FCC RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard	**FCC Part 15.247**
FCC ID	**2AUVI-WTR100C**
Brand name	**eLIFE**
Product name	**IR/2.4G RF Convertor**
Model No.	**WTR-100C**
Test Result	**Pass**
Statements of Conformity	**Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.**

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:

Kevin Tsai
Deputy Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 24, 2020	Initial Issue	ALL	May Lin
01	April 23, 2020	See the following note Rev.(01)	P.15-16	Allison Chen

Rev.(01)
1. Added test voltage in section 4.1

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	cloud-sq Technology CO., LTD 8F~21,257, Jianguo road, Xindian, New Taipei City 231, Taiwan, R.O.C.
Equipment	IR/2.4G RF Convertor
Model Name	WTR-100C
Model Discrepancy	N/A
Received Date	September 11, 2019
Date of Test	October 04 ~ 14, 2019
Output Power (W)	IEEE 802.11b mode: 0.0443 IEEE 802.11g mode: 0.0565 IEEE 802.11n HT 20 mode: 0.0490
Power Supply	VDC from Power Adapter Model no: HNT-S510 I/P: 100-240Vac, 50/60Hz, 0.3A O/P: DC 5V, 1A

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1.2 EUT CHANNEL INFORMATION

Frequency Range	2412MHz-2462MHz
Modulation Type	1. IEEE 802.11b Mode: DSSS(DBPSK/DQPSK/CCK) 2. IEEE 802.11g Mode: OFDM (BPSK/QPSK/16QAM/64QAM) 3. IEEE 802.11n HT20 Mode : OFDM (BPSK/QPSK/16QAM/64QAM)
Number of channels	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels

Remark:
Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

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

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☒ PCB ☐ Dipole ☐ Coils
Antenna Gain	Gain: 2 dBi
Antenna Connector	N/A

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1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

***Remark**:*
1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at *No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)*

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	-
Radiation	Dally Hong	-
RF Conducted	Jane Wang	-

Remark: *The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.*

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1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Coaxial Cable	Woken	WC12	CC001	06/28/2019	06/27/2020
Power Meter	Anritsu	ML2495A	1149001	02/12/2019	02/11/2020
Power Seneor	Anritsu	MA2491A	030982	02/12/2019	02/11/2020
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020
Software	N/A				

3M 966 Chamber Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

AC Conducted Emissions Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	100064	07/26/2019	07/25/2020
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

Remark: *Each piece of equipment is scheduled for calibration once a year.*

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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**
	N/A				

Support Equipment					
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**
	N/A				

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074 D01

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2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(2)	4.2	6 dB Bandwidth	Pass
-	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(3)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Spurious Emission	Pass
15.247(d)	4.6	Radiation Band Edge	Pass
15.247(d)	4.6	Radiation Spurious Emission	Pass

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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode: MCS0
Test Channel Frequencies	**IEEE 802.11b mode:** 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz **IEEE 802.11g mode:** 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz **IEEE 802.11n HT20 mode:** 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode :1T1R

Remark:
1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

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3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	**AC Power line conducted emission for line and neutral**
Power supply Mode	**Mode 1: EUT power by Adapter 100-240V** **Mode 2: EUT power by host system**
Worst Mode	☒ **Mode 1** ☐ **Mode 2** ☐ **Mode 3** ☐ **Mode 4**

Radiated Emission Measurement Above 1G	
Test Condition	**Band edge, Emission for Unwanted and Fundamental**
Power supply Mode	**Mode 1: EUT power by Adapter 100-240V** **Mode 2: EUT power by host system**
Worst Mode	☐ **Mode 1** ☒ **Mode 2** ☐ **Mode 3** ☐ **Mode 4**
Worst Position	☐ **Placed in fixed position.** ☒ **Placed in fixed position at X-Plane (E2-Plane)** ☐ **Placed in fixed position at Y-Plane (E1-Plane)** ☐ **Placed in fixed position at Z-Plane (H-Plane)**

Radiated Emission Measurement Below 1G	
Test Condition	**Radiated Emission Below 1G**
Power supply Mode	**Mode 1: EUT power by Adapter 100-240V** **Mode 2: EUT power by host system**
Worst Mode	☐ **Mode 1** ☒ **Mode 2** ☐ **Mode 3** ☐ **Mode 4**

Remark:
1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis, X, Y, Z for radiated measurement. The worst case(X-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

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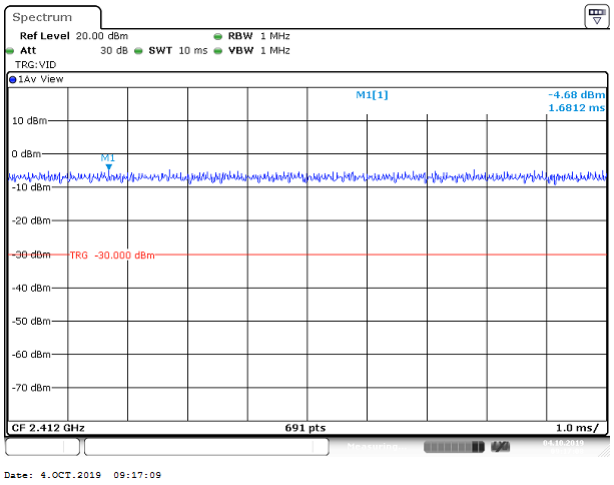
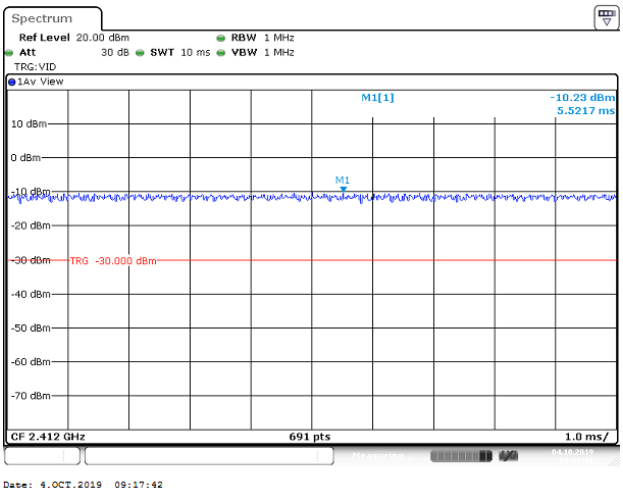
3.3 EUT DUTY CYCLE

Duty Cycle			
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)
802.11b	1.0000	1.0000	100.00%
802.11g	1.0000	1.0000	100.00%
802.11n HT20	1.0000	1.0000	100.00%

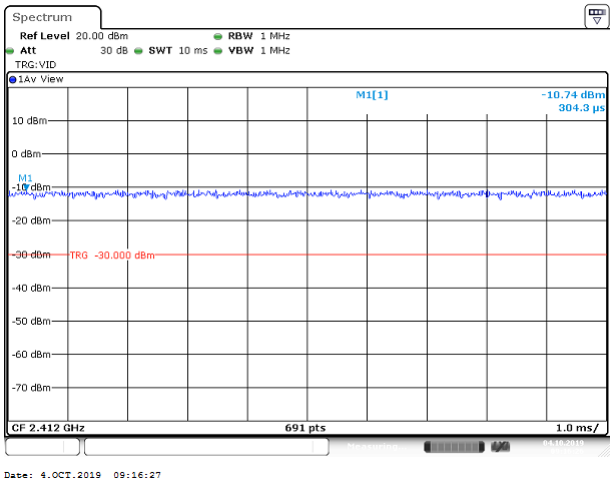
802.11b



802.11g



802.11n HT20



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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2)

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

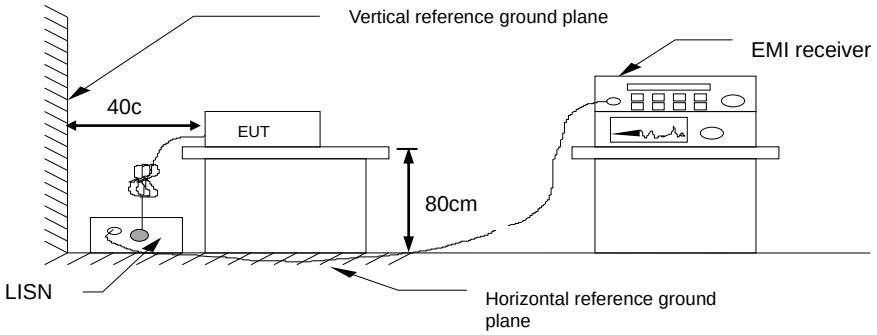
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Pass.

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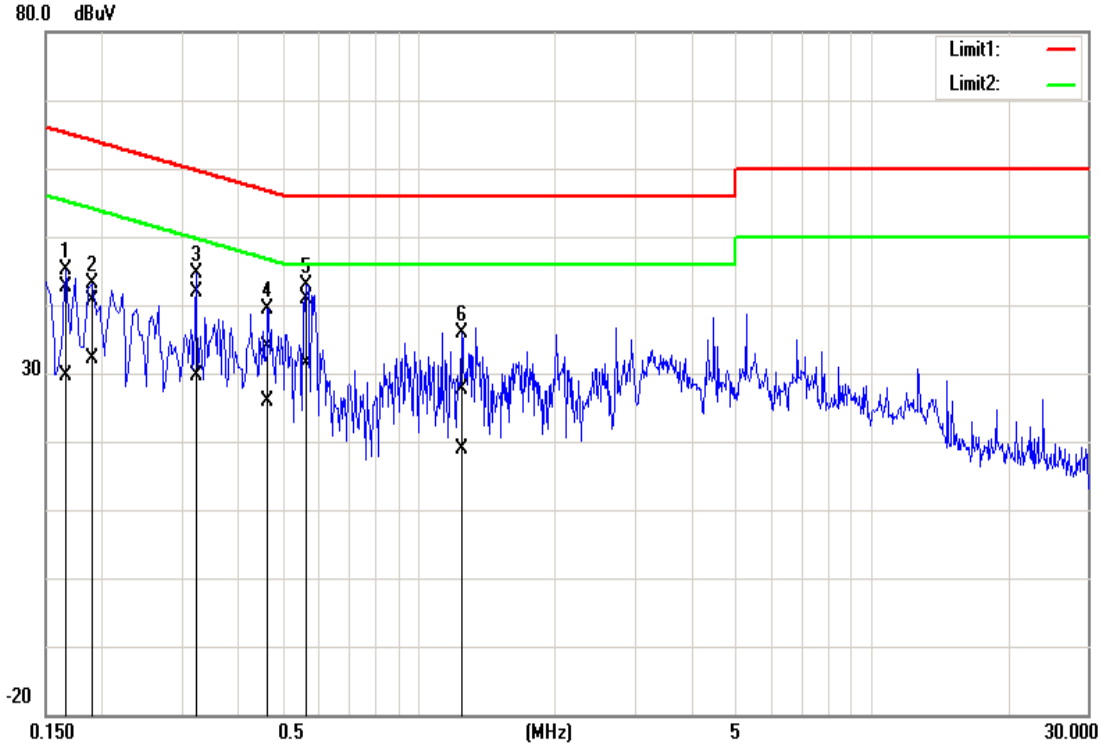
Test Data

Test Mode:	Mode 1	24(℃)/ 50%RH	24(℃)/ 50%RH
Phase:	Line	2019/10/05	2019/10/05
Test Voltage:	120Vac, 60Hz	Dally Hong	Dally Hong



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1660	32.54	19.41	10.14	42.68	29.55	65.16	55.16	-22.48	-25.61
2	0.1900	30.46	22.02	10.13	40.59	32.15	64.04	54.04	-23.45	-21.89
3	0.3220	31.77	19.52	10.14	41.91	29.66	59.66	49.66	-17.75	-20.00
4	0.4660	23.79	15.71	10.14	33.93	25.85	56.58	46.58	-22.65	-20.73
5	0.5660	30.76	21.12	10.15	40.91	31.27	56.00	46.00	-15.09	-14.73
6	1.2460	17.52	8.66	10.17	27.69	18.83	56.00	46.00	-28.31	-27.17

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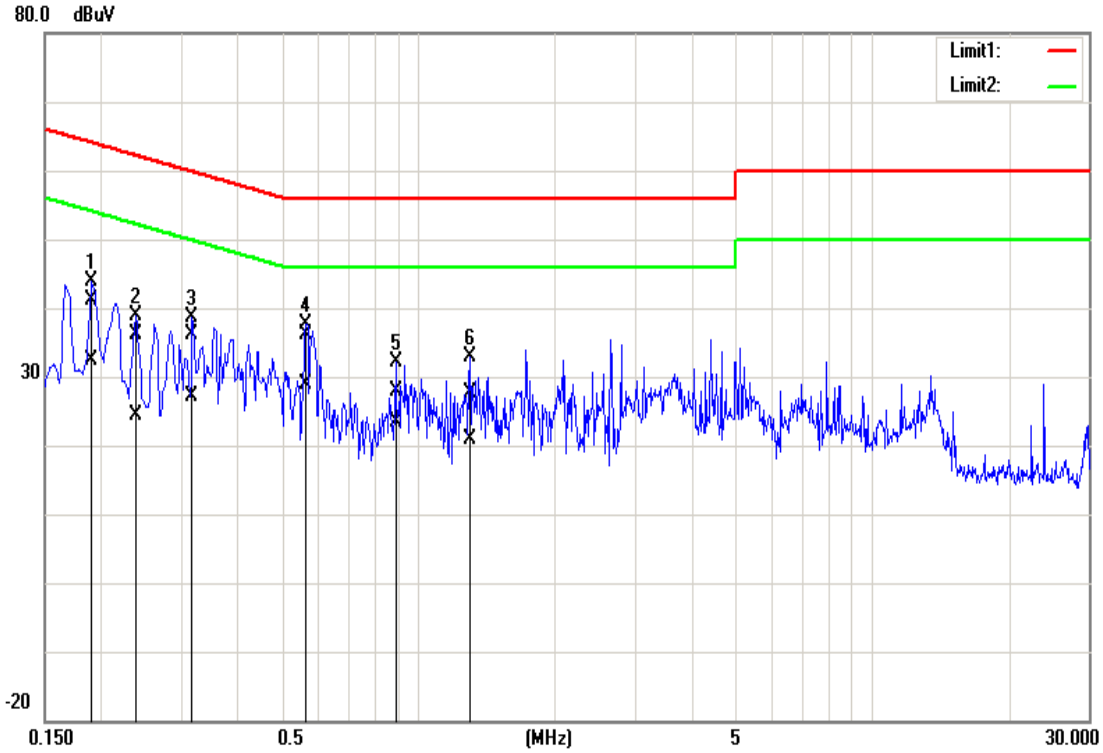
Test Mode:	Mode 1	24(℃)/ 50%RH	24(℃)/ 50%RH
Phase:	Neutral	2019/10/05	2019/10/05
Test Voltage:	120Vac, 60Hz	Dally Hong	Dally Hong



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1900	31.06	22.37	10.02	41.08	32.39	64.04	54.04	-22.96	-21.65
2	0.2380	26.13	14.30	10.02	36.15	24.32	62.17	52.17	-26.02	-27.85
3	0.3180	26.22	17.01	10.03	36.25	27.04	59.76	49.76	-23.51	-22.72
4	0.5660	26.10	18.94	10.03	36.13	28.97	56.00	46.00	-19.87	-17.03
5	0.8940	17.82	13.45	10.04	27.86	23.49	56.00	46.00	-28.14	-22.51
6	1.2980	17.70	10.76	10.04	27.74	20.80	56.00	46.00	-28.26	-25.20

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4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2)

6 dB Bandwidth ：

Limit	Shall be at least 500kHz

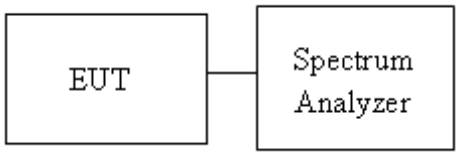
Occupied Bandwidth(99%) ： For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 and ANSI C63.10: 2013 clause 6.9.2,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW =100KHz , VBW = 300KHz and Detector = Peak, to measurement 6dB Bandwidth
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



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4.2.4 Test Result

Test mode: IEEE 802.11b mode / 2412-2462 MHz				
Channel	**Frequency (MHz)**	**OBW (99%) (MHz)**	**6dB BW (MHz)**	**6dB limit (kHz)**
Low	2412	13.1114	10.0435	≥500
Mid	2437	13.1114	10.0435	
High	2462	13.0680	10.0435	

Test mode: IEEE 802.11g mode / 2412-2462 MHz				
Channel	**Frequency (MHz)**	**OBW (99%) (MHz)**	**6dB BW (MHz)**	**6dB limit (kHz)**
Low	2412	16.8451	16.5217	≥500
Mid	2437	16.8885	16.5217	
High	2462	16.8451	16.5217	

Test mode: IEEE 802.11n HT 20 mode / 2412-2462 MHz				
Channel	**Frequency (MHz)**	**OBW (99%) (MHz)**	**6dB BW (MHz)**	**6dB limit (kHz)**
Low	2412	17.5832	17.7391	≥500
Mid	2437	17.5832	17.6957	
High	2462	17.5832	17.6957	

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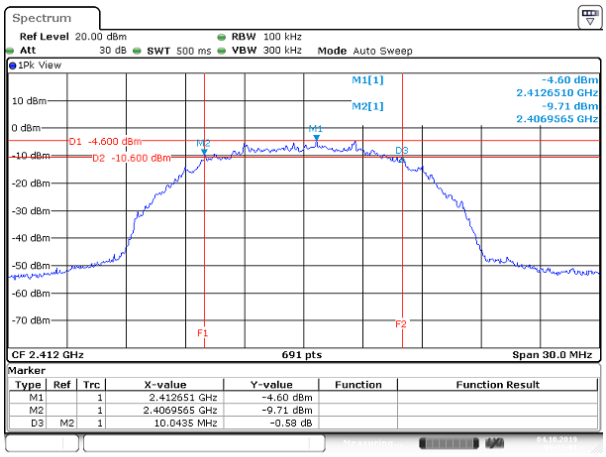
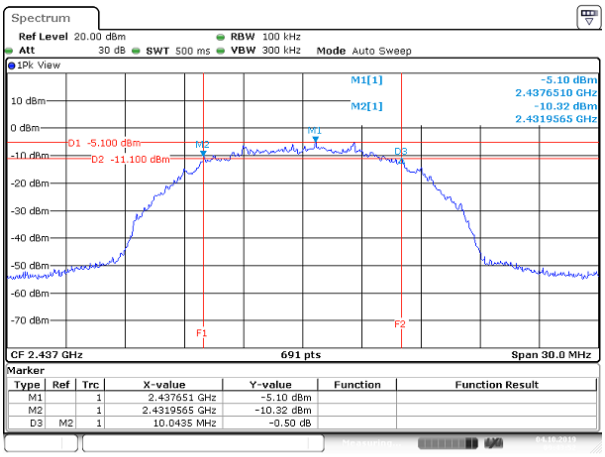
Test Data (6dB BANDWIDTH)

