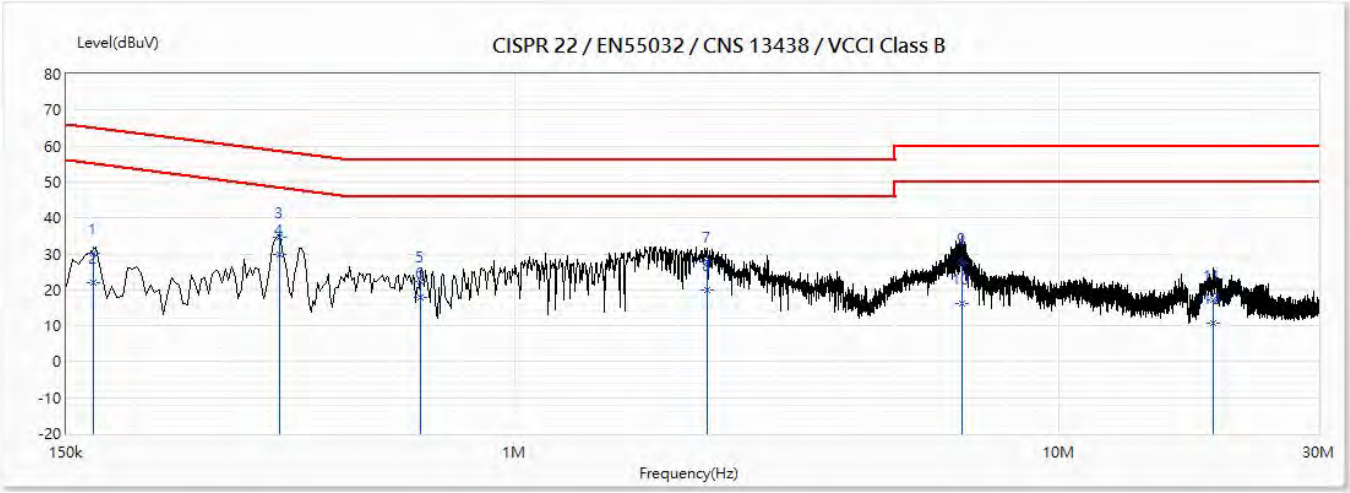
1. "*" means this data is the worst emission level;"!" means this data is over limit.

2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).

3. Margin=Emission Level-Limit

Product	:	DIGITAL CAMERA
Test Item	:	Conducted Emission Test
Power Line	:	Line 2
Test Date	:	2020/05/20
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437MHz)

N



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.168	30.32	65.04	-34.72	20.54	9.78	QP
2	0.168	22.11	55.04	-32.93	12.33	9.78	AV
3	0.37	34.76	58.51	-23.75	24.99	9.78	QP
*4	0.37	29.77	48.51	-18.74	19.99	9.78	AV
5	0.671	22.24	56.00	-33.76	12.45	9.79	QP
6	0.671	17.90	46.00	-28.10	8.11	9.79	AV
7	2.252	27.76	56.00	-28.24	17.89	9.87	QP
8	2.252	20.00	46.00	-26.00	10.13	9.87	AV
9	6.627	27.32	60.00	-32.68	17.30	10.01	QP
10	6.627	16.32	50.00	-33.68	6.30	10.01	AV
11	19.204	17.37	60.00	-42.63	7.00	10.37	QP
12	19.204	10.85	50.00	-39.15	0.48	10.37	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 : DIGITAL CAMERA
Test Item : Peak Power Output Data
Test Date : 2020/04/13
Test Mode : Mode 1: 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	10.25	--	--	--	12.44	<30dBm	Pass
06	2437	10.02	9.95	9.87	9.81	12.11	<30dBm	Pass
11	2462	9.91	--	--	--	12.11	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : DIGITAL CAMERA
Test Item : Peak Power Output Data
Test Date : 2020/04/13
Test Mode : Mode 2: 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	10.2	--	--	--	--	--	--	--	19.06	<30dBm	Pass
06	2437	10.1	10	9.95	9.88	9.82	9.75	9.68	9.61	19.10	<30dBm	Pass
11	2462	10.2	--	--	--	--	--	--	--	19.10	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : DIGITAL CAMERA
Test Item : Peak Power Output Data
Test Date : 2020/04/13
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

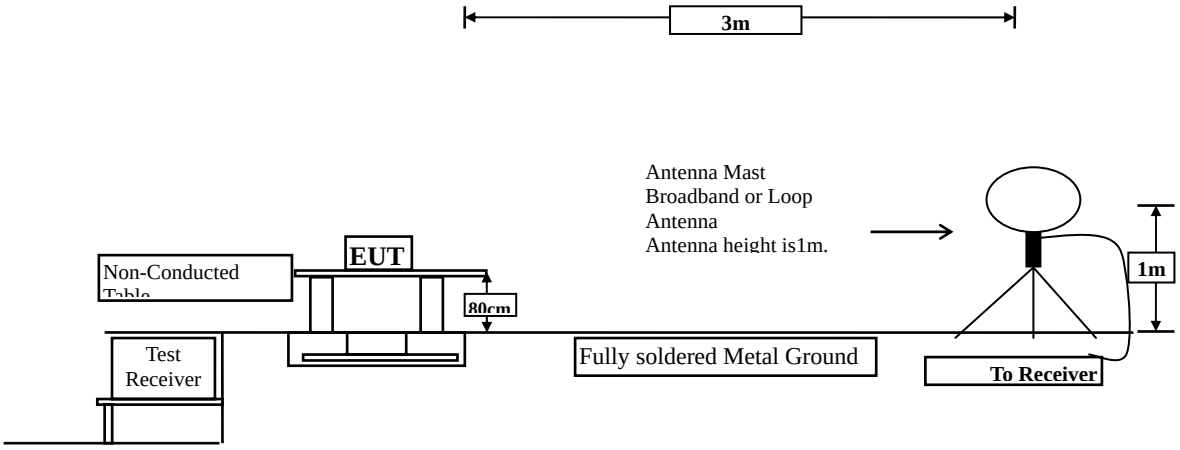
Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT0		
		Measurement Level (dBm)										
01	2412	10.1	--	--	--	--	--	--	--	19.23	<30dBm	Pass
06	2437	10	9.96	9.88	9.81	9.73	9.66	9.58	9.51	19.02	<30dBm	Pass
11	2462	9.78	--	--	--	--	--	--	--	18.87	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

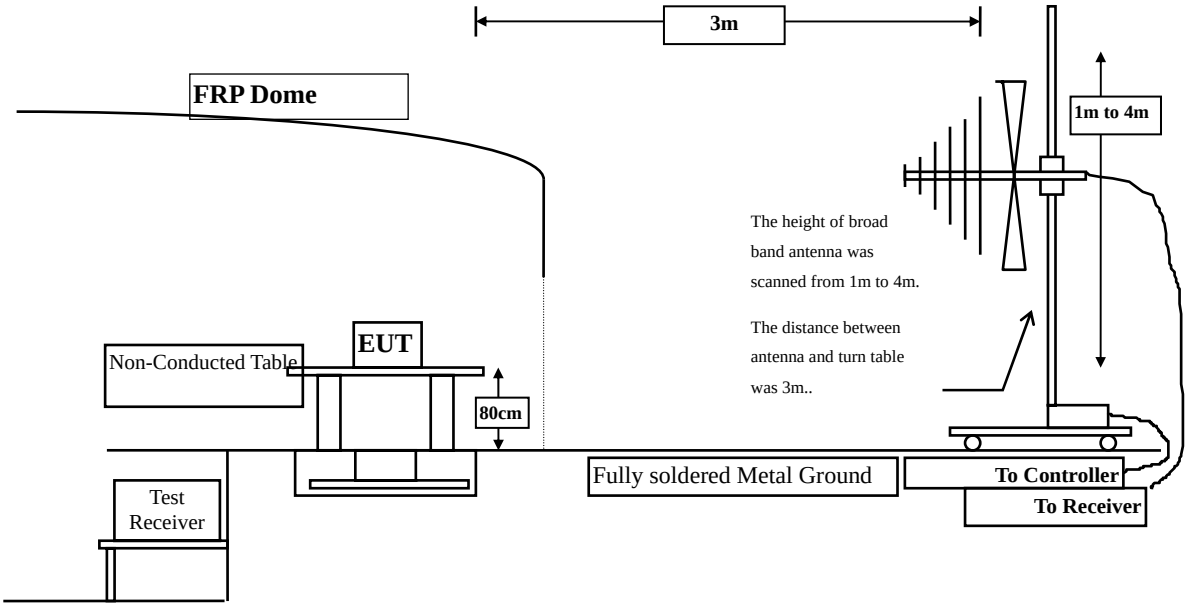
4. Radiated Emission

4.1. Test Setup

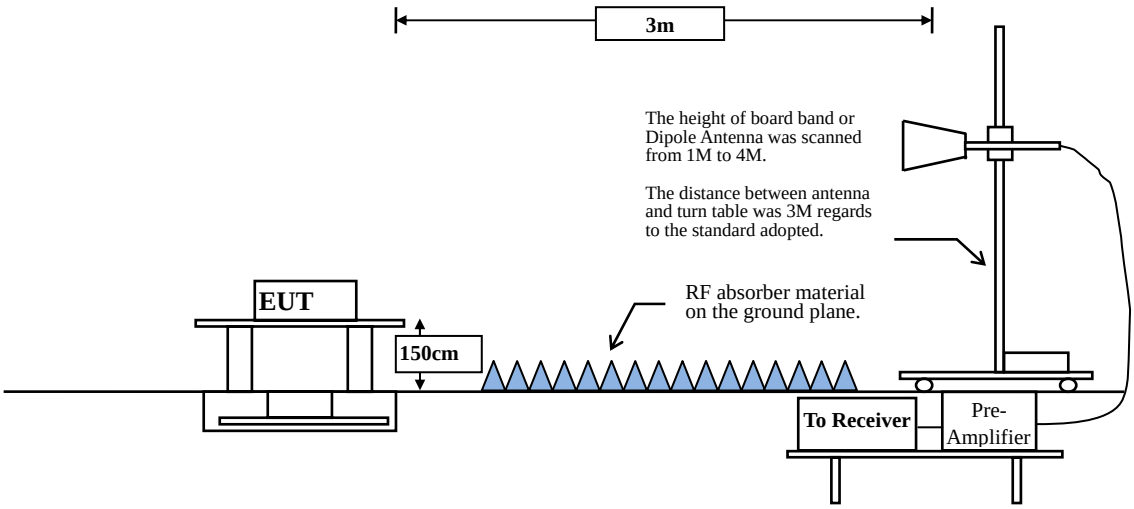
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.2. 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(a) 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: E field strength (dBμV/m) = 20 log E field strength (uV/m)

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 form 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 ≥ 3 x 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 = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 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)
802.11b	100.00	1.0000	1000	10
802.11g	97.25	2.0507	488	500
802.11n20	95.65	1.9130	523	1000

Note: Duty Cycle Refer to Section 9.

4.4. Uncertainty

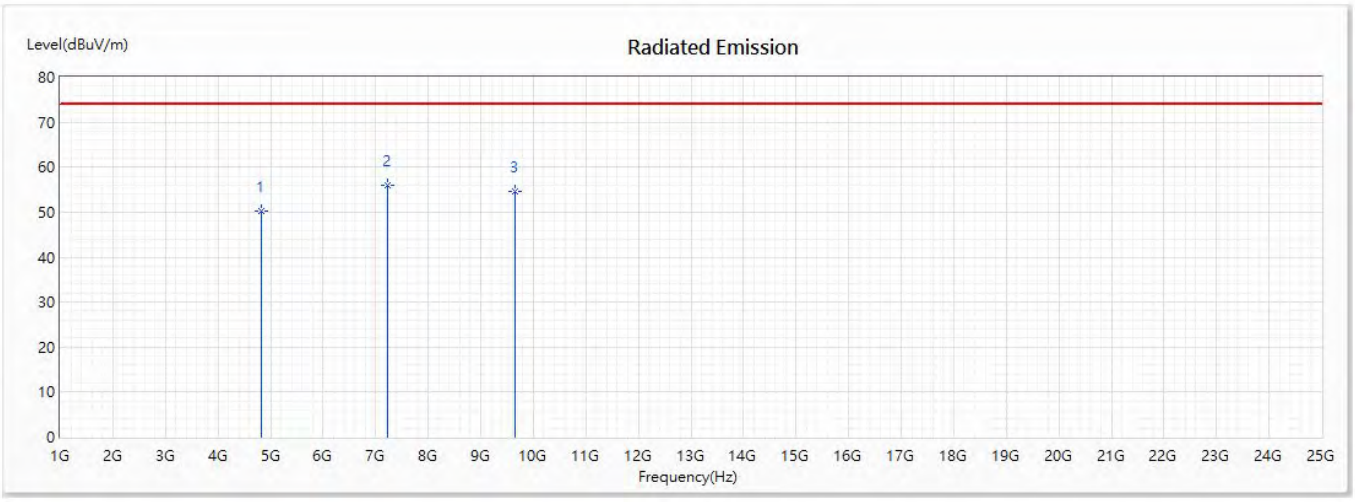
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

4.5. Test Result of Radiated Emission

Product	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Horizontal



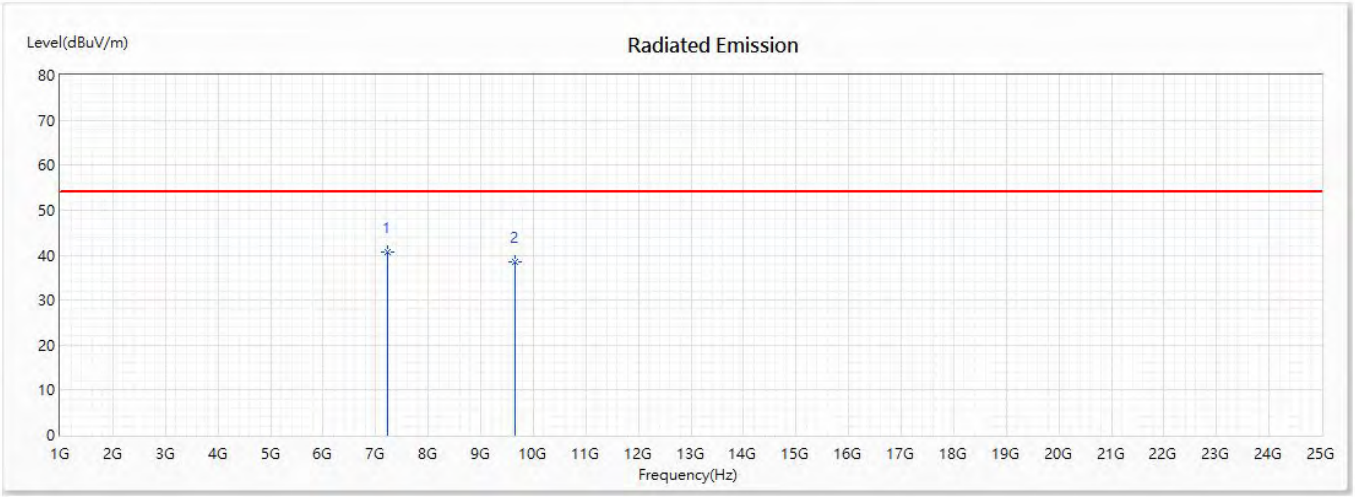
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	50.27	74.00	-23.73	45.49	4.78	PK
* 2	7236	56.05	74.00	-17.95	43.98	12.07	PK
3	9648	54.49	74.00	-19.51	42.59	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Horizontal



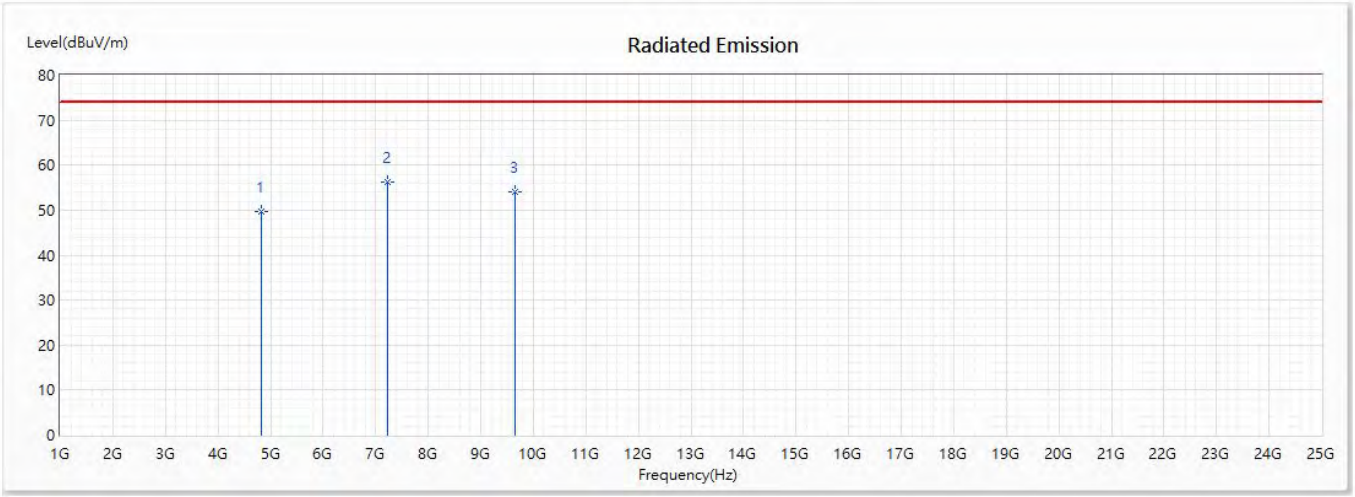
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	40.76	54.00	-13.24	28.69	12.07	AV
2	9648	38.57	54.00	-15.43	26.67	11.90	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Vertical



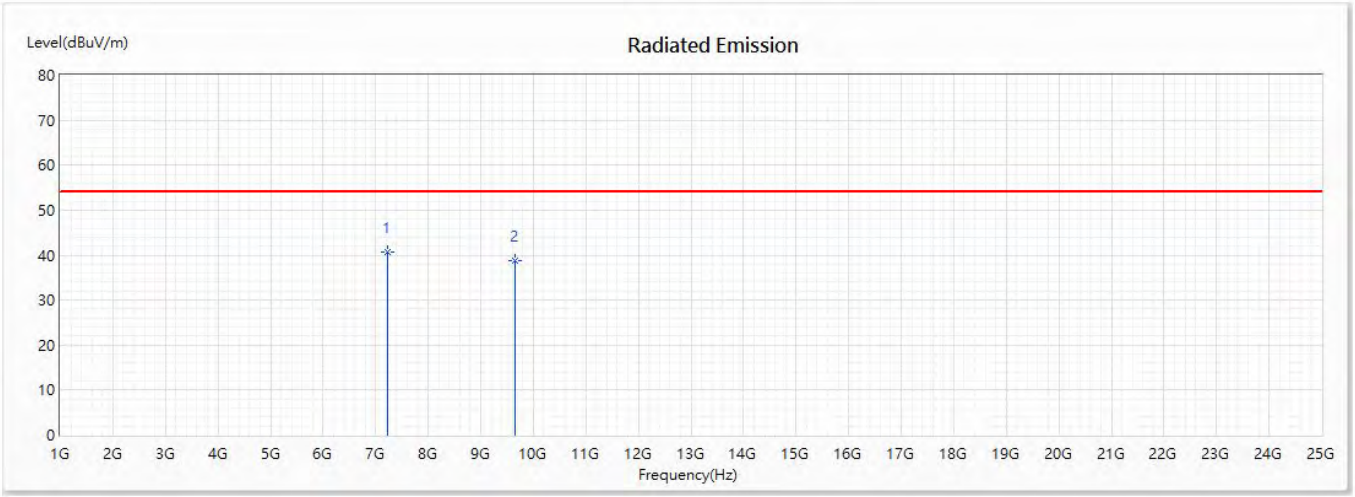
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	49.61	74.00	-24.39	44.83	4.78	PK
* 2	7236	56.37	74.00	-17.63	44.30	12.07	PK
3	9648	54.06	74.00	-19.94	42.16	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Vertical



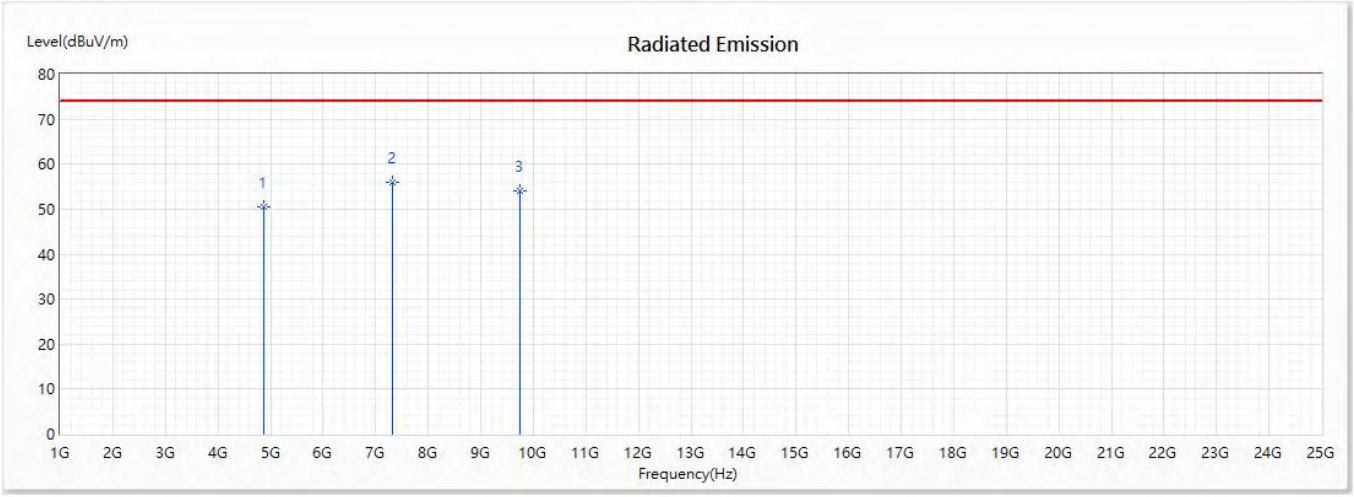
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	40.81	54.00	-13.19	28.74	12.07	AV
2	9648	38.65	54.00	-15.35	26.75	11.90	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Horizontal



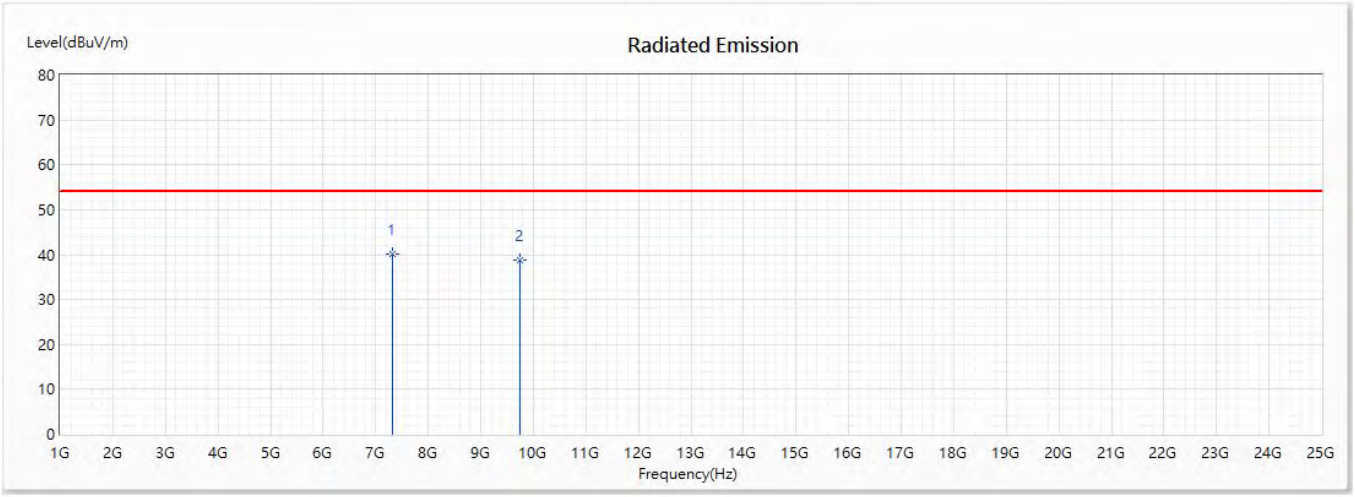
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	50.49	74.00	-23.51	45.25	5.24	PK
* 2	7311	55.99	74.00	-18.01	44.15	11.84	PK
3	9748	54.05	74.00	-19.95	42.18	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Horizontal



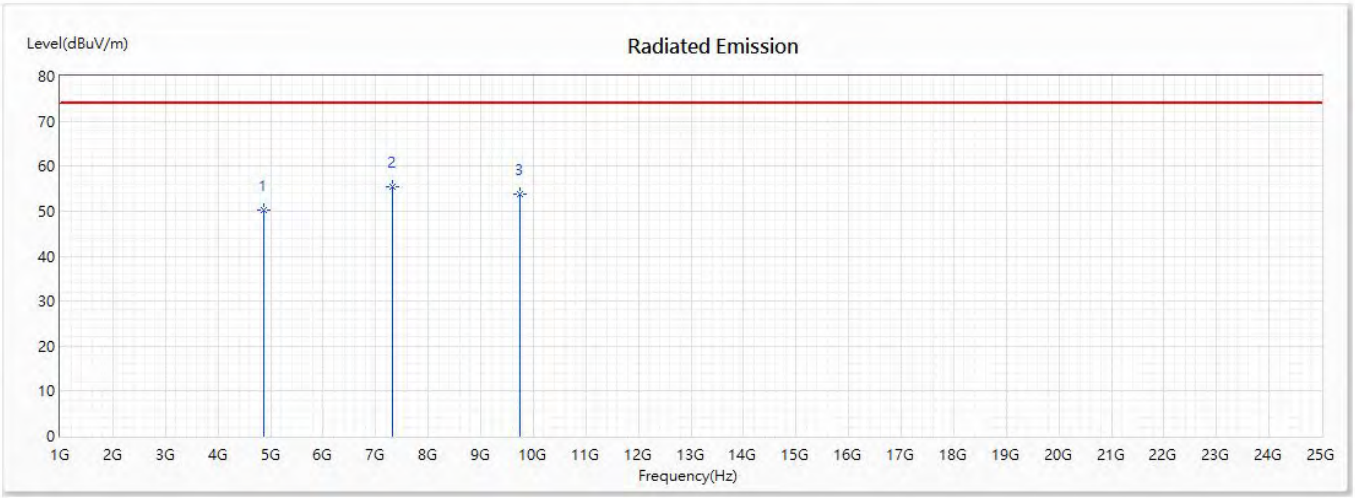
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.23	54.00	-13.77	28.39	11.84	AV
2	9748	38.66	54.00	-15.34	26.79	11.87	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Vertical



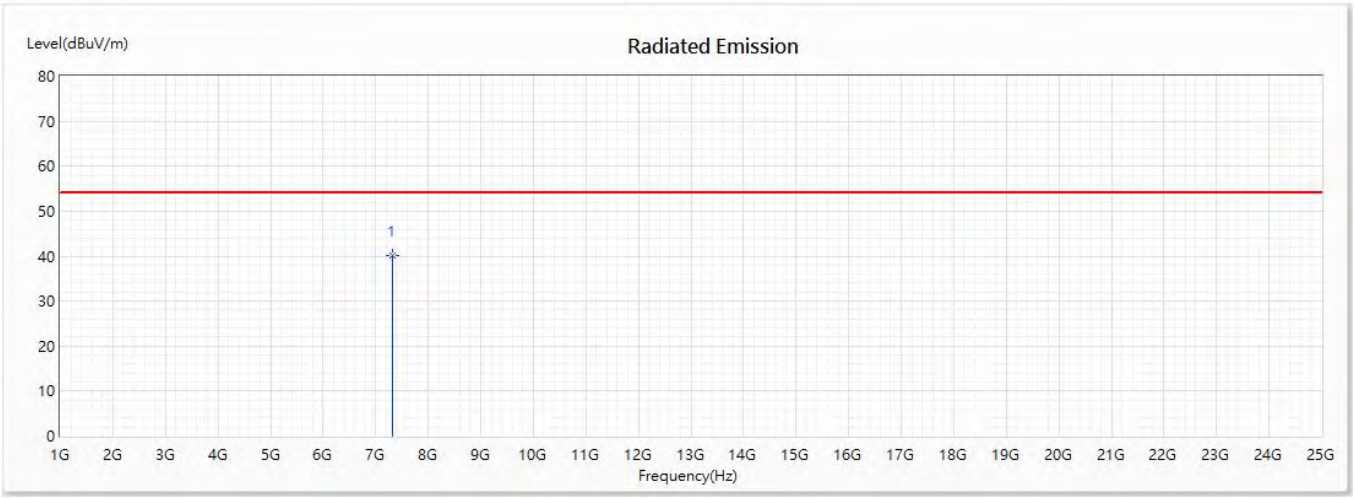
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	50.16	74.00	-23.84	44.92	5.24	PK
* 2	7311	55.51	74.00	-18.49	43.67	11.84	PK
3	9748	53.75	74.00	-20.25	41.88	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Vertical



