



**CFR 47 FCC PART 15 SUBPART E  
CERTIFICATION TEST REPORT**

*For*

**WIFI+BT Module**

**MODEL NUMBER: DCT85N2001**

**FCC ID: 2AC23-DCT85**

**REPORT NUMBER: 4790014851.2-4**

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**Prepared for**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	09/16/2021	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS
2	Conducted Output Power	FCC 15.407 (a)	PASS
3	Power Spectral Density	FCC 15.407 (a)	PASS
4	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
5	Conducted Emission Test for AC Power Port	FCC 15.207	PASS
6	Frequency Stability	FCC 15.407 (g)	PASS
7	Dynamic Frequency Selection	FCC 15.407 (h)	PASS
8	Antenna Requirement	FCC 15.203	PASS
<b>Note:</b> 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 E > when <Accuracy Method> decision rule is applied. 3. The device is a client device without radar detection. 4. The device does not support TPC function.			



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# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD  
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## Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD  
Address: NO.75 Zhongkai Development Area, Huizhou, Guangdong China

## EUT Information

EUT Name: WIFI+BT Module  
Model: DCT85N2001  
Brand: GSD  
Sample Received Date: July 20, 2021  
Sample Status: Normal  
Sample ID: 4056488  
Date of Tested: July 22, 2021~ August 6, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04 Operational Modes for DFS Testing New Rules v01 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

## 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 40 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
	5.64 dB (26 GHz ~ 40 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
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+BT Module
Model	DCT85N2001
Radio Technology	IEEE802.11a20 IEEE802.11n HT20/n HT40 IEEE802.11ac VHT20/VHT40/VHT80
Operation frequency	UNII-1/ UNII-2A/ UNII-2C/UNII-3
Modulation	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Power Supply	DC 3.3 V
Note	<p>The product has four kinds of constructions:</p> <ol style="list-style-type: none"><li>1. Module with a shielding cover and DC TO DC component package DFN-6.</li><li>2. Module without a shielding cover and DC TO DC component package DFN-6.</li><li>3. Module with a shielding cover and DC TO DC component package SOT23-5.</li><li>4. Module without a shielding cover and DC TO DC component package SOT23-5.</li></ol> <p>Constructions 1&amp;2&amp;3&amp;4 have the same RF technical construction including circuit diagram, PCB Layout, components and component layout. The only difference lies is the different DC TO DC components and the with and without shielding cover.</p>



## 5.2. MAXIMUM OUTPUT POWER

### UNII-1 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
a20	5150 ~ 5250	16.10	19.10
n HT20		14.54	17.54
n HT40		17.14	20.14
ac VHT20		14.26	17.26
ac VHT40		17.67	20.67
ac VHT80		13.47	16.47

### UNII-2A BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a20	5250 ~ 5350	16.09
n HT20		17.35
n HT40		15.26
ac VHT20		16.51
ac VHT40		17.48
ac VHT80		13.48

### UNII-2C BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a20	5470 ~ 5725	15.18
n HT20		15.43
n HT40		14.02
ac VHT20		16.78
ac VHT40		17.12
ac VHT80		10.79

### UNII-3 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a20	5725 ~ 5850	15.32
n HT20		16.92
n HT40		17.66
ac VHT20		16.53
ac VHT40		17.16
ac VHT80		13.31

### 5.3. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A (For Bandwidth=20MHz)		UNII-2A (For Bandwidth=40MHz)		UNII-2A (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C (For Bandwidth=20MHz)		UNII-2C (For Bandwidth=40MHz)		UNII-2C (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note: Frequency band 5600MHz~5650MHz (CH118,CH120,CH124,CH126,CH128,CH122) shall be restricted to transmit for ISED in Canada.



### 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	PIFA	3
1	5150-5850	PIFA	3

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing was performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain=  $G_{ANT} + \text{Array Gain} = 3 \text{ dBi}$

$G_{ANT}$  : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain=  $G_{ANT} + \text{Array Gain} = 6 \text{ dBi}$

Array Gain =  $10 \log(N_{ANT}/N_{SS}) \text{ dB}$ .

$N_{ANT}$  : number of transmit antennas

$N_{SS}$  : number of spatial streams, The worst case directional gain will occur when  $N_{SS} = 1$

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 or ANT 2 can be used as transmitting/receiving antenna.
802.11n HT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11n HT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT80	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
<p>Note: 1.BT&amp;WLAN 2.4G, BT &amp; WLAN 5G, WLAN 2.4G &amp; WLAN 5G can't transmit simultaneously. (declared by client)</p>		

**5.5. THE WORSE CASE POWER SETTING PARAMETER**

The Worse Case Power Setting Parameter	
Test Software	DutApiMimoBt

## UNII-1

Mode	Rate	Channel	Soft set value	
			ANT 1	ANT 2
11a20	6M	36	15	15
		40	15	15
		48	15	15
11n HT20	MCS0	36	11	11
		40	11	11
		48	10	10
11n HT40	MCS0	38	13	13
		46	13	13
11ac VHT20	MCS0	36	11	11
		40	11	11
		48	11	11
11ac VHT40	MCS0	38	13	13
		46	13	13
11ac VHT80	MCS0	42	11	11

## UNII-2A

Mode	Rate	Channel	Soft set value	
			ANT 1	ANT 2
11a	6M	52	15	15
		56	15	15
		64	15	15
11n HT20	MCS0	52	14	14
		56	14	14
		64	14	14
11n HT40	MCS0	54	13	13
		62	13	13
11ac VHT20	MCS0	52	11	11
		56	11	11
		64	11	11
11ac VHT40	MCS0	54	13	13
		62	13	13
11ac VHT80	MCS0	58	11	11



## UNII-2C

Mode	Rate	Channel	Soft set value	
			ANT 1	ANT 2
11a	6M	100	13	15
		116	13	15
		140	13	15
		144	13	15
11n HT20	MCS0	100	13	13
		116	13	13
		140	12	12
		144	12	12
11n HT40	MCS0	102	12	12
		118	12	12
		134	12	12
		142	12	12
11ac VHT20	MCS0	100	13	13
		116	13	13
		140	13	13
		144	13	13
11ac VHT40	MCS0	102	13	13
		118	13	13
		142	13	13
11ac VHT80	MCS0	106	8	8
		122	8	8
		138	8	8

## UNII-3

Mode	Rate	Channel	Soft set value	
			ANT1	ANT 2
11a	6M	149	15	15
		157	15	15
		165	15	15
11n HT20	MCS0	149	14	14
		157	14	14
		165	14	14
11n HT40	MCS0	151	14	14
		159	14	14
11ac VHT20	MCS0	149	13	13
		157	13	13
		165	13	13
11ac VHT40	MCS0	151	13	13
		159	13	13
11ac VHT80	MCS0	155	10	10

## 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 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps  
802.11n HT20 mode: MCS0  
802.11n HT40 mode: MCS0  
802.11ac VHT20 mode: MCS0  
802.11ac VHT40 mode: MCS0  
802.11ac VHT80 mode: MCS0

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes radiated emission test data are recorded in the report .

802.11ac&n SISO mode and MIMO mode have the same power setting, so only the worst case power mode (MIMO) will be record in the report.

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 1 and antenna 2 respectively.

Antenna 1 and Antenna 2 have the same power setting, but the power test data are different. (Declared by customer.)

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

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

The EUT support Cyclic Shift Diversity(CDD), Space Time Coding(STBC), Spatial Division Multiplexing(SDM) modes. They use the same conducted power per chain in any given mode, CDD mode have the maximum power setting, so we only chose the worst case mode CDD for final testing.



## 5.7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	R303U5AG
2	AC/DC adapter	/	HNBM050200WC	Input: AC 100-240 V, 50/60 Hz, 0.35A Output: DC 5.0 V, 5000 mA

### I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

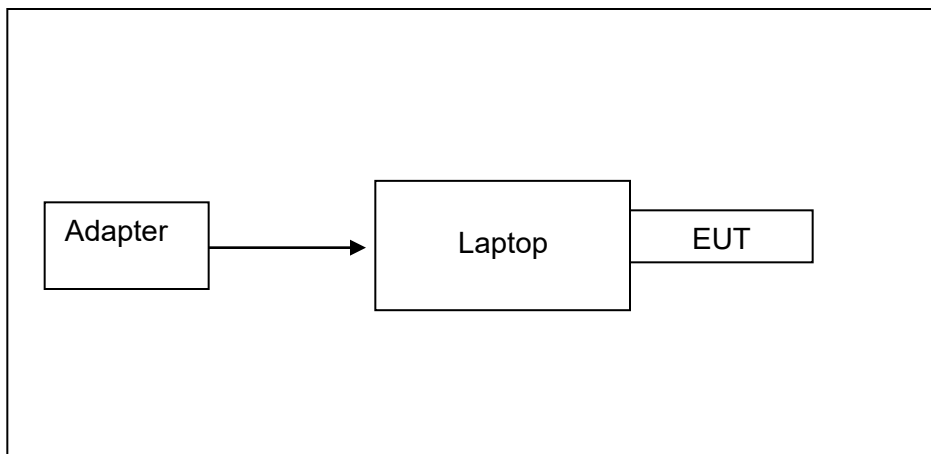
### ACCESSORIES

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

### TEST SETUP

The EUT can work in an engineer mode with 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
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	April 24, 2020	April 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
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-	2	Nov. 12, 2020	Nov. 11, 2021



		60SS			
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	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
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Nov.20,2020	Nov.19,2021
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.
Power sensor, Power Meter	R&S	OSP120	100921	Mar.23,2021	Mar.2,2022

## 7. ANTENNA PORT TEST RESULTS

### 7.1. ON TIME AND DUTY CYCLE

#### LIMITS

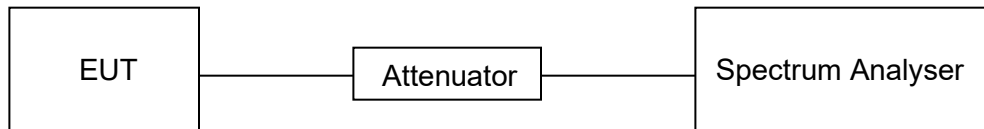
None; for reporting purposes only.

#### PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set  $RBW \geq EBW$  if possible; otherwise, set RBW to the largest available value. Set  $VBW \geq RBW$ . Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$ , where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	26 °C	Relative Humidity	60.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

#### RESULTS

Please refer to appendix D.



## 7.2. 6/26 dB EMISSION BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725 (For FCC)
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825

### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

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	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \cdot \text{RBW}$ For 26 dB Bandwidth: $> 3 \cdot \text{RBW}$ For 99 % Bandwidth: $> 3 \cdot \text{RBW}$
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 6/26 dB relative to the maximum level measured in the fundamental emission.

**Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:**

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion =  $(5725-(5720-(21.00/2))) = 15.50$  MHz

99 % Bandwidth of UNII-3 Band Portion =  $(5720+(21.00/2)-5725) = 5.50$  MHz

**Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:**

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz

FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion =  $5725-5710.16=14.84$  MHz

**Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:**

For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz

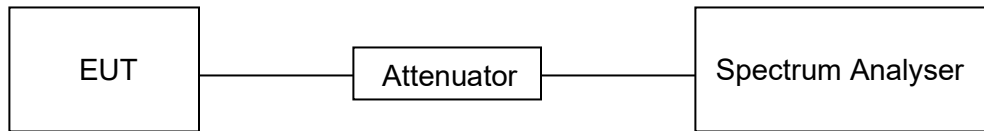
FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion =  $5728.2-5725=3.2$  MHz

**TEST SETUP**



**TEST ENVIRONMENT**

Temperature	26 °C	Relative Humidity	60.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

**RESULTS**

Please refer to Appendix A1&A2&A3.



### 7.3. CONDUCTED OUTPUT POWER

#### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	<input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Indoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input checked="" type="checkbox"/> Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

### **Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):**

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW  $\geq$  3 MHz.
- (iv) Number of points in sweep  $\geq 2 \times$  span / RBW. (This ensures that bin-to-bin spacing is  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle  $<$  98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

### **Method PM (Measurement using an RF average power meter):**

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
  - a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
  - b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
  - c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle,  $x$ , of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding  $10 \log (1/x)$  where  $x$  is the duty cycle (e.g.,  $10 \log (1/0.25)$  if the duty cycle is 25 %).

### **Method PM-G (Measurement using a gated RF average power meter):**

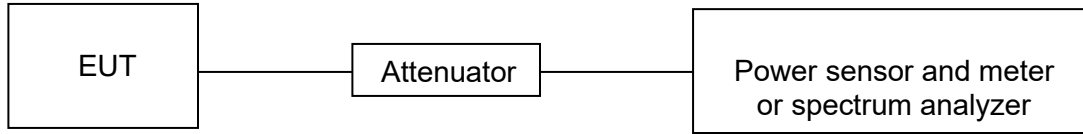
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.





**TEST SETUP**



**TEST ENVIRONMENT**

Temperature	26 °C	Relative Humidity	60.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

**RESULTS**

Please refer to Appendix B.



## 7.4. POWER SPECTRAL DENSITY

### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input type="checkbox"/> Indoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input checked="" type="checkbox"/> Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

**Note:**

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

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

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

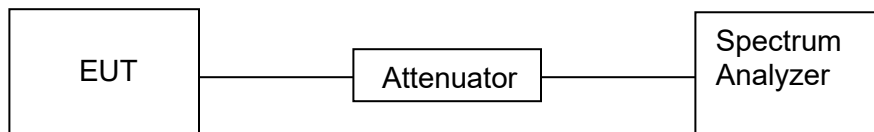
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

## **TEST SETUP**



## **TEST ENVIRONMENT**

Temperature	26 °C	Relative Humidity	60.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

## **RESULTS**

Please refer to Appendix C.

## 8. RADIATED TEST RESULTS

### LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

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) (µA/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 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	
16.89475 - 16.89525	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

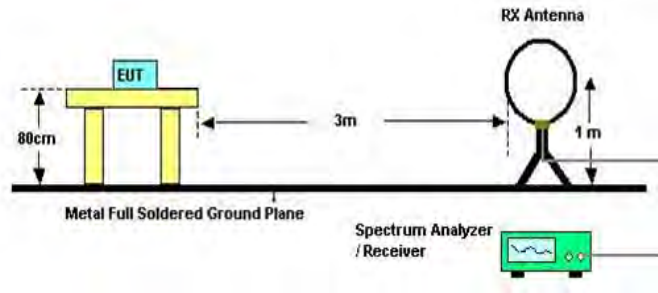
Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

**TEST SETUP AND PROCEDURE**

Below 30 MHz

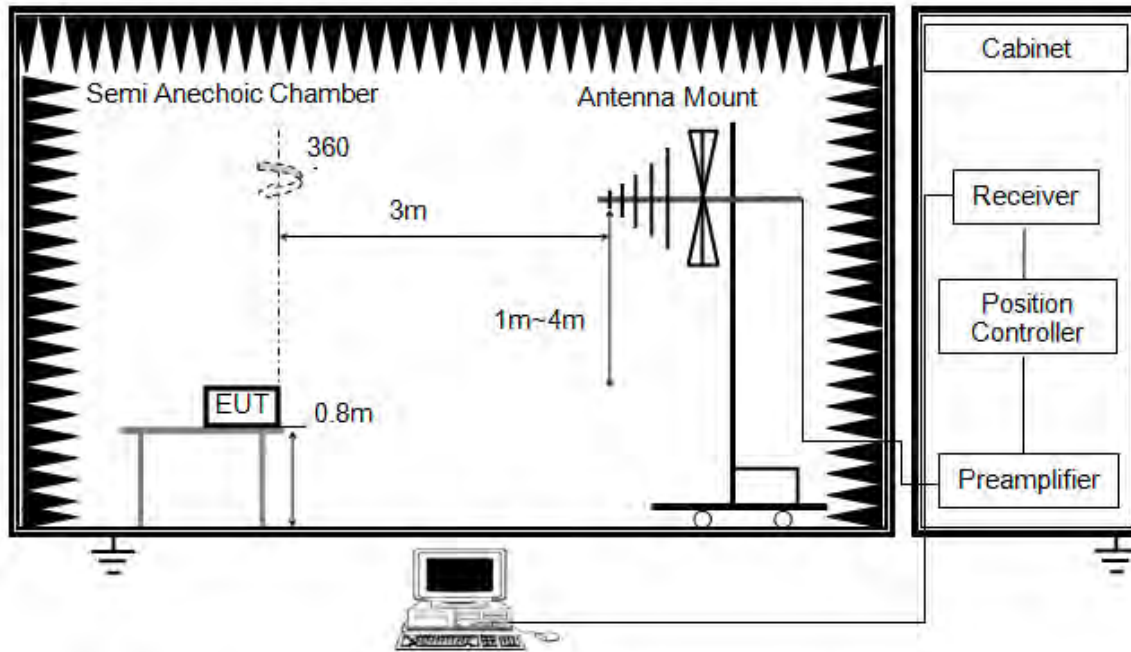


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
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



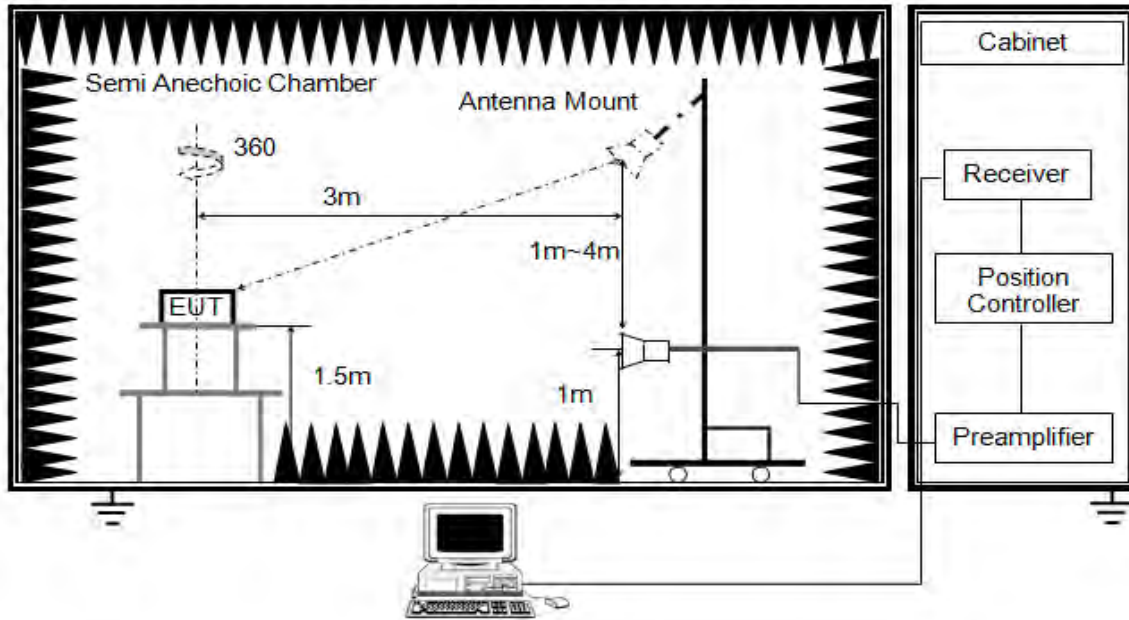
The setting of the spectrum analyser

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

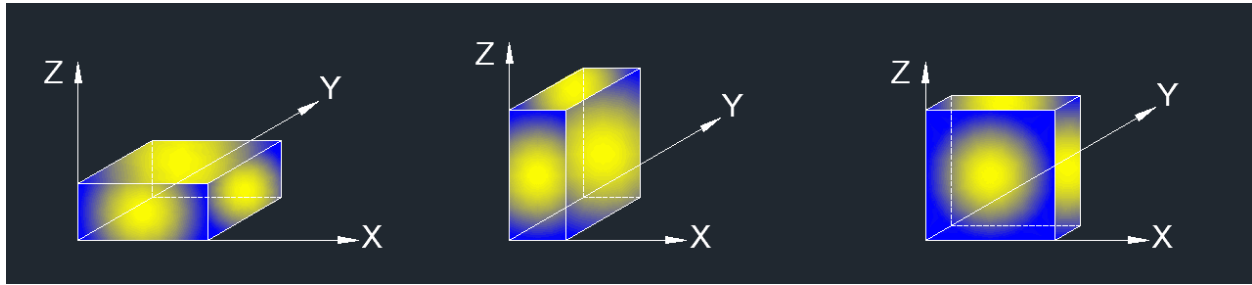


The setting of the spectrum analyser

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 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.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 (X axis) data recorded in the report.

### TEST ENVIRONMENT

Temperature	25.2 °C	Relative Humidity	46 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

### RESULTS



**8.1. RESTRICTED BANDEGE**

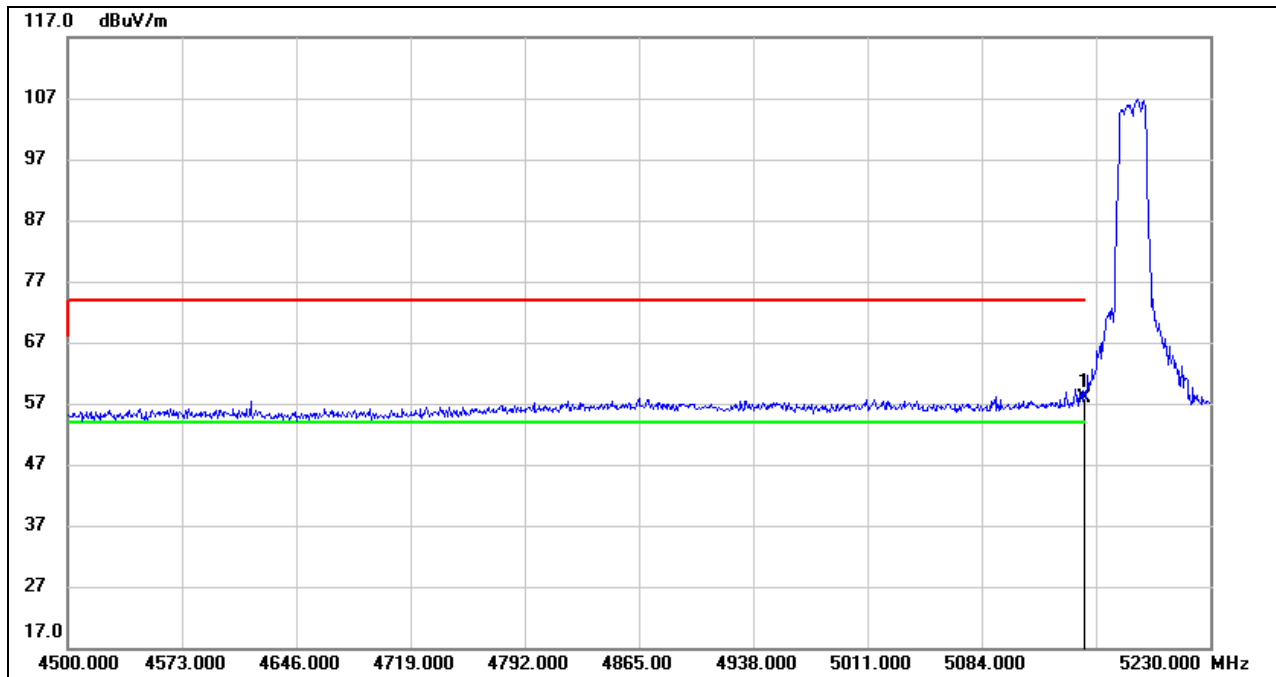
**8.1.1. 802.11a20 SISO MODE**

**UNII-1 BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

**RESTRICTED BANDEGE (LOW CHANNEL, HORIZONTAL)**

**PEAK**

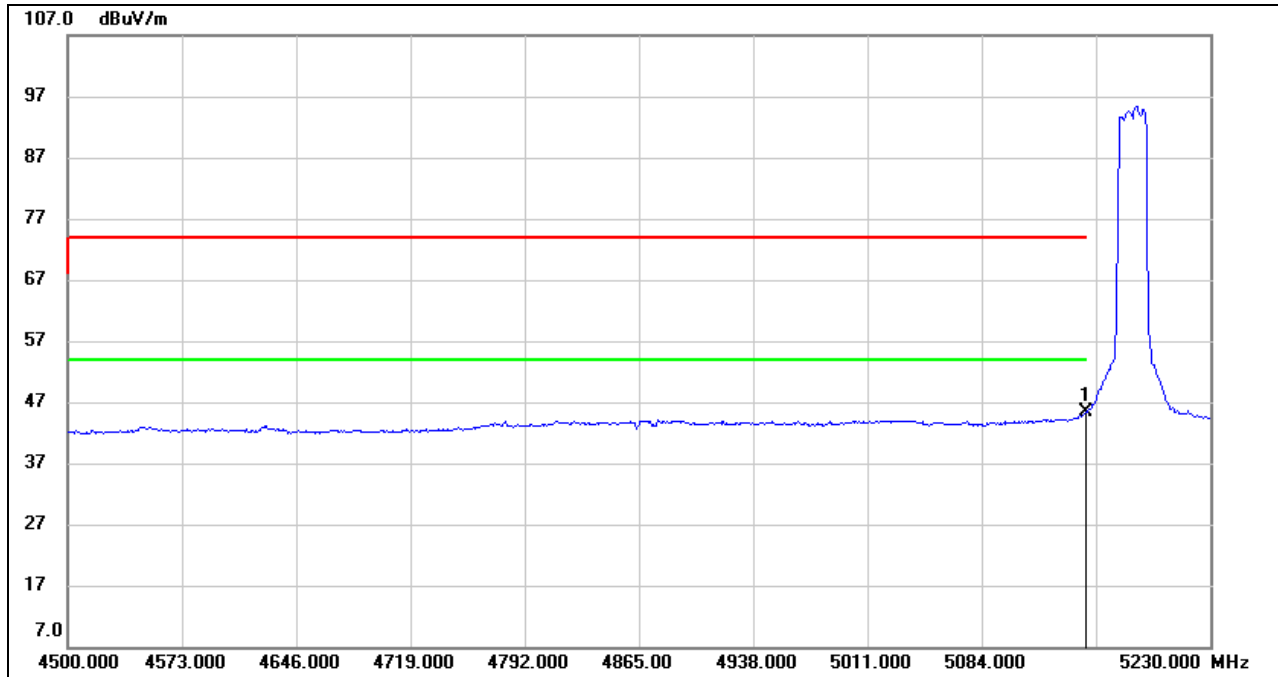


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.76	41.19	57.95	74.00	-16.05	peak

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



**AVG**



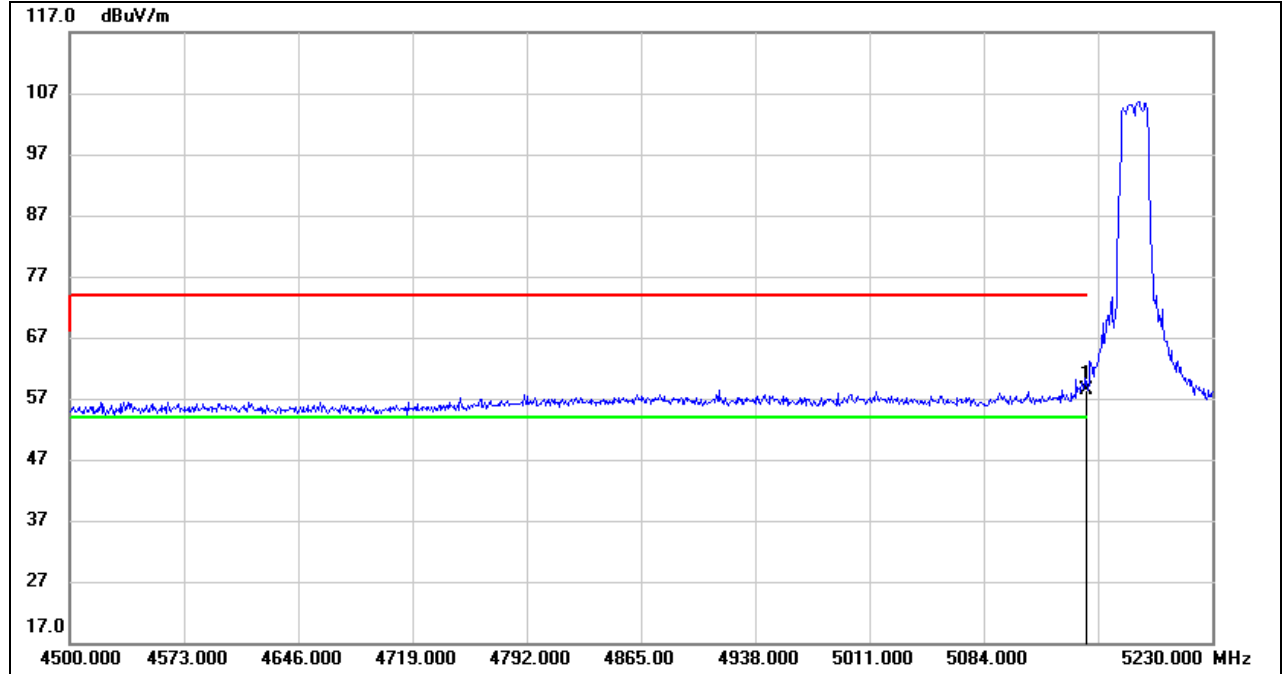
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	4.14	41.19	45.33	54.00	-8.67	AVG

- 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. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



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

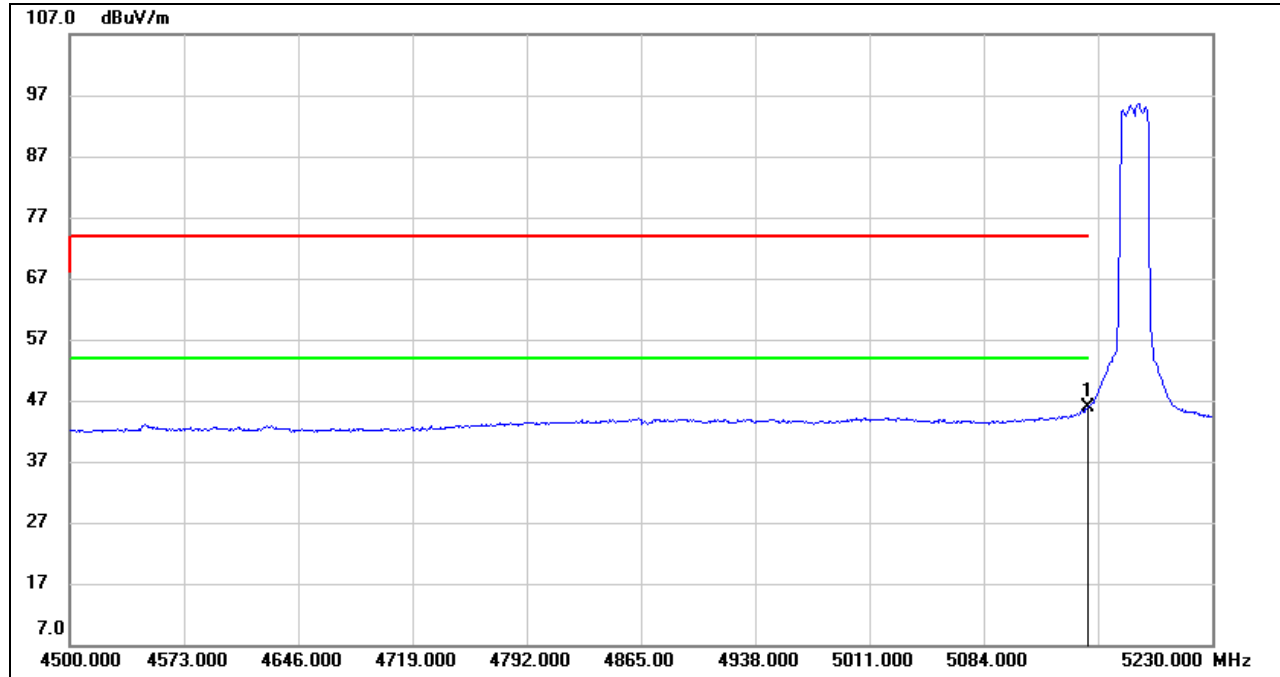
**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	17.21	41.19	58.40	74.00	-15.60	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. 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	5150.000	4.64	41.19	45.83	54.00	-8.17	AVG

- 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. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

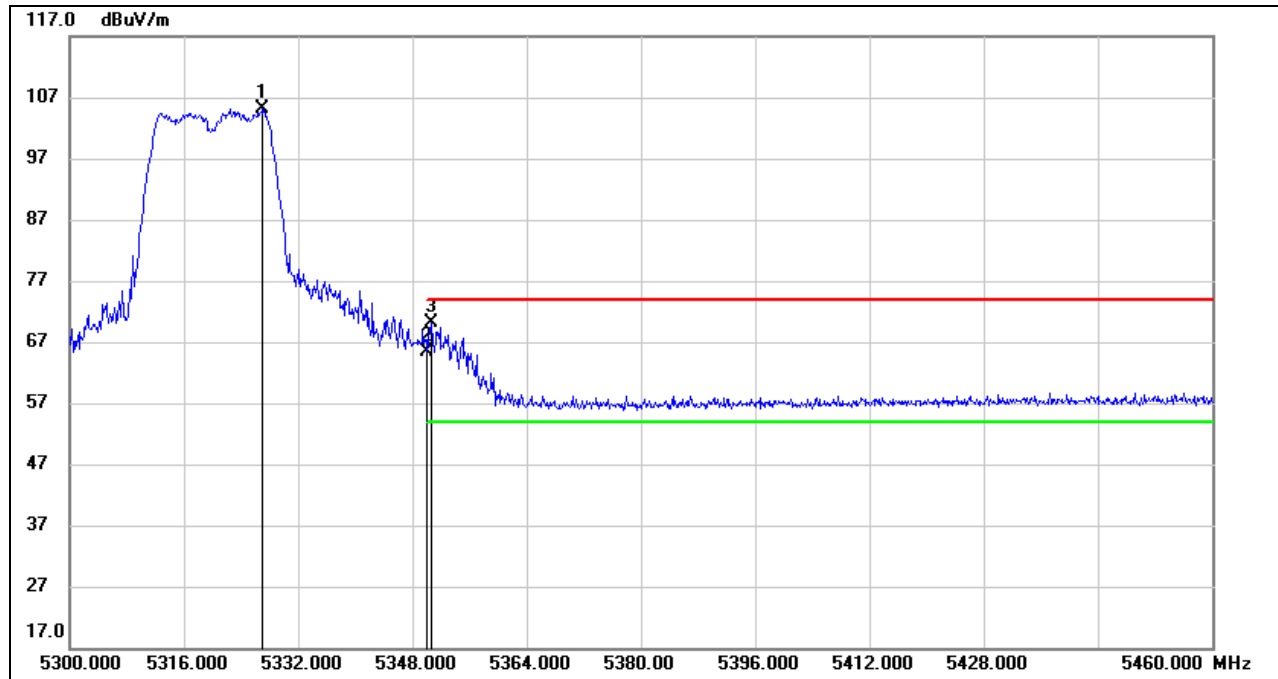


**UNII-2A BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

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

**PEAK**

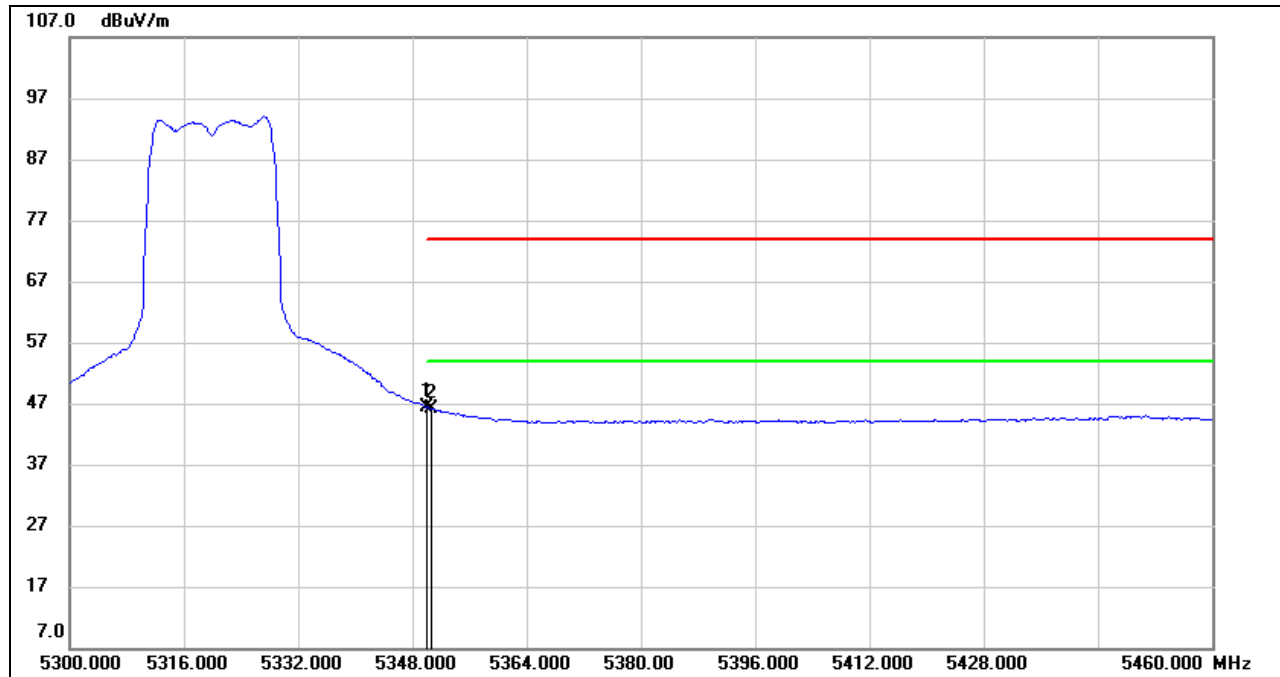


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5327.040	64.06	41.08	105.14	/	/	Fundamental
2	5350.000	24.11	41.20	65.31	74.00	-8.69	peak
3	5350.720	28.92	41.21	70.13	74.00	-3.87	peak

- 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. 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	5350.000	5.18	41.20	46.38	54.00	-7.62	AVG
2	5350.720	4.87	41.21	46.08	54.00	-7.92	AVG

- 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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



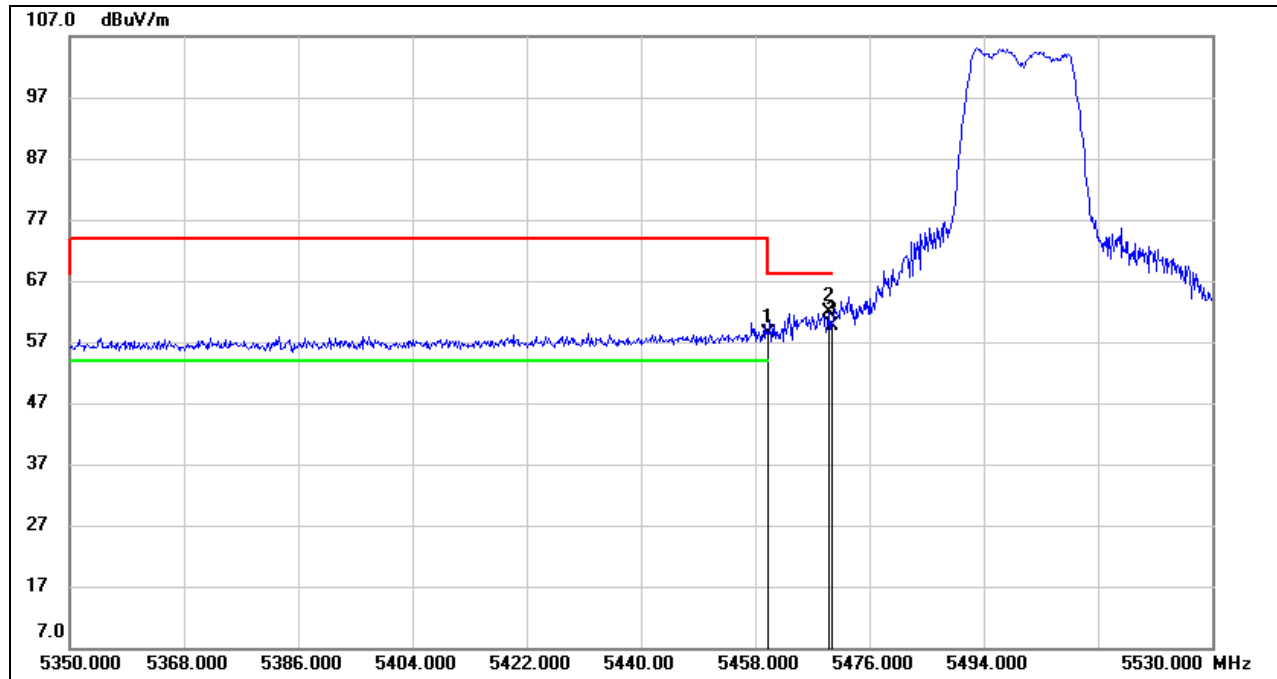


**UNII-2C BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

**PEAK**

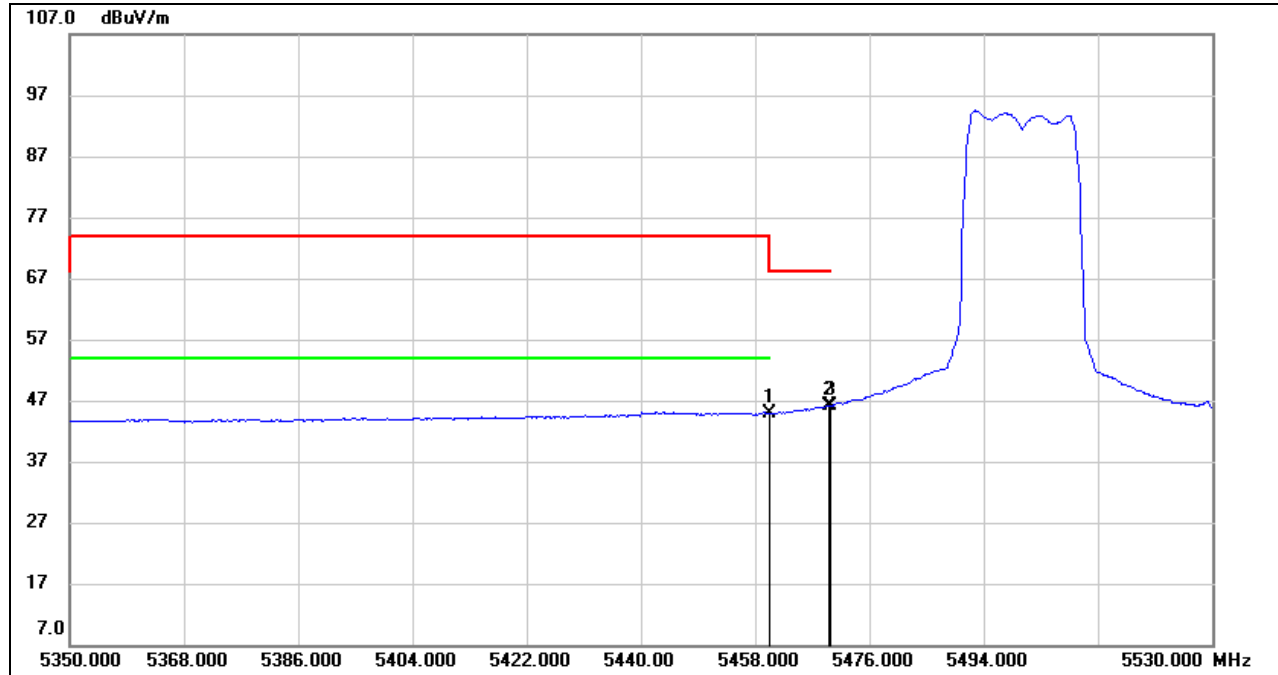


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	16.46	41.82	58.28	68.20	-9.92	peak
2	5469.700	20.10	41.87	61.97	68.20	-6.23	peak
3	5470.000	17.82	41.87	59.69	68.20	-8.51	peak

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. 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	5460.000	3.09	41.82	44.91	54.00	-9.09	AVG
2	5469.700	4.34	41.87	46.21	/	/	AVG
3	5470.000	4.34	41.87	46.21	/	/	AVG

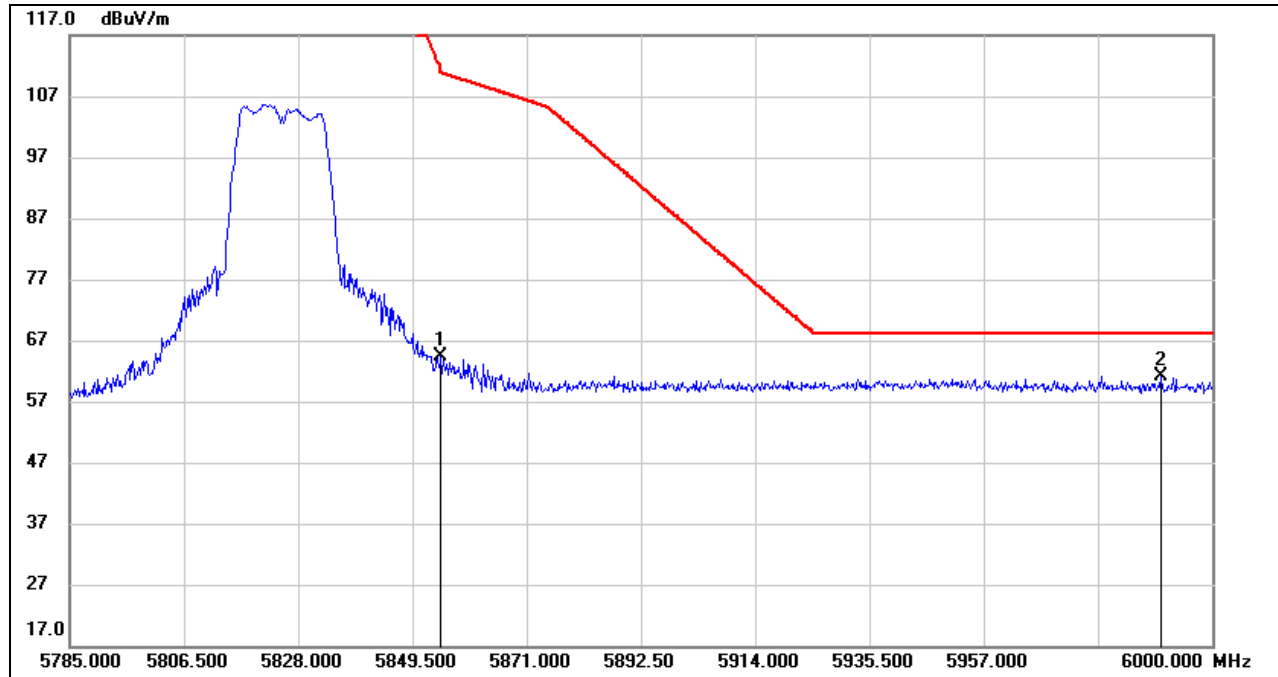
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was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

