

FCC Test Report

Report No.: RF171229C02C

FCC ID: RC6-APH50C

Test Model: APH50c, APH51c

Received Date: Jun. 14, 2018

Test Date: Jun. 19 ~ Jul. 03, 2018 and Nov. 28 ~ Nov. 29, 2018

Issued Date: Dec. 05, 2018

Applicant: Amigo Technology Inc.

Address: No. 82, Gongye 2nd Rd., Annan Dist., Tainan City 709, Taiwan (R.O.C.)

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF171229C02C	Original release	Dec. 05, 2018

1 Certificate of Conformity

Product: Indoor Access Point

Brand: Amigo

Test Model: APH50c, APH51c

Sample Status: Engineering sample

Applicant: Amigo Technology Inc.

Test Date: Jun. 19 ~ Jul. 03, 2018 and Nov. 28 ~ Nov. 29, 2018

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 : Celine Chou , **Date:** Dec. 05, 2018
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Dec. 05, 2018
Bruce Chen / 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 -11.27dB at 0.48594MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2390.00MHz.
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	For APH50c Antenna connector is IPEX not a standard connector. For APH51c Antenna connector is SMA. (The device is professionally installed)

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	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Indoor Access Point
Brand	Amigo
Test Model	APH50c, APH51c
Model Difference	Refer to Note for more details
Sample Status	Engineering sample
Power Supply Rating	12Vdc (adapter) 48 or 54Vdc (POE)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7
Output Power	317.697mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Adapter
Cable Supplied	NA

Note:

1. The following models are provided to this EUT.

Brand	Model	Description
Amigo	APH50c	WLAN and BT LE Internal Antenna
Amigo	APH51c	WLAN External Antenna, BT LE Internal Antenna

2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11b	2TX
802.11g	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX

3. The EUT with follow antennas gain is listed as table below.

For Model: APH50c (Internal Antenna)

Antenna Type	Connector	P/N	Gain(dBi)	
			2.4-2.5GHz	5.15-5.825GHz
PIFA	IPEX	ALA150-052020-02	2.44	-
		ALA150-052020-03	1.98	-
		ALX17M-092XX3-00	-	2.86
		ALX17M-092XX3-01	-	3.74

For Model: APH51c (External Antenna)

Antenna Type	Connector	Gain(dBi)					
		2.4GHz	2.42GHz	2.45GHz	2.47GHz	2.483GHz	
Dipole	SMA	2.41	2.68	2.53	2.82	2.78	
		5.15GHz	5.25GHz	5.35GHz	5.55GHz	5.75GHz	5.825GHz
		3.97	4.27	4.13	4.28	4.56	4.73

4. The EUT uses following adapter and POE.

Adapter	
Brand	Shenzhen SOY Technology Co. LTD
Model	SOY-1200125US
Input	100-240Vac, 50/60Hz, 0.6A
Output	12Vdc, 1.25A
Power Line	1.5m power cable without core attached on adapter

POE (For support unit only)	
Brand	CERIO
Model	POE-MG30
Input	100-240Vac, 50-60Hz, 1.5A
Output	48Vdc, 0.5A

POE's Adapter (For support unit only)	
Brand	Shenzhen SOY Technology Co. LTD
Model	ZZU1588-050480-2A
Input	100-240Vac, 50-60Hz, 1.5A
Output	48Vdc, 0.5A
Power Line	1.5m power cable without core attached on adapter

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	
A	√	√	√	-	Model: APH50c Powered by Adapter
B	-	√	√	-	Model: APH50c Powered by POE
C	√	√	√	√	Model: APH51c Powered by Adapter
D	-	√	√	-	Model: APH51c Powered by POE

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:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane for test mode A and B & X-plane for test mode C and D.**
2. "-" means no effect.

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.

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B, C, D	802.11g	1 to 11	6	OFDM	BPSK	6.0

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)
A, B, C, D	802.11g	1 to 11	6	OFDM	BPSK	6.0

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)
C	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
C	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
C	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	23 deg. C, 66% RH	120Vac, 60Hz	Adiar Peng
RE<1G	23 deg. C, 66% RH 22 deg. C, 66% RH	120Vac, 60Hz 48Vdc	Adiar Peng
PLC	21 deg. C, 66% RH 22 deg. C, 66% RH	120Vac, 60Hz 48Vdc	Willy Cheng Adiar Peng
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Alan Wu

3.3 Duty Cycle of Test Signal

802.11b, 802.11n (HT20): Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

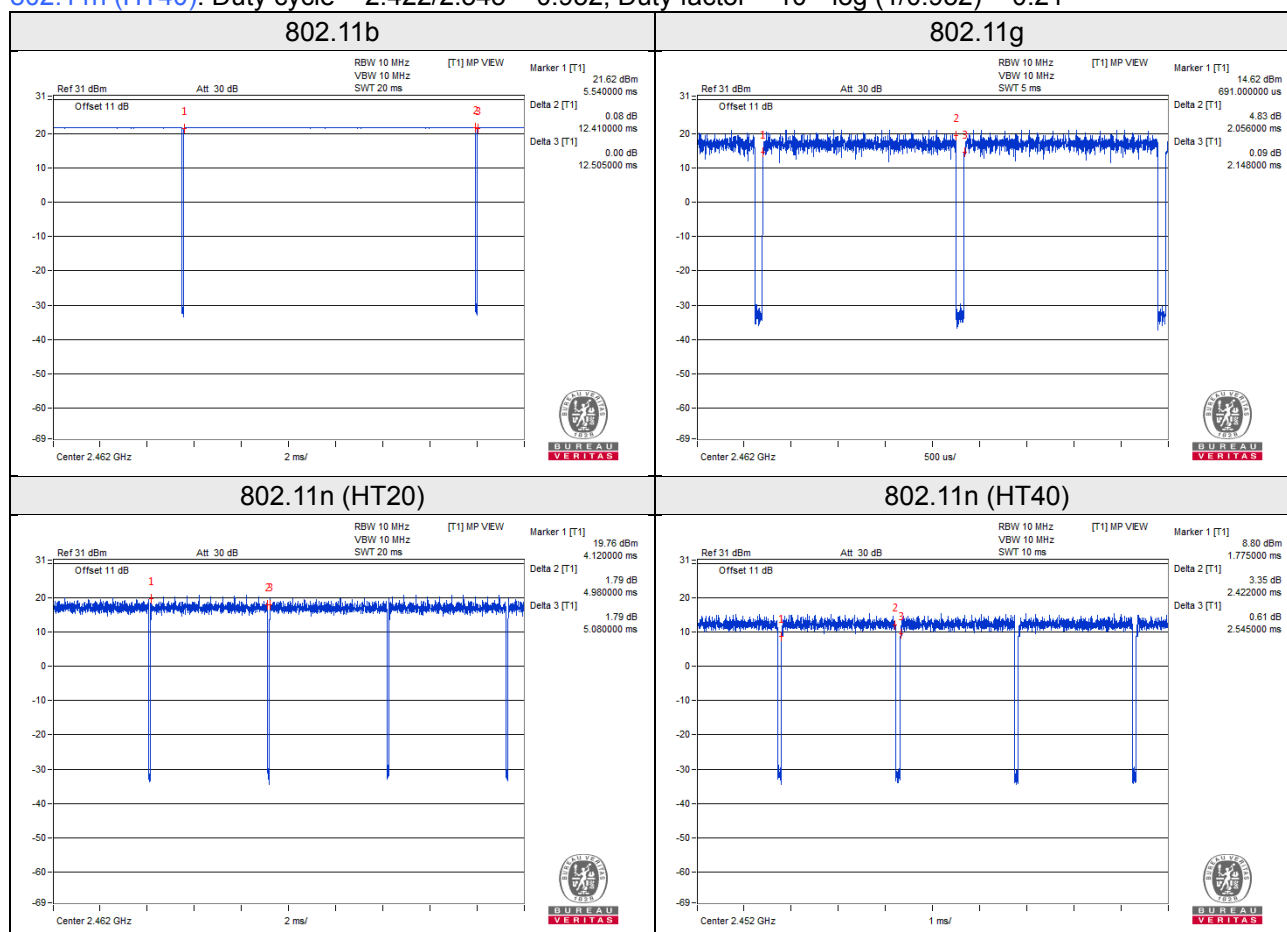
802.11g, 802.11n (HT40): Duty cycle of test signal is $< 98\%$, duty factor is required.

802.11b: Duty cycle = $12.410/12.505 = 0.992$

802.11g: Duty cycle = $2.056/2.148 = 0.957$, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle = $4.980/5.080 = 0.980$

802.11n (HT40): Duty cycle = $2.422/2.545 = 0.952$, Duty factor = $10 * \log(1/0.952) = 0.21$



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	E5410	1HC2XM1	FCC DoC Approved	-
B.	USB Flash	HP	v250W	01	NA	-
C.	Load	NA	NA	NA	NA	-
D.	POE	Shenzhen SOY Technology Co. LTD	ZZU1588-050480-2A	NA	NA	Provided by client

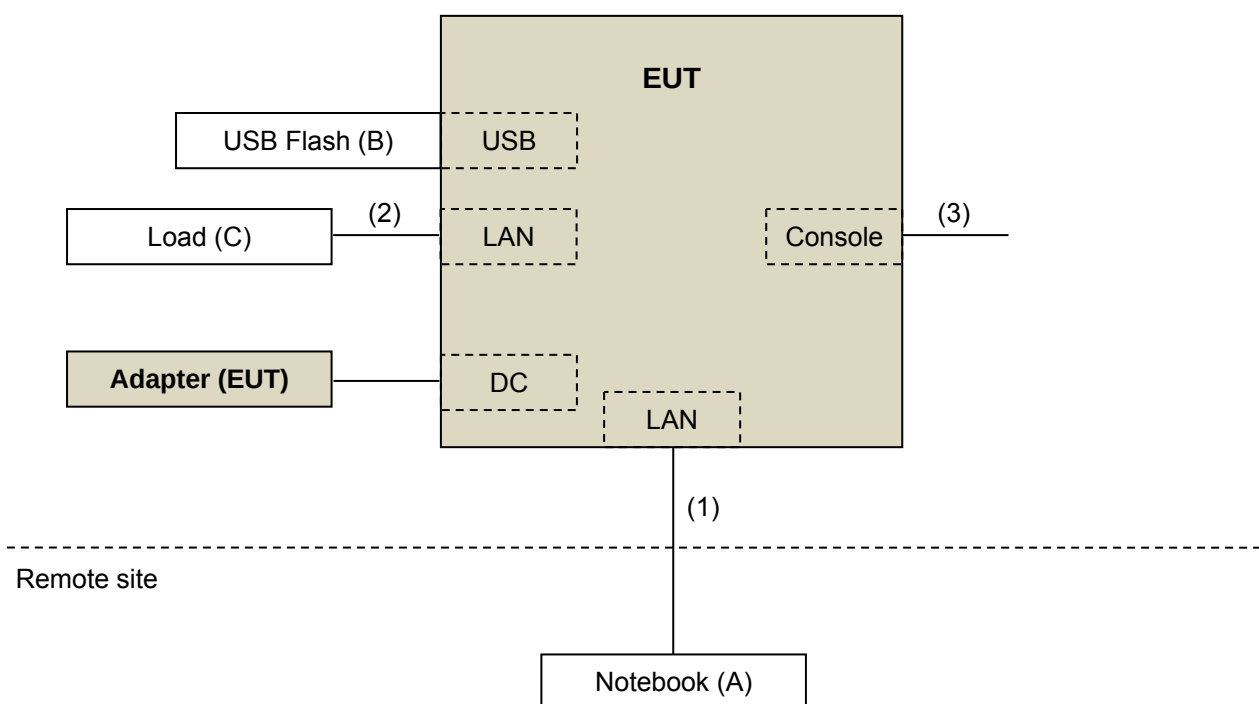
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

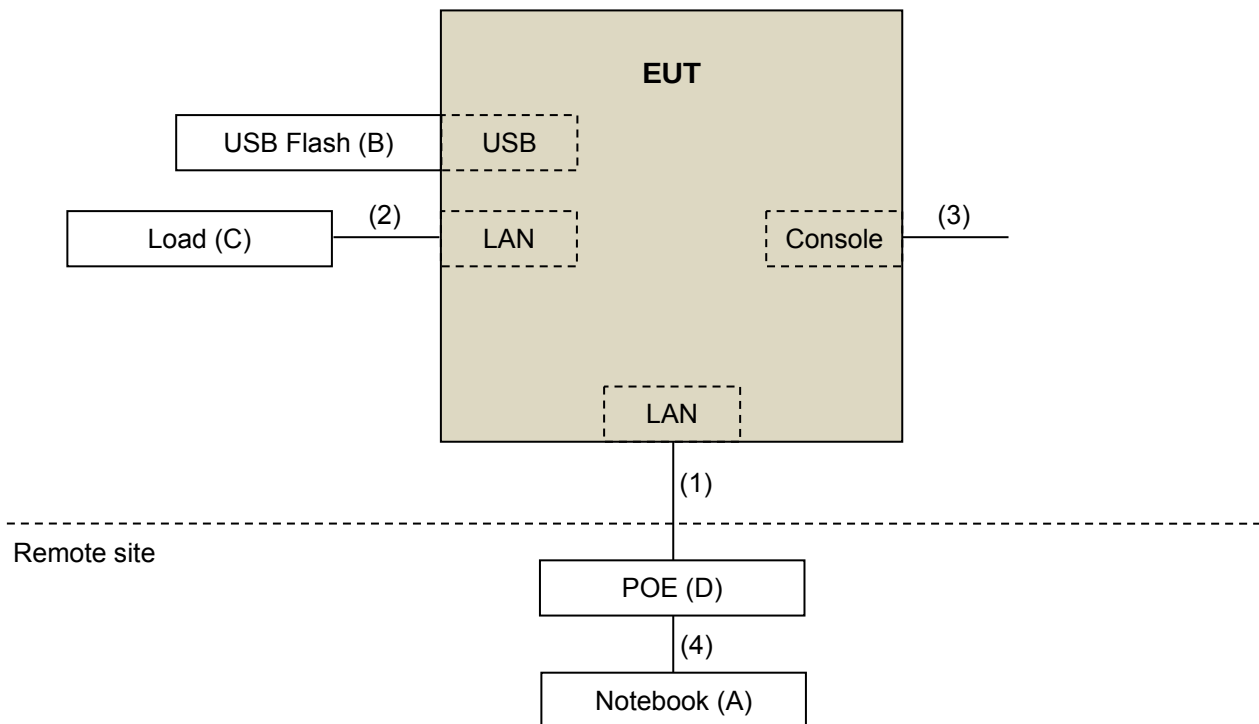
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	3	N	0	-
2.	RJ45, Cat5e	1	1.8	N	0	-
3.	Console	1	1.8	N	0	-
4.	RJ45, Cat5e	1	1.8	N	0	-

3.4.1 Configuration of System under Test

Test Mode A, C



Test Mode B, D



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 v05

KDB 662911 D01 Multiple Transmitter Output v02r01

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 30dB 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.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 29, 2018	May 28, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 12, 2017	Dec. 11, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 01, 2017	Nov. 30, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	209	Dec. 13, 2017	Dec. 12, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 01, 2017	Nov. 30, 2018
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 21, 2017	Aug. 20, 2018
			Aug. 21, 2018	Aug. 20, 2019
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Apr. 03, 2018	Apr. 02, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 21, 2017	Aug. 20, 2018
			Aug. 21, 2018	Aug. 20, 2019
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 21, 2017	Aug. 20, 2018
			Aug. 21, 2018	Aug. 20, 2019
RF signal cable WOKEN	8D-FB	Cable-CH3-01	Aug. 21, 2017	Aug. 20, 2018
			Aug. 21, 2018	Aug. 20, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2017	Nov. 13, 2018
			Nov. 14, 2018	Nov. 13, 2019
High Speed Peak Power Meter	ML2495A	1232003	Dec. 29, 2017	Dec. 28, 2018
Power Sensor	MA2411B	1207333	Dec. 28, 2017	Dec. 27, 2018

- Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is 7450F-3.

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 detect 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:

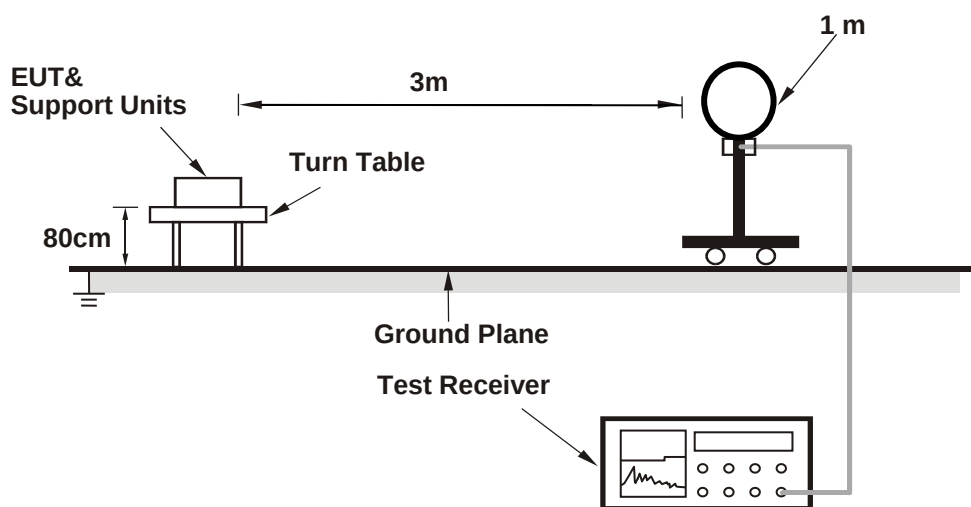
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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

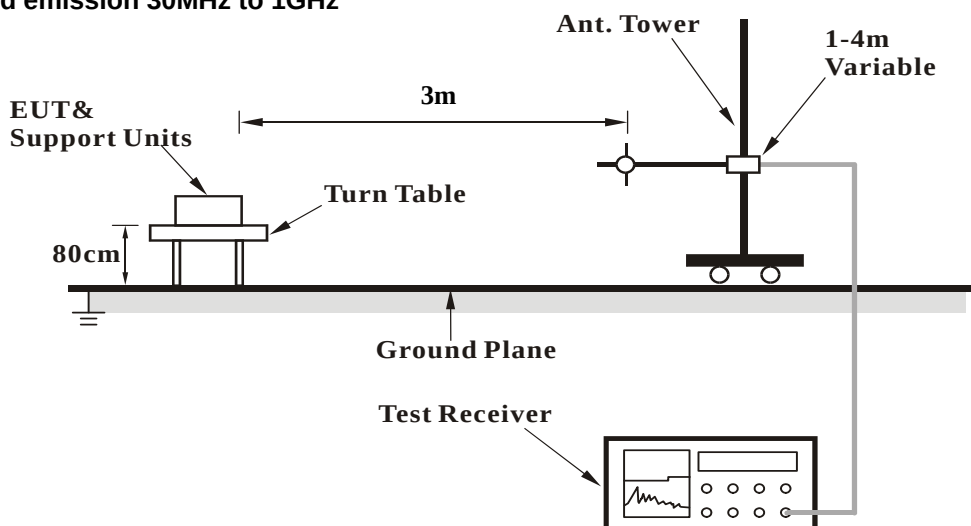
No deviation.

