



**CFR 47 FCC PART 15 SUBPART C  
ISED RSS-247 ISSUE 2**

**CERTIFICATION TEST REPORT**

*For*

**Wifi Module**

**MODEL NUMBER: SI07B**

**FCC ID: 2AFG6-SI07B**

**IC: 22166-SI07B**

**REPORT NUMBER: 4790081439-4**

**ISSUE DATE: October 31, 2021**

*Prepared for*

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	10/31/2021	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Results
1	6dB Bandwidth and 99% Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
2	Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d)	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 5.5	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test for AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass

Note:

- 1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>6</b>
<b>2. TEST METHODOLOGY .....</b>	<b>7</b>
<b>3. FACILITIES AND ACCREDITATION .....</b>	<b>7</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>8</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION .....</i>	<i>8</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>8</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>9</b>
5.1. <i>DESCRIPTION OF EUT .....</i>	<i>9</i>
5.2. <i>CHANNEL LIST.....</i>	<i>9</i>
5.3. <i>MAXIMUM OUTPUT POWER.....</i>	<i>10</i>
5.4. <i>TEST CHANNEL CONFIGURATION.....</i>	<i>10</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER.....</i>	<i>10</i>
5.6. <i>THE WORSE CASE CONFIGURATIONS .....</i>	<i>11</i>
5.7. <i>DESCRIPTION OF AVAILABLE ANTENNAS .....</i>	<i>12</i>
5.8. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>13</i>
<b>6. MEASURING INSTRUMENT AND SOFTWARE USED .....</b>	<b>14</b>
<b>7. ANTENNA PORT TEST RESULTS .....</b>	<b>16</b>
7.1. <i>ON TIME AND DUTY CYCLE.....</i>	<i>16</i>
7.2. <i>6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH .....</i>	<i>17</i>
7.3. <i>CONDUCTED OUTPUT POWER.....</i>	<i>19</i>
7.4. <i>POWER SPECTRAL DENSITY.....</i>	<i>20</i>
7.5. <i>CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS.....</i>	<i>22</i>
<b>8. RADIATED TEST RESULTS.....</b>	<b>24</b>
8.1. <i>RESTRICTED BANDEDGE.....</i>	<i>30</i>
8.1.1. <i>802.11b MODE .....</i>	<i>30</i>
8.1.2. <i>802.11g MODE .....</i>	<i>34</i>
8.1.3. <i>802.11n HT20 MODE .....</i>	<i>38</i>
8.1.4. <i>802.11n HT40 MODE .....</i>	<i>42</i>
8.1.5. <i>802.11ax HE20 MODE .....</i>	<i>46</i>
8.1.6. <i>802.11ax HE40 MODE .....</i>	<i>50</i>
8.2. <i>SPURIOUS EMISSIONS (1 GHz ~ 3 GHz).....</i>	<i>54</i>
8.2.1. <i>802.11n HT20 MODE .....</i>	<i>54</i>
8.3. <i>SPURIOUS EMISSIONS (3 GHz ~ 18 GHz).....</i>	<i>60</i>
8.3.1. <i>802.11b MODE .....</i>	<i>60</i>
8.3.2. <i>802.11g MODE .....</i>	<i>66</i>



8.3.3.	802.11n HT20 MODE .....	72
8.3.4.	802.11n HT40 MODE .....	78
8.3.5.	802.11ax HE20 MODE .....	84
8.3.6.	802.11ax HE40 MODE .....	90
8.5.	<i>SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)</i> .....	96
8.5.1.	802.11n HT20 MODE .....	96
8.6.	<i>SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)</i> .....	98
8.6.1.	802.11n HT20 MODE .....	98
8.7.	<i>SPURIOUS EMISSIONS BELOW 30 MHz</i> .....	100
8.7.1.	802.11n HT20 MODE .....	100
<b>9.</b>	<b>AC POWER LINE CONDUCTED EMISSIONS</b> .....	<b>103</b>
9.1.	802.11n HT20 MODE .....	104
<b>10.</b>	<b>ANTENNA REQUIREMENTS</b> .....	<b>106</b>
<b>11.</b>	<b>Appendix</b> .....	<b>107</b>
11.1.	<i>Appendix A: DTS Bandwidth</i> .....	107
11.1.1.	Test Result .....	107
11.1.2.	Test Graphs .....	108
11.2.	<i>Appendix B: Occupied Channel Bandwidth</i> .....	114
11.2.1.	Test Result .....	114
11.2.2.	Test Graphs .....	115
11.3.	<i>Appendix C: Maximum Average Conducted Output Power</i> .....	121
11.3.1.	Test Result .....	121
11.4.	<i>Appendix D: Maximum Power Spectral Density</i> .....	122
11.4.1.	Test Result .....	122
11.4.2.	Test Graphs .....	123
11.5.	<i>Appendix E: Band Edge Measurements</i> .....	129
11.5.1.	Test Result .....	129
11.5.2.	Test Graphs .....	130
11.6.	<i>Appendix F: Conducted Spurious Emission</i> .....	134
11.6.1.	Test Result .....	134
11.6.2.	Test Graphs .....	136
11.7.	<i>Appendix G: Duty Cycle</i> .....	137
11.7.1.	Test Result .....	137
11.7.2.	Test Graphs .....	138



# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Guangzhou Shirui Electronics Co., Ltd.  
Address: 192 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, Guangdong, China

## Manufacturer Information

Company Name: Guangzhou Shirui Electronics Co., Ltd.  
Address: 192 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, Guangdong, China

## EUT Information

EUT Name: Wifi Module  
Model: SI07B  
Sample Received Date: August 31, 2021  
Sample Status: Normal  
Sample ID: 4175726  
Date of Tested: September 1, 2021 ~ October 30, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS
ISED RSS-247 Issue 2	PASS
ISED RSS-GEN Issue 5	PASS

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Approved By:

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

EUT Name	Wifi Module
Model Name	SI07B
Radio Technology	WLAN (IEEE 802.11b/g/n HT20/n HT40 ax HE20/ax HE40)
Operation frequency	IEEE 802.11b: 2412MHz ~ 2462MHz IEEE 802.11g: 2412MHz ~ 2462MHz IEEE 802.11n HT20: 2412MHz ~ 2462MHz IEEE 802.11n HT40: 2422MHz ~ 2452MHz IEEE 802.11ax HE20: 2412MHz ~ 2462MHz IEEE 802.11ax HE40: 2422MHz ~ 2452MHz
Modulation	IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (BPSK, QPSK,16QAM,64QAM, 256QAM, 1024QAM) IEEE 802.11ax HE40: OFDMA (BPSK, QPSK,16QAM,64QAM, 256QAM, 1024QAM)
Rated Input	DC 5 V

### 5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ax (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/



### 5.3. MAXIMUM OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	8.63
g	2412 ~ 2462	1-11[11]	5.97
n HT20	2412 ~ 2462	1-11[11]	12.73
n HT40	2422 ~ 2452	3-9[7]	12.66
ax HE20	2412 ~ 2462	1-11[11]	12.73
ax HE40	2422 ~ 2452	3-9[7]	12.15

### 5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

### 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		SecureCRT					
IEEE Std. 802.11	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
b	1	2	2	3	/		
g	1	5	5	5			
n HT20	1	11	11	11			
n HT40	1	/			11	11	11
ax HE20	1	11	11	11	/		
ax HE40	1	/			11	11	11



## 5.6. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

802.11ax HE20 mode: MCS0

802.11ax HE40 mode: MCS0

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.



### 5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
0	2412-2462	PCB	3.75

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11g	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

## 5.8. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	XIAOXIN 5000	/
2	Main Board	/	/	/
3	Serial to USB Board	/	/	/
3	AC Power Adapter	/	/	

### I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	Unshielded	1.0	/

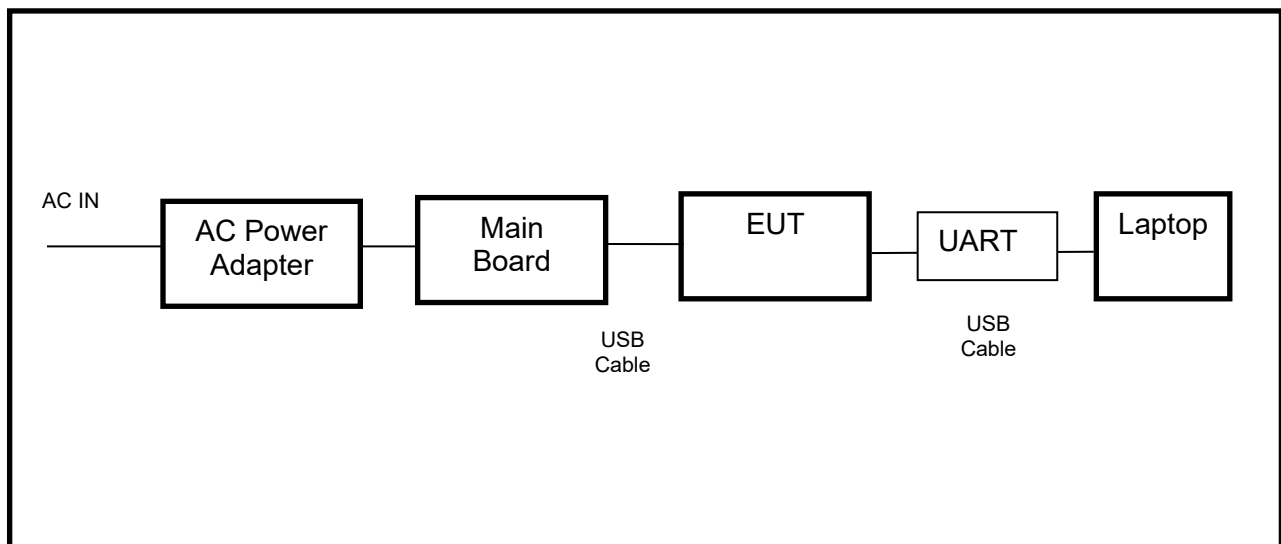
### ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

### TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

### SETUP DIAGRAM FOR TESTS





## 6. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V-Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Nov. 12, 2020	Nov. 11, 2021
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Apr. 24, 2020	Apr. 23, 2023
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021
Horn Antenna	TDK	HRN-0118	130940	Jul. 20, 2021	Jul. 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308-00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Nov. 12, 2020	Nov. 11, 2021



Software			
Description	Manufacturer	Name	Version
Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Nov.20,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Nov.20,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Nov.20,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Nov.20,2020	Nov.19,2021
DC power supply	Keysight	E3642A	MY55159130	Nov.24,2020	Nov.23,2021
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		2.6.77.0518	

Other Instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Nov. 20, 2020	Nov. 19, 2021
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Nov. 20, 2020	Nov. 19, 2021

## 7. ANTENNA PORT TEST RESULTS

### 7.1. ON TIME AND DUTY CYCLE

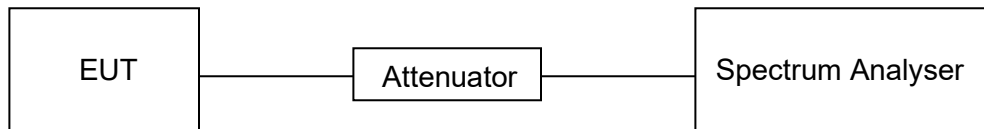
#### LIMITS

None; for reporting purposes only

#### PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	26.1 °C	Relative Humidity	55.7 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

#### RESULTS

Please refer to appendix G.



## 7.2. 6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

### LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

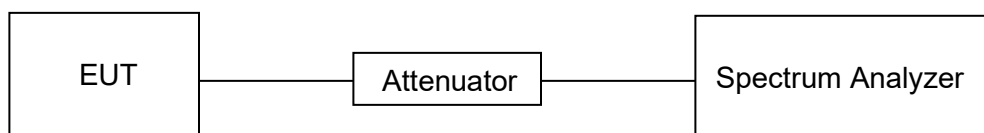
### TEST PROCEDURE

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and 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.

### TEST SETUP





**TEST ENVIRONMENT**

Temperature	26.1 °C	Relative Humidity	55.7 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

**RESULTS**

Please refer to appendix A & B.

### 7.3. CONDUCTED OUTPUT POWER

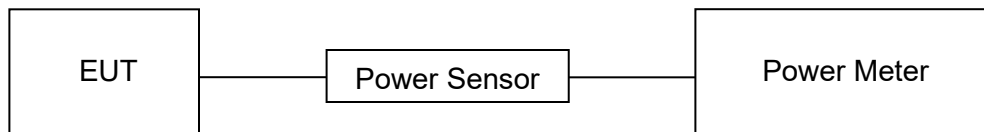
#### LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

#### TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth). Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	26.1 °C	Relative Humidity	55.7 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

#### RESULTS

Please refer to appendix C1 & C2.

## 7.4. POWER SPECTRAL DENSITY

### LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

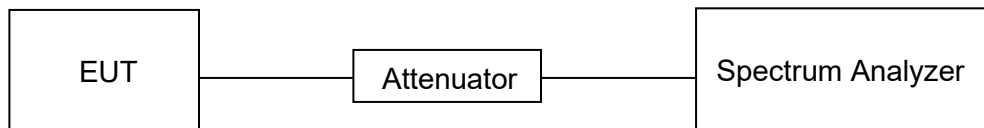
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### TEST SETUP



### TEST ENVIRONMENT

Temperature	26.1 °C	Relative Humidity	55.7 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V



**RESULTS**

Please refer to appendix D.

## 7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

### LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

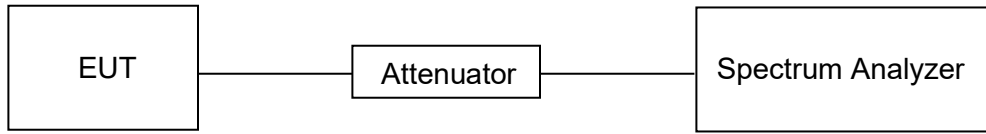
Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.



**TEST SETUP**



**TEST ENVIRONMENT**

Temperature	26.1 °C	Relative Humidity	55.7 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

**RESULTS**

Please refer to appendix E & F.



## 8. RADIATED TEST RESULTS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (uA/m)	Measurement distance (m)
9 - 490 kHz <sup>Note 1</sup>	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.





ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands <sup>Note 1</sup>		
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.028	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

**Note 1:** Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

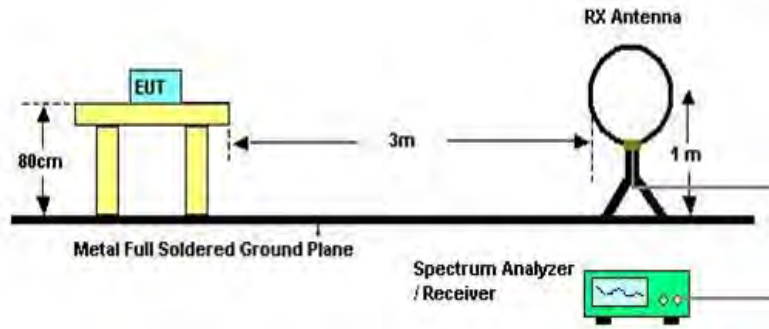
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

**TEST SETUP AND PROCEDURE**

Below 30 MHz

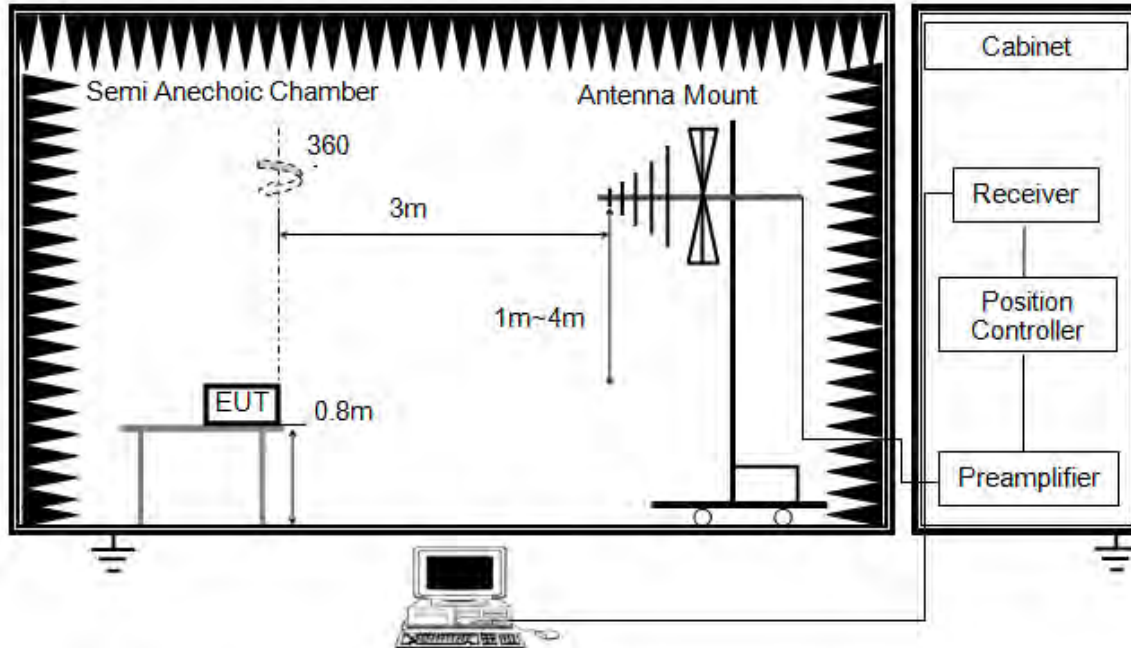


The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11 and 11.12.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω; For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y - 51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

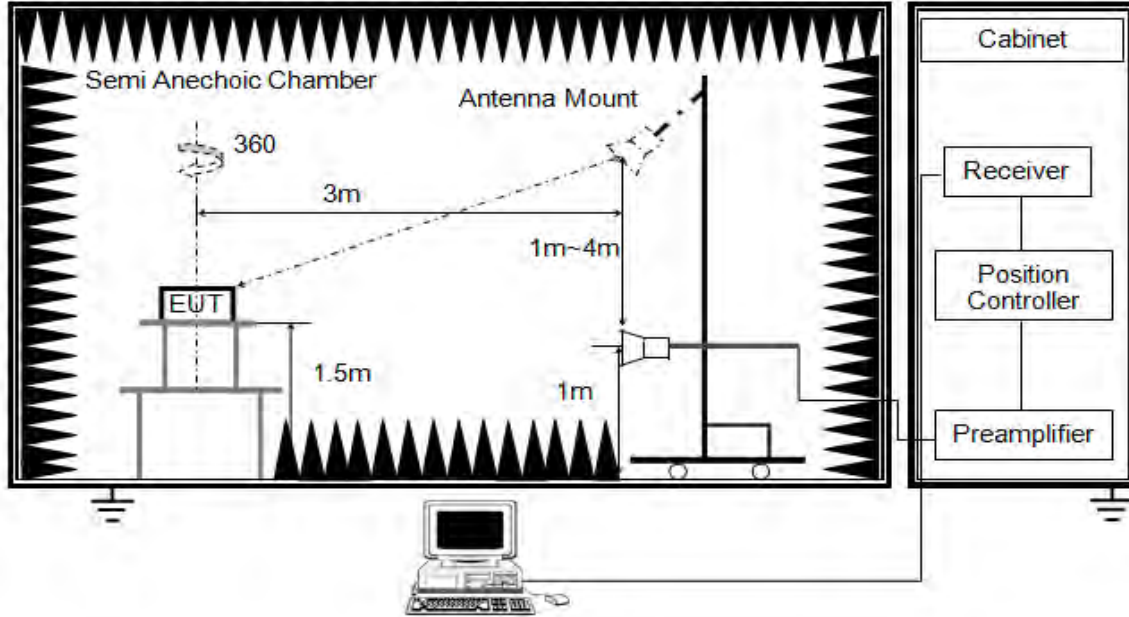


The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

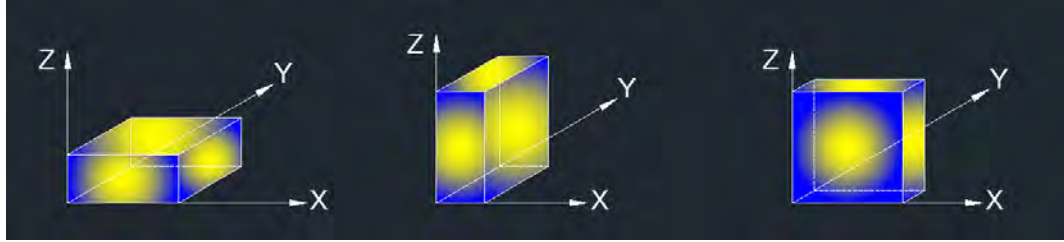


The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Y axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

### **TEST ENVIRONMENT**

Temperature	24.3 °C	Relative Humidity	61 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

### **RESULTS**

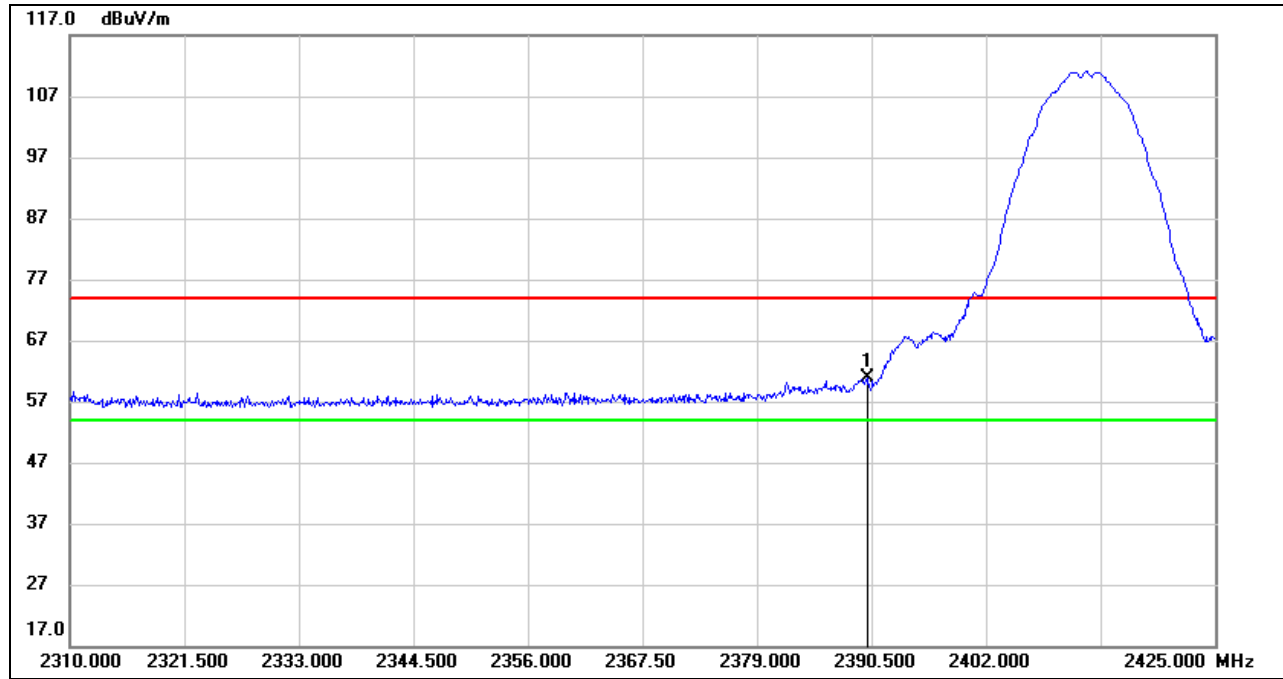


### 8.1. RESTRICTED BANDEDGE

#### 8.1.1. 802.11b MODE

#### RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

#### PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.63	33.35	60.98	74.00	-13.02	peak

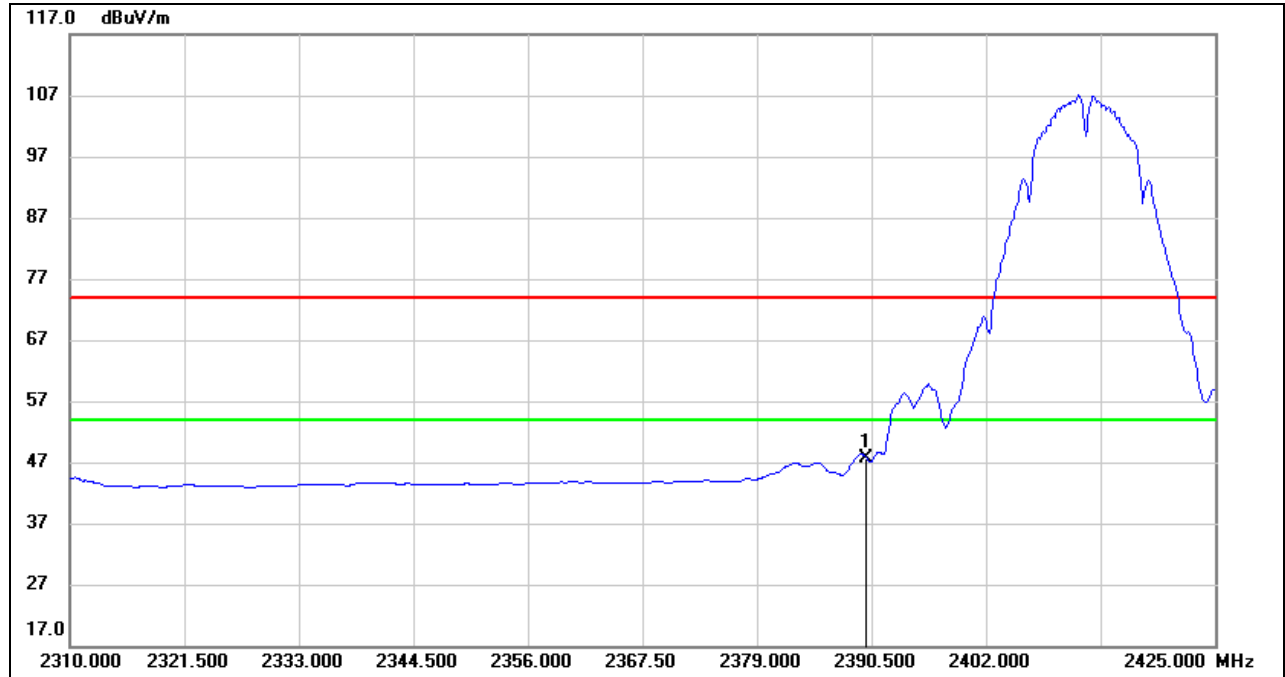
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



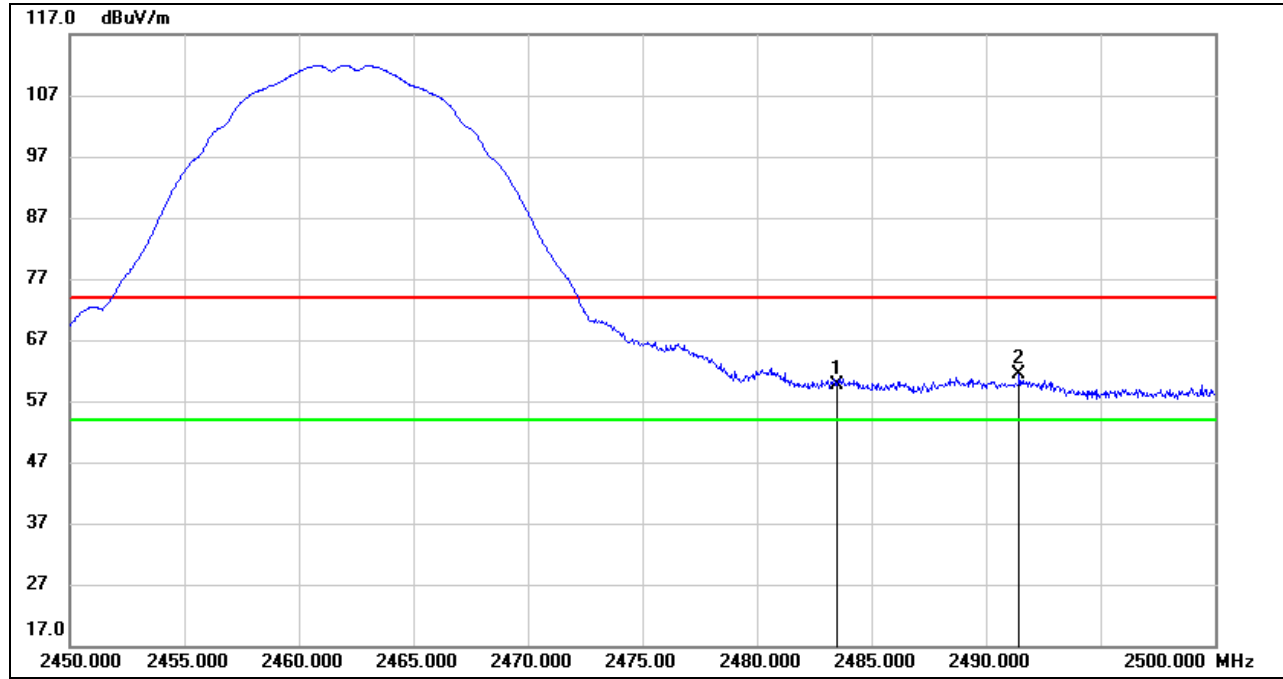
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.25	33.35	47.60	54.00	-6.40	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	25.94	33.71	59.65	74.00	-14.35	peak
2	2491.450	27.56	33.73	61.29	74.00	-12.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.

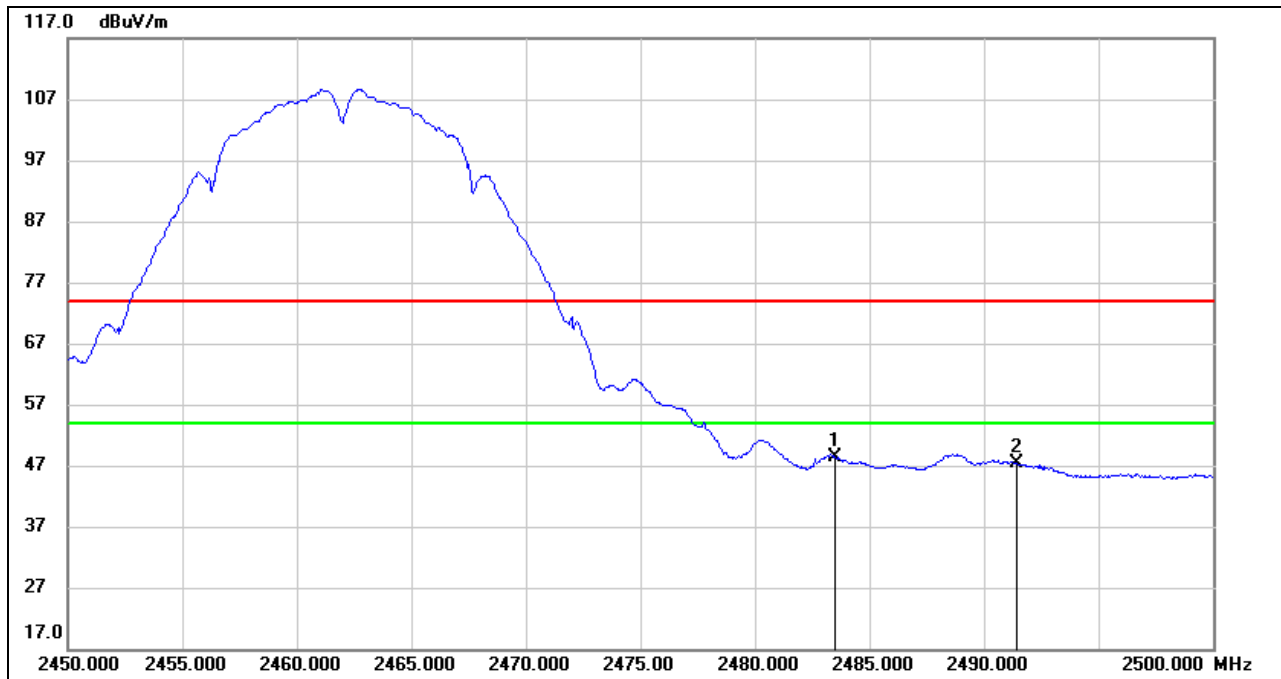
2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.62	33.71	48.33	54.00	-5.67	AVG
2	2491.450	13.53	33.73	47.26	54.00	-6.74	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

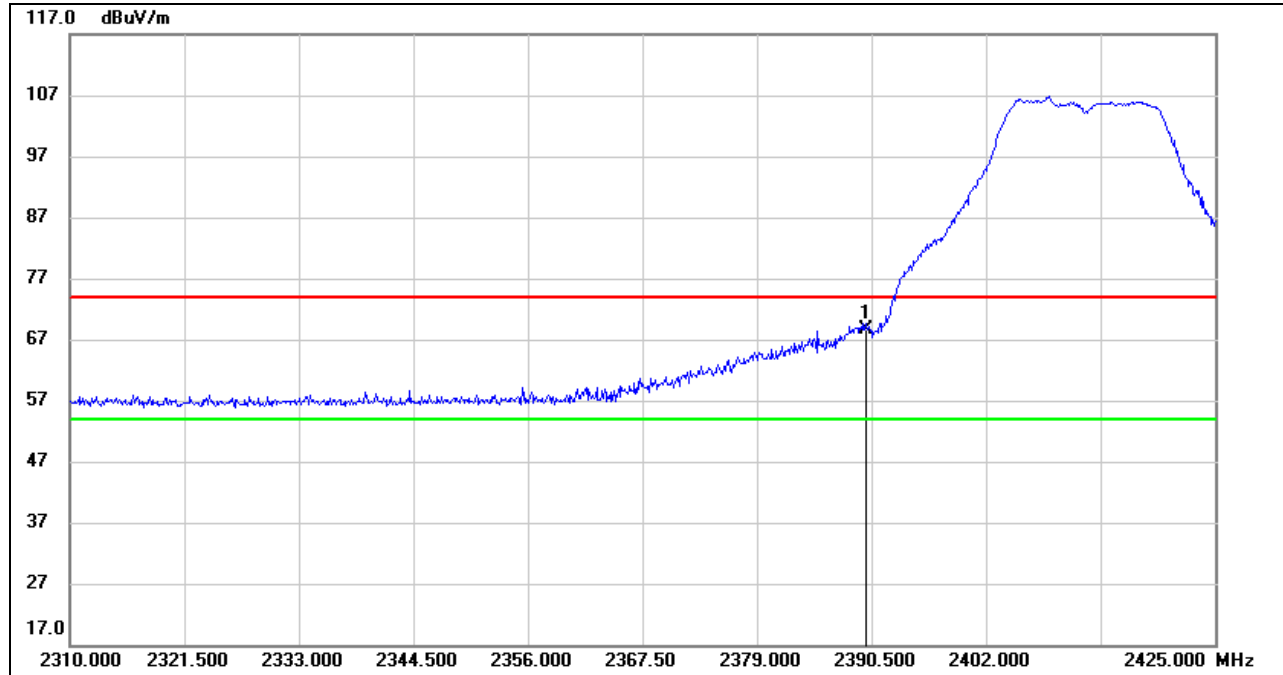
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.



8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	35.17	33.35	68.52	74.00	-5.48	peak

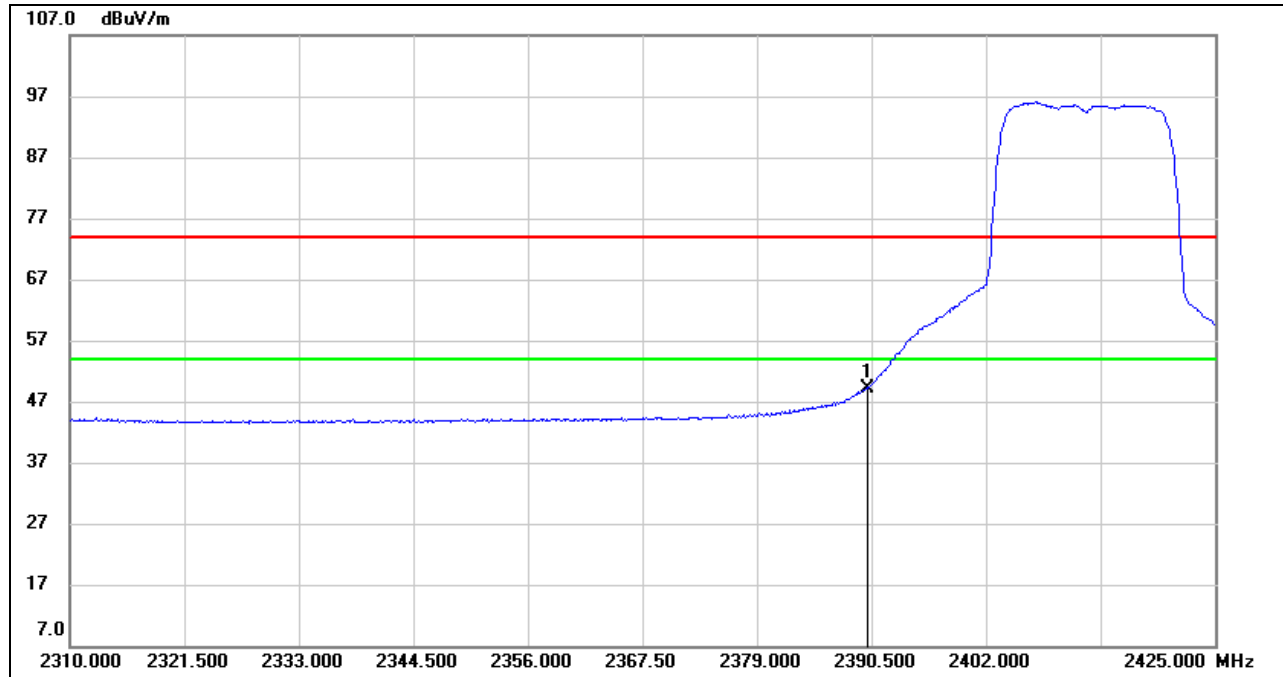
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



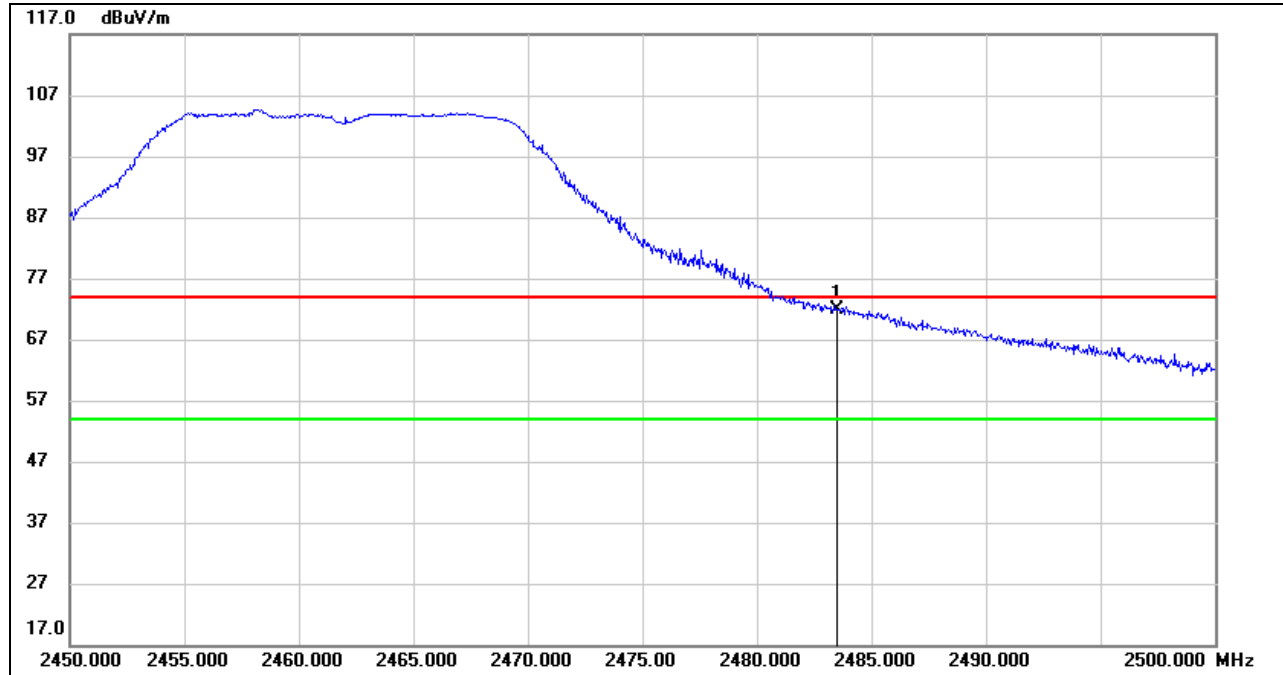
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	15.76	33.35	49.11	54.00	-4.89	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. AVG:  $VBW=1/Ton$ , where:  $Ton$  is the transmitting duration.
  3. For the transmitting duration, please refer to clause 7.1.
  4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**

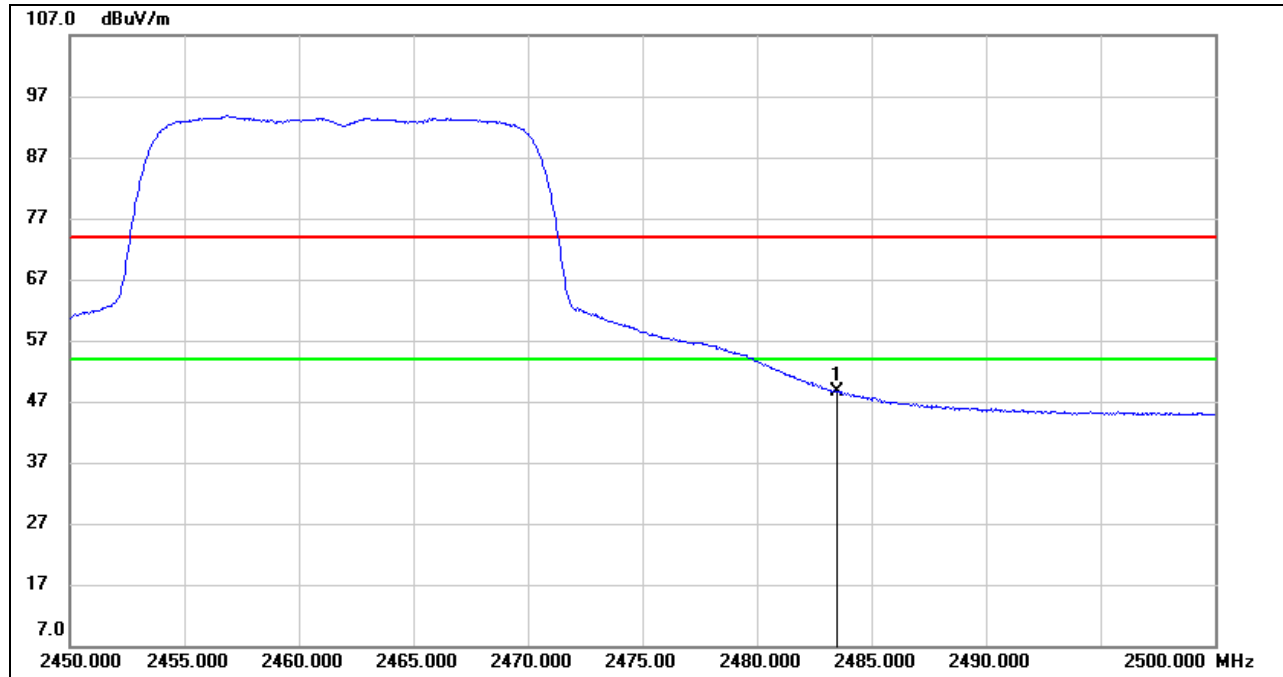


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.06	33.71	71.77	74.00	-2.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.88	33.71	48.59	54.00	-5.41	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  3. For the transmitting duration, please refer to clause 7.1.
  4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

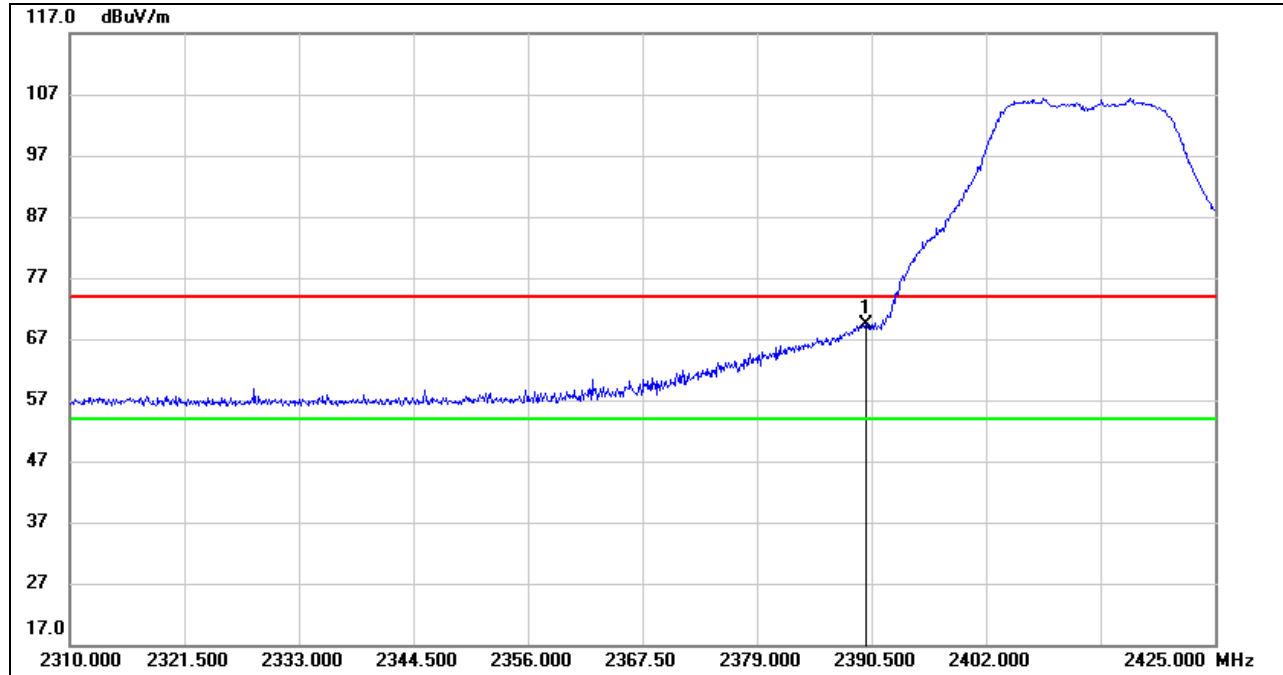
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.



