

# FCC Part 15C Measurement and Test Report

For

Shenzhen Inrico Electronics Co., LTD

3/F, Building NO.118, High Tech Industrial Park, 72 Guowei Road, Luohu

District, Shenzhen, China

**FCC ID: 2AIV6-T520**

<b>FCC Rule(s):</b>	<u>FCC Part 15.247</u>
<b>Product Description:</b>	<u>walkie talkie</u>
<b>Tested Model:</b>	<u>T520</u>
<b>Report No.:</b>	<u>STR18108145I-3</u>
<b>Sample Receipt Date:</b>	<u>2018-10-18</u>
<b>Tested Date:</b>	<u>2018-10-18 to 2019-01-02</u>
<b>Issued Date:</b>	<u>2019-01-02</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Shenzhen Inrico Electronics Co., LTD  
Address of applicant: 3/F, Building NO.118, High Tech Industrial Park, 72 Guowei Road, Luohu District, Shenzhen, China

Manufacturer: Shenzhen Inrico Electronics Co., LTD  
Address of manufacturer: 3/F, Building NO.118, High Tech Industrial Park, 72 Guowei Road, Luohu District, Shenzhen, China

General Description of EUT	
Product Name:	walkie talkie
Trade Name:	Inrico
Model No.:	T520
Adding Model(s):	/
Rated Voltage:	DC3.8V
Battery:	4000mAh
Adapter Model:	Model:HJ-0502000W2-US Input:AC100~240V 50/60Hz 0.3A Output:DC5V,2000mA
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n-HT20 2422-2452MHz for 802.11n-HT40
RF Output Power:	14.89dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/g/n-HT20 7 for 802.11n-HT40
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	2.04dBi
Lowest Internal Frequency of EUT:	32.768kHz

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

**558074 D01 15.247 Meas Guidance v05:** Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, And Hybrid System Devices Operating Under Section 15.247 Of The Fcc Rules

**ANSI C63.10-2013:** American National Standard for Testing Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### **FCC – Registration No.: 125990**

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

<b>Test Mode List</b>		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

<b>Test Conditions</b>	
Temperature:	22~25 °C
Relative humidity	50~56 %.
ATM Pressure:	1019 mbar

<b>EUT Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.2	Unshielded	Without Ferrite

<b>Accessories Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

<b>Auxiliary Equipment List and Details</b>			
Description	Manufacturer	Model	Serial Number
/	/	/	/

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

## 1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

## 2. SUMMARY OF TEST RESULTS

<b>FCC Rules</b>	<b>Description of Test Item</b>	<b>Result</b>
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	DTS Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable



### **3. RF Exposure**

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#### **3.1 Standard Applicable**

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

#### **3.2 Test Result**

This product complied with the requirement of the RF exposure, please see the SAR Report.

## **4. Antenna Requirement**

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### **4.1 Standard Applicable**

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **4.2 Evaluation Information**

This product has an Integral antenna, fulfill the requirement of this section.

## 5. Power Spectral Density

### 5.1 Standard Applicable

According to 15.247(a)(1)(iii), 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.

### 5.2 Test Procedure

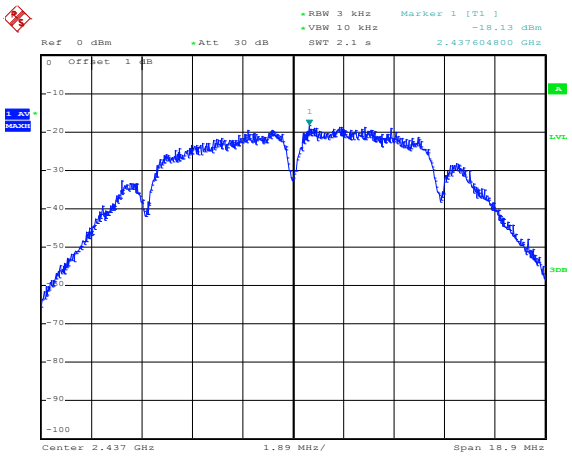
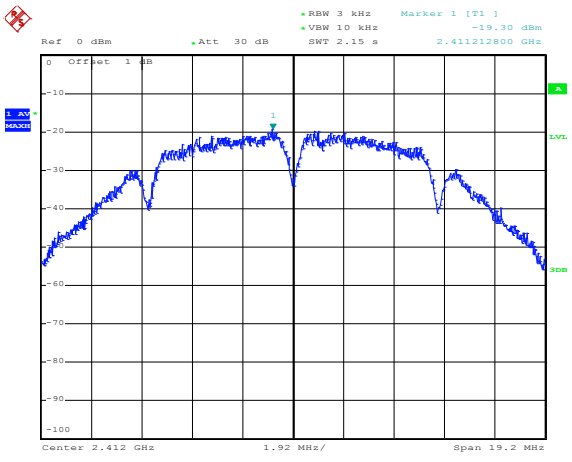
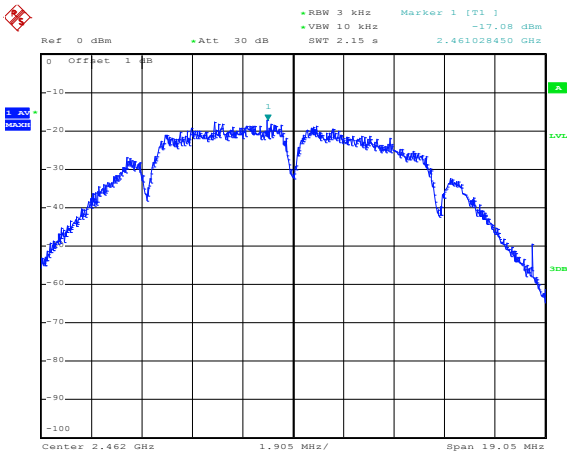
According to the KDB 558074 D01 v05 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

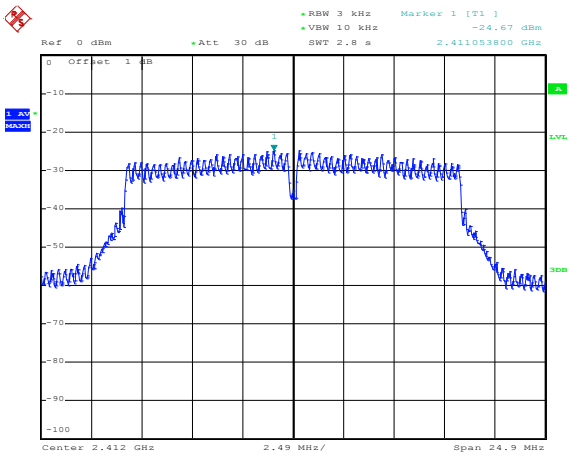
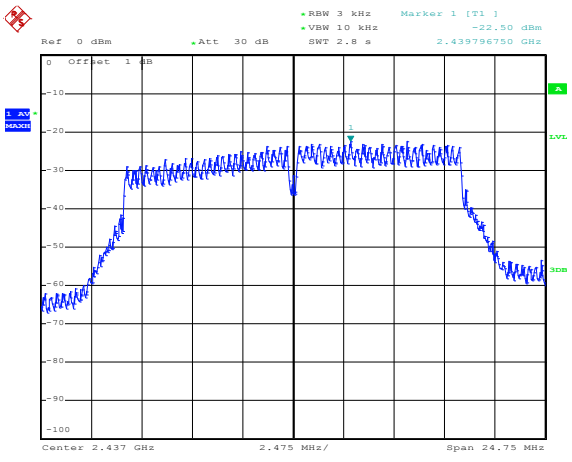
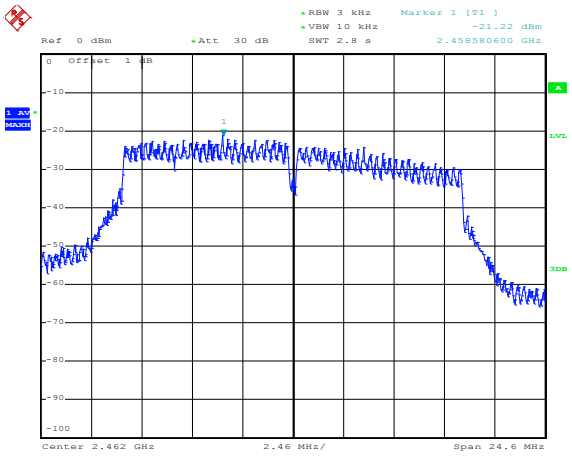
- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set VBW  $\geq 3 \times \text{RBW}$ .
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span/RBW}$ .
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

### 5.3 Summary of Test Results/Plots

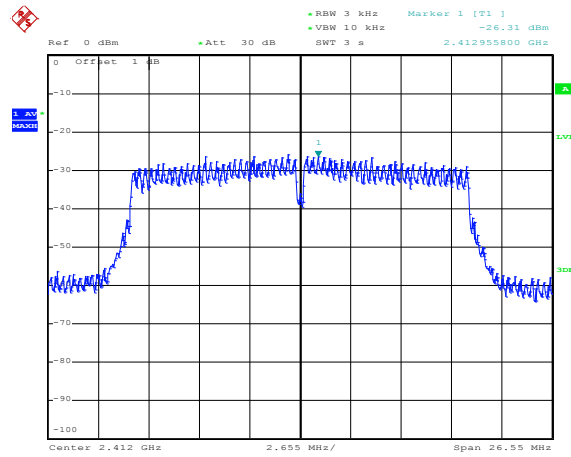
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b_11Mbps	2412	-18.13	8
	2437	-19.30	8
	2462	-17.08	8
802.11g_54Mbps	2412	-24.67	8
	2437	-22.50	8
	2462	-21.22	8
802.11n-HT20_MCS7	2412	-26.31	8
	2437	-22.63	8
	2462	-21.55	8
802.11n-HT40_MCS7	2422	-28.38	8
	2437	-26.08	8
	2452	-25.83	8

Please refer to the following test plots:

<p>802.11b-Low</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -18.13 dBm          VBW 10 kHz SWT 2.1 s 2.437604800 GHz</p> <p>Center 2.437 GHz 1.89 MHz/ Span 18.9 MHz</p> <p>Date: 19.NOV.2018 09:26:58</p>
<p>802.11b-Middle</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -19.30 dBm          VBW 10 kHz SWT 2.15 s 2.411212800 GHz</p> <p>Center 2.412 GHz 1.92 MHz/ Span 19.2 MHz</p> <p>Date: 19.NOV.2018 09:26:09</p>
<p>802.11b-High</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -17.08 dBm          VBW 10 kHz SWT 2.15 s 2.461028450 GHz</p> <p>Center 2.462 GHz 1.905 MHz/ Span 19.05 MHz</p> <p>Date: 19.NOV.2018 09:22:03</p>

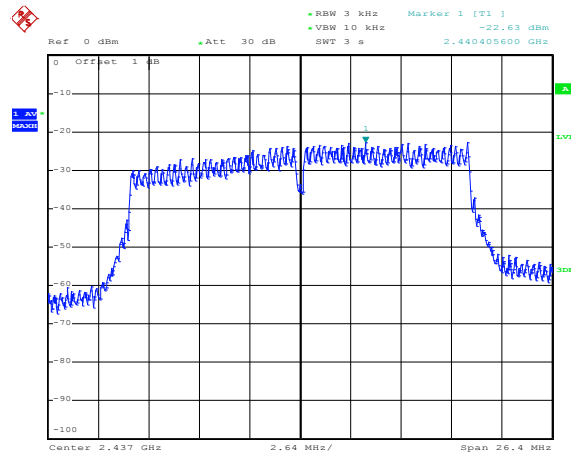
<p>802.11g-Low</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -24.67 dBm          VBW 10 kHz SWT 2.8 s 2.411053800 GHz</p> <p>Center 2.412 GHz 2.49 MHz/ Span 24.9 MHz</p> <p>Date: 19.NOV.2018 09:29:46</p>
<p>802.11g-Middle</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -22.50 dBm          VBW 10 kHz SWT 2.8 s 2.439796750 GHz</p> <p>Center 2.437 GHz 2.475 MHz/ Span 24.75 MHz</p> <p>Date: 19.NOV.2018 09:33:57</p>
<p>802.11g-High</p>	 <p>Ref 0 dBm Att 30 dB RBW 3 kHz Marker 1 [T1] -21.22 dBm          VBW 10 kHz SWT 2.8 s 2.458590600 GHz</p> <p>Center 2.462 GHz 2.46 MHz/ Span 24.6 MHz</p> <p>Date: 19.NOV.2018 09:34:36</p>

802.11n-HT20-Low



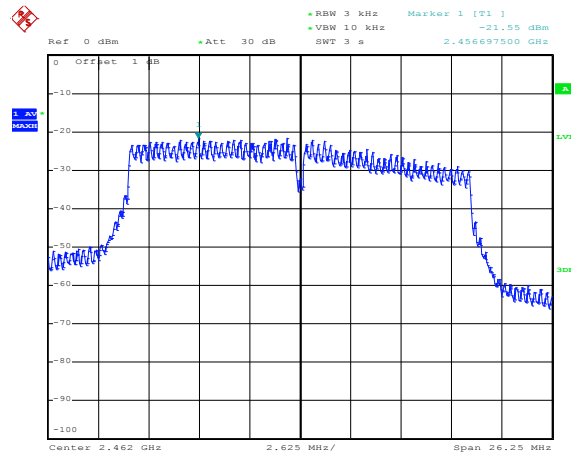
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802.11n-HT20-Middle

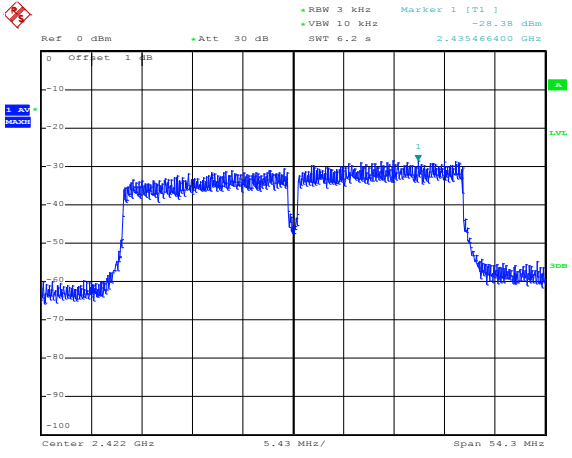
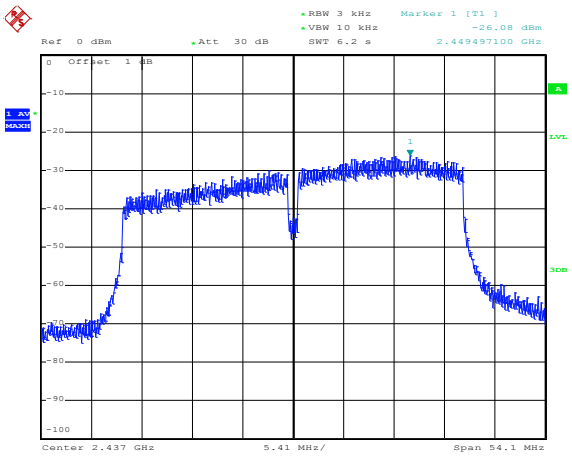
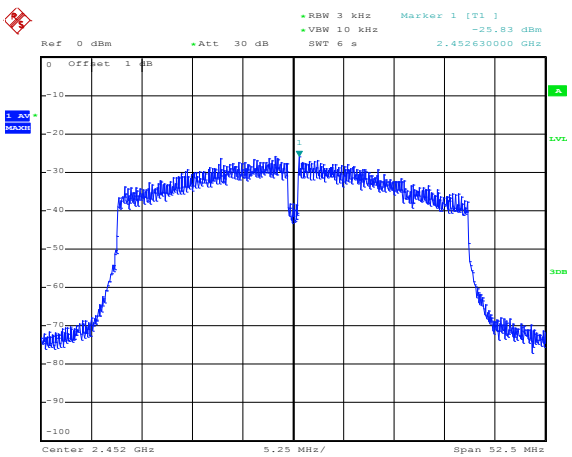


Date: 19.NOV.2018 09:36:09

802.11n-HT20-High



Date: 19.NOV.2018 09:38:12

<p>802.11n-HT40-Low</p>	 <p>Ref 0 dBm    Att 30 dB    RBW 3 kHz    Marker 1 [T1]    -28.38 dBm          VSW 10 kHz    SWF 6.2 s    2.425466400 GHz</p> <p>Center 2.422 GHz    5.43 MHz/    Span 54.3 MHz</p> <p>Date: 19.NOV.2018 09:38:53</p>
<p>802.11n-HT40-Middle</p>	 <p>Ref 0 dBm    Att 30 dB    RBW 3 kHz    Marker 1 [T1]    -26.08 dBm          VSW 10 kHz    SWF 6.2 s    2.449497100 GHz</p> <p>Center 2.437 GHz    5.41 MHz/    Span 54.1 MHz</p> <p>Date: 19.NOV.2018 09:40:00</p>
<p>802.11n-HT40-High</p>	 <p>Ref 0 dBm    Att 30 dB    RBW 3 kHz    Marker 1 [T1]    -25.83 dBm          VSW 10 kHz    SWF 6 s    2.452630000 GHz</p> <p>Center 2.452 GHz    5.25 MHz/    Span 52.5 MHz</p> <p>Date: 19.NOV.2018 09:40:44</p>

## 6. DTS Bandwidth

### 6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 6.2 Test Procedure

According to the KDB 558074 D01 v05 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

