FCC Test Report

Report No.:	RFBHOX-WTW-P22010373-1
FCC ID:	A4R-G28DR
Test Model:	G28DR
Received Date:	Feb. 08, 2022
Test Date:	Feb. 20, 2022 ~ Mar. 11, 2022
Issued Date:	May 06, 2022
Applicant:	Google LLC
Address:	1600 Amphitheatre Parkway, Mountain View, CA 94043, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RFBHOX-WTW-P22010373-1	Original Release	May 06, 2022

1 Certificate of Conformity

Product:	Wireless Device
Brand:	Google
Test Model:	G28DR
Sample Status:	Engineering Sample
Applicant:	Google LLC
Test Date:	Feb. 20, 2022 ~ Mar. 11, 2022
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247) ANSI C63.10:2013

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.

Prepared by : Vera Huang , **Date:** May 06, 2022

Vera Huang / Specialist

Approved by : Jeremy Lin , **Date:** May 06, 2022

Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	**Test Item**	**Result**	**Remarks**
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -15.34 dB at 0.57000 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.51 dB at 2483.50 MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:

1. For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
2. 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	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless Device
Brand	Google
Test Model	G28DR
Status of EUT	Engineering Sample
Power Supply Rating	5.0 Vdc (host equipment) 3.65 Vdc (Battery)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 72.2 Mbps
Operating Frequency	2412 ~ 2462 MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20)
Output Power	Ant. 1: 129.718 mW Ant. 2: 181.134 mW
Antenna Type	PIFA antenna
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	Tx Function
802.11b	1TX
802.11g	1TX
802.11n (HT20)	1TX

2. The antenna information is listed as below.

Frequency (MHz)	Antenna Peak Gain (dBi)			
	Primary Antenna (Ant. 2)		Diversity Antenna (Ant. 1)	
	Horizontal	Vertical	Horizontal	Vertical
2402	2.58	-2.22	1.12	-0.72
2412	2.68	-2.77	0.95	-0.61
2440	2.79	-2.28	0.4	-0.53
2462	2.58	-3.02	0.08	-0.5
2472	2.56	-2.79	0.04	-0.3

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

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

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To					Description
	RE≥1G	RE<1G	PLC	APCM	Power	
-	√	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1 GHz **RE<1G:** Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement
Power: Maximum Output Power Measurement

Note:
1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.
2. For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1 GHz):

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
-	802.11g	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.5

Radiated Emission Test (Below 1 GHz):

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	6	DSSS	DBPSK	1.0

Power Line Conducted Emission Test:

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	6	DSSS	DBPSK	1.0

Bandedge Measurement:

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
-	802.11g	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.5

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
-	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

Maximum Output Power Measurement:

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
-	802.11g	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6.5

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	21 deg. C, 71 % RH	120 Vac, 60 Hz	Tim Chen
RE<1G	21 deg. C, 71 % RH	120 Vac, 60 Hz	Thomas Cheng
PLC	18 deg. C, 63 % RH	120 Vac, 60 Hz	Thomas Cheng
APCM	23 deg. C, 68 % RH	120 Vac, 60 Hz	Ivan Tseng
Power	23 deg. C, 68 % RH	120 Vac, 60 Hz	Ivan Tseng

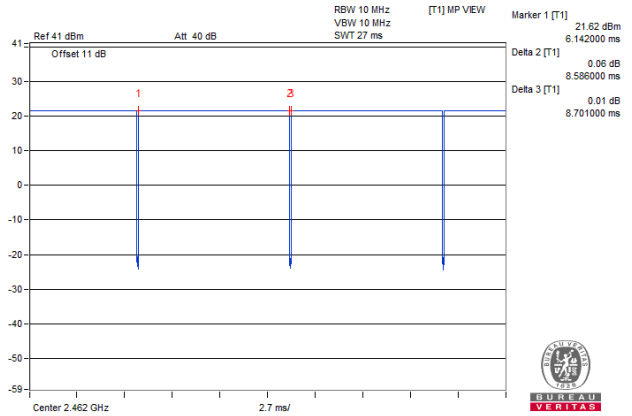
3.3 Duty Cycle of Test Signal

Duty cycle of test signal is ≥ 98 %, duty factor is not required.
Duty cycle of test signal is < 98 %, duty factor shall be considered.

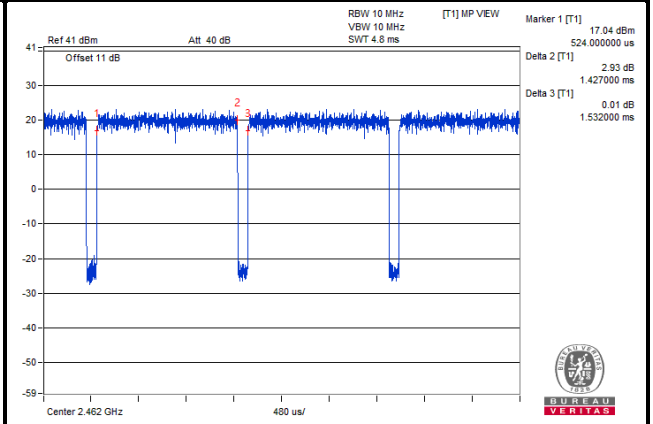
Ant. 1

802.11b: Duty cycle = 8.586/8.701 = 0.987, Duty cycle of test signal is ≥ 98 %, duty factor is not required.
802.11g: Duty cycle = 1.427/1.532 = 0.931, Duty factor = 10 * log(1/0.931) = 0.31
802.11n (HT20): Duty cycle = 1.333/1.445 = 0.922, Duty factor = 10 * log(1/0.922) = 0.35

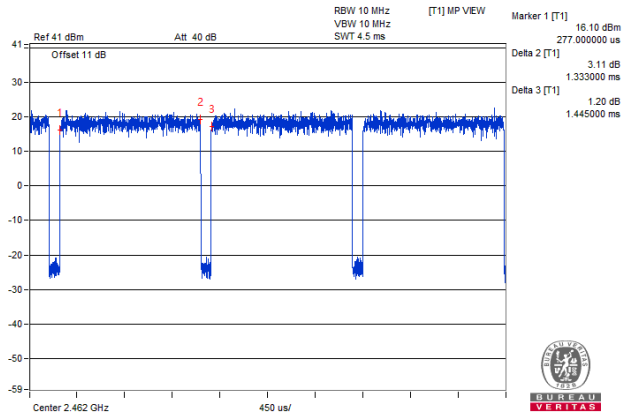
802.11b



802.11g



802.11n (HT20)



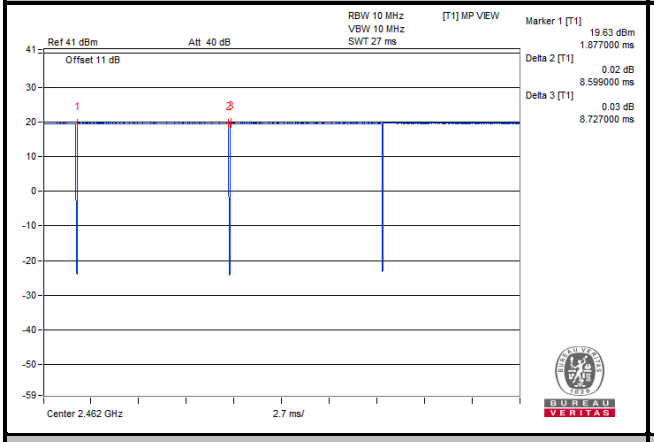
Ant. 2

802.11b: Duty cycle = 8.599/8.727 = 0.985, Duty cycle of test signal is ≥ 98 %, duty factor is not required.

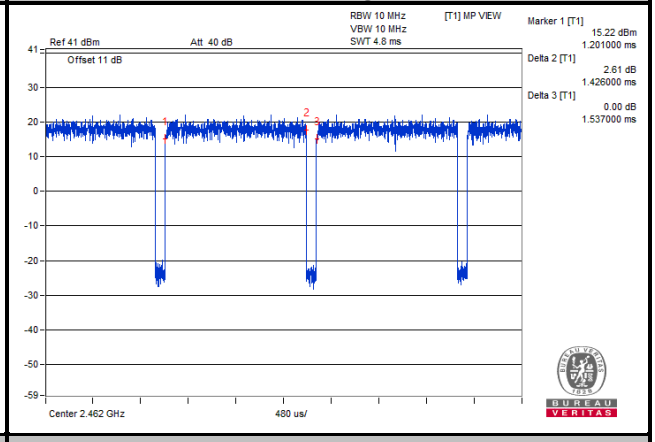
802.11g: Duty cycle = 1.426/1.537 = 0.928, Duty factor = 10 * log(1/0.928) = 0.33

802.11n (HT20): Duty cycle = 1.335/1.447 = 0.923, Duty factor = 10 * log(1/0.923) = 0.35

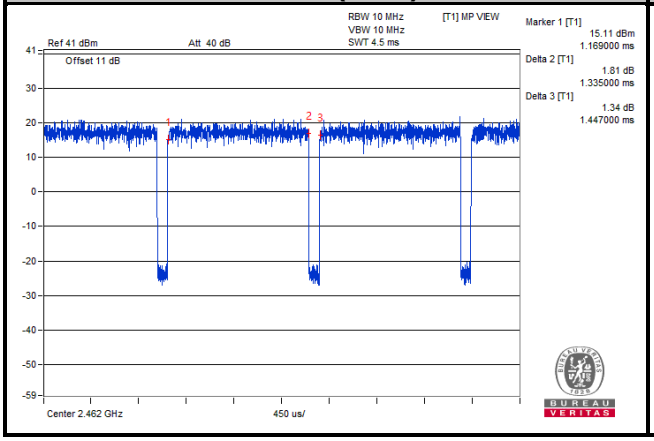
802.11b



802.11g



802.11n (HT20)



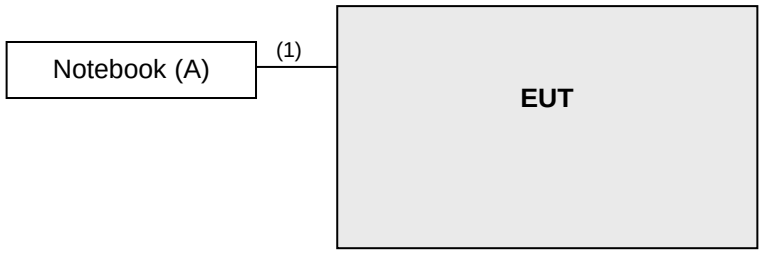
3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	DELL	Inspiron 14R	8LRKKW1	N/A	--

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.5	Y	0	--

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer Agilent	N9038A	MY51210203	Sep. 22, 2021	Sep. 21, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 14, 2021	Nov. 13, 2022
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Oct. 28, 2021	Oct. 27, 2022
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
Loop Antenna	EM-6879	269	Sep. 16, 2021	Sep. 15, 2022
Preamplifier EMCI	EMC001340	980201	Sep. 15, 2021	Sep. 14, 2022
Preamplifier EMCI	EMC 012645	980115	Oct. 05, 2021	Oct. 04, 2022
Preamplifier EMCI	EMC 330H	980112	Oct. 05, 2021	Oct. 04, 2022
Power Meter Anritsu	ML2495A	1012010	Sep. 09, 2021	Sep. 08, 2022
Power Sensor Anritsu	MA2411B	1315050	Sep. 09, 2021	Sep. 08, 2022
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	171005	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 05, 2021	Oct. 04, 2022
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 18, 2022	Jan. 17, 2023
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 17, 2022	Jan. 16, 2023

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.

4.1.3 Test Procedures

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 a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to peak and average detected 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.

Note:

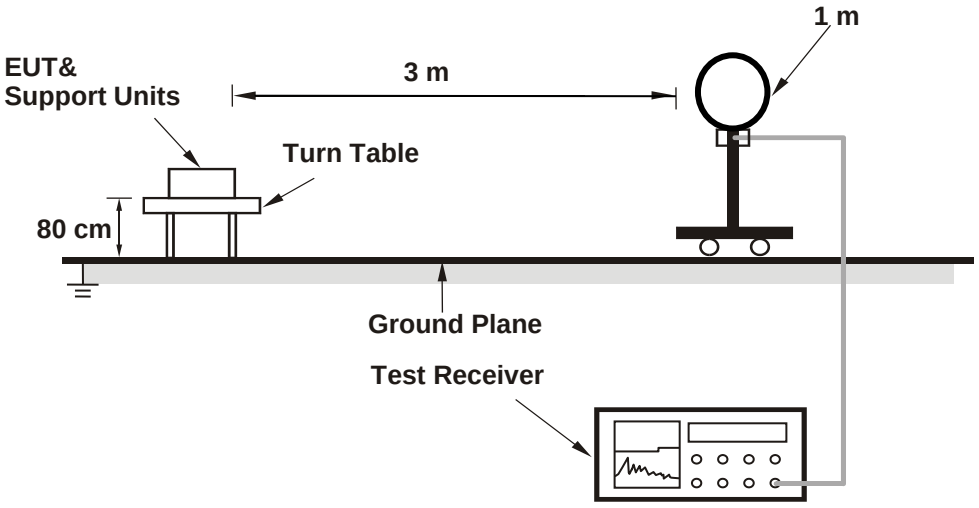
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (**Ant 1:** 11b: RBW = 1 MHz, VBW =10 Hz ; 11g: RBW = 1 MHz, VBW = 1 kHz ; 11n (HT20): RBW = 1 MHz, VBW = 1 kHz; **Ant 2:** 11b: RBW = 1 MHz, VBW =10 Hz ; 11g: RBW = 1 MHz, VBW = 1 kHz ; 11n (HT20): RBW = 1 MHz, VBW = 1 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

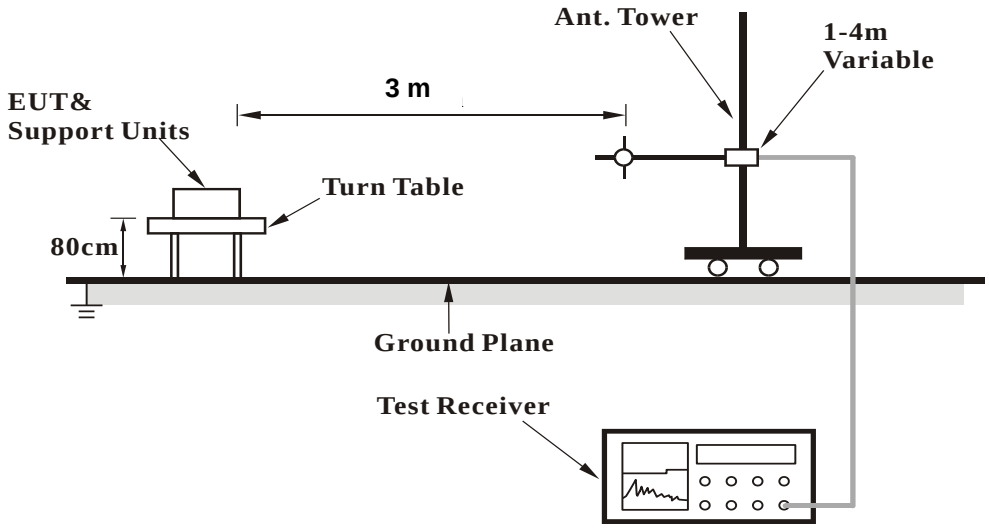
No deviation.

4.1.5 Test Set Up

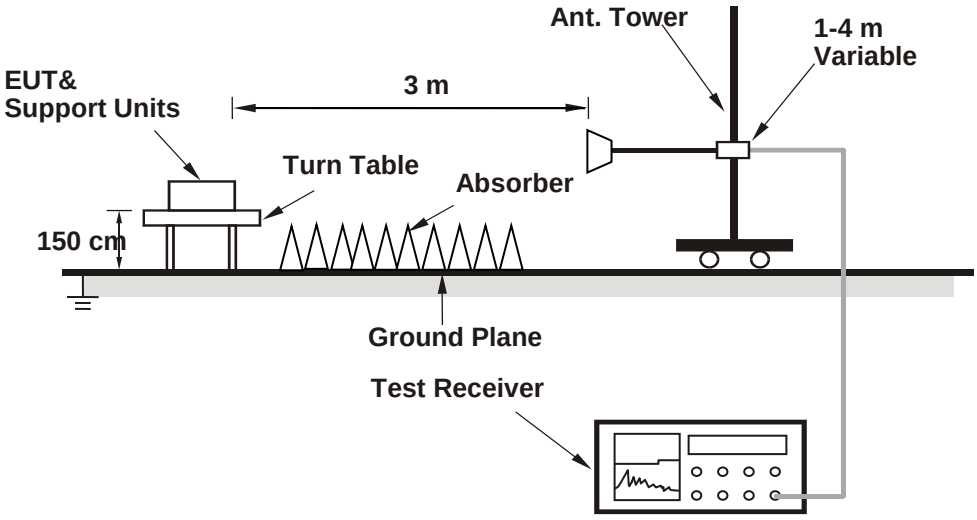
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on a testing table.
b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1 GHz Data：

Ant. 1

RF Mode	TX 802.11b	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	56.62 PK	74.00	-17.38	3.62 H	18	25.69	30.93
2	2390.00	48.78 AV	54.00	-5.22	3.62 H	18	17.85	30.93
3	*2412.00	99.69 PK			3.62 H	19	68.80	30.89
4	*2412.00	98.10 AV			3.62 H	19	67.21	30.89
5	4824.00	44.29 PK	74.00	-29.71	3.62 H	60	60.06	-15.77
6	4824.00	37.89 AV	54.00	-16.11	3.62 H	60	53.66	-15.77
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	58.50 PK	74.00	-15.50	1.00 V	98	27.57	30.93
2	2390.00	52.10 AV	54.00	-1.90	1.00 V	98	21.17	30.93
3	*2412.00	106.13 PK			1.00 V	98	75.24	30.89
4	*2412.00	104.57 AV			1.00 V	98	73.68	30.89
5	4824.00	45.27 PK	74.00	-28.73	1.00 V	95	61.04	-15.77
6	4824.00	39.46 AV	54.00	-14.54	1.00 V	95	55.23	-15.77

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.

RF Mode	TX 802.11b	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	56.44 PK	74.00	-17.56	3.95 H	36	25.51	30.93
2	2390.00	48.73 AV	54.00	-5.27	3.95 H	36	17.80	30.93
3	*2437.00	102.33 PK			3.95 H	36	71.44	30.89
4	*2437.00	100.76 AV			3.95 H	36	69.87	30.89
5	2483.50	58.04 PK	74.00	-15.96	3.95 H	36	27.17	30.87
6	2483.50	48.81 AV	54.00	-5.19	3.95 H	36	17.94	30.87
7	4874.00	47.59 PK	74.00	-26.41	3.76 H	56	63.49	-15.90
8	4874.00	44.24 AV	54.00	-9.76	3.76 H	56	60.14	-15.90
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	58.01 PK	74.00	-15.99	1.00 V	94	27.08	30.93
2	2390.00	49.11 AV	54.00	-4.89	1.00 V	94	18.18	30.93
3	*2437.00	109.30 PK			1.00 V	94	78.41	30.89
4	*2437.00	107.95 AV			1.00 V	94	77.06	30.89
5	2483.50	58.10 PK	74.00	-15.90	1.00 V	94	27.23	30.87
6	2483.50	50.96 AV	54.00	-3.04	1.00 V	94	20.09	30.87
7	4874.00	48.94 PK	74.00	-25.06	1.06 V	89	64.84	-15.90
8	4874.00	46.29 AV	54.00	-7.71	1.06 V	89	62.19	-15.90

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.

RF Mode	TX 802.11b	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	96.77 PK			3.40 H	26	65.88	30.89
2	*2462.00	95.10 AV			3.40 H	26	64.21	30.89
3	2483.50	57.80 PK	74.00	-16.20	3.40 H	26	26.93	30.87
4	2483.50	49.14 AV	54.00	-4.86	3.40 H	26	18.27	30.87
5	4924.00	44.35 PK	74.00	-29.65	3.48 H	57	60.26	-15.91
6	4924.00	37.42 AV	54.00	-16.58	3.48 H	57	53.33	-15.91
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	104.85 PK			1.07 V	108	73.96	30.89
2	*2462.00	103.18 AV			1.07 V	108	72.29	30.89
3	2483.50	59.02 PK	74.00	-14.98	1.07 V	108	28.15	30.87
4	2483.50	52.47 AV	54.00	-1.53	1.07 V	108	21.60	30.87
5	4924.00	44.87 PK	74.00	-29.13	1.19 V	96	60.78	-15.91
6	4924.00	39.43 AV	54.00	-14.57	1.19 V	96	55.34	-15.91

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.

RF Mode	TX 802.11g	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.88 PK	74.00	-15.12	3.64 H	17	27.95	30.93
2	2390.00	48.58 AV	54.00	-5.42	3.64 H	17	17.65	30.93
3	*2412.00	101.46 PK			3.64 H	17	70.57	30.89
4	*2412.00	94.95 AV			3.64 H	17	64.06	30.89
5	4824.00	43.08 PK	74.00	-30.92	3.28 H	54	58.85	-15.77
6	4824.00	36.02 AV	54.00	-17.98	3.28 H	54	51.79	-15.77
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	64.78 PK	74.00	-9.22	1.00 V	100	33.85	30.93
2	2390.00	52.31 AV	54.00	-1.69	1.00 V	100	21.38	30.93
3	*2412.00	107.93 PK			1.00 V	100	77.04	30.89
4	*2412.00	100.80 AV			1.00 V	100	69.91	30.89
5	4824.00	44.24 PK	74.00	-29.76	2.99 V	315	60.01	-15.77
6	4824.00	36.28 AV	54.00	-17.72	2.99 V	315	52.05	-15.77

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.

RF Mode	TX 802.11g	Channel	CH 2：2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	57.58 PK	74.00	-16.42	1.05 H	3	26.65	30.93
2	2390.00	48.56 AV	54.00	-5.44	1.05 H	3	17.63	30.93
3	*2417.00	102.13 PK			1.05 H	3	71.23	30.90
4	*2417.00	95.38 AV			1.05 H	3	64.48	30.90
5	4834.00	42.95 PK	74.00	-31.05	2.89 H	13	58.76	-15.81
6	4834.00	35.84 AV	54.00	-18.16	2.89 H	13	51.65	-15.81
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.86 PK	74.00	-12.14	1.90 V	325	30.93	30.93
2	2390.00	50.74 AV	54.00	-3.26	1.90 V	325	19.81	30.93
3	*2417.00	107.54 PK			1.90 V	325	76.64	30.90
4	*2417.00	100.85 AV			1.90 V	325	69.95	30.90
5	4834.00	44.30 PK	74.00	-29.70	2.86 V	301	60.11	-15.81
6	4834.00	36.31 AV	54.00	-17.69	2.86 V	301	52.12	-15.81

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.

RF Mode	TX 802.11g	Channel	CH 3：2422 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	57.38 PK	74.00	-16.62	1.08 H	13	26.45	30.93
2	2390.00	48.34 AV	54.00	-5.66	1.08 H	13	17.41	30.93
3	*2422.00	101.43 PK			1.08 H	13	70.53	30.90
4	*2422.00	94.93 AV			1.08 H	13	64.03	30.90
5	4844.00	43.03 PK	74.00	-30.97	3.36 H	18	58.87	-15.84
6	4844.00	35.99 AV	54.00	-18.01	3.36 H	18	51.83	-15.84
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	59.36 PK	74.00	-14.64	1.67 V	324	28.43	30.93
2	2390.00	49.57 AV	54.00	-4.43	1.67 V	324	18.64	30.93
3	*2422.00	107.96 PK			1.67 V	324	77.06	30.90
4	*2422.00	100.87 AV			1.67 V	324	69.97	30.90
5	4844.00	44.22 PK	74.00	-29.78	2.81 V	297	60.06	-15.84
6	4844.00	36.23 AV	54.00	-17.77	2.81 V	297	52.07	-15.84

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.

RF Mode	TX 802.11g	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	57.13 PK	74.00	-16.87	3.48 H	21	26.20	30.93
2	2390.00	48.53 AV	54.00	-5.47	3.48 H	21	17.60	30.93
3	*2437.00	101.63 PK			3.48 H	21	70.74	30.89
4	*2437.00	95.01 AV			3.48 H	21	64.12	30.89
5	2483.50	58.11 PK	74.00	-15.89	3.48 H	21	27.24	30.87
6	2483.50	49.08 AV	54.00	-4.92	3.48 H	21	18.21	30.87
7	4874.00	44.56 PK	74.00	-29.44	2.56 H	150	60.46	-15.90
8	4874.00	34.28 AV	54.00	-19.72	2.56 H	150	50.18	-15.90
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.57 PK	74.00	-12.43	1.00 V	99	30.64	30.93
2	2390.00	50.89 AV	54.00	-3.11	1.00 V	99	19.96	30.93
3	*2437.00	108.94 PK			1.00 V	99	78.05	30.89
4	*2437.00	102.37 AV			1.00 V	99	71.48	30.89
5	2483.50	60.93 PK	74.00	-13.07	1.00 V	99	30.06	30.87
6	2483.50	50.64 AV	54.00	-3.36	1.00 V	99	19.77	30.87
7	4874.00	44.02 PK	74.00	-29.98	3.91 V	64	59.92	-15.90
8	4874.00	34.56 AV	54.00	-19.44	3.91 V	64	50.46	-15.90

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.

RF Mode	TX 802.11g	Channel	CH 9：2452 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	101.68 PK			1.26 H	12	70.78	30.90
2	*2452.00	95.01 AV			1.26 H	12	64.11	30.90
3	2483.50	58.56 PK	74.00	-15.44	1.26 H	12	27.69	30.87
4	2483.50	49.29 AV	54.00	-4.71	1.26 H	12	18.42	30.87
5	4904.00	42.66 PK	74.00	-31.34	2.98 H	263	58.59	-15.93
6	4904.00	34.99 AV	54.00	-19.01	2.98 H	263	50.92	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	107.88 PK			1.84 V	325	76.98	30.90
2	*2452.00	101.23 AV			1.84 V	325	70.33	30.90
3	2483.50	61.92 PK	74.00	-12.08	1.84 V	325	31.05	30.87
4	2483.50	50.71 AV	54.00	-3.29	1.84 V	325	19.84	30.87
5	4904.00	43.34 PK	74.00	-30.66	1.23 V	187	59.27	-15.93
6	4904.00	35.47 AV	54.00	-18.53	1.23 V	187	51.40	-15.93

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.

RF Mode	TX 802.11g	Channel	CH 10：2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	100.08 PK			2.28 H	10	69.19	30.89
2	*2457.00	93.43 AV			2.28 H	10	62.54	30.89
3	2483.50	59.78 PK	74.00	-14.22	2.28 H	10	28.91	30.87
4	2483.50	48.67 AV	54.00	-5.33	2.28 H	10	17.80	30.87
5	4914.00	42.50 PK	74.00	-31.50	2.97 H	263	58.43	-15.93
6	4914.00	34.52 AV	54.00	-19.48	2.97 H	263	50.45	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	106.57 PK			2.06 V	312	75.68	30.89
2	*2457.00	99.91 AV			2.06 V	312	69.02	30.89
3	2483.50	62.15 PK	74.00	-11.85	2.06 V	312	31.28	30.87
4	2483.50	51.76 AV	54.00	-2.24	2.06 V	312	20.89	30.87
5	4914.00	43.25 PK	74.00	-30.75	1.26 V	222	59.18	-15.93
6	4914.00	35.41 AV	54.00	-18.59	1.26 V	222	51.34	-15.93

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.

