



CFR 47 FCC PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

WIFI+BT Module

MODEL NUMBER: WXT26M2101B

FCC ID: 2AC23-WXT261

REPORT NUMBER: 4789980357.1-8

ISSUE DATE: August 04, 2021

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	08/4/2021	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6dB Bandwidth	FCC Part 15.247 (a) (2)	Pass
2	Conducted Output Power	FCC Part 15.247 (b) (3)	Pass
3	Power Spectral Density	FCC Part 15.247 (e)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d)	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205	Pass
6	Conducted Emission Test for AC Power Port	FCC Part 15.207	Pass
7	Antenna Requirement	FCC Part 15.203	Pass
Note: 1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China. 2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

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

Manufacturer Information

Company Name: SHENZHEN TCL NEW TECHNOLOGY CO LTD
Address: GUANGDONG.SHENZHEN.TCL MULTIMEDIA BLDG.TCL
INTERNATIONAL E CITY.NO 1001 ZHONGSHANYUAN RD,
NANSHAN DIST

EUT Information

EUT Name: WIFI+BT Module
Model: WXT26M2101B
Brand: GSD
Sample Received Date: June 24, 2021
Sample Status: Normal
Sample ID: 4019009
Date of Tested: June 28, 2021~ July 23, 2021

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

Tested By:

Kebo Zhang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager



2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) 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 ISED (Company No.: 21320) 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. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) 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
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

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

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



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

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



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WIFI+BT Module
Model Name	WXT26M2101B
Radio Technology	IEEE802.11b/g/n HT20/n HT40/ax HE20/ax HE40
Operation frequency	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11ax HE20: 2412MHz—2462MHz IEEE 802.11ax HE40: 2422MHz—2452MHz
Modulation	IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK,BPSK)
Rated Input	DC 3.3 V

5.2. CHANNEL LIST

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

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

**5.3. MAXIMUM OUTPUT POWER**

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	15.62
g	2412 ~ 2462	1-11[11]	15.91
n HT20	2412 ~ 2462	1-11[11]	17.42
n HT40	2422 ~ 2452	3-9[7]	17.36
ax HE20	2412 ~ 2462	1-11[11]	16.67
ax HE40	2422 ~ 2452	3-9[7]	15.60

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
WiFi TX(802.11b)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11g)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11n HT20)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11n HT40)	CH 3, CH 6, CH 9/ Low, Middle, High	2422MHz, 2437MHz, 2452MHz
WiFi TX(802.11ax HE20)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11ax HE40)	CH 3, CH 6, CH 9/ Low, Middle, High	2422MHz, 2437MHz, 2452MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		QA Tool					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	17.5	17.5	17.5	/		
	2	17.5	17.5	17.5			
802.11g	1	17.5	17.5	16.5			
	2	17.5	17.5	16.5			
802.11n HT20	1	15	15	15			
	2	15	15	15			
802.11n HT40	1	/			15	15	14
	2	/			15	15	15
802.11ax HE20	1	13	13	13	/		
	2	13	13	13			
802.11ax HE40	1	/			13	13	13
	2	/			13	13	13

5.6. THE WORSE CASE CONFIGURATIONS

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

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

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

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

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

802.11ax HE20 mode: MCS0

802.11ax HE40 mode: MCS0

802.11b/g only support SISO mode.

802.11 n HT20/HT40/ax HE20/HE40 support SISO and MIMO mode.

802.11a SISO mode, Antenna 0 and Antenna 1 has the same power setting, so only Antenna 0 worst case test data were recorded in the report.

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 0 and Core 1 correspond to antenna 0 and antenna 1 respectively.

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 AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
0	2412-2462	PIFA	2
1	2412-2462	PIFA	2

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= $G_{ANT} + \text{Array Gain} = 2 \text{ dBi}$

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= $G_{ANT} + \text{Array Gain} = 5 \text{ dBi}$

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 $N_{SS} = 1$

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
Note: 1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)		

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

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	XIAOXIN 5000	/
2	UART	/	/	/
3	AC Adapter	Lenovo	ADLX65YCC3D	Input: 100-240 Vac, 50/60 Hz Output: 20 Vdc, 3.25A

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	N/A	N/A	1	N/A

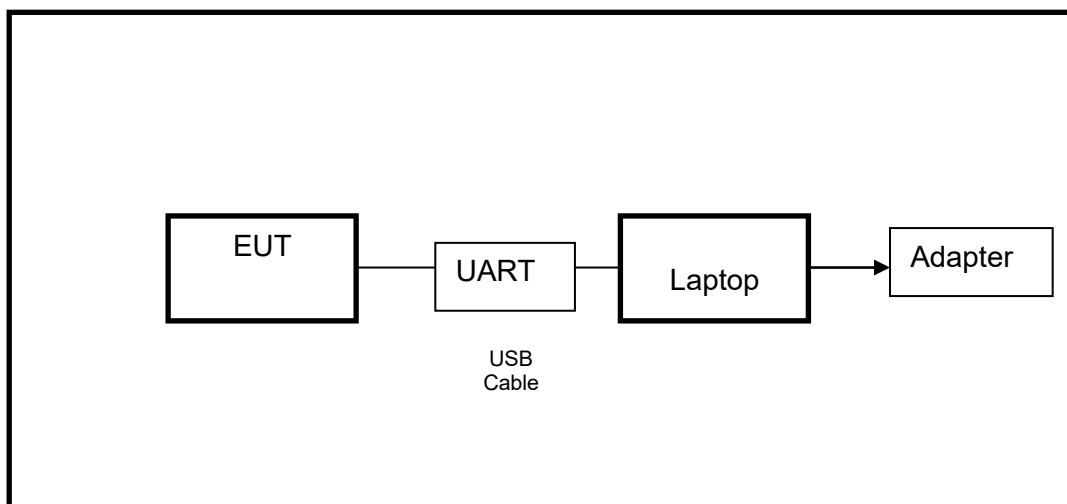
ACCESSORIES

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

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



Note: AC adapter only use for AC POWER LINE CONDUCTED EMISSIONS testing.



6. MEASURING INSTRUMENT AND SOFTWARE USED

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

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021
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	130939	Sept. 17, 2018	Sept. 17, 2021
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021
Preamplifier	TDK	PA-02-2	TRS-307-00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308-00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Nov. 12, 2020	Nov. 11, 2021



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

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

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



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

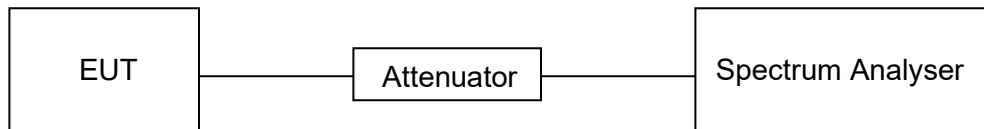
LIMITS

None; for reporting purposes only

PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	67.7%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to appendix G.

7.2. 6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

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

TEST PROCEDURE

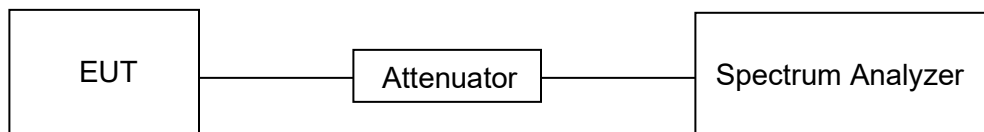
Connect the EUT to the spectrum analyser and use the following settings:

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

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

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



**TEST ENVIRONMENT**

Temperature	23.5°C	Relative Humidity	67.7%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to appendix A & B.



7.3. CONDUCTED OUTPUT POWER

LIMITS

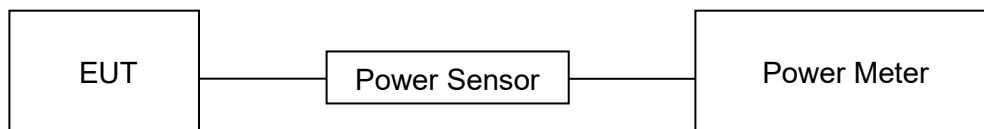
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	67.7%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to appendix C.



7.4. POWER SPECTRAL DENSITY

LIMITS

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

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

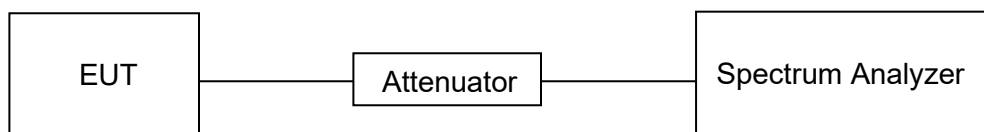
Connect the EUT to the spectrum analyser and use the following settings:

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

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	67.7%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V



RESULTS

Please refer to appendix D.



7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

LIMITS

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

TEST PROCEDURE

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

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

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

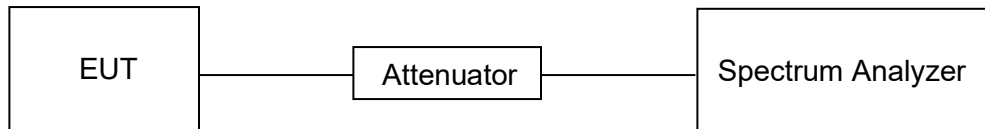
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

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

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

TEST SETUP

**TEST ENVIRONMENT**

Temperature	23.5°C	Relative Humidity	67.7%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to appendix E & F.



8. RADIATED TEST RESULTS

LIMITS

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

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 ^{Note 1}	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.



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

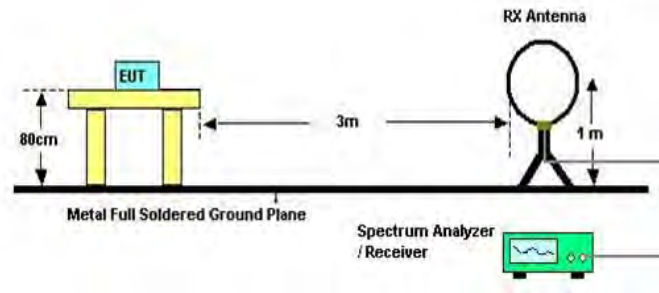
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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	(²)
13.36-13.41			

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

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30 MHz

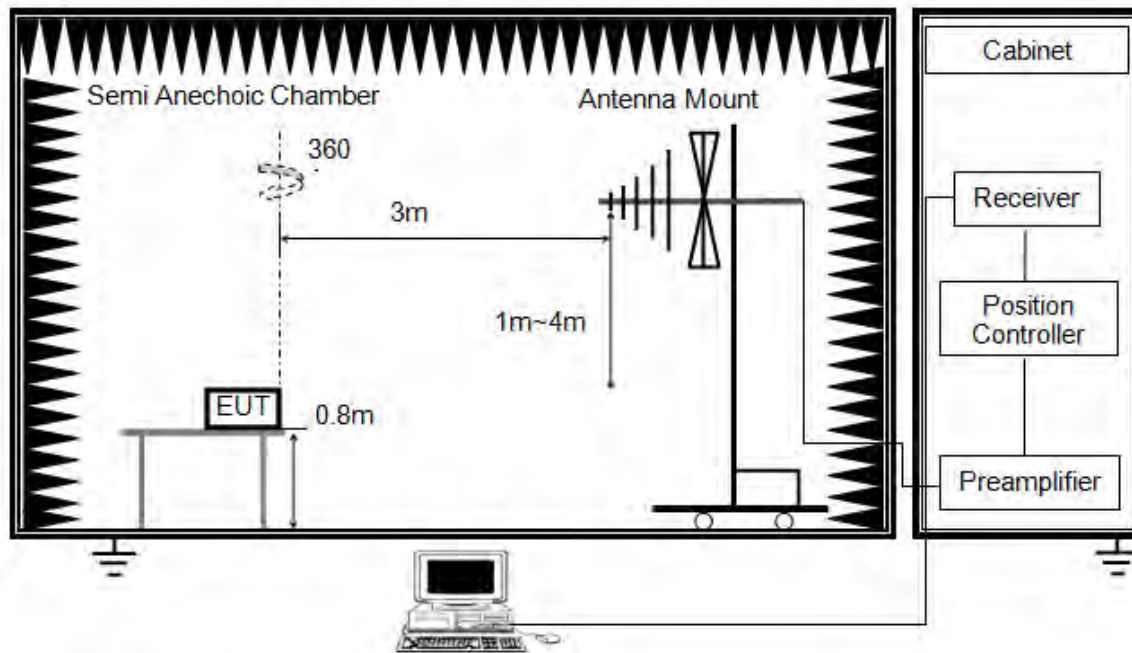


The setting of the spectrum analyser

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

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

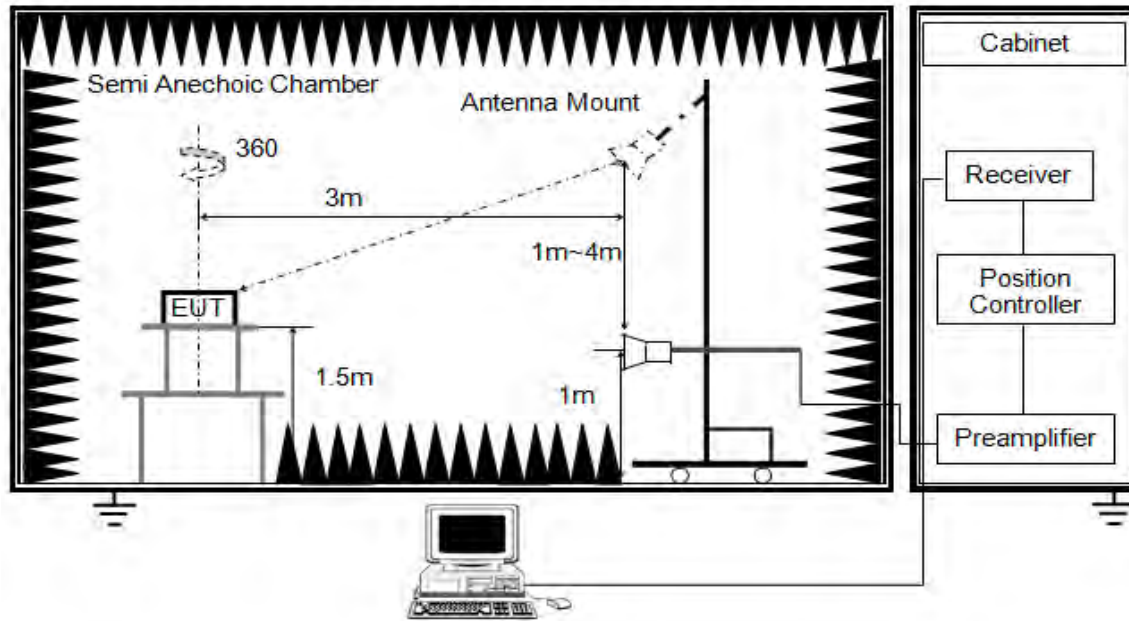


The setting of the spectrum analyser

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

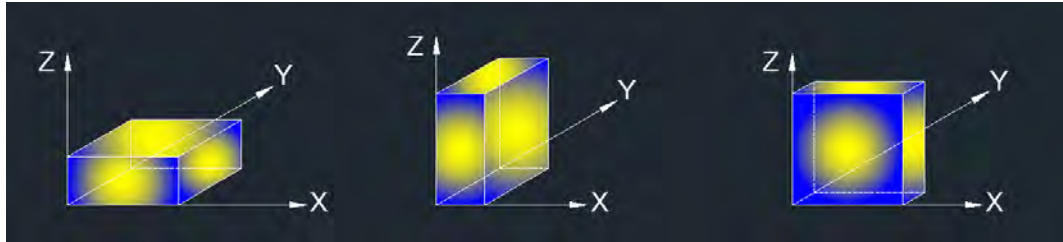


The setting of the spectrum analyser

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

X axis, Y axis, Z axis positions:



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

TEST ENVIRONMENT

Temperature	24.3 °C	Relative Humidity	61 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

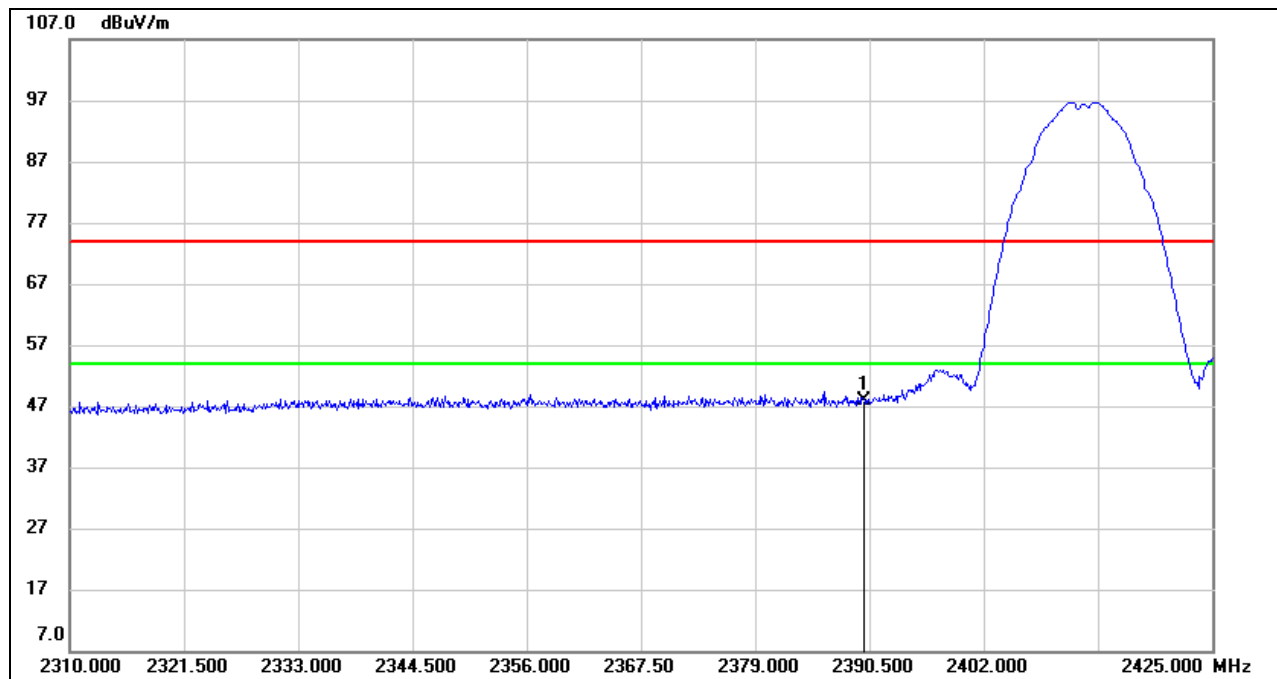
8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b SISO MODE

ANTENNA 0 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

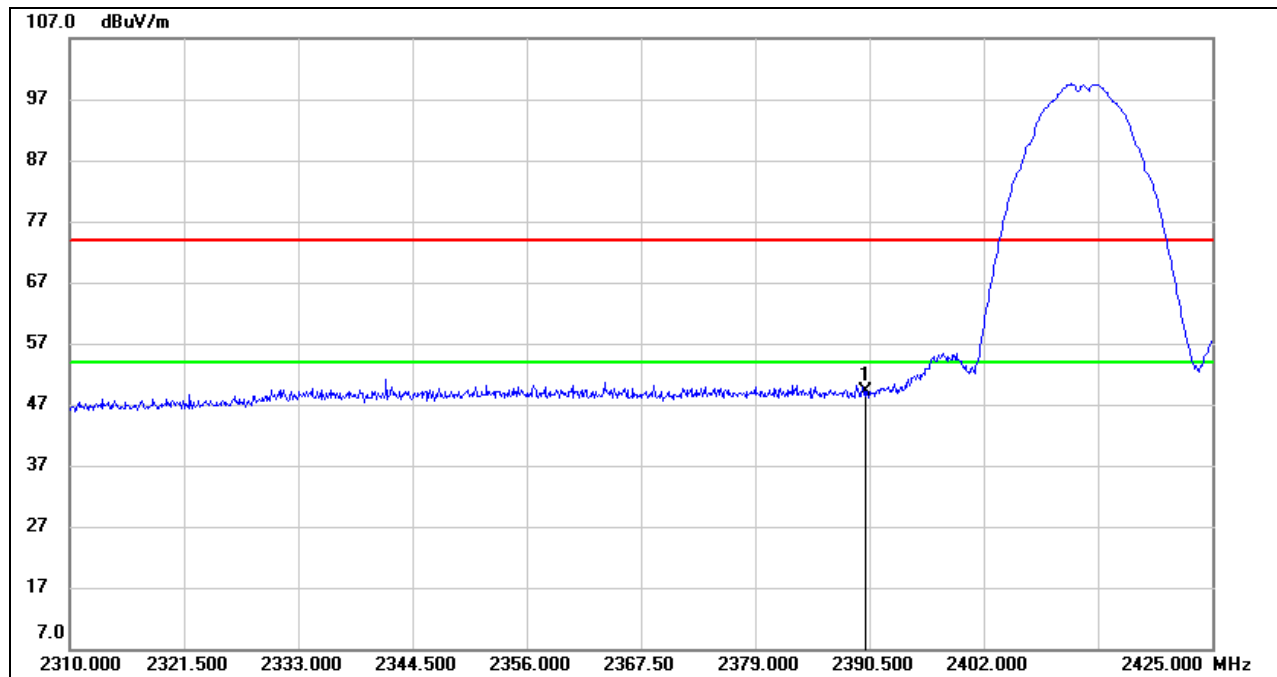


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.57	33.35	47.92	74.00	-26.08	peak

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

2. Peak: Peak detector.

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

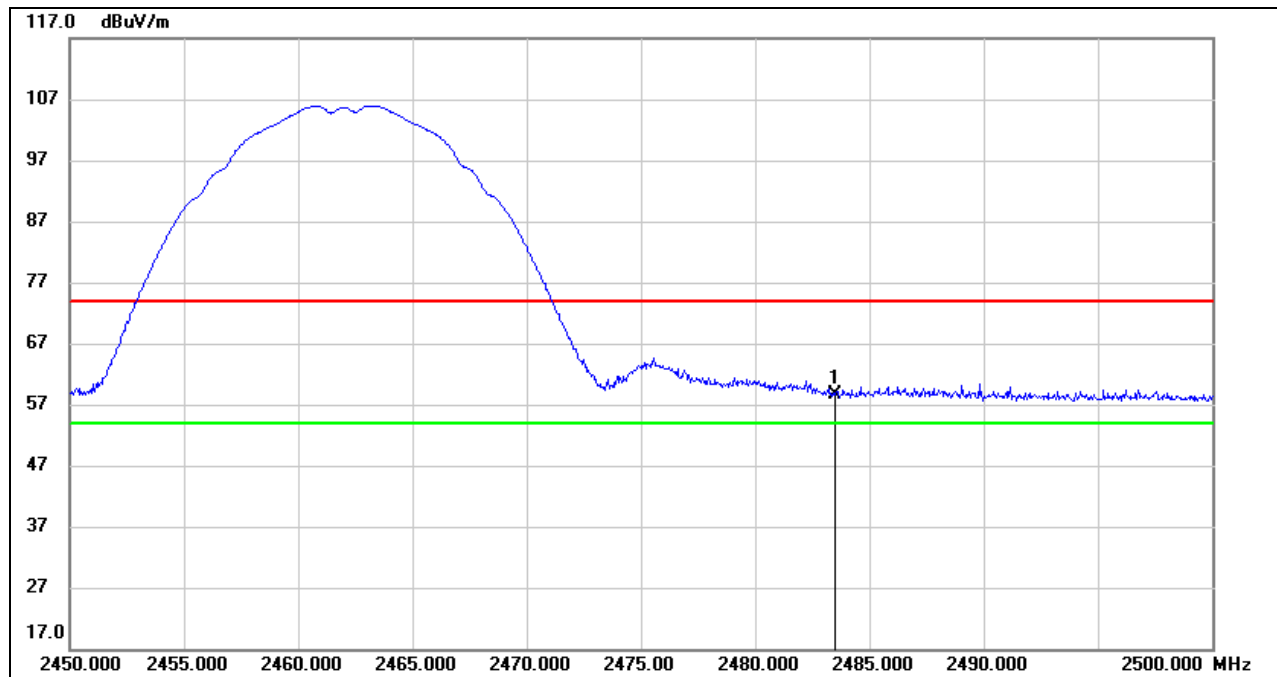
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	15.73	33.35	49.08	74.00	-24.92	peak

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

2. Peak: Peak detector.

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

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

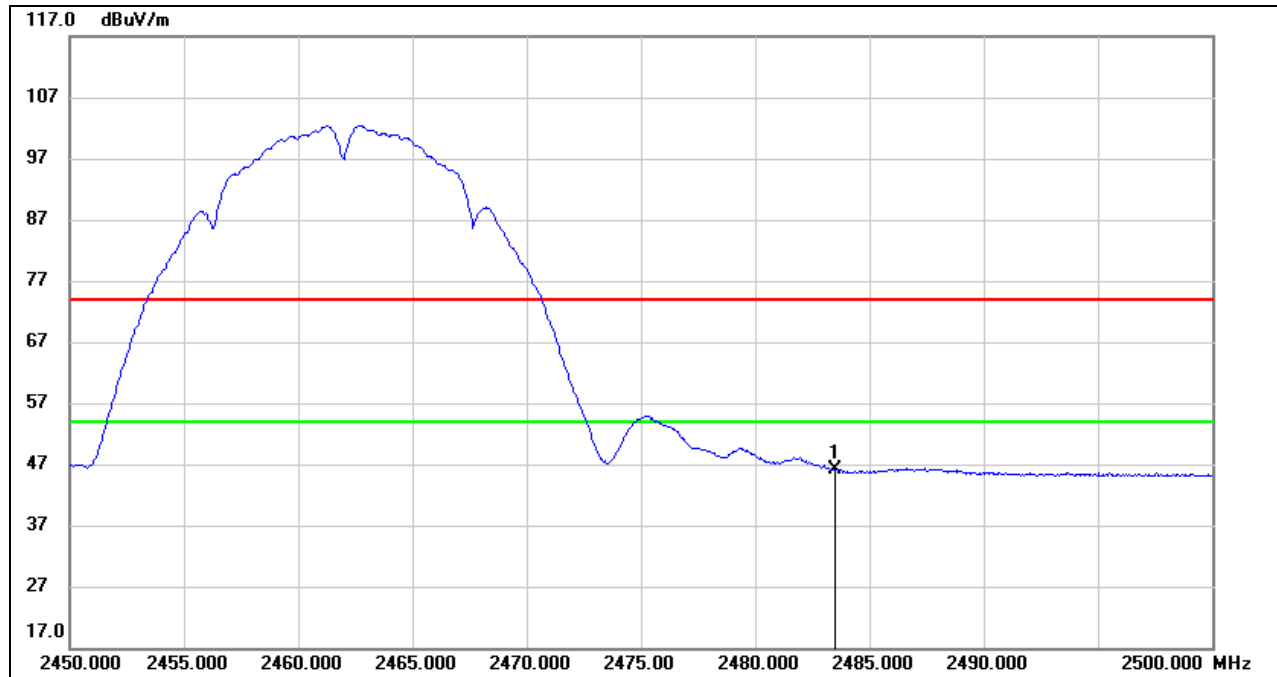
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	25.04	33.71	58.75	74.00	-15.25	peak

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

2. Peak: Peak detector.

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

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.42	33.71	46.13	54.00	-7.87	AVG

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

2. Peak: Peak detector.

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

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

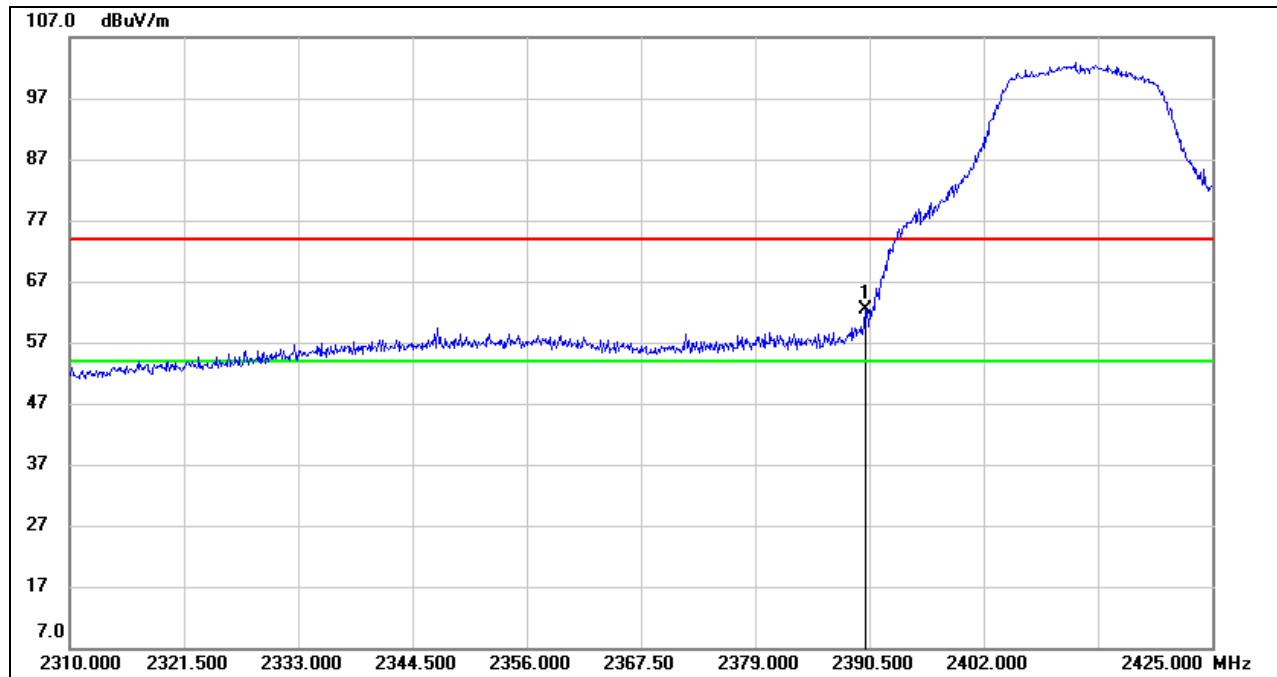
Note: Both antennas have been tested, only the worst data was recorded in the report.

8.1.2. 802.11g SISO MODE

ANTENNA 0 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

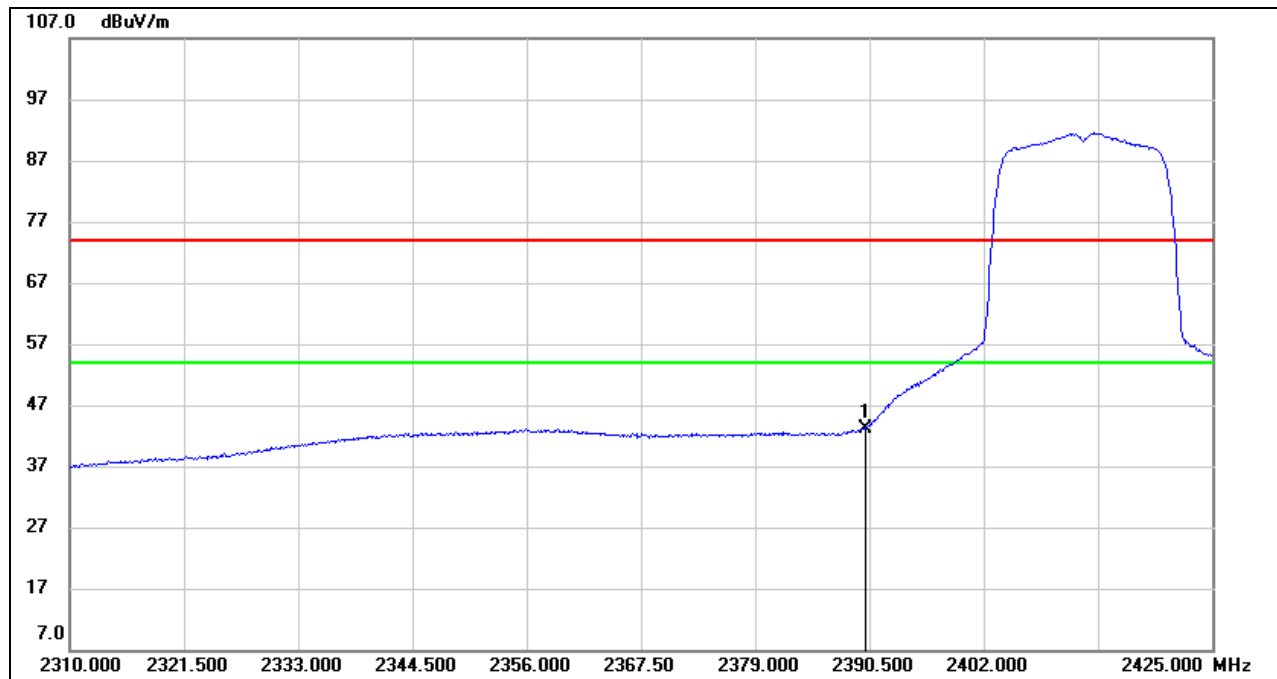


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.92	33.35	62.27	74.00	-11.73	peak

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

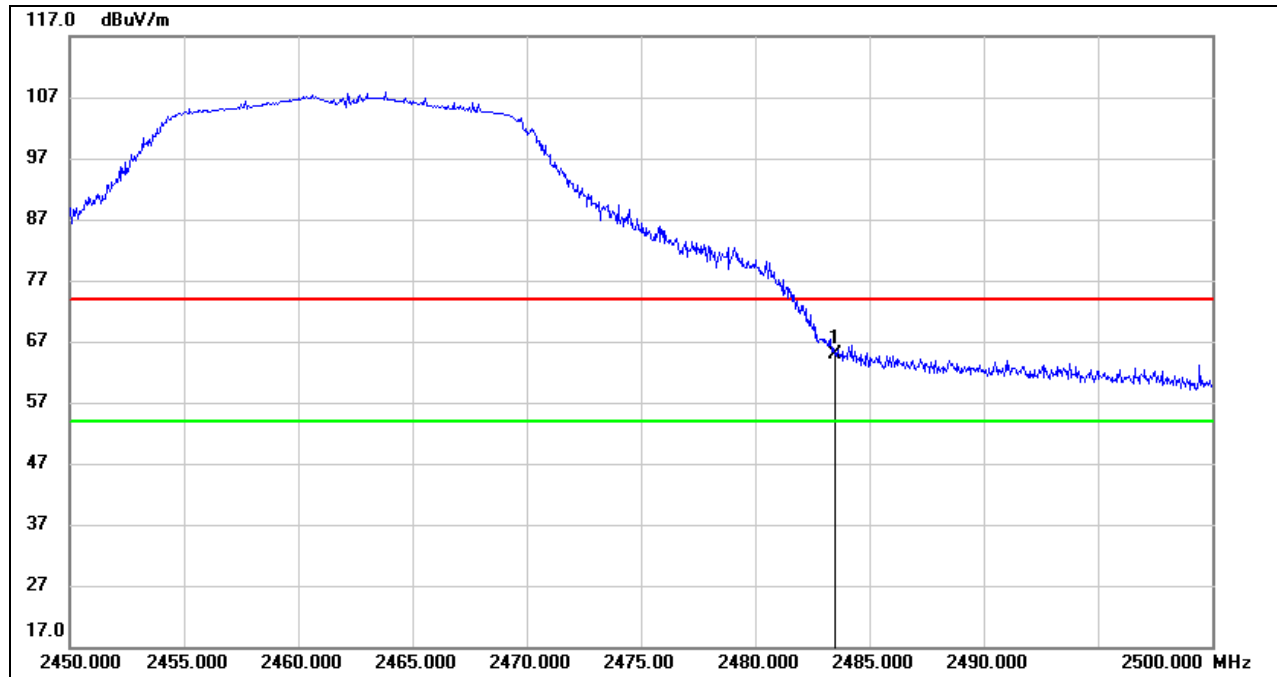
2. Peak: Peak detector.