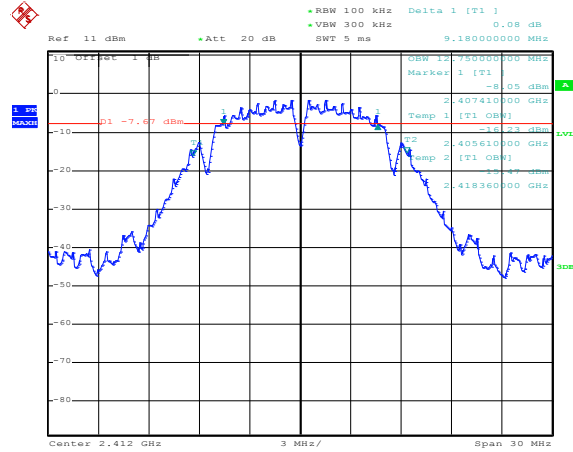
### 6.3 Summary of Test Results/Plots

Test Mode	Test Channel MHz	6 dB Bandwidth MHz	Limit kHz
802.11b_11Mbps	2412	9.18	$\geq 500$
	2437	9.18	$\geq 500$
	2462	8.70	$\geq 500$
802.11g_54Mbps	2412	16.50	$\geq 500$
	2437	15.30	$\geq 500$
	2462	14.64	$\geq 500$
802.11n-HT20_MCS7	2412	17.76	$\geq 500$
	2437	16.92	$\geq 500$
	2462	14.67	$\geq 500$
802.11n-HT40_MCS7	2422	36.00	$\geq 500$
	2437	26.10	$\geq 500$
	2452	23.82	$\geq 500$

Please refer to the following test plots:

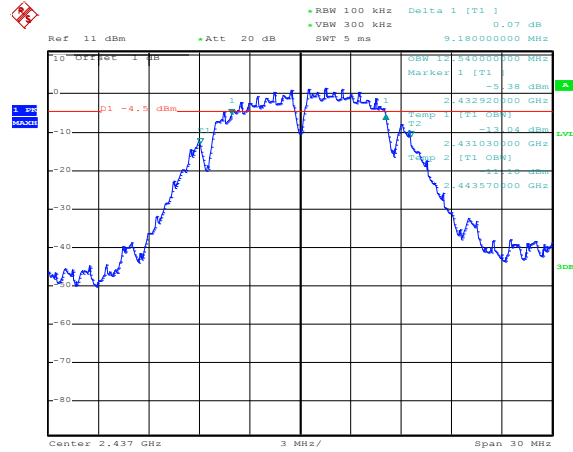


802.11b-Low



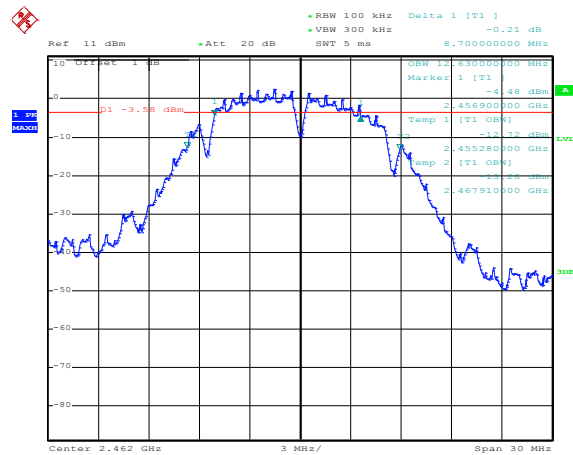
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802.11b-Middle



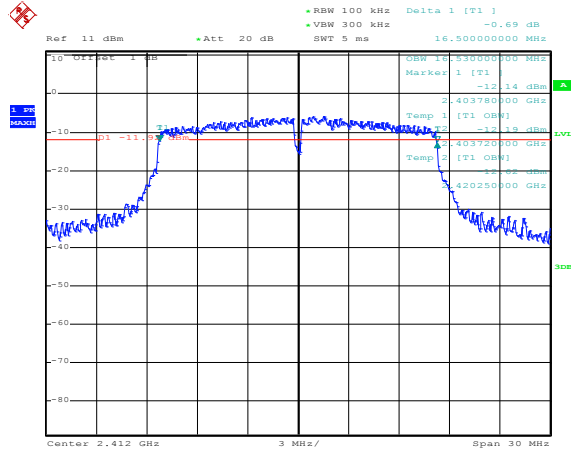
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802.11b-High



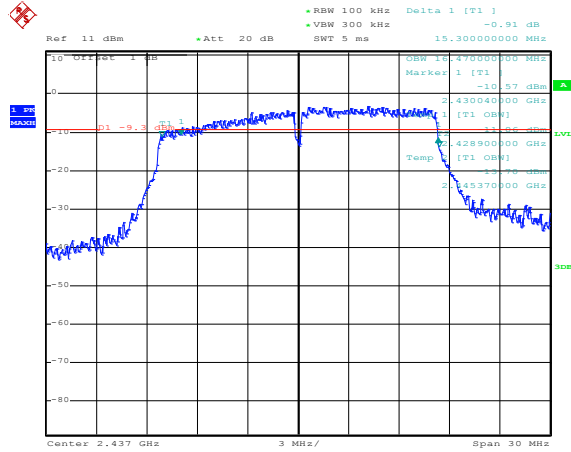
Date: 16.NOV.2018 17:01:00

802.11g-Low



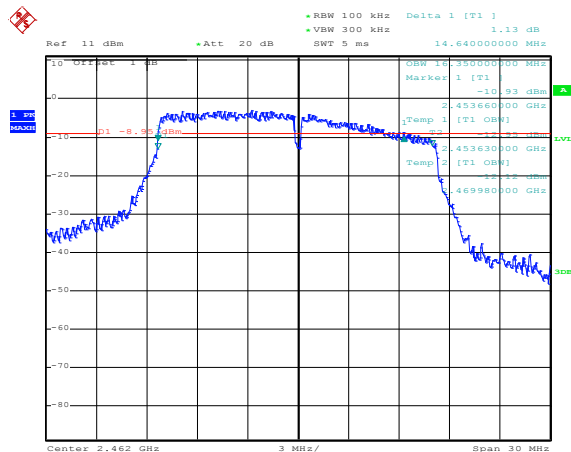
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802.11g-Middle

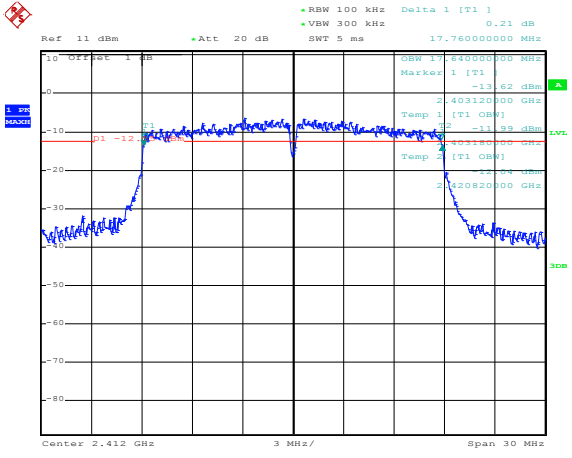
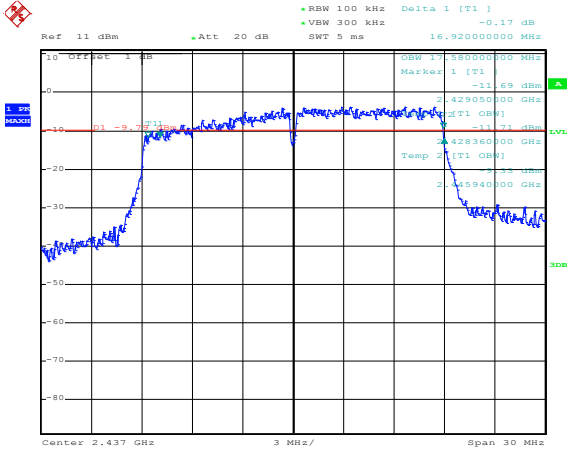
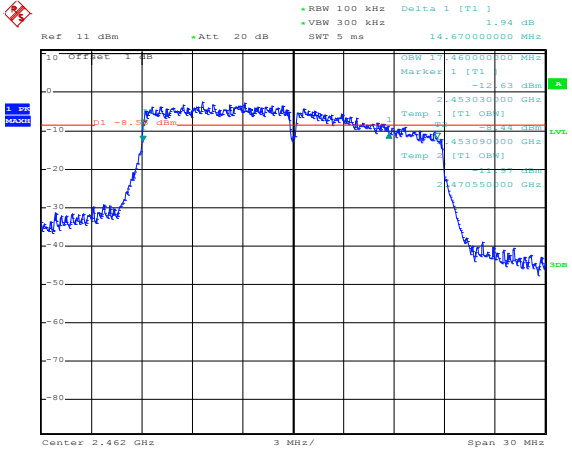


Date: 16.NOV.2018 17:09:32

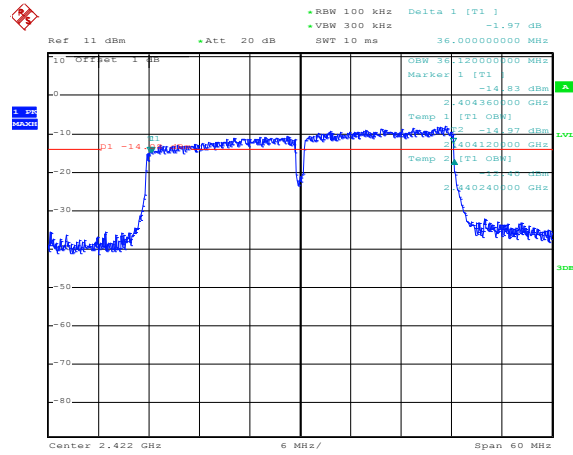
802.11g-High



Date: 16.NOV.2018 17:14:31

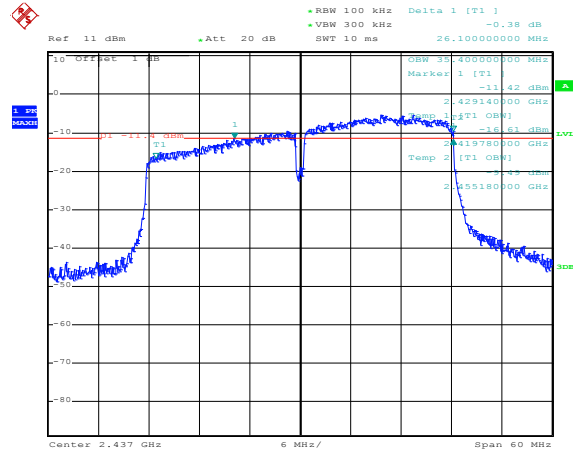
<p>802.11n-HT20-Low</p>	 <p>             RBW 100 kHz Delta 1 [T1] 0.21 dB              VBW 300 kHz              Ref 11 dBm Att 20 dB SWF 5 ms 17.76000000 MHz              Offset 1 dB              Marker 1 [T1] -12.62 dBm              Temp 1 [T1] [OBW] -11.98 dBm              Temp 2 [T1] [OBW] -12.84 dBm              Temp 3 [T1] [OBW] -12.08 dBm              Center 2.412 GHz 3 MHz/ Span 30 MHz         </p> <p>Date: 16.NOV.2018 17:25:06</p>
<p>802.11n-HT20-Middle</p>	 <p>             RBW 100 kHz Delta 1 [T1] -0.17 dB              VBW 300 kHz              Ref 11 dBm Att 20 dB SWF 5 ms 16.92000000 MHz              Offset 1 dB              Marker 1 [T1] -11.69 dBm              Temp 1 [T1] [OBW] -11.21 dBm              Temp 2 [T1] [OBW] -11.33 dBm              Temp 3 [T1] [OBW] -11.59 dBm              Center 2.437 GHz 3 MHz/ Span 30 MHz         </p> <p>Date: 16.NOV.2018 17:29:06</p>
<p>802.11n-HT20-High</p>	 <p>             RBW 100 kHz Delta 1 [T1] 1.94 dB              VBW 300 kHz              Ref 11 dBm Att 20 dB SWF 5 ms 14.67000000 MHz              Offset 1 dB              Marker 1 [T1] -12.63 dBm              Temp 1 [T1] [OBW] -11.94 dBm              Temp 2 [T1] [OBW] -12.82 dBm              Temp 3 [T1] [OBW] -12.05 dBm              Center 2.462 GHz 3 MHz/ Span 30 MHz         </p> <p>Date: 16.NOV.2018 17:30:22</p>

802.11n-HT40-Low



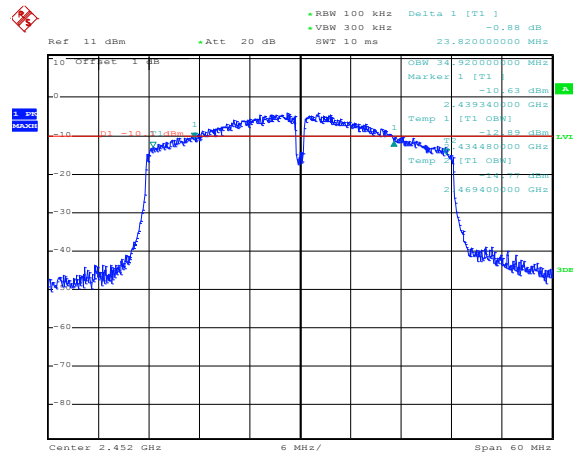
Date: 16.NOV.2018 17:32:55

802.11n-HT40-Middle



Date: 16.NOV.2018 17:42:05

802.11n-HT40-High



Date: 16.NOV.2018 17:43:11

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## 7. RF Output Power

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### 7.1 Standard Applicable

According to 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.

### 7.2 Test Procedure

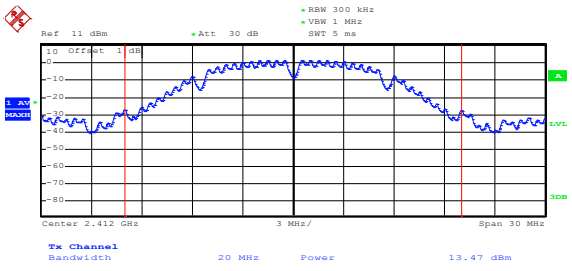
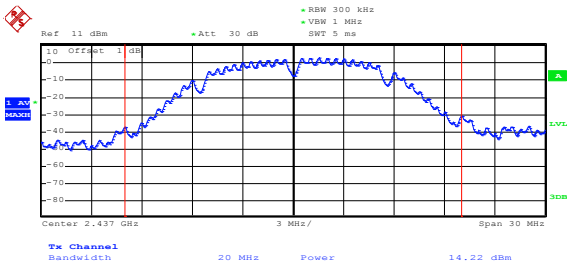
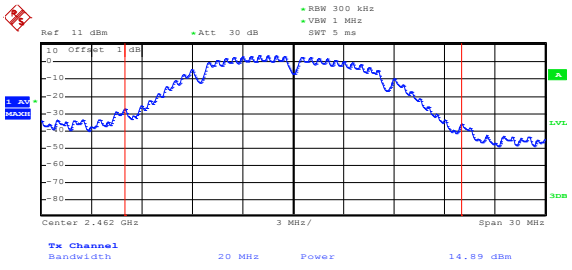
According to the KDB-558074 D01 v05 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

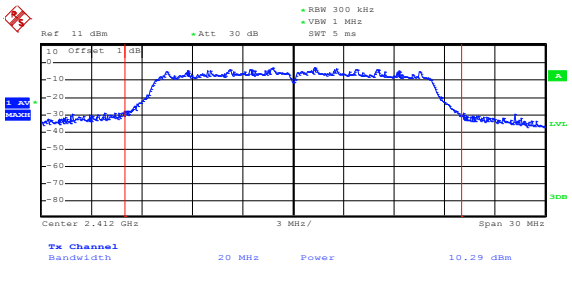
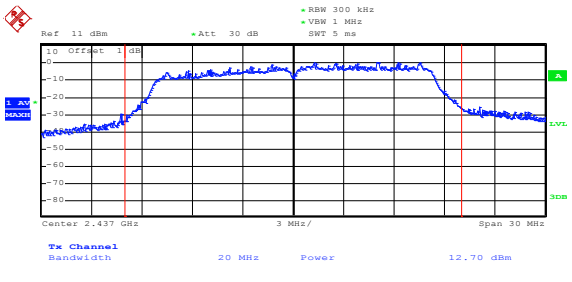
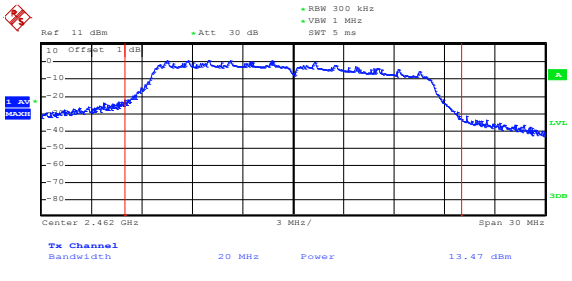
- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW  $\geq 3 \times$  RBW.
- d) Number of points in sweep  $\geq 2 \times$  span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98$  %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run” .
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

### 7.3 Summary of Test Results/Plots

Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	13.47	22.23	1000
	2437	14.22	26.42	1000
	2462	14.89	30.83	1000
802.11g_54Mbps	2412	10.29	10.69	1000
	2437	12.70	18.62	1000
	2462	13.47	22.23	1000
802.11n HT20_MCS7	2412	10.22	10.52	1000
	2437	13.11	20.46	1000
	2462	13.52	22.49	1000
802.11n HT40_MCS7	2422	9.55	9.02	1000
	2437	9.96	9.91	1000
	2452	10.87	12.22	1000

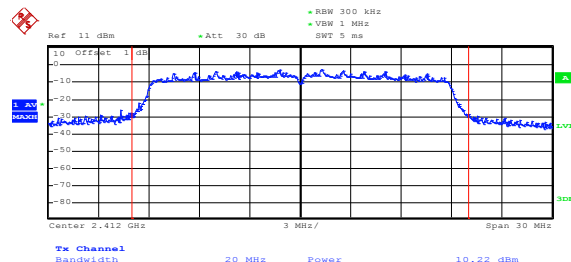
Please refer to the following test plots:

<p>802.11b-Low 11Mbps</p>	 <p>Date: 19.NOV.2018 09:08:50</p>
<p>802.11b-Middle 11Mbps</p>	 <p>Date: 19.NOV.2018 09:09:25</p>
<p>802.11b-High 11Mbps</p>	 <p>Date: 19.NOV.2018 09:10:10</p>

<p>802.11g-Low 54Mbps</p>	 <p>Date: 19.NOV.2018 09:06:23</p>
<p>802.11g-Middle 54Mbps</p>	 <p>Date: 19.NOV.2018 09:06:50</p>
<p>802.11g-High 54Mbps</p>	 <p>Date: 19.NOV.2018 09:07:27</p>

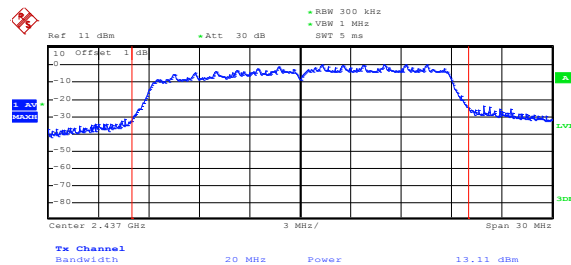


802.11n-HT20-Low  
MCS7



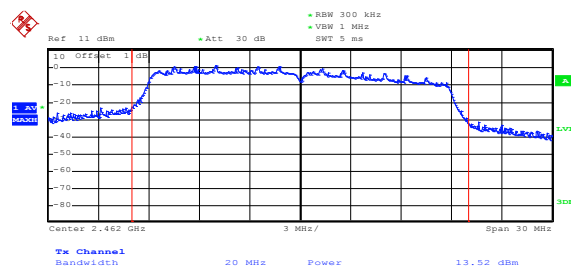
Date: 19.NOV.2018 09:04:07

802.11n-HT20-Middle  
MCS7

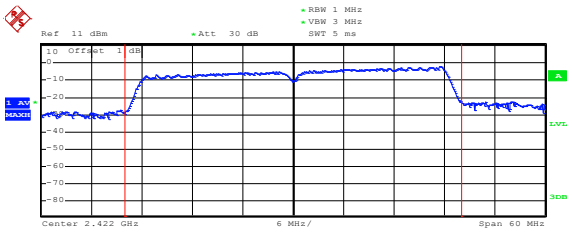
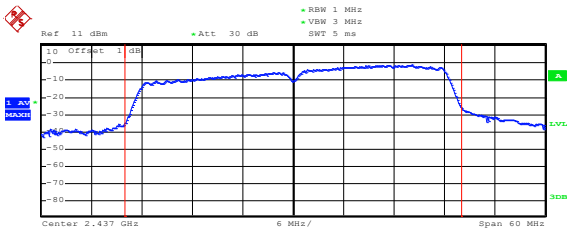
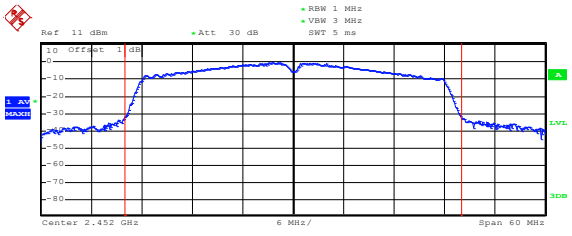


Date: 19.NOV.2018 09:05:14

802.11n-HT20-High  
MCS7



Date: 19.NOV.2018 09:05:44

<p>802.11n-HT40-Low MCS7</p>	 <p>Date: 19.NOV.2018 09:02:22</p>
<p>802.11n-HT40-Middle MCS7</p>	 <p>Date: 19.NOV.2018 09:02:54</p>
<p>802.11n-HT40-High MCS7</p>	 <p>Date: 19.NOV.2018 09:03:20</p>

## 8. Field Strength of Spurious Emissions

### 8.1 Standard Applicable

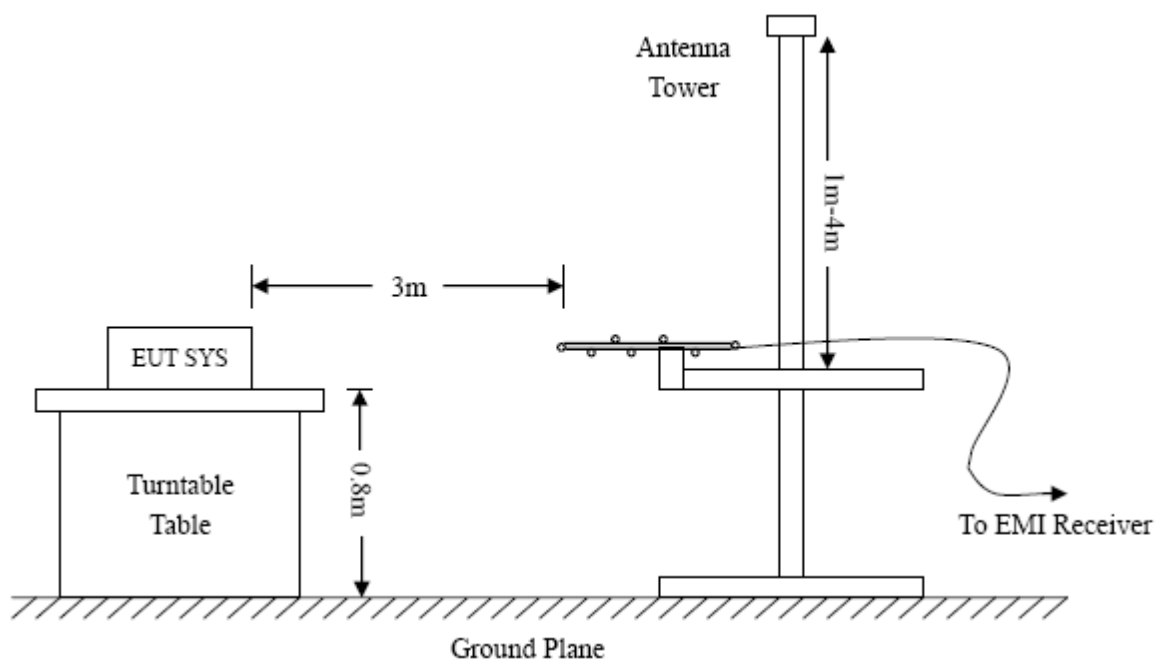
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

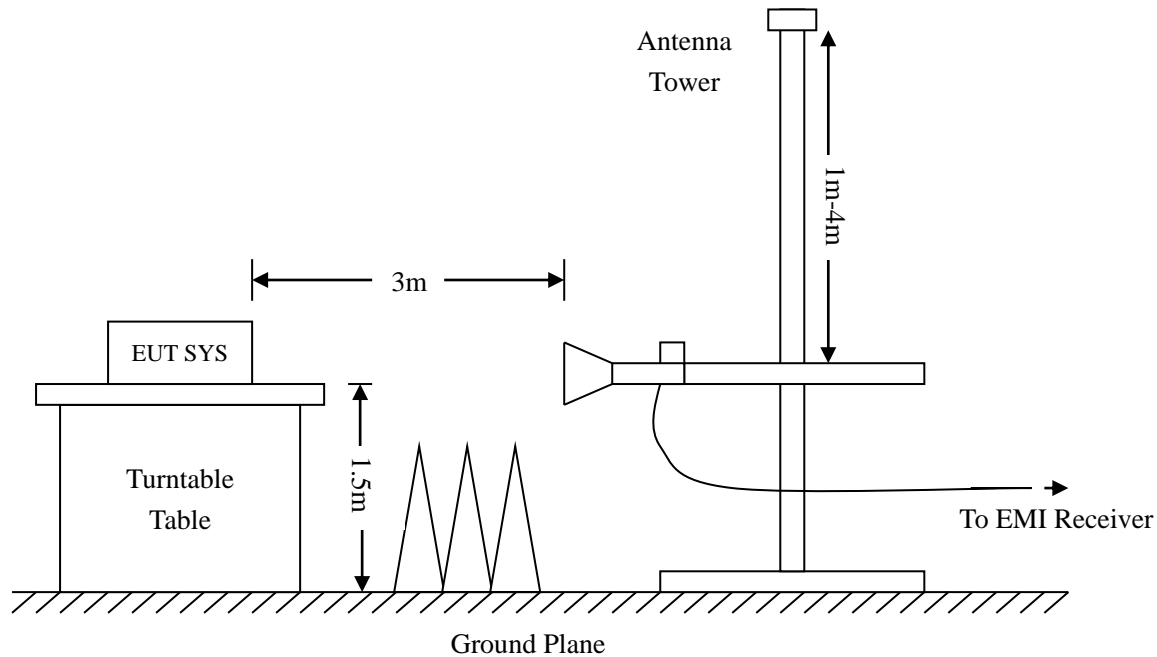
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz  
 RBW=10KHz,  
 VBW =30KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak

Frequency :30MHz-1GHz  
 RBW=120KHz,  
 VBW=360KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, QP

Frequency :Above 1GHz  
 RBW=1MHz,  
 VBW=3MHz(Peak), 10Hz(AV)  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, AV

### 8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

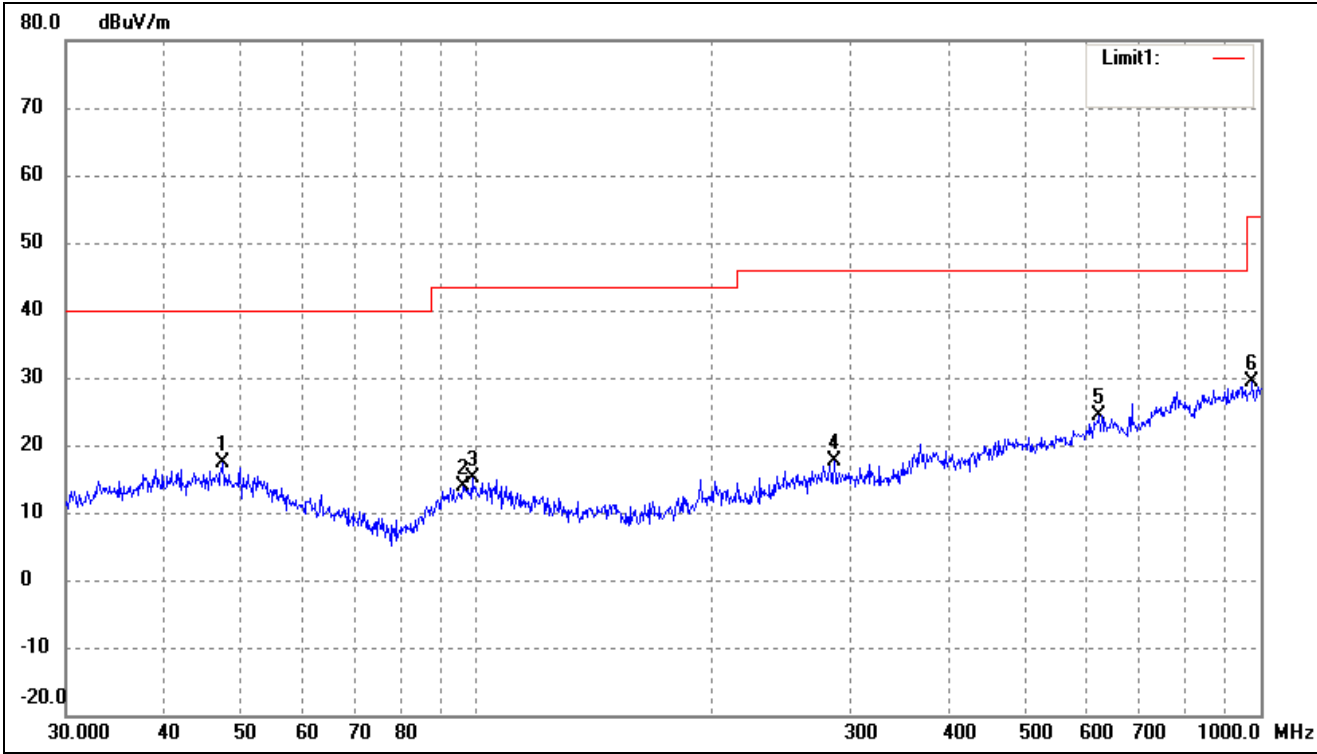
### 8.4 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

*All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.*

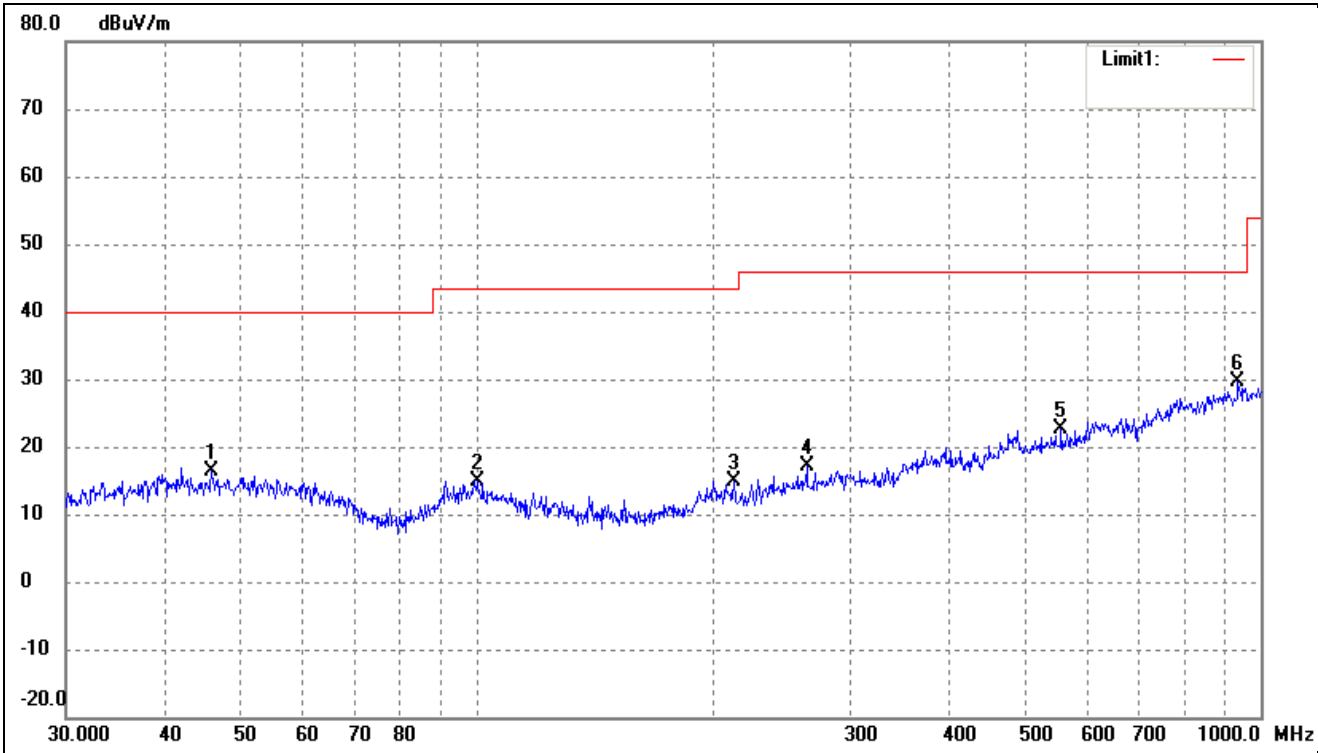
➤ Spurious Emissions Below 1GHz

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



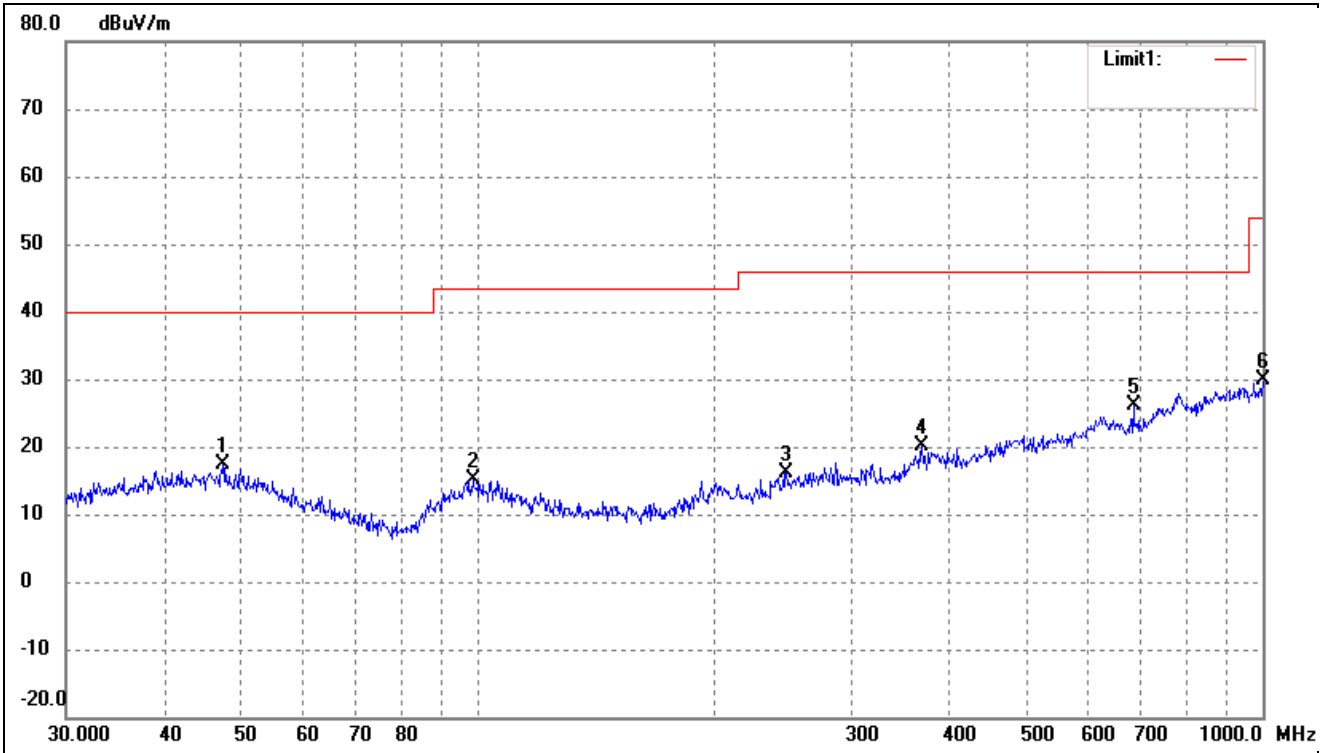
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	47.4918	27.91	-10.65	17.26	40.00	-22.74	236	100	peak
2	96.0986	26.21	-12.27	13.94	43.50	-29.56	100	100	peak
3	98.8326	26.71	-11.66	15.05	43.50	-28.45	274	100	peak
4	285.9778	27.15	-9.58	17.57	46.00	-28.43	116	100	peak
5	622.8900	27.33	-2.85	24.48	46.00	-21.52	76	100	peak
6	975.7529	27.43	1.91	29.34	54.00	-24.66	194	100	peak

