

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCIC-WTW-P25040167

FCC ID: U8G-P1AX33

Product: Peplink Pepwave Wireless Product

Brand:  **PEPWAVE**

Model No.: AP One Flex, APO-FLX (refer to item 3.1 for more details)

Received Date: 2025/4/10

Test Date: 2025/6/23 ~ 2025/8/27

Issued Date: 2025/9/24

Applicant: PISMO LABS TECHNOLOGY LIMITED

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FCC Registration / 788550 / TW0003

Designation Number: 281270 / TW0032

Approved by:



Jeremy Lin / Project Engineer

, Date:

2025/9/24

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Prepared by : Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCIC-WTW-P25040167	Original release.	2025/9/24

1 Certificate

Product: Peplink Pepwave Wireless Product

Brand:  **PEPWAVE**

Test Model: AP One Flex, APO-FLX (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: PISMO LABS TECHNOLOGY LIMITED

Test Date: 2025/6/23 ~ 2025/8/27

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
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 -10.28 dB at 0.50200 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.3 dB at 244.37 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.0 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connectors are ipex(MHF) and RP-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:

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	Peplink Pepwave Wireless Product
Brand	
Test Model	AP One Flex, APO-FLX
Model Difference	Refer to Note as below
Status of EUT	Engineering sample
Power Supply Rating	56V from 802.3 bt PoE
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20):11 802.11n (HT40), VHT40, 802.11ax (HE40):7
Output Power	168.286 mW (22.26 dBm)

Note:

1. All models are listed as below.

Brand	Model	Difference
	AP One Flex	marketing purpose.
	APO-FLX	

2. There are WLAN (2.4 GHz & 5 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

Combination	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.

* WLAN 2.4GHz and WLAN 5G technologies can transmit simultaneously, but they use time-slot technology to achieve this.

4. 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
Internal_WiFi_1-1 / WiFi_1-2	0	Whayu	C1980-510149-A	9.53	2.4~2.4835GHz	Patch	ipex(MHF)
				10.44	5.15~5.25GHz		
				9.8	5.725~5.85GHz		
	1			9.65	2.4~2.4835GHz		
				11.05	5.15~5.25GHz		
				9.74	5.725~5.85GHz		
External_WiFi_1-1 / WiFi_1-2	0/1	YUAN CHEN	ACA-0040-6G1A1-A10	3.15	2.4~2.4835GHz	Omni-directional	RP-SMA
				3.29	5.15~5.25GHz		
				4.76	5.725~5.85GHz		

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

Note: When the EUT is installed in an outdoor area, the maximum antenna gain is more than 30 degrees from the horizon as shown in the Internal maximum gain table above.

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
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz). Therefore, the investigated worst case is the representative mode in test report.
- The EUT does not use channel puncturing and bandwidth reduction.

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20):

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, 802.11ax (HE40):

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

Pre-Scan:	1. 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). 2. EUT With External antennas can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 3. EUT With Internal antennas can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. EUT With External antennas X-axis/ Y-axis/ Z-axis Worst Condition: X-axis 2. EUT With Internal antennas X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
Power Spectral Density	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
6 dB Bandwidth / Conducted Out of Band Emissions	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	A, B	802.11b	CDD	11	DBPSK	1Mb/s
Unwanted Emissions below 1 GHz	A, B	802.11b	CDD	11	DBPSK	1Mb/s
Unwanted Emissions above 1 GHz	A, B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
EUT Configure Mode:	A	External antennas				
	B	Internal antennas				

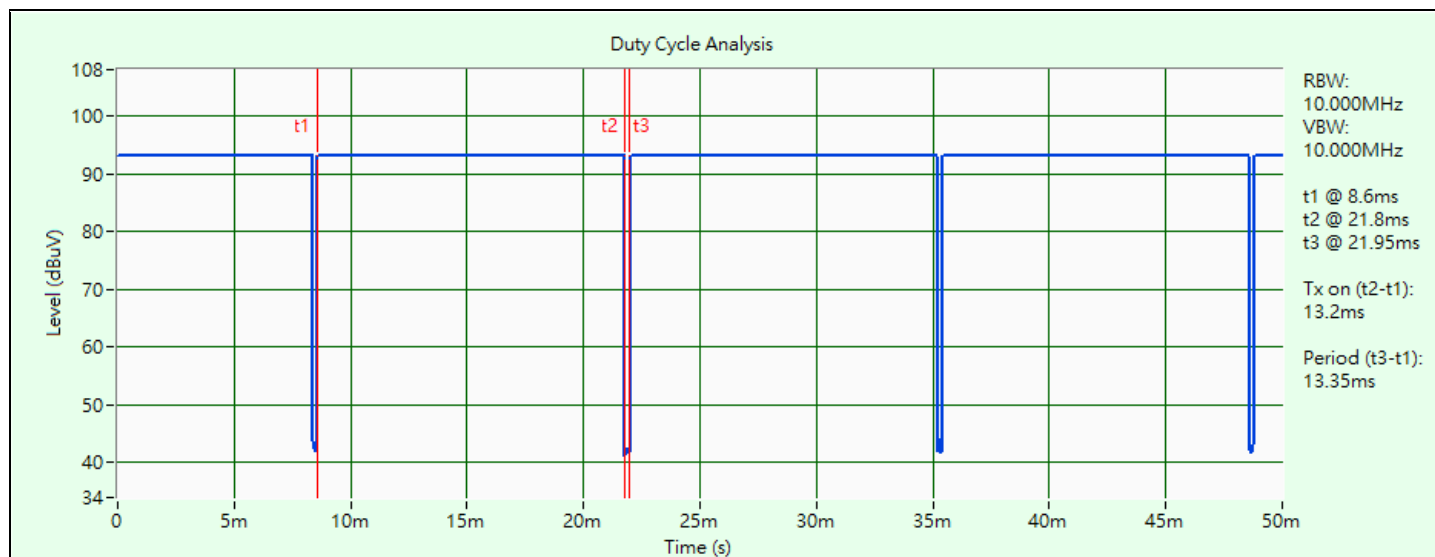
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 13.2 ms / 13.35 ms x 100% = 98.9%

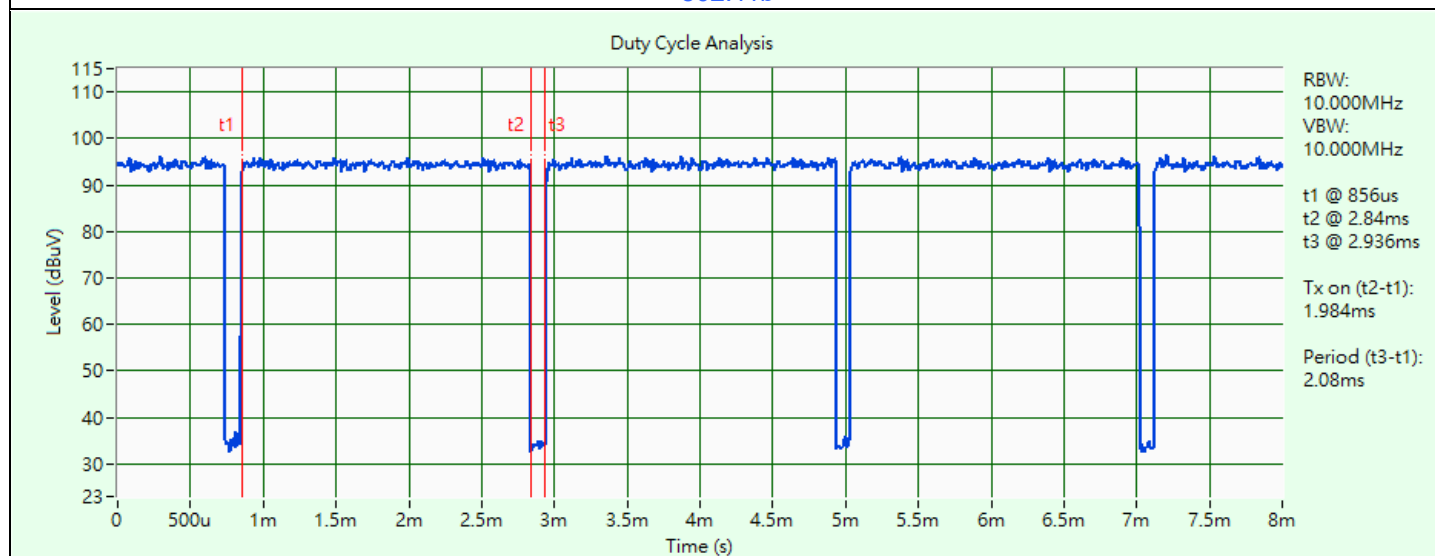
802.11g: Duty cycle = 1.984 ms / 2.08 ms x 100% = 95.4%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.21$ dB

802.11ax (HE20): Duty cycle = 5.46 ms / 5.66 ms x 100% = 96.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16$ dB

802.11ax (HE40): Duty cycle = 5.46 ms / 5.66 ms x 100% = 96.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16$ dB

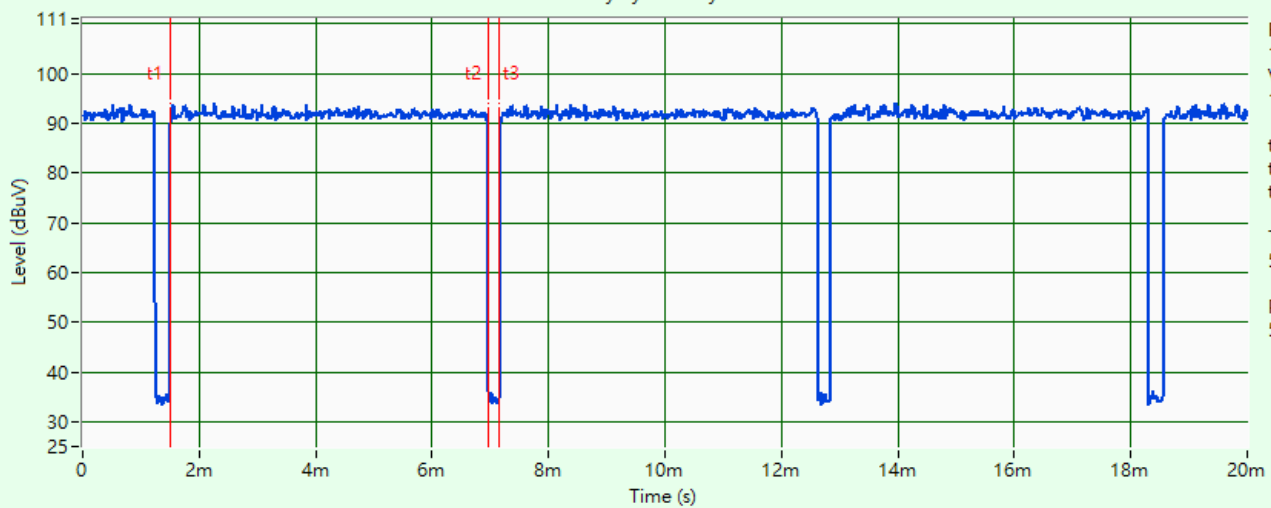


802.11b



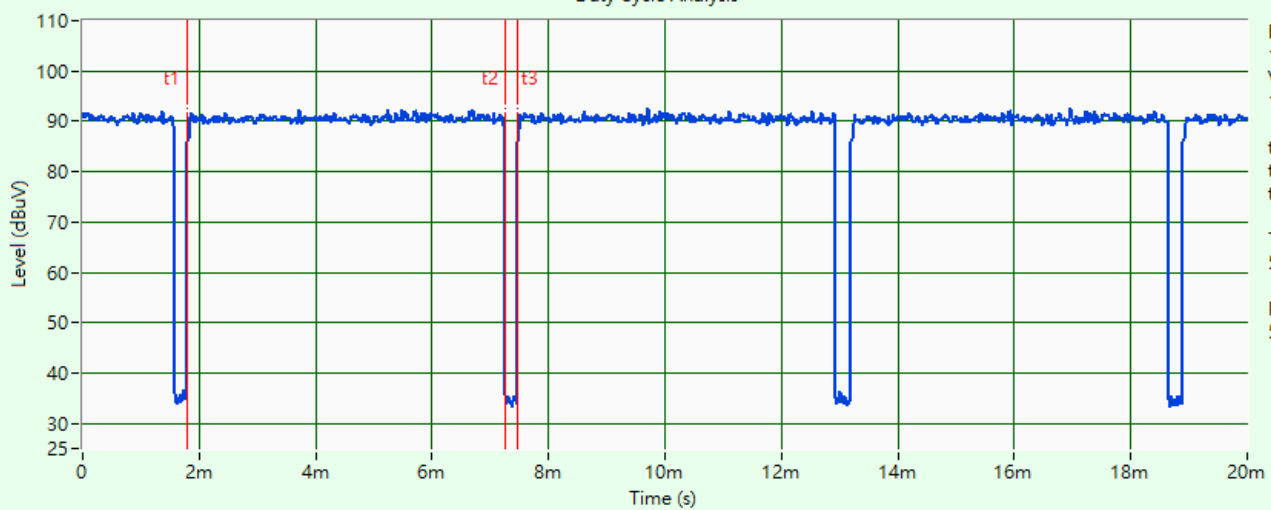
802.11g

Duty Cycle Analysis



802.11ax (HE20)

Duty Cycle Analysis



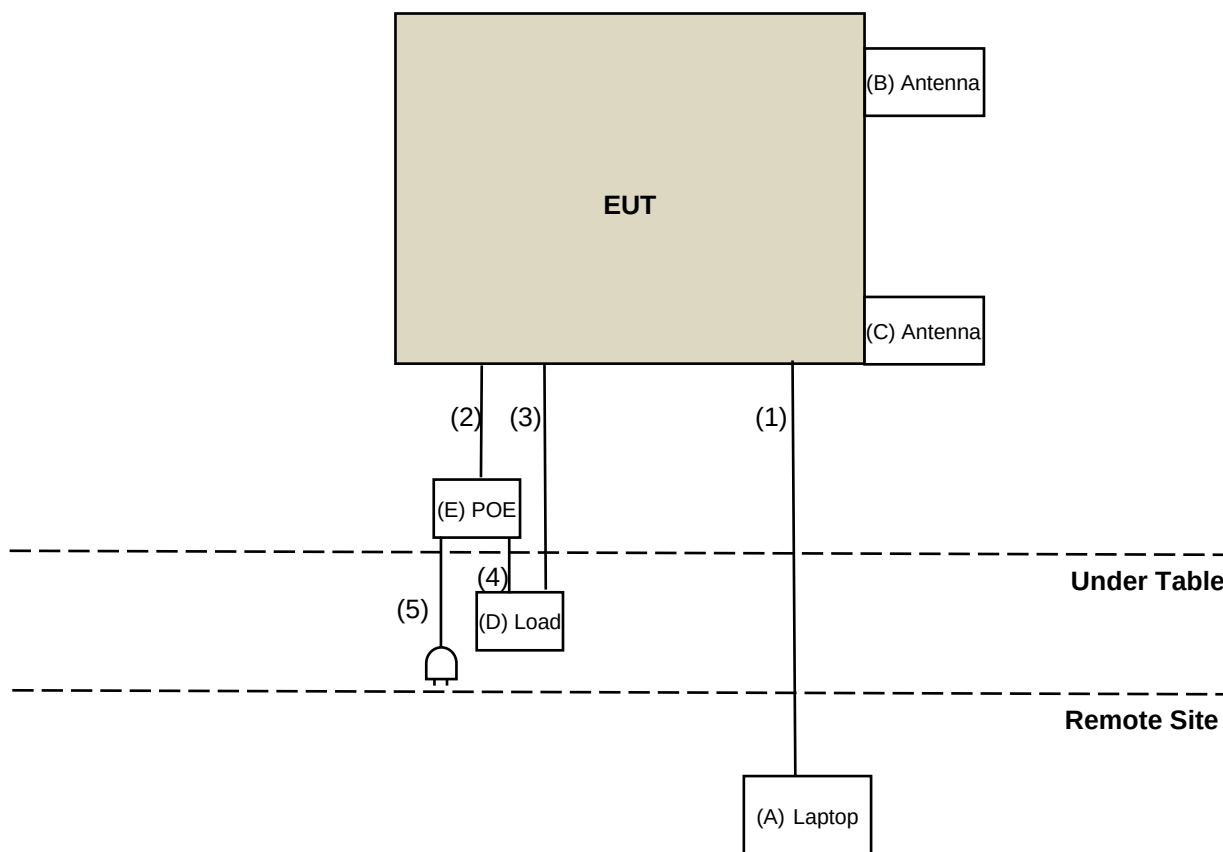
802.11ax (HE40)

3.6 Test Program Used and Operation Descriptions

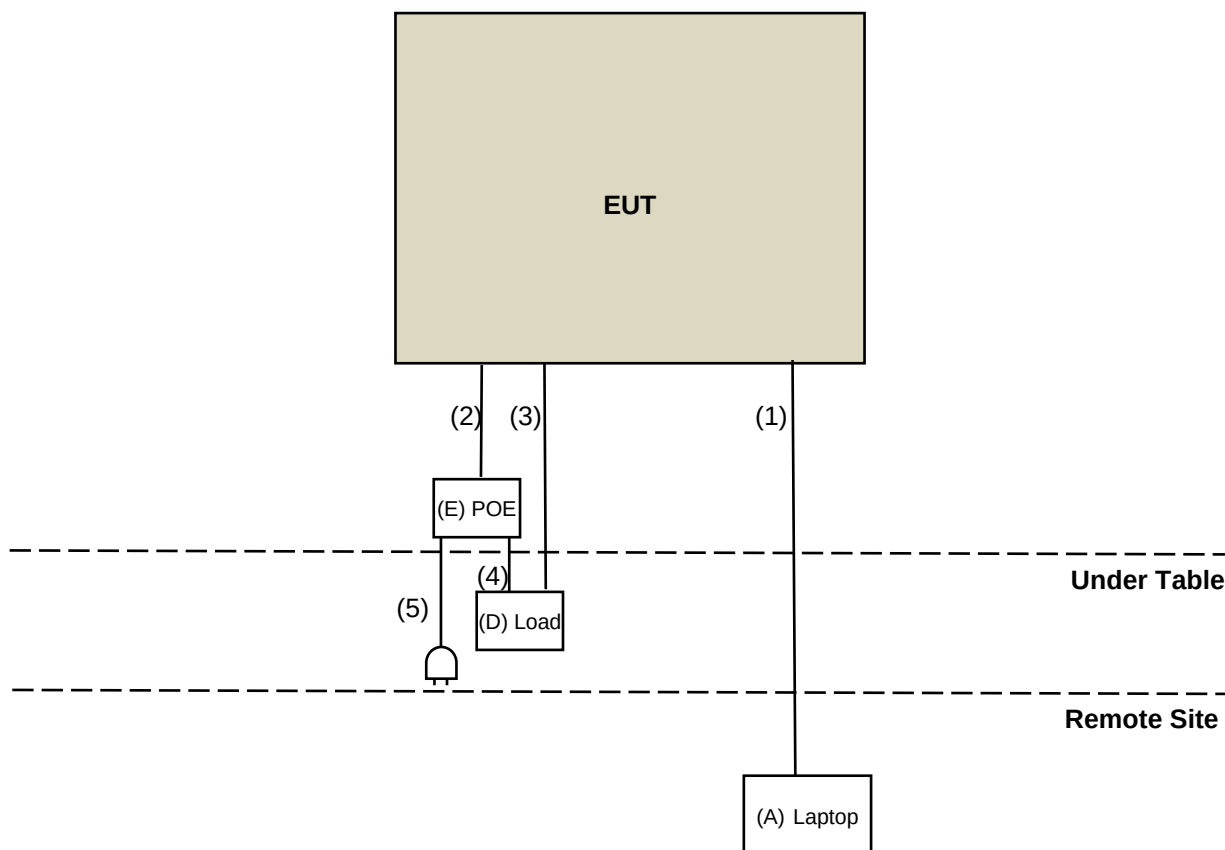
Controlling software QSPR has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	X270	PC0SWWZ1	N/A	Supplied by applicant
B	Antenna	YUAN CHEN	ACA-0040-6G1A1-A10	N/A	N/A	Supplied by applicant
C	Antenna	YUAN CHEN	ACA-0040-6G1A1-A10	N/A	N/A	Supplied by applicant
D	Load	N/A	N/A	N/A	N/A	Provided by Lab
E	POE	Phihong	POE31U-1AT	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	1	6	N	0	Provided by Lab
2	LAN Cable	1	1.5	N	0	Provided by Lab
3	LAN Cable	1	1.5	N	0	Provided by Lab
4	LAN Cable	1	1.5	N	0	Provided by Lab
5	Power cord	1	1.8	N	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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
USB Power Sensor Anritsu	MA24408A	12994	2024/12/4	2025/12/3

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/7/25

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	FSW43	101582	2025/4/15	2026/4/14
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: 2025/7/25

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
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
Fixed Attenuator STI	BNC5W10dB	PAD-COND2-01	2024/8/25	2025/8/24
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/6/23

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
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: 2025/8/27

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: 2025/8/15 ~ 2025/8/20

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 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

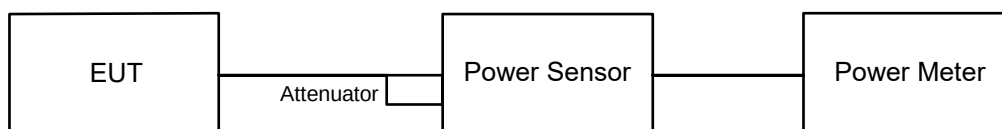
Notes:

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



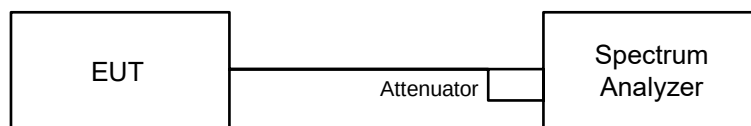
6.1.2 Test Procedure

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



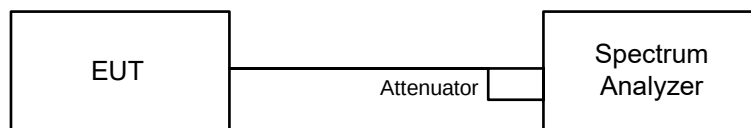
6.2.2 Test Procedure

- 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

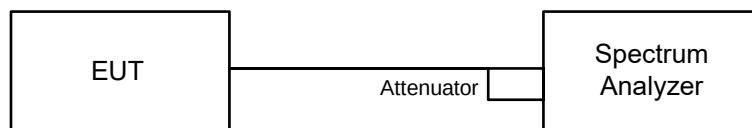


6.3.2 Test Procedure

- 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

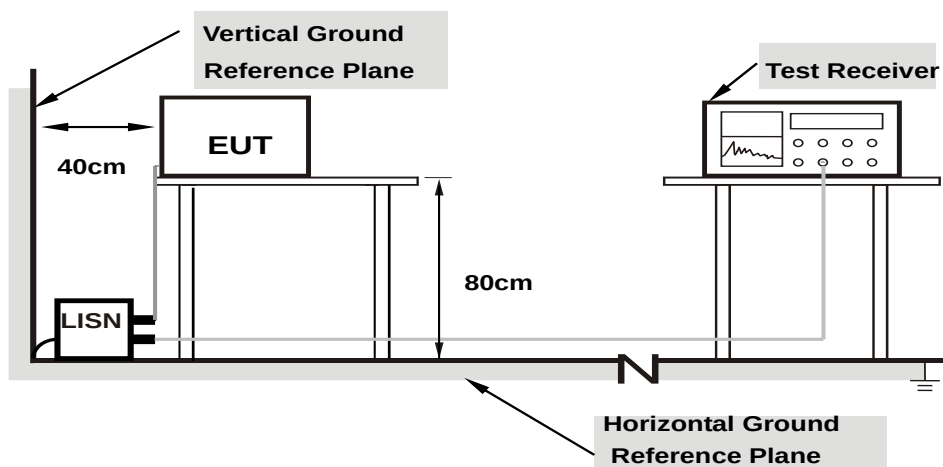
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use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

