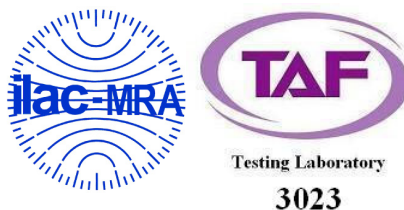


FCC Test Report

Product Name	EDB10
Model No	121132
FCC ID.	S9E-121132

Applicant	Trimble Inc.
Address	5475 Kellenburger Rd., Dayton, Ohio 45424, United States

Date of Receipt	Nov. 20, 2020
Issue Date	Apr. 15, 2021
Report No.	20B0761R-E3032110113
Report Version	V1.0



The test results relate only to the samples tested.

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

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

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

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

Test Report

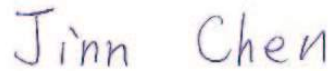
Issue Date: Apr. 15, 2021

Report No.: 20B0761R-E3032110113



Product Name	EDB10
Applicant	Trimble Inc.
Address	5475 Kellenburger Rd., Dayton, Ohio 45424, United States
Manufacturer	Trimble Inc.
Model No.	121132
FCC ID.	S9E-121132
EUT Rated Voltage	DC 5V (USB) or DC 3.63V (Battery)
EUT Test Voltage	AC 120V/60Hz
Trade Name	Trimble
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Senior Adm. Specialist / Jinn Chen)

Tested By :



(Senior Engineer / Steven Tsai)

Approved By :



(Director / Vincent Lin)

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Revision History

Report No.	Version	Description	Issued Date
20B0761R-E3032110113	V1.0	Initial issue of report.	Apr. 15, 2021

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	EDB10
Trade Name	Trimble
Model No.	121132
FCC ID.	S9E-121132
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
Channel separation	802.11b/g/n: 5 MHz
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

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Pulse LARSEN Antennas	W3008	Chip Antenna	1.1 dBi for 2.4 GHz

Note: The antenna of EUT is conforming 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 an EDB10 with built-in WLAN and Bluetooth transceiver, this report for 2.4GHz 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 transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.

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

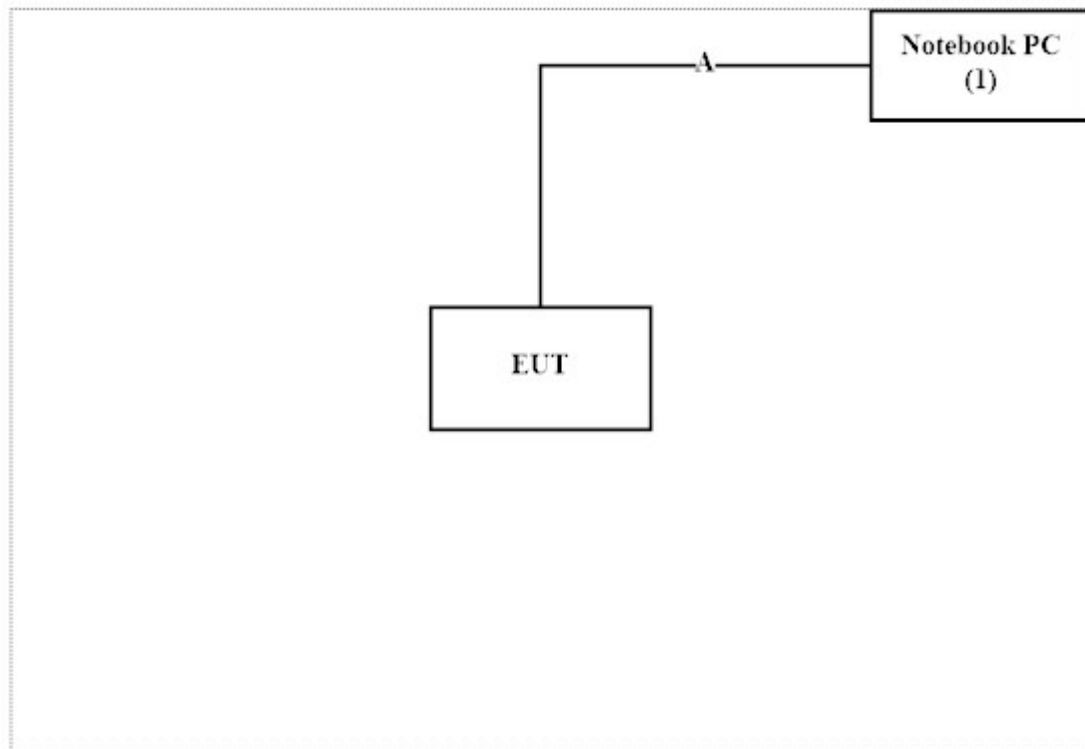
1.2. Tested System Details

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 E5440	74BTK32	Non-shielded, 0.8m

Signal Cable Type	Signal cable Description
A USB Cable	Shielded, 1.2m

1.3. Configuration of Tested System



1.4. EUT Exercise Software

1. Setup the EUT as shown in Section 1.3.
2. Execute software “wl ver.1.15 RC0.0” 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.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	23.8°C
	Humidity (%RH)	10~90 %	54.8%
Radiated Emission	Temperature (°C)	10~40 °C	21.9°C
	Humidity (%RH)	10~90 %	72%
Conductive	Temperature (°C)	10~40 °C	22°C
	Humidity (%RH)	10~90 %	55%

USA : FCC Registration Number: TW0023

Canada : IC Registration Number: 25880

For Conducted

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No.159, Sec. 2, Wenhua 1st Rd., Linkou Dist.,
New Taipei City 24457, Taiwan, R.O.C.
Phone number : 886-2-2602-7968
Fax number : 866-2-2602-3286
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

For Radiated

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 6, Lane 75, Wenlin St., Linkou Dist.,
New Taipei City 24457, Taiwan, R.O.C.
Phone number : 886-2-2602-7968
Fax number : 866-2-2602-3286
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.6. List of Test Item and Equipment

For Conduction measurements /ASR1

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	EMI Test Receiver	R&S	ESR7	101601	2021.01.04	2022.01.03
X	Two-Line V-Network	R&S	ENV216	101306	2021.04.08	2022.04.07
X	Two-Line V-Network	R&S	ENV216	101307	2020.04.17	2021.04.16
X	Coaxial Cable	DEKRA	RG400_BNC	RF001	2020.05.24	2021.05.23

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 Testing System V2.0

For Conducted measurements /ASR2

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSV30	103466	2020.12.28	2021.12.27
X	Peak Power Analyzer	KEYSIGHT	8900B	MY51000539	2020.05.13	2021.05.12
X	Power Sensor	KEYSIGHT	N1923A	MY59240002	2020.05.22	2021.05.21
X	Power Sensor	KEYSIGHT	N1923A	MY59240003	2020.05.22	2021.05.21

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 System V9.0.5.

For Radiated measurements /AC3

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Loop Antenna	AMETEK	HLA6121	56736	2021.04.14	2022.04.13
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	01125	2020.07.31	2021.07.30
X	Horn Antenna	ETS-Lindgren	3117	00227709	2020.11.03	2021.11.02
X	Horn Antenna	Com-Power	AH-840	10090014	2020.08.05	2021.08.04
X	Pre-Amplifier	SGH	EM330	060736	2020.08.03	2021.08.02
X	Pre-Amplifier	SGH	PRAMP118	20200701	2020.08.03	2021.08.02
X	Pre-Amplifier	SGH	PRAMP0510	20200703	2020.08.03	2021.08.02
X	Pre-Amplifier	SGH	PRAMP184	20200705	2020.08.04	2021.08.03
X	Filter	MICRO TRONICS	BRM50702	G249	2020.08.25	2021.08.24
	Filter	MICRO TRONICS	BRM50716	G187	2020.08.25	2021.08.24
X	EMI Test Receiver	R&S	ESR3	102792	2020.12.15	2021.12.14
X	Spectrum Analyzer	R&S	FSV40	101894	2021.03.10	2022.03.09
X	Coaxial Cable	SUHNER	SUCOFLEX 106	RF003	2020.09.18	2021.09.17
X	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2020.06.10	2021.06.09

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 Testing System V2.0

1.7. Uncertainty

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

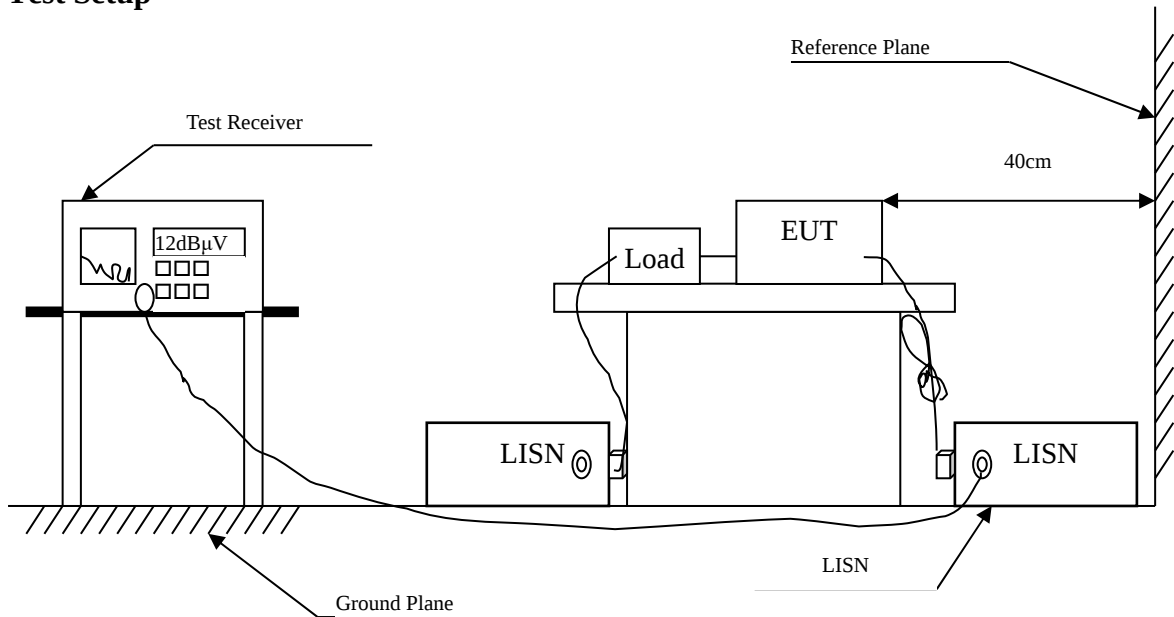
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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.

Test item	Uncertainty	
Conducted Emission	± 3.42 dB	
Peak Power Output	± 0.91 dB	
Radiated Emission	Under 1GHz ± 4.06 dB	Above 1GHz ± 3.73 dB
RF Antenna Conducted Test	± 2.53 dB	
Band Edge	Under 1GHz ± 4.06 dB	Above 1GHz ± 3.73 dB
6dB Bandwidth	± 682.83 Hz	
Power Density	± 2.53 dB	
Duty Cycle	± 2.31 ms	

2. Conducted Emission

2.1. Test Setup



2.2. Limits

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

2.3. Test Procedure

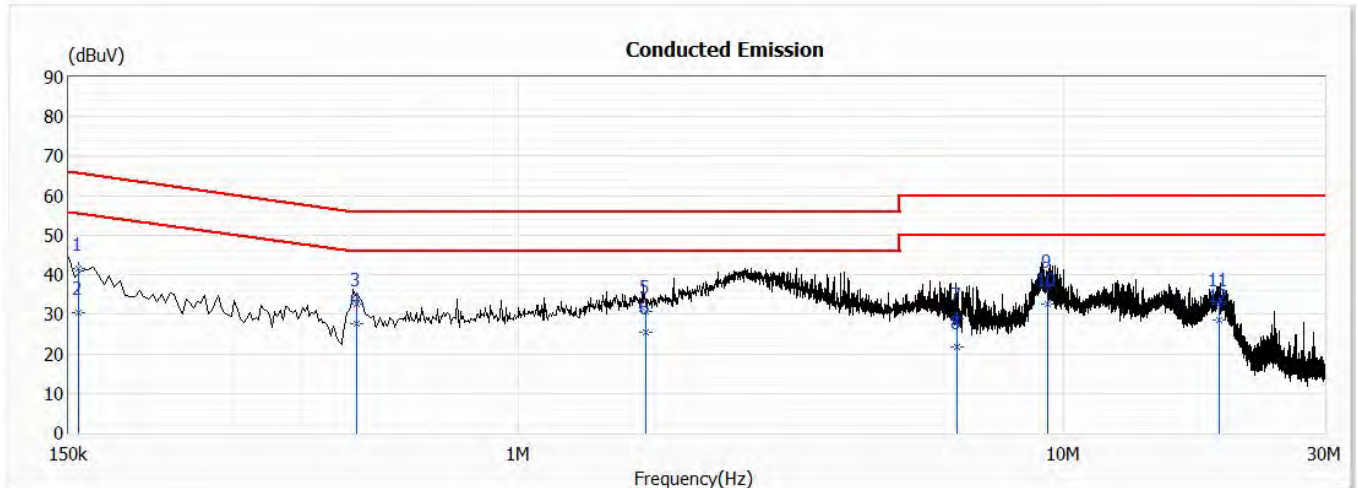
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling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

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

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

2.4. Test Result of Conducted Emission

Product : EDB10
 Test Item : Conducted Emission Test
 Power Line : L 1
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2437MHz)
 Test Date : 2021/04/07

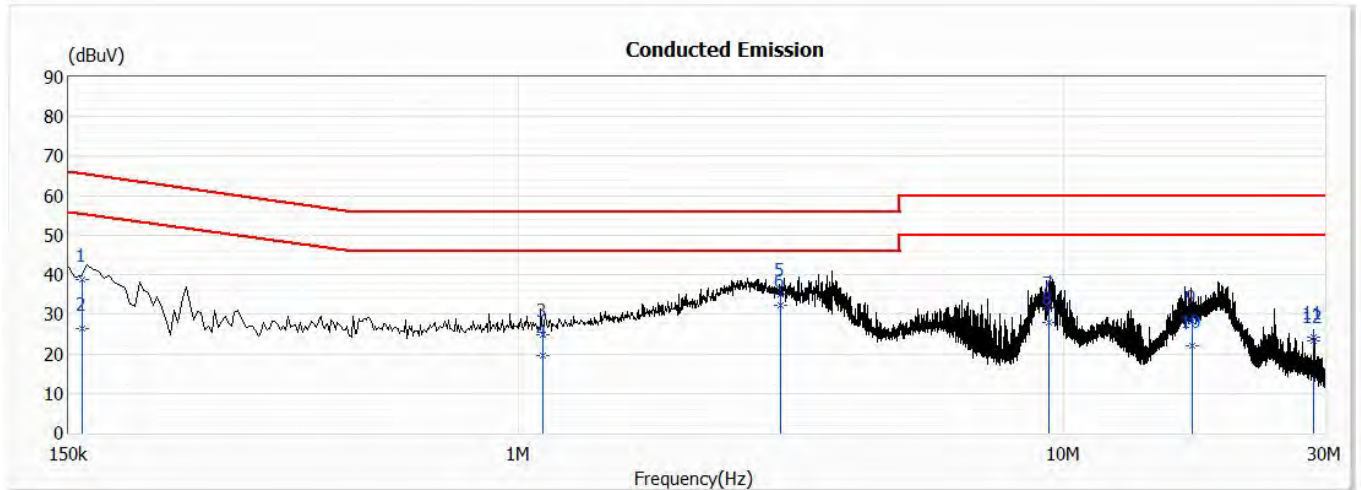


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.157	41.53	65.64	-24.11	31.87	9.66	QP
2	0.157	30.41	55.64	-25.23	20.75	9.66	AV
3	0.505	32.73	56.00	-23.27	23.07	9.66	QP
4	0.505	27.48	46.00	-18.52	17.82	9.66	AV
5	1.716	30.69	56.00	-25.31	20.98	9.71	QP
6	1.716	25.55	46.00	-20.45	15.84	9.71	AV
7	6.349	28.71	60.00	-31.29	18.88	9.82	QP
8	6.349	21.73	50.00	-28.27	11.91	9.82	AV
9	9.330	37.30	60.00	-22.70	27.43	9.87	QP
*10	9.330	32.74	50.00	-17.26	22.86	9.87	AV
11	19.271	32.67	60.00	-27.33	22.70	9.97	QP
12	19.271	28.55	50.00	-21.45	18.58	9.97	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : EDB10
 Test Item : Conducted Emission Test
 Power Line : N
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2437MHz)
 Test Date : 2021/04/07



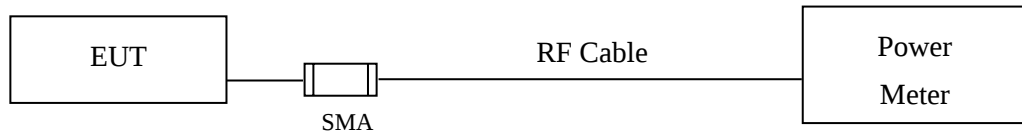
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.159	38.77	65.51	-26.74	29.10	9.67	QP
2	0.159	26.43	55.51	-29.08	16.76	9.67	AV
3	1.107	24.95	56.00	-31.05	15.26	9.69	QP
4	1.107	19.41	46.00	-26.59	9.72	9.69	AV
5	3.019	35.02	56.00	-20.98	25.27	9.76	QP
*6	3.019	32.16	46.00	-13.84	22.41	9.76	AV
7	9.364	31.78	60.00	-28.22	21.88	9.89	QP
8	9.364	28.08	50.00	-21.92	18.18	9.89	AV
9	17.168	28.32	60.00	-31.68	18.30	10.02	QP
10	17.168	21.97	50.00	-28.03	11.95	10.02	AV
11	28.672	24.36	60.00	-35.64	14.26	10.09	QP
12	28.672	23.24	50.00	-26.76	13.14	10.09	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

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. Test Result of Peak Power Output

Product : EDB10
 Test Item : Peak Power Output Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)
 Test Date : 2021/03/30

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	18.11	--	--	--	20.5	<30dBm	Pass
06	2437	18.13	18.02	17.95	17.83	20.37	<30dBm	Pass
11	2462	18.05	--	--	--	20.31	<30dBm	Pass

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

Product : EDB10
 Test Item : Peak Power Output Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)
 Test Date : 2021/03/30

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	17.05	--	--	--	--	--	--	--	24.66	<30dBm	Pass
06	2437	18.33	18.26	18.18	18.09	18.02	17.92	17.86	17.78	24.97	<30dBm	Pass
11	2462	18.2	--	--	--	--	--	--	--	24.58	<30dBm	Pass

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

Product : EDB10
 Test Item : Peak Power Output Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)
 Test Date : 2021/03/30

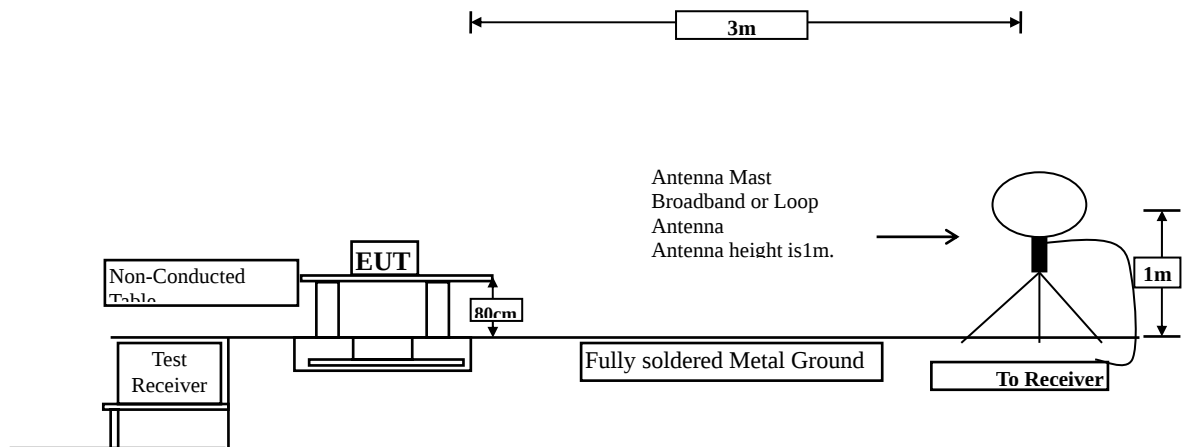
Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	7.2		
		Measurement Level (dBm)										
01	2412	15.95	--	--	--	--	--	--	--	24.34	<30dBm	Pass
06	2437	18.1	18.07	18	17.97	17.94	17.84	17.74	17.66	24.8	<30dBm	Pass
11	2462	17.12	--	--	--	--	--	--	--	24.45	<30dBm	Pass

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

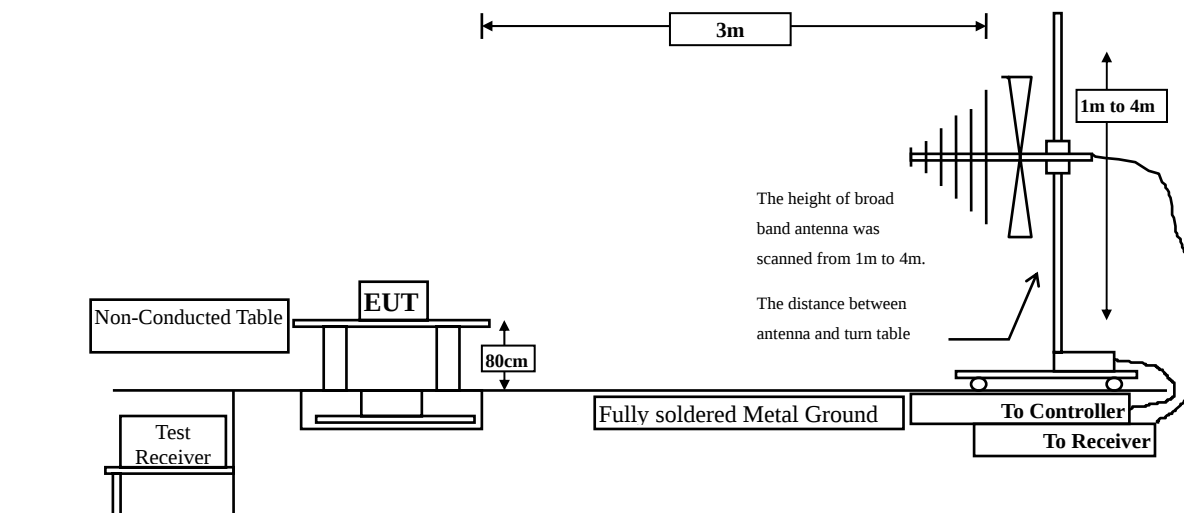
4. Radiated Emission

4.1. Test Setup

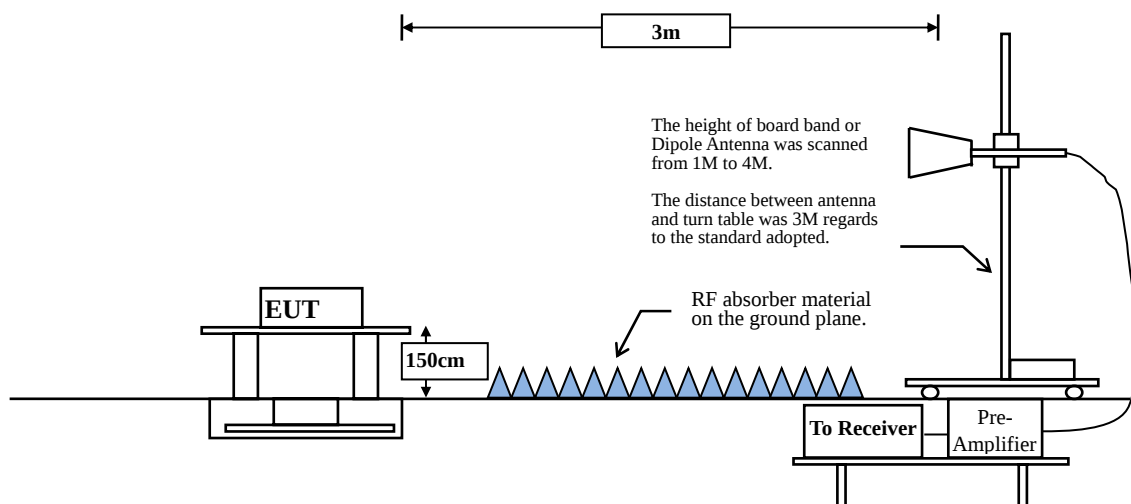
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.2. Limits

➤ General Radiated Emission Limits

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

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

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

4.3. Test Procedure

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

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

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

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

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

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

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

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

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

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 —RBW as a function of frequency