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



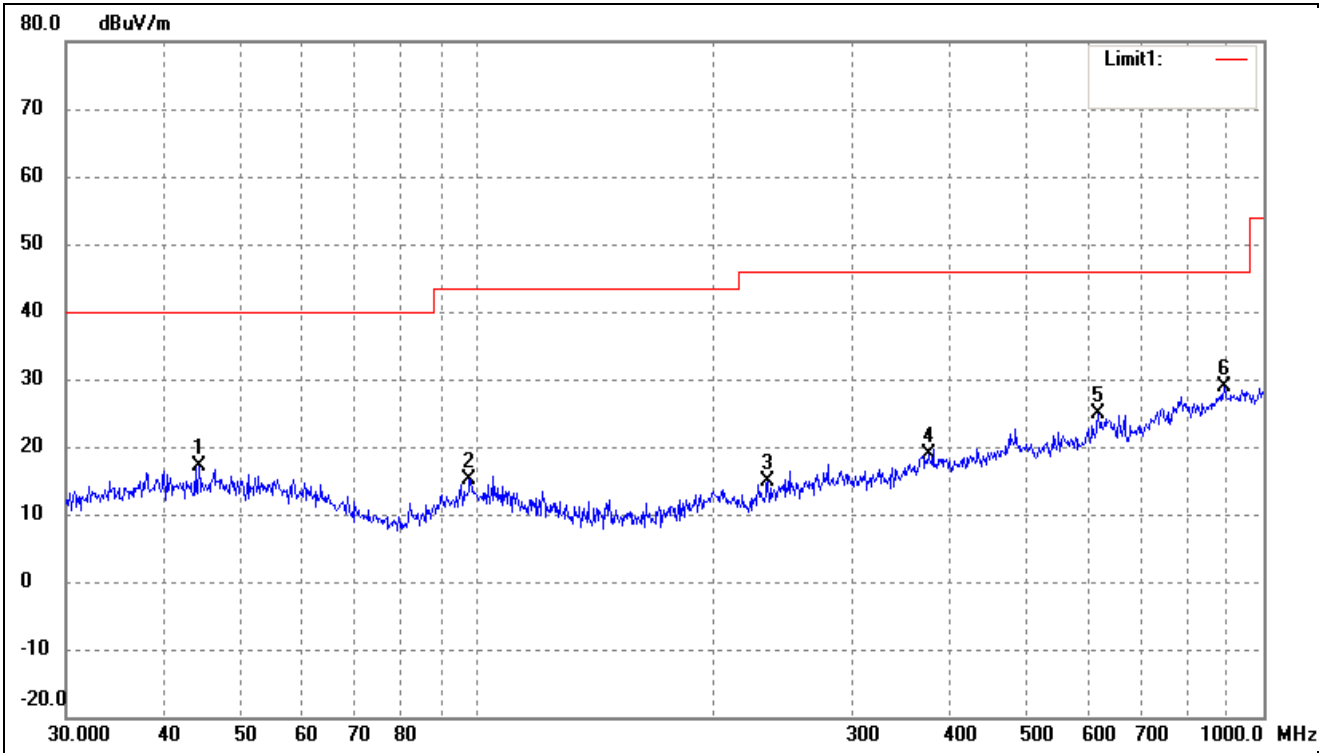
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	46.0162	26.81	-10.44	16.37	40.00	-23.63	229	100	peak
2	100.2286	26.36	-11.43	14.93	43.50	-28.57	96	100	peak
3	213.0150	27.01	-12.17	14.84	43.50	-28.66	162	100	peak
4	263.8190	27.12	-9.96	17.16	46.00	-28.84	95	100	peak
5	556.7744	28.36	-5.76	22.60	46.00	-23.40	282	100	peak
6	935.5462	27.34	2.18	29.52	46.00	-16.48	209	100	peak

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	47.4918	27.91	-10.65	17.26	40.00	-22.74	79	100	peak
2	98.8326	26.71	-11.66	15.05	43.50	-28.45	94	100	peak
3	247.6819	26.80	-10.60	16.20	46.00	-29.80	76	100	peak
4	368.1116	27.64	-7.53	20.11	46.00	-25.89	225	100	peak
5	684.7454	29.69	-3.48	26.21	46.00	-19.79	325	100	peak
6	1000.0000	27.11	2.65	29.76	54.00	-24.24	192	100	peak

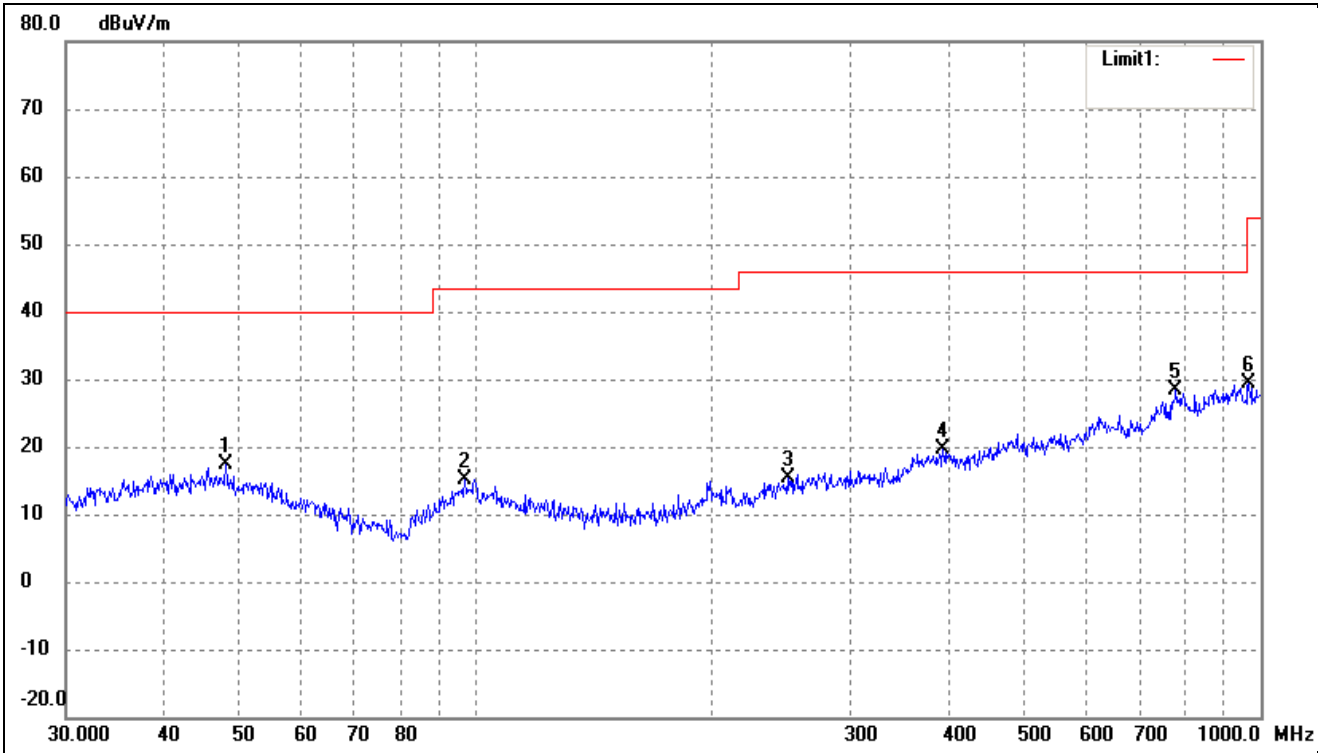
802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	44.2752	27.54	-10.45	17.09	40.00	-22.91	328	100	peak
2	97.7983	27.10	-11.88	15.22	43.50	-28.28	237	100	peak
3	234.1684	26.24	-11.40	14.84	46.00	-31.16	98	100	peak
4	374.6226	26.19	-7.24	18.95	46.00	-27.05	338	100	peak
5	616.3718	27.84	-3.07	24.77	46.00	-21.23	191	100	peak
6	890.7278	27.51	1.43	28.94	46.00	-17.06	216	100	peak

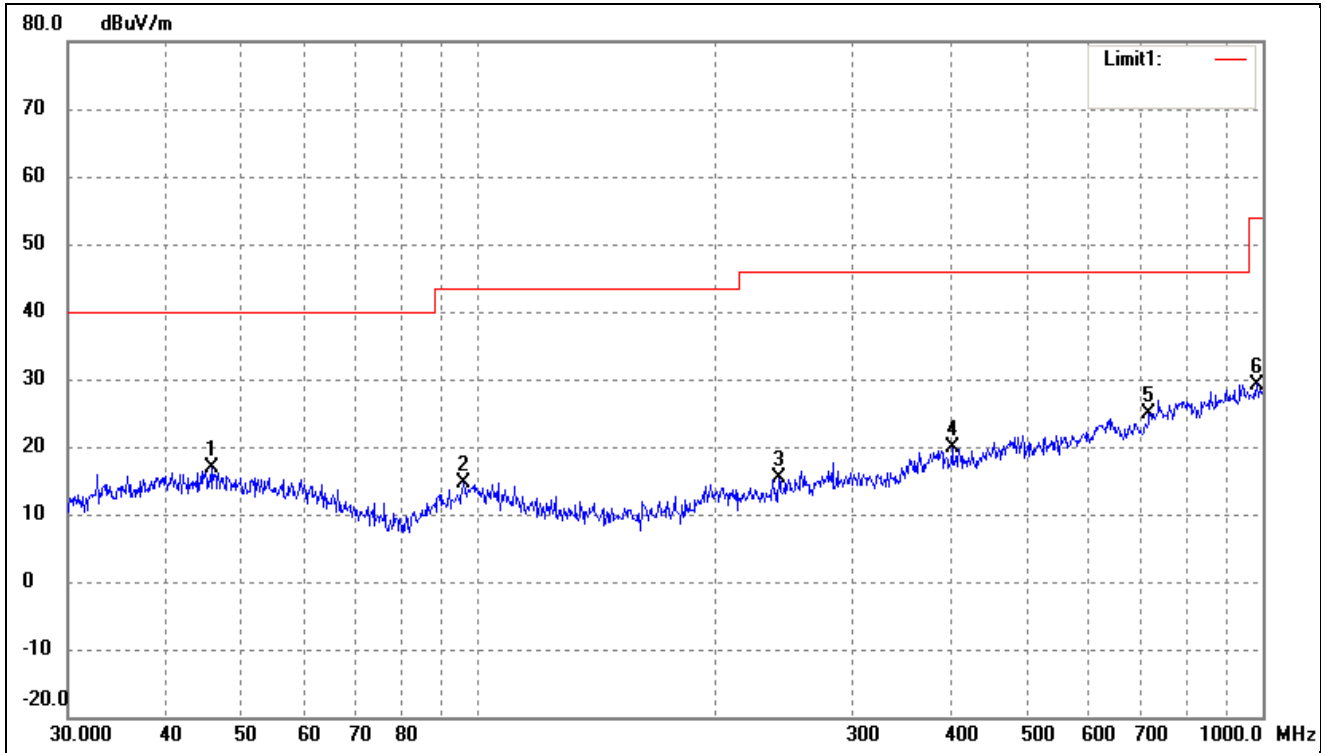


802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	47.9940	28.02	-10.66	17.36	40.00	-22.64	138	100	peak
2	96.7749	27.15	-12.12	15.03	43.50	-28.47	153	100	peak
3	249.4250	25.84	-10.52	15.32	46.00	-30.68	56	100	peak
4	393.4724	27.05	-7.41	19.64	46.00	-26.36	104	100	peak
5	779.6068	27.88	0.54	28.42	46.00	-17.58	55	100	peak
6	965.5421	27.59	1.67	29.26	54.00	-24.74	108	100	peak

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	45.8553	27.37	-10.44	16.93	40.00	-23.07	89	100	peak
2	95.7622	27.04	-12.34	14.70	43.50	-28.80	117	100	peak
3	241.6763	26.15	-10.88	15.27	46.00	-30.73	58	100	peak
4	401.8385	27.62	-7.63	19.99	46.00	-26.01	141	100	peak
5	716.6820	27.33	-2.52	24.81	46.00	-21.19	112	100	peak
6	982.6200	27.16	2.09	29.25	54.00	-24.75	147	100	peak

- Spurious Emissions Below 1GHz
- Test Mode: 802.11b\_11Mbps (worst case)

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	61.03	-3.86	57.17	74	-16.83	H	PK
4824.000	43.36	-3.86	39.50	54	-14.50	H	AV
7236.000	53.21	1.10	54.31	74	-19.69	H	PK
7236.000	39.85	1.10	40.95	54	-13.05	H	AV
4824.000	59.63	-3.86	55.77	74	-18.23	V	PK
4824.000	44.00	-3.86	40.14	54	-13.86	V	AV
7236.000	53.49	1.10	54.59	74	-19.41	V	PK
7236.000	41.10	1.10	42.20	54	-11.80	V	AV
Middle Channel-2437MHz							
4874.000	62.40	-3.74	58.66	74	-15.34	H	PK
4874.000	42.54	-3.74	38.80	54	-15.20	H	AV
7311.000	55.74	1.47	57.21	74	-16.79	H	PK
7311.000	41.23	1.47	42.70	54	-11.30	H	AV
4874.000	60.05	-3.74	56.31	74	-17.69	V	PK
4874.000	40.76	-3.74	37.02	54	-16.98	V	AV
7311.000	57.06	1.47	58.53	74	-15.47	V	PK
7311.000	41.09	1.47	42.56	54	-11.44	V	AV
High Channel-2462MHz							
4924.000	61.43	-3.63	57.80	74	-16.20	H	PK
4924.000	40.62	-3.63	36.99	54	-17.01	H	AV
7386.000	56.34	1.62	57.96	74	-16.04	H	PK
7386.000	40.67	1.62	42.29	54	-11.71	H	AV
4924.000	59.20	-3.63	55.57	74	-18.43	V	PK
4924.000	40.56	-3.63	36.93	54	-17.07	V	AV
7386.000	53.15	1.62	54.77	74	-19.23	V	PK
7386.000	41.51	1.62	43.13	54	-10.87	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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## 9. Out of Band Emissions

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### 9.1 Standard Applicable

According to §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, 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### 9.2 Test Procedure

According to the KDB 558074D01 v05 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- 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.