4.1.5 Test Setup

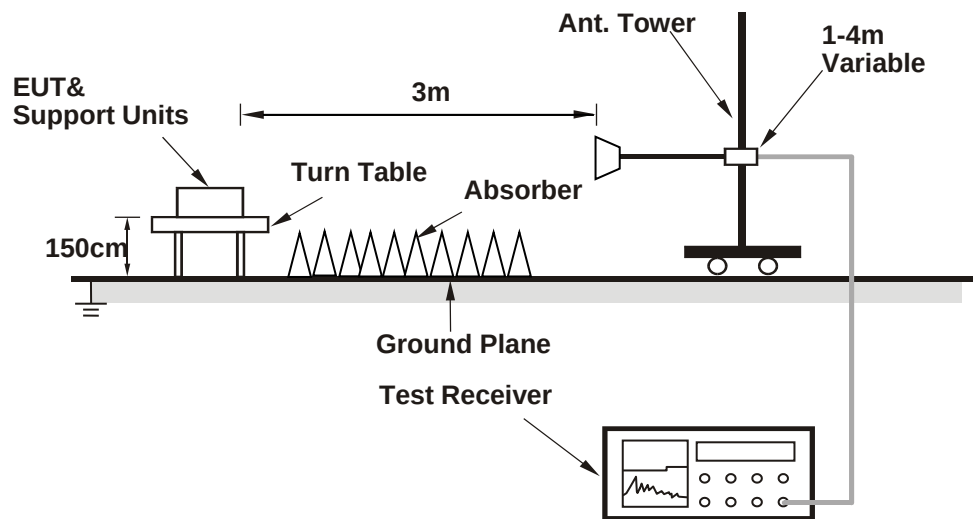
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz Data:

Test Mode A

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	62.2 PK	74.0	-11.8	1.10 H	26	28.7	33.5
2	2390.00	52.5 AV	54.0	-1.5	1.10 H	26	19.0	33.5
3	*2412.00	112.3 PK			1.88 H	27	78.9	33.4
4	*2412.00	108.8 AV			1.88 H	27	75.4	33.4
5	4824.00	54.9 PK	74.0	-19.1	2.01 H	28	50.9	4.0
6	4824.00	52.3 AV	54.0	-1.7	2.01 H	28	48.3	4.0
7	#9648.00	53.3 PK	82.3	-29.0	3.74 H	88	39.3	14.0
8	#9648.00	45.1 AV	78.8	-33.7	3.74 H	88	31.1	14.0
9	12060.00	54.4 PK	74.0	-19.6	2.11 H	43	37.6	16.8
10	12060.00	43.3 AV	54.0	-10.7	2.11 H	43	26.5	16.8
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	3.82 V	351	26.6	33.5
2	2390.00	48.2 AV	54.0	-5.8	3.82 V	351	14.7	33.5
3	*2412.00	108.0 PK			3.99 V	359	74.6	33.4
4	*2412.00	104.7 AV			3.99 V	359	71.3	33.4
5	4824.00	52.3 PK	74.0	-21.7	1.05 V	162	48.3	4.0
6	4824.00	48.9 AV	54.0	-5.1	1.05 V	162	44.9	4.0
7	#9648.00	54.2 PK	78.0	-23.8	1.45 V	2	40.2	14.0
8	#9648.00	47.1 AV	74.7	-27.6	1.45 V	2	33.1	14.0
9	12060.00	54.0 PK	74.0	-20.0	4.00 V	338	37.2	16.8
10	12060.00	44.5 AV	54.0	-9.5	4.00 V	338	27.7	16.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band.

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	*2437.00	111.7 PK			1.55 H	39	78.3	33.4
2	*2437.00	108.3 AV			1.55 H	39	74.9	33.4
3	4874.00	55.3 PK	74.0	-18.7	1.97 H	28	51.6	3.7
4	4874.00	52.2 AV	54.0	-1.8	1.97 H	28	48.5	3.7
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	*2437.00	109.4 PK			2.36 V	176	76.0	33.4
2	*2437.00	105.7 AV			2.36 V	176	72.3	33.4
3	4874.00	50.2 PK	74.0	-23.8	2.72 V	114	46.5	3.7
4	4874.00	45.6 AV	54.0	-8.4	2.72 V	114	41.9	3.7

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	111.4 PK			1.20 H	21	78.1	33.3
2	*2462.00	107.6 AV			1.20 H	21	74.3	33.3
3	2483.50	62.7 PK	74.0	-11.3	1.15 H	18	29.5	33.2
4	2483.50	52.2 AV	54.0	-1.8	1.15 H	18	19.0	33.2
5	4924.00	50.6 PK	74.0	-23.4	1.20 H	27	47.1	3.5
6	4924.00	45.5 AV	54.0	-8.5	1.20 H	27	42.0	3.5
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	109.1 PK			2.20 V	170	75.8	33.3
2	*2462.00	104.8 AV			2.20 V	170	71.5	33.3
3	2483.50	61.2 PK	74.0	-12.8	2.14 V	174	28.0	33.2
4	2483.50	49.1 AV	54.0	-4.9	2.14 V	174	15.9	33.2
5	4924.00	52.5 PK	74.0	-21.5	2.96 V	121	49.0	3.5
6	4924.00	48.8 AV	54.0	-5.2	2.96 V	121	45.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	70.7 PK	74.0	-3.3	1.22 H	40	37.2	33.5
2	2390.00	52.4 AV	54.0	-1.6	1.22 H	40	18.9	33.5
3	*2412.00	108.3 PK			1.81 H	45	74.9	33.4
4	*2412.00	98.3 AV			1.81 H	45	64.9	33.4
5	4824.00	47.2 PK	74.0	-26.8	1.70 H	169	43.2	4.0
6	4824.00	39.3 AV	54.0	-14.7	1.70 H	169	35.3	4.0
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	65.8 PK	74.0	-8.2	2.34 V	177	32.3	33.5
2	2390.00	50.3 AV	54.0	-3.7	2.34 V	177	16.8	33.5
3	*2412.00	105.0 PK			2.26 V	173	71.6	33.4
4	*2412.00	95.0 AV			2.26 V	173	61.6	33.4
5	4824.00	47.2 PK	74.0	-26.8	2.77 V	119	43.2	4.0
6	4824.00	37.8 AV	54.0	-16.2	2.77 V	119	33.8	4.0

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	*2437.00	114.0 PK			1.40 H	29	80.6	33.4
2	*2437.00	103.8 AV			1.40 H	29	70.4	33.4
3	4874.00	53.2 PK	74.0	-20.8	2.18 H	26	49.5	3.7
4	4874.00	40.1 AV	54.0	-13.9	2.18 H	26	36.4	3.7
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	*2437.00	111.8 PK			2.37 V	173	78.4	33.4
2	*2437.00	101.2 AV			2.37 V	173	67.8	33.4
3	4874.00	50.6 PK	74.0	-23.4	3.41 V	156	46.9	3.7
4	4874.00	41.1 AV	54.0	-12.9	3.41 V	156	37.4	3.7

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	106.5 PK			1.33 H	29	73.2	33.3
2	*2462.00	96.3 AV			1.33 H	29	63.0	33.3
3	2483.50	71.9 PK	74.0	-2.1	1.37 H	26	38.7	33.2
4	2483.50	52.4 AV	54.0	-1.6	1.37 H	26	19.2	33.2
5	4924.00	48.5 PK	74.0	-25.5	1.85 H	169	45.0	3.5
6	4924.00	41.2 AV	54.0	-12.8	1.85 H	169	37.7	3.5
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	103.1 PK			2.22 V	166	69.8	33.3
2	*2462.00	93.0 AV			2.22 V	166	59.7	33.3
3	2483.50	67.4 PK	74.0	-6.6	2.21 V	174	34.2	33.2
4	2483.50	50.1 AV	54.0	-3.9	2.21 V	174	16.9	33.2
5	4924.00	49.4 PK	74.0	-24.6	2.36 V	125	45.9	3.5
6	4924.00	41.7 AV	54.0	-12.3	2.36 V	125	38.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	72.3 PK	74.0	-1.7	1.20 H	38	38.8	33.5
2	2390.00	51.5 AV	54.0	-2.5	1.20 H	38	18.0	33.5
3	*2412.00	106.5 PK			1.59 H	37	73.1	33.4
4	*2412.00	96.0 AV			1.59 H	37	62.6	33.4
5	4824.00	44.5 PK	74.0	-29.5	1.70 H	170	40.5	4.0
6	4824.00	36.1 AV	54.0	-17.9	1.70 H	170	32.1	4.0
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	65.0 PK	74.0	-9.0	2.37 V	182	31.5	33.5
2	2390.00	49.4 AV	54.0	-4.6	2.37 V	182	15.9	33.5
3	*2412.00	104.1 PK			2.31 V	168	70.7	33.4
4	*2412.00	94.0 AV			2.31 V	168	60.6	33.4
5	4824.00	46.9 PK	74.0	-27.1	2.70 V	127	42.9	4.0
6	4824.00	37.9 AV	54.0	-16.1	2.70 V	127	33.9	4.0

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	*2437.00	113.7 PK			1.74 H	39	80.3	33.4
2	*2437.00	103.1 AV			1.74 H	39	69.7	33.4
3	4874.00	45.7 PK	74.0	-28.3	1.69 H	168	42.0	3.7
4	4874.00	37.3 AV	54.0	-16.7	1.69 H	168	33.6	3.7
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	*2437.00	111.4 PK			2.39 V	172	78.0	33.4
2	*2437.00	100.9 AV			2.39 V	172	67.5	33.4
3	4874.00	48.8 PK	74.0	-25.2	2.87 V	126	45.1	3.7
4	4874.00	39.7 AV	54.0	-14.3	2.87 V	126	36.0	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	105.0 PK			1.56 H	40	71.7	33.3
2	*2462.00	94.2 AV			1.56 H	40	60.9	33.3
3	2483.50	71.2 PK	74.0	-2.8	1.45 H	35	38.0	33.2
4	2483.50	52.2 AV	54.0	-1.8	1.45 H	35	19.0	33.2
5	4924.00	49.5 PK	74.0	-24.5	1.80 H	169	46.0	3.5
6	4924.00	41.5 AV	54.0	-12.5	1.80 H	169	38.0	3.5
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	102.5 PK			2.21 V	168	69.2	33.3
2	*2462.00	91.6 AV			2.21 V	168	58.3	33.3
3	2483.50	66.7 PK	74.0	-7.3	2.31 V	171	33.5	33.2
4	2483.50	49.9 AV	54.0	-4.1	2.31 V	171	16.7	33.2
5	4924.00	50.6 PK	74.0	-23.4	2.90 V	126	47.1	3.5
6	4924.00	42.9 AV	54.0	-11.1	2.90 V	126	39.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	70.8 PK	74.0	-3.2	1.66 H	35	37.3	33.5
2	2390.00	52.3 AV	54.0	-1.7	1.66 H	35	18.8	33.5
3	*2422.00	102.4 PK			1.71 H	38	69.0	33.4
4	*2422.00	92.4 AV			1.71 H	38	59.0	33.4
5	4844.00	48.0 PK	74.0	-26.0	1.80 H	170	44.2	3.8
6	4844.00	38.8 AV	54.0	-15.2	1.80 H	170	35.0	3.8
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	66.8 PK	74.0	-7.2	2.63 V	169	33.3	33.5
2	2390.00	50.0 AV	54.0	-4.0	2.63 V	169	16.5	33.5
3	*2422.00	99.8 PK			2.53 V	169	66.4	33.4
4	*2422.00	90.4 AV			2.53 V	169	57.0	33.4
5	4844.00	48.5 PK	74.0	-25.5	2.88 V	116	44.7	3.8
6	4844.00	39.7 AV	54.0	-14.3	2.88 V	116	35.9	3.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	*2437.00	104.6 PK			1.50 H	29	71.2	33.4
2	*2437.00	94.2 AV			1.50 H	29	60.8	33.4
3	2483.50	72.2 PK	74.0	-1.8	1.34 H	27	39.0	33.2
4	2483.50	52.6 AV	54.0	-1.4	1.34 H	27	19.4	33.2
5	4874.00	47.9 PK	74.0	-26.1	1.85 H	171	44.2	3.7
6	4874.00	40.0 AV	54.0	-14.0	1.85 H	171	36.3	3.7
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	*2437.00	101.2 PK			4.00 V	164	67.8	33.4
2	*2437.00	91.3 AV			4.00 V	164	57.9	33.4
3	4874.00	48.7 PK	74.0	-25.3	2.79 V	132	45.0	3.7
4	4874.00	42.2 AV	54.0	-11.8	2.79 V	132	38.5	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	101.6 PK			1.32 H	28	68.2	33.4
2	*2452.00	91.4 AV			1.32 H	28	58.0	33.4
3	2483.50	68.7 PK	74.0	-5.3	1.28 H	31	35.5	33.2
4	2483.50	52.2 AV	54.0	-1.8	1.28 H	31	19.0	33.2
5	4904.00	48.7 PK	74.0	-25.3	1.73 H	168	45.2	3.5
6	4904.00	40.6 AV	54.0	-13.4	1.73 H	168	37.1	3.5
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	97.7 PK			2.34 V	173	64.3	33.4
2	*2452.00	87.7 AV			2.34 V	173	54.3	33.4
3	2483.50	66.5 PK	74.0	-7.5	2.57 V	168	33.3	33.2
4	2483.50	49.9 AV	54.0	-4.1	2.57 V	168	16.7	33.2
5	4904.00	48.8 PK	74.0	-25.2	2.88 V	127	45.3	3.5
6	4904.00	40.7 AV	54.0	-13.3	2.88 V	127	37.2	3.5

Remarks:

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

Test Mode C

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	57.0 PK	74.0	-17.0	1.25 H	342	23.5	33.5
2	2390.00	46.0 AV	54.0	-8.0	1.25 H	342	12.5	33.5
3	*2412.00	102.9 PK			1.09 H	349	69.5	33.4
4	*2412.00	99.2 AV			1.09 H	349	65.8	33.4
5	4824.00	48.6 PK	74.0	-25.4	3.86 H	282	44.6	4.0
6	4824.00	41.9 AV	54.0	-12.1	3.86 H	282	37.9	4.0
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	61.3 PK	74.0	-12.7	1.94 V	157	27.8	33.5
2	2390.00	52.6 AV	54.0	-1.4	1.94 V	157	19.1	33.5
3	*2412.00	118.4 PK			1.95 V	220	85.0	33.4
4	*2412.00	114.7 AV			1.95 V	220	81.3	33.4
5	4824.00	48.8 PK	74.0	-25.2	1.34 V	141	44.8	4.0
6	4824.00	43.1 AV	54.0	-10.9	1.34 V	141	39.1	4.0

