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TTE Technology, Inc.

TEST REPORT

SCOPE OF WORK
FCC TESTING–RC684, RC580PRO

REPORT NUMBER
210428035SZN-002

ISSUE DATE **[REVISED DATE]**

25 May 2021 [----------]

PAGES
66

DOCUMENT CONTROL NUMBER
FCC ID 247_b
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TEST REPORT

Intertek Report No.: 210428035SZN-002

TTE Technology, Inc.

Application
For
Certification

FCC ID: W8URC684

Remote Control

Model: RC684, RC580Pro

2.4GHz Wi-Fi Transceiver

Report No.: 210428035SZN-002

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-19]

Prepared and Checked by:

Allen Qin
Engineer

Approved by:

Peter Kang
Sr. Technical Supervisor
Date: 25 May 2021

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant ___X___ Class II Change _____

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No ___X___

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No ___X___

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-19] Edition] provision.

Report prepared by:

Allen Qin
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1.0 Summary of Test Results

Applicant: TTE Technology, Inc.
Applicant Address: 1860 Compton Ave, Corona, CA 92881, USA
Manufacturer: TTE Technology, Inc.
Manufacturer Address: 1860 Compton Ave, Corona, CA 92881, USA

Model: RC684, RC580Pro
FCC ID: W8URC684

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a Remote Control with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. The EUT is powered by DC 3V by 2xAAA batteries. For more detailed features description, please refer to the user's manual.

Type of Modulation: BPSK, QPSK, 16QAM, 64QAM for OFDM; CCK, DQPSK, DBPSK for DSSS.
Antenna Type: Integral Antenna
Antenna Gain: 2.5dBi

The Model: RC580Pro is the same as the Model: RC684 in hardware and electrical aspect. The difference in model number serves as marketing strategy.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:
DTS- Part 15 Digital Transmission Systems (2.4GHz Wi-Fi transmitter portion).
For the 5GHz WIFI function was tested and demonstrated in report 210428035SZN-003.

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 3V by 2xAAA batteries during the test.

On 802.11b/g/n-HT20/n-HT40 mode, only one antenna is used, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT and transmitting antenna was centered on the turntable.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:
During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

3.3 Special Accessories

N/A.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by TTE Technology, Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
NA	NA	NA

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021 Model: RC684

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 2.5dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	5.45	3.51
Middle Channel: 2437	5.50	3.55
High Channel: 2462	5.45	3.50

IEEE 802.11g (Antenna Gain = 2.5dBi) (16QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	5.44	3.50
Middle Channel: 2437	5.63	3.66
High Channel: 2462	5.41	3.48

IEEE 802.11n-HT20 (Antenna Gain = 2.5dBi) (64QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	4.76	2.99
Middle Channel: 2437	4.79	3.01
High Channel: 2462	4.56	2.86

IEEE 802.11n-HT40 (Antenna Gain = 2.5 dBi) (64QAM, 13.5Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2422	4.99	3.16
Middle Channel: 2437	5.00	3.16
High Channel: 2452	4.47	2.80

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 5.63dBm
EUT max. E.I.R.P = 5.63dBm + 2.5dBi = 8.13dBm = 6.50mW

For RF Exposure, the information is saved with filename: RF exposure.pdf.

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021 Model: RC684

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	10.080
2437	10.110
2462	10.080

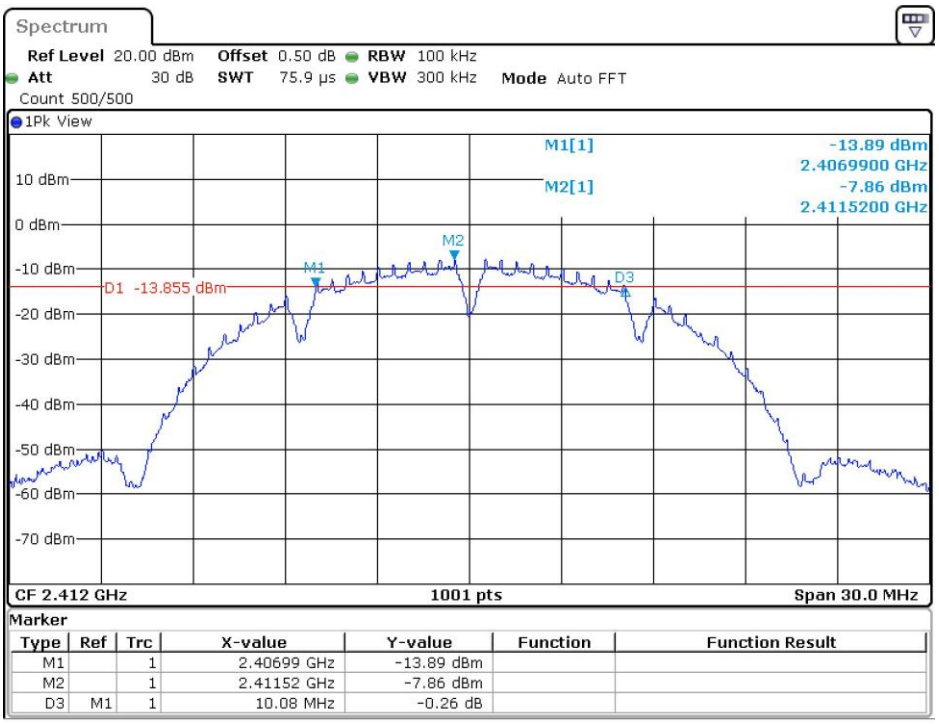
IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	16.560
2437	16.560
2462	16.590

IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	17.640
2437	17.700
2462	17.700

IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2422	36.420
2437	36.420
2452	36.480

The test plots are attached as below.

802.11b



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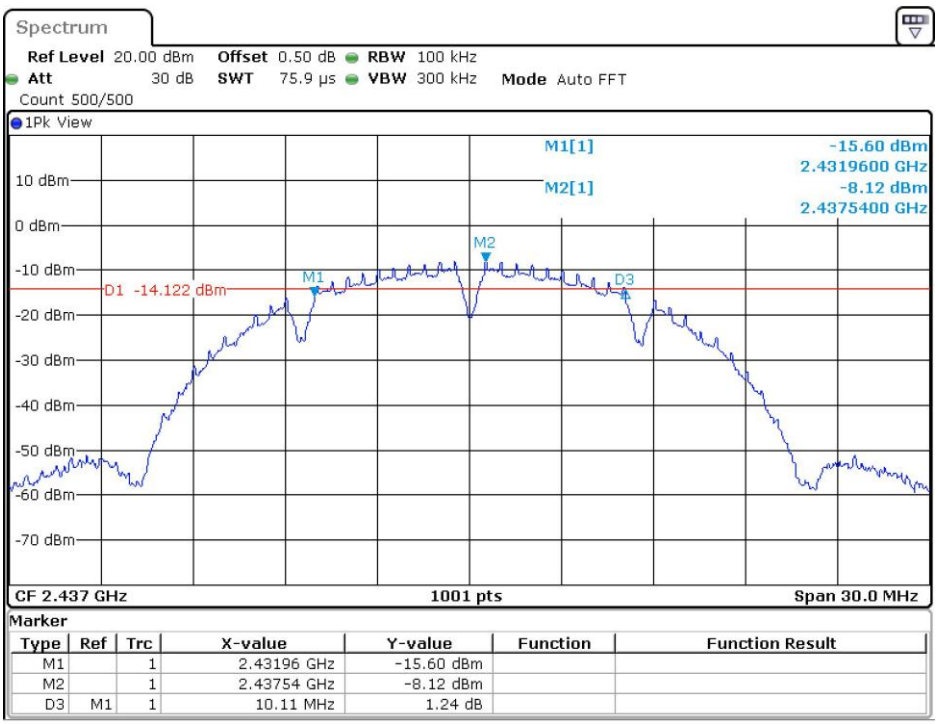

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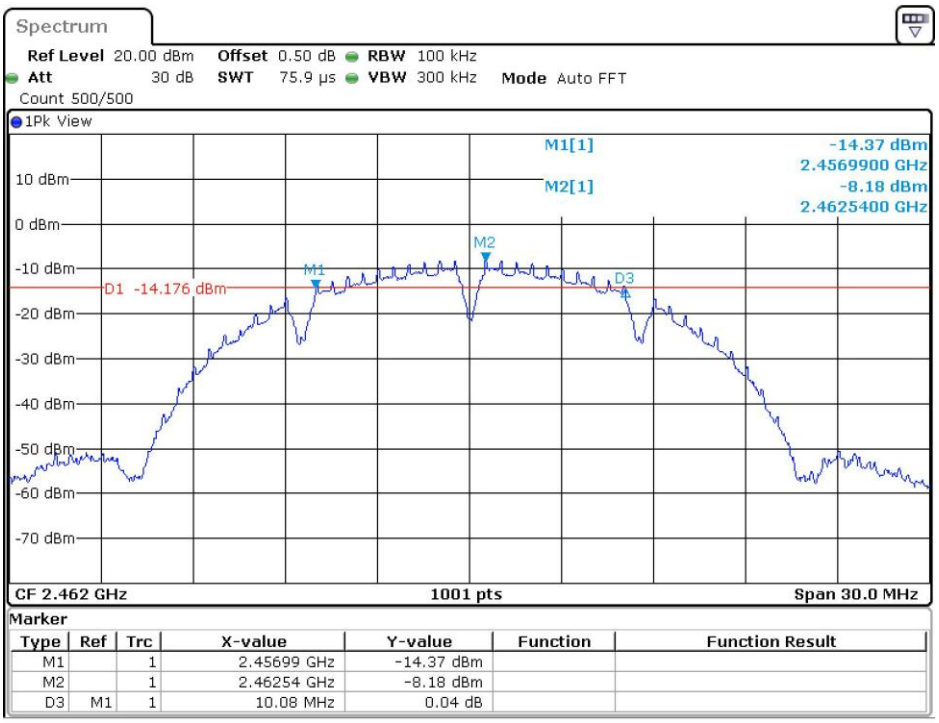

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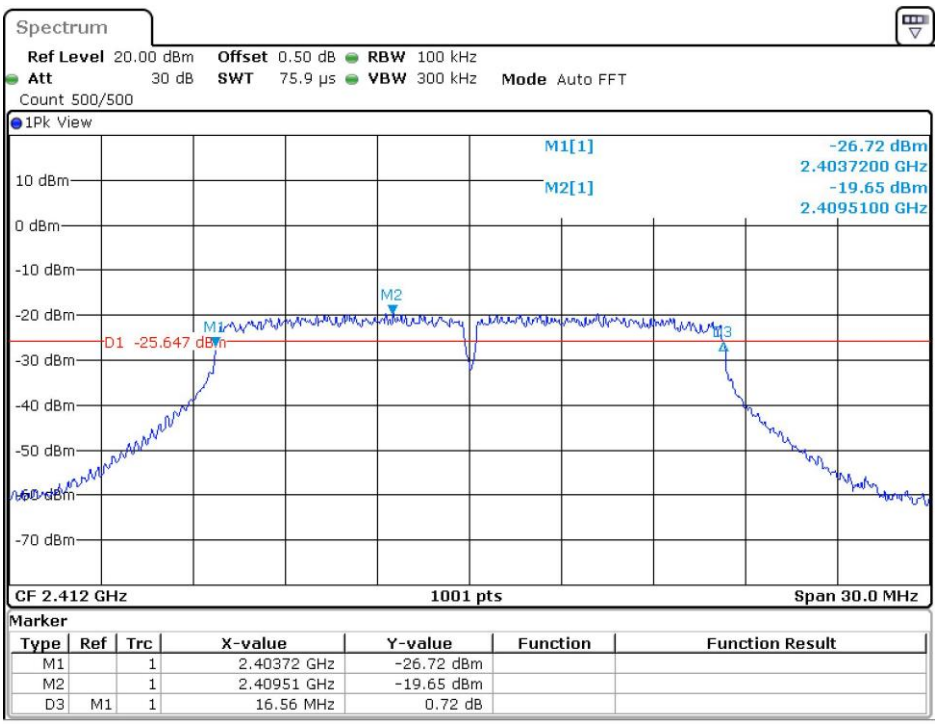
802.11g



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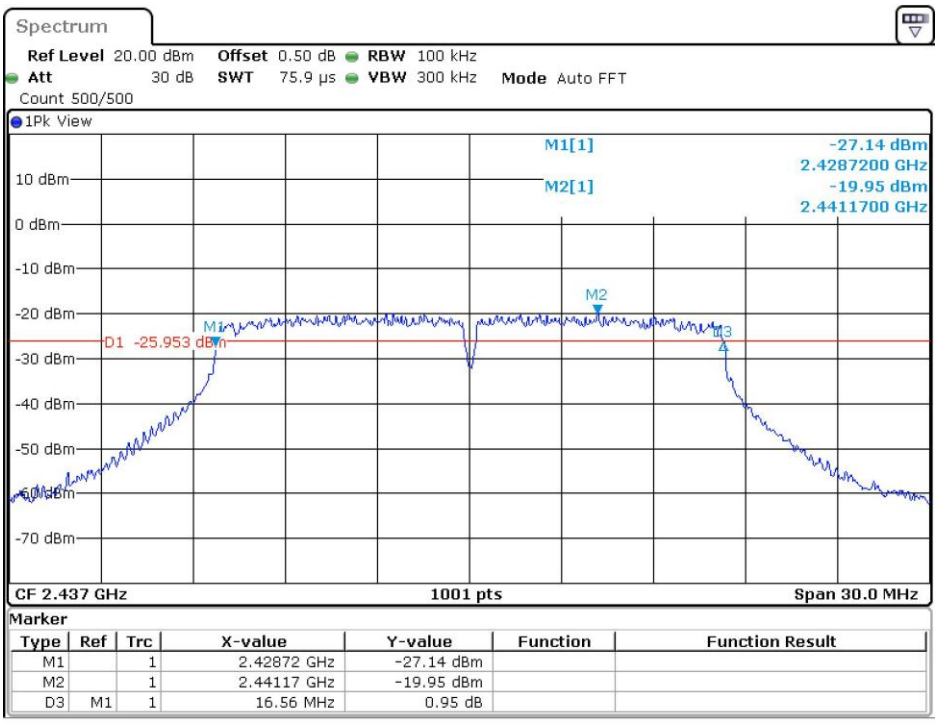

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42872 GHz	-27.14 dBm		
M2		1	2.44117 GHz	-19.95 dBm		
D3	M1	1	16.56 MHz	0.95 dB		

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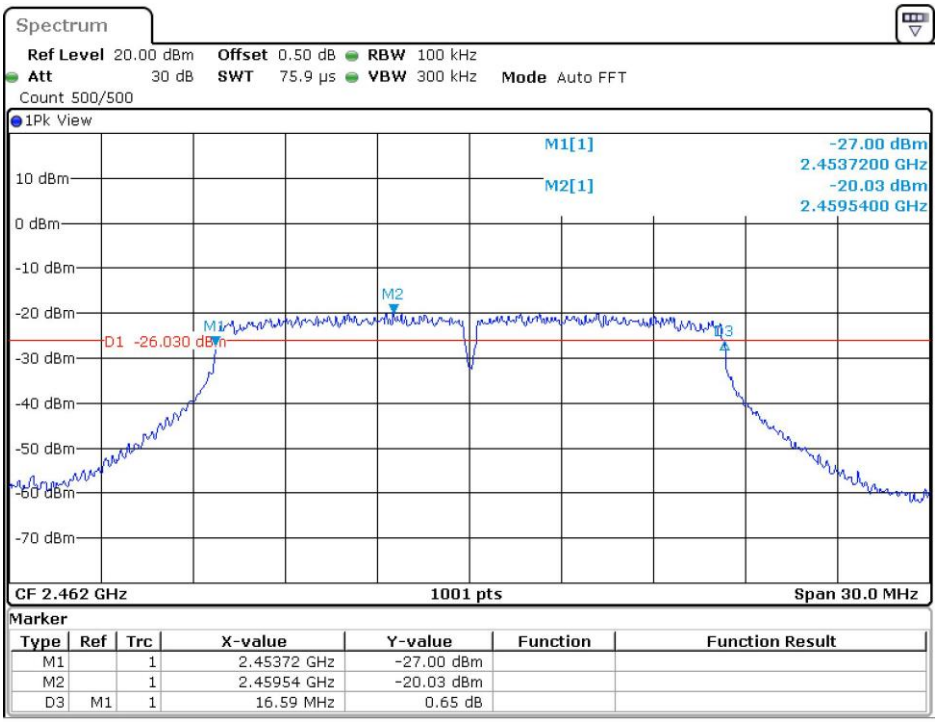
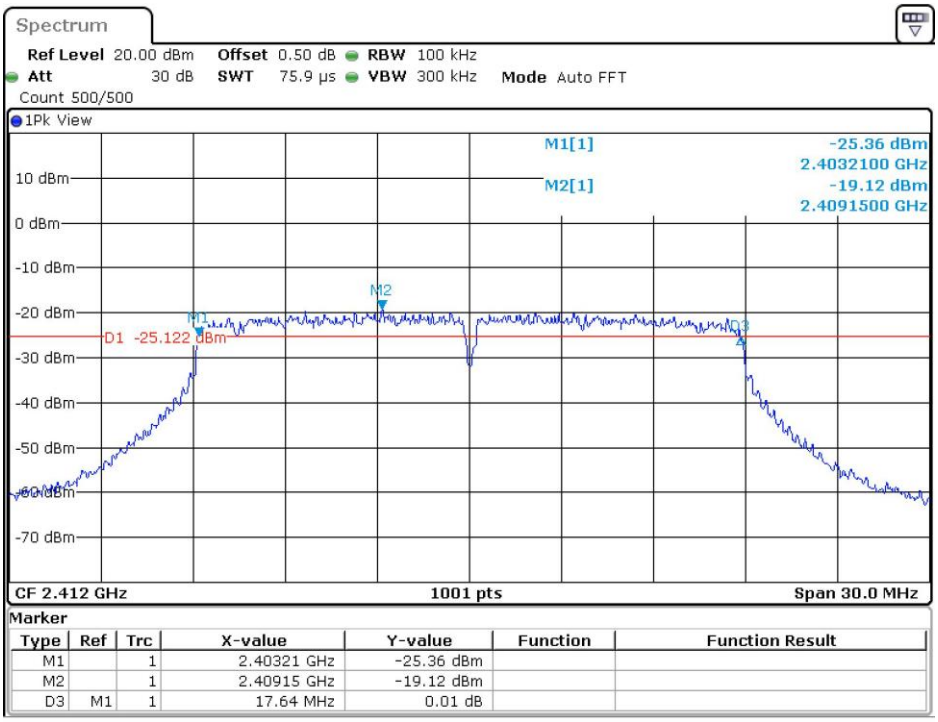


