

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBEIH-WTW-P25080111
FCC ID: P27-SCP5173P
Product: Moso Canopy 5GOD2
Brand: Sercomm / Moso networks
Model No.: SCP5173P
Received Date: 2025/8/7
Test Date: 2025/9/4 ~ 2025/9/18
Issued Date: 2025/11/21

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FCC Registration / 788550 / TW0003 for Test Location(1)
Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:

Jeremy Lin

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, Date:

2025/11/21

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P25080111	Original release.	2025/11/21

1 Certificate

Product: Moso Canopy 5GOD2

Brand: Sercomm / Moso networks

Test Model: SCP5173P

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: 2025/9/4 ~ 2025/9/18

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

Measurement procedure: ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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 -3.44 dB at 0.19000 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.1 dB at 48.43 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is SMA. (The device is professionally installed.)

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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	Moso Canopy 5GOD2
Brand	Sercomm / Moso networks
Test Model	SCP5173P
Status of EUT	Engineering sample
Power Supply Rating	48Vdc from adapter 40 ~ 57Vdc from power supply
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	Up to 200 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20: 13 802.11n (HT40), VHT40: 9
Output Power	50.35 mW (17.02 dBm)

Note:

1. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	WWAN (5G NR)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. 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 Type	Frequency range	Antenna Gain (dBi)	Connector Type
dipole	2.4 GHz ~ 2.4835 GHz	5.76	SMA

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

2. The EUT incorporates a SISO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1Tx	1Rx
802.11g	1Tx	1Rx
802.11n (HT20)	1Tx	1Rx
802.11n (HT40)	1Tx	1Rx
VHT20	1Tx	1Rx
VHT40	1Tx	1Rx

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

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

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. There are two pre-test modes: EUT+Adapter and EUT+DC. Pre-scan these ways and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. Y-axis/ Z-axis Worst Condition: Z-axis 2. EUT+Adapter and EUT+DC Worst Condition: EUT+Adapter

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	MCS0
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	MCS0
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
Power Spectral Density	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
6 dB Bandwidth	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
Conducted Out of Band Emissions	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
AC Power Conducted Emissions	802.11b	6	BPSK	1Mb/s
Unwanted Emissions below 1 GHz	802.11b	1	BPSK	1Mb/s
Unwanted Emissions above 1 GHz	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0

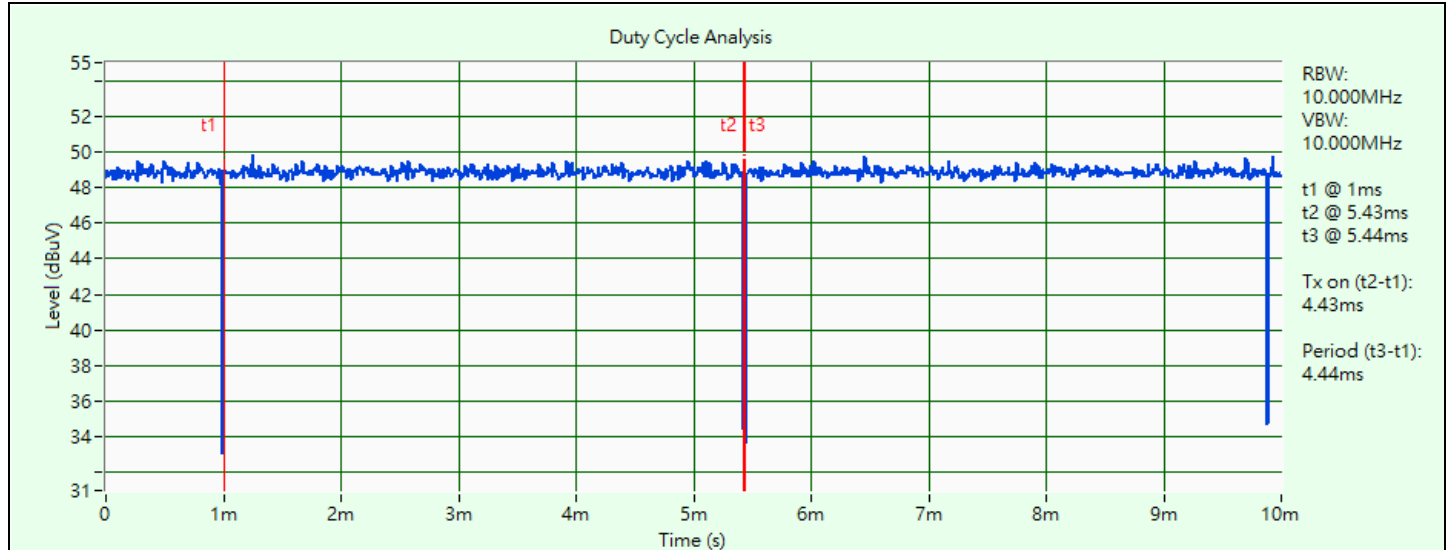
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 4.43 ms / 4.44 ms x 100% = 99.8%

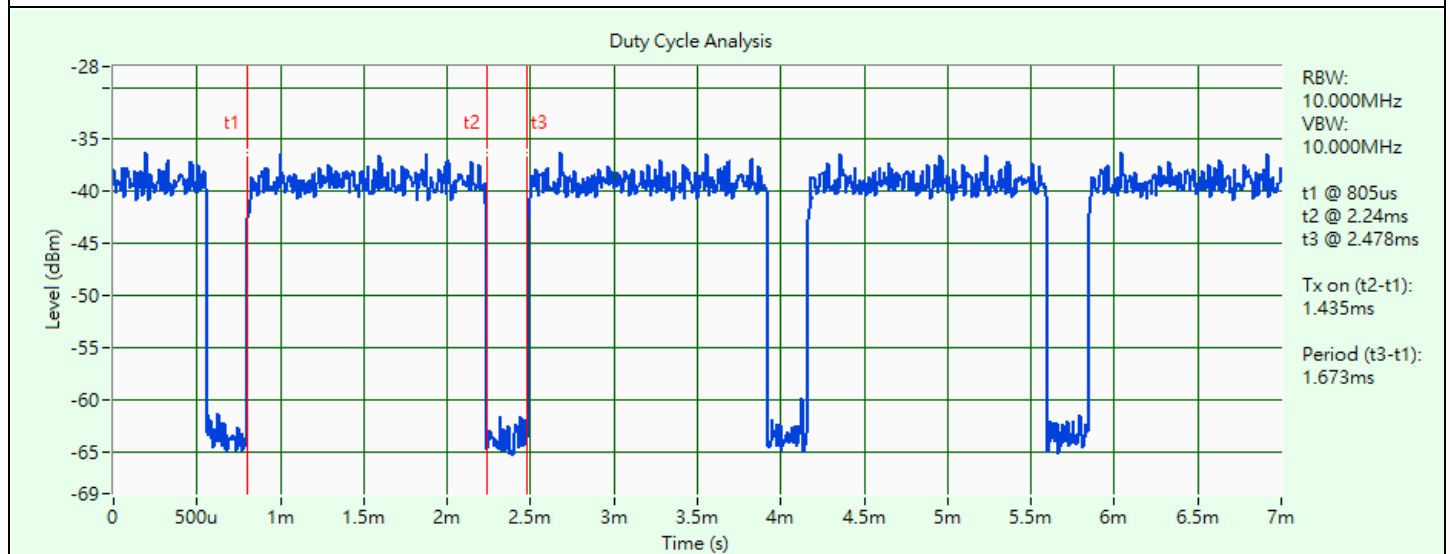
802.11g: Duty cycle = 1.435 ms / 1.673 ms x 100% = 85.8%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.67 \text{ dB}$

VHT20: Duty cycle = 4.32 ms / 4.52 ms x 100% = 95.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

VHT40: Duty cycle = 4.32 ms / 4.52 ms x 100% = 95.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

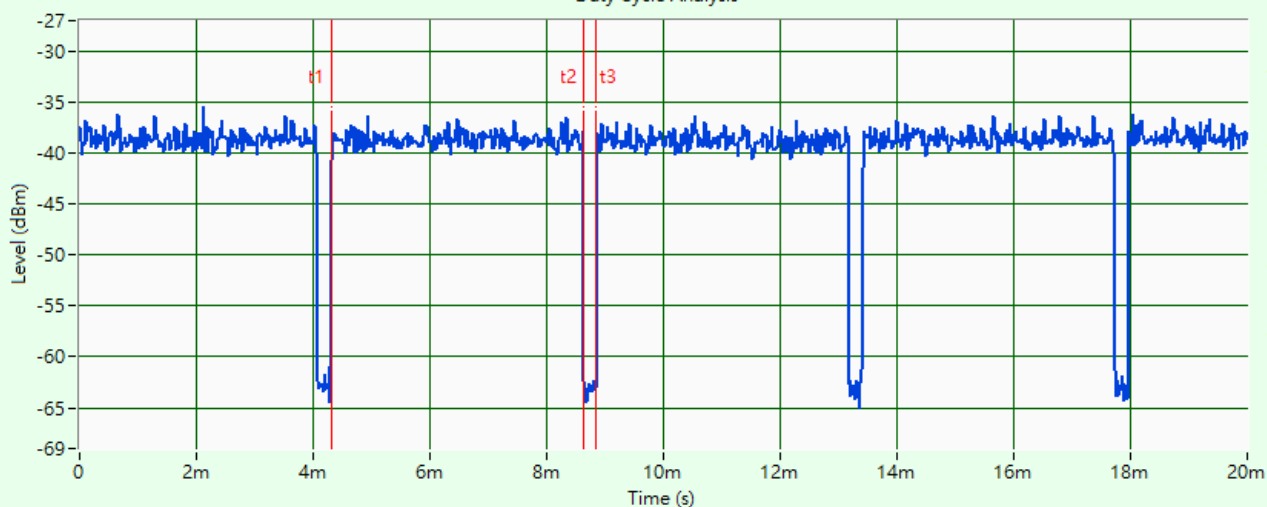


802.11b



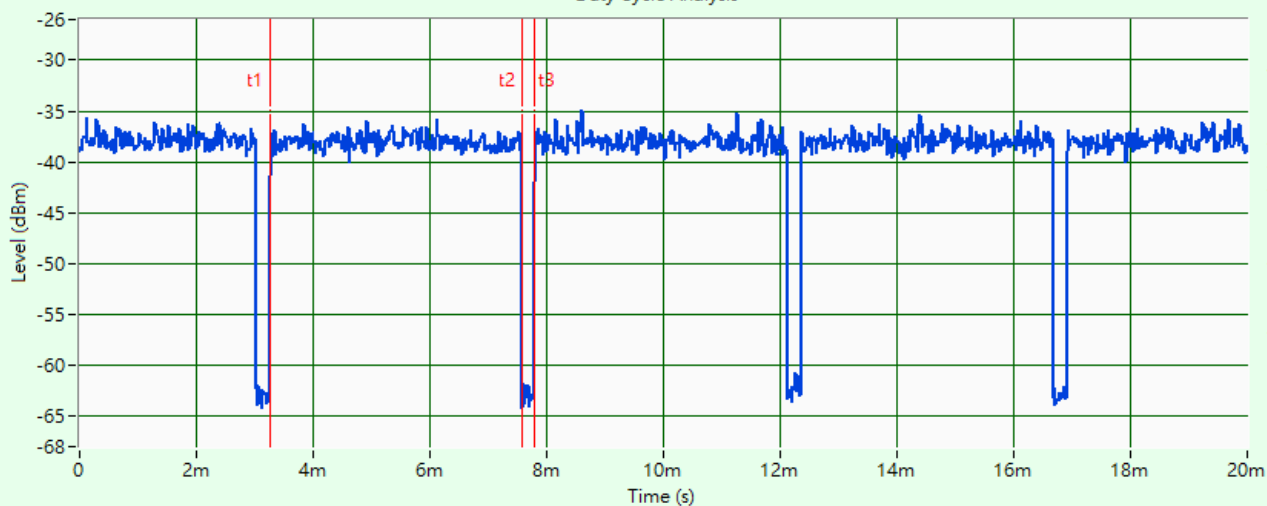
802.11g

Duty Cycle Analysis



VHT20

Duty Cycle Analysis

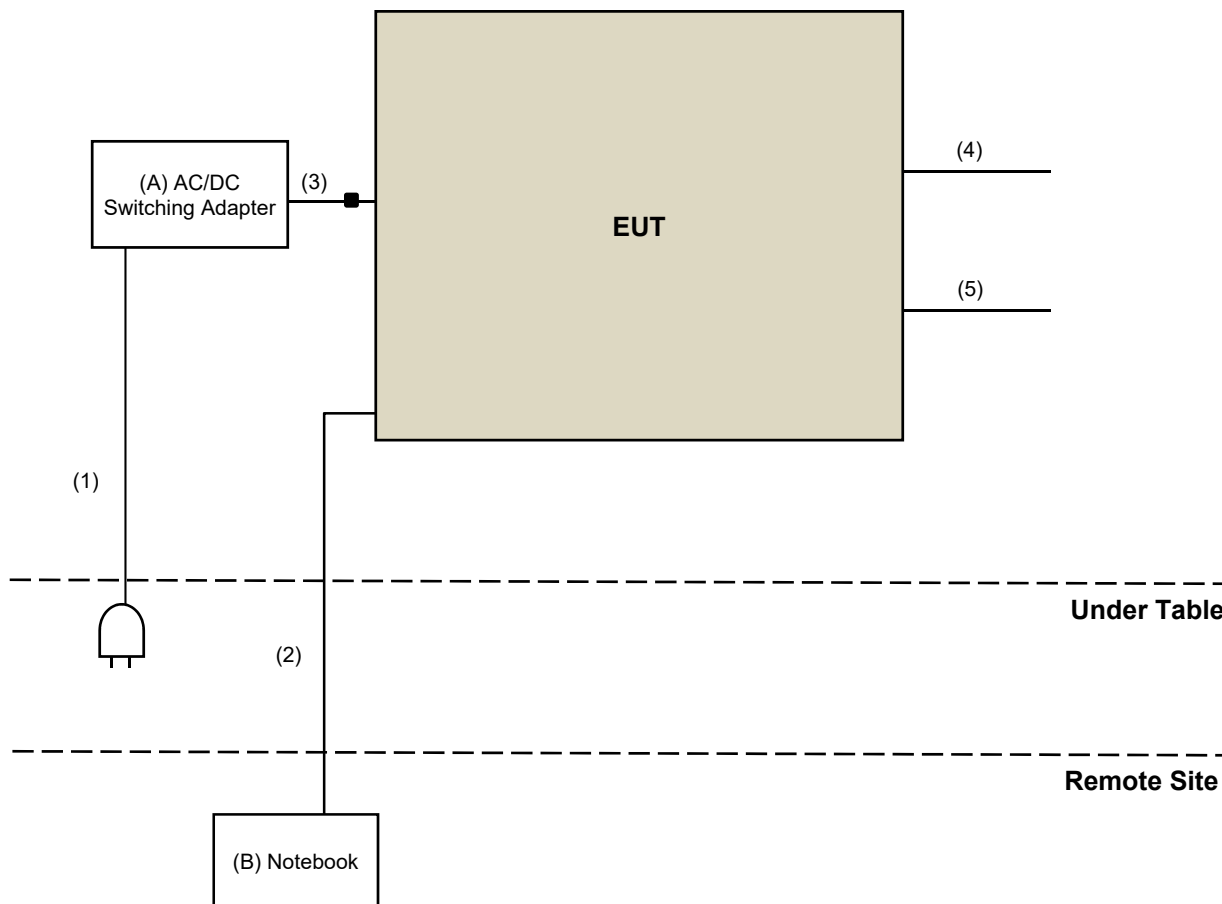


VHT40

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT4 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	AC/DC Switching Adapter	MW MEAN WELL	GST360A48	SC40193279	NA	Supplied by applicant
B	Notebook	DELL	Latitude 3400	9GPDW2	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Power Cable	1	1.5	No	0	Provided by Lab
2	RJ-45 Cable	1	10	Yes	0	Provided by Lab
3	DC Cable	1	1	Yes	1	Supplied by applicant
4	Fiber optic cable	1	1	No	0	Provided by Lab
5	USB typeC Cable	1	0.5	No	0	Supplied by applicant

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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/9/15 ~ 2025/9/18

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/9/15 ~ 2025/9/18

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/8/23	2026/8/22
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2025/8/29	2026/8/28
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2025/8/23	2026/8/22
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/9/17

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC330N	980782	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201235	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201236(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/9/12

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210103A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC118A45SE	980808	2024/12/26	2025/12/25
	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210102	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201231	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201243	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/9/4 ~ 2025/9/10

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)

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 30 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 30 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 30 dB below the highest level of the desired power:

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

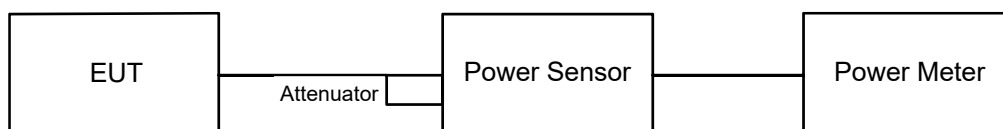
Notes:

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



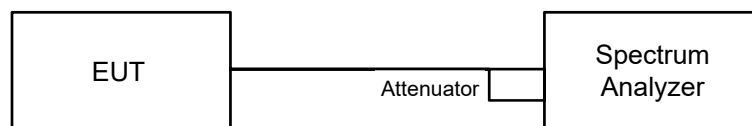
6.1.2 Test Procedure

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



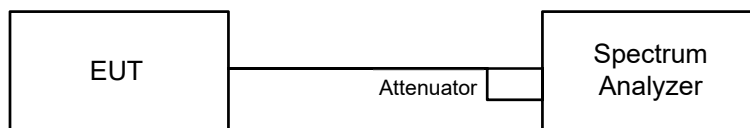
6.2.2 Test Procedure

- Measure the duty cycle (x).
- Set instrument center frequency to DTS channel center frequency.
- Set span to > 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Do not use sweep triggering. Allow sweep to "free run".
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

Note: If Duty cycle < 98%, Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

6.3 6 dB Bandwidth

6.3.1 Test Setup

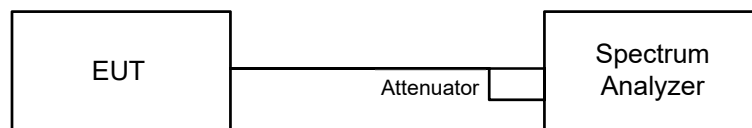


6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

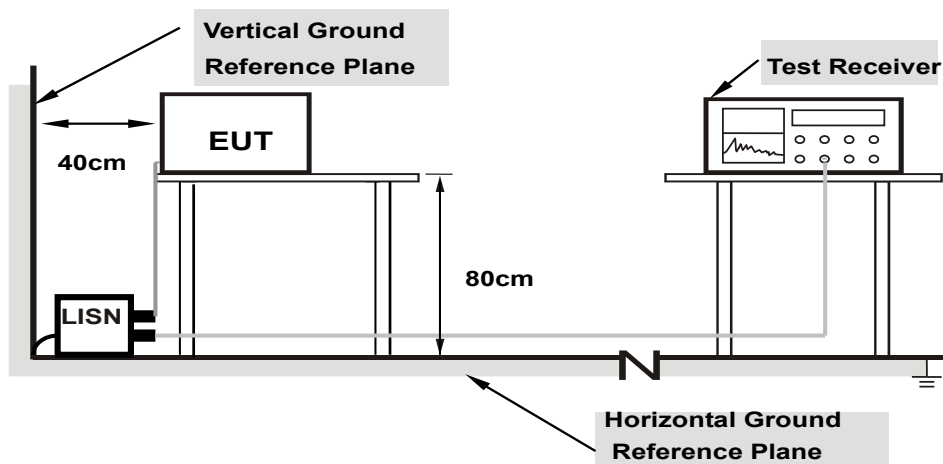
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- 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

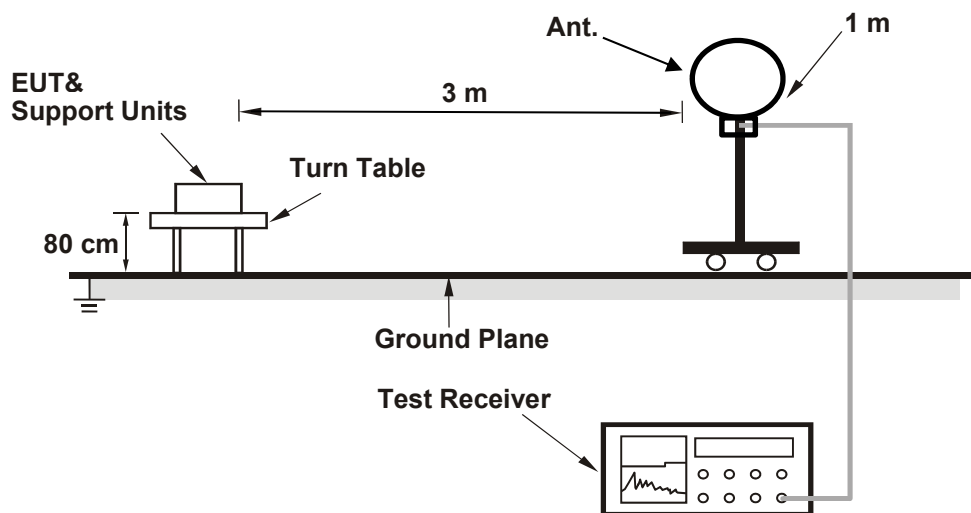
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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.