RF Mode	TX 802.11g	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	100.05 PK			3.43 H	23	69.16	30.89
2	*2462.00	93.50 AV			3.43 H	23	62.61	30.89
3	2483.50	58.18 PK	74.00	-15.82	3.43 H	23	27.31	30.87
4	2483.50	49.30 AV	54.00	-4.70	3.43 H	23	18.43	30.87
5	4924.00	42.65 PK	74.00	-31.35	3.21 H	258	58.56	-15.91
6	4924.00	34.98 AV	54.00	-19.02	3.21 H	258	50.89	-15.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.59 PK			1.10 V	98	75.70	30.89
2	*2462.00	99.98 AV			1.10 V	98	69.09	30.89
3	2483.50	62.27 PK	74.00	-11.73	1.10 V	98	31.40	30.87
4	2483.50	51.92 AV	54.00	-2.08	1.10 V	98	21.05	30.87
5	4924.00	43.38 PK	74.00	-30.62	1.00 V	192	59.29	-15.91
6	4924.00	35.53 AV	54.00	-18.47	1.00 V	192	51.44	-15.91

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.21 PK	74.00	-15.79	4.00 H	34	27.28	30.93
2	2390.00	48.23 AV	54.00	-5.77	4.00 H	34	17.30	30.93
3	*2412.00	101.52 PK			4.00 H	34	70.63	30.89
4	*2412.00	94.41 AV			4.00 H	34	63.52	30.89
5	4924.00	43.17 PK	74.00	-30.83	2.29 H	189	59.08	-15.91
6	4924.00	35.57 AV	54.00	-18.43	2.29 H	189	51.48	-15.91
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	66.42 PK	74.00	-7.58	1.00 V	98	35.49	30.93
2	2390.00	52.46 AV	54.00	-1.54	1.00 V	98	21.53	30.93
3	*2412.00	107.63 PK			1.00 V	98	76.74	30.89
4	*2412.00	100.85 AV			1.00 V	98	69.96	30.89
5	4824.00	42.61 PK	74.00	-31.39	1.06 V	157	58.38	-15.77
6	4824.00	35.75 AV	54.00	-18.25	1.06 V	157	51.52	-15.77

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 2：2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.89 PK	74.00	-14.11	1.96 H	15	28.96	30.93
2	2390.00	48.75 AV	54.00	-5.25	1.96 H	15	17.82	30.93
3	*2417.00	101.48 PK			1.53 H	16	70.58	30.90
4	*2417.00	94.36 AV			1.53 H	16	63.46	30.90
5	4834.00	43.16 PK	74.00	-30.84	2.13 H	177	58.97	-15.81
6	4834.00	35.51 AV	54.00	-18.49	2.13 H	177	51.32	-15.81
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	65.29 PK	74.00	-8.71	1.66 V	325	34.36	30.93
2	2390.00	51.60 AV	54.00	-2.40	1.66 V	325	20.67	30.93
3	*2417.00	107.38 PK			1.66 V	325	76.48	30.90
4	*2417.00	100.67 AV			1.66 V	325	69.77	30.90
5	4834.00	42.55 PK	74.00	-31.45	1.08 V	159	58.36	-15.81
6	4834.00	35.64 AV	54.00	-18.36	1.08 V	159	51.45	-15.81

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 3：2422 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.33 PK	74.00	-14.67	1.70 H	14	28.40	30.93
2	2390.00	48.78 AV	54.00	-5.22	1.70 H	14	17.85	30.93
3	*2422.00	101.92 PK			1.70 H	14	71.02	30.90
4	*2422.00	94.55 AV			1.70 H	14	63.65	30.90
5	4844.00	43.18 PK	74.00	-30.82	1.93 H	176	59.02	-15.84
6	4844.00	35.59 AV	54.00	-18.41	1.93 H	176	51.43	-15.84
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	63.78 PK	74.00	-10.22	1.31 V	323	32.85	30.93
2	2390.00	51.15 AV	54.00	-2.85	1.31 V	323	20.22	30.93
3	*2422.00	107.61 PK			1.31 V	323	76.71	30.90
4	*2422.00	100.71 AV			1.31 V	323	69.81	30.90
5	4844.00	42.52 PK	74.00	-31.48	1.13 V	165	58.36	-15.84
6	4844.00	35.65 AV	54.00	-18.35	1.13 V	165	51.49	-15.84

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	56.68 PK	74.00	-17.32	3.50 H	19	25.75	30.93
2	2390.00	48.18 AV	54.00	-5.82	3.50 H	19	17.25	30.93
3	*2437.00	103.88 PK			3.50 H	19	72.99	30.89
4	*2437.00	96.76 AV			3.50 H	19	65.87	30.89
5	2483.50	57.67 PK	74.00	-16.33	3.50 H	19	26.80	30.87
6	2483.50	48.76 AV	54.00	-5.24	3.50 H	19	17.89	30.87
7	4874.00	43.40 PK	74.00	-30.60	3.89 H	292	59.30	-15.90
8	4874.00	34.13 AV	54.00	-19.87	3.89 H	292	50.03	-15.90
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	63.61 PK	74.00	-10.39	1.00 V	100	32.68	30.93
2	2390.00	52.34 AV	54.00	-1.66	1.00 V	100	21.41	30.93
3	*2437.00	111.17 PK			1.00 V	100	80.28	30.89
4	*2437.00	103.66 AV			1.00 V	100	72.77	30.89
5	2483.50	65.36 PK	74.00	-8.64	1.00 V	100	34.49	30.87
6	2483.50	52.45 AV	54.00	-1.55	1.00 V	100	21.58	30.87
7	4874.00	44.39 PK	74.00	-29.61	1.14 V	31	60.29	-15.90
8	4874.00	33.90 AV	54.00	-20.10	1.14 V	31	49.80	-15.90

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 9：2452 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	100.01 PK			1.30 H	10	69.11	30.90
2	*2452.00	93.67 AV			1.30 H	10	62.77	30.90
3	2483.50	59.60 PK	74.00	-14.40	1.30 H	10	28.73	30.87
4	2483.50	48.79 AV	54.00	-5.21	1.30 H	10	17.92	30.87
5	4904.00	44.33 PK	74.00	-29.67	2.97 H	198	60.26	-15.93
6	4904.00	32.82 AV	54.00	-21.18	2.97 H	198	48.75	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	106.19 PK			1.74 V	324	75.29	30.90
2	*2452.00	99.35 AV			1.74 V	324	68.45	30.90
3	2483.50	64.59 PK	74.00	-9.41	1.74 V	324	33.72	30.87
4	2483.50	52.23 AV	54.00	-1.77	1.74 V	324	21.36	30.87
5	4904.00	44.35 PK	74.00	-29.65	2.87 V	227	60.28	-15.93
6	4904.00	34.11 AV	54.00	-19.89	2.87 V	227	50.04	-15.93

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 10：2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	98.78 PK			1.30 H	9	67.89	30.89
2	*2457.00	91.88 AV			1.30 H	9	60.99	30.89
3	2483.50	60.14 PK	74.00	-13.86	1.30 H	9	29.27	30.87
4	2483.50	48.75 AV	54.00	-5.25	1.30 H	9	17.88	30.87
5	4914.00	43.58 PK	74.00	-30.42	2.67 H	125	59.51	-15.93
6	4914.00	33.63 AV	54.00	-20.37	2.67 H	125	49.56	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	104.12 PK			1.75 V	324	73.23	30.89
2	*2457.00	96.05 AV			1.75 V	324	65.16	30.89
3	2483.50	64.67 PK	74.00	-9.33	1.75 V	324	33.80	30.87
4	2483.50	52.41 AV	54.00	-1.59	1.75 V	324	21.54	30.87
5	4914.00	42.79 PK	74.00	-31.21	2.14 V	222	58.72	-15.93
6	4914.00	33.00 AV	54.00	-21.00	2.14 V	222	48.93	-15.93

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	99.90 PK			3.42 H	20	69.01	30.89
2	*2462.00	92.51 AV			3.42 H	20	61.62	30.89
3	2483.50	58.84 PK	74.00	-15.16	3.42 H	20	27.97	30.87
4	2483.50	49.09 AV	54.00	-4.91	3.42 H	20	18.22	30.87
5	4924.00	43.14 PK	74.00	-30.86	1.37 H	239	59.05	-15.91
6	4924.00	34.90 AV	54.00	-19.10	1.37 H	239	50.81	-15.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.21 PK			1.03 V	97	75.32	30.89
2	*2462.00	99.20 AV			1.03 V	97	68.31	30.89
3	2483.50	65.63 PK	74.00	-8.37	1.03 V	97	34.76	30.87
4	2483.50	52.43 AV	54.00	-1.57	1.03 V	97	21.56	30.87
5	4924.00	43.06 PK	74.00	-30.94	2.65 V	349	58.97	-15.91
6	4924.00	35.50 AV	54.00	-18.50	2.65 V	349	51.41	-15.91

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.

Ant. 2

RF Mode	TX 802.11b	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.72 PK	74.00	-14.28	1.38 H	51	28.79	30.93
2	2390.00	51.72 AV	54.00	-2.28	1.38 H	51	20.79	30.93
3	*2412.00	107.36 PK			1.18 H	47	76.47	30.89
4	*2412.00	105.91 AV			1.18 H	47	75.02	30.89
5	4824.00	45.35 PK	74.00	-28.65	2.23 H	154	61.12	-15.77
6	4824.00	39.68 AV	54.00	-14.32	2.23 H	154	55.45	-15.77
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	56.45 PK	74.00	-17.55	1.43 V	322	25.52	30.93
2	2390.00	49.38 AV	54.00	-4.62	1.43 V	322	18.45	30.93
3	*2412.00	101.43 PK			1.43 V	322	70.54	30.89
4	*2412.00	99.88 AV			1.43 V	322	68.99	30.89
5	4824.00	44.66 PK	74.00	-29.34	1.96 V	235	60.43	-15.77
6	4824.00	38.49 AV	54.00	-15.51	1.96 V	235	54.26	-15.77

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.

RF Mode	TX 802.11b	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	57.67 PK	74.00	-16.33	1.43 H	52	26.74	30.93
2	2390.00	50.29 AV	54.00	-3.71	1.43 H	52	19.36	30.93
3	*2437.00	111.14 PK			1.43 H	52	80.25	30.89
4	*2437.00	109.80 AV			1.43 H	52	78.91	30.89
5	2483.50	60.38 PK	74.00	-13.62	1.43 H	52	29.51	30.87
6	2483.50	52.44 AV	54.00	-1.56	1.43 H	52	21.57	30.87
7	4874.00	47.47 PK	74.00	-26.53	1.24 H	62	63.37	-15.90
8	4874.00	43.06 AV	54.00	-10.94	1.24 H	62	58.96	-15.90
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	56.76 PK	74.00	-17.24	2.35 V	322	25.83	30.93
2	2390.00	48.56 AV	54.00	-5.44	2.35 V	322	17.63	30.93
3	*2437.00	106.97 PK			2.35 V	322	76.08	30.89
4	*2437.00	105.49 AV			2.35 V	322	74.60	30.89
5	2483.50	57.88 PK	74.00	-16.12	2.35 V	322	27.01	30.87
6	2483.50	49.64 AV	54.00	-4.36	2.35 V	322	18.77	30.87
7	4874.00	46.76 PK	74.00	-27.24	1.48 V	134	62.66	-15.90
8	4874.00	41.81 AV	54.00	-12.19	1.48 V	134	57.71	-15.90

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.

RF Mode	TX 802.11b	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.82 PK			1.24 H	58	74.93	30.89
2	*2462.00	104.29 AV			1.24 H	58	73.40	30.89
3	2483.50	58.12 PK	74.00	-15.88	1.24 H	58	27.25	30.87
4	2483.50	50.40 AV	54.00	-3.60	1.24 H	58	19.53	30.87
5	4924.00	45.32 PK	74.00	-28.68	3.24 H	225	61.23	-15.91
6	4924.00	39.23 AV	54.00	-14.77	3.24 H	225	55.14	-15.91
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	101.52 PK			2.64 V	322	70.63	30.89
2	*2462.00	99.93 AV			2.64 V	322	69.04	30.89
3	2483.50	56.95 PK	74.00	-17.05	2.64 V	322	26.08	30.87
4	2483.50	49.10 AV	54.00	-4.90	2.64 V	322	18.23	30.87
5	4924.00	44.35 PK	74.00	-29.65	2.36 V	142	60.26	-15.91
6	4924.00	38.38 AV	54.00	-15.62	2.36 V	142	54.29	-15.91

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.

RF Mode	TX 802.11g	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	61.19 PK	74.00	-12.81	1.16 H	53	30.26	30.93
2	2390.00	51.56 AV	54.00	-2.44	1.16 H	53	20.63	30.93
3	*2412.00	108.54 PK			1.16 H	53	77.65	30.89
4	*2412.00	102.03 AV			1.16 H	53	71.14	30.89
5	4824.00	44.87 PK	74.00	-29.13	2.13 H	141	60.64	-15.77
6	4824.00	36.85 AV	54.00	-17.15	2.13 H	141	52.62	-15.77
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	57.29 PK	74.00	-16.71	1.75 V	323	26.36	30.93
2	2390.00	48.69 AV	54.00	-5.31	1.75 V	323	17.76	30.93
3	*2412.00	101.69 PK			1.75 V	323	70.80	30.89
4	*2412.00	95.24 AV			1.75 V	323	64.35	30.89
5	4824.00	42.65 PK	74.00	-31.35	2.41 V	341	58.42	-15.77
6	4824.00	35.62 AV	54.00	-18.38	2.41 V	341	51.39	-15.77

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.

RF Mode	TX 802.11g	Channel	CH 2：2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	62.02 PK	74.00	-11.98	1.20 H	55	31.09	30.93
2	2390.00	51.55 AV	54.00	-2.45	1.20 H	55	20.62	30.93
3	*2417.00	108.34 PK			1.20 H	55	77.44	30.90
4	*2417.00	101.65 AV			1.20 H	55	70.75	30.90
5	4834.00	44.43 PK	74.00	-29.57	2.69 H	222	60.24	-15.81
6	4834.00	36.97 AV	54.00	-17.03	2.69 H	222	52.78	-15.81
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	57.90 PK	74.00	-16.10	1.71 V	335	26.97	30.93
2	2390.00	49.02 AV	54.00	-4.98	1.71 V	335	18.09	30.93
3	*2417.00	102.83 PK			1.71 V	335	71.93	30.90
4	*2417.00	96.19 AV			1.71 V	335	65.29	30.90
5	4834.00	42.62 PK	74.00	-31.38	1.74 V	209	58.43	-15.81
6	4834.00	35.48 AV	54.00	-18.52	1.74 V	209	51.29	-15.81

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.

RF Mode	TX 802.11g	Channel	CH 3：2422 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	60.39 PK	74.00	-13.61	1.17 H	53	29.46	30.93
2	2390.00	50.10 AV	54.00	-3.90	1.17 H	53	19.17	30.93
3	*2422.00	108.85 PK			1.17 H	53	77.95	30.90
4	*2422.00	102.21 AV			1.17 H	53	71.31	30.90
5	4844.00	44.44 PK	74.00	-29.56	2.30 H	178	60.28	-15.84
6	4844.00	36.80 AV	54.00	-17.20	2.30 H	178	52.64	-15.84
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	56.55 PK	74.00	-17.45	2.65 V	323	25.62	30.93
2	2390.00	48.55 AV	54.00	-5.45	2.65 V	323	17.62	30.93
3	*2422.00	103.75 PK			2.65 V	323	72.85	30.90
4	*2422.00	97.02 AV			2.65 V	323	66.12	30.90
5	4844.00	42.57 PK	74.00	-31.43	1.96 V	33	58.41	-15.84
6	4844.00	35.84 AV	54.00	-18.16	1.96 V	33	51.68	-15.84

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.

RF Mode	TX 802.11g	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	60.57 PK	74.00	-13.43	1.46 H	50	29.64	30.93
2	2390.00	51.05 AV	54.00	-2.95	1.46 H	50	20.12	30.93
3	*2437.00	111.56 PK			1.46 H	50	80.67	30.89
4	*2437.00	104.91 AV			1.46 H	50	74.02	30.89
5	2483.50	62.54 PK	74.00	-11.46	1.46 H	50	31.67	30.87
6	2483.50	52.28 AV	54.00	-1.72	1.46 H	50	21.41	30.87
7	4874.00	45.69 PK	74.00	-28.31	2.30 H	174	61.59	-15.90
8	4874.00	37.44 AV	54.00	-16.56	2.30 H	174	53.34	-15.90
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	56.94 PK	74.00	-17.06	2.37 V	322	26.01	30.93
2	2390.00	48.34 AV	54.00	-5.66	2.37 V	322	17.41	30.93
3	*2437.00	107.44 PK			2.37 V	322	76.55	30.89
4	*2437.00	100.72 AV			2.37 V	322	69.83	30.89
5	2483.50	58.88 PK	74.00	-15.12	2.37 V	322	28.01	30.87
6	2483.50	49.49 AV	54.00	-4.51	2.37 V	322	18.62	30.87
7	4874.00	43.52 PK	74.00	-30.48	1.25 V	223	59.42	-15.90
8	4874.00	36.46 AV	54.00	-17.54	1.25 V	223	52.36	-15.90

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.

RF Mode	TX 802.11g	Channel	CH 9：2452 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	109.59 PK			1.54 H	58	78.69	30.90
2	*2452.00	102.83 AV			1.54 H	58	71.93	30.90
3	2483.50	63.19 PK	74.00	-10.81	1.54 H	58	32.32	30.87
4	2483.50	51.78 AV	54.00	-2.22	1.54 H	58	20.91	30.87
5	4904.00	44.50 PK	74.00	-29.50	2.32 H	267	60.43	-15.93
6	4904.00	36.46 AV	54.00	-17.54	2.32 H	267	52.39	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	104.99 PK			2.97 V	321	74.09	30.90
2	*2452.00	98.35 AV			2.97 V	321	67.45	30.90
3	2483.50	59.34 PK	74.00	-14.66	2.97 V	321	28.47	30.87
4	2483.50	49.56 AV	54.00	-4.44	2.97 V	321	18.69	30.87
5	4904.00	42.21 PK	74.00	-31.79	1.64 V	293	58.14	-15.93
6	4904.00	35.46 AV	54.00	-18.54	1.64 V	293	51.39	-15.93

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.

RF Mode	TX 802.11g	Channel	CH 10：2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	109.04 PK			1.13 H	50	78.15	30.89
2	*2457.00	102.31 AV			1.13 H	50	71.42	30.89
3	2483.50	63.73 PK	74.00	-10.27	1.13 H	50	32.86	30.87
4	**2483.50**	**52.49 AV**	**54.00**	**-1.51**	**1.13 H**	**50**	**21.62**	**30.87**
5	4914.00	44.49 PK	74.00	-29.51	3.25 H	147	60.42	-15.93
6	4914.00	36.33 AV	54.00	-17.67	3.25 H	147	52.26	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	104.50 PK			2.62 V	322	73.61	30.89
2	*2457.00	97.87 AV			2.62 V	322	66.98	30.89
3	2483.50	61.01 PK	74.00	-12.99	2.62 V	322	30.14	30.87
4	2483.50	50.26 AV	54.00	-3.74	2.62 V	322	19.39	30.87
5	4914.00	42.24 PK	74.00	-31.76	1.87 V	206	58.17	-15.93
6	4914.00	35.46 AV	54.00	-18.54	1.87 V	206	51.39	-15.93

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.

RF Mode	TX 802.11g	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	107.77 PK			1.17 H	56	76.88	30.89
2	*2462.00	101.44 AV			1.17 H	56	70.55	30.89
3	2483.50	61.68 PK	74.00	-12.32	1.17 H	56	30.81	30.87
4	2483.50	52.43 AV	54.00	-1.57	1.17 H	56	21.56	30.87
5	4924.00	44.41 PK	74.00	-29.59	1.47 H	229	60.32	-15.91
6	4924.00	36.56 AV	54.00	-17.44	1.47 H	229	52.47	-15.91
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	102.63 PK			1.19 V	319	71.74	30.89
2	*2462.00	96.01 AV			1.19 V	319	65.12	30.89
3	2483.50	58.49 PK	74.00	-15.51	1.19 V	319	27.62	30.87
4	2483.50	49.62 AV	54.00	-4.38	1.19 V	319	18.75	30.87
5	4924.00	42.36 PK	74.00	-31.64	2.32 V	188	58.27	-15.91
6	4924.00	35.48 AV	54.00	-18.52	2.32 V	188	51.39	-15.91

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 1：2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	65.24 PK	74.00	-8.76	1.16 H	57	34.31	30.93
2	2390.00	52.43 AV	54.00	-1.57	1.16 H	57	21.50	30.93
3	*2412.00	108.48 PK			1.16 H	57	77.59	30.89
4	*2412.00	101.51 AV			1.16 H	57	70.62	30.89
5	4824.00	43.87 PK	74.00	-30.13	1.46 H	59	59.64	-15.77
6	4824.00	34.66 AV	54.00	-19.34	1.46 H	59	50.43	-15.77
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	58.83 PK	74.00	-15.17	1.20 V	321	27.90	30.93
2	2390.00	50.42 AV	54.00	-3.58	1.20 V	321	19.49	30.93
3	*2412.00	102.74 PK			1.20 V	321	71.85	30.89
4	*2412.00	95.73 AV			1.20 V	321	64.84	30.89
5	4824.00	43.95 PK	74.00	-30.05	2.29 V	230	59.72	-15.77
6	4824.00	34.21 AV	54.00	-19.79	2.29 V	230	49.98	-15.77

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 2：2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	62.57 PK	74.00	-11.43	1.18 H	54	31.64	30.93
2	2390.00	51.94 AV	54.00	-2.06	1.18 H	54	21.01	30.93
3	*2417.00	108.13 PK			1.18 H	54	77.23	30.90
4	*2417.00	100.81 AV			1.18 H	54	69.91	30.90
5	4834.00	43.01 PK	74.00	-30.99	2.79 H	331	58.82	-15.81
6	4834.00	34.26 AV	54.00	-19.74	2.79 H	331	50.07	-15.81
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	59.64 PK	74.00	-14.36	1.16 V	321	28.71	30.93
2	2390.00	49.01 AV	54.00	-4.99	1.16 V	321	18.08	30.93
3	*2417.00	102.15 PK			1.16 V	321	71.25	30.90
4	*2417.00	95.48 AV			1.16 V	321	64.58	30.90
5	4834.00	43.66 PK	74.00	-30.34	1.84 V	59	59.47	-15.81
6	4834.00	34.77 AV	54.00	-19.23	1.84 V	59	50.58	-15.81

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 3：2422 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	64.50 PK	74.00	-9.50	1.18 H	56	33.57	30.93
2	2390.00	52.25 AV	54.00	-1.75	1.18 H	56	21.32	30.93
3	*2422.00	109.28 PK			1.18 H	56	78.38	30.90
4	*2422.00	102.36 AV			1.18 H	56	71.46	30.90
5	4844.00	44.13 PK	74.00	-29.87	2.21 H	247	59.97	-15.84
6	4844.00	34.54 AV	54.00	-19.46	2.21 H	247	50.38	-15.84
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	58.84 PK	74.00	-15.16	1.20 V	321	27.91	30.93
2	2390.00	49.18 AV	54.00	-4.82	1.20 V	321	18.25	30.93
3	*2422.00	103.70 PK			1.20 V	321	72.80	30.90
4	*2422.00	96.97 AV			1.20 V	321	66.07	30.90
5	4844.00	43.26 PK	74.00	-30.74	2.37 V	159	59.10	-15.84
6	4844.00	34.05 AV	54.00	-19.95	2.37 V	159	49.89	-15.84

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 6：2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	60.98 PK	74.00	-13.02	1.17 H	55	30.05	30.93
2	2390.00	50.26 AV	54.00	-3.74	1.17 H	55	19.33	30.93
3	*2437.00	111.78 PK			1.17 H	55	80.89	30.89
4	*2437.00	104.82 AV			1.17 H	55	73.93	30.89
5	2483.50	61.61 PK	74.00	-12.39	1.17 H	55	30.74	30.87
6	2483.50	51.61 AV	54.00	-2.39	1.17 H	55	20.74	30.87
7	4874.00	43.53 PK	74.00	-30.47	2.41 H	13	59.43	-15.90
8	4874.00	34.69 AV	54.00	-19.31	2.41 H	13	50.59	-15.90
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	58.16 PK	74.00	-15.84	1.09 V	319	27.23	30.93
2	2390.00	48.32 AV	54.00	-5.68	1.09 V	319	17.39	30.93
3	*2437.00	105.50 PK			1.09 V	319	74.61	30.89
4	*2437.00	98.85 AV			1.09 V	319	67.96	30.89
5	2483.50	58.43 PK	74.00	-15.57	1.09 V	319	27.56	30.87
6	2483.50	49.24 AV	54.00	-4.76	1.09 V	319	18.37	30.87
7	4874.00	43.55 PK	74.00	-30.45	1.71 V	303	59.45	-15.90
8	4874.00	33.88 AV	54.00	-20.12	1.71 V	303	49.78	-15.90

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 9：2452 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	108.43 PK			1.14 H	54	77.53	30.90
2	*2452.00	101.84 AV			1.14 H	54	70.94	30.90
3	2483.50	64.10 PK	74.00	-9.90	1.14 H	54	33.23	30.87
4	2483.50	52.29 AV	54.00	-1.71	1.14 H	54	21.42	30.87
5	4904.00	44.08 PK	74.00	-29.92	1.69 H	98	60.01	-15.93
6	4904.00	33.90 AV	54.00	-20.10	1.69 H	98	49.83	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	103.09 PK			1.18 V	319	72.19	30.90
2	*2452.00	96.63 AV			1.18 V	319	65.73	30.90
3	2483.50	58.90 PK	74.00	-15.10	1.18 V	319	28.03	30.87
4	2483.50	49.21 AV	54.00	-4.79	1.18 V	319	18.34	30.87
5	4904.00	43.79 PK	74.00	-30.21	1.54 V	281	59.72	-15.93
6	4904.00	34.24 AV	54.00	-19.76	1.54 V	281	50.17	-15.93

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 10：2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	108.01 PK			1.16 H	54	77.12	30.89
2	*2457.00	100.90 AV			1.16 H	54	70.01	30.89
3	2483.50	66.39 PK	74.00	-7.61	1.16 H	54	35.52	30.87
4	2483.50	52.46 AV	54.00	-1.54	1.16 H	54	21.59	30.87
5	4914.00	43.13 PK	74.00	-30.87	1.36 H	312	59.06	-15.93
6	4914.00	34.02 AV	54.00	-19.98	1.36 H	312	49.95	-15.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	102.94 PK			1.21 V	319	72.05	30.89
2	*2457.00	95.98 AV			1.21 V	319	65.09	30.89
3	2483.50	60.48 PK	74.00	-13.52	1.21 V	319	29.61	30.87
4	2483.50	49.46 AV	54.00	-4.54	1.21 V	319	18.59	30.87
5	4914.00	43.61 PK	74.00	-30.39	1.47 V	140	59.54	-15.93
6	4914.00	34.56 AV	54.00	-19.44	1.47 V	140	50.49	-15.93

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.

RF Mode	TX 802.11n (HT20)	Channel	CH 11：2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.85 PK			1.14 H	57	74.96	30.89
2	*2462.00	98.82 AV			1.14 H	57	67.93	30.89
3	2483.50	64.71 PK	74.00	-9.29	1.14 H	57	33.84	30.87
4	2483.50	52.47 AV	54.00	-1.53	1.14 H	57	21.60	30.87
5	4924.00	44.24 PK	74.00	-29.76	1.86 H	263	60.15	-15.91
6	4924.00	34.26 AV	54.00	-19.74	1.86 H	263	50.17	-15.91
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	100.70 PK			1.21 V	319	69.81	30.89
2	*2462.00	93.99 AV			1.21 V	319	63.10	30.89
3	2483.50	58.53 PK	74.00	-15.47	1.21 V	319	27.66	30.87
4	2483.50	49.97 AV	54.00	-4.03	1.21 V	319	19.10	30.87
5	4924.00	43.74 PK	74.00	-30.26	1.23 V	343	59.65	-15.91
6	4924.00	34.11 AV	54.00	-19.89	1.23 V	343	50.02	-15.91

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.

