TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: **47 CFR FCC Part 15, Subpart C (Section 15.247)**

Report No.: RFBCZY-WTW-P22110731

FCC ID: AU792U22L14872

Product: MiniPCIe 802.11ac WiFi module

Brand: Multi-Tech Systems Inc. , www.multitech.com

Model No.: MTWM-0000T0

Received Date: 2022/12/5

Test Date: 2023/2/2 ~ 2023/2/15

Issued Date: 2023/3/3

Applicant: Multi-Tech Systems Inc.

Address: 2205 Woodale Drive, Mounds View, MN 55112 U.S.A

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / Designation Number: 723255 / TW2022

Approved by: _____ , **Date:** 2023/3/3

May Chen / Manager

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Prepared by : Vivian Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCZY-WTW-P22110731	Original release.	2023/3/3

1 Certificate

Product:	MiniPCIe 802.11ac WiFi module
Brand:	Multi-Tech Systems Inc. , www.multitech.com
Test Model:	MTWM-0000T0
Sample Status:	Mass product
Applicant:	Multi-Tech Systems Inc.
Test Date:	2023/2/2 ~ 2023/2/15
Standard:	47 CFR FCC Part 15, Subpart C (Section 15.247)
Measurement procedure:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.47 dB at 0.42734 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.7 dB at 37.00 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 2390.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is R-SMA not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Expanded Uncertainty (k=2) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.5 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	MiniPCIe 802.11ac WiFi module
Brand	Multi-Tech Systems Inc. , www.multitech.com
Test Model	MTWM-0000T0
Status of EUT	Mass product
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20: 11 802.11n (HT40), VHT40: 7
Output Power	376.844 mW (25.76 dBm)

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4 GHz)	WLAN (5 GHz)
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

2. The EUT has below SKUs designs as following table:

SKU No.	Description
A	2.4GHz With Jump
B	2.4GHz Without Jump

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	Cable Length	Cable Loss(dB)	excluding cable loss Antenna Gain(dBi)
1	0	ARISTO TLE	RFA-25-F17M3-B-10069	2 3	2.4~2.4835GHz 5.15~5.85GHz	Dipole	R-SMA	10cm	0.5	2.5 3.5
2	1	ARISTO TLE	RFA-25-F17M3-B-10069	2 3	2.4~2.4835GHz 5.15~5.85GHz	Dipole	R-SMA	10cm	0.5	2.5 3.5
3	2	ARISTO TLE	RFA-25-F17M3-B-10069	2 3	2.4~2.4835GHz 5.15~5.85GHz	Dipole	R-SMA	10cm	0.5	2.5 3.5
4	3	ARISTO TLE	RFA-25-F17M3-B-10069	2 3	2.4~2.4835GHz 5.15~5.85GHz	Dipole	R-SMA	10cm	0.5	2.5 3.5

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	**TX & RX Configuration**	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX

Note:
1. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz) and VHT mode for 20 MHz (40 MHz), therefore the manufacturer will control the power for 802.11n mode is the same as the VHT mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20:

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n (HT40), VHT40:

Channel	Frequency	Channel	Frequency
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

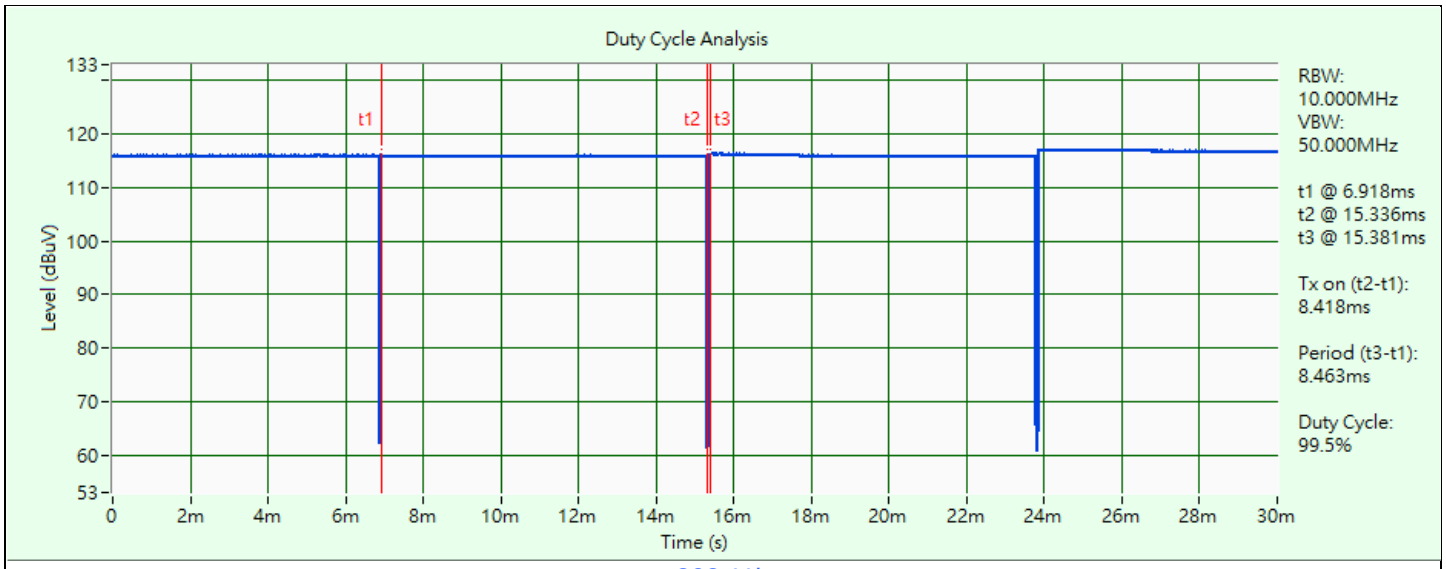
3.4 Test Mode Applicability and Tested Channel Detail

Following channel(s) was (were) selected for the final test as listed below:

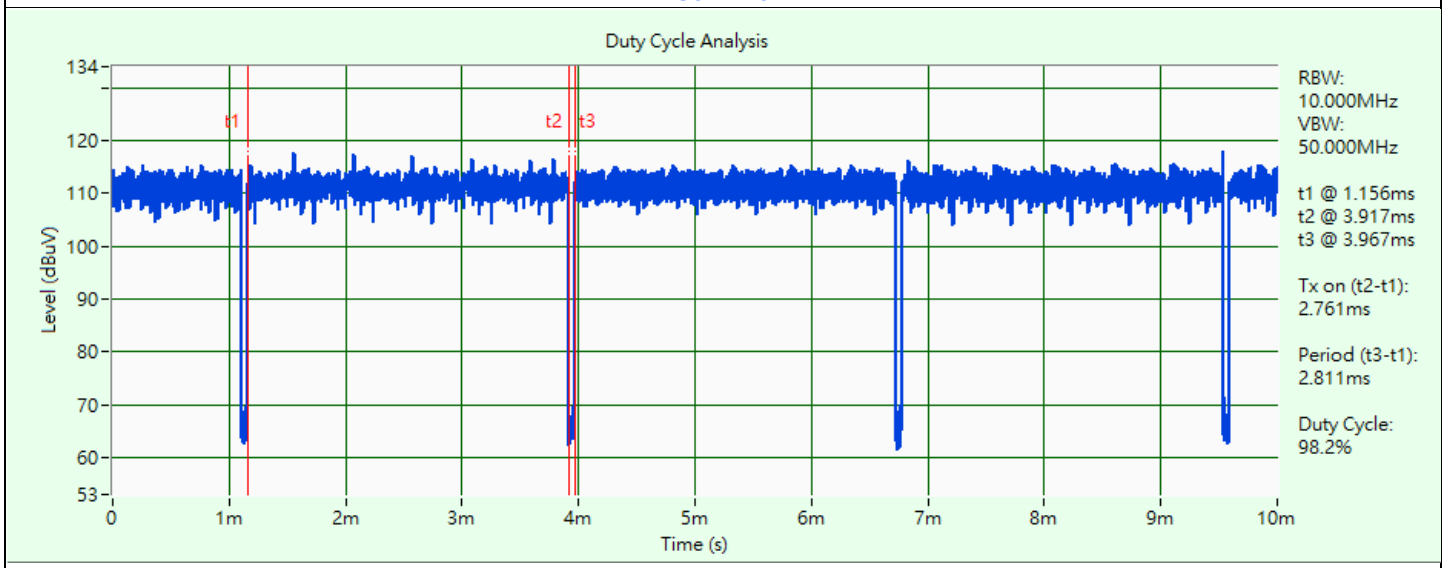
Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
	B	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
Power Spectral Density	A	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
	B	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
6 dB Bandwidth / Conducted Out of Band Emissions	A	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
	B	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	A	802.11g	1	BPSK	6Mb/s
	B	802.11b	1	DBPSK	1Mb/s
Unwanted Emissions below 1 GHz	A	802.11g	1	BPSK	6Mb/s
	B	802.11b	1	DBPSK	1Mb/s
Unwanted Emissions above 1 GHz	A	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
	B	802.11b	1, 6, 11	DBPSK	1Mb/s
		802.11g	1, 6, 11	BPSK	6Mb/s
		VHT20	1, 6, 11	BPSK	MCS0
		VHT40	3, 6, 9	BPSK	MCS0
EUT Configure Mode:	A	With Jump			
	B	Without Jump			

3.5 Duty Cycle of Test Signal

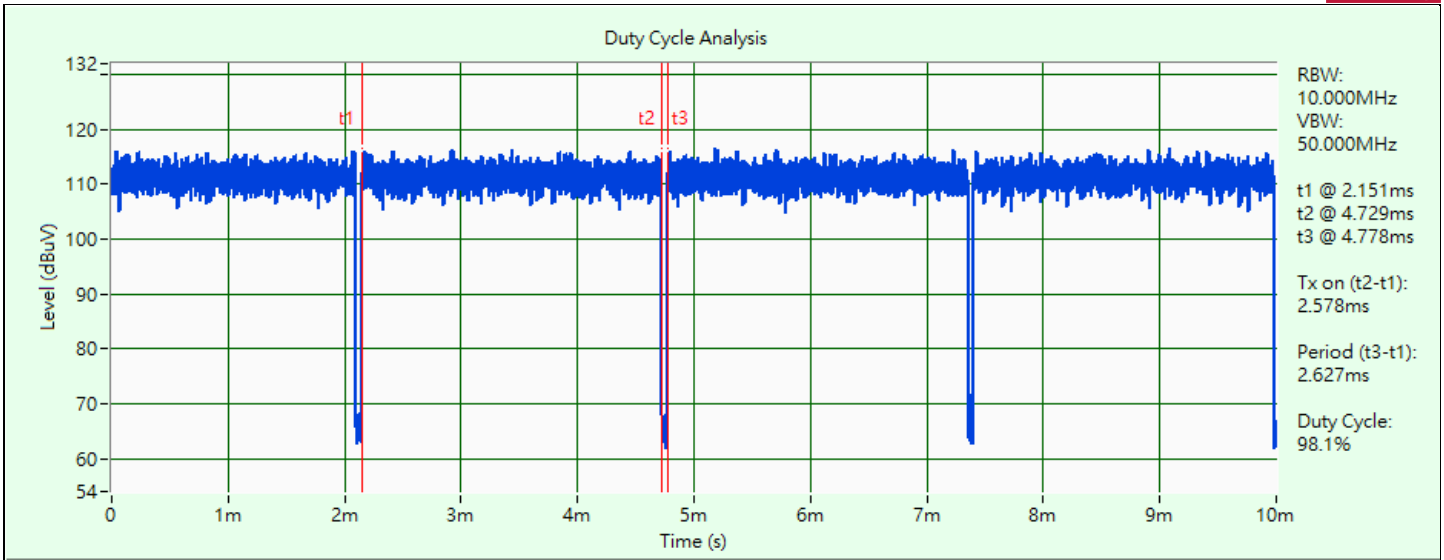
802.11b: Duty cycle = 8.418 ms / 8.463 ms x 100% = 99.5%
802.11g: Duty cycle = 2.761 ms / 2.811 ms x 100% = 98.2%
VHT20: Duty cycle = 2.578 ms / 2.627 ms x 100% = 98.1%
VHT40: Duty cycle = 2.477 ms / 2.526 ms x 100% = 98.1%



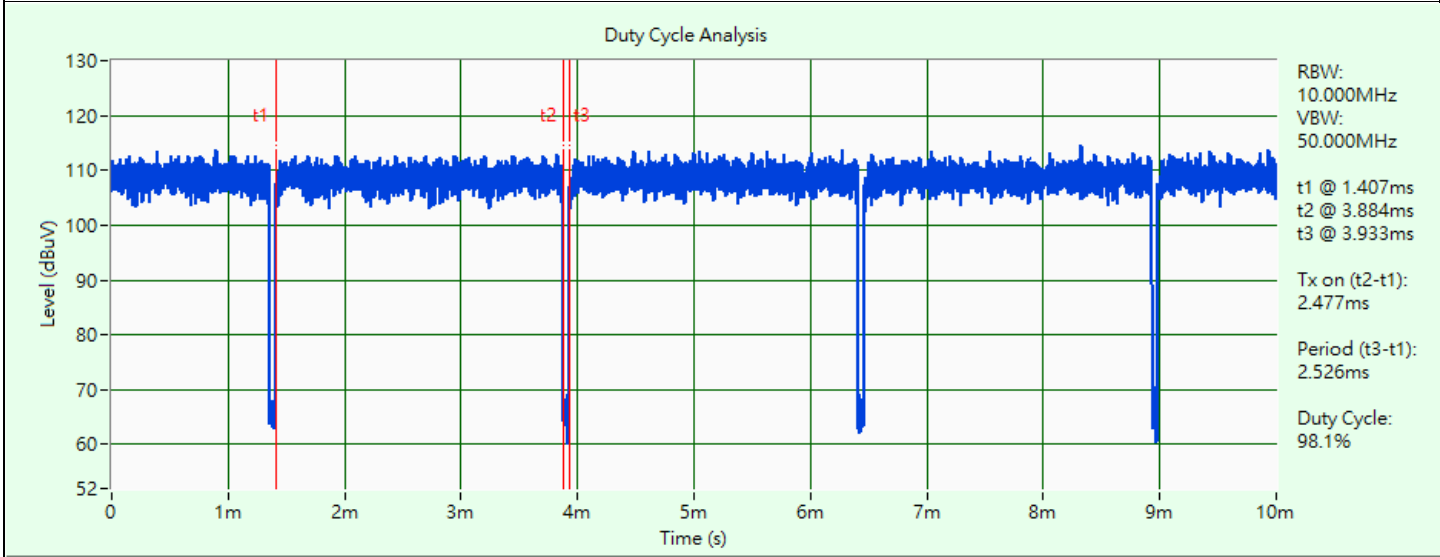
802.11b



802.11g


Duty Cycle Analysis
Level (dBuV)
Time (s)
t1
t2
t3
RBW:
10.000MHz
VBW:
50.000MHz
t1 @ 2.151ms
t2 @ 4.729ms
t3 @ 4.778ms
Tx on (t2-t1):
2.578ms
Period (t3-t1):
2.627ms
Duty Cycle:
98.1%

VHT20

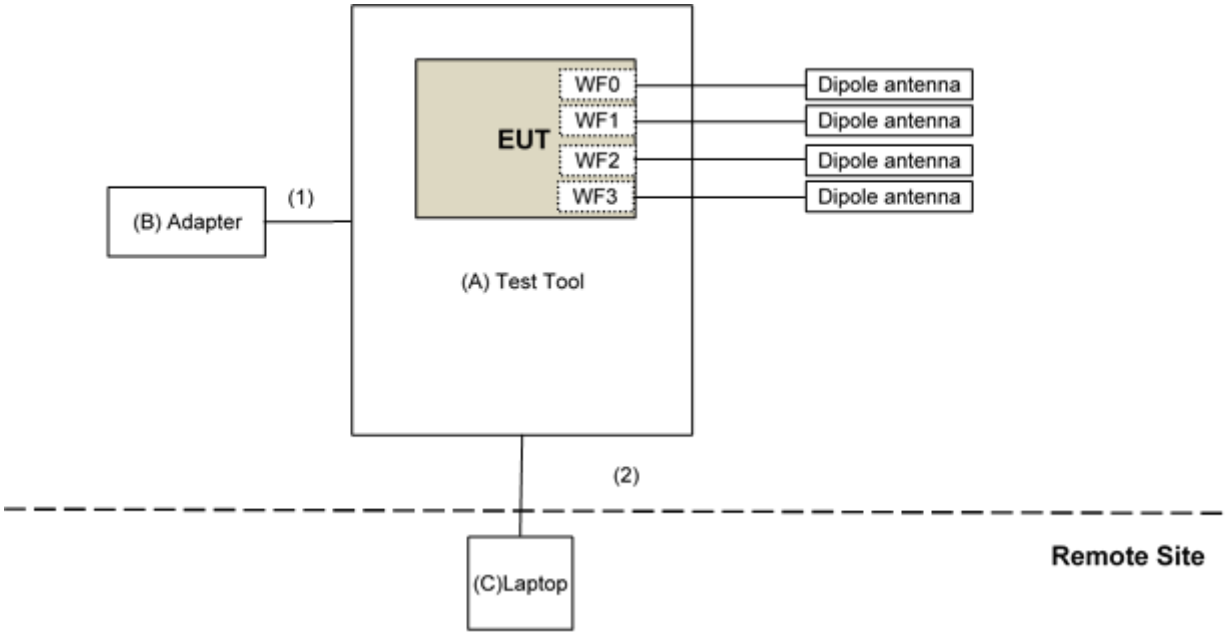

Duty Cycle Analysis
Level (dBuV)
Time (s)
t1
t2
t3
RBW:
10.000MHz
VBW:
50.000MHz
t1 @ 1.407ms
t2 @ 3.884ms
t3 @ 3.933ms
Tx on (t2-t1):
2.477ms
Period (t3-t1):
2.526ms
Duty Cycle:
98.1%

VHT40

3.6 Test Program Used and Operation Descriptions

Controlling software (MT7615 QA 0.0.2.0) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Test Tool	Multi-Tech Systems Inc.	N/A	N/A	N/A	Supplied by applicant
B	Adapter	POWERTRON Electronics Corp.	PA1024-120IB200	N/A	N/A	Supplied by applicant
C	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	No	0	Supplied by applicant
2	RJ45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/2/12

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2022/3/11	2023/3/10

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/2/12

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
Fixed attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2022/10/14	2023/10/13

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/2/15

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2022/9/14	2023/9/13
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	2022/10/4	2023/10/3
RF Coaxial Cable COMMATE/PEWC	8D	966-3-2	2022/2/26	2023/2/25
		966-3-3	2022/2/26	2023/2/25
		966-4-1	2022/3/8	2023/3/7
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Test Receiver KEYSIGHT	N9038A	MY59050100	2022/6/20	2023/6/19
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-361	2022/10/21	2023/10/20

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/2/15

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9170	9170-739	2022/11/13	2023/11/12
	BBHA9120-D	9120D-406	2022/11/13	2023/11/12
Pre_Amplifier EMCI	EMC12630SE	980384	2022/12/28	2023/12/27
	EMC184045SE	980387	2022/12/28	2023/12/27
RF Cable EMCI	EMC104-SM-SM-6000	210201	2022/5/10	2023/5/9
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
	EMC104-SM-SM-1500	180504	2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180601	2022/6/6	2023/6/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Test Receiver KEYSIGHT	N9038A	MY59050100	2022/6/20	2023/6/19

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/2/2 ~ 2023/2/15

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (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
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

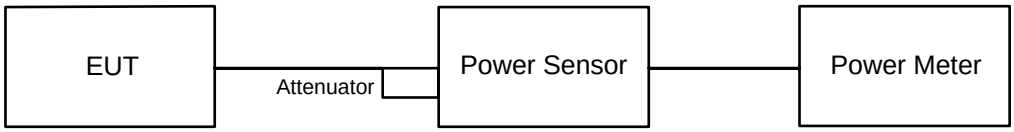
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



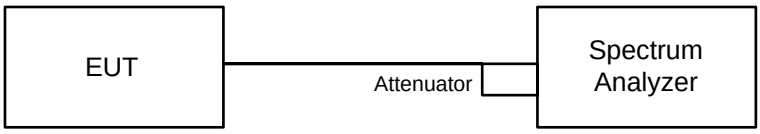
6.1.2 Test Procedure

Peak Power:
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:
Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup

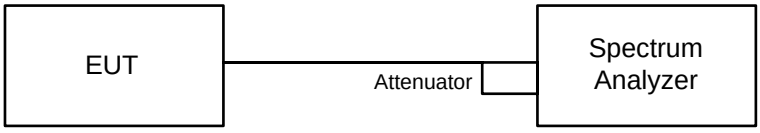


6.2.2 Test Procedure

a. Set analyzer center frequency to DTS channel center frequency.
b. Set the span to 1.5 times the DTS bandwidth.
c. Set the RBW to: 3 kHz.
d. Set the VBW ≥ 3 × RBW.
e. Detector = peak.
f. Sweep time = auto couple.
g. Trace mode = max hold.
h. Allow trace to fully stabilize.
i. Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

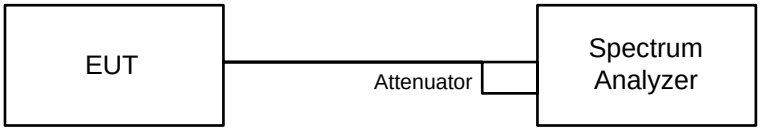


6.3.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

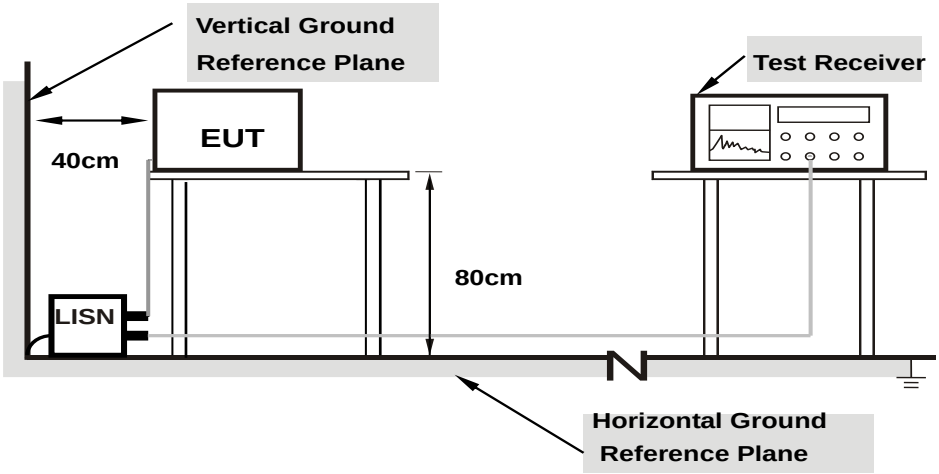
a. Set the RBW = 100 kHz.
b. Set the VBW ≥ 300 kHz.
c. Detector = peak.
d. Sweep time = auto couple.
e. Trace mode = max hold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

a. Set RBW = 100 kHz.
b. Set VBW ≥ 300 kHz.
c. Detector = peak.
d. Sweep = auto couple.
e. Trace Mode = max hold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

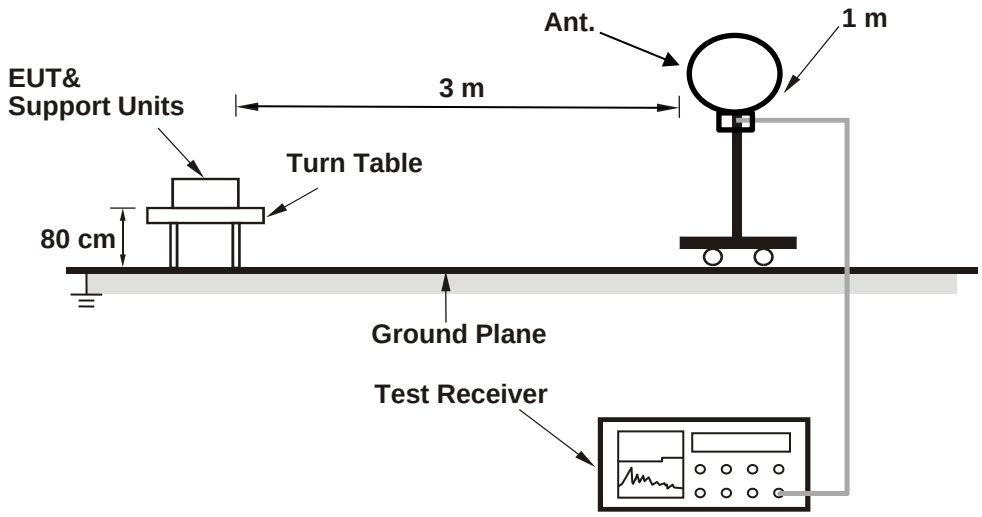
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

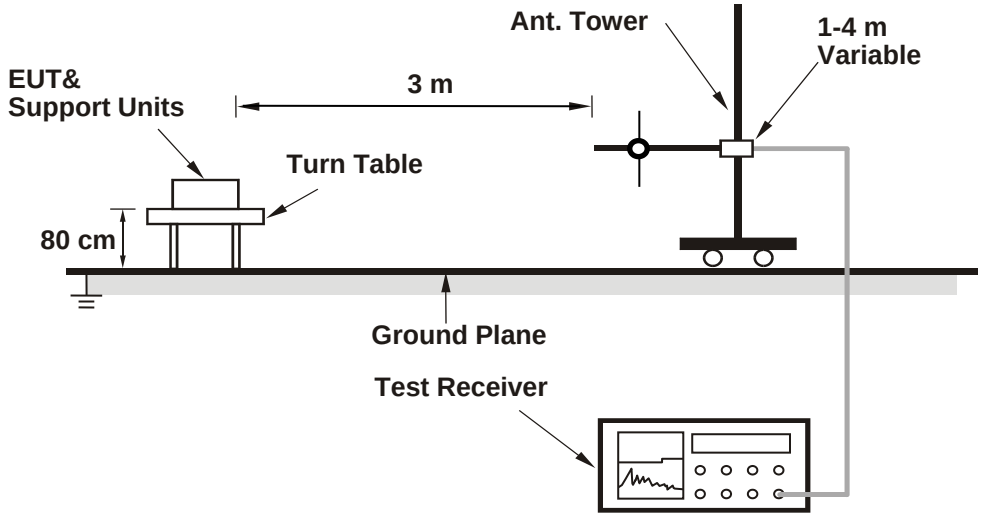
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

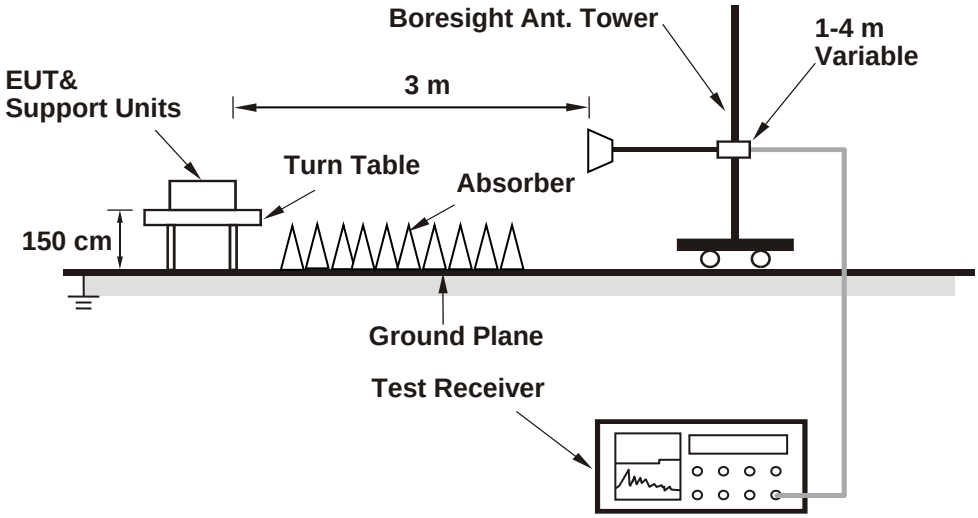
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Mode A

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	18.06	17.41	119.054	20.76	30	Pass
6	2437	18.04	17.45	119.27	20.77	30	Pass
11	2462	19.47	18.94	166.855	22.22	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	22.11	23.31	376.844	25.76	30	Pass
6	2437	21.65	21.01	272.4	24.35	30	Pass
11	2462	21.31	22.47	311.811	24.94	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.83	23.17	359.897	25.56	30	Pass
6	2437	21.91	21.14	285.256	24.55	30	Pass
11	2462	21.34	22.21	302.486	24.81	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	20.34	21.12	237.563	23.76	30	Pass
6	2437	21.28	22.13	297.582	24.74	30	Pass
9	2452	19.27	20.39	193.924	22.88	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.11	15.39	75.426	18.78
6	2437	16.12	15.51	76.489	18.84
11	2462	17.79	16.59	105.721	20.24

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.98	17.85	123.76	20.93
6	2437	18.92	16.06	118.348	20.73
11	2462	16.17	15.54	77.21	18.88

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.92	16.97	98.978	19.96
6	2437	18.86	16.23	118.889	20.75
11	2462	16.13	15.47	76.257	18.82

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	13.29	13.28	42.612	16.30
6	2437	16.62	16.15	87.13	19.40
9	2452	12.78	12.19	35.525	15.51

Mode B

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.62	20.68	232.295	23.66	30	Pass
6	2437	17.05	16.97	100.473	20.02	30	Pass
11	2462	19.93	19.31	183.711	22.64	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	22.12	22.92	358.814	25.55	30	Pass
6	2437	21.08	21.03	254.998	24.07	30	Pass
11	2462	22.24	22.84	359.803	25.56	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.84	22.33	323.758	25.10	30	Pass
6	2437	21.16	21.15	260.934	24.17	30	Pass
11	2462	21.88	22.74	342.102	25.34	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	19.45	20.92	211.7	23.26	30	Pass
6	2437	20.55	21.68	260.732	24.16	30	Pass
9	2452	19.05	20.81	200.856	23.03	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.85	18.32	144.657	21.60
6	2437	15.02	14.94	62.958	17.99
11	2462	17.88	16.92	110.58	20.44

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	15.87	15.69	75.705	18.79
6	2437	18.48	16.13	111.49	20.47
11	2462	16.28	15.63	79.021	18.98

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	14.81	14.66	59.511	17.75
6	2437	18.34	16.41	111.986	20.49
11	2462	15.18	14.70	62.473	17.96

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	11.73	12.55	32.882	15.17
6	2437	15.22	15.42	68.1	18.33
9	2452	12.31	12.16	33.465	15.25

7.2 Power Spectral Density

Mode A

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-3.45	-2.38	0.13	8	Pass
6	2437	-3.18	-4.09	-0.60	8	Pass
11	2462	-3.30	-2.52	0.12	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-6.55	-5.58	-3.03	8	Pass
6	2437	-4.77	-7.10	-2.77	8	Pass
11	2462	-9.42	-7.18	-5.15	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-6.95	-6.45	-3.68	8	Pass
6	2437	-4.63	-6.34	-2.39	8	Pass
11	2462	-9.01	-7.56	-5.21	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

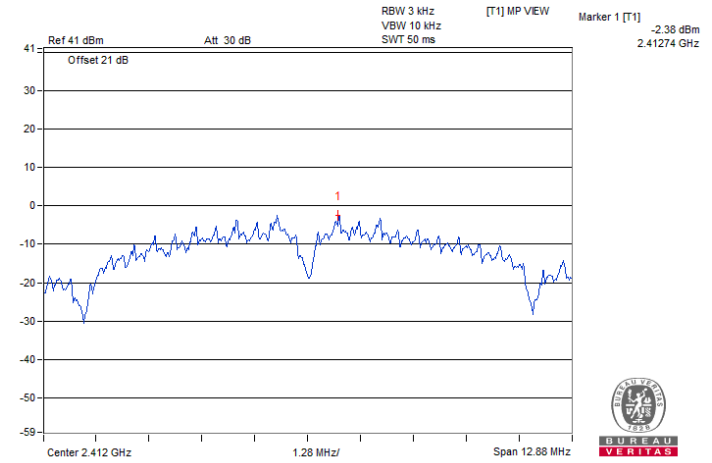
VHT40

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-13.59	-11.74	-9.56	8	Pass
6	2437	-10.61	-11.57	-8.05	8	Pass
9	2452	-13.97	-14.36	-11.15	8	Pass

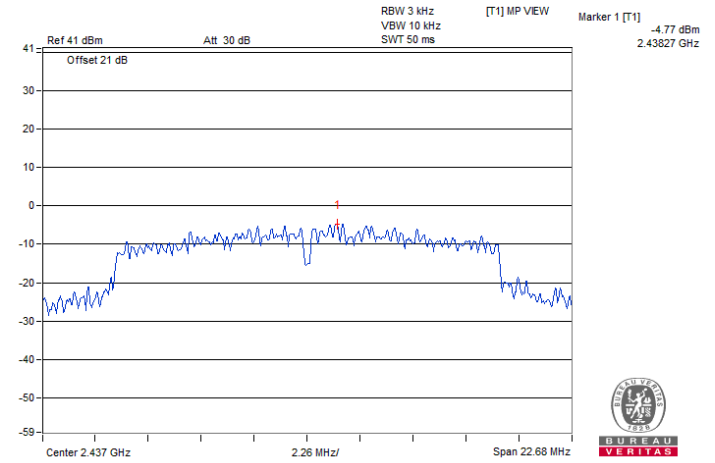
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

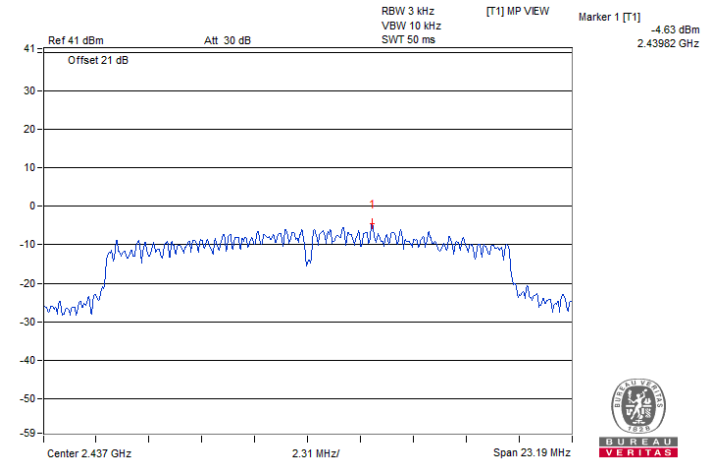
Spectrum Plot of Maximum Value



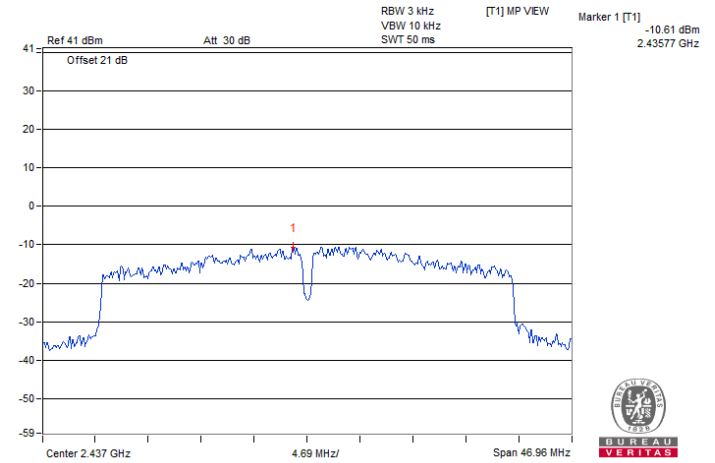
802.11b / Chain 1 : CH 1



802.11g / Chain 0 : CH 6



VHT20 / Chain 0 : CH 6



VHT40 / Chain 0 : CH 6

Mode B

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-0.94	-1.63	1.74	8	Pass
6	2437	-4.05	-4.19	-1.11	8	Pass
11	2462	-1.49	-2.28	1.14	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-8.28	-6.83	-4.48	8	Pass
6	2437	-5.00	-7.08	-2.91	8	Pass
11	2462	-7.23	-6.76	-3.98	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-9.42	-7.98	-5.63	8	Pass
6	2437	-5.55	-6.40	-2.94	8	Pass
11	2462	-8.41	-8.38	-5.39	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

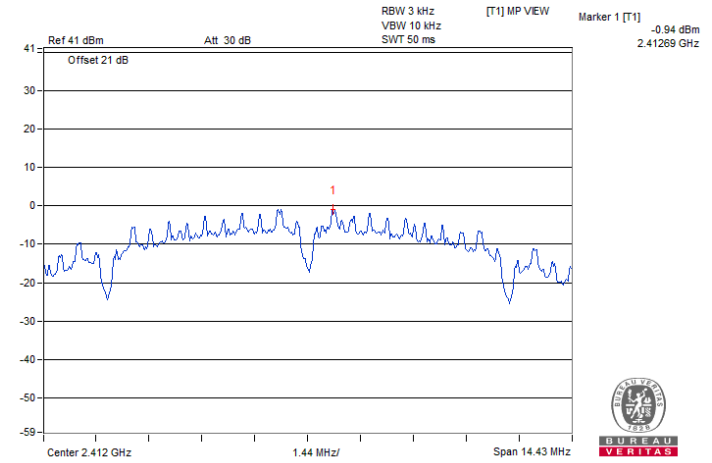
VHT40

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-15.71	-13.20	-11.27	8	Pass
6	2437	-9.32	-11.69	-7.34	8	Pass
9	2452	-14.08	-13.91	-10.98	8	Pass

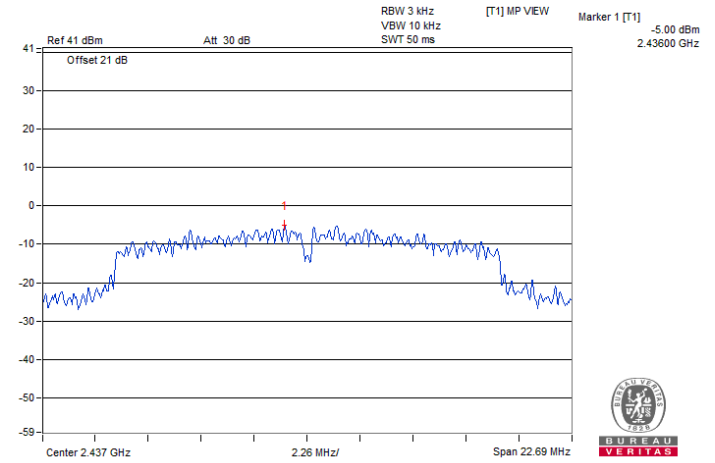
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 5.01 dBi < 6 dBi, so the power density limit shall not be reduced.