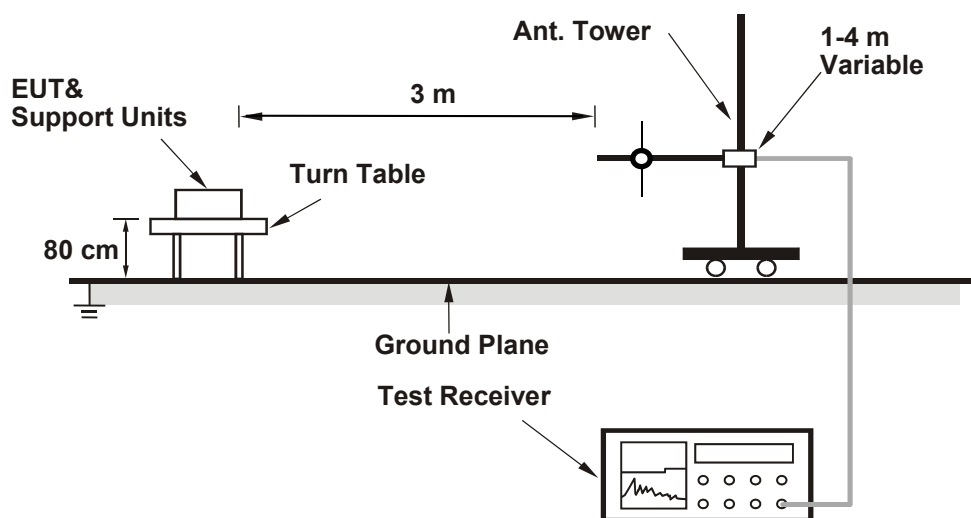
6.6 Unwanted Emissions below 1 GHz

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

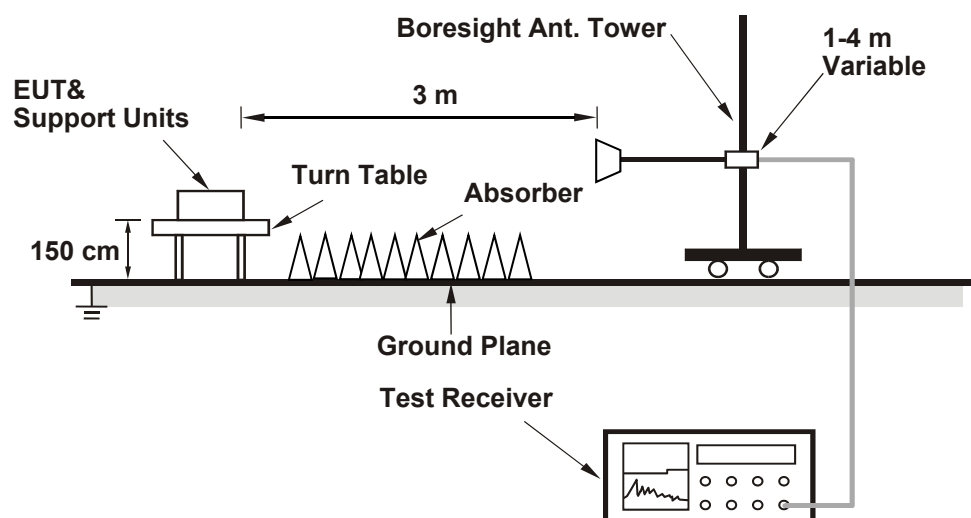
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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

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

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

7 Test Results of Test Item

7.1 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	50.35	17.02	30	Pass
6	2437	39.994	16.02	30	Pass
11	2462	26.424	14.22	30	Pass
12	2467	12.274	10.89	30	Pass
13	2472	5.236	7.19	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	47.206	16.74	30	Pass
6	2437	38.194	15.82	30	Pass
11	2462	20.417	13.10	30	Pass
12	2467	10.641	10.27	30	Pass
13	2472	3.639	5.61	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	45.814	16.61	30	Pass
6	2437	39.084	15.92	30	Pass
11	2462	19.907	12.99	30	Pass
12	2467	8.147	9.11	30	Pass
13	2472	1.439	1.58	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	12.218	10.87	30	Pass
6	2437	46.238	16.65	30	Pass
9	2452	12.078	10.82	30	Pass
10	2457	12.531	10.98	30	Pass
11	2462	12.106	10.83	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	47.534	16.77	30	Pass
6	2437	39.994	16.02	30	Pass
11	2462	20.606	13.14	30	Pass
12	2467	8.531	9.31	30	Pass
13	2472	1.486	1.72	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	12.647	11.02	30	Pass
6	2437	48.306	16.84	30	Pass
9	2452	12.56	10.99	30	Pass
10	2457	12.823	11.08	30	Pass
11	2462	12.531	10.98	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-13.90	8	Pass
6	2437	-14.73	8	Pass
11	2462	-17.50	8	Pass
12	2467	-20.60	8	Pass
13	2472	-24.18	8	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-13.79	0.67	-13.79	-13.12	8	Pass
6	2437	-14.44	0.67	-14.44	-13.77	8	Pass
11	2462	-17.2	0.67	-17.20	-16.53	8	Pass
12	2467	-20.23	0.67	-20.23	-19.56	8	Pass
13	2472	-26.01	0.67	-26.01	-25.34	8	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-16.48	0.20	-16.48	-16.28	8	Pass
6	2437	-17.31	0.20	-17.31	-17.11	8	Pass
11	2462	-19.71	0.20	-19.71	-19.51	8	Pass
12	2467	-23.86	0.20	-23.86	-23.66	8	Pass
13	2472	-31.54	0.20	-31.54	-31.34	8	Pass

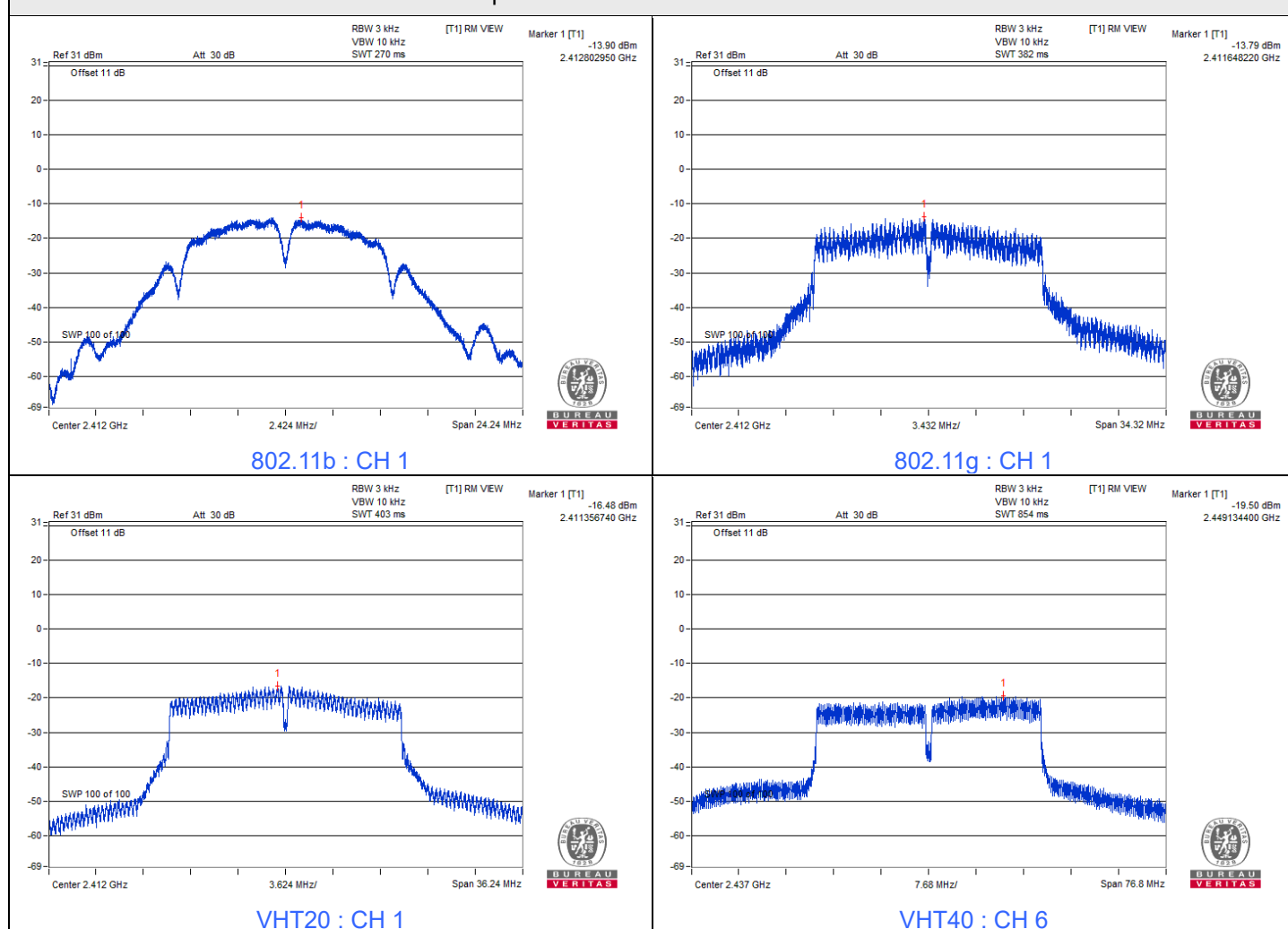
Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-25.72	0.20	-25.72	-25.52	8	Pass
6	2437	-19.5	0.20	-19.50	-19.30	8	Pass
9	2452	-25.25	0.20	-25.25	-25.05	8	Pass
10	2457	-24.86	0.20	-24.86	-24.66	8	Pass
11	2462	-25.54	0.20	-25.54	-25.34	8	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	9.21	0.5	Pass
6	2437	9.21	0.5	Pass
11	2462	8.82	0.5	Pass
12	2467	8.84	0.5	Pass
13	2472	9.28	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.39	0.5	Pass
6	2437	16.49	0.5	Pass
11	2462	16.34	0.5	Pass
12	2467	16.57	0.5	Pass
13	2472	16.63	0.5	Pass

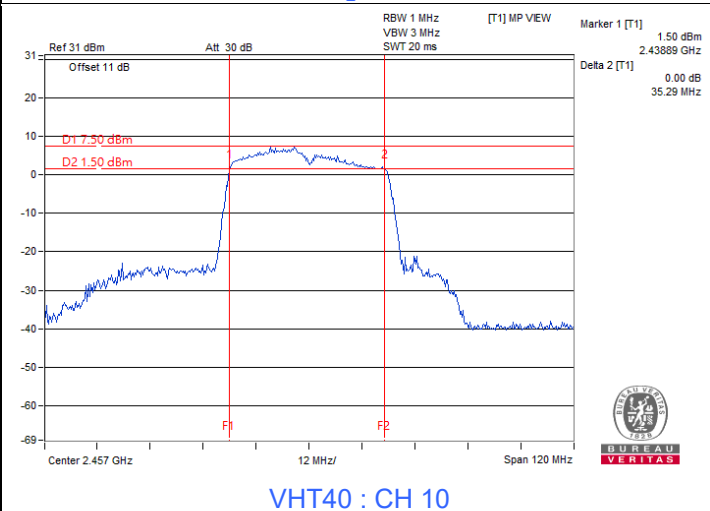
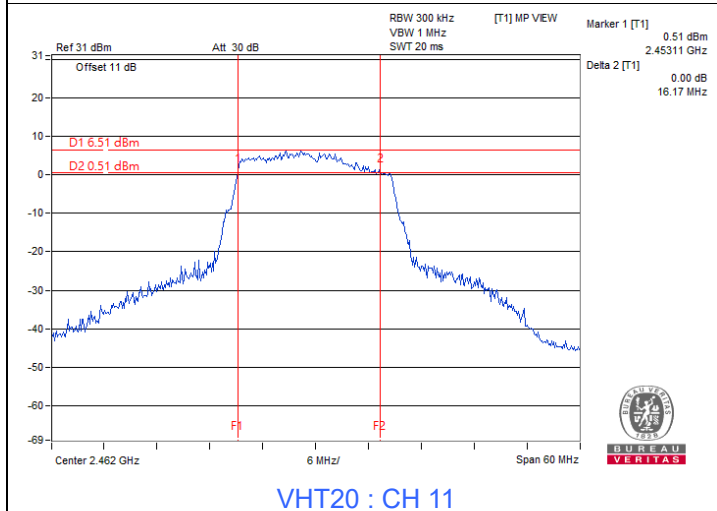
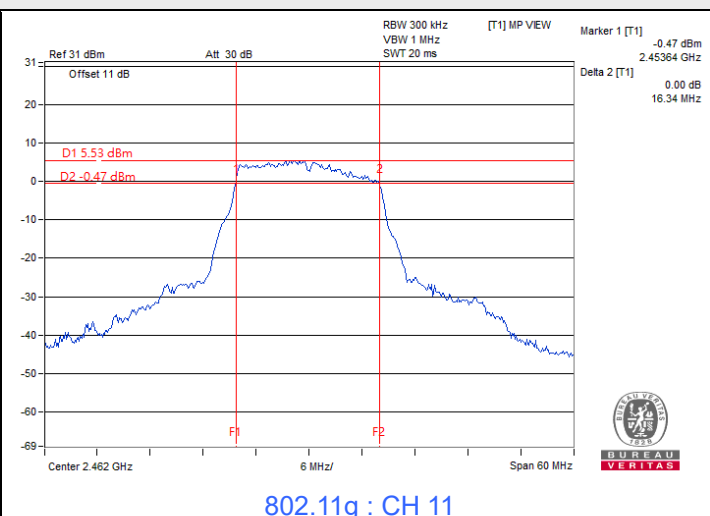
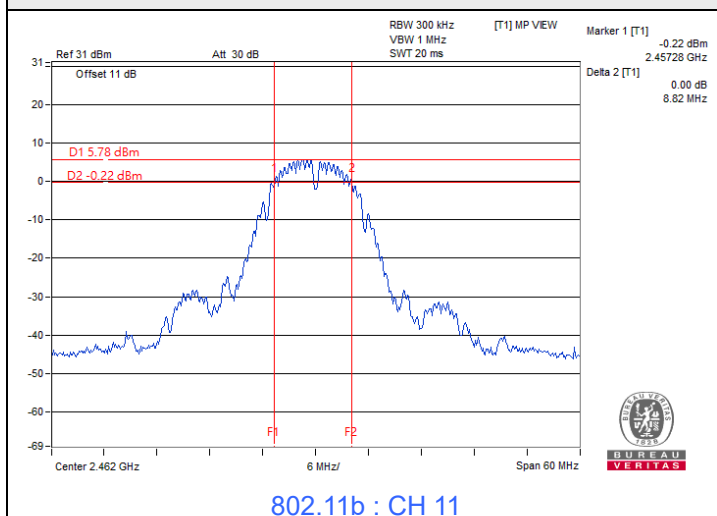
VHT20

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.34	0.5	Pass
6	2437	17.61	0.5	Pass
11	2462	16.17	0.5	Pass
12	2467	17.73	0.5	Pass
13	2472	17.81	0.5	Pass

VHT40

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	36.83	0.5	Pass
6	2437	36.87	0.5	Pass
9	2452	35.66	0.5	Pass
10	2457	35.29	0.5	Pass
11	2462	36.2	0.5	Pass

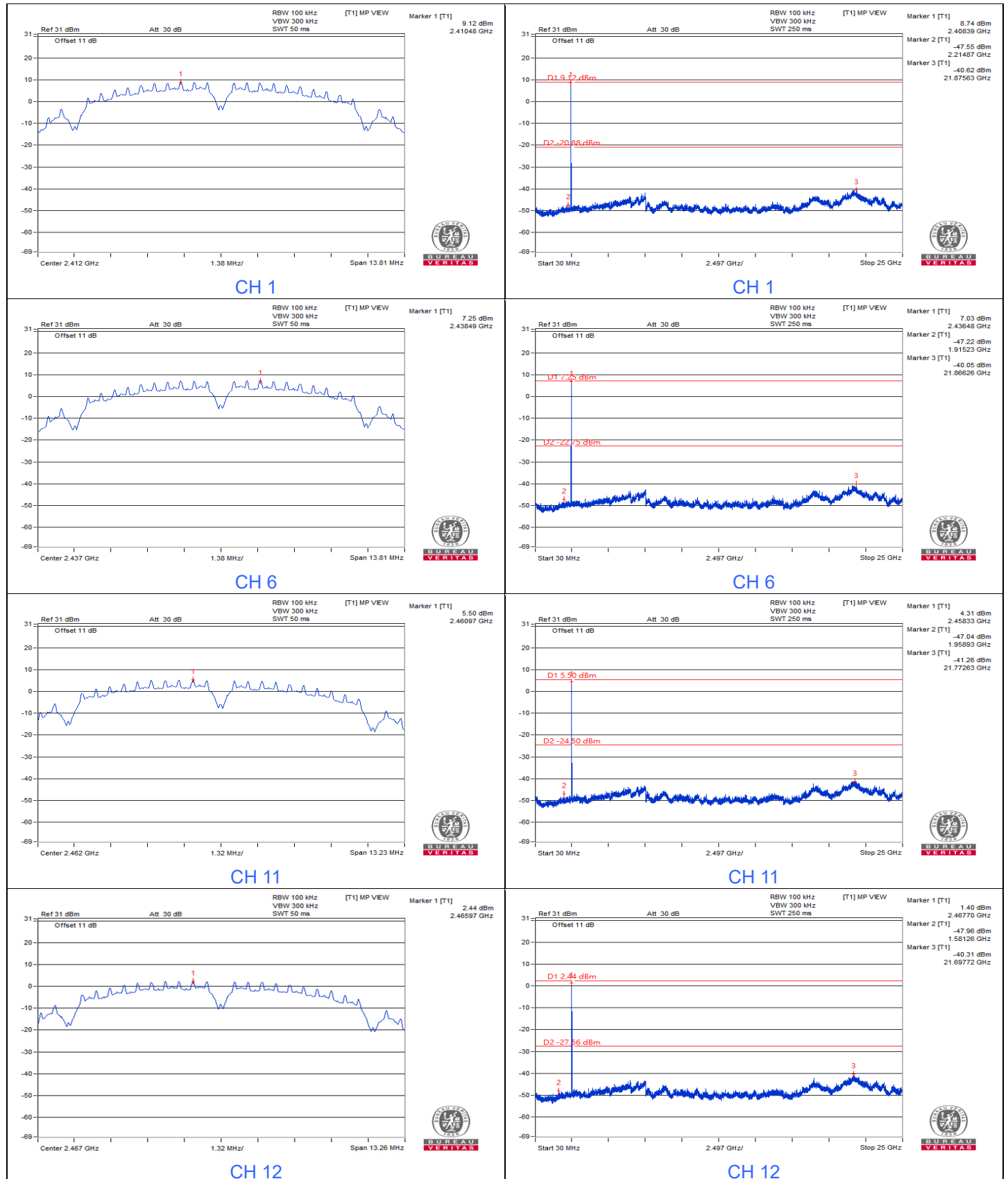
Spectrum Plot of Minimum Value

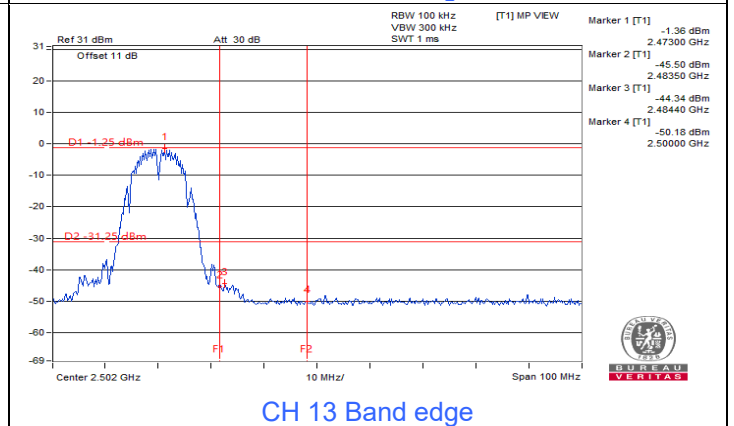
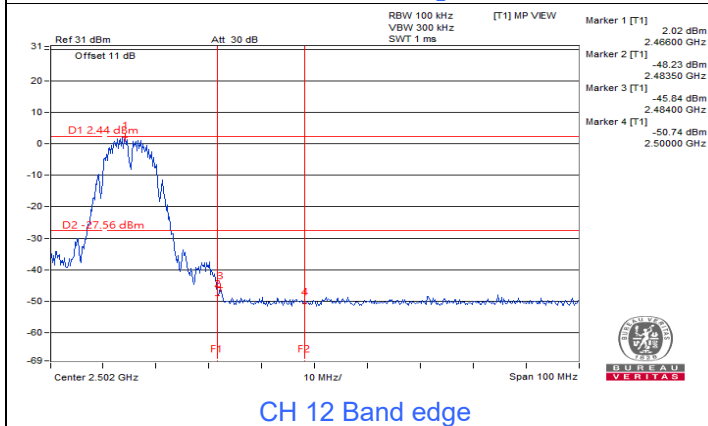
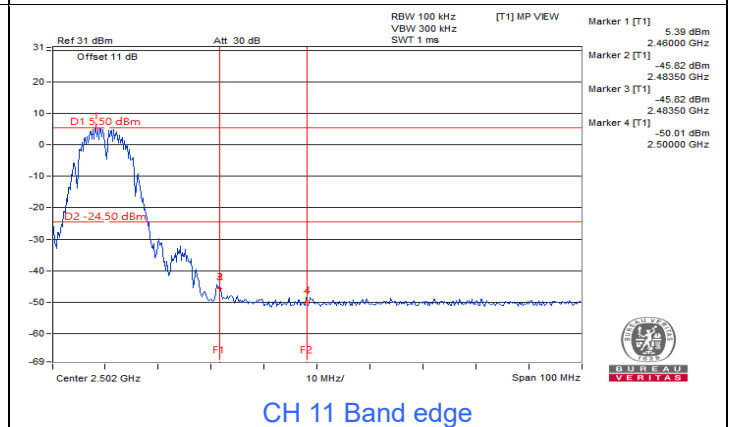
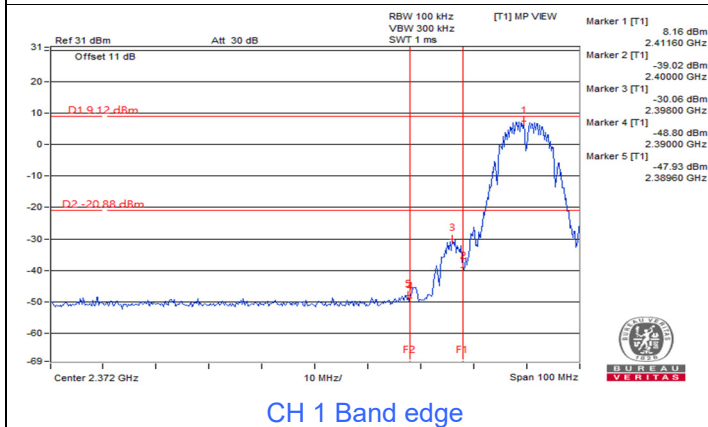
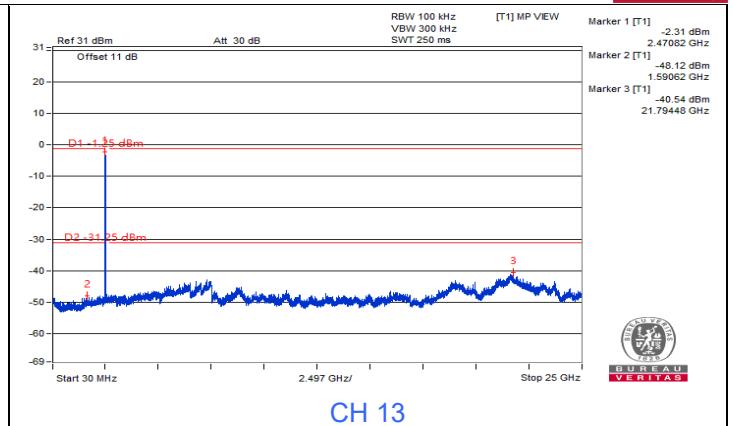
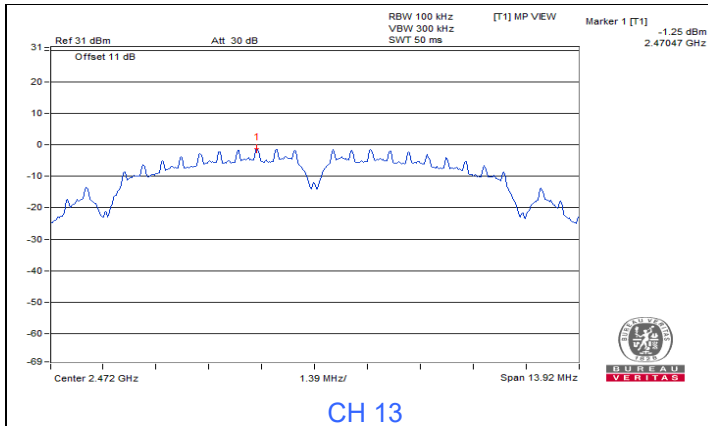