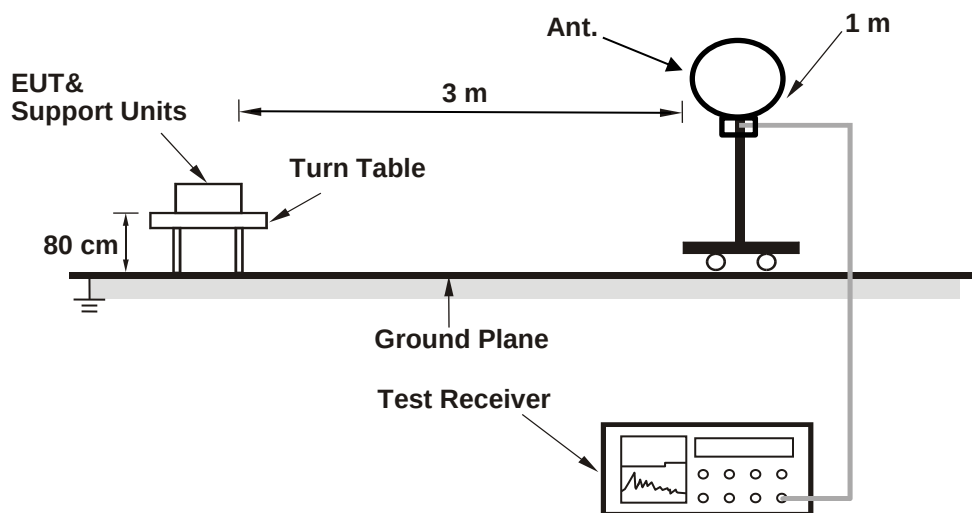
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

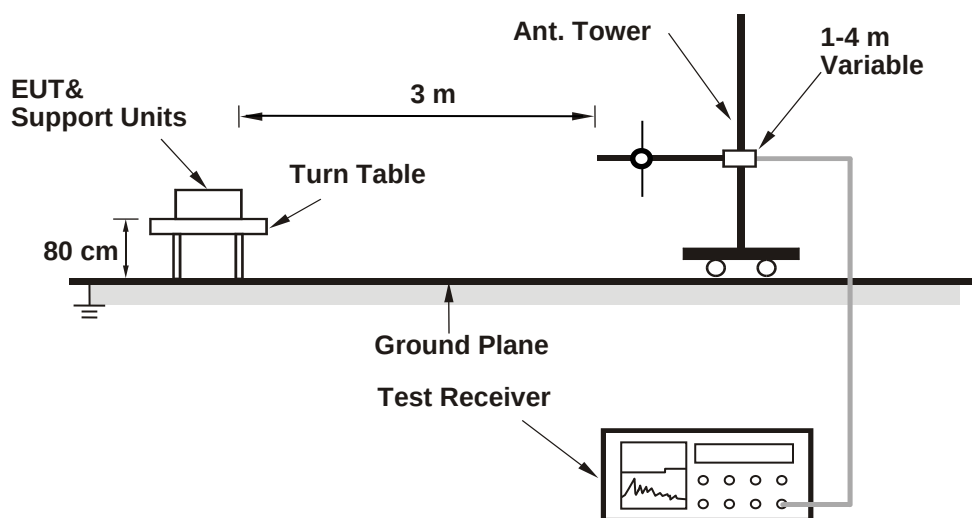
6.6 Unwanted Emissions below 1 GHz

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

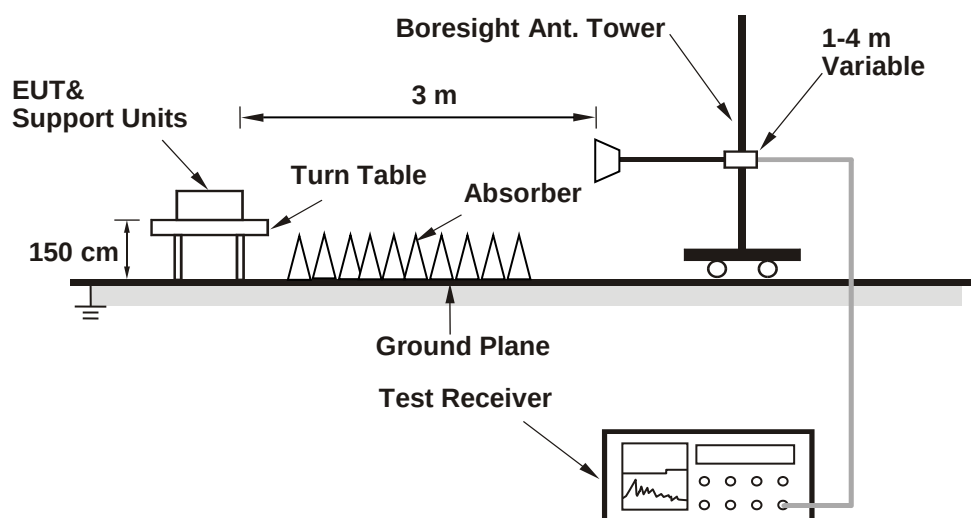
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Karl Lee
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802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	18.81	18.44	145.856	21.64	26.35	Pass
6	2437	18.31	18.17	133.379	21.25	26.35	Pass
11	2462	19.29	19.21	168.286	22.26	26.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.65-6) = 26.35$ dBm.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	18.21	17.72	125.378	20.98	26.35	Pass
6	2437	18.02	17.65	121.597	20.85	26.35	Pass
11	2462	16.18	15.94	80.76	19.07	26.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.65-6) = 26.35$ dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.24	15.79	80.004	19.03	26.35	Pass
6	2437	16.19	15.81	79.698	19.01	26.35	Pass
11	2462	15.77	15.42	72.591	18.61	26.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.65-6) = 26.35$ dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	15.92	15.23	72.427	18.60	26.35	Pass
6	2437	15.99	15.67	76.617	18.84	26.35	Pass
9	2452	14.40	14.03	52.835	17.23	26.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.65 - 6) = 26.35$ dBm.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Karl Lee
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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	-10.40	-10.54	-7.46	1.4	Pass
6	2437	-10.98	-11.12	-8.04	1.4	Pass
11	2462	-9.09	-10.00	-6.51	1.4	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 12.6 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (12.6 - 6) = 1.4 \text{ dBm/3kHz}$.

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
		Chain 0	Chain 1					
1	2412	-13.14	-13.75	0.21	-10.42	-10.21	1.4	Pass
6	2437	-14.57	-14.58	0.21	-11.56	-11.35	1.4	Pass
11	2462	-16.56	-16.33	0.21	-13.43	-13.22	1.4	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 12.6 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (12.6 - 6) = 1.4 \text{ dBm/3kHz}$.

802.11ax (HE20)

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
		Chain 0	Chain 1					
1	2412	-19.07	-19.46	0.16	-16.25	-16.09	1.4	Pass
6	2437	-19.08	-18.49	0.16	-15.76	-15.60	1.4	Pass
11	2462	-19.28	-19.49	0.16	-16.37	-16.21	1.4	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 12.6 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (12.6 - 6) = 1.4 \text{ dBm/3kHz}$.

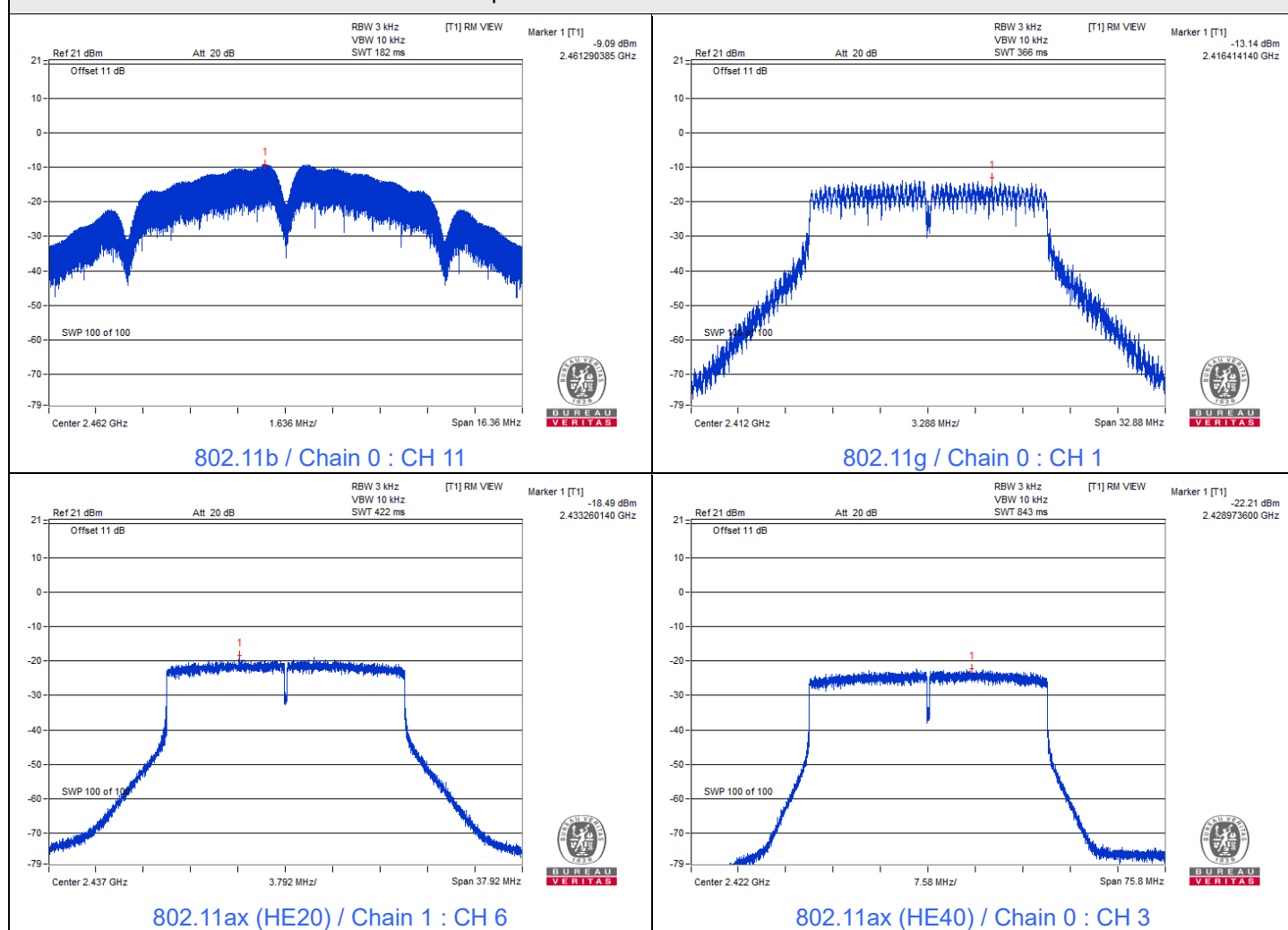
802.11ax (HE40)

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
		Chain 0	Chain 1					
3	2422	-12.95	-13.85	0.16	-10.37	-10.21	1.4	Pass
6	2437	-13.40	-13.33	0.16	-10.35	-10.19	1.4	Pass
9	2452	-15.03	-13.52	0.16	-11.20	-11.04	1.4	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 12.6 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (12.6 - 6) = 1.4 \text{ dBm/3kHz}$.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Karl Lee
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.21	8.20	0.5	Pass
6	2437	8.20	8.22	0.5	Pass
11	2462	8.18	8.21	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.44	16.50	0.5	Pass
6	2437	16.41	16.52	0.5	Pass
11	2462	16.44	16.49	0.5	Pass

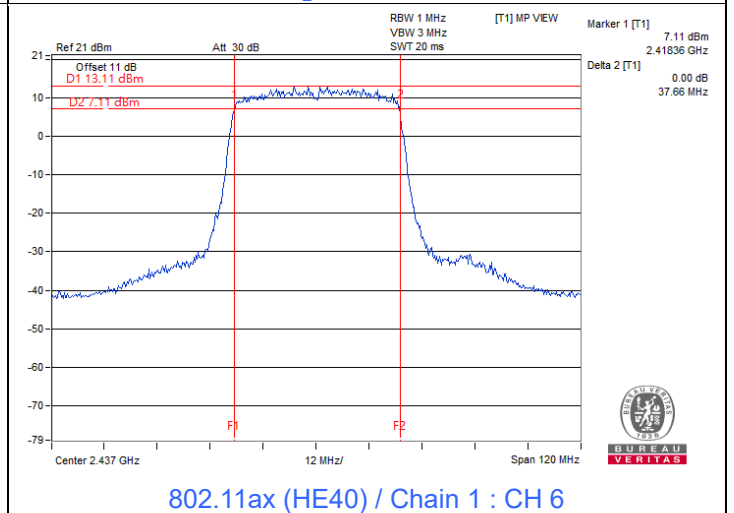
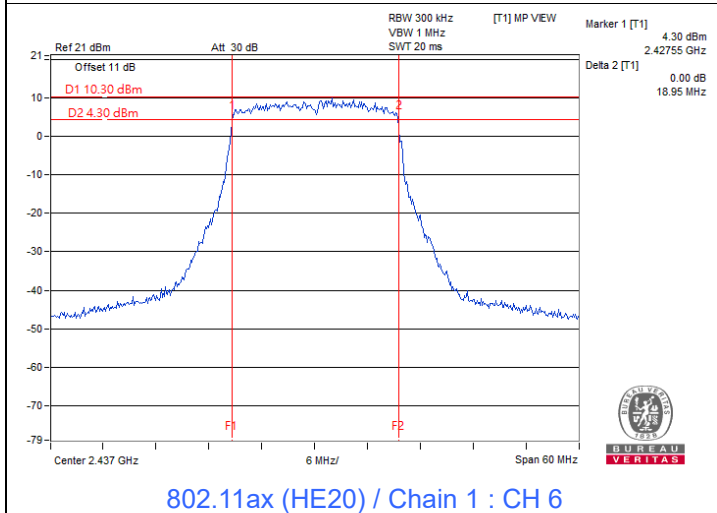
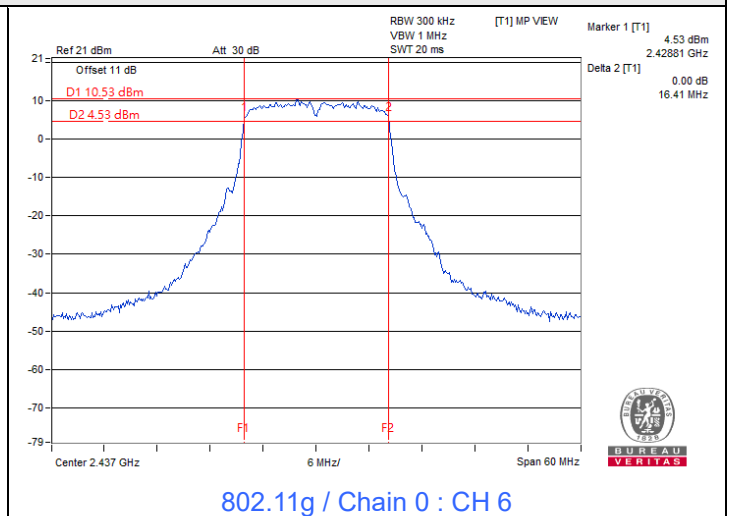
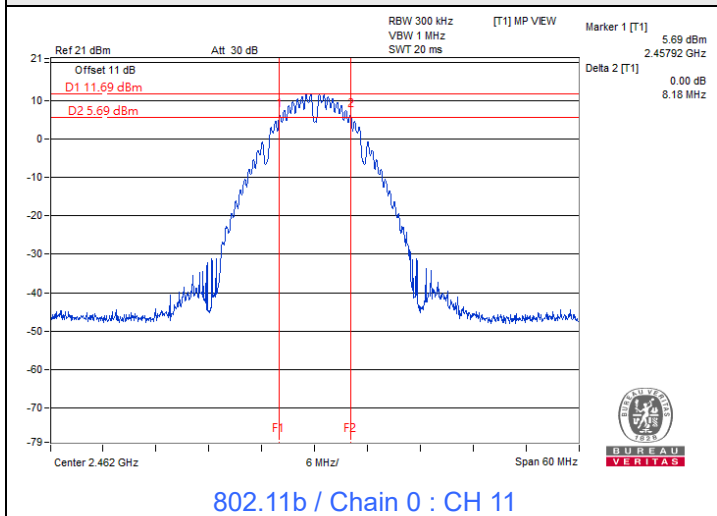
802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	19.05	19.01	0.5	Pass
6	2437	19.04	18.95	0.5	Pass
11	2462	19.12	19.09	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.90	37.85	0.5	Pass
6	2437	37.79	37.66	0.5	Pass
9	2452	37.68	37.70	0.5	Pass

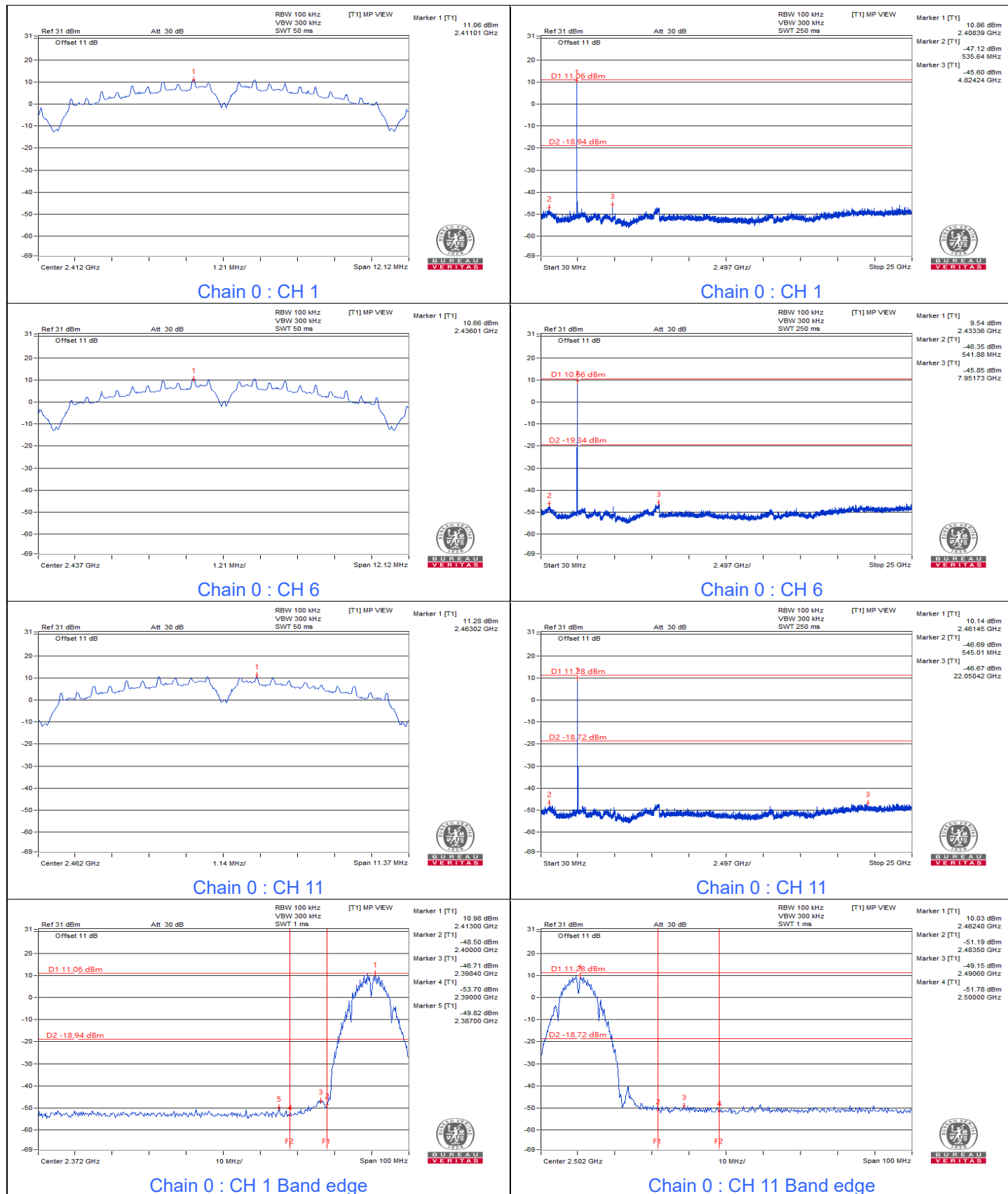
Spectrum Plot of Minimum Value

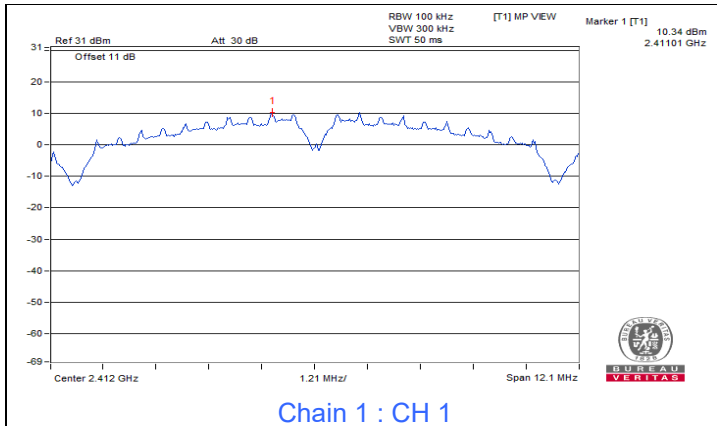


7.4 Conducted Out of Band Emissions

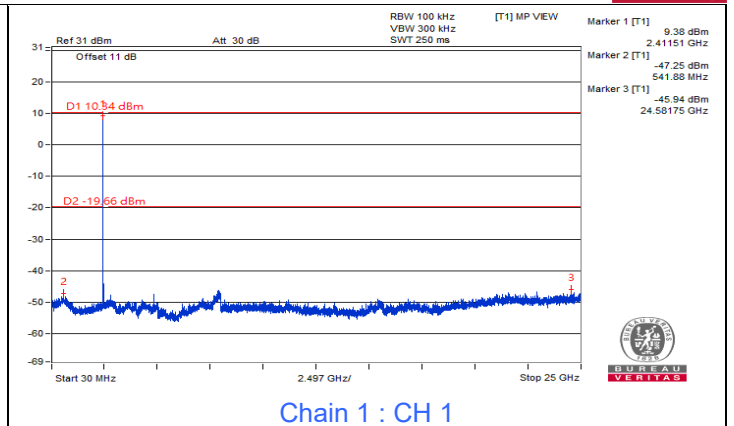
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Karl Lee
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802.11b