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45372 GHz	-27.00 dBm		
M2		1	2.45954 GHz	-20.03 dBm		
D3	M1	1	16.59 MHz	0.65 dB		

Date: 6.MAY.2021 16:53:44

802.11n-HT20



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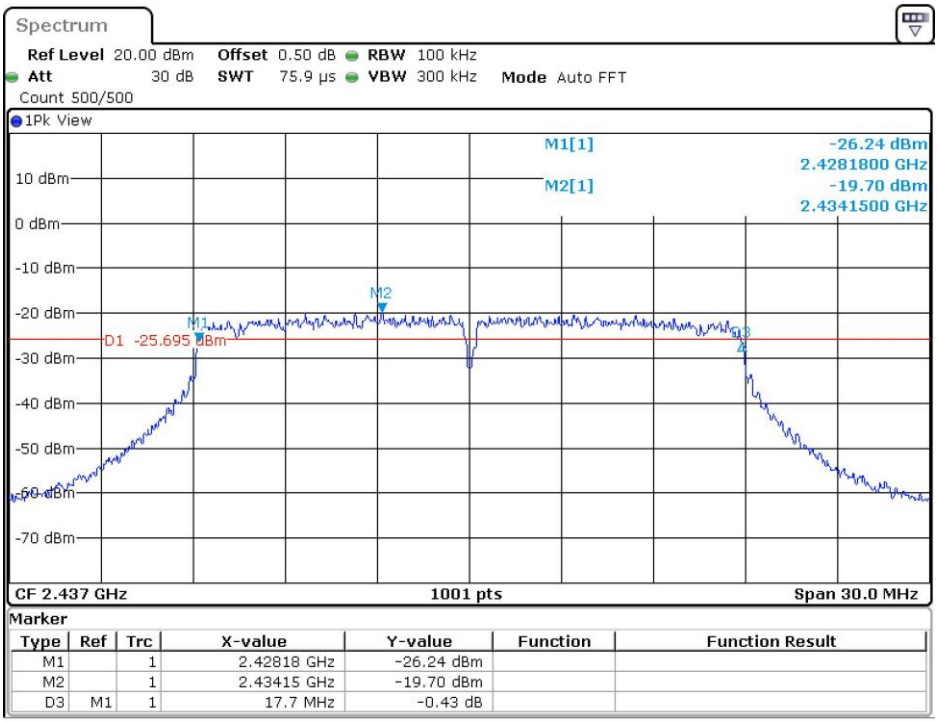

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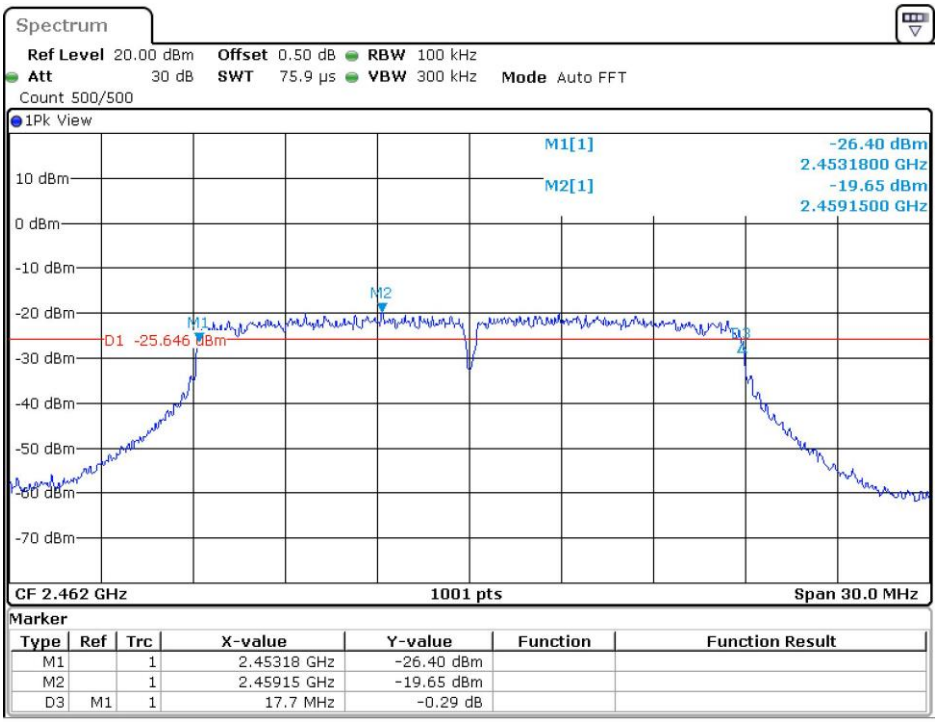

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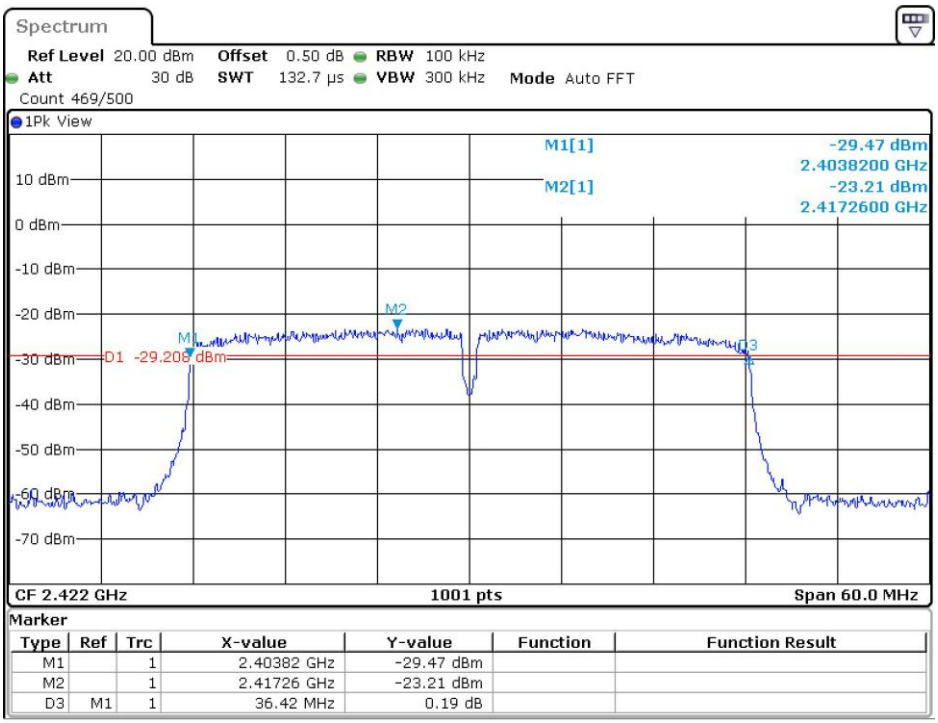
802.11n-HT40



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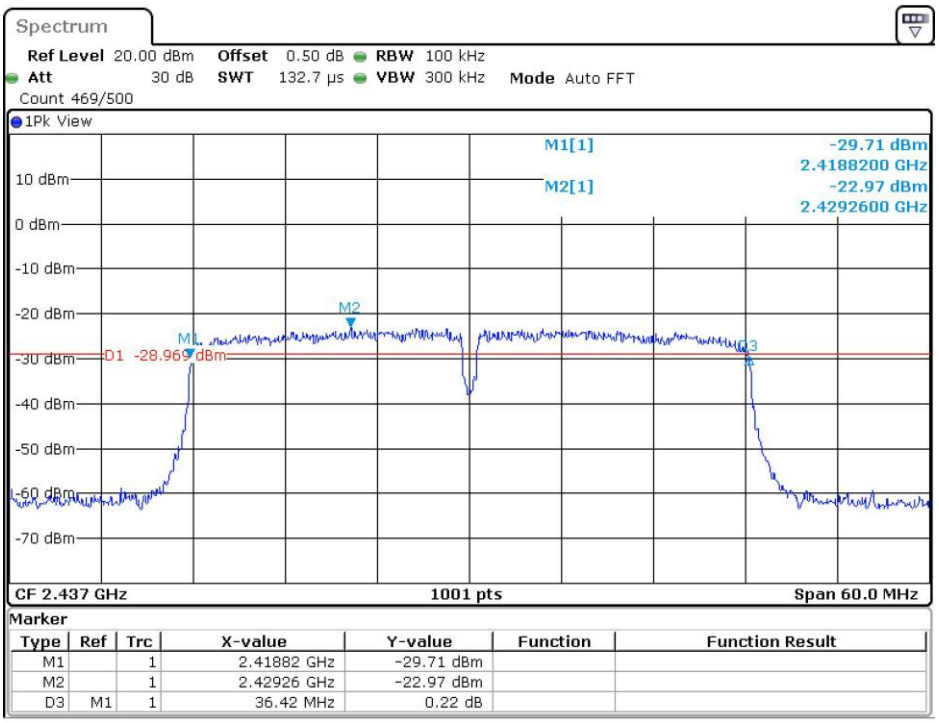

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41882 GHz	-29.71 dBm		
M2		1	2.42926 GHz	-22.97 dBm		
D3	M1	1	36.42 MHz	0.22 dB		

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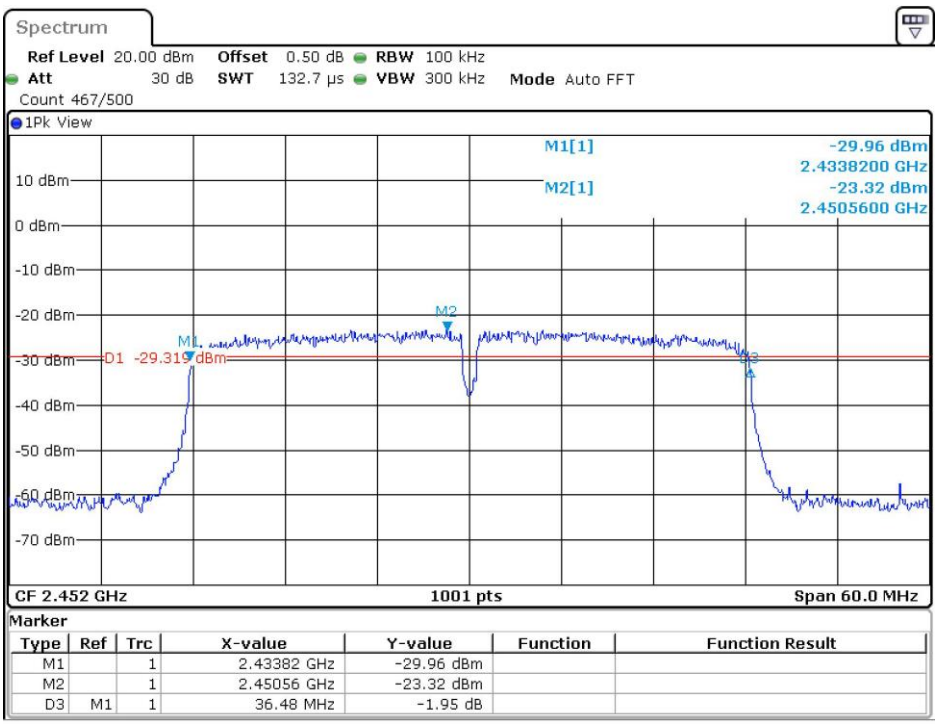


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43382 GHz	-29.96 dBm		
M2		1	2.45056 GHz	-23.32 dBm		
D3	M1	1	36.48 MHz	-1.95 dB		

Date: 6.MAY.2021 17:09:32

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021 Model: RC684

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/3 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	-7.85
2437	-8.10
2462	-8.25

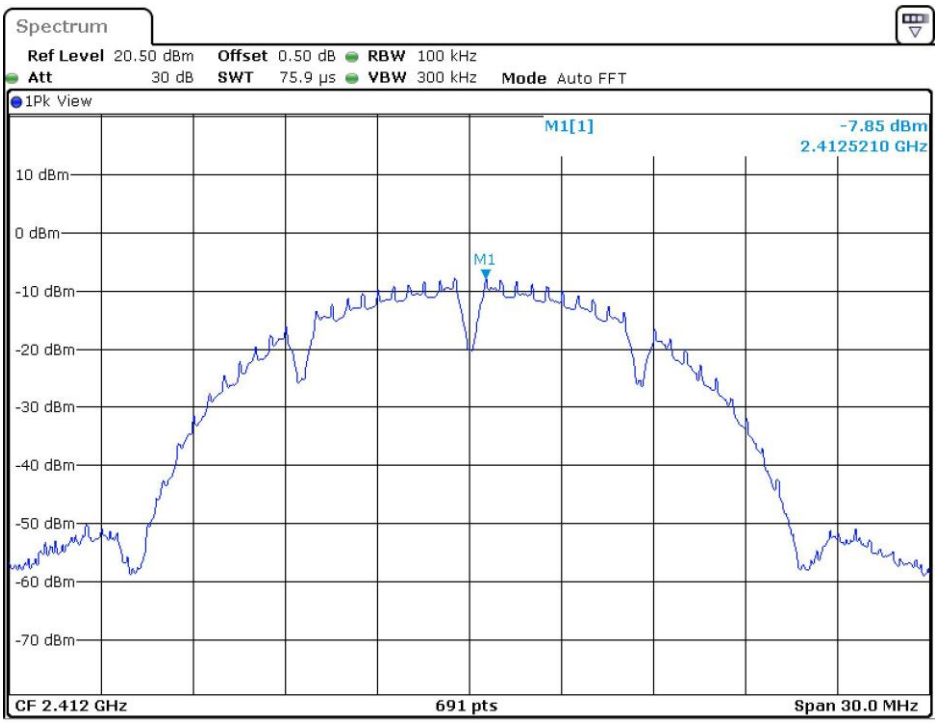
IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	-19.62
2437	-20.0
2462	-19.98

IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	-19.23
2437	-19.94
2462	-19.71

IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2422	-22.69
2437	-23.52
2452	-23.08

The test plots are attached as below.

802.11b



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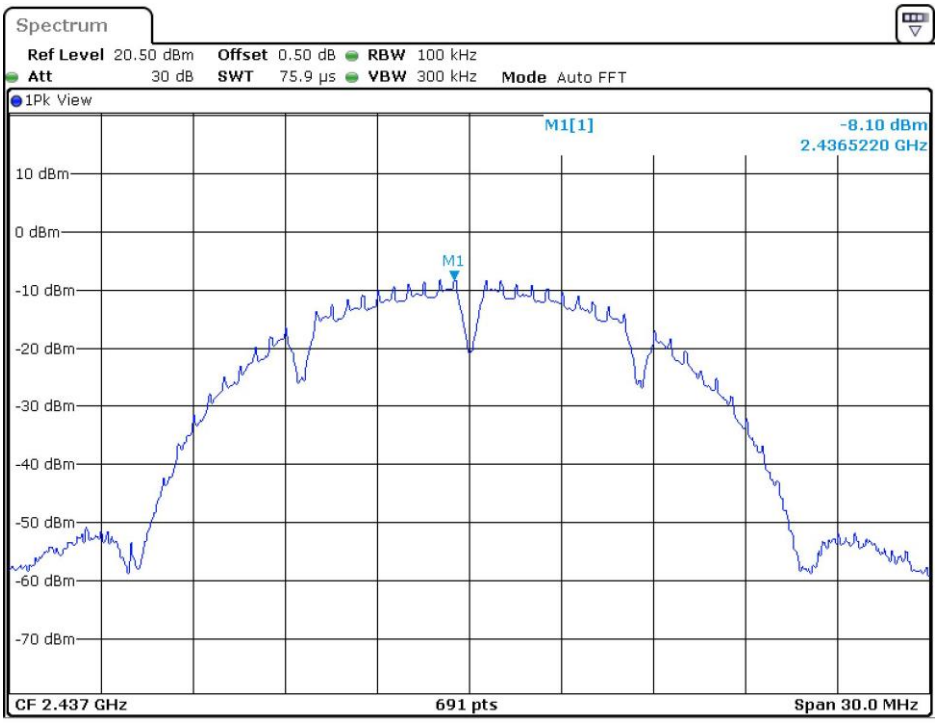

