FCC Test Report

Report No.:	RF190912E02A
FCC ID:	2AHBN-AP33
Test Model:	AP32, AP32E, AP33
Received Date:	Sep. 26, 2019
Test Date:	Jan. 17 to 22, 2020
Issued Date:	Feb. 19, 2020
Applicant:	Mist Systems, Inc.
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Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
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FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RF190912E02A	Original release.	Feb. 19, 2020

1 Certificate of Conformity

Product: Wi-Fi & BLE Array AP

Brand: Mist

Test Model: AP32, AP32E, AP33

Sample Status: ENGINEERING SAMPLE

Applicant: Mist Systems, Inc.

Test Date: Jan. 17 to 22, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Feb. 19, 2020
Phoenix Huang / Specialist

Approved by : _____ , **Date:** Feb. 19, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -16.83dB at 0.42734MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 2390.00MHz, 2483.50MHz, 2389.30MHz, 4874.00MHz and 7311.00MHz.
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	Antenna connector is Ipex and RPSMA Plug not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.8 dB
Conducted emissions	-	3.1 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.0 dB
	30MHz ~ 1GHz	5.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.1 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wi-Fi & BLE Array AP
Brand	Mist
Test Model	AP32, AP32E, AP33
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	55Vdc from PoE
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT (20/40) mode in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	**2.4GHz:** 2.412 ~ 2.462 GHz **5GHz:** 5.18~ 5.24 GHz, 5.745 ~ 5.825 GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11 802.11n (HT40), VHT40, 802.11ax (HE40): 7 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2
Output Power	**Non-Beamforming Mode:** **For 4TX** **5.18 ~ 5.24GHz:** 493.303 mW **5.745 ~ 5.825GHz:** 886.912 mW **For 3TX** **5.18 ~ 5.24GHz:** 424.571 mW **5.745 ~ 5.825GHz:** 796.304 mW **For 2TX** **2.4GHz:** 381.986 mW **5.18 ~ 5.24GHz:** 394.089 mW **5.745 ~ 5.825GHz:** 502.485 mW **For 1TX** **2.4GHz:** 253.513 mW **5.18 ~ 5.24GHz:** 212.324 mW **5.745 ~ 5.825GHz:** 267.301 mW **Beamforming Mode:** **For 4TX** **5.18 ~ 5.24GHz:** 248.428 mW **5.745 ~ 5.825GHz:** 245.391 mW **For 3TX** **5.18 ~ 5.24GHz:** 329.65 mW **5.745 ~ 5.825GHz:** 329.236 mW **For 2TX** **2.4GHz:** 218.316 mW **5.18 ~ 5.24GHz:** 372.453 mW **5.745 ~ 5.825GHz:** 502.485 mW

Output Power	**For Scanning Radio** **2.4GHz:** 193.642 mW **5.18 ~ 5.24GHz:** 86.896 mW **5.745 ~ 5.825GHz:** 111.429 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. All models are listed as below.

Brand	Model	Difference
Mist	AP32	for marketing request 1) Internal antenna. 2) BT with omnidirectional antenna.
	AP33	for marketing request 1) Internal antenna. 2) BT with directional antenna.
	AP32E	for marketing request 1) External antenna. 2) BT with omnidirectional antenna.
Note: Output power is same for all three models and only antenna configurations are different.		

2. There are WLAN and Bluetooth technology used for the EUT. The EUT has four radios as following table:

Radio 1	**Radio 2**	**Radio 3**	**Radio 4**
WLAN - 2.4GHz	(Scanning Radio) WLAN 2.4GHz + 5GHz	WLAN - 5GHz	Bluetooth

3. Simultaneously transmission condition.

Condition	Technology			
1	WLAN - 2.4GHz	(Scanning Radio) WLAN 2.4GHz + 5GHz	WLAN - 5GHz	Bluetooth
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.				

4. The EUT power needs to be supplied from a PoE adapter (only for test, not for sale), the information is as below table:

Brand	Model No.	Spec.
PowerDsine	PD-9001GR/AC	Input: 100-240Vac, 50/60Hz, 0.67A Output: 55Vdc, 0.6A

5. The antennas provided to the EUT, please refer to the following table:

Model: AP32						
Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
Int Dual Ant 3 (WiFi 5G+BT)	-	-	5 6	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
Int WiFi Dual Ant 1	-	-	4.5 5.4	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
Int WiFi Dual Ant 0	-	-	4.6 5.7	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
Int WiFi 5G Ant 2	-	-	5.8	5.15~5.85GHz	PIFA	Ipex
Scanning Ant	-	-	5 6	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex

Model: AP32E						
Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
Ext WiFi Dual Ant (2.4+5G)	AccelTex	ATS-OO-245-46-6RPSP-36	4 6	2.4~2.4835GHz 5.15~5.85GHz	omnidirectional	RPSMA Plug
Ext WiFi Dual Ant (2.4+5G)			4 6	2.4~2.4835GHz 5.15~5.85GHz	omnidirectional	RPSMA Plug
Ext WiFi Dual Ant (5G)			4 6	2.4~2.4835GHz 5.15~5.85GHz	omnidirectional	RPSMA Plug
Ext WiFi Dual Ant (5G)			4 6	2.4~2.4835GHz 5.15~5.85GHz	omnidirectional	RPSMA Plug
Ext WiFi Dual Ant (Scanning)			4 6	2.4~2.4835GHz (Scanning) 5.15~5.85GHz (Scanning)	omnidirectional	RPSMA Plug
Int Scanning Ant	-	-	5 6	2.4~2.4835GHz (Scanning) 5.15~5.85GHz (Scanning)	PIFA	Ipex
Int BT Ant	-	-	5	2.4~2.4835GHz	PIFA	Ipex
Model: AP33						
Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
Int WiFi Dual Ant 0	-	-	3.7 6	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
Int WiFi Dual Ant 1	-	-	4.6 6	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
Int WiFi 5G Ant 2	-	-	6	5.15~5.85GHz	PIFA	Ipex
Int WiFi 5G Ant 3	-	-	5.9	5.15~5.85GHz	PIFA	Ipex
Scanning Ant	-	-	5 6	2.4~2.4835GHz 5.15~5.85GHz	PIFA	Ipex
BT Slot_Direct Antenna	-	-	6	2.402~2.480GHz	Slot_Direct	Ipex
BT Array Antenna	-	-	Beam 1 :3.9 Beam 2 :3.9 Beam 3 :4.7 Beam 4 :4.4 Beam 5 :4.8 Beam 6 :5.1 Beam 7 :5.1 Beam 8 :4.2	2.402~2.480GHz	Array Antenna	Ipex
Note: The max. antenna gain was selected for the final test of Antenna Port Conducted test items.						

6. The EUT incorporates a MIMO function.

MODULATION MODE	Radio 1 - 2.4GHz Band		Radio 2 - 2.4GHz Band	
	TX & RX CONFIGURATION		TX & RX CONFIGURATION	
802.11b	2TX	2RX	1TX	1RX
802.11g	2TX	2RX	1TX	1RX
802.11n (HT20)	2TX	2RX	1TX	1RX
802.11n (HT40)	2TX	2RX	1TX	1RX
VHT20	2TX	2RX	1TX	1RX
VHT40	2TX	2RX	1TX	1RX
802.11ax (HE20)	2TX	2RX	1TX	1RX
802.11ax (HE40)	2TX	2RX	1TX	1RX
MODULATION MODE	**Radio 3 - 5GHz Band**		**Radio 2 - 5GHz Band**	
	TX & RX CONFIGURATION		**TX & RX CONFIGURATION**	
802.11a	4TX	4RX	1TX	1RX
802.11n (HT20)	4TX	4RX	1TX	1RX
802.11n (HT40)	4TX	4RX	1TX	1RX
802.11ac (VHT20)	4TX	4RX	1TX	1RX
802.11ac (VHT40)	4TX	4RX	1TX	1RX
802.11ac (VHT80)	4TX	4RX	1TX	1RX
802.11ax (HE20)	4TX	4RX	1TX	1RX
802.11ax (HE40)	4TX	4RX	1TX	1RX
802.11ax (HE80)	4TX	4RX	1TX	1RX

Note:
1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. The EUT support Beamforming and non-beamforming mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), VHT mode for 20MHz (40MHz) and 802.11ax mode for 20MHz (40MHz), therefore the manufacturer will control the power for 802.11n/VHT mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)

7. The EUT was pre-tested under the following modes:

➢ **For Radiated Emission (Above 1GHz) test**

EUT Model No.: AP32					
Pre-test Mode	Test item	Mode	Polarity	Transmitter Chain	Remark
1	RSE above 1GHz	1TX	X-Y	0	-
2	RSE above 1GHz	1TX	X-Y	1	-
3	RSE above 1GHz	1TX	X-Z	0	-
4	**RSE above 1GHz**	**1TX**	**Y-Z**	**0**	**Worst-Test Results Mode 2**
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	2TX	X-Y		-
2	RSE above 1GHz	2TX	X-Z		-
3	**RSE above 1GHz**	**2TX**	**Y-Z**		**Worst-Test Results Mode 1**
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	Scanning Radio	X-Y		-
2	RSE above 1GHz	Scanning Radio	X-Z		-
3	**RSE above 1GHz**	**Scanning Radio**	**Y-Z**		**Worst-Test Results Mode 3**

EUT Model No.: AP32E					
Pre-test Mode	Test item	Mode	Polarity	Transmitter Chain	Remark
1	RSE above 1GHz	1TX	X-Y	0	-
2	RSE above 1GHz	1TX	X-Y	1	-
3	**RSE above 1GHz**	**1TX**	**X-Z**	**0**	**Worst-Test Results Mode 5**
4	RSE above 1GHz	1TX	Y-Z	0	-
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	2TX	X-Y		-
2	**RSE above 1GHz**	**2TX**	**X-Z**		**Worst-Test Results Mode 4**
3	RSE above 1GHz	2TX	Y-Z		-
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	Scanning Radio	X-Y		-
2	**RSE above 1GHz**	**Scanning Radio**	**X-Z**		**Worst-Test Results Mode 6**
3	RSE above 1GHz	Scanning Radio	Y-Z		-
EUT Model No.: AP33					
Pre-test Mode	Test item	Mode	Polarity	Transmitter Chain	Remark
1	RSE above 1GHz	1TX	X-Y	0	-
2	RSE above 1GHz	1TX	X-Y	1	-
3	RSE above 1GHz	1TX	X-Z	0	-
4	**RSE above 1GHz**	**1TX**	**Y-Z**	**0**	**Worst-Test Results Mode 8**
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	2TX	X-Y		-
2	RSE above 1GHz	2TX	X-Z		-
3	**RSE above 1GHz**	**2TX**	**Y-Z**		**Worst-Test Results Mode 7**
Pre-test Mode	Test item	Mode	Polarity		Remark
1	RSE above 1GHz	Scanning Radio	X-Y		-
2	RSE above 1GHz	Scanning Radio	X-Z		-
3	**RSE above 1GHz**	**Scanning Radio**	**Y-Z**		**Worst-Test Results Mode 9**

➢ **For Radiated Emission (Below 1GHz) test**

Pre-test Mode	Test item	Model No.	Polarity	Remark
1	**RSE below 1GHz**	**AP33**	**X-Z**	**Worst-Test Results Mode 7**
2	RSE below 1GHz	AP32	X-Z	-
3	RSE below 1GHz	AP33	X-Y	-
4	RSE below 1GHz	AP33	Y-Z	-
5	RSE below 1GHz	AP32E	X-Y	-
6	RSE below 1GHz	AP32E	X-Z	-
7	**RSE below 1GHz**	**AP32E**	**Y-Z**	**Worst-Test Results Mode 4**

➢ **For AC Power Conducted Emission test**

Pre-test Mode	Test item	Model No.	Remark
1	**AC Power Conducted**	**AP32**	**Worst-Test Results Mode 1**
2	AC Power Conducted	AP32E	**-**
3	AC Power Conducted	AP33	**-**

8. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

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

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

7 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40):

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
1	√	-	√	√	Model: AP32 with 2TX
2	√	-	-	√	Model: AP32 with 1TX
3	√	-	-	√	Model: AP32 with Scanning Radio
4	√	√	-	-	Model: AP32E with 2TX
5	√	-	-	-	Model: AP32E with 1TX
6	√	√	-	-	Model: AP32E with Scanning Radio
7	√	√	-	-	Model: AP33 with 2TX
8	√	-	-	-	Model: AP33 with 1TX
9	√	√	-	-	Model: AP33 with Scanning Radio

Where **RE≥1G:** Radiated Emission above 1GHz & Bandedge Measurement **RE<1G:** Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

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.

Non-Beamforming Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1Mb/s
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6Mb/s
802.11ax (HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0
802.11ax (HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0

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.

Non-Beamforming Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 11	6	DSSS	DBPSK	1Mb/s

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.

Non-Beamforming Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 11	6	DSSS	DBPSK	1Mb/s

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.

Non-Beamforming Mode					
MODE	**AVAILABLE CHANNEL**	**TESTED CHANNEL**	**MODULATION TECHNOLOGY**	**MODULATION TYPE**	**Data Rate Parameter**
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1Mb/s
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6Mb/s
VHT20 (output power only)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
VHT40 (output power only)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
802.11ax (HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0
802.11ax (HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0
Beamforming Mode (output power only)					
MODE	**AVAILABLE CHANNEL**	**TESTED CHANNEL**	**MODULATION TECHNOLOGY**	**MODULATION TYPE**	**Data Rate Parameter**
VHT20	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
VHT40	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
802.11ax (HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0
802.11ax (HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0

Test Condition:

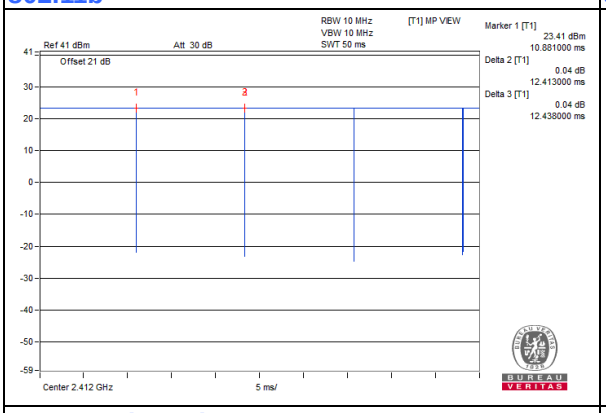
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (System)	TESTED BY
RE≥1G	23deg. C, 67%RH	120Vac, 60Hz	Kevin Ko
RE<1G	22deg. C, 68%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 75%RH	120Vac, 60Hz	Kevin Ko
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin

3.3 Duty Cycle of Test Signal

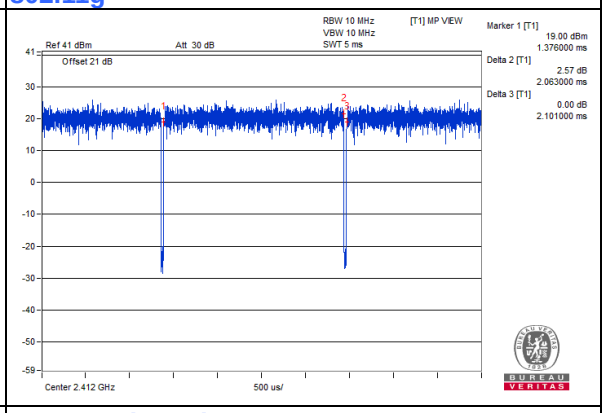
If duty cycle of test signal is ≥ 98 %, duty factor is not required.
If duty cycle of test signal is < 98%, duty factor shall be considered.