8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



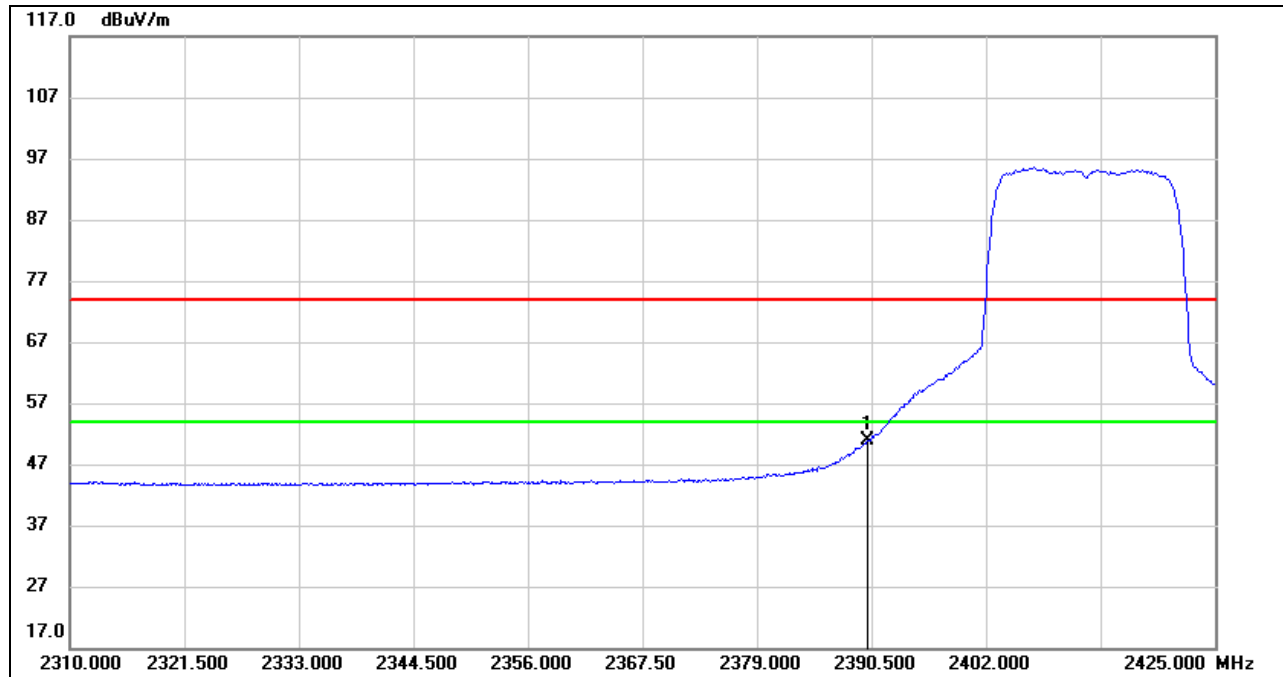
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	35.96	33.35	69.31	74.00	-4.69	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**



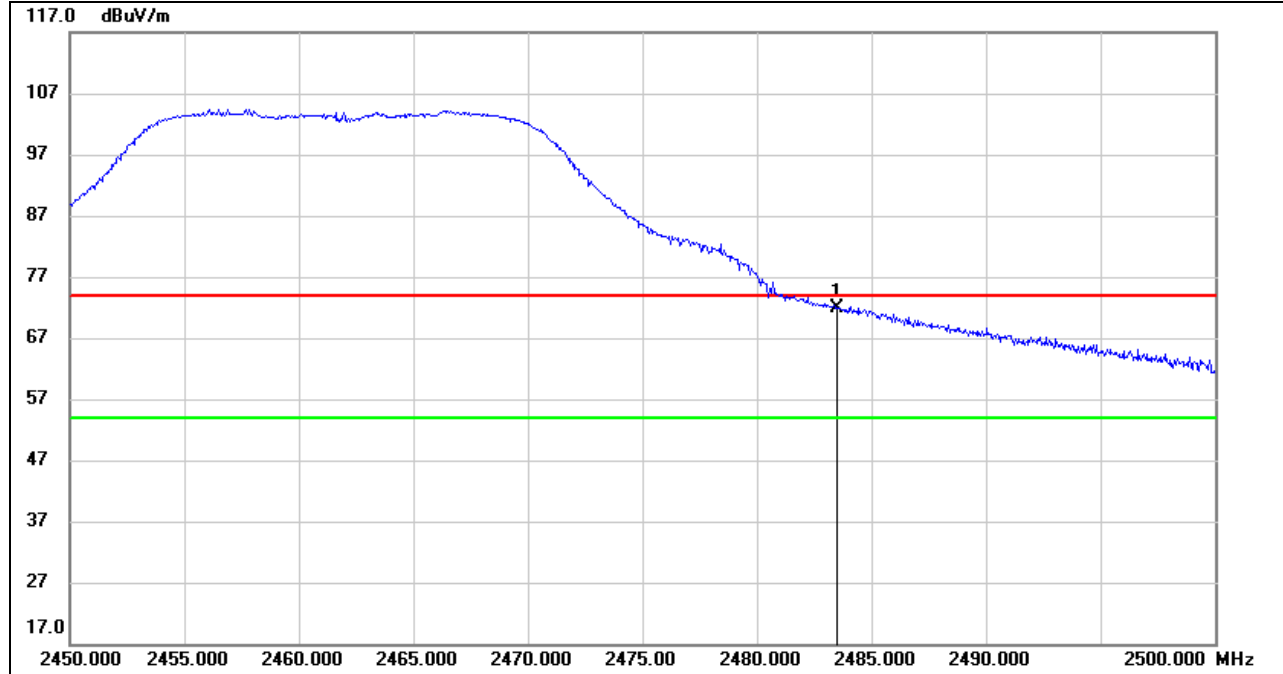
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	17.42	33.35	50.77	54.00	-3.23	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. AVG:  $VBW=1/Ton$ , where:  $Ton$  is the transmitting duration.
  3. For the transmitting duration, please refer to clause 7.1.
  4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



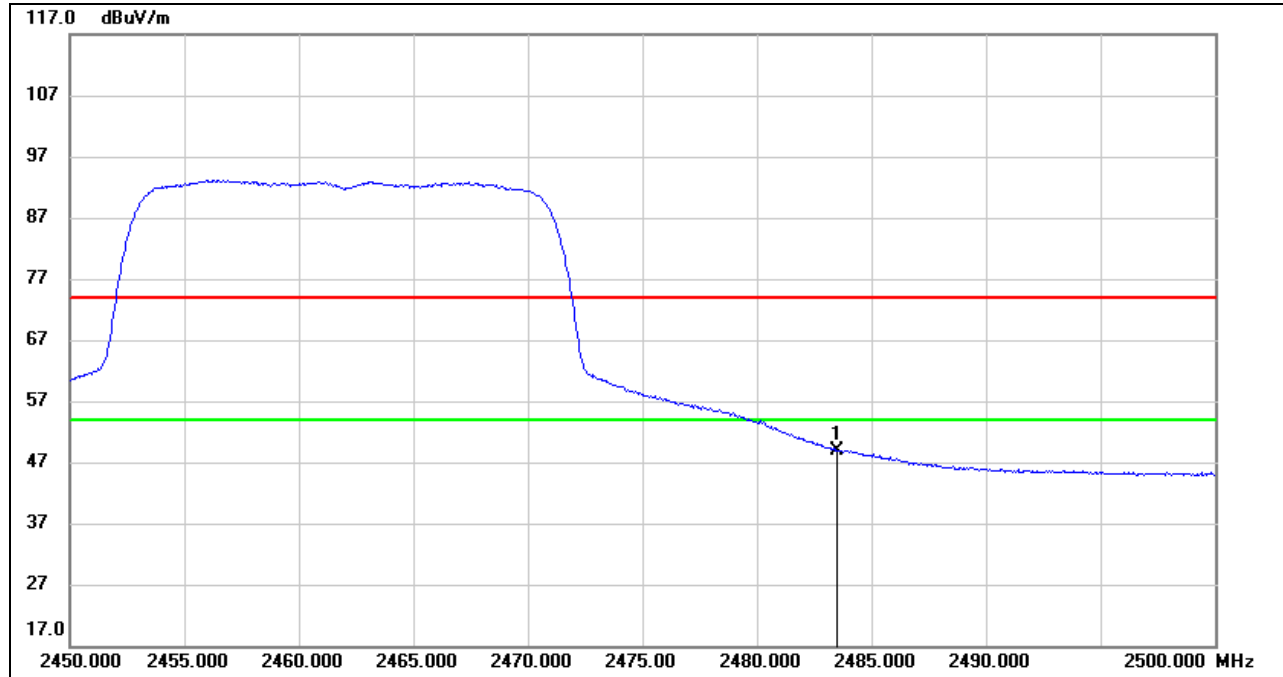
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.06	33.71	71.77	74.00	-2.23	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. Peak: Peak detector.
  3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.26	33.71	48.97	54.00	-5.03	AVG

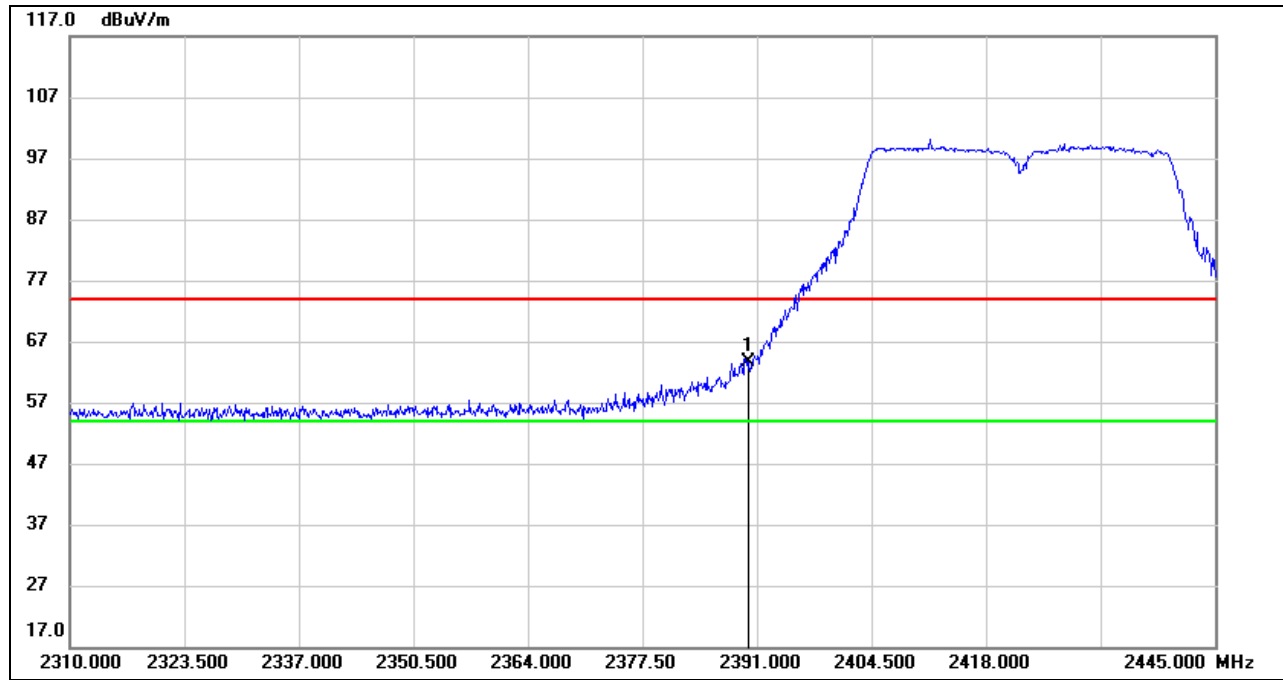
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

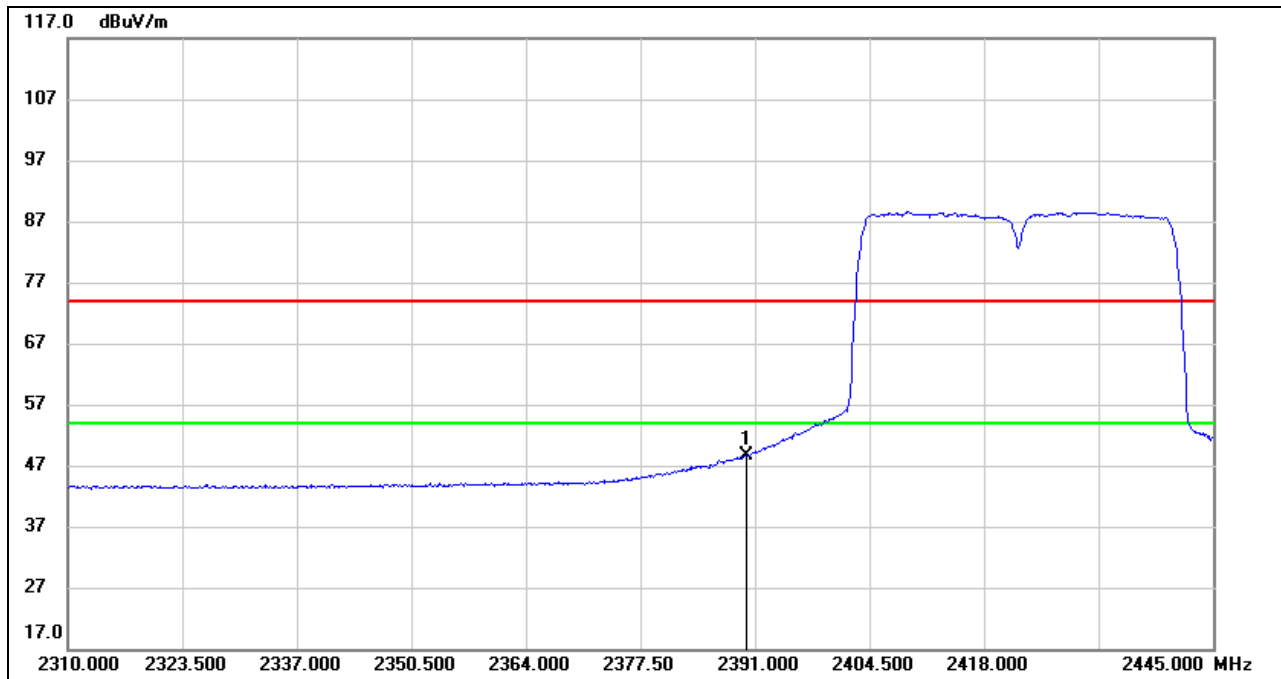


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	30.36	33.35	63.71	74.00	-10.29	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



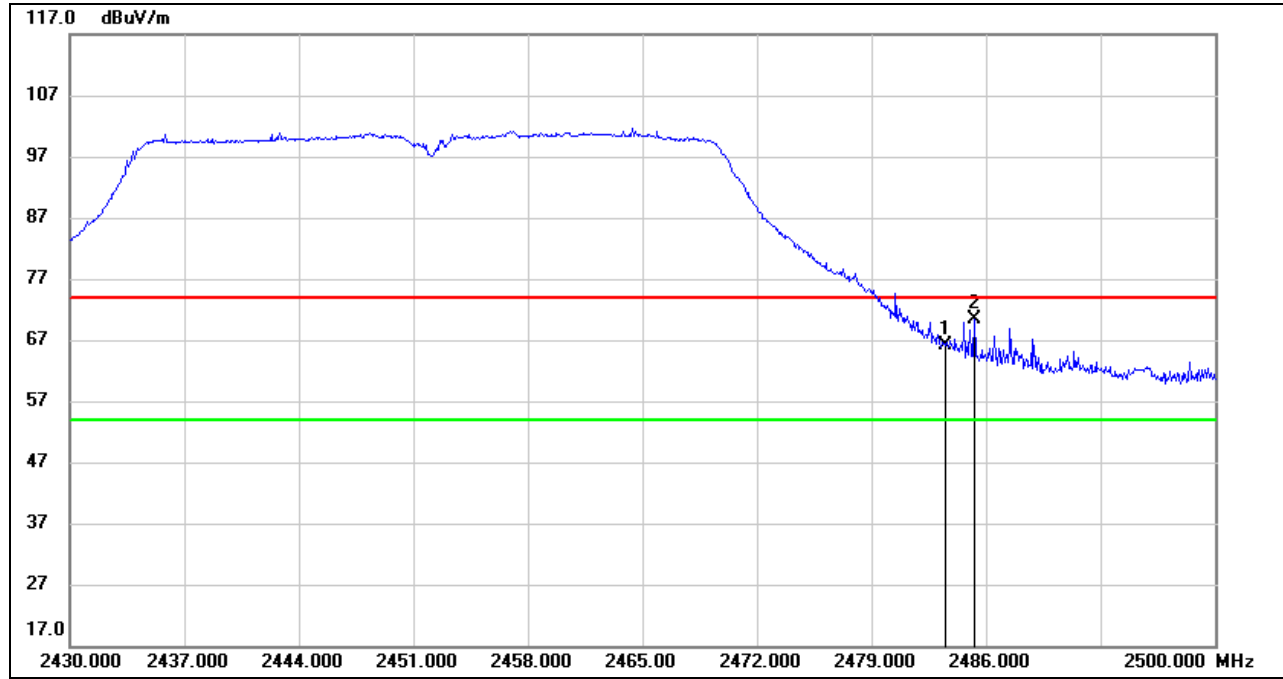
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	15.16	33.35	48.51	54.00	-5.49	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.38	33.71	66.09	74.00	-7.91	peak
2	2485.300	36.76	33.71	70.47	74.00	-3.53	peak

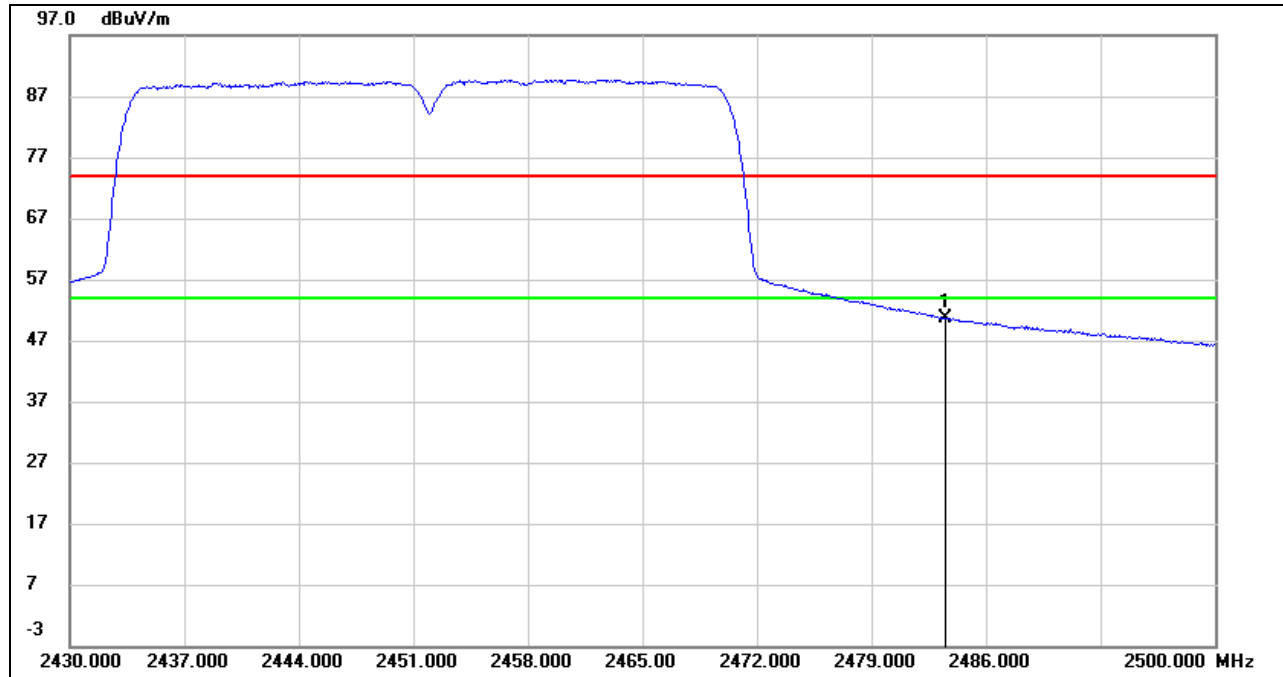
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.94	33.71	50.65	54.00	-3.35	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

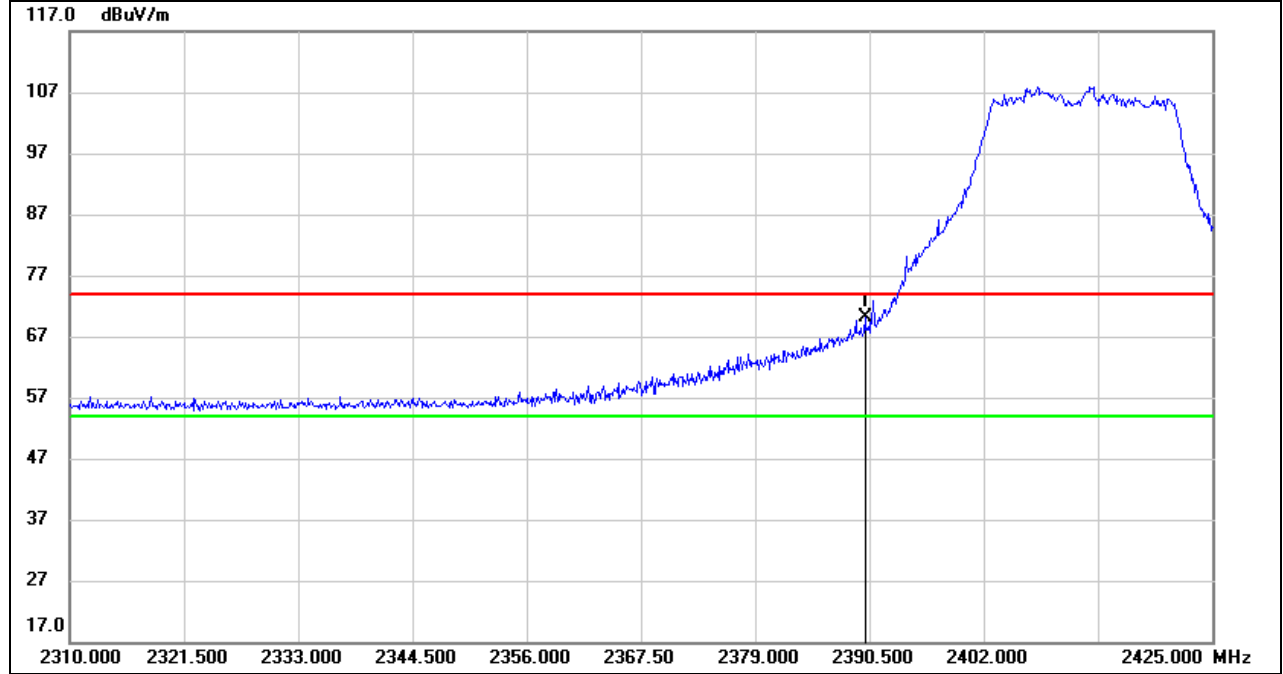
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.



8.1.5. 802.11ax HE20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

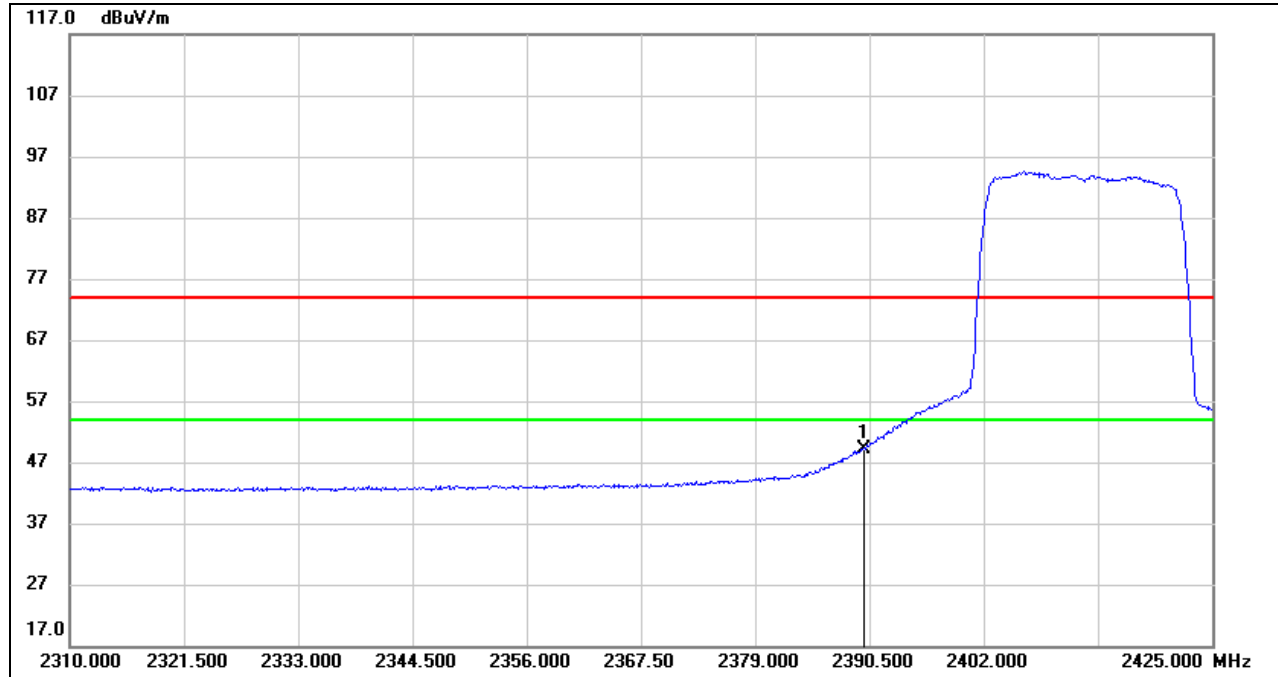


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	37.51	32.66	70.17	74.00	-3.83	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



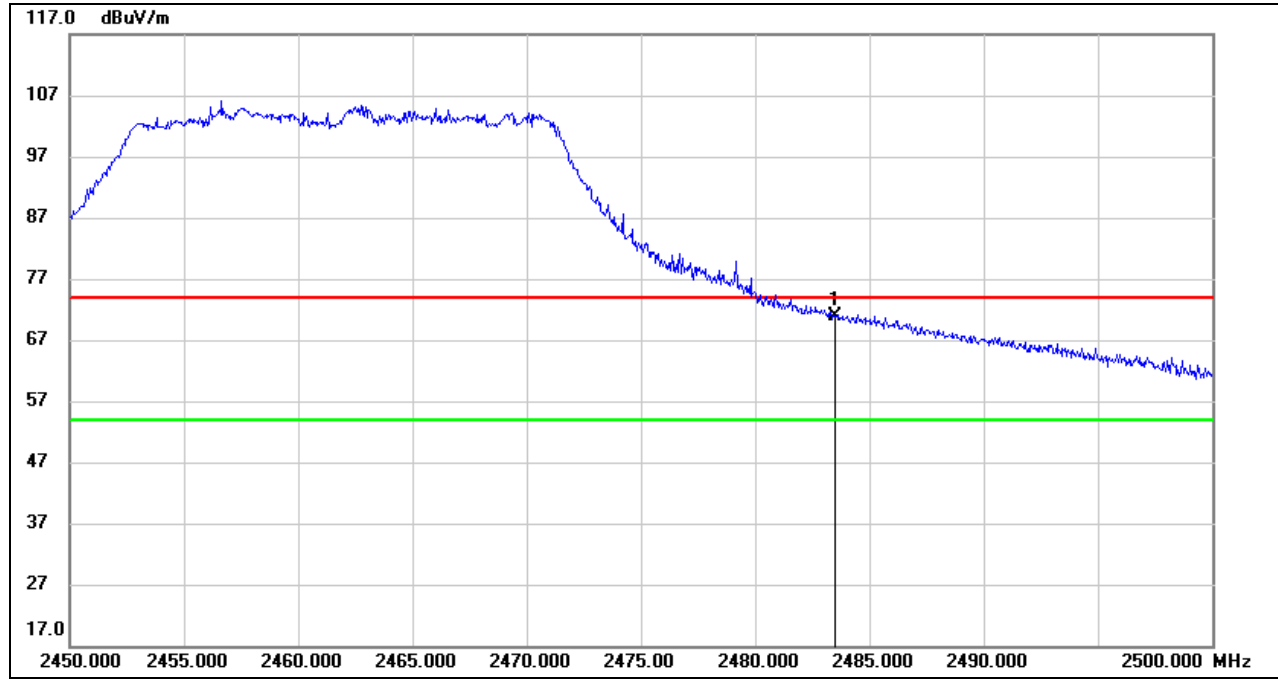
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	16.57	32.66	49.23	54.00	-4.77	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



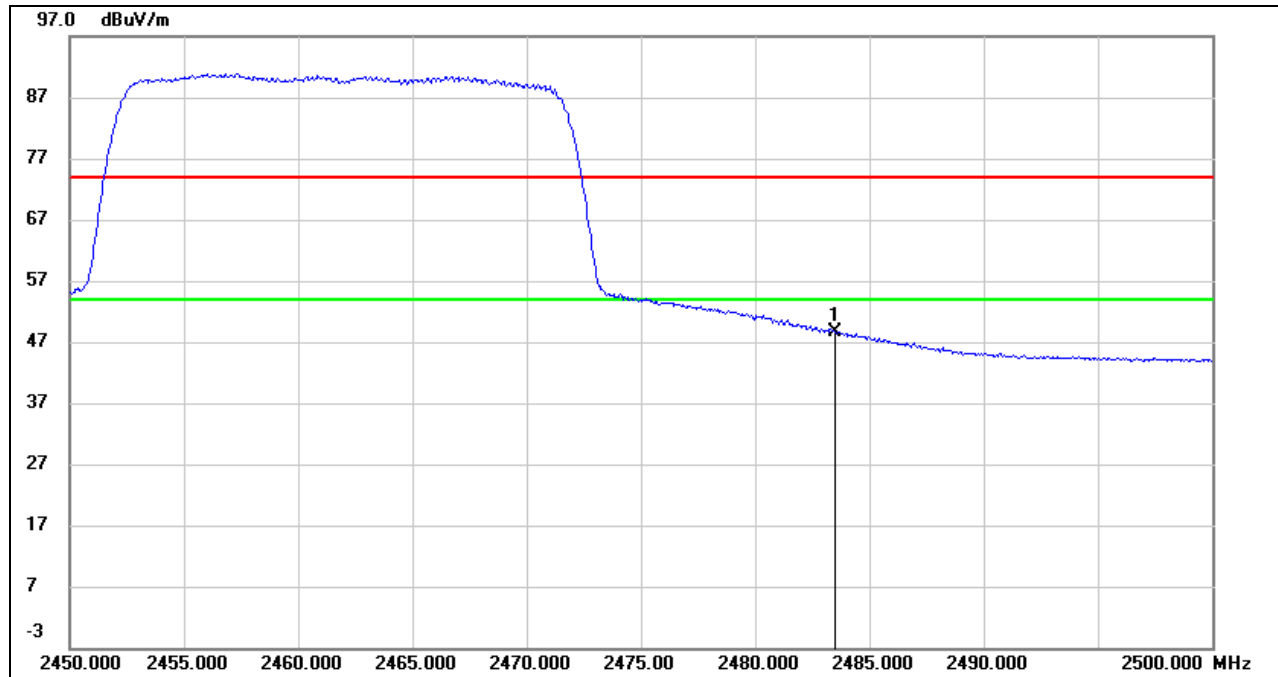
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.84	33.10	70.94	74.00	-3.06	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





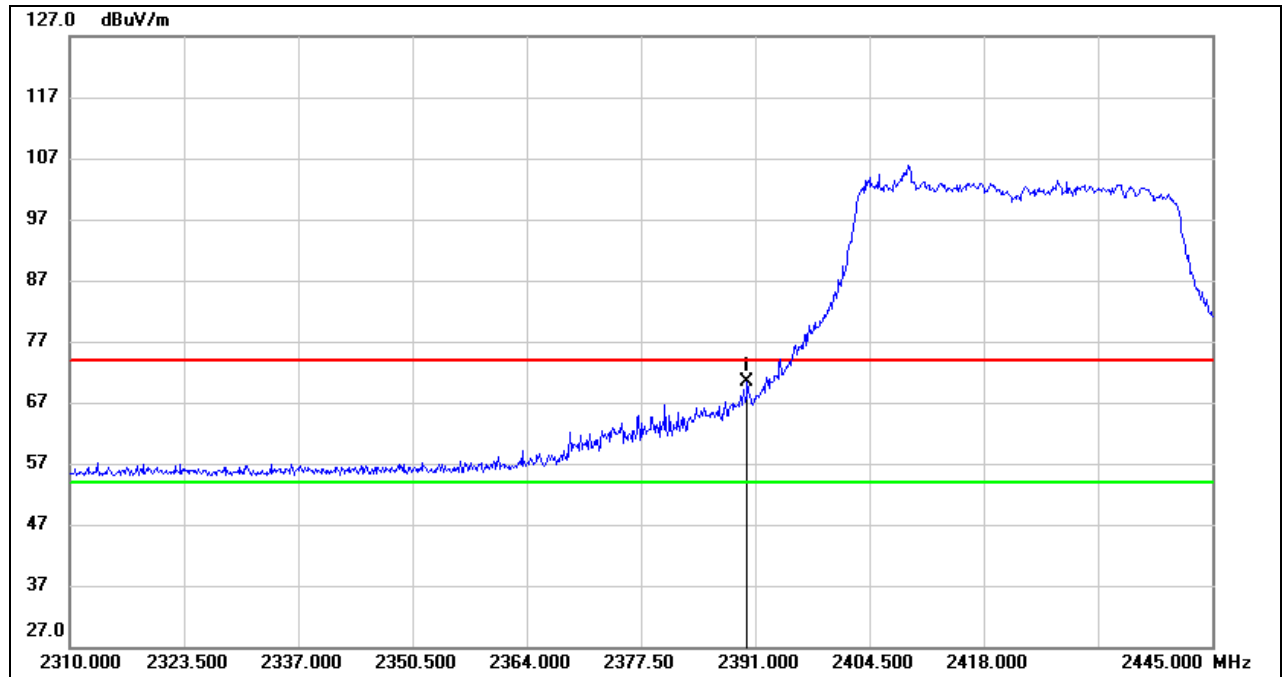
**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.54	33.10	48.64	54.00	-5.36	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

**8.1.6. 802.11ax HE40 MODE**
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**
**PEAK**


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	37.65	32.66	70.31	74.00	-3.69	peak

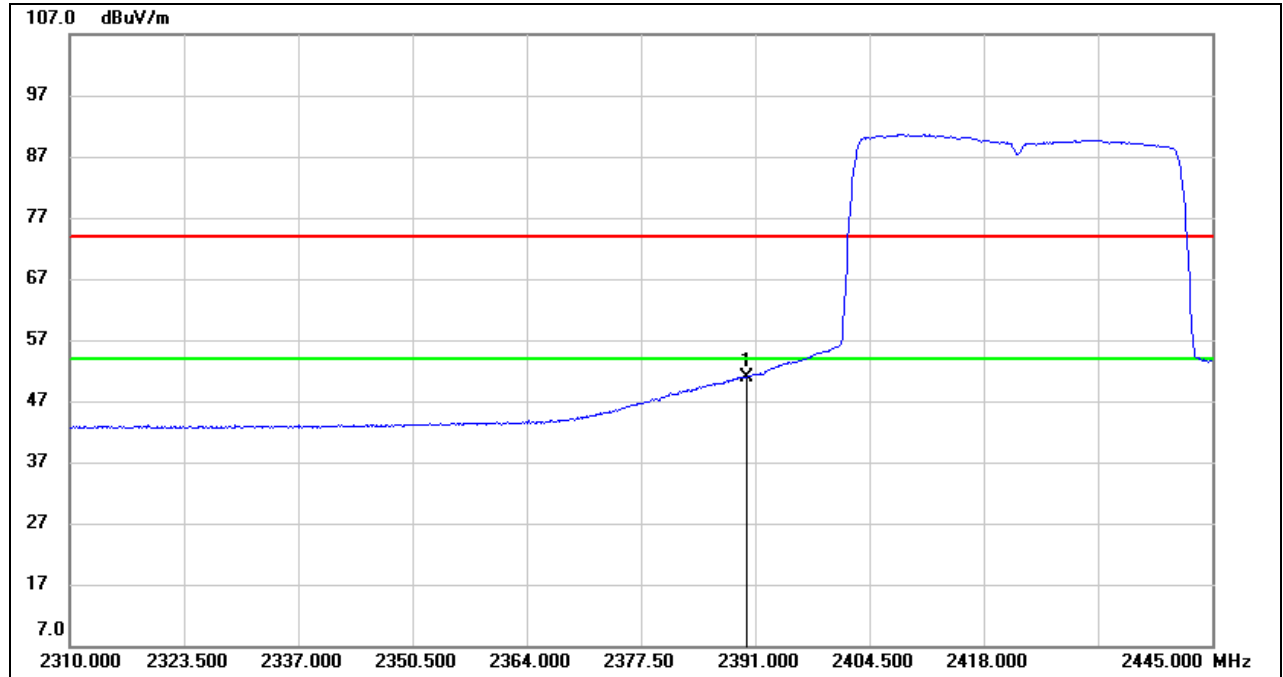
Note: 1. Measurement = Reading Level + Correct Factor.

