

FCC Test Report

Product Name : Verizon Mesh Router

Trade Name : ASUS

Model No. : VZMESHROUTER, VZMESHWAR, VZW-AC1300

FCC ID. : MSQ-RTACHQ00

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : Oct. 23, 2017

Issued Date : Dec. 04, 2017

Report No. : 17A0318R-RFUSP01V01-A

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Dec. 04, 2017


Report No. : 17A0318R-RFUSP01V01-A




Product Name : Verizon Mesh Router
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
Model No. : VZMESHROUTER, VZMESHWAR, VZW-AC1300
FCC ID. : MSQ-RTACHQ00
EUT Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2016
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By : 

(Lyla Yang / Engineering Adm. Specialist)

Tested By : 

(Scott Chang / Engineer)

Approved By : 

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
17A0318R-RFUSP01V01-A	V1.0	Initial issue of report	Dec. 04, 2017

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1. General Information

1.1. EUT Description

Product Name	Verizon Mesh Router
Trade Name	ASUS
Model No.	VZMESHROUTER, VZMESHWAR, VZW-AC1300
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	Bluetooth 4.0(GFSK)

Antenna Information	
MFR. /Model No.	Unictron / H2U34W1H1Z0100
Antenna Type	Chip Antenna
Antenna Gain	2.5 dBi

Accessories Information	
Power Adapter (Level 6)	APD, WB-18D12FU I/P : 100-240V~ 50/60Hz 0.5A Max. O/P : 12V ===1.5A Cable Out: Non-Shielded, 2 m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 MHz

Note:

1. This device is a Verizon Mesh Router support 2.4GHz b/g/n and 5GHz a/n/ac and BT4.0 / BT2.0 transmitting and receiving function.
2. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit Mode
-----------	-----------------------

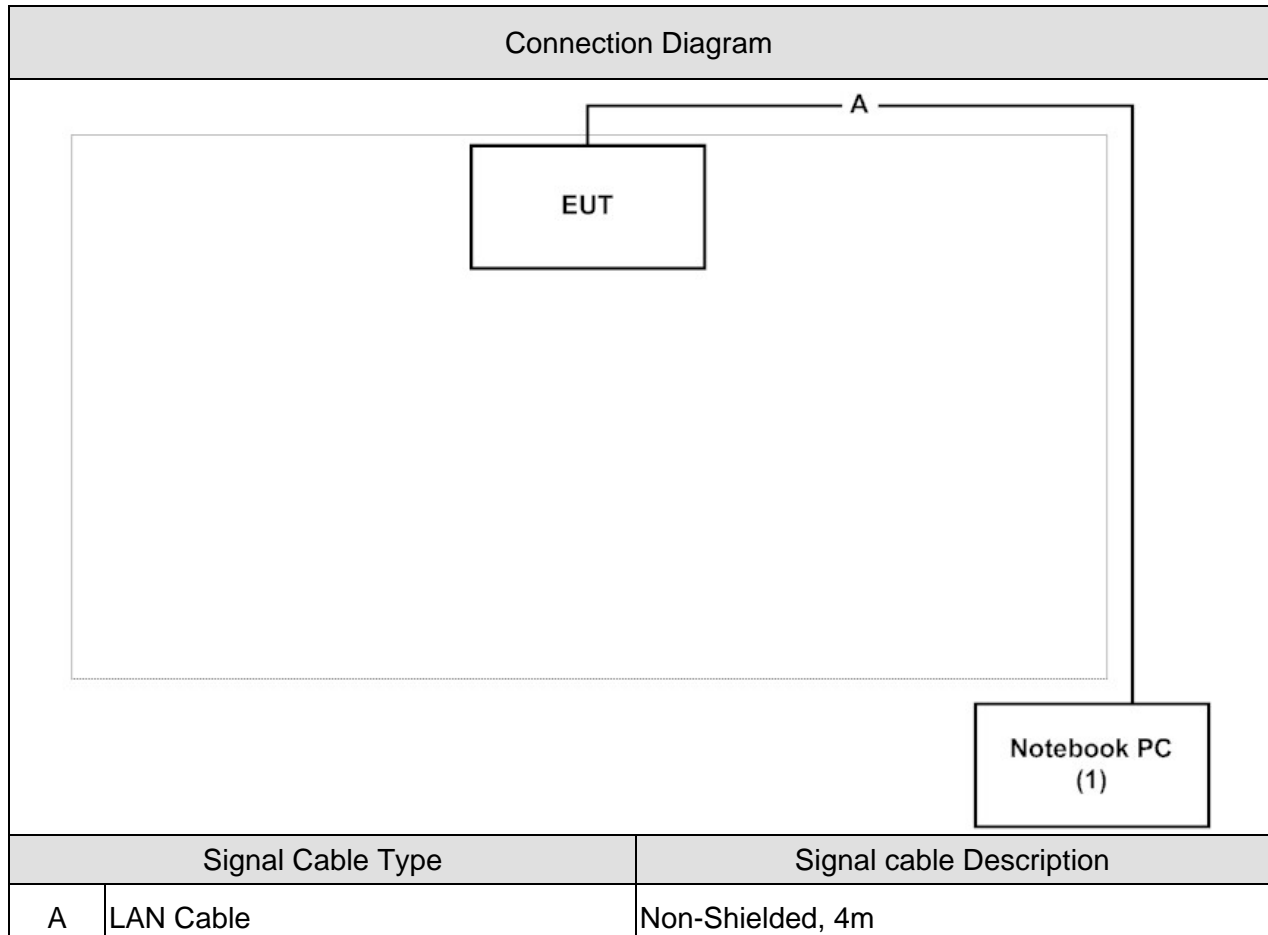
Test Items	Mode	Modulation	Channel	Result
Conducted Emission	1	GFSK	19	Complies
Peak Power Output	1	GFSK	00/19/39	Complies
Radiated Emission	1	GFSK	00/19/39	Complies
RF antenna conducted test	1	GFSK	00/39	Complies
Radiated Emission Band Edge	1	GFSK	00/19/39	Complies
Occupied Bandwidth	1	GFSK	00/19/39	Complies
DTS Bandwidth	1	GFSK	00/19/39	Complies
Power Density	1	GFSK	00/19/39	Complies

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.	FCC ID	Power Cord
1	Notebook PC	DELL	Latitude 600	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the “command” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 DTS Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

USA : FCC, Registration Number: TW3024

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

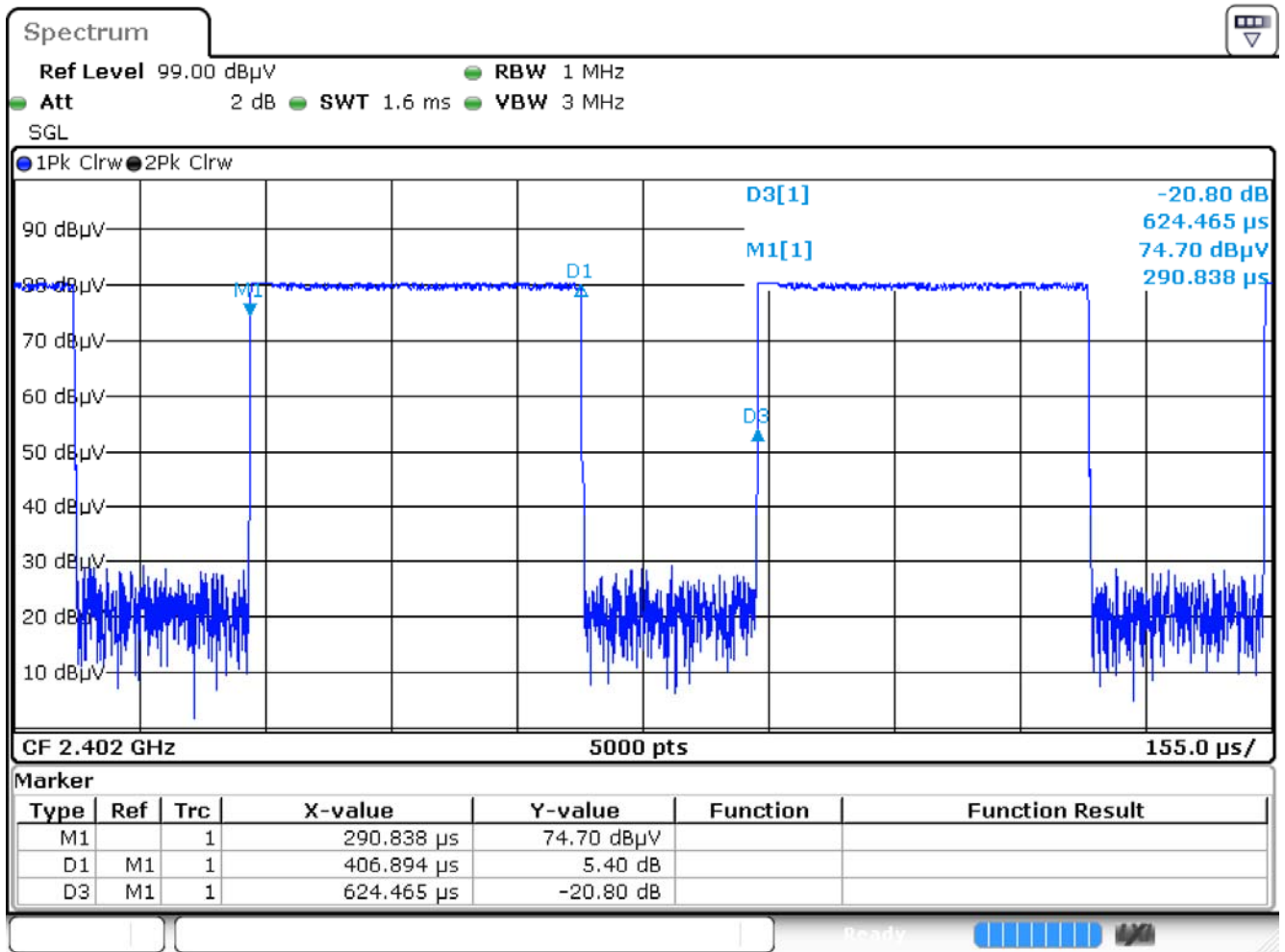
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

- No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan (R.O.C.)
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : info.tw@dekra.com
- No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com
- No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

1.7. Duty cycle

On Time (us)	Off Time (us)	Duty Cycle (%)	Off Set (dB)
406.894	624.465	65.15%	-3.721



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2. Conducted Emission

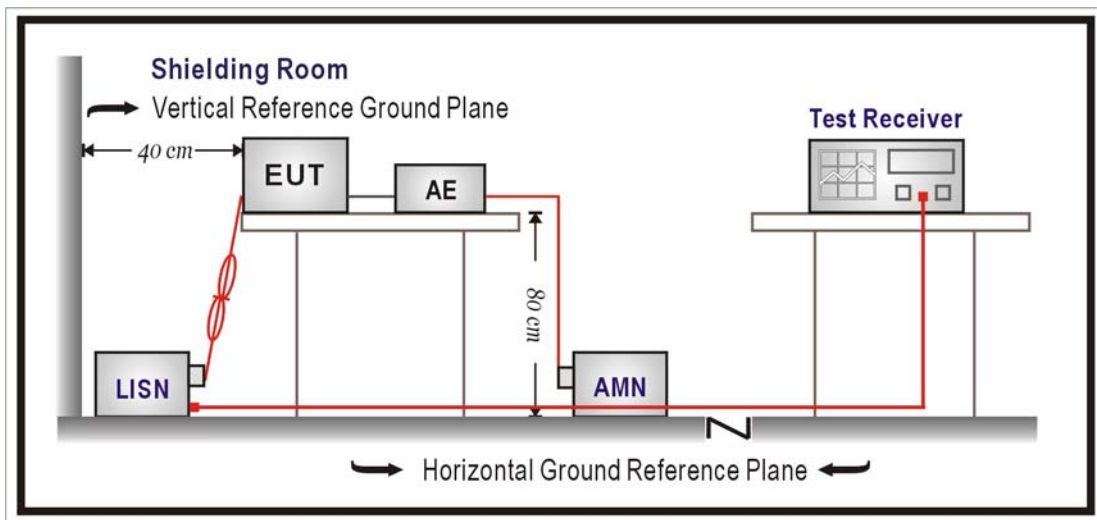
2.1. Test Equipment

The following test equipment are used during the test:

Conducted Emission /SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2017/02/06	2018/02/05
Test Receiver	R&S	ESCS 30	836858/022	2017/04/12	2018/04/11
LISN	R&S	ENV216	100092	2017/07/31	2018/07/30