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

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

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

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

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

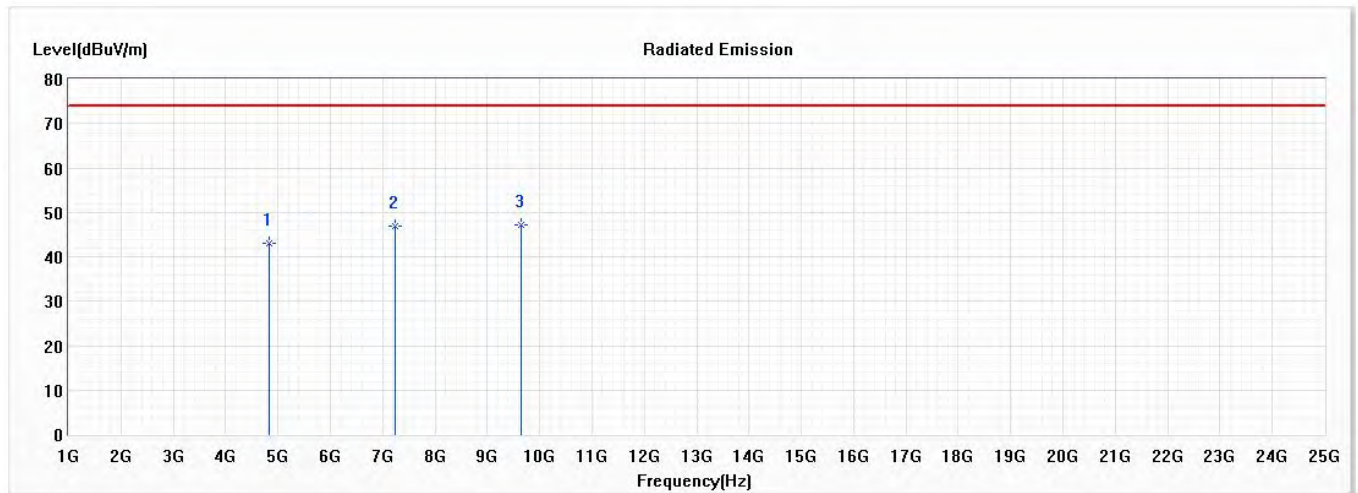
2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	98.85	8.6070	116	10
802.11g	93.27	1.4270	701	1k
802.11n20	92.97	1.3360	749	1k

Note: Duty Cycle Refer to Section 9

4.4. Test Result of Radiated Emission

Product : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/12

Horizontal



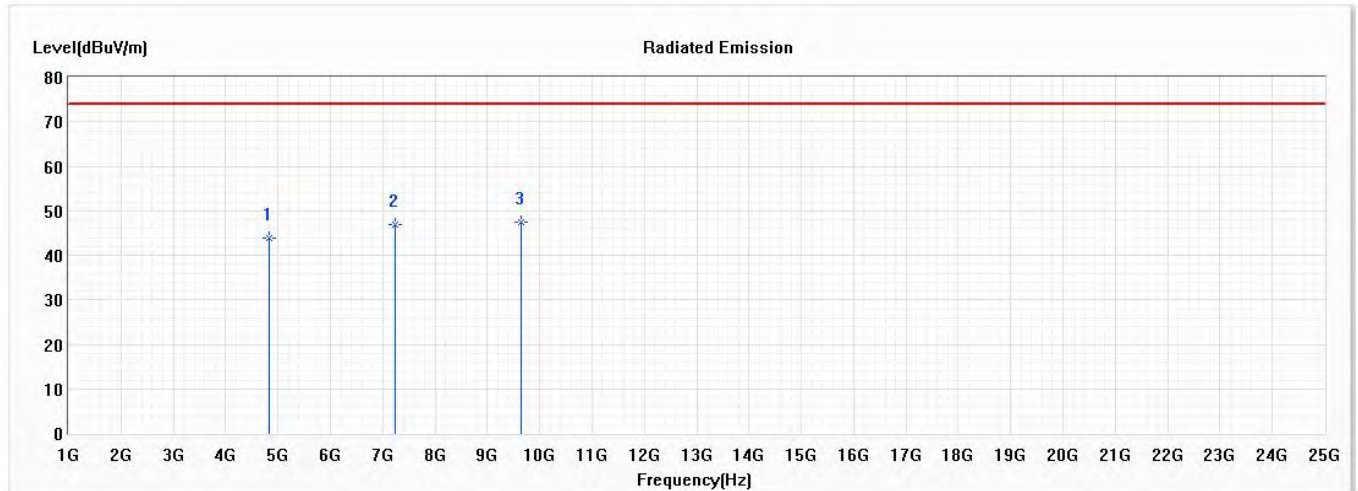
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	43.15	74.00	-30.85	53.96	-10.81	PK
2	7236.000	46.84	74.00	-27.16	52.41	-5.57	PK
* 3	9648.000	47.29	74.00	-26.71	50.51	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/12

Vertical



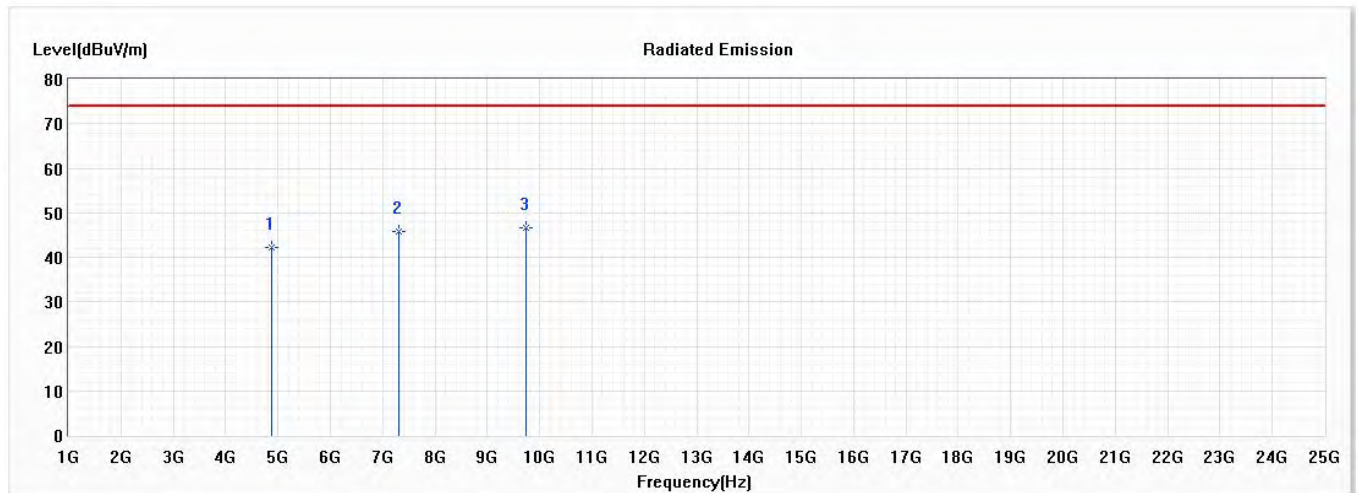
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	43.93	74.00	-30.07	54.74	-10.81	PK
2	7236.000	46.98	74.00	-27.02	52.55	-5.57	PK
* 3	9648.000	47.44	74.00	-26.56	50.66	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)
 Test Date : 2021/03/12

Horizontal



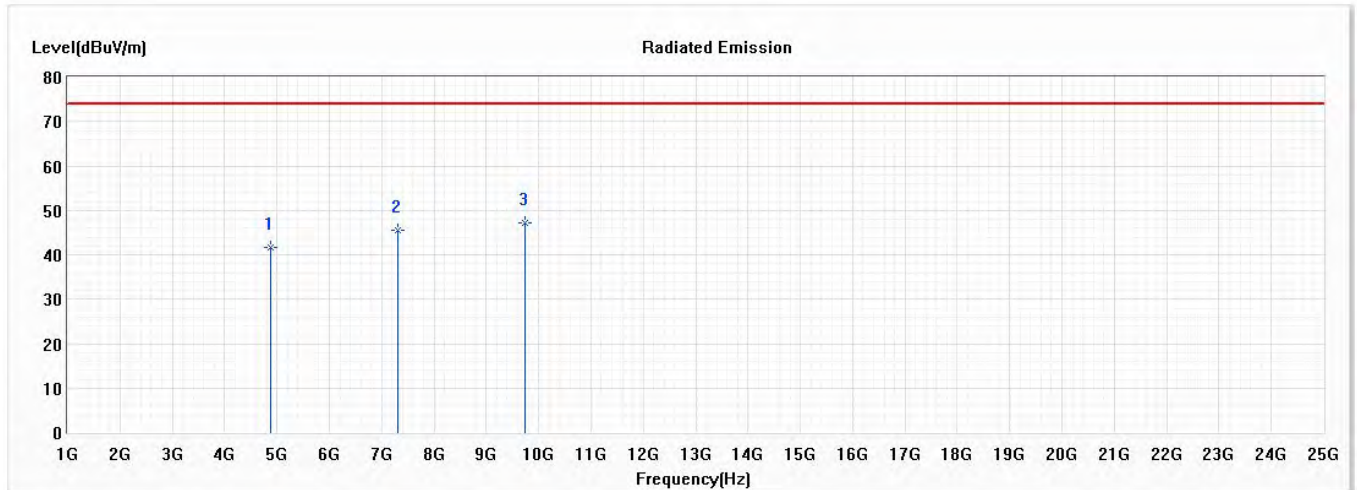
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	42.15	74.00	-31.85	52.76	-10.61	PK
2	7311.000	45.83	74.00	-28.17	51.48	-5.65	PK
* 3	9748.000	46.58	74.00	-27.42	49.43	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)
 Test Date : 2021/03/12

Vertical



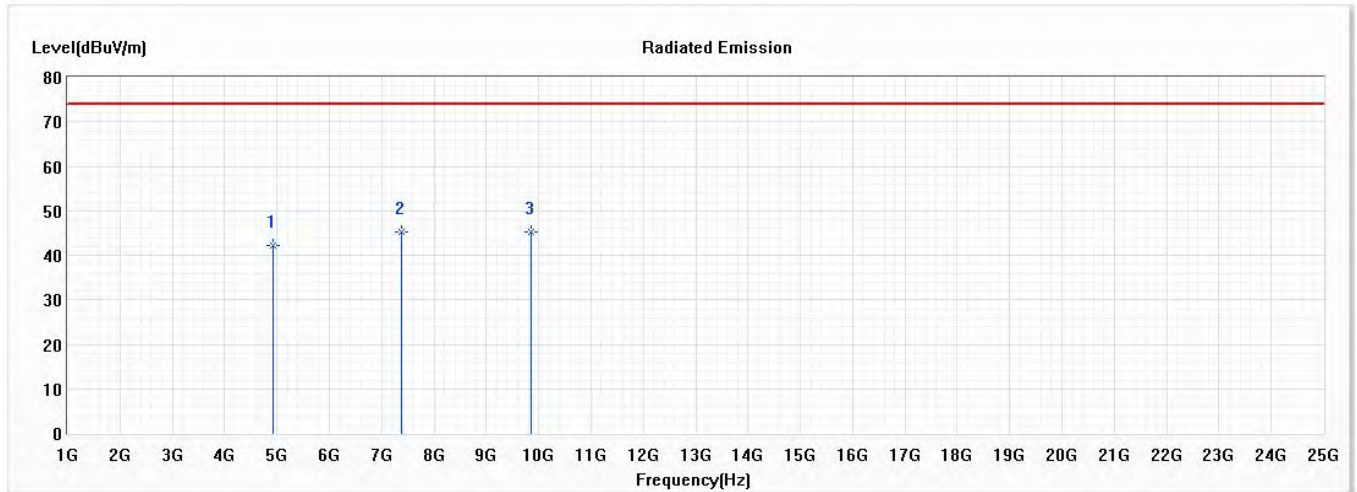
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	41.66	74.00	-32.34	52.27	-10.61	PK
2	7311.000	45.45	74.00	-28.55	51.10	-5.65	PK
* 3	9748.000	47.19	74.00	-26.81	50.04	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)
 Test Date : 2021/03/12

Horizontal



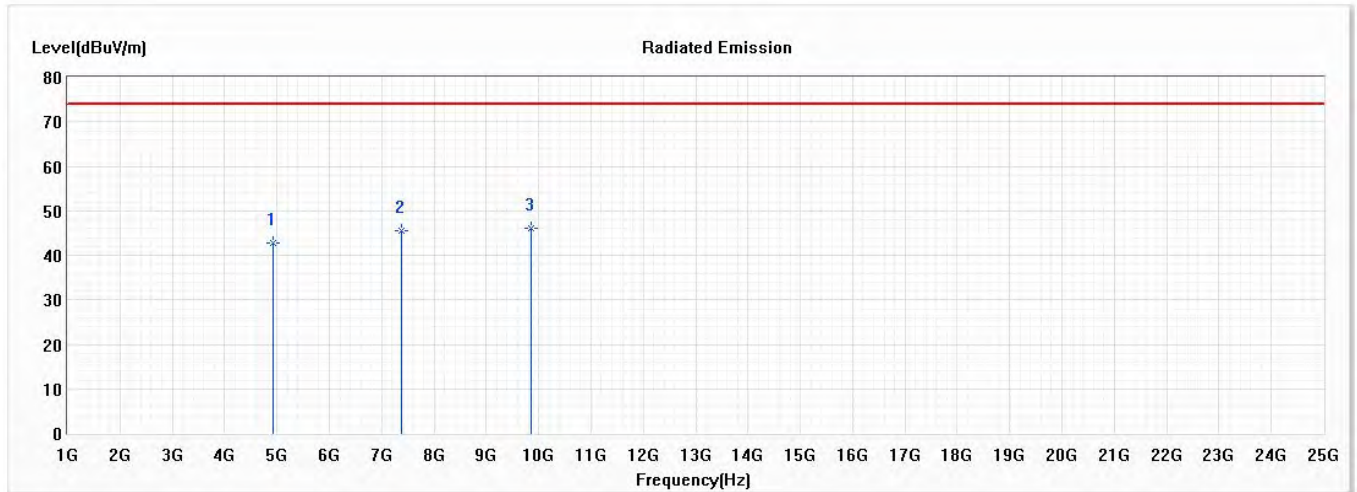
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	42.29	74.00	-31.71	52.79	-10.50	PK
2	7386.000	45.15	74.00	-28.85	50.66	-5.51	PK
* 3	9848.000	45.31	74.00	-28.69	48.05	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)
 Test Date : 2021/03/12

Vertical



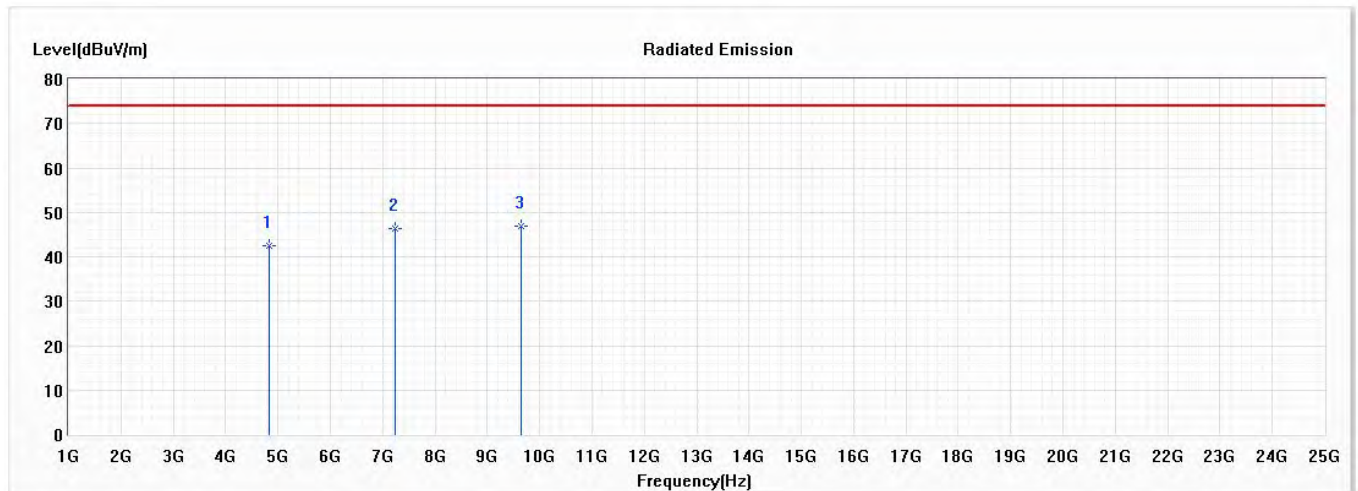
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	42.71	74.00	-31.29	53.21	-10.50	PK
2	7386.000	45.48	74.00	-28.52	50.99	-5.51	PK
* 3	9848.000	46.01	74.00	-27.99	48.75	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/12

Horizontal



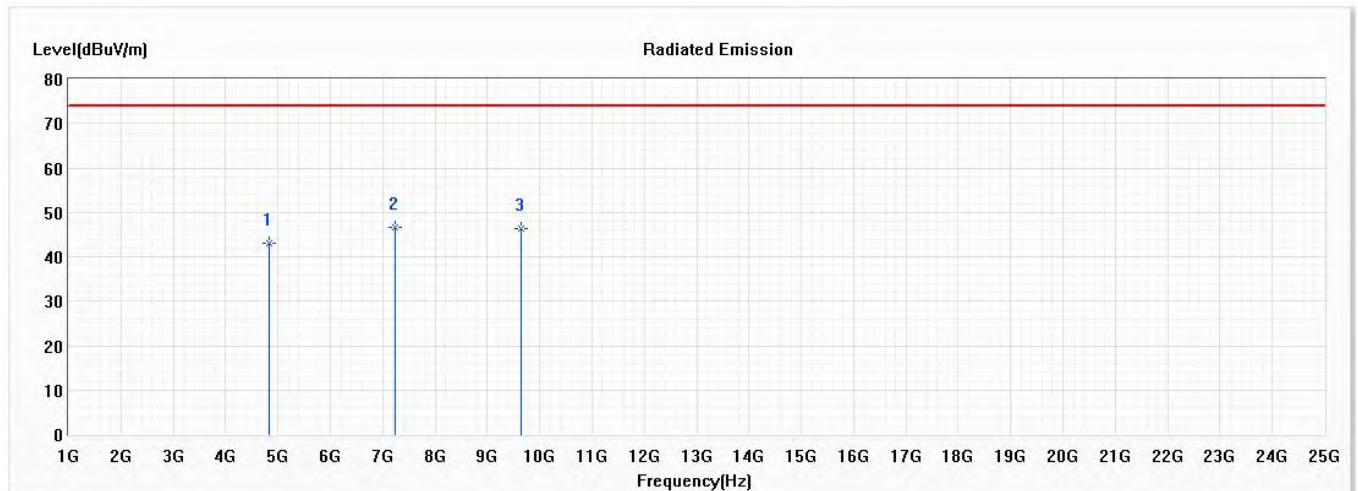
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	42.54	74.00	-31.46	53.35	-10.81	PK
2	7236.000	46.43	74.00	-27.57	52.00	-5.57	PK
* 3	9648.000	46.79	74.00	-27.21	50.01	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/12

Vertical



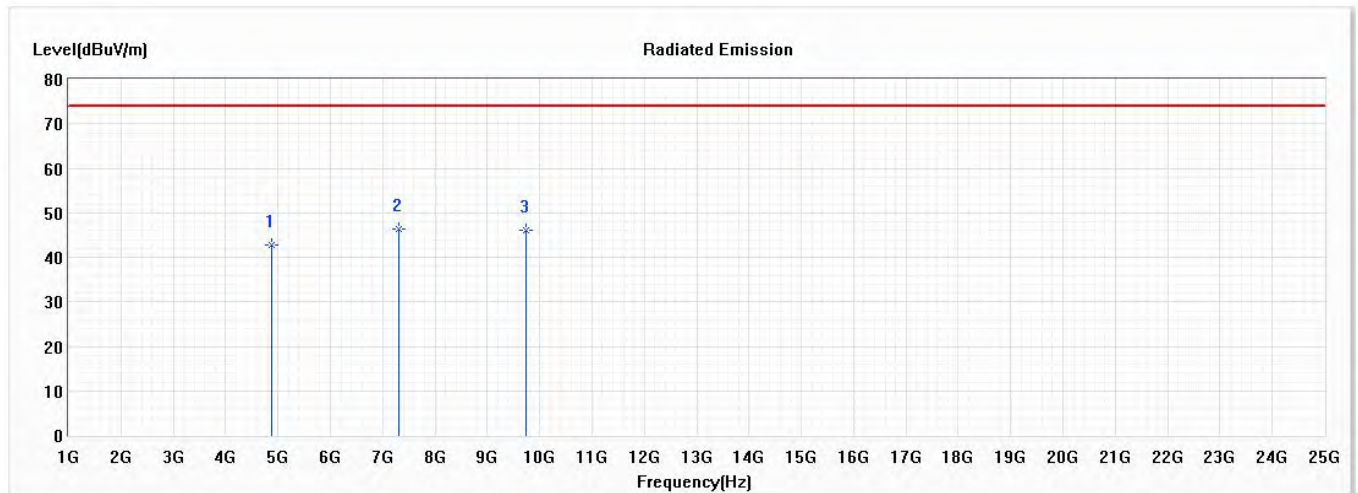
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	42.96	74.00	-31.04	53.77	-10.81	PK
* 2	7236.000	46.55	74.00	-27.45	52.12	-5.57	PK
3	9648.000	46.23	74.00	-27.77	49.45	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)
 Test Date : 2021/03/12

Horizontal



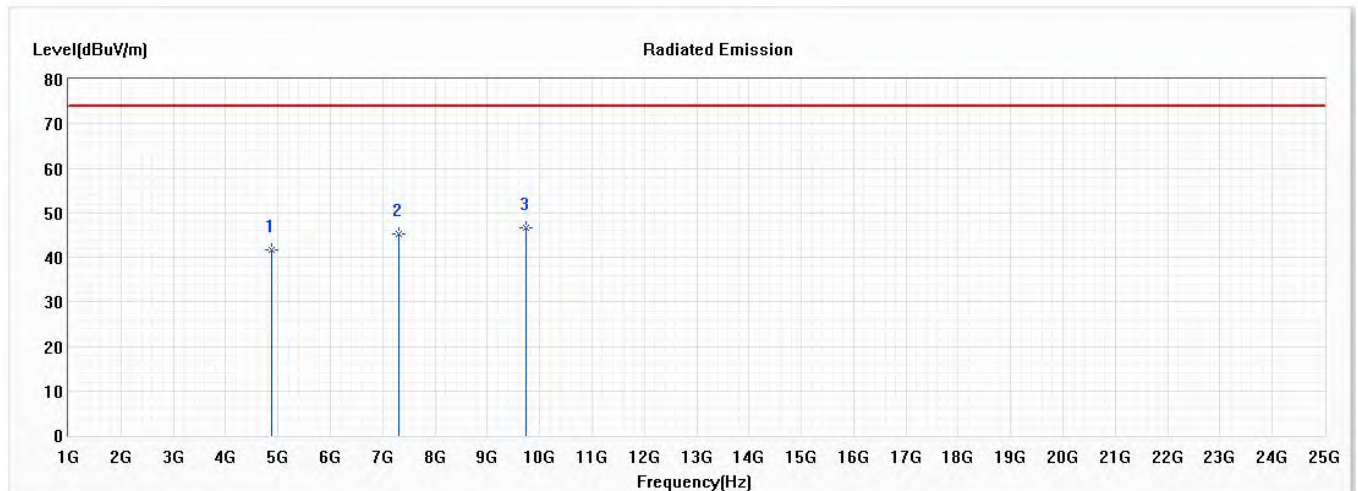
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	42.70	74.00	-31.30	53.31	-10.61	PK
* 2	7311.000	46.31	74.00	-27.69	51.96	-5.65	PK
3	9748.000	46.07	74.00	-27.93	48.92	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)
 Test Date : 2021/03/12

Vertical



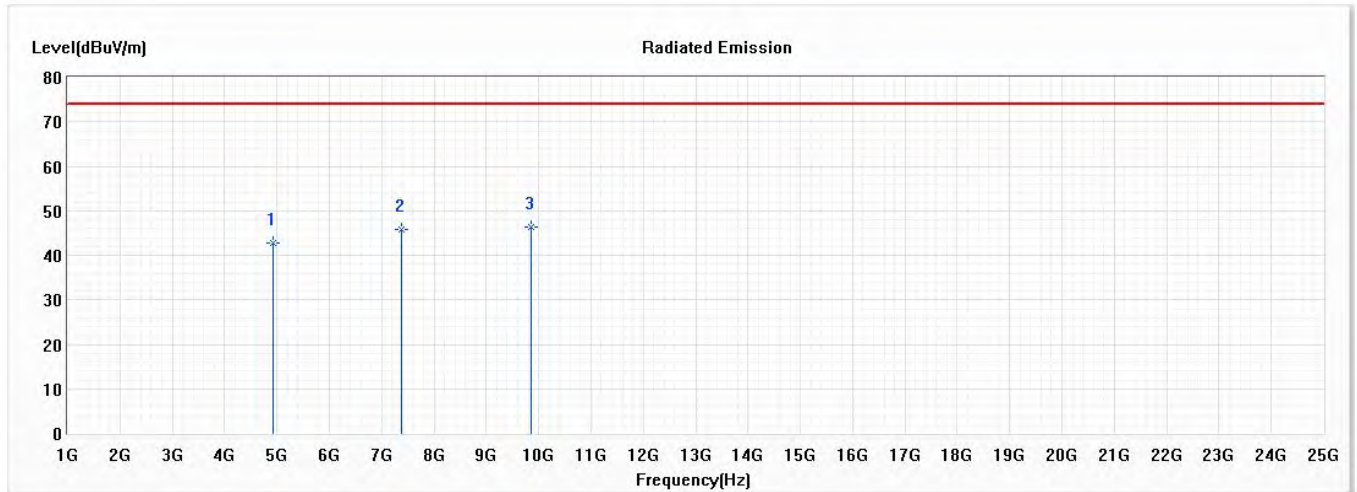
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	41.65	74.00	-32.35	52.26	-10.61	PK
2	7311.000	45.37	74.00	-28.63	51.02	-5.65	PK
* 3	9748.000	46.54	74.00	-27.46	49.39	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)
 Test Date : 2021/03/12