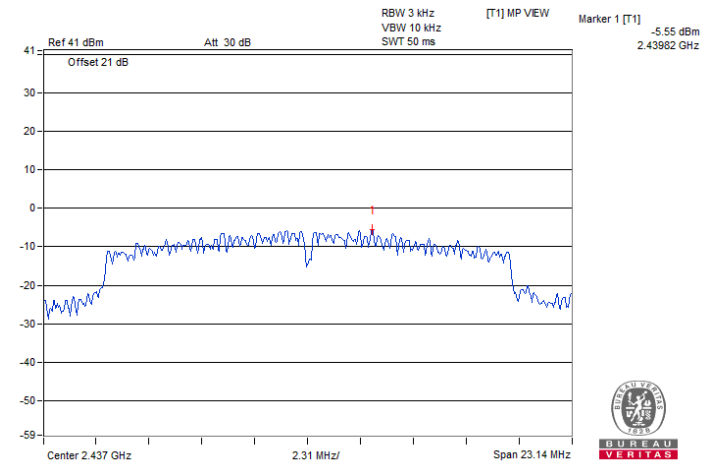
Spectrum Plot of Maximum Value



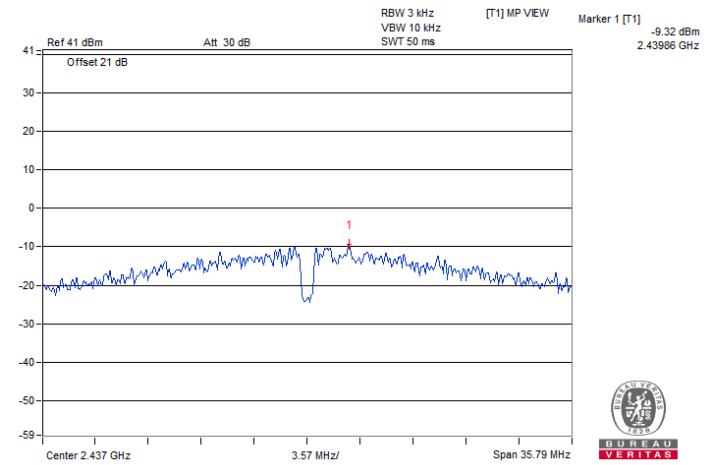
802.11b / Chain 0 : CH 1



802.11g / Chain 0 : CH 6



VHT20 / Chain 0 : CH 6



VHT40 / Chain 0 : CH 6

7.3 6 dB Bandwidth

Mode A

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	9.13	8.59	0.5	Pass
6	2437	9.10	9.12	0.5	Pass
11	2462	9.58	8.59	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.15	15.07	0.5	Pass
6	2437	15.12	15.71	0.5	Pass
11	2462	15.34	15.12	0.5	Pass

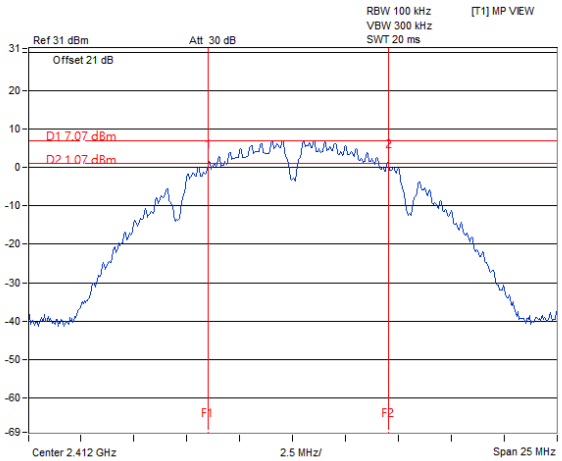
VHT20

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.16	13.87	0.5	Pass
6	2437	15.46	16.53	0.5	Pass
11	2462	16.08	15.12	0.5	Pass

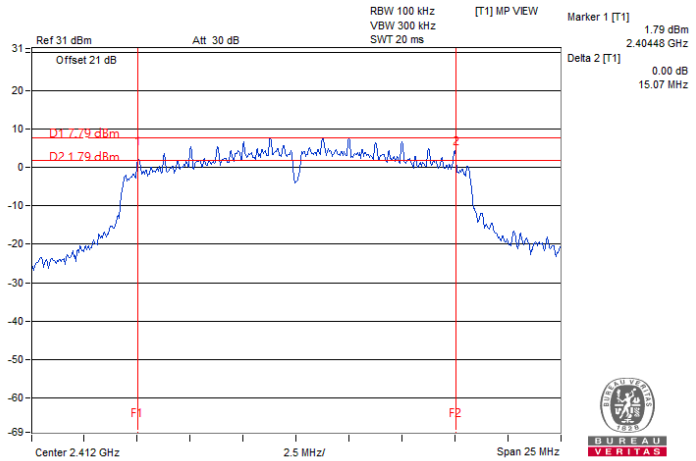
VHT40

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.34	25.06	0.5	Pass
6	2437	31.31	36.08	0.5	Pass
9	2452	30.02	32.59	0.5	Pass

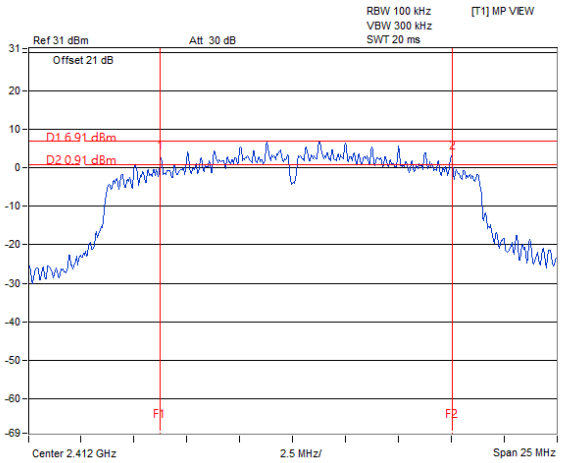
Spectrum Plot of Minimum Value



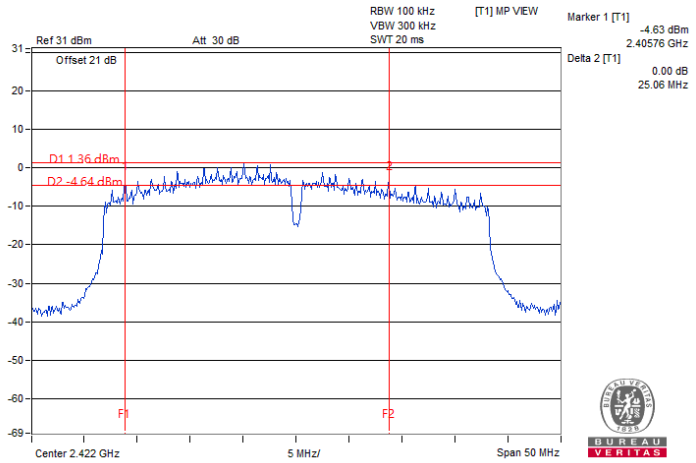
802.11b / Chain 1 : CH 1



802.11g / Chain 1 : CH 1



VHT20 / Chain 1 : CH 1



VHT40 / Chain 1 : CH 3

Mode B

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	9.62	8.12	0.5	Pass
6	2437	9.10	8.61	0.5	Pass
11	2462	9.57	8.12	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.73	13.86	0.5	Pass
6	2437	15.13	15.74	0.5	Pass
11	2462	15.16	15.10	0.5	Pass

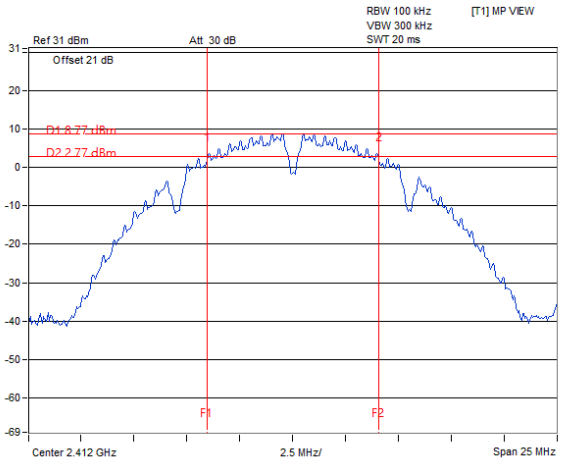
VHT20

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.35	13.87	0.5	Pass
6	2437	15.43	16.32	0.5	Pass
11	2462	15.16	15.10	0.5	Pass

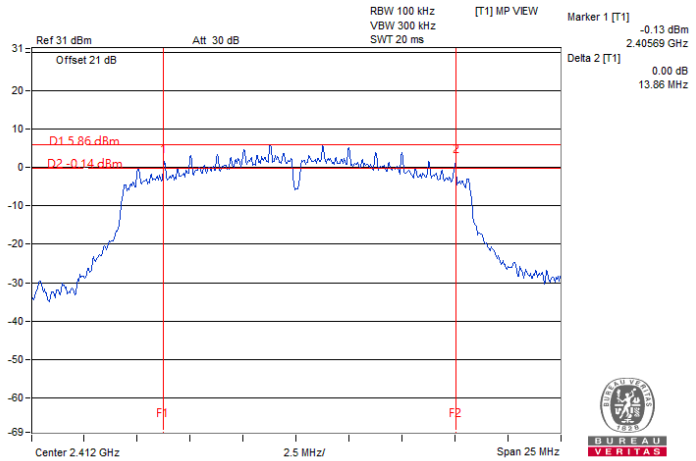
VHT40

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.89	23.86	0.5	Pass
6	2437	23.86	36.42	0.5	Pass
9	2452	28.86	28.85	0.5	Pass