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

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

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

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

2.5. Test Specification

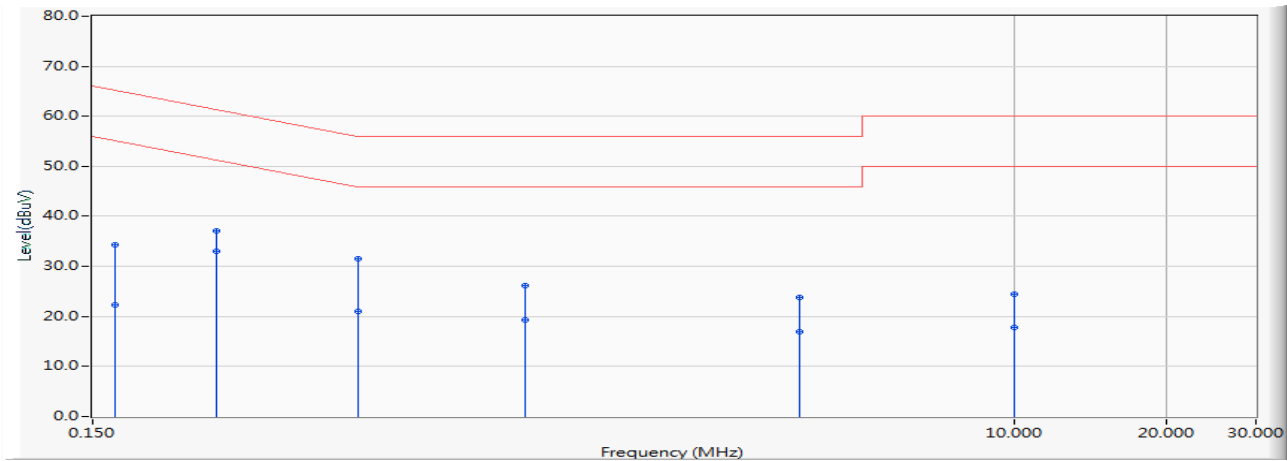
According to FCC Part 15 Subpart C Paragraph 15.207: 2016

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz

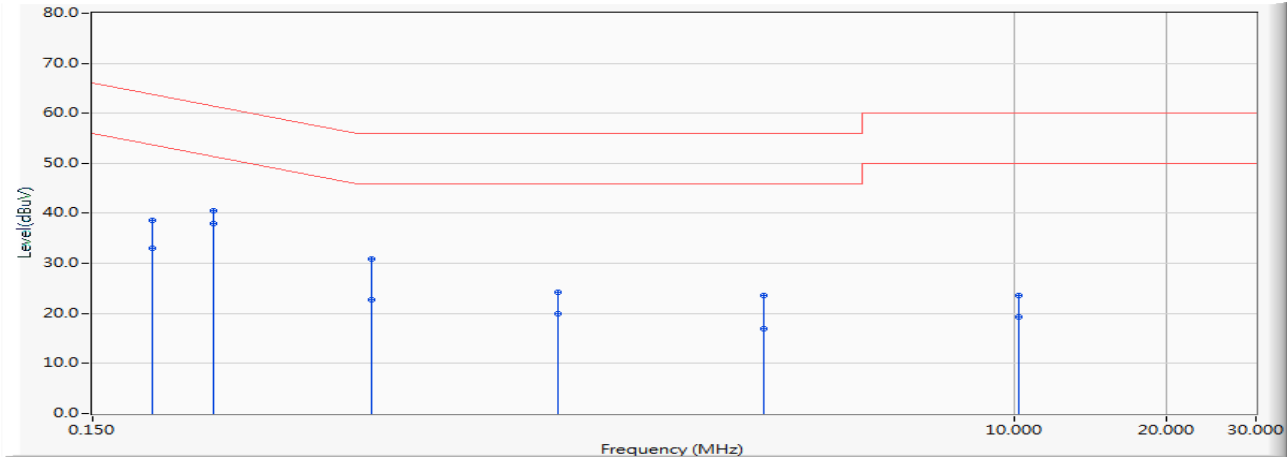


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.753	24.590	34.343	-30.834	65.177	QUASPEAK
2	0.166	9.753	12.480	22.233	-32.944	55.177	AVERAGE
3	0.263	9.744	27.430	37.174	-24.154	61.327	QUASPEAK
4	* 0.263	9.744	23.230	32.974	-18.354	51.327	AVERAGE
5	0.502	9.729	21.780	31.510	-24.490	56.000	QUASPEAK
6	0.502	9.729	11.210	20.940	-25.060	46.000	AVERAGE
7	1.076	9.823	16.340	26.163	-29.837	56.000	QUASPEAK
8	1.076	9.823	9.410	19.233	-26.767	46.000	AVERAGE
9	3.759	9.913	13.960	23.873	-32.127	56.000	QUASPEAK
10	3.759	9.913	7.060	16.973	-29.027	46.000	AVERAGE
11	10.005	10.130	14.360	24.490	-35.510	60.000	QUASPEAK
12	10.005	10.130	7.700	17.830	-32.170	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.197	9.751	28.860	38.611	-25.131	63.741	QUASPEAK
2	0.197	9.751	23.250	33.001	-20.741	53.741	AVERAGE
3	0.259	9.750	30.730	40.480	-20.971	61.451	QUASPEAK
4	* 0.259	9.750	28.200	37.950	-13.501	51.451	AVERAGE
5	0.533	9.749	21.220	30.970	-25.030	56.000	QUASPEAK
6	0.533	9.749	12.970	22.720	-23.280	46.000	AVERAGE
7	1.248	9.827	14.370	24.197	-31.803	56.000	QUASPEAK
8	1.248	9.827	10.080	19.907	-26.093	46.000	AVERAGE
9	3.189	9.844	13.650	23.494	-32.506	56.000	QUASPEAK
10	3.189	9.844	7.090	16.934	-29.066	46.000	AVERAGE
11	10.201	10.156	13.470	23.626	-36.374	60.000	QUASPEAK
12	10.201	10.156	9.060	19.216	-30.784	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

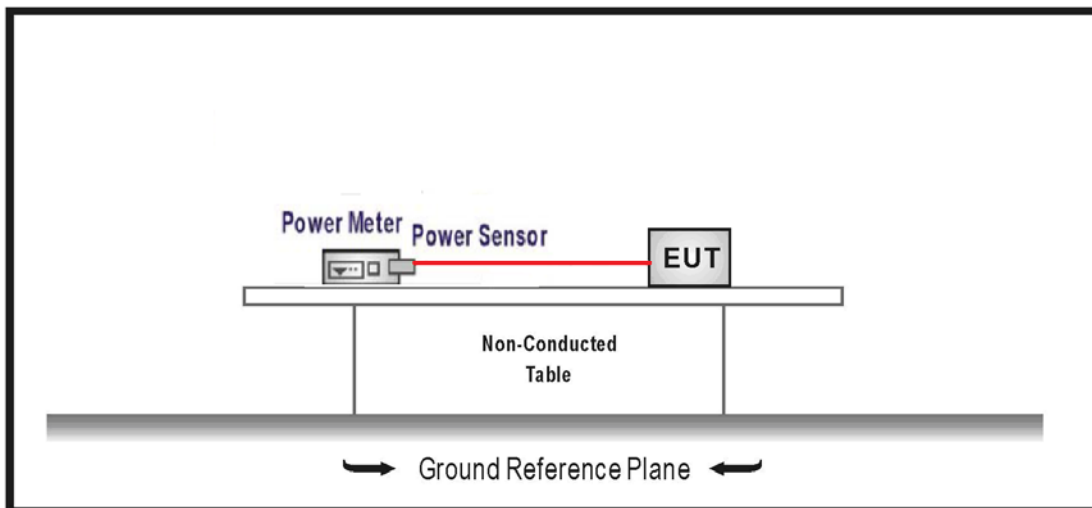
3.1. Test Equipment

The following test equipment is used during the test:

Peak Power Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2017/01/20	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531043	2017/01/20	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531044	2017/01/20	2018/01/19

3.2. Test Setup



3.3. Test procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

3.6. Test Result

Product	Verizon Mesh Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2017/11/08	Test Site	SR10-H

GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	0.560	30	Pass
19	2440	2.740	30	Pass
39	2480	4.260	30	Pass

4. Radiated Emission

4.1. Test Equipment

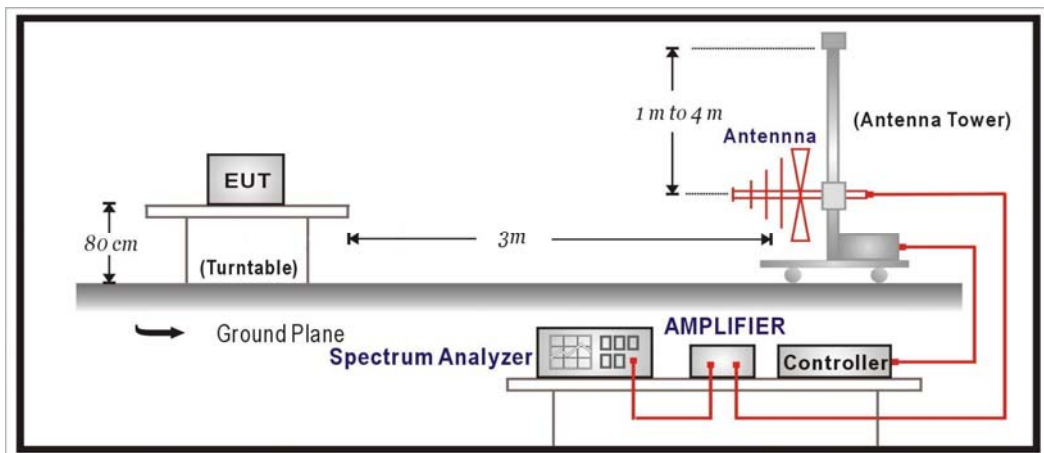
The following test equipment are used during the test:

Radiated Emission / CB2-H

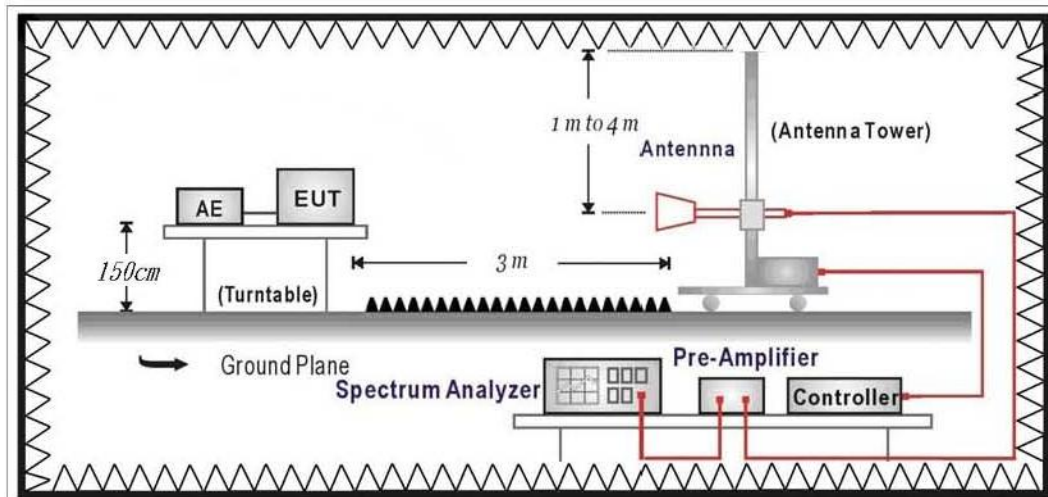
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	202	2017/02/15	2018/02/14
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2017/10/13	2018/10/12

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. 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	uV/m	dBuV/m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

- 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.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

On any frequency or frequencies from 9KHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

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

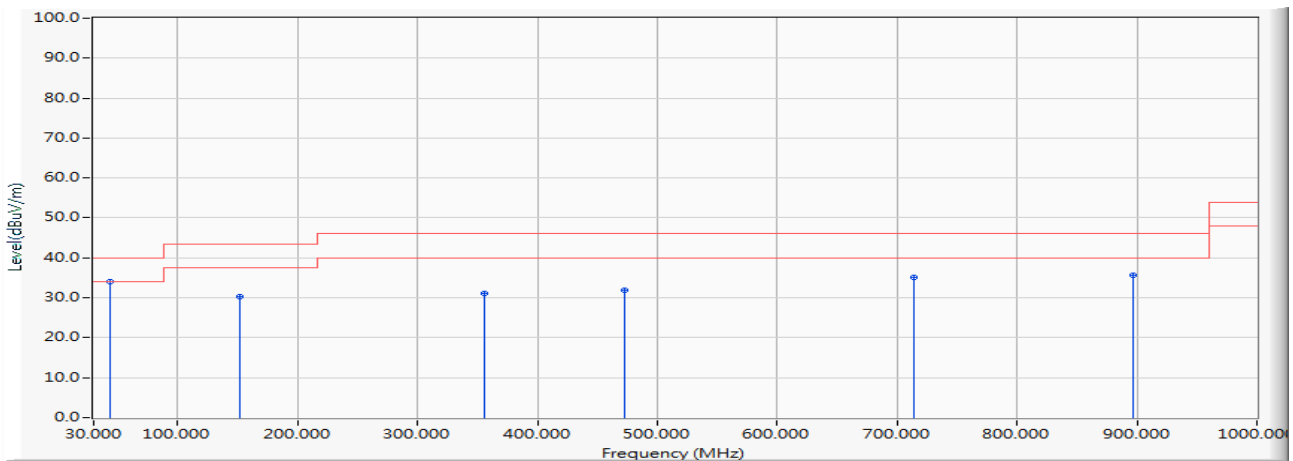
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