IEEE 802.11b mode

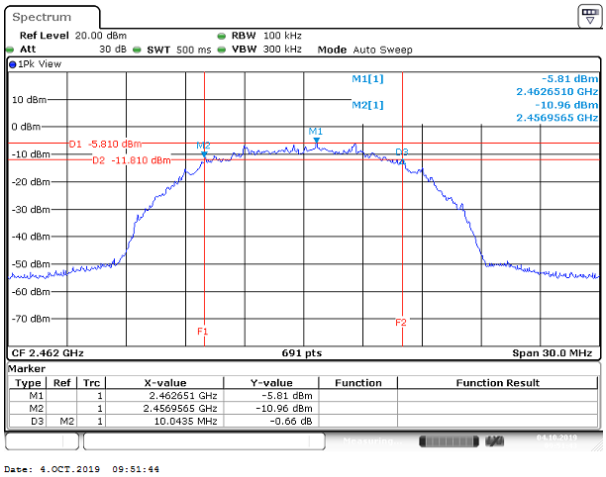
Low CH



Mid CH



High CH



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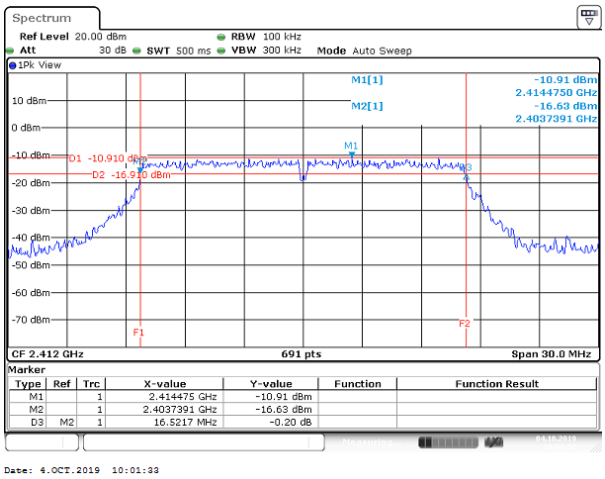
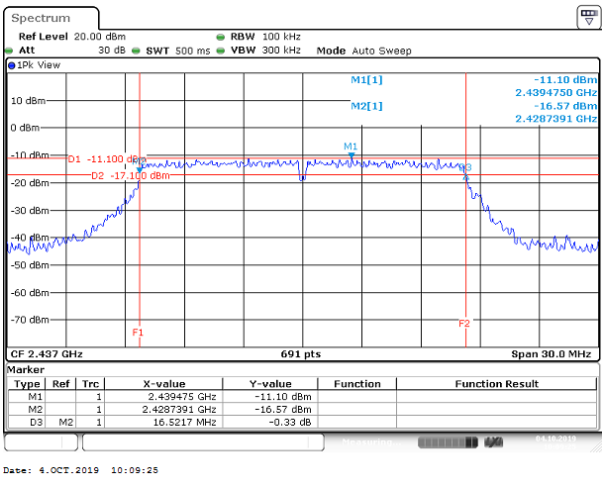
IEEE 802.11g mode

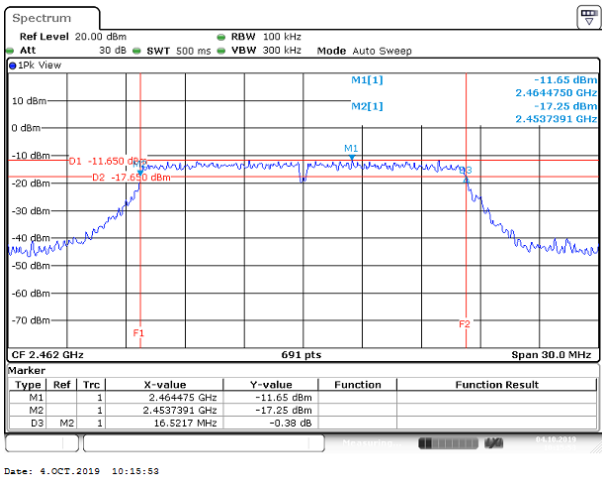
Low CH



Mid CH



High CH



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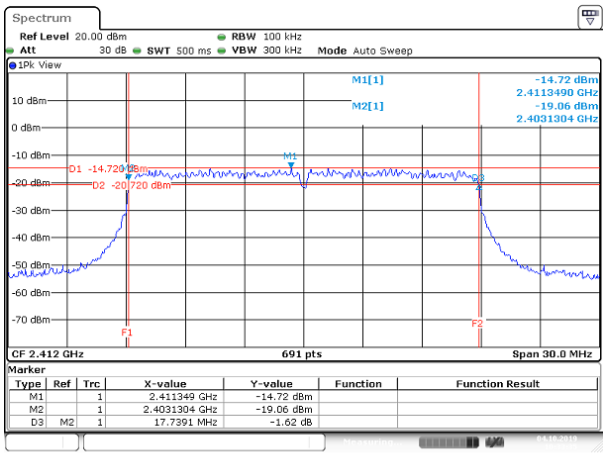
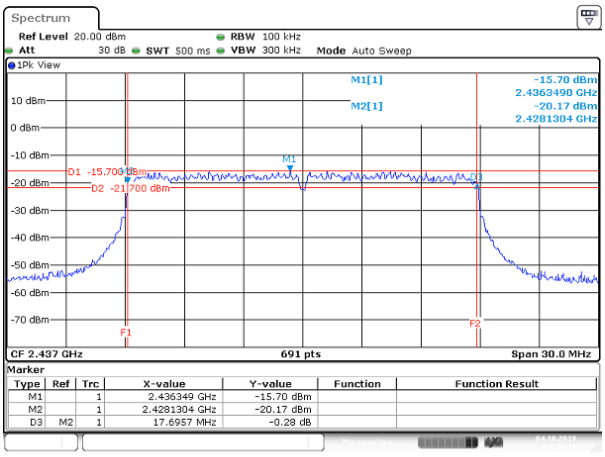
IEEE 802.11n HT20 mode

Low CH



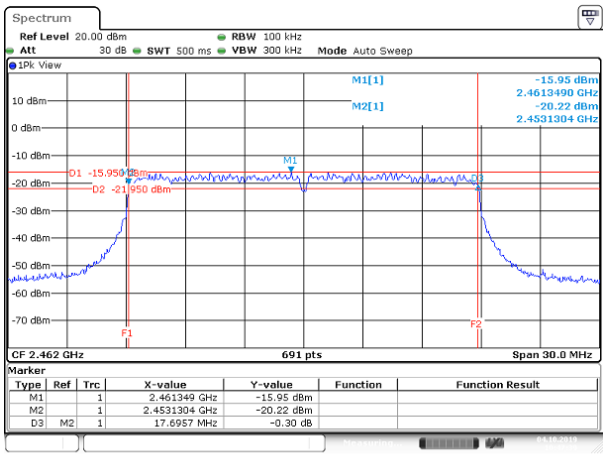
Date: 4.OCT.2019 10:33:36

Mid CH



Date: 4.OCT.2019 10:40:12

High CH



Date: 4.OCT.2019 10:47:40

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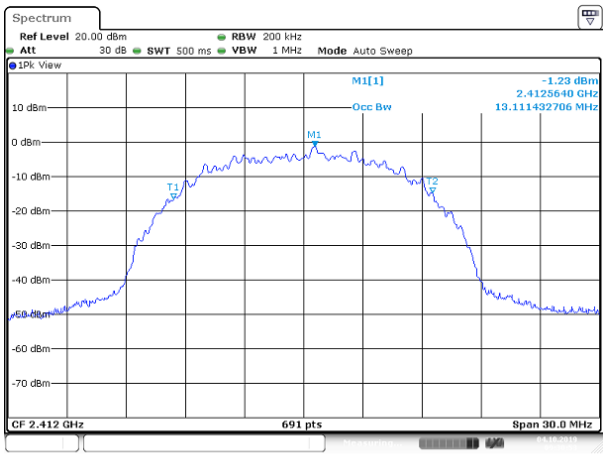
Test Data (BANDWIDTH 99%)

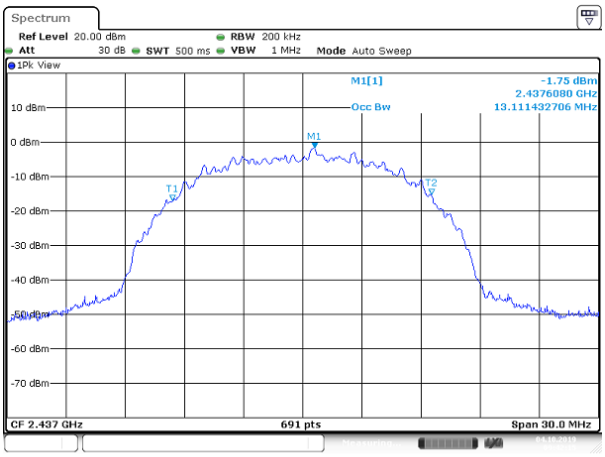
IEEE 802.11b mode

Low CH



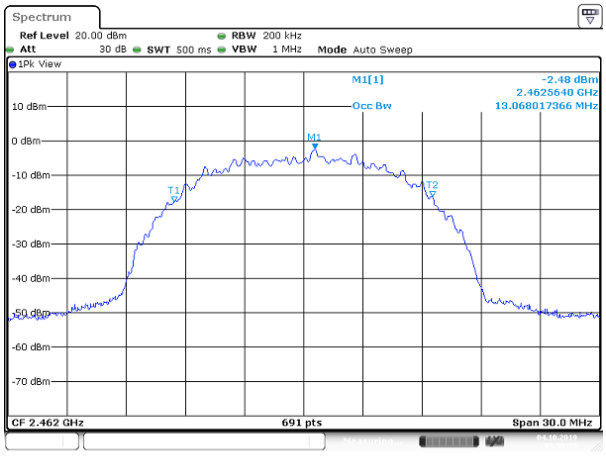
Date: 4.OCT.2019 09:30:54

Mid CH



Date: 4.OCT.2019 09:42:16

High CH



Date: 4.OCT.2019 09:50:39

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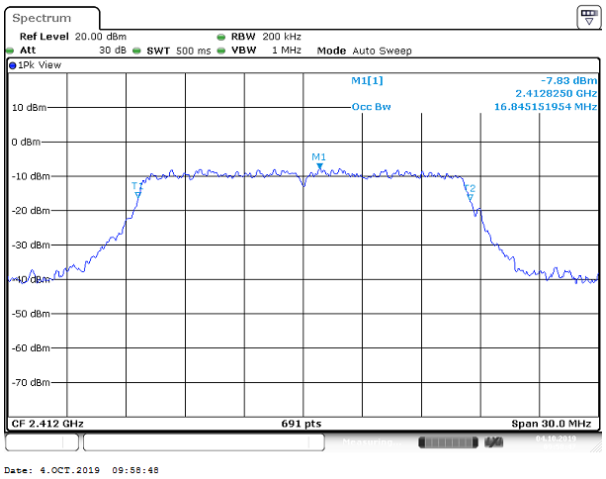
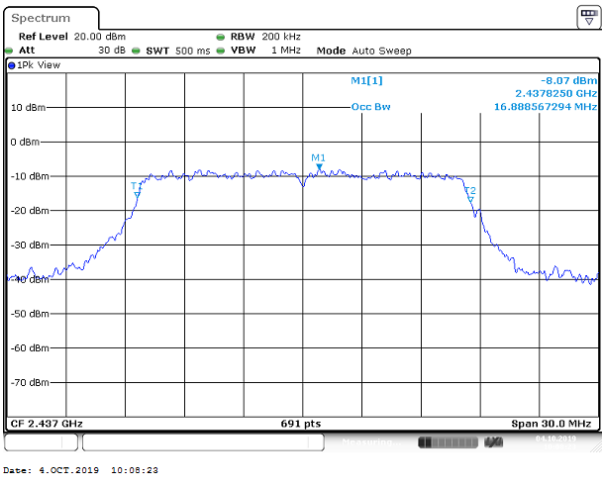
IEEE 802.11g mode

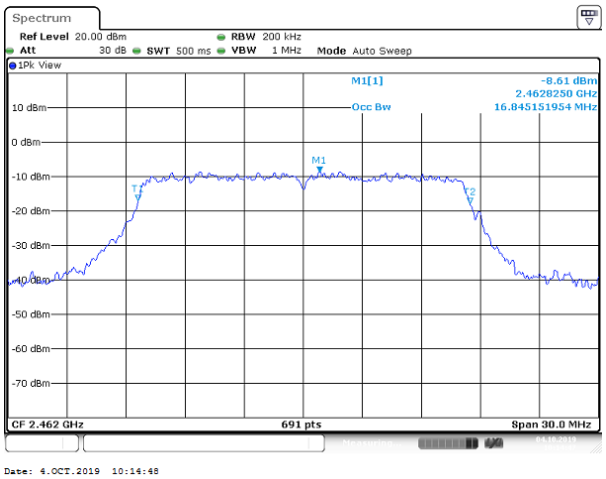
Low CH



Mid CH



High CH



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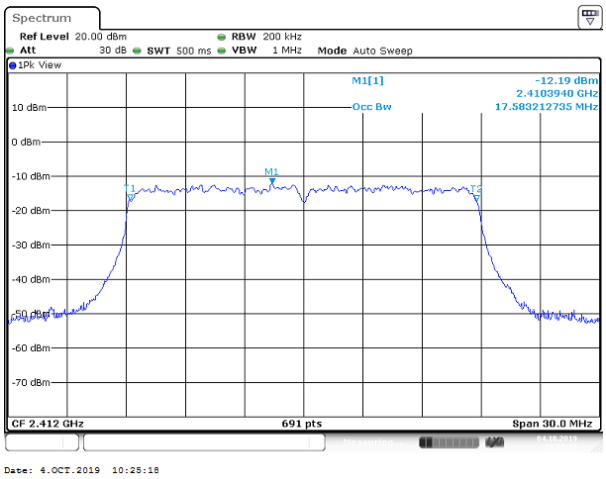
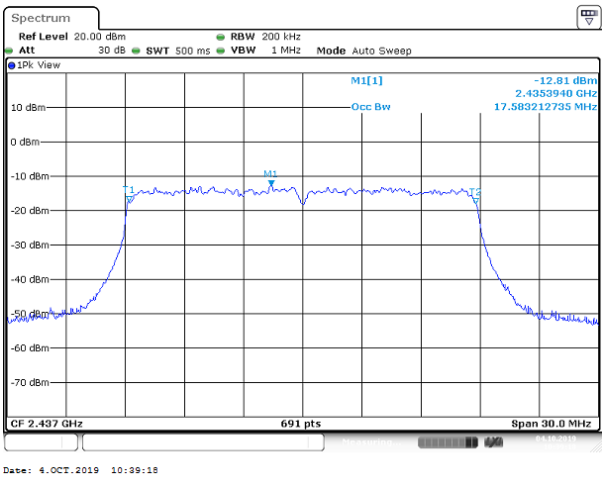
IEEE 802.11n HT20 mode

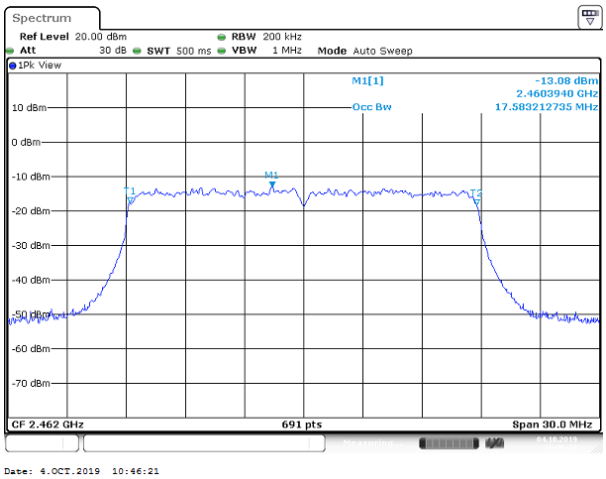
Low CH



Mid CH



High CH



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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)

Peak output power：

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	☒ Antenna not exceed 6 dBi：30dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)] ☐ Point-to-point operation：

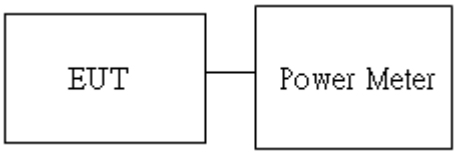
Average output power：For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



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4.3.4 Test Result

Peak output power：

Wifi 2.4G						
Config	**CH**	**Freq. (MHz)**	**power set**	**PK Power (dBm)**	**PK Power (W)**	**Limit (dBm)**
IEEE 802.11b Data rate: 1Mbps	Low	2412	Default	16.46	0.0443	30
	Mid	2437	Default	15.81	0.0381	
	High	2462	Default	15.36	0.0344	
IEEE 802.11g Data rate: 6Mbps	Low	2412	Default	17.52	0.0565	
	Mid	2437	Default	17.04	0.0506	
	High	2462	Default	16.28	0.0425	
IEEE 802.11n HT20 Data rate: MCS0	Low	2412	Default	16.90	0.0490	
	Mid	2437	Default	16.06	0.0404	
	High	2462	Default	15.79	0.0379	

Average output power：

Wifi 2.4G			
Config	**CH**	**Freq. (MHz)**	**AV Power (dBm)**
IEEE 802.11b Data rate: 1Mbps	Low	2412	13.71
	Mid	2437	13.28
	High	2462	12.82
IEEE 802.11g Data rate: 6Mbps	Low	2412	13.03
	Mid	2437	12.57
	High	2462	11.73
IEEE 802.11n HT20 Data rate: MCS0	Low	2412	8.04
	Mid	2437	7.06
	High	2462	6.80

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4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

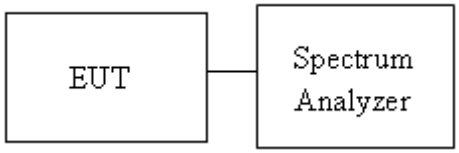
Limit	☒ Antenna not exceed 6 dBi：8dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 8 – (DG – 6)] ☐ Point-to-point operation：

4.4.2 Test Procedure

Test method Refer as KDB 558074 D01

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss was compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



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4.4.4 Test Result

Test mode: IEEE 802.11b mode / 2412-2462 MHz			
Channel	**Frequency (MHz)**	**PPSD (dBm)**	**Limit (dBm)**
Low	2412	-11.51	8
Mid	2437	-10.58	
High	2462	-11	

Test mode: IEEE 802.11g mode / 2412-2462 MHz			
Channel	**Frequency (MHz)**	**PPSD (dBm)**	**Limit (dBm)**
Low	2412	-15.21	8
Mid	2437	-15.64	
High	2462	-16.01	

Test mode: IEEE 802.11n HT 20 mode / 2412-2462 MHz			
Channel	**Frequency (MHz)**	**PPSD (dBm)**	**Limit (dBm)**
Low	2412	-18.24	8
Mid	2437	-17.96	
High	2462	-18.45	