2. Peak: Peak detector.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



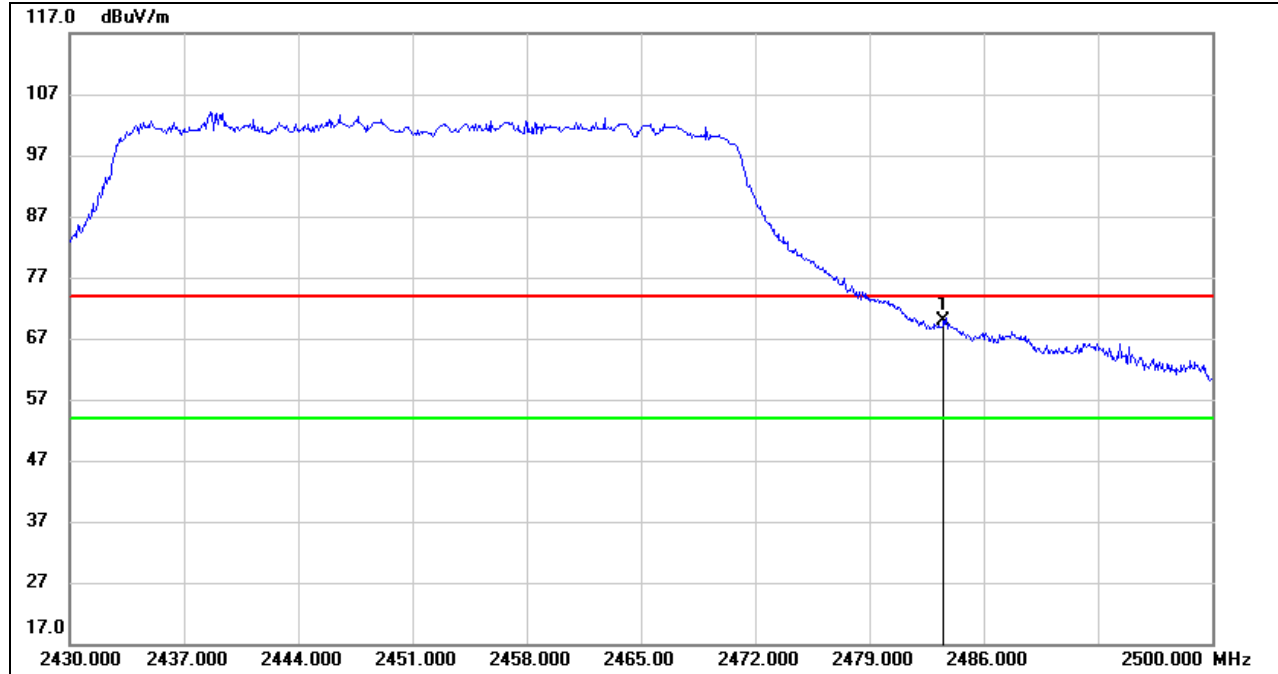
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	18.25	32.66	50.91	54.00	-3.09	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**

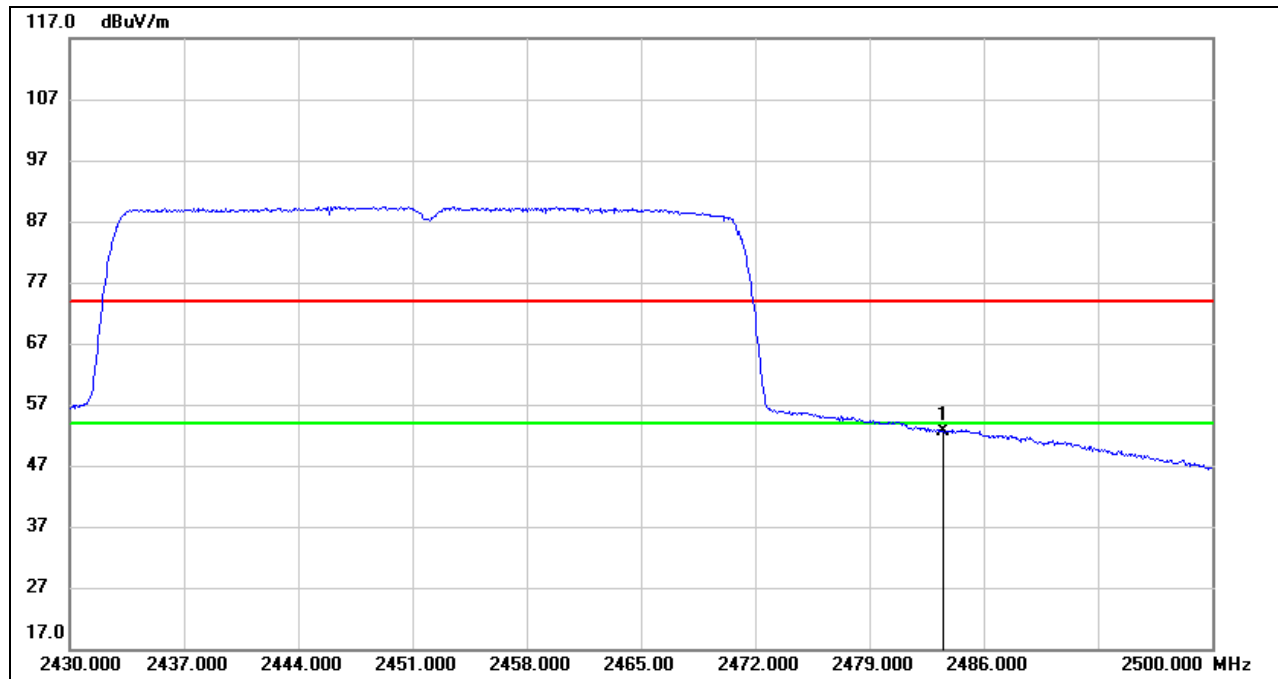


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.72	33.10	69.82	74.00	-4.18	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.  
 3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.45	33.10	52.55	54.00	-1.45	AVG

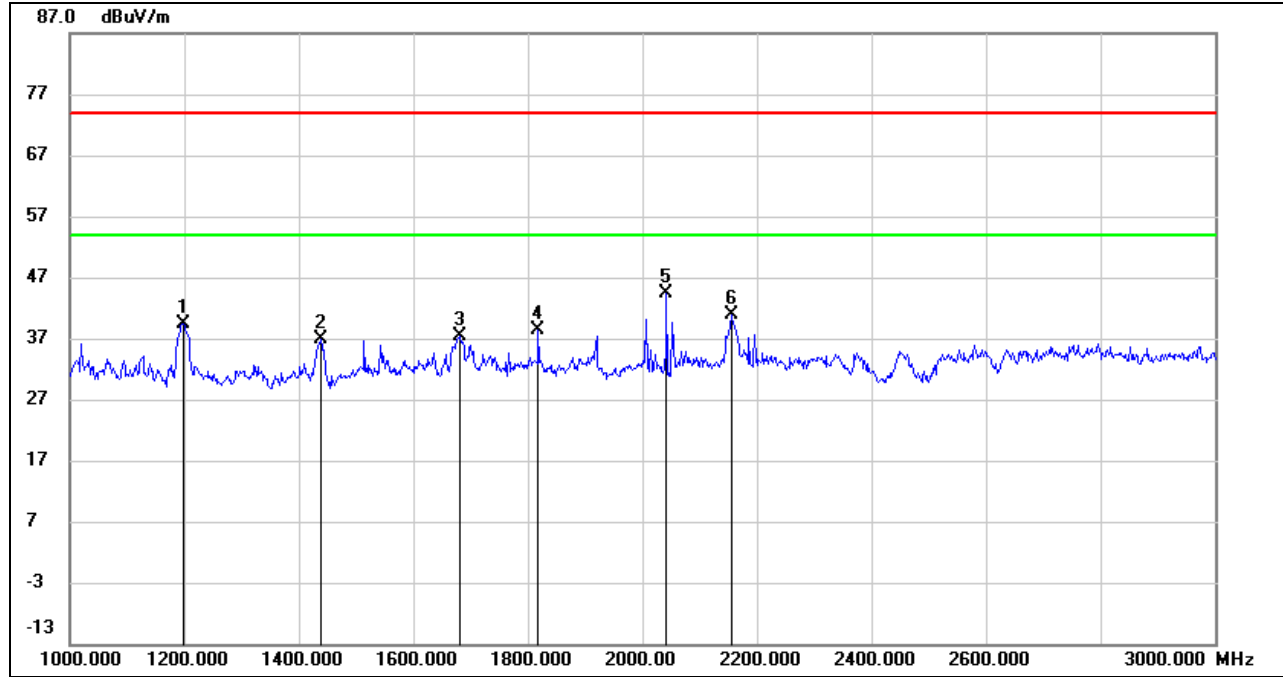
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
 3. For the transmitting duration, please refer to clause 7.1.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

## 8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

### 8.2.1. 802.11n HT20 MODE

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1199.000	53.18	-13.77	39.41	74.00	-34.59	peak
2	1439.500	49.87	-12.92	36.95	74.00	-37.05	peak
3	1681.000	48.82	-11.50	37.32	74.00	-36.68	peak
4	1818.500	49.29	-10.81	38.48	74.00	-35.52	peak
5	2043.250	55.37	-10.91	44.46	74.00	-29.54	peak
6	2156.000	51.04	-10.17	40.87	74.00	-33.13	peak

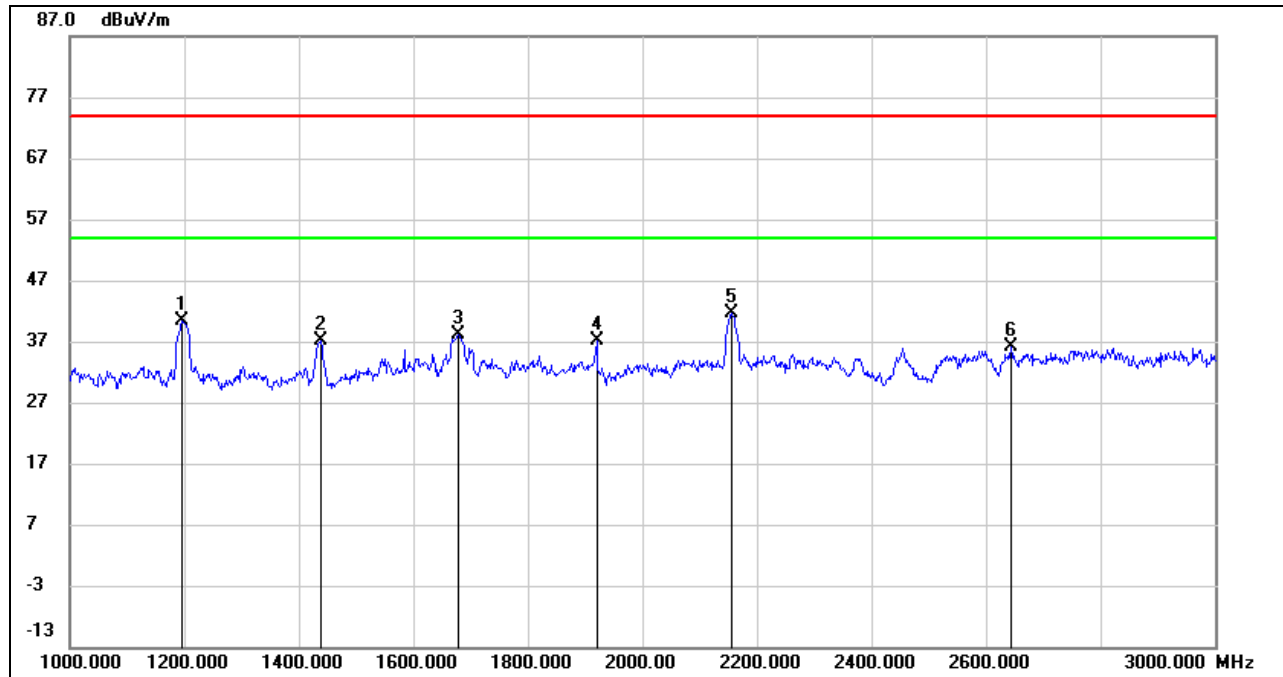
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.000	54.14	-13.79	40.35	74.00	-33.65	peak
2	1438.000	49.99	-12.92	37.07	74.00	-36.93	peak
3	1679.250	49.59	-11.51	38.08	74.00	-35.92	peak
4	1920.500	48.16	-11.02	37.14	74.00	-36.86	peak
5	2157.750	51.86	-10.16	41.70	74.00	-32.30	peak
6	2645.250	44.68	-8.43	36.25	74.00	-37.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

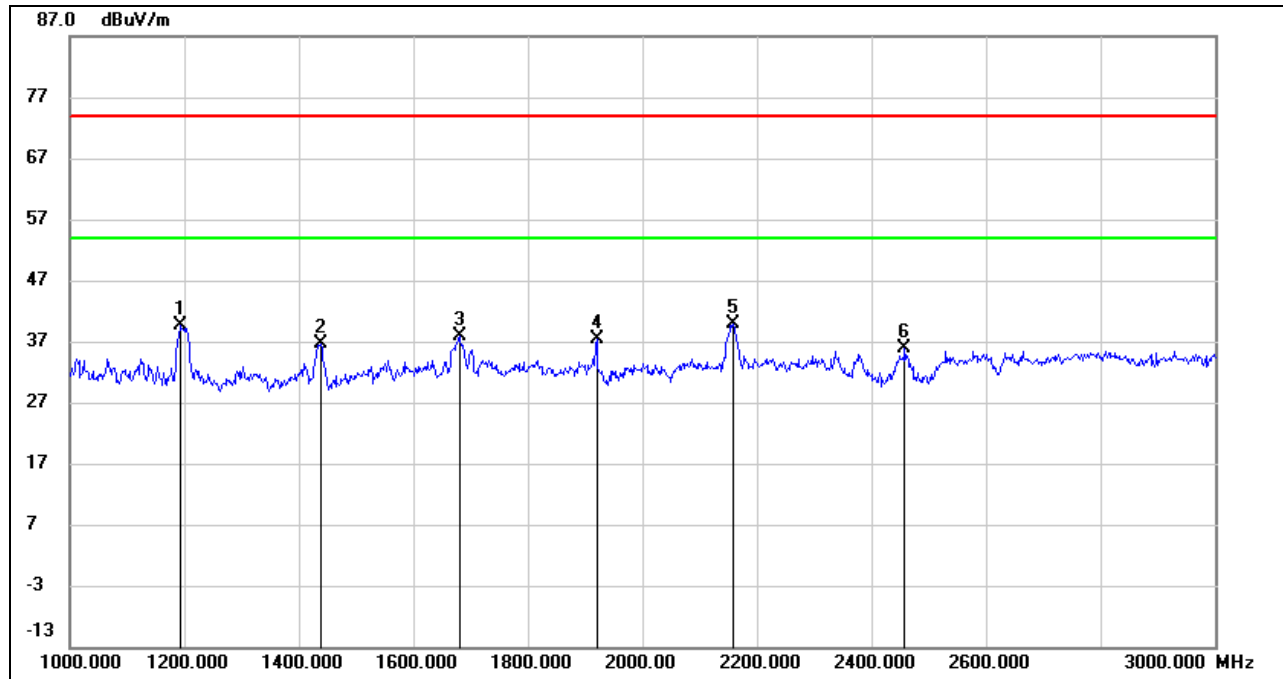
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



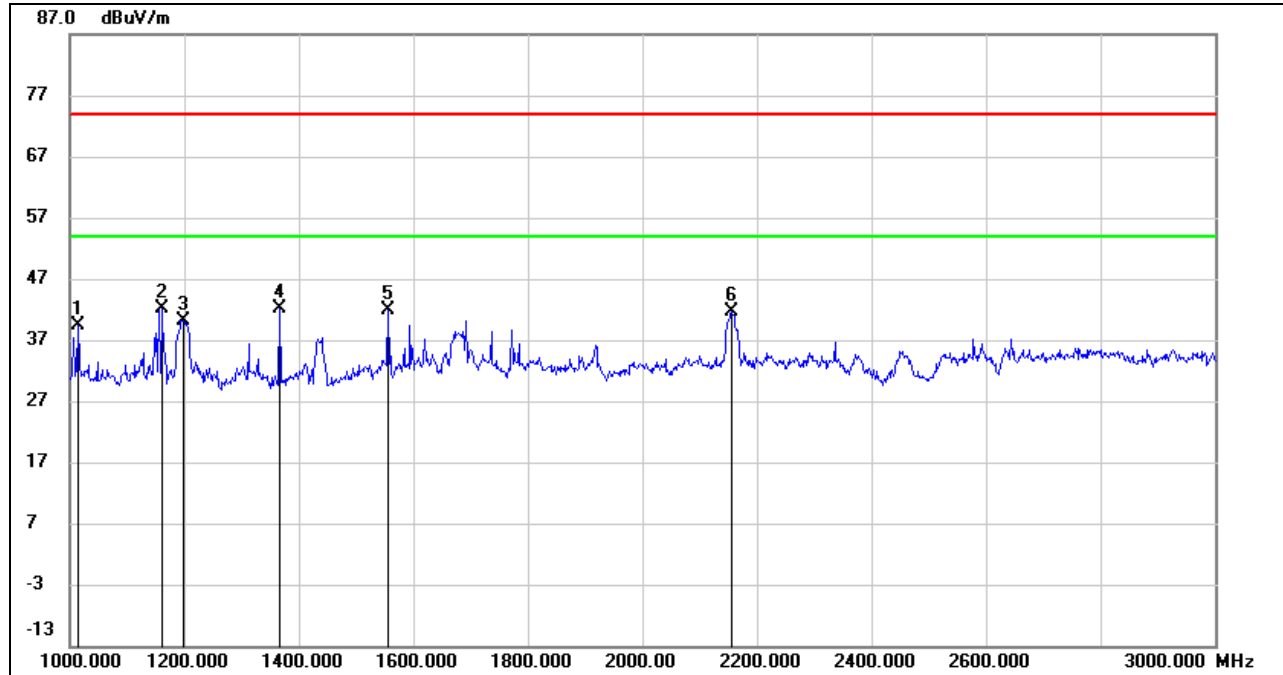
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1195.250	53.34	-13.81	39.53	74.00	-34.47	peak
2	1438.000	49.51	-12.92	36.59	74.00	-37.41	peak
3	1680.250	49.45	-11.50	37.95	74.00	-36.05	peak
4	1920.250	48.44	-11.02	37.42	74.00	-36.58	peak
5	2158.250	50.15	-10.16	39.99	74.00	-34.01	peak
6	2458.500	44.79	-8.93	35.86	74.00	-38.14	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1014.750	54.28	-14.98	39.30	74.00	-34.70	peak
2	1160.250	56.08	-14.03	42.05	74.00	-31.95	peak
3	1199.750	53.88	-13.77	40.11	74.00	-33.89	peak
4	1367.000	55.46	-13.27	42.19	74.00	-31.81	peak
5	1556.750	54.20	-12.23	41.97	74.00	-32.03	peak
6	2156.500	51.81	-10.17	41.64	74.00	-32.36	peak

Note: 1. Measurement = Reading Level + Correct Factor.

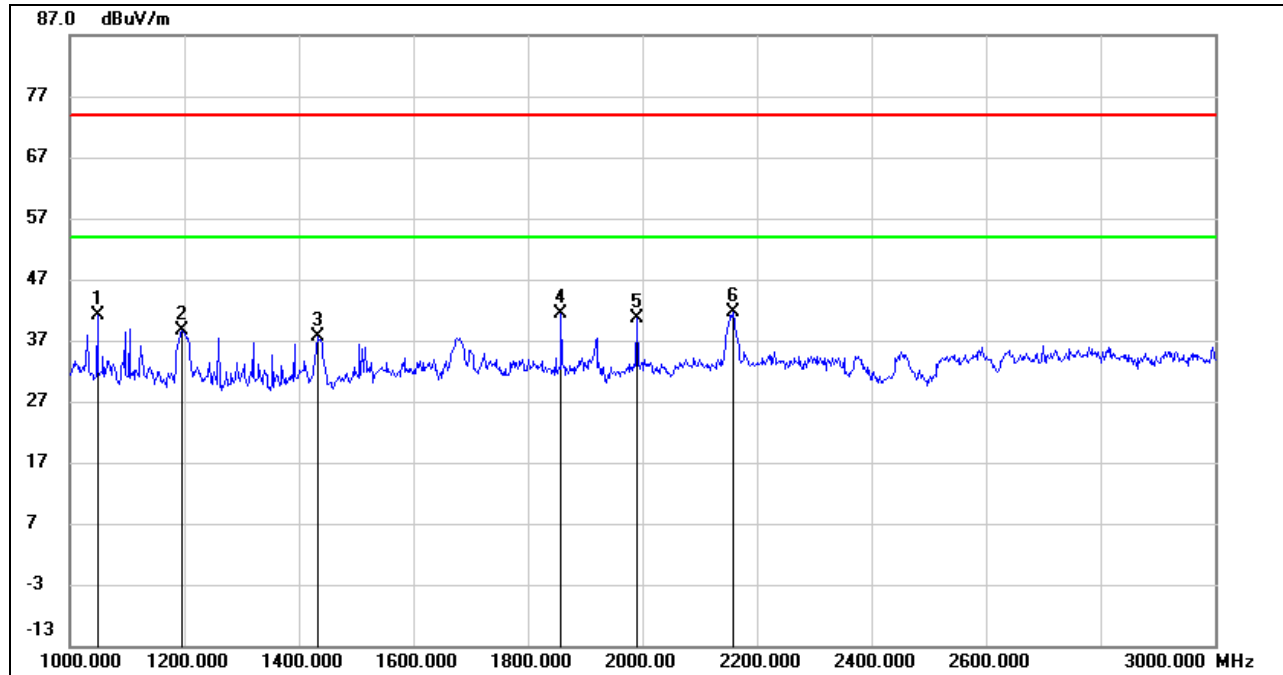
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1049.000	55.80	-14.76	41.04	74.00	-32.96	peak
2	1197.500	52.35	-13.79	38.56	74.00	-35.44	peak
3	1433.250	50.50	-12.96	37.54	74.00	-36.46	peak
4	1859.750	52.20	-10.90	41.30	74.00	-32.70	peak
5	1991.500	51.74	-11.17	40.57	74.00	-33.43	peak
6	2158.250	51.84	-10.16	41.68	74.00	-32.32	peak

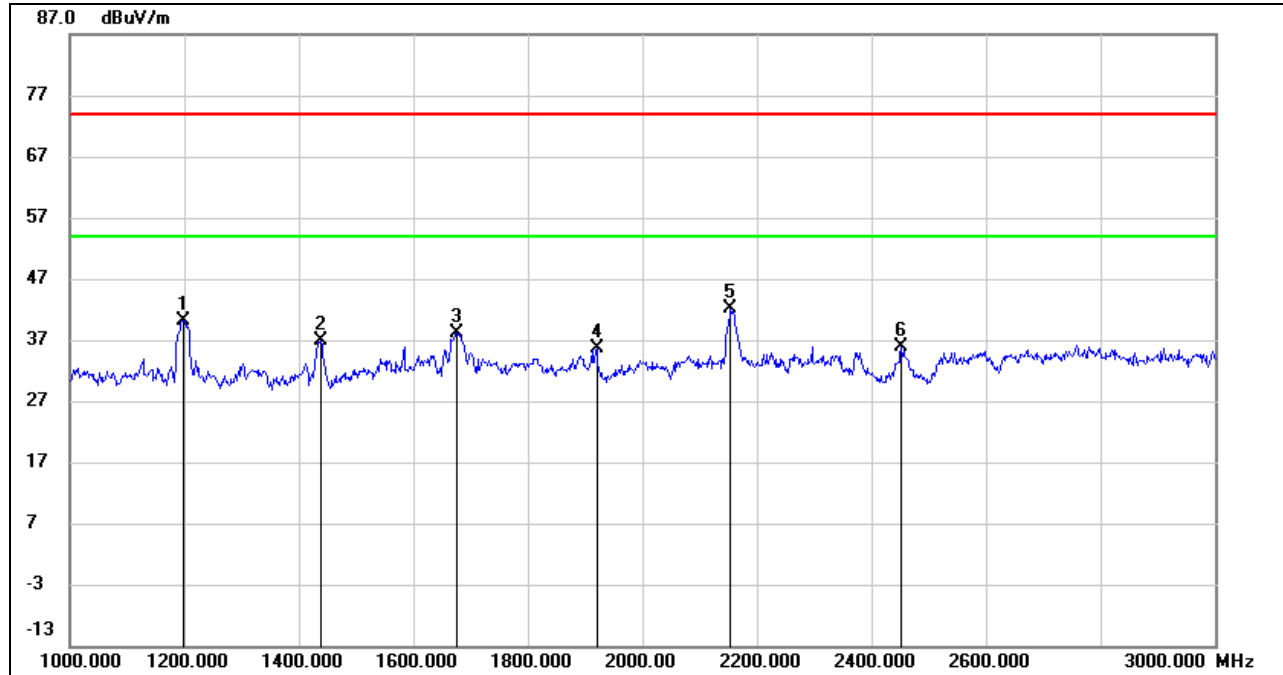
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1198.250	54.03	-13.79	40.24	74.00	-33.76	peak
2	1439.750	49.86	-12.90	36.96	74.00	-37.04	peak
3	1677.500	49.71	-11.51	38.20	74.00	-35.80	peak
4	1920.000	46.77	-11.02	35.75	74.00	-38.25	peak
5	2154.500	52.33	-10.18	42.15	74.00	-31.85	peak
6	2452.500	44.78	-8.94	35.84	74.00	-38.16	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

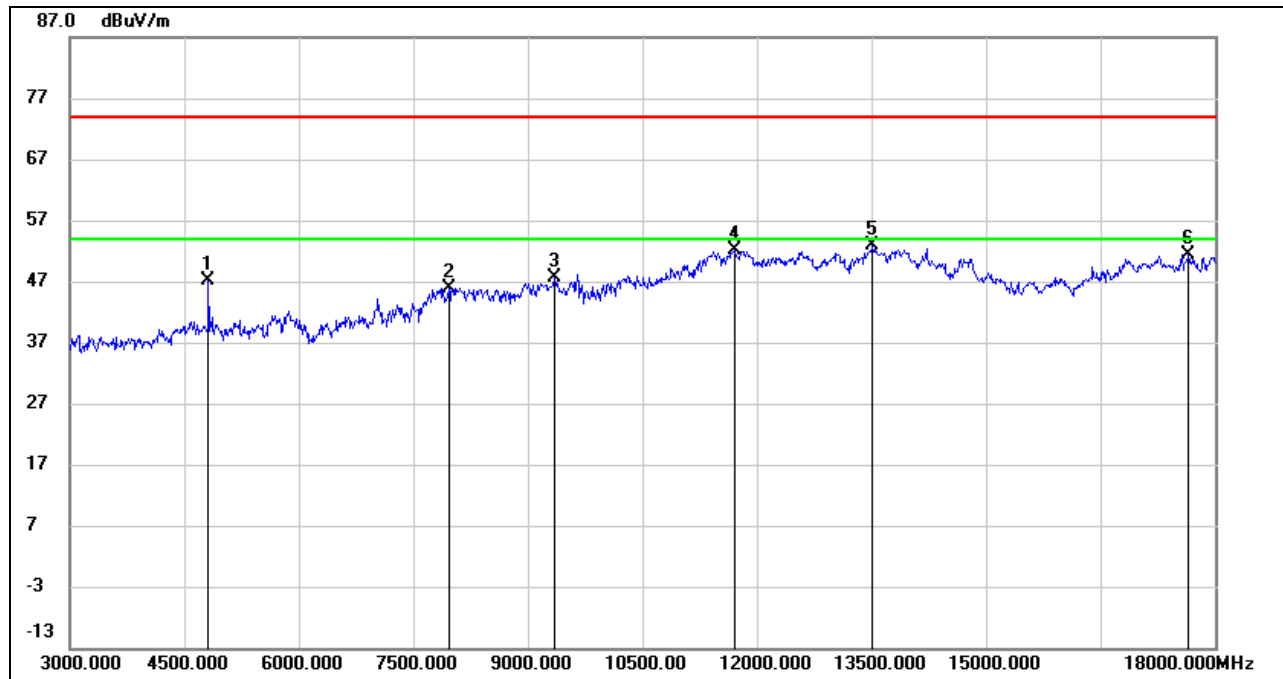
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: All modes and channels have been tested, only the worst data was recorded in the report.

### 8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

#### 8.3.1. 802.11b MODE

##### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4822.500	46.97	0.11	47.08	74.00	-26.92	peak
2	7968.750	37.86	8.10	45.96	74.00	-28.04	peak
3	9352.500	37.11	10.48	47.59	74.00	-26.41	peak
4	11709.375	35.07	17.09	52.16	74.00	-21.84	peak
5	13528.125	33.76	19.17	52.93	74.00	-21.07	peak
6	17668.125	28.38	23.01	51.39	74.00	-22.61	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

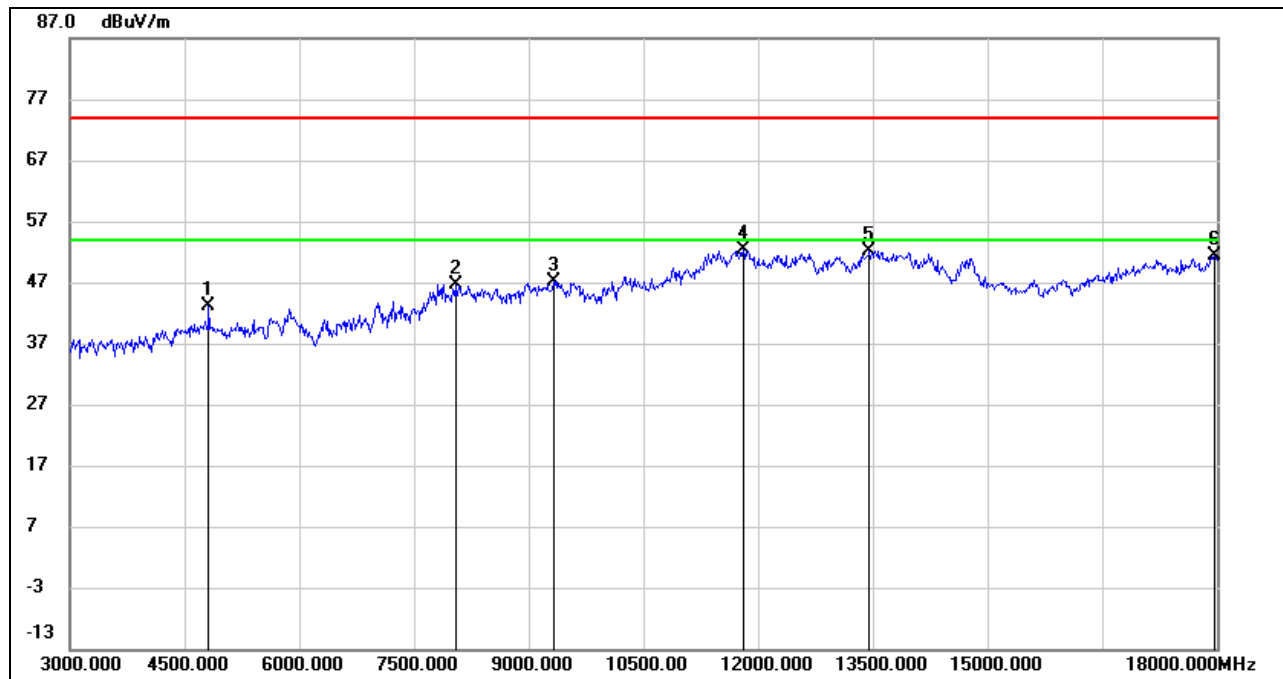
3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

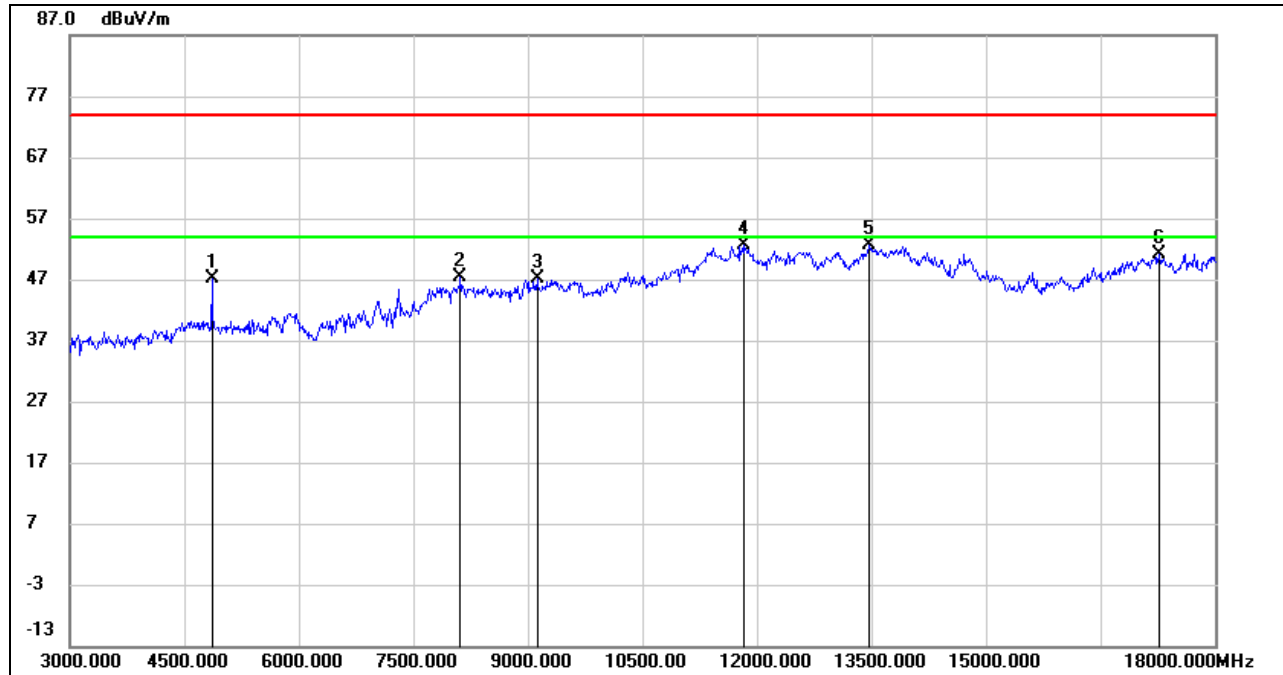
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

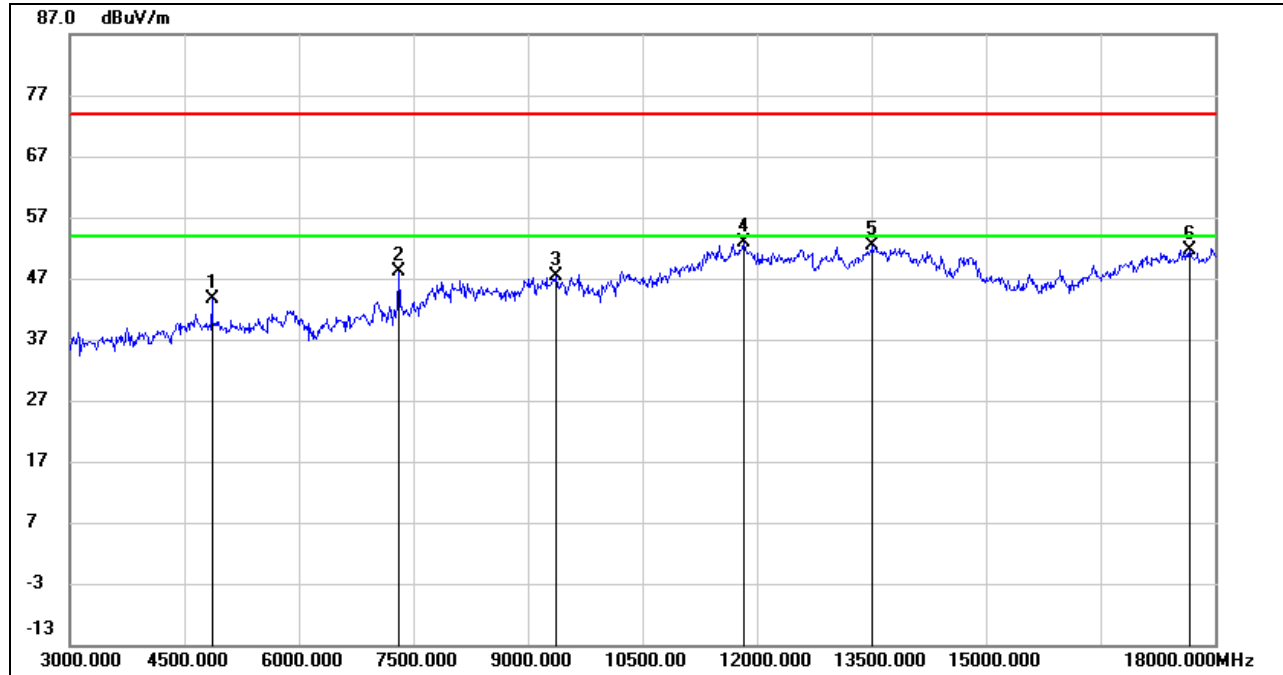
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4822.500	43.14	0.11	43.25	74.00	-30.75	peak
2	8047.500	37.86	8.76	46.62	74.00	-27.38	peak
3	9343.125	36.71	10.43	47.14	74.00	-26.86	peak
4	11818.125	35.35	17.02	52.37	74.00	-21.63	peak
5	13455.000	33.01	19.09	52.10	74.00	-21.90	peak
6	17977.500	26.50	24.83	51.33	74.00	-22.67	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.125	47.02	0.02	47.04	74.00	-26.96	peak
2	8115.000	37.94	9.50	47.44	74.00	-26.56	peak
3	9125.625	37.44	9.68	47.12	74.00	-26.88	peak
4	11833.125	35.44	17.07	52.51	74.00	-21.49	peak
5	13473.750	33.42	19.14	52.56	74.00	-21.44	peak
6	17278.125	29.85	21.33	51.18	74.00	-22.82	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.125	43.71	0.02	43.73	74.00	-30.27	peak
2	7308.750	41.80	6.36	48.16	74.00	-25.84	peak
3	9384.375	36.70	10.68	47.38	74.00	-26.62	peak
4	11829.375	35.78	17.05	52.83	74.00	-21.17	peak
5	13528.125	33.16	19.17	52.33	74.00	-21.67	peak
6	17670.000	28.64	23.02	51.66	74.00	-22.34	peak

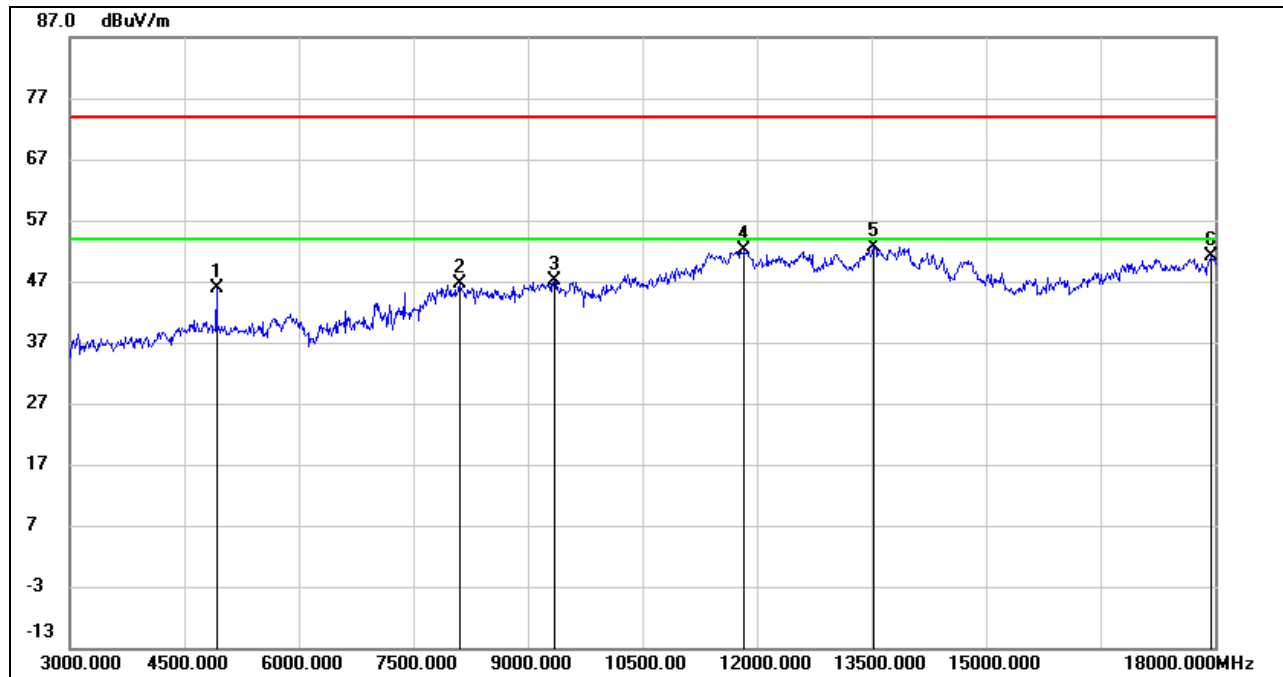
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.750	45.69	0.15	45.84	74.00	-28.16	peak
2	8109.375	36.98	9.53	46.51	74.00	-27.49	peak
3	9354.375	36.75	10.49	47.24	74.00	-26.76	peak
4	11836.875	35.05	17.08	52.13	74.00	-21.87	peak
5	13531.875	33.53	19.17	52.70	74.00	-21.30	peak
6	17966.250	26.43	24.75	51.18	74.00	-22.82	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

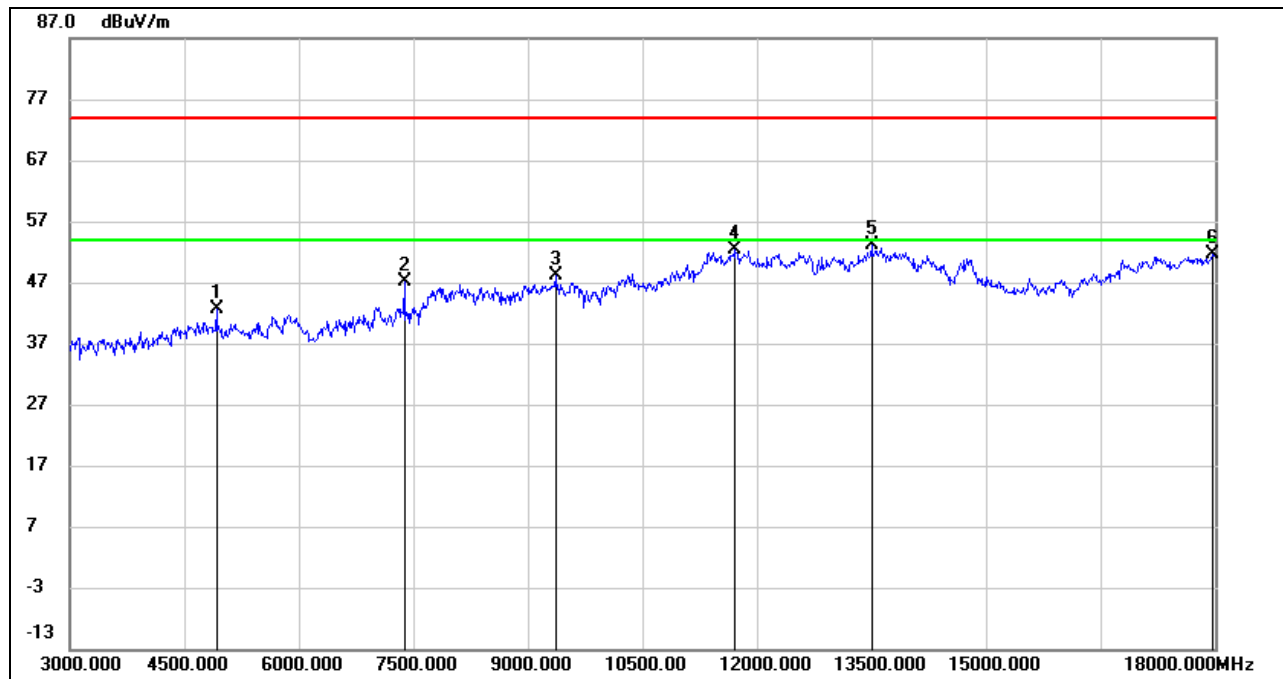
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.750	42.59	0.15	42.74	74.00	-31.26	peak
2	7383.750	40.09	7.06	47.15	74.00	-26.85	peak
3	9369.375	37.58	10.59	48.17	74.00	-25.83	peak
4	11718.750	35.31	17.08	52.39	74.00	-21.61	peak
5	13501.875	33.79	19.22	53.01	74.00	-20.99	peak
6	17981.250	26.78	24.85	51.63	74.00	-22.37	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

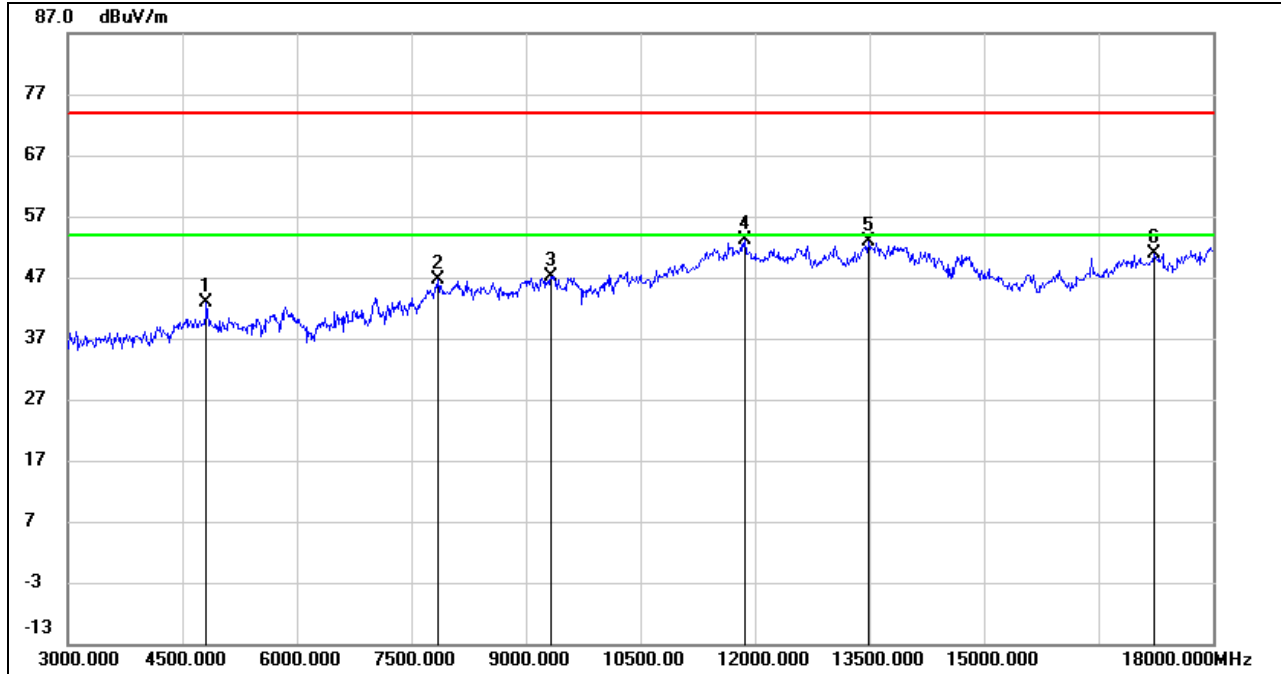
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: Both the two antennas had been tested, but only the worst data was recorded in the report.