Below 1 GHz Worst-Case Data:

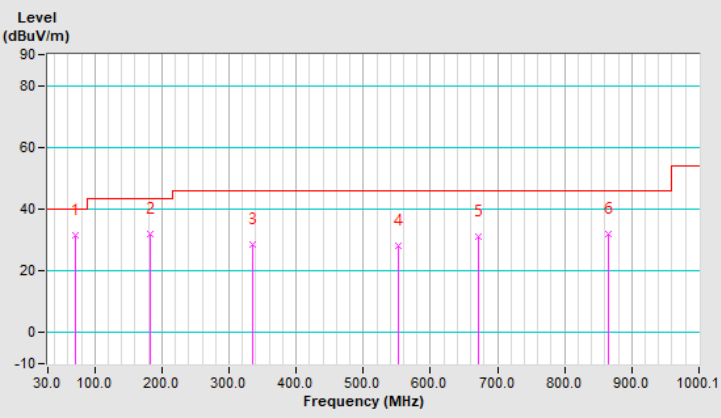
Ant. 2

RF Mode	TX 802.11b	Channel	CH 6：2437 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	70.74	31.37 QP	40.00	-8.63	1.30 H	150	46.41	-15.04
2	182.31	31.96 QP	43.50	-11.54	1.75 H	141	46.53	-14.57
3	334.61	28.42 QP	46.00	-17.58	2.31 H	263	39.14	-10.72
4	552.88	28.19 QP	46.00	-17.81	1.91 H	207	33.32	-5.13
5	671.24	30.99 QP	46.00	-15.01	2.23 H	259	33.13	-2.14
6	865.26	32.08 QP	46.00	-13.92	1.87 H	323	30.94	1.14

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

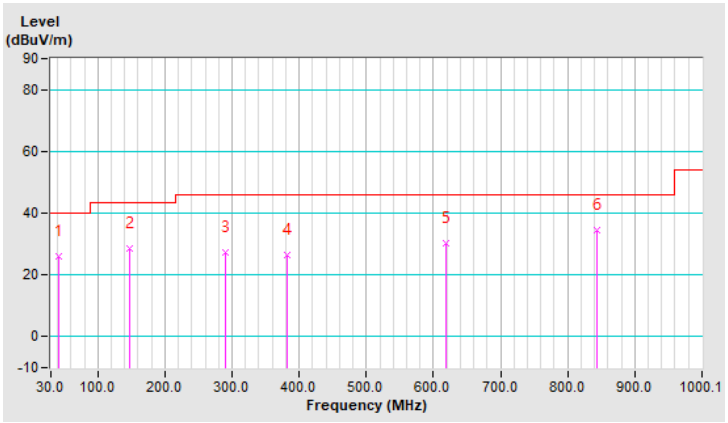


RF Mode	TX 802.11b	Channel	CH 6：2437 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	41.64	25.83 QP	40.00	-14.17	1.76 V	49	38.80	-12.97
2	146.41	28.71 QP	43.50	-14.79	1.80 V	317	40.89	-12.18
3	289.99	27.08 QP	46.00	-18.92	1.26 V	183	39.62	-12.54
4	381.18	26.25 QP	46.00	-19.75	2.81 V	172	35.78	-9.53
5	618.85	30.29 QP	46.00	-15.71	2.65 V	150	33.38	-3.09
6	842.94	34.30 QP	46.00	-11.70	3.05 V	120	33.26	1.04

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 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.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 03, 2021	Dec. 02, 2022
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 15, 2022	Jan. 14, 2023
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 07, 2021	Sep. 06, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
3. The VCCI Site Registration No. is C-12040.
4. Test Date: 2022/2/22

4.2.3 Test Procedures

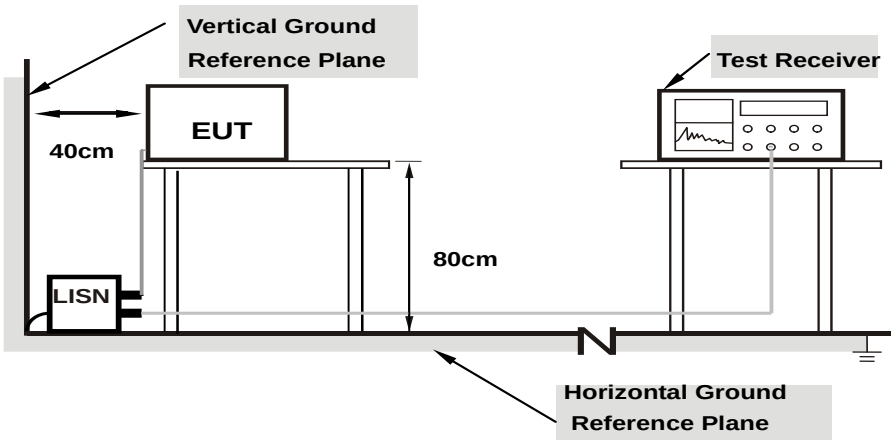
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Conditions

a. Placed the EUT on a testing table.
b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.2.7 Test Results

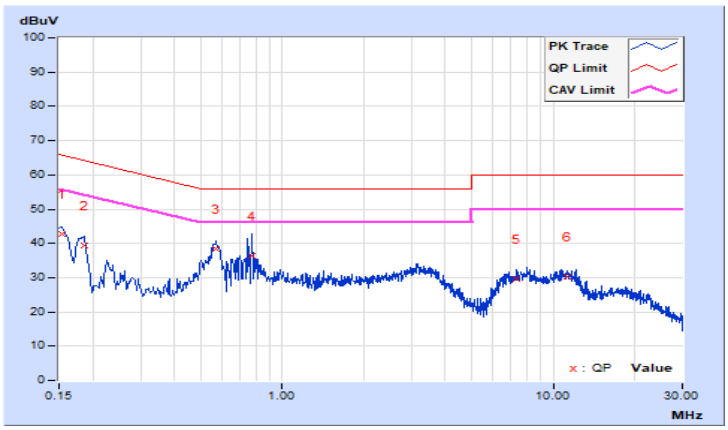
Ant. 2

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	18 °C, 63% RH
Tested by	Thomas Cheng		

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	0.15400	9.66	33.22	23.95	42.88	33.61	65.78	55.78	-22.90	-22.17
2	0.18600	9.67	29.74	15.83	39.41	25.50	64.21	54.21	-24.80	-28.71
3	**0.57000**	**9.72**	**28.50**	**20.94**	**38.22**	**30.66**	**56.00**	**46.00**	**-17.78**	**-15.34**
4	0.77400	9.73	26.61	14.43	36.34	24.16	56.00	46.00	-19.66	-21.84
5	7.31800	9.80	19.74	12.87	29.54	22.67	60.00	50.00	-30.46	-27.33
6	11.27000	9.82	20.46	10.77	30.28	20.59	60.00	50.00	-29.72	-29.41

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

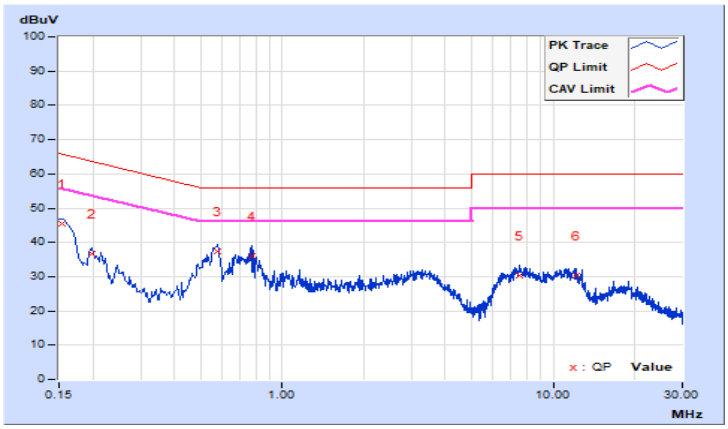


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	18 °C, 63% RH
Tested by	Thomas Cheng		

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	0.15400	9.74	35.76	26.12	45.50	35.86	65.78	55.78	-20.28	-19.92
2	0.19728	9.75	26.90	14.62	36.65	24.37	63.72	53.72	-27.07	-29.35
3	0.57796	9.79	27.57	19.82	37.36	29.61	56.00	46.00	-18.64	-16.39
4	0.77400	9.80	26.22	13.95	36.02	23.75	56.00	46.00	-19.98	-22.25
5	7.50600	9.88	20.42	13.56	30.30	23.44	60.00	50.00	-29.70	-26.56
6	12.21400	9.92	20.31	10.30	30.23	20.22	60.00	50.00	-29.77	-29.78

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

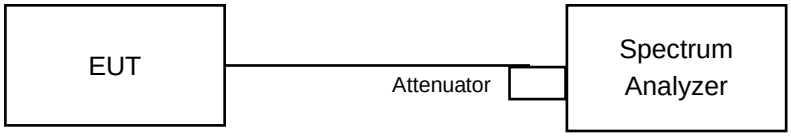


4.3 6 dB Bandwidth Measurement

4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

Ant. 1

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	9.04	0.5	Pass
6	2437	9.62	0.5	Pass
11	2462	9.08	0.5	Pass

802.11g

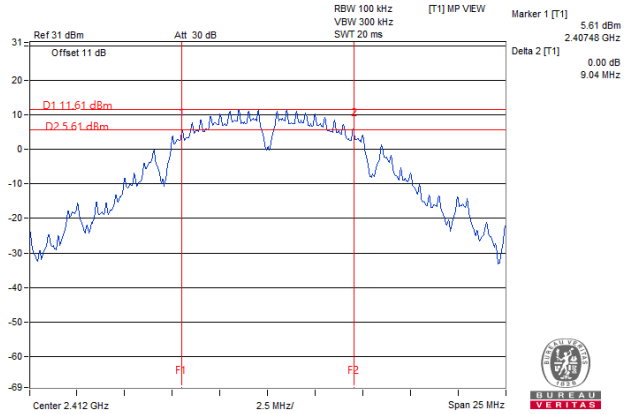
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.25	0.5	Pass
6	2437	16.35	0.5	Pass
11	2462	15.78	0.5	Pass

802.11n (HT20)

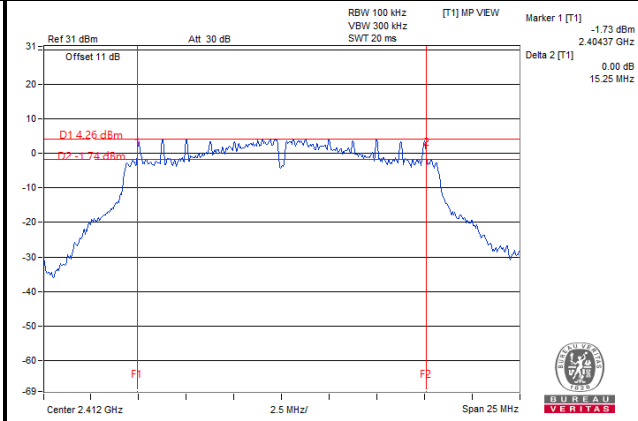
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.26	0.5	Pass
6	2437	17.07	0.5	Pass
11	2462	15.54	0.5	Pass

Spectrum Plot of Worst Value

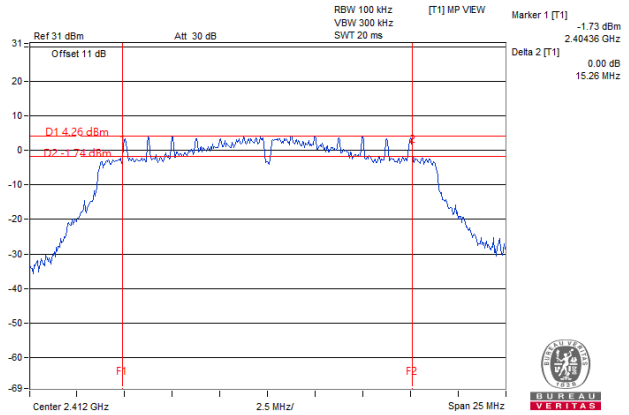
802.11b



802.11g



802.11n (HT20)



Ant. 2

802.11b

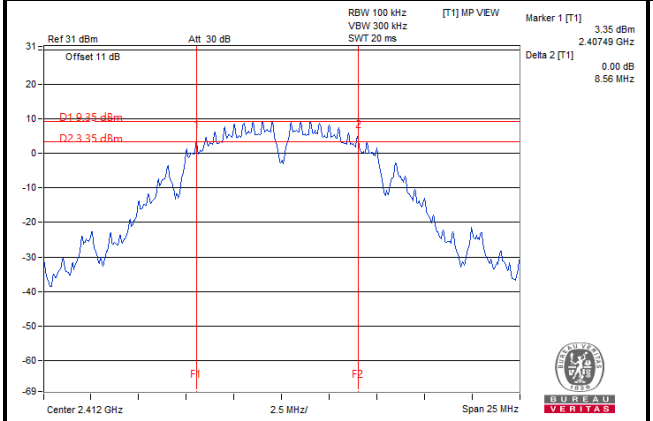
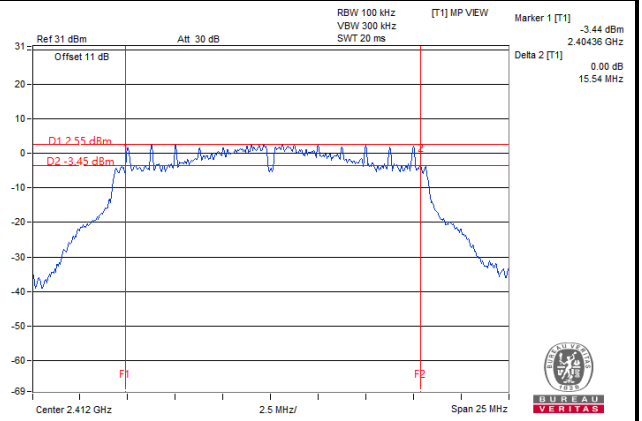
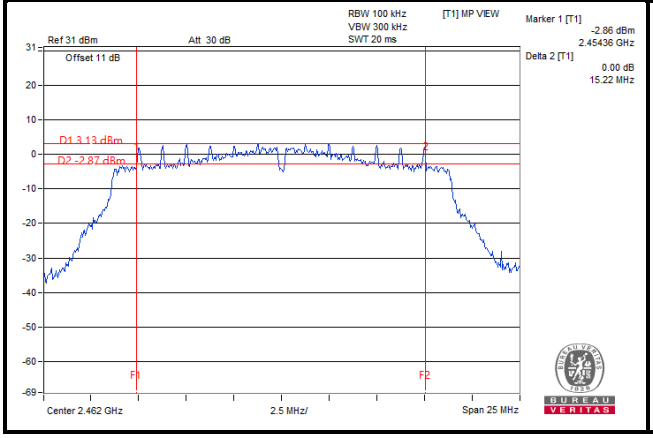
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	8.56	0.5	Pass
6	2437	9.62	0.5	Pass
11	2462	9.01	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.54	0.5	Pass
6	2437	16.33	0.5	Pass
11	2462	15.79	0.5	Pass

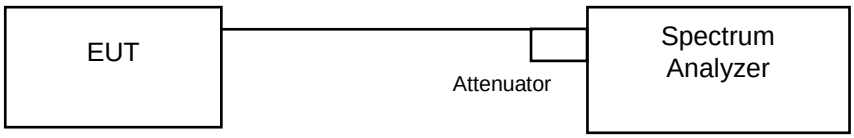
802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.26	0.5	Pass
6	2437	17.13	0.5	Pass
11	2462	15.22	0.5	Pass

Spectrum Plot of Worst Value	
802.11b	**802.11g**
	
802.11n (HT20)	
	

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.4 Deviation from Test Standard

No deviation.

4.4.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Results

Ant. 1

802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	13.02	Pass
6	2437	16.44	Pass
11	2462	12.48	Pass

802.11g

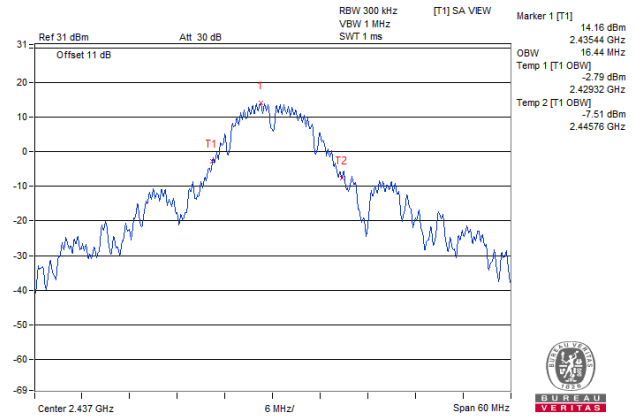
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	16.68	Pass
6	2437	18.12	Pass
11	2462	16.68	Pass

802.11n (HT20)

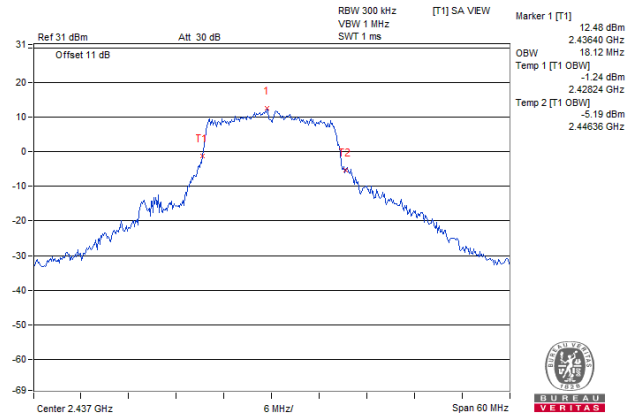
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	17.76	Pass
6	2437	20.40	Pass
11	2462	17.76	Pass

Spectrum Plot of Worst Value

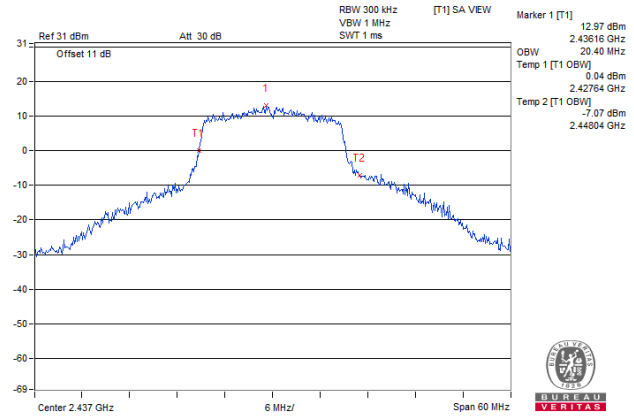
802.11b



802.11g



802.11n (HT20)



Ant. 2

802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	12.12	Pass
6	2437	16.44	Pass
11	2462	12.12	Pass

802.11g

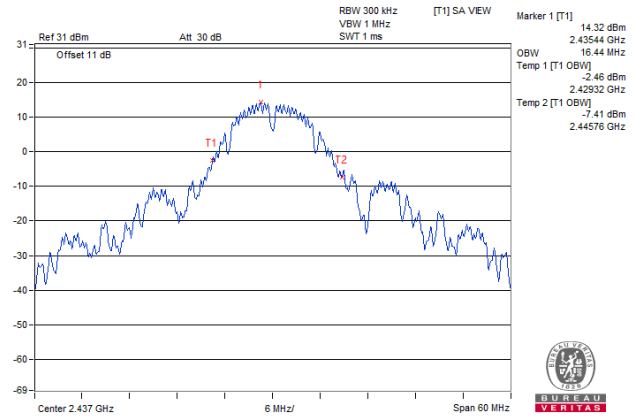
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	16.68	Pass
6	2437	17.40	Pass
11	2462	16.68	Pass

802.11n (HT20)

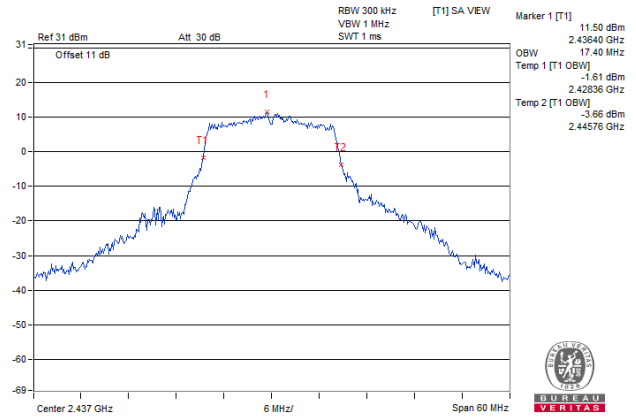
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	17.76	Pass
6	2437	18.48	Pass
11	2462	17.76	Pass

Spectrum Plot of Worst Value

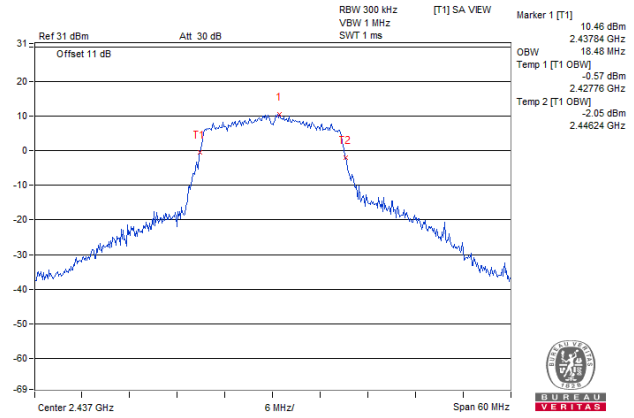
802.11b



802.11g



802.11n (HT20)

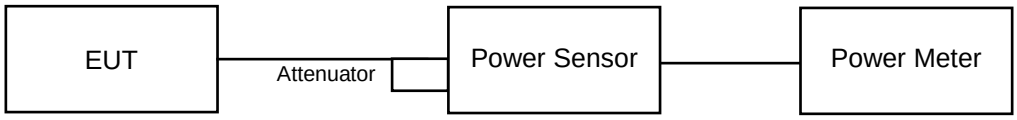


4.5 Conducted Output Power Measurement

4.5.1 Limits of Conducted Output Power Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

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.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.5.7 Test Results

Ant. 1

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	81.658	19.12	30	Pass
6	2437	**129.718**	**21.13**	30	Pass
11	2462	60.954	17.85	30	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	31.333	14.96	30	Pass
2	2417	30.69	14.87	30	Pass
3	2422	30.549	14.85	30	Pass
6	2437	76.384	18.83	30	Pass
9	2452	31.046	14.92	30	Pass
10	2457	31.189	14.94	30	Pass
11	2462	30.061	14.78	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	28.642	14.57	30	Pass
2	2417	28.973	14.62	30	Pass
3	2422	29.58	14.71	30	Pass
6	2437	97.051	19.87	30	Pass
9	2452	29.174	14.65	30	Pass
10	2457	23.014	13.62	30	Pass
11	2462	22.751	13.57	30	Pass

Ant. 2

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	58.345	17.66	30	Pass
6	2437	**181.134**	**22.58**	30	Pass
11	2462	47.098	16.73	30	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	23.014	13.62	30	Pass
2	2417	30.2	14.80	30	Pass
3	2422	30.061	14.78	30	Pass
6	2437	78.705	18.96	30	Pass
9	2452	38.194	15.82	30	Pass
10	2457	30.832	14.89	30	Pass
11	2462	21.727	13.37	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	26.977	14.31	30	Pass
2	2417	26.792	14.28	30	Pass
3	2422	35.075	15.45	30	Pass
6	2437	56.624	17.53	30	Pass
9	2452	29.174	14.65	30	Pass
10	2457	23.659	13.74	30	Pass
11	2462	20.845	13.19	30	Pass

4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.6.2 Test Setup

4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

a. Set analyzer center frequency to DTS channel center frequency.
b. Set the span to 1.5 times the DTS bandwidth.
c. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d. Set the VBW ≥ 3 × RBW.
e. Detector = peak.
f. Sweep time = auto couple.
g. Trace mode = max hold.
h. Allow trace to fully stabilize.
i. Use the peak marker function to determine the maximum amplitude level within the RBW.

For Average Power (Duty cycle ≥ 98%)

a. Set instrument center frequency to DTS channel center frequency.
b. Set span to at least 1.5 times the OBW.
c. Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d. Set VBW ≥3 x RBW.
e. Detector = power averaging (RMS) or sample detector (when RMS not available).
f. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
g. Sweep time = auto couple.
h. Employ trace averaging (RMS) mode over a minimum of 100 traces.
i. Use the peak marker function to determine the maximum amplitude level.

For Average Power (Duty cycle < 98%)

a. Measure the duty cycle (x).

b. Set instrument center frequency to DTS channel center frequency.

c. Set span to at least 1.5 times the OBW.

d. Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz.

e. Set VBW ≥3 x RBW.

f. Detector = power averaging (RMS) or sample detector (when RMS not available).

g. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.

h. Sweep time = auto couple.

i. Do not use sweep triggering. Allow sweep to “free run”.

j. Employ trace averaging (RMS) mode over a minimum of 100 traces.

k. Use the peak marker function to determine the maximum amplitude level.

l. 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.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 Test Results

Ant. 1

802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-15.42	8	Pass
6	2437	-14.11	8	Pass
11	2462	-16.36	8	Pass

802.11g

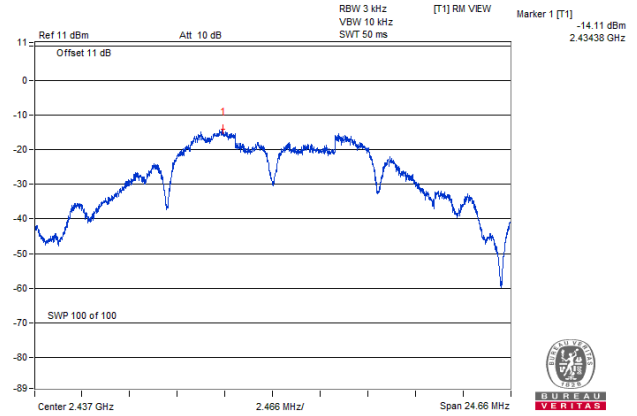
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-18.40	8	Pass
6	2437	-15.28	8	Pass
11	2462	-18.85	8	Pass

802.11n (HT20)

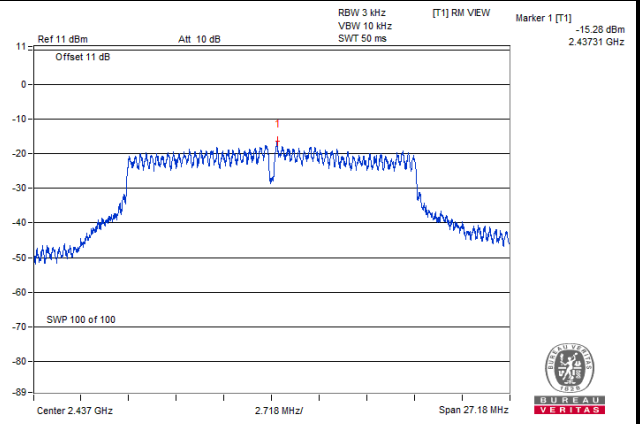
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-19.62	8	Pass
6	2437	-14.38	8	Pass
11	2462	-20.76	8	Pass

Spectrum Plot of Worst Value

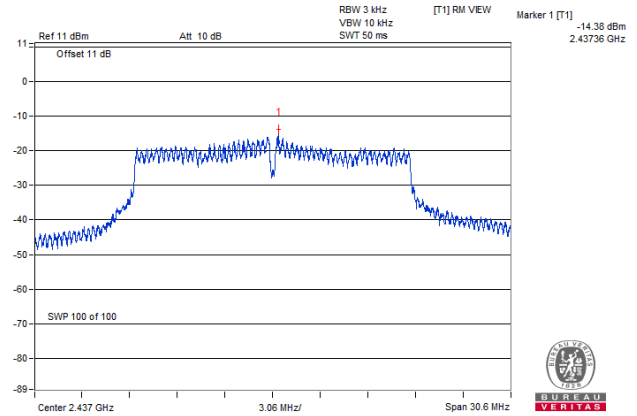
802.11b



802.11g



802.11n (HT20)



Ant. 2

802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-16.75	8	Pass
6	2437	-13.16	8	Pass
11	2462	-17.69	8	Pass

802.11g

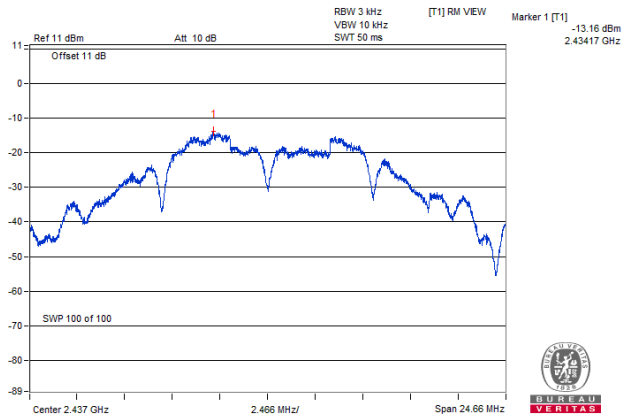
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-20.48	8	Pass
6	2437	-15.27	8	Pass
11	2462	-20.54	8	Pass

802.11n (HT20)

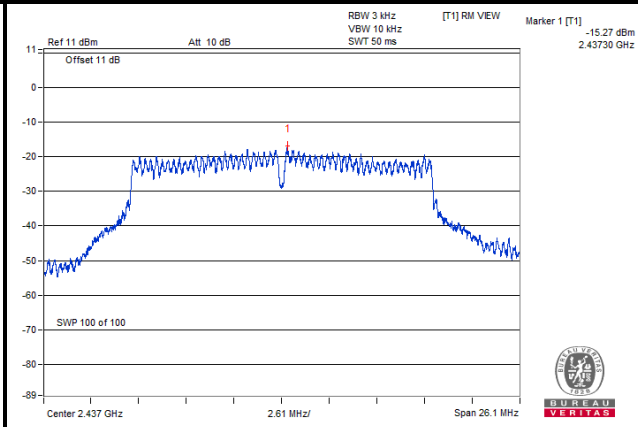
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-19.42	8	Pass
6	2437	-16.64	8	Pass
11	2462	-20.52	8	Pass

Spectrum Plot of Worst Value

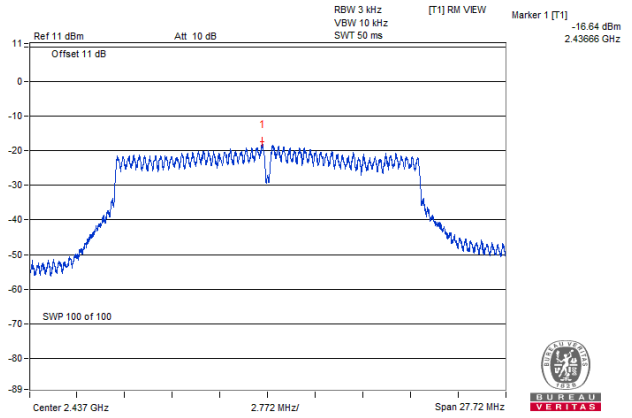
802.11b



802.11g



802.11n (HT20)

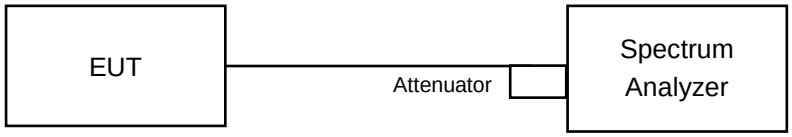


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

Below -30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

1. Set RBW = 100 kHz.
2. Set VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

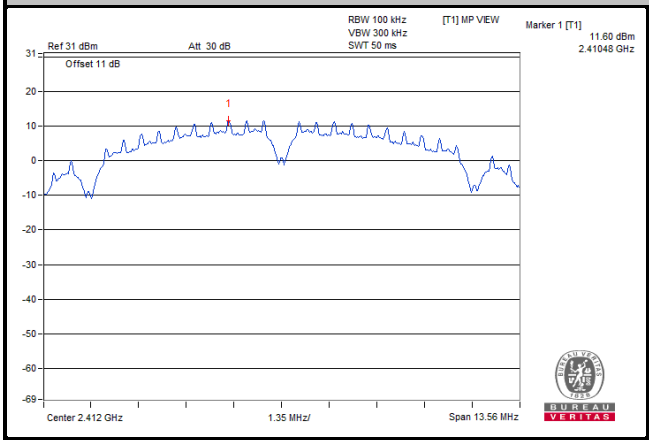
4.7.7 Test Results

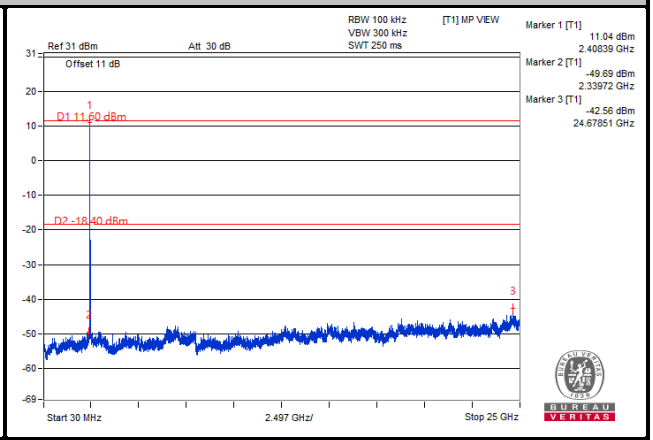
The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 30 dB offset below D1. It shows compliance with the requirement.