**UNII-3 BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

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

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5854.875	21.89	42.58	64.47	111.08	-46.61	peak
2	5990.325	18.62	42.61	61.23	68.20	-6.97	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

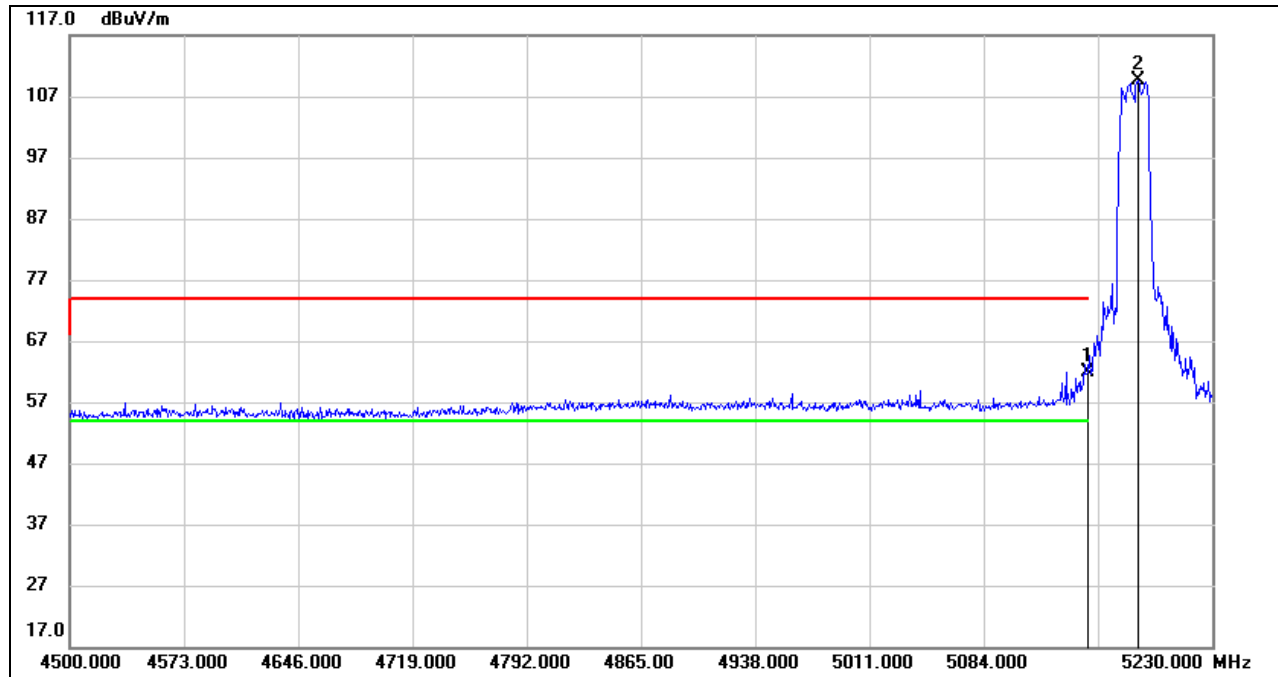


8.1.2. 802.11n HT20 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

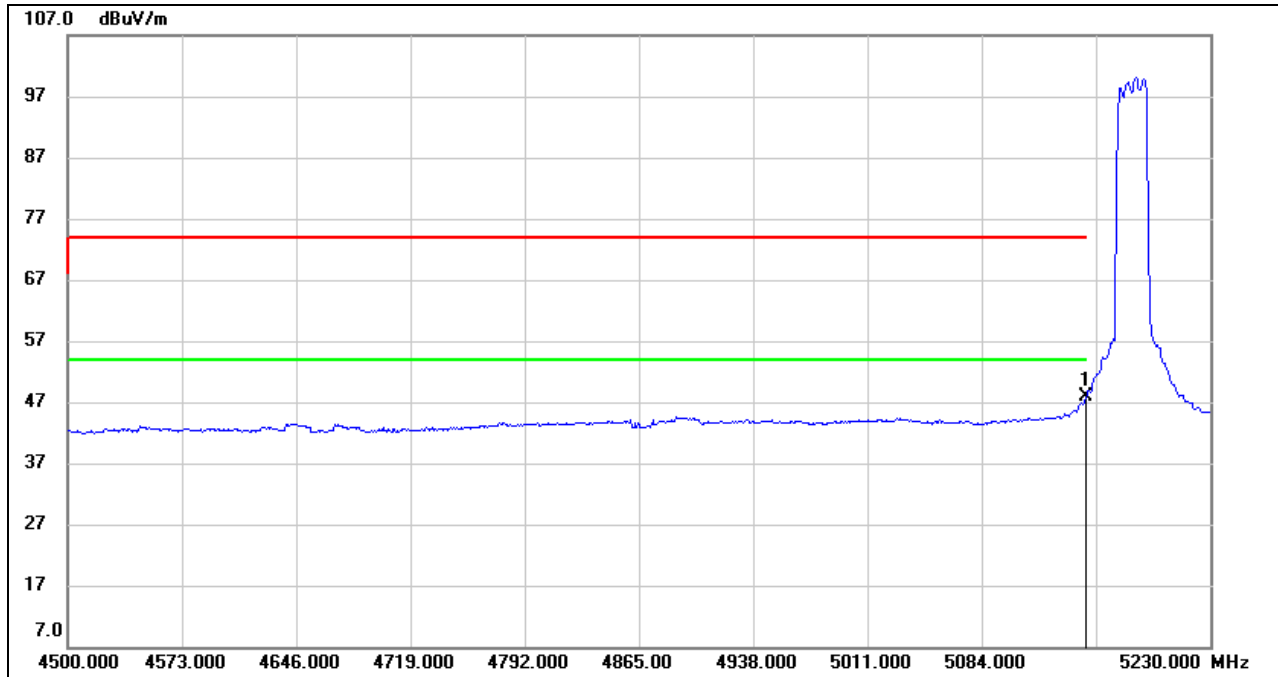


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.61	41.19	61.80	74.00	-12.20	peak
2	5182.550	68.06	41.47	109.53	/	/	Fundamental

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



**AVG**



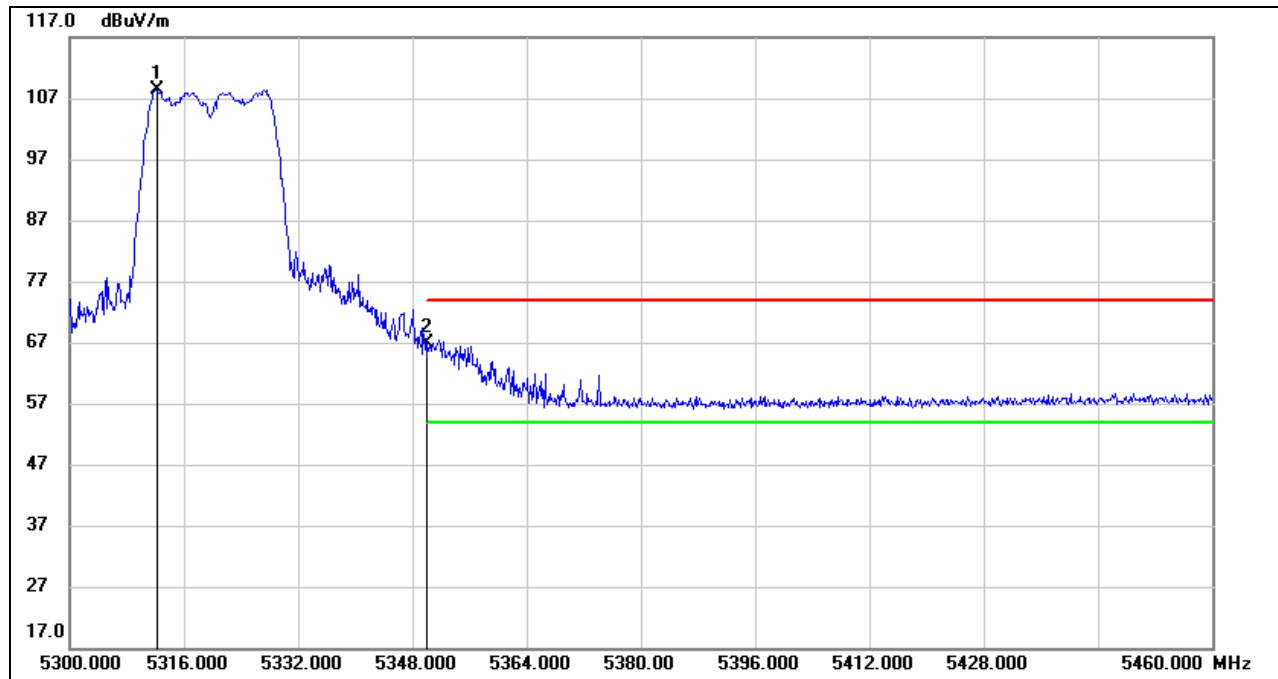
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	6.72	41.19	47.91	54.00	-6.09	AVG

- 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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**UNII-2A BAND**

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

**PEAK**

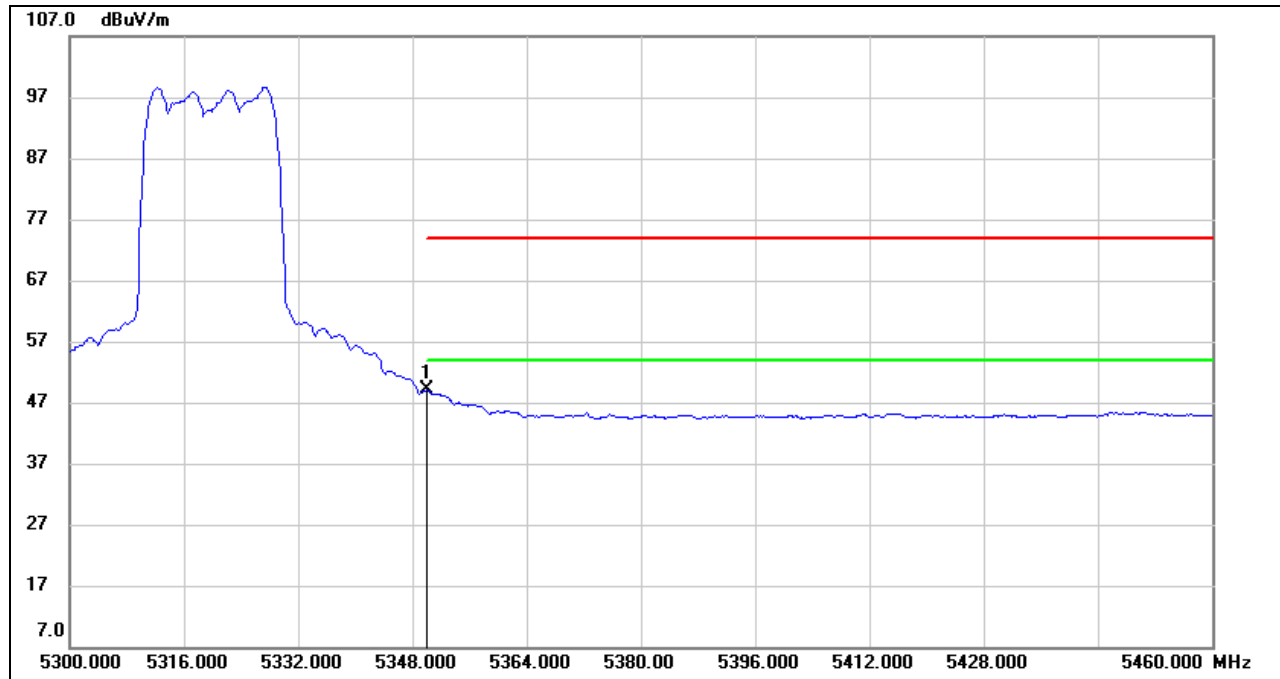


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.160	67.51	40.99	108.50	/	/	Fundamental
2	5350.000	25.57	41.20	66.77	74.00	-7.23	peak

- 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. 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	5350.000	7.84	41.20	49.04	54.00	-4.96	AVG

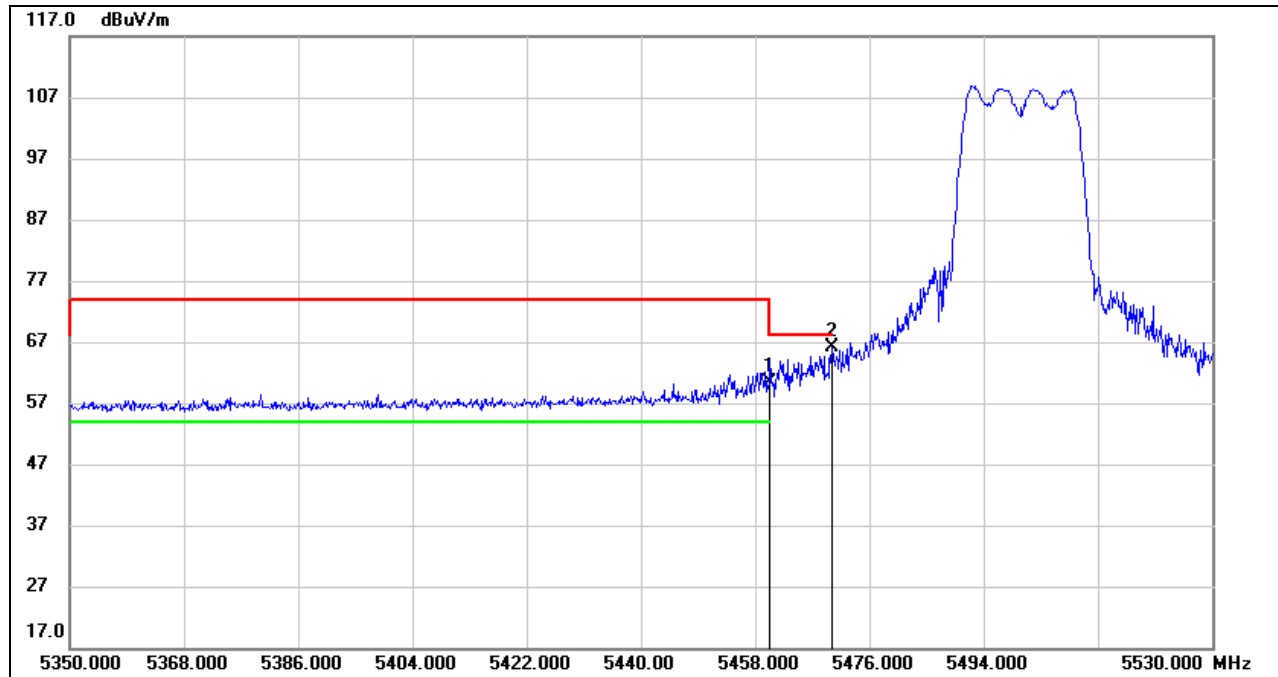
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst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



**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

**PEAK**



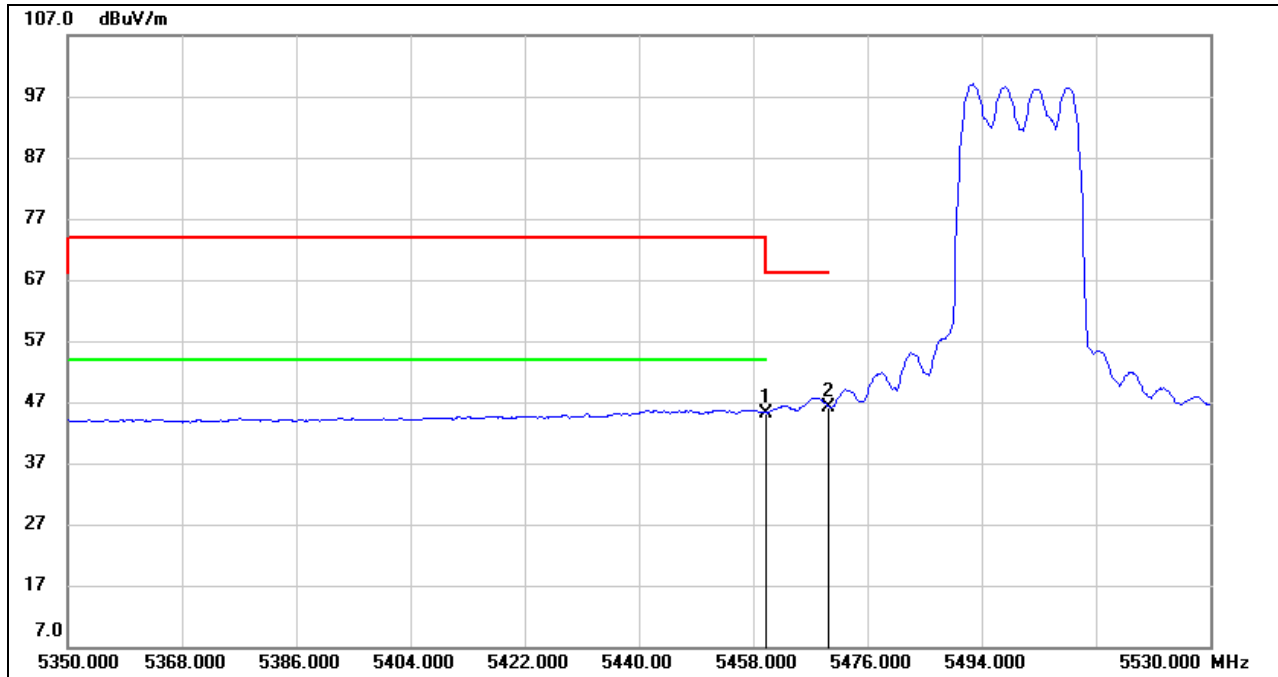
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	18.53	41.82	60.35	68.20	-7.85	peak
2	5470.000	24.34	41.87	66.21	68.20	-1.99	peak

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





**AVG**



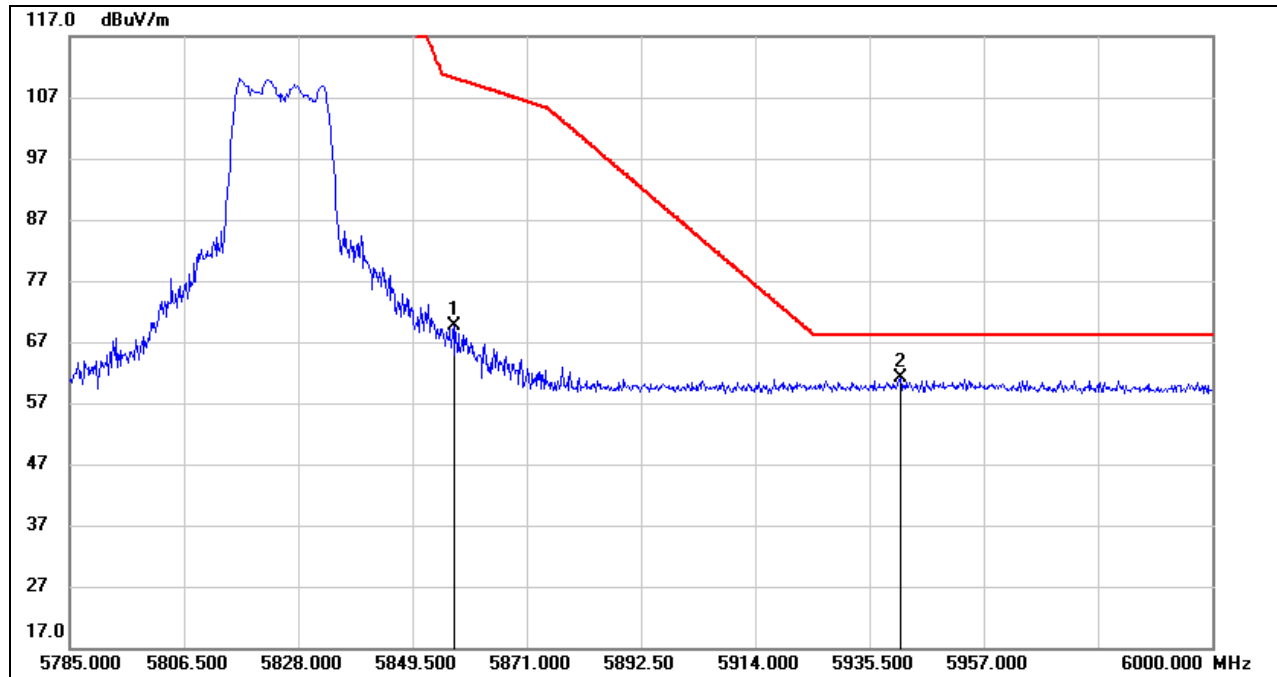
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	3.39	41.82	45.21	54.00	-8.79	AVG
2	5470.000	4.37	41.87	46.24	/	/	AVG

- 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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**UNII-3 BAND**

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

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5857.240	26.96	42.60	69.56	110.17	-40.61	peak
2	5941.305	18.34	42.84	61.18	68.20	-7.02	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

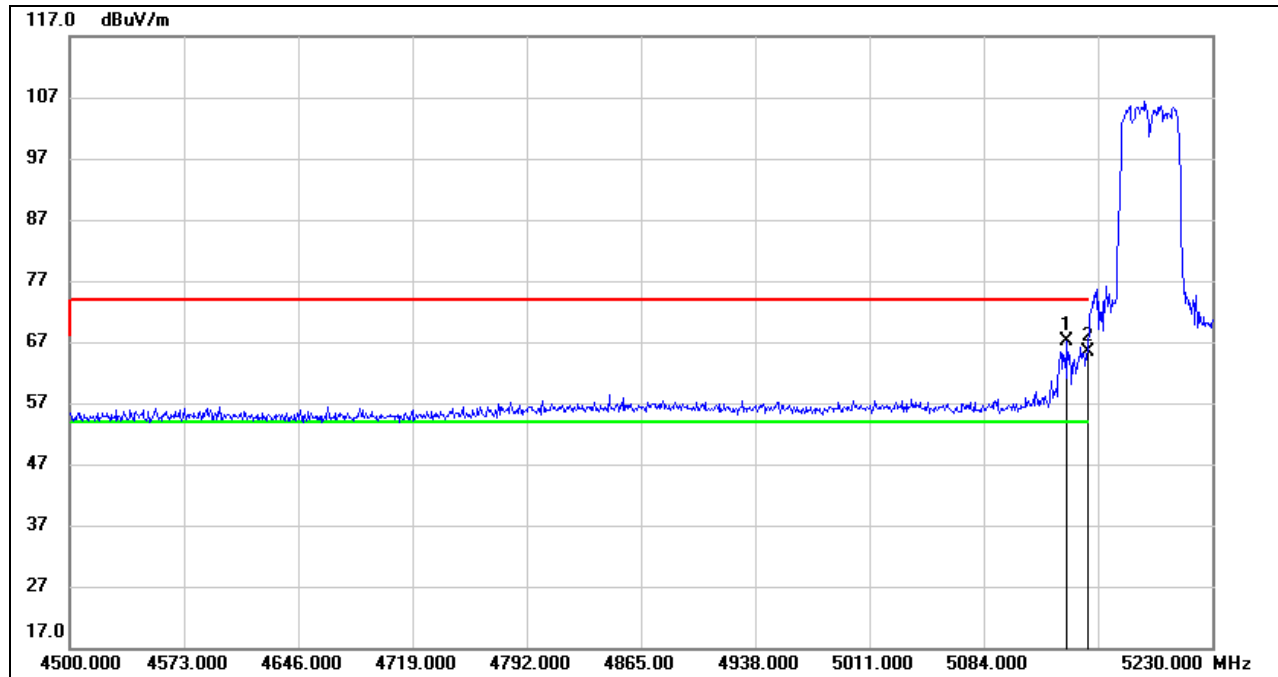


8.1.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

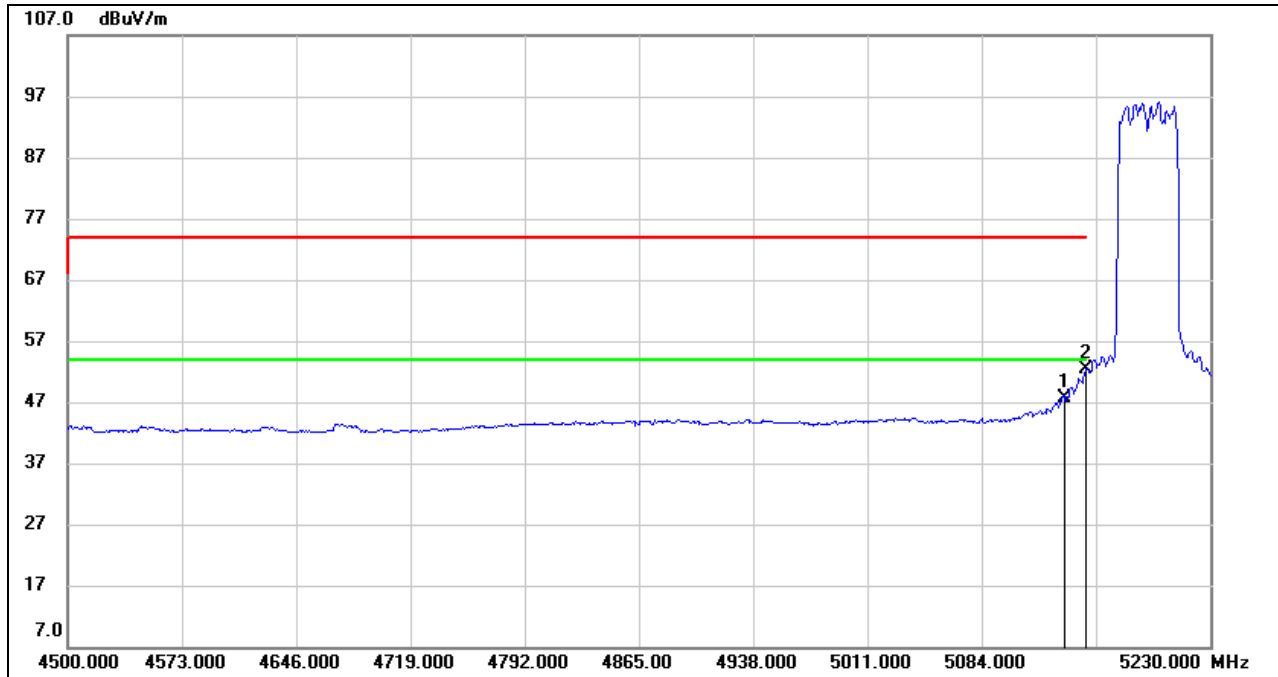
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5137.290	26.06	41.07	67.13	74.00	-6.87	peak
2	5150.000	24.24	41.19	65.43	74.00	-8.57	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. 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	5137.290	6.50	41.07	47.57	54.00	-6.43	AVG
2	5150.000	11.15	41.19	52.34	54.00	-1.66	AVG

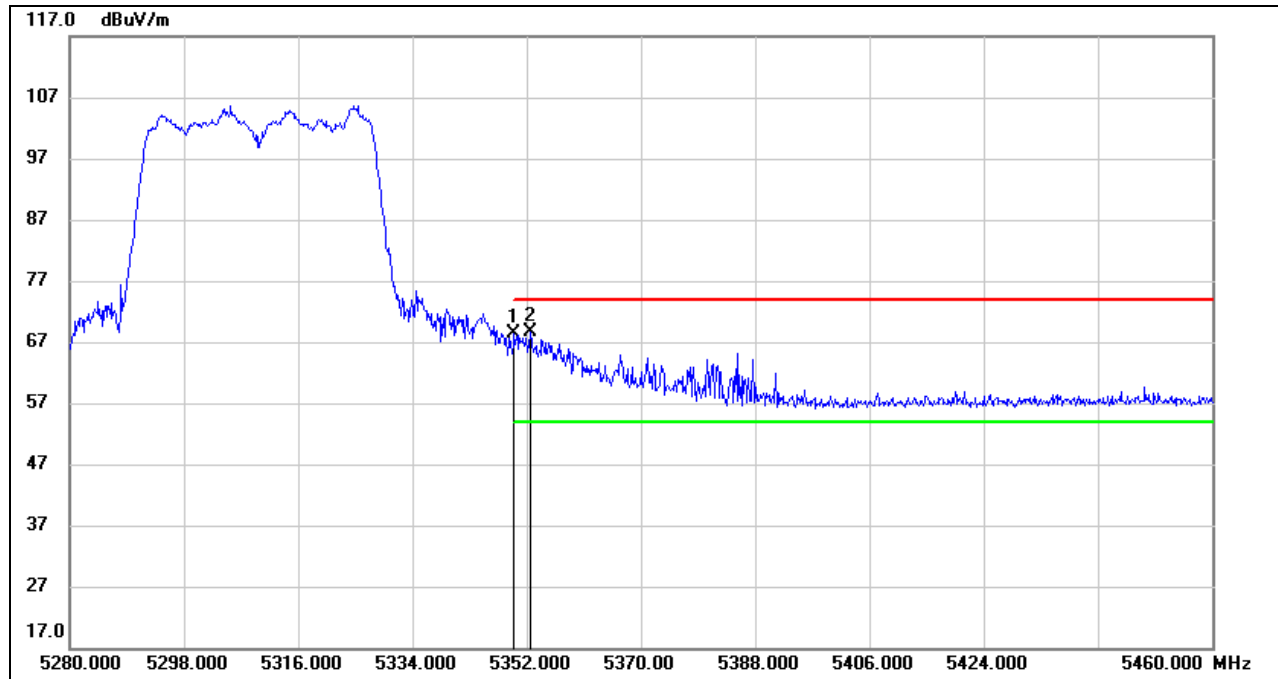
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data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



**UNII-2A BAND**

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

**PEAK**

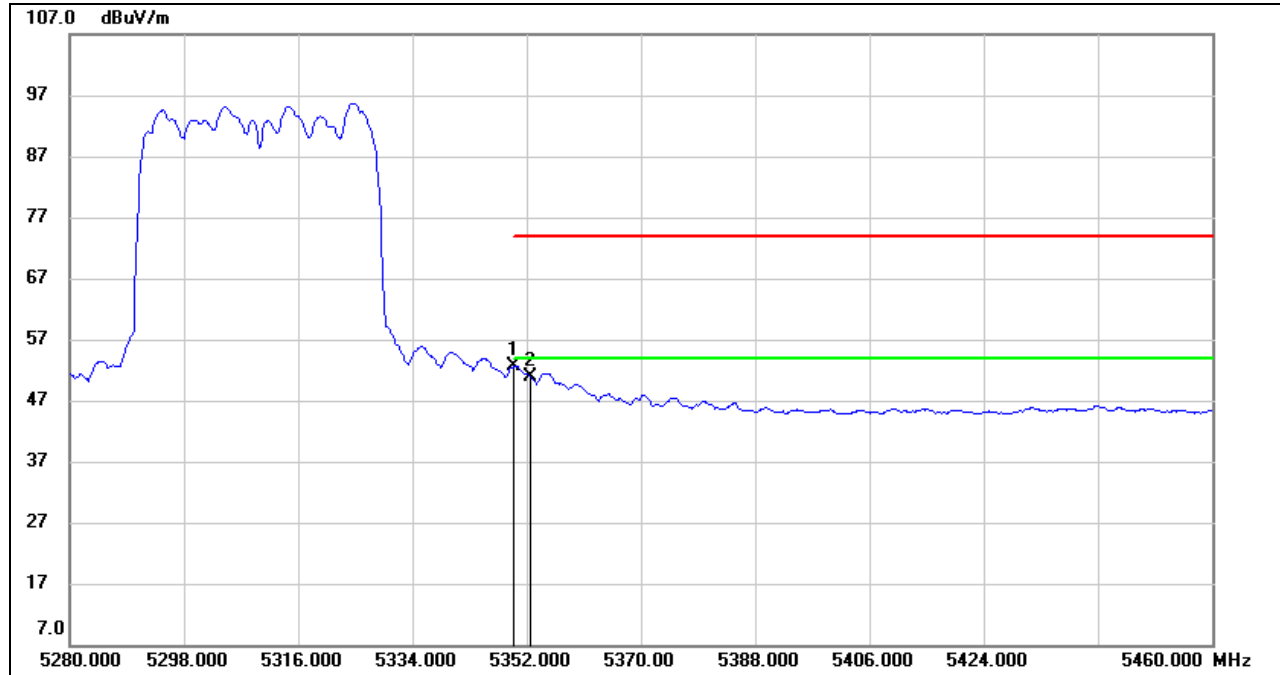


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	27.26	41.20	68.46	74.00	-5.54	peak
2	5352.540	27.48	41.22	68.70	74.00	-5.30	peak

- 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.
  4. 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	5350.000	11.40	41.20	52.60	54.00	-1.40	AVG
2	5352.540	9.72	41.22	50.94	54.00	-3.06	AVG

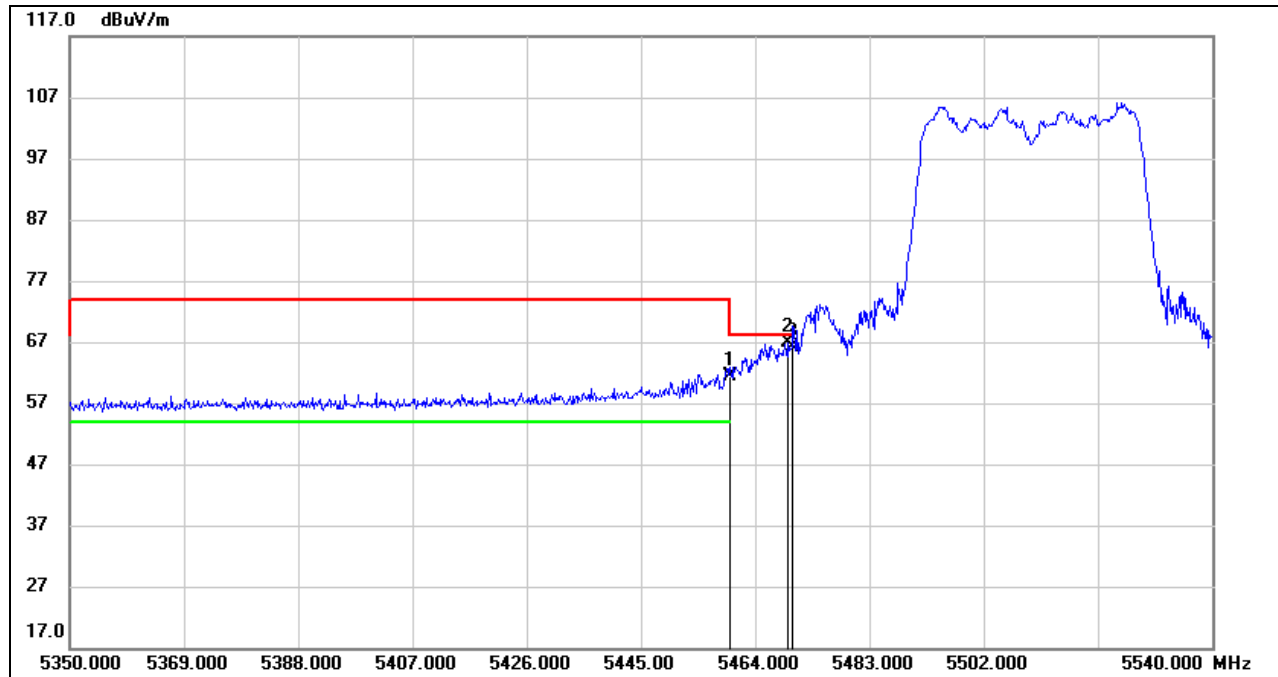
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data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



**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

**PEAK**

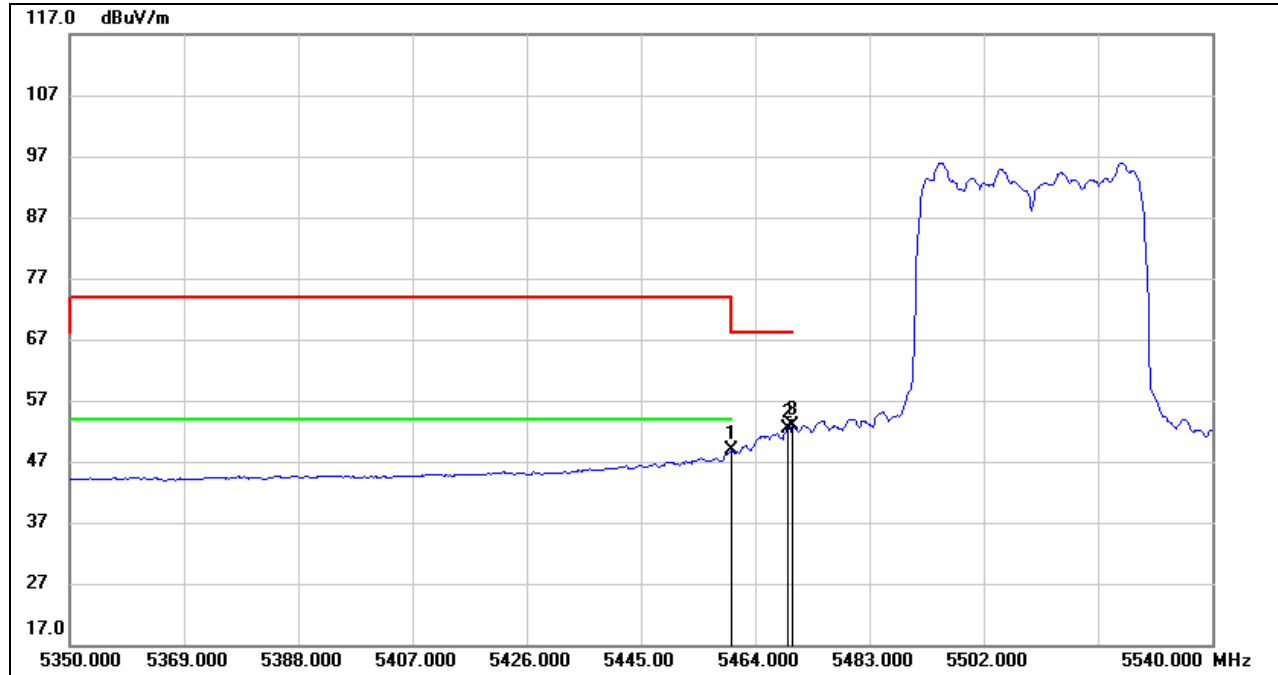


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	19.57	41.82	61.39	68.20	-6.81	peak
2	5469.510	24.94	41.87	66.81	68.20	-1.39	peak
3	5470.000	24.20	41.87	66.07	68.20	-2.13	peak

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. 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	5460.000	6.98	41.82	48.80	54.00	-5.20	AVG
2	5469.510	10.60	41.87	52.47	/	/	AVG
3	5470.000	11.04	41.87	52.91	/	/	AVG

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

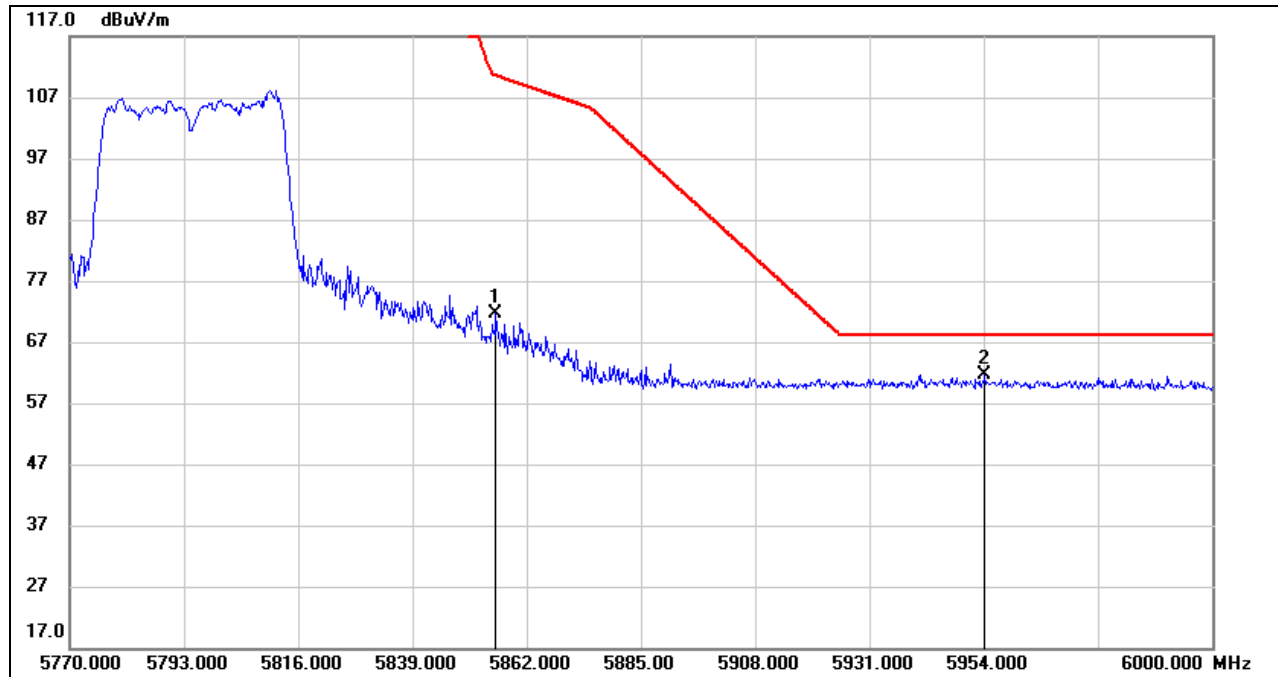




**UNII-3 BAND**

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

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5855.790	29.11	42.59	71.70	110.58	-38.88	peak
2	5954.230	18.82	42.77	61.59	68.20	-6.61	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

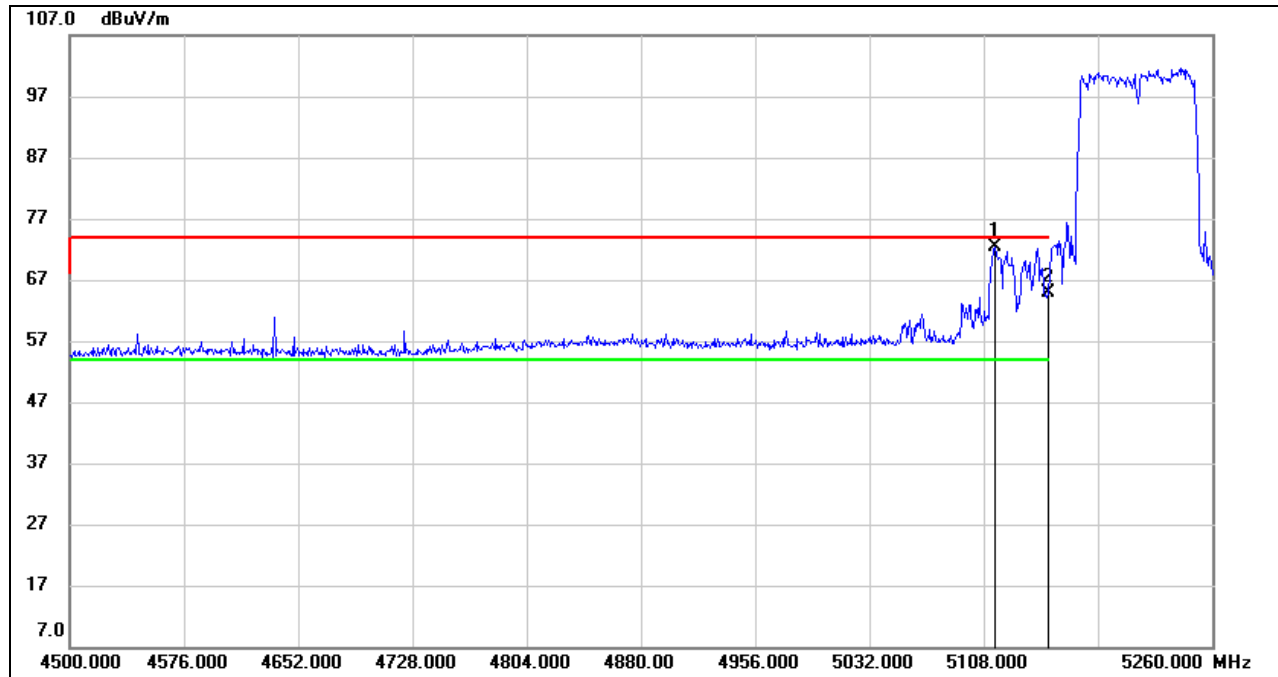


8.1.4. 802.11ac VHT80 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

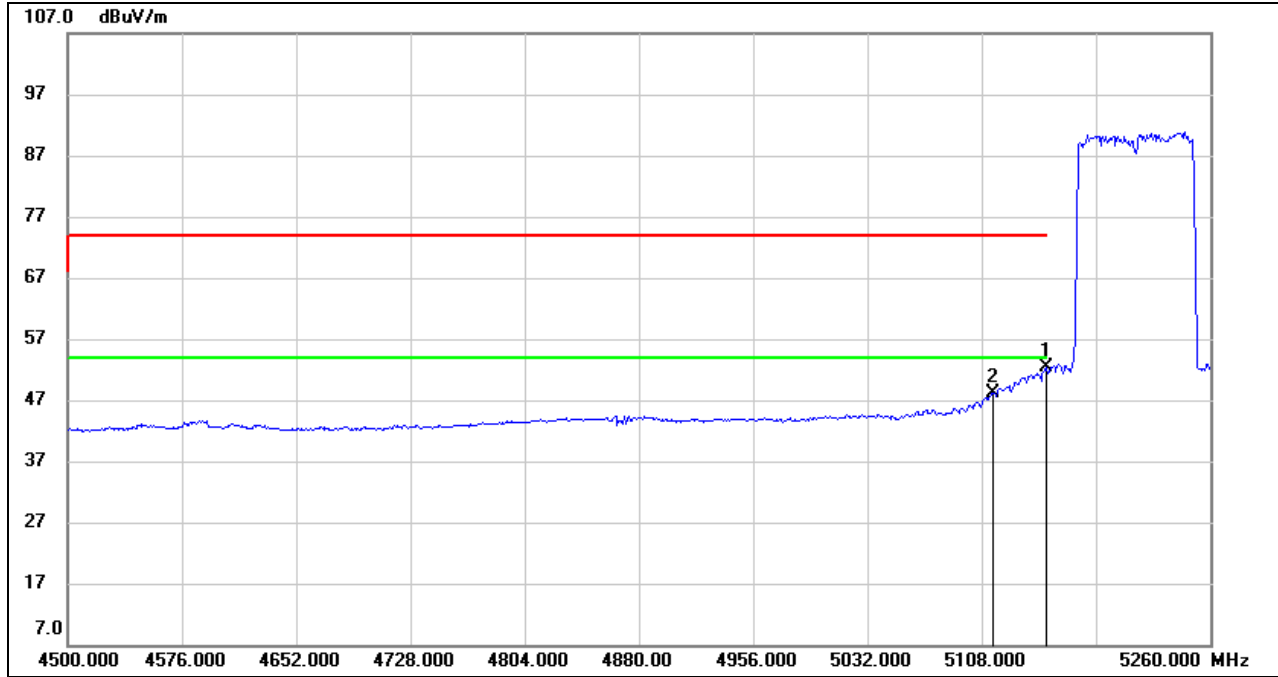


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5115.600	31.45	40.89	72.34	74.00	-1.66	peak
2	5150.000	23.61	41.19	64.80	74.00	-9.20	peak