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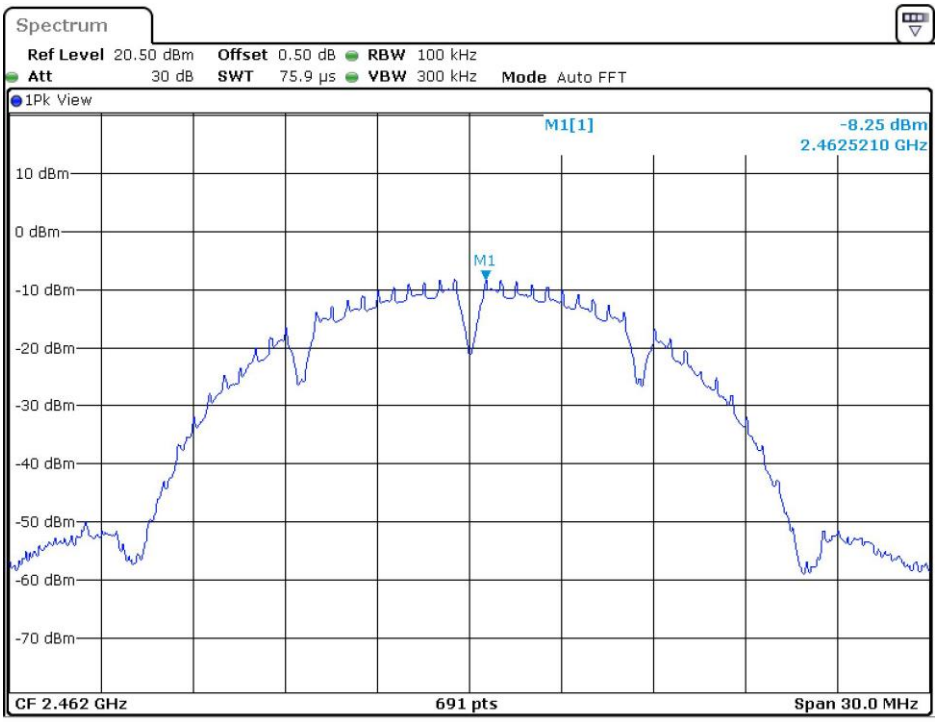

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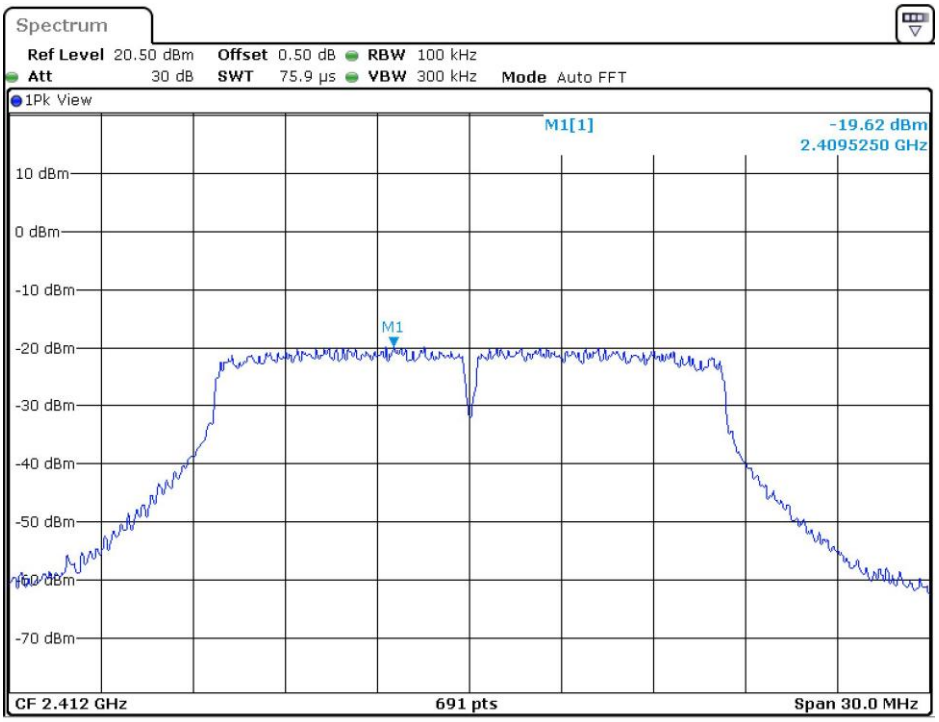
802.11g



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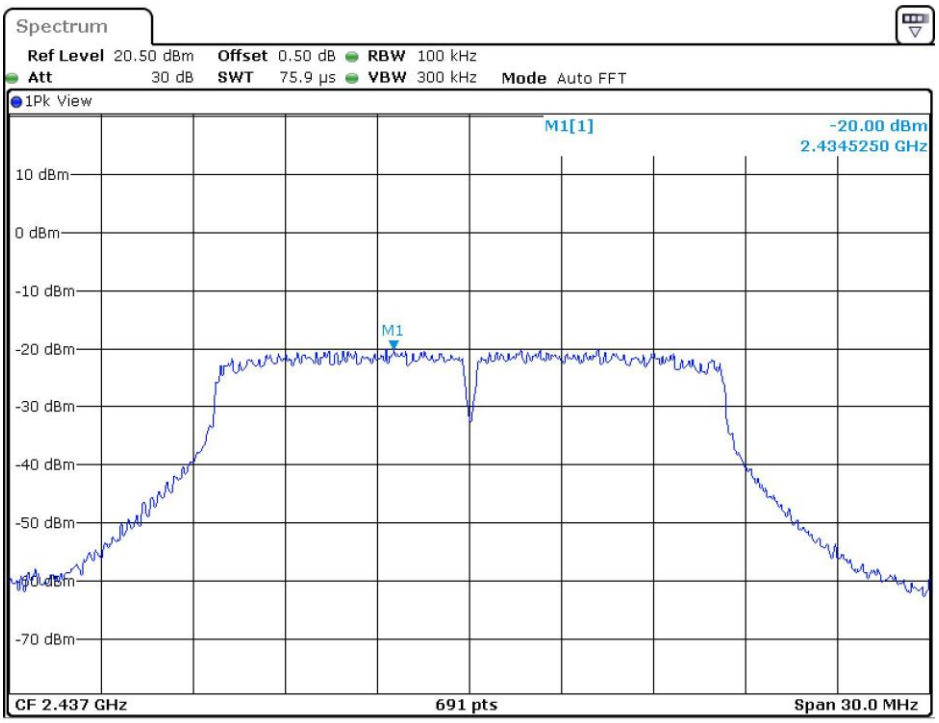

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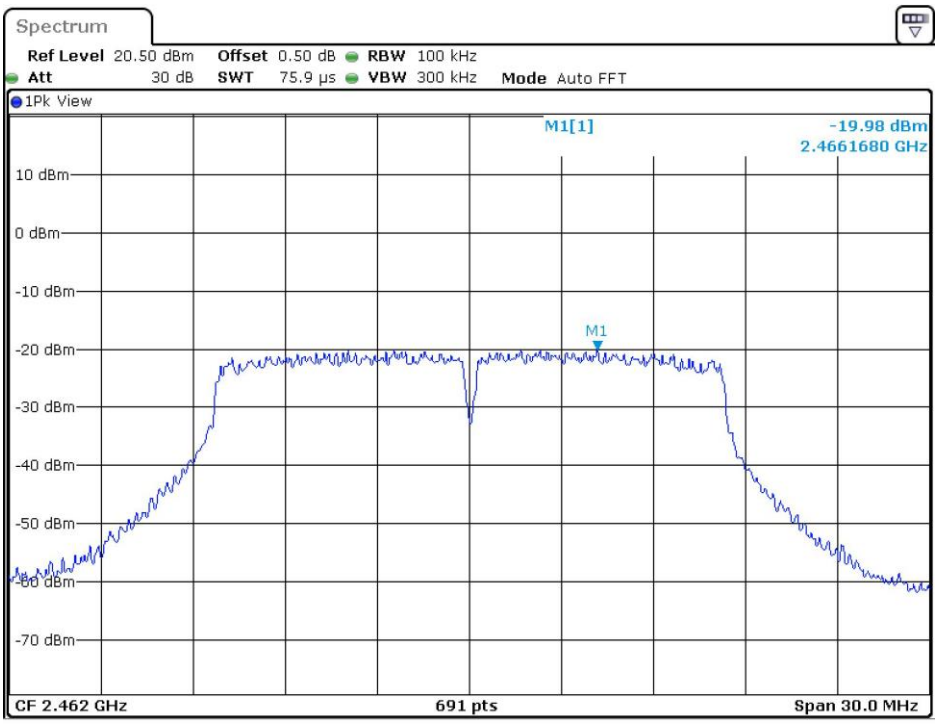

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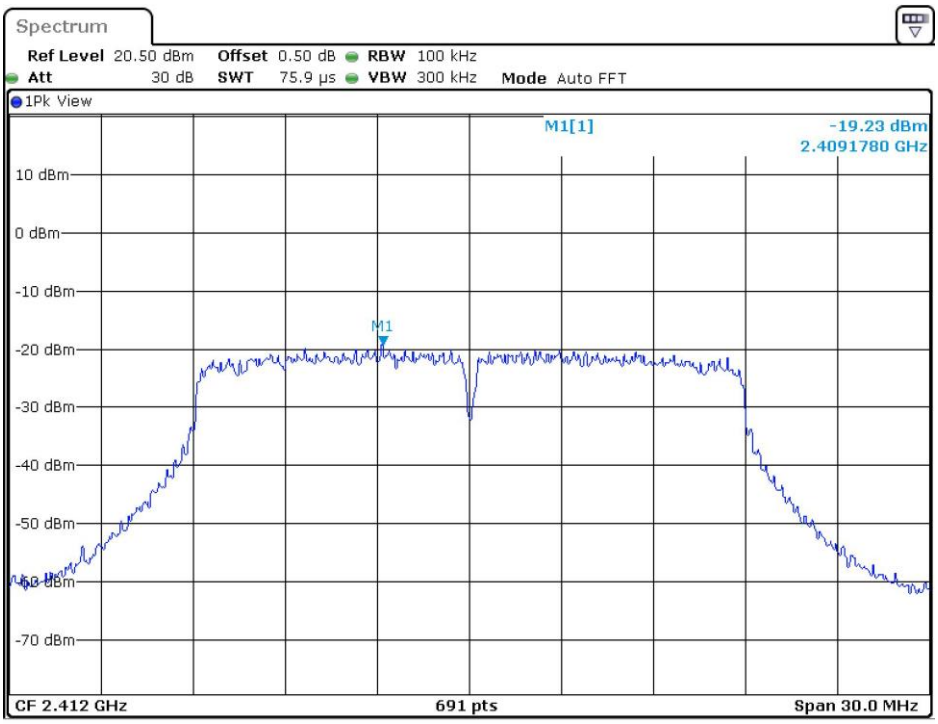
802.11n-HT20



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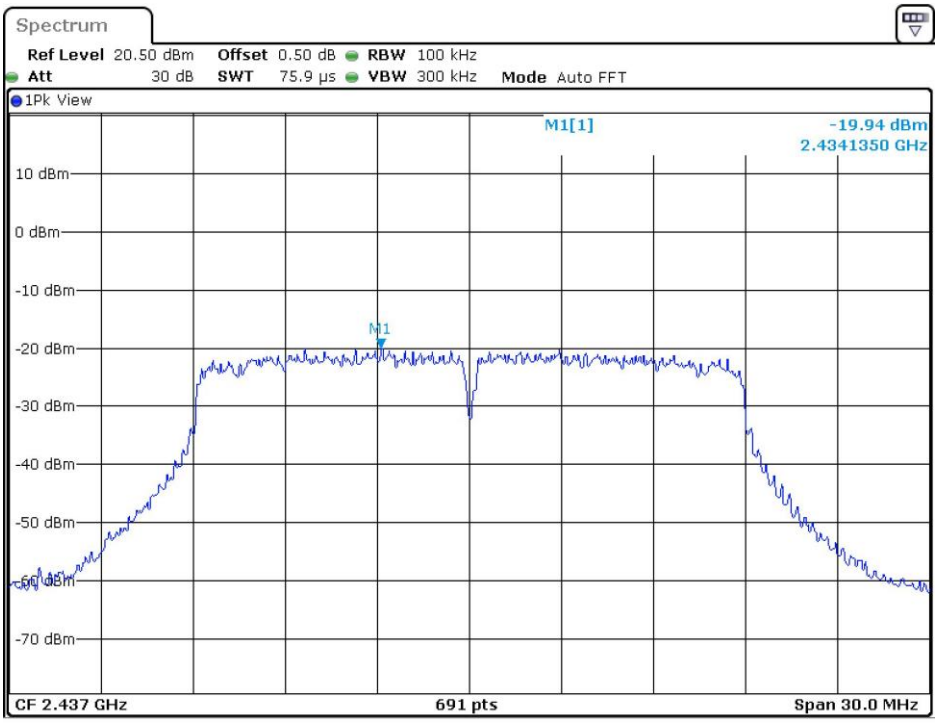

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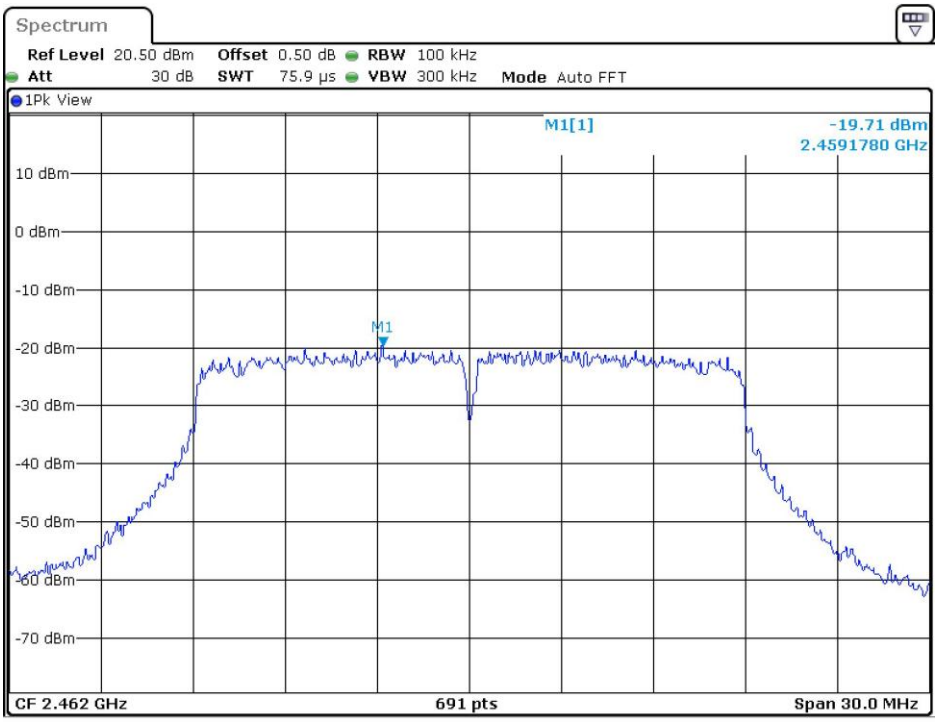

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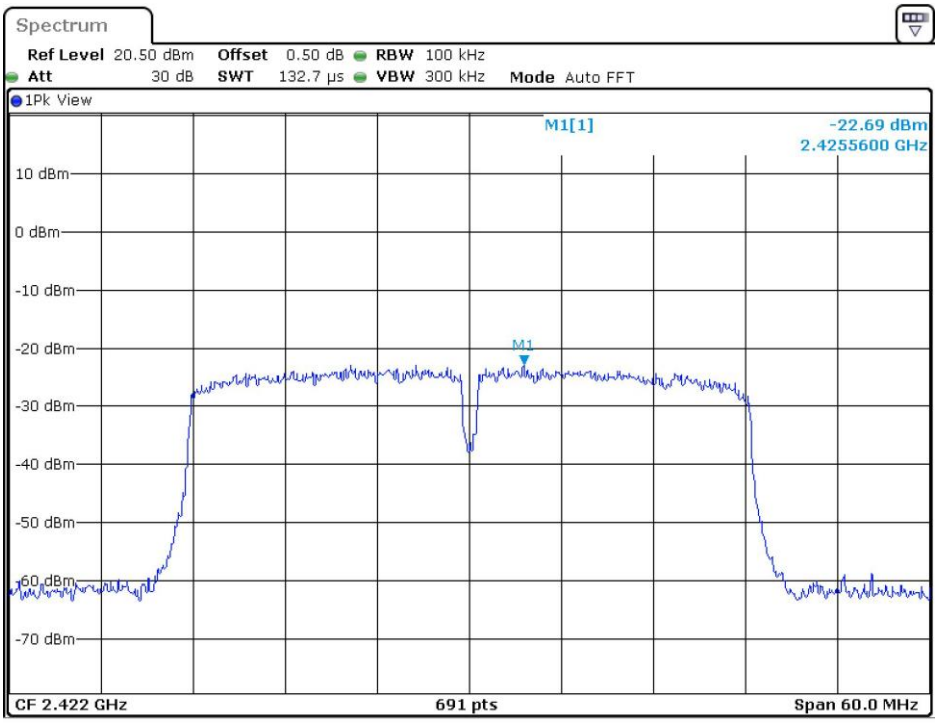
802.11n-HT40