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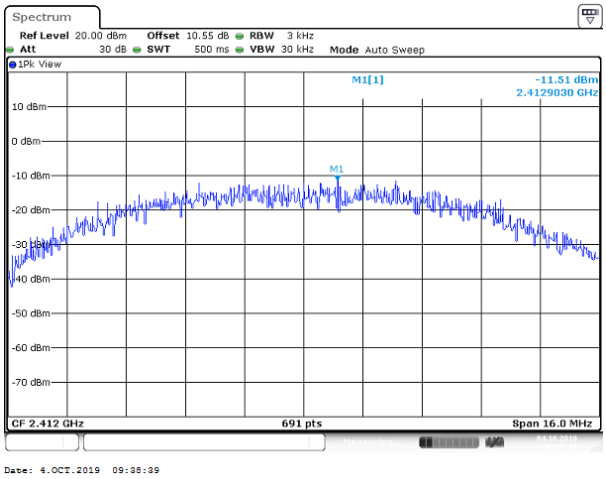
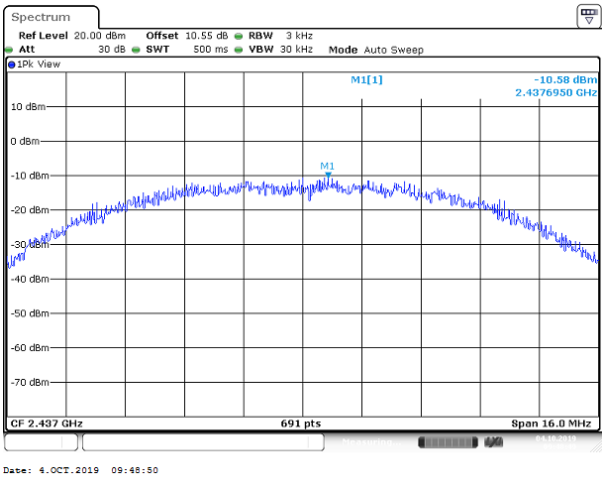
Test Data

IEEE 802.11b mode

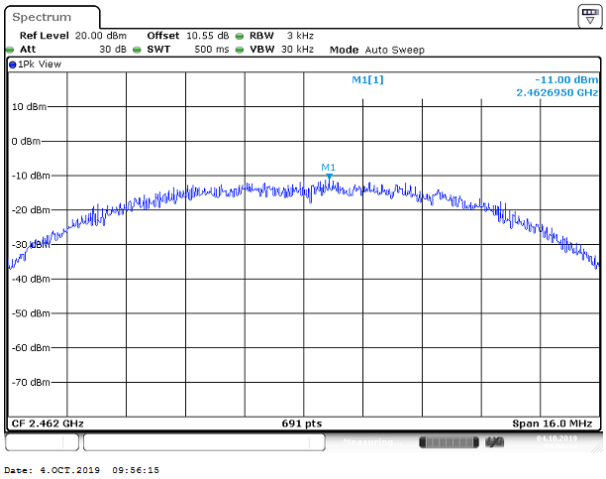
Low CH



Mid CH



High CH



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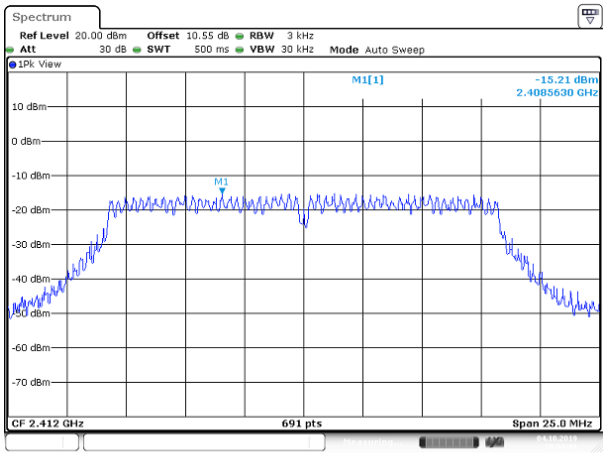
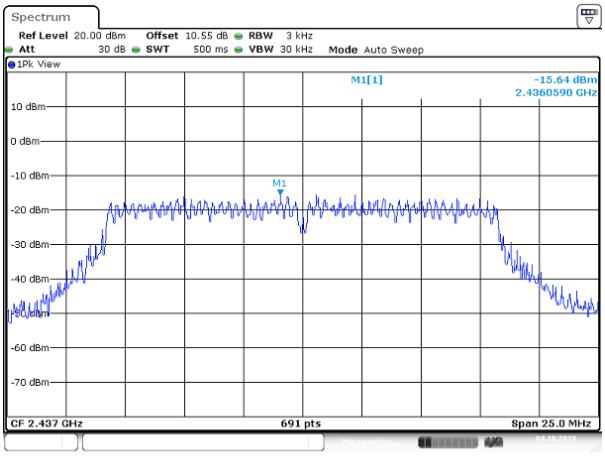
IEEE 802.11g mode

Low CH



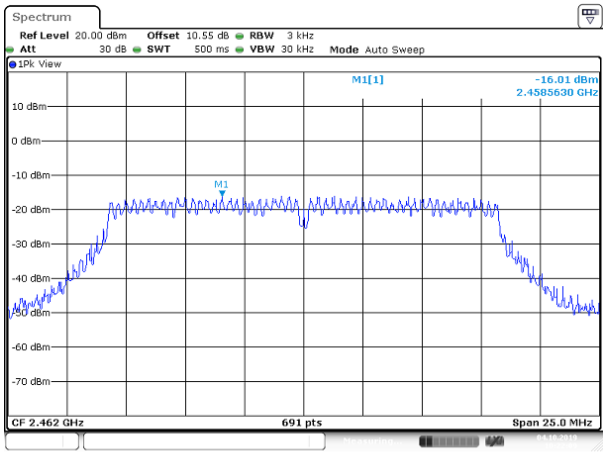
Date: 4.OCT.2019 10:04:42

Mid CH



Date: 4.OCT.2019 10:12:45

High CH



Date: 4.OCT.2019 10:22:10

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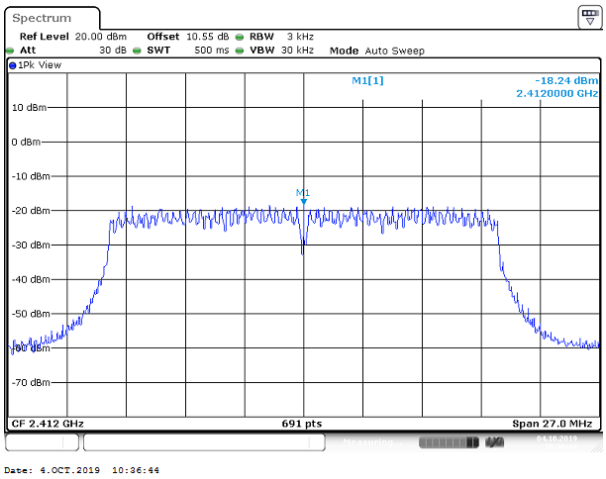
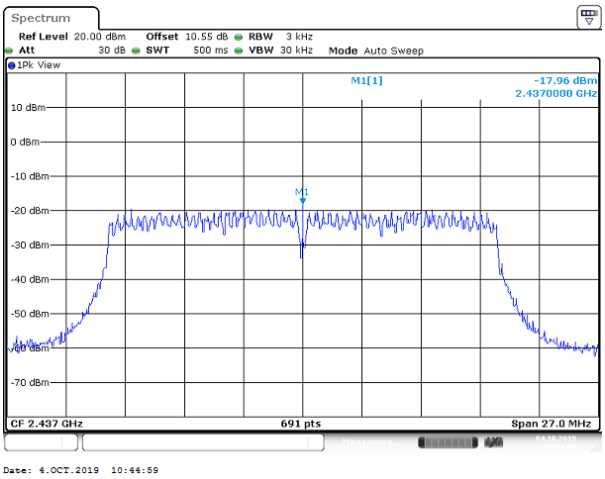
IEEE 802.11n HT20 mode

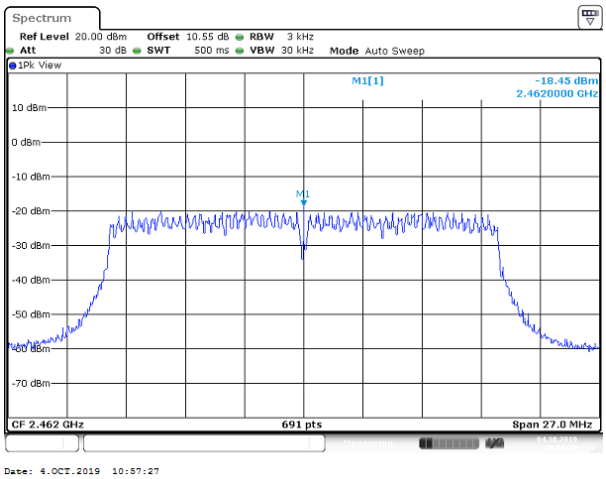
Low CH



Mid CH



High CH



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4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d)

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

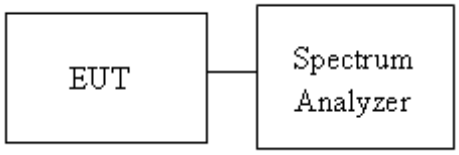
Test method Refer as KDB 558074 D01

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.

2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.

3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. f the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

4.5.3 Test Setup



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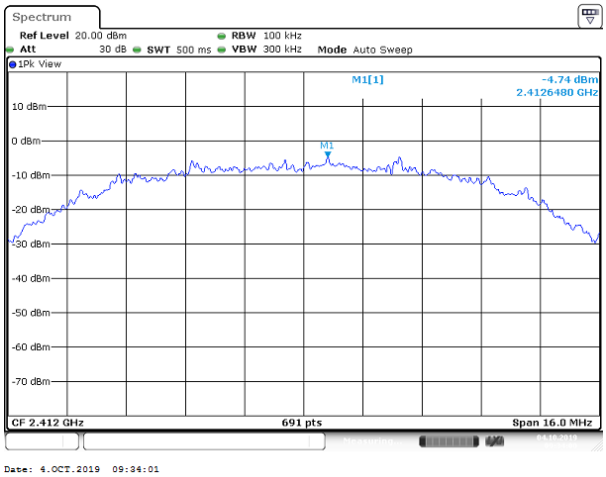
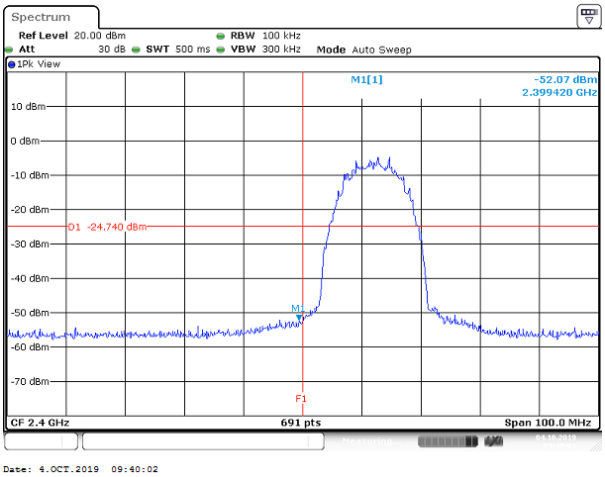
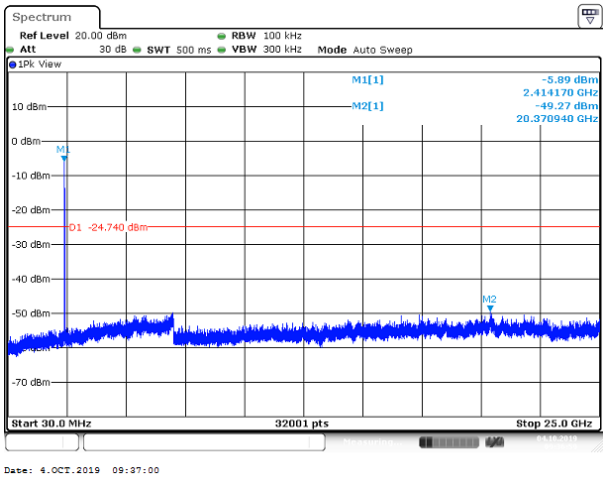
4.5.4 Test Result

Test Data

IEEE 802.11b mode Low CH	
Reference Level of PSD in 100kHz	**Band Edge**
	
Spurious Emission 30MHz-25GHz	
	

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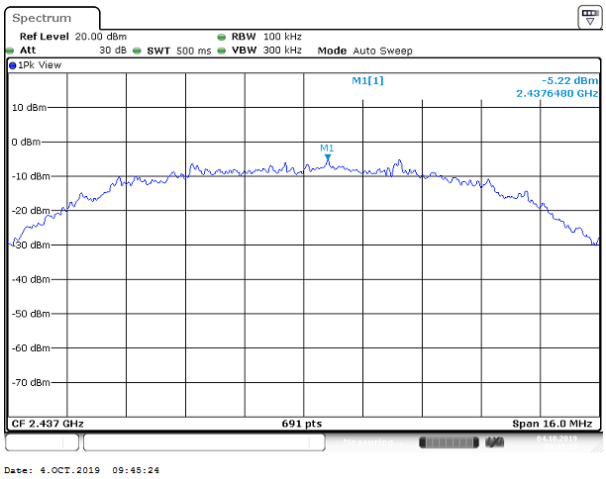
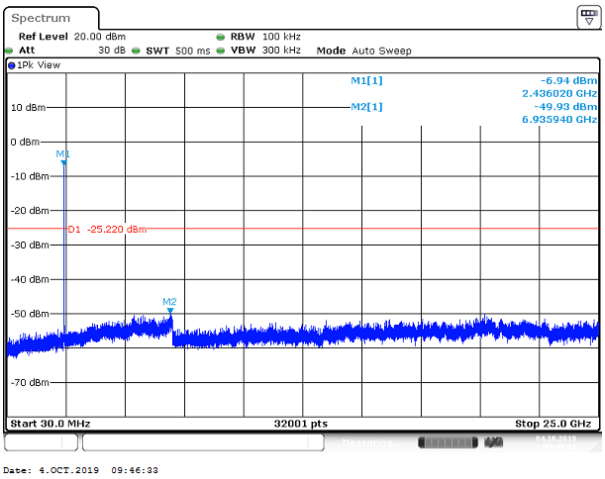
IEEE 802.11b mode Mid CH	
Reference Level of PSD in 100kHz	**Spurious Emission 30MHz-25GHz**
	

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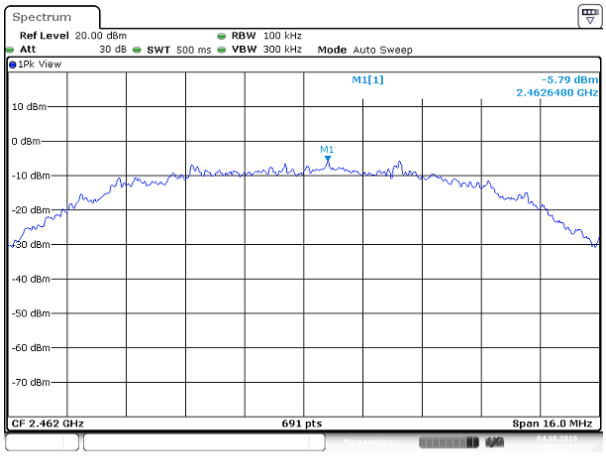
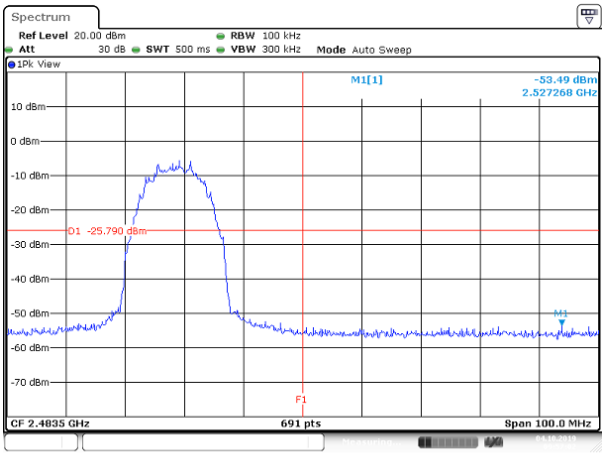
IEEE 802.11b mode High CH

Reference Level of PSD in 100kHz



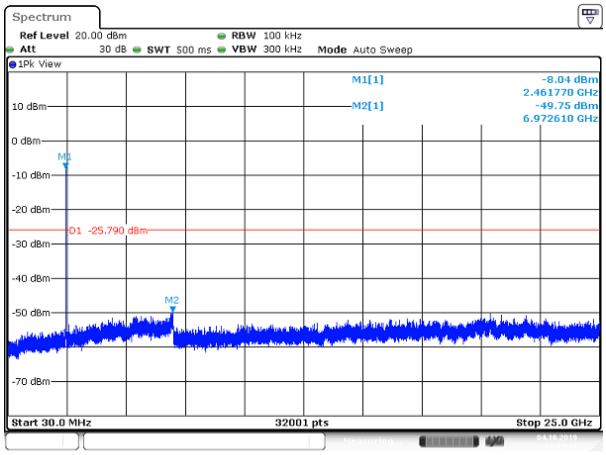
Date: 4.OCT.2019 09:53:15

Band Edge



Date: 4.OCT.2019 09:57:03

Spurious Emission 30MHz-25GHz



Date: 4.OCT.2019 09:54:43

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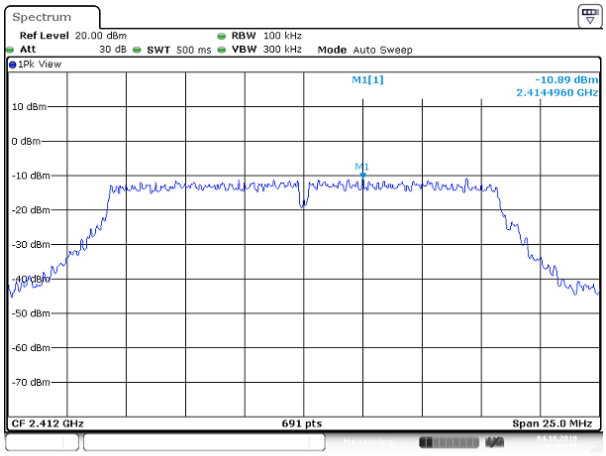
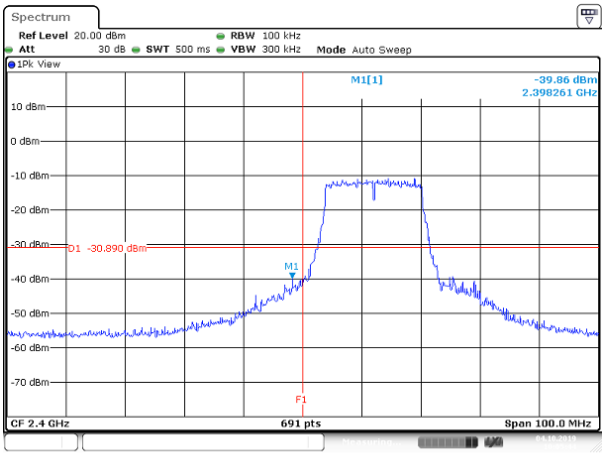
IEEE 802.11g mode Low CH