802.11b: Duty cycle = 12.413 ms/12.438 ms = 0.998
802.11g: Duty cycle = 2.063 ms/2.101 ms = 0.982
802.11ax (HE20): Duty cycle = 1.487 ms/1.522 ms = 0.977, Duty factor = 10 * log (1/Duty cycle) = 0.1 dB
802.11ax (HE40): Duty cycle = 0.77 ms/0.811 ms = 0.949, Duty factor = 10 * log (1/Duty cycle) = 0.23 dB

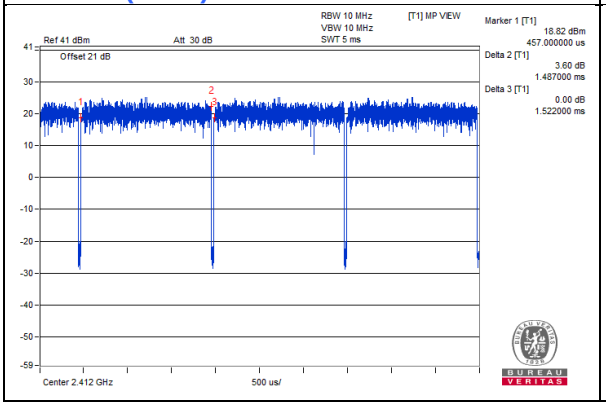
802.11b



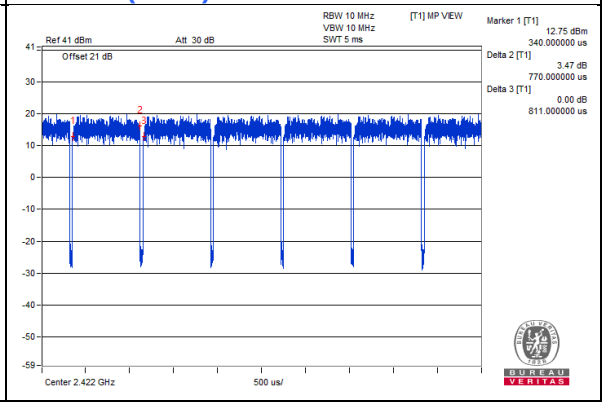
802.11g



802.11ax (HE20)



802.11ax (HE40)



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.	Laptop	DELL	E5430	HYV4VY1	FCC DoC	Provided by Lab
B.	Laptop	DELL	E6420	B92T3R1	FCC DoC	Provided by Lab
C.	PoE Adapter	PowerDsine	PD-9001GR/AC	NA	NA	Supplied by client
D.	Ipod	Apple	MC749TA/A	CC4DN25WDFDM	NA	Provided by Lab

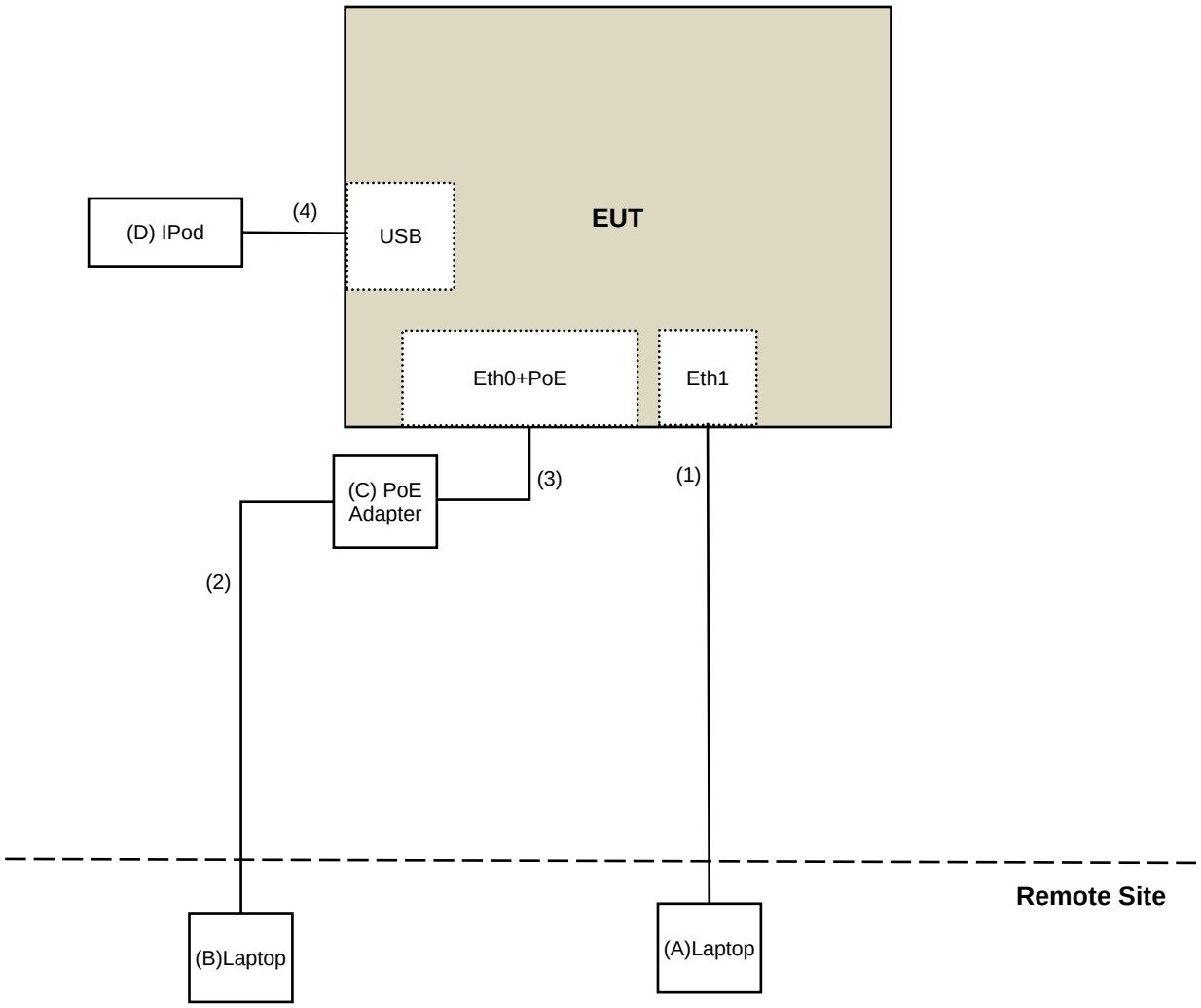
Note:

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

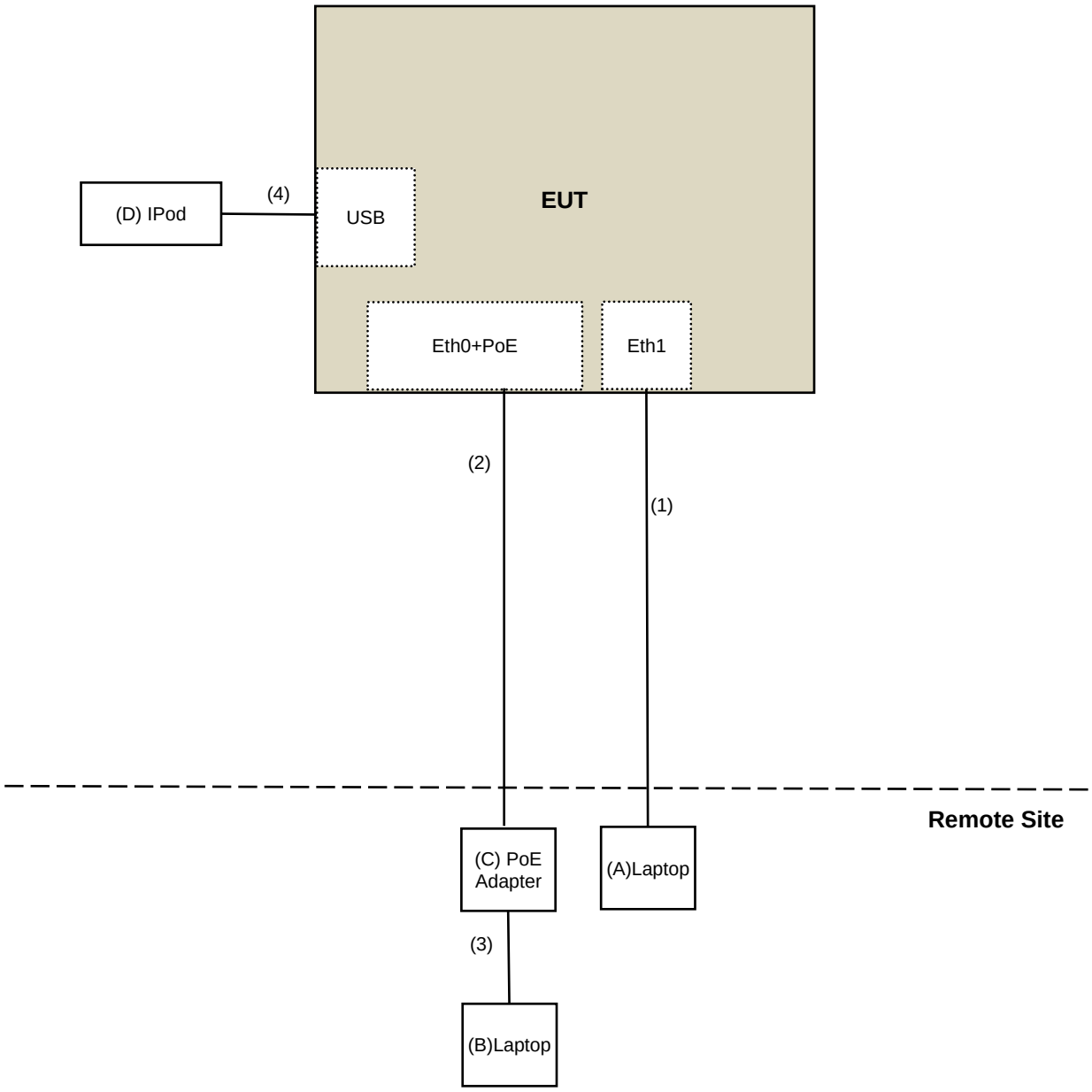
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ-45 Cable	1	10	No	0	Provided by Lab
2.	RJ-45 Cable	1	10	No	0	Provided by Lab
3.	RJ-45 Cable	1	1.5	No	0	Provided by Lab
4.	USB Cable	1	0.1	Yes	0	Provided by Lab

3.4.1 Configuration of System under Test

For conducted emission test:



For other test items:



3.5 General Description of Applied Standards and References

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

Test Standard:

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

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

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 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

For Radiated Emission (Below 1GHz):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Pre-Amplifier EMCI	EMC001340	980142	May 30, 2019	May 29, 2020
Loop Antenna Electro-Metrics	EM-6879	264	Jan. 22, 2019	Jan. 21, 2020
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 30, 2019	Apr. 29, 2020
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-3-1	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-2	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-3	Mar. 18, 2019	Mar. 17, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 26, 2019	Sep. 25, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Jan. 17, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1200	160922	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 10, 2019	June 09, 2020
RF Cable	EMC104-SM-SM-6000	180602	June 10, 2019	June 09, 2020
Spectrum Analyzer Keysight	N9030A	MY54490679	July 17, 2019	July 16, 2020
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Spectrum Analyzer R&S	FSV40	100964	June 04, 2019	June 03, 2020
Spectrum Analyzer Agilent	E4446A	MY48250253	July 24, 2019	July 23, 2020
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Jan. 18 to 22, 2020

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

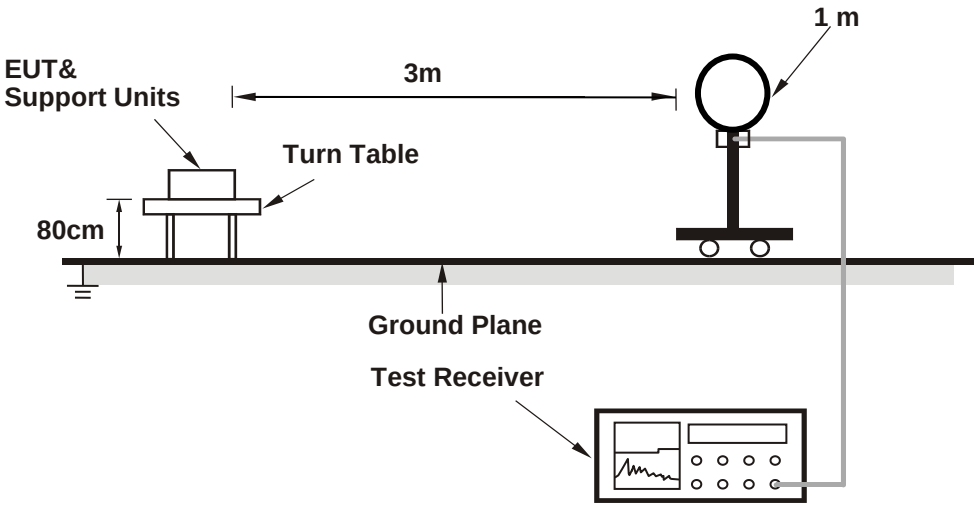
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

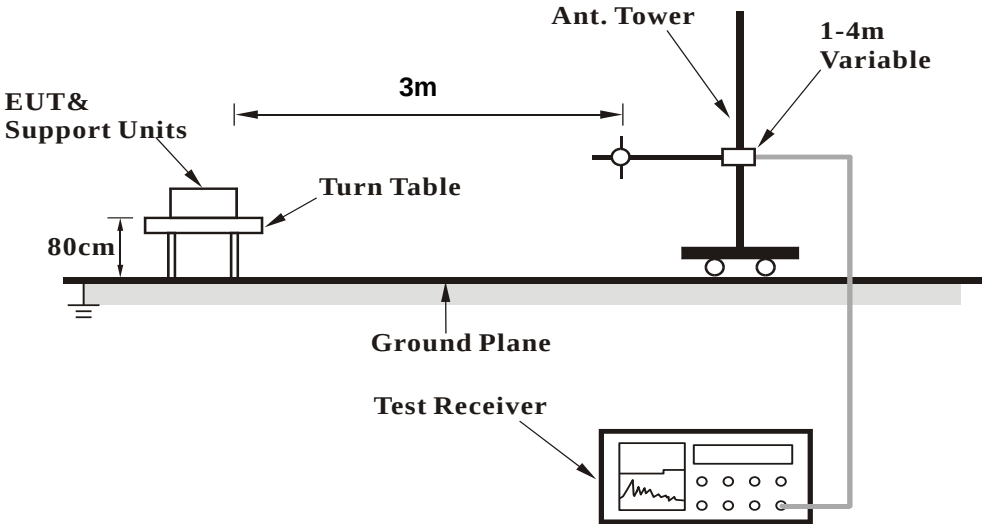
No deviation.

4.1.5 Test Setup

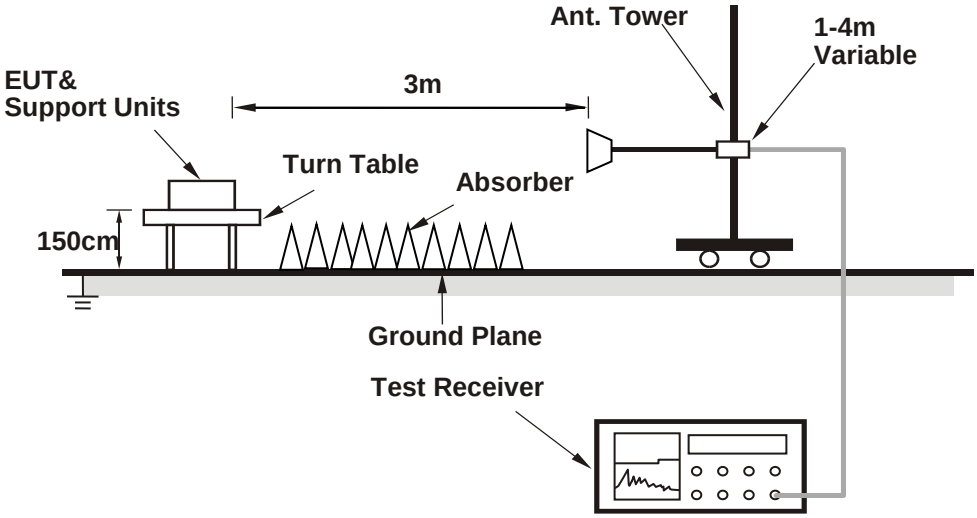
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Connected the EUT with the Laptop which is placed on remote site.
b. Controlling software (accessMTool_REL_3_1_0_3) has been activated to set the EUT under transmission condition continuously.

