

FCC Test Report

Report No.: RF190103E03

FCC ID: COF-WMBACBM25

Test Model: WM-BAC-BM-25

Received Date: Jan. 03, 2019

Test Date: Mar. 14 to 15, 2019

Issued Date: Mar. 22, 2019

Applicant: UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

**FCC Registration /
Designation Number:** 723255 / TW2022



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Table of Contents

Release Control Record	4
1 Certificate of Conformity.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information.....	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	9
3.2.1 Test Mode Applicability and Tested Channel Detail	10
3.3 Duty Cycle of Test Signal	12
3.4 Description of Support Units	13
3.4.1 Configuration of System under Test	14
3.5 General Description of Applied Standards	15
4 Test Types and Results	16
4.1 Radiated Emission and Bandedge Measurement.....	16
4.1.1 Limits of Radiated Emission and Bandedge Measurement	16
4.1.2 Test Instruments	17
4.1.3 Test Procedures.....	18
4.1.4 Deviation from Test Standard	19
4.1.5 Test Setup.....	19
4.1.6 EUT Operating Conditions.....	20
4.1.7 Test Results	21
4.2 Conducted Emission Measurement	35
4.2.1 Limits of Conducted Emission Measurement	35
4.2.2 Test Instruments	35
4.2.3 Test Procedures.....	36
4.2.4 Deviation from Test Standard	36
4.2.5 Test Setup.....	36
4.2.6 EUT Operating Conditions.....	36
4.2.7 Test Results	37
4.3 6dB Bandwidth Measurement	39
4.3.1 Limits of 6dB Bandwidth Measurement.....	39
4.3.2 Test Setup.....	39
4.3.3 Test Instruments	39
4.3.4 Test Procedure	39
4.3.5 Deviation from Test Standard	39
4.3.6 EUT Operating Conditions.....	39
4.3.7 Test Result.....	40
4.4 Occupied Bandwidth Measurement	42
4.4.1 Test Setup.....	42
4.4.2 Test Instruments	42
4.4.3 Test Procedure	42
4.4.4 Deviation from Test Standard	42
4.4.5 EUT Operating Conditions.....	42
4.4.6 Test Results	43
4.5 Conducted Output Power Measurement.....	45
4.5.1 Limits of Conducted Output Power Measurement	45
4.5.2 Test Setup.....	45
4.5.3 Test Instruments	45
4.5.4 Test Procedures.....	45
4.5.5 Deviation from Test Standard	45
4.5.6 EUT Operating Conditions.....	45
4.5.7 Test Results	46

4.6	Power Spectral Density Measurement.....	48
4.6.1	Limits of Power Spectral Density Measurement	48
4.6.2	Test Setup.....	48
4.6.3	Test Instruments	48
4.6.4	Test Procedure	48
4.6.5	Deviation from Test Standard	48
4.6.6	EUT Operating Condition	48
4.6.7	Test Results	49
4.7	Conducted Out of Band Emission Measurement.....	51
4.7.1	Limits of Conducted Out of Band Emission Measurement.....	51
4.7.2	Test Setup.....	51
4.7.3	Test Instruments	51
4.7.4	Test Procedure	51
4.7.5	Deviation from Test Standard	51
4.7.6	EUT Operating Condition	51
4.7.7	Test Results	51
5	Pictures of Test Arrangements.....	56
	Appendix – Information on the Testing Laboratories	57

Release Control Record

Issue No.	Description	Date Issued
RF190103E03	Original release.	Mar. 22, 2019

1 Certificate of Conformity

Product: 802.11a/b/g/n/ac + BT 4.1 Module

Brand: USI

Test Model: WM-BAC-BM-25

Sample Status: ENGINEERING SAMPLE

Applicant: UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.

Test Date: Mar. 14 to 15, 2019

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 EMC characteristics under the conditions specified in this report.

Prepared by : Wendy Wu , **Date:** Mar. 22, 2019
Wendy Wu / Specialist

Approved by : May Chen , **Date:** Mar. 22, 2019
May Chen / Manager

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 -21.75dB at 18.24609MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.1dB at 2390.00MHz, 2483.50MHz.
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
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.
-	Occupied Bandwidth Measurement	-	Reference only

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.8 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.1 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11a/b/g/n/ac + BT 4.1 Module
Brand	USI
Test Model	WM-BAC-BM-25
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	DC 3.6V from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.70GHz, 5.745 ~ 5.825GHz
Number of Channel	2.4GHz: 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 24 802.11n (HT40), 802.11ac (VHT40): 11 802.11ac (VHT80): 5
Output Power	2.4GHz: 292.415mW 5GHz: 5.18 ~ 5.24GHz: 92.897mW 5.26 ~ 5.32GHz: 83.368mW 5.50 ~ 5.70GHz: 85.507mW 5.745 ~ 5.825GHz: 181.134mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are WLAN and Bluetooth technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz)	Bluetooth

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

3. The antenna provided to the EUT, please refer to the following table:

Antenna No.	Brand	Model	Ant. Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type
1	YANGO	ANT3216A063R2455A	1.59	2.4~2.4835	Ceramic Chip Antenna	None
			2.23	5.15~5.85		

4. The EUT incorporates a SISO function.

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ac (VHT80)	1TX	1RX

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

7 channels are provided for 802.11n (HT40):

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

NOTE:

- The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane (below 1GHz) & Z-plane (above 1GHz)**.

Radiated Emission Test (Above 1GHz):

- ☒ 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Radiated Emission Test (Below 1GHz):

- ☒ 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Frank Chuang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Frank Chuang
PLC	25deg. C, 68%RH	120Vac, 60Hz	Frank Chuang
APCM	21deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin

3.3 Duty Cycle of Test Signal

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

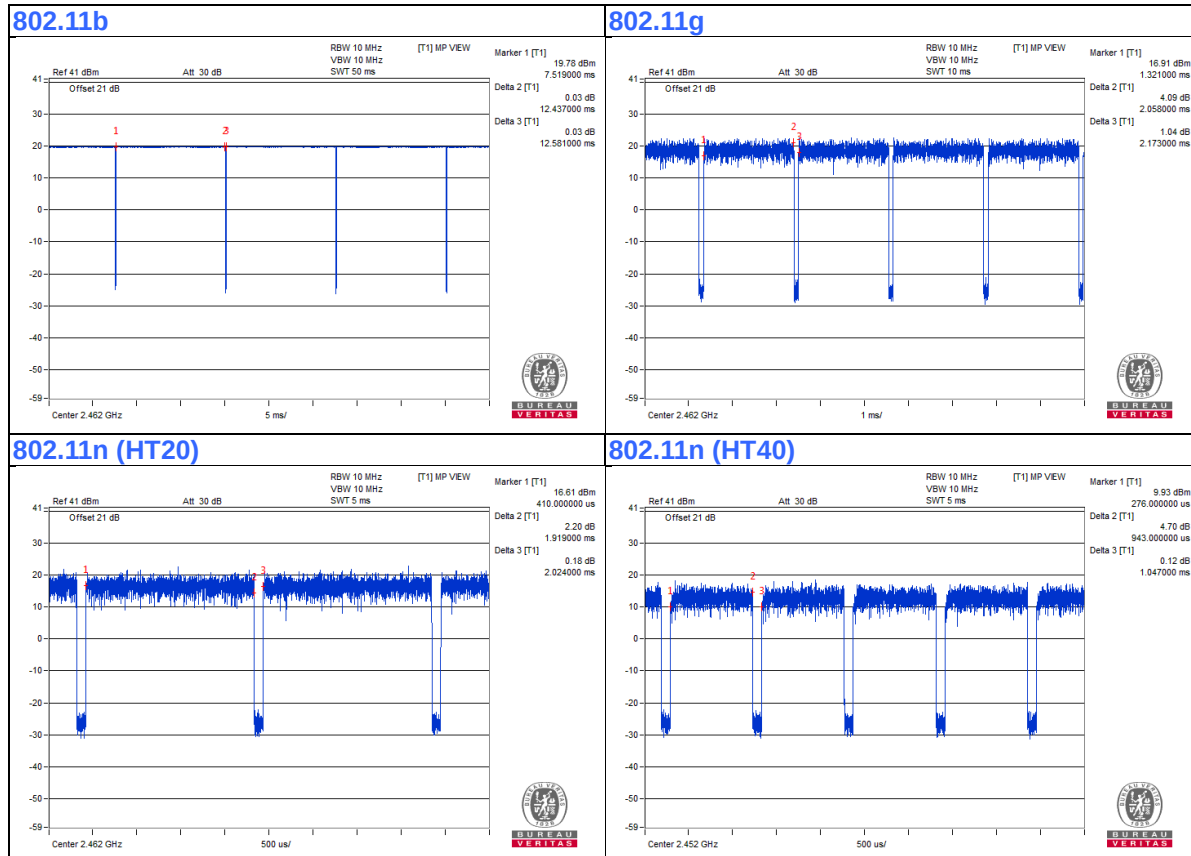
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $12.437/12.581 = 0.989$

802.11g: Duty cycle = $2.058/2.173 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11n (HT20): Duty cycle = $1.919/2.024 = 0.948$, Duty factor = $10 * \log(1/0.948) = 0.23$

802.11n (HT40): Duty cycle = $0.943/1.047 = 0.901$, Duty factor = $10 * \log(1/0.901) = 0.45$



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.	Test Tool	NA	NA	NA	NA	Supplied by client
B.	DC POWER SUPPLY	GOOD WILL INSTRUMENT CO., LTD	GPC-3030D	E847076	NA	Provided by Lab

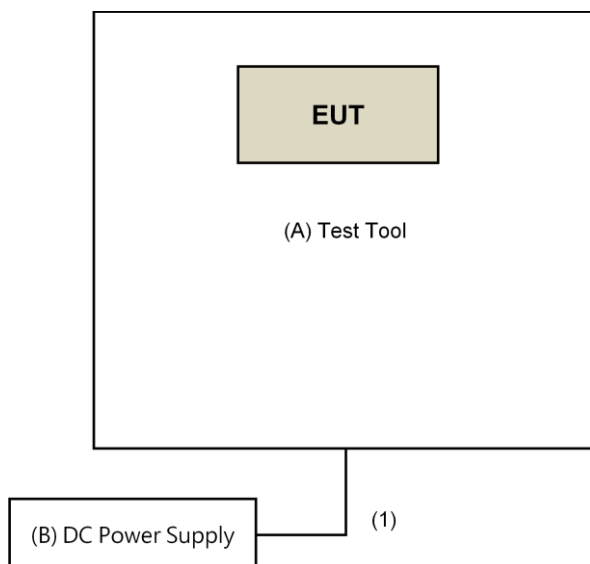
Note:

1. All power cords of the above support units are non-shielded (1.8m).

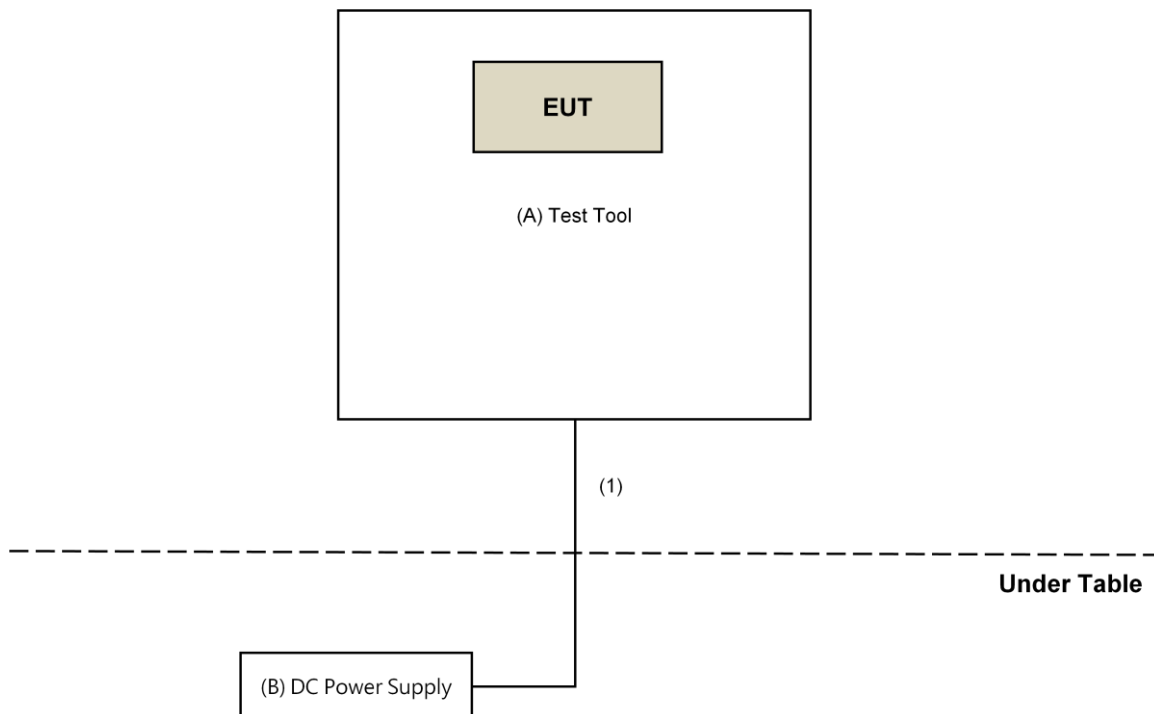
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	0	Provided by Lab

3.4.1 Configuration of System under Test

For Conducted Emissions test:



For other test:



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.247)

KDB 558074 D01 15.247 Meas Guidance v05r01

ANSI C63.10-2013

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

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 20dB 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 1000MHz, 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 20dB under any condition of modulation.

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010156	July 12, 2018	July 11, 2019
Pre-Amplifier EMCI	EMC001340	980142	Jan. 25, 2019	Jan. 24, 2020
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	May 05, 2018	May 04, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-3-1	Mar. 20, 2018	Mar. 19, 2019
RF Cable	8D	966-3-2	Mar. 20, 2018	Mar. 19, 2019
RF Cable	8D	966-3-3	Mar. 20, 2018	Mar. 19, 2019
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 27, 2018	Sep. 26, 2019
Horn Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-1200	160922	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-2000	180601	June 12, 2018	June 11, 2019
RF Cable	EMC104-SM-SM-6000	180602	June 12, 2018	June 11, 2019
Spectrum Analyzer Keysight	N9030A	MY54490679	July 23, 2018	July 22, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Spectrum Analyzer R&S	FSV40	100964	June 20, 2018	June 19, 2019
Power meter Anritsu	ML2495A	1014008	May 09, 2018	May 08, 2019
Power sensor Anritsu	MA2411B	0917122	May 09, 2018	May 08, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019

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 966 Chamber No. 3.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Mar. 14 to 15, 2019

4.1.3 Test Procedures

For Radiated emission below 30MHz

- 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 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

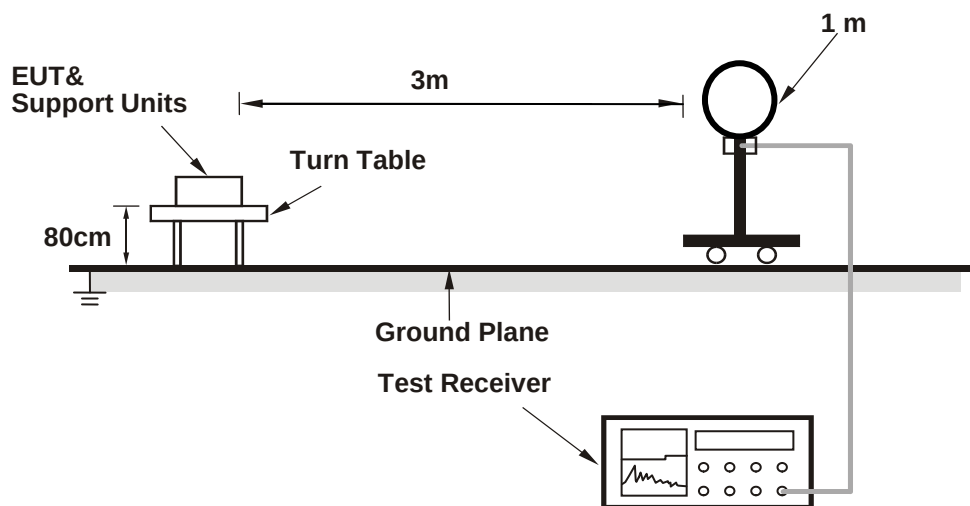
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

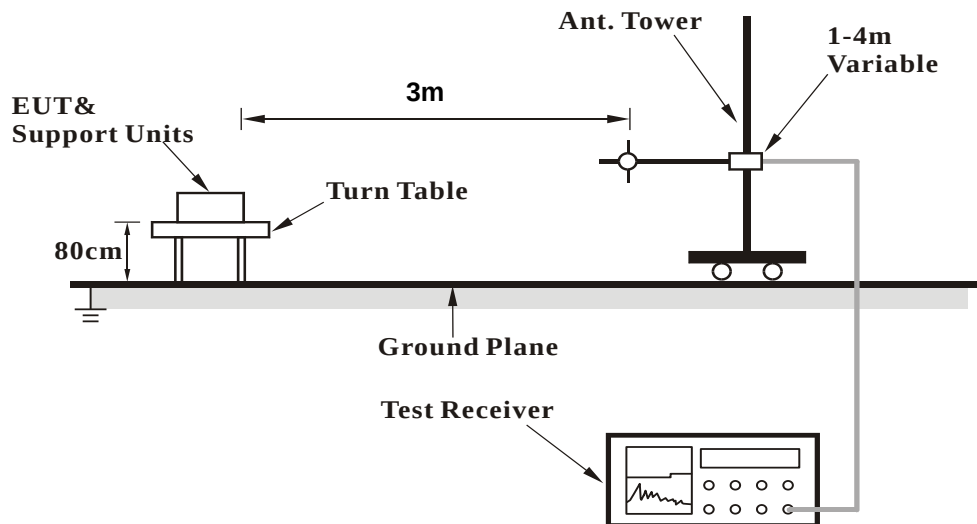
No deviation.

4.1.5 Test Setup

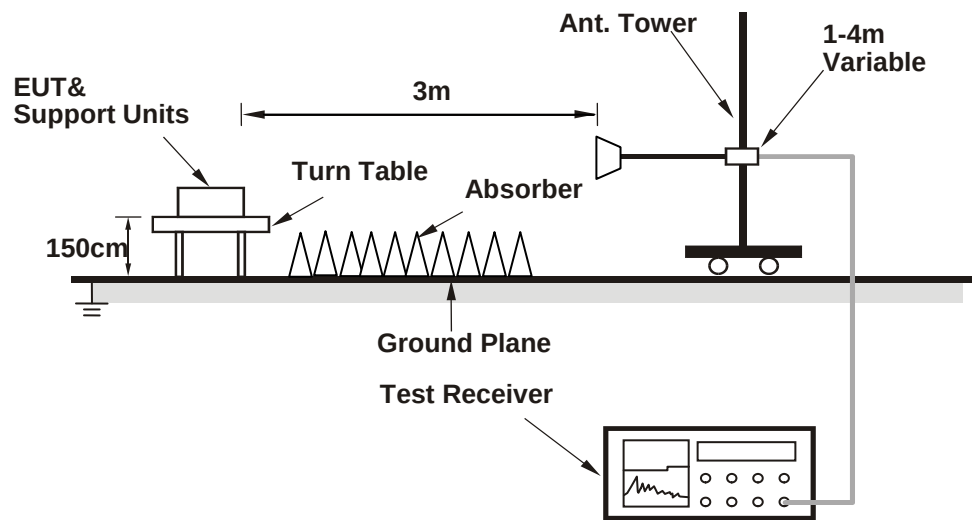
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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 the testing table.
- b. Controlling software (sh use Test scripts.sh) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz Data:

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	1.28 H	162	58.5	-2.1
2	2390.00	46.2 AV	54.0	-7.8	1.28 H	162	48.3	-2.1
3	*2412.00	97.5 PK			1.28 H	162	99.6	-2.1
4	*2412.00	94.8 AV			1.28 H	162	96.9	-2.1
5	4824.00	42.0 PK	74.0	-32.0	1.09 H	146	39.9	2.1
6	4824.00	41.1 AV	54.0	-12.9	1.09 H	146	39.0	2.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.1 PK	74.0	-13.9	1.55 V	198	62.2	-2.1
2	2390.00	52.9 AV	54.0	-1.1	1.55 V	198	55.0	-2.1
3	*2412.00	107.3 PK			1.55 V	198	109.4	-2.1
4	*2412.00	104.7 AV			1.55 V	198	106.8	-2.1
5	4824.00	40.8 PK	74.0	-33.2	2.23 V	111	38.7	2.1
6	4824.00	40.0 AV	54.0	-14.0	2.23 V	111	37.9	2.1