According to the KDB 558074 D01 v05 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

#### A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

**B. Antenna-port conducted measurements**

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9/
- b) VBW  $\geq$   $[3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

**Table 9—RBW as a function of frequency**

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

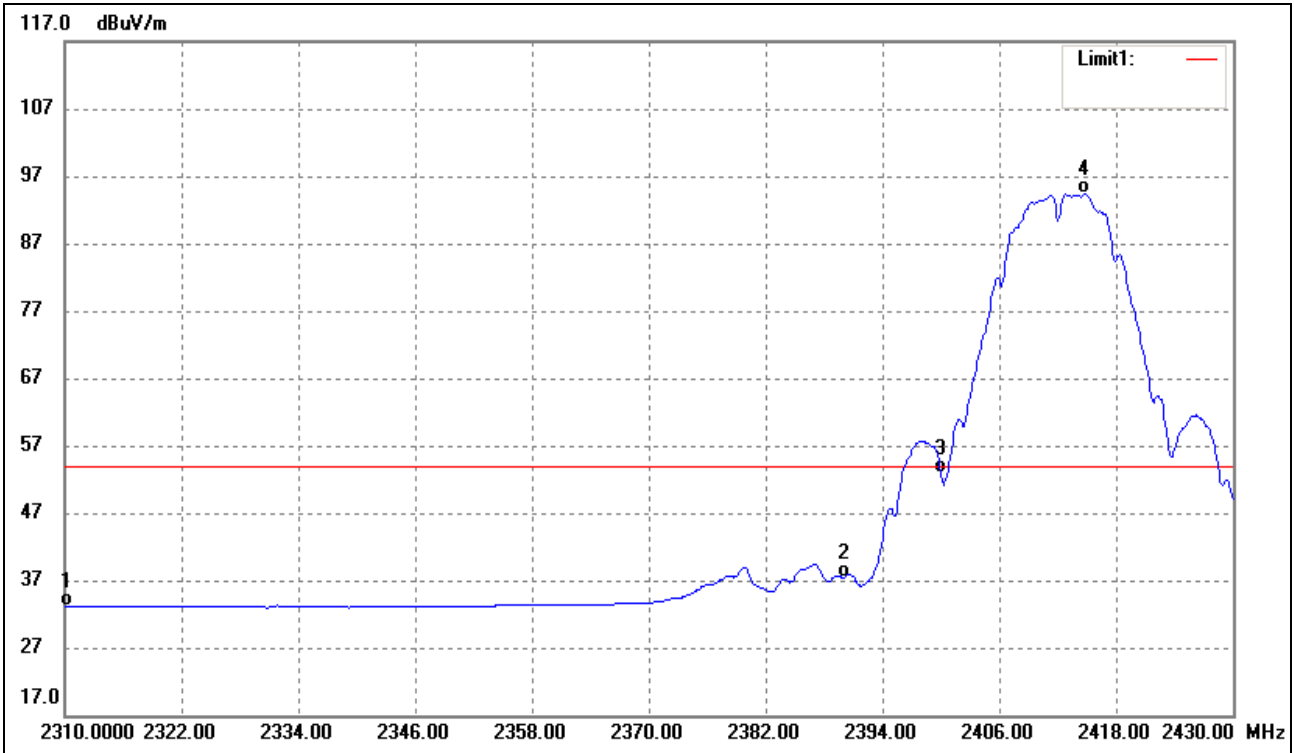
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

**9.3 Summary of Test Results/Plots**

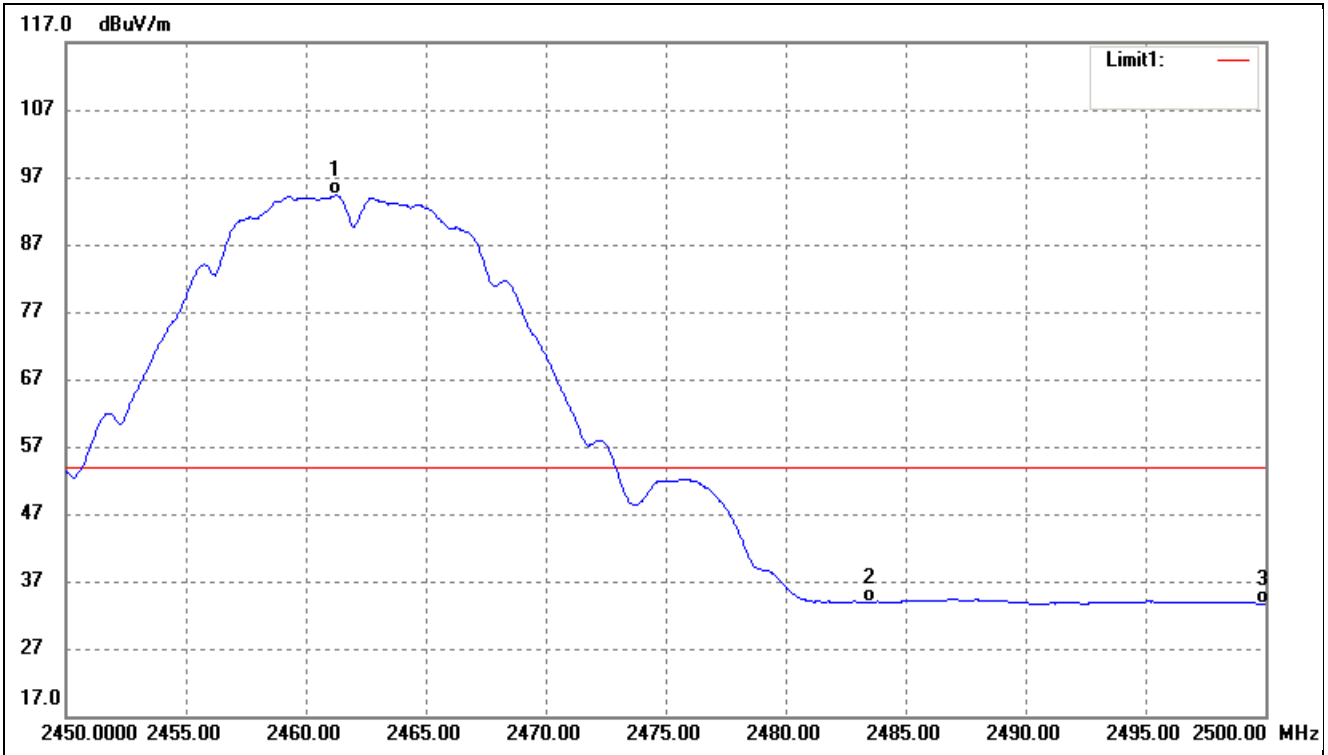
➤ Radiated test

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



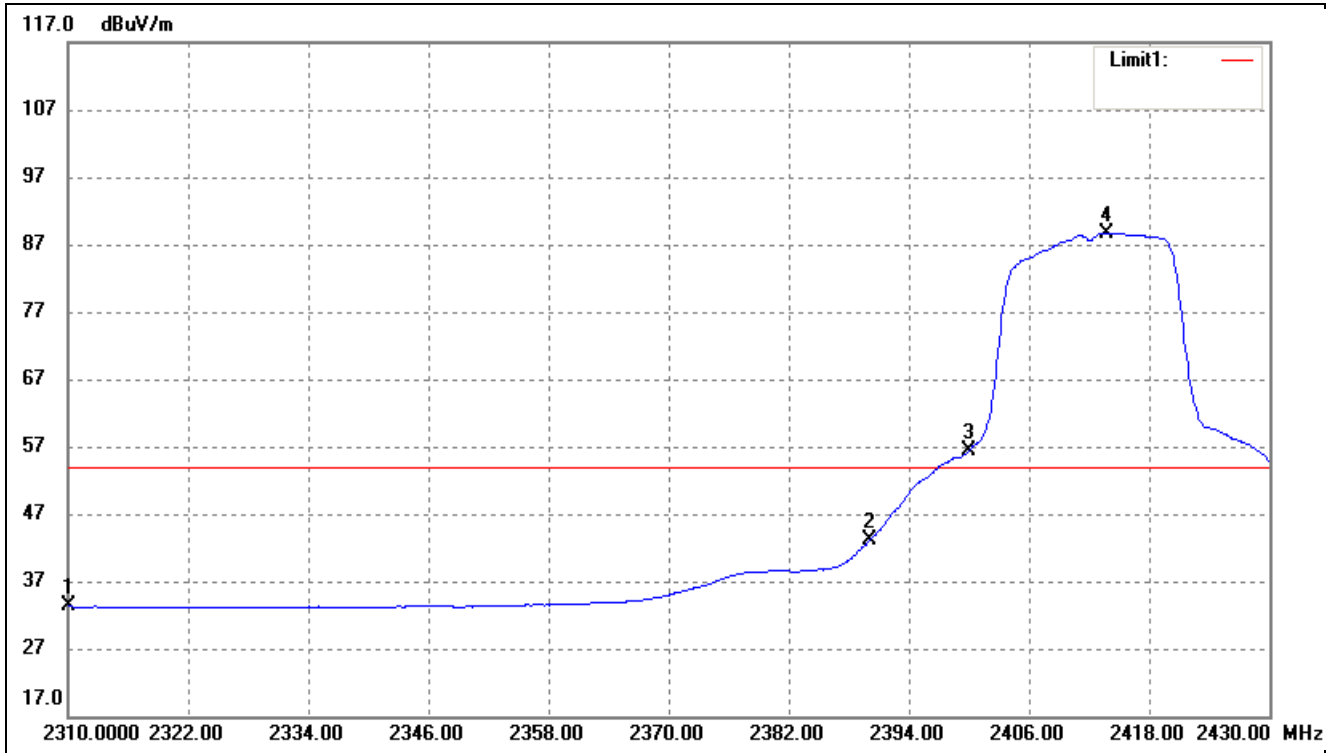
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.88	-7.78	33.10	54.00	-20.90	Average Detector
	2310.000	54.11	-7.78	46.33	74.00	-27.67	Peak Detector
2	2390.000	44.74	-7.32	37.42	54.00	-16.58	Average Detector
	2390.000	54.25	-7.32	46.93	74.00	-27.07	Peak Detector
3	2400.000	60.22	-7.26	52.96	Delta=41.38dBc		Average Detector
4	2414.760	101.52	-7.18	94.34		Average Detector	

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.250	101.20	-6.90	94.30	/	/	Average Detector
	2460.550	106.30	-6.90	99.40	/	/	Peak Detector
2	2483.500	40.56	-6.77	33.79	54.00	-20.21	Average Detector
	2483.500	53.31	-6.77	46.54	74.00	-27.46	Peak Detector
3	2500.000	40.33	-6.67	33.66	54.00	-20.34	Average Detector
	2500.000	52.72	-6.67	46.05	74.00	-27.95	Peak Detector

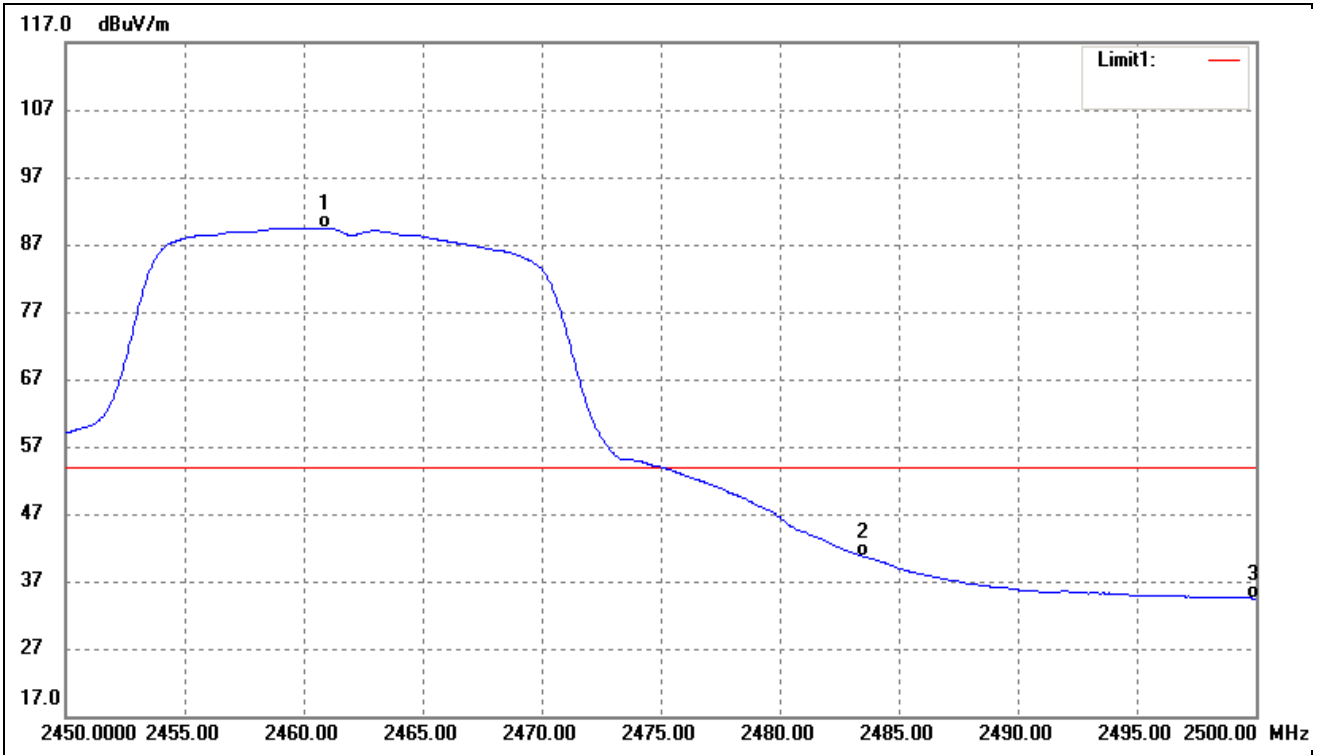
802.11g_54Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.05	-7.78	33.27	54.00	-20.73	Average Detector
	2310.000	54.71	-7.78	46.93	74.00	-27.07	Peak Detector
2	2390.000	50.39	-7.32	43.07	54.00	-10.93	Average Detector
	2390.000	69.48	-7.32	62.16	74.00	-11.84	Peak Detector
3	2400.000	63.65	-7.26	56.39	Delta=32.33dBc		Average Detector
4	2413.800	95.90	-7.18	88.72			Average Detector

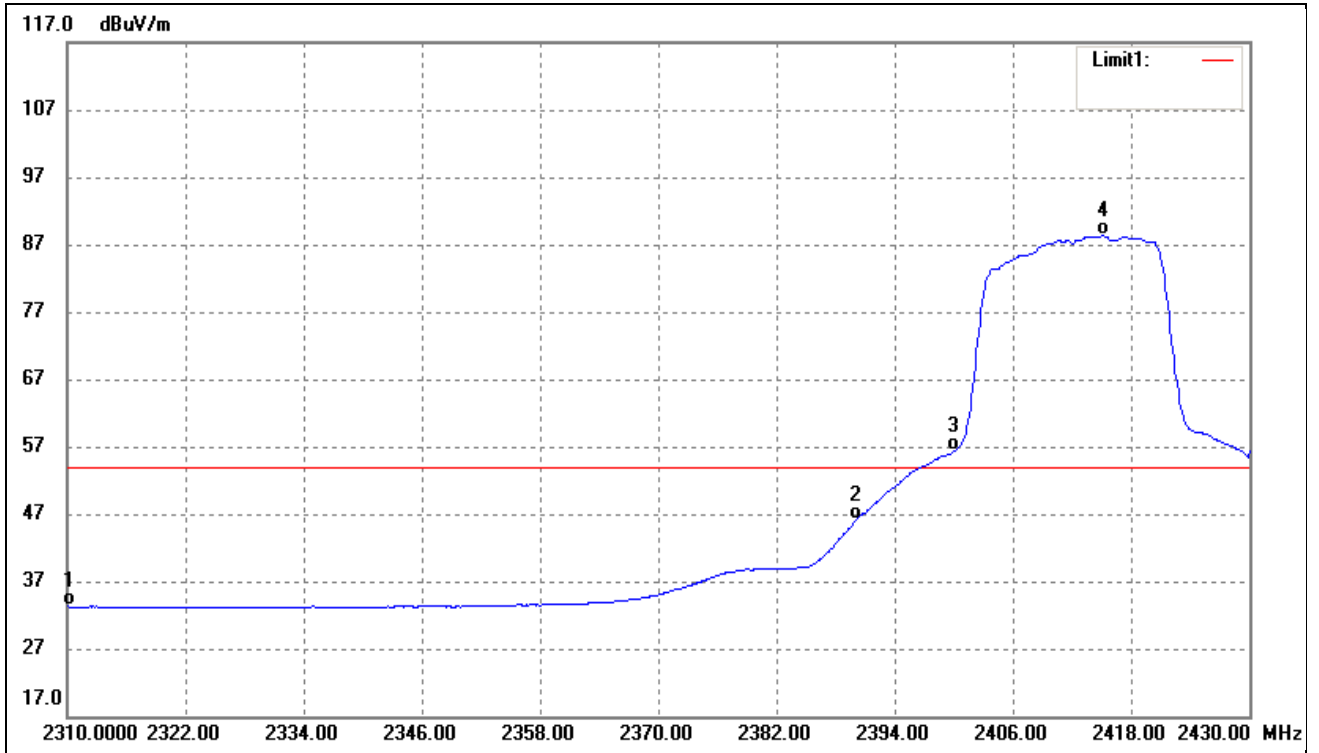


802.11g_54Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



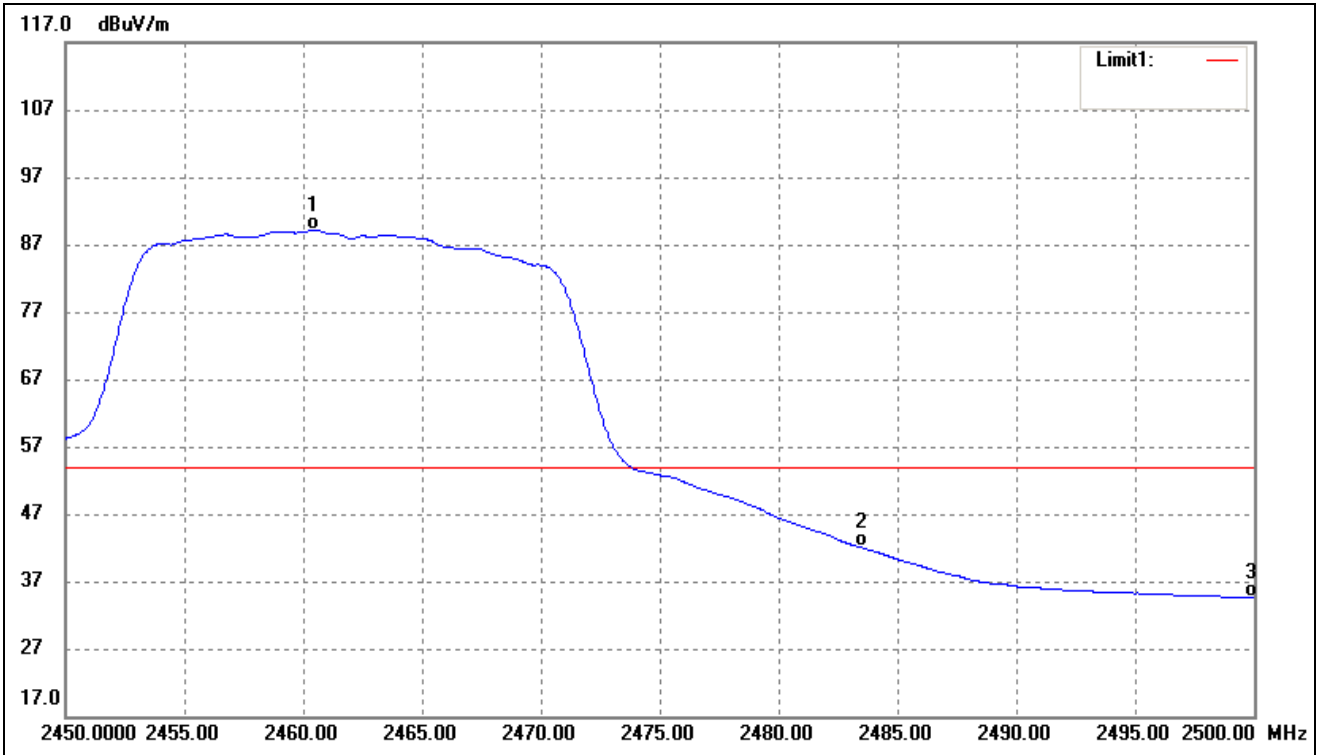
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.900	96.39	-6.90	89.49	/	/	Average Detector
		106.62	-6.90	99.72	/	/	Peak Detector
2	2483.500	47.50	-6.77	40.73	54.00	-13.27	Average Detector
		62.32	-6.77	55.55	74.00	-18.45	Peak Detector
3	2500.000	41.11	-6.67	34.44	54.00	-19.56	Average Detector
		53.33	-6.67	46.66	74.00	-27.34	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