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	2.00 H	157	23.8	33.5
2	2390.00	47.3 AV	54.0	-6.7	2.00 H	157	13.8	33.5
3	*2437.00	105.0 PK			1.72 H	128	71.6	33.4
4	*2437.00	101.4 AV			1.72 H	128	68.0	33.4
5	2483.50	58.2 PK	74.0	-15.8	1.91 H	145	25.0	33.2
6	2483.50	45.4 AV	54.0	-8.6	1.91 H	145	12.2	33.2
7	4874.00	50.2 PK	74.0	-23.8	3.87 H	285	46.5	3.7
8	4874.00	44.8 AV	54.0	-9.2	3.87 H	285	41.1	3.7
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	61.7 PK	74.0	-12.3	1.77 V	119	28.2	33.5
2	2390.00	52.4 AV	54.0	-1.6	1.77 V	119	18.9	33.5
3	*2437.00	119.3 PK			1.84 V	165	85.9	33.4
4	*2437.00	115.4 AV			1.84 V	165	82.0	33.4
5	2483.50	59.7 PK	74.0	-14.3	2.11 V	215	26.5	33.2
6	2483.50	50.3 AV	54.0	-3.7	2.11 V	215	17.1	33.2
7	4874.00	52.4 PK	74.0	-21.6	1.42 V	141	48.7	3.7
8	4874.00	48.8 AV	54.0	-5.2	1.42 V	141	45.1	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	100.8 PK			3.98 H	75	67.5	33.3
2	*2462.00	97.3 AV			3.98 H	75	64.0	33.3
3	2483.50	57.2 PK	74.0	-16.8	2.64 H	69	24.0	33.2
4	2483.50	45.6 AV	54.0	-8.4	2.64 H	69	12.4	33.2
5	4924.00	48.1 PK	74.0	-25.9	3.06 H	31	44.6	3.5
6	4924.00	42.3 AV	54.0	-11.7	3.06 H	31	38.8	3.5
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	116.3 PK			1.97 V	171	83.0	33.3
2	*2462.00	112.5 AV			1.97 V	171	79.2	33.3
3	2483.50	61.3 PK	74.0	-12.7	1.84 V	222	28.1	33.2
4	2483.50	52.4 AV	54.0	-1.6	1.84 V	222	19.2	33.2
5	4924.00	48.8 PK	74.0	-25.2	2.85 V	164	45.3	3.5
6	4924.00	43.4 AV	54.0	-10.6	2.85 V	164	39.9	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	57.4 PK	74.0	-16.6	1.41 H	89	23.9	33.5
2	2390.00	46.3 AV	54.0	-7.7	1.41 H	89	12.8	33.5
3	*2412.00	99.7 PK			1.02 H	49	66.3	33.4
4	*2412.00	89.9 AV			1.02 H	49	56.5	33.4
5	4824.00	46.7 PK	74.0	-27.3	1.01 H	142	42.7	4.0
6	4824.00	36.8 AV	54.0	-17.2	1.01 H	142	32.8	4.0
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	69.0 PK	74.0	-5.0	1.47 V	122	35.5	33.5
2	2390.00	53.0 AV	54.0	-1.0	1.47 V	122	19.5	33.5
3	*2412.00	113.8 PK			1.67 V	101	80.4	33.4
4	*2412.00	103.4 AV			1.67 V	101	70.0	33.4
5	4824.00	47.7 PK	74.0	-26.3	1.10 V	29	43.7	4.0
6	4824.00	39.5 AV	54.0	-14.5	1.10 V	29	35.5	4.0

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	*2437.00	106.9 PK			1.02 H	344	73.5	33.4
2	*2437.00	96.8 AV			1.02 H	344	63.4	33.4
3	2483.50	59.4 PK	74.0	-14.6	1.11 H	321	26.2	33.2
4	2483.50	46.3 AV	54.0	-7.7	1.11 H	321	13.1	33.2
5	4874.00	46.7 PK	74.0	-27.3	1.03 H	145	43.0	3.7
6	4874.00	37.2 AV	54.0	-16.8	1.03 H	145	33.5	3.7
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	*2437.00	120.9 PK			2.00 V	208	87.5	33.4
2	*2437.00	110.6 AV			2.00 V	208	77.2	33.4
3	2483.50	68.7 PK	74.0	-5.3	2.01 V	220	35.5	33.2
4	2483.50	52.2 AV	54.0	-1.8	2.01 V	220	19.0	33.2
5	4874.00	49.7 PK	74.0	-24.3	1.09 V	31	46.0	3.7
6	4874.00	40.9 AV	54.0	-13.1	1.09 V	31	37.2	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	98.9 PK			1.46 H	356	65.6	33.3
2	*2462.00	88.9 AV			1.46 H	356	55.6	33.3
3	2483.50	58.7 PK	74.0	-15.3	1.21 H	10	25.5	33.2
4	2483.50	45.8 AV	54.0	-8.2	1.21 H	10	12.6	33.2
5	4924.00	46.6 PK	74.0	-27.4	1.09 H	151	43.1	3.5
6	4924.00	37.3 AV	54.0	-16.7	1.09 H	151	33.8	3.5
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	111.8 PK			2.00 V	103	78.5	33.3
2	*2462.00	101.4 AV			2.00 V	103	68.1	33.3
3	2483.50	71.7 PK	74.0	-2.3	2.10 V	6	38.5	33.2
4	2483.50	52.3 AV	54.0	-1.7	2.10 V	6	19.1	33.2
5	4924.00	48.4 PK	74.0	-25.6	1.03 V	33	44.9	3.5
6	4924.00	41.5 AV	54.0	-12.5	1.03 V	33	38.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	57.5 PK	74.0	-16.5	1.14 H	204	24.0	33.5
2	2390.00	46.5 AV	54.0	-7.5	1.14 H	204	13.0	33.5
3	*2412.00	99.8 PK			1.00 H	209	66.4	33.4
4	*2412.00	89.0 AV			1.00 H	209	55.6	33.4
5	4824.00	47.2 PK	74.0	-26.8	1.01 H	150	43.2	4.0
6	4824.00	37.3 AV	54.0	-16.7	1.01 H	150	33.3	4.0
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	71.0 PK	74.0	-3.0	1.26 V	95	37.5	33.5
2	2390.00	52.3 AV	54.0	-1.7	1.26 V	95	18.8	33.5
3	*2412.00	112.3 PK			1.72 V	326	78.9	33.4
4	*2412.00	101.8 AV			1.72 V	326	68.4	33.4
5	4824.00	47.8 PK	74.0	-26.2	1.06 V	30	43.8	4.0
6	4824.00	40.0 AV	54.0	-14.0	1.06 V	30	36.0	4.0

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	*2437.00	105.9 PK			1.04 H	209	72.5	33.4
2	*2437.00	95.6 AV			1.04 H	209	62.2	33.4
3	2483.50	58.1 PK	74.0	-15.9	1.11 H	189	24.9	33.2
4	2483.50	45.9 AV	54.0	-8.1	1.11 H	189	12.7	33.2
5	4874.00	47.7 PK	74.0	-26.3	1.05 H	148	44.0	3.7
6	4874.00	38.0 AV	54.0	-16.0	1.05 H	148	34.3	3.7
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	*2437.00	118.9 PK			1.53 V	113	85.5	33.4
2	*2437.00	108.6 AV			1.53 V	113	75.2	33.4
3	2483.50	71.2 PK	74.0	-2.8	2.13 V	5	38.0	33.2
4	2483.50	52.3 AV	54.0	-1.7	2.13 V	5	19.1	33.2
5	4874.00	50.7 PK	74.0	-23.3	1.09 V	33	47.0	3.7
6	4874.00	41.4 AV	54.0	-12.6	1.09 V	33	37.7	3.7

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	96.8 PK			1.00 H	49	63.5	33.3
2	*2462.00	86.7 AV			1.00 H	49	53.4	33.3
3	2483.50	57.6 PK	74.0	-16.4	1.22 H	69	24.4	33.2
4	2483.50	45.8 AV	54.0	-8.2	1.22 H	69	12.6	33.2
5	4924.00	46.5 PK	74.0	-27.5	1.04 H	149	43.0	3.5
6	4924.00	38.0 AV	54.0	-16.0	1.04 H	149	34.5	3.5
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	111.0 PK			1.88 V	163	77.7	33.3
2	*2462.00	100.5 AV			1.88 V	163	67.2	33.3
3	2483.50	72.7 PK	74.0	-1.3	1.98 V	350	39.5	33.2
4	2483.50	52.7 AV	54.0	-1.3	1.98 V	350	19.5	33.2
5	4924.00	48.2 PK	74.0	-25.8	1.04 V	35	44.7	3.5
6	4924.00	41.2 AV	54.0	-12.8	1.04 V	35	37.7	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	57.7 PK	74.0	-16.3	1.22 H	174	24.2	33.5
2	2390.00	46.5 AV	54.0	-7.5	1.22 H	174	13.0	33.5
3	*2422.00	94.6 PK			1.01 H	209	61.2	33.4
4	*2422.00	84.5 AV			1.01 H	209	51.1	33.4
5	4844.00	46.3 PK	74.0	-27.7	1.10 H	151	42.5	3.8
6	4844.00	36.7 AV	54.0	-17.3	1.10 H	151	32.9	3.8
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	68.5 PK	74.0	-5.5	2.04 V	9	35.0	33.5
2	2390.00	52.3 AV	54.0	-1.7	2.04 V	9	18.8	33.5
3	*2422.00	106.7 PK			2.03 V	103	73.3	33.4
4	*2422.00	97.1 AV			2.03 V	103	63.7	33.4
5	4844.00	47.5 PK	74.0	-26.5	1.04 V	33	43.7	3.8
6	4844.00	40.3 AV	54.0	-13.7	1.04 V	33	36.5	3.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	57.9 PK	74.0	-16.1	1.51 H	59	24.4	33.5
2	2390.00	46.4 AV	54.0	-7.6	1.51 H	59	12.9	33.5
3	*2437.00	97.4 PK			2.03 H	41	64.0	33.4
4	*2437.00	87.8 AV			2.03 H	41	54.4	33.4
5	4874.00	47.1 PK	74.0	-26.9	1.05 H	149	43.4	3.7
6	4874.00	37.6 AV	54.0	-16.4	1.05 H	149	33.9	3.7
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	1.76 V	118	33.1	33.5
2	2390.00	52.3 AV	54.0	-1.7	1.76 V	118	18.8	33.5
3	*2437.00	108.8 PK			1.73 V	159	75.4	33.4
4	*2437.00	99.1 AV			1.73 V	159	65.7	33.4
5	4874.00	48.6 PK	74.0	-25.4	1.11 V	33	44.9	3.7
6	4874.00	40.5 AV	54.0	-13.5	1.11 V	33	36.8	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
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	93.5 PK			1.04 H	344	60.1	33.4
2	*2452.00	83.7 AV			1.04 H	344	50.3	33.4
3	2483.50	58.7 PK	74.0	-15.3	1.16 H	321	25.5	33.2
4	2483.50	46.7 AV	54.0	-7.3	1.16 H	321	13.5	33.2
5	4904.00	47.4 PK	74.0	-26.6	1.04 H	149	43.9	3.5
6	4904.00	37.9 AV	54.0	-16.1	1.04 H	149	34.4	3.5
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	107.0 PK			1.95 V	232	73.6	33.4
2	*2452.00	97.4 AV			1.95 V	232	64.0	33.4
3	2483.50	71.4 PK	74.0	-2.6	1.85 V	117	38.2	33.2
4	2483.50	52.9 AV	54.0	-1.1	1.85 V	117	19.7	33.2
5	4904.00	48.2 PK	74.0	-25.8	1.09 V	32	44.7	3.5
6	4904.00	40.7 AV	54.0	-13.3	1.09 V	32	37.2	3.5

Remarks:

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

Below 1GHz worst-case data:

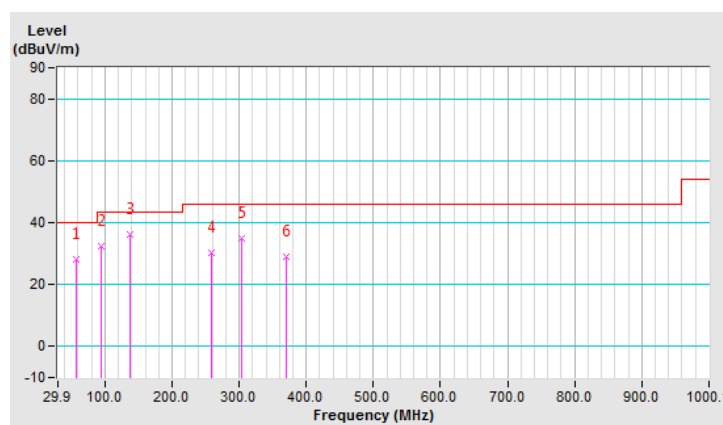
802.11g

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

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	57.12	28.2 QP	40.0	-11.8	1.99 H	332	37.7	-9.5
2	94.06	32.3 QP	43.5	-11.2	1.99 H	298	46.6	-14.3
3	136.84	36.3 QP	43.5	-7.2	1.99 H	247	46.1	-9.8
4	259.33	30.1 QP	46.0	-15.9	1.00 H	83	38.8	-8.7
5	304.04	34.8 QP	46.0	-11.2	1.00 H	138	41.8	-7.0
6	370.15	28.9 QP	46.0	-17.1	1.00 H	152	34.6	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

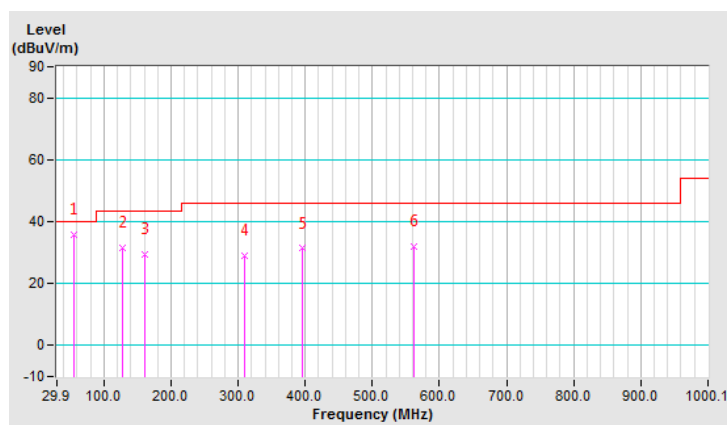


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	A		

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	55.18	35.6 QP	40.0	-4.4	1.00 V	15	45.0	-9.4
2	127.11	31.4 QP	43.5	-12.1	1.00 V	357	42.1	-10.7
3	160.17	29.2 QP	43.5	-14.3	1.00 V	181	37.9	-8.7
4	309.88	29.0 QP	46.0	-17.0	1.50 V	226	35.8	-6.8
5	395.43	31.3 QP	46.0	-14.7	1.50 V	307	36.5	-5.2
6	562.64	32.1 QP	46.0	-13.9	1.00 V	306	33.8	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

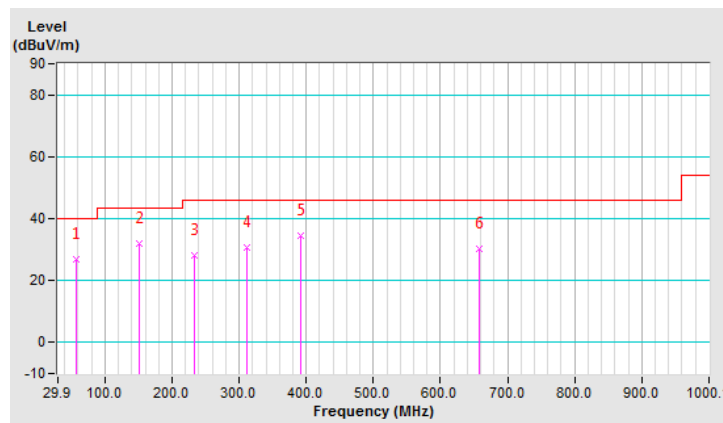


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

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	57.12	26.9 QP	40.0	-13.1	2.00 H	217	37.0	-10.1
2	150.45	32.1 QP	43.5	-11.4	1.51 H	248	41.2	-9.1
3	234.05	28.1 QP	46.0	-17.9	1.51 H	240	38.2	-10.1
4	311.82	30.5 QP	46.0	-15.5	1.00 H	138	37.5	-7.0
5	391.54	34.5 QP	46.0	-11.5	1.00 H	126	40.3	-5.8
6	657.91	30.1 QP	46.0	-15.9	1.51 H	16	30.6	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

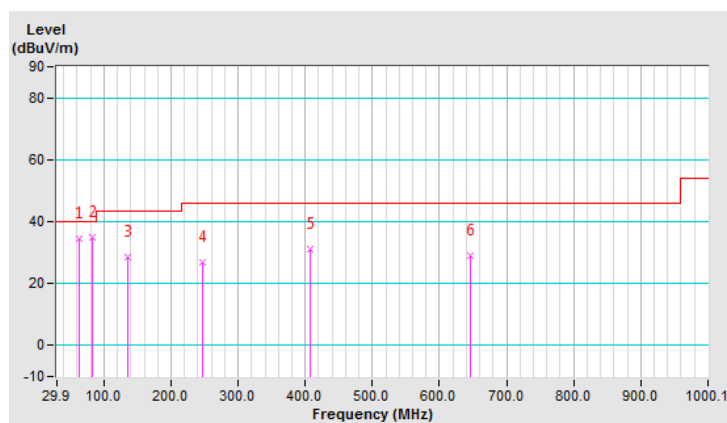


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

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	62.95	34.5 QP	40.0	-5.5	1.00 V	7	44.8	-10.3
2	82.40	34.8 QP	40.0	-5.2	1.00 V	131	49.1	-14.3
3	134.89	28.4 QP	43.5	-15.1	1.00 V	264	38.5	-10.1
4	247.66	26.9 QP	46.0	-19.1	1.00 V	179	36.1	-9.2
5	407.09	31.2 QP	46.0	-14.8	1.00 V	316	36.7	-5.5
6	646.24	29.1 QP	46.0	-16.9	1.50 V	342	29.6	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

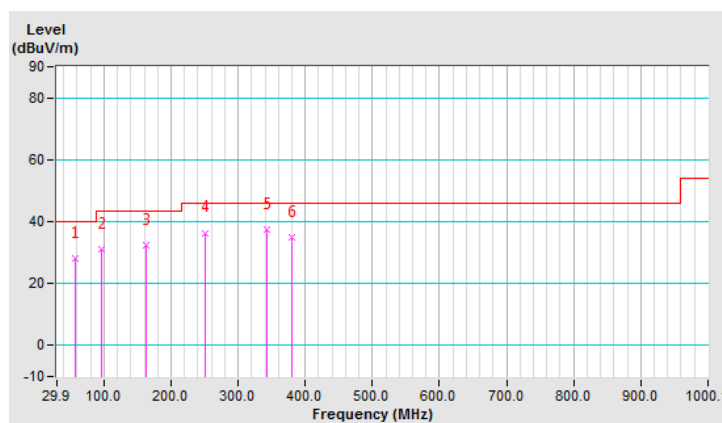


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	C		

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	57.12	28.2 QP	40.0	-11.8	1.99 H	298	37.7	-9.5
2	96.01	31.0 QP	43.5	-12.5	1.99 H	263	45.0	-14.0
3	162.11	32.4 QP	43.5	-11.1	1.50 H	99	41.2	-8.8
4	251.55	36.4 QP	46.0	-9.6	1.00 H	16	45.4	-9.0
5	342.93	37.6 QP	46.0	-8.4	1.00 H	57	43.9	-6.3
6	379.87	34.8 QP	46.0	-11.2	1.00 H	72	40.2	-5.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