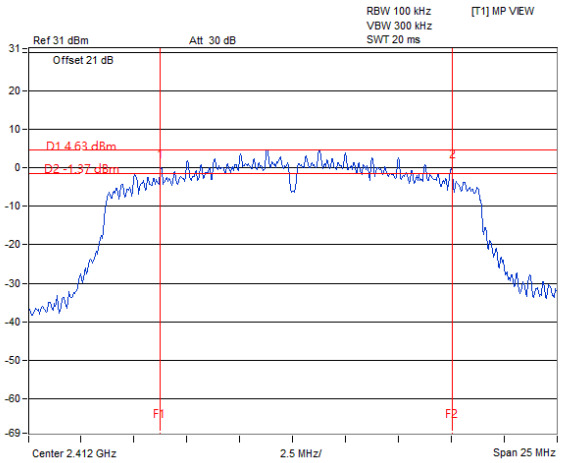
Spectrum Plot of Minimum Value



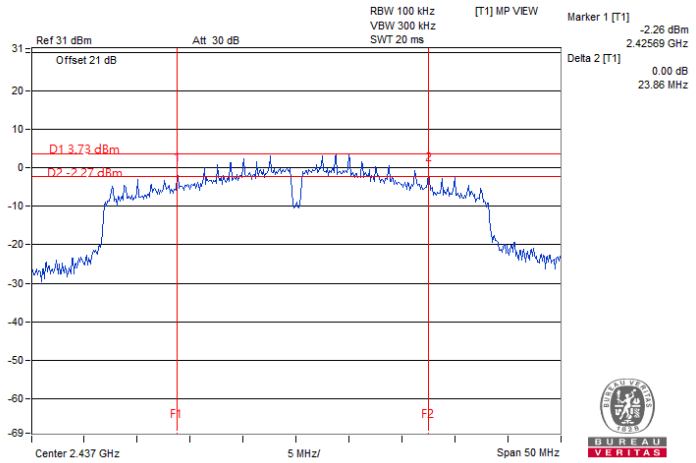
802.11b / Chain 1 : CH 1



802.11g / Chain 1 : CH 1



VHT20 / Chain 1 : CH 1



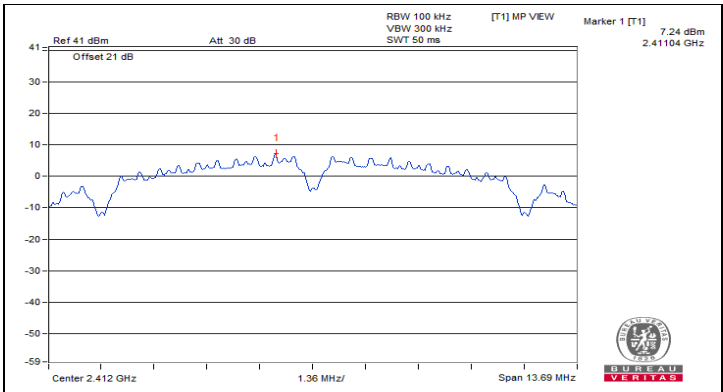
VHT40 / Chain 0 : CH 6

7.4 Conducted Out of Band Emissions

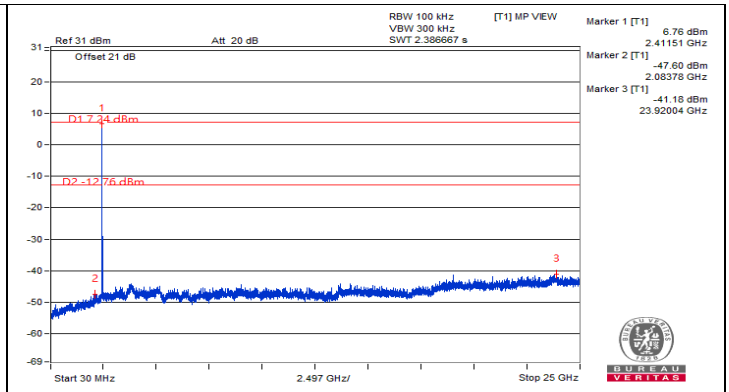
Mode A

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

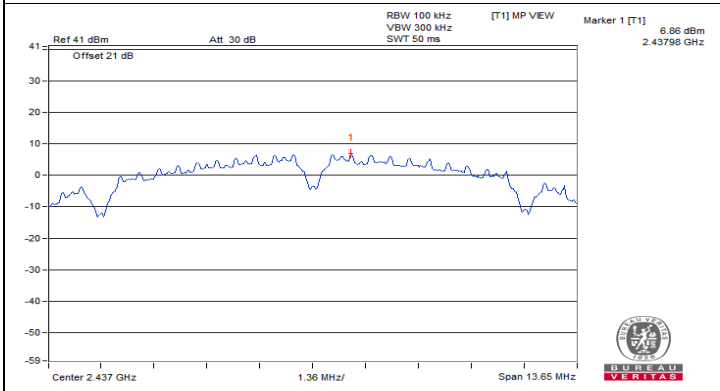
802.11b



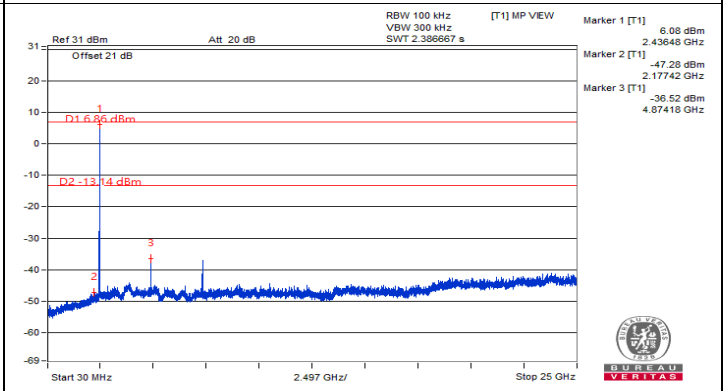
Chain 0 : CH 1



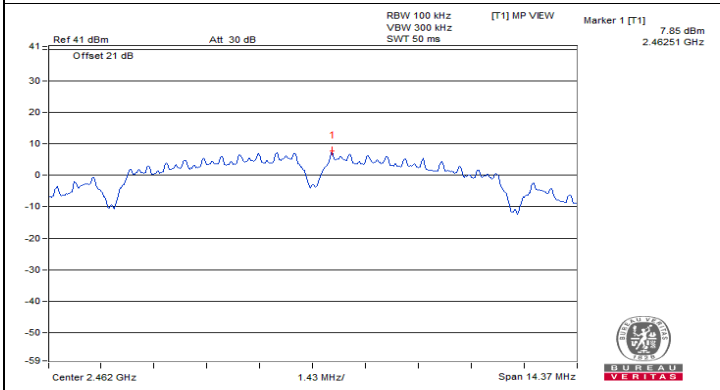
Chain 0 : CH 1



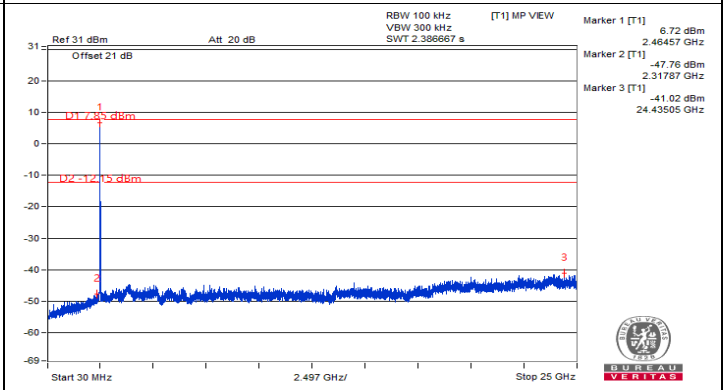
Chain 0 : CH 6



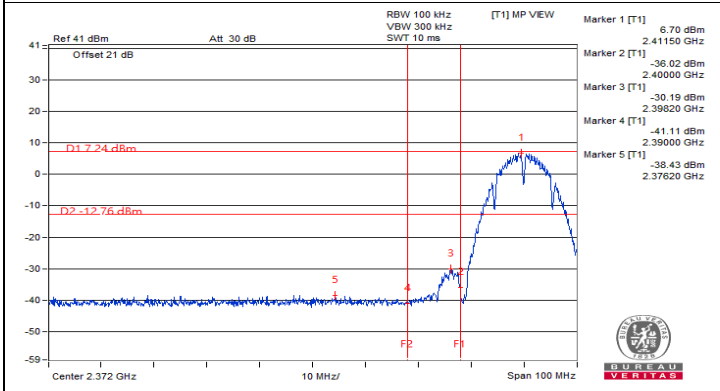
Chain 0 : CH 6



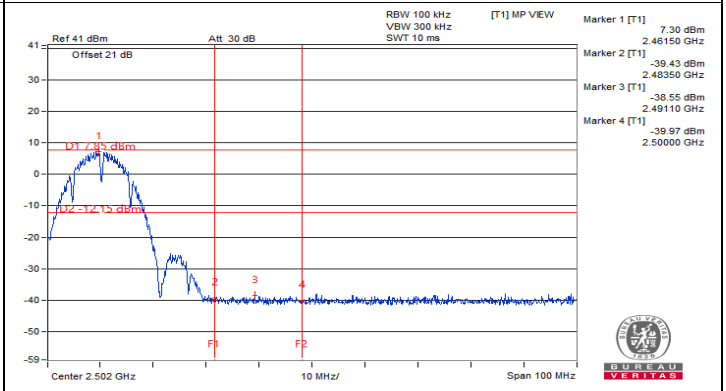
Chain 0 : CH 11



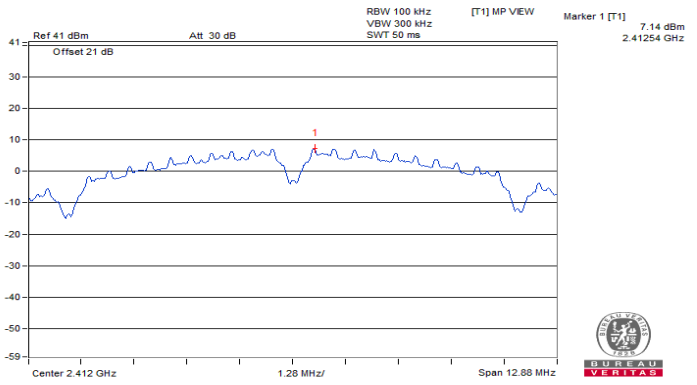
Chain 0 : CH 11



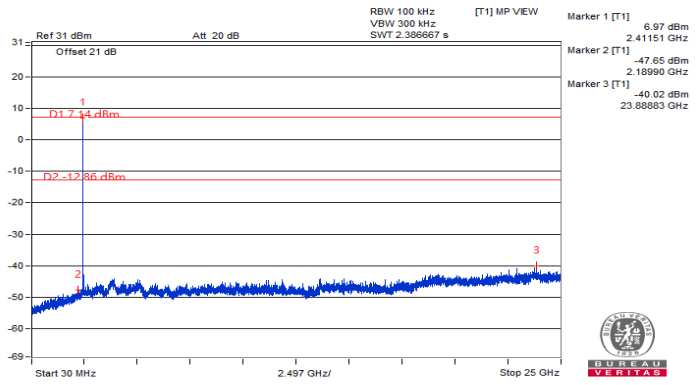
Chain 0 : CH 1 Band edge



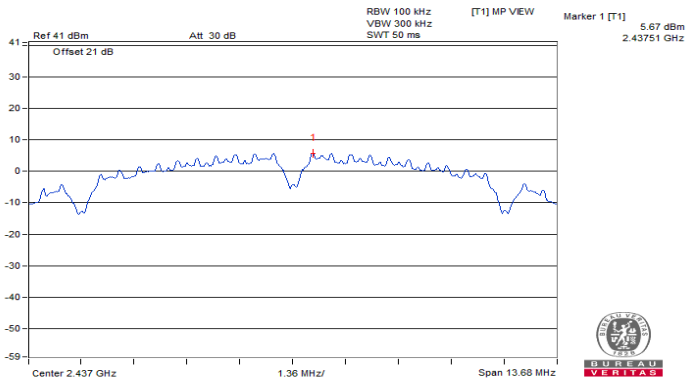
Chain 0 : CH 11 Band edge



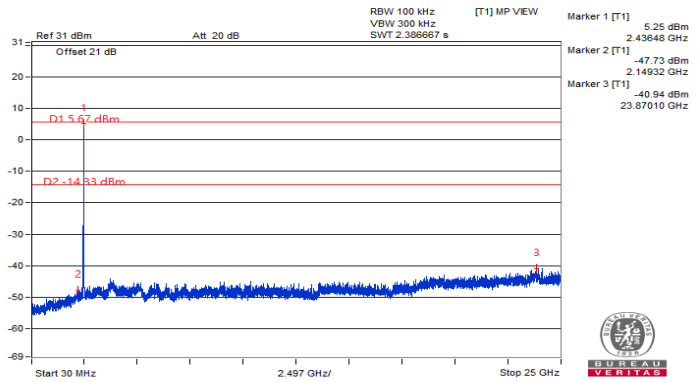
Chain 1 : CH 1



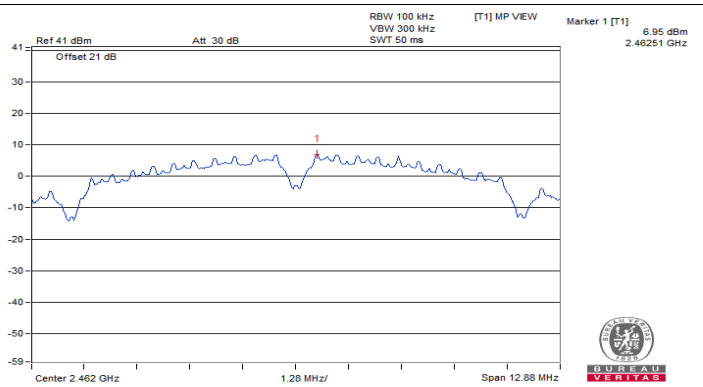
Chain 1 : CH 1



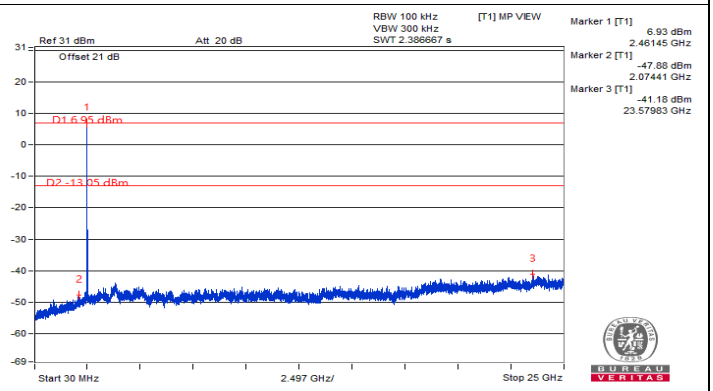
Chain 1 : CH 6



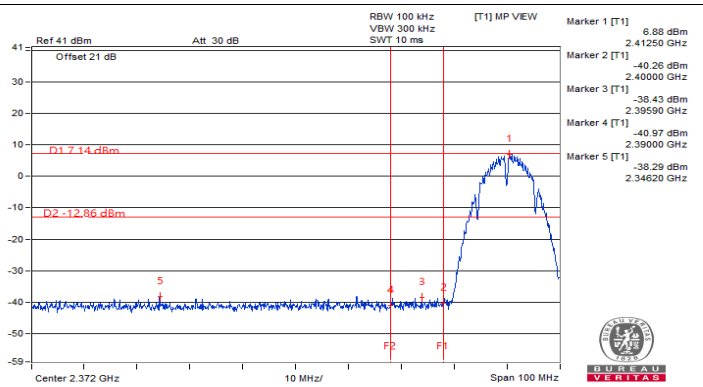
Chain 1 : CH 6



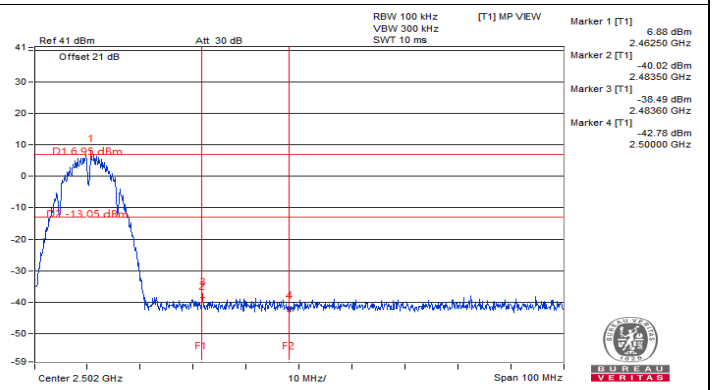
Chain 1 : CH 11



Chain 1 : CH 11

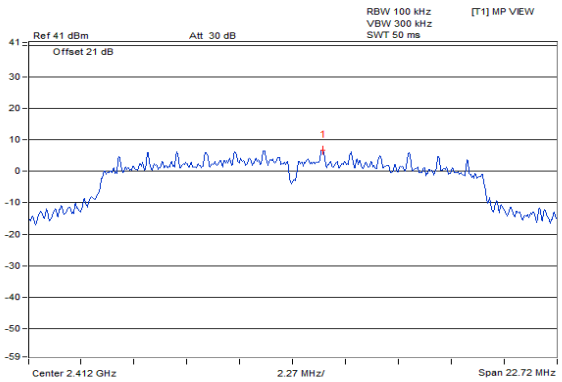


Chain 1 : CH 1 Band edge

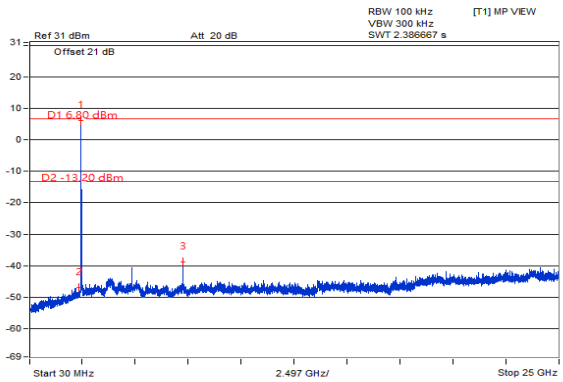


Chain 1 : CH 11 Band edge

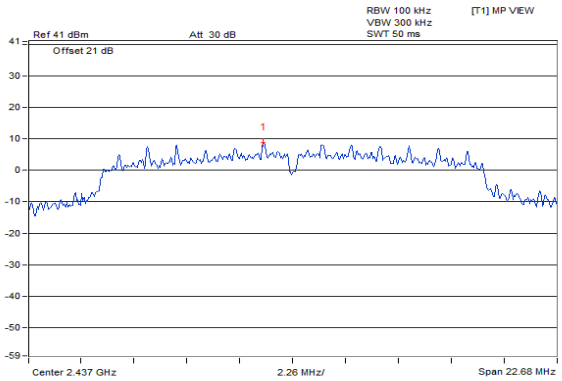
802.11g



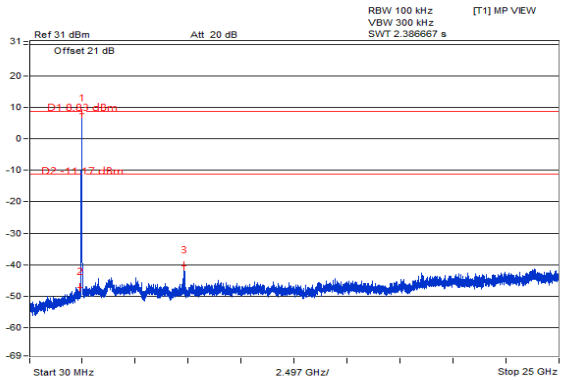
Chain 0 : CH 1



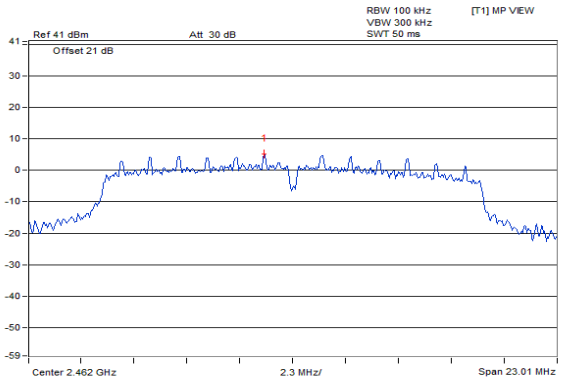
Chain 0 : CH 1



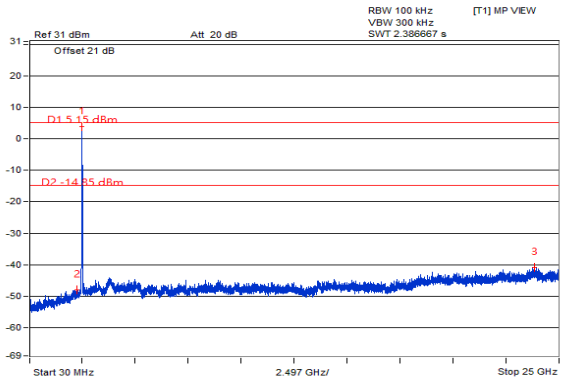
Chain 0 : CH 6



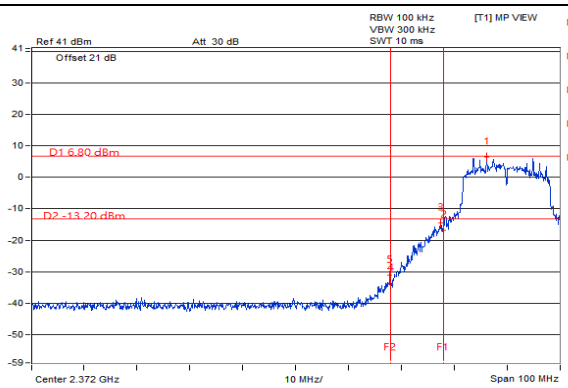
Chain 0 : CH 6



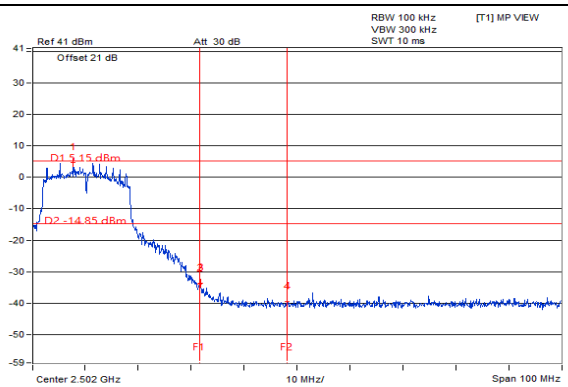
Chain 0 : CH 11



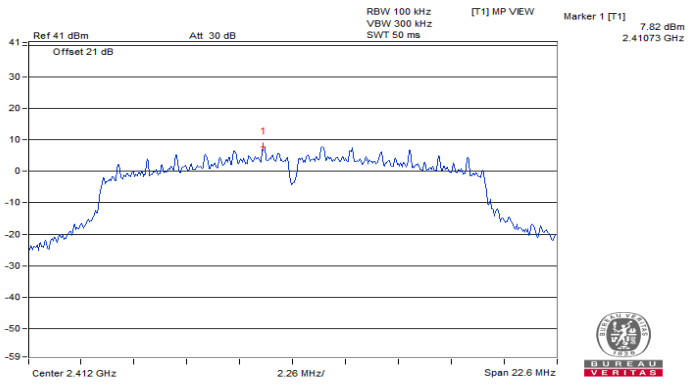
Chain 0 : CH 11



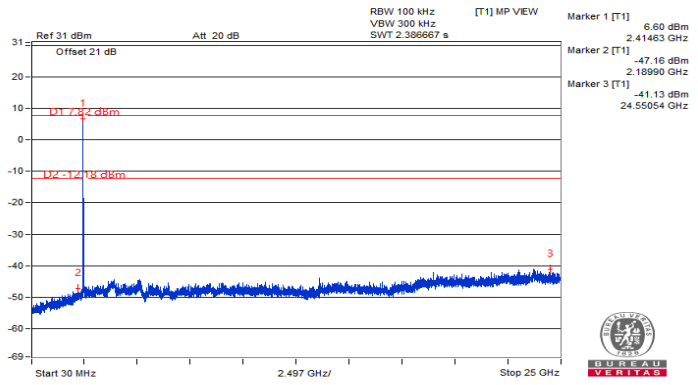
Chain 0 : CH 1 Band edge



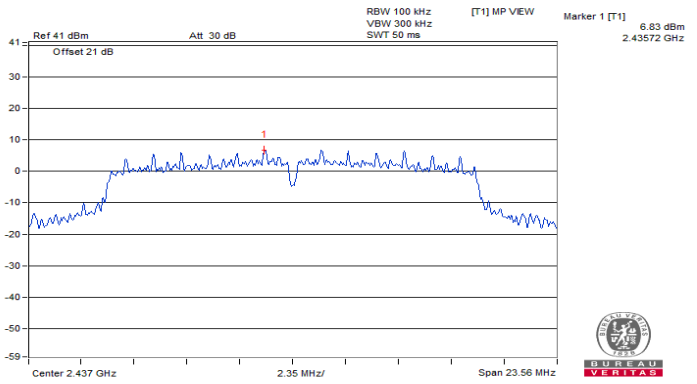
Chain 0 : CH 11 Band edge



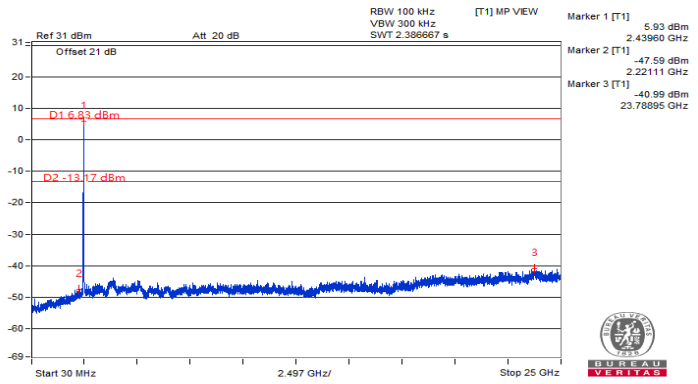
Chain 1 : CH 1



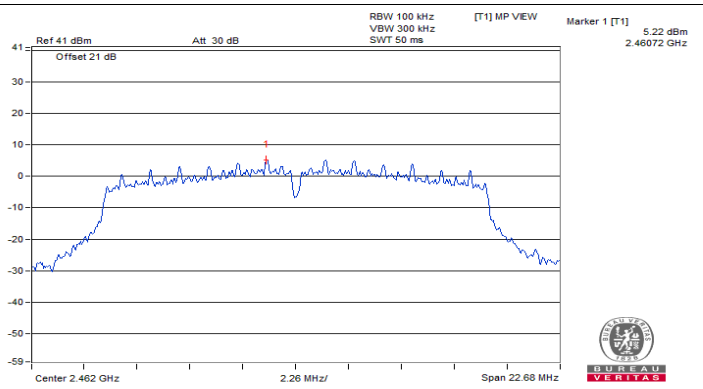
Chain 1 : CH 1



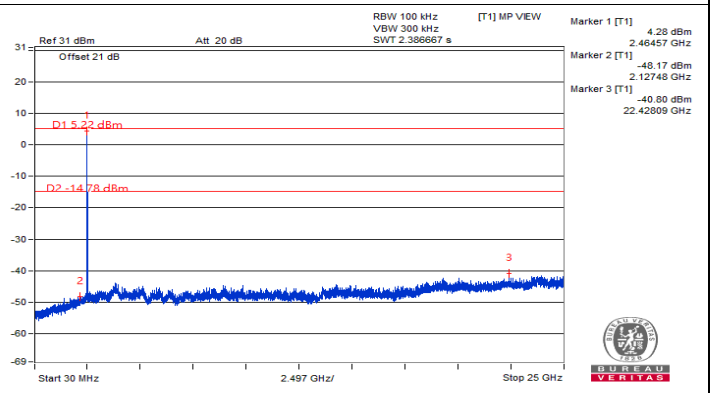
Chain 1 : CH 6



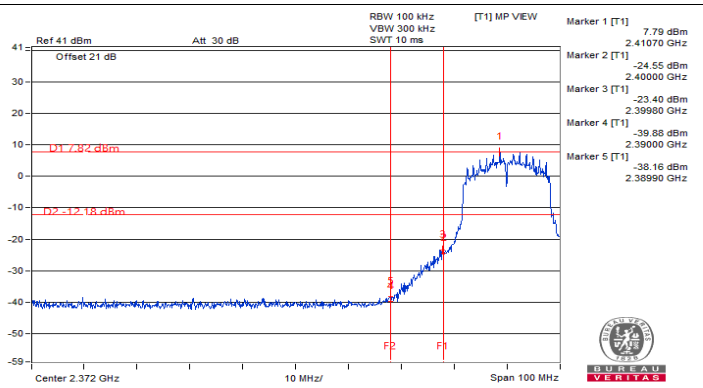
Chain 1 : CH 6



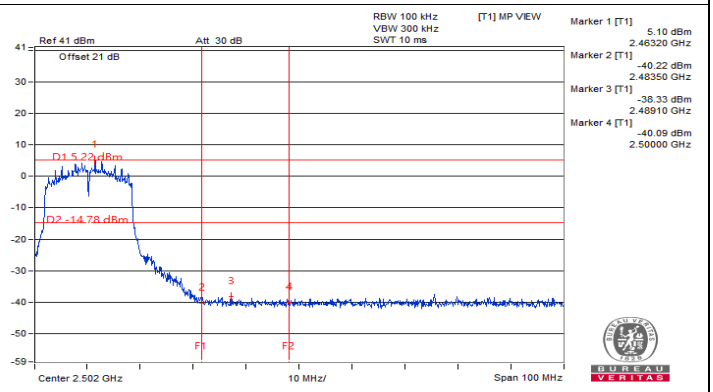
Chain 1 : CH 11



Chain 1 : CH 11

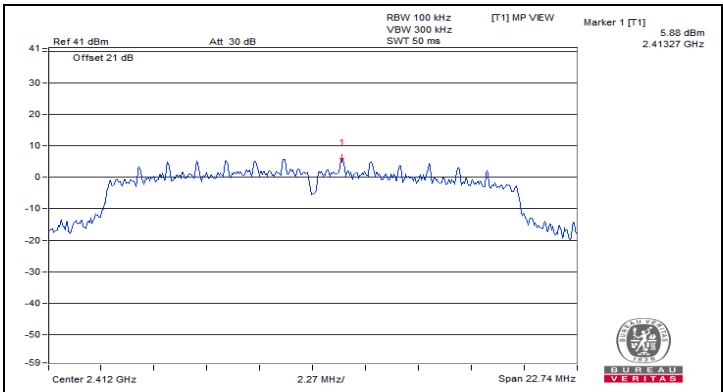


Chain 1 : CH 1 Band edge

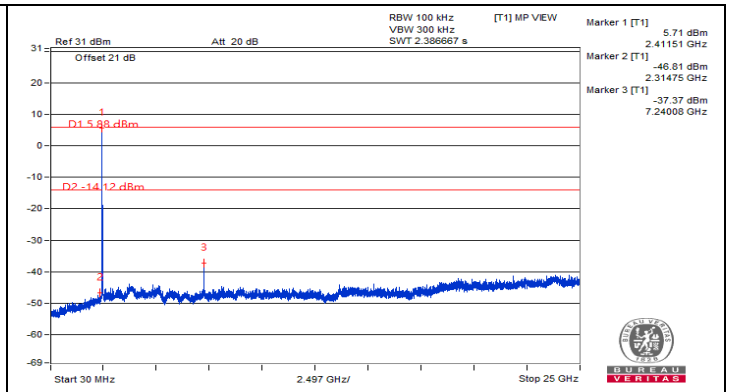


Chain 1 : CH 11 Band edge

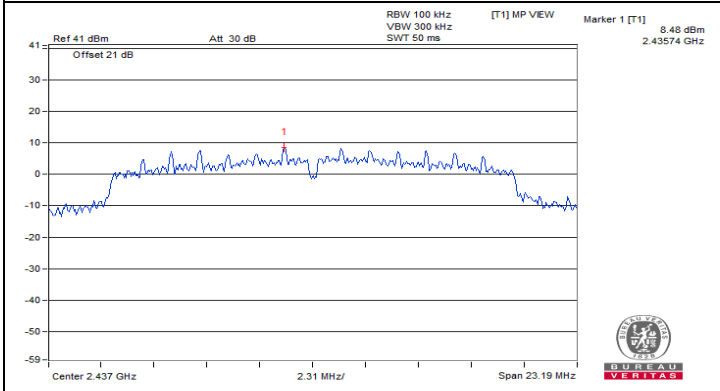
VHT20



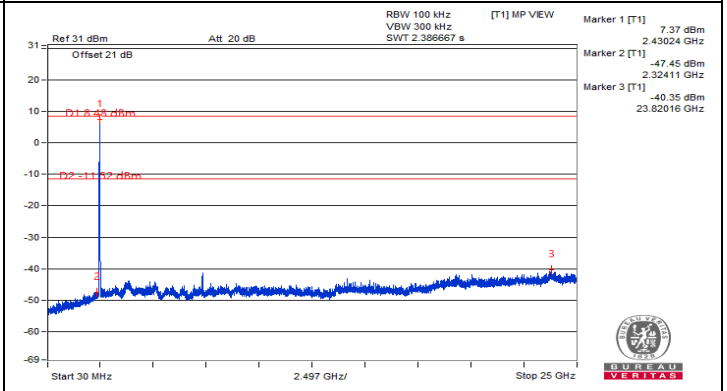
Chain 0 : CH 1



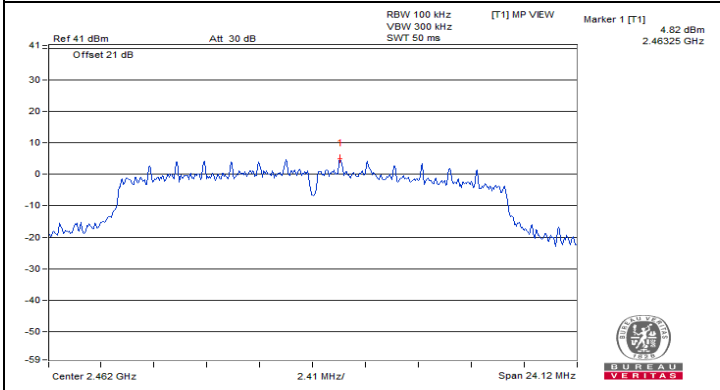
Chain 0 : CH 1



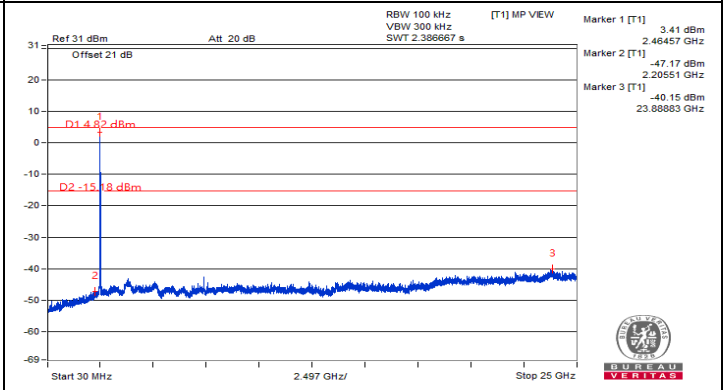
Chain 0 : CH 6



Chain 0 : CH 6



Chain 0 : CH 11



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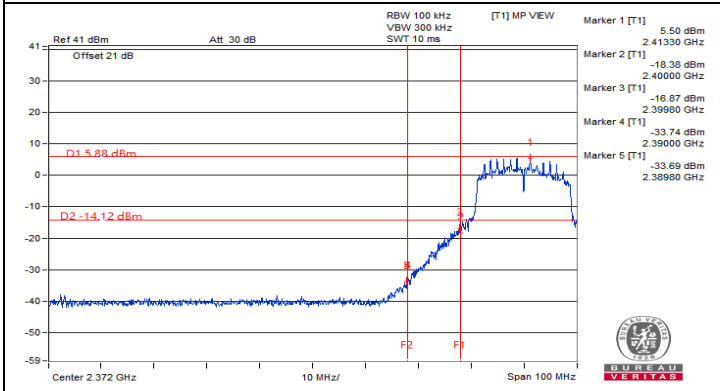
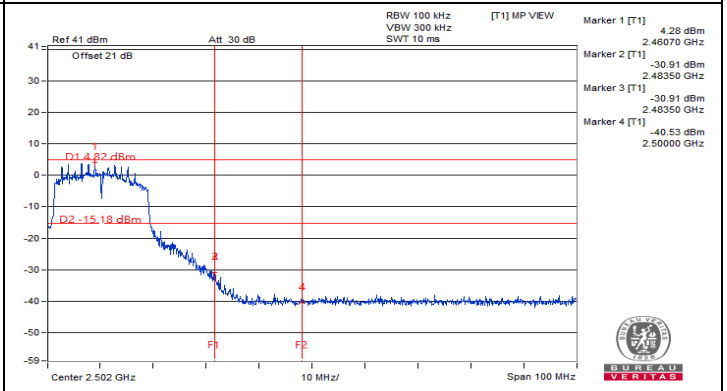
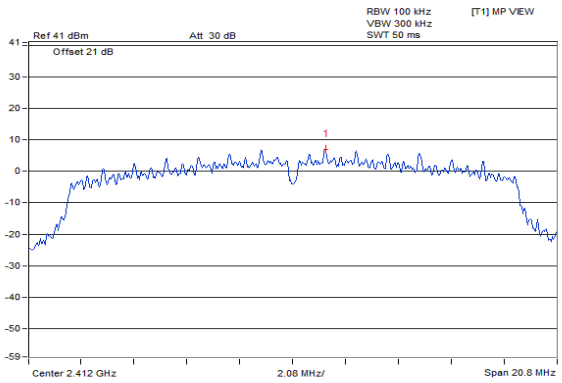


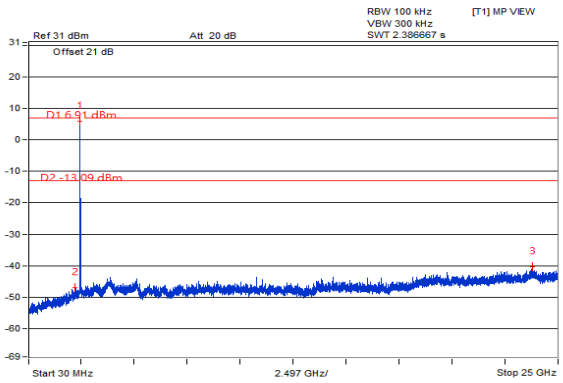
Chain 0 : CH 1 Band edge



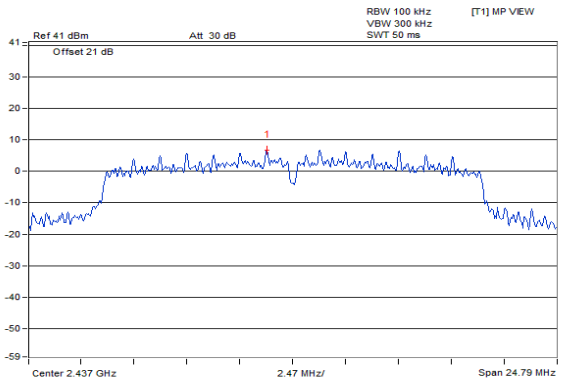
Chain 0 : CH 11 Band edge



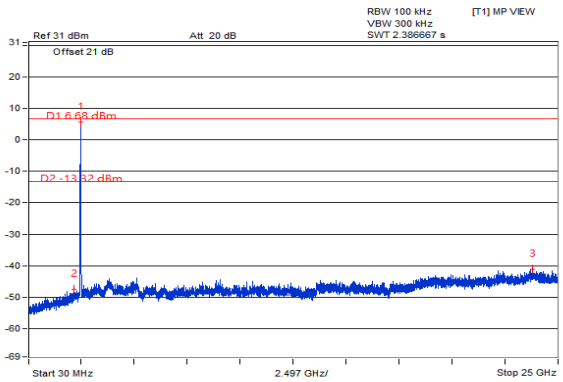
Chain 1 : CH 1



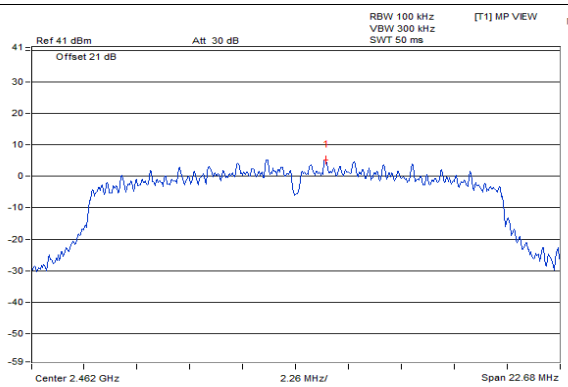
Chain 1 : CH 1



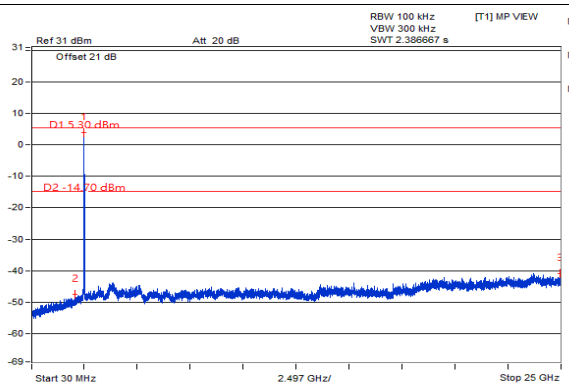
Chain 1 : CH 6



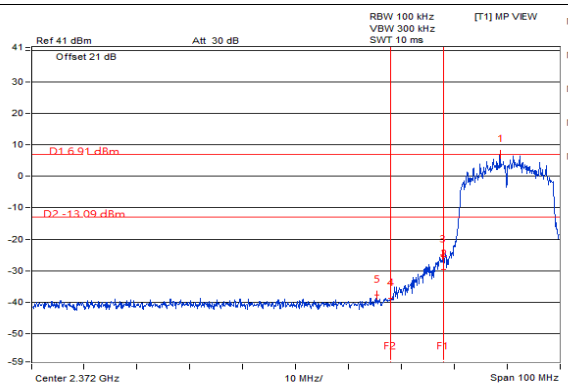
Chain 1 : CH 6



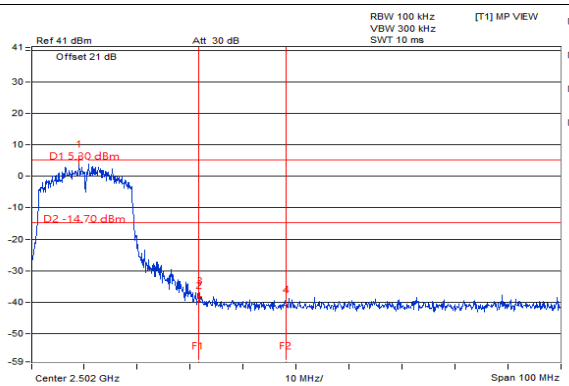
Chain 1 : CH 11



Chain 1 : CH 11

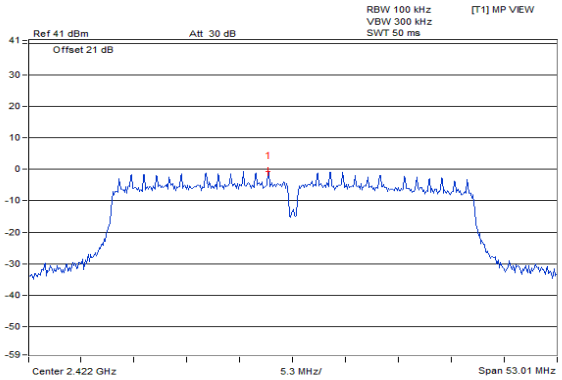


Chain 1 : CH 1 Band edge

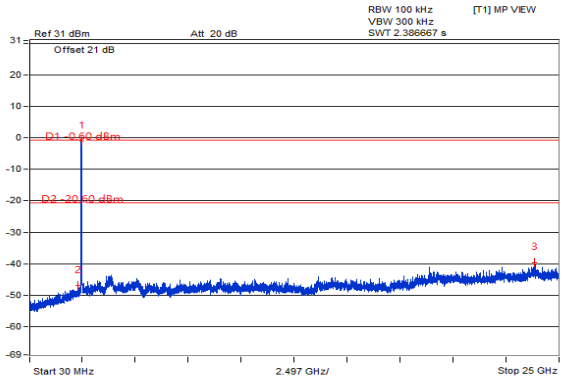


Chain 1 : CH 11 Band edge

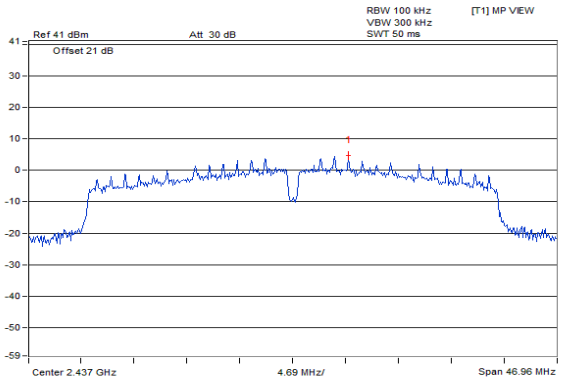
VHT40



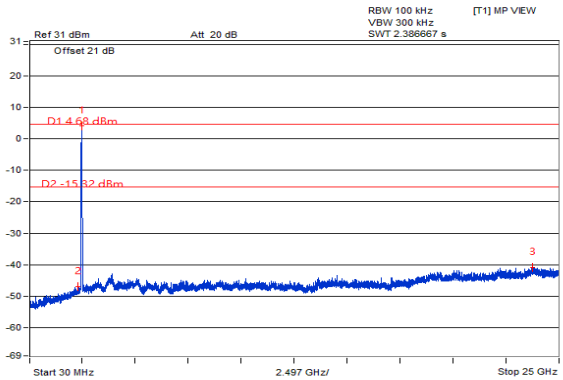
Chain 0 : CH 3



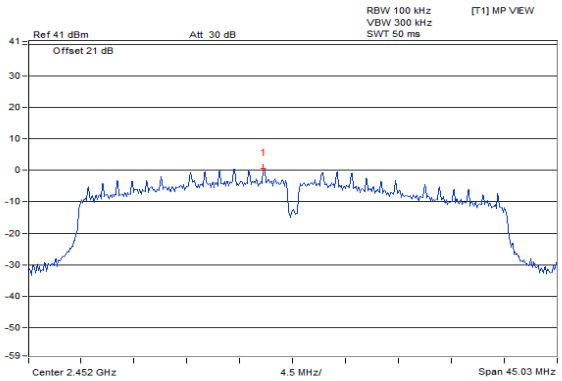
Chain 0 : CH 3



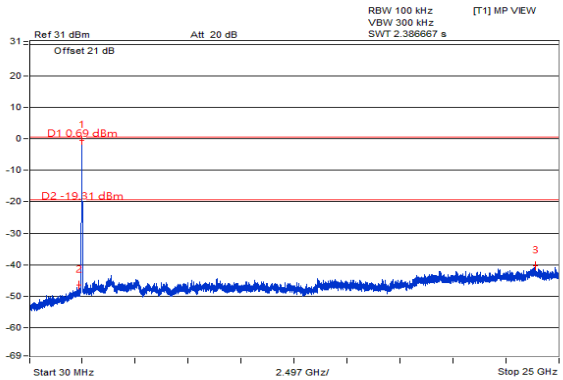
Chain 0 : CH 6



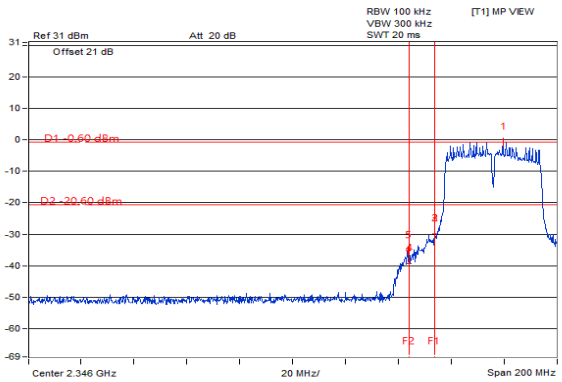
Chain 0 : CH 6



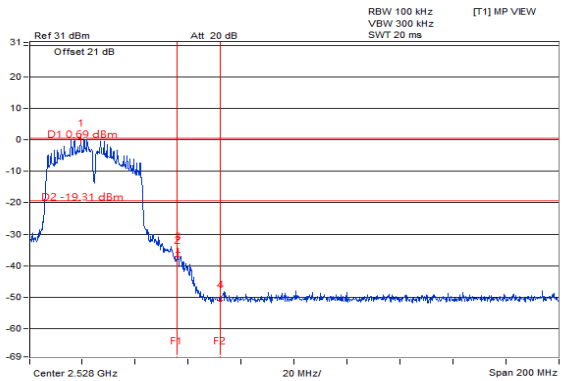
Chain 0 : CH 9



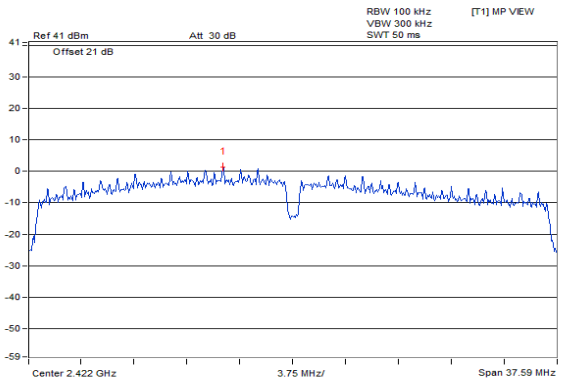
Chain 0 : CH 9



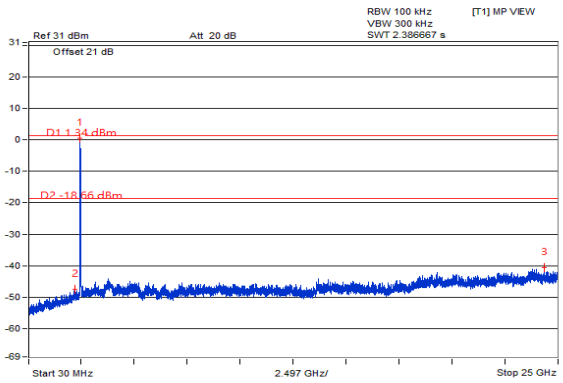
Chain 0 : CH 3 Band edge



Chain 0 : CH 9 Band edge



Chain 1 : CH 3



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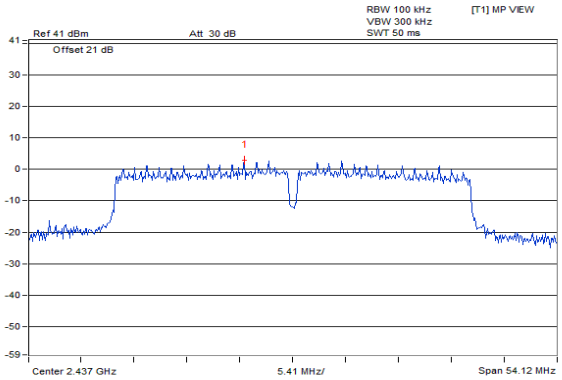
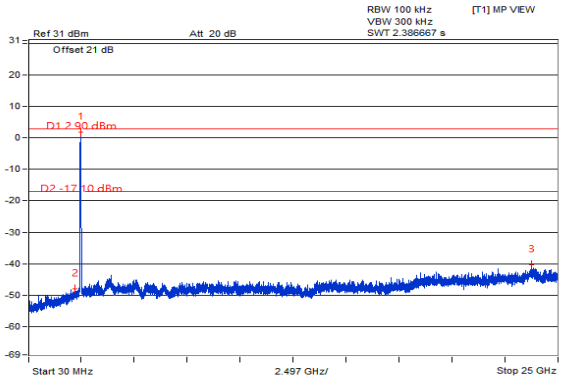
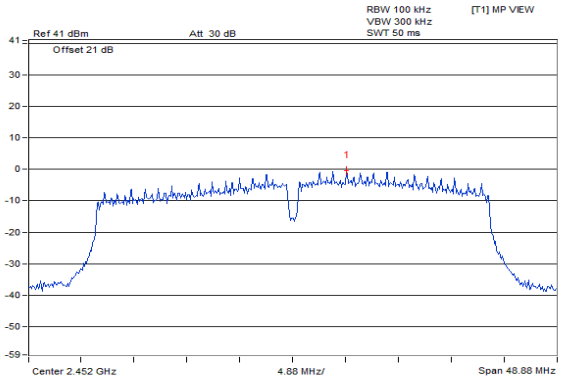


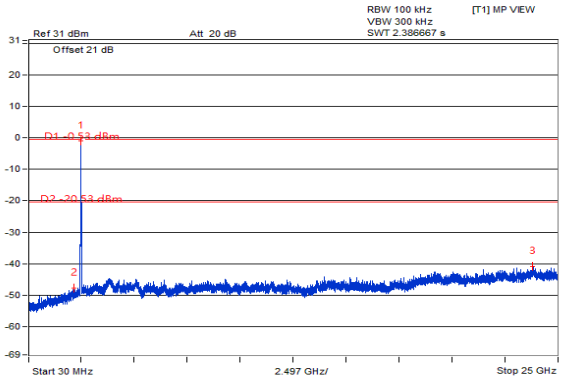
Chain 1 : CH 6



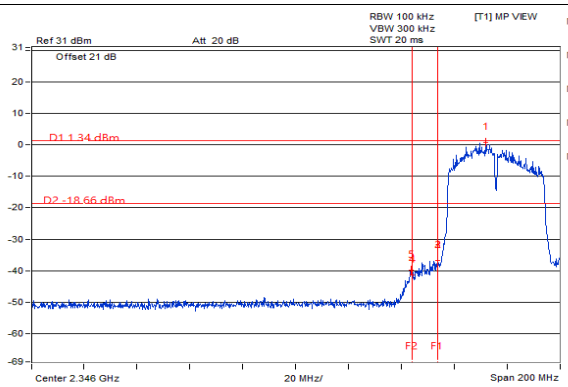
Chain 1 : CH 6



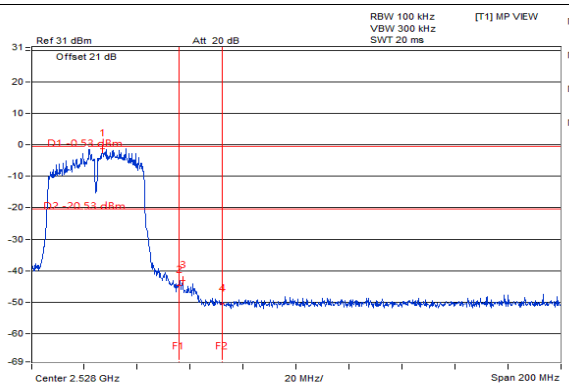
Chain 1 : CH 9



Chain 1 : CH 9



Chain 1 : CH 3 Band edge

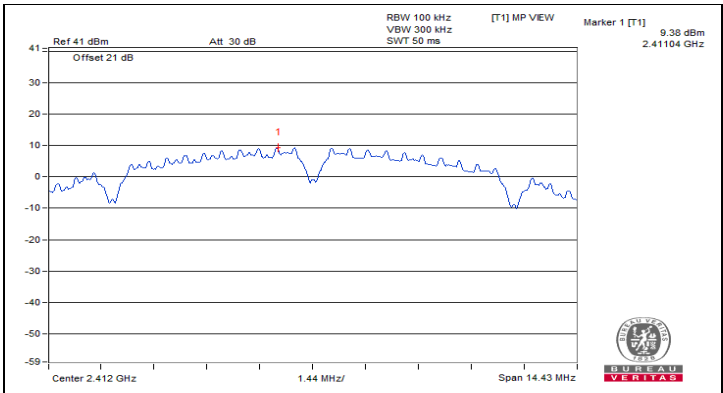


Chain 1 : CH 9 Band edge

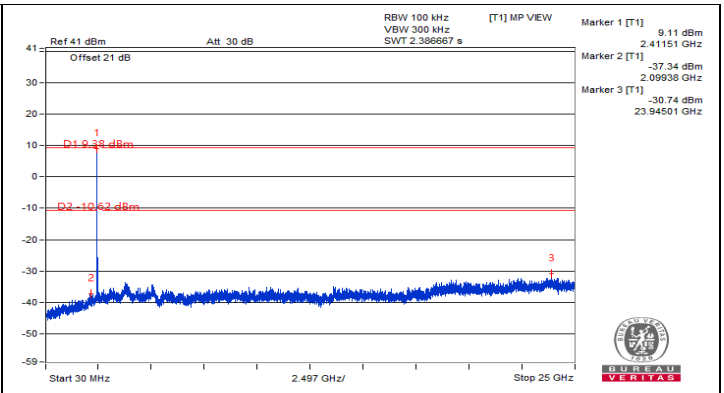
Mode B

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu

802.11b



Chain 0 : CH 1



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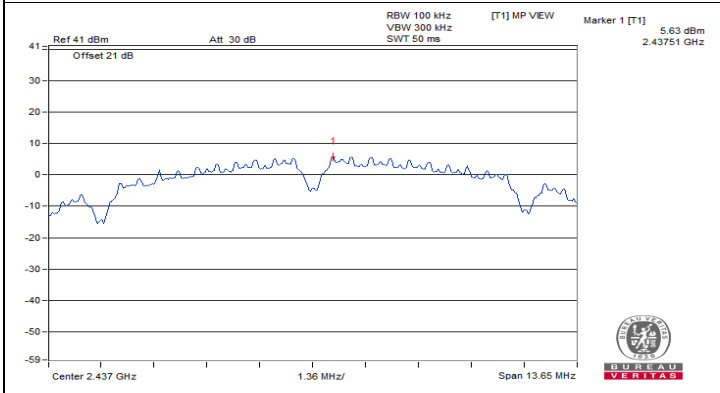
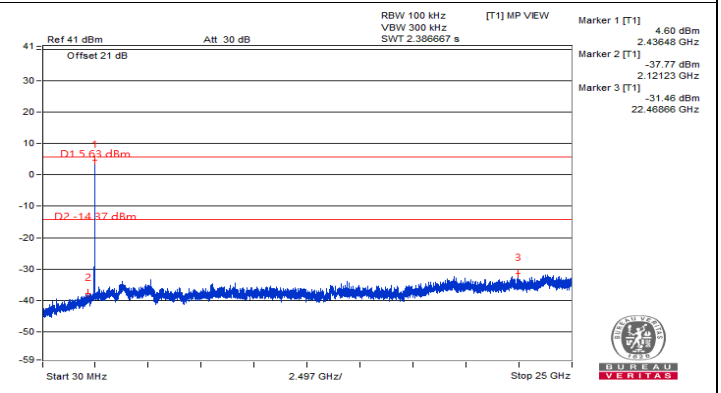


Chain 0 : CH 6



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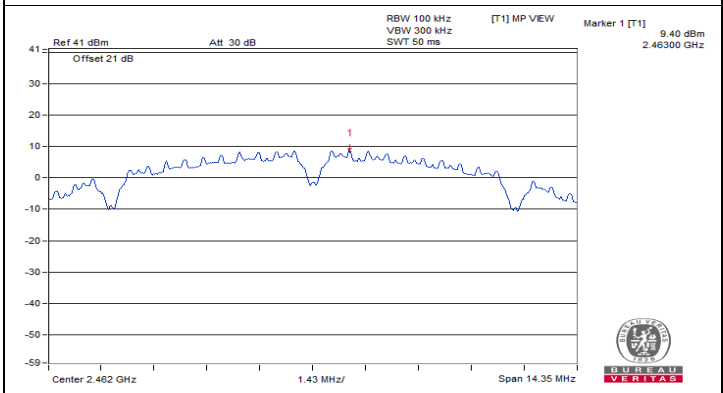
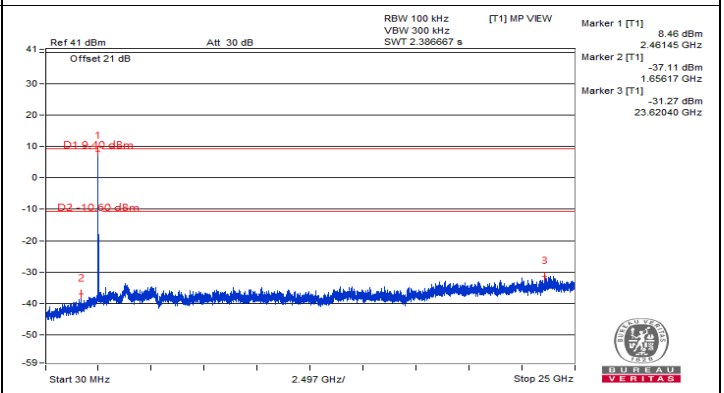
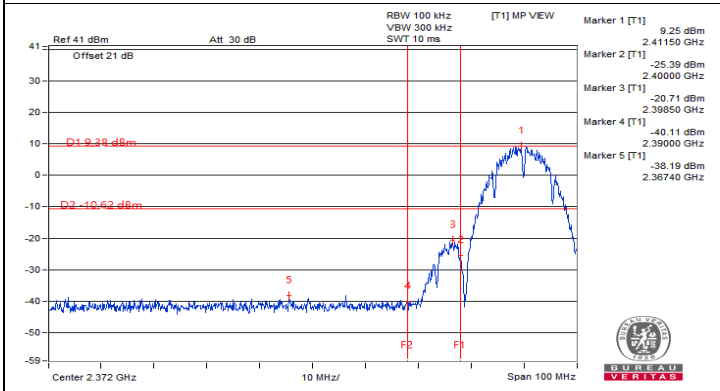