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	1.28 H	163	59.3	-2.1
2	2390.00	41.2 AV	54.0	-12.8	1.28 H	163	43.3	-2.1
3	*2437.00	100.5 PK			1.28 H	163	102.8	-2.3
4	*2437.00	98.3 AV			1.28 H	163	100.6	-2.3
5	2483.50	58.6 PK	74.0	-15.4	1.28 H	163	61.0	-2.4
6	2483.50	42.3 AV	54.0	-11.7	1.28 H	163	44.7	-2.4
7	4874.00	46.2 PK	74.0	-27.8	1.05 H	142	44.1	2.1
8	4874.00	43.6 AV	54.0	-10.4	1.05 H	142	41.5	2.1
9	7311.00	43.0 PK	74.0	-31.0	2.32 H	202	35.0	8.0
10	7311.00	32.4 AV	54.0	-21.6	2.32 H	202	24.4	8.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.1 PK	74.0	-18.9	1.47 V	197	57.2	-2.1
2	2390.00	43.8 AV	54.0	-10.2	1.47 V	197	45.9	-2.1
3	*2437.00	109.6 PK			1.47 V	197	111.9	-2.3
4	*2437.00	107.2 AV			1.47 V	197	109.5	-2.3
5	2483.50	55.1 PK	74.0	-18.9	1.47 V	197	57.5	-2.4
6	2483.50	43.2 AV	54.0	-10.8	1.47 V	197	45.6	-2.4
7	4874.00	44.5 PK	74.0	-29.5	2.15 V	110	42.4	2.1
8	4874.00	42.1 AV	54.0	-11.9	2.15 V	110	40.0	2.1
9	7311.00	42.8 PK	74.0	-31.2	1.21 V	176	34.8	8.0
10	7311.00	32.5 AV	54.0	-21.5	1.21 V	176	24.5	8.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	97.8 PK			1.34 H	166	100.1	-2.3
2	*2462.00	95.0 AV			1.34 H	166	97.3	-2.3
3	2483.50	55.9 PK	74.0	-18.1	1.34 H	166	58.3	-2.4
4	2483.50	45.8 AV	54.0	-8.2	1.34 H	166	48.2	-2.4
5	4924.00	41.2 PK	74.0	-32.8	1.09 H	146	38.9	2.3
6	4924.00	40.6 AV	54.0	-13.4	1.09 H	146	38.3	2.3
7	7386.00	42.9 PK	74.0	-31.1	2.37 H	200	34.8	8.1
8	7386.00	32.2 AV	54.0	-21.8	2.37 H	200	24.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			2.51 V	200	109.1	-2.3
2	*2462.00	104.3 AV			2.51 V	200	106.6	-2.3
3	2483.50	59.5 PK	74.0	-14.5	2.51 V	200	61.9	-2.4
4	2483.50	52.8 AV	54.0	-1.2	2.51 V	200	55.2	-2.4
5	4924.00	40.6 PK	74.0	-33.4	2.19 V	95	38.3	2.3
6	4924.00	39.6 AV	54.0	-14.4	2.19 V	95	37.3	2.3
7	7386.00	43.2 PK	74.0	-30.8	1.25 V	170	35.1	8.1
8	7386.00	32.9 AV	54.0	-21.1	1.25 V	170	24.8	8.1

REMARKS:

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	57.7 PK	74.0	-16.3	1.35 H	166	59.8	-2.1
2	2390.00	46.0 AV	54.0	-8.0	1.35 H	166	48.1	-2.1
3	*2412.00	100.4 PK			1.35 H	166	102.5	-2.1
4	*2412.00	90.7 AV			1.35 H	166	92.8	-2.1
5	4824.00	40.7 PK	74.0	-33.3	1.05 H	146	38.6	2.1
6	4824.00	29.7 AV	54.0	-24.3	1.05 H	146	27.6	2.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	70.7 PK	74.0	-3.3	1.50 V	200	72.8	-2.1
2	2390.00	52.9 AV	54.0	-1.1	1.50 V	200	55.0	-2.1
3	*2412.00	109.6 PK			1.50 V	200	111.7	-2.1
4	*2412.00	100.0 AV			1.50 V	200	102.1	-2.1
5	4824.00	40.4 PK	74.0	-33.6	2.17 V	124	38.3	2.1
6	4824.00	31.5 AV	54.0	-22.5	2.17 V	124	29.4	2.1

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.32 H	155	59.0	-2.1
2	2390.00	40.7 AV	54.0	-13.3	1.32 H	155	42.8	-2.1
3	*2437.00	104.8 PK			1.32 H	155	107.1	-2.3
4	*2437.00	95.2 AV			1.32 H	155	97.5	-2.3
5	2483.50	57.7 PK	74.0	-16.3	1.32 H	155	60.1	-2.4
6	2483.50	41.5 AV	54.0	-12.5	1.32 H	155	43.9	-2.4
7	4874.00	41.1 PK	74.0	-32.9	1.14 H	162	39.0	2.1
8	4874.00	30.1 AV	54.0	-23.9	1.14 H	162	28.0	2.1
9	7311.00	43.3 PK	74.0	-30.7	2.29 H	187	35.3	8.0
10	7311.00	33.1 AV	54.0	-20.9	2.29 H	187	25.1	8.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	61.1 PK	74.0	-12.9	1.50 V	200	63.2	-2.1
2	2390.00	47.9 AV	54.0	-6.1	1.50 V	200	50.0	-2.1
3	*2437.00	113.9 PK			1.50 V	200	116.2	-2.3
4	*2437.00	104.3 AV			1.50 V	200	106.6	-2.3
5	2483.50	59.2 PK	74.0	-14.8	1.50 V	200	61.6	-2.4
6	2483.50	46.7 AV	54.0	-7.3	1.50 V	200	49.1	-2.4
7	4874.00	46.5 PK	74.0	-27.5	2.15 V	125	44.4	2.1
8	4874.00	36.6 AV	54.0	-17.4	2.15 V	125	34.5	2.1
9	7311.00	42.6 PK	74.0	-31.4	1.24 V	165	34.6	8.0
10	7311.00	32.6 AV	54.0	-21.4	1.24 V	165	24.6	8.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	100.3 PK			1.38 H	167	102.6	-2.3
2	*2462.00	90.7 AV			1.38 H	167	93.0	-2.3
3	2483.50	57.4 PK	74.0	-16.6	1.38 H	167	59.8	-2.4
4	2483.50	45.6 AV	54.0	-8.4	1.38 H	167	48.0	-2.4
5	4924.00	39.7 PK	74.0	-34.3	1.15 H	158	37.4	2.3
6	4924.00	28.8 AV	54.0	-25.2	1.15 H	158	26.5	2.3
7	7386.00	42.9 PK	74.0	-31.1	2.38 H	211	34.8	8.1
8	7386.00	33.1 AV	54.0	-20.9	2.38 H	211	25.0	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.7 PK			1.21 V	200	112.0	-2.3
2	*2462.00	100.1 AV			1.21 V	200	102.4	-2.3
3	2483.50	70.9 PK	74.0	-3.1	1.21 V	200	73.3	-2.4
4	2483.50	52.9 AV	54.0	-1.1	1.21 V	200	55.3	-2.4
5	4924.00	43.2 PK	74.0	-30.8	2.15 V	137	40.9	2.3
6	4924.00	33.4 AV	54.0	-20.6	2.15 V	137	31.1	2.3
7	7386.00	42.7 PK	74.0	-31.3	1.26 V	150	34.6	8.1
8	7386.00	33.0 AV	54.0	-21.0	1.26 V	150	24.9	8.1

REMARKS:

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.34 H	174	59.4	-2.1
2	2390.00	45.6 AV	54.0	-8.4	1.34 H	174	47.7	-2.1
3	*2412.00	100.3 PK			1.34 H	174	102.4	-2.1
4	*2412.00	90.6 AV			1.34 H	174	92.7	-2.1
5	4824.00	40.3 PK	74.0	-33.7	1.05 H	148	38.2	2.1
6	4824.00	29.3 AV	54.0	-24.7	1.05 H	148	27.2	2.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	70.0 PK	74.0	-4.0	1.50 V	199	72.1	-2.1
2	2390.00	52.7 AV	54.0	-1.3	1.50 V	199	54.8	-2.1
3	*2412.00	109.3 PK			1.50 V	199	111.4	-2.1
4	*2412.00	100.1 AV			1.50 V	199	102.2	-2.1
5	4824.00	40.1 PK	74.0	-33.9	2.13 V	131	38.0	2.1
6	4824.00	31.0 AV	54.0	-23.0	2.13 V	131	28.9	2.1

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.36 H	171	59.4	-2.1
2	2390.00	41.1 AV	54.0	-12.9	1.36 H	171	43.2	-2.1
3	*2437.00	103.4 PK			1.36 H	171	105.7	-2.3
4	*2437.00	94.5 AV			1.36 H	171	96.8	-2.3
5	2483.50	58.2 PK	74.0	-15.8	1.36 H	171	60.6	-2.4
6	2483.50	41.8 AV	54.0	-12.2	1.36 H	171	44.2	-2.4
7	4874.00	41.5 PK	74.0	-32.5	1.13 H	157	39.4	2.1
8	4874.00	30.4 AV	54.0	-23.6	1.13 H	157	28.3	2.1
9	7311.00	43.1 PK	74.0	-30.9	2.33 H	198	35.1	8.0
10	7311.00	33.2 AV	54.0	-20.8	2.33 H	198	25.2	8.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	66.5 PK	74.0	-7.5	1.50 V	199	68.6	-2.1
2	2390.00	49.7 AV	54.0	-4.3	1.50 V	199	51.8	-2.1
3	*2437.00	112.4 PK			1.50 V	199	114.7	-2.3
4	*2437.00	103.0 AV			1.50 V	199	105.3	-2.3
5	2483.50	61.3 PK	74.0	-12.7	1.50 V	199	63.7	-2.4
6	2483.50	47.8 AV	54.0	-6.2	1.50 V	199	50.2	-2.4
7	4874.00	46.6 PK	74.0	-27.4	2.18 V	120	44.5	2.1
8	4874.00	36.8 AV	54.0	-17.2	2.18 V	120	34.7	2.1
9	7311.00	42.6 PK	74.0	-31.4	1.24 V	158	34.6	8.0
10	7311.00	32.3 AV	54.0	-21.7	1.24 V	158	24.3	8.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	99.8 PK			1.28 H	172	102.1	-2.3
2	*2462.00	90.3 AV			1.28 H	172	92.6	-2.3
3	2483.50	57.2 PK	74.0	-16.8	1.28 H	172	59.6	-2.4
4	2483.50	45.7 AV	54.0	-8.3	1.28 H	172	48.1	-2.4
5	4924.00	40.2 PK	74.0	-33.8	1.16 H	165	37.9	2.3
6	4924.00	29.0 AV	54.0	-25.0	1.16 H	165	26.7	2.3
7	7386.00	43.2 PK	74.0	-30.8	2.37 H	196	35.1	8.1
8	7386.00	33.1 AV	54.0	-20.9	2.37 H	196	25.0	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.5 PK			1.19 V	199	110.8	-2.3
2	*2462.00	99.2 AV			1.19 V	199	101.5	-2.3
3	2483.50	71.6 PK	74.0	-2.4	1.19 V	199	74.0	-2.4
4	2483.50	52.9 AV	54.0	-1.1	1.19 V	199	55.3	-2.4
5	4924.00	43.0 PK	74.0	-31.0	2.11 V	151	40.7	2.3
6	4924.00	33.4 AV	54.0	-20.6	2.11 V	151	31.1	2.3
7	7386.00	42.8 PK	74.0	-31.2	1.31 V	137	34.7	8.1
8	7386.00	32.9 AV	54.0	-21.1	1.31 V	137	24.8	8.1

REMARKS:

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

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	1.28 H	153	59.3	-2.1
2	2390.00	45.7 AV	54.0	-8.3	1.28 H	153	47.8	-2.1
3	*2422.00	93.5 PK			1.28 H	153	95.7	-2.2
4	*2422.00	84.1 AV			1.28 H	153	86.3	-2.2
5	4844.00	40.2 PK	74.0	-33.8	1.07 H	150	38.1	2.1
6	4844.00	29.1 AV	54.0	-24.9	1.07 H	150	27.0	2.1
7	7266.00	42.7 PK	74.0	-31.3	2.33 H	186	34.5	8.2
8	7266.00	32.7 AV	54.0	-21.3	2.33 H	186	24.5	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	66.6 PK	74.0	-7.4	1.50 V	200	68.7	-2.1
2	2390.00	52.8 AV	54.0	-1.2	1.50 V	200	54.9	-2.1
3	*2422.00	102.1 PK			1.50 V	200	104.3	-2.2
4	*2422.00	93.4 AV			1.50 V	200	95.6	-2.2
5	4844.00	40.2 PK	74.0	-33.8	2.13 V	135	38.1	2.1
6	4844.00	29.2 AV	54.0	-24.8	2.13 V	135	27.1	2.1
7	7266.00	42.8 PK	74.0	-31.2	1.28 V	155	34.6	8.2
8	7266.00	32.9 AV	54.0	-21.1	1.28 V	155	24.7	8.2