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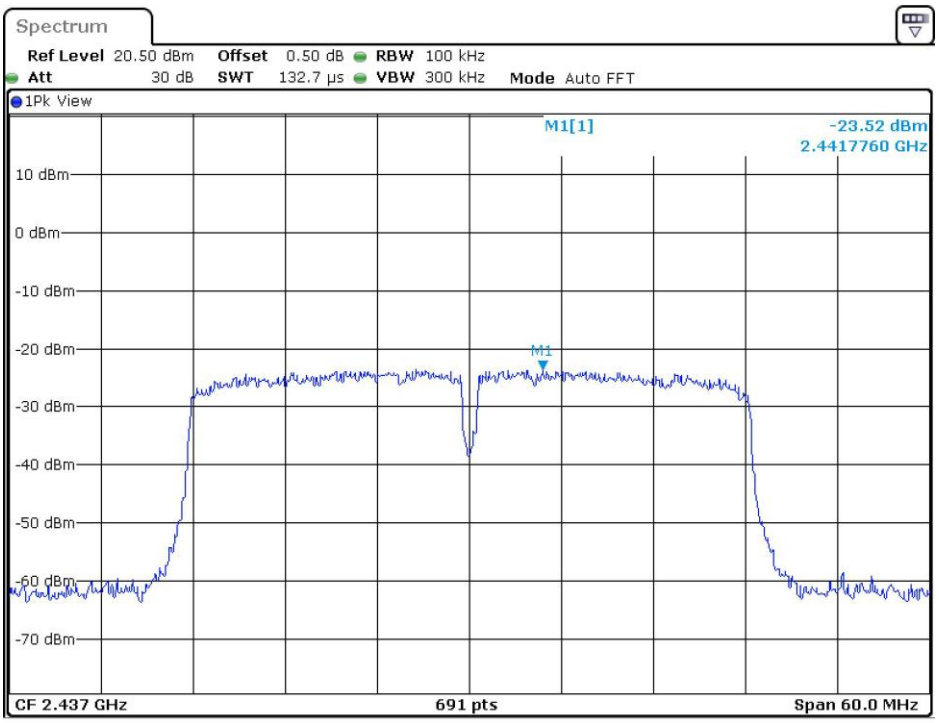

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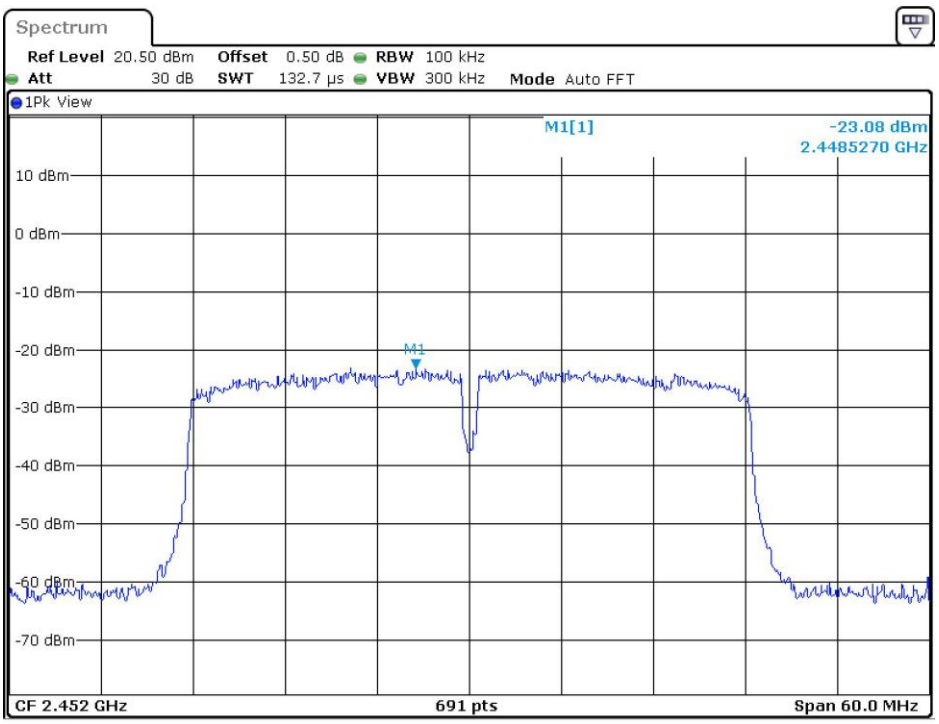


Date: 6.MAY.2021 17:10:54

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021 Model: RC684

4.4 Out of Band Conducted Emissions, FCC Rule 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 a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

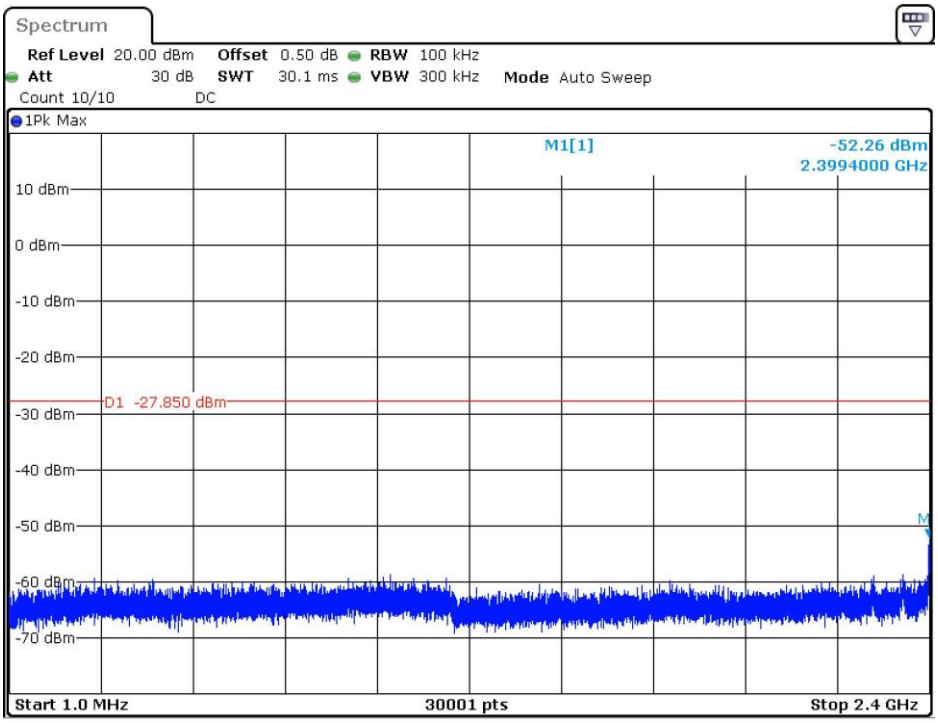
All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20 and 13.5Mbps for 802.11n-HT40.

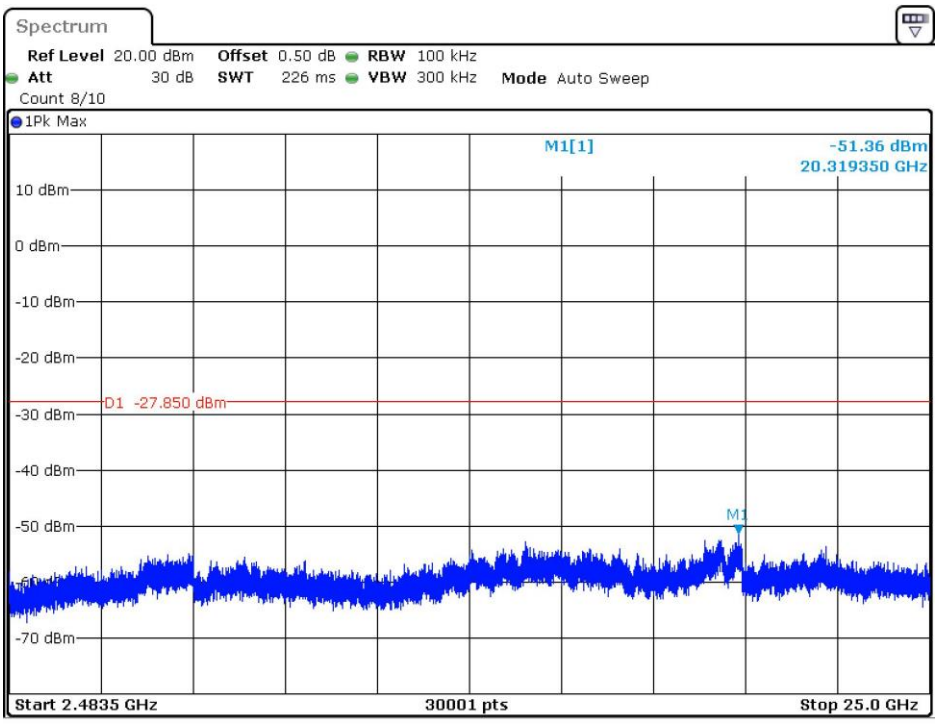
The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

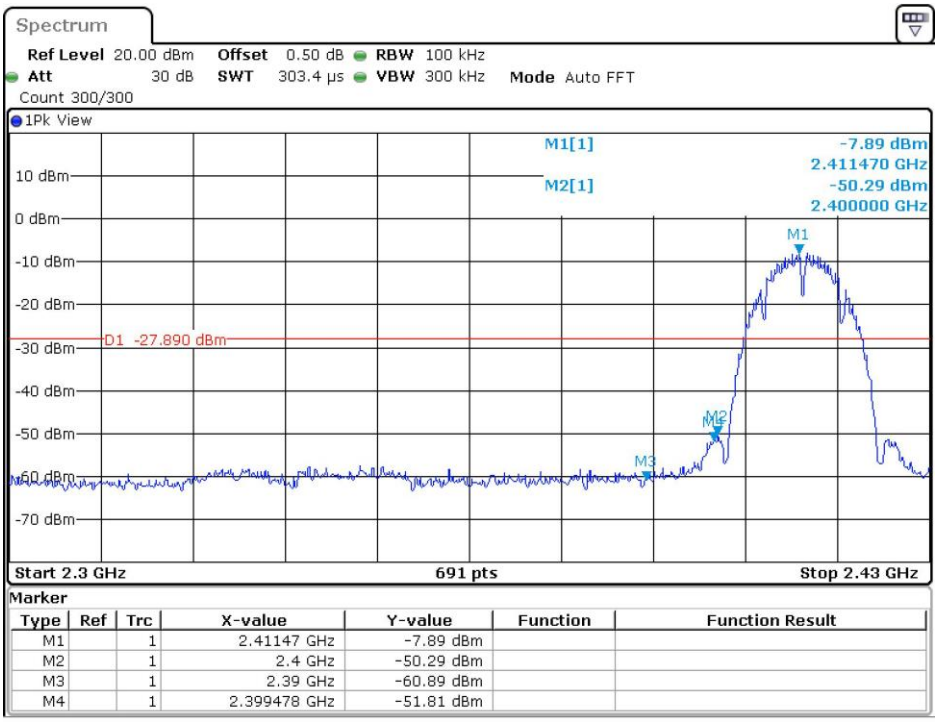
802.11b
Channel 01 (2412MHz) Reference Level: -7.85dBm



Date: 6.MAY.2021 16:23:11



Date: 6.MAY.2021 16:23:17

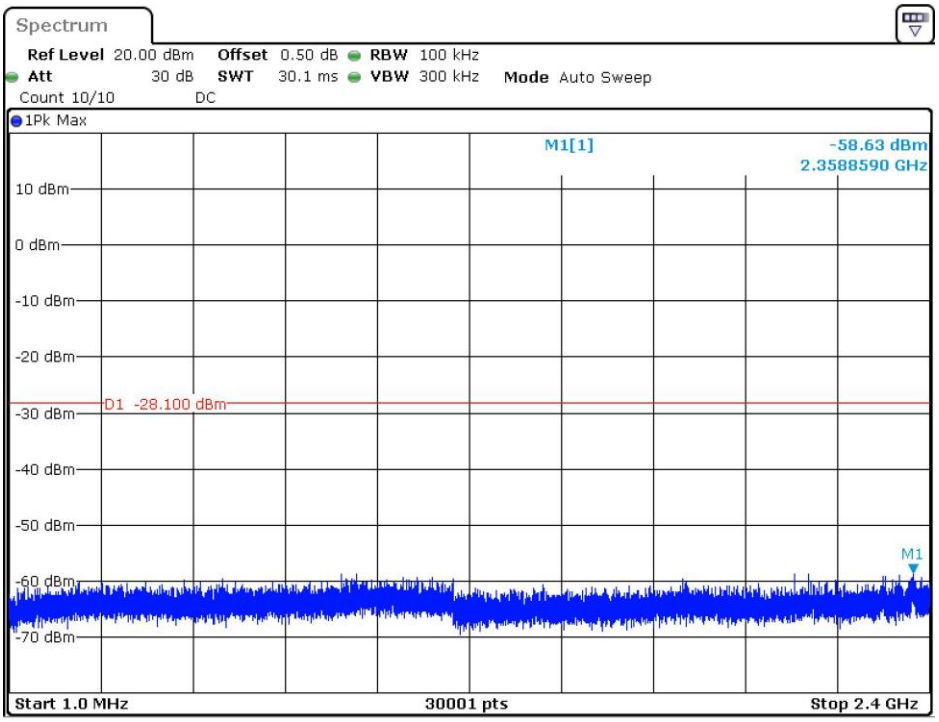


Marker

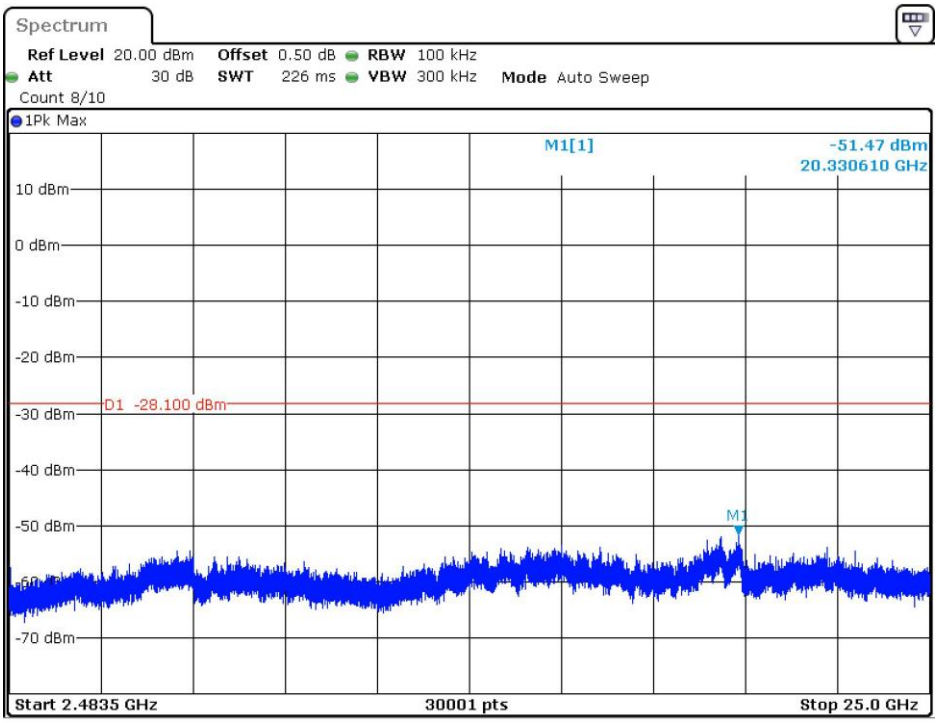
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41147 GHz	-7.89 dBm		
M2		1	2.4 GHz	-50.29 dBm		
M3		1	2.39 GHz	-60.89 dBm		
M4		1	2.399478 GHz	-51.81 dBm		