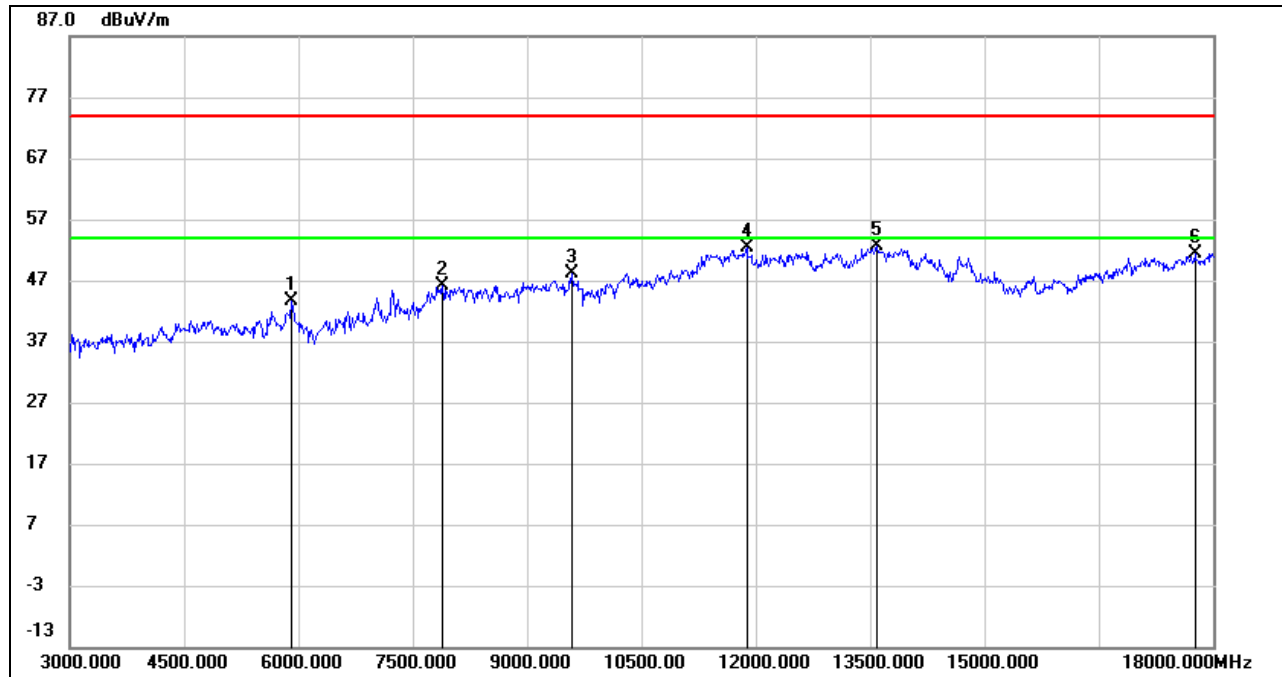
### 8.3.2. 802.11g MODE

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



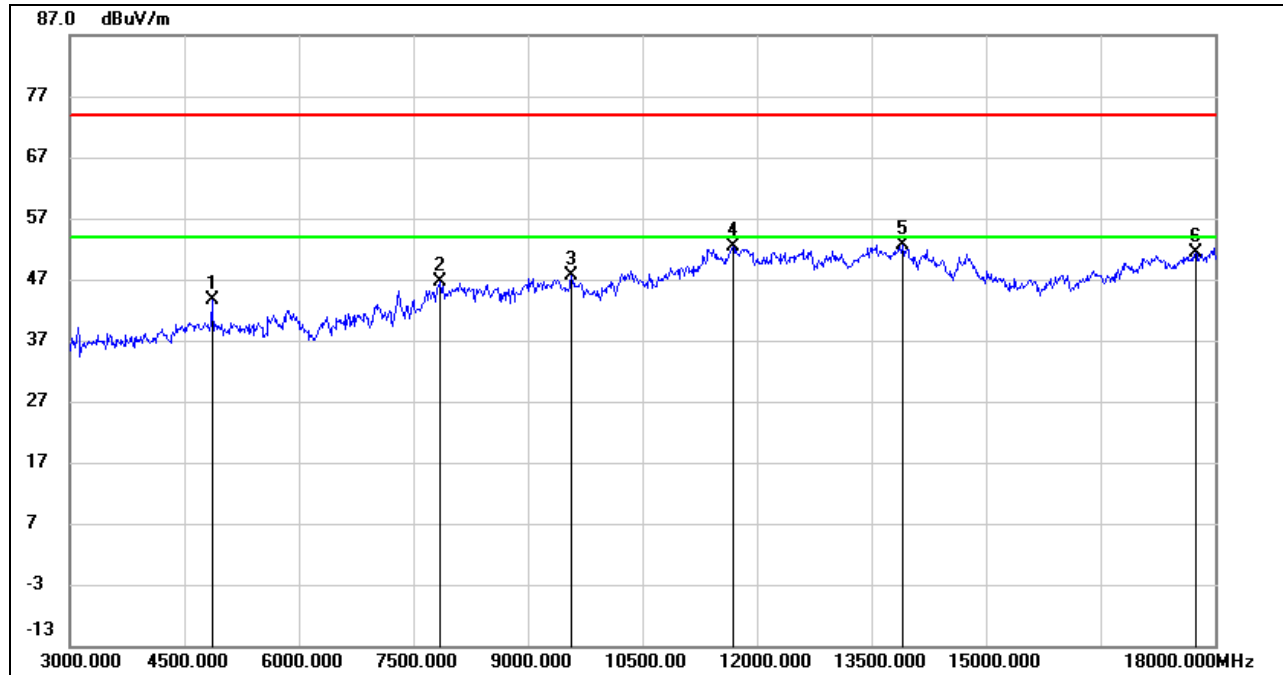
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4822.500	42.82	0.11	42.93	74.00	-31.07	peak
2	7848.750	38.08	8.48	46.56	74.00	-27.44	peak
3	9330.000	36.84	10.34	47.18	74.00	-26.82	peak
4	11865.000	35.97	17.14	53.11	74.00	-20.89	peak
5	13498.125	33.67	19.22	52.89	74.00	-21.11	peak
6	17236.875	29.81	20.99	50.80	74.00	-23.20	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 5. For the transmitting duration, please refer to clause 7.1.  
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5923.125	40.41	3.31	43.72	74.00	-30.28	peak
2	7899.375	37.86	8.24	46.10	74.00	-27.90	peak
3	9598.125	36.96	11.06	48.02	74.00	-25.98	peak
4	11883.750	35.23	17.20	52.43	74.00	-21.57	peak
5	13595.625	33.60	19.04	52.64	74.00	-21.36	peak
6	17765.625	27.46	23.89	51.35	74.00	-22.65	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.125	43.65	0.02	43.67	74.00	-30.33	peak
2	7846.875	38.22	8.49	46.71	74.00	-27.29	peak
3	9570.000	36.83	10.88	47.71	74.00	-26.29	peak
4	11688.750	35.31	17.04	52.35	74.00	-21.65	peak
5	13916.250	33.30	19.30	52.60	74.00	-21.40	peak
6	17746.875	27.52	23.74	51.26	74.00	-22.74	peak

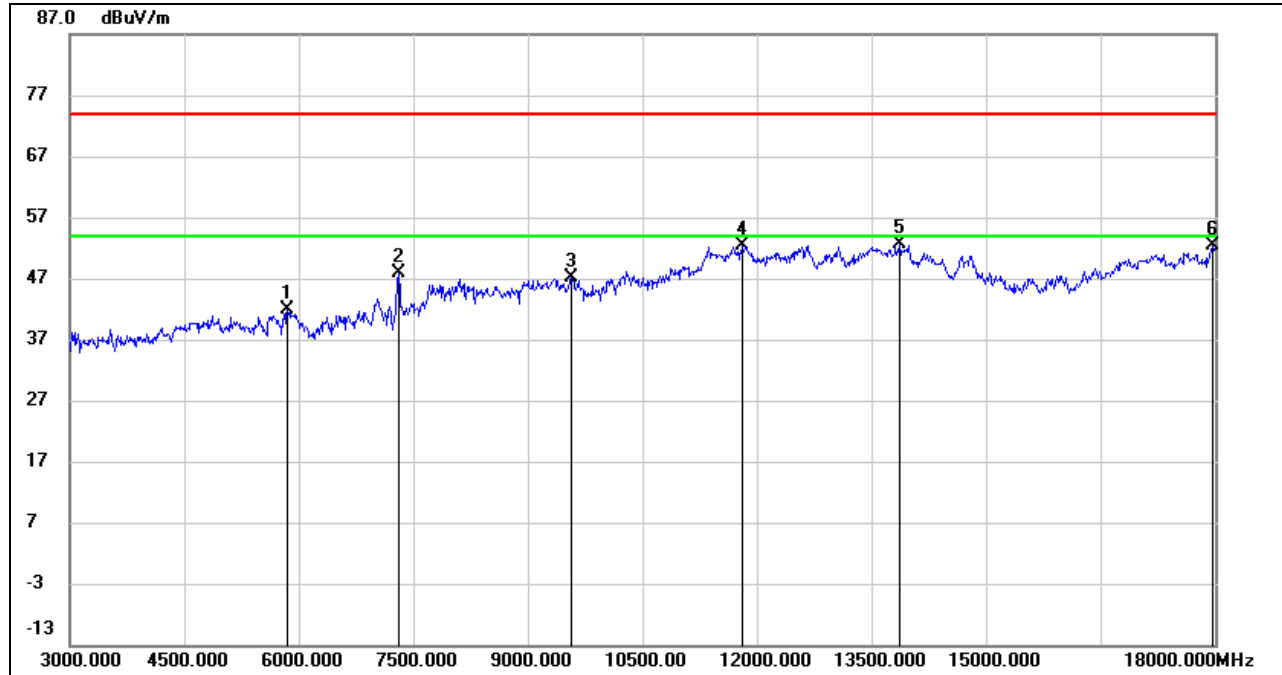
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5857.500	38.77	3.02	41.79	74.00	-32.21	peak
2	7308.750	41.49	6.36	47.85	74.00	-26.15	peak
3	9571.875	36.21	10.88	47.09	74.00	-26.91	peak
4	11812.500	35.39	17.01	52.40	74.00	-21.60	peak
5	13880.625	33.22	19.32	52.54	74.00	-21.46	peak
6	17977.500	27.50	24.83	52.33	74.00	-21.67	peak

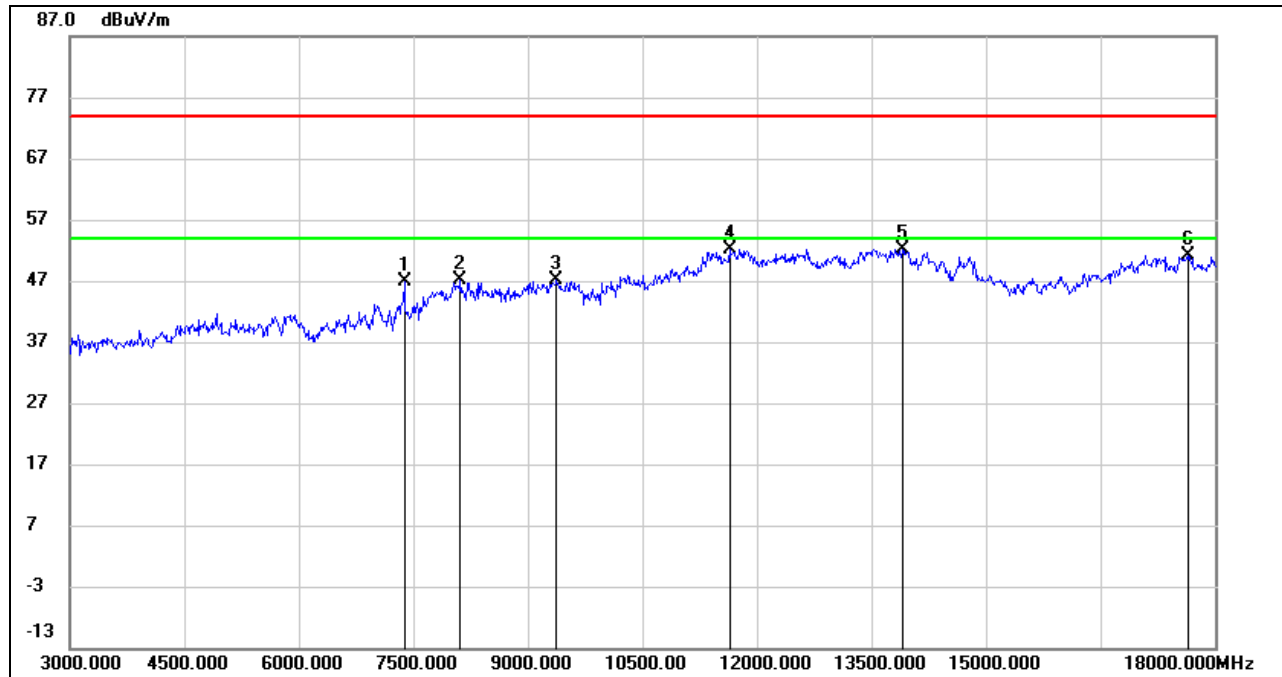
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7381.875	39.80	7.05	46.85	74.00	-27.15	peak
2	8115.000	37.63	9.50	47.13	74.00	-26.87	peak
3	9378.750	36.46	10.66	47.12	74.00	-26.88	peak
4	11645.625	35.42	16.78	52.20	74.00	-21.80	peak
5	13918.125	32.92	19.30	52.22	74.00	-21.78	peak
6	17653.125	28.35	22.85	51.20	74.00	-22.80	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

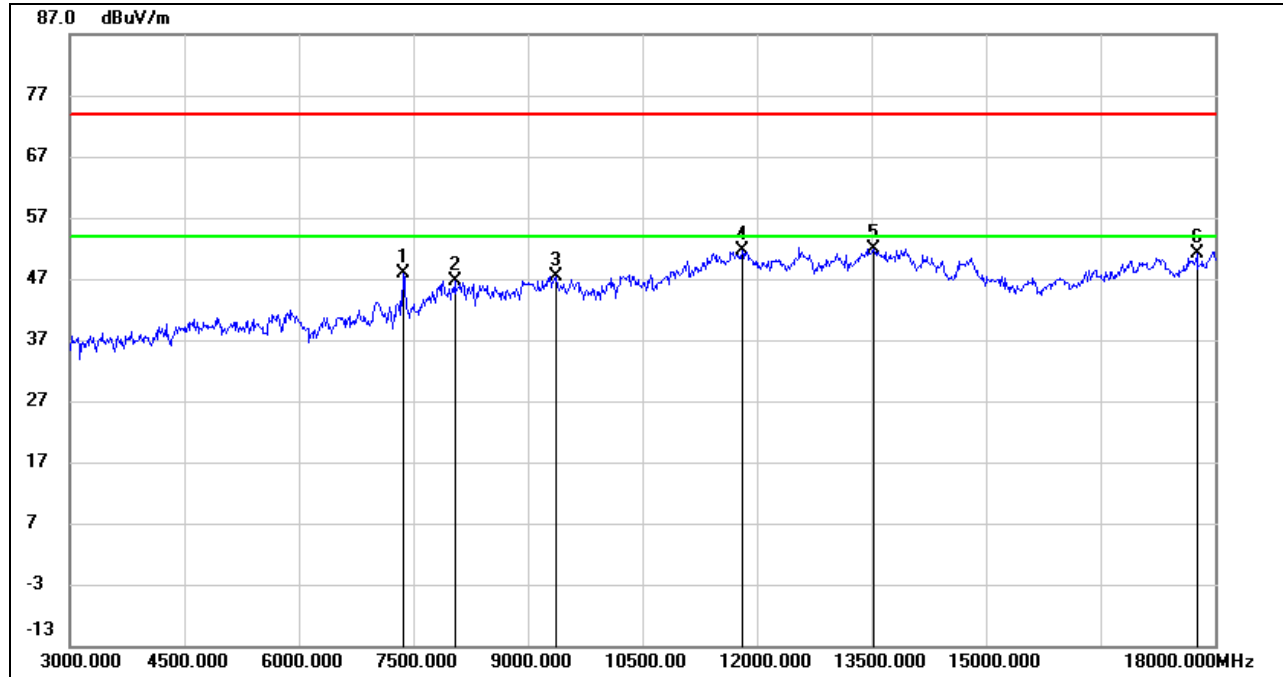
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**



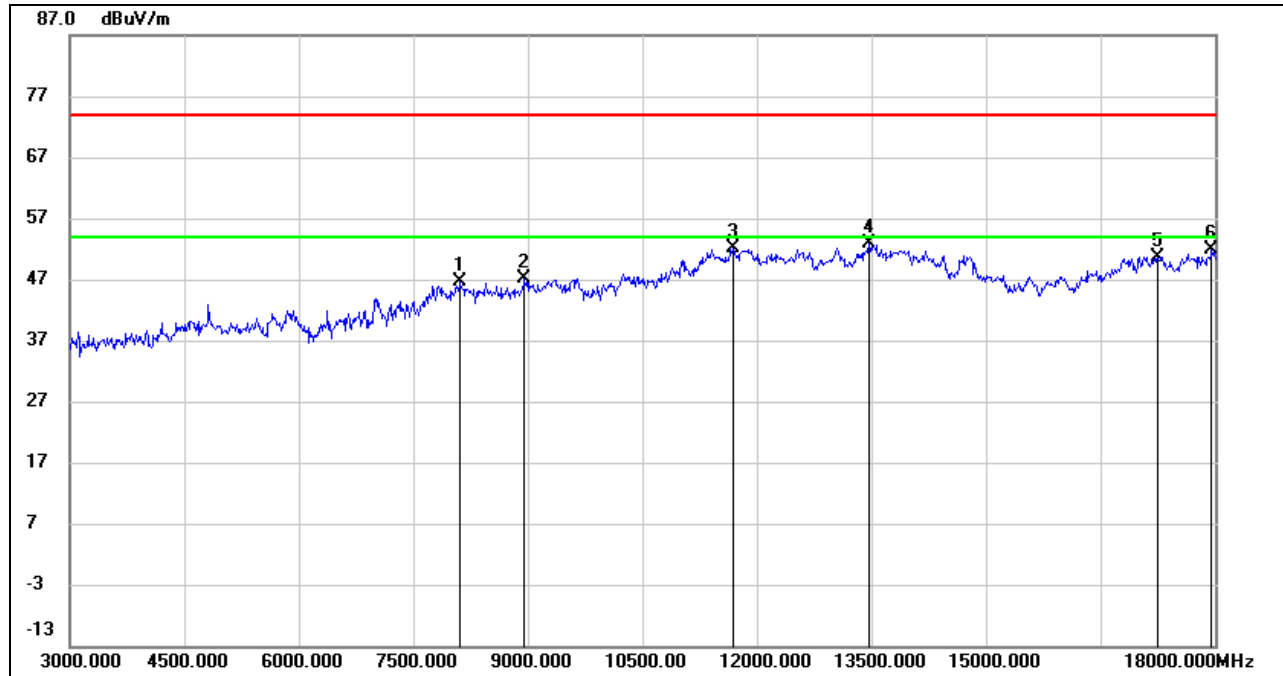
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7378.125	40.81	7.00	47.81	74.00	-26.19	peak
2	8043.750	37.89	8.70	46.59	74.00	-27.41	peak
3	9367.500	36.75	10.58	47.33	74.00	-26.67	peak
4	11812.500	34.50	17.01	51.51	74.00	-22.49	peak
5	13533.750	32.80	19.16	51.96	74.00	-22.04	peak
6	17771.250	27.07	23.95	51.02	74.00	-22.98	peak

- Note:
1. Peak Result = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. Peak: Peak detector.
  4. AVG:  $VBW=1/Ton$ , where:  $Ton$  is the transmitting duration.
  5. For the transmitting duration, please refer to clause 7.1.
  6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: Both the two antennas had been tested, but only the worst data was recorded in the report.

### 8.3.3. 802.11n HT20 MODE

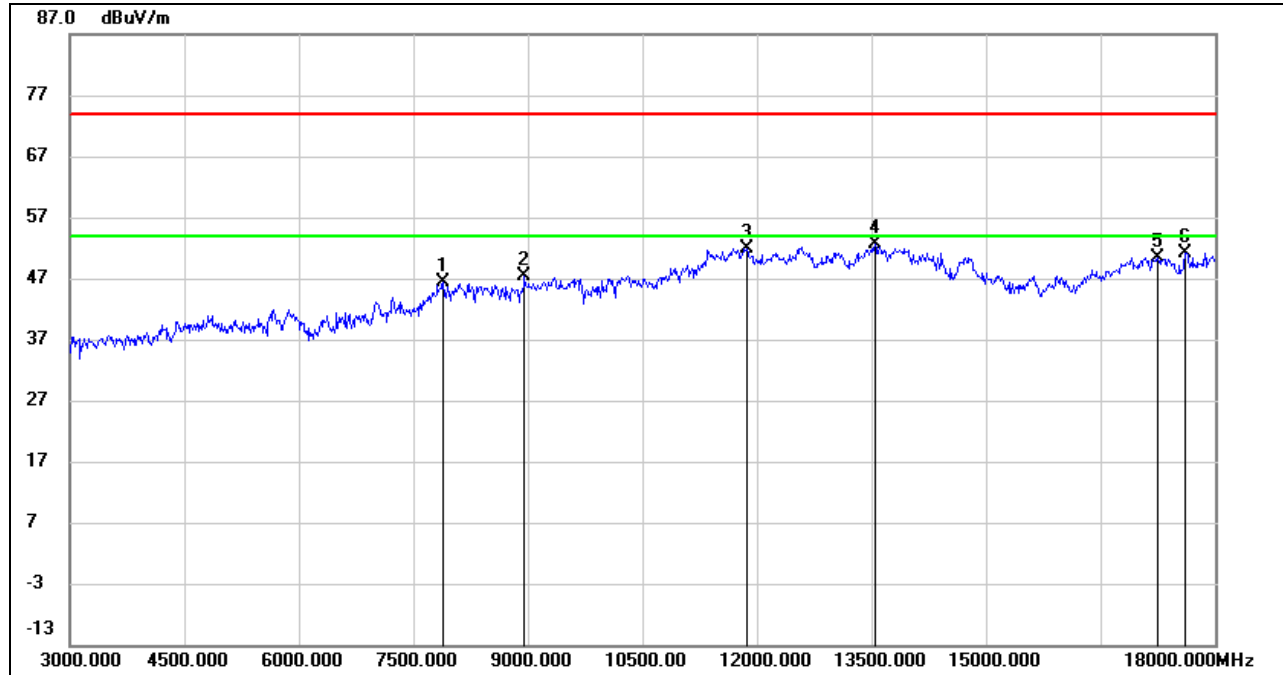
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8120.625	37.25	9.48	46.73	74.00	-27.27	peak
2	8968.125	37.00	10.15	47.15	74.00	-26.85	peak
3	11698.125	35.15	17.10	52.25	74.00	-21.75	peak
4	13483.125	33.62	19.17	52.79	74.00	-21.21	peak
5	17261.250	29.45	21.19	50.64	74.00	-23.36	peak
6	17960.625	27.12	24.71	51.83	74.00	-22.17	peak

- Note:
1. Peak Result = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. Peak: Peak detector.
  4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.
  5. For the transmitting duration, please refer to clause 7.1.
  6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	38.03	8.28	46.31	74.00	-27.69	peak
2	8968.125	37.32	10.15	47.47	74.00	-26.53	peak
3	11874.375	34.78	17.17	51.95	74.00	-22.05	peak
4	13545.000	33.50	19.13	52.63	74.00	-21.37	peak
5	17261.250	29.27	21.19	50.46	74.00	-23.54	peak
6	17619.375	28.62	22.51	51.13	74.00	-22.87	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

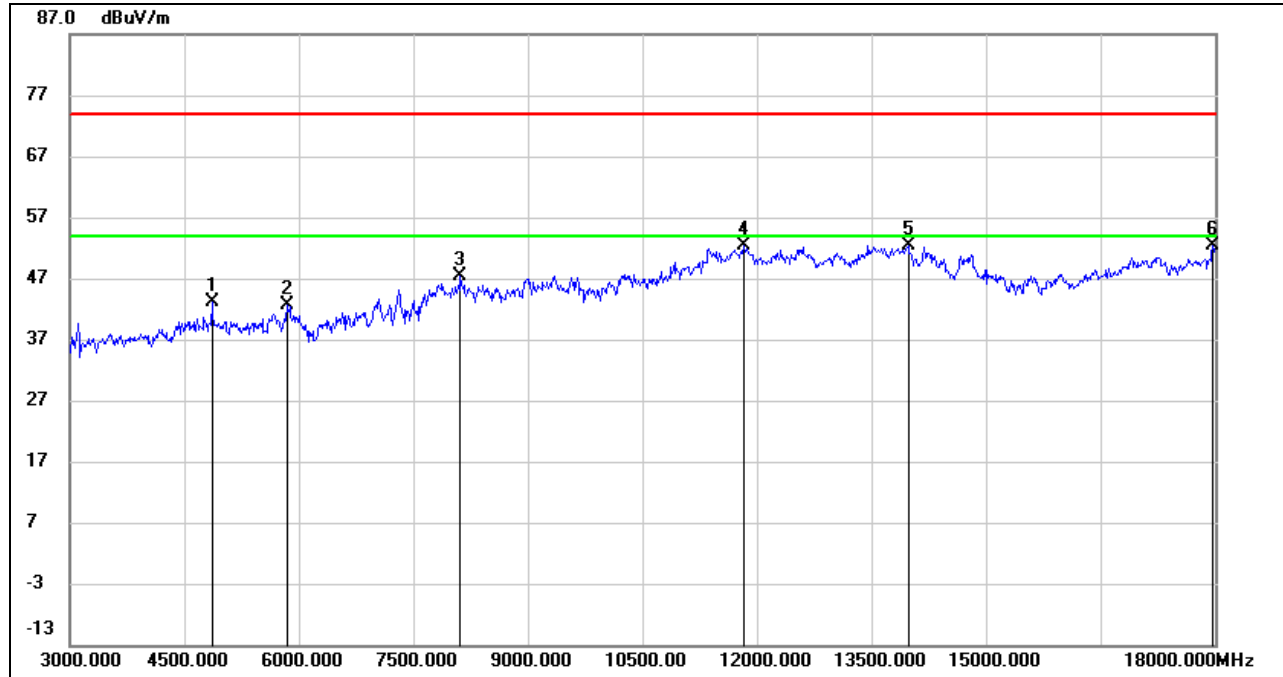
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

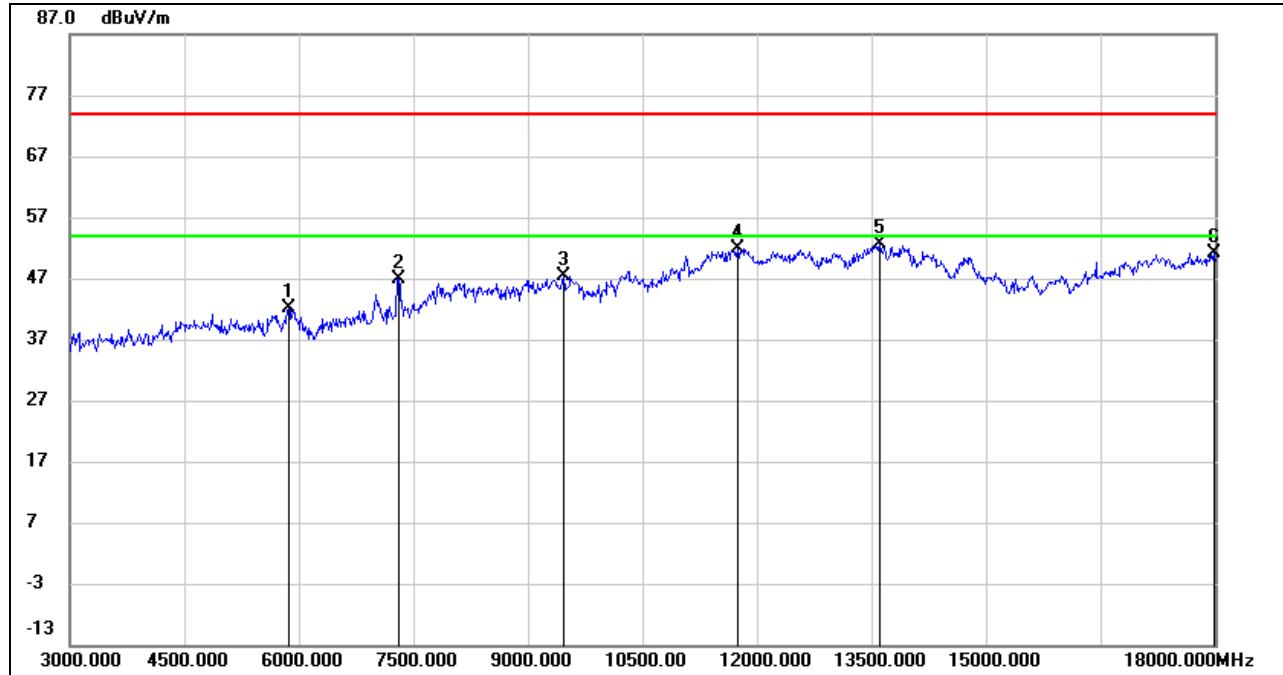


**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	42.99	0.04	43.03	74.00	-30.97	peak
2	5850.000	39.77	2.93	42.70	74.00	-31.30	peak
3	8115.000	37.86	9.50	47.36	74.00	-26.64	peak
4	11820.000	35.43	17.03	52.46	74.00	-21.54	peak
5	13980.000	33.06	19.35	52.41	74.00	-21.59	peak
6	17970.000	27.57	24.77	52.34	74.00	-21.66	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	38.97	3.09	42.06	74.00	-31.94	peak
2	7306.875	40.56	6.35	46.91	74.00	-27.09	peak
3	9465.000	36.74	10.55	47.29	74.00	-26.71	peak
4	11756.250	34.86	17.03	51.89	74.00	-22.11	peak
5	13608.750	33.50	19.08	52.58	74.00	-21.42	peak
6	17992.500	26.11	24.92	51.03	74.00	-22.97	peak

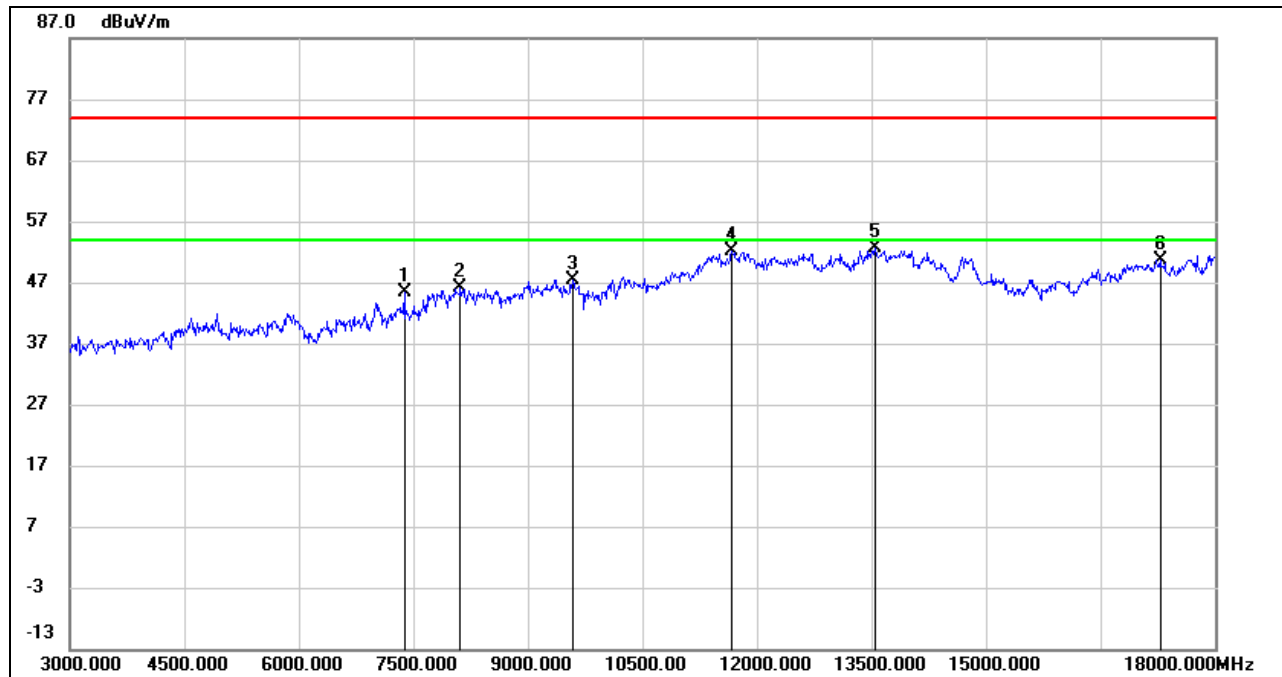
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7380.000	38.25	7.02	45.27	74.00	-28.73	peak
2	8115.000	36.70	9.50	46.20	74.00	-27.80	peak
3	9585.000	36.40	10.98	47.38	74.00	-26.62	peak
4	11670.000	35.31	16.93	52.24	74.00	-21.76	peak
5	13545.000	33.57	19.13	52.70	74.00	-21.30	peak
6	17280.000	29.30	21.34	50.64	74.00	-23.36	peak

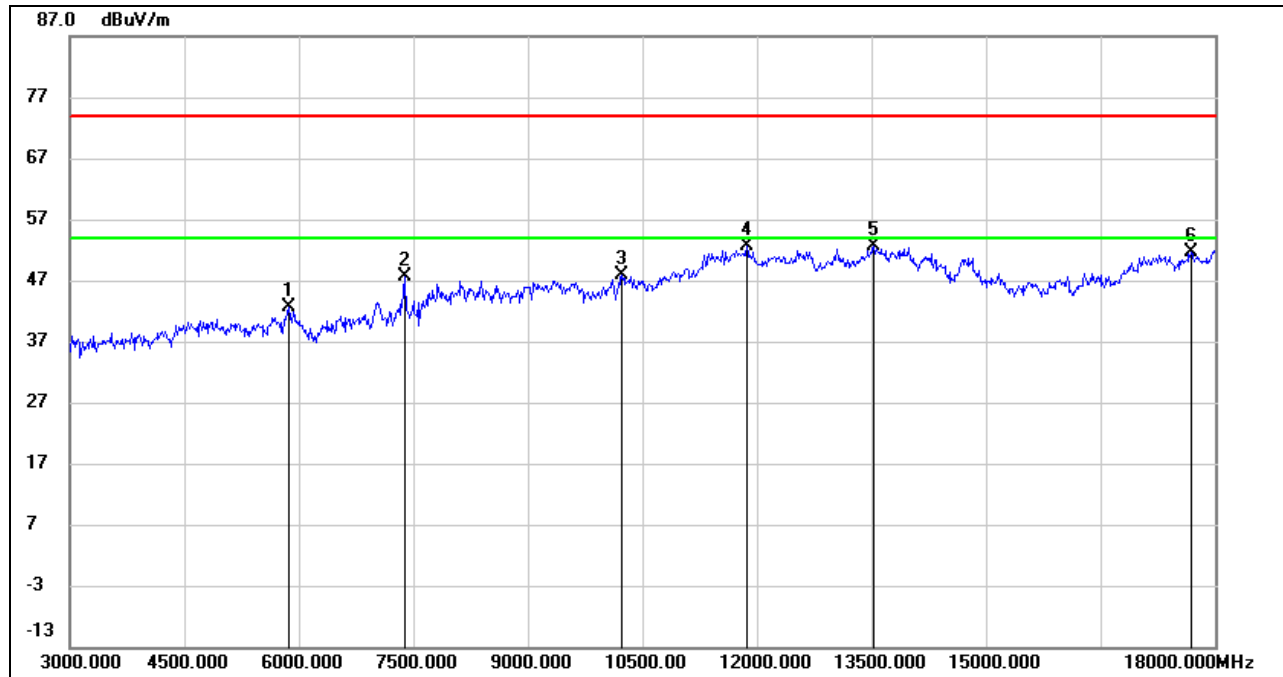
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

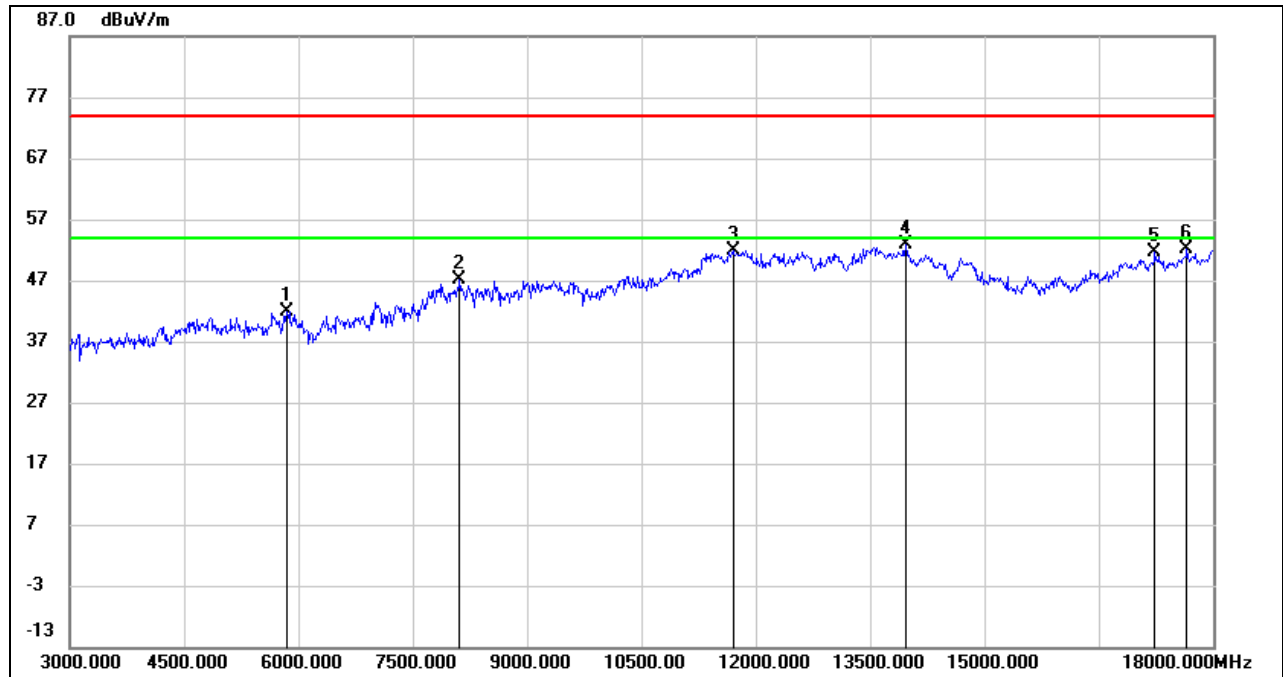
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.48	3.09	42.57	74.00	-31.43	peak
2	7380.000	40.50	7.02	47.52	74.00	-26.48	peak
3	10230.000	35.78	12.13	47.91	74.00	-26.09	peak
4	11865.000	35.55	17.14	52.69	74.00	-21.31	peak
5	13530.000	33.35	19.17	52.52	74.00	-21.48	peak
6	17685.000	28.54	23.18	51.72	74.00	-22.28	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 5. For the transmitting duration, please refer to clause 7.1.  
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