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.35 H	157	59.4	-2.1
2	2390.00	45.5 AV	54.0	-8.5	1.35 H	157	47.6	-2.1
3	*2437.00	96.5 PK			1.35 H	157	98.8	-2.3
4	*2437.00	87.4 AV			1.35 H	157	89.7	-2.3
5	2483.50	57.6 PK	74.0	-16.4	1.35 H	157	60.0	-2.4
6	2483.50	41.4 AV	54.0	-12.6	1.35 H	157	43.8	-2.4
7	4874.00	40.3 PK	74.0	-33.7	1.02 H	151	38.2	2.1
8	4874.00	29.2 AV	54.0	-24.8	1.02 H	151	27.1	2.1
9	7311.00	42.0 PK	74.0	-32.0	2.35 H	187	34.0	8.0
10	7311.00	32.1 AV	54.0	-21.9	2.35 H	187	24.1	8.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.50 V	200	69.5	-2.1
2	2390.00	52.9 AV	54.0	-1.1	1.50 V	200	55.0	-2.1
3	*2437.00	105.1 PK			1.50 V	200	107.4	-2.3
4	*2437.00	96.3 AV			1.50 V	200	98.6	-2.3
5	2483.50	64.7 PK	74.0	-9.3	1.50 V	200	67.1	-2.4
6	2483.50	48.1 AV	54.0	-5.9	1.50 V	200	50.5	-2.4
7	4874.00	40.5 PK	74.0	-33.5	2.12 V	130	38.4	2.1
8	4874.00	29.4 AV	54.0	-24.6	2.12 V	130	27.3	2.1
9	7311.00	42.7 PK	74.0	-31.3	1.22 V	150	34.7	8.0
10	7311.00	32.6 AV	54.0	-21.4	1.22 V	150	24.6	8.0

REMARKS:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	93.3 PK			1.35 H	173	95.6	-2.3
2	*2452.00	83.8 AV			1.35 H	173	86.1	-2.3
3	2483.50	57.8 PK	74.0	-16.2	1.35 H	173	60.2	-2.4
4	2483.50	46.1 AV	54.0	-7.9	1.35 H	173	48.5	-2.4
5	4904.00	39.9 PK	74.0	-34.1	1.05 H	159	37.7	2.2
6	4904.00	28.9 AV	54.0	-25.1	1.05 H	159	26.7	2.2
7	7356.00	42.3 PK	74.0	-31.7	2.32 H	198	34.2	8.1
8	7356.00	32.2 AV	54.0	-21.8	2.32 H	198	24.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	103.4 PK			1.51 V	200	105.7	-2.3
2	*2452.00	94.0 AV			1.51 V	200	96.3	-2.3
3	2483.50	72.7 PK	74.0	-1.3	1.51 V	200	75.1	-2.4
4	2483.50	52.7 AV	54.0	-1.3	1.51 V	200	55.1	-2.4
5	4904.00	40.4 PK	74.0	-33.6	2.07 V	135	38.2	2.2
6	4904.00	29.2 AV	54.0	-24.8	2.07 V	135	27.0	2.2
7	7356.00	42.1 PK	74.0	-31.9	1.19 V	159	34.0	8.1
8	7356.00	32.1 AV	54.0	-21.9	1.19 V	159	24.0	8.1

REMARKS:

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

Below 1GHz Data:

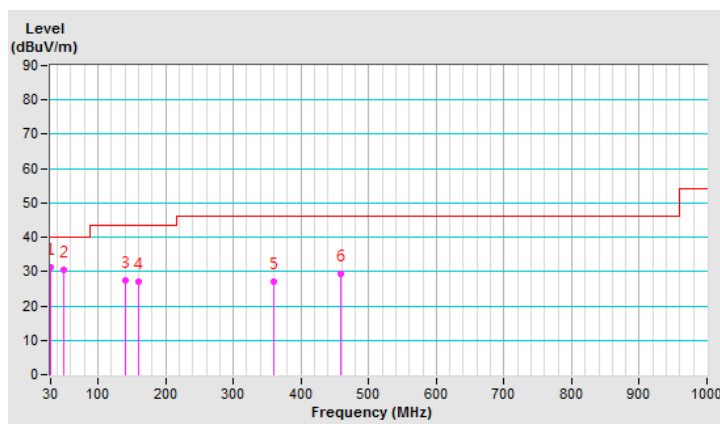
802.11g

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.02	31.2 QP	40.0	-8.8	1.00 H	360	40.9	-9.7
2	50.30	30.4 QP	40.0	-9.6	3.00 H	189	39.2	-8.8
3	141.19	27.5 QP	43.5	-16.0	1.50 H	242	36.0	-8.5
4	160.13	27.2 QP	43.5	-16.3	1.50 H	311	35.8	-8.6
5	360.36	27.2 QP	46.0	-18.8	1.00 H	360	32.8	-5.6
6	459.54	29.5 QP	46.0	-16.5	3.00 H	2	32.8	-3.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The 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.

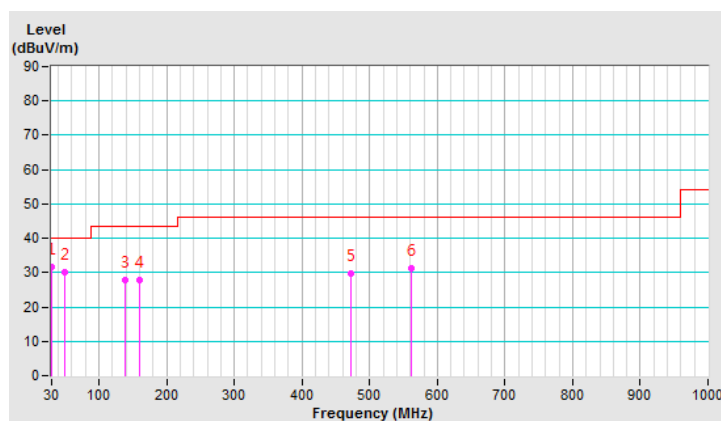


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.22	31.7 QP	40.0	-8.3	1.50 V	350	41.4	-9.7
2	49.13	30.2 QP	40.0	-9.8	3.00 V	1	39.1	-8.9
3	138.83	27.9 QP	43.5	-15.6	1.50 V	1	36.5	-8.6
4	159.28	27.8 QP	43.5	-15.7	2.50 V	113	36.1	-8.3
5	473.00	29.7 QP	46.0	-16.3	1.00 V	249	32.6	-2.9
6	562.29	31.2 QP	46.0	-14.8	1.00 V	164	32.3	-1.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The 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 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 04, 2018	June 03, 2019
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 16, 2018	Mar. 15, 2019
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Mar. 15, 2019

4.2.3 Test Procedures

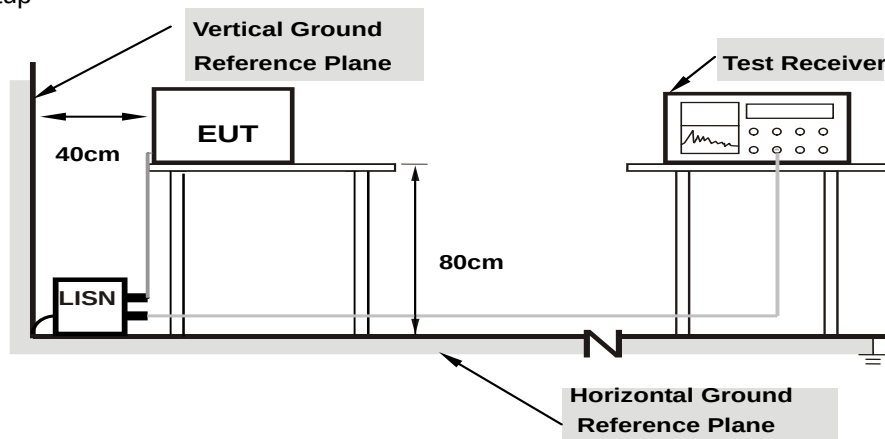
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

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

Same as 4.1.6.

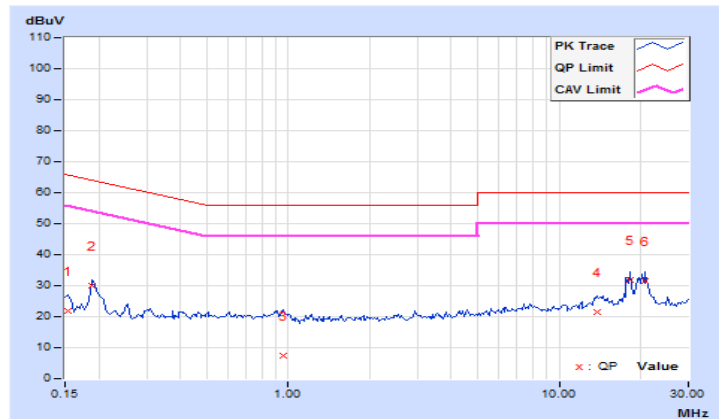
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.02	11.78	7.02	21.80	17.04	65.79	55.79	-43.99	-38.75
2	0.18906	10.04	19.93	10.69	29.97	20.73	64.08	54.08	-34.11	-33.35
3	0.95859	10.11	-2.80	-7.65	7.31	2.46	56.00	46.00	-48.69	-43.54
4	13.87109	10.74	10.61	4.94	21.35	15.68	60.00	50.00	-38.65	-34.32
5	18.24609	10.98	20.79	17.27	31.77	28.25	60.00	50.00	-28.23	-21.75
6	20.86328	11.08	20.24	12.53	31.32	23.61	60.00	50.00	-28.68	-26.39

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.

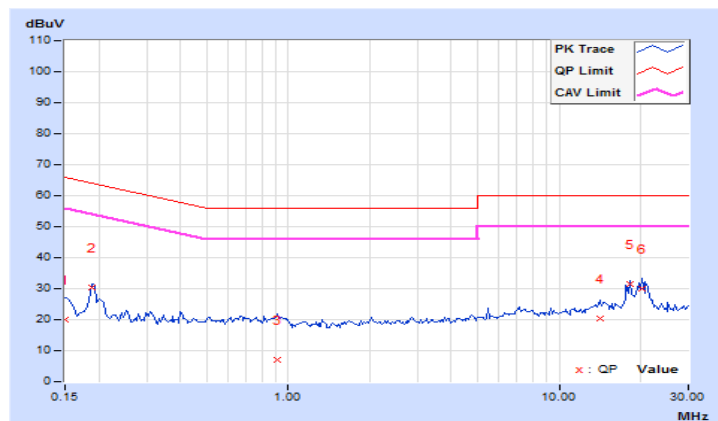


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.93	10.04	3.09	19.97	13.02	66.00	56.00	-46.03	-42.98
2	0.18906	9.94	20.40	10.93	30.34	20.87	64.08	54.08	-33.74	-33.21
3	0.91563	9.99	-3.02	-10.00	6.97	-0.01	56.00	46.00	-49.03	-46.01
4	14.09766	10.58	9.90	3.27	20.48	13.85	60.00	50.00	-39.52	-36.15
5	18.24609	10.78	20.79	17.21	31.57	27.99	60.00	50.00	-28.43	-22.01
6	20.26172	10.87	19.27	14.48	30.14	25.35	60.00	50.00	-29.86	-24.65

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.