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. 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	5150.000	11.13	41.19	52.32	54.00	-1.68	AVG
2	5115.600	7.32	40.89	48.21	54.00	-5.79	AVG

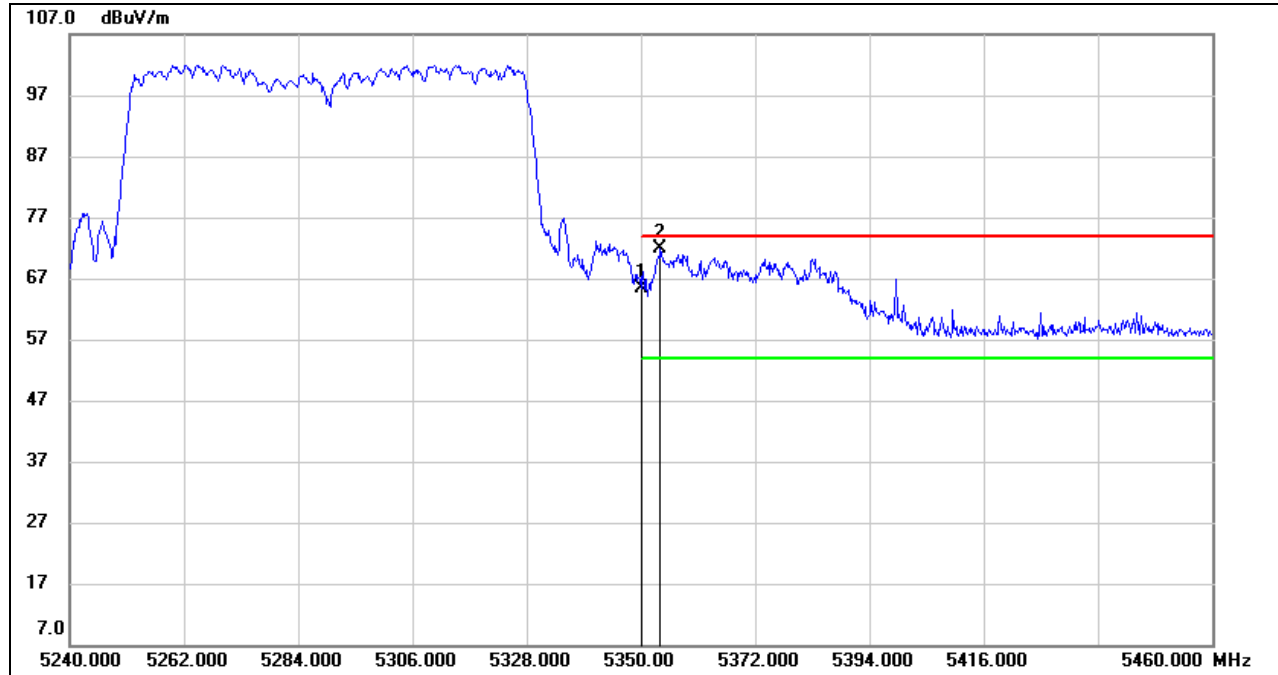
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data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



**UNII-2A BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

**PEAK**

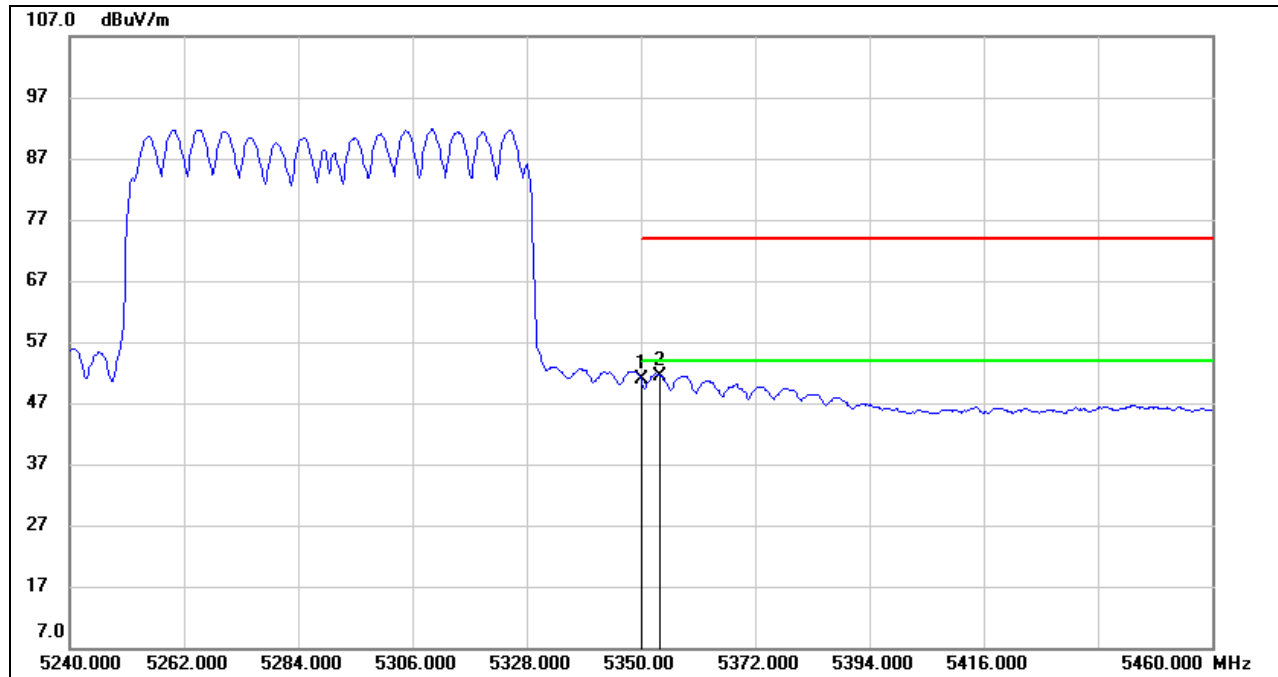


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	24.09	41.20	65.29	74.00	-8.71	peak
2	5353.740	30.60	41.22	71.82	74.00	-2.18	peak

- 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. 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	5350.000	9.78	41.20	50.98	54.00	-3.02	AVG
2	5353.740	10.25	41.22	51.47	54.00	-2.53	AVG

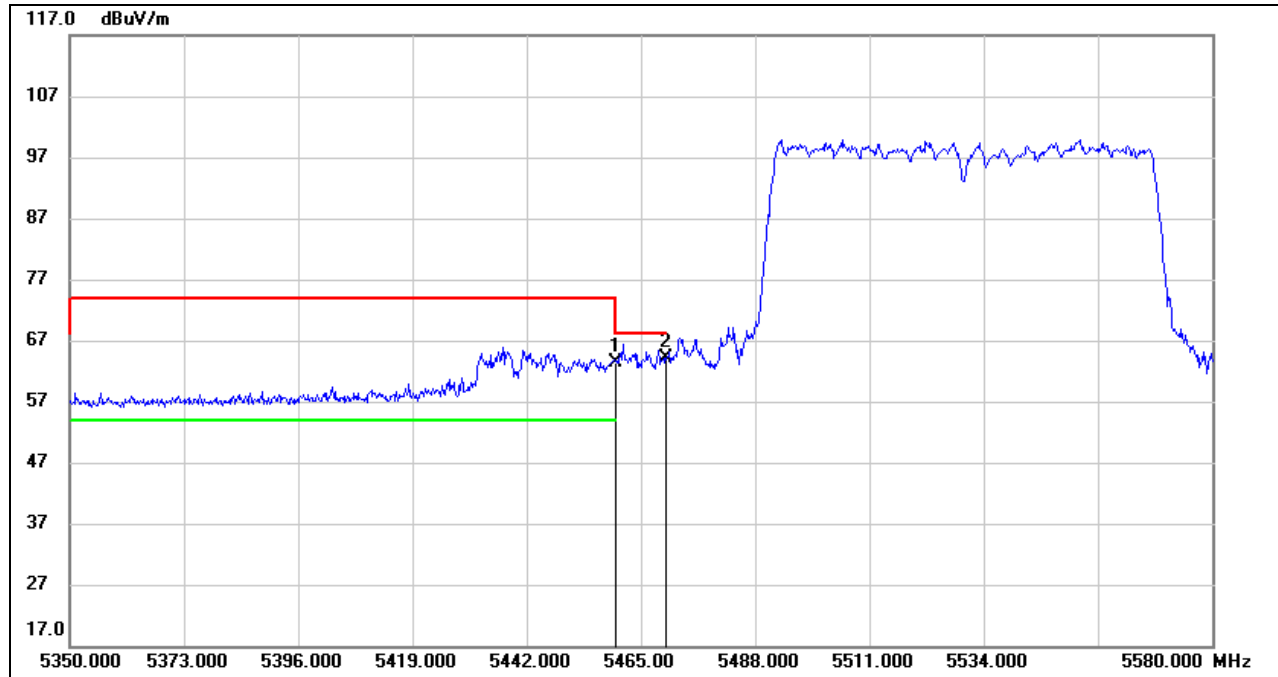
- Note: 1. Measurement = Reading Level + Correct Factor  
 2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
 3. For duty cycle, please refer to clause 7.1.  
 4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

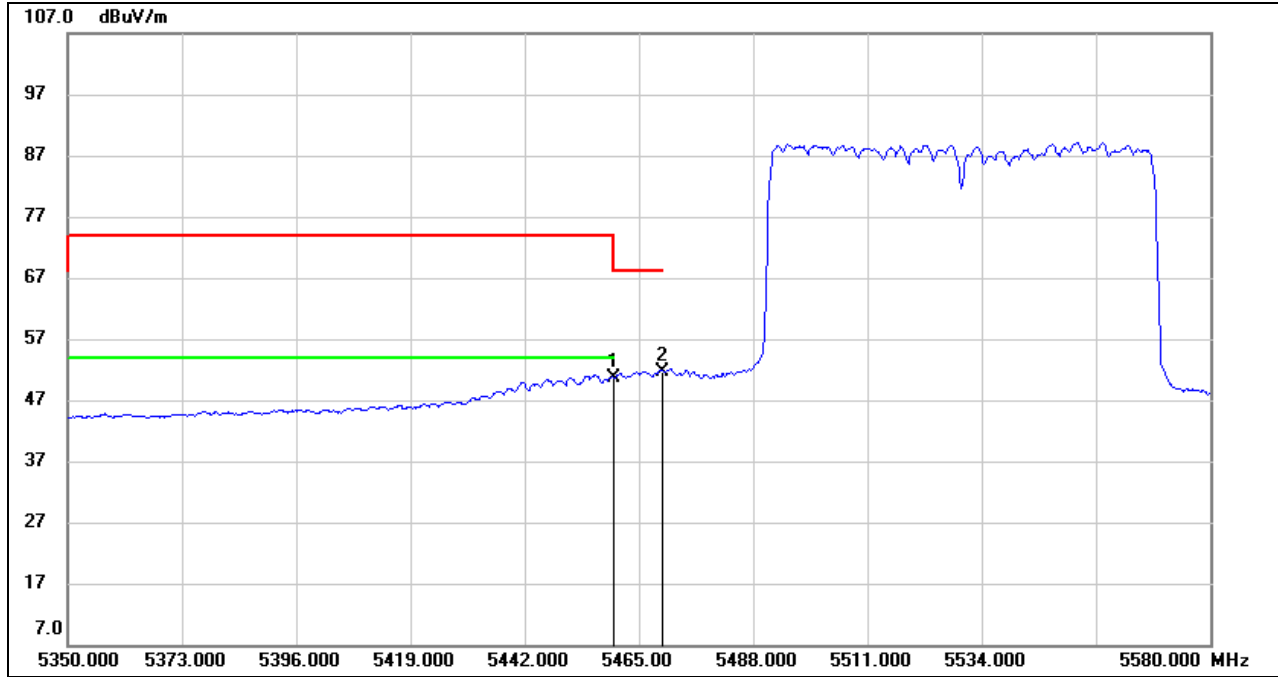
**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	21.61	41.82	63.43	68.20	-4.77	peak
2	5470.000	22.37	41.87	64.24	68.20	-3.96	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**



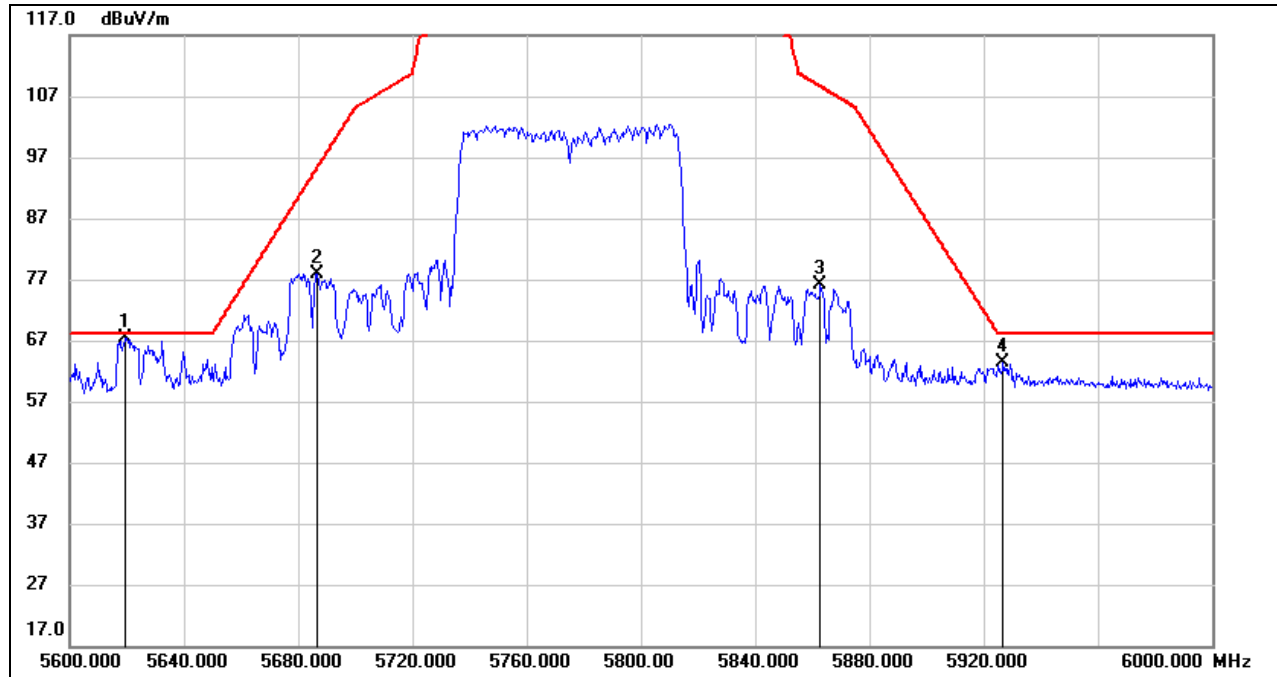
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	8.74	41.82	50.56	54.00	-3.44	AVG
2	5470.000	9.75	41.87	51.62	/	/	AVG

- 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. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**UNII-3 BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.600	25.74	41.69	67.43	68.20	-0.77	peak
2	5686.800	36.35	41.57	77.92	95.46	-17.54	peak
3	5862.800	33.41	42.66	76.07	108.61	-32.54	peak
4	5926.800	20.41	42.90	63.31	68.20	-4.89	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



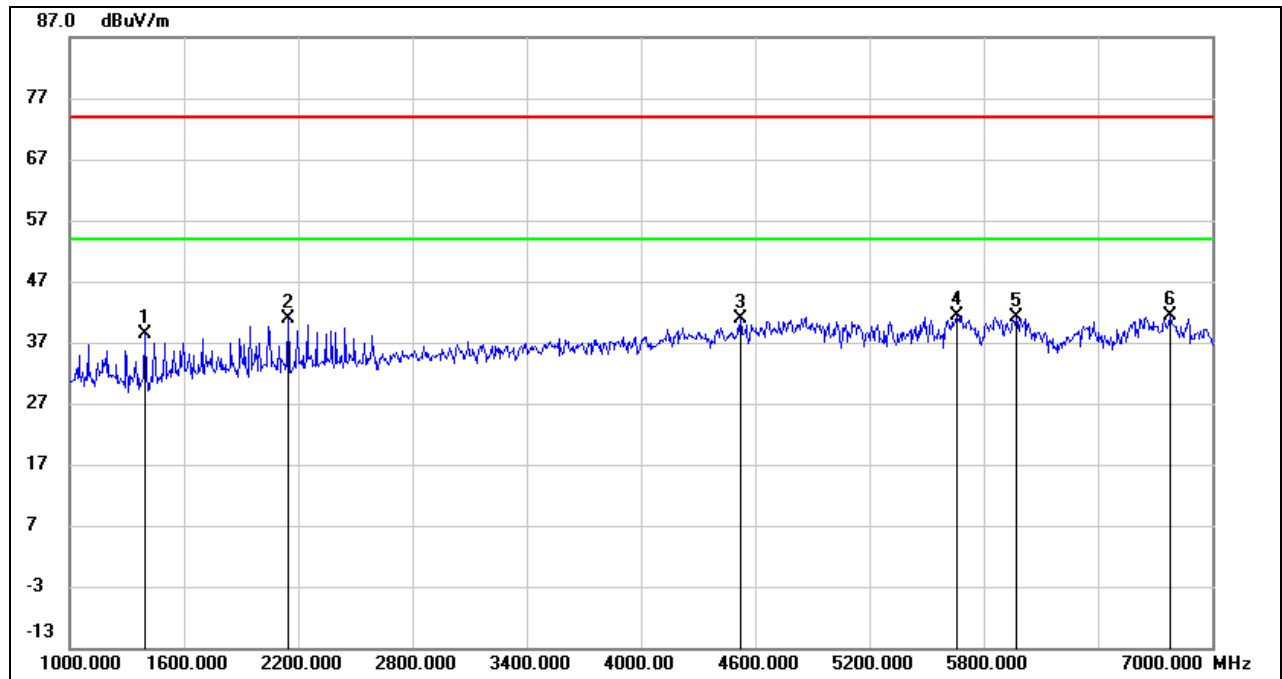
## 8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

### 8.2.1. 802.11n HT20 MIMO MODE

#### UNII-1 BAND

#### MIMO MODE TEST RESULTS (WORST CASE)

#### 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	1399.300	50.96	-12.70	38.26	74.00	-35.74	peak
2	2148.700	50.29	-9.34	40.95	74.00	-33.05	peak
3	4523.500	41.84	-1.08	40.76	74.00	-33.24	peak
4	5659.300	39.01	2.47	41.48	74.00	-32.52	peak
5	5978.500	37.92	3.21	41.13	74.00	-32.87	peak
6	6778.900	35.70	5.56	41.26	74.00	-32.74	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.

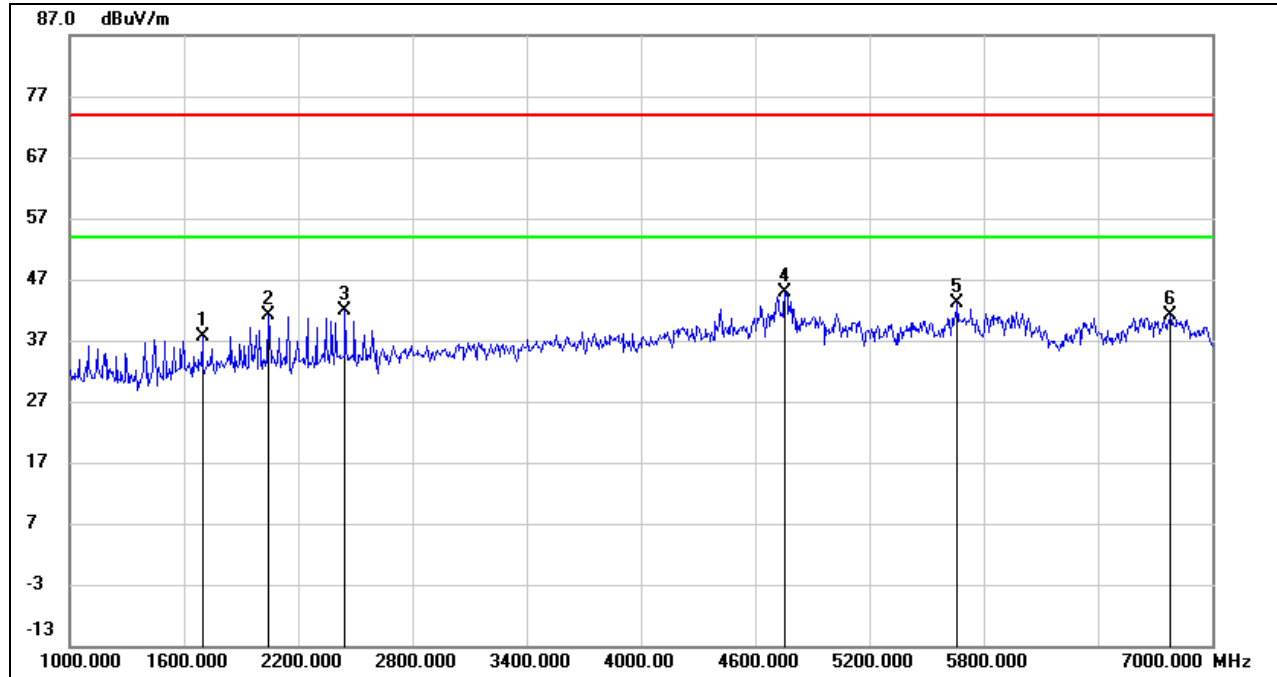
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

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

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

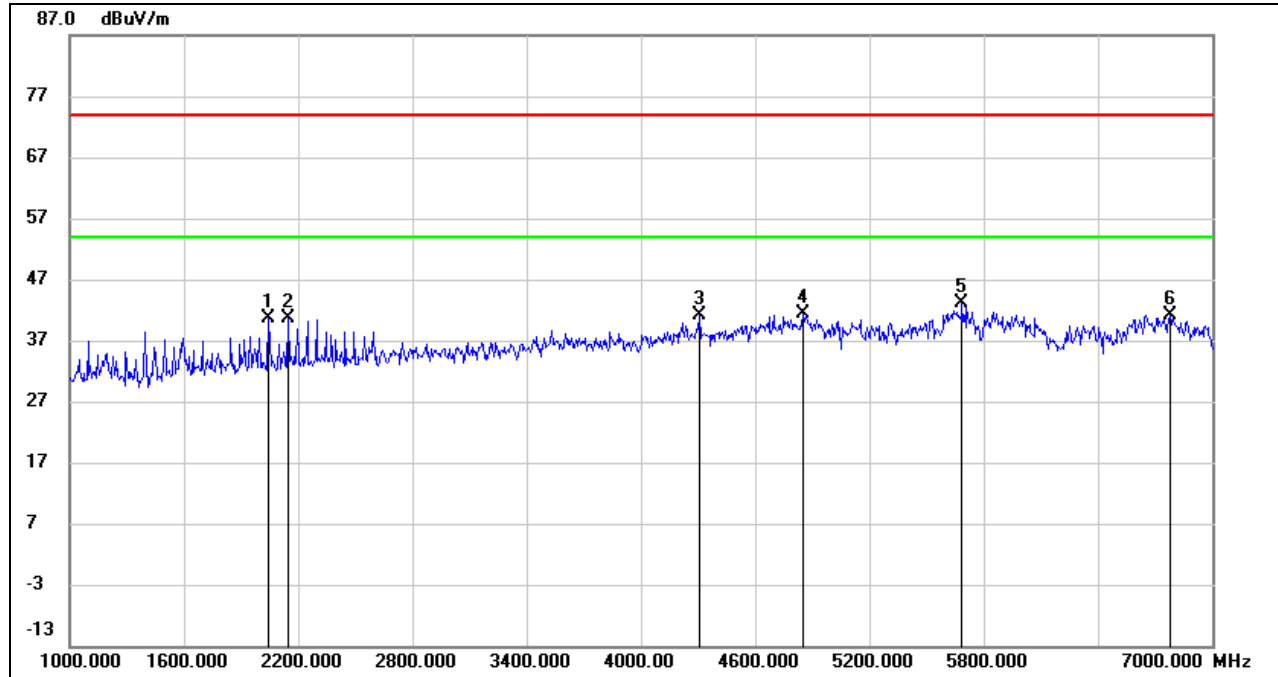


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1699.300	48.52	-10.81	37.71	74.00	-36.29	peak
2	2049.100	50.94	-9.91	41.03	74.00	-32.97	peak
3	2448.700	50.20	-8.31	41.89	74.00	-32.11	peak
4	4756.900	44.52	0.35	44.87	74.00	-29.13	peak
5	5662.000	40.74	2.47	43.21	74.00	-30.79	peak
6	6778.600	35.60	5.56	41.16	74.00	-32.84	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

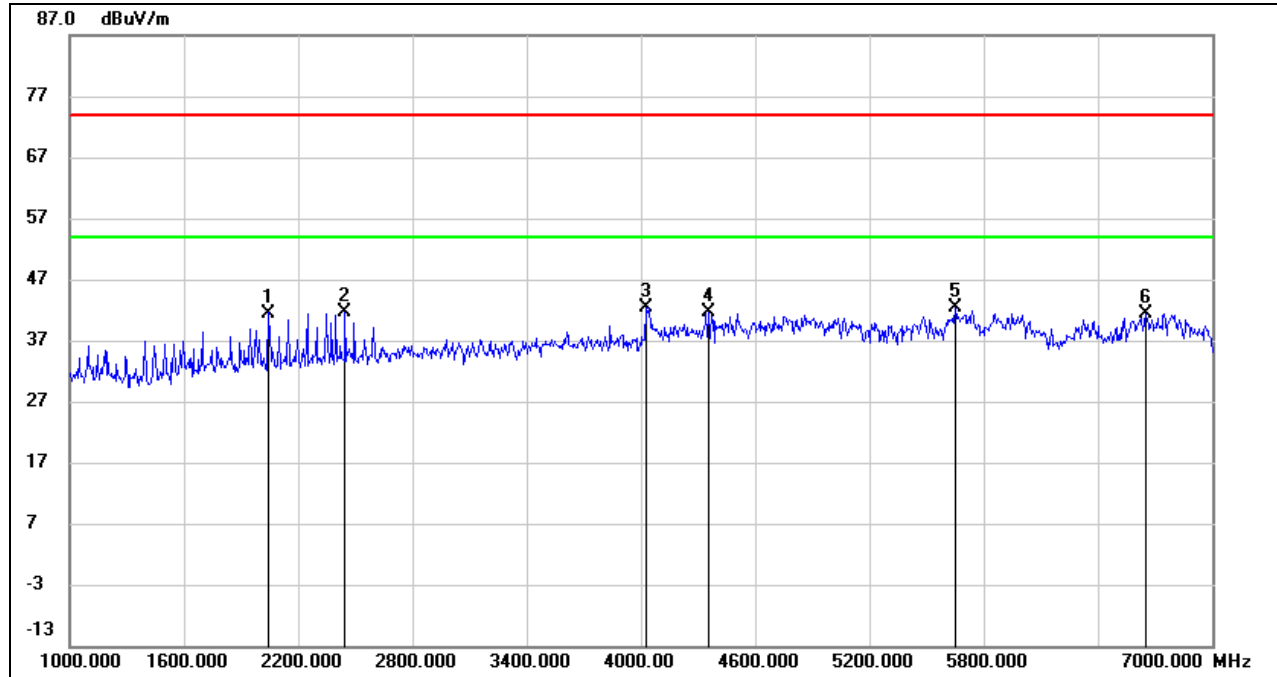


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2049.100	50.43	-9.91	40.52	74.00	-33.48	peak
2	2149.000	49.91	-9.34	40.57	74.00	-33.43	peak
3	4307.800	42.91	-1.78	41.13	74.00	-32.87	peak
4	4852.300	40.60	0.68	41.28	74.00	-32.72	peak
5	5691.400	40.55	2.48	43.03	74.00	-30.97	peak
6	6779.800	35.65	5.56	41.21	74.00	-32.79	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

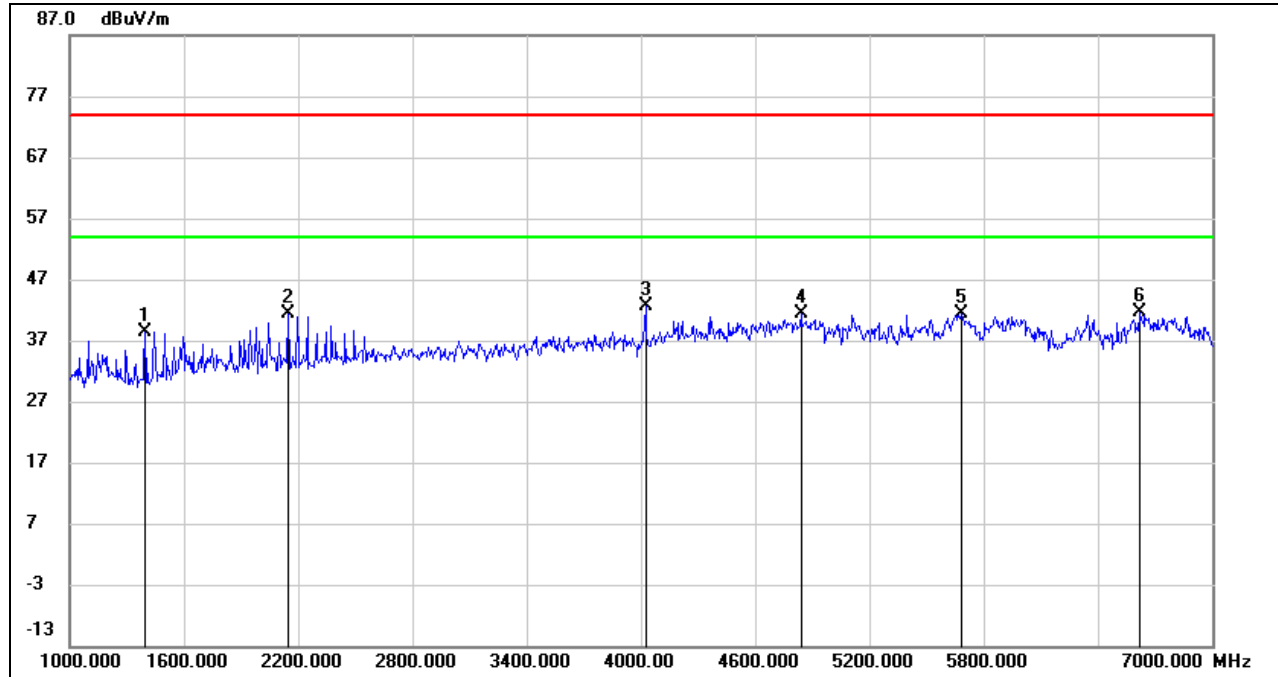


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2049.100	51.41	-9.91	41.50	74.00	-32.50	peak
2	2448.700	50.01	-8.31	41.70	74.00	-32.30	peak
3	4029.400	45.76	-3.33	42.43	74.00	-31.57	peak
4	4359.100	43.33	-1.82	41.51	74.00	-32.49	peak
5	5651.500	39.91	2.47	42.38	74.00	-31.62	peak
6	6657.100	35.98	5.52	41.50	74.00	-32.50	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

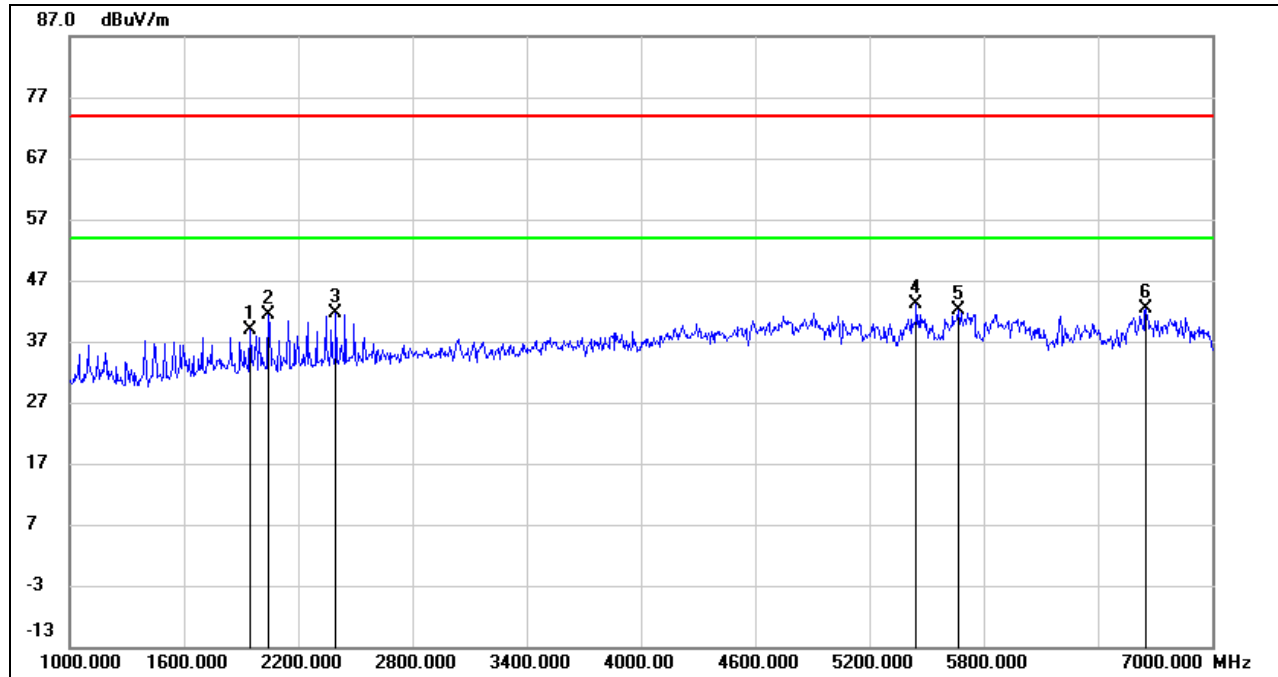


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.300	51.18	-12.70	38.48	74.00	-35.52	peak
2	2148.700	50.61	-9.34	41.27	74.00	-32.73	peak
3	4025.200	46.07	-3.37	42.70	74.00	-31.30	peak
4	4843.900	40.66	0.66	41.32	74.00	-32.68	peak
5	5686.000	38.90	2.47	41.37	74.00	-32.63	peak
6	6627.700	36.01	5.50	41.51	74.00	-32.49	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	1948.900	49.10	-10.15	38.95	74.00	-35.05	peak
2	2049.100	51.22	-9.91	41.31	74.00	-32.69	peak
3	2398.900	50.06	-8.40	41.66	74.00	-32.34	peak
4	5451.100	41.21	2.02	43.23	74.00	-30.77	peak
5	5671.600	39.62	2.48	42.10	74.00	-31.90	peak
6	6652.900	36.84	5.52	42.36	74.00	-31.64	peak

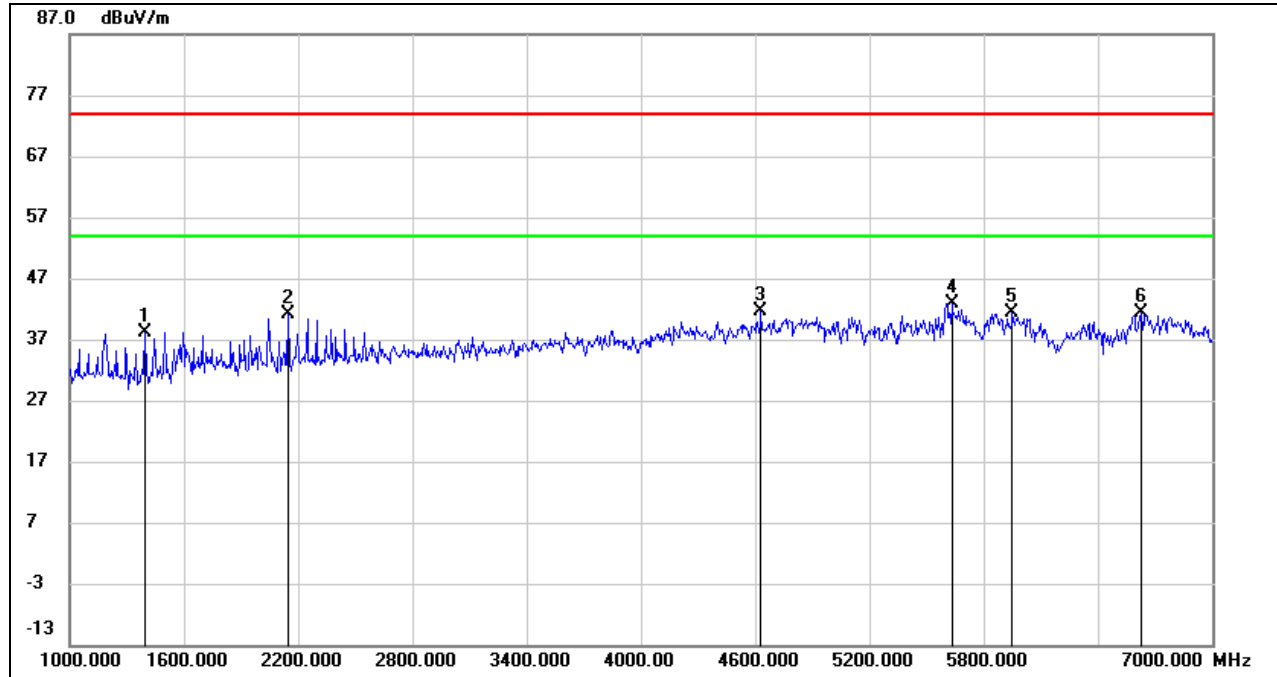
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-2A BAND**

**MIMO MODE TEST RESULTS (WORST CASE)**

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

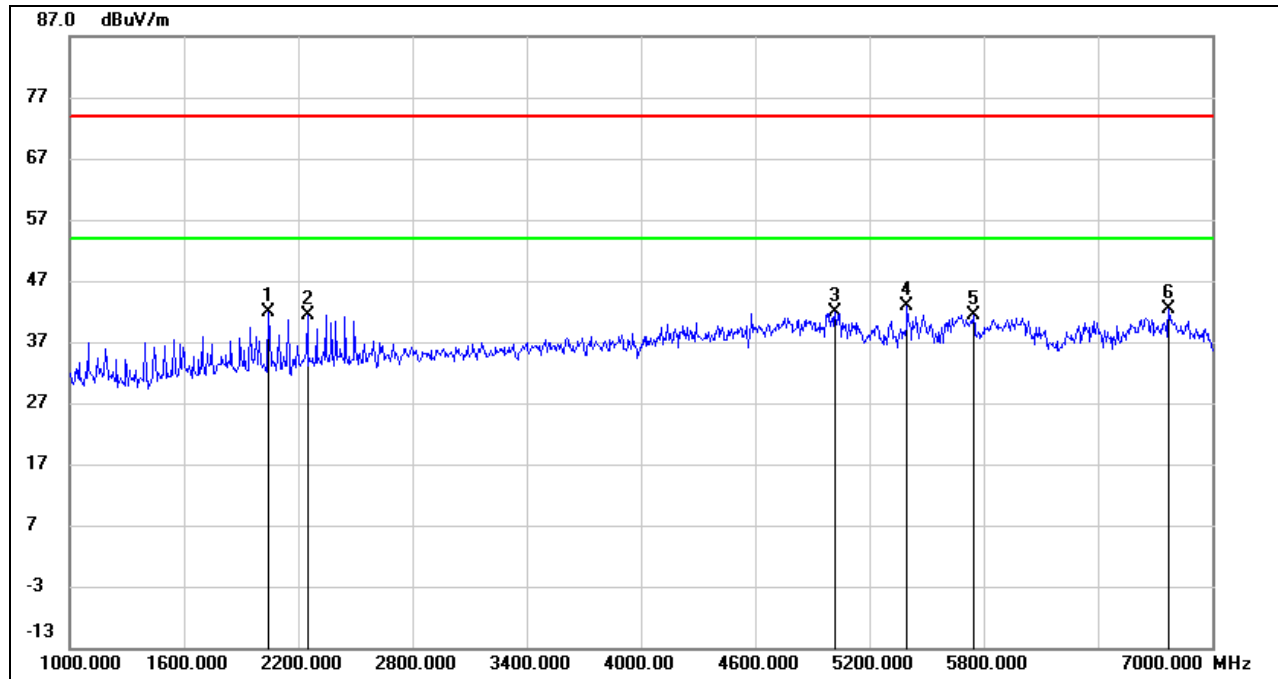


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.600	50.90	-12.70	38.20	74.00	-35.80	peak
2	2148.700	50.56	-9.34	41.22	74.00	-32.78	peak
3	4631.800	41.92	-0.38	41.54	74.00	-32.46	peak
4	5636.200	40.37	2.46	42.83	74.00	-31.17	peak
5	5953.600	38.29	3.12	41.41	74.00	-32.59	peak
6	6629.800	35.83	5.51	41.34	74.00	-32.66	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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



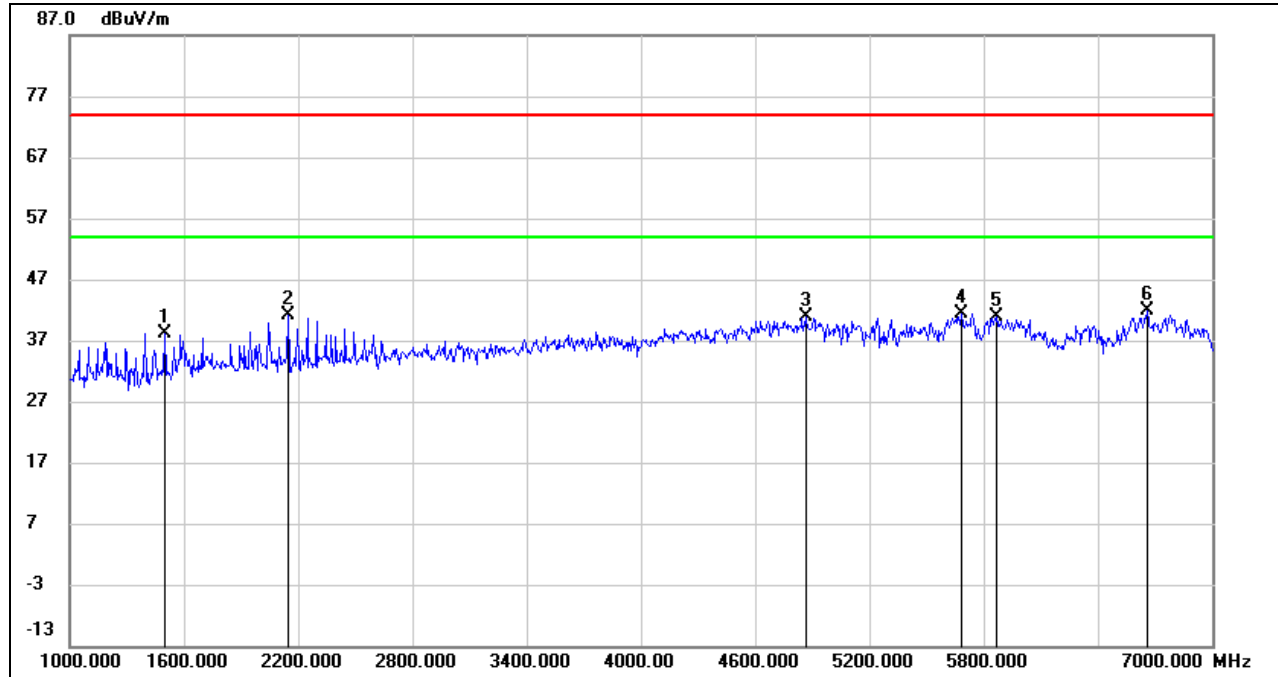
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2048.800	51.88	-9.91	41.97	74.00	-32.03	peak
2	2249.500	50.30	-8.89	41.41	74.00	-32.59	peak
3	5022.100	40.91	1.04	41.95	74.00	-32.05	peak
4	5401.300	41.04	1.87	42.91	74.00	-31.09	peak
5	5748.100	38.82	2.49	41.31	74.00	-32.69	peak
6	6777.400	36.89	5.57	42.46	74.00	-31.54	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





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

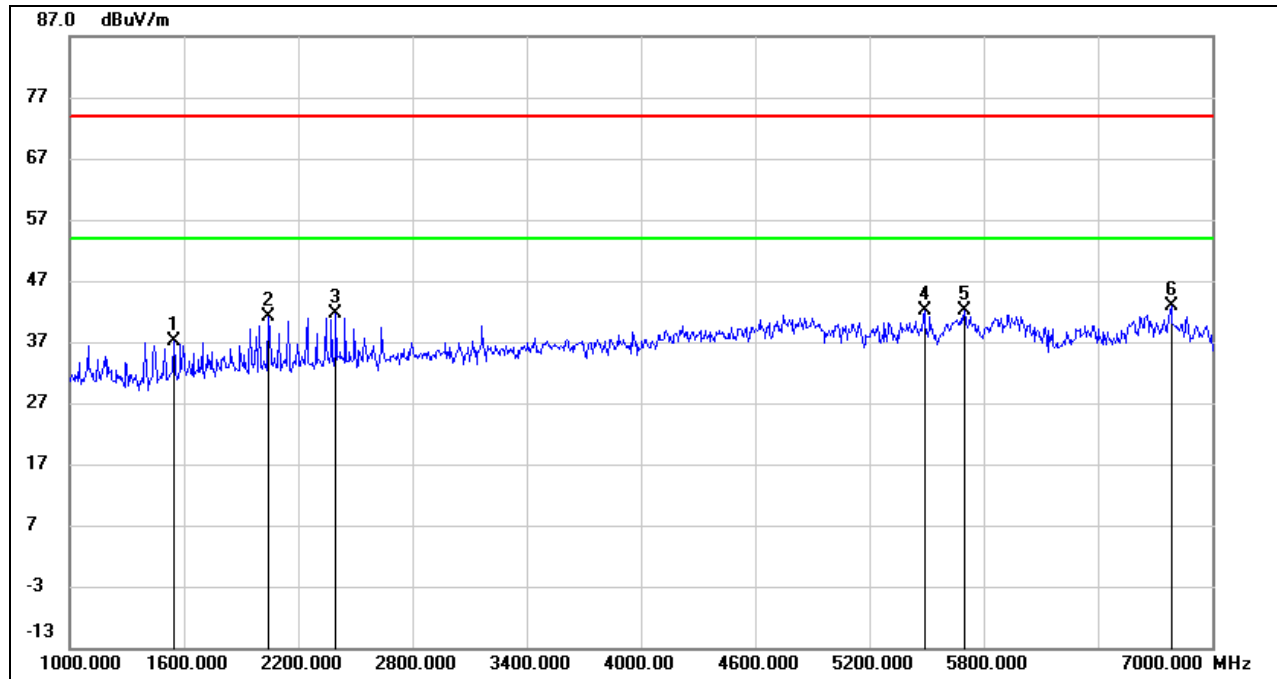


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1499.800	50.31	-12.23	38.08	74.00	-35.92	peak
2	2149.300	50.46	-9.34	41.12	74.00	-32.88	peak
3	4865.800	40.26	0.69	40.95	74.00	-33.05	peak
4	5684.500	38.88	2.47	41.35	74.00	-32.65	peak
5	5866.900	38.07	2.77	40.84	74.00	-33.16	peak
6	6658.600	36.30	5.52	41.82	74.00	-32.18	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