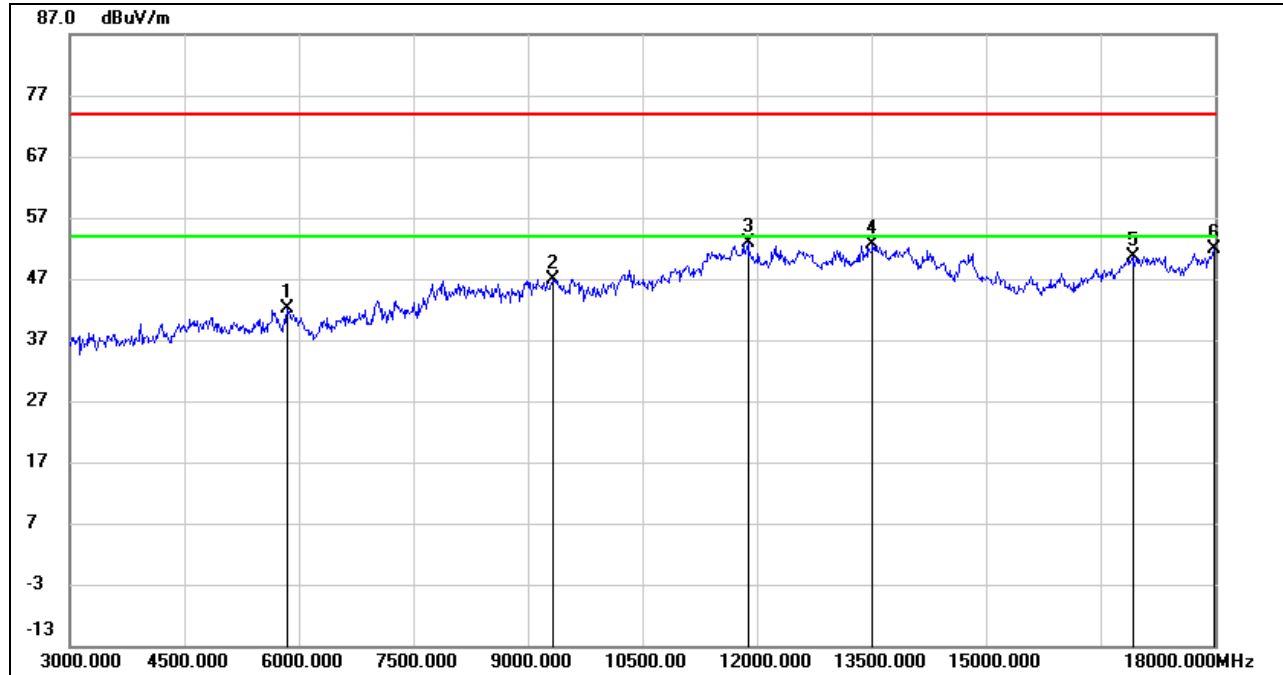
### 8.3.4. 802.11n HT40 MODE

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	38.88	2.93	41.81	74.00	-32.19	peak
2	8115.000	37.71	9.50	47.21	74.00	-26.79	peak
3	11700.000	34.87	17.11	51.98	74.00	-22.02	peak
4	13965.000	33.56	19.34	52.90	74.00	-21.10	peak
5	17235.000	30.68	20.98	51.66	74.00	-22.34	peak
6	17655.000	29.26	22.87	52.13	74.00	-21.87	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.17	2.93	42.10	74.00	-31.90	peak
2	9330.000	36.62	10.34	46.96	74.00	-27.04	peak
3	11880.000	35.81	17.18	52.99	74.00	-21.01	peak
4	13515.000	33.42	19.18	52.60	74.00	-21.40	peak
5	16920.000	30.87	19.70	50.57	74.00	-23.43	peak
6	17985.000	27.05	24.87	51.92	74.00	-22.08	peak

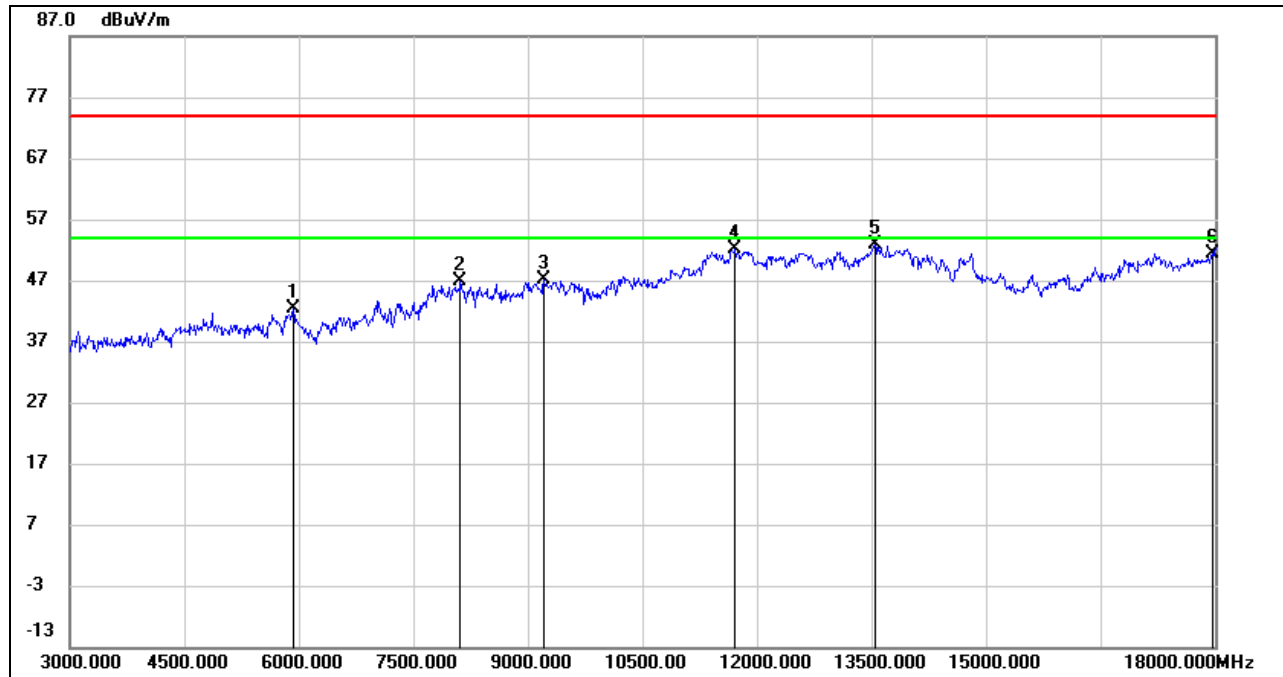
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5925.000	39.05	3.30	42.35	74.00	-31.65	peak
2	8115.000	37.30	9.50	46.80	74.00	-27.20	peak
3	9210.000	37.51	9.62	47.13	74.00	-26.87	peak
4	11715.000	35.16	17.09	52.25	74.00	-21.75	peak
5	13545.000	33.73	19.13	52.86	74.00	-21.14	peak
6	17970.000	26.71	24.77	51.48	74.00	-22.52	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

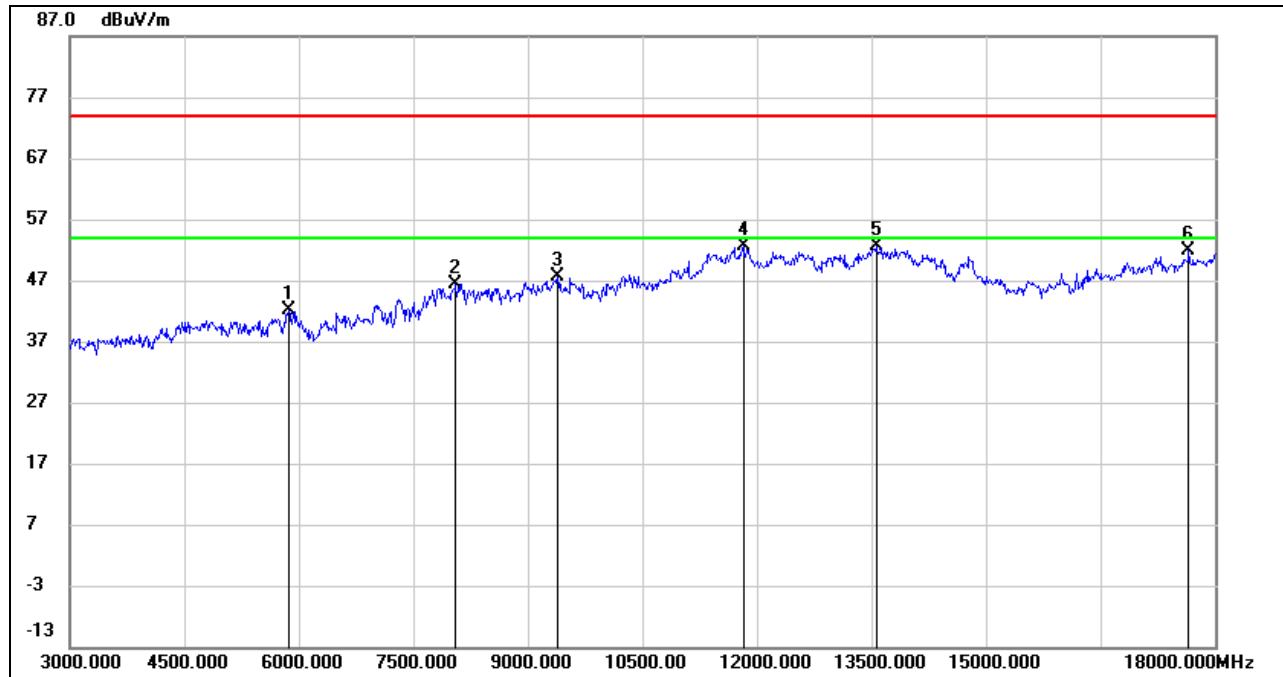
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	38.92	3.09	42.01	74.00	-31.99	peak
2	8055.000	37.53	8.87	46.40	74.00	-27.60	peak
3	9390.000	36.81	10.73	47.54	74.00	-26.46	peak
4	11820.000	35.63	17.03	52.66	74.00	-21.34	peak
5	13560.000	33.43	19.12	52.55	74.00	-21.45	peak
6	17655.000	28.93	22.87	51.80	74.00	-22.20	peak

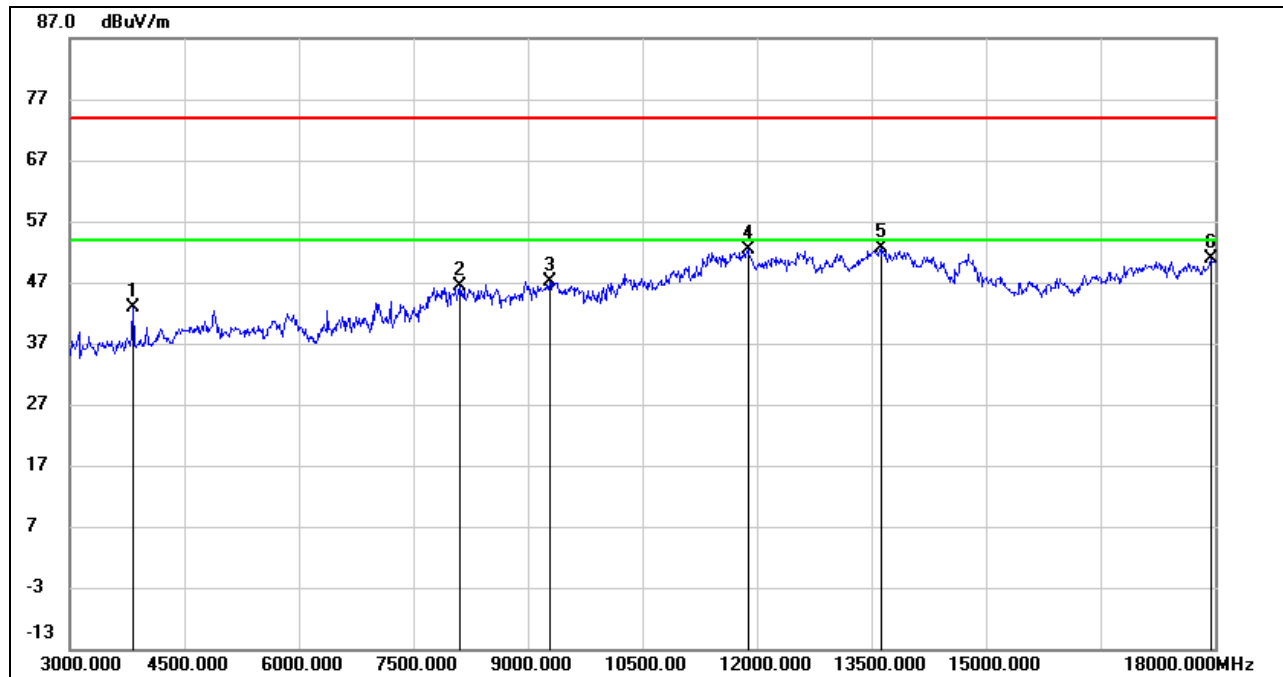
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3825.000	46.63	-3.70	42.93	74.00	-31.07	peak
2	8115.000	36.88	9.50	46.38	74.00	-27.62	peak
3	9285.000	37.13	10.06	47.19	74.00	-26.81	peak
4	11880.000	35.10	17.18	52.28	74.00	-21.72	peak
5	13620.000	33.58	19.12	52.70	74.00	-21.30	peak
6	17940.000	26.31	24.57	50.88	74.00	-23.12	peak

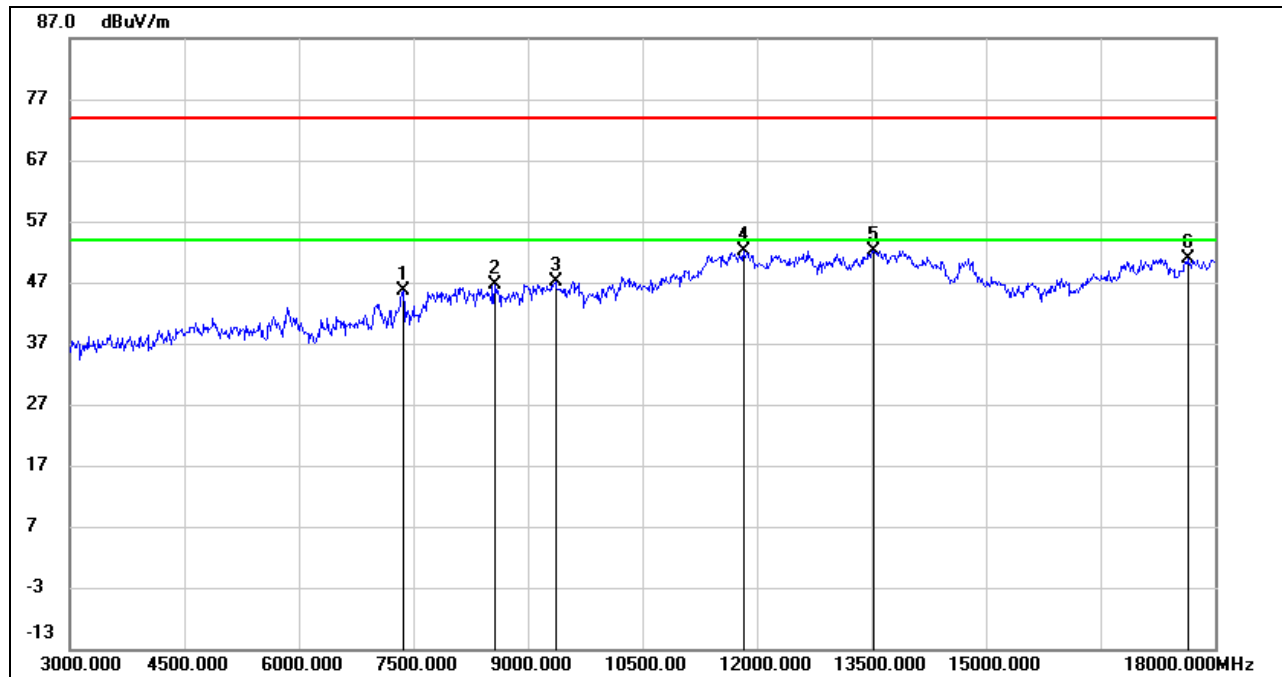
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

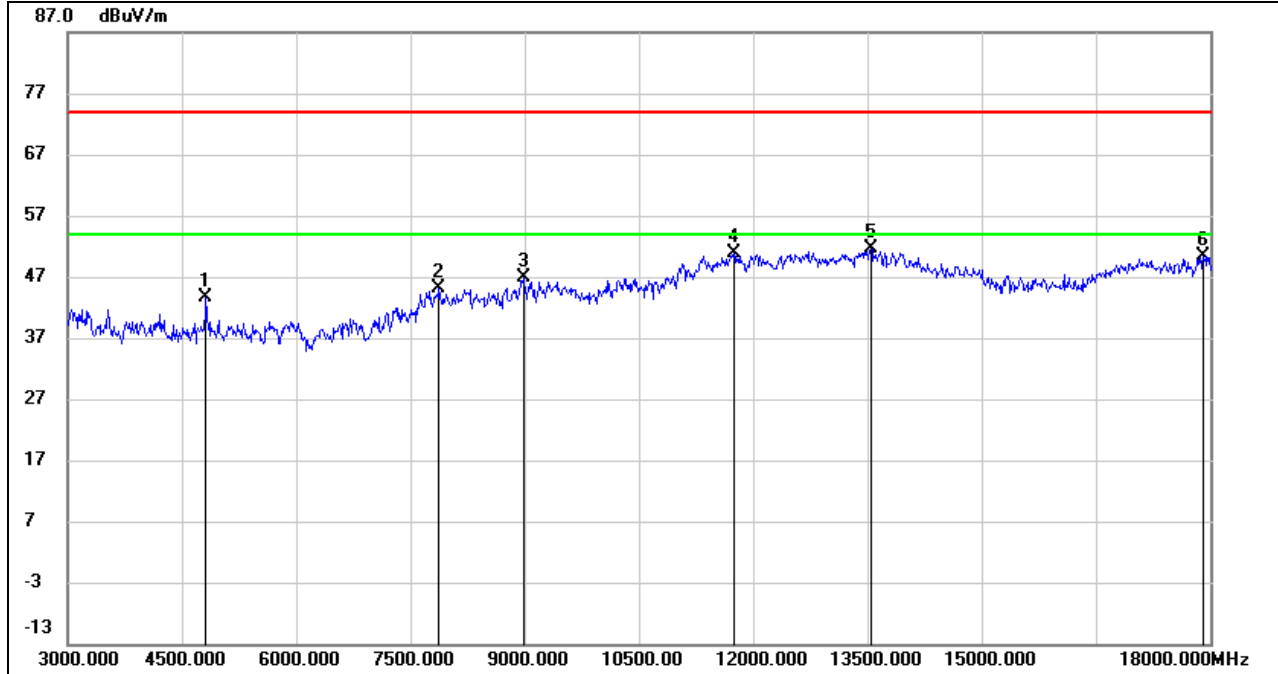
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7365.000	38.78	6.88	45.66	74.00	-28.34	peak
2	8565.000	38.11	8.48	46.59	74.00	-27.41	peak
3	9360.000	36.62	10.54	47.16	74.00	-26.84	peak
4	11820.000	35.08	17.03	52.11	74.00	-21.89	peak
5	13530.000	33.00	19.17	52.17	74.00	-21.83	peak
6	17640.000	28.19	22.72	50.91	74.00	-23.09	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

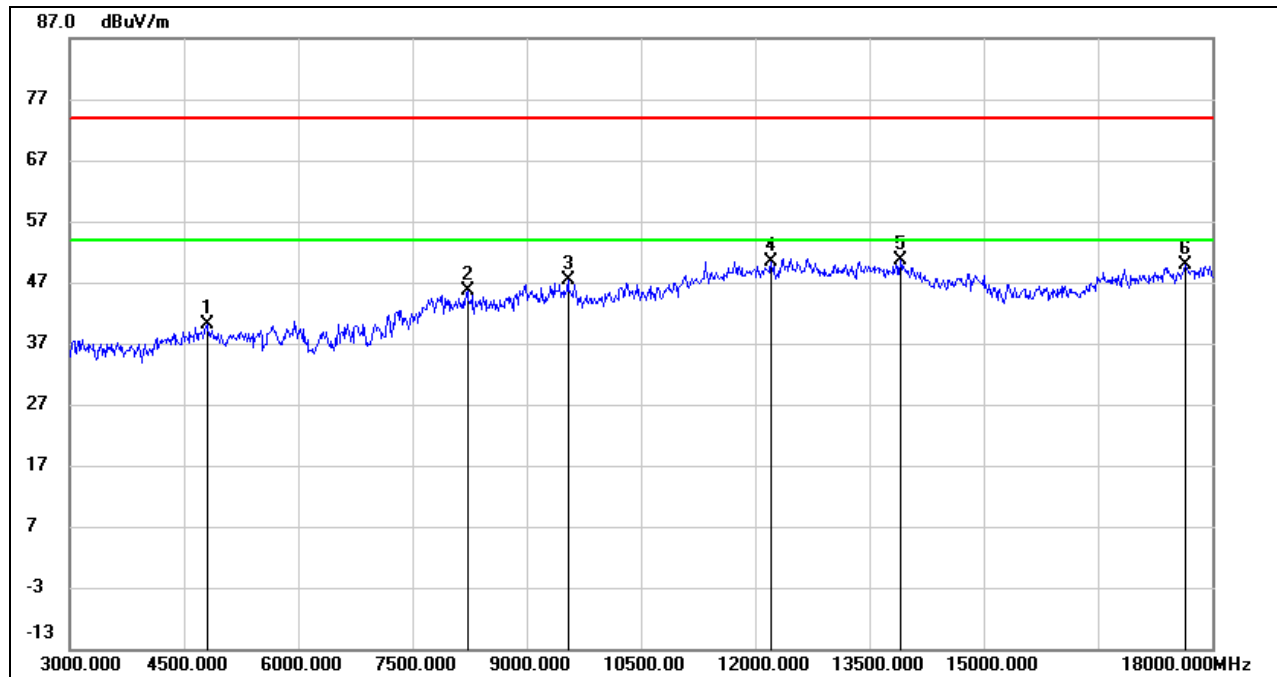
### 8.3.5. 802.11ax HE20 MODE

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



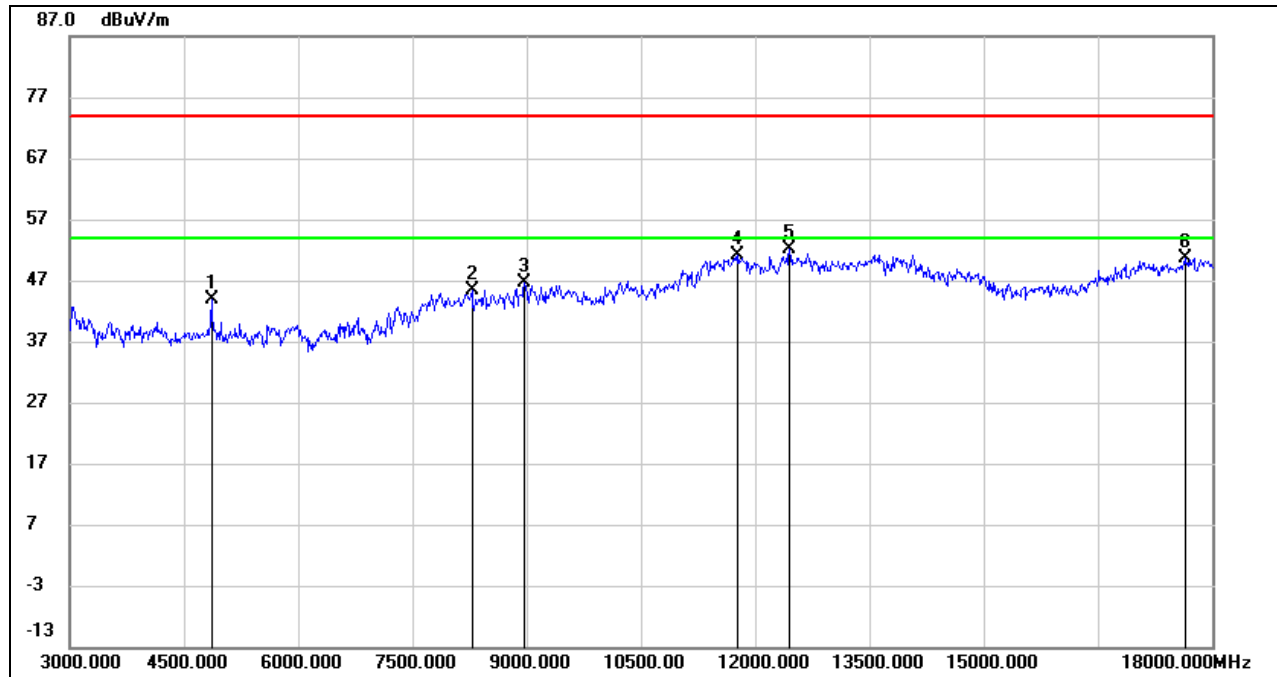
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4826.500	44.23	-0.63	43.60	74.00	-30.40	peak
2	7881.500	37.70	7.39	45.09	74.00	-28.91	peak
3	8991.500	36.76	10.04	46.80	74.00	-27.20	peak
4	11758.500	33.67	17.14	50.81	74.00	-23.19	peak
5	13555.500	33.30	18.39	51.69	74.00	-22.31	peak
6	17911.000	27.19	23.15	50.34	74.00	-23.66	peak

- Note:
1. Peak Result = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. Peak: Peak detector.
  4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.
  5. For the transmitting duration, please refer to clause 7.1.
  6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4814.500	40.85	-0.64	40.21	74.00	-33.79	peak
2	8233.000	37.04	8.59	45.63	74.00	-28.37	peak
3	9546.000	36.89	10.42	47.31	74.00	-26.69	peak
4	12224.000	33.70	16.68	50.38	74.00	-23.62	peak
5	13912.500	31.91	18.65	50.56	74.00	-23.44	peak
6	17649.000	28.70	21.26	49.96	74.00	-24.04	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4868.500	44.36	-0.60	43.76	74.00	-30.24	peak
2	8286.500	37.06	8.37	45.43	74.00	-28.57	peak
3	8984.500	36.70	9.96	46.66	74.00	-27.34	peak
4	11781.000	33.95	17.25	51.20	74.00	-22.80	peak
5	12453.500	35.29	16.78	52.07	74.00	-21.93	peak
6	17653.000	29.40	21.31	50.71	74.00	-23.29	peak

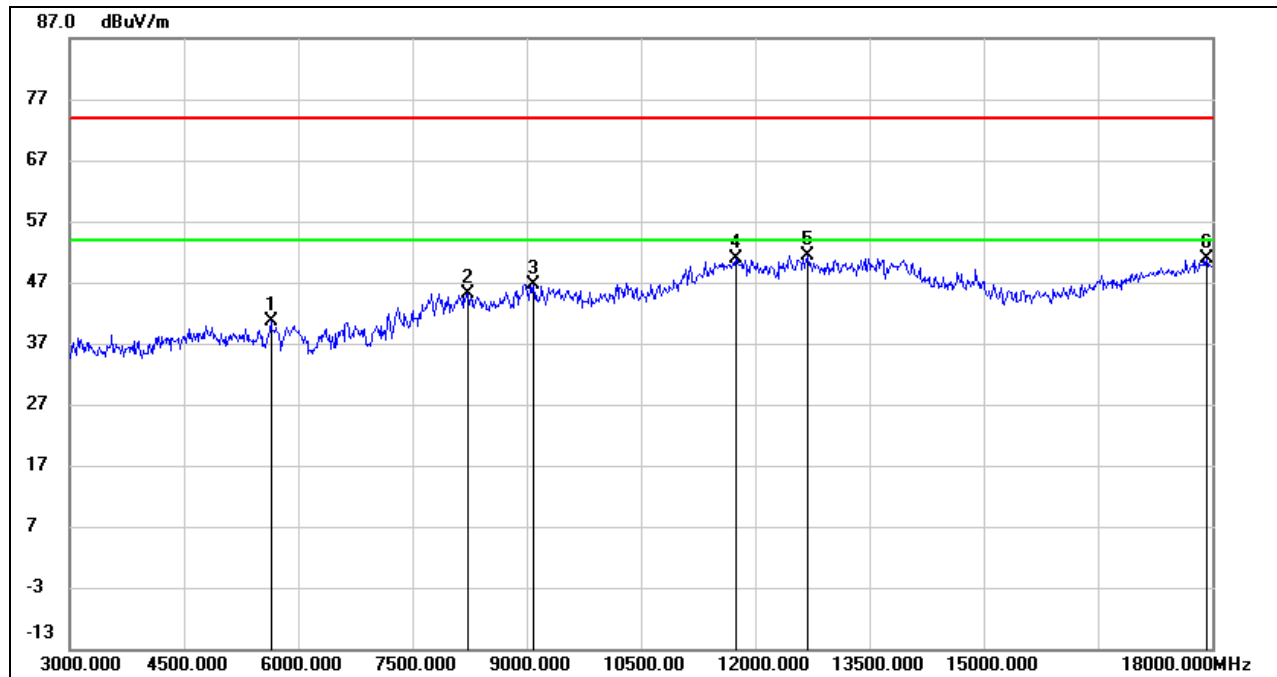
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.500	39.08	1.44	40.52	74.00	-33.48	peak
2	8239.500	36.51	8.56	45.07	74.00	-28.93	peak
3	9098.500	37.09	9.55	46.64	74.00	-27.36	peak
4	11745.000	33.75	17.07	50.82	74.00	-23.18	peak
5	12702.500	34.60	16.85	51.45	74.00	-22.55	peak
6	17929.500	27.65	23.19	50.84	74.00	-23.16	peak

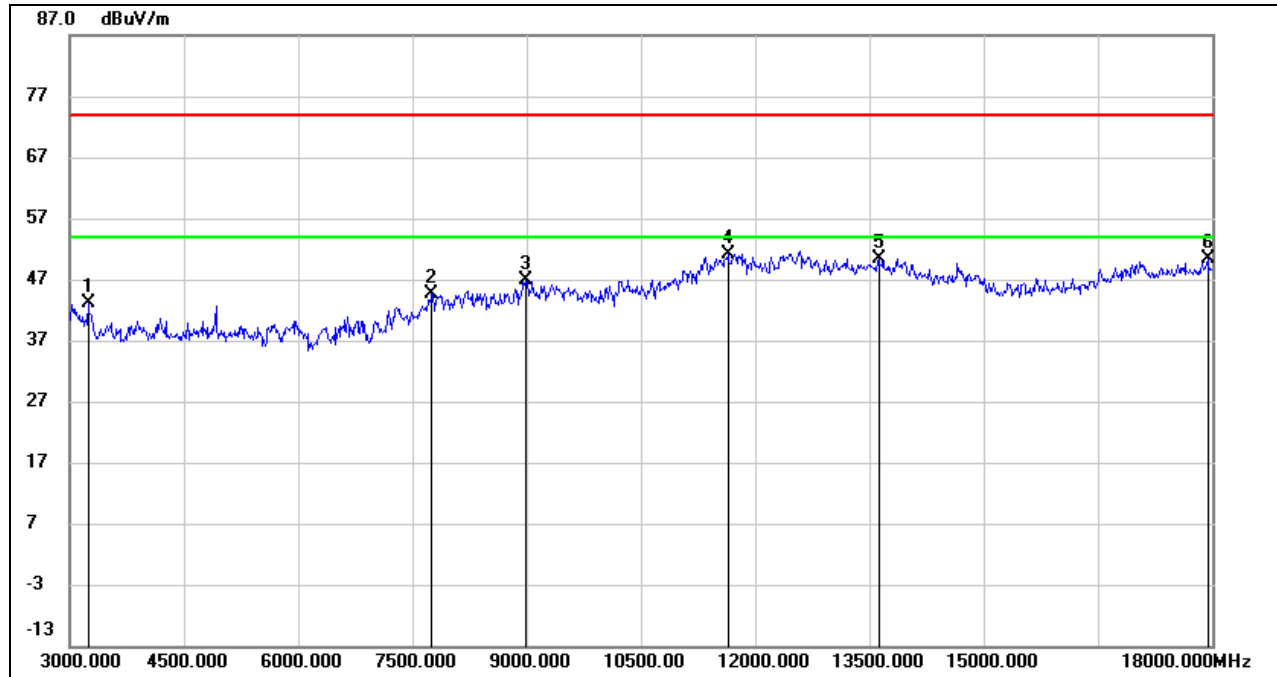
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

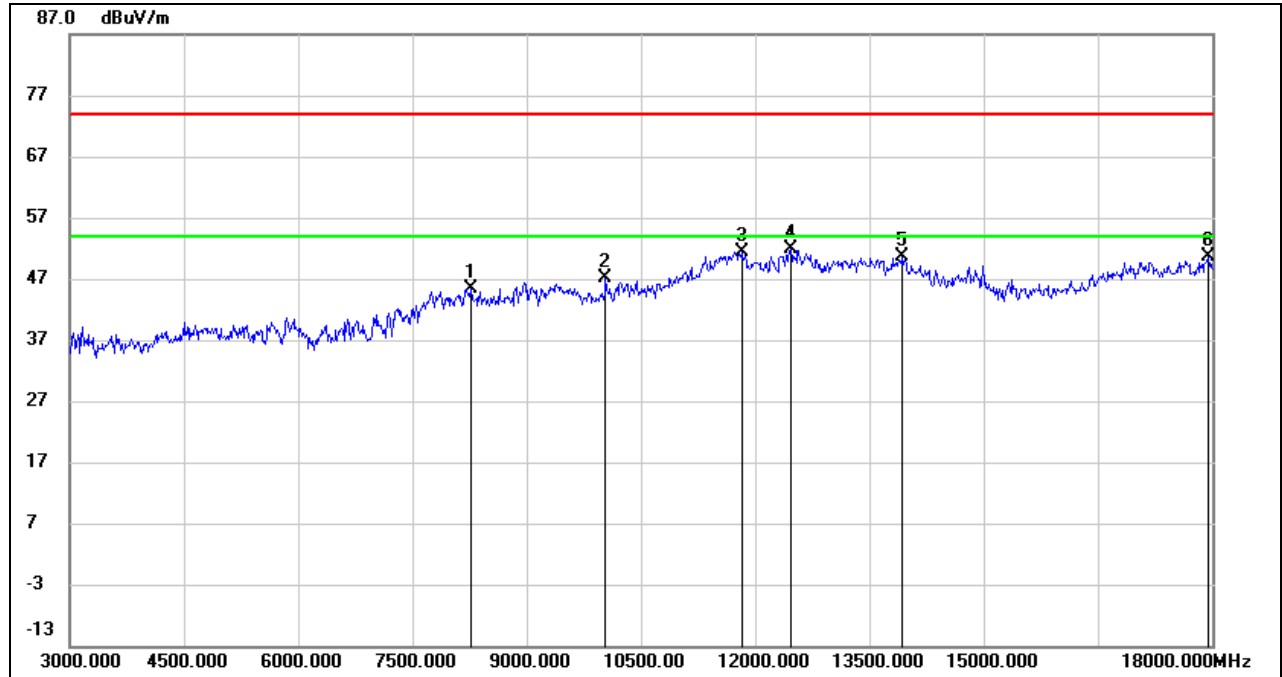
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3246.500	49.76	-6.53	43.23	74.00	-30.77	peak
2	7756.000	37.24	7.42	44.66	74.00	-29.34	peak
3	8988.500	36.89	10.01	46.90	74.00	-27.10	peak
4	11652.000	34.57	16.57	51.14	74.00	-22.86	peak
5	13622.000	32.07	18.41	50.48	74.00	-23.52	peak
6	17942.000	27.09	23.22	50.31	74.00	-23.69	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



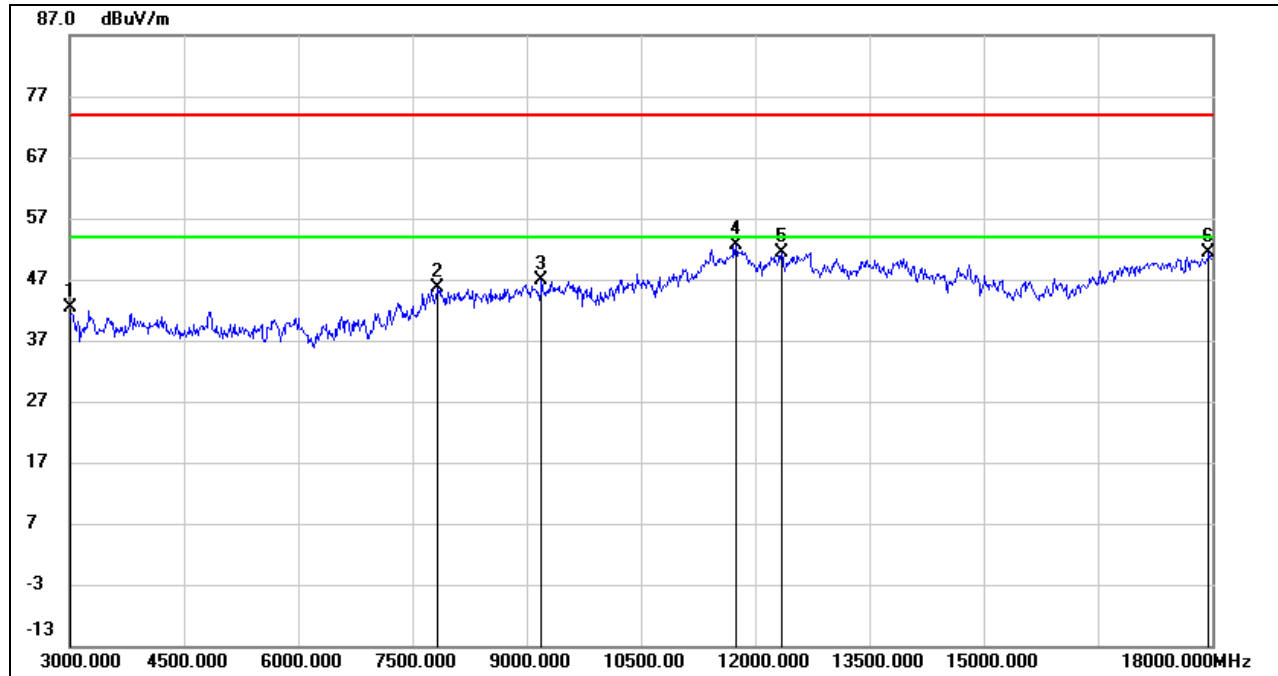
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8272.000	36.99	8.43	45.42	74.00	-28.58	peak
2	10049.500	36.21	10.95	47.16	74.00	-26.84	peak
3	11824.000	34.09	17.32	51.41	74.00	-22.59	peak
4	12466.500	35.16	16.74	51.90	74.00	-22.10	peak
5	13949.500	31.91	18.61	50.52	74.00	-23.48	peak
6	17955.500	27.35	23.25	50.60	74.00	-23.40	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 5. For the transmitting duration, please refer to clause 7.1.  
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

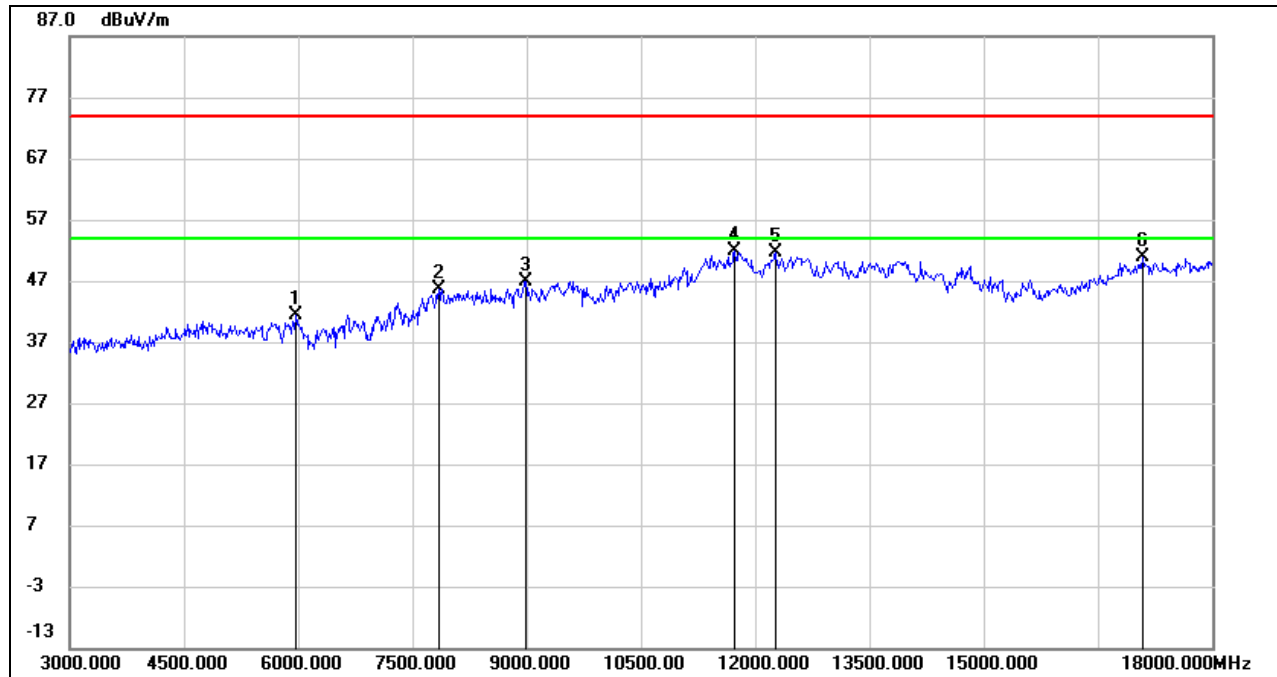
### 8.3.6. 802.11ax HE40 MODE

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3000.000	49.50	-7.09	42.41	74.00	-31.59	peak
2	7830.000	38.20	7.53	45.73	74.00	-28.27	peak
3	9195.000	37.80	8.97	46.77	74.00	-27.23	peak
4	11745.000	35.50	17.07	52.57	74.00	-21.43	peak
5	12345.000	34.62	16.82	51.44	74.00	-22.56	peak
6	17955.000	28.06	23.26	51.32	74.00	-22.68	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5970.000	39.26	2.09	41.35	74.00	-32.65	peak
2	7845.000	38.24	7.49	45.73	74.00	-28.27	peak
3	8985.000	37.03	9.96	46.99	74.00	-27.01	peak
4	11730.000	34.87	16.98	51.85	74.00	-22.15	peak
5	12270.000	34.89	16.73	51.62	74.00	-22.38	peak
6	17085.000	31.93	19.05	50.98	74.00	-23.02	peak