4.6. Test Result

30MHz-1GHz Spurious

Site : DEKRA Taiwan CB2-H	Time : 2017/10/24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BT4.0_2440MHz

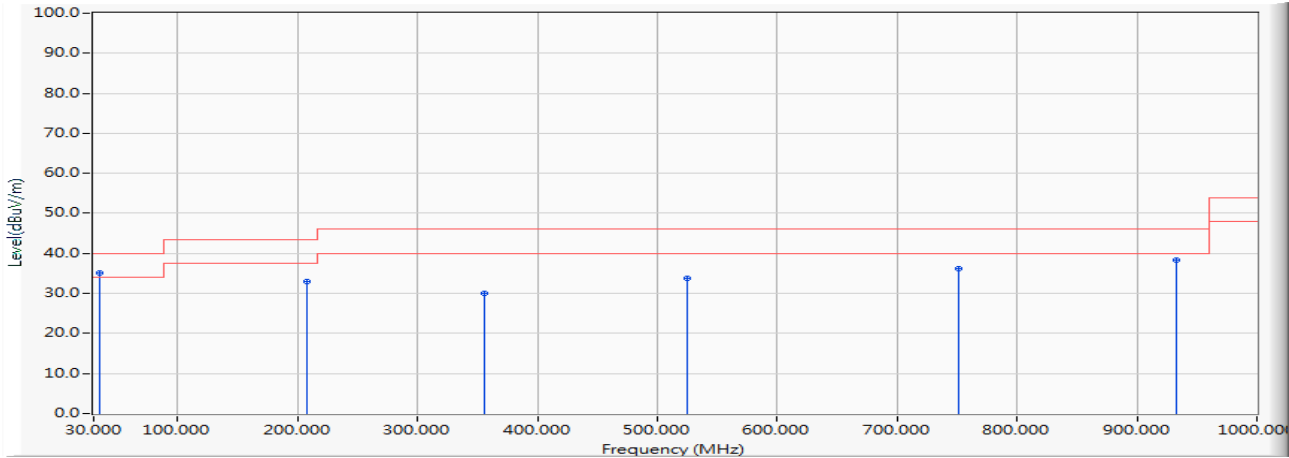


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	43.192	-20.508	54.620	34.112	-5.888	40.000	QUASPEAK
2		151.638	-22.570	52.850	30.280	-13.220	43.500	QUASPEAK
3		356.114	-17.336	48.401	31.065	-14.935	46.000	QUASPEAK
4		473.290	-14.844	46.773	31.929	-14.071	46.000	QUASPEAK
5		713.559	-12.037	47.040	35.003	-10.997	46.000	QUASPEAK
6		896.307	-9.844	45.623	35.778	-10.222	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The emission form 9KHz to 30MHz Radiated emission were not show in test report., because Pre-Scan lower than the limit line. The worst case is 6.449 uV/m.

Site : DEKRA Taiwan CB2-H	Time : 2017/10/24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BT4.0_2440MHz



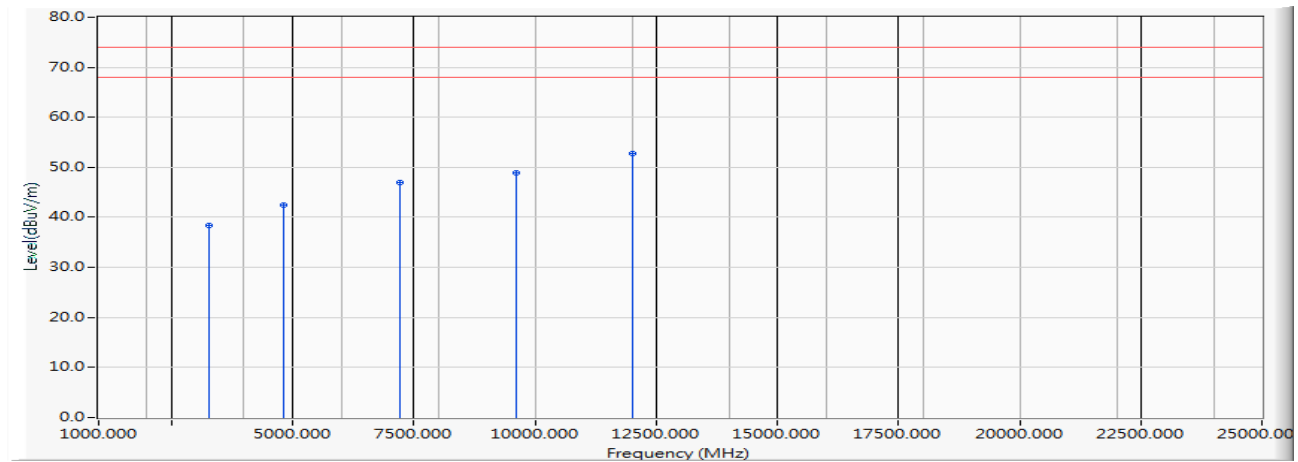
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	35.141	-16.839	52.082	35.243	-4.757	40.000	QUASPEAK
2		207.704	-22.986	56.004	33.017	-10.483	43.500	QUASPEAK
3		356.211	-17.333	47.459	30.126	-15.874	46.000	QUASPEAK
4		524.991	-14.198	47.970	33.772	-12.228	46.000	QUASPEAK
5		750.710	-11.702	47.953	36.252	-9.748	46.000	QUASPEAK
6		932.488	-9.127	47.585	38.457	-7.543	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The emission from 9KHz to 30MHz Radiated emission were not show in test report., because Pre-Scan lower than the limit line. The worst case is 6.449 uV/m.

Harmonic & Spurious:

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

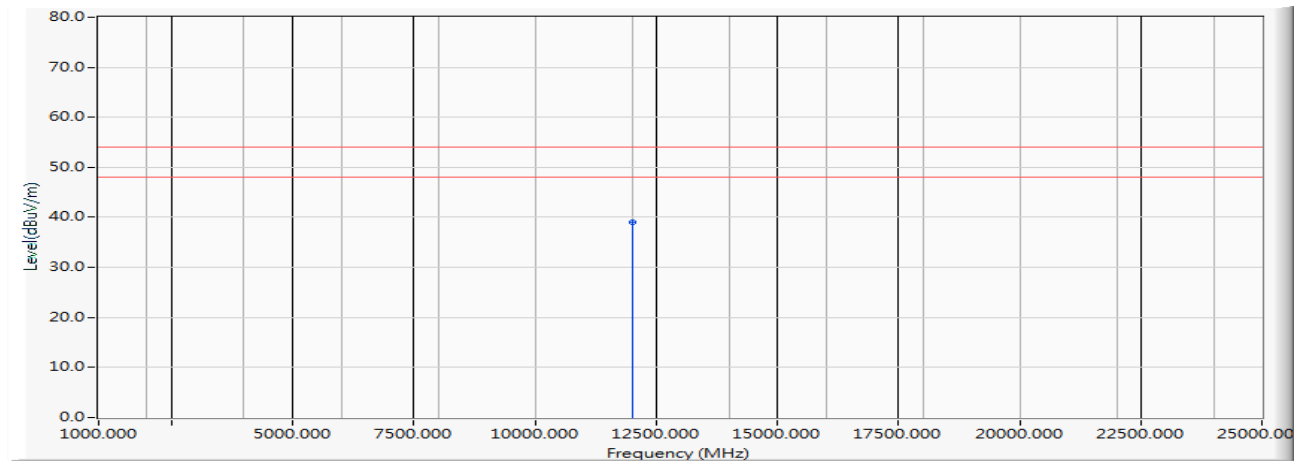


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3269.570	-6.676	45.050	38.374	-35.626	74.000	PEAK
2	4803.700	-0.209	42.590	42.381	-31.619	74.000	PEAK
3	7210.700	7.019	39.880	46.899	-27.101	74.000	PEAK
4	9609.050	12.543	36.340	48.884	-25.116	74.000	PEAK
5	* 12007.150	15.528	37.130	52.658	-21.342	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

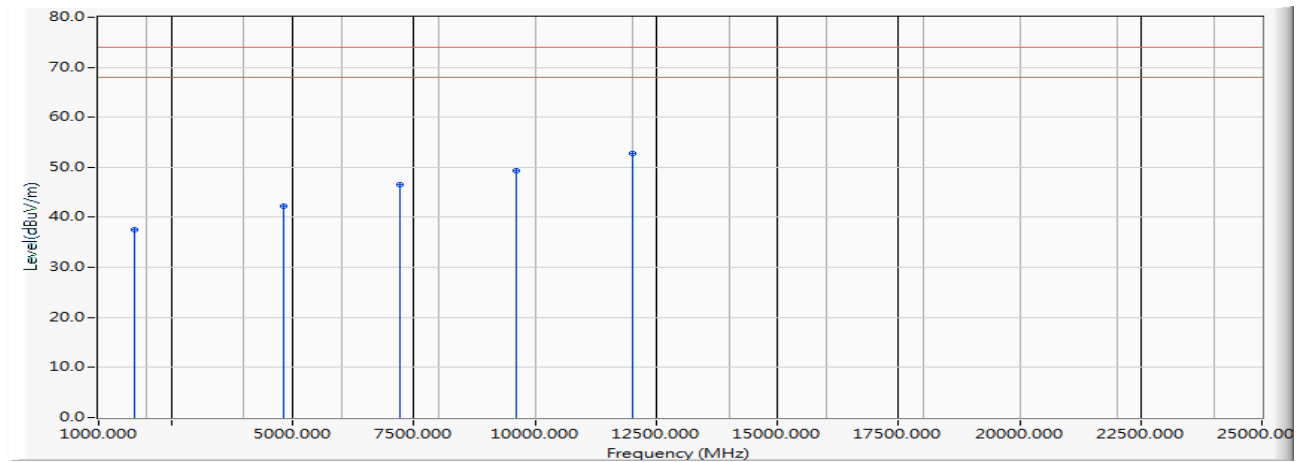


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	12007.150	15.528	23.550	39.078	-14.922	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

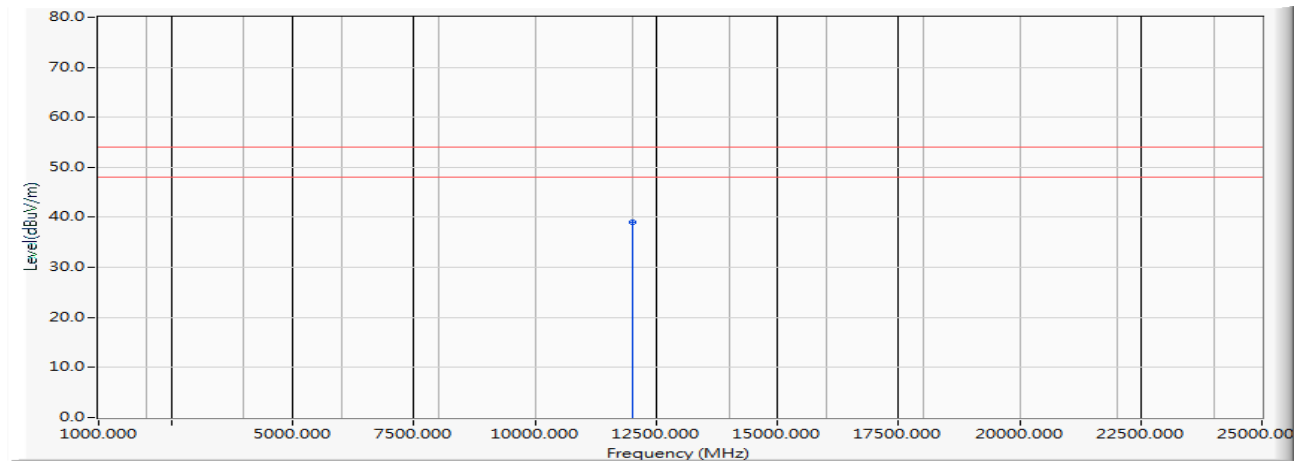


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	1738.130	-11.998	49.530	37.532	-36.468	74.000	PEAK
2	4803.110	-0.209	42.500	42.291	-31.709	74.000	PEAK
3	7209.100	7.002	39.570	46.572	-27.428	74.000	PEAK
4	9608.700	12.543	36.680	49.223	-24.777	74.000	PEAK
5	* 12007.100	15.528	37.130	52.658	-21.342	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