Ant. 1

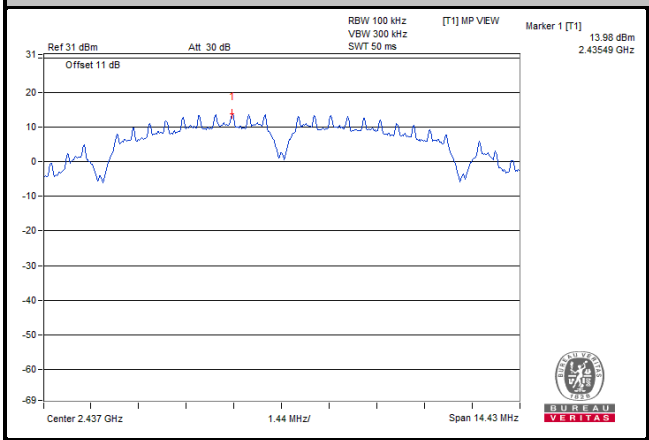
802.11b

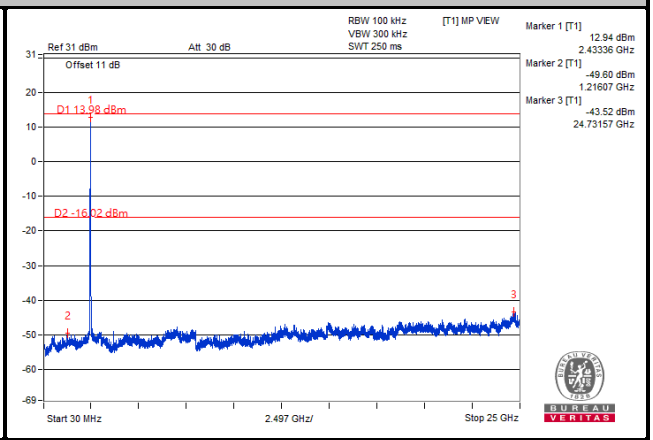
Ch 1



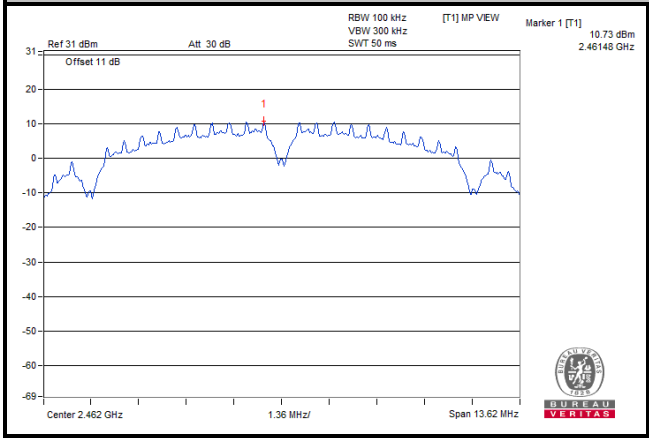


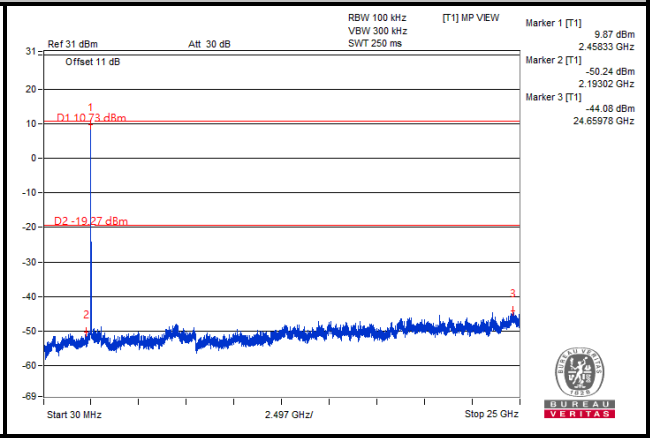
Ch 6

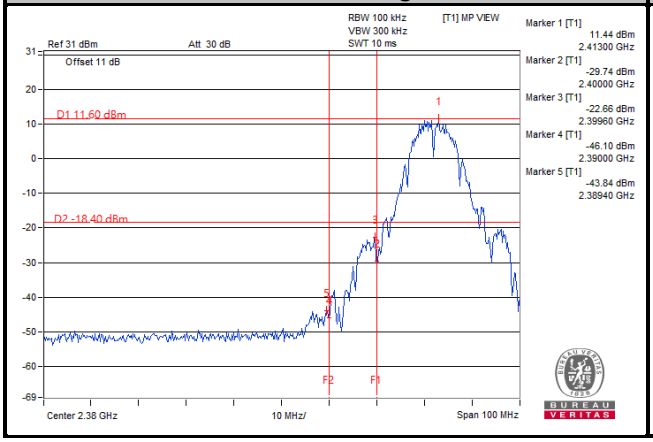
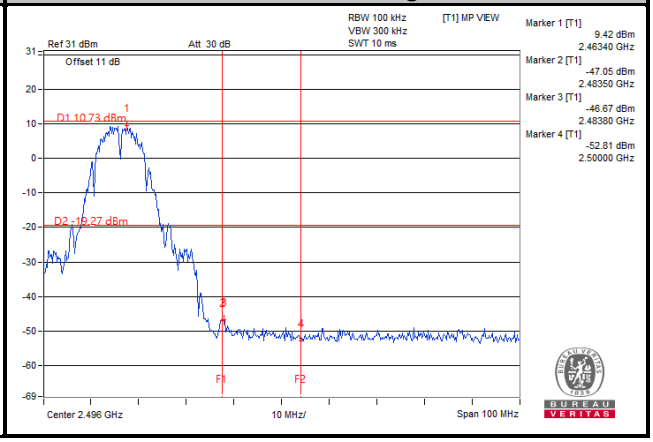




Ch 11

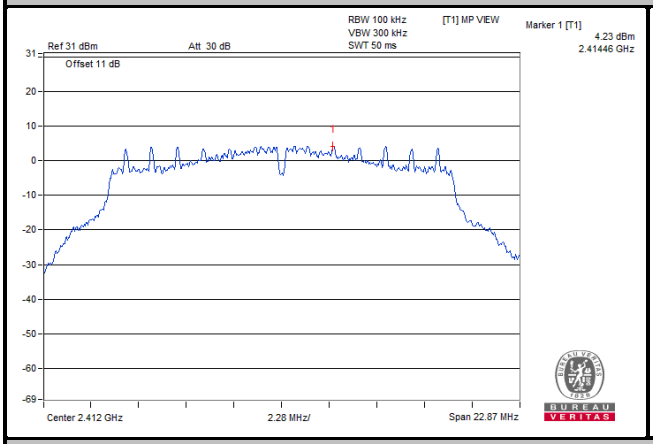


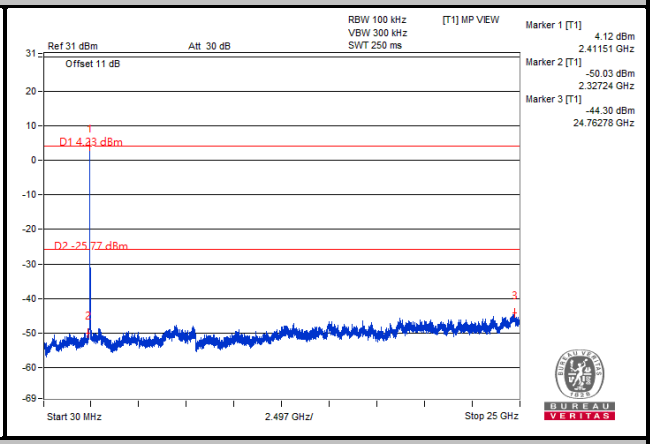


Ch 1 Band Edge	Ch 11 Band Edge
	

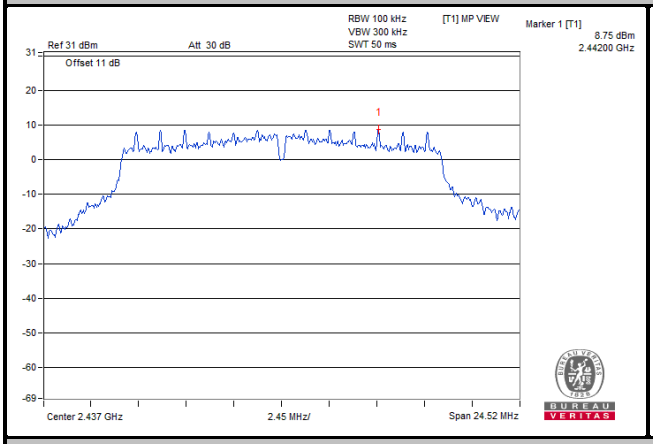
802.11g

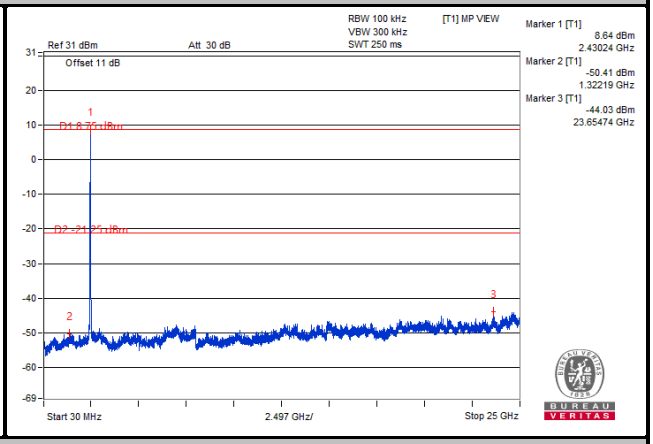
Ch 1



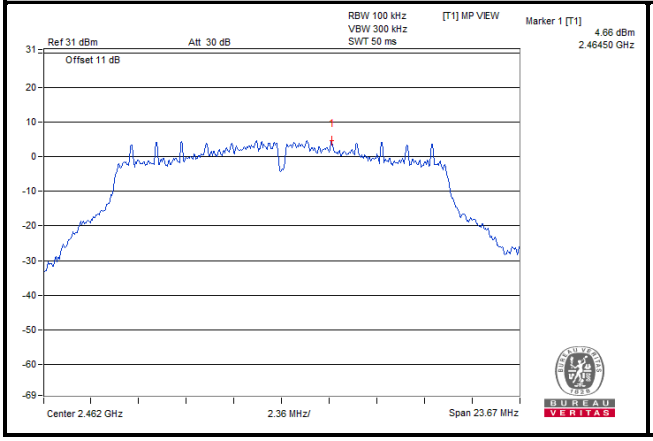


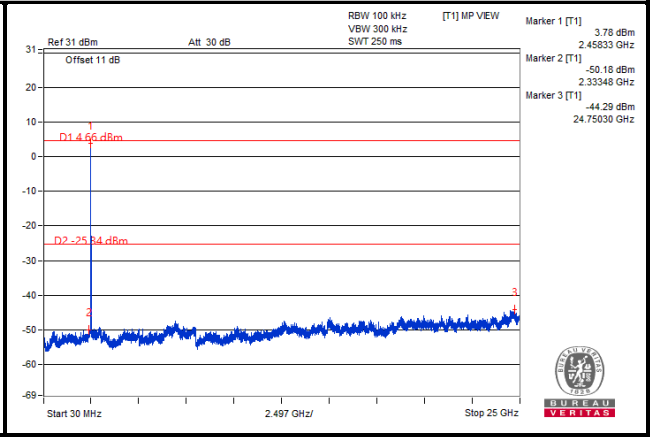
Ch 6

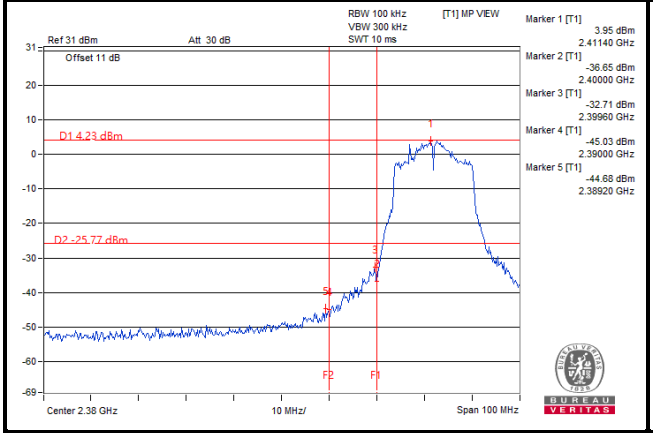
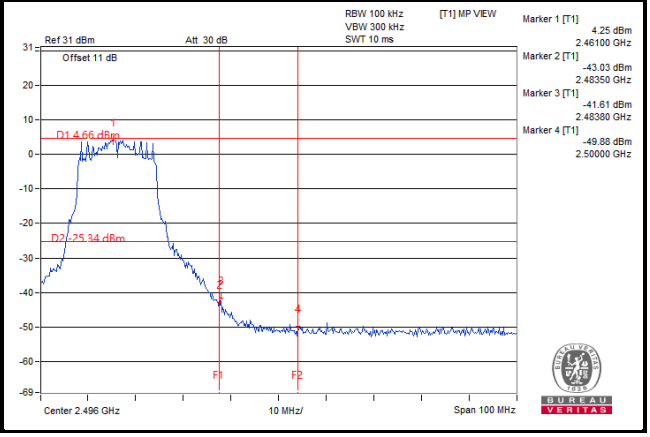




Ch 11

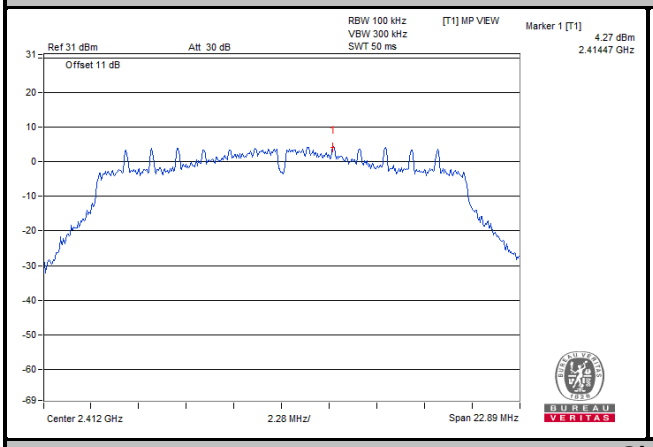


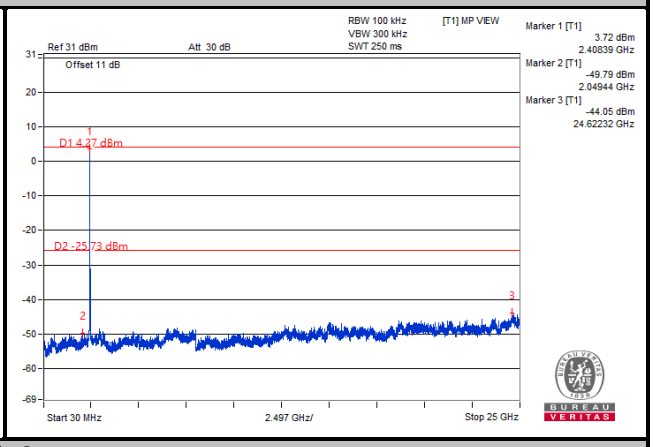


Ch 1 Band Edge	Ch 11 Band Edge
	

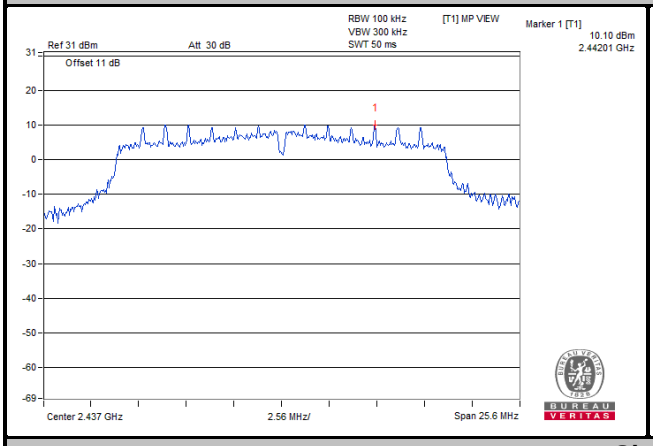
802.11n (HT20)

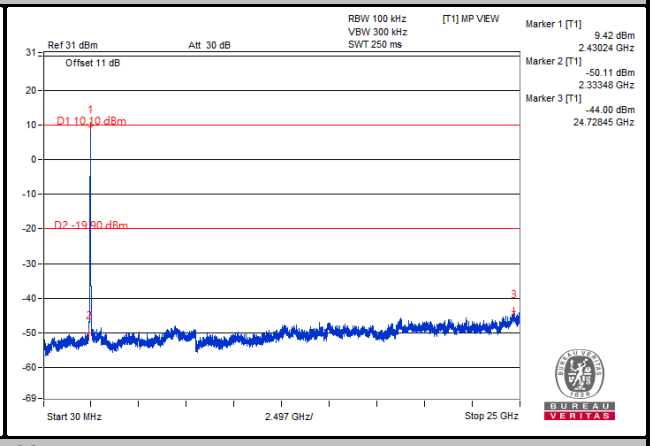
Ch 1



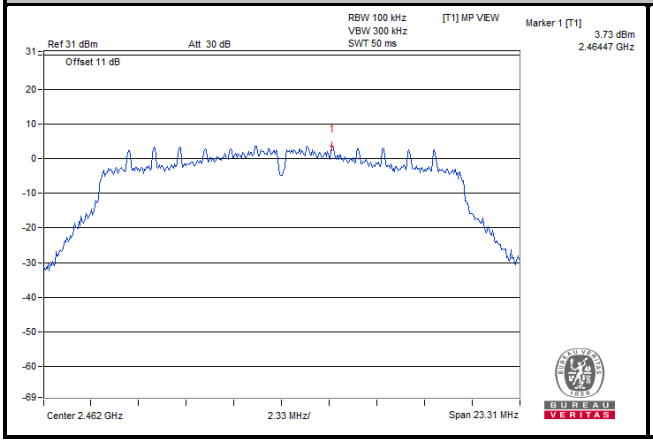


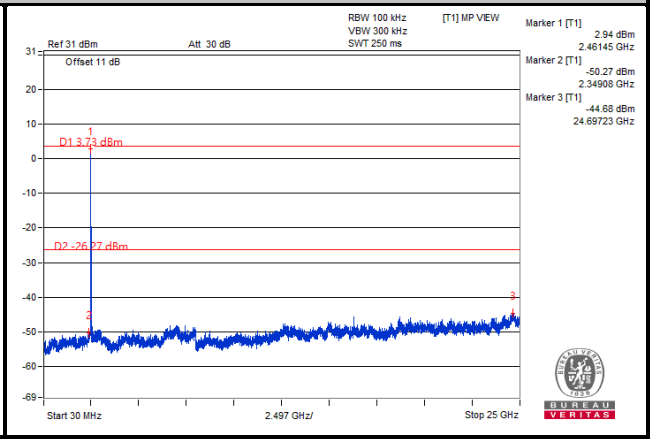
Ch 6

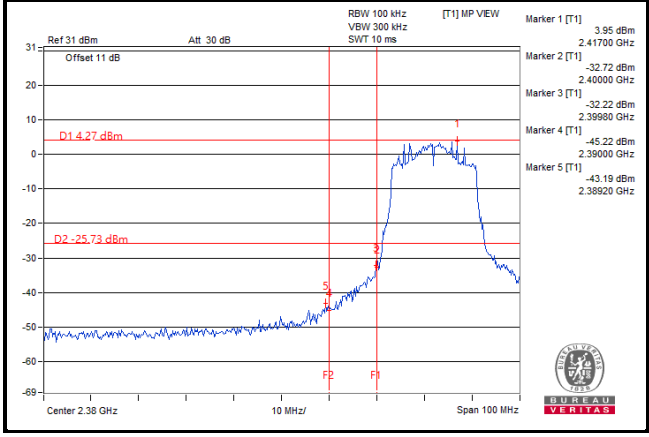
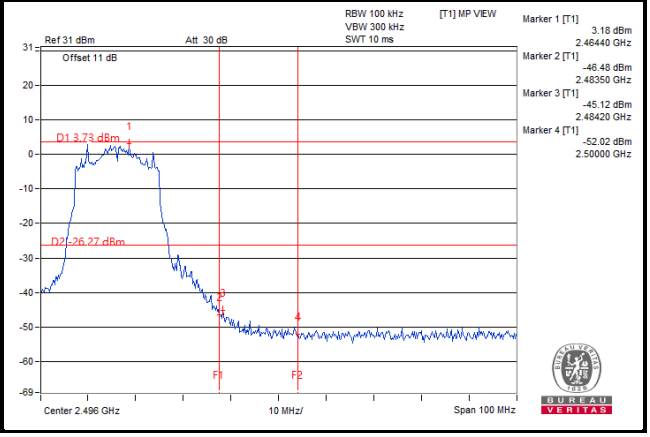




Ch 11



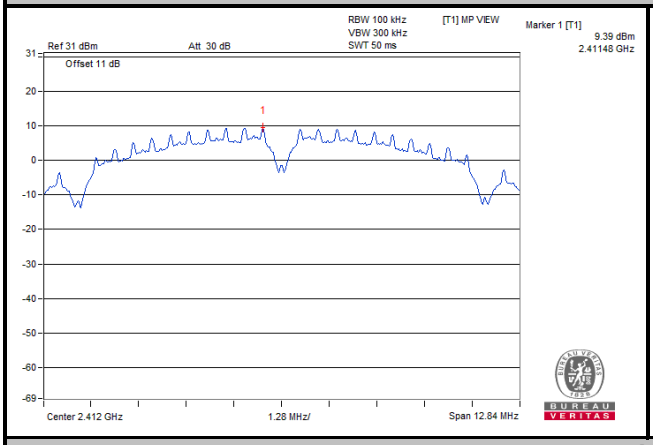


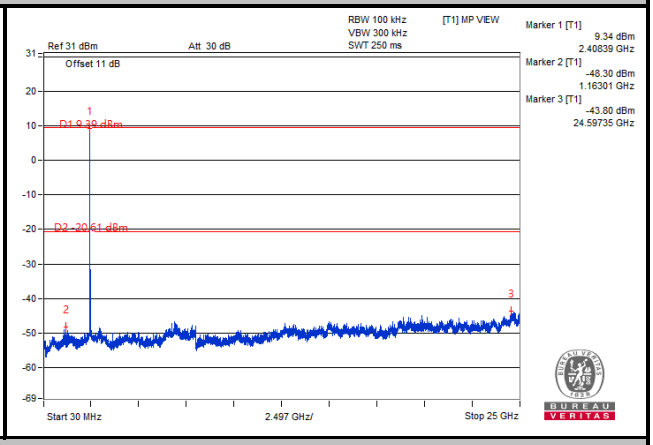
Ch 1 Band Edge	Ch 11 Band Edge
	

Ant. 2

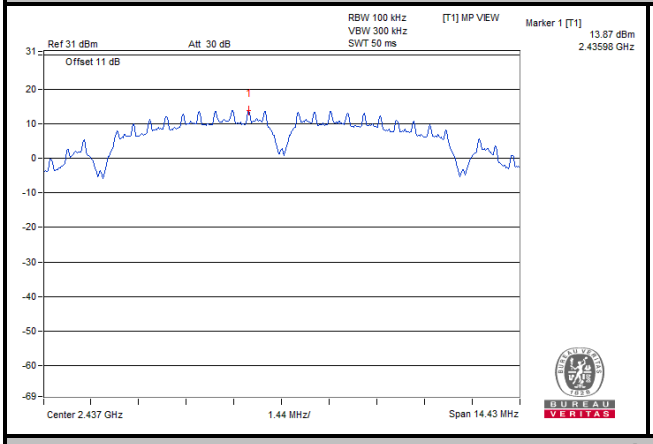
802.11b

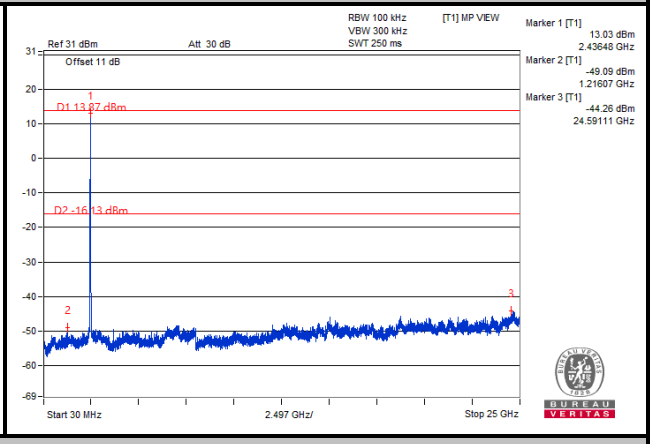
Ch 1



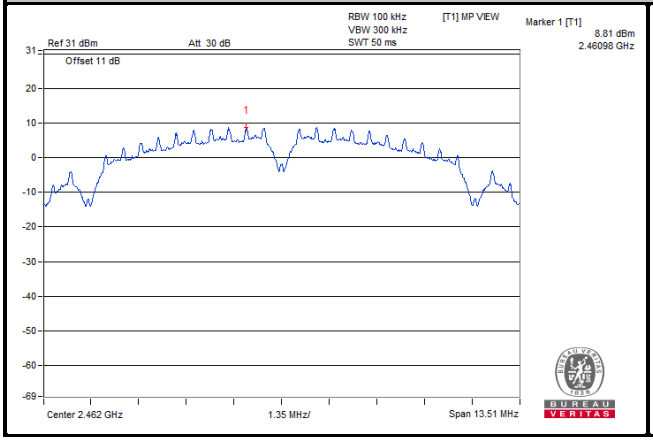


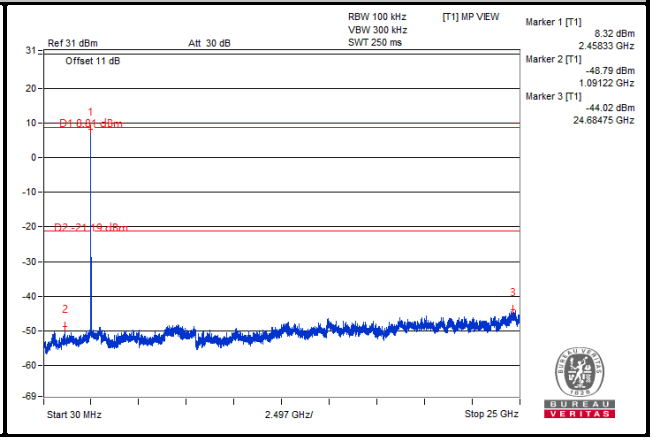
Ch 6

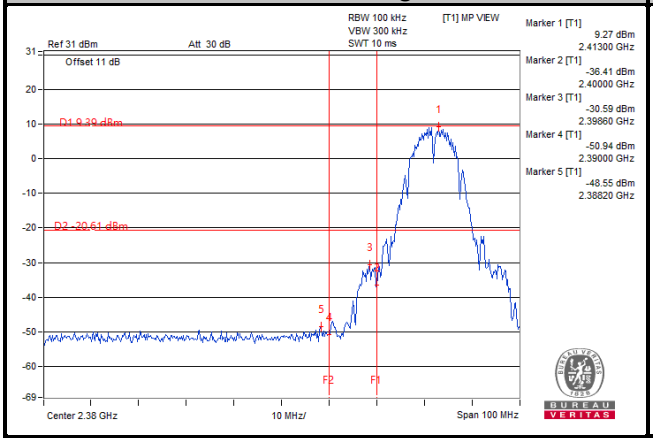
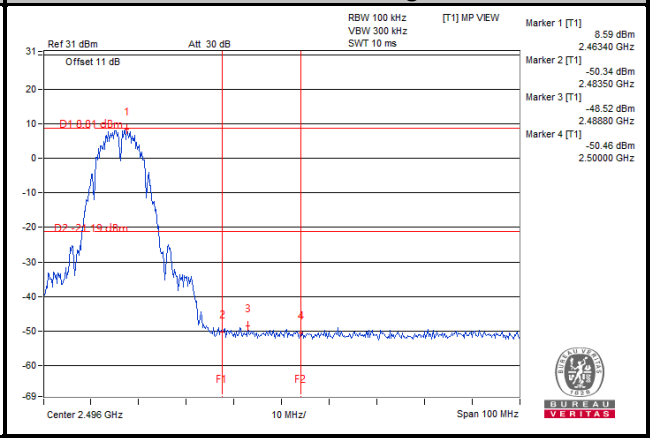




