

Klein Tools Inc.

TEST REPORT

SCOPE OF WORK

EMC TESTING—T1290

REPORT NUMBER

260901202GZU-001

ISSUE DATE

21-September-2026

[REVISED DATE]

[-----]

PAGES

74

DOCUMENT CONTROL NUMBER

FCC WIFI

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TEST REPORT

Applicant Name & : Klein Tools Inc.
Address : 450 Bond Street LINCOLNSHIRE IL 60069, USA
Manufacturing Site : SEE Page 4
Intertek Report No : 260901202GZU-001
FCC ID : 2A128-TI290B

Test standards

47 CFR PART 15 Subpart C: 2024 section 15.247

Sample Description

Product : Pro Thermal Imager
Model No. : TI290
Electrical Rating : 5Vdc, 2A or 3.7V li-ion battery, Class III
Serial No. : Test sample 1
Date Received : 01 September 2026
Date Test : 07 September 2026 to 08 September 2026
Conducted

Prepared and Checked By



Dean Liu

Sr. Project Engineer

Approved By:



Strong Yao

Manager

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1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
6 dB Bandwidth (DTS bandwidth)	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10: Clause 11.8	PASS
Maximum Average Conducted Output Power	FCC PART 15 C clause 5.247(b)(3)	ANSI C63.10: Clause 11.9.2.3.1	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10.2	PASS
Out of Band Conducted Emissions	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.11	PASS
Radiated Emission	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.11, 11.12, 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) & 15.205	ANSI C63.10: Clause 11.11 and 11.12	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Remark: N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2020 in the whole report			

Manufacturing Site:

1.Uni-Trend Technology (China) Co., Ltd

No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

2.UNI-TREND TECHNOLOGY (VIETNAM)COMPANY LIMITED

Factories RBF.E & RBF.F, Lot D, Thuan Thanh III Industrial Park, Sub-zone B, Gia Dong Ward, Thuan Thanh Town, Bac Ninh Province, Vietnam

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2.0 General Description

2.1 Product Description

Operating Frequency:	2412 MHz to 2462 MHz for 802.11b/g/n(HT20) 2422 MHz to 2452 MHz for 802.11n(HT40)
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate:	802.11b :1/2/5.5/11 Mbps 802.11g :6/9/12/18/24/36/48/54 Mbps 802.11n(HT20): 6.5/13/19.5/26/39/52/58.5/65/72.2Mbps 802.11n(HT40): 13.5/27/40.5/54/81/108/121.5/135/150 Mbps
Number of Channels	11 Channels for 802.11b/g/n(HT20) 7 Channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type	FPC antenna
Function:	Pro Thermal Imager with 2.4 GHz WIFI
EUT Power Supply:	AC 120V 60 Hz

EUT channels and frequencies list:

For 802.11b/g/n(HT20): test frequencies are lowest channel 1: 2412 MHz, middle channel 6: 2437 MHz and highest channel 11: 2462 MHz.

For 802.11n(HT40): test frequencies are lowest channel 3: 2422 MHz, middle channel 6: 2437 MHz and highest channel 9: 2452 MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	

2.2 Related Submittal(s) Grants

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This is an application for certification of Pro Thermal Imager which has 2.4GHz WIFI function.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All tests were performed at:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room102/104, No 203, Kezhu Road, Science City, Huangpu District, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

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, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V/60Hz supply.

The signal is maximized through rotation and placement in the three orthogonal axes. 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. The spurious emissions more than 20 dB below the permissible value are not reported.

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For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

Description	Manufacturer	Model No.	SN/Version	Supplied by
For fixing frequency	NAGATA Shinya	teraterm	Version:4.90	Client

3.3 Special Accessories

No special accessories used.

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3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.31%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.31%
3	Dwell Time	1.19%
4	Maximum Peak Conducted Output Power	1.98 dB
5	Peak Power Spectral Density	1.98 dB
6	Out of Band Conducted Emissions	1.98 dB
7	Band edges measurement	1.98 dB
8	Radiated Emissions	3.64 dB (9 kHz-30 MHz)
		4.26 dB (30 MHz-1 GHz)
		4.96 dB (1 GHz-18 GHz)
		5.16 dB (18 GHz-40 GHz)
9	Conducted Emissions at Mains Terminals	2.23 dB
10	Temperature	0.81 °C
11	Humidity	1.73%
12	Time	1.19%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

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

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

3.5 Equipment Modification

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

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

3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:
Cable

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Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
USB extension cord	USB-01	USB	1.0 m(shielded)	WIK
USB cable	--	USB C	1 m(shielded)	applicant

Support equipment

Description	Model No.	Rating	Supplied by
NoteBook	Latitude 5420	100-240VAC,50/60Hz	Intertek
Control board	WIK	--	WIK
Adapter	A1401	100-240VAC,50/60Hz 0.5A	Intertek

Remark:

After the frequency was fixed, Notebook and Fix board were removed out of the Chamber before test.

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4.0 Measurement Results

4.1 Antenna Requirement

Standard requirement:

15.203 requirement:

For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best-case gain of 2.8 dBi is provided by applicant.

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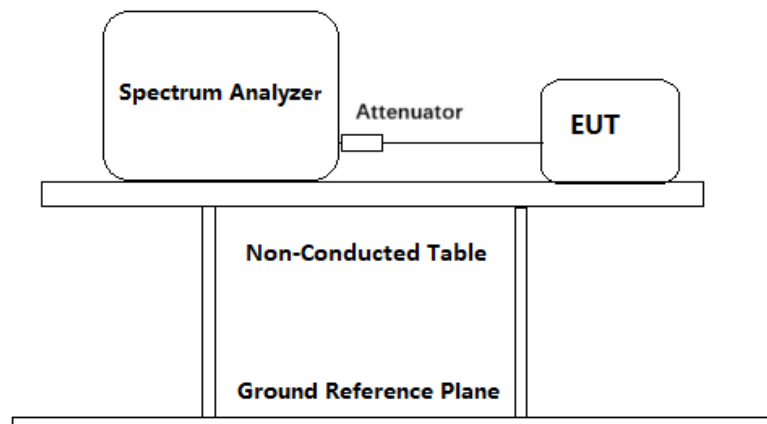
4.2 6 dB Bandwidth (DTS bandwidth)

Test Requirement: FCC Part 15 C section 15.247
(a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Method: ANSI C63.10: Clause 11.8

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz
 - b) Set the VBW $\geq [3 \times \text{RBW}]$
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep $\geq$ auto couple
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

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3. Repeat until all the test status is investigated.
4. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

6 dB bandwidth

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured 6dB bandwidth (MHz)	Limit	Result
1	2412	802.11b	1 Mbps	9.26	≥500KHz	Pass
6	2437		1 Mbps	9.20		Pass
11	2462		1 Mbps	9.26		Pass
1	2412	802.11g	6 Mbps	16.61		Pass
6	2437		6 Mbps	16.56		Pass
11	2462		6 Mbps	16.56		Pass
1	2412	802.11n (HT20)	6.5 Mbps	17.77		Pass
6	2437		6.5 Mbps	17.60		Pass
11	2462		6.5 Mbps	17.71		Pass
3	2422	802.11n (HT40)	13.5 Mbps	36.70		Pass
6	2437		13.5 Mbps	36.82		Pass
9	2452		13.5 Mbps	36.93		Pass

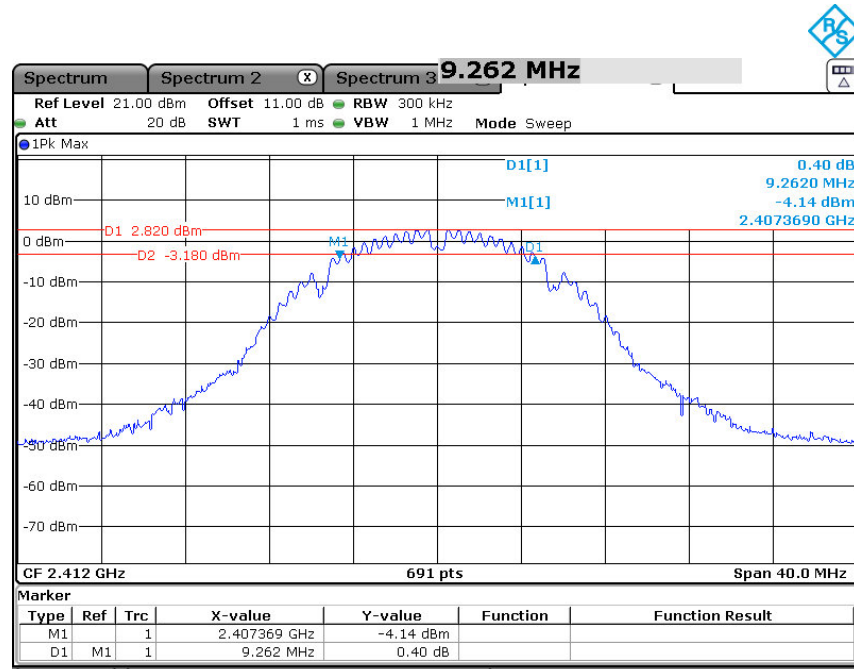
TEST REPORT

Result plot as follows:

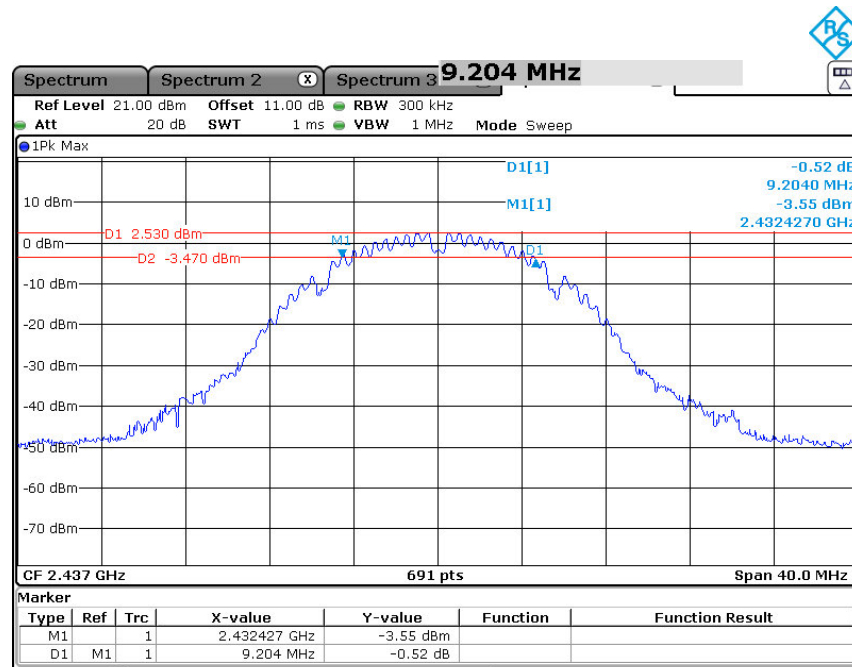
6dB bandwidth:

802.11b mode with 1 Mbps data rate

Channel 1: 2.412GHz

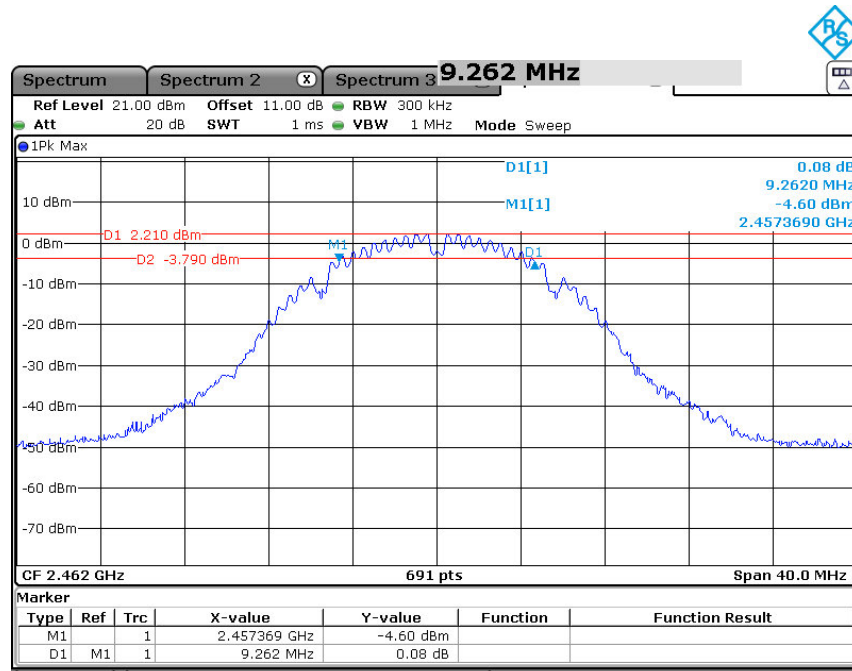


Channel 6: 2.437GHz:



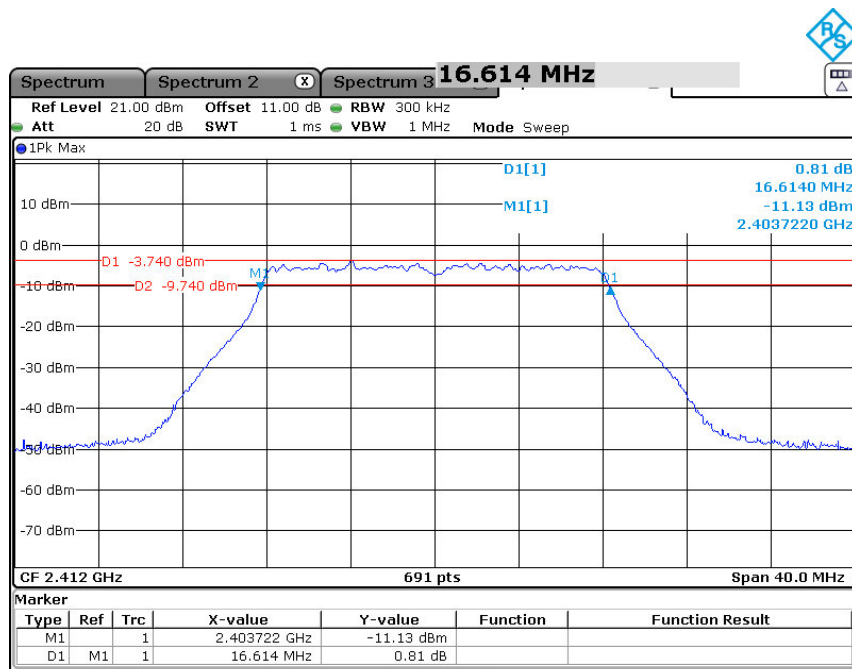
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Channel 11: 2.462GHz:



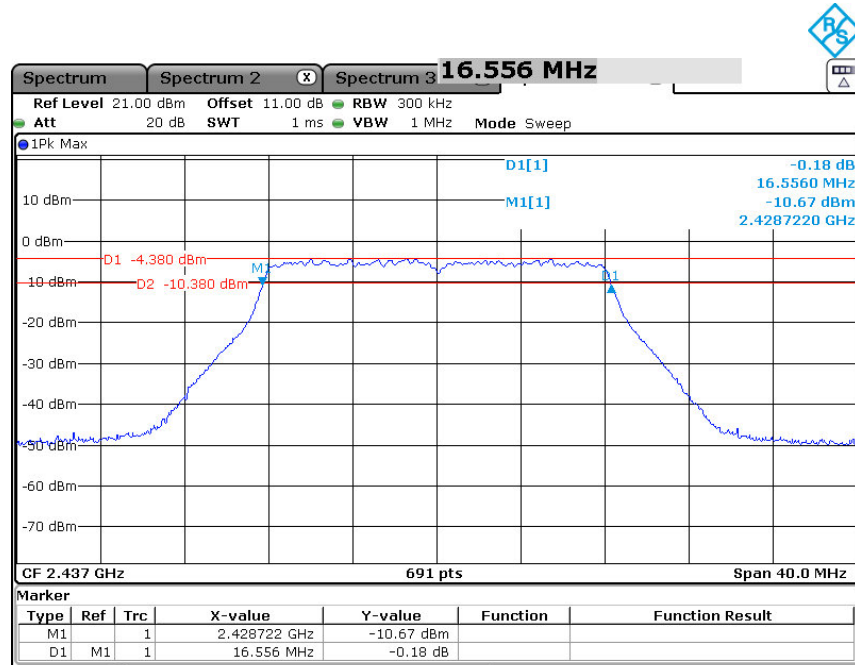
802.11g mode with 6Mbps data rate

Channel 1: 2.412GHz:

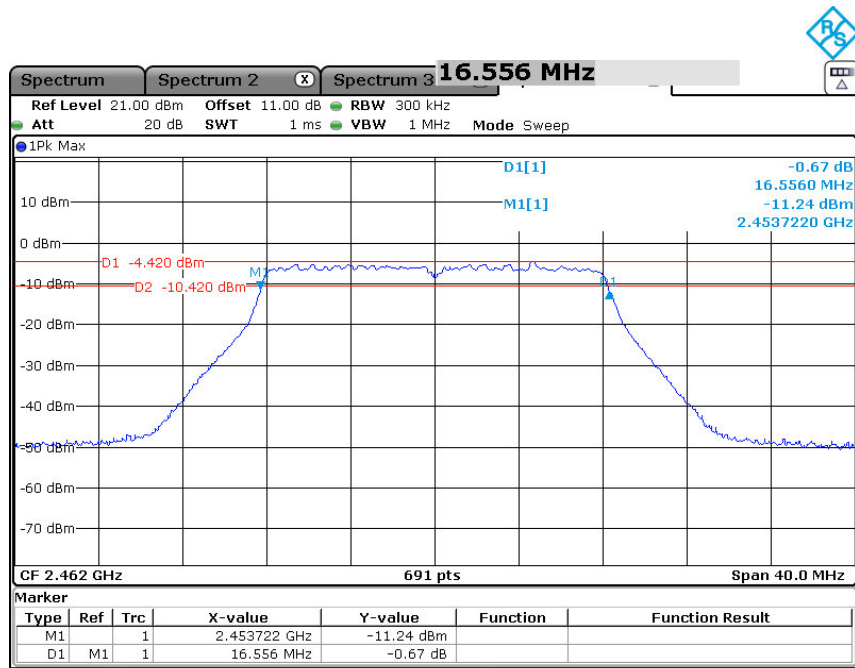


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Channel 6: 2.437GHz:



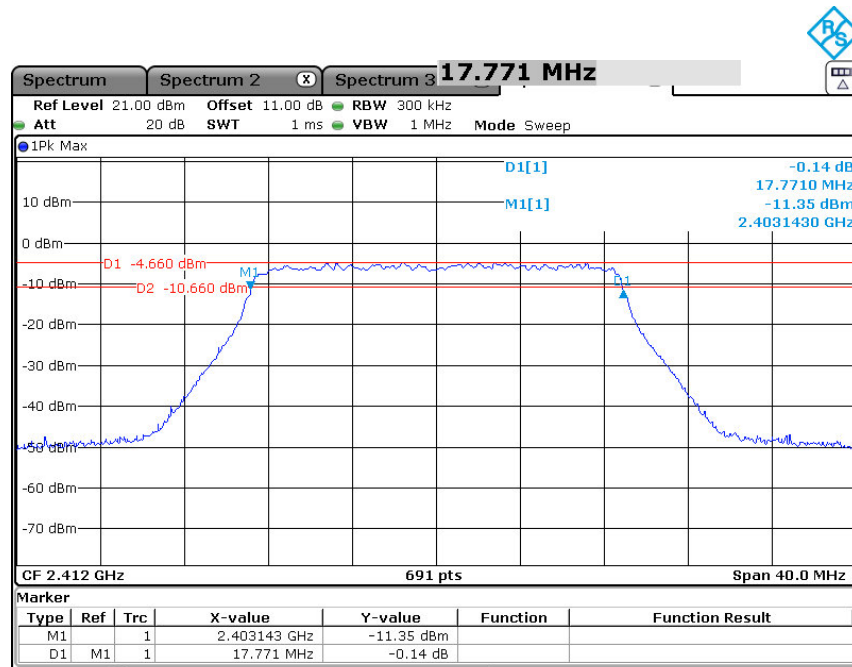
Channel 11: 2.462GHz:



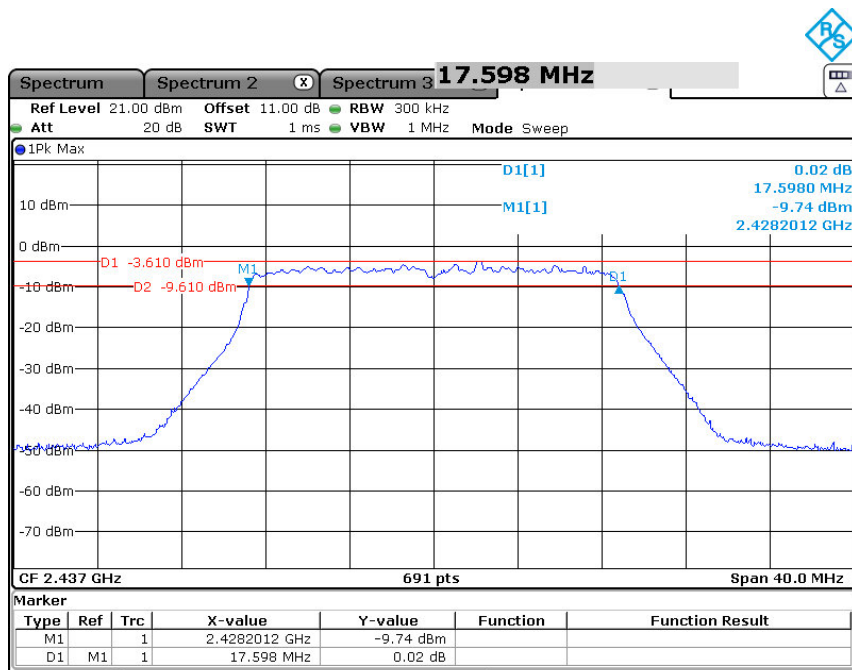
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802.11n(HT20) mode with 6.5 Mbps data rate