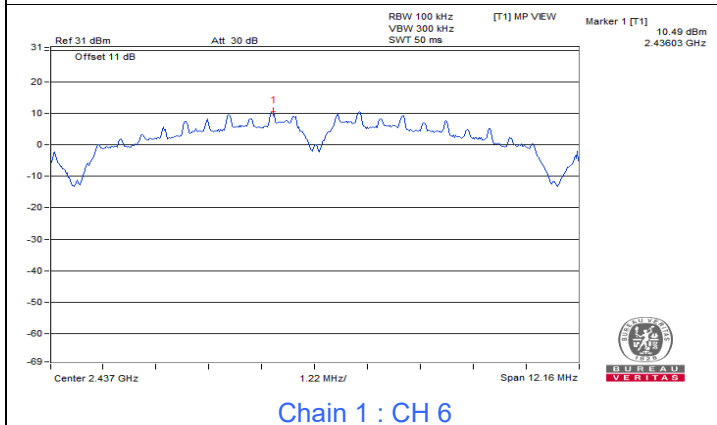




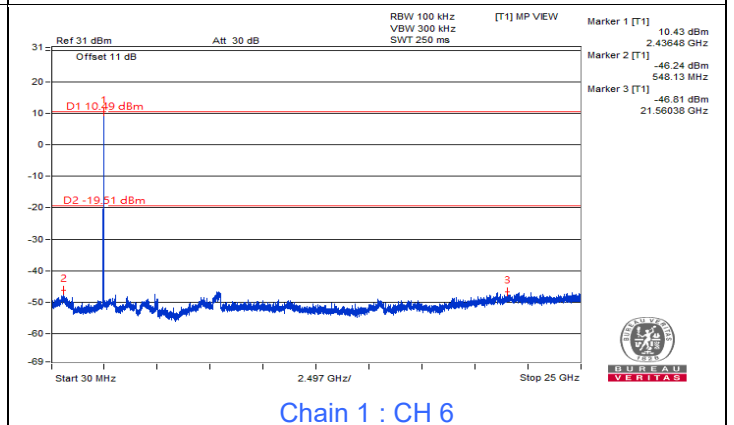
Chain 1 : CH 1



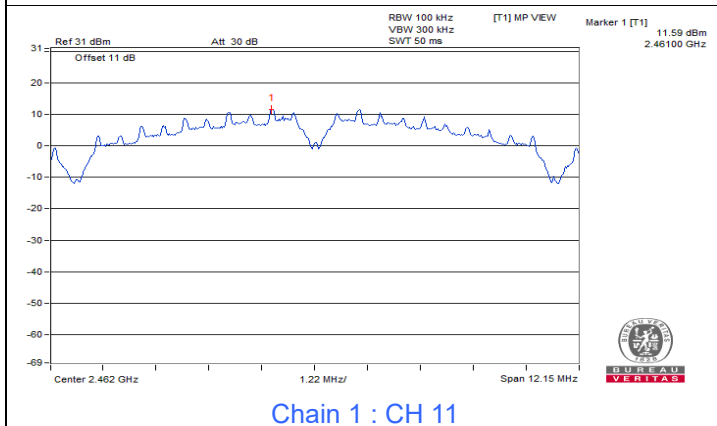
Chain 1 : CH 1



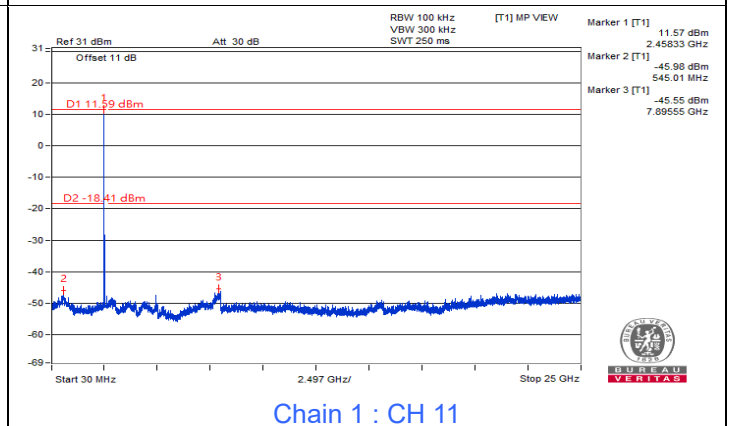
Chain 1 : CH 6



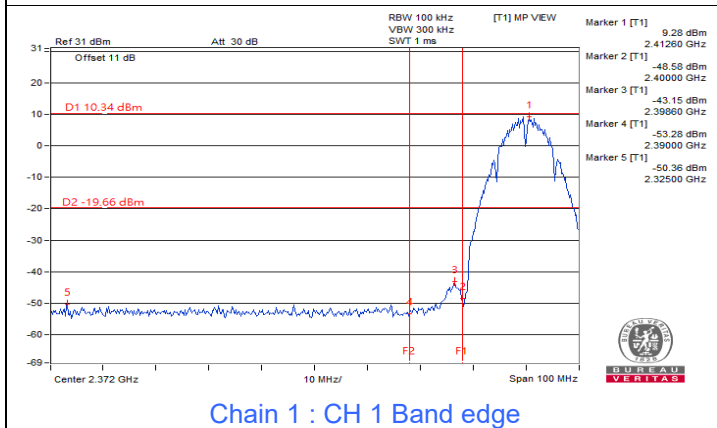
Chain 1 : CH 6



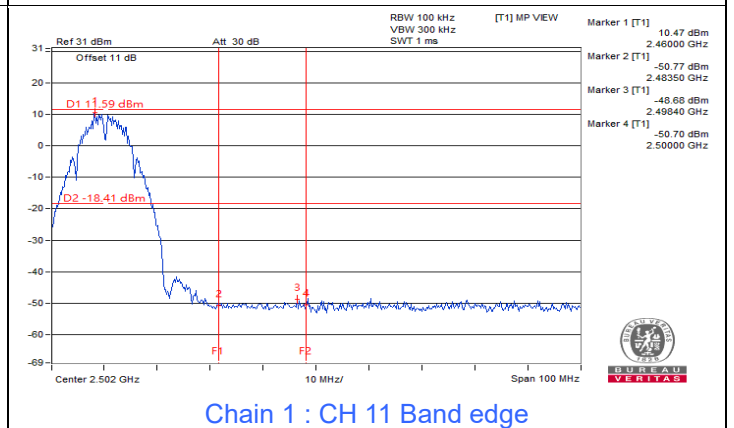
Chain 1 : CH 11



Chain 1 : CH 11

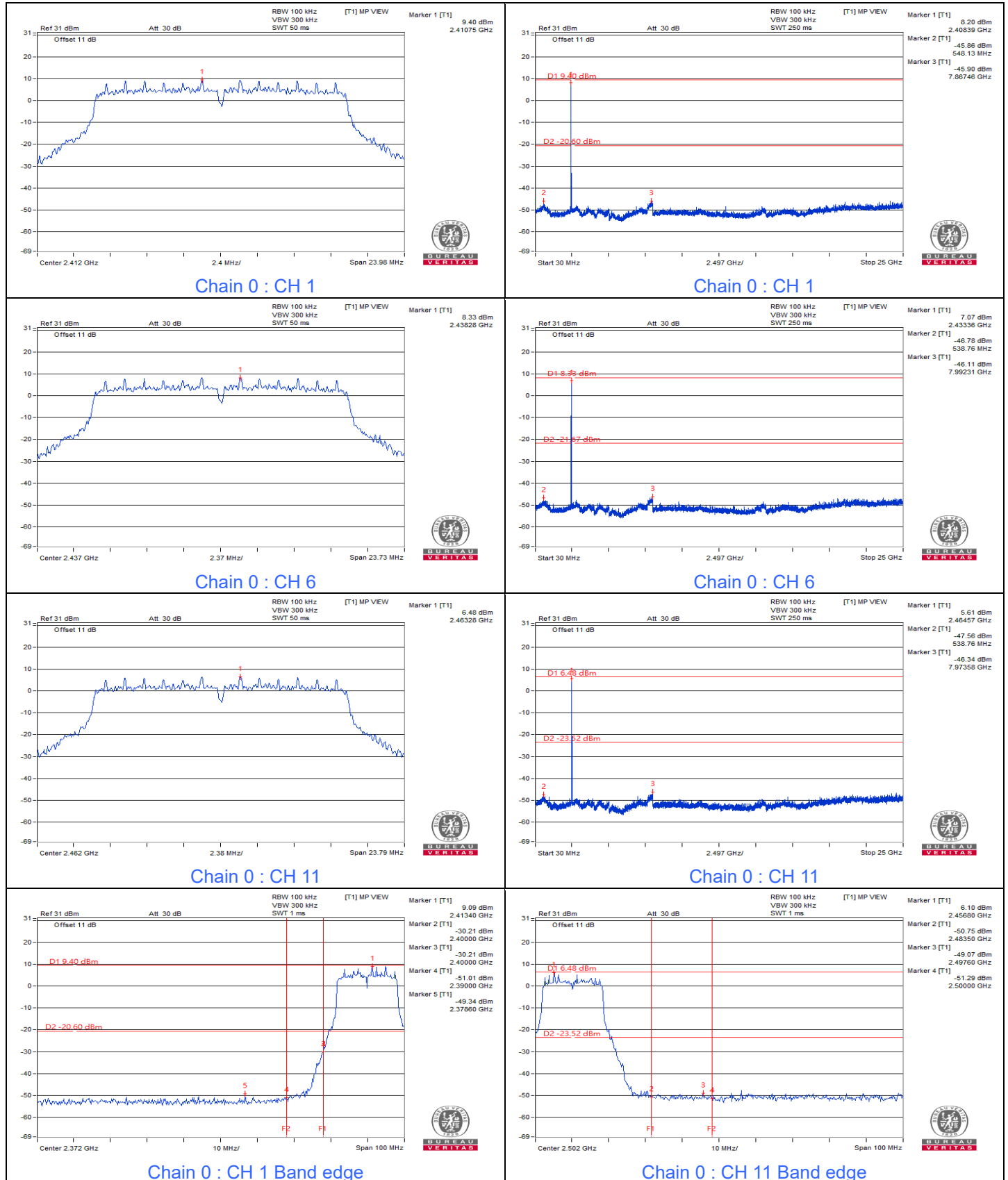


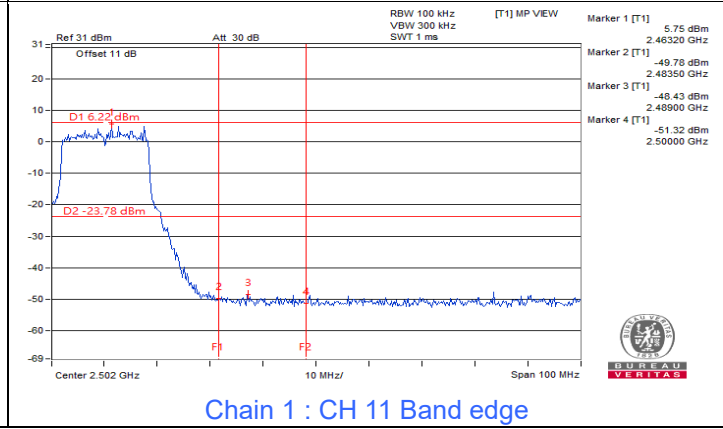
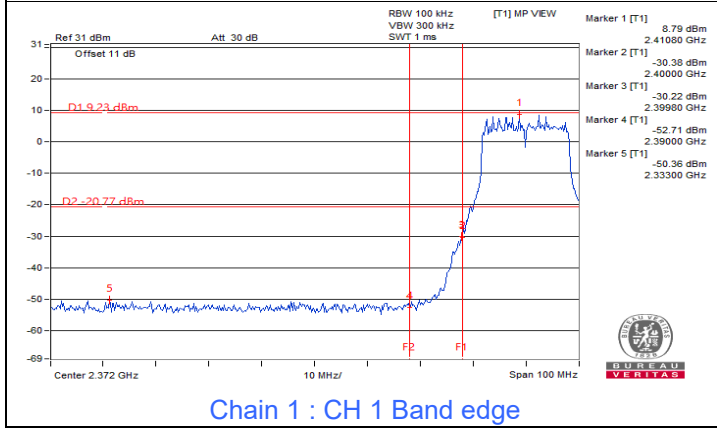
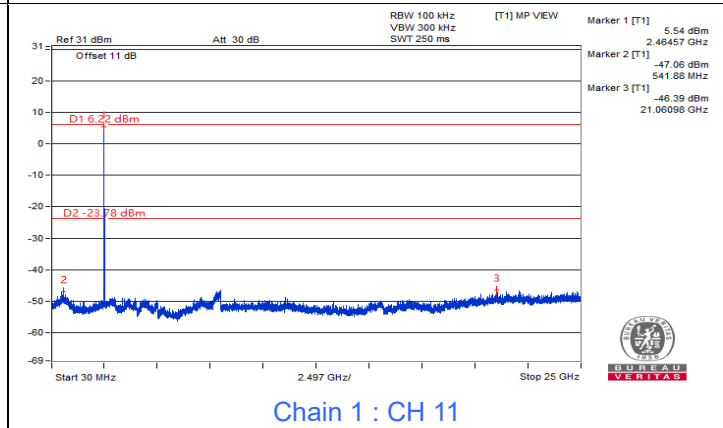
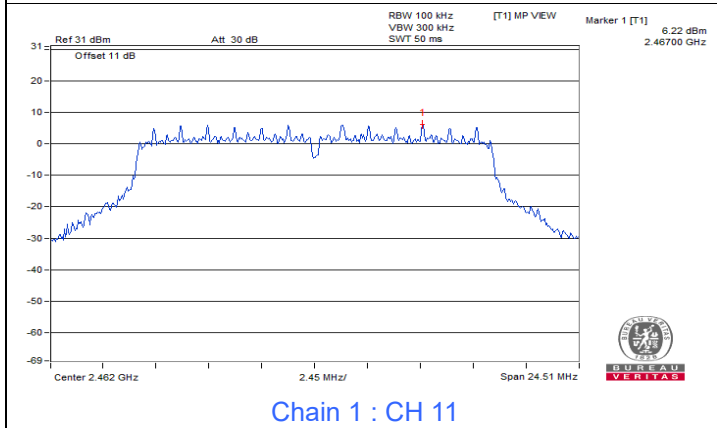
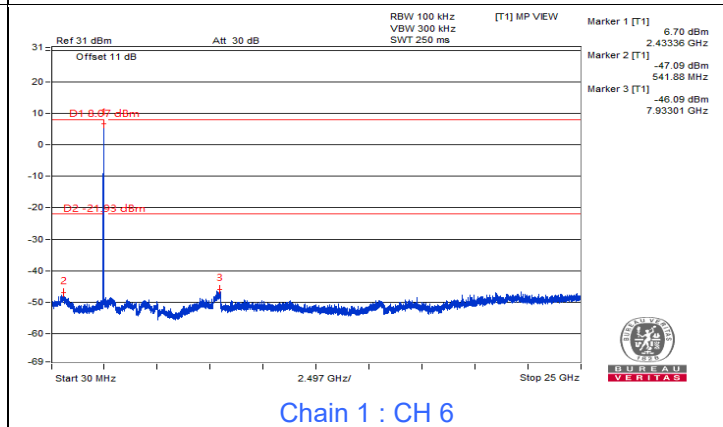
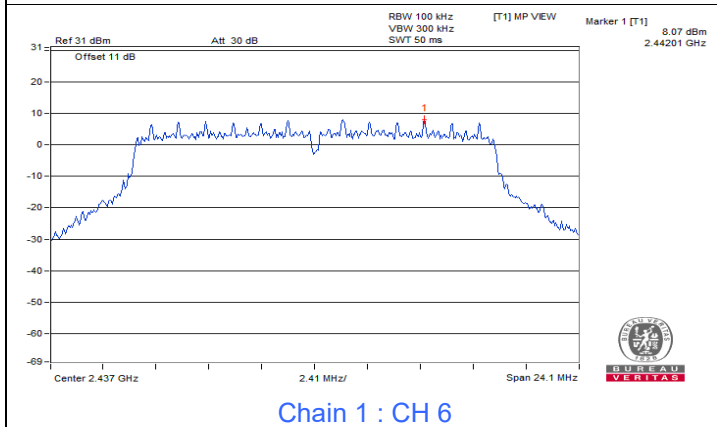
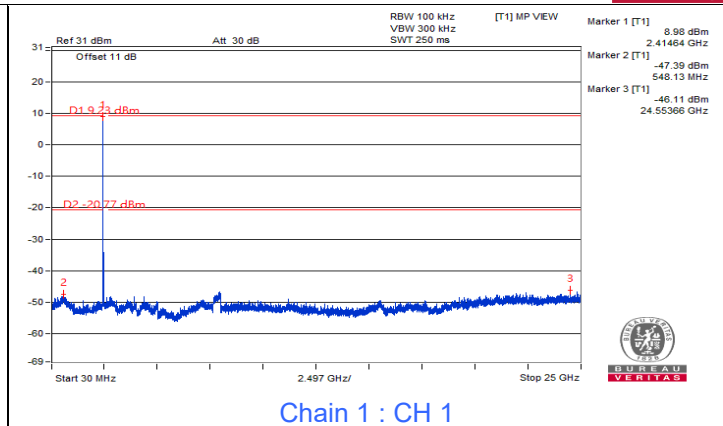
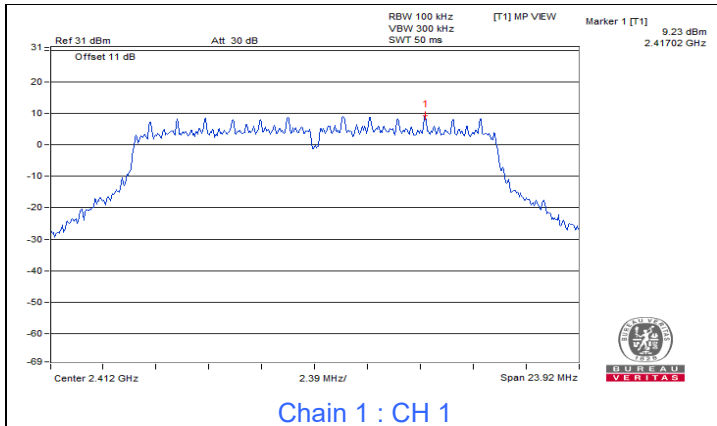
Chain 1 : CH 1 Band edge



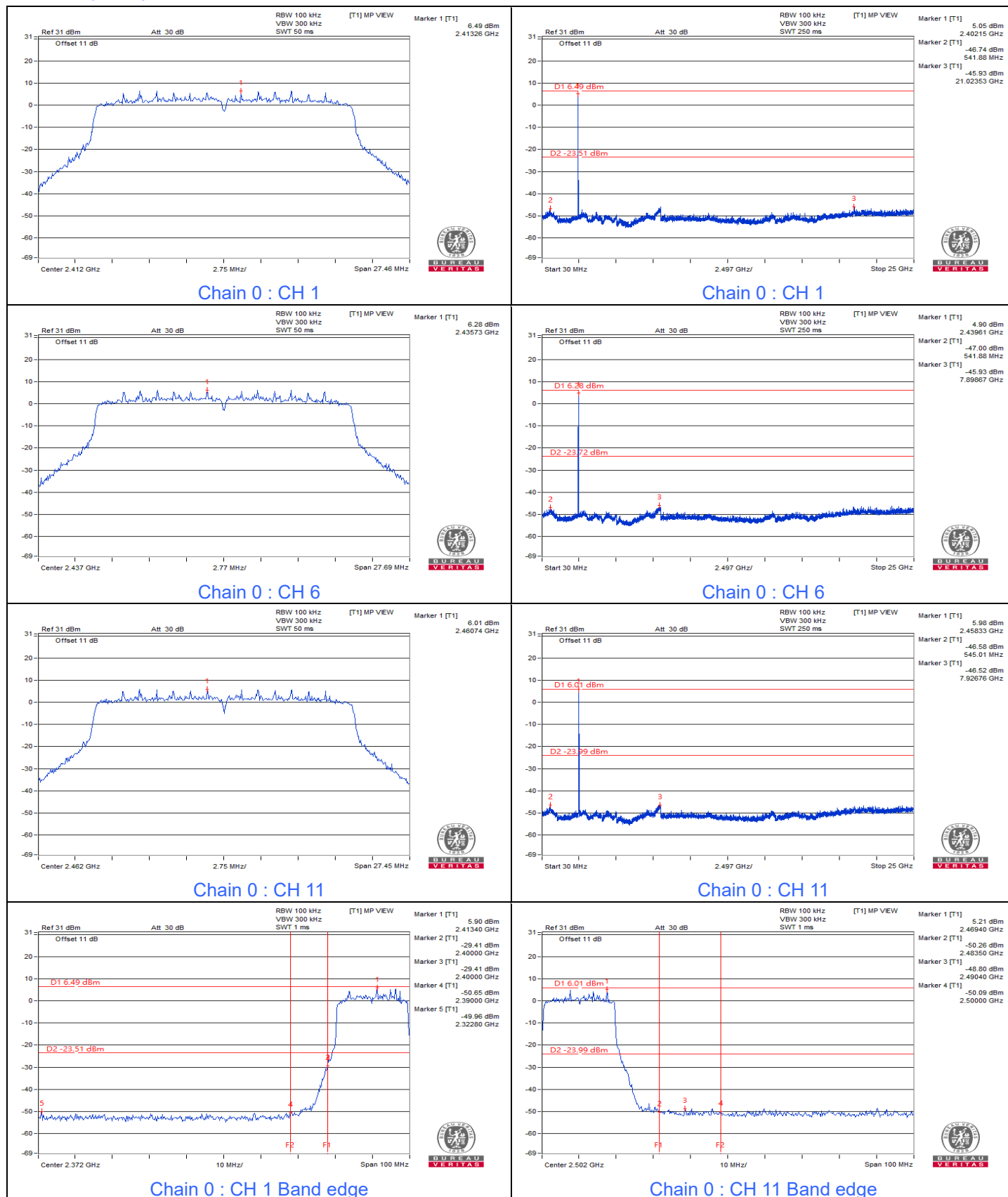
Chain 1 : CH 11 Band edge

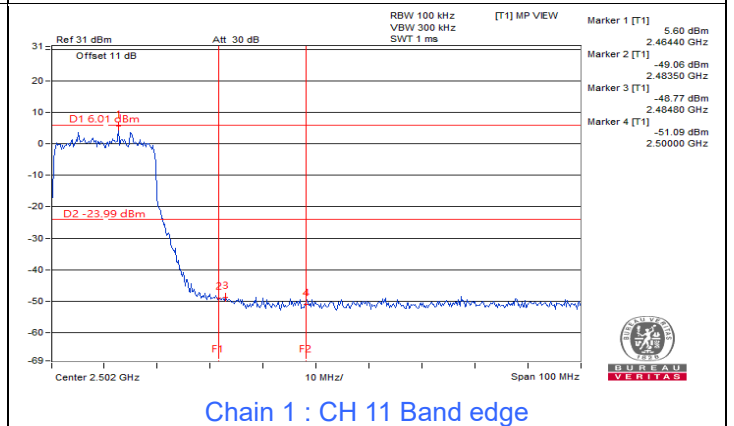
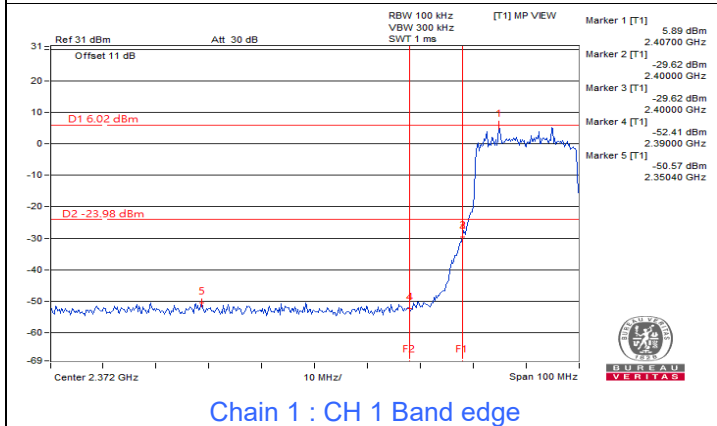
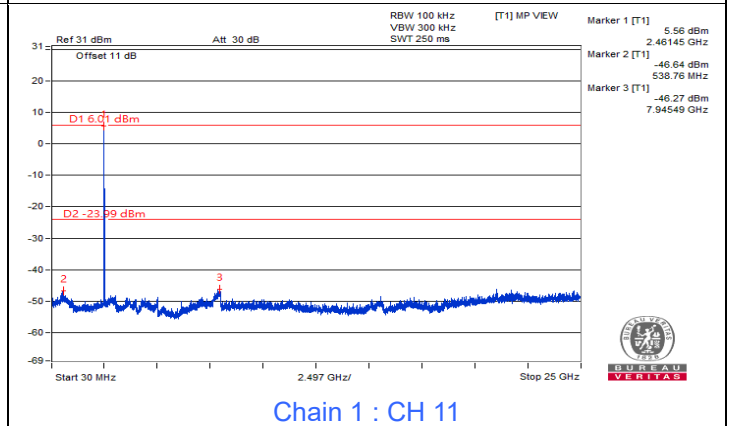
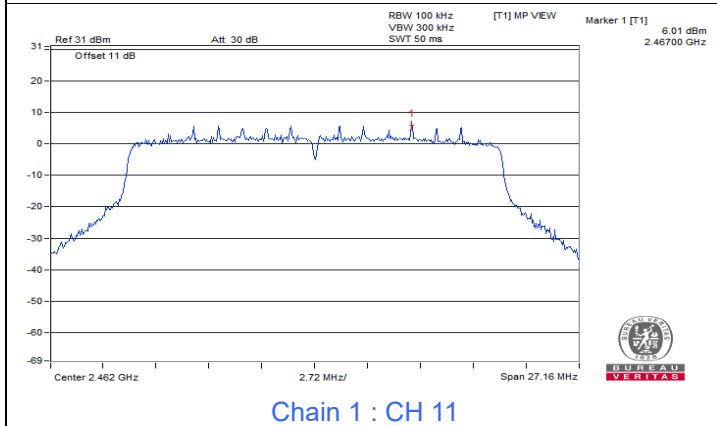
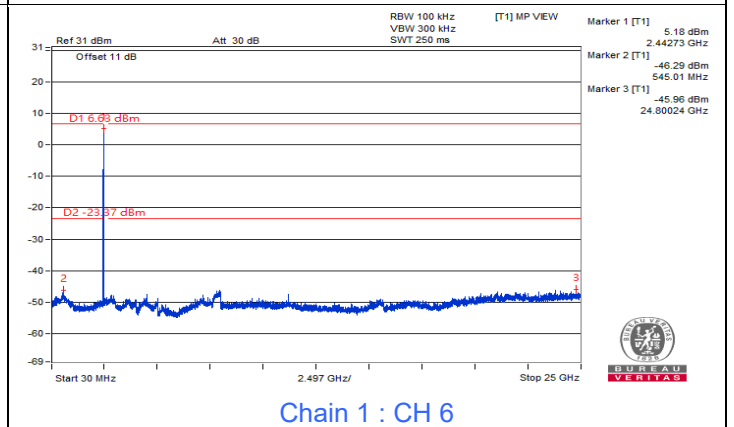
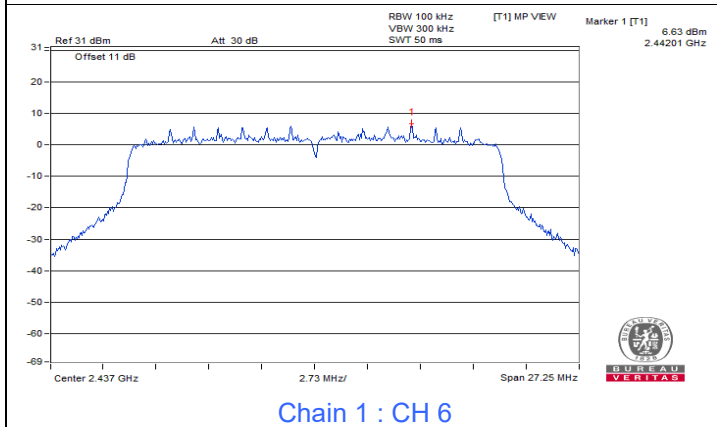
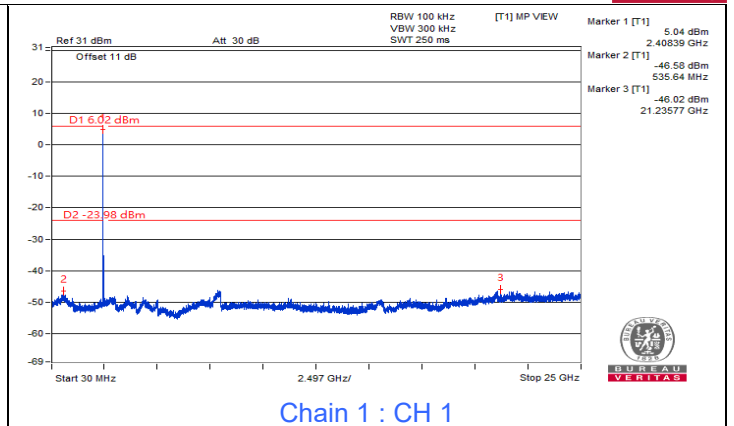
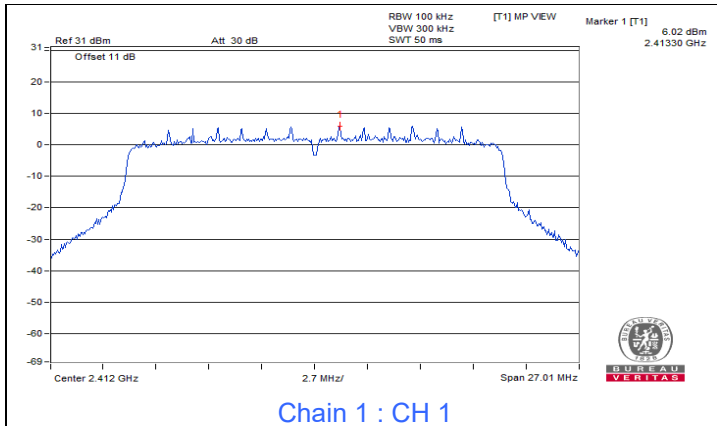
802.11g