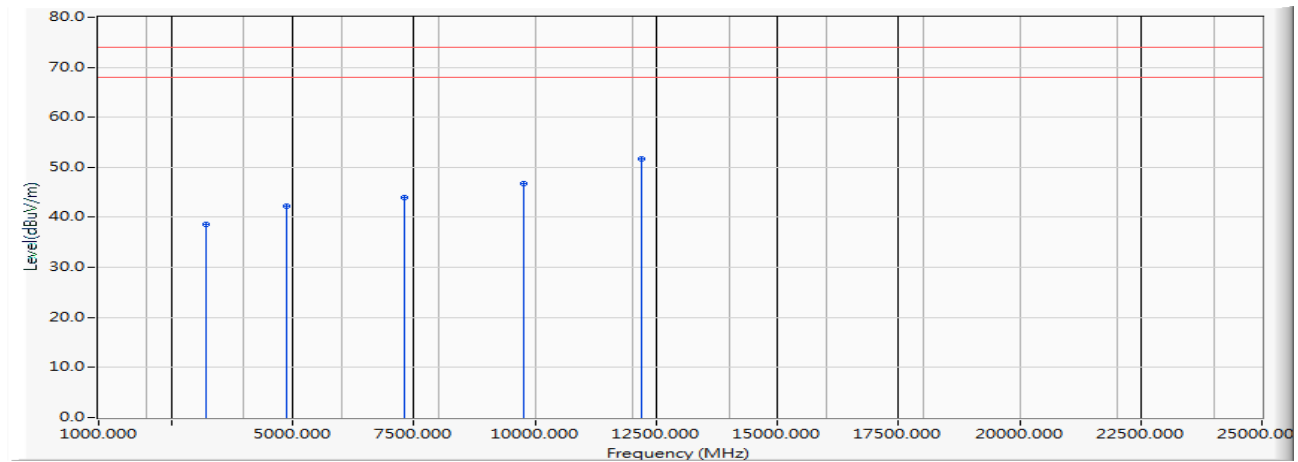


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	12007.100	15.528	23.460	38.988	-15.012	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz

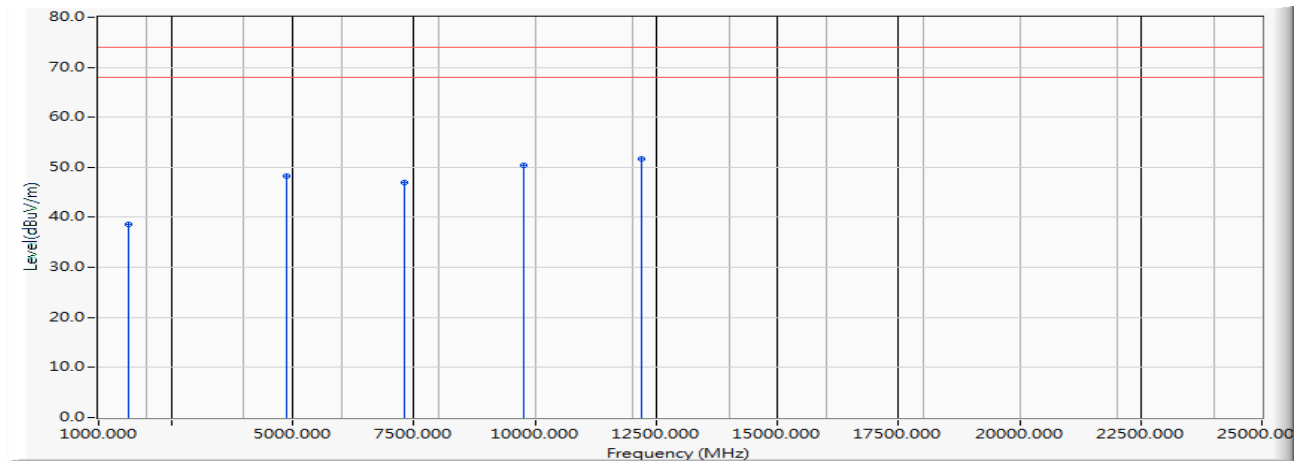


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3229.500	-6.749	45.350	38.600	-35.400	74.000	PEAK
2	4876.060	-0.130	42.430	42.300	-31.700	74.000	PEAK
3	7315.500	7.420	36.560	43.980	-30.020	74.000	PEAK
4	9755.000	12.859	33.840	46.698	-27.302	74.000	PEAK
5	* 12195.000	14.869	36.900	51.769	-22.231	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz

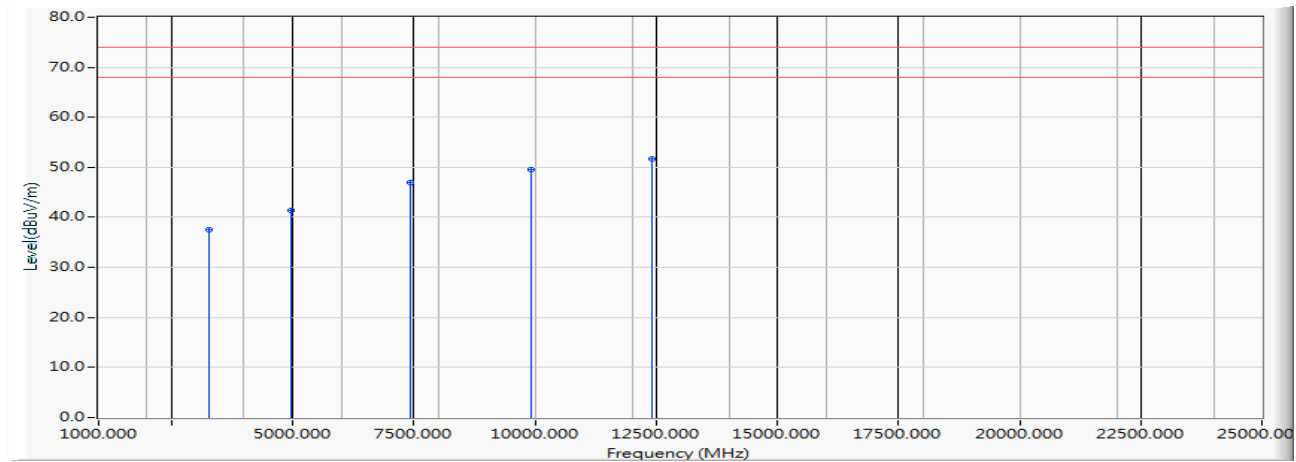


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	1611.340	-12.438	51.030	38.592	-35.408	74.000	PEAK
2	4878.360	-0.127	48.330	48.203	-25.797	74.000	PEAK
3	7322.020	7.443	39.630	47.074	-26.926	74.000	PEAK
4	9763.500	12.870	37.450	50.320	-23.680	74.000	PEAK
5	* 12196.900	14.862	36.860	51.722	-22.278	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2480MHz

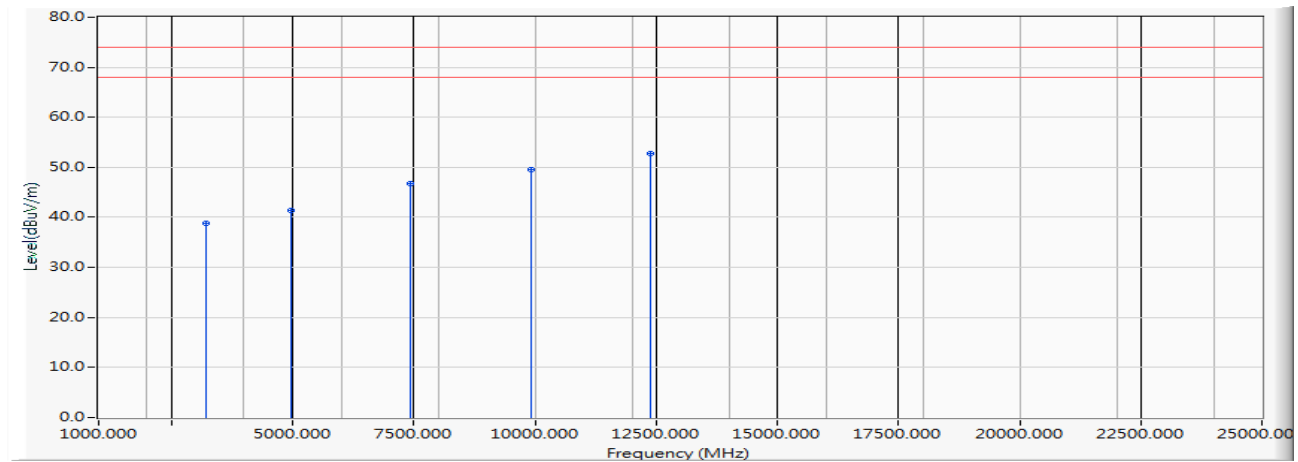


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3269.570	-6.676	44.220	37.544	-36.456	74.000	PEAK
2	4957.340	-0.037	41.340	41.303	-32.697	74.000	PEAK
3	7435.600	7.853	39.070	46.923	-27.077	74.000	PEAK
4	9916.300	13.085	36.420	49.506	-24.494	74.000	PEAK
5	* 12401.220	15.741	36.000	51.742	-22.258	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2480MHz

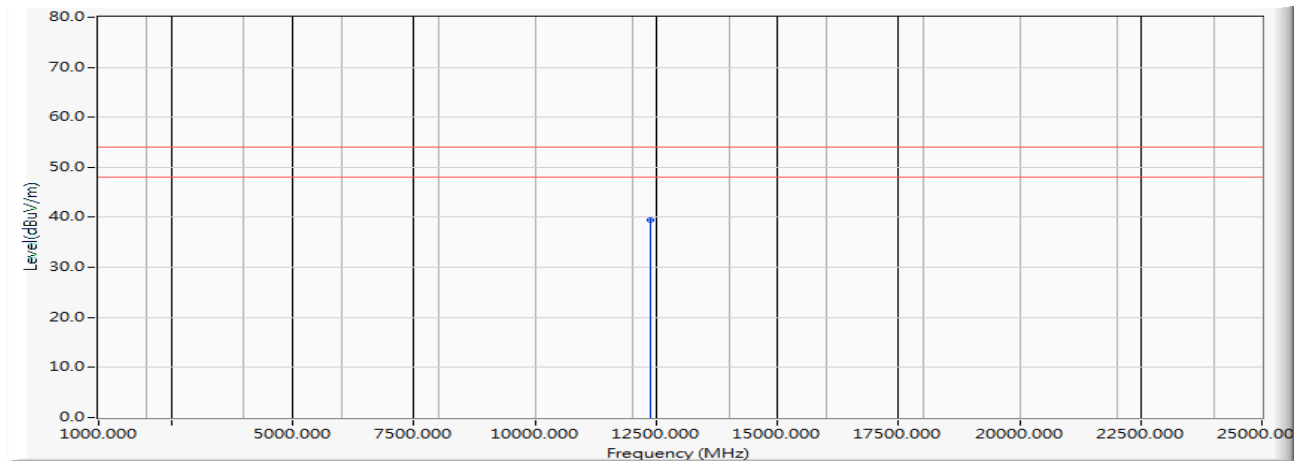


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3229.500	-6.749	45.550	38.800	-35.200	74.000	PEAK
2	4964.400	-0.029	41.510	41.481	-32.519	74.000	PEAK
3	7436.300	7.855	38.940	46.795	-27.205	74.000	PEAK
4	9915.600	13.085	36.560	49.645	-24.355	74.000	PEAK
5	* 12397.500	15.715	37.080	52.796	-21.204	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2480MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	12397.500	15.715	23.680	39.396	-14.604	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

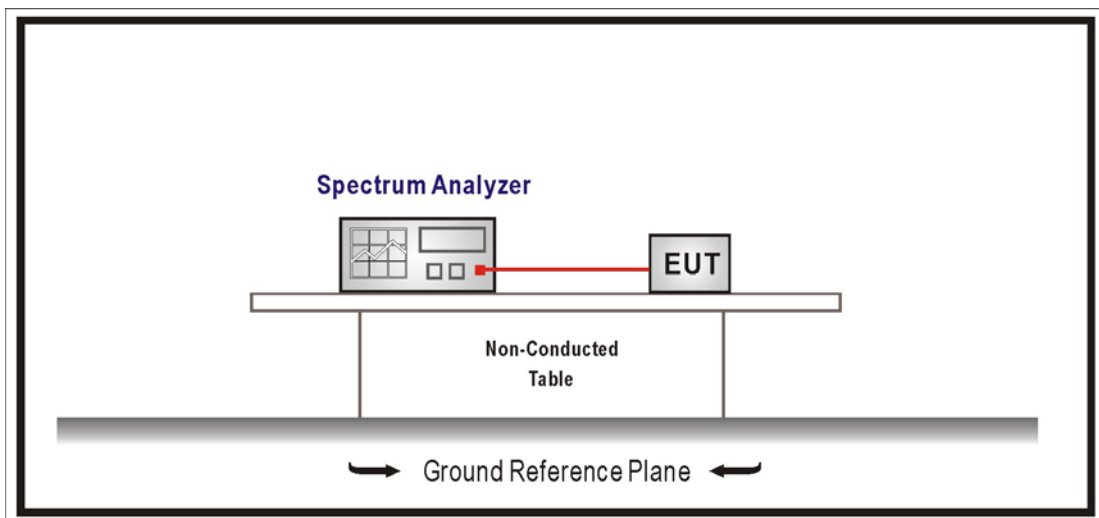
The following test equipment is used during the test:

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

5.2. Test Setup

RF Conducted Measurement:



5.3. 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 an RF conducted or 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)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

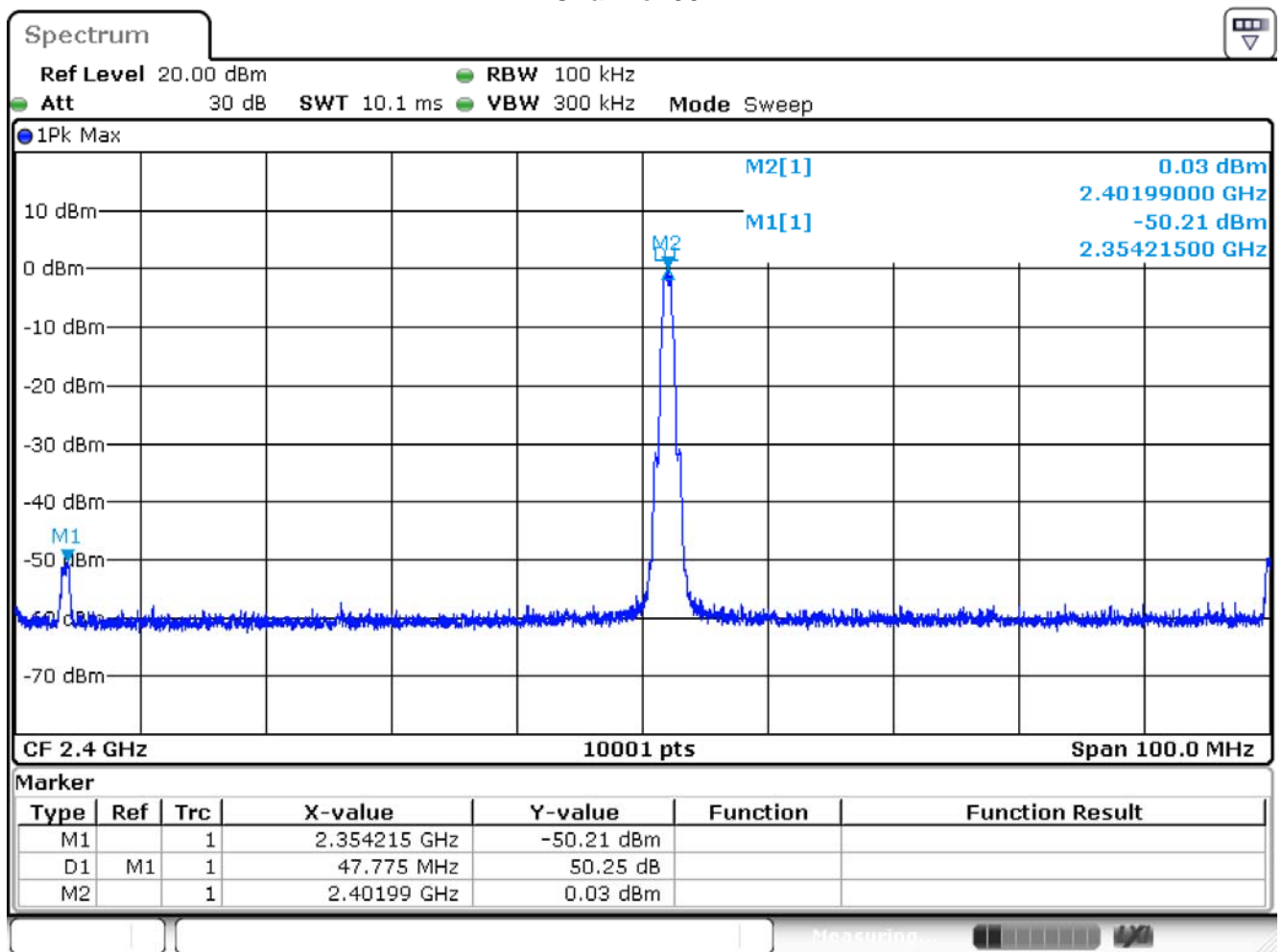
5.6. Test Result

Product	Verizon Mesh Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2017/11/05	Test Site	SR10-H

GFSK

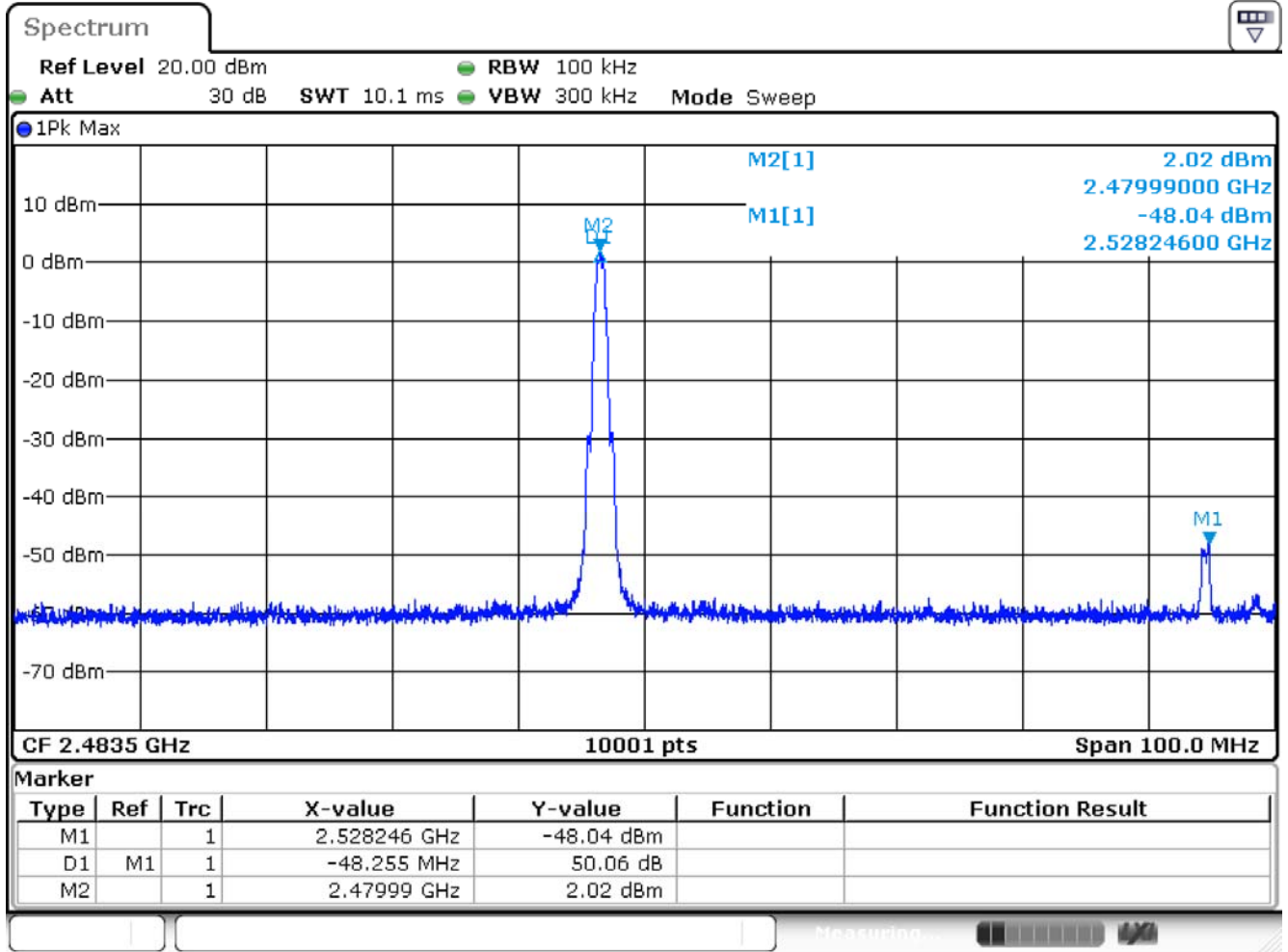
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	50.250	≥ 20	Pass
39	2480	50.060	≥ 20	Pass

Channel 00



Date: 5.NOV.2017 08:37:28

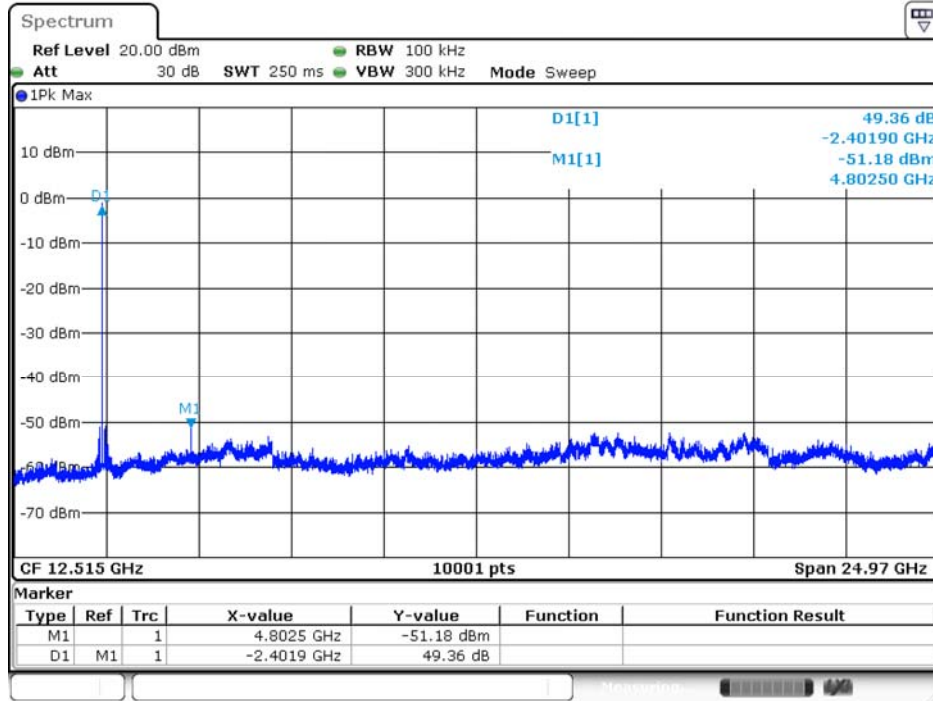
Channel 39



Date: 5.NOV.2017 08:35:55

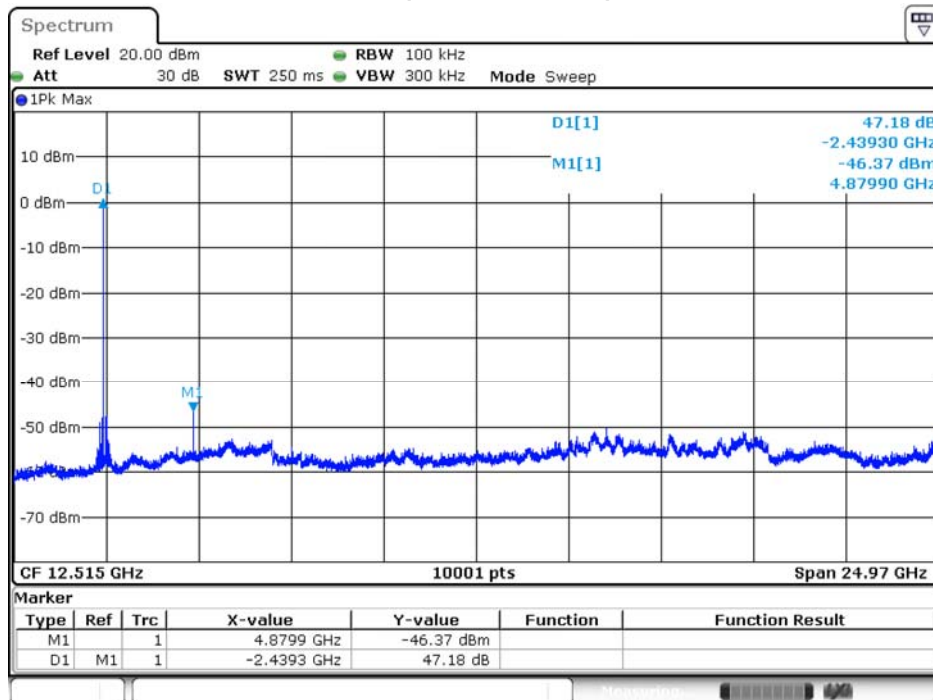
Product	Verizon Mesh Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2017/11/05	Test Site	SR10-H