Channel 1: 2.412GHz:

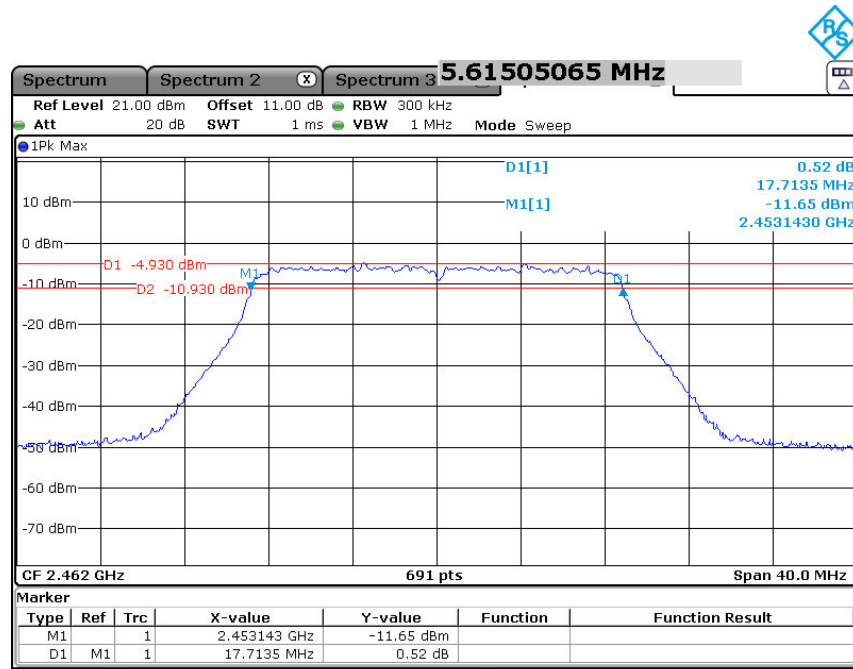


Channel 6: 2.437GHz:



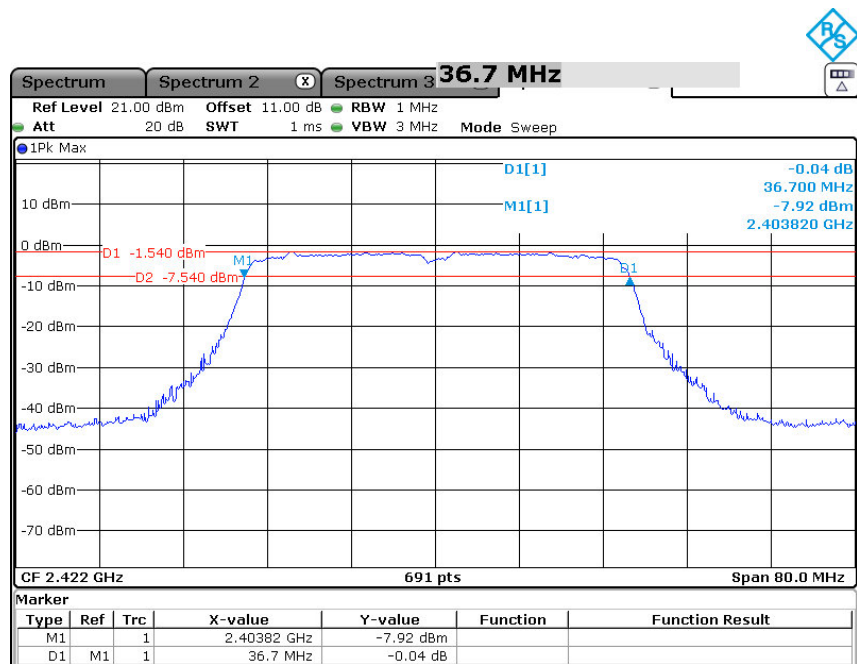
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Channel 11: 2.462GHz:



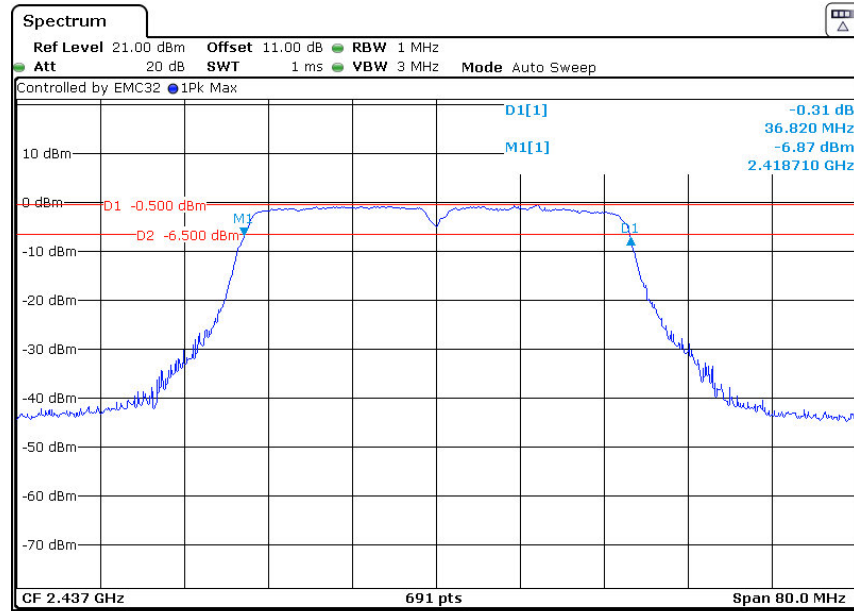
802.11n(HT40) mode with 13.5 Mbps data rate

Channel 3: 2.422GHz:

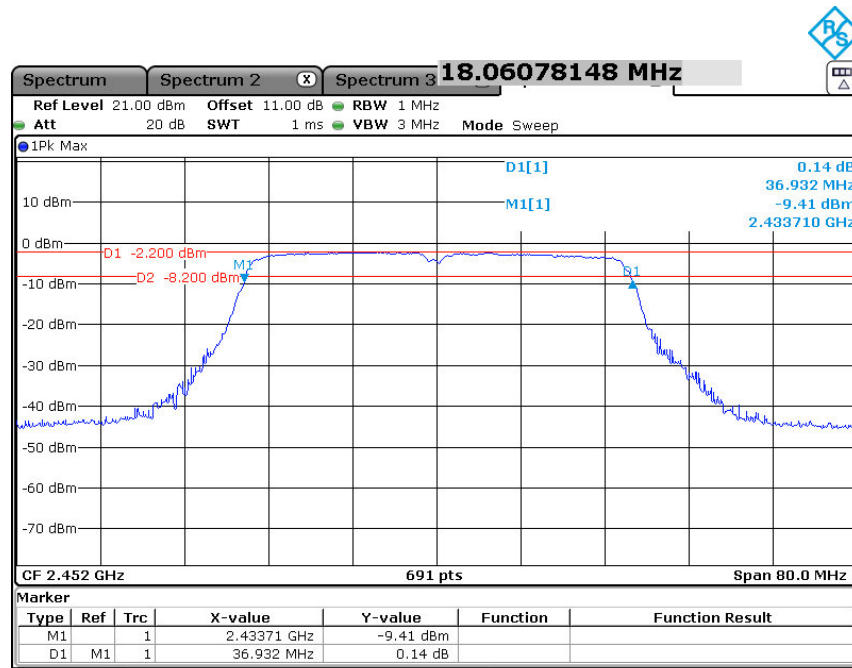


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Channel 6: 2.437GHz:



Channel 9: 2.452GHz:



TEST REPORT

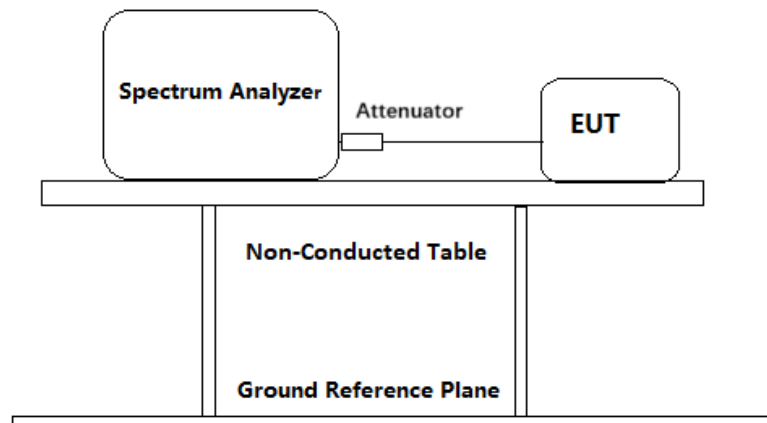
4.3 Duty Cycle

Test Requirement: FCC KDB 558074 D01 15.247 Meas Guidance v05r02, Clause 6

Test Method: ANSI C63.10: Clause 11.6

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyser:
 - a) Set the center frequency of the instrument to the center frequency of the transmission.
 - b) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Span = Zero span
 - c) Set $VBW \geq RBW$. Set detector = peak or average. Trace mode = Free run
3. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

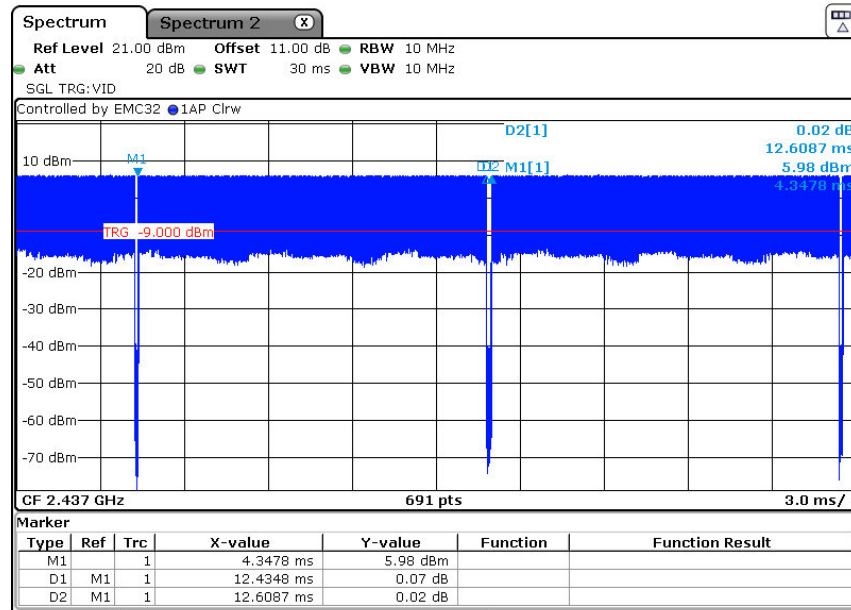
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Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
6	2437	802.11b	12.43	12.61	98.57
6	2437	802.11g	2.06	2.17	94.93
6	2437	802.11n (HT20)	1.92	2.09	91.86
6	2437	802.11n (HT40)	0.94	1.08	87.04