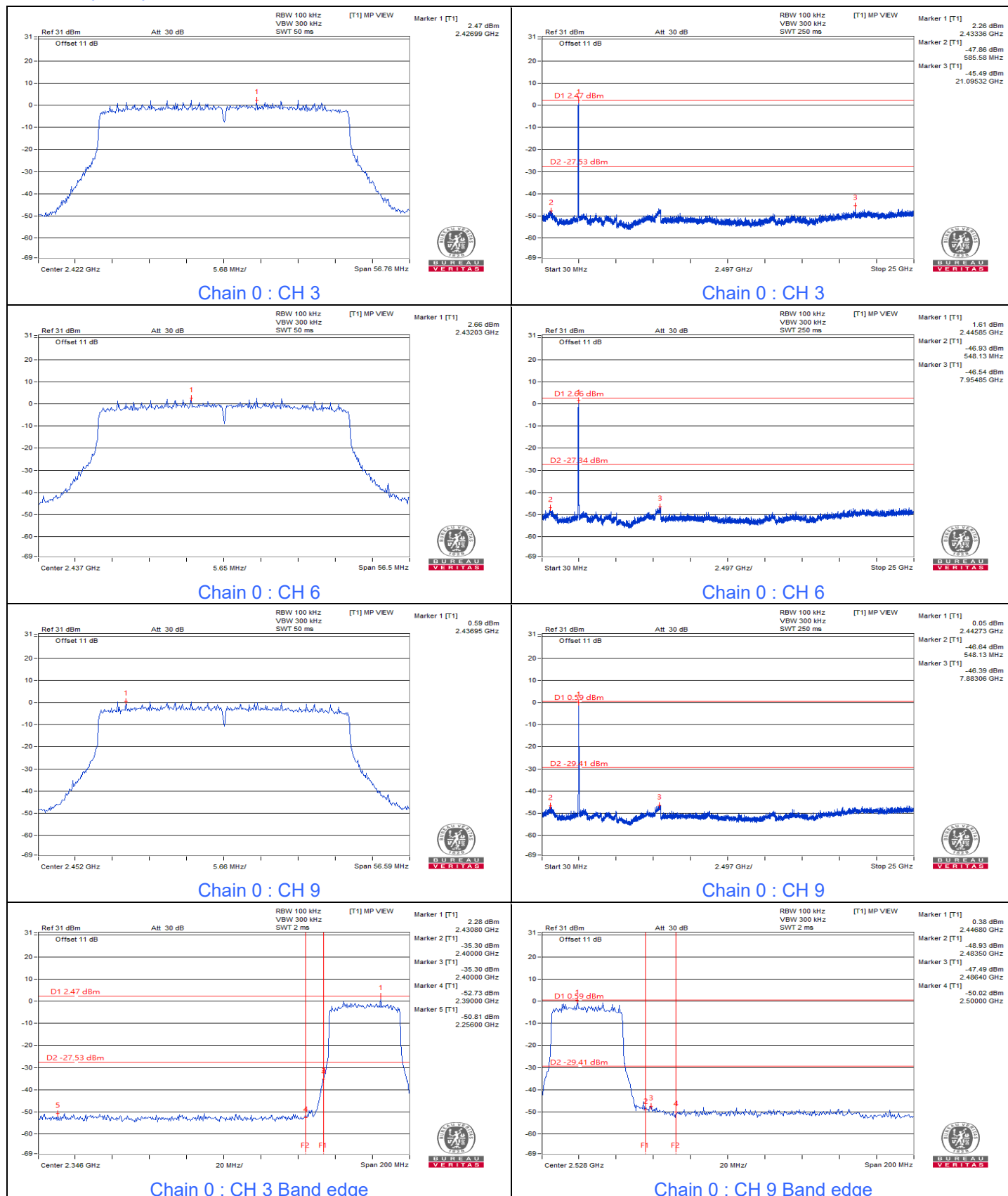


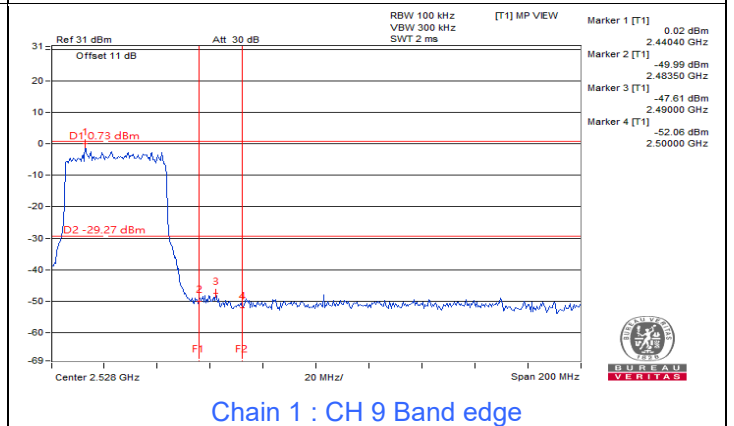
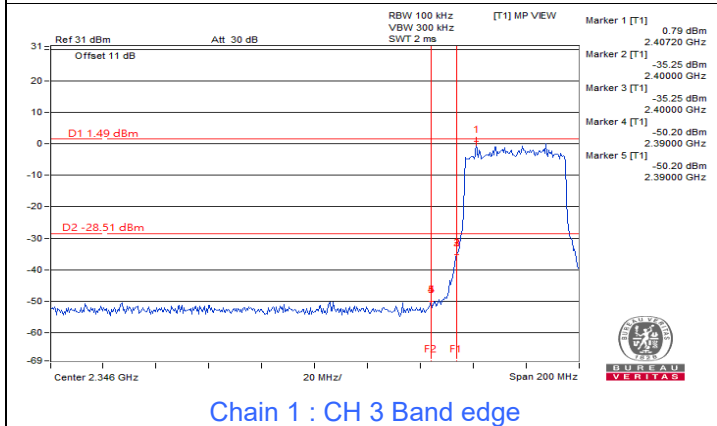
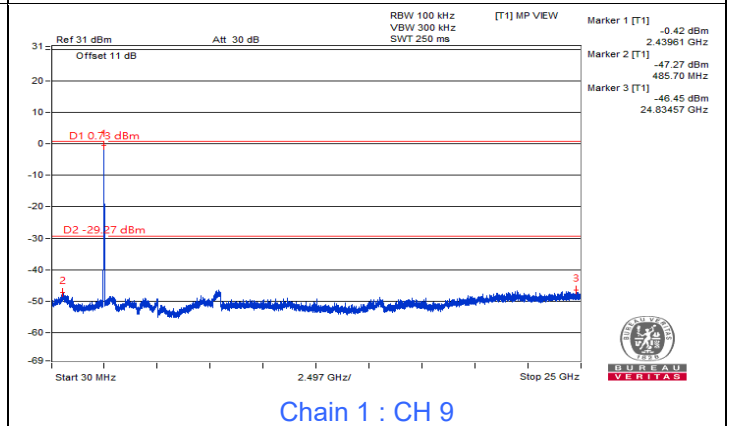
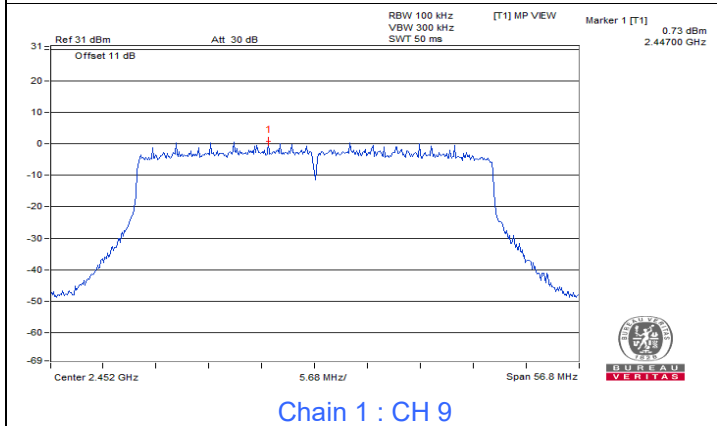
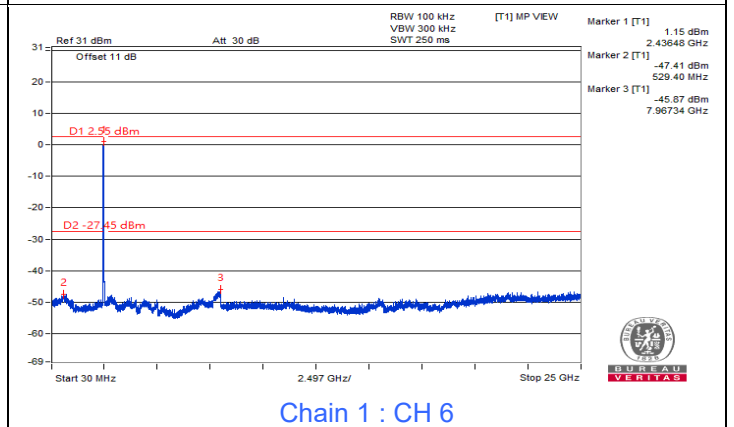
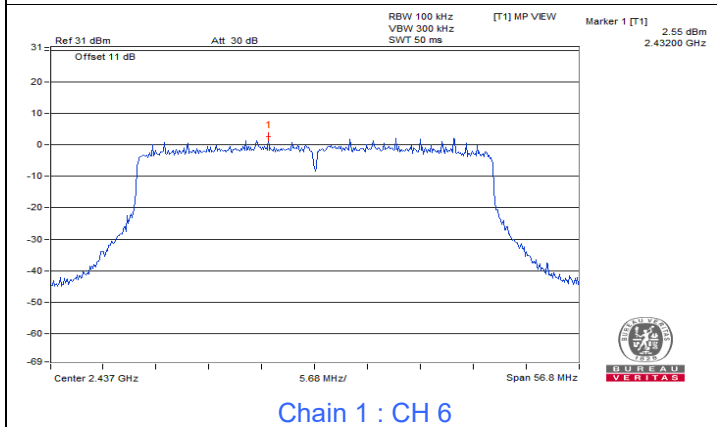
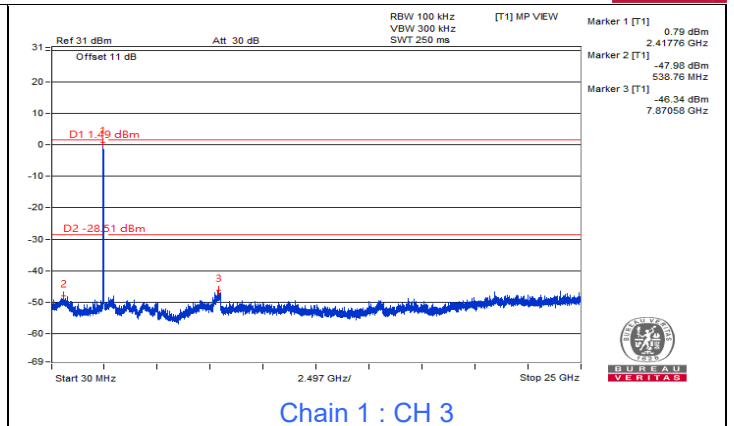
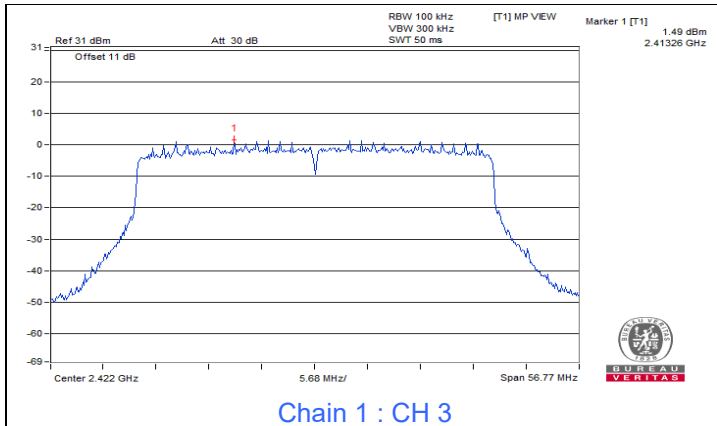
802.11ax (HE20)





802.11ax (HE40)





7.5 AC Power Conducted Emissions

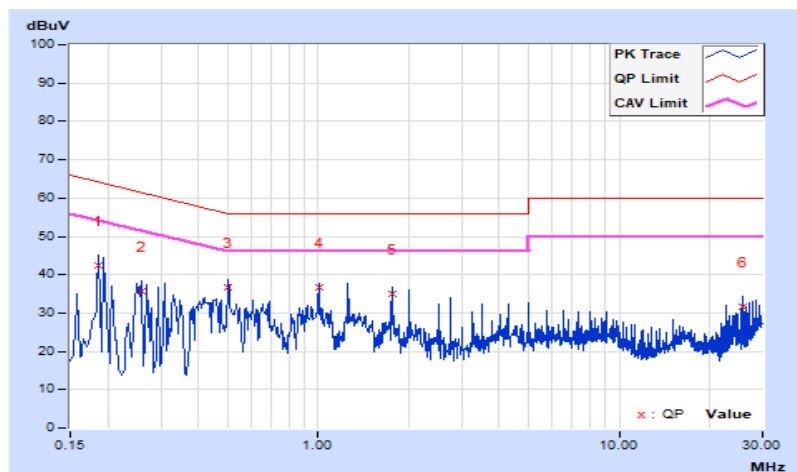
Mode A

RF Mode	802.11b	Channel	CH 11 : 2462 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	23 °C, 67% RH
Tested By	Adair Peng		

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	0.18600	10.26	32.10	11.82	42.36	22.08	64.21	54.21	-21.85	-32.13
2	0.25800	10.28	25.30	12.60	35.58	22.88	61.50	51.50	-25.92	-28.62
3	0.50200	10.30	26.41	25.42	36.71	35.72	56.00	46.00	-19.29	-10.28
4	1.00600	10.33	26.42	24.63	36.75	34.96	56.00	46.00	-19.25	-11.04
5	1.75800	10.36	24.71	23.55	35.07	33.91	56.00	46.00	-20.93	-12.09
6	25.87000	10.54	20.97	11.15	31.51	21.69	60.00	50.00	-28.49	-28.31

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

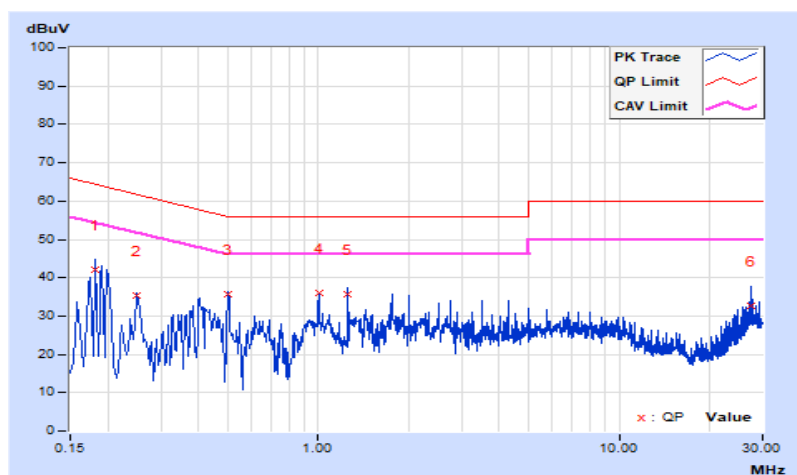


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.18200	10.30	31.74	8.54	42.04	18.84	64.39	54.39	-22.35	-35.55
2	0.25000	10.30	24.98	23.63	35.28	33.93	61.76	51.76	-26.48	-17.83
3	0.50200	10.33	25.40	24.95	35.73	35.28	56.00	46.00	-20.27	-10.72
4	1.00508	10.36	25.73	24.56	36.09	34.92	56.00	46.00	-19.91	-11.08
5	1.25400	10.37	25.19	24.56	35.56	34.93	56.00	46.00	-20.44	-11.07
6	27.37400	10.75	21.91	12.24	32.66	22.99	60.00	50.00	-27.34	-27.01

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



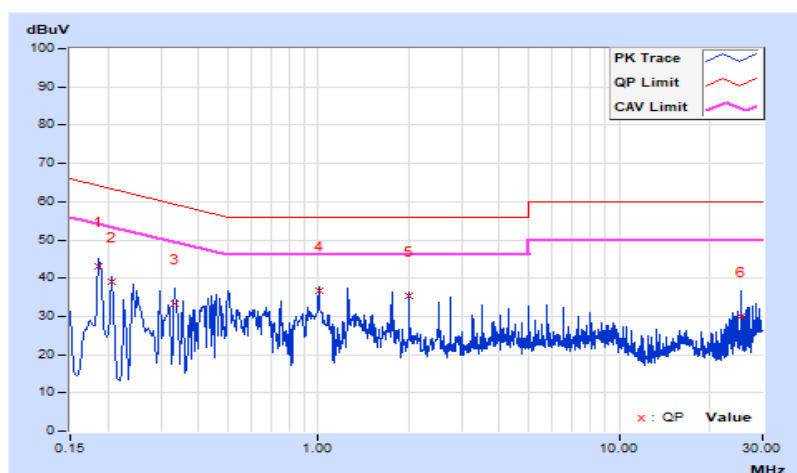
Mode B

RF Mode	802.11b	Channel	CH 11 : 2462 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	23 °C, 67% RH
Tested By	Adair Peng		

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	0.18600	10.26	32.85	11.88	43.11	22.14	64.21	54.21	-21.10	-32.07
2	0.20600	10.27	28.75	11.15	39.02	21.42	63.37	53.37	-24.35	-31.95
3	0.33400	10.28	23.05	9.13	33.33	19.41	59.35	49.35	-26.02	-29.94
4	1.00600	10.33	26.51	24.71	36.84	35.04	56.00	46.00	-19.16	-10.96
5	2.00969	10.37	25.15	24.57	35.52	34.94	56.00	46.00	-20.48	-11.06
6	25.36600	10.55	19.39	17.15	29.94	27.70	60.00	50.00	-30.06	-22.30

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

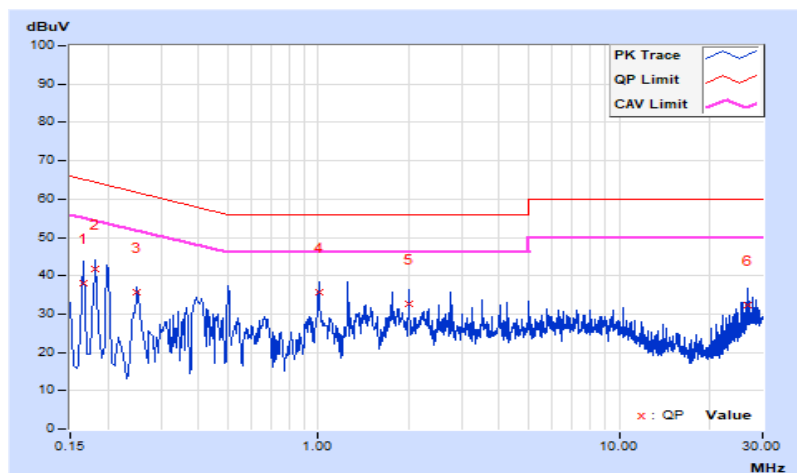


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.16600	10.30	27.89	2.12	38.19	12.42	65.16	55.16	-26.97	-42.74
2	0.18200	10.30	31.51	8.18	41.81	18.48	64.39	54.39	-22.58	-35.91
3	0.25000	10.30	25.45	23.63	35.75	33.93	61.76	51.76	-26.01	-17.83
4	1.00600	10.36	25.27	23.93	35.63	34.29	56.00	46.00	-20.37	-11.71
5	2.00600	10.40	22.34	21.34	32.74	31.74	56.00	46.00	-23.26	-14.26
6	26.87000	10.75	21.49	17.65	32.24	28.40	60.00	50.00	-27.76	-21.60

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

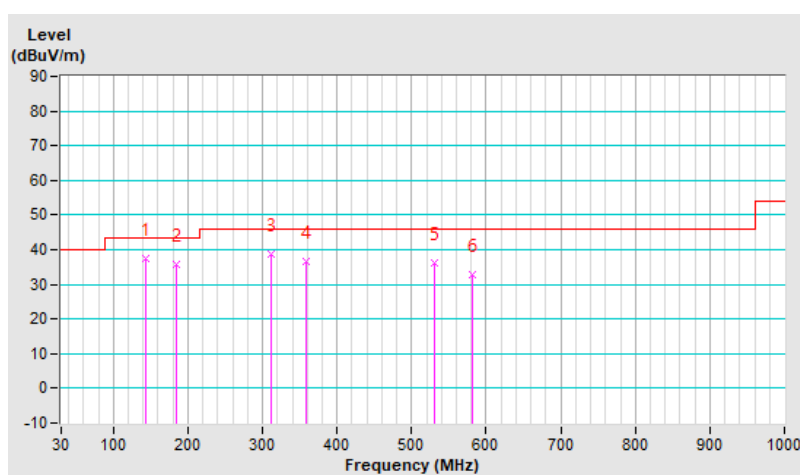
Mode A

RF Mode	802.11b	Channel	CH 11 : 2462 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	144.17	37.6 QP	43.5	-5.9	1.45 H	31	50.4	-12.8
2	185.33	35.7 QP	43.5	-7.8	1.85 H	344	50.7	-15.0
3	312.52	38.6 QP	46.0	-7.4	2.07 H	112	50.3	-11.7
4	358.13	36.5 QP	46.0	-9.5	1.56 H	188	47.1	-10.6
5	530.27	36.2 QP	46.0	-9.8	1.05 H	49	42.9	-6.7
6	582.25	32.8 QP	46.0	-13.2	1.62 H	104	38.0	-5.2

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 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.
6. Radiated emissions were evaluated with RF module off to determine whether failing results were originating from the RF module. After verification, there listed frequencies 85.35MHz (Horizontal) / 33.92MHz (Vertical) / 80.42MHz (Vertical) are failing have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCIC-WTW-P25040167_Peplink_AP One Flex, APO-FLX_FCC 15B.