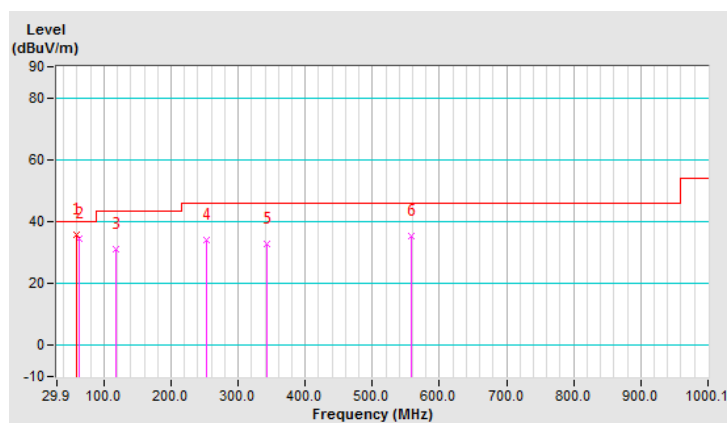


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	C		

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	59.43	35.6 QP	40.0	-4.4	1.00 V	31	45.2	-9.6
2	62.95	34.4 QP	40.0	-5.6	1.00 V	13	44.5	-10.1
3	117.39	31.0 QP	43.5	-12.5	1.00 V	46	42.6	-11.6
4	253.49	34.1 QP	46.0	-11.9	1.99 V	308	43.0	-8.9
5	342.93	32.7 QP	46.0	-13.3	1.00 V	13	39.0	-6.3
6	558.75	35.2 QP	46.0	-10.8	1.00 V	76	37.0	-1.8

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

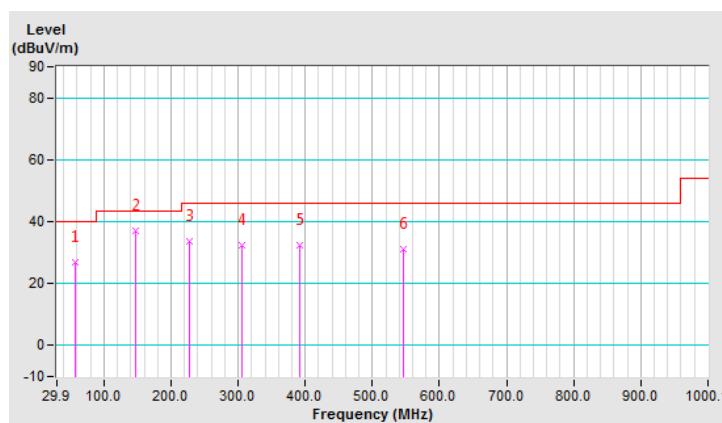


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	D		

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	57.12	26.9 QP	40.0	-13.1	2.00 H	239	37.0	-10.1
2	146.56	37.0 QP	43.5	-6.5	2.00 H	78	46.2	-9.2
3	228.22	33.8 QP	46.0	-12.2	1.51 H	226	44.3	-10.5
4	305.99	32.5 QP	46.0	-13.5	1.00 H	228	39.7	-7.2
5	391.54	32.4 QP	46.0	-13.6	1.00 H	300	38.2	-5.8
6	547.08	31.1 QP	46.0	-14.9	1.51 H	91	33.9	-2.8

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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

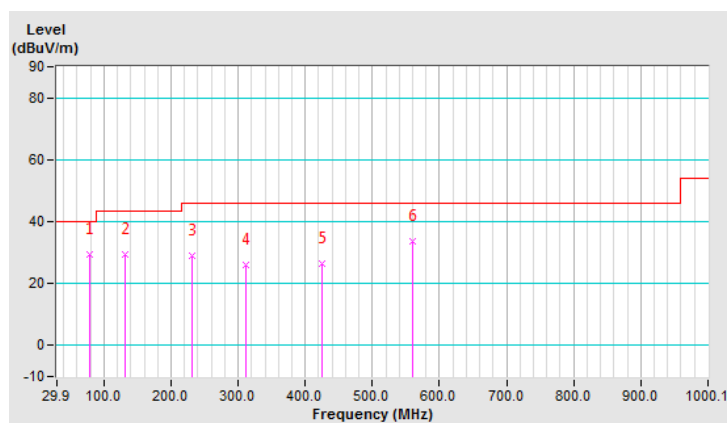


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	D		

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	78.51	29.5 QP	40.0	-10.5	1.99 V	155	43.2	-13.7
2	131.00	29.3 QP	43.5	-14.2	1.00 V	16	39.8	-10.5
3	232.11	29.1 QP	46.0	-16.9	1.00 V	301	39.3	-10.2
4	311.82	26.1 QP	46.0	-19.9	1.49 V	281	33.1	-7.0
5	424.59	26.6 QP	46.0	-19.4	1.00 V	249	31.4	-4.8
6	560.69	33.8 QP	46.0	-12.2	1.00 V	72	36.3	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
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 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Feb. 08, 2018	Feb. 07, 2019
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
			Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 06, 2018	Mar. 05, 2019
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
			Aug. 19, 2018	Aug. 18, 2019
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.

3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

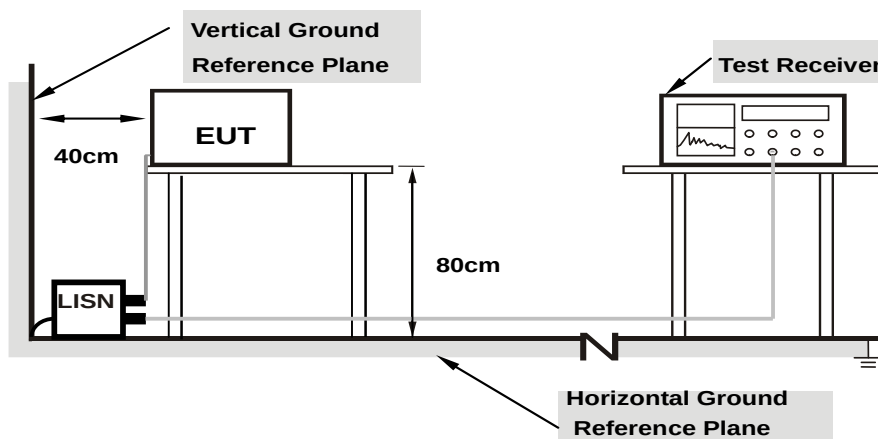
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

Worst-case data:

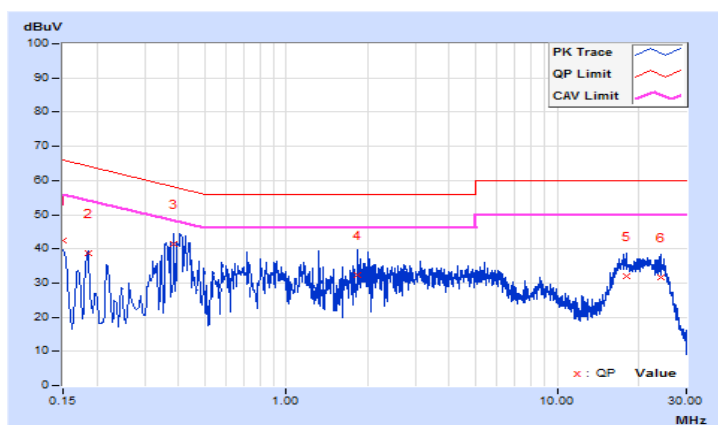
802.11g

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.73	32.60	17.49	42.33	27.22	66.00	56.00	-23.67	-28.78
2	0.18508	9.73	28.97	16.82	38.70	26.55	64.25	54.25	-25.55	-27.70
3	0.38460	9.76	31.69	19.95	41.45	29.71	58.18	48.18	-16.73	-18.47
4	1.82739	9.76	22.73	11.60	32.49	21.36	56.00	46.00	-23.51	-24.64
5	17.93268	9.97	21.91	15.72	31.88	25.69	60.00	50.00	-28.12	-24.31
6	24.05574	10.01	21.64	13.03	31.65	23.04	60.00	50.00	-28.35	-26.96

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.

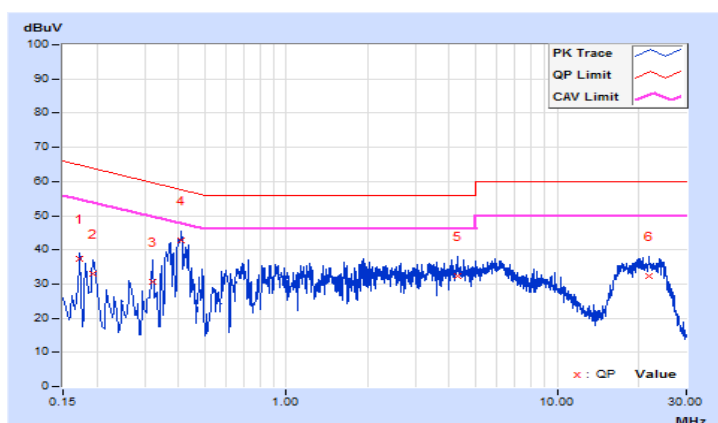


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	9.73	27.54	13.06	37.27	22.79	64.79	54.79	-27.52	-32.00
2	0.19305	9.73	23.36	6.95	33.09	16.68	63.90	53.90	-30.81	-37.22
3	0.32204	9.75	20.89	9.44	30.64	19.19	59.65	49.65	-29.01	-30.46
4	0.40800	9.76	32.84	22.95	42.60	32.71	57.69	47.69	-15.09	-14.98
5	4.30242	9.84	22.44	14.54	32.28	24.38	56.00	46.00	-23.72	-21.62
6	21.76839	10.14	22.21	16.26	32.35	26.40	60.00	50.00	-27.65	-23.60

Remarks:

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

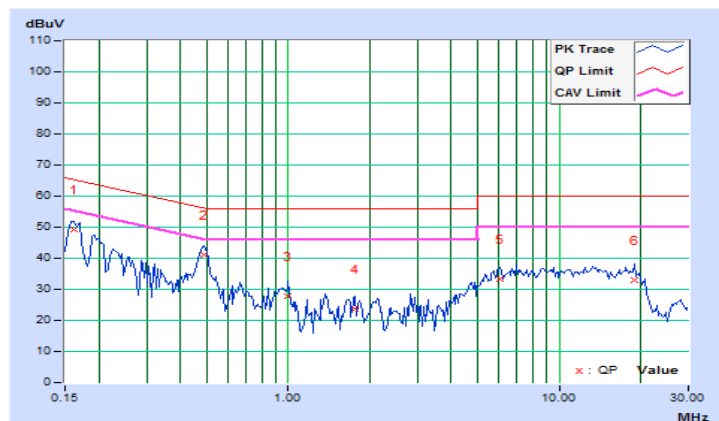


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.67	39.64	27.27	49.31	36.94	65.38	55.38	-16.07	-18.44
2	0.48594	9.66	31.46	25.31	41.12	34.97	56.24	46.24	-15.12	-11.27
3	0.99766	9.65	18.11	13.42	27.76	23.07	56.00	46.00	-28.24	-22.93
4	1.77344	9.67	14.21	7.41	23.88	17.08	56.00	46.00	-32.12	-28.92
5	6.08203	9.77	23.53	17.40	33.30	27.17	60.00	50.00	-26.70	-22.83
6	19.00000	9.91	22.98	17.52	32.89	27.43	60.00	50.00	-27.11	-22.57

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.

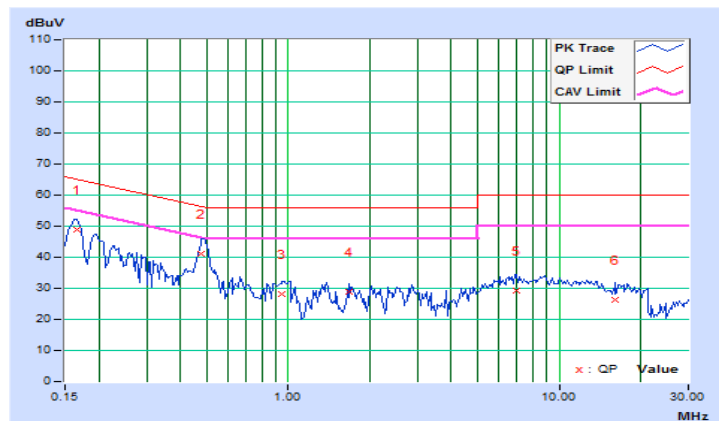


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.68	39.05	27.47	48.73	37.15	65.18	55.18	-16.45	-18.03
2	0.47813	9.67	31.58	24.92	41.25	34.59	56.37	46.37	-15.12	-11.78
3	0.94688	9.65	18.65	12.02	28.30	21.67	56.00	46.00	-27.70	-24.33
4	1.66797	9.67	19.34	14.57	29.01	24.24	56.00	46.00	-26.99	-21.76
5	6.93750	9.79	19.61	13.51	29.40	23.30	60.00	50.00	-30.60	-26.70
6	16.11328	9.96	16.21	11.56	26.17	21.52	60.00	50.00	-33.83	-28.48

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.

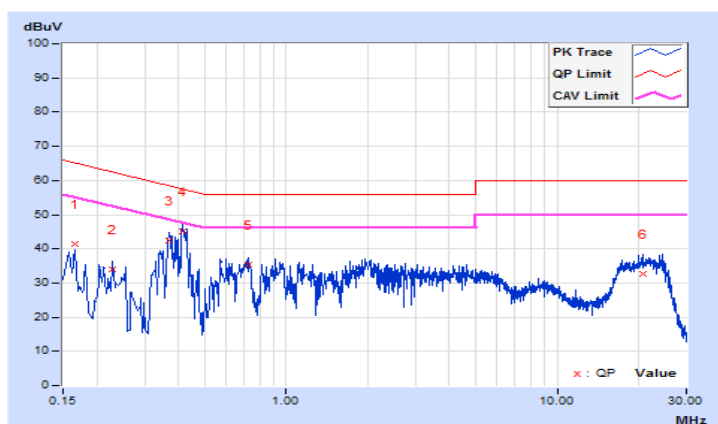


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16569	9.73	31.83	19.19	41.56	28.92	65.17	55.17	-23.61	-26.25
2	0.22820	9.73	24.21	11.36	33.94	21.09	62.51	52.51	-28.57	-31.42
3	0.36913	9.75	32.70	21.33	42.45	31.08	58.52	48.52	-16.07	-17.44
4	0.41197	9.76	35.33	25.25	45.09	35.01	57.61	47.61	-12.52	-12.60
5	0.72084	9.74	25.75	14.69	35.49	24.43	56.00	46.00	-20.51	-21.57
6	20.66968	9.99	22.80	16.58	32.79	26.57	60.00	50.00	-27.21	-23.43

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.

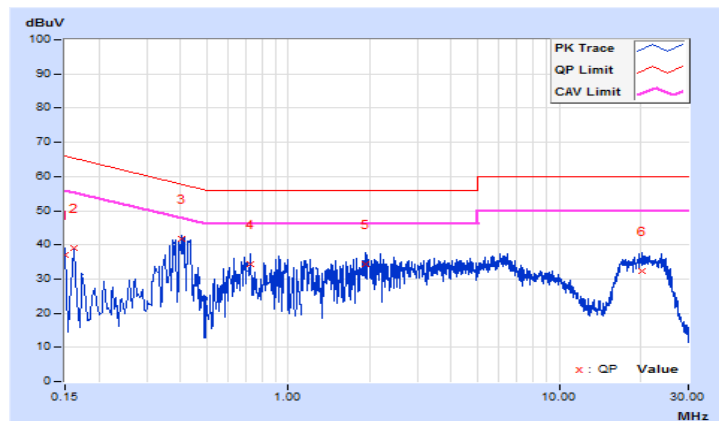


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.72	27.23	6.13	36.95	15.85	66.00	56.00	-29.05	-40.15
2	0.16173	9.73	29.24	13.34	38.97	23.07	65.37	55.37	-26.40	-32.30
3	0.40479	9.76	32.09	21.98	41.85	31.74	57.75	47.75	-15.90	-16.01
4	0.72868	9.76	24.55	11.21	34.31	20.97	56.00	46.00	-21.69	-25.03
5	1.93296	9.76	24.55	14.97	34.31	24.73	56.00	46.00	-21.69	-21.27
6	20.13792	10.13	22.27	15.57	32.40	25.70	60.00	50.00	-27.60	-24.30

Remarks:

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

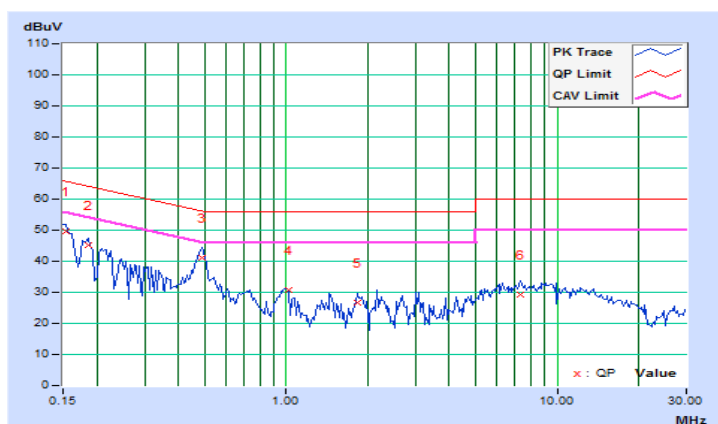


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.67	39.84	28.60	49.51	38.27	65.79	55.79	-16.28	-17.52
2	0.18516	9.67	35.54	24.38	45.21	34.05	64.25	54.25	-19.04	-20.20
3	0.48594	9.66	31.50	24.42	41.16	34.08	56.24	46.24	-15.08	-12.16
4	1.01563	9.65	21.19	16.59	30.84	26.24	56.00	46.00	-25.16	-19.76
5	1.84375	9.68	16.89	11.13	26.57	20.81	56.00	46.00	-29.43	-25.19
6	7.32813	9.80	19.30	12.86	29.10	22.66	60.00	50.00	-30.90	-27.34

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.