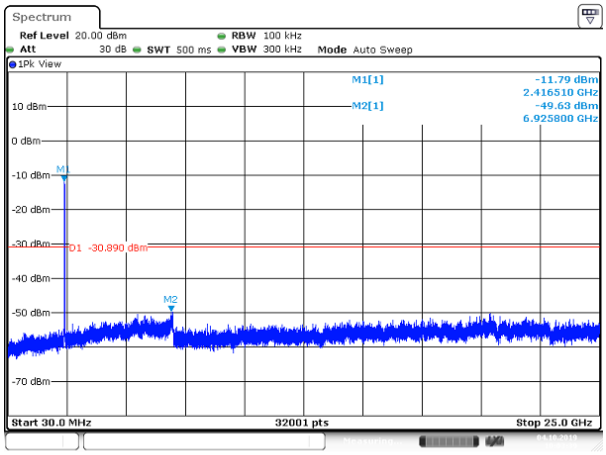
Reference Level of PSD in 100kHz



Band Edge



Spurious Emission 30MHz-25GHz



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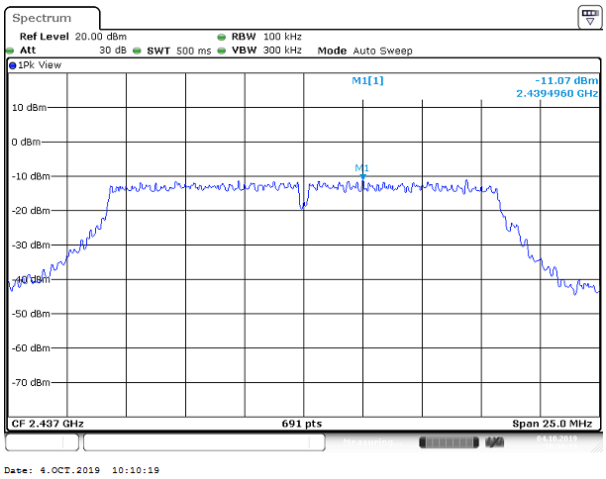
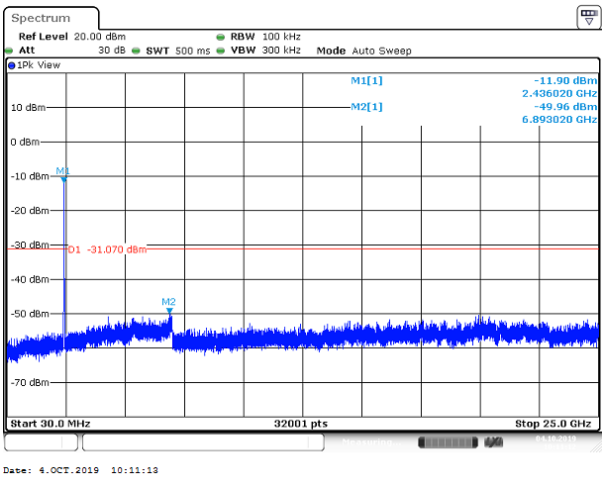
IEEE 802.11g mode Mid CH	
Reference Level of PSD in 100kHz	**Spurious Emission 30MHz-25GHz**
	

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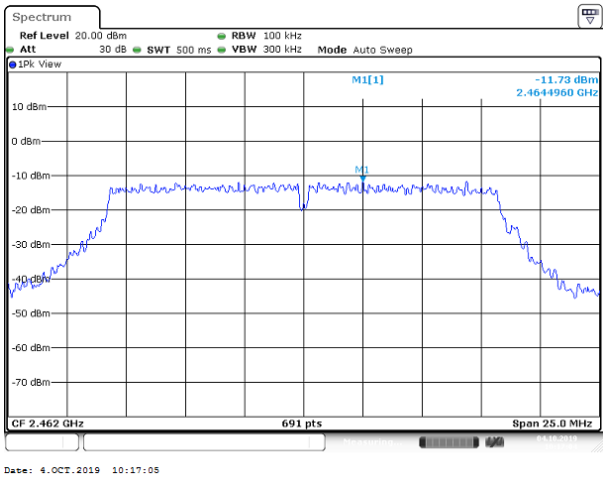
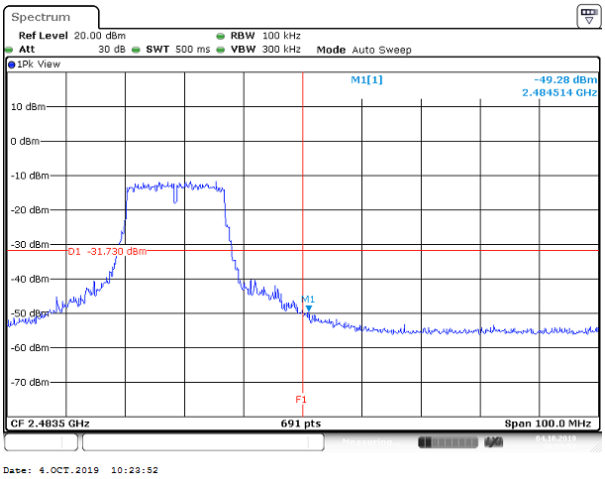
IEEE 802.11g mode High CH

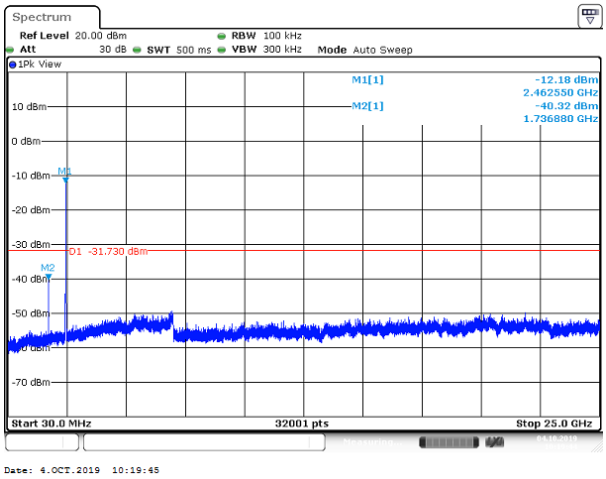
Reference Level of PSD in 100kHz



Band Edge



Spurious Emission 30MHz-25GHz



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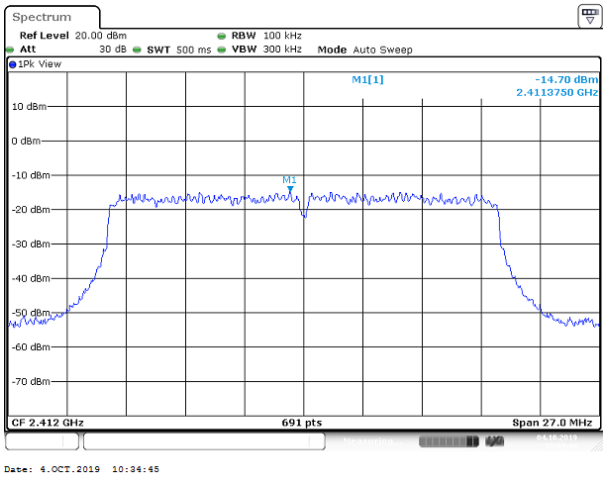
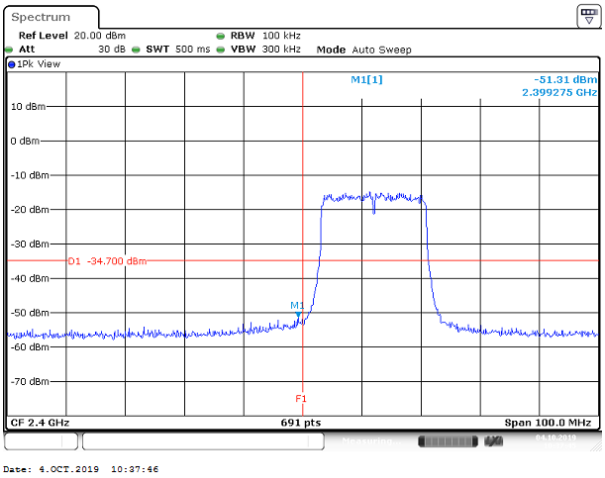
IEEE 802.11 n HT20 mode Low CH

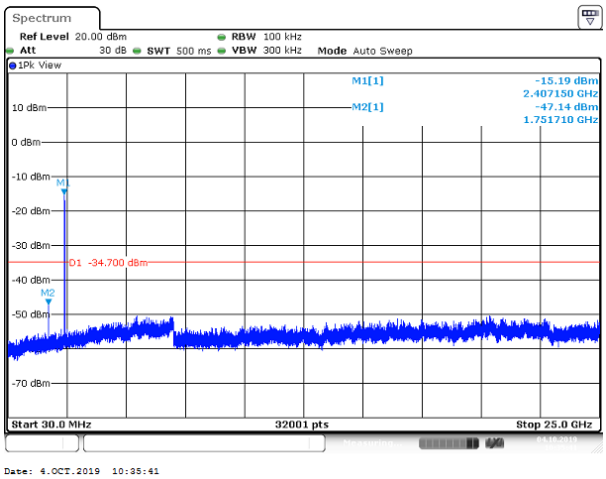
Reference Level of PSD in 100kHz



Band Edge



Spurious Emission 30MHz-25GHz



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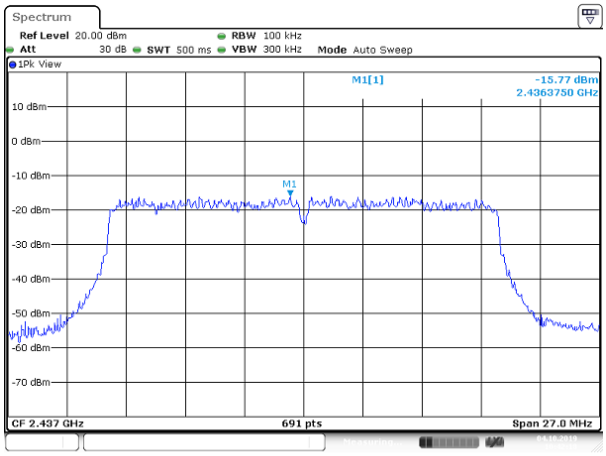
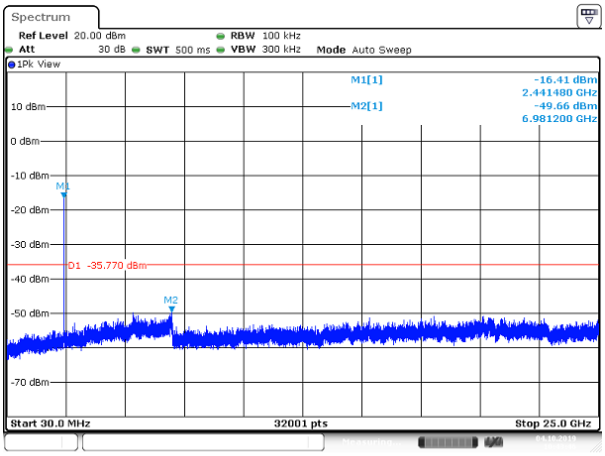
IEEE 802.11 n HT20 mode Mid CH	
Reference Level of PSD in 100kHz	**Spurious Emission 30MHz-25GHz**
	

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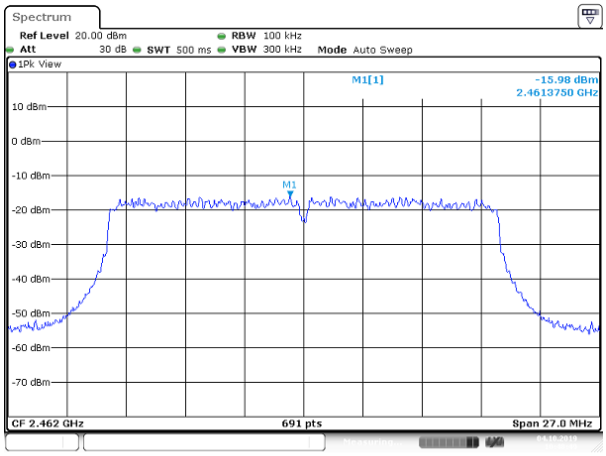
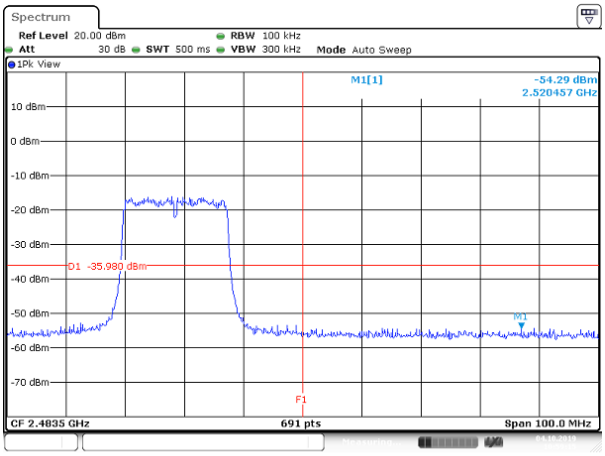
IEEE 802.11n HT20 mode High CH chain 0

Reference Level of PSD in 100kHz



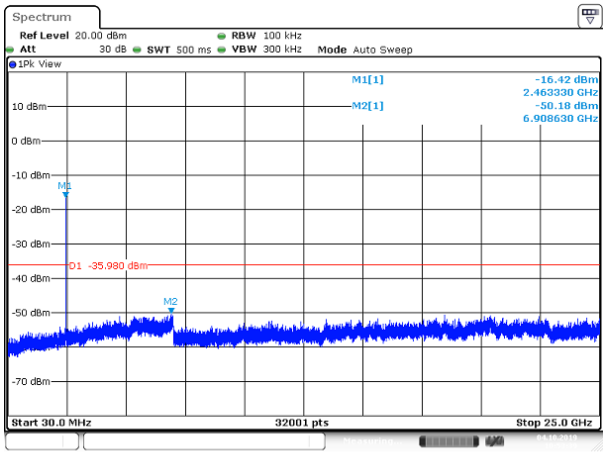
Date: 4.OCT.2019 10:48:50

Band Edge



Date: 4.OCT.2019 10:59:16

Spurious Emission 30MHz-25GHz



Date: 4.OCT.2019 10:53:39

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4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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4.6.2 Test Procedure

Test method Refer as KDB 558074 D01

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 30MHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Remark:
1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test 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 based on KDB 414788.
2. Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

4. The SA setting following：

(1) Below 1G：RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G：

(2.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement：RBW = 1MHz, VBW

˙If Duty Cycle ≥ 98%, VBW=10Hz.

˙If Duty Cycle < 98%, VBW=1/T.

Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11b	100%	1.0000	-	10Hz
802.11g	100%	1.0000	-	10Hz
802.11n HT20	100%	1.0000	-	10Hz

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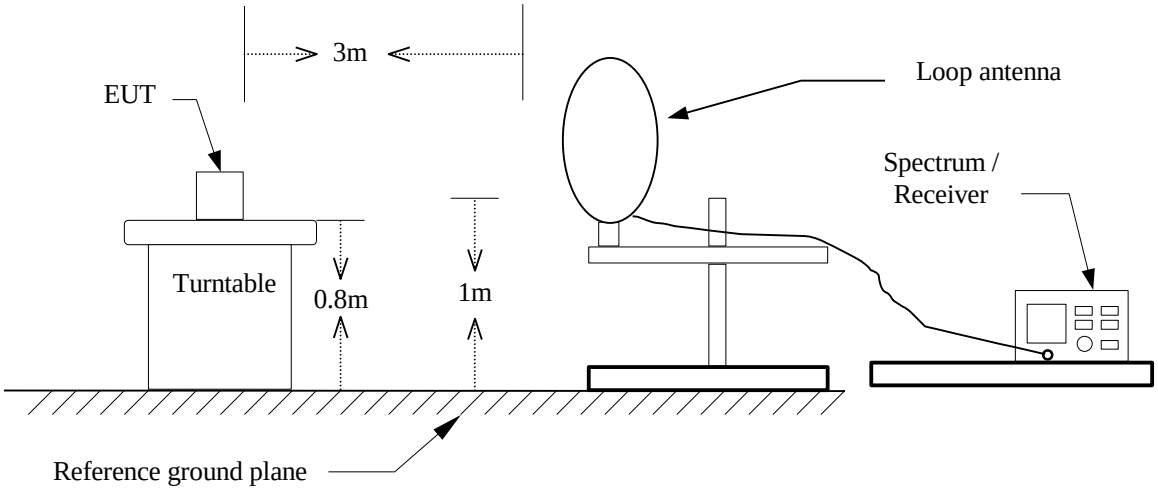
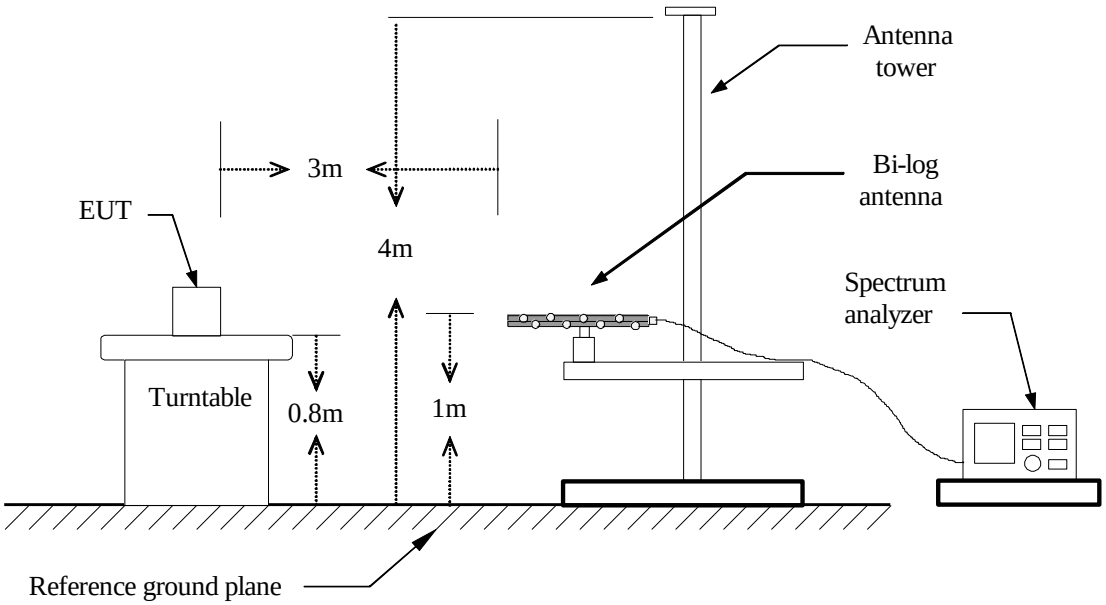
4.6.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz



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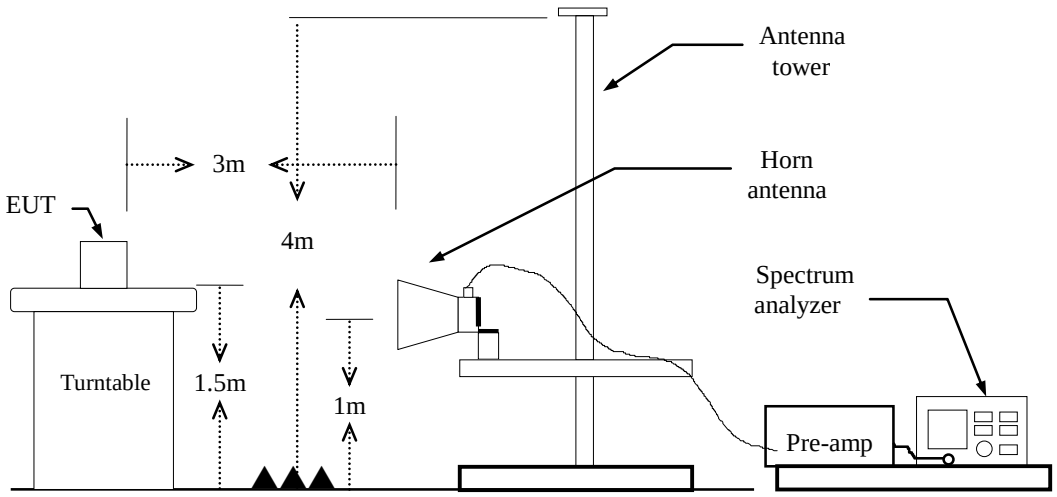
Above 1 GHz



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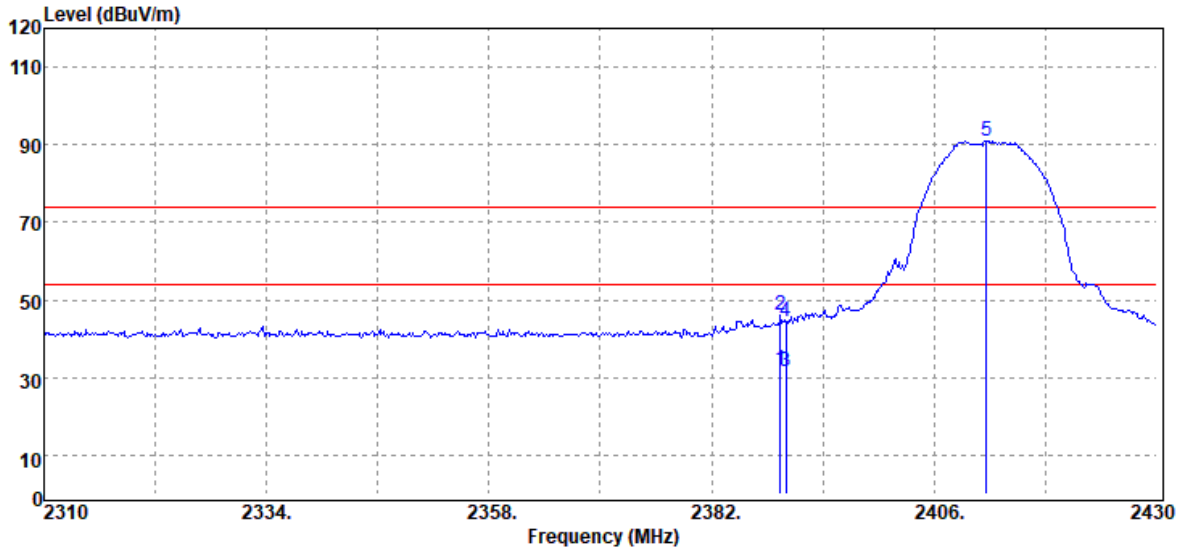
4.6.4 Test Result

Band Edge Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2389.44	41.57	-9.80	31.77	54.00	-22.23	Average
2389.44	55.83	-9.80	46.03	74.00	-27.97	Peak
2390.00	41.24	-9.79	31.45	54.00	-22.55	Average
2390.00	54.28	-9.79	44.49	74.00	-29.51	Peak
2411.64	100.74	-9.78	90.96	74.00	-	-

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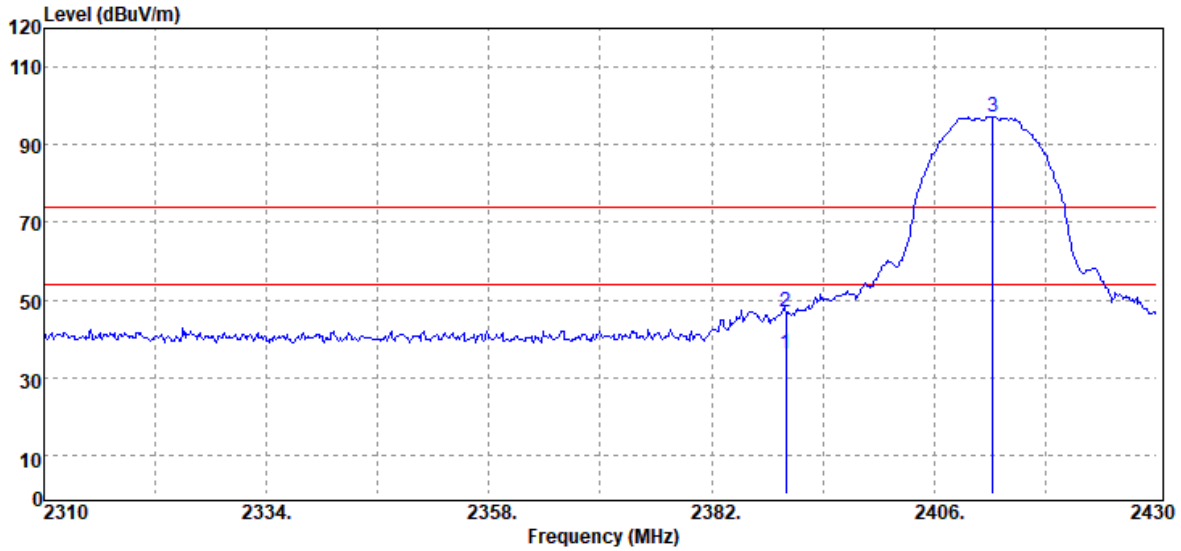
Test Mode	IEEE 802.11b Low CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	45.80	-9.79	36.01	54.00	-17.99	Average
2390.00	56.56	-9.79	46.77	74.00	-27.23	Peak
2412.36	107.09	-9.78	97.31	74.00	-	-

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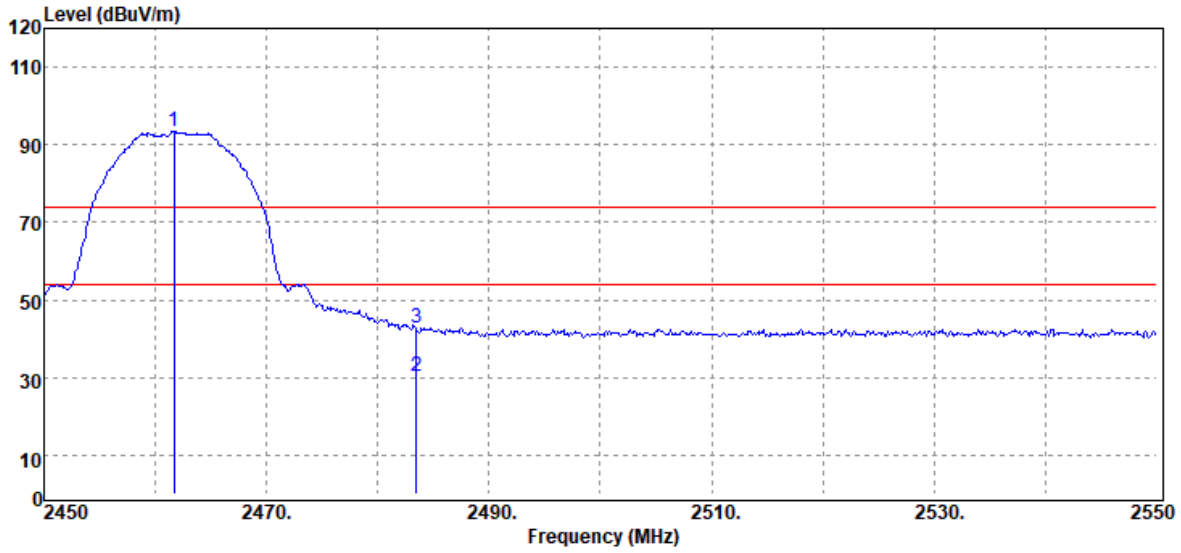
Test Mode	IEEE 802.11b High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.70	102.88	-9.56	93.32	74.00	-	-
2483.50	39.68	-9.40	30.28	54.00	-23.72	Average
2483.50	52.05	-9.40	42.65	74.00	-31.35	Peak

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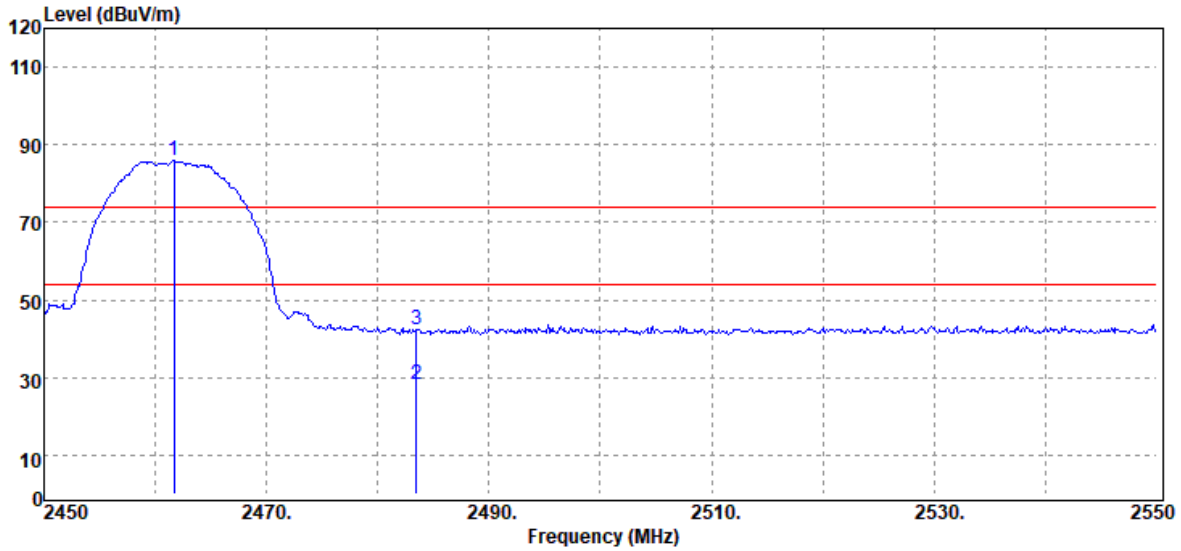
Test Mode	IEEE 802.11b High CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.70	95.35	-9.56	85.79	74.00	-	-
2483.50	37.81	-9.40	28.41	54.00	-25.59	Average
2483.50	51.70	-9.40	42.30	74.00	-31.70	Peak

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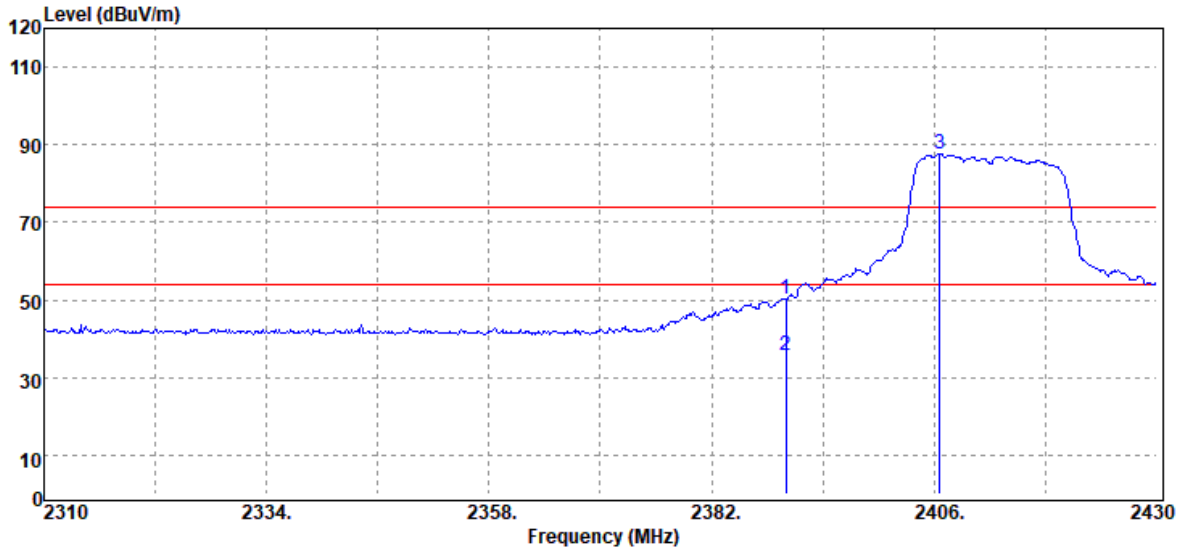
Test Mode	IEEE 802.11g Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	60.07	-9.79	50.28	74.00	-23.72	Peak
2390.00	45.48	-9.79	35.69	54.00	-18.31	Average
2406.60	97.32	-9.80	87.52	74.00	-	-

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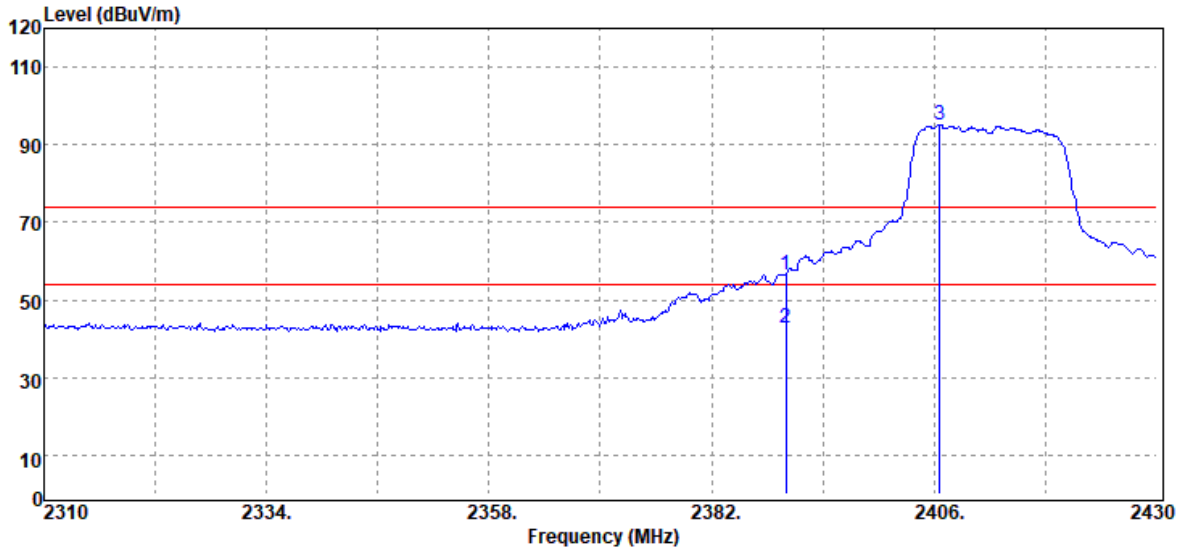
Test Mode	IEEE 802.11g Low CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	66.20	-9.79	56.41	74.00	-17.59	Peak
2390.00	52.35	-9.79	42.56	54.00	-11.44	Average
2406.60	104.83	-9.80	95.03	74.00	-	-

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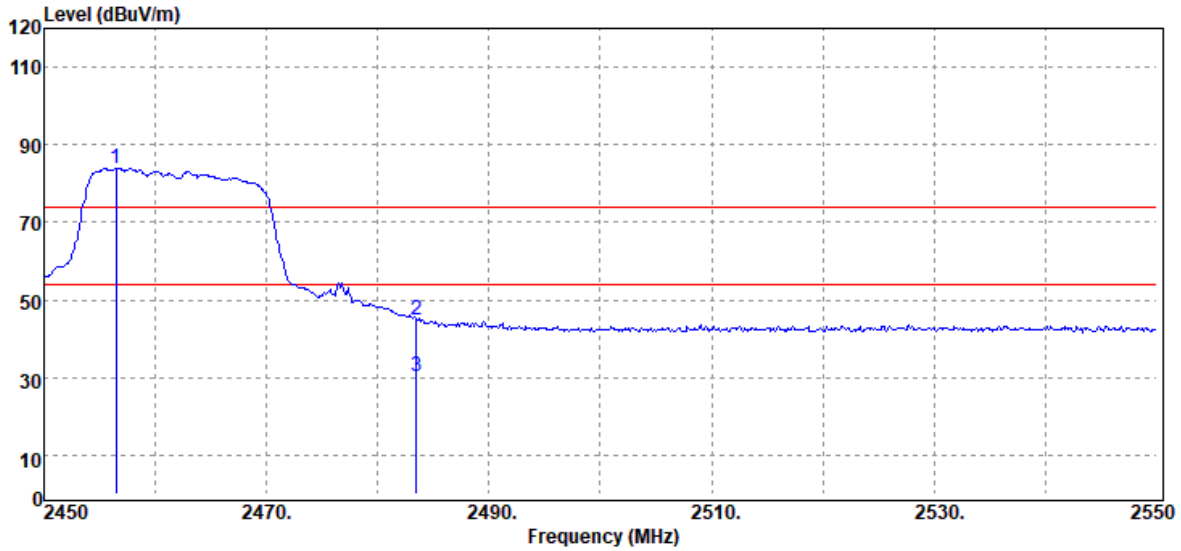
Test Mode	IEEE 802.11g High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2456.50	93.63	-9.60	84.03	74.00	-	-
2483.50	54.18	-9.40	44.78	74.00	-29.22	Peak
2483.50	39.57	-9.40	30.17	54.00	-23.83	Average