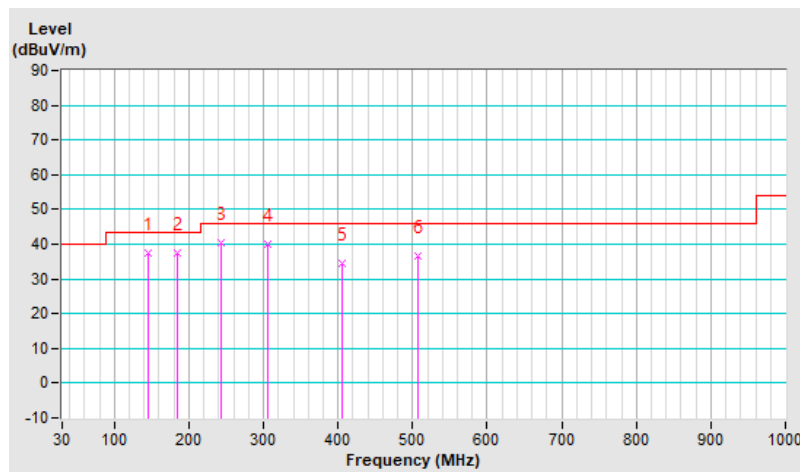


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	146.17	37.4 QP	43.5	-6.1	2.08 V	178	50.0	-12.6
2	184.52	37.6 QP	43.5	-5.9	1.33 V	258	52.5	-14.9
3	244.10	40.6 QP	46.0	-5.4	1.96 V	117	54.7	-14.1
4	305.28	39.8 QP	46.0	-6.2	1.84 V	199	51.7	-11.9
5	406.15	34.4 QP	46.0	-11.6	1.52 V	64	43.9	-9.5
6	506.41	36.5 QP	46.0	-9.5	1.22 V	191	43.7	-7.2

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 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.
6. Radiated emissions were evaluated with RF module off to determine whether failing results were originating from the RF module. After verification, there listed frequencies 85.35MHz (Horizontal) / 33.92MHz (Vertical) / 80.42MHz (Vertical) are failing have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCIC-WTW-P25040167_Peplink_AP One Flex, APO-FLX_FCC 15B.



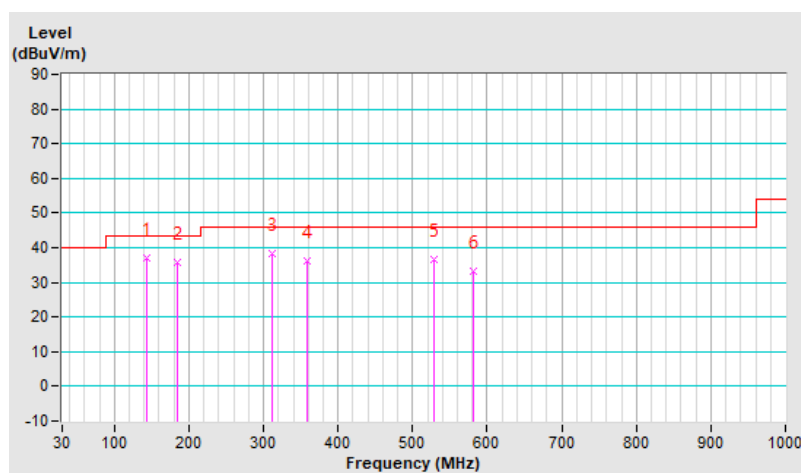
Mode B

RF Mode	802.11b	Channel	CH 11 : 2462 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	143.49	37.1 QP	43.5	-6.4	1.57 H	35	49.9	-12.8
2	184.23	35.8 QP	43.5	-7.7	1.96 H	353	50.7	-14.9
3	312.27	38.4 QP	46.0	-7.6	2.21 H	108	50.1	-11.7
4	357.86	36.2 QP	46.0	-9.8	1.34 H	193	46.8	-10.6
5	529.55	36.5 QP	46.0	-9.5	1.08 H	57	43.2	-6.7
6	581.93	33.1 QP	46.0	-12.9	1.65 H	94	38.3	-5.2

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 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.
6. Radiated emissions were evaluated with RF module off to determine whether failing results were originating from the RF module. After verification, there listed frequencies 85.35MHz (Horizontal) / 33.92MHz (Vertical) / 80.42MHz (Vertical) are failing have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCIC-WTW-P25040167_Peplink_AP One Flex, APO-FLX_FCC 15B.

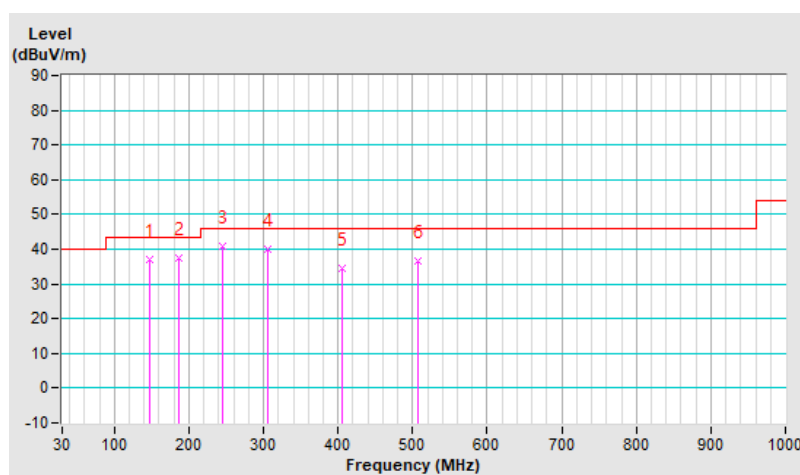


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	146.40	37.2 QP	43.5	-6.3	2.14 V	187	49.8	-12.6
2	186.17	37.4 QP	43.5	-6.1	1.38 V	259	52.5	-15.1
3	244.37	40.7 QP	46.0	-5.3	2.01 V	103	54.8	-14.1
4	305.48	40.1 QP	46.0	-5.9	1.88 V	253	52.0	-11.9
5	406.36	34.7 QP	46.0	-11.3	1.52 V	68	44.2	-9.5
6	506.27	36.4 QP	46.0	-9.6	1.14 V	180	43.6	-7.2

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 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.
6. Radiated emissions were evaluated with RF module off to determine whether failing results were originating from the RF module. After verification, there listed frequencies 85.35MHz (Horizontal) / 33.92MHz (Vertical) / 80.42MHz (Vertical) are failing have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCIC-WTW-P25040167_Peplink_AP One Flex, APO-FLX_FCC 15B.



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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=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	2390.00	56.5 PK	74.0	-17.5	1.16 H	271	24.7	31.8
2	2390.00	42.5 AV	54.0	-11.5	1.16 H	271	10.7	31.8
3	*2412.00	109.0 PK			1.16 H	271	77.2	31.8
4	*2412.00	105.9 AV			1.16 H	271	74.1	31.8
5	4824.00	49.2 PK	74.0	-24.8	1.74 H	125	46.2	3.0
6	4824.00	37.7 AV	54.0	-16.3	1.74 H	125	34.7	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	55.7 PK	74.0	-18.3	2.51 V	251	23.9	31.8
2	2390.00	43.1 AV	54.0	-10.9	2.51 V	251	11.3	31.8
3	*2412.00	115.4 PK			2.51 V	251	83.6	31.8
4	*2412.00	112.2 AV			2.51 V	251	80.4	31.8
5	4824.00	52.6 PK	74.0	-21.4	1.00 V	262	49.6	3.0
6	4824.00	43.0 AV	54.0	-11.0	1.00 V	262	40.0	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=10 Hz, DET=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	*2437.00	108.5 PK			1.08 H	263	76.7	31.8
2	*2437.00	105.2 AV			1.08 H	263	73.4	31.8
3	4874.00	49.2 PK	74.0	-24.8	1.74 H	120	46.2	3.0
4	4874.00	38.7 AV	54.0	-15.3	1.74 H	120	35.7	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	114.8 PK			2.43 V	251	83.0	31.8
2	*2437.00	111.6 AV			2.43 V	251	79.8	31.8
3	4874.00	53.4 PK	74.0	-20.6	1.03 V	276	50.4	3.0
4	4874.00	43.9 AV	54.0	-10.1	1.03 V	276	40.9	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	802.11b	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=10 Hz, DET=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	*2462.00	108.7 PK			2.10 H	278	76.8	31.9
2	*2462.00	105.6 AV			2.10 H	278	73.7	31.9
3	2483.50	56.7 PK	74.0	-17.3	2.10 H	278	24.8	31.9
4	2483.50	44.5 AV	54.0	-9.5	2.10 H	278	12.6	31.9
5	4924.00	50.2 PK	74.0	-23.8	1.72 H	109	47.2	3.0
6	4924.00	38.4 AV	54.0	-15.6	1.72 H	109	35.4	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	115.5 PK			2.48 V	257	83.6	31.9
2	*2462.00	112.3 AV			2.48 V	257	80.4	31.9
3	2483.50	55.8 PK	74.0	-18.2	2.48 V	257	23.9	31.9
4	2483.50	45.4 AV	54.0	-8.6	2.48 V	257	13.5	31.9
5	4924.00	52.5 PK	74.0	-21.5	1.00 V	258	49.5	3.0
6	4924.00	43.6 AV	54.0	-10.4	1.00 V	258	40.6	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 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	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	2390.00	57.3 PK	74.0	-16.7	1.16 H	271	25.5	31.8
2	2390.00	42.6 AV	54.0	-11.4	1.16 H	271	10.8	31.8
3	*2412.00	111.2 PK			1.16 H	271	79.4	31.8
4	*2412.00	101.2 AV			1.16 H	271	69.4	31.8
5	4824.00	49.3 PK	74.0	-24.7	1.74 H	125	46.3	3.0
6	4824.00	35.3 AV	54.0	-18.7	1.74 H	125	32.3	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	2390.00	56.9 PK	74.0	-17.1	2.51 V	251	25.1	31.8
2	2390.00	44.1 AV	54.0	-9.9	2.51 V	251	12.3	31.8
3	*2412.00	117.1 PK			2.51 V	251	85.3	31.8
4	*2412.00	107.0 AV			2.51 V	251	75.2	31.8
5	4824.00	51.3 PK	74.0	-22.7	1.00 V	262	48.3	3.0
6	4824.00	37.1 AV	54.0	-16.9	1.00 V	262	34.1	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	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	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	*2437.00	110.0 PK			1.08 H	263	78.2	31.8
2	*2437.00	99.6 AV			1.08 H	263	67.8	31.8
3	4874.00	48.9 PK	74.0	-25.1	1.74 H	120	45.9	3.0
4	4874.00	35.2 AV	54.0	-18.8	1.74 H	120	32.2	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	*2437.00	116.3 PK			2.43 V	251	84.5	31.8
2	*2437.00	105.9 AV			2.43 V	251	74.1	31.8
3	4874.00	51.1 PK	74.0	-22.9	1.03 V	276	48.1	3.0
4	4874.00	38.0 AV	54.0	-16.0	1.03 V	276	35.0	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	802.11g	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	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	*2462.00	107.6 PK			2.10 H	278	75.7	31.9
2	*2462.00	97.2 AV			2.10 H	278	65.3	31.9
3	2483.50	56.3 PK	74.0	-17.7	2.10 H	278	24.4	31.9
4	2483.50	44.5 AV	54.0	-9.5	2.10 H	278	12.6	31.9
5	4924.00	49.3 PK	74.0	-24.7	1.72 H	109	46.3	3.0
6	4924.00	35.7 AV	54.0	-18.3	1.72 H	109	32.7	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	114.0 PK			2.48 V	257	82.1	31.9
2	*2462.00	104.2 AV			2.48 V	257	72.3	31.9
3	2483.50	58.5 PK	74.0	-15.5	2.48 V	257	26.6	31.9
4	2483.50	45.7 AV	54.0	-8.3	2.48 V	257	13.8	31.9
5	4924.00	51.1 PK	74.0	-22.9	1.00 V	258	48.1	3.0
6	4924.00	37.5 AV	54.0	-16.5	1.00 V	258	34.5	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	802.11ax (HE20)	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	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	2390.00	56.7 PK	74.0	-17.3	1.16 H	271	24.9	31.8
2	2390.00	43.5 AV	54.0	-10.5	1.16 H	271	11.7	31.8
3	*2412.00	111.4 PK			1.16 H	271	79.6	31.8
4	*2412.00	98.0 AV			1.16 H	271	66.2	31.8
5	4824.00	49.1 PK	74.0	-24.9	1.74 H	125	46.1	3.0
6	4824.00	35.8 AV	54.0	-18.2	1.74 H	125	32.8	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	58.0 PK	74.0	-16.0	2.51 V	251	26.2	31.8
2	2390.00	46.8 AV	54.0	-7.2	2.51 V	251	15.0	31.8
3	*2412.00	116.6 PK			2.51 V	251	84.8	31.8
4	*2412.00	103.8 AV			2.51 V	251	72.0	31.8
5	4824.00	50.9 PK	74.0	-23.1	1.00 V	262	47.9	3.0
6	4824.00	37.3 AV	54.0	-16.7	1.00 V	262	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	802.11ax (HE20)	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	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	*2437.00	110.2 PK			1.08 H	263	78.4	31.8
2	*2437.00	97.5 AV			1.08 H	263	65.7	31.8
3	4874.00	49.3 PK	74.0	-24.7	1.74 H	120	46.3	3.0
4	4874.00	35.4 AV	54.0	-18.6	1.74 H	120	32.4	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	*2437.00	116.7 PK			2.43 V	251	84.9	31.8
2	*2437.00	103.8 AV			2.43 V	251	72.0	31.8
3	4874.00	51.3 PK	74.0	-22.7	1.03 V	276	48.3	3.0
4	4874.00	37.6 AV	54.0	-16.4	1.03 V	276	34.6	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	802.11ax (HE20)	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	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	*2462.00	106.8 PK			2.10 H	278	74.9	31.9
2	*2462.00	96.3 AV			2.10 H	278	64.4	31.9
3	2483.50	57.4 PK	74.0	-16.6	2.10 H	278	25.5	31.9
4	2483.50	45.5 AV	54.0	-8.5	2.10 H	278	13.6	31.9
5	4924.00	49.1 PK	74.0	-24.9	1.72 H	109	46.1	3.0
6	4924.00	35.4 AV	54.0	-18.6	1.72 H	109	32.4	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	116.4 PK			2.48 V	257	84.5	31.9
2	*2462.00	102.8 AV			2.48 V	257	70.9	31.9
3	2483.50	62.3 PK	74.0	-11.7	2.48 V	257	30.4	31.9
4	2483.50	49.3 AV	54.0	-4.7	2.48 V	257	17.4	31.9
5	4924.00	50.3 PK	74.0	-23.7	1.00 V	258	47.3	3.0
6	4924.00	37.8 AV	54.0	-16.2	1.00 V	258	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	802.11ax (HE40)	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	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	2390.00	56.2 PK	74.0	-17.8	1.34 H	271	24.4	31.8
2	2390.00	42.9 AV	54.0	-11.1	1.34 H	271	11.1	31.8
3	*2422.00	107.5 PK			1.34 H	271	75.7	31.8
4	*2422.00	94.7 AV			1.34 H	271	62.9	31.8
5	2483.50	56.9 PK	74.0	-17.1	1.34 H	271	25.0	31.9
6	2483.50	44.2 AV	54.0	-9.8	1.34 H	271	12.3	31.9
7	4844.00	49.2 PK	74.0	-24.8	1.74 H	125	46.3	2.9
8	4844.00	35.6 AV	54.0	-18.4	1.74 H	125	32.7	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	59.4 PK	74.0	-14.6	2.24 V	263	27.6	31.8
2	2390.00	47.5 AV	54.0	-6.5	2.24 V	263	15.7	31.8
3	*2422.00	114.5 PK			2.24 V	263	82.7	31.8
4	*2422.00	100.7 AV			2.24 V	263	68.9	31.8
5	2483.50	57.2 PK	74.0	-16.8	2.24 V	263	25.3	31.9
6	2483.50	44.7 AV	54.0	-9.3	2.24 V	263	12.8	31.9
7	4844.00	49.6 PK	74.0	-24.4	1.00 V	264	46.7	2.9
8	4844.00	35.8 AV	54.0	-18.2	1.00 V	264	32.9	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	802.11ax (HE40)	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	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	2390.00	56.3 PK	74.0	-17.7	1.28 H	271	24.5	31.8
2	2390.00	43.4 AV	54.0	-10.6	1.28 H	271	11.6	31.8
3	*2437.00	108.4 PK			1.28 H	271	76.6	31.8
4	*2437.00	94.7 AV			1.28 H	271	62.9	31.8
5	2483.50	56.8 PK	74.0	-17.2	1.28 H	271	24.9	31.9
6	2483.50	44.7 AV	54.0	-9.3	1.28 H	271	12.8	31.9
7	4874.00	48.8 PK	74.0	-25.2	1.72 H	120	45.8	3.0
8	4874.00	34.9 AV	54.0	-19.1	1.72 H	120	31.9	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	56.5 PK	74.0	-17.5	2.40 V	263	24.7	31.8
2	2390.00	44.3 AV	54.0	-9.7	2.40 V	263	12.5	31.8
3	*2437.00	113.6 PK			2.40 V	263	81.8	31.8
4	*2437.00	101.0 AV			2.40 V	263	69.2	31.8
5	2483.50	62.4 PK	74.0	-11.6	2.40 V	263	30.5	31.9
6	2483.50	48.5 AV	54.0	-5.5	2.40 V	263	16.6	31.9
7	4874.00	49.4 PK	74.0	-24.6	1.03 V	281	46.4	3.0
8	4874.00	35.5 AV	54.0	-18.5	1.03 V	281	32.5	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	802.11ax (HE40)	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	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	2390.00	57.2 PK	74.0	-16.8	2.10 H	278	25.4	31.8
2	2390.00	42.7 AV	54.0	-11.3	2.10 H	278	10.9	31.8
3	*2452.00	105.0 PK			2.10 H	278	73.1	31.9
4	*2452.00	92.8 AV			2.10 H	278	60.9	31.9
5	2483.50	57.0 PK	74.0	-17.0	2.10 H	278	25.1	31.9
6	2483.50	42.3 AV	54.0	-11.7	2.10 H	278	10.4	31.9
7	4904.00	49.1 PK	74.0	-24.9	1.71 H	104	46.1	3.0
8	4904.00	35.4 AV	54.0	-18.6	1.71 H	104	32.4	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	2390.00	56.1 PK	74.0	-17.9	2.48 V	257	24.3	31.8
2	2390.00	43.4 AV	54.0	-10.6	2.48 V	257	11.6	31.8
3	*2452.00	112.6 PK			2.48 V	257	80.7	31.9
4	*2452.00	99.3 AV			2.48 V	257	67.4	31.9
5	2483.50	60.3 PK	74.0	-13.7	2.48 V	257	28.4	31.9
6	2483.50	48.8 AV	54.0	-5.2	2.48 V	257	16.9	31.9
7	4904.00	49.6 PK	74.0	-24.4	1.01 V	255	46.6	3.0
8	4904.00	35.9 AV	54.0	-18.1	1.01 V	255	32.9	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.