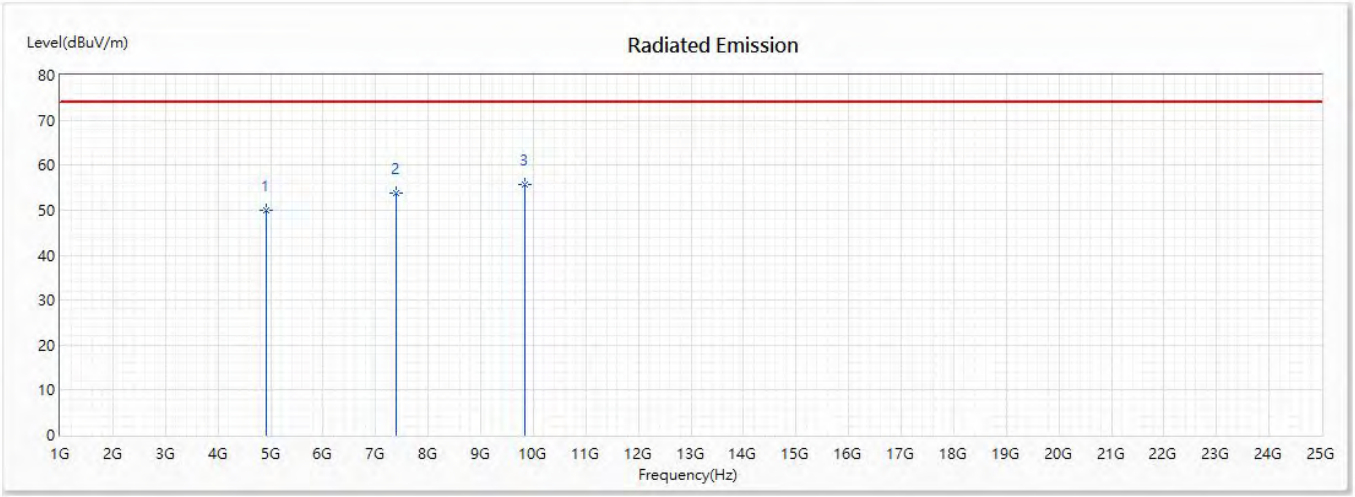
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.25	54.00	-13.75	28.41	11.84	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Horizontal



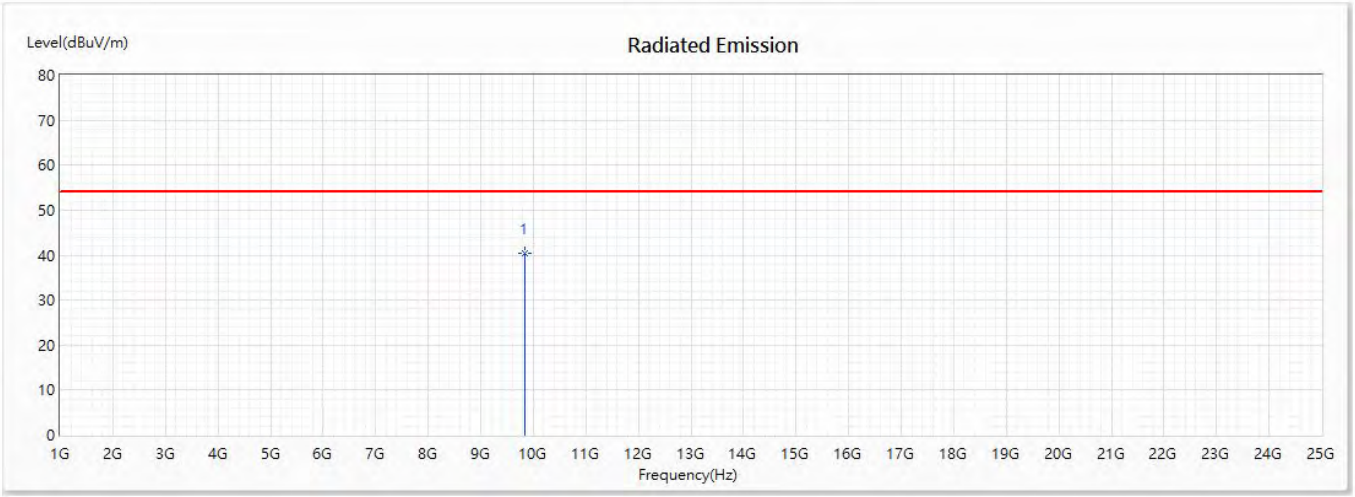
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.85	74.00	-24.15	44.15	5.70	PK
2	7386	53.78	74.00	-20.22	42.44	11.34	PK
* 3	9848	55.82	74.00	-18.18	43.44	12.38	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Horizontal



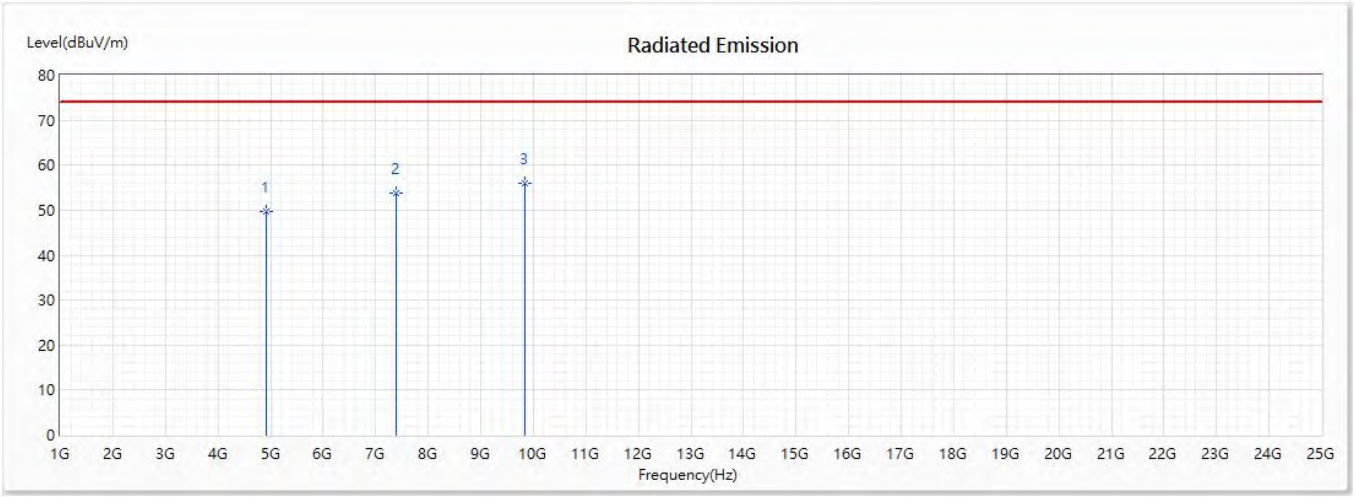
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	40.48	54.00	-13.52	28.10	12.38	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Vertical



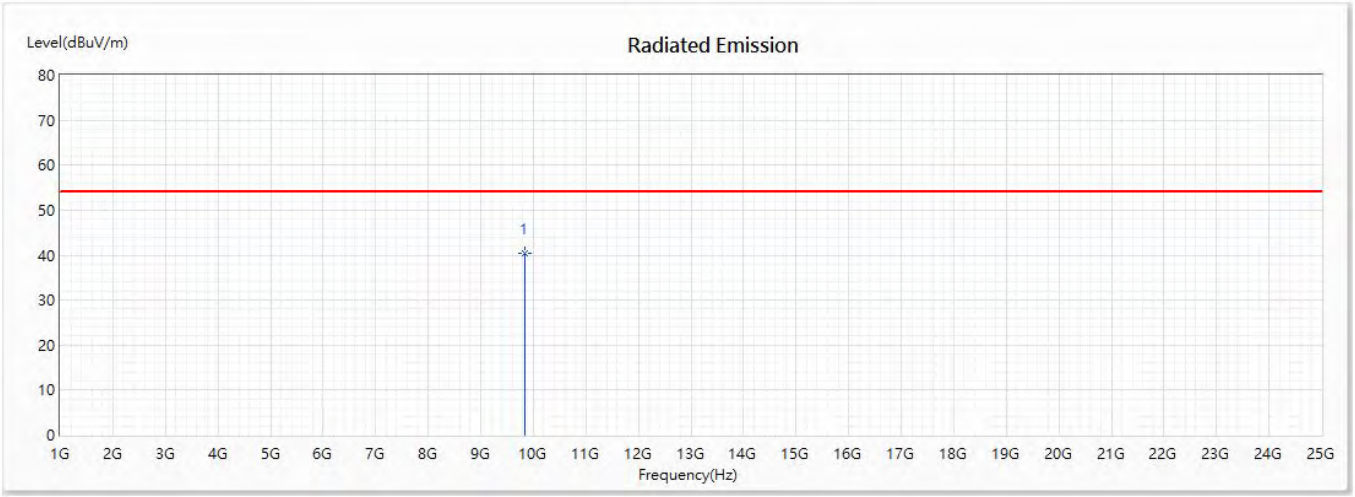
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.73	74.00	-24.27	44.03	5.70	PK
2	7386	53.79	74.00	-20.21	42.45	11.34	PK
* 3	9848	56.01	74.00	-17.99	43.63	12.38	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Vertical



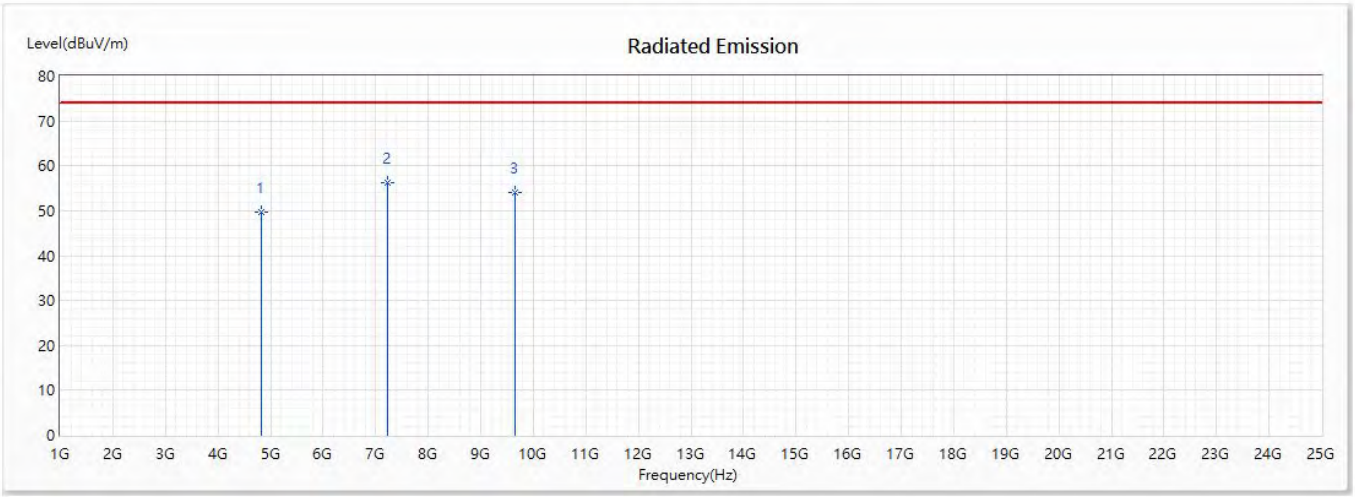
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	40.51	54.00	-13.49	28.13	12.38	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Horizontal



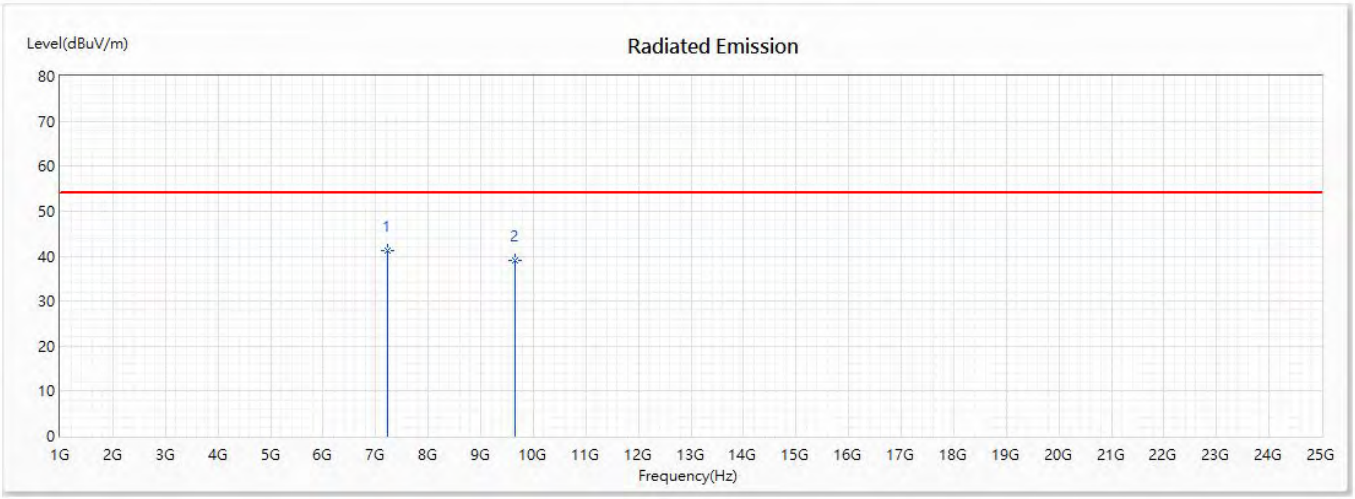
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	49.62	74.00	-24.38	44.84	4.78	PK
* 2	7236	56.17	74.00	-17.83	44.10	12.07	PK
3	9648	54.07	74.00	-19.93	42.17	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Horizontal



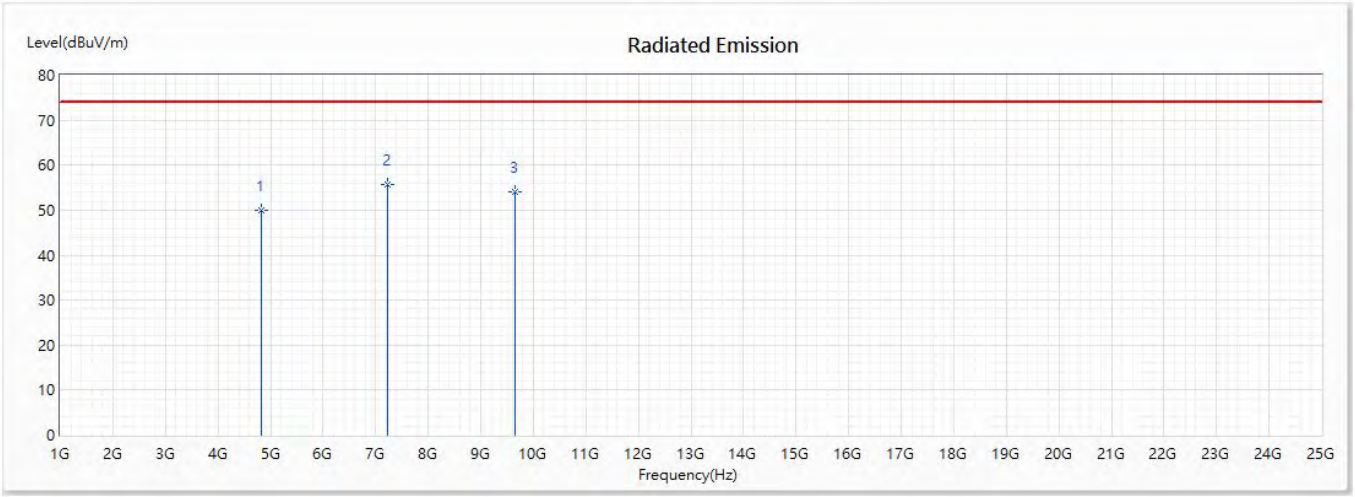
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	41.11	54.00	-12.89	29.04	12.07	AV
2	9648	39.12	54.00	-14.88	27.22	11.90	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Vertical



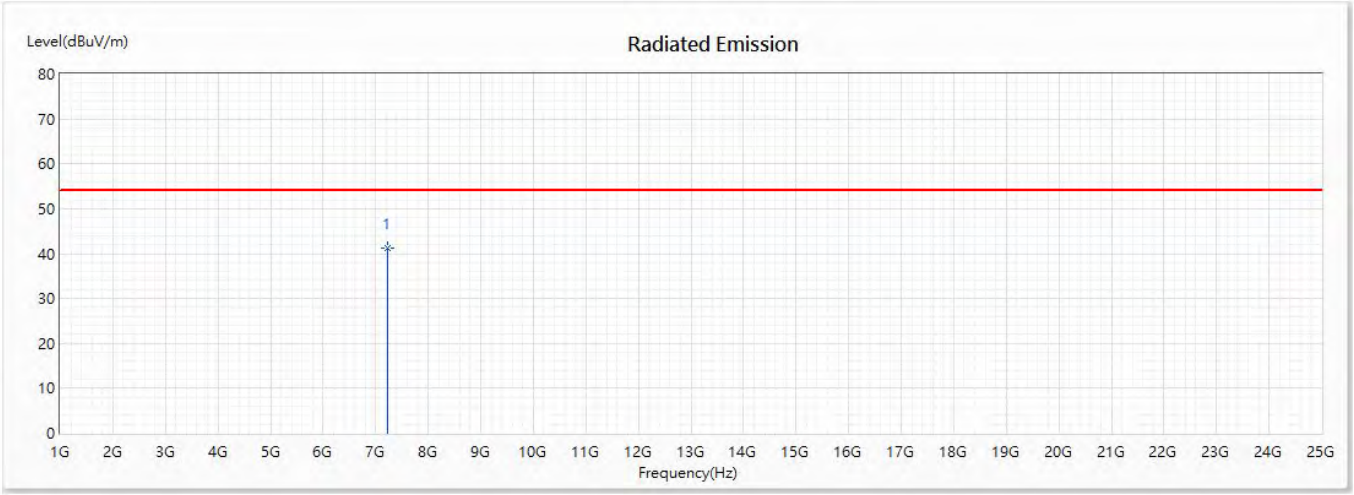
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	49.92	74.00	-24.08	45.14	4.78	PK
* 2	7236	55.65	74.00	-18.35	43.58	12.07	PK
3	9648	53.95	74.00	-20.05	42.05	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Vertical



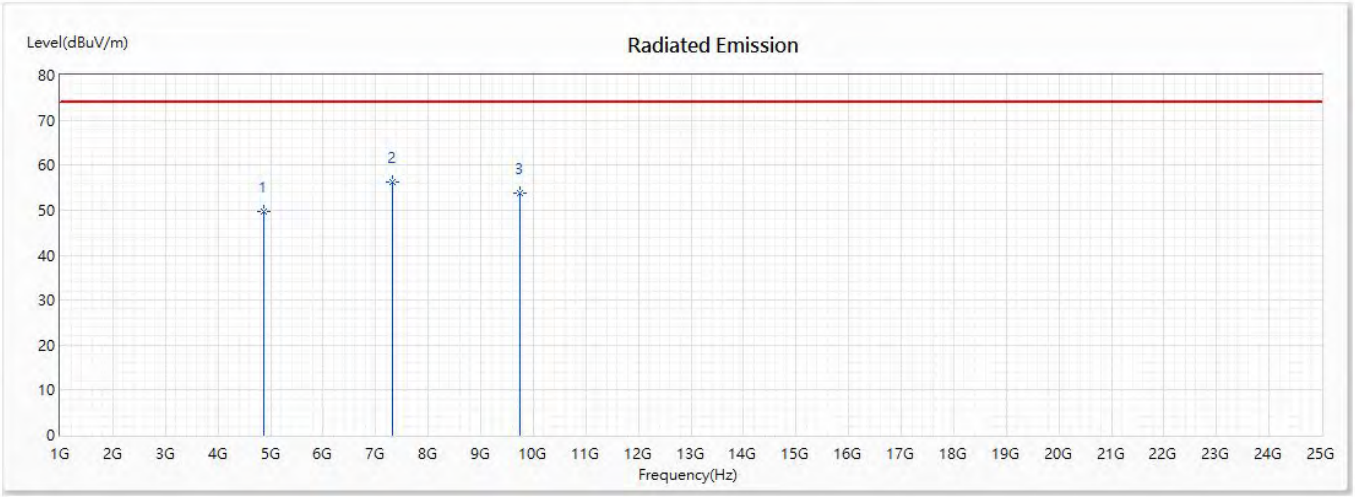
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	41.16	54.00	-12.84	29.09	12.07	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Horizontal



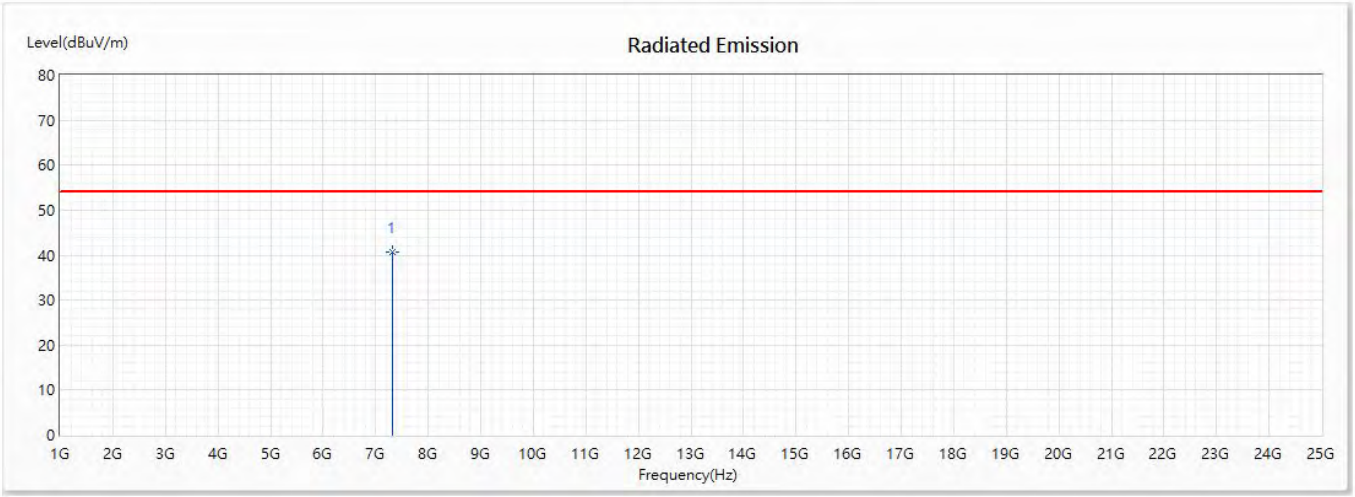
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	49.78	74.00	-24.22	44.54	5.24	PK
* 2	7311	56.11	74.00	-17.89	44.27	11.84	PK
3	9748	53.82	74.00	-20.18	41.95	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Horizontal



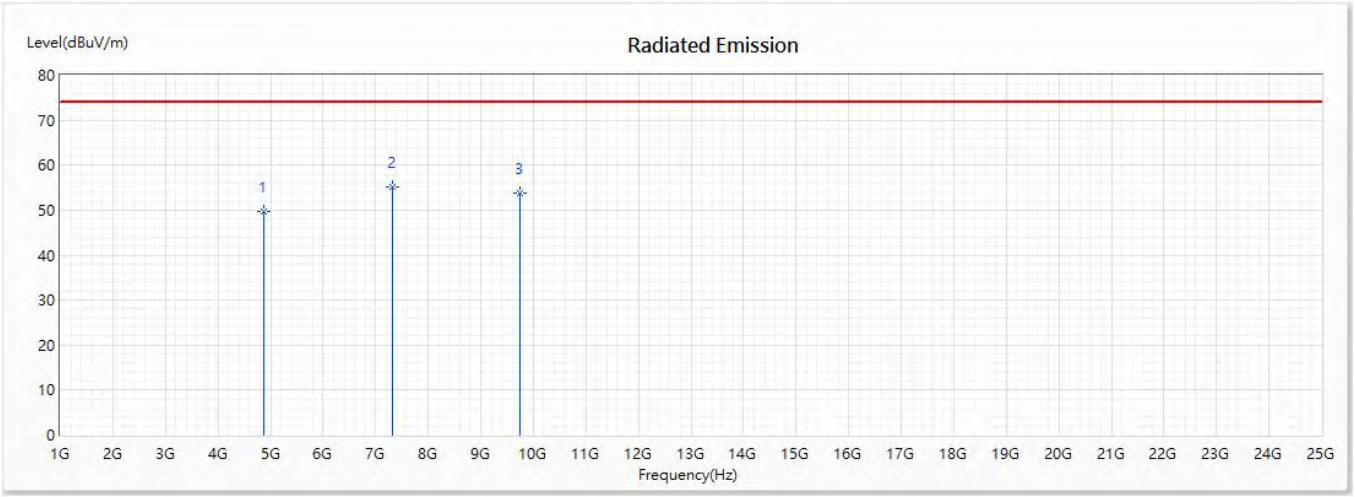
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.65	54.00	-13.35	28.81	11.84	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Vertical



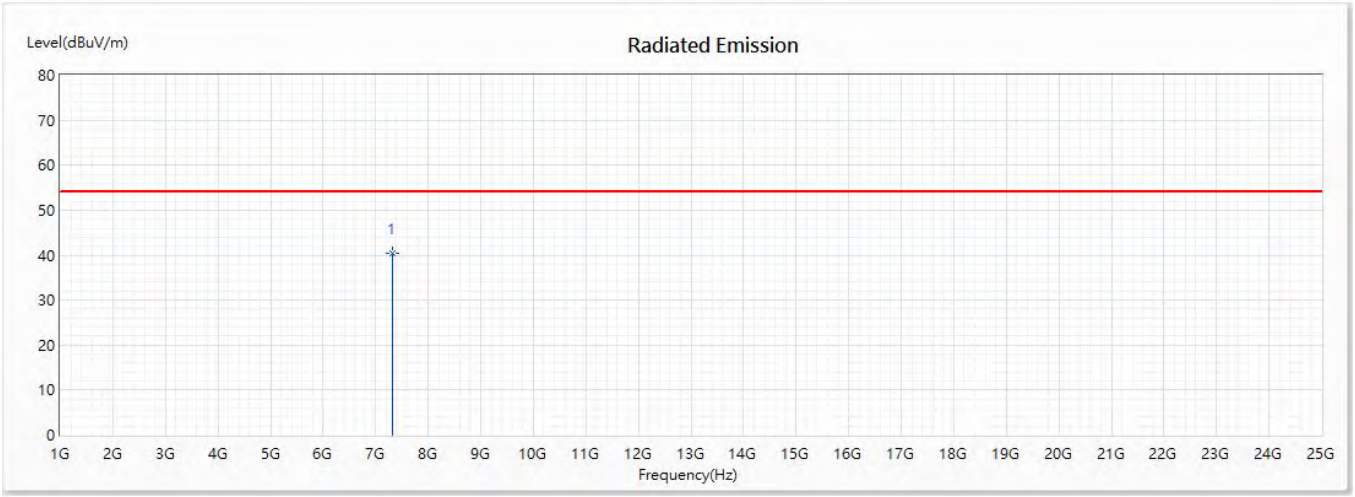
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	49.57	74.00	-24.43	44.33	5.24	PK
* 2	7311	55.05	74.00	-18.95	43.21	11.84	PK
3	9748	53.72	74.00	-20.28	41.85	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Vertical



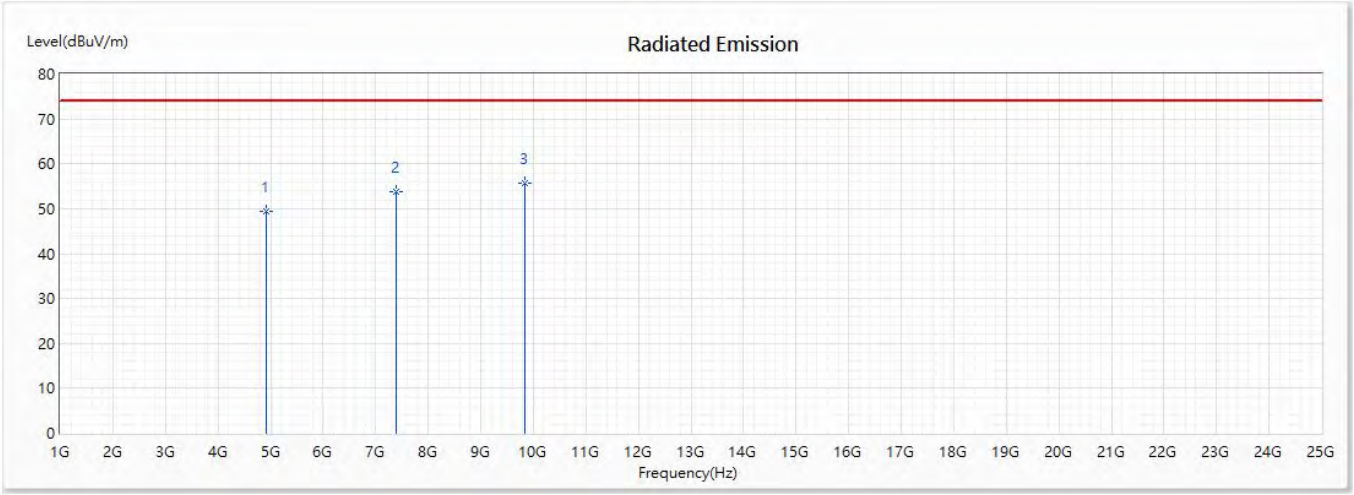
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.52	54.00	-13.48	28.68	11.84	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Horizontal



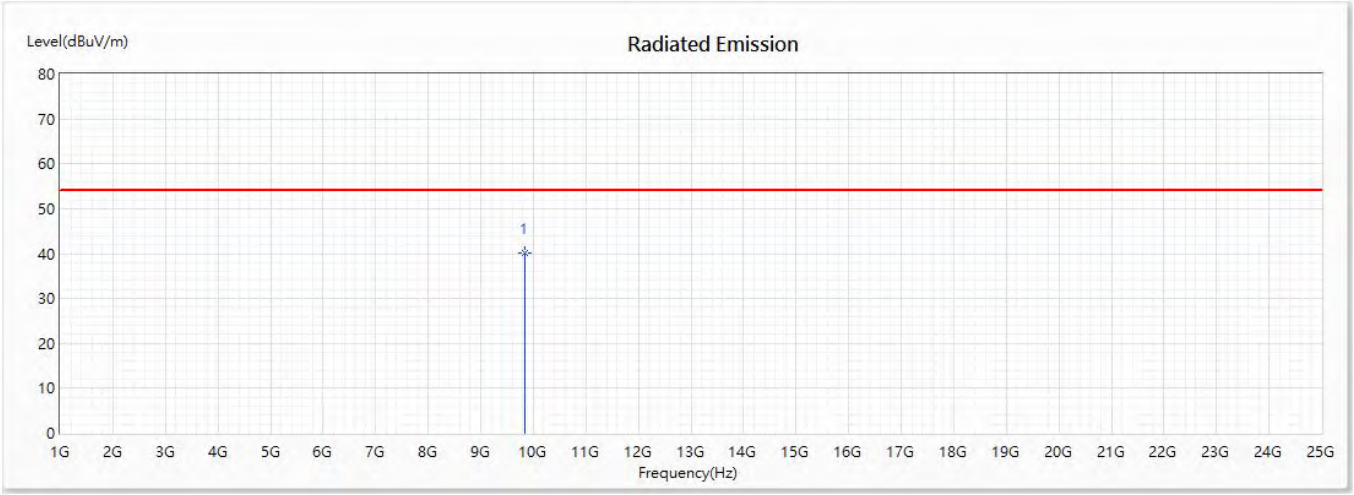
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.47	74.00	-24.53	43.77	5.70	PK
2	7386	53.66	74.00	-20.34	42.32	11.34	PK
* 3	9848	55.68	74.00	-18.32	43.30	12.38	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Horizontal