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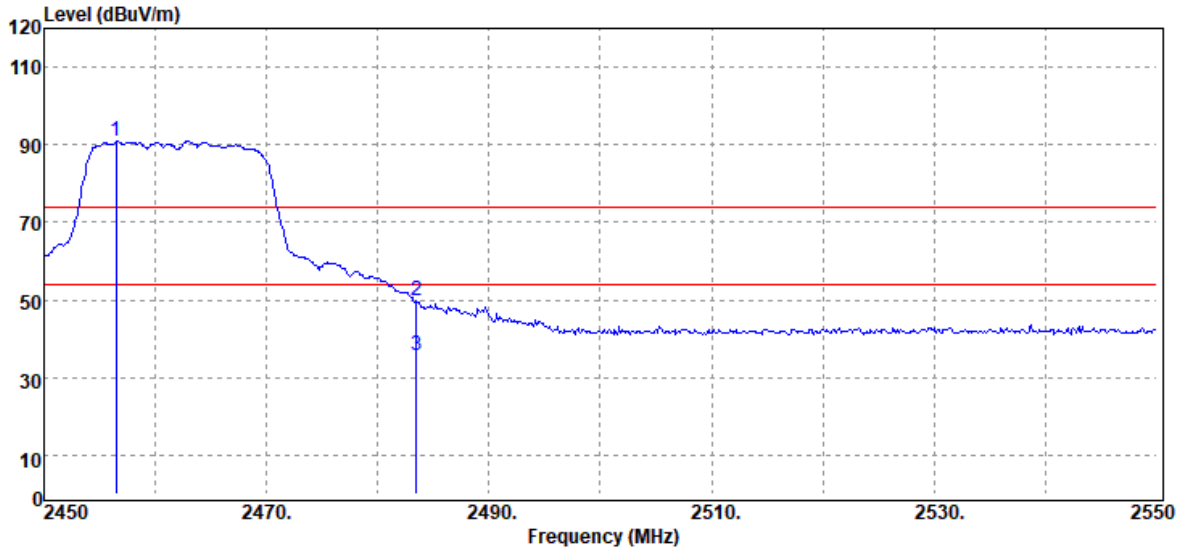
Test Mode	IEEE 802.11g High CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2456.50	100.40	-9.60	90.80	74.00	-	-
2483.50	59.18	-9.40	49.78	74.00	-24.22	Peak
2483.50	45.15	-9.40	35.75	54.00	-18.25	Average

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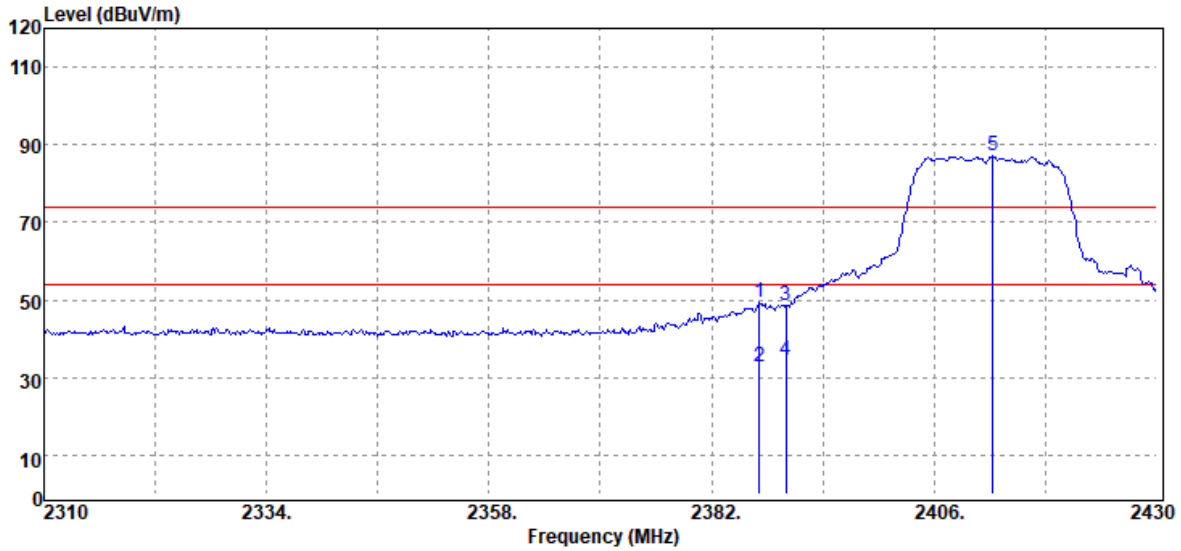
Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2387.16	59.17	-9.79	49.38	74.00	-24.62	Peak
2387.16	42.47	-9.79	32.68	54.00	-21.32	Average
2390.00	58.35	-9.79	48.56	74.00	-25.44	Peak
2390.00	44.37	-9.79	34.58	54.00	-19.42	Average
2412.36	96.88	-9.78	87.10	74.00	-	-

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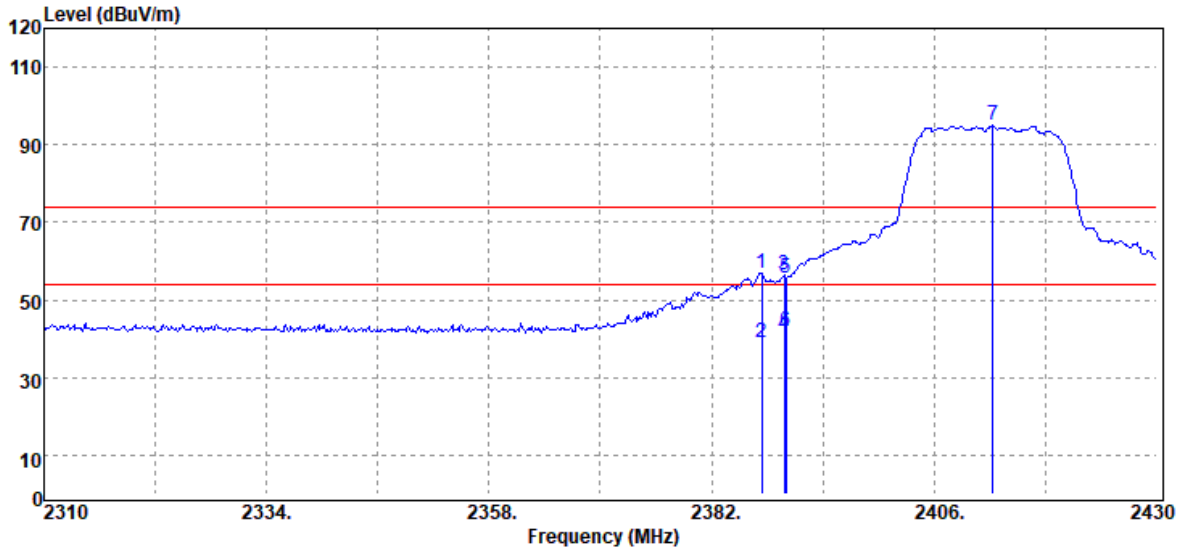
Test Mode	IEEE 802.11n HT20 Low CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2387.40	66.73	-9.79	56.94	74.00	-17.06	Peak
2387.40	48.89	-9.79	39.10	54.00	-14.90	Average
2389.80	66.30	-9.80	56.50	74.00	-17.50	Peak
2389.80	50.82	-9.80	41.02	54.00	-12.98	Average
2390.00	65.54	-9.79	55.75	74.00	-18.25	Peak
2390.00	51.55	-9.79	41.76	54.00	-12.24	Average
2412.36	104.69	-9.78	94.91	74.00	-	-

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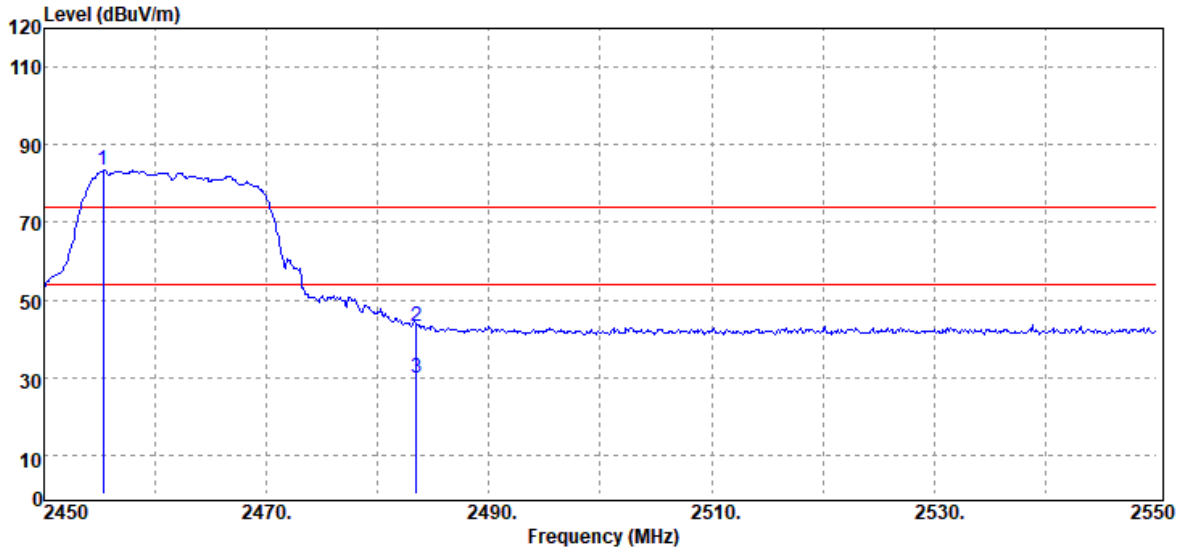
Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.30	93.03	-9.62	83.41	74.00	-	-
2483.50	52.70	-9.40	43.30	74.00	-30.70	Peak
2483.50	39.21	-9.40	29.81	54.00	-24.19	Average

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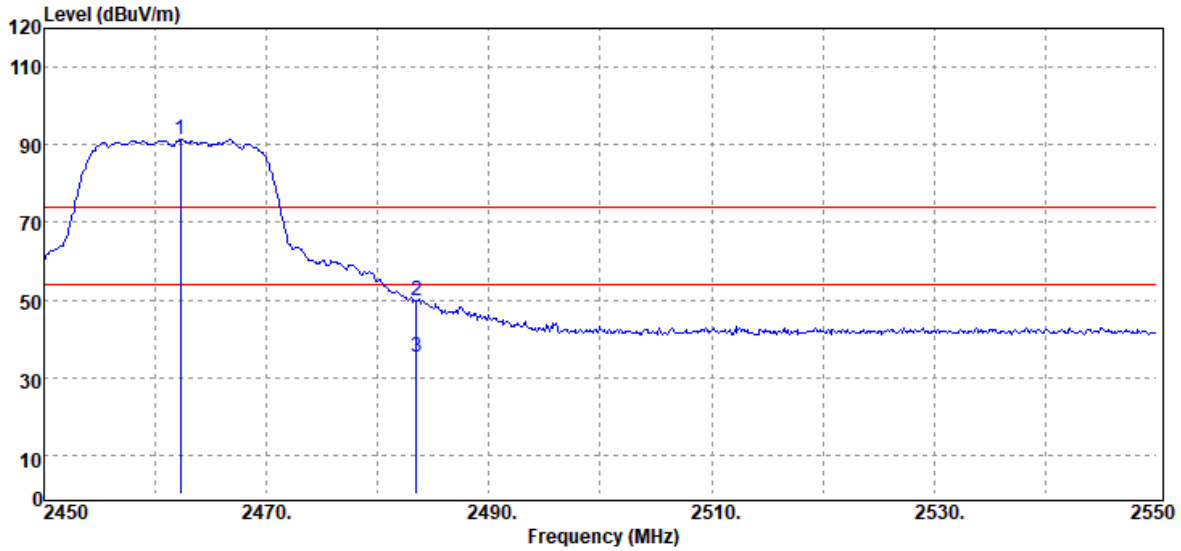
Test Mode	IEEE 802.11n HT20 High CH	Temperature:	27.1(℃)/ 53.1%RH
Test Item	Band Edge	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.30	100.85	-9.56	91.29	74.00	-	-
2483.50	59.10	-9.40	49.70	74.00	-24.30	Peak
2483.50	44.84	-9.40	35.44	54.00	-18.56	Average

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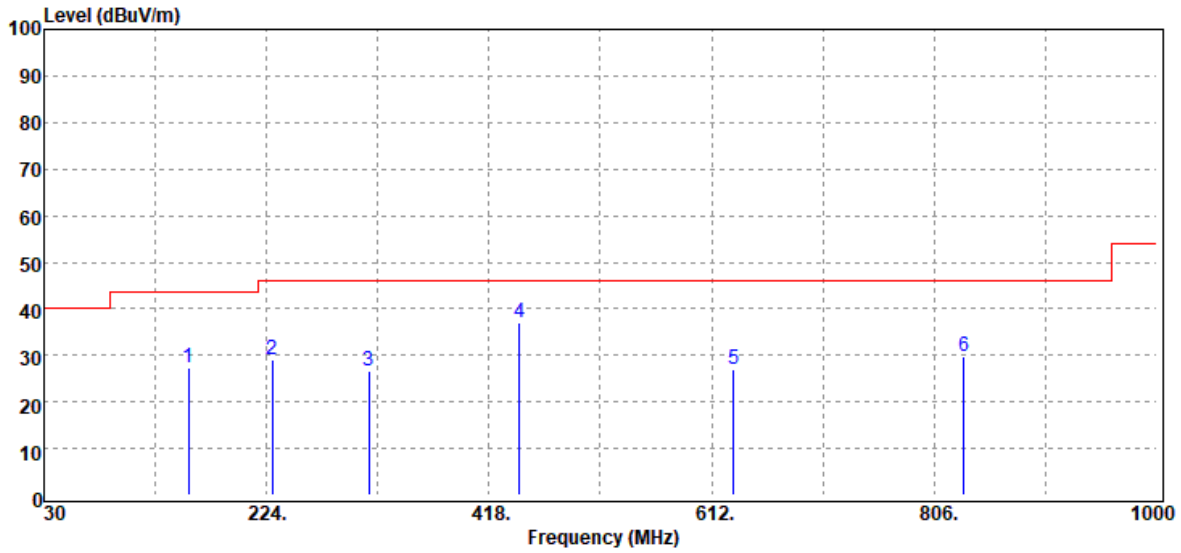
Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	30MHz-1GHz	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
156.10	37.18	-10.01	27.17	43.50	-16.33	Peak
228.85	39.95	-10.89	29.06	46.00	-16.94	Peak
313.24	34.51	-7.82	26.69	46.00	-19.31	Peak
444.19	41.12	-4.11	37.01	46.00	-8.99	Peak
631.40	27.56	-0.40	27.16	46.00	-18.84	Peak
832.19	26.27	3.45	29.72	46.00	-16.28	Peak

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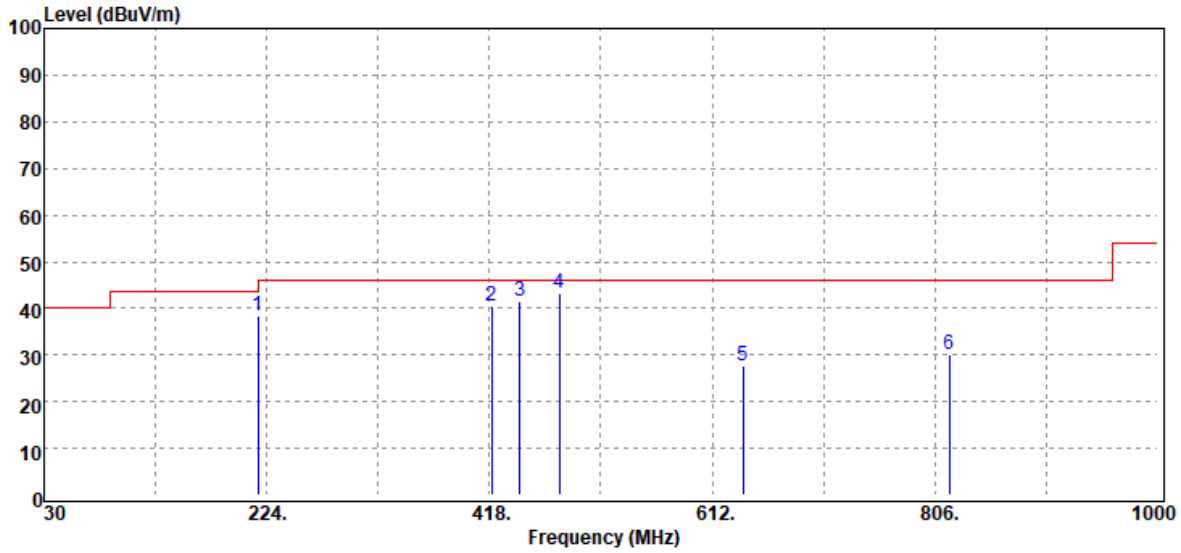
Test Mode	Mode 1	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	30MHz-1GHz	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB	Remark
216.24	50.01	-11.45	38.56	46.00	-7.44	Peak
419.94	45.11	-4.62	40.49	46.00	-5.51	Peak
444.19	45.53	-4.11	41.42	46.00	-4.58	Peak
479.11	46.35	-2.98	43.37	46.00	-2.63	Peak
639.16	27.85	-0.28	27.57	46.00	-18.43	Peak
818.61	27.23	2.92	30.15	46.00	-15.85	Peak