Horizontal



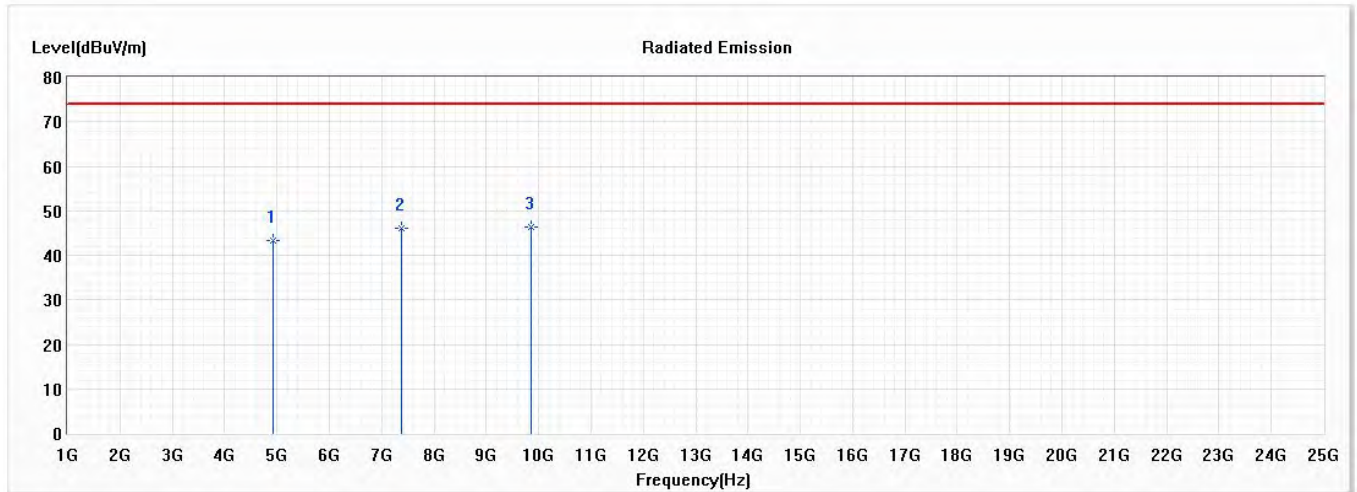
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	42.64	74.00	-31.36	53.14	-10.50	PK
2	7386.000	45.85	74.00	-28.15	51.36	-5.51	PK
* 3	9848.000	46.45	74.00	-27.55	49.19	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)
 Test Date : 2021/03/12

Vertical



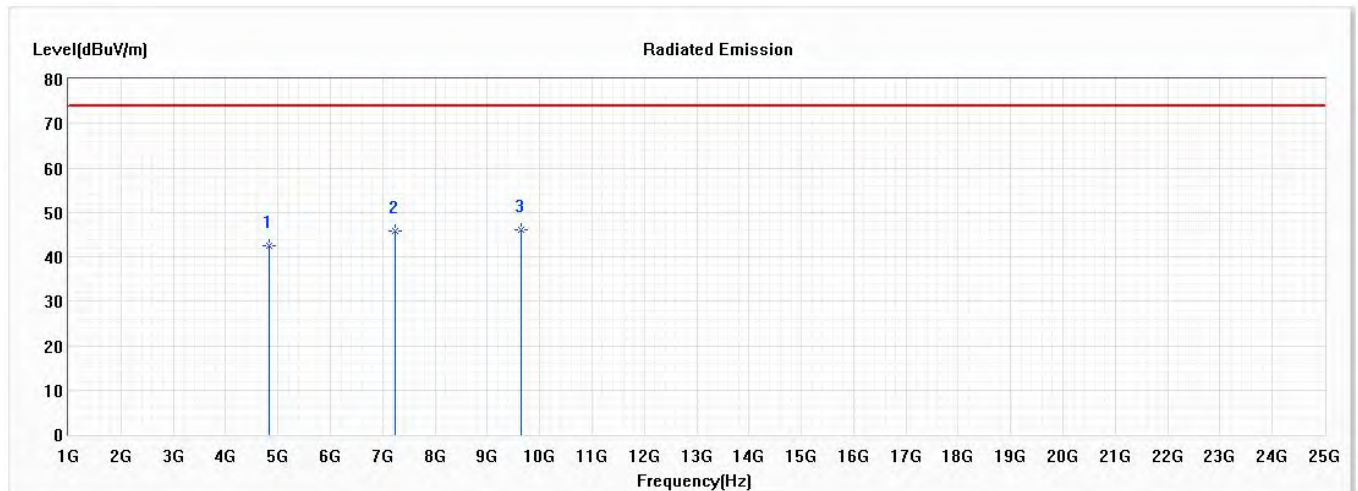
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	43.35	74.00	-30.65	53.85	-10.50	PK
2	7386.000	46.01	74.00	-27.99	51.52	-5.51	PK
* 3	9848.000	46.32	74.00	-27.68	49.06	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)(2412MHz)
 Test Date : 2021/03/12

Horizontal



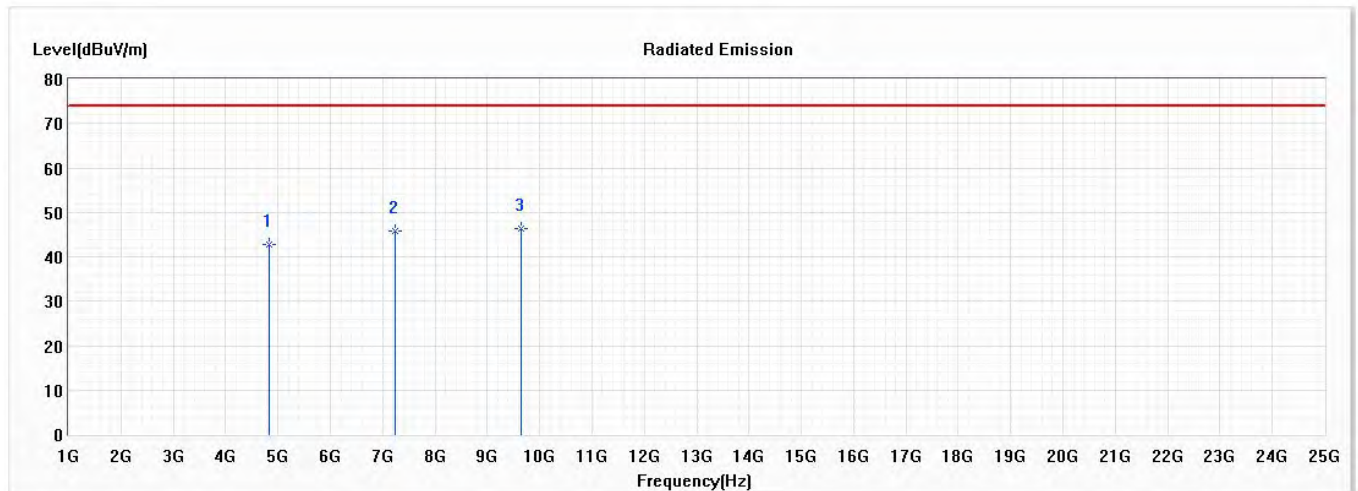
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	42.57	74.00	-31.43	53.38	-10.81	PK
2	7236.000	45.69	74.00	-28.31	51.26	-5.57	PK
* 3	9648.000	46.19	74.00	-27.81	49.41	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)(2412MHz)
 Test Date : 2021/03/12

Vertical



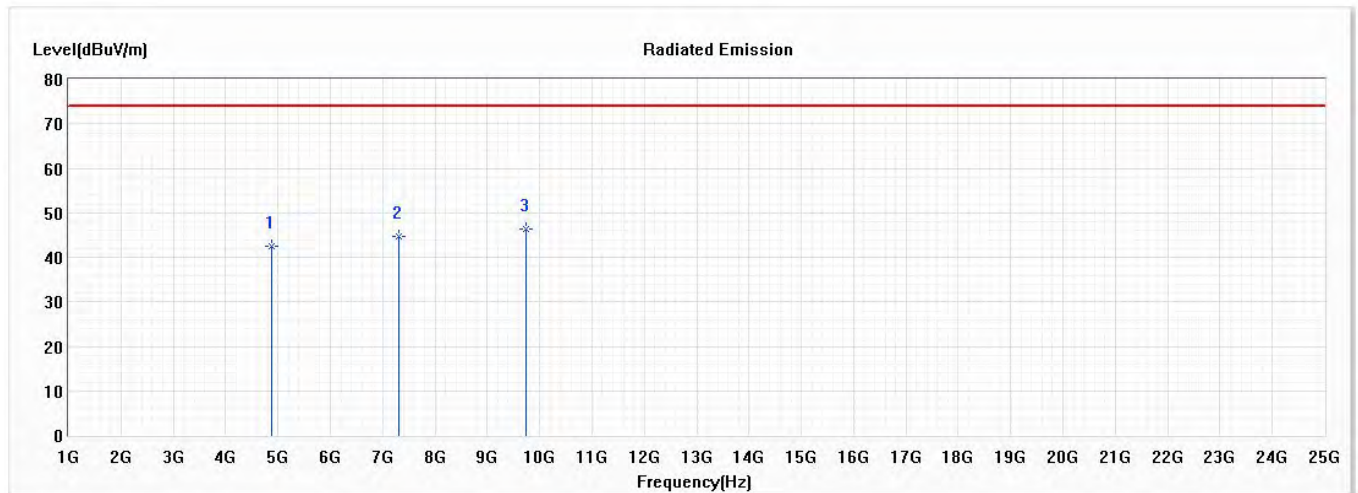
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	42.82	74.00	-31.18	53.63	-10.81	PK
2	7236.000	45.74	74.00	-28.26	51.31	-5.57	PK
* 3	9648.000	46.26	74.00	-27.74	49.48	-3.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2437 MHz)
 Test Date : 2021/03/12

Horizontal



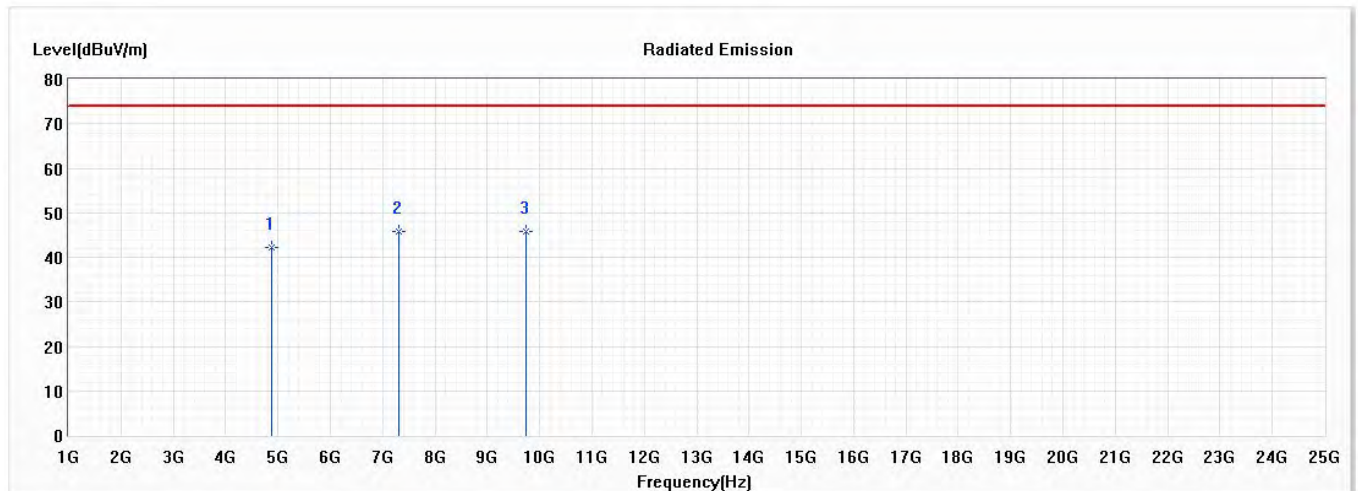
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	42.45	74.00	-31.55	53.06	-10.61	PK
2	7311.000	44.72	74.00	-29.28	50.37	-5.65	PK
* 3	9748.000	46.32	74.00	-27.68	49.17	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2437 MHz)
 Test Date : 2021/03/12

Vertical



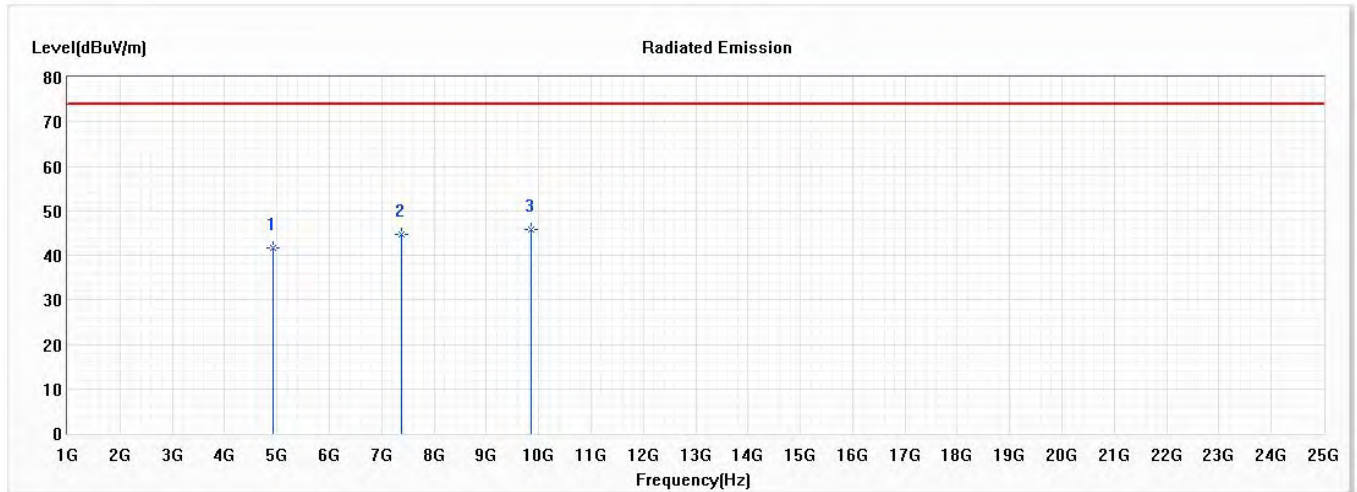
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	42.07	74.00	-31.93	52.68	-10.61	PK
* 2	7311.000	45.90	74.00	-28.10	51.55	-5.65	PK
3	9748.000	45.86	74.00	-28.14	48.71	-2.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462 MHz)
 Test Date : 2021/03/12

Horizontal



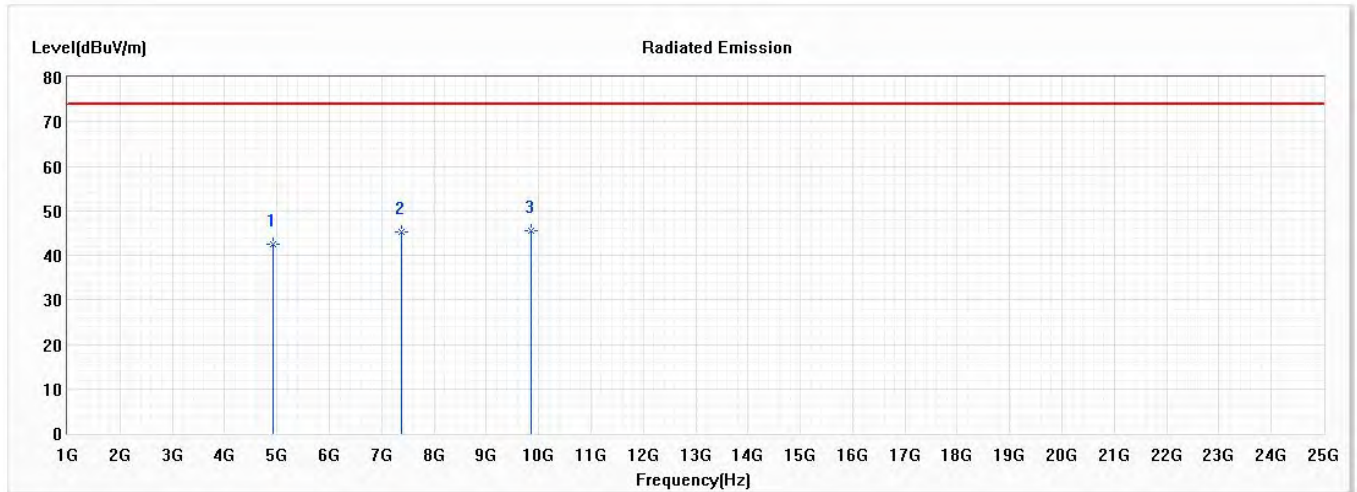
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	41.75	74.00	-32.25	52.25	-10.50	PK
2	7386.000	44.82	74.00	-29.18	50.33	-5.51	PK
* 3	9848.000	45.83	74.00	-28.17	48.57	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462 MHz)
 Test Date : 2021/03/12

Vertical



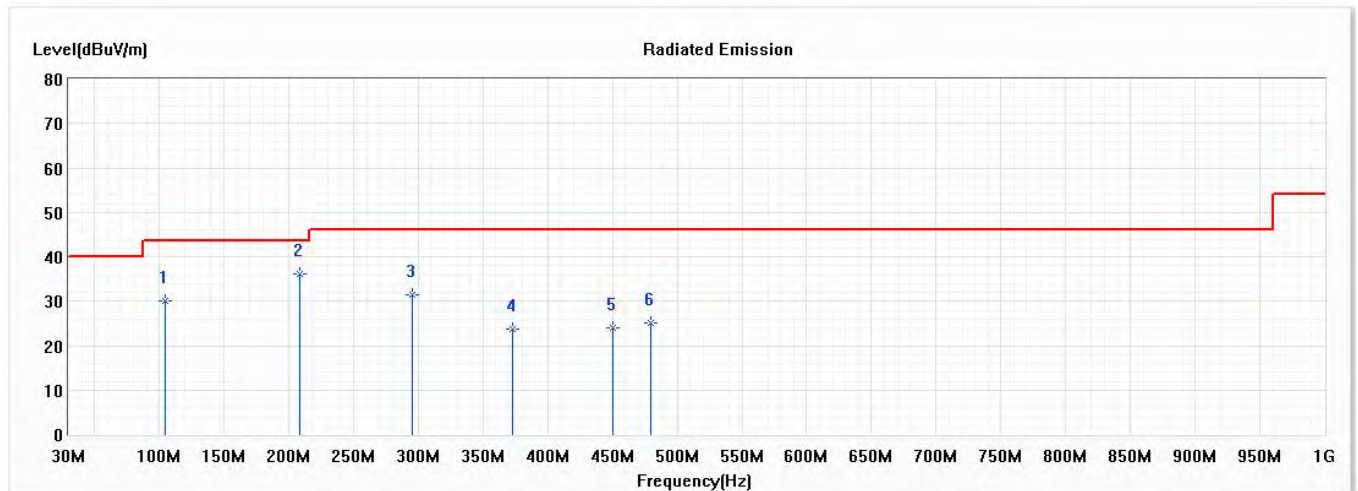
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	42.39	74.00	-31.61	52.89	-10.50	PK
2	7386.000	45.11	74.00	-28.89	50.62	-5.51	PK
* 3	9848.000	45.58	74.00	-28.42	48.32	-2.74	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : General Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)(2437 MHz)
 Test Date : 2021/03/09

Horizontal



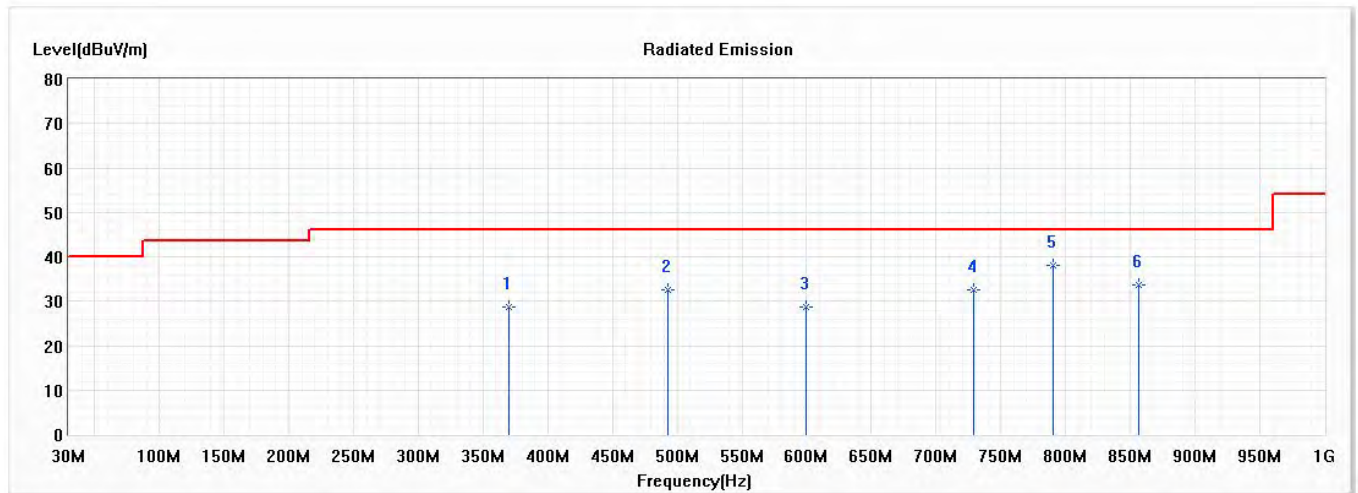
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	104.507	30.06	43.50	-13.44	52.86	-22.80	QP
* 2	208.536	36.03	43.50	-7.47	57.31	-21.28	QP
3	295.696	31.55	46.00	-14.45	49.71	-18.16	QP
4	373.014	23.72	46.00	-22.28	39.82	-16.10	QP
5	450.333	23.99	46.00	-22.01	38.17	-14.18	QP
6	479.855	25.09	46.00	-20.91	38.70	-13.61	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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 : EDB10
 Test Item : General Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)(2437 MHz)
 Test Date : 2021/03/09

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	370.203	28.57	46.00	-17.43	44.79	-16.22	QP
2	492.507	32.59	46.00	-13.41	46.11	-13.52	QP
3	599.348	28.75	46.00	-17.25	39.70	-10.95	QP
4	728.681	32.42	46.00	-13.58	38.70	-6.28	QP
* 5	790.536	38.09	46.00	-7.91	37.35	0.74	QP
6	856.609	33.71	46.00	-12.29	36.87	-3.16	QP

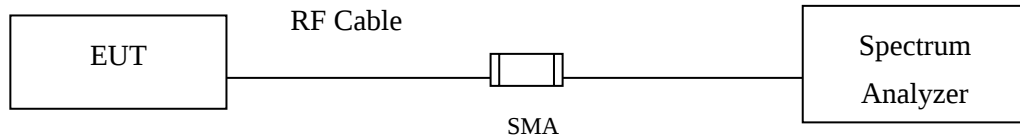
Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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

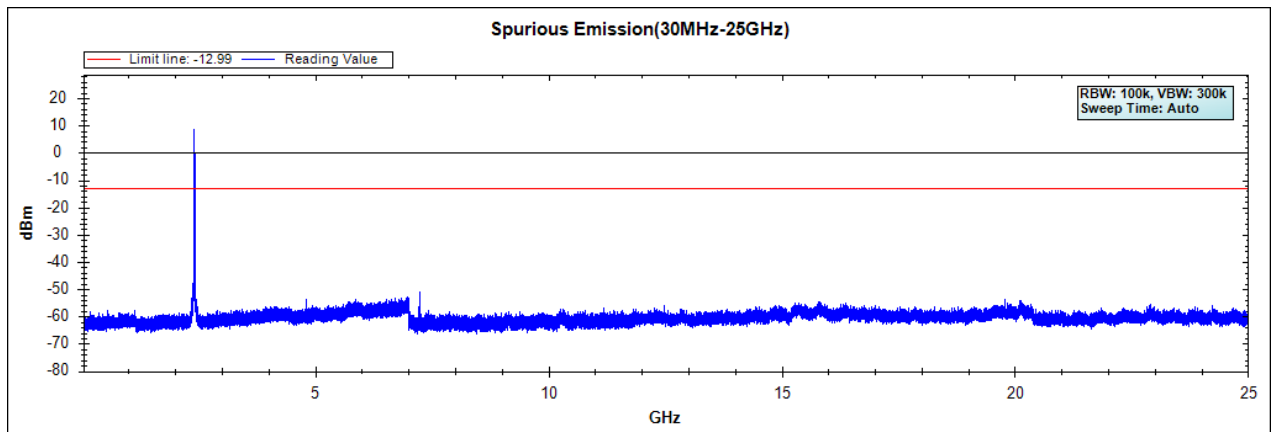
The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