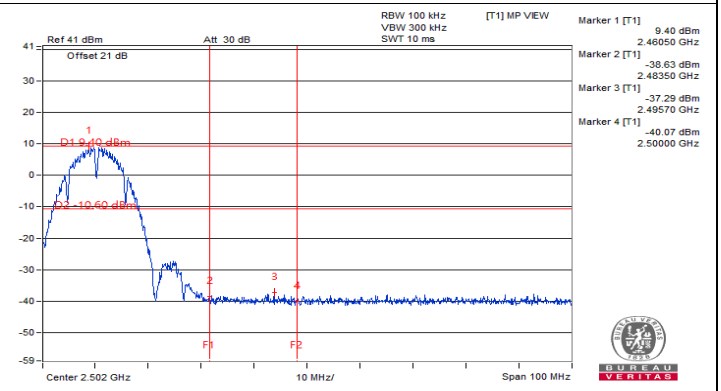
Chain 0 : CH 11



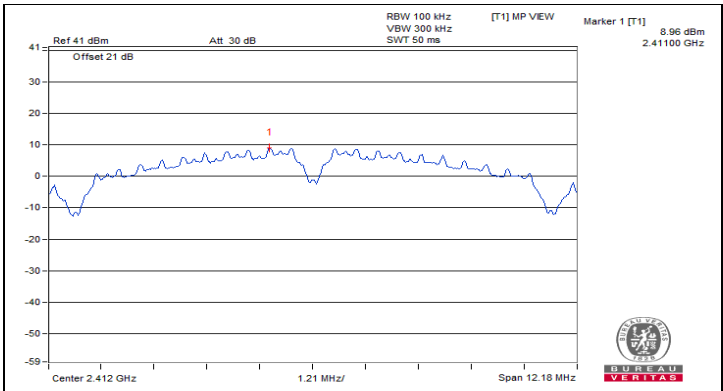
Chain 0 : CH 11



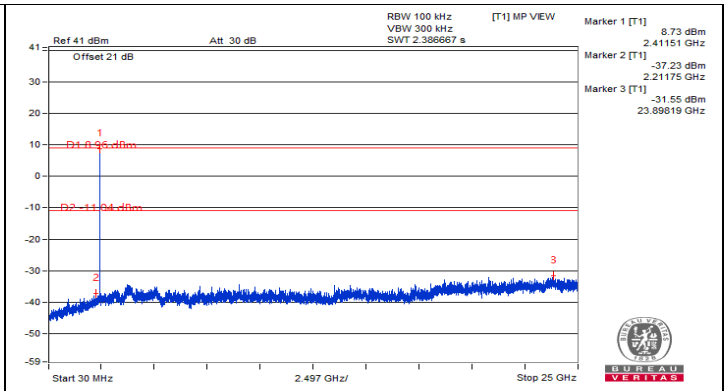
Chain 0 : CH 1 Band edge



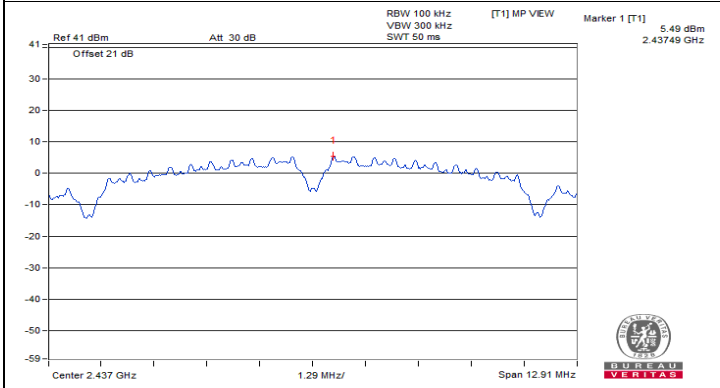
Chain 0 : CH 11 Band edge



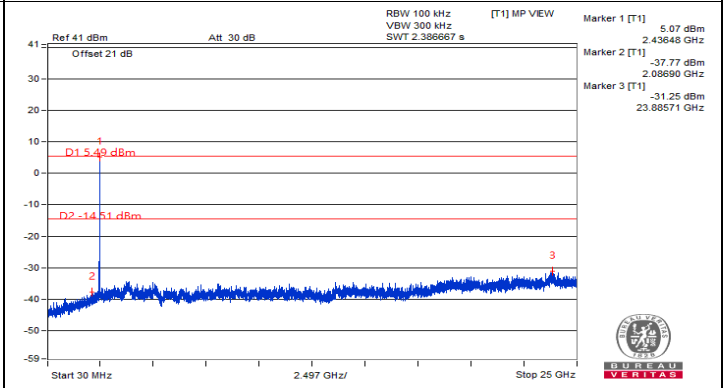
Chain 1 : CH 1



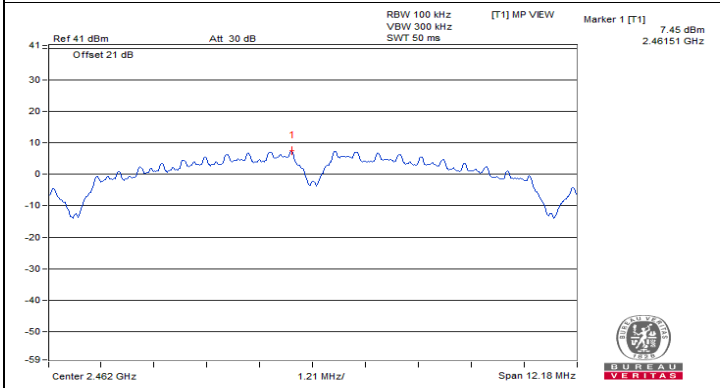
Chain 1 : CH 1



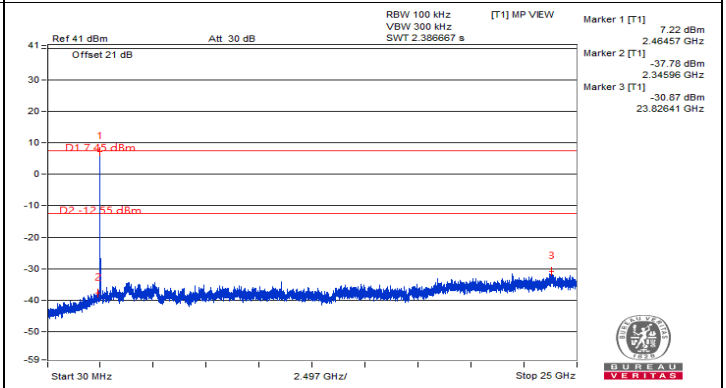
Chain 1 : CH 6



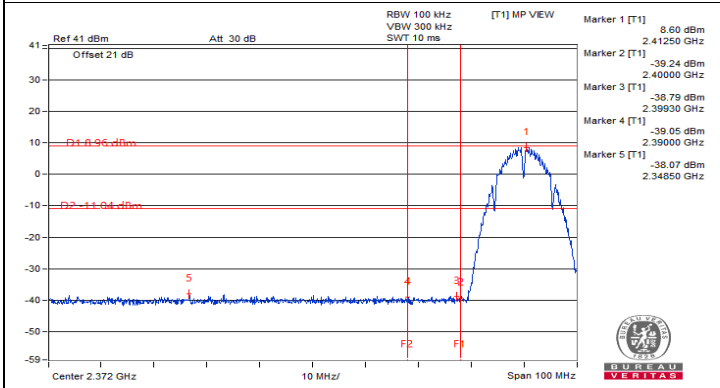
Chain 1 : CH 6



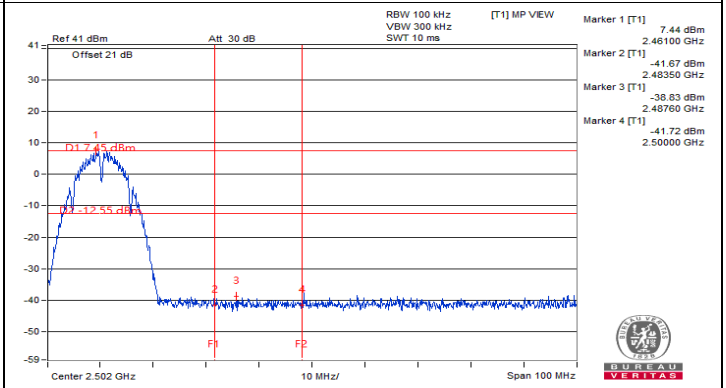
Chain 1 : CH 11



Chain 1 : CH 11

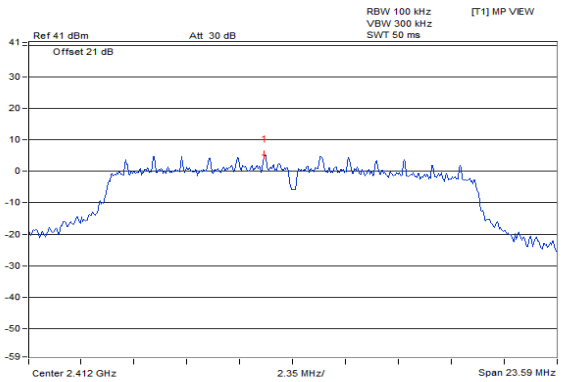


Chain 1 : CH 1 Band edge

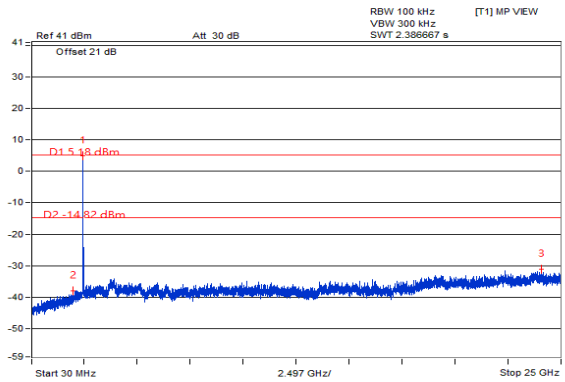


Chain 1 : CH 11 Band edge

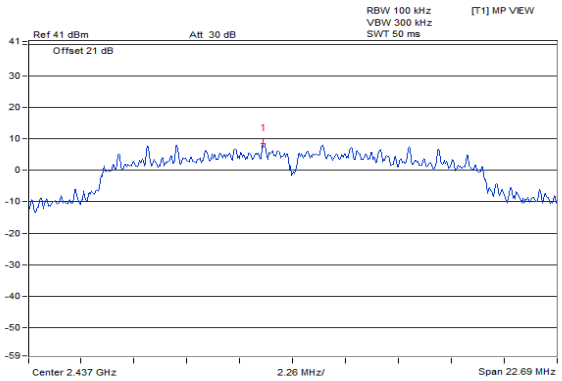
802.11g



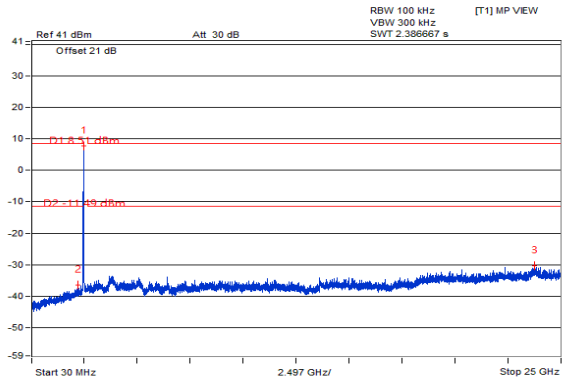
Chain 0 : CH 1



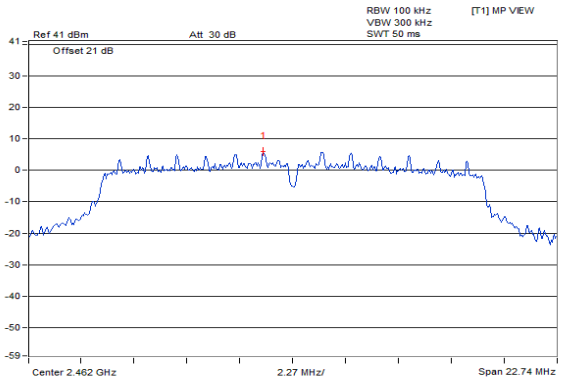
Chain 0 : CH 1



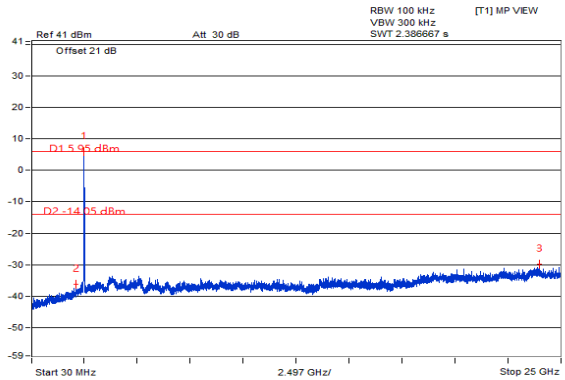
Chain 0 : CH 6



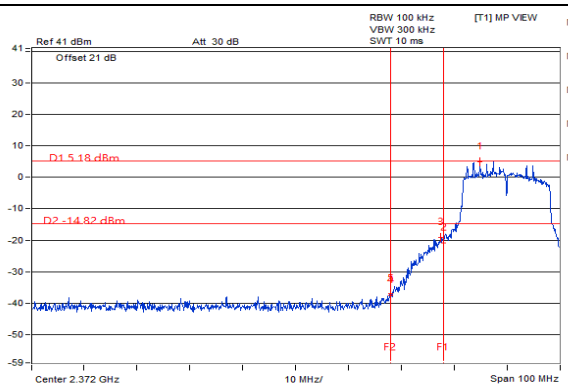
Chain 0 : CH 6



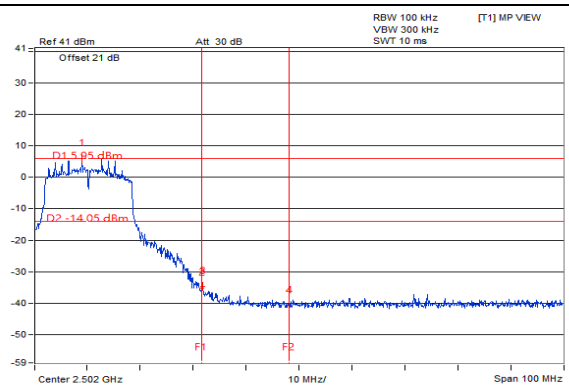
Chain 0 : CH 11



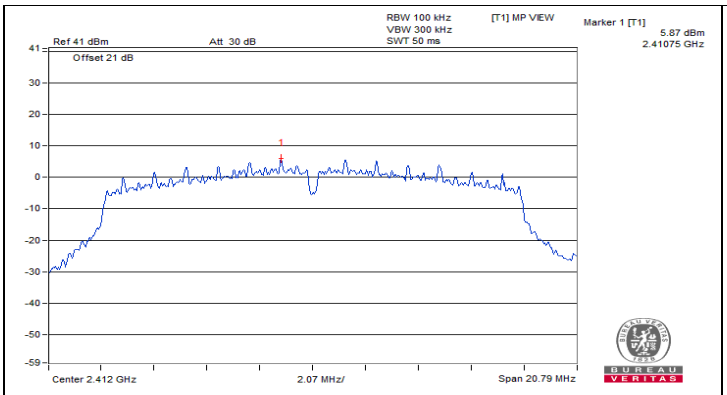
Chain 0 : CH 11



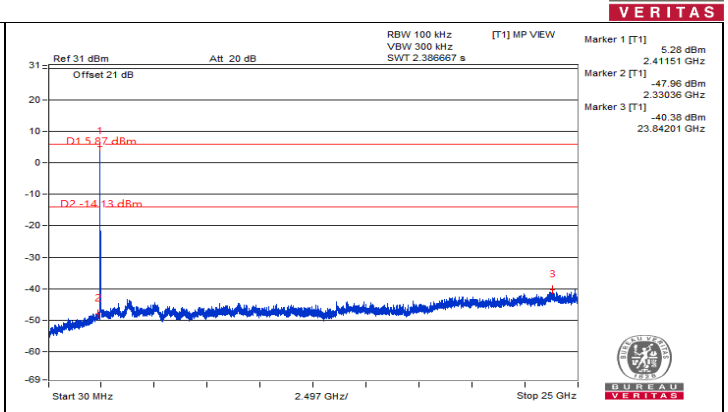
Chain 0 : CH 1 Band edge



Chain 0 : CH 11 Band edge



Chain 1 : CH 1



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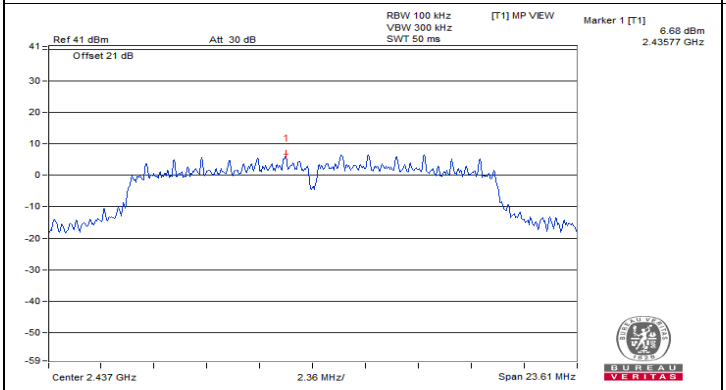

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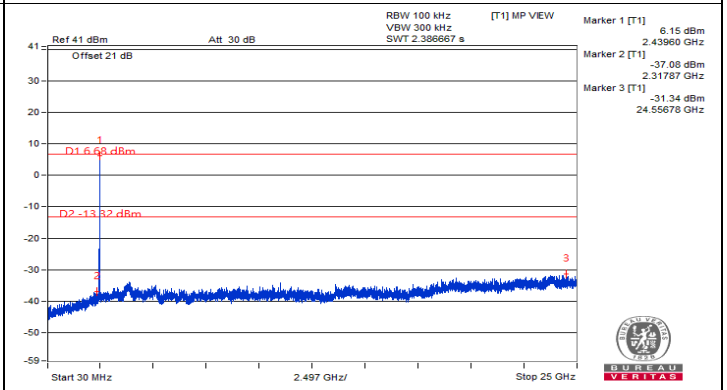

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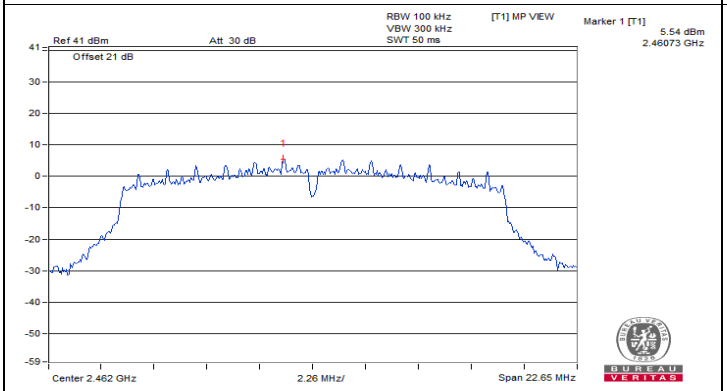
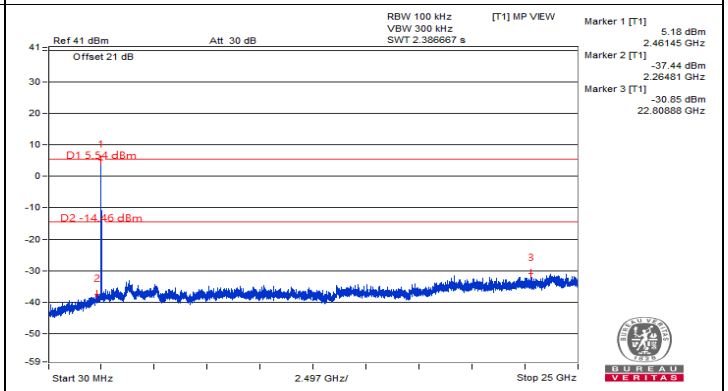
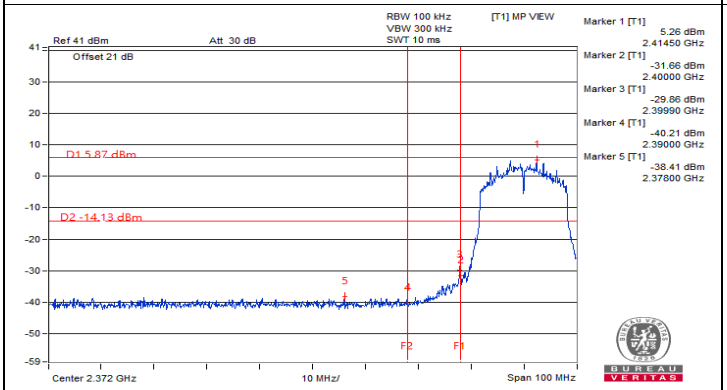


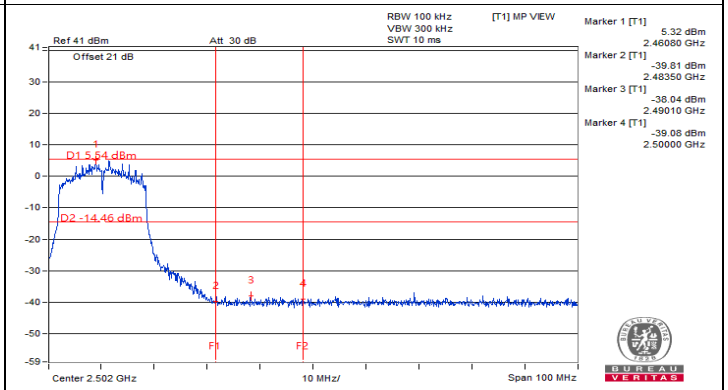
Chain 1 : CH 11



Chain 1 : CH 11

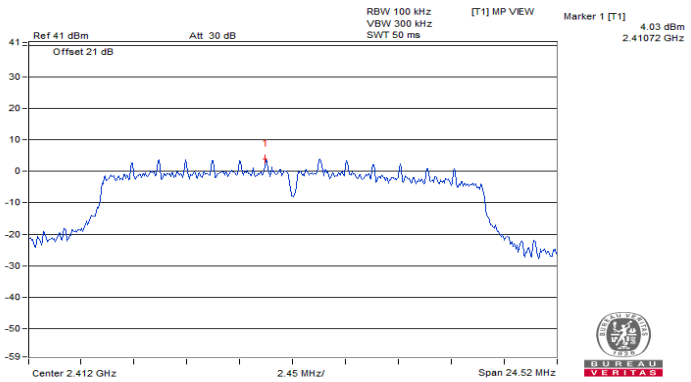


Chain 1 : CH 1 Band edge

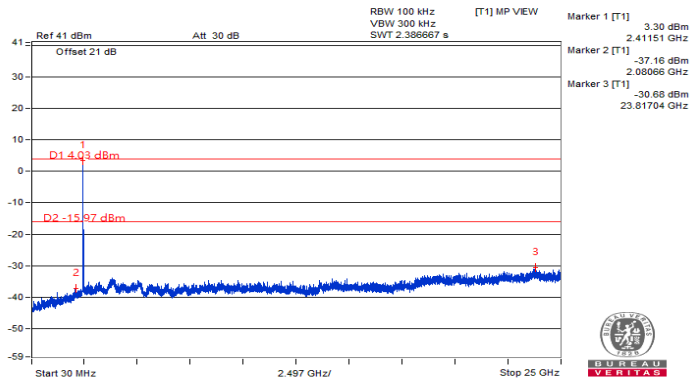


Chain 1 : CH 11 Band edge

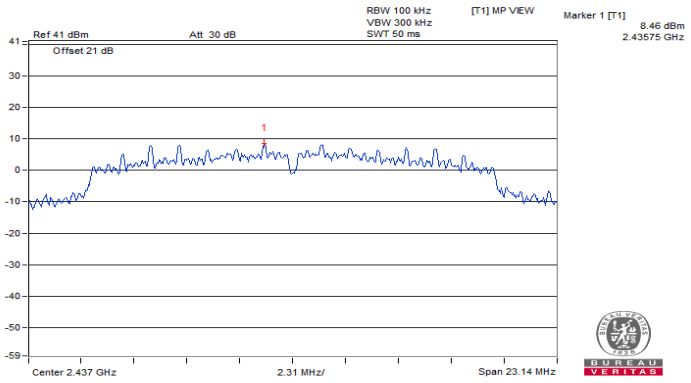
VHT20



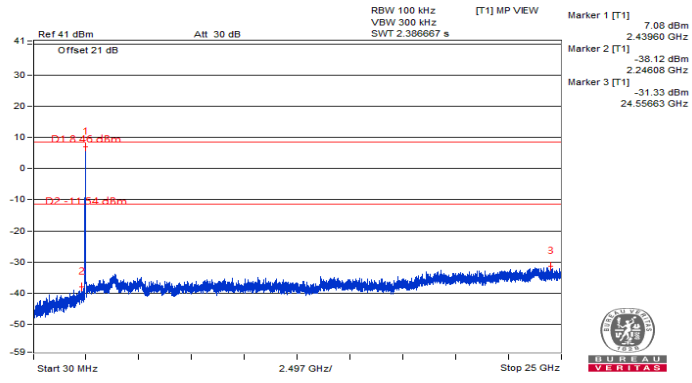
Chain 0 : CH 1



Chain 0 : CH 1



Chain 0 : CH 6



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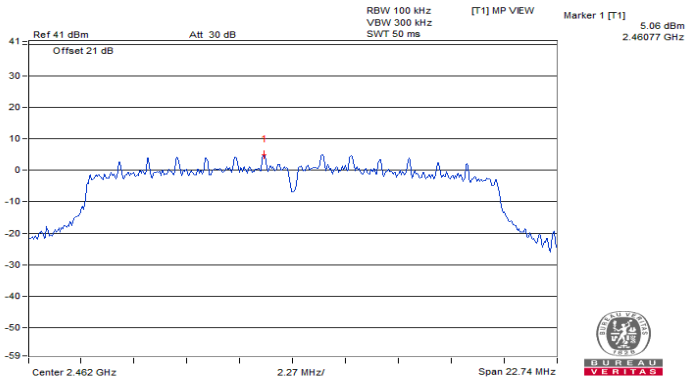

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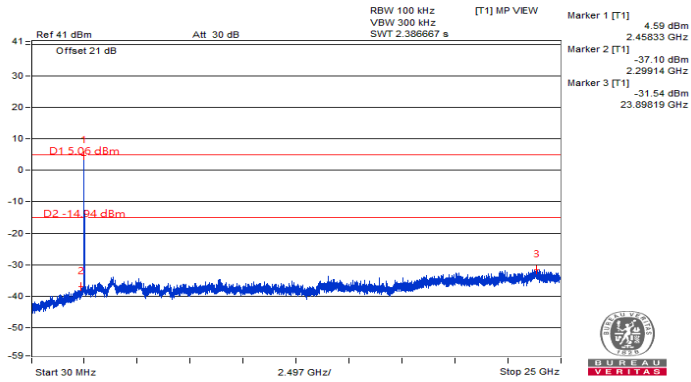
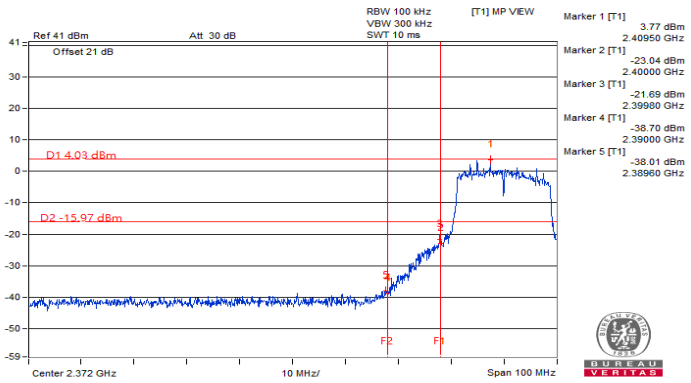
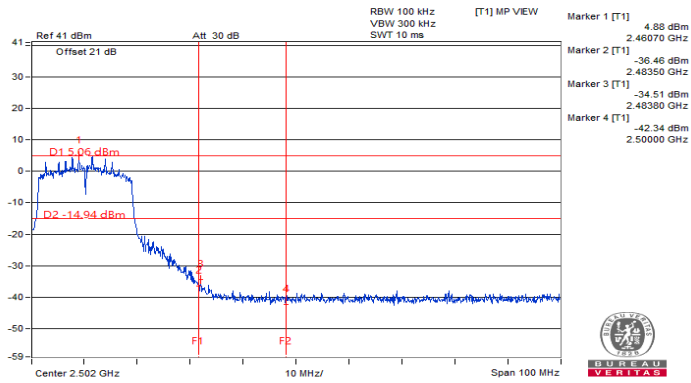


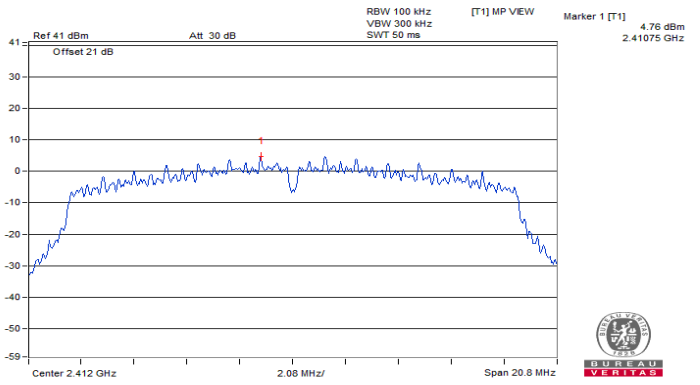
Chain 0 : CH 11



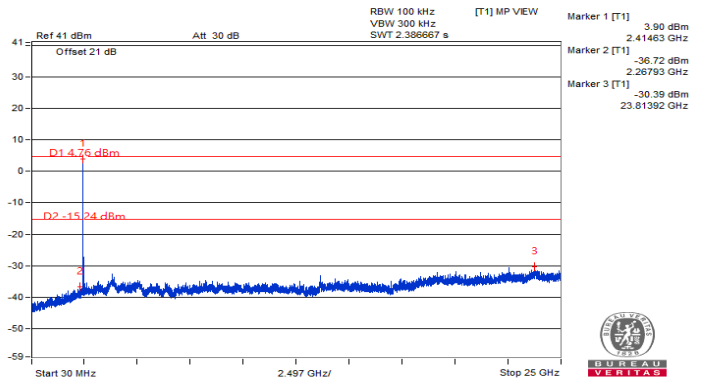
Chain 0 : CH 1 Band edge



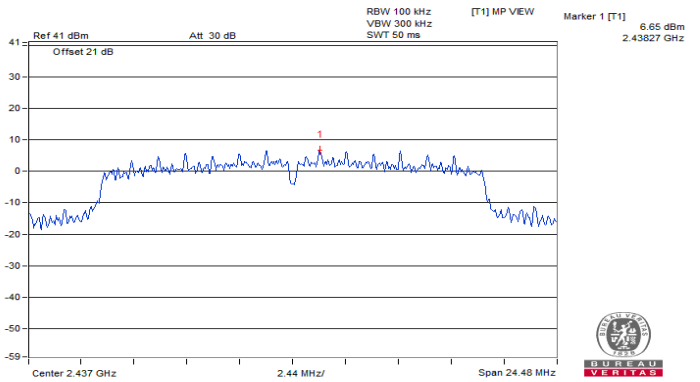
Chain 0 : CH 11 Band edge



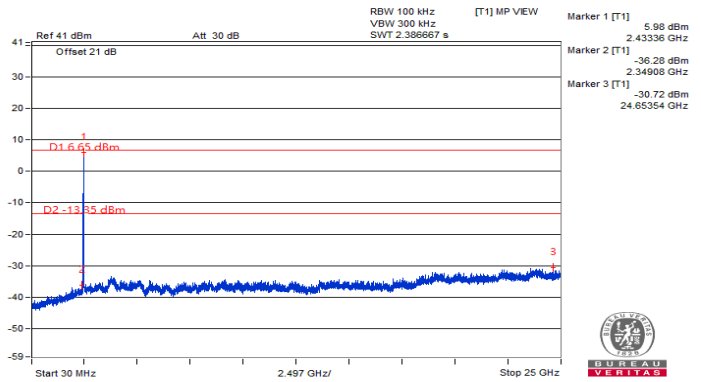
Chain 1 : CH 1



Chain 1 : CH 1



Chain 1 : CH 6



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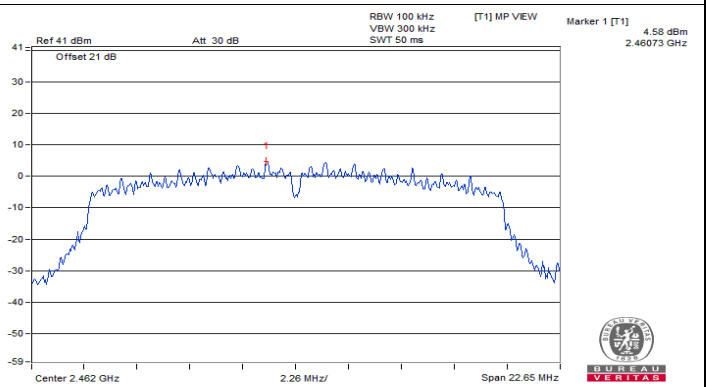
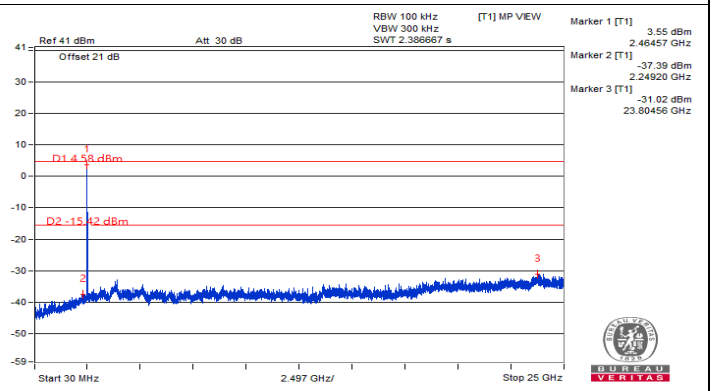
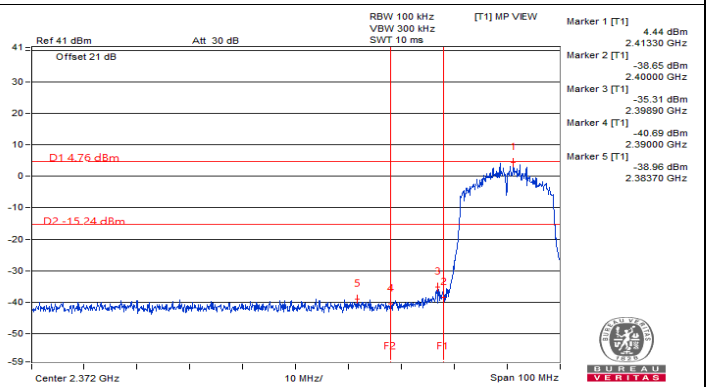


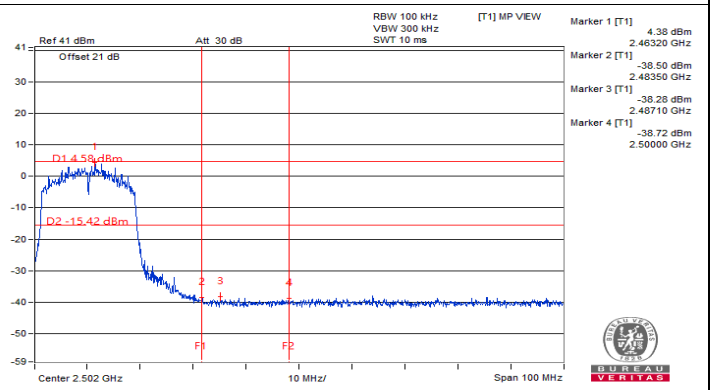
Chain 1 : CH 11



Chain 1 : CH 11

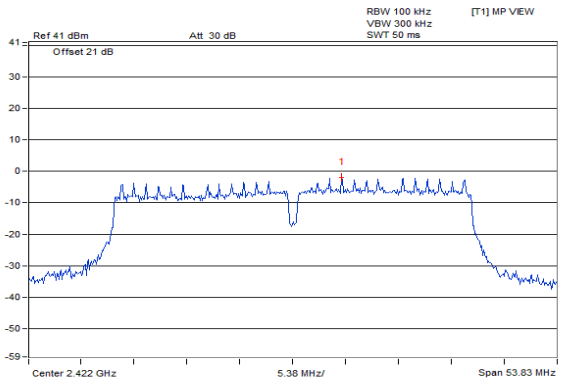


Chain 1 : CH 1 Band edge

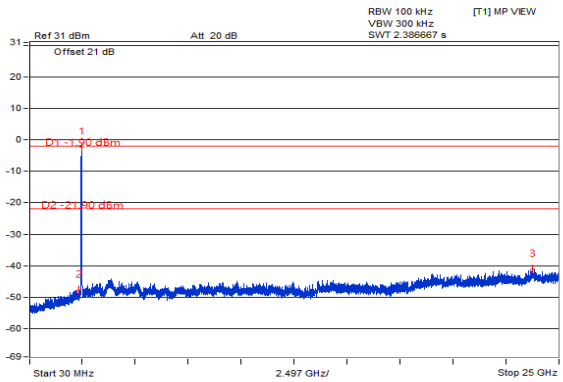


Chain 1 : CH 11 Band edge

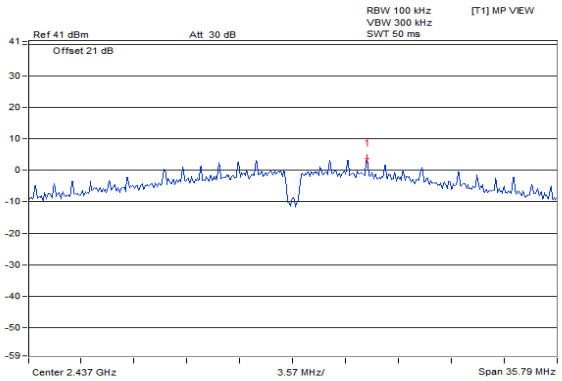
VHT40



Chain 0 : CH 3



Chain 0 : CH 3



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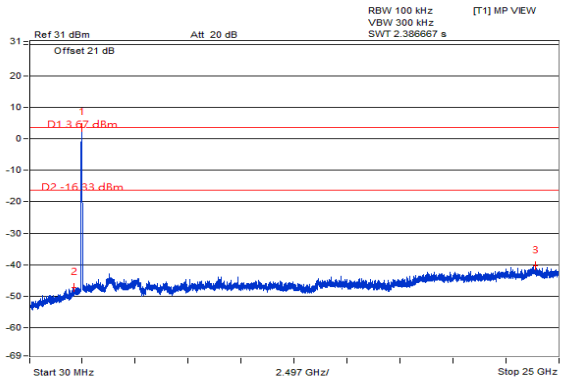
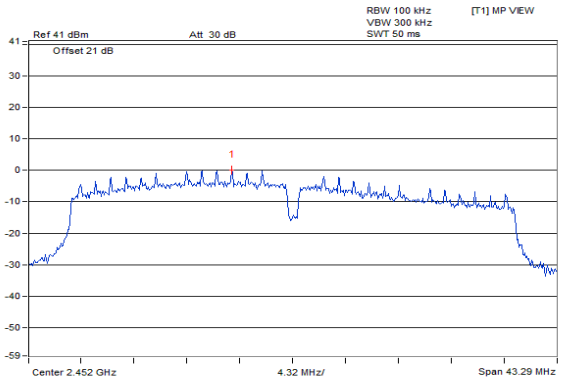
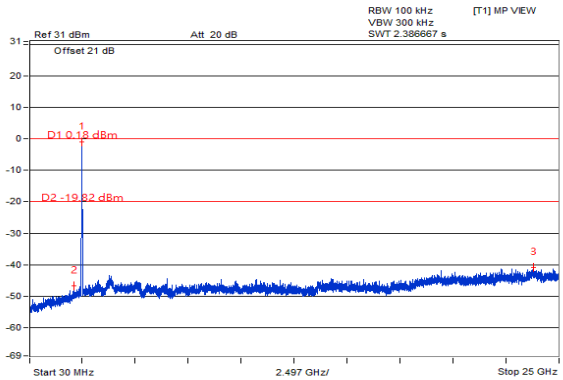