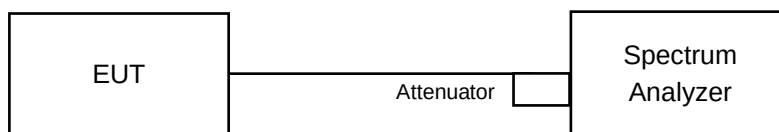


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB 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

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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 Result

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	9.05	0.5	PASS
6	2437	9.02	0.5	PASS
11	2462	8.58	0.5	PASS

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.33	0.5	PASS
6	2437	15.29	0.5	PASS
11	2462	16.09	0.5	PASS

802.11n (HT20)

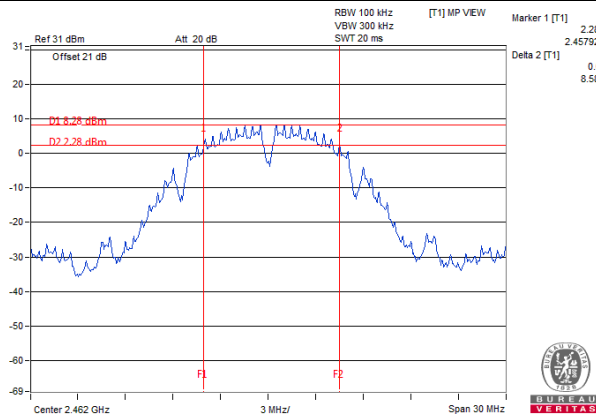
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.34	0.5	Pass
6	2437	15.26	0.5	Pass
11	2462	17.18	0.5	Pass

802.11n (HT40)

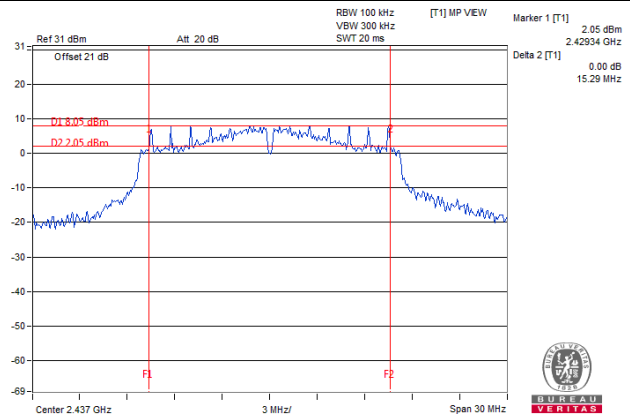
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.66	0.5	Pass
6	2437	35.93	0.5	Pass
9	2452	35.72	0.5	Pass

Spectrum Plot of Worst Value

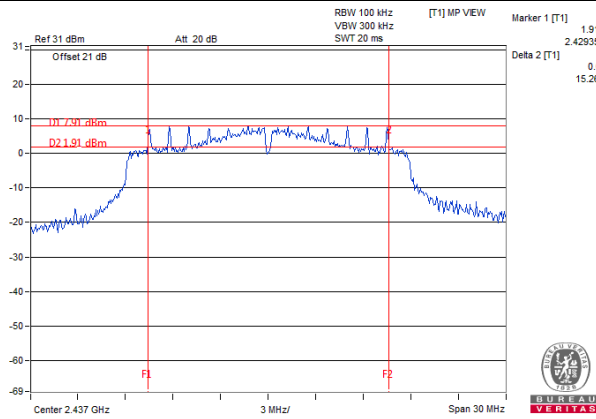
802.11b: CH11



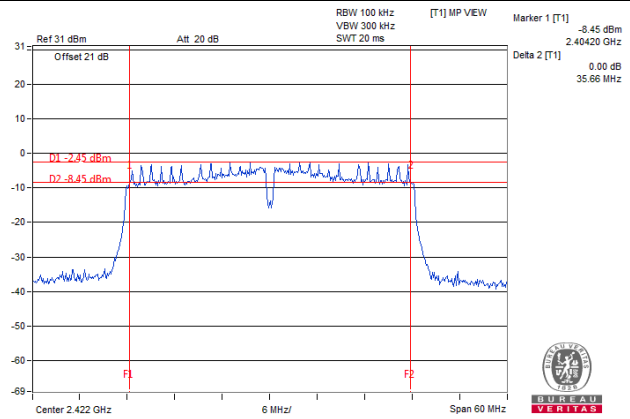
802.11g: CH6



802.11n (HT20): CH6

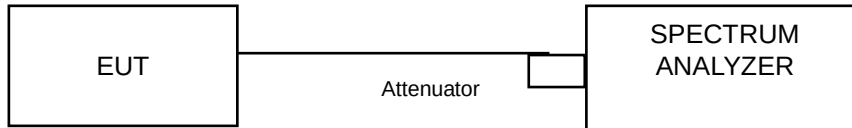


802.11n (HT40): CH3



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

802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	2412	12.12
6	2437	12.72
11	2462	12.24

802.11g

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	2412	16.80
6	2437	17.64
11	2462	16.92

802.11n (HT20)

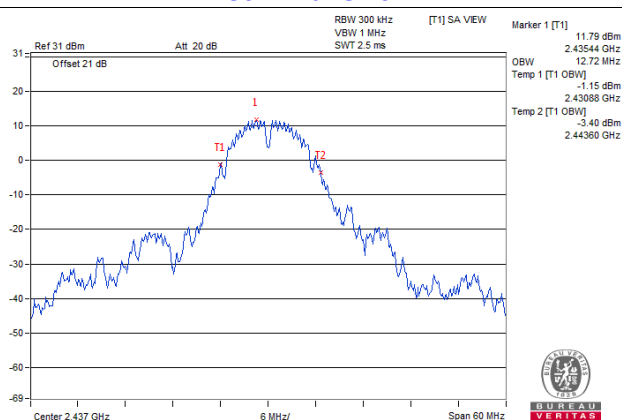
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	2412	17.88
6	2437	18.24
11	2462	17.88

802.11n (HT40)

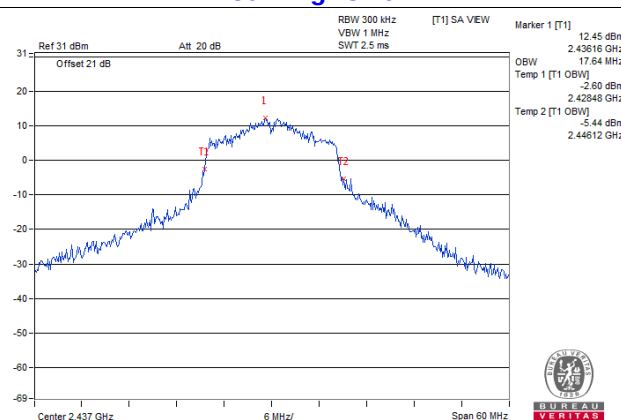
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
3	2422	36.48
6	2437	36.48
9	2452	36.48

Spectrum Plot of Worst Value

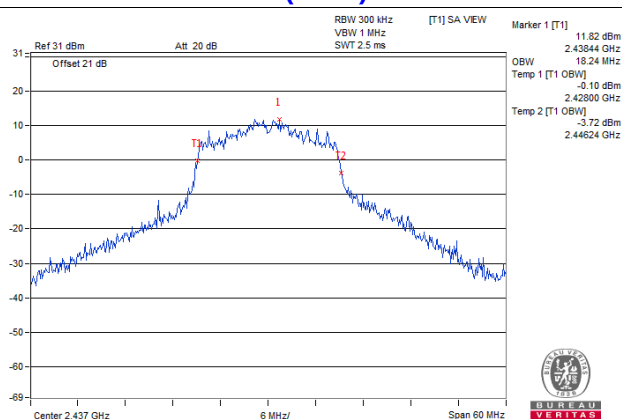
802.11b: CH6



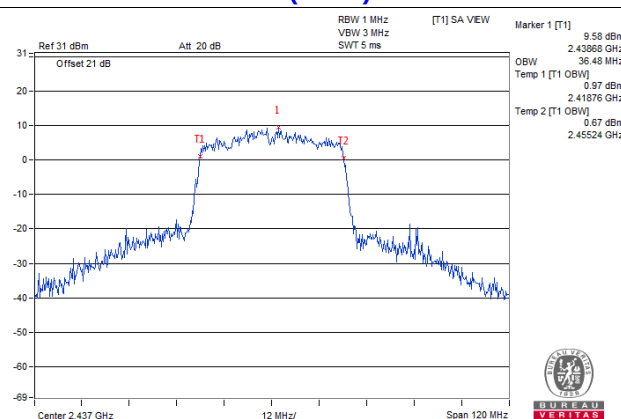
802.11g: CH6



802.11n (HT20): CH6



802.11n (HT40): CH3

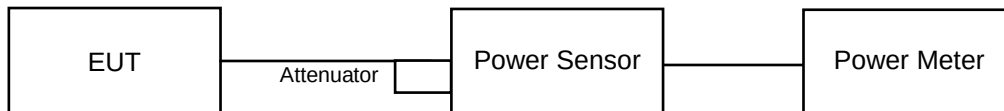


4.5 Conducted Output Power Measurement

4.5.1 Limits of Conducted Output Power Measurement

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

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

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

Average power 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

Same as Item 4.3.6.