Result plot as follows:

802.11b mode

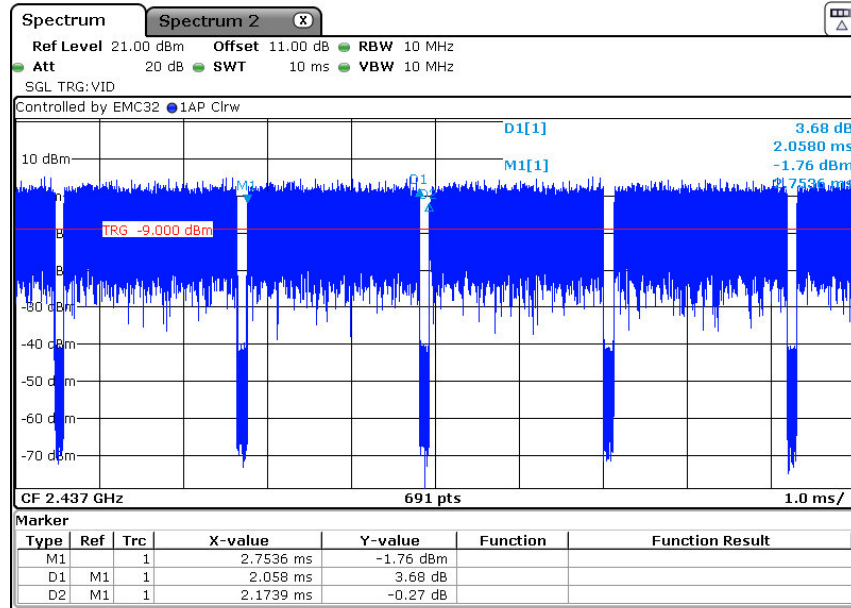
Channel 6: 2437 MHz:



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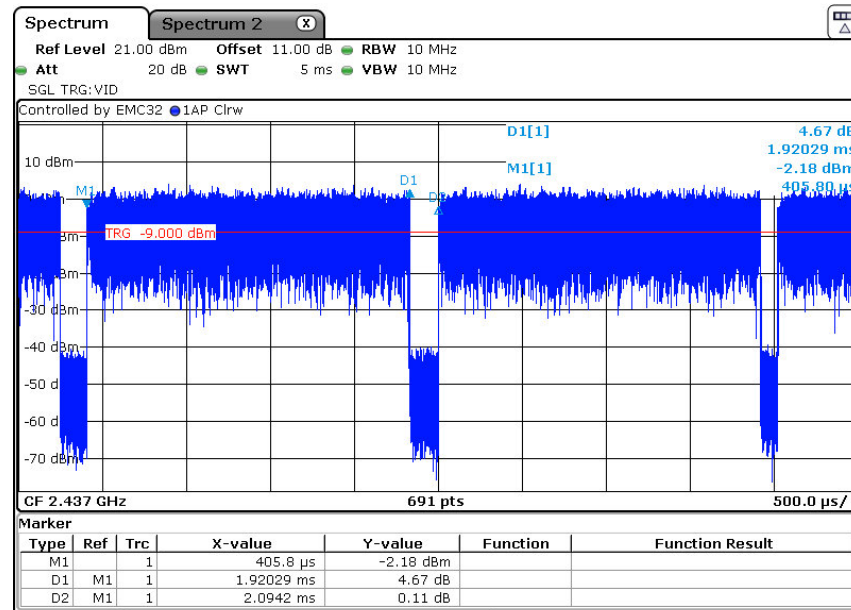
802.11g mode

Channel 6: 2437 MHz:



802.11n(HT 20) mode

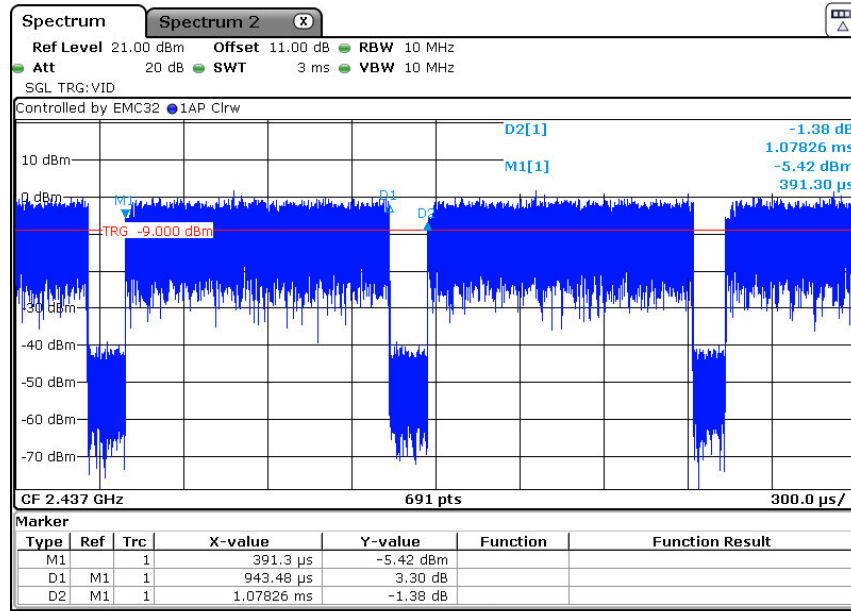
Channel 6: 2437 MHz:



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802.11n(HT 40) mode

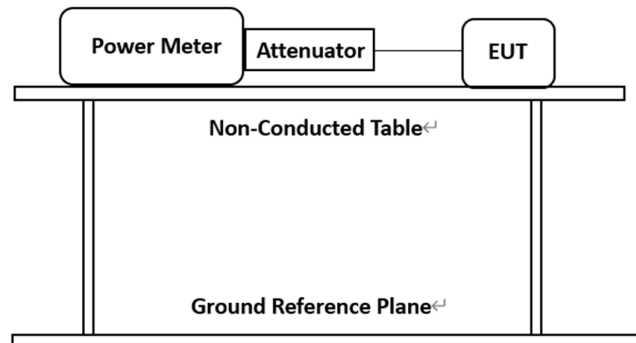
Channel 6: 2437 MHz:



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4.4 Maximum Average Conducted Output Power

Test Requirement:	FCC Part 15 C section 15.247 Section 15.247: (b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Method:	ANSI C63.10: Clause 11.9.2.3.1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the power meter.
2. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
3. If the EUT is transmitting at all times, it must be transmitting at its maximum power control level.
4. If the EUT does not transmit continuously, measure the duty cycle and adjust the measurement in dBm by adding $10\log(1/x)$ where x is the duty cycle of transmitter output signal. This measurement is an average over both the ON and OFF periods of the transmitter.
5. Report the worst case.

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Used Test Equipment List

Power meter. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	Maximum Conducted output power (dBm)	Limit	Result
1	2412	802.11b	1 Mbps	11.68	1W (30dBm)	Pass
6	2437		1 Mbps	11.58		Pass
11	2462		1 Mbps	11.11		Pass
1	2412	802.11g	6 Mbps	5.85		Pass
6	2437		6 Mbps	5.65		Pass
11	2462		6 Mbps	5.45		Pass
1	2412	802.11n (HT20)	6.5 Mbps	5.75		Pass
6	2437		6.5 Mbps	5.77		Pass
11	2462		6.5 Mbps	5.28		Pass
3	2422	802.11n (HT40)	13.5 Mbps	5.84		Pass
6	2437		13.5 Mbps	5.78		Pass
9	2452		13.5 Mbps	5.68		Pass

Remark:

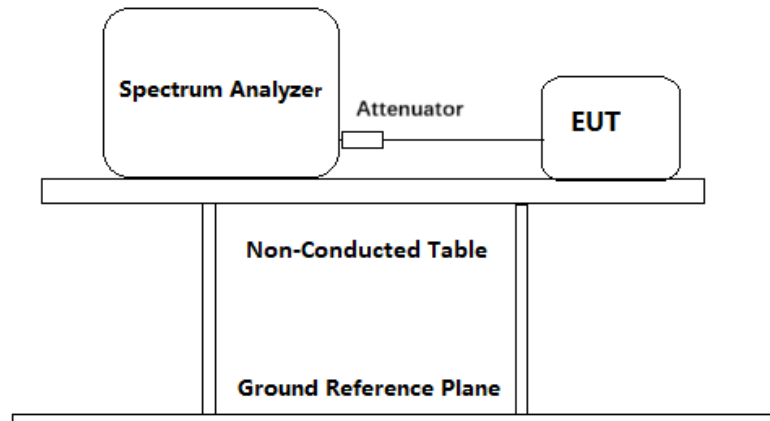
The measured power in the table has considered the compensation of cable loss, attenuator and duty cycle.

The unit does meet the FCC requirements.

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4.5 Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10: Clause 11.10.2
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable(cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer:
 - a) Set analyzer center frequency to DTS channel center frequency.
 - b) Set the span= $1.5 \times \text{DTS bandwidth}$.
 - c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = RMS.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.

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- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
3. Measure the Power Spectral Density of the test frequency with special test status.
 4. Repeat until all the test status is investigated.
 5. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Mode	Measured PSD (dBm/3kHz)	10 log (1/D)	Average PSD (dBm/3kHz)	Limit	Result
1	2412	802.11b	-19.82	0.06	-19.76	8dBm/ 3 KHz	Pass
6	2437		-18.43	0.06	-18.37		Pass
11	2462		-14.38	0.06	-14.32		Pass
1	2412	802.11g	-28.38	0.23	-28.15		Pass
6	2437		-27.09	0.23	-26.86		Pass
11	2462		-22.91	0.23	-22.68		Pass
1	2412	802.11n (HT20)	-28.38	0.37	-28.01		Pass
6	2437		-26.91	0.37	-26.54		Pass
11	2462		-23.23	0.37	-22.86		Pass

Channel No.	Frequency (MHz)	Mode	Measured PSD (dBm/30kHz)	10 log (1/D)	Average PSD (dBm/30kHz)	Limit	Result
3	2422	802.11n (HT40)	-22.65	0.60	-22.59	8dBm/ 3 KHz	Pass
6	2437		-21.05	0.60	-20.99		Pass
9	2452		-18.33	0.60	-18.27		Pass