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

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	9.90	33.35	43.25	54.00	-10.75	AVG

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

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

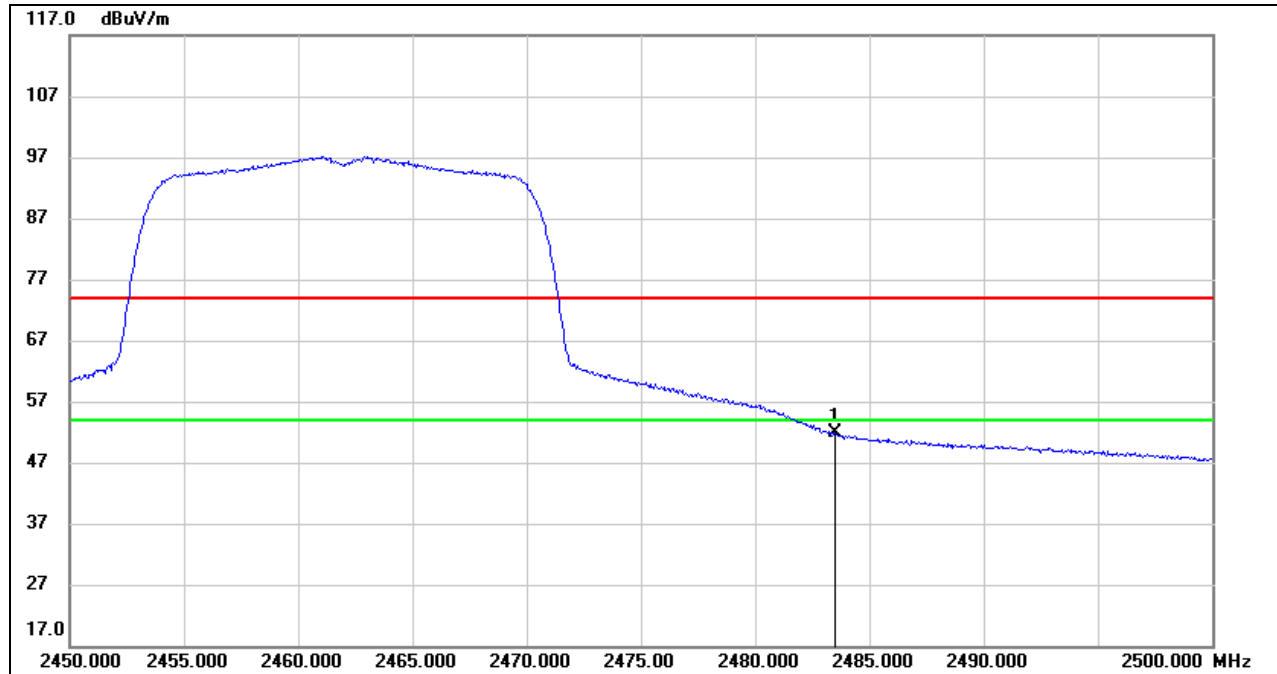
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.08	33.71	64.79	74.00	-9.21	peak

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

2. Peak: Peak detector.

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

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.06	33.71	51.77	54.00	-2.23	AVG

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

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

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

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

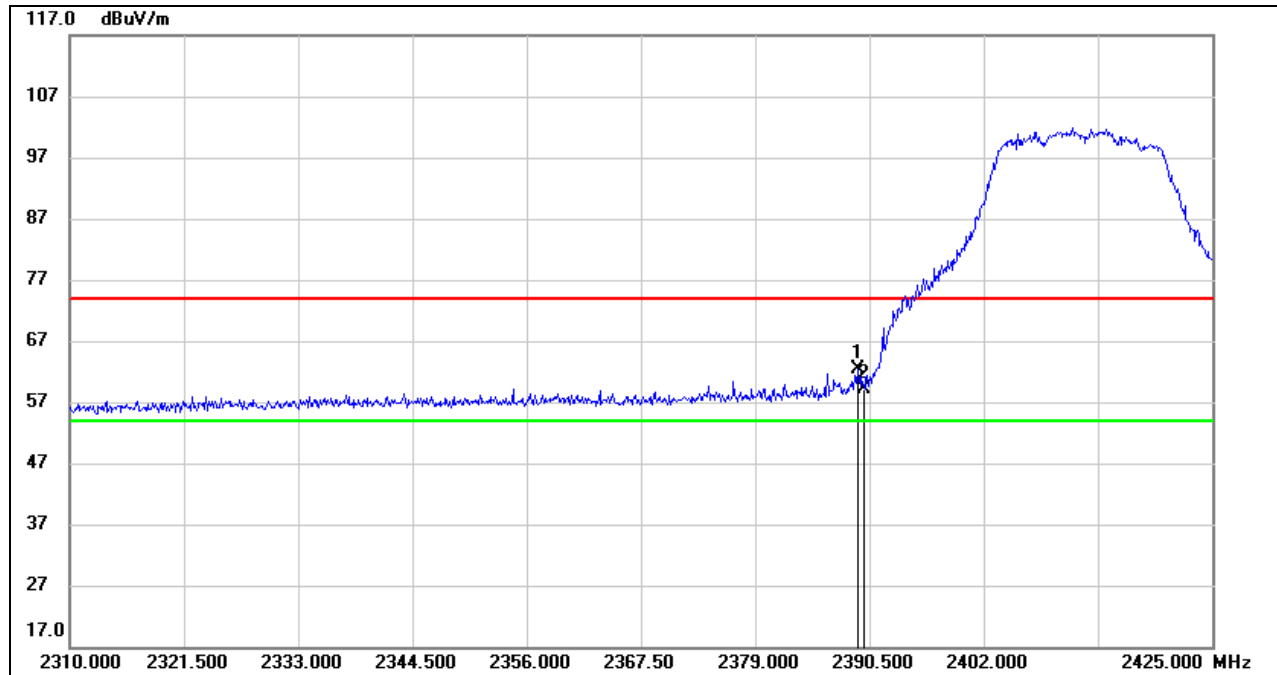
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

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

8.1.3. 802.11n HT20 MIMO MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

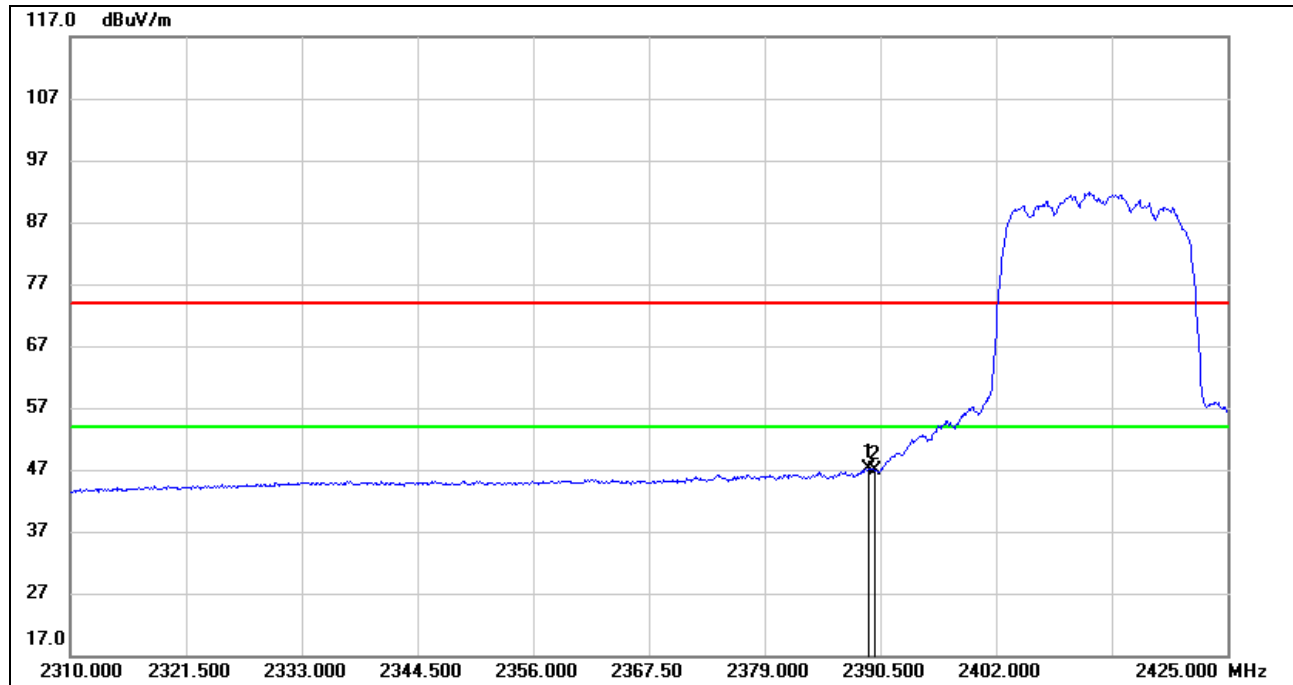


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.350	29.10	33.35	62.45	74.00	-11.55	peak
2	2390.000	25.67	33.35	59.02	74.00	-14.98	peak

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

2. Peak: Peak detector.

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

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.350	13.73	33.35	47.08	54.00	-6.92	AVG
2	2390.000	13.51	33.35	46.86	54.00	-7.14	AVG

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

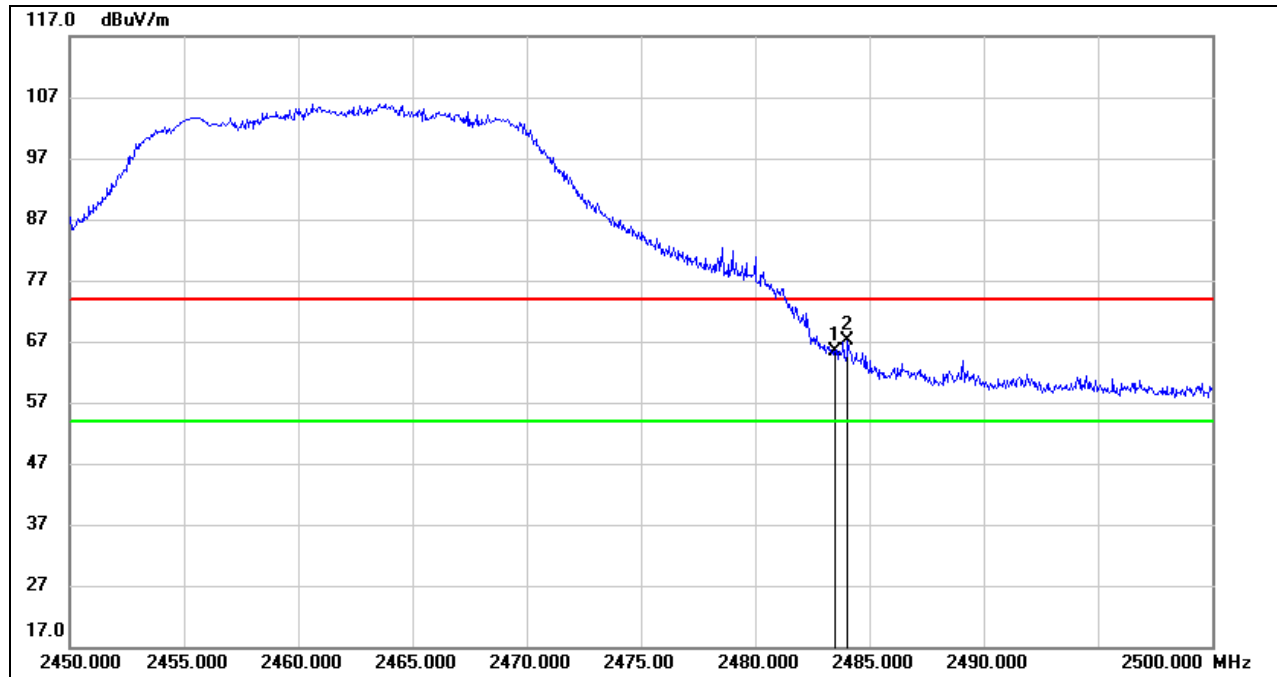
2. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.

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

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

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



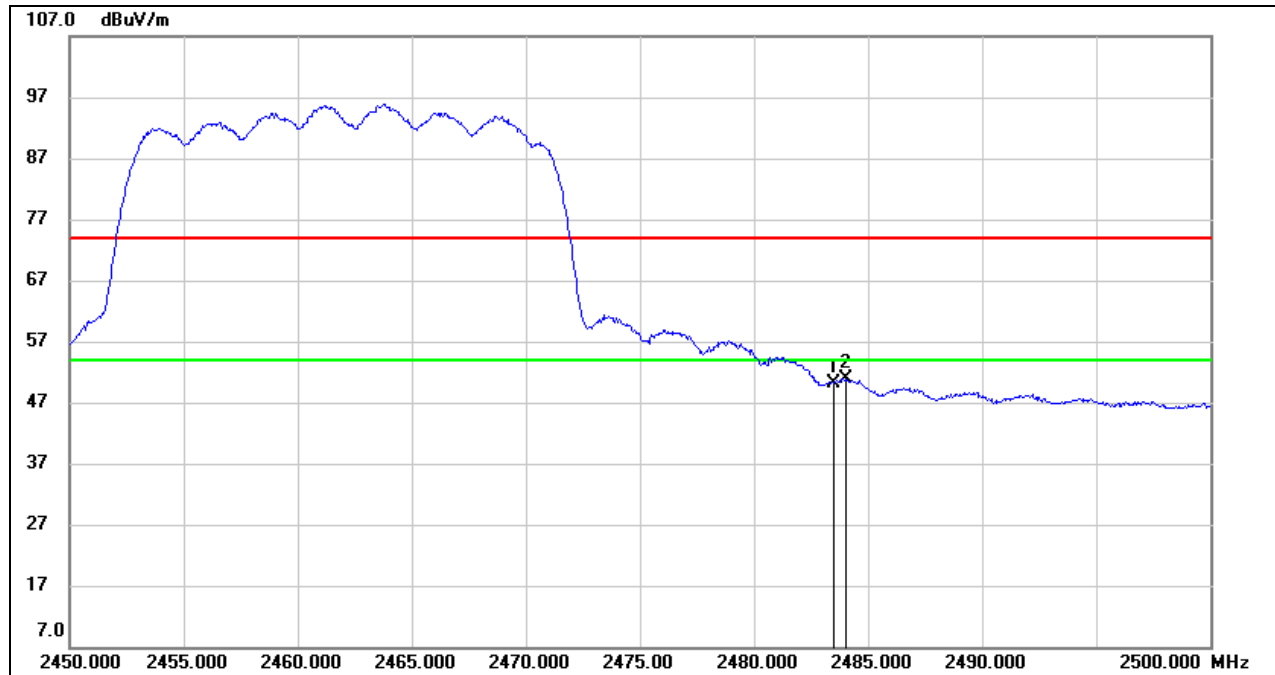
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.56	33.71	65.27	74.00	-8.73	peak
2	2484.050	33.45	33.71	67.16	74.00	-6.84	peak

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

2. Peak: Peak detector.

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

AVG

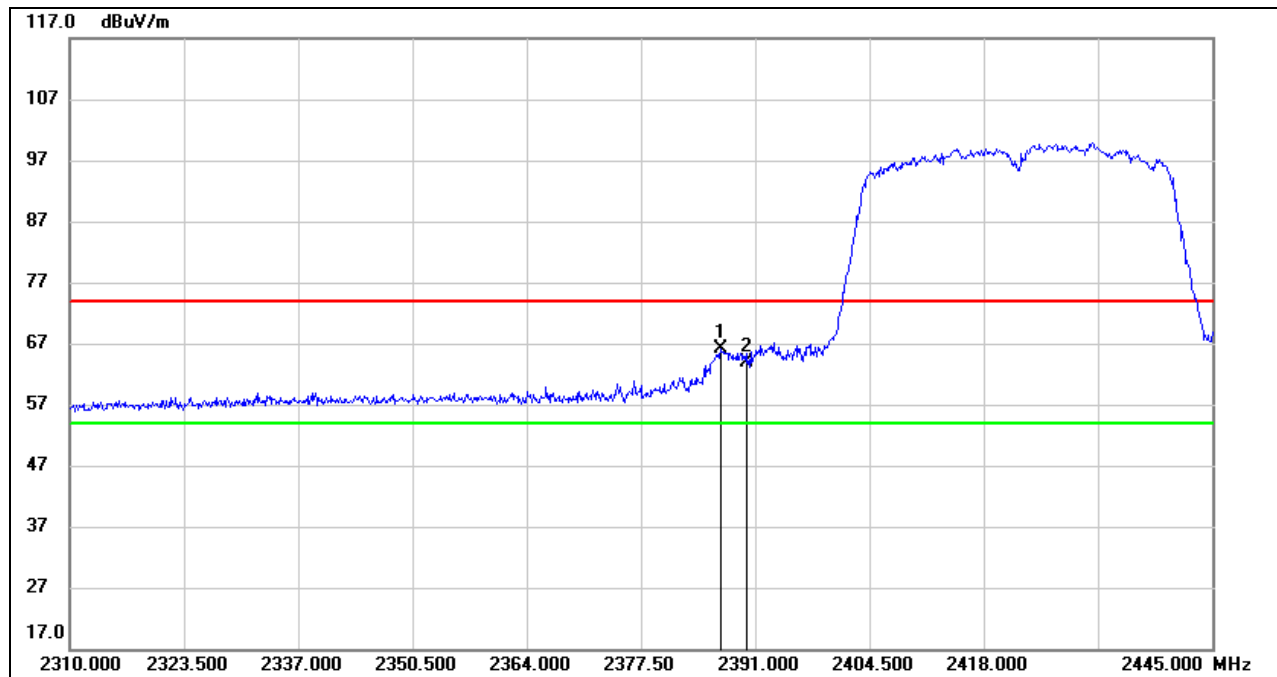


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.48	33.71	50.19	54.00	-3.81	AVG
2	2484.050	17.13	33.71	50.84	54.00	-3.16	AVG

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

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

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

**8.1.4. 802.11n HT40 MIMO MODE****RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)****PEAK**

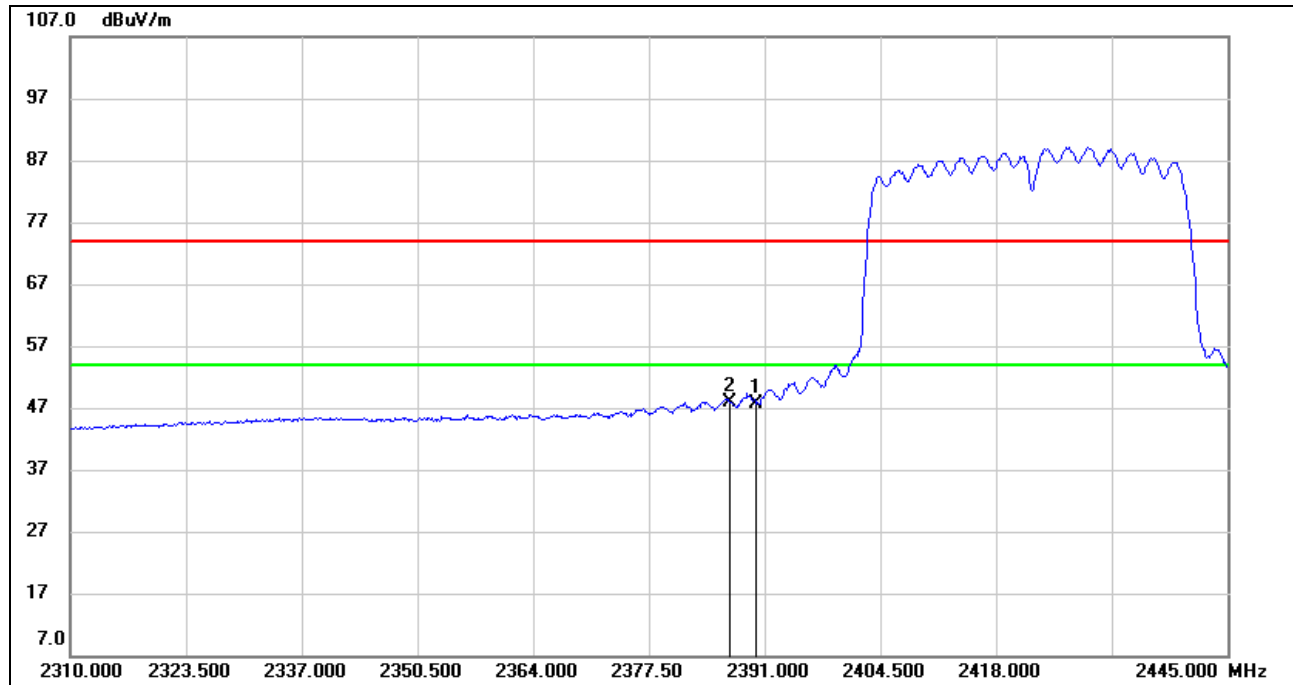
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.950	32.75	33.33	66.08	74.00	-7.92	peak
2	2390.000	30.53	33.35	63.88	74.00	-10.12	peak

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

2. Peak: Peak detector.

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

AVG



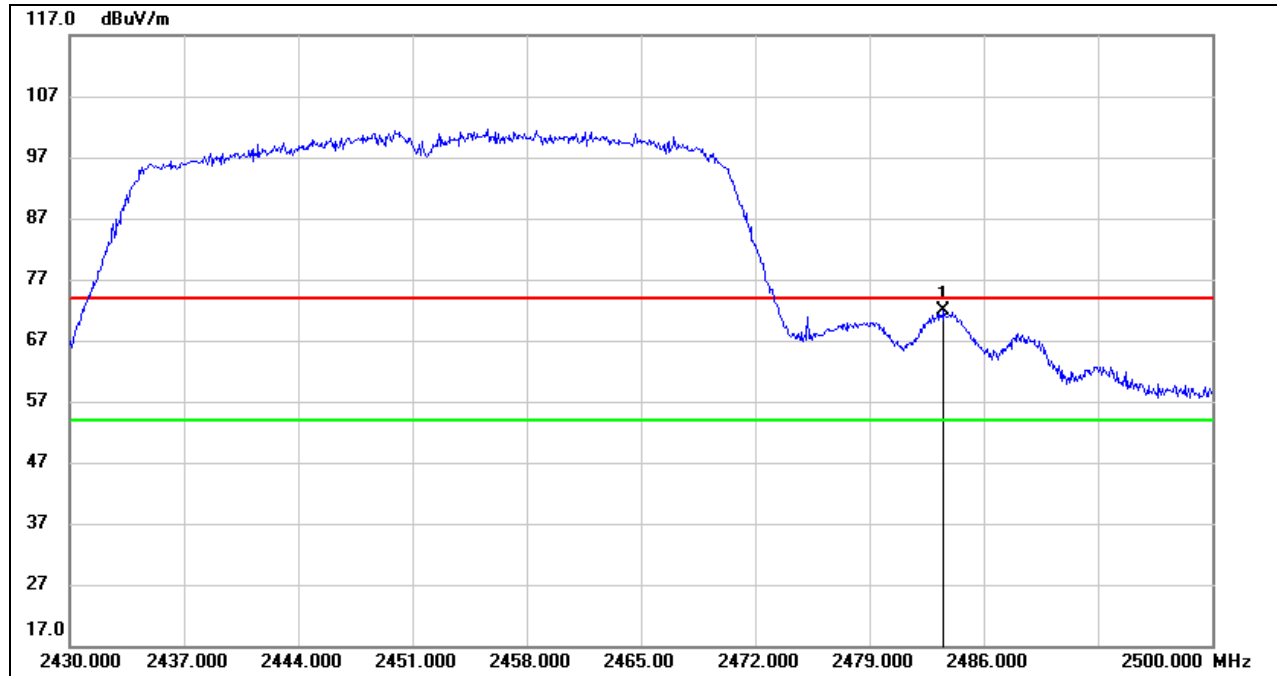
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.23	33.35	47.58	54.00	-6.42	AVG
2	2386.950	14.62	33.33	47.95	54.00	-6.05	AVG

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

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

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

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

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

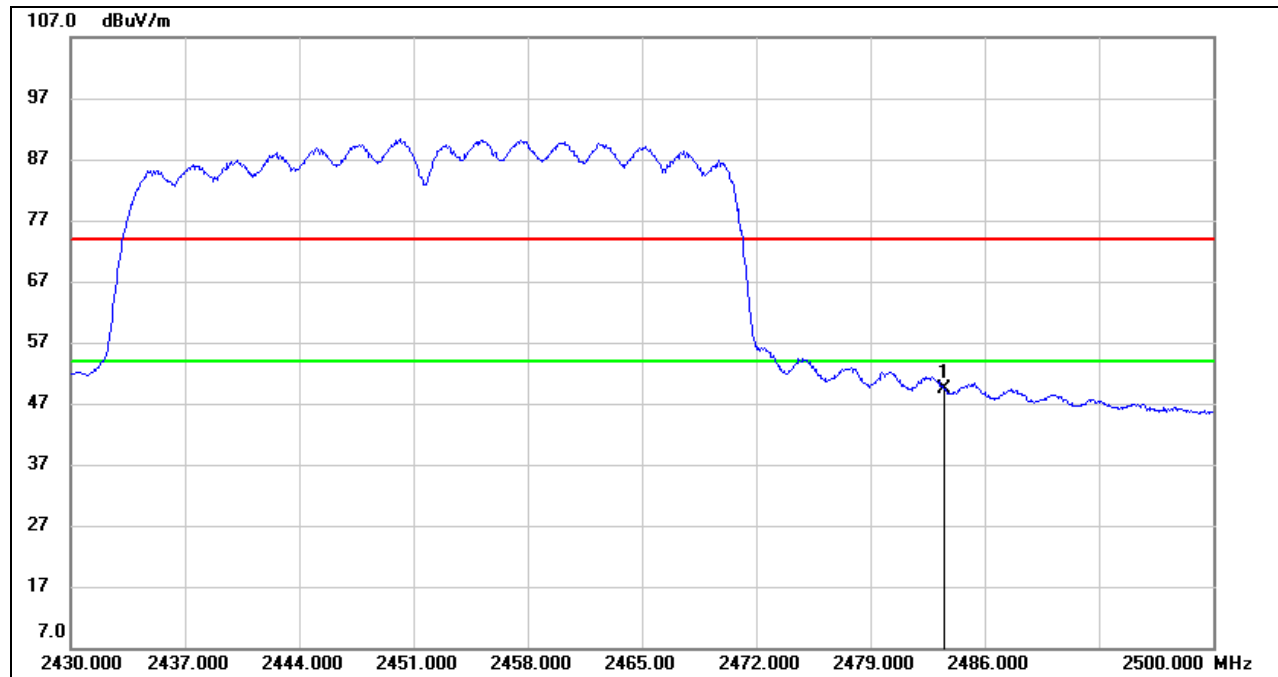
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.14	33.71	71.85	74.00	-2.15	peak

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

2. Peak: Peak detector.

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

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.69	33.71	49.40	54.00	-4.60	AVG

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

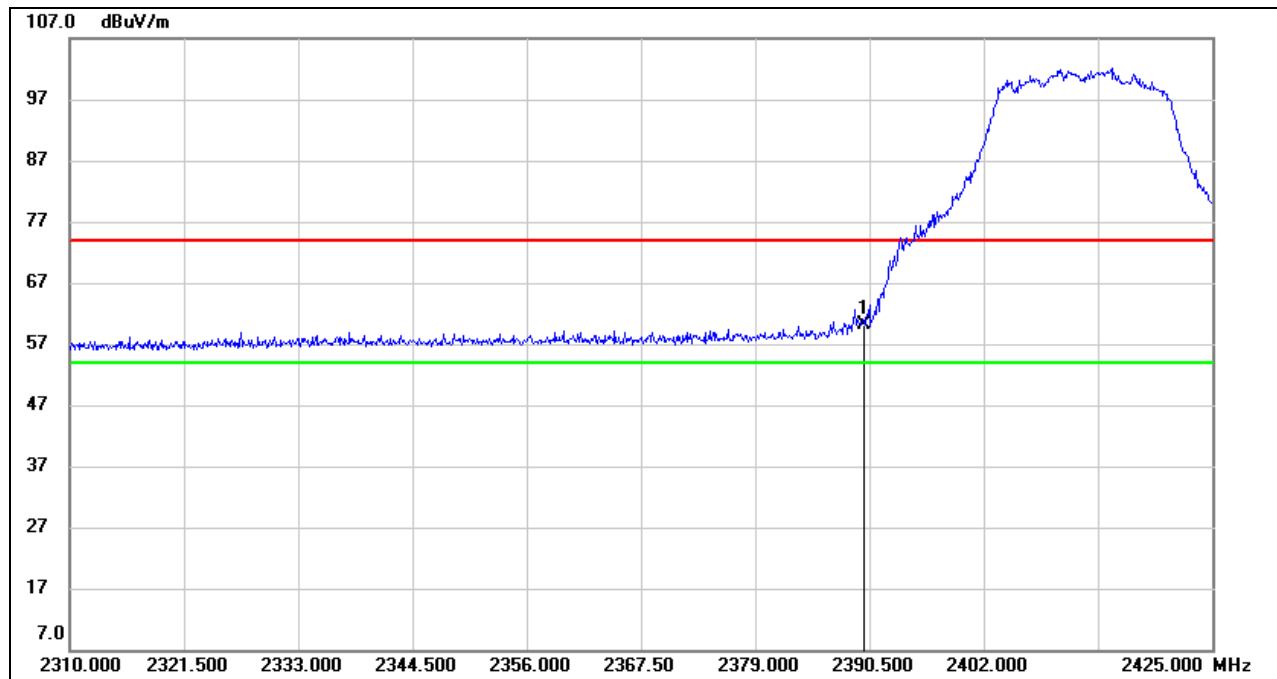
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.

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

8.1.5. 802.11ax HE20 MIMO MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

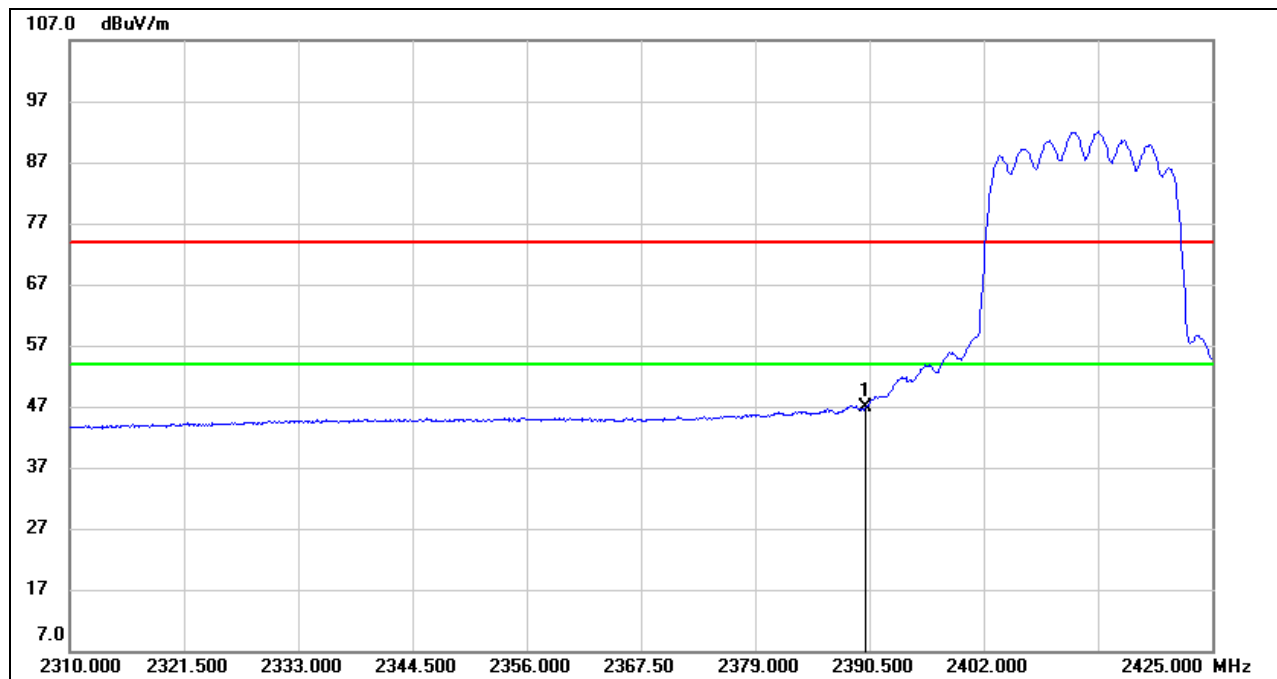


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.73	33.35	60.08	74.00	-13.92	peak

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

2. Peak: Peak detector.

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

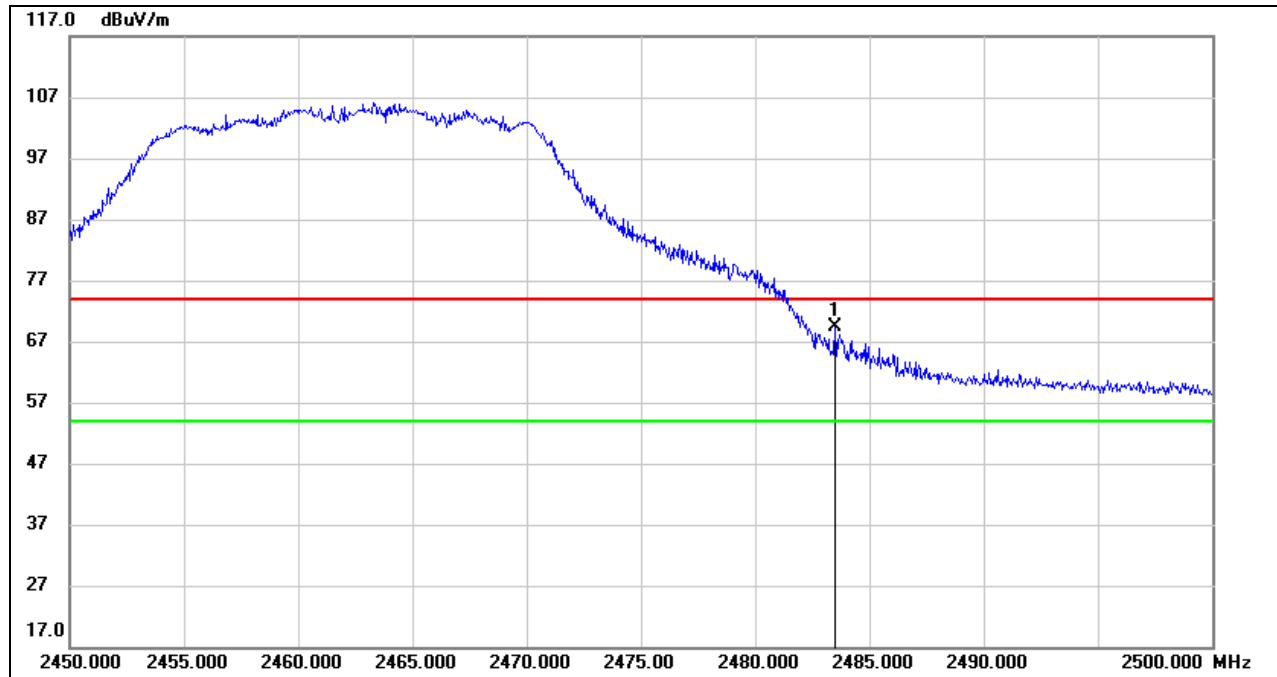
**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	13.58	33.35	46.93	54.00	-7.07	AVG

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

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

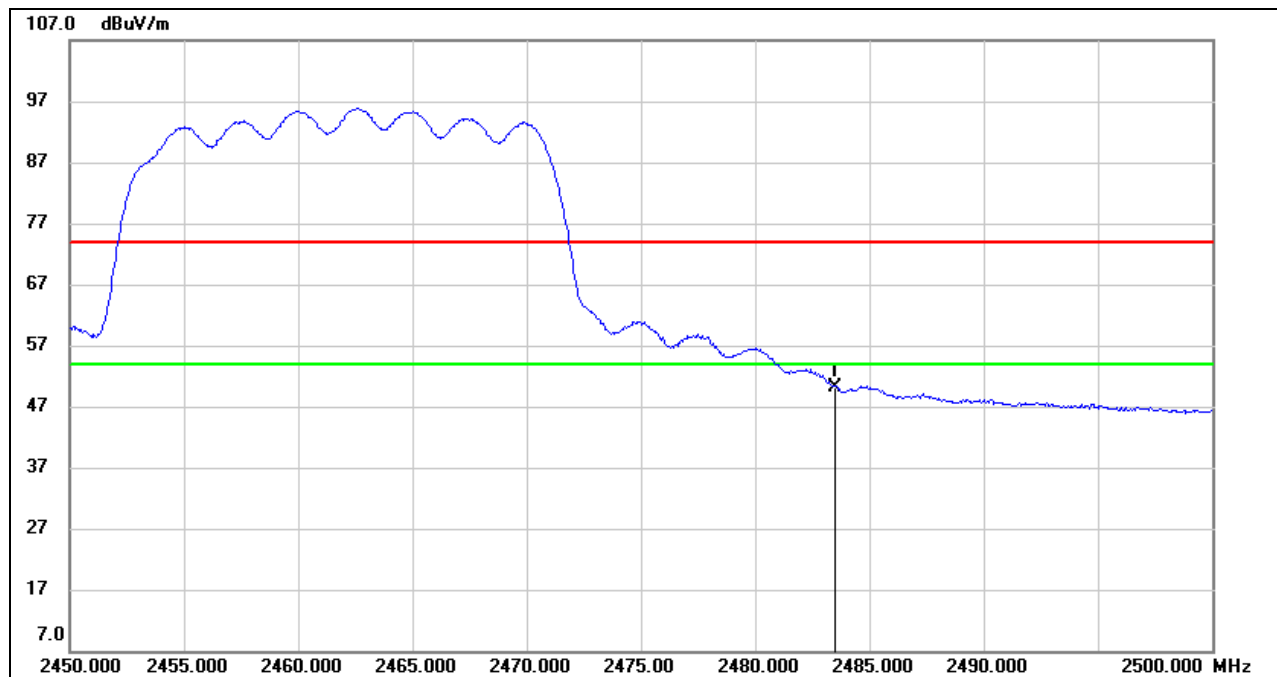


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.73	33.71	69.44	74.00	-4.56	peak

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

2. Peak: Peak detector.

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

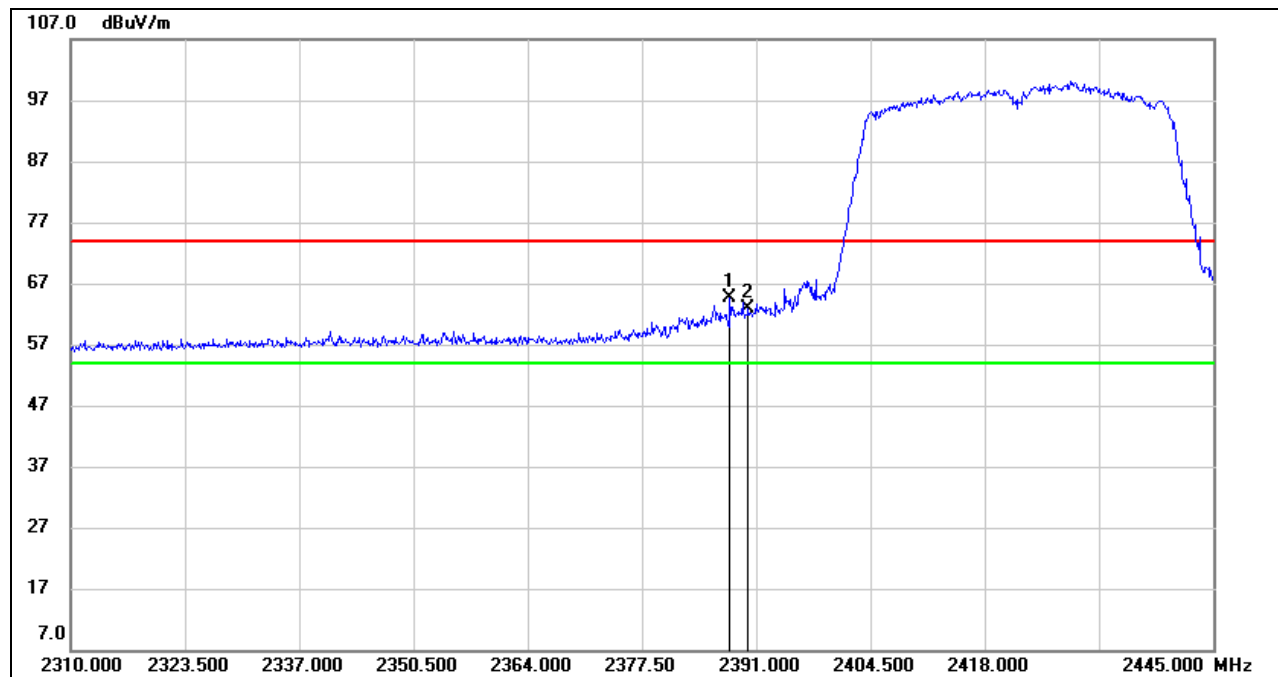
**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.54	33.71	50.25	54.00	-3.75	AVG