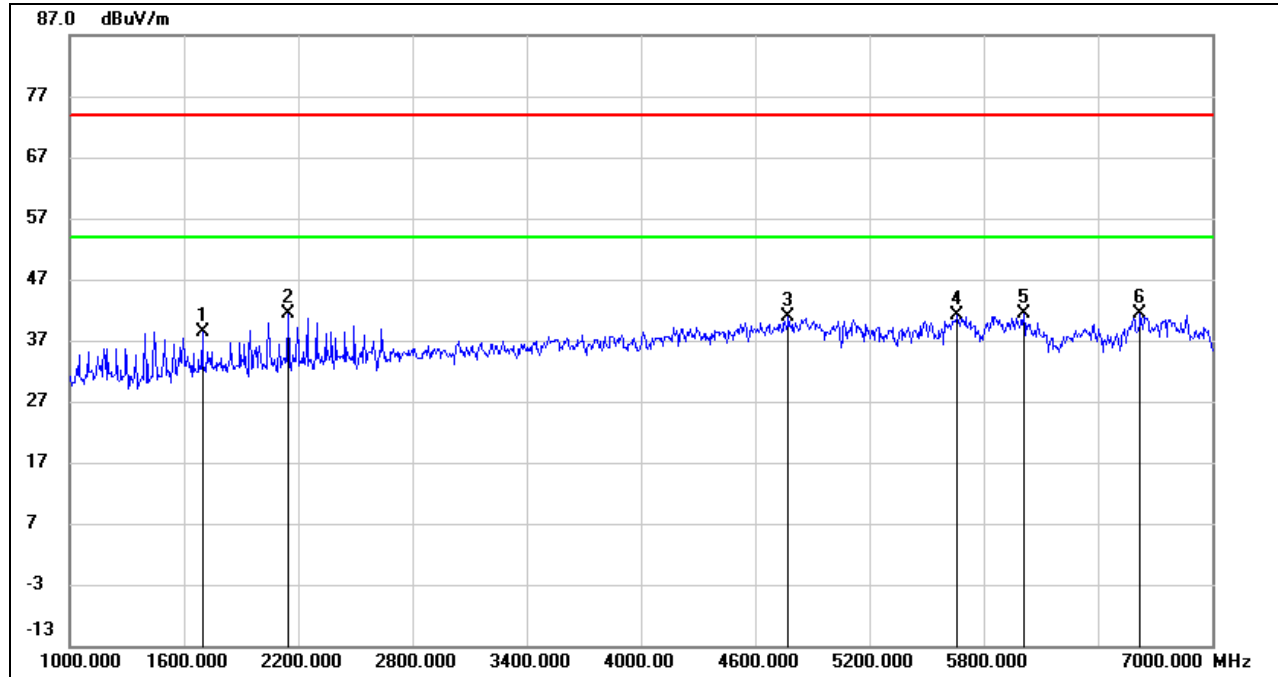


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1549.600	48.94	-11.90	37.04	74.00	-36.96	peak
2	2049.100	51.02	-9.91	41.11	74.00	-32.89	peak
3	2398.600	49.94	-8.40	41.54	74.00	-32.46	peak
4	5488.300	40.02	2.13	42.15	74.00	-31.85	peak
5	5699.800	39.66	2.49	42.15	74.00	-31.85	peak
6	6784.000	37.37	5.56	42.93	74.00	-31.07	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

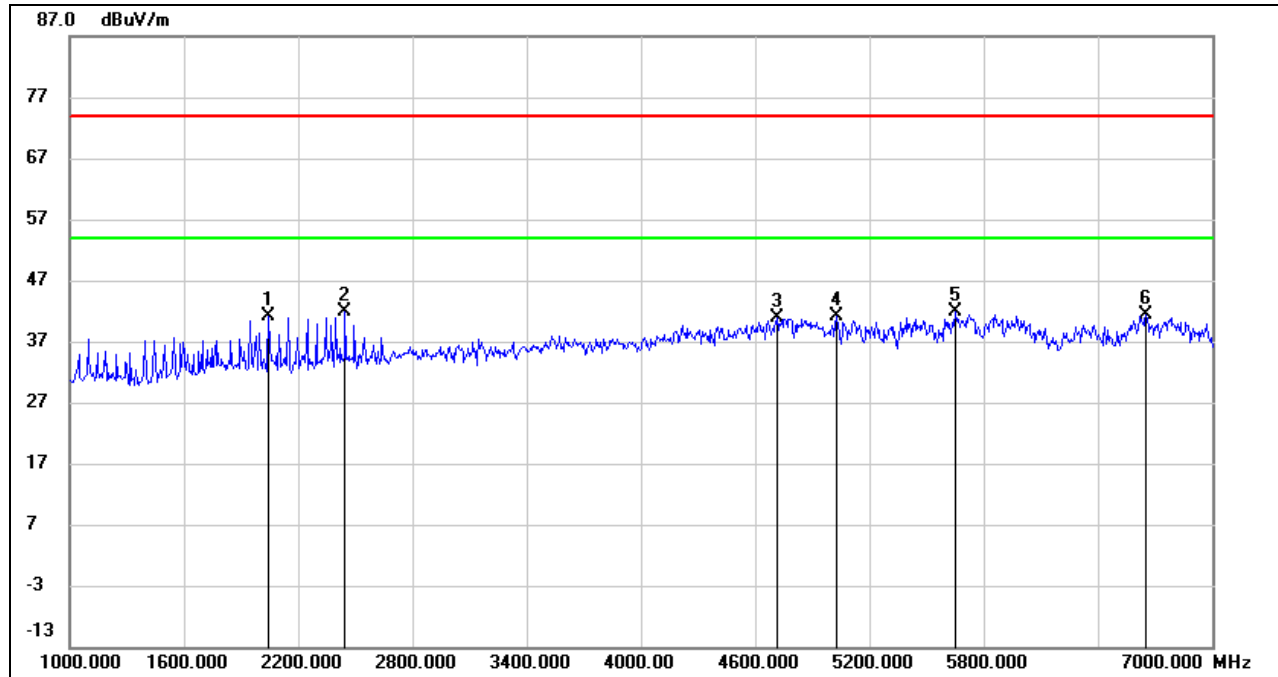


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1699.000	49.31	-10.81	38.50	74.00	-35.50	peak
2	2149.000	50.78	-9.34	41.44	74.00	-32.56	peak
3	4777.900	40.53	0.46	40.99	74.00	-33.01	peak
4	5662.000	38.59	2.47	41.06	74.00	-32.94	peak
5	6010.300	38.15	3.31	41.46	74.00	-32.54	peak
6	6626.200	35.81	5.51	41.32	74.00	-32.68	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	2048.800	51.11	-9.91	41.20	74.00	-32.80	peak
2	2448.700	50.26	-8.31	41.95	74.00	-32.05	peak
3	4716.100	40.74	0.11	40.85	74.00	-33.15	peak
4	5028.100	39.94	1.07	41.01	74.00	-32.99	peak
5	5650.900	39.43	2.47	41.90	74.00	-32.10	peak
6	6657.700	35.95	5.51	41.46	74.00	-32.54	peak

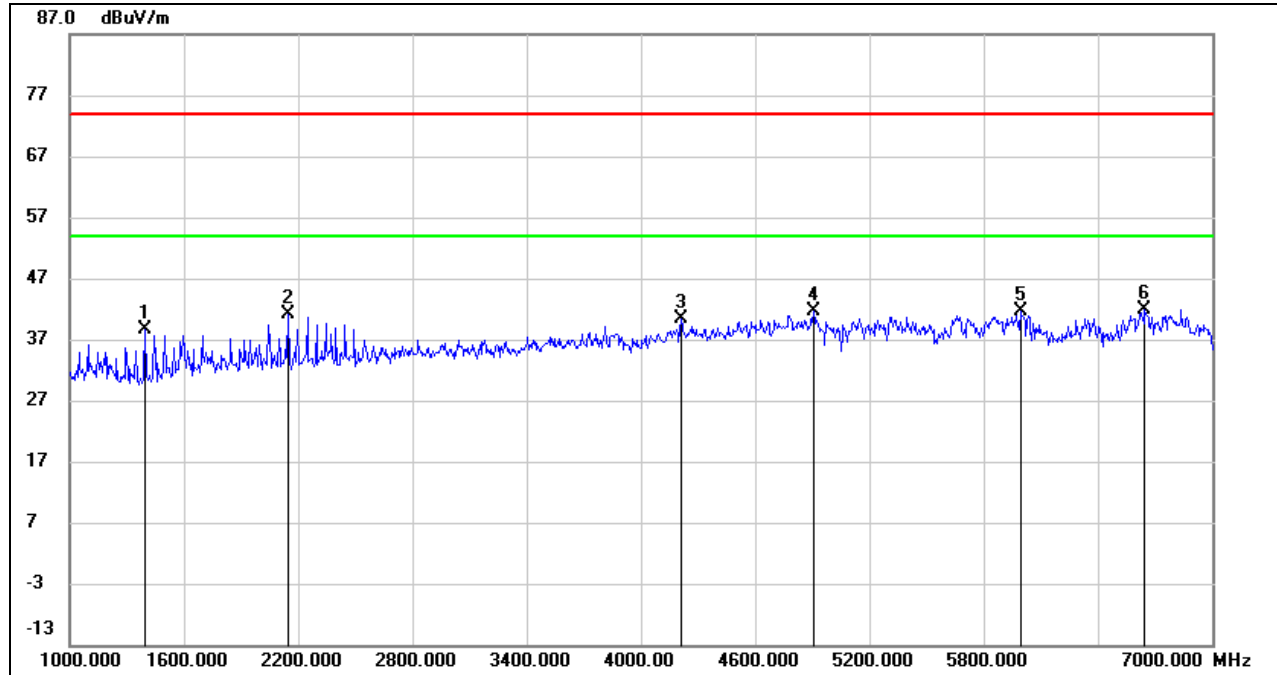
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-2C BAND**

**MIMO MODE TEST RESULTS (WORST CASE)**

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

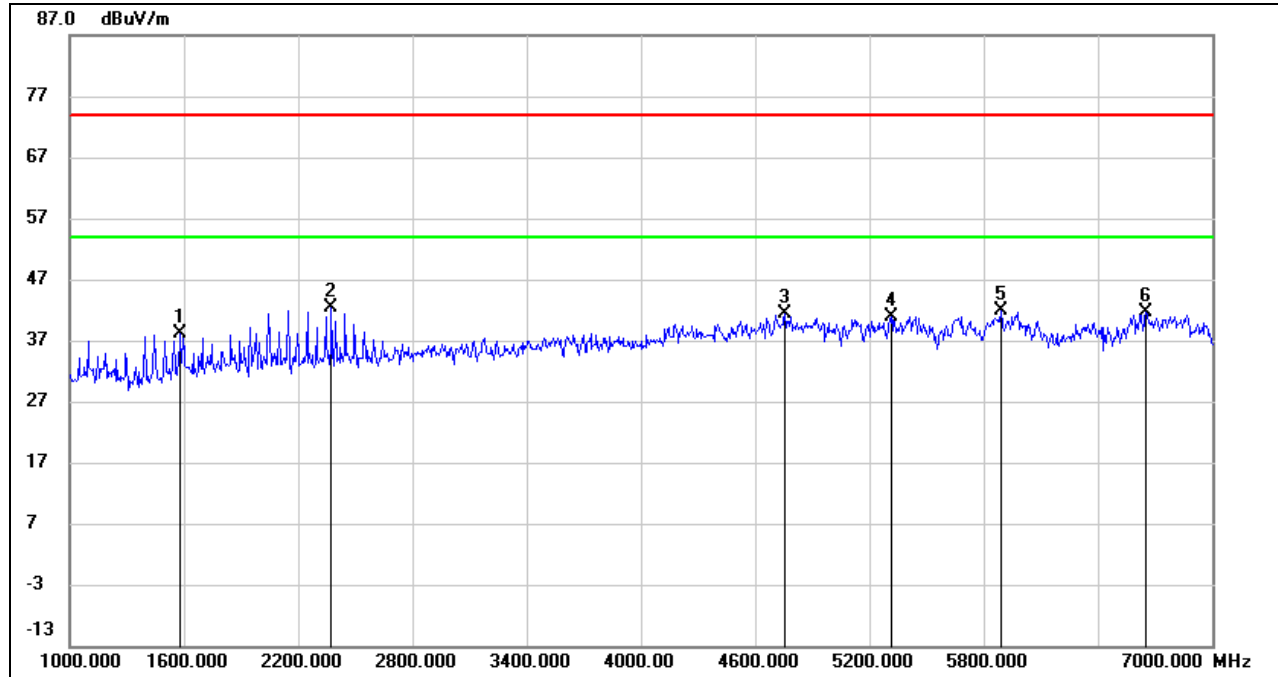


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.600	51.32	-12.70	38.62	74.00	-35.38	peak
2	2149.000	50.39	-9.34	41.05	74.00	-32.95	peak
3	4210.900	42.10	-1.68	40.42	74.00	-33.58	peak
4	4910.800	40.86	0.76	41.62	74.00	-32.38	peak
5	5997.700	38.22	3.29	41.51	74.00	-32.49	peak
6	6649.600	36.42	5.52	41.94	74.00	-32.06	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

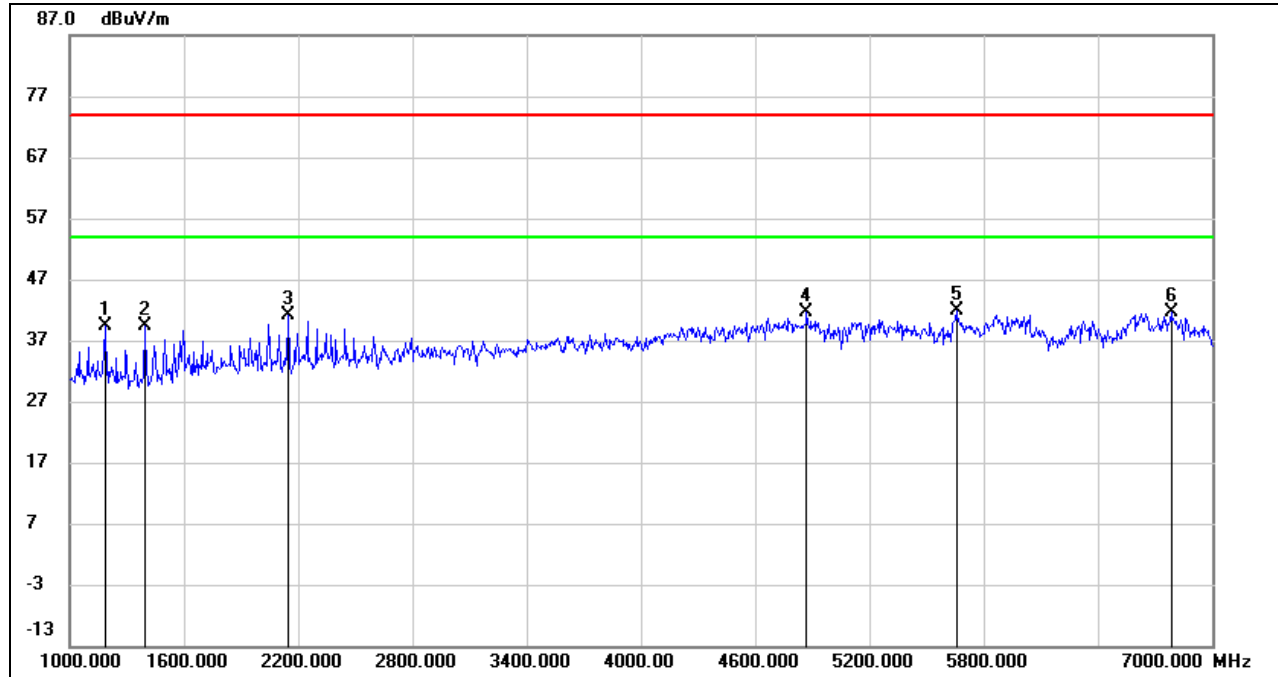


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1584.100	49.82	-11.66	38.16	74.00	-35.84	peak
2	2375.800	50.73	-8.47	42.26	74.00	-31.74	peak
3	4760.500	40.94	0.35	41.29	74.00	-32.71	peak
4	5317.300	38.99	1.97	40.96	74.00	-33.04	peak
5	5890.000	38.89	2.87	41.76	74.00	-32.24	peak
6	6655.000	36.18	5.52	41.70	74.00	-32.30	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.  
 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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

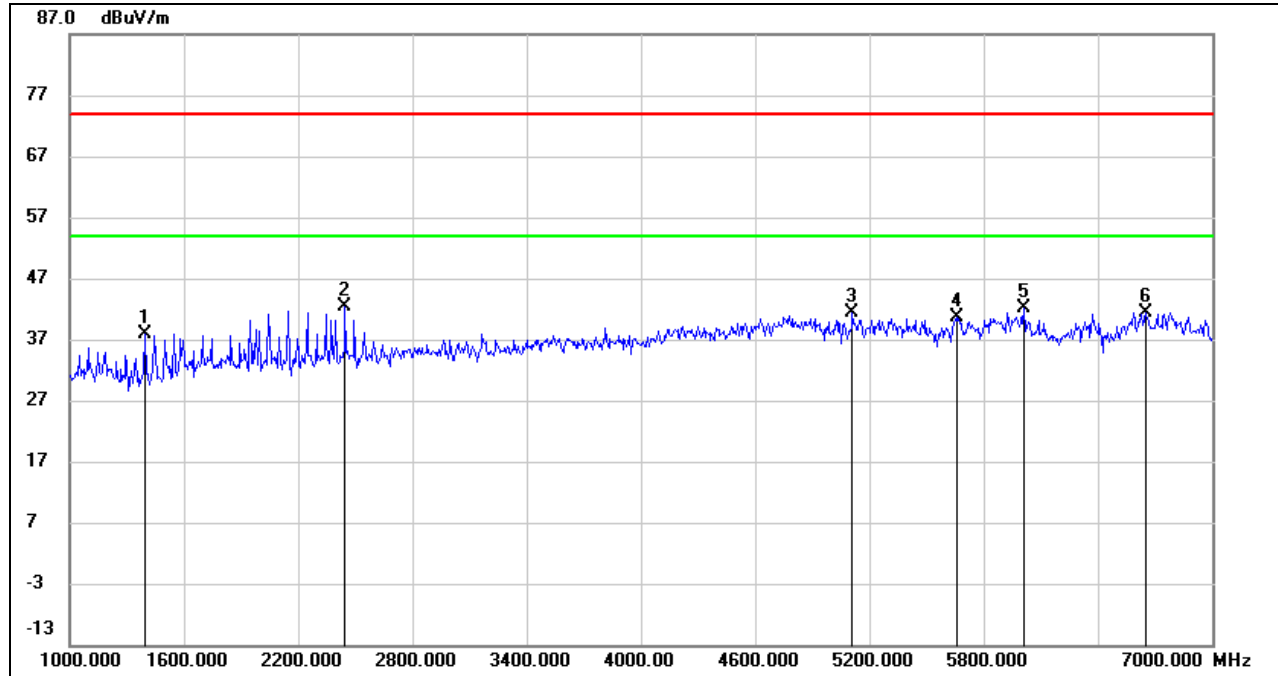


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1188.100	52.41	-13.05	39.36	74.00	-34.64	peak
2	1399.000	51.97	-12.70	39.27	74.00	-34.73	peak
3	2149.300	50.53	-9.34	41.19	74.00	-32.81	peak
4	4871.200	40.98	0.70	41.68	74.00	-32.32	peak
5	5661.400	39.38	2.47	41.85	74.00	-32.15	peak
6	6785.500	36.04	5.57	41.61	74.00	-32.39	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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



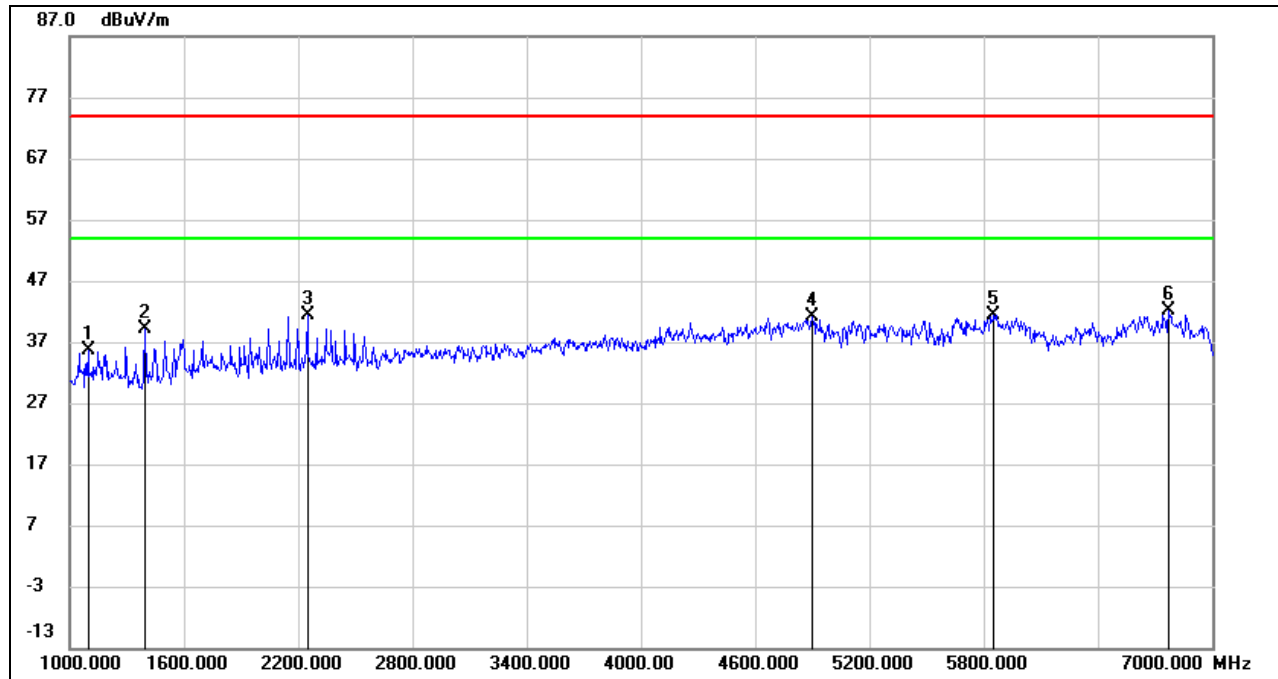
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.600	50.62	-12.70	37.92	74.00	-36.08	peak
2	2448.700	50.59	-8.31	42.28	74.00	-31.72	peak
3	5113.000	39.89	1.59	41.48	74.00	-32.52	peak
4	5665.900	38.19	2.48	40.67	74.00	-33.33	peak
5	6013.300	38.79	3.30	42.09	74.00	-31.91	peak
6	6657.100	35.92	5.52	41.44	74.00	-32.56	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





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

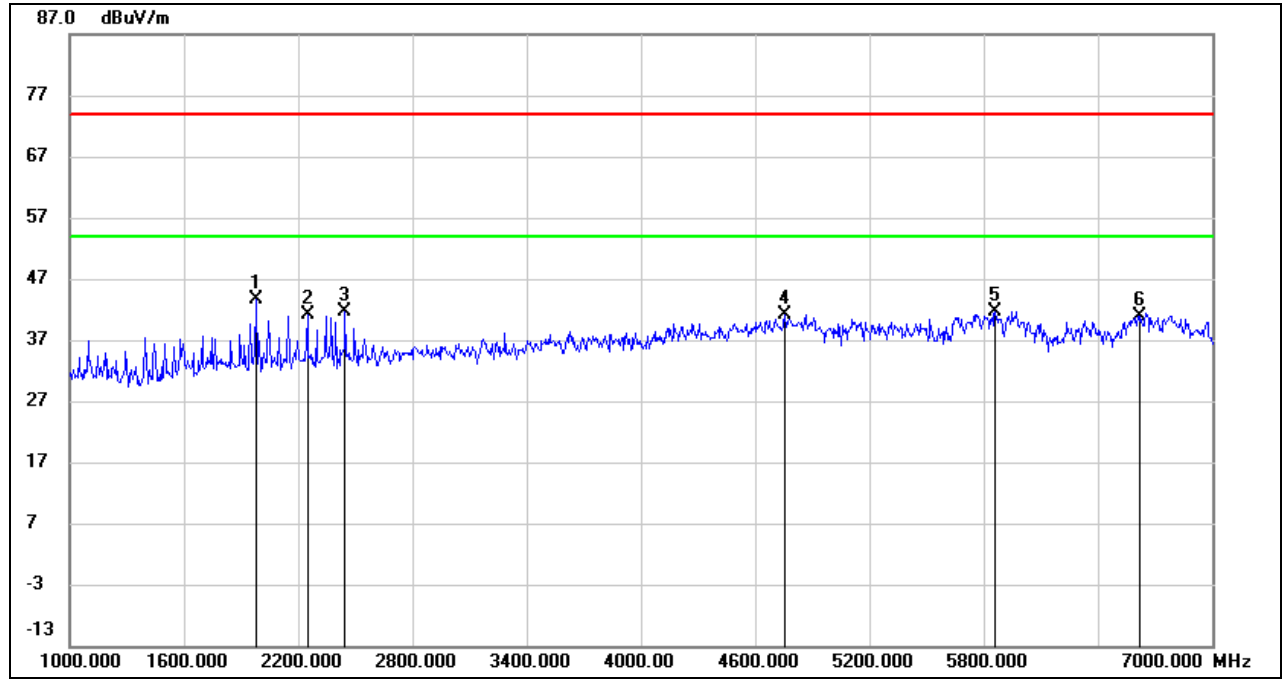


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1099.900	49.12	-13.49	35.63	74.00	-38.37	peak
2	1399.600	51.90	-12.70	39.20	74.00	-34.80	peak
3	2248.900	50.37	-8.89	41.48	74.00	-32.52	peak
4	4905.700	40.29	0.75	41.04	74.00	-32.96	peak
5	5859.400	38.55	2.75	41.30	74.00	-32.70	peak
6	6774.400	36.60	5.56	42.16	74.00	-31.84	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	1979.800	53.80	-10.18	43.62	74.00	-30.38	peak
2	2248.900	50.06	-8.89	41.17	74.00	-32.83	peak
3	2449.000	49.91	-8.31	41.60	74.00	-32.40	peak
4	4756.900	40.88	0.35	41.23	74.00	-32.77	peak
5	5865.400	38.81	2.77	41.58	74.00	-32.42	peak
6	6622.900	35.33	5.50	40.83	74.00	-33.17	peak

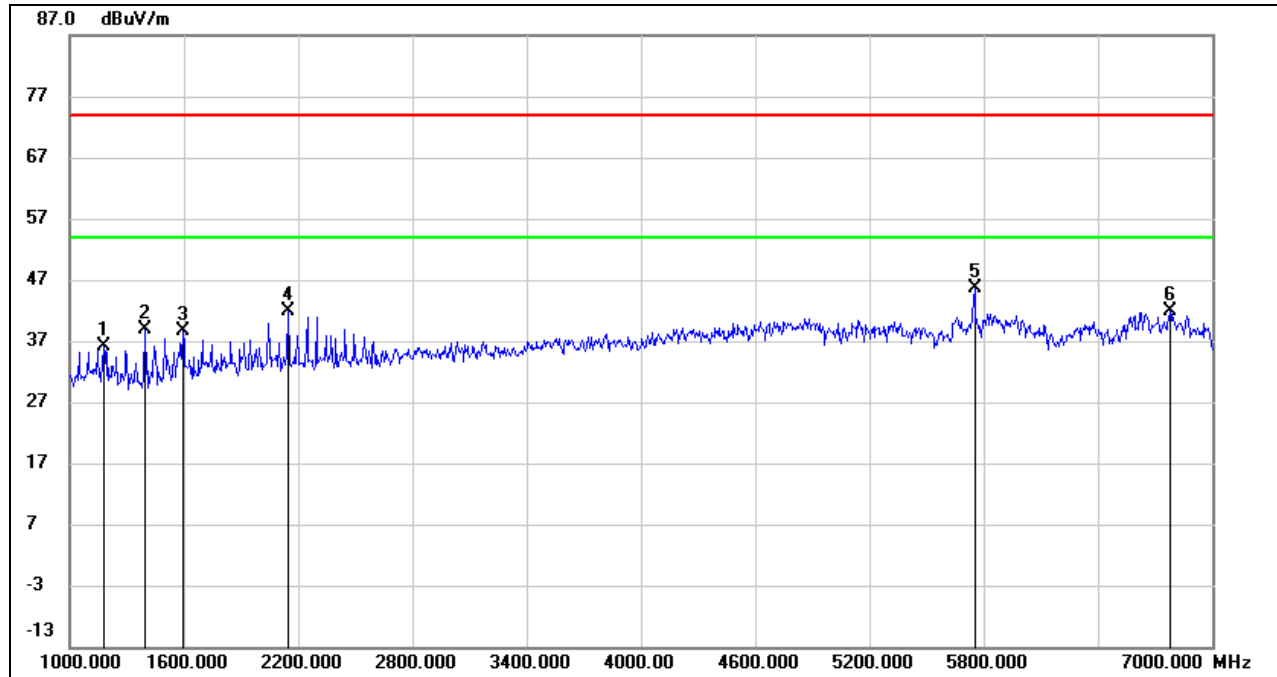
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**STRADDLE CHANNEL 144**

**MIMO MODE TEST RESULTS (WORST CASE)**

**HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)**

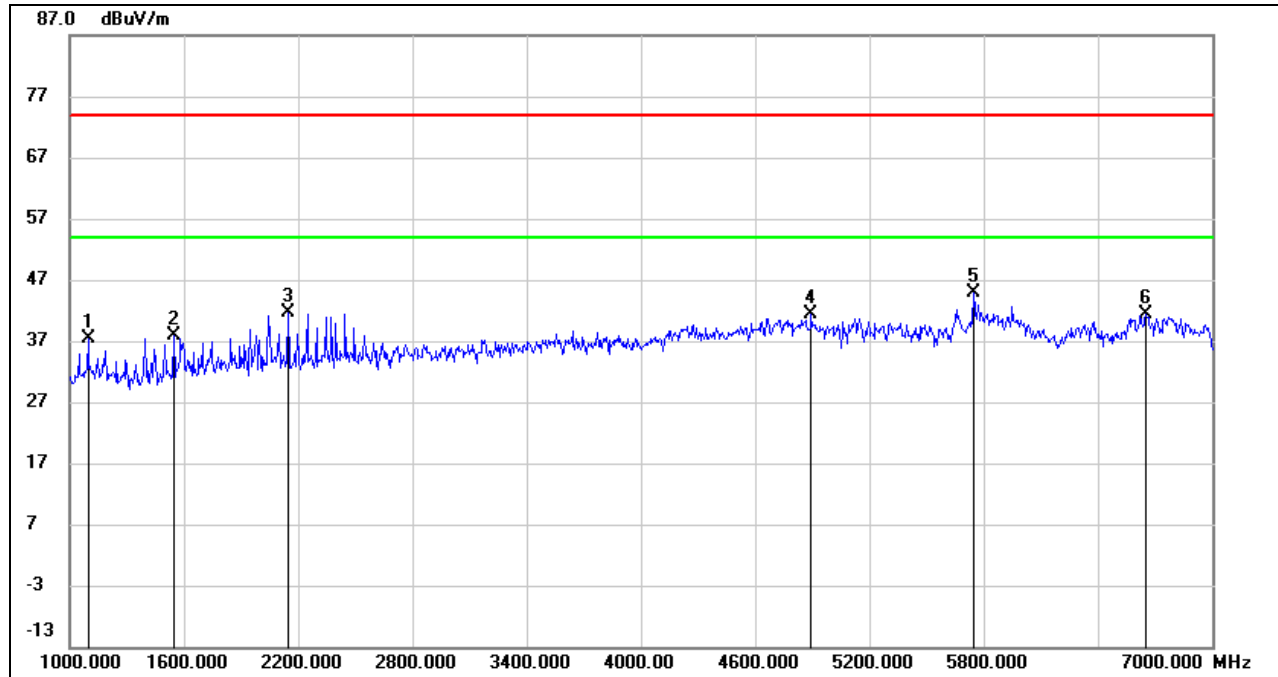


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1185.100	49.22	-13.07	36.15	74.00	-37.85	peak
2	1399.600	51.46	-12.70	38.76	74.00	-35.24	peak
3	1599.400	50.09	-11.56	38.53	74.00	-35.47	peak
4	2148.700	51.17	-9.34	41.83	74.00	-32.17	peak
5	5755.600	43.12	2.50	45.62	74.00	-28.38	peak
6	6783.400	36.26	5.56	41.82	74.00	-32.18	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1099.900	50.94	-13.49	37.45	74.00	-36.55	peak
2	1548.700	49.75	-11.90	37.85	74.00	-36.15	peak
3	2149.000	51.04	-9.34	41.70	74.00	-32.30	peak
4	4896.100	40.64	0.74	41.38	74.00	-32.62	peak
5	5749.000	42.37	2.49	44.86	74.00	-29.14	peak
6	6655.000	35.82	5.52	41.34	74.00	-32.66	peak

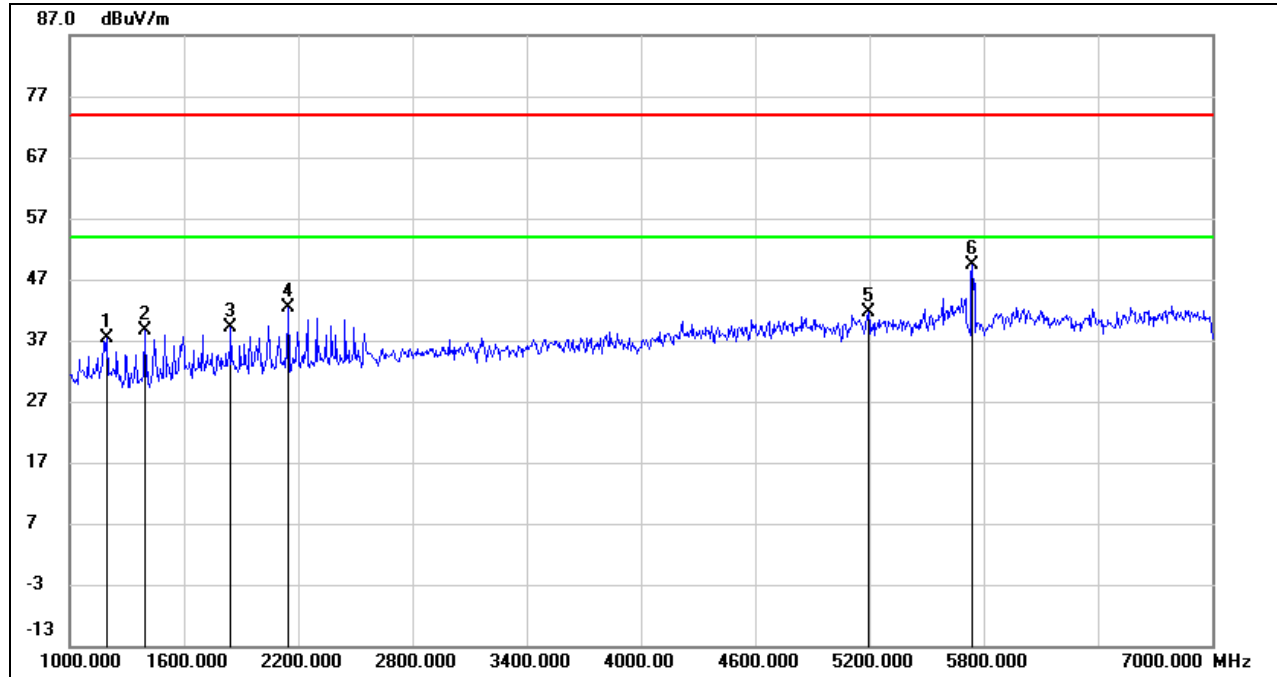
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-3 BAND**

**MIMO MODE TEST RESULTS (WORST CASE)**

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

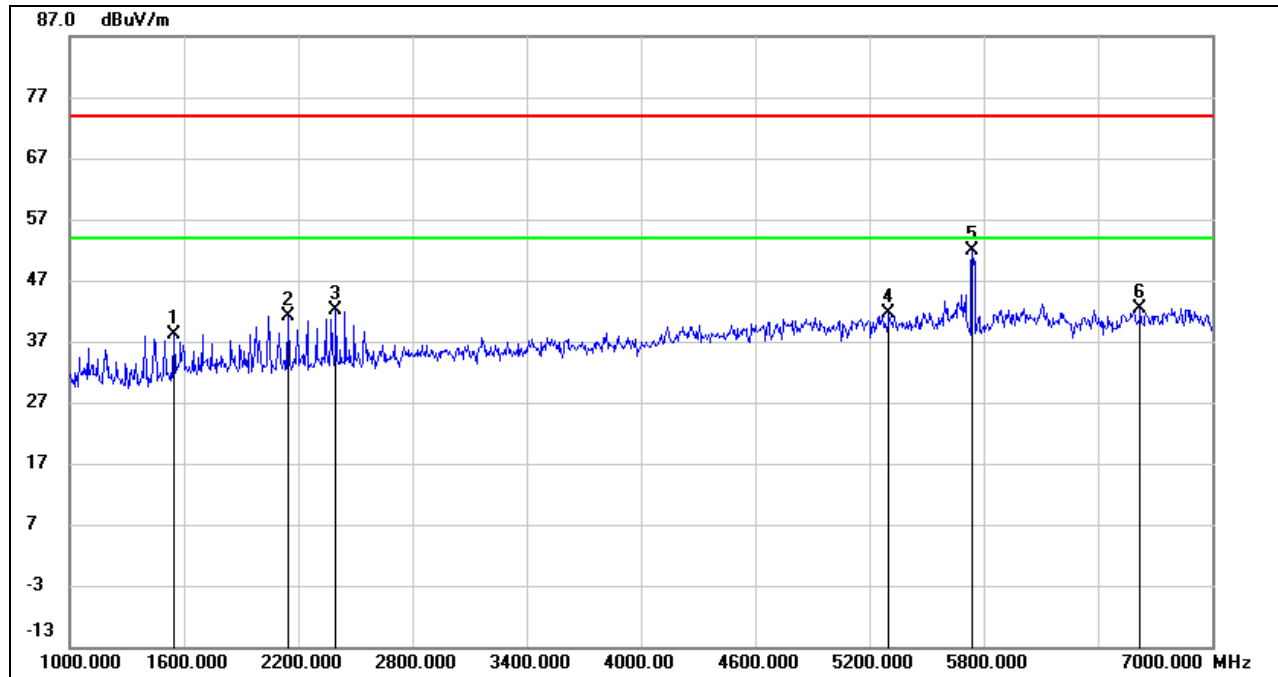


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1199.200	50.32	-12.99	37.33	74.00	-36.67	peak
2	1399.300	51.35	-12.70	38.65	74.00	-35.35	peak
3	1849.300	49.20	-10.08	39.12	74.00	-34.88	peak
4	2148.700	51.75	-9.34	42.41	74.00	-31.59	peak
5	5194.900	39.58	2.07	41.65	74.00	-32.35	peak
6	5745.000	46.91	2.49	49.40	74.00	-24.60	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

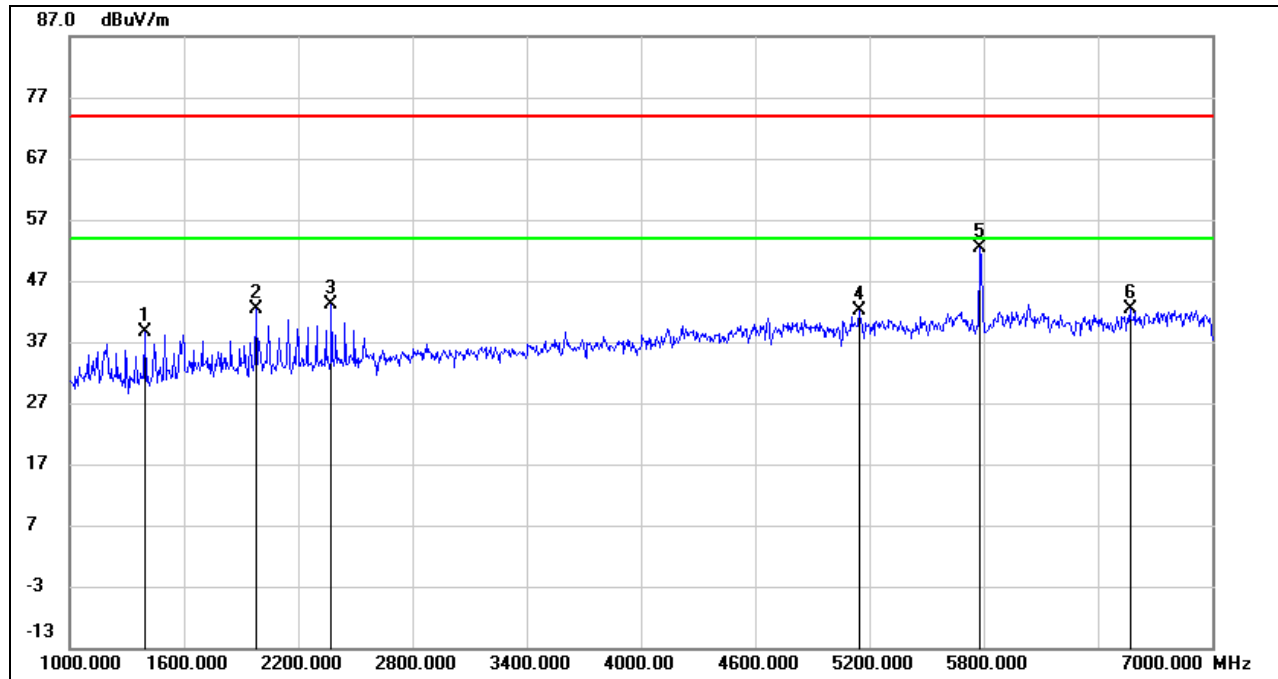


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1549.000	50.11	-11.90	38.21	74.00	-35.79	peak
2	2149.000	50.55	-9.34	41.21	74.00	-32.79	peak
3	2398.600	50.56	-8.40	42.16	74.00	-31.84	peak
4	5304.700	39.53	1.98	41.51	74.00	-32.49	peak
5	5745.000	49.33	2.49	51.82	74.00	-22.18	peak
6	6625.600	36.80	5.51	42.31	74.00	-31.69	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

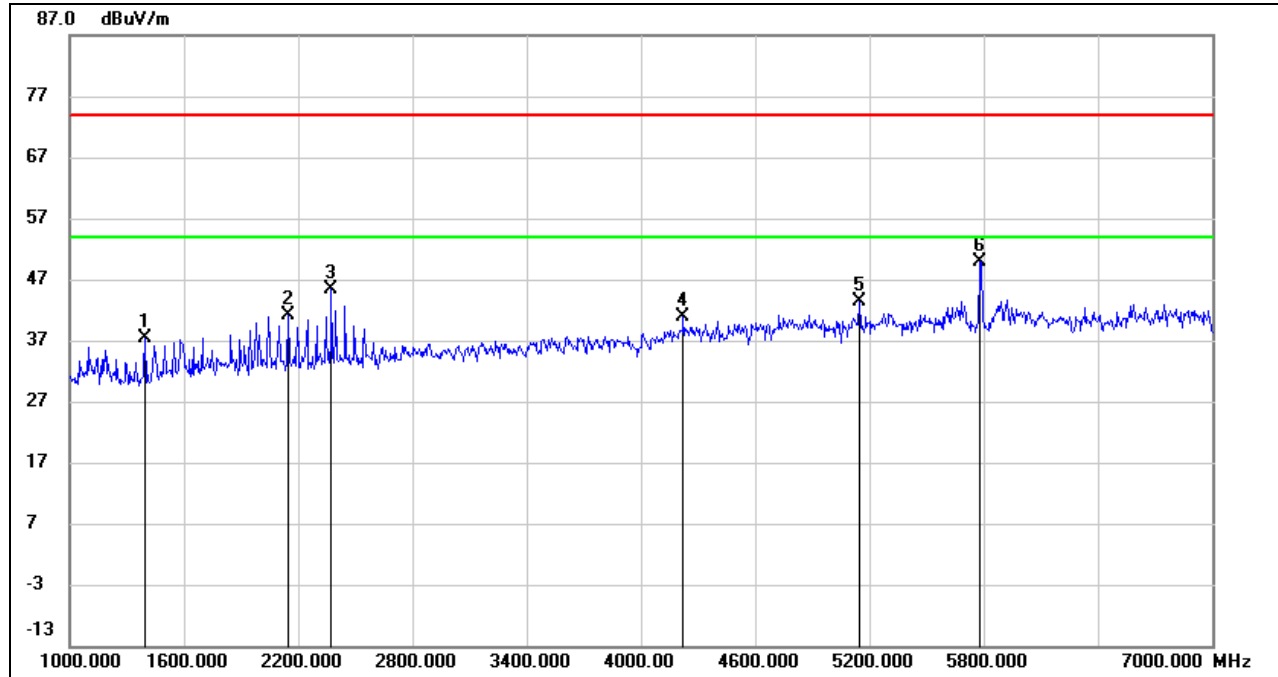


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.300	51.42	-12.70	38.72	74.00	-35.28	peak
2	1979.800	52.65	-10.18	42.47	74.00	-31.53	peak
3	2375.500	51.69	-8.47	43.22	74.00	-30.78	peak
4	5147.500	40.23	1.79	42.02	74.00	-31.98	peak
5	5783.500	49.94	2.50	52.44	74.00	-21.56	peak
6	6572.500	37.12	5.34	42.46	74.00	-31.54	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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