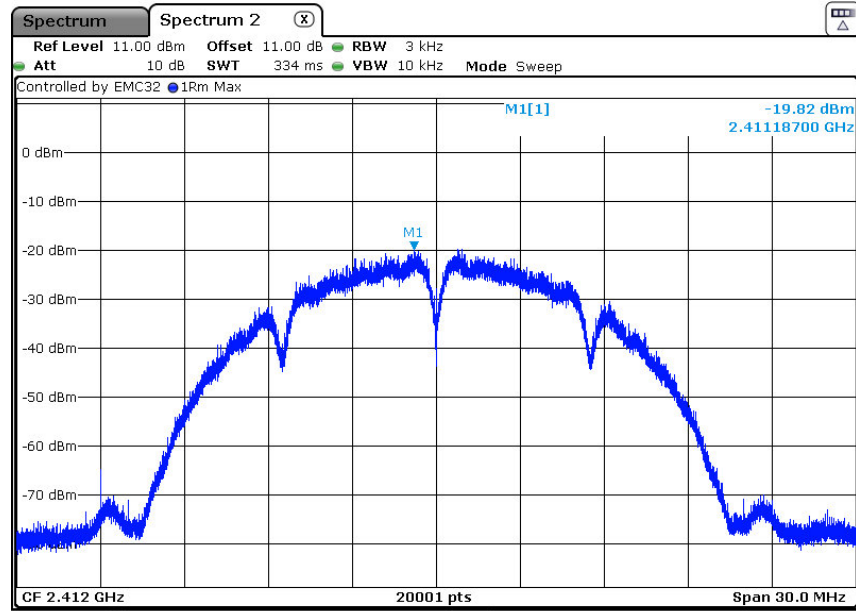
Note: Average PSD= Measured PSD+10 log (1/D)

TEST REPORT

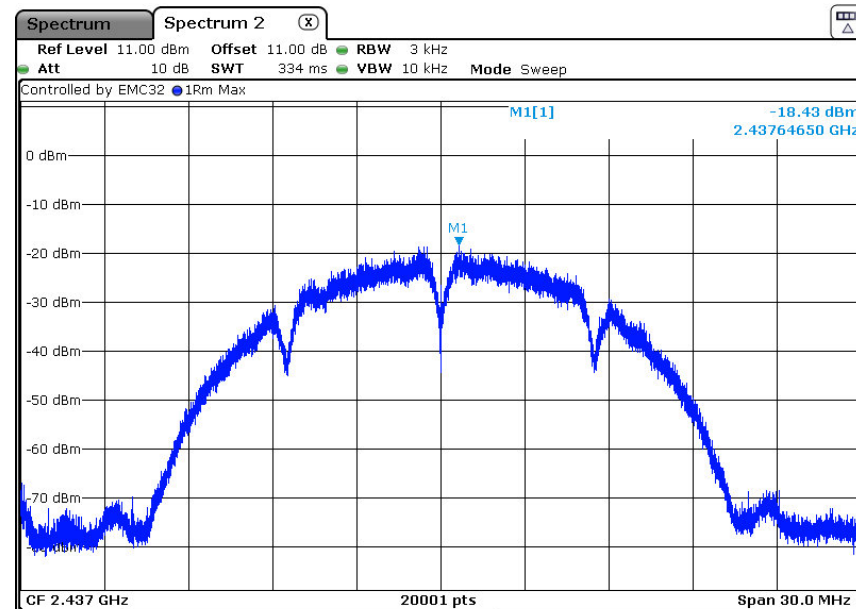
Result plot as follows:

802.11b mode with 1 Mbps data rate

Channel 1: 2.412GHz:

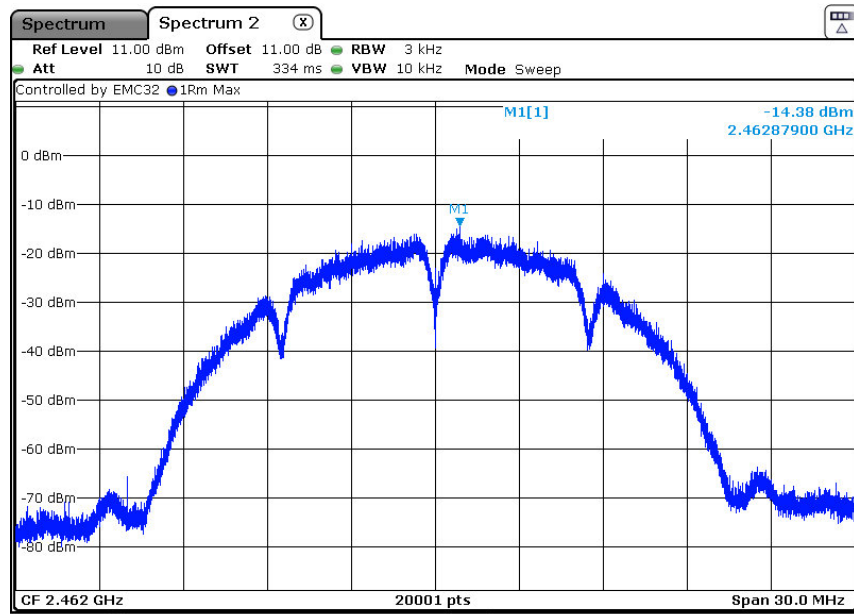


Channel 6: 2.437GHz:

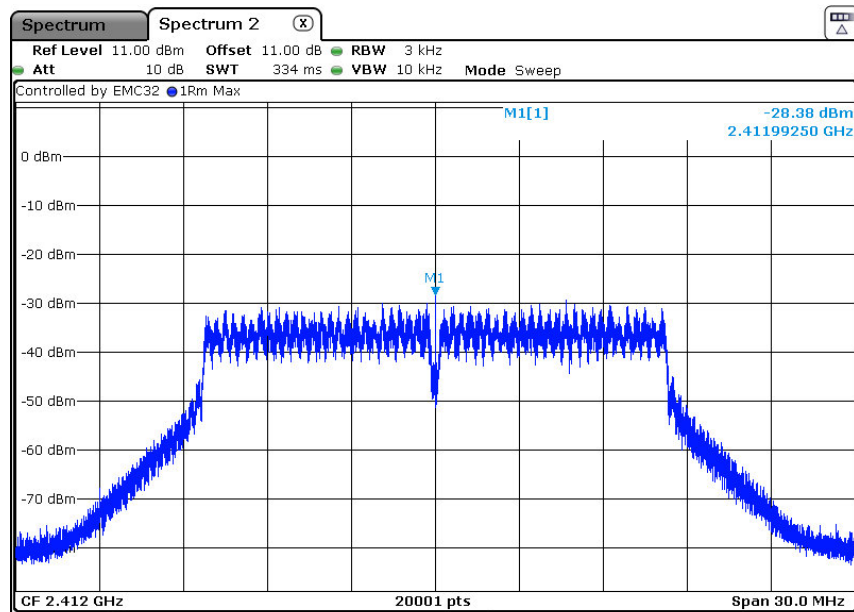


Channel 11: 2.462GHz:

TEST REPORT

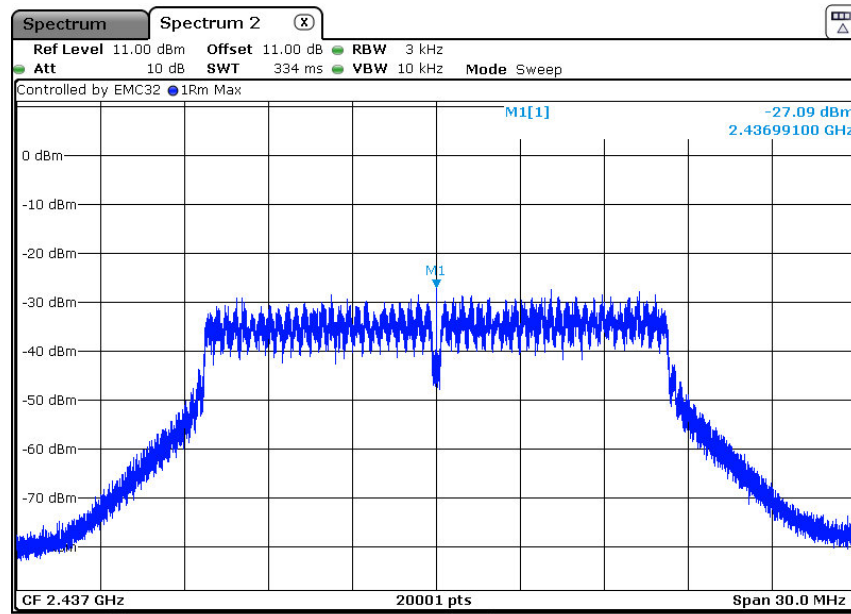


802.11g mode with 6 Mbps data rate
Channel 1: 2.412GHz:

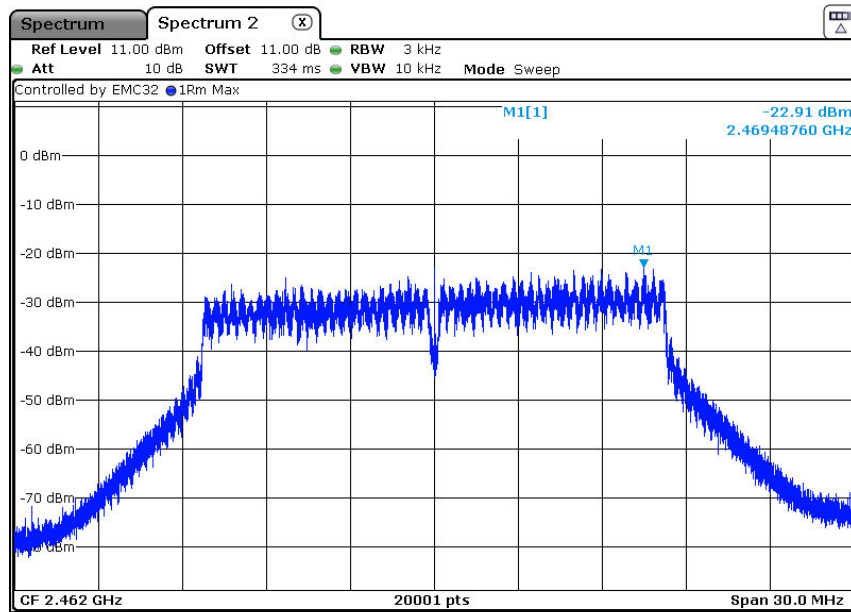


Channel 6: 2.437GHz:

TEST REPORT

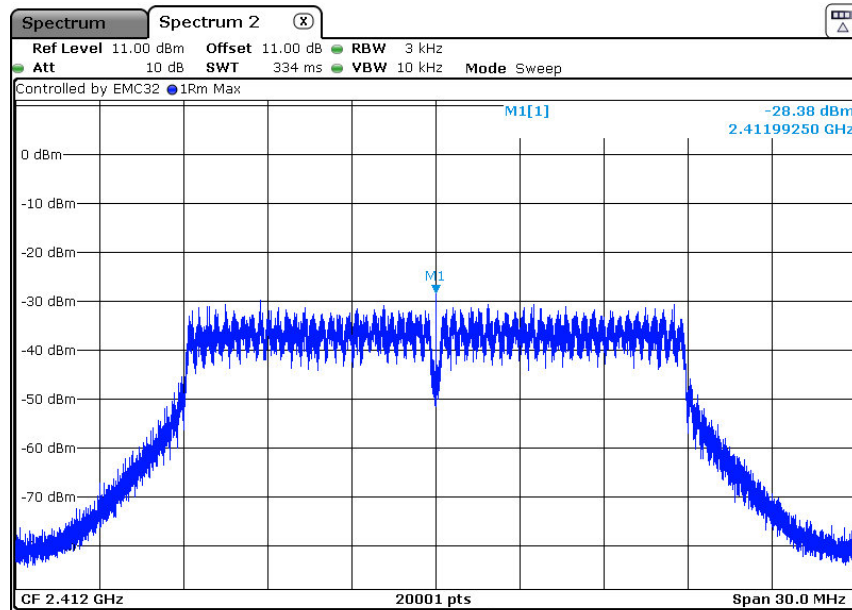


Channel 11: 2.462GHz:

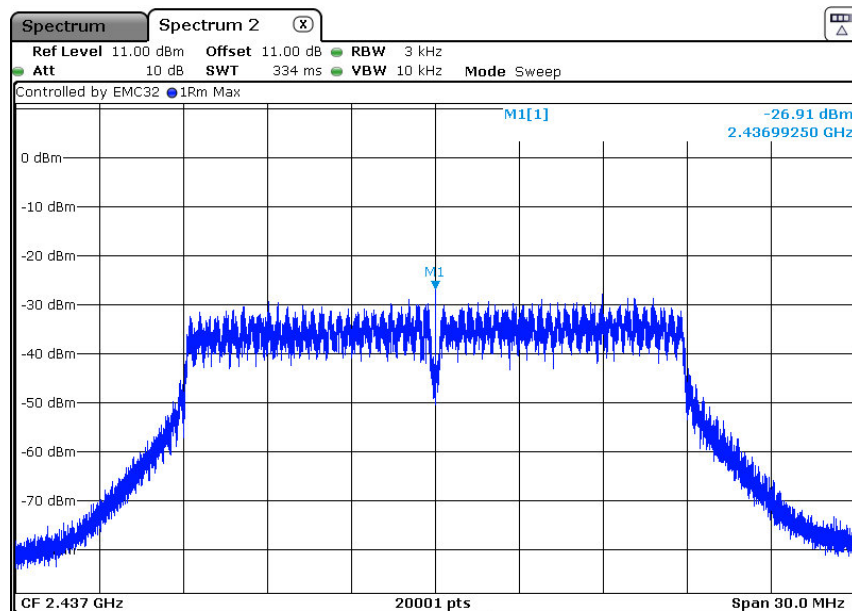


TEST REPORT

802.11n(HT20) mode with 6.5Mbps data rate
Channel 1: 2.412GHz:

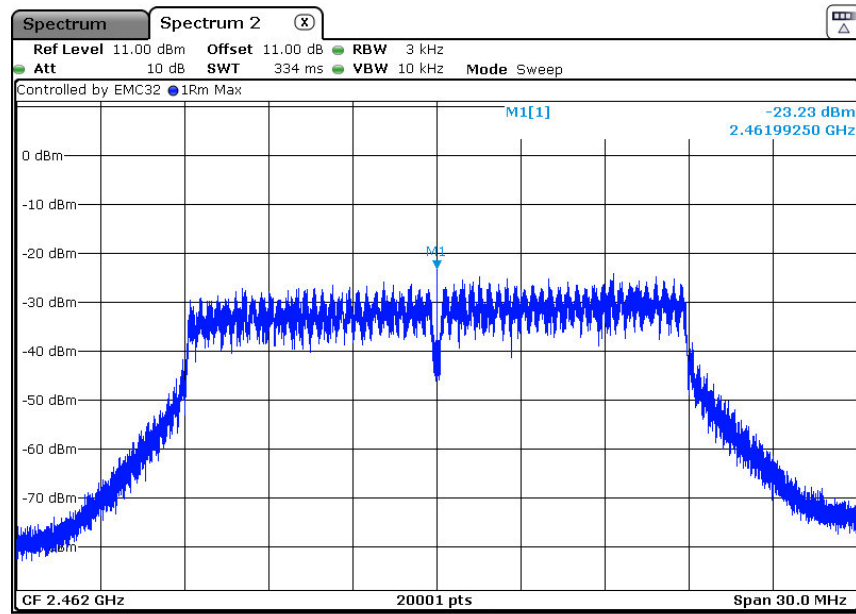


Channel 6: 2.437GHz:



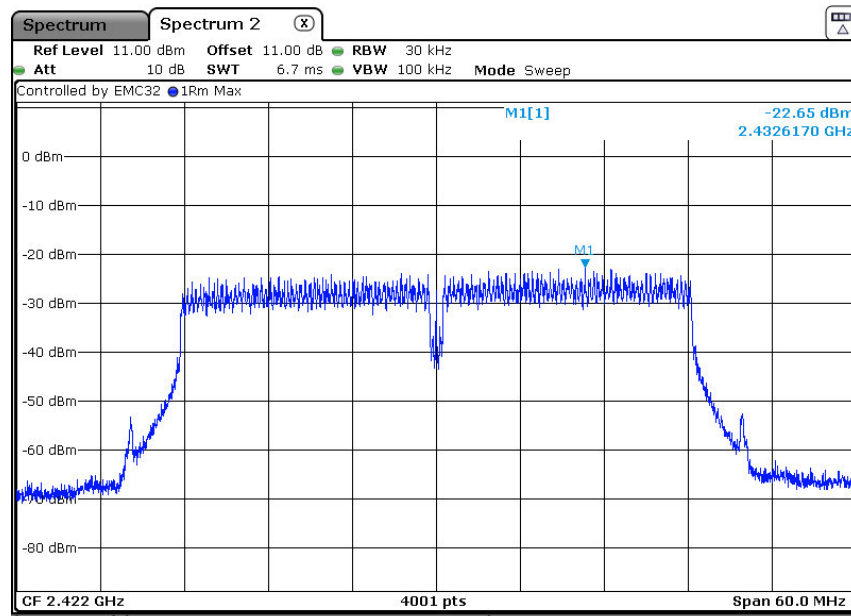
Channel 11: 2.462GHz:

TEST REPORT



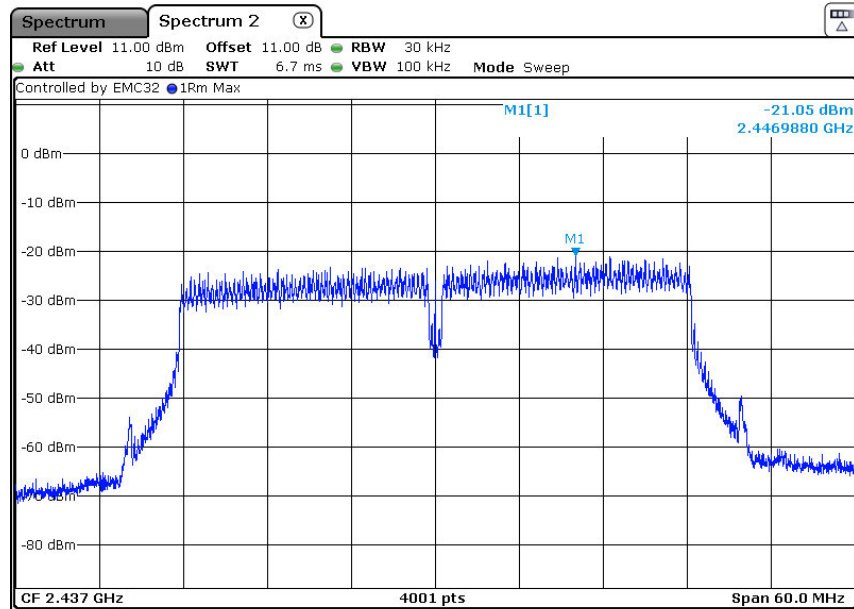
802.11n(HT40) mode with 13.5Mbps data rate

Channel 3: 2.422GHz:

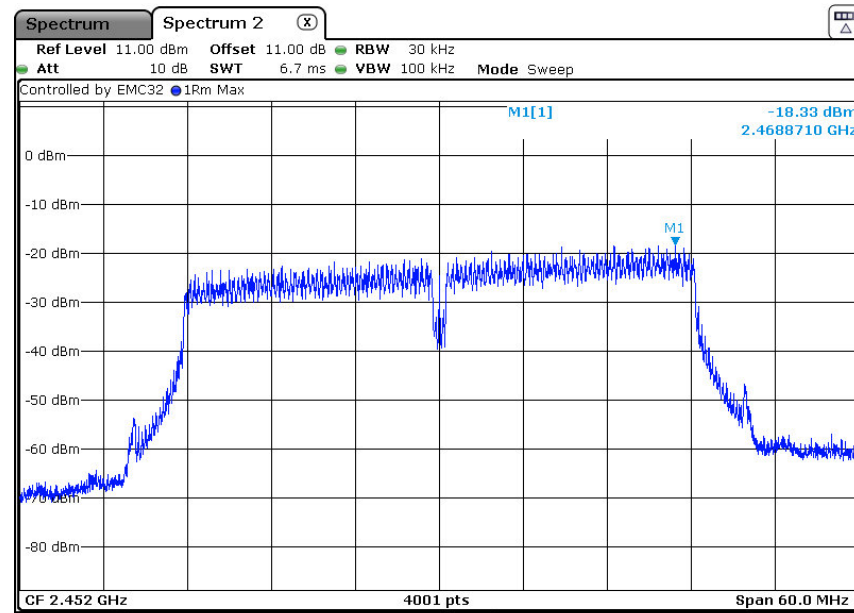


Channel 6: 2.437GHz:

TEST REPORT



Channel 9: 2.452GHz:



4.6 Out of Band Conducted Emissions

Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is

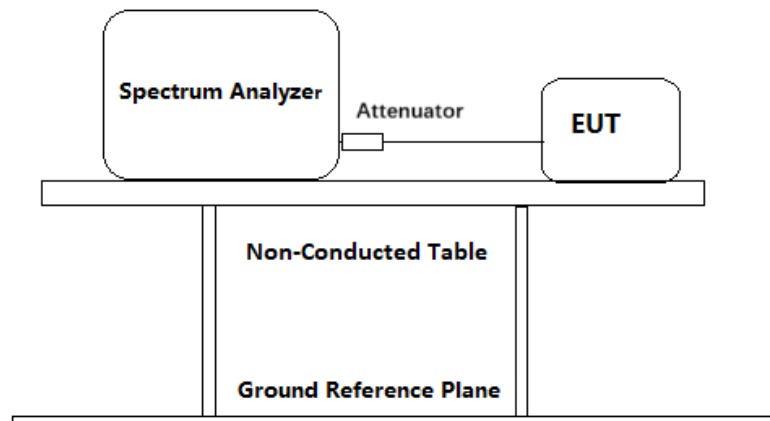
TEST REPORT

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Method: ANSI C63.10: Clause 11.11

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Establish a reference level by using the following procedure:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to $\geq 1.5 \times$ DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $\geq [3 \times$ RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

TEST REPORT

3. Emission level measurement
 - a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
4. Measure the Conducted unwanted Emissions of the test frequency with special test status.
5. Repeat until all the test status is investigated.
6. Report the worst case.