7.4 Conducted Out of Band Emissions

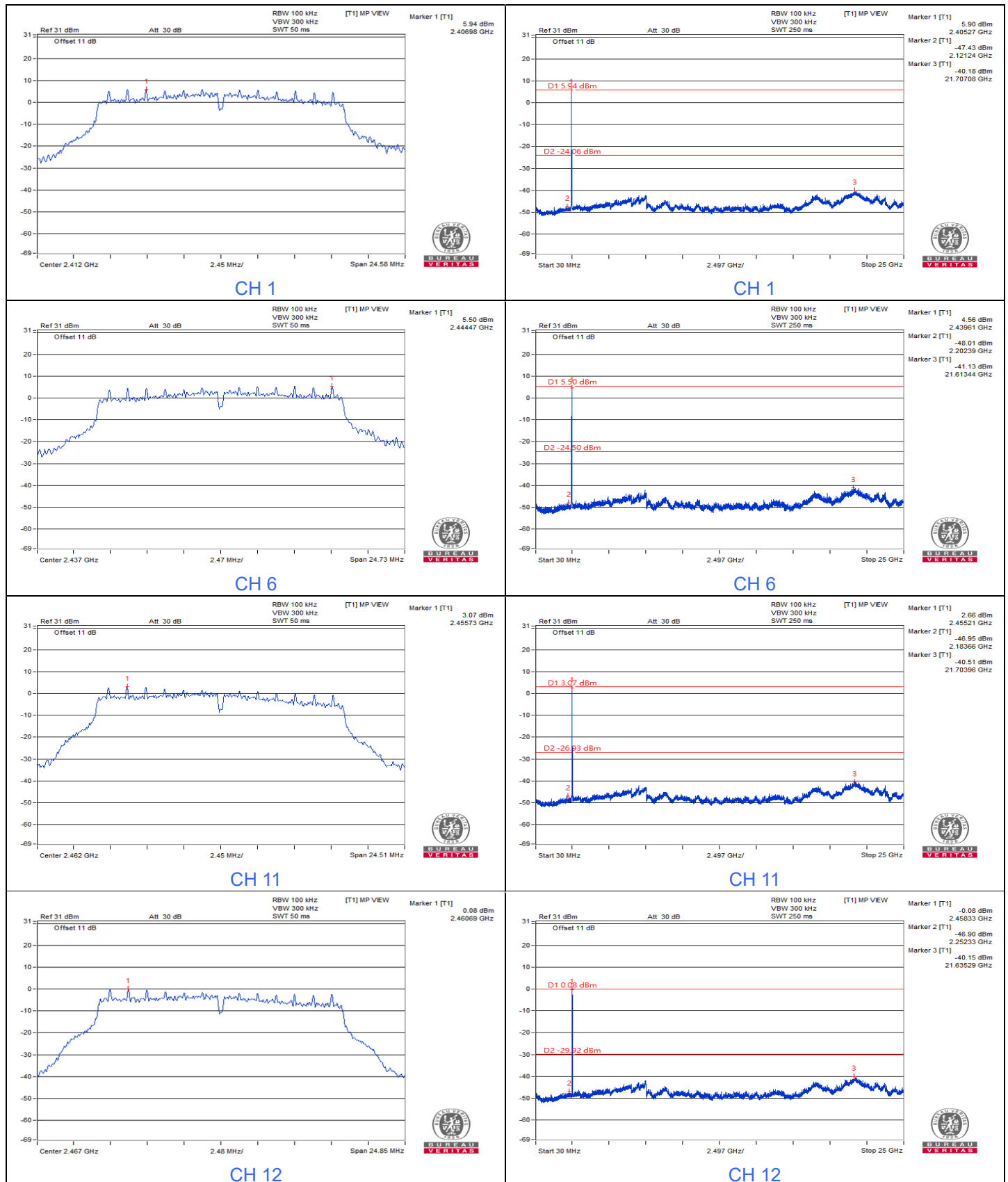
Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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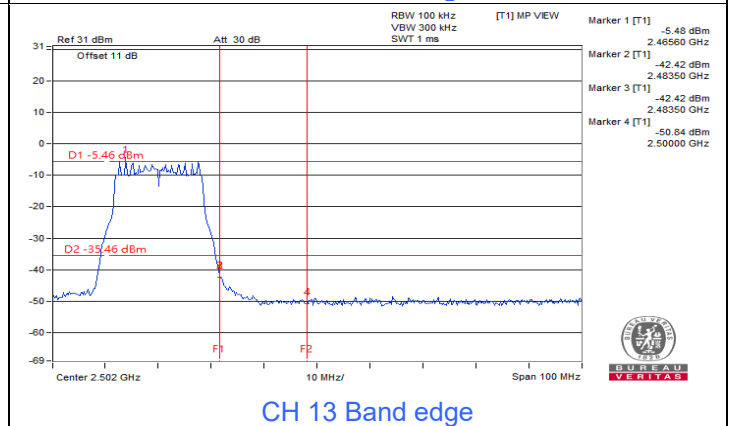
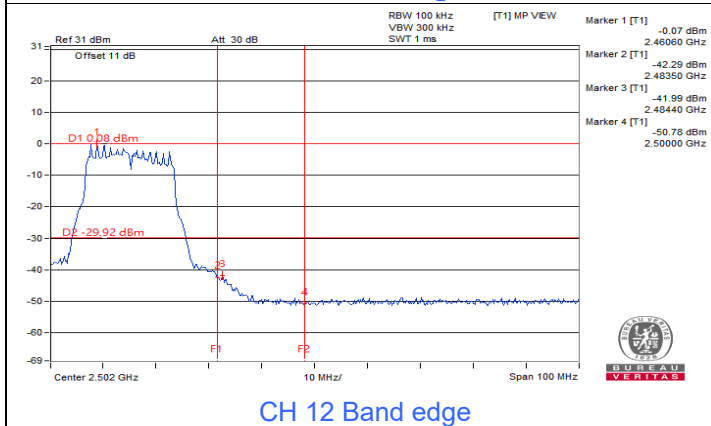
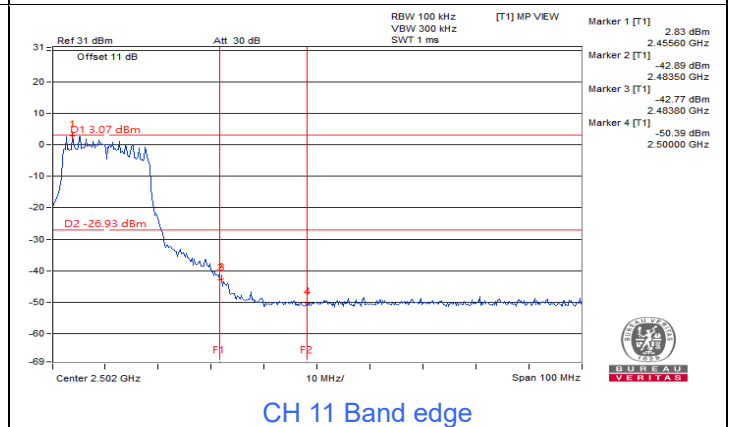
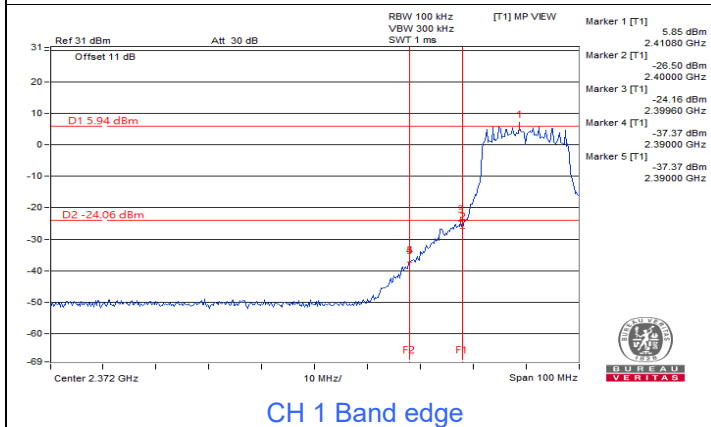
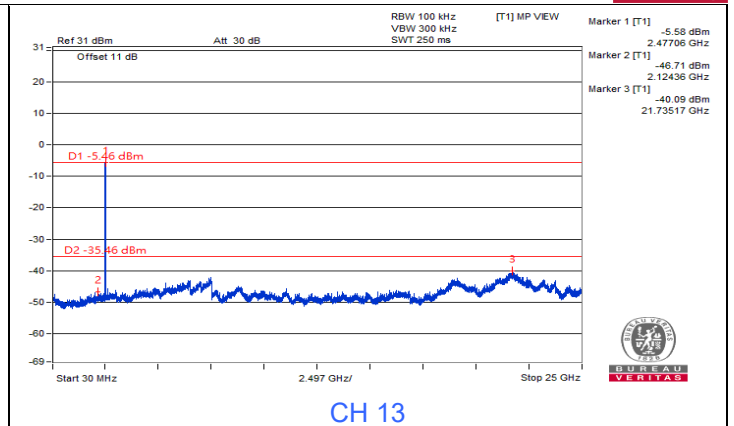
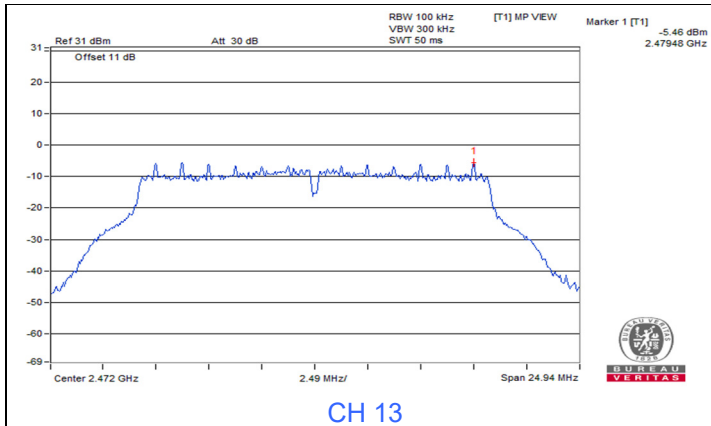
802.11b



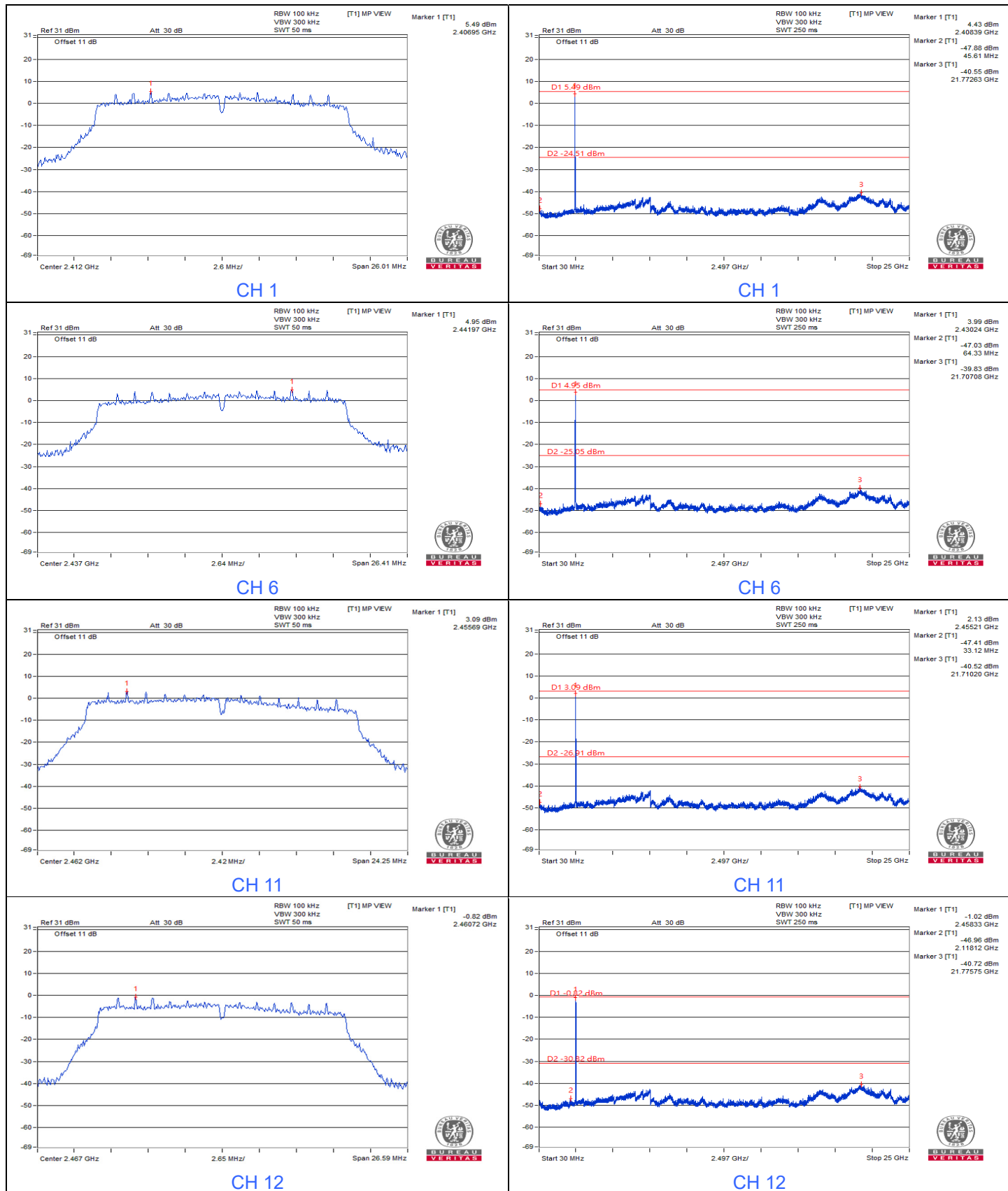


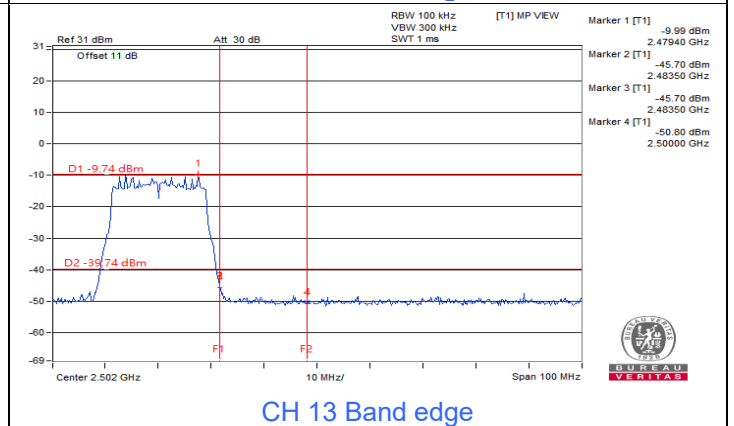
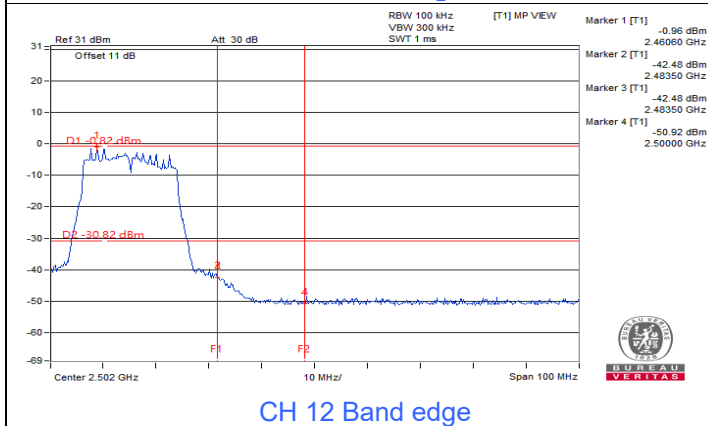
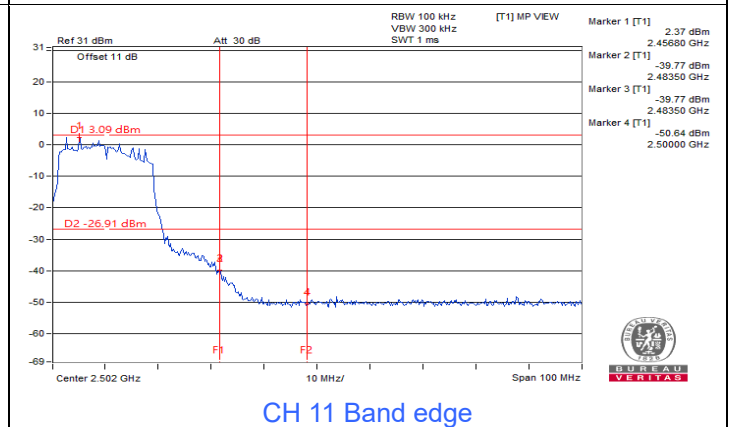
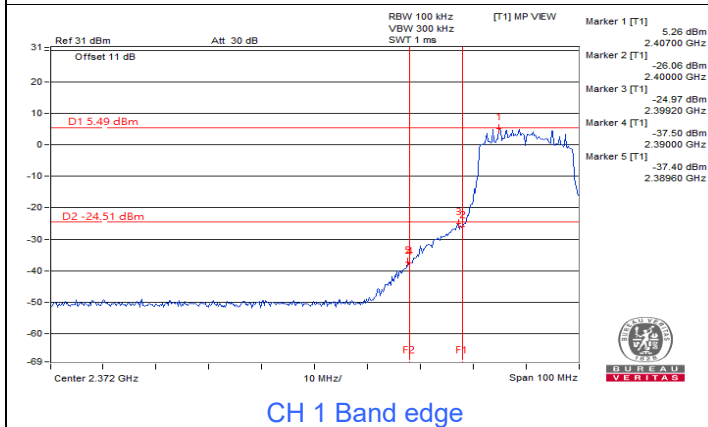
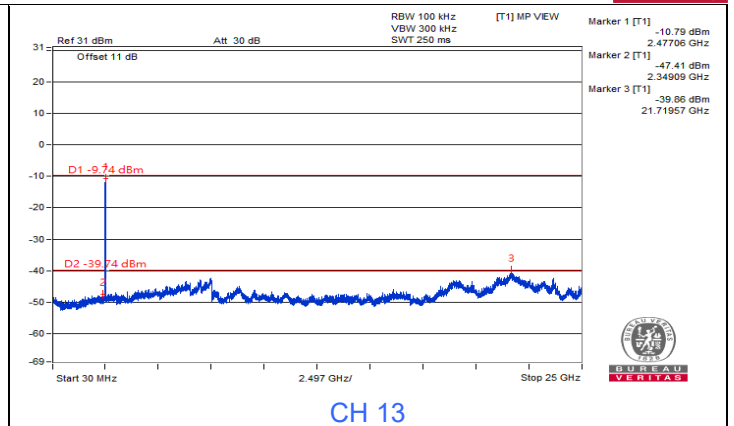
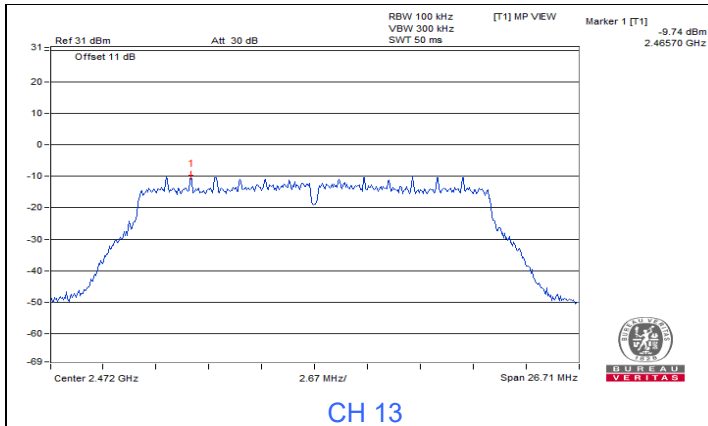
802.11g