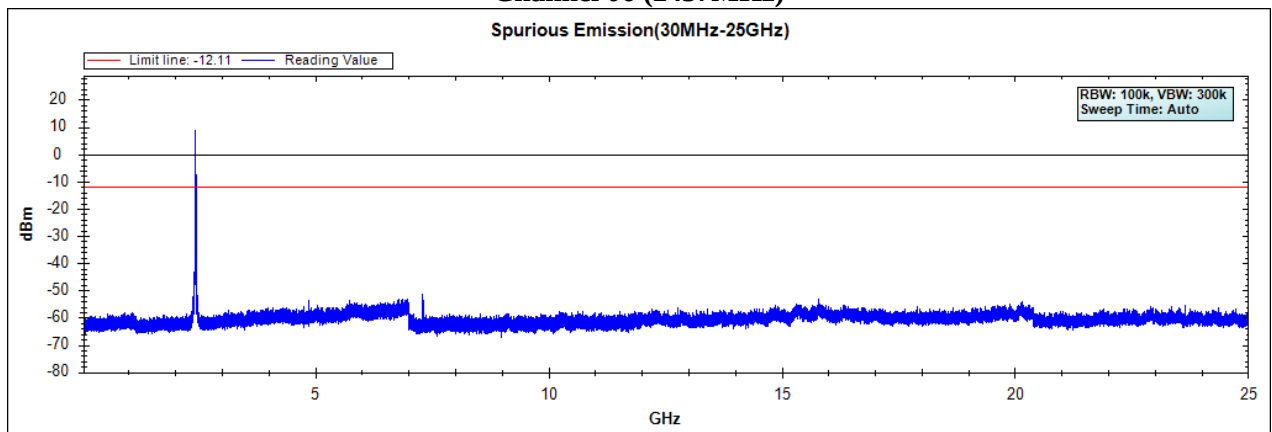
5.4. Test Result of RF antenna conducted test

Product : EDB10
Test Item : RF antenna conducted test
Test Mode : Mode 1: Transmit (802.11b 1Mbps)
Test Date : 2021/03/20

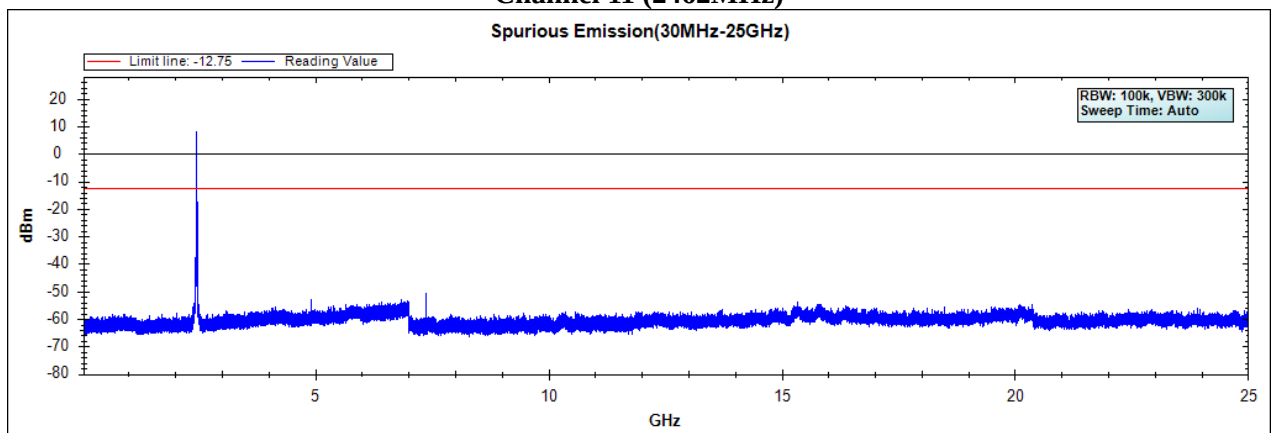
Channel 01 (2412MHz)



Channel 06 (2437MHz)



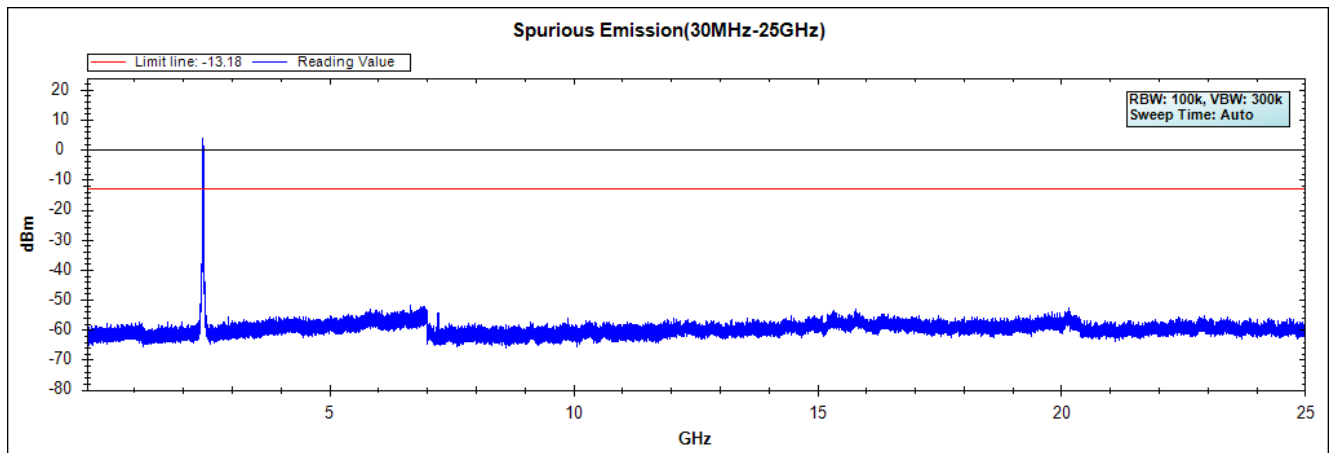
Channel 11 (2462MHz)



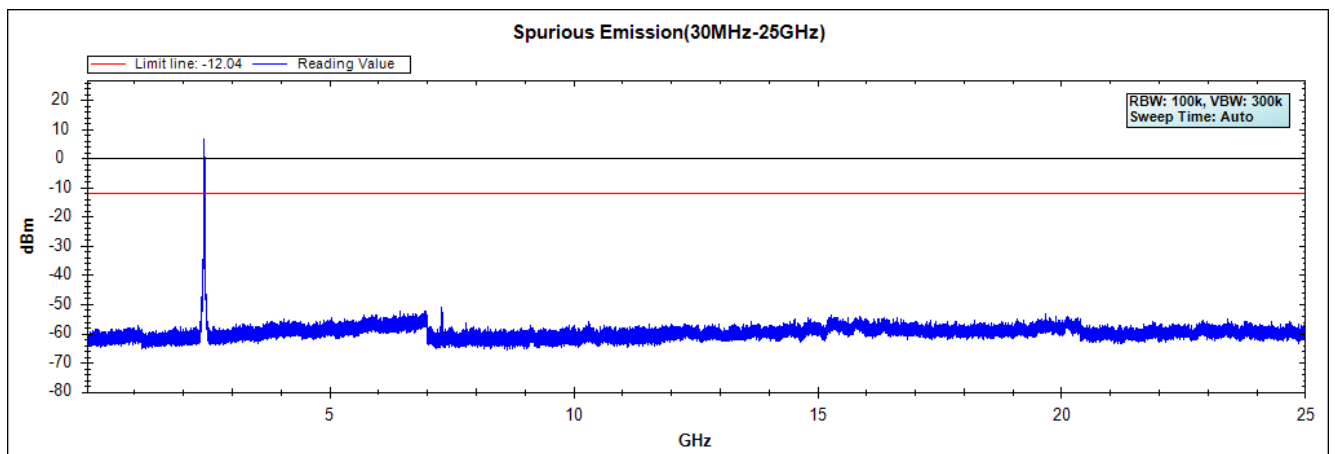
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : EDB10
Test Item : RF Antenna Conducted Spurious
Test Mode : Mode 2: Transmit (802.11g 6Mbps)
Test Date : 2021/03/23

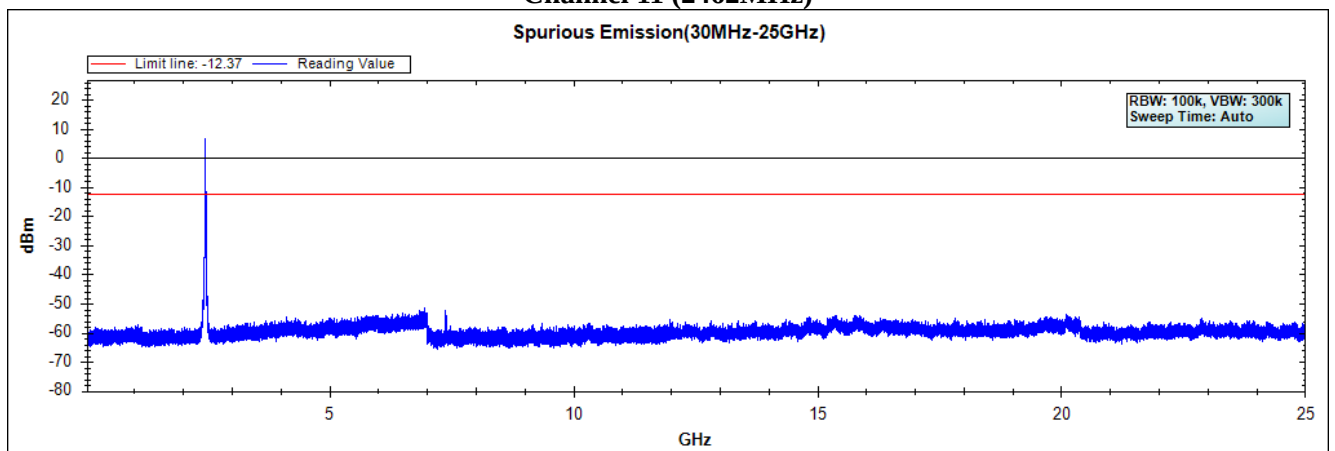
Channel 01 (2412MHz)



Channel 06 (2437MHz)



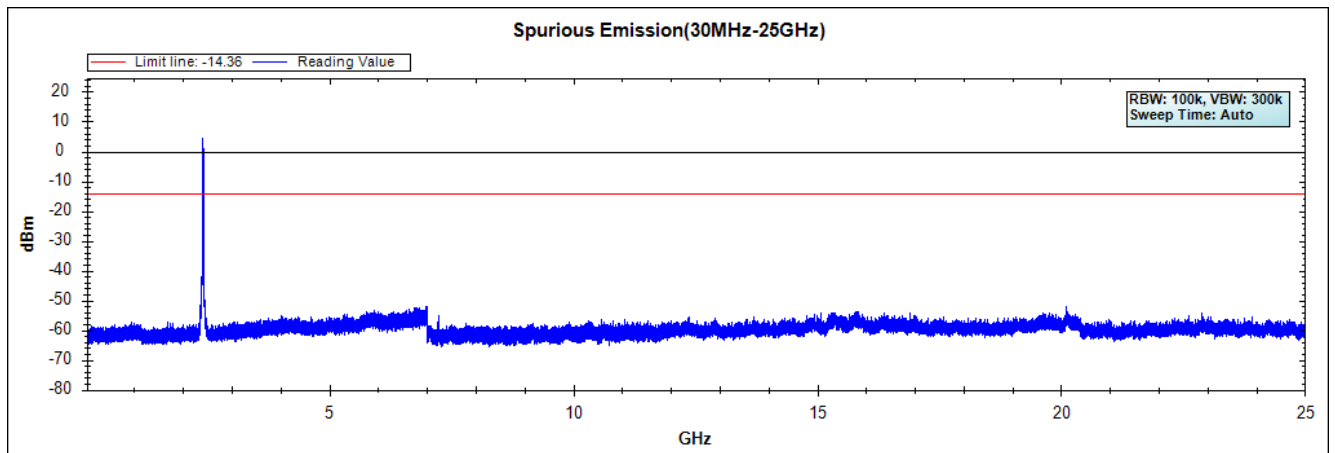
Channel 11 (2462MHz)



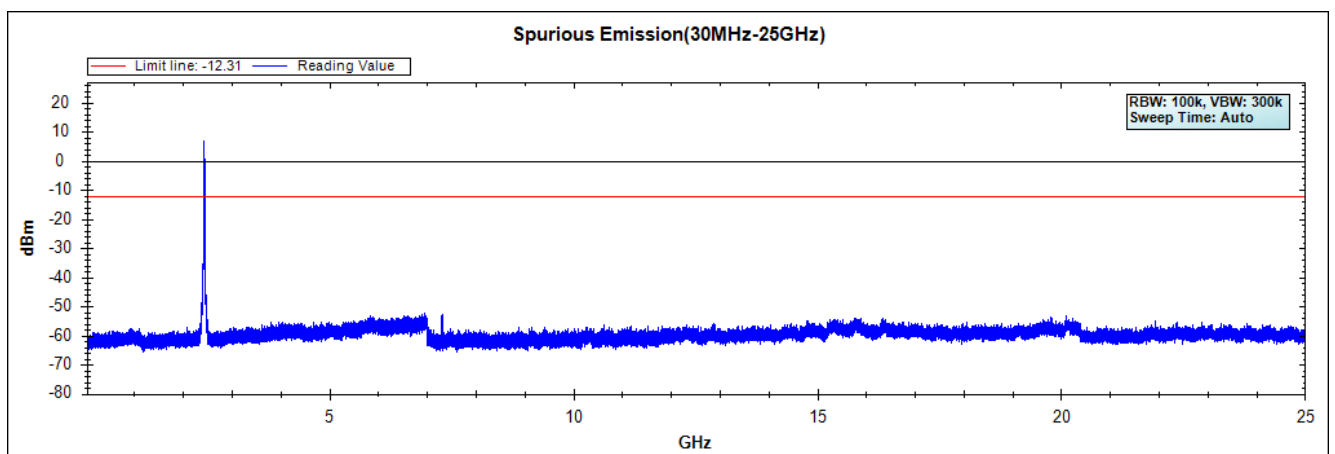
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : EDB10
Test Item : RF Antenna Conducted Spurious
Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)
Test Date : 2021/03/23

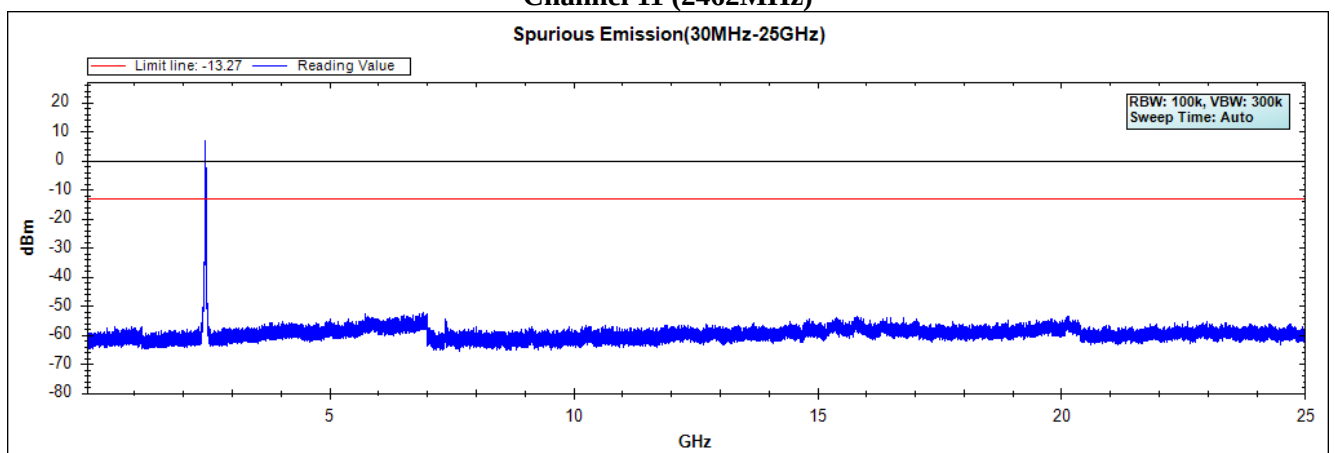
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

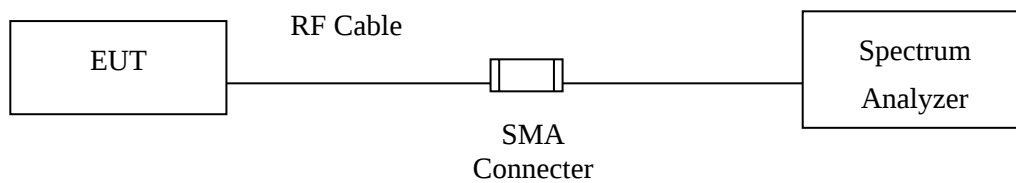


Note: The above test pattern is synthesized by multiple of the frequency range.

6. Band Edge

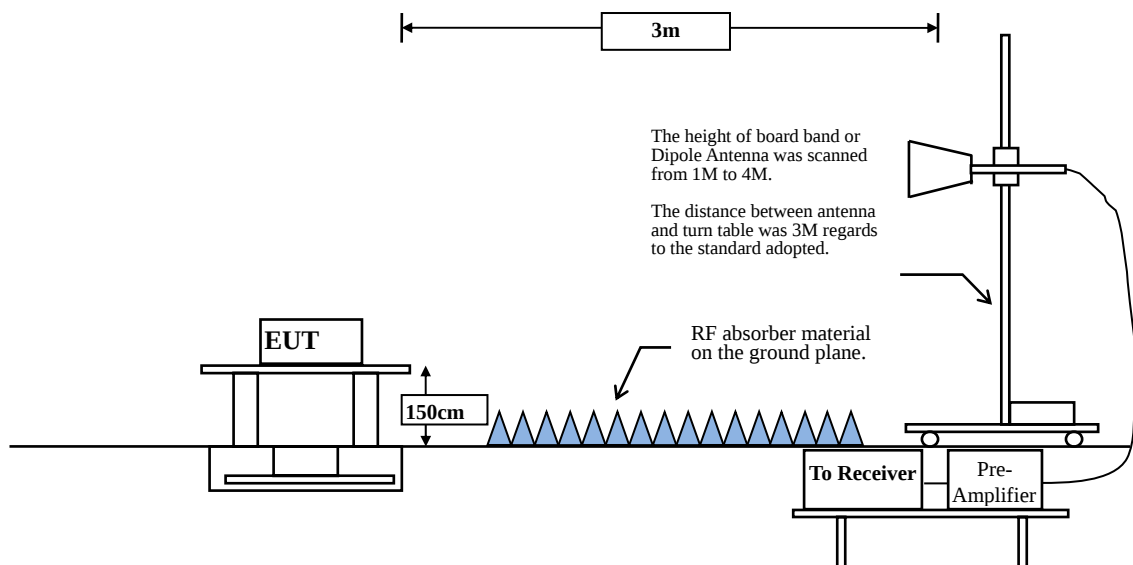
6.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement:

Above 1GHz



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.

$VBW \geq 3 \times RBW$.

Table 1 —RBW as a function of frequency

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

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

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

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

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

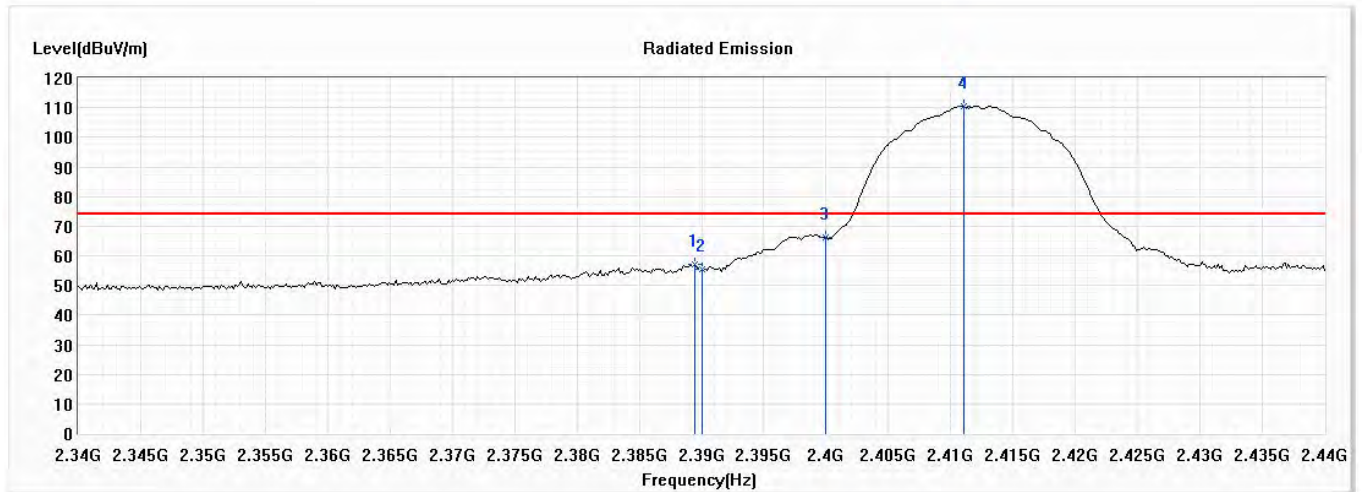
2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	98.85	8.6070	116	10
802.11g	93.27	1.4270	701	1k
802.11n20	92.97	1.3360	749	1k

Note: Duty Cycle Refer to Section 9

6.4. Test Result of Band Edge

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



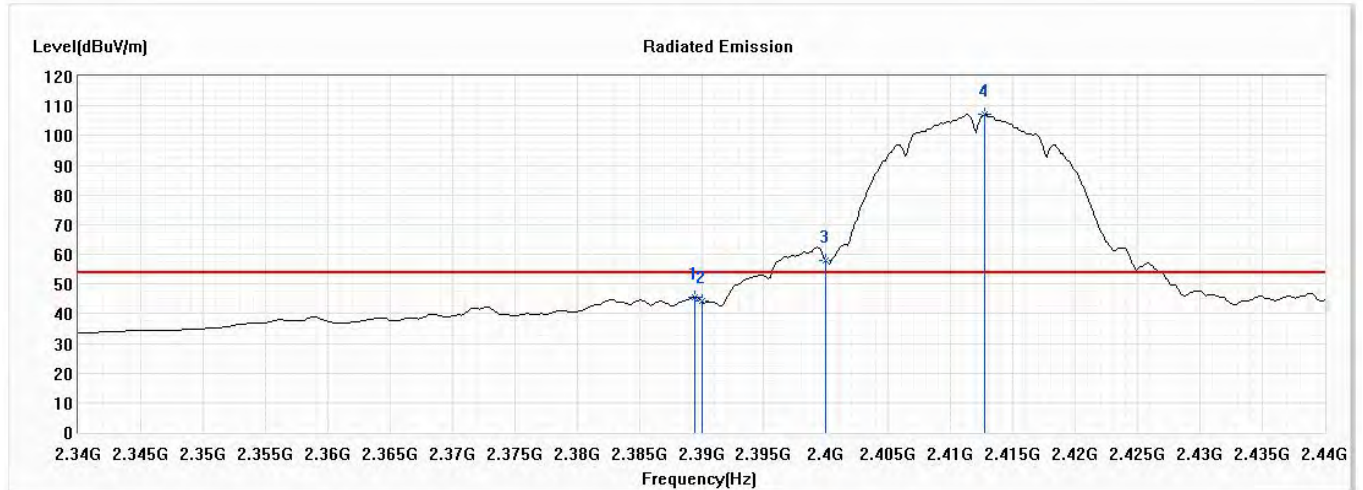
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.420	57.02	74.00	-16.98	43.86	13.16	PK
2	2390.000	55.44	74.00	-18.56	42.29	13.15	PK
3	2400.000	66.03	--	--	52.91	13.12	PK
4	2411.014	110.46	--	--	97.25	13.21	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



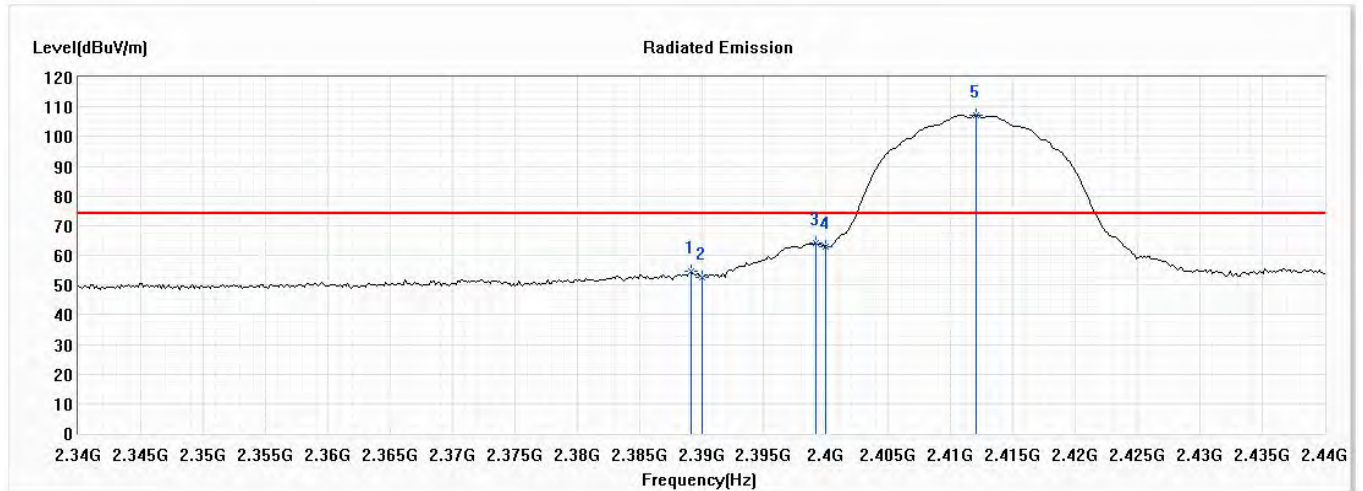
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.420	45.69	54.00	-8.31	32.53	13.16	AV
2	2390.000	44.21	54.00	-9.79	31.06	13.15	AV
3	2400.000	57.81	--	--	44.69	13.12	AV
4	2412.754	107.13	--	--	93.90	13.23	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