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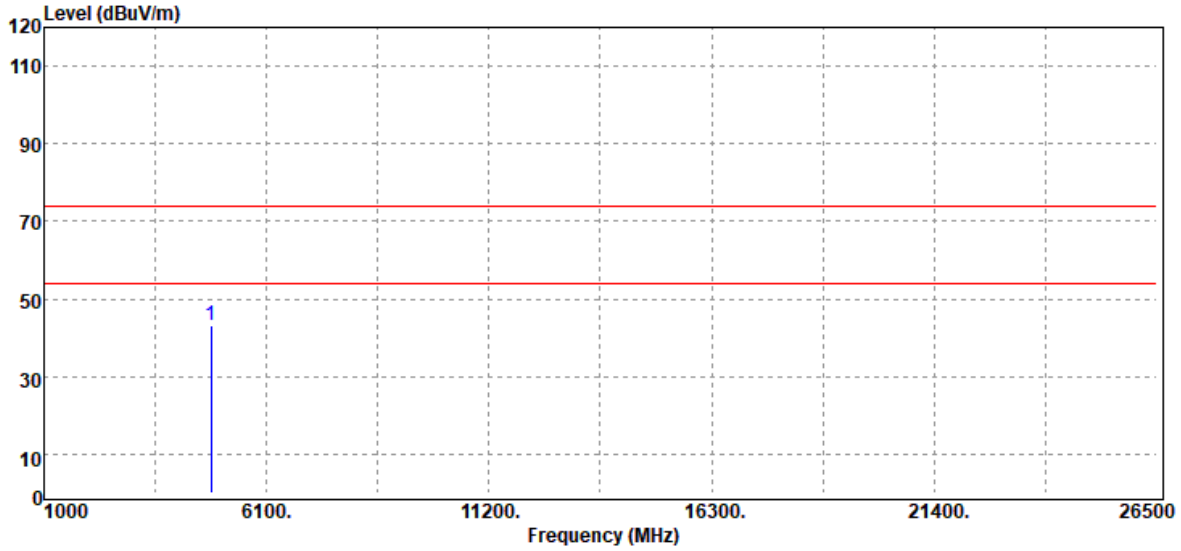
Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	49.70	-6.40	43.30	74.00	-30.70	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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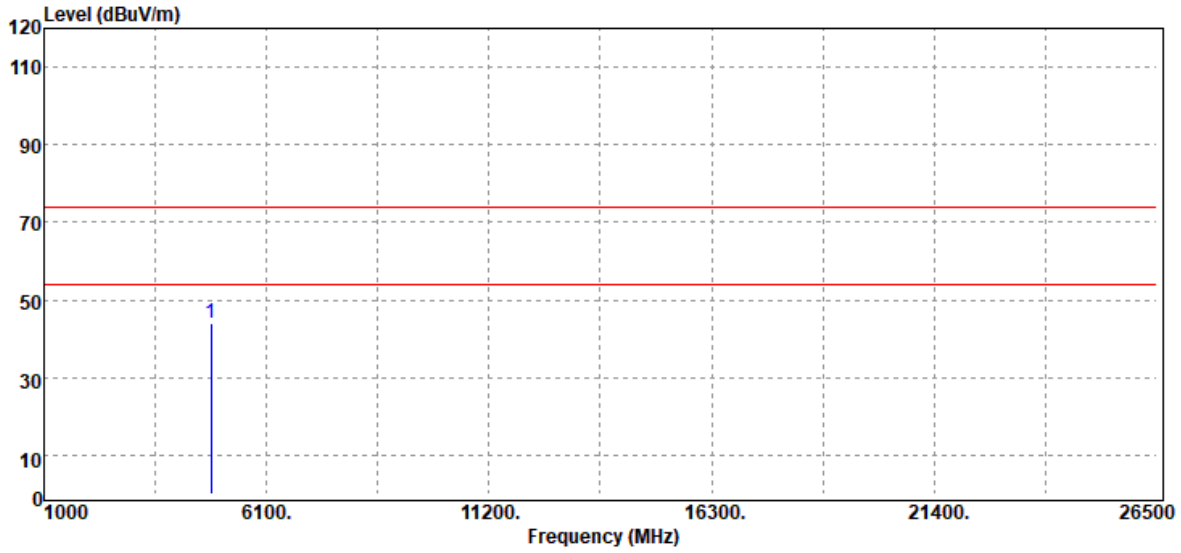
Test Mode	IEEE 802.11b Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (BuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	50.34	-6.40	43.94	74.00	-30.06	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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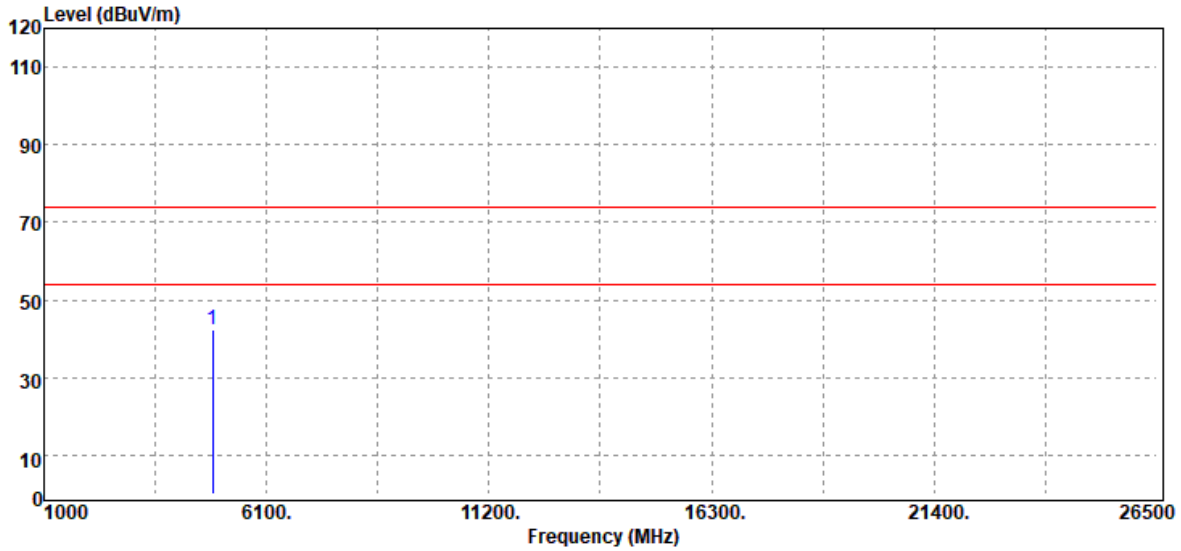
Test Mode	IEEE 802.11b Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBu)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	48.44	-6.25	42.19	74.00	-31.81	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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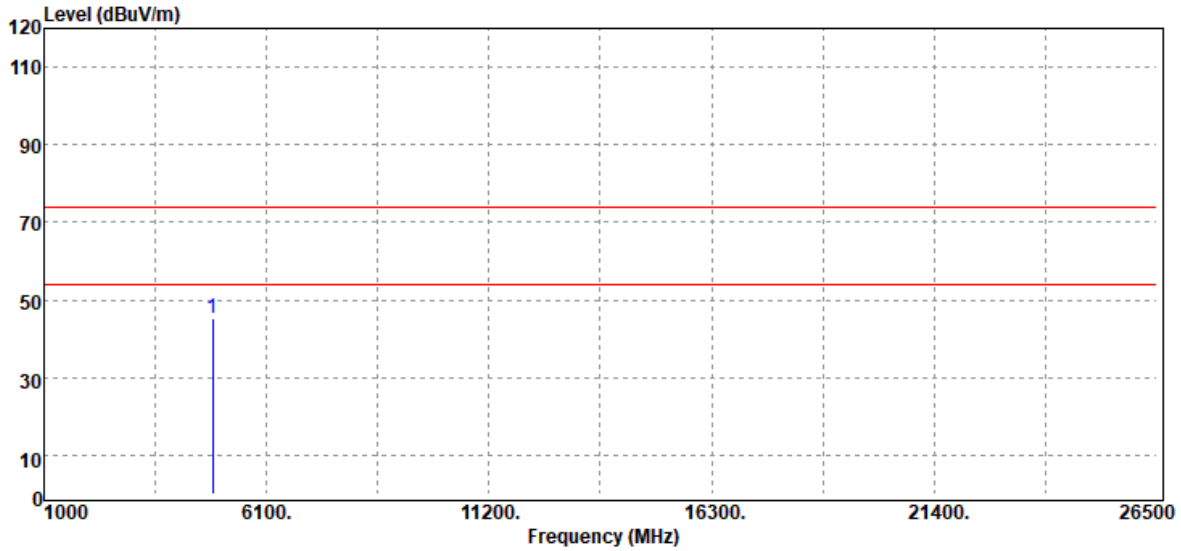
Test Mode	IEEE 802.11b Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	51.48	-6.25	45.23	74.00	-28.77	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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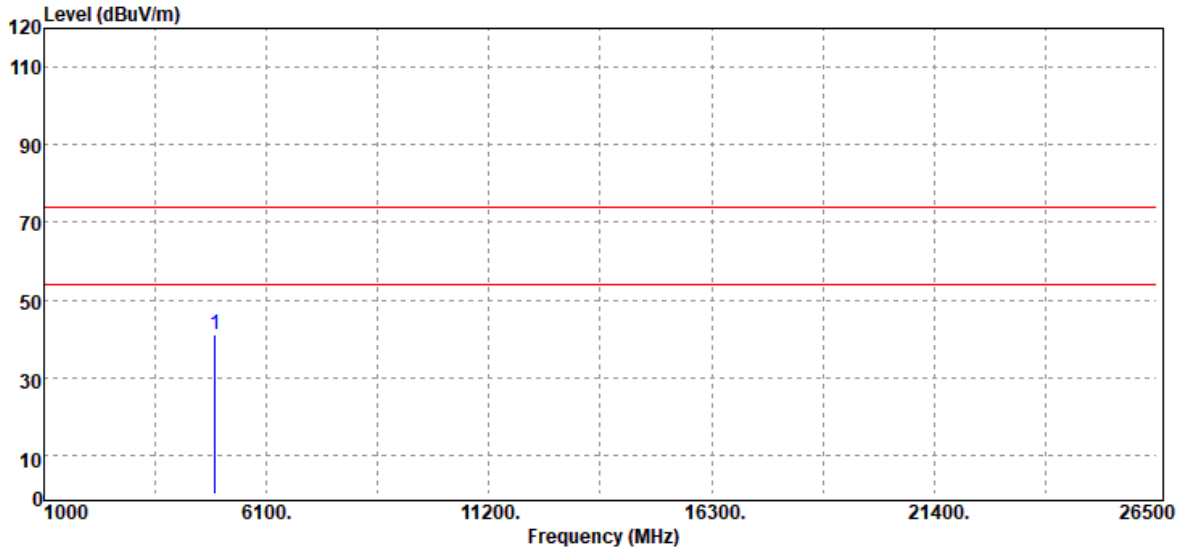
Test Mode	IEEE 802.11b High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	46.96	-5.86	41.10	74.00	-32.90	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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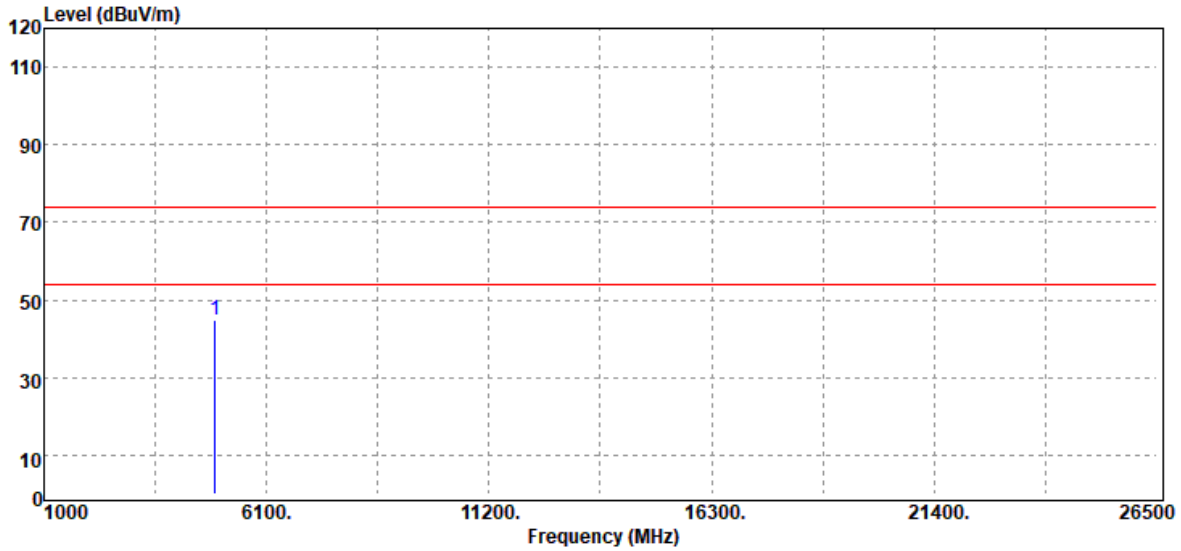
Test Mode	IEEE 802.11b High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB	Remark
4924.00	50.78	-5.86	44.92	74.00	-29.08	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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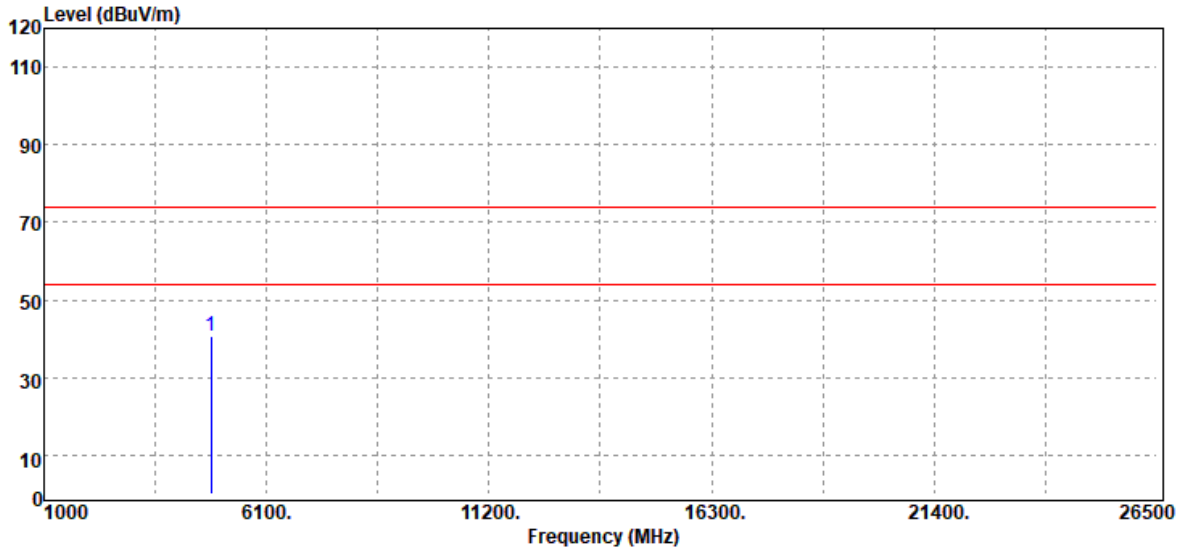
Test Mode	IEEE 802.11g Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	46.99	-6.40	40.59	74.00	-33.41	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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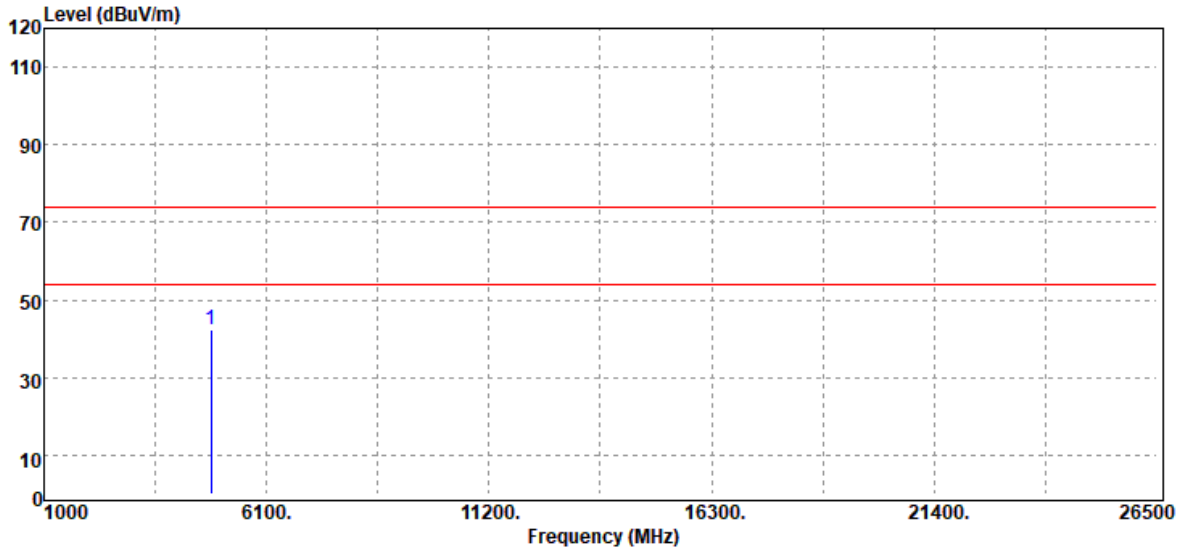
Test Mode	IEEE 802.11g Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (BuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	48.68	-6.40	42.28	74.00	-31.72	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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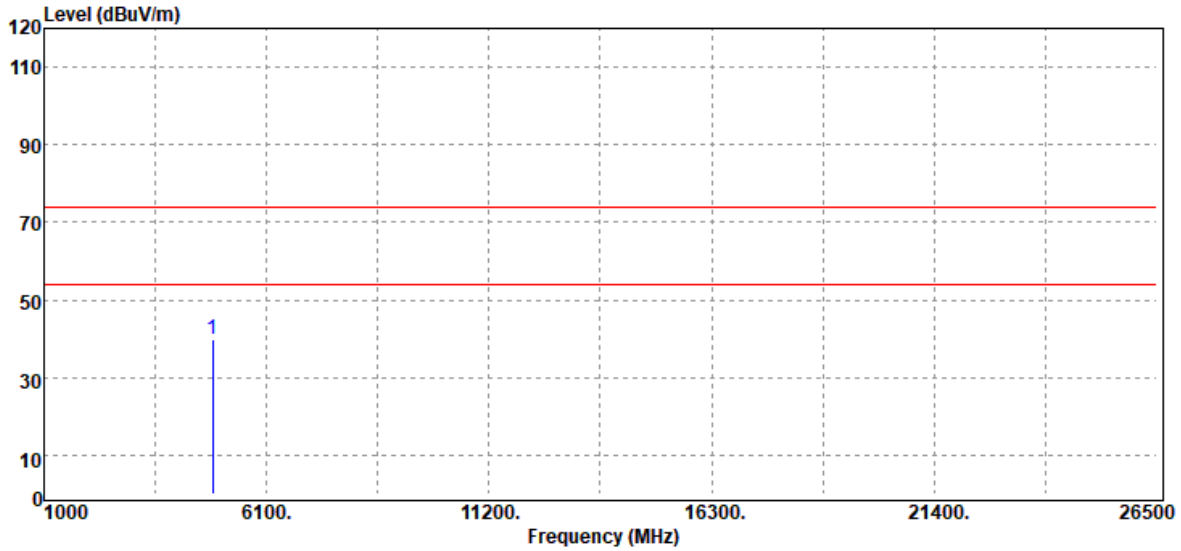
Test Mode	IEEE 802.11g Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBu)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	46.07	-6.25	39.82	74.00	-34.18	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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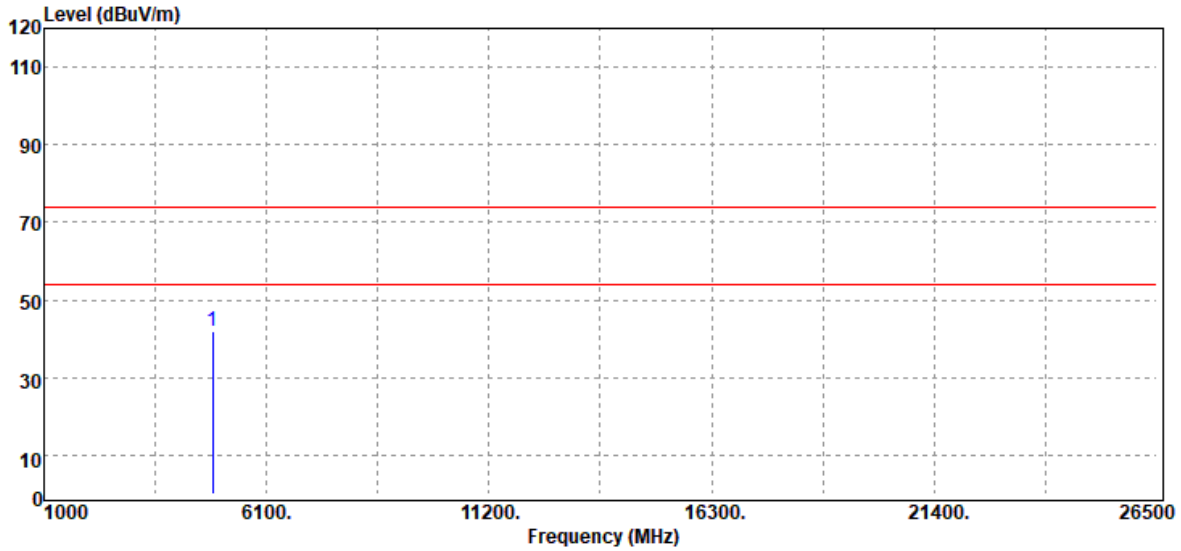
Test Mode	IEEE 802.11g Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	48.09	-6.25	41.84	74.00	-32.16	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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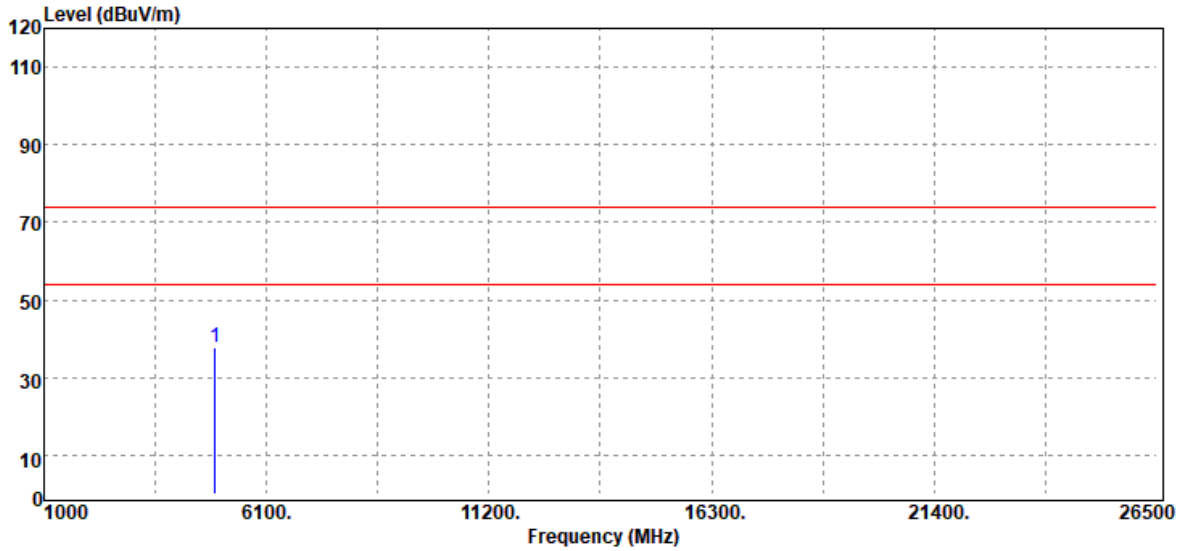
Test Mode	IEEE 802.11g High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	43.71	-5.86	37.85	74.00	-36.15	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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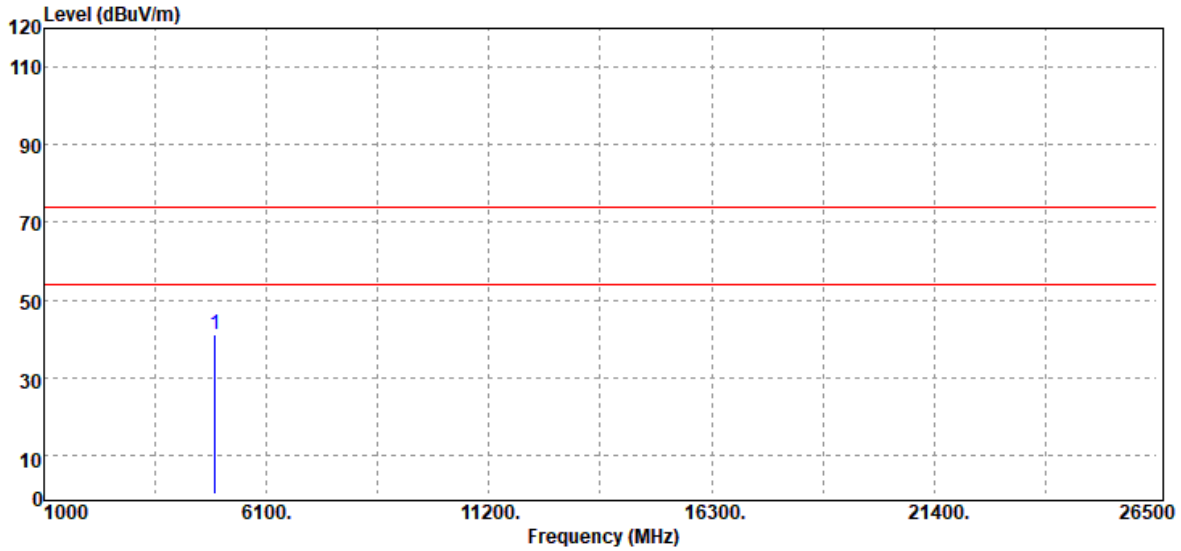
Test Mode	IEEE 802.11g High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB	Remark
4924.00	46.87	-5.86	41.01	74.00	-32.99	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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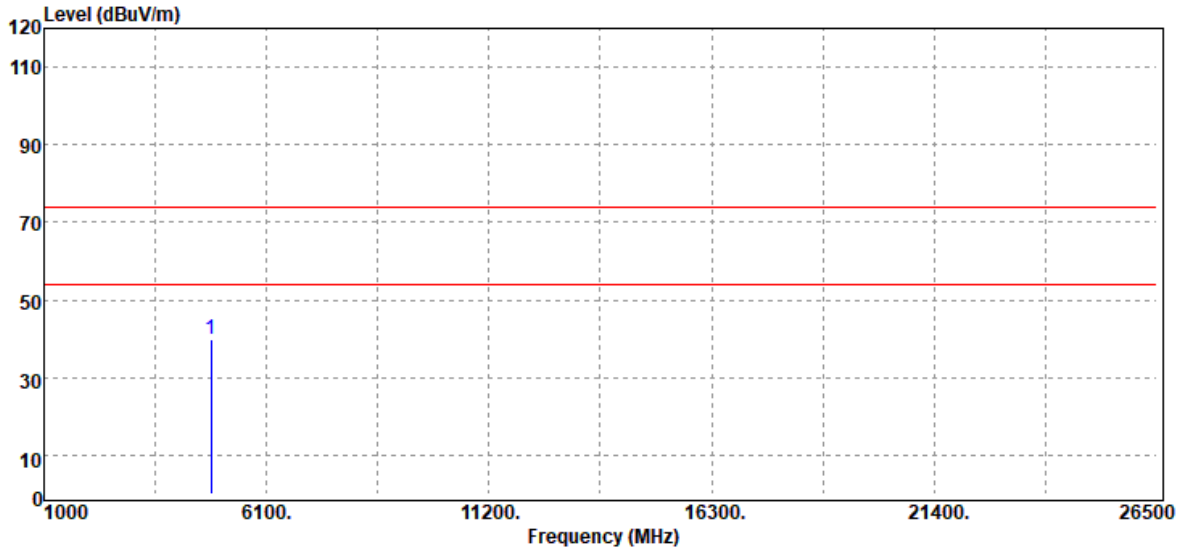
Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	46.42	-6.40	40.02	74.00	-33.98	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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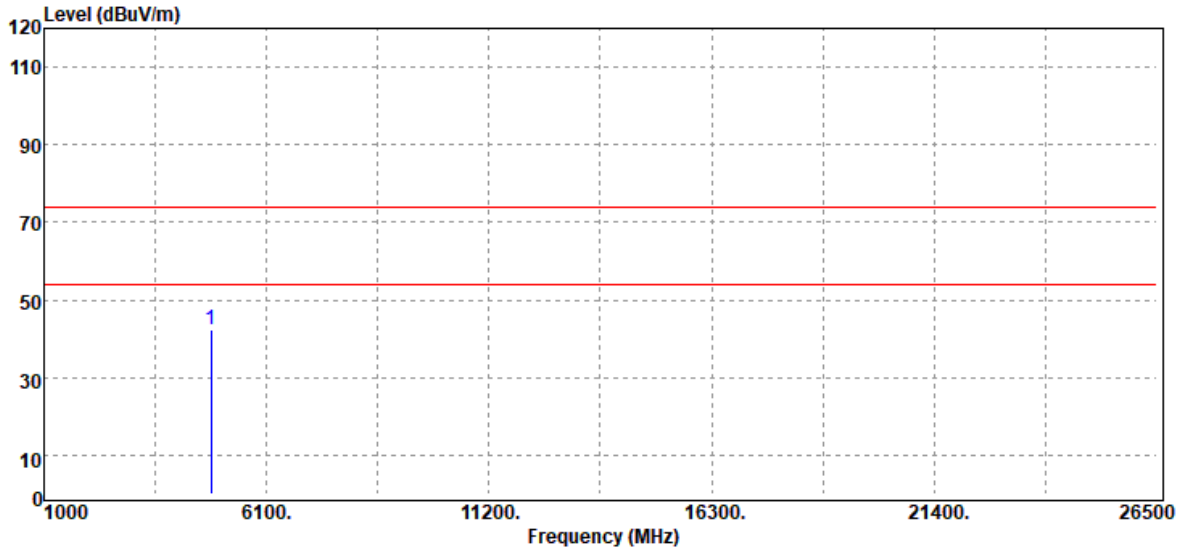
Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	48.56	-6.40	42.16	74.00	-31.84	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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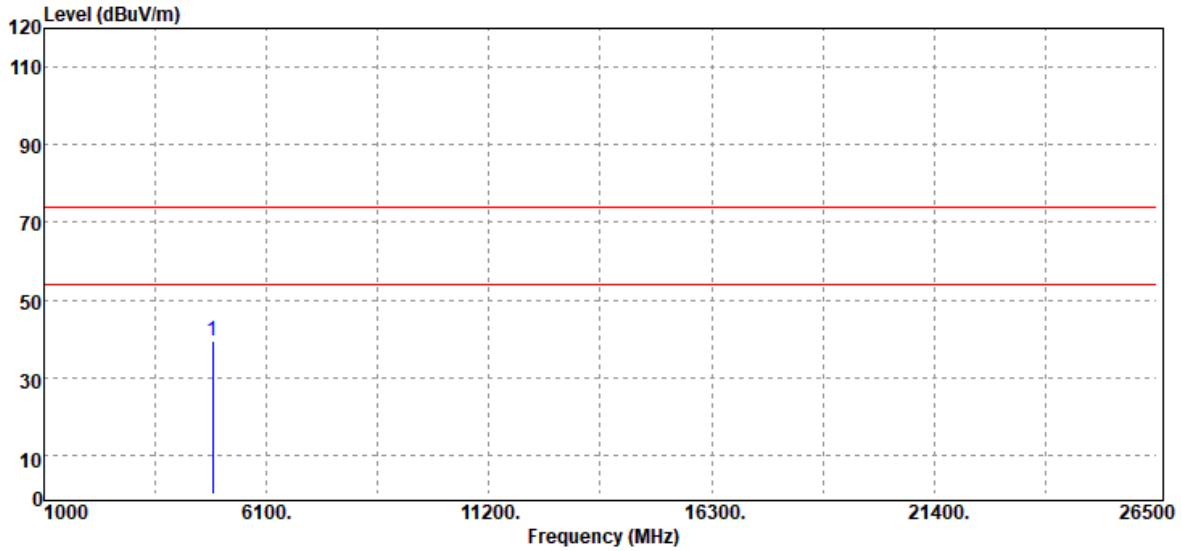
Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	45.77	-6.25	39.52	74.00	-34.48	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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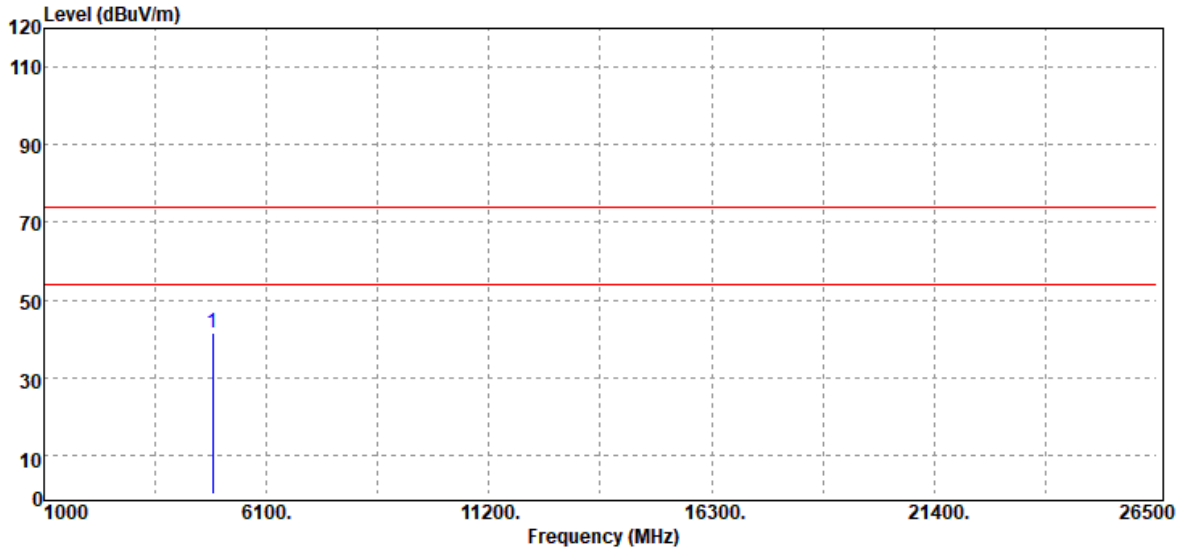
Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB	Remark
4874.00	47.89	-6.25	41.64	74.00	-32.36	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