Ch 11

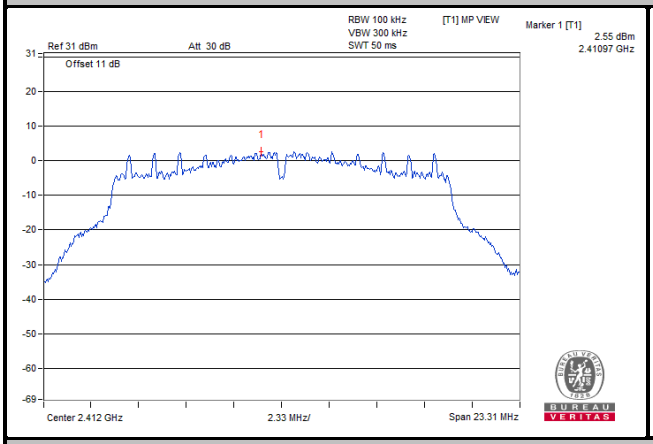


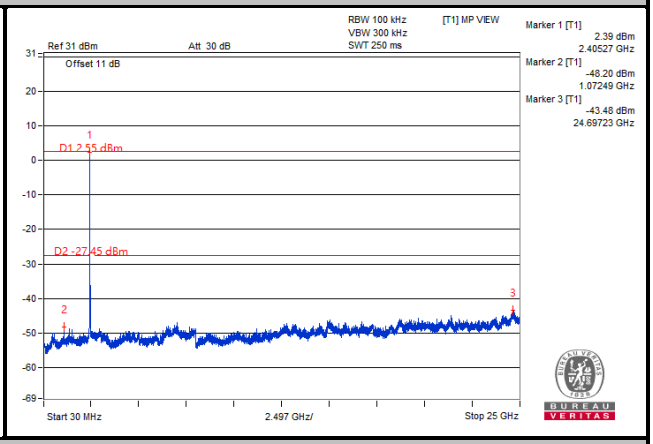


Ch 1 Band Edge	Ch 11 Band Edge
	

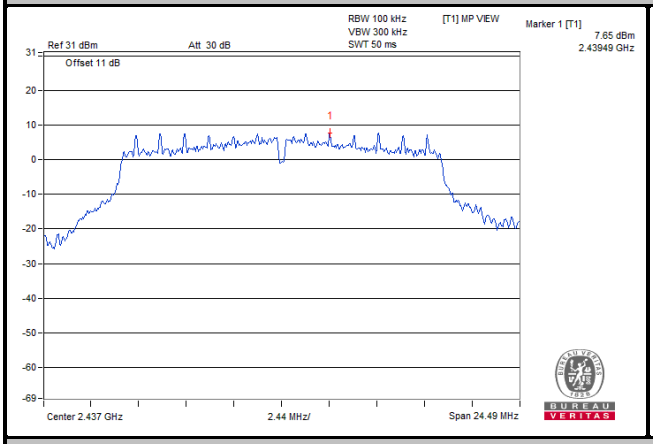
802.11g

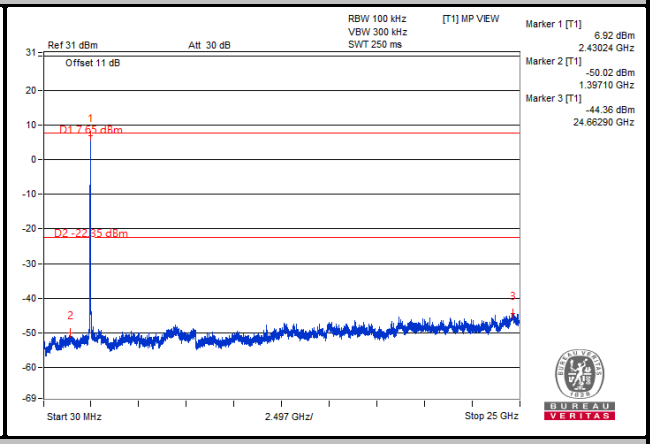
Ch 1



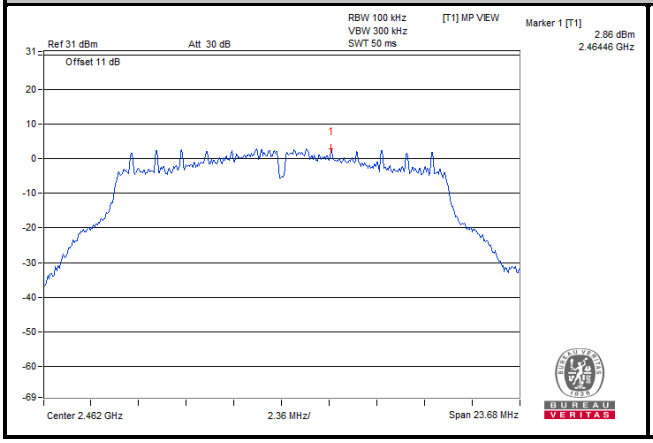


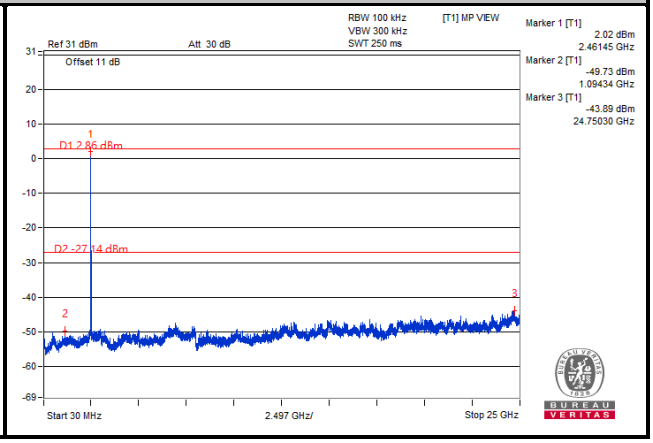
Ch 6

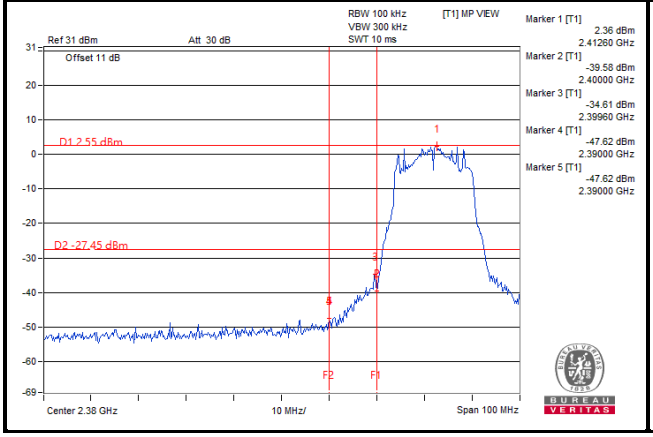
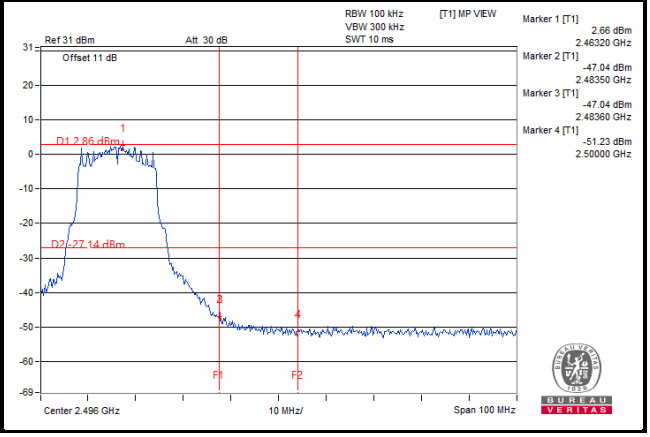




Ch 11

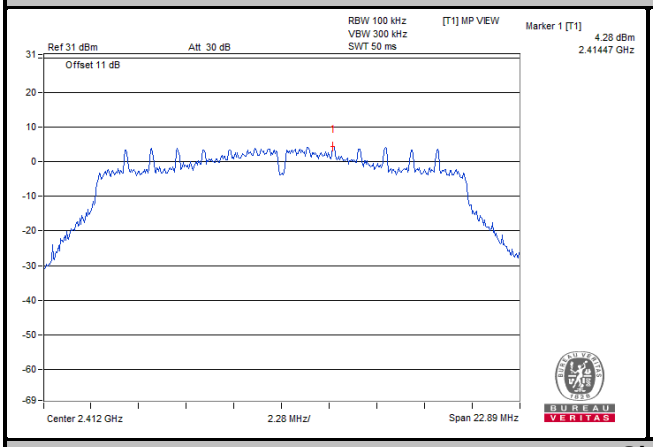


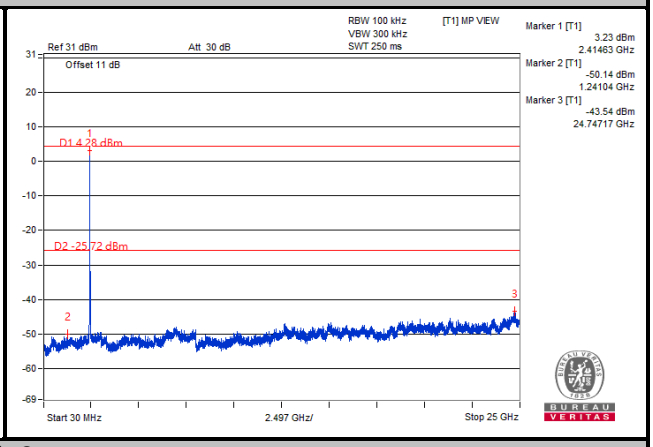


Ch 1 Band Edge	Ch 11 Band Edge
	

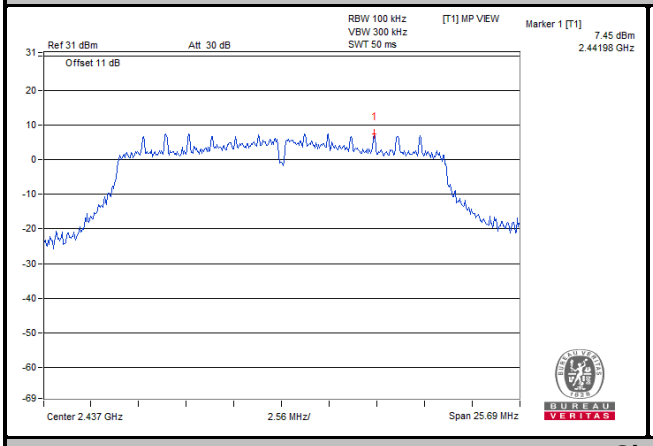
802.11n (HT20)

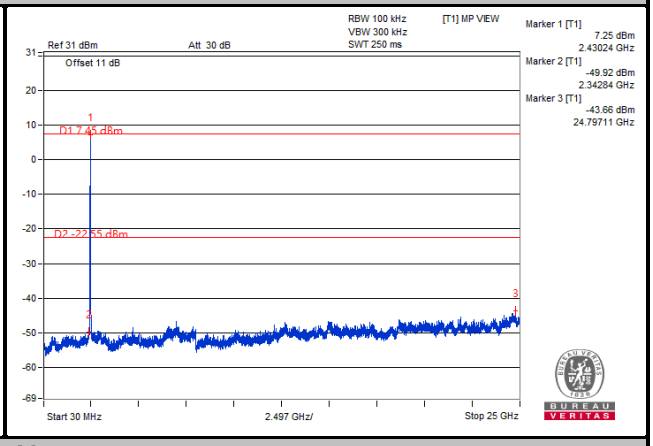
Ch 1



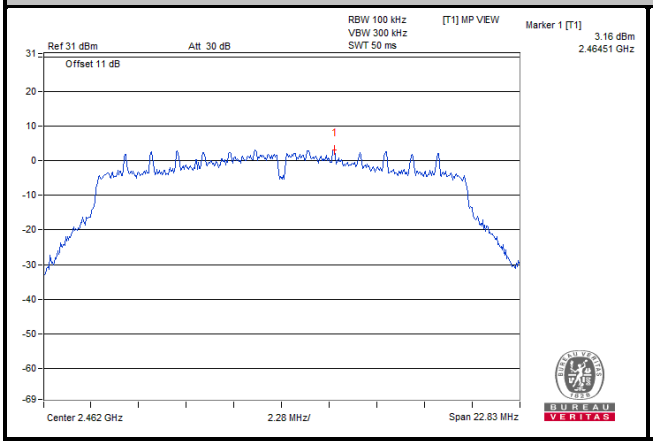


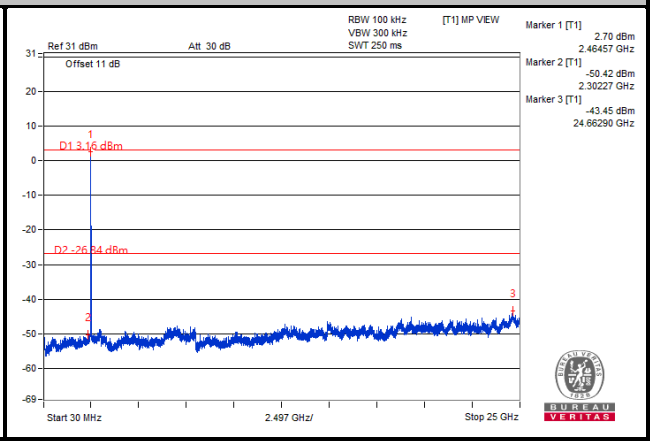
Ch 6

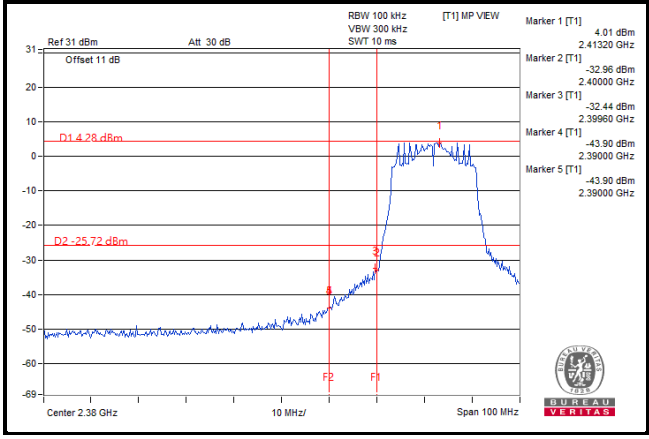
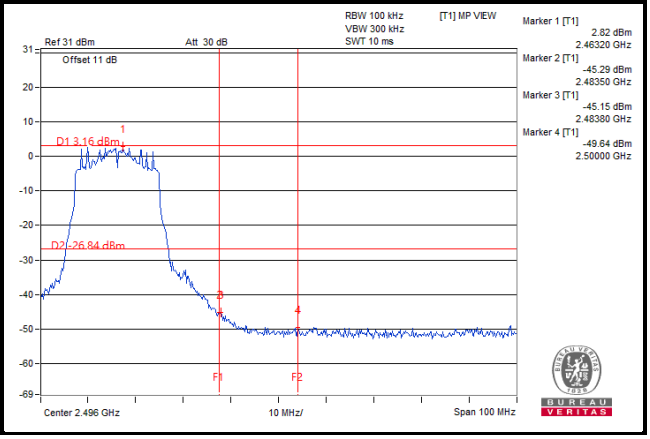




Ch 11





Ch 1 Band Edge	Ch 11 Band Edge
	

5 Pictures of Test Arrangements

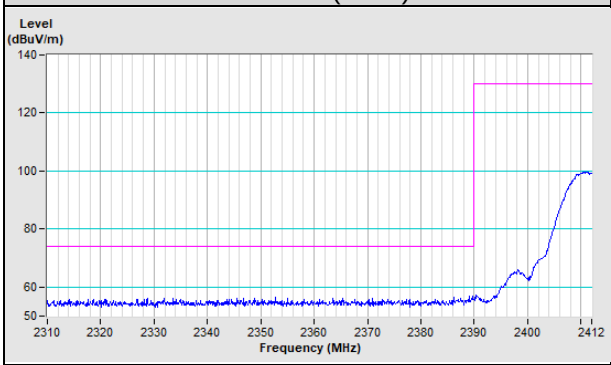
Please refer to the attached file (Test Setup Photo).

Annex A- Band Edge Measurement

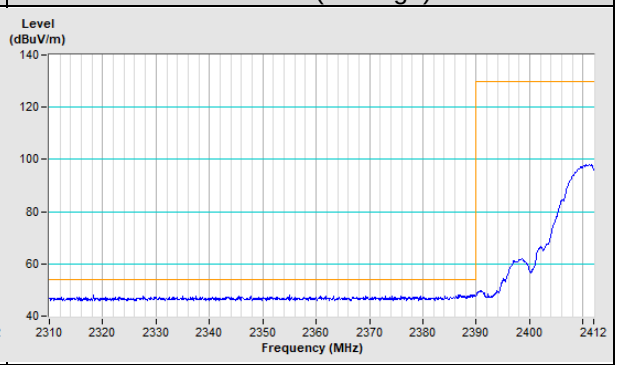
Ant. 1

802.11b Channel 1

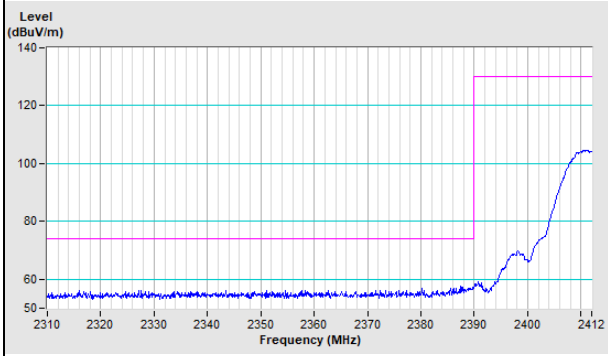
Horizontal (Peak)



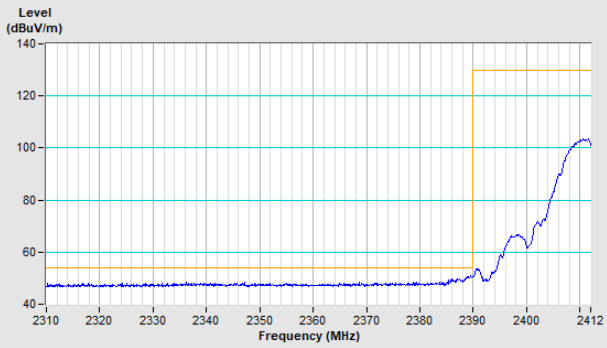
Horizontal (Average)



Vertical (Peak)

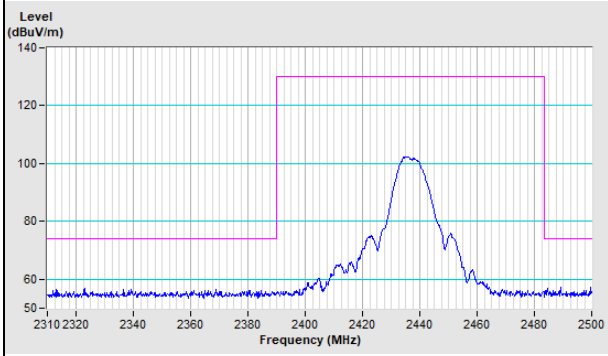


Vertical (Average)

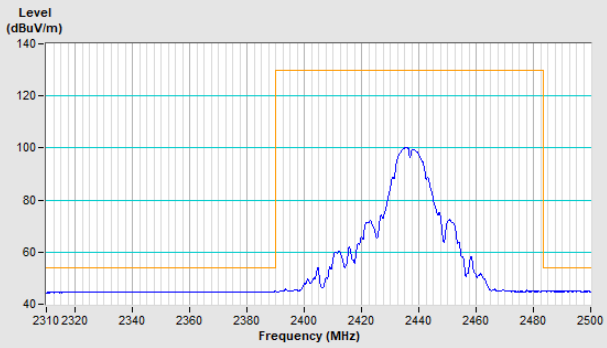


802.11b Channel 6

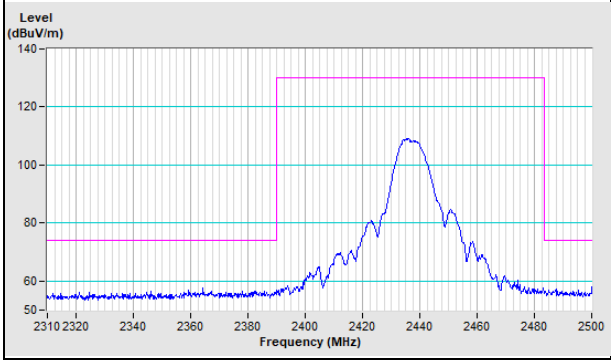
Horizontal (Peak)



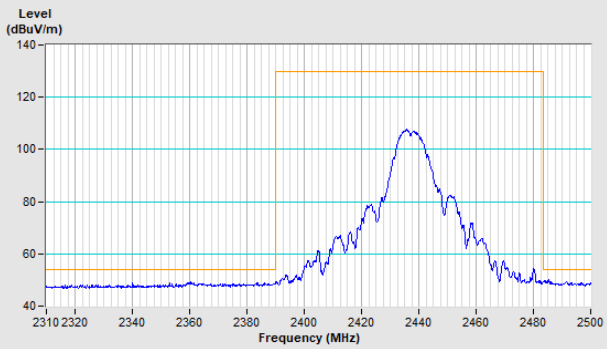
Horizontal (Average)

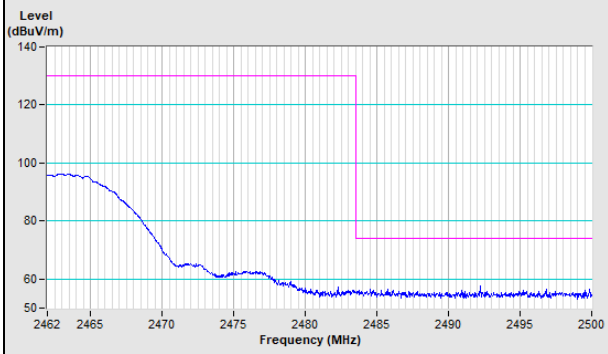
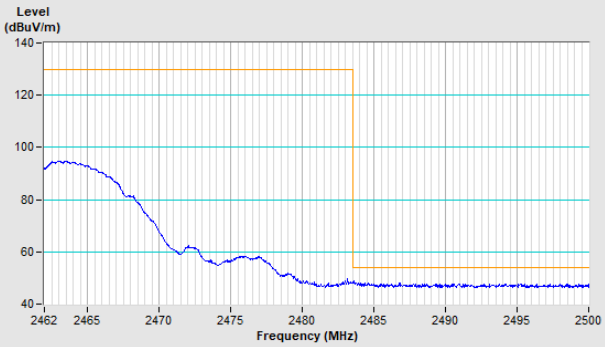
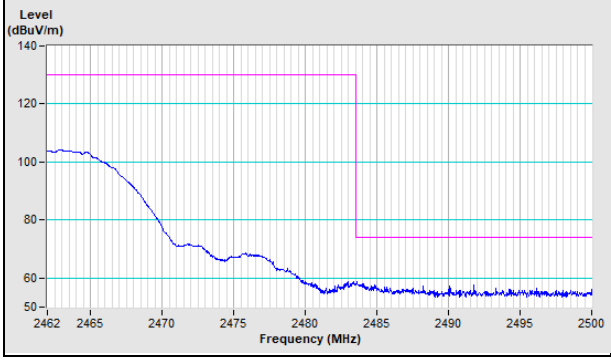
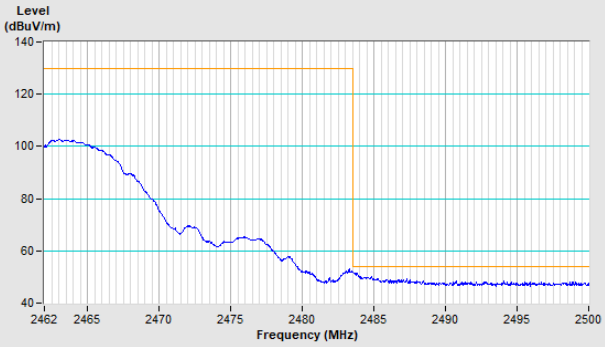


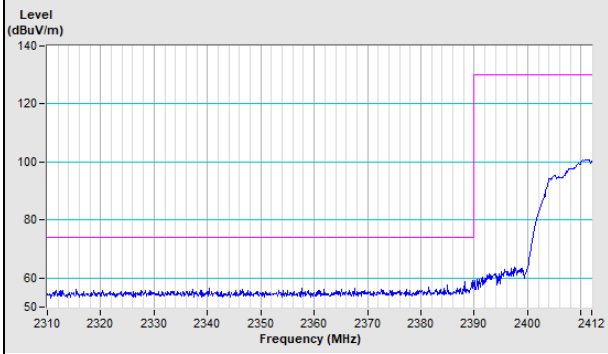
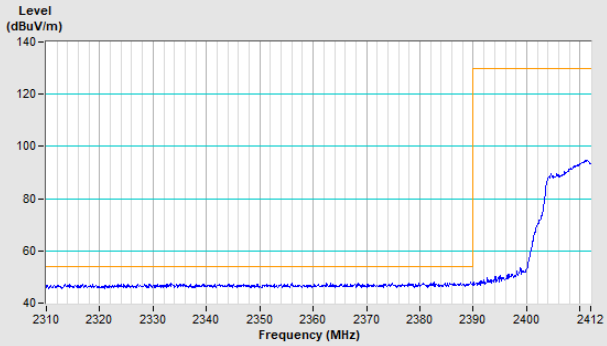
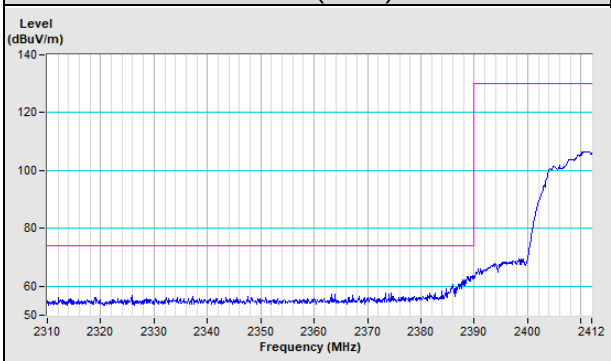
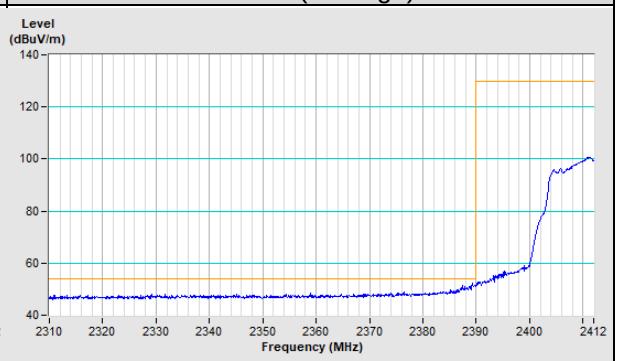
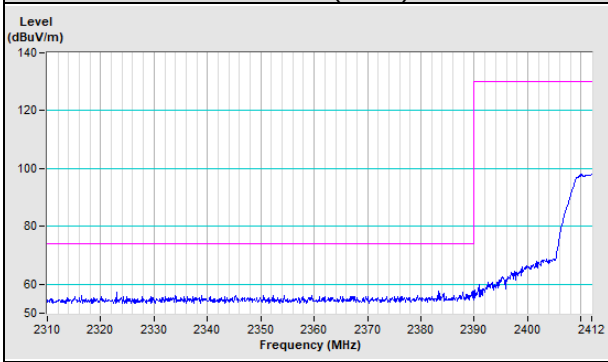
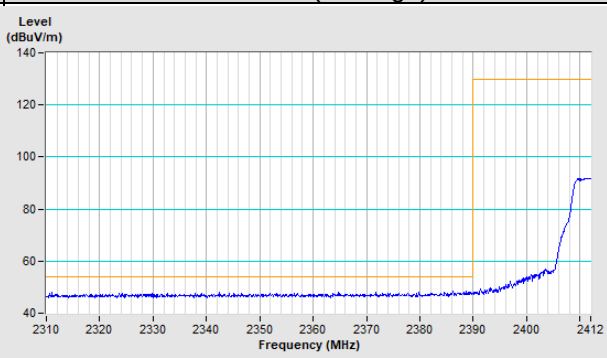
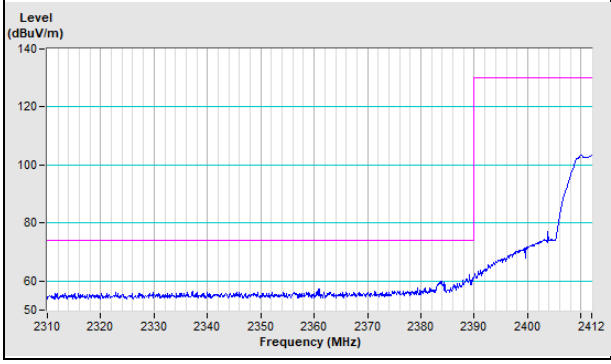
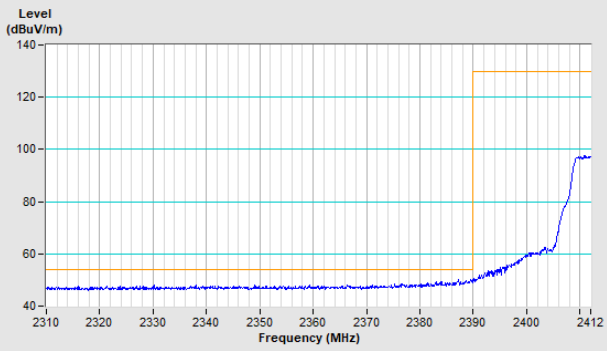
Vertical (Peak)