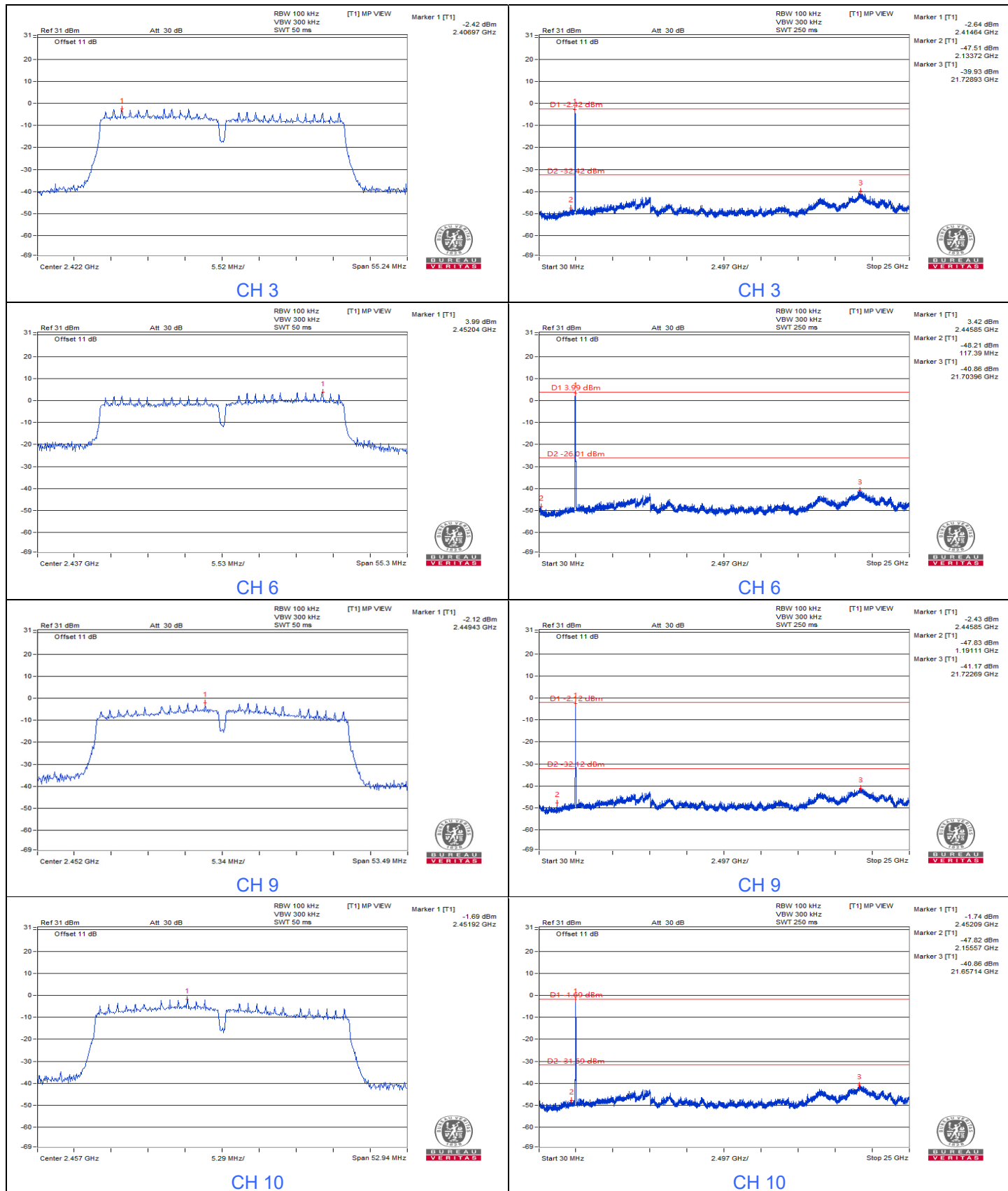


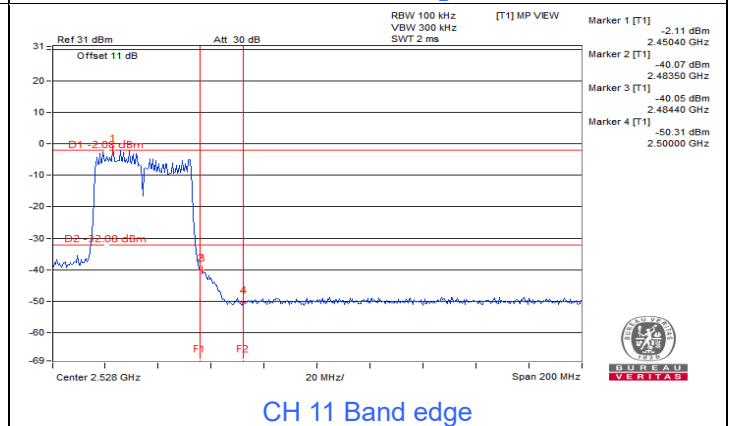
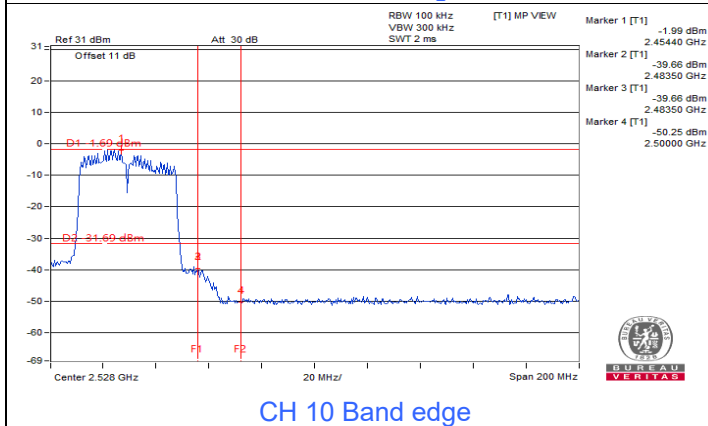
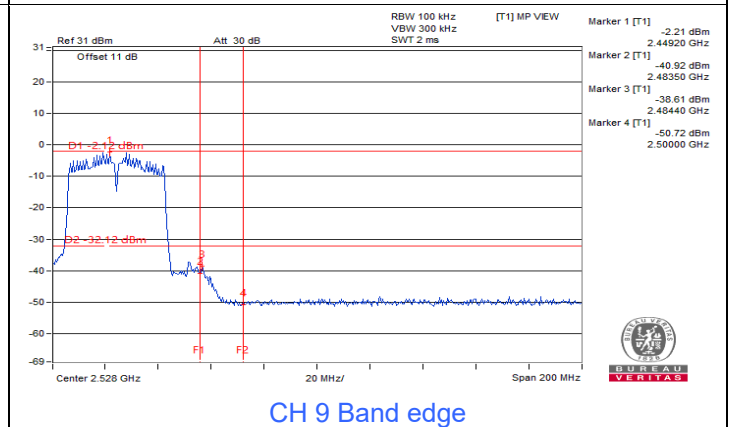
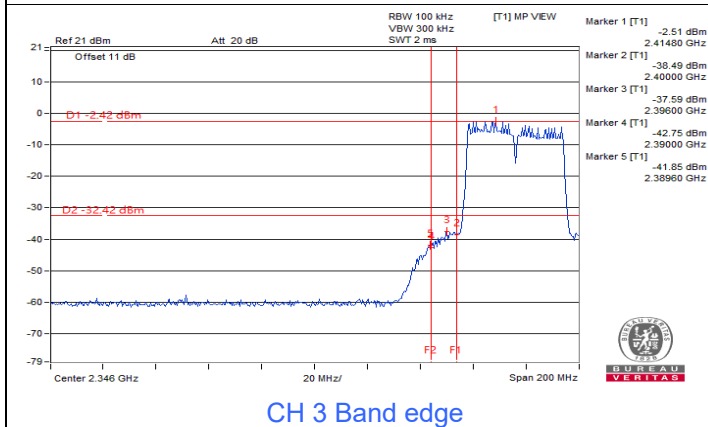
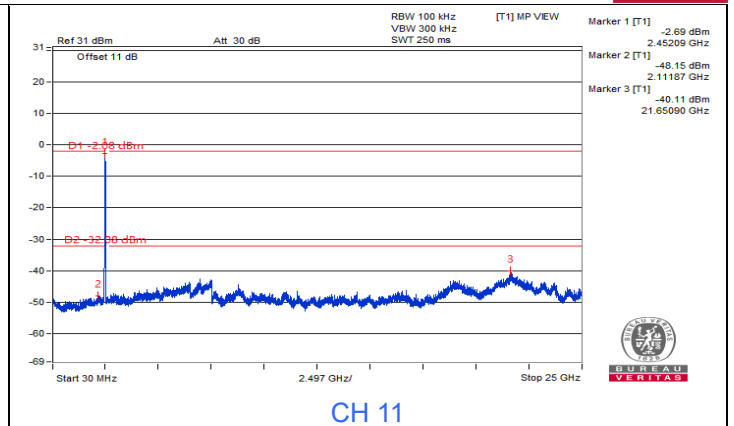
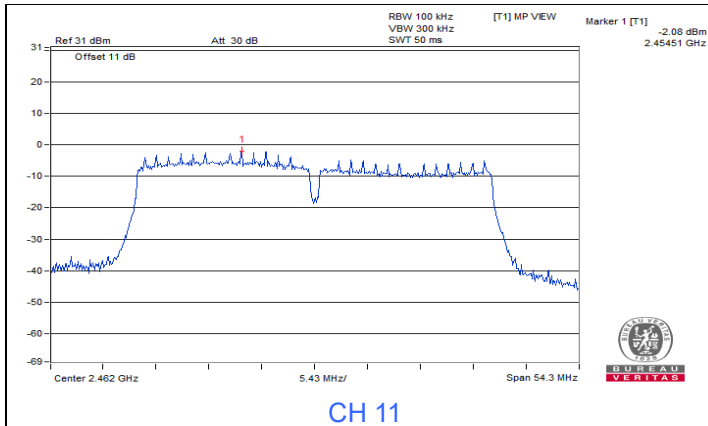
VHT20





VHT40





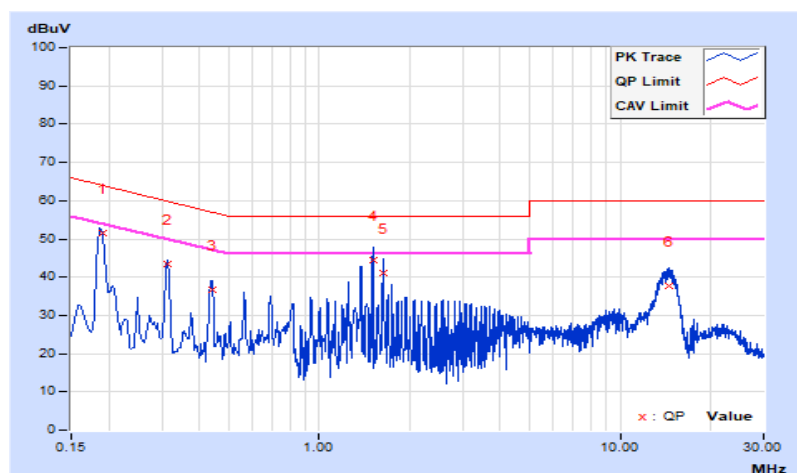
7.5 AC Power Conducted Emissions

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Karl Li		

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	0.19000	10.21	41.26	40.13	51.47	50.34	64.04	54.04	-12.57	-3.70
2	0.31366	10.29	33.10	32.48	43.39	42.77	59.87	49.87	-16.48	-7.10
3	0.43946	10.35	26.42	24.95	36.77	35.30	57.07	47.07	-20.30	-11.77
4	1.50600	10.45	34.04	14.40	44.49	24.85	56.00	46.00	-11.51	-21.15
5	1.62600	10.45	30.50	11.35	40.95	21.80	56.00	46.00	-15.05	-24.20
6	14.51000	10.73	27.03	16.37	37.76	27.10	60.00	50.00	-22.24	-22.90

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

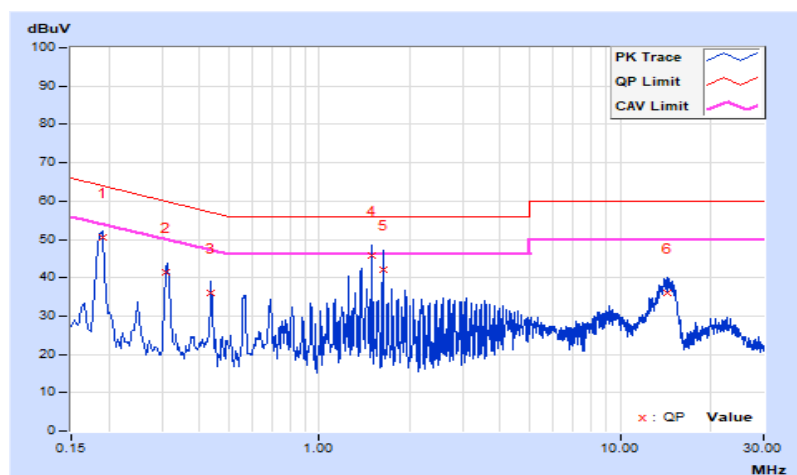


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Karl Li		

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	0.19000	10.25	40.40	40.35	50.65	50.60	64.04	54.04	-13.39	-3.44
2	0.30956	10.32	31.13	28.69	41.45	39.01	59.98	49.98	-18.53	-10.97
3	0.43371	10.38	25.71	21.60	36.09	31.98	57.18	47.18	-21.09	-15.20
4	1.50200	10.48	35.29	15.15	45.77	25.63	56.00	46.00	-10.23	-20.37
5	1.62600	10.48	31.60	11.37	42.08	21.85	56.00	46.00	-13.92	-24.15
6	14.35800	10.88	25.07	17.20	35.95	28.08	60.00	50.00	-24.05	-21.92

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



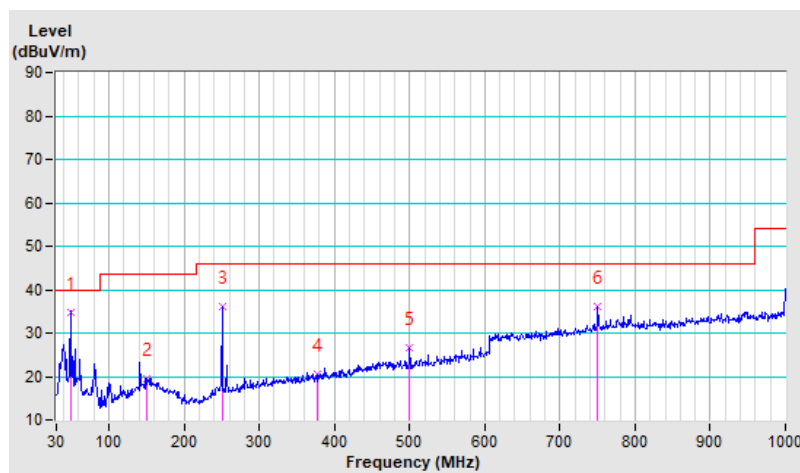
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	48.43	34.9 QP	40.0	-5.1	1.53 H	286	47.9	-13.0
2	150.28	19.5 QP	43.5	-24.0	1.79 H	293	32.0	-12.5
3	250.19	36.1 QP	46.0	-9.9	1.82 H	225	50.0	-13.9
4	376.29	20.6 QP	46.0	-25.4	1.64 H	182	30.8	-10.2
5	500.45	26.6 QP	46.0	-19.4	1.53 H	149	34.0	-7.4
6	749.74	36.1 QP	46.0	-9.9	1.04 H	159	38.0	-1.9

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

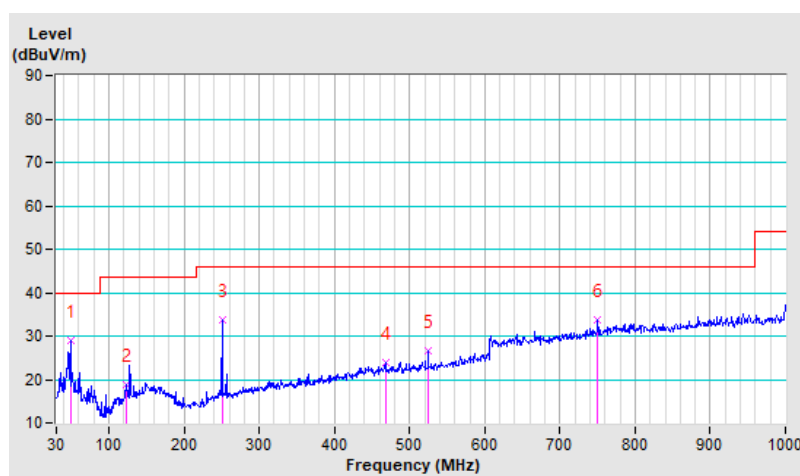


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	48.43	29.0 QP	40.0	-11.0	1.52 V	149	42.0	-13.0
2	123.12	18.8 QP	43.5	-24.7	1.84 V	104	33.5	-14.7
3	250.19	33.6 QP	46.0	-12.4	1.82 V	153	47.5	-13.9
4	467.47	23.8 QP	46.0	-22.2	1.63 V	226	31.5	-7.7
5	524.70	26.6 QP	46.0	-19.4	1.79 V	59	33.4	-6.8
6	749.74	33.7 QP	46.0	-12.3	1.12 V	148	35.6	-1.9

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	3.26 H	133	23.6	31.8
2	2390.00	46.1 AV	54.0	-7.9	3.26 H	133	14.3	31.8
3	*2412.00	102.8 PK			3.26 H	133	71.0	31.8
4	*2412.00	99.9 AV			3.26 H	133	68.1	31.8
5	4824.00	50.1 PK	74.0	-23.9	1.58 H	245	47.1	3.0
6	4824.00	37.2 AV	54.0	-16.8	1.58 H	245	34.2	3.0
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	3.41 V	254	25.0	31.8
2	2390.00	49.3 AV	54.0	-4.7	3.41 V	254	17.5	31.8
3	*2412.00	108.5 PK			3.41 V	254	76.7	31.8
4	*2412.00	106.0 AV			3.41 V	254	74.2	31.8
5	4824.00	50.2 PK	74.0	-23.8	1.78 V	246	47.2	3.0
6	4824.00	37.0 AV	54.0	-17.0	1.78 V	246	34.0	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2437.00	103.0 PK			2.24 H	188	71.2	31.8
2	*2437.00	100.2 AV			2.24 H	188	68.4	31.8
3	4874.00	50.2 PK	74.0	-23.8	1.52 H	271	47.2	3.0
4	4874.00	37.1 AV	54.0	-16.9	1.52 H	271	34.1	3.0
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	*2437.00	108.4 PK			2.10 V	251	76.6	31.8
2	*2437.00	105.8 AV			2.10 V	251	74.0	31.8
3	4874.00	50.5 PK	74.0	-23.5	2.03 V	161	47.5	3.0
4	4874.00	37.3 AV	54.0	-16.7	2.03 V	161	34.3	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	100.7 PK			2.42 H	157	68.8	31.9
2	*2462.00	97.7 AV			2.42 H	157	65.8	31.9
3	2483.50	56.7 PK	74.0	-17.3	2.42 H	157	24.8	31.9
4	2483.50	47.1 AV	54.0	-6.9	2.42 H	157	15.2	31.9
5	4924.00	50.5 PK	74.0	-23.5	1.62 H	219	47.5	3.0
6	4924.00	37.4 AV	54.0	-16.6	1.62 H	219	34.4	3.0
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	107.7 PK			3.47 V	115	75.8	31.9
2	*2462.00	105.2 AV			3.47 V	115	73.3	31.9
3	2483.50	59.6 PK	74.0	-14.4	3.47 V	115	27.7	31.9
4	2483.50	52.8 AV	54.0	-1.2	3.47 V	115	20.9	31.9
5	4924.00	51.0 PK	74.0	-23.0	1.83 V	201	48.0	3.0
6	4924.00	37.8 AV	54.0	-16.2	1.83 V	201	34.8	3.0

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 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2467.00	98.2 PK			3.18 H	156	66.3	31.9
2	*2467.00	95.2 AV			3.18 H	156	63.3	31.9
3	2483.50	57.6 PK	74.0	-16.4	3.18 H	156	25.7	31.9
4	2483.50	47.3 AV	54.0	-6.7	3.18 H	156	15.4	31.9
5	4934.00	51.0 PK	74.0	-23.0	1.42 H	233	47.9	3.1
6	4934.00	37.5 AV	54.0	-16.5	1.42 H	233	34.4	3.1
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	*2467.00	104.0 PK			3.48 V	120	72.1	31.9
2	*2467.00	101.3 AV			3.48 V	120	69.4	31.9
3	2483.50	61.7 PK	74.0	-12.3	3.48 V	120	29.8	31.9
4	2483.50	51.7 AV	54.0	-2.3	3.48 V	120	19.8	31.9
5	4934.00	51.3 PK	74.0	-22.7	1.68 V	228	48.2	3.1
6	4934.00	37.9 AV	54.0	-16.1	1.68 V	228	34.8	3.1

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 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2472.00	91.4 PK			1.24 H	184	59.5	31.9
2	*2472.00	88.1 AV			1.24 H	184	56.2	31.9
3	2483.50	58.5 PK	74.0	-15.5	1.24 H	184	26.6	31.9
4	2483.50	48.0 AV	54.0	-6.0	1.24 H	184	16.1	31.9
5	4944.00	50.2 PK	74.0	-23.8	1.52 H	214	47.1	3.1
6	4944.00	36.8 AV	54.0	-17.2	1.52 H	214	33.7	3.1
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	*2472.00	98.2 PK			3.19 V	243	66.3	31.9
2	*2472.00	95.4 AV			3.19 V	243	63.5	31.9
3	2483.50	61.8 PK	74.0	-12.2	3.19 V	243	29.9	31.9
4	2483.50	52.2 AV	54.0	-1.8	3.19 V	243	20.3	31.9
5	4944.00	50.8 PK	74.0	-23.2	1.99 V	132	47.7	3.1
6	4944.00	37.2 AV	54.0	-16.8	1.99 V	132	34.1	3.1