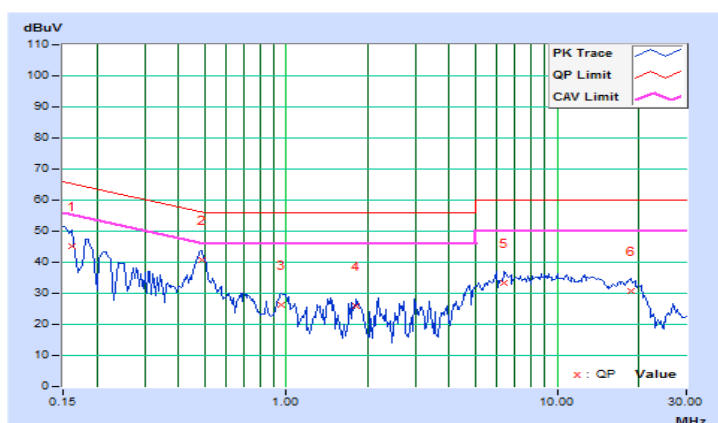


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.68	35.57	19.39	45.25	29.07	65.38	55.38	-20.13	-26.31
2	0.48594	9.67	30.95	24.07	40.62	33.74	56.24	46.24	-15.62	-12.50
3	0.95859	9.65	16.73	10.60	26.38	20.25	56.00	46.00	-29.62	-25.75
4	1.81250	9.67	16.28	10.35	25.95	20.02	56.00	46.00	-30.05	-25.98
5	6.39063	9.78	23.45	17.68	33.23	27.46	60.00	50.00	-26.77	-22.54
6	18.67188	9.99	20.80	15.39	30.79	25.38	60.00	50.00	-29.21	-24.62

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.

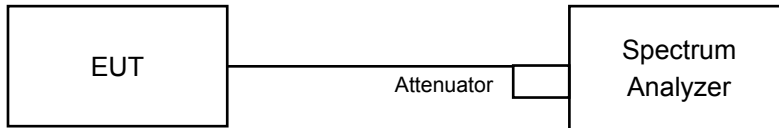


4.3 6dB Bandwidth Measurement

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
		Chain 0	Chain 1		
1	2412	7.63	8.12	0.5	Pass
6	2437	8.14	8.13	0.5	Pass
11	2462	8.13	8.13	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.43	16.44	0.5	Pass
6	2437	16.41	16.38	0.5	Pass
11	2462	16.42	16.42	0.5	Pass

802.11n (HT20)

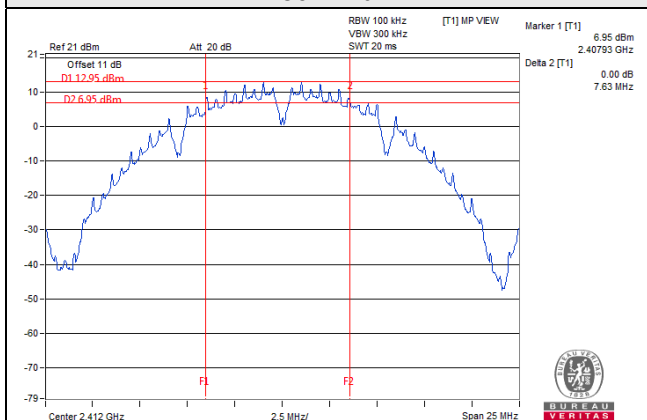
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.65	17.63	0.5	Pass
6	2437	17.64	17.62	0.5	Pass
11	2462	17.66	17.63	0.5	Pass

802.11n (HT40)

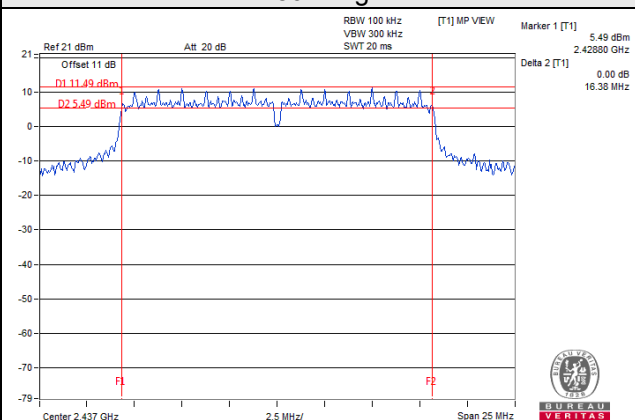
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	36.39	36.12	0.5	Pass
6	2437	36.43	36.17	0.5	Pass
9	2452	36.05	36.43	0.5	Pass

Spectrum Plot of Worst Value

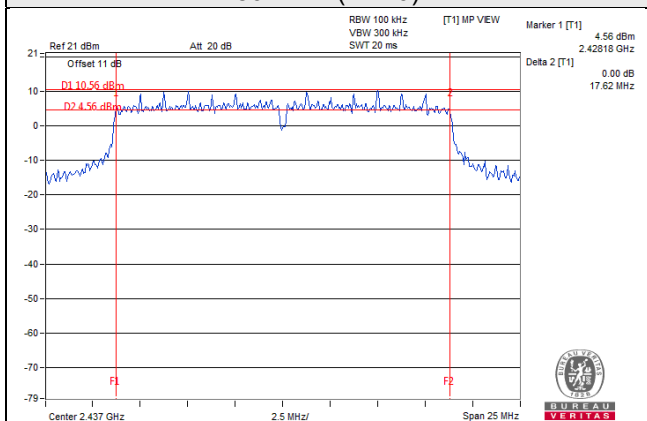
802.11b



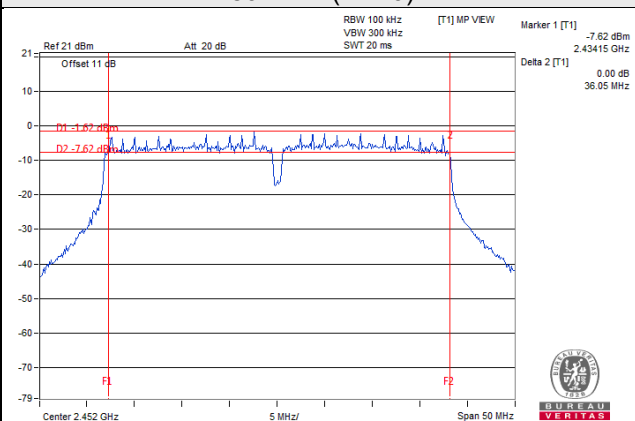
802.11g



802.11n (HT20)



802.11n (HT40)



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

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

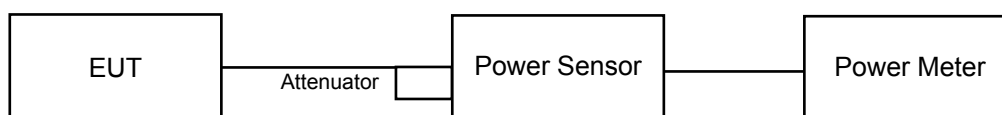
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 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.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as item 4.3.6.

4.4.7 Test Results

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.99	20.82	246.384	23.92	30.00	Pass
6	2437	22.21	21.80	317.697	25.02	30.00	Pass
11	2462	18.88	19.30	162.382	22.11	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.94	14.83	61.598	17.90	30.00	Pass
6	2437	21.96	21.63	302.582	24.81	30.00	Pass
11	2462	13.58	14.21	49.166	16.92	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.81	13.84	48.254	16.84	30.00	Pass
6	2437	20.73	20.67	234.985	23.71	30.00	Pass
11	2462	12.58	12.94	37.792	15.77	30.00	Pass

802.11n (HT40)

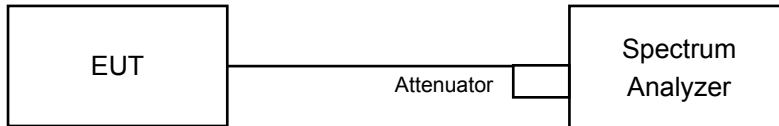
Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	11.97	11.61	30.228	14.80	30.00	Pass
6	2437	14.53	14.15	54.381	17.35	30.00	Pass
9	2452	12.01	12.20	32.481	15.12	30.00	Pass

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

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 Procedure

For Average Power (Duty cycle $\geq 98\%$)

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

For Average Power (Duty cycle $< 98\%$)

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as item 4.3.6

4.5.7 Test Results

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-5.79	3.01	-2.78	8.00	Pass
	6	2437	-5.03	3.01	-2.02	8.00	Pass
	11	2462	-7.93	3.01	-4.92	8.00	Pass
1	1	2412	-6.13	3.01	-3.12	8.00	Pass
	6	2437	-4.41	3.01	-1.40	8.00	Pass
	11	2462	-7.51	3.01	-4.50	8.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $2.82\text{dBi} + 10\log(2) = 5.83\text{dBi} < 6\text{dBi}$, so the power density limit not need to reduce.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-14.94	3.01	0.19	-11.74	8.00	Pass
	6	2437	-7.64	3.01	0.19	-4.44	8.00	Pass
	11	2462	-16.32	3.01	0.19	-13.12	8.00	Pass
1	1	2412	-15.08	3.01	0.19	-11.88	8.00	Pass
	6	2437	-7.93	3.01	0.19	-4.73	8.00	Pass
	11	2462	-15.76	3.01	0.19	-12.56	8.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $2.82\text{dBi} + 10\log(2) = 5.83\text{dBi} < 6\text{dBi}$, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-16.01	3.01	-13.00	8.00	Pass
	6	2437	-8.75	3.01	-5.74	8.00	Pass
	11	2462	-16.72	3.01	-13.71	8.00	Pass
1	1	2412	-15.36	3.01	-12.35	8.00	Pass
	6	2437	-8.33	3.01	-5.32	8.00	Pass
	11	2462	-16.11	3.01	-13.10	8.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $2.82\text{dBi} + 10\log(2) = 5.83\text{dBi} < 6\text{dBi}$, so the power density limit not need to reduce.

802.11n (HT40)

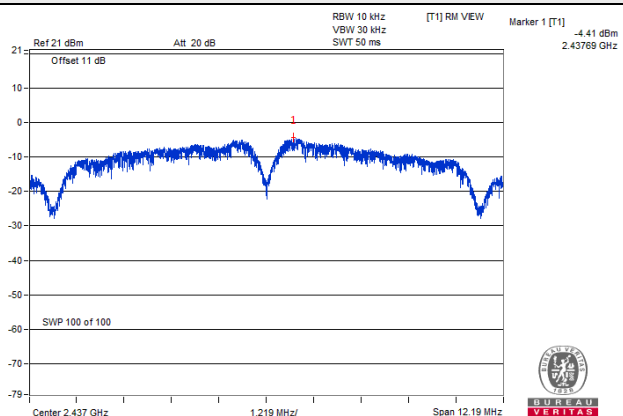
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-20.94	3.01	0.21	-17.72	8.00	Pass
	6	2437	-18.82	3.01	0.21	-15.60	8.00	Pass
	9	2452	-20.99	3.01	0.21	-17.77	8.00	Pass
1	3	2422	-21.52	3.01	0.21	-18.30	8.00	Pass
	6	2437	-18.93	3.01	0.21	-15.71	8.00	Pass
	9	2452	-20.78	3.01	0.21	-17.56	8.00	Pass

Note:

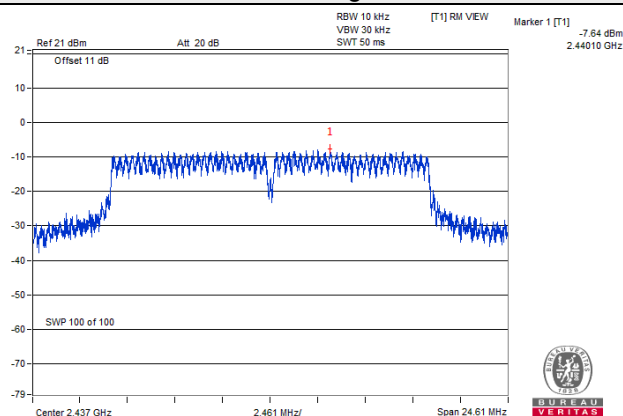
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $2.82\text{dBi} + 10\log(2) = 5.83\text{dBi} < 6\text{dBi}$, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

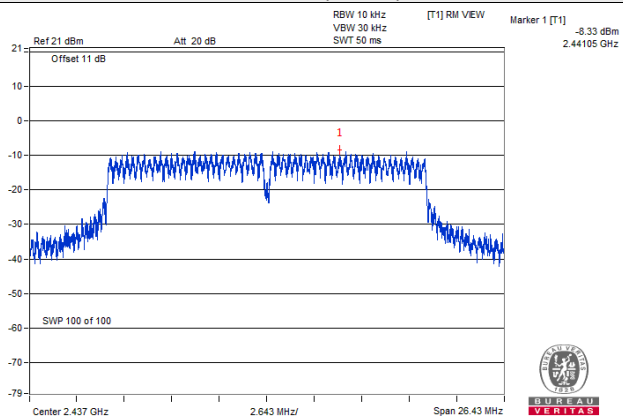
802.11b



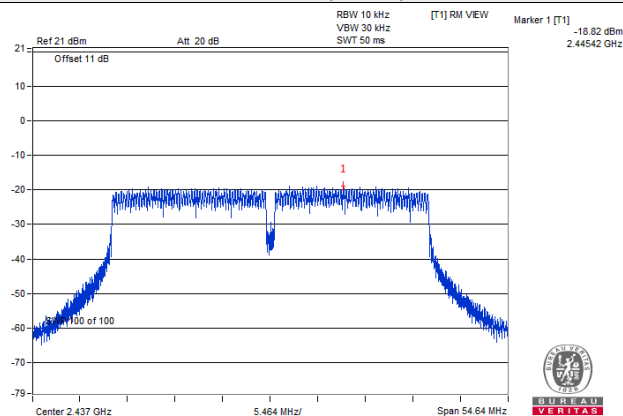
802.11g



802.11n (HT20)



802.11n (HT40)

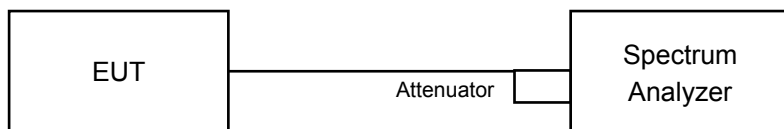


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

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

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

MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW $\geq$ 300 kHz.
- Detector = average.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- Set RBW = 100 kHz.
- Set VBW $\geq$ 300 kHz.
- Detector = average.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as item 4.3.6

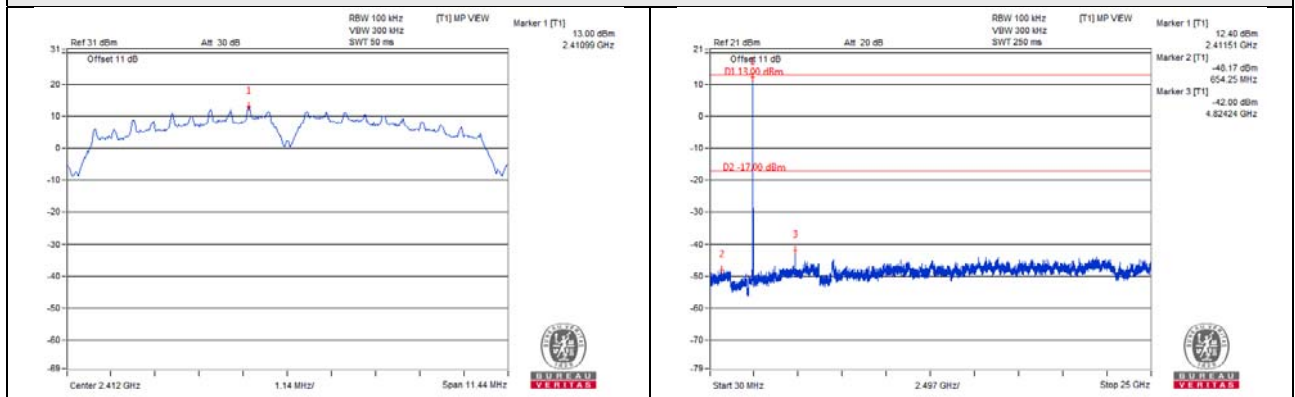
4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

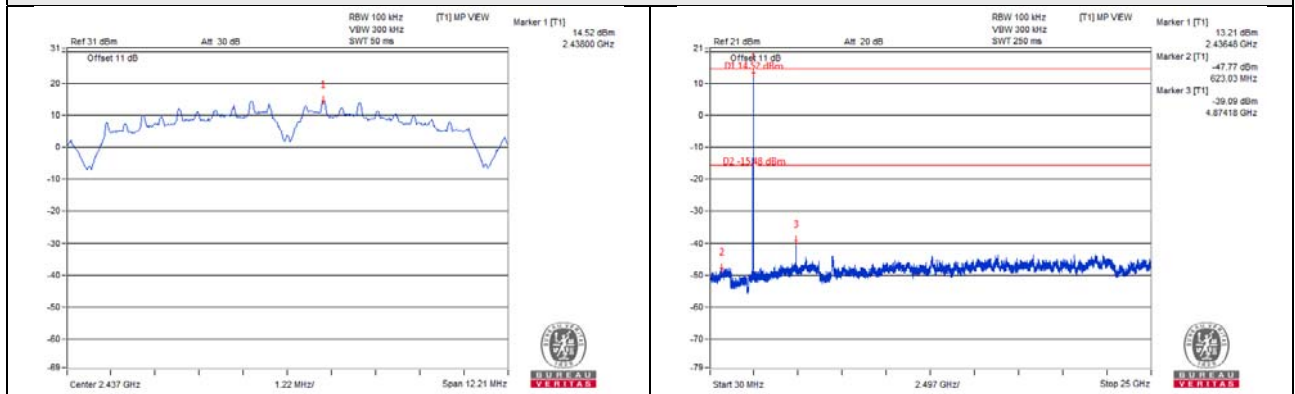
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