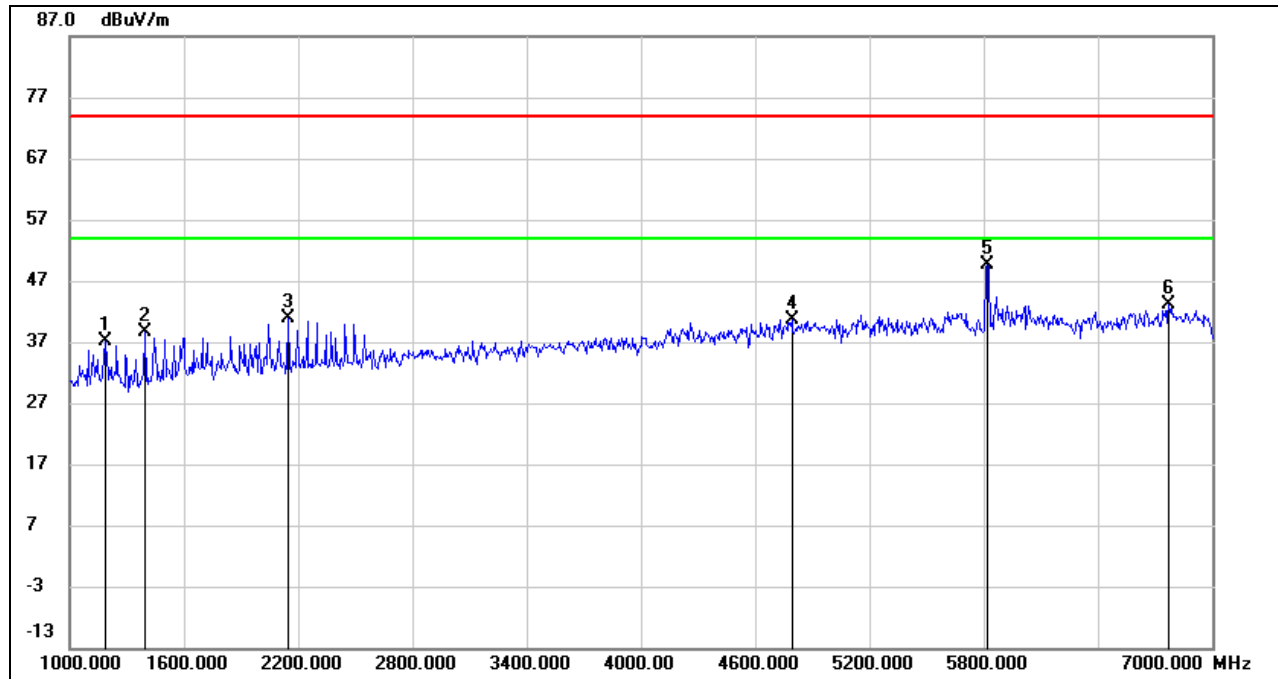
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1399.000	50.10	-12.70	37.40	74.00	-36.60	peak
2	2149.000	50.53	-9.34	41.19	74.00	-32.81	peak
3	2375.800	53.95	-8.47	45.48	74.00	-28.52	peak
4	4226.800	42.56	-1.69	40.87	74.00	-33.13	peak
5	5148.100	41.52	1.80	43.32	74.00	-30.68	peak
6	5785.000	47.44	2.50	49.94	74.00	-24.06	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





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

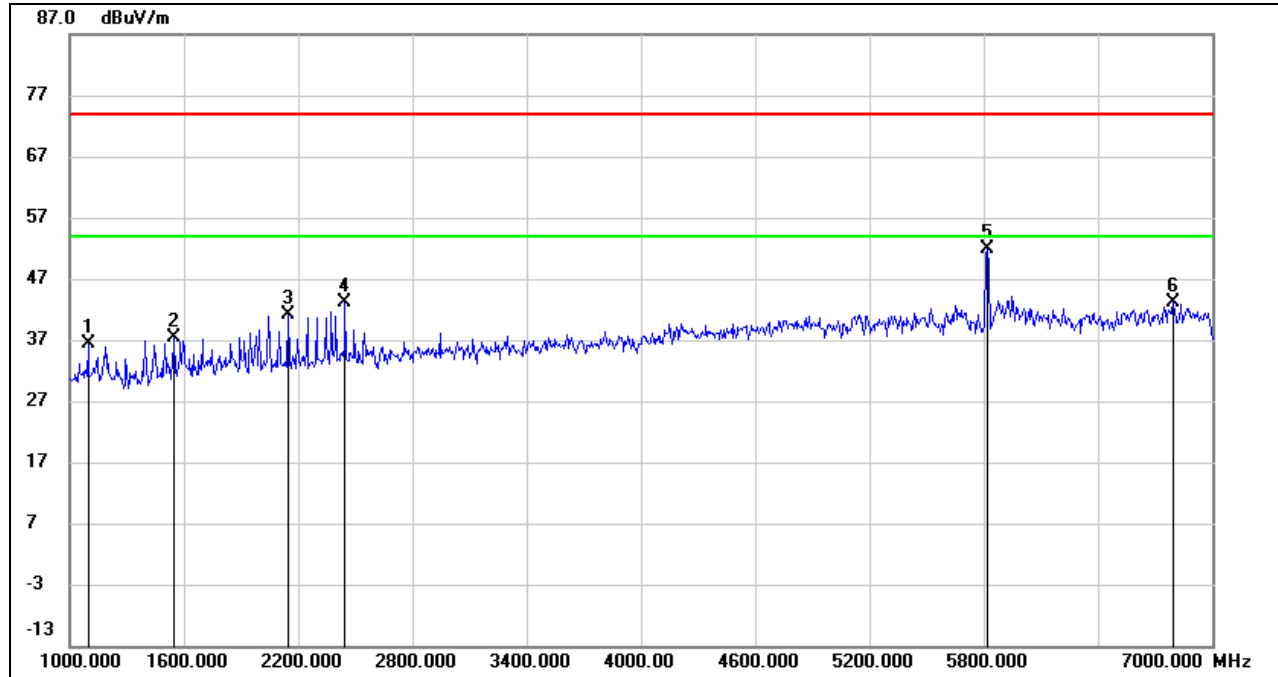


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1187.800	50.19	-13.05	37.14	74.00	-36.86	peak
2	1399.600	51.25	-12.70	38.55	74.00	-35.45	peak
3	2149.000	50.22	-9.34	40.88	74.00	-33.12	peak
4	4792.900	40.18	0.54	40.72	74.00	-33.28	peak
5	5818.600	46.95	2.58	49.53	74.00	-24.47	peak
6	6774.100	37.51	5.56	43.07	74.00	-30.93	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	1099.600	49.80	-13.49	36.31	74.00	-37.69	peak
2	1549.300	49.25	-11.90	37.35	74.00	-36.65	peak
3	2149.300	50.49	-9.34	41.15	74.00	-32.85	peak
4	2448.400	51.43	-8.31	43.12	74.00	-30.88	peak
5	5818.000	49.42	2.57	51.99	74.00	-22.01	peak
6	6796.900	37.68	5.57	43.25	74.00	-30.75	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.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

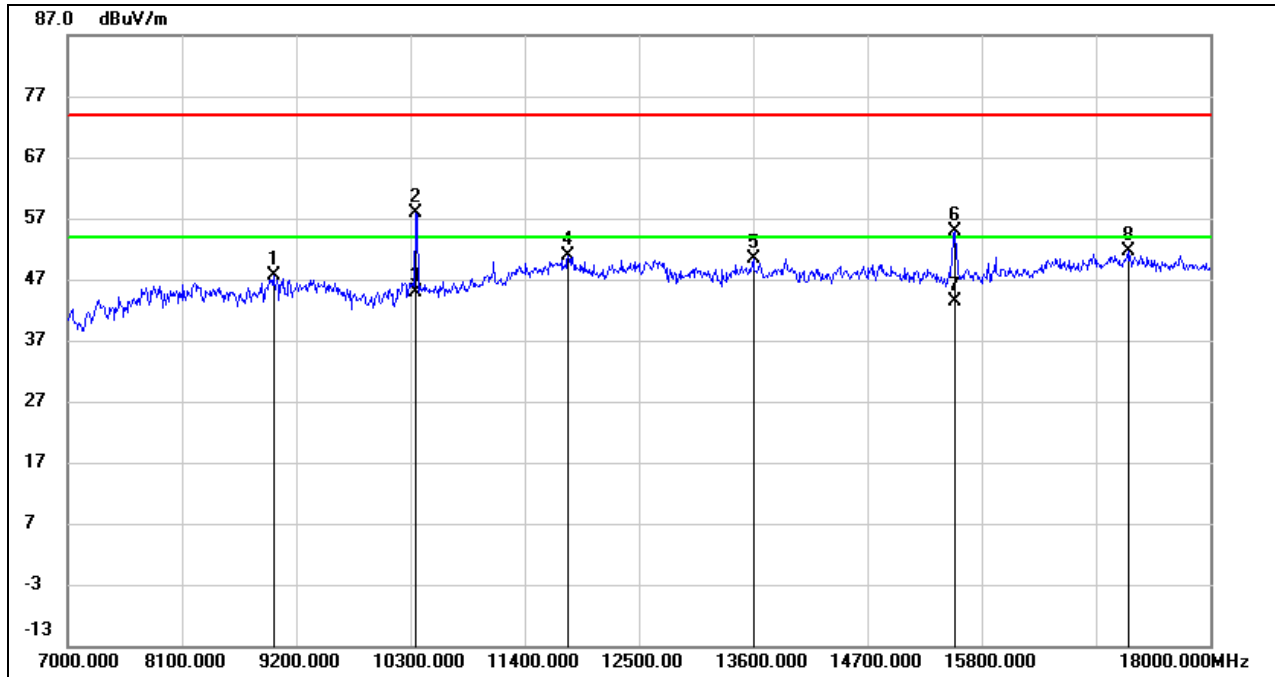
### 8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

#### 8.3.1. 802.11a SISO MODE

#### UNII-1 BAND

#### ANTENNA 1 TEST RESULTS (WORST CASE)

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

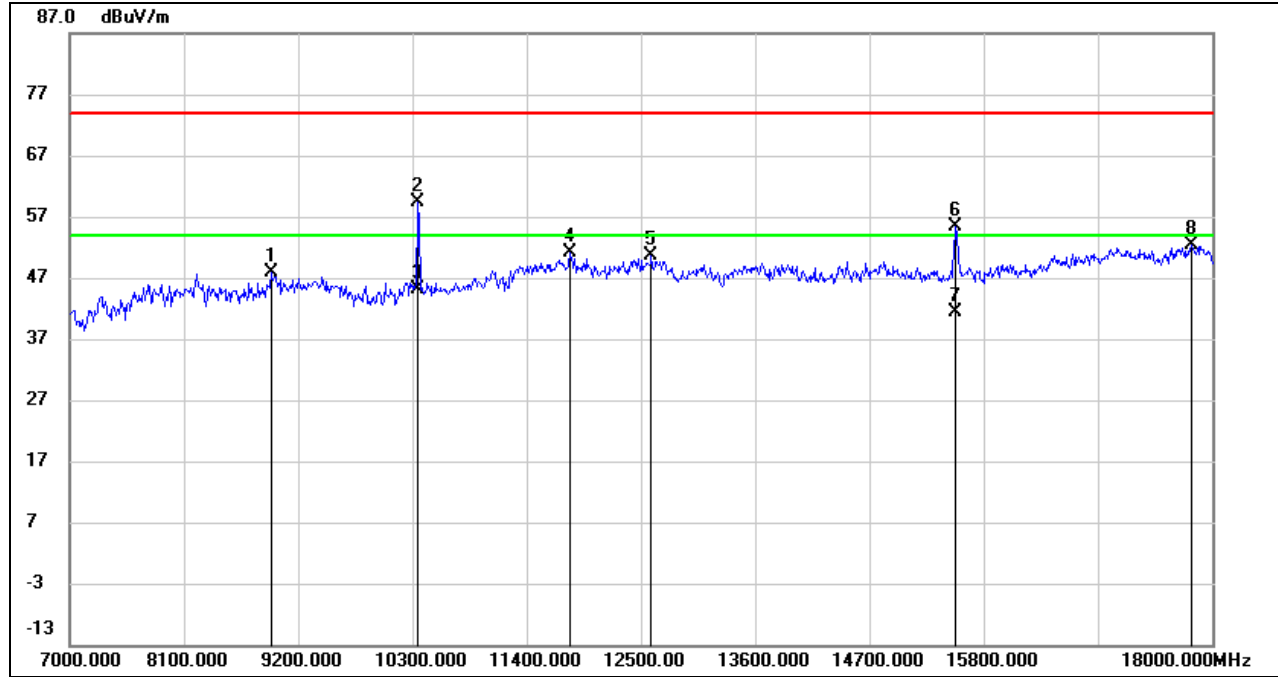


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8980.000	37.18	10.41	47.59	74.00	-26.41	peak
2	10358.300	46.66	11.30	57.96	74.00	-16.04	peak
3	10358.300	33.56	11.30	44.86	54.00	-9.14	AVG
4	11819.100	35.18	15.58	50.76	74.00	-23.24	peak
5	13603.300	34.03	16.44	50.47	74.00	-23.53	peak
6	15543.700	38.27	16.56	54.83	74.00	-19.17	peak
7	15543.700	26.76	16.56	43.32	54.00	-10.68	AVG
8	17208.000	30.69	21.03	51.72	74.00	-22.28	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

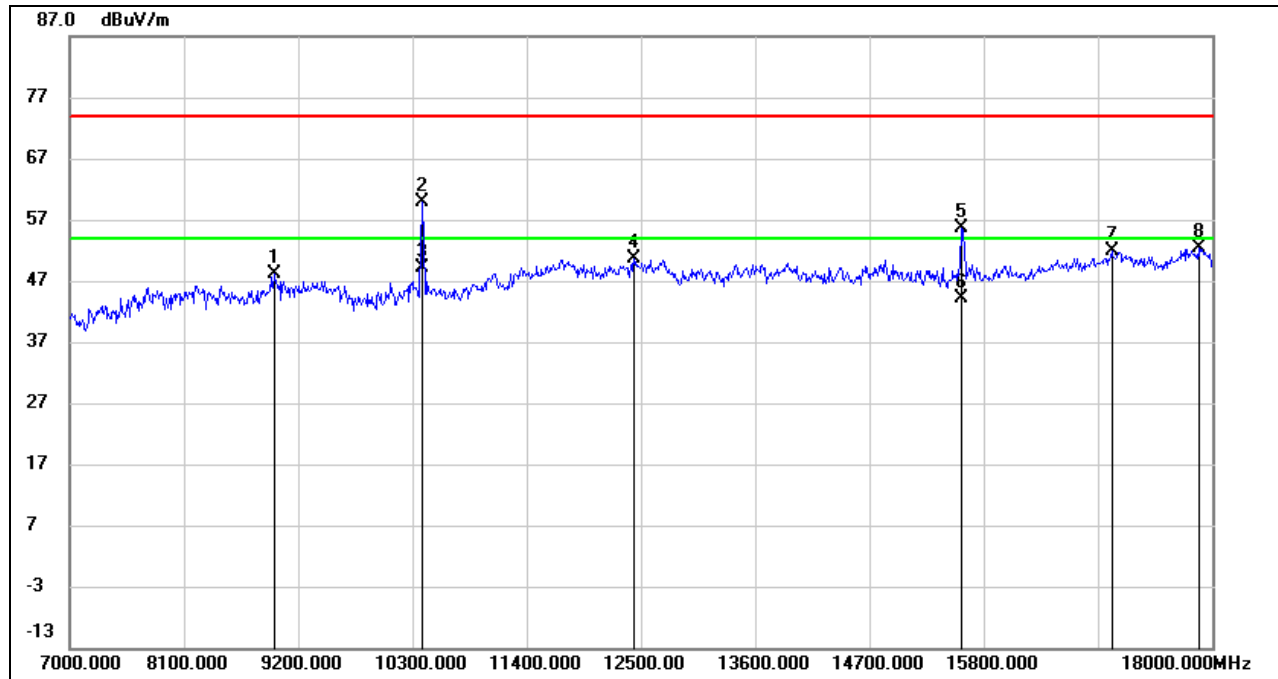


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8936.000	37.80	9.96	47.76	74.00	-26.24	peak
2	10358.300	48.20	11.30	59.50	74.00	-14.50	peak
3	10358.300	33.89	11.30	45.19	54.00	-8.81	AVG
4	11824.600	35.63	15.57	51.20	74.00	-22.80	peak
5	12605.600	35.33	15.30	50.63	74.00	-23.37	peak
6	15533.800	38.94	16.54	55.48	74.00	-18.52	peak
7	15533.800	24.92	16.54	41.46	54.00	-12.54	AVG
8	17811.900	29.78	22.72	52.50	74.00	-21.50	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

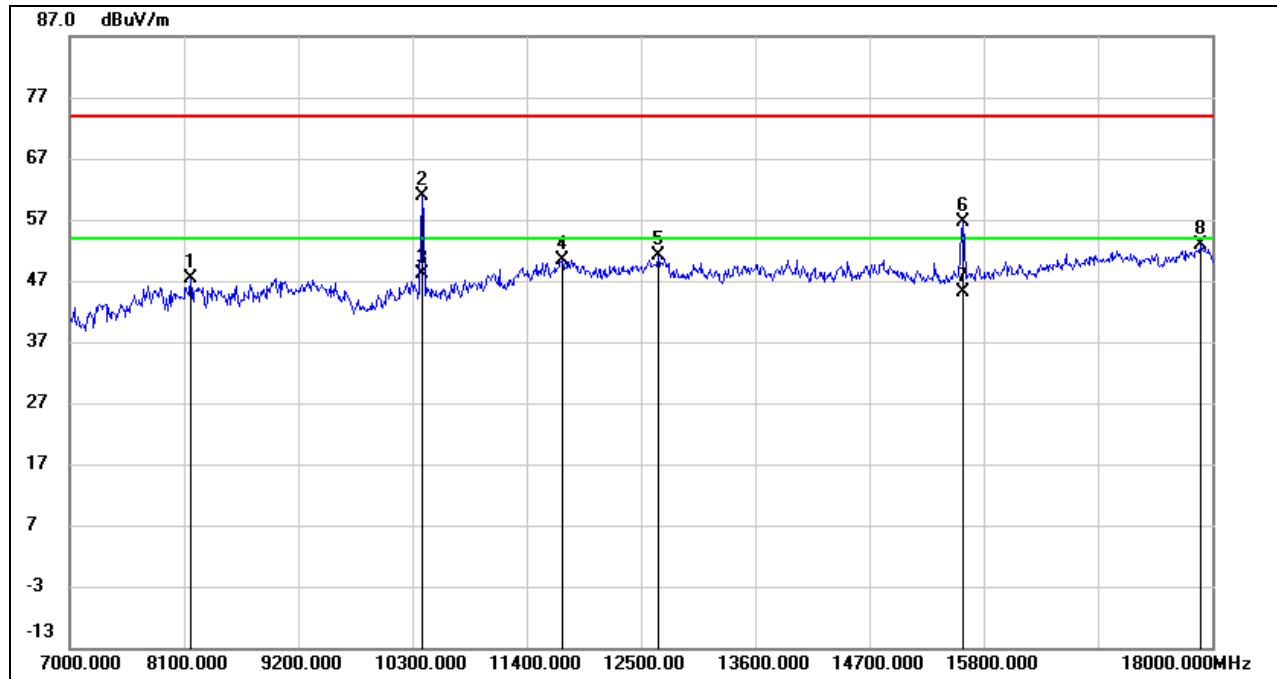


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8971.200	37.85	10.33	48.18	74.00	-25.82	peak
2	10400.100	48.41	11.45	59.86	74.00	-14.14	peak
3	10400.100	37.71	11.45	49.16	54.00	-4.84	AVG
4	12436.200	35.07	15.47	50.54	74.00	-23.46	peak
5	15589.900	38.90	16.68	55.58	74.00	-18.42	peak
6	15589.900	27.47	16.68	44.15	54.00	-9.85	AVG
7	17035.300	31.45	20.37	51.82	74.00	-22.18	peak
8	17872.400	29.57	22.70	52.27	74.00	-21.73	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

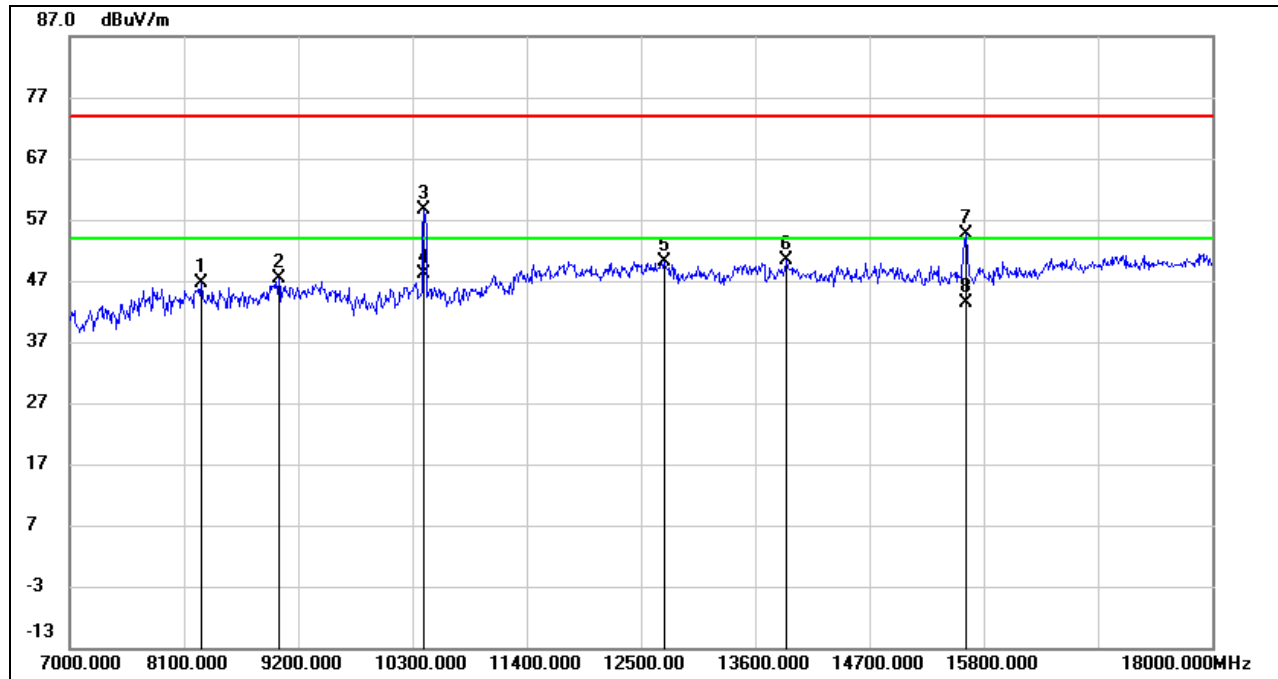


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8166.000	38.22	9.07	47.29	74.00	-26.71	peak
2	10400.100	49.51	11.45	60.96	74.00	-13.04	peak
3	10400.100	36.71	11.45	48.16	54.00	-5.84	AVG
4	11741.000	35.18	15.28	50.46	74.00	-23.54	peak
5	12670.500	35.67	15.42	51.09	74.00	-22.91	peak
6	15610.800	39.93	16.71	56.64	74.00	-17.36	peak
7	15610.800	28.52	16.71	45.23	54.00	-8.77	AVG
8	17898.800	30.10	22.70	52.80	74.00	-21.20	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

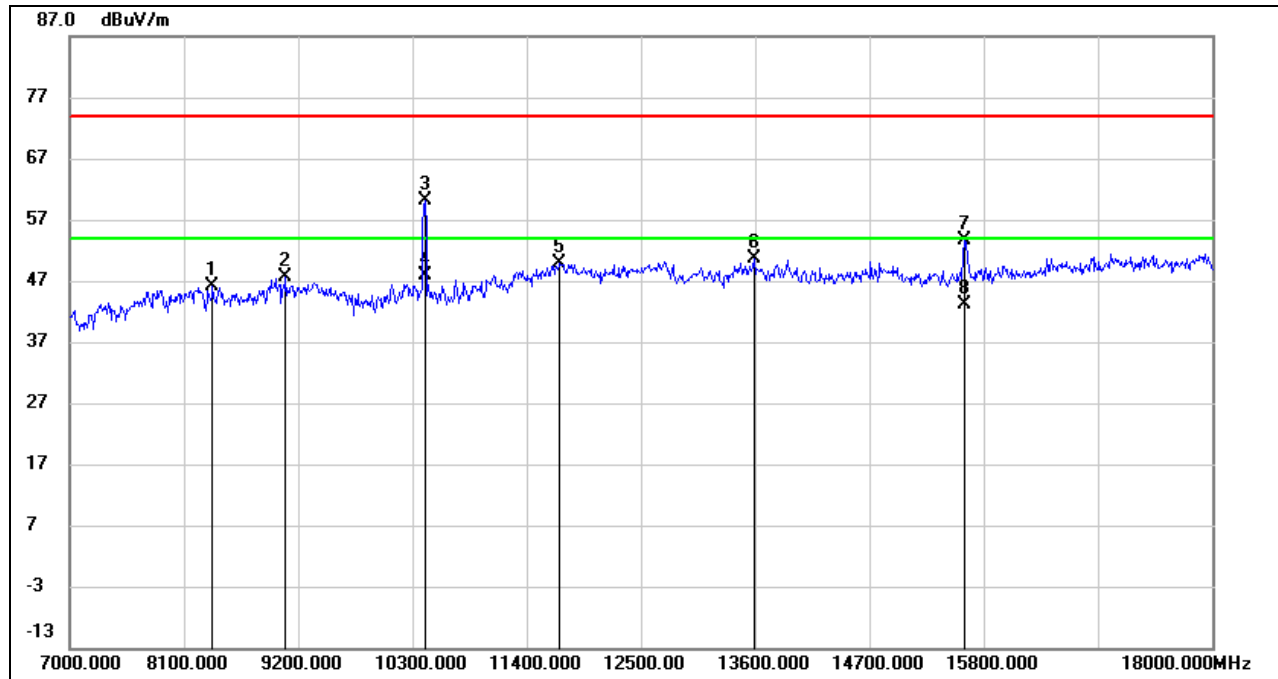


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8272.700	37.48	9.08	46.56	74.00	-27.44	peak
2	9022.900	36.93	10.47	47.40	74.00	-26.60	peak
3	10418.800	47.10	11.55	58.65	74.00	-15.35	peak
4	10418.800	36.69	11.55	48.24	54.00	-5.76	AVG
5	12724.400	34.67	15.52	50.19	74.00	-23.81	peak
6	13905.800	33.53	16.90	50.43	74.00	-23.57	peak
7	15636.100	38.00	16.72	54.72	74.00	-19.28	peak
8	15636.100	26.66	16.72	43.38	54.00	-10.62	AVG

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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	8381.600	37.40	8.66	46.06	74.00	-27.94	peak
2	9080.100	37.44	10.09	47.53	74.00	-26.47	peak
3	10424.300	48.62	11.58	60.20	74.00	-13.80	peak
4	10424.300	36.18	11.58	47.76	54.00	-6.24	AVG
5	11728.900	34.62	15.23	49.85	74.00	-24.15	peak
6	13598.900	34.15	16.43	50.58	74.00	-23.42	peak
7	15617.400	36.94	16.71	53.65	74.00	-20.35	peak
8	15617.400	26.31	16.71	43.02	54.00	-10.98	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

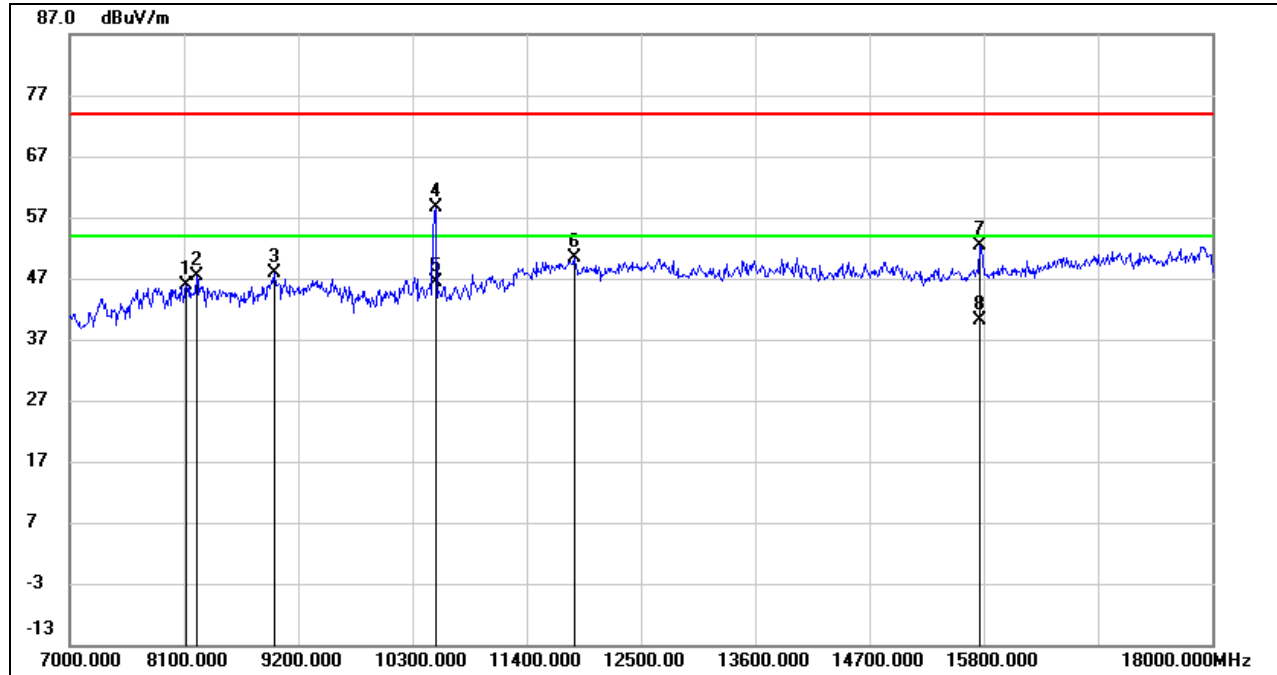




**UNII-2A BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

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

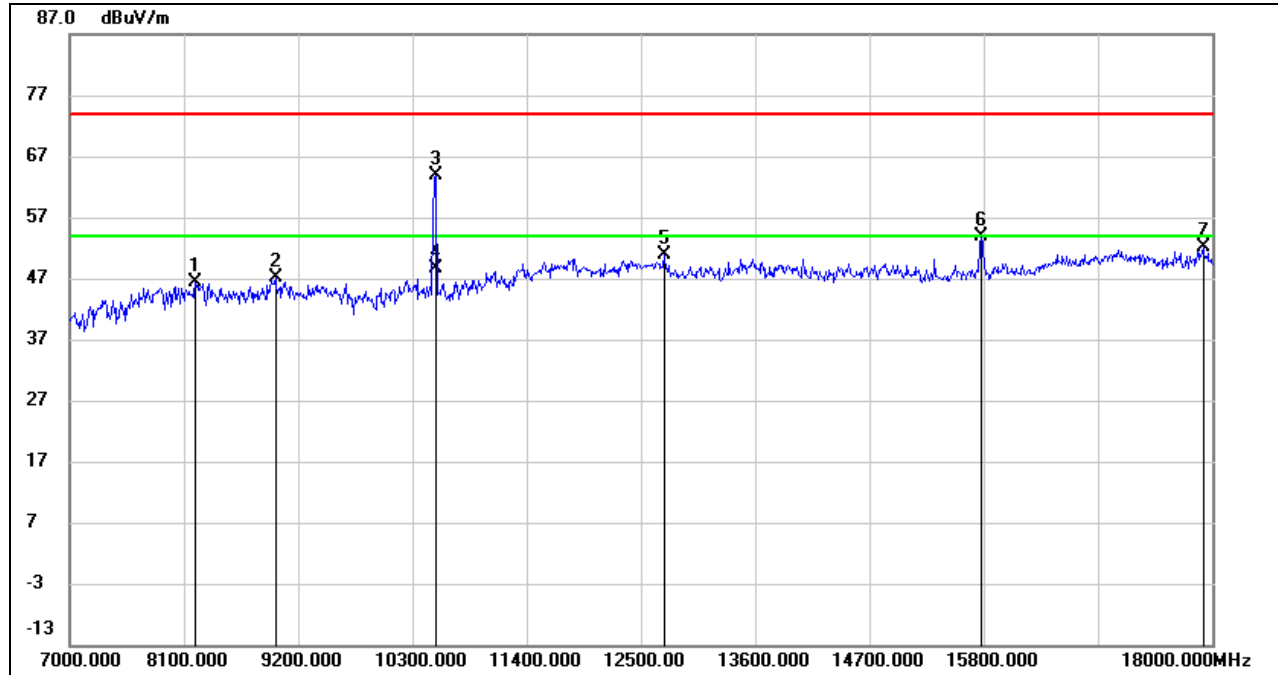


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8129.700	37.12	8.76	45.88	74.00	-28.12	peak
2	8227.600	38.11	9.25	47.36	74.00	-26.64	peak
3	8976.700	37.45	10.38	47.83	74.00	-26.17	peak
4	10522.200	46.69	12.04	58.73	74.00	-15.27	peak
5	10522.200	34.22	12.04	46.26	54.00	-7.74	AVG
6	11869.700	34.99	15.51	50.50	74.00	-23.50	peak
7	15761.500	35.47	16.81	52.28	74.00	-21.72	peak
8	15761.500	23.42	16.81	40.23	54.00	-13.77	AVG

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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

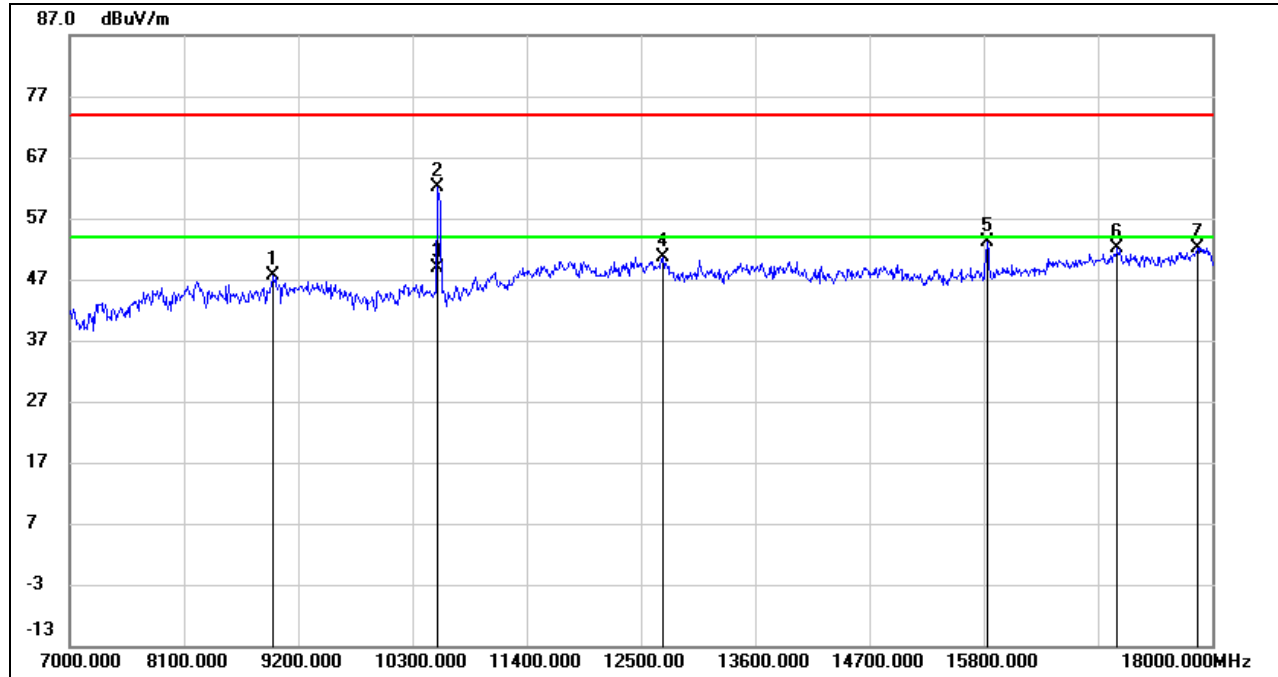


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8214.400	37.17	9.31	46.48	74.00	-27.52	peak
2	8987.700	36.54	10.50	47.04	74.00	-26.96	peak
3	10520.000	51.76	12.04	63.80	74.00	-10.20	peak
4	10520.000	36.48	12.04	48.52	54.00	-5.48	AVG
5	12728.800	35.28	15.52	50.80	74.00	-23.20	peak
6	15786.800	36.97	16.82	53.79	74.00	-20.21	peak
7	17920.800	29.45	22.69	52.14	74.00	-21.86	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

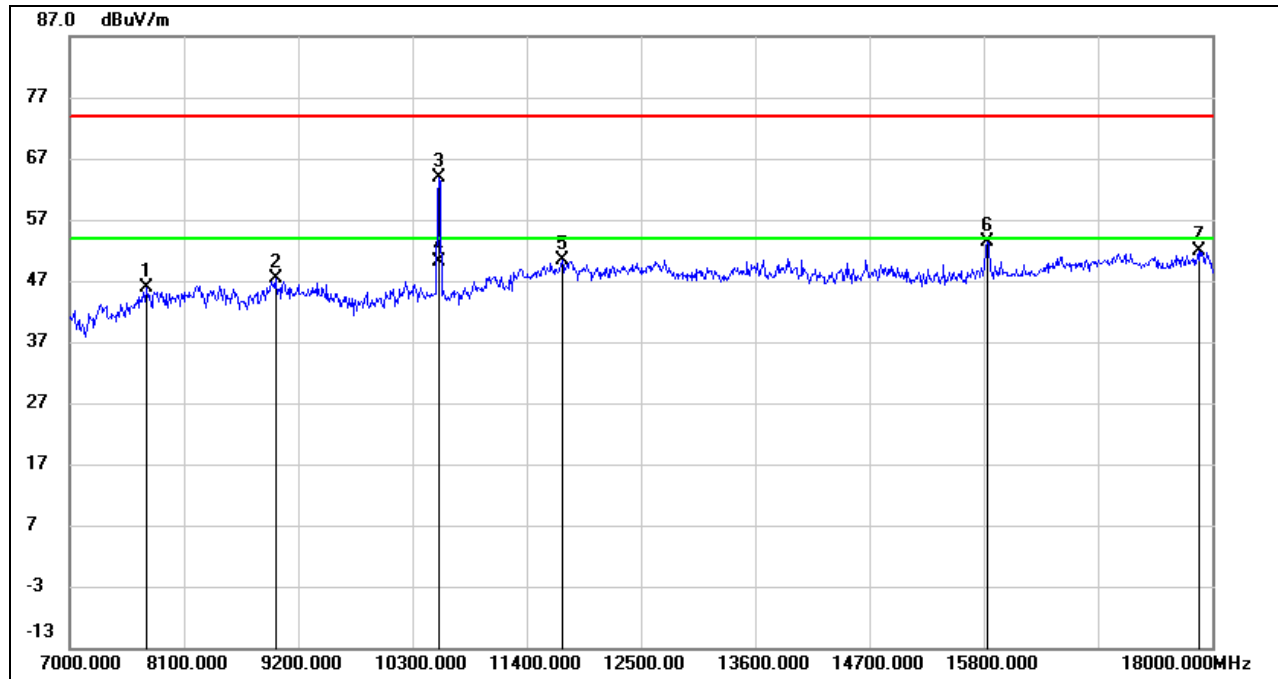


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8966.800	37.24	10.28	47.52	74.00	-26.48	peak
2	10551.900	49.87	12.16	62.03	74.00	-11.97	peak
3	10551.900	36.77	12.16	48.93	54.00	-5.07	AVG
4	12718.900	35.24	15.51	50.75	74.00	-23.25	peak
5	15839.600	36.12	16.91	53.03	74.00	-20.97	peak
6	17093.600	31.64	20.60	52.24	74.00	-21.76	peak
7	17864.700	29.52	22.71	52.23	74.00	-21.77	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

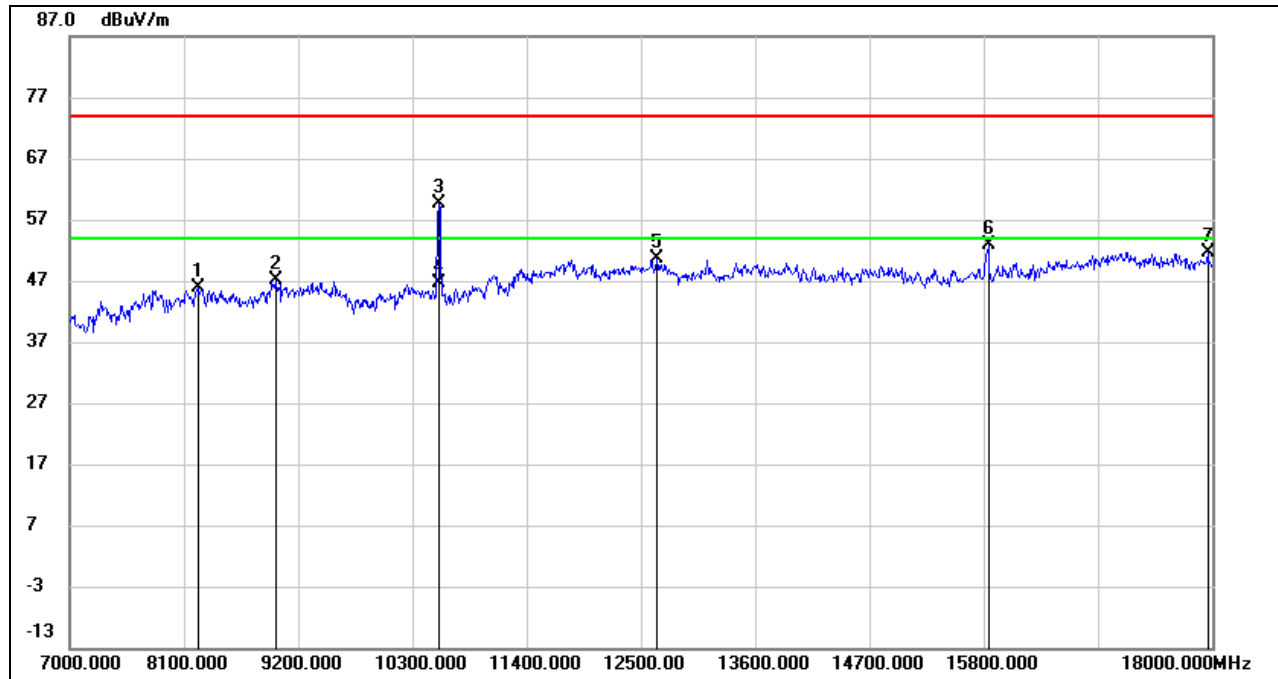


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7737.000	37.82	8.00	45.82	74.00	-28.18	peak
2	8981.100	36.85	10.43	47.28	74.00	-26.72	peak
3	10558.500	51.76	12.20	63.96	74.00	-10.04	peak
4	10558.500	37.81	12.20	50.01	54.00	-3.99	AVG
5	11741.000	35.20	15.28	50.48	74.00	-23.52	peak
6	15841.800	36.36	16.92	53.28	74.00	-20.72	peak
7	17875.700	29.16	22.70	51.86	74.00	-22.14	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



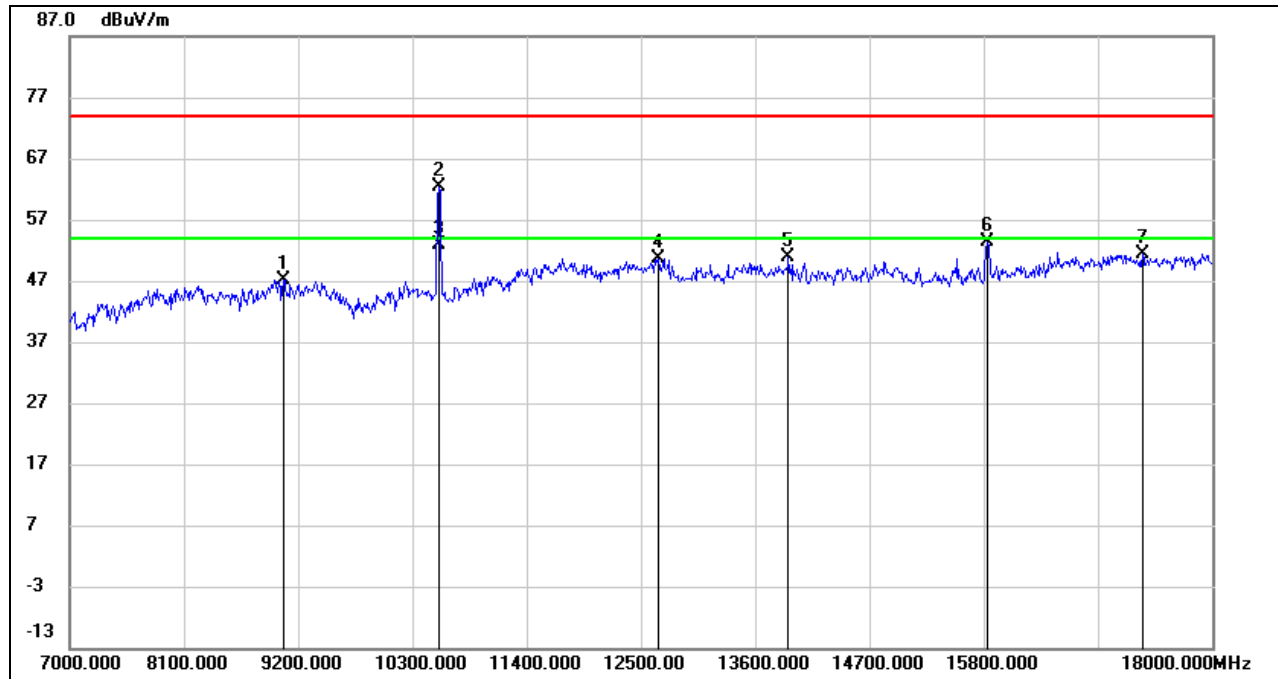
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8238.600	36.59	9.21	45.80	74.00	-28.20	peak
2	8985.500	36.59	10.48	47.07	74.00	-26.93	peak
3	10558.500	47.37	12.20	59.57	74.00	-14.43	peak
4	10558.500	34.37	12.20	46.57	54.00	-7.43	AVG
5	12662.800	35.18	15.40	50.58	74.00	-23.42	peak
6	15845.100	35.85	16.92	52.77	74.00	-21.23	peak
7	17963.700	29.05	22.68	51.73	74.00	-22.27	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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