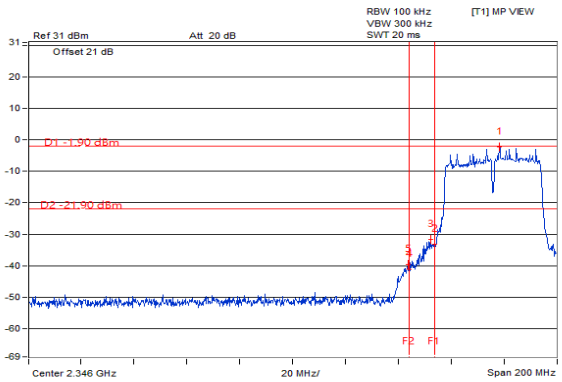
Chain 0 : CH 6



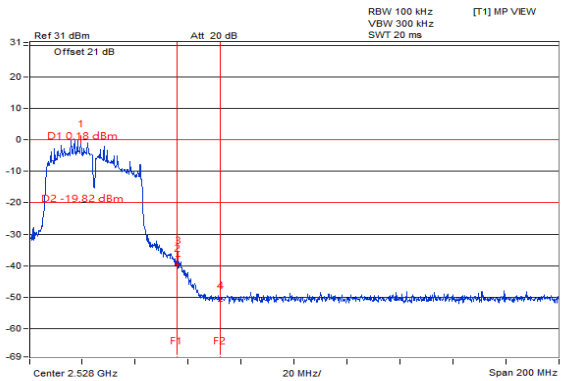
Chain 0 : CH 9



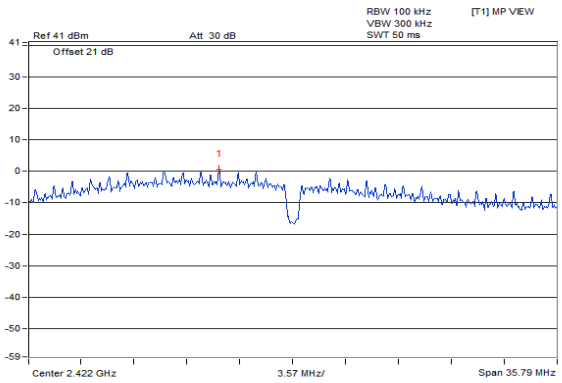
Chain 0 : CH 9



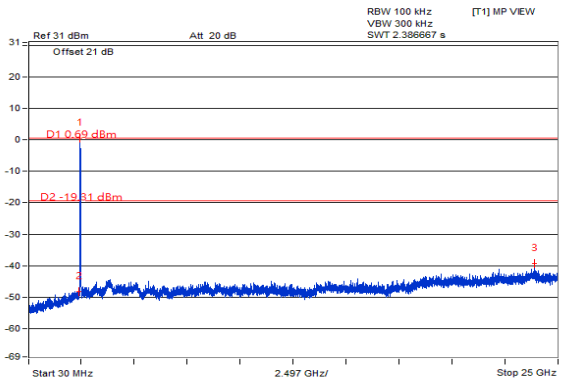
Chain 0 : CH 3 Band edge



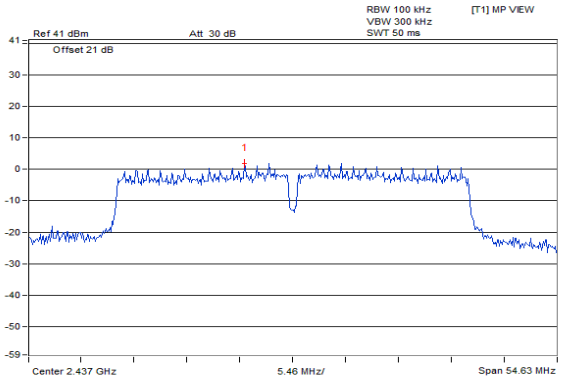
Chain 0 : CH 9 Band edge



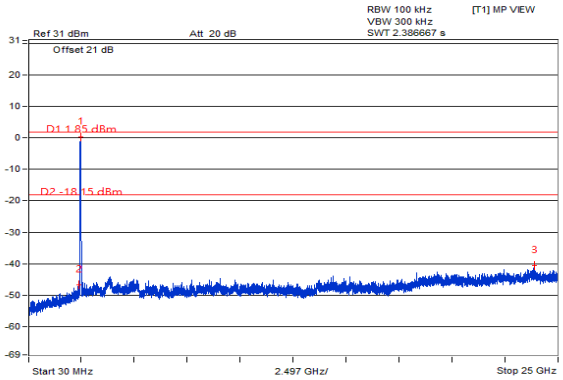
Chain 1 : CH 3



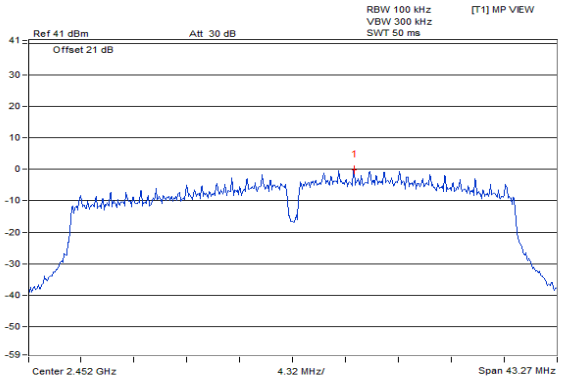
Chain 1 : CH 3



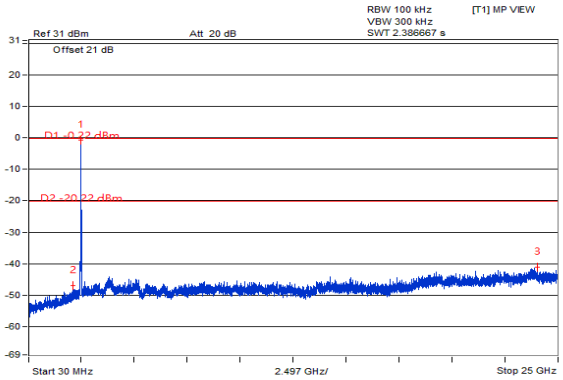
Chain 1 : CH 6



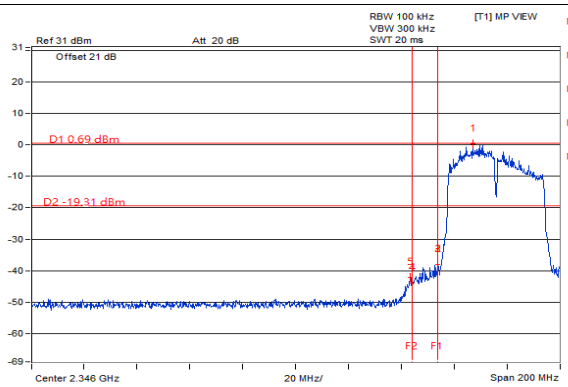
Chain 1 : CH 6



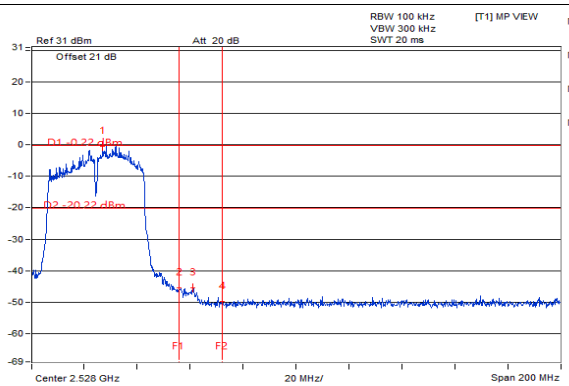
Chain 1 : CH 9



Chain 1 : CH 9



Chain 1 : CH 3 Band edge



Chain 1 : CH 9 Band edge

7.5 AC Power Conducted Emissions

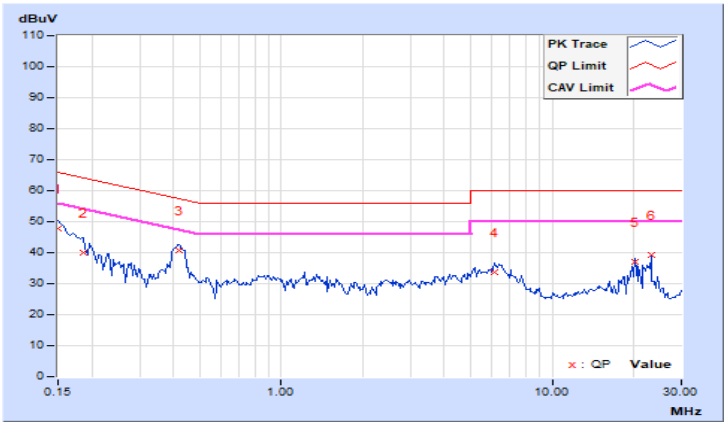
Mode A

RF Mode	802.11g	**Channel**	CH 1：2412 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 66% RH
Tested By	Sampson Chen		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15000	9.95	37.79	22.22	47.74	32.17	66.00	56.00	-18.26	-23.83
2	0.18516	9.96	30.14	14.48	40.10	24.44	64.25	54.25	-24.15	-29.81
3	0.41953	9.96	30.62	23.67	40.58	33.63	57.46	47.46	-16.88	-13.83
4	6.14453	10.35	23.19	15.88	33.54	26.23	60.00	50.00	-26.46	-23.77
5	20.25781	11.20	25.92	22.50	37.12	33.70	60.00	50.00	-22.88	-16.30
6	23.12891	11.25	28.06	25.46	39.31	36.71	60.00	50.00	-20.69	-13.29

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

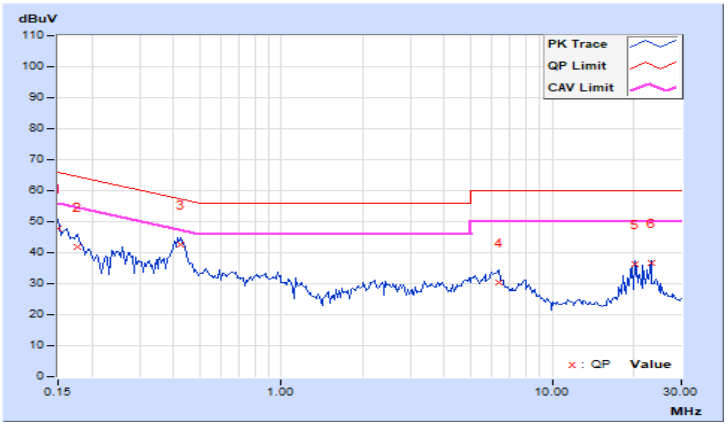


RF Mode	802.11g	**Channel**	CH 1：2412 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 66% RH
Tested By	Sampson Chen		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15000	9.95	37.75	23.47	47.70	33.42	66.00	56.00	-18.30	-22.58
2	0.17734	9.96	31.88	16.94	41.84	26.90	64.61	54.61	-22.77	-27.71
3	**0.42734**	**9.96**	**32.66**	**25.87**	**42.62**	**35.83**	**57.30**	**47.30**	**-14.68**	**-11.47**
4	6.36719	10.32	20.20	12.66	30.52	22.98	60.00	50.00	-29.48	-27.02
5	20.25781	10.98	25.34	21.97	36.32	32.95	60.00	50.00	-23.68	-17.05
6	23.12891	11.00	25.75	23.15	36.75	34.15	60.00	50.00	-23.25	-15.85

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



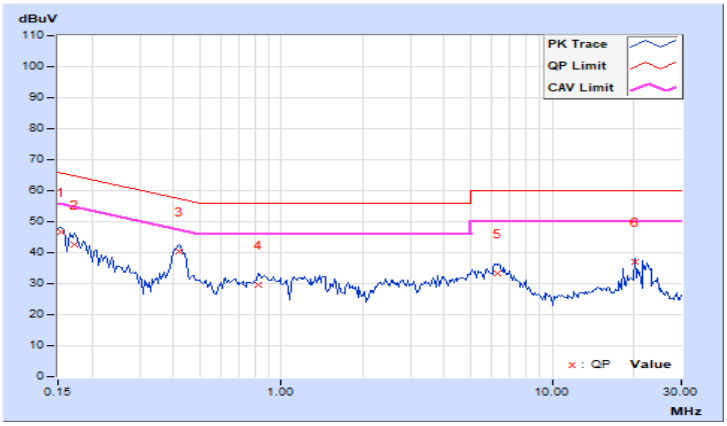
Mode B

RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Sampson Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.95	36.74	20.43	46.69	30.38	65.79	55.79	-19.10	-25.41
2	0.17344	9.95	32.51	16.76	42.46	26.71	64.79	54.79	-22.33	-28.08
3	0.41953	9.96	30.48	23.85	40.44	33.81	57.46	47.46	-17.02	-13.65
4	0.82578	9.99	19.60	12.13	29.59	22.12	56.00	46.00	-26.41	-23.88
5	6.29688	10.36	22.93	16.05	33.29	26.41	60.00	50.00	-26.71	-23.59
6	20.25781	11.20	25.77	22.36	36.97	33.56	60.00	50.00	-23.03	-16.44

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

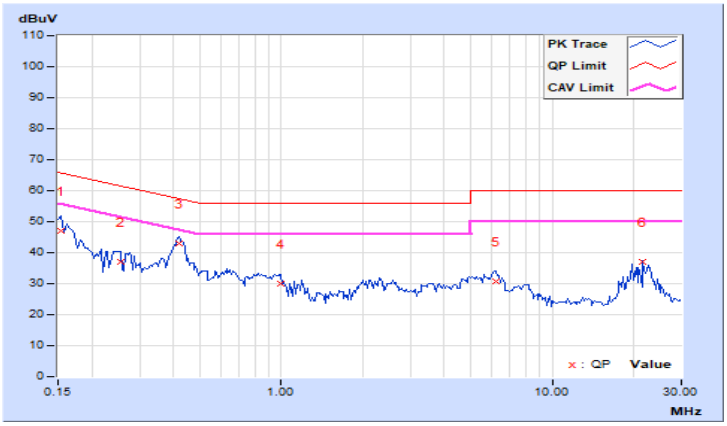


RF Mode	802.11b	**Channel**	CH 1：2412 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 66% RH
Tested By	Sampson Chen		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15391	9.95	37.23	22.32	47.18	32.27	65.79	55.79	-18.61	-23.52
2	0.25547	9.96	27.10	16.86	37.06	26.82	61.58	51.58	-24.52	-24.76
3	0.41953	9.96	33.12	25.94	43.08	35.90	57.46	47.46	-14.38	-11.56
4	0.99766	10.00	20.17	12.94	30.17	22.94	56.00	46.00	-25.83	-23.06
5	6.16797	10.31	20.30	13.69	30.61	24.00	60.00	50.00	-29.39	-26.00
6	21.66406	10.99	25.90	22.73	36.89	33.72	60.00	50.00	-23.11	-16.28

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.6 Unwanted Emissions below 1 GHz

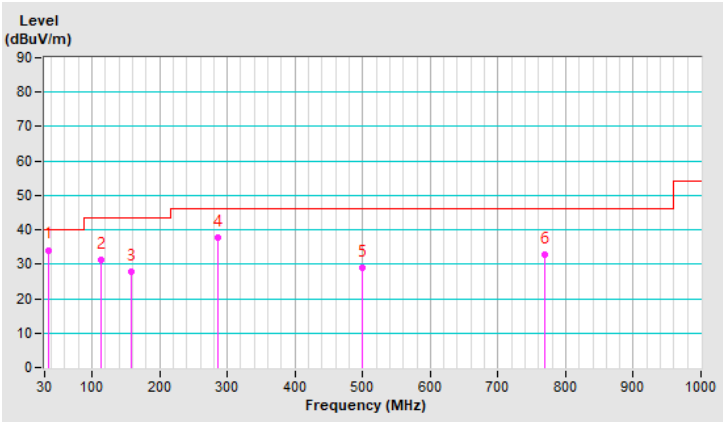
Mode A

RF Mode	802.11g	**Channel**	CH 1：2412 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	24°C, 71% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	36.45	34.1 QP	40.0	-5.9	1.00 H	139	42.9	-8.8
2	114.29	31.4 QP	43.5	-12.1	3.00 H	84	41.9	-10.5
3	157.94	27.7 QP	43.5	-15.8	1.50 H	37	35.9	-8.2
4	286.78	37.8 QP	46.0	-8.2	1.00 H	139	45.8	-8.0
5	499.67	29.1 QP	46.0	-16.9	1.00 H	339	31.9	-2.8
6	768.29	32.9 QP	46.0	-13.1	2.00 H	327	30.6	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

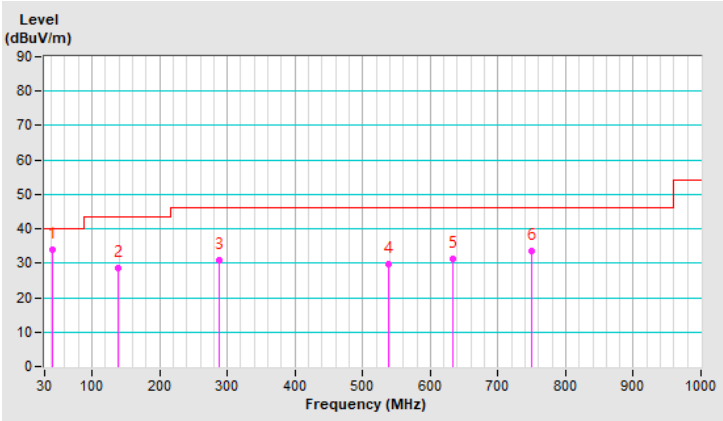


RF Mode	802.11g	**Channel**	CH 1：2412 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	24°C, 71% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	42.39	33.8 QP	40.0	-6.2	1.00 V	254	42.0	-8.2
2	138.30	28.6 QP	43.5	-14.9	1.00 V	42	37.1	-8.5
3	288.43	30.9 QP	46.0	-15.1	1.50 V	233	38.8	-7.9
4	538.86	29.6 QP	46.0	-16.4	1.00 V	299	31.8	-2.2
5	633.24	31.2 QP	46.0	-14.8	1.50 V	181	31.1	0.1
6	748.77	33.5 QP	46.0	-12.5	3.00 V	1	31.4	2.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



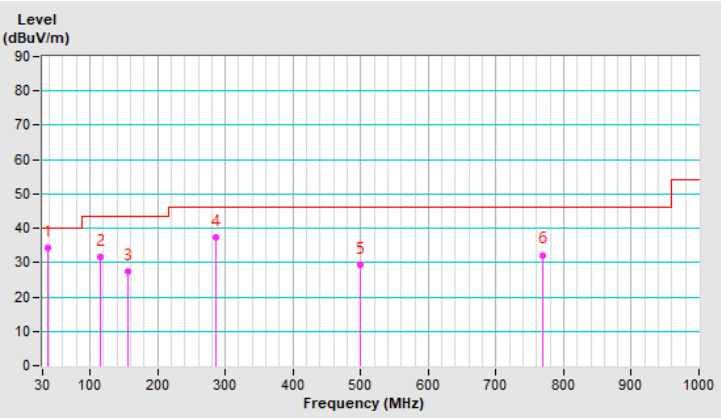
Mode B

RF Mode	802.11b	**Channel**	CH 1：2412 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	24°C, 71% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**37.00**	**34.3 QP**	**40.0**	**-5.7**	**1.00 H**	**167**	**43.0**	**-8.7**
2	115.23	31.8 QP	43.5	-11.7	3.00 H	101	42.3	-10.5
3	157.06	27.5 QP	43.5	-16.0	1.50 H	46	35.7	-8.2
4	286.06	37.2 QP	46.0	-8.8	1.00 H	145	45.2	-8.0
5	500.08	29.3 QP	46.0	-16.7	1.00 H	341	32.1	-2.8
6	769.31	32.2 QP	46.0	-13.8	2.00 H	300	29.9	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

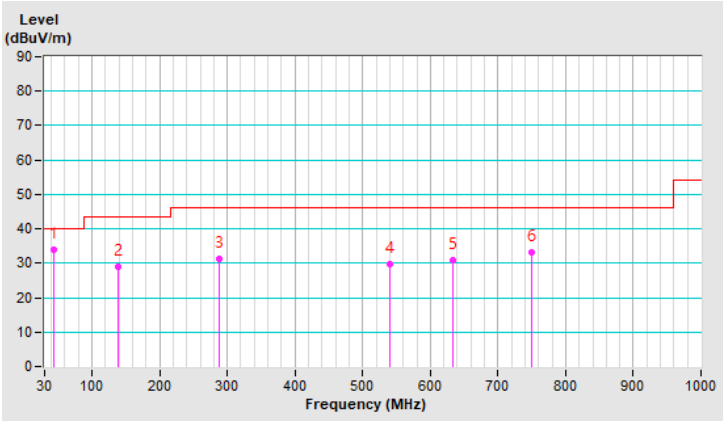


RF Mode	802.11b	**Channel**	CH 1：2412 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	24°C, 71% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	43.05	34.0 QP	40.0	-6.0	1.00 V	267	42.3	-8.3
2	139.03	29.0 QP	43.5	-14.5	1.00 V	55	37.5	-8.5
3	288.00	31.2 QP	46.0	-14.8	1.50 V	250	39.2	-8.0
4	539.32	29.8 QP	46.0	-16.2	1.00 V	305	32.0	-2.2
5	632.79	30.8 QP	46.0	-15.2	1.50 V	200	30.7	0.1
6	749.11	33.0 QP	46.0	-13.0	3.00 V	46	30.9	2.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Unwanted Emissions above 1 GHz

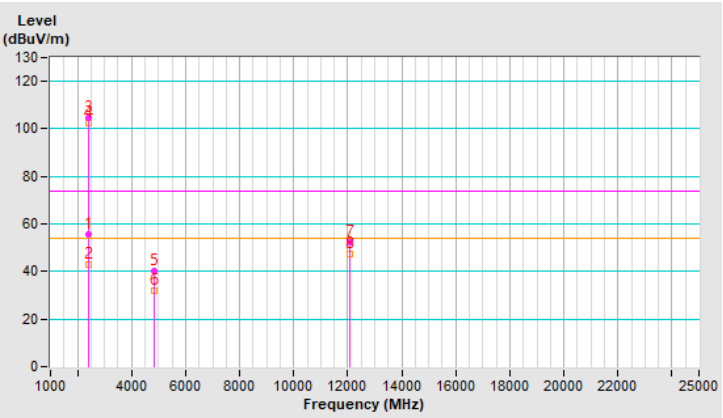
Mode A

RF Mode	802.11b	**Channel**	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	55.5 PK	74.0	-18.5	3.75 H	284	56.4	-0.9
2	2390.00	43.0 AV	54.0	-11.0	3.75 H	284	43.9	-0.9
3	*2412.00	104.5 PK			3.75 H	284	105.3	-0.8
4	*2412.00	102.4 AV			3.75 H	284	103.2	-0.8
5	4824.00	40.4 PK	74.0	-33.6	1.10 H	77	36.7	3.7
6	4824.00	32.1 AV	54.0	-21.9	1.10 H	77	28.4	3.7
7	12060.00	52.3 PK	74.0	-21.7	3.76 H	120	38.0	14.3
8	12060.00	47.5 AV	54.0	-6.5	3.76 H	120	33.2	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

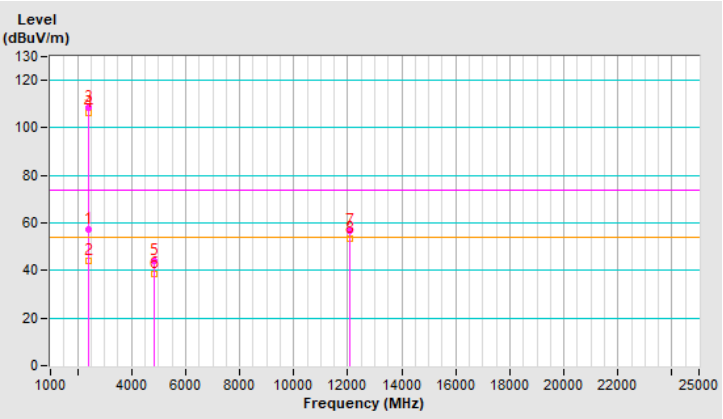


RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.5 PK	74.0	-16.5	2.31 V	333	58.4	-0.9
2	2390.00	44.1 AV	54.0	-9.9	2.31 V	333	45.0	-0.9
3	*2412.00	108.7 PK			2.31 V	333	109.5	-0.8
4	*2412.00	106.4 AV			2.31 V	333	107.2	-0.8
5	4824.00	44.3 PK	74.0	-29.7	2.90 V	34	40.6	3.7
6	4824.00	38.3 AV	54.0	-15.7	2.90 V	34	34.6	3.7
7	12060.00	56.8 PK	74.0	-17.2	2.52 V	168	42.5	14.3
8	12060.00	53.4 AV	54.0	-0.6	2.52 V	168	39.1	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

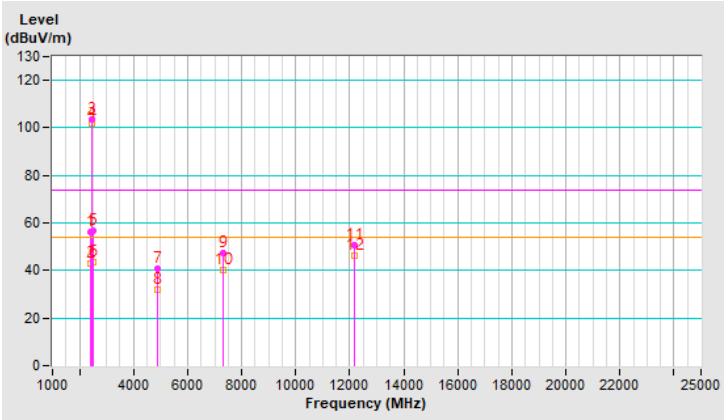


RF Mode	802.11b	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	3.67 H	290	57.2	-0.9
2	2390.00	43.1 AV	54.0	-10.9	3.67 H	290	44.0	-0.9
3	*2437.00	103.5 PK			3.67 H	290	104.3	-0.8
4	*2437.00	101.8 AV			3.67 H	290	102.6	-0.8
5	2483.50	56.9 PK	74.0	-17.1	3.67 H	290	57.8	-0.9
6	2483.50	43.5 AV	54.0	-10.5	3.67 H	290	44.4	-0.9
7	4874.00	40.6 PK	74.0	-33.4	1.05 H	74	36.9	3.7
8	4874.00	31.8 AV	54.0	-22.2	1.05 H	74	28.1	3.7
9	7311.00	47.2 PK	74.0	-26.8	1.31 H	11	36.7	10.5
10	7311.00	40.1 AV	54.0	-13.9	1.31 H	11	29.6	10.5
11	12185.00	50.8 PK	74.0	-23.2	3.90 H	125	36.5	14.3
12	12185.00	46.4 AV	54.0	-7.6	3.90 H	125	32.1	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

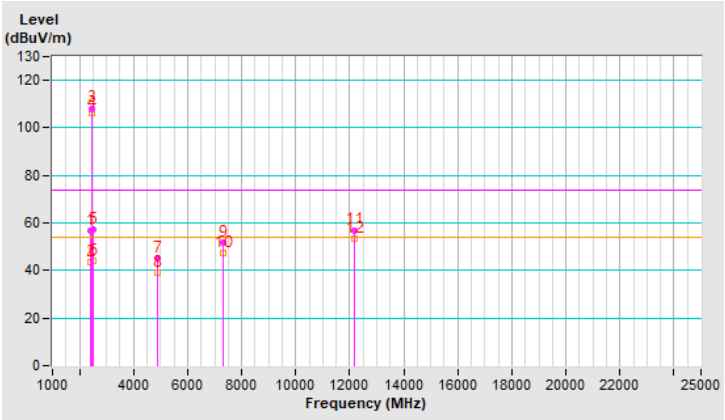


RF Mode	802.11b	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	2.39 V	337	57.6	-0.9
2	2390.00	43.3 AV	54.0	-10.7	2.39 V	337	44.2	-0.9
3	*2437.00	108.2 PK			2.39 V	337	109.0	-0.8
4	*2437.00	106.3 AV			2.39 V	337	107.1	-0.8
5	2483.50	57.3 PK	74.0	-16.7	2.39 V	337	58.2	-0.9
6	2483.50	43.9 AV	54.0	-10.1	2.39 V	337	44.8	-0.9
7	4874.00	45.0 PK	74.0	-29.0	2.87 V	28	41.3	3.7
8	4874.00	38.9 AV	54.0	-15.1	2.87 V	28	35.2	3.7
9	7311.00	51.8 PK	74.0	-22.2	2.50 V	189	41.3	10.5
10	7311.00	47.1 AV	54.0	-6.9	2.50 V	189	36.6	10.5
11	12185.00	57.0 PK	74.0	-17.0	2.65 V	179	42.7	14.3
12	12185.00	53.3 AV	54.0	-0.7	2.65 V	179	39.0	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

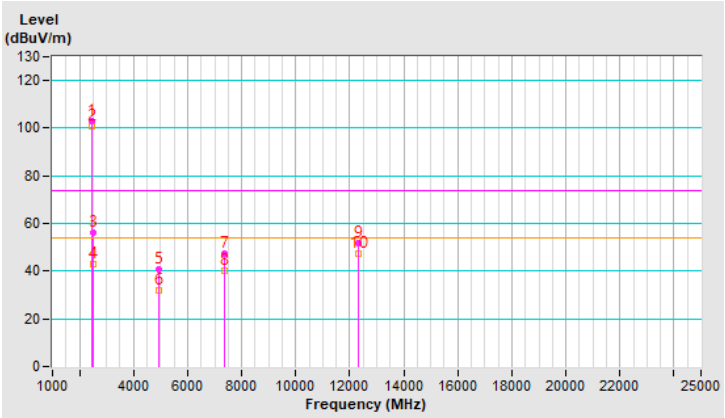


RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.0 PK			3.69 H	309	103.8	-0.8
2	*2462.00	100.7 AV			3.69 H	309	101.5	-0.8
3	2488.07	56.1 PK	74.0	-17.9	3.69 H	309	57.0	-0.9
4	2488.07	43.0 AV	54.0	-11.0	3.69 H	309	43.9	-0.9
5	4924.00	40.5 PK	74.0	-33.5	1.04 H	63	36.7	3.8
6	4924.00	31.9 AV	54.0	-22.1	1.04 H	63	28.1	3.8
7	7386.00	47.2 PK	74.0	-26.8	1.28 H	10	37.1	10.1
8	7386.00	40.1 AV	54.0	-13.9	1.28 H	10	30.0	10.1
9	12310.00	51.8 PK	74.0	-22.2	3.88 H	130	37.6	14.2
10	12310.00	47.2 AV	54.0	-6.8	3.88 H	130	33.0	14.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

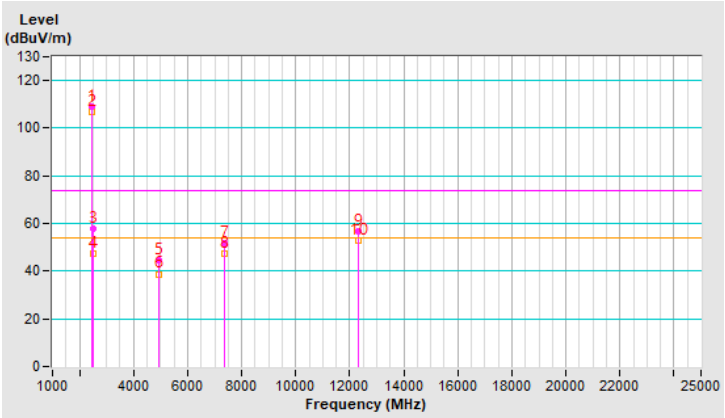


RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.3 PK			2.52 V	328	110.1	-0.8
2	*2462.00	107.0 AV			2.52 V	328	107.8	-0.8
3	2488.07	57.9 PK	74.0	-16.1	2.52 V	328	58.8	-0.9
4	2488.07	47.1 AV	54.0	-6.9	2.52 V	328	48.0	-0.9
5	4924.00	44.6 PK	74.0	-29.4	2.93 V	33	40.8	3.8
6	4924.00	38.8 AV	54.0	-15.2	2.93 V	33	35.0	3.8
7	7386.00	52.0 PK	74.0	-22.0	2.49 V	181	41.9	10.1
8	7386.00	47.2 AV	54.0	-6.8	2.49 V	181	37.1	10.1
9	12310.00	56.5 PK	74.0	-17.5	2.59 V	167	42.3	14.2
10	12310.00	53.1 AV	54.0	-0.9	2.59 V	167	38.9	14.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

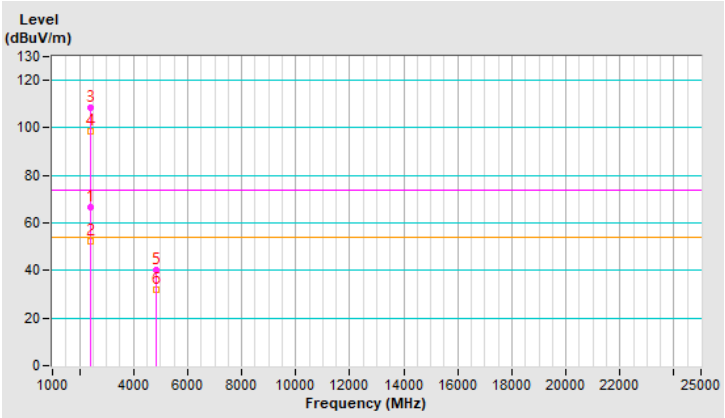


RF Mode	802.11g	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.8 PK	74.0	-7.2	3.73 H	286	67.7	-0.9
2	2390.00	52.1 AV	54.0	-1.9	3.73 H	286	53.0	-0.9
3	*2412.00	108.2 PK			3.73 H	286	109.0	-0.8
4	*2412.00	98.5 AV			3.73 H	286	99.3	-0.8
5	4824.00	40.3 PK	74.0	-33.7	1.01 H	55	36.6	3.7
6	4824.00	31.7 AV	54.0	-22.3	1.01 H	55	28.0	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

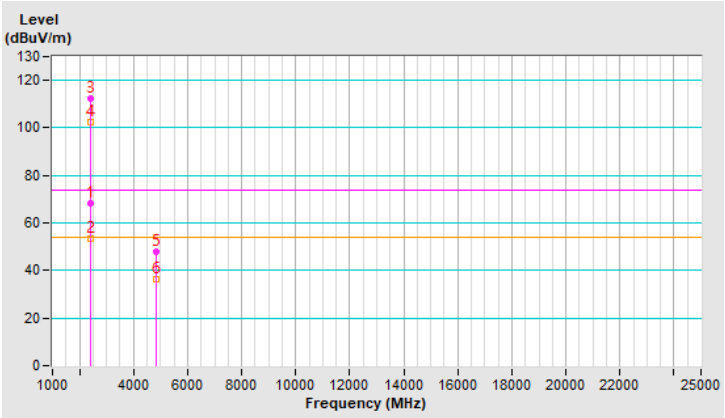


RF Mode	802.11g	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.1 PK	74.0	-5.9	2.30 V	333	69.0	-0.9
2	2390.00	53.4 AV	54.0	-0.6	2.30 V	333	54.3	-0.9
3	*2412.00	112.1 PK			2.30 V	333	112.9	-0.8
4	*2412.00	102.5 AV			2.30 V	333	103.3	-0.8
5	4824.00	47.7 PK	74.0	-26.3	2.66 V	86	44.0	3.7
6	4824.00	36.1 AV	54.0	-17.9	2.66 V	86	32.4	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

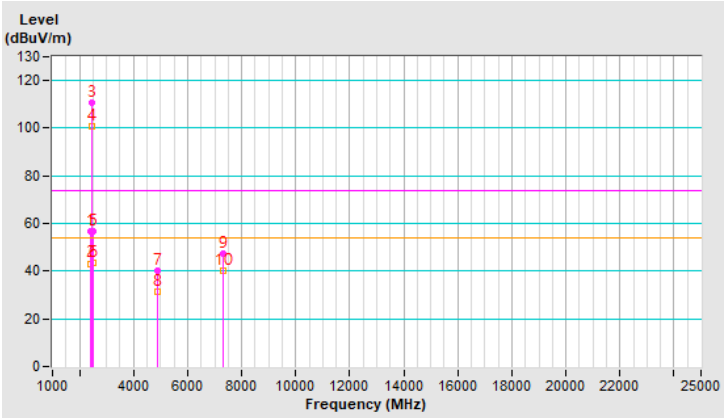


RF Mode	802.11g	**Channel**	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	56.6 PK	74.0	-17.4	3.66 H	279	57.5	-0.9
2	2390.00	43.2 AV	54.0	-10.8	3.66 H	279	44.1	-0.9
3	*2437.00	110.6 PK			3.66 H	279	111.4	-0.8
4	*2437.00	100.6 AV			3.66 H	279	101.4	-0.8
5	2483.50	56.9 PK	74.0	-17.1	3.66 H	279	57.8	-0.9
6	2483.50	43.4 AV	54.0	-10.6	3.66 H	279	44.3	-0.9
7	4874.00	40.0 PK	74.0	-34.0	1.01 H	61	36.3	3.7
8	4874.00	31.5 AV	54.0	-22.5	1.01 H	61	27.8	3.7
9	7311.00	47.4 PK	74.0	-26.6	1.28 H	1	36.9	10.5
10	7311.00	40.3 AV	54.0	-13.7	1.28 H	1	29.8	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