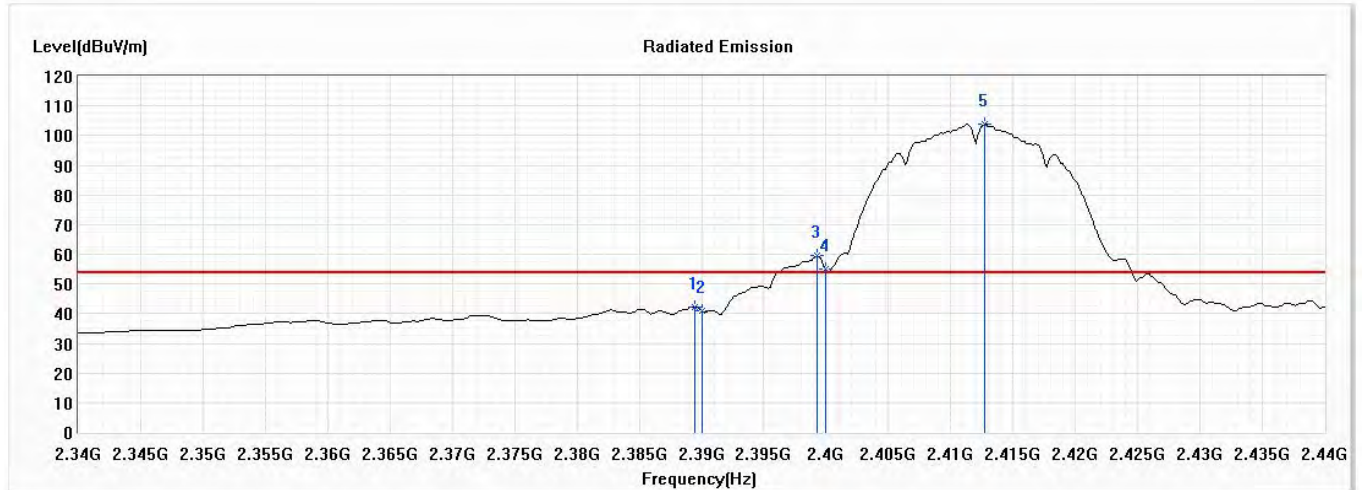
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.130	54.67	74.00	-19.33	41.51	13.16	PK
2	2390.000	52.65	74.00	-21.35	39.50	13.15	PK
3	2399.130	64.34	--	--	51.22	13.12	PK
4	2400.000	63.10	--	--	49.98	13.12	PK
5	2412.029	107.13	--	--	93.90	13.23	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



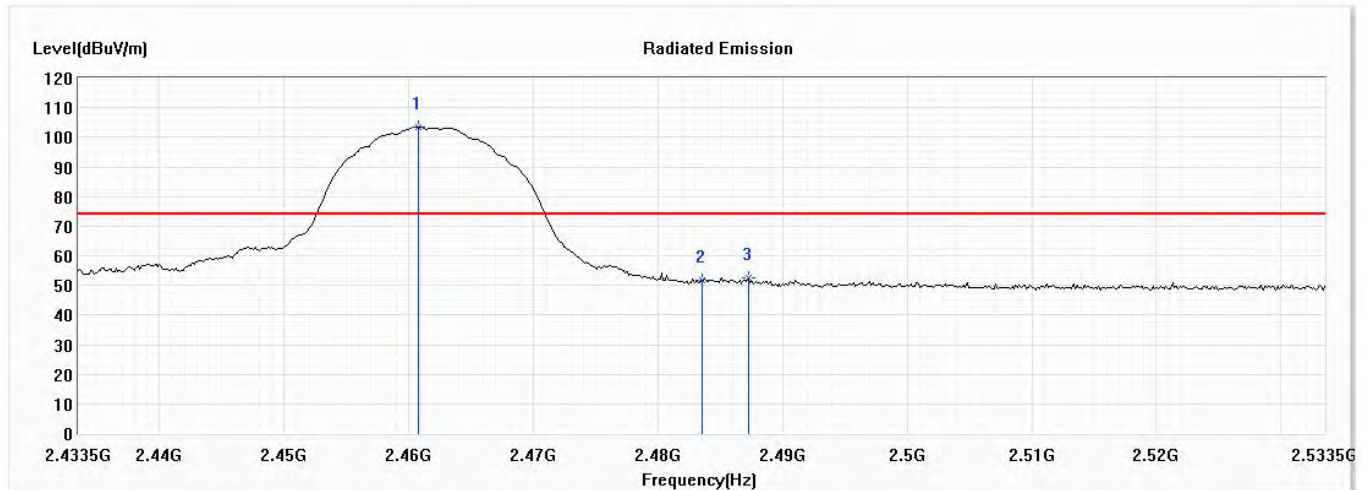
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.420	42.38	54.00	-11.62	29.22	13.16	AV
2	2390.000	40.91	54.00	-13.09	27.76	13.15	AV
3	2399.275	59.45	--	--	46.33	13.12	AV
4	2400.000	55.07	--	--	41.95	13.12	AV
5	2412.754	103.80	--	--	90.57	13.23	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



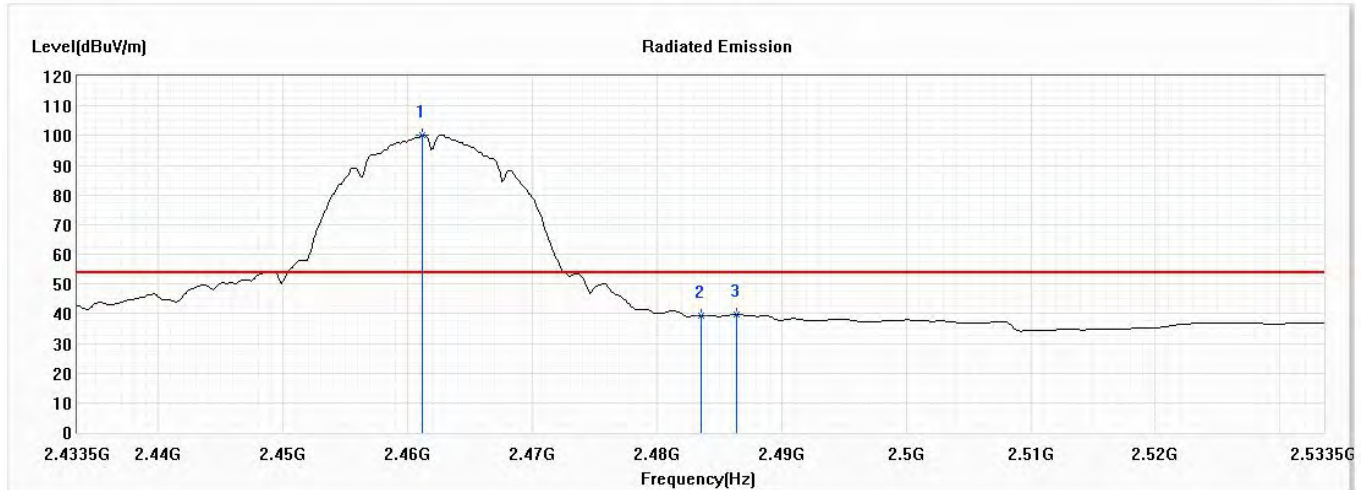
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2460.746	103.52	--	--	90.01	13.51	PK
2	2483.500	51.57	74.00	-22.43	38.17	13.40	PK
3	2487.268	52.42	74.00	-21.58	39.04	13.38	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



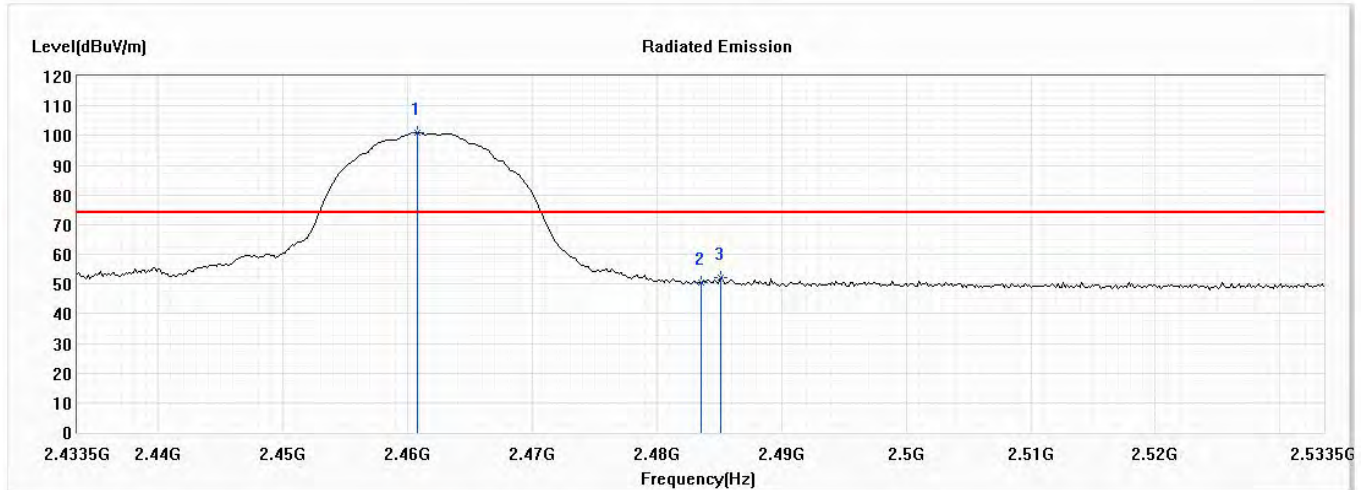
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2461.181	100.33	--	--	86.83	13.50	AV
2	2483.500	39.15	54.00	-14.85	25.75	13.40	AV
3	2486.399	39.71	54.00	-14.29	26.33	13.38	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



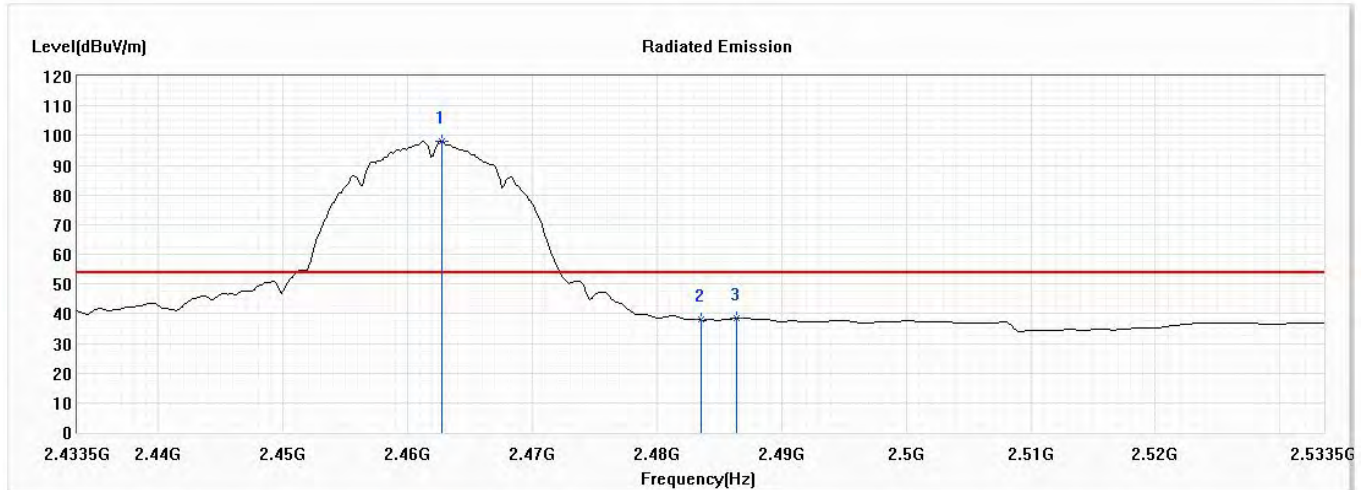
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2460.746	101.02	--	--	87.51	13.51	PK
2	2483.500	50.64	74.00	-23.36	37.24	13.40	PK
3	2485.094	52.25	74.00	-21.75	38.86	13.39	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



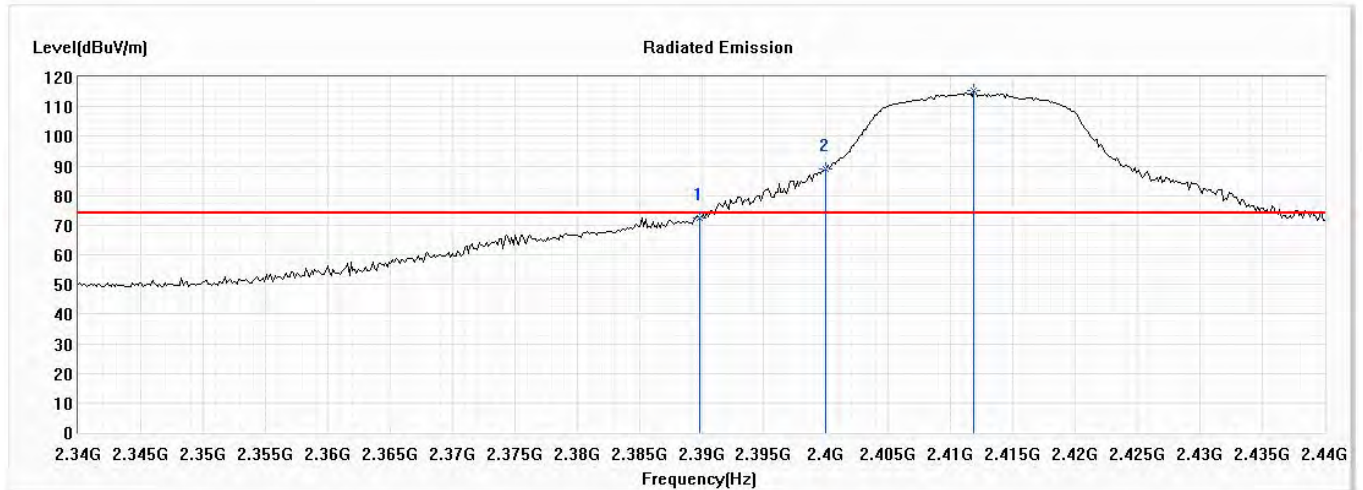
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2462.775	97.93	--	--	84.43	13.50	AV
2	2483.500	37.89	54.00	-16.11	24.49	13.40	AV
3	2486.399	38.39	54.00	-15.61	25.01	13.38	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



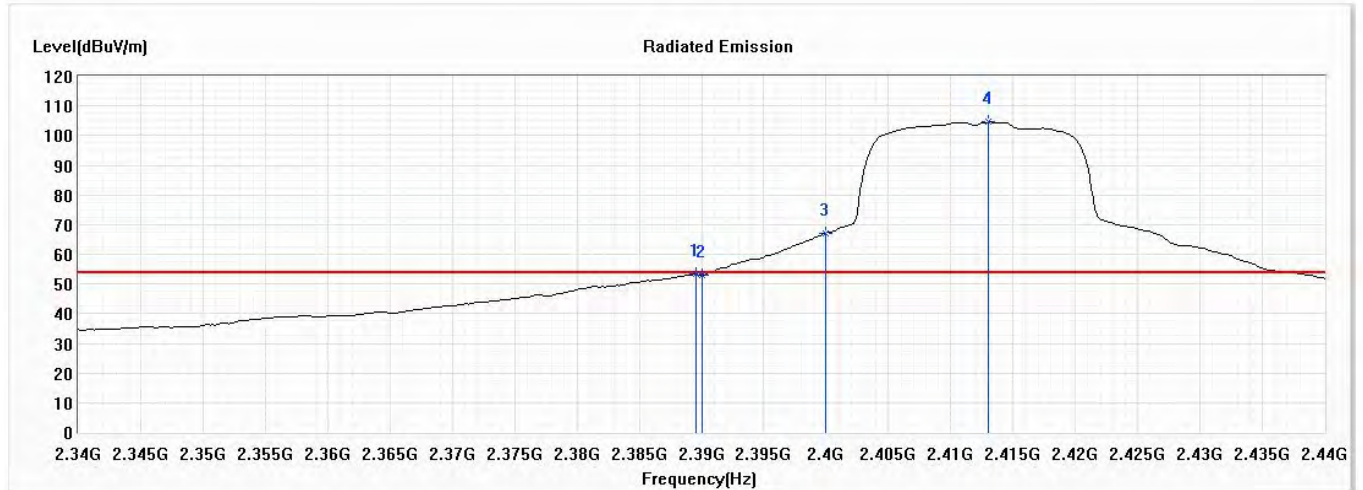
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.855	72.61	74.00	-1.39	59.45	13.16	PK
2	2400.000	88.86	--	--	75.74	13.12	PK
3	2411.884	115.62	--	--	102.39	13.23	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



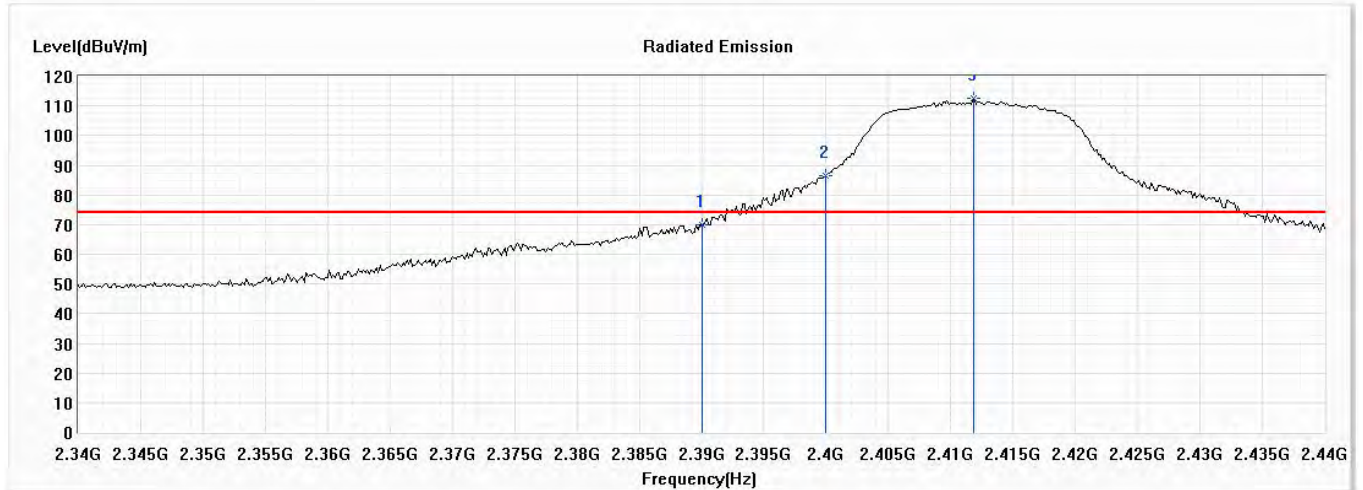
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.565	53.20	54.00	-0.80	40.04	13.16	AV
2	2390.000	52.87	54.00	-1.13	39.72	13.15	AV
3	2400.000	67.13	--	--	54.01	13.12	AV
4	2413.043	104.58	--	--	91.35	13.23	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



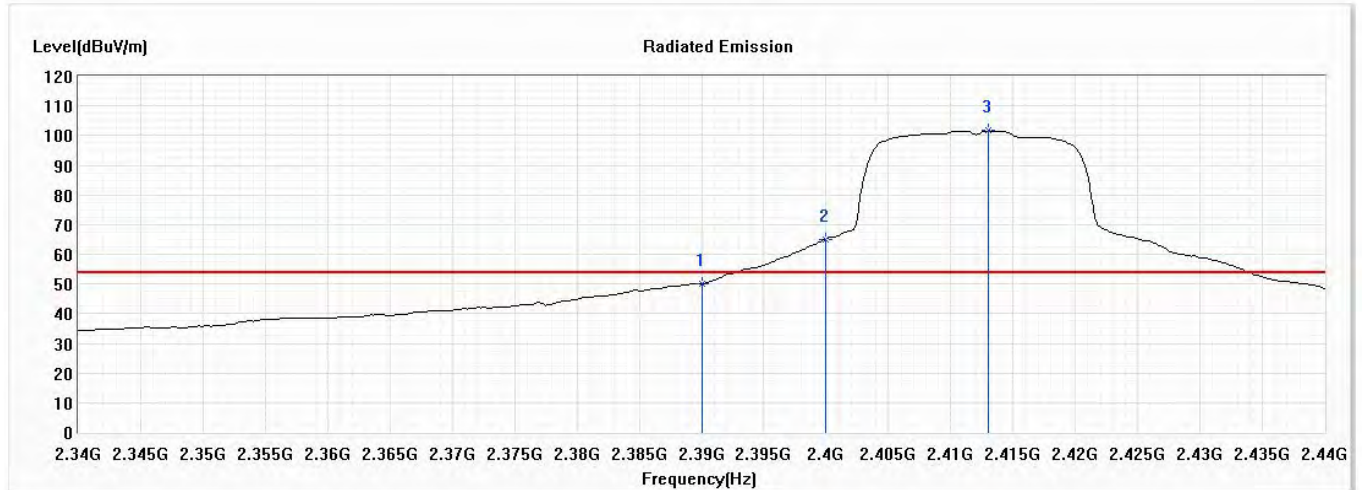
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	70.05	74.00	-3.95	56.90	13.15	PK
2	2400.000	86.64	--	--	73.52	13.12	PK
3	2411.884	112.55	--	--	99.32	13.23	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



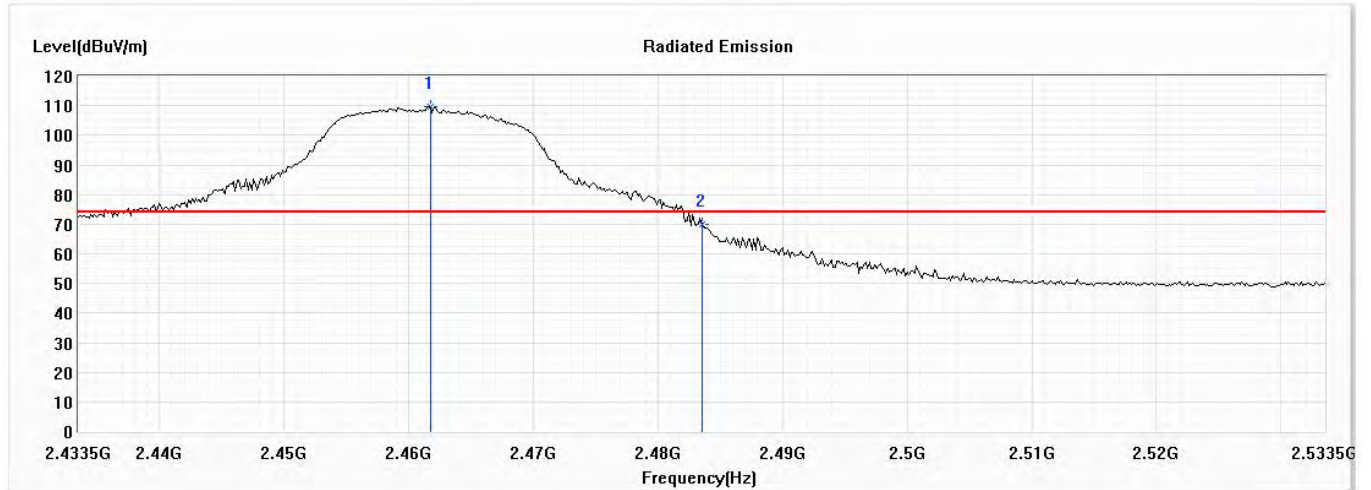
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	50.05	54.00	-3.95	36.90	13.15	AV
2	2400.000	64.97	--	--	51.85	13.12	AV
3	2413.043	101.60	--	--	88.37	13.23	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