4.5.7 Test Results

FOR PEAK POWER

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	104.954	20.21	30.00	Pass
6	2437	211.349	23.25	30.00	Pass
11	2462	109.144	20.38	30.00	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	206.063	23.14	30.00	Pass
6	2437	292.415	24.66	30.00	Pass
11	2462	247.742	23.94	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	210.378	23.23	30.00	Pass
6	2437	282.488	24.51	30.00	Pass
11	2462	226.464	23.55	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
3	2422	104.954	20.21	30.00	Pass
6	2437	215.774	23.34	30.00	Pass
9	2452	188.799	22.76	30.00	Pass

FOR AVERAGE POWER

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	52.845	17.23
6	2437	111.173	20.46
11	2462	56.105	17.49

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	31.769	15.02
6	2437	94.406	19.75
11	2462	46.132	16.64

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	31.696	15.01
6	2437	88.308	19.46
11	2462	36.058	15.57

802.11n (HT40)

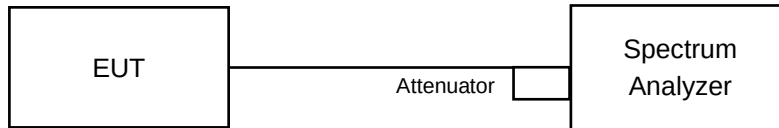
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	14.859	11.72
6	2437	32.81	15.16
9	2452	25.882	14.13

4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

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

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

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as Item 4.3.6

4.6.7 Test Results

802.11b

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-5.67	8	Pass
6	2437	-3.53	8	Pass
11	2462	-5.14	8	Pass

802.11g

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-8.40	8	Pass
6	2437	-4.02	8	Pass
11	2462	-8.31	8	Pass

802.11n (HT20)

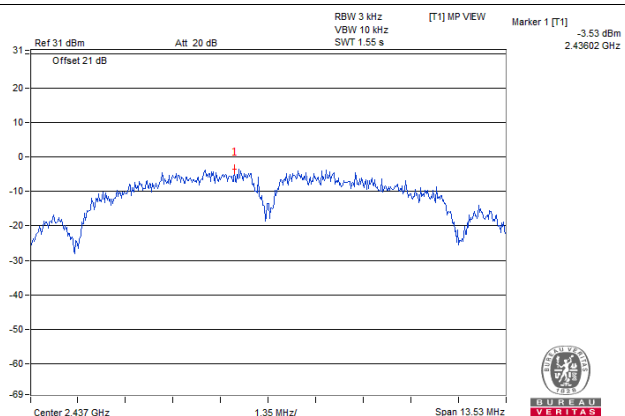
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-9.50	8	Pass
6	2437	-5.35	8	Pass
11	2462	-9.40	8	Pass

802.11n (HT40)

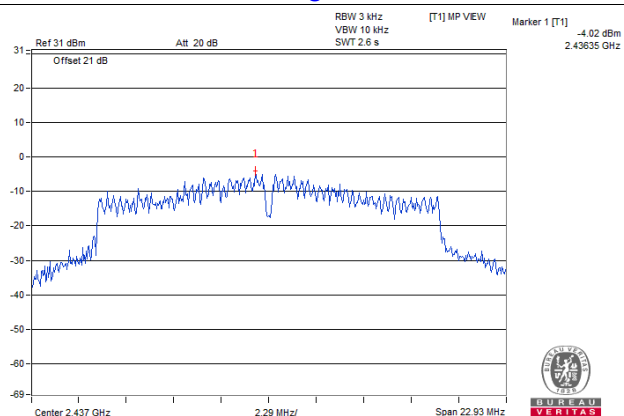
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-16.01	8	Pass
6	2437	-11.66	8	Pass
9	2452	-12.40	8	Pass

Spectrum Plot of Worst Value

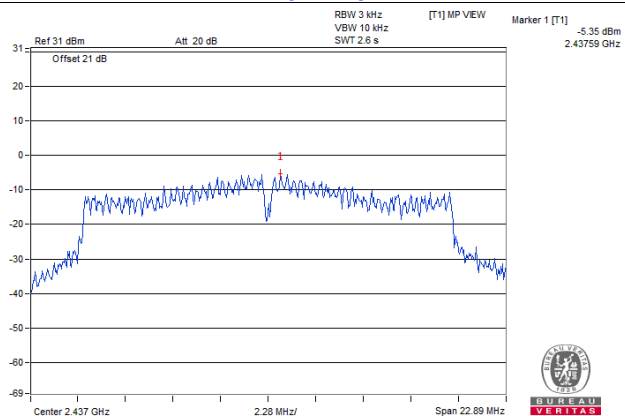
802.11b: CH6



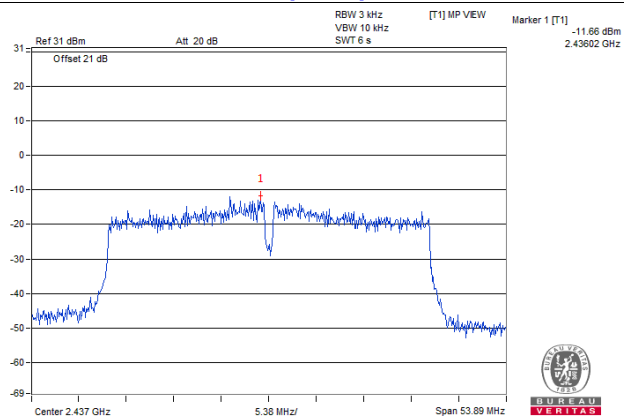
802.11g: CH6



802.11n (HT20): CH6



802.11n (HT40): CH6

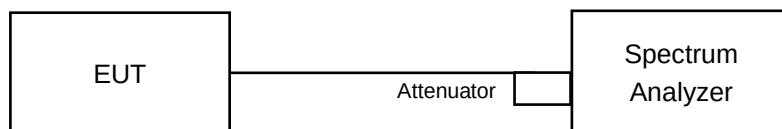


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

Below -20dB of the highest emission level of operating band (in 100kHz 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 $\geq$ 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 OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 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

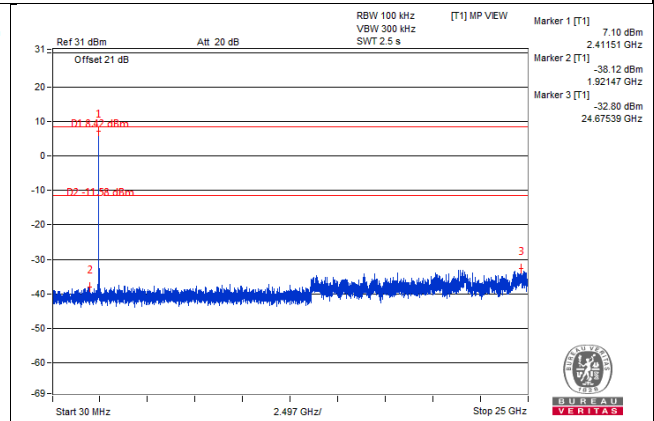
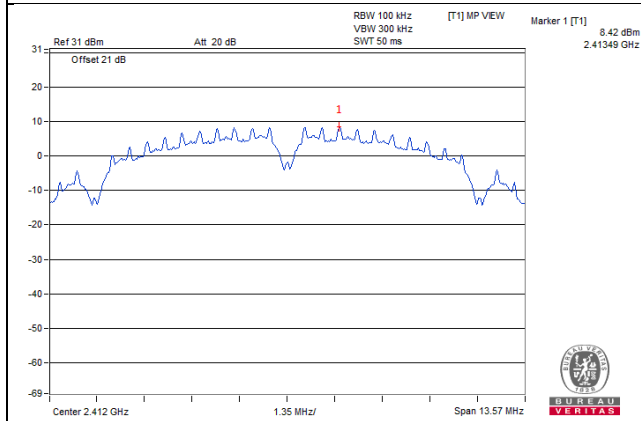
Same as Item 4.3.6

4.7.7 Test Results

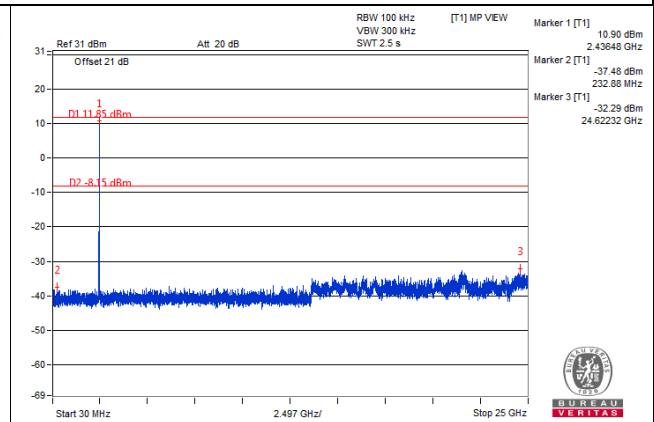
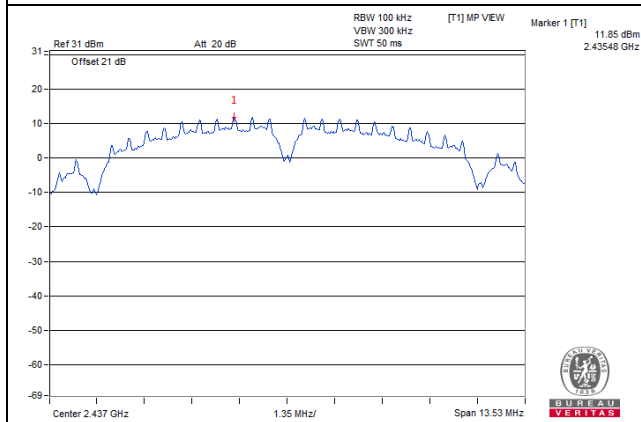
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

802.11b

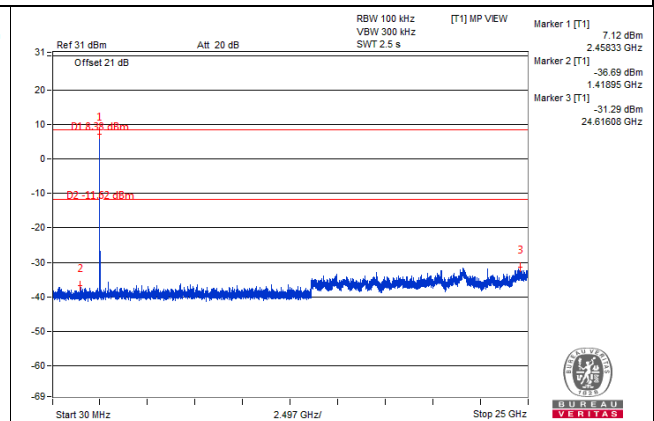
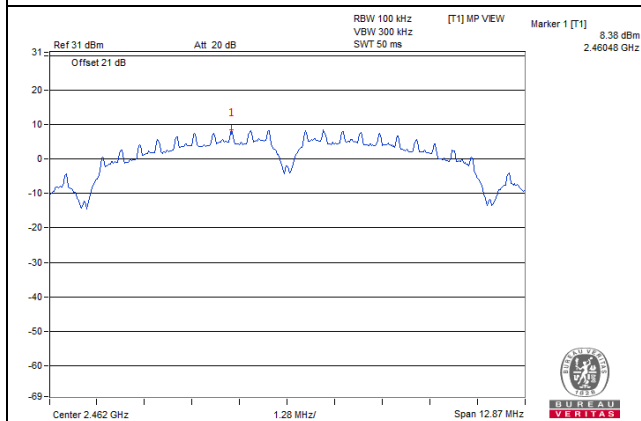
CH 1