Date: 6.MAY.2021 16:22:57

Channel 06 (2437MHz) Reference Level: -8.10dBm

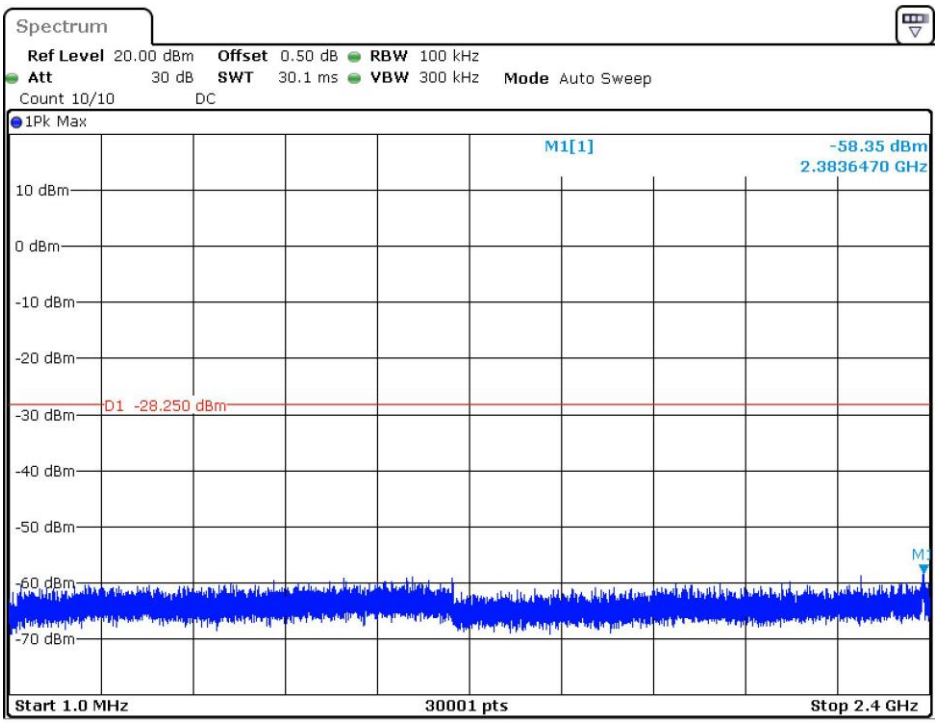


Date: 6.MAY.2021 16:25:08

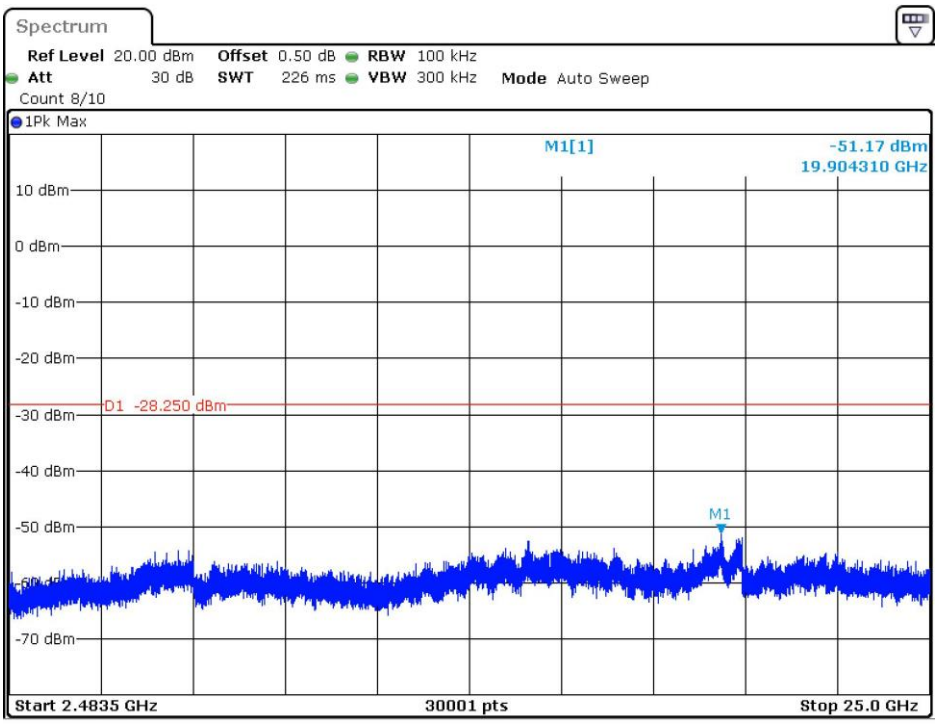


Date: 6.MAY.2021 16:25:14

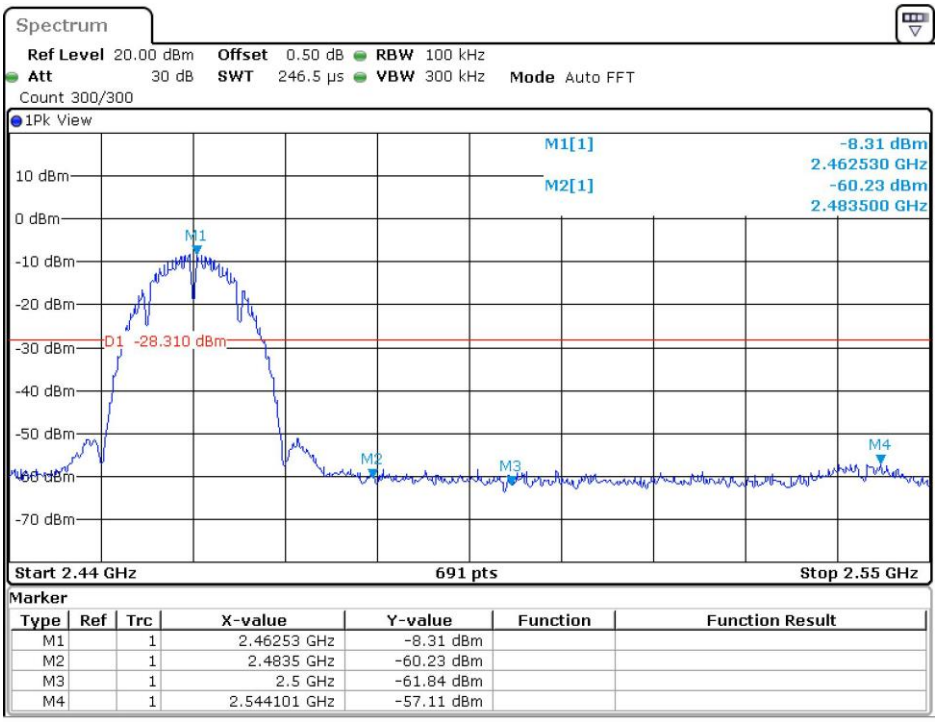
Channel 11 (2462MHz) Reference Level: -8.25dBm



Date: 6.MAY.2021 16:27:28



Date: 6.MAY.2021 16:27:35

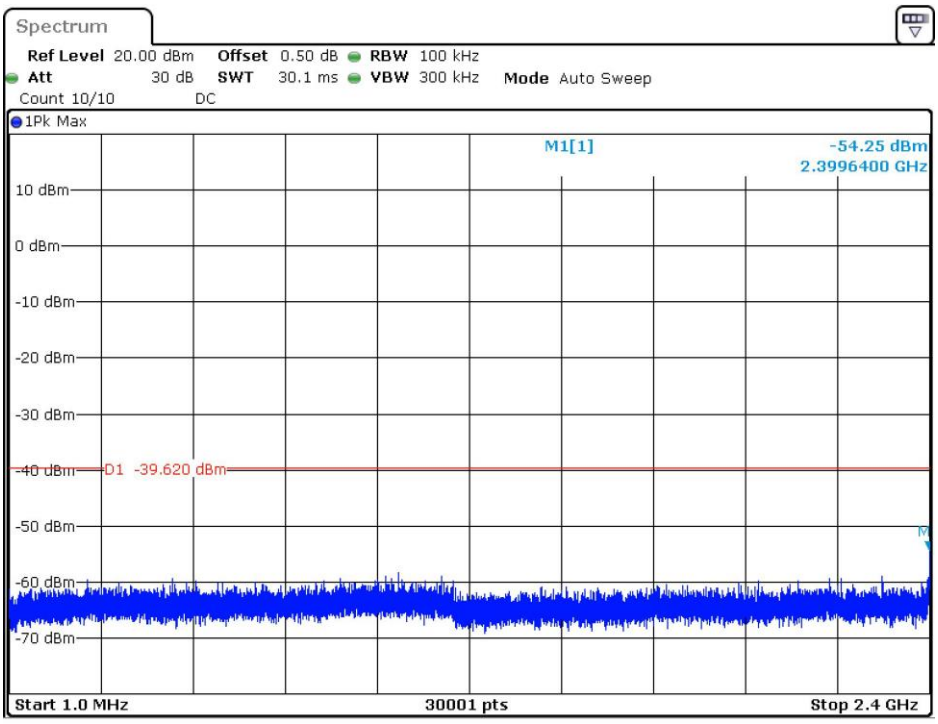


Marker

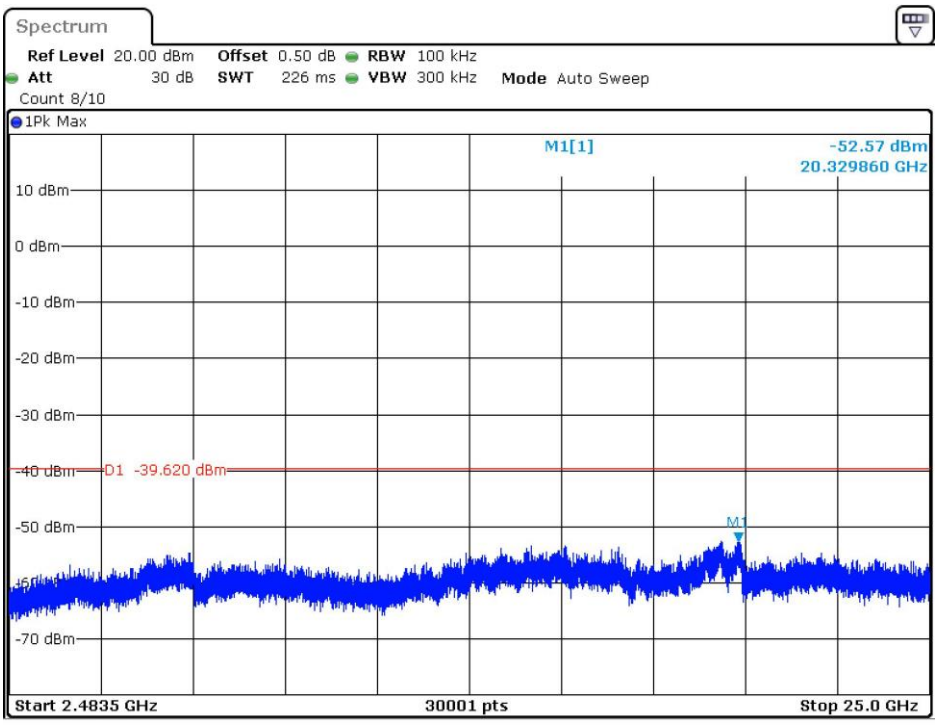
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46253 GHz	-8.31 dBm		
M2		1	2.4835 GHz	-60.23 dBm		
M3		1	2.5 GHz	-61.84 dBm		
M4		1	2.544101 GHz	-57.11 dBm		

Date: 6.MAY.2021 16:27:15

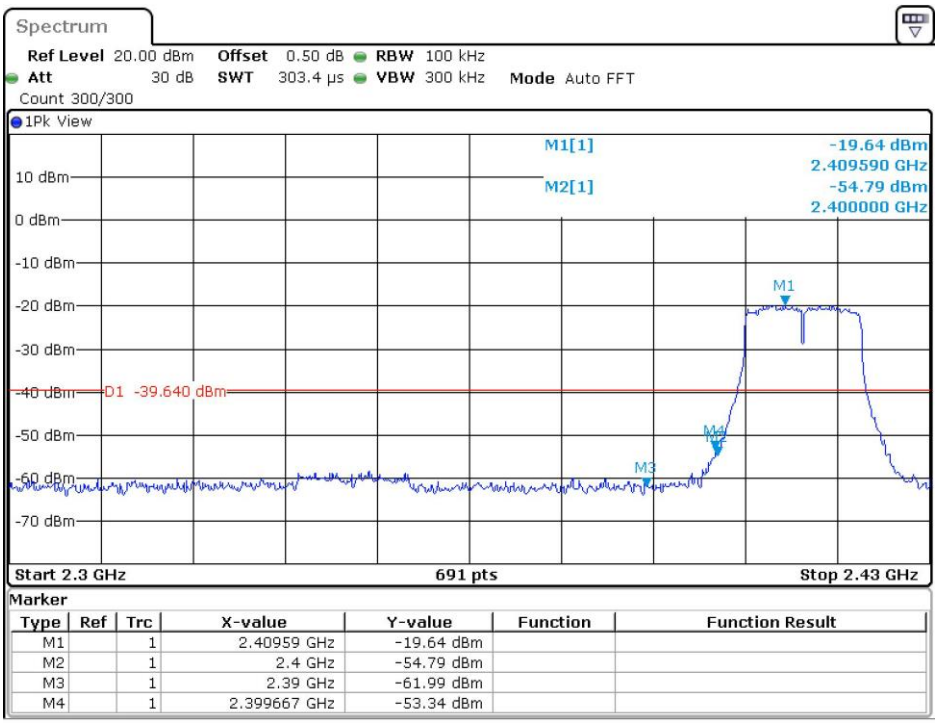
802.11g
Channel 01 (2412MHz) Reference Level: -19.62dBm



Date: 6.MAY.2021 16:51:52



Date: 6.MAY.2021 16:51:58

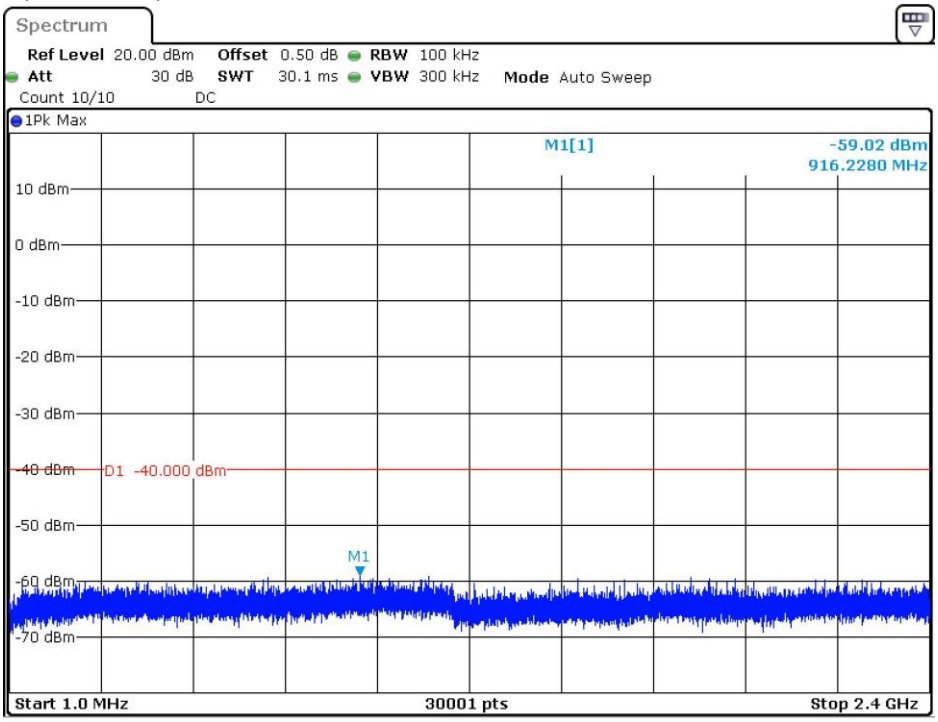


Marker

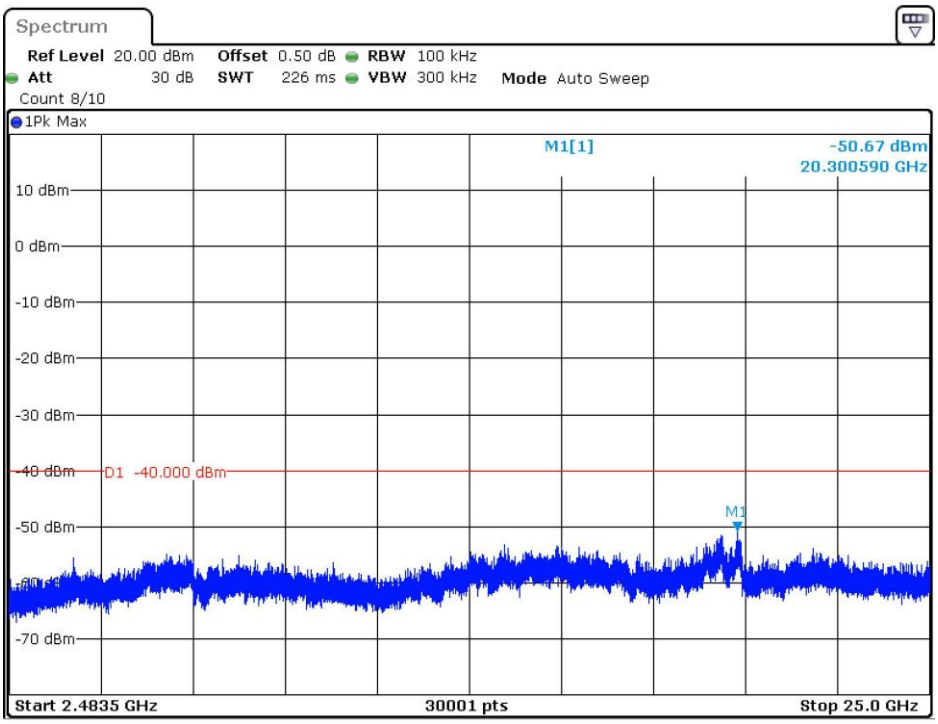
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40959 GHz	-19.64 dBm		
M2		1	2.4 GHz	-54.79 dBm		
M3		1	2.39 GHz	-61.99 dBm		
M4		1	2.399667 GHz	-53.34 dBm		