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

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

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

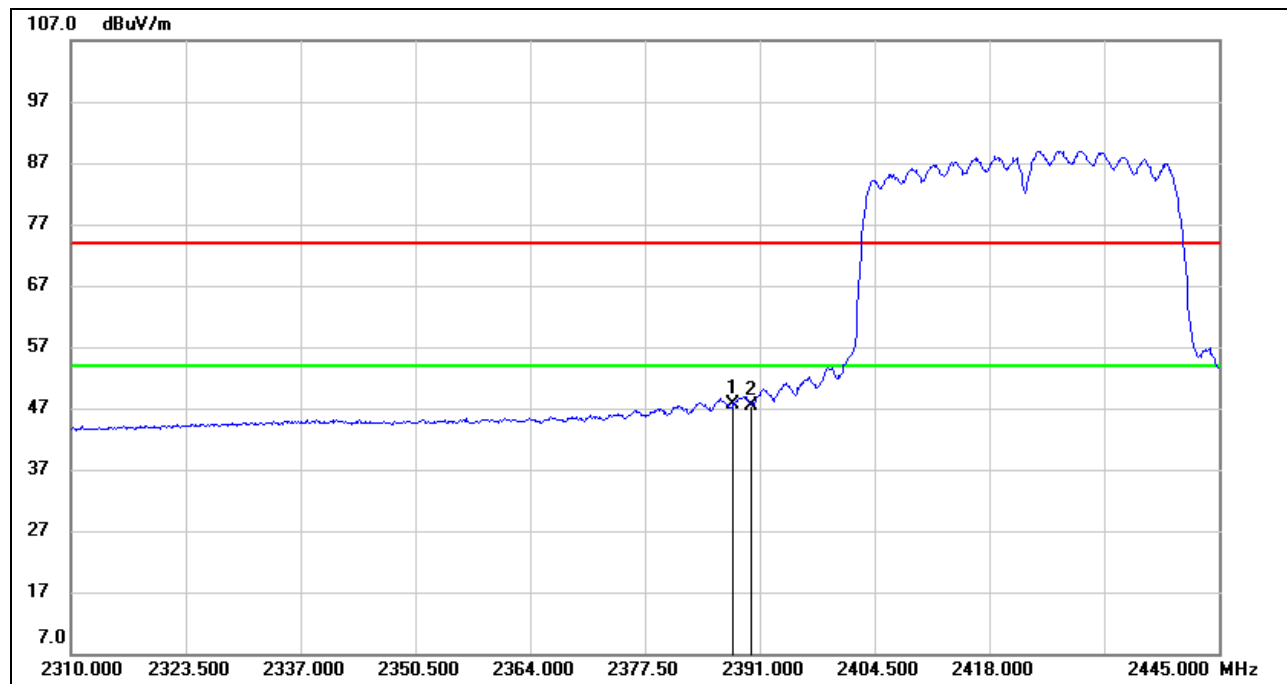
**8.1.6. 802.11ax HE40 MIMO MODE****RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.895	31.20	33.34	64.54	74.00	-9.46	peak
2	2390.000	29.43	33.35	62.78	74.00	-11.22	peak

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

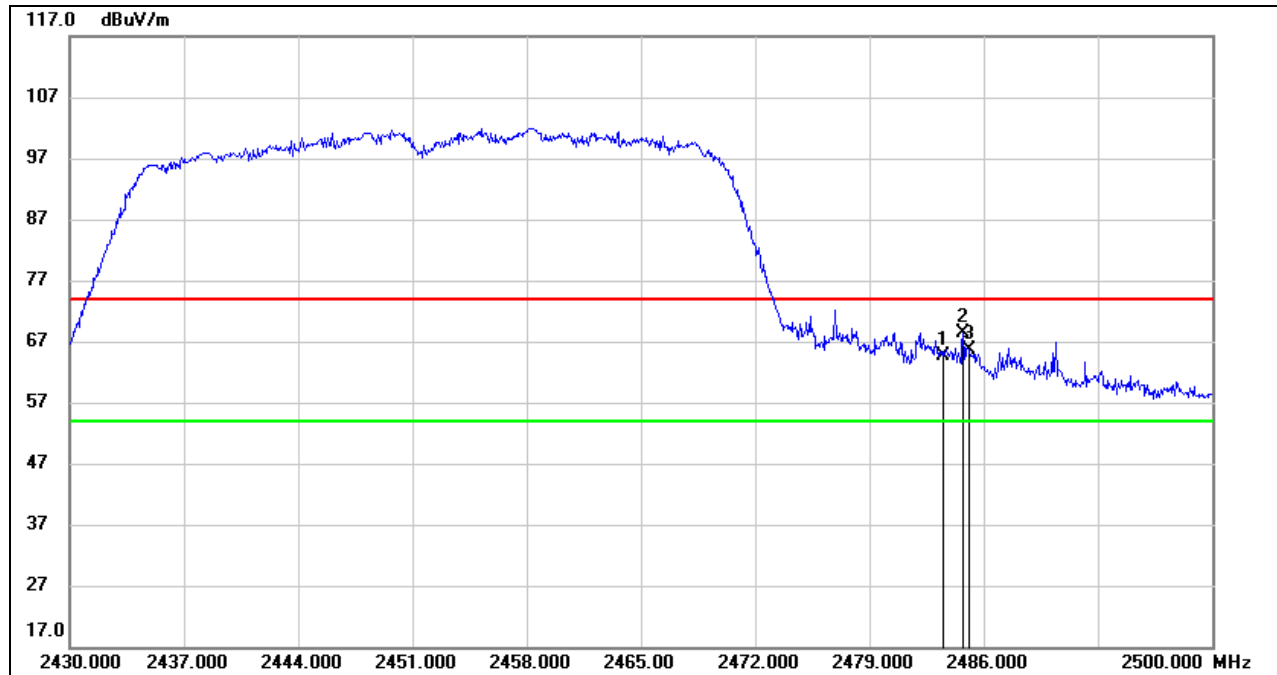
2. Peak: Peak detector.

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

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.895	14.31	33.34	47.65	54.00	-6.35	AVG
2	2390.000	14.15	33.35	47.50	54.00	-6.50	AVG

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

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

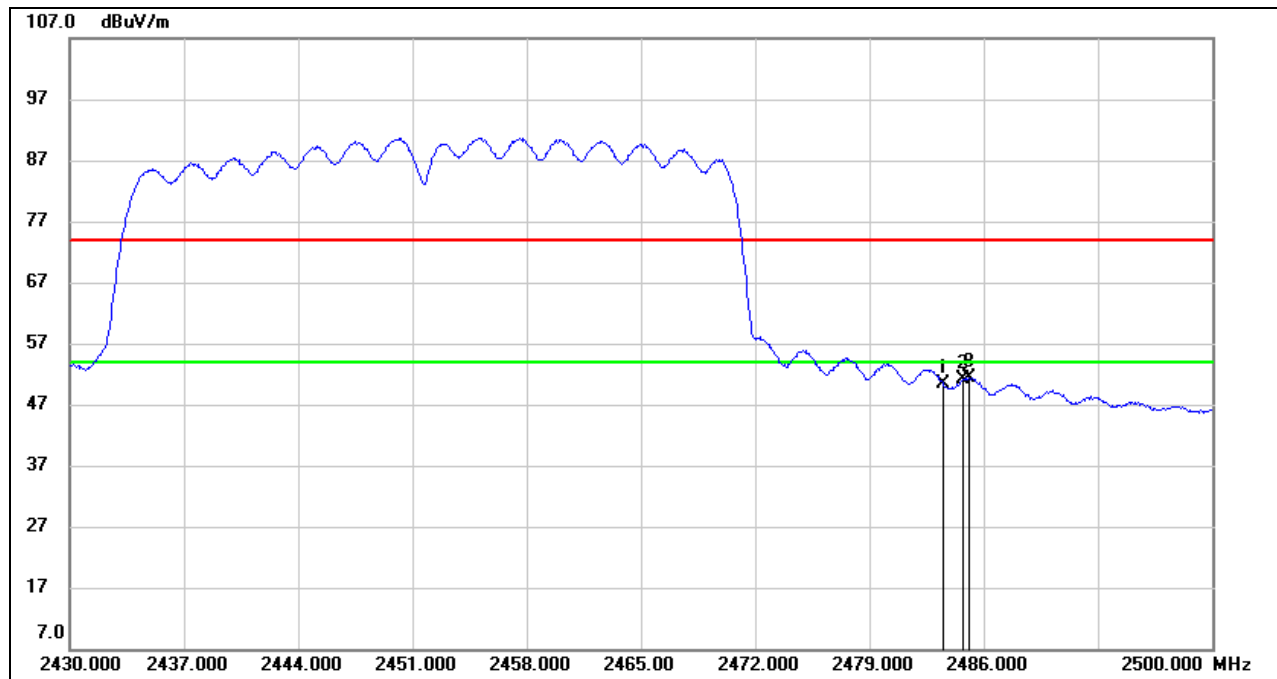
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	30.94	33.71	64.65	74.00	-9.35	peak
2	2484.740	34.67	33.71	68.38	74.00	-5.62	peak
3	2485.090	32.03	33.71	65.74	74.00	-8.26	peak

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

2. Peak: Peak detector.

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

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.71	33.71	50.42	54.00	-3.58	AVG
2	2484.740	17.30	33.71	51.01	54.00	-2.99	AVG
3	2485.090	17.64	33.71	51.35	54.00	-2.65	AVG

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

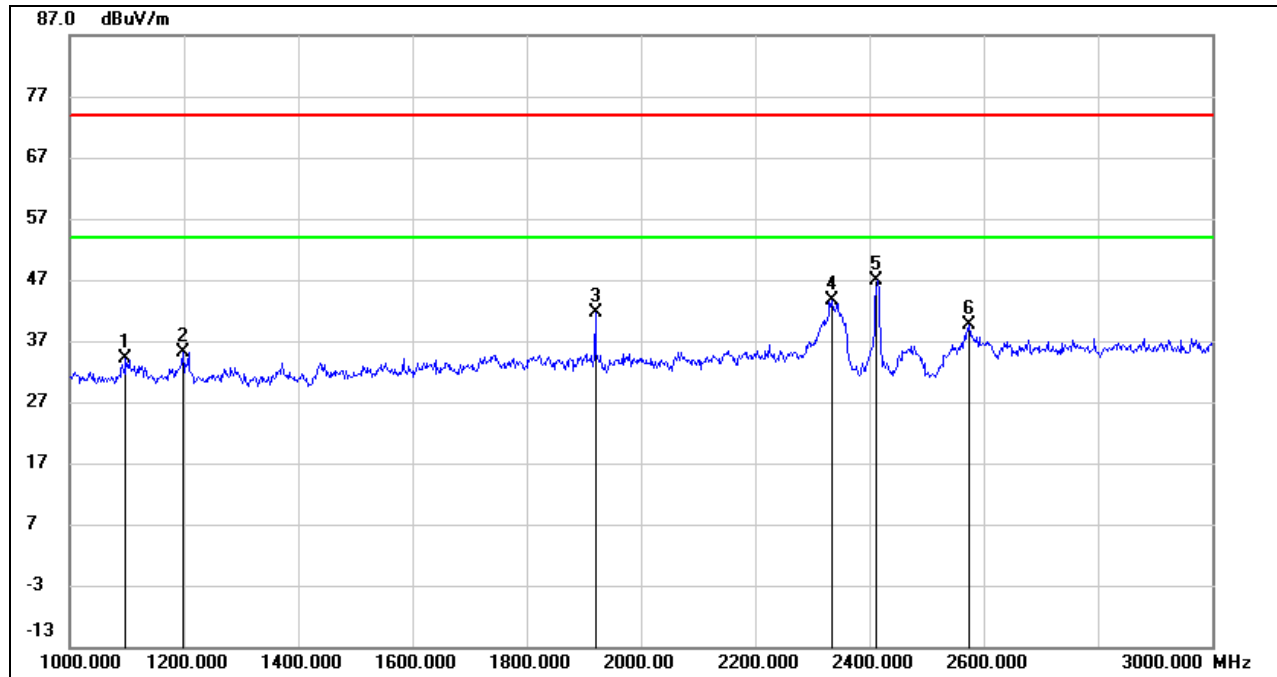
Note: Horizontal and Vertical have been tested, only the worst data was recorded in the report.
Note: All modes have been tested, only the worst data was recorded in the report.

8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

8.2.1. 802.11b SISO MODE

ANTENNA 0 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	1098.000	47.54	-13.49	34.05	74.00	-39.95	peak
2	1198.000	48.15	-13.00	35.15	74.00	-38.85	peak
3	1920.000	51.67	-10.13	41.54	74.00	-32.46	peak
4	2334.000	52.12	-8.61	43.51	74.00	-30.49	peak
5	2412.000	55.22	-8.37	46.85	/	/	Fundamental
6	2574.000	47.69	-7.95	39.74	74.00	-34.26	peak

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

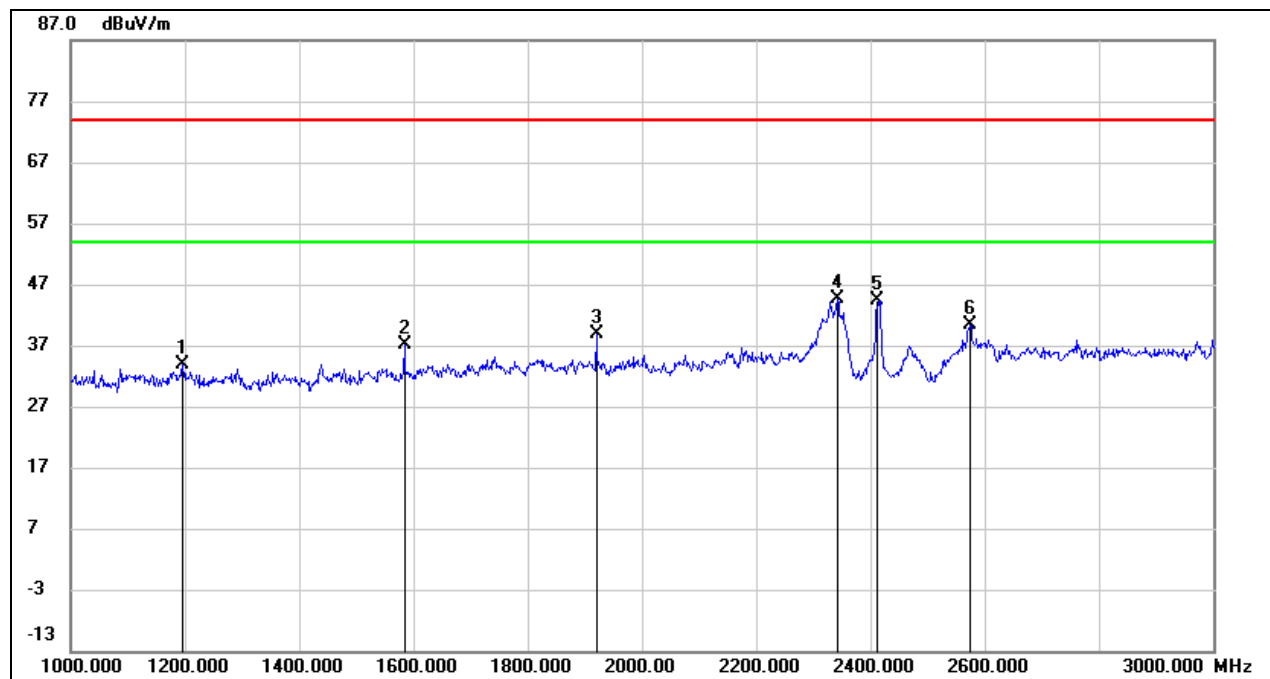
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.000	46.91	-13.01	33.90	74.00	-40.10	peak
2	1584.000	48.82	-11.66	37.16	74.00	-36.84	peak
3	1920.000	48.99	-10.13	38.86	74.00	-35.14	peak
4	2342.000	53.20	-8.58	44.62	74.00	-29.38	peak
5	2412.000	52.67	-8.37	44.30	/	/	Fundamental
6	2574.000	48.24	-7.95	40.29	74.00	-33.71	peak

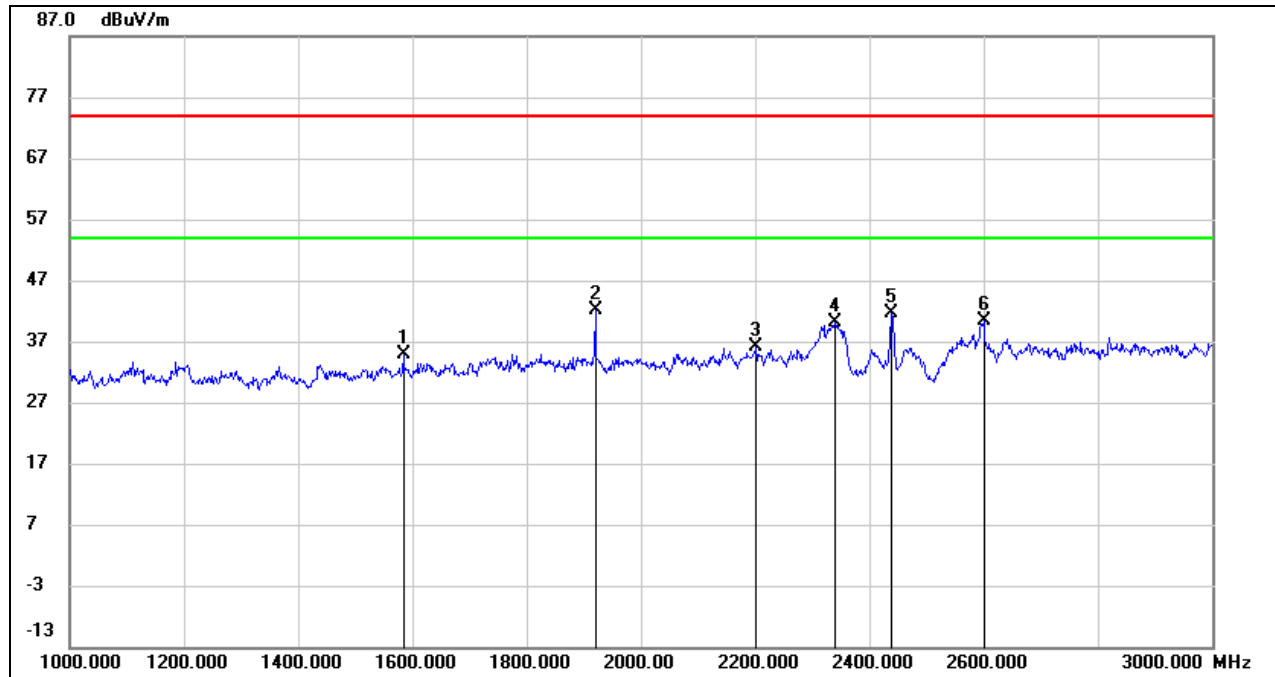
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1584.000	46.44	-11.66	34.78	74.00	-39.22	peak
2	1920.000	52.18	-10.13	42.05	74.00	-31.95	peak
3	2202.000	45.13	-9.05	36.08	74.00	-37.92	peak
4	2340.000	48.61	-8.59	40.02	74.00	-33.98	peak
5	2437.000	49.93	-8.33	41.60	/	/	Fundamental
6	2600.000	48.19	-7.86	40.33	74.00	-33.67	peak

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

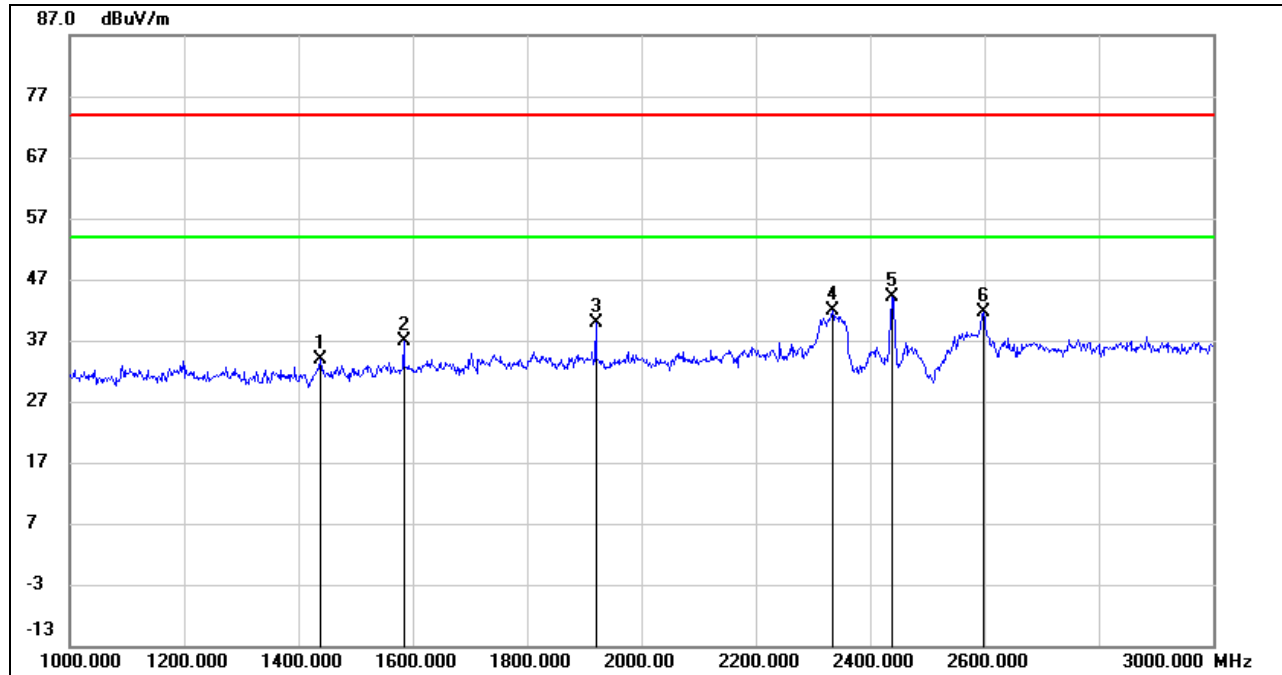
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1438.000	46.36	-12.52	33.84	74.00	-40.16	peak
2	1584.000	48.48	-11.66	36.82	74.00	-37.18	peak
3	1920.000	50.10	-10.13	39.97	74.00	-34.03	peak
4	2334.000	50.39	-8.61	41.78	74.00	-32.22	peak
5	2437.000	52.41	-8.33	44.08	/	/	Fundamental
6	2598.000	49.44	-7.88	41.56	74.00	-32.44	peak

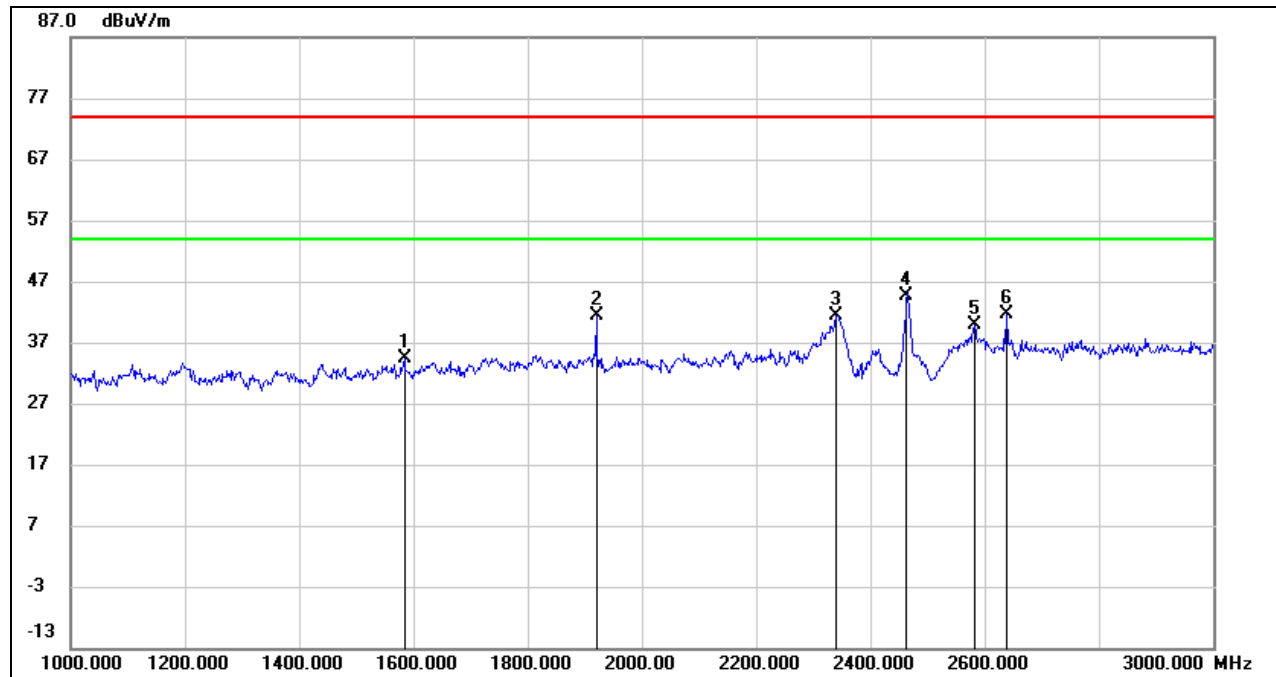
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1584.000	45.99	-11.66	34.33	74.00	-39.67	peak
2	1920.000	51.55	-10.13	41.42	74.00	-32.58	peak
3	2340.000	50.01	-8.59	41.42	74.00	-32.58	peak
4	2462.000	52.99	-8.29	44.70	/	/	Fundamental
5	2582.000	47.70	-7.92	39.78	74.00	-34.22	peak
6	2638.000	49.12	-7.61	41.51	74.00	-32.49	peak

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

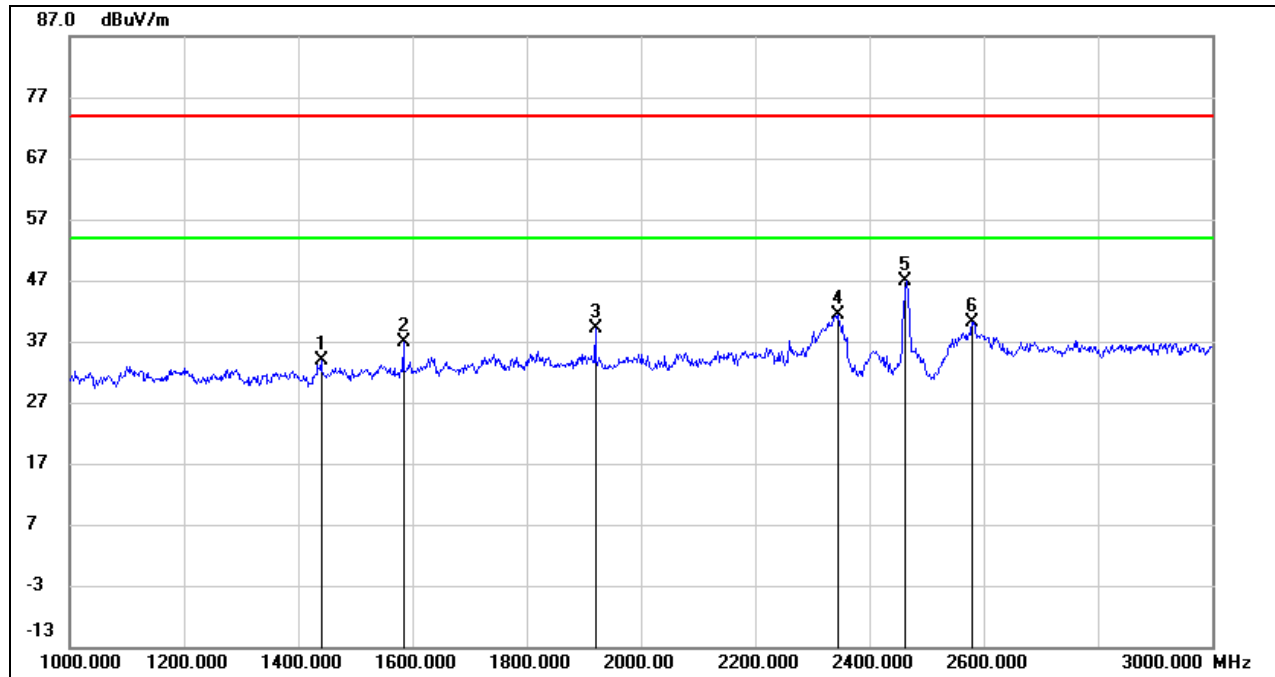
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.

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	1440.000	46.47	-12.51	33.96	74.00	-40.04	peak
2	1584.000	48.63	-11.66	36.97	74.00	-37.03	peak
3	1920.000	49.29	-10.13	39.16	74.00	-34.84	peak
4	2344.000	49.89	-8.58	41.31	74.00	-32.69	peak
5	2462.000	55.29	-8.29	47.00	/	/	Fundamental
6	2580.000	48.14	-7.93	40.21	74.00	-33.79	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.

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

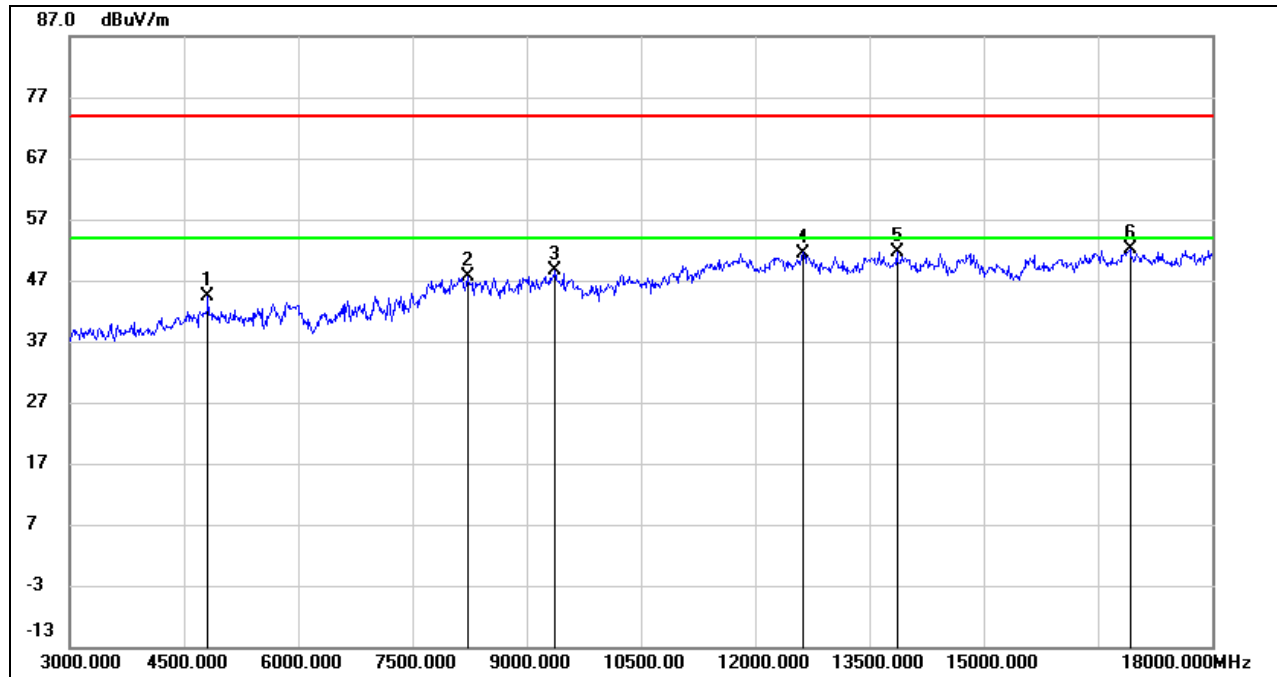
Note: All modes and channels have been tested, only the worst data was recorded in the report.

8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

8.3.1. 802.11b SISO MODE

ANTENNA 0 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	4815.000	43.00	1.38	44.38	74.00	-29.62	peak
2	8220.000	37.95	9.79	47.74	74.00	-26.26	peak
3	9375.000	37.79	10.83	48.62	74.00	-25.38	peak
4	12630.000	35.78	15.72	51.50	74.00	-22.50	peak
5	13860.000	34.17	17.55	51.72	74.00	-22.28	peak
6	16920.000	30.72	21.51	52.23	74.00	-21.77	peak

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

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

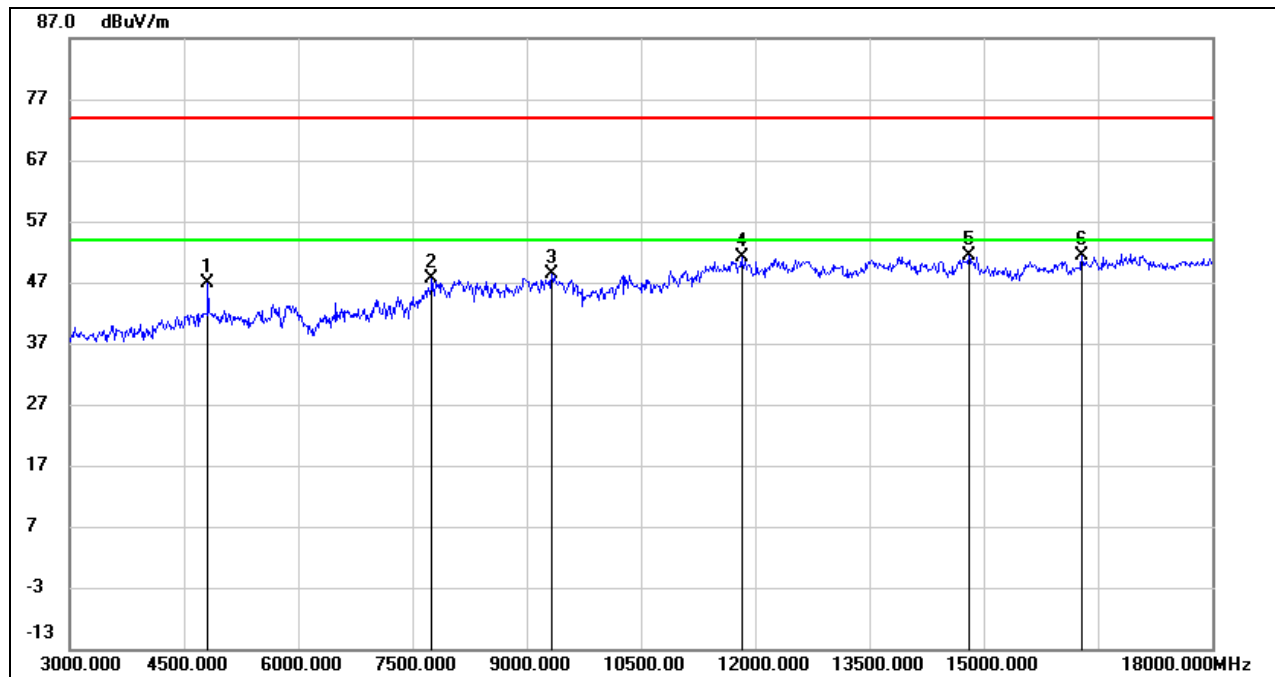
3. Peak: Peak detector.