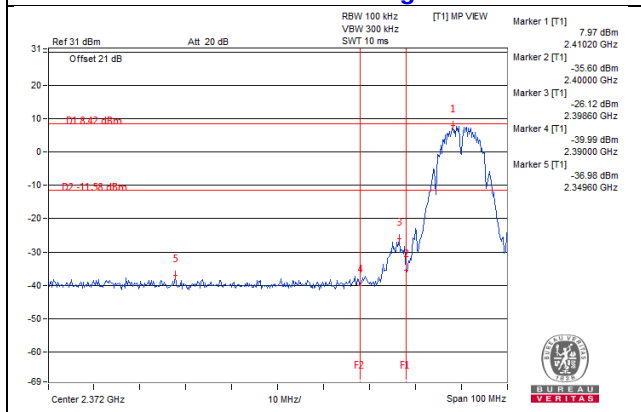
CH 6



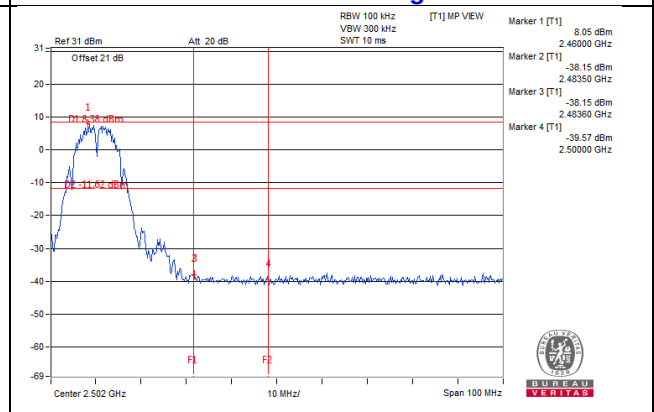
CH 11



CH 1 Band edge

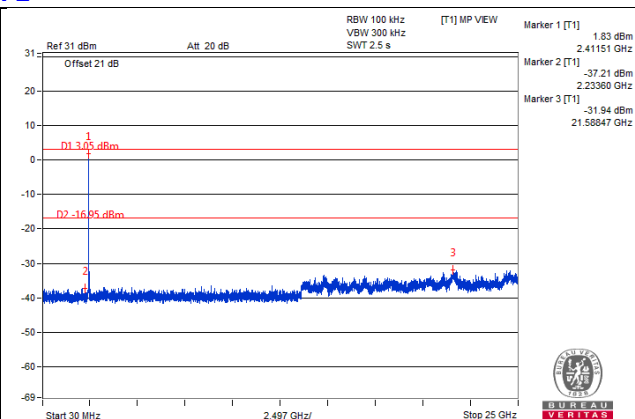
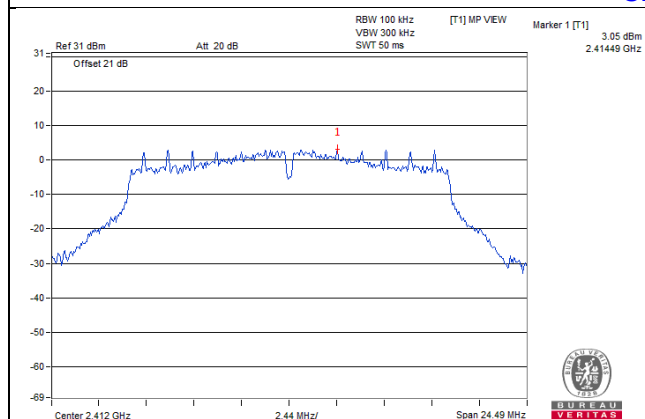


CH 11 Band edge

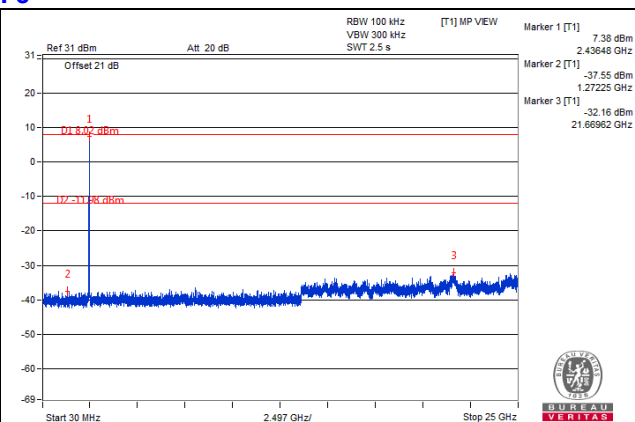
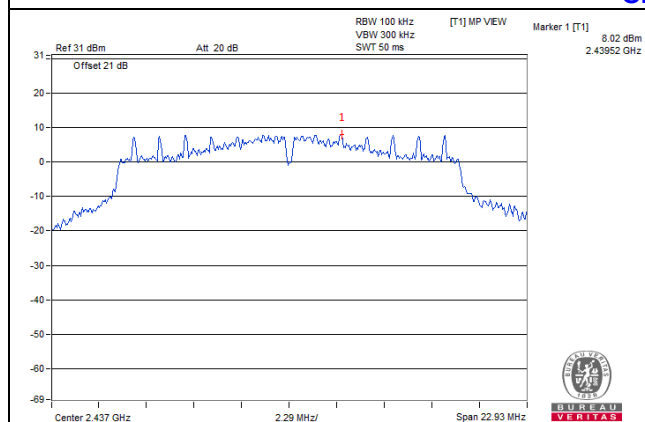


802.11g

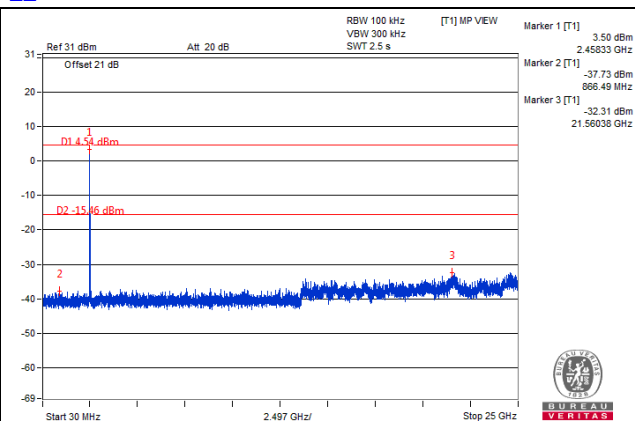
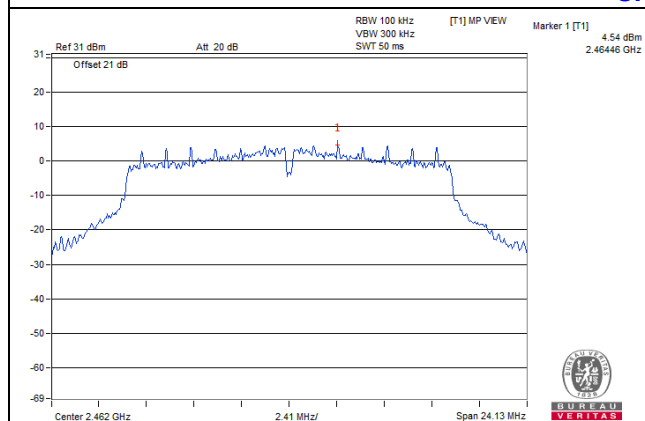
CH 1



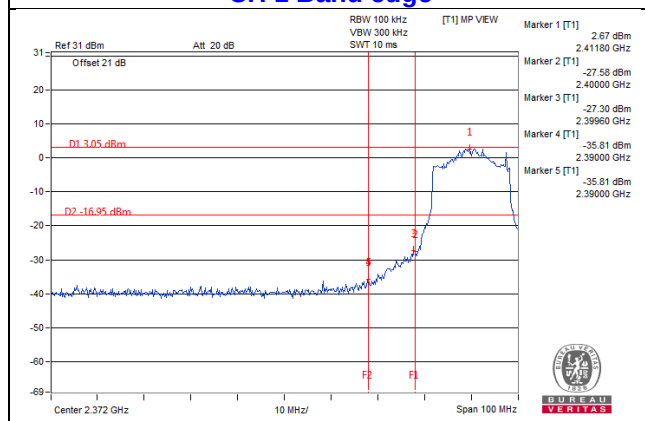
CH 6



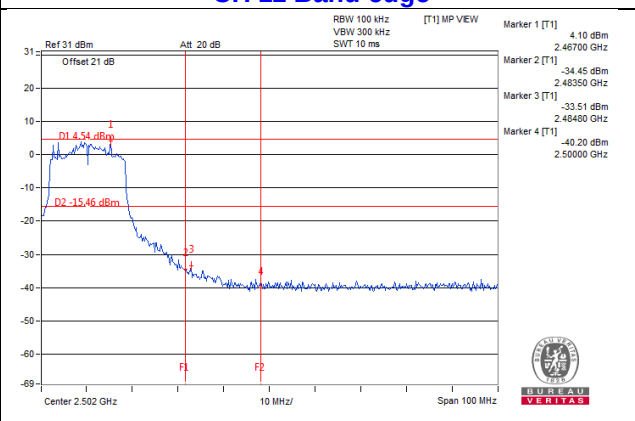
CH 11



CH 1 Band edge

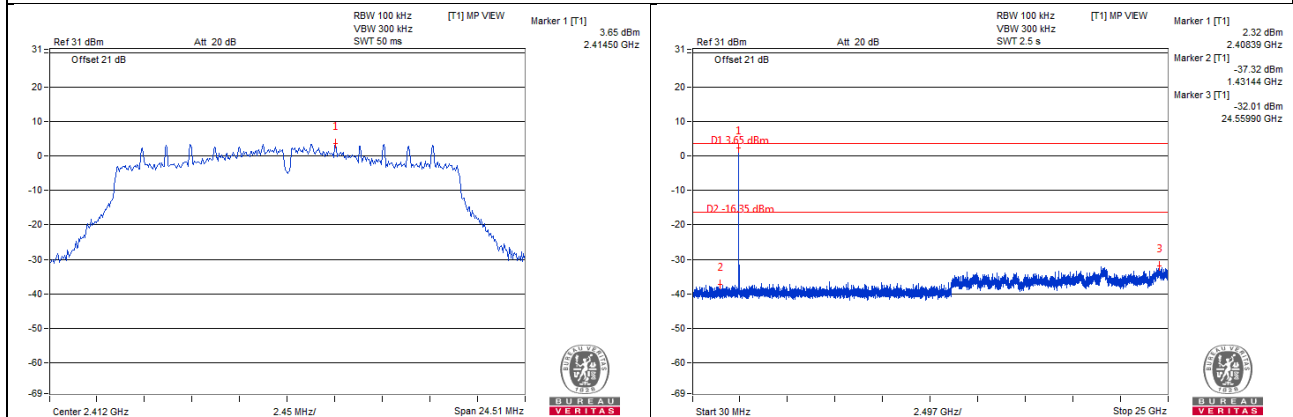


CH 11 Band edge

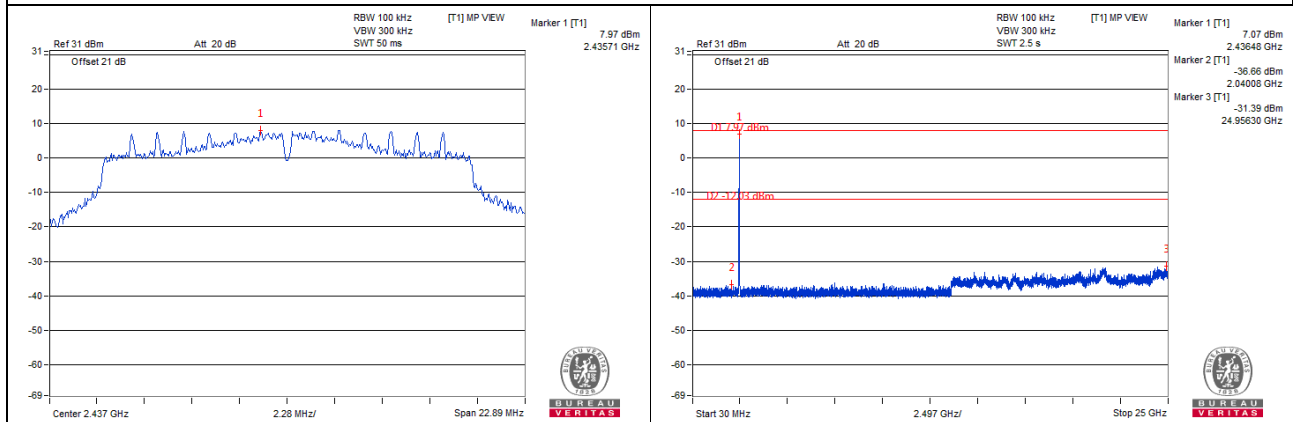


802.11n (HT20)