Date: 6.MAY.2021 16:51:38

Channel 06 (2437MHz) Reference Level: -20dBm

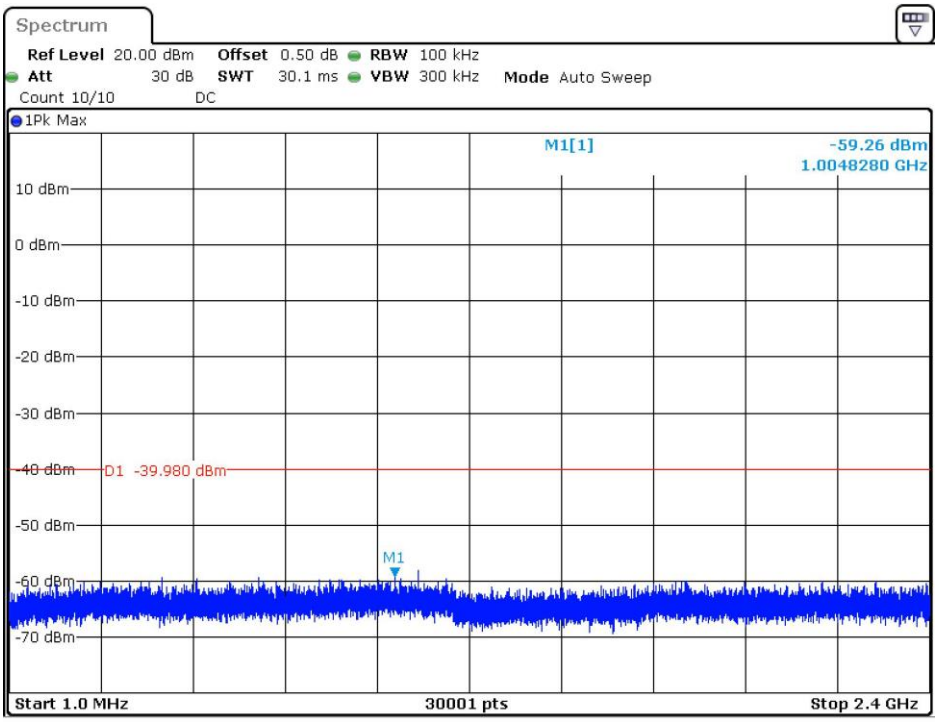


Date: 6.MAY.2021 16:53:15

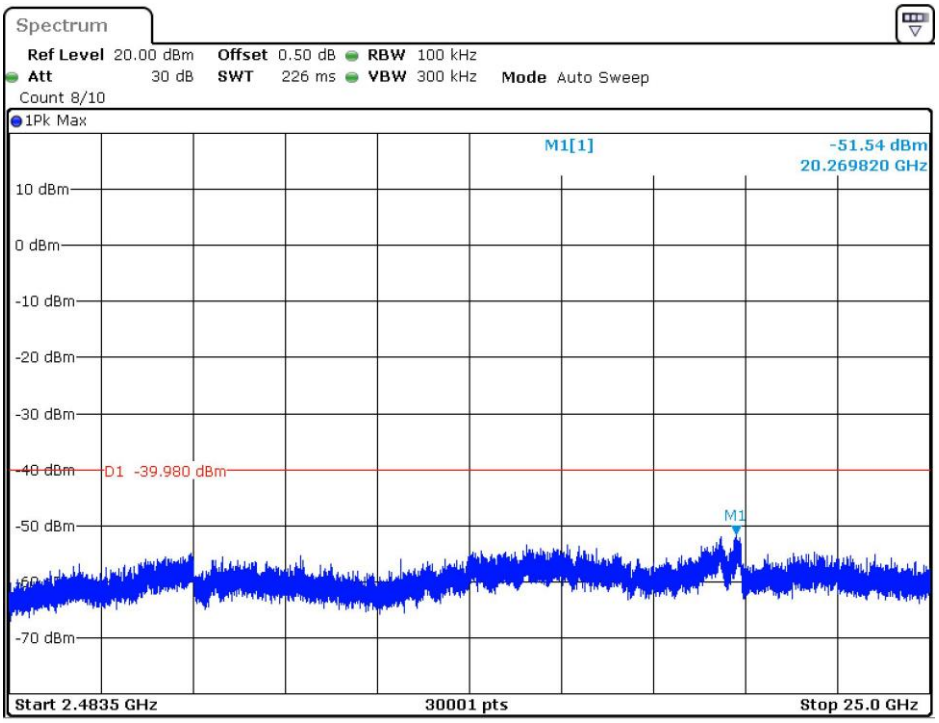


Date: 6.MAY.2021 16:53:21

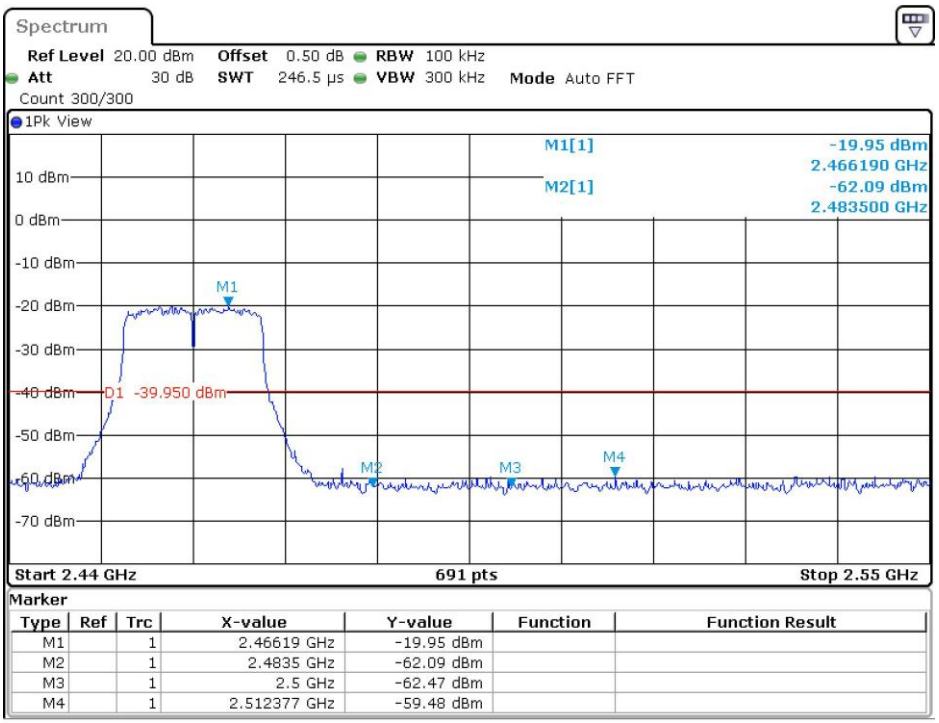
Channel 11 (2462MHz) Reference Level: -19.98dBm



Date: 6.MAY.2021 16:54:39



Date: 6.MAY.2021 16:54:45

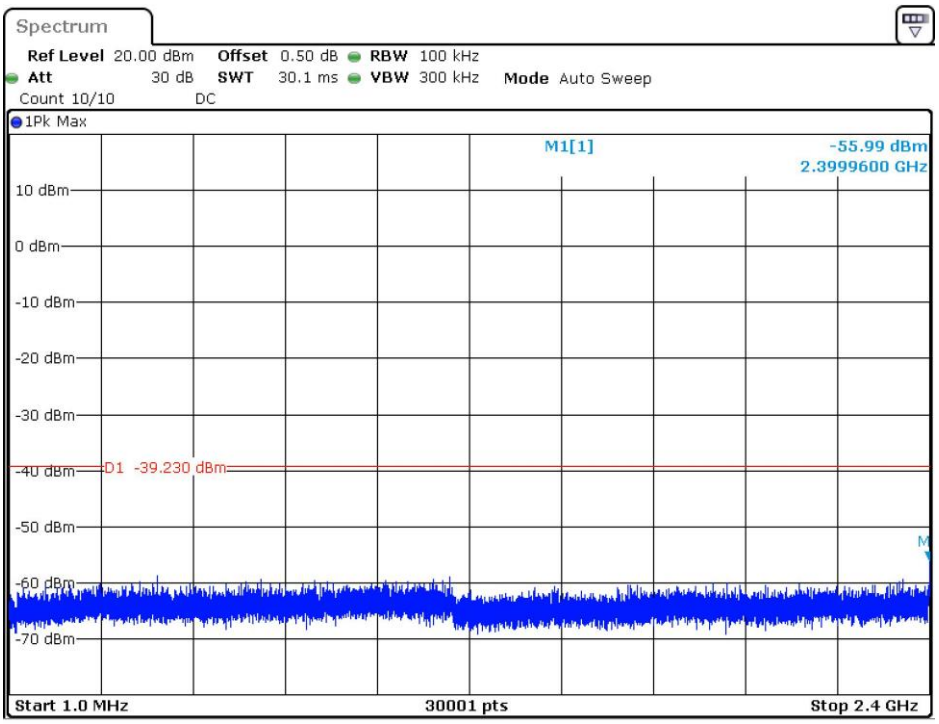


Marker

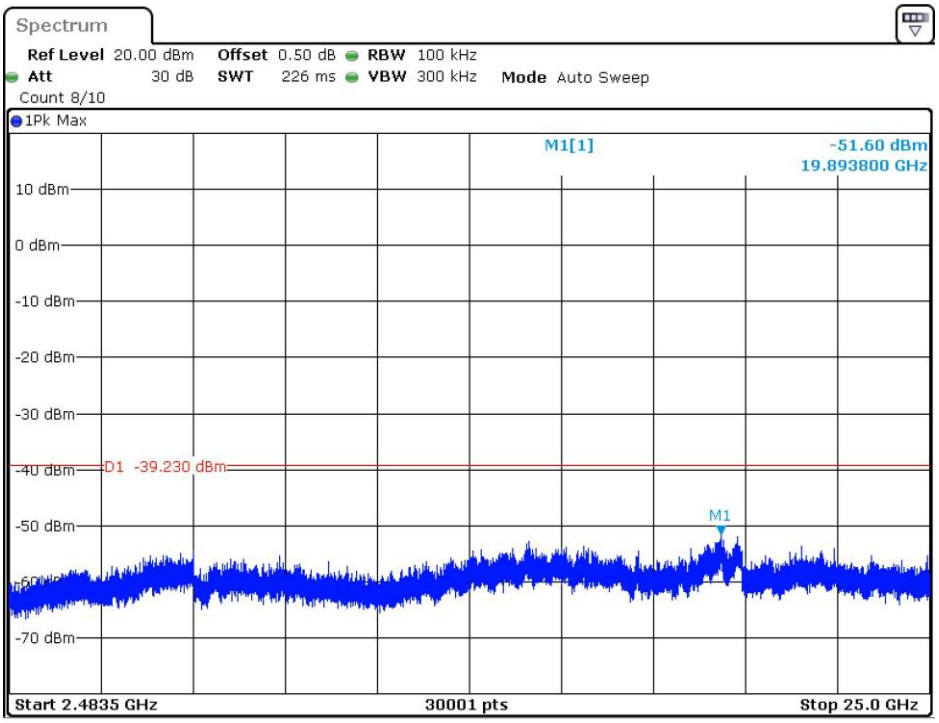
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46619 GHz	-19.95 dBm		
M2		1	2.4835 GHz	-62.09 dBm		
M3		1	2.5 GHz	-62.47 dBm		
M4		1	2.512377 GHz	-59.48 dBm		

Date: 6.MAY.2021 16:54:25

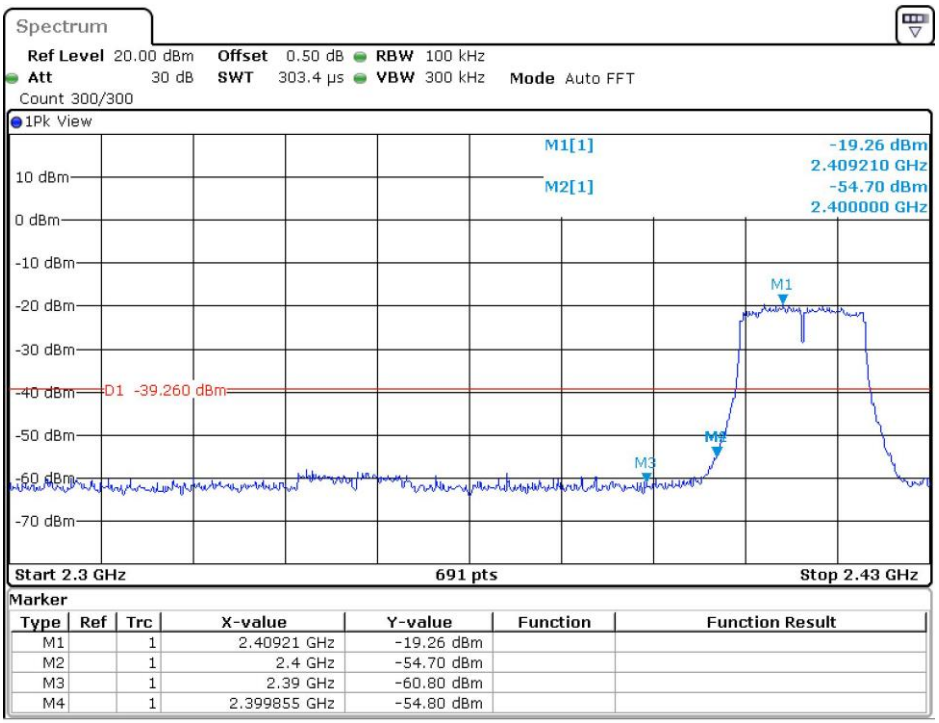
802.11n-HT20
Channel 01 (2412MHz) Reference Level: -19.23dBm



Date: 6.MAY.2021 16:56:36



Date: 6.MAY.2021 16:56:42

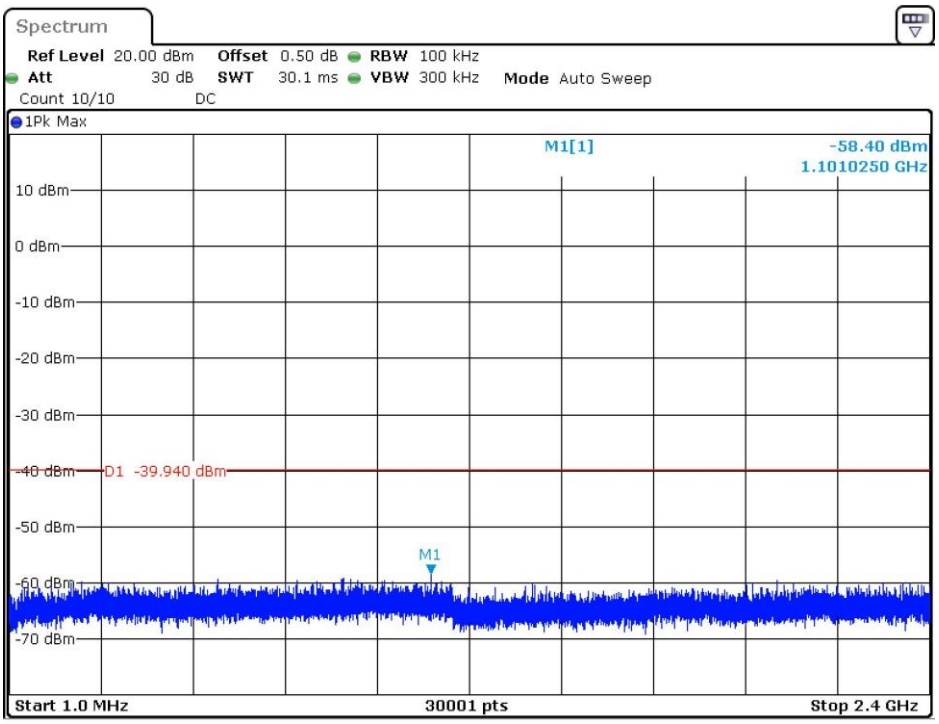


Marker

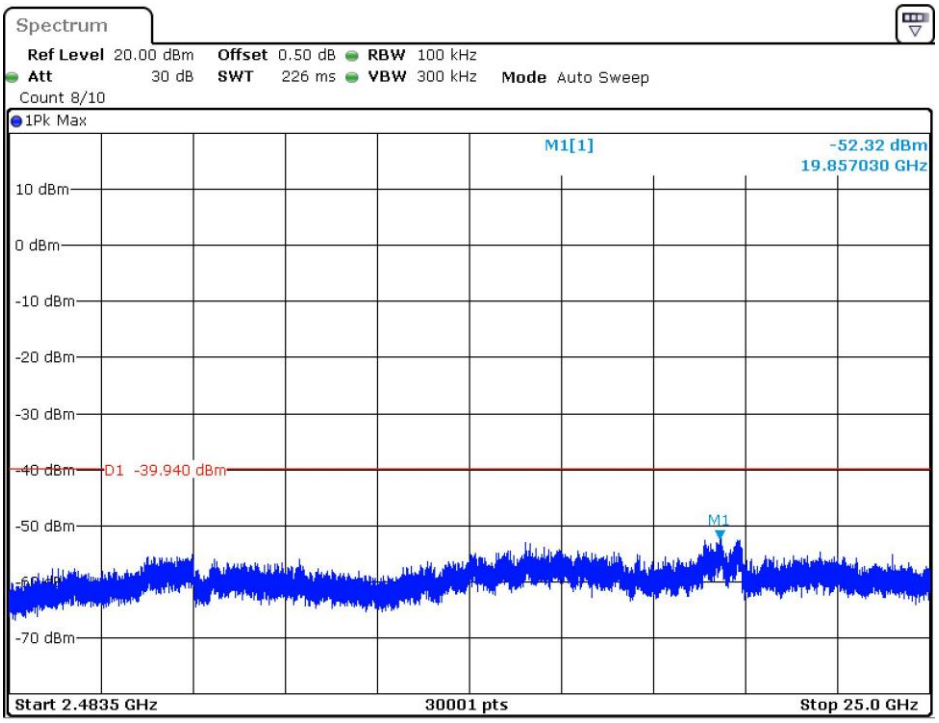
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40921 GHz	-19.26 dBm		
M2		1	2.4 GHz	-54.70 dBm		
M3		1	2.39 GHz	-60.80 dBm		
M4		1	2.399855 GHz	-54.80 dBm		