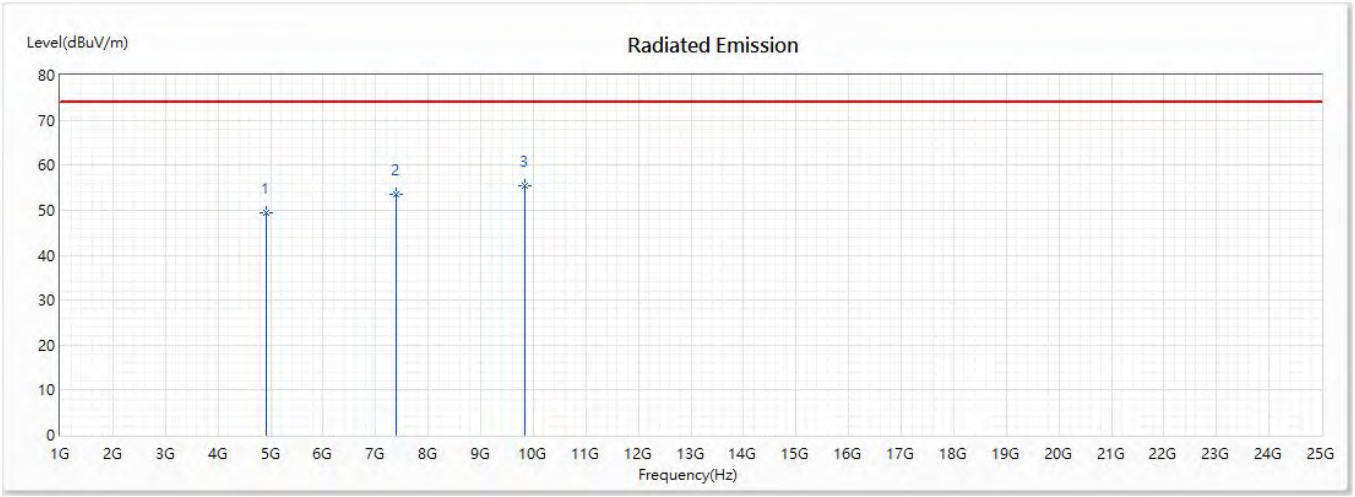
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	40.27	54.00	-13.73	27.89	12.38	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Vertical



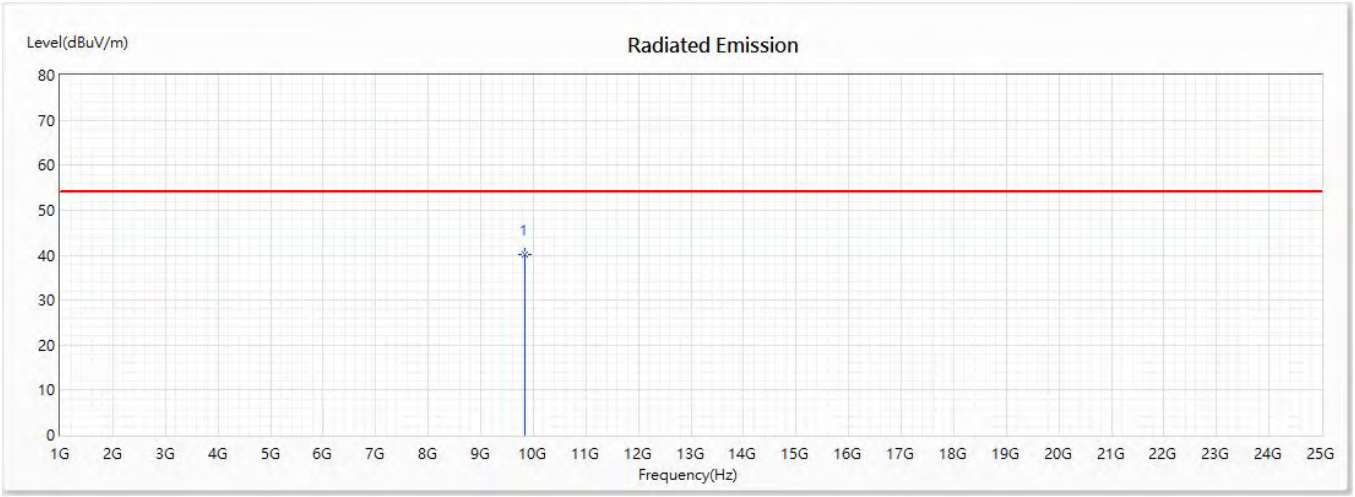
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.32	74.00	-24.68	43.62	5.70	PK
2	7386	53.47	74.00	-20.53	42.13	11.34	PK
* 3	9848	55.39	74.00	-18.61	43.01	12.38	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Vertical



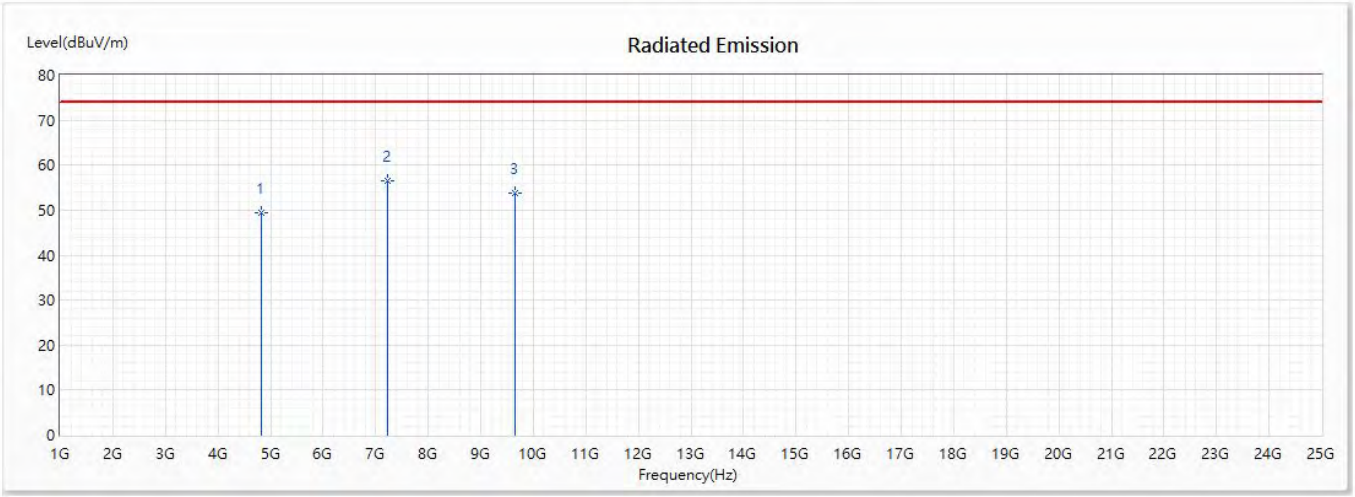
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	40.05	54.00	-13.95	27.67	12.38	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Horizontal



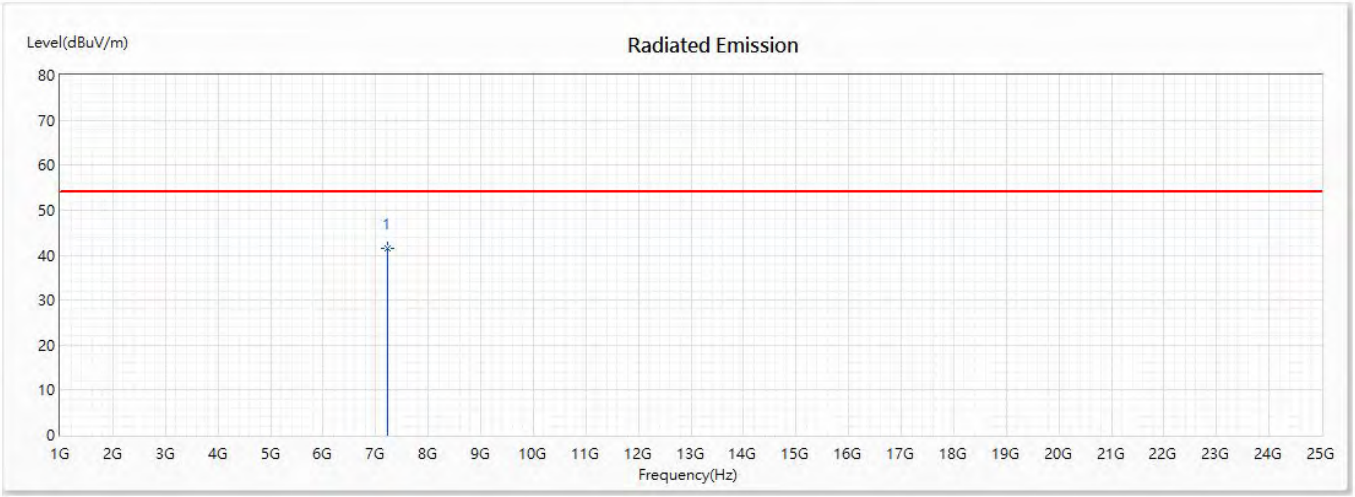
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	49.49	74.00	-24.51	44.71	4.78	PK
* 2	7236	56.45	74.00	-17.55	44.38	12.07	PK
3	9648	53.85	74.00	-20.15	41.95	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Horizontal



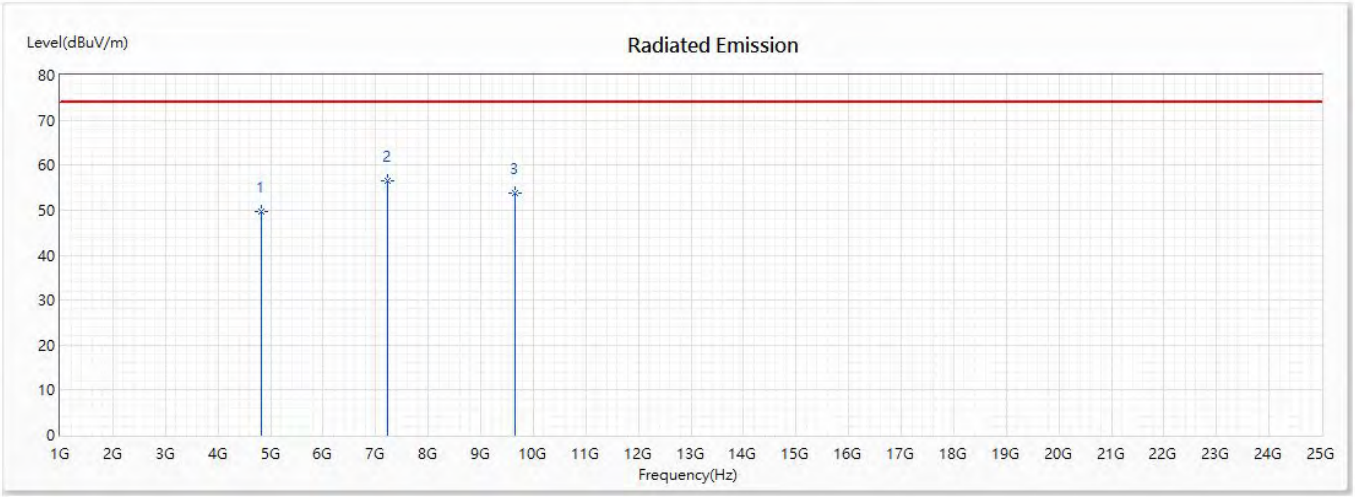
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	41.51	54.00	-12.49	29.44	12.07	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Vertical



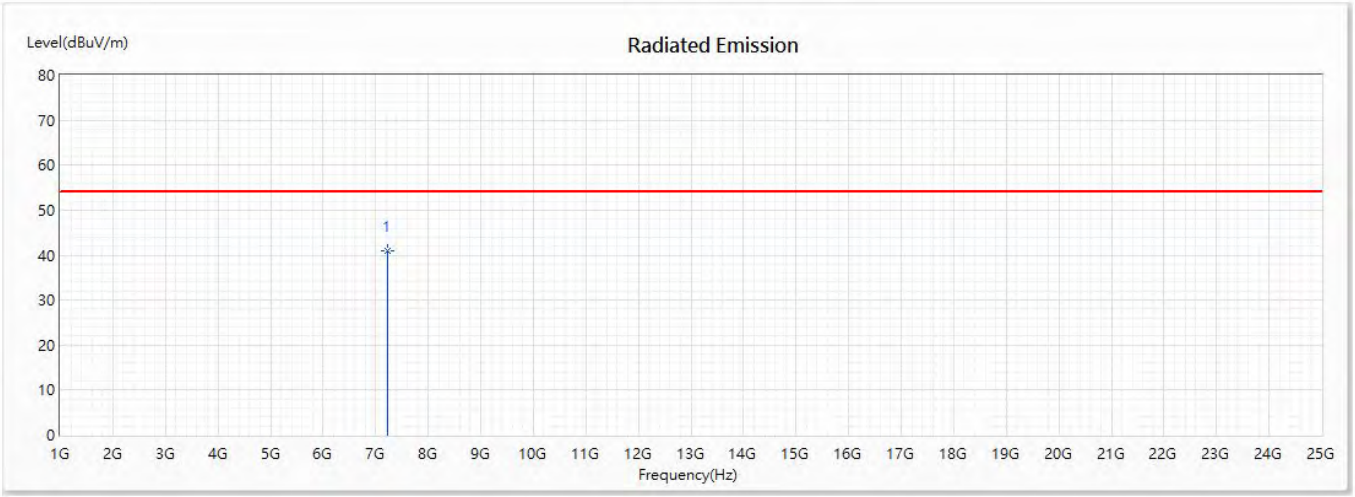
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4824	49.66	74.00	-24.34	44.88	4.78	PK
* 2	7236	56.39	74.00	-17.61	44.32	12.07	PK
3	9648	53.87	74.00	-20.13	41.97	11.90	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Vertical



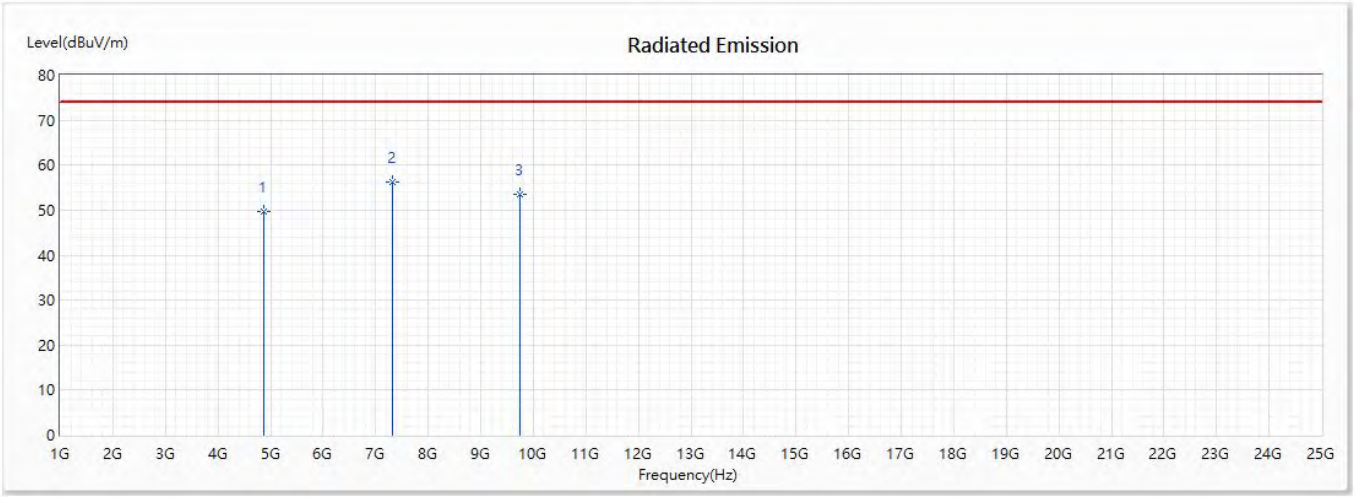
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7236	40.92	54.00	-13.08	28.85	12.07	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Horizontal



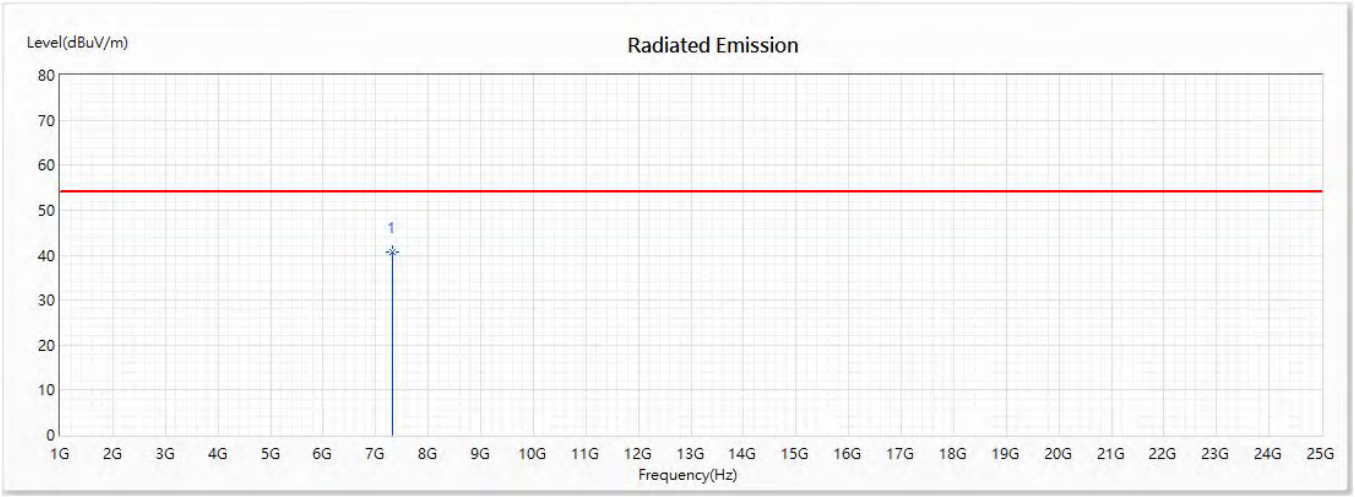
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	49.56	74.00	-24.44	44.32	5.24	PK
* 2	7311	56.22	74.00	-17.78	44.38	11.84	PK
3	9748	53.61	74.00	-20.39	41.74	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Horizontal



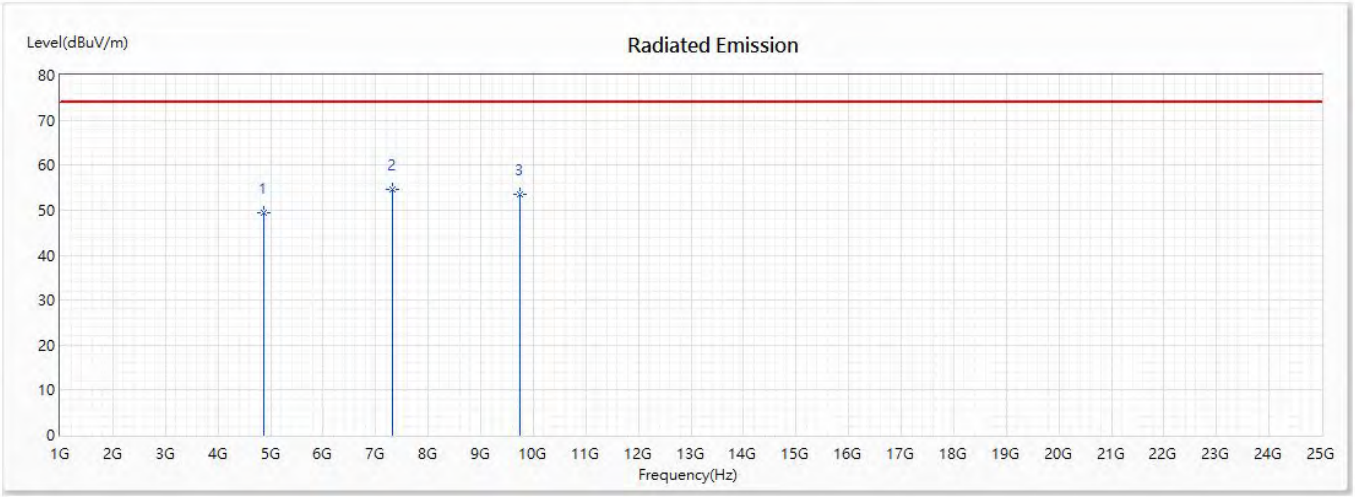
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.72	54.00	-13.28	28.88	11.84	AV

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Vertical



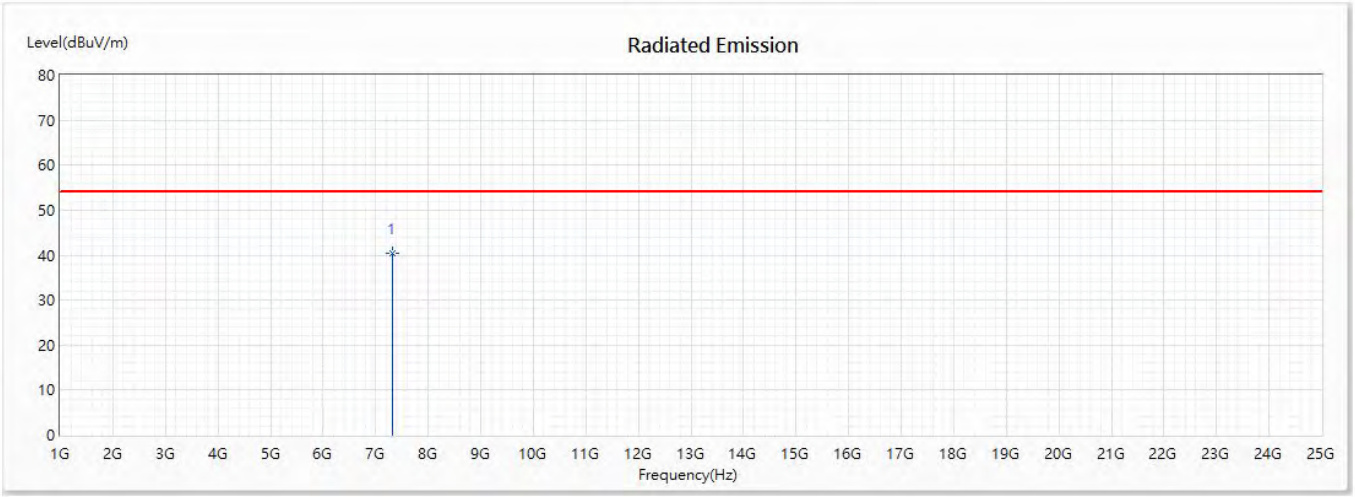
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4874	49.49	74.00	-24.51	44.25	5.24	PK
* 2	7311	54.68	74.00	-19.32	42.84	11.84	PK
3	9748	53.53	74.00	-20.47	41.66	11.87	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Vertical



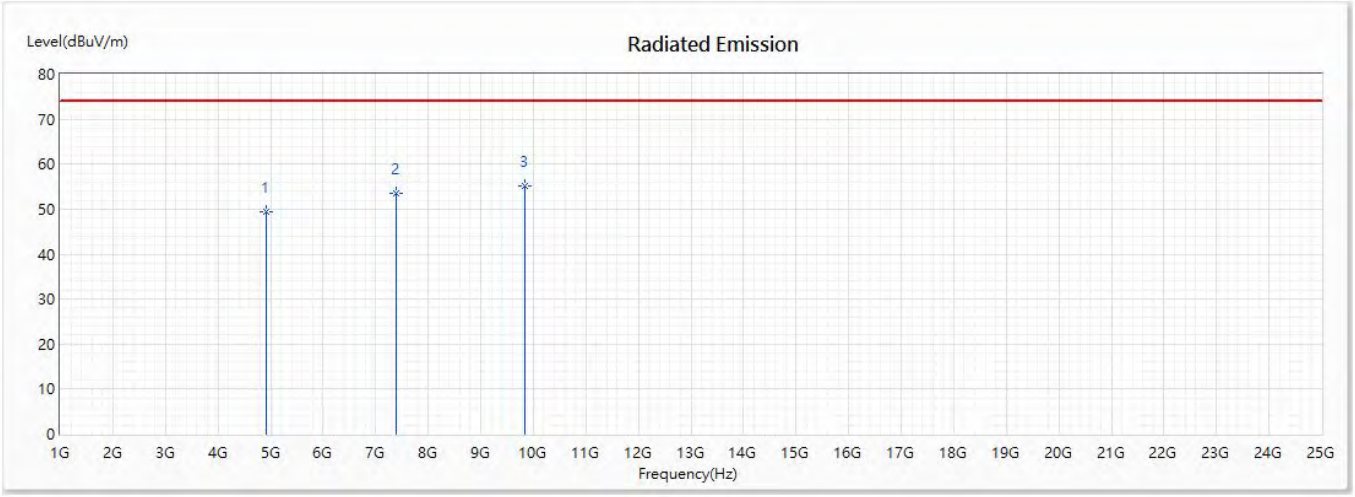
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7311	40.43	54.00	-13.57	28.59	11.84	AV

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 : DIGITAL CAMERA
Test Item : Harmonic Radiated Emission Data
Test Date : 2020/05/04
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Horizontal



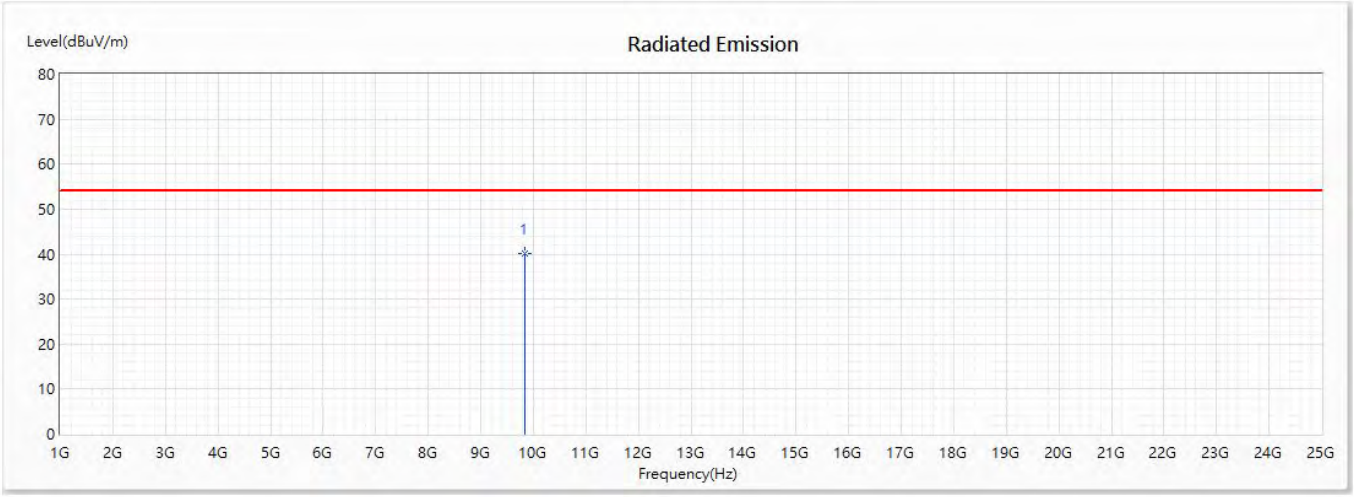
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.38	74.00	-24.62	43.68	5.70	PK
2	7386	53.51	74.00	-20.49	42.17	11.34	PK
* 3	9848	55.27	74.00	-18.73	42.89	12.38	PK

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 : DIGITAL CAMERA
Test Item : Harmonic Radiated Emission Data
Test Date : 2020/05/04
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Horizontal



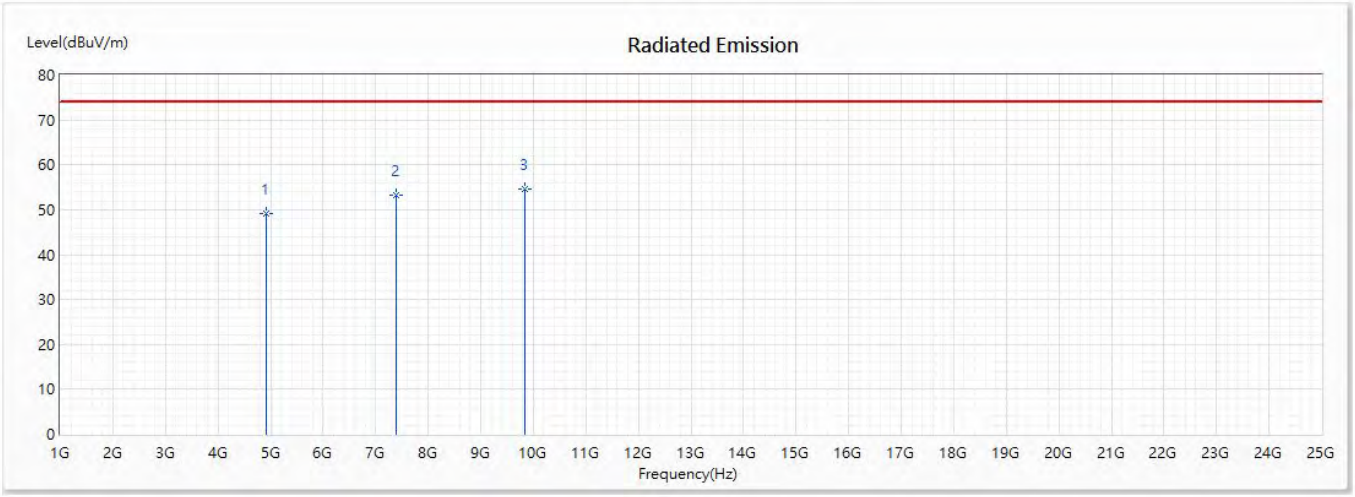
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	40.11	54.00	-13.89	27.73	12.38	AV