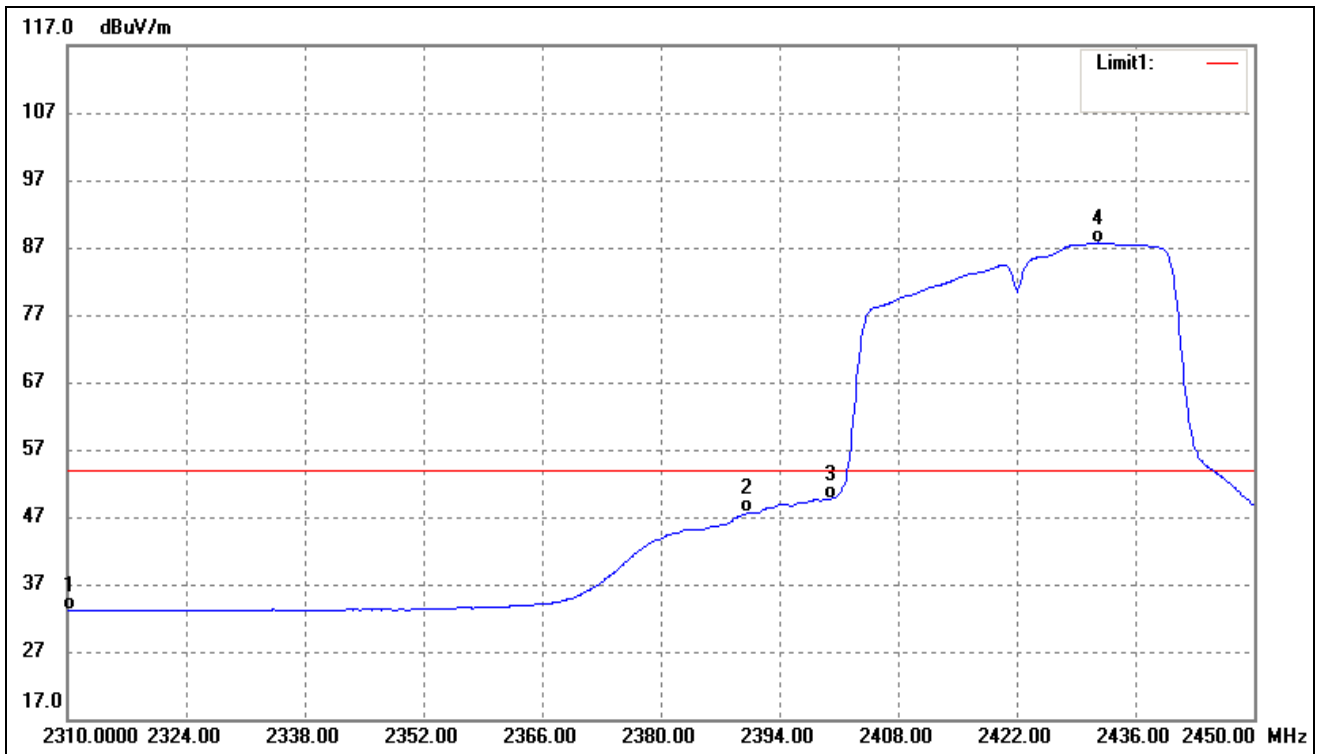
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.05	-7.78	33.27	54.00	-20.73	Average Detector
	2310.000	53.12	-7.78	45.34	74.00	-28.66	Peak Detector
2	2390.000	53.44	-7.32	46.12	54.00	-7.88	Average Detector
	2390.000	74.56	-7.32	67.24	74.00	-6.76	Peak Detector
3	2400.000	63.55	-7.26	56.29	Delta=32.01dBc		Average Detector
4	2415.120	95.47	-7.17	88.30			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



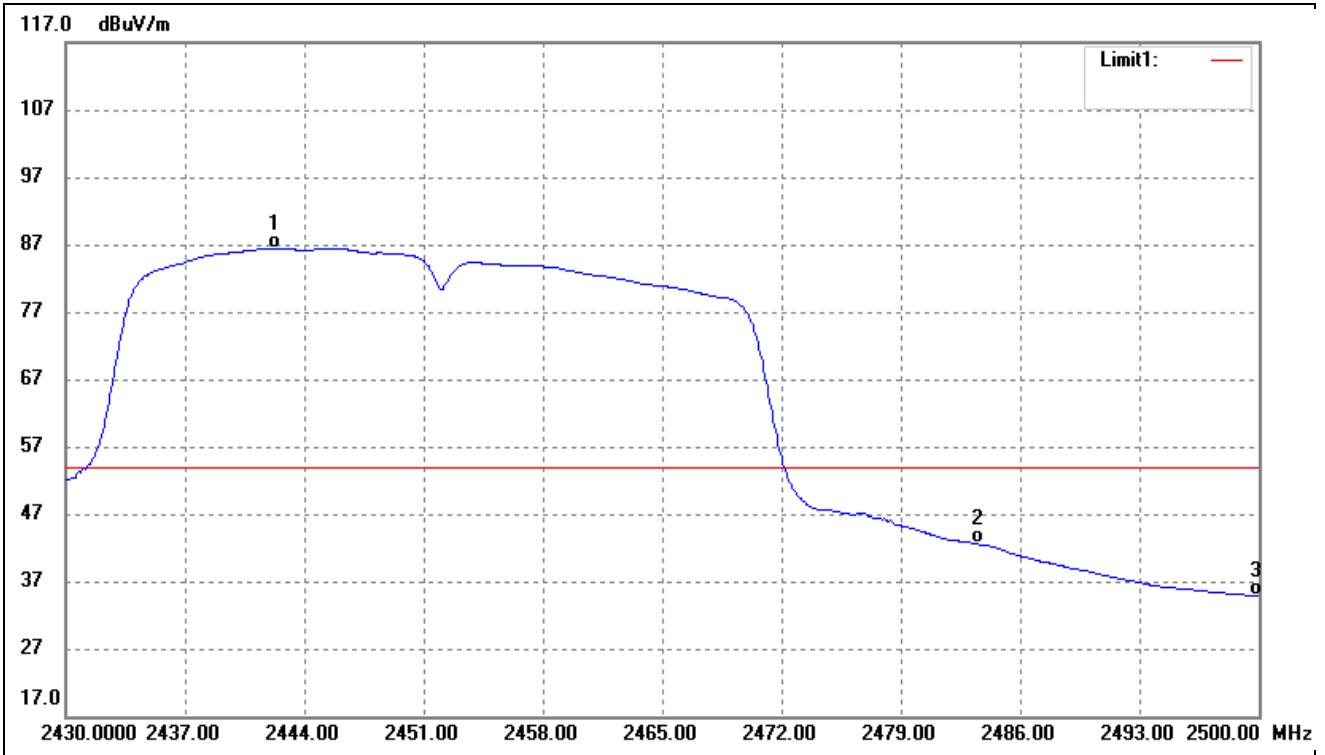
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.450	96.06	-6.90	89.16	/	/	Average Detector
	2458.850	106.52	-6.91	99.61	/	/	Peak Detector
2	2483.500	48.79	-6.77	42.02	54.00	-11.98	Average Detector
	2483.500	65.24	-6.77	58.47	74.00	-15.53	Peak Detector
3	2500.000	41.26	-6.67	34.59	54.00	-19.41	Average Detector
	2500.000	53.05	-6.67	46.38	74.00	-27.62	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.01	-7.78	33.23	54.00	-20.77	Average Detector
	2310.000	52.83	-7.78	45.05	74.00	-28.95	Peak Detector
2	2390.000	54.84	-7.32	47.52	54.00	-6.48	Average Detector
	2390.000	67.44	-7.32	60.12	74.00	-13.88	Peak Detector
3	2400.000	56.98	-7.26	49.72	Delta=38.03dBc		Average Detector
4	2431.520	94.82	-7.07	87.75			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)

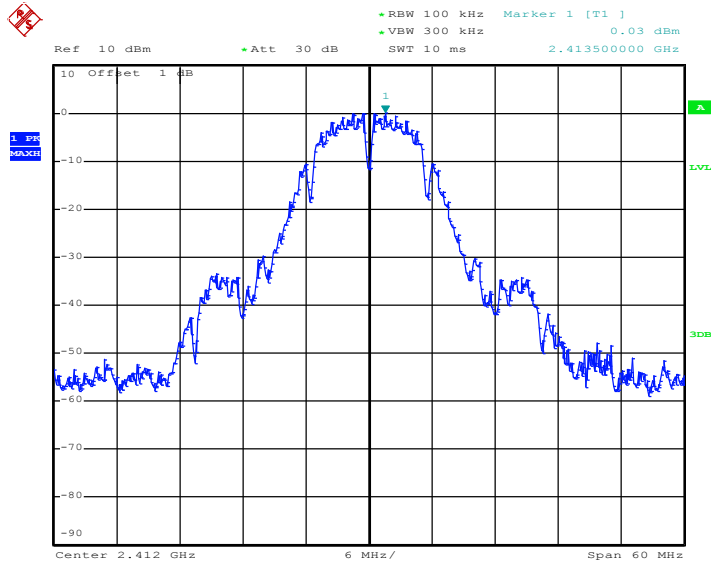


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2442.250	93.40	-7.01	86.39	/	/	Average Detector
	2442.320	103.67	-7.01	96.66	/	/	Peak Detector
2	2483.500	49.34	-6.77	42.57	54.00	-11.43	Average Detector
	2483.500	61.06	-6.77	54.29	74.00	-19.71	Peak Detector
3	2500.000	41.46	-6.67	34.79	54.00	-19.21	Average Detector
	2500.000	52.71	-6.67	46.04	74.00	-27.96	Peak Detector