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

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

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

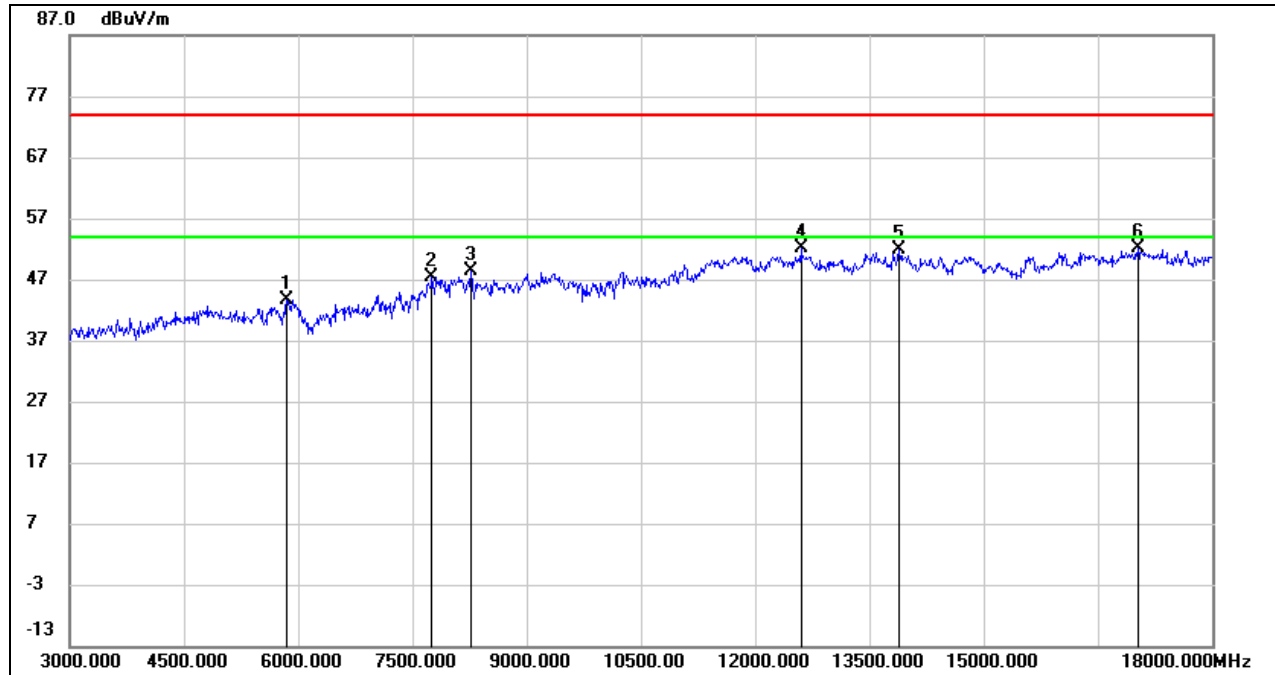
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	45.45	1.38	46.83	74.00	-27.17	peak
2	7755.000	38.73	8.94	47.67	74.00	-26.33	peak
3	9330.000	37.69	10.57	48.26	74.00	-25.74	peak
4	11820.000	35.78	15.29	51.07	74.00	-22.93	peak
5	14805.000	33.27	18.00	51.27	74.00	-22.73	peak
6	16290.000	31.81	19.52	51.33	74.00	-22.67	peak

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.67	4.00	43.67	74.00	-30.33	peak
2	7755.000	38.36	8.94	47.30	74.00	-26.70	peak
3	8265.000	38.72	9.73	48.45	74.00	-25.55	peak
4	12600.000	36.45	15.78	52.23	74.00	-21.77	peak
5	13890.000	34.44	17.53	51.97	74.00	-22.03	peak
6	17025.000	30.72	21.40	52.12	74.00	-21.88	peak

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

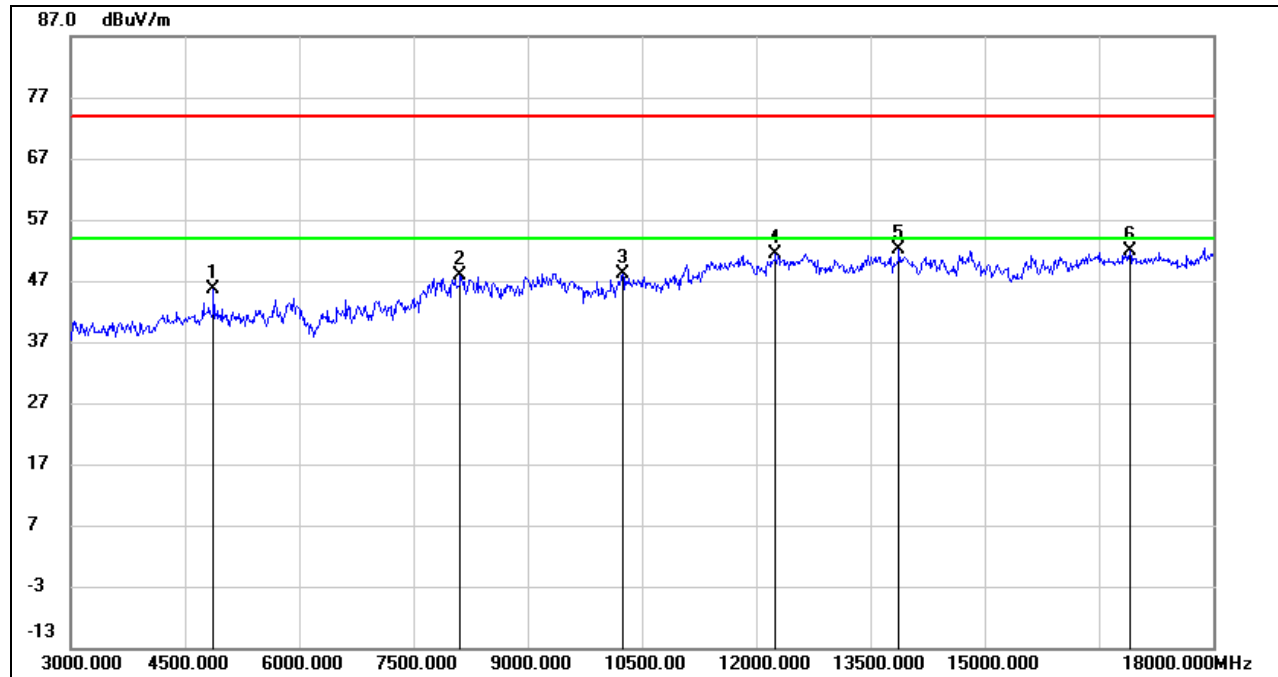
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	44.23	1.32	45.55	74.00	-28.45	peak
2	8115.000	37.69	10.13	47.82	74.00	-26.18	peak
3	10245.000	36.51	11.63	48.14	74.00	-25.86	peak
4	12255.000	35.37	16.03	51.40	74.00	-22.60	peak
5	13875.000	34.54	17.55	52.09	74.00	-21.91	peak
6	16905.000	30.29	21.55	51.84	74.00	-22.16	peak

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

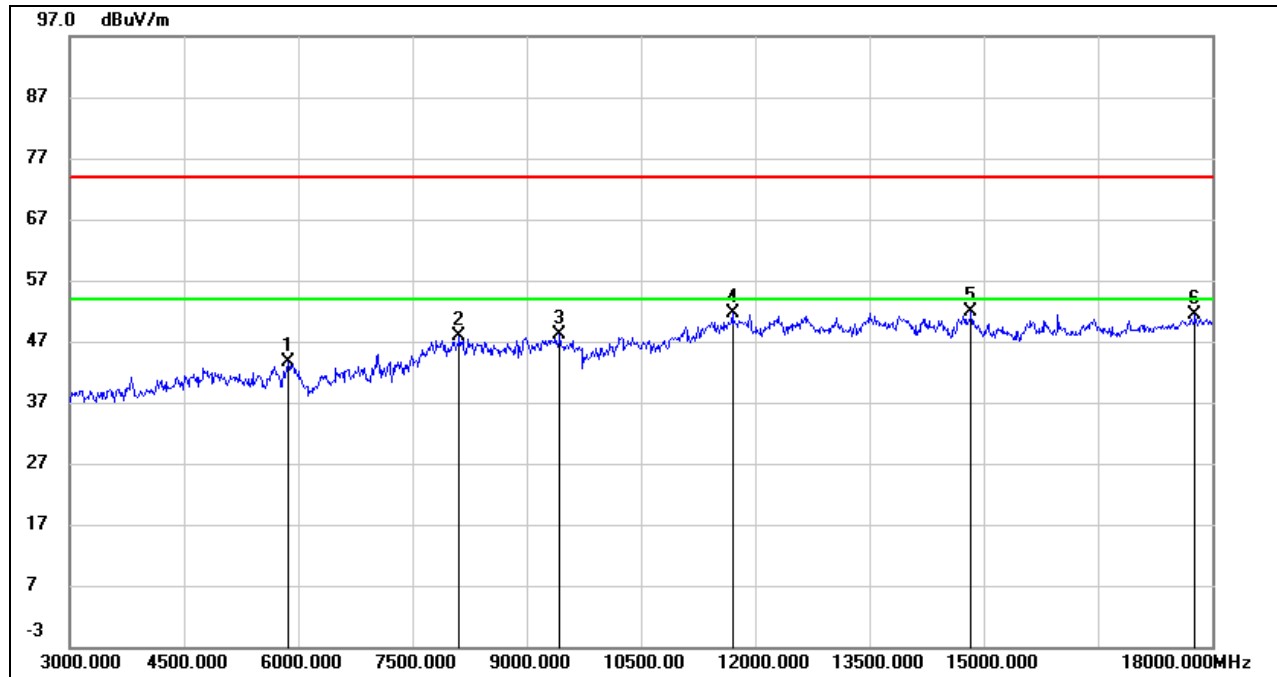
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.35	4.16	43.51	74.00	-30.49	peak
2	8115.000	37.64	10.13	47.77	74.00	-26.23	peak
3	9435.000	37.26	10.81	48.07	74.00	-25.93	peak
4	11700.000	36.29	15.35	51.64	74.00	-22.36	peak
5	14835.000	34.03	17.80	51.83	74.00	-22.17	peak
6	17775.000	27.40	23.91	51.31	74.00	-22.69	peak

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

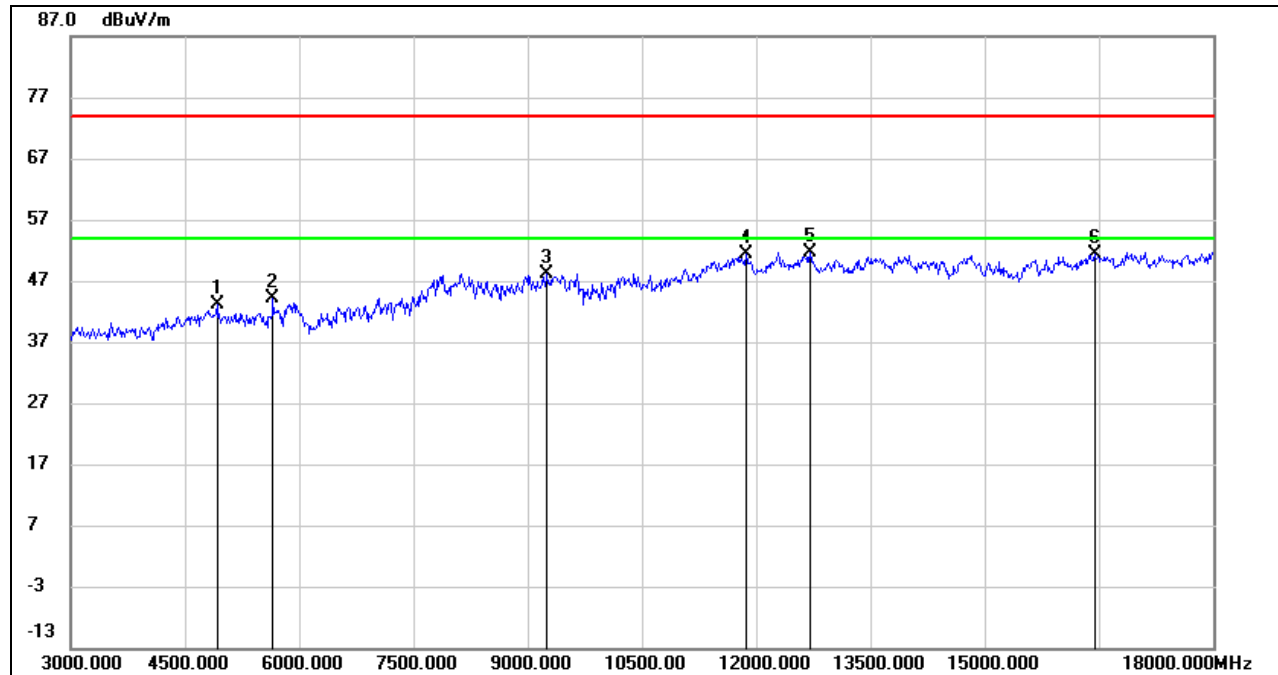
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	41.78	1.45	43.23	74.00	-30.77	peak
2	5655.000	41.11	3.04	44.15	74.00	-29.85	peak
3	9255.000	37.97	10.17	48.14	74.00	-25.86	peak
4	11865.000	35.94	15.42	51.36	74.00	-22.64	peak
5	12705.000	36.09	15.64	51.73	74.00	-22.27	peak
6	16440.000	31.82	19.68	51.50	74.00	-22.50	peak

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

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

3. Peak: Peak detector.

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

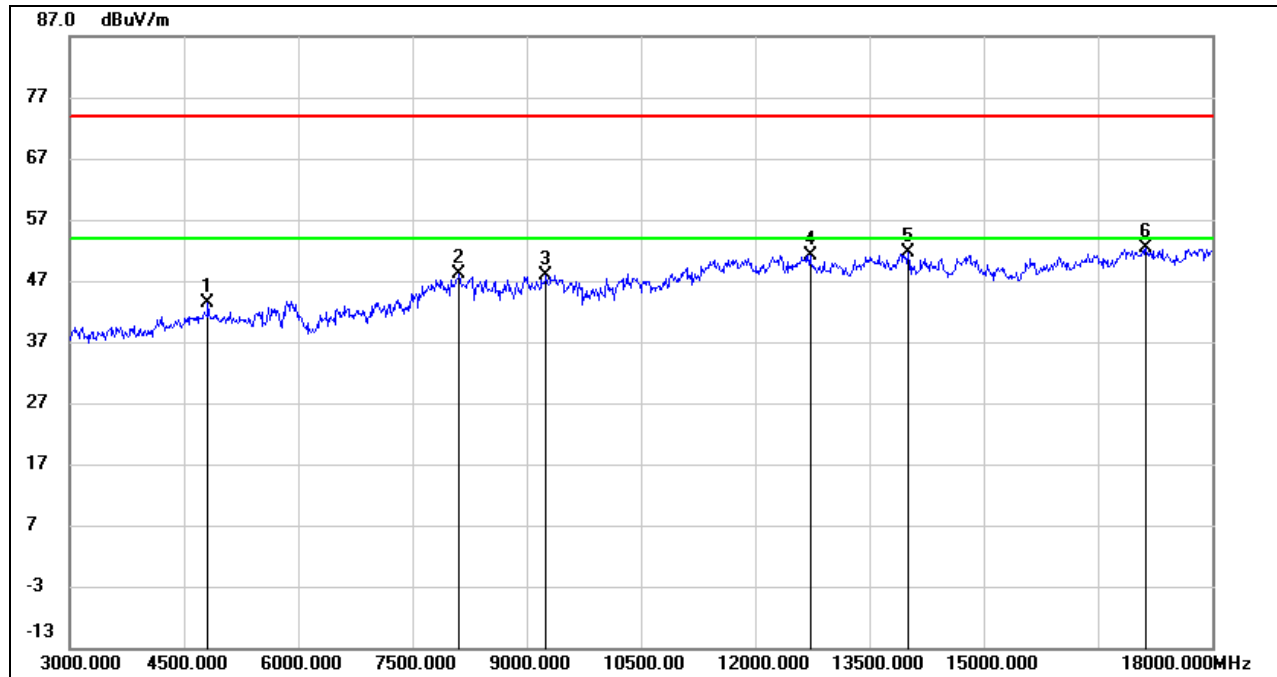
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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

8.3.2. 802.11g SISO MODE

ANTENNA 0 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	4815.000	42.00	1.38	43.38	74.00	-30.62	peak
2	8115.000	38.02	10.13	48.15	74.00	-25.85	peak
3	9255.000	37.73	10.17	47.90	74.00	-26.10	peak
4	12720.000	35.49	15.70	51.19	74.00	-22.81	peak
5	14010.000	34.01	17.64	51.65	74.00	-22.35	peak
6	17130.000	30.47	21.92	52.39	74.00	-21.61	peak

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

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

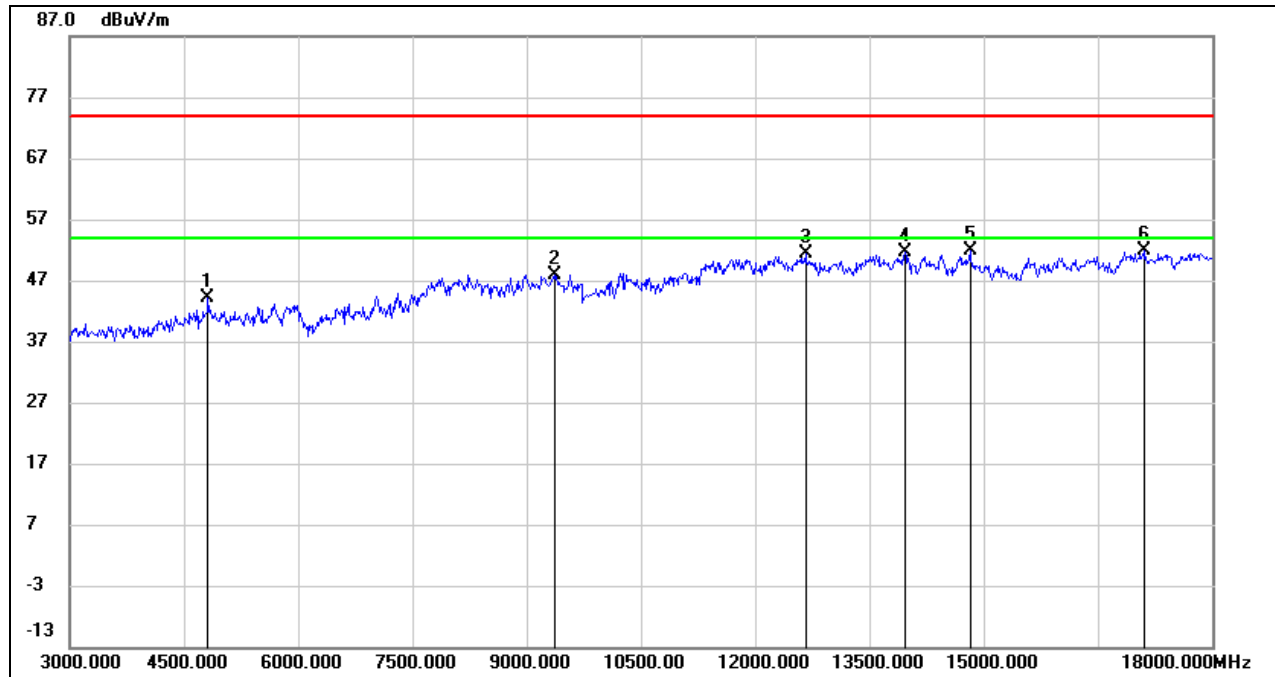
3. Peak: Peak detector.

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

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

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	42.72	1.38	44.10	74.00	-29.90	peak
2	9360.000	37.10	10.75	47.85	74.00	-26.15	peak
3	12660.000	35.75	15.69	51.44	74.00	-22.56	peak
4	13965.000	34.11	17.62	51.73	74.00	-22.27	peak
5	14820.000	34.00	17.91	51.91	74.00	-22.09	peak
6	17100.000	30.05	21.90	51.95	74.00	-22.05	peak

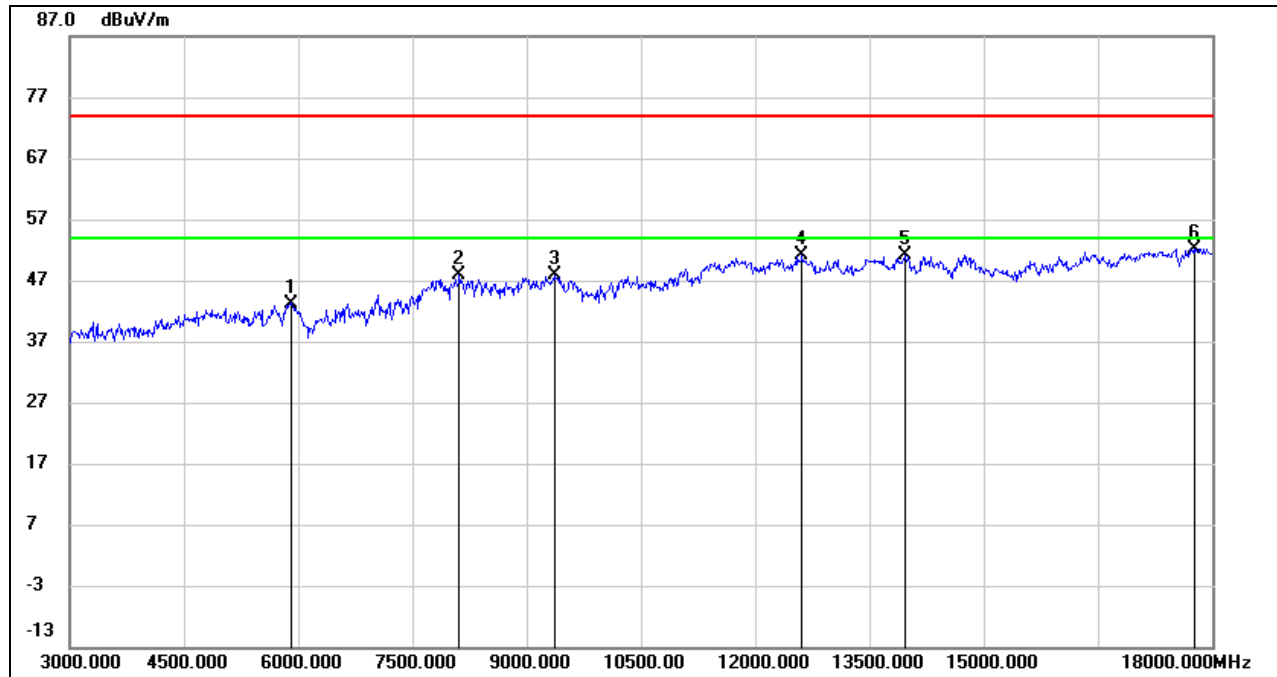
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5910.000	38.80	4.45	43.25	74.00	-30.75	peak
2	8115.000	37.72	10.13	47.85	74.00	-26.15	peak
3	9360.000	37.01	10.75	47.76	74.00	-26.24	peak
4	12615.000	35.28	15.75	51.03	74.00	-22.97	peak
5	13965.000	33.51	17.62	51.13	74.00	-22.87	peak
6	17760.000	28.39	23.82	52.21	74.00	-21.79	peak

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

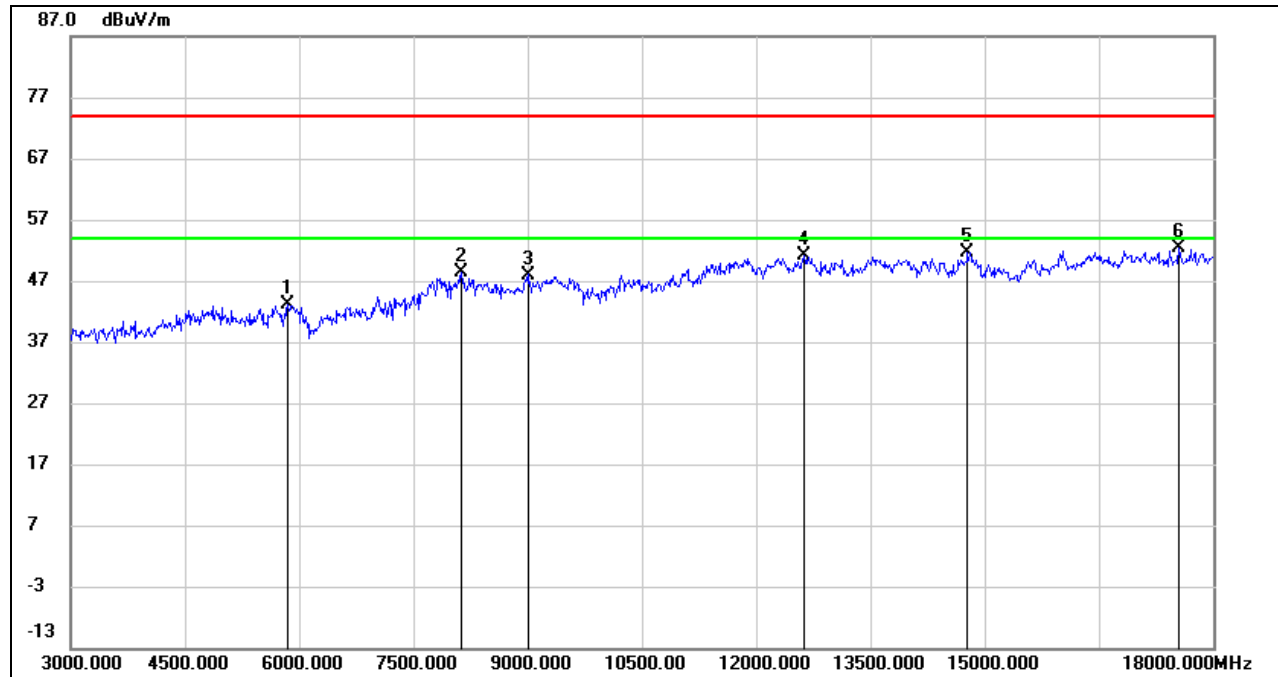
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.19	4.00	43.19	74.00	-30.81	peak
2	8130.000	38.24	10.06	48.30	74.00	-25.70	peak
3	9000.000	36.73	11.27	48.00	74.00	-26.00	peak
4	12630.000	35.36	15.72	51.08	74.00	-22.92	peak
5	14775.000	33.66	17.95	51.61	74.00	-22.39	peak
6	17550.000	30.01	22.38	52.39	74.00	-21.61	peak

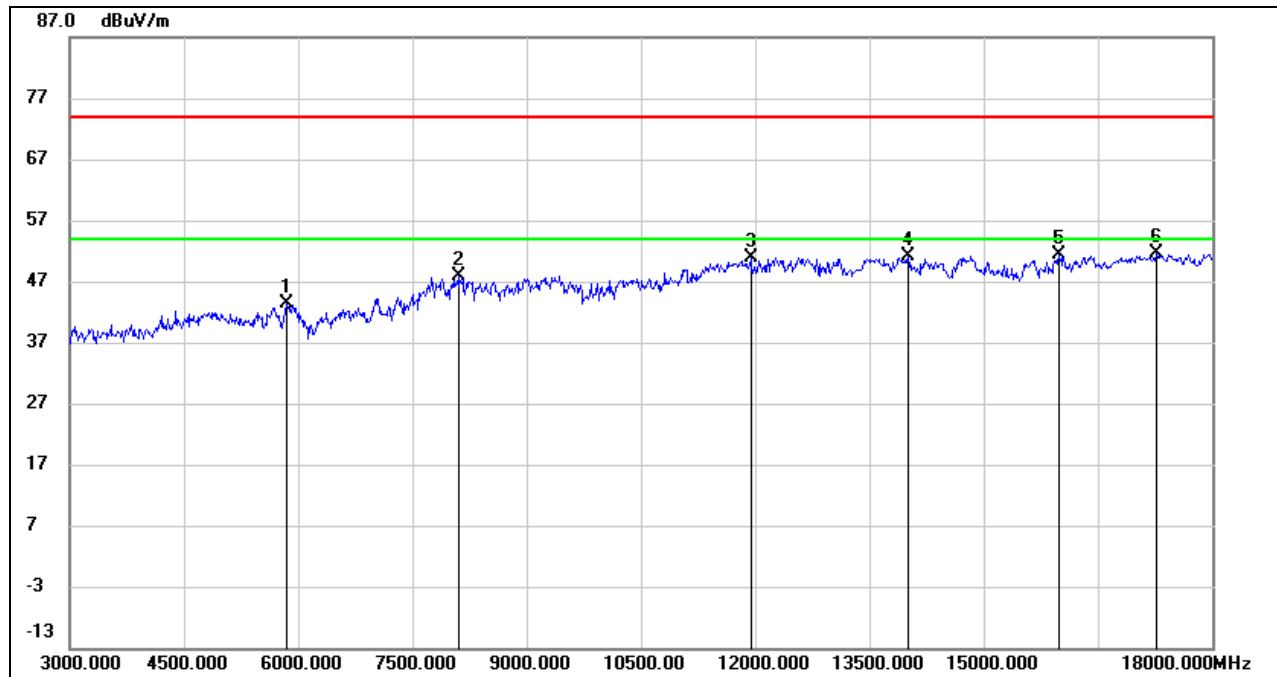
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.35	4.00	43.35	74.00	-30.65	peak
2	8115.000	37.66	10.13	47.79	74.00	-26.21	peak
3	11940.000	35.37	15.54	50.91	74.00	-23.09	peak
4	14010.000	33.49	17.64	51.13	74.00	-22.87	peak
5	15990.000	33.00	18.39	51.39	74.00	-22.61	peak
6	17265.000	29.34	22.39	51.73	74.00	-22.27	peak

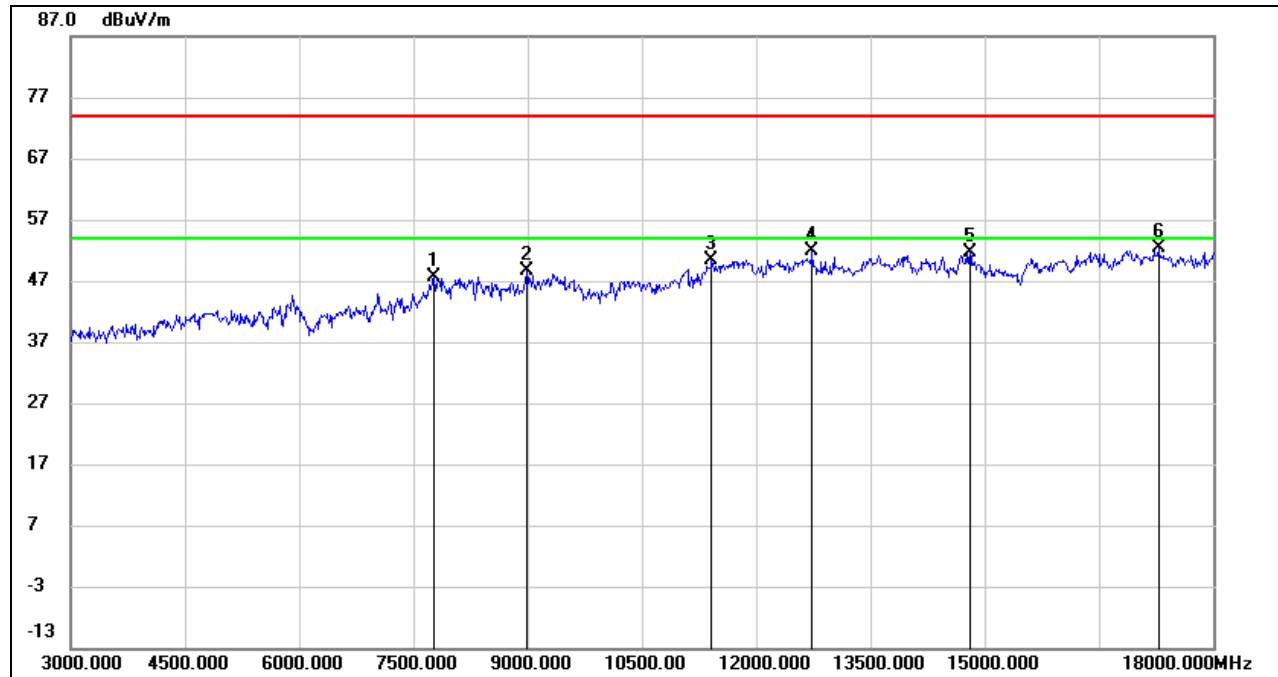
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

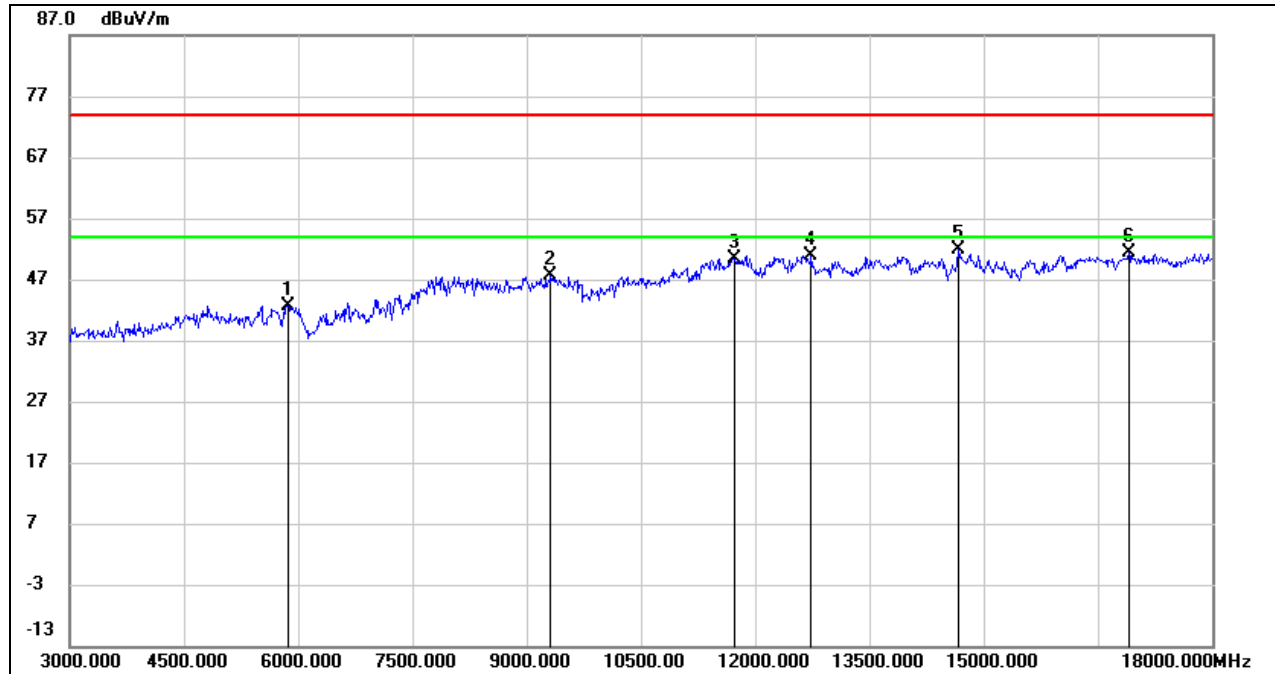
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7770.000	38.62	9.09	47.71	74.00	-26.29	peak
2	8985.000	37.62	10.99	48.61	74.00	-25.39	peak
3	11415.000	35.74	14.74	50.48	74.00	-23.52	peak
4	12735.000	36.20	15.75	51.95	74.00	-22.05	peak
5	14805.000	33.75	18.00	51.75	74.00	-22.25	peak
6	17280.000	29.86	22.48	52.34	74.00	-21.66	peak

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

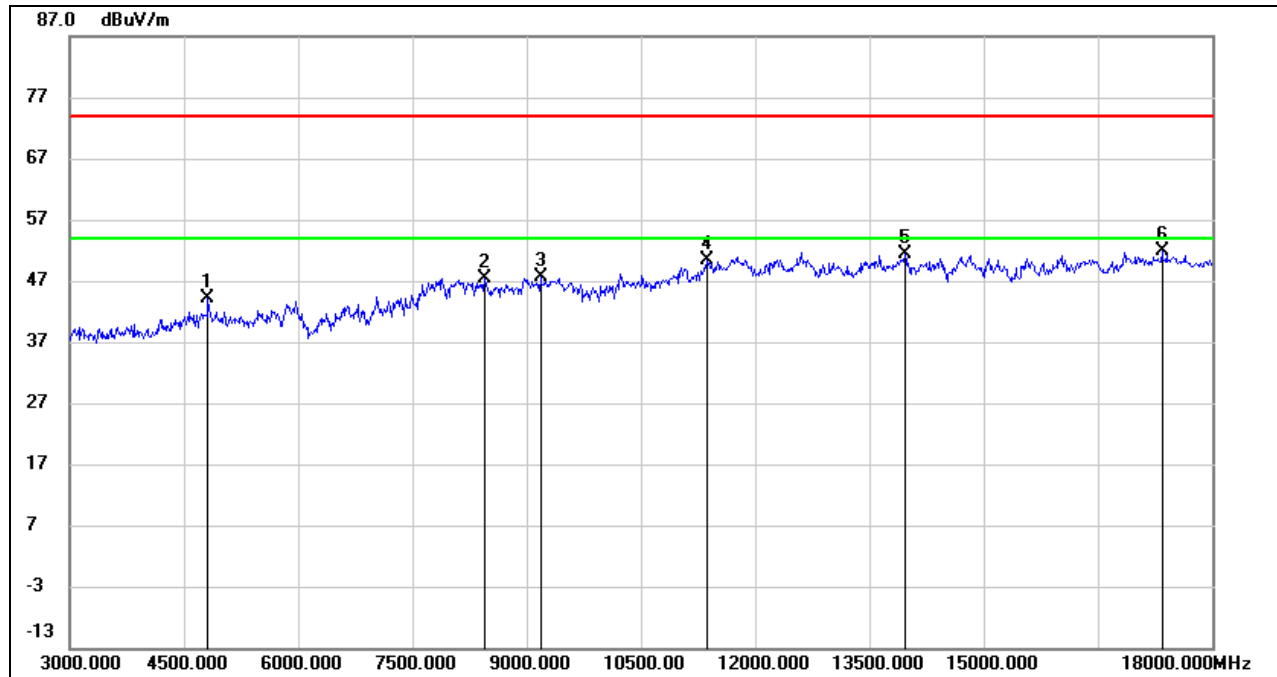
Note: Both the two antennas had been tested, but only the worst data was recorded in the report.