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 : DIGITAL CAMERA
Test Item : Harmonic Radiated Emission Data
Test Date : 2020/05/04
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Vertical



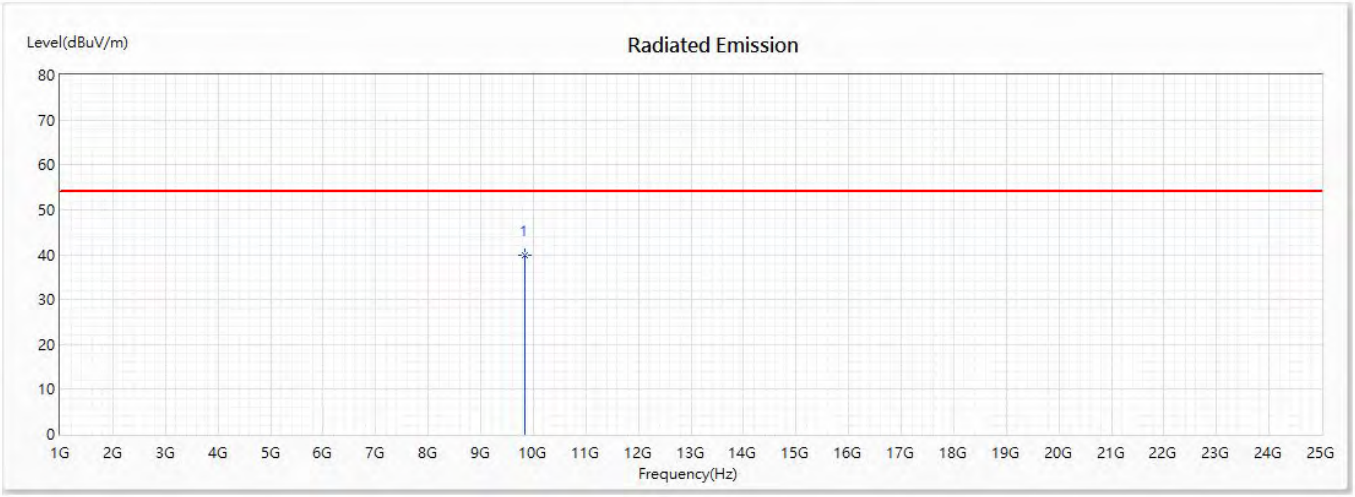
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4924	49.09	74.00	-24.91	43.39	5.70	PK
2	7386	53.21	74.00	-20.79	41.87	11.34	PK
* 3	9848	54.66	74.00	-19.34	42.28	12.38	PK

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	:	DIGITAL CAMERA
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2020/05/04
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Vertical



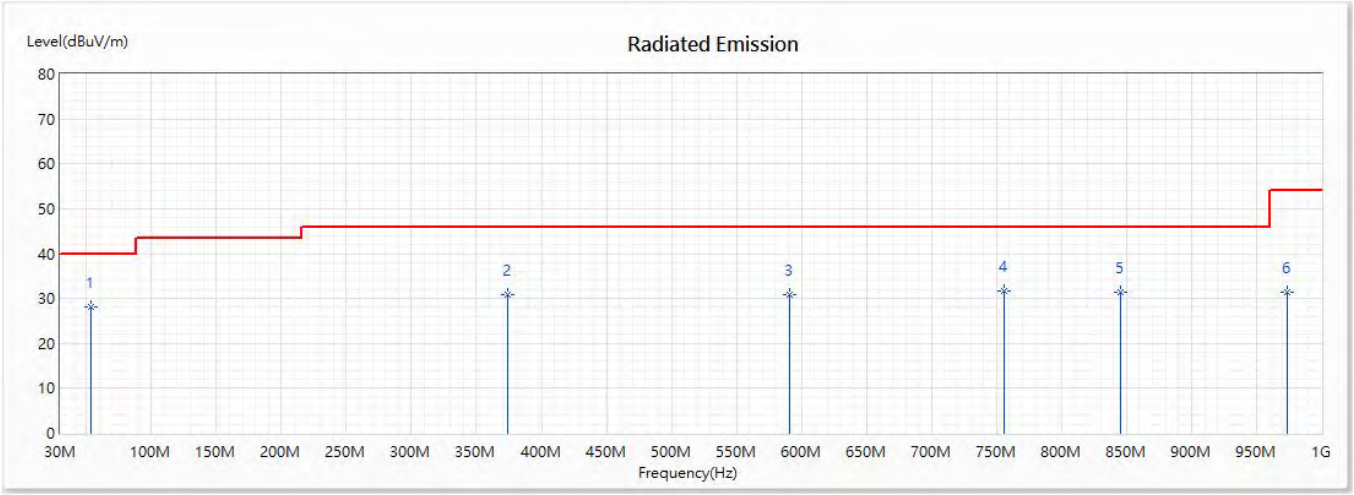
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	9848	39.88	54.00	-14.12	27.50	12.38	AV

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	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Horizontal



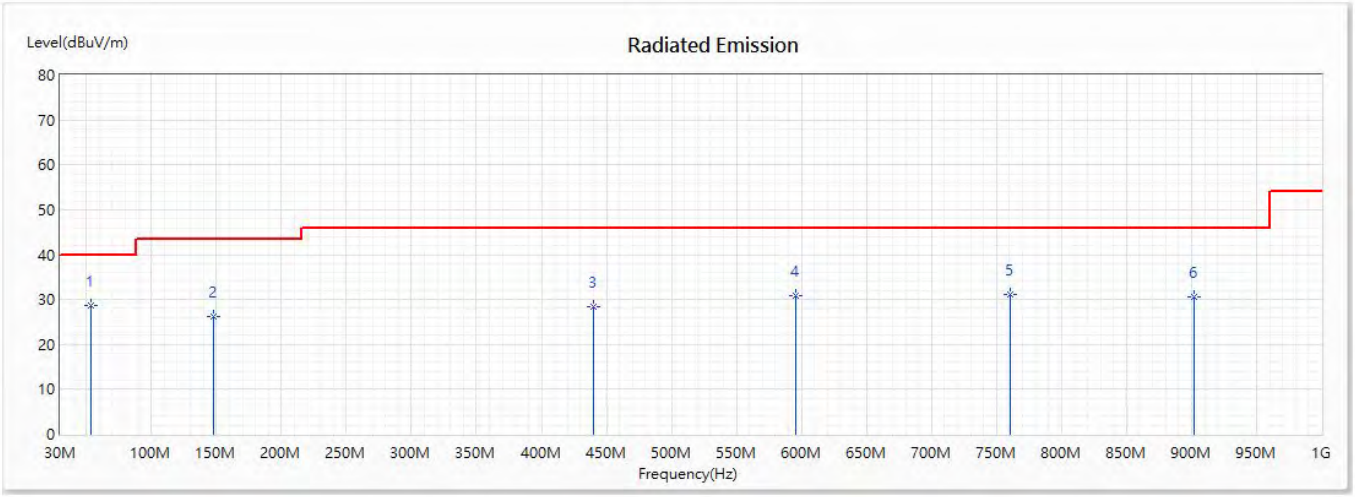
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	28.14	40.00	-11.86	39.44	-11.30	QP
2	374.42	30.90	46.00	-15.10	35.65	-4.75	QP
3	590.913	30.79	46.00	-15.21	31.15	-0.36	QP
4	755.391	31.67	46.00	-14.33	31.62	0.05	QP
5	845.362	31.30	46.00	-14.70	32.37	-1.07	QP
6	973.29	31.42	54.00	-22.58	31.61	-0.19	QP

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Vertical



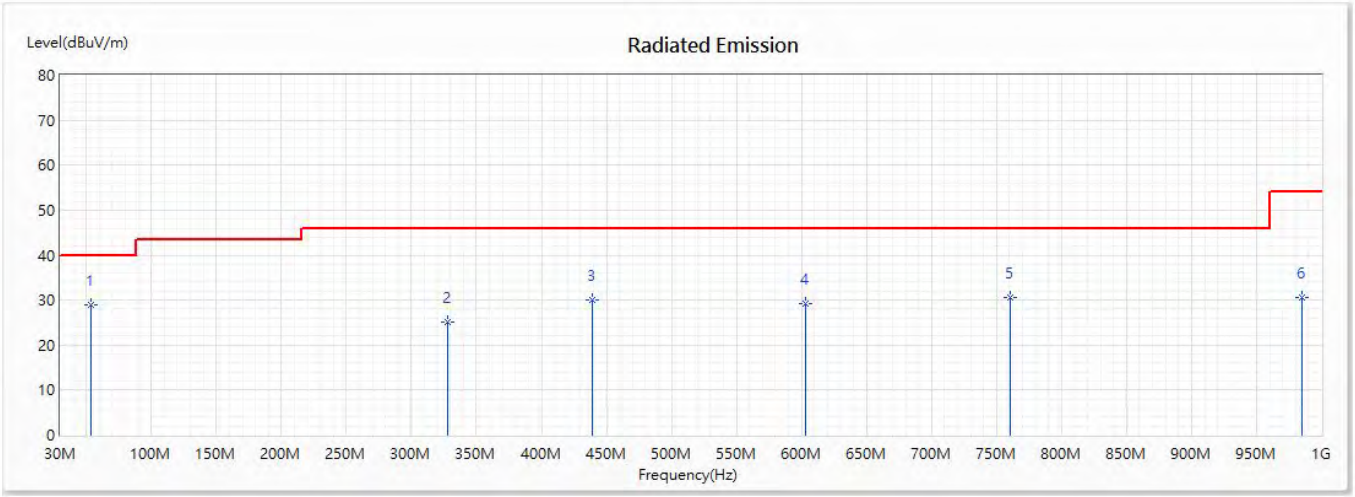
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	28.80	40.00	-11.20	40.10	-11.30	QP
2	148.087	26.08	43.50	-17.42	36.71	-10.63	QP
3	440.493	28.45	46.00	-17.55	30.25	-1.80	QP
4	595.13	30.73	46.00	-15.27	30.95	-0.22	QP
5	761.014	31.02	46.00	-14.98	30.62	0.40	QP
6	901.594	30.52	46.00	-15.48	32.31	-1.79	QP

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Horizontal



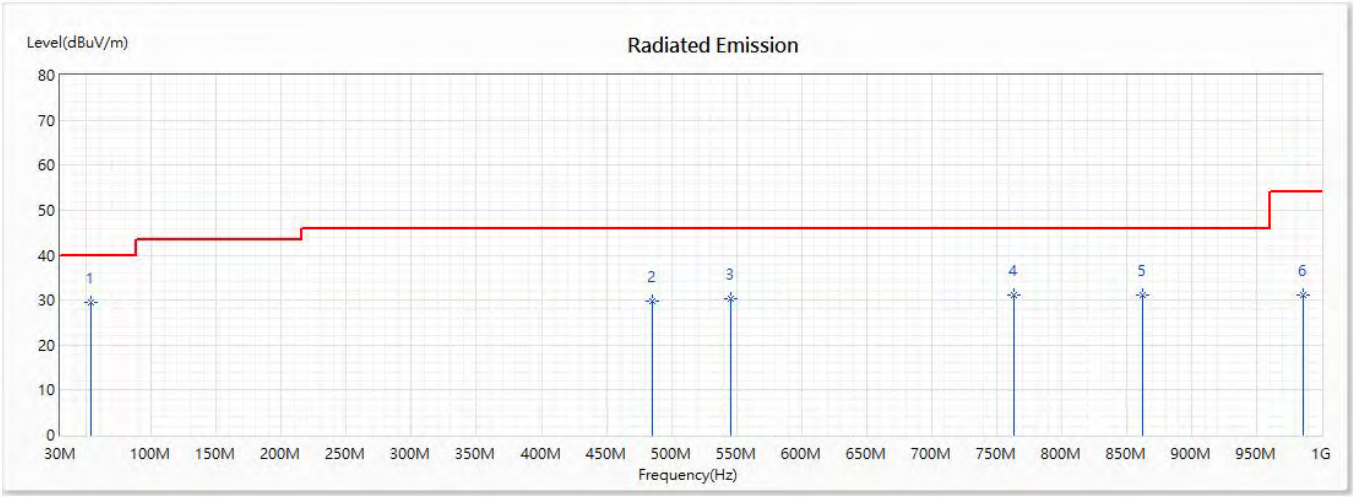
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	28.82	40.00	-11.18	40.12	-11.30	QP
2	328.029	25.22	46.00	-20.78	31.67	-6.45	QP
3	439.087	30.06	46.00	-15.94	31.92	-1.86	QP
4	603.565	29.15	46.00	-16.85	29.62	-0.47	QP
5	761.014	30.56	46.00	-15.44	30.16	0.40	QP
6	984.536	30.50	54.00	-23.50	30.79	-0.29	QP

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Vertical



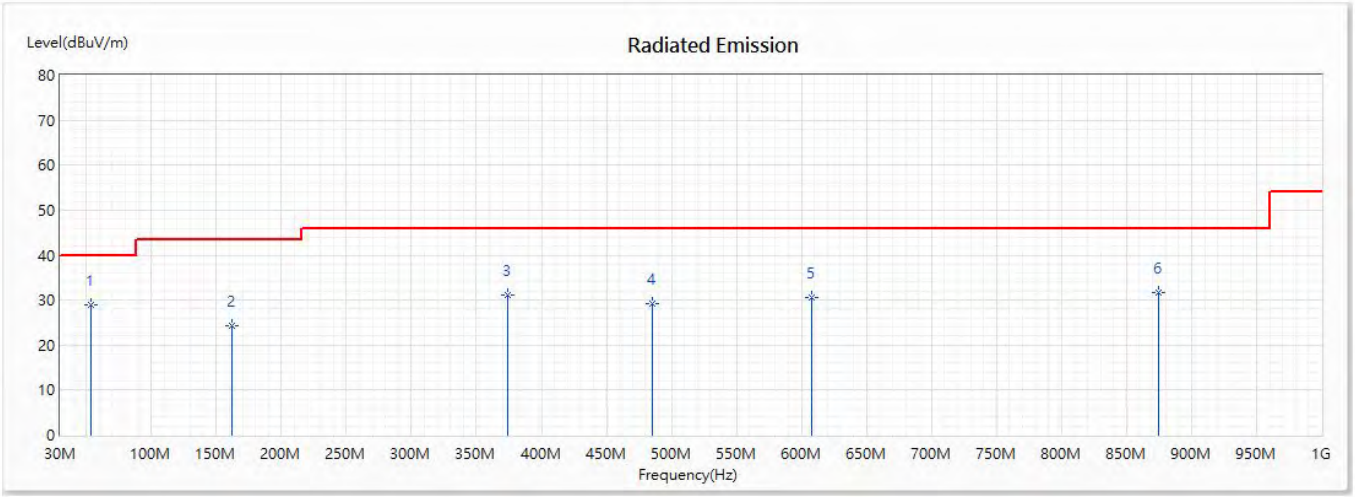
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	29.53	40.00	-10.47	40.83	-11.30	QP
2	485.478	29.86	46.00	-16.14	33.87	-4.01	QP
3	545.928	30.23	46.00	-15.77	33.26	-3.03	QP
4	763.826	31.06	46.00	-14.94	30.77	0.29	QP
5	862.232	31.04	46.00	-14.96	32.36	-1.32	QP
6	985.942	31.15	54.00	-22.85	31.51	-0.36	QP

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Horizontal



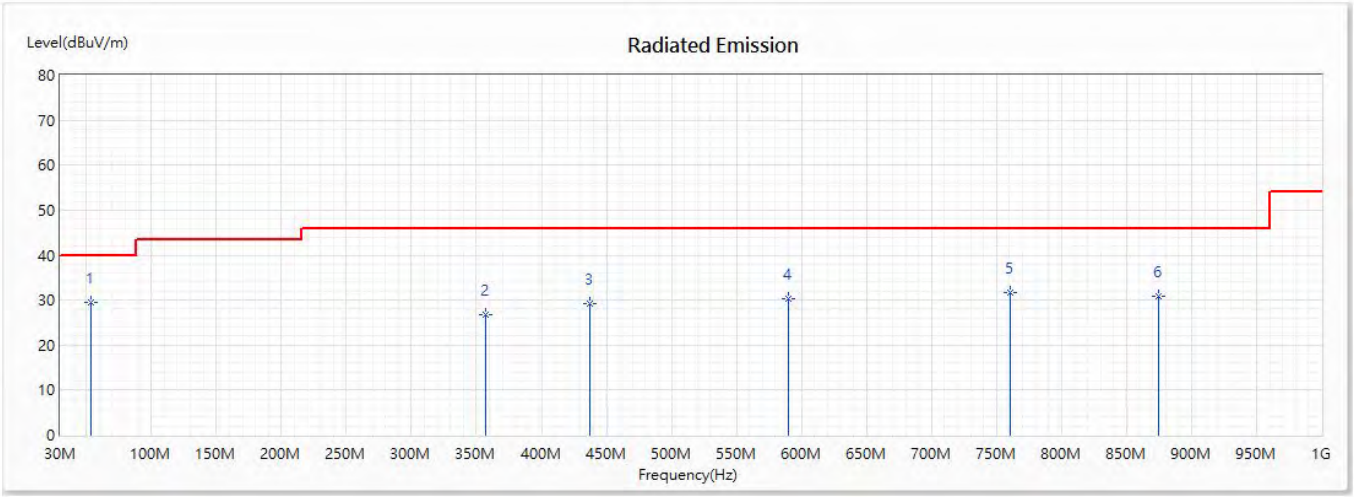
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	28.93	40.00	-11.07	40.23	-11.30	QP
2	162.145	24.24	43.50	-19.26	36.84	-12.60	QP
3	374.42	31.14	46.00	-14.86	35.89	-4.75	QP
4	485.478	29.29	46.00	-16.71	33.30	-4.01	QP
5	607.783	30.70	46.00	-15.30	31.44	-0.74	QP
6	874.884	31.61	46.00	-14.39	32.26	-0.65	QP

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	DIGITAL CAMERA
Test Item	:	General Radiated Emission Data
Test Date	:	2020/05/05
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	53.899	29.36	40.00	-10.64	40.66	-11.30	QP
2	357.551	26.79	46.00	-19.21	31.11	-4.32	QP
3	437.681	29.13	46.00	-16.87	31.12	-1.99	QP
4	589.507	30.39	46.00	-15.61	30.80	-0.41	QP
5	761.014	31.63	46.00	-14.37	31.23	0.40	QP
6	874.884	30.84	46.00	-15.16	31.49	-0.65	QP

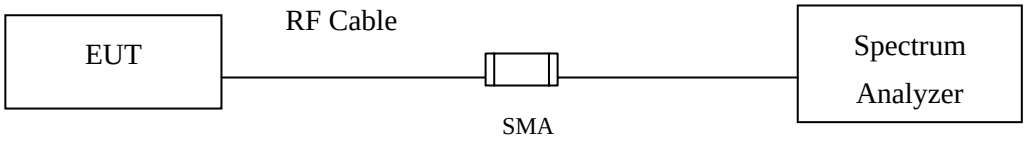
Note:

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 emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

5. RF antenna conducted test

5.1. Test Setup

RF antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

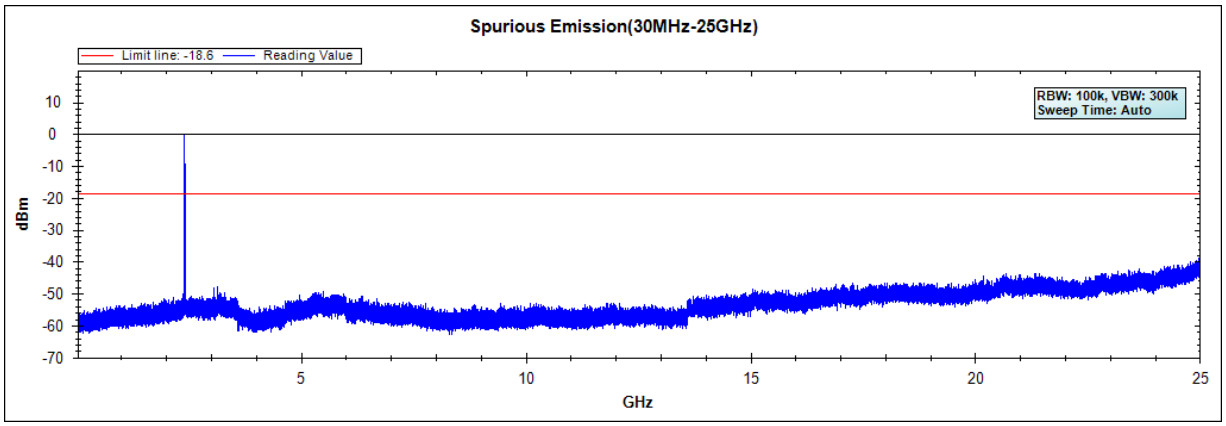
5.4. Uncertainty

The measurement uncertainty
Conducted is defined as ± 1.20dB

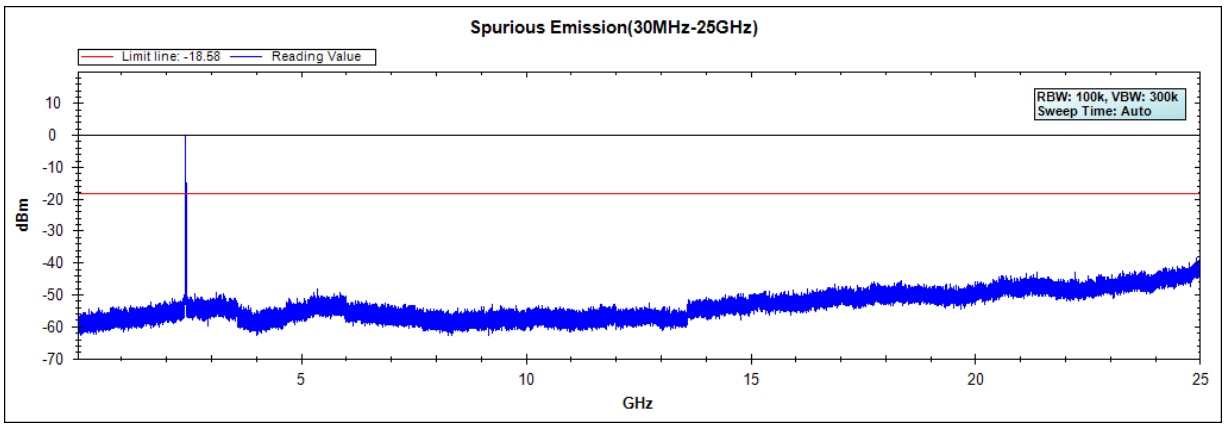
5.5. Test Result of RF antenna conducted test

Product : DIGITAL CAMERA
Test Item : RF antenna conducted test
Test Date : 2020/05/05
Test Mode : Mode 1: Transmit (802.11b 1Mbps)

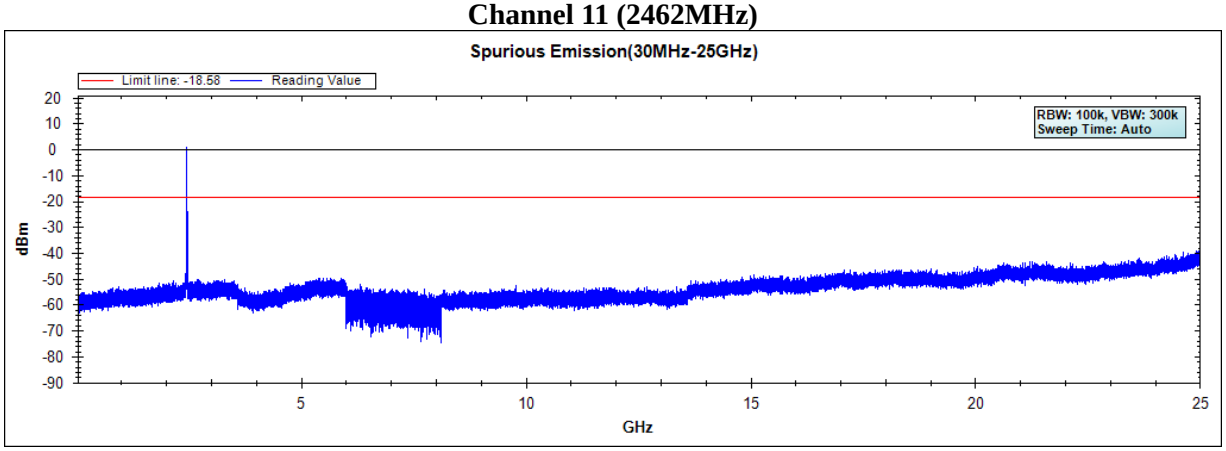
Channel 01 (2412MHz)



Channel 06 (2437MHz)



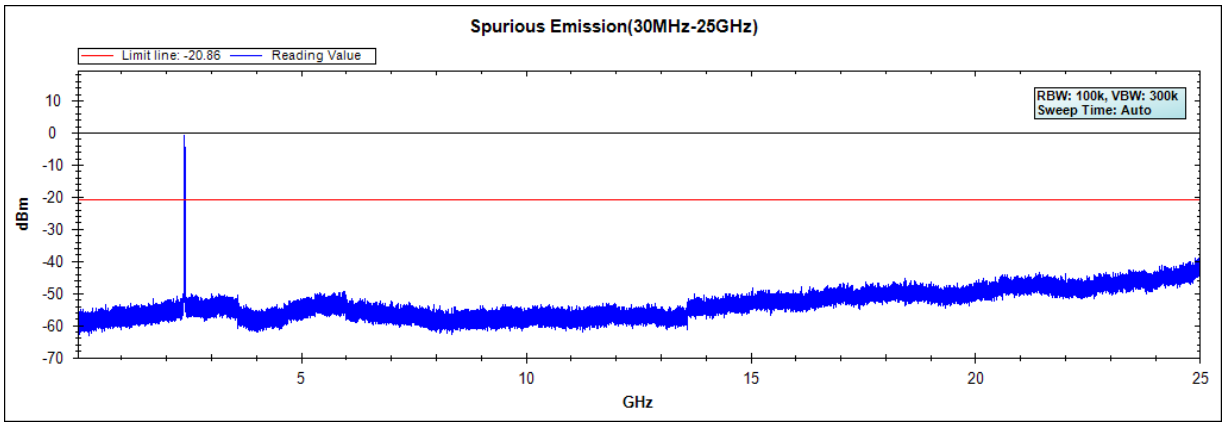
Channel 11 (2462MHz)



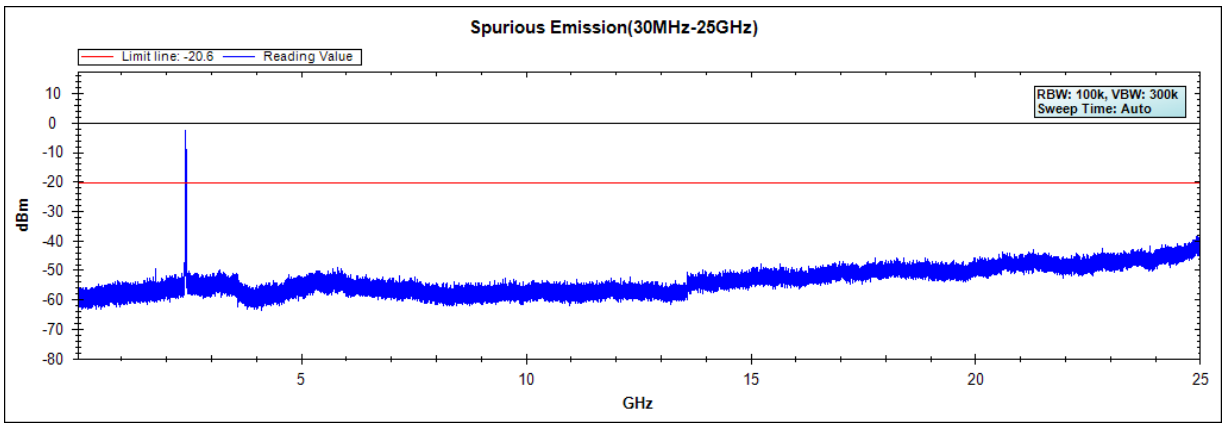
Note: The above test pattern is synthesized by multiple of the frequency range.