802.11b_Chain 0

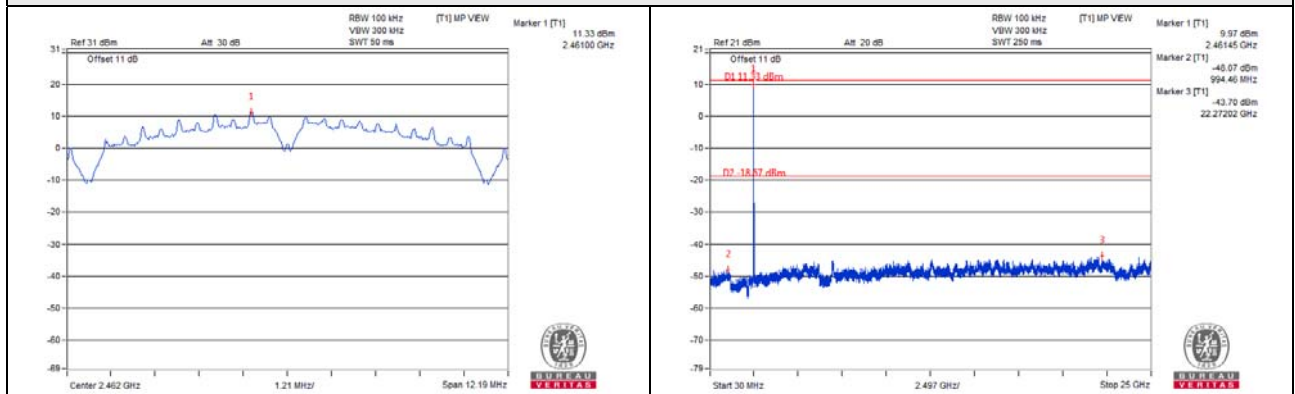
CH 1



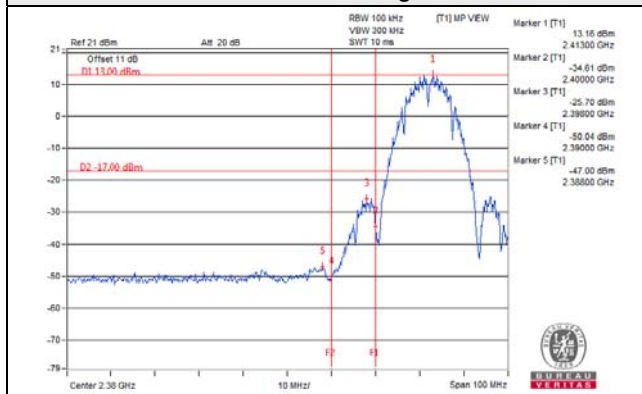
CH 6



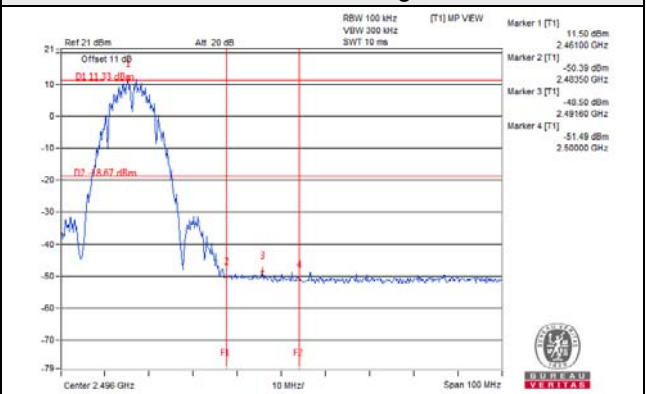
CH 11



CH 1 Band edge

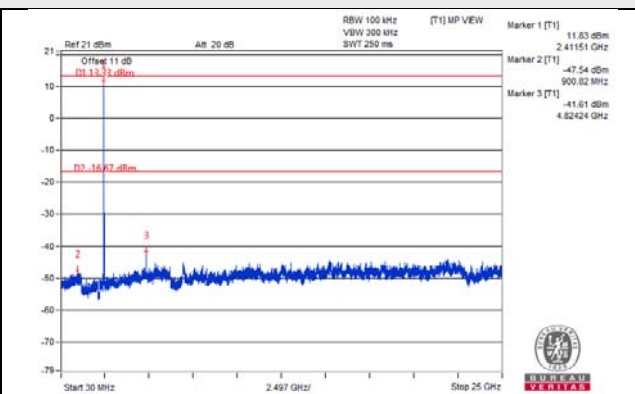
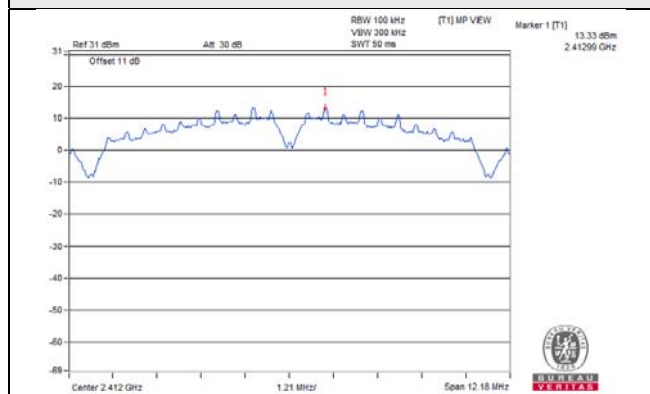


CH 11 Band edge

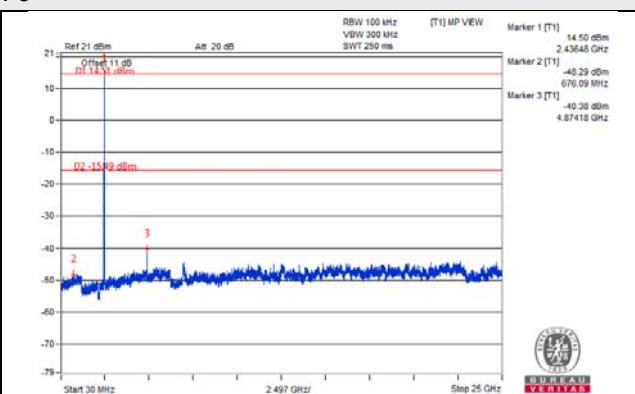
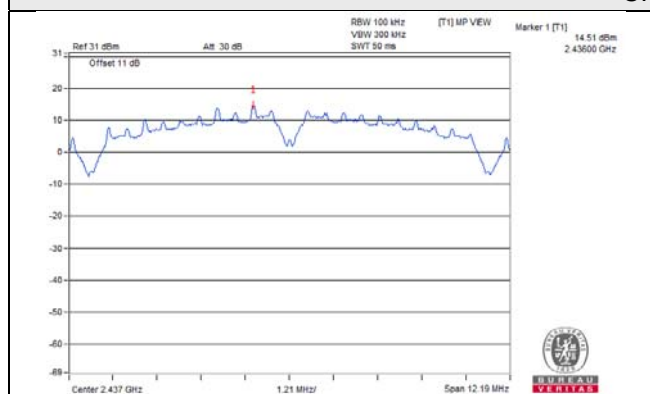


802.11b_Chain 1

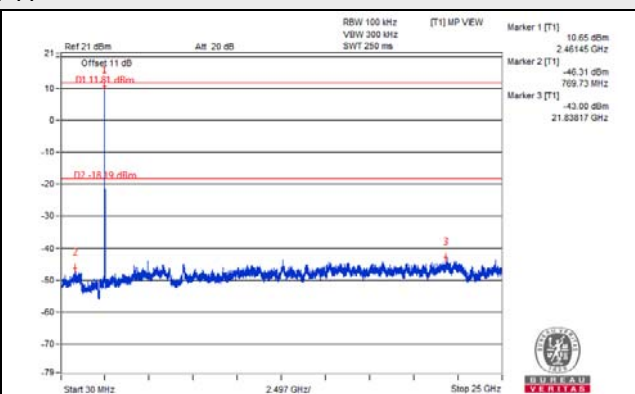
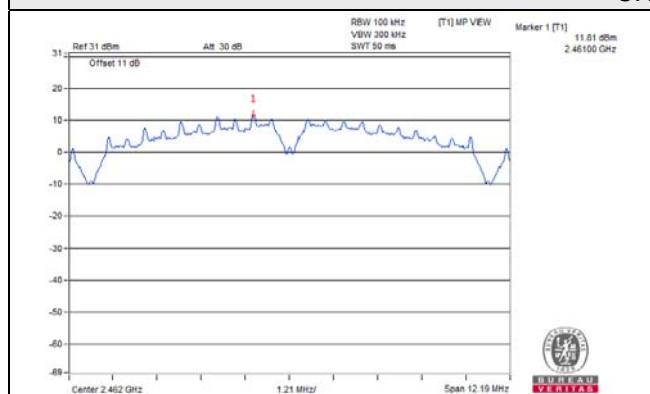
CH 1