Vertical (Average)

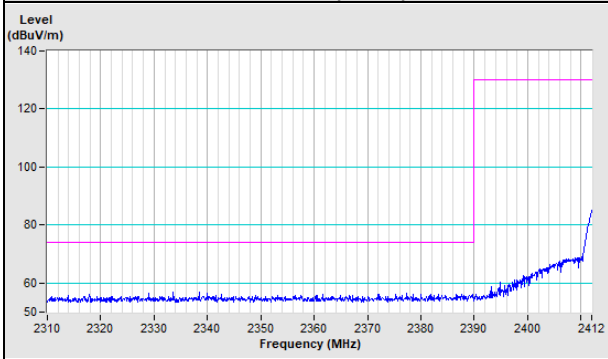


802.11b Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

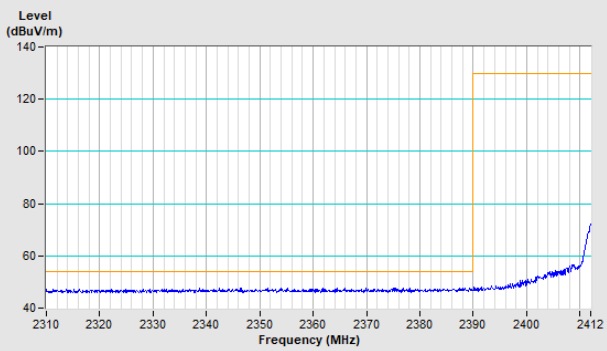
802.11g Channel 1	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11g Channel 2	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 3

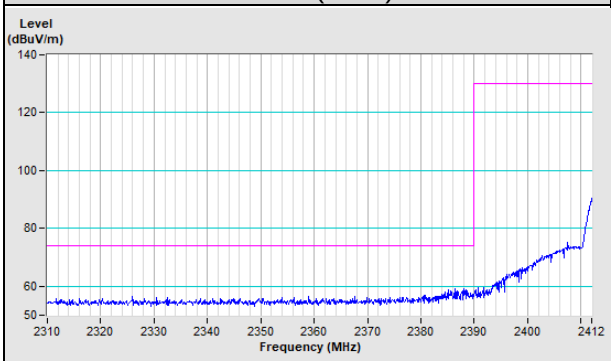
Horizontal (Peak)



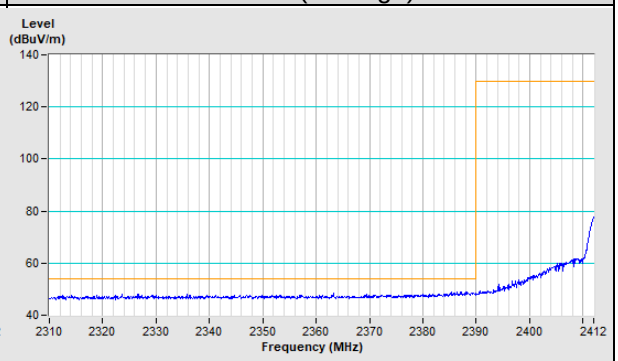
Horizontal (Average)



Vertical (Peak)

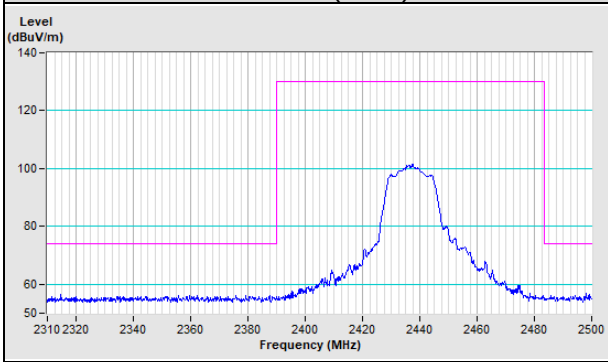


Vertical (Average)

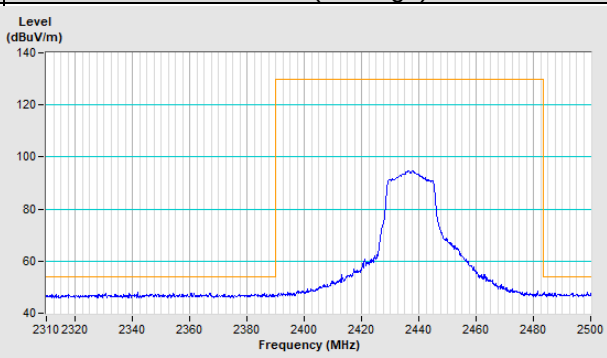


802.11g Channel 6

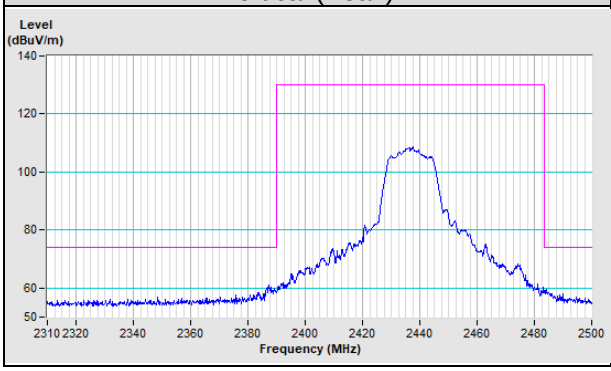
Horizontal (Peak)



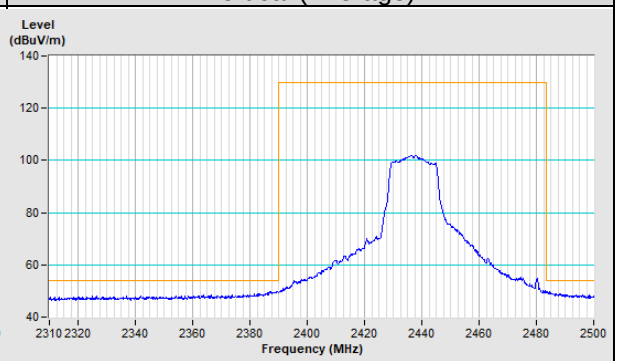
Horizontal (Average)

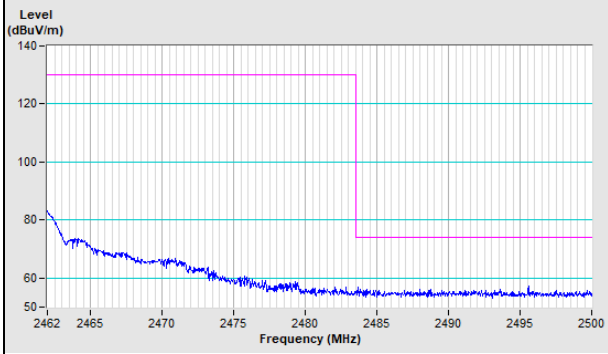
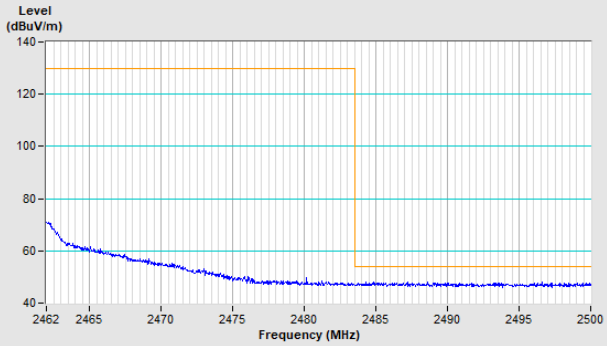
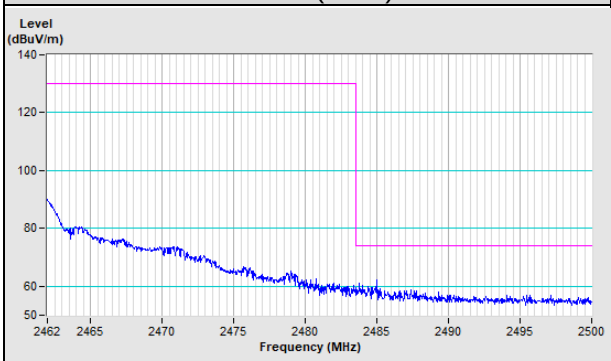
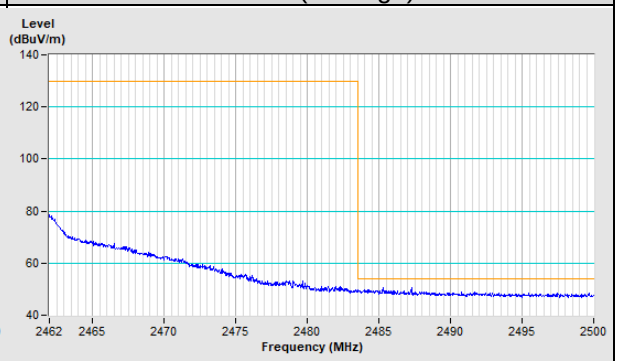
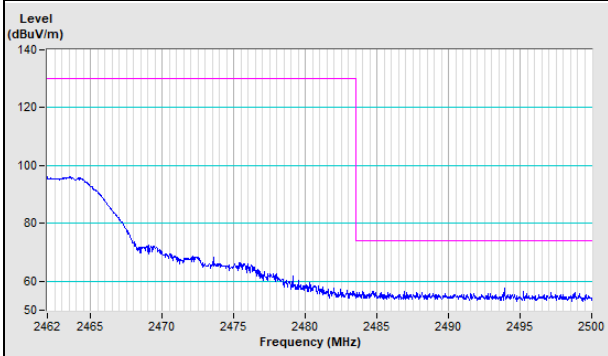
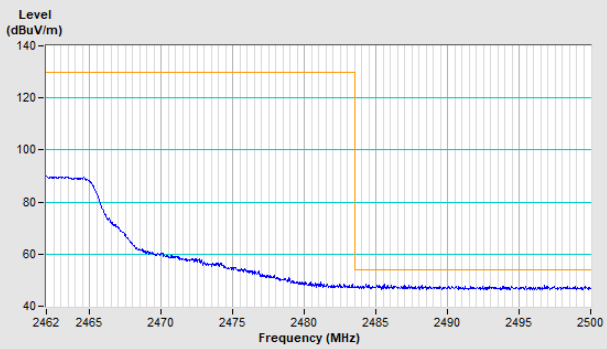
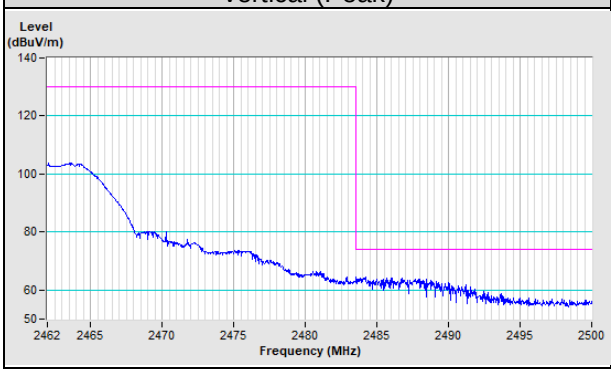
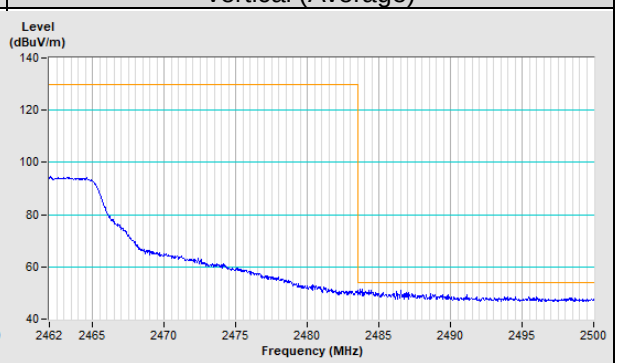


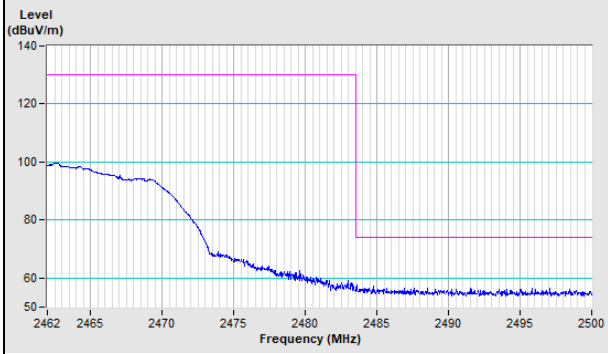
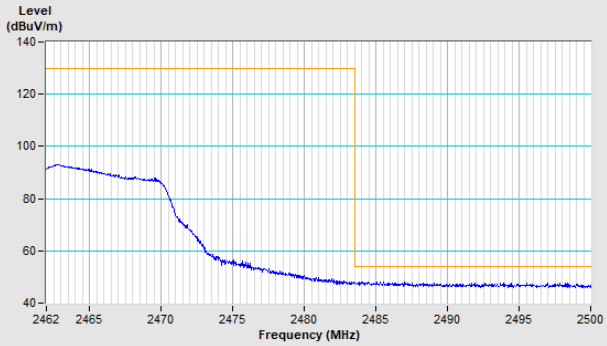
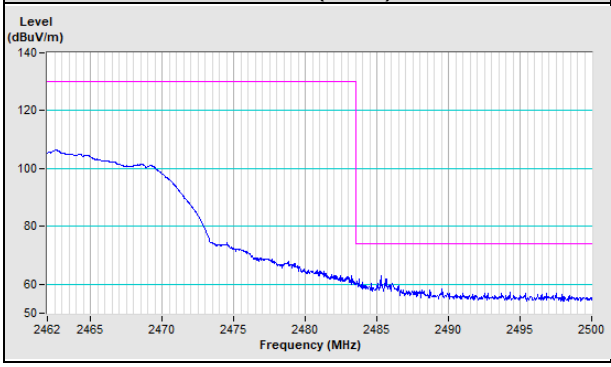
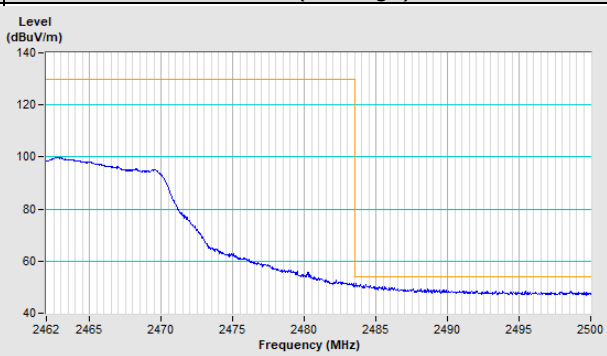
Vertical (Peak)

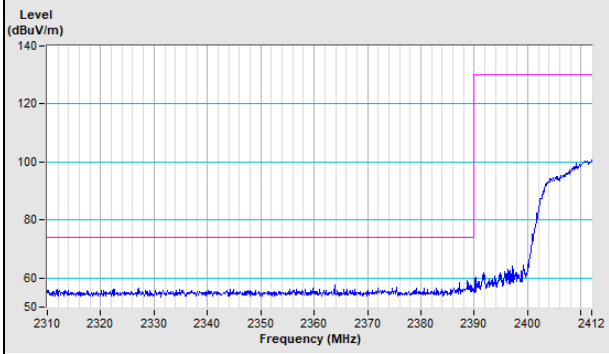
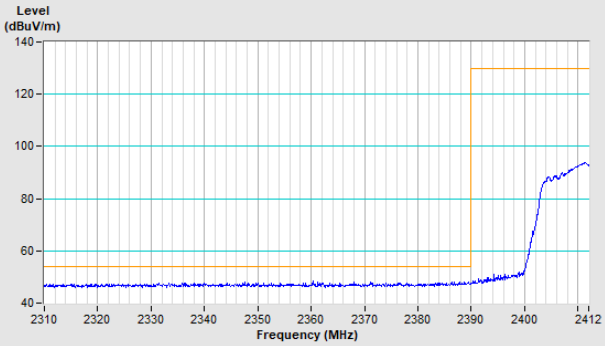
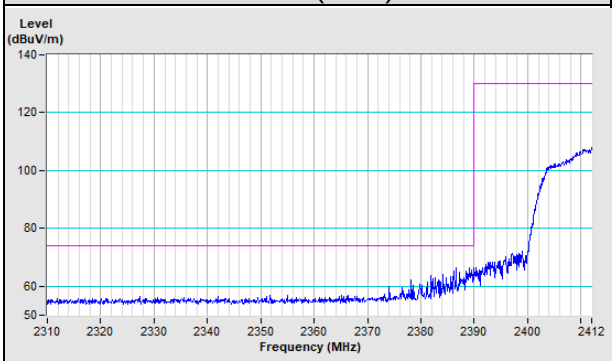
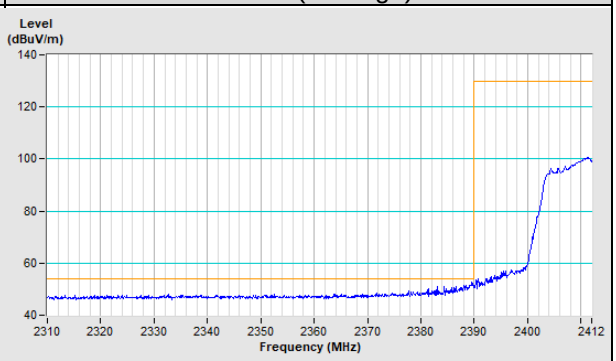
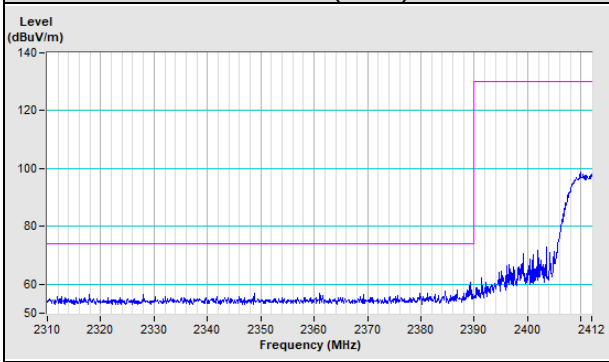
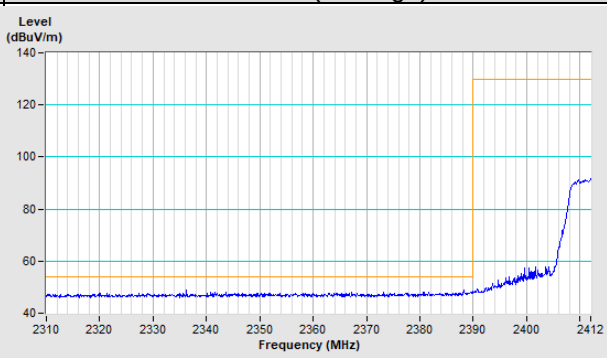
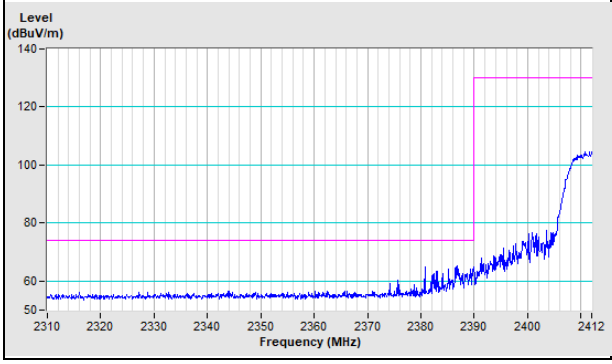
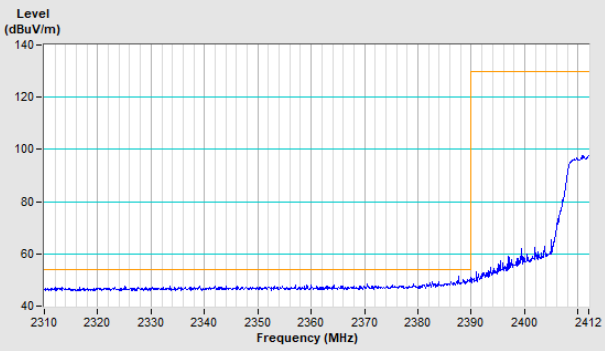


Vertical (Average)



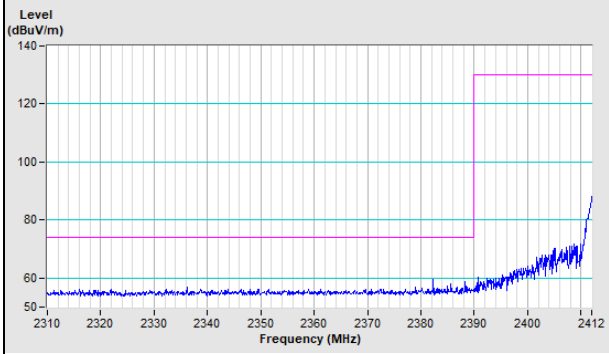
802.11g Channel 9	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11g Channel 10	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

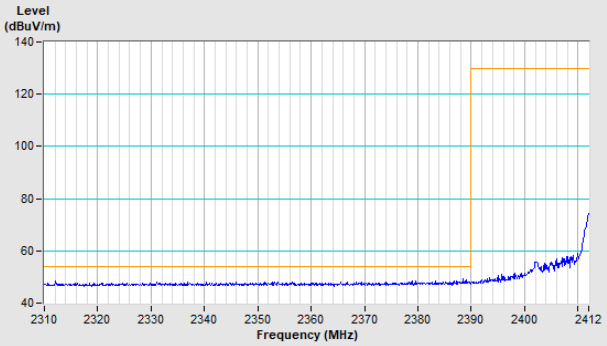
802.11n (HT20) Channel 1	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11n (HT20) Channel 2	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11n (HT20) Channel 3

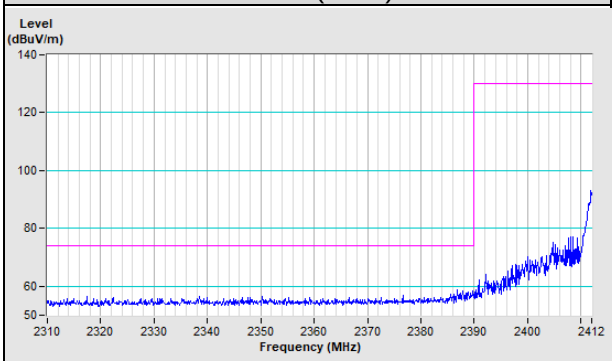
Horizontal (Peak)



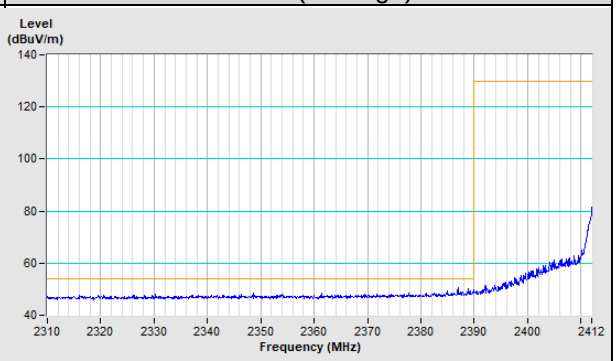
Horizontal (Average)



Vertical (Peak)

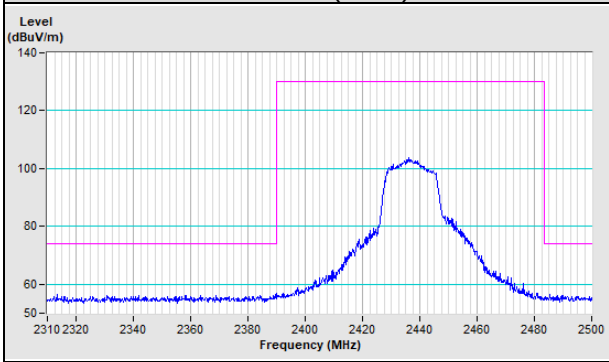


Vertical (Average)

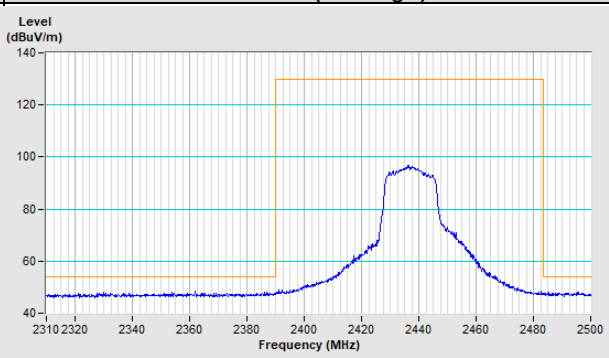


802.11n (HT20) Channel 6

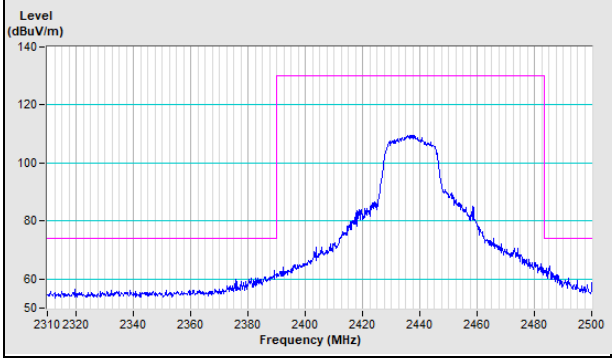
Horizontal (Peak)



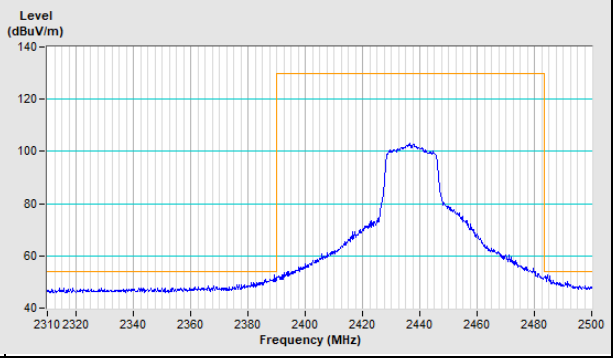
Horizontal (Average)