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=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	2390.00	56.6 PK	74.0	-17.4	1.67 H	354	24.8	31.8
2	2390.00	44.6 AV	54.0	-9.4	1.67 H	354	12.8	31.8
3	*2412.00	117.2 PK			1.67 H	354	85.4	31.8
4	*2412.00	114.7 AV			1.67 H	354	82.9	31.8
5	4824.00	56.3 PK	74.0	-17.7	1.05 H	39	53.3	3.0
6	4824.00	52.9 AV	54.0	-1.1	1.05 H	39	49.9	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	57.2 PK	74.0	-16.8	1.46 V	4	25.4	31.8
2	2390.00	44.7 AV	54.0	-9.3	1.46 V	4	12.9	31.8
3	*2412.00	117.3 PK			1.46 V	4	85.5	31.8
4	*2412.00	114.8 AV			1.46 V	4	83.0	31.8
5	4824.00	53.3 PK	74.0	-20.7	2.60 V	303	50.3	3.0
6	4824.00	48.7 AV	54.0	-5.3	2.60 V	303	45.7	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=10 Hz, DET=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	*2437.00	116.7 PK			1.67 H	354	84.9	31.8
2	*2437.00	114.1 AV			1.67 H	354	82.3	31.8
3	4874.00	56.0 PK	74.0	-18.0	1.00 H	42	53.0	3.0
4	4874.00	52.8 AV	54.0	-1.2	1.00 H	42	49.8	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	*2437.00	116.8 PK			1.32 V	0	85.0	31.8
2	*2437.00	115.0 AV			1.32 V	0	83.2	31.8
3	4874.00	53.3 PK	74.0	-20.7	2.60 V	305	50.3	3.0
4	4874.00	48.8 AV	54.0	-5.2	2.60 V	305	45.8	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 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=10 Hz, DET=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	*2462.00	115.4 PK			1.68 H	351	83.5	31.9
2	*2462.00	113.0 AV			1.68 H	351	81.1	31.9
3	2483.50	57.4 PK	74.0	-16.6	1.68 H	351	25.5	31.9
4	2483.50	46.5 AV	54.0	-7.5	1.68 H	351	14.6	31.9
5	4924.00	53.8 PK	74.0	-20.2	1.00 H	41	50.8	3.0
6	4924.00	50.9 AV	54.0	-3.1	1.00 H	41	47.9	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	116.1 PK			1.48 V	354	84.2	31.9
2	*2462.00	115.0 AV			1.48 V	354	83.1	31.9
3	2483.50	59.3 PK	74.0	-14.7	1.48 V	354	27.4	31.9
4	2483.50	49.4 AV	54.0	-4.6	1.48 V	354	17.5	31.9
5	4924.00	51.1 PK	74.0	-22.9	2.63 V	300	48.1	3.0
6	4924.00	46.8 AV	54.0	-7.2	2.63 V	300	43.8	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	802.11g	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	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	2390.00	60.9 PK	74.0	-13.1	1.73 H	348	29.1	31.8
2	2390.00	48.9 AV	54.0	-5.1	1.73 H	348	17.1	31.8
3	*2412.00	121.4 PK			1.73 H	348	89.6	31.8
4	*2412.00	111.4 AV			1.73 H	348	79.6	31.8
5	4824.00	56.2 PK	74.0	-17.8	1.04 H	44	53.2	3.0
6	4824.00	42.7 AV	54.0	-11.3	1.04 H	44	39.7	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	62.9 PK	74.0	-11.1	1.25 V	0	31.1	31.8
2	2390.00	51.2 AV	54.0	-2.8	1.25 V	0	19.4	31.8
3	*2412.00	122.5 PK			1.25 V	0	90.7	31.8
4	*2412.00	111.6 AV			1.25 V	0	79.8	31.8
5	4824.00	52.3 PK	74.0	-21.7	2.62 V	300	49.3	3.0
6	4824.00	40.0 AV	54.0	-14.0	2.62 V	300	37.0	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	802.11g	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	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	*2437.00	123.0 PK			1.50 H	345	91.2	31.8
2	*2437.00	112.3 AV			1.50 H	345	80.5	31.8
3	4874.00	58.7 PK	74.0	-15.3	1.00 H	43	55.7	3.0
4	4874.00	44.7 AV	54.0	-9.3	1.00 H	44	41.7	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	123.3 PK			1.81 V	355	91.5	31.8
2	*2437.00	112.5 AV			1.81 V	355	80.7	31.8
3	4874.00	55.3 PK	74.0	-18.7	2.48 V	298	52.3	3.0
4	4874.00	41.3 AV	54.0	-12.7	2.48 V	298	38.3	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	802.11g	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	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	*2462.00	117.1 PK			1.45 H	356	85.2	31.9
2	*2462.00	107.3 AV			1.45 H	356	75.4	31.9
3	2483.50	61.2 PK	74.0	-12.8	1.45 H	356	29.3	31.9
4	2483.50	47.9 AV	54.0	-6.1	1.45 H	356	16.0	31.9
5	4924.00	52.6 PK	74.0	-21.4	1.04 H	42	49.6	3.0
6	4924.00	41.6 AV	54.0	-12.4	1.04 H	42	38.6	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	118.2 PK			1.37 V	358	86.3	31.9
2	*2462.00	107.4 AV			1.37 V	358	75.5	31.9
3	2483.50	64.1 PK	74.0	-9.9	1.37 V	358	32.2	31.9
4	2483.50	52.2 AV	54.0	-1.8	1.37 V	358	20.3	31.9
5	4924.00	48.5 PK	74.0	-25.5	2.62 V	300	45.5	3.0
6	4924.00	37.5 AV	54.0	-16.5	2.62 V	300	34.5	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	802.11ax (HE20)	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	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	2390.00	64.6 PK	74.0	-9.4	1.73 H	358	32.8	31.8
2	2390.00	52.7 AV	54.0	-1.3	1.73 H	358	20.9	31.8
3	*2412.00	123.7 PK			1.73 H	358	91.9	31.8
4	*2412.00	110.5 AV			1.73 H	358	78.7	31.8
5	4824.00	57.2 PK	74.0	-16.8	1.04 H	44	54.2	3.0
6	4824.00	43.0 AV	54.0	-11.0	1.04 H	44	40.0	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	64.9 PK	74.0	-9.1	1.21 V	1	33.1	31.8
2	2390.00	52.8 AV	54.0	-1.2	1.21 V	1	21.0	31.8
3	*2412.00	124.9 PK			1.21 V	1	93.1	31.8
4	*2412.00	111.0 AV			1.21 V	1	79.2	31.8
5	4824.00	54.2 PK	74.0	-19.8	2.62 V	298	51.2	3.0
6	4824.00	40.2 AV	54.0	-13.8	2.62 V	298	37.2	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	802.11ax (HE20)	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	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	*2437.00	125.3 PK			1.73 H	358	93.5	31.8
2	*2437.00	111.4 AV			1.73 H	358	79.6	31.8
3	4874.00	59.4 PK	74.0	-14.6	1.00 H	46	56.4	3.0
4	4874.00	43.8 AV	54.0	-10.2	1.00 H	46	40.8	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	*2437.00	125.5 PK			1.55 V	1	93.7	31.8
2	*2437.00	112.0 AV			1.55 V	1	80.2	31.8
3	4874.00	56.5 PK	74.0	-17.5	2.48 V	293	53.5	3.0
4	4874.00	41.1 AV	54.0	-12.9	2.48 V	293	38.1	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	802.11ax (HE20)	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	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	*2462.00	119.4 PK			1.89 H	358	87.5	31.9
2	*2462.00	105.8 AV			1.89 H	358	73.9	31.9
3	2483.50	62.9 PK	74.0	-11.1	1.89 H	358	31.0	31.9
4	2483.50	51.1 AV	54.0	-2.9	1.89 H	358	19.2	31.9
5	4924.00	49.4 PK	74.0	-24.6	1.00 H	44	46.4	3.0
6	4924.00	36.2 AV	54.0	-17.8	1.00 H	44	33.2	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	*2462.00	119.7 PK			1.37 V	0	87.8	31.9
2	*2462.00	106.4 AV			1.37 V	0	74.5	31.9
3	2483.50	66.5 PK	74.0	-7.5	1.37 V	0	34.6	31.9
4	2483.50	52.3 AV	54.0	-1.7	1.37 V	0	20.4	31.9
5	4924.00	49.1 PK	74.0	-24.9	2.62 V	300	46.1	3.0
6	4924.00	35.7 AV	54.0	-18.3	2.62 V	300	32.7	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	802.11ax (HE40)	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	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	2390.00	64.3 PK	74.0	-9.7	1.73 H	358	32.5	31.8
2	2390.00	52.9 AV	54.0	-1.1	1.73 H	358	21.1	31.8
3	*2422.00	121.0 PK			1.73 H	358	89.2	31.8
4	*2422.00	106.9 AV			1.73 H	358	75.1	31.8
5	2483.50	59.0 PK	74.0	-15.0	1.73 H	358	27.1	31.9
6	2483.50	46.9 AV	54.0	-7.1	1.73 H	358	15.0	31.9
7	4844.00	53.6 PK	74.0	-20.4	1.04 H	44	50.7	2.9
8	4844.00	39.9 AV	54.0	-14.1	1.04 H	44	37.0	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	66.7 PK	74.0	-7.3	1.55 V	1	34.9	31.8
2	2390.00	51.6 AV	54.0	-2.4	1.55 V	1	19.8	31.8
3	*2422.00	121.6 PK			1.55 V	1	89.8	31.8
4	*2422.00	107.3 AV			1.55 V	1	75.5	31.8
5	2483.50	56.6 PK	74.0	-17.4	1.55 V	1	24.7	31.9
6	2483.50	49.8 AV	54.0	-4.2	1.55 V	1	17.9	31.9
7	4844.00	51.0 PK	74.0	-23.0	2.62 V	294	48.1	2.9
8	4844.00	37.1 AV	54.0	-16.9	2.62 V	294	34.2	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	802.11ax (HE40)	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	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	2390.00	59.2 PK	74.0	-14.8	1.73 H	358	27.4	31.8
2	2390.00	48.5 AV	54.0	-5.5	1.73 H	358	16.7	31.8
3	*2437.00	118.7 PK			1.73 H	358	86.9	31.8
4	*2437.00	105.3 AV			1.73 H	358	73.5	31.8
5	2483.50	66.1 PK	74.0	-7.9	1.73 H	358	34.2	31.9
6	2483.50	53.0 AV	54.0	-1.0	1.73 H	358	21.1	31.9
7	4874.00	51.8 PK	74.0	-22.2	1.00 H	46	48.8	3.0
8	4874.00	38.8 AV	54.0	-15.2	1.00 H	46	35.8	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	62.5 PK	74.0	-11.5	1.55 V	1	30.7	31.8
2	2390.00	50.0 AV	54.0	-4.0	1.55 V	1	18.2	31.8
3	*2437.00	119.0 PK			1.55 V	1	87.2	31.8
4	*2437.00	105.6 AV			1.55 V	1	73.8	31.8
5	2483.50	63.4 PK	74.0	-10.6	1.55 V	1	31.5	31.9
6	2483.50	50.9 AV	54.0	-3.1	1.55 V	1	19.0	31.9
7	4874.00	49.0 PK	74.0	-25.0	2.48 V	293	46.0	3.0
8	4874.00	36.5 AV	54.0	-17.5	2.48 V	293	33.5	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	802.11ax (HE40)	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	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	2390.00	57.0 PK	74.0	-17.0	1.89 H	358	25.2	31.8
2	2390.00	43.1 AV	54.0	-10.9	1.89 H	358	11.3	31.8
3	*2452.00	114.9 PK			1.89 H	358	83.0	31.9
4	*2452.00	101.8 AV			1.89 H	358	69.9	31.9
5	2483.50	64.2 PK	74.0	-9.8	1.89 H	358	32.3	31.9
6	2483.50	51.1 AV	54.0	-2.9	1.89 H	358	19.2	31.9
7	4904.00	49.2 PK	74.0	-24.8	1.00 H	44	46.2	3.0
8	4904.00	36.0 AV	54.0	-18.0	1.00 H	44	33.0	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	55.8 PK	74.0	-18.2	1.37 V	0	24.0	31.8
2	2390.00	43.9 AV	54.0	-10.1	1.37 V	0	12.1	31.8
3	*2452.00	115.4 PK			1.37 V	0	83.5	31.9
4	*2452.00	102.2 AV			1.37 V	0	70.3	31.9
5	2483.50	63.4 PK	74.0	-10.6	1.37 V	0	31.5	31.9
6	2483.50	50.6 AV	54.0	-3.4	1.37 V	0	18.7	31.9
7	4904.00	48.9 PK	74.0	-25.1	2.62 V	296	45.9	3.0
8	4904.00	35.5 AV	54.0	-18.5	2.62 V	296	32.5	3.0

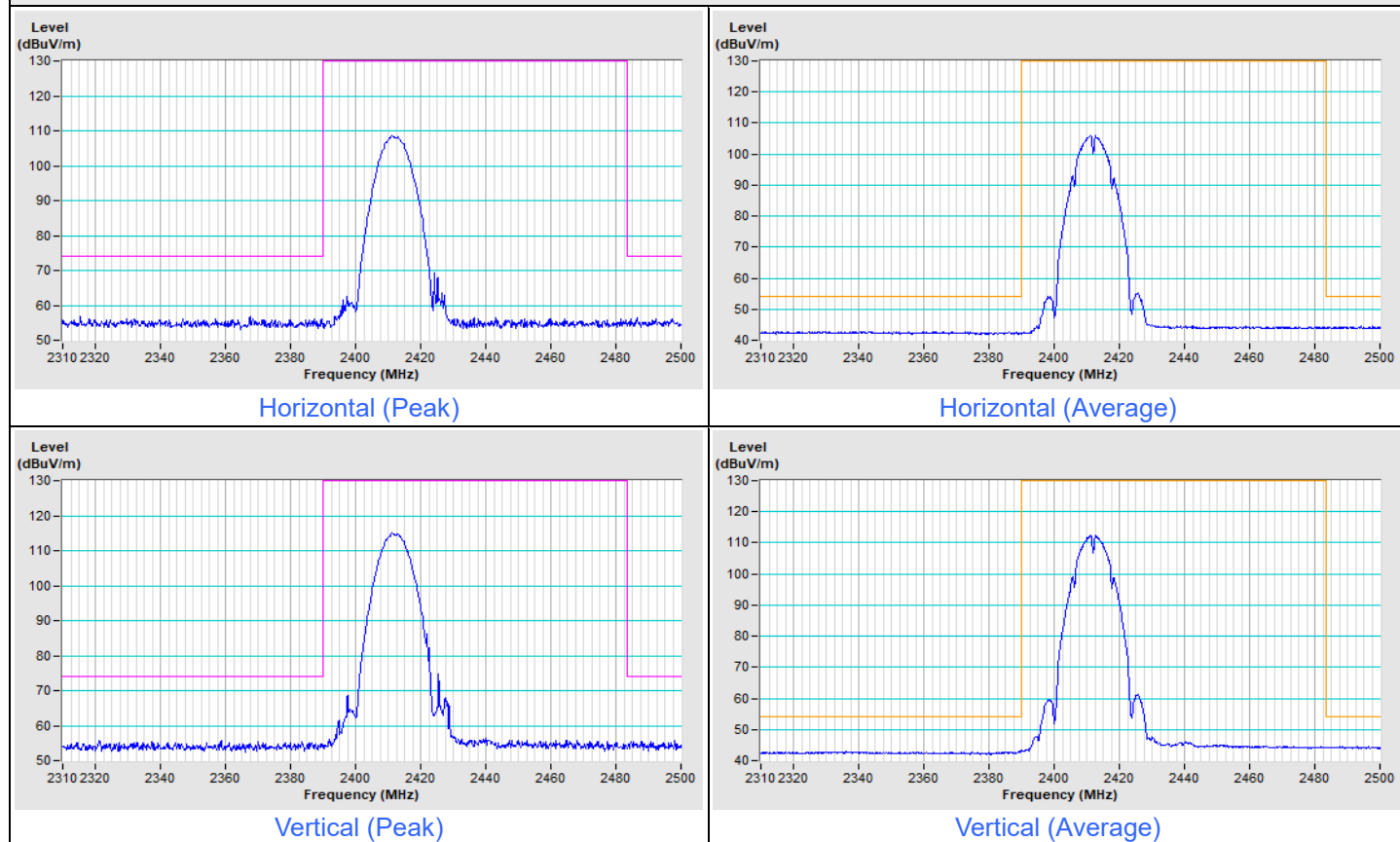
Remarks:

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.

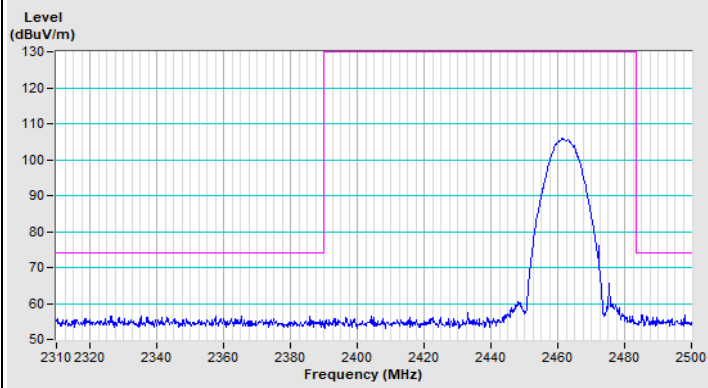
Mode A

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=10 Hz, DET=Peak
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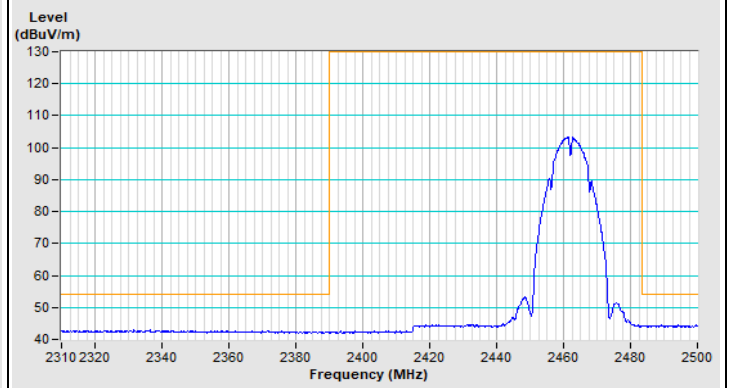
802.11b Channel 1



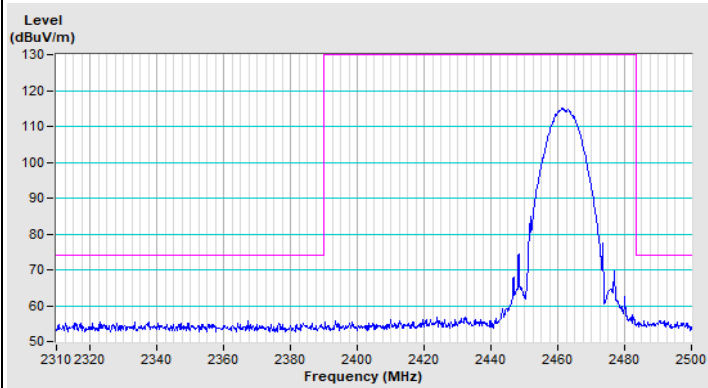
802.11b Channel 11



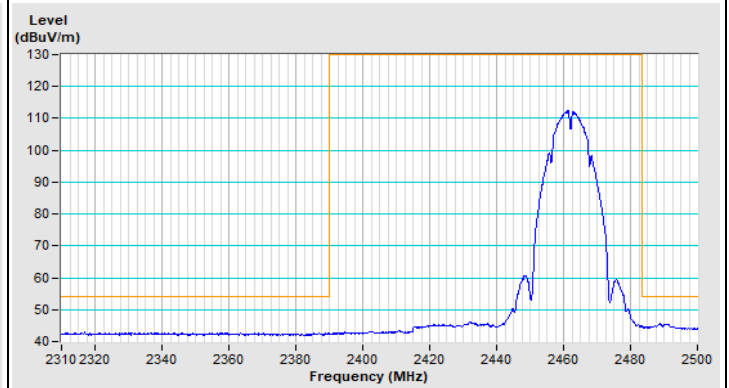
Horizontal (Peak)



Horizontal (Average)



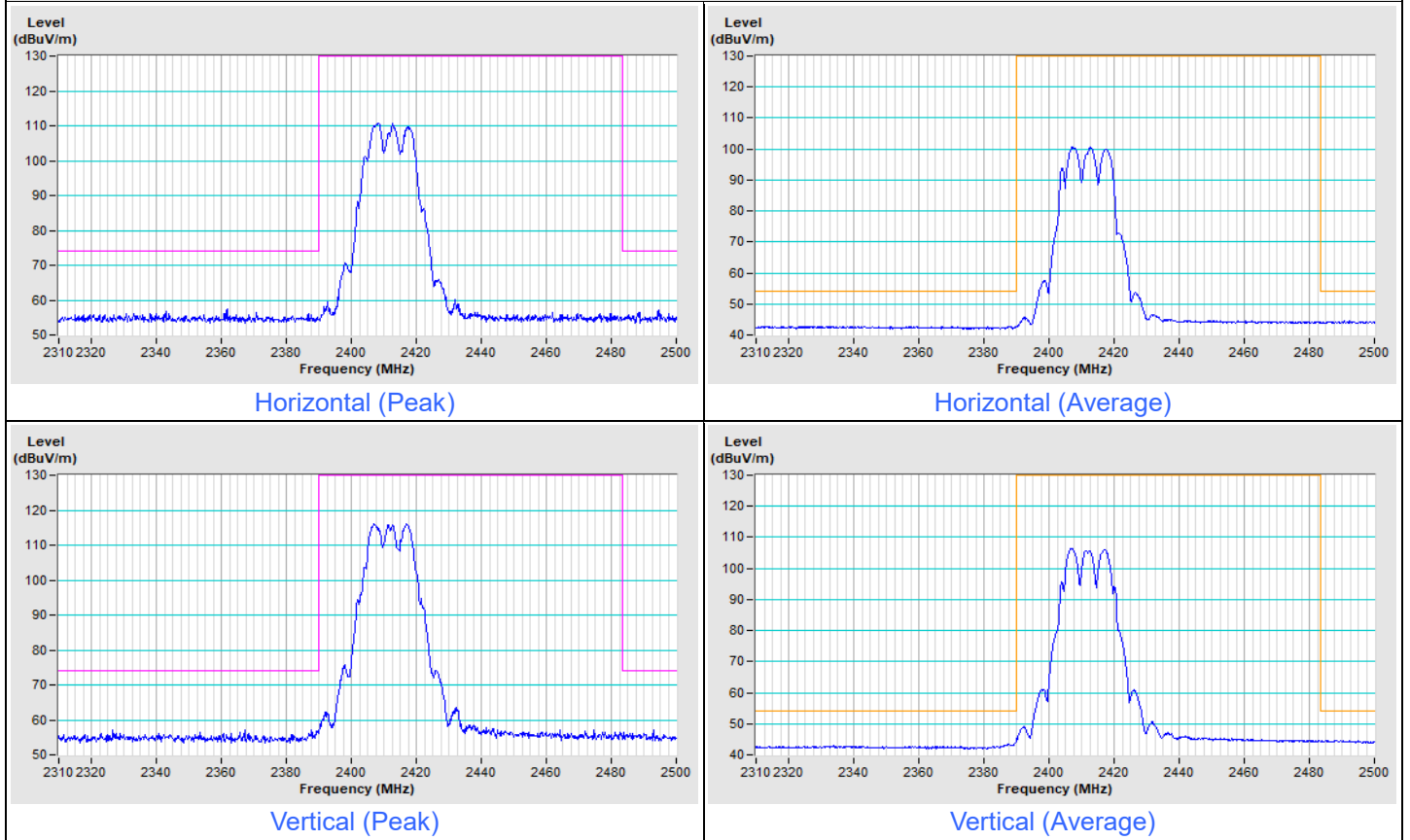
Vertical (Peak)



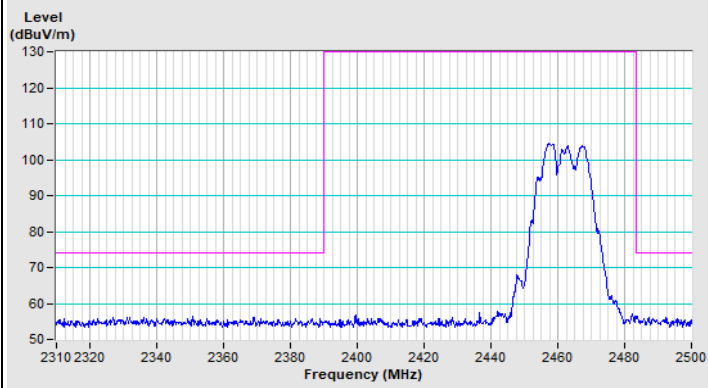
Vertical (Average)

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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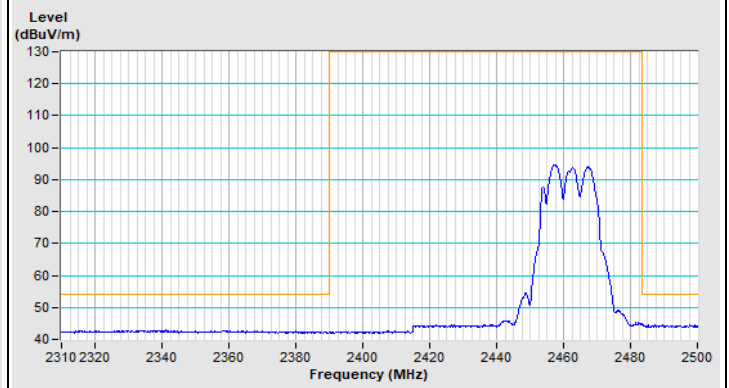
802.11g Channel 1



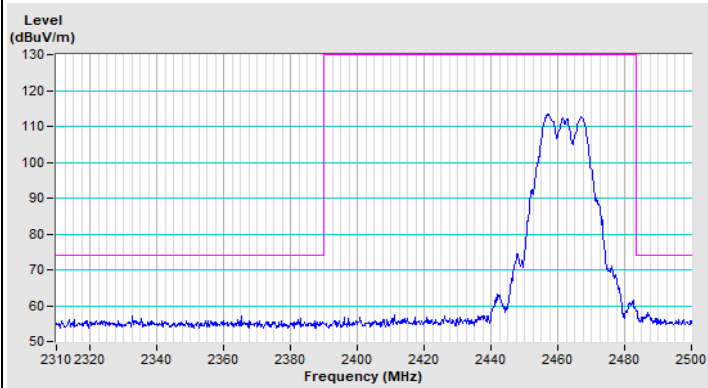
802.11g Channel 11



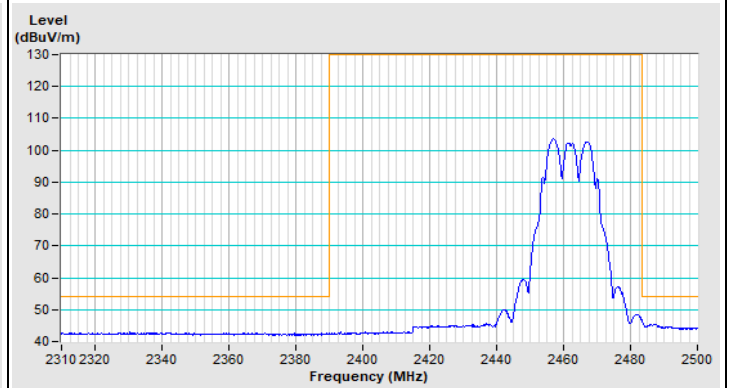
Horizontal (Peak)



Horizontal (Average)



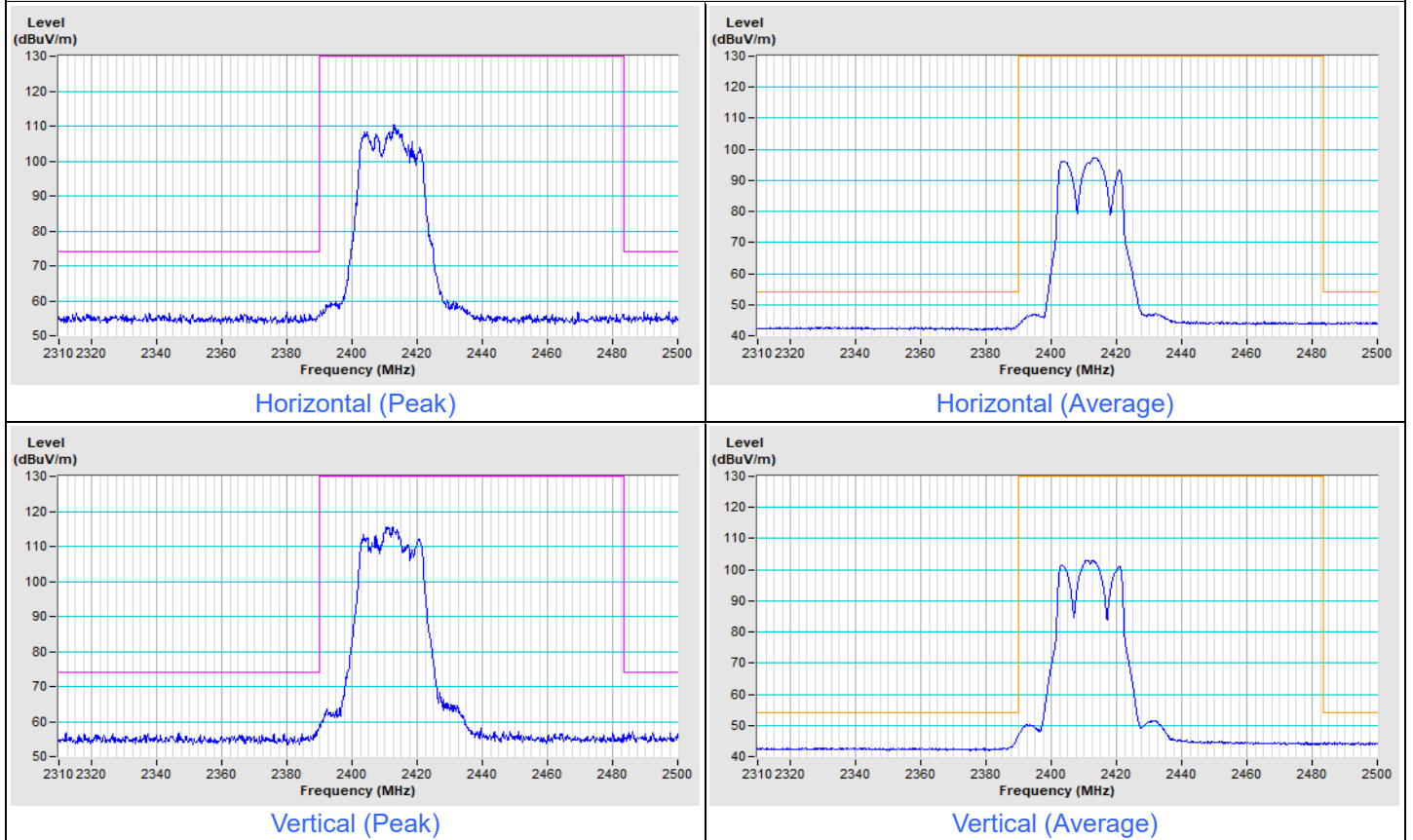
Vertical (Peak)