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	62.2 PK	74.0	-11.8	1.50 H	155	30.4	31.8
2	2390.00	46.1 AV	54.0	-7.9	1.50 H	155	14.3	31.8
3	*2412.00	104.6 PK			1.50 H	155	72.8	31.8
4	*2412.00	95.1 AV			1.50 H	155	63.3	31.8
5	4824.00	49.9 PK	74.0	-24.1	1.52 H	269	46.9	3.0
6	4824.00	42.8 AV	54.0	-11.2	1.52 H	269	39.8	3.0
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	69.5 PK	74.0	-4.5	3.35 V	256	37.7	31.8
2	2390.00	51.9 AV	54.0	-2.1	3.35 V	256	20.1	31.8
3	*2412.00	111.7 PK			3.35 V	256	79.9	31.8
4	*2412.00	102.1 AV			3.35 V	256	70.3	31.8
5	4824.00	50.3 PK	74.0	-23.7	1.86 V	164	47.3	3.0
6	4824.00	37.2 AV	54.0	-16.8	1.86 V	164	34.2	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2437.00	104.0 PK			2.25 H	181	72.2	31.8
2	*2437.00	93.7 AV			2.25 H	181	61.9	31.8
3	4874.00	49.8 PK	74.0	-24.2	1.52 H	271	46.8	3.0
4	4874.00	39.6 AV	54.0	-14.4	1.52 H	271	36.6	3.0
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	*2437.00	111.2 PK			3.34 V	255	79.4	31.8
2	*2437.00	101.3 AV			3.34 V	255	69.5	31.8
3	4874.00	50.9 PK	74.0	-23.1	1.68 V	210	47.9	3.0
4	4874.00	40.9 AV	54.0	-13.1	1.68 V	210	37.9	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	105.2 PK			3.15 H	126	73.3	31.9
2	*2462.00	95.4 AV			3.15 H	126	63.5	31.9
3	2483.50	65.2 PK	74.0	-8.8	3.15 H	126	33.3	31.9
4	2483.50	48.0 AV	54.0	-6.0	3.15 H	126	16.1	31.9
5	4924.00	50.6 PK	74.0	-23.4	1.43 H	187	47.6	3.0
6	4924.00	43.1 AV	54.0	-10.9	1.43 H	187	40.1	3.0
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			2.58 V	254	78.3	31.9
2	*2462.00	101.0 AV			2.58 V	254	69.1	31.9
3	2483.50	64.2 PK	74.0	-9.8	2.58 V	254	32.3	31.9
4	2483.50	51.6 AV	54.0	-2.4	2.58 V	254	19.7	31.9
5	4924.00	51.1 PK	74.0	-22.9	2.09 V	115	48.1	3.0
6	4924.00	44.2 AV	54.0	-9.8	2.09 V	115	41.2	3.0

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 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2467.00	101.4 PK			3.19 H	126	69.5	31.9
2	*2467.00	91.7 AV			3.19 H	126	59.8	31.9
3	2483.50	62.1 PK	74.0	-11.9	3.19 H	126	30.2	31.9
4	2483.50	48.4 AV	54.0	-5.6	3.19 H	126	16.5	31.9
5	4934.00	50.3 PK	74.0	-23.7	1.79 H	204	47.2	3.1
6	4934.00	37.0 AV	54.0	-17.0	1.79 H	204	33.9	3.1
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	*2467.00	106.4 PK			2.47 V	257	74.5	31.9
2	*2467.00	96.8 AV			2.47 V	257	64.9	31.9
3	2483.50	67.2 PK	74.0	-6.8	2.47 V	257	35.3	31.9
4	2483.50	52.2 AV	54.0	-1.8	2.47 V	257	20.3	31.9
5	4934.00	50.7 PK	74.0	-23.3	3.07 V	228	47.6	3.1
6	4934.00	37.2 AV	54.0	-16.8	3.07 V	228	34.1	3.1

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 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2472.00	94.7 PK			3.15 H	157	62.8	31.9
2	*2472.00	84.9 AV			3.15 H	157	53.0	31.9
3	2483.50	65.2 PK	74.0	-8.8	3.15 H	157	33.3	31.9
4	2483.50	48.3 AV	54.0	-5.7	3.15 H	157	16.4	31.9
5	4944.00	50.0 PK	74.0	-24.0	1.79 H	138	46.9	3.1
6	4944.00	37.2 AV	54.0	-16.8	1.79 H	138	34.1	3.1
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	*2472.00	100.5 PK			3.56 V	125	68.6	31.9
2	*2472.00	90.8 AV			3.56 V	125	58.9	31.9
3	2483.50	72.1 PK	74.0	-1.9	3.56 V	125	40.2	31.9
4	2483.50	53.3 AV	54.0	-0.7	3.56 V	125	21.4	31.9
5	4944.00	50.5 PK	74.0	-23.5	2.17 V	224	47.4	3.1
6	4944.00	37.3 AV	54.0	-16.7	2.17 V	224	34.2	3.1

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	64.8 PK	74.0	-9.2	3.32 H	132	33.0	31.8
2	2390.00	49.4 AV	54.0	-4.6	3.32 H	132	17.6	31.8
3	*2412.00	106.0 PK			3.32 H	132	74.2	31.8
4	*2412.00	96.4 AV			3.32 H	132	64.6	31.8
5	4824.00	50.1 PK	74.0	-23.9	1.67 H	202	47.1	3.0
6	4824.00	42.8 AV	54.0	-11.2	1.67 H	202	39.8	3.0
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	69.7 PK	74.0	-4.3	2.64 V	258	37.9	31.8
2	2390.00	53.2 AV	54.0	-0.8	2.64 V	258	21.4	31.8
3	*2412.00	111.9 PK			2.64 V	258	80.1	31.8
4	*2412.00	101.6 AV			2.64 V	258	69.8	31.8
5	4824.00	50.7 PK	74.0	-23.3	1.56 V	222	47.7	3.0
6	4824.00	37.3 AV	54.0	-16.7	1.56 V	222	34.3	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2437.00	106.1 PK			2.23 H	186	74.3	31.8
2	*2437.00	95.0 AV			2.23 H	186	63.2	31.8
3	4874.00	50.3 PK	74.0	-23.7	1.78 H	186	47.3	3.0
4	4874.00	38.1 AV	54.0	-15.9	1.78 H	186	35.1	3.0
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	*2437.00	111.0 PK			3.16 V	260	79.2	31.8
2	*2437.00	100.6 AV			3.16 V	260	68.8	31.8
3	4874.00	50.6 PK	74.0	-23.4	1.99 V	216	47.6	3.0
4	4874.00	38.2 AV	54.0	-15.8	1.99 V	216	35.2	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	104.9 PK			3.19 H	123	73.0	31.9
2	*2462.00	94.7 AV			3.19 H	123	62.8	31.9
3	2483.50	66.5 PK	74.0	-7.5	3.19 H	123	34.6	31.9
4	2483.50	49.3 AV	54.0	-4.7	3.19 H	123	17.4	31.9
5	4924.00	50.3 PK	74.0	-23.7	1.85 H	152	47.3	3.0
6	4924.00	37.6 AV	54.0	-16.4	1.85 H	152	34.6	3.0
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			2.62 V	248	77.5	31.9
2	*2462.00	99.1 AV			2.62 V	248	67.2	31.9
3	2483.50	71.7 PK	74.0	-2.3	2.62 V	248	39.8	31.9
4	2483.50	53.0 AV	54.0	-1.0	2.62 V	248	21.1	31.9
5	4924.00	50.8 PK	74.0	-23.2	2.31 V	211	47.8	3.0
6	4924.00	39.1 AV	54.0	-14.9	2.31 V	211	36.1	3.0

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 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2467.00	99.7 PK			2.27 H	153	67.8	31.9
2	*2467.00	89.2 AV			2.27 H	153	57.3	31.9
3	2483.50	65.8 PK	74.0	-8.2	2.27 H	153	33.9	31.9
4	2483.50	49.3 AV	54.0	-4.7	2.27 H	153	17.4	31.9
5	4934.00	50.6 PK	74.0	-23.4	1.33 H	162	47.5	3.1
6	4934.00	37.9 AV	54.0	-16.1	1.33 H	162	34.8	3.1
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	*2467.00	105.1 PK			2.27 V	260	73.2	31.9
2	*2467.00	93.9 AV			2.27 V	260	62.0	31.9
3	2483.50	67.9 PK	74.0	-6.1	2.27 V	260	36.0	31.9
4	2483.50	52.5 AV	54.0	-1.5	2.27 V	260	20.6	31.9
5	4934.00	51.2 PK	74.0	-22.8	2.19 V	217	48.1	3.1
6	4934.00	38.4 AV	54.0	-15.6	2.19 V	217	35.3	3.1

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 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2472.00	90.7 PK			2.17 H	154	58.8	31.9
2	*2472.00	80.4 AV			2.17 H	154	48.5	31.9
3	2483.50	65.1 PK	74.0	-8.9	2.17 H	154	33.2	31.9
4	2483.50	46.2 AV	54.0	-7.8	2.17 H	154	14.3	31.9
5	4944.00	50.2 PK	74.0	-23.8	2.10 H	238	47.1	3.1
6	4944.00	37.7 AV	54.0	-16.3	2.10 H	238	34.6	3.1
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	*2472.00	97.1 PK			3.60 V	130	65.2	31.9
2	*2472.00	87.1 AV			3.60 V	130	55.2	31.9
3	2483.50	72.0 PK	74.0	-2.0	3.60 V	130	40.1	31.9
4	2483.50	49.7 AV	54.0	-4.3	3.60 V	130	17.8	31.9
5	4944.00	50.8 PK	74.0	-23.2	2.43 V	213	47.7	3.1
6	4944.00	38.5 AV	54.0	-15.5	2.43 V	213	35.4	3.1

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	60.1 PK	74.0	-13.9	1.49 H	271	28.3	31.8
2	2390.00	47.9 AV	54.0	-6.1	1.49 H	271	16.1	31.8
3	*2422.00	98.2 PK			1.49 H	271	66.4	31.8
4	*2422.00	88.0 AV			1.49 H	271	56.2	31.8
5	4844.00	50.4 PK	74.0	-23.6	1.57 H	249	47.5	2.9
6	4844.00	37.7 AV	54.0	-16.3	1.57 H	249	34.8	2.9
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	67.8 PK	74.0	-6.2	3.70 V	112	36.0	31.8
2	2390.00	52.9 AV	54.0	-1.1	3.70 V	112	21.1	31.8
3	*2422.00	104.8 PK			3.70 V	112	73.0	31.8
4	*2422.00	94.3 AV			3.70 V	112	62.5	31.8
5	4844.00	51.0 PK	74.0	-23.0	2.56 V	213	48.1	2.9
6	4844.00	38.1 AV	54.0	-15.9	2.56 V	213	35.2	2.9

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2437.00	103.8 PK			3.26 H	154	72.0	31.8
2	*2437.00	93.0 AV			3.26 H	154	61.2	31.8
3	4874.00	50.2 PK	74.0	-23.8	1.51 H	262	47.2	3.0
4	4874.00	37.1 AV	54.0	-16.9	1.51 H	262	34.1	3.0
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	*2437.00	110.2 PK			3.62 V	110	78.4	31.8
2	*2437.00	99.5 AV			3.62 V	110	67.7	31.8
3	4874.00	50.9 PK	74.0	-23.1	2.62 V	205	47.9	3.0
4	4874.00	37.9 AV	54.0	-16.1	2.62 V	205	34.9	3.0

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	100.0 PK			3.16 H	125	68.1	31.9
2	*2452.00	89.6 AV			3.16 H	125	57.7	31.9
3	2483.50	66.0 PK	74.0	-8.0	3.16 H	125	34.1	31.9
4	2483.50	49.4 AV	54.0	-4.6	3.16 H	125	17.5	31.9
5	4904.00	49.6 PK	74.0	-24.4	1.92 H	335	46.6	3.0
6	4904.00	37.1 AV	54.0	-16.9	1.92 H	335	34.1	3.0
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	105.5 PK			3.57 V	126	73.6	31.9
2	*2452.00	94.8 AV			3.57 V	126	62.9	31.9
3	2483.50	70.3 PK	74.0	-3.7	3.57 V	126	38.4	31.9
4	2483.50	53.2 AV	54.0	-0.8	3.57 V	126	21.3	31.9
5	4904.00	50.3 PK	74.0	-23.7	2.13 V	175	47.3	3.0
6	4904.00	37.9 AV	54.0	-16.1	2.13 V	175	34.9	3.0

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 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	*2457.00	98.2 PK			2.61 H	158	66.3	31.9
2	*2457.00	87.9 AV			2.61 H	158	56.0	31.9
3	2483.50	63.2 PK	74.0	-10.8	2.61 H	158	31.3	31.9
4	2483.50	47.5 AV	54.0	-6.5	2.61 H	158	15.6	31.9
5	4914.00	50.8 PK	74.0	-23.2	2.13 H	159	47.8	3.0
6	4914.00	39.6 AV	54.0	-14.4	2.13 H	159	36.6	3.0
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	*2457.00	105.3 PK			3.56 V	116	73.4	31.9
2	*2457.00	94.7 AV			3.56 V	116	62.8	31.9
3	2483.50	70.0 PK	74.0	-4.0	3.56 V	116	38.1	31.9
4	2483.50	53.3 AV	54.0	-0.7	3.56 V	116	21.4	31.9
5	4914.00	51.1 PK	74.0	-22.9	2.34 V	101	48.1	3.0
6	4914.00	39.3 AV	54.0	-14.7	2.34 V	101	36.3	3.0

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 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Owen Lee		

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	99.6 PK			2.64 H	156	67.7	31.9
2	*2462.00	88.5 AV			2.64 H	156	56.6	31.9
3	2483.50	64.3 PK	74.0	-9.7	2.64 H	156	32.4	31.9
4	2483.50	46.2 AV	54.0	-7.8	2.64 H	156	14.3	31.9
5	4924.00	50.8 PK	74.0	-23.2	2.14 H	236	47.8	3.0
6	4924.00	38.3 AV	54.0	-15.7	2.14 H	236	35.3	3.0
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	106.0 PK			3.45 V	115	74.1	31.9
2	*2462.00	95.6 AV			3.45 V	115	63.7	31.9
3	2483.50	70.3 PK	74.0	-3.7	3.45 V	115	38.4	31.9
4	2483.50	53.5 AV	54.0	-0.5	3.45 V	115	21.6	31.9
5	4924.00	50.8 PK	74.0	-23.2	2.62 V	174	47.8	3.0
6	4924.00	38.3 AV	54.0	-15.7	2.62 V	174	35.3	3.0

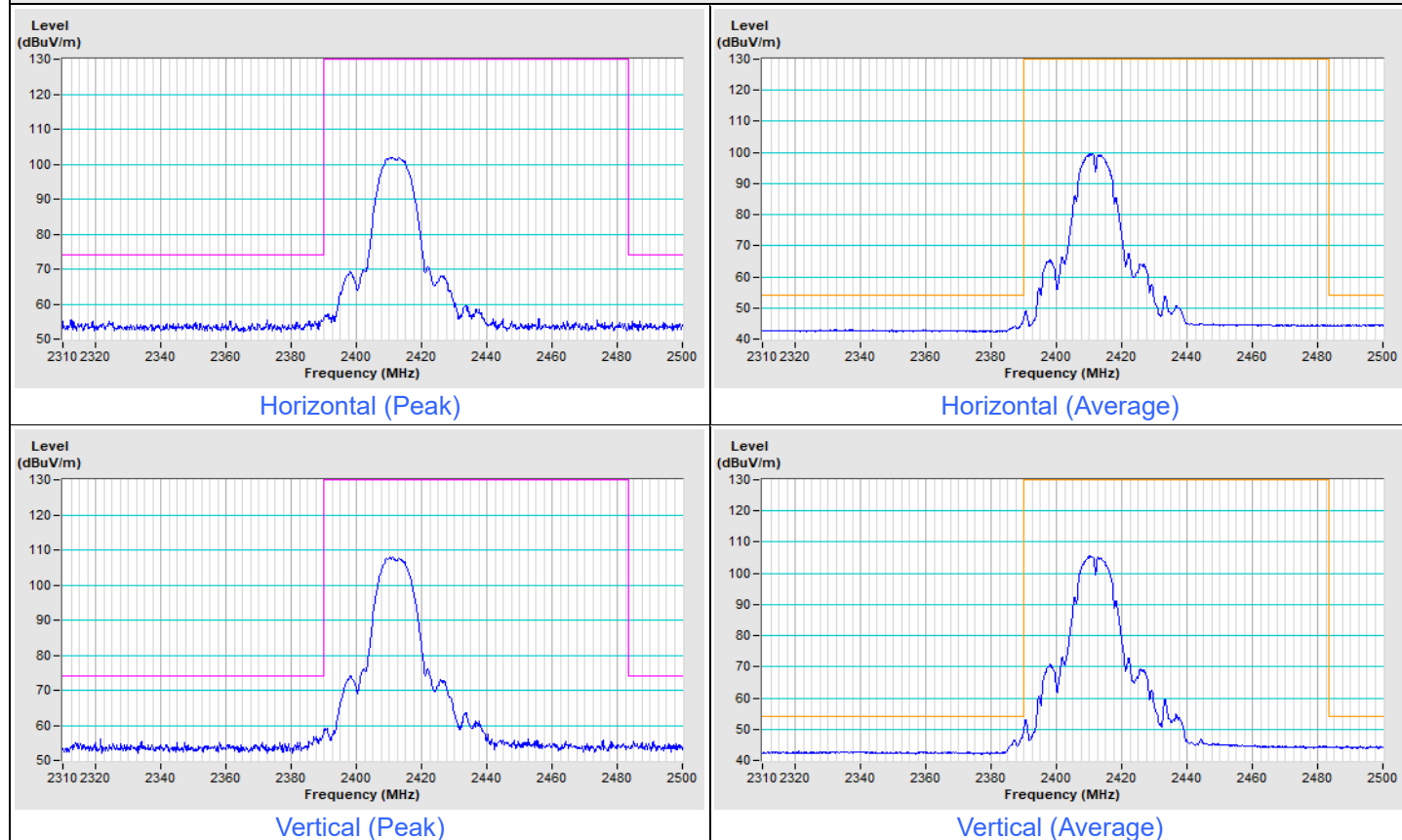
Remarks:

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.

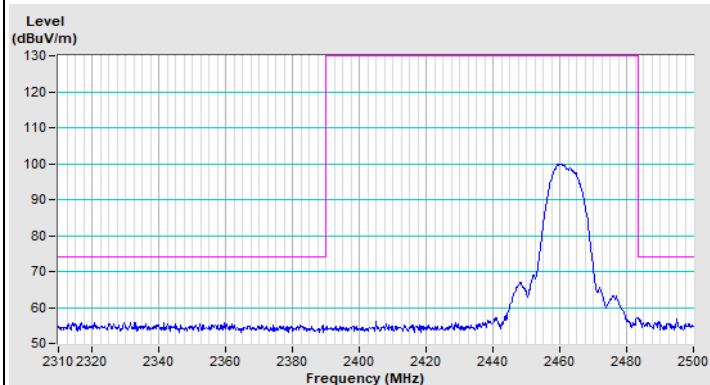
Plot of Band Edge

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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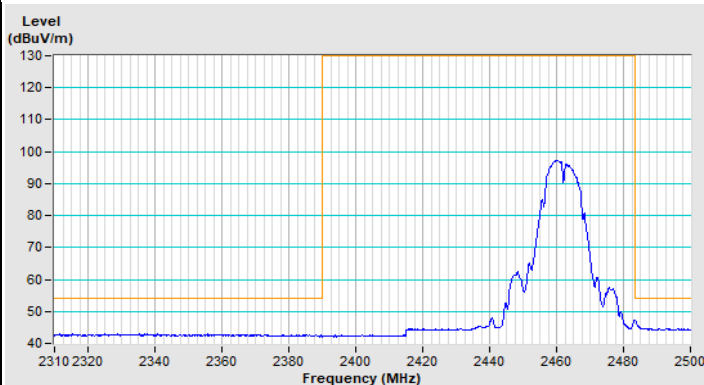
802.11b Channel 1



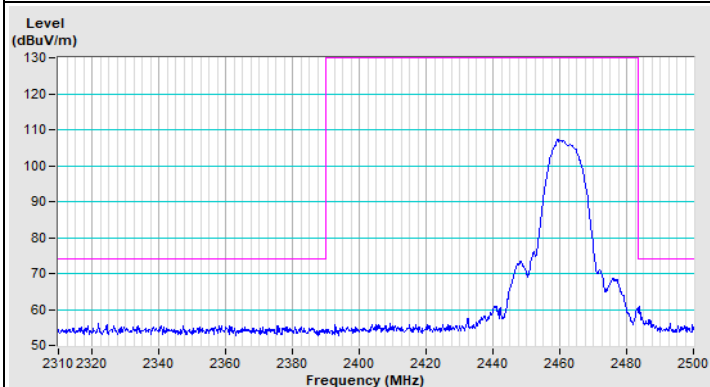
802.11b Channel 11



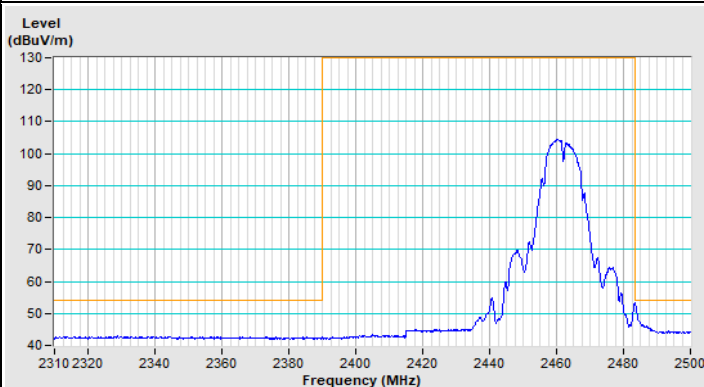
Horizontal (Peak)



Horizontal (Average)

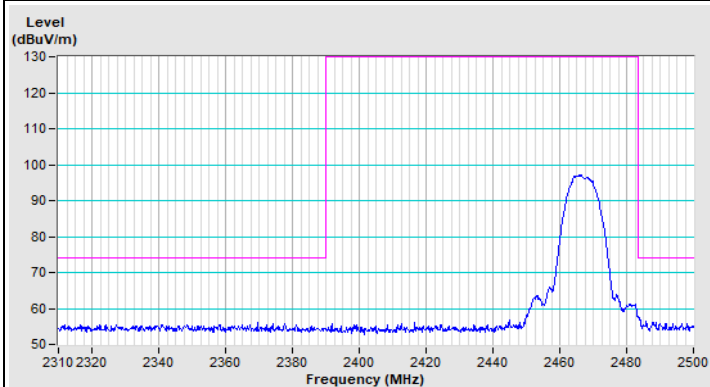


Vertical (Peak)