Date: 6.MAY.2021 16:56:23

Channel 06 (2437MHz) Reference Level: -19.94dBm

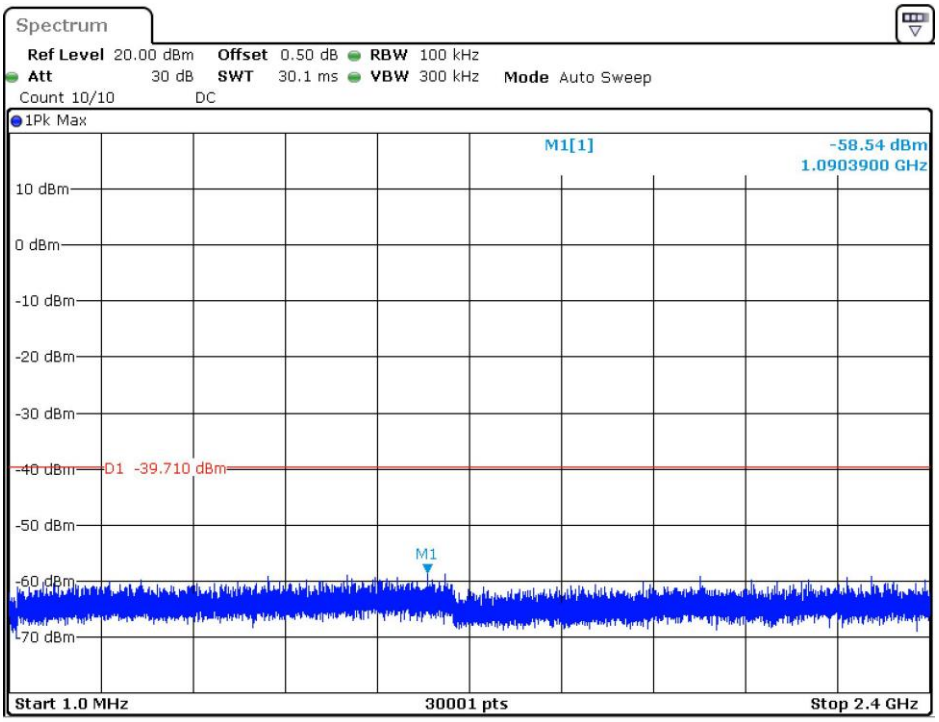


Date: 6.MAY.2021 17:00:22

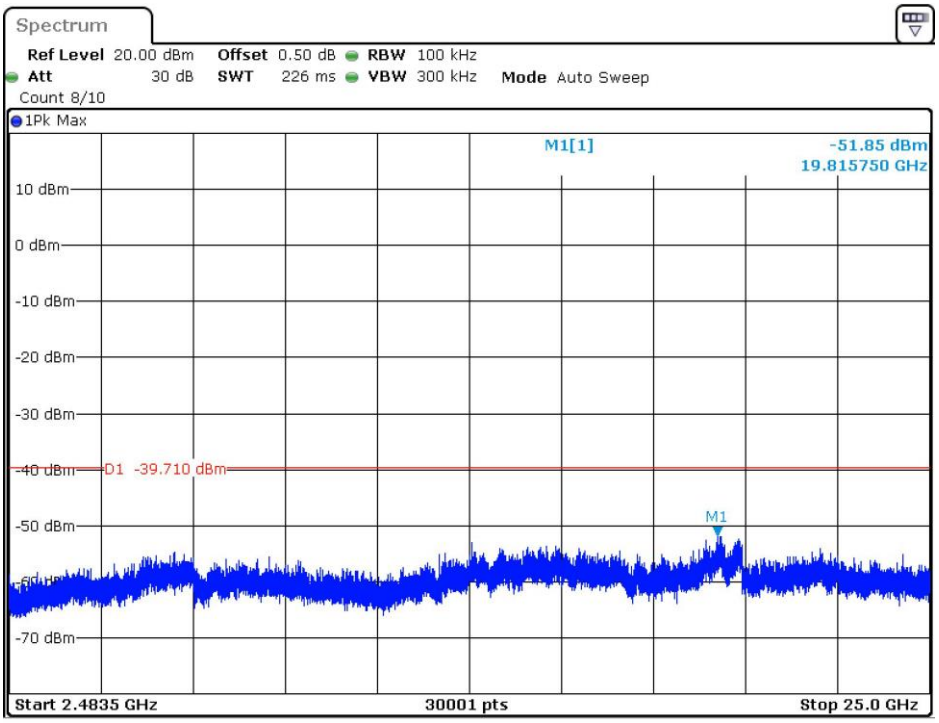


Date: 6.MAY.2021 17:00:28

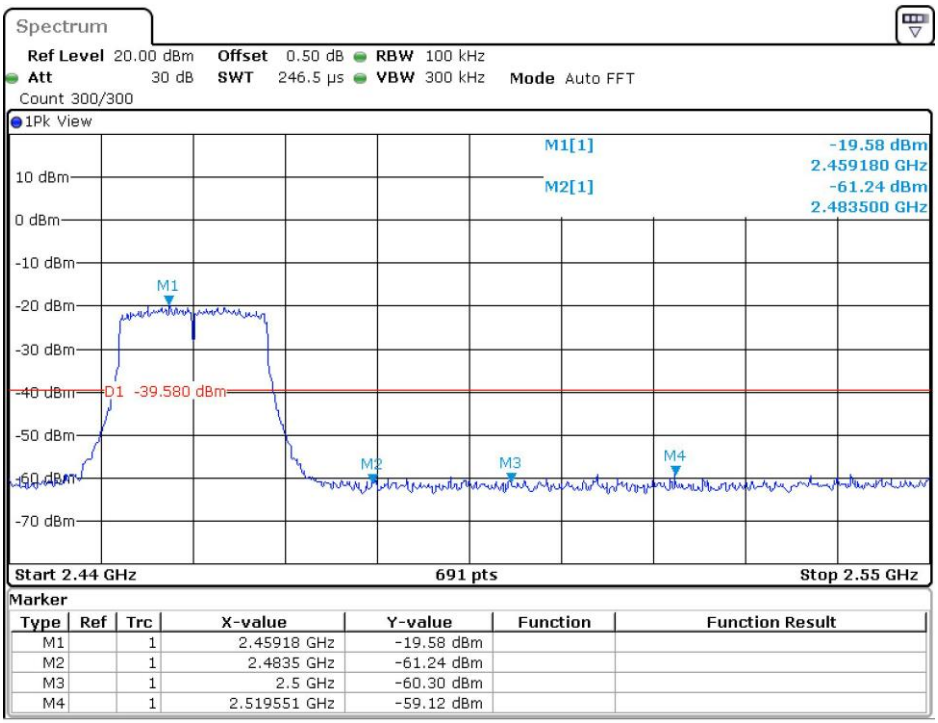
Channel 11 (2462MHz) Reference Level: -19.71dBm



Date: 6.MAY.2021 17:02:00



Date: 6.MAY.2021 17:02:06

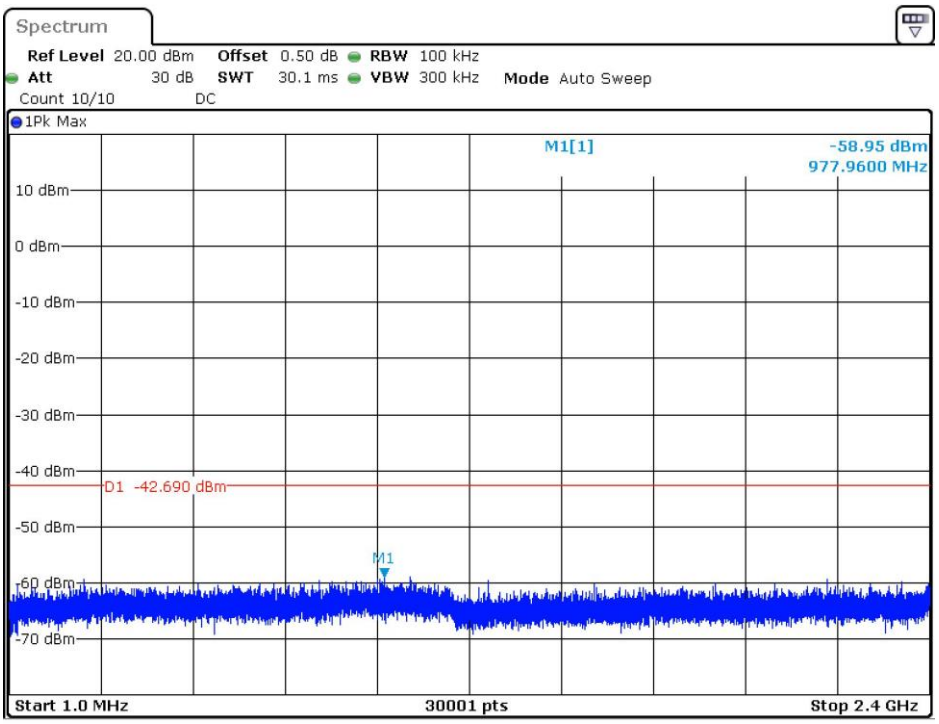


Marker

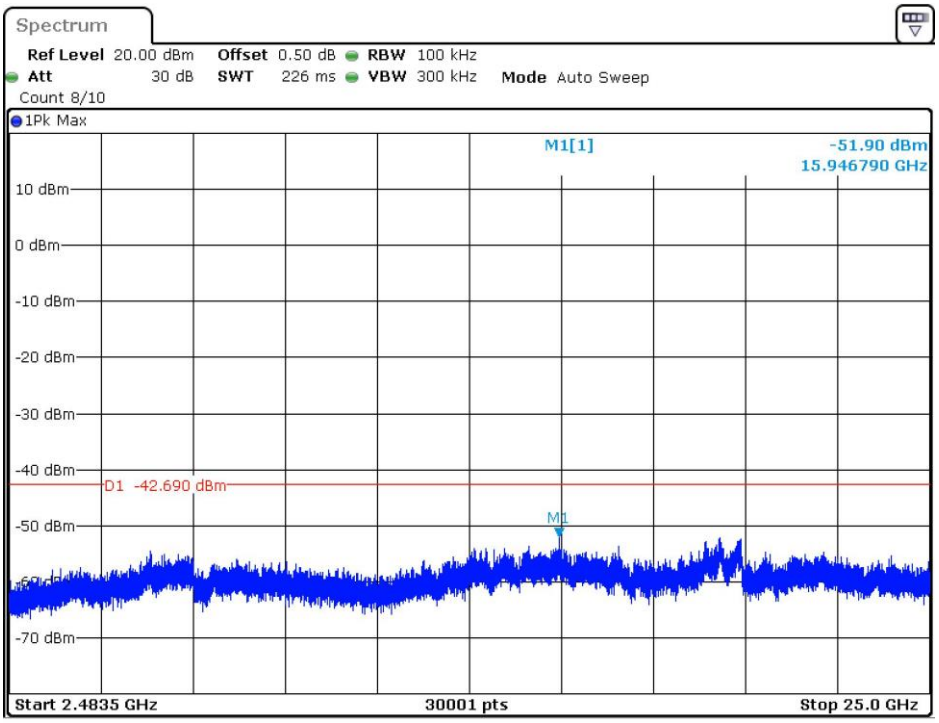
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45918 GHz	-19.58 dBm		
M2		1	2.4835 GHz	-61.24 dBm		
M3		1	2.5 GHz	-60.30 dBm		
M4		1	2.519551 GHz	-59.12 dBm		

Date: 6.MAY.2021 17:01:47

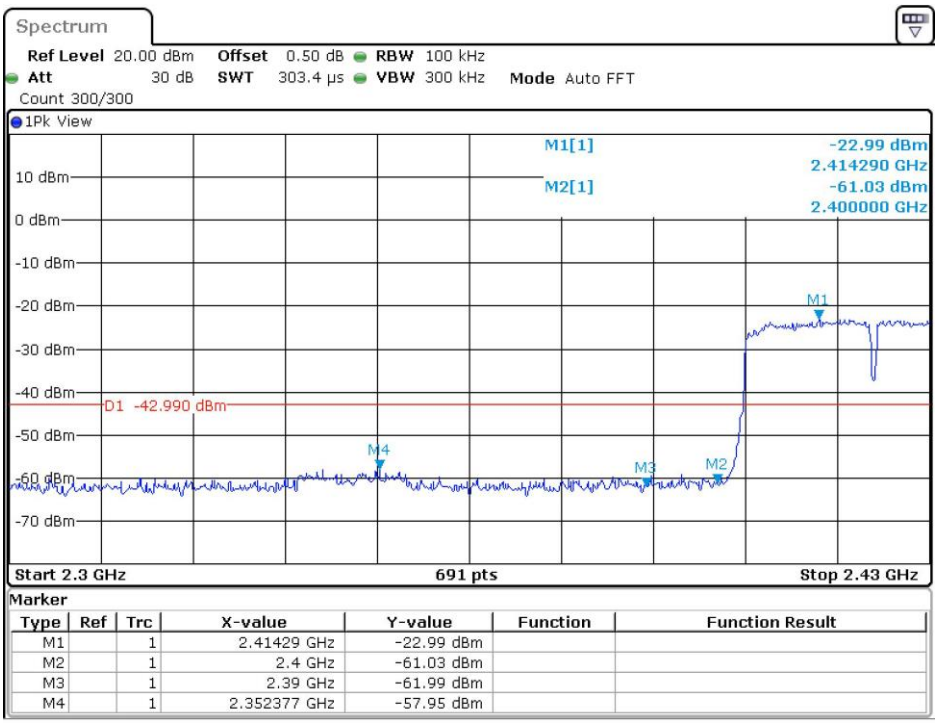
802.11n-HT40
Channel 01 (2422MHz) Reference Level: -22.69dBm



Date: 6.MAY.2021 17:06:21



Date: 6.MAY.2021 17:06:28

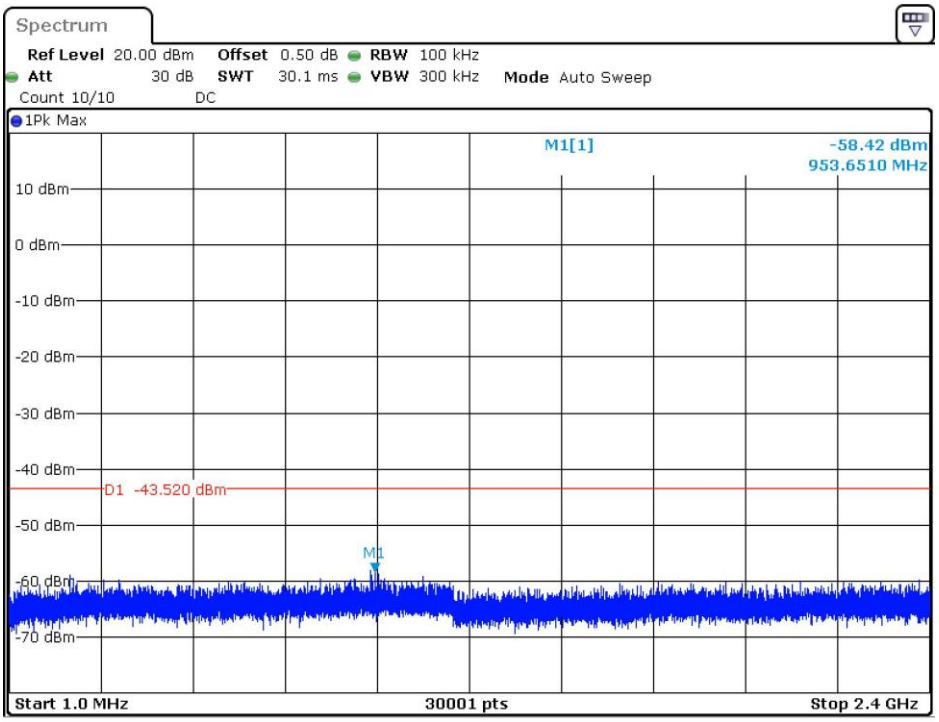


Marker

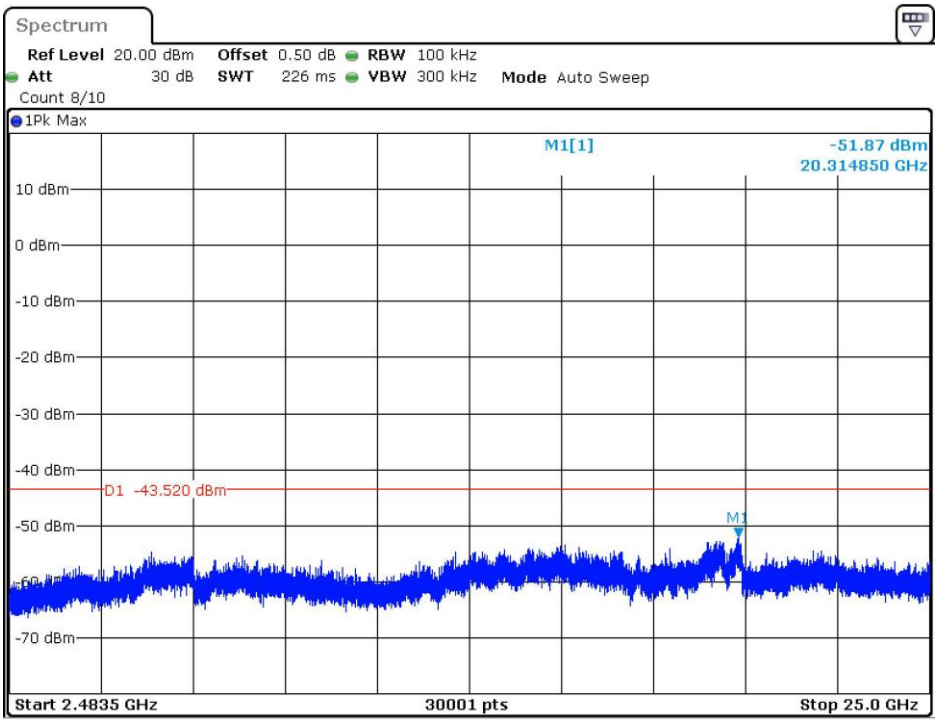
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41429 GHz	-22.99 dBm		
M2		1	2.4 GHz	-61.03 dBm		
M3		1	2.39 GHz	-61.99 dBm		
M4		1	2.352377 GHz	-57.95 dBm		