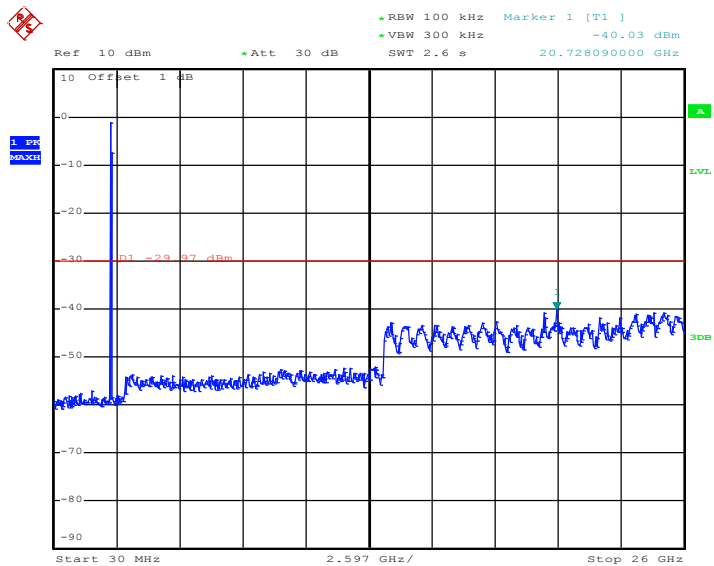
➤ Conducted test

802.11b\_11Mbps

Low



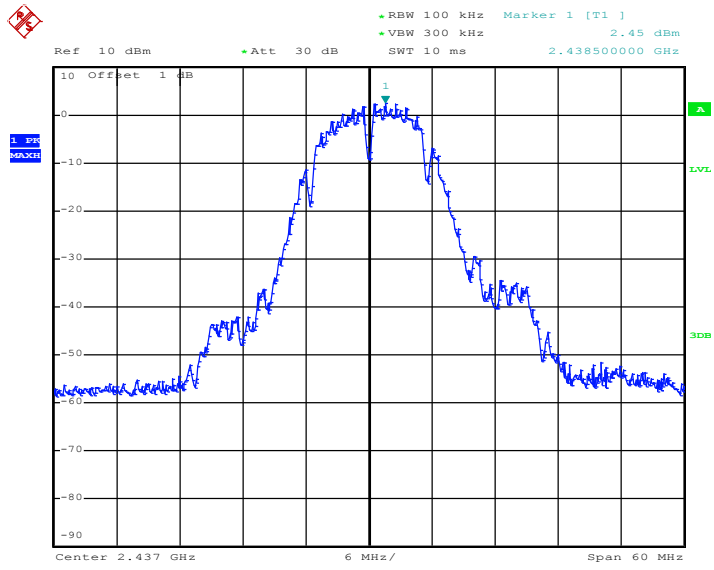
Date: 19.NOV.2018 10:18:15



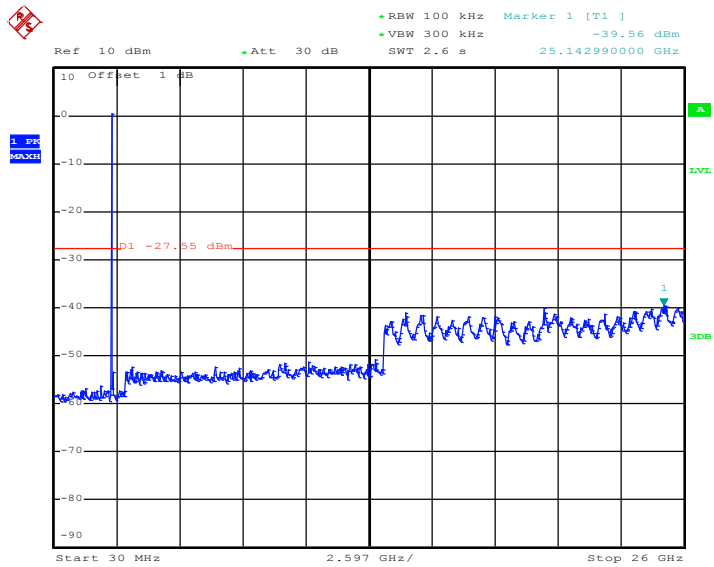
Date: 19.NOV.2018 10:29:15

802.11b\_11Mbps

Middle



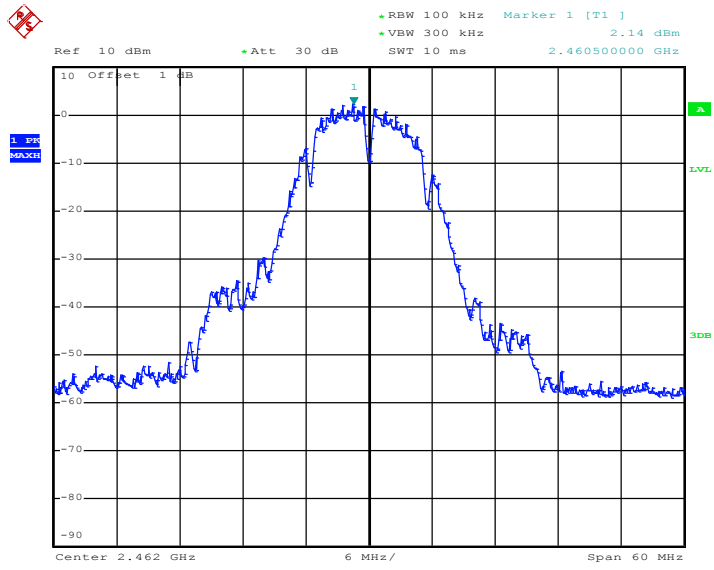
Date: 19.NOV.2018 10:19:52



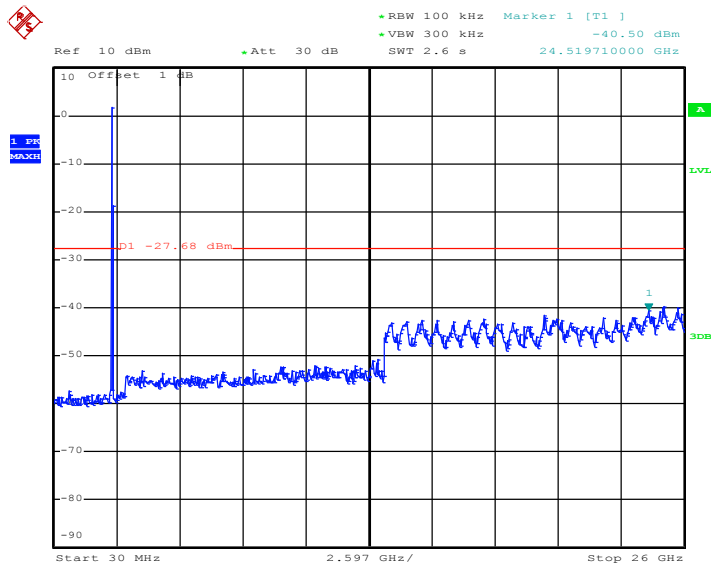
Date: 19.NOV.2018 10:28:34

802.11b\_11Mbps

High



Date: 19.NOV.2018 10:22:19

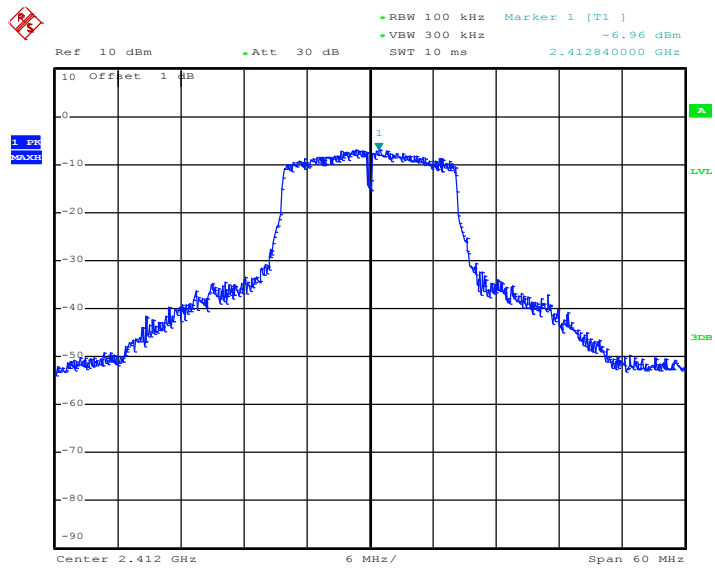


Date: 19.NOV.2018 10:26:15

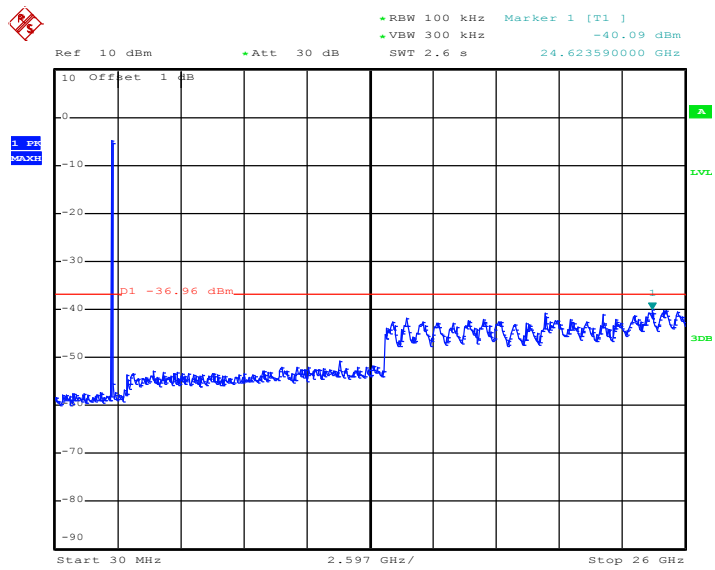


802.11g\_54Mbps

Low



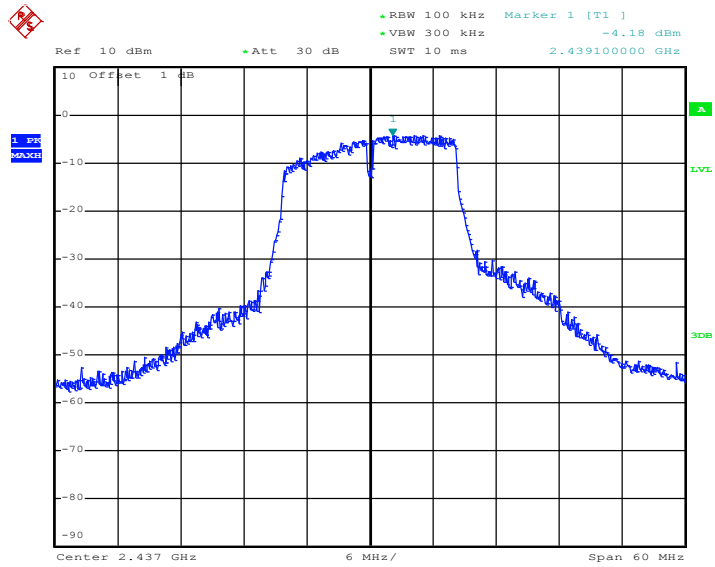
Date: 19.NOV.2018 10:15:17



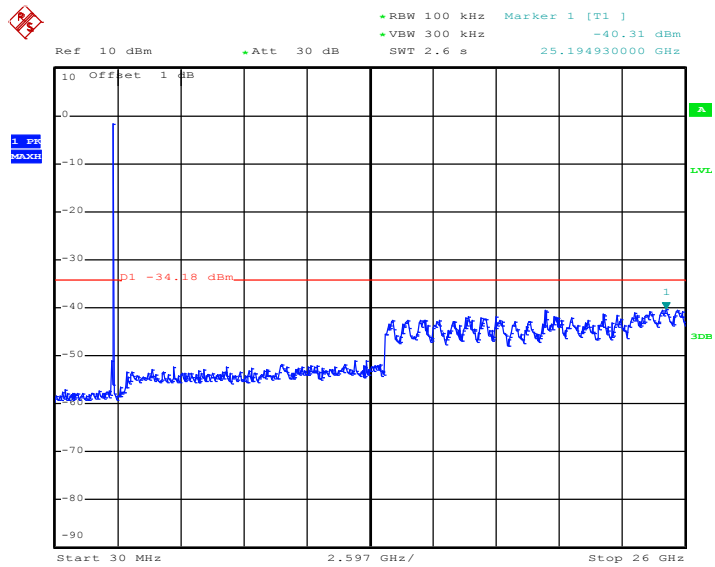
Date: 19.NOV.2018 10:30:45

802.11g\_54Mbps

Middle



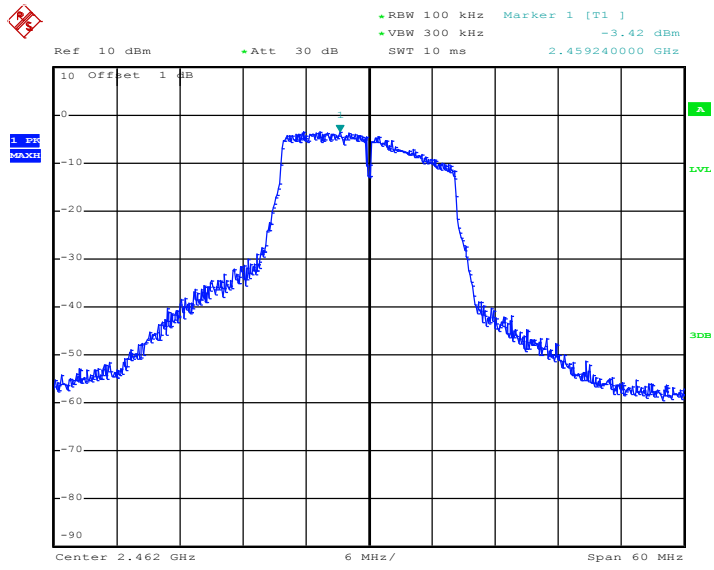
Date: 19.NOV.2018 10:13:12



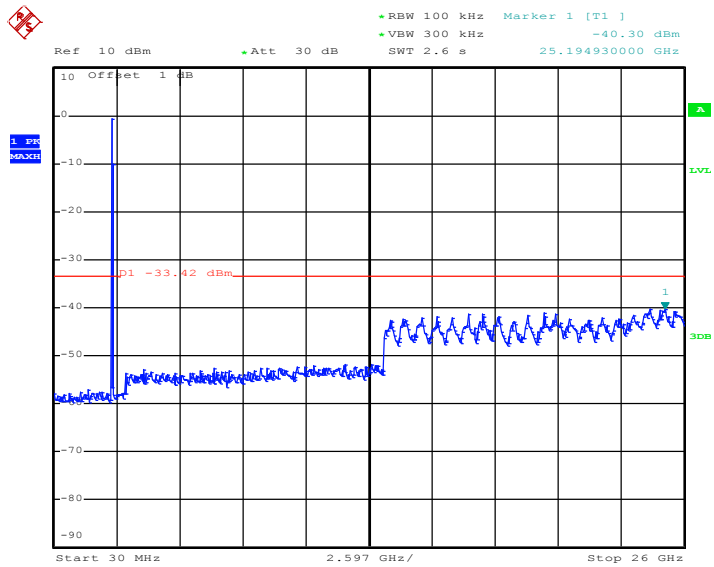
Date: 19.NOV.2018 10:33:19

802.11g\_54Mbps

High



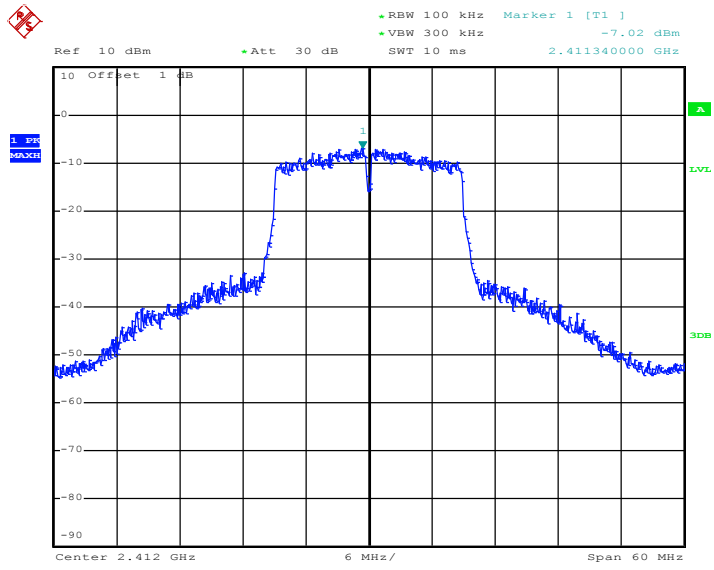
Date: 19.NOV.2018 10:10:51



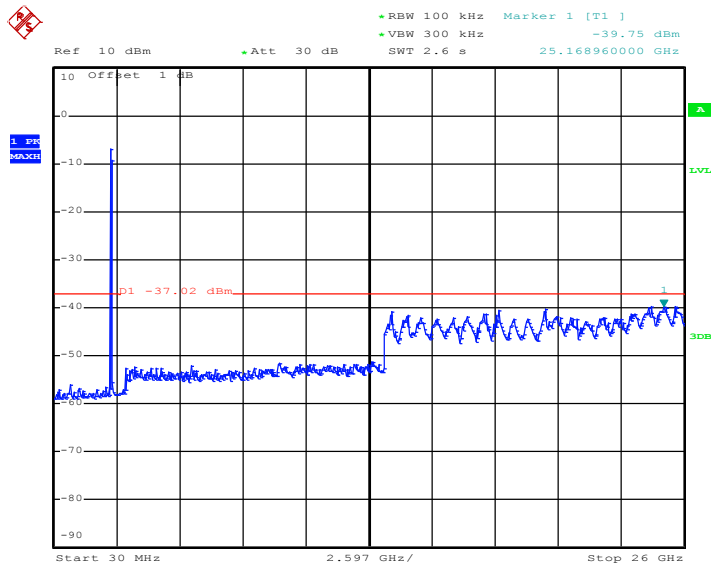
Date: 19.NOV.2018 10:34:38

802.11n-HT20\_MCS7

Low



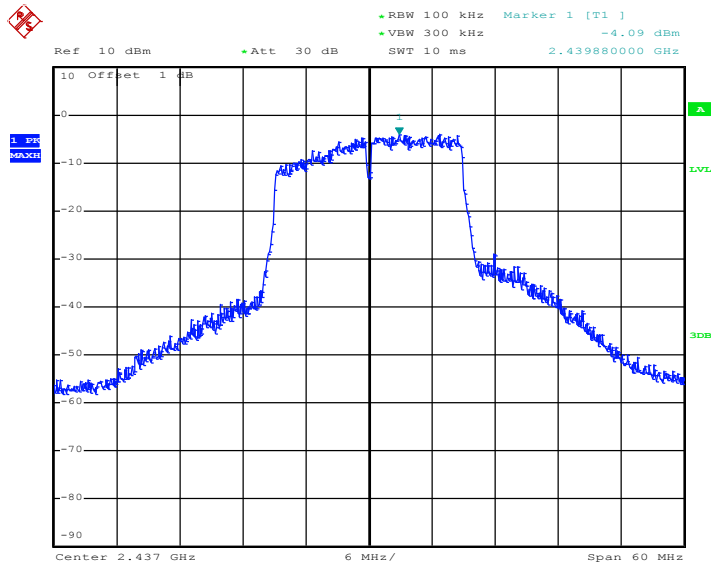
Date: 19.NOV.2018 09:55:52



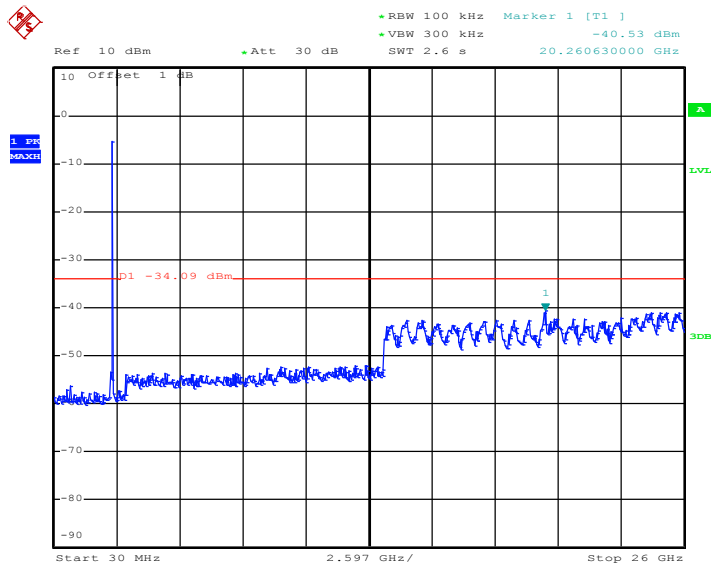
Date: 19.NOV.2018 10:37:50

802.11n-HT20\_MCS7

Middle



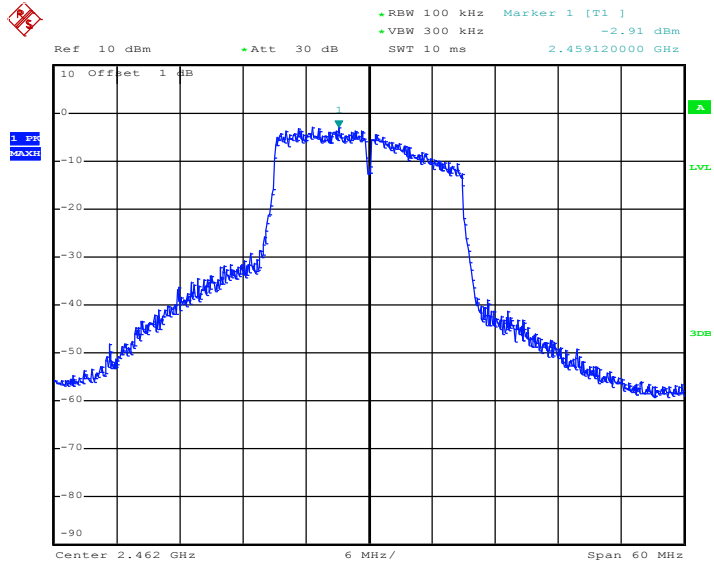
Date: 19.NOV.2018 09:56:39



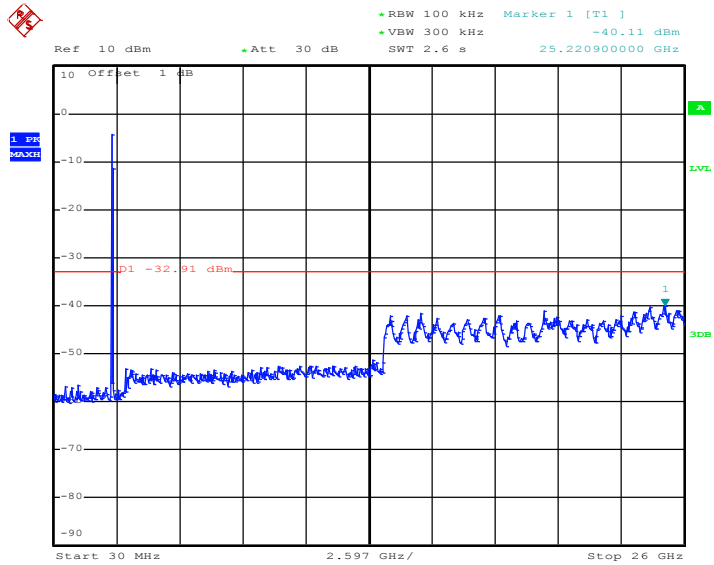
Date: 19.NOV.2018 10:38:31

802.11n-HT20\_MCS7

High



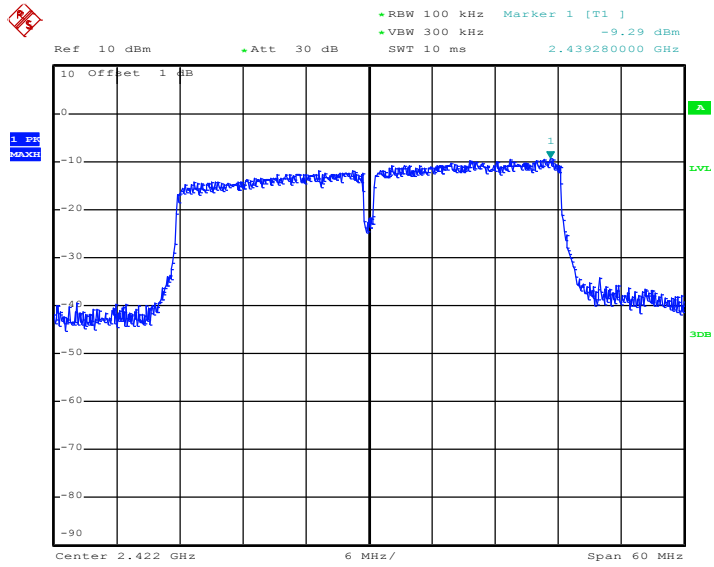
Date: 19.NOV.2018 10:10:11



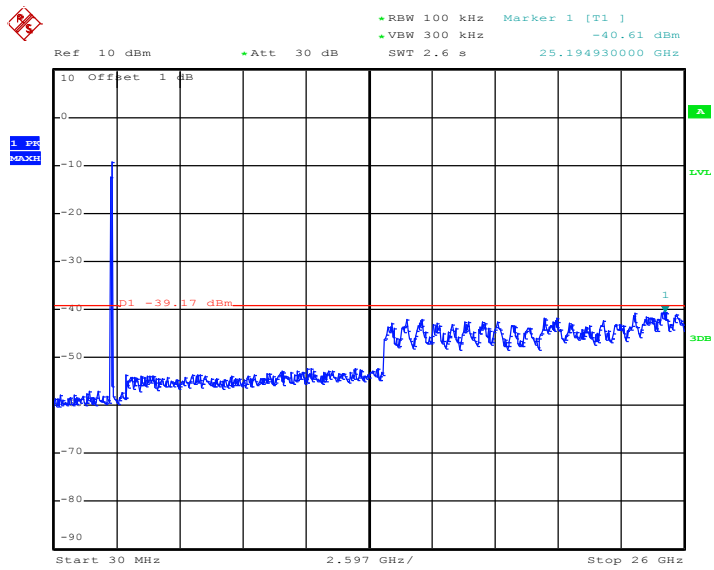
Date: 19.NOV.2018 10:39:09