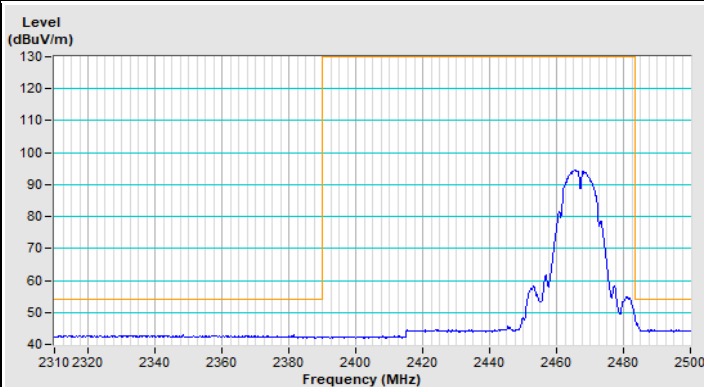


Vertical (Average)

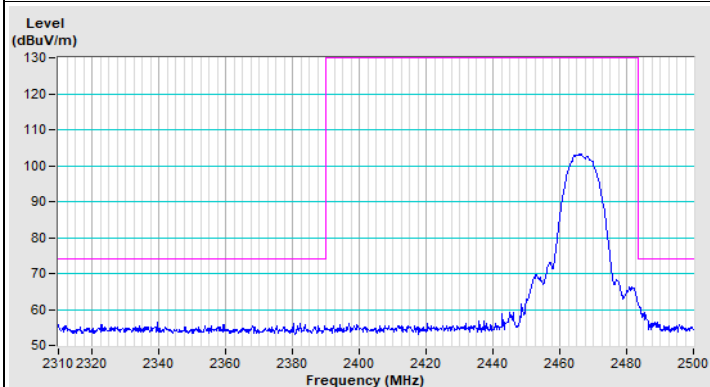
802.11b Channel 12



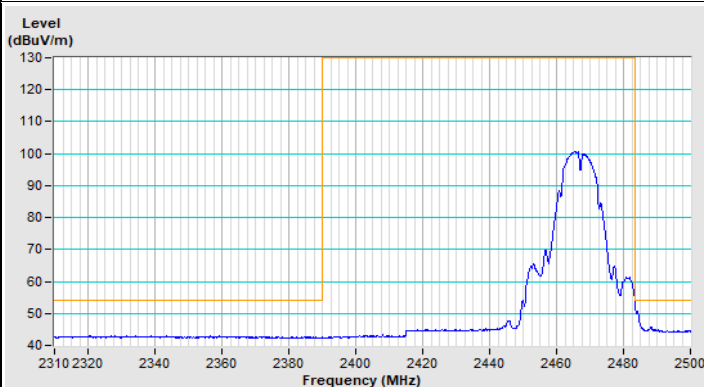
Horizontal (Peak)



Horizontal (Average)

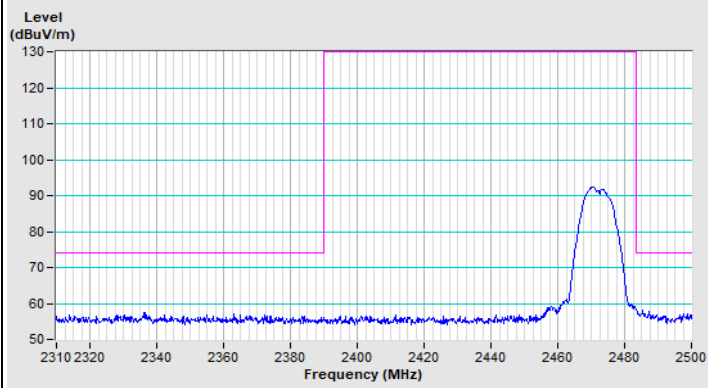


Vertical (Peak)

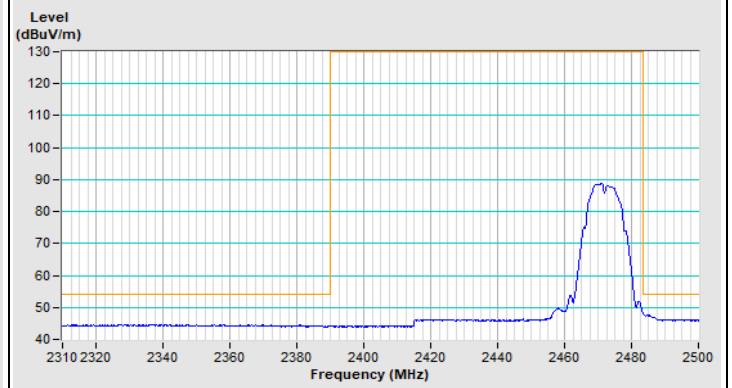


Vertical (Average)

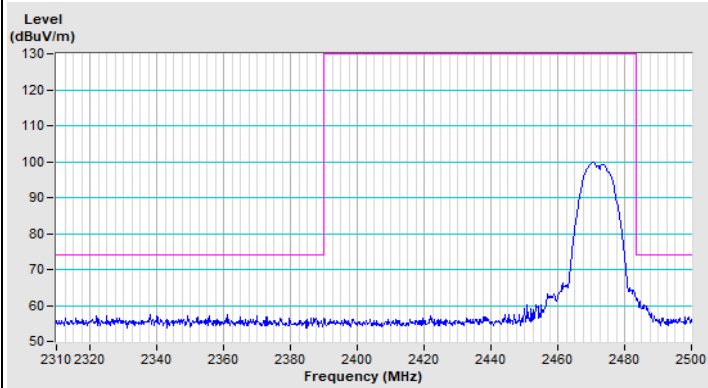
802.11b Channel 13



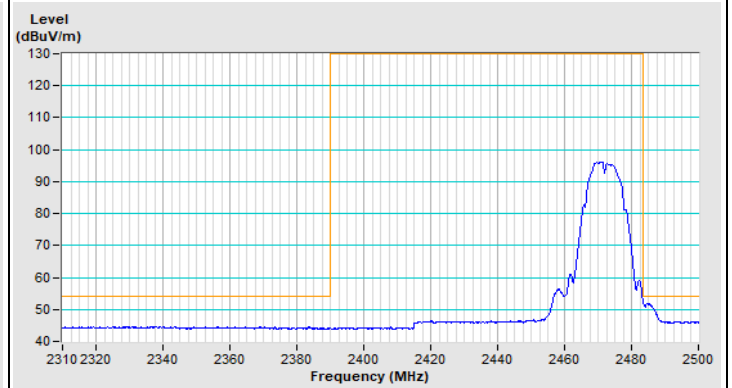
Horizontal (Peak)



Horizontal (Average)



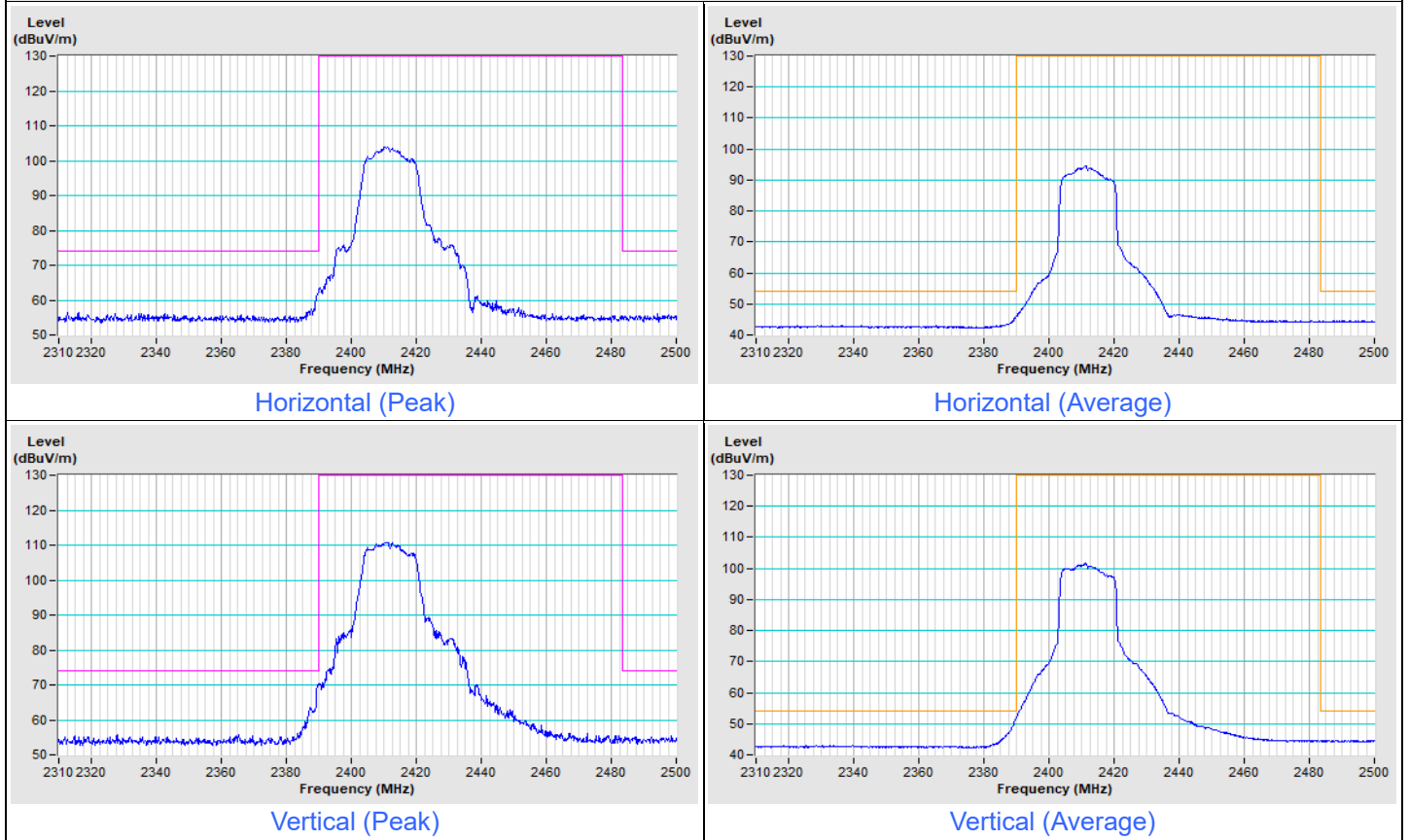
Vertical (Peak)



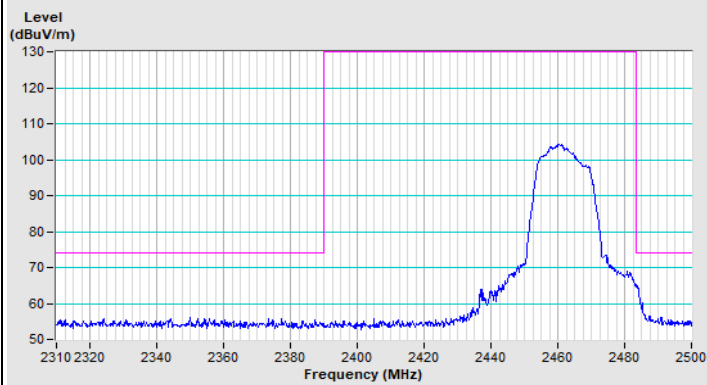
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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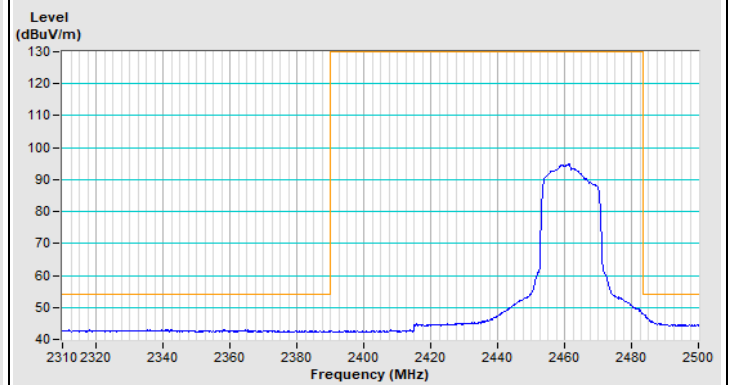
802.11g Channel 1



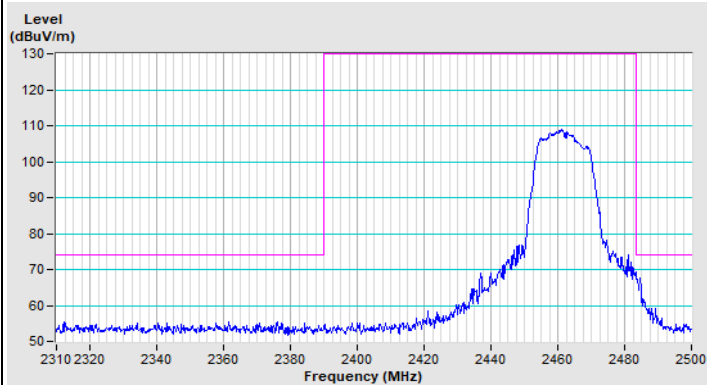
802.11g Channel 11



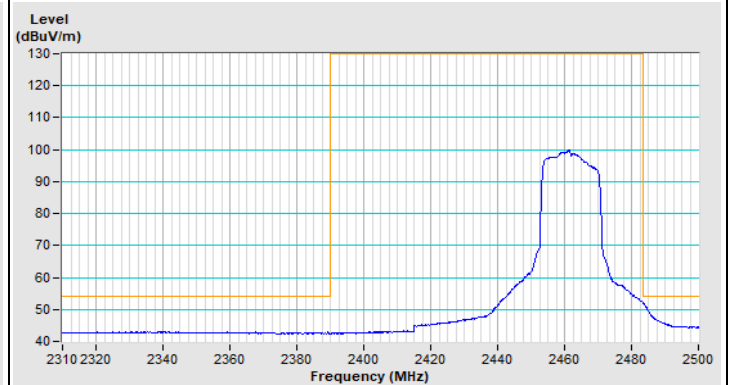
Horizontal (Peak)



Horizontal (Average)

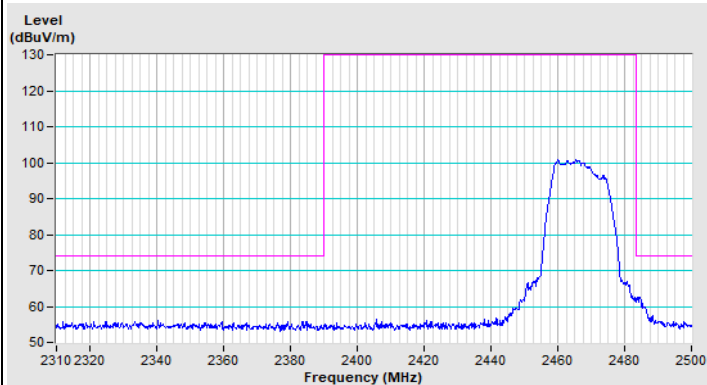


Vertical (Peak)

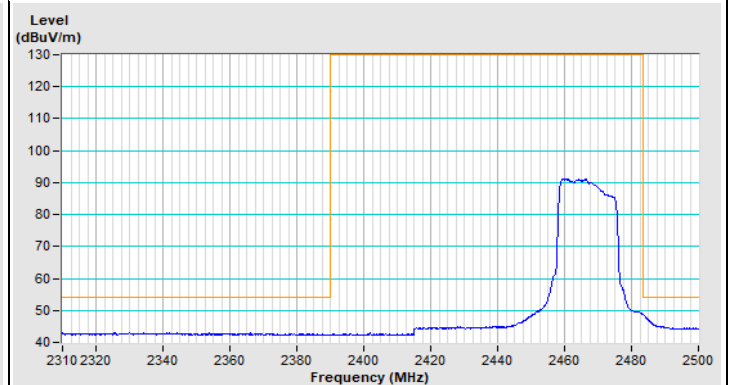


Vertical (Average)

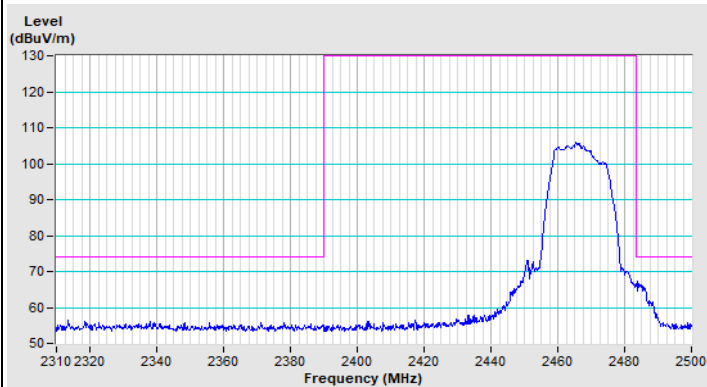
802.11g Channel 12



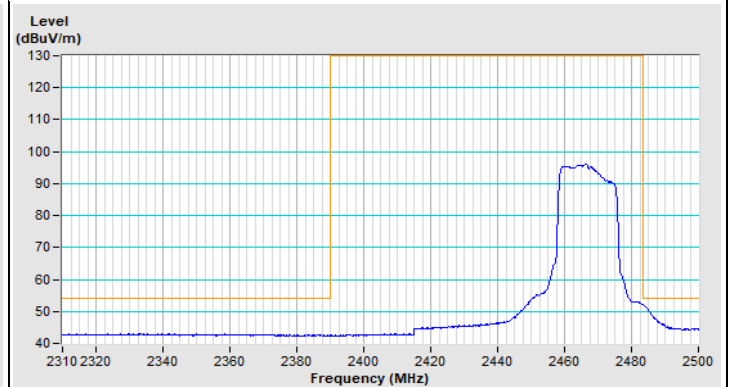
Horizontal (Peak)



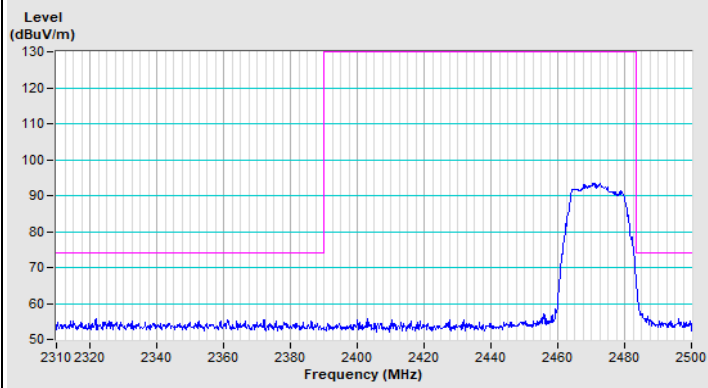
Horizontal (Average)



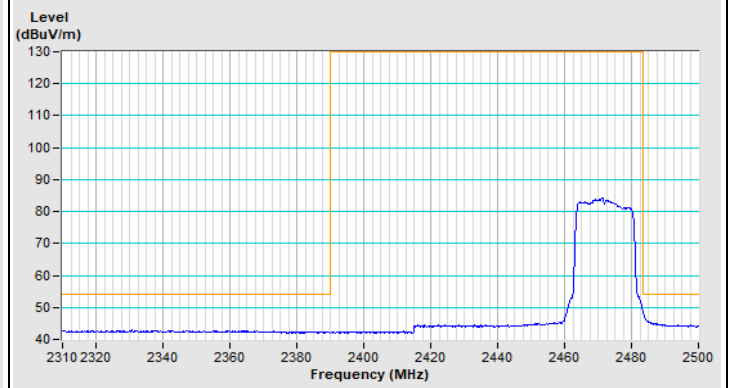
Vertical (Peak)



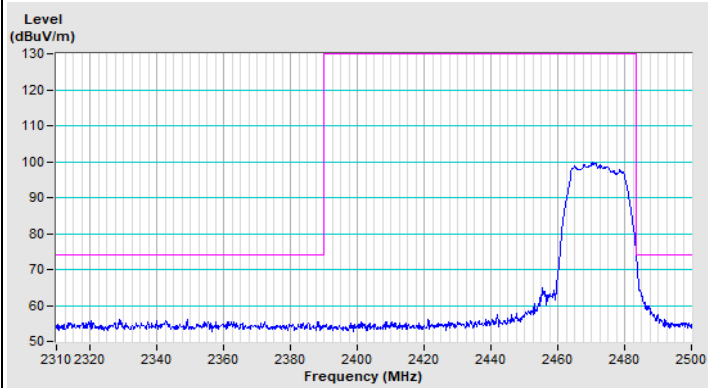
Vertical (Average)

802.11g Channel 13

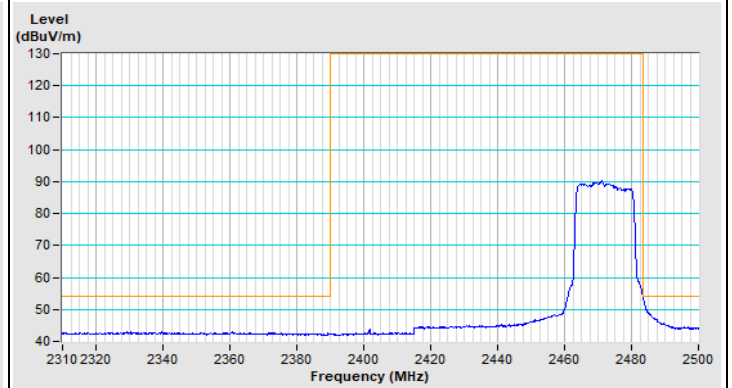
Horizontal (Peak)



Horizontal (Average)