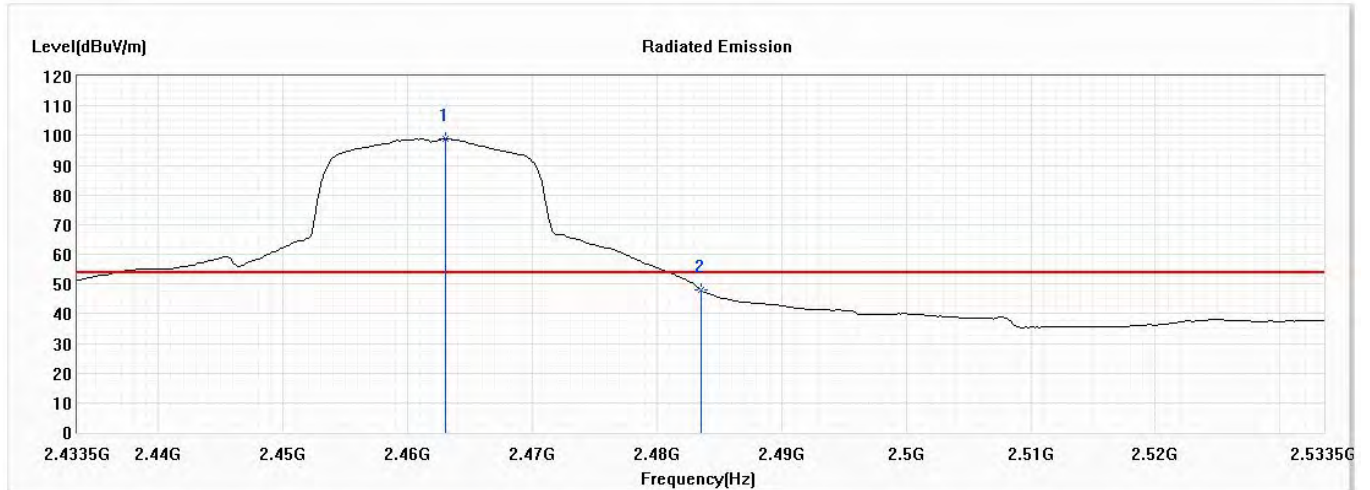
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2461.761	109.77	--	--	96.27	13.50	PK
2	2483.500	70.01	74.00	-3.99	56.61	13.40	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



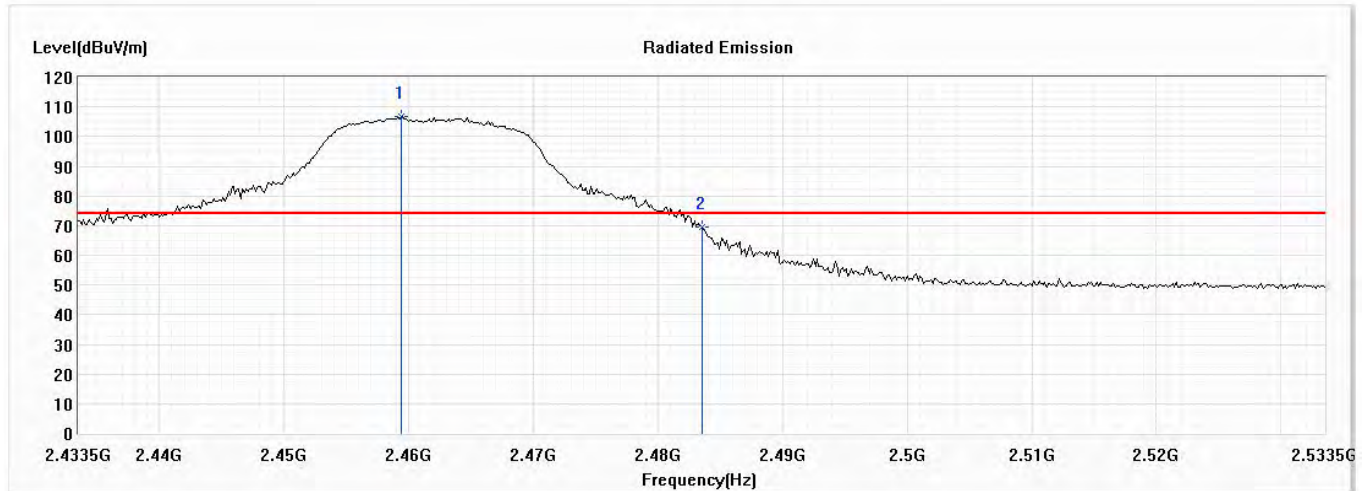
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2463.065	99.06	--	--	85.56	13.50	AV
2	2483.500	47.95	54.00	-6.05	34.55	13.40	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



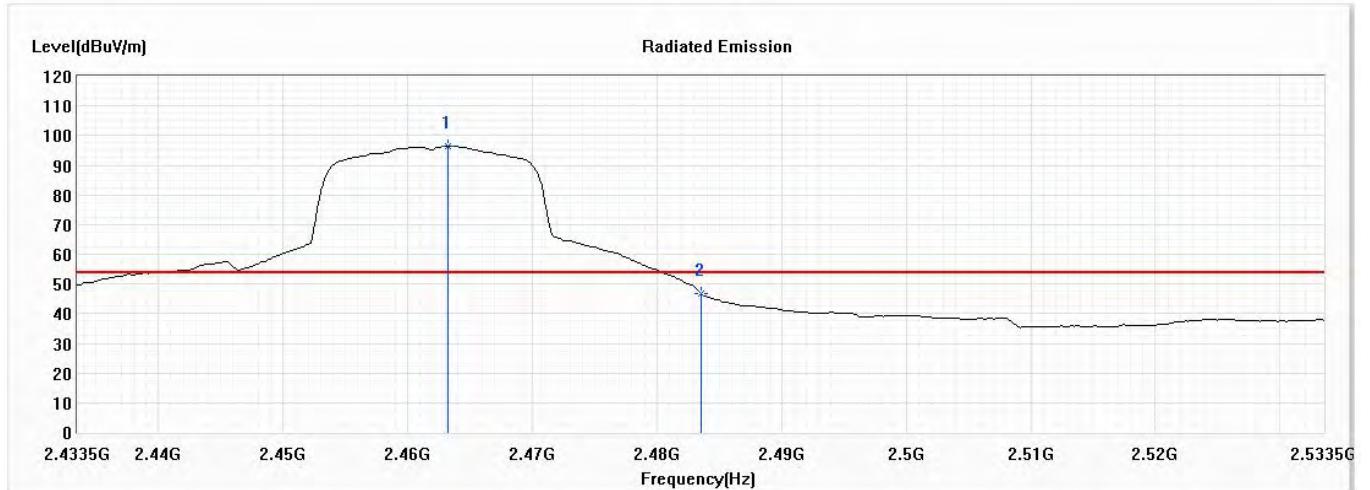
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2459.442	106.58	--	--	93.07	13.51	PK
2	2483.500	69.68	74.00	-4.32	56.28	13.40	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



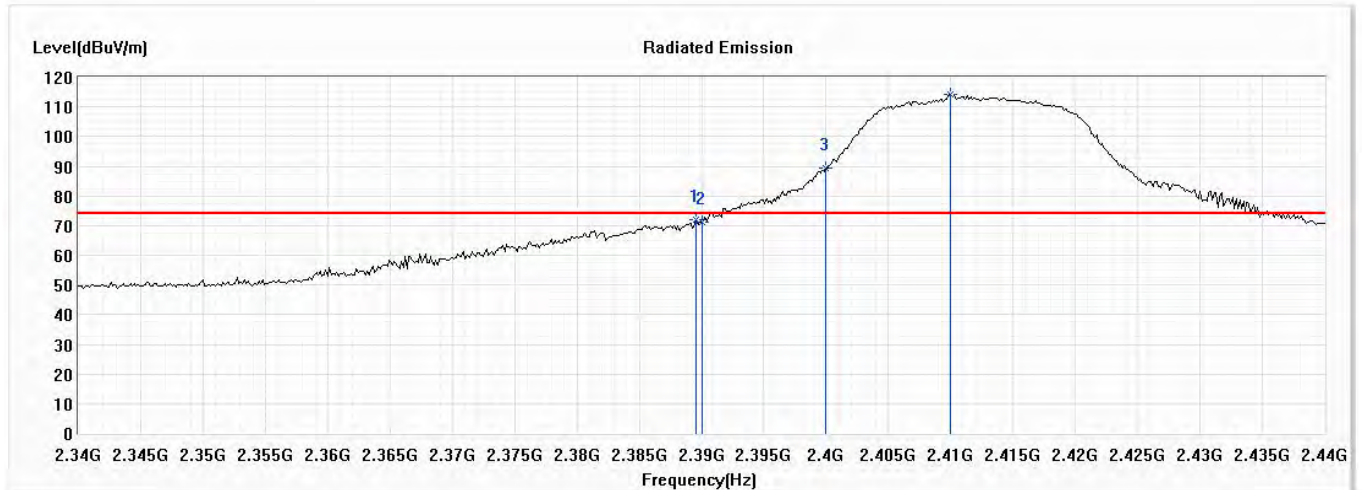
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2463.210	96.60	--	--	83.10	13.50	AV
2	2483.500	46.79	54.00	-7.21	33.39	13.40	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



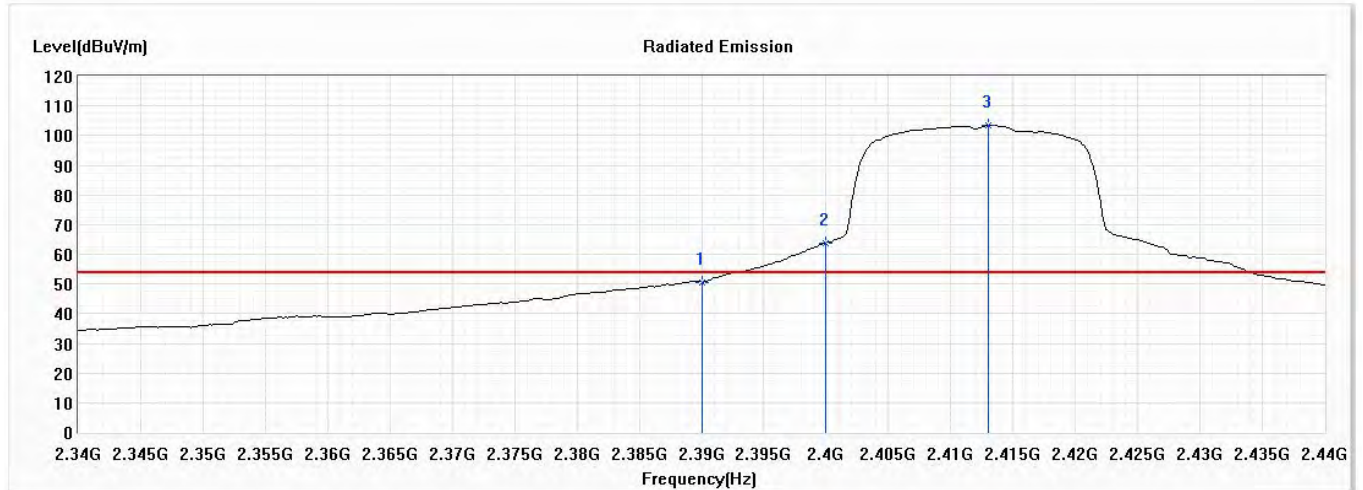
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2389.565	72.00	74.00	-2.00	58.84	13.16	PK
2	2390.000	71.30	74.00	-2.70	58.15	13.15	PK
3	2400.000	89.35	--	--	76.23	13.12	PK
4	2410.000	114.23	--	--	101.02	13.21	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2412MHz)
 Test Date : 2021/03/11

Horizontal



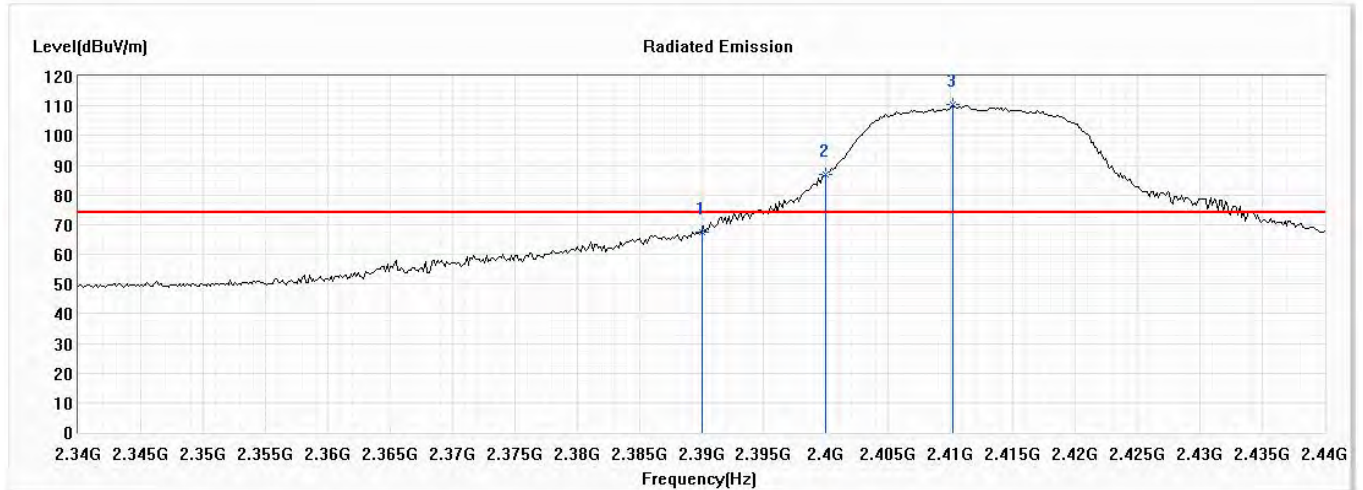
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	50.61	54.00	-3.39	37.46	13.15	AV
2	2400.000	63.86	--	--	50.74	13.12	AV
3	2413.043	103.36	--	--	90.13	13.23	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



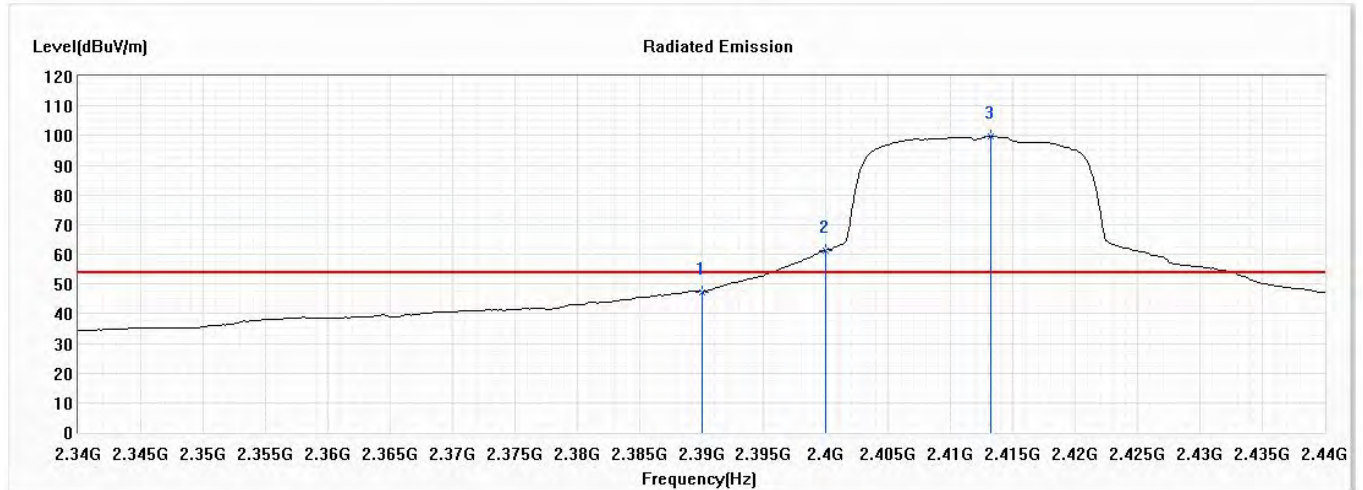
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	67.62	74.00	-6.38	54.47	13.15	PK
2	2400.000	86.81	--	--	73.69	13.12	PK
3	2410.145	110.59	--	--	97.39	13.20	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2412MHz)
 Test Date : 2021/03/11

Vertical



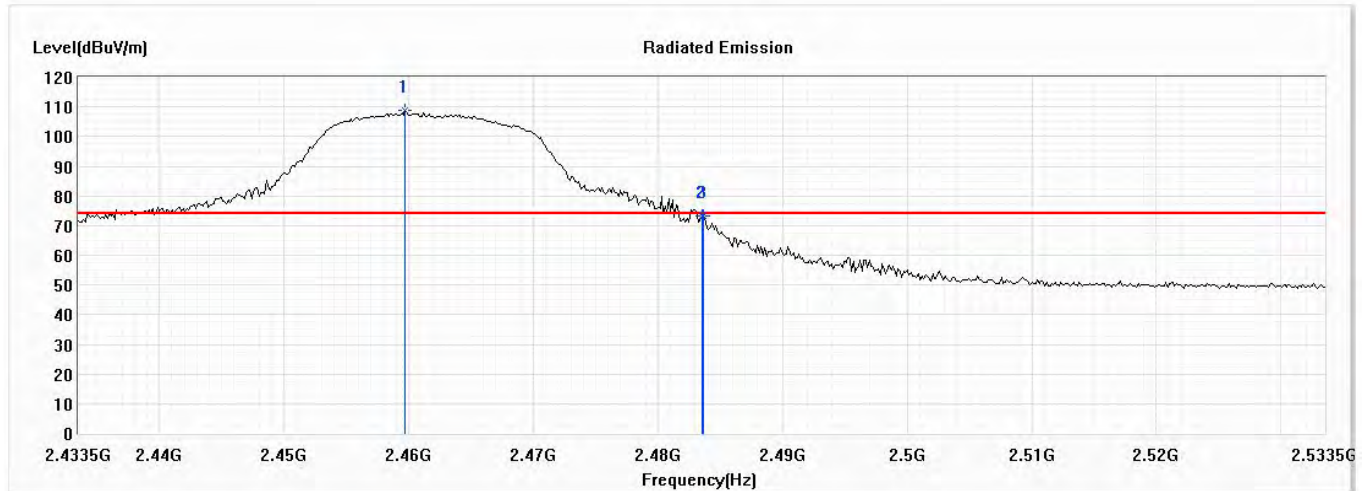
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	47.34	54.00	-6.66	34.19	13.15	AV
2	2400.000	61.29	--	--	48.17	13.12	AV
3	2413.188	99.80	--	--	86.56	13.24	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



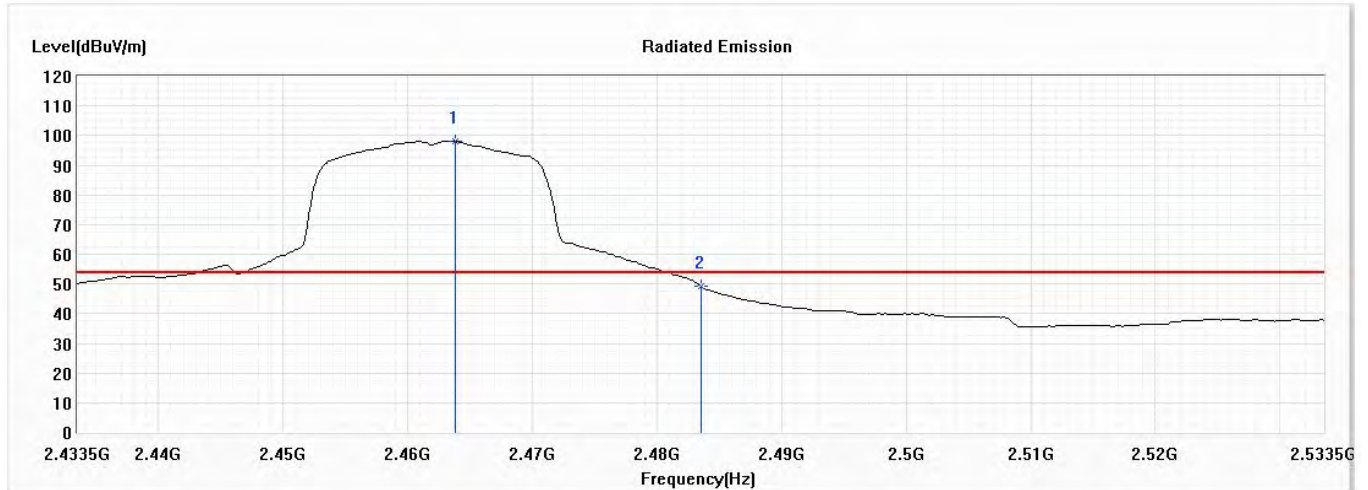
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2459.732	109.00	--	--	95.49	13.51	PK
2	2483.500	73.26	74.00	-0.74	59.86	13.40	PK
3	2483.645	73.41	74.00	-0.59	60.01	13.40	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462MHz)
 Test Date : 2021/03/11

Horizontal



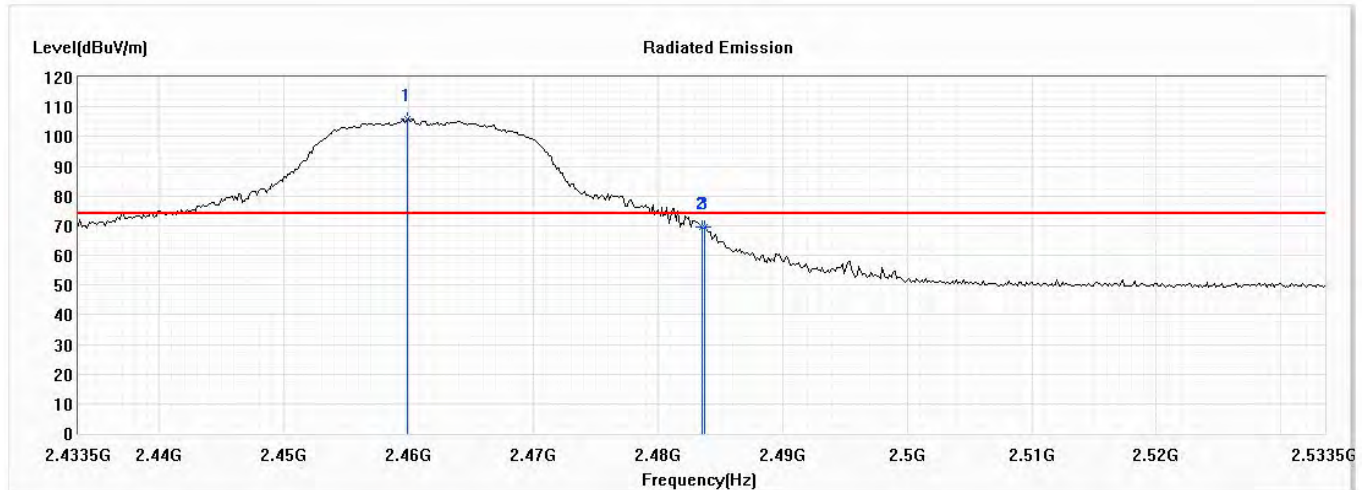
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2463.790	98.09	--	--	84.59	13.50	AV
2	2483.500	49.24	54.00	-4.76	35.84	13.40	AV

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



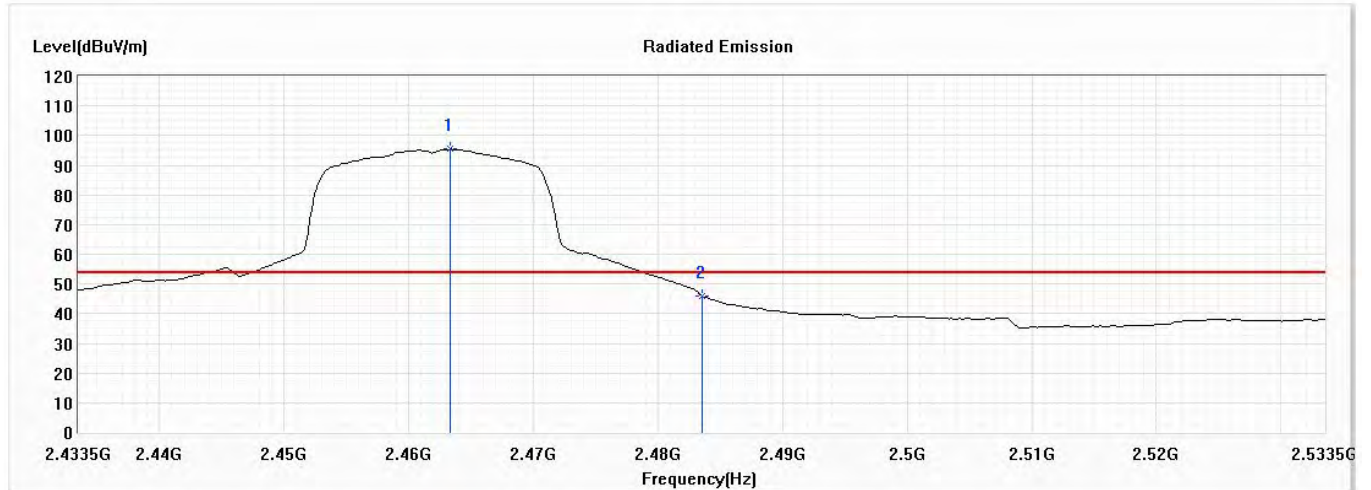
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2459.877	106.02	--	--	92.51	13.51	PK
2	2483.500	69.59	74.00	-4.41	56.19	13.40	PK
3	2483.790	69.72	74.00	-4.28	56.32	13.40	PK

Note:

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

Product : EDB10
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps) (2462MHz)
 Test Date : 2021/03/11