Product	:	DIGITAL CAMERA
Test Item	:	RF Antenna Conducted Spurious
Test Date	:	2020/05/05
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

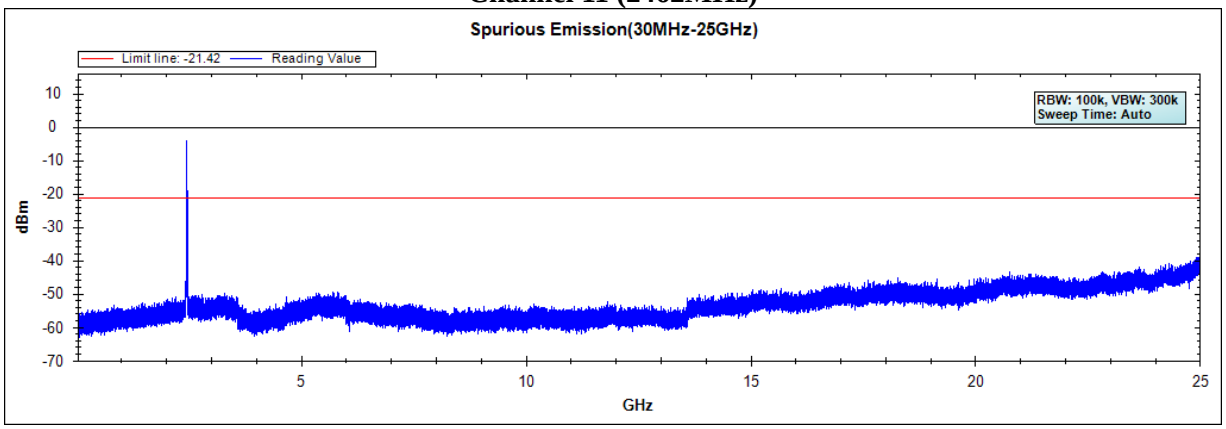
Channel 01 (2412MHz)



Channel 06 (2437MHz)



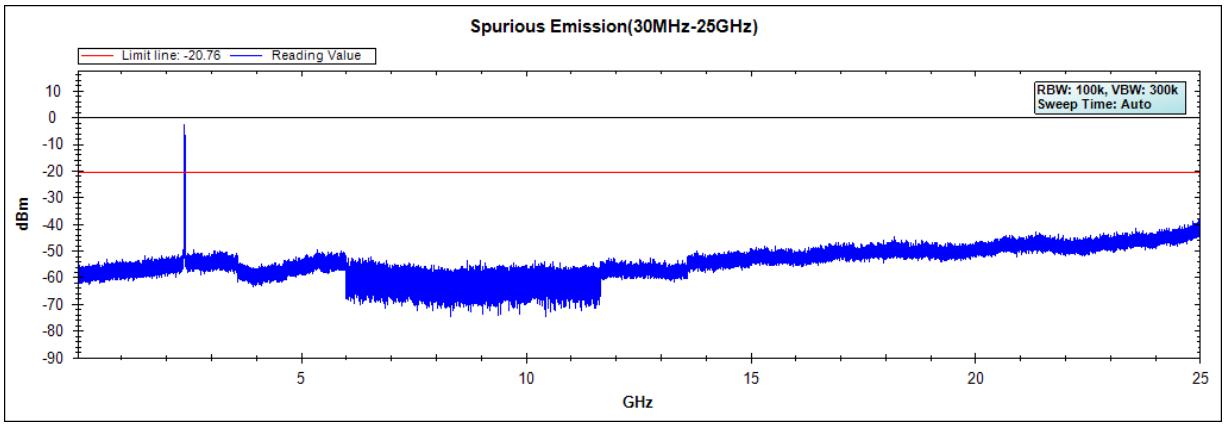
Channel 11 (2462MHz)



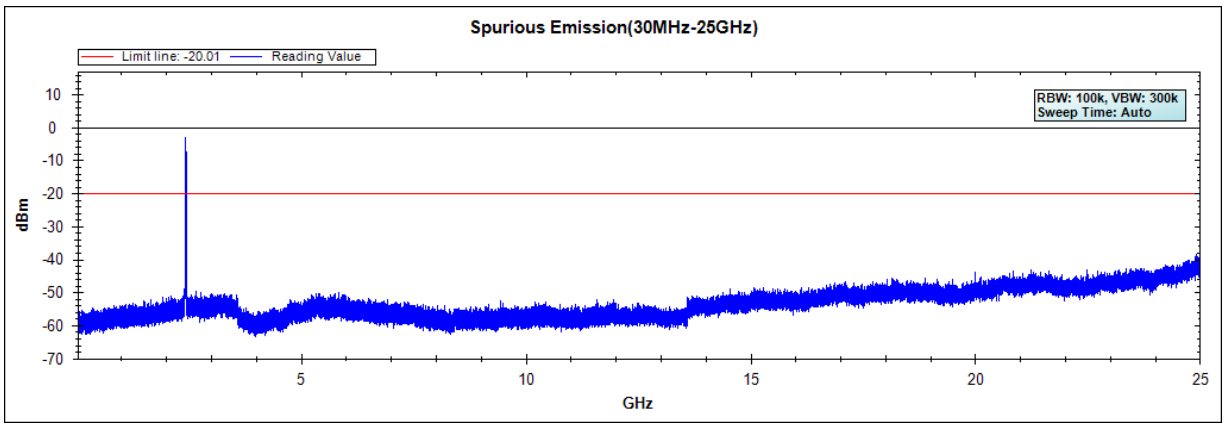
Note: The above test pattern is synthesized by multiple of the frequency range.

Product	:	DIGITAL CAMERA
Test Item	:	RF Antenna Conducted Spurious
Test Date	:	2020/05/05
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

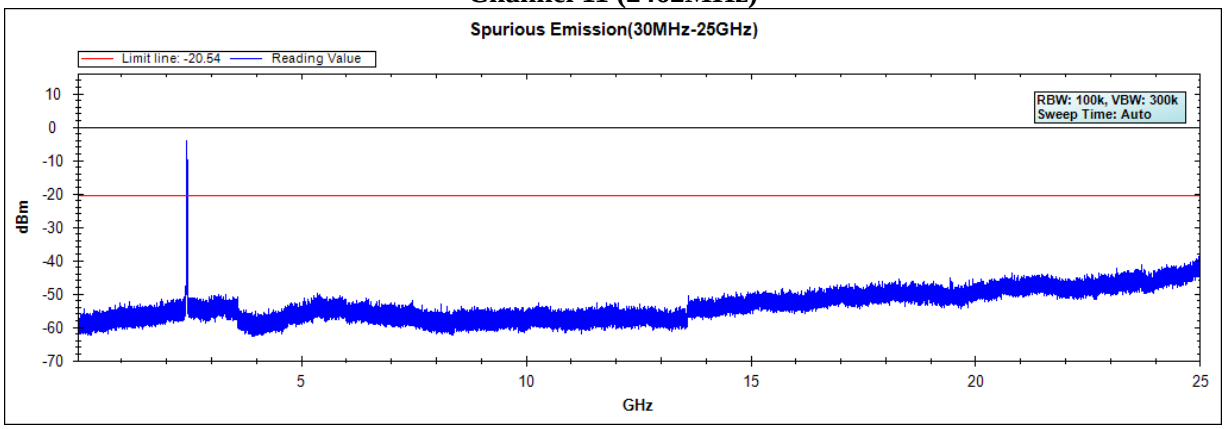
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

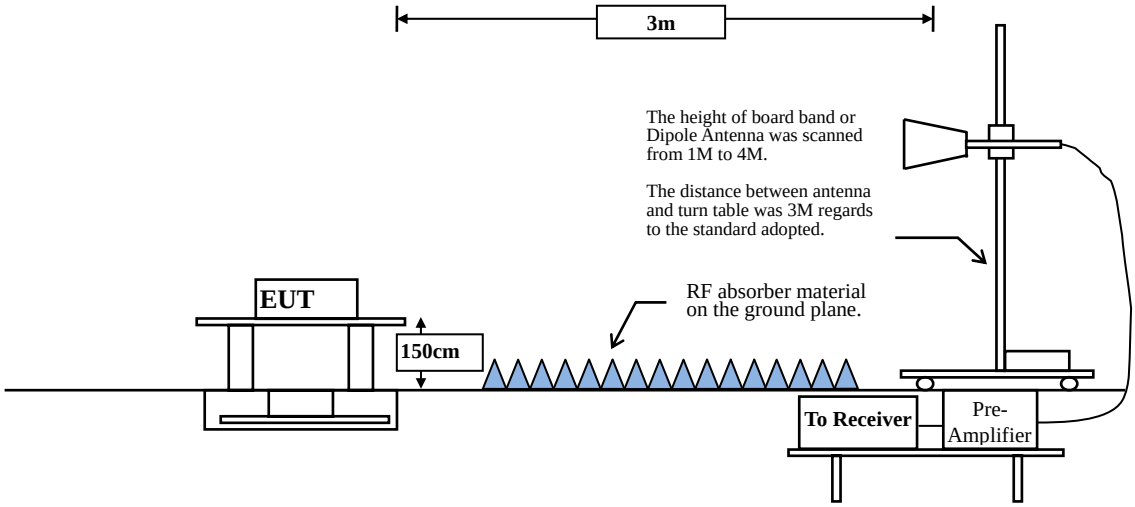


Note: The above test pattern is synthesized by multiple of the frequency range.

6. Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.3. 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.
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 from 1 meter to 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.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

VBW ≥ 3 x 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 = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 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)
802.11b	100.00	1.0000	1000	10
802.11g	97.25	2.0507	488	500
802.11n20	95.65	1.9130	523	1000

Note: Duty Cycle Refer to Section 9.

6.4. Uncertainty

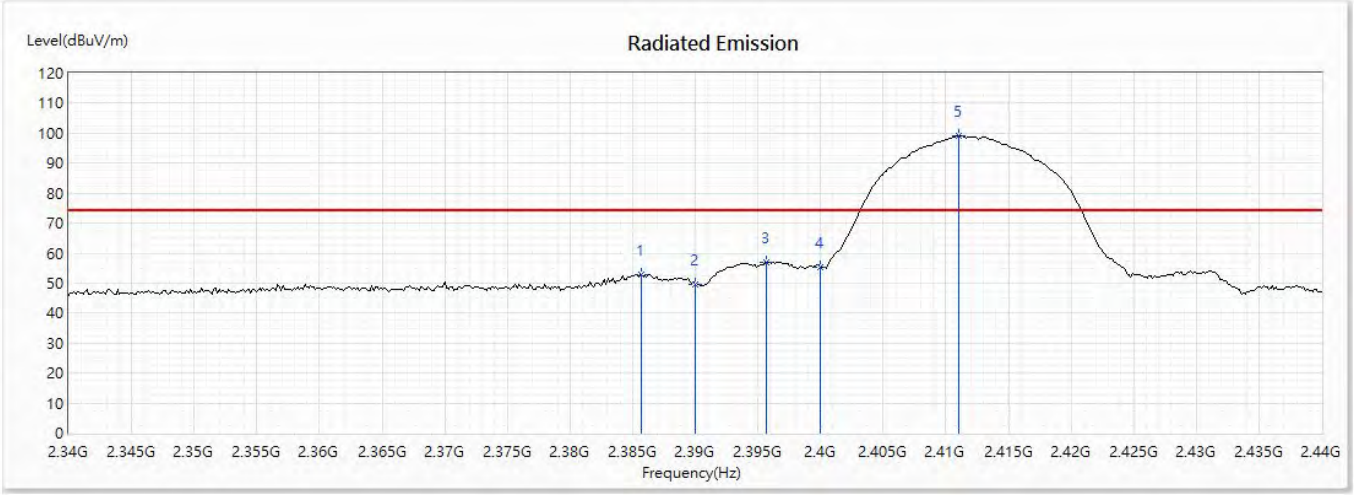
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

6.5. Test Result of Band Edge

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Horizontal



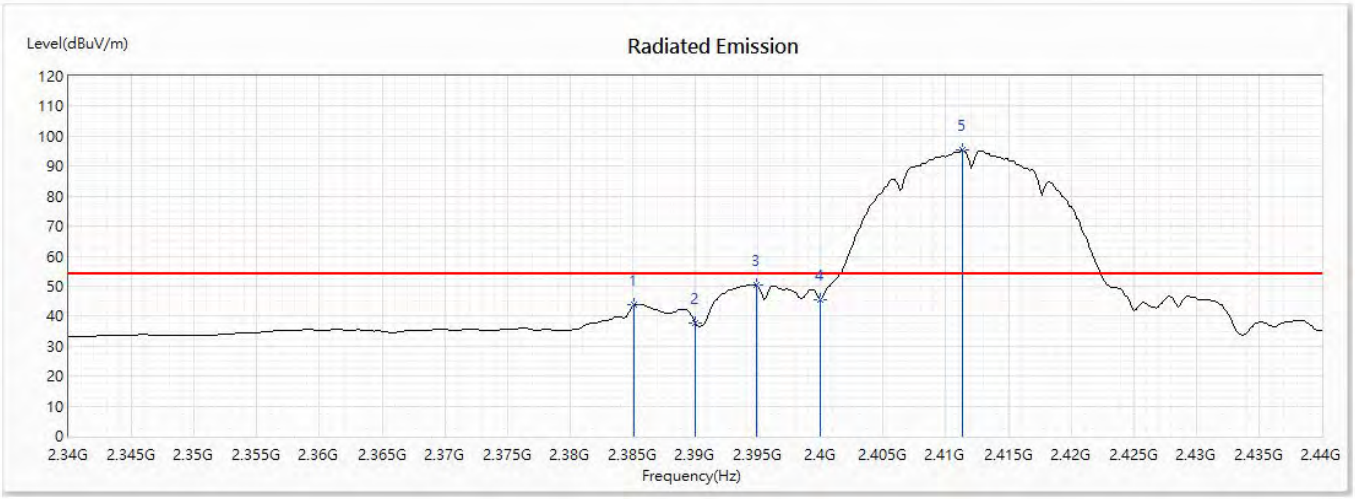
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2385.652	52.95	74.00	-21.05	54.47	-1.52	PK
2	2390	49.47	74.00	-24.53	51.02	-1.55	PK
3	2395.652	56.99	--	--	58.57	-1.58	PK
4	2400	55.41	--	--	57.02	-1.61	PK
! 5	2411.014	99.06	--	--	100.74	-1.68	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Horizontal



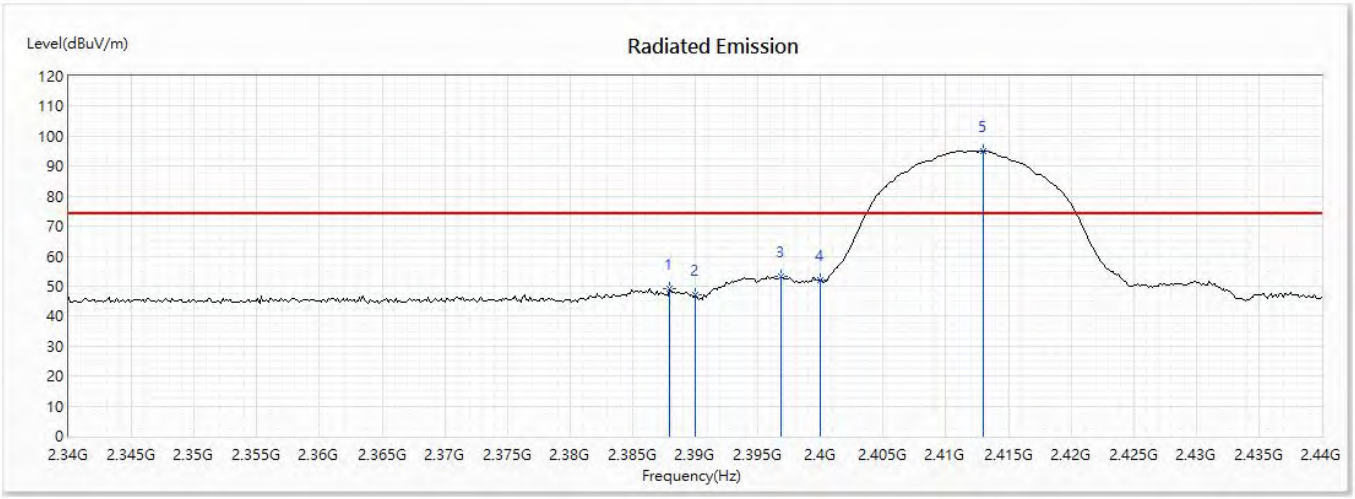
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2385.072	43.66	54.00	-10.34	45.17	-1.51	AV
2	2390	37.70	54.00	-16.30	39.25	-1.55	AV
3	2394.928	50.37	--	--	51.95	-1.58	AV
4	2400	45.43	--	--	47.04	-1.61	AV
! 5	2411.304	95.33	--	--	97.01	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Vertical



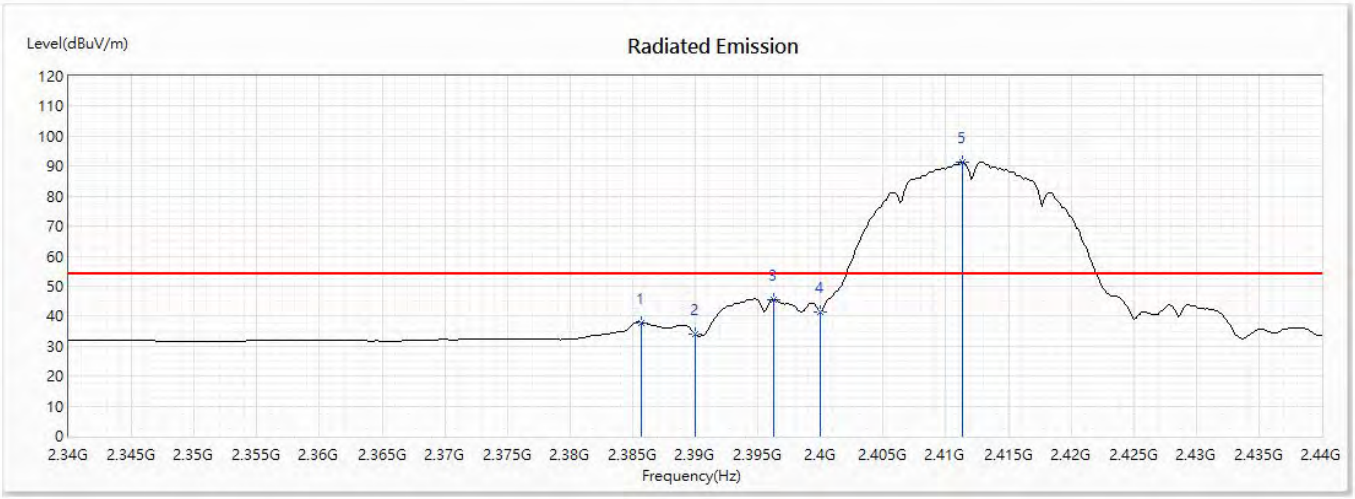
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2387.971	49.34	74.00	-24.66	50.88	-1.54	PK
2	2390	47.07	74.00	-26.93	48.62	-1.55	PK
3	2396.812	53.13	--	--	54.72	-1.59	PK
4	2400	51.84	--	--	53.45	-1.61	PK
! 5	2413.043	95.19	--	--	96.88	-1.69	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	DIGITAL CAMERA
Test Item	:	Band Edge Data
Test Date	:	2020/03/19
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Vertical



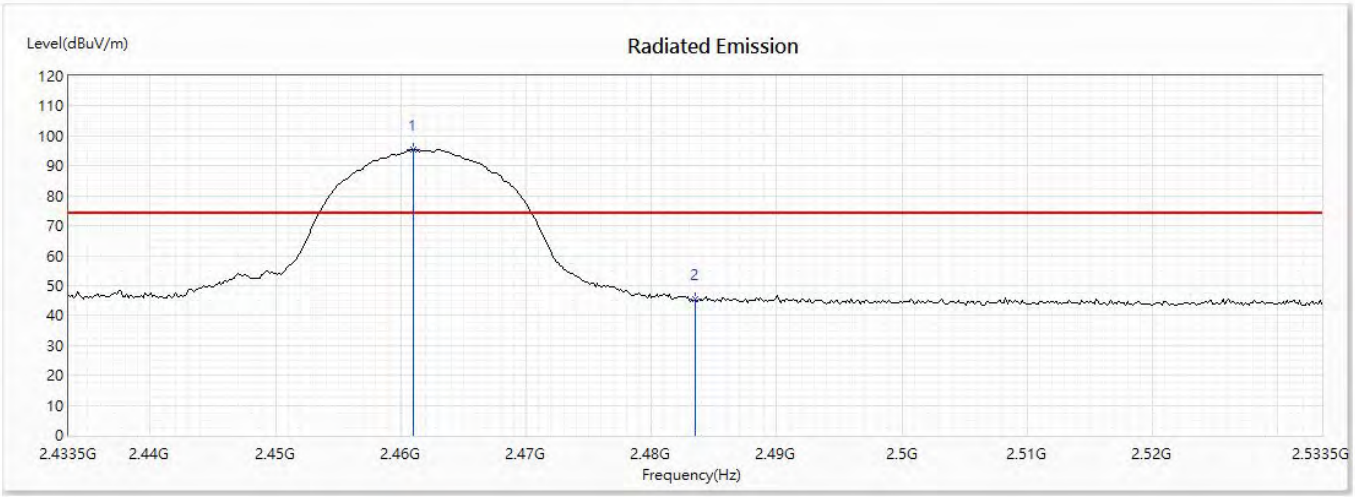
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2385.652	37.88	54.00	-16.12	39.40	-1.52	AV
2	2390	33.93	54.00	-20.07	35.48	-1.55	AV
3	2396.232	45.59	--	--	47.17	-1.58	AV
4	2400	41.30	--	--	42.91	-1.61	AV
! 5	2411.304	91.41	--	--	93.09	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Horizontal



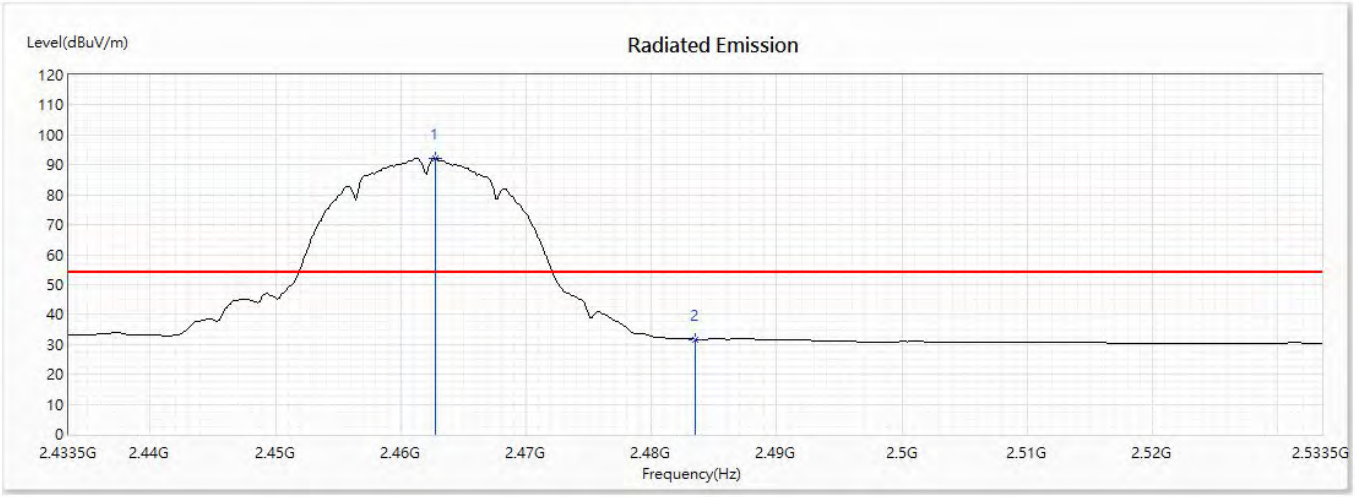
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2461.036	95.33	--	--	97.32	-1.99	PK
2	2483.5	45.49	74.00	-28.51	47.61	-2.12	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	DIGITAL CAMERA
Test Item	:	Band Edge Data
Test Date	:	2020/03/19
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Horizontal



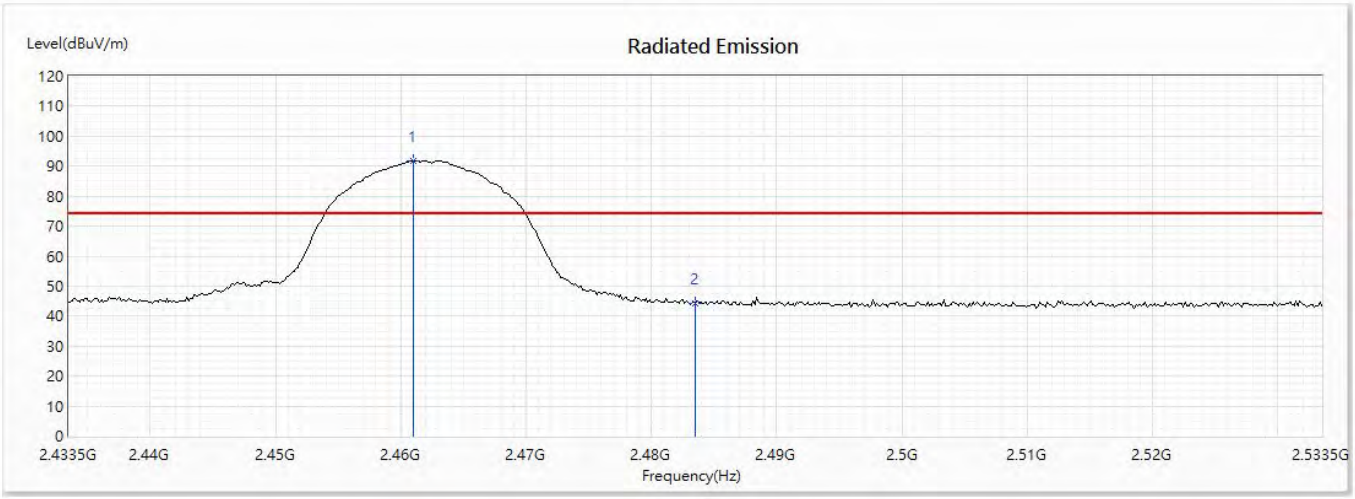
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2462.775	92.22	--	--	94.21	-1.99	AV
2	2483.5	31.72	54.00	-22.28	33.84	-2.12	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	DIGITAL CAMERA
Test Item	:	Band Edge Data
Test Date	:	2020/03/19
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Vertical



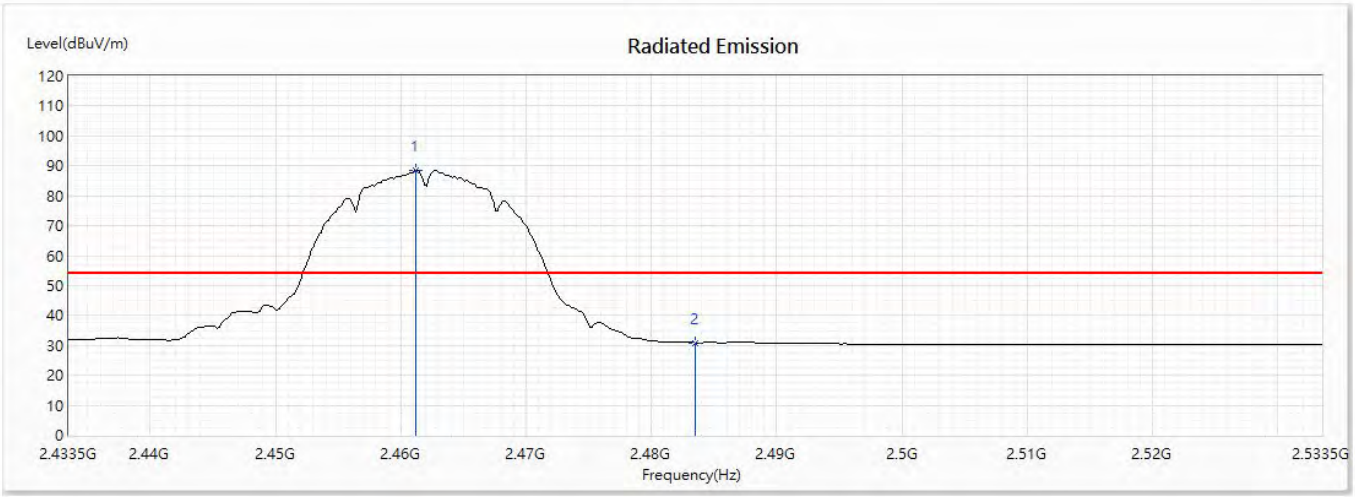
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2461.036	91.83	--	--	93.82	-1.99	PK
2	2483.5	44.09	74.00	-29.91	46.21	-2.12	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Vertical



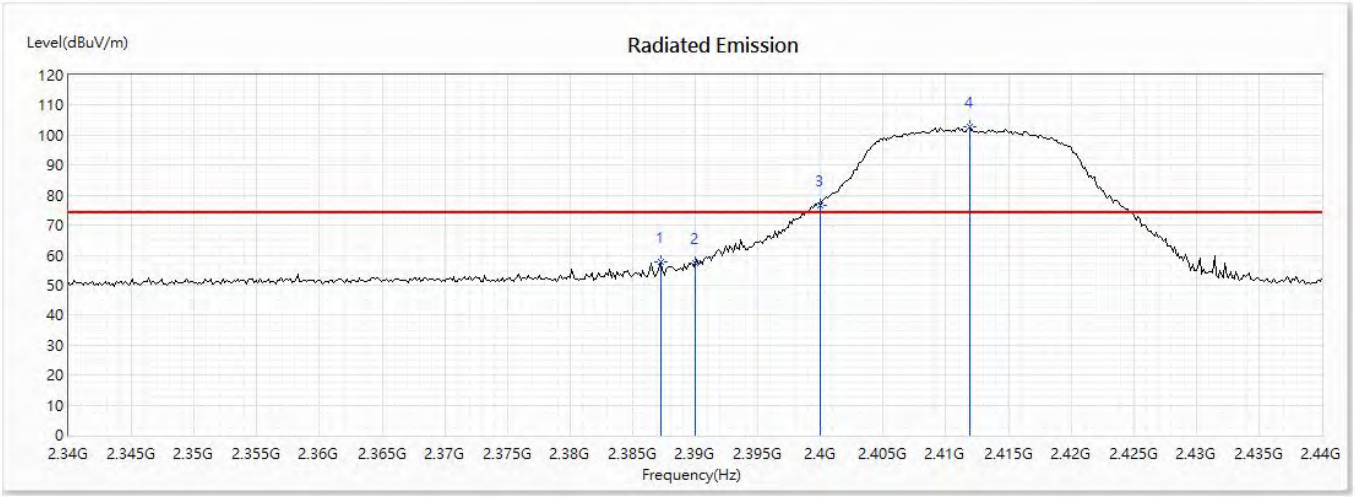
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2461.181	88.46	--	--	90.45	-1.99	AV
2	2483.5	30.92	54.00	-23.08	33.04	-2.12	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Horizontal