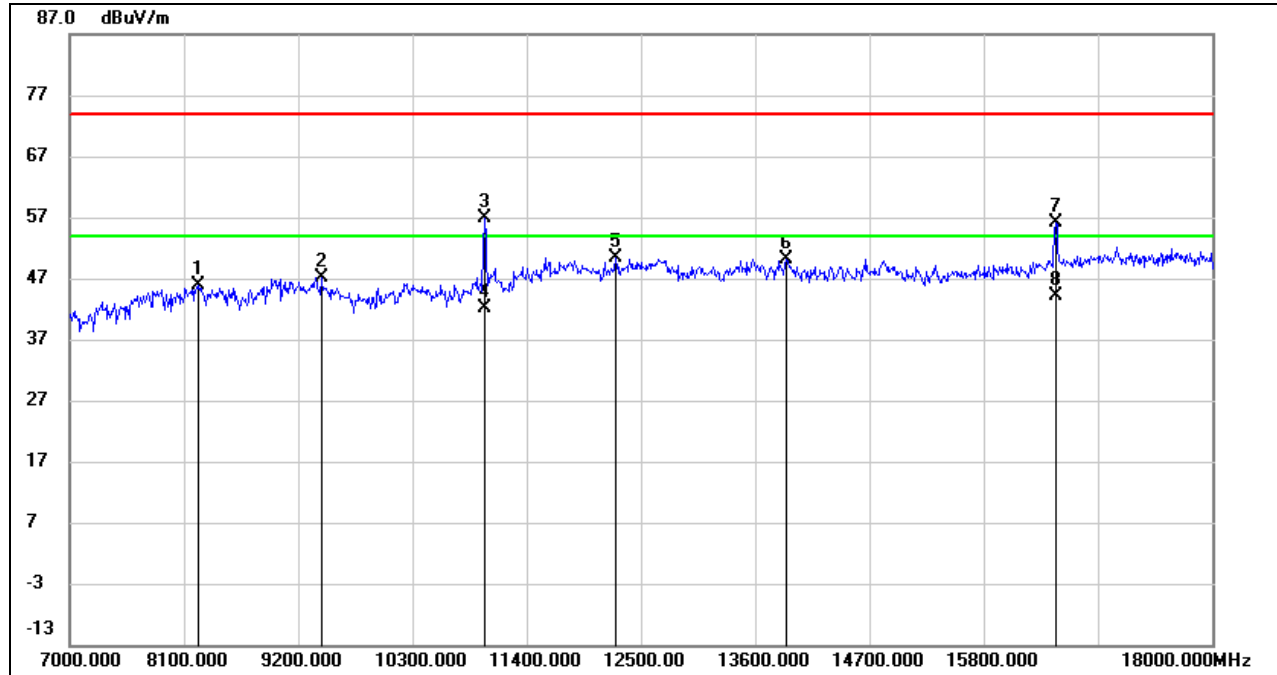
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9066.900	37.05	10.17	47.22	74.00	-26.78	peak
2	10559.600	50.08	12.20	62.28	74.00	-11.72	peak
3	10559.600	40.70	12.20	52.90	54.00	-1.10	AVG
4	12667.200	35.18	15.41	50.59	74.00	-23.41	peak
5	13921.200	34.01	16.89	50.90	74.00	-23.10	peak
6	15836.300	36.40	16.90	53.30	74.00	-20.70	peak
7	17331.200	30.52	20.84	51.36	74.00	-22.64	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**UNII-2C BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

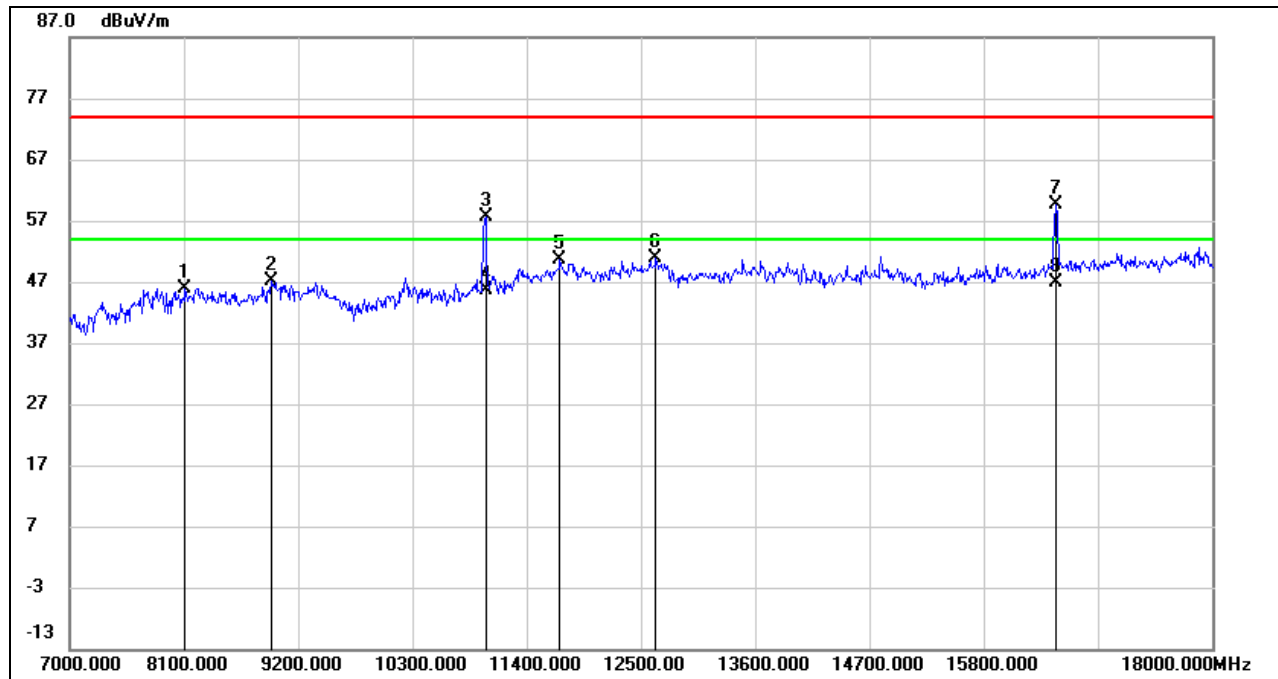
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8244.100	36.62	9.19	45.81	74.00	-28.19	peak
2	9426.600	36.85	10.35	47.20	74.00	-26.80	peak
3	11000.700	43.72	13.26	56.98	74.00	-17.02	peak
4	11000.700	28.76	13.26	42.02	54.00	-11.98	AVG
5	12258.000	35.13	15.22	50.35	74.00	-23.65	peak
6	13904.700	33.17	16.91	50.08	74.00	-23.92	peak
7	16497.400	37.04	19.11	56.15	74.00	-17.85	peak
8	16497.400	25.10	19.11	44.21	54.00	-9.79	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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



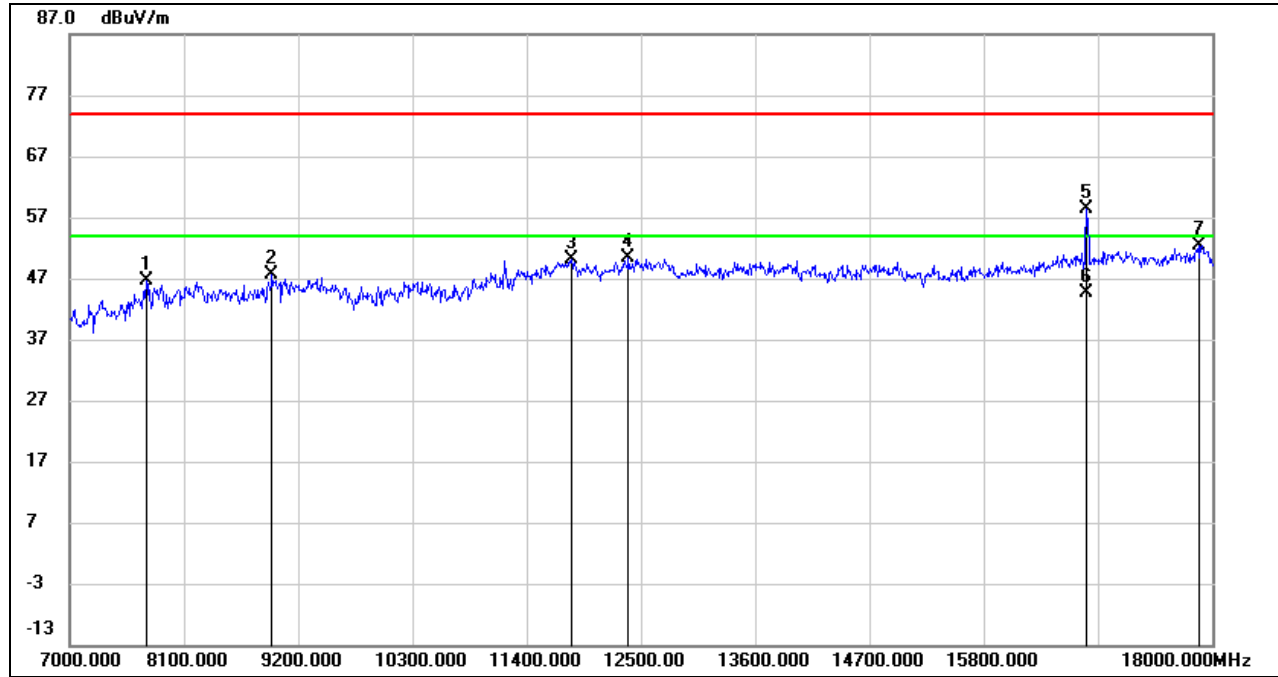
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8116.500	37.22	8.65	45.87	74.00	-28.13	peak
2	8939.300	37.09	9.99	47.08	74.00	-26.92	peak
3	11004.000	44.45	13.26	57.71	74.00	-16.29	peak
4	11004.000	32.42	13.26	45.68	54.00	-8.32	AVG
5	11724.500	35.54	15.19	50.73	74.00	-23.27	peak
6	12651.800	35.55	15.38	50.93	74.00	-23.07	peak
7	16497.400	40.52	19.11	59.63	74.00	-14.37	peak
8	16497.400	27.67	19.11	46.78	54.00	-7.22	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





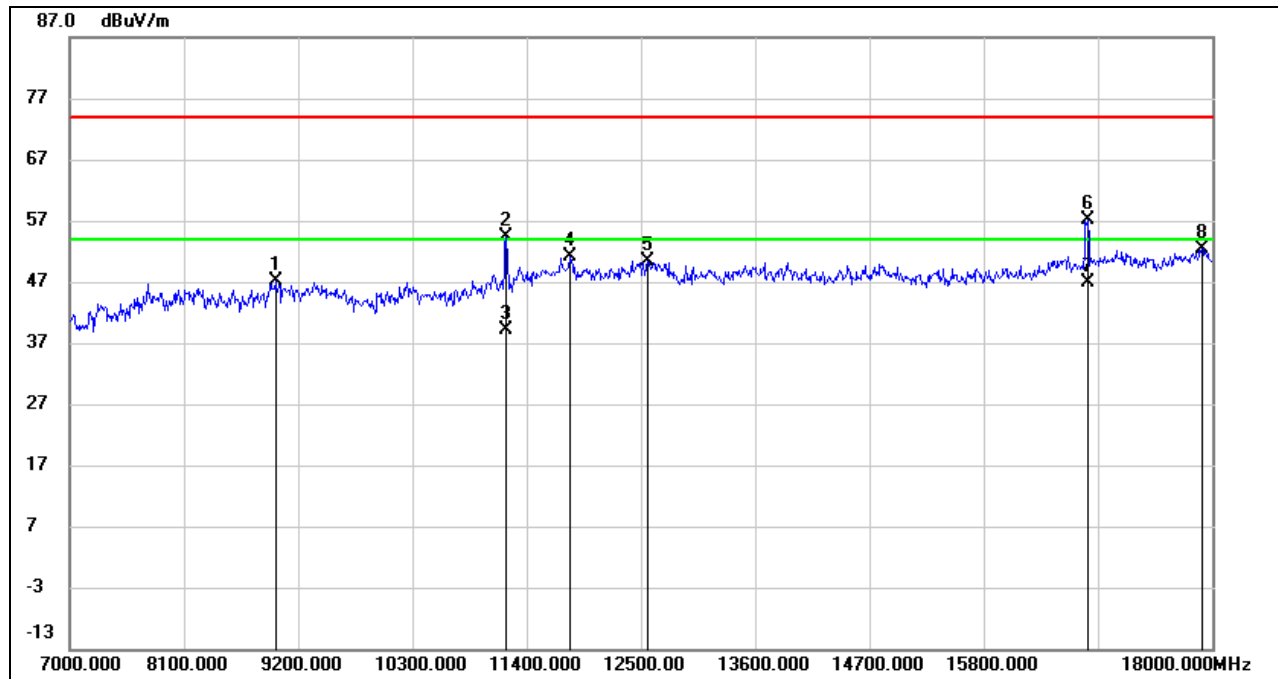
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7742.500	38.65	8.02	46.67	74.00	-27.33	peak
2	8948.100	37.44	10.08	47.52	74.00	-26.48	peak
3	11829.000	34.58	15.57	50.15	74.00	-23.85	peak
4	12380.100	34.87	15.47	50.34	74.00	-23.66	peak
5	16799.900	38.74	19.74	58.48	74.00	-15.52	peak
6	16799.900	24.94	19.74	44.68	54.00	-9.32	AVG
7	17871.300	29.70	22.70	52.40	74.00	-21.60	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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

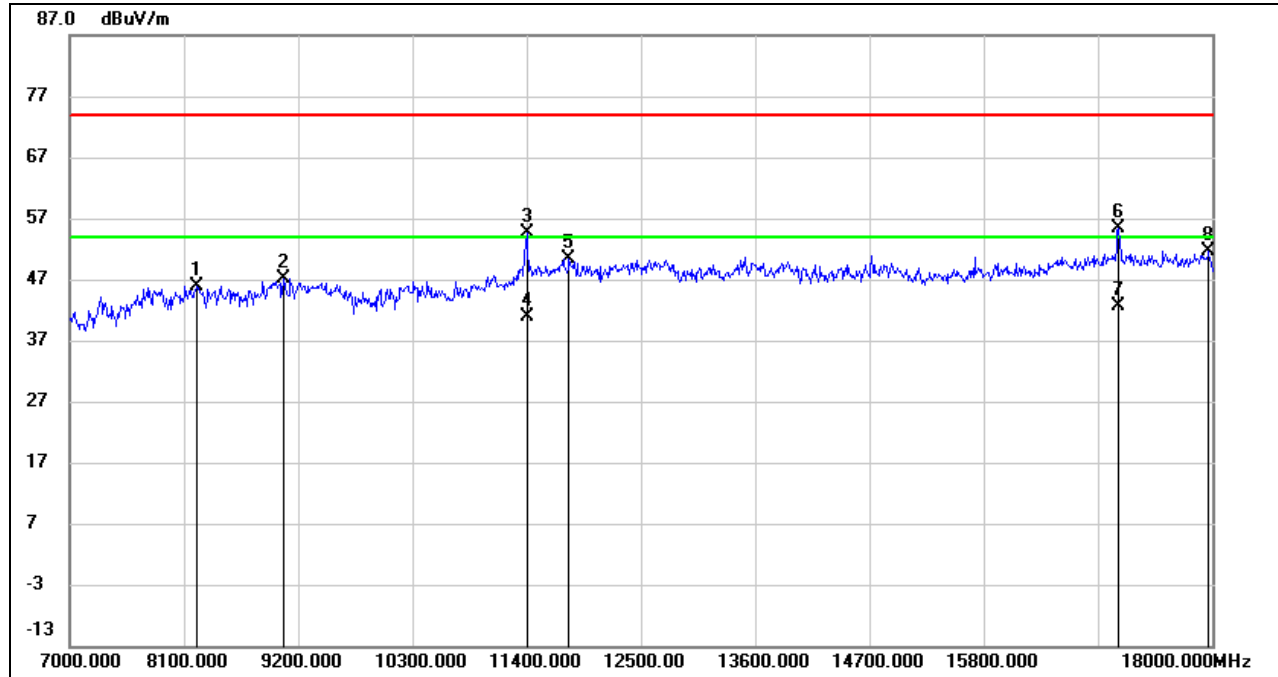
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8985.500	36.69	10.48	47.17	74.00	-26.83	peak
2	11202.000	40.68	13.64	54.32	74.00	-19.68	peak
3	11202.000	25.50	13.64	39.14	54.00	-14.86	AVG
4	11820.200	35.43	15.59	51.02	74.00	-22.98	peak
5	12570.400	35.03	15.31	50.34	74.00	-23.66	peak
6	16803.200	37.32	19.75	57.07	74.00	-16.93	peak
7	16803.200	27.04	19.75	46.79	54.00	-7.21	AVG
8	17903.200	29.68	22.69	52.37	74.00	-21.63	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

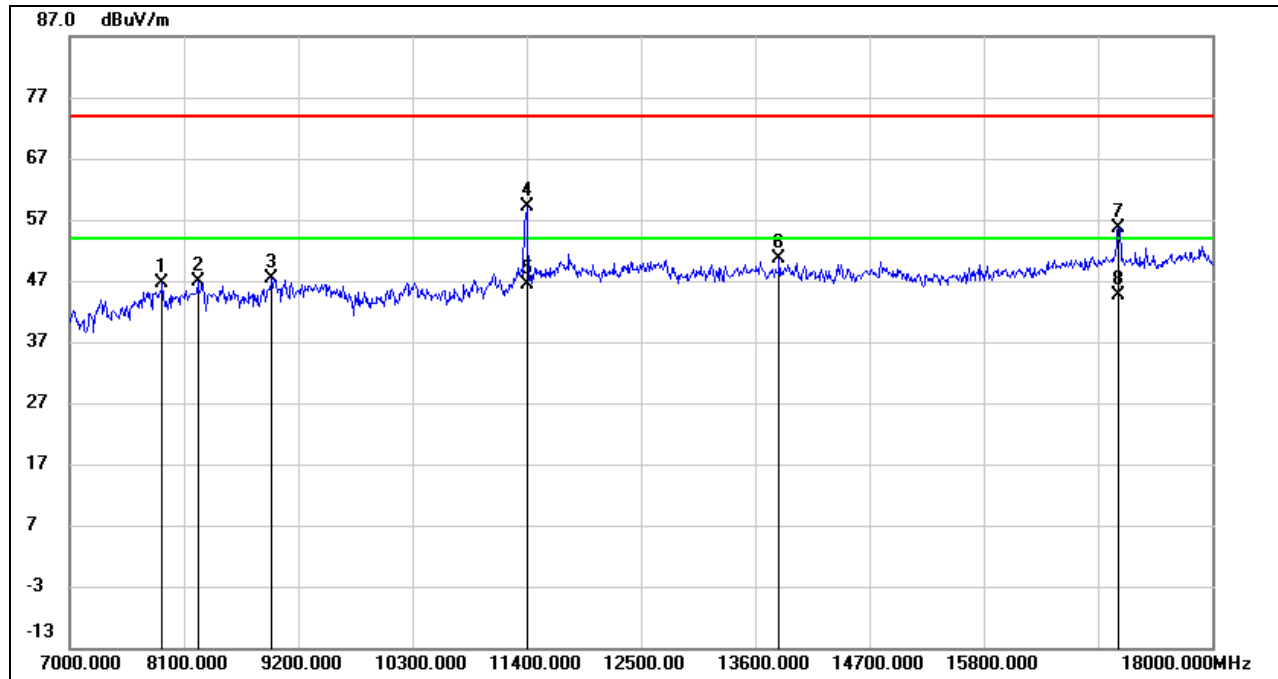
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	36.57	9.28	45.85	74.00	-28.15	peak
2	9058.100	36.97	10.25	47.22	74.00	-26.78	peak
3	11401.100	40.48	14.22	54.70	74.00	-19.30	peak
4	11401.100	26.72	14.22	40.94	54.00	-13.06	AVG
5	11810.300	34.90	15.60	50.50	74.00	-23.50	peak
6	17101.300	34.84	20.64	55.48	74.00	-18.52	peak
7	17101.300	22.04	20.64	42.68	54.00	-11.32	AVG
8	17967.000	28.95	22.67	51.62	74.00	-22.38	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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**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	7893.200	38.71	7.97	46.68	74.00	-27.32	peak
2	8240.800	37.56	9.20	46.76	74.00	-27.24	peak
3	8954.700	37.28	10.15	47.43	74.00	-26.57	peak
4	11400.000	44.80	14.22	59.02	74.00	-14.98	peak
5	11400.000	32.25	14.22	46.47	54.00	-7.53	AVG
6	13838.700	33.74	16.94	50.68	74.00	-23.32	peak
7	17105.700	35.06	20.65	55.71	74.00	-18.29	peak
8	17105.700	24.02	20.65	44.67	54.00	-9.33	AVG

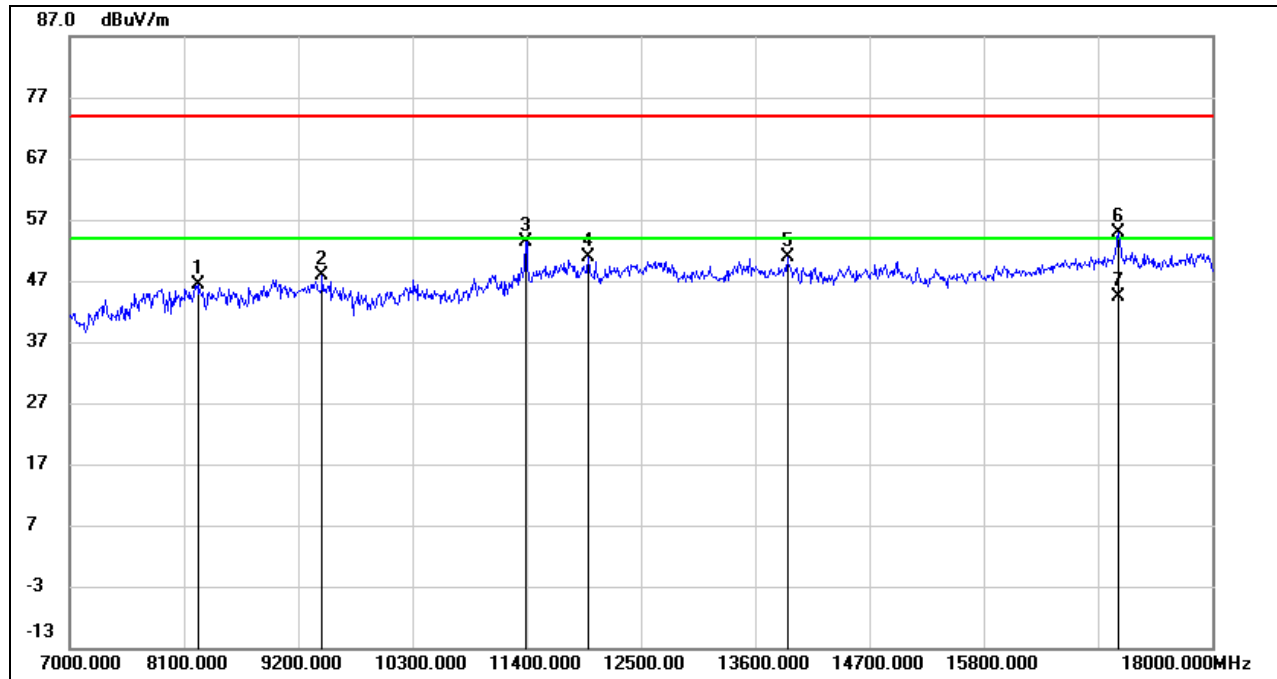
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 5. For the transmitting duration, please refer to clause 7.1.  
 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**STRADDLE CHANNEL 144**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

**HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)**

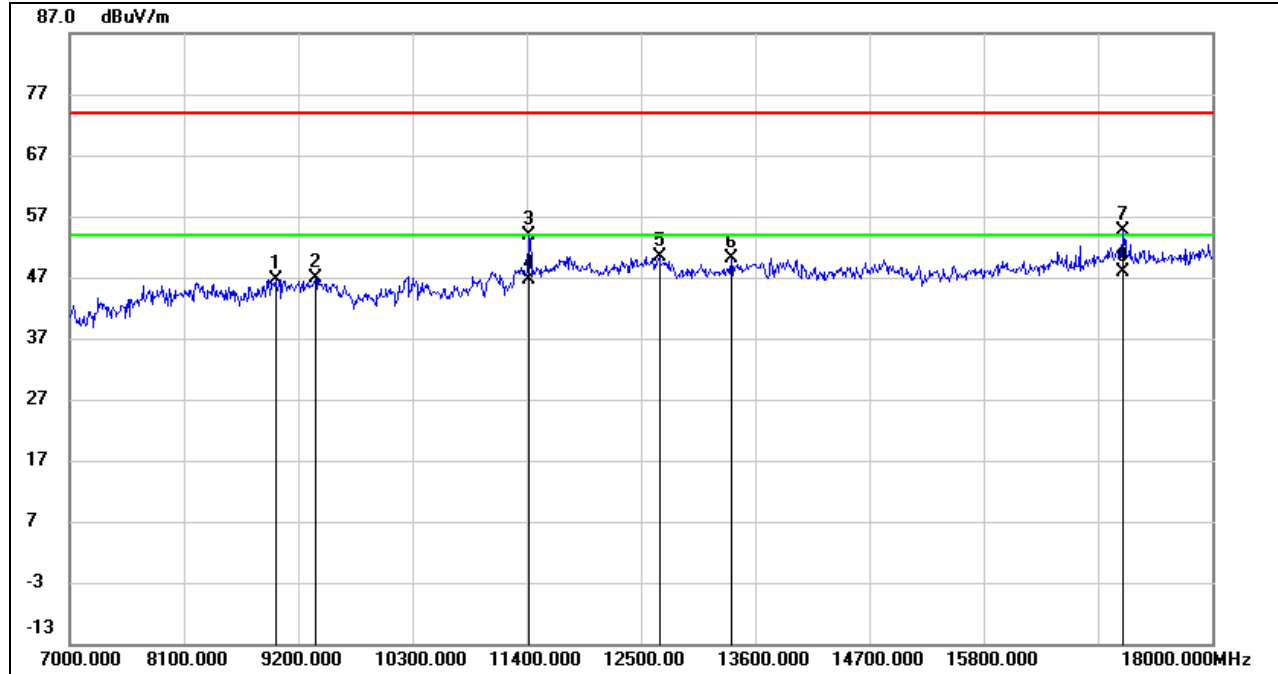


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8235.300	37.20	9.22	46.42	74.00	-27.58	peak
2	9437.600	37.49	10.37	47.86	74.00	-26.14	peak
3	11398.900	39.23	14.22	53.45	74.00	-20.55	peak
4	11994.000	35.45	15.33	50.78	74.00	-23.22	peak
5	13916.800	34.04	16.89	50.93	74.00	-23.07	peak
6	17105.700	34.35	20.65	55.00	74.00	-19.00	peak
7	17105.700	23.76	20.65	44.41	54.00	-9.59	AVG

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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)**



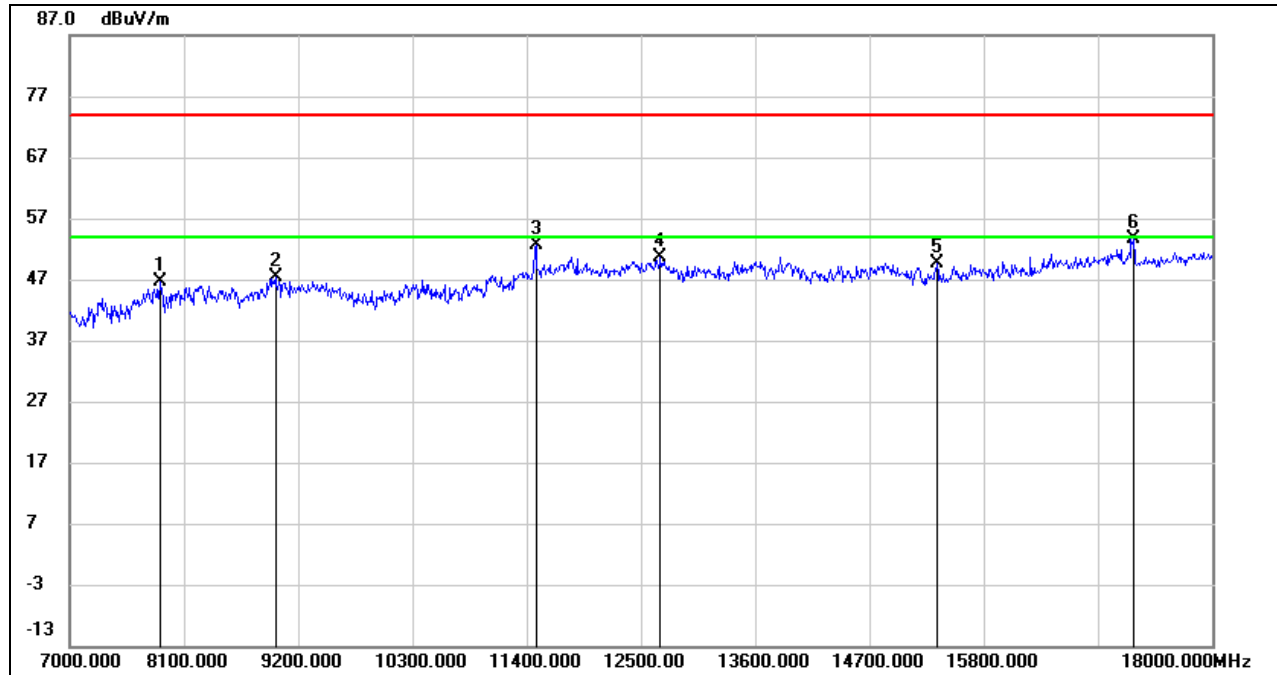
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8986.600	36.24	10.49	46.73	74.00	-27.27	peak
2	9368.300	36.68	10.14	46.82	74.00	-27.18	peak
3	11428.600	39.62	14.25	53.87	74.00	-20.13	peak
4	11428.600	32.32	14.25	46.57	54.00	-7.43	AVG
5	12676.000	35.00	15.42	50.42	74.00	-23.58	peak
6	13369.000	33.96	16.21	50.17	74.00	-23.83	peak
7	17145.300	33.91	20.82	54.73	74.00	-19.27	peak
8	17145.300	27.02	20.82	47.84	54.00	-6.16	AVG

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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**UNII-3 BAND**

**ANTENNA 1 TEST RESULTS (WORST CASE)**

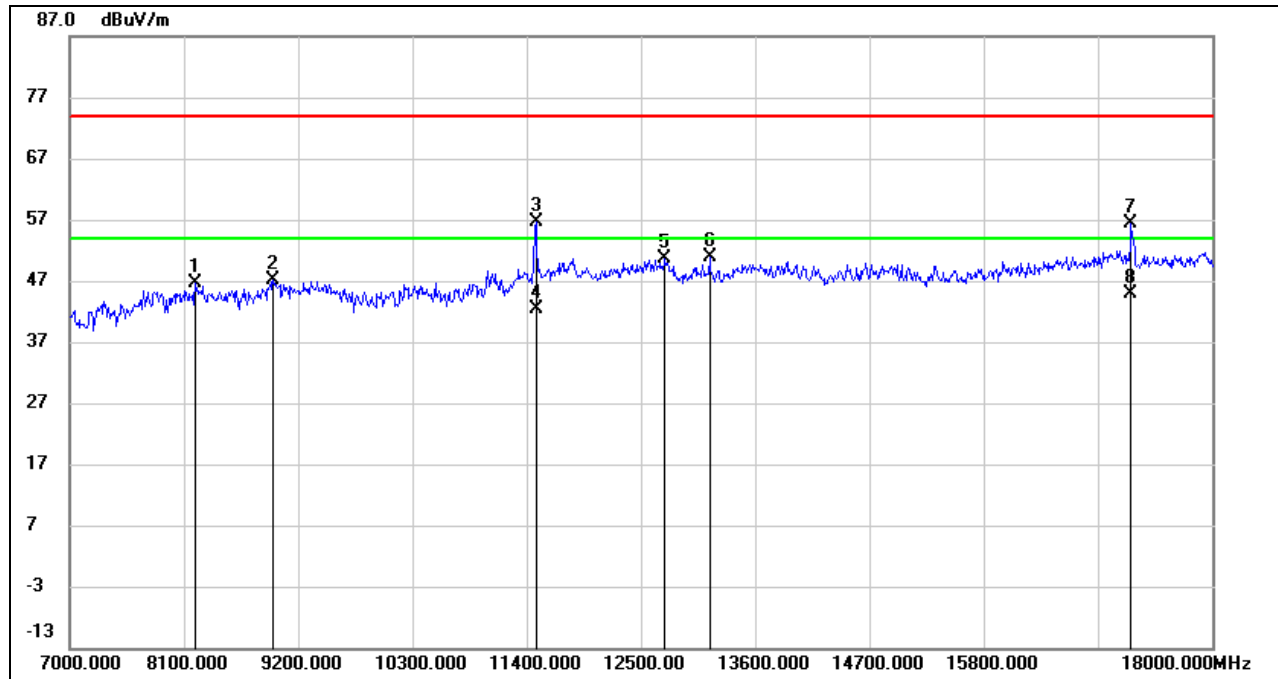
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7877.800	38.70	8.02	46.72	74.00	-27.28	peak
2	8981.100	36.90	10.43	47.33	74.00	-26.67	peak
3	11490.200	38.29	14.34	52.63	74.00	-21.37	peak
4	12692.500	35.23	15.45	50.68	74.00	-23.32	peak
5	15350.100	33.31	16.36	49.67	74.00	-24.33	peak
6	17241.000	32.63	20.97	53.60	74.00	-20.40	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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

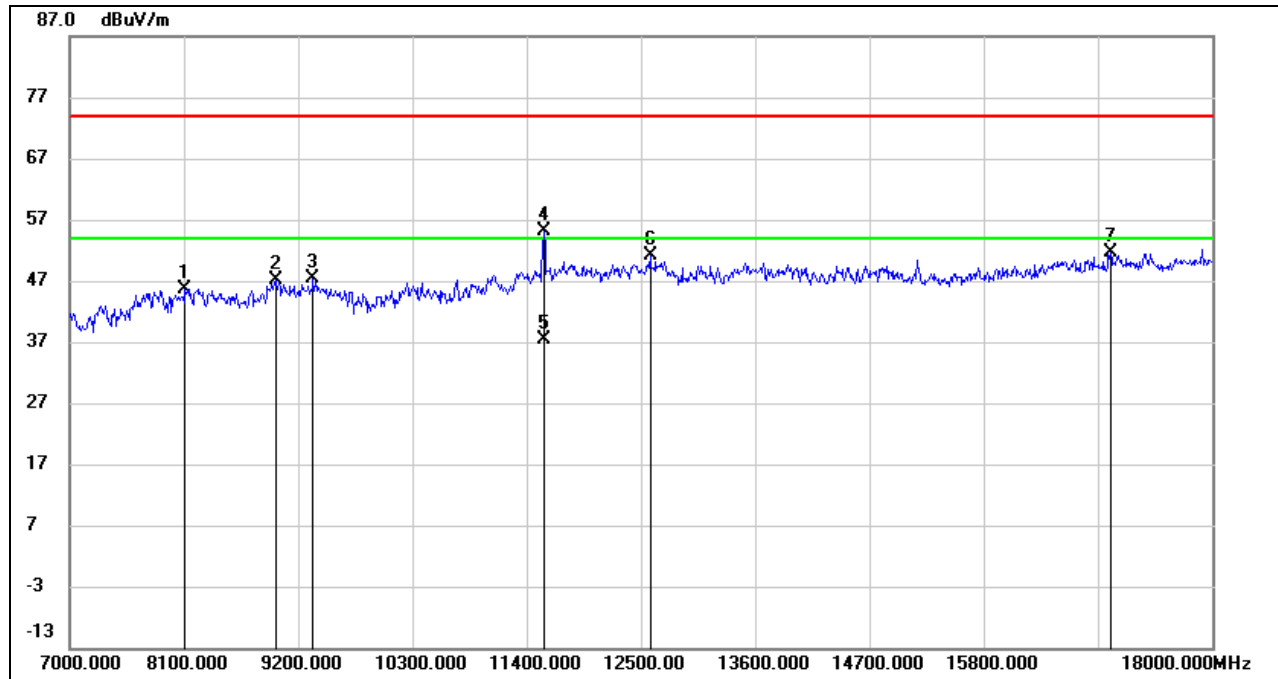


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8216.600	37.41	9.30	46.71	74.00	-27.29	peak
2	8963.500	36.98	10.24	47.22	74.00	-26.78	peak
3	11490.200	42.22	14.34	56.56	74.00	-17.44	peak
4	11490.200	27.92	14.34	42.26	54.00	-11.74	AVG
5	12735.400	35.22	15.53	50.75	74.00	-23.25	peak
6	13165.500	35.20	15.61	50.81	74.00	-23.19	peak
7	17224.500	35.41	21.00	56.41	74.00	-17.59	peak
8	17224.500	23.94	21.00	44.94	54.00	-9.06	AVG

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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

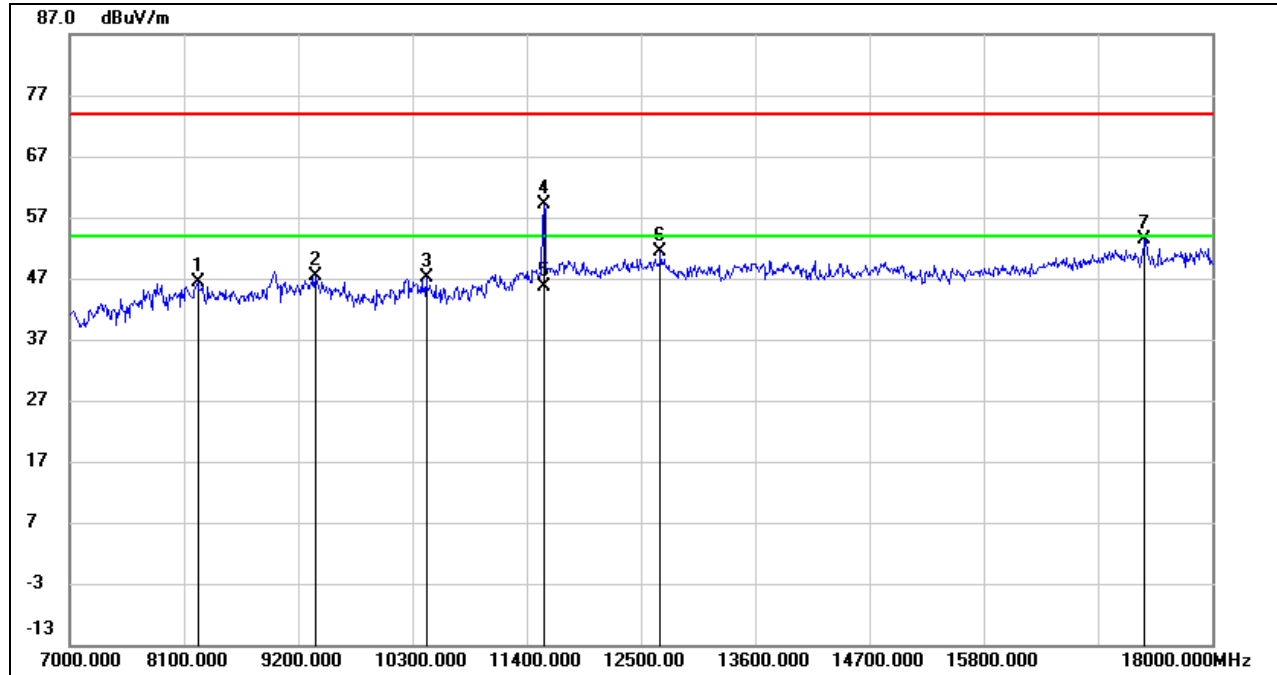


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8114.300	37.10	8.63	45.73	74.00	-28.27	peak
2	8987.700	36.56	10.50	47.06	74.00	-26.94	peak
3	9345.200	37.23	10.04	47.27	74.00	-26.73	peak
4	11570.500	40.59	14.47	55.06	74.00	-18.94	peak
5	11570.500	22.99	14.47	37.46	54.00	-16.54	AVG
6	12596.800	35.80	15.29	51.09	74.00	-22.91	peak
7	17025.400	31.21	20.33	51.54	74.00	-22.46	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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

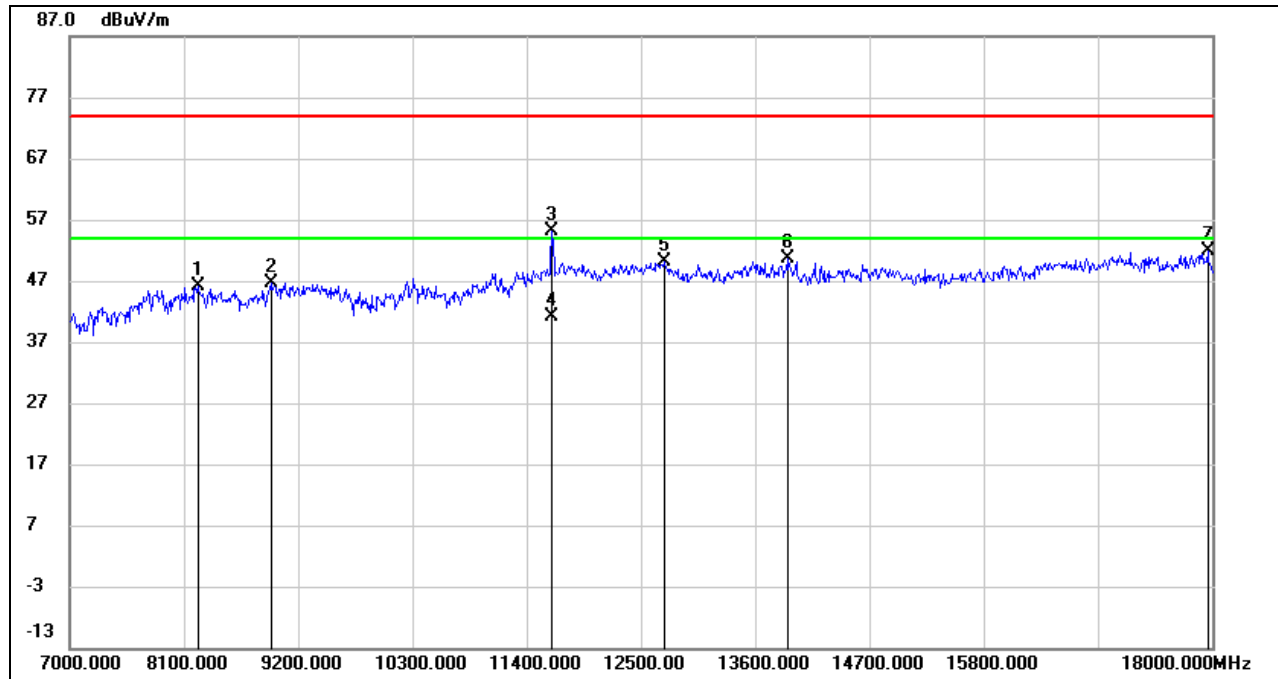


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8234.200	37.07	9.23	46.30	74.00	-27.70	peak
2	9370.500	37.30	10.16	47.46	74.00	-26.54	peak
3	10438.600	35.49	11.64	47.13	74.00	-26.87	peak
4	11569.400	44.59	14.46	59.05	74.00	-14.95	peak
5	11569.400	31.07	14.46	45.53	54.00	-8.47	AVG
6	12694.700	35.86	15.46	51.32	74.00	-22.68	peak
7	17354.300	32.68	20.80	53.48	74.00	-20.52	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



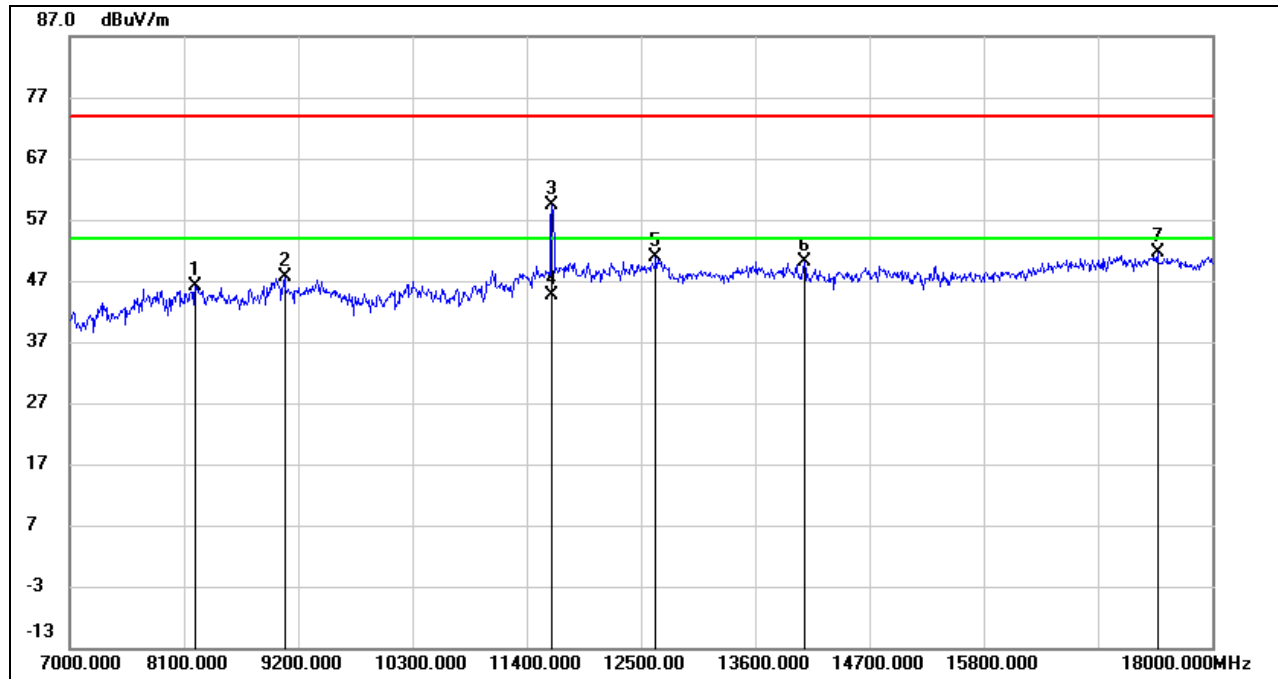
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8241.900	36.85	9.20	46.05	74.00	-27.95	peak
2	8943.700	36.70	10.03	46.73	74.00	-27.27	peak
3	11649.700	40.36	14.79	55.15	74.00	-18.85	peak
4	11649.700	26.33	14.79	41.12	54.00	-12.88	AVG
5	12728.800	34.69	15.52	50.21	74.00	-23.79	peak
6	13917.900	33.70	16.89	50.59	74.00	-23.41	peak
7	17957.100	29.14	22.68	51.82	74.00	-22.18	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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