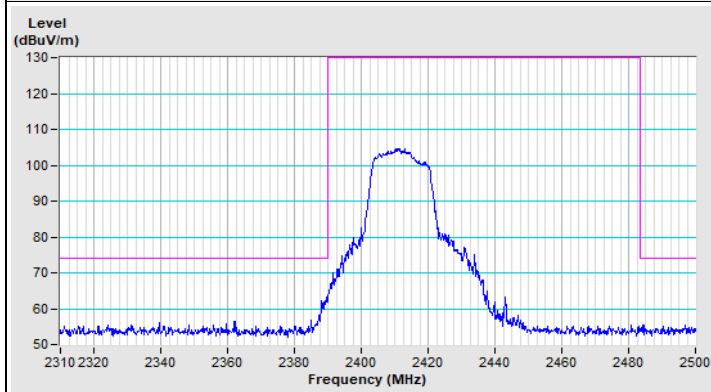
Vertical (Peak)



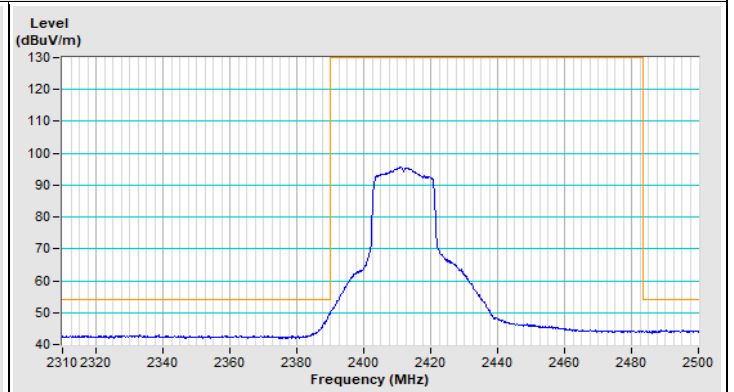
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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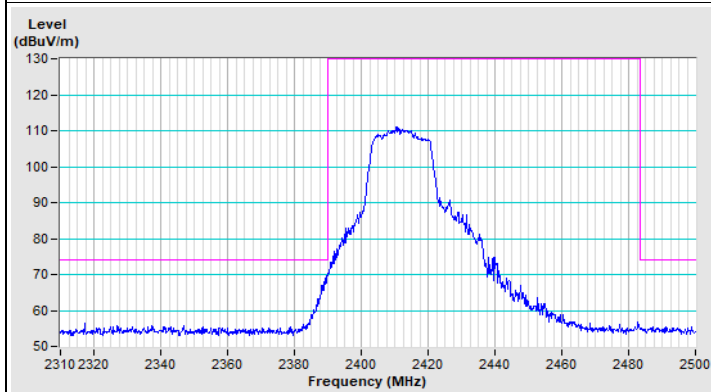
VHT20 Channel 1



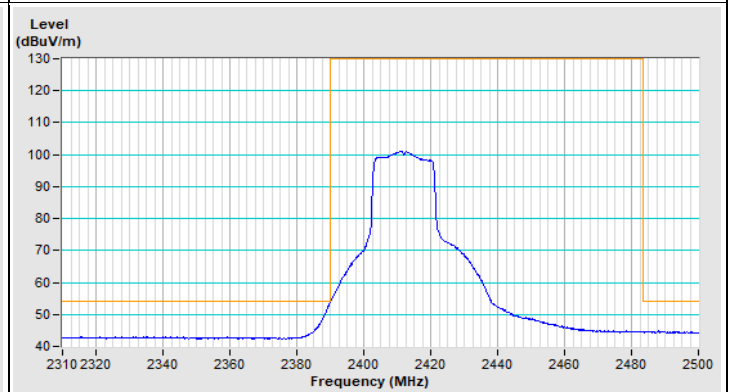
Horizontal (Peak)



Horizontal (Average)

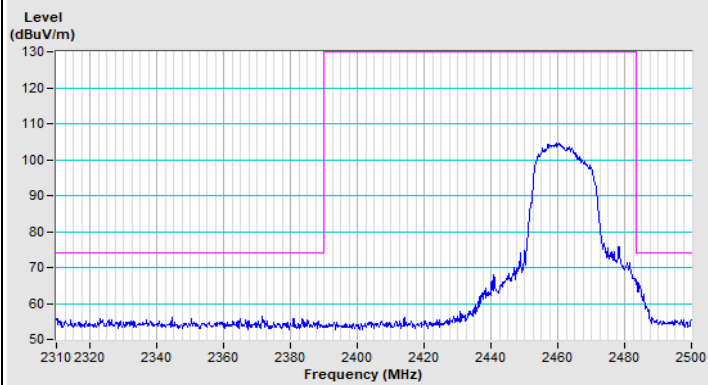


Vertical (Peak)

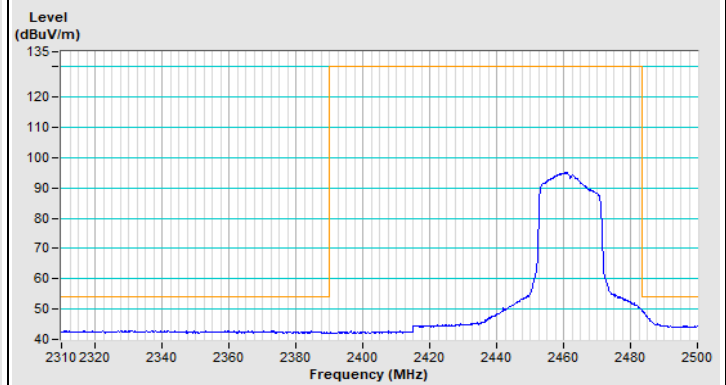


Vertical (Average)

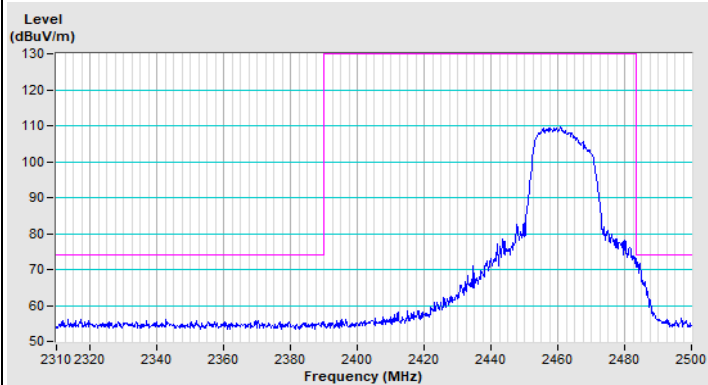
VHT20 Channel 11



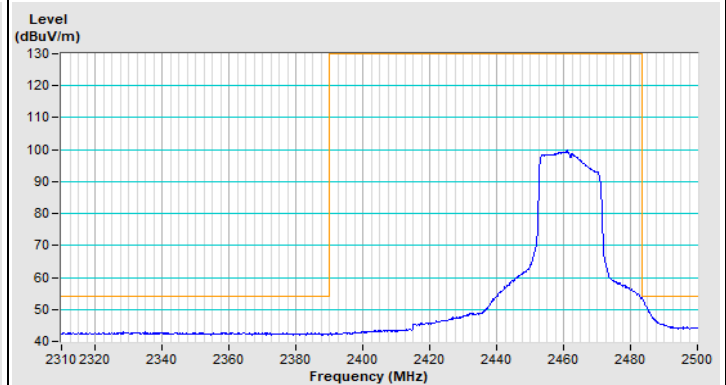
Horizontal (Peak)



Horizontal (Average)

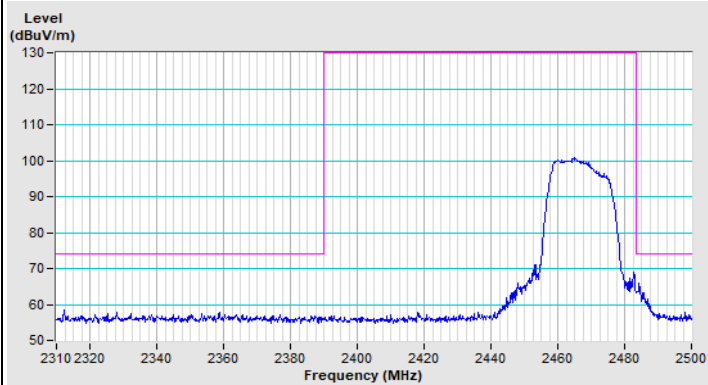


Vertical (Peak)

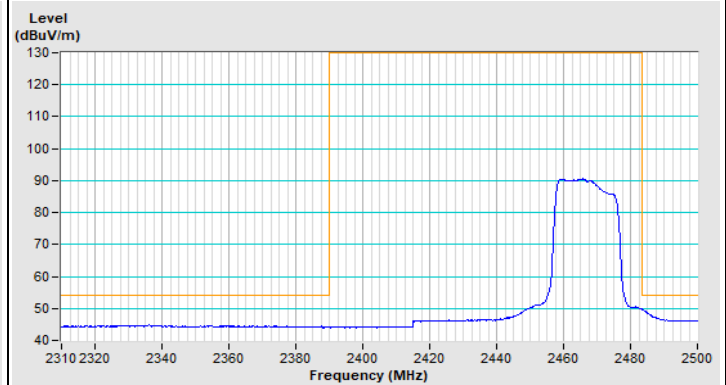


Vertical (Average)

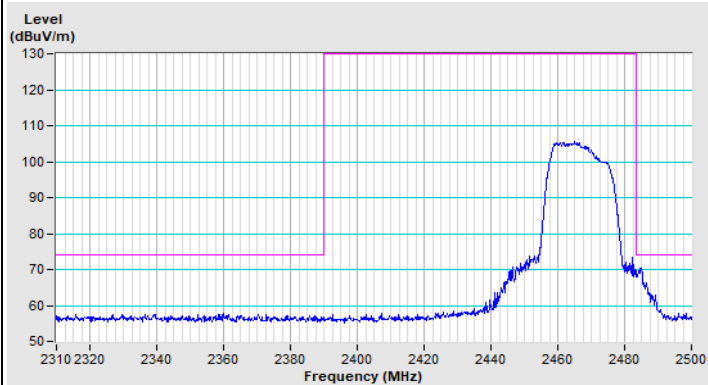
VHT20 Channel 12



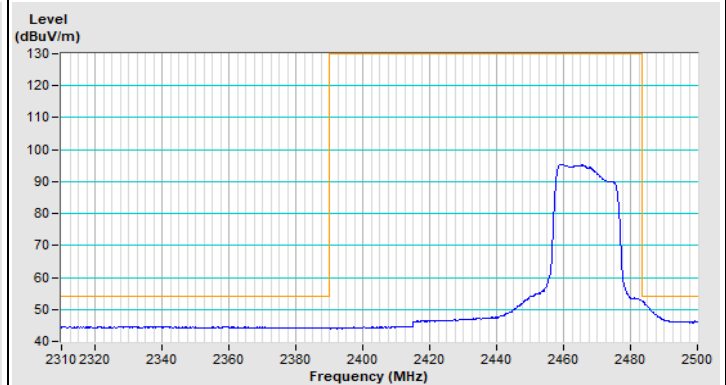
Horizontal (Peak)



Horizontal (Average)

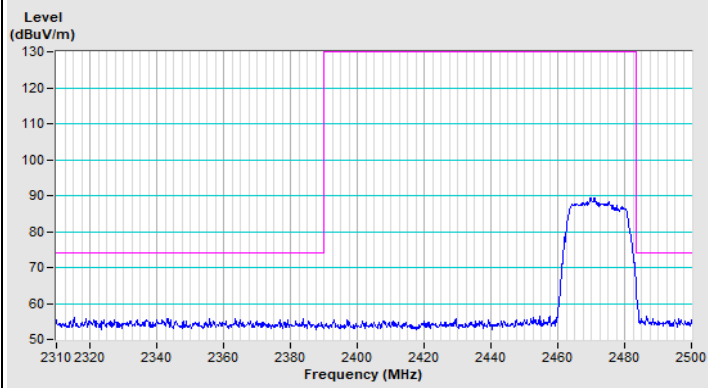


Vertical (Peak)

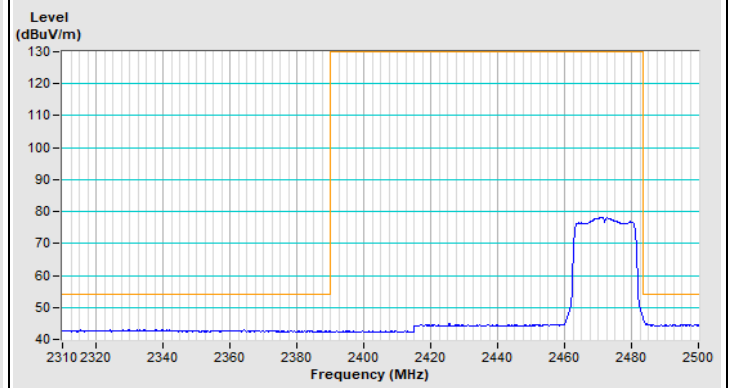


Vertical (Average)

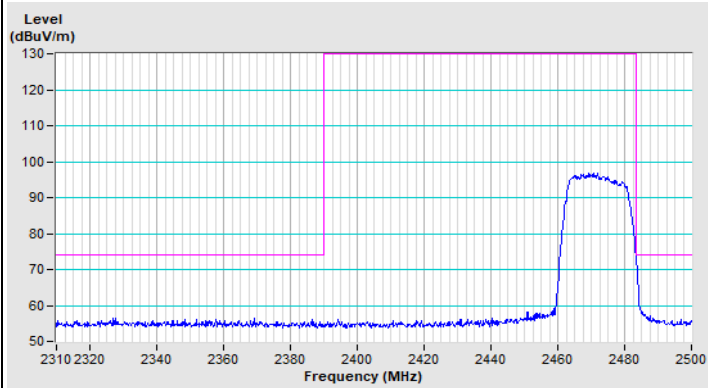
VHT20 Channel 13



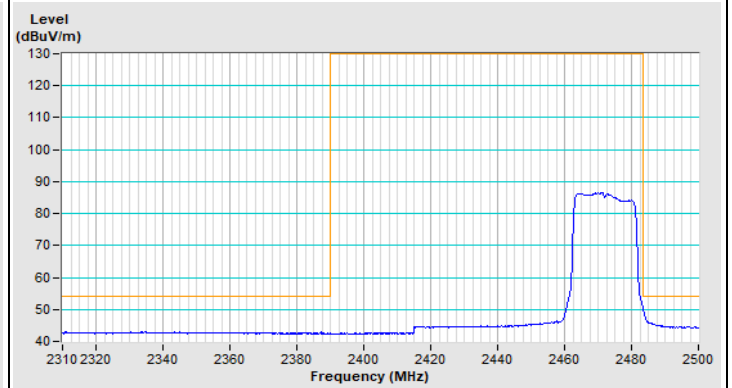
Horizontal (Peak)



Horizontal (Average)



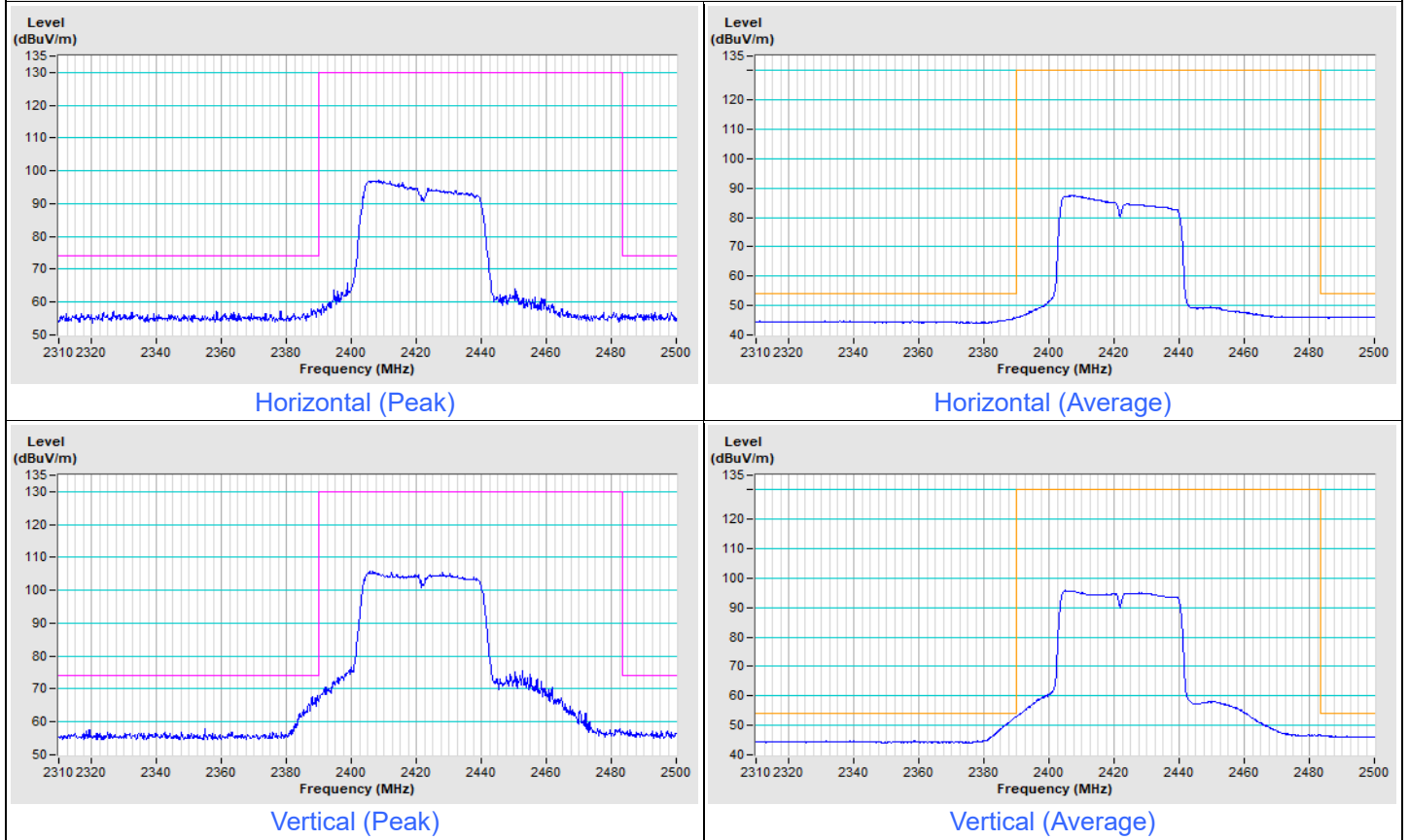
Vertical (Peak)



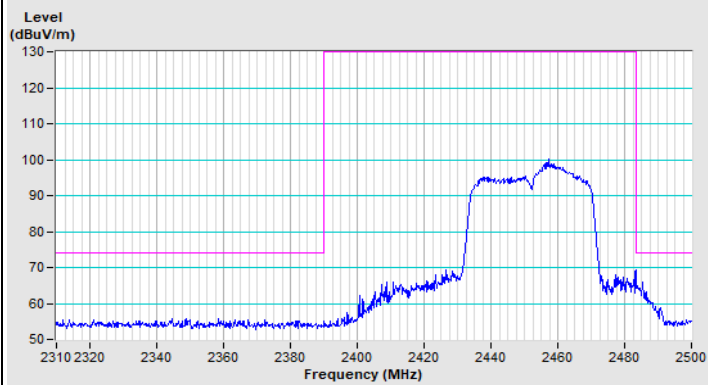
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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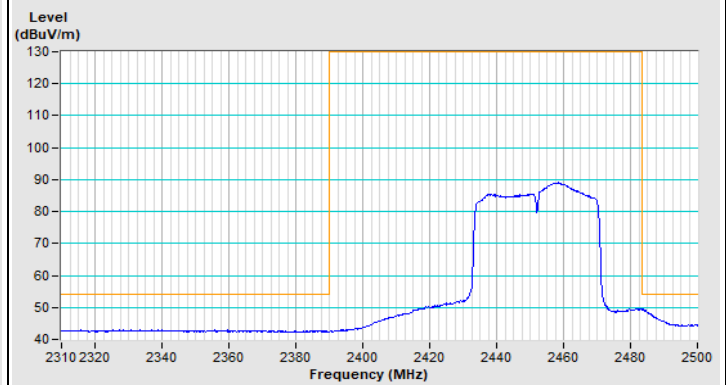
VHT40 Channel 3



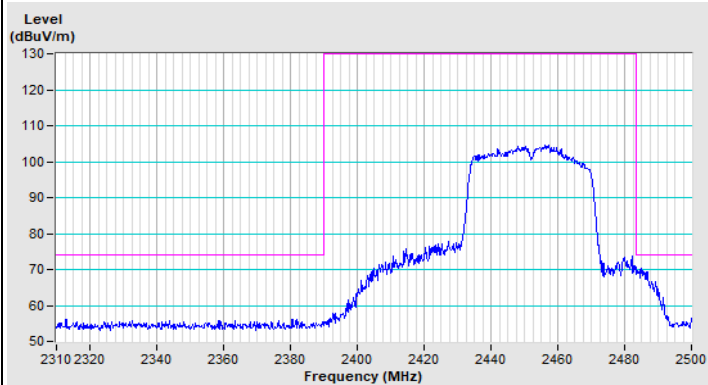
VHT40 Channel 9



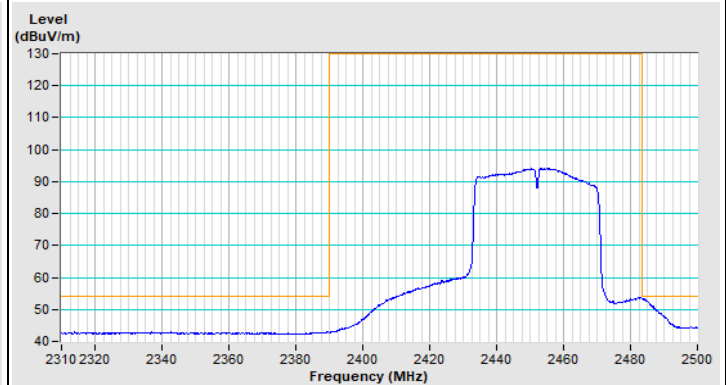
Horizontal (Peak)



Horizontal (Average)