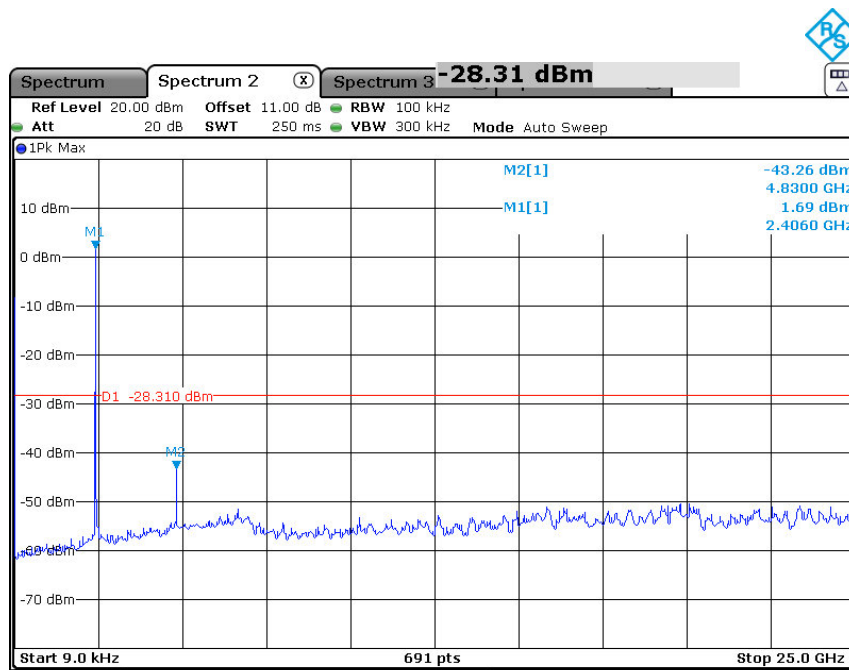
Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Result plot as follows:

802.11b mode with 1 Mbps data rate

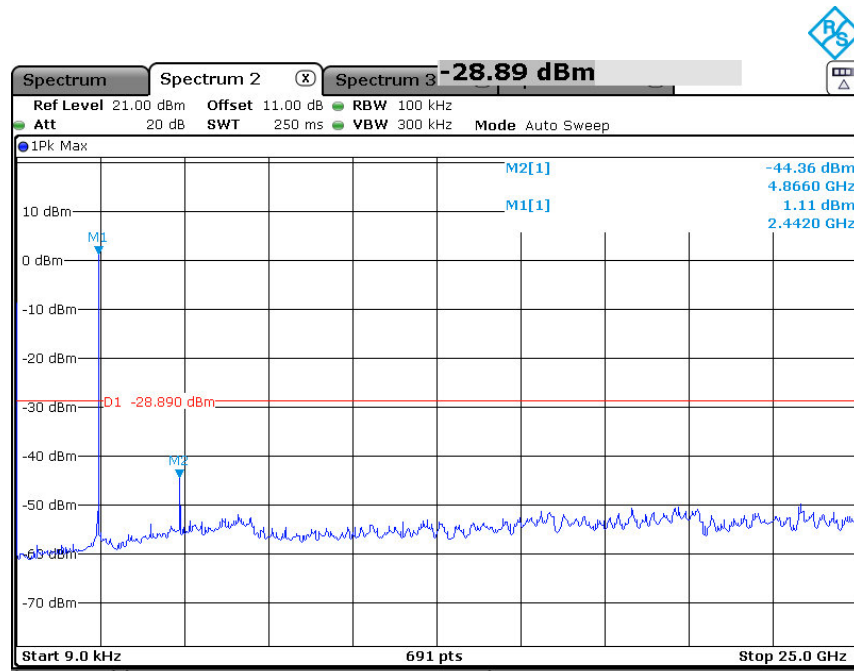
Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

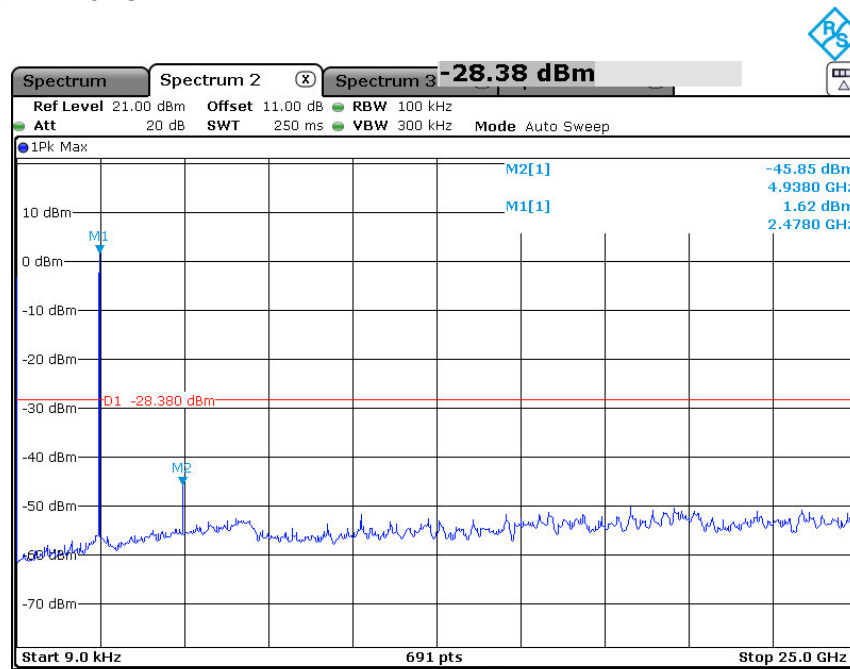
TEST REPORT

Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11:2.462 GHz:

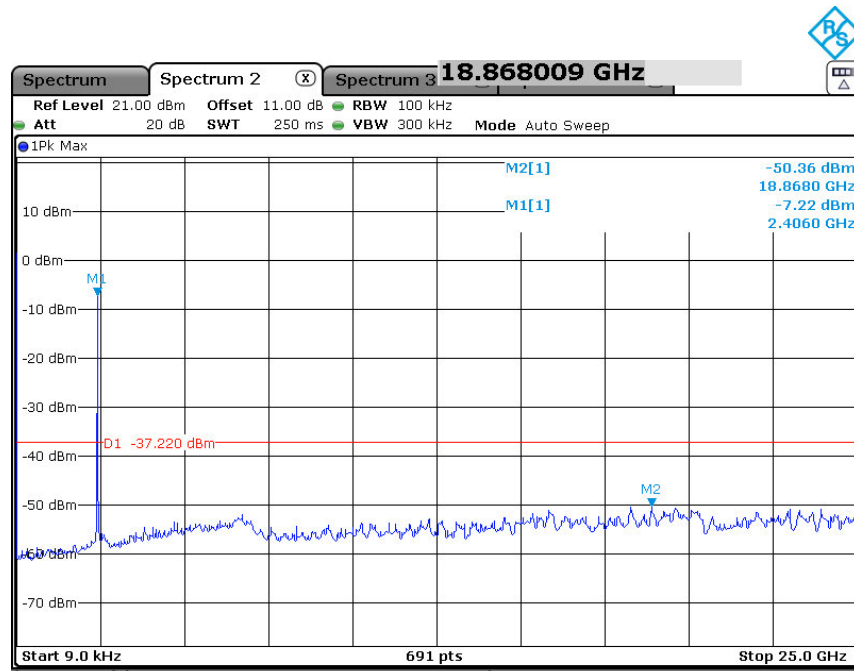


In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

TEST REPORT

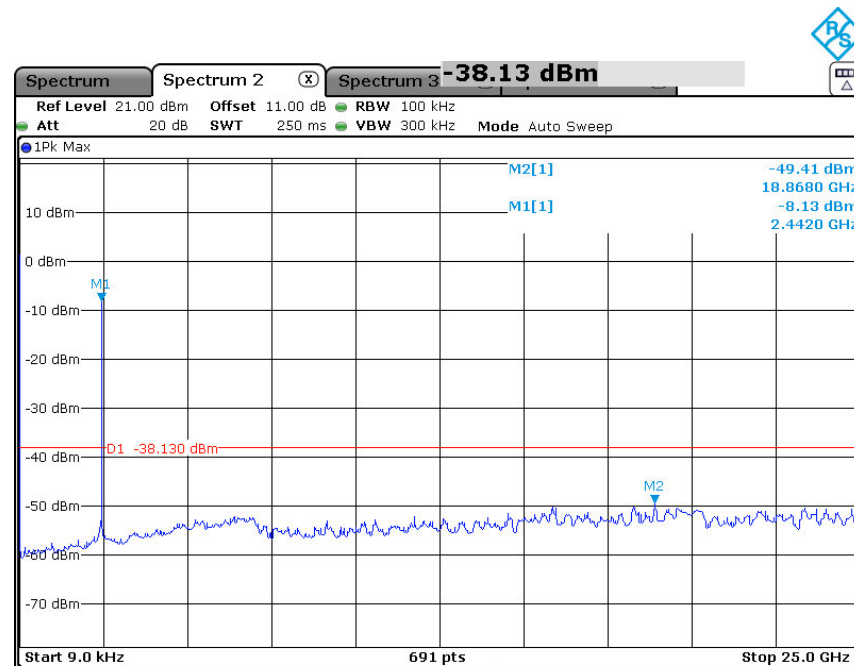
802.11g mode with 6 Mbps data rate

Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

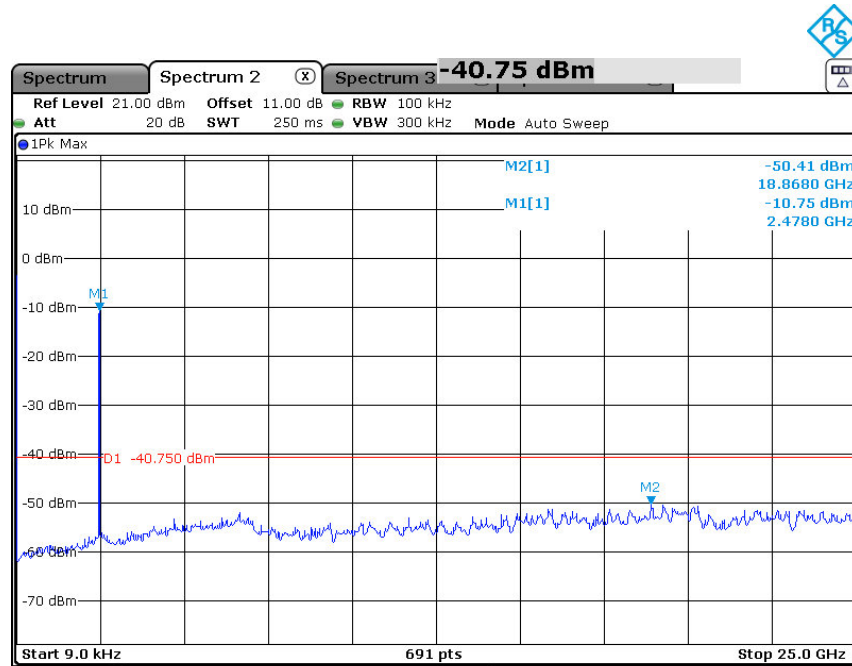
Channel 6: 2.437GHz:



TEST REPORT

In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11: 2.462 GHz:

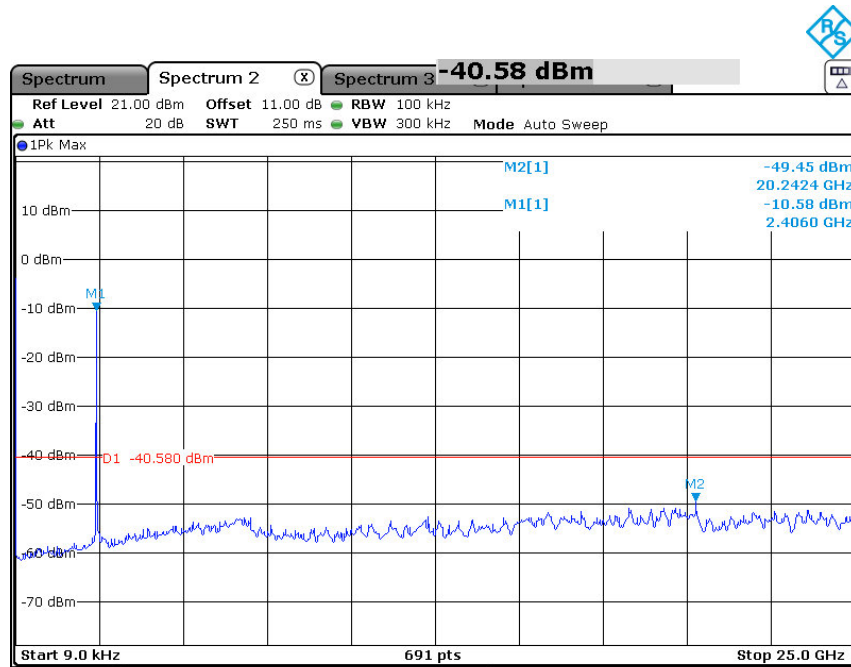


In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

802.11n(HT20) mode with 6.5 Mbps data rate

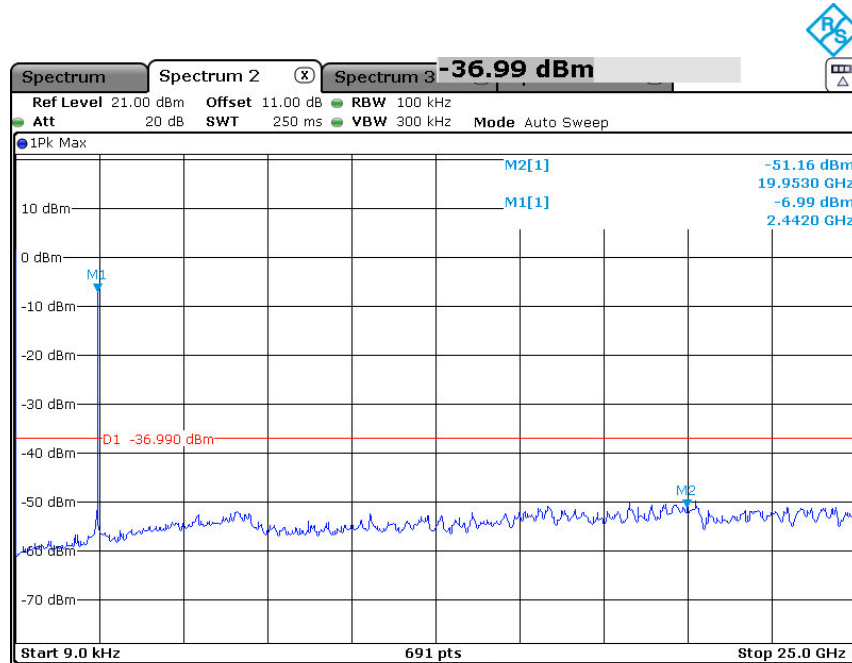
Channel 1: 2.412GHz:

TEST REPORT



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

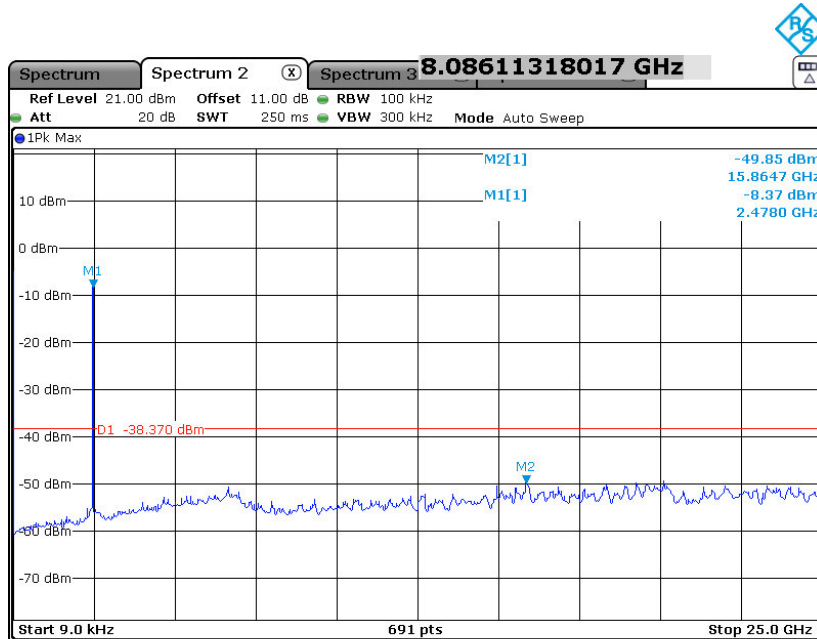
Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11: 2.462 GHz:

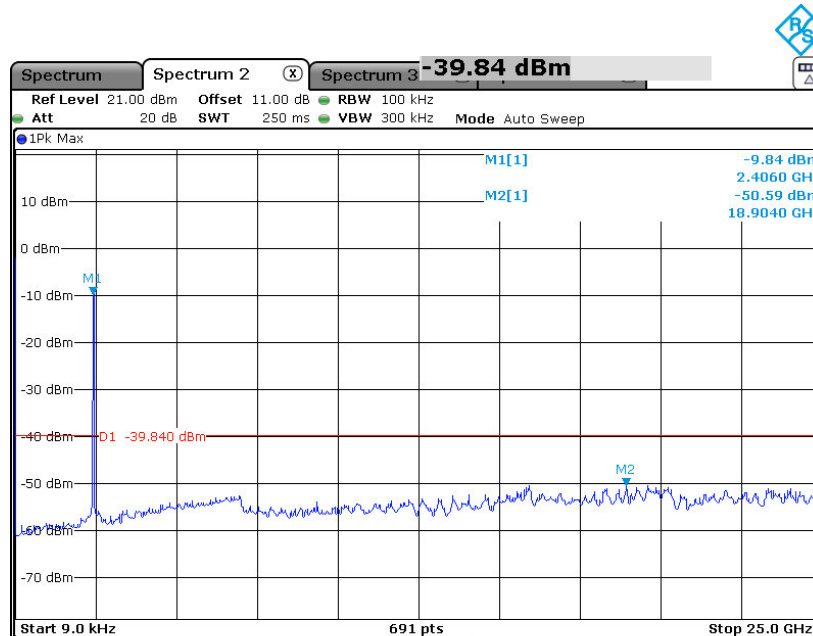
TEST REPORT



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

802.11n(HT40) mode with 13.5 Mbps data rate

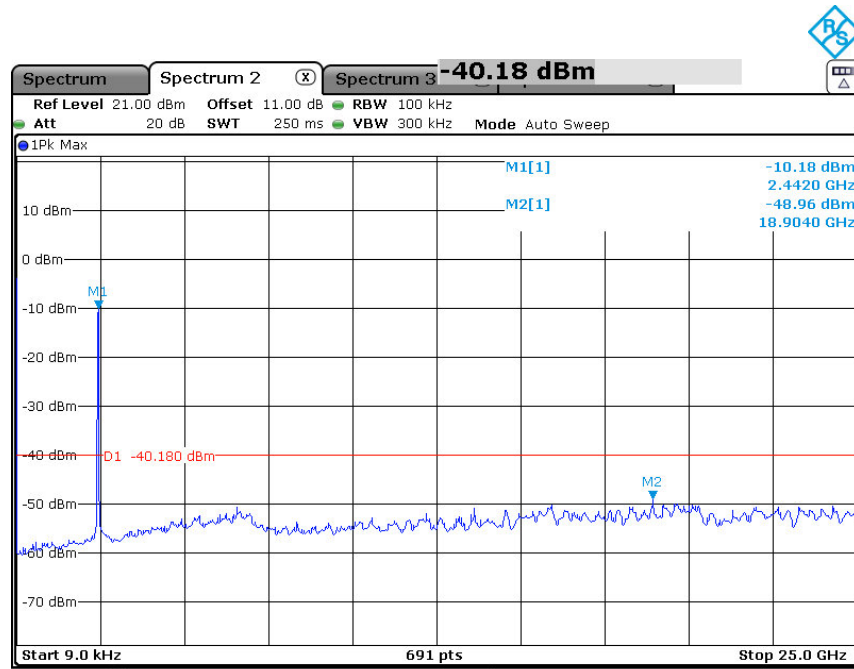
Channel 3: 2.422GHz:



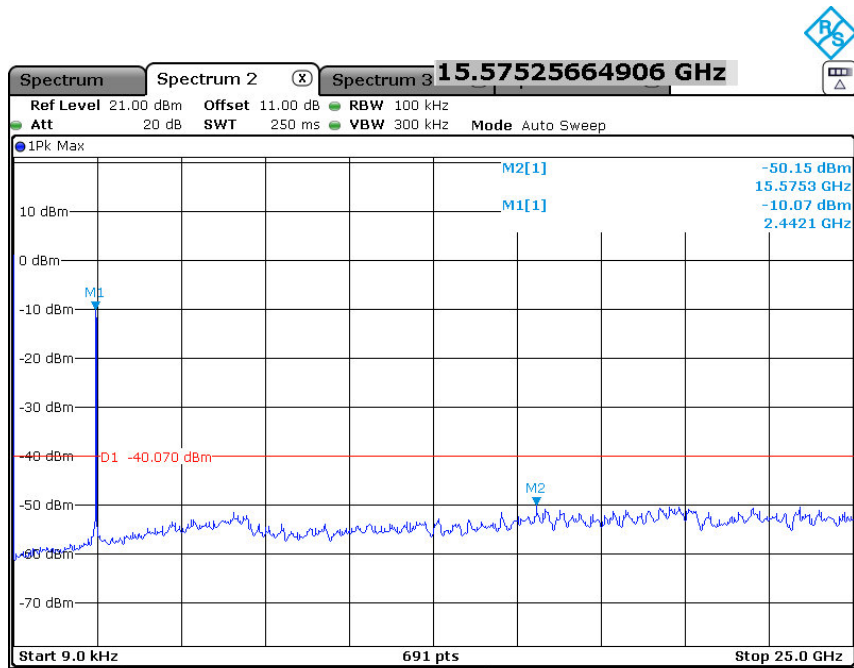
In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 6: 2.437GHz:

TEST REPORT



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.
Channel 9: 2.452 GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.