4.1.7 Test Results (Mode 1)

Above 1GHz Data:

802.11b

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

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	66.8 PK	74.0	-7.2	1.93 H	63	69.2	-2.4
2	2390.00	53.7 AV	54.0	-0.3	1.93 H	63	56.1	-2.4
3	*2412.00	113.4 PK			1.93 H	63	115.8	-2.4
4	*2412.00	111.0 AV			1.93 H	63	113.4	-2.4
5	4824.00	52.3 PK	74.0	-21.7	2.58 H	323	50.1	2.2
6	4824.00	50.5 AV	54.0	-3.5	2.58 H	323	48.3	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	62.6 PK	74.0	-11.4	1.73 V	182	65.0	-2.4
2	2390.00	49.4 AV	54.0	-4.6	1.73 V	182	51.8	-2.4
3	*2412.00	110.6 PK			1.73 V	182	113.0	-2.4
4	*2412.00	108.1 AV			1.73 V	182	110.5	-2.4
5	4824.00	47.3 PK	74.0	-26.7	1.57 V	280	45.1	2.2
6	4824.00	44.3 AV	54.0	-9.7	1.57 V	280	42.1	2.2

REMARKS:

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

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

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	61.2 PK	74.0	-12.8	1.97 H	49	63.6	-2.4
2	2390.00	49.0 AV	54.0	-5.0	1.97 H	49	51.4	-2.4
3	*2437.00	115.4 PK			1.97 H	49	117.8	-2.4
4	*2437.00	112.9 AV			1.97 H	49	115.3	-2.4
5	2483.50	59.6 PK	74.0	-14.4	1.97 H	49	62.1	-2.5
6	2483.50	49.3 AV	54.0	-4.7	1.97 H	49	51.8	-2.5
7	4874.00	55.2 PK	74.0	-18.8	2.58 H	338	53.1	2.1
8	4874.00	53.8 AV	54.0	-0.2	2.58 H	338	51.7	2.1
9	7311.00	55.4 PK	74.0	-18.6	1.42 H	342	47.3	8.1
10	7311.00	52.2 AV	54.0	-1.8	1.42 H	342	44.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.5 PK	74.0	-16.5	1.75 V	167	59.9	-2.4
2	2390.00	45.2 AV	54.0	-8.8	1.75 V	167	47.6	-2.4
3	*2437.00	112.0 PK			1.75 V	167	114.4	-2.4
4	*2437.00	109.5 AV			1.75 V	167	111.9	-2.4
5	2483.50	57.2 PK	74.0	-16.8	1.75 V	167	59.7	-2.5
6	2483.50	45.5 AV	54.0	-8.5	1.75 V	167	48.0	-2.5
7	4874.00	47.0 PK	74.0	-27.0	1.59 V	291	44.9	2.1
8	4874.00	44.2 AV	54.0	-9.8	1.59 V	291	42.1	2.1
9	7311.00	52.7 PK	74.0	-21.3	2.31 V	126	44.6	8.1
10	7311.00	48.5 AV	54.0	-5.5	2.31 V	126	40.4	8.1

REMARKS:

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

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

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	114.4 PK			1.97 H	68	116.9	-2.5
2	*2462.00	111.9 AV			1.97 H	68	114.4	-2.5
3	2483.50	67.0 PK	74.0	-7.0	1.97 H	68	69.5	-2.5
4	2483.50	53.7 AV	54.0	-0.3	1.97 H	68	56.2	-2.5
5	4924.00	52.8 PK	74.0	-21.2	2.56 H	329	50.7	2.1
6	4924.00	50.9 AV	54.0	-3.1	2.56 H	329	48.8	2.1
7	7386.00	52.0 PK	74.0	-22.0	1.40 H	341	43.7	8.3
8	7386.00	48.9 AV	54.0	-5.1	1.40 H	341	40.6	8.3
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	111.2 PK			1.75 V	195	113.7	-2.5
2	*2462.00	108.8 AV			1.75 V	195	111.3	-2.5
3	2483.50	63.0 PK	74.0	-11.0	1.75 V	195	65.5	-2.5
4	2483.50	49.7 AV	54.0	-4.3	1.75 V	195	52.2	-2.5
5	4924.00	44.6 PK	74.0	-29.4	1.54 V	301	42.5	2.1
6	4924.00	41.7 AV	54.0	-12.3	1.54 V	301	39.6	2.1
7	7386.00	50.1 PK	74.0	-23.9	2.31 V	112	41.8	8.3
8	7386.00	45.6 AV	54.0	-8.4	2.31 V	112	37.3	8.3

REMARKS:

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

802.11g

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

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	73.6 PK	74.0	-0.4	2.76 H	53	76.0	-2.4
2	2390.00	48.2 AV	54.0	-5.8	2.76 H	53	50.6	-2.4
3	*2412.00	111.2 PK			2.76 H	53	113.6	-2.4
4	*2412.00	101.4 AV			2.76 H	53	103.8	-2.4
5	4824.00	47.3 PK	74.0	-26.7	2.53 H	332	45.1	2.2
6	4824.00	35.0 AV	54.0	-19.0	2.53 H	332	32.8	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.2 PK	74.0	-4.8	3.44 V	176	71.6	-2.4
2	2390.00	45.6 AV	54.0	-8.4	3.44 V	176	48.0	-2.4
3	*2412.00	106.9 PK			3.44 V	176	109.3	-2.4
4	*2412.00	95.6 AV			3.44 V	176	98.0	-2.4
5	4824.00	44.2 PK	74.0	-29.8	1.62 V	224	42.0	2.2
6	4824.00	31.8 AV	54.0	-22.2	1.62 V	224	29.6	2.2

REMARKS:

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

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

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	70.0 PK	74.0	-4.0	2.76 H	49	72.4	-2.4
2	2390.00	53.5 AV	54.0	-0.5	2.76 H	49	55.9	-2.4
3	*2437.00	116.8 PK			2.76 H	49	119.2	-2.4
4	*2437.00	106.9 AV			2.76 H	49	109.3	-2.4
5	2483.50	69.5 PK	74.0	-4.5	2.76 H	49	72.0	-2.5
6	2483.50	51.2 AV	54.0	-2.8	2.76 H	49	53.7	-2.5
7	4874.00	52.8 PK	74.0	-21.2	2.47 H	342	50.7	2.1
8	4874.00	40.5 AV	54.0	-13.5	2.47 H	342	38.4	2.1
9	7311.00	55.9 PK	74.0	-18.1	1.36 H	339	47.8	8.1
10	7311.00	43.2 AV	54.0	-10.8	1.36 H	339	35.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.1 PK	74.0	-13.9	3.46 V	165	62.5	-2.4
2	2390.00	45.5 AV	54.0	-8.5	3.46 V	165	47.9	-2.4
3	*2437.00	109.8 PK			3.46 V	165	112.2	-2.4
4	*2437.00	99.5 AV			3.46 V	165	101.9	-2.4
5	2483.50	61.1 PK	74.0	-12.9	3.46 V	165	63.6	-2.5
6	2483.50	45.2 AV	54.0	-8.8	3.46 V	165	47.7	-2.5
7	4874.00	48.9 PK	74.0	-25.1	1.67 V	216	46.8	2.1
8	4874.00	36.7 AV	54.0	-17.3	1.67 V	216	34.6	2.1
9	7311.00	53.4 PK	74.0	-20.6	1.27 V	299	45.3	8.1
10	7311.00	40.4 AV	54.0	-13.6	1.27 V	299	32.3	8.1

REMARKS:

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

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

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	111.3 PK			2.72 H	39	113.8	-2.5
2	*2462.00	101.4 AV			2.72 H	39	103.9	-2.5
3	2483.50	73.8 PK	74.0	-0.2	2.72 H	39	76.3	-2.5
4	2483.50	48.7 AV	54.0	-5.3	2.72 H	39	51.2	-2.5
5	4924.00	47.8 PK	74.0	-26.2	2.53 H	349	45.7	2.1
6	4924.00	35.2 AV	54.0	-18.8	2.53 H	349	33.1	2.1
7	7386.00	51.4 PK	74.0	-22.6	1.39 H	341	43.1	8.3
8	7386.00	38.4 AV	54.0	-15.6	1.39 H	341	30.1	8.3
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	107.3 PK			3.48 V	165	109.8	-2.5
2	*2462.00	96.0 AV			3.48 V	165	98.5	-2.5
3	2483.50	68.8 PK	74.0	-5.2	3.48 V	165	71.3	-2.5
4	2483.50	45.3 AV	54.0	-8.7	3.48 V	165	47.8	-2.5
5	4924.00	44.2 PK	74.0	-29.8	1.62 V	228	42.1	2.1
6	4924.00	31.7 AV	54.0	-22.3	1.62 V	228	29.6	2.1
7	7386.00	49.0 PK	74.0	-25.0	1.27 V	290	40.7	8.3
8	7386.00	35.9 AV	54.0	-18.1	1.27 V	290	27.6	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.8 PK	74.0	-0.2	2.80 H	46	76.2	-2.4
2	2390.00	50.5 AV	54.0	-3.5	2.80 H	46	52.9	-2.4
3	*2412.00	114.7 PK			2.80 H	46	117.1	-2.4
4	*2412.00	100.8 AV			2.80 H	46	103.2	-2.4
5	4824.00	47.2 PK	74.0	-26.8	2.48 H	343	45.0	2.2
6	4824.00	35.2 AV	54.0	-18.8	2.48 H	343	33.0	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	3.44 V	163	70.7	-2.4
2	2390.00	45.0 AV	54.0	-9.0	3.44 V	163	47.4	-2.4
3	*2412.00	106.5 PK			3.44 V	163	108.9	-2.4
4	*2412.00	95.8 AV			3.44 V	163	98.2	-2.4
5	4824.00	44.0 PK	74.0	-30.0	1.60 V	230	41.8	2.2
6	4824.00	31.4 AV	54.0	-22.6	1.60 V	230	29.2	2.2

REMARKS:

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

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

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	71.3 PK	74.0	-2.7	2.81 H	53	73.7	-2.4
2	**2390.00**	**53.9 AV**	**54.0**	**-0.1**	**2.81 H**	**53**	**56.3**	**-2.4**
3	*2437.00	118.0 PK			2.81 H	53	120.4	-2.4
4	*2437.00	105.6 AV			2.81 H	53	108.0	-2.4
5	2483.50	70.0 PK	74.0	-4.0	2.81 H	53	72.5	-2.5
6	2483.50	51.6 AV	54.0	-2.4	2.81 H	53	54.1	-2.5
7	4874.00	52.4 PK	74.0	-21.6	2.50 H	348	50.3	2.1
8	4874.00	40.2 AV	54.0	-13.8	2.50 H	348	38.1	2.1
9	7311.00	56.0 PK	74.0	-18.0	1.33 H	343	47.9	8.1
10	7311.00	43.2 AV	54.0	-10.8	1.33 H	343	35.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.9 PK	74.0	-14.1	3.53 V	162	62.3	-2.4
2	2390.00	45.7 AV	54.0	-8.3	3.53 V	162	48.1	-2.4
3	*2437.00	109.7 PK			3.53 V	162	112.1	-2.4
4	*2437.00	99.9 AV			3.53 V	162	102.3	-2.4
5	2483.50	61.5 PK	74.0	-12.5	3.53 V	162	64.0	-2.5
6	2483.50	45.3 AV	54.0	-8.7	3.53 V	162	47.8	-2.5
7	4874.00	48.9 PK	74.0	-25.1	1.61 V	202	46.8	2.1
8	4874.00	36.7 AV	54.0	-17.3	1.61 V	202	34.6	2.1
9	7311.00	53.9 PK	74.0	-20.1	1.30 V	309	45.8	8.1
10	7311.00	40.8 AV	54.0	-13.2	1.30 V	309	32.7	8.1

REMARKS:

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

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

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	113.8 PK			2.74 H	43	116.3	-2.5
2	*2462.00	100.4 AV			2.74 H	43	102.9	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**2.74 H**	**43**	**76.4**	**-2.5**
4	2483.50	48.7 AV	54.0	-5.3	2.74 H	43	51.2	-2.5
5	4924.00	47.5 PK	74.0	-26.5	2.52 H	338	45.4	2.1
6	4924.00	34.8 AV	54.0	-19.2	2.52 H	338	32.7	2.1
7	7386.00	51.5 PK	74.0	-22.5	1.40 H	332	43.2	8.3
8	7386.00	38.7 AV	54.0	-15.3	1.40 H	332	30.4	8.3

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	107.1 PK			3.54 V	176	109.6	-2.5
2	*2462.00	95.9 AV			3.54 V	176	98.4	-2.5
3	2483.50	68.7 PK	74.0	-5.3	3.54 V	176	71.2	-2.5
4	2483.50	45.5 AV	54.0	-8.5	3.54 V	176	48.0	-2.5
5	4924.00	44.5 PK	74.0	-29.5	1.61 V	225	42.4	2.1
6	4924.00	32.2 AV	54.0	-21.8	1.61 V	225	30.1	2.1
7	7386.00	48.8 PK	74.0	-25.2	1.26 V	284	40.5	8.3
8	7386.00	35.8 AV	54.0	-18.2	1.26 V	284	27.5	8.3

REMARKS:

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

802.11ax (HE40)

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

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	73.8 PK	74.0	-0.2	2.74 H	47	76.2	-2.4
2	2390.00	53.7 AV	54.0	-0.3	2.74 H	47	56.1	-2.4
3	*2422.00	111.4 PK			2.74 H	47	113.8	-2.4
4	*2422.00	98.1 AV			2.74 H	47	100.5	-2.4
5	4844.00	47.0 PK	74.0	-27.0	2.55 H	337	44.8	2.2
6	4844.00	34.5 AV	54.0	-19.5	2.55 H	337	32.3	2.2
7	7266.00	52.0 PK	74.0	-22.0	1.39 H	320	44.0	8.0
8	7266.00	38.9 AV	54.0	-15.1	1.39 H	320	30.9	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.6 PK	74.0	-5.4	3.52 V	182	71.0	-2.4
2	2390.00	48.7 AV	54.0	-5.3	3.52 V	182	51.1	-2.4
3	*2422.00	105.3 PK			3.52 V	182	107.7	-2.4
4	*2422.00	91.3 AV			3.52 V	182	93.7	-2.4
5	4844.00	44.8 PK	74.0	-29.2	1.55 V	220	42.6	2.2
6	4844.00	32.5 AV	54.0	-21.5	1.55 V	220	30.3	2.2
7	7266.00	48.9 PK	74.0	-25.1	1.31 V	276	40.9	8.0
8	7266.00	35.8 AV	54.0	-18.2	1.31 V	276	27.8	8.0

REMARKS:

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

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

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	72.1 PK	74.0	-1.9	2.84 H	55	74.5	-2.4
2	2390.00	53.7 AV	54.0	-0.3	2.84 H	55	56.1	-2.4
3	*2437.00	113.2 PK			2.84 H	55	115.6	-2.4
4	*2437.00	99.7 AV			2.84 H	55	102.1	-2.4
5	2483.50	70.2 PK	74.0	-3.8	2.84 H	55	72.7	-2.5
6	2483.50	50.2 AV	54.0	-3.8	2.84 H	55	52.7	-2.5
7	4874.00	49.9 PK	74.0	-24.1	2.51 H	354	47.8	2.1
8	4874.00	38.0 AV	54.0	-16.0	2.51 H	354	35.9	2.1
9	7311.00	53.8 PK	74.0	-20.2	1.36 H	350	45.7	8.1
10	7311.00	41.2 AV	54.0	-12.8	1.36 H	350	33.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	3.56 V	187	69.9	-2.4
2	2390.00	47.9 AV	54.0	-6.1	3.56 V	187	50.3	-2.4
3	*2437.00	106.6 PK			3.56 V	187	109.0	-2.4
4	*2437.00	93.2 AV			3.56 V	187	95.6	-2.4
5	2483.50	69.8 PK	74.0	-4.2	3.56 V	187	72.3	-2.5
6	2483.50	49.5 AV	54.0	-4.5	3.56 V	187	52.0	-2.5
7	4874.00	46.2 PK	74.0	-27.8	1.65 V	188	44.1	2.1
8	4874.00	34.2 AV	54.0	-19.8	1.65 V	188	32.1	2.1
9	7311.00	51.3 PK	74.0	-22.7	1.25 V	299	43.2	8.1
10	7311.00	38.4 AV	54.0	-15.6	1.25 V	299	30.3	8.1

REMARKS:

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

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

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	110.5 PK			2.13 H	59	113.0	-2.5
2	*2452.00	97.7 AV			2.13 H	59	100.2	-2.5
3	2483.50	73.7 PK	74.0	-0.3	2.13 H	59	76.2	-2.5
4	2483.50	49.7 AV	54.0	-4.3	2.13 H	59	52.2	-2.5
5	4904.00	47.8 PK	74.0	-26.2	2.56 H	346	45.8	2.0
6	4904.00	35.2 AV	54.0	-18.8	2.56 H	346	33.2	2.0
7	7356.00	51.9 PK	74.0	-22.1	1.44 H	330	43.7	8.2
8	7356.00	39.1 AV	54.0	-14.9	1.44 H	330	30.9	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.4 PK			3.51 V	179	107.9	-2.5
2	*2452.00	91.4 AV			3.51 V	179	93.9	-2.5
3	2483.50	68.0 PK	74.0	-6.0	3.51 V	179	70.5	-2.5
4	2483.50	48.3 AV	54.0	-5.7	3.51 V	179	50.8	-2.5
5	4904.00	44.2 PK	74.0	-29.8	1.63 V	226	42.2	2.0
6	4904.00	31.7 AV	54.0	-22.3	1.63 V	226	29.7	2.0
7	7356.00	49.0 PK	74.0	-25.0	1.31 V	291	40.8	8.2
8	7356.00	36.1 AV	54.0	-17.9	1.31 V	291	27.9	8.2

REMARKS:

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

4.1.8 Test Results (Mode 2)

Above 1GHz Data:

802.11b

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

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	63.5 PK	74.0	-10.5	2.26 H	47	65.9	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.26 H	47	56.0	-2.4
3	*2412.00	114.4 PK			2.26 H	47	116.8	-2.4
4	*2412.00	111.9 AV			2.26 H	47	114.3	-2.4
5	4824.00	50.0 PK	74.0	-24.0	1.46 H	9	47.8	2.2
6	4824.00	46.9 AV	54.0	-7.1	1.46 H	9	44.7	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	56.8 PK	74.0	-17.2	3.61 V	174	59.2	-2.4
2	2390.00	46.7 AV	54.0	-7.3	3.61 V	174	49.1	-2.4
3	*2412.00	109.1 PK			3.61 V	174	111.5	-2.4
4	*2412.00	106.3 AV			3.61 V	174	108.7	-2.4
5	4824.00	47.4 PK	74.0	-26.6	3.72 V	189	45.2	2.2
6	4824.00	44.5 AV	54.0	-9.5	3.72 V	189	42.3	2.2

REMARKS:

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

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

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	62.5 PK	74.0	-11.5	2.31 H	31	64.9	-2.4
2	2390.00	52.6 AV	54.0	-1.4	2.31 H	31	55.0	-2.4
3	*2437.00	115.6 PK			2.31 H	31	118.0	-2.4
4	*2437.00	113.2 AV			2.31 H	31	115.6	-2.4
5	2483.50	58.7 PK	74.0	-15.3	2.31 H	31	61.2	-2.5
6	2483.50	49.5 AV	54.0	-4.5	2.31 H	31	52.0	-2.5
7	4874.00	51.5 PK	74.0	-22.5	1.50 H	14	49.4	2.1
8	4874.00	48.6 AV	54.0	-5.4	1.50 H	14	46.5	2.1
9	7311.00	53.7 PK	74.0	-20.3	1.56 H	340	45.6	8.1
10	7311.00	50.7 AV	54.0	-3.3	1.56 H	340	42.6	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.4 PK	74.0	-16.6	3.62 V	189	59.8	-2.4
2	2390.00	47.3 AV	54.0	-6.7	3.62 V	189	49.7	-2.4
3	*2437.00	110.4 PK			3.62 V	189	112.8	-2.4
4	*2437.00	107.8 AV			3.62 V	189	110.2	-2.4
5	2483.50	55.9 PK	74.0	-18.1	3.62 V	189	58.4	-2.5
6	2483.50	45.6 AV	54.0	-8.4	3.62 V	189	48.1	-2.5
7	4874.00	48.7 PK	74.0	-25.3	3.67 V	188	46.6	2.1
8	4874.00	45.5 AV	54.0	-8.5	3.67 V	188	43.4	2.1
9	7311.00	55.3 PK	74.0	-18.7	1.56 V	347	47.2	8.1
10	7311.00	51.8 AV	54.0	-2.2	1.56 V	347	43.7	8.1