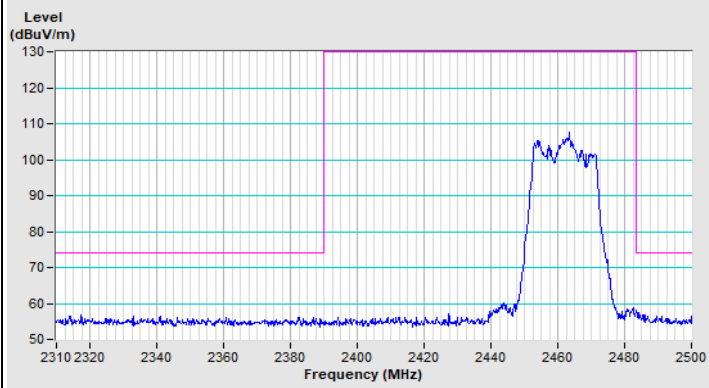
Vertical (Average)

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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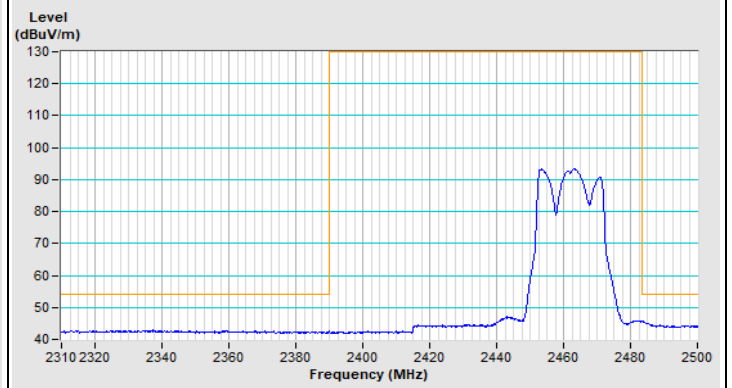
802.11ax (HE20) Channel 1



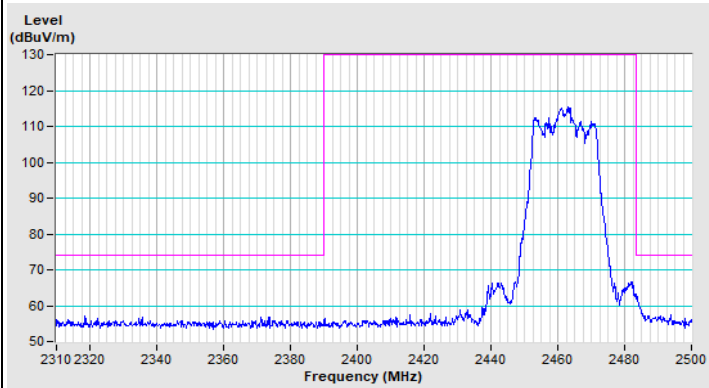
802.11ax (HE20) Channel 11



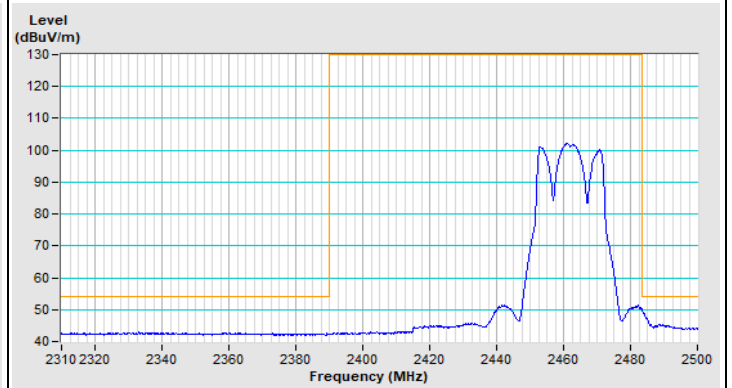
Horizontal (Peak)



Horizontal (Average)



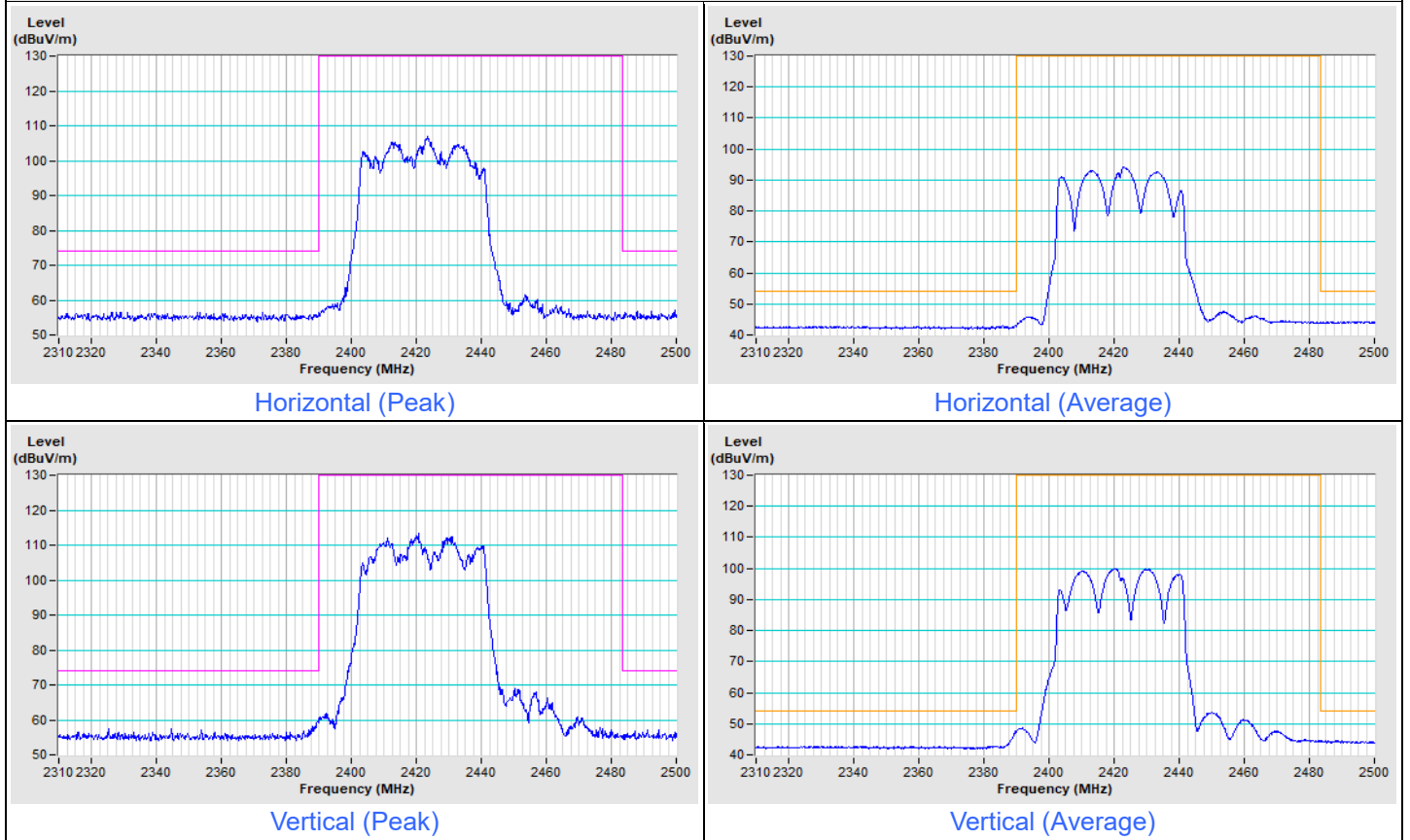
Vertical (Peak)



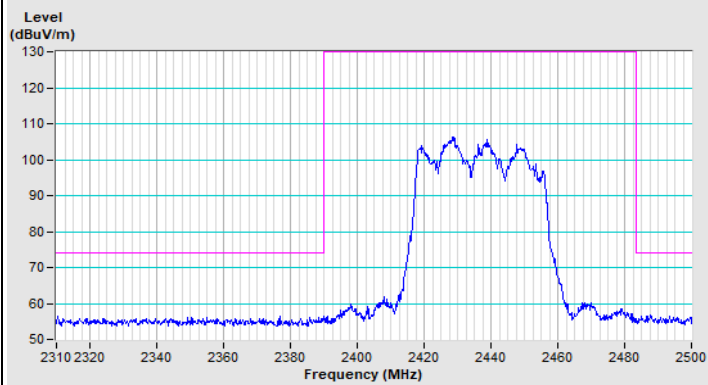
Vertical (Average)

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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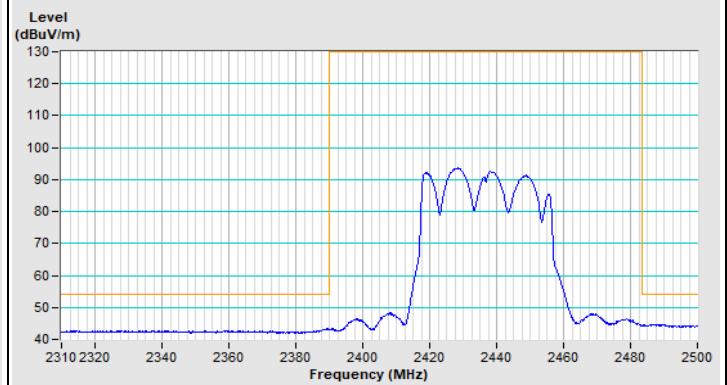
802.11ax (HE40) Channel 3



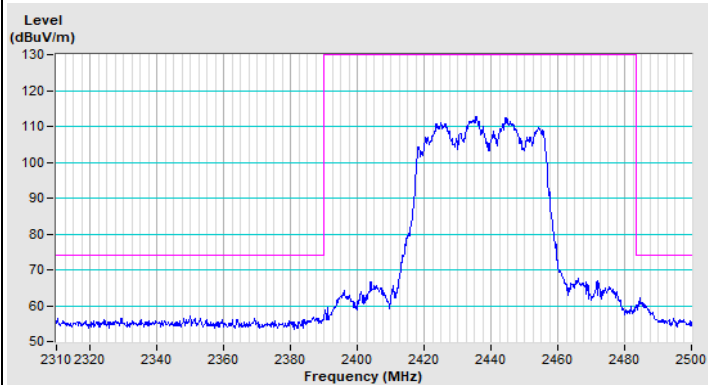
802.11ax (HE40) Channel 6



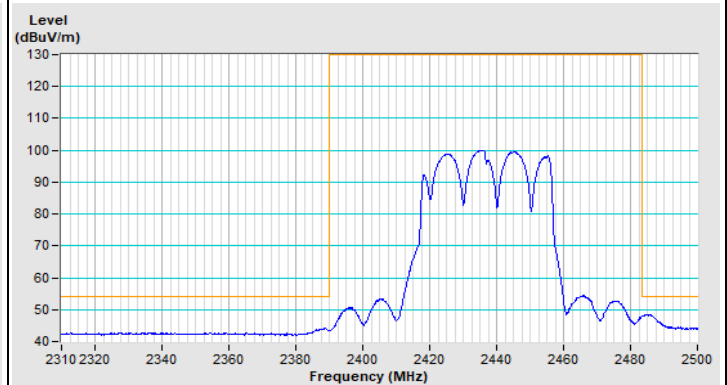
Horizontal (Peak)



Horizontal (Average)

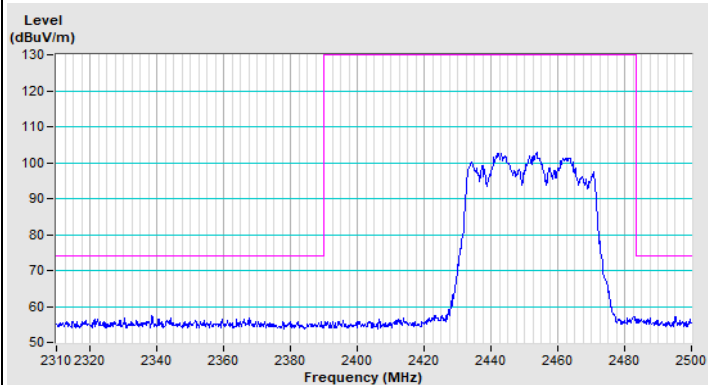


Vertical (Peak)

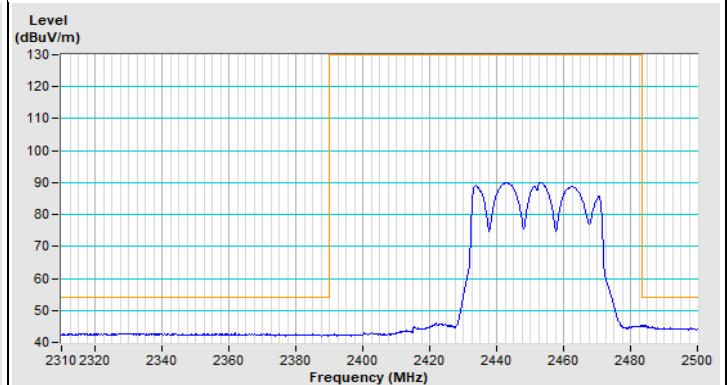


Vertical (Average)

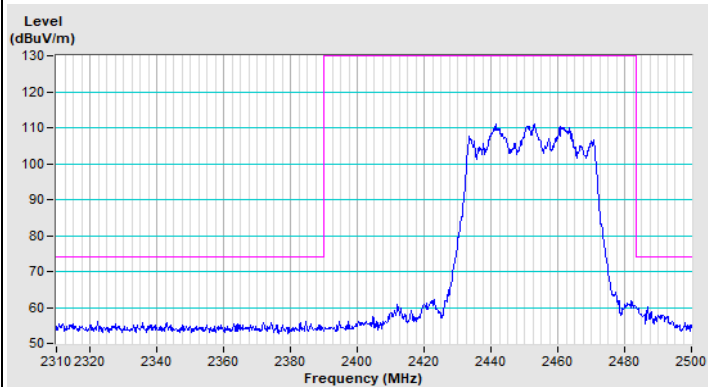
802.11ax (HE40) Channel 9



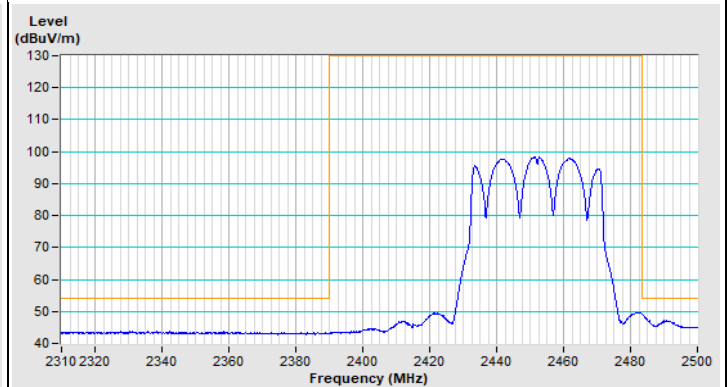
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

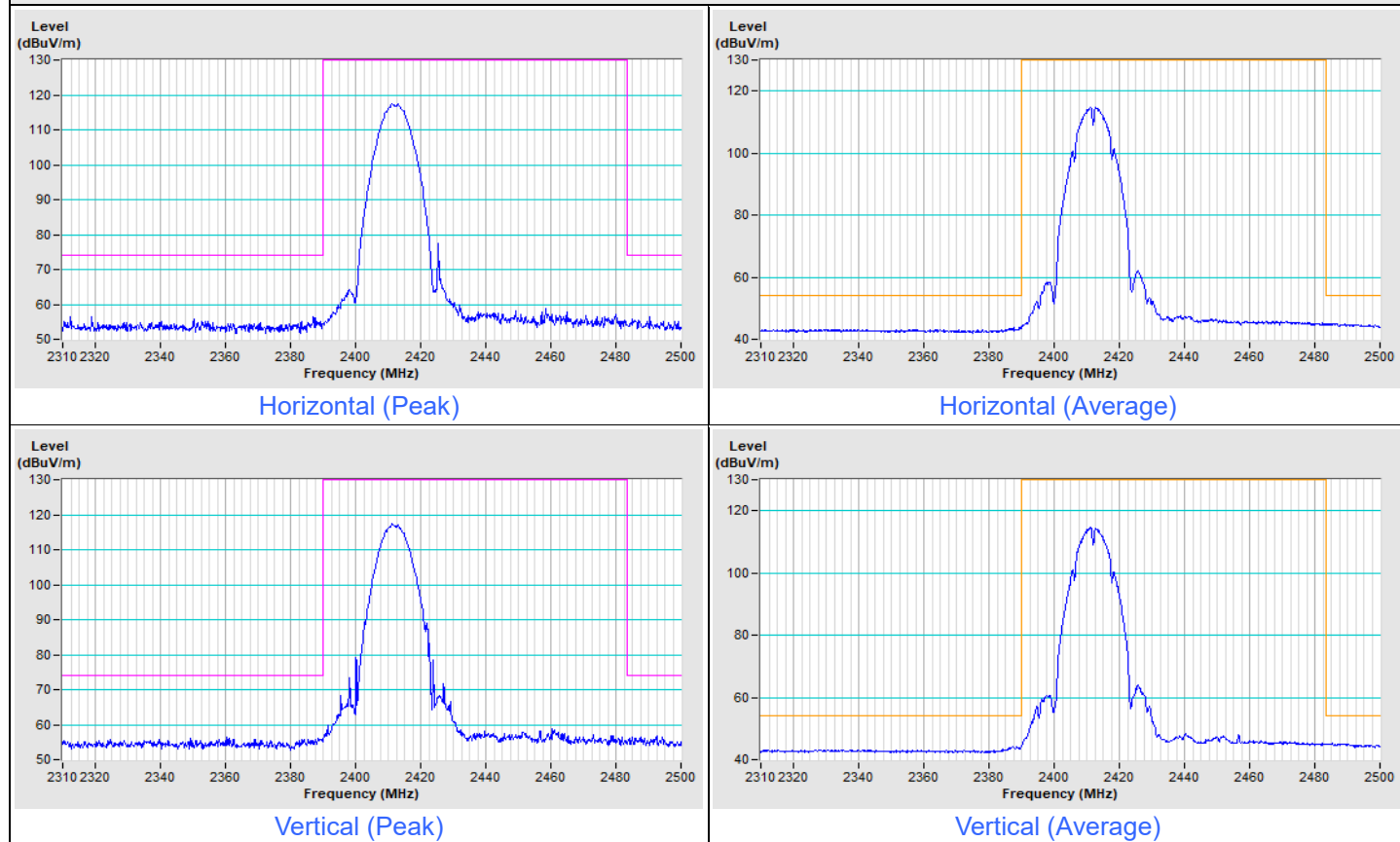


Vertical (Average)

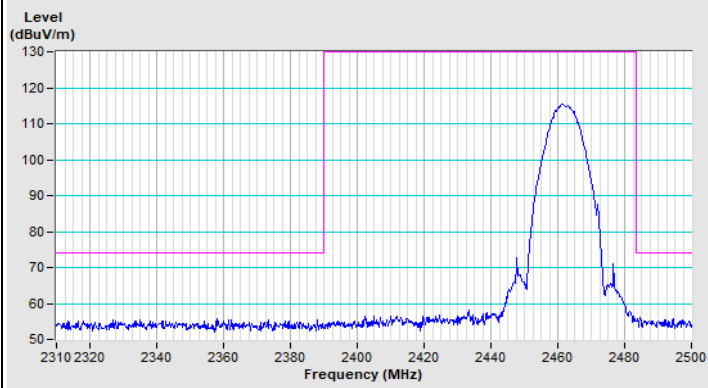
Mode B

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=10 Hz, DET=Peak
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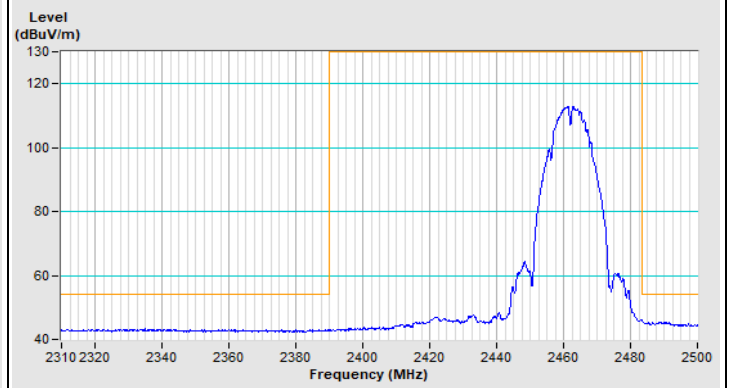
802.11b Channel 1



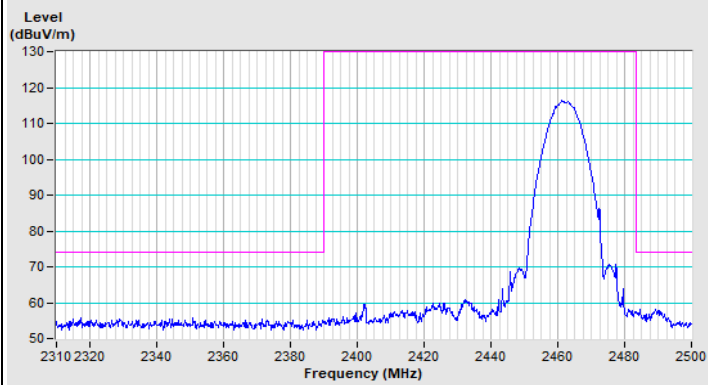
802.11b Channel 11



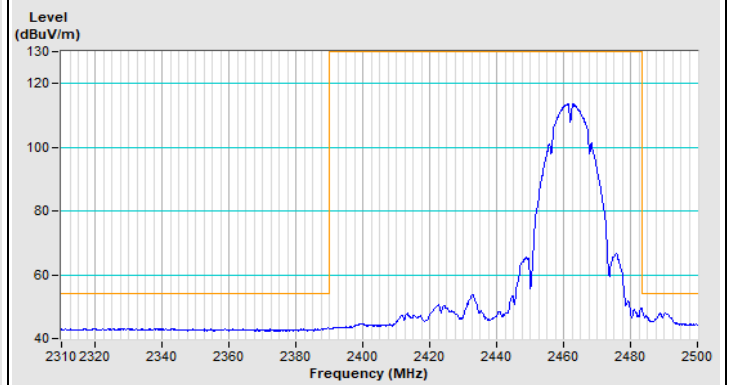
Horizontal (Peak)



Horizontal (Average)