Channel 00 (30MHz-25GHz)- GFSK



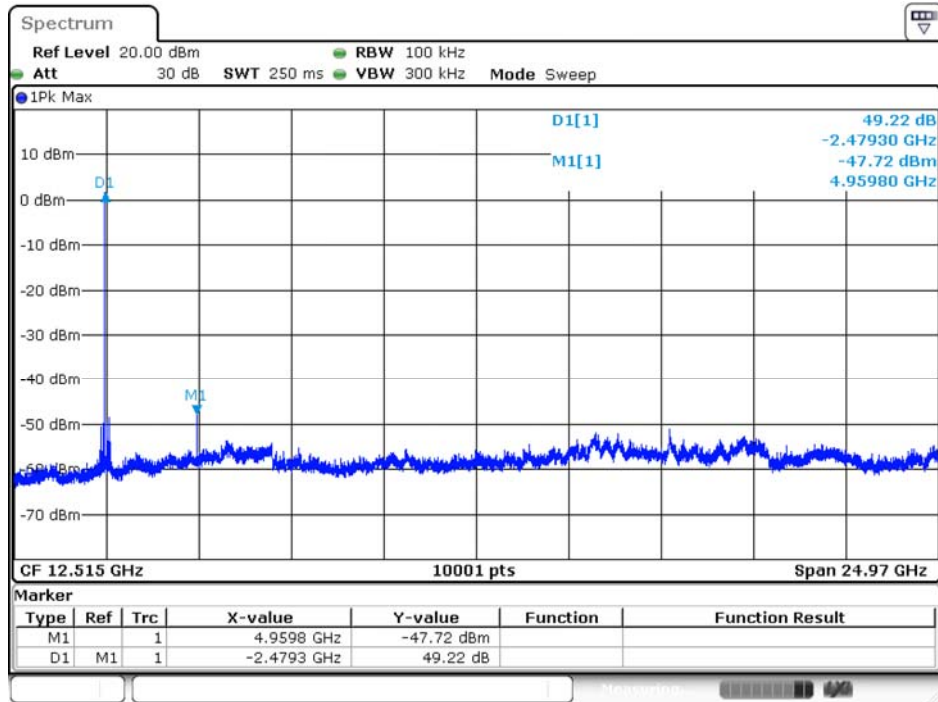
Date: 5.NOV.2017 08:24:45

Channel 19 (30MHz-25GHz)- GFSK



Date: 5.NOV.2017 08:33:02

Channel 39 (30MHz-25GHz)- GFSK



Date: 5.NOV.2017 08:33:54

6. Band Edge

6.1. Test Equipment

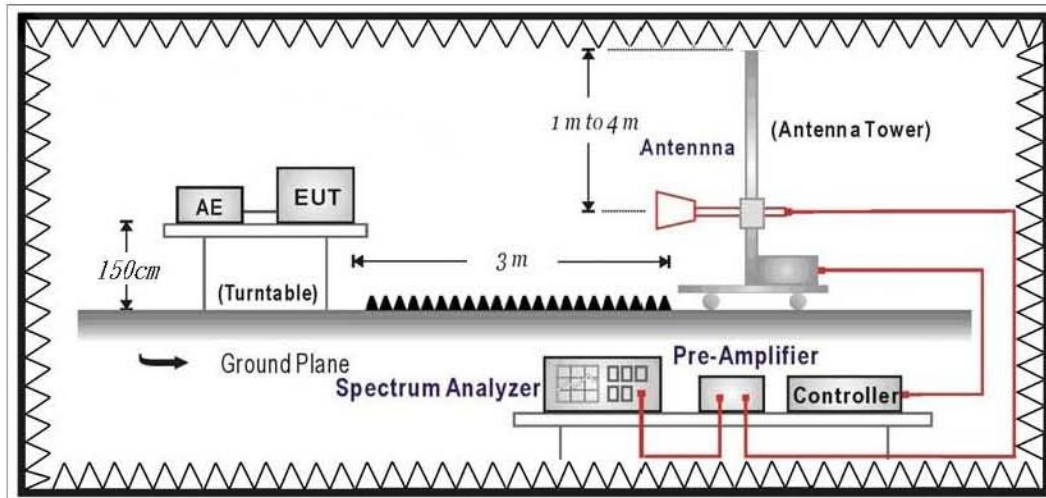
The following test equipment are used during the test:

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	202	2017/02/15	2018/02/14
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25

6.2. Test Setup

RF Radiated Measurement:



6.3. 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.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 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 can move up and down between 1 meter and 4 meters to find out the maximum emission level.

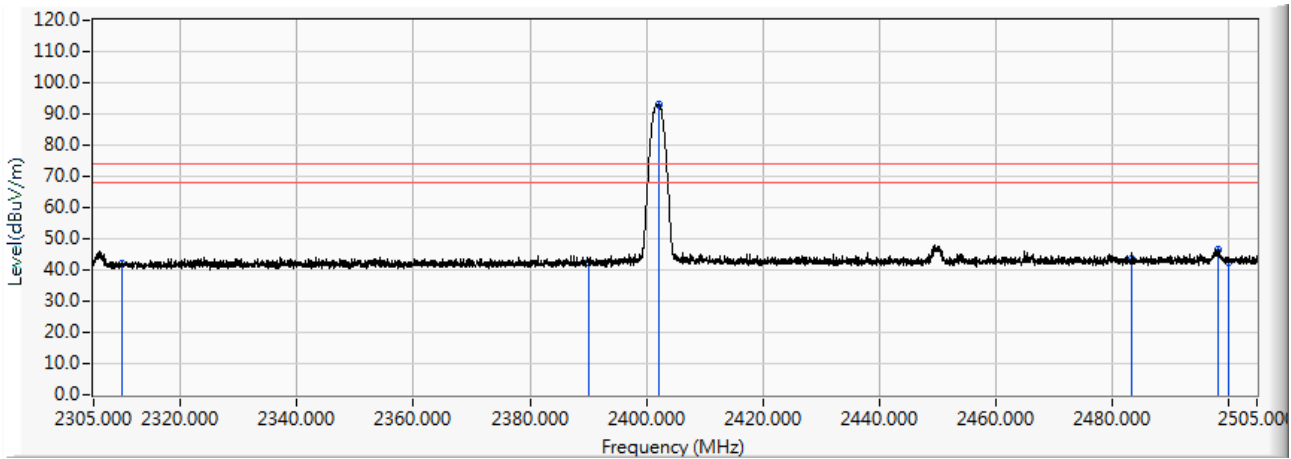
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

6.6. Test Result

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

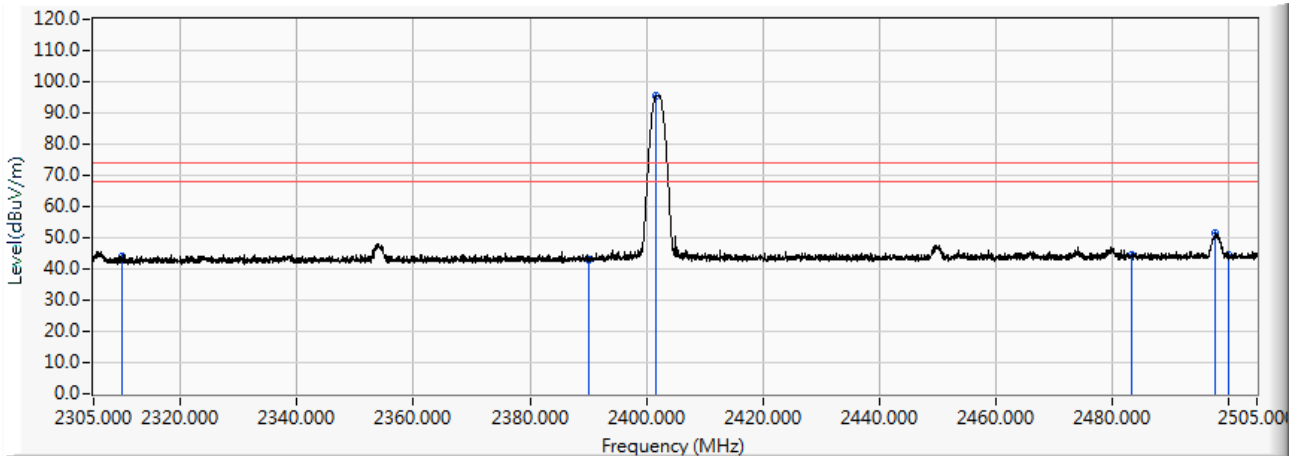


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	30.863	41.878	-32.122	74.000	PEAK
2	2390.000	11.544	31.028	42.572	-31.428	74.000	PEAK
3	* 2402.179	11.626	81.198	92.823	18.823	74.000	PEAK
4	2483.500	12.172	31.390	43.562	-30.438	74.000	PEAK
5	2498.359	12.266	34.061	46.328	-27.672	74.000	PEAK
6	2500.000	12.274	30.191	42.466	-31.534	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2402MHz

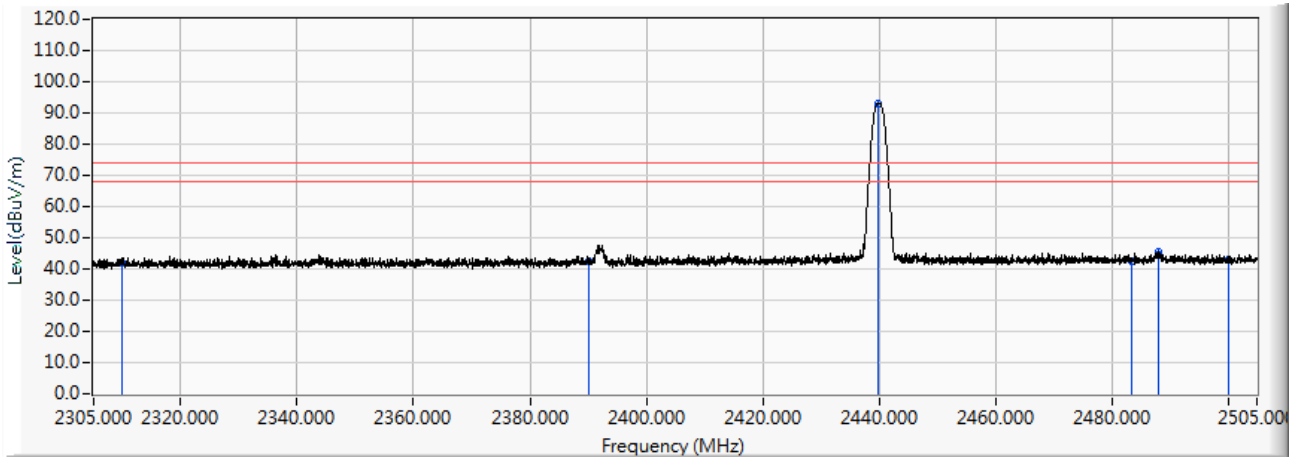


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	32.960	43.975	-30.025	74.000	PEAK
2	2390.000	11.544	31.663	43.207	-30.793	74.000	PEAK
3	* 2401.739	11.622	83.835	95.457	21.457	74.000	PEAK
4	2483.500	12.172	32.255	44.427	-29.573	74.000	PEAK
5	2497.919	12.265	39.393	51.658	-22.342	74.000	PEAK
6	2500.000	12.274	32.342	44.617	-29.383	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz

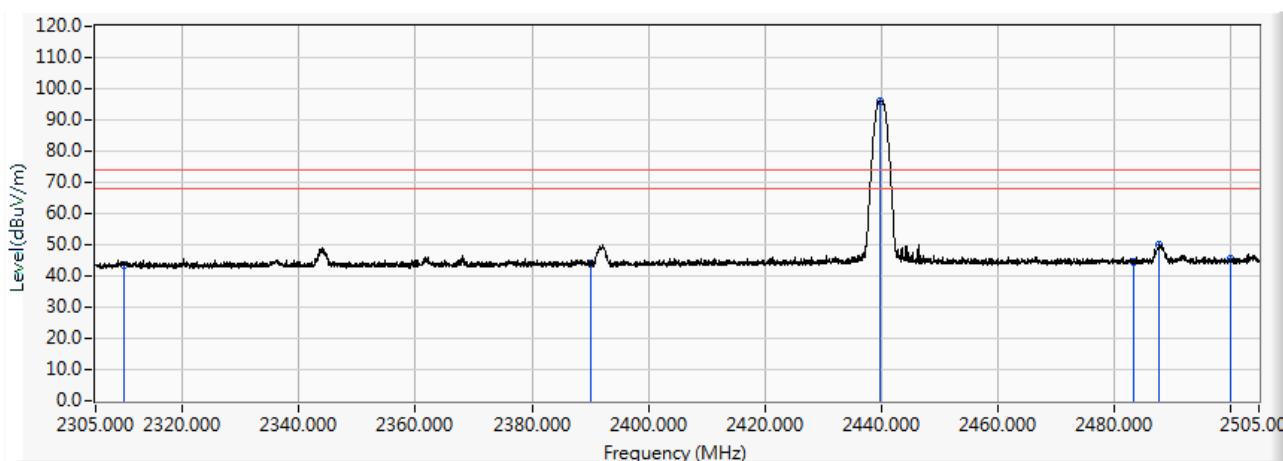


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	30.941	41.956	-32.044	74.000	PEAK
2	2390.000	11.544	31.143	42.687	-31.313	74.000	PEAK
3	* 2439.747	11.878	81.041	92.919	18.919	74.000	PEAK
4	2483.500	12.172	30.527	42.699	-31.301	74.000	PEAK
5	2488.117	12.203	33.192	45.395	-28.605	74.000	PEAK
6	2500.000	12.274	30.821	43.096	-30.904	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2440MHz