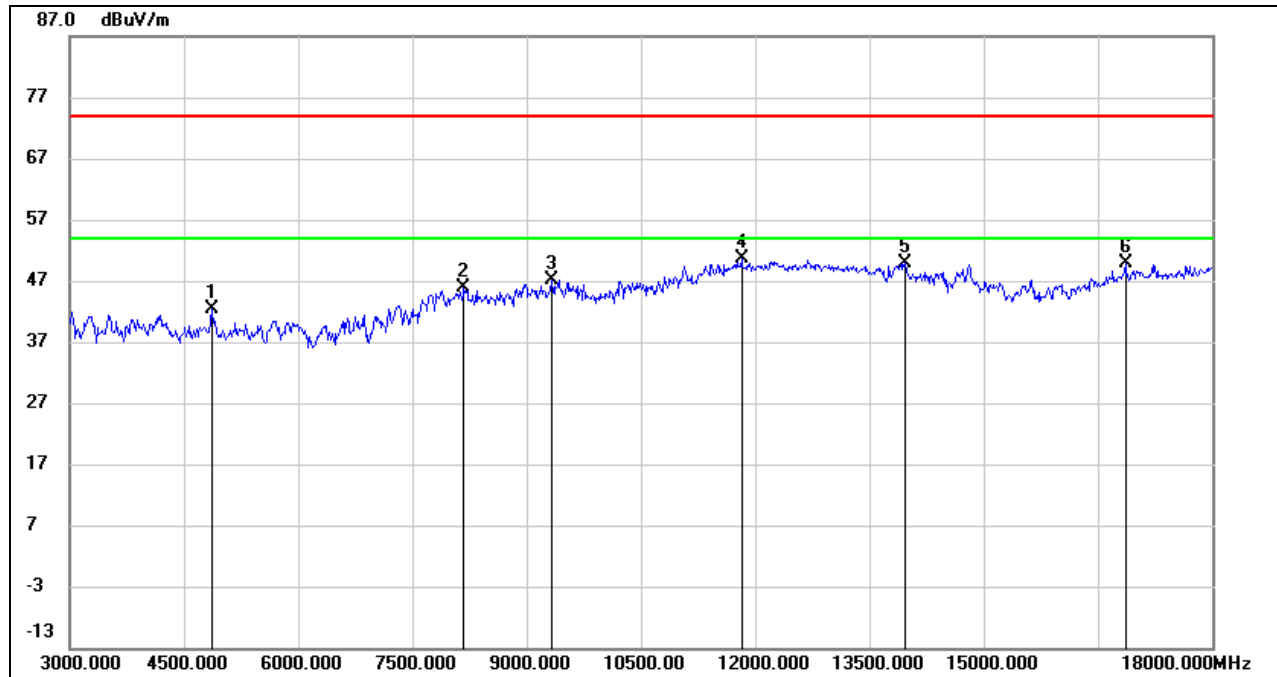
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	43.01	-0.61	42.40	74.00	-31.60	peak
2	8175.000	37.37	8.51	45.88	74.00	-28.12	peak
3	9330.000	37.40	9.72	47.12	74.00	-26.88	peak
4	11820.000	33.35	17.32	50.67	74.00	-23.33	peak
5	13965.000	31.19	18.58	49.77	74.00	-24.23	peak
6	16860.000	31.90	17.99	49.89	74.00	-24.11	peak

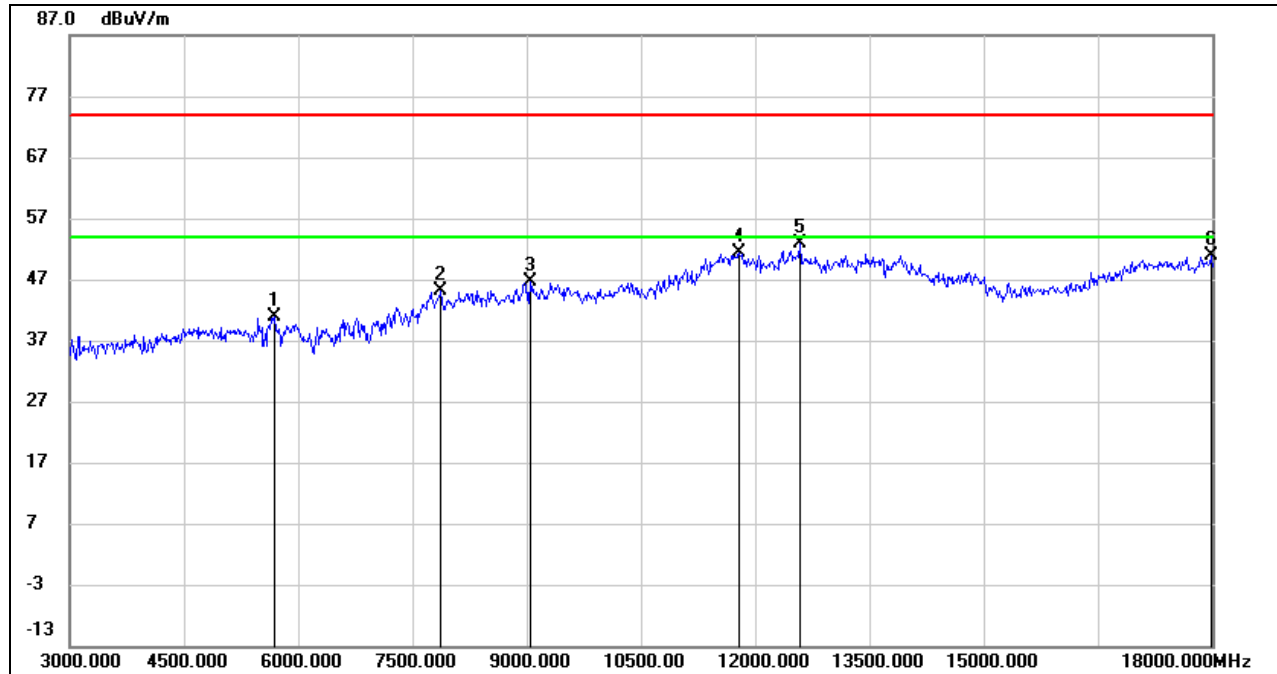
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5689.500	39.40	1.44	40.84	74.00	-33.16	peak
2	7877.500	37.72	7.40	45.12	74.00	-28.88	peak
3	9055.500	36.81	9.81	46.62	74.00	-27.38	peak
4	11801.000	34.10	17.35	51.45	74.00	-22.55	peak
5	12585.500	36.15	16.63	52.78	74.00	-21.22	peak
6	17996.500	27.54	23.36	50.90	74.00	-23.10	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

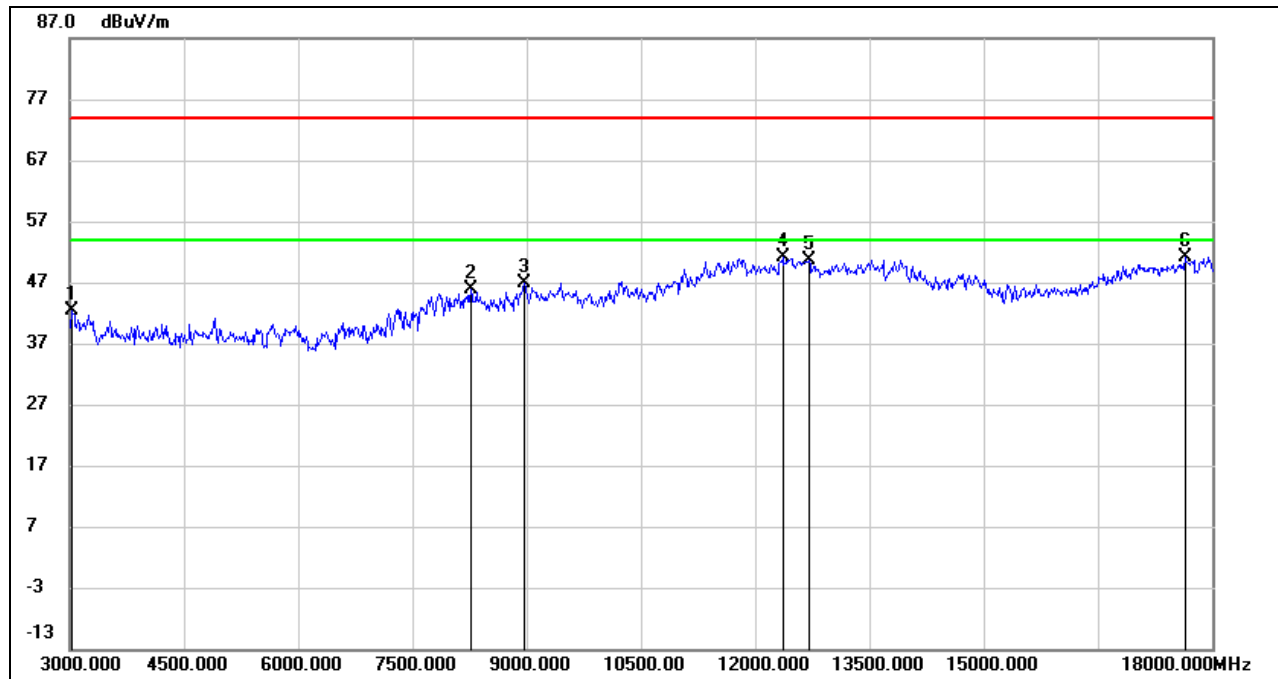
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

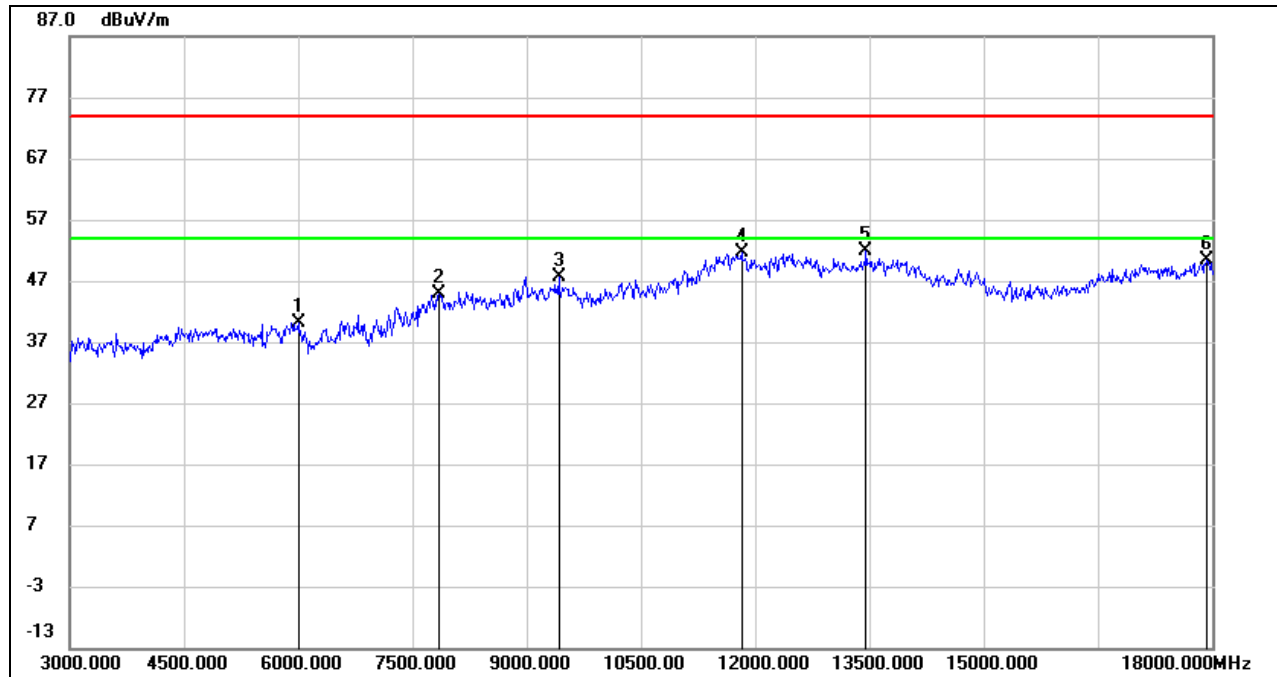


**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3041.500	49.40	-6.98	42.42	74.00	-31.58	peak
2	8279.500	37.40	8.40	45.80	74.00	-28.20	peak
3	8981.000	37.00	9.92	46.92	74.00	-27.08	peak
4	12374.000	34.17	16.86	51.03	74.00	-22.97	peak
5	12716.000	33.85	16.88	50.73	74.00	-23.27	peak
6	17648.000	29.99	21.26	51.25	74.00	-22.75	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6001.000	38.03	2.20	40.23	74.00	-33.77	peak
2	7846.000	37.36	7.49	44.85	74.00	-29.15	peak
3	9431.000	37.47	10.20	47.67	74.00	-26.33	peak
4	11833.000	34.23	17.30	51.53	74.00	-22.47	peak
5	13460.000	33.43	18.33	51.76	74.00	-22.24	peak
6	17938.000	27.12	23.21	50.33	74.00	-23.67	peak

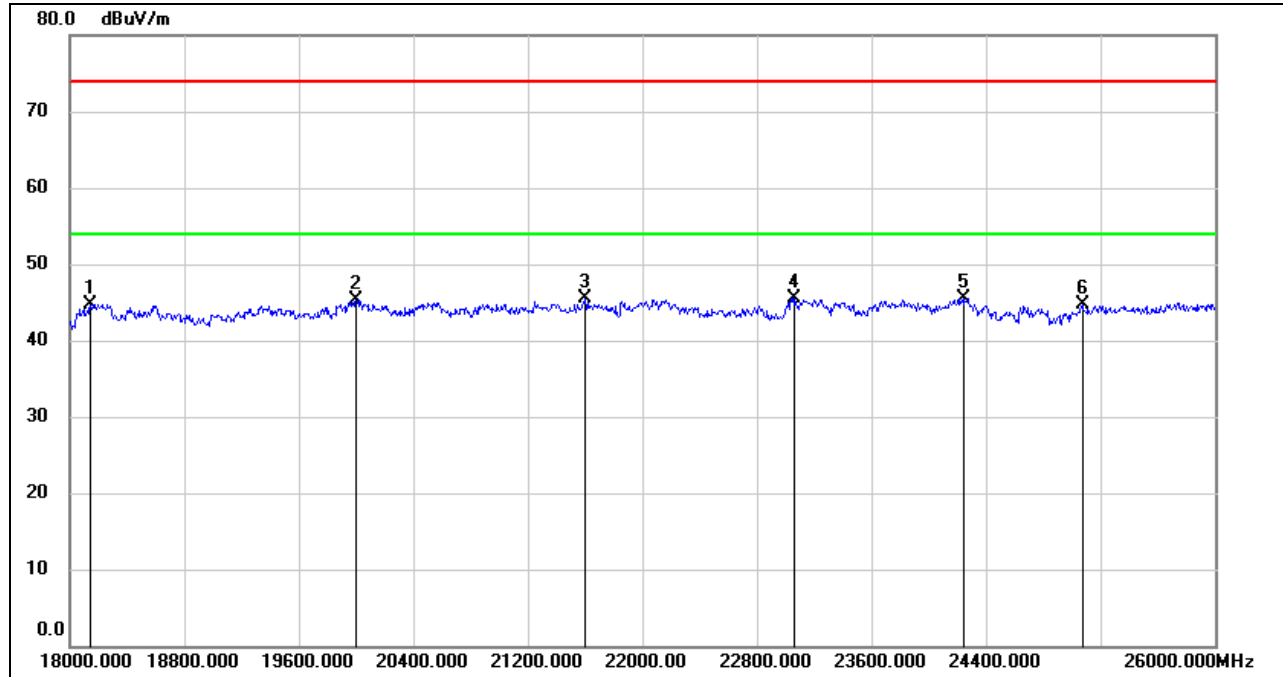
- Note: 1. Peak Result = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



### 8.5. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

#### 8.5.1. 802.11n HT20 MODE

#### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



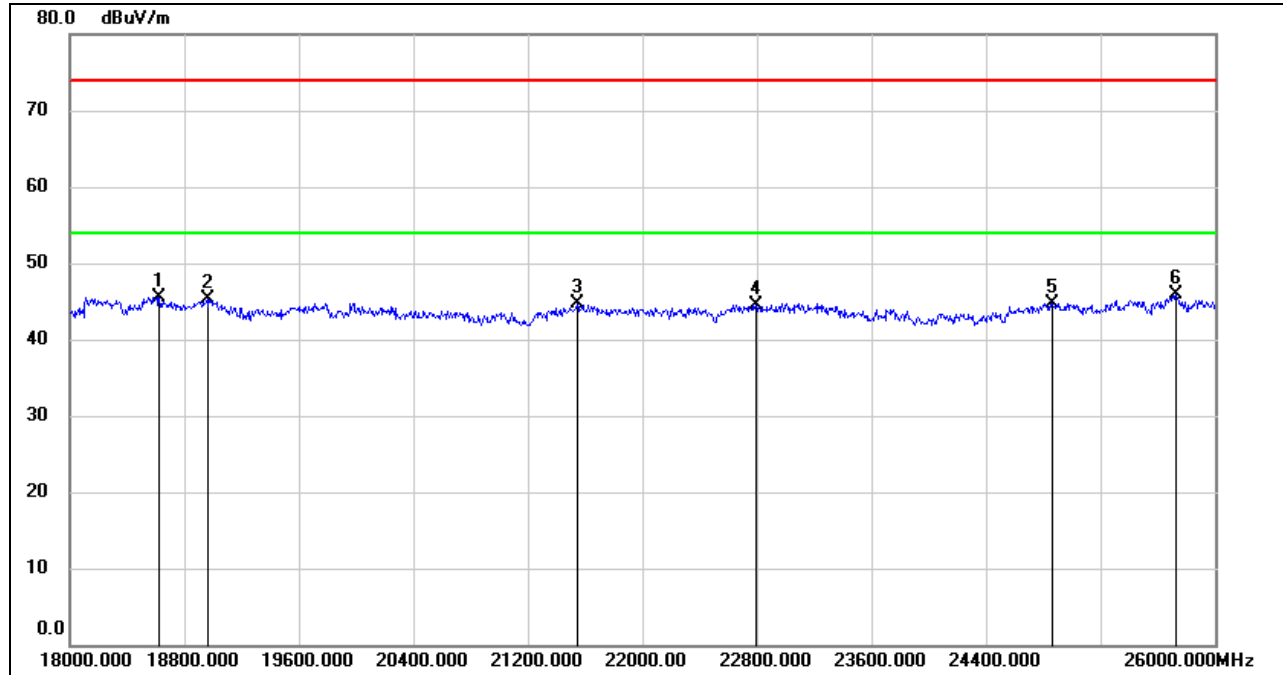
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18144.000	50.27	-5.48	44.79	74.00	-29.21	peak
2	20000.000	50.81	-5.45	45.36	74.00	-28.64	peak
3	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
4	23064.000	48.99	-3.42	45.57	74.00	-28.43	peak
5	24248.000	48.32	-2.83	45.49	74.00	-28.51	peak
6	25072.000	46.67	-1.97	44.70	74.00	-29.30	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





**SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18624.000	50.83	-5.34	45.49	74.00	-28.51	peak
2	18960.000	50.51	-5.25	45.26	74.00	-28.74	peak
3	21544.000	49.26	-4.63	44.63	74.00	-29.37	peak
4	22792.000	48.11	-3.65	44.46	74.00	-29.54	peak
5	24864.000	47.03	-2.23	44.80	74.00	-29.20	peak
6	25728.000	46.61	-0.72	45.89	74.00	-28.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.

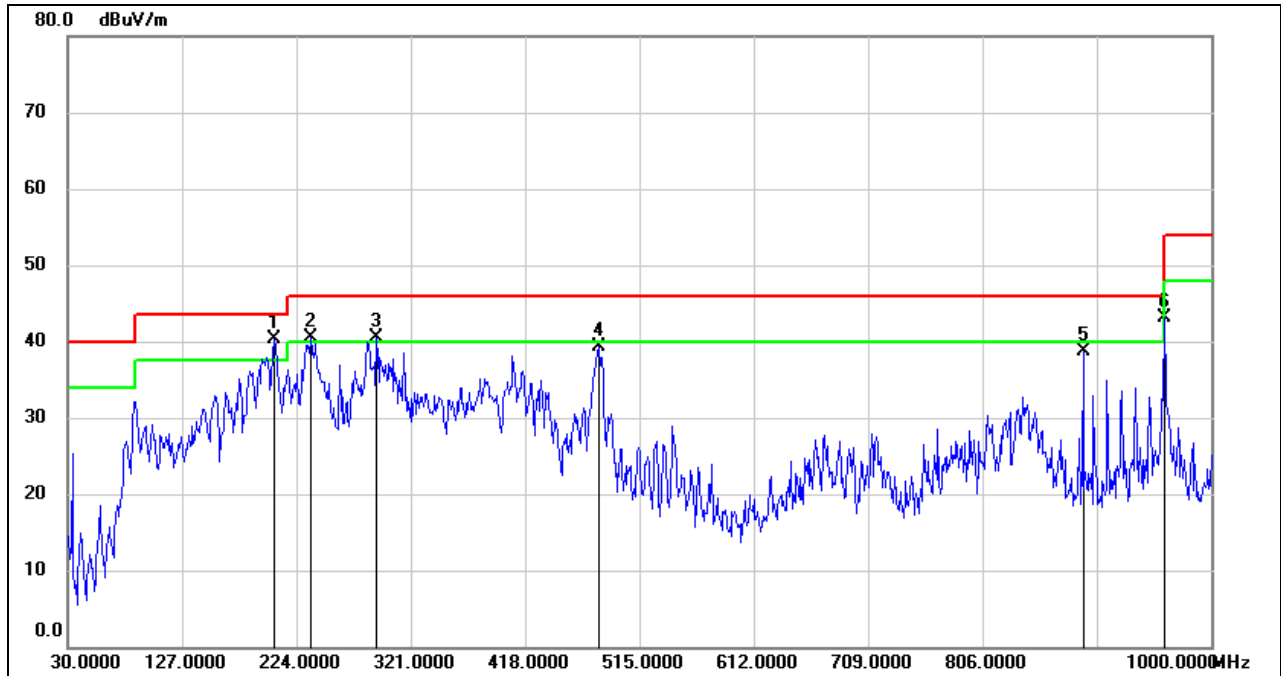
Note: All the modes, channels and antennas had been tested, but only the worst data was recorded in the report.



### 8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

#### 8.6.1. 802.11n HT20 MODE

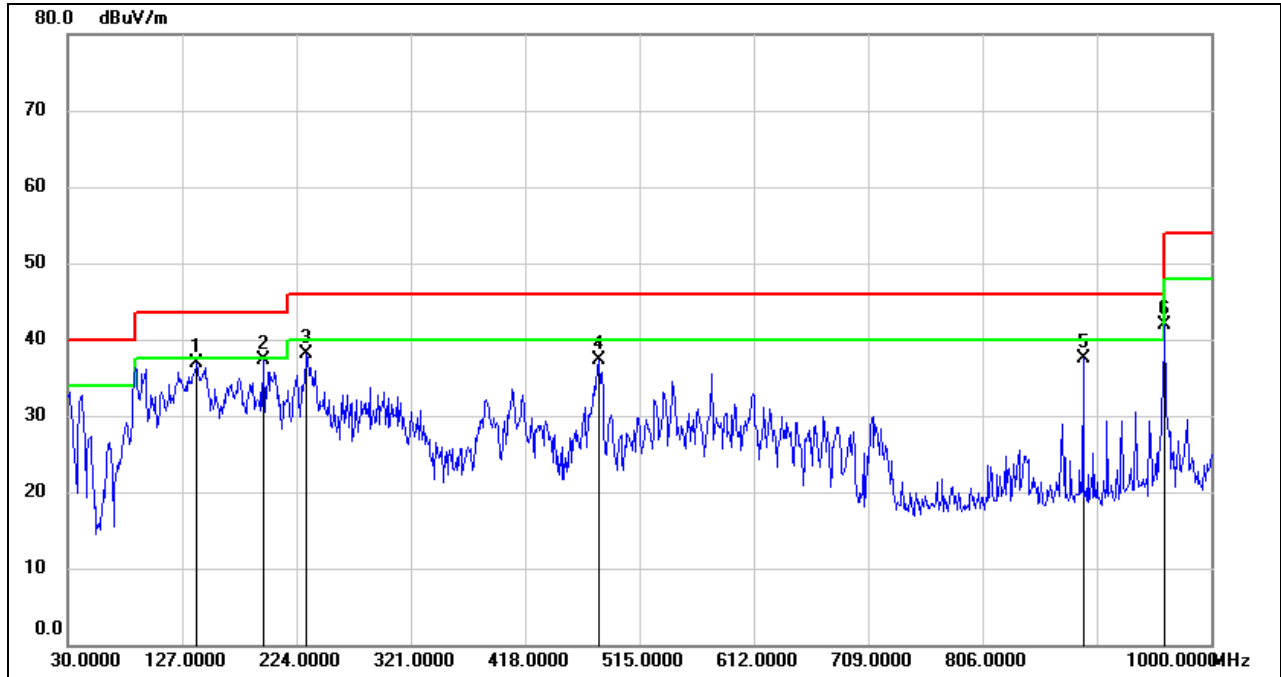
##### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	205.5700	57.15	-16.88	40.27	43.50	-3.23	QP
2	236.6100	59.42	-19.01	40.41	46.00	-5.59	QP
3	291.9000	56.31	-15.80	40.51	46.00	-5.49	QP
4	481.0500	51.00	-11.78	39.22	46.00	-6.78	QP
5	891.3600	44.04	-5.24	38.80	46.00	-7.20	QP
6	960.2300	47.57	-4.54	43.03	54.00	-10.97	QP

- Note: 1. Result Level = Read Level + Correct Factor.  
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

**SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	139.6100	55.75	-18.87	36.88	43.50	-6.62	QP
2	195.8700	53.74	-16.47	37.27	43.50	-6.23	QP
3	232.7300	56.91	-18.79	38.12	46.00	-7.88	QP
4	480.0800	49.08	-11.79	37.29	46.00	-8.71	QP
5	891.3600	42.68	-5.24	37.44	46.00	-8.56	QP
6	960.2300	46.48	-4.54	41.94	54.00	-12.06	QP

Note: 1. Result Level = Read Level + Correct Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

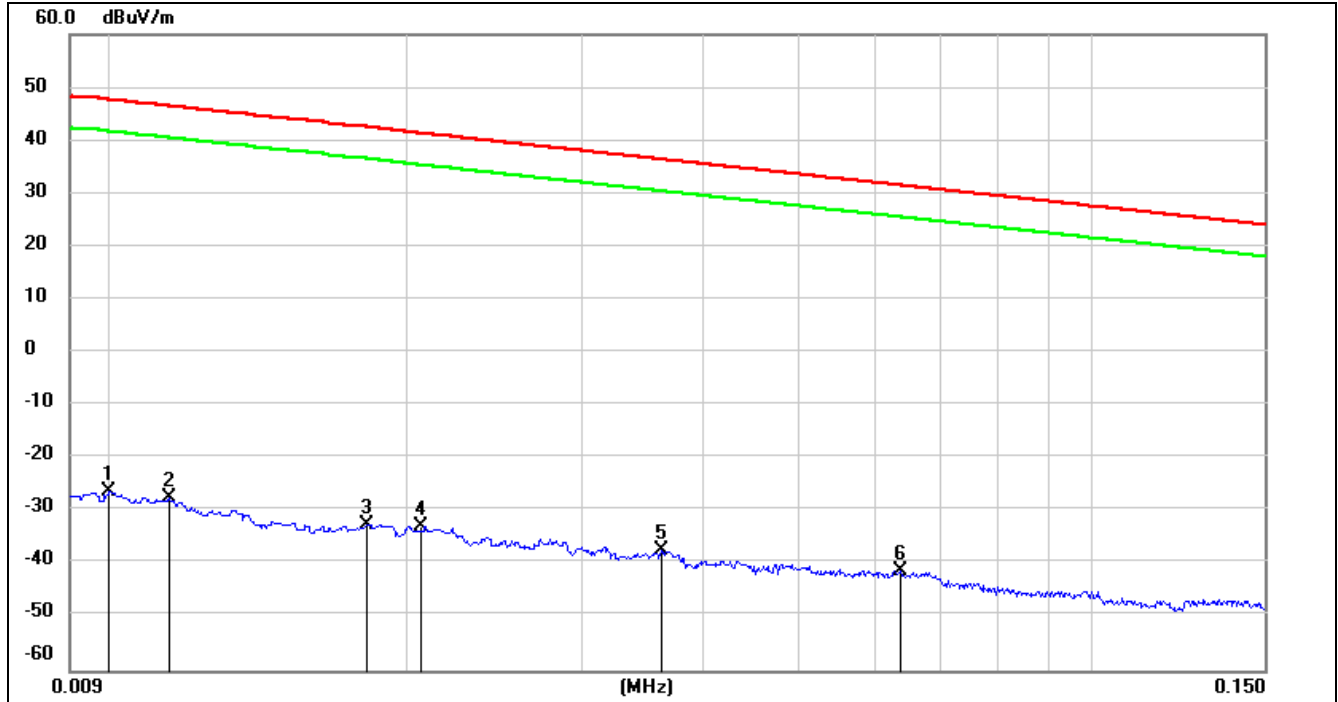
Note: All the modes, channels and antennas had been tested, but only the worst data was recorded in the report.

## 8.7. SPURIOUS EMISSIONS BELOW 30 MHz

### 8.7.1. 802.11n HT20 MODE

#### SPURIOUS EMISSIONS (LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz ~ 150 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0100	75.22	-101.40	-26.18	47.6	-77.68	-3.90	-73.78	peak
2	0.0114	73.88	-101.40	-27.52	46.46	-79.02	-5.04	-73.98	peak
3	0.0181	68.85	-101.36	-32.51	42.45	-84.01	-9.05	-74.96	peak
4	0.0206	68.42	-101.35	-32.93	41.32	-84.43	-10.18	-74.25	peak
5	0.0362	64.01	-101.42	-37.41	36.43	-88.91	-15.07	-73.84	peak
6	0.0636	60.31	-101.54	-41.23	31.53	-92.73	-19.97	-72.76	peak

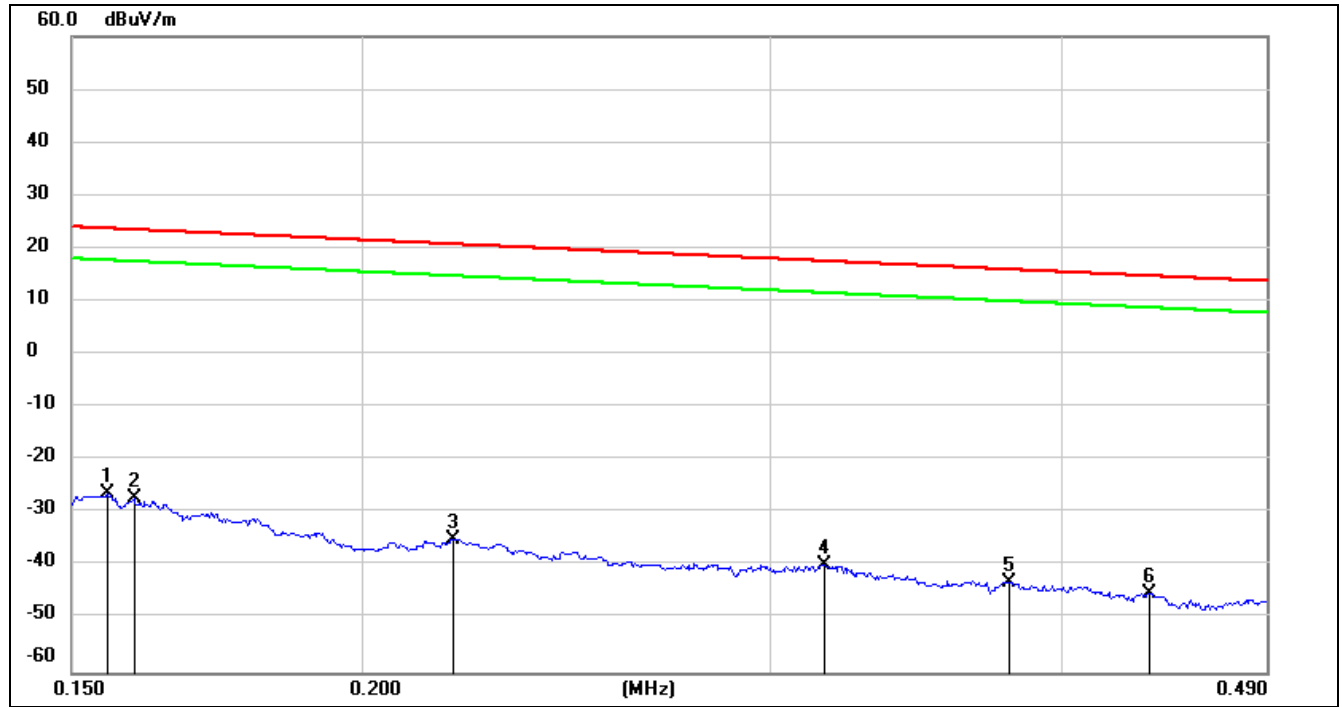
Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



**150 kHz ~ 490 kHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1554	75.27	-101.65	-26.38	23.77	-77.88	-27.73	-50.15	peak
2	0.1595	74.36	-101.65	-27.29	23.55	-78.79	-27.95	-50.84	peak
3	0.2190	66.77	-101.75	-34.98	20.79	-86.48	-30.71	-55.77	peak
4	0.3163	62.20	-101.87	-39.67	17.6	-91.17	-33.90	-57.27	peak
5	0.3800	59.02	-101.94	-42.92	16.01	-94.42	-35.49	-58.93	peak
6	0.4364	56.86	-101.99	-45.13	14.8	-96.63	-36.70	-59.93	peak

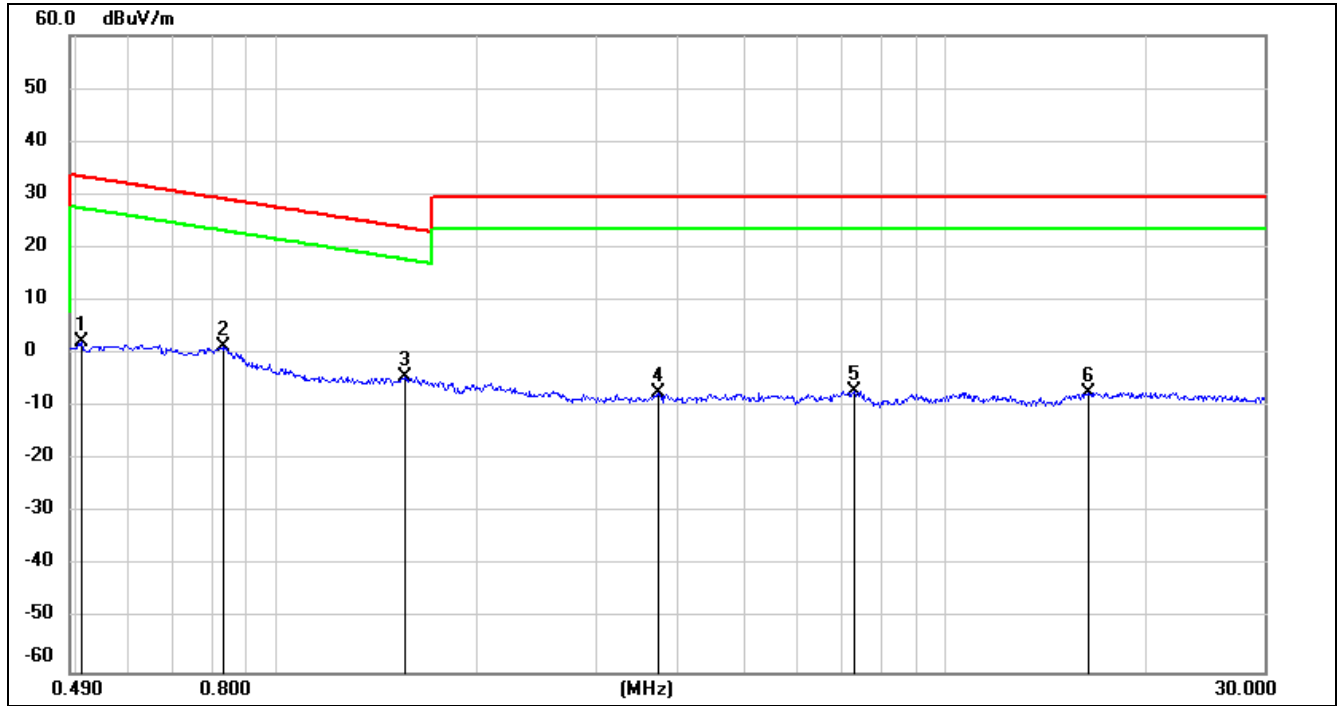
Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



**490 kHz ~ 30 MHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.5106	64.30	-62.07	2.23	33.44	-49.27	-18.06	-31.21	peak
2	0.8296	63.44	-62.17	1.27	29.23	-50.23	-22.27	-27.96	peak
3	1.5564	57.68	-62.02	-4.34	23.76	-55.84	-27.74	-28.10	peak
4	3.7100	54.20	-61.41	-7.21	29.54	-58.71	-21.96	-36.75	peak
5	7.3361	54.08	-61.17	-7.09	29.54	-58.59	-21.96	-36.63	peak
6	16.3959	53.67	-60.96	-7.29	29.54	-58.79	-21.96	-36.83	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the modes, channels and antennas had been tested, but only the worst data was recorded in the report.

## 9. AC POWER LINE CONDUCTED EMISSIONS

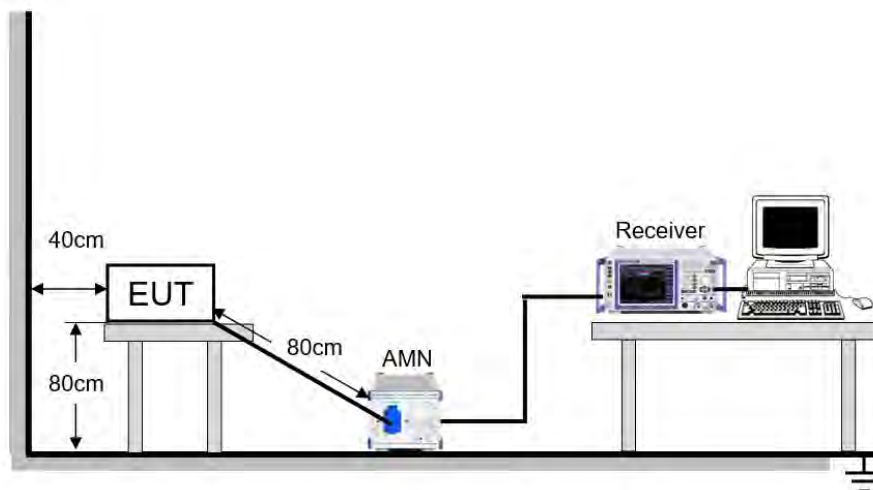
### LIMITS

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

### TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

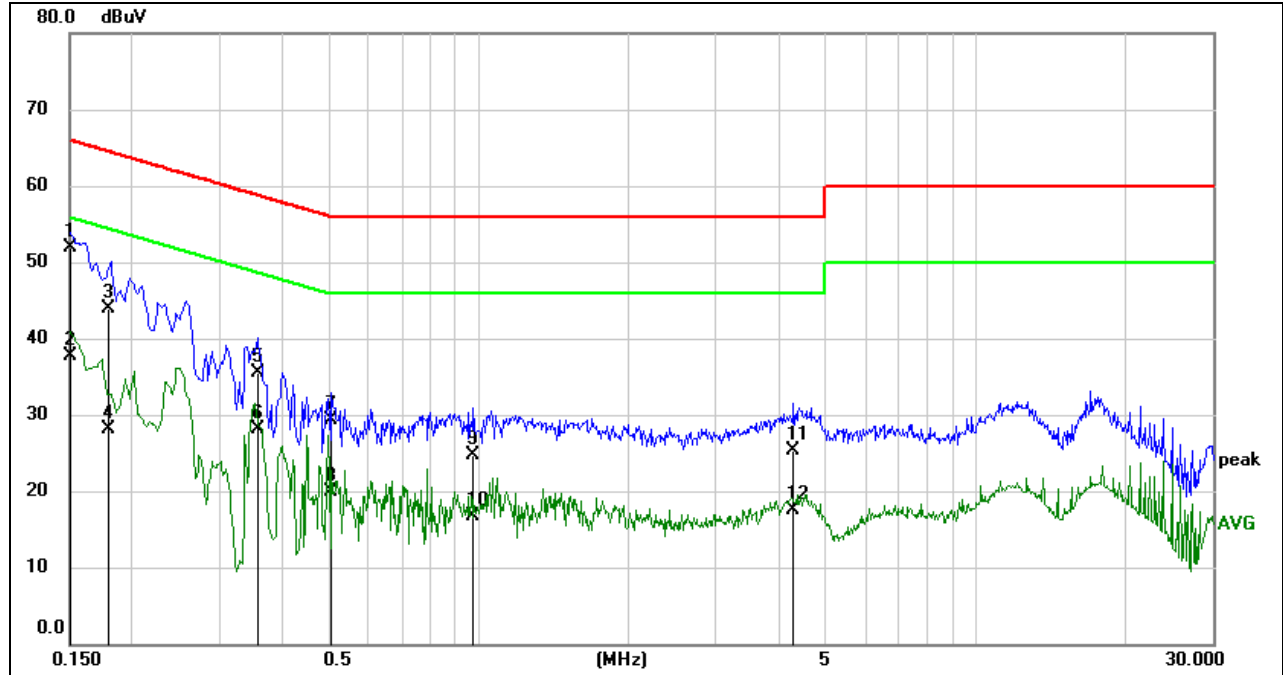
### TEST ENVIRONMENT

Temperature	25.2 °C	Relative Humidity	67.2 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

**RESULTS**

**9.1. 802.11n HT20 MODE**

**LINE L RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)**

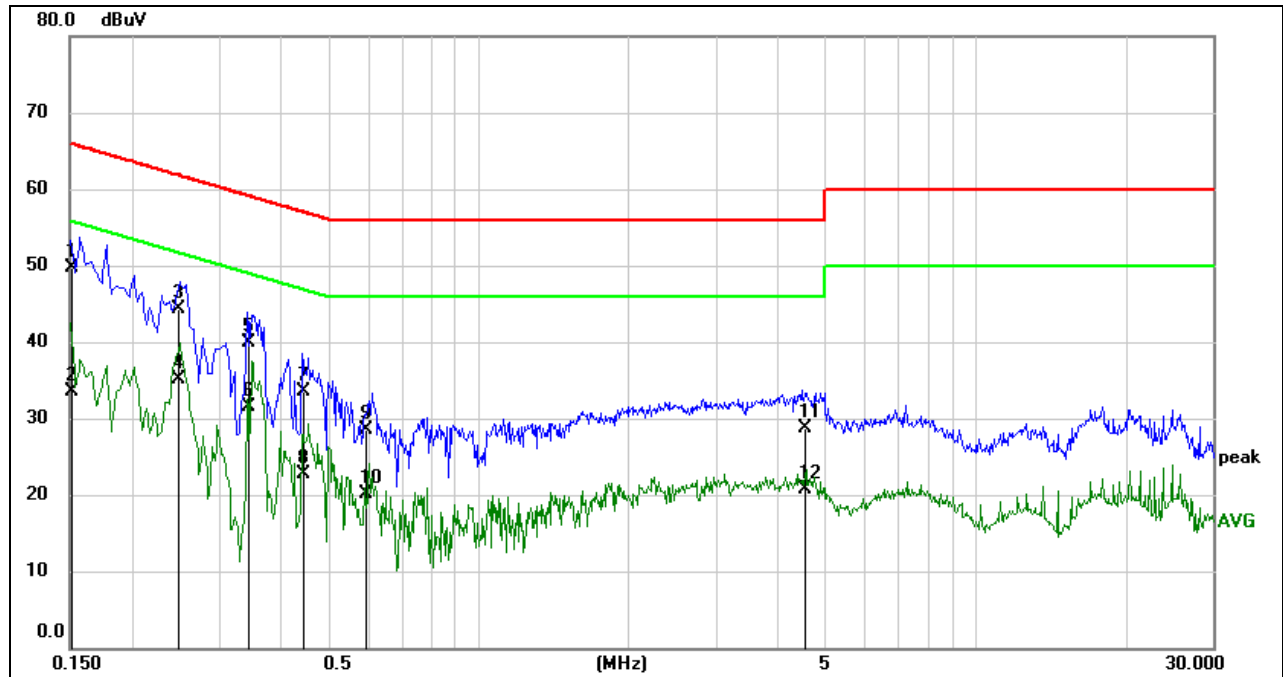


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1505	42.27	9.59	51.86	65.97	-14.11	QP
2	0.1505	28.18	9.59	37.77	55.97	-18.20	AVG
3	0.1792	34.29	9.59	43.88	64.52	-20.64	QP
4	0.1792	18.61	9.59	28.20	54.52	-26.32	AVG
5	0.3601	26.00	9.59	35.59	58.73	-23.14	QP
6	0.3601	18.55	9.59	28.14	48.73	-20.59	AVG
7	0.5057	19.62	9.60	29.22	56.00	-26.78	QP
8	0.5057	10.32	9.60	19.92	46.00	-26.08	AVG
9	0.9709	15.05	9.61	24.66	56.00	-31.34	QP
10	0.9709	7.09	9.61	16.70	46.00	-29.30	AVG
11	4.3229	15.61	9.60	25.21	56.00	-30.79	QP
12	4.3229	7.95	9.60	17.55	46.00	-28.45	AVG

- Note: 1. Result = Reading +Correct Factor.  
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).  
 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.