Vertical



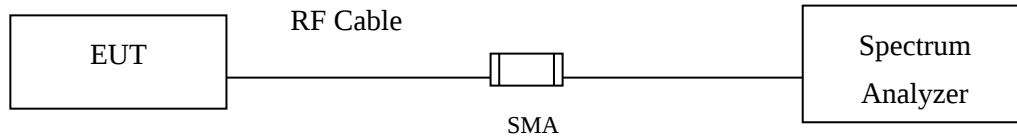
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2463.355	95.39	--	--	81.89	13.50	AV
2	2483.500	46.00	54.00	-8.00	32.60	13.40	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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

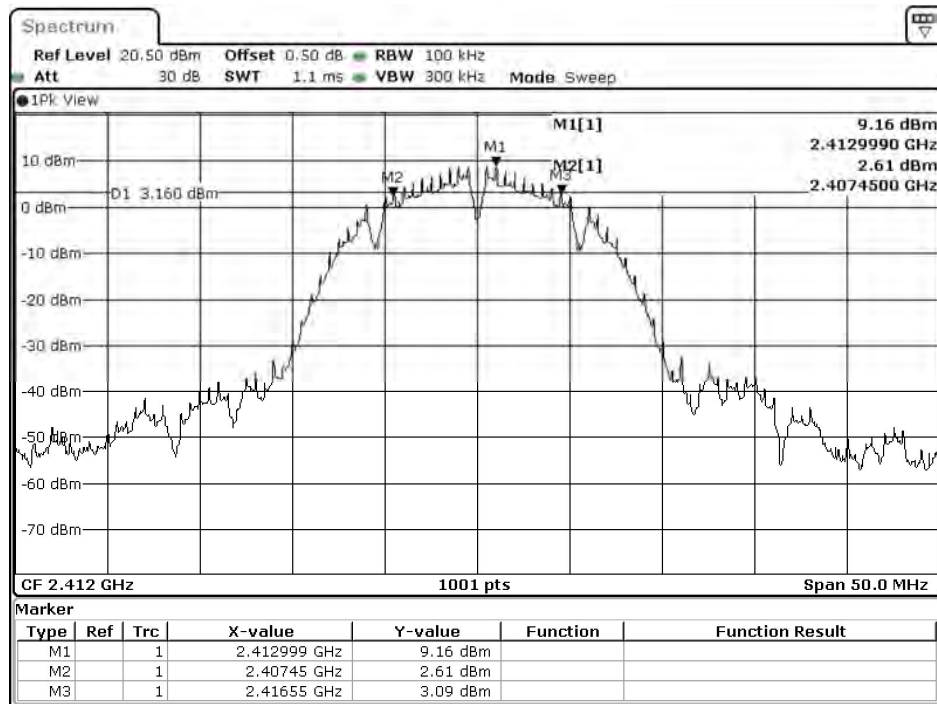
The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of 6dB Bandwidth

Product : EDB10
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

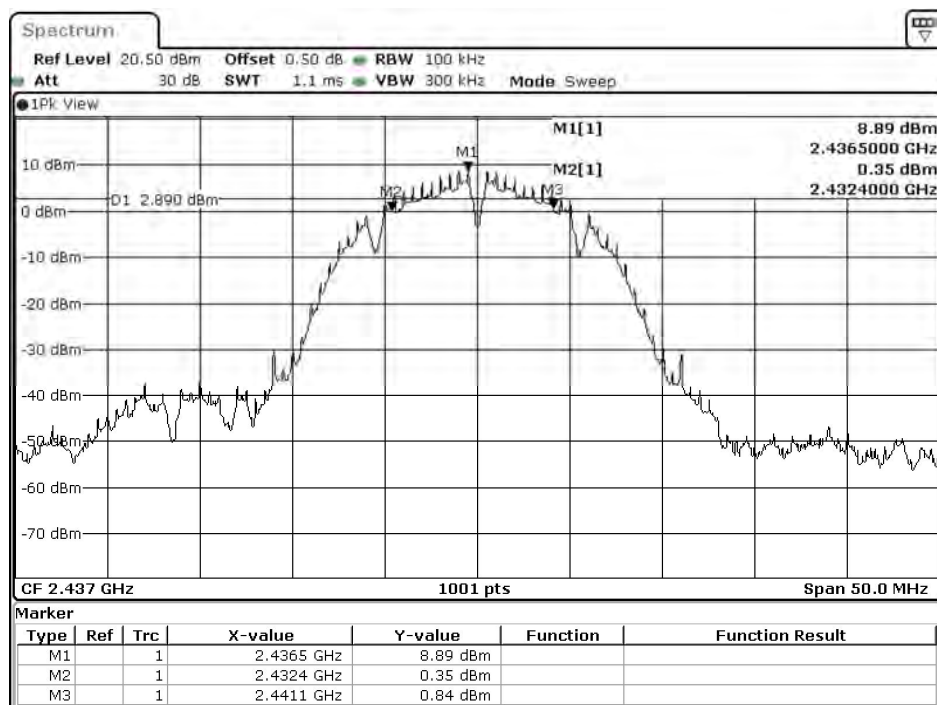
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	9100	>500	Pass
06	2437	8700	>500	Pass
11	2462	9100	>500	Pass

Figure Channel 01:



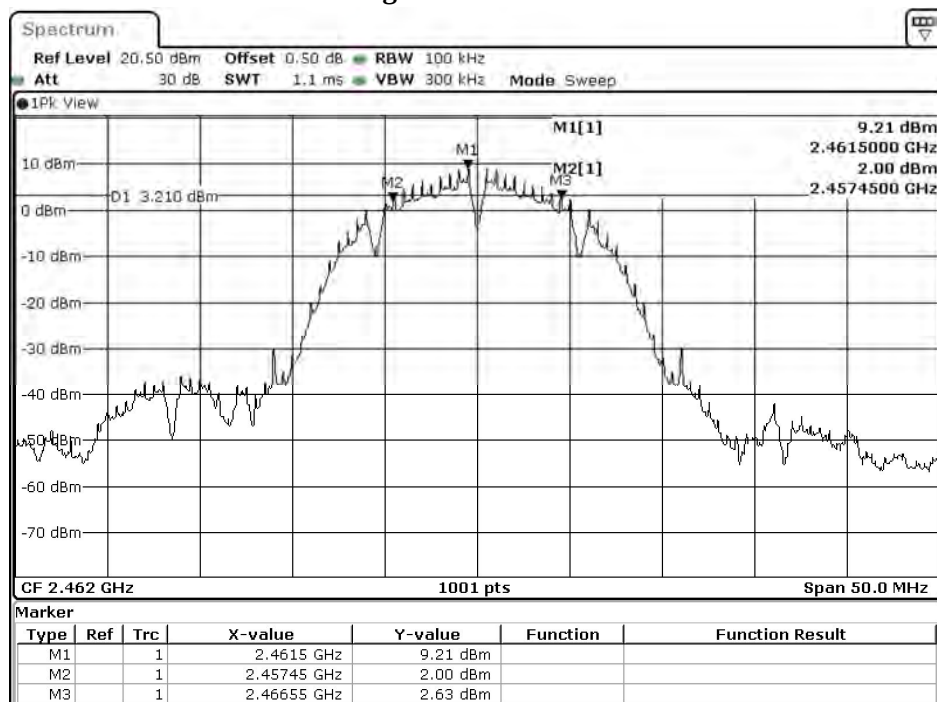
Date: 30.MAR.2021 20:01:11

Figure Channel 06:



Date: 30.MAR.2021 20:09:58

Figure Channel 11:

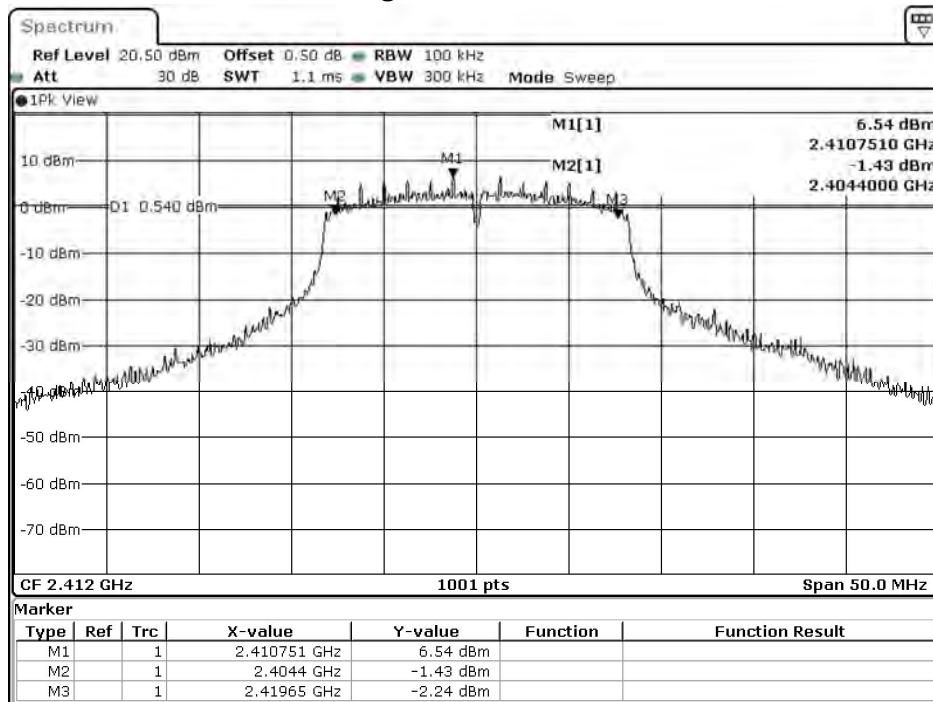


Date: 30.MAR.2021 20:13:46

Product : EDB10
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

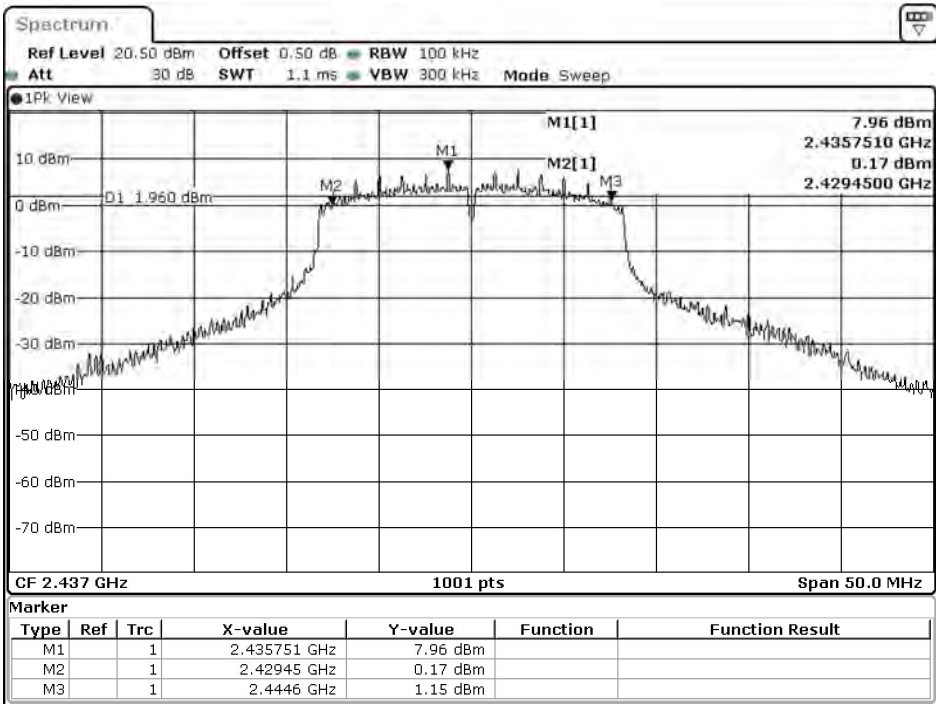
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15250	>500	Pass
06	2437	15150	>500	Pass
11	2462	15200	>500	Pass

Figure Channel 01:



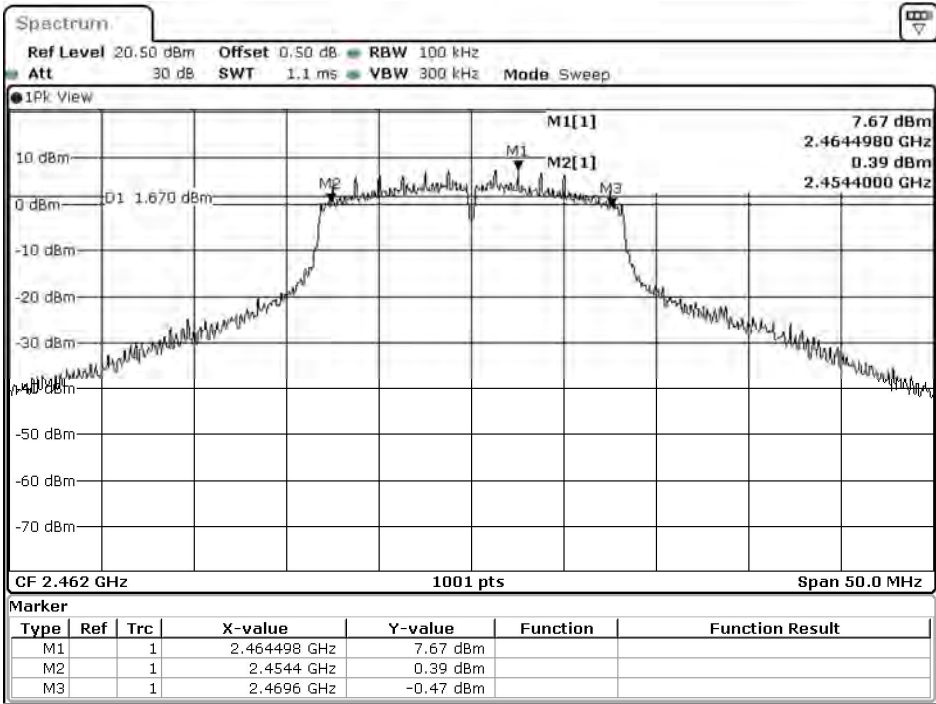
Date: 23.MAR.2021 19:52:19

Figure Channel 06:



Date: 23.MAR.2021 19:55:25

Figure Channel 11:

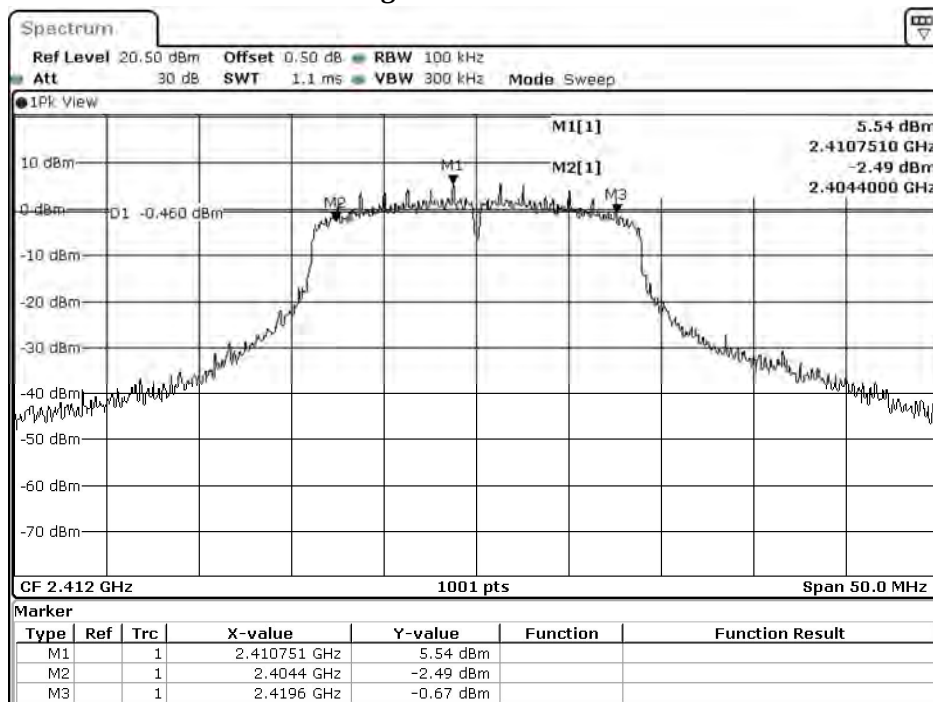


Date: 23.MAR.2021 19:58:25

Product : EDB10
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)

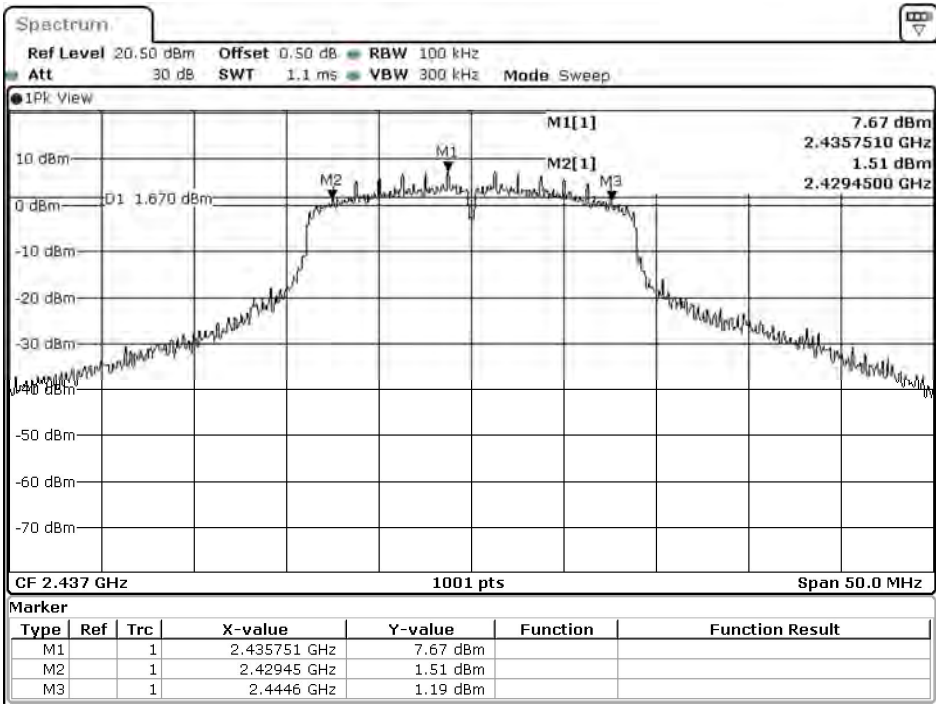
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15200	>500	Pass
06	2437	15150	>500	Pass
11	2462	15250	>500	Pass

Figure Channel 01:



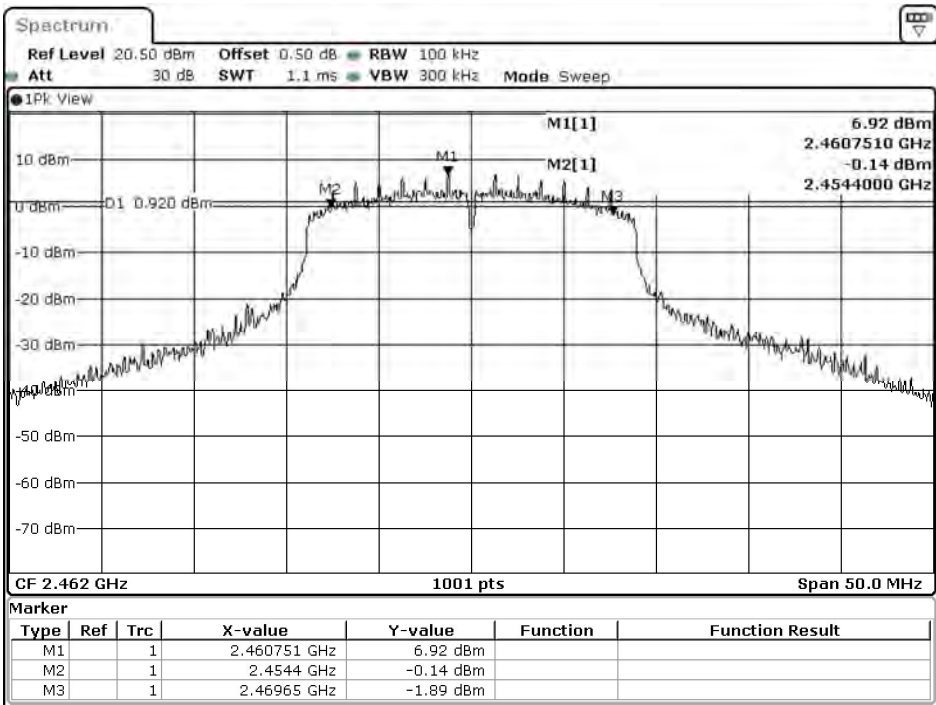
Date: 23.MAR.2021 20:08:00

Figure Channel 06:



Date: 23.MAR.2021 20:10:45

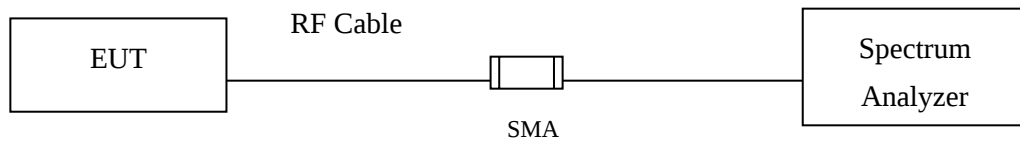
Figure Channel 11:



Date: 23.MAR.2021 20:14:01

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.

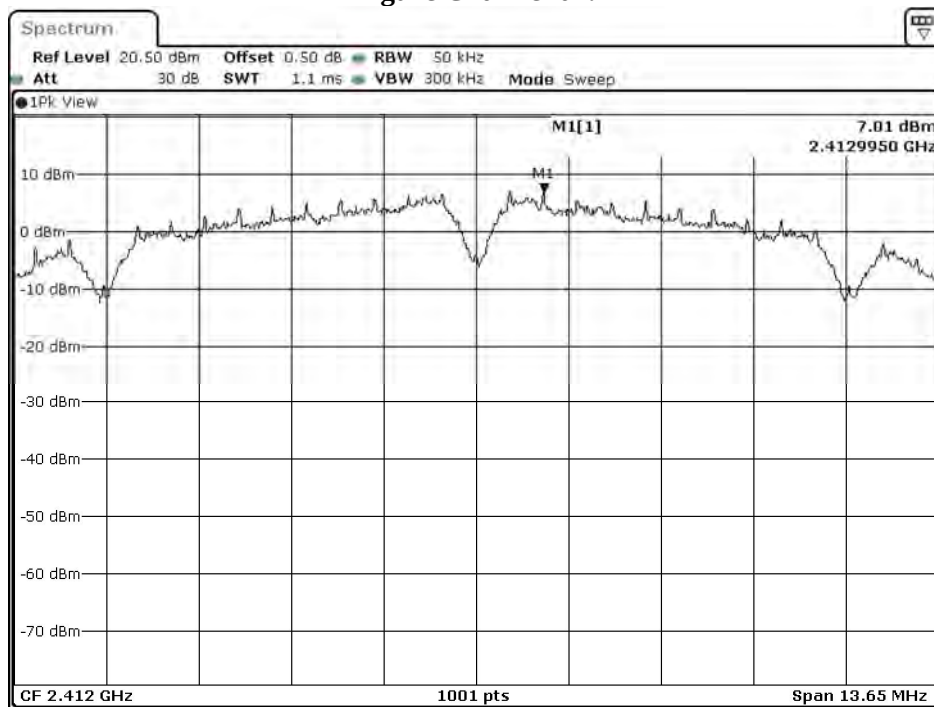
The maximum power spectral density using C63.10 Section 11.10.2 Method PKPSD (peak PSD)

8.4. Test Result of Power Density

Product : EDB10
 Test Item : Power Density Data
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

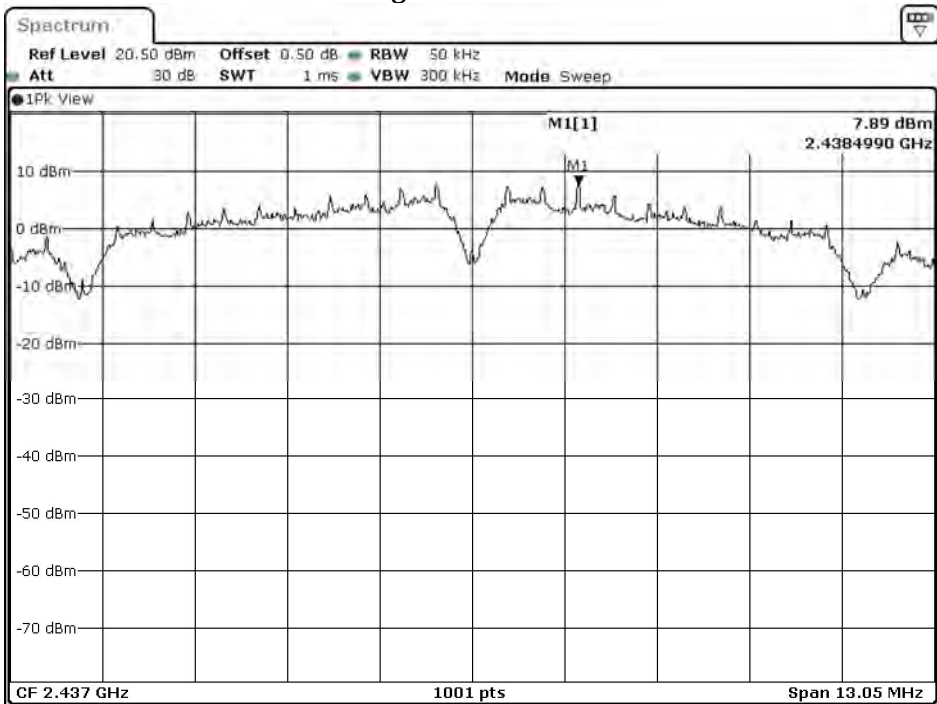
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.010	$\leq 8\text{dBm}$	Pass
06	2437	7.890	$\leq 8\text{dBm}$	Pass
11	2462	7.250	$\leq 8\text{dBm}$	Pass