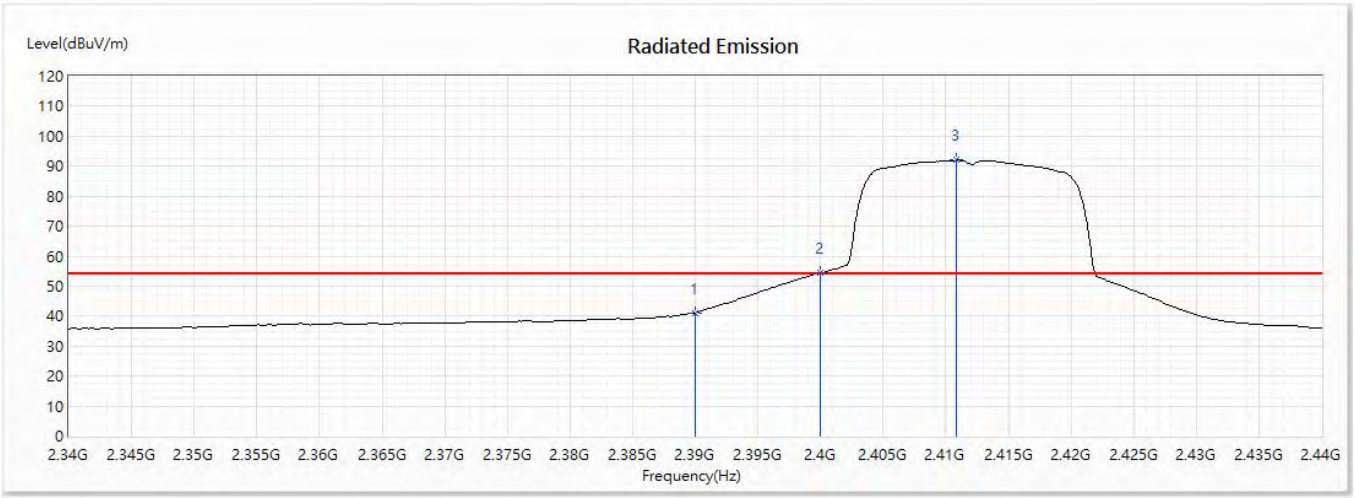
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2387.246	57.87	74.00	-16.13	59.40	-1.53	PK
2	2390	57.44	74.00	-16.56	58.99	-1.55	PK
! 3	2400	76.77	--	--	78.38	-1.61	PK
! 4	2411.884	102.65	--	--	104.33	-1.68	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Horizontal



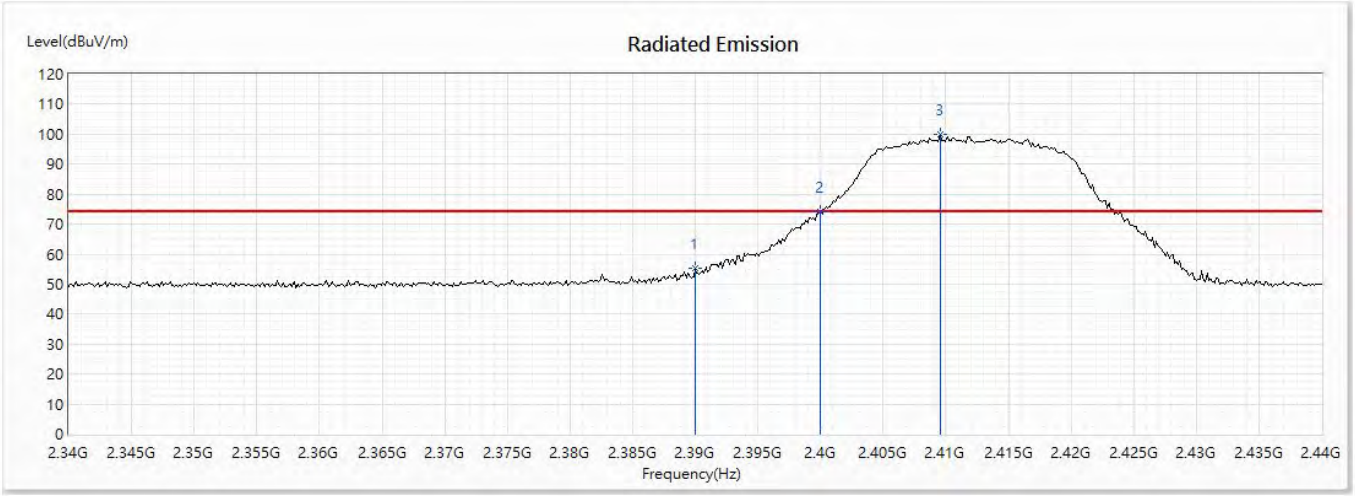
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	41.09	54.00	-12.91	42.64	-1.55	AV
! 2	2400	54.30	--	--	55.91	-1.61	AV
! 3	2410.87	92.01	--	--	93.69	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	DIGITAL CAMERA
Test Item	:	Band Edge Data
Test Date	:	2020/03/19
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Vertical



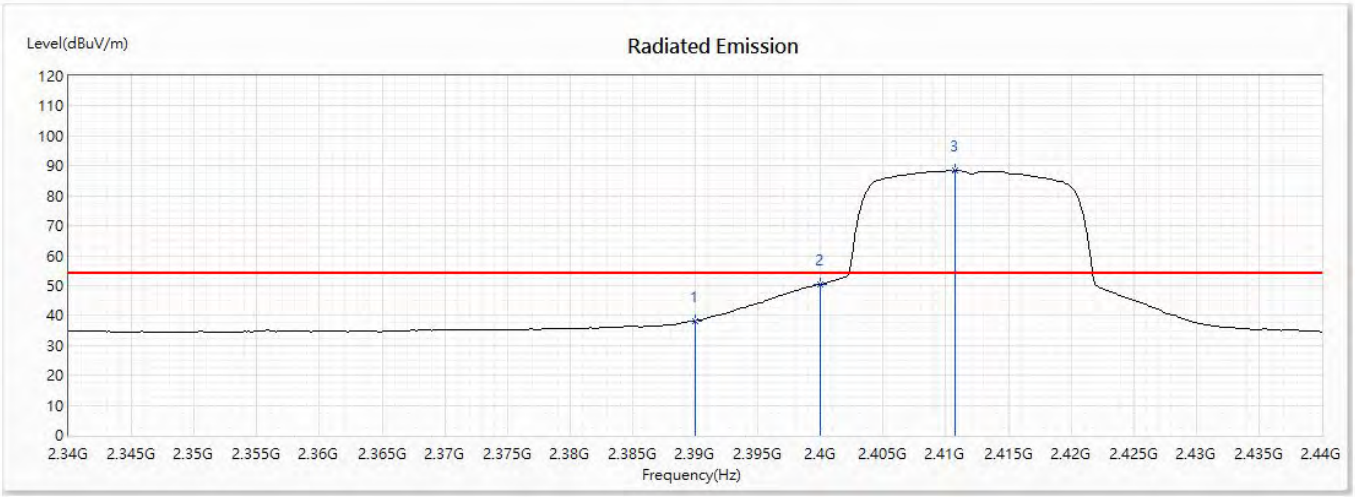
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	55.27	74.00	-18.73	56.82	-1.55	PK
! 2	2400	74.33	--	--	75.94	-1.61	PK
! 3	2409.565	99.75	--	--	101.42	-1.67	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Vertical



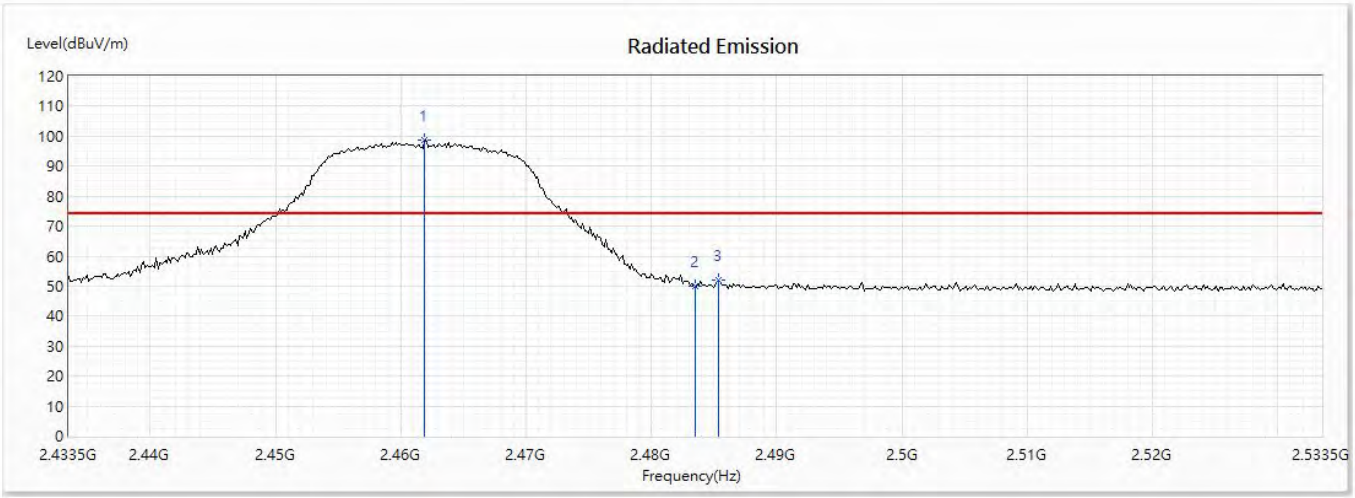
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	38.19	54.00	-15.81	39.74	-1.55	AV
2	2400	50.44	--	--	52.05	-1.61	AV
! 3	2410.725	88.35	--	--	90.03	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Horizontal



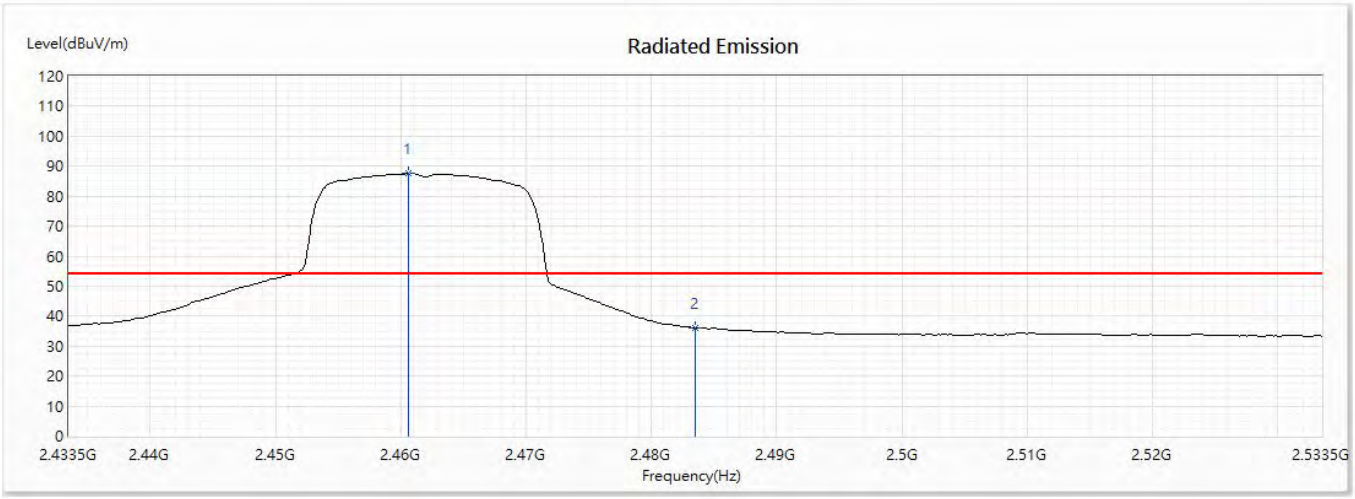
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2461.906	98.89	--	--	100.87	-1.98	PK
2	2483.5	50.13	74.00	-23.87	52.25	-2.12	PK
3	2485.384	51.86	74.00	-22.14	53.99	-2.13	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Horizontal



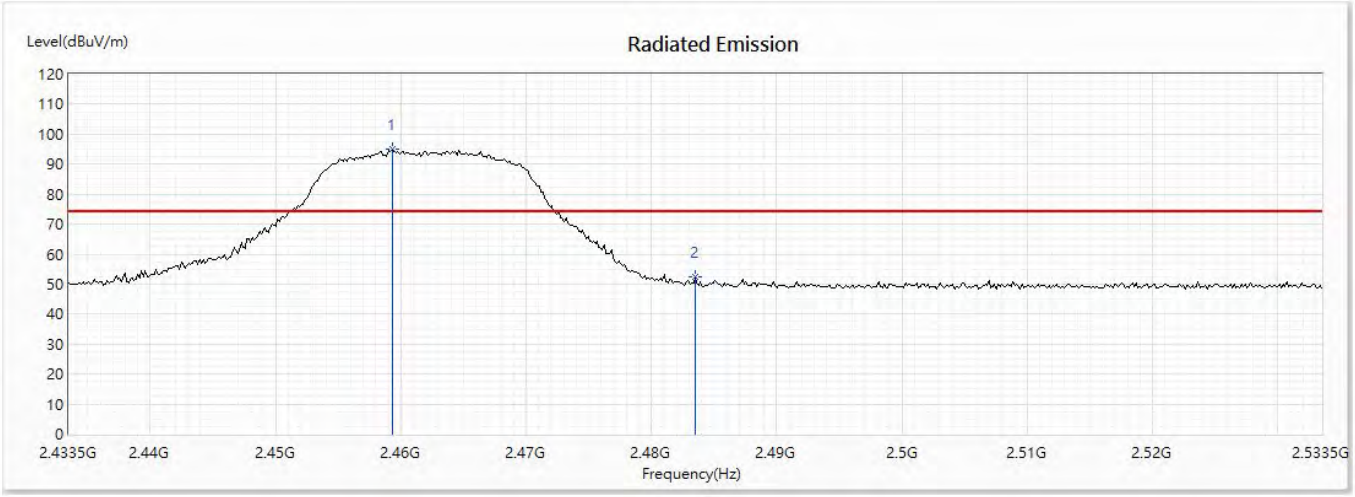
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2460.601	87.51	--	--	89.49	-1.98	AV
2	2483.5	36.00	54.00	-18.00	38.12	-2.12	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Vertical



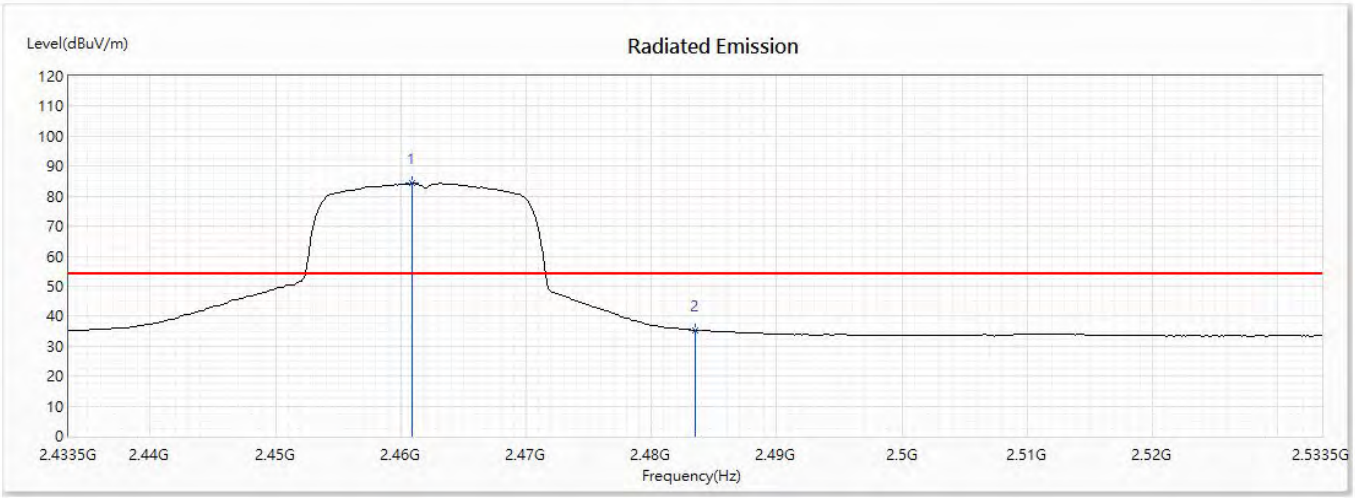
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2459.297	95.08	--	--	97.05	-1.97	PK
2	2483.5	52.52	74.00	-21.48	54.64	-2.12	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Vertical



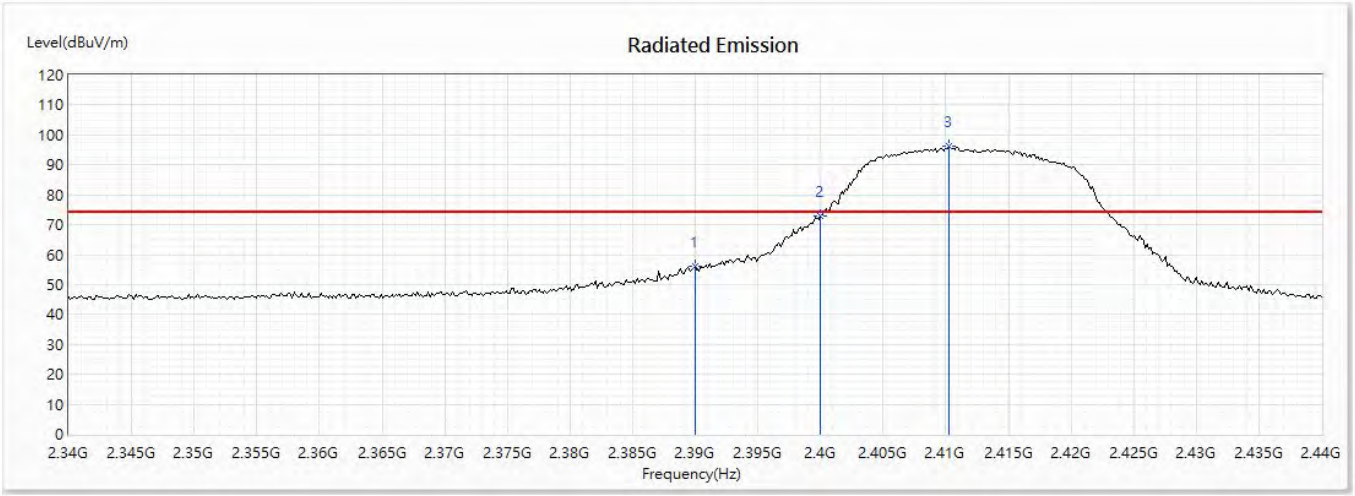
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2460.891	84.18	--	--	86.17	-1.99	AV
2	2483.5	35.25	54.00	-18.75	37.37	-2.12	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Horizontal



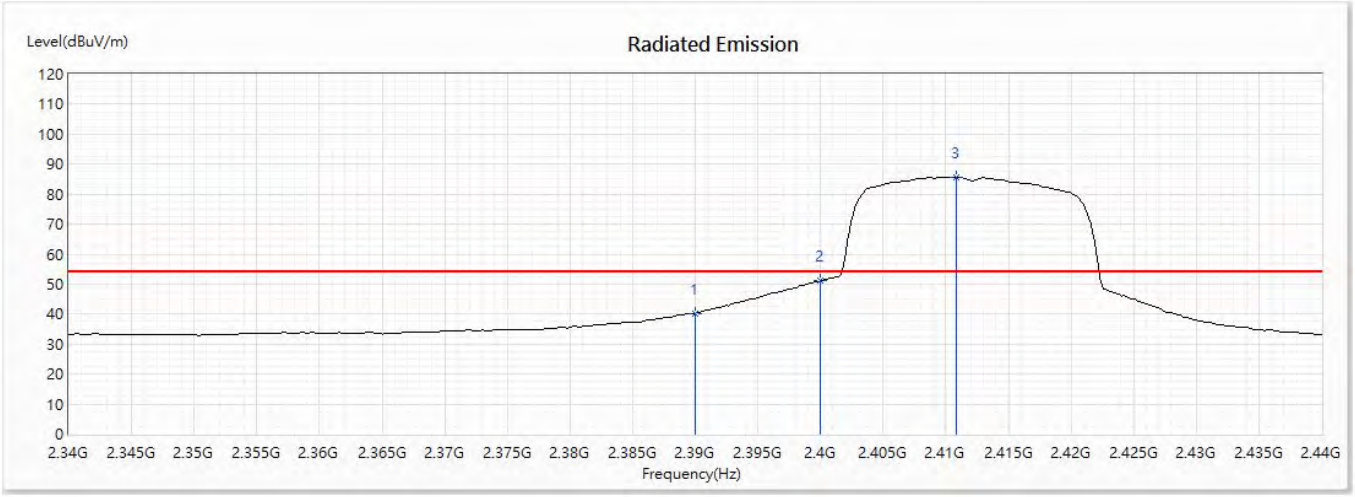
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	55.98	74.00	-18.02	57.53	-1.55	PK
2	2400	72.78	--	--	74.39	-1.61	PK
! 3	2410.29	96.28	--	--	97.95	-1.67	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Horizontal



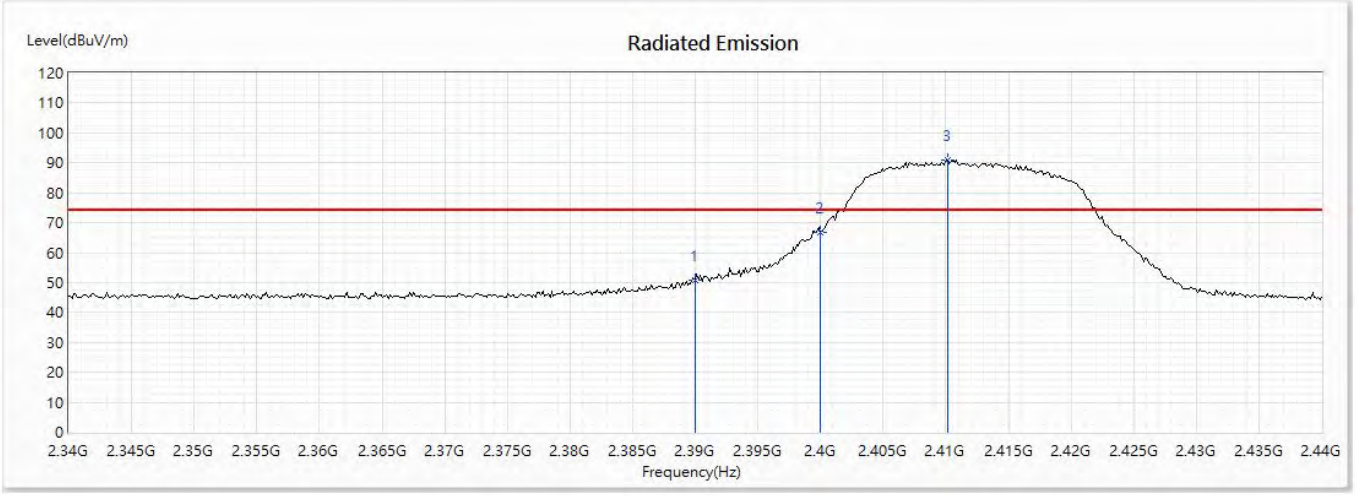
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	40.31	54.00	-13.69	41.86	-1.55	AV
2	2400	51.13	--	--	52.74	-1.61	AV
! 3	2410.87	85.73	--	--	87.41	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	DIGITAL CAMERA
Test Item	:	Band Edge Data
Test Date	:	2020/03/19
Test Mode	:	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Vertical



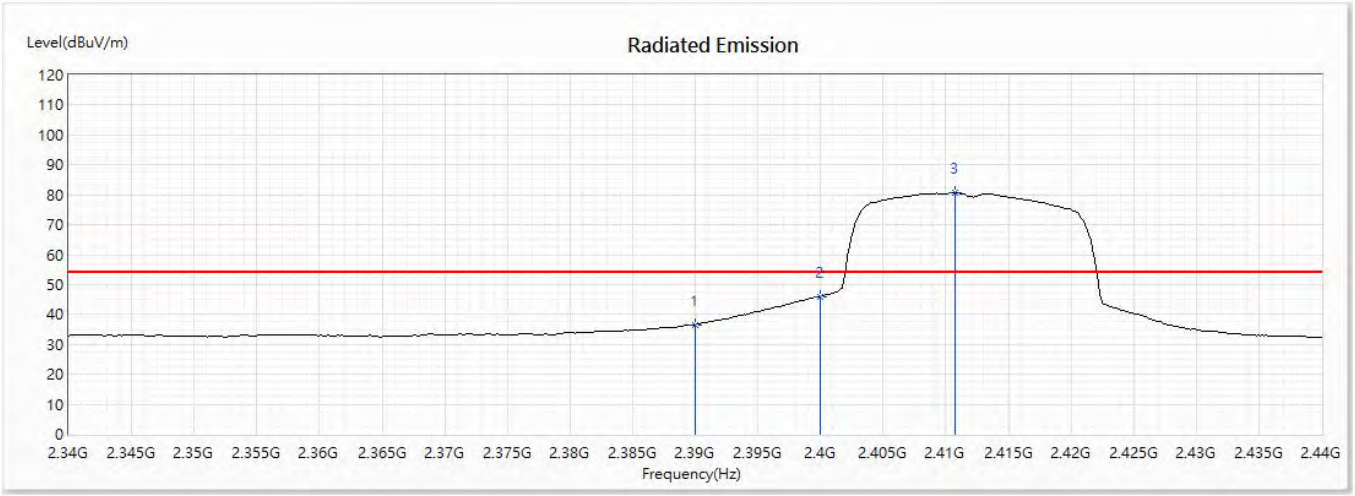
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	50.63	74.00	-23.37	52.18	-1.55	PK
2	2400	66.79	--	--	68.40	-1.61	PK
! 3	2410.145	91.05	--	--	92.72	-1.67	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

Vertical



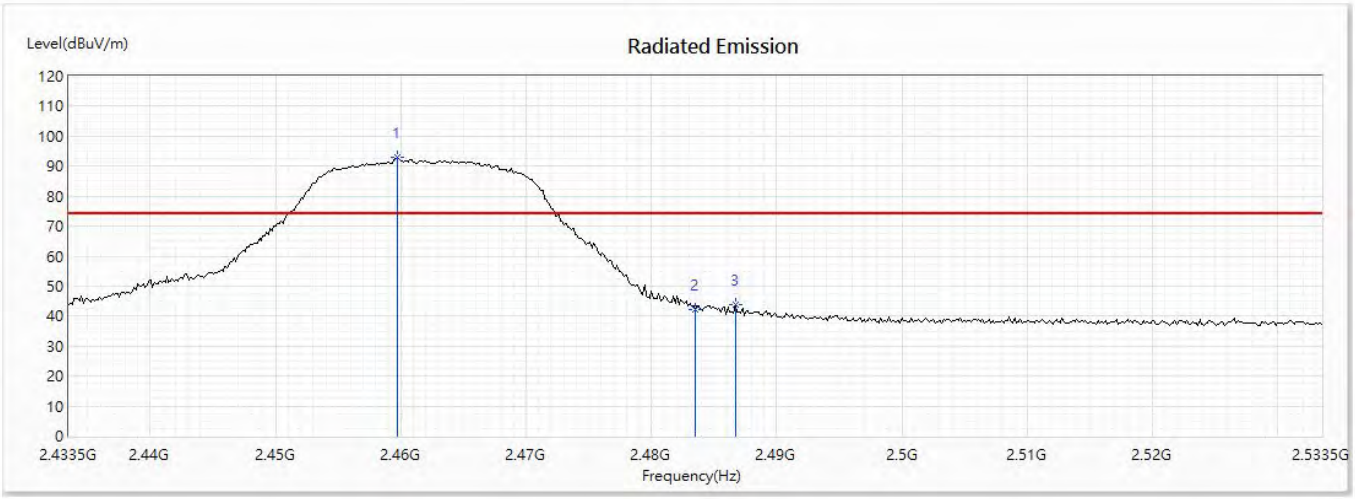
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2390	36.46	54.00	-17.54	38.01	-1.55	AV
2	2400	45.87	--	--	47.48	-1.61	AV
! 3	2410.725	80.61	--	--	82.29	-1.68	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

Horizontal



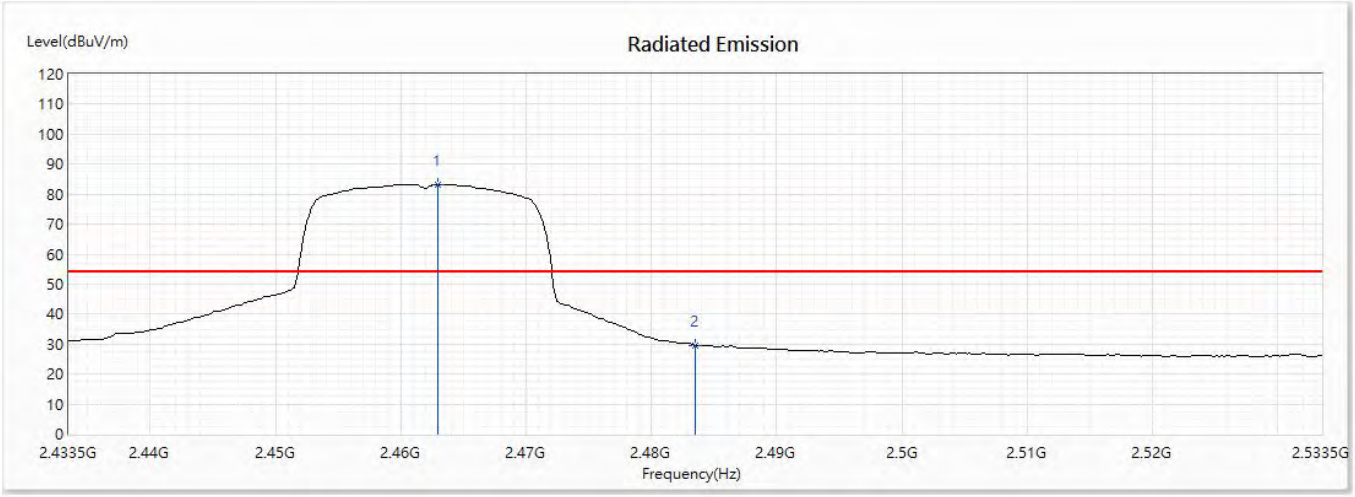
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2459.732	93.01	--	--	94.99	-1.98	PK
2	2483.5	42.34	74.00	-31.66	44.46	-2.12	PK
3	2486.688	43.69	74.00	-30.31	45.83	-2.14	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