**LINE N RESULTS (MID CHANNEL, WORST-CASE CONFIGURATION)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1519	40.17	9.59	49.76	65.90	-16.14	QP
2	0.1519	23.93	9.59	33.52	55.90	-22.38	AVG
3	0.2477	34.77	9.59	44.36	61.83	-17.47	QP
4	0.2477	25.47	9.59	35.06	51.83	-16.77	AVG
5	0.3460	30.38	9.59	39.97	59.06	-19.09	QP
6	0.3460	21.95	9.59	31.54	49.06	-17.52	AVG
7	0.4456	23.87	9.60	33.47	56.96	-23.49	QP
8	0.4456	13.13	9.60	22.73	46.96	-24.23	AVG
9	0.5940	18.92	9.60	28.52	56.00	-27.48	QP
10	0.5940	10.52	9.60	20.12	46.00	-25.88	AVG
11	4.5398	19.19	9.61	28.80	56.00	-27.20	QP
12	4.5398	11.02	9.61	20.63	46.00	-25.37	AVG

- Note: 1. Result = Reading + Correct Factor.  
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).  
 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes and channels had been tested, but only the worst data was recorded in the report.



## 10. ANTENNA REQUIREMENTS

### APPLICABLE REQUIREMENTS

Please refer to FCC §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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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.

### RESULTS

Complies



## 11. Appendix

### 11.1. Appendix A: DTS Bandwidth

#### 11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.160	2407.920	2416.080	0.5	PASS
		2437	8.120	2432.920	2441.040	0.5	PASS
		2462	8.160	2457.920	2466.080	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.680	2453.160	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.760	2440.240	0.5	PASS
		2437	36.480	2418.760	2455.240	0.5	PASS
		2452	36.480	2433.760	2470.240	0.5	PASS
11AX20SISO	Ant1	2412	19.080	2402.480	2421.560	0.5	PASS
		2437	19.040	2427.480	2446.520	0.5	PASS
		2462	18.960	2452.520	2471.480	0.5	PASS
11AX40SISO	Ant1	2422	38.080	2402.960	2441.040	0.5	PASS
		2437	38.080	2417.880	2455.960	0.5	PASS
		2452	38.160	2432.880	2471.040	0.5	PASS



### 11.1.2. Test Graphs

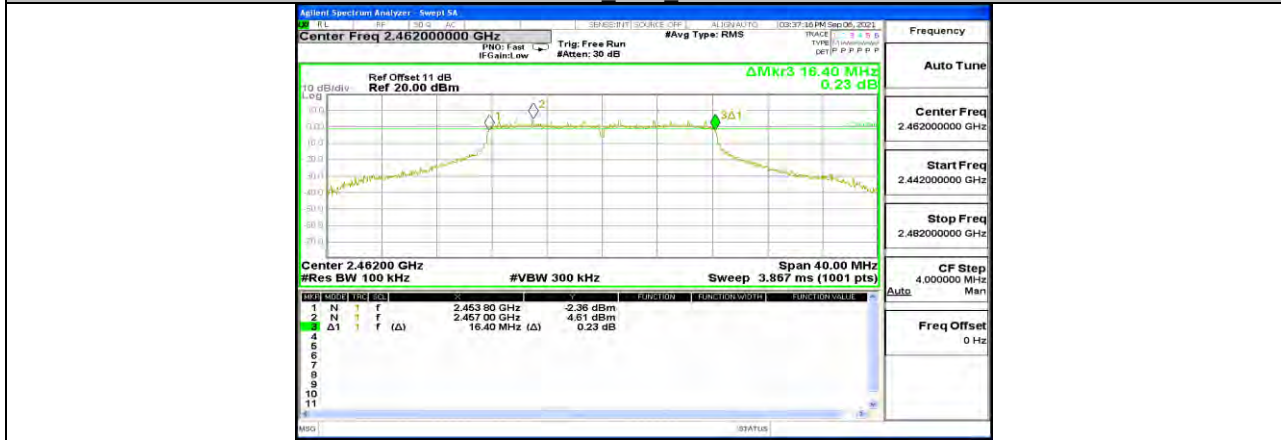




11G Ant1 2412



11G Ant1 2437



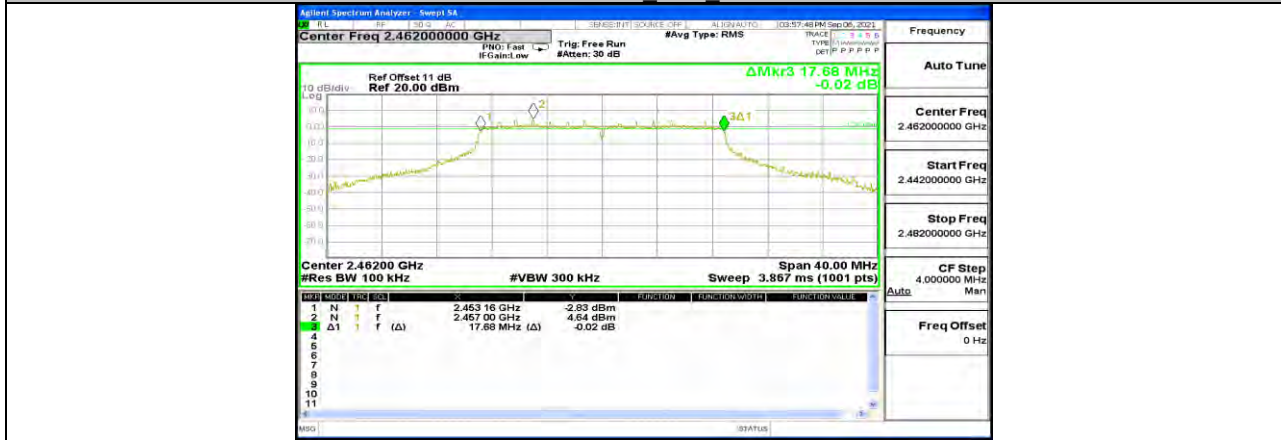
11G Ant1 2462



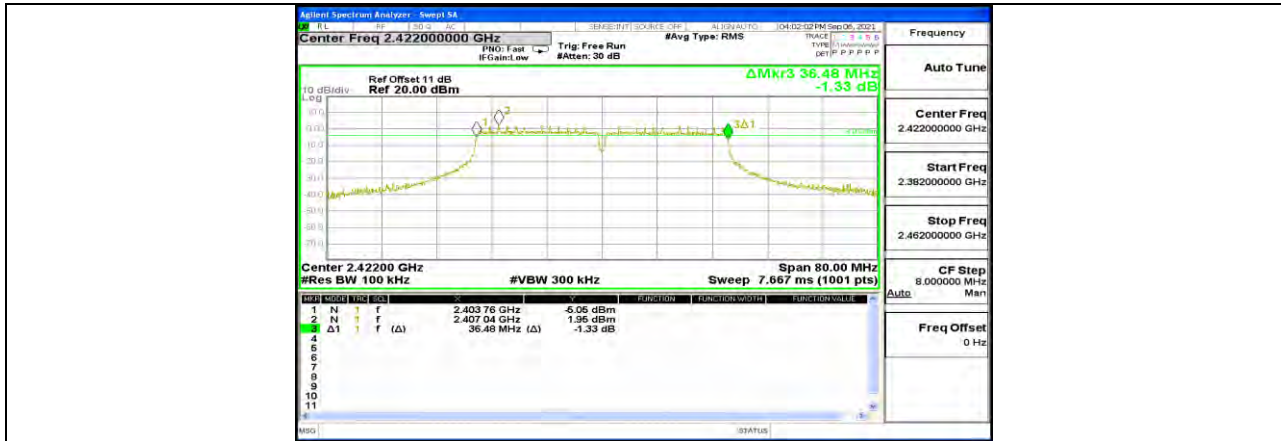
11N20SISO Ant1 2412



11N20SISO Ant1 2437



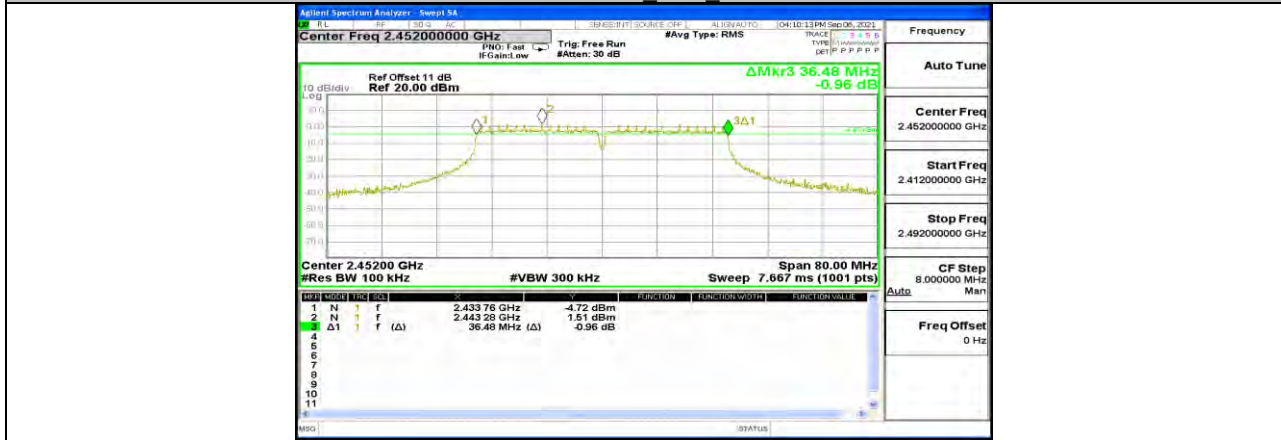
11N20SISO Ant1 2462



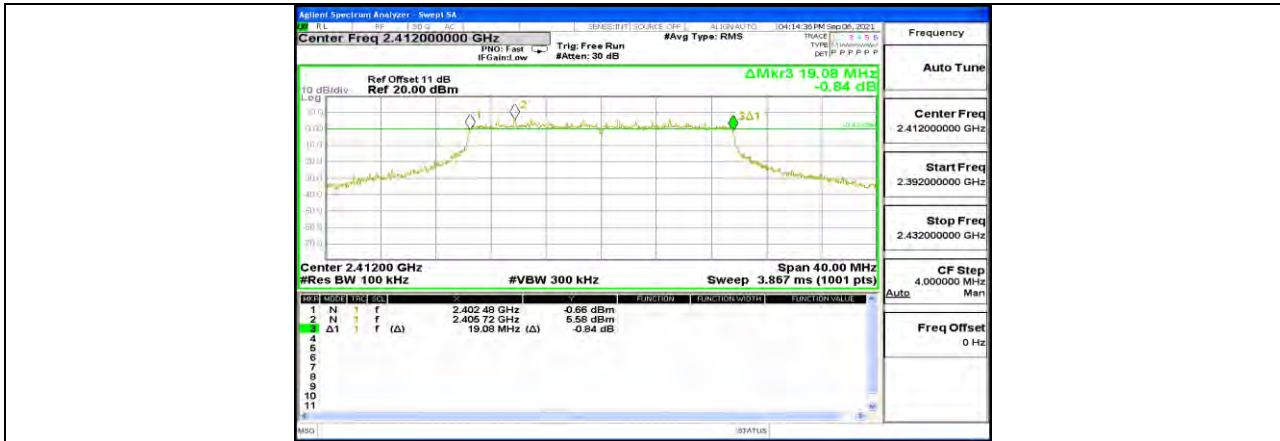
11N40SISO Ant1 2422



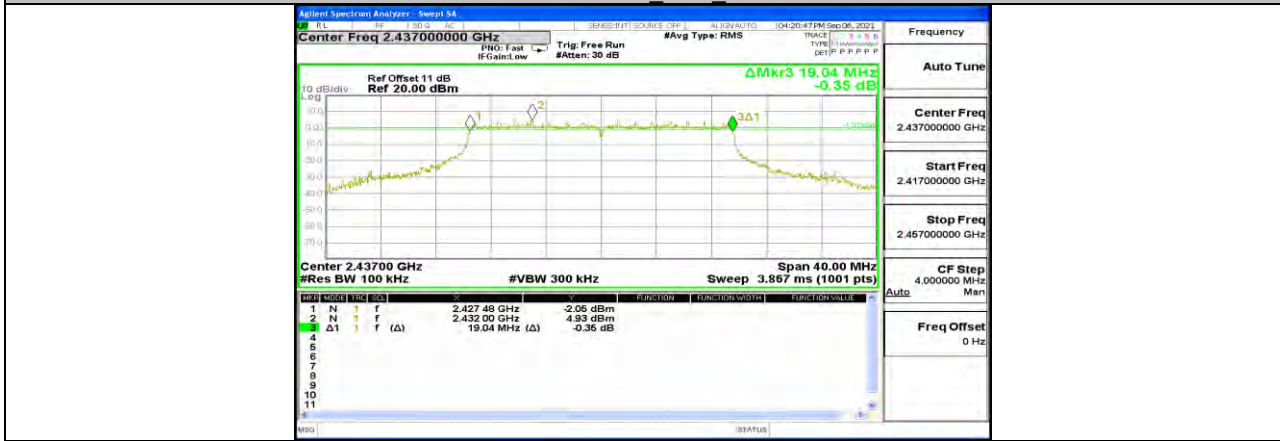
11N40SISO Ant1 2437



11N40SISO Ant1 2452



11AX20SISO Ant1 2412



11AX20SISO Ant1 2437



11AX20SISO Ant1 2462





11AX40SISO Ant1 2422



11AX40SISO Ant1 2437



11AX40SISO Ant1 2452

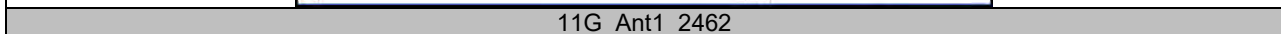
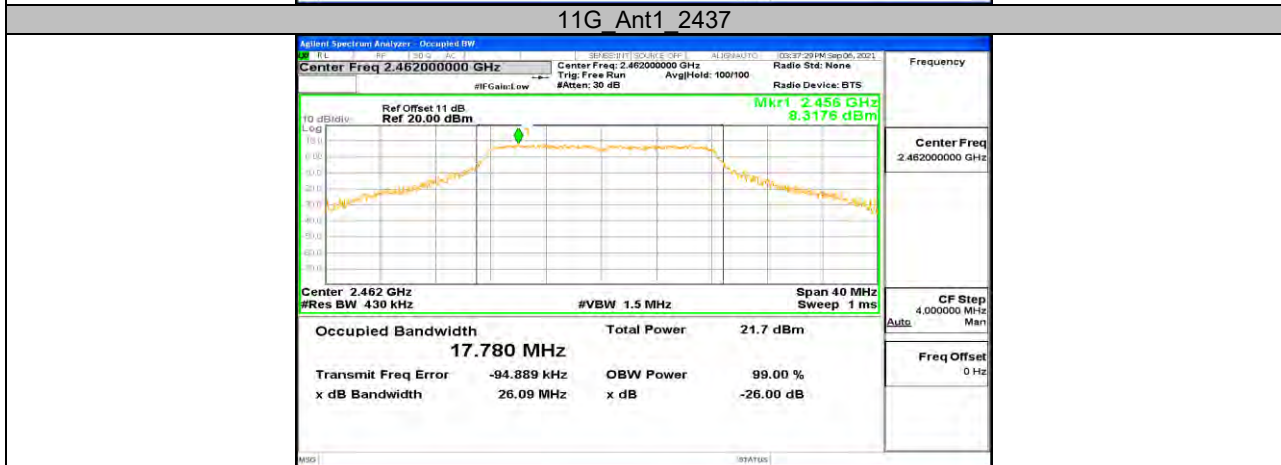
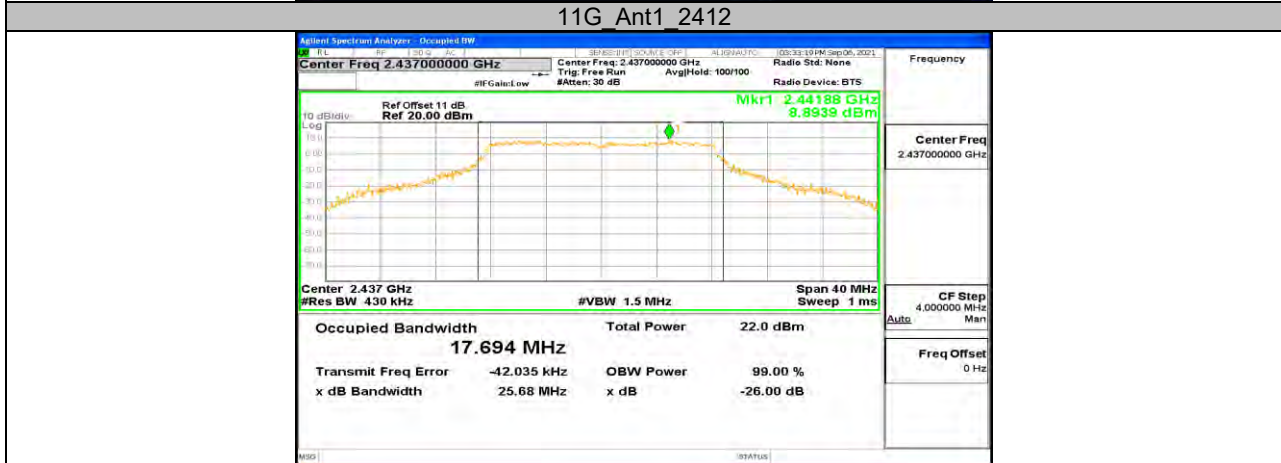
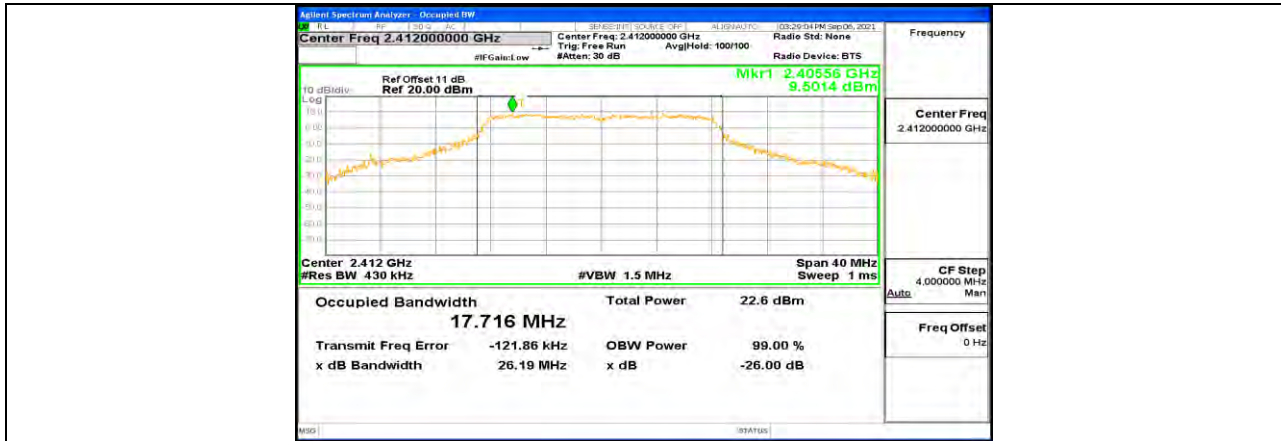
**11.2. Appendix B: Occupied Channel Bandwidth****11.2.1. Test Result**

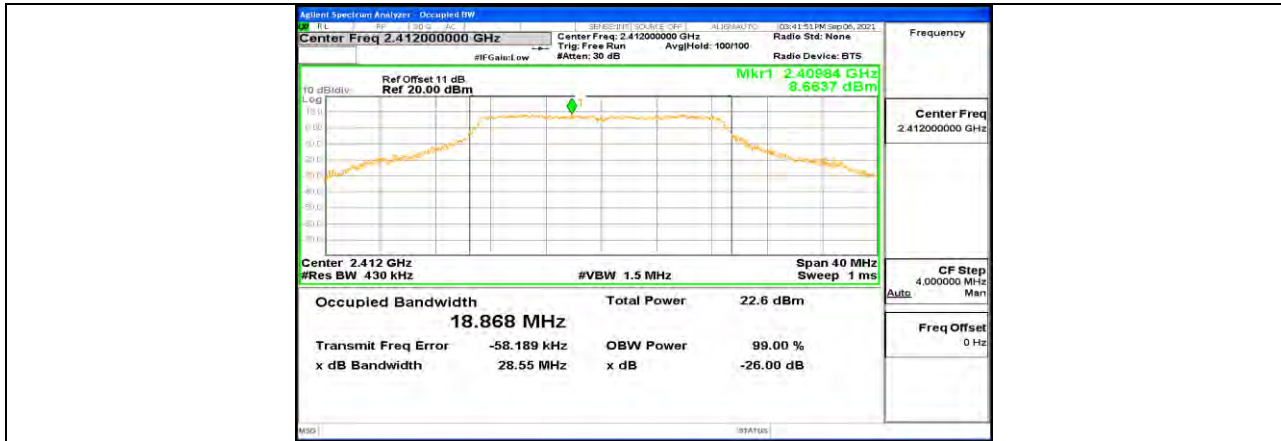
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	12.558	2405.699	2418.257	PASS
		2437	12.534	2430.733	2443.267	PASS
		2462	12.517	2455.752	2468.269	PASS
11G	Ant1	2412	17.716	2403.020	2420.736	PASS
		2437	17.694	2428.111	2445.805	PASS
		2462	17.780	2453.015	2470.795	PASS
11N20SISO	Ant1	2412	18.868	2402.508	2421.376	PASS
		2437	18.997	2427.435	2446.432	PASS
		2462	18.943	2452.529	2471.472	PASS
11N40SISO	Ant1	2422	37.375	2403.188	2440.563	PASS
		2437	37.189	2418.322	2455.511	PASS
		2452	37.154	2433.359	2470.513	PASS
11AX20SISO	Ant1	2412	19.536	2402.216	2421.752	PASS
		2437	19.360	2427.322	2446.682	PASS
		2462	19.462	2452.302	2471.764	PASS
11AX40SISO	Ant1	2422	38.352	2402.724	2441.076	PASS
		2437	38.466	2417.649	2456.115	PASS
		2452	38.241	2432.810	2471.051	PASS



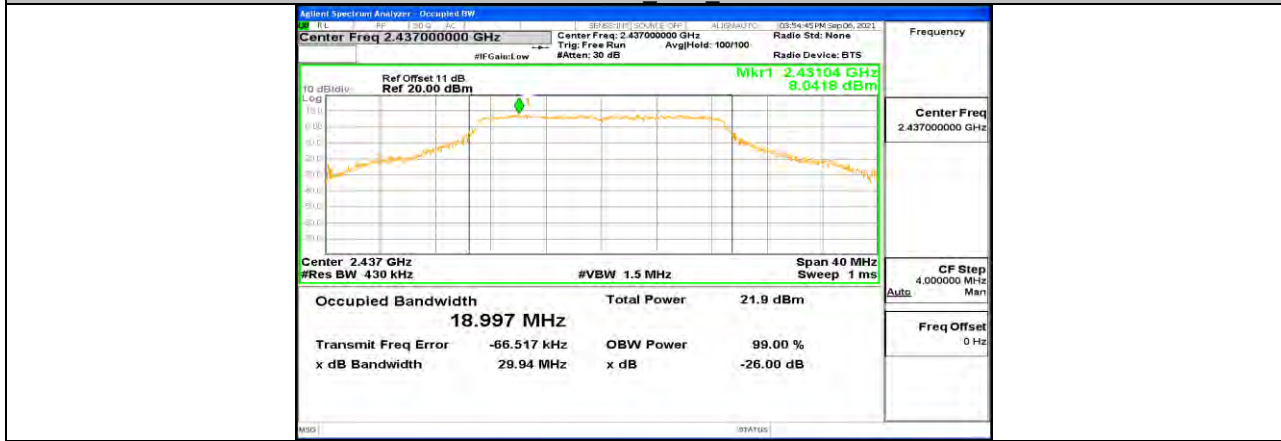
### 11.2.2. Test Graphs



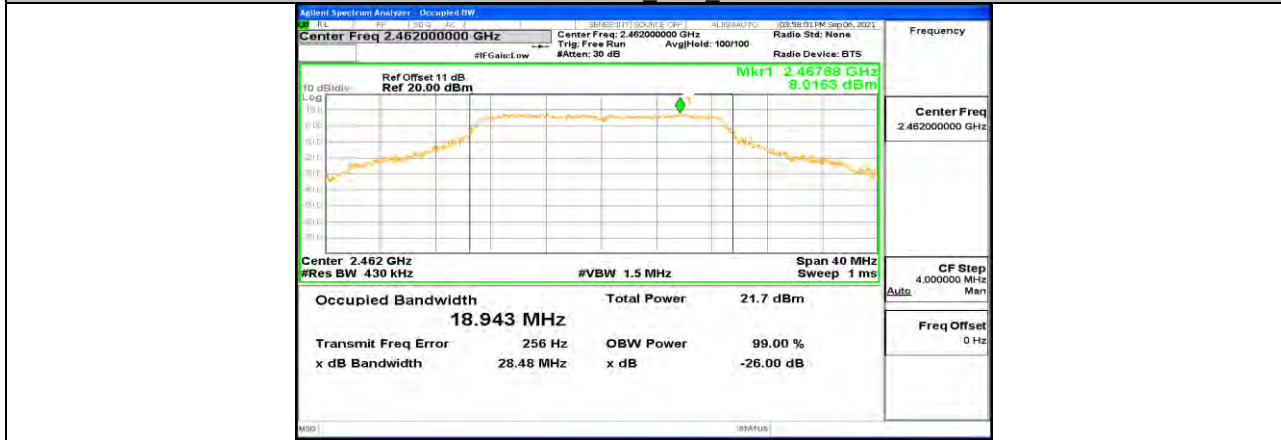




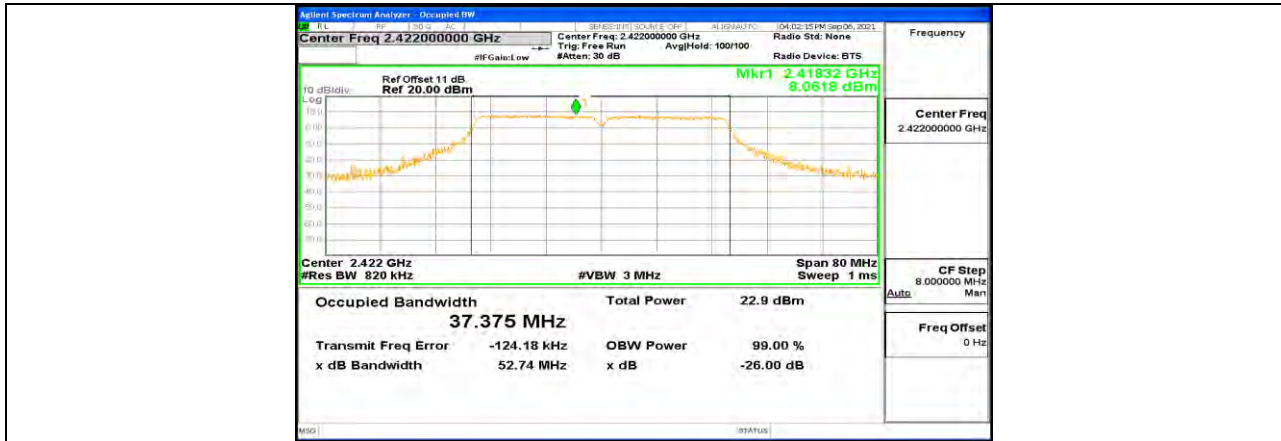
11N20SISO Ant1 2412

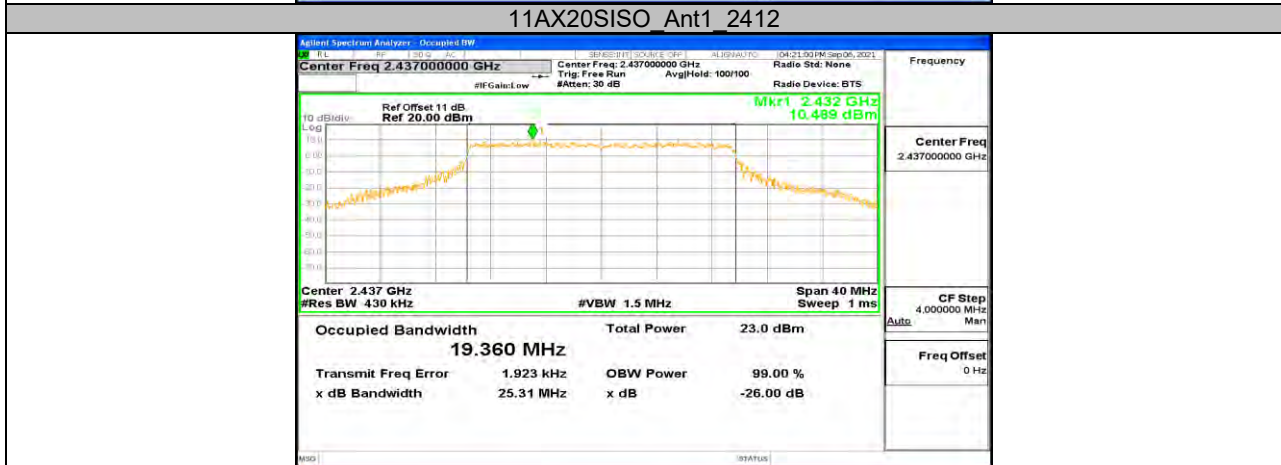
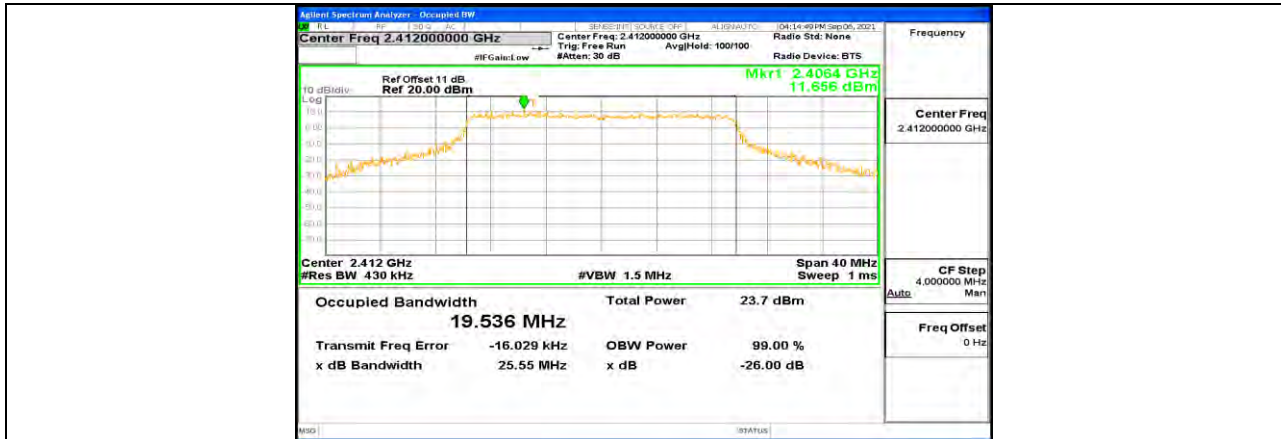


11N20SISO Ant1 2437

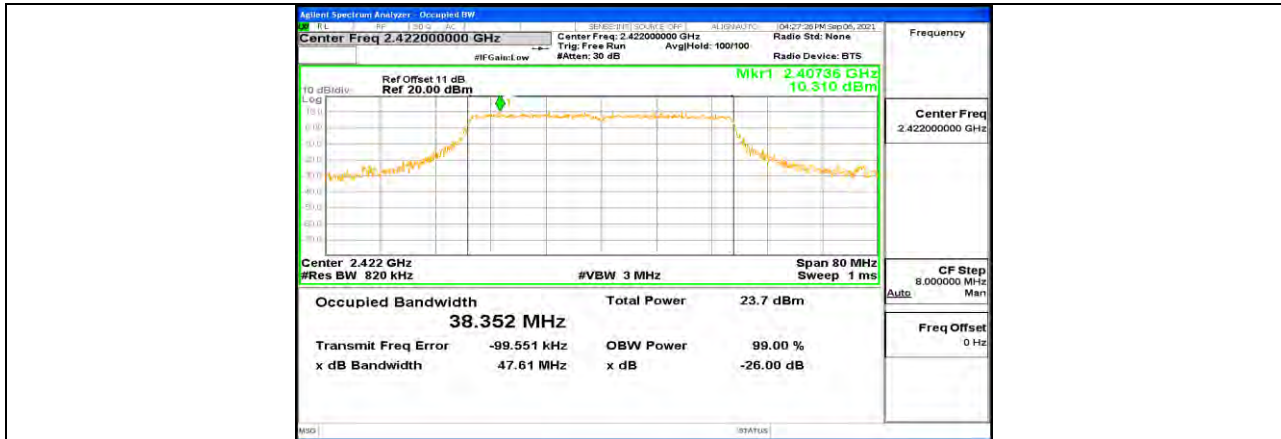


11N20SISO Ant1 2462

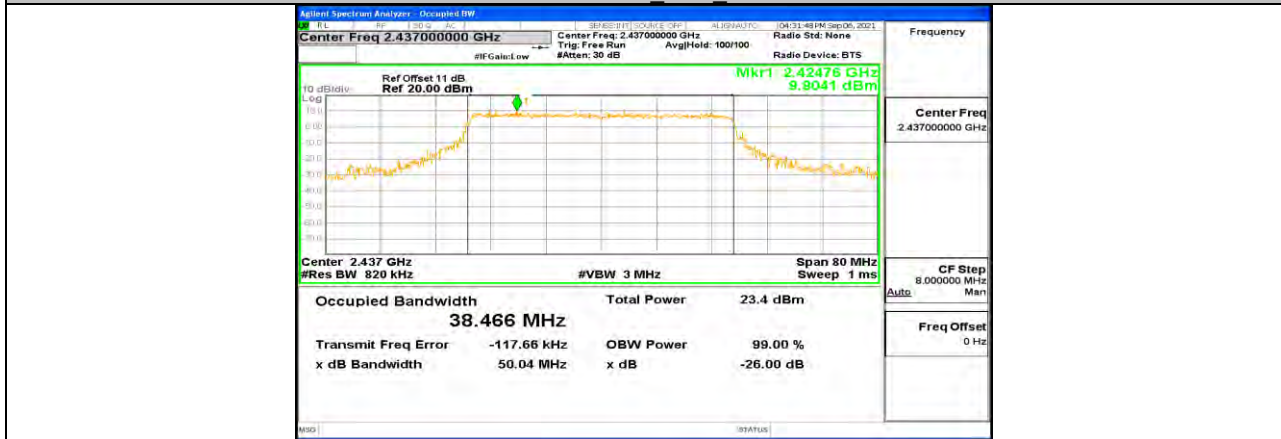




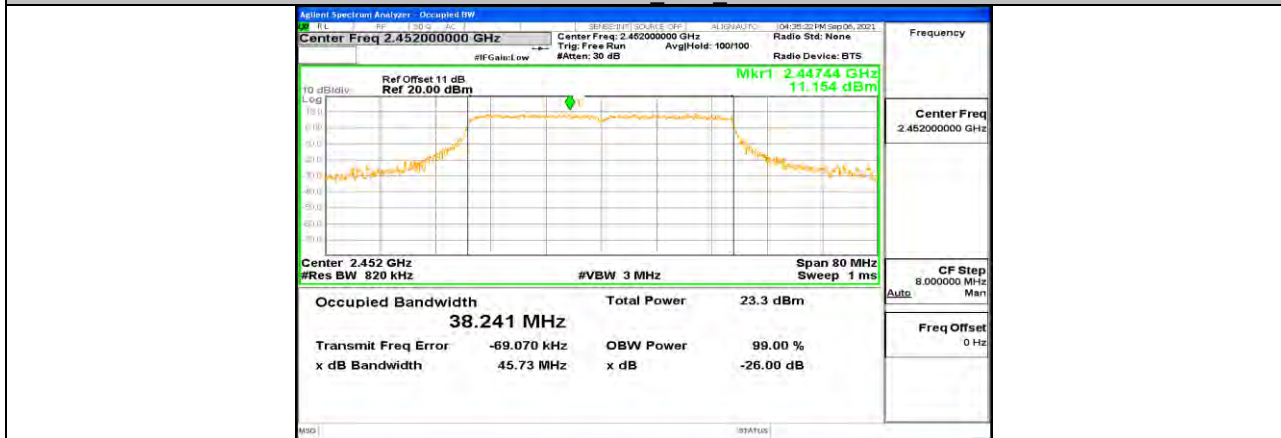
**11AX20SISO Ant1 2462**



11AX40SISO Ant1 2422



11AX40SISO Ant1 2437



11AX40SISO Ant1 2452





### 11.3. Appendix C: Maximum Average Conducted Output Power

#### 11.3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.63	≤30	PASS
		2437	8.23	≤30	PASS
		2462	7.98	≤30	PASS
11G	Ant1	2412	5.90	≤30	PASS
		2437	5.97	≤30	PASS
		2462	5.49	≤30	PASS
11N20SISO	Ant1	2412	12.73	≤30	PASS
		2437	12.44	≤30	PASS
		2462	12.67	≤30	PASS
11N40SISO	Ant1	2422	12.16	≤30	PASS
		2437	11.79	≤30	PASS
		2452	12.66	≤30	PASS
11AX20SISO	Ant1	2412	12.73	≤30	PASS
		2437	10.81	≤30	PASS
		2462	11.65	≤30	PASS
11AX40SISO	Ant1	2422	12.15	≤30	PASS
		2437	10.69	≤30	PASS
		2452	11.59	≤30	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor  
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.