REMARKS:

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

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

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	113.6 PK			2.45 H	55	116.1	-2.5
2	*2462.00	111.5 AV			2.45 H	55	114.0	-2.5
3	2483.50	62.7 PK	74.0	-11.3	2.45 H	55	65.2	-2.5
4	2483.50	53.7 AV	54.0	-0.3	2.45 H	55	56.2	-2.5
5	4924.00	48.8 PK	74.0	-25.2	1.51 H	11	46.7	2.1
6	4924.00	45.8 AV	54.0	-8.2	1.51 H	11	43.7	2.1
7	7386.00	49.7 PK	74.0	-24.3	1.51 H	336	41.4	8.3
8	7386.00	46.3 AV	54.0	-7.7	1.51 H	336	38.0	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.8 PK			3.59 V	172	111.3	-2.5
2	*2462.00	106.0 AV			3.59 V	172	108.5	-2.5
3	2483.50	56.6 PK	74.0	-17.4	3.59 V	172	59.1	-2.5
4	2483.50	46.8 AV	54.0	-7.2	3.59 V	172	49.3	-2.5
5	4924.00	46.0 PK	74.0	-28.0	3.69 V	183	43.9	2.1
6	4924.00	43.5 AV	54.0	-10.5	3.69 V	183	41.4	2.1
7	7386.00	47.4 PK	74.0	-26.6	1.53 V	350	39.1	8.3
8	7386.00	44.3 AV	54.0	-9.7	1.53 V	350	36.0	8.3

REMARKS:

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

802.11g

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

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	73.7 PK	74.0	-0.3	2.60 H	35	76.1	-2.4
2	2390.00	50.2 AV	54.0	-3.8	2.60 H	35	52.6	-2.4
3	*2412.00	111.7 PK			2.60 H	35	114.1	-2.4
4	*2412.00	100.9 AV			2.60 H	35	103.3	-2.4
5	4824.00	46.3 PK	74.0	-27.7	1.48 H	17	44.1	2.2
6	4824.00	32.9 AV	54.0	-21.1	1.48 H	17	30.7	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.0 PK	74.0	-5.0	3.60 V	176	71.4	-2.4
2	2390.00	45.6 AV	54.0	-8.4	3.60 V	176	48.0	-2.4
3	*2412.00	106.7 PK			3.60 V	176	109.1	-2.4
4	*2412.00	95.7 AV			3.60 V	176	98.1	-2.4
5	4824.00	40.5 PK	74.0	-33.5	1.52 V	207	38.3	2.2
6	4824.00	29.1 AV	54.0	-24.9	1.52 V	207	26.9	2.2

REMARKS:

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

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

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	68.4 PK	74.0	-5.6	2.60 H	31	70.8	-2.4
2	**2390.00**	**53.9 AV**	**54.0**	**-0.1**	**2.60 H**	**31**	**56.3**	**-2.4**
3	*2437.00	115.3 PK			2.60 H	31	117.7	-2.4
4	*2437.00	104.9 AV			2.60 H	31	107.3	-2.4
5	2483.50	72.3 PK	74.0	-1.7	2.60 H	31	74.8	-2.5
6	2483.50	53.1 AV	54.0	-0.9	2.60 H	31	55.6	-2.5
7	4874.00	48.7 PK	74.0	-25.3	1.50 H	18	46.6	2.1
8	4874.00	35.1 AV	54.0	-18.9	1.50 H	18	33.0	2.1
9	7311.00	55.2 PK	74.0	-18.8	1.29 H	345	47.1	8.1
10	7311.00	41.3 AV	54.0	-12.7	1.29 H	345	33.2	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.8 PK	74.0	-14.2	3.61 V	174	62.2	-2.4
2	2390.00	45.5 AV	54.0	-8.5	3.61 V	174	47.9	-2.4
3	*2437.00	109.5 PK			3.61 V	174	111.9	-2.4
4	*2437.00	99.2 AV			3.61 V	174	101.6	-2.4
5	2483.50	60.9 PK	74.0	-13.1	3.61 V	174	63.4	-2.5
6	2483.50	45.0 AV	54.0	-9.0	3.61 V	174	47.5	-2.5
7	4874.00	40.9 PK	74.0	-33.1	1.50 V	201	38.8	2.1
8	4874.00	29.0 AV	54.0	-25.0	1.50 V	201	26.9	2.1
9	7311.00	49.9 PK	74.0	-24.1	1.31 V	351	41.8	8.1
10	7311.00	37.8 AV	54.0	-16.2	1.31 V	351	29.7	8.1

REMARKS:

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

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

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	111.3 PK			2.56 H	39	113.8	-2.5
2	*2462.00	100.6 AV			2.56 H	39	103.1	-2.5
3	2483.50	73.8 PK	74.0	-0.2	2.56 H	39	76.3	-2.5
4	2483.50	49.3 AV	54.0	-4.7	2.56 H	39	51.8	-2.5
5	4924.00	45.9 PK	74.0	-28.1	1.48 H	12	43.8	2.1
6	4924.00	32.2 AV	54.0	-21.8	1.48 H	12	30.1	2.1
7	7386.00	52.1 PK	74.0	-21.9	1.28 H	349	43.8	8.3
8	7386.00	39.4 AV	54.0	-14.6	1.28 H	349	31.1	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.1 PK			3.60 V	185	108.6	-2.5
2	*2462.00	95.3 AV			3.60 V	185	97.8	-2.5
3	2483.50	68.7 PK	74.0	-5.3	3.60 V	185	71.2	-2.5
4	2483.50	45.2 AV	54.0	-8.8	3.60 V	185	47.7	-2.5
5	4924.00	40.7 PK	74.0	-33.3	1.47 V	216	38.6	2.1
6	4924.00	29.0 AV	54.0	-25.0	1.47 V	216	26.9	2.1
7	7386.00	50.1 PK	74.0	-23.9	1.36 V	360	41.8	8.3
8	7386.00	37.9 AV	54.0	-16.1	1.36 V	360	29.6	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.7 PK	74.0	-0.3	2.55 H	38	76.1	-2.4
2	2390.00	52.8 AV	54.0	-1.2	2.55 H	38	55.2	-2.4
3	*2412.00	112.8 PK			2.55 H	38	115.2	-2.4
4	*2412.00	100.7 AV			2.55 H	38	103.1	-2.4
5	4824.00	46.4 PK	74.0	-27.6	1.53 H	14	44.2	2.2
6	4824.00	32.7 AV	54.0	-21.3	1.53 H	14	30.5	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	3.56 V	185	71.1	-2.4
2	2390.00	45.4 AV	54.0	-8.6	3.56 V	185	47.8	-2.4
3	*2412.00	106.7 PK			3.56 V	185	109.1	-2.4
4	*2412.00	95.7 AV			3.56 V	185	98.1	-2.4
5	4824.00	41.0 PK	74.0	-33.0	1.43 V	207	38.8	2.2
6	4824.00	29.4 AV	54.0	-24.6	1.43 V	207	27.2	2.2

REMARKS:

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

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

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	71.0 PK	74.0	-3.0	2.60 H	28	73.4	-2.4
2	2390.00	53.7 AV	54.0	-0.3	2.60 H	28	56.1	-2.4
3	*2437.00	116.5 PK			2.60 H	28	118.9	-2.4
4	*2437.00	104.9 AV			2.60 H	28	107.3	-2.4
5	2483.50	68.9 PK	74.0	-5.1	2.60 H	28	71.4	-2.5
6	2483.50	51.2 AV	54.0	-2.8	2.60 H	28	53.7	-2.5
7	4874.00	48.7 PK	74.0	-25.3	1.46 H	11	46.6	2.1
8	4874.00	35.1 AV	54.0	-18.9	1.46 H	11	33.0	2.1
9	7311.00	55.3 PK	74.0	-18.7	1.26 H	356	47.2	8.1
10	7311.00	41.2 AV	54.0	-12.8	1.26 H	356	33.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.6 PK	74.0	-14.4	3.63 V	169	62.0	-2.4
2	2390.00	45.5 AV	54.0	-8.5	3.63 V	169	47.9	-2.4
3	*2437.00	109.7 PK			3.63 V	169	112.1	-2.4
4	*2437.00	99.7 AV			3.63 V	169	102.1	-2.4
5	2483.50	61.0 PK	74.0	-13.0	3.63 V	169	63.5	-2.5
6	2483.50	45.0 AV	54.0	-9.0	3.63 V	169	47.5	-2.5
7	4874.00	41.6 PK	74.0	-32.4	1.51 V	191	39.5	2.1
8	4874.00	29.5 AV	54.0	-24.5	1.51 V	191	27.4	2.1
9	7311.00	50.2 PK	74.0	-23.8	1.33 V	360	42.1	8.1
10	7311.00	38.3 AV	54.0	-15.7	1.33 V	360	30.2	8.1

REMARKS:

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

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

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	112.4 PK			2.54 H	42	114.9	-2.5
2	*2462.00	100.2 AV			2.54 H	42	102.7	-2.5
3	2483.50	73.6 PK	74.0	-0.4	2.54 H	42	76.1	-2.5
4	2483.50	51.8 AV	54.0	-2.2	2.54 H	42	54.3	-2.5
5	4924.00	45.9 PK	74.0	-28.1	1.47 H	6	43.8	2.1
6	4924.00	32.3 AV	54.0	-21.7	1.47 H	6	30.2	2.1
7	7386.00	51.5 PK	74.0	-22.5	1.31 H	335	43.2	8.3
8	7386.00	38.9 AV	54.0	-15.1	1.31 H	335	30.6	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			3.61 V	198	109.3	-2.5
2	*2462.00	95.6 AV			3.61 V	198	98.1	-2.5
3	2483.50	68.8 PK	74.0	-5.2	3.61 V	198	71.3	-2.5
4	2483.50	45.7 AV	54.0	-8.3	3.61 V	198	48.2	-2.5
5	4924.00	40.4 PK	74.0	-33.6	1.50 V	232	38.3	2.1
6	4924.00	28.9 AV	54.0	-25.1	1.50 V	232	26.8	2.1
7	7386.00	50.8 PK	74.0	-23.2	1.41 V	353	42.5	8.3
8	7386.00	38.3 AV	54.0	-15.7	1.41 V	353	30.0	8.3

REMARKS:

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

802.11ax (HE40)

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

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	72.4 PK	74.0	-1.6	2.38 H	33	74.8	-2.4
2	2390.00	53.7 AV	54.0	-0.3	2.38 H	33	56.1	-2.4
3	*2422.00	110.2 PK			2.38 H	33	112.6	-2.4
4	*2422.00	96.5 AV			2.38 H	33	98.9	-2.4
5	4844.00	45.5 PK	74.0	-28.5	1.46 H	0	43.3	2.2
6	4844.00	32.0 AV	54.0	-22.0	1.46 H	0	29.8	2.2
7	7266.00	51.6 PK	74.0	-22.4	1.26 H	343	43.6	8.0
8	7266.00	39.2 AV	54.0	-14.8	1.26 H	343	31.2	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.2 PK	74.0	-5.8	3.35 V	144	70.6	-2.4
2	2390.00	48.6 AV	54.0	-5.4	3.35 V	144	51.0	-2.4
3	*2422.00	105.5 PK			3.35 V	144	107.9	-2.4
4	*2422.00	91.7 AV			3.35 V	144	94.1	-2.4
5	4844.00	40.5 PK	74.0	-33.5	1.54 V	196	38.3	2.2
6	4844.00	29.0 AV	54.0	-25.0	1.54 V	196	26.8	2.2
7	7266.00	49.8 PK	74.0	-24.2	1.40 V	356	41.8	8.0
8	7266.00	38.0 AV	54.0	-16.0	1.40 V	356	30.0	8.0

REMARKS:

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

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

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	71.8 PK	74.0	-2.2	2.35 H	24	74.2	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.35 H	24	56.2	-2.4
3	*2437.00	111.6 PK			2.35 H	24	114.0	-2.4
4	*2437.00	98.3 AV			2.35 H	24	100.7	-2.4
5	2483.50	71.0 PK	74.0	-3.0	2.35 H	24	73.5	-2.5
6	2483.50	51.9 AV	54.0	-2.1	2.35 H	24	54.4	-2.5
7	4874.00	45.2 PK	74.0	-28.8	1.46 H	20	43.1	2.1
8	4874.00	31.8 AV	54.0	-22.2	1.46 H	20	29.7	2.1
9	7311.00	51.3 PK	74.0	-22.7	1.26 H	342	43.2	8.1
10	7311.00	38.7 AV	54.0	-15.3	1.26 H	342	30.6	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.8 PK	74.0	-6.2	3.36 V	139	70.2	-2.4
2	2390.00	48.3 AV	54.0	-5.7	3.36 V	139	50.7	-2.4
3	*2437.00	107.1 PK			3.36 V	139	109.5	-2.4
4	*2437.00	93.7 AV			3.36 V	139	96.1	-2.4
5	2483.50	69.4 PK	74.0	-4.6	3.36 V	139	71.9	-2.5
6	2483.50	49.3 AV	54.0	-4.7	3.36 V	139	51.8	-2.5
7	4874.00	40.5 PK	74.0	-33.5	1.49 V	204	38.4	2.1
8	4874.00	29.1 AV	54.0	-24.9	1.49 V	204	27.0	2.1
9	7311.00	50.1 PK	74.0	-23.9	1.40 V	354	42.0	8.1
10	7311.00	38.2 AV	54.0	-15.8	1.40 V	354	30.1	8.1

REMARKS:

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

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

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	110.0 PK			2.17 H	31	112.5	-2.5
2	*2452.00	96.3 AV			2.17 H	31	98.8	-2.5
3	2483.50	73.0 PK	74.0	-1.0	2.17 H	31	75.5	-2.5
4	2483.50	50.3 AV	54.0	-3.7	2.17 H	31	52.8	-2.5
5	4904.00	46.5 PK	74.0	-27.5	1.49 H	22	44.5	2.0
6	4904.00	32.7 AV	54.0	-21.3	1.49 H	22	30.7	2.0
7	7356.00	51.2 PK	74.0	-22.8	1.32 H	331	43.0	8.2
8	7356.00	38.5 AV	54.0	-15.5	1.32 H	331	30.3	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.7 PK			3.38 V	153	108.2	-2.5
2	*2452.00	91.7 AV			3.38 V	153	94.2	-2.5
3	2483.50	68.8 PK	74.0	-5.2	3.38 V	153	71.3	-2.5
4	2483.50	49.0 AV	54.0	-5.0	3.38 V	153	51.5	-2.5
5	4904.00	40.1 PK	74.0	-33.9	1.42 V	212	38.1	2.0
6	4904.00	28.5 AV	54.0	-25.5	1.42 V	212	26.5	2.0
7	7356.00	49.5 PK	74.0	-24.5	1.38 V	360	41.3	8.2
8	7356.00	37.5 AV	54.0	-16.5	1.38 V	360	29.3	8.2

REMARKS:

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

4.1.9 Test Results (Mode 3)

Above 1GHz Data:

802.11b

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

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	59.0 PK	74.0	-15.0	2.37 H	54	61.4	-2.4
2	2390.00	51.4 AV	54.0	-2.6	2.37 H	54	53.8	-2.4
3	*2412.00	112.0 PK			2.37 H	54	114.4	-2.4
4	*2412.00	109.4 AV			2.37 H	54	111.8	-2.4
5	4824.00	49.9 PK	74.0	-24.1	1.66 H	99	47.7	2.2
6	4824.00	48.1 AV	54.0	-5.9	1.66 H	99	45.9	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	56.5 PK	74.0	-17.5	1.84 V	156	58.9	-2.4
2	2390.00	46.7 AV	54.0	-7.3	1.84 V	156	49.1	-2.4
3	*2412.00	109.8 PK			1.84 V	156	112.2	-2.4
4	*2412.00	106.8 AV			1.84 V	156	109.2	-2.4
5	4824.00	48.6 PK	74.0	-25.4	3.52 V	190	46.4	2.2
6	4824.00	46.8 AV	54.0	-7.2	3.52 V	190	44.6	2.2

REMARKS:

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

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

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	55.9 PK	74.0	-18.1	2.40 H	44	58.3	-2.4
2	2390.00	43.4 AV	54.0	-10.6	2.40 H	44	45.8	-2.4
3	*2437.00	112.4 PK			2.40 H	44	114.8	-2.4
4	*2437.00	110.1 AV			2.40 H	44	112.5	-2.4
5	2483.50	58.7 PK	74.0	-15.3	2.40 H	44	61.2	-2.5
6	2483.50	44.2 AV	54.0	-9.8	2.40 H	44	46.7	-2.5
7	4874.00	51.2 PK	74.0	-22.8	1.70 H	107	49.1	2.1
8	4874.00	49.8 AV	54.0	-4.2	1.70 H	107	47.7	2.1
9	7311.00	44.0 PK	74.0	-30.0	1.32 H	23	35.9	8.1
10	7311.00	35.9 AV	54.0	-18.1	1.32 H	23	27.8	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.79 V	167	60.2	-2.4
2	2390.00	47.6 AV	54.0	-6.4	1.79 V	167	50.0	-2.4
3	*2437.00	110.3 PK			1.79 V	167	112.7	-2.4
4	*2437.00	107.2 AV			1.79 V	167	109.6	-2.4
5	2483.50	58.1 PK	74.0	-15.9	1.79 V	167	60.6	-2.5
6	2483.50	48.8 AV	54.0	-5.2	1.79 V	167	51.3	-2.5
7	4874.00	51.6 PK	74.0	-22.4	3.49 V	186	49.5	2.1
8	4874.00	49.5 AV	54.0	-4.5	3.49 V	186	47.4	2.1
9	7311.00	45.7 PK	74.0	-28.3	1.44 V	60	37.6	8.1
10	7311.00	35.8 AV	54.0	-18.2	1.44 V	60	27.7	8.1

REMARKS:

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

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

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	112.3 PK			2.45 H	55	114.8	-2.5
2	*2462.00	110.0 AV			2.45 H	55	112.5	-2.5
3	2483.50	59.3 PK	74.0	-14.7	2.45 H	55	61.8	-2.5
4	2483.50	51.5 AV	54.0	-2.5	2.45 H	55	54.0	-2.5
5	4924.00	50.4 PK	74.0	-23.6	1.68 H	57	48.3	2.1
6	4924.00	48.8 AV	54.0	-5.2	1.68 H	57	46.7	2.1
7	7386.00	43.8 PK	74.0	-30.2	1.33 H	13	35.5	8.3
8	7386.00	33.5 AV	54.0	-20.5	1.33 H	13	25.2	8.3
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	109.4 PK			1.85 V	144	111.9	-2.5
2	*2462.00	106.6 AV			1.85 V	144	109.1	-2.5
3	2483.50	56.4 PK	74.0	-17.6	1.85 V	144	58.9	-2.5
4	2483.50	47.2 AV	54.0	-6.8	1.85 V	144	49.7	-2.5
5	4924.00	48.9 PK	74.0	-25.1	3.47 V	196	46.8	2.1
6	4924.00	47.5 AV	54.0	-6.5	3.47 V	196	45.4	2.1
7	7386.00	43.8 PK	74.0	-30.2	1.44 V	35	35.5	8.3
8	7386.00	33.8 AV	54.0	-20.2	1.44 V	35	25.5	8.3

REMARKS:

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

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

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	73.8 PK	74.0	-0.2	2.63 H	48	76.2	-2.4
2	2390.00	51.8 AV	54.0	-2.2	2.63 H	48	54.2	-2.4
3	*2412.00	108.7 PK			2.63 H	48	111.1	-2.4
4	*2412.00	97.8 AV			2.63 H	48	100.2	-2.4
5	4824.00	45.6 PK	74.0	-28.4	1.70 H	104	43.4	2.2
6	4824.00	33.9 AV	54.0	-20.1	1.70 H	104	31.7	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.0 PK	74.0	-7.0	1.74 V	152	69.4	-2.4
2	2390.00	43.2 AV	54.0	-10.8	1.74 V	152	45.6	-2.4
3	*2412.00	105.7 PK			1.74 V	152	108.1	-2.4
4	*2412.00	94.5 AV			1.74 V	152	96.9	-2.4
5	4824.00	47.5 PK	74.0	-26.5	3.44 V	198	45.3	2.2
6	4824.00	35.0 AV	54.0	-19.0	3.44 V	198	32.8	2.2

REMARKS:

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

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

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	66.1 PK	74.0	-7.9	2.58 H	23	68.5	-2.4
2	2390.00	51.6 AV	54.0	-2.4	2.58 H	23	54.0	-2.4
3	*2437.00	113.9 PK			2.58 H	23	116.3	-2.4
4	*2437.00	103.1 AV			2.58 H	23	105.5	-2.4
5	2483.50	68.4 PK	74.0	-5.6	2.58 H	23	70.9	-2.5
6	2483.50	52.6 AV	54.0	-1.4	2.58 H	23	55.1	-2.5
7	4874.00	47.4 PK	74.0	-26.6	1.74 H	100	45.3	2.1
8	4874.00	35.3 AV	54.0	-18.7	1.74 H	100	33.2	2.1
9	7311.00	42.8 PK	74.0	-31.2	1.35 H	20	34.7	8.1
10	7311.00	31.2 AV	54.0	-22.8	1.35 H	20	23.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.4 PK	74.0	-10.6	1.80 V	162	65.8	-2.4
2	2390.00	46.7 AV	54.0	-7.3	1.80 V	162	49.1	-2.4
3	*2437.00	109.4 PK			1.80 V	162	111.8	-2.4
4	*2437.00	98.5 AV			1.80 V	162	100.9	-2.4
5	2483.50	64.2 PK	74.0	-9.8	1.80 V	162	66.7	-2.5
6	2483.50	46.6 AV	54.0	-7.4	1.80 V	162	49.1	-2.5
7	4874.00	49.3 PK	74.0	-24.7	3.44 V	194	47.2	2.1
8	4874.00	36.7 AV	54.0	-17.3	3.44 V	194	34.6	2.1
9	7311.00	44.5 PK	74.0	-29.5	1.48 V	25	36.4	8.1
10	7311.00	32.5 AV	54.0	-21.5	1.48 V	25	24.4	8.1

REMARKS:

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

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

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	109.4 PK			2.51 H	52	111.9	-2.5
2	*2462.00	98.7 AV			2.51 H	52	101.2	-2.5
3	2483.50	73.5 PK	74.0	-0.5	2.51 H	52	76.0	-2.5
4	2483.50	49.8 AV	54.0	-4.2	2.51 H	52	52.3	-2.5
5	4924.00	44.8 PK	74.0	-29.2	1.72 H	93	42.7	2.1
6	4924.00	33.2 AV	54.0	-20.8	1.72 H	93	31.1	2.1
7	7386.00	42.7 PK	74.0	-31.3	1.33 H	21	34.4	8.3
8	7386.00	30.9 AV	54.0	-23.1	1.33 H	21	22.6	8.3
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	105.8 PK			1.69 V	142	108.3	-2.5
2	*2462.00	94.7 AV			1.69 V	142	97.2	-2.5
3	2483.50	67.7 PK	74.0	-6.3	1.69 V	142	70.2	-2.5
4	2483.50	43.9 AV	54.0	-10.1	1.69 V	142	46.4	-2.5
5	4924.00	48.0 PK	74.0	-26.0	3.45 V	186	45.9	2.1
6	4924.00	34.7 AV	54.0	-19.3	3.45 V	186	32.6	2.1
7	7386.00	44.6 PK	74.0	-29.4	1.49 V	28	36.3	8.3
8	7386.00	31.8 AV	54.0	-22.2	1.49 V	28	23.5	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.3 PK	74.0	-0.7	2.60 H	58	75.7	-2.4
2	2390.00	53.1 AV	54.0	-0.9	2.60 H	58	55.5	-2.4
3	*2412.00	111.6 PK			2.60 H	58	114.0	-2.4
4	*2412.00	98.1 AV			2.60 H	58	100.5	-2.4
5	4824.00	47.2 PK	74.0	-26.8	1.75 H	87	45.0	2.2
6	4824.00	33.2 AV	54.0	-20.8	1.75 H	87	31.0	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.8 PK	74.0	-5.2	1.76 V	168	71.2	-2.4
2	2390.00	45.2 AV	54.0	-8.8	1.76 V	168	47.6	-2.4
3	*2412.00	106.3 PK			1.76 V	168	108.7	-2.4
4	*2412.00	95.3 AV			1.76 V	168	97.7	-2.4
5	4824.00	40.5 PK	74.0	-33.5	1.43 V	200	38.3	2.2
6	4824.00	29.5 AV	54.0	-24.5	1.43 V	200	27.3	2.2

REMARKS:

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

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

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	67.1 PK	74.0	-6.9	2.54 H	45	69.5	-2.4
2	2390.00	51.8 AV	54.0	-2.2	2.54 H	45	54.2	-2.4
3	*2437.00	114.9 PK			2.54 H	45	117.3	-2.4
4	*2437.00	101.7 AV			2.54 H	45	104.1	-2.4
5	2483.50	68.9 PK	74.0	-5.1	2.54 H	45	71.4	-2.5
6	2483.50	52.7 AV	54.0	-1.3	2.54 H	45	55.2	-2.5
7	4874.00	49.0 PK	74.0	-25.0	1.72 H	95	46.9	2.1
8	4874.00	35.3 AV	54.0	-18.7	1.72 H	95	33.2	2.1
9	7311.00	54.9 PK	74.0	-19.1	1.35 H	37	46.8	8.1
10	7311.00	40.4 AV	54.0	-13.6	1.35 H	37	32.3	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.0 PK	74.0	-14.0	1.64 V	191	62.4	-2.4
2	2390.00	45.5 AV	54.0	-8.5	1.64 V	191	47.9	-2.4
3	*2437.00	108.5 PK			1.64 V	191	110.9	-2.4
4	*2437.00	98.5 AV			1.64 V	191	100.9	-2.4
5	2483.50	61.5 PK	74.0	-12.5	1.64 V	191	64.0	-2.5
6	2483.50	45.6 AV	54.0	-8.4	1.64 V	191	48.1	-2.5
7	4874.00	42.0 PK	74.0	-32.0	3.49 V	179	39.9	2.1
8	4874.00	29.4 AV	54.0	-24.6	3.49 V	179	27.3	2.1
9	7311.00	49.8 PK	74.0	-24.2	1.54 V	30	41.7	8.1
10	7311.00	37.9 AV	54.0	-16.1	1.54 V	30	29.8	8.1

REMARKS:

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

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

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	110.9 PK			2.49 H	61	113.4	-2.5
2	*2462.00	97.3 AV			2.49 H	61	99.8	-2.5
3	2483.50	73.1 PK	74.0	-0.9	2.49 H	61	75.6	-2.5
4	2483.50	50.0 AV	54.0	-4.0	2.49 H	61	52.5	-2.5
5	4924.00	45.6 PK	74.0	-28.4	1.69 H	84	43.5	2.1
6	4924.00	31.7 AV	54.0	-22.3	1.69 H	84	29.6	2.1
7	7386.00	51.4 PK	74.0	-22.6	1.37 H	34	43.1	8.3
8	7386.00	39.0 AV	54.0	-15.0	1.37 H	34	30.7	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.6 PK			1.75 V	189	109.1	-2.5
2	*2462.00	96.0 AV			1.75 V	189	98.5	-2.5
3	2483.50	68.9 PK	74.0	-5.1	1.75 V	189	71.4	-2.5
4	2483.50	45.5 AV	54.0	-8.5	1.75 V	189	48.0	-2.5
5	4924.00	40.3 PK	74.0	-33.7	3.48 V	190	38.2	2.1
6	4924.00	29.2 AV	54.0	-24.8	3.48 V	190	27.1	2.1
7	7386.00	49.7 PK	74.0	-24.3	1.60 V	38	41.4	8.3
8	7386.00	37.9 AV	54.0	-16.1	1.60 V	38	29.6	8.3

REMARKS:

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

802.11ax (HE40)

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

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	72.7 PK	74.0	-1.3	2.47 H	70	75.1	-2.4
2	2390.00	53.4 AV	54.0	-0.6	2.47 H	70	55.8	-2.4
3	*2422.00	106.9 PK			2.47 H	70	109.3	-2.4
4	*2422.00	93.9 AV			2.47 H	70	96.3	-2.4
5	4844.00	45.2 PK	74.0	-28.8	1.66 H	116	43.0	2.2
6	4844.00	31.4 AV	54.0	-22.6	1.66 H	116	29.2	2.2
7	7266.00	50.5 PK	74.0	-23.5	1.31 H	38	42.5	8.0
8	7266.00	37.7 AV	54.0	-16.3	1.31 H	38	29.7	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	1.77 V	163	69.9	-2.4
2	2390.00	47.9 AV	54.0	-6.1	1.77 V	163	50.3	-2.4
3	*2422.00	105.9 PK			1.77 V	163	108.3	-2.4
4	*2422.00	92.2 AV			1.77 V	163	94.6	-2.4
5	4844.00	40.9 PK	74.0	-33.1	3.54 V	185	38.7	2.2
6	4844.00	29.3 AV	54.0	-24.7	3.54 V	185	27.1	2.2
7	7266.00	50.0 PK	74.0	-24.0	1.52 V	42	42.0	8.0
8	7266.00	38.5 AV	54.0	-15.5	1.52 V	42	30.5	8.0

REMARKS:

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

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

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	69.4 PK	74.0	-4.6	2.61 H	62	71.8	-2.4
2	2390.00	51.5 AV	54.0	-2.5	2.61 H	62	53.9	-2.4
3	*2437.00	109.2 PK			2.61 H	62	111.6	-2.4
4	*2437.00	95.3 AV			2.61 H	62	97.7	-2.4
5	2483.50	72.8 PK	74.0	-1.2	2.61 H	62	75.3	-2.5
6	2483.50	53.7 AV	54.0	-0.3	2.61 H	62	56.2	-2.5
7	4874.00	45.7 PK	74.0	-28.3	1.77 H	91	43.6	2.1
8	4874.00	32.3 AV	54.0	-21.7	1.77 H	91	30.2	2.1
9	7311.00	51.3 PK	74.0	-22.7	1.28 H	34	43.2	8.1
10	7311.00	38.8 AV	54.0	-15.2	1.28 H	34	30.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.2 PK	74.0	-6.8	1.69 V	203	69.6	-2.4
2	2390.00	47.8 AV	54.0	-6.2	1.69 V	203	50.2	-2.4
3	*2437.00	107.3 PK			1.69 V	203	109.7	-2.4
4	*2437.00	93.9 AV			1.69 V	203	96.3	-2.4
5	2483.50	69.3 PK	74.0	-4.7	1.69 V	203	71.8	-2.5
6	2483.50	49.2 AV	54.0	-4.8	1.69 V	203	51.7	-2.5
7	4874.00	40.6 PK	74.0	-33.4	3.50 V	190	38.5	2.1
8	4874.00	28.7 AV	54.0	-25.3	3.50 V	190	26.6	2.1
9	7311.00	50.4 PK	74.0	-23.6	1.63 V	42	42.3	8.1
10	7311.00	38.8 AV	54.0	-15.2	1.63 V	42	30.7	8.1

REMARKS:

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

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

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	108.2 PK			2.63 H	58	110.7	-2.5
2	*2452.00	95.0 AV			2.63 H	58	97.5	-2.5
3	2483.50	73.6 PK	74.0	-0.4	2.63 H	58	76.1	-2.5
4	2483.50	52.4 AV	54.0	-1.6	2.63 H	58	54.9	-2.5
5	4904.00	45.6 PK	74.0	-28.4	1.70 H	114	43.6	2.0
6	4904.00	32.2 AV	54.0	-21.8	1.70 H	114	30.2	2.0
7	7356.00	51.5 PK	74.0	-22.5	1.29 H	41	43.3	8.2
8	7356.00	38.8 AV	54.0	-15.2	1.29 H	41	30.6	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.5 PK			1.81 V	164	109.0	-2.5
2	*2452.00	92.4 AV			1.81 V	164	94.9	-2.5
3	2483.50	67.8 PK	74.0	-6.2	1.81 V	164	70.3	-2.5
4	2483.50	47.8 AV	54.0	-6.2	1.81 V	164	50.3	-2.5
5	4904.00	41.8 PK	74.0	-32.2	3.43 V	182	39.8	2.0
6	4904.00	29.8 AV	54.0	-24.2	3.43 V	182	27.8	2.0
7	7356.00	51.4 PK	74.0	-22.6	1.54 V	22	43.2	8.2
8	7356.00	39.7 AV	54.0	-14.3	1.54 V	22	31.5	8.2

REMARKS:

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

4.1.10 Test Results (Mode 4)

Above 1GHz Data:

802.11b

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

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	2388.00	62.4 PK	74.0	-11.6	1.83 H	118	64.8	-2.4
2	2388.00	53.7 AV	54.0	-0.3	1.83 H	118	56.1	-2.4
3	2390.00	59.5 PK	74.0	-14.5	1.83 H	118	61.9	-2.4
4	2390.00	50.0 AV	54.0	-4.0	1.83 H	118	52.4	-2.4
5	*2412.00	117.3 PK			1.83 H	118	119.7	-2.4
6	*2412.00	115.0 AV			1.83 H	118	117.4	-2.4
7	4824.00	46.0 PK	74.0	-28.0	1.43 H	56	43.8	2.2
8	4824.00	43.5 AV	54.0	-10.5	1.43 H	56	41.3	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2388.00	58.2 PK	74.0	-15.8	3.60 V	125	60.6	-2.4
2	2388.00	49.1 AV	54.0	-4.9	3.60 V	125	51.5	-2.4
3	2390.00	55.4 PK	74.0	-18.6	3.60 V	125	57.8	-2.4
4	2390.00	45.7 AV	54.0	-8.3	3.60 V	125	48.1	-2.4
5	*2412.00	113.5 PK			3.60 V	125	115.9	-2.4
6	*2412.00	111.2 AV			3.60 V	125	113.6	-2.4
7	4824.00	42.7 PK	74.0	-31.3	1.52 V	140	40.5	2.2
8	4824.00	37.4 AV	54.0	-16.6	1.52 V	140	35.2	2.2