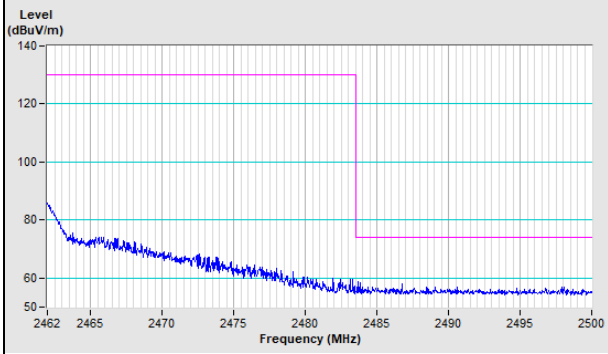
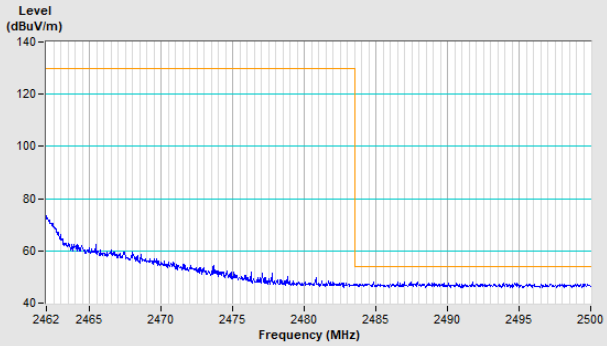
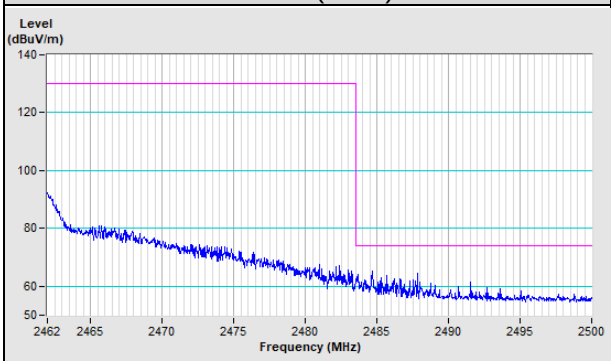
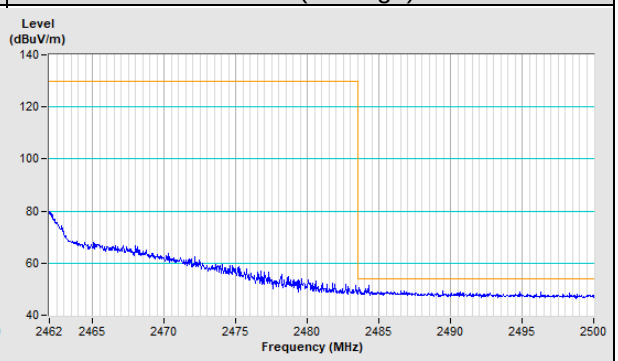
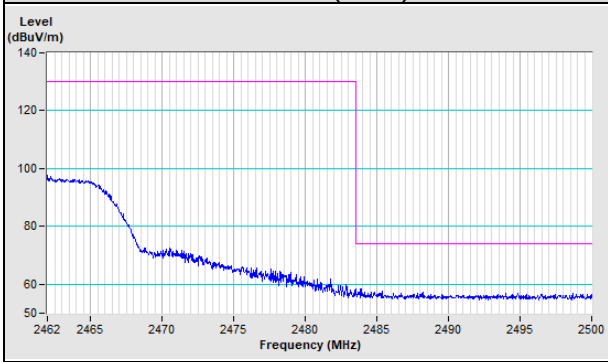
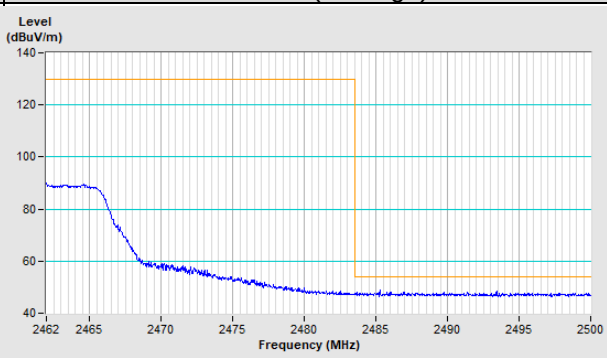
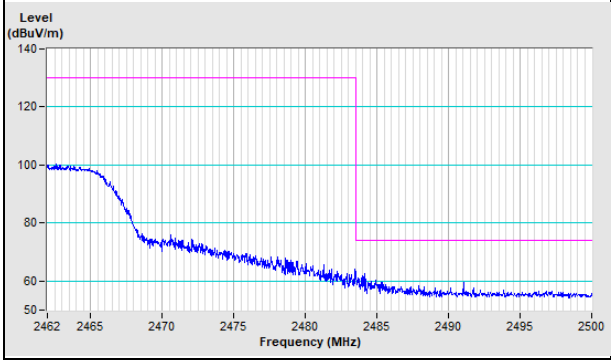
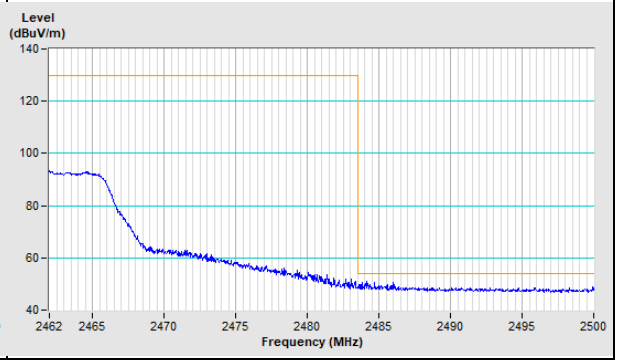


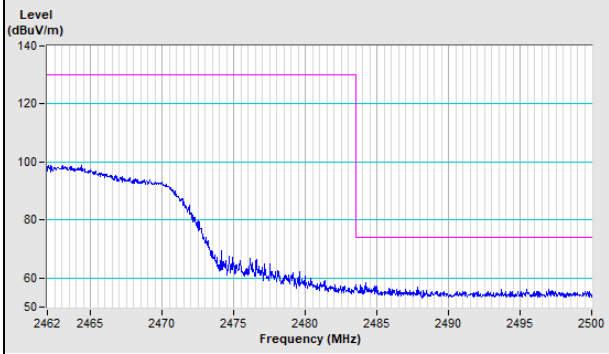
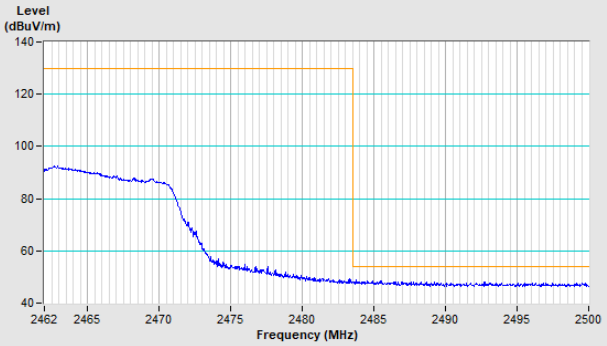
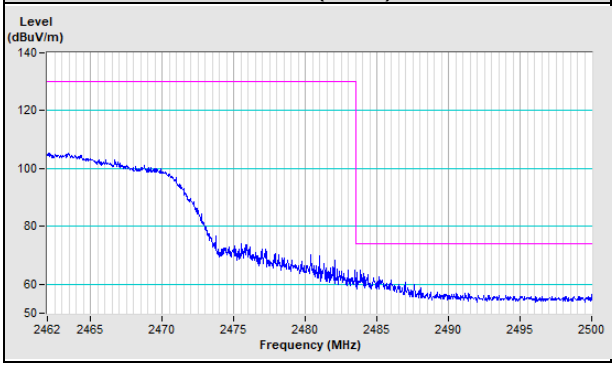
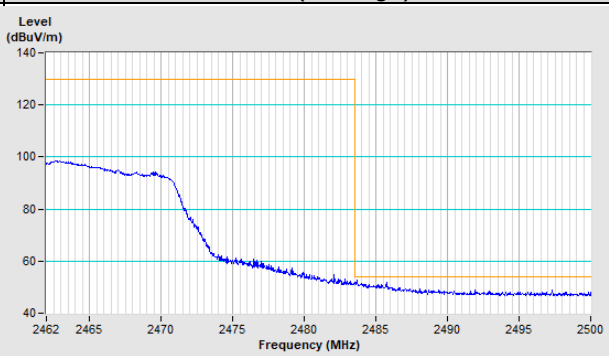
Vertical (Peak)



Vertical (Average)



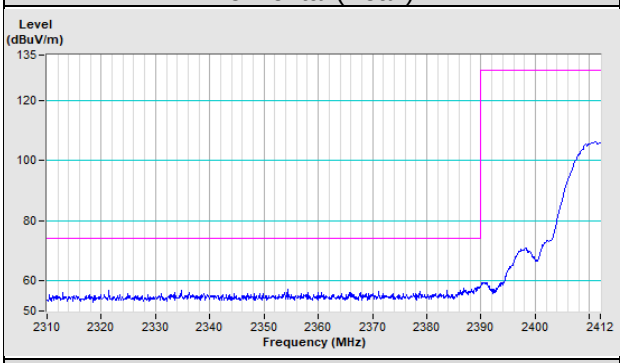
802.11n (HT20) Channel 9	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11n (HT20) Channel 10	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11n (HT20) Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

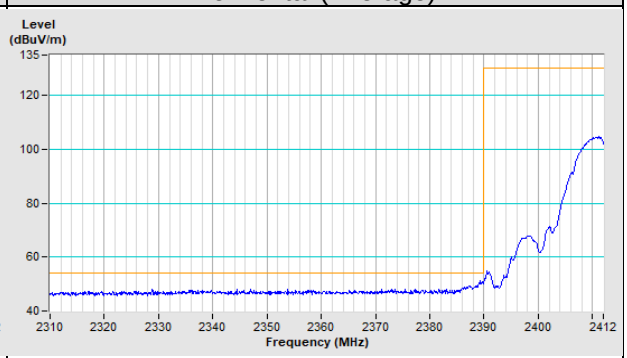
Ant. 2

802.11b Channel 1

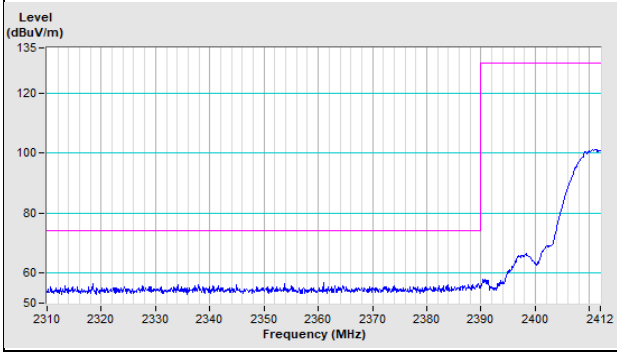
Horizontal (Peak)



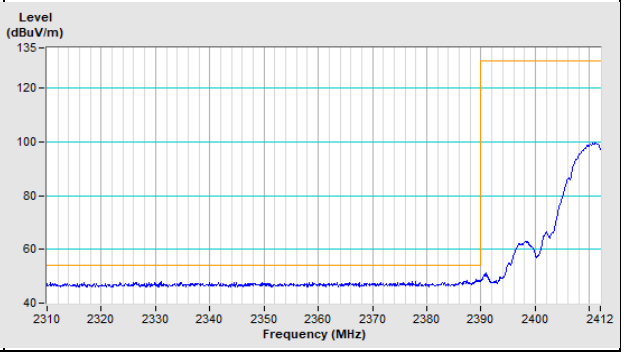
Horizontal (Average)



Vertical (Peak)

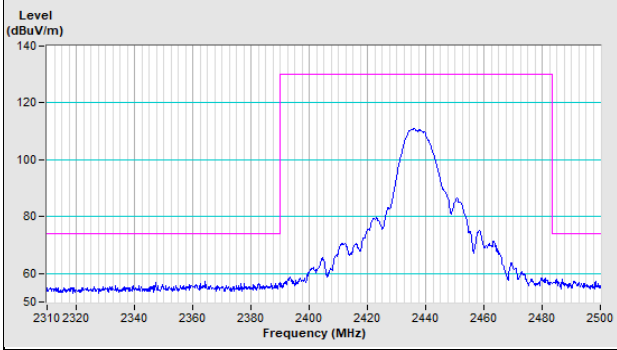


Vertical (Average)

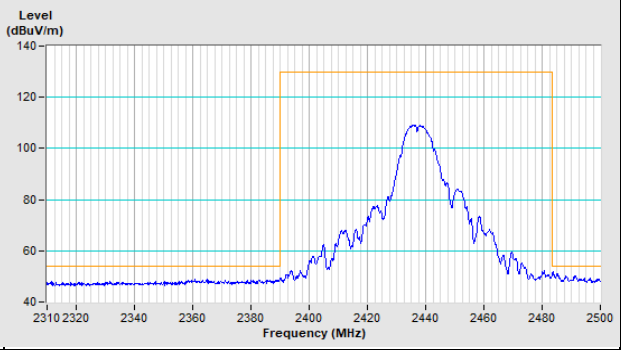


802.11b Channel 6

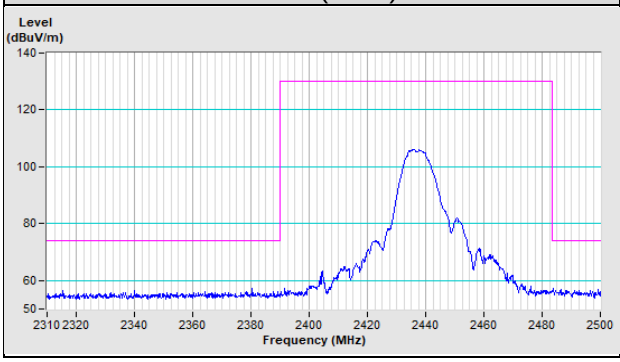
Horizontal (Peak)



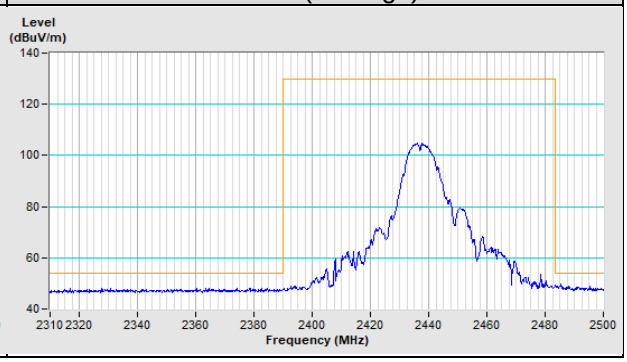
Horizontal (Average)

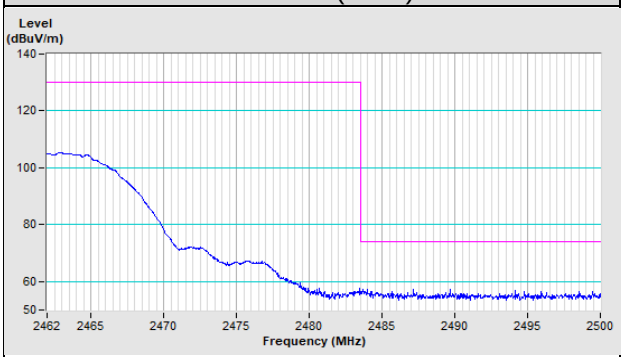
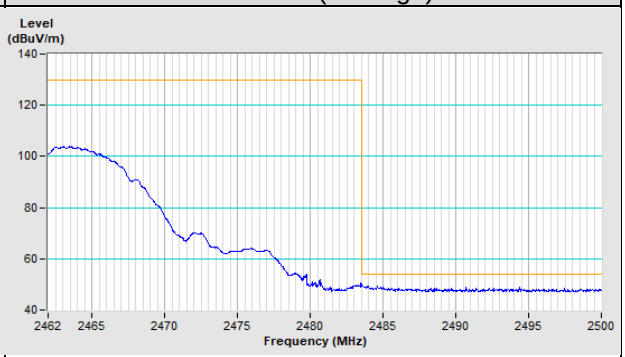
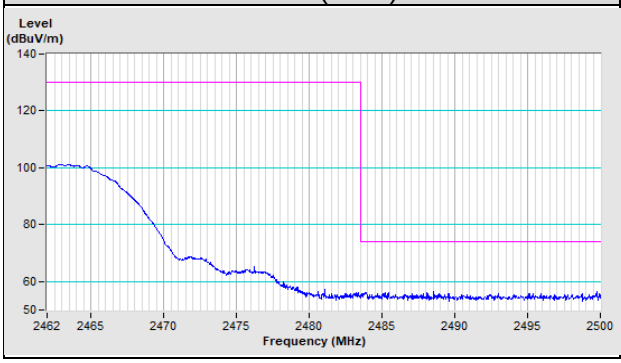
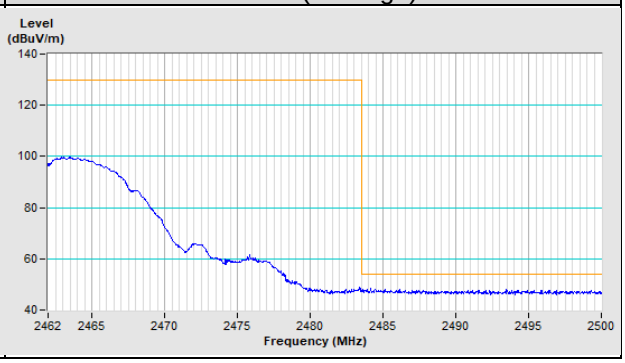


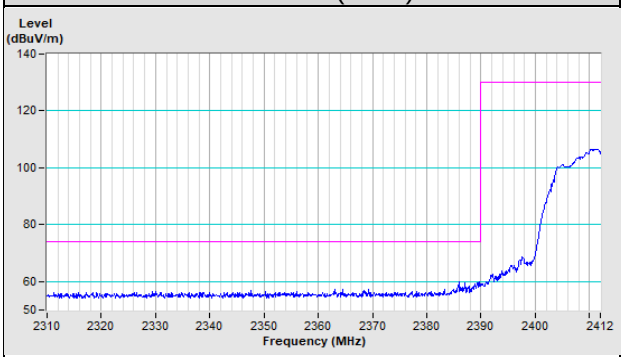
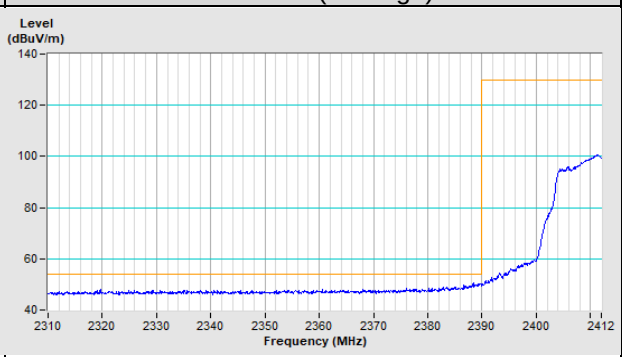
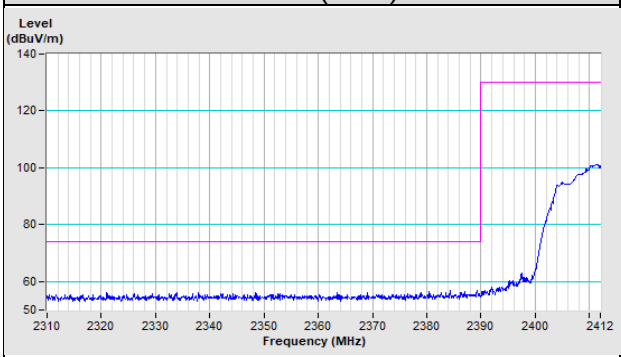
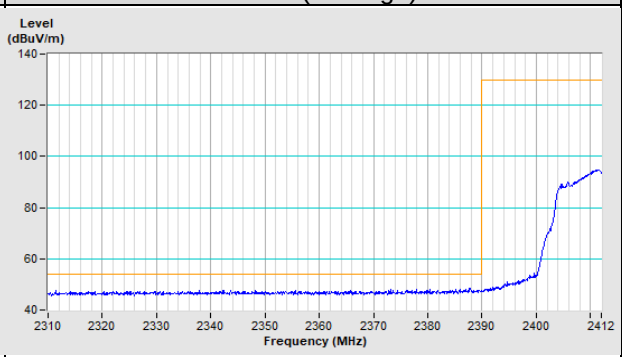
Vertical (Peak)

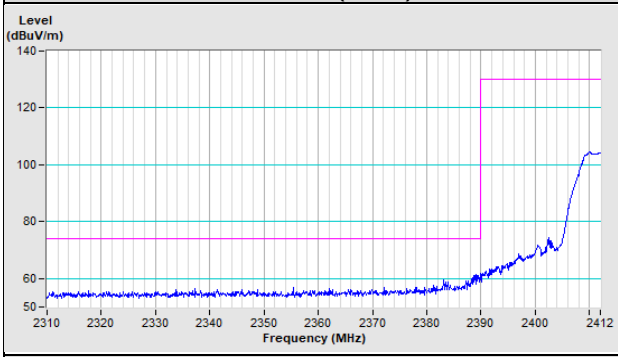
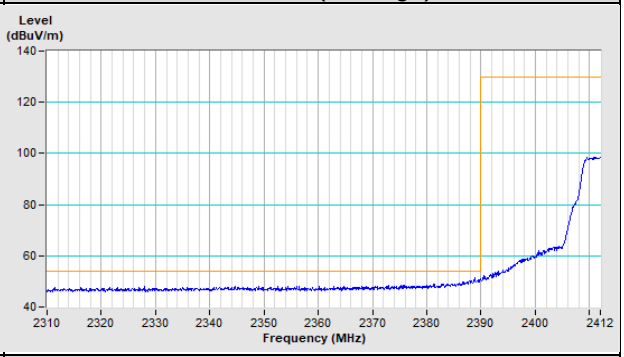
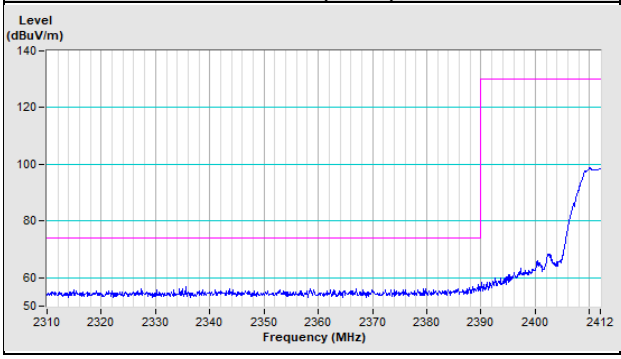
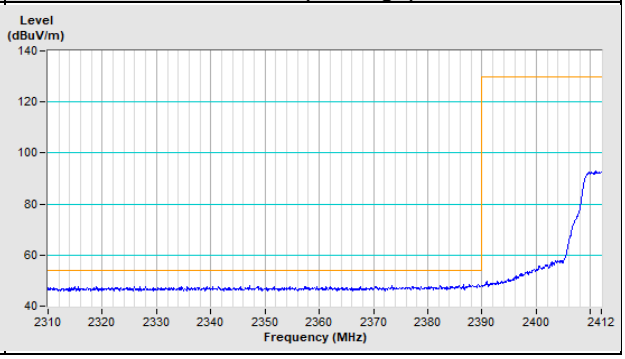


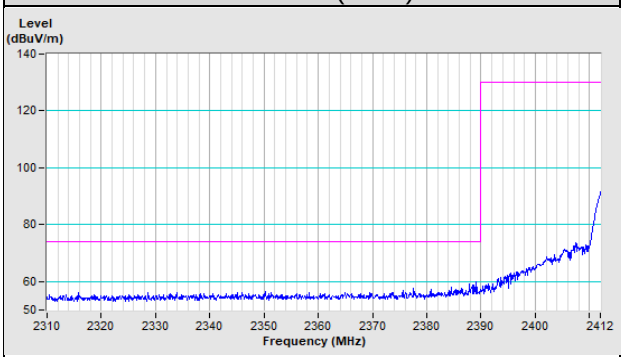
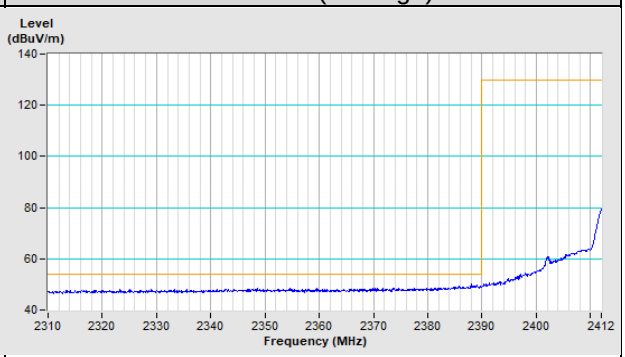
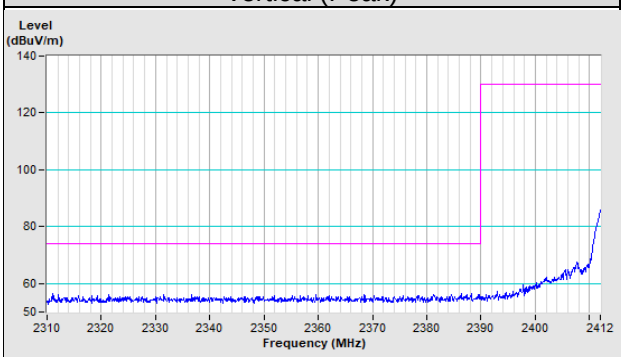
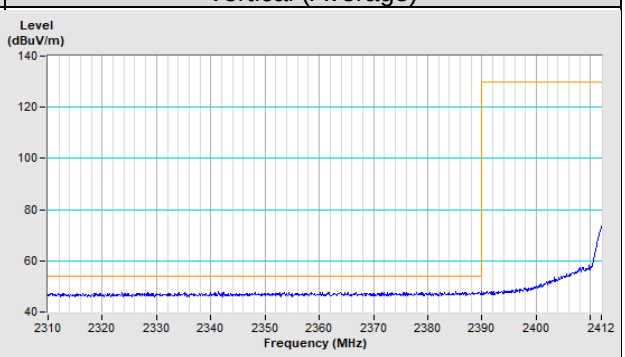
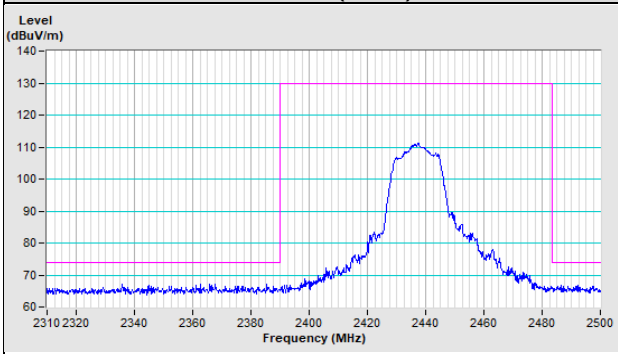
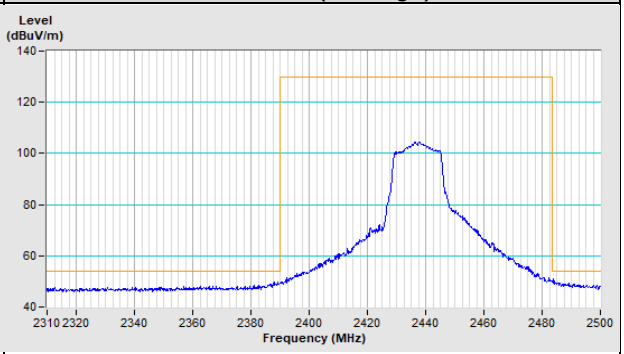
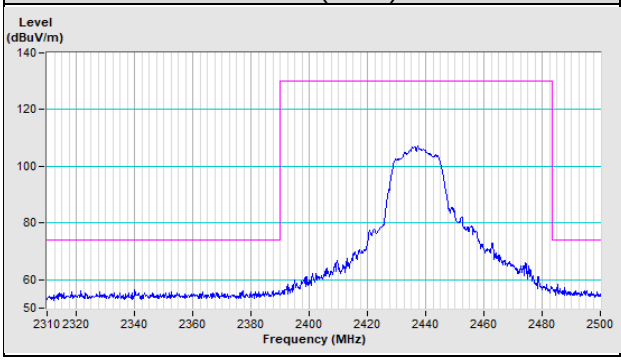
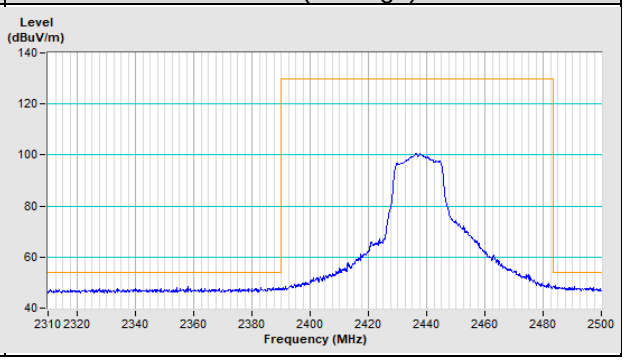
Vertical (Average)