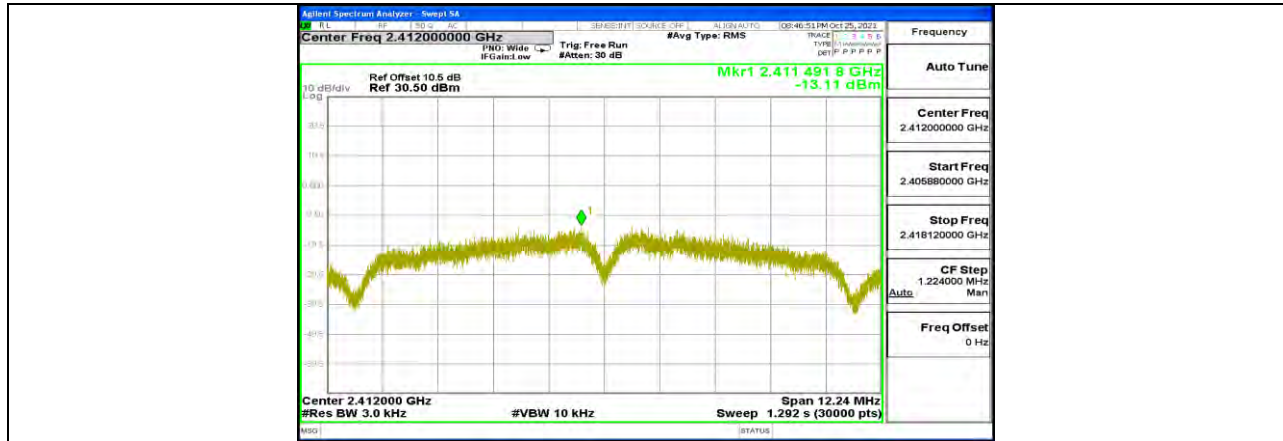
## 11.4. Appendix D: Maximum Power Spectral Density

### 11.4.1. Test Result

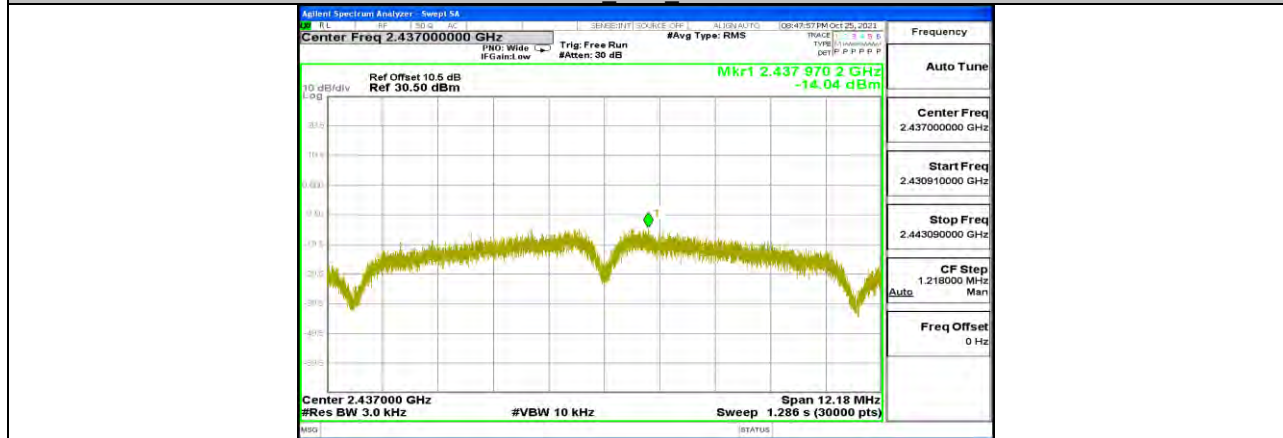
Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.11	≤8	PASS
		2437	-14.04	≤8	PASS
		2462	-14.31	≤8	PASS
11G	Ant1	2412	-18.57	≤8	PASS
		2437	-18.91	≤8	PASS
		2462	-19.23	≤8	PASS
11N20SISO	Ant1	2412	-12.53	≤8	PASS
		2437	-12.03	≤8	PASS
		2462	-11.88	≤8	PASS
11N40SISO	Ant1	2422	-14.93	≤8	PASS
		2437	-14.69	≤8	PASS
		2452	-14.54	≤8	PASS
11AX20SISO	Ant1	2412	-12.11	≤8	PASS
		2437	-13.2	≤8	PASS
		2462	-13.11	≤8	PASS
11AX40SISO	Ant1	2422	-15.25	≤8	PASS
		2437	-15.63	≤8	PASS
		2452	-16.09	≤8	PASS



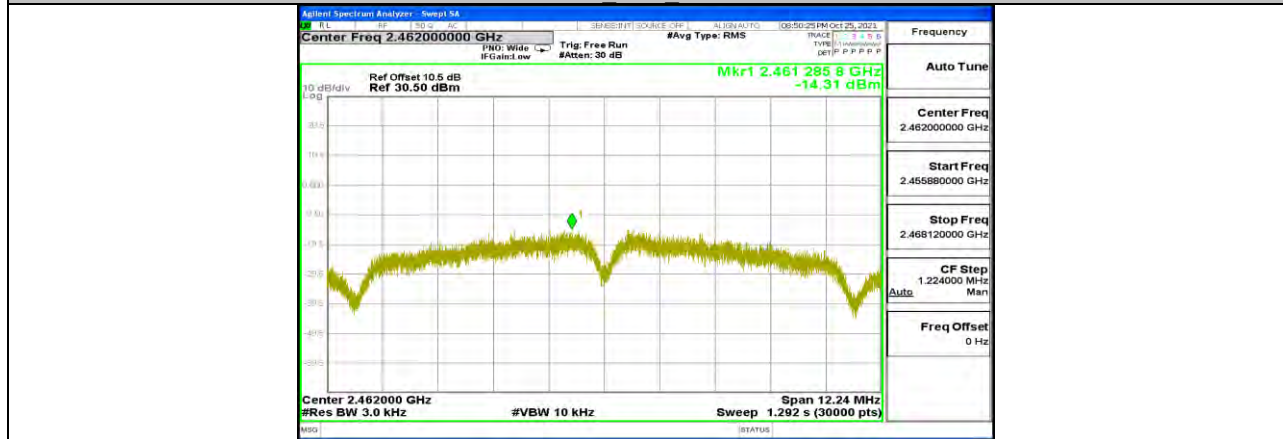
### 11.4.2. Test Graphs



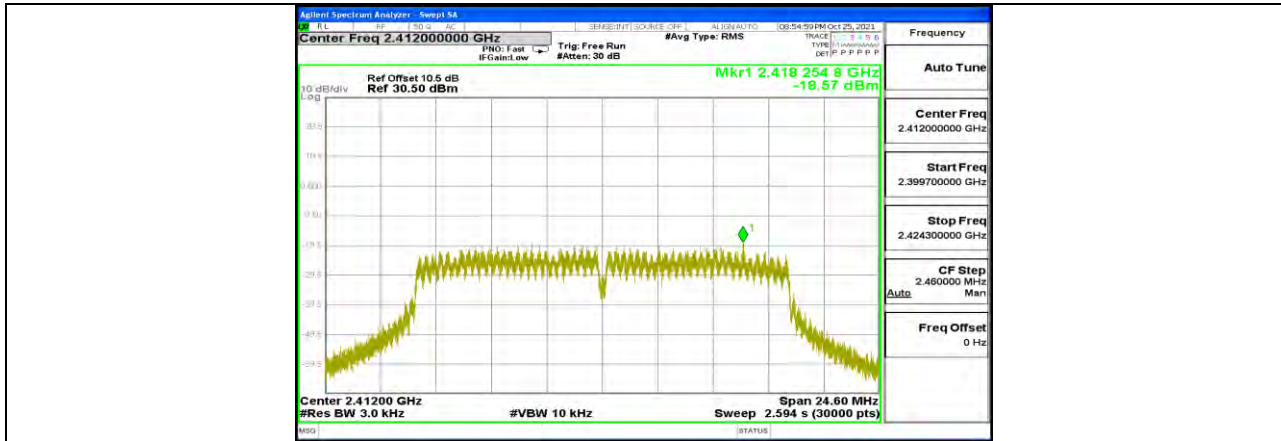
11B Ant1 2412

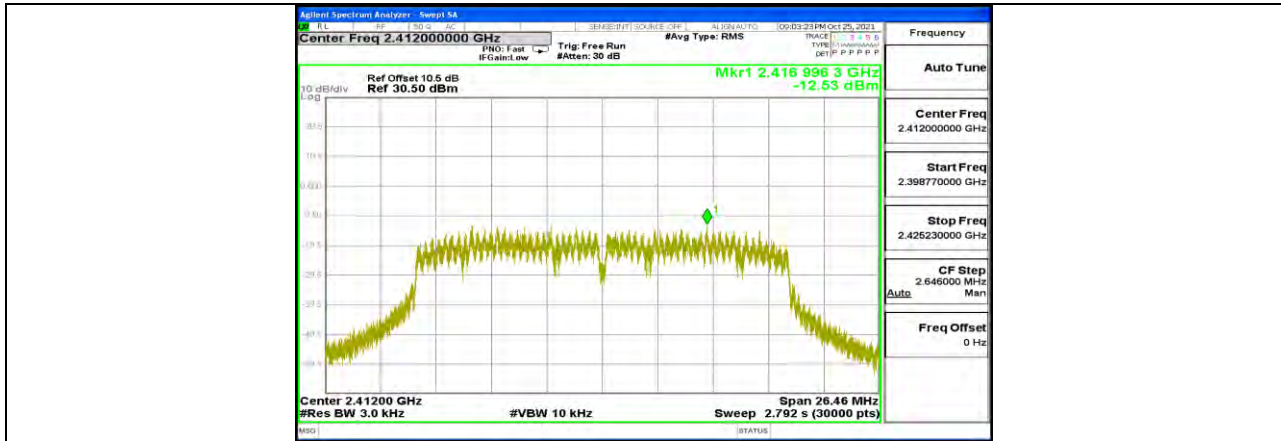


11B Ant1 2437

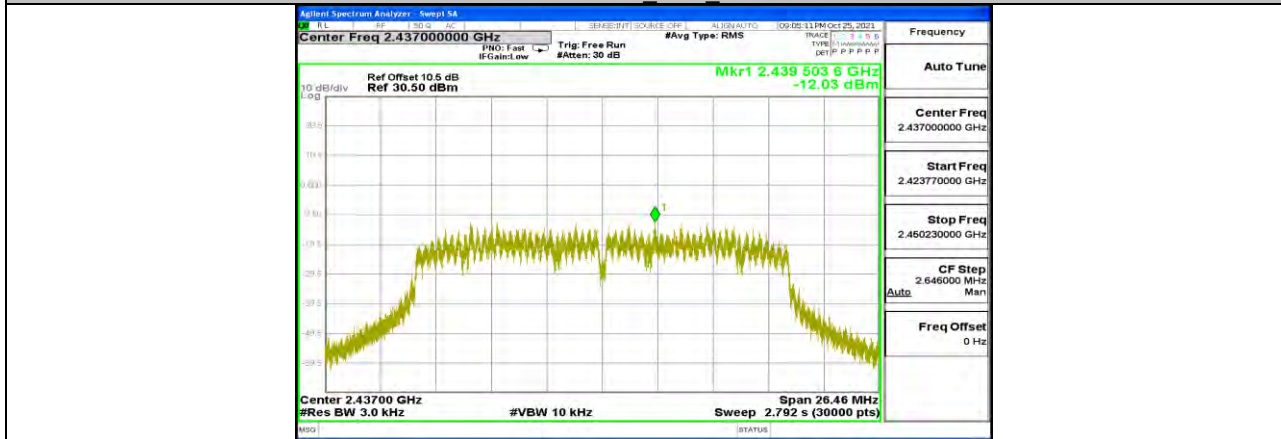


11B Ant1 2462

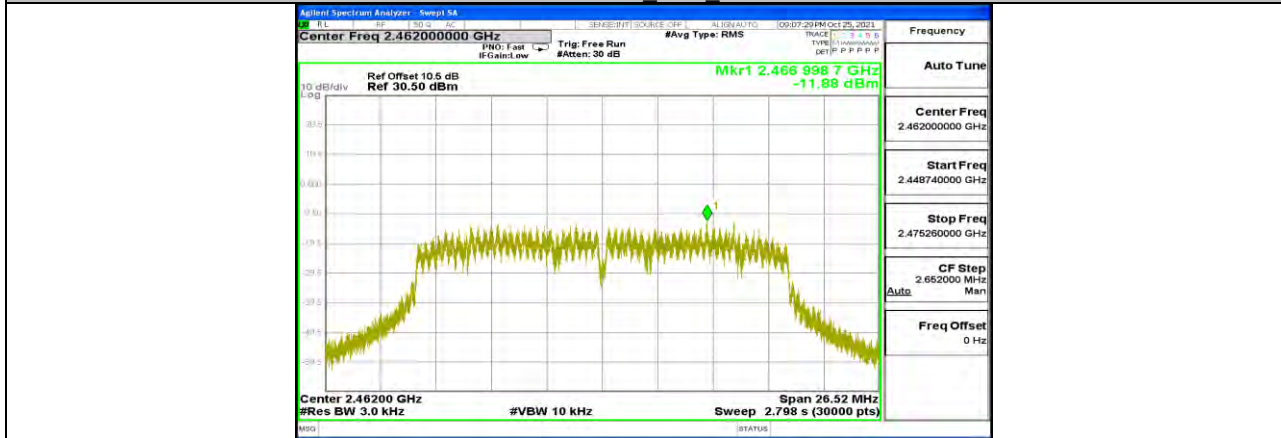




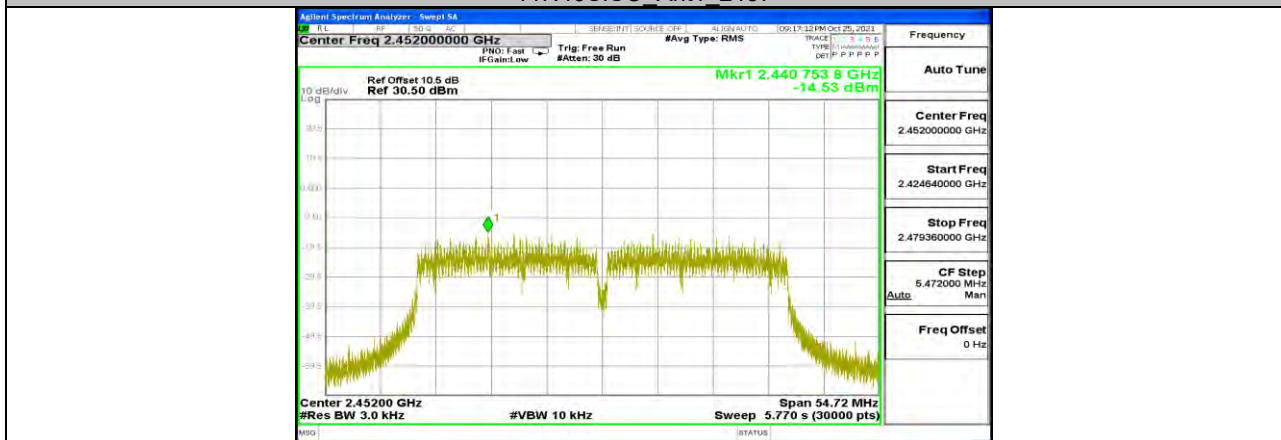
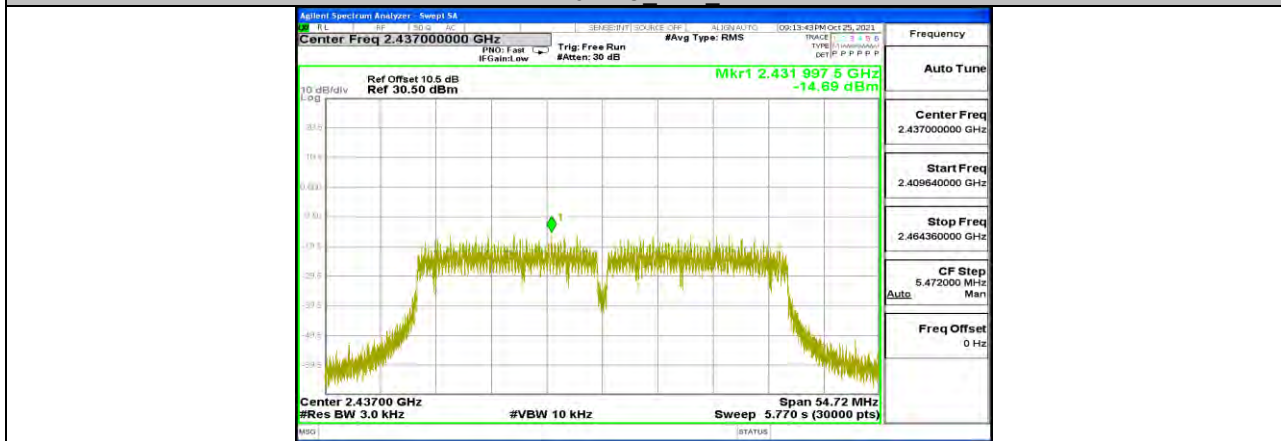
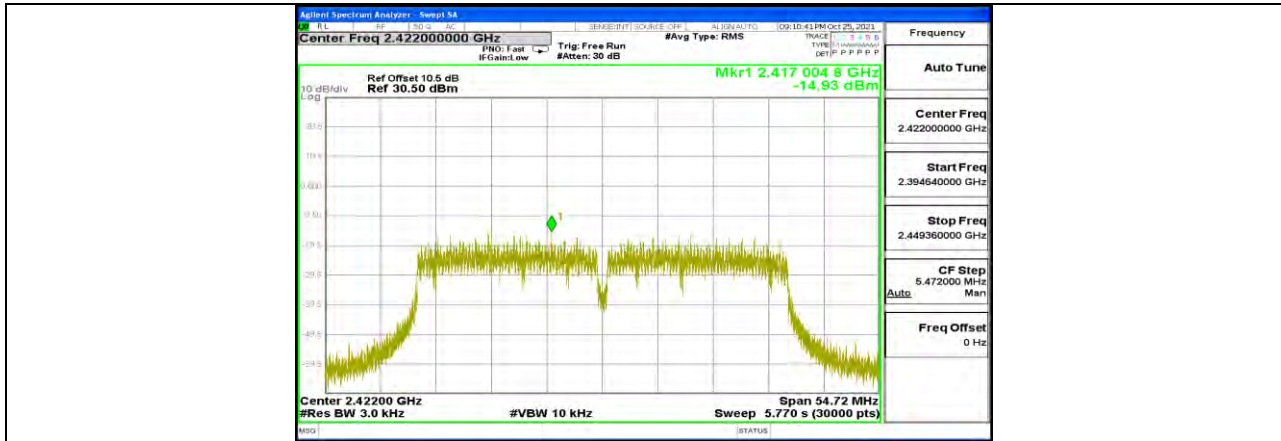
11N20SISO Ant1 2412

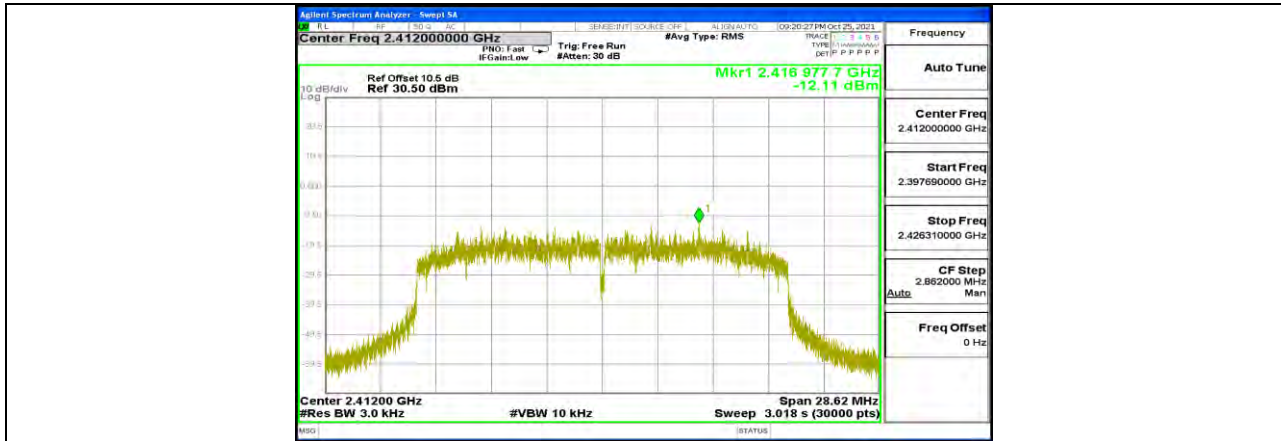


11N20SISO Ant1 2437

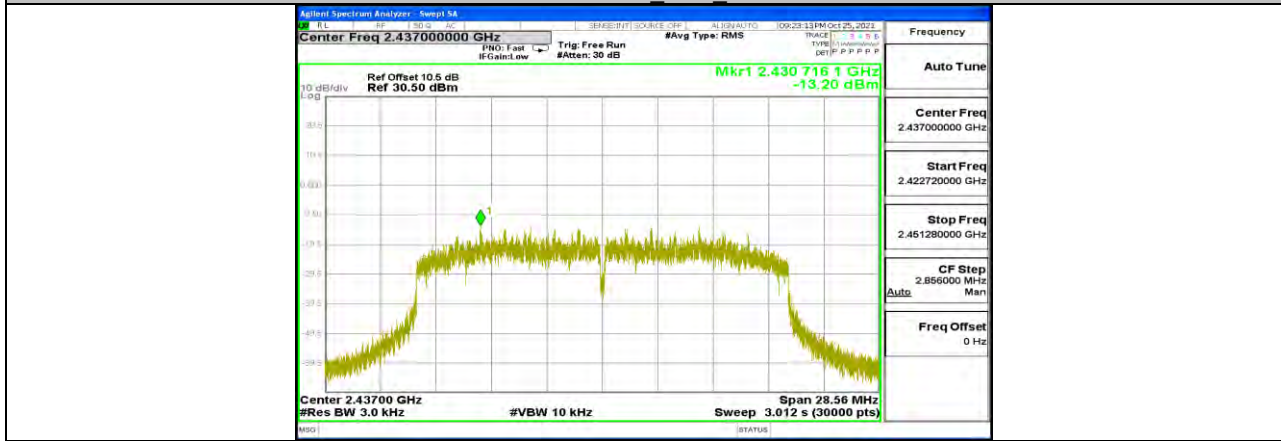


11N20SISO Ant1 2462

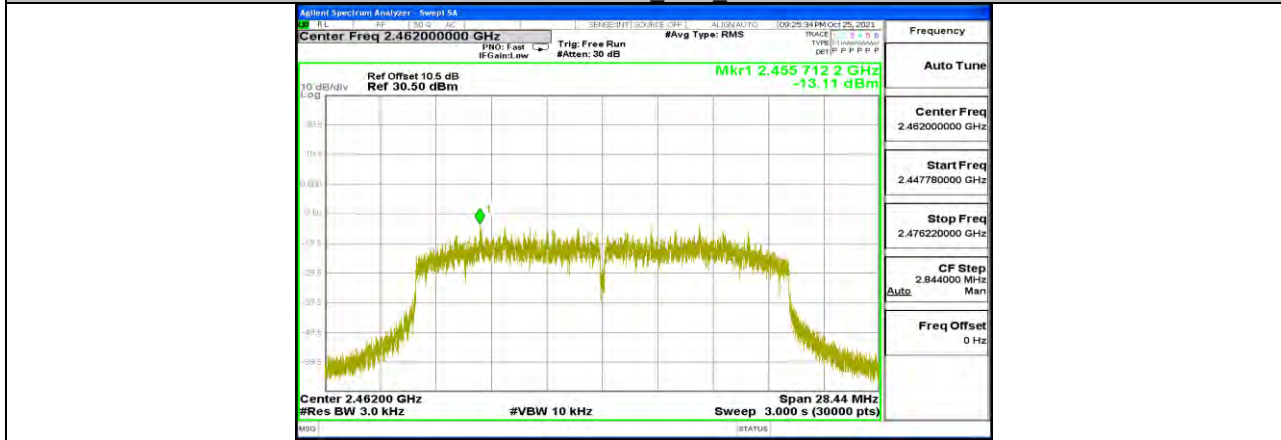




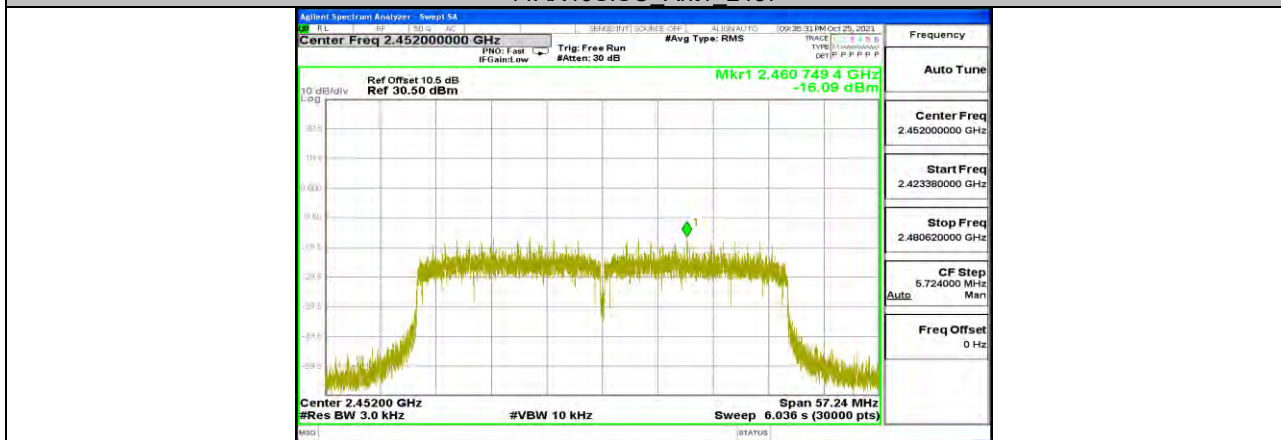
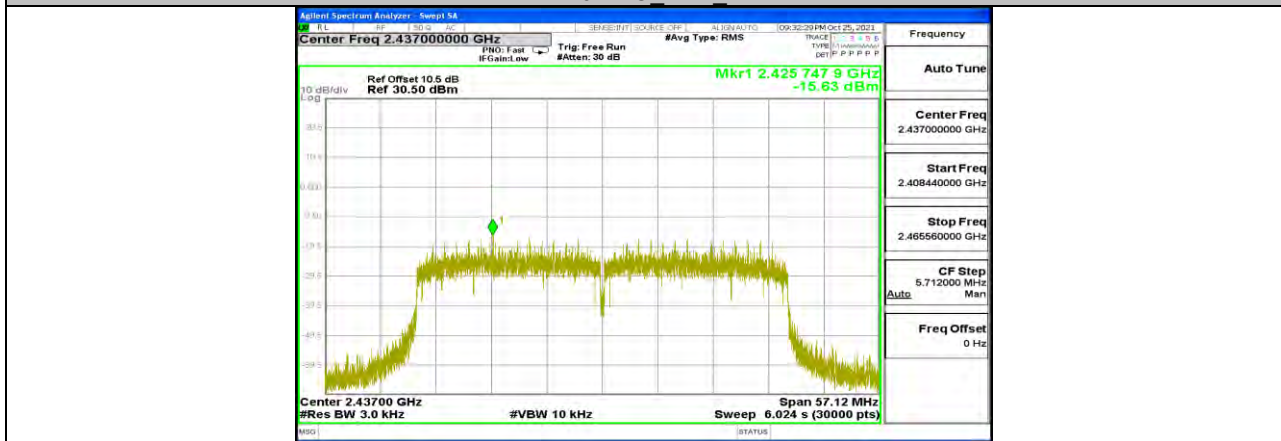
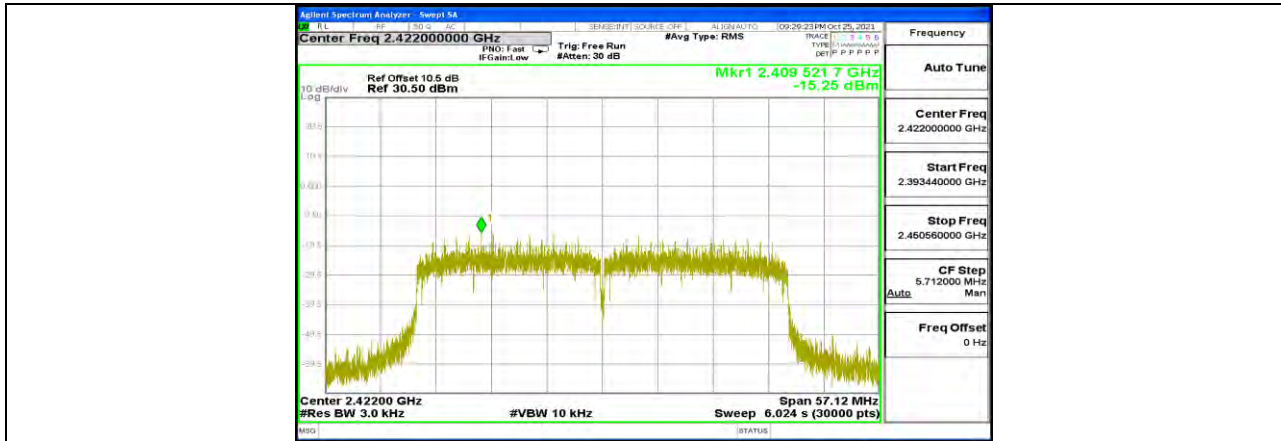
11AX20SISO Ant1 2412



11AX20SISO Ant1 2437



11AX20SISO Ant1 2462







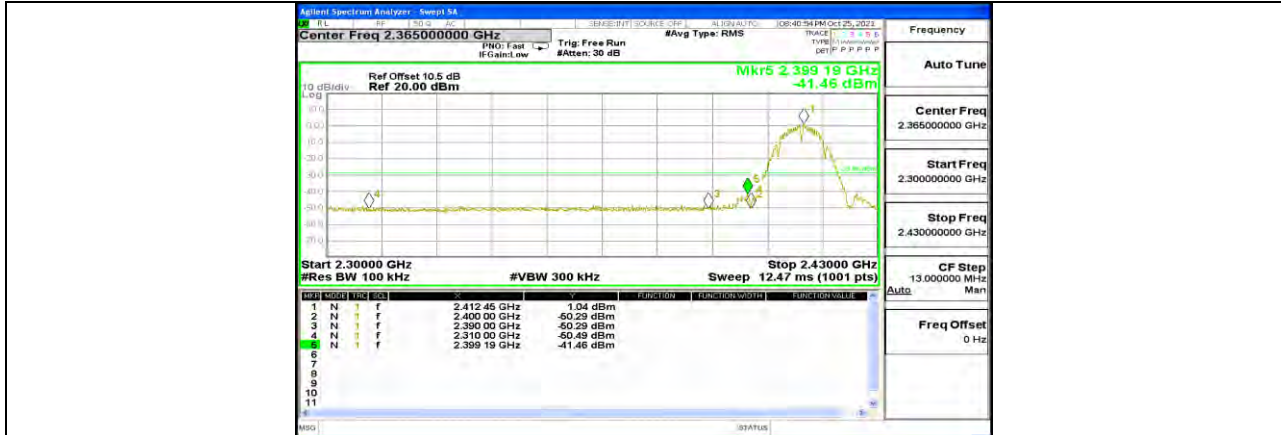
## 11.5. Appendix E: Band Edge Measurements

### 11.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.04	-41.46	≤-28.96	PASS
		High	2462	0.10	-48.06	≤-29.9	PASS
11G	Ant1	Low	2412	-4.70	-38.6	≤-34.7	PASS
		High	2462	-5.49	-48.19	≤-35.49	PASS
11N20SISO	Ant1	Low	2412	2.10	-33.28	≤-27.9	PASS
		High	2462	1.94	-46.41	≤-28.06	PASS
11N40SISO	Ant1	Low	2422	-1.79	-35.02	≤-31.79	PASS
		High	2452	-1.38	-39.3	≤-31.38	PASS
11AX20SISO	Ant1	Low	2412	2.06	-33.04	≤-27.94	PASS
		High	2462	0.91	-48.16	≤-29.09	PASS
11AX40SISO	Ant1	Low	2422	-1.88	-32.75	≤-31.88	PASS
		High	2452	-2.55	-41.9	≤-32.55	PASS



### 11.5.2. Test Graphs



11B Ant1 Low 2412



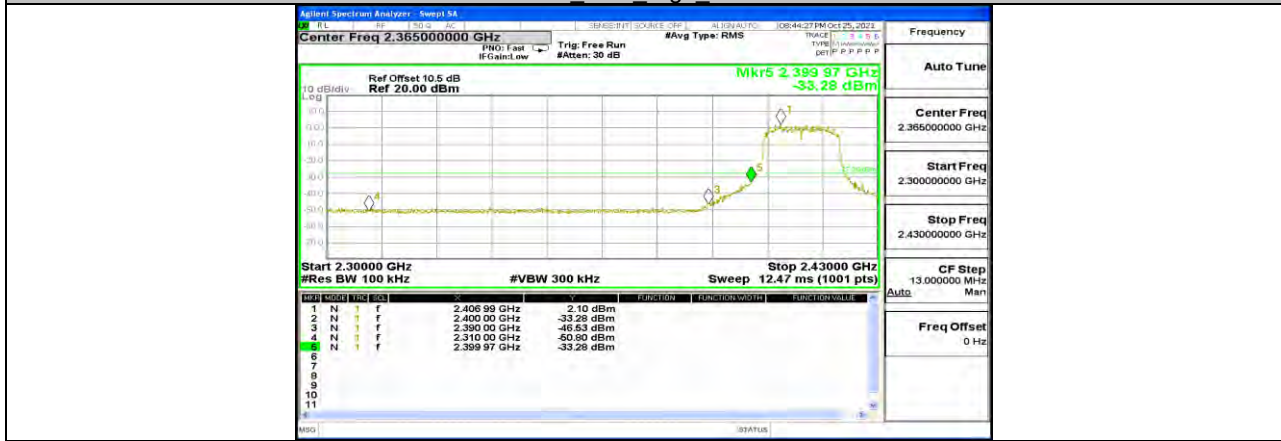
11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462



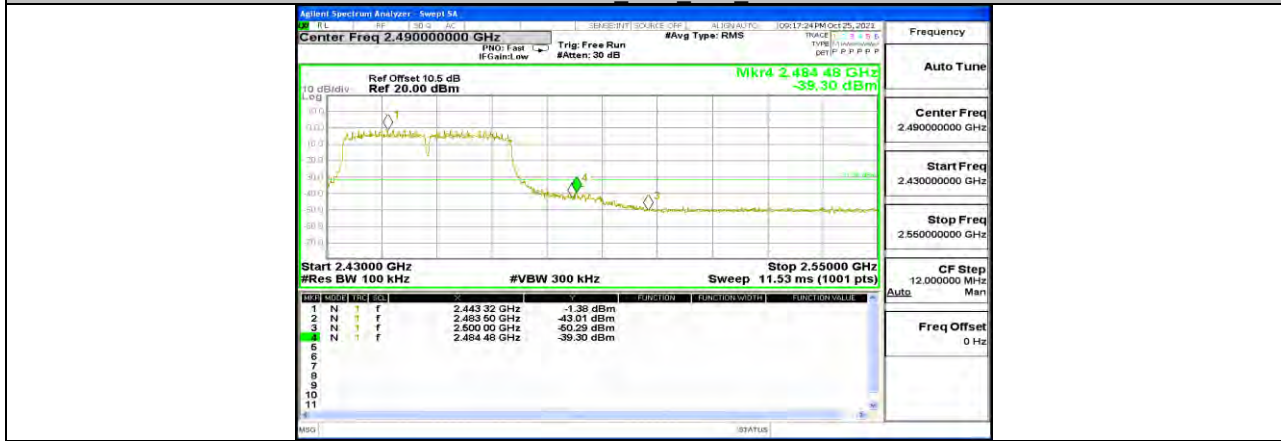
11N20SISO Ant1 Low 2412



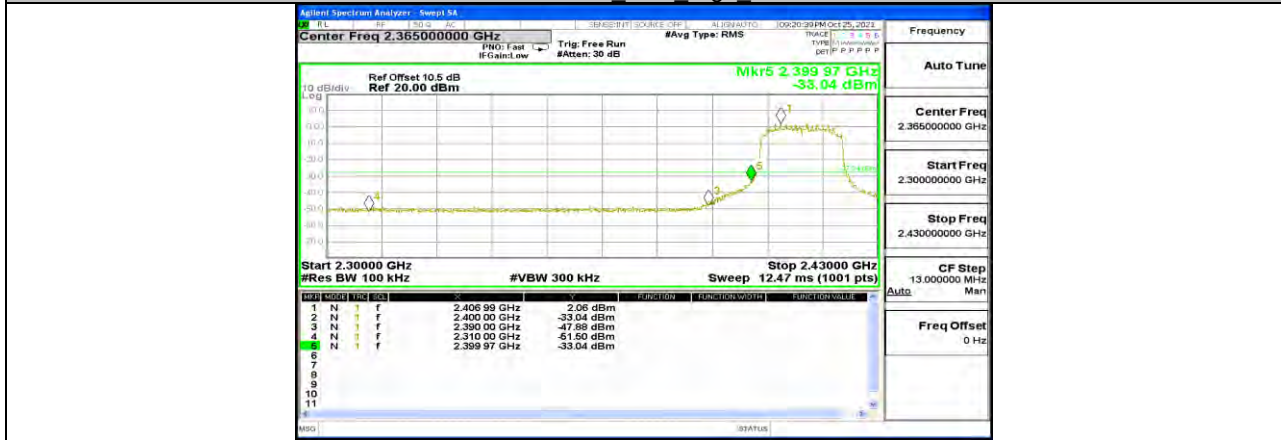
11N20SISO Ant1 High 2462



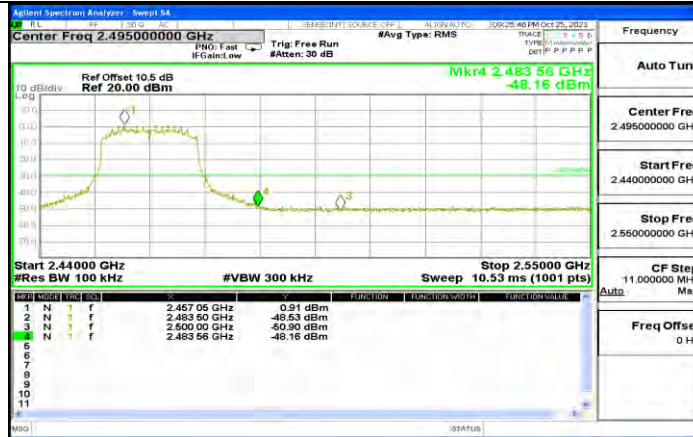
11N40SISO Ant1 Low 2422



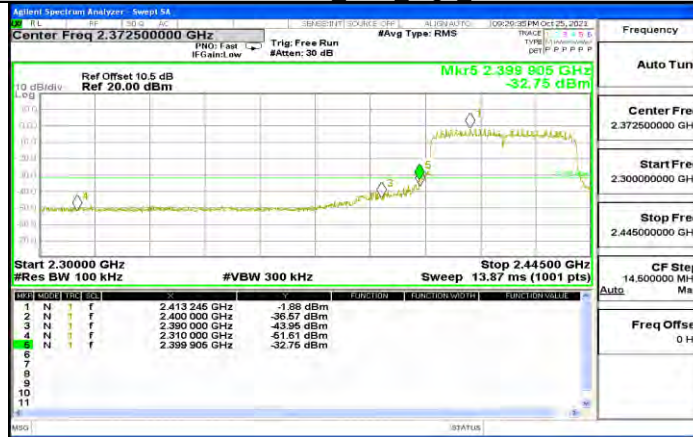
11N40SISO Ant1 High 2452



11AX20SISO Ant1 Low 2412



11AX20SISO Ant1 High 2462



11AX40SISO Ant1 Low 2422



11AX40SISO Ant1 High 2452

**11.6. Appendix F: Conducted Spurious Emission****11.6.1. Test Result**

Test Mode	Antenna	Channel	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	0.87	---	PASS	
			30~1000	-57.94	≤-29.14	PASS	
			1000~26500	-43.65	≤-29.14	PASS	
		2437	Ant1	Reference	-0.22	---	PASS
				30~1000	-58.38	≤-30.22	PASS
				1000~26500	-43.78	≤-30.22	PASS
		2462	Ant1	Reference	-0.34	---	PASS
				30~1000	-57.67	≤-30.34	PASS
				1000~26500	-45.98	≤-30.34	PASS
11G	Ant1	2412	Reference	-4.78	---	PASS	
			30~1000	-58.37	≤-34.78	PASS	
			1000~26500	-47.19	≤-34.78	PASS	
		2437	Ant1	Reference	-4.93	---	PASS
				30~1000	-1000	≤-34.93	PASS
				1000~26500	-47.61	≤-34.93	PASS
		2462	Ant1	Reference	-5.24	---	PASS
				30~1000	-1000	≤-35.24	PASS
				1000~26500	-47.85	≤-35.24	PASS
11N20SISO	Ant1	2412	Reference	2.12	---	PASS	
			30~1000	-1000	≤-27.88	PASS	
			1000~26500	-42.93	≤-27.88	PASS	
		2437	Ant1	Reference	2.19	---	PASS
				30~1000	-58.34	≤-27.81	PASS
				1000~26500	-44.54	≤-27.81	PASS
		2462	Ant1	Reference	1.97	---	PASS
				30~1000	-58.41	≤-28.03	PASS
				1000~26500	-45.11	≤-28.03	PASS
11N40SISO	Ant1	2422	Reference	-1.82	---	PASS	
			30~1000	-58.17	≤-31.82	PASS	
			1000~26500	-44.2	≤-31.82	PASS	
		2437	Ant1	Reference	-1.39	---	PASS
				30~1000	-1000	≤-31.39	PASS
				1000~26500	-41.84	≤-31.39	PASS
		2452	Ant1	Reference	-1.36	---	PASS
				30~1000	-1000	≤-31.36	PASS
				1000~26500	-43.1	≤-31.36	PASS
11AX20SISO	Ant1	2412	Reference	2.03	---	PASS	
			30~1000	-58.6	≤-27.97	PASS	
			1000~26500	-43.62	≤-27.97	PASS	
		2437	Ant1	Reference	1.12	---	PASS
				30~1000	-58.11	≤-28.88	PASS
				1000~26500	-42.77	≤-28.88	PASS
		2462	Ant1	Reference	0.90	---	PASS
				30~1000	-1000	≤-29.1	PASS
				1000~26500	-44.96	≤-29.1	PASS
11AX40SISO	Ant1	2422	Reference	-1.85	---	PASS	
			30~1000	-57.96	≤-31.85	PASS	
			1000~26500	-42.05	≤-31.85	PASS	
		2437	Ant1	Reference	-2.47	---	PASS
				30~1000	-1000	≤-32.47	PASS
				1000~26500	-38.12	≤-32.47	PASS
2452	Ant1	Reference	-2.52	---	PASS		
		30~1000	-1000	≤-32.52	PASS		



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			1000~26500	-39.24	≤-32.52	PASS
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**11.6.2. Test Graphs**

Conducted Spurious Emission
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## 11.7. Appendix G: Duty Cycle

### 11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	12.23	12.28	0.9959	99.59	0.02	0.08	0.01
11G	2.03	2.15	0.9442	94.42	0.25	0.49	0.5
11N20SISO	1.89	2.12	0.8915	89.15	0.50	0.53	1
11N40SISO	0.93	1.10	0.8455	84.55	0.73	1.08	2
11AX20SISO	1.45	1.62	0.8951	89.51	0.48	0.69	1
11AX40SISO	0.75	0.93	0.8065	80.65	0.93	1.33	2

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



### 11.7.2. Test Graphs





11N40SISO Ant1 2437



11AX20SISO Ant1 2437



11AX40SISO Ant1 2437



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**END OF REPORT**