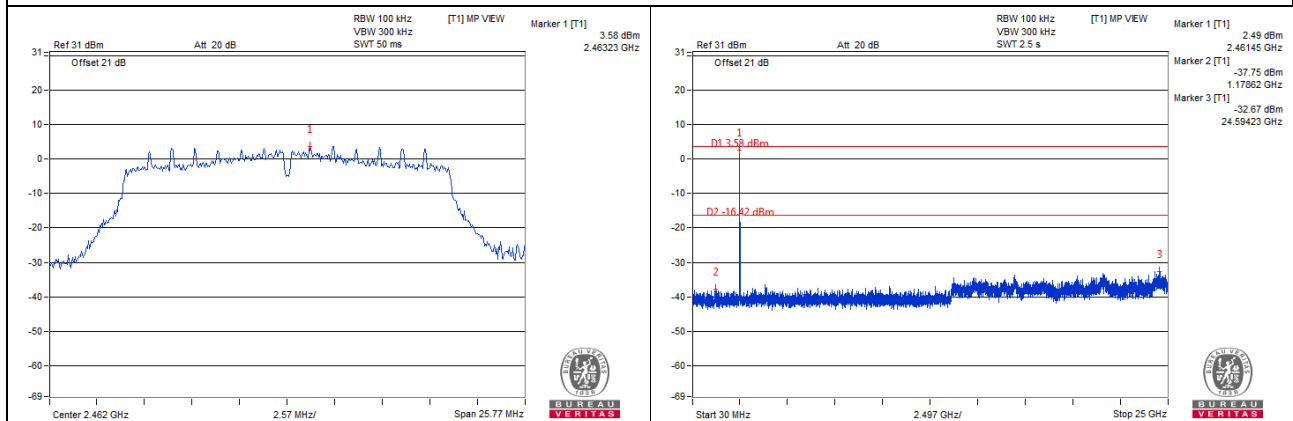
CH 1



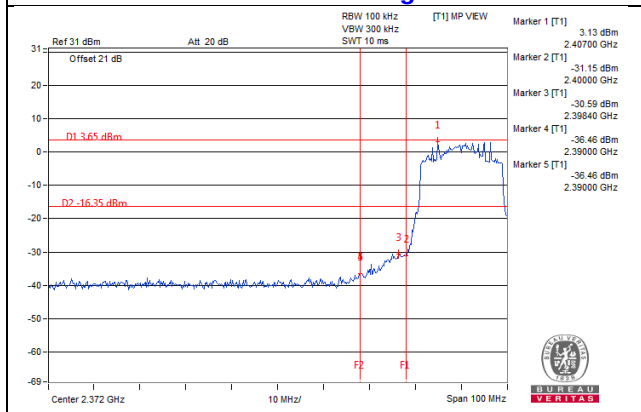
CH 6



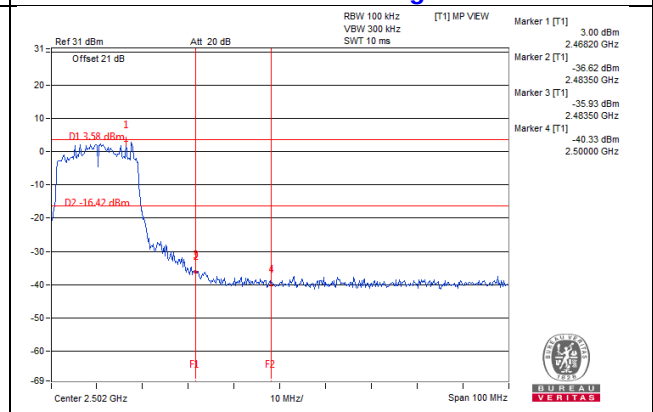
CH 11



CH 1 Band edge

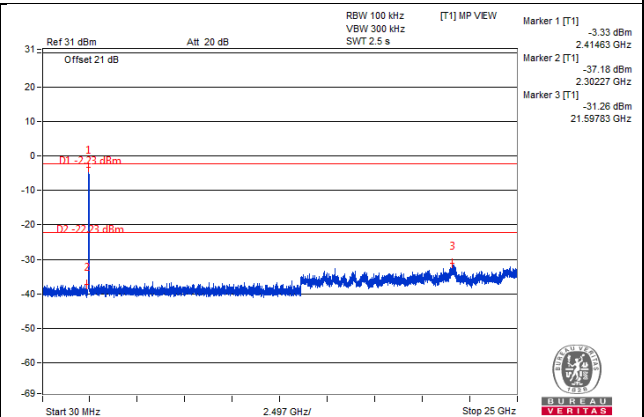
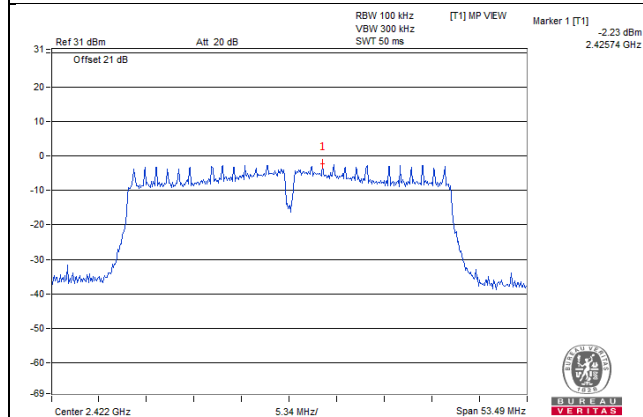


CH 11 Band edge

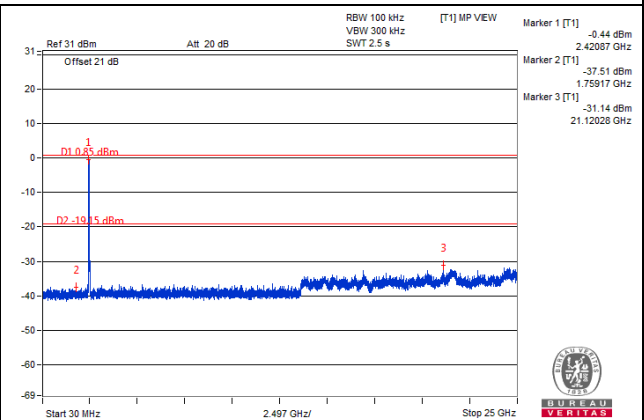
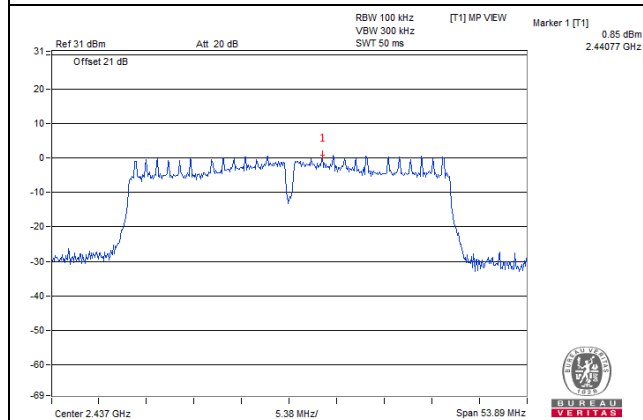


802.11n (HT40)

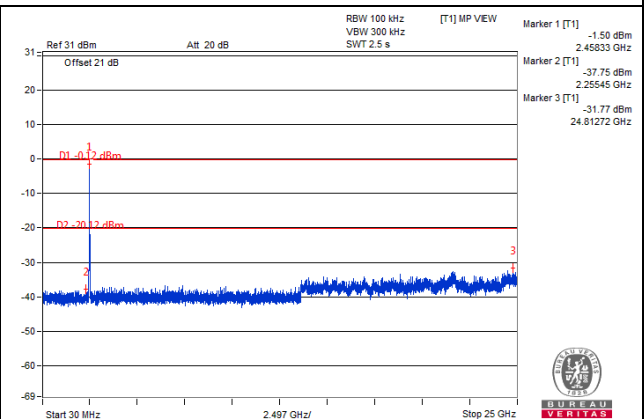
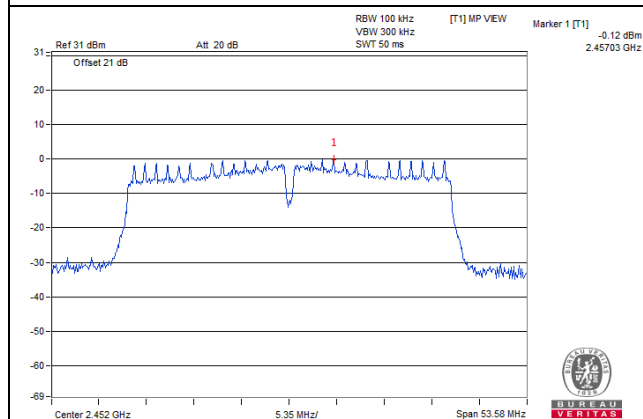
CH 3



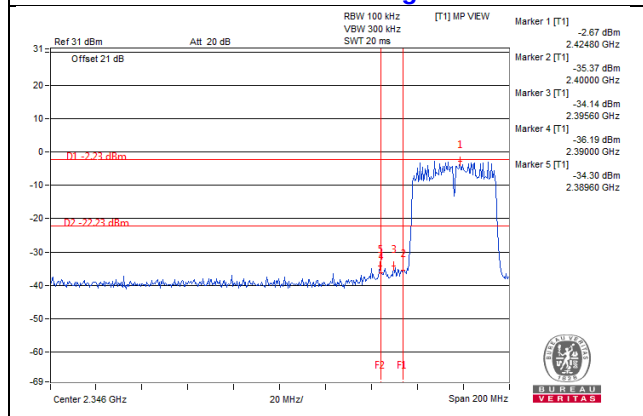
CH 6



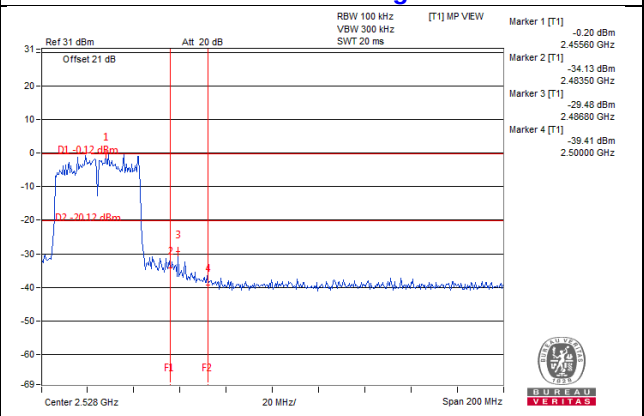
CH 9



CH 3 Band edge



CH 9 Band edge



5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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