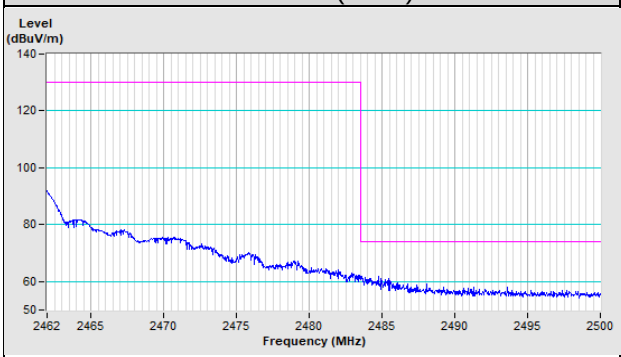
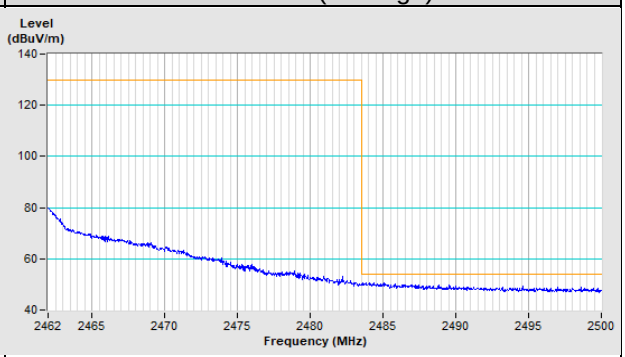
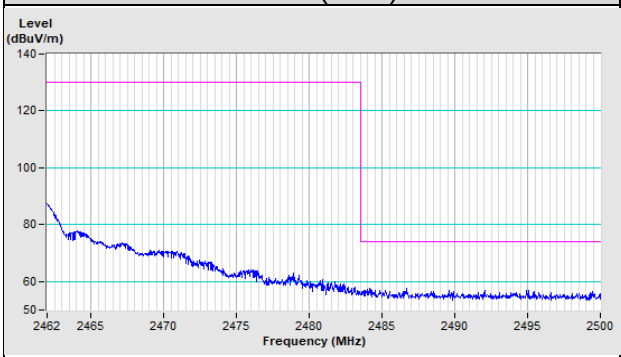
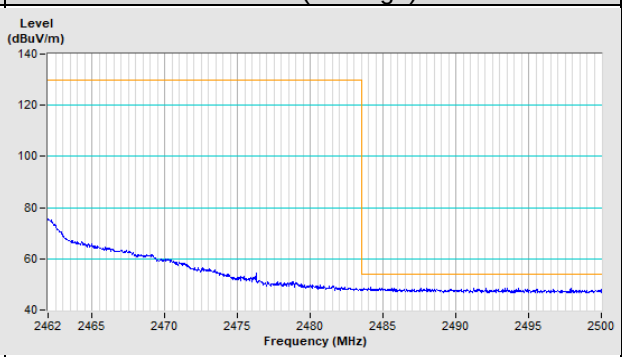
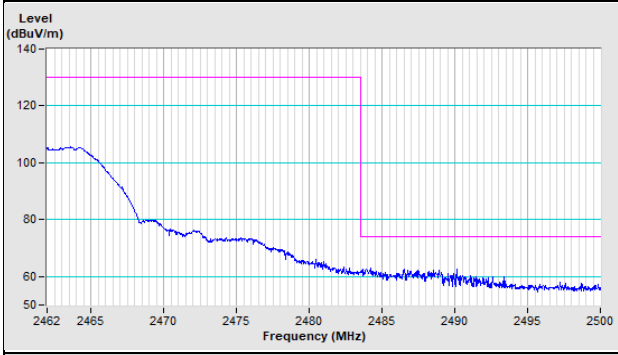
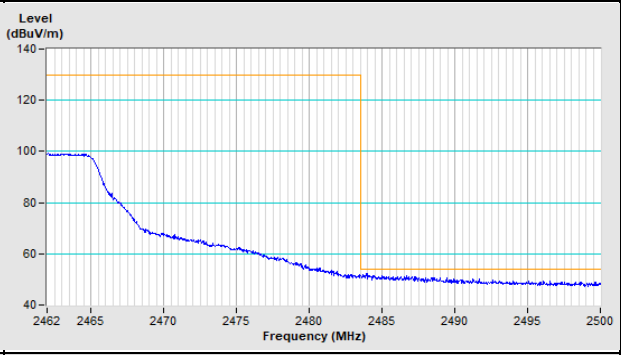
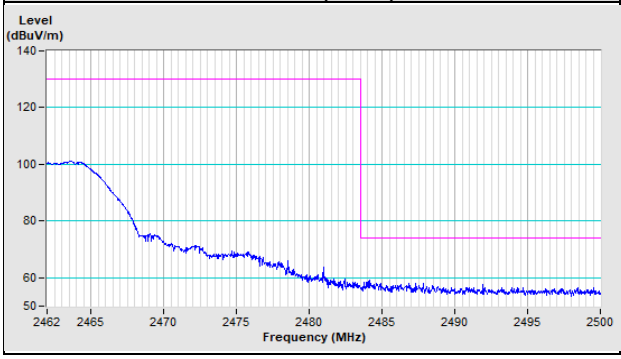
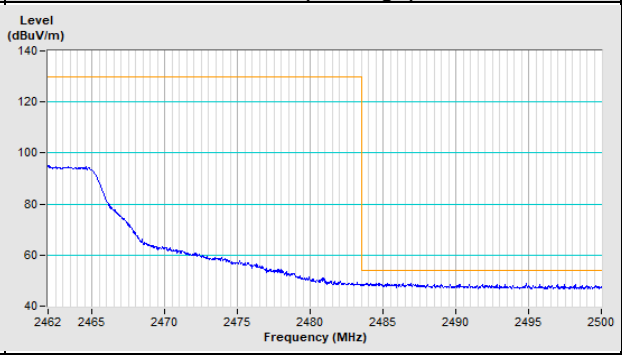


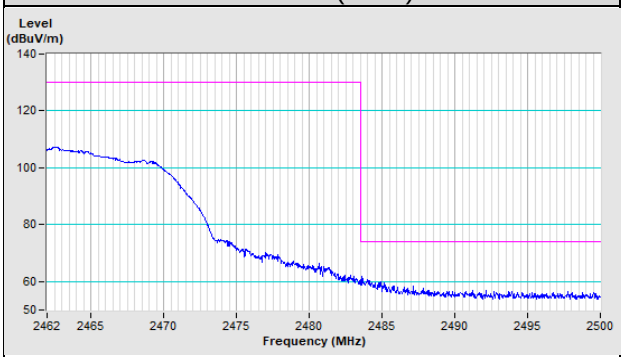
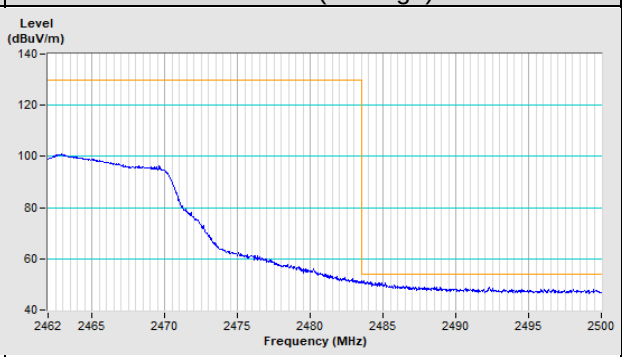
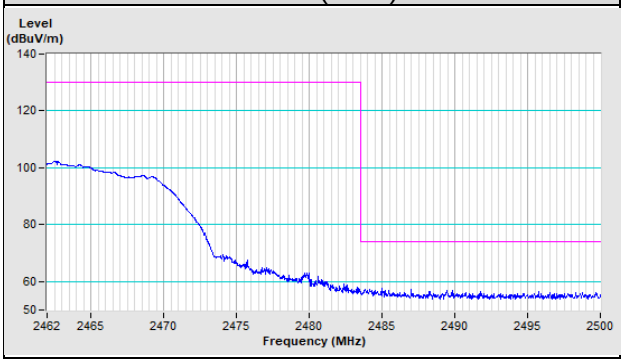
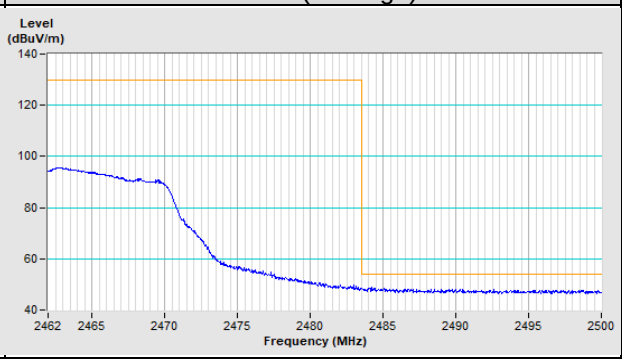
802.11b Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

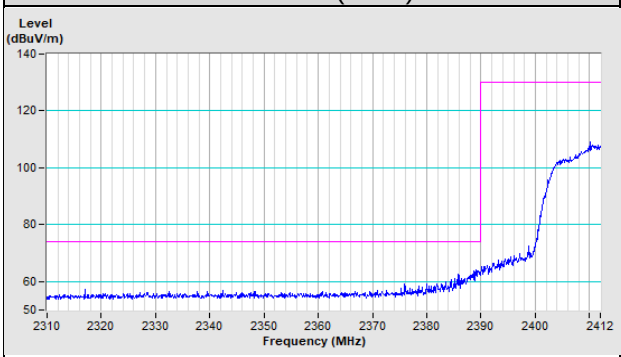
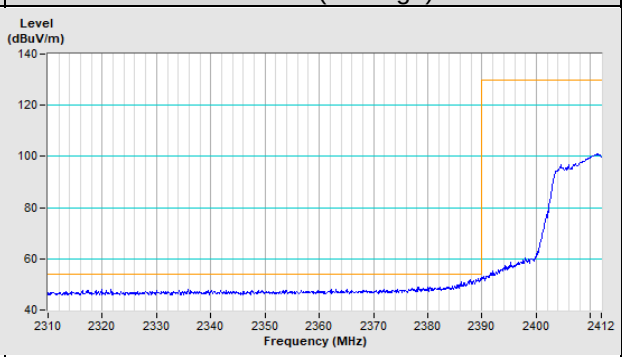
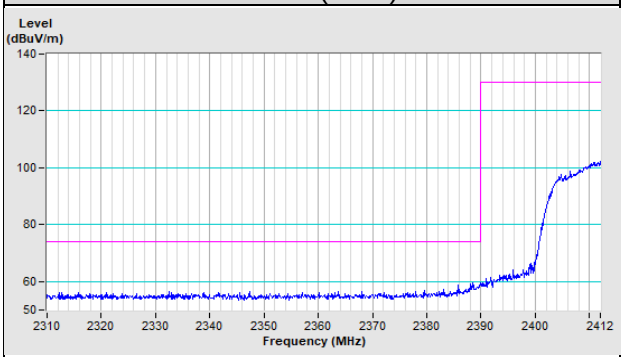
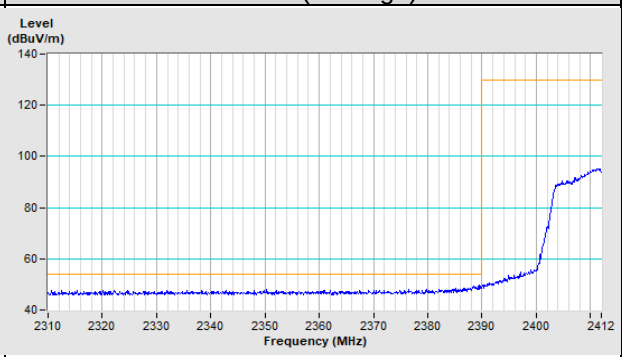
802.11g Channel 1	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 2	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 3	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11g Channel 6	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 9	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11g Channel 10	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11g Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11n (HT20) Channel 1	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

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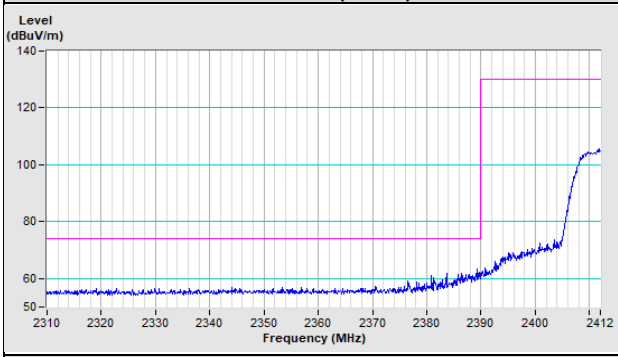
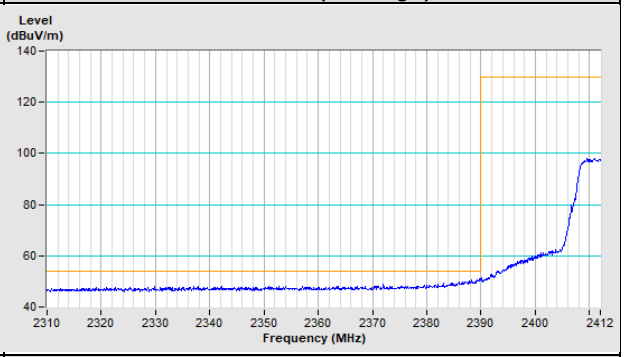
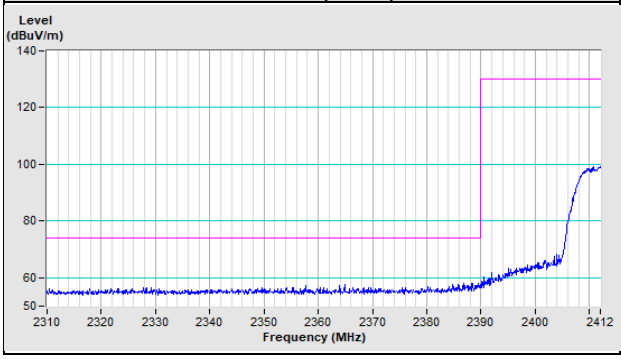
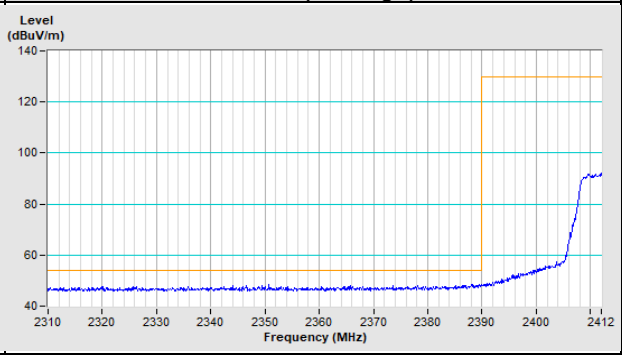
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

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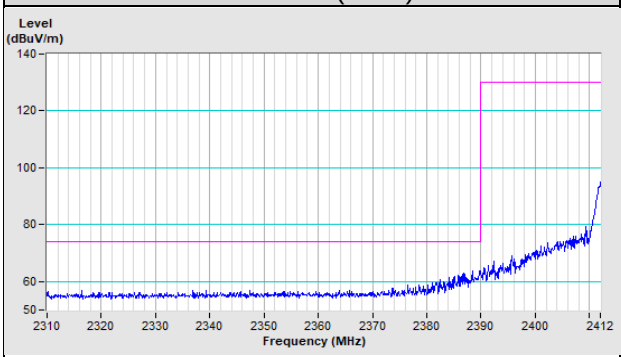
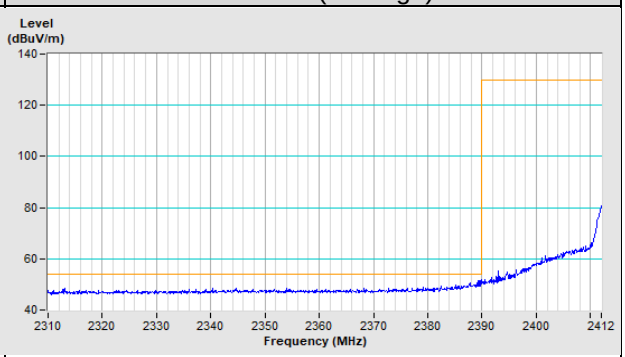
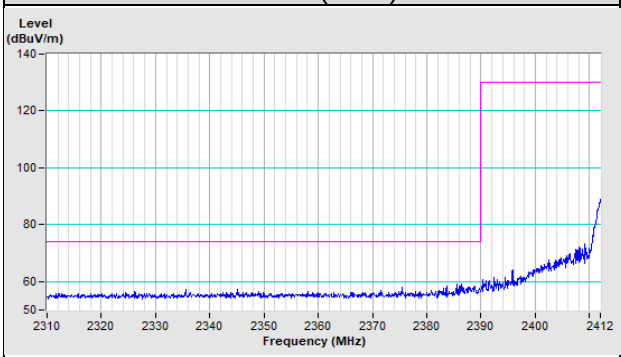
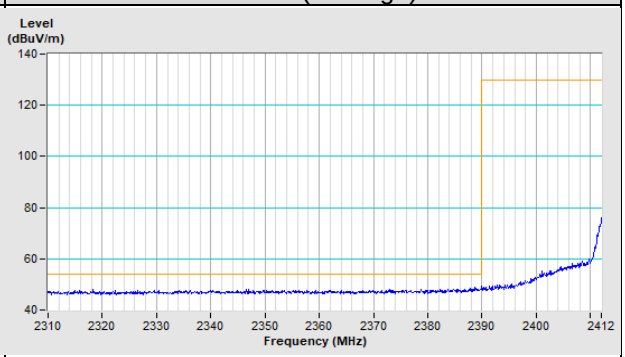
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
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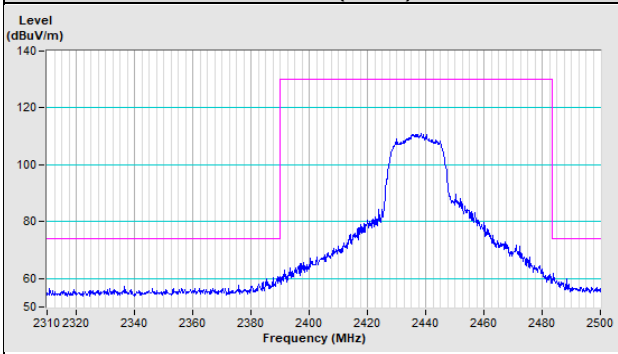
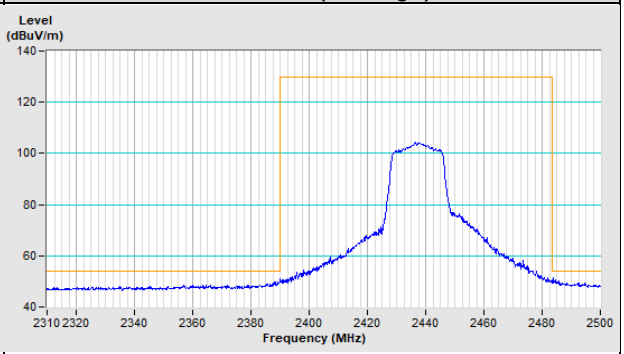
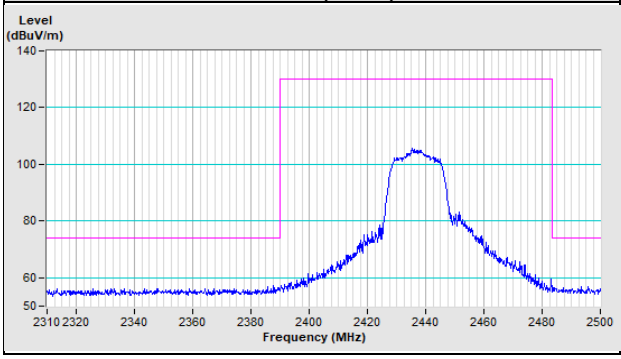
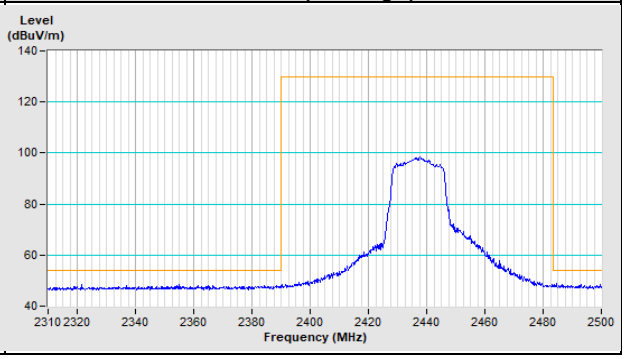
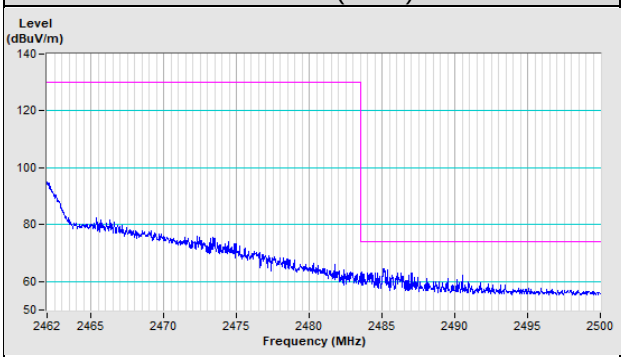
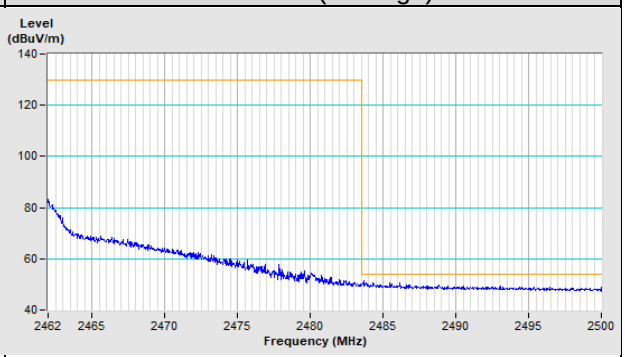
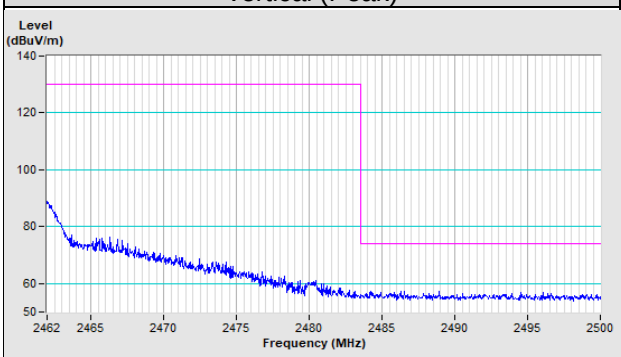
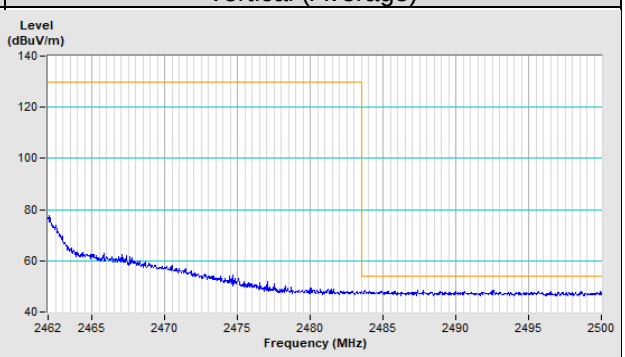
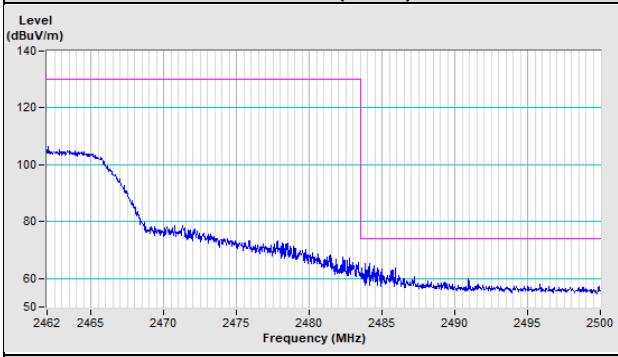
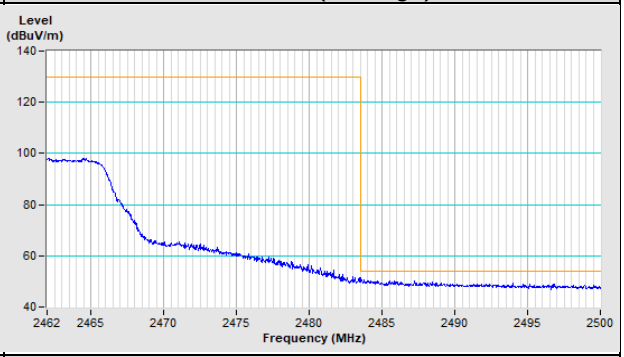
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11n (HT20) Channel 9	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11n (HT20) Channel 10	
Horizontal (Peak)	Horizontal (Average)
	
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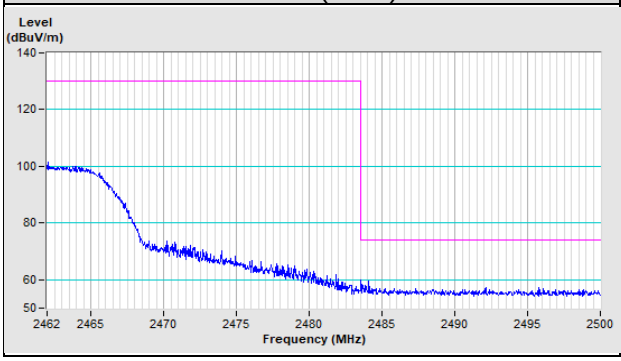
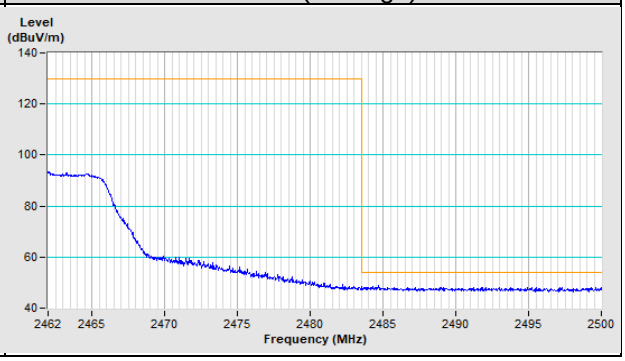
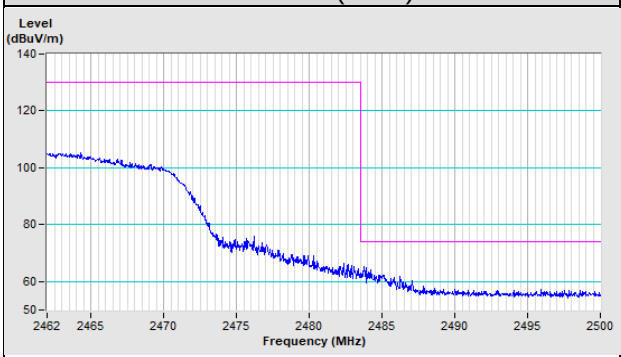
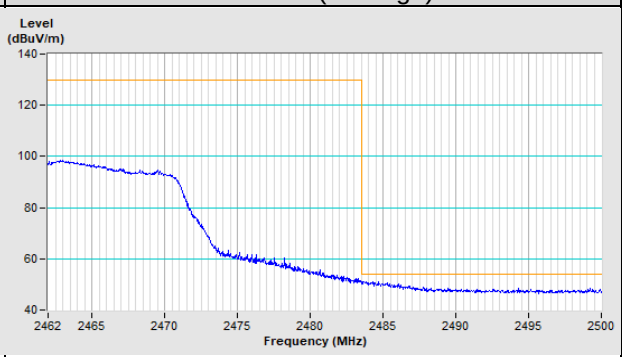
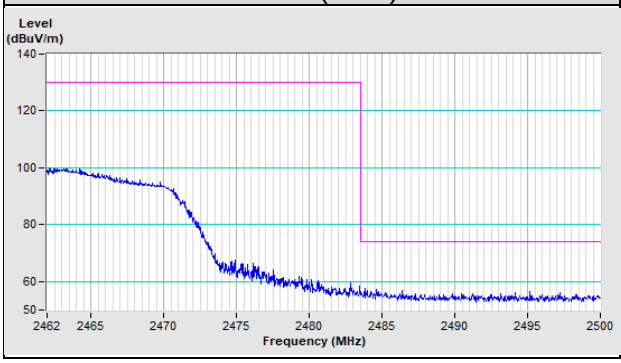
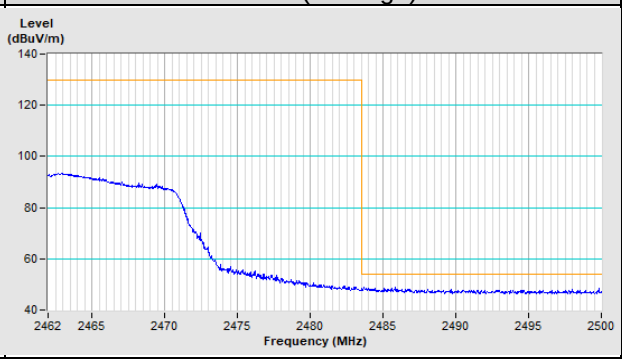
	

802.11n (HT20) Channel 11	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

Appendix – Information of the Testing Laboratories

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

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

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