**8.3.3. 802.11n HT20 MIMO MODE****HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	38.55	4.16	42.71	74.00	-31.29	peak
2	9315.000	37.25	10.48	47.73	74.00	-26.27	peak
3	11730.000	35.15	15.32	50.47	74.00	-23.53	peak
4	12735.000	35.21	15.75	50.96	74.00	-23.04	peak
5	14670.000	34.35	17.59	51.94	74.00	-22.06	peak
6	16905.000	29.89	21.55	51.44	74.00	-22.56	peak

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

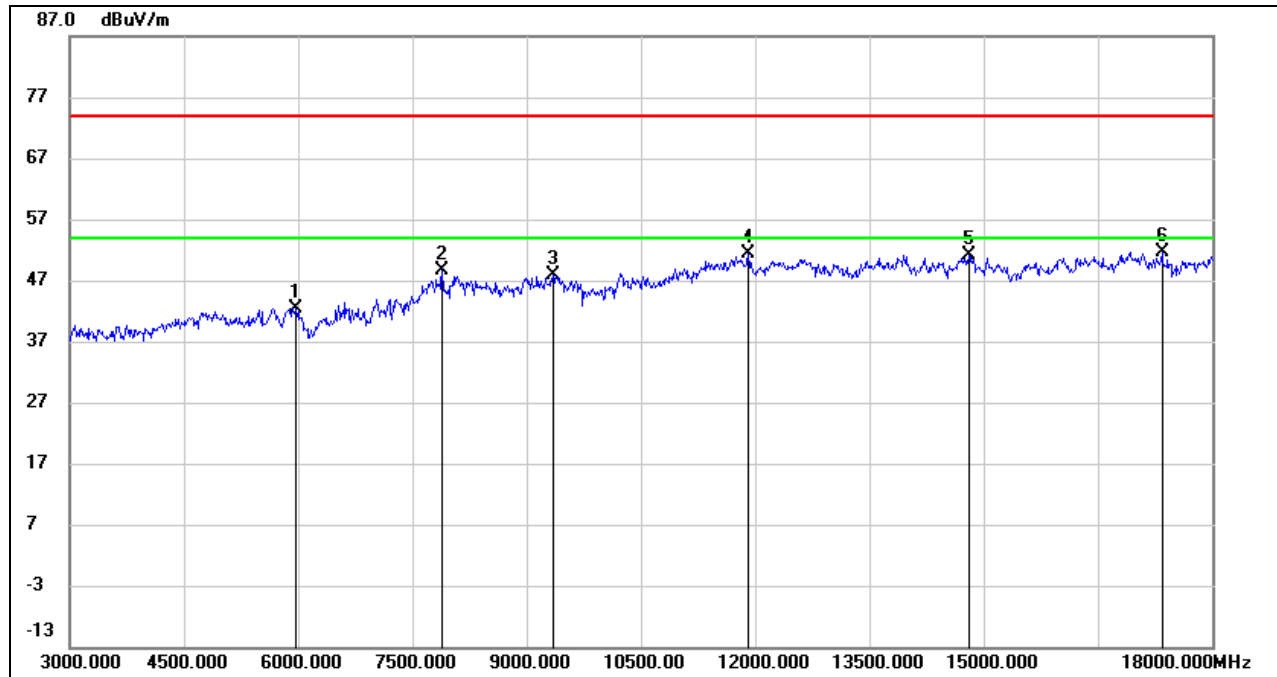
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	42.69	1.38	44.07	74.00	-29.93	peak
2	8445.000	38.18	9.24	47.42	74.00	-26.58	peak
3	9180.000	37.79	9.95	47.74	74.00	-26.26	peak
4	11370.000	35.88	14.49	50.37	74.00	-23.63	peak
5	13965.000	33.66	17.62	51.28	74.00	-22.72	peak
6	17340.000	29.53	22.31	51.84	74.00	-22.16	peak

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5970.000	38.24	4.15	42.39	74.00	-31.61	peak
2	7890.000	39.74	8.91	48.65	74.00	-25.35	peak
3	9345.000	37.12	10.66	47.78	74.00	-26.22	peak
4	11910.000	35.89	15.52	51.41	74.00	-22.59	peak
5	14805.000	33.22	18.00	51.22	74.00	-22.78	peak
6	17340.000	29.30	22.31	51.61	74.00	-22.39	peak

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

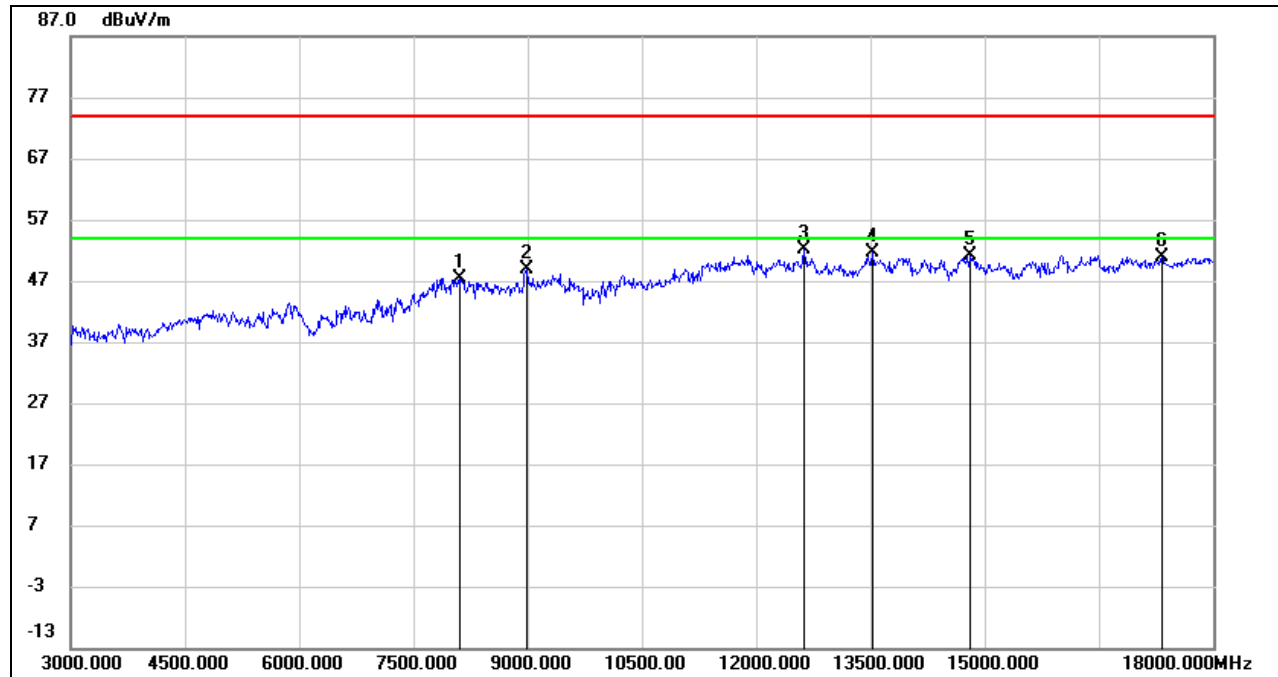
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8115.000	37.23	10.13	47.36	74.00	-26.64	peak
2	8985.000	37.96	10.99	48.95	74.00	-25.05	peak
3	12630.000	36.48	15.72	52.20	74.00	-21.80	peak
4	13530.000	34.46	17.19	51.65	74.00	-22.35	peak
5	14805.000	33.12	18.00	51.12	74.00	-22.88	peak
6	17325.000	28.44	22.42	50.86	74.00	-23.14	peak

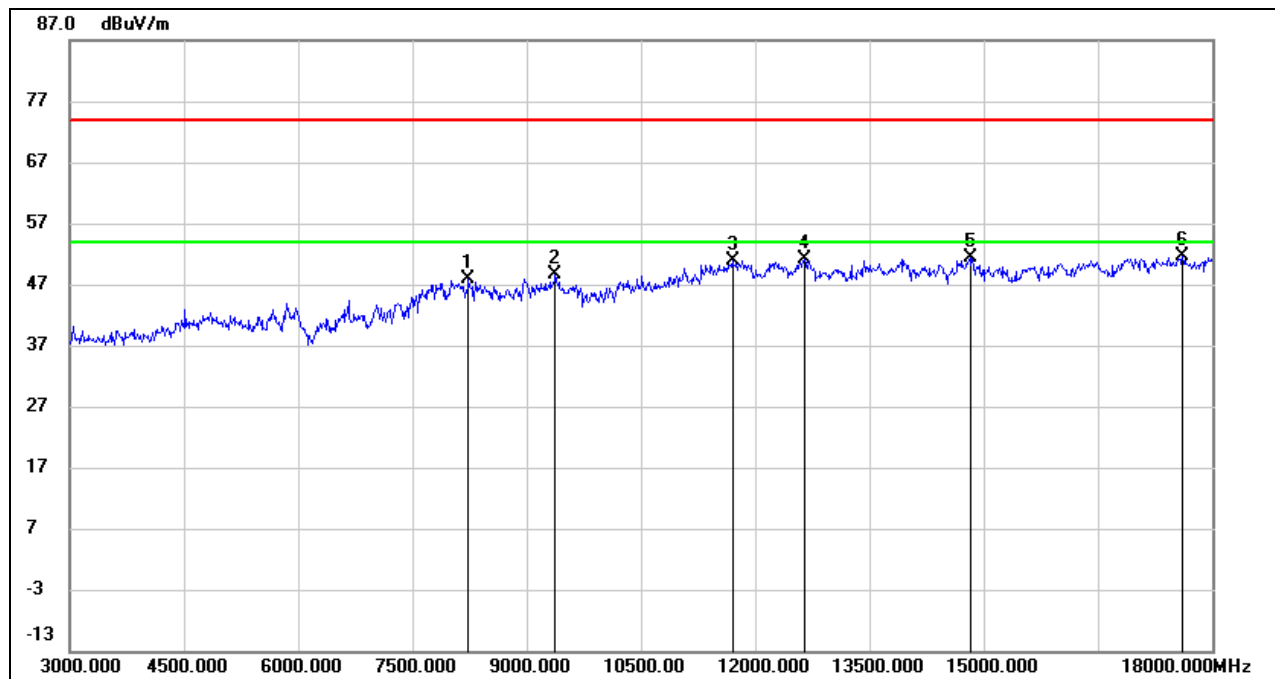
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8235.000	38.04	9.76	47.80	74.00	-26.20	peak
2	9375.000	37.69	10.83	48.52	74.00	-25.48	peak
3	11700.000	35.59	15.35	50.94	74.00	-23.06	peak
4	12645.000	35.43	15.71	51.14	74.00	-22.86	peak
5	14820.000	33.40	17.91	51.31	74.00	-22.69	peak
6	17610.000	28.75	22.80	51.55	74.00	-22.45	peak

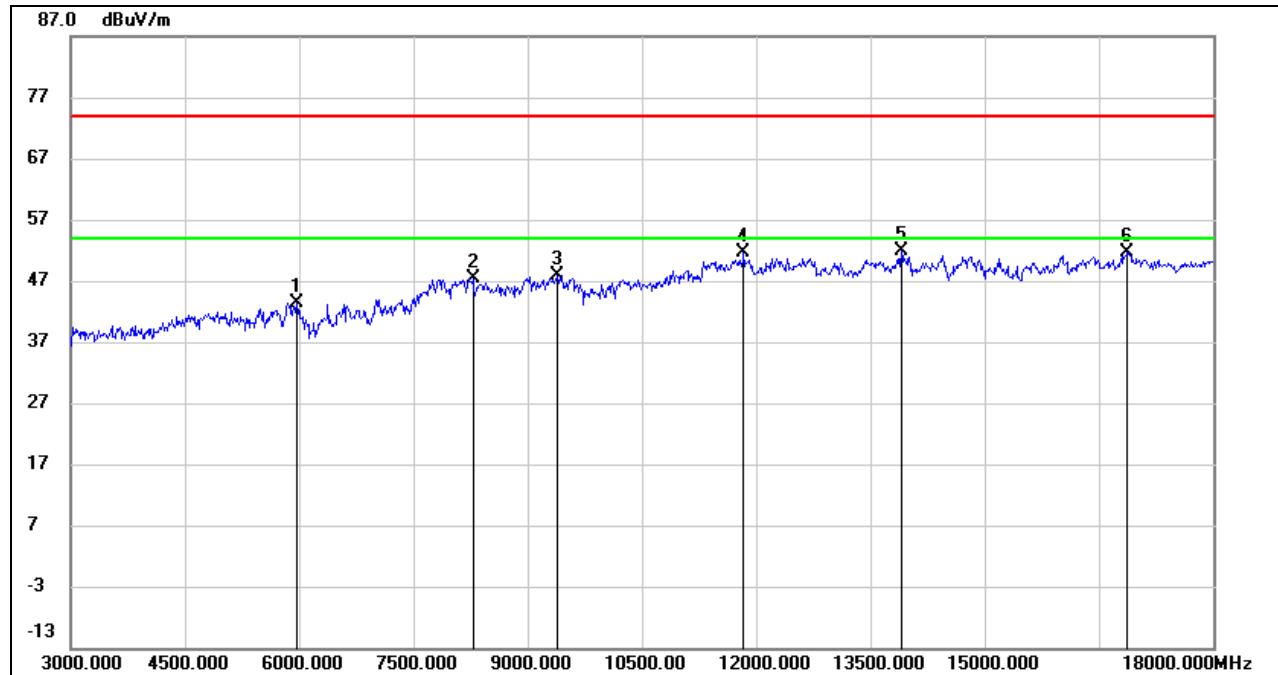
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5970.000	39.17	4.15	43.32	74.00	-30.68	peak
2	8280.000	37.63	9.71	47.34	74.00	-26.66	peak
3	9390.000	36.97	10.92	47.89	74.00	-26.11	peak
4	11835.000	36.24	15.34	51.58	74.00	-22.42	peak
5	13905.000	34.24	17.54	51.78	74.00	-22.22	peak
6	16875.000	30.20	21.35	51.55	74.00	-22.45	peak

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

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

3. Peak: Peak detector.

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

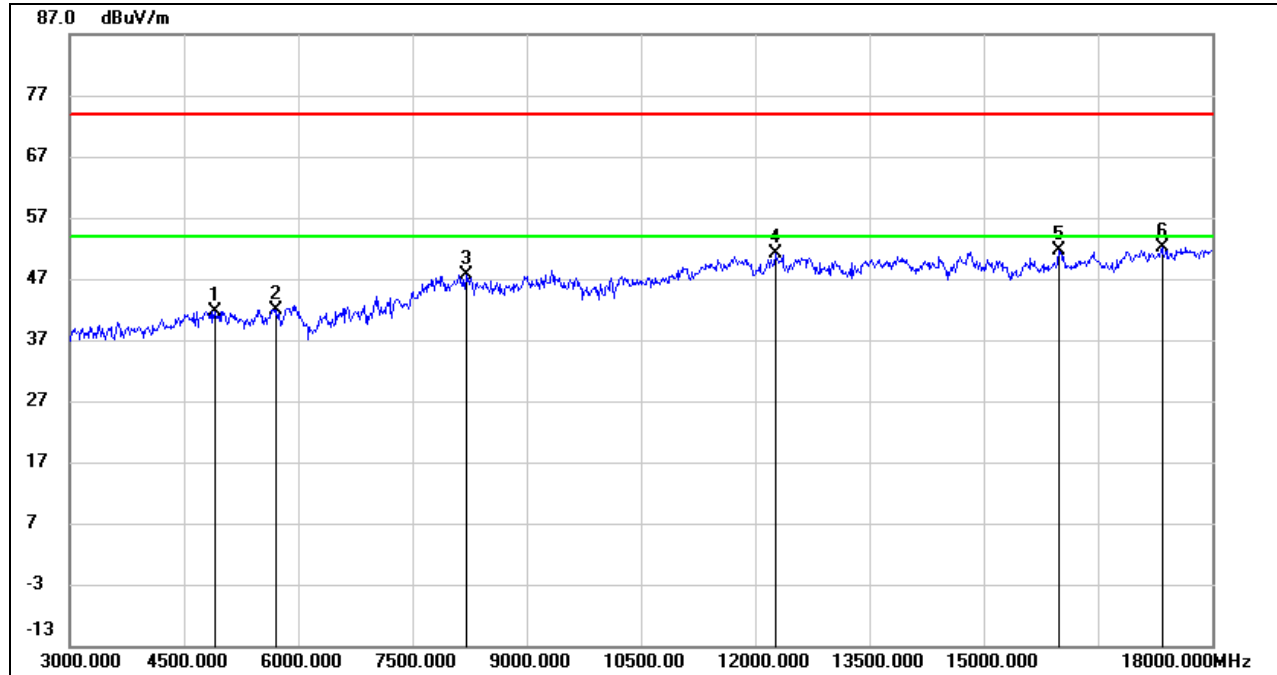
5. For the transmitting duration, please refer to clause 7.1.

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

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

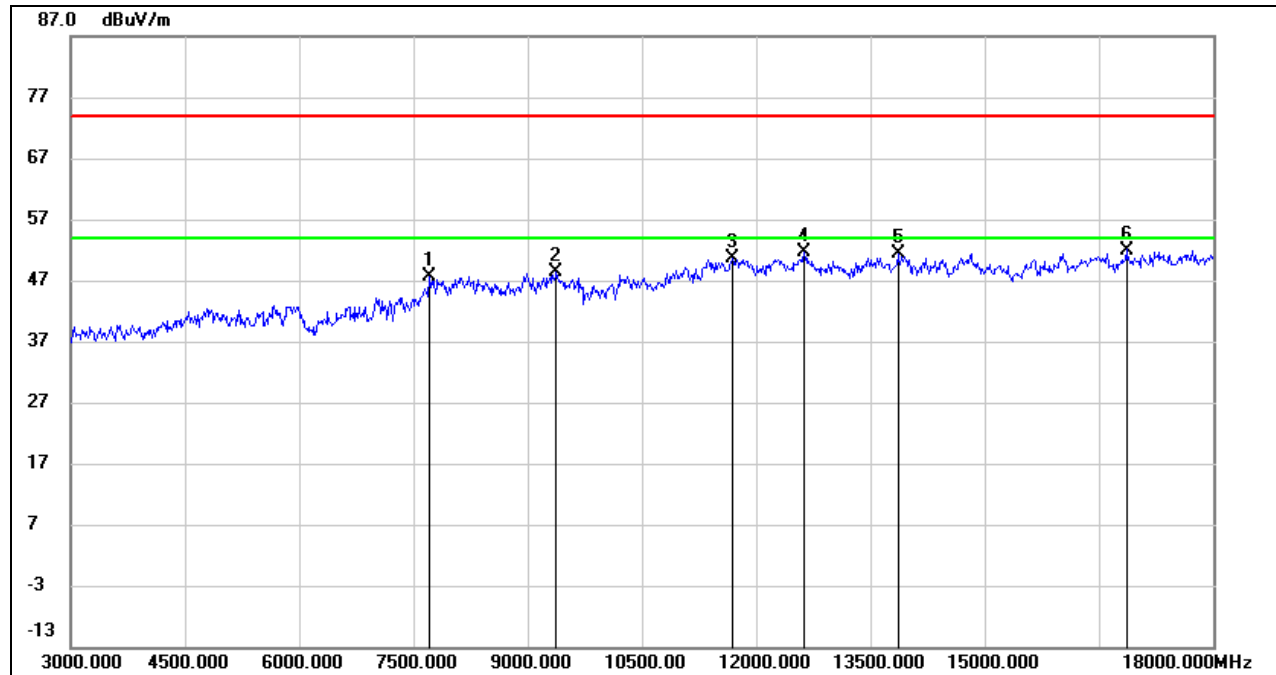
8.3.4. 802.11n HT40 MIMO MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	40.41	1.33	41.74	74.00	-32.26	peak
2	5715.000	38.83	3.15	41.98	74.00	-32.02	peak
3	8205.000	37.89	9.80	47.69	74.00	-26.31	peak
4	12270.000	35.17	16.04	51.21	74.00	-22.79	peak
5	15990.000	33.12	18.39	51.51	74.00	-22.49	peak
6	17340.000	29.78	22.31	52.09	74.00	-21.91	peak

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7710.000	39.12	8.54	47.66	74.00	-26.34	peak
2	9375.000	37.43	10.83	48.26	74.00	-25.74	peak
3	11685.000	35.45	15.26	50.71	74.00	-23.29	peak
4	12630.000	36.00	15.72	51.72	74.00	-22.28	peak
5	13860.000	33.85	17.55	51.40	74.00	-22.60	peak
6	16860.000	30.78	21.22	52.00	74.00	-22.00	peak

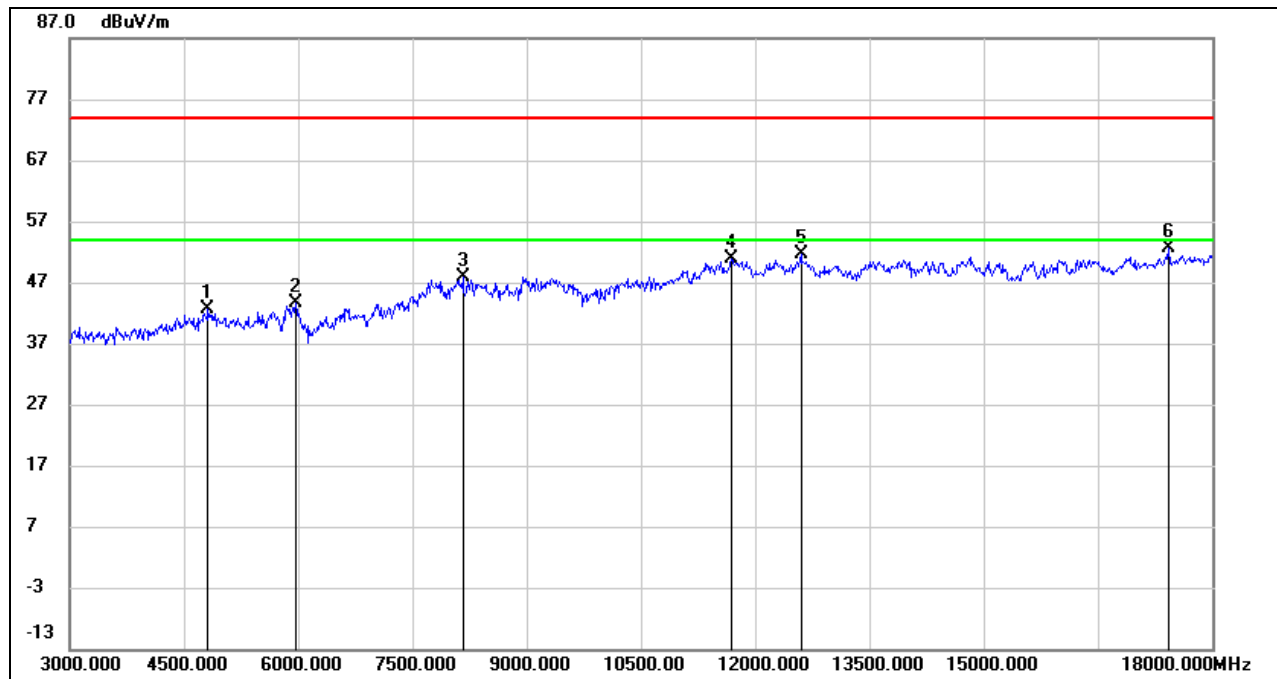
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.22	1.38	42.60	74.00	-31.40	peak
2	5970.000	39.49	4.15	43.64	74.00	-30.36	peak
3	8160.000	37.91	9.96	47.87	74.00	-26.13	peak
4	11685.000	35.73	15.26	50.99	74.00	-23.01	peak
5	12600.000	35.78	15.78	51.56	74.00	-22.44	peak
6	17430.000	30.76	21.92	52.68	74.00	-21.32	peak

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

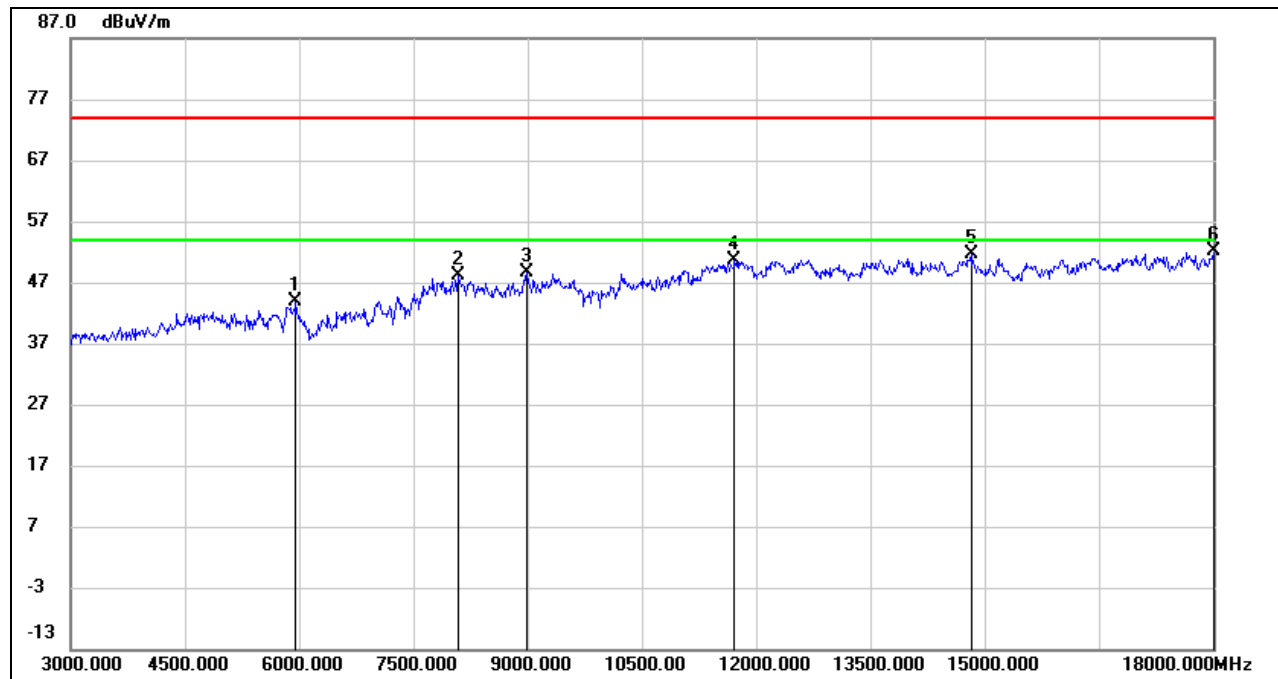
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5955.000	39.53	4.24	43.77	74.00	-30.23	peak
2	8085.000	38.24	9.94	48.18	74.00	-25.82	peak
3	8985.000	37.61	10.99	48.60	74.00	-25.40	peak
4	11715.000	35.38	15.34	50.72	74.00	-23.28	peak
5	14820.000	33.68	17.91	51.59	74.00	-22.41	peak
6	18000.000	27.90	24.27	52.17	74.00	-21.83	peak

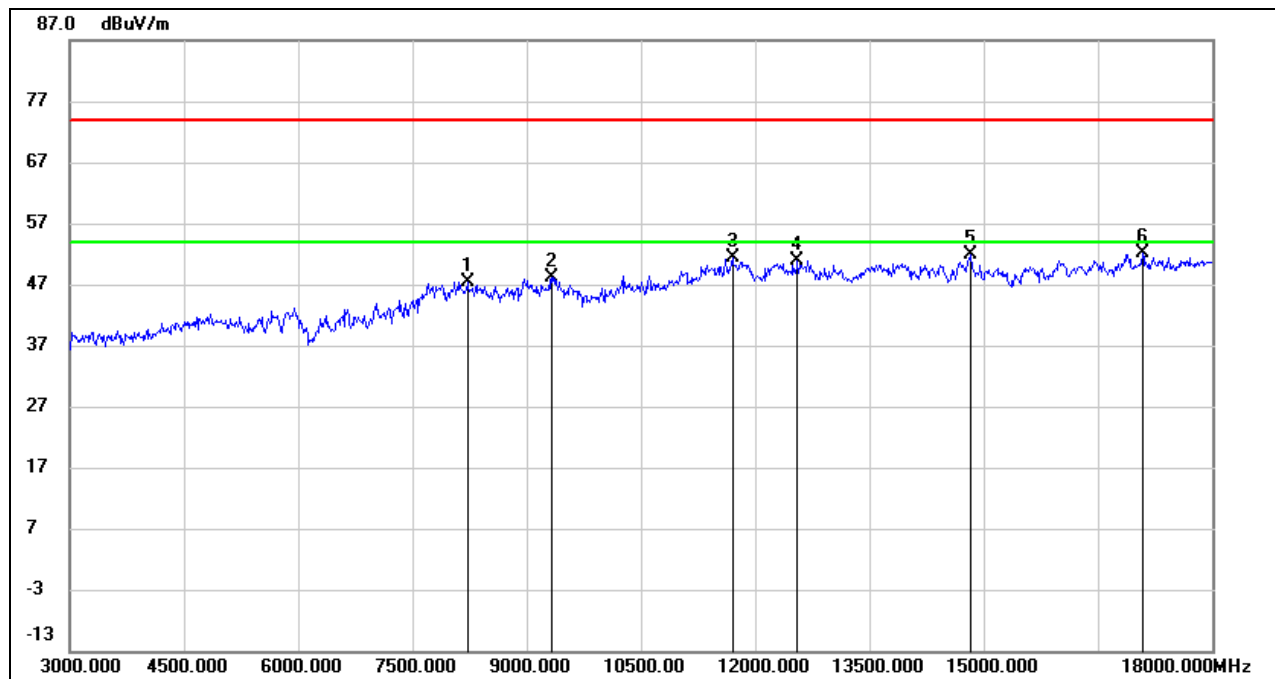
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8220.000	37.62	9.79	47.41	74.00	-26.59	peak
2	9330.000	37.60	10.57	48.17	74.00	-25.83	peak
3	11700.000	35.93	15.35	51.28	74.00	-22.72	peak
4	12555.000	35.17	15.73	50.90	74.00	-23.10	peak
5	14820.000	34.05	17.91	51.96	74.00	-22.04	peak
6	17085.000	30.39	21.80	52.19	74.00	-21.81	peak

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

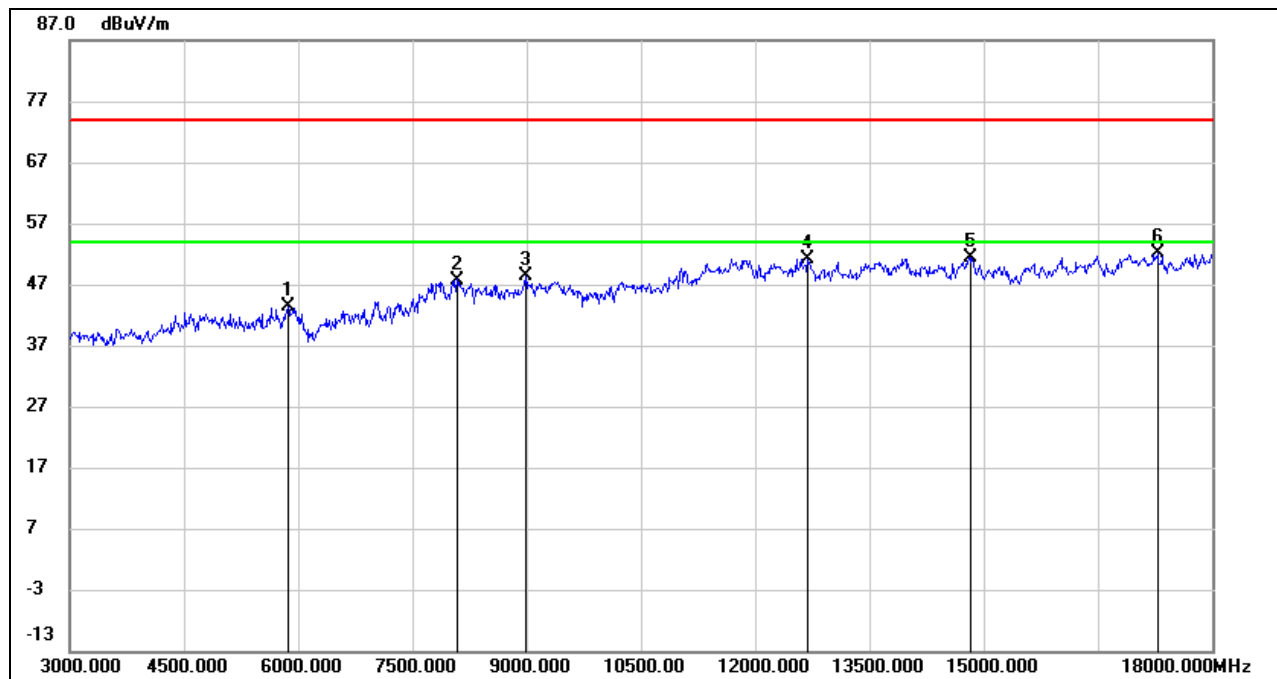
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.28	4.16	43.44	74.00	-30.56	peak
2	8085.000	37.81	9.94	47.75	74.00	-26.25	peak
3	8985.000	37.30	10.99	48.29	74.00	-25.71	peak
4	12690.000	35.54	15.64	51.18	74.00	-22.82	peak
5	14820.000	33.52	17.91	51.43	74.00	-22.57	peak
6	17280.000	29.68	22.48	52.16	74.00	-21.84	peak

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

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

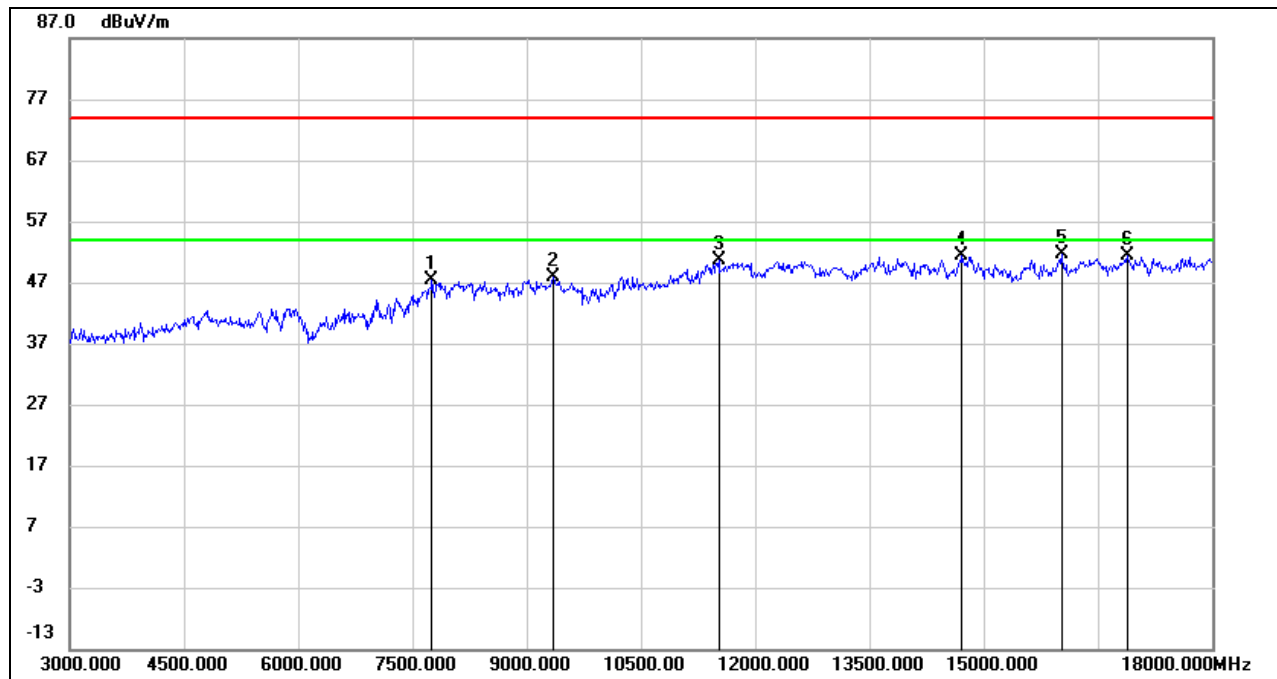
3. Peak: Peak detector.