REMARKS:

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

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

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	60.8 PK	74.0	-13.2	1.75 H	325	63.2	-2.4
2	2390.00	51.7 AV	54.0	-2.3	1.75 H	325	54.1	-2.4
3	*2437.00	119.7 PK			2.06 H	120	122.1	-2.4
4	*2437.00	117.4 AV			2.06 H	120	119.8	-2.4
5	2483.50	61.1 PK	74.0	-12.9	1.75 H	325	63.6	-2.5
6	2483.50	53.6 AV	54.0	-0.4	1.75 H	325	56.1	-2.5
7	4874.00	54.6 PK	74.0	-19.4	1.47 H	50	52.5	2.1
8	4874.00	52.8 AV	54.0	-1.2	1.47 H	50	50.7	2.1
9	7311.00	51.9 PK	74.0	-22.1	1.59 H	324	43.8	8.1
10	7311.00	48.4 AV	54.0	-5.6	1.59 H	324	40.3	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.4 PK	74.0	-18.6	3.64 V	119	57.8	-2.4
2	2390.00	45.7 AV	54.0	-8.3	3.64 V	119	48.1	-2.4
3	*2437.00	116.0 PK			3.64 V	119	118.4	-2.4
4	*2437.00	113.6 AV			3.64 V	119	116.0	-2.4
5	2483.50	56.7 PK	74.0	-17.3	3.64 V	119	59.2	-2.5
6	2483.50	49.2 AV	54.0	-4.8	3.64 V	119	51.7	-2.5
7	4874.00	53.1 PK	74.0	-20.9	1.51 V	141	51.0	2.1
8	4874.00	47.6 AV	54.0	-6.4	1.51 V	141	45.5	2.1
9	7311.00	49.8 PK	74.0	-24.2	1.49 V	67	41.7	8.1
10	7311.00	41.9 AV	54.0	-12.1	1.49 V	67	33.8	8.1

REMARKS:

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

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

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	115.0 PK			1.83 H	118	117.5	-2.5
2	*2462.00	112.7 AV			1.83 H	118	115.2	-2.5
3	2483.50	61.4 PK	74.0	-12.6	1.83 H	118	63.9	-2.5
4	2483.50	50.8 AV	54.0	-3.2	1.83 H	118	53.3	-2.5
5	2488.30	63.2 PK	74.0	-10.8	1.83 H	118	65.7	-2.5
6	2488.30	53.6 AV	54.0	-0.4	1.83 H	118	56.1	-2.5
7	4924.00	45.9 PK	74.0	-28.1	1.44 H	48	43.8	2.1
8	4924.00	43.2 AV	54.0	-10.8	1.44 H	48	41.1	2.1
9	7386.00	48.8 PK	74.0	-25.2	1.56 H	333	40.5	8.3
10	7386.00	42.3 AV	54.0	-11.7	1.56 H	333	34.0	8.3
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	111.3 PK			3.69 V	127	113.8	-2.5
2	*2462.00	109.2 AV			3.69 V	127	111.7	-2.5
3	2483.50	55.3 PK	74.0	-18.7	3.69 V	127	57.8	-2.5
4	2483.50	45.6 AV	54.0	-8.4	3.69 V	127	48.1	-2.5
5	2488.30	58.8 PK	74.0	-15.2	3.69 V	127	61.3	-2.5
6	2488.30	49.5 AV	54.0	-4.5	3.69 V	127	52.0	-2.5
7	4924.00	42.9 PK	74.0	-31.1	1.52 V	130	40.8	2.1
8	4924.00	37.7 AV	54.0	-16.3	1.52 V	130	35.6	2.1
9	7386.00	46.9 PK	74.0	-27.1	1.46 V	79	38.6	8.3
10	7386.00	39.3 AV	54.0	-14.7	1.46 V	79	31.0	8.3

REMARKS:

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

802.11g

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

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	73.6 PK	74.0	-0.4	2.10 H	105	76.0	-2.4
2	2390.00	49.6 AV	54.0	-4.4	2.10 H	105	52.0	-2.4
3	*2412.00	114.6 PK			2.10 H	105	117.0	-2.4
4	*2412.00	104.5 AV			2.10 H	105	106.9	-2.4
5	4824.00	40.8 PK	74.0	-33.2	1.37 H	41	38.6	2.2
6	4824.00	37.9 AV	54.0	-16.1	1.37 H	41	35.7	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	3.63 V	132	70.9	-2.4
2	2390.00	44.8 AV	54.0	-9.2	3.63 V	132	47.2	-2.4
3	*2412.00	109.9 PK			3.63 V	132	112.3	-2.4
4	*2412.00	99.8 AV			3.63 V	132	102.2	-2.4
5	4824.00	35.9 PK	74.0	-38.1	1.52 V	130	33.7	2.2
6	4824.00	33.0 AV	54.0	-21.0	1.52 V	130	30.8	2.2

REMARKS:

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

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

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	2.30 H	107	73.2	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.30 H	107	56.0	-2.4
3	*2437.00	118.0 PK			2.30 H	107	120.4	-2.4
4	*2437.00	108.1 AV			2.30 H	107	110.5	-2.4
5	2483.50	70.5 PK	74.0	-3.5	2.30 H	107	73.0	-2.5
6	2483.50	52.2 AV	54.0	-1.8	2.30 H	107	54.7	-2.5
7	4874.00	43.7 PK	74.0	-30.3	1.36 H	33	41.6	2.1
8	4874.00	40.7 AV	54.0	-13.3	1.36 H	33	38.6	2.1
9	7311.00	46.5 PK	74.0	-27.5	1.54 H	316	38.4	8.1
10	7311.00	39.9 AV	54.0	-14.1	1.54 H	316	31.8	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.7 PK	74.0	-8.3	3.68 V	114	68.1	-2.4
2	2390.00	48.8 AV	54.0	-5.2	3.68 V	114	51.2	-2.4
3	*2437.00	113.6 PK			3.68 V	114	116.0	-2.4
4	*2437.00	103.4 AV			3.68 V	114	105.8	-2.4
5	2483.50	65.3 PK	74.0	-8.7	3.68 V	114	67.8	-2.5
6	2483.50	48.2 AV	54.0	-5.8	3.68 V	114	50.7	-2.5
7	4874.00	38.4 PK	74.0	-35.6	1.52 V	130	36.3	2.1
8	4874.00	34.9 AV	54.0	-19.1	1.52 V	130	32.8	2.1
9	7311.00	43.8 PK	74.0	-30.2	1.46 V	79	35.7	8.1
10	7311.00	36.9 AV	54.0	-17.1	1.46 V	79	28.8	8.1

REMARKS:

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

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

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	112.2 PK			2.25 H	104	114.7	-2.5
2	*2462.00	102.5 AV			2.25 H	104	105.0	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**2.25 H**	**104**	**76.4**	**-2.5**
4	2483.50	48.1 AV	54.0	-5.9	2.25 H	104	50.6	-2.5
5	4924.00	41.3 PK	74.0	-32.7	1.38 H	37	39.2	2.1
6	4924.00	38.4 AV	54.0	-15.6	1.38 H	37	36.3	2.1
7	7386.00	44.6 PK	74.0	-29.4	1.50 H	326	36.3	8.3
8	7386.00	37.8 AV	54.0	-16.2	1.50 H	326	29.5	8.3

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	107.8 PK			3.66 V	133	110.3	-2.5
2	*2462.00	97.6 AV			3.66 V	133	100.1	-2.5
3	2483.50	67.6 PK	74.0	-6.4	3.66 V	133	70.1	-2.5
4	2483.50	44.2 AV	54.0	-9.8	3.66 V	133	46.7	-2.5
5	4924.00	36.6 PK	74.0	-37.4	1.56 V	116	34.5	2.1
6	4924.00	33.4 AV	54.0	-20.6	1.56 V	116	31.3	2.1
7	7386.00	41.7 PK	74.0	-32.3	1.51 V	75	33.4	8.3
8	7386.00	34.8 AV	54.0	-19.2	1.51 V	75	26.5	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.6 PK	74.0	-0.4	2.09 H	103	76.0	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.09 H	103	56.2	-2.4
3	*2412.00	115.9 PK			2.09 H	103	118.3	-2.4
4	*2412.00	103.0 AV			2.09 H	103	105.4	-2.4
5	4824.00	41.3 PK	74.0	-32.7	1.48 H	36	39.1	2.2
6	4824.00	38.4 AV	54.0	-15.6	1.48 H	36	36.2	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	3.68 V	127	70.8	-2.4
2	2390.00	48.8 AV	54.0	-5.2	3.68 V	127	51.2	-2.4
3	*2412.00	110.6 PK			3.68 V	127	113.0	-2.4
4	*2412.00	97.8 AV			3.68 V	127	100.2	-2.4
5	4824.00	36.8 PK	74.0	-37.2	1.58 V	110	34.6	2.2
6	4824.00	33.4 AV	54.0	-20.6	1.58 V	110	31.2	2.2

REMARKS:

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

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

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	70.2 PK	74.0	-3.8	2.25 H	103	72.6	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.25 H	103	56.0	-2.4
3	*2437.00	119.5 PK			2.25 H	103	121.9	-2.4
4	*2437.00	107.1 AV			2.25 H	103	109.5	-2.4
5	2483.50	70.4 PK	74.0	-3.6	2.25 H	103	72.9	-2.5
6	2483.50	51.5 AV	54.0	-2.5	2.25 H	103	54.0	-2.5
7	4874.00	43.3 PK	74.0	-30.7	1.43 H	41	41.2	2.1
8	4874.00	40.2 AV	54.0	-13.8	1.43 H	41	38.1	2.1
9	7311.00	46.5 PK	74.0	-27.5	1.48 H	339	38.4	8.1
10	7311.00	39.8 AV	54.0	-14.2	1.48 H	339	31.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.7 PK	74.0	-8.3	3.66 V	146	68.1	-2.4
2	2390.00	48.6 AV	54.0	-5.4	3.66 V	146	51.0	-2.4
3	*2437.00	114.4 PK			3.66 V	146	116.8	-2.4
4	*2437.00	101.5 AV			3.66 V	146	103.9	-2.4
5	2483.50	65.2 PK	74.0	-8.8	3.66 V	146	67.7	-2.5
6	2483.50	48.0 AV	54.0	-6.0	3.66 V	146	50.5	-2.5
7	4874.00	38.6 PK	74.0	-35.4	1.50 V	115	36.5	2.1
8	4874.00	35.0 AV	54.0	-19.0	1.50 V	115	32.9	2.1
9	7311.00	43.5 PK	74.0	-30.5	1.51 V	70	35.4	8.1
10	7311.00	36.4 AV	54.0	-17.6	1.51 V	70	28.3	8.1

REMARKS:

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

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

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	113.6 PK			2.26 H	106	116.1	-2.5
2	*2462.00	101.5 AV			2.26 H	106	104.0	-2.5
3	2483.50	73.6 PK	74.0	-0.4	2.26 H	106	76.1	-2.5
4	2483.50	50.0 AV	54.0	-4.0	2.26 H	106	52.5	-2.5
5	4924.00	41.4 PK	74.0	-32.6	1.43 H	45	39.3	2.1
6	4924.00	38.6 AV	54.0	-15.4	1.43 H	45	36.5	2.1
7	7386.00	44.1 PK	74.0	-29.9	1.49 H	335	35.8	8.3
8	7386.00	37.5 AV	54.0	-16.5	1.49 H	335	29.2	8.3
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	110.5 PK			3.65 V	123	113.0	-2.5
2	*2462.00	97.7 AV			3.65 V	123	100.2	-2.5
3	2483.50	70.8 PK	74.0	-3.2	3.65 V	123	73.3	-2.5
4	2483.50	48.3 AV	54.0	-5.7	3.65 V	123	50.8	-2.5
5	4924.00	36.9 PK	74.0	-37.1	1.56 V	116	34.8	2.1
6	4924.00	33.5 AV	54.0	-20.5	1.56 V	116	31.4	2.1
7	7386.00	42.0 PK	74.0	-32.0	1.50 V	82	33.7	8.3
8	7386.00	35.2 AV	54.0	-18.8	1.50 V	82	26.9	8.3

REMARKS:

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

802.11ax (HE40)

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

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	2388.20	69.3 PK	74.0	-4.7	1.82 H	118	71.7	-2.4
2	2388.20	53.6 AV	54.0	-0.4	1.82 H	118	56.0	-2.4
3	2390.00	65.7 PK	74.0	-8.3	1.82 H	118	68.1	-2.4
4	2390.00	52.5 AV	54.0	-1.5	1.82 H	118	54.9	-2.4
5	*2422.00	111.2 PK			1.82 H	118	113.6	-2.4
6	*2422.00	98.9 AV			1.82 H	118	101.3	-2.4
7	4844.00	41.8 PK	74.0	-32.2	1.44 H	41	39.6	2.2
8	4844.00	38.7 AV	54.0	-15.3	1.44 H	41	36.5	2.2
9	7266.00	45.2 PK	74.0	-28.8	1.51 H	321	37.2	8.0
10	7266.00	38.2 AV	54.0	-15.8	1.51 H	321	30.2	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2388.20	65.3 PK	74.0	-8.7	3.68 V	121	67.7	-2.4
2	2388.20	49.1 AV	54.0	-4.9	3.68 V	121	51.5	-2.4
3	2390.00	63.5 PK	74.0	-10.5	3.68 V	121	65.9	-2.4
4	2390.00	48.3 AV	54.0	-5.7	3.68 V	121	50.7	-2.4
5	*2422.00	107.8 PK			3.68 V	121	110.2	-2.4
6	*2422.00	95.4 AV			3.68 V	121	97.8	-2.4
7	4844.00	36.9 PK	74.0	-37.1	1.51 V	138	34.7	2.2
8	4844.00	33.5 AV	54.0	-20.5	1.51 V	138	31.3	2.2
9	7266.00	42.0 PK	74.0	-32.0	1.48 V	93	34.0	8.0
10	7266.00	35.1 AV	54.0	-18.9	1.48 V	93	27.1	8.0

REMARKS:

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

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

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	72.8 PK	74.0	-1.2	2.04 H	119	75.2	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.04 H	119	56.2	-2.4
3	*2437.00	113.9 PK			2.04 H	119	116.3	-2.4
4	*2437.00	101.5 AV			2.04 H	119	103.9	-2.4
5	2483.50	73.4 PK	74.0	-0.6	2.04 H	119	75.9	-2.5
6	2483.50	50.5 AV	54.0	-3.5	2.04 H	119	53.0	-2.5
7	4874.00	41.3 PK	74.0	-32.7	1.38 H	23	39.2	2.1
8	4874.00	38.6 AV	54.0	-15.4	1.38 H	23	36.5	2.1
9	7311.00	45.0 PK	74.0	-29.0	1.46 H	332	36.9	8.1
10	7311.00	37.9 AV	54.0	-16.1	1.46 H	332	29.8	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.4 PK	74.0	-7.6	3.69 V	142	68.8	-2.4
2	2390.00	48.8 AV	54.0	-5.2	3.69 V	142	51.2	-2.4
3	*2437.00	110.1 PK			3.69 V	142	112.5	-2.4
4	*2437.00	97.7 AV			3.69 V	142	100.1	-2.4
5	2483.50	68.3 PK	74.0	-5.7	3.69 V	142	70.8	-2.5
6	2483.50	47.3 AV	54.0	-6.7	3.69 V	142	49.8	-2.5
7	4874.00	36.6 PK	74.0	-37.4	1.58 V	146	34.5	2.1
8	4874.00	33.6 AV	54.0	-20.4	1.58 V	146	31.5	2.1
9	7311.00	41.7 PK	74.0	-32.3	1.44 V	71	33.6	8.1
10	7311.00	34.5 AV	54.0	-19.5	1.44 V	71	26.4	8.1

REMARKS:

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

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

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	111.4 PK			1.92 H	118	113.9	-2.5
2	*2452.00	98.3 AV			1.92 H	118	100.8	-2.5
3	2483.50	73.8 PK	74.0	-0.2	1.92 H	118	76.3	-2.5
4	2483.50	49.1 AV	54.0	-4.9	1.92 H	118	51.6	-2.5
5	4904.00	41.3 PK	74.0	-32.7	1.43 H	46	39.3	2.0
6	4904.00	38.5 AV	54.0	-15.5	1.43 H	46	36.5	2.0
7	7356.00	44.5 PK	74.0	-29.5	1.49 H	319	36.3	8.2
8	7356.00	37.6 AV	54.0	-16.4	1.49 H	319	29.4	8.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.2 PK			3.64 V	121	109.7	-2.5
2	*2452.00	95.0 AV			3.64 V	121	97.5	-2.5
3	2483.50	70.2 PK	74.0	-3.8	3.64 V	121	72.7	-2.5
4	2483.50	45.6 AV	54.0	-8.4	3.64 V	121	48.1	-2.5
5	4904.00	37.0 PK	74.0	-37.0	1.48 V	143	35.0	2.0
6	4904.00	33.6 AV	54.0	-20.4	1.48 V	143	31.6	2.0
7	7356.00	42.0 PK	74.0	-32.0	1.50 V	79	33.8	8.2
8	7356.00	34.9 AV	54.0	-19.1	1.50 V	79	26.7	8.2