Date: 6.MAY.2021 17:06:08

Channel 06 (2437MHz) Reference Level: -23.52dBm

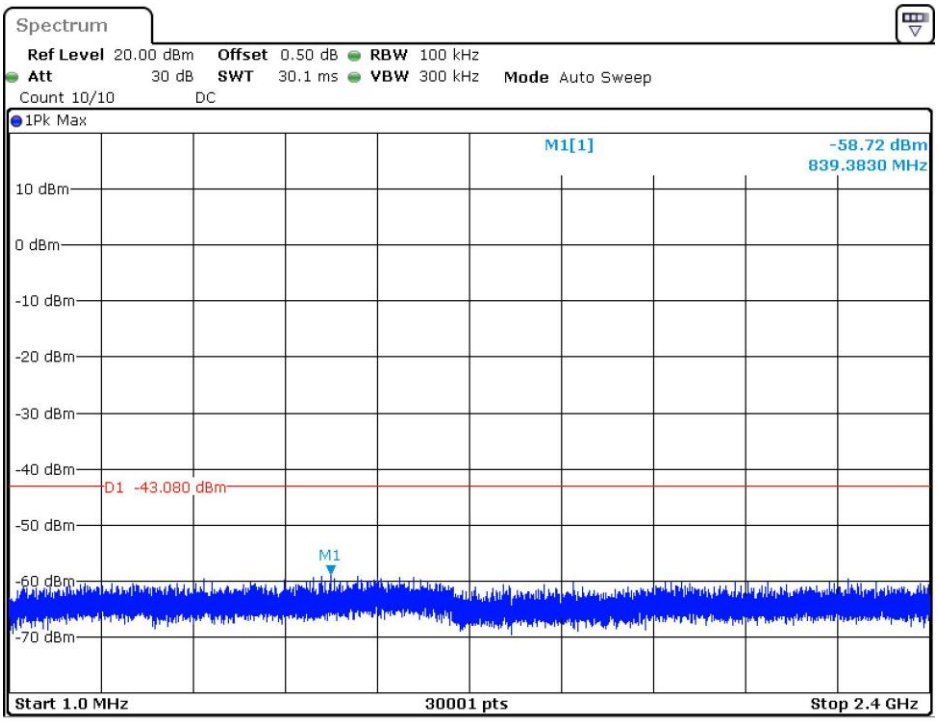


Date: 6.MAY.2021 17:08:01

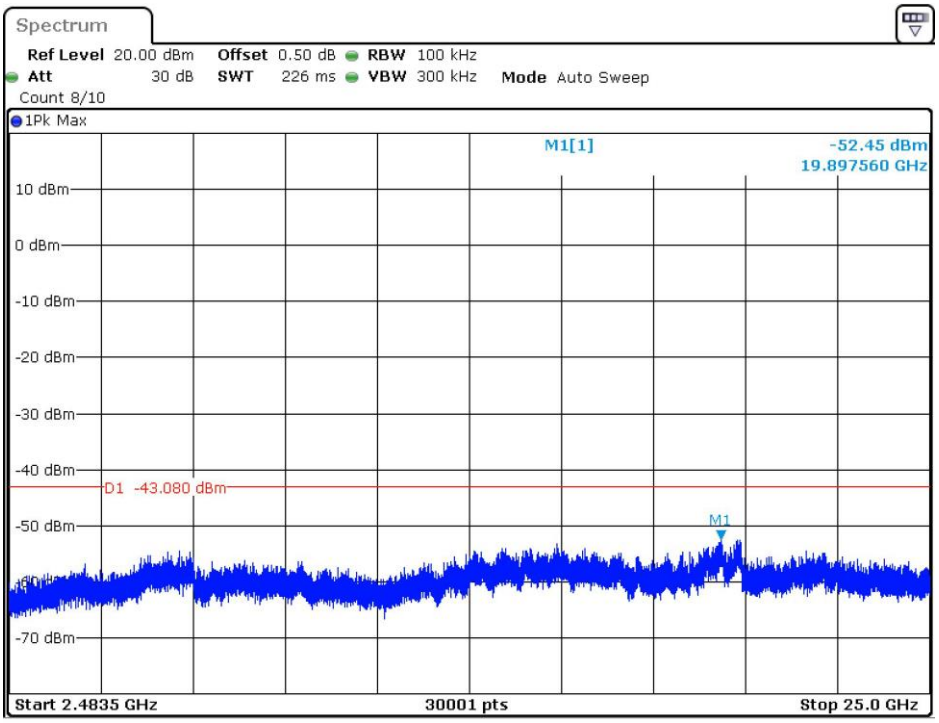


Date: 6.MAY.2021 17:08:07

Channel 11 (2452MHz) Reference Level: -23.08dBm



Date: 6.MAY.2021 17:10:58



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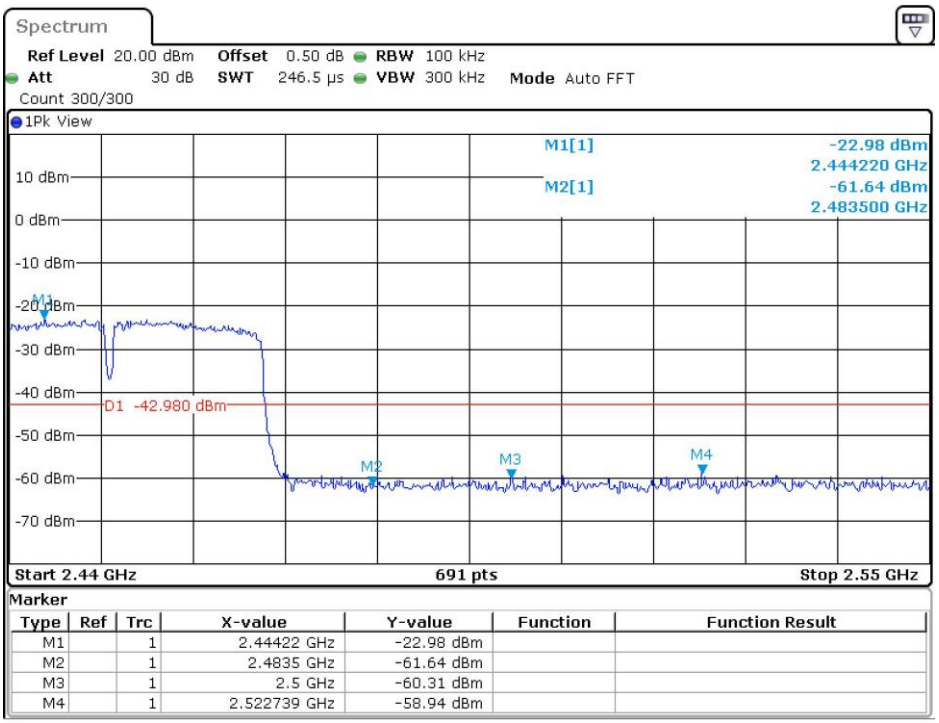


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44422 GHz	-22.98 dBm		
M2		1	2.4835 GHz	-61.64 dBm		
M3		1	2.5 GHz	-60.31 dBm		
M4		1	2.522739 GHz	-58.94 dBm		

Date: 6.MAY.2021 17:10:44

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021 Model: RC684

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

[×] Not required, since all emissions are more than 20dB below fundamental
[ ] See attached data sheet

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD

Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD

Example

Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 dBμV/m

Level in mV/m = Common Antilogarithm [(42 dBμV/m)/20] = 125.9 μV/m

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684

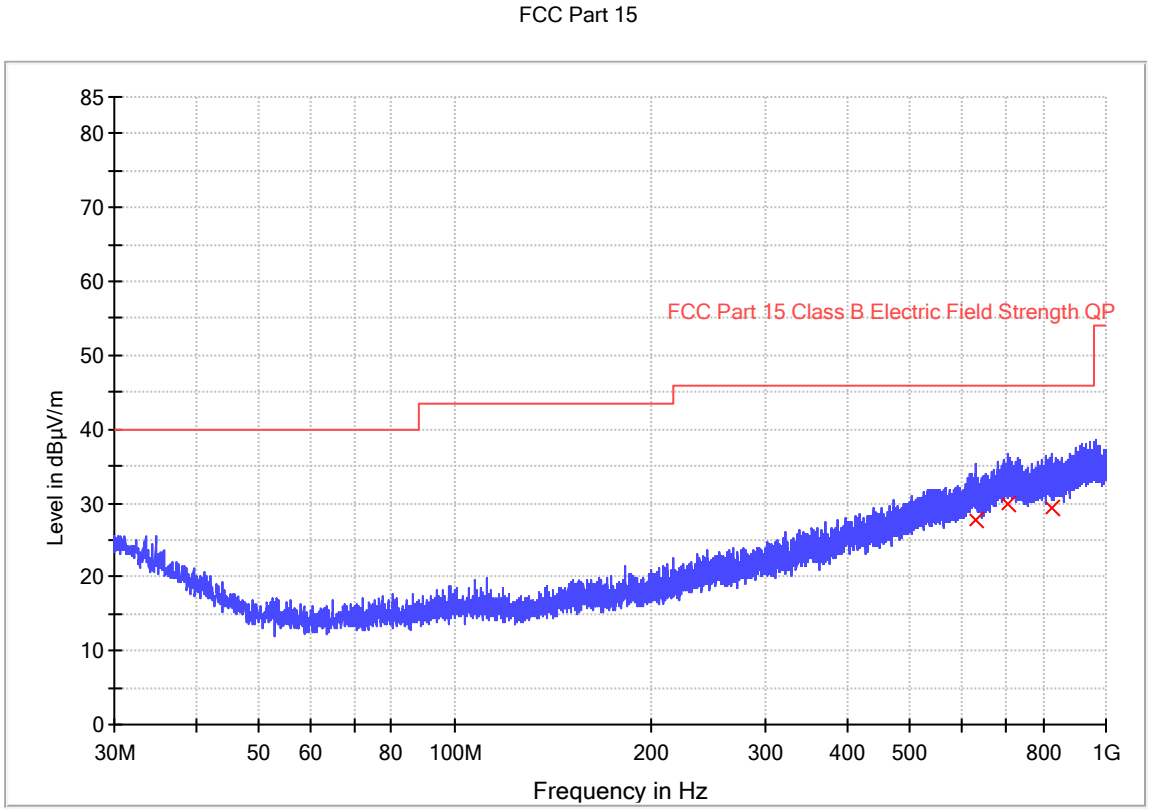
4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 4844.0MHz
is passed by 10.6dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

ANT Polarity: Horizontal

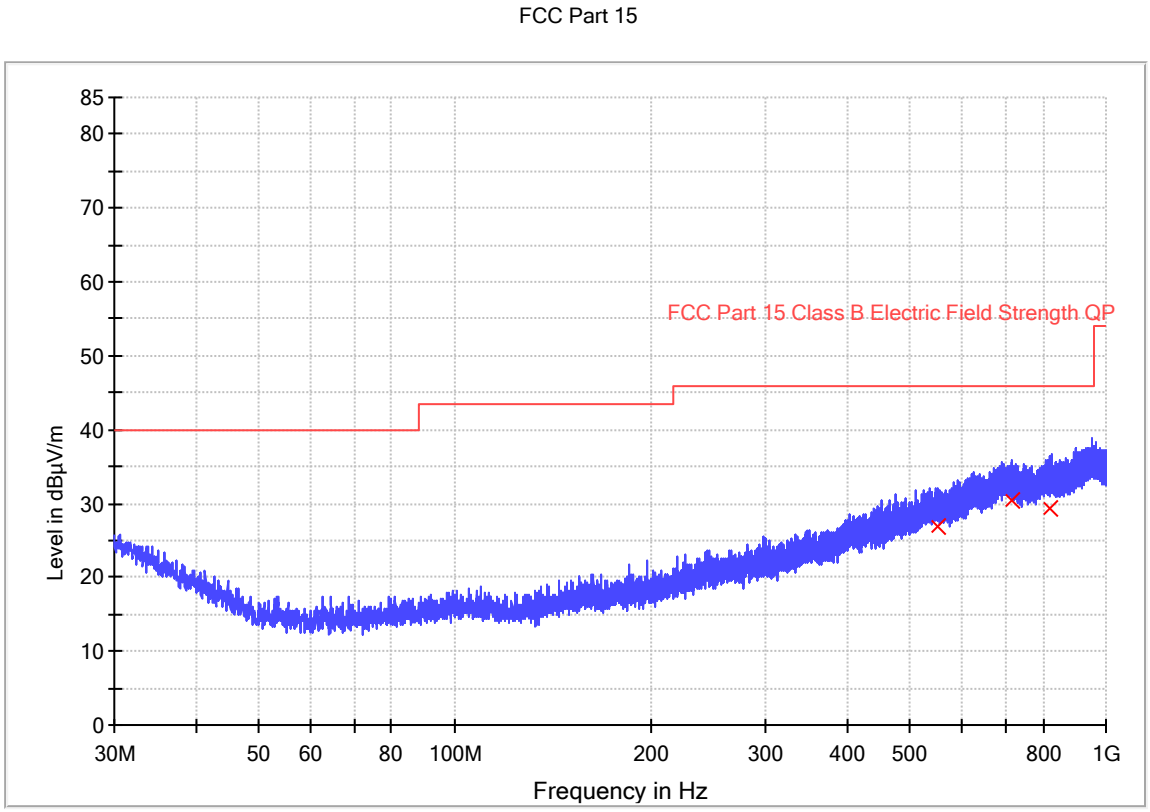


Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
629.524667	27.7	1000.0	120.000	H	24.1	18.3	46.0
709.129333	29.8	1000.0	120.000	H	25.3	16.2	46.0
824.171333	29.4	1000.0	120.000	H	26.1	16.6	46.0

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
3. Margin (dB) = Limit Line(dBµV/m) – Level (dBµV/m)

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

ANT Polarity: Vertical



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
550.857667	26.9	1000.0	120.000	V	22.2	19.1	46.0
716.280000	30.4	1000.0	120.000	V	25.1	15.6	46.0
820.582333	29.4	1000.0	120.000	V	26.1	16.6	46.0

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
3. Margin (dB) = Limit Line(dBµV/m) – Level (dBµV/m)

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	43.0	36.8	33.5	39.7	74.0	-34.3
Horizontal	*2390.000	68.7	36.4	29.1	61.4	74.0	-12.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	37.0	36.8	33.5	33.7	54.0	-20.3
Horizontal	*2390.000	47.2	36.4	29.1	39.9	54.0	-14.1

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11b-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	43.6	36.7	33.4	40.3	74.0	-33.7
Horizontal	*7311.000	45.4	36.6	35.8	44.6	74.0	-29.4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	37.0	36.7	33.4	33.7	54.0	-20.3
Horizontal	*7311.000	39.4	36.6	35.8	38.6	54.0	-15.4

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	45.8	36.8	33.3	42.3	74.0	-31.7
Horizontal	*7386.000	55.7	36.5	29.3	48.5	74.0	-25.5

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	42.6	36.8	33.3	39.1	54.0	-14.9
Horizontal	*7386.000	49.4	36.5	29.3	42.2	54.0	-11.8

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11g-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	53.8	36.8	33.5	50.5	74.0	-23.5
Horizontal	*2390.000	67.7	36.4	29.1	60.4	74.0	-13.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	44.9	36.8	33.5	41.6	54.0	-12.4
Horizontal	*2390.000	47.4	36.4	29.1	40.1	54.0	-13.9

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11g-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	43.9	36.7	33.4	40.6	74.0	-33.4
Horizontal	*7311.000	49.0	36.6	35.8	48.2	74.0	-25.8

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	45.1	36.7	33.4	41.8	54.0	-12.2
Horizontal	*7311.000	42.1	36.6	35.8	41.3	54.0	-12.7

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11g-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	50.0	36.8	33.3	46.5	74.0	-27.5
Horizontal	*7386.000	55.2	36.5	29.3	48.0	74.0	-26.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	45.2	36.8	33.3	41.7	54.0	-12.3
Horizontal	*7386.000	49.4	36.5	29.3	42.2	54.0	-11.8

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n20-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	54.3	36.8	33.5	51.0	74.0	-23.0
Horizontal	*2390.000	63.5	36.4	29.1	56.2	74.0	-17.8

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4824.000	44.4	36.8	33.5	41.1	54.0	-12.9
Horizontal	*2390.000	46.2	36.4	29.1	38.9	54.0	-15.1

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n20-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	54.4	36.7	33.4	51.1	74.0	-22.9
Horizontal	*7311.000	47.4	36.6	35.8	46.6	74.0	-27.4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	44.5	36.7	33.4	41.2	54.0	-12.8
Horizontal	*7311.000	38.2	36.6	35.8	37.4	54.0	-16.6

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n20-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	54.7	36.8	33.3	51.2	74.0	-22.8
Horizontal	*7386.000	64.6	36.5	29.3	57.4	74.0	-16.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4924.000	44.9	36.8	33.3	41.4	54.0	-12.6
Horizontal	*7386.000	45.4	36.5	29.3	38.2	54.0	-15.8

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n40-Channel 03)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4844.000	55.8	36.8	33.5	52.5	74.0	-21.5
Horizontal	*2390.000	66.1	36.4	29.1	58.8	74.0	-15.2

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4844.000	46.7	36.8	33.5	43.4	54.0	-10.6
Horizontal	*2390.000	45.7	36.4	29.1	38.4	54.0	-15.6

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n40-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	54.0	36.7	33.4	50.7	74.0	-23.3
Horizontal	*7311.000	55.1	36.6	35.8	54.3	74.0	-19.7

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4874.000	44.0	36.7	33.4	40.7	54.0	-13.3
Horizontal	*7311.000	36.3	36.6	35.8	35.5	54.0	-18.5

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: TTE Technology, Inc.
Date of Test: 09 May 2021 Model: RC684
Worst Case Operating Mode: Transmitting (802.11n40-Channel 09)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4904.000	55.8	36.8	33.3	52.3	74.0	-21.7
Horizontal	*7356.000	63.3	36.5	29.3	56.1	74.0	-17.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*4904.000	46.6	36.8	33.3	43.1	54.0	-10.9
Horizontal	*7356.000	44.8	36.5	29.3	37.6	54.0	-16.4

NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

4.9 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

[ ] Not required - No digital part

[ ] Test results are attached

[x] Included in the separated report.

Applicant: TTE Technology, Inc.
Date of Test: 06 May 2021
Model: RC684

4.10 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF.*

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	24-May-2019	24-May-2021
SZ185-01	EMI Receiver	R&S	ESCI	100547	22-Dec-2020	22-Dec-2021
SZ061-08	Horn Antenna	ETS	3115	00092346	07-Sep-2019	07-Sep-2021
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	24-May-2019	24-May-2021
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	27-May-2020	27-May-2021
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	27-May-2020	27-May-2021
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	27-May-2020	27-May-2021
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Dec-2018	15-Dec-2021
SZ062-02	RF Cable	RADIALL	RG 213U	--	12-Dec-2020	12-Iun-2021
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	24- Feb-2020	24-Aug -2021
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	24- Feb-2020	24-Aug -2021
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	27-May-2020	27-May-2021

********** End of Report**********