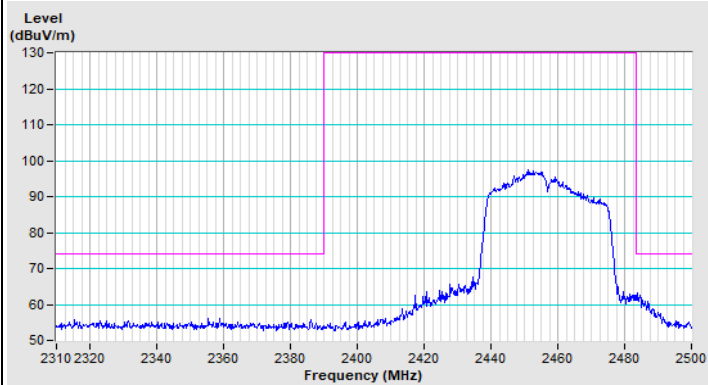


Vertical (Peak)

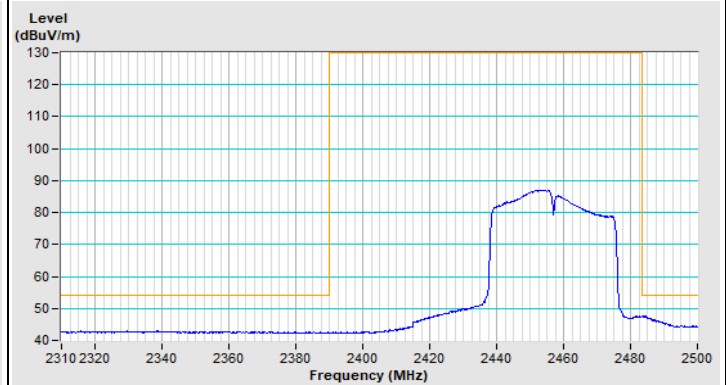


Vertical (Average)

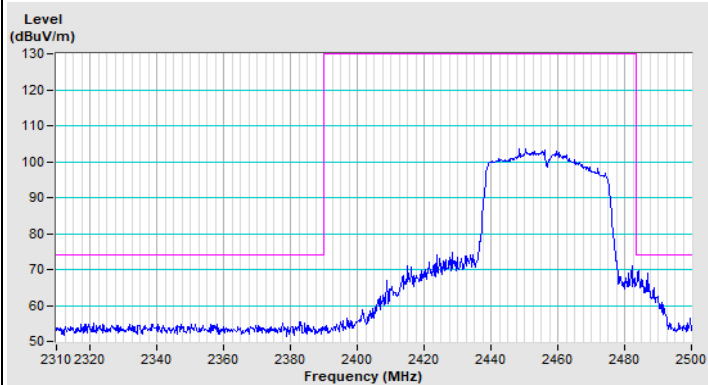
VHT40 Channel 10



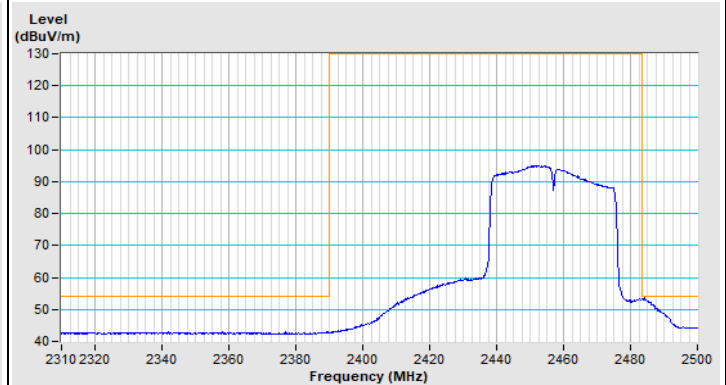
Horizontal (Peak)



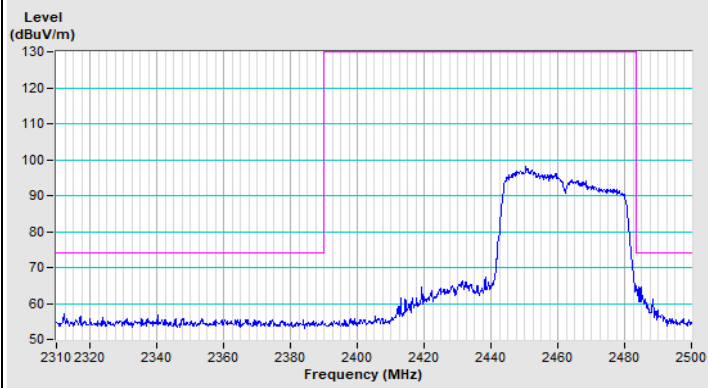
Horizontal (Average)



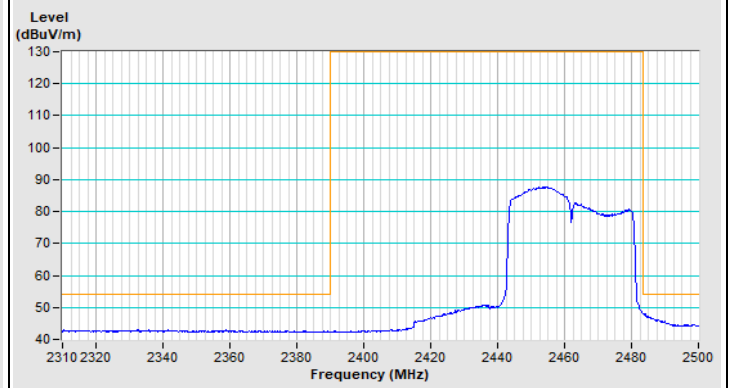
Vertical (Peak)



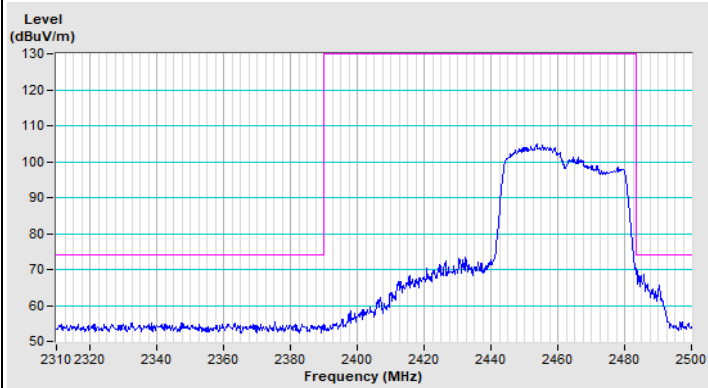
Vertical (Average)

VHT40 Channel 11

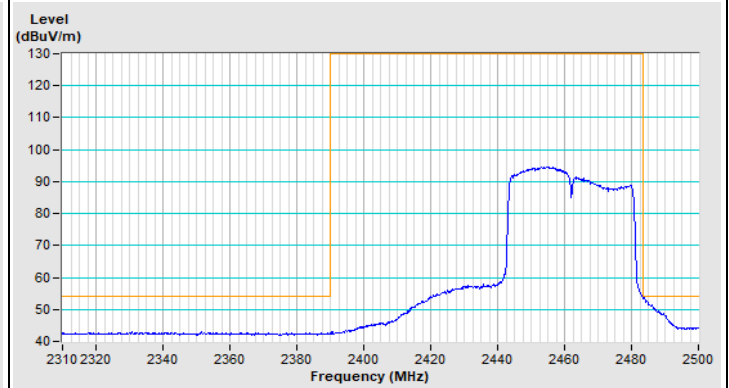
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

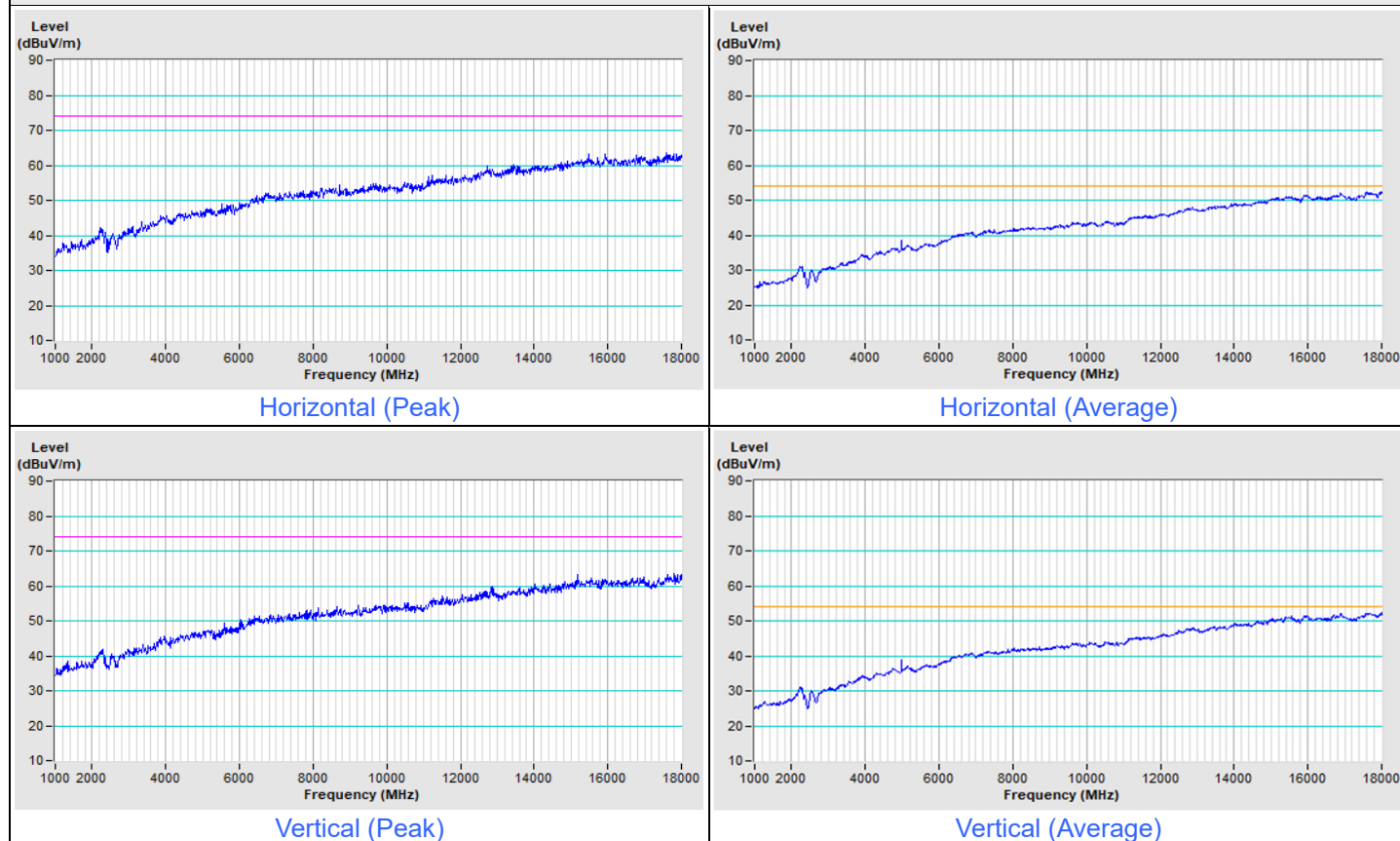


Vertical (Average)

Plot of Other emissions

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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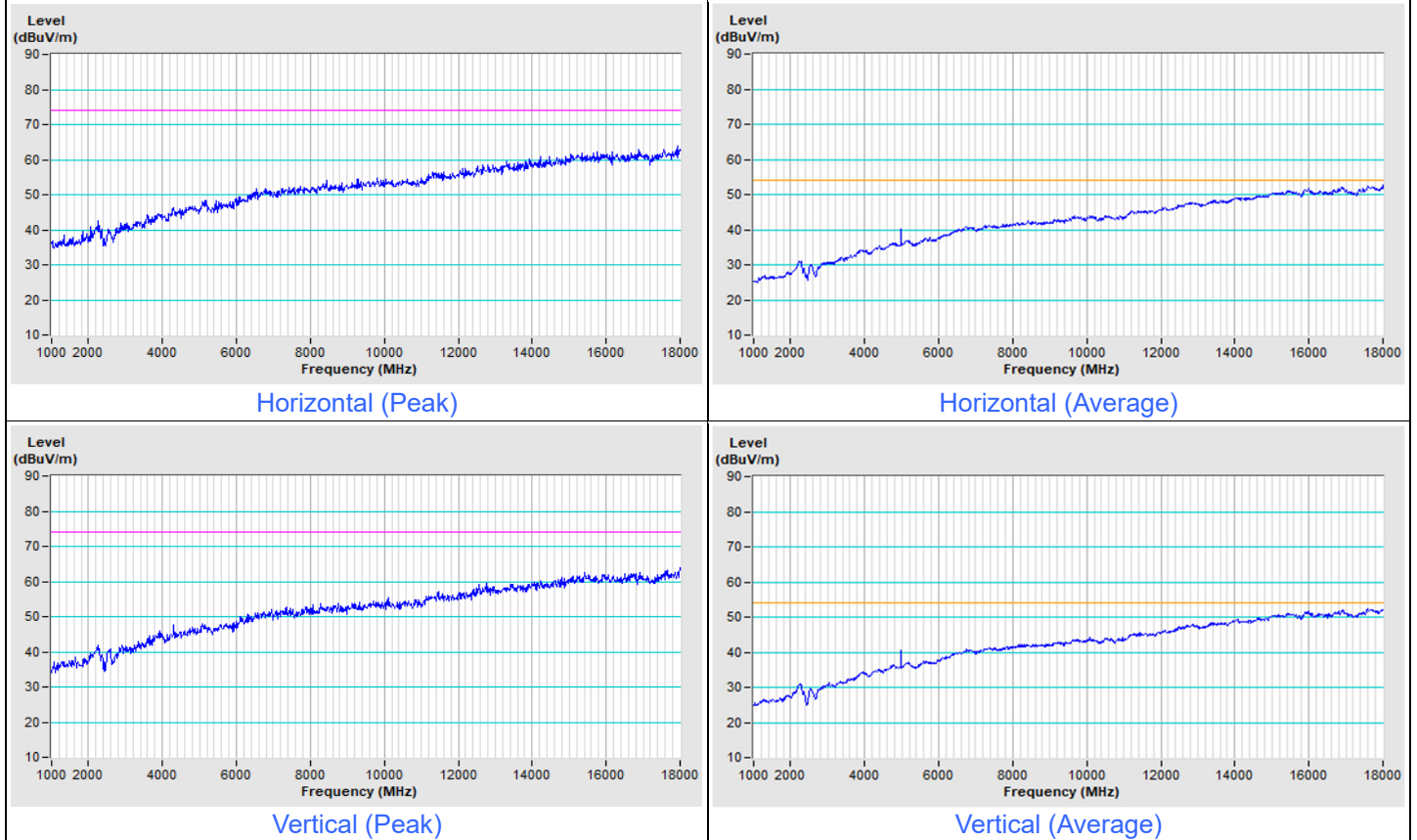
802.11b Channel 12



Note: For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=RMS
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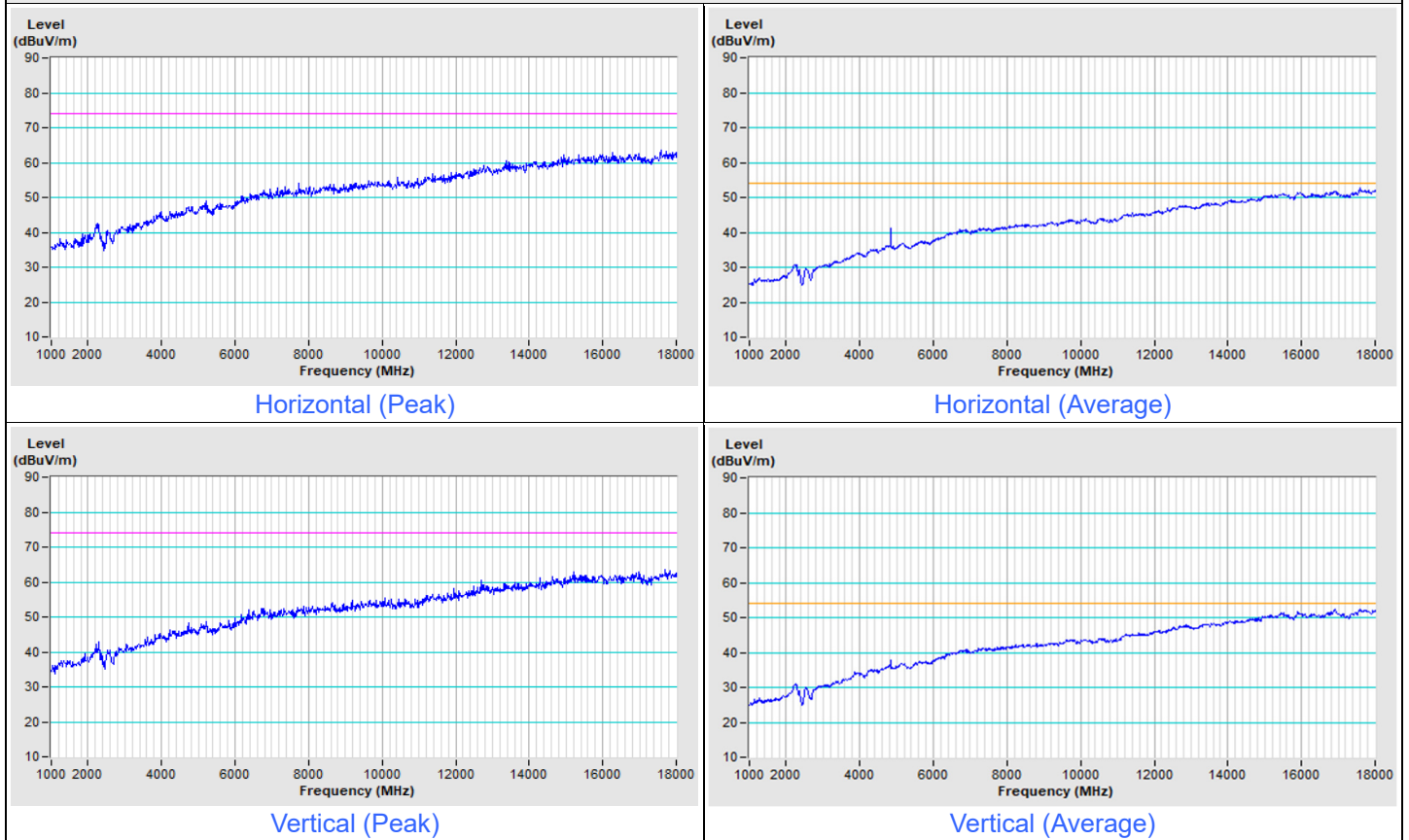
802.11g Channel 11



Note: For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=RMS
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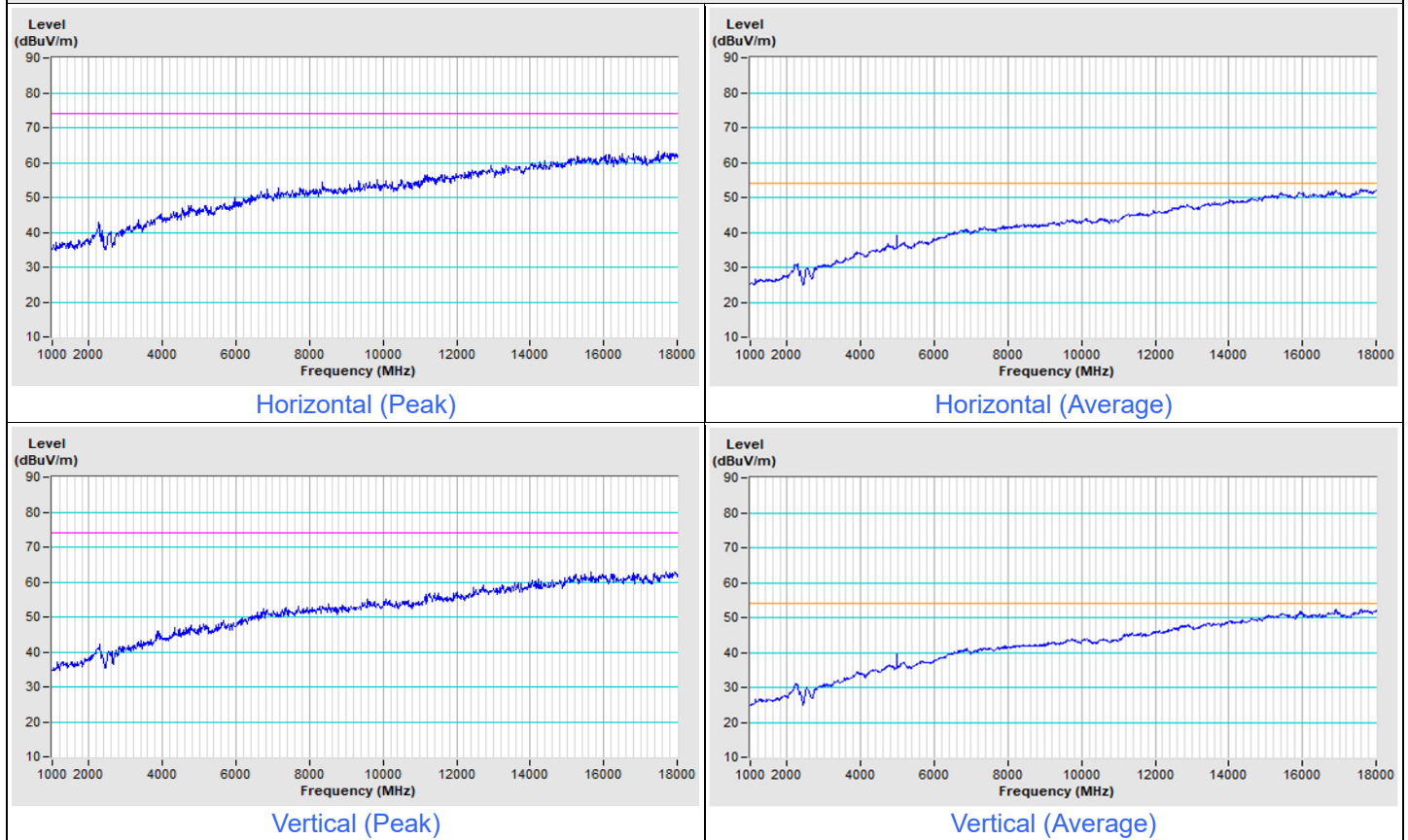
VHT20 Channel 1



Note: For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=RMS
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VHT40 Channel 10



Note: For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.

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.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

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Fax: 886-3-6668323

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Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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