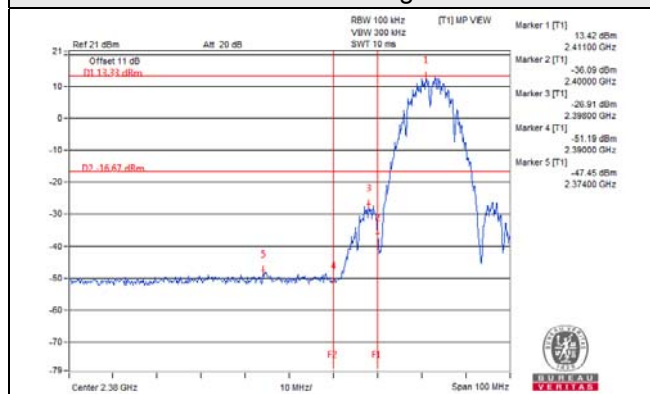
CH 6



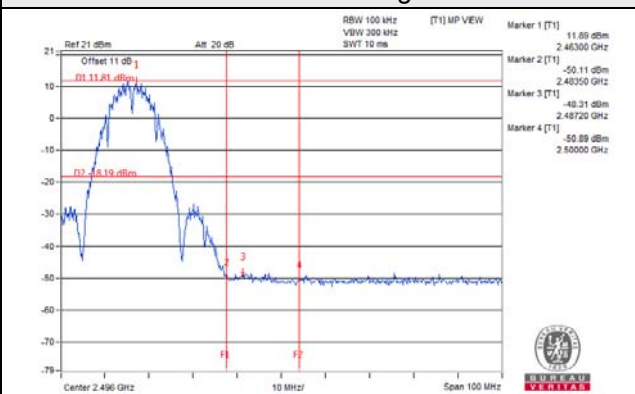
CH 11



CH 1 Band edge

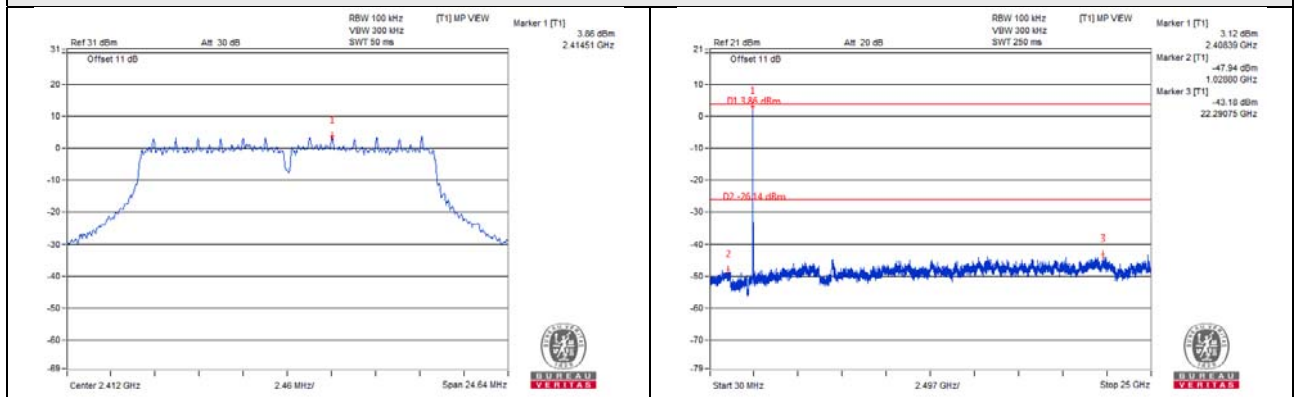


CH 11 Band edge

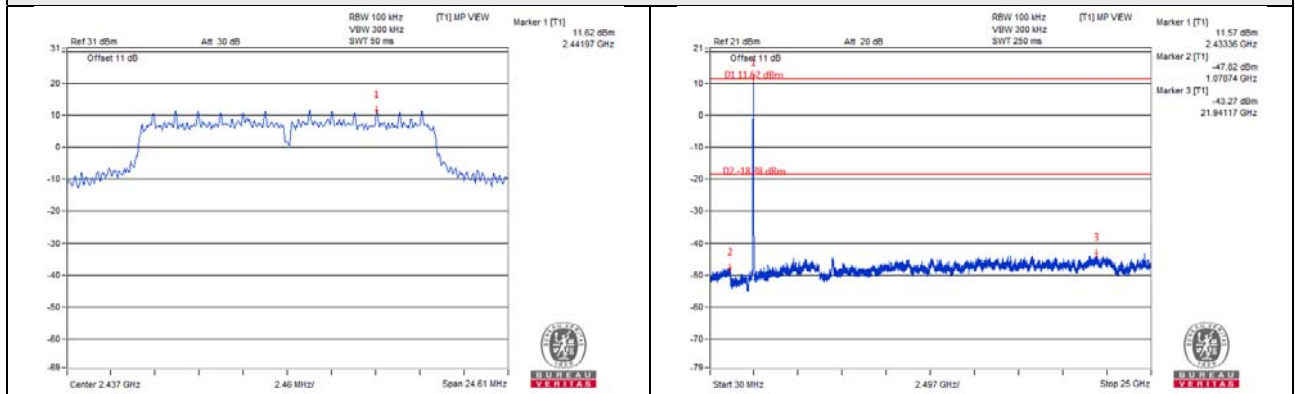


802.11g_Chain 0

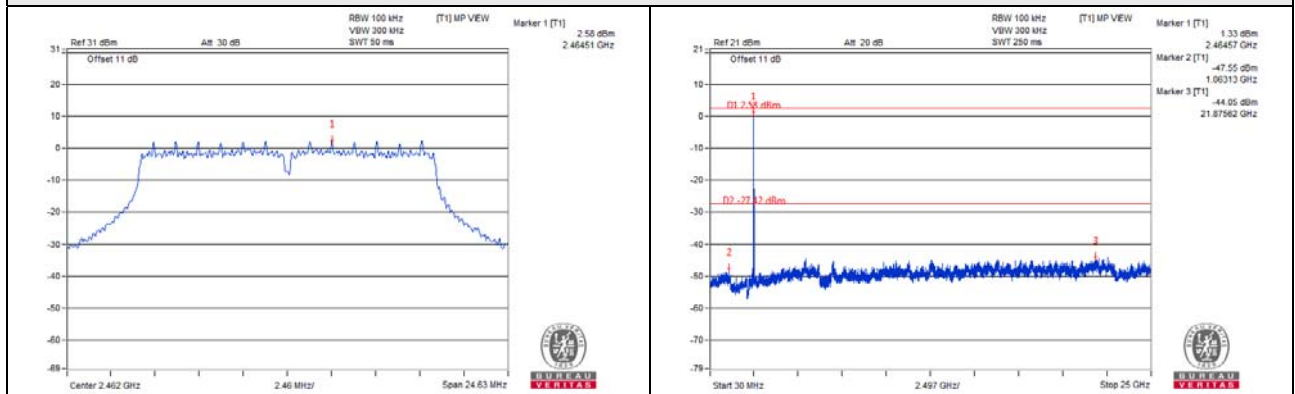
CH 1



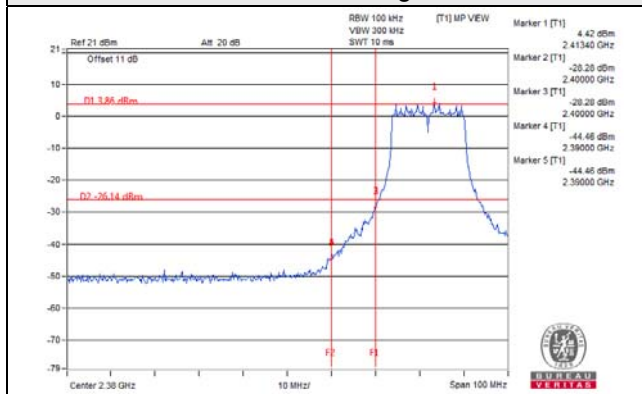
CH 6



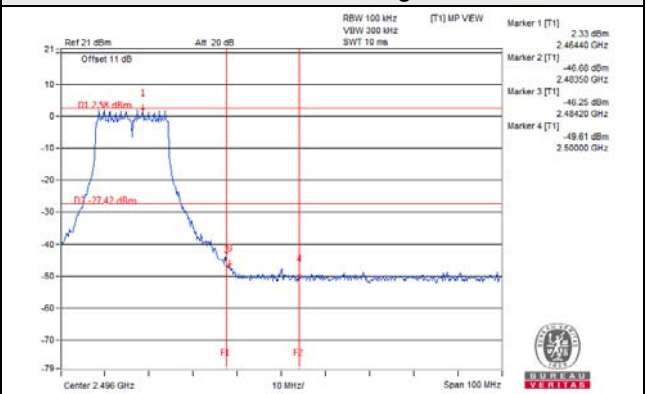
CH 11



CH 1 Band edge

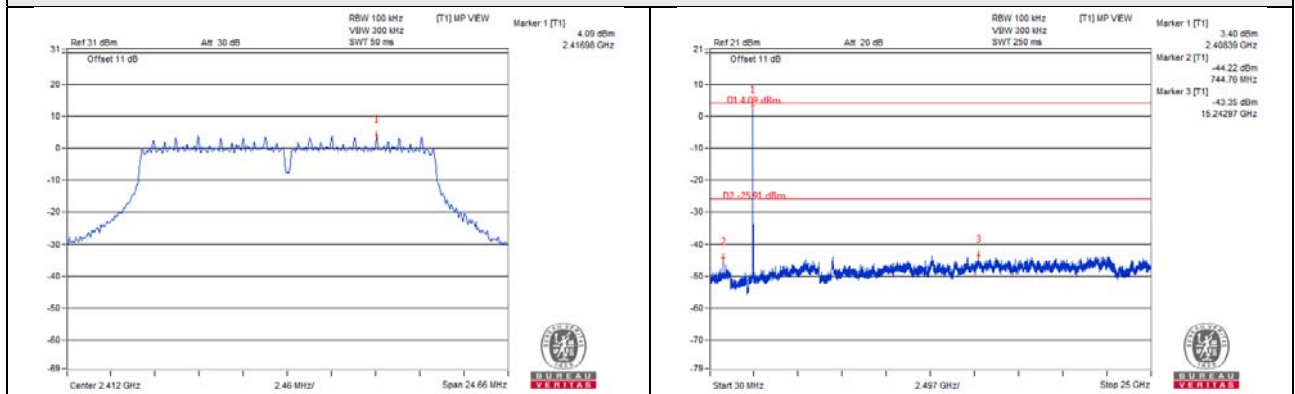


CH 11 Band edge

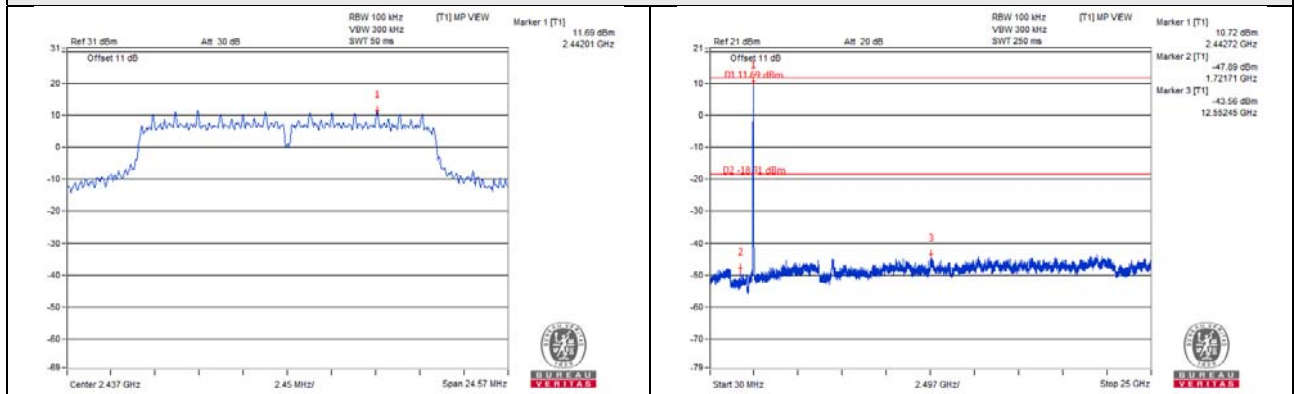


802.11g_Chain 1

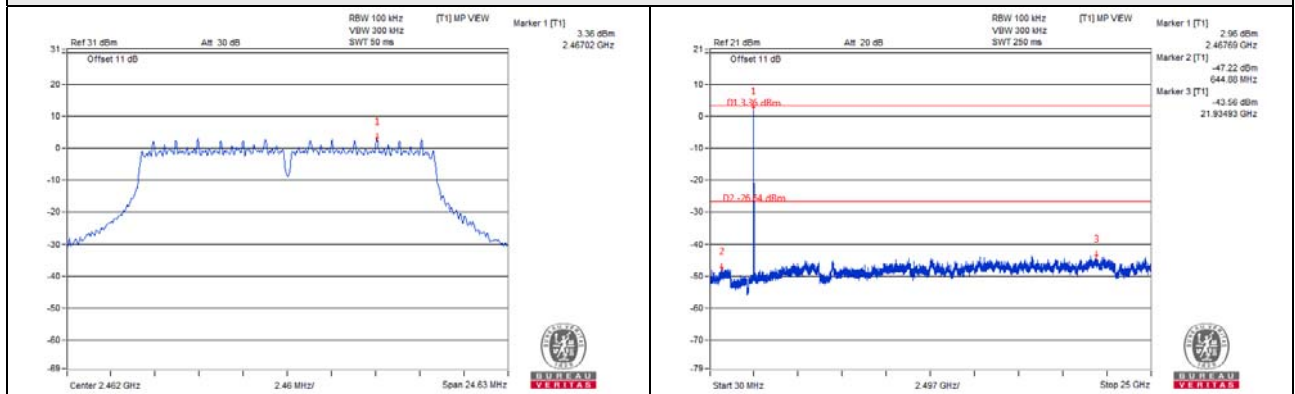
CH 1



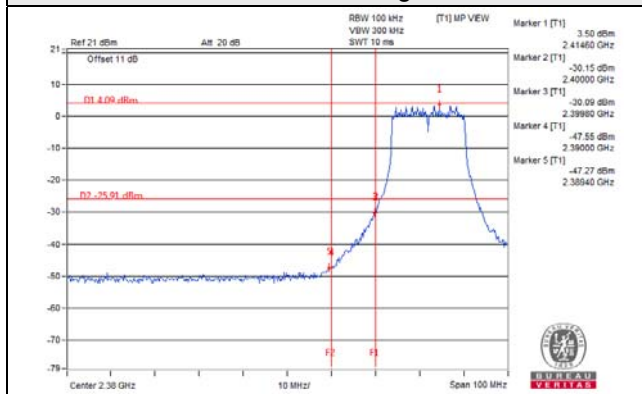
CH 6



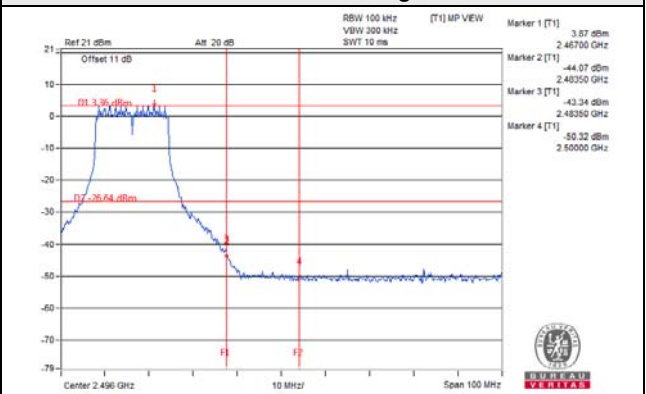
CH 11



CH 1 Band edge

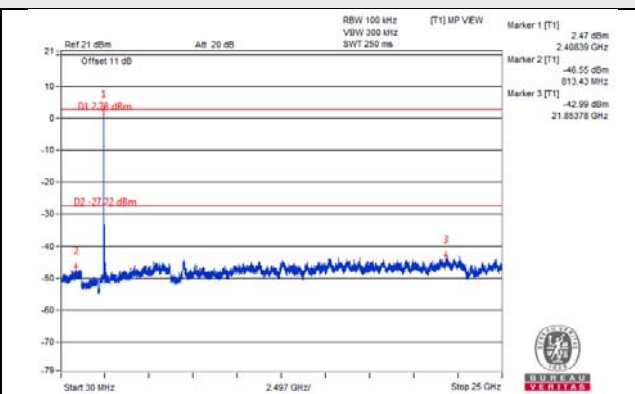
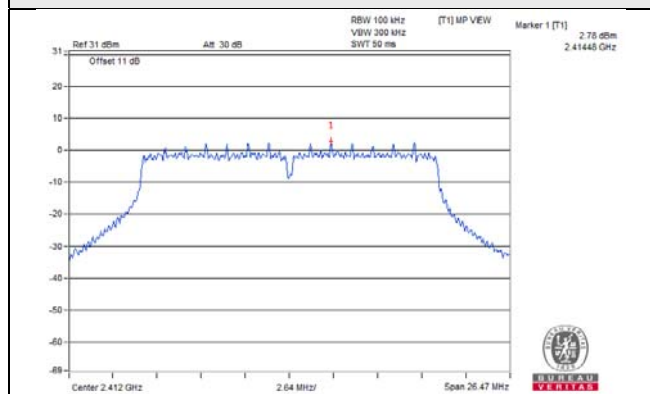


CH 11 Band edge

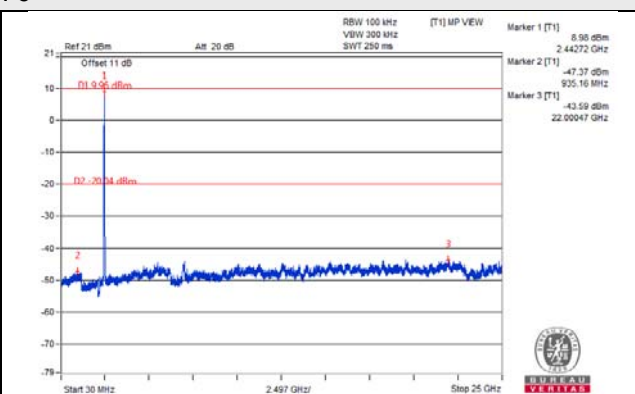
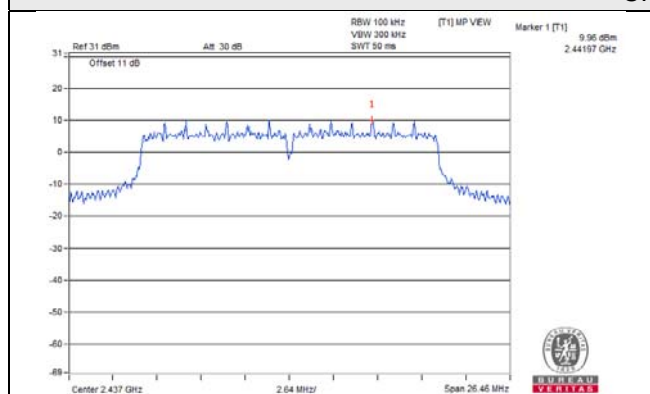


802.11n (HT20)_Chain 0

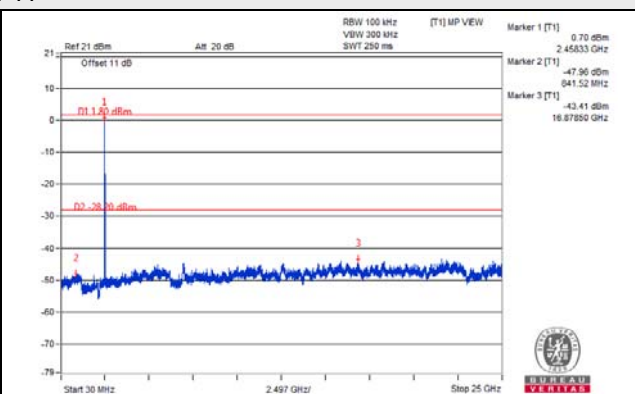
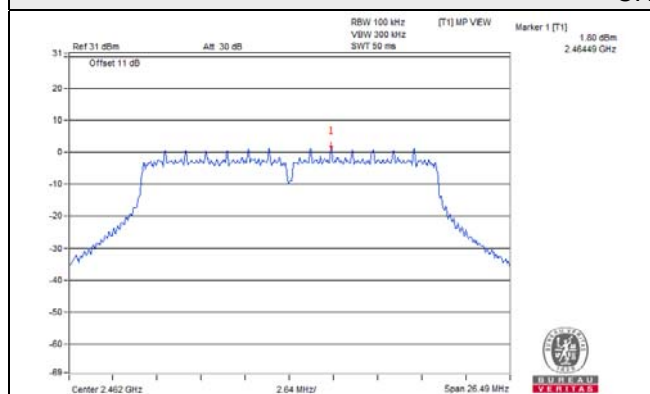
CH 1