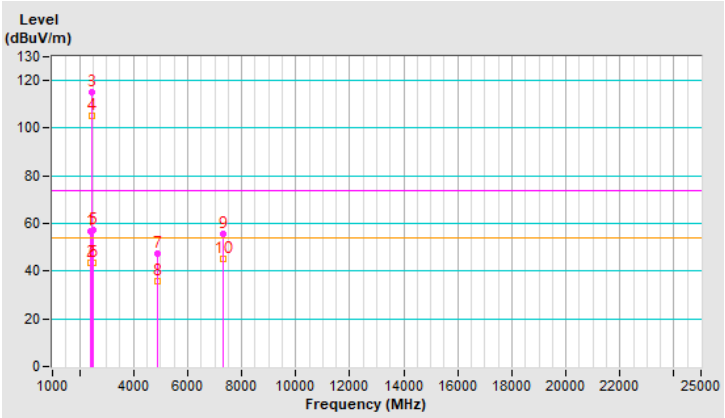


RF Mode	802.11g	**Channel**	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	56.6 PK	74.0	-17.4	2.22 V	330	57.5	-0.9
2	2390.00	43.5 AV	54.0	-10.5	2.22 V	330	44.4	-0.9
3	*2437.00	115.3 PK			2.22 V	330	116.1	-0.8
4	*2437.00	105.3 AV			2.22 V	330	106.1	-0.8
5	2483.50	57.2 PK	74.0	-16.8	2.22 V	330	58.1	-0.9
6	2483.50	43.7 AV	54.0	-10.3	2.22 V	330	44.6	-0.9
7	4874.00	47.2 PK	74.0	-26.8	2.71 V	101	43.5	3.7
8	4874.00	35.7 AV	54.0	-18.3	2.71 V	101	32.0	3.7
9	7311.00	55.8 PK	74.0	-18.2	2.47 V	182	45.3	10.5
10	7311.00	45.3 AV	54.0	-8.7	2.47 V	182	34.8	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

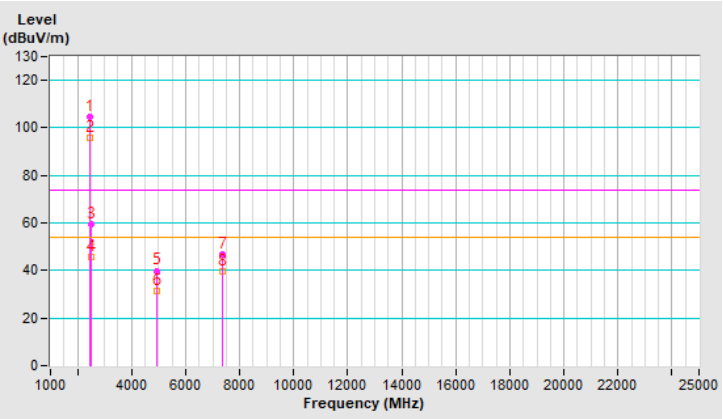


RF Mode	802.11g	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.8 PK			3.65 H	311	105.6	-0.8
2	*2462.00	95.8 AV			3.65 H	311	96.6	-0.8
3	2483.50	59.6 PK	74.0	-14.4	3.65 H	311	60.5	-0.9
4	2483.50	45.9 AV	54.0	-8.1	3.65 H	311	46.8	-0.9
5	4924.00	39.9 PK	74.0	-34.1	1.00 H	53	36.1	3.8
6	4924.00	31.5 AV	54.0	-22.5	1.00 H	53	27.7	3.8
7	7386.00	46.7 PK	74.0	-27.3	1.27 H	7	36.6	10.1
8	7386.00	39.8 AV	54.0	-14.2	1.27 H	7	29.7	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

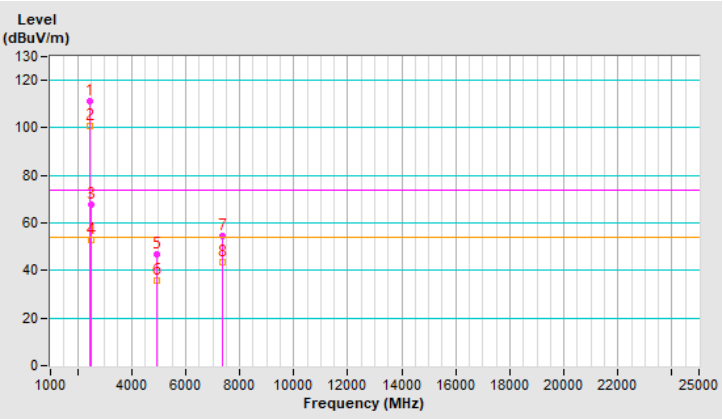


RF Mode	802.11g	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	111.5 PK			1.99 V	330	112.3	-0.8
2	*2462.00	100.7 AV			1.99 V	330	101.5	-0.8
3	2483.50	67.7 PK	74.0	-6.3	1.99 V	330	68.6	-0.9
4	2483.50	53.0 AV	54.0	-1.0	1.99 V	330	53.9	-0.9
5	4924.00	47.0 PK	74.0	-27.0	2.67 V	109	43.2	3.8
6	4924.00	35.8 AV	54.0	-18.2	2.67 V	109	32.0	3.8
7	7386.00	54.3 PK	74.0	-19.7	2.51 V	171	44.2	10.1
8	7386.00	43.7 AV	54.0	-10.3	2.51 V	171	33.6	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

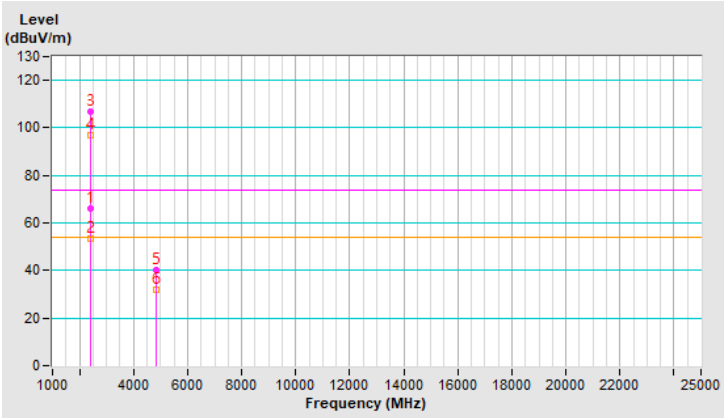


RF Mode	VHT20	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.1 PK	74.0	-7.9	3.74 H	283	67.0	-0.9
2	2390.00	53.4 AV	54.0	-0.6	3.74 H	283	54.3	-0.9
3	*2412.00	106.6 PK			3.74 H	283	107.4	-0.8
4	*2412.00	96.7 AV			3.74 H	283	97.5	-0.8
5	4824.00	40.3 PK	74.0	-33.7	1.04 H	65	36.6	3.7
6	4824.00	31.7 AV	54.0	-22.3	1.04 H	65	28.0	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

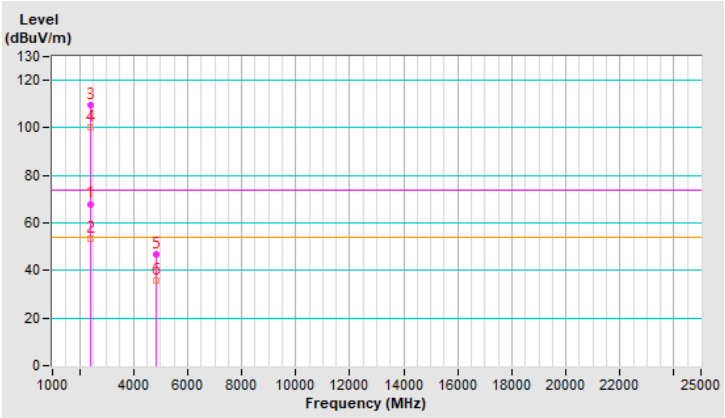


RF Mode	VHT20	**Channel**	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	68.0 PK	74.0	-6.0	2.31 V	333	68.9	-0.9
2	2390.00	53.6 AV	54.0	-0.4	2.31 V	333	54.5	-0.9
3	*2412.00	109.6 PK			2.31 V	333	110.4	-0.8
4	*2412.00	100.1 AV			2.31 V	333	100.9	-0.8
5	4824.00	46.9 PK	74.0	-27.1	2.66 V	100	43.2	3.7
6	4824.00	35.6 AV	54.0	-18.4	2.66 V	100	31.9	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

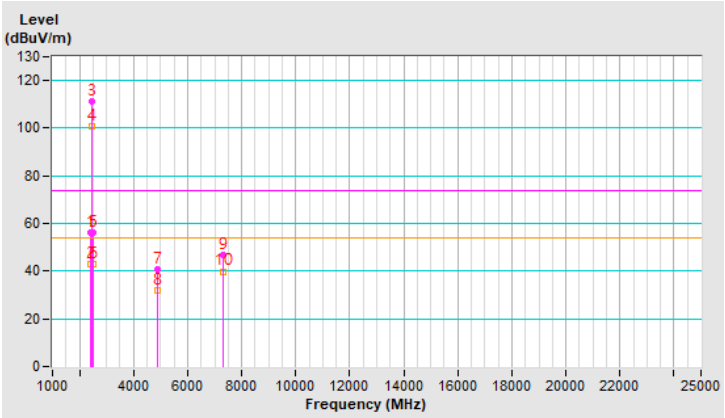


RF Mode	VHT20	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	3.62 H	290	57.3	-0.9
2	2390.00	43.0 AV	54.0	-11.0	3.62 H	290	43.9	-0.9
3	*2437.00	111.0 PK			3.62 H	290	111.8	-0.8
4	*2437.00	100.9 AV			3.62 H	290	101.7	-0.8
5	2483.50	56.3 PK	74.0	-17.7	3.62 H	290	57.2	-0.9
6	2483.50	43.0 AV	54.0	-11.0	3.62 H	290	43.9	-0.9
7	4874.00	40.5 PK	74.0	-33.5	1.06 H	53	36.8	3.7
8	4874.00	31.9 AV	54.0	-22.1	1.06 H	53	28.2	3.7
9	7311.00	46.9 PK	74.0	-27.1	1.32 H	3	36.4	10.5
10	7311.00	39.9 AV	54.0	-14.1	1.32 H	3	29.4	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

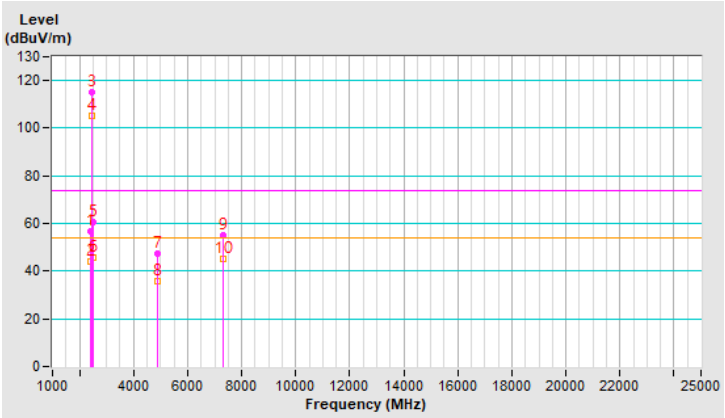


RF Mode	VHT20	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	1.37 V	350	57.7	-0.9
2	2390.00	43.8 AV	54.0	-10.2	1.37 V	350	44.7	-0.9
3	*2437.00	115.1 PK			1.37 V	350	115.9	-0.8
4	*2437.00	105.3 AV			1.37 V	350	106.1	-0.8
5	2483.50	60.7 PK	74.0	-13.3	1.37 V	350	61.6	-0.9
6	2483.50	45.6 AV	54.0	-8.4	1.37 V	350	46.5	-0.9
7	4874.00	47.4 PK	74.0	-26.6	2.70 V	115	43.7	3.7
8	4874.00	36.0 AV	54.0	-18.0	2.70 V	115	32.3	3.7
9	7311.00	55.1 PK	74.0	-18.9	2.51 V	182	44.6	10.5
10	7311.00	44.9 AV	54.0	-9.1	2.51 V	182	34.4	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

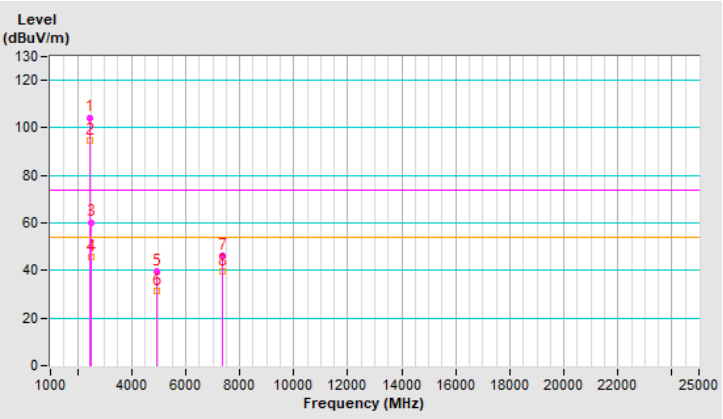


RF Mode	VHT20	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.4 PK			3.68 H	307	105.2	-0.8
2	*2462.00	94.9 AV			3.68 H	307	95.7	-0.8
3	2483.50	60.3 PK	74.0	-13.7	3.68 H	307	61.2	-0.9
4	2483.50	45.5 AV	54.0	-8.5	3.68 H	307	46.4	-0.9
5	4924.00	39.7 PK	74.0	-34.3	1.01 H	46	35.9	3.8
6	4924.00	31.4 AV	54.0	-22.6	1.01 H	46	27.6	3.8
7	7386.00	46.5 PK	74.0	-27.5	1.31 H	13	36.4	10.1
8	7386.00	39.5 AV	54.0	-14.5	1.31 H	13	29.4	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

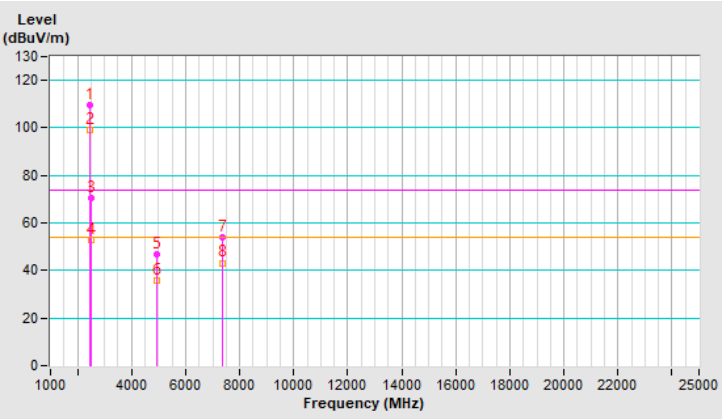


RF Mode	VHT20	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	109.4 PK			2.33 V	322	110.2	-0.8
2	*2462.00	99.0 AV			2.33 V	322	99.8	-0.8
3	2483.50	70.5 PK	74.0	-3.5	2.33 V	322	71.4	-0.9
4	2483.50	53.0 AV	54.0	-1.0	2.33 V	322	53.9	-0.9
5	4924.00	47.0 PK	74.0	-27.0	2.64 V	95	43.2	3.8
6	4924.00	36.0 AV	54.0	-18.0	2.64 V	95	32.2	3.8
7	7386.00	54.0 PK	74.0	-20.0	2.48 V	164	43.9	10.1
8	7386.00	43.2 AV	54.0	-10.8	2.48 V	164	33.1	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

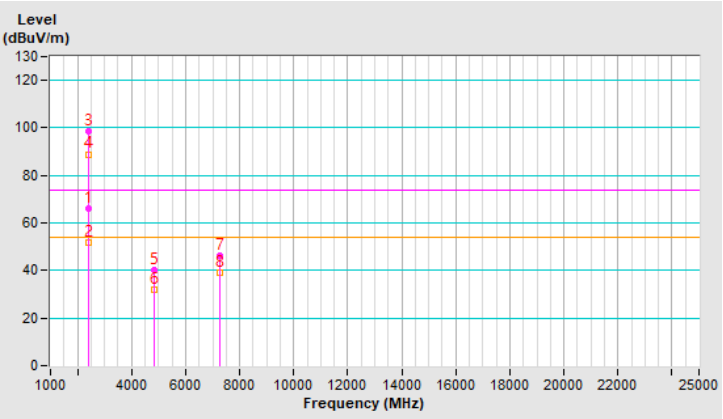


RF Mode	VHT40	**Channel**	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	66.3 PK	74.0	-7.7	3.79 H	280	67.2	-0.9
2	2390.00	51.8 AV	54.0	-2.2	3.79 H	280	52.7	-0.9
3	*2422.00	98.6 PK			3.79 H	280	99.4	-0.8
4	*2422.00	89.0 AV			3.79 H	280	89.8	-0.8
5	4844.00	40.1 PK	74.0	-33.9	1.06 H	48	36.4	3.7
6	4844.00	31.8 AV	54.0	-22.2	1.06 H	48	28.1	3.7
7	7266.00	46.2 PK	74.0	-27.8	1.32 H	16	35.8	10.4
8	7266.00	39.3 AV	54.0	-14.7	1.32 H	16	28.9	10.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

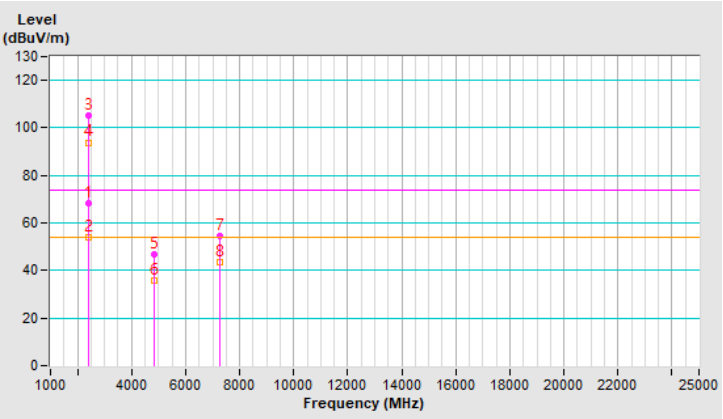


RF Mode	VHT40	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	2.32 V	330	69.4	-0.9
2	**2390.00**	**53.9 AV**	**54.0**	**-0.1**	**2.32 V**	**330**	**54.8**	**-0.9**
3	*2422.00	105.4 PK			2.32 V	330	106.2	-0.8
4	*2422.00	93.9 AV			2.32 V	330	94.7	-0.8
5	4844.00	46.6 PK	74.0	-27.4	2.68 V	89	42.9	3.7
6	4844.00	35.6 AV	54.0	-18.4	2.68 V	89	31.9	3.7
7	7266.00	54.3 PK	74.0	-19.7	2.44 V	153	43.9	10.4
8	7266.00	43.5 AV	54.0	-10.5	2.44 V	153	33.1	10.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

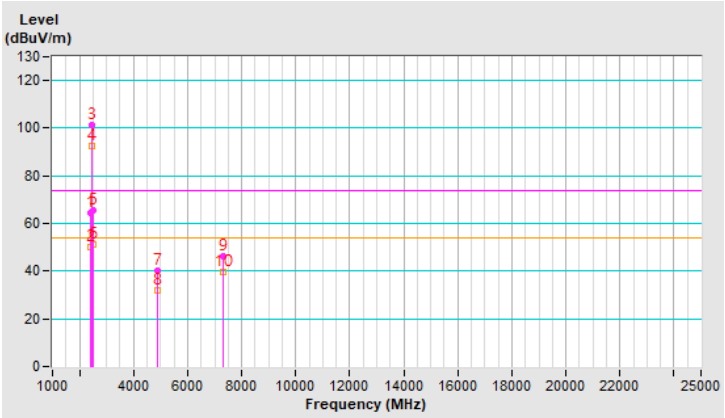


RF Mode	VHT40	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	64.3 PK	74.0	-9.7	3.60 H	300	65.2	-0.9
2	2390.00	50.1 AV	54.0	-3.9	3.60 H	300	51.0	-0.9
3	*2437.00	101.3 PK			3.60 H	300	102.1	-0.8
4	*2437.00	92.3 AV			3.60 H	300	93.1	-0.8
5	2483.50	65.3 PK	74.0	-8.7	3.60 H	300	66.2	-0.9
6	2483.50	51.3 AV	54.0	-2.7	3.60 H	300	52.2	-0.9
7	4874.00	40.2 PK	74.0	-33.8	1.02 H	53	36.5	3.7
8	4874.00	31.8 AV	54.0	-22.2	1.02 H	53	28.1	3.7
9	7311.00	46.5 PK	74.0	-27.5	1.36 H	7	36.0	10.5
10	7311.00	39.8 AV	54.0	-14.2	1.36 H	7	29.3	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

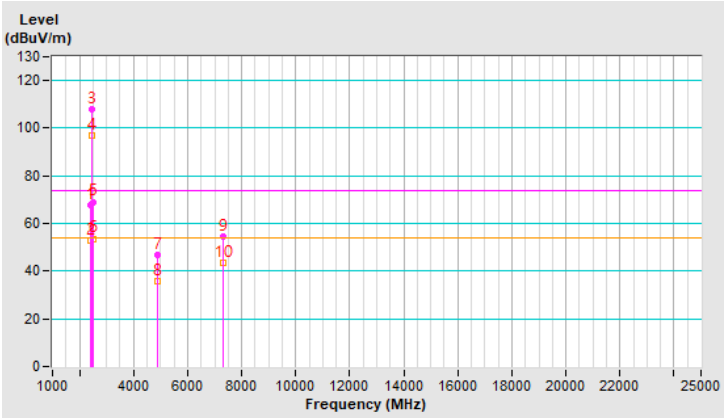


RF Mode	VHT40	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.35 V	269	68.6	-0.9
2	2390.00	53.0 AV	54.0	-1.0	1.35 V	269	53.9	-0.9
3	*2437.00	108.1 PK			1.35 V	269	108.9	-0.8
4	*2437.00	96.7 AV			1.35 V	269	97.5	-0.8
5	2483.50	69.1 PK	74.0	-4.9	1.35 V	269	70.0	-0.9
6	2483.50	53.7 AV	54.0	-0.3	1.35 V	269	54.6	-0.9
7	4874.00	46.7 PK	74.0	-27.3	2.69 V	85	43.0	3.7
8	4874.00	36.0 AV	54.0	-18.0	2.69 V	85	32.3	3.7
9	7311.00	54.4 PK	74.0	-19.6	2.47 V	173	43.9	10.5
10	7311.00	43.4 AV	54.0	-10.6	2.47 V	173	32.9	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

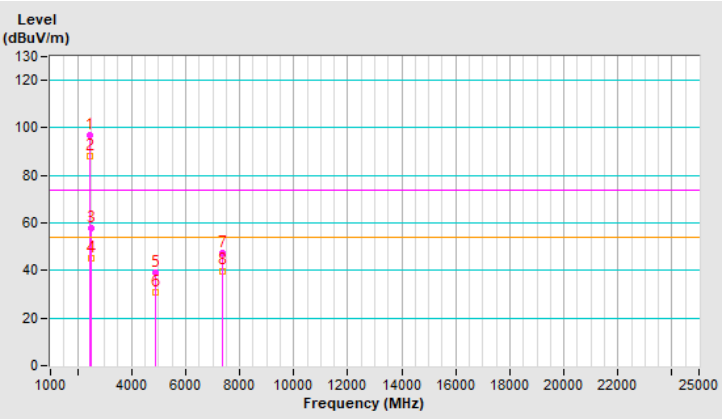


RF Mode	VHT40	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	96.7 PK			3.62 H	313	97.5	-0.8
2	*2452.00	87.9 AV			3.62 H	313	88.7	-0.8
3	2483.50	57.6 PK	74.0	-16.4	3.62 H	313	58.5	-0.9
4	2483.50	45.0 AV	54.0	-9.0	3.62 H	313	45.9	-0.9
5	4904.00	39.1 PK	74.0	-34.9	1.06 H	31	35.4	3.7
6	4904.00	30.9 AV	54.0	-23.1	1.06 H	31	27.2	3.7
7	7356.00	47.1 PK	74.0	-26.9	1.36 H	14	36.9	10.2
8	7356.00	39.9 AV	54.0	-14.1	1.36 H	14	29.7	10.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

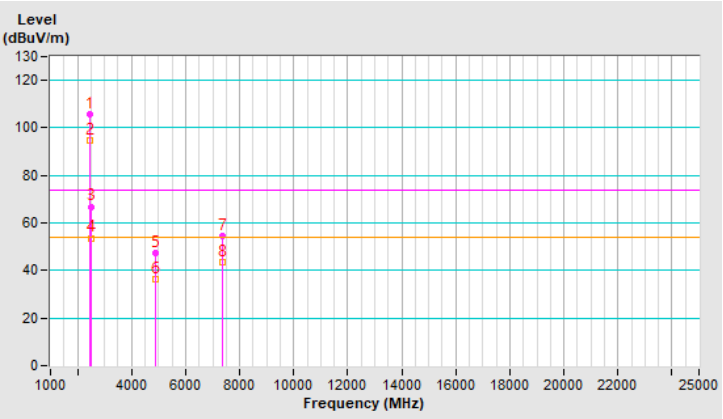


RF Mode	VHT40	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	105.6 PK			1.49 V	257	106.4	-0.8
2	*2452.00	94.5 AV			1.49 V	257	95.3	-0.8
3	2483.50	66.9 PK	74.0	-7.1	1.49 V	257	67.8	-0.9
4	2483.50	53.7 AV	54.0	-0.3	1.49 V	257	54.6	-0.9
5	4904.00	47.4 PK	74.0	-26.6	2.62 V	90	43.7	3.7
6	4904.00	36.3 AV	54.0	-17.7	2.62 V	90	32.6	3.7
7	7356.00	54.5 PK	74.0	-19.5	2.46 V	157	44.3	10.2
8	7356.00	43.5 AV	54.0	-10.5	2.46 V	157	33.3	10.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



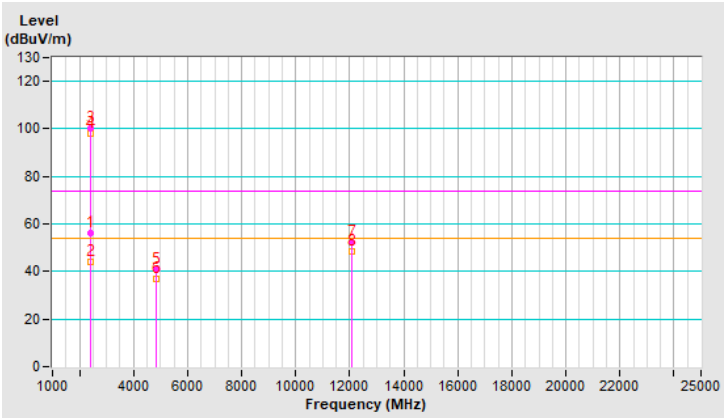
Mode B

RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2386.57	56.3 PK	74.0	-17.7	1.42 H	108	57.2	-0.9
2	2386.57	44.3 AV	54.0	-9.7	1.42 H	108	45.2	-0.9
3	*2412.00	100.4 PK			1.42 H	108	101.2	-0.8
4	*2412.00	98.2 AV			1.42 H	108	99.0	-0.8
5	4824.00	40.6 PK	74.0	-33.4	1.02 H	67	36.9	3.7
6	4824.00	36.8 AV	54.0	-17.2	1.02 H	67	33.1	3.7
7	12060.00	52.3 PK	74.0	-21.7	1.39 H	100	38.0	14.3
8	12060.00	48.3 AV	54.0	-5.7	1.39 H	100	34.0	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

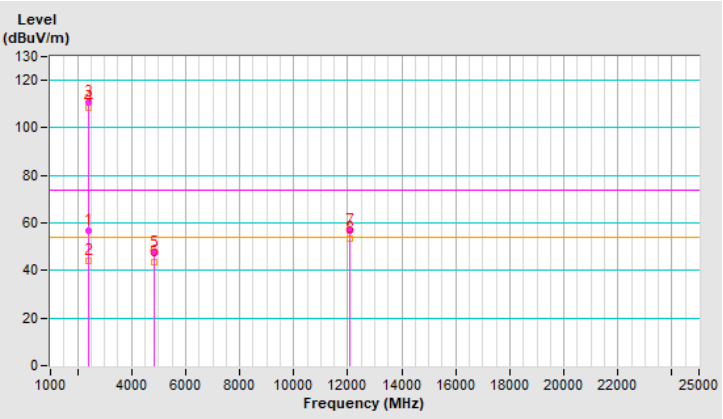


RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	3.02 V	168	57.6	-0.9
2	2390.00	44.3 AV	54.0	-9.7	3.02 V	168	45.2	-0.9
3	*2412.00	110.8 PK			3.02 V	168	111.6	-0.8
4	*2412.00	108.5 AV			3.02 V	168	109.3	-0.8
5	4824.00	47.2 PK	74.0	-26.8	2.75 V	161	43.5	3.7
6	4824.00	43.4 AV	54.0	-10.6	2.75 V	161	39.7	3.7
7	12060.00	56.6 PK	74.0	-17.4	2.56 V	169	42.3	14.3
8	12060.00	53.4 AV	54.0	-0.6	2.56 V	169	39.1	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

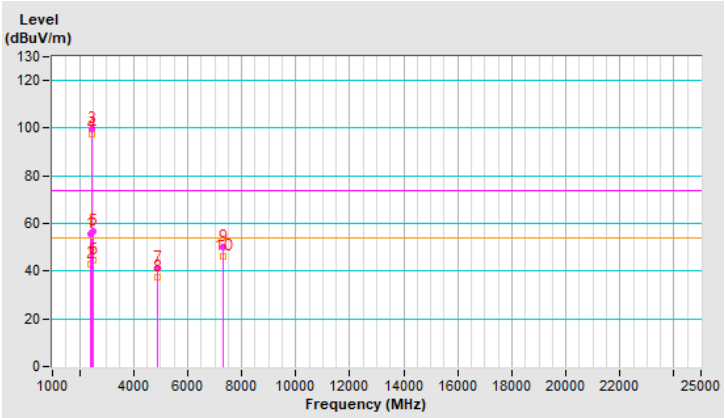


RF Mode	802.11b	**Channel**	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	55.4 PK	74.0	-18.6	1.45 H	117	56.3	-0.9
2	2390.00	43.1 AV	54.0	-10.9	1.45 H	117	44.0	-0.9
3	*2437.00	99.6 PK			1.45 H	117	100.4	-0.8
4	*2437.00	97.3 AV			1.45 H	117	98.1	-0.8
5	2483.50	56.9 PK	74.0	-17.1	1.45 H	117	57.8	-0.9
6	2483.50	44.5 AV	54.0	-9.5	1.45 H	117	45.4	-0.9
7	4874.00	41.2 PK	74.0	-32.8	1.01 H	87	37.5	3.7
8	4874.00	37.2 AV	54.0	-16.8	1.01 H	87	33.5	3.7
9	7311.00	50.3 PK	74.0	-23.7	1.32 H	2	39.8	10.5
10	7311.00	46.3 AV	54.0	-7.7	1.32 H	2	35.8	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

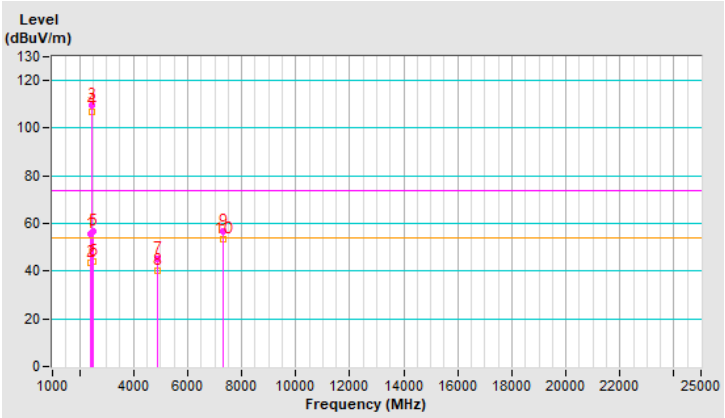


RF Mode	802.11b	**Channel**	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	55.6 PK	74.0	-18.4	3.00 V	177	56.5	-0.9
2	2390.00	43.4 AV	54.0	-10.6	3.00 V	177	44.3	-0.9
3	*2437.00	109.8 PK			3.00 V	177	110.6	-0.8
4	*2437.00	107.1 AV			3.00 V	177	107.9	-0.8
5	2483.50	56.7 PK	74.0	-17.3	3.00 V	177	57.6	-0.9
6	2483.50	44.1 AV	54.0	-9.9	3.00 V	177	45.0	-0.9
7	4874.00	44.9 PK	74.0	-29.1	2.66 V	168	41.2	3.7
8	4874.00	40.4 AV	54.0	-13.6	2.66 V	168	36.7	3.7
9	7311.00	56.7 PK	74.0	-17.3	2.84 V	171	46.2	10.5
10	7311.00	53.5 AV	54.0	-0.5	2.84 V	171	43.0	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

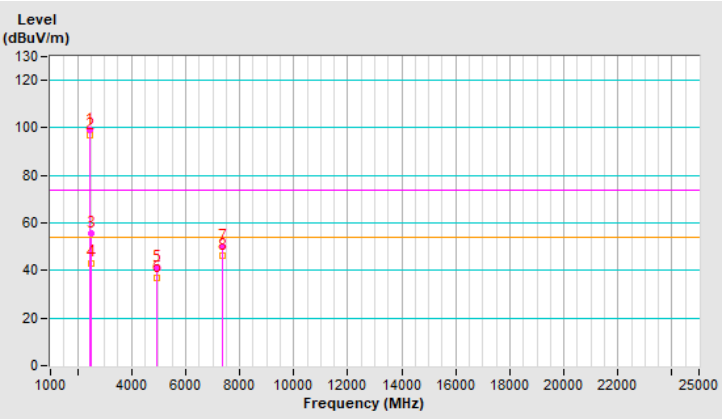


RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	99.1 PK			1.45 H	110	99.9	-0.8
2	*2462.00	96.9 AV			1.45 H	110	97.7	-0.8
3	2484.37	55.5 PK	74.0	-18.5	1.45 H	110	56.4	-0.9
4	2484.37	43.2 AV	54.0	-10.8	1.45 H	110	44.1	-0.9
5	4924.00	41.1 PK	74.0	-32.9	1.08 H	69	37.3	3.8
6	4924.00	37.1 AV	54.0	-16.9	1.08 H	69	33.3	3.8
7	7386.00	50.3 PK	74.0	-23.7	1.27 H	22	40.2	10.1
8	7386.00	46.3 AV	54.0	-7.7	1.27 H	22	36.2	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

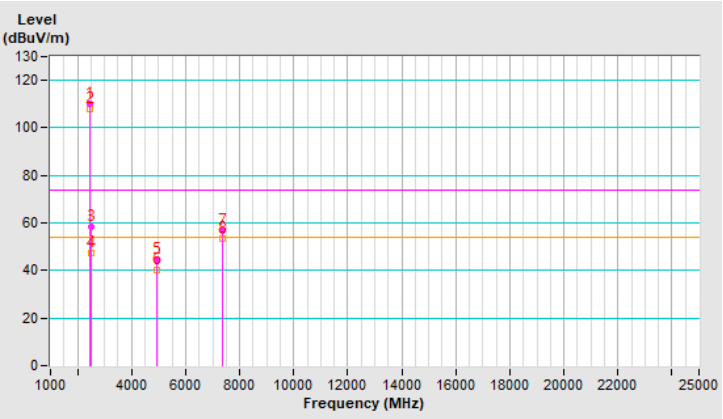


RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.2 PK			2.94 V	188	111.0	-0.8
2	*2462.00	107.7 AV			2.94 V	188	108.5	-0.8
3	2487.87	58.2 PK	74.0	-15.8	2.94 V	188	59.1	-0.9
4	2487.87	47.5 AV	54.0	-6.5	2.94 V	188	48.4	-0.9
5	4924.00	44.5 PK	74.0	-29.5	2.68 V	154	40.7	3.8
6	4924.00	40.3 AV	54.0	-13.7	2.68 V	154	36.5	3.8
7	7386.00	56.5 PK	74.0	-17.5	2.88 V	181	46.4	10.1
8	7386.00	53.2 AV	54.0	-0.8	2.88 V	181	43.1	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

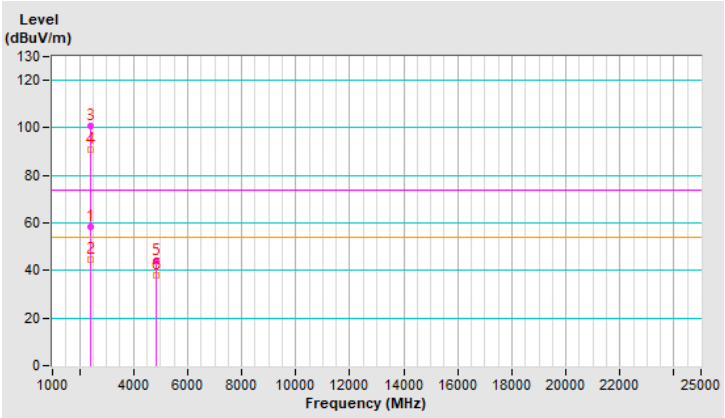


RF Mode	802.11g	**Channel**	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	2390.00	58.2 PK	74.0	-15.8	1.44 H	109	59.1	-0.9
2	2390.00	44.4 AV	54.0	-9.6	1.44 H	109	45.3	-0.9
3	*2412.00	101.0 PK			1.44 H	109	101.8	-0.8
4	*2412.00	91.1 AV			1.44 H	109	91.9	-0.8
5	4824.00	43.9 PK	74.0	-30.1	1.04 H	66	40.2	3.7
6	4824.00	38.0 AV	54.0	-16.0	1.04 H	66	34.3	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