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

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

8.3.5. 802.11ax HE20 MIMO MODE

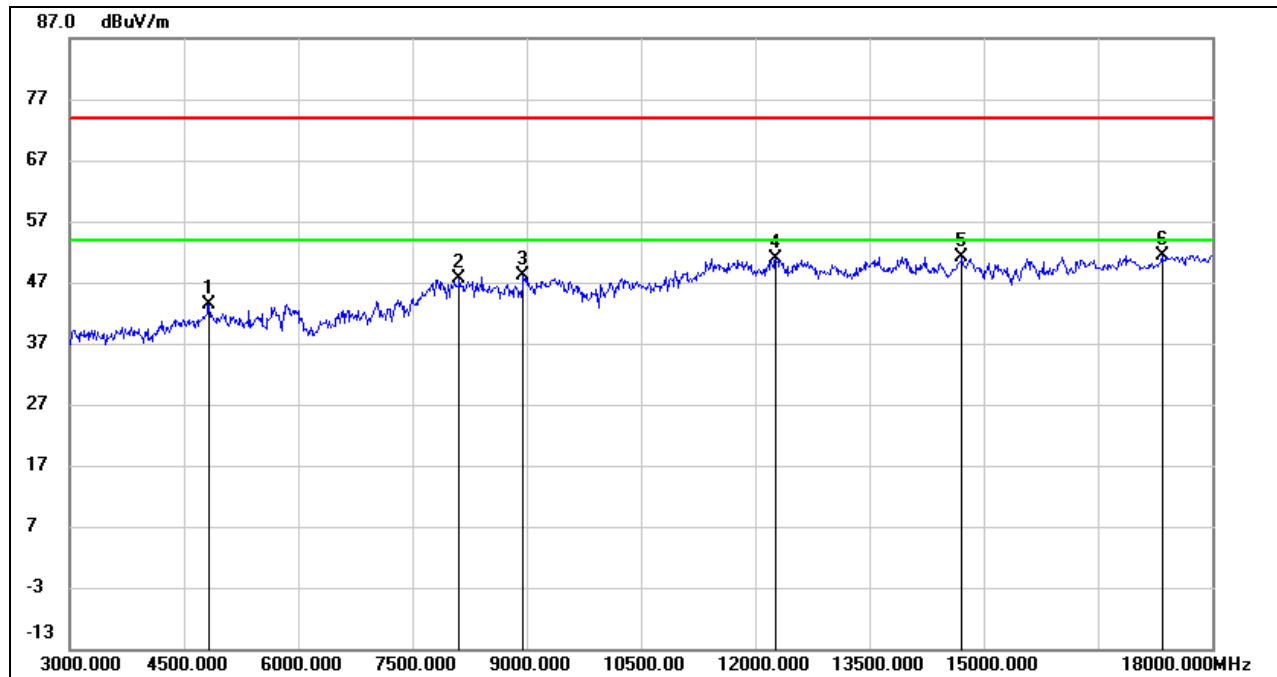
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7755.000	38.39	8.94	47.33	74.00	-26.67	peak
2	9345.000	37.21	10.66	47.87	74.00	-26.13	peak
3	11520.000	36.07	14.66	50.73	74.00	-23.27	peak
4	14715.000	33.64	17.74	51.38	74.00	-22.62	peak
5	16020.000	33.32	18.41	51.73	74.00	-22.27	peak
6	16890.000	29.85	21.49	51.34	74.00	-22.66	peak

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

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	42.09	1.37	43.46	74.00	-30.54	peak
2	8115.000	37.58	10.13	47.71	74.00	-26.29	peak
3	8955.000	37.76	10.41	48.17	74.00	-25.83	peak
4	12270.000	34.80	16.04	50.84	74.00	-23.16	peak
5	14715.000	33.51	17.74	51.25	74.00	-22.75	peak
6	17340.000	29.16	22.31	51.47	74.00	-22.53	peak

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

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

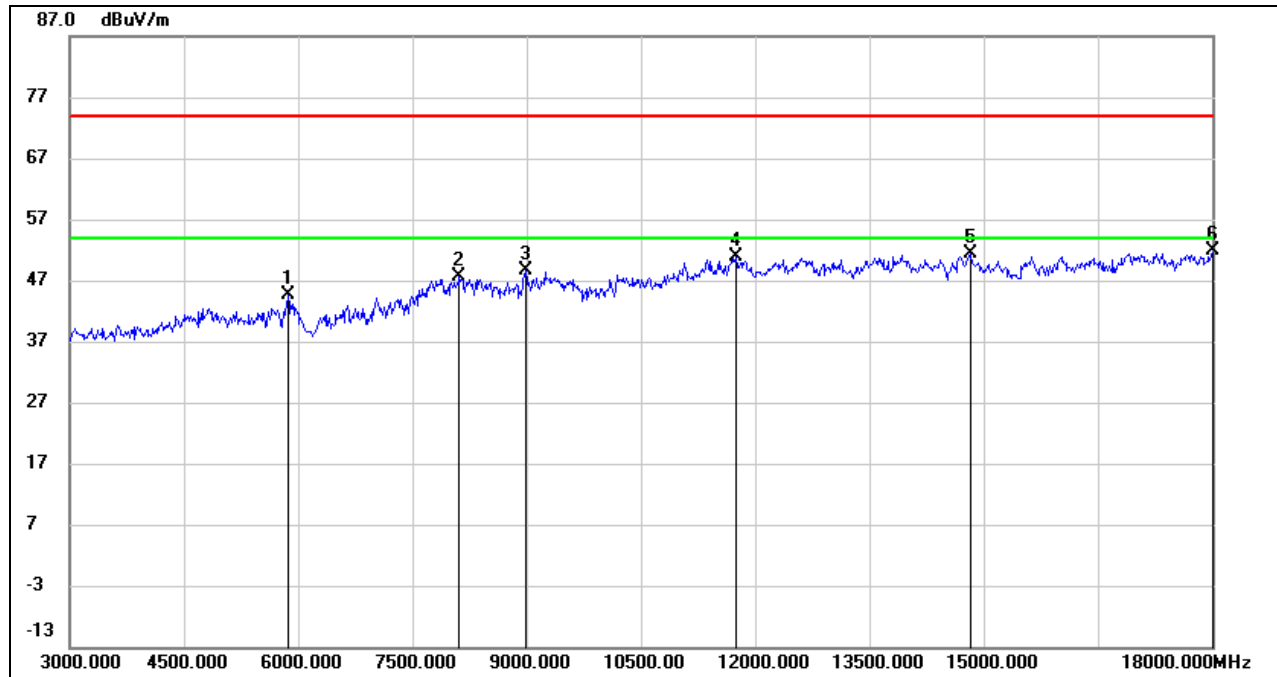
3. Peak: Peak detector.

4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.

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

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	40.37	4.16	44.53	74.00	-29.47	peak
2	8115.000	37.45	10.13	47.58	74.00	-26.42	peak
3	8985.000	37.60	10.99	48.59	74.00	-25.41	peak
4	11745.000	35.63	15.30	50.93	74.00	-23.07	peak
5	14835.000	33.63	17.80	51.43	74.00	-22.57	peak
6	18000.000	27.52	24.27	51.79	74.00	-22.21	peak

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

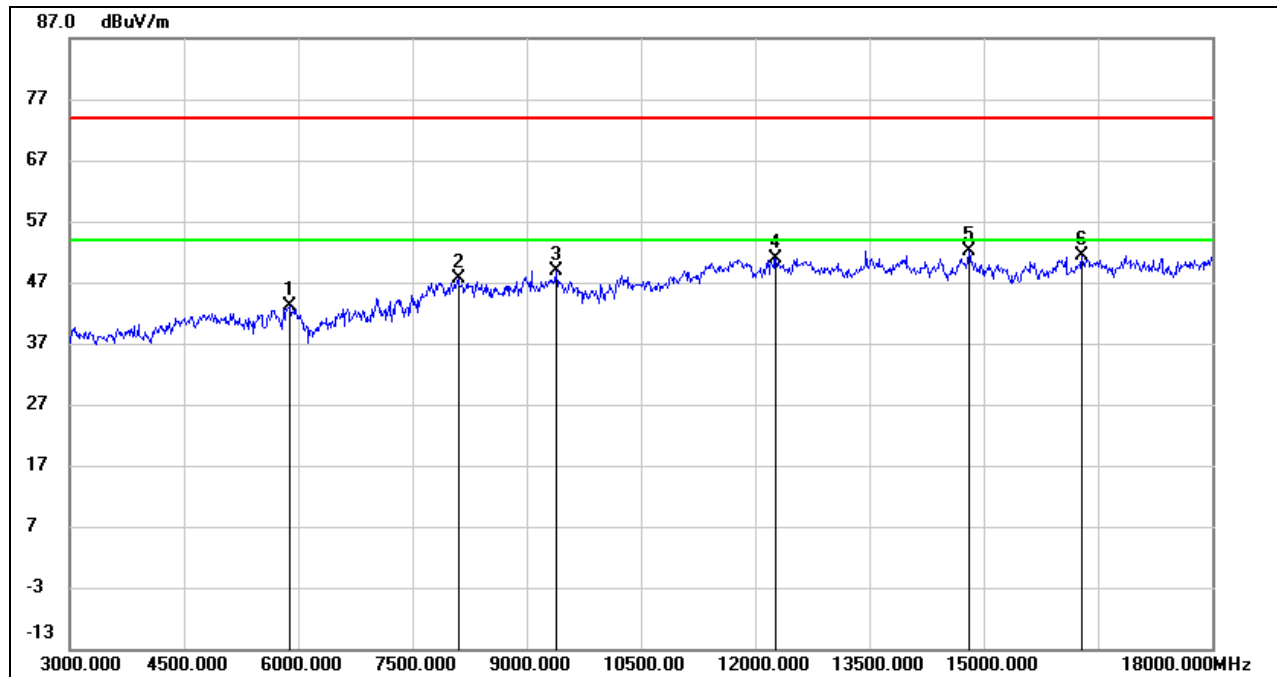
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5880.000	38.74	4.31	43.05	74.00	-30.95	peak
2	8100.000	37.44	10.18	47.62	74.00	-26.38	peak
3	9390.000	37.92	10.92	48.84	74.00	-25.16	peak
4	12270.000	34.89	16.04	50.93	74.00	-23.07	peak
5	14805.000	34.13	18.00	52.13	74.00	-21.87	peak
6	16290.000	31.78	19.52	51.30	74.00	-22.70	peak

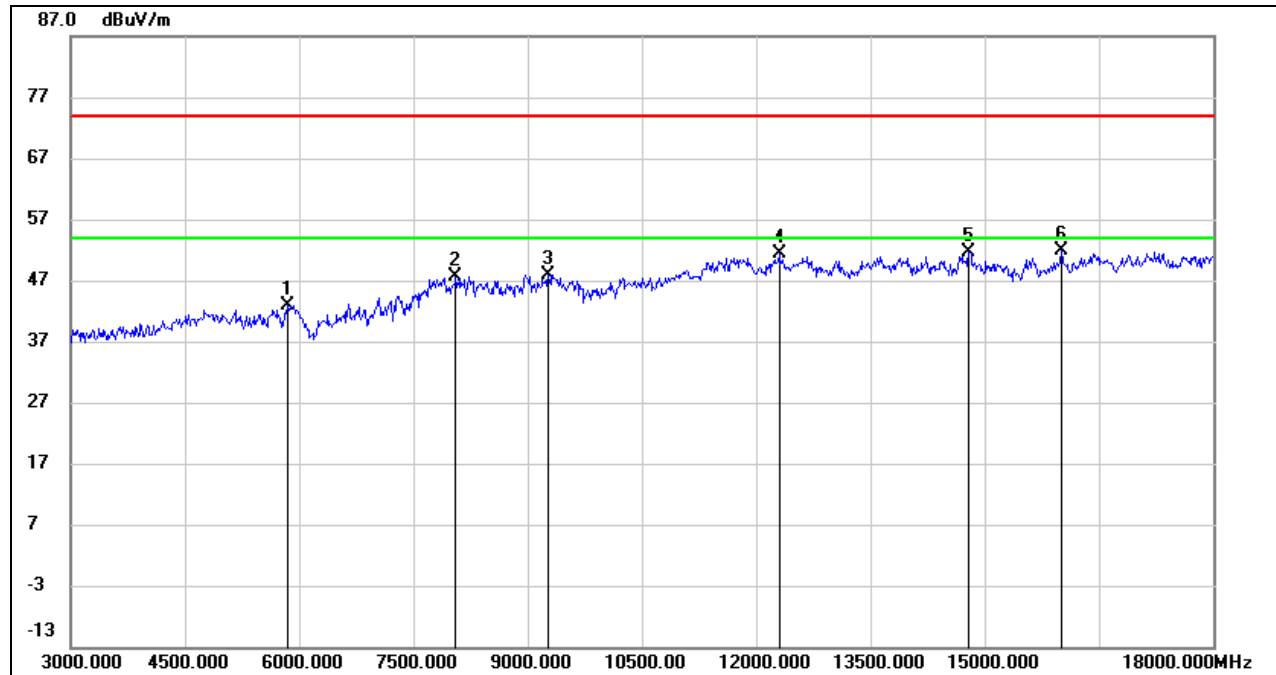
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	38.81	4.00	42.81	74.00	-31.19	peak
2	8055.000	38.17	9.48	47.65	74.00	-26.35	peak
3	9270.000	37.71	10.25	47.96	74.00	-26.04	peak
4	12300.000	35.37	16.09	51.46	74.00	-22.54	peak
5	14790.000	33.72	18.01	51.73	74.00	-22.27	peak
6	16005.000	33.50	18.42	51.92	74.00	-22.08	peak

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

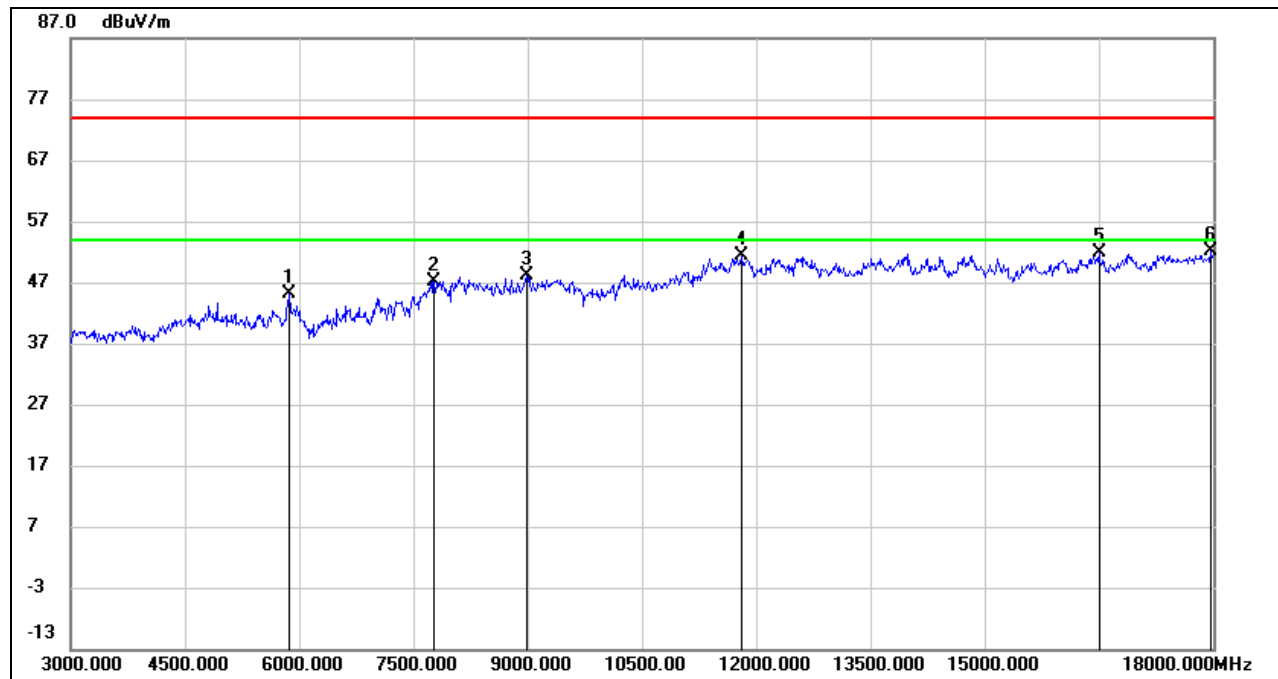
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

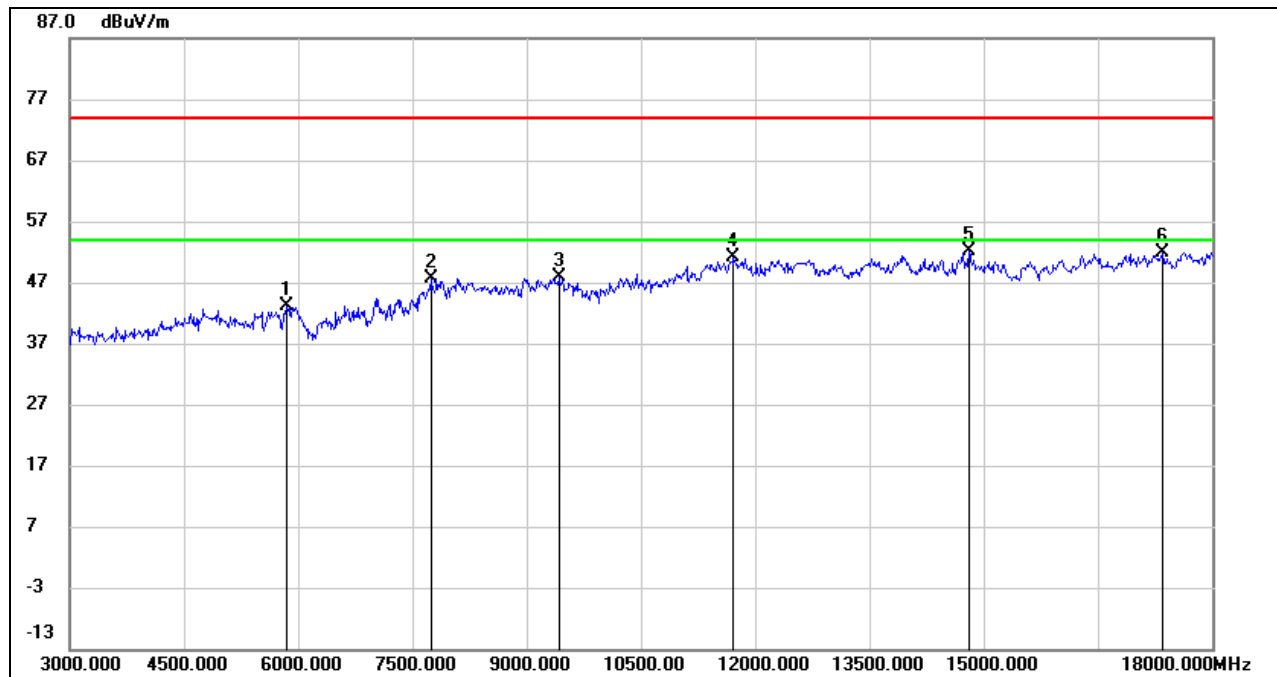
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	41.05	4.16	45.21	74.00	-28.79	peak
2	7770.000	38.12	9.09	47.21	74.00	-26.79	peak
3	8985.000	37.23	10.99	48.22	74.00	-25.78	peak
4	11805.000	36.15	15.26	51.41	74.00	-22.59	peak
5	16500.000	32.31	19.69	52.00	74.00	-22.00	peak
6	17970.000	27.93	24.15	52.08	74.00	-21.92	peak

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

**8.3.6. 802.11ax HE40 MIMO MODE****HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.05	4.00	43.05	74.00	-30.95	peak
2	7740.000	38.93	8.81	47.74	74.00	-26.26	peak
3	9420.000	37.01	10.88	47.89	74.00	-26.11	peak
4	11715.000	35.84	15.34	51.18	74.00	-22.82	peak
5	14805.000	34.18	18.00	52.18	74.00	-21.82	peak
6	17355.000	29.79	22.20	51.99	74.00	-22.01	peak

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

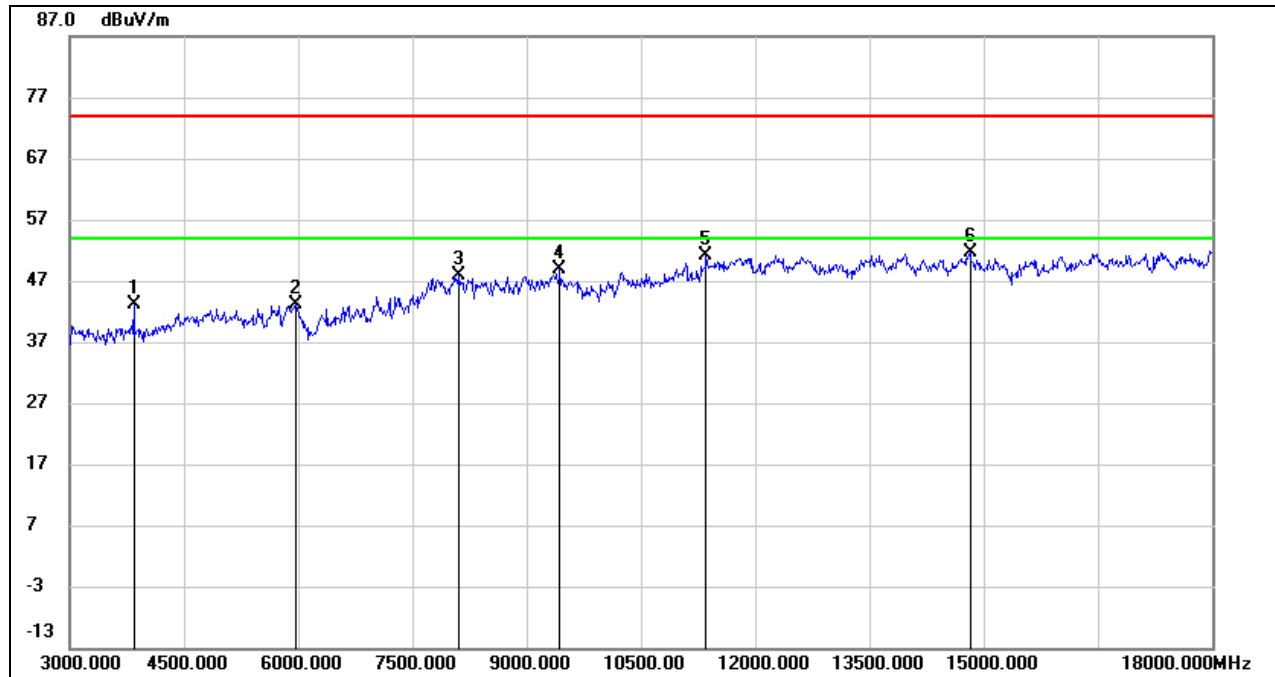
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3840.000	45.70	-2.65	43.05	74.00	-30.95	peak
2	5970.000	38.93	4.15	43.08	74.00	-30.92	peak
3	8115.000	37.77	10.13	47.90	74.00	-26.10	peak
4	9435.000	38.04	10.81	48.85	74.00	-25.15	peak
5	11355.000	36.85	14.34	51.19	74.00	-22.81	peak
6	14820.000	33.79	17.91	51.70	74.00	-22.30	peak

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

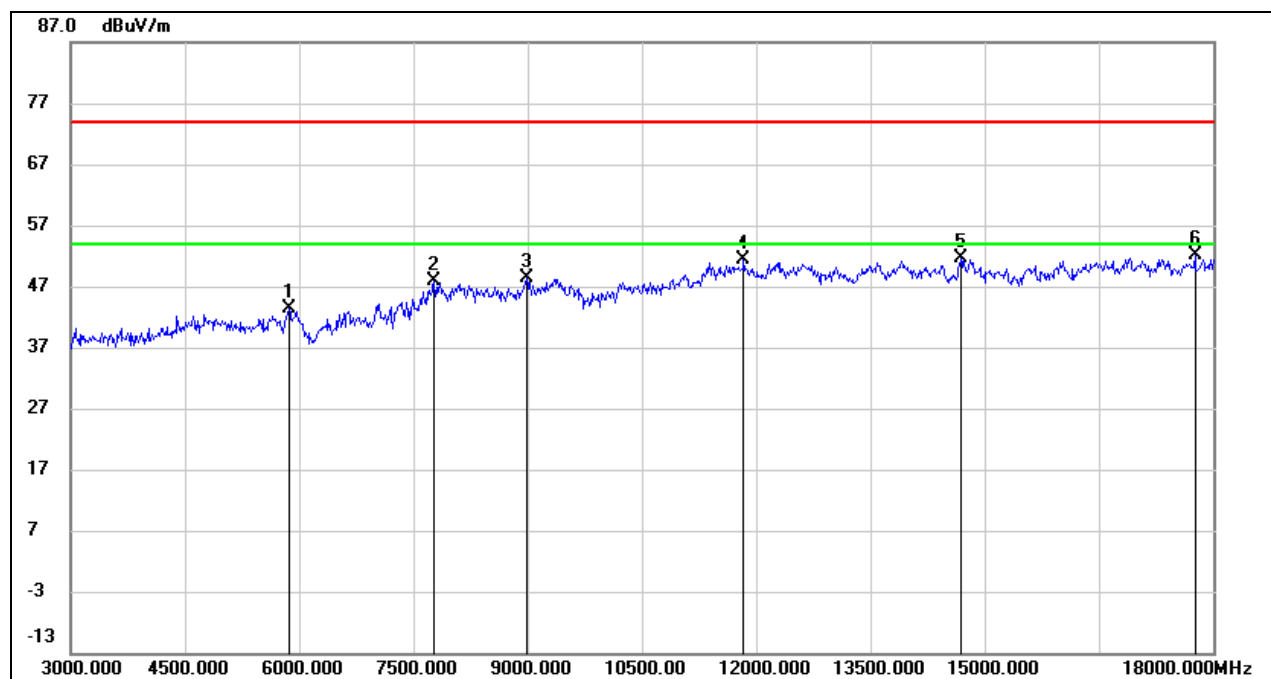
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.33	4.16	43.49	74.00	-30.51	peak
2	7770.000	38.75	9.09	47.84	74.00	-26.16	peak
3	8985.000	37.45	10.99	48.44	74.00	-25.56	peak
4	11835.000	35.99	15.34	51.33	74.00	-22.67	peak
5	14685.000	33.94	17.64	51.58	74.00	-22.42	peak
6	17760.000	28.24	23.82	52.06	74.00	-21.94	peak

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

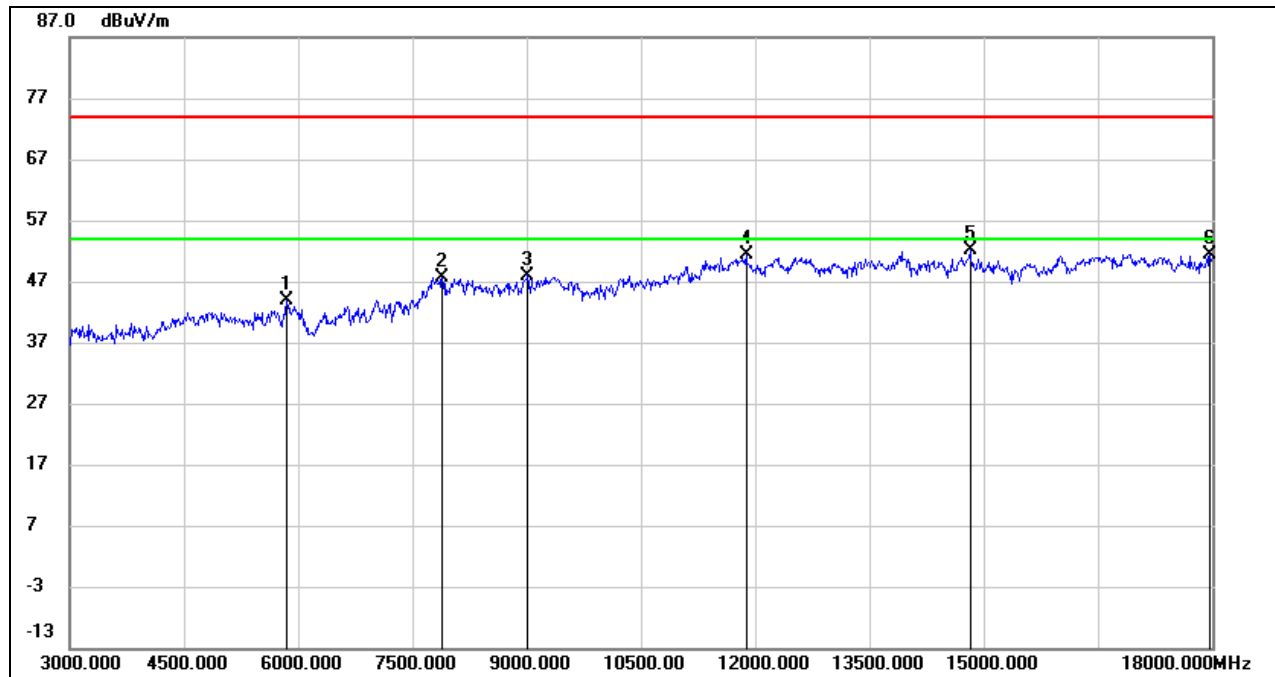
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

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

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.87	4.00	43.87	74.00	-30.13	peak
2	7890.000	38.62	8.91	47.53	74.00	-26.47	peak
3	9015.000	36.90	11.10	48.00	74.00	-26.00	peak
4	11880.000	35.83	15.46	51.29	74.00	-22.71	peak
5	14820.000	34.33	17.91	52.24	74.00	-21.76	peak
6	17970.000	27.26	24.15	51.41	74.00	-22.59	peak

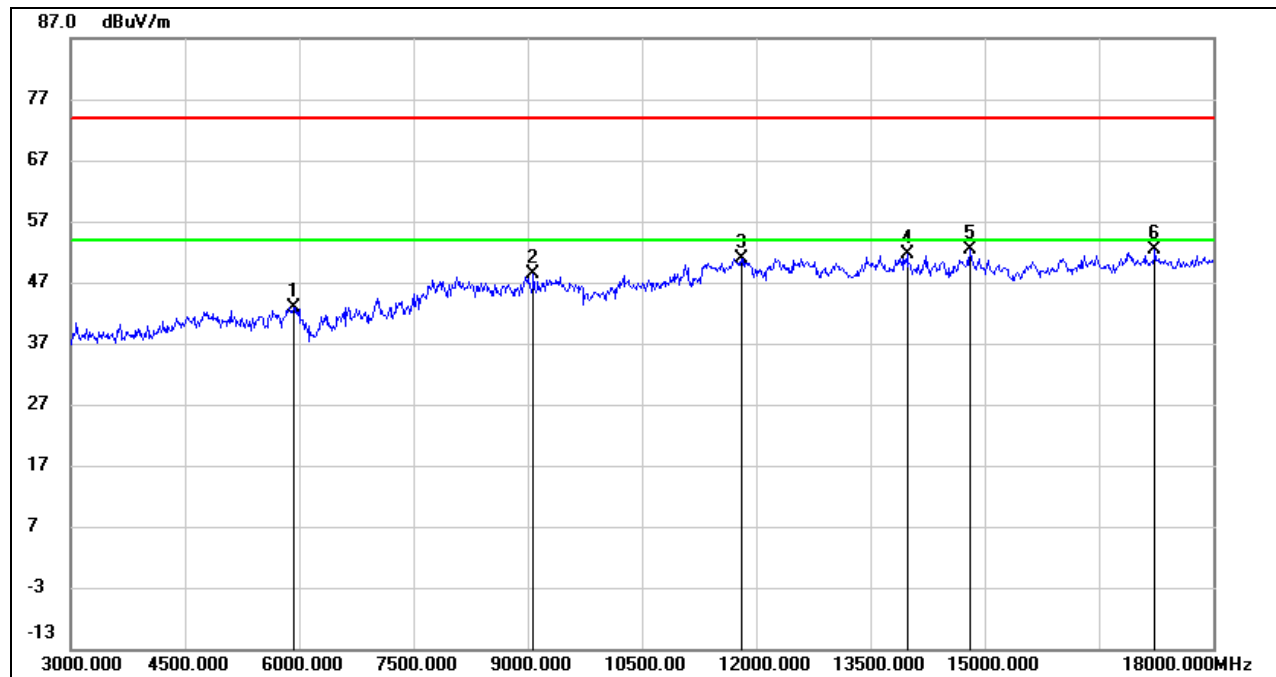
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5925.000	38.50	4.38	42.88	74.00	-31.12	peak
2	9075.000	37.97	10.43	48.40	74.00	-25.60	peak
3	11805.000	35.70	15.26	50.96	74.00	-23.04	peak
4	13980.000	34.11	17.64	51.75	74.00	-22.25	peak
5	14805.000	34.45	18.00	52.45	74.00	-21.55	peak
6	17235.000	30.24	22.21	52.45	74.00	-21.55	peak

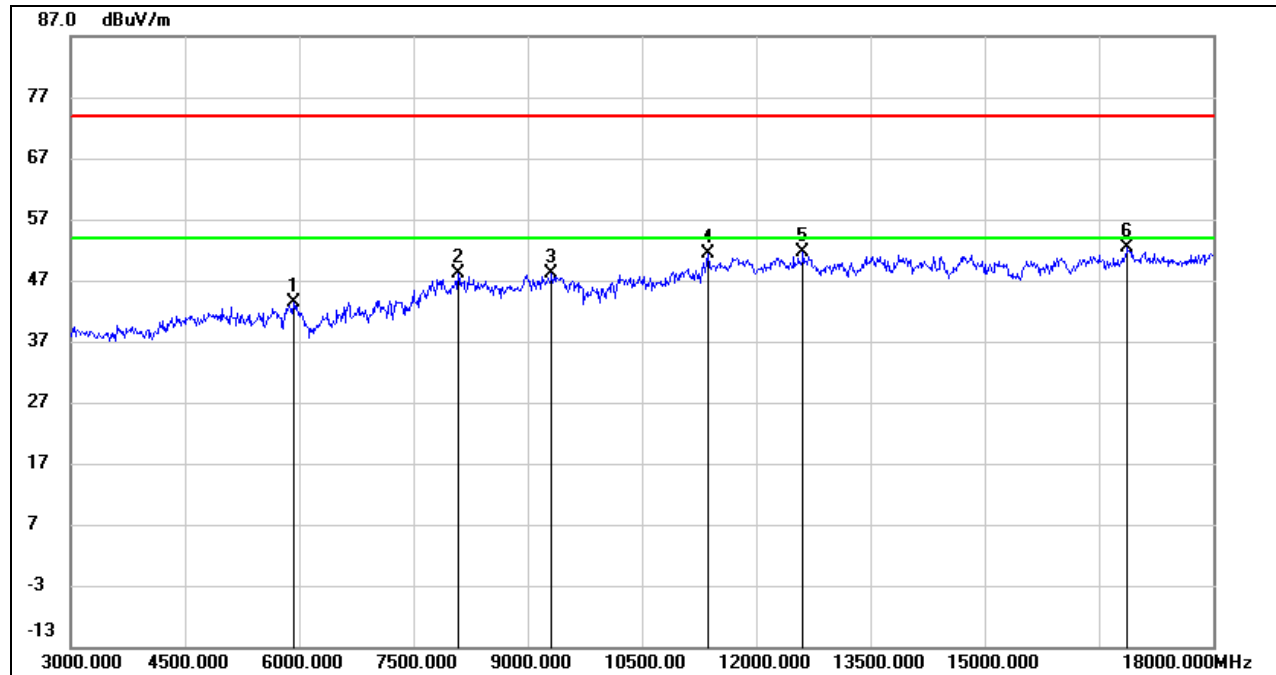
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5925.000	39.09	4.38	43.47	74.00	-30.53	peak
2	8085.000	38.08	9.94	48.02	74.00	-25.98	peak
3	9315.000	37.65	10.48	48.13	74.00	-25.87	peak
4	11370.000	36.78	14.49	51.27	74.00	-22.73	peak
5	12615.000	35.79	15.75	51.54	74.00	-22.46	peak
6	16875.000	30.96	21.35	52.31	74.00	-21.69	peak

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

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

3. Peak: Peak detector.

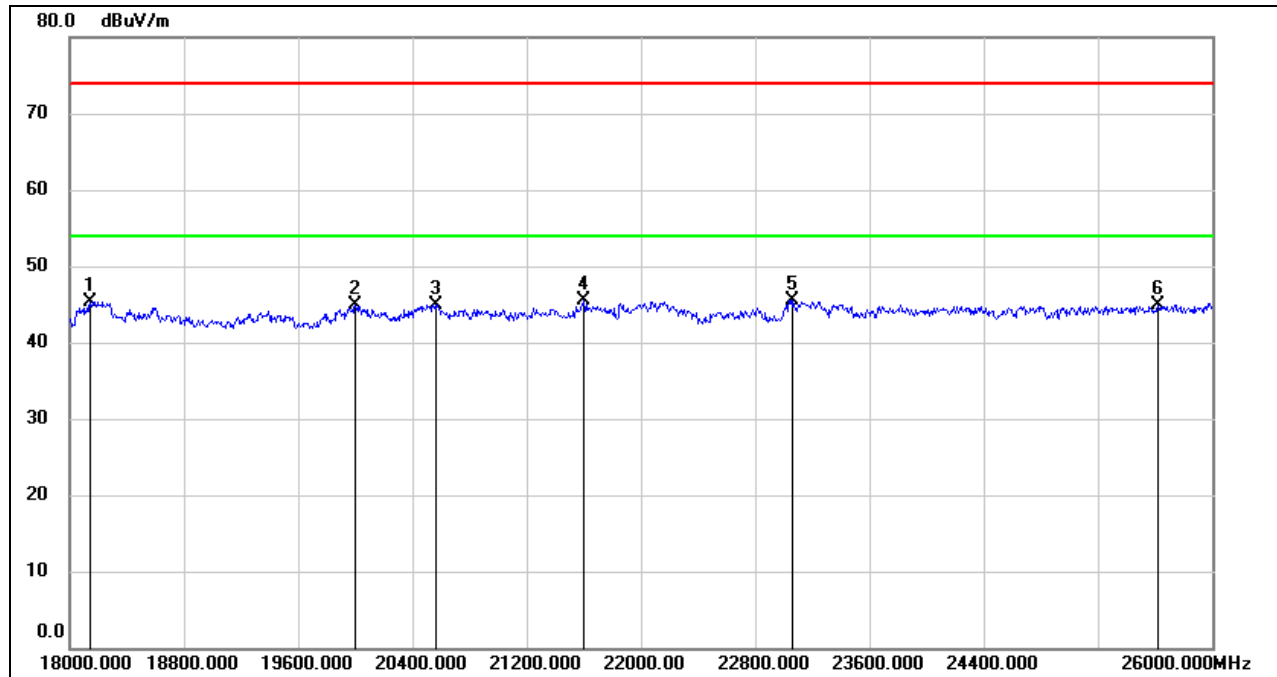
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

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

8.5. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.5.1. 802.11n HT20 MIMO MODE

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



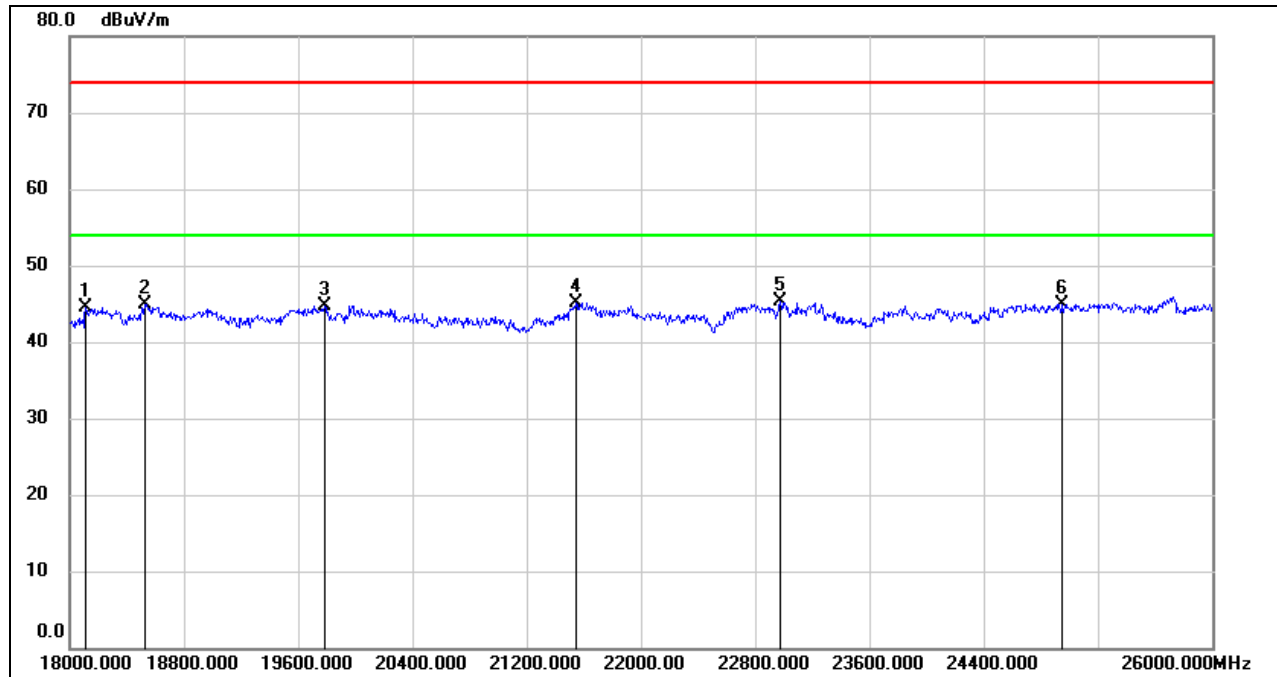
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18144.000	50.77	-5.48	45.29	74.00	-28.71	peak
2	20000.000	50.31	-5.45	44.86	74.00	-29.14	peak
3	20560.000	50.23	-5.30	44.93	74.00	-29.07	peak
4	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
5	23064.000	48.99	-3.42	45.57	74.00	-28.43	peak
6	25616.000	46.18	-1.24	44.94	74.00	-29.06	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.