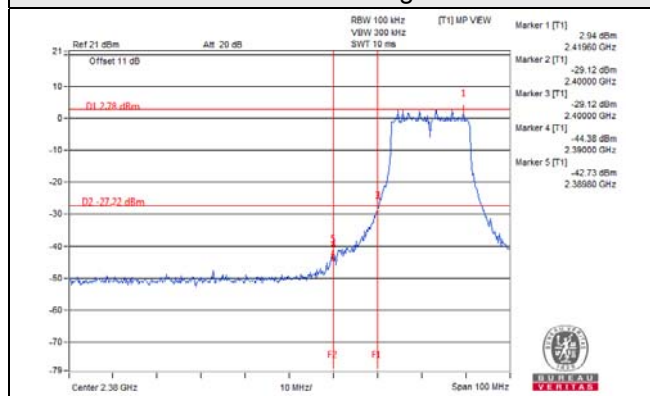
CH 6



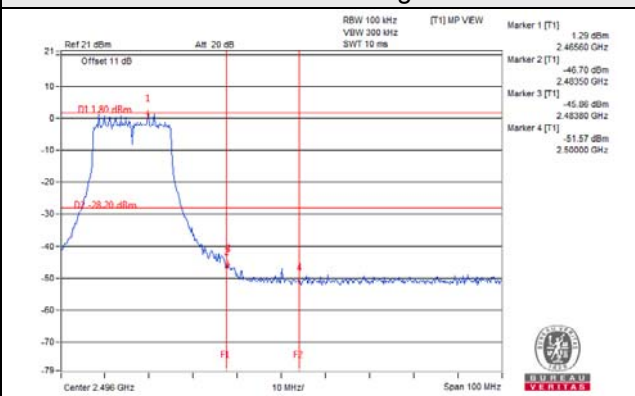
CH 11



CH 1 Band edge

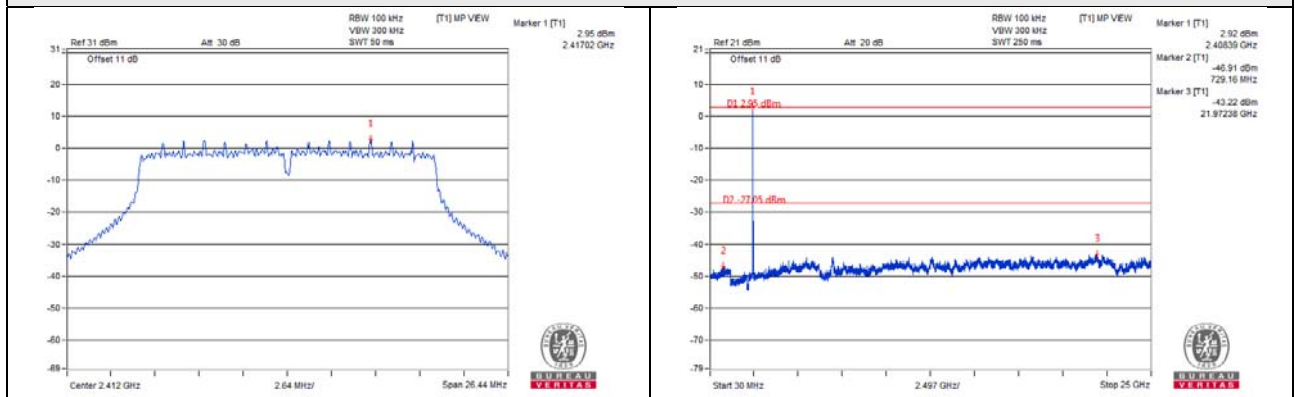


CH 11 Band edge

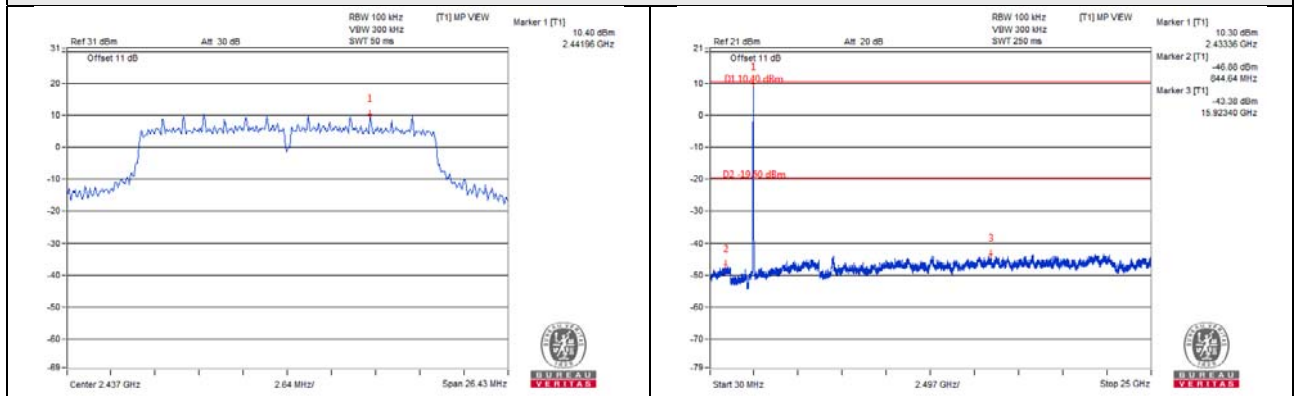


802.11n (HT20)_Chain 1

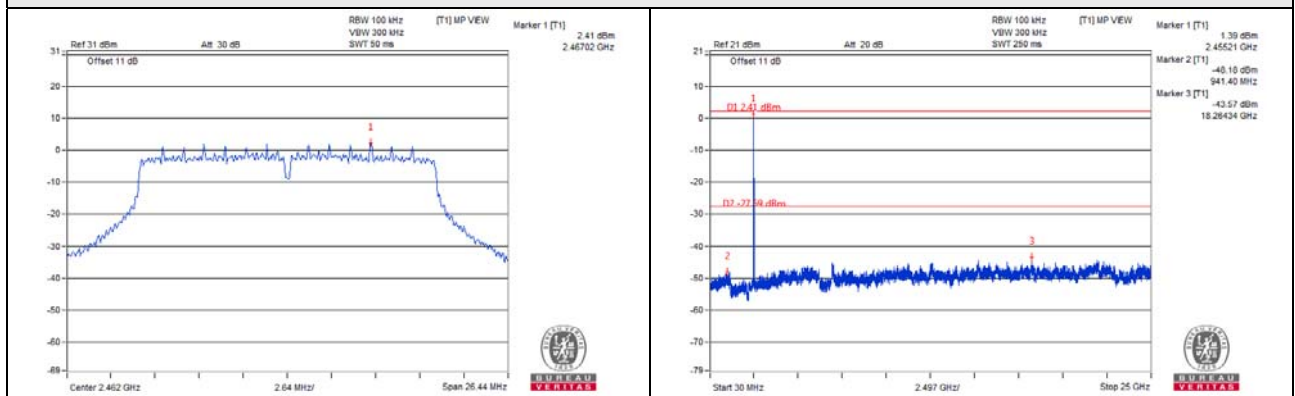
CH 1



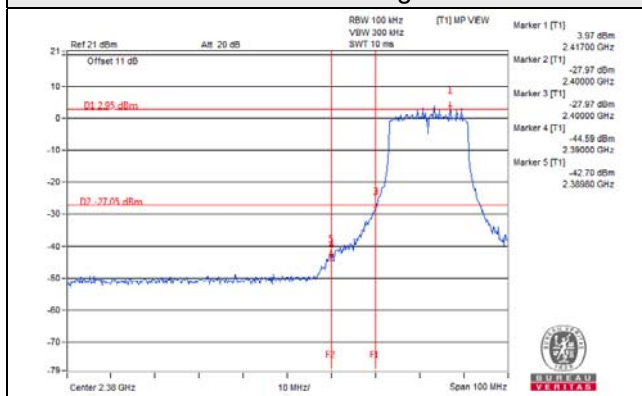
CH 6



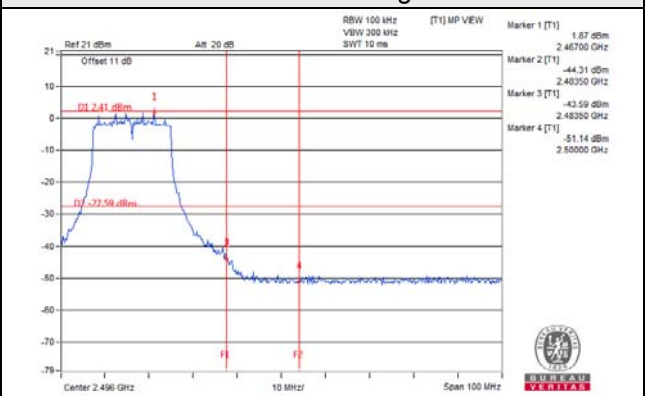
CH 11



CH 1 Band edge

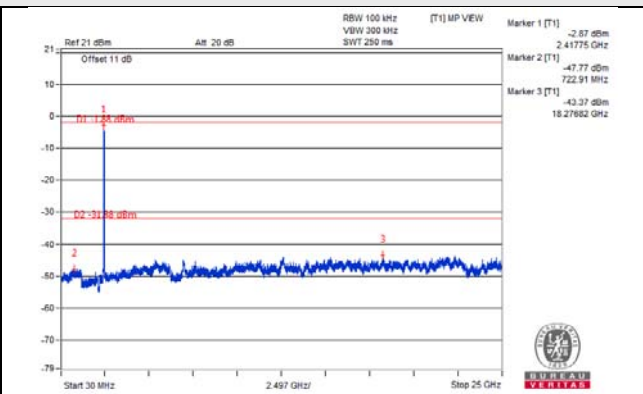
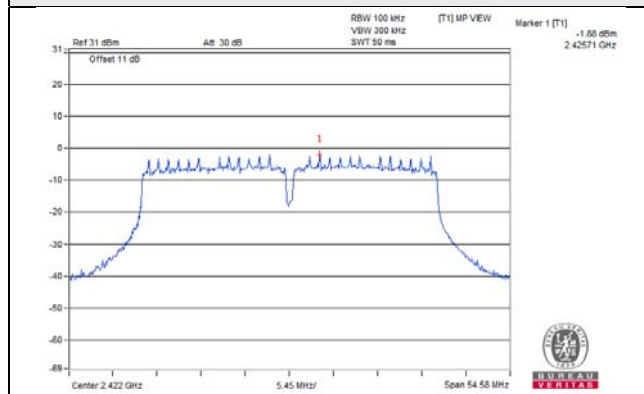


CH 11 Band edge

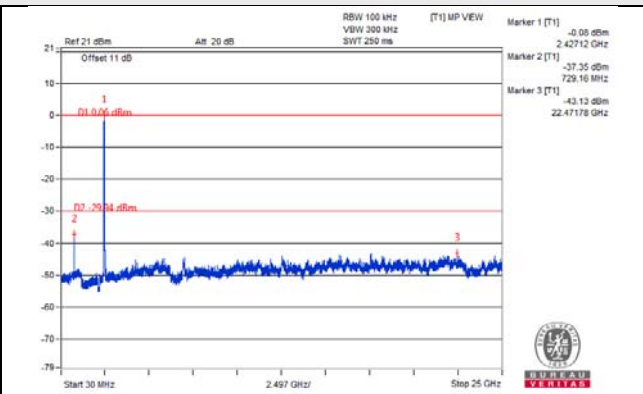
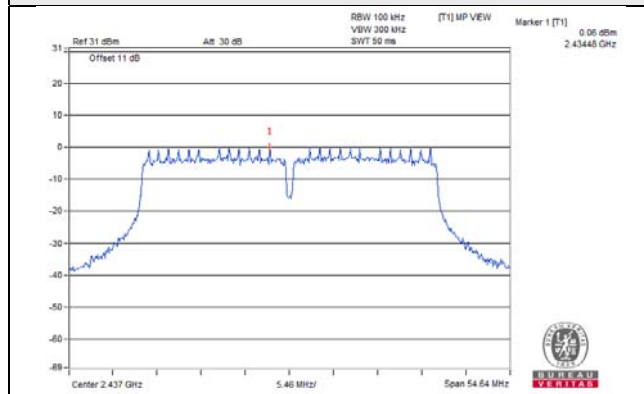


802.11n (HT40)_Chain 0

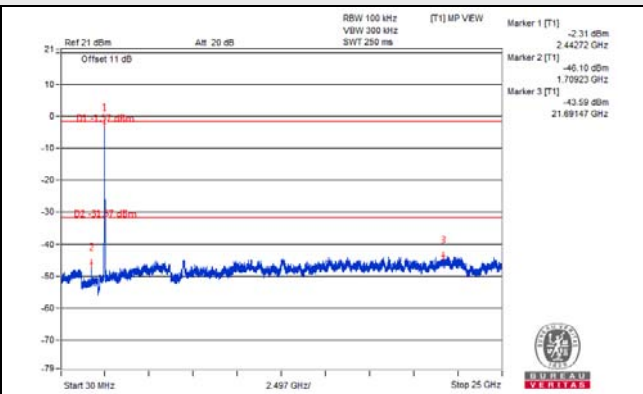
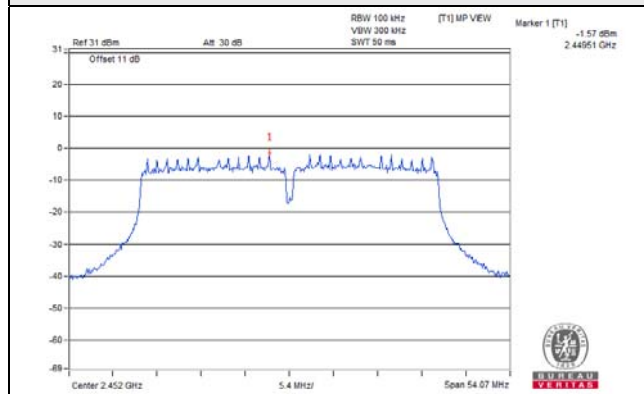
CH 3



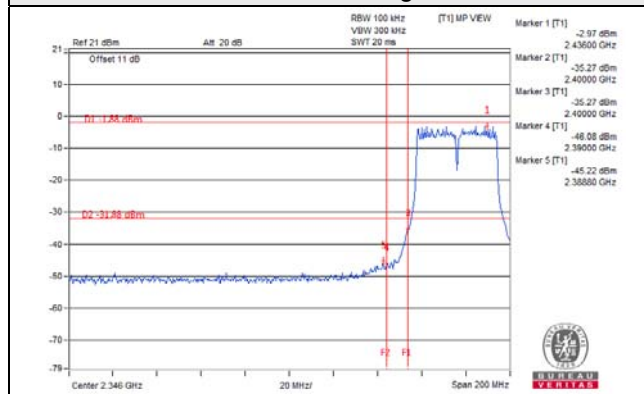
CH 6



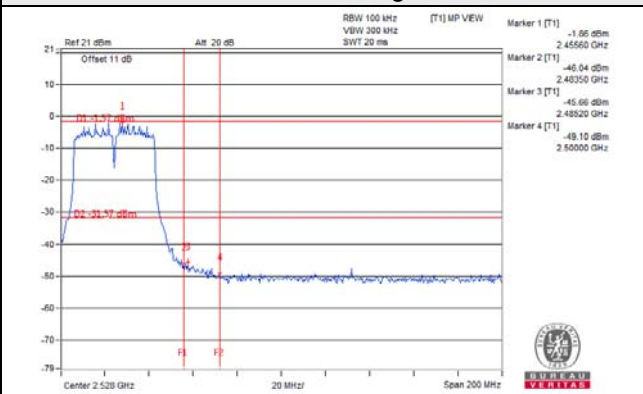
CH 9



CH 3 Band edge

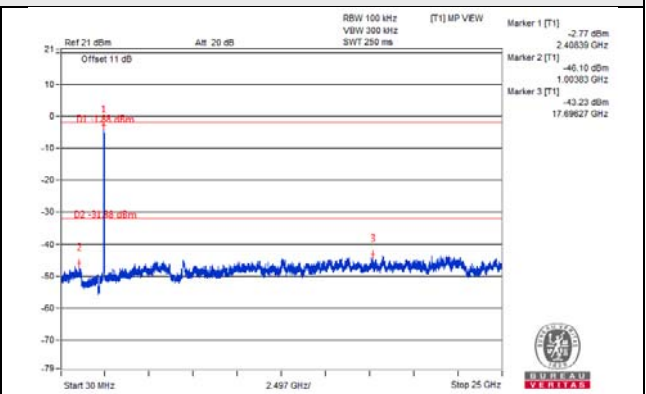
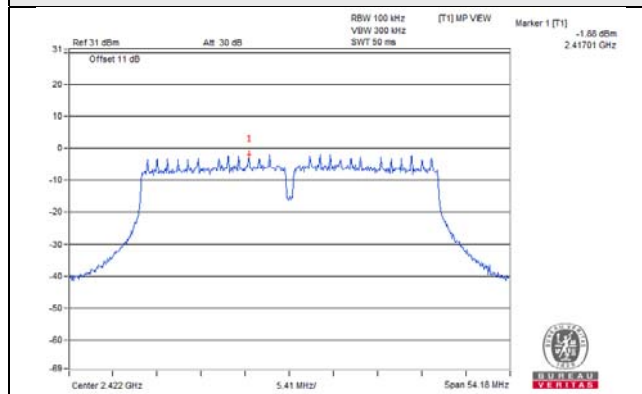


CH 9 Band edge

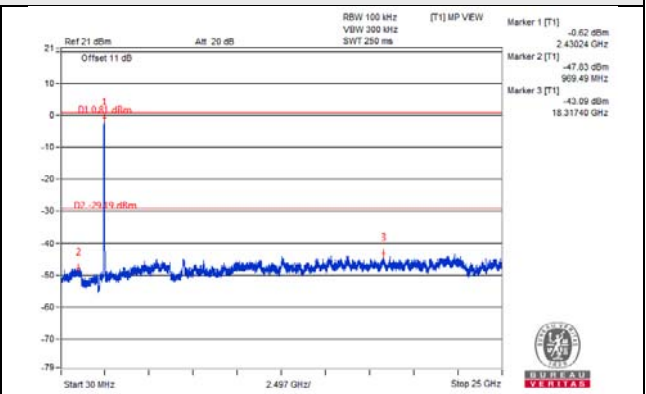
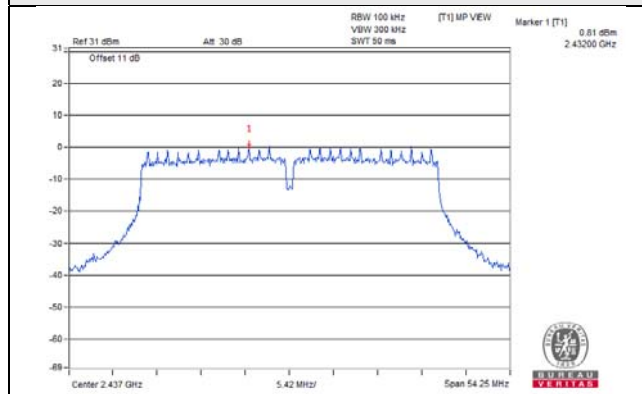


802.11n (HT40)_Chain 1

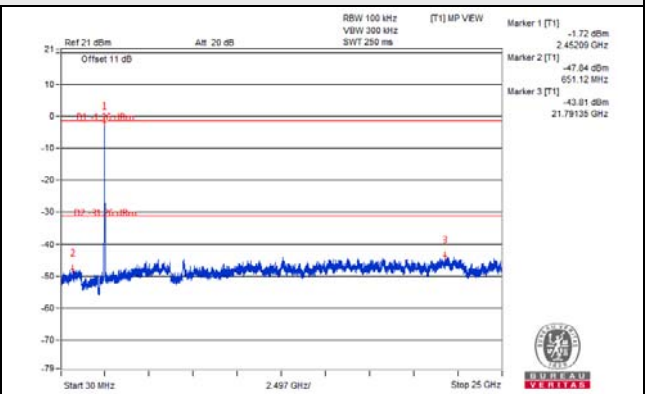
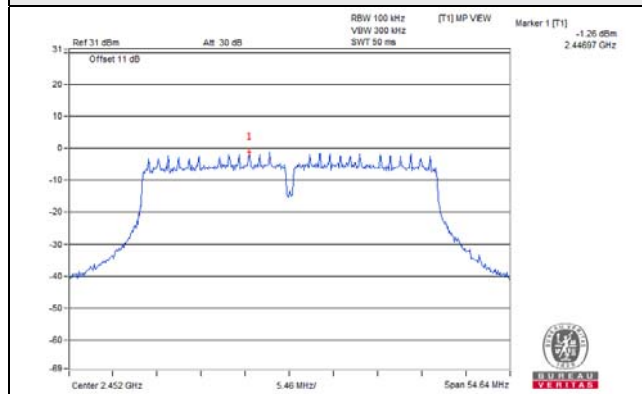
CH 3



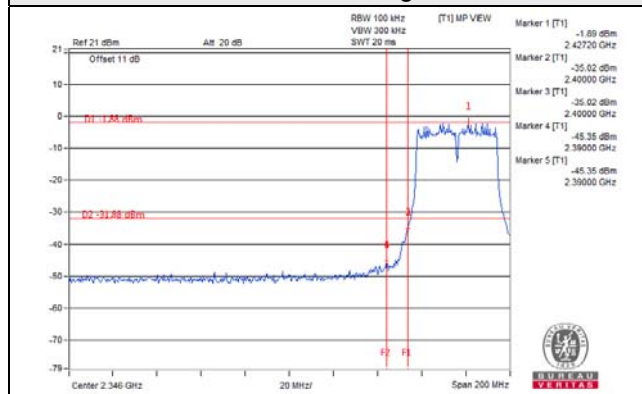
CH 6



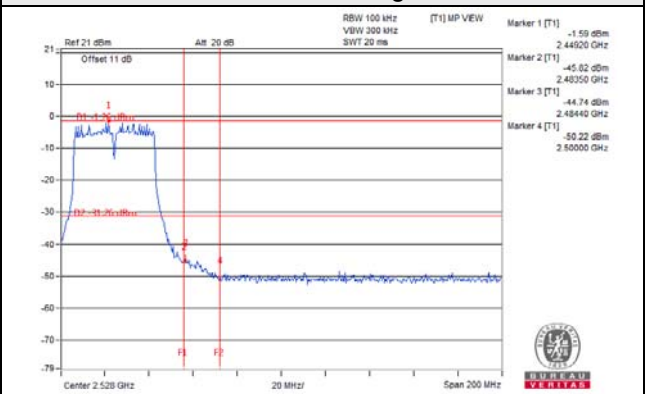
CH 9



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 and approved according to ISO/IEC 17025.

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

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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