Figure Channel 01:



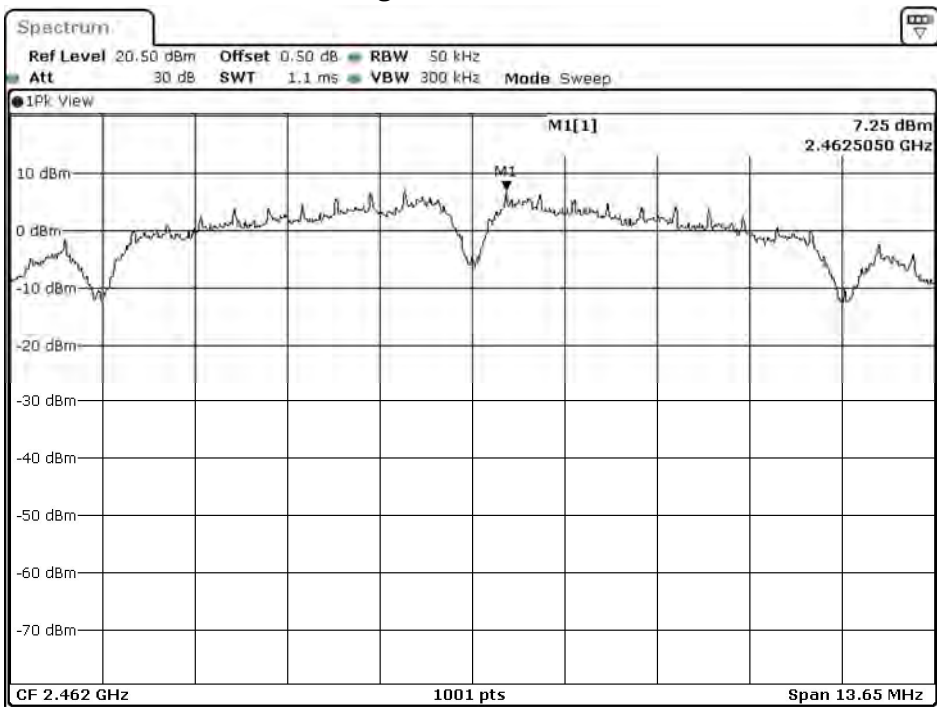
Date: 30.MAR.2021 20:02:22

Figure Channel 06:



Date: 30.MAR.2021 20:11:24

Figure Channel 11:

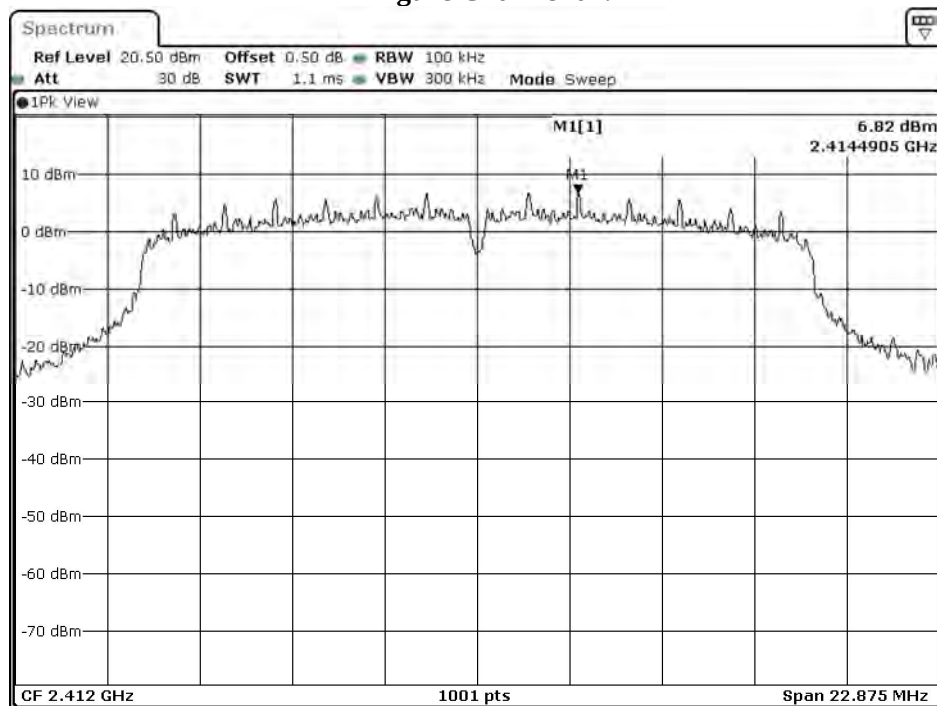


Date: 30.MAR.2021 20:14:57

Product : EDB10
 Test Item : Power Density Data
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

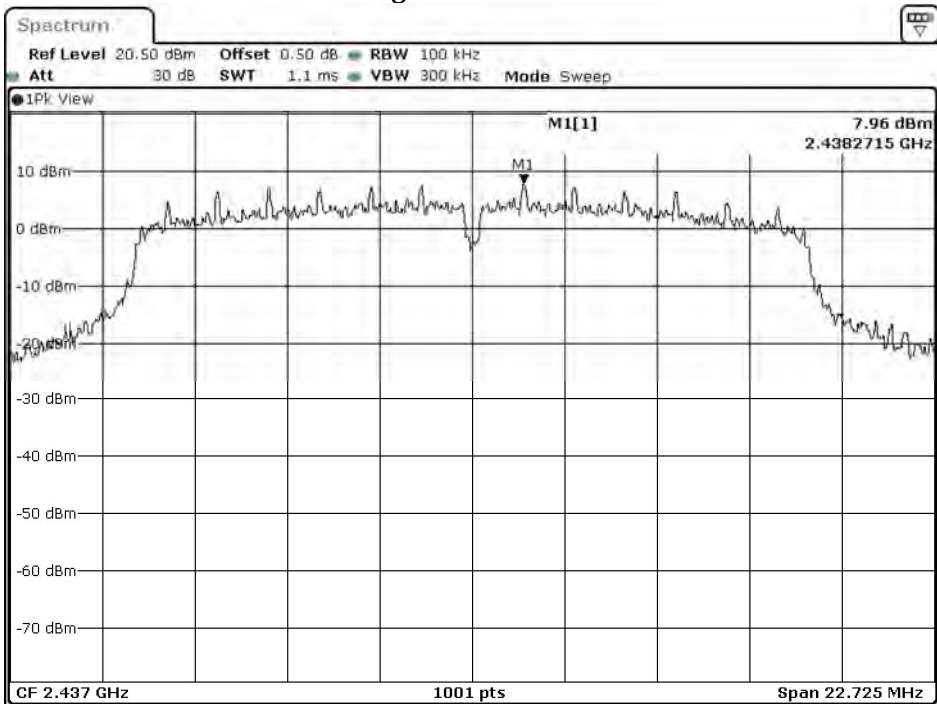
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.820	$\leq 8\text{dBm}$	Pass
06	2437	7.960	$\leq 8\text{dBm}$	Pass
11	2462	7.630	$\leq 8\text{dBm}$	Pass

Figure Channel 01:



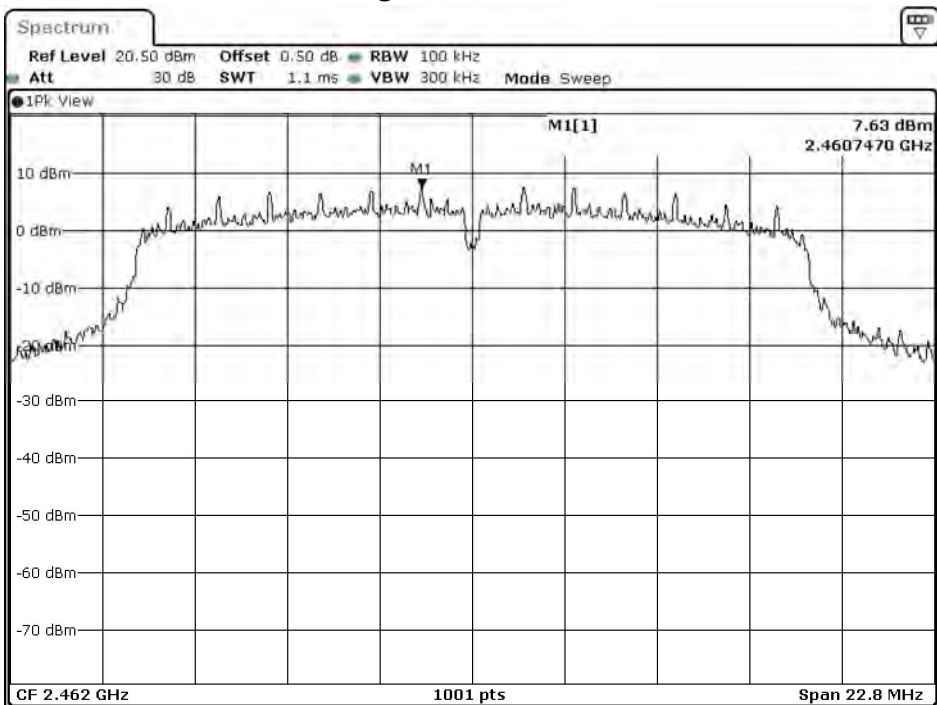
Date: 23.MAR.2021 19:52:40

Figure Channel 06:



Date: 23.MAR.2021 19:55:47

Figure Channel 11:

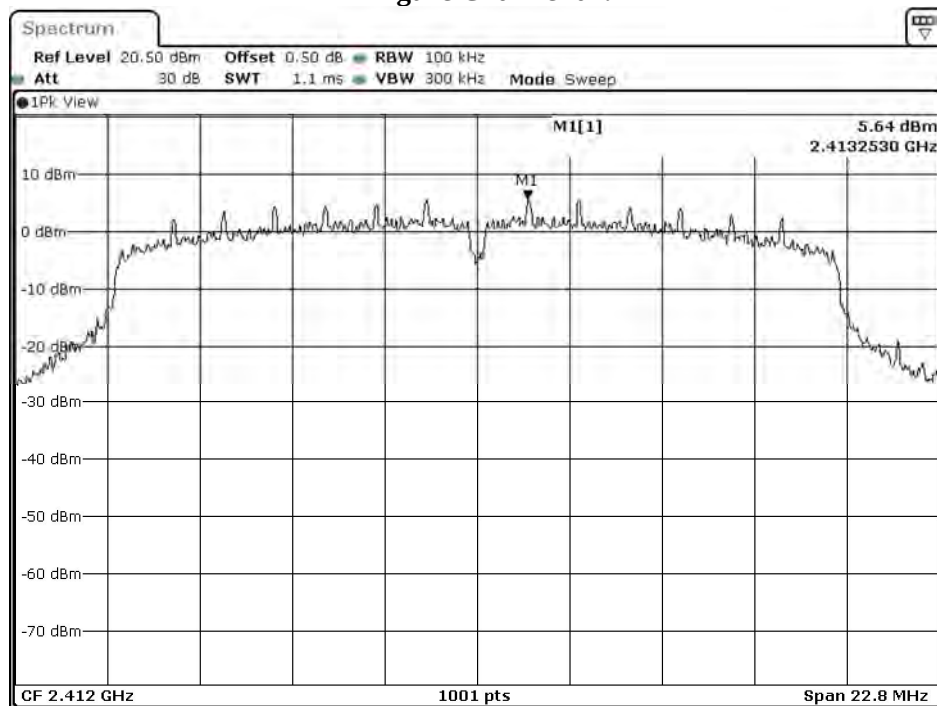


Date: 23.MAR.2021 19:58:47

Product : EDB10
 Test Item : Power Density Data
 Test Mode : Mode 3: Transmit (802.11n-20MBW 7.2Mbps)

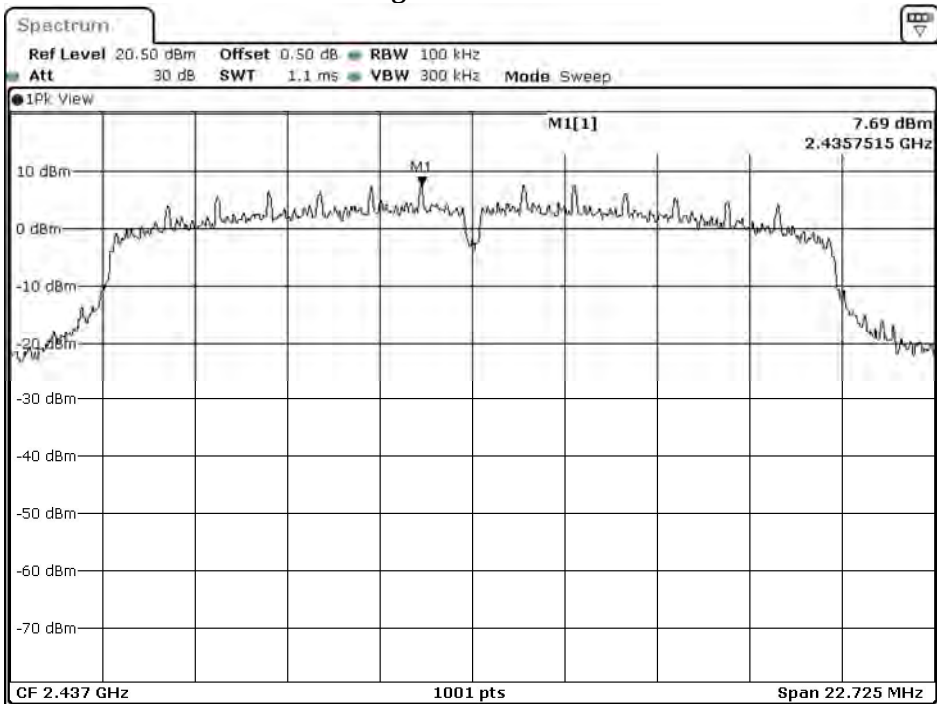
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.640	$\leq 8\text{dBm}$	Pass
06	2437	7.690	$\leq 8\text{dBm}$	Pass
11	2462	6.730	$\leq 8\text{dBm}$	Pass

Figure Channel 01:



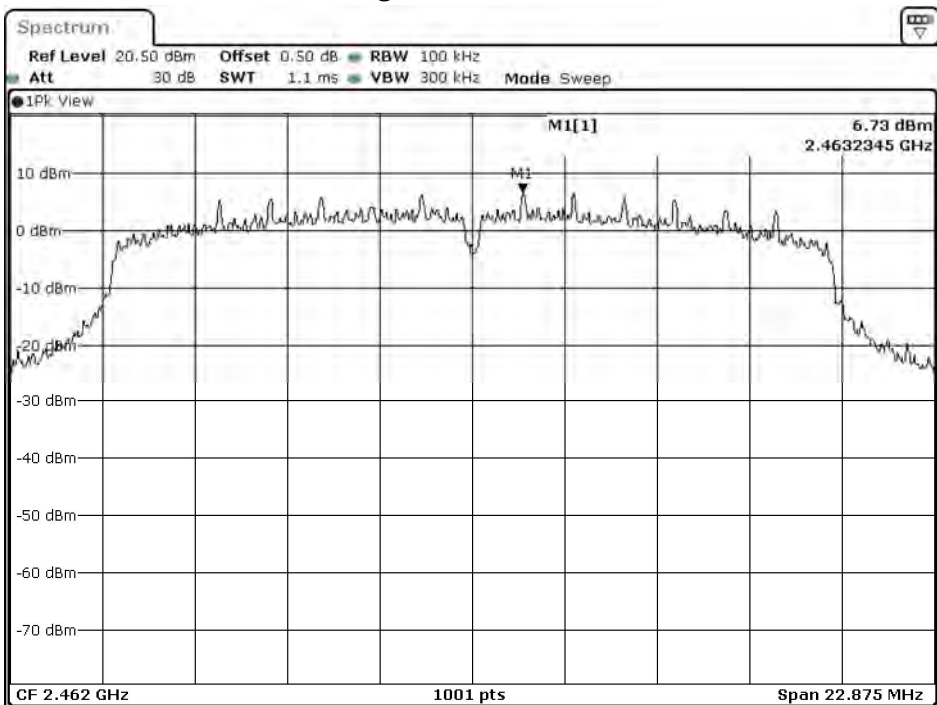
Date: 23.MAR.2021 20:08:22

Figure Channel 06:



Date: 23.MAR.2021 20:11:07

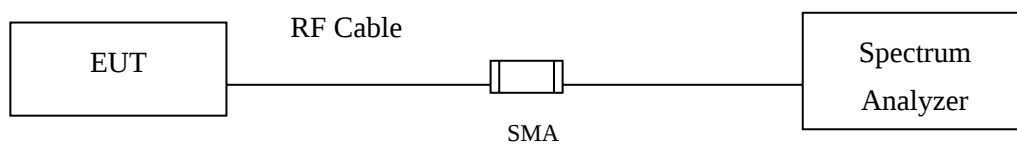
Figure Channel 11:



Date: 23.MAR.2021 20:14:22

9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

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

9.3. Test Result of Duty Cycle

Product : EDB10
 Test Item : Duty Cycle
 Test Mode : Transmit

Duty Cycle Formula:

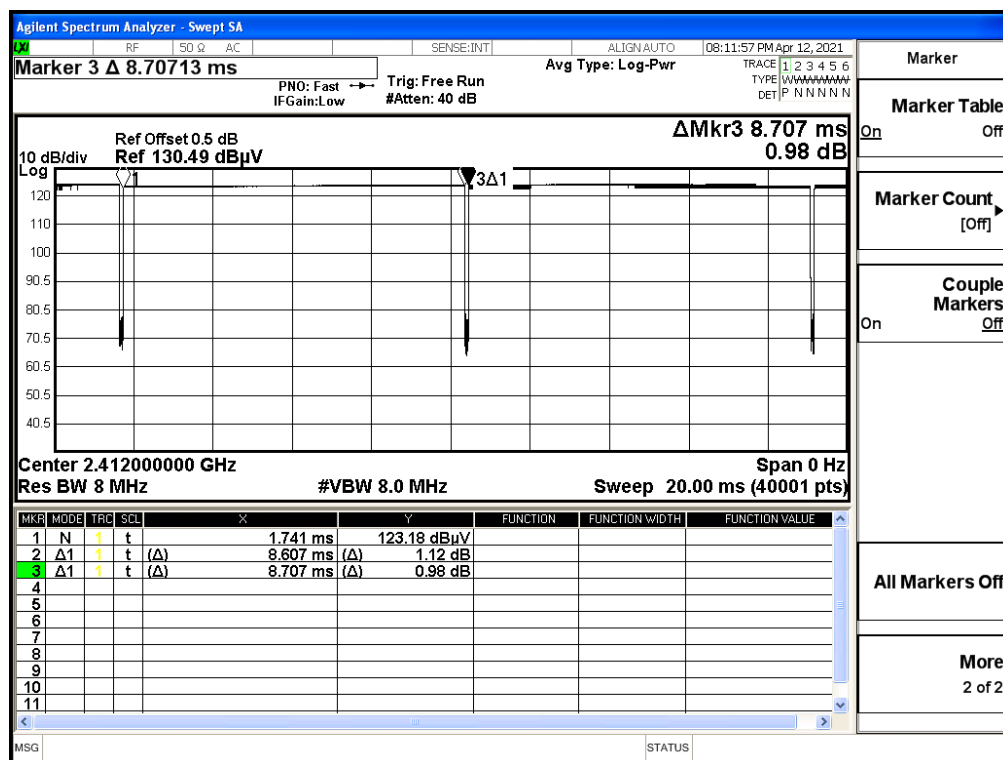
Duty Cycle = Ton / (Ton + Toff)

Duty Factor = 10 Log (1/Duty Cycle)

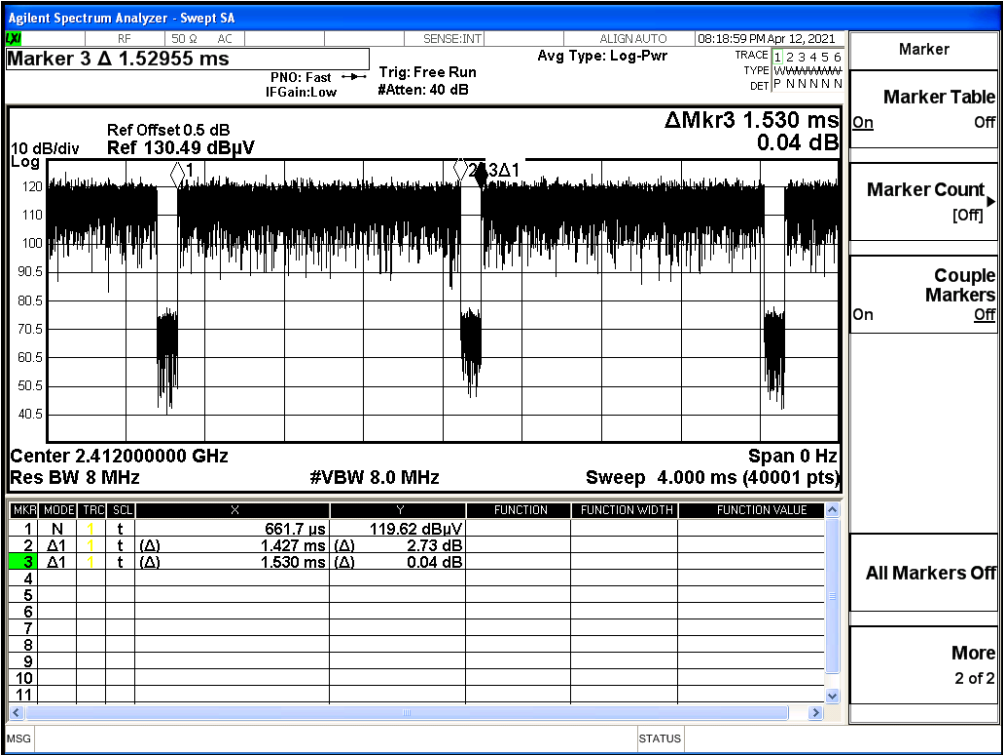
Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.6070	8.7070	98.85	0.05
802.11g	1.4270	1.5300	93.27	0.30
802.11n20	1.3360	1.4370	92.97	0.32

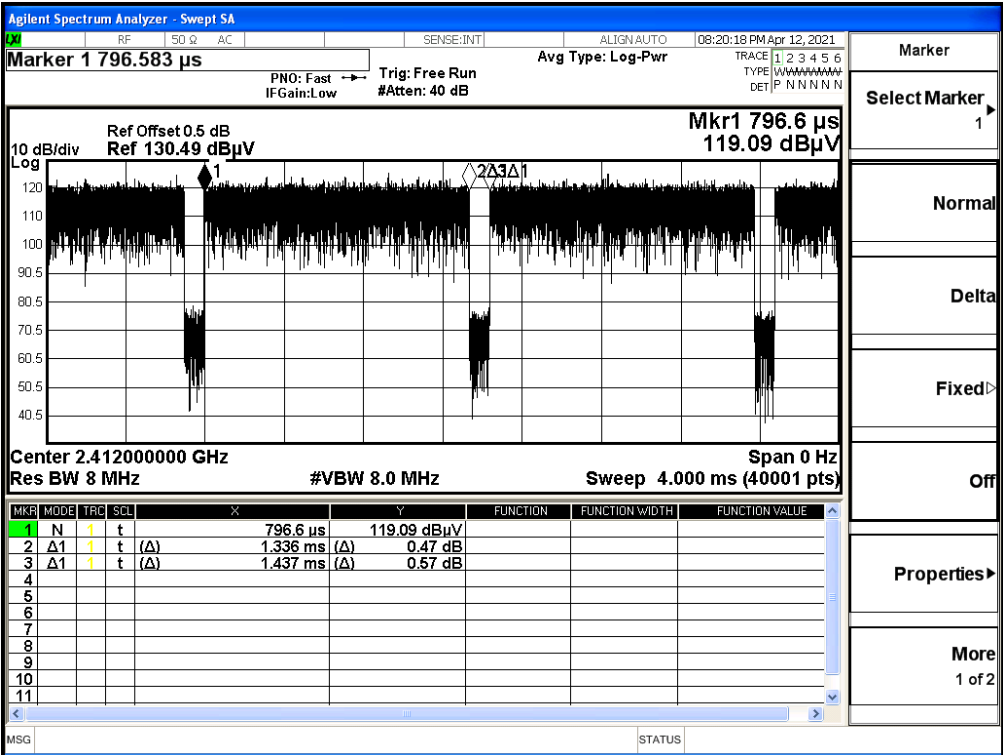
802.11b



802.11g



802.11n20



10. EMI Reduction Method During Compliance Testing

No modification was made during testing.