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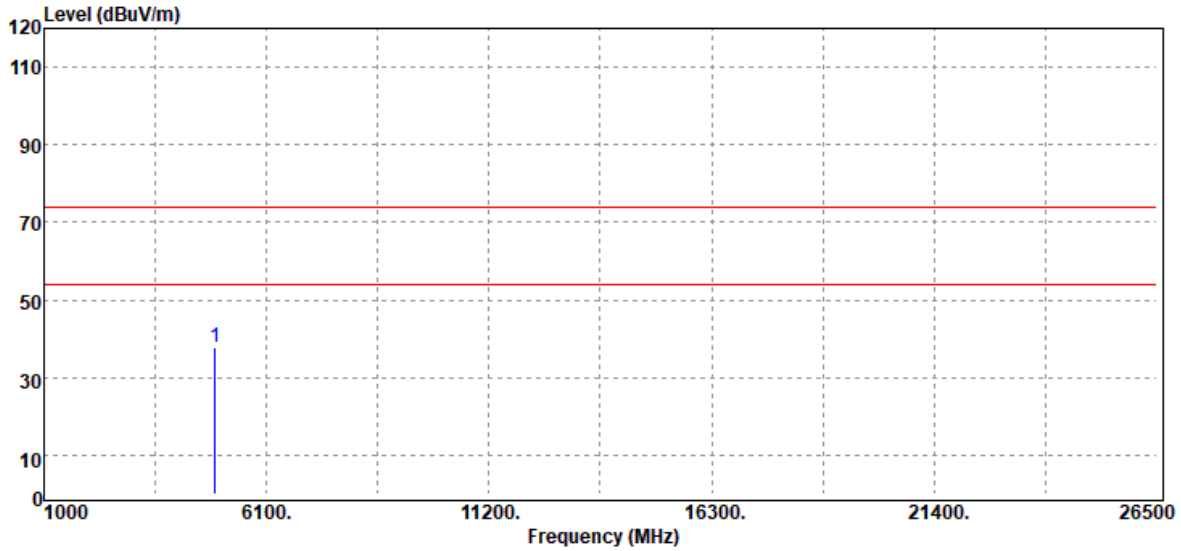
Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	43.71	-5.86	37.85	74.00	-36.15	Peak

Remark:

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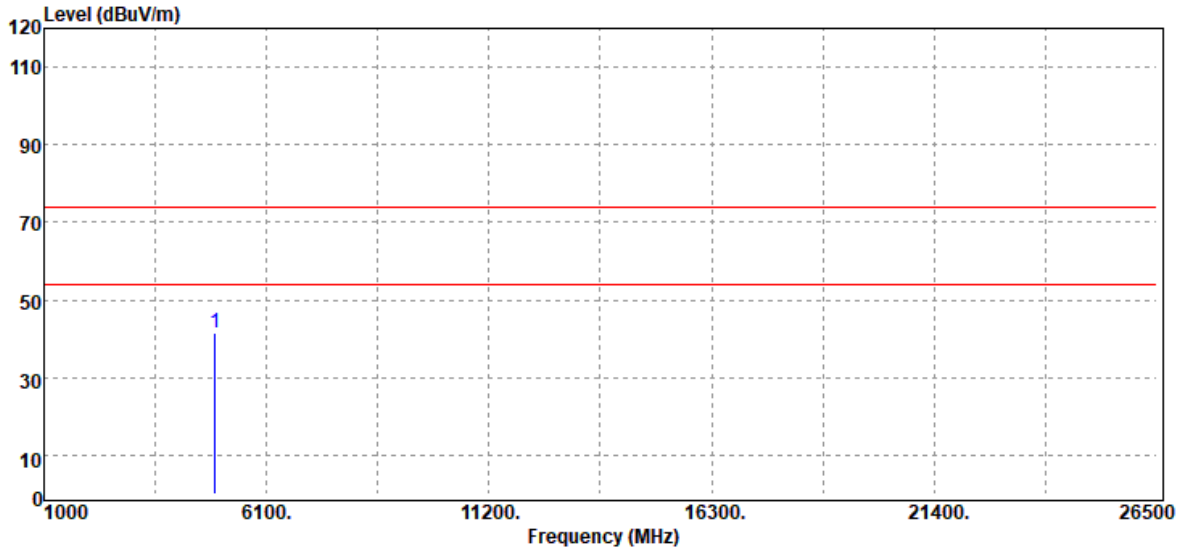
Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27.1(℃)/ 53.1%RH
Test Item	Harmonic	Test Date	October 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	47.28	-5.86	41.42	74.00	-32.58	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

--End of Test Report--

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