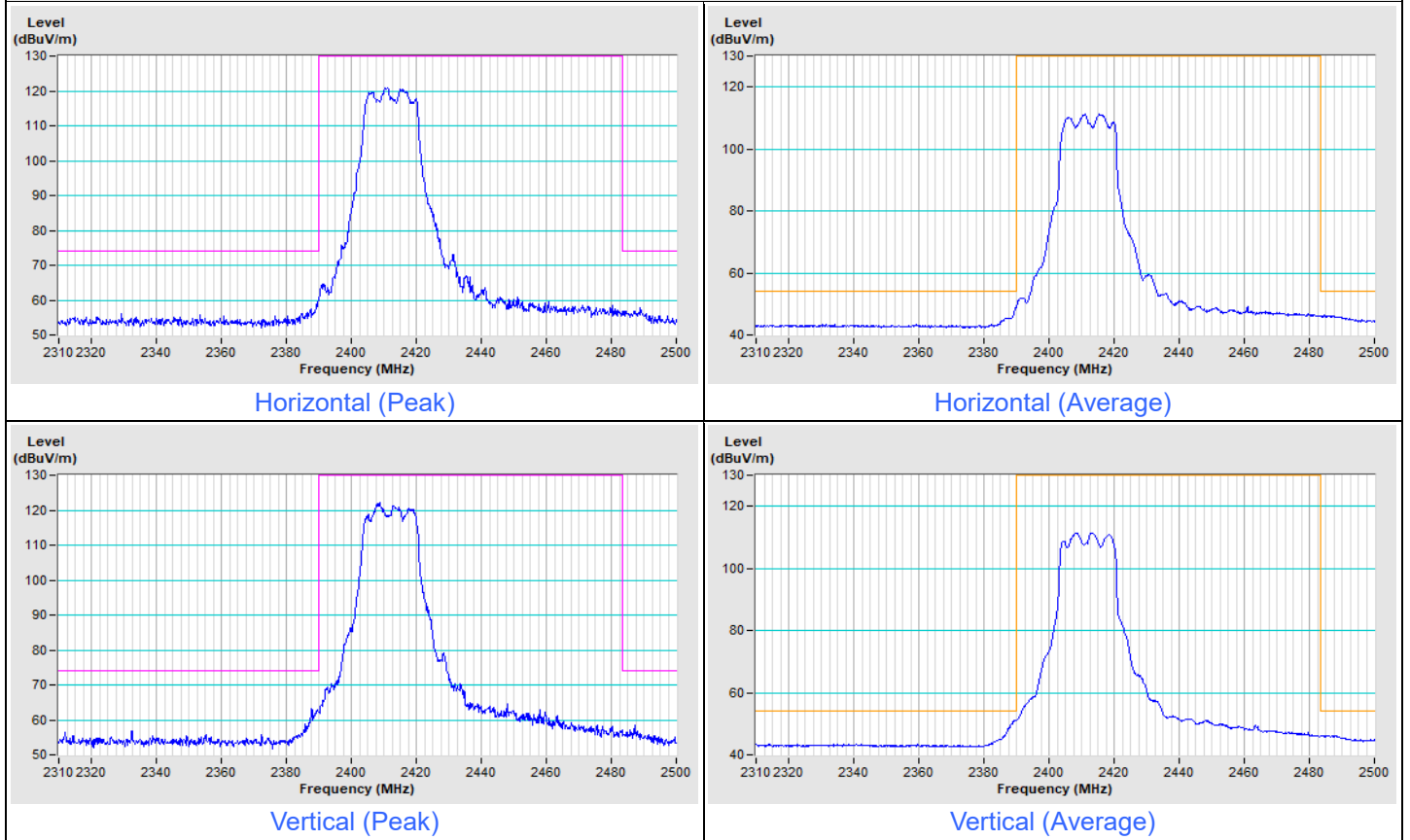
Vertical (Peak)

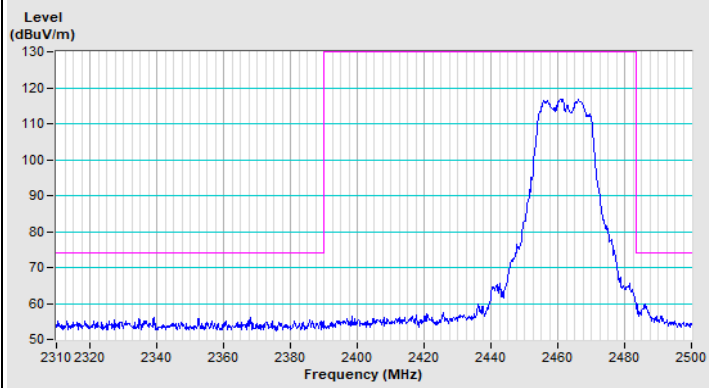


Vertical (Average)

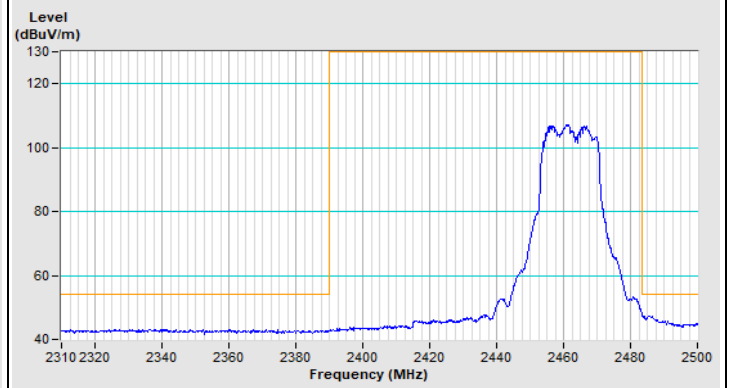
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11g Channel 1

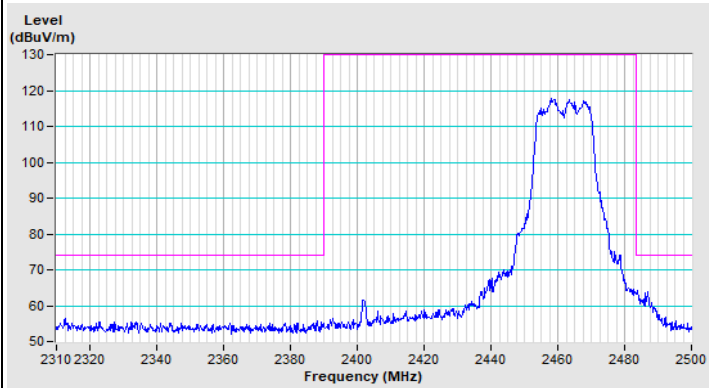


802.11g Channel 11

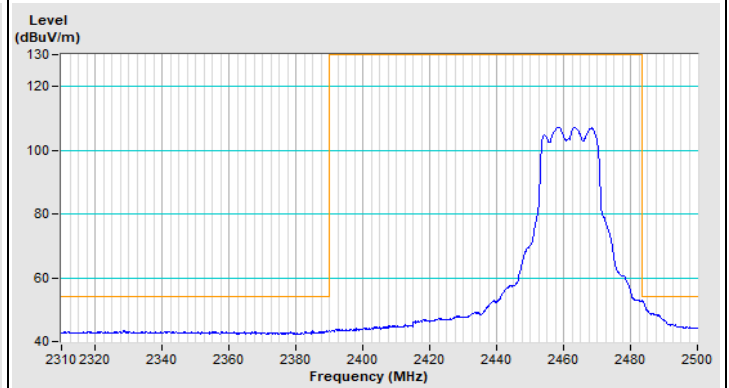
Horizontal (Peak)



Horizontal (Average)



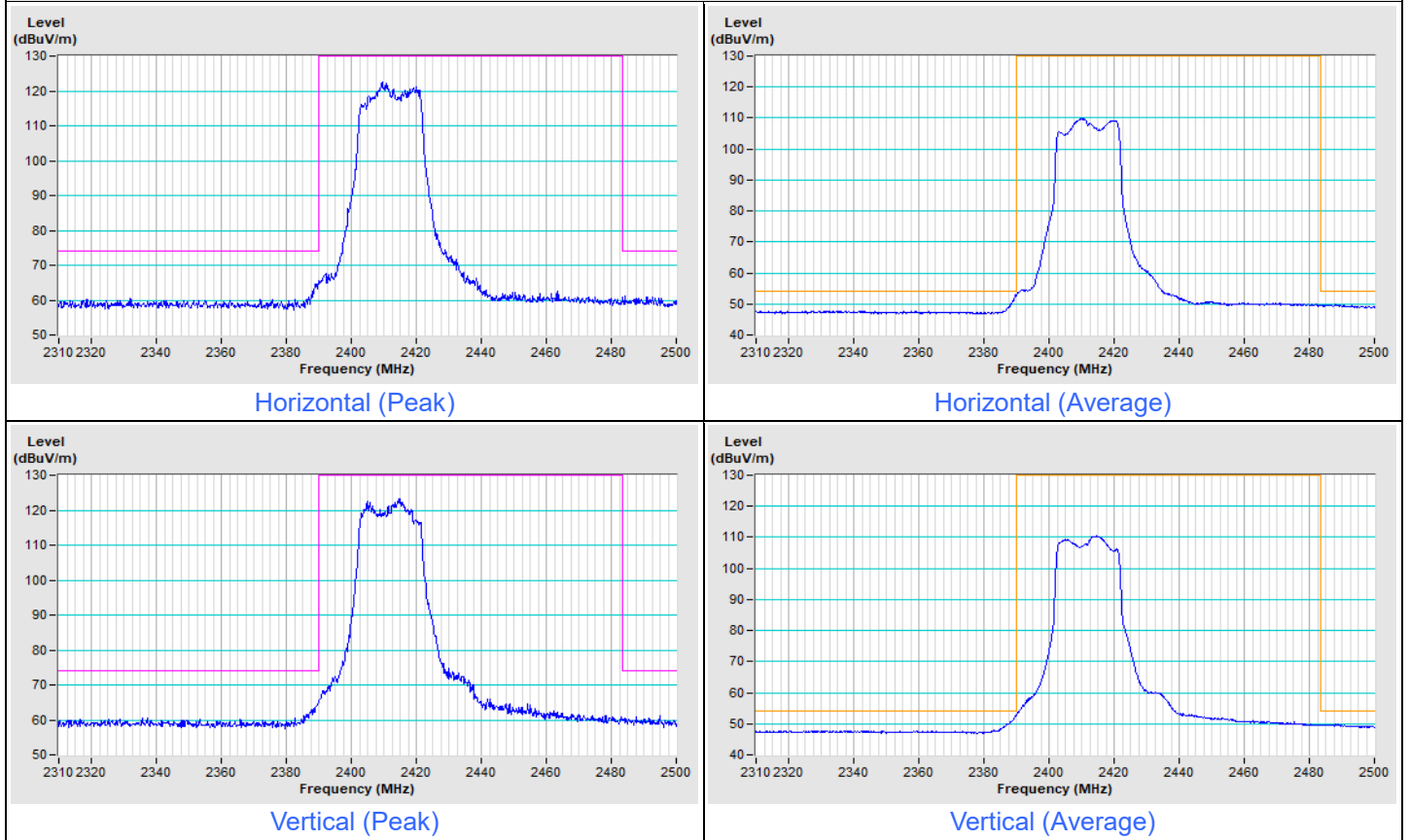
Vertical (Peak)



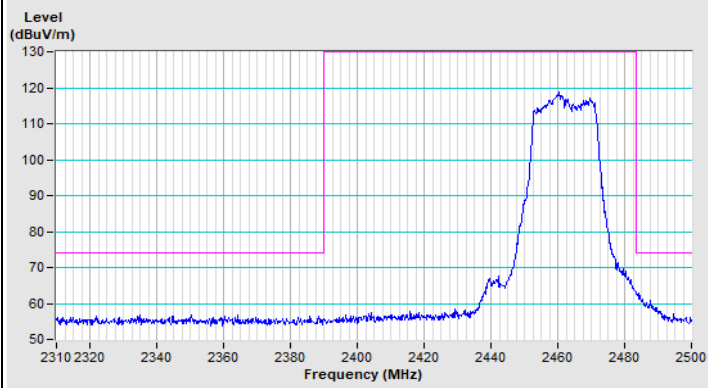
Vertical (Average)

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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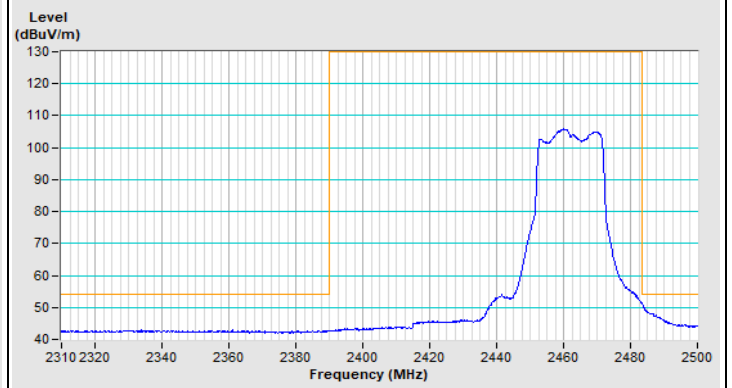
802.11ax (HE20) Channel 1



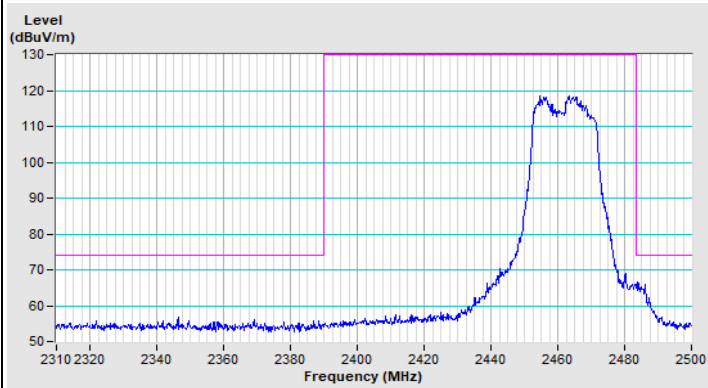
802.11ax (HE20) Channel 11



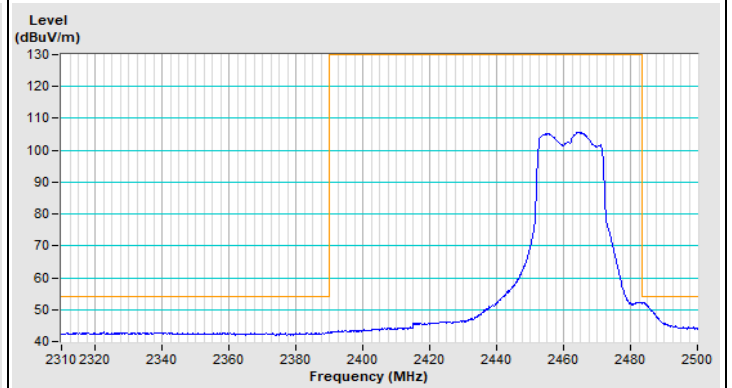
Horizontal (Peak)



Horizontal (Average)



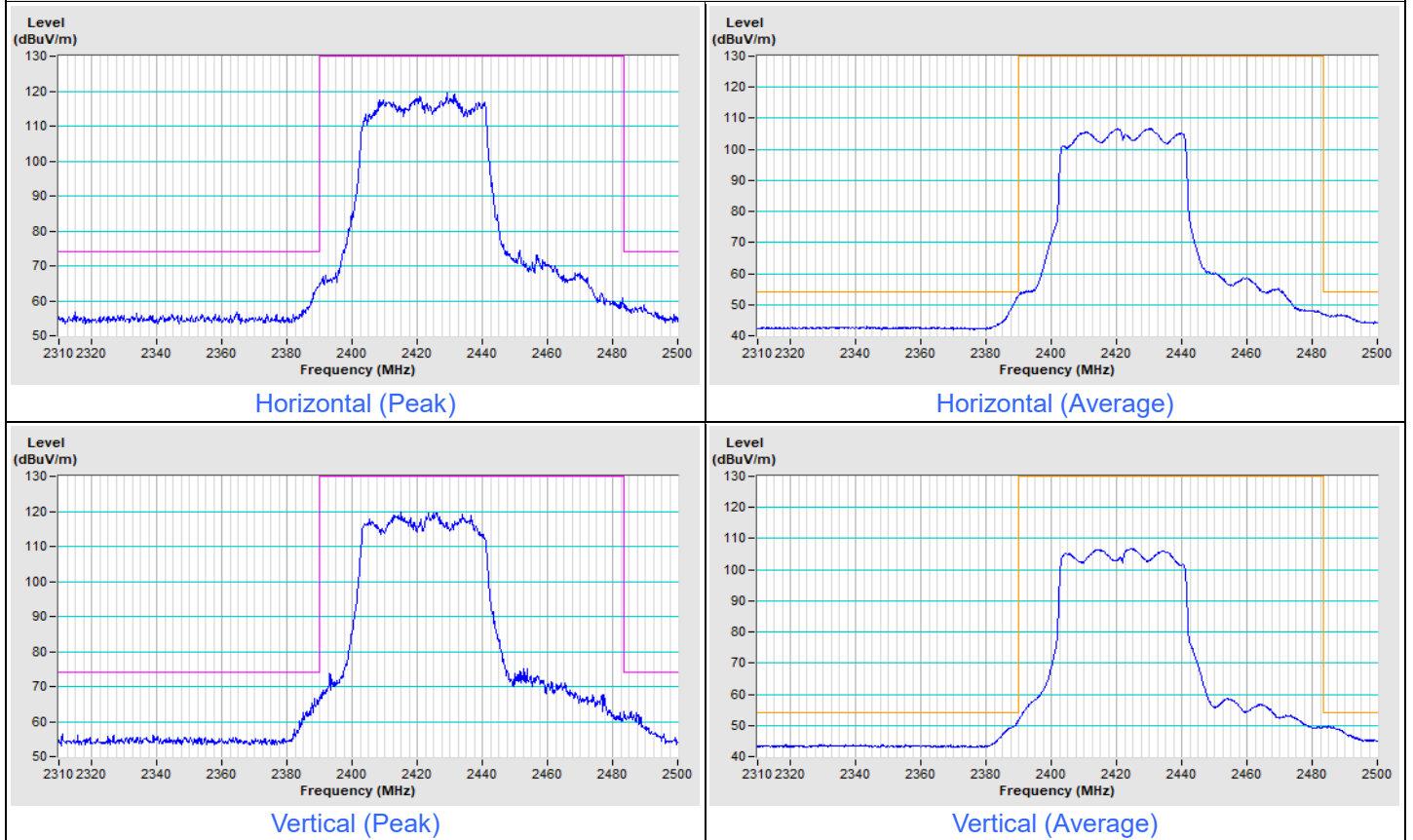
Vertical (Peak)



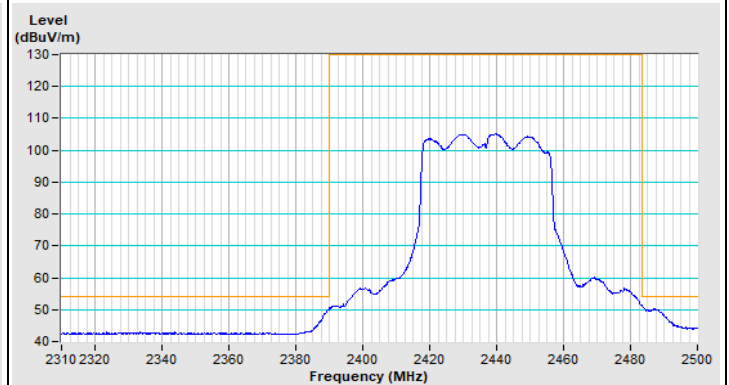
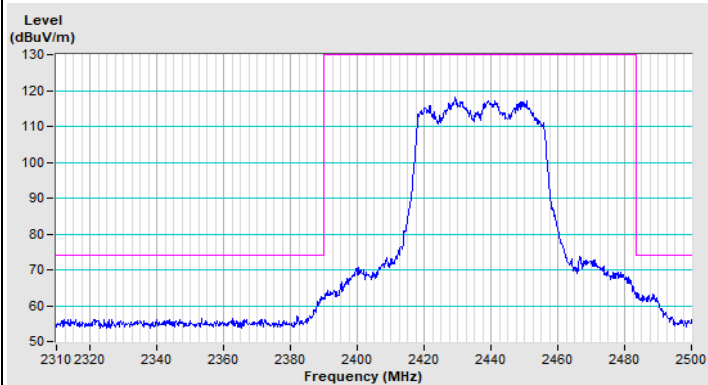
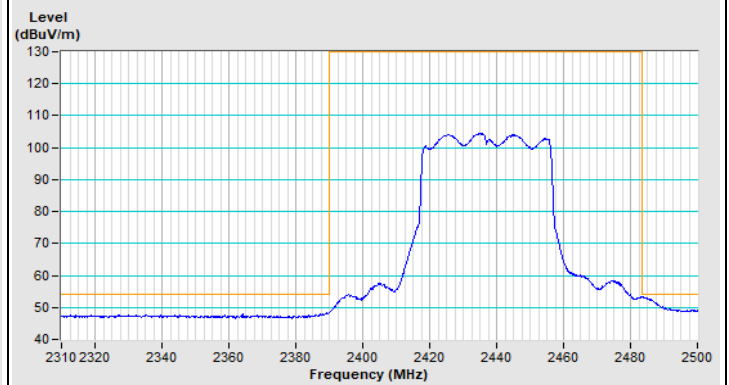
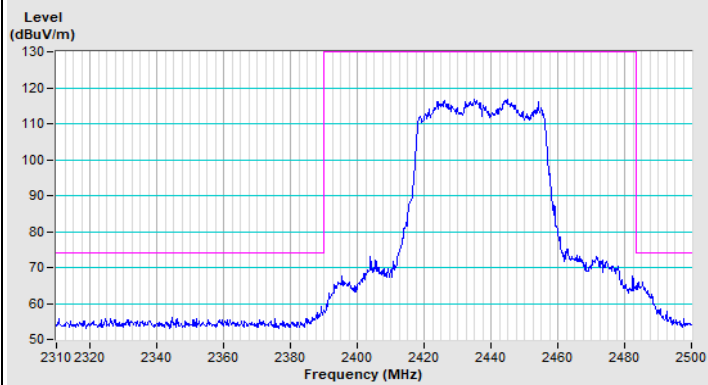
Vertical (Average)

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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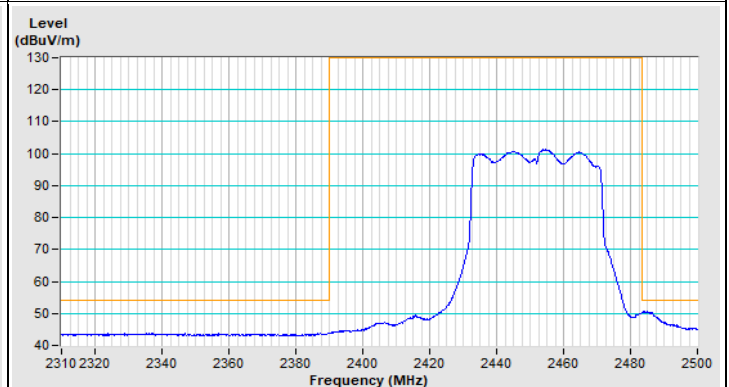
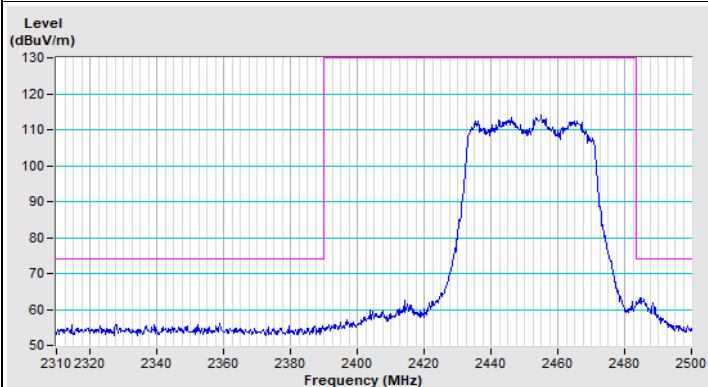
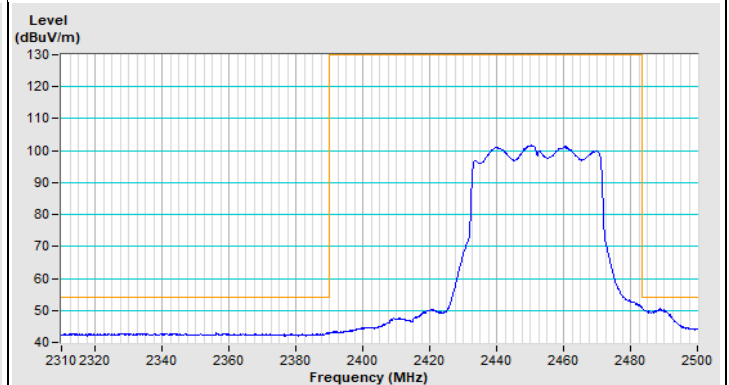
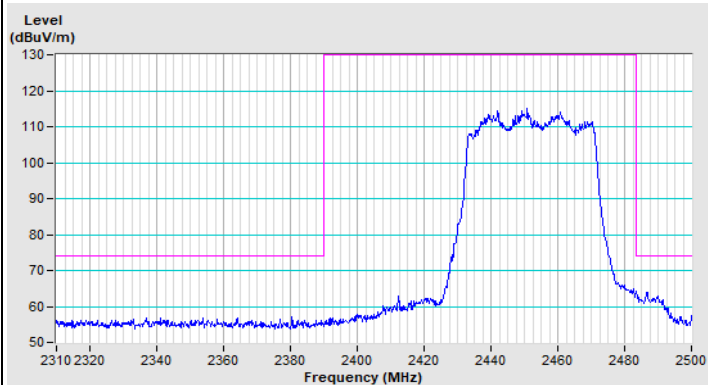
802.11ax (HE40) Channel 3



802.11ax (HE40) Channel 6



802.11ax (HE40) Channel 9



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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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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