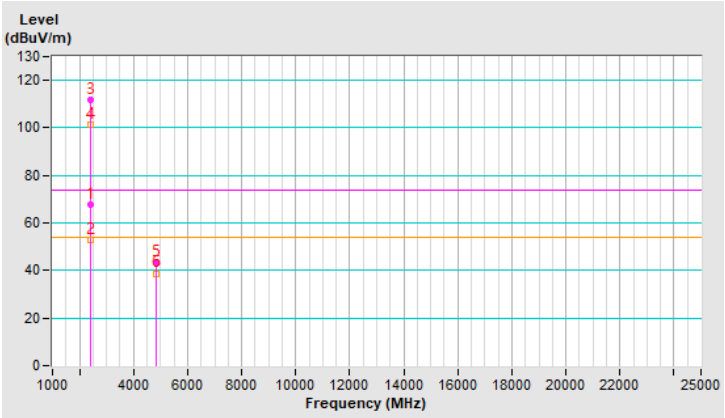


RF Mode	802.11g	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.52 V	354	68.6	-0.9
2	2390.00	53.0 AV	54.0	-1.0	1.52 V	354	53.9	-0.9
3	*2412.00	112.0 PK			1.52 V	354	112.8	-0.8
4	*2412.00	101.4 AV			1.52 V	354	102.2	-0.8
5	4824.00	43.3 PK	74.0	-30.7	2.77 V	80	39.6	3.7
6	4824.00	38.8 AV	54.0	-15.2	2.77 V	80	35.1	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

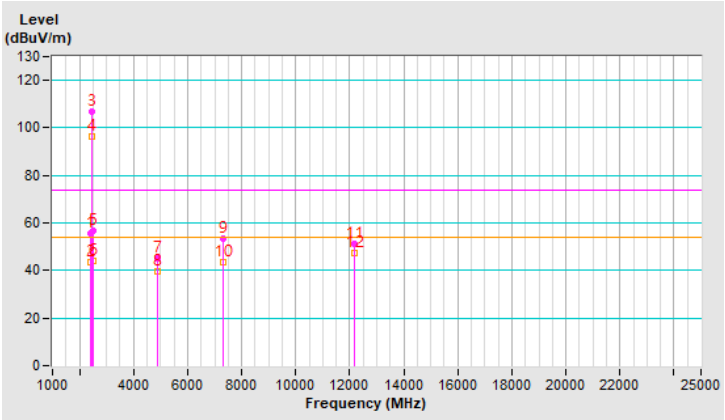


RF Mode	802.11g	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.4 PK	74.0	-18.6	1.50 H	105	56.3	-0.9
2	2390.00	43.4 AV	54.0	-10.6	1.50 H	105	44.3	-0.9
3	*2437.00	106.7 PK			1.50 H	105	107.5	-0.8
4	*2437.00	96.3 AV			1.50 H	105	97.1	-0.8
5	2483.50	56.6 PK	74.0	-17.4	1.50 H	105	57.5	-0.9
6	2483.50	43.8 AV	54.0	-10.2	1.50 H	105	44.7	-0.9
7	4874.00	45.3 PK	74.0	-28.7	1.02 H	77	41.6	3.7
8	4874.00	39.4 AV	54.0	-14.6	1.02 H	77	35.7	3.7
9	7311.00	53.4 PK	74.0	-20.6	1.28 H	10	42.9	10.5
10	7311.00	43.3 AV	54.0	-10.7	1.28 H	10	32.8	10.5
11	12185.00	51.3 PK	74.0	-22.7	1.44 H	23	37.0	14.3
12	12185.00	47.3 AV	54.0	-6.7	1.44 H	23	33.0	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

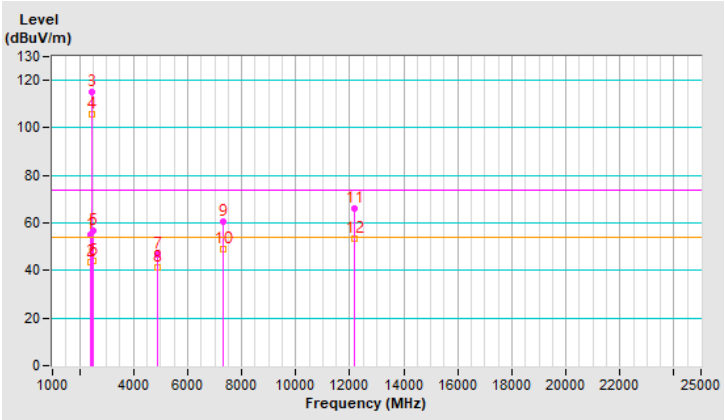


RF Mode	802.11g	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	1.49 V	355	56.2	-0.9
2	2390.00	43.3 AV	54.0	-10.7	1.49 V	355	44.2	-0.9
3	*2437.00	115.3 PK			1.49 V	355	116.1	-0.8
4	*2437.00	105.6 AV			1.49 V	355	106.4	-0.8
5	2483.50	56.7 PK	74.0	-17.3	1.49 V	355	57.6	-0.9
6	2483.50	44.0 AV	54.0	-10.0	1.49 V	355	44.9	-0.9
7	4874.00	46.7 PK	74.0	-27.3	2.93 V	42	43.0	3.7
8	4874.00	41.2 AV	54.0	-12.8	2.93 V	42	37.5	3.7
9	7311.00	60.4 PK	74.0	-13.6	2.47 V	190	49.9	10.5
10	7311.00	49.0 AV	54.0	-5.0	2.47 V	190	38.5	10.5
11	12185.00	66.2 PK	74.0	-7.8	2.70 V	169	51.9	14.3
12	12185.00	53.3 AV	54.0	-0.7	2.70 V	169	39.0	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

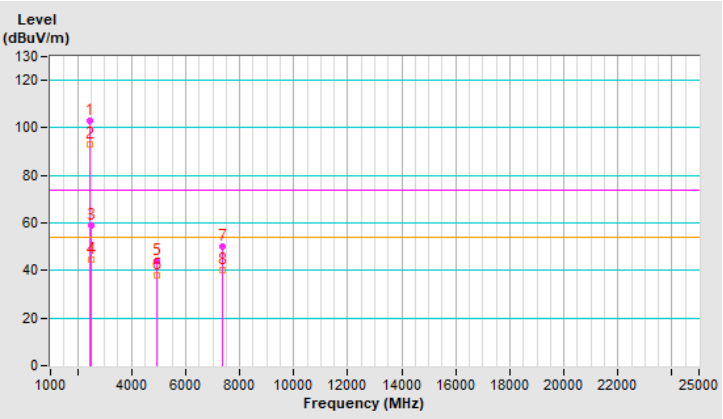


RF Mode	802.11g	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	103.0 PK			1.05 H	263	103.8	-0.8
2	*2462.00	92.8 AV			1.05 H	263	93.6	-0.8
3	2483.50	58.8 PK	74.0	-15.2	1.05 H	263	59.7	-0.9
4	2483.50	44.8 AV	54.0	-9.2	1.05 H	263	45.7	-0.9
5	4924.00	44.3 PK	74.0	-29.7	1.02 H	72	40.5	3.8
6	4924.00	38.2 AV	54.0	-15.8	1.02 H	72	34.4	3.8
7	7386.00	50.3 PK	74.0	-23.7	1.30 H	24	40.2	10.1
8	7386.00	40.3 AV	54.0	-13.7	1.30 H	24	30.2	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

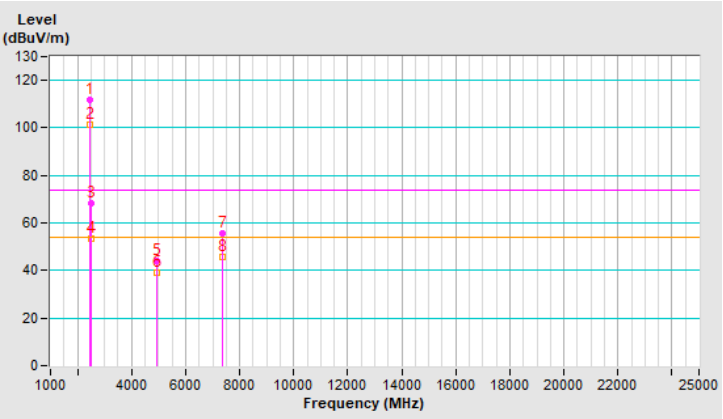


RF Mode	802.11g	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	111.6 PK			1.60 V	355	112.4	-0.8
2	*2462.00	101.1 AV			1.60 V	355	101.9	-0.8
3	2483.50	68.4 PK	74.0	-5.6	1.60 V	355	69.3	-0.9
4	2483.50	53.3 AV	54.0	-0.7	1.60 V	355	54.2	-0.9
5	4924.00	44.3 PK	74.0	-29.7	2.97 V	27	40.5	3.8
6	4924.00	39.0 AV	54.0	-15.0	2.97 V	27	35.2	3.8
7	7386.00	55.6 PK	74.0	-18.4	2.49 V	193	45.5	10.1
8	7386.00	45.6 AV	54.0	-8.4	2.49 V	193	35.5	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

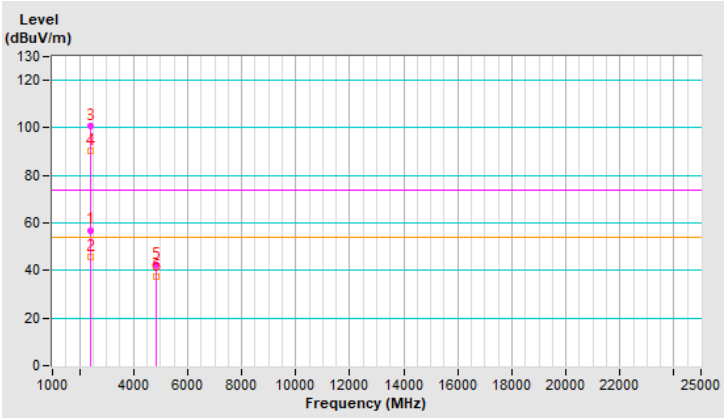


RF Mode	VHT20	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.47 H	110	57.9	-0.9
2	2390.00	45.5 AV	54.0	-8.5	1.47 H	110	46.4	-0.9
3	*2412.00	100.8 PK			1.47 H	110	101.6	-0.8
4	*2412.00	90.1 AV			1.47 H	110	90.9	-0.8
5	4824.00	42.6 PK	74.0	-31.4	1.08 H	86	38.9	3.7
6	4824.00	37.6 AV	54.0	-16.4	1.08 H	86	33.9	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

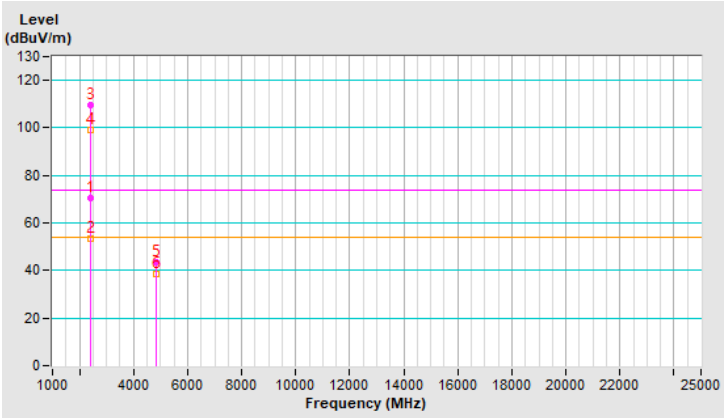


RF Mode	VHT20	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2389.62	70.3 PK	74.0	-3.7	1.51 V	356	71.2	-0.9
2	2389.62	53.2 AV	54.0	-0.8	1.51 V	356	54.1	-0.9
3	*2412.00	109.7 PK			1.51 V	356	110.5	-0.8
4	*2412.00	99.2 AV			1.51 V	356	100.0	-0.8
5	4824.00	43.7 PK	74.0	-30.3	2.96 V	46	40.0	3.7
6	4824.00	38.6 AV	54.0	-15.4	2.96 V	46	34.9	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

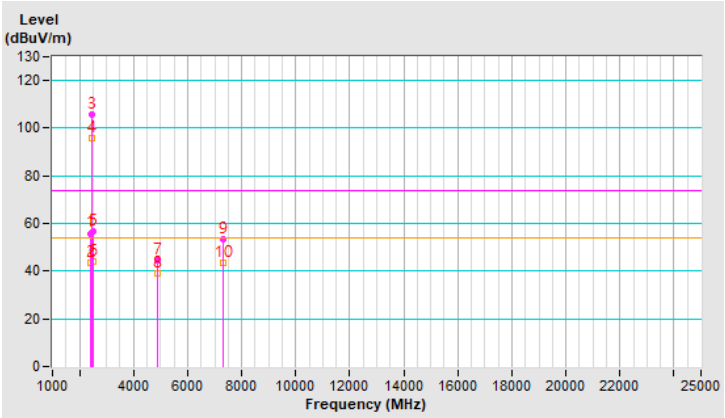


RF Mode	VHT20	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	1.41 H	115	56.8	-0.9
2	2390.00	43.7 AV	54.0	-10.3	1.41 H	115	44.6	-0.9
3	*2437.00	105.9 PK			1.41 H	115	106.7	-0.8
4	*2437.00	95.8 AV			1.41 H	115	96.6	-0.8
5	2483.50	56.6 PK	74.0	-17.4	1.41 H	115	57.5	-0.9
6	2483.50	44.0 AV	54.0	-10.0	1.41 H	115	44.9	-0.9
7	4874.00	44.8 PK	74.0	-29.2	1.05 H	59	41.1	3.7
8	4874.00	39.1 AV	54.0	-14.9	1.05 H	59	35.4	3.7
9	7311.00	53.3 PK	74.0	-20.7	1.36 H	6	42.8	10.5
10	7311.00	43.3 AV	54.0	-10.7	1.36 H	6	32.8	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

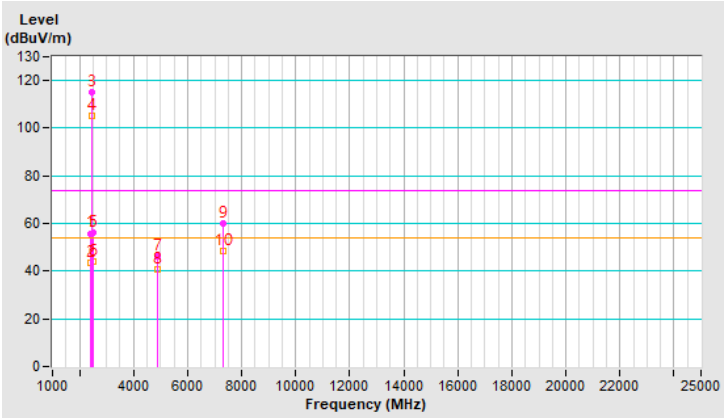


RF Mode	VHT20	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	1.45 V	348	56.8	-0.9
2	2390.00	43.7 AV	54.0	-10.3	1.45 V	348	44.6	-0.9
3	*2437.00	114.9 PK			1.45 V	348	115.7	-0.8
4	*2437.00	105.1 AV			1.45 V	348	105.9	-0.8
5	2483.50	56.2 PK	74.0	-17.8	1.45 V	348	57.1	-0.9
6	2483.50	43.8 AV	54.0	-10.2	1.45 V	348	44.7	-0.9
7	4874.00	46.2 PK	74.0	-27.8	2.98 V	39	42.5	3.7
8	4874.00	40.7 AV	54.0	-13.3	2.98 V	39	37.0	3.7
9	7311.00	60.0 PK	74.0	-14.0	2.44 V	205	49.5	10.5
10	7311.00	48.6 AV	54.0	-5.4	2.44 V	205	38.1	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

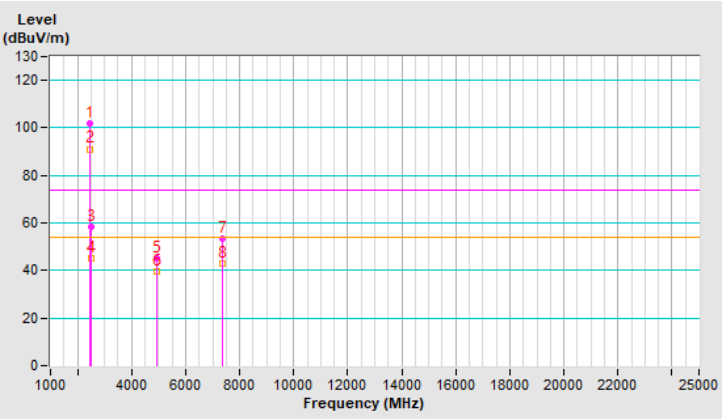


RF Mode	VHT20	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	102.0 PK			1.04 H	261	102.8	-0.8
2	*2462.00	91.2 AV			1.04 H	261	92.0	-0.8
3	2483.50	58.2 PK	74.0	-15.8	1.04 H	261	59.1	-0.9
4	2483.50	45.0 AV	54.0	-9.0	1.04 H	261	45.9	-0.9
5	4924.00	45.0 PK	74.0	-29.0	1.03 H	80	41.2	3.8
6	4924.00	39.4 AV	54.0	-14.6	1.03 H	80	35.6	3.8
7	7386.00	53.2 PK	74.0	-20.8	1.31 H	15	43.1	10.1
8	7386.00	43.1 AV	54.0	-10.9	1.31 H	15	33.0	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

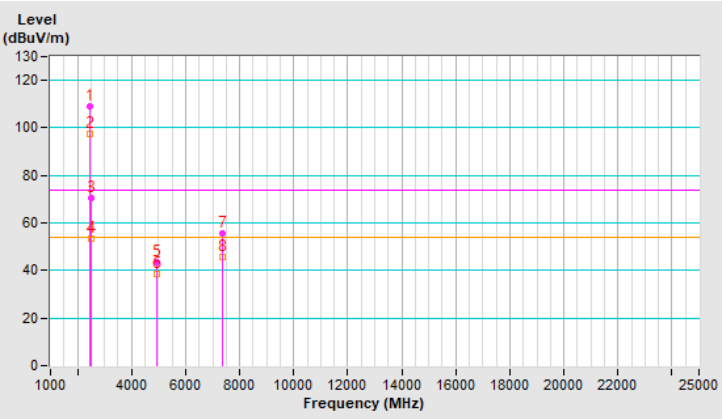


RF Mode	VHT20	**Channel**	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*2462.00	108.8 PK			1.68 V	360	109.6	-0.8
2	*2462.00	97.7 AV			1.68 V	360	98.5	-0.8
3	2483.50	70.6 PK	74.0	-3.4	1.68 V	360	71.5	-0.9
4	2483.50	53.4 AV	54.0	-0.6	1.68 V	360	54.3	-0.9
5	4924.00	43.7 PK	74.0	-30.3	2.94 V	49	39.9	3.8
6	4924.00	38.5 AV	54.0	-15.5	2.94 V	49	34.7	3.8
7	7386.00	55.8 PK	74.0	-18.2	2.43 V	202	45.7	10.1
8	7386.00	45.7 AV	54.0	-8.3	2.43 V	202	35.6	10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

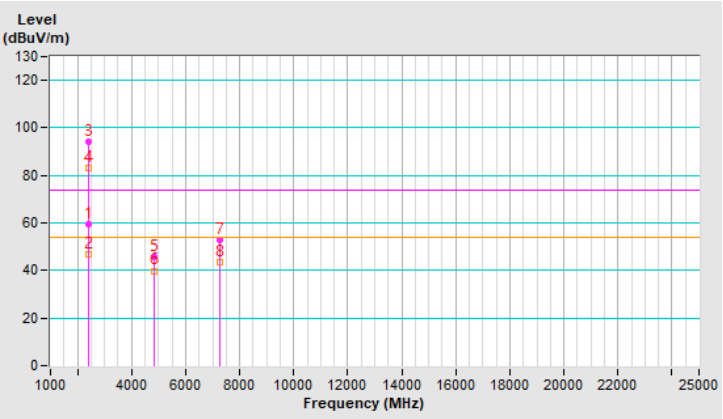


RF Mode	VHT40	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	1.40 H	67	60.4	-0.9
2	2390.00	46.6 AV	54.0	-7.4	1.40 H	67	47.5	-0.9
3	*2422.00	94.1 PK			1.40 H	67	94.9	-0.8
4	*2422.00	83.2 AV			1.40 H	67	84.0	-0.8
5	4844.00	45.5 PK	74.0	-28.5	1.11 H	76	41.8	3.7
6	4844.00	39.9 AV	54.0	-14.1	1.11 H	76	36.2	3.7
7	7266.00	53.1 PK	74.0	-20.9	1.36 H	18	42.7	10.4
8	7266.00	43.3 AV	54.0	-10.7	1.36 H	18	32.9	10.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

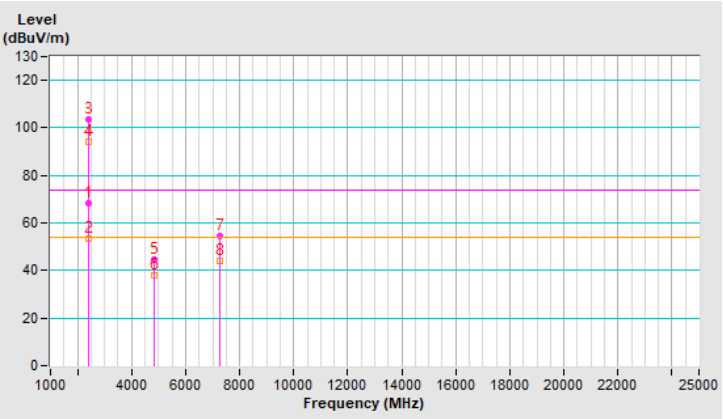


RF Mode	VHT40	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	1.01 V	88	69.4	-0.9
2	2390.00	53.2 AV	54.0	-0.8	1.01 V	88	54.1	-0.9
3	*2422.00	103.7 PK			1.01 V	88	104.5	-0.8
4	*2422.00	94.1 AV			1.01 V	88	94.9	-0.8
5	4844.00	44.5 PK	74.0	-29.5	2.97 V	44	40.8	3.7
6	4844.00	38.2 AV	54.0	-15.8	2.97 V	44	34.5	3.7
7	7266.00	54.6 PK	74.0	-19.4	2.34 V	193	44.2	10.4
8	7266.00	44.3 AV	54.0	-9.7	2.34 V	193	33.9	10.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

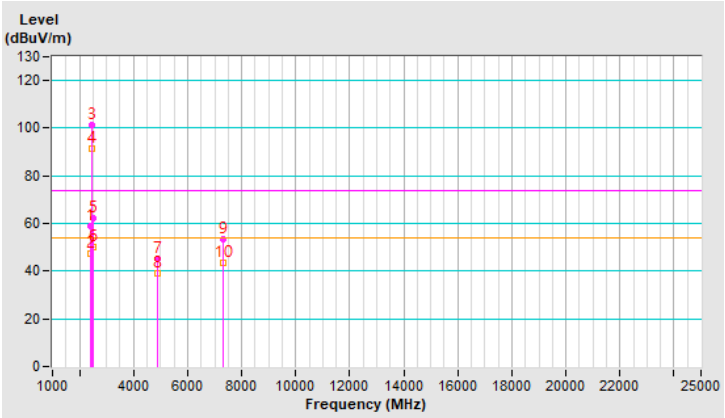


RF Mode	VHT40	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.8 PK	74.0	-15.2	1.49 H	119	59.7	-0.9
2	2390.00	47.3 AV	54.0	-6.7	1.49 H	119	48.2	-0.9
3	*2437.00	101.3 PK			1.49 H	119	102.1	-0.8
4	*2437.00	91.3 AV			1.49 H	119	92.1	-0.8
5	2483.50	62.3 PK	74.0	-11.7	1.49 H	119	63.2	-0.9
6	2483.50	50.1 AV	54.0	-3.9	1.49 H	119	51.0	-0.9
7	4874.00	45.1 PK	74.0	-28.9	1.11 H	70	41.4	3.7
8	4874.00	39.2 AV	54.0	-14.8	1.11 H	70	35.5	3.7
9	7311.00	53.5 PK	74.0	-20.5	1.34 H	25	43.0	10.5
10	7311.00	43.7 AV	54.0	-10.3	1.34 H	25	33.2	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

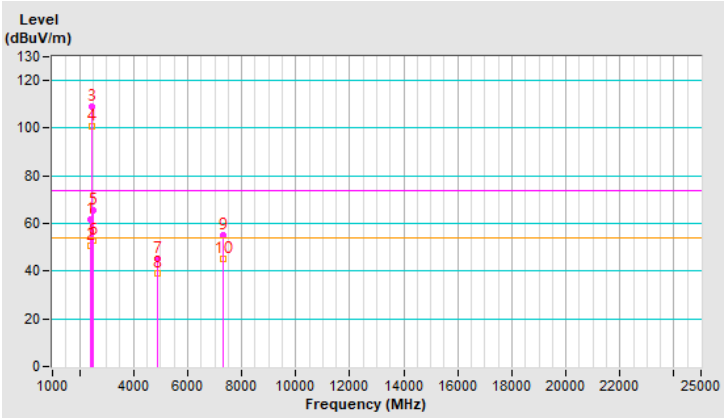


RF Mode	VHT40	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.9 PK	74.0	-12.1	1.67 V	344	62.8	-0.9
2	2390.00	50.7 AV	54.0	-3.3	1.67 V	344	51.6	-0.9
3	*2437.00	109.0 PK			1.67 V	344	109.8	-0.8
4	*2437.00	101.0 AV			1.67 V	344	101.8	-0.8
5	2483.50	65.7 PK	74.0	-8.3	1.67 V	344	66.6	-0.9
6	2483.50	53.1 AV	54.0	-0.9	1.67 V	344	54.0	-0.9
7	4874.00	45.3 PK	74.0	-28.7	2.92 V	44	41.6	3.7
8	4874.00	39.2 AV	54.0	-14.8	2.92 V	44	35.5	3.7
9	7311.00	55.3 PK	74.0	-18.7	2.40 V	196	44.8	10.5
10	7311.00	45.3 AV	54.0	-8.7	2.40 V	196	34.8	10.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

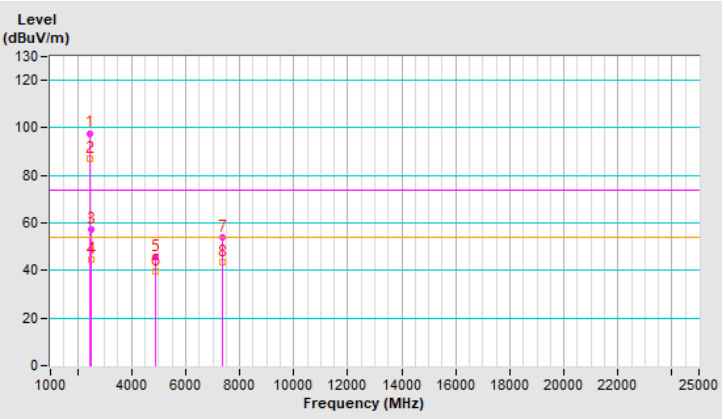


RF Mode	VHT40	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	97.8 PK			1.07 H	260	98.6	-0.8
2	*2452.00	86.8 AV			1.07 H	260	87.6	-0.8
3	2483.50	57.5 PK	74.0	-16.5	1.07 H	260	58.4	-0.9
4	2483.50	44.5 AV	54.0	-9.5	1.07 H	260	45.4	-0.9
5	4904.00	45.8 PK	74.0	-28.2	1.07 H	69	42.1	3.7
6	4904.00	39.6 AV	54.0	-14.4	1.07 H	69	35.9	3.7
7	7356.00	53.8 PK	74.0	-20.2	1.35 H	20	43.6	10.2
8	7356.00	43.7 AV	54.0	-10.3	1.35 H	20	33.5	10.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

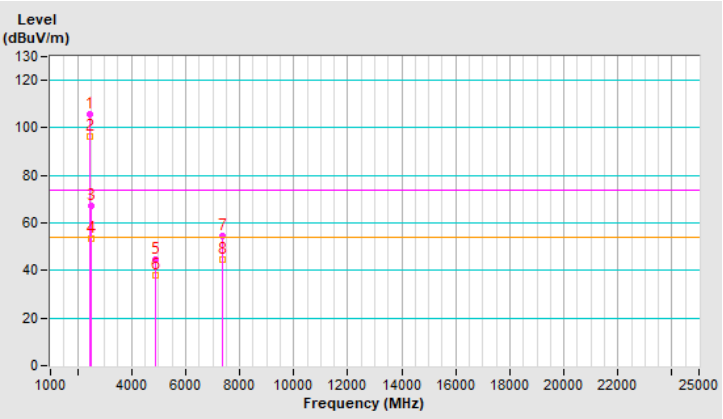


RF Mode	VHT40	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	105.8 PK			1.13 V	90	106.6	-0.8
2	*2452.00	96.2 AV			1.13 V	90	97.0	-0.8
3	2483.50	67.3 PK	74.0	-6.7	1.13 V	90	68.2	-0.9
4	2483.50	53.4 AV	54.0	-0.6	1.13 V	90	54.3	-0.9
5	4904.00	44.4 PK	74.0	-29.6	2.97 V	44	40.7	3.7
6	4904.00	38.0 AV	54.0	-16.0	2.97 V	44	34.3	3.7
7	7356.00	54.4 PK	74.0	-19.6	2.46 V	198	44.2	10.2
8	7356.00	44.4 AV	54.0	-9.6	2.46 V	198	34.2	10.2

Remarks:

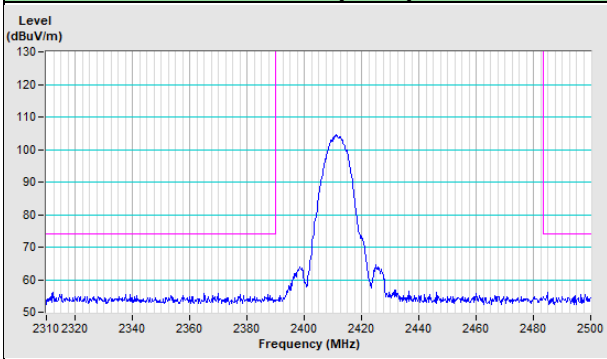
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



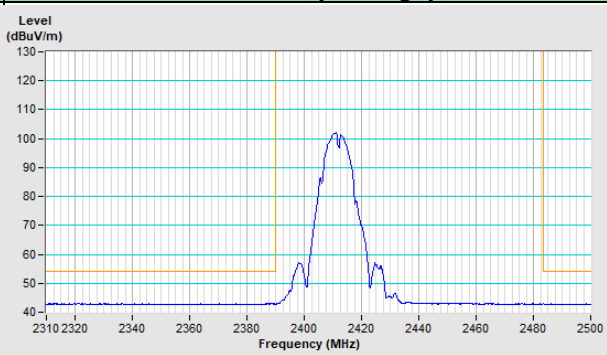
Plot of Band Edge Mode A

802.11b Channel 1

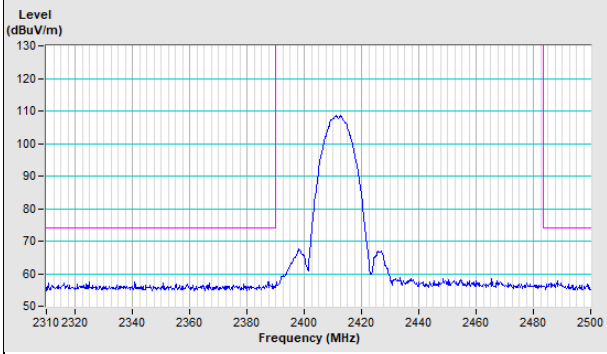
Horizontal (Peak)



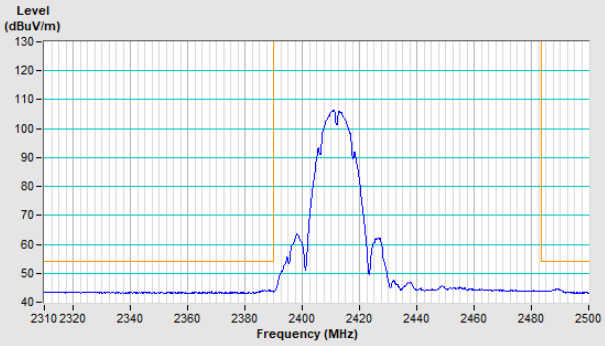
Horizontal (Average)



Vertical (Peak)

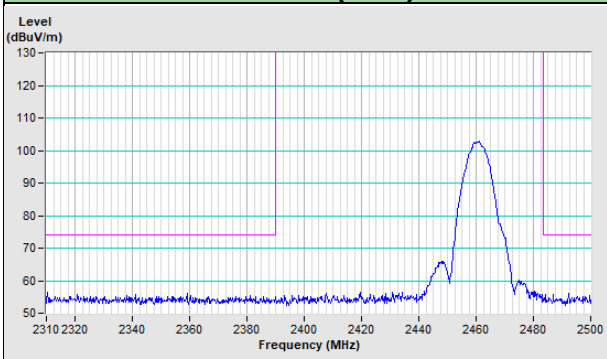


Vertical (Average)

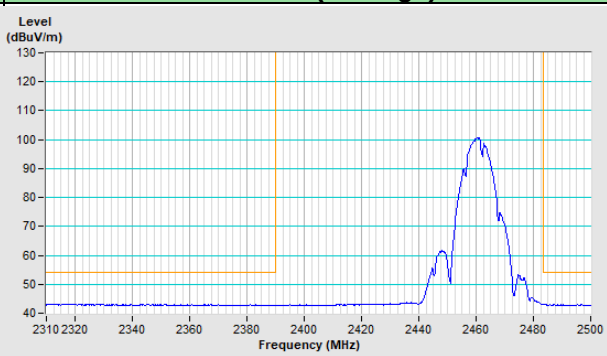


802.11b Channel 11

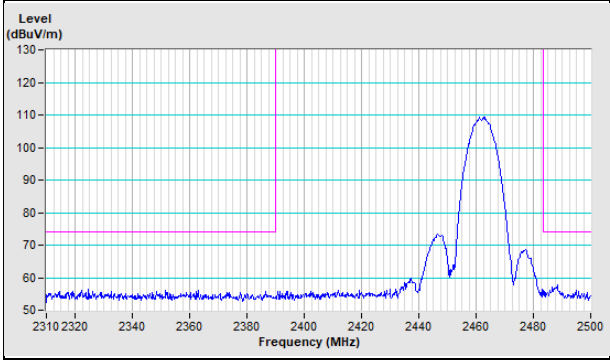
Horizontal (Peak)



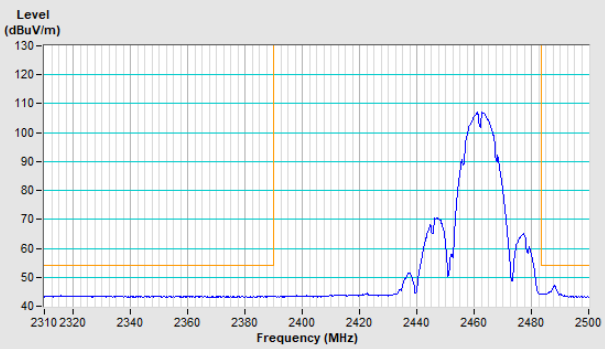
Horizontal (Average)



Vertical (Peak)

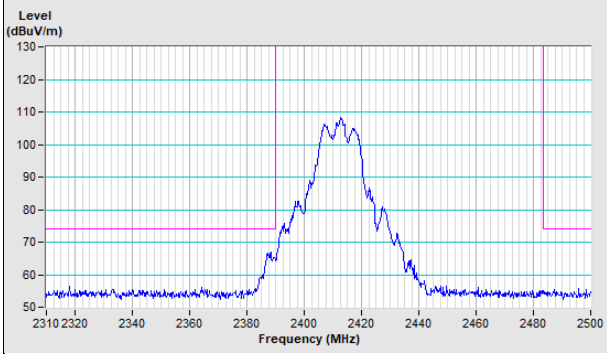


Vertical (Average)

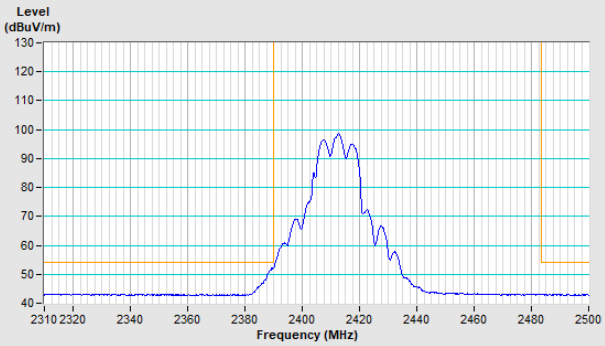


802.11g Channel 1

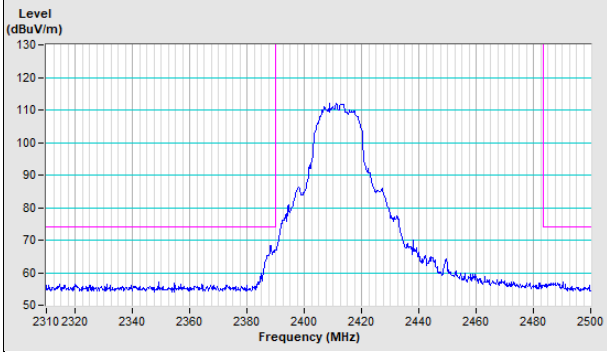
Horizontal (Peak)



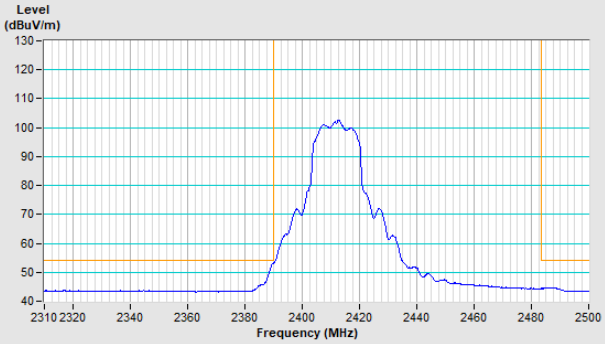
Horizontal (Average)



Vertical (Peak)