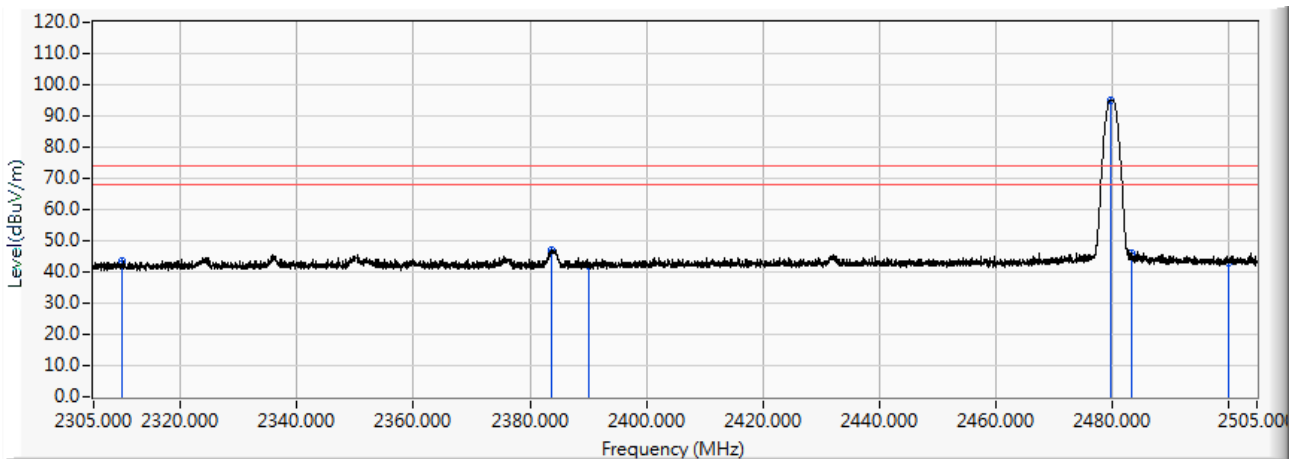


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	32.610	43.625	-30.375	74.000	PEAK
2	2390.000	11.544	32.597	44.141	-29.859	74.000	PEAK
3	* 2439.747	11.878	84.234	96.112	22.112	74.000	PEAK
4	2483.500	12.172	32.130	44.302	-29.698	74.000	PEAK
5	2487.876	12.201	37.561	49.762	-24.238	74.000	PEAK
6	2500.000	12.274	33.107	45.382	-28.618	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2480MHz

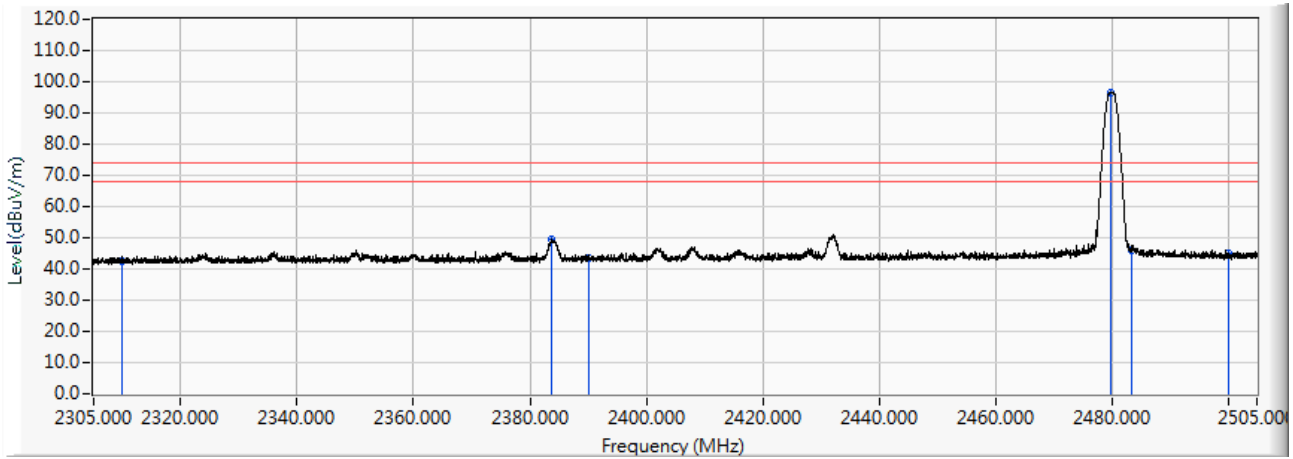


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	32.461	43.476	-30.524	74.000	PEAK
2	2383.696	11.502	35.303	46.805	-27.195	74.000	PEAK
3	2390.000	11.544	30.355	41.899	-32.101	74.000	PEAK
4	* 2479.755	12.147	82.927	95.074	21.074	74.000	PEAK
5	2483.500	12.172	33.643	45.815	-28.185	74.000	PEAK
6	2500.000	12.274	30.556	42.831	-31.169	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : DEKRA Taiwan CB2-H	Time : 2017/11/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 1: Transmit Mode802.15.1_BLE_2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	11.014	31.483	42.498	-31.502	74.000	PEAK
2	2383.776	11.503	38.149	49.652	-24.348	74.000	PEAK
3	2390.000	11.544	31.803	43.347	-30.653	74.000	PEAK
4	* 2479.755	12.147	84.596	96.743	22.743	74.000	PEAK
5	2483.500	12.172	33.632	45.804	-28.196	74.000	PEAK
6	2500.000	12.274	32.889	45.164	-28.836	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth & DTS Bandwidth

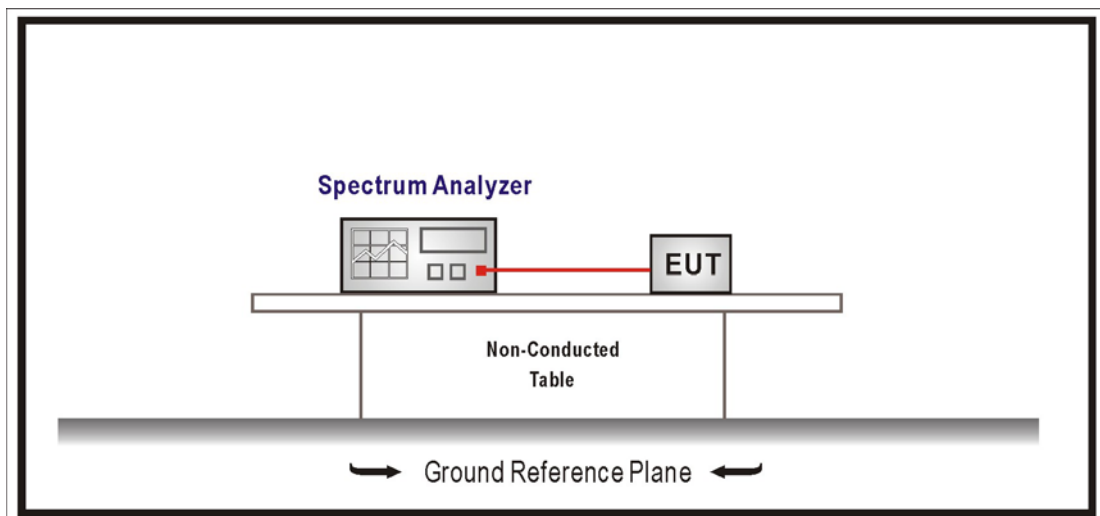
7.1. Test Equipment

The following test equipment is used during the test:

Occupied Bandwidth & DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

7.2. Test Setup



7.3. Limits

The 6 dB bandwidth: ≥ 500 kHz.

Occupied Bandwidth: NA

7.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1% of EBW, Span greater than RBW.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

7.6. Test Result

Product	Verizon Mesh Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2017/11/05	Test Site	SR10-H

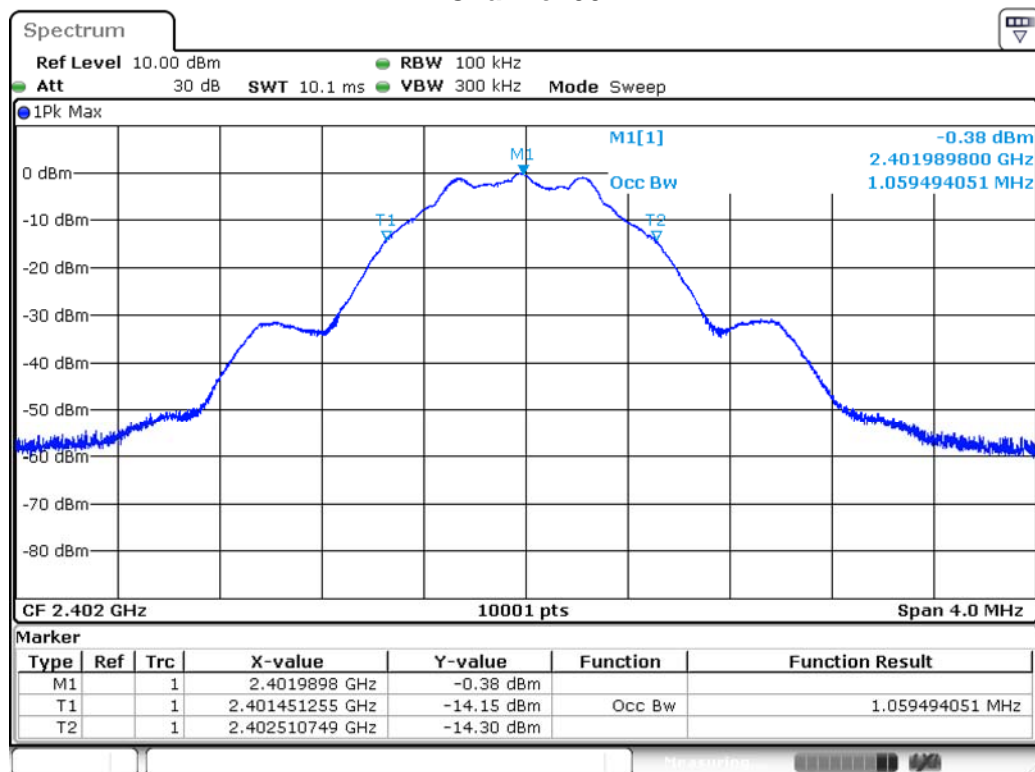
Occupied Bandwidth:

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.059	--	Pass
19	2440	1.059	--	Pass
39	2480	1.059	--	Pass

DTS Bandwidth:

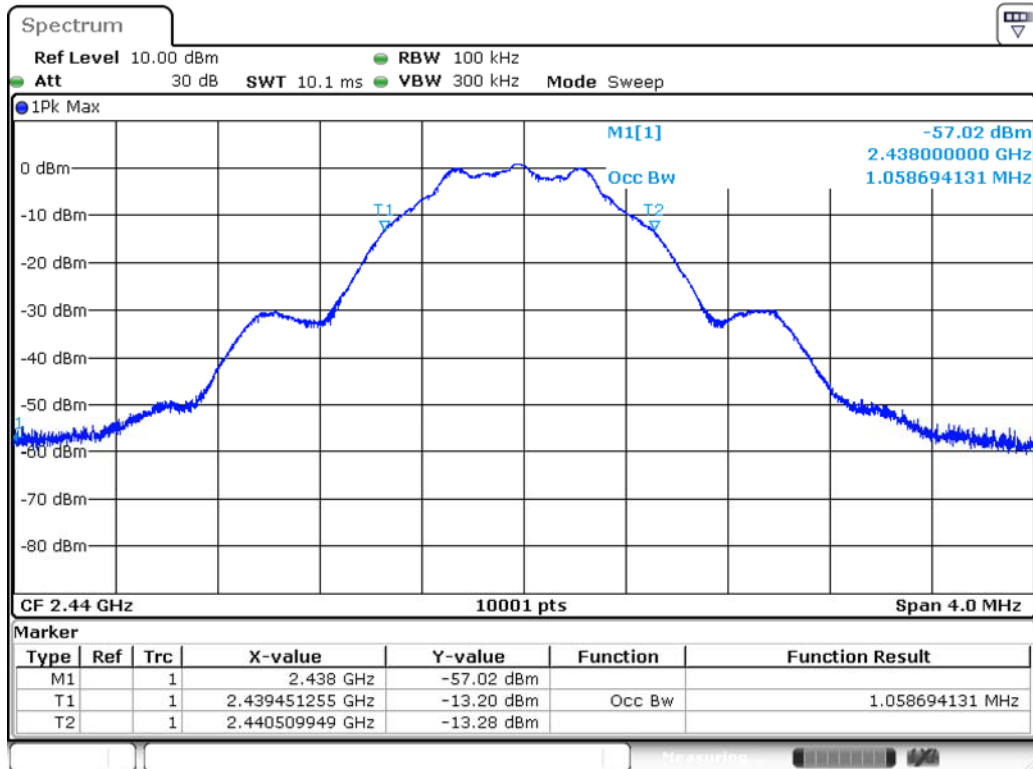
Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)	Result
00	2402	653	≥ 500	Pass
19	2440	652	≥ 500	Pass
39	2480	655	≥ 500	Pass