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18112.000	49.96	-5.47	44.49	74.00	-29.51	peak
2	18528.000	50.11	-5.26	44.85	74.00	-29.15	peak
3	19784.000	50.07	-5.28	44.79	74.00	-29.21	peak
4	21544.000	49.76	-4.63	45.13	74.00	-28.87	peak
5	22976.000	48.76	-3.46	45.30	74.00	-28.70	peak
6	24944.000	47.05	-2.15	44.90	74.00	-29.10	peak

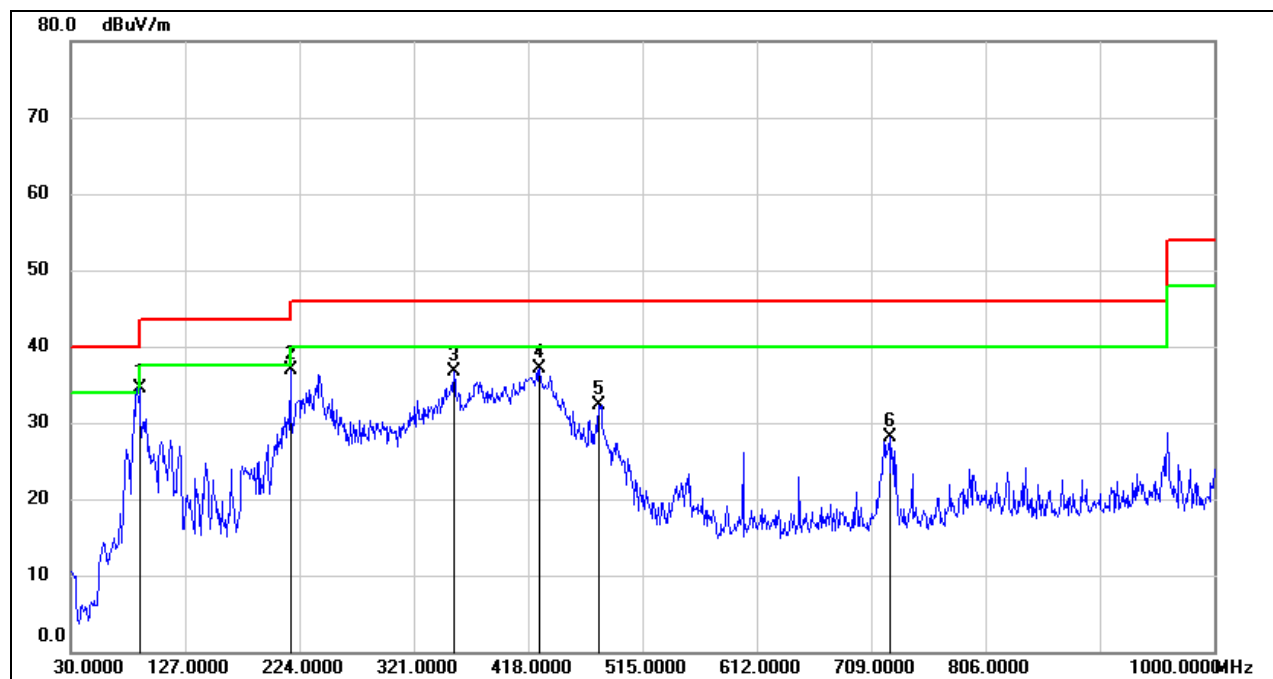
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

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

8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11n HT20 MIMO MODE

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



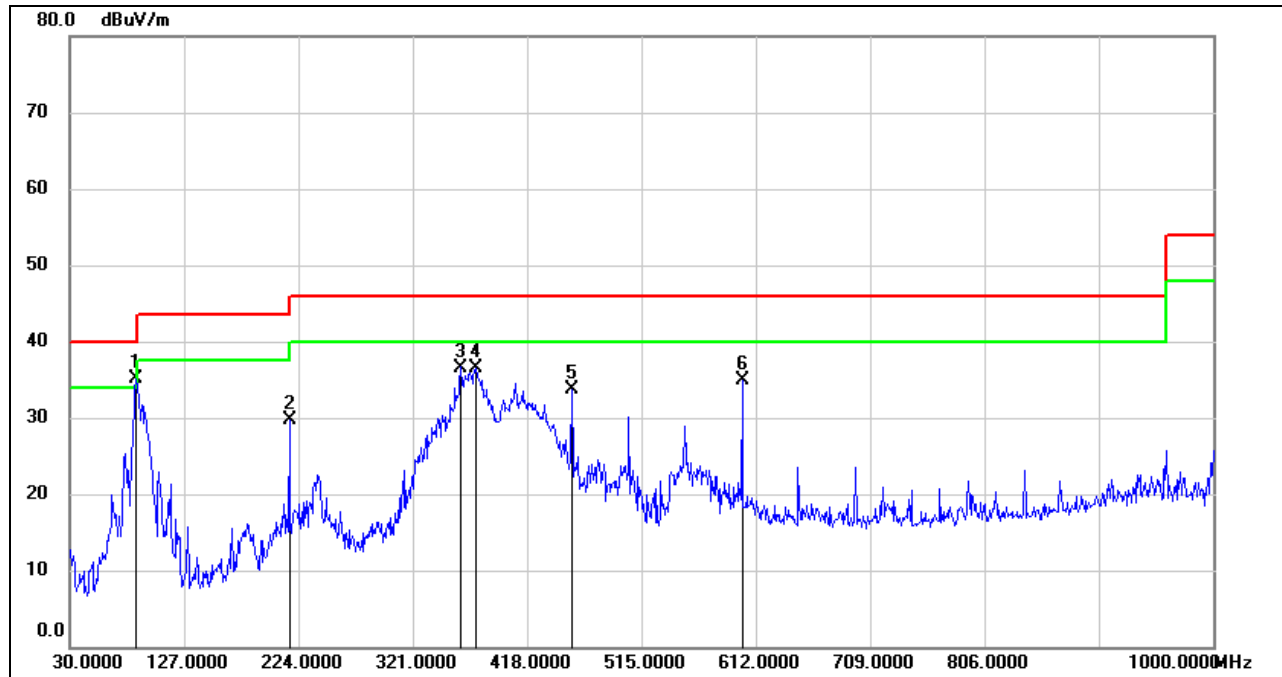
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	88.2000	56.30	-21.85	34.45	43.50	-9.05	QP
2	216.2400	54.77	-17.84	36.93	46.00	-9.07	QP
3	354.9500	50.86	-14.22	36.64	46.00	-9.36	QP
4	427.7000	49.84	-12.78	37.06	46.00	-8.94	QP
5	478.1400	44.23	-11.83	32.40	46.00	-13.60	QP
6	724.5200	36.29	-8.09	28.20	46.00	-17.80	QP

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	86.2600	56.81	-21.75	35.06	40.00	-4.94	QP
2	216.2400	47.57	-17.84	29.73	46.00	-16.27	QP
3	361.7400	50.68	-14.08	36.60	46.00	-9.40	QP
4	374.3500	50.33	-13.82	36.51	46.00	-9.49	QP
5	455.8300	45.90	-12.27	33.63	46.00	-12.37	QP
6	600.3600	44.41	-9.54	34.87	46.00	-11.13	QP

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

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

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

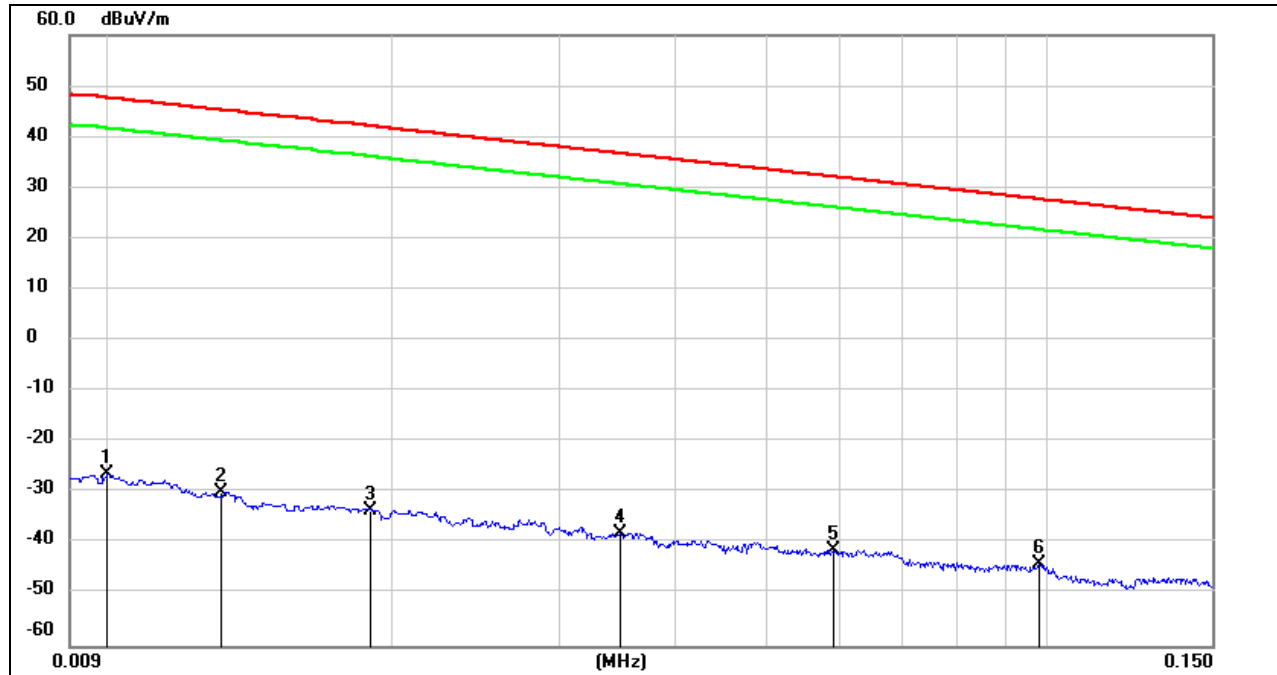
Note: All the modes, channels and antennas had been tested, but only the worst data was recorded in the report.

8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11n HT20 MIMO MODE

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

9 kHz~ 150 kHz

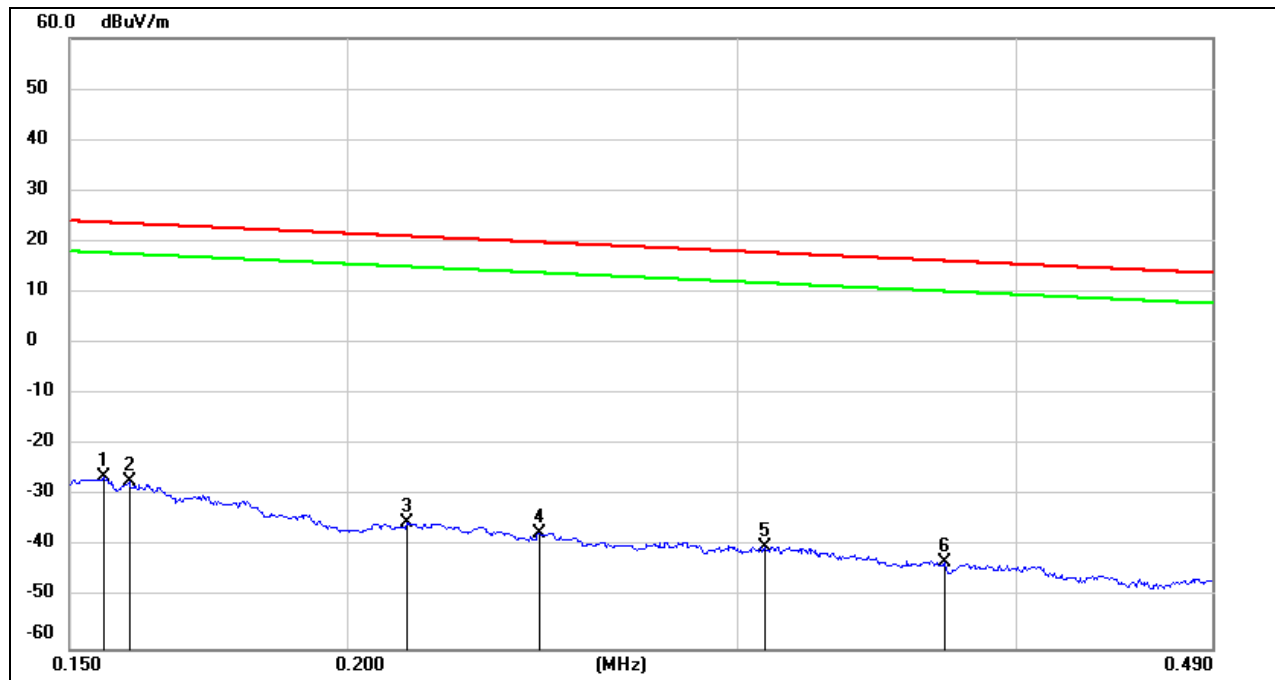


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0100	75.22	-101.40	-26.18	47.6	-77.68	-3.90	-73.78	peak
2	0.0131	71.47	-101.38	-29.91	45.25	-81.41	-6.25	-75.16	peak
3	0.0189	67.99	-101.35	-33.36	42.07	-84.86	-9.43	-75.43	peak
4	0.0349	63.53	-101.41	-37.88	36.75	-89.38	-14.75	-74.63	peak
5	0.0589	60.31	-101.52	-41.21	32.2	-92.71	-19.30	-73.41	peak
6	0.0981	57.77	-101.78	-44.01	27.77	-95.51	-23.73	-71.78	peak

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

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

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

150 kHz ~ 490 kHz

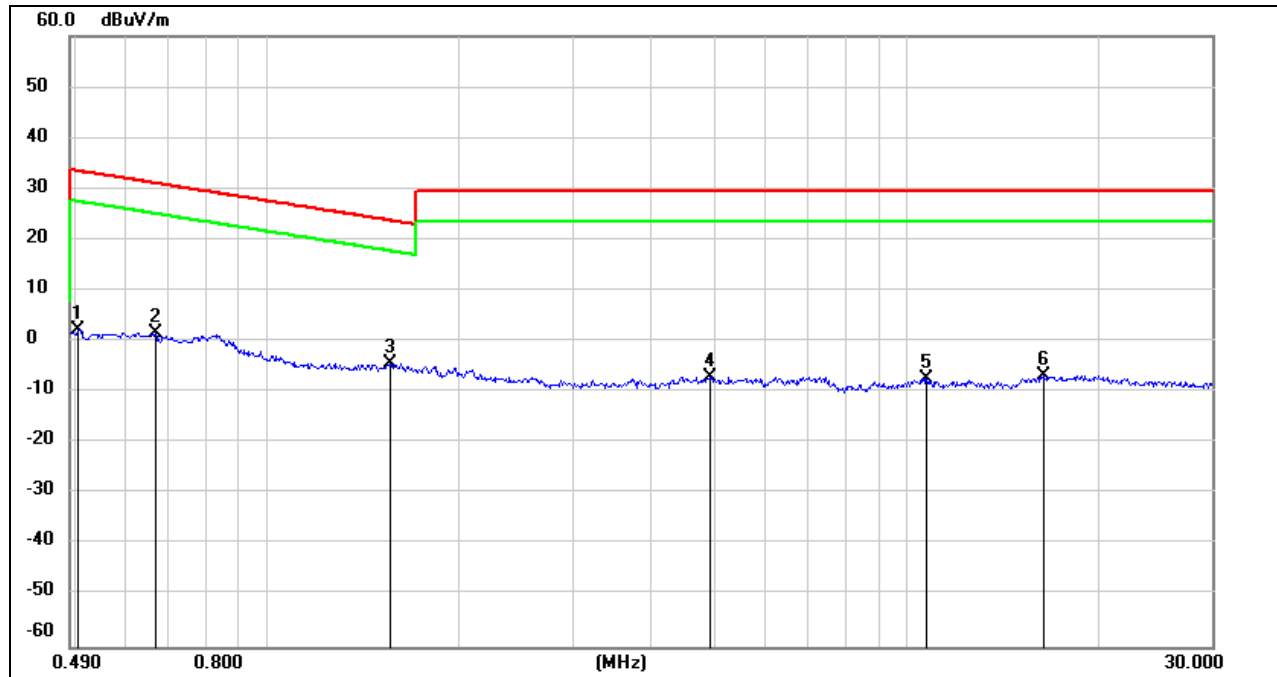
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1554	75.27	-101.65	-26.38	23.77	-77.88	-27.73	-50.15	peak
2	0.1595	74.36	-101.65	-27.29	23.55	-78.79	-27.95	-50.84	peak
3	0.2127	66.45	-101.74	-35.29	21.04	-86.79	-30.46	-56.33	peak
4	0.2442	64.53	-101.79	-37.26	19.85	-88.76	-31.65	-57.11	peak
5	0.3084	61.95	-101.86	-39.91	17.82	-91.41	-33.68	-57.73	peak
6	0.3714	58.78	-101.93	-43.15	16.2	-94.65	-35.30	-59.35	peak

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

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

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

490 kHz ~ 30 MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.5039	64.44	-62.07	2.37	33.56	-49.13	-17.94	-31.19	peak
2	0.6671	63.75	-62.10	1.65	31.12	-49.85	-20.38	-29.47	peak
3	1.5564	57.68	-62.02	-4.34	23.76	-55.84	-27.74	-28.10	peak
4	4.9165	54.38	-61.48	-7.1	29.54	-58.60	-21.96	-36.64	peak
5	10.7299	53.48	-60.83	-7.35	29.54	-58.85	-21.96	-36.89	peak
6	16.3959	54.17	-60.96	-6.79	29.54	-58.29	-21.96	-36.33	peak

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

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

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

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

9. AC POWER LINE CONDUCTED EMISSIONS

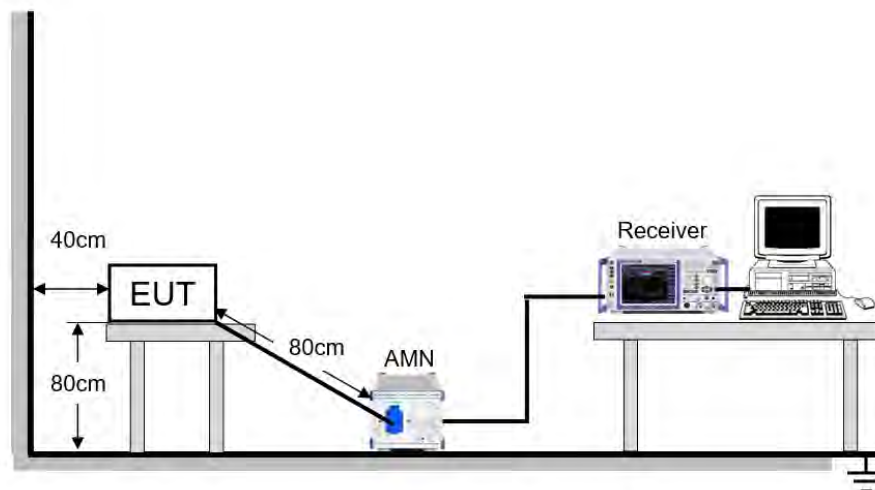
LIMITS

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

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

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



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

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

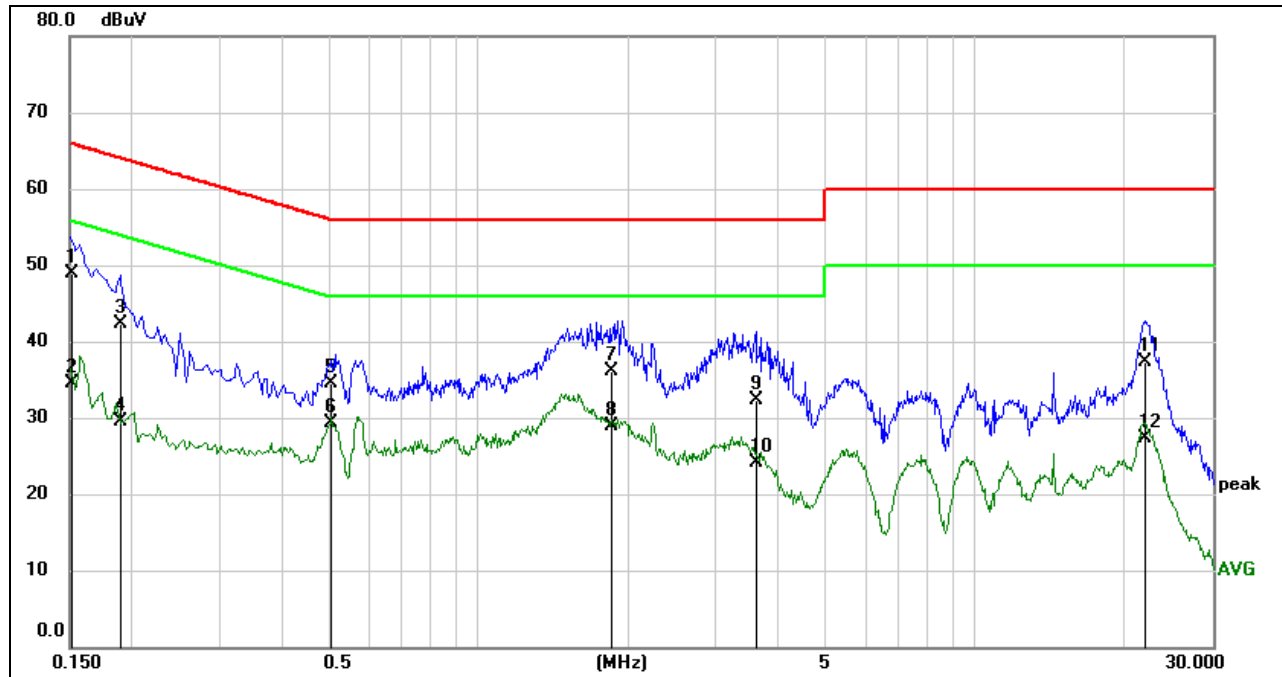
TEST ENVIRONMENT

Temperature	25.7 °C	Relative Humidity	64 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

9.1. 802.11n HT20 MIMO MODE

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1519	39.38	9.59	48.97	65.90	-16.93	QP
2	0.1519	24.98	9.59	34.57	55.90	-21.33	AVG
3	0.1892	32.62	9.59	42.21	64.07	-21.86	QP
4	0.1892	19.96	9.59	29.55	54.07	-24.52	AVG
5	0.5097	24.82	9.60	34.42	56.00	-21.58	QP
6	0.5097	19.69	9.60	29.29	46.00	-16.71	AVG
7	1.8566	26.39	9.62	36.01	56.00	-19.99	QP
8	1.8566	19.21	9.62	28.83	46.00	-17.17	AVG
9	3.6132	22.62	9.61	32.23	56.00	-23.77	QP
10	3.6132	14.59	9.61	24.20	46.00	-21.80	AVG
11	21.9391	27.49	9.76	37.25	60.00	-22.75	QP
12	21.9391	17.64	9.76	27.40	50.00	-22.60	AVG

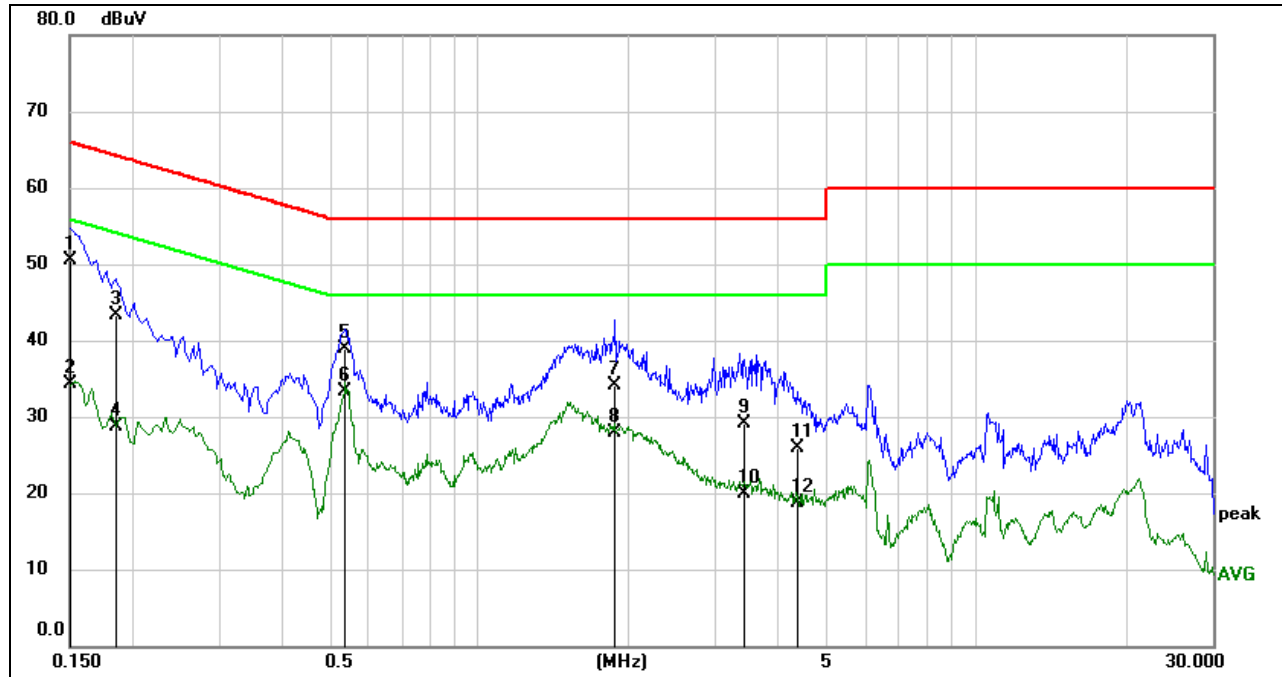
Note: 1. Result = Reading +Correct Factor.

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

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE N RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1507	40.88	9.59	50.47	65.96	-15.49	QP
2	0.1507	24.65	9.59	34.24	55.96	-21.72	AVG
3	0.1857	33.63	9.59	43.22	64.23	-21.01	QP
4	0.1857	19.03	9.59	28.62	54.23	-25.61	AVG
5	0.5391	29.24	9.60	38.84	56.00	-17.16	QP
6	0.5391	23.80	9.60	33.40	46.00	-12.60	AVG
7	1.8926	24.54	9.62	34.16	56.00	-21.84	QP
8	1.8926	18.37	9.62	27.99	46.00	-18.01	AVG
9	3.4108	19.45	9.61	29.06	56.00	-26.94	QP
10	3.4108	10.21	9.61	19.82	46.00	-26.18	AVG
11	4.3588	16.31	9.60	25.91	56.00	-30.09	QP
12	4.3588	9.12	9.60	18.72	46.00	-27.28	AVG

Note: 1. Result = Reading +Correct Factor.

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

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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



10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies



11. Appendix

11.1. Appendix A: DTS Bandwidth

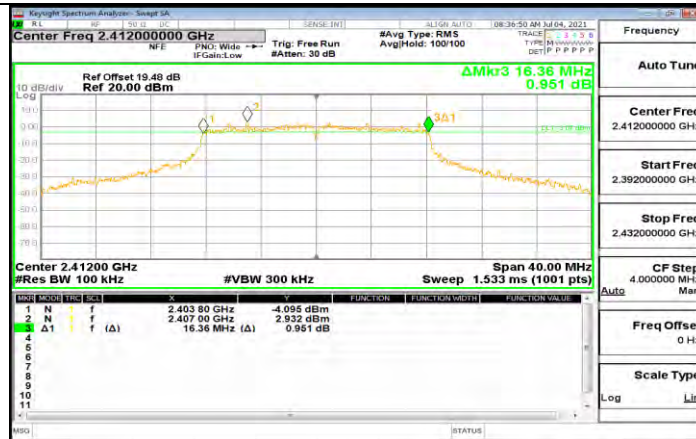
11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	7.680	2407.920	2415.600	0.5	PASS
	Ant1	2412	8.160	2407.920	2416.080	0.5	PASS
	Ant0	2437	7.160	2433.440	2440.600	0.5	PASS
	Ant1	2437	7.640	2433.400	2441.040	0.5	PASS
	Ant0	2462	8.600	2457.440	2466.040	0.5	PASS
	Ant1	2462	7.680	2457.920	2465.600	0.5	PASS
11G	Ant0	2412	16.360	2403.800	2420.160	0.5	PASS
	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
	Ant0	2437	16.120	2429.040	2445.160	0.5	PASS
	Ant1	2437	16.400	2428.800	2445.200	0.5	PASS
	Ant0	2462	16.360	2453.800	2470.160	0.5	PASS
	Ant1	2462	16.400	2453.800	2470.200	0.5	PASS
11N20MIMO	Ant0	2412	17.640	2403.160	2420.800	0.5	PASS
	Ant1	2412	17.360	2403.440	2420.800	0.5	PASS
	Ant0	2437	17.640	2428.160	2445.800	0.5	PASS
	Ant1	2437	17.000	2428.800	2445.800	0.5	PASS
	Ant0	2462	16.960	2453.440	2470.400	0.5	PASS
	Ant1	2462	17.640	2453.160	2470.800	0.5	PASS
11N40MIMO	Ant0	2422	35.200	2404.320	2439.520	0.5	PASS
	Ant1	2422	35.200	2404.320	2439.520	0.5	PASS
	Ant0	2437	35.280	2419.320	2454.600	0.5	PASS
	Ant1	2437	35.200	2419.400	2454.600	0.5	PASS
	Ant0	2452	35.280	2434.320	2469.600	0.5	PASS
	Ant1	2452	35.200	2434.320	2469.520	0.5	PASS
11AX20MIMO	Ant0	2412	18.480	2402.760	2421.240	0.5	PASS
	Ant1	2412	18.720	2402.600	2421.320	0.5	PASS
	Ant0	2437	18.120	2427.720	2445.840	0.5	PASS
	Ant1	2437	18.680	2427.680	2446.360	0.5	PASS
	Ant0	2462	18.680	2452.680	2471.360	0.5	PASS
	Ant1	2462	18.360	2452.720	2471.080	0.5	PASS
11AX40MIMO	Ant0	2422	36.880	2403.200	2440.080	0.5	PASS
	Ant1	2422	37.760	2403.120	2440.880	0.5	PASS
	Ant0	2437	37.520	2418.120	2455.640	0.5	PASS
	Ant1	2437	37.200	2418.440	2455.640	0.5	PASS
	Ant0	2452	37.440	2433.200	2470.640	0.5	PASS
	Ant1	2452	37.760	2433.120	2470.880	0.5	PASS

11.1.2. Test Graphs







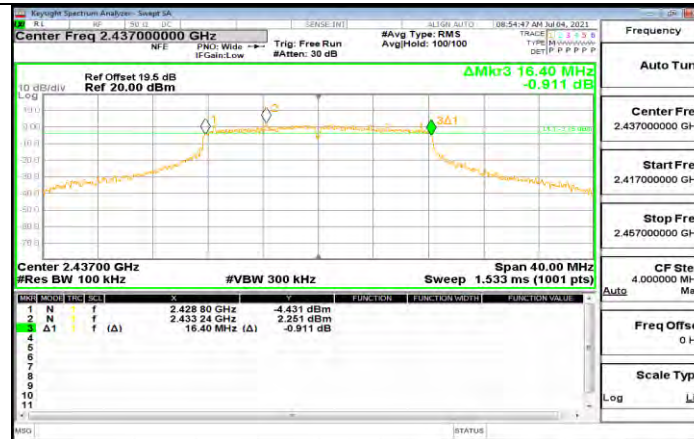
11G Ant1 2412



11G Ant2 2412



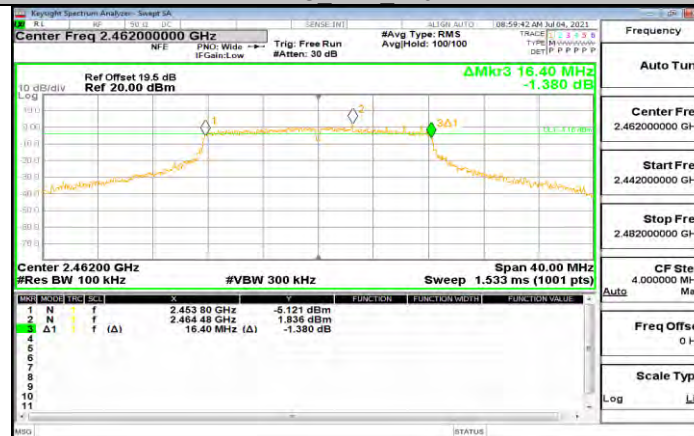
11G Ant1 2437



11G Ant2 2437



11G Ant1 2462



11G Ant2 2462

















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

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant0	2412	12.678	2405.657	2418.335	PASS
	Ant1	2412	12.736	2405.631	2418.367	PASS
	Ant0	2437	12.735	2430.626	2443.361	PASS
	Ant1	2437	12.749	2430.616	2443.365	PASS
	Ant0	2462	12.704	2455.631	2468.335	PASS
	Ant1	2462	12.742	2455.603	2468.345	PASS
11G	Ant0	2412	17.683	2403.108	2420.791	PASS
	Ant1	2412	17.729	2403.048	2420.777	PASS
	Ant0	2437	17.637	2428.184	2445.821	PASS
	Ant1	2437	17.494	2428.157	2445.651	PASS
	Ant0	2462	17.470	2453.188	2470.658	PASS
	Ant1	2462	17.733	2453.083	2470.816	PASS
11N20MIMO	Ant0	2412	18.574	2402.665	2421.239	PASS
	Ant1	2412	18.177	2402.892	2421.069	PASS
	Ant0	2437	18.755	2427.536	2446.291	PASS
	Ant1	2437	18.133	2427.929	2446.062	PASS
	Ant0	2462	18.647	2452.605	2471.252	PASS
	Ant1	2462	18.237	2452.831	2471.068	PASS
11N40MIMO	Ant0	2422	36.017	2403.941	2439.958	PASS
	Ant1	2422	36.080	2403.928	2440.008	PASS
	Ant0	2437	36.072	2418.950	2455.022	PASS
	Ant1	2437	36.023	2418.972	2454.995	PASS
	Ant0	2452	36.084	2433.861	2469.945	PASS
	Ant1	2452	36.065	2433.909	2469.974	PASS
11AX20MIMO	Ant0	2412	19.071	2402.449	2421.520	PASS
	Ant1	2412	19.055	2402.464	2421.519	PASS
	Ant0	2437	19.162	2427.445	2446.607	PASS
	Ant1	2437	19.084	2427.497	2446.581	PASS
	Ant0	2462	19.129	2452.463	2471.592	PASS
	Ant1	2462	19.036	2452.453	2471.489	PASS
11AX40MIMO	Ant0	2422	37.639	2403.224	2440.863	PASS
	Ant1	2422	37.815	2403.184	2440.999	PASS
	Ant0	2437	37.559	2418.264	2455.823	PASS
	Ant1	2437	37.630	2418.241	2455.871	PASS
	Ant0	2452	37.595	2433.264	2470.859	PASS
	Ant1	2452	37.669	2433.245	2470.914	PASS