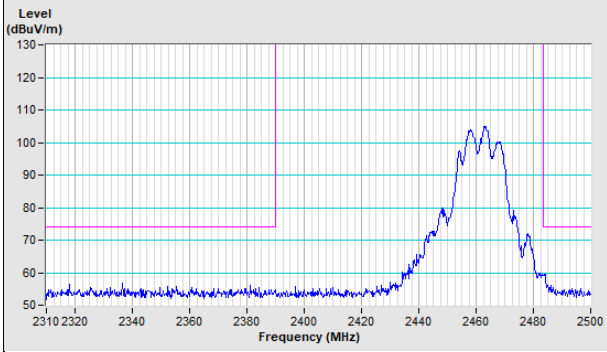


Vertical (Average)

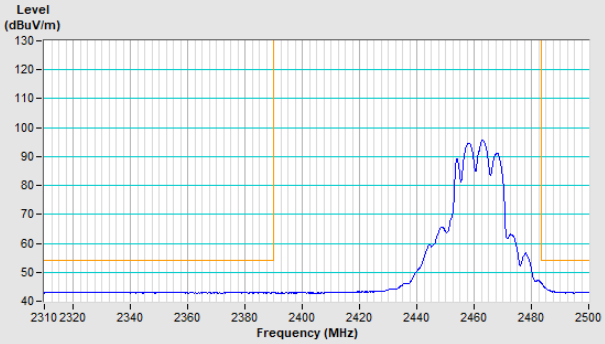


802.11g Channel 11

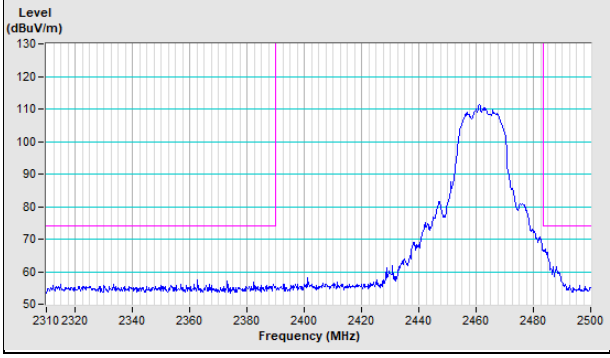
Horizontal (Peak)



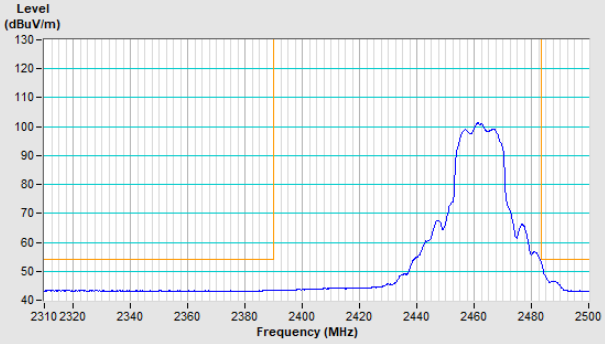
Horizontal (Average)



Vertical (Peak)

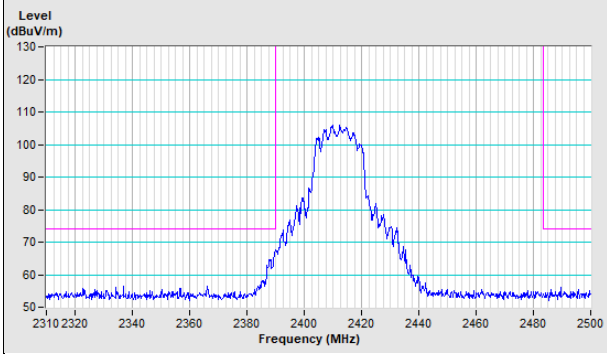


Vertical (Average)

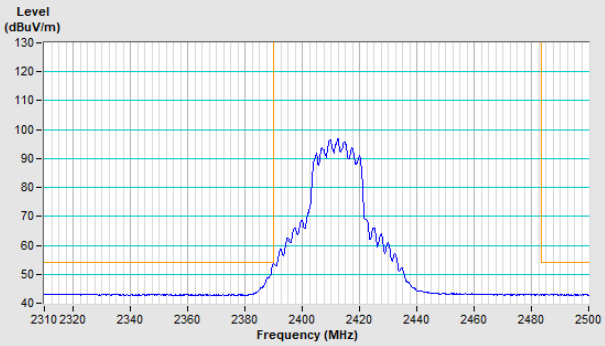


VHT20 Channel 1

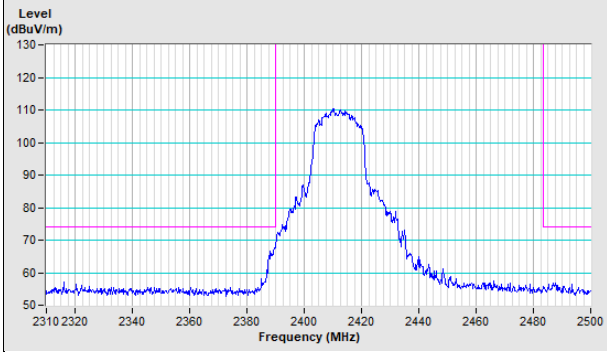
Horizontal (Peak)



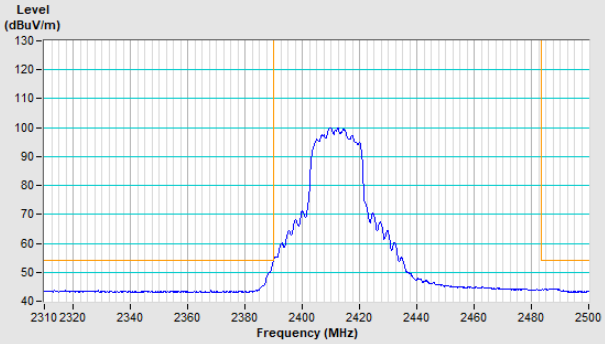
Horizontal (Average)



Vertical (Peak)

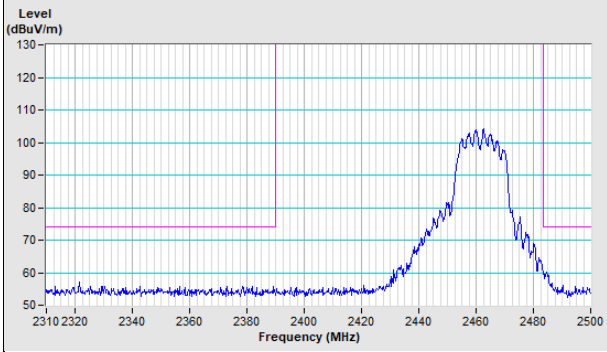


Vertical (Average)

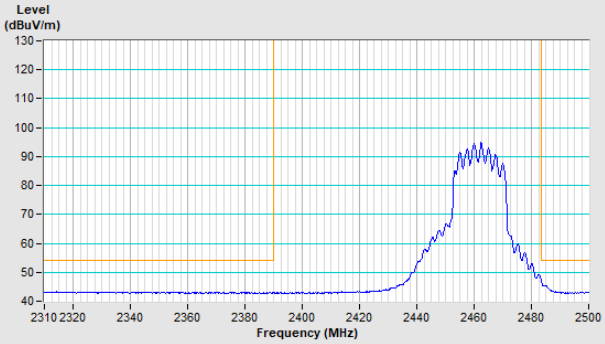


VHT20 Channel 11

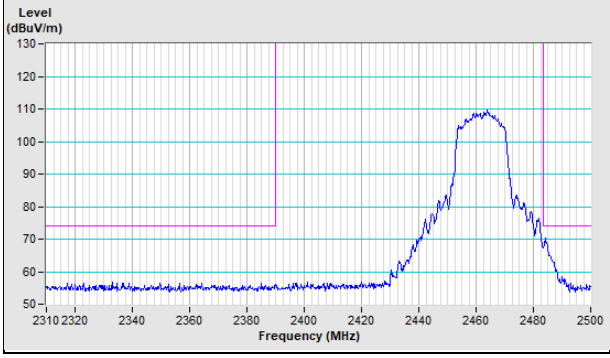
Horizontal (Peak)



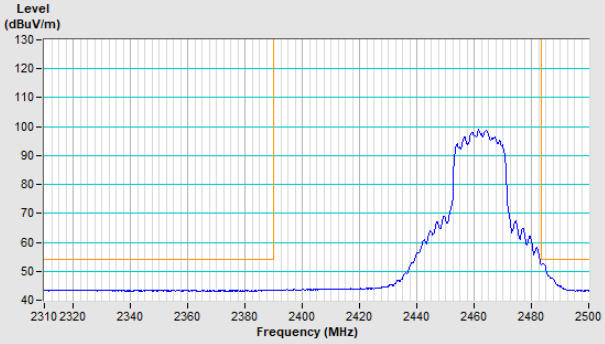
Horizontal (Average)



Vertical (Peak)

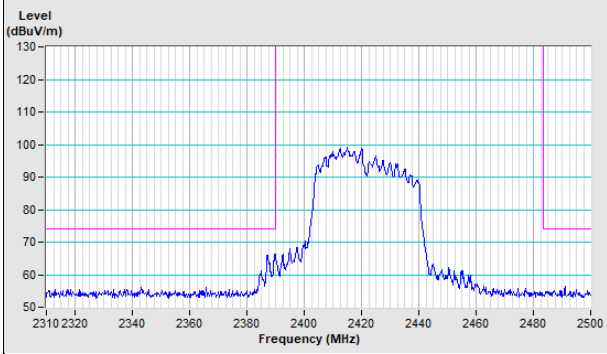


Vertical (Average)

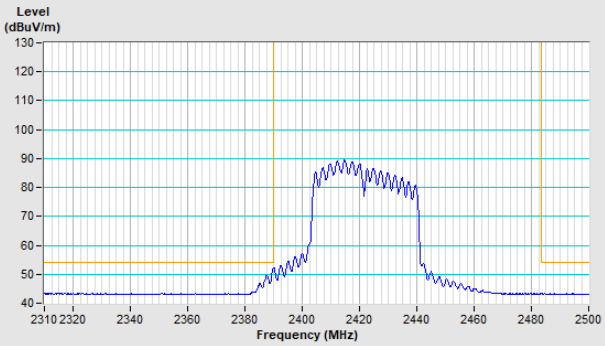


VHT40 Channel 3

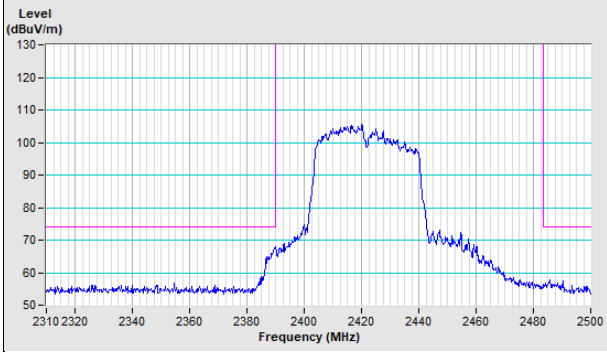
Horizontal (Peak)



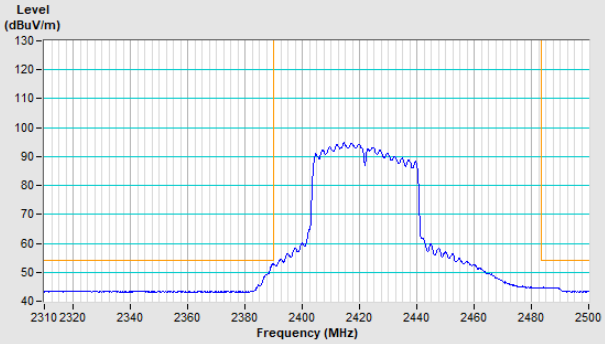
Horizontal (Average)



Vertical (Peak)

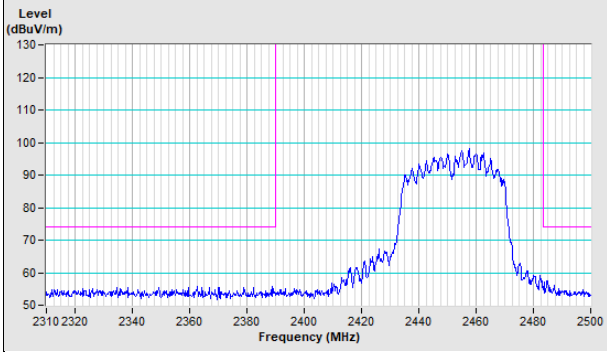


Vertical (Average)

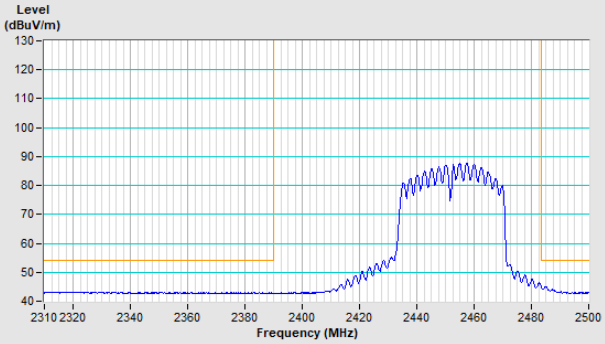


VHT40 Channel 9

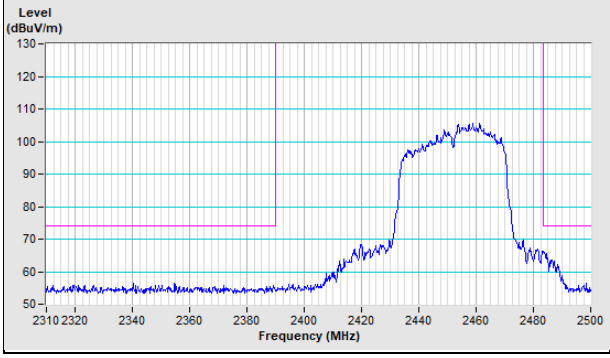
Horizontal (Peak)



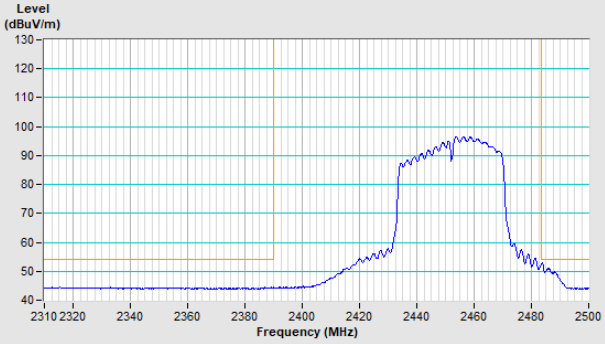
Horizontal (Average)



Vertical (Peak)



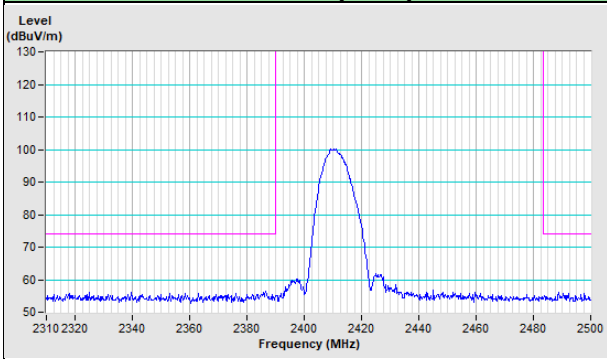
Vertical (Average)



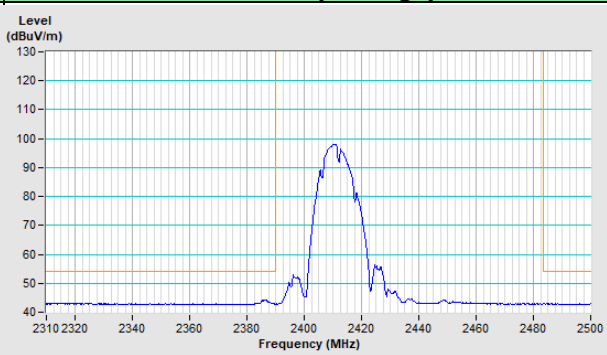
Plot of Band Edge Mode B

802.11b Channel 1

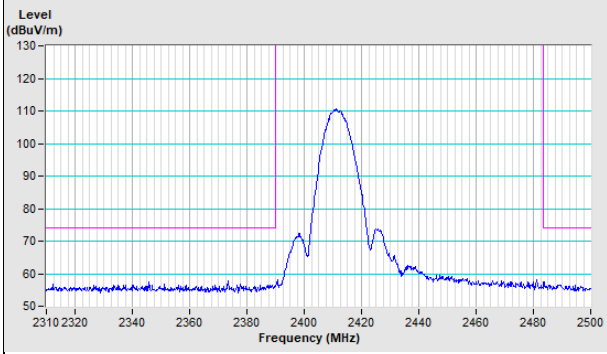
Horizontal (Peak)



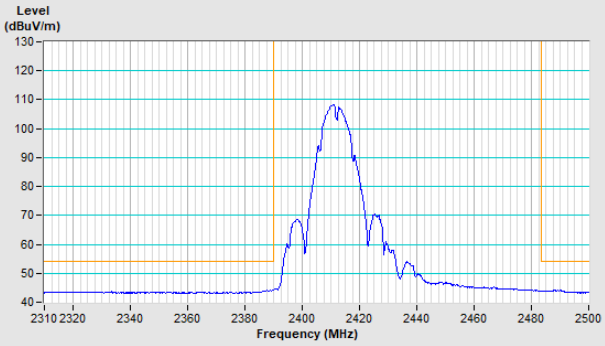
Horizontal (Average)



Vertical (Peak)

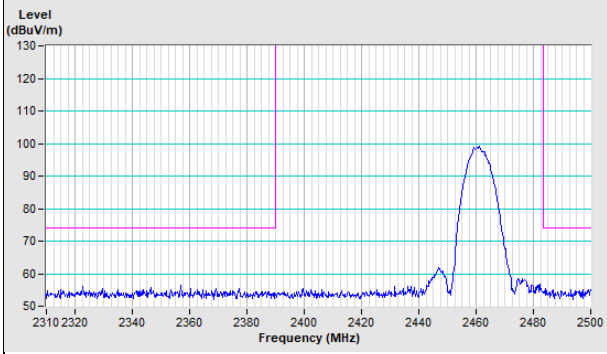


Vertical (Average)

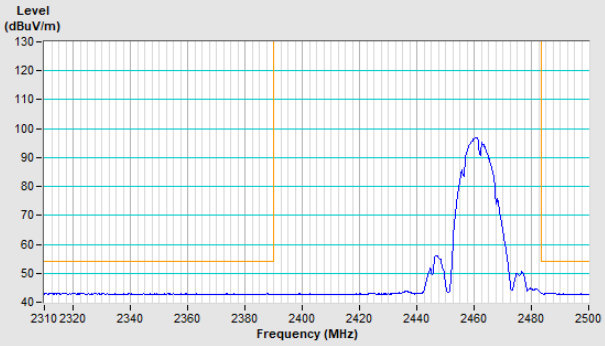


802.11b Channel 11

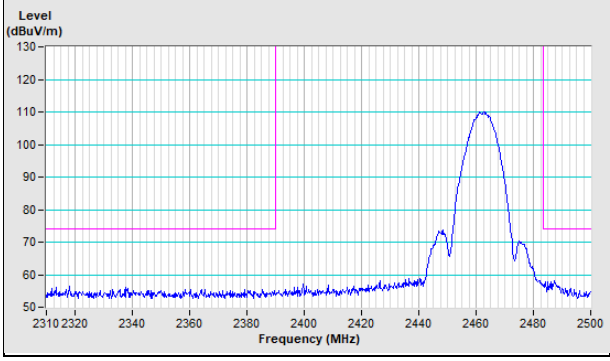
Horizontal (Peak)



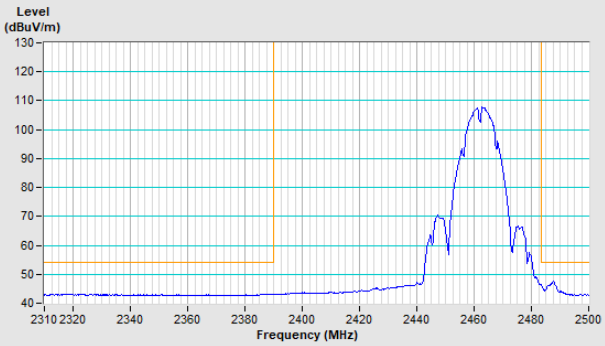
Horizontal (Average)



Vertical (Peak)

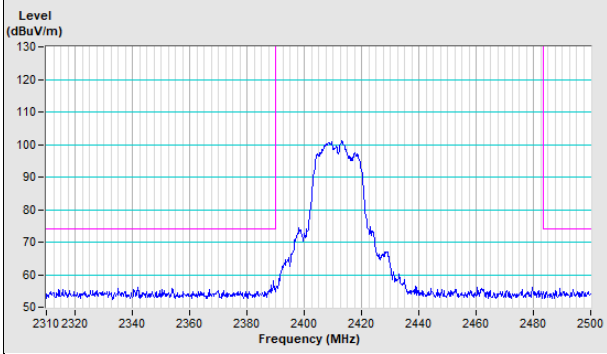


Vertical (Average)

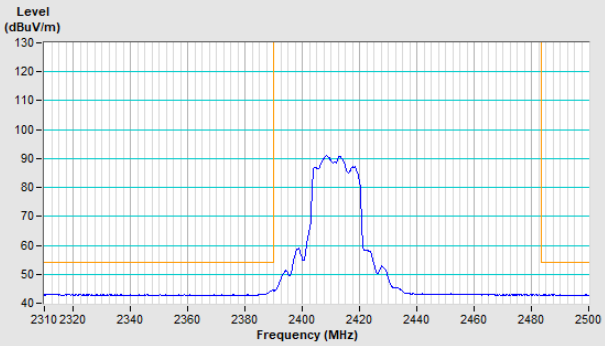


802.11g Channel 1

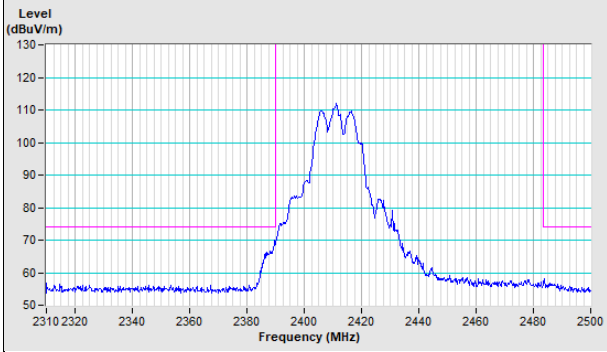
Horizontal (Peak)



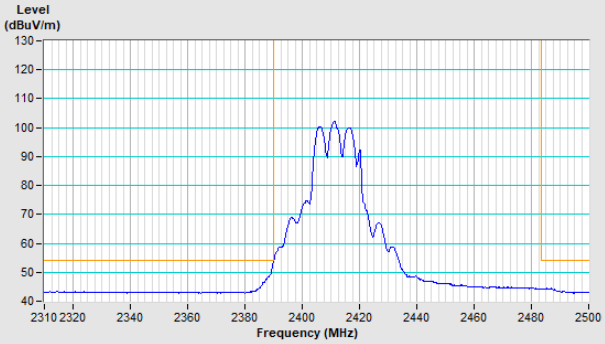
Horizontal (Average)



Vertical (Peak)

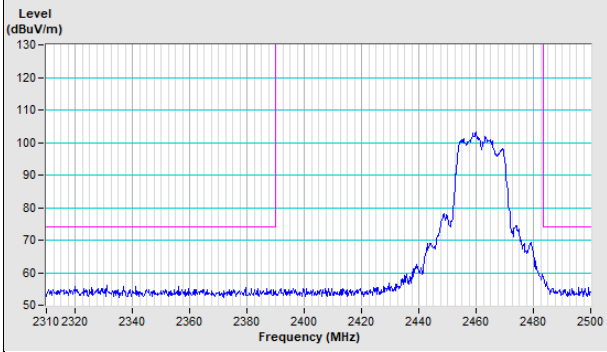


Vertical (Average)

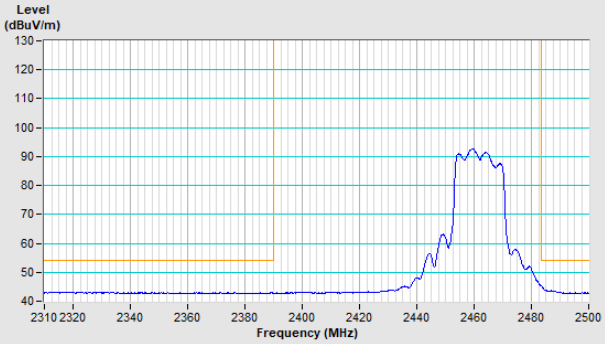


802.11g Channel 11

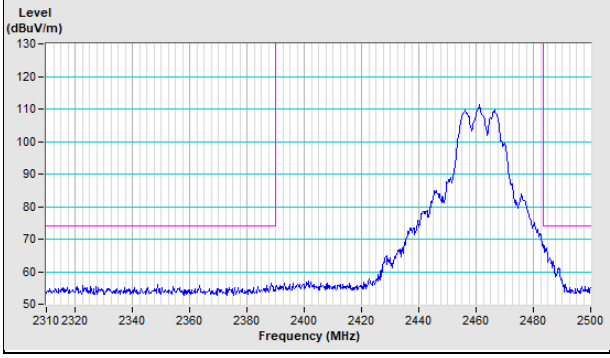
Horizontal (Peak)



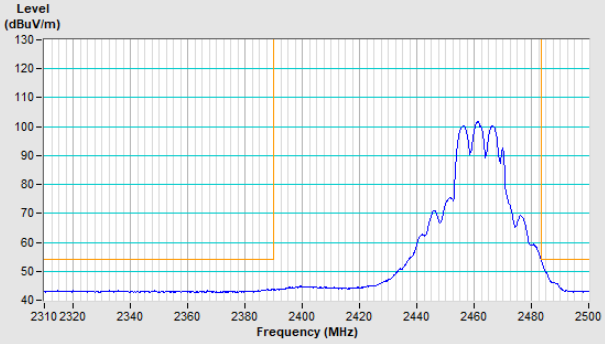
Horizontal (Average)



Vertical (Peak)

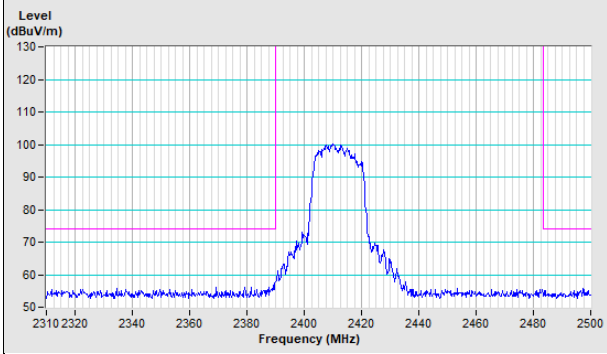


Vertical (Average)

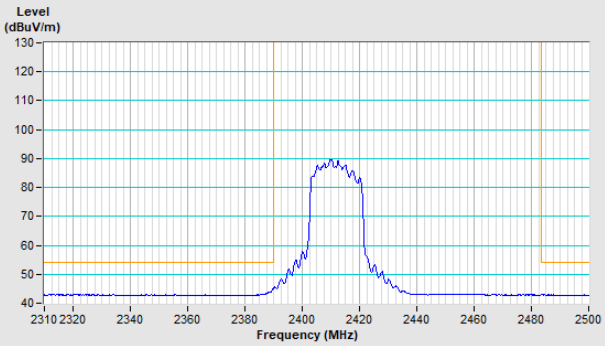


VHT20 Channel 1

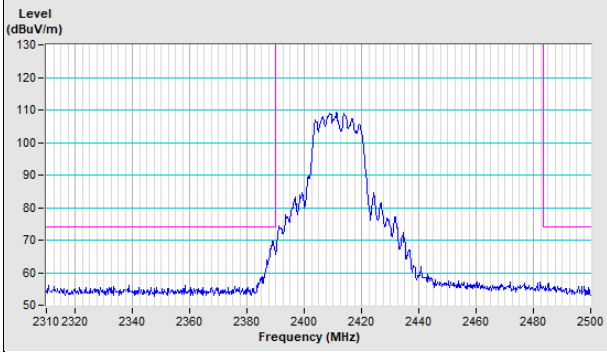
Horizontal (Peak)



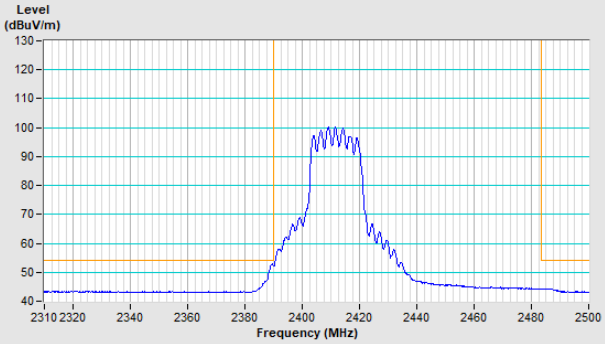
Horizontal (Average)



Vertical (Peak)

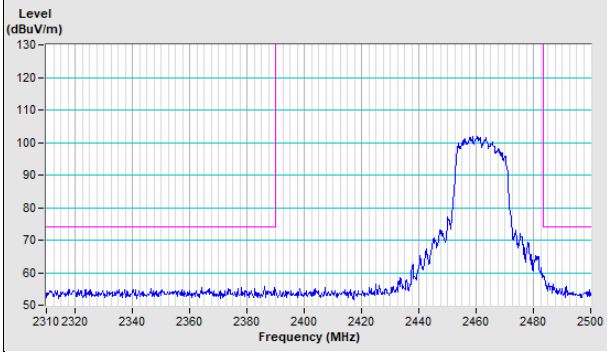


Vertical (Average)

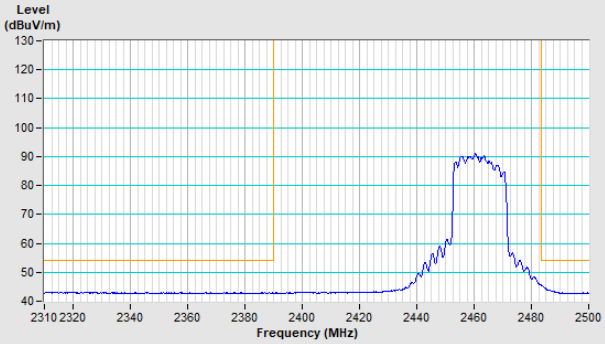


VHT20 Channel 11

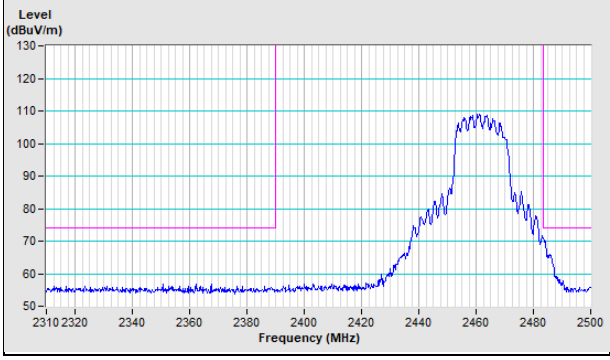
Horizontal (Peak)



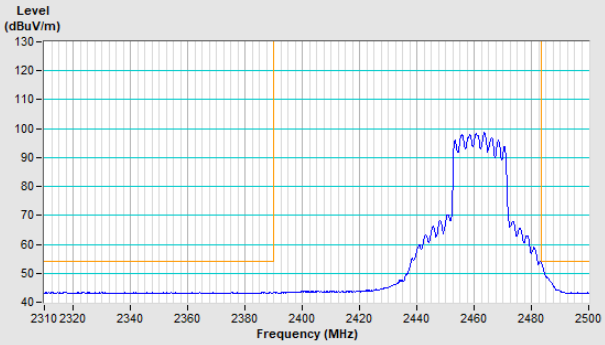
Horizontal (Average)



Vertical (Peak)

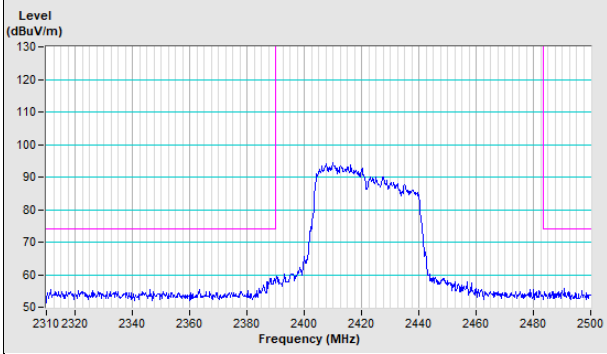


Vertical (Average)

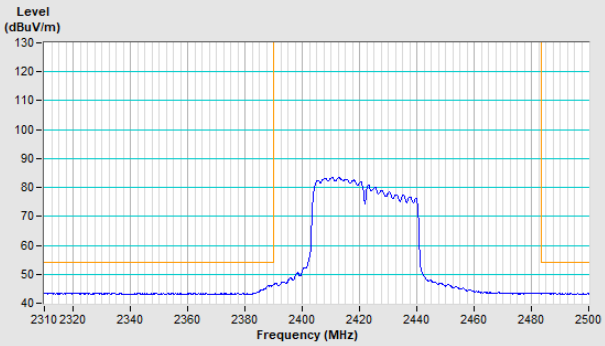


VHT40 Channel 3

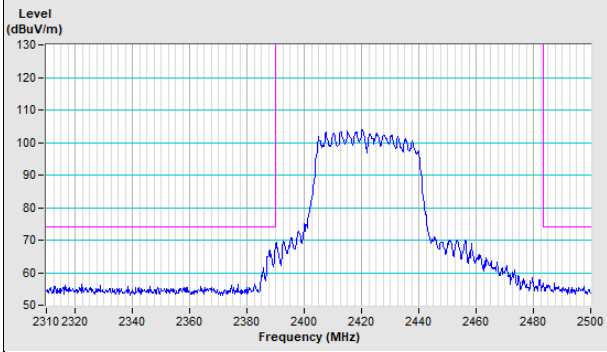
Horizontal (Peak)



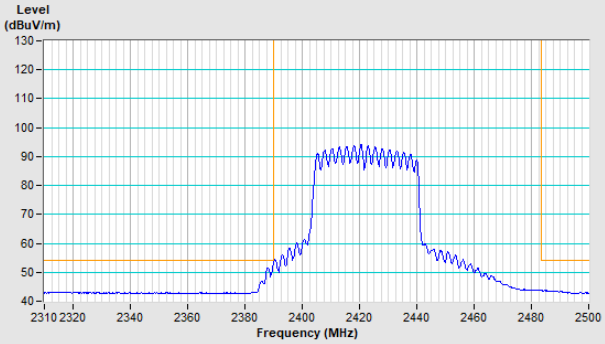
Horizontal (Average)



Vertical (Peak)

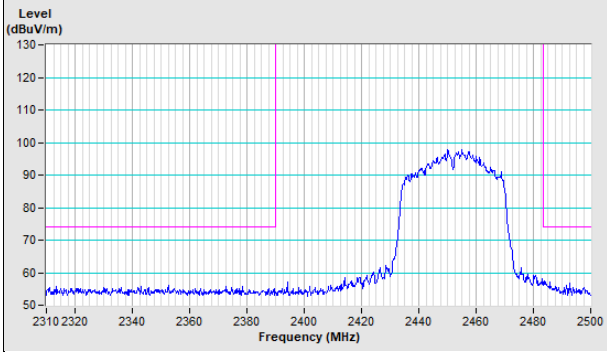


Vertical (Average)

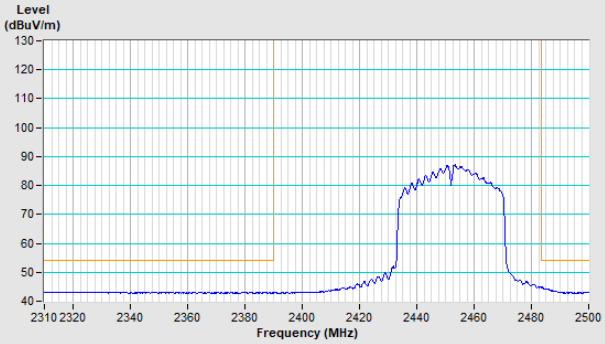


VHT40 Channel 9

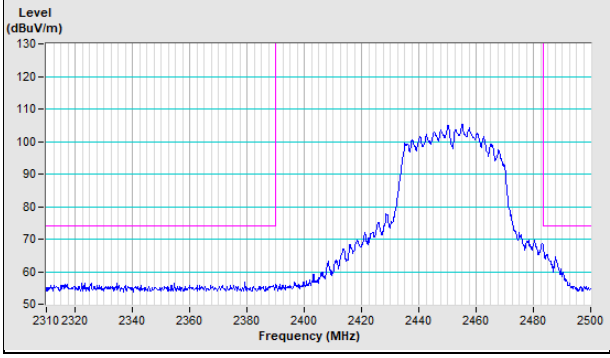
Horizontal (Peak)



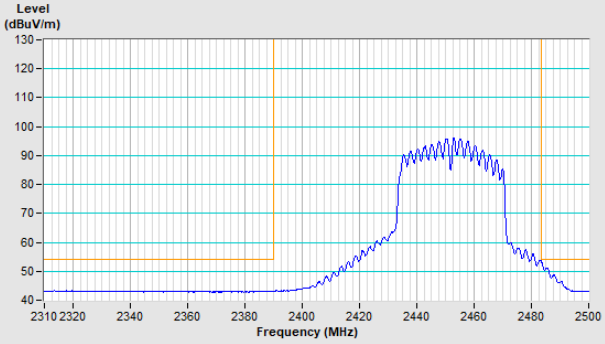
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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