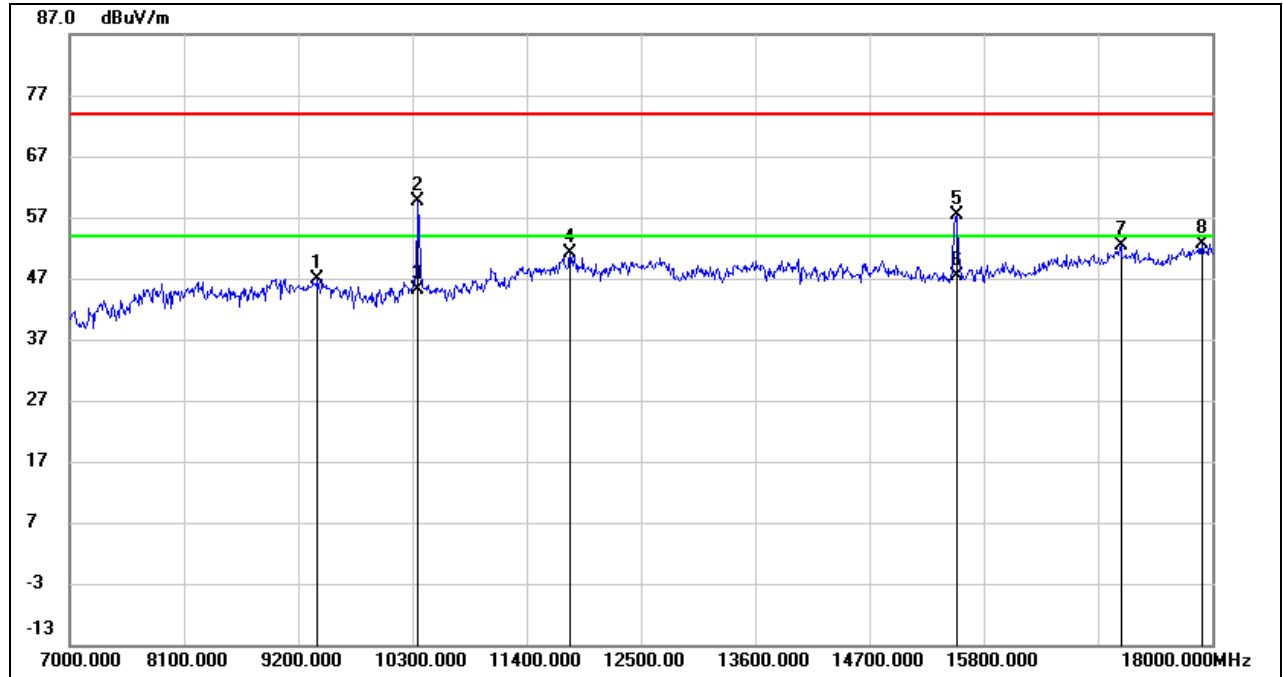
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8217.700	36.76	9.30	46.06	74.00	-27.94	peak
2	9076.800	37.42	10.11	47.53	74.00	-26.47	peak
3	11649.700	44.54	14.79	59.33	74.00	-14.67	peak
4	11649.700	29.83	14.79	44.62	54.00	-9.38	AVG
5	12652.900	35.56	15.38	50.94	74.00	-23.06	peak
6	14075.200	33.39	16.79	50.18	74.00	-23.82	peak
7	17481.900	30.88	20.82	51.70	74.00	-22.30	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.
  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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### 8.3.2. 802.11n HT20 MIMO MODE

#### UNII-1 BAND

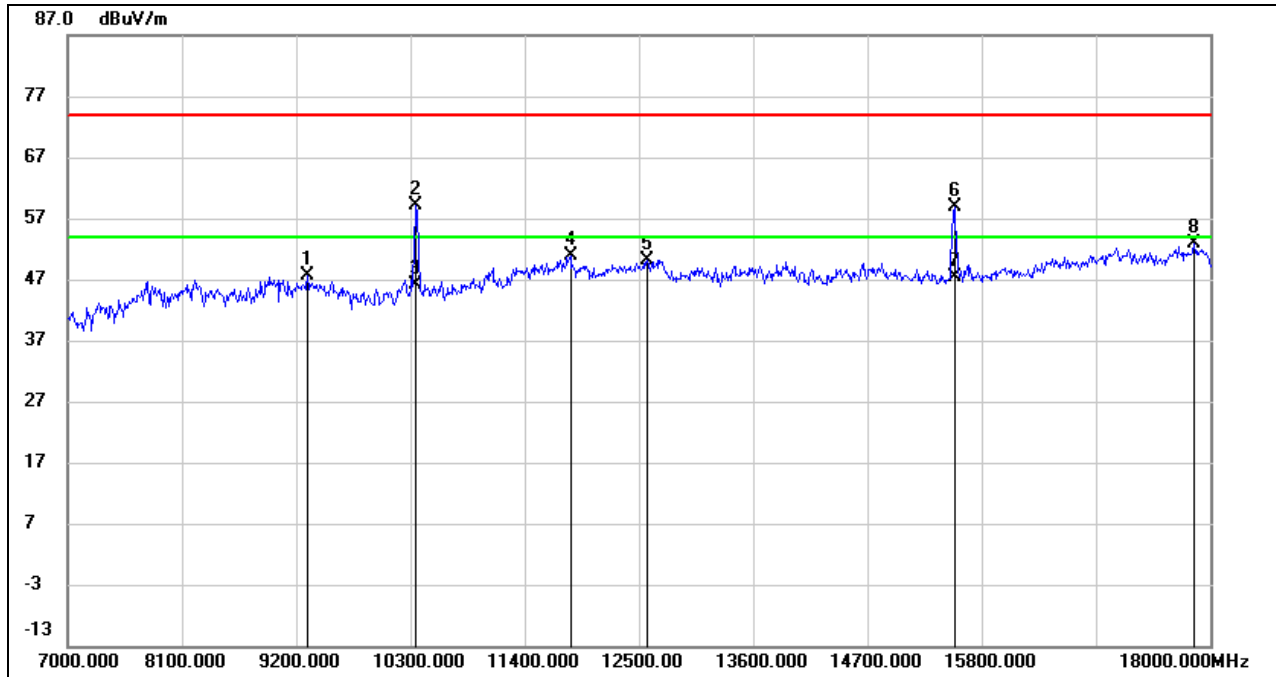
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9393.600	36.72	10.28	47.00	74.00	-27.00	peak
2	10361.600	48.23	11.32	59.55	74.00	-14.45	peak
3	10361.600	33.84	11.32	45.16	54.00	-8.84	AVG
4	11820.200	35.56	15.59	51.15	74.00	-22.85	peak
5	15540.400	40.88	16.56	57.44	74.00	-16.56	peak
6	15540.400	30.90	16.56	47.46	54.00	-6.54	AVG
7	17122.200	31.63	20.73	52.36	74.00	-21.64	peak
8	17905.400	30.01	22.70	52.71	74.00	-21.29	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

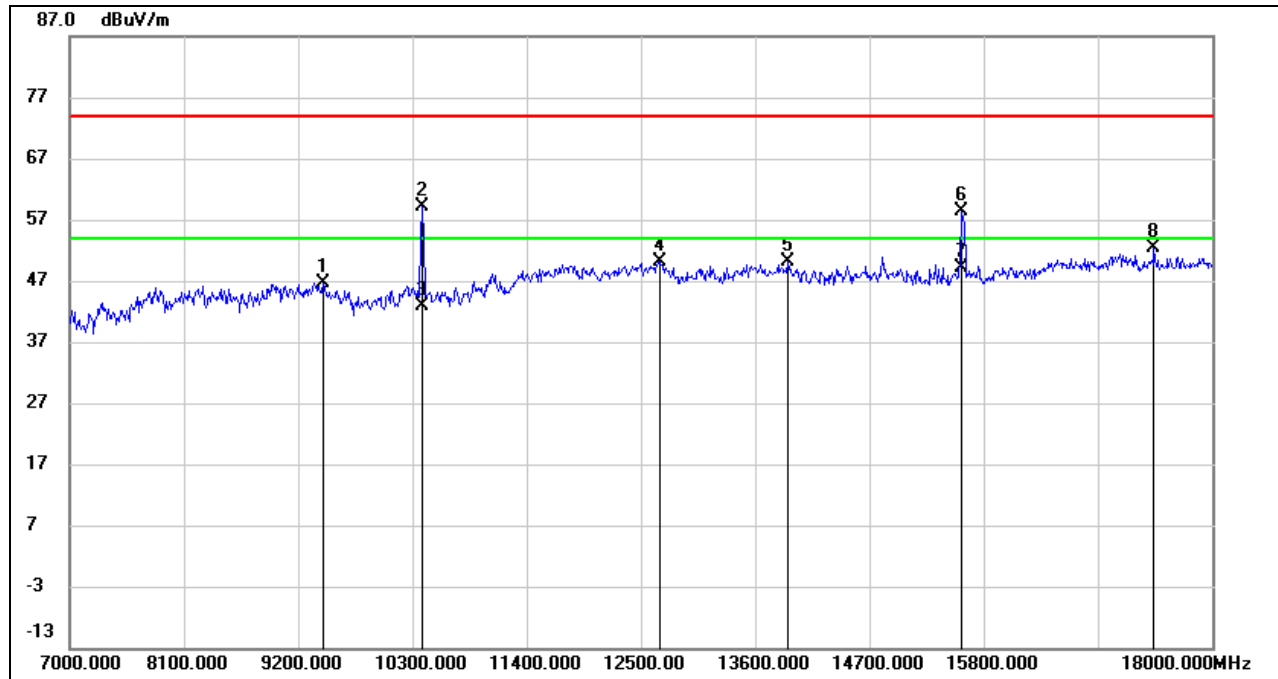
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9319.900	37.74	9.90	47.64	74.00	-26.36	peak
2	10361.600	47.92	11.32	59.24	74.00	-14.76	peak
3	10361.600	34.81	11.32	46.13	54.00	-7.87	AVG
4	11840.000	35.30	15.56	50.86	74.00	-23.14	peak
5	12585.800	34.78	15.30	50.08	74.00	-23.92	peak
6	15540.400	42.38	16.56	58.94	74.00	-15.06	peak
7	15540.400	30.72	16.56	47.28	54.00	-6.72	AVG
8	17854.800	30.16	22.71	52.87	74.00	-21.13	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. 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.
  8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

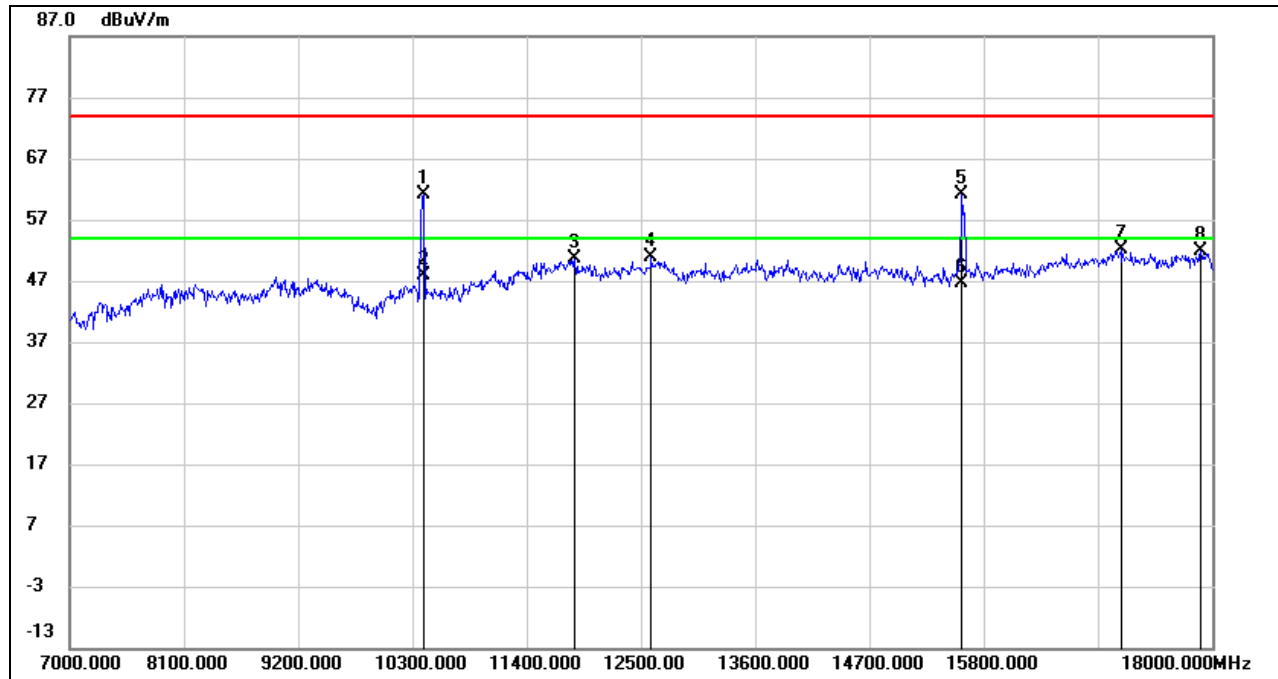


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9445.300	36.18	10.38	46.56	74.00	-27.44	peak
2	10404.500	47.67	11.47	59.14	74.00	-14.86	peak
3	10404.500	31.29	11.47	42.76	54.00	-11.24	AVG
4	12685.900	34.64	15.45	50.09	74.00	-23.91	peak
5	13915.700	33.26	16.89	50.15	74.00	-23.85	peak
6	15595.400	41.58	16.69	58.27	74.00	-15.73	peak
7	15595.400	32.48	16.69	49.17	54.00	-4.83	AVG
8	17445.600	31.70	20.78	52.48	74.00	-21.52	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 High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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



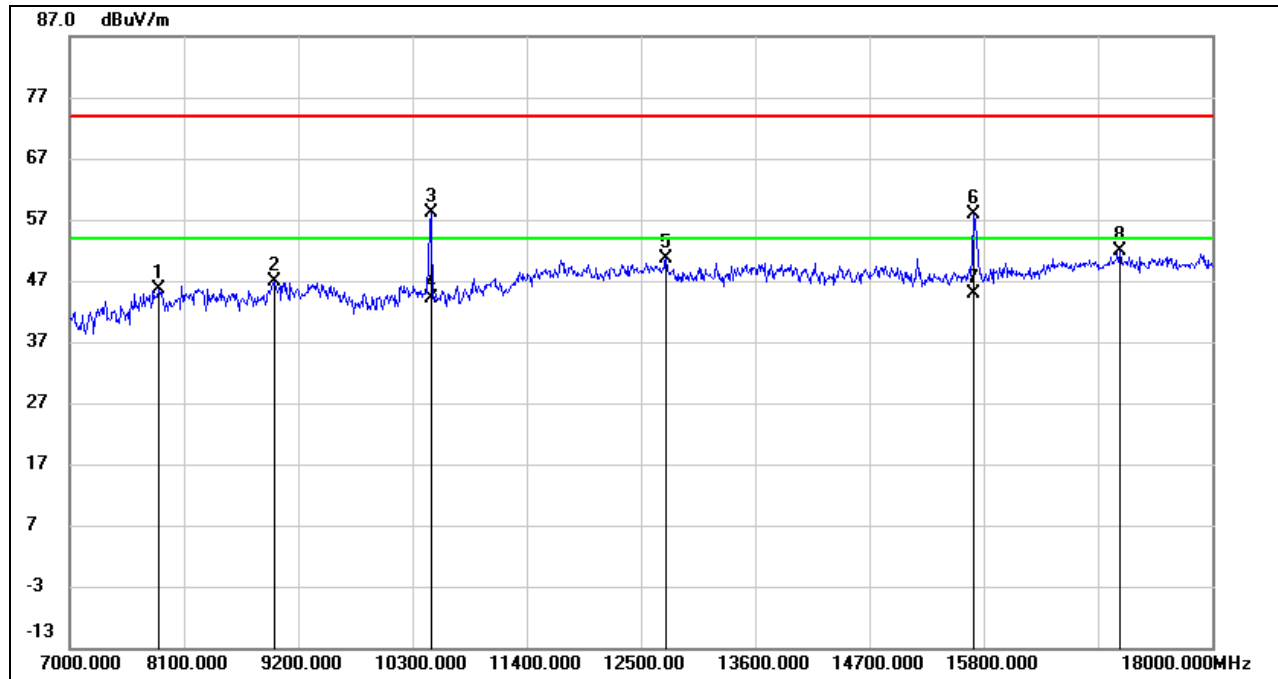
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10412.200	49.54	11.51	61.05	74.00	-12.95	peak
2	10412.200	36.47	11.51	47.98	54.00	-6.02	AVG
3	11866.400	35.09	15.51	50.60	74.00	-23.40	peak
4	12604.500	35.60	15.30	50.90	74.00	-23.10	peak
5	15596.500	44.40	16.70	61.10	74.00	-12.90	peak
6	15596.500	29.98	16.70	46.68	54.00	-7.32	AVG
7	17127.700	31.32	20.75	52.07	74.00	-21.93	peak
8	17897.700	29.29	22.69	51.98	74.00	-22.02	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





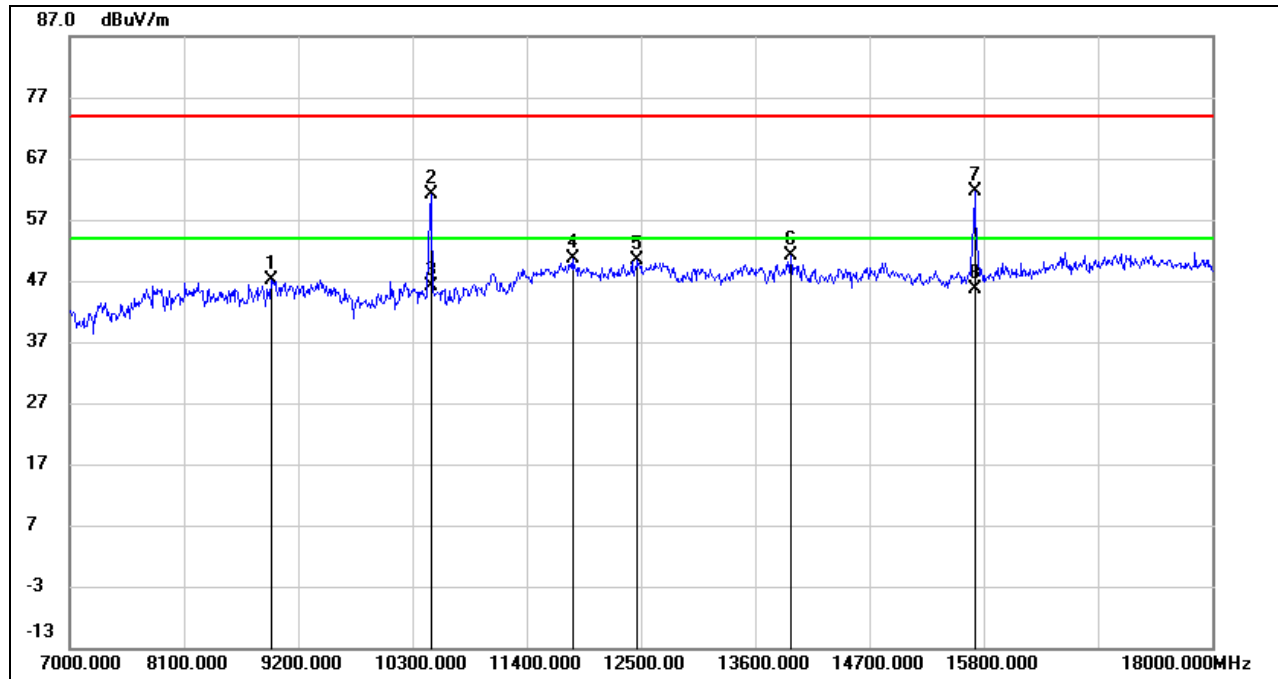
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7865.700	37.46	8.06	45.52	74.00	-28.48	peak
2	8971.200	36.55	10.33	46.88	74.00	-27.12	peak
3	10482.600	46.31	11.87	58.18	74.00	-15.82	peak
4	10482.600	32.30	11.87	44.17	54.00	-9.83	AVG
5	12744.200	34.97	15.56	50.53	74.00	-23.47	peak
6	15706.500	41.16	16.76	57.92	74.00	-16.08	peak
7	15706.500	28.21	16.76	44.97	54.00	-9.03	AVG
8	17116.700	31.11	20.70	51.81	74.00	-22.19	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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



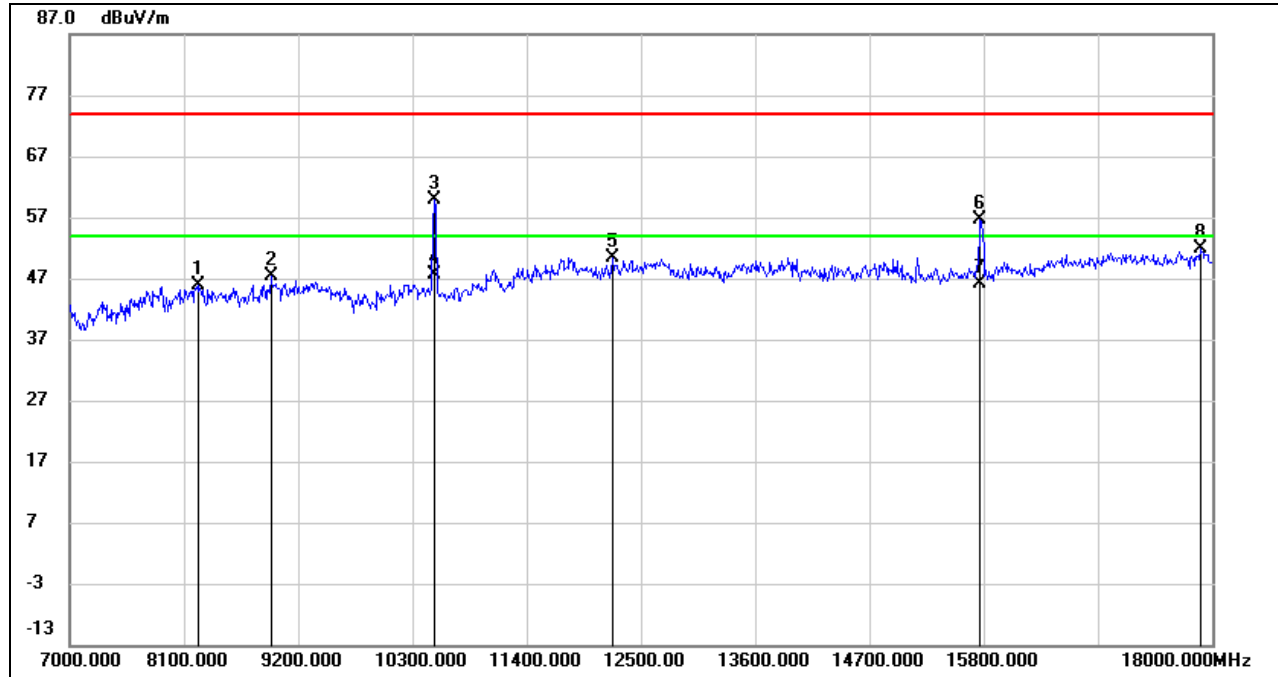
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8945.900	37.11	10.06	47.17	74.00	-26.83	peak
2	10481.500	49.31	11.87	61.18	74.00	-12.82	peak
3	10481.500	34.30	11.87	46.17	54.00	-7.83	AVG
4	11840.000	35.18	15.56	50.74	74.00	-23.26	peak
5	12473.600	34.92	15.41	50.33	74.00	-23.67	peak
6	13941.000	34.16	16.88	51.04	74.00	-22.96	peak
7	15721.900	44.86	16.77	61.63	74.00	-12.37	peak
8	15721.900	28.90	16.77	45.67	54.00	-8.33	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-2A BAND**

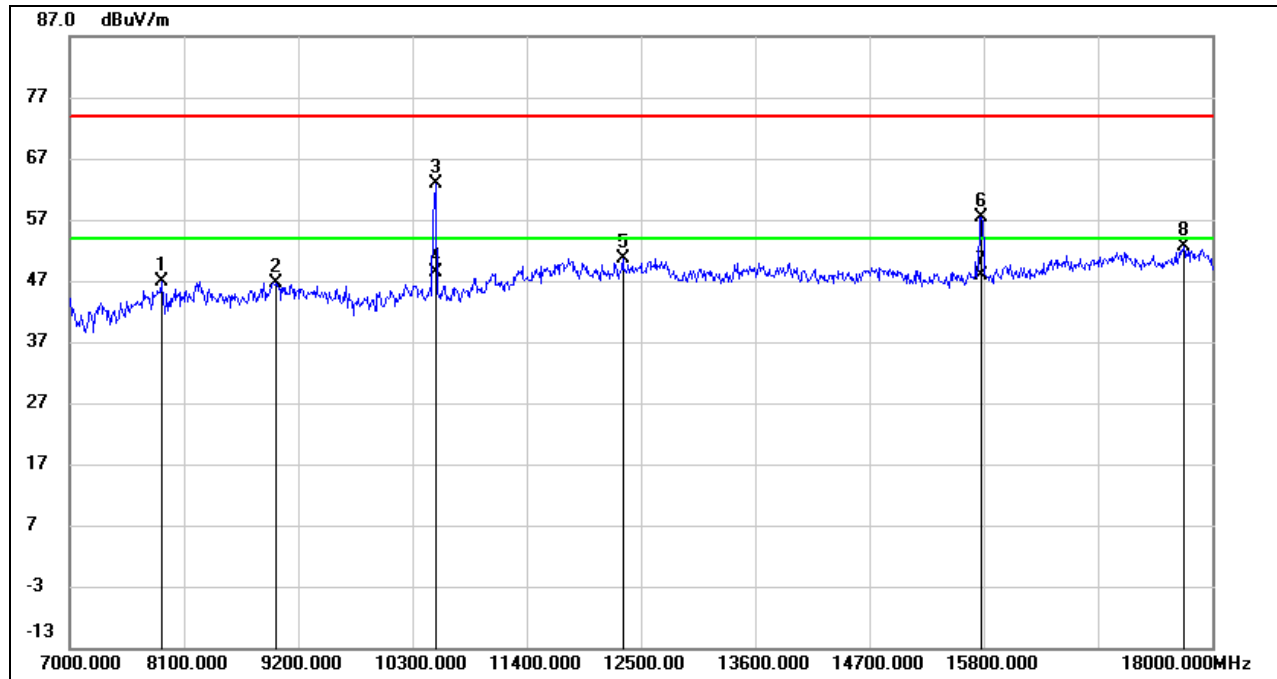
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8237.500	36.61	9.21	45.82	74.00	-28.18	peak
2	8941.500	37.29	10.01	47.30	74.00	-26.70	peak
3	10518.900	47.90	12.03	59.93	74.00	-14.07	peak
4	10518.900	35.62	12.03	47.65	54.00	-6.35	AVG
5	12227.200	35.30	15.16	50.46	74.00	-23.54	peak
6	15775.800	39.71	16.82	56.53	74.00	-17.47	peak
7	15775.800	29.24	16.82	46.06	54.00	-7.94	AVG
8	17897.700	29.17	22.69	51.86	74.00	-22.14	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

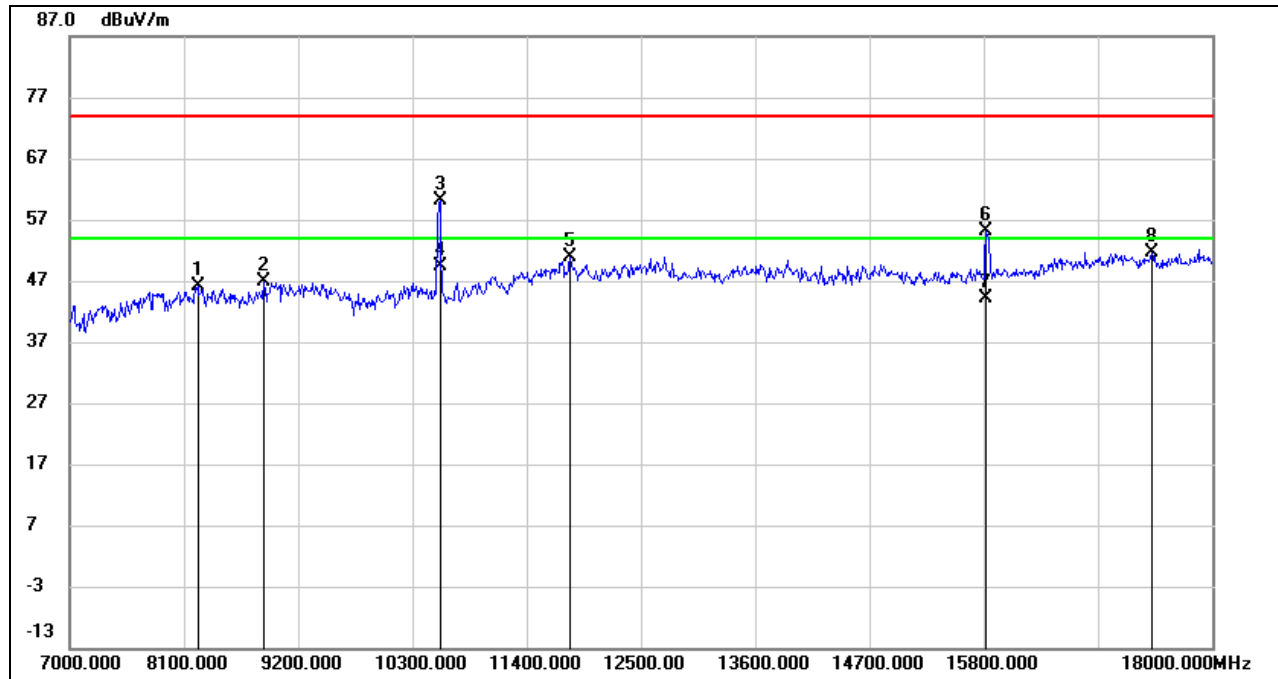
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7889.900	38.82	7.99	46.81	74.00	-27.19	peak
2	8983.300	36.20	10.46	46.66	74.00	-27.34	peak
3	10522.200	50.79	12.04	62.83	74.00	-11.17	peak
4	10522.200	36.28	12.04	48.32	54.00	-5.68	AVG
5	12328.400	35.34	15.38	50.72	74.00	-23.28	peak
6	15786.800	40.45	16.82	57.27	74.00	-16.73	peak
7	15786.800	31.04	16.82	47.86	54.00	-6.14	AVG
8	17734.900	30.30	22.21	52.51	74.00	-21.49	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

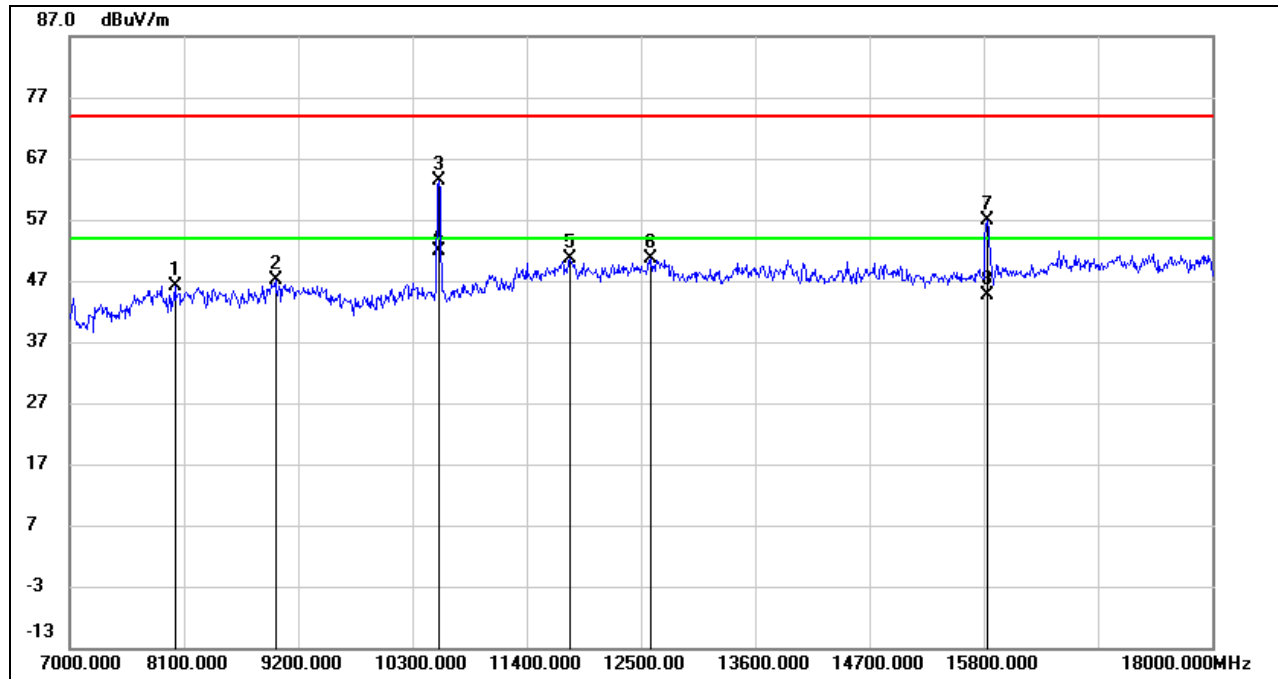
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8236.400	36.88	9.22	46.10	74.00	-27.90	peak
2	8871.100	37.51	9.27	46.78	74.00	-27.22	peak
3	10565.100	47.87	12.22	60.09	74.00	-13.91	peak
4	10565.100	37.10	12.22	49.32	54.00	-4.68	AVG
5	11820.200	35.38	15.59	50.97	74.00	-23.03	peak
6	15831.900	38.30	16.89	55.19	74.00	-18.81	peak
7	15831.900	27.29	16.89	44.18	54.00	-9.82	AVG
8	17423.600	30.98	20.75	51.73	74.00	-22.27	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

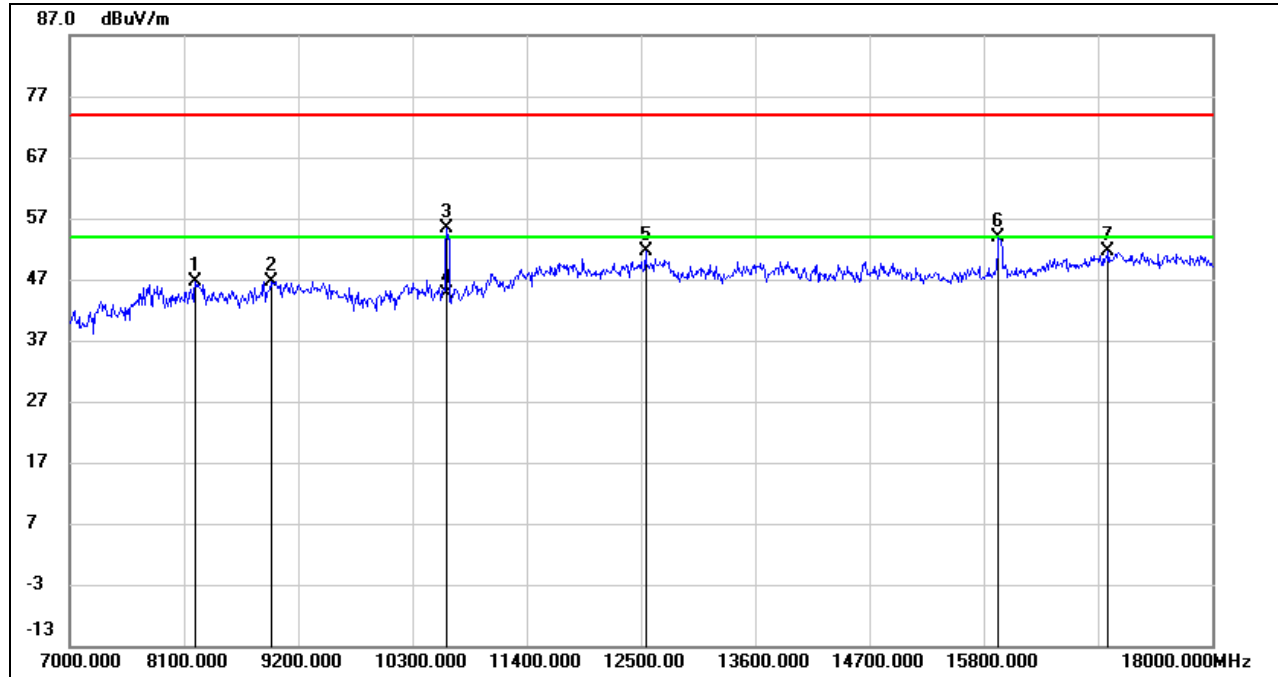


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8021.900	38.31	7.85	46.16	74.00	-27.84	peak
2	8980.000	36.60	10.41	47.01	74.00	-26.99	peak
3	10560.700	51.28	12.21	63.49	74.00	-10.51	peak
4	10560.700	39.62	12.21	51.83	54.00	-2.17	AVG
5	11822.400	34.96	15.58	50.54	74.00	-23.46	peak
6	12608.900	35.26	15.30	50.56	74.00	-23.44	peak
7	15842.900	40.05	16.92	56.97	74.00	-17.03	peak
8	15842.900	27.65	16.92	44.57	54.00	-9.43	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



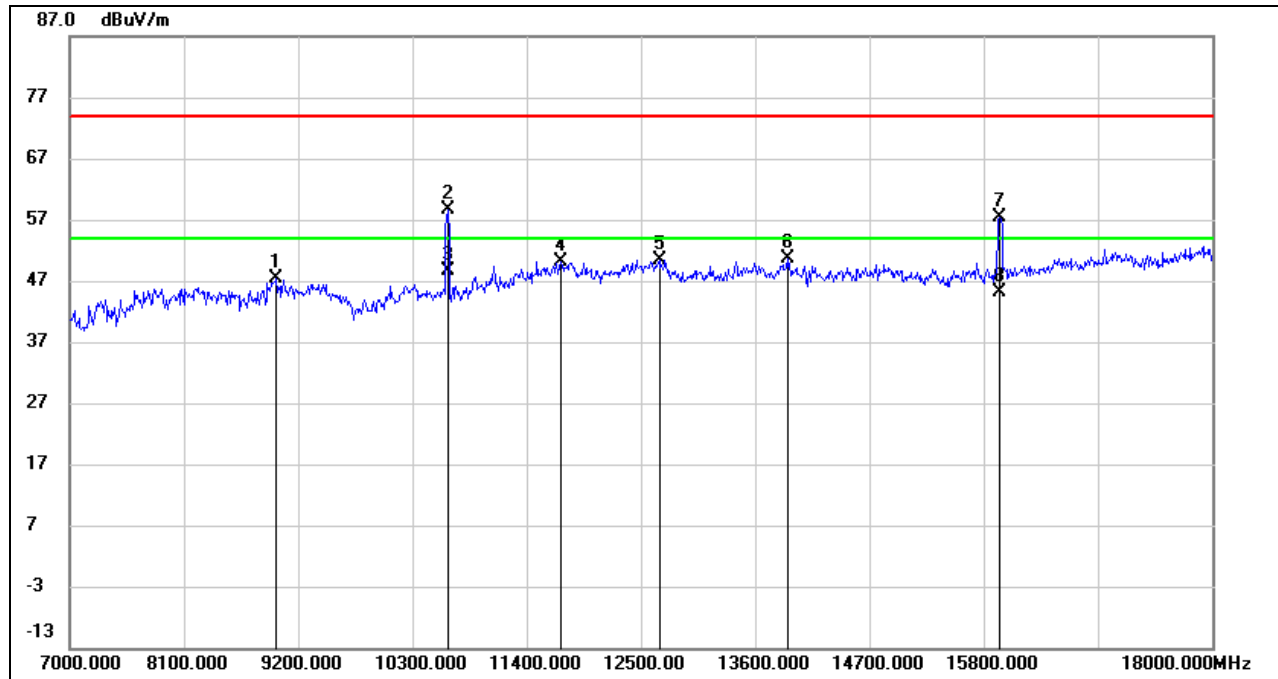
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8218.800	37.44	9.29	46.73	74.00	-27.27	peak
2	8945.900	36.61	10.06	46.67	74.00	-27.33	peak
3	10635.500	42.91	12.42	55.33	74.00	-18.67	peak
4	10635.500	32.17	12.42	44.59	54.00	-9.41	AVG
5	12551.700	36.25	15.33	51.58	74.00	-22.42	peak
6	15950.700	36.68	17.13	53.81	74.00	-20.19	peak
7	17004.500	31.31	20.24	51.55	74.00	-22.45	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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



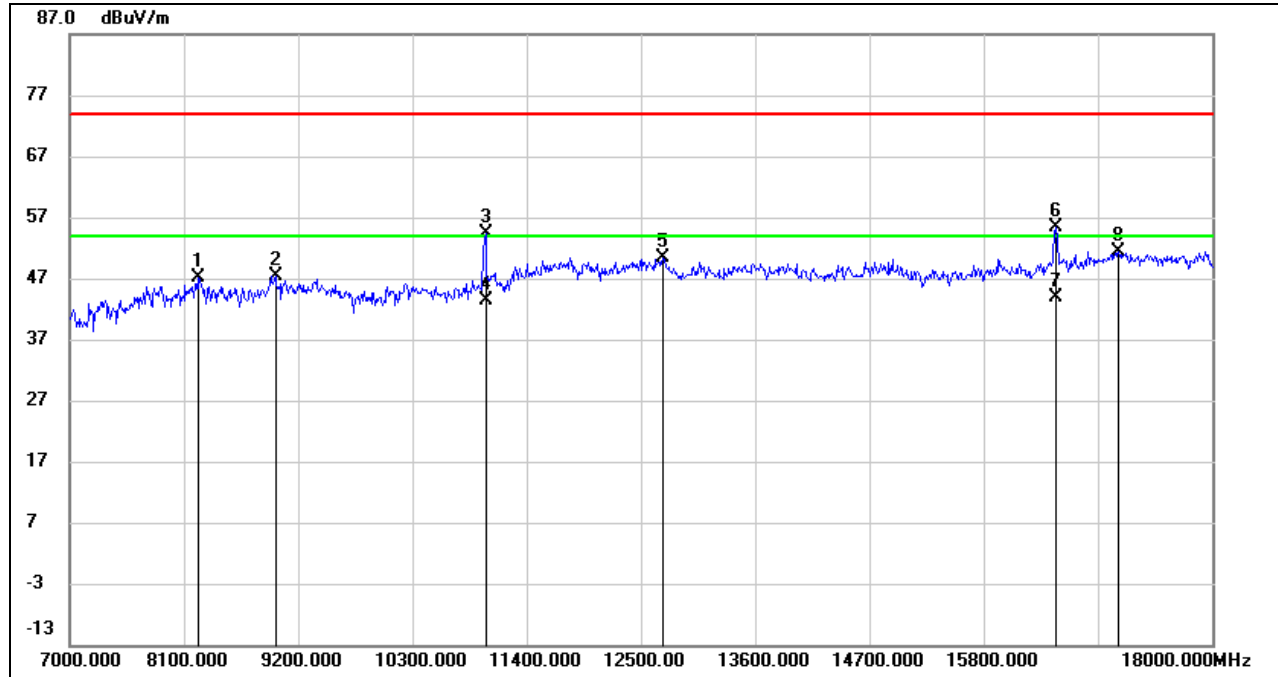
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8994.300	36.83	10.57	47.40	74.00	-26.60	peak
2	10641.000	46.32	12.42	58.74	74.00	-15.26	peak
3	10641.000	36.25	12.42	48.67	54.00	-5.33	AVG
4	11733.300	34.89	15.24	50.13	74.00	-23.87	peak
5	12685.900	34.99	15.45	50.44	74.00	-23.56	peak
6	13916.800	33.62	16.89	50.51	74.00	-23.49	peak
7	15961.700	40.28	17.16	57.44	74.00	-16.56	peak
8	15961.700	27.95	17.16	45.11	54.00	-8.89	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-2C BAND**

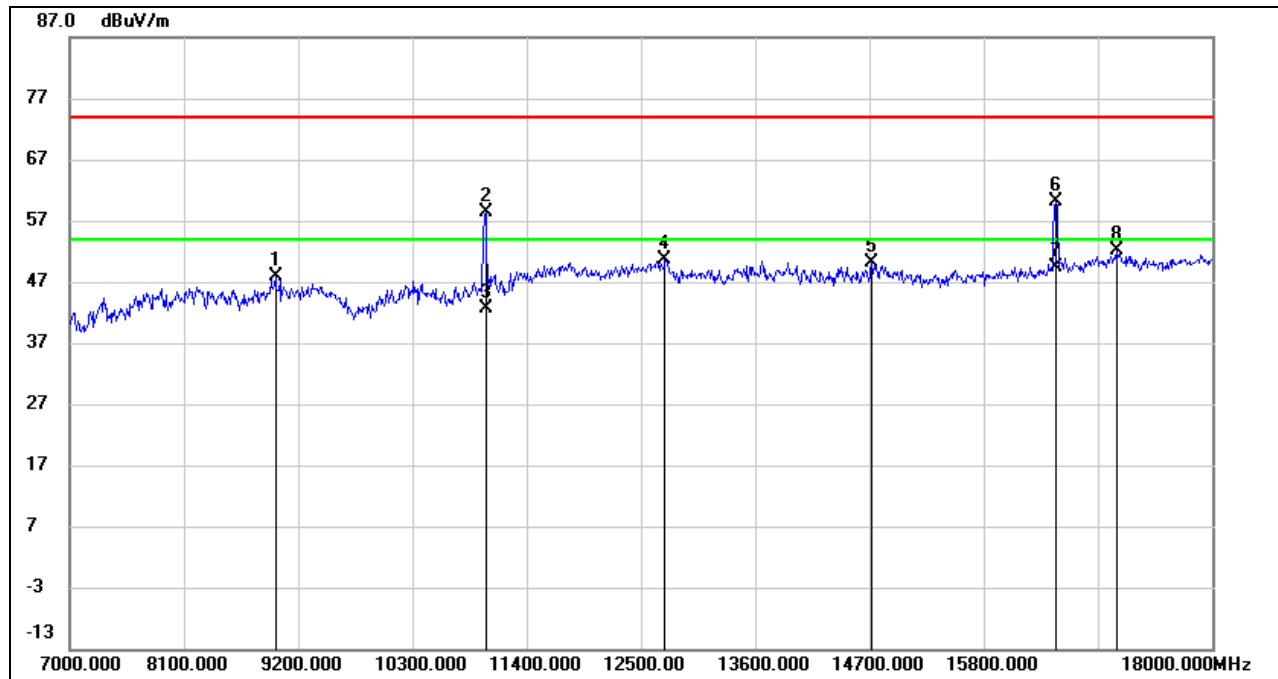
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8241.900	37.84	9.20	47.04	74.00	-26.96	peak
2	8980.000	37.07	10.41	47.48	74.00	-26.52	peak
3	11006.200	41.08	13.26	54.34	74.00	-19.66	peak
4	11006.200	30.21	13.26	43.47	54.00	-10.53	AVG
5	12717.800	34.85	15.50	50.35	74.00	-23.65	peak
6	16498.500	36.26	19.12	55.38	74.00	-18.62	peak
7	16498.500	24.74	19.12	43.86	54.00	-10.14	AVG
8	17103.500	30.83	20.65	51.48	74.00	-22.52	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. 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.
  8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