Channel 00



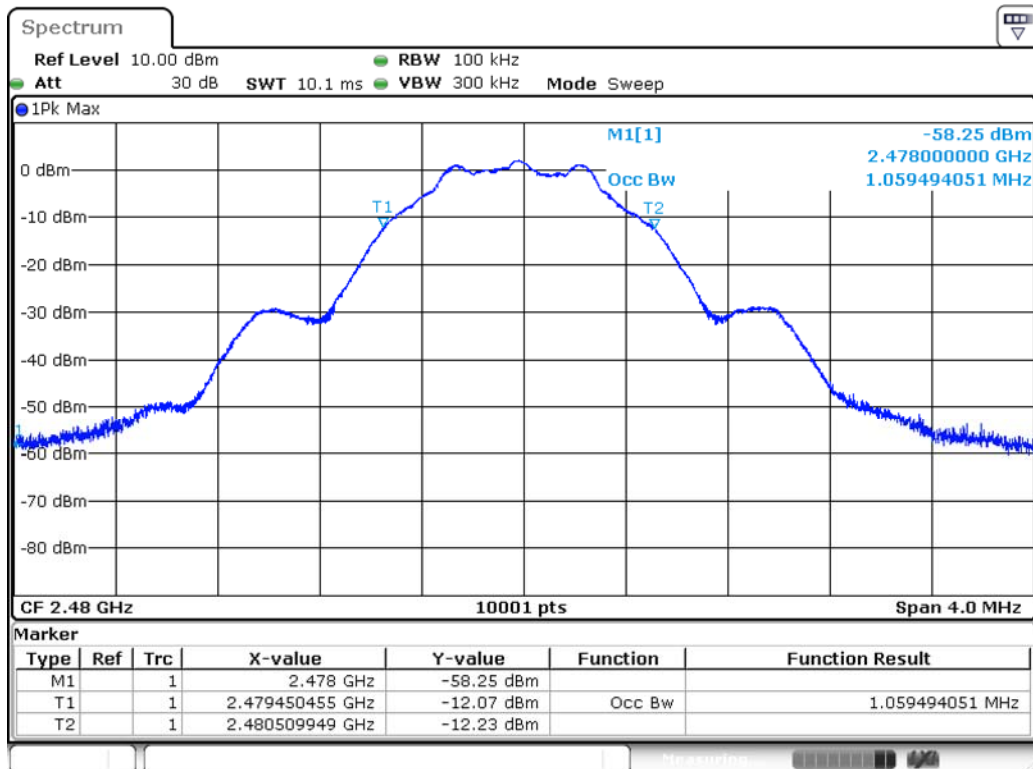
Date: 5.NOV.2017 08:40:01

Channel 19



Date: 5.NOV.2017 08:40:28

Channel 39



Date: 5.NOV.2017 08:41:03

8. Power Density

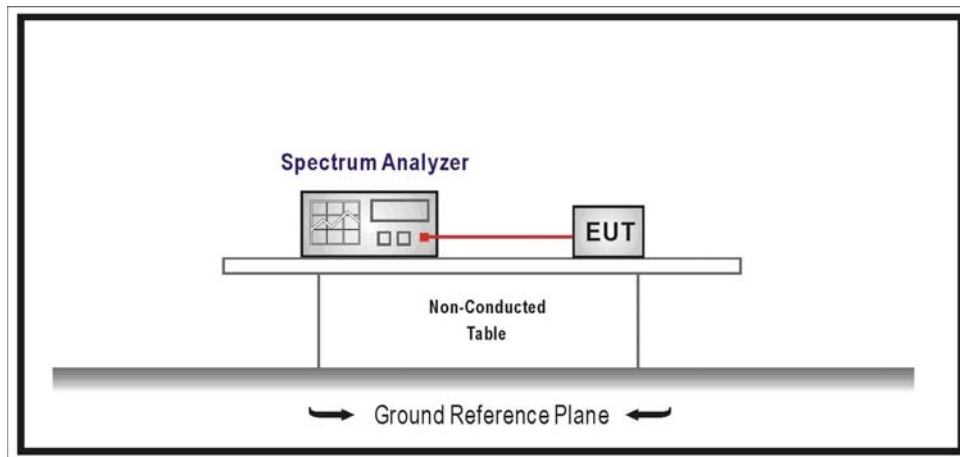
8.1. Test Equipment

The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

8.2. Test Setup



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

8.6. Uncertainty

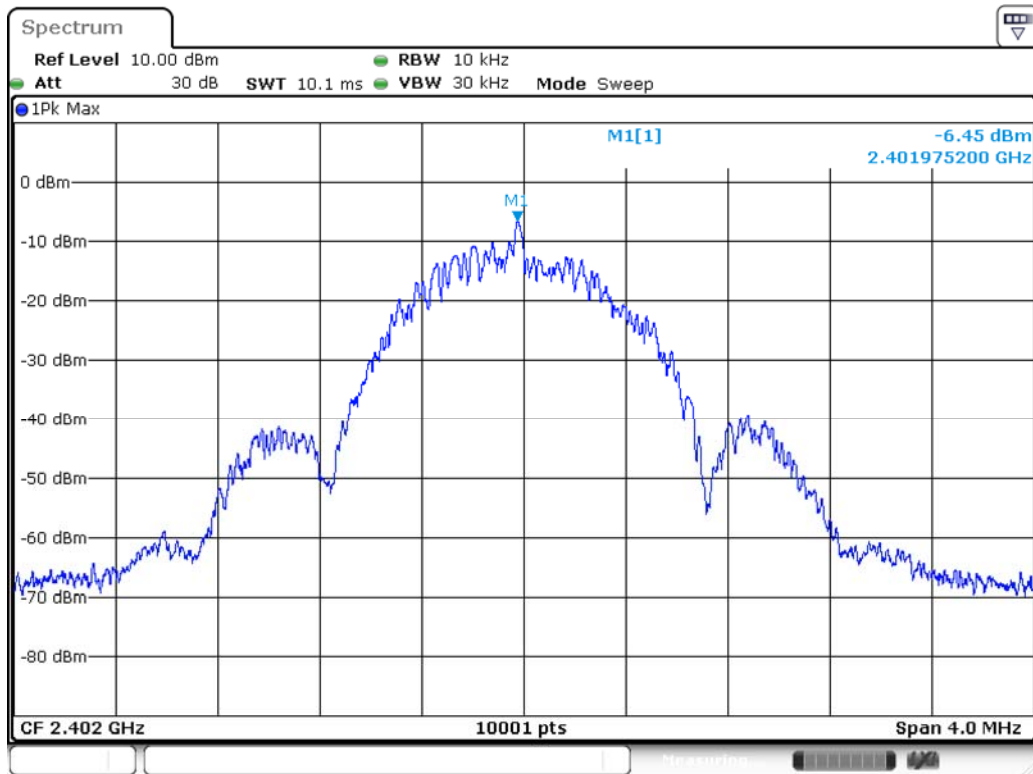
The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

8.7. Test Result

Product	Verizon Mesh Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2017/11/05	Test Site	SR7

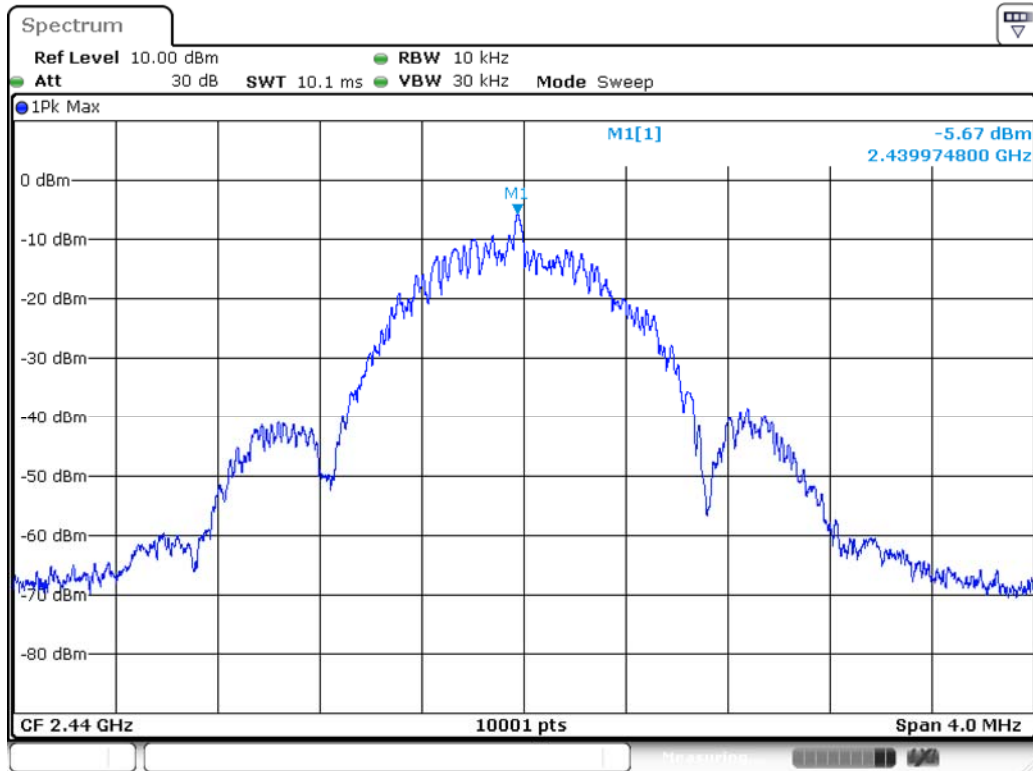
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
00	2402	-6.450	≤ 8	Pass
19	2440	-5.670	≤ 8	Pass
39	2480	-4.630	≤ 8	Pass

Channel 00



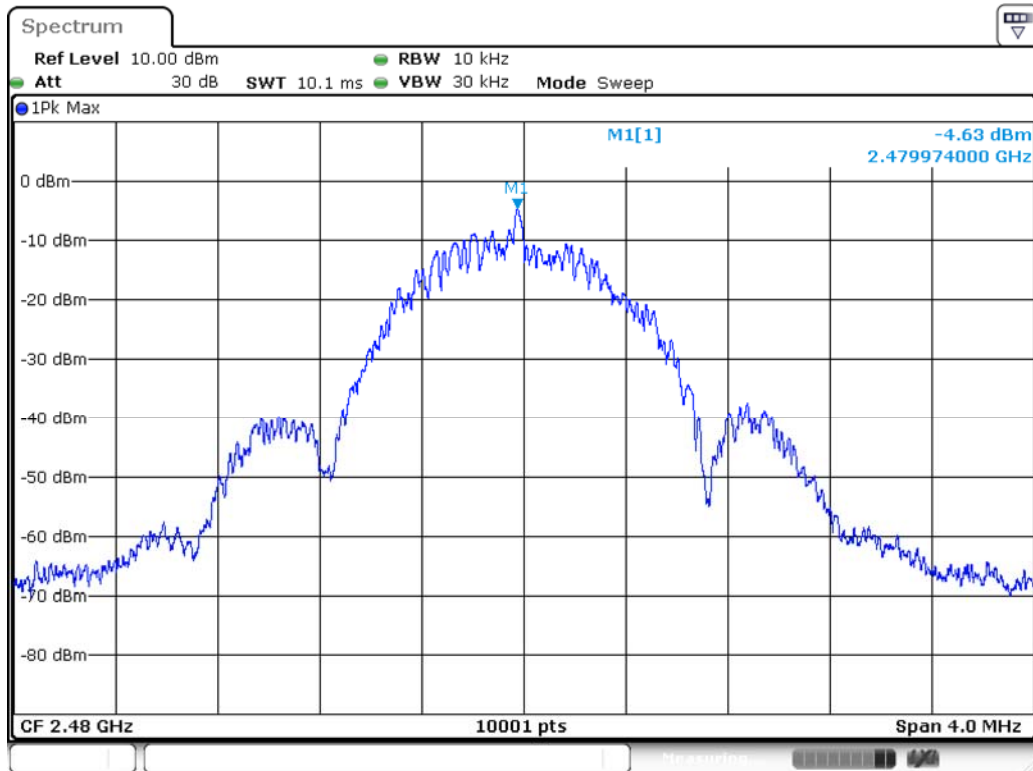
Date: 5.NOV.2017 08:45:22

Channel 19



Date: 5.NOV.2017 08:45:58

Channel 39



Date: 5.NOV.2017 08:46:39