11.2.2. Test Graphs







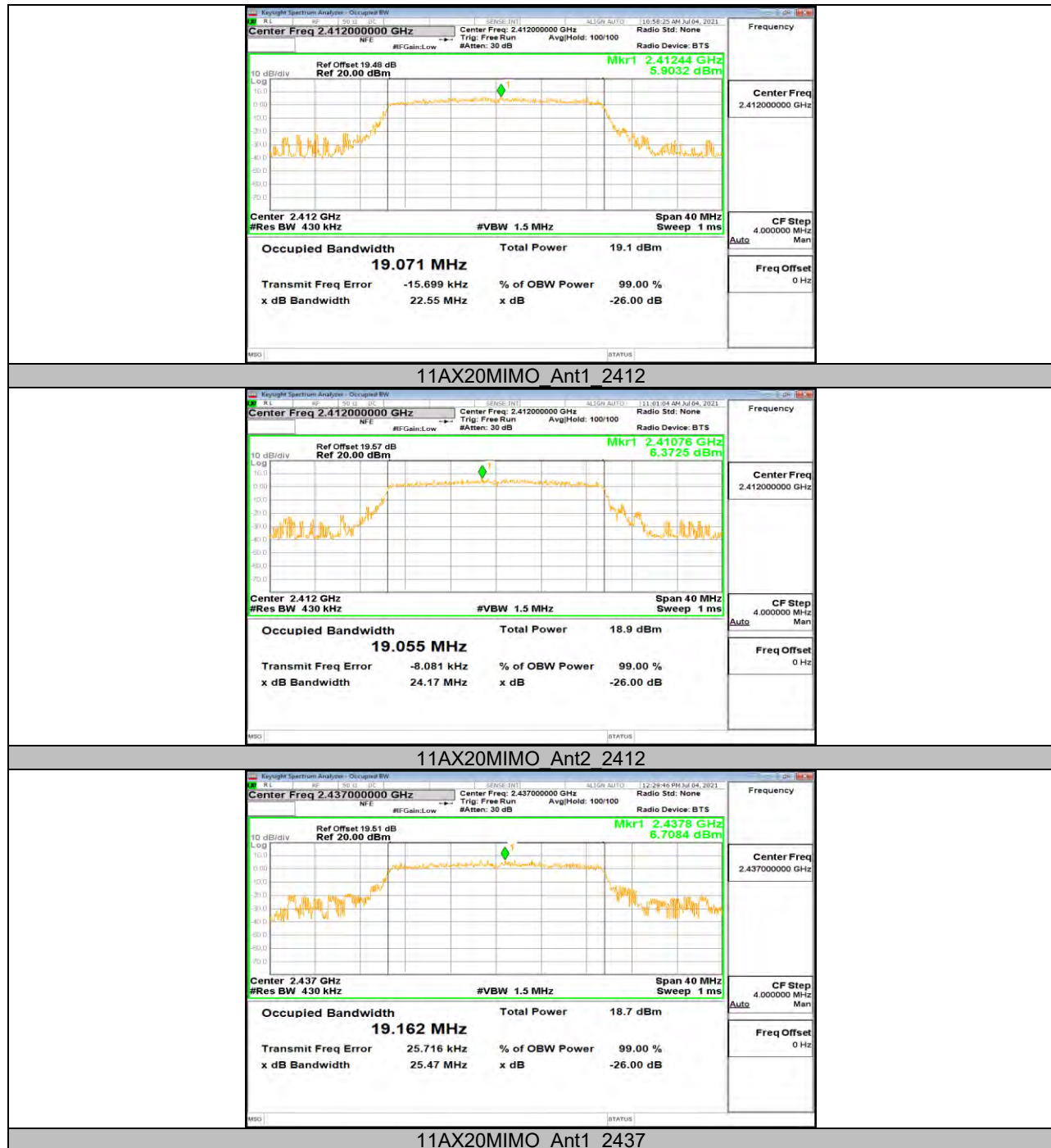


















11.3. Appendix C: Maximum Conducted AVG power

Mode	Freq(MHz)	Conducted AVG Output Power (dBm)			Limit (dBm)
		ANT0	ANT1	Total	
11B	2412	15.22	15.62	/	30
	2437	15.27	15.58	/	30
	2462	15.12	15.42	/	30
11G	2412	15.89	15.91	/	30
	2437	15.67	15.76	/	30
	2462	14.49	14.61	/	30
11N20M MIMO	2412	14.43	14.39	17.42	30
	2437	14.25	14.31	17.29	30
	2462	14.18	14.27	17.24	30
11N40M MIMO	2422	14.18	14.51	17.36	30
	2437	14.16	14.50	17.34	30
	2452	12.86	13.33	16.11	30
11AX20M MIMO	2412	13.55	13.76	16.67	30
	2437	13.44	13.84	16.65	30
	2462	13.39	13.79	16.60	30
11AX40M MIMO	2422	12.18	12.96	15.60	30
	2437	12.31	12.71	15.52	30
	2452	12.29	12.83	15.58	30

Note: 1. Conducted Power=Meas. Level+ Correction Factor

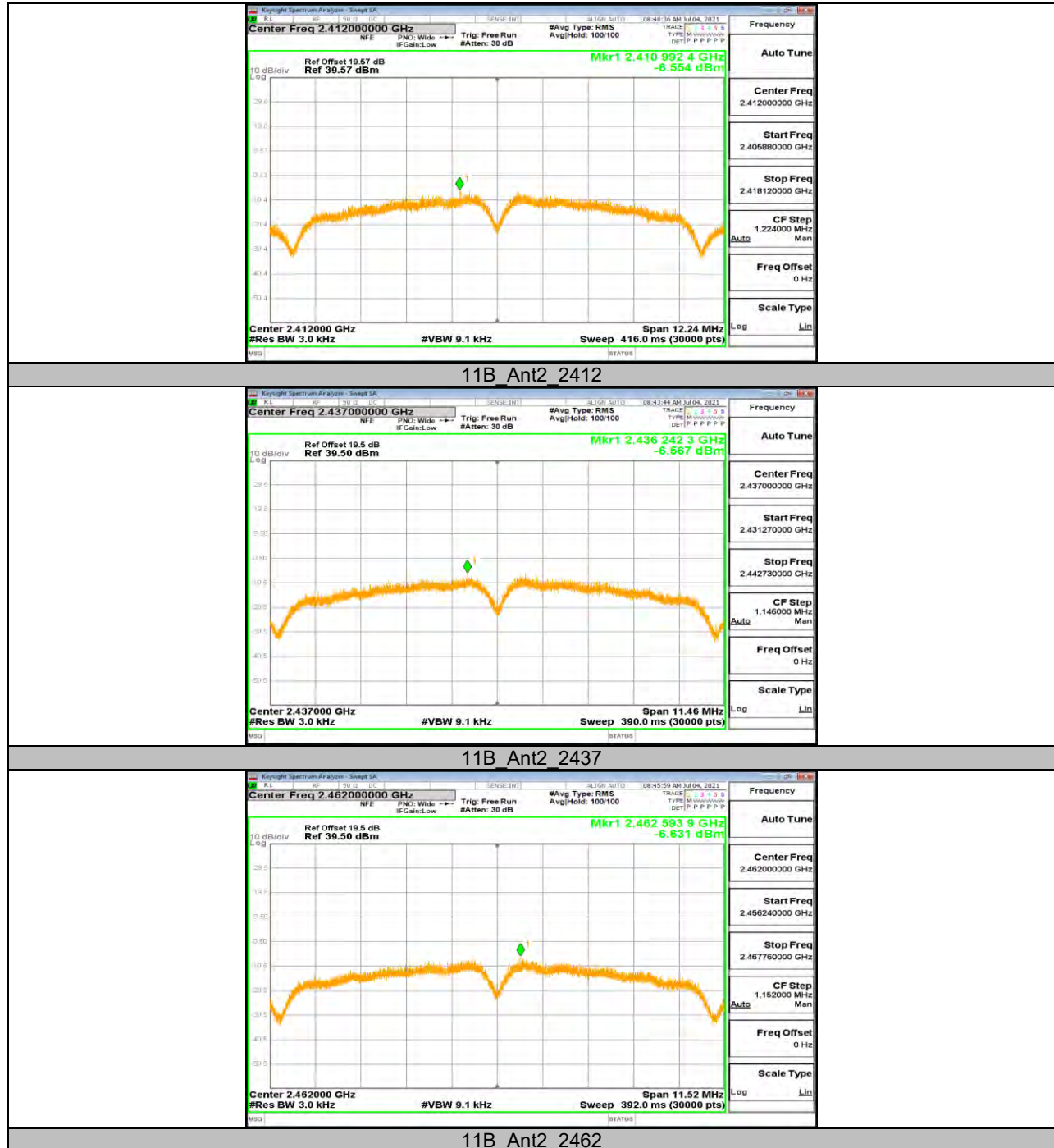
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

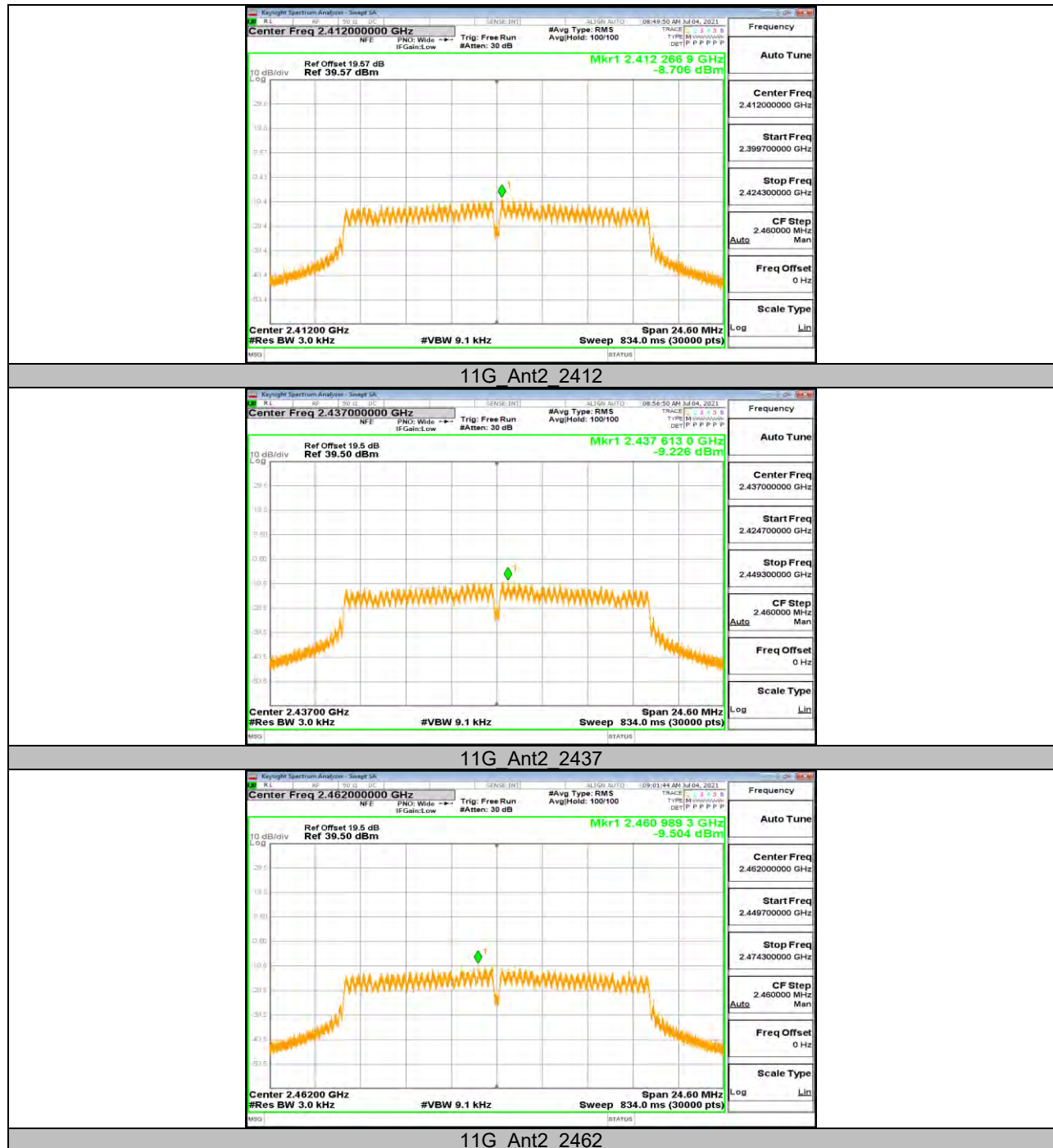
**11.4. Appendix D: Maximum power spectral density****11.4.1. Test Result**

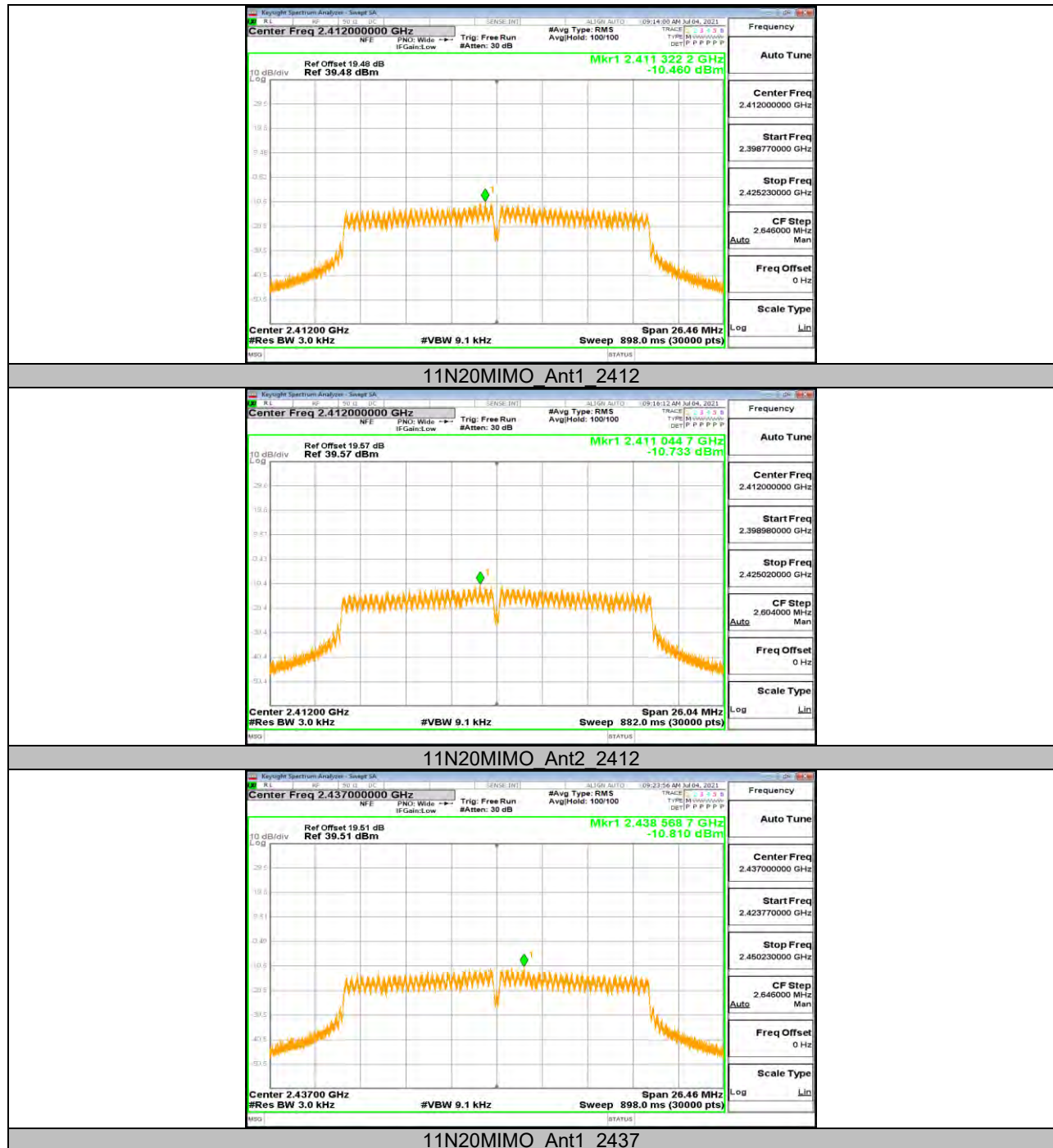
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.55	<=8	PASS
		2437	-6.57	<=8	PASS
		2462	-6.63	<=8	PASS
11G	Ant1	2412	-8.71	<=8	PASS
		2437	-9.23	<=8	PASS
		2462	-9.5	<=8	PASS
11N20MIMO	Ant0	2412	-10.46	<=8	PASS
	Ant1	2412	-10.73	<=8	PASS
	total	2412	-7.58	<=8	PASS
	Ant0	2437	-10.81	<=8	PASS
	Ant1	2437	-10.76	<=8	PASS
	total	2437	-7.77	<=8	PASS
	Ant0	2462	-10.48	<=8	PASS
	Ant1	2462	-10.11	<=8	PASS
	total	2462	-7.28	<=8	PASS
11N40MIMO	Ant0	2422	-13.08	<=8	PASS
	Ant1	2422	-13.37	<=8	PASS
	total	2422	-10.21	<=8	PASS
	Ant0	2437	-13.11	<=8	PASS
	Ant1	2437	-12.24	<=8	PASS
	total	2437	-9.64	<=8	PASS
	Ant0	2452	-14.07	<=8	PASS
	Ant1	2452	-13.87	<=8	PASS
	total	2452	-10.96	<=8	PASS
11AX20MIMO	Ant0	2412	-12.92	<=8	PASS
	Ant1	2412	-13.19	<=8	PASS
	total	2412	-10.04	<=8	PASS
	Ant0	2437	-13.44	<=8	PASS
	Ant1	2437	-13.56	<=8	PASS
	total	2437	-10.49	<=8	PASS
	Ant0	2462	-13.93	<=8	PASS
	Ant1	2462	-13.35	<=8	PASS
	total	2462	-10.62	<=8	PASS
11AX40MIMO	Ant0	2422	-16.11	<=8	PASS
	Ant1	2422	-15.79	<=8	PASS
	total	2422	-12.94	<=8	PASS
	Ant0	2437	-16.39	<=8	PASS
	Ant1	2437	-16.08	<=8	PASS
	total	2437	-13.22	<=8	PASS
	Ant0	2452	-15.9	<=8	PASS
	Ant1	2452	-16.71	<=8	PASS
	total	2452	-13.28	<=8	PASS

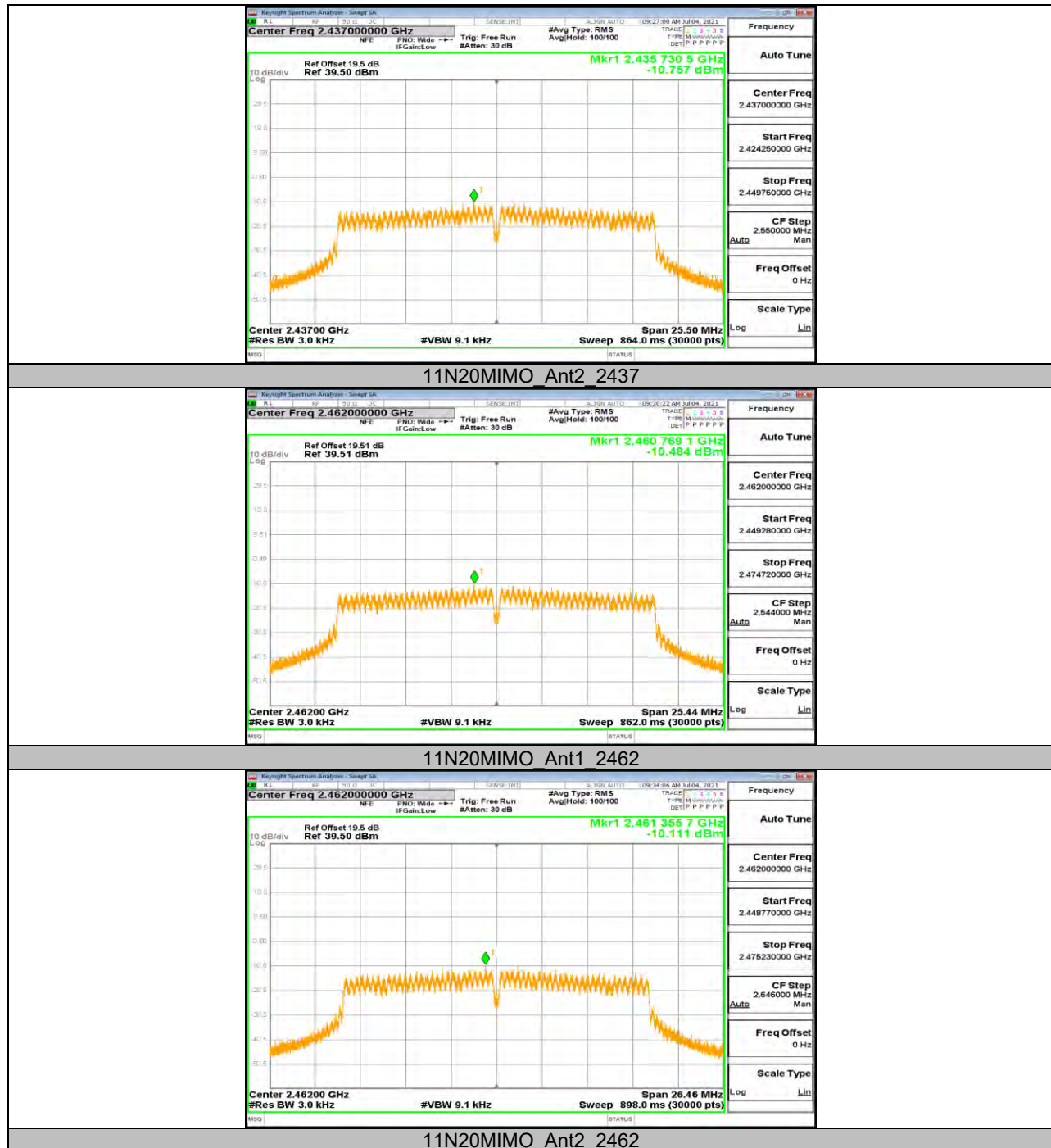


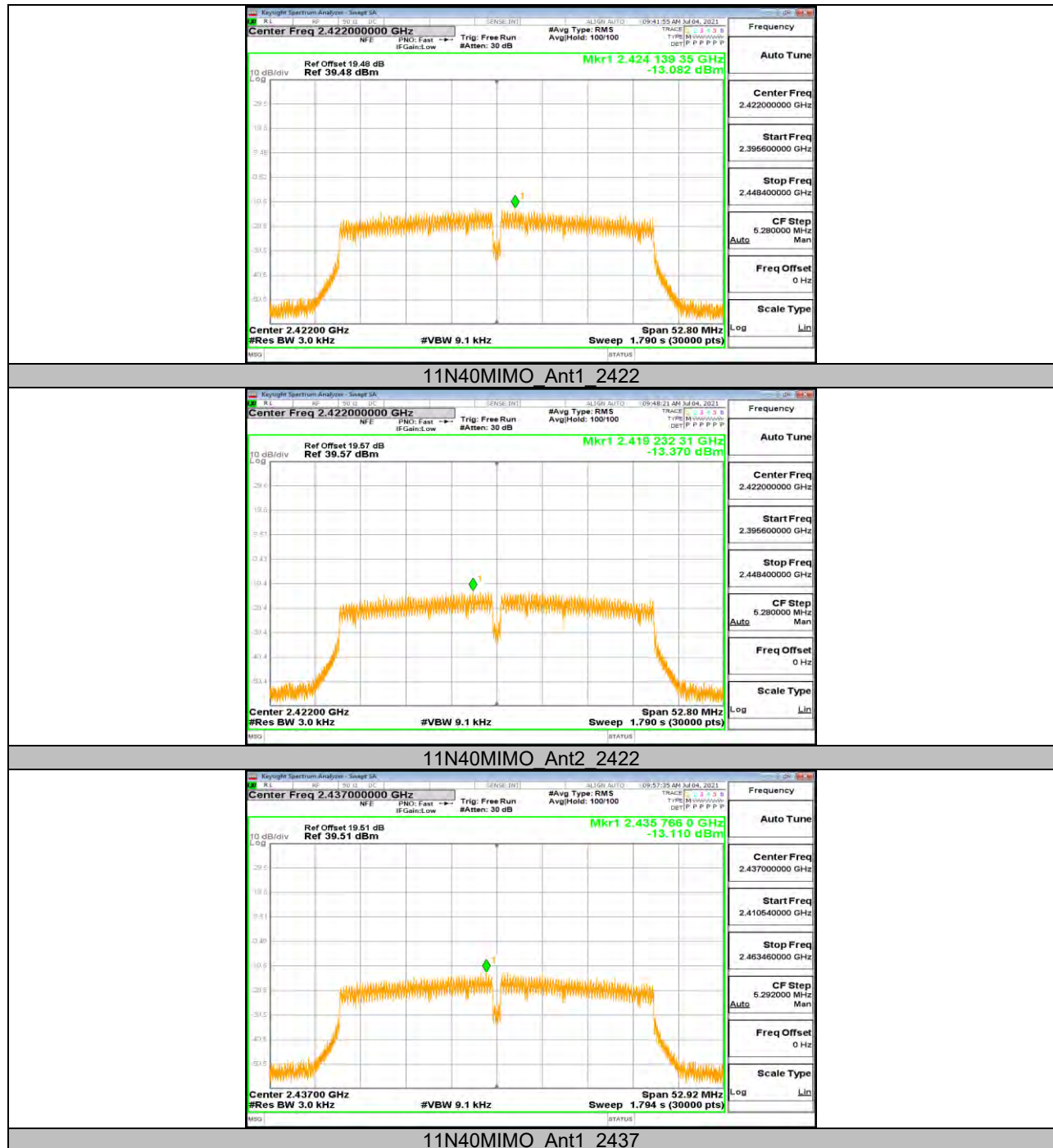
11.4.2. Test Graphs

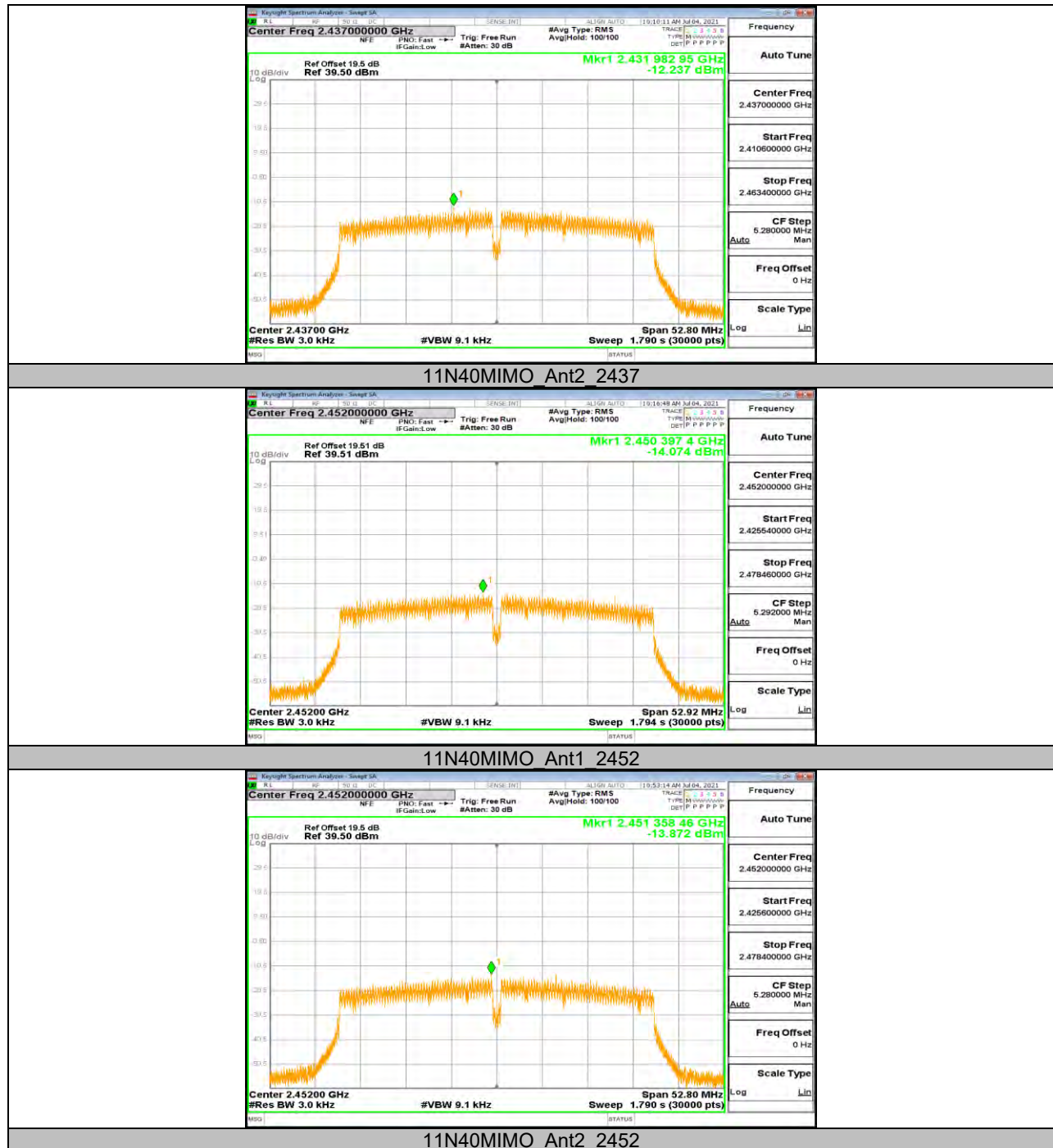


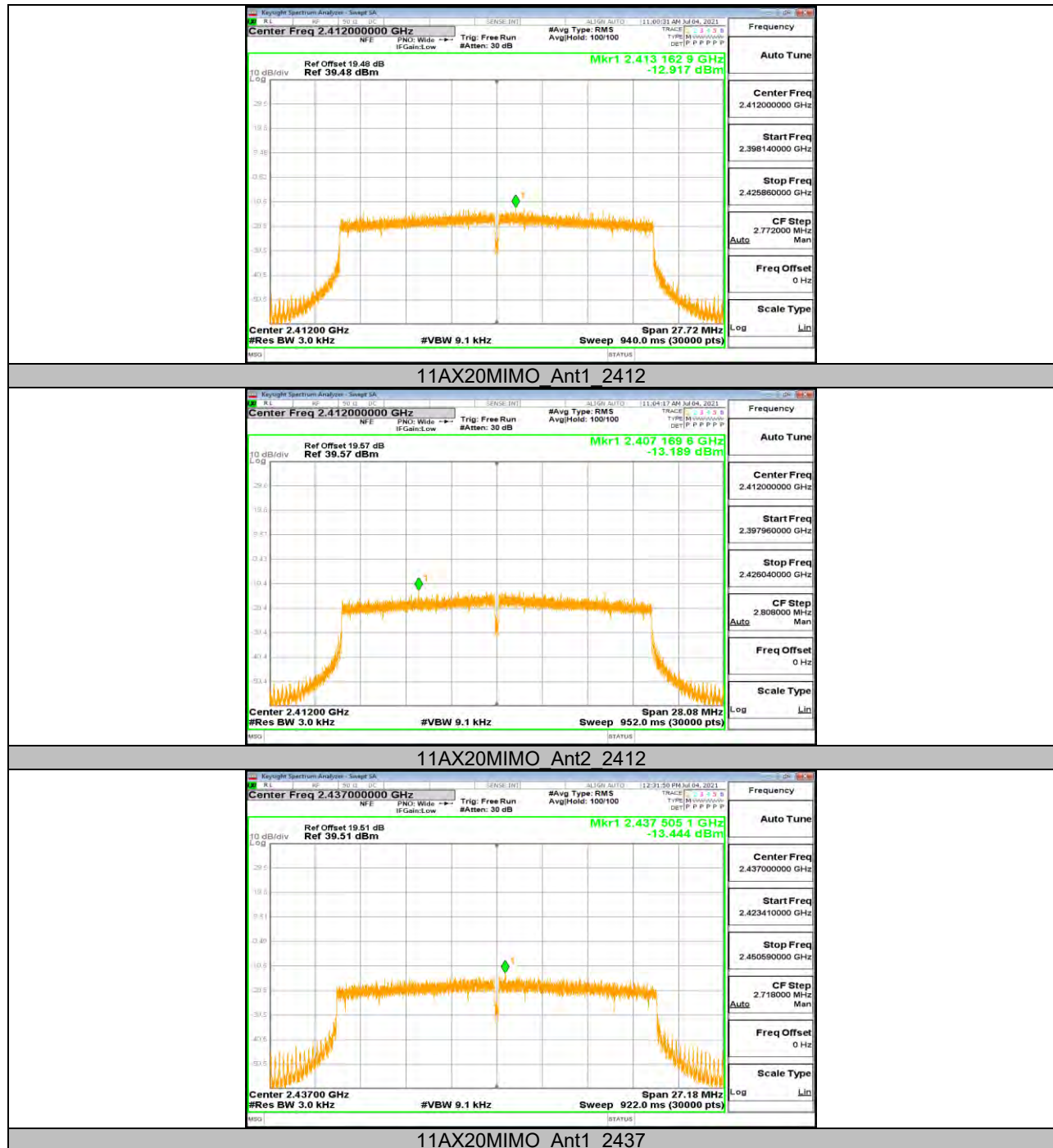


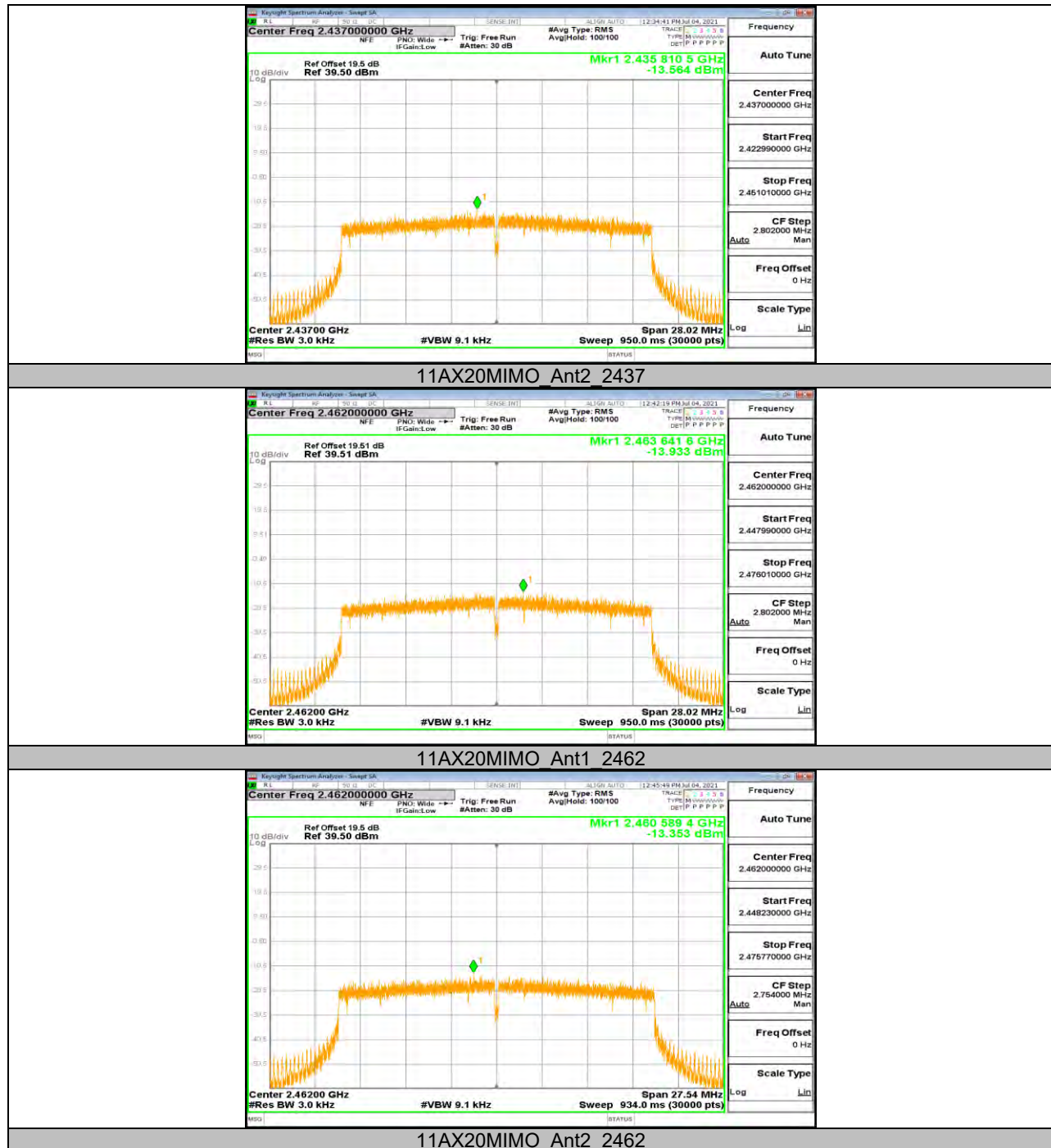
















**11.5. Appendix E: Band edge measurements****11.5.1. Test Result**

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.38	-38.07	<=-23.62	PASS
		High	2462	6.38	-40.37	<=-23.62	PASS
11G	Ant1	Low	2412	4.47	-26.98	<=-25.53	PASS
		High	2462	3.20	-39.98	<=-26.8	PASS
11N20MIMO	Ant0	Low	2412	2.68	-28.54	<=-27.32	PASS
	Ant1	Low	2412	2.87	-28.01	<=-27.13	PASS
	Ant0	High	2462	3.21	-39.59	<=-26.79	PASS
	Ant1	High	2462	2.84	-39.75	<=-27.16	PASS
11N40MIMO	Ant0	Low	2422	0.81	-34.54	<=-29.19	PASS
	Ant1	Low	2422	0.57	-34.55	<=-29.43	PASS
	Ant0	High	2452	-0.44	-36.85	<=-30.44	PASS
	Ant1	High	2452	-0.52	-39.36	<=-30.52	PASS
11AX20MIMO	Ant0	Low	2412	-0.46	-32.64	<=-30.46	PASS
	Ant1	Low	2412	-0.26	-30.26	<=-30.26	PASS
	Ant0	High	2462	0.74	-39.54	<=-29.26	PASS
	Ant1	High	2462	0.36	-39.82	<=-29.64	PASS
11AX40MIMO	Ant0	Low	2422	-1.58	-39.45	<=-31.58	PASS
	Ant1	Low	2422	-1.88	-41.05	<=-31.88	PASS
	Ant0	High	2452	-1.39	-40.17	<=-31.39	PASS
	Ant1	High	2452	-1.82	-39.83	<=-31.82	PASS

11.5.2. Test Graphs