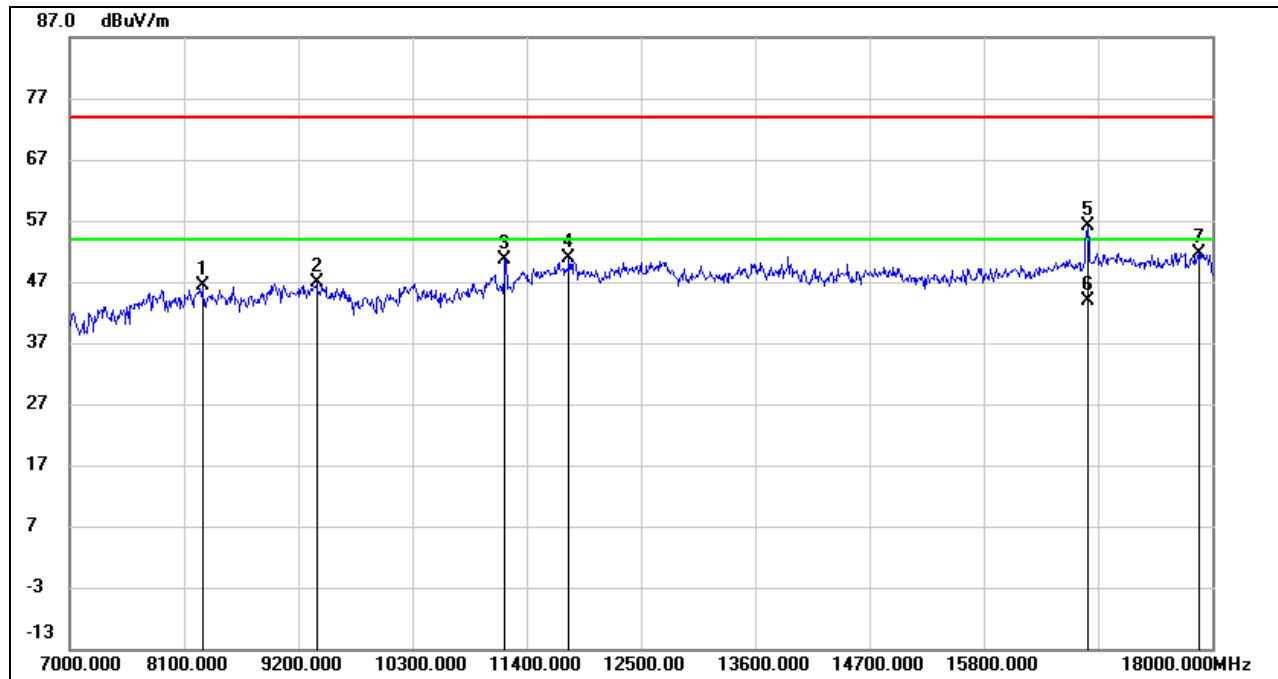


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8985.500	37.35	10.48	47.83	74.00	-26.17	peak
2	11005.100	45.07	13.26	58.33	74.00	-15.67	peak
3	11005.100	29.37	13.26	42.63	54.00	-11.37	AVG
4	12740.900	35.02	15.54	50.56	74.00	-23.44	peak
5	14727.500	33.49	16.67	50.16	74.00	-23.84	peak
6	16494.100	41.05	19.10	60.15	74.00	-13.85	peak
7	16494.100	30.25	19.10	49.35	54.00	-4.65	AVG
8	17088.100	31.42	20.59	52.01	74.00	-21.99	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



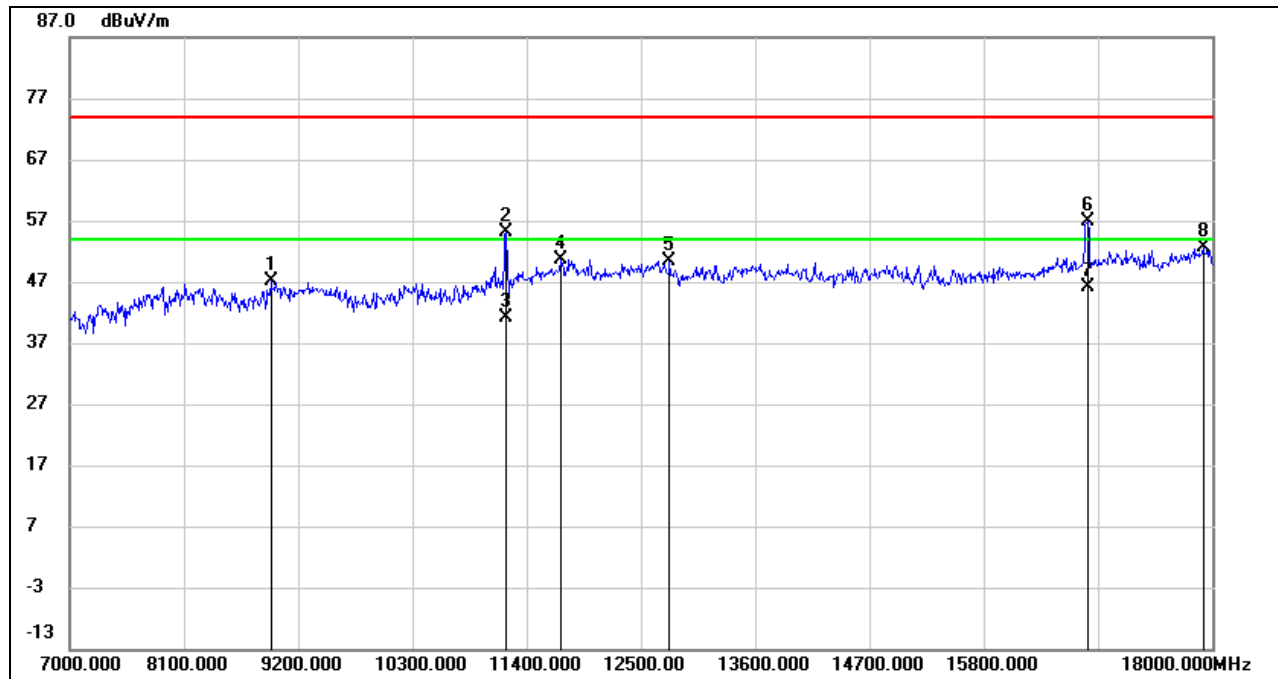
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8277.100	37.43	9.06	46.49	74.00	-27.51	peak
2	9379.300	36.72	10.20	46.92	74.00	-27.08	peak
3	11196.500	36.94	13.64	50.58	74.00	-23.42	peak
4	11813.600	35.20	15.59	50.79	74.00	-23.21	peak
5	16803.200	36.47	19.75	56.22	74.00	-17.78	peak
6	16803.200	24.09	19.75	43.84	54.00	-10.16	AVG
7	17875.700	29.05	22.70	51.75	74.00	-22.25	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

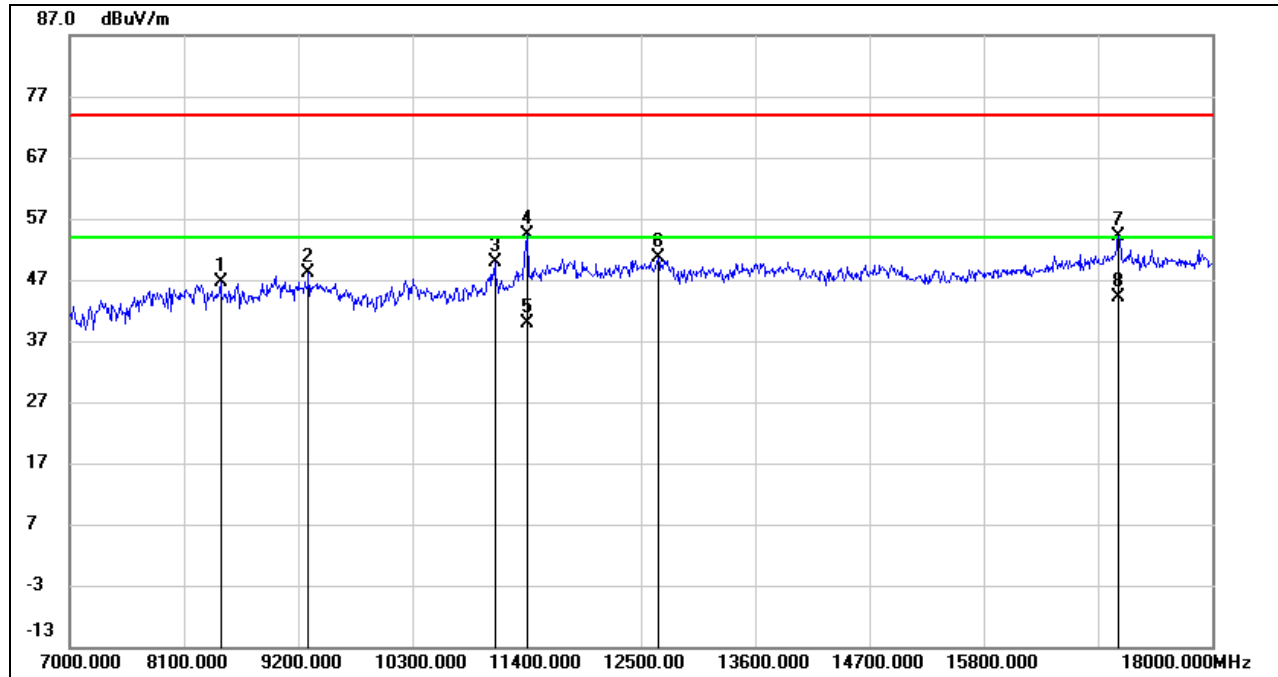
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8941.500	37.00	10.01	47.01	74.00	-26.99	peak
2	11204.200	41.42	13.65	55.07	74.00	-18.93	peak
3	11204.200	27.50	13.65	41.15	54.00	-12.85	AVG
4	11731.100	35.44	15.23	50.67	74.00	-23.33	peak
5	12778.300	34.82	15.61	50.43	74.00	-23.57	peak
6	16807.600	37.23	19.76	56.99	74.00	-17.01	peak
7	16807.600	26.43	19.76	46.19	54.00	-7.81	AVG
8	17917.500	29.84	22.69	52.53	74.00	-21.47	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

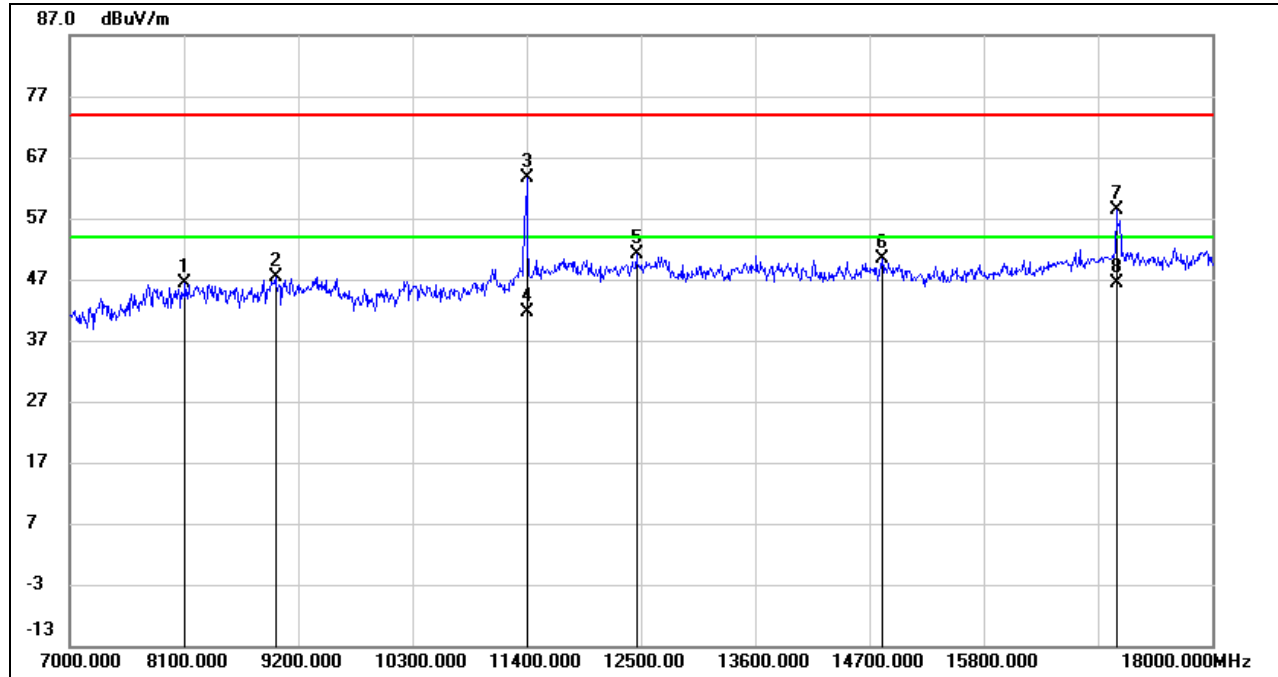
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8458.600	38.03	8.56	46.59	74.00	-27.41	peak
2	9306.700	38.20	9.83	48.03	74.00	-25.97	peak
3	11097.500	36.41	13.44	49.85	74.00	-24.15	peak
4	11403.300	40.18	14.22	54.40	74.00	-19.60	peak
5	11403.300	25.62	14.22	39.84	54.00	-14.16	AVG
6	12671.600	35.32	15.42	50.74	74.00	-23.26	peak
7	17103.500	33.39	20.65	54.04	74.00	-19.96	peak
8	17103.500	23.50	20.65	44.15	54.00	-9.85	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

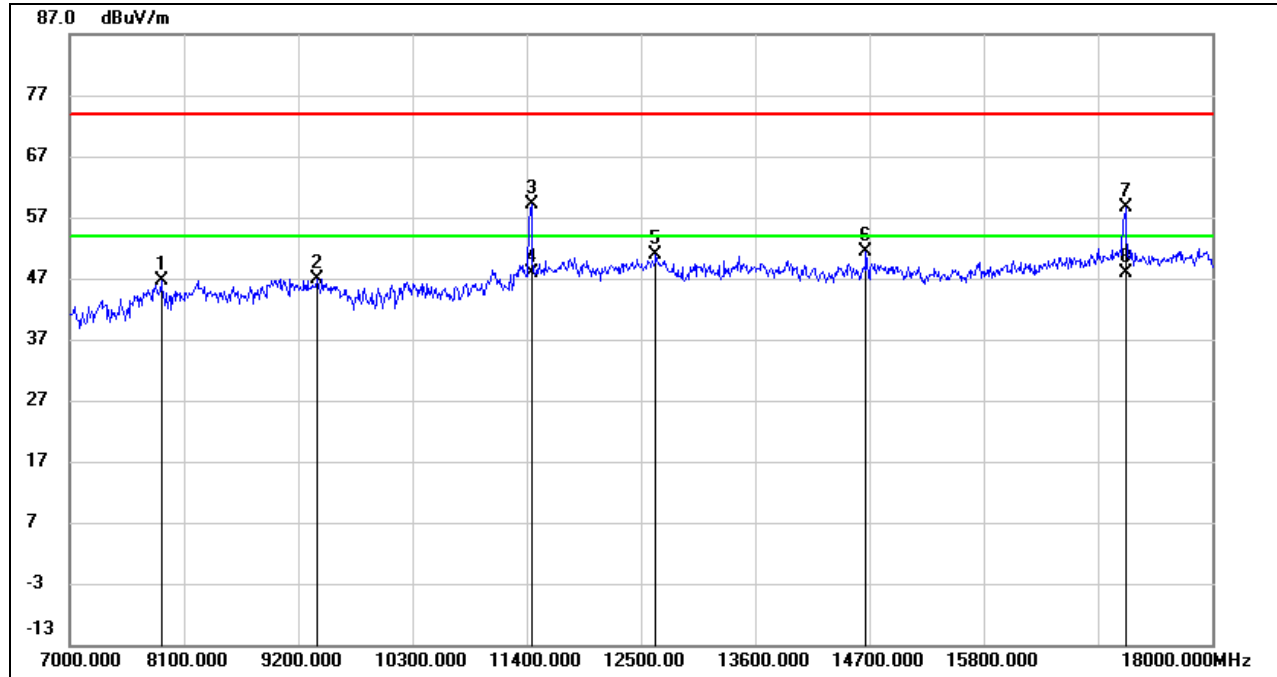


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8120.900	37.72	8.69	46.41	74.00	-27.59	peak
2	8987.700	37.00	10.50	47.50	74.00	-26.50	peak
3	11400.000	49.29	14.22	63.51	74.00	-10.49	peak
4	11400.000	27.47	14.22	41.69	54.00	-12.31	AVG
5	12460.400	35.60	15.42	51.02	74.00	-22.98	peak
6	14827.600	33.68	16.81	50.49	74.00	-23.51	peak
7	17083.700	37.89	20.57	58.46	74.00	-15.54	peak
8	17083.700	25.90	20.57	46.47	54.00	-7.53	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**STRADDLE CHANNEL 144**

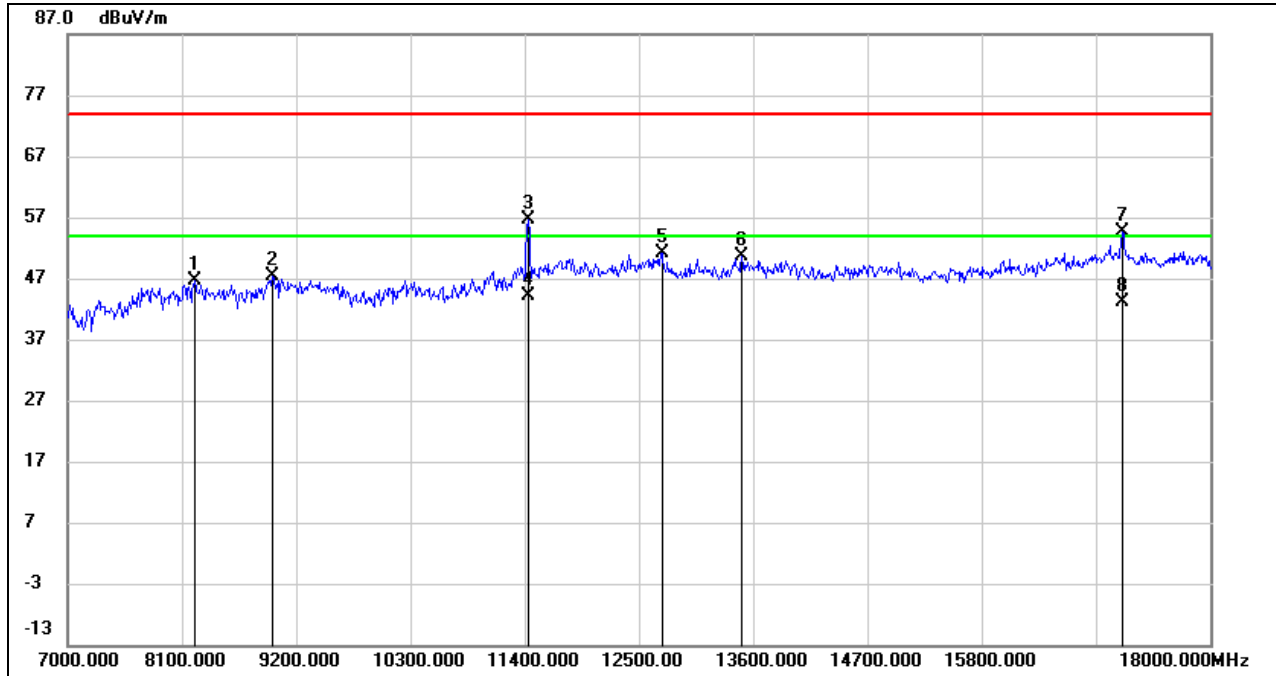
**HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7883.300	38.55	8.00	46.55	74.00	-27.45	peak
2	9385.900	36.76	10.24	47.00	74.00	-27.00	peak
3	11445.100	44.81	14.28	59.09	74.00	-14.91	peak
4	11445.100	33.58	14.28	47.86	54.00	-6.14	AVG
5	12646.300	35.39	15.38	50.77	74.00	-23.23	peak
6	14668.100	34.83	16.58	51.41	74.00	-22.59	peak
7	17173.900	37.76	20.94	58.70	74.00	-15.30	peak
8	17173.900	26.90	20.94	47.84	54.00	-6.16	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)**



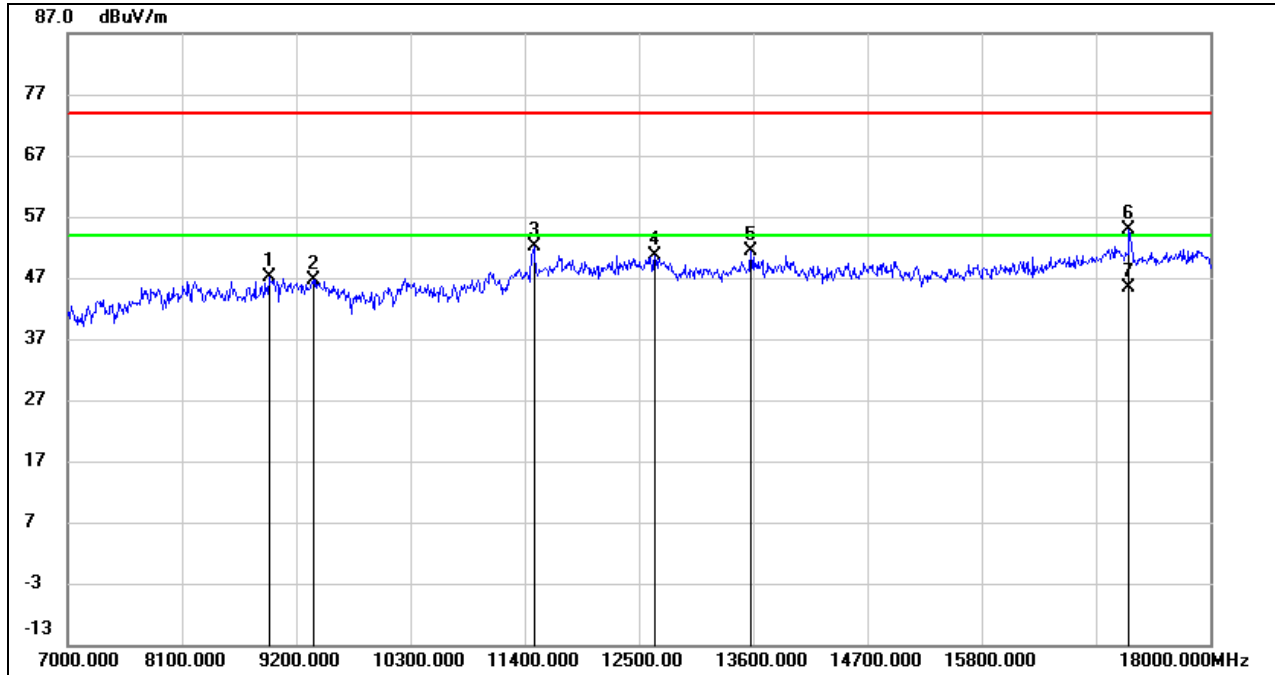
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8223.200	37.45	9.28	46.73	74.00	-27.27	peak
2	8970.100	37.09	10.32	47.41	74.00	-26.59	peak
3	11437.400	42.28	14.27	56.55	74.00	-17.45	peak
4	11437.400	29.87	14.27	44.14	54.00	-9.86	AVG
5	12727.700	35.69	15.52	51.21	74.00	-22.79	peak
6	13496.600	34.28	16.42	50.70	74.00	-23.30	peak
7	17160.700	33.71	20.88	54.59	74.00	-19.41	peak
8	17160.700	22.15	20.88	43.03	54.00	-10.97	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**UNII-3 BAND**

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

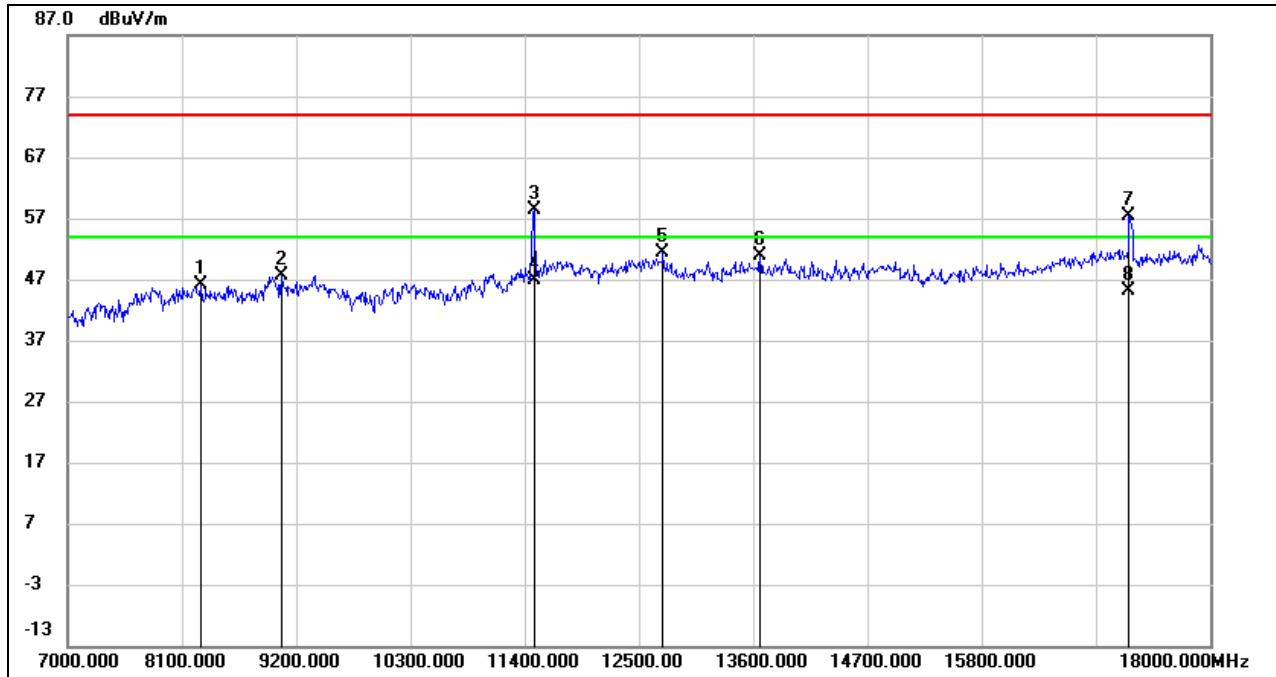


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8939.300	37.03	9.99	47.02	74.00	-26.98	peak
2	9367.200	36.45	10.14	46.59	74.00	-27.41	peak
3	11491.300	37.82	14.34	52.16	74.00	-21.84	peak
4	12662.800	35.15	15.40	50.55	74.00	-23.45	peak
5	13582.400	34.84	16.43	51.27	74.00	-22.73	peak
6	17226.700	33.90	21.00	54.90	74.00	-19.10	peak
7	17226.700	24.28	21.00	45.28	54.00	-8.72	AVG

- 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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

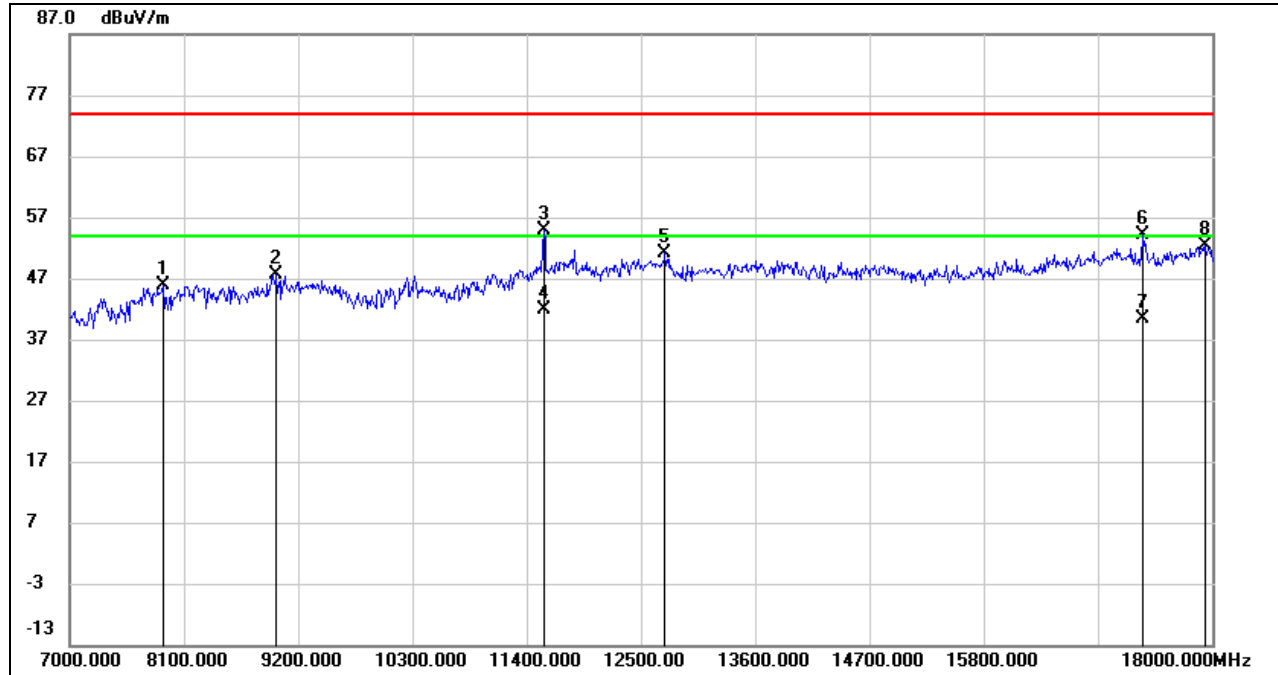


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8284.800	37.18	9.03	46.21	74.00	-27.79	peak
2	9064.700	37.51	10.19	47.70	74.00	-26.30	peak
3	11490.200	44.01	14.34	58.35	74.00	-15.65	peak
4	11490.200	32.64	14.34	46.98	54.00	-7.02	AVG
5	12736.500	35.96	15.53	51.49	74.00	-22.51	peak
6	13670.400	34.16	16.60	50.76	74.00	-23.24	peak
7	17228.900	36.41	20.99	57.40	74.00	-16.60	peak
8	17228.900	24.11	20.99	45.10	54.00	-8.90	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

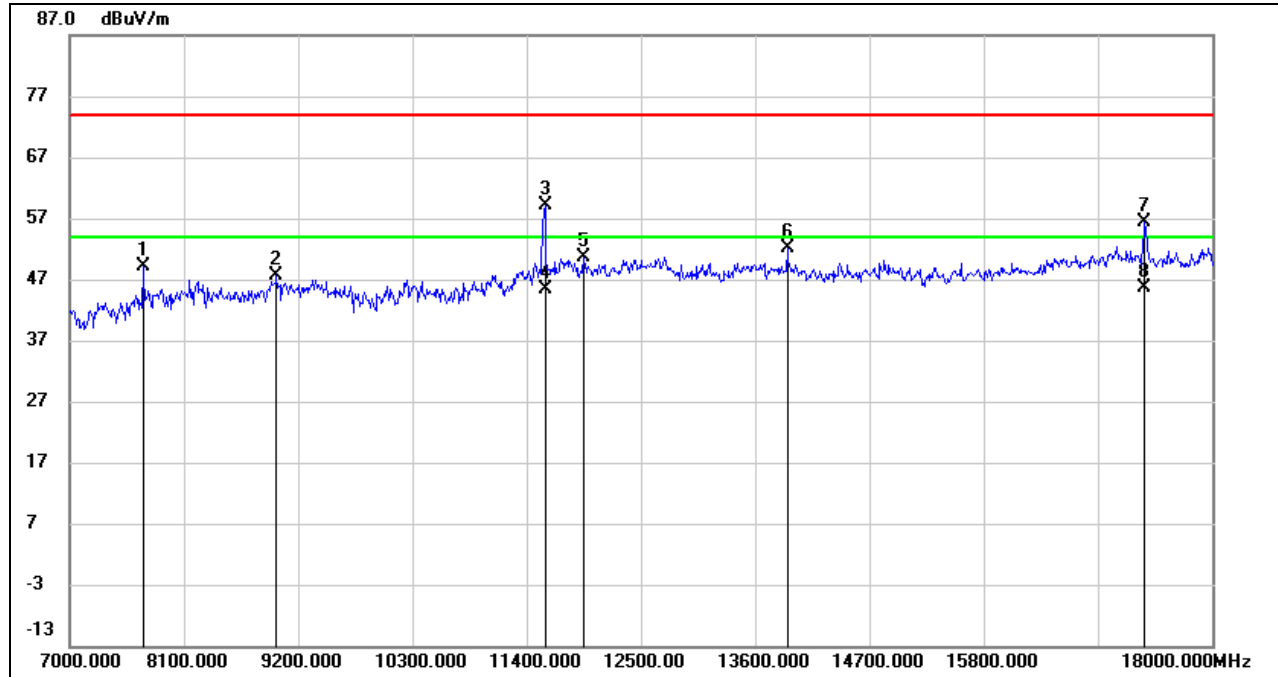


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7903.100	37.96	7.94	45.90	74.00	-28.10	peak
2	8993.200	37.09	10.55	47.64	74.00	-26.36	peak
3	11567.200	40.49	14.46	54.95	74.00	-19.05	peak
4	11567.200	27.41	14.46	41.87	54.00	-12.13	AVG
5	12735.400	35.66	15.53	51.19	74.00	-22.81	peak
6	17338.900	33.25	20.83	54.08	74.00	-19.92	peak
7	17338.900	19.58	20.83	40.41	54.00	-13.59	AVG
8	17936.200	29.71	22.69	52.40	74.00	-21.60	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

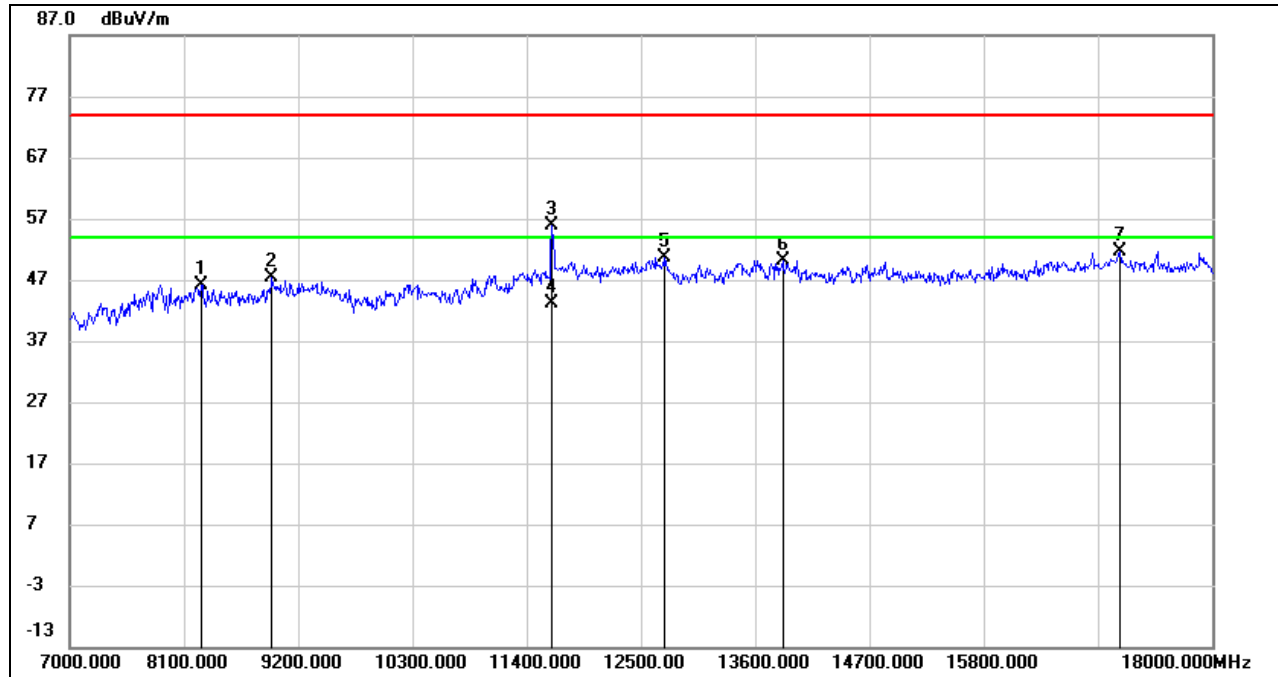


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7712.800	41.12	7.91	49.03	74.00	-24.97	peak
2	8998.700	36.97	10.62	47.59	74.00	-26.41	peak
3	11578.200	44.72	14.48	59.20	74.00	-14.80	peak
4	11578.200	31.00	14.48	45.48	54.00	-8.52	AVG
5	11955.500	35.26	15.39	50.65	74.00	-23.35	peak
6	13916.800	35.16	16.89	52.05	74.00	-21.95	peak
7	17351.000	35.59	20.81	56.40	74.00	-17.60	peak
8	17351.000	24.90	20.81	45.71	54.00	-8.29	AVG

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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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

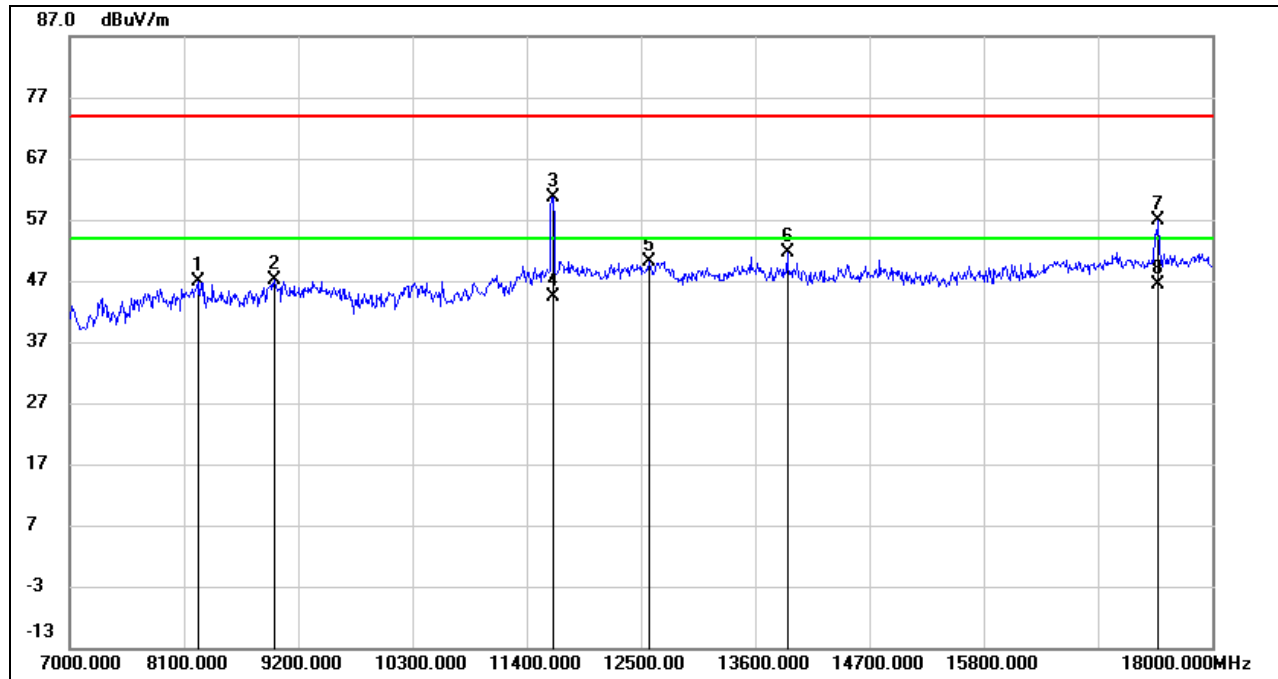


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8268.300	37.07	9.10	46.17	74.00	-27.83	peak
2	8947.000	37.28	10.07	47.35	74.00	-26.65	peak
3	11645.300	41.03	14.76	55.79	74.00	-18.21	peak
4	11645.300	28.42	14.76	43.18	54.00	-10.82	AVG
5	12728.800	35.23	15.52	50.75	74.00	-23.25	peak
6	13866.200	33.30	16.92	50.22	74.00	-23.78	peak
7	17113.400	31.02	20.69	51.71	74.00	-22.29	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	8233.100	37.60	9.23	46.83	74.00	-27.17	peak
2	8972.300	36.77	10.34	47.11	74.00	-26.89	peak
3	11655.200	45.78	14.82	60.60	74.00	-13.40	peak
4	11655.200	29.66	14.82	44.48	54.00	-9.52	AVG
5	12585.800	34.73	15.30	50.03	74.00	-23.97	peak
6	13917.900	34.65	16.89	51.54	74.00	-22.46	peak
7	17487.400	36.10	20.82	56.92	74.00	-17.08	peak
8	17487.400	25.59	20.82	46.41	54.00	-7.59	AVG

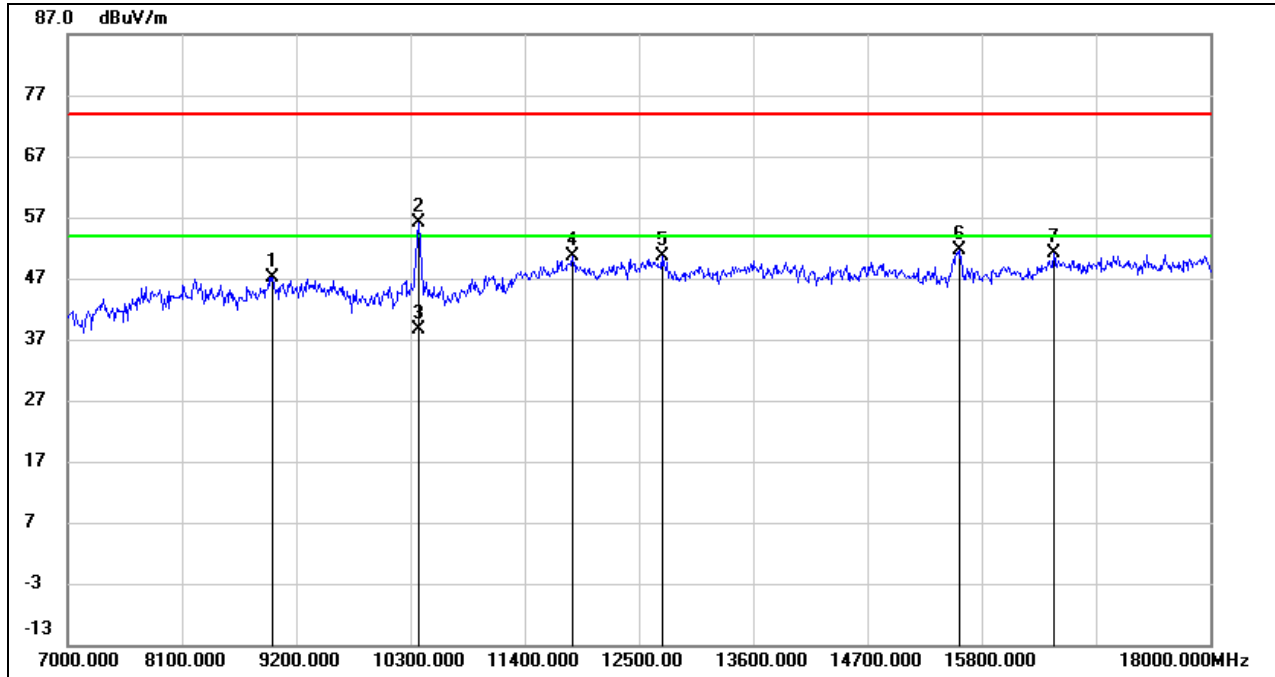
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 5. For the transmitting duration, please refer to clause 7.1.  
 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### 8.3.3. 802.11n HT40 MIMO MODE

#### UNII-1 BAND

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

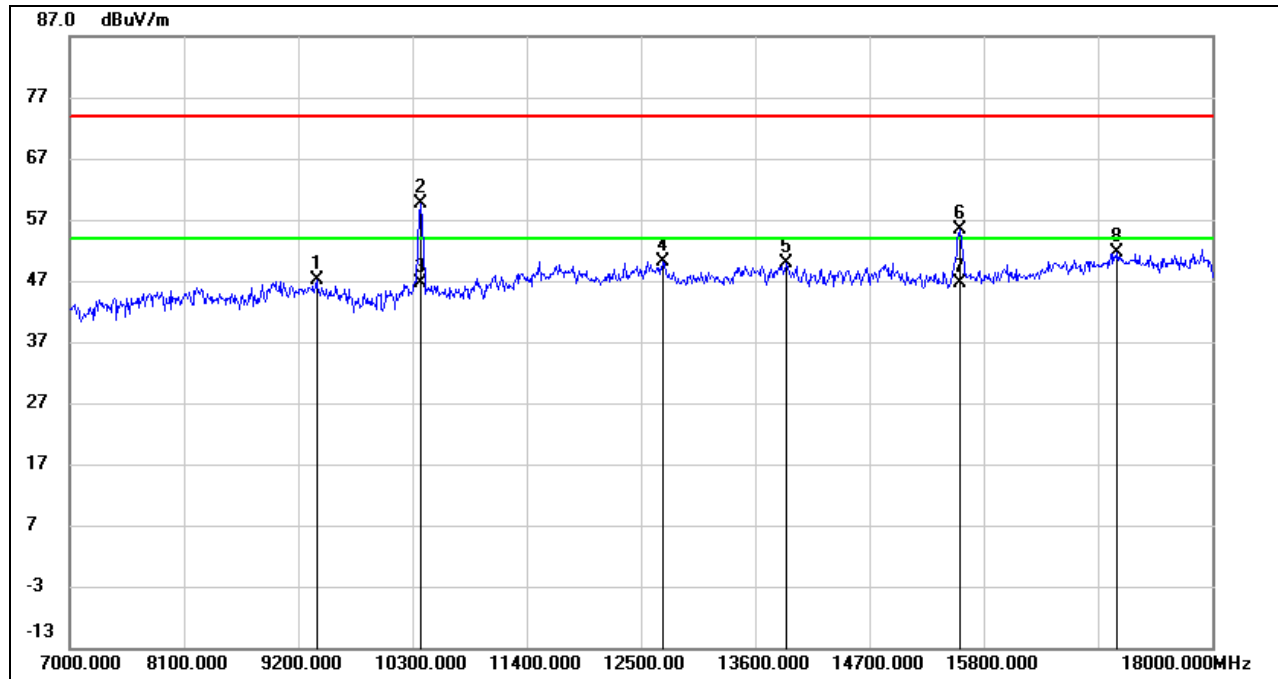


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8972.300	36.77	10.34	47.11	74.00	-26.89	peak
2	10380.300	44.69	11.38	56.07	74.00	-17.93	peak
3	10380.300	27.27	11.38	38.65	54.00	-15.35	AVG
4	11866.400	35.05	15.51	50.56	74.00	-23.44	peak
5	12727.700	35.09	15.52	50.61	74.00	-23.39	peak
6	15587.700	34.88	16.67	51.55	74.00	-22.45	peak
7	16497.400	32.05	19.11	51.16	74.00	-22.84	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**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	9383.700	36.79	10.23	47.02	74.00	-26.98	peak
2	10386.900	48.17	11.41	59.58	74.00	-14.42	peak
3	10386.900	35.17	11.41	46.58	54.00	-7.42	AVG
4	12714.500	34.76	15.49	50.25	74.00	-23.75	peak
5	13906.900	33.07	16.90	49.97	74.00	-24.03	peak
6	15573.400	38.72	16.63	55.35	74.00	-18.65	peak
7	15573.400	30.06	16.63	46.69	54.00	-7.31	AVG
8	17087.000	30.94	20.58	51.52	74.00	-22.48	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. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.