Horizontal



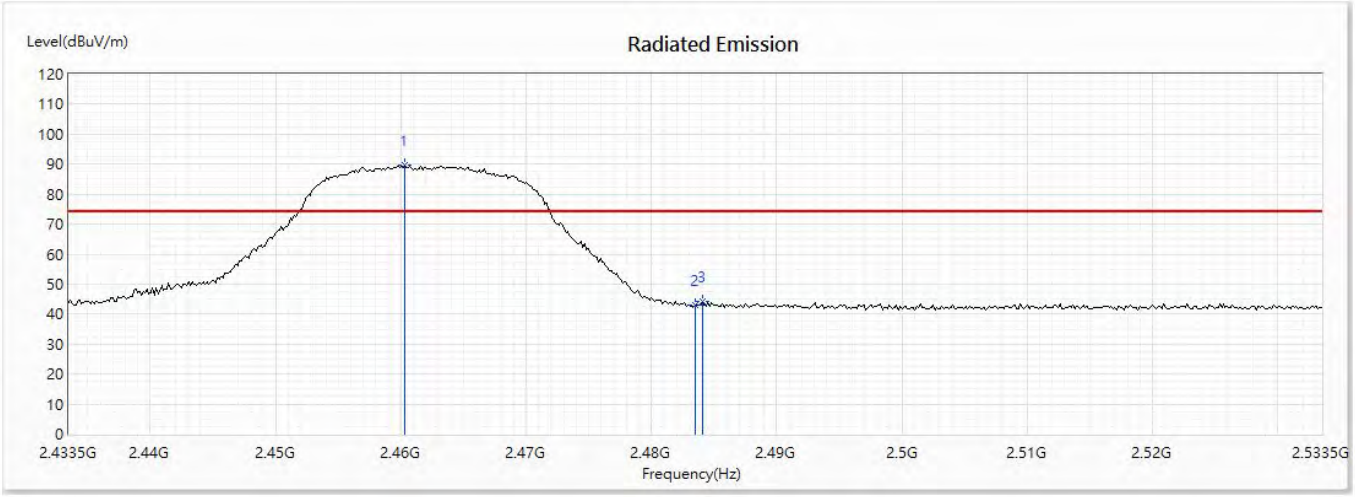
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2462.92	83.31	--	--	85.30	-1.99	AV
2	2483.5	29.50	54.00	-24.50	31.62	-2.12	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

Vertical



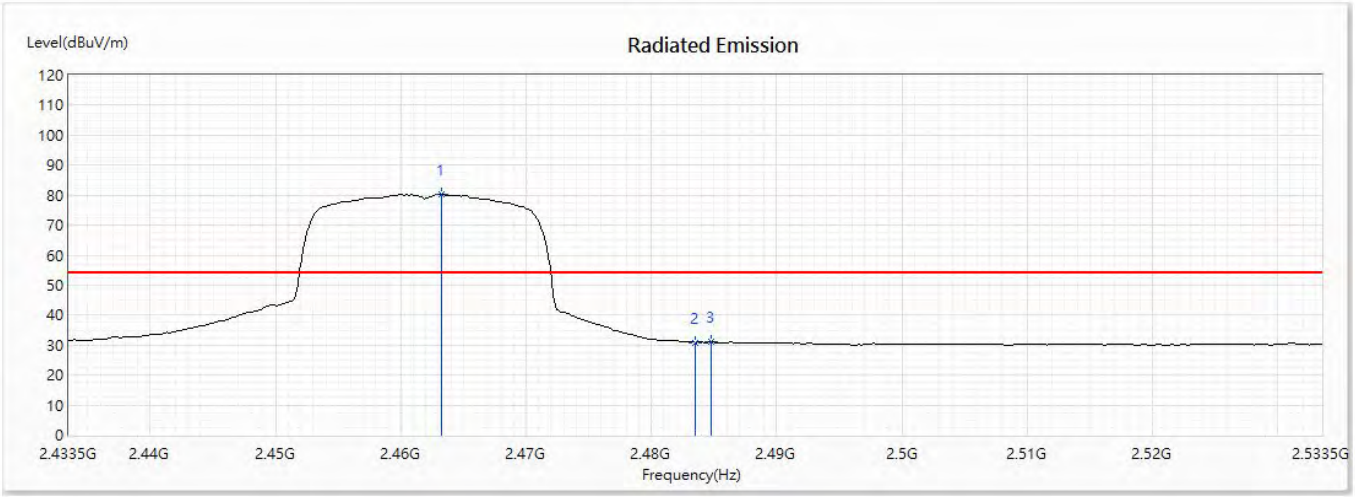
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2460.312	89.82	--	--	91.80	-1.98	PK
2	2483.5	43.13	74.00	-30.87	45.25	-2.12	PK
3	2484.08	44.17	74.00	-29.83	46.30	-2.13	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : DIGITAL CAMERA
Test Item : Band Edge Data
Test Date : 2020/03/19
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

Vertical



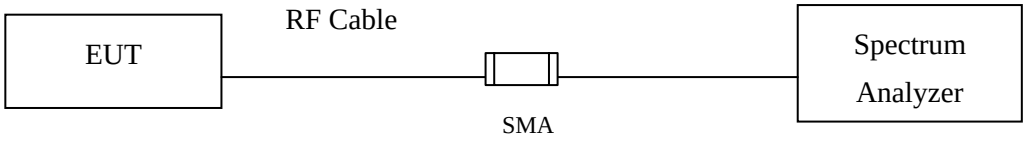
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
! 1	2463.21	80.19	--	--	82.19	-2.00	AV
2	2483.5	30.92	54.00	-23.08	33.04	-2.12	AV
3	2484.804	31.04	54.00	-22.96	33.17	-2.13	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

7. 6dB Bandwidth

7.1. Test Setup



7.2. Limits

The minimum bandwidth shall be at least 500 kHz.

7.3. Test Procedure

The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Uncertainty

± 283Hz

7.5. Test Result of 6dB Bandwidth

Product : DIGITAL CAMERA
Test Item : 6dB Bandwidth Data
Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	8200	>500	Pass
06	2437	9150	>500	Pass
11	2462	8650	>500	Pass

Figure Channel 01:

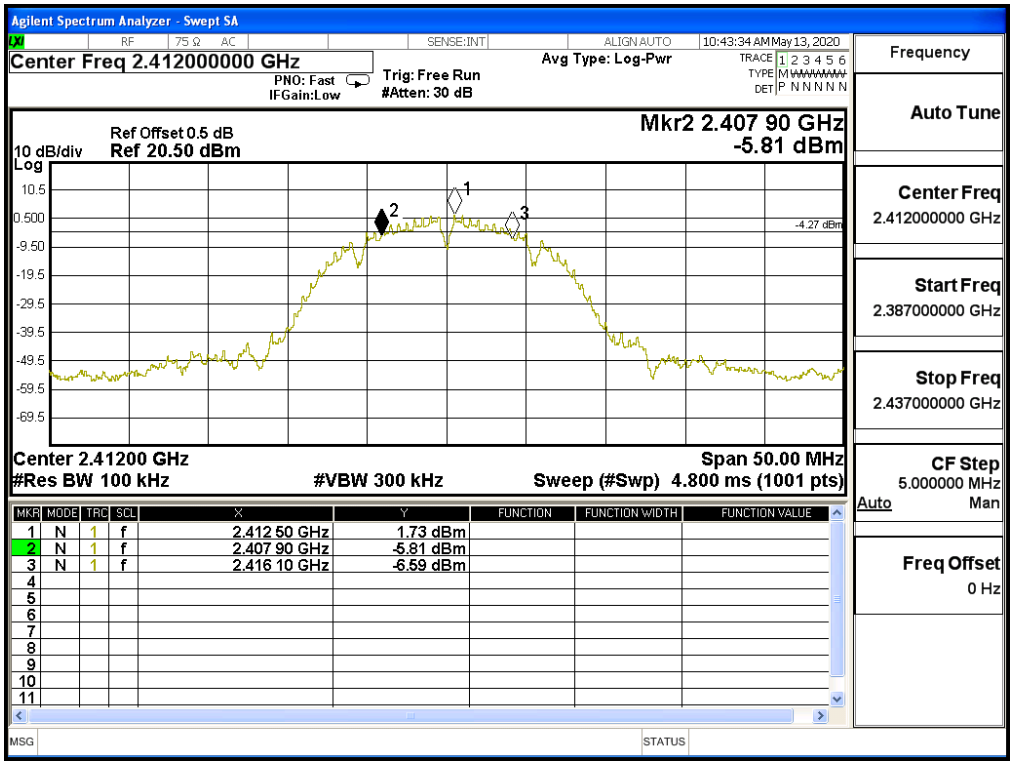


Figure Channel 06:

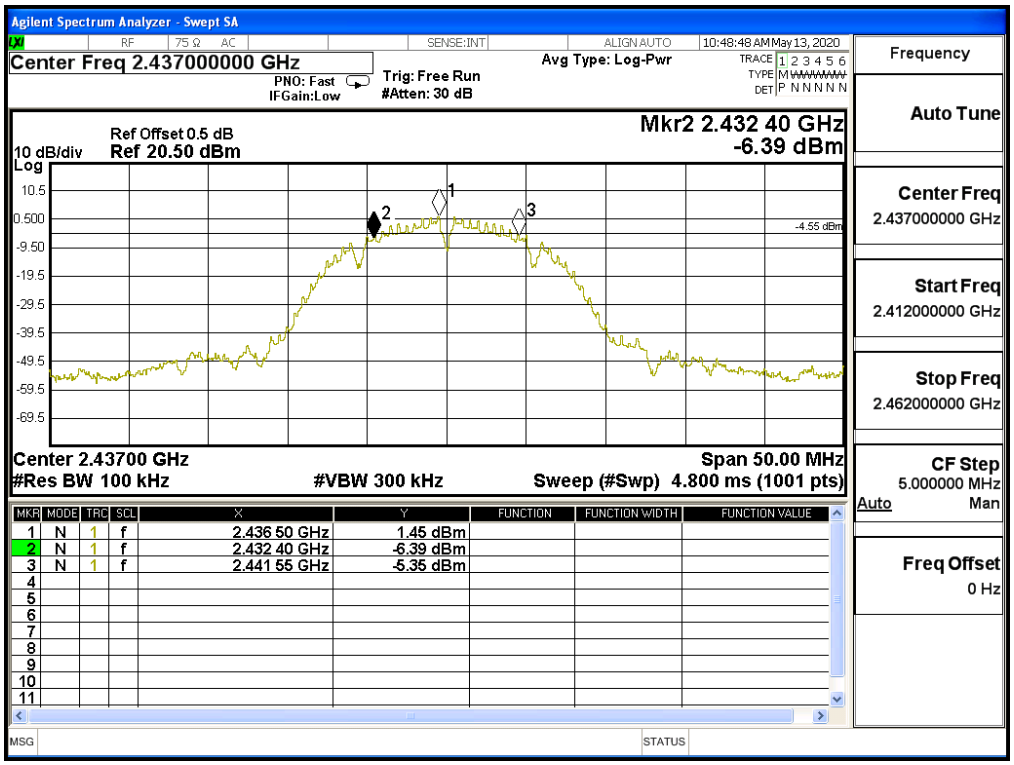
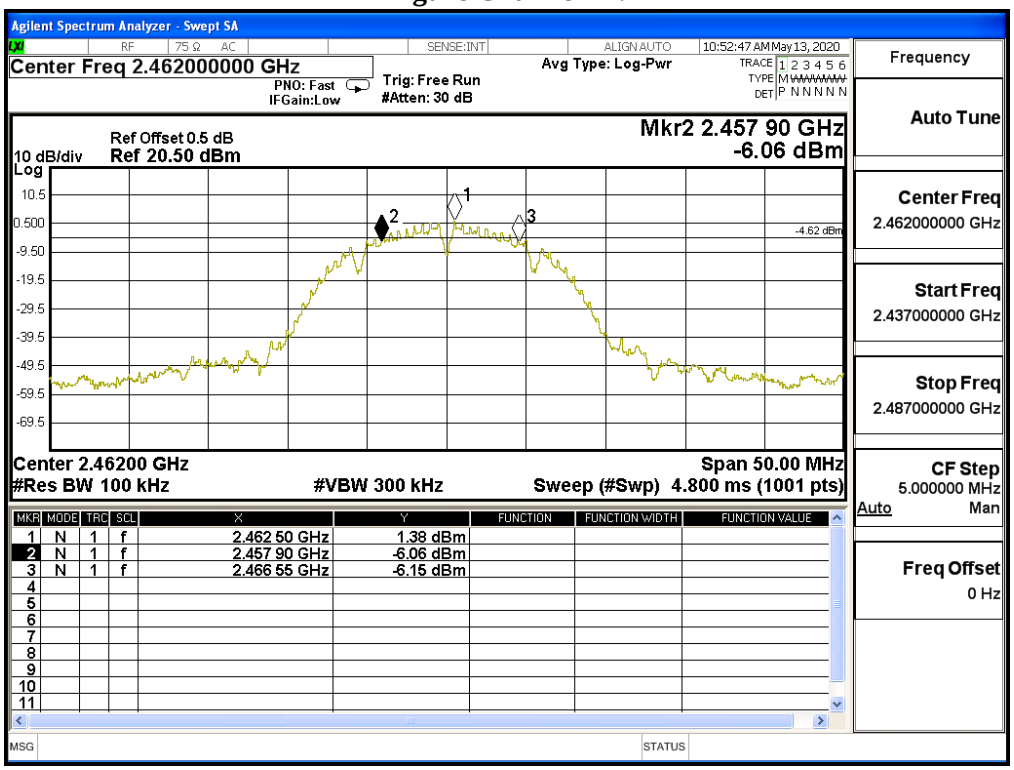


Figure Channel 11:



Product : DIGITAL CAMERA
Test Item : 6dB Bandwidth Data
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15150	>500	Pass
06	2437	15150	>500	Pass
11	2462	15150	>500	Pass

Figure Channel 01:

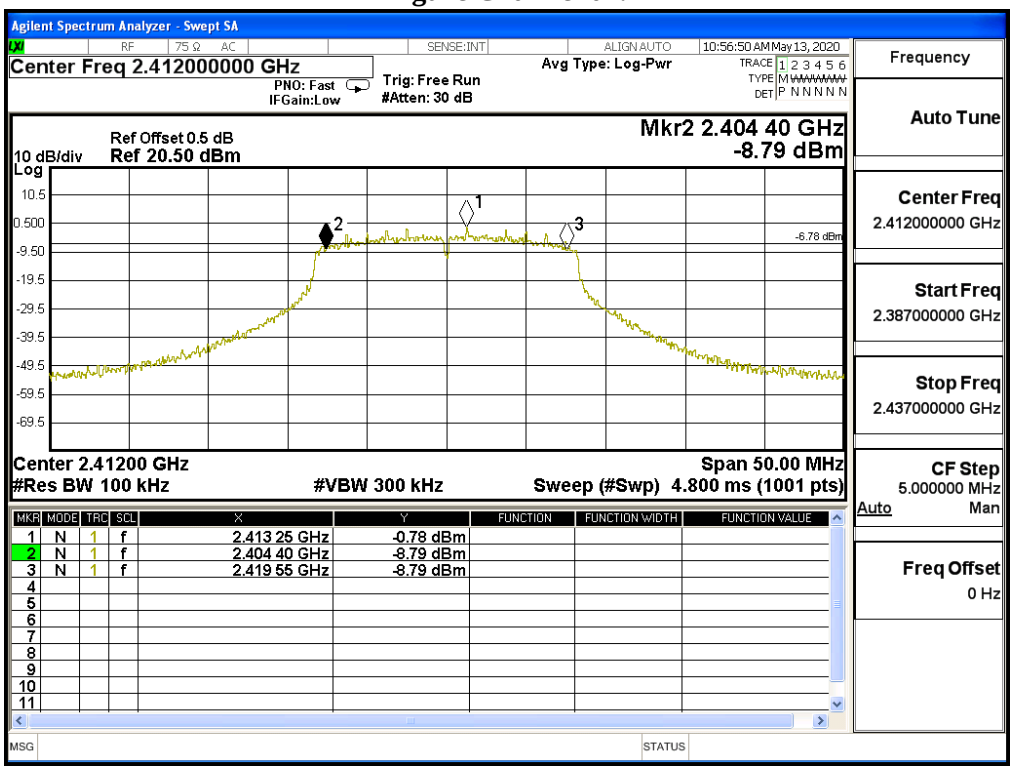


Figure Channel 06:

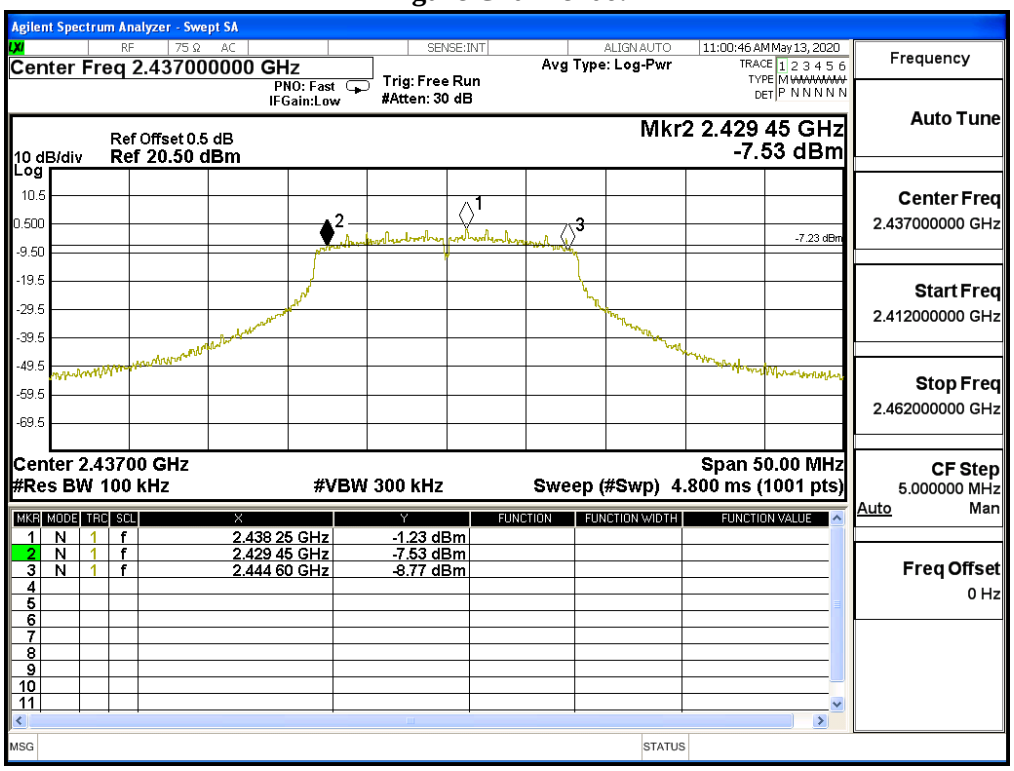
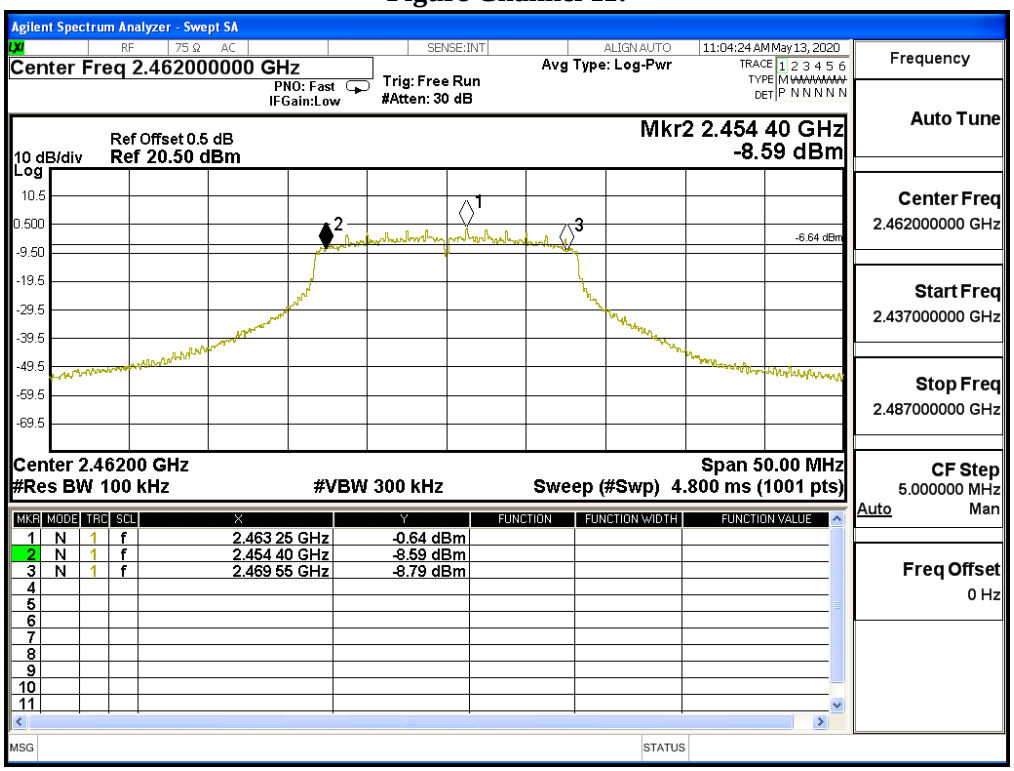


Figure Channel 11:



Product : DIGITAL CAMERA
Test Item : 6dB Bandwidth Data
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15200	>500	Pass
06	2437	15200	>500	Pass
11	2462	15200	>500	Pass

Figure Channel 01:

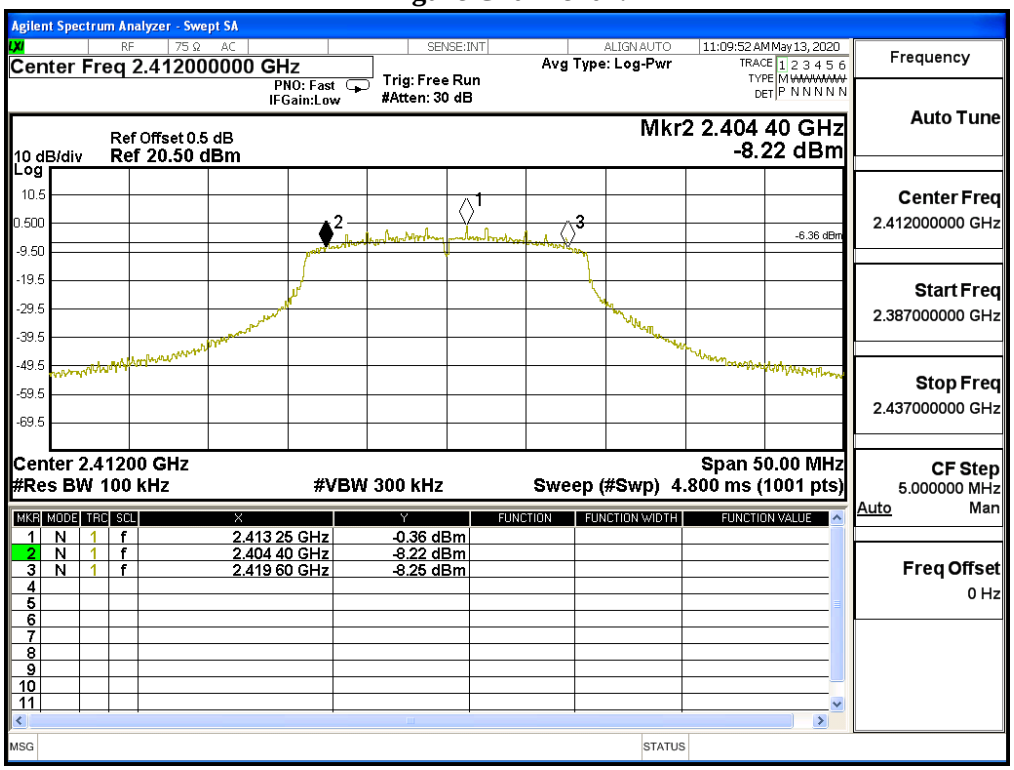


Figure Channel 06:

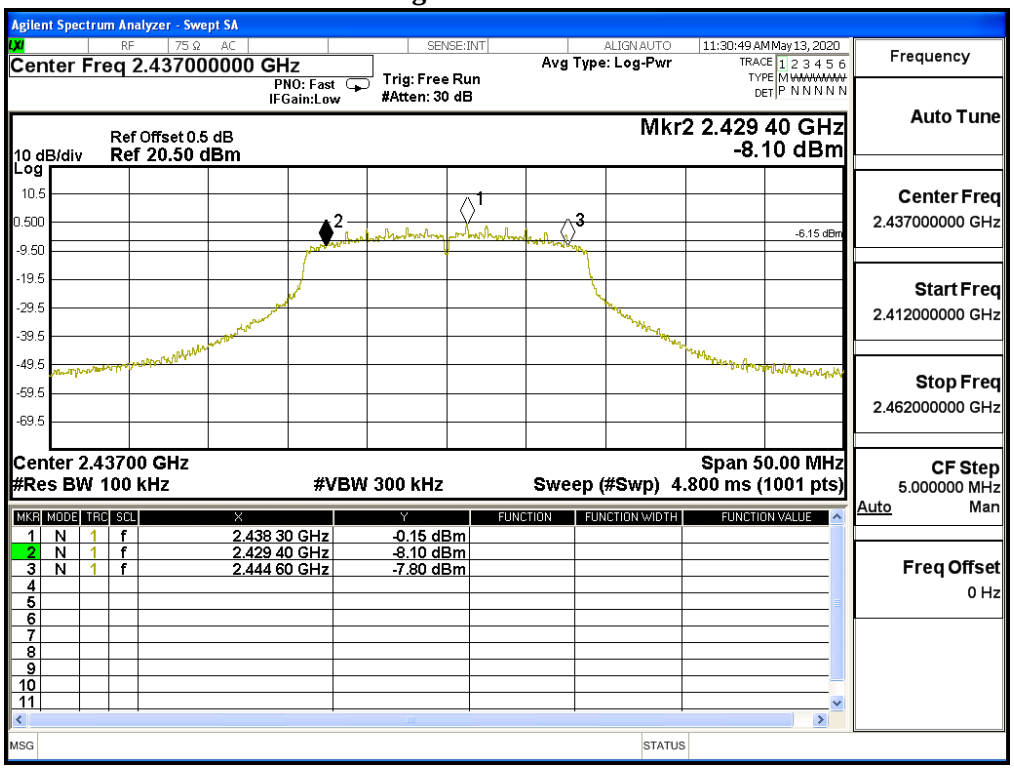
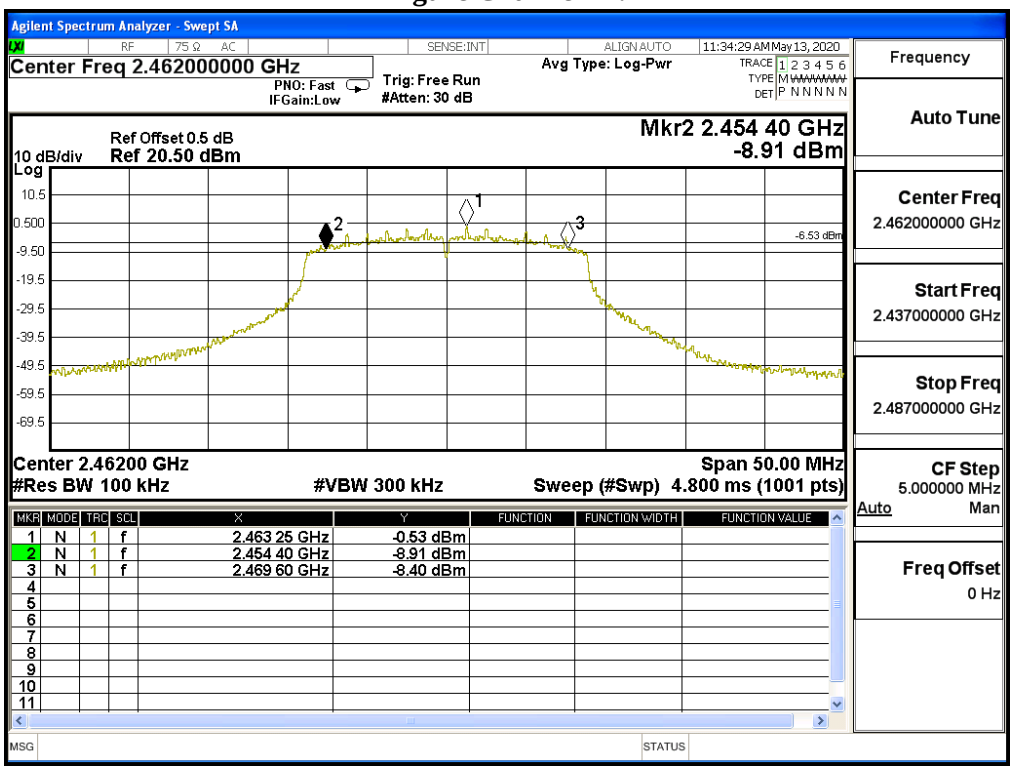
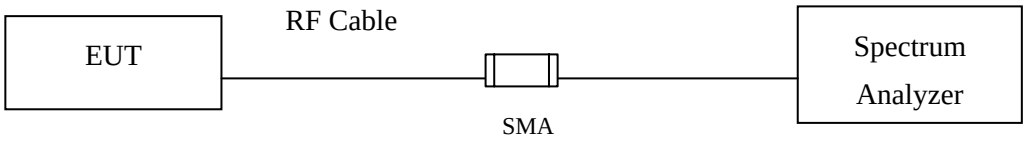


Figure Channel 11:



8. Power Density

8.1. Test Setup



8.2. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
The maximum power spectral density using C63.10 Section 11.10.2 Method PKPSD (peak PSD)

8.4. Uncertainty

± 1.20 dB

8.5. Test Result of Power Density

Product : DIGITAL CAMERA
Test Item : Power Density Data
Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	1.400	≦8dBm	Pass
06	2437	1.420	≦8dBm	Pass
11	2462	1.420	≦8dBm	Pass

Figure Channel 01:

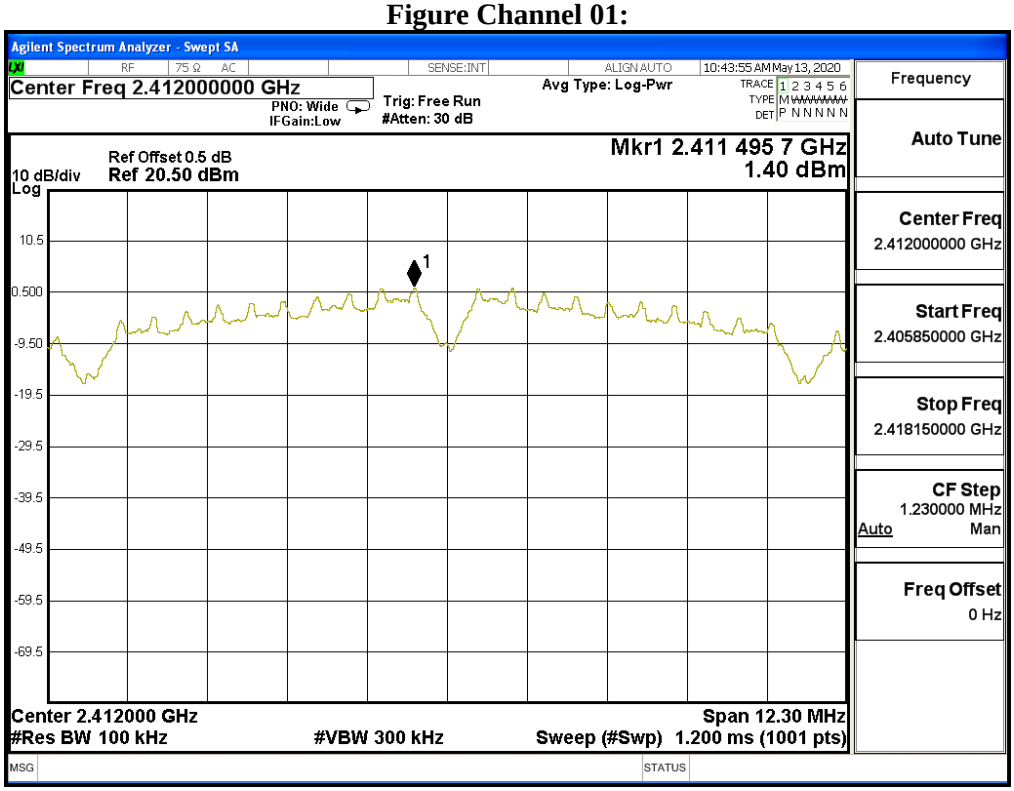


Figure Channel 06:

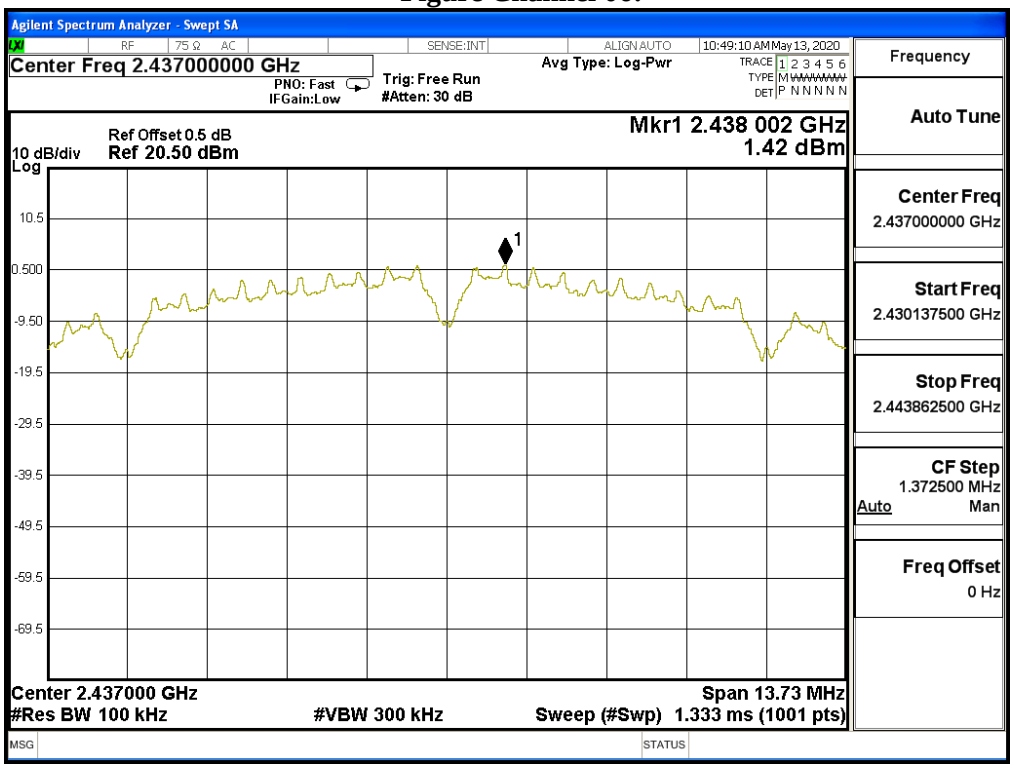
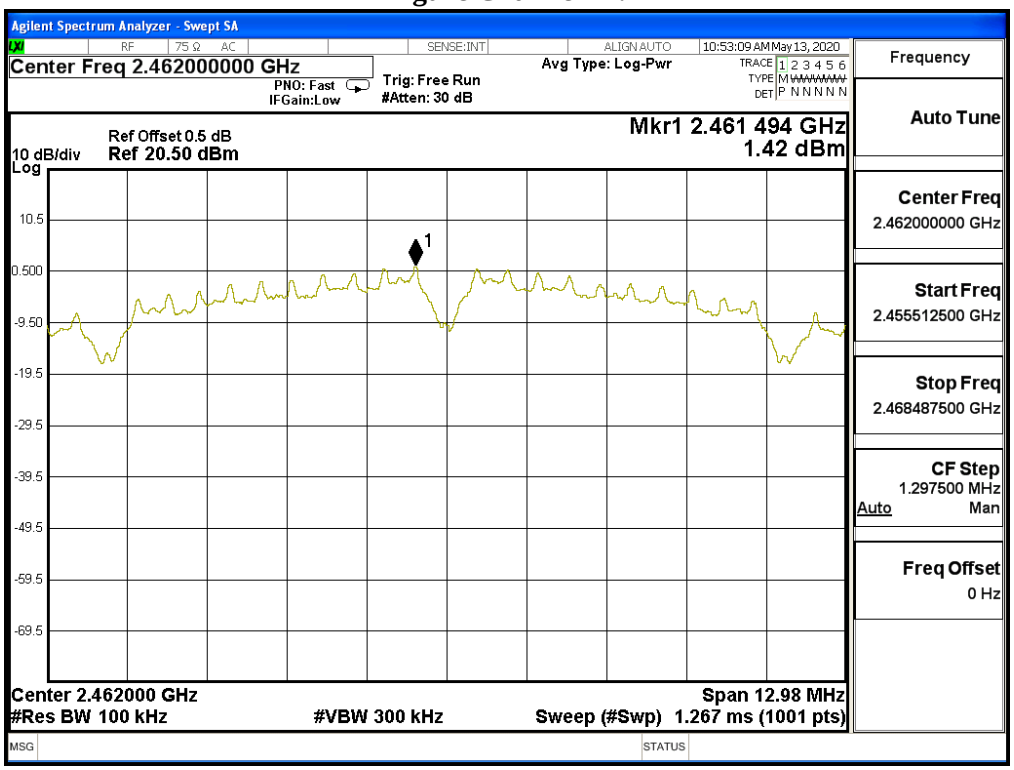


Figure Channel 11:



Product : DIGITAL CAMERA
Test Item : Power Density Data
Test Mode : Mode 2: Transmit (802.11g 6Mbps)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	-0.860	≦8dBm	Pass
06	2437	-0.600	≦8dBm	Pass
11	2462	-1.420	≦8dBm	Pass

Figure Channel 01:

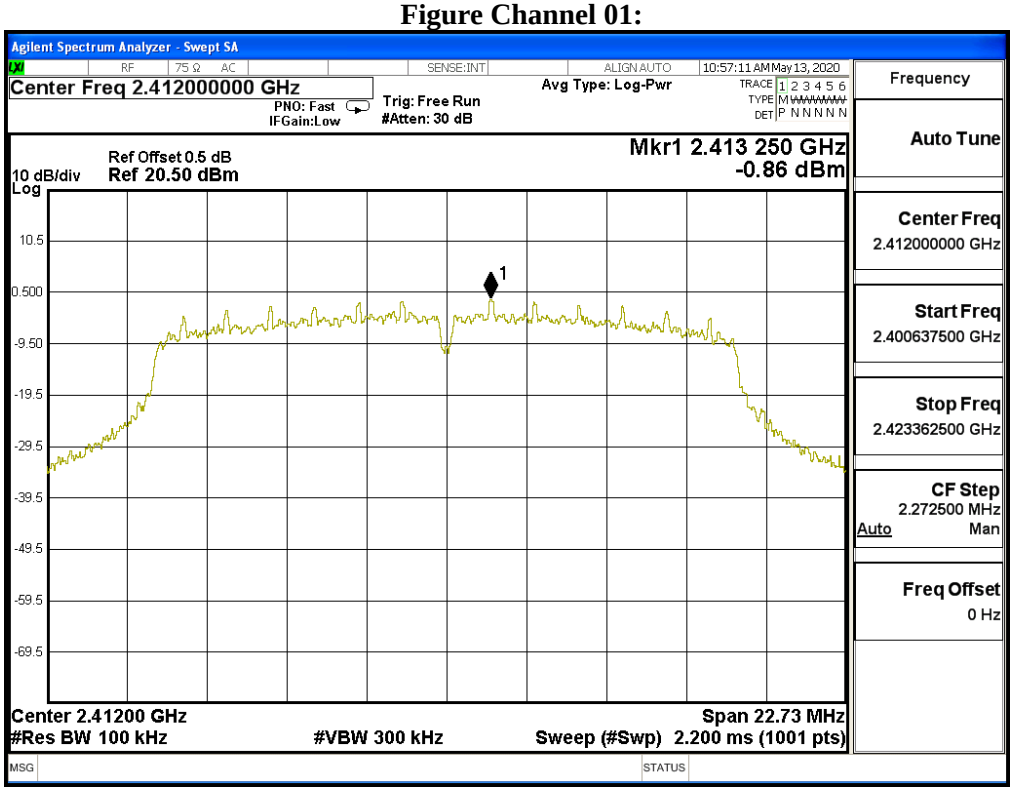


Figure Channel 06:

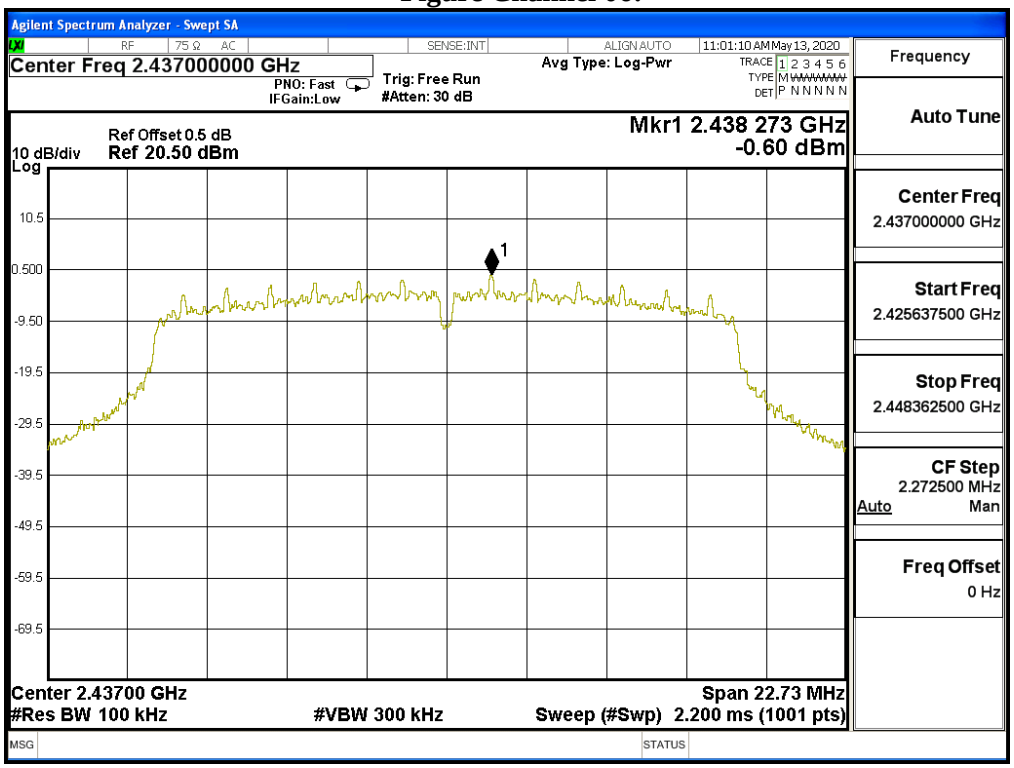
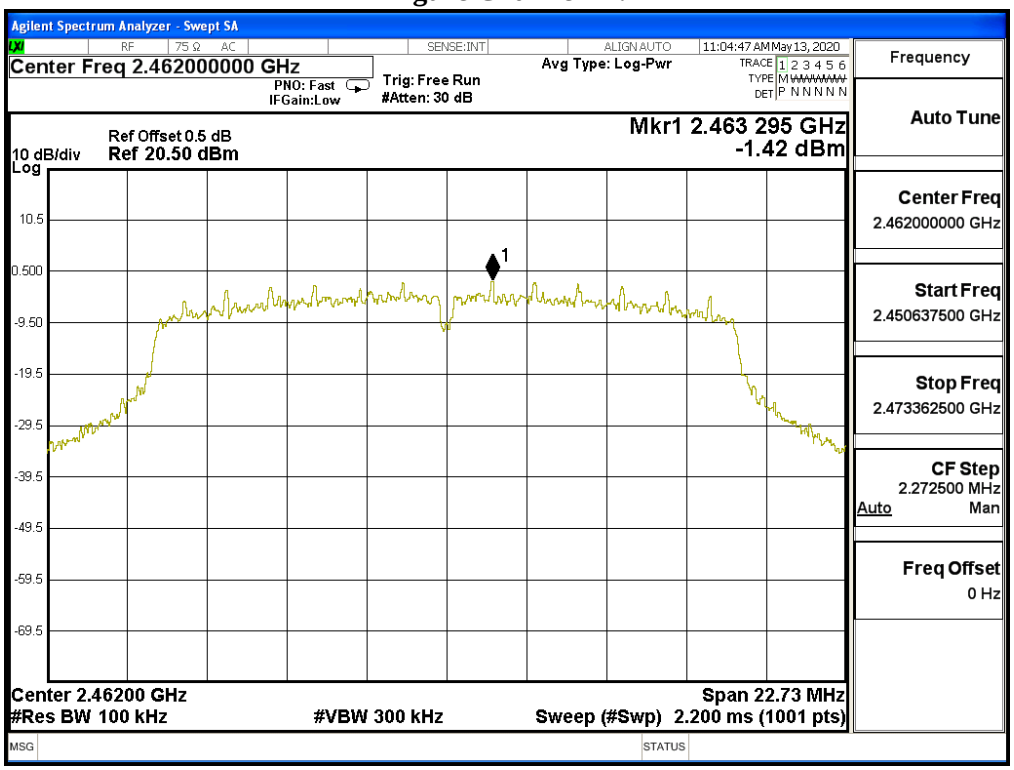


Figure Channel 11:



Product : DIGITAL CAMERA
Test Item : Power Density Data
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	-0.760	≦8dBm	Pass
06	2437	-0.010	≦8dBm	Pass
11	2462	-0.540	≦8dBm	Pass

Figure Channel 01:

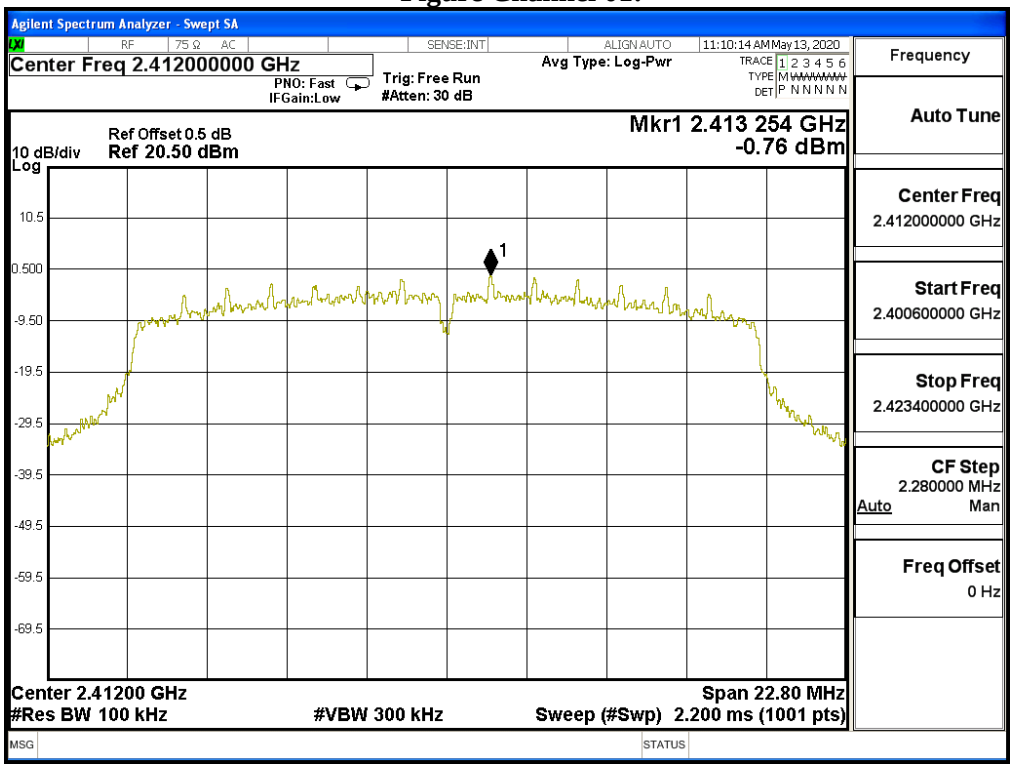


Figure Channel 06:

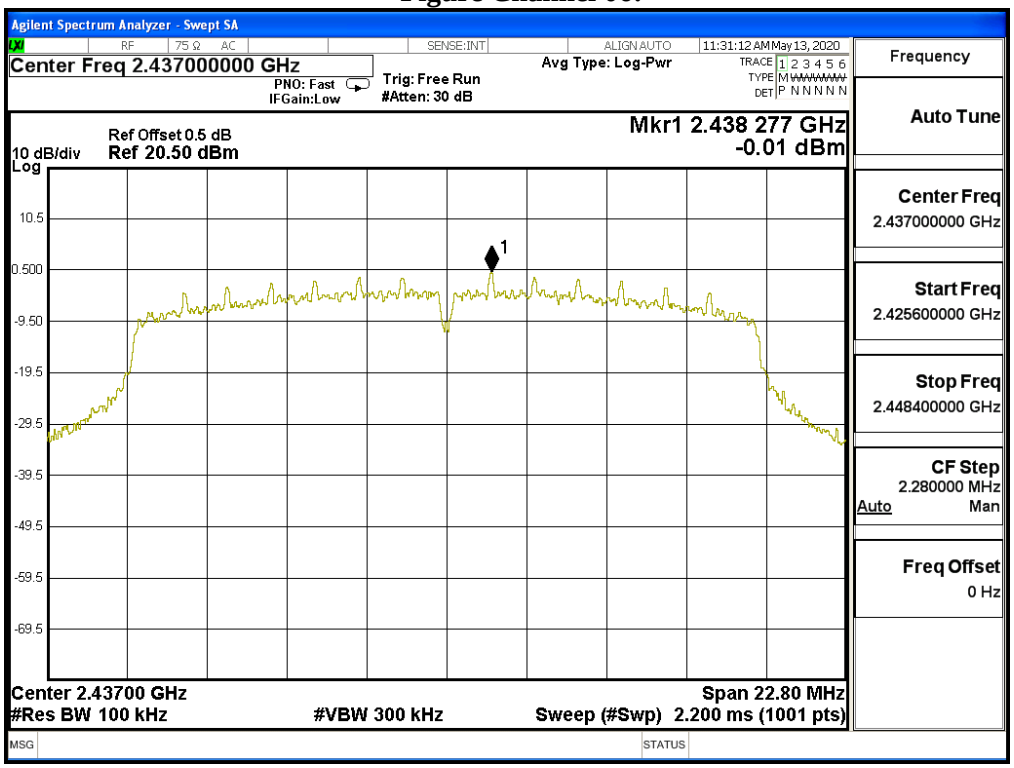
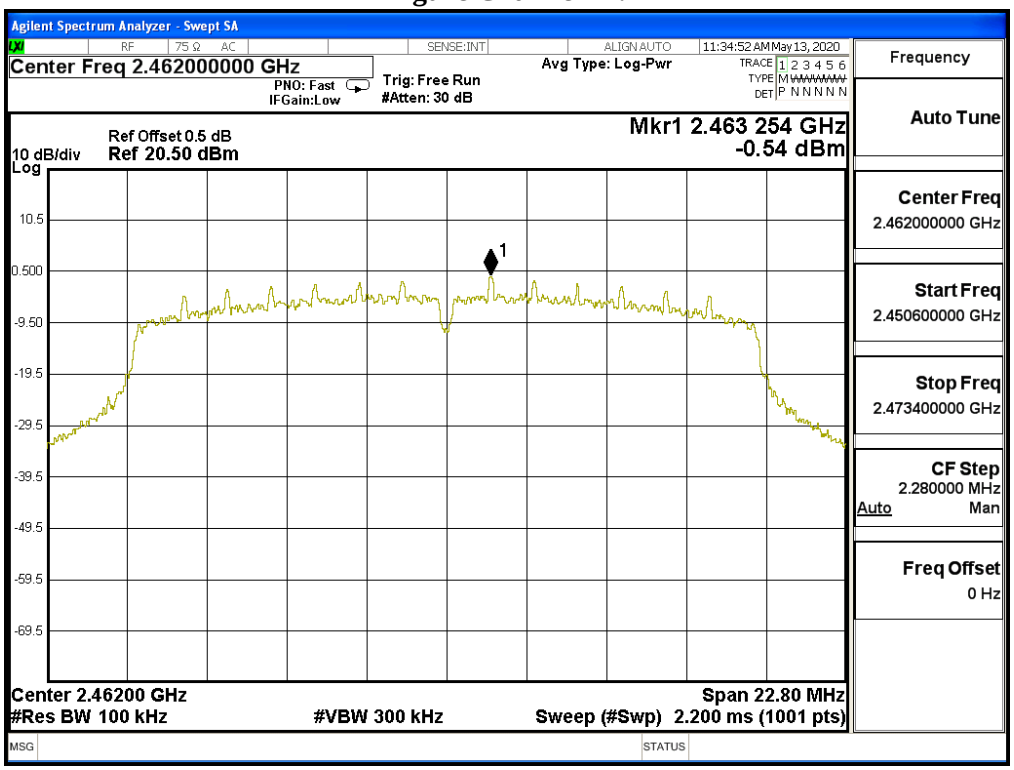
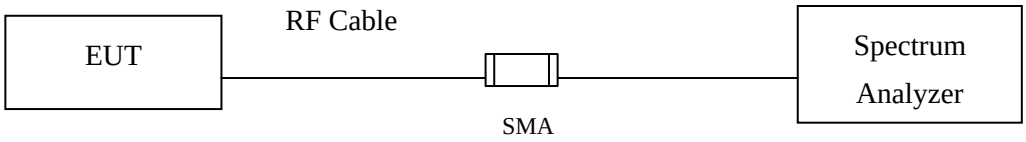


Figure Channel 11:



9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

9.3. Uncertainty

± 2.31msec

9.4. Test Result of Duty Cycle

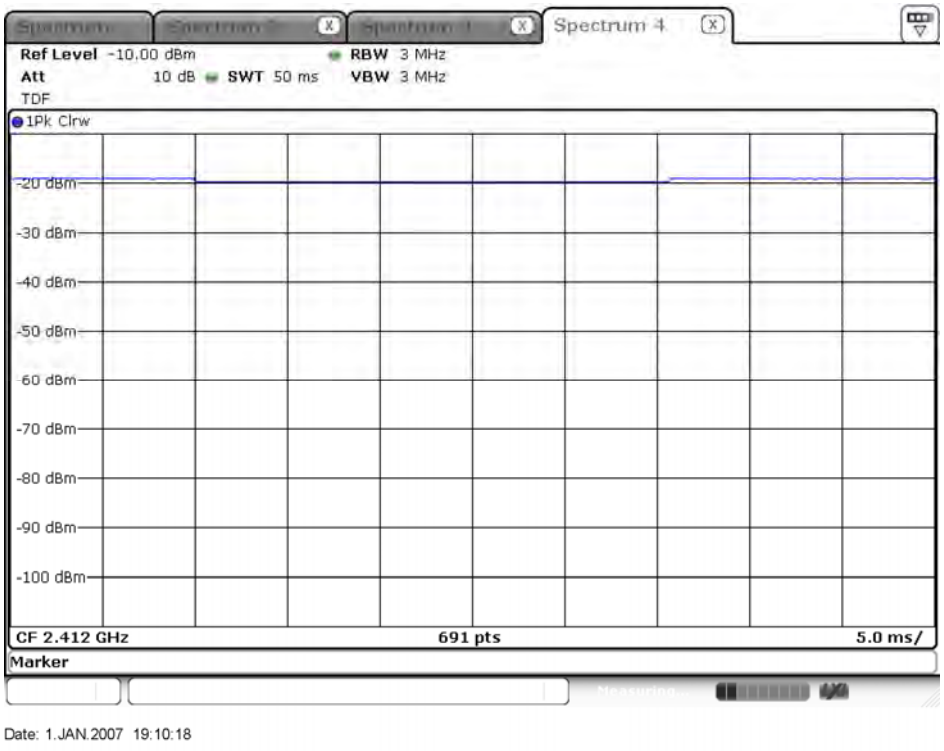
Product : DIGITAL CAMERA
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)

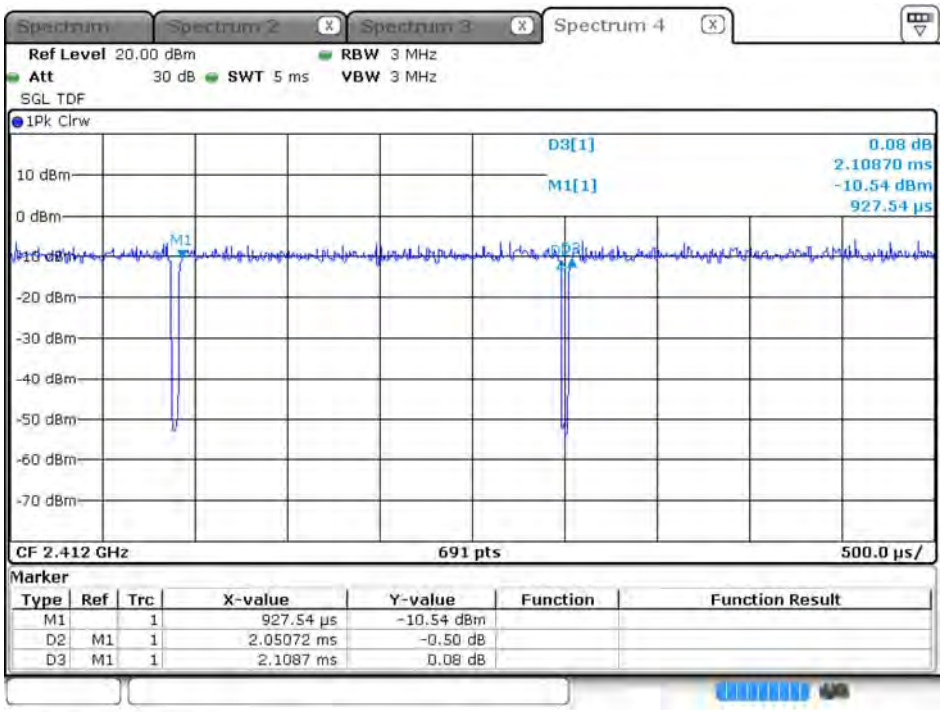
Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	1.0000	1.0000	100.00	0.00
802.11g	2.0507	2.1087	97.25	0.12
802.11n20	1.9130	2.0000	95.65	0.19

802.11b

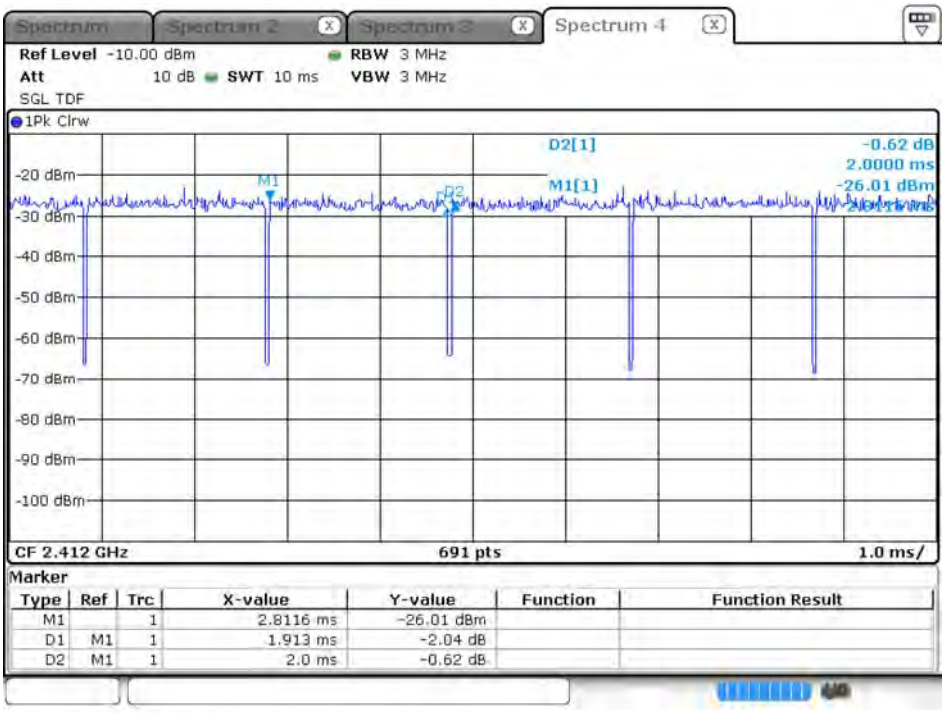


802.11g



Date: 1.JAN.2007 19:57:33

802.11n20



Date: 2.JAN.2007 01:35:13

10. EMI Reduction Method During Compliance Testing

No modification was made during testing.