802.11n-HT40\_MCS7

Low



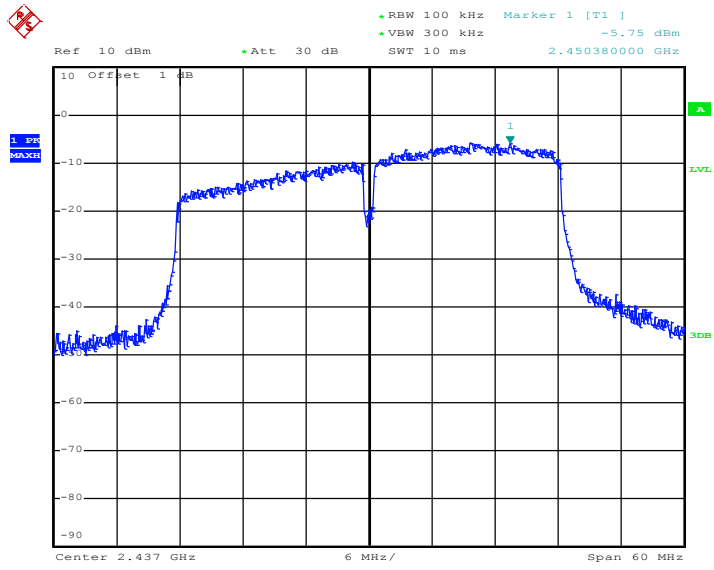
Date: 19.NOV.2018 09:48:10



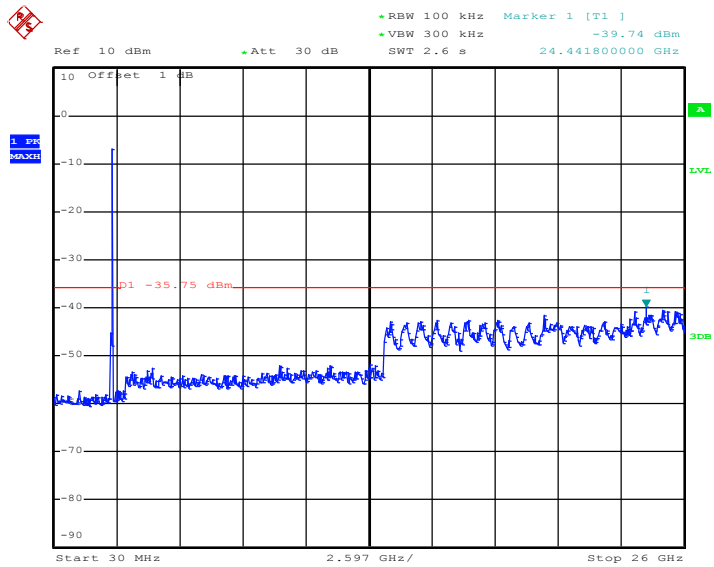
Date: 19.NOV.2018 10:39:42

802.11n-HT40\_MCS7

Middle



Date: 19.NOV.2018 09:51:18

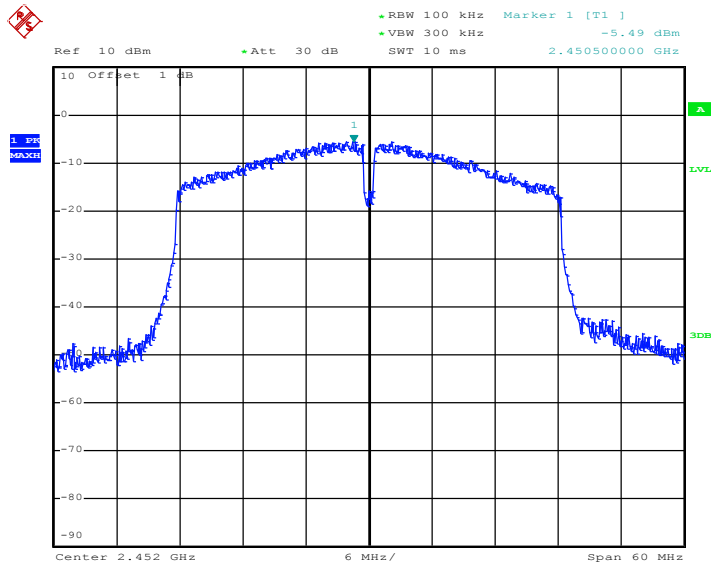


Date: 19.NOV.2018 10:40:23

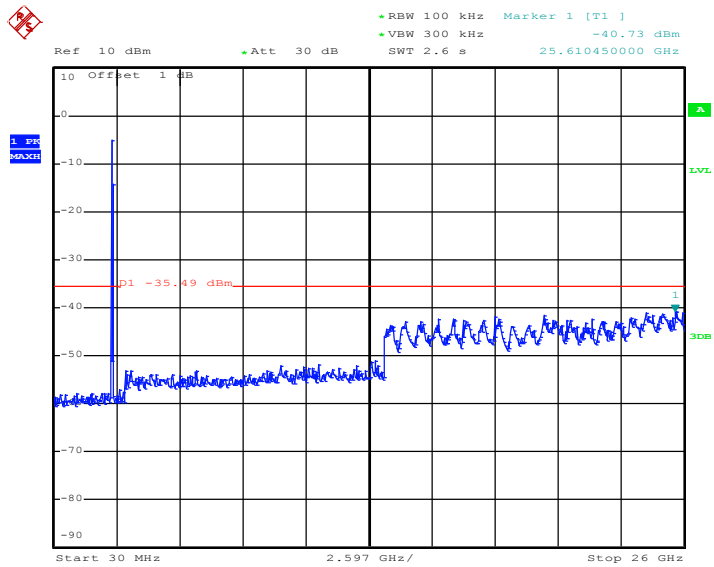


802.11n-HT40\_MCS7

High



Date: 19.NOV.2018 09:42:39



Date: 19.NOV.2018 10:40:58

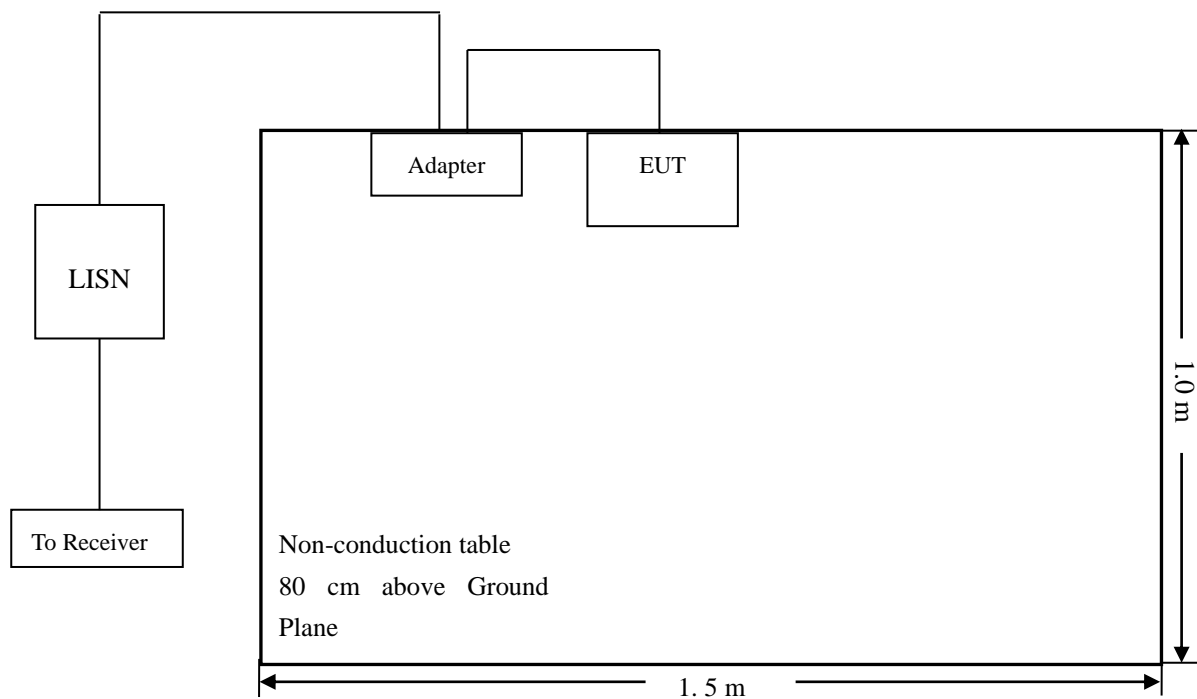
## 10. Conducted Emissions

### 10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

### 10.2 Basic Test Setup Block Diagram



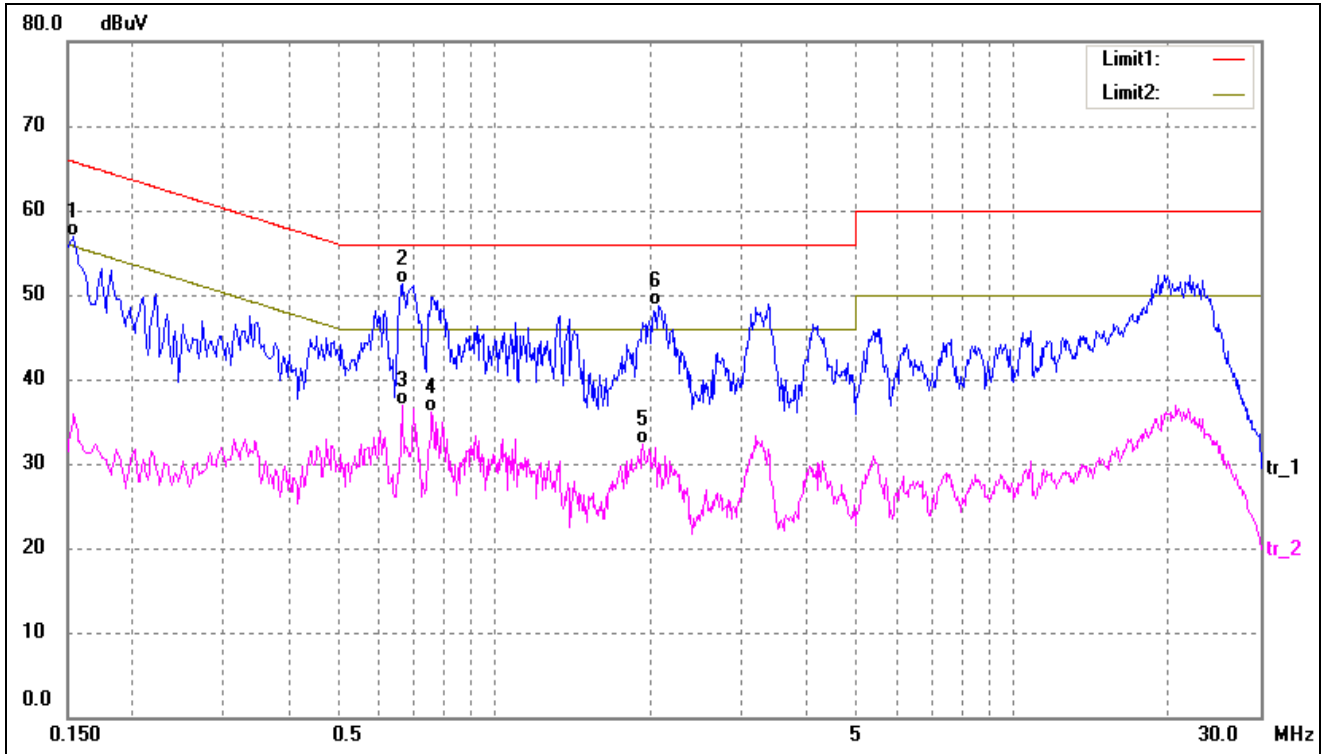
### 10.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency ..... 150 kHz  
 Stop Frequency ..... 30 MHz  
 Sweep Speed ..... Auto  
 IF Bandwidth..... 10 kHz  
 Quasi-Peak Adapter Bandwidth ..... 9 kHz  
 Quasi-Peak Adapter Mode ..... Normal

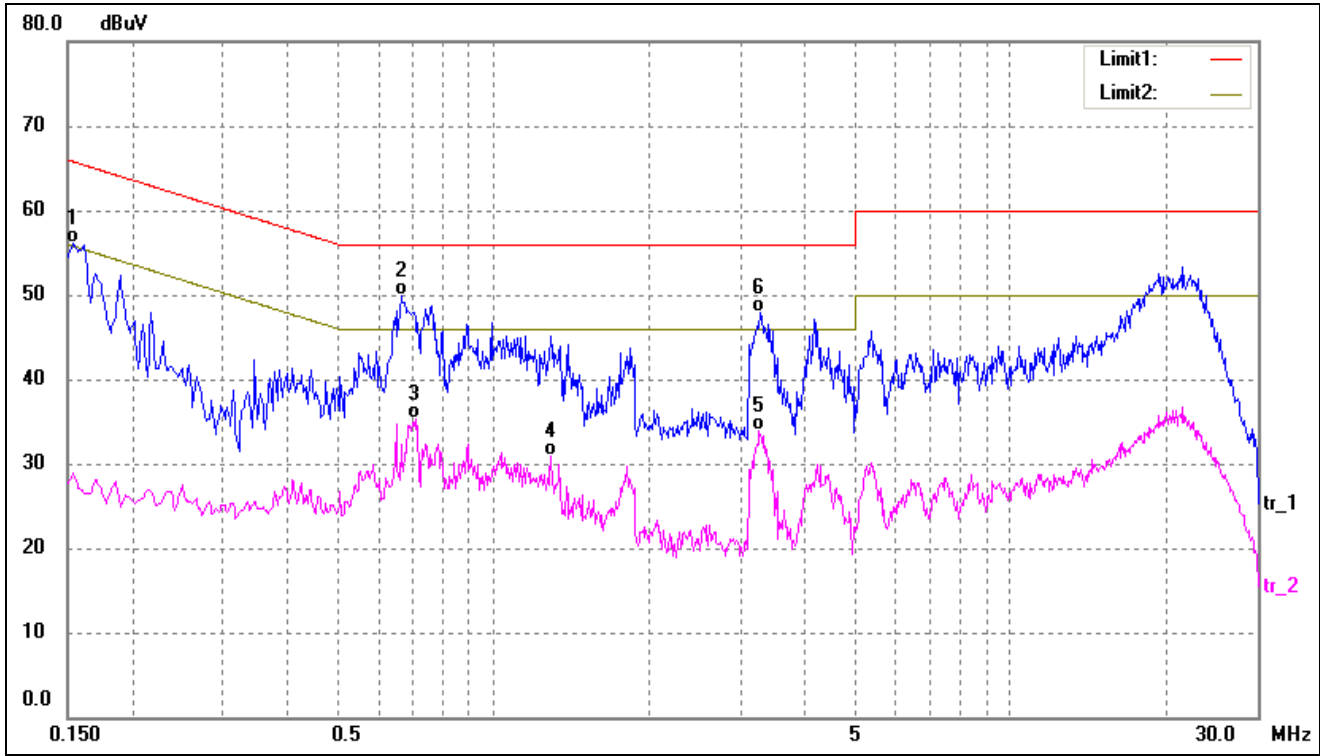
### 10.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	46.79	10.10	56.89	65.78	-8.89	QP
2*	0.6620	40.95	10.38	51.33	56.00	-4.67	QP
3	0.6620	26.53	10.38	36.91	46.00	-9.09	AVG
4	0.7580	25.68	10.41	36.09	46.00	-9.91	AVG
5	1.9380	21.75	10.60	32.35	46.00	-13.65	AVG
6	2.0740	38.14	10.61	48.75	56.00	-7.25	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	46.03	10.10	56.13	65.78	-9.65	QP
2*	0.6620	39.49	10.38	49.87	56.00	-6.13	QP
3	0.7060	24.89	10.39	35.28	46.00	-10.72	AVG
4	1.2900	20.28	10.53	30.81	46.00	-15.19	AVG
5	3.2660	23.31	10.69	34.00	46.00	-12.00	AVG
6	3.2820	37.26	10.69	47.95	56.00	-8.05	QP

\*\*\*\*\* END OF REPORT \*\*\*\*\*