REMARKS:

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

Below 1GHz Data:

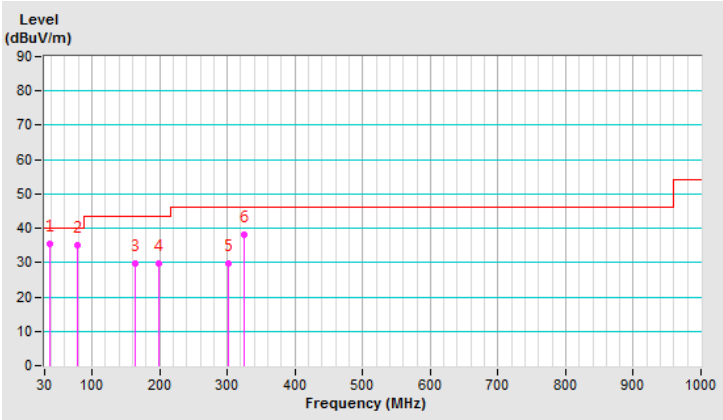
802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	36.84	35.4 QP	40.0	-4.6	3.00 H	42	43.9	-8.5
2	79.20	35.1 QP	40.0	-4.9	3.00 H	129	47.6	-12.5
3	163.57	29.7 QP	43.5	-13.8	1.00 H	104	37.0	-7.3
4	198.80	29.8 QP	43.5	-13.7	1.50 H	114	40.2	-10.4
5	301.79	29.7 QP	46.0	-16.3	1.50 H	291	36.0	-6.3
6	324.32	38.0 QP	46.0	-8.0	1.00 H	52	43.5	-5.5

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

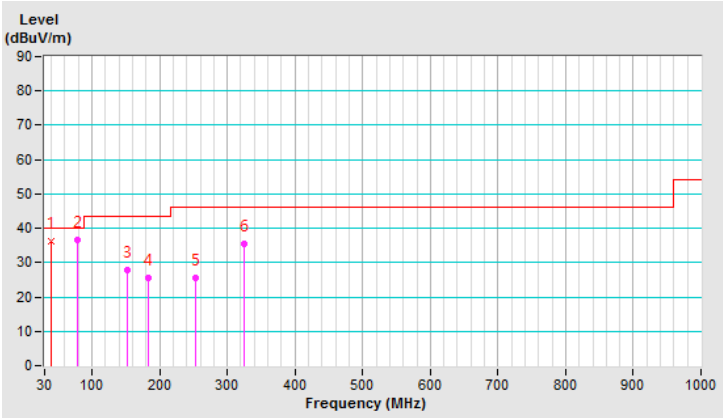


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.08	36.2 QP	40.0	-3.8	1.01 V	360	44.4	-8.2
2	78.72	36.5 QP	40.0	-3.5	1.00 V	144	48.9	-12.4
3	152.37	27.8 QP	43.5	-15.7	1.50 V	191	34.9	-7.1
4	182.58	25.6 QP	43.5	-17.9	1.50 V	360	34.6	-9.0
5	253.39	25.5 QP	46.0	-20.5	1.00 V	152	33.8	-8.3
6	325.49	35.5 QP	46.0	-10.5	1.50 V	84	40.9	-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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.11 Test Results (Mode 5)

Above 1GHz Data:

802.11b

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

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	2389.30	62.9 PK	74.0	-11.1	1.80 H	119	65.3	-2.4
2	**2389.30**	**53.9 AV**	**54.0**	**-0.1**	**1.80 H**	**119**	**56.3**	**-2.4**
3	2390.00	58.9 PK	74.0	-15.1	1.80 H	119	61.3	-2.4
4	2390.00	52.6 AV	54.0	-1.4	1.80 H	119	55.0	-2.4
5	*2412.00	113.6 PK			1.80 H	119	116.0	-2.4
6	*2412.00	110.9 AV			1.80 H	119	113.3	-2.4
7	4824.00	50.7 PK	74.0	-23.3	1.51 H	38	48.5	2.2
8	4824.00	45.6 AV	54.0	-8.4	1.51 H	38	43.4	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2389.30	57.0 PK	74.0	-17.0	1.50 V	143	59.4	-2.4
2	2389.30	46.9 AV	54.0	-7.1	1.50 V	143	49.3	-2.4
3	2390.00	54.3 PK	74.0	-19.7	1.50 V	143	56.7	-2.4
4	2390.00	45.7 AV	54.0	-8.3	1.50 V	143	48.1	-2.4
5	*2412.00	105.4 PK			1.50 V	143	107.8	-2.4
6	*2412.00	102.9 AV			1.50 V	143	105.3	-2.4
7	4824.00	46.4 PK	74.0	-27.6	1.47 V	302	44.2	2.2
8	4824.00	42.9 AV	54.0	-11.1	1.47 V	302	40.7	2.2

REMARKS:

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

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

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	2388.30	59.9 PK	74.0	-14.1	1.00 H	321	62.3	-2.4
2	2388.30	53.0 AV	54.0	-1.0	1.00 H	321	55.4	-2.4
3	2390.00	54.4 PK	74.0	-19.6	1.00 H	321	56.8	-2.4
4	2390.00	44.9 AV	54.0	-9.1	1.00 H	321	47.3	-2.4
5	*2437.00	116.0 PK			1.00 H	321	118.4	-2.4
6	*2437.00	113.5 AV			1.00 H	321	115.9	-2.4
7	2483.50	57.2 PK	74.0	-16.8	1.00 H	321	59.7	-2.5
8	2483.50	47.5 AV	54.0	-6.5	1.00 H	321	50.0	-2.5
9	2485.70	59.6 PK	74.0	-14.4	1.00 H	321	62.1	-2.5
10	2485.70	50.4 AV	54.0	-3.6	1.00 H	321	52.9	-2.5
11	4874.00	52.3 PK	74.0	-21.7	1.50 H	71	50.2	2.1
12	4874.00	49.9 AV	54.0	-4.1	1.50 H	71	47.8	2.1
13	7311.00	55.2 PK	74.0	-18.8	1.50 H	32	47.1	8.1
14	7311.00	51.8 AV	54.0	-2.2	1.50 H	32	43.7	8.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2388.30	57.0 PK	74.0	-17.0	1.47 V	134	59.4	-2.4
2	2388.30	47.2 AV	54.0	-6.8	1.47 V	134	49.6	-2.4
3	2390.00	52.2 PK	74.0	-21.8	1.47 V	134	54.6	-2.4
4	2390.00	43.8 AV	54.0	-10.2	1.47 V	134	46.2	-2.4
5	*2437.00	106.9 PK			1.47 V	134	109.3	-2.4
6	*2437.00	104.5 AV			1.47 V	134	106.9	-2.4
7	2483.50	54.3 PK	74.0	-19.7	1.47 V	134	56.8	-2.5
8	2483.50	43.9 AV	54.0	-10.1	1.47 V	134	46.4	-2.5
9	2485.70	56.2 PK	74.0	-17.8	1.47 V	134	58.7	-2.5
10	2485.70	47.3 AV	54.0	-6.7	1.47 V	134	49.8	-2.5
11	4874.00	48.2 PK	74.0	-25.8	1.50 V	321	46.1	2.1
12	4874.00	44.8 AV	54.0	-9.2	1.50 V	321	42.7	2.1
13	7311.00	56.3 PK	74.0	-17.7	1.01 V	83	48.2	8.1
14	7311.00	52.2 AV	54.0	-1.8	1.01 V	83	44.1	8.1

REMARKS:

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

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

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	114.9 PK			1.99 H	329	117.4	-2.5
2	*2462.00	112.2 AV			1.99 H	329	114.7	-2.5
3	2483.50	57.9 PK	74.0	-16.1	1.99 H	329	60.4	-2.5
4	2483.50	49.7 AV	54.0	-4.3	1.99 H	329	52.2	-2.5
5	2488.70	62.5 PK	74.0	-11.5	1.99 H	329	65.0	-2.5
6	2488.70	53.7 AV	54.0	-0.3	1.99 H	329	56.2	-2.5
7	4924.00	49.6 PK	74.0	-24.4	1.51 H	66	47.5	2.1
8	4924.00	47.2 AV	54.0	-6.8	1.51 H	66	45.1	2.1
9	7386.00	53.1 PK	74.0	-20.9	1.52 H	326	44.8	8.3
10	7386.00	49.7 AV	54.0	-4.3	1.52 H	326	41.4	8.3
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	107.1 PK			1.42 V	140	109.6	-2.5
2	*2462.00	104.4 AV			1.42 V	140	106.9	-2.5
3	2483.50	52.8 PK	74.0	-21.2	1.42 V	140	55.3	-2.5
4	2483.50	44.2 AV	54.0	-9.8	1.42 V	140	46.7	-2.5
5	2488.70	57.2 PK	74.0	-16.8	1.42 V	140	59.7	-2.5
6	2488.70	47.1 AV	54.0	-6.9	1.42 V	140	49.6	-2.5
7	4924.00	46.7 PK	74.0	-27.3	1.47 V	315	44.6	2.1
8	4924.00	43.1 AV	54.0	-10.9	1.47 V	315	41.0	2.1
9	7386.00	53.6 PK	74.0	-20.4	1.01 V	93	45.3	8.3
10	7386.00	50.0 AV	54.0	-4.0	1.01 V	93	41.7	8.3

REMARKS:

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

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

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	73.8 PK	74.0	-0.2	2.03 H	119	76.2	-2.4
2	2390.00	50.5 AV	54.0	-3.5	2.03 H	119	52.9	-2.4
3	*2412.00	112.4 PK			2.03 H	119	114.8	-2.4
4	*2412.00	101.3 AV			2.03 H	119	103.7	-2.4
5	4824.00	40.3 PK	74.0	-33.7	1.68 H	70	38.1	2.2
6	4824.00	29.4 AV	54.0	-24.6	1.68 H	70	27.2	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.2 PK	74.0	-4.8	1.36 V	143	71.6	-2.4
2	2390.00	46.3 AV	54.0	-7.7	1.36 V	143	48.7	-2.4
3	*2412.00	105.2 PK			1.36 V	143	107.6	-2.4
4	*2412.00	94.7 AV			1.36 V	143	97.1	-2.4
5	4824.00	40.6 PK	74.0	-33.4	1.54 V	309	38.4	2.2
6	4824.00	29.6 AV	54.0	-24.4	1.54 V	309	27.4	2.2

REMARKS:

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

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

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	69.4 PK	74.0	-4.6	2.01 H	119	71.8	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.01 H	119	56.0	-2.4
3	*2437.00	115.9 PK			2.01 H	119	118.3	-2.4
4	*2437.00	105.3 AV			2.01 H	119	107.7	-2.4
5	2483.50	72.8 PK	74.0	-1.2	2.01 H	119	75.3	-2.5
6	2483.50	53.7 AV	54.0	-0.3	2.01 H	119	56.2	-2.5
7	4874.00	40.6 PK	74.0	-33.4	1.73 H	52	38.5	2.1
8	4874.00	29.3 AV	54.0	-24.7	1.73 H	52	27.2	2.1
9	7311.00	46.3 PK	74.0	-27.7	1.61 H	36	38.2	8.1
10	7311.00	35.2 AV	54.0	-18.8	1.61 H	36	27.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.4 PK	74.0	-4.6	1.38 V	144	71.8	-2.4
2	2390.00	46.6 AV	54.0	-7.4	1.38 V	144	49.0	-2.4
3	*2437.00	109.2 PK			1.38 V	144	111.6	-2.4
4	*2437.00	98.7 AV			1.38 V	144	101.1	-2.4
5	2483.50	68.8 PK	74.0	-5.2	1.38 V	144	71.3	-2.5
6	2483.50	46.1 AV	54.0	-7.9	1.38 V	144	48.6	-2.5
7	4874.00	41.0 PK	74.0	-33.0	1.47 V	330	38.9	2.1
8	4874.00	29.8 AV	54.0	-24.2	1.47 V	330	27.7	2.1
9	7311.00	47.0 PK	74.0	-27.0	1.06 V	79	38.9	8.1
10	7311.00	35.7 AV	54.0	-18.3	1.06 V	79	27.6	8.1

REMARKS:

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

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

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	110.2 PK			2.05 H	330	112.7	-2.5
2	*2462.00	99.8 AV			2.05 H	330	102.3	-2.5
3	2483.50	73.8 PK	74.0	-0.2	2.05 H	330	76.3	-2.5
4	2483.50	47.1 AV	54.0	-6.9	2.05 H	330	49.6	-2.5
5	4924.00	40.6 PK	74.0	-33.4	1.71 H	68	38.5	2.1
6	4924.00	29.5 AV	54.0	-24.5	1.71 H	68	27.4	2.1
7	7386.00	46.1 PK	74.0	-27.9	1.57 H	34	37.8	8.3
8	7386.00	34.8 AV	54.0	-19.2	1.57 H	34	26.5	8.3
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	105.1 PK			1.39 V	152	107.6	-2.5
2	*2462.00	94.7 AV			1.39 V	152	97.2	-2.5
3	2483.50	67.7 PK	74.0	-6.3	1.39 V	152	70.2	-2.5
4	2483.50	44.9 AV	54.0	-9.1	1.39 V	152	47.4	-2.5
5	4924.00	41.0 PK	74.0	-33.0	1.49 V	303	38.9	2.1
6	4924.00	29.8 AV	54.0	-24.2	1.49 V	303	27.7	2.1
7	7386.00	45.9 PK	74.0	-28.1	1.05 V	77	37.6	8.3
8	7386.00	34.5 AV	54.0	-19.5	1.05 V	77	26.2	8.3

REMARKS:

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

802.11ax (HE20)

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

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	71.6 PK	74.0	-2.4	1.80 H	118	74.0	-2.4
2	2390.00	53.7 AV	54.0	-0.3	1.80 H	118	56.1	-2.4
3	*2412.00	111.6 PK			1.80 H	118	114.0	-2.4
4	*2412.00	103.0 AV			1.80 H	118	105.4	-2.4
5	4824.00	40.5 PK	74.0	-33.5	1.71 H	50	38.3	2.2
6	4824.00	29.5 AV	54.0	-24.5	1.71 H	50	27.3	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	1.43 V	150	69.3	-2.4
2	2390.00	49.7 AV	54.0	-4.3	1.43 V	150	52.1	-2.4
3	*2412.00	106.3 PK			1.43 V	150	108.7	-2.4
4	*2412.00	95.7 AV			1.43 V	150	98.1	-2.4
5	4824.00	41.6 PK	74.0	-32.4	1.54 V	315	39.4	2.2
6	4824.00	30.1 AV	54.0	-23.9	1.54 V	315	27.9	2.2

REMARKS:

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

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

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	68.2 PK	74.0	-5.8	2.02 H	120	70.6	-2.4
2	2390.00	53.7 AV	54.0	-0.3	2.02 H	120	56.1	-2.4
3	*2437.00	115.1 PK			2.02 H	120	117.5	-2.4
4	*2437.00	106.1 AV			2.02 H	120	108.5	-2.4
5	2483.50	70.4 PK	74.0	-3.6	2.02 H	120	72.9	-2.5
6	2483.50	53.7 AV	54.0	-0.3	2.02 H	120	56.2	-2.5
7	4874.00	40.5 PK	74.0	-33.5	1.66 H	62	38.4	2.1
8	4874.00	29.4 AV	54.0	-24.6	1.66 H	62	27.3	2.1
9	7311.00	45.8 PK	74.0	-28.2	1.55 H	29	37.7	8.1
10	7311.00	34.8 AV	54.0	-19.2	1.55 H	29	26.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.8 PK	74.0	-9.2	1.34 V	167	67.2	-2.4
2	2390.00	49.7 AV	54.0	-4.3	1.34 V	167	52.1	-2.4
3	*2437.00	108.2 PK			1.34 V	167	110.6	-2.4
4	*2437.00	98.4 AV			1.34 V	167	100.8	-2.4
5	2483.50	65.2 PK	74.0	-8.8	1.34 V	167	67.7	-2.5
6	2483.50	50.0 AV	54.0	-4.0	1.34 V	167	52.5	-2.5
7	4874.00	41.5 PK	74.0	-32.5	1.52 V	322	39.4	2.1
8	4874.00	30.0 AV	54.0	-24.0	1.52 V	322	27.9	2.1
9	7311.00	46.6 PK	74.0	-27.4	1.01 V	81	38.5	8.1
10	7311.00	35.2 AV	54.0	-18.8	1.01 V	81	27.1	8.1

REMARKS:

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

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

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	110.3 PK			2.00 H	329	112.8	-2.5
2	*2462.00	101.6 AV			2.00 H	329	104.1	-2.5
3	2483.50	73.5 PK	74.0	-0.5	2.00 H	329	76.0	-2.5
4	2483.50	51.1 AV	54.0	-2.9	2.00 H	329	53.6	-2.5
5	4924.00	40.2 PK	74.0	-33.8	1.74 H	66	38.1	2.1
6	4924.00	29.3 AV	54.0	-24.7	1.74 H	66	27.2	2.1
7	7386.00	46.2 PK	74.0	-27.8	1.61 H	27	37.9	8.3
8	7386.00	34.6 AV	54.0	-19.4	1.61 H	27	26.3	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.6 PK			1.38 V	140	109.1	-2.5
2	*2462.00	96.0 AV			1.38 V	140	98.5	-2.5
3	2483.50	69.0 PK	74.0	-5.0	1.38 V	140	71.5	-2.5
4	2483.50	46.3 AV	54.0	-7.7	1.38 V	140	48.8	-2.5
5	4924.00	41.4 PK	74.0	-32.6	1.46 V	324	39.3	2.1
6	4924.00	29.9 AV	54.0	-24.1	1.46 V	324	27.8	2.1
7	7386.00	47.3 PK	74.0	-26.7	1.01 V	72	39.0	8.3
8	7386.00	36.2 AV	54.0	-17.8	1.01 V	72	27.9	8.3

REMARKS:

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

802.11ax (HE40)

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

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	70.4 PK	74.0	-3.6	1.82 H	117	72.8	-2.4
2	2390.00	53.7 AV	54.0	-0.3	1.82 H	117	56.1	-2.4
3	*2422.00	107.0 PK			1.82 H	117	109.4	-2.4
4	*2422.00	98.1 AV			1.82 H	117	100.5	-2.4
5	4844.00	40.3 PK	74.0	-33.7	1.70 H	69	38.1	2.2
6	4844.00	29.3 AV	54.0	-24.7	1.70 H	69	27.1	2.2
7	7266.00	46.3 PK	74.0	-27.7	1.62 H	43	38.3	8.0
8	7266.00	35.0 AV	54.0	-19.0	1.62 H	43	27.0	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.5 PK	74.0	-8.5	1.37 V	151	67.9	-2.4
2	2390.00	50.1 AV	54.0	-3.9	1.37 V	151	52.5	-2.4
3	*2422.00	104.7 PK			1.37 V	151	107.1	-2.4
4	*2422.00	94.4 AV			1.37 V	151	96.8	-2.4
5	4844.00	40.7 PK	74.0	-33.3	1.51 V	315	38.5	2.2
6	4844.00	29.3 AV	54.0	-24.7	1.51 V	315	27.1	2.2
7	7266.00	46.8 PK	74.0	-27.2	1.01 V	81	38.8	8.0
8	7266.00	35.6 AV	54.0	-18.4	1.01 V	81	27.6	8.0

REMARKS:

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

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

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	69.2 PK	74.0	-4.8	1.99 H	118	71.6	-2.4
2	2390.00	53.8 AV	54.0	-0.2	1.99 H	118	56.2	-2.4
3	*2437.00	109.2 PK			1.99 H	118	111.6	-2.4
4	*2437.00	100.3 AV			1.99 H	118	102.7	-2.4
5	2483.50	71.2 PK	74.0	-2.8	1.99 H	118	73.7	-2.5
6	2483.50	53.8 AV	54.0	-0.2	1.99 H	118	56.3	-2.5
7	4874.00	40.4 PK	74.0	-33.6	1.65 H	69	38.3	2.1
8	4874.00	29.5 AV	54.0	-24.5	1.65 H	69	27.4	2.1
9	7311.00	46.2 PK	74.0	-27.8	1.53 H	38	38.1	8.1
10	7311.00	34.6 AV	54.0	-19.4	1.53 H	38	26.5	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.9 PK	74.0	-9.1	1.35 V	162	67.3	-2.4
2	2390.00	49.9 AV	54.0	-4.1	1.35 V	162	52.3	-2.4
3	*2437.00	106.2 PK			1.35 V	162	108.6	-2.4
4	*2437.00	96.0 AV			1.35 V	162	98.4	-2.4
5	2483.50	64.6 PK	74.0	-9.4	1.35 V	162	67.1	-2.5
6	2483.50	49.3 AV	54.0	-4.7	1.35 V	162	51.8	-2.5
7	4874.00	40.7 PK	74.0	-33.3	1.48 V	336	38.6	2.1
8	4874.00	29.6 AV	54.0	-24.4	1.48 V	336	27.5	2.1
9	7311.00	46.5 PK	74.0	-27.5	1.07 V	63	38.4	8.1
10	7311.00	35.4 AV	54.0	-18.6	1.07 V	63	27.3	8.1

REMARKS:

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

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

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	107.9 PK			2.04 H	330	110.4	-2.5
2	*2452.00	99.3 AV			2.04 H	330	101.8	-2.5
3	2483.50	73.3 PK	74.0	-0.7	2.04 H	330	75.8	-2.5
4	2483.50	53.5 AV	54.0	-0.5	2.04 H	330	56.0	-2.5
5	4904.00	40.3 PK	74.0	-33.7	1.72 H	57	38.3	2.0
6	4904.00	29.2 AV	54.0	-24.8	1.72 H	57	27.2	2.0
7	7356.00	45.9 PK	74.0	-28.1	1.58 H	31	37.7	8.2
8	7356.00	34.7 AV	54.0	-19.3	1.58 H	31	26.5	8.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.5 PK			1.38 V	160	108.0	-2.5
2	*2452.00	95.1 AV			1.38 V	160	97.6	-2.5
3	2483.50	64.3 PK	74.0	-9.7	1.38 V	160	66.8	-2.5
4	2483.50	49.5 AV	54.0	-4.5	1.38 V	160	52.0	-2.5
5	4904.00	41.5 PK	74.0	-32.5	1.46 V	323	39.5	2.0
6	4904.00	30.2 AV	54.0	-23.8	1.46 V	323	28.2	2.0
7	7356.00	47.0 PK	74.0	-27.0	1.11 V	68	38.8	8.2
8	7356.00	35.6 AV	54.0	-18.4	1.11 V	68	27.4	8.2

REMARKS:

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

4.1.12 Test Results (Mode 6)

Above 1GHz Data:

802.11b

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

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	61.7 PK	74.0	-12.3	1.36 H	66	64.1	-2.4
2	2390.00	53.6 AV	54.0	-0.4	1.36 H	66	56.0	-2.4
3	*2412.00	112.7 PK			1.36 H	66	115.1	-2.4
4	*2412.00	110.1 AV			1.36 H	66	112.5	-2.4
5	4824.00	42.3 PK	74.0	-31.7	4.00 H	80	40.1	2.2
6	4824.00	38.5 AV	54.0	-15.5	4.00 H	80	36.3	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	60.2 PK	74.0	-13.8	1.02 V	17	62.6	-2.4
2	2390.00	50.8 AV	54.0	-3.2	1.02 V	17	53.2	-2.4
3	*2412.00	108.9 PK			1.02 V	17	111.3	-2.4
4	*2412.00	106.2 AV			1.02 V	17	108.6	-2.4
5	4824.00	42.6 PK	74.0	-31.4	3.88 V	14	40.4	2.2
6	4824.00	37.1 AV	54.0	-16.9	3.88 V	14	34.9	2.2

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	1.50 H	66	59.1	-2.4
2	2390.00	44.0 AV	54.0	-10.0	1.50 H	66	46.4	-2.4
3	*2437.00	112.9 PK			1.50 H	66	115.3	-2.4
4	*2437.00	110.5 AV			1.50 H	66	112.9	-2.4
5	2483.50	58.8 PK	74.0	-15.2	1.50 H	66	61.3	-2.5
6	2483.50	45.8 AV	54.0	-8.2	1.50 H	66	48.3	-2.5
7	4874.00	43.1 PK	74.0	-30.9	2.40 H	88	41.0	2.1
8	4874.00	38.7 AV	54.0	-15.3	2.40 H	88	36.6	2.1
9	7311.00	52.1 PK	74.0	-21.9	1.50 H	51	44.0	8.1
10	7311.00	47.8 AV	54.0	-6.2	1.50 H	51	39.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	1.13 V	26	58.2	-2.4
2	2390.00	43.3 AV	54.0	-10.7	1.13 V	26	45.7	-2.4
3	*2437.00	108.9 PK			1.13 V	26	111.3	-2.4
4	*2437.00	106.6 AV			1.13 V	26	109.0	-2.4
5	2483.50	58.4 PK	74.0	-15.6	1.13 V	26	60.9	-2.5
6	2483.50	45.2 AV	54.0	-8.8	1.13 V	26	47.7	-2.5
7	4874.00	42.4 PK	74.0	-31.6	3.92 V	14	40.3	2.1
8	4874.00	36.7 AV	54.0	-17.3	3.92 V	14	34.6	2.1
9	7311.00	50.1 PK	74.0	-23.9	2.97 V	360	42.0	8.1
10	7311.00	45.0 AV	54.0	-9.0	2.97 V	360	36.9	8.1

REMARKS:

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

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

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	111.3 PK			1.50 H	302	113.8	-2.5
2	*2462.00	108.6 AV			1.50 H	302	111.1	-2.5
3	2483.50	62.9 PK	74.0	-11.1	1.50 H	302	65.4	-2.5
4	**2483.50**	**53.9 AV**	**54.0**	**-0.1**	**1.50 H**	**302**	**56.4**	**-2.5**
5	4924.00	42.8 PK	74.0	-31.2	3.94 H	74	40.7	2.1
6	4924.00	38.9 AV	54.0	-15.1	3.94 H	74	36.8	2.1
7	7386.00	53.4 PK	74.0	-20.6	1.50 H	60	45.1	8.3
8	7386.00	48.6 AV	54.0	-5.4	1.50 H	60	40.3	8.3
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	107.3 PK			1.13 V	18	109.8	-2.5
2	*2462.00	104.9 AV			1.13 V	18	107.4	-2.5
3	2483.50	59.7 PK	74.0	-14.3	1.13 V	18	62.2	-2.5
4	2483.50	50.5 AV	54.0	-3.5	1.13 V	18	53.0	-2.5
5	4924.00	42.6 PK	74.0	-31.4	3.94 V	1	40.5	2.1
6	4924.00	36.9 AV	54.0	-17.1	3.94 V	1	34.8	2.1
7	7386.00	50.1 PK	74.0	-23.9	3.02 V	360	41.8	8.3
8	7386.00	45.2 AV	54.0	-8.8	3.02 V	360	36.9	8.3

REMARKS:

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

802.11g

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

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	73.6 PK	74.0	-0.4	1.21 H	292	76.0	-2.4
2	2390.00	52.0 AV	54.0	-2.0	1.21 H	292	54.4	-2.4
3	*2412.00	109.1 PK			1.21 H	292	111.5	-2.4
4	*2412.00	99.6 AV			1.21 H	292	102.0	-2.4
5	4824.00	40.5 PK	74.0	-33.5	2.76 H	69	38.3	2.2
6	4824.00	28.6 AV	54.0	-25.4	2.76 H	69	26.4	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.5 PK	74.0	-4.5	1.12 V	18	71.9	-2.4
2	2390.00	48.2 AV	54.0	-5.8	1.12 V	18	50.6	-2.4
3	*2412.00	105.3 PK			1.12 V	18	107.7	-2.4
4	*2412.00	95.7 AV			1.12 V	18	98.1	-2.4
5	4824.00	41.0 PK	74.0	-33.0	3.87 V	12	38.8	2.2
6	4824.00	29.0 AV	54.0	-25.0	3.87 V	12	26.8	2.2

REMARKS:

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

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

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	65.9 PK	74.0	-8.1	1.70 H	308	68.3	-2.4
2	2390.00	50.7 AV	54.0	-3.3	1.70 H	308	53.1	-2.4
3	*2437.00	113.2 PK			1.70 H	308	115.6	-2.4
4	*2437.00	103.4 AV			1.70 H	308	105.8	-2.4
5	2483.50	65.7 PK	74.0	-8.3	1.70 H	308	68.2	-2.5
6	2483.50	50.6 AV	54.0	-3.4	1.70 H	308	53.1	-2.5
7	4874.00	40.5 PK	74.0	-33.5	2.78 H	83	38.4	2.1
8	4874.00	28.1 AV	54.0	-25.9	2.78 H	83	26.0	2.1
9	7311.00	54.5 PK	74.0	-19.5	1.50 H	49	46.4	8.1
10	7311.00	42.2 AV	54.0	-11.8	1.50 H	49	34.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.0 PK	74.0	-12.0	1.08 V	19	64.4	-2.4
2	2390.00	46.7 AV	54.0	-7.3	1.08 V	19	49.1	-2.4
3	*2437.00	109.6 PK			1.08 V	19	112.0	-2.4
4	*2437.00	99.4 AV			1.08 V	19	101.8	-2.4
5	2483.50	61.8 PK	74.0	-12.2	1.08 V	19	64.3	-2.5
6	2483.50	46.5 AV	54.0	-7.5	1.08 V	19	49.0	-2.5
7	4874.00	40.5 PK	74.0	-33.5	3.93 V	5	38.4	2.1
8	4874.00	28.4 AV	54.0	-25.6	3.93 V	5	26.3	2.1
9	7311.00	51.4 PK	74.0	-22.6	2.98 V	360	43.3	8.1
10	7311.00	39.0 AV	54.0	-15.0	2.98 V	360	30.9	8.1

REMARKS:

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

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

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	109.1 PK			1.64 H	283	111.6	-2.5
2	*2462.00	99.1 AV			1.64 H	283	101.6	-2.5
3	2483.50	73.8 PK	74.0	-0.2	1.64 H	283	76.3	-2.5
4	2483.50	49.7 AV	54.0	-4.3	1.64 H	283	52.2	-2.5
5	4924.00	40.6 PK	74.0	-33.4	2.75 H	88	38.5	2.1
6	4924.00	28.4 AV	54.0	-25.6	2.75 H	88	26.3	2.1
7	7386.00	52.0 PK	74.0	-22.0	1.48 H	53	43.7	8.3
8	7386.00	39.8 AV	54.0	-14.2	1.48 H	53	31.5	8.3
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	105.3 PK			1.21 V	25	107.8	-2.5
2	*2462.00	95.0 AV			1.21 V	25	97.5	-2.5
3	2483.50	70.1 PK	74.0	-3.9	1.21 V	25	72.6	-2.5
4	2483.50	46.0 AV	54.0	-8.0	1.21 V	25	48.5	-2.5
5	4924.00	40.6 PK	74.0	-33.4	3.88 V	19	38.5	2.1
6	4924.00	28.4 AV	54.0	-25.6	3.88 V	19	26.3	2.1
7	7386.00	49.2 PK	74.0	-24.8	3.08 V	360	40.9	8.3
8	7386.00	36.9 AV	54.0	-17.1	3.08 V	360	28.6	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.3 PK	74.0	-0.7	1.28 H	294	75.7	-2.4
2	2390.00	53.8 AV	54.0	-0.2	1.28 H	294	56.2	-2.4
3	*2412.00	111.7 PK			1.28 H	294	114.1	-2.4
4	*2412.00	98.1 AV			1.28 H	294	100.5	-2.4
5	4824.00	39.8 PK	74.0	-34.2	2.67 H	48	37.6	2.2
6	4824.00	27.8 AV	54.0	-26.2	2.67 H	48	25.6	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.7 PK	74.0	-4.3	1.47 V	45	72.1	-2.4
2	2390.00	50.0 AV	54.0	-4.0	1.47 V	45	52.4	-2.4
3	*2412.00	108.8 PK			1.47 V	45	111.2	-2.4
4	*2412.00	95.2 AV			1.47 V	45	97.6	-2.4
5	4824.00	39.8 PK	74.0	-34.2	4.00 V	9	37.6	2.2
6	4824.00	27.9 AV	54.0	-26.1	4.00 V	9	25.7	2.2

REMARKS:

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

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

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	67.8 PK	74.0	-6.2	2.07 H	305	70.2	-2.4
2	2390.00	51.7 AV	54.0	-2.3	2.07 H	305	54.1	-2.4
3	*2437.00	115.6 PK			2.07 H	305	118.0	-2.4
4	*2437.00	102.3 AV			2.07 H	305	104.7	-2.4
5	2483.50	66.6 PK	74.0	-7.4	2.07 H	305	69.1	-2.5
6	2483.50	51.6 AV	54.0	-2.4	2.07 H	305	54.1	-2.5
7	4874.00	40.0 PK	74.0	-34.0	2.75 H	68	37.9	2.1
8	4874.00	27.9 AV	54.0	-26.1	2.75 H	68	25.8	2.1
9	7311.00	55.2 PK	74.0	-18.8	1.47 H	59	47.1	8.1
10	7311.00	43.0 AV	54.0	-11.0	1.47 H	59	34.9	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.2 PK	74.0	-9.8	1.52 V	44	66.6	-2.4
2	2390.00	47.9 AV	54.0	-6.1	1.52 V	44	50.3	-2.4
3	*2437.00	113.3 PK			1.52 V	44	115.7	-2.4
4	*2437.00	98.9 AV			1.52 V	44	101.3	-2.4
5	2483.50	63.7 PK	74.0	-10.3	1.52 V	44	66.2	-2.5
6	2483.50	47.5 AV	54.0	-6.5	1.52 V	44	50.0	-2.5
7	4874.00	39.9 PK	74.0	-34.1	3.96 V	13	37.8	2.1
8	4874.00	28.0 AV	54.0	-26.0	3.96 V	13	25.9	2.1
9	7311.00	52.4 PK	74.0	-21.6	2.95 V	360	44.3	8.1
10	7311.00	39.9 AV	54.0	-14.1	2.95 V	360	31.8	8.1

REMARKS:

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

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

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	110.8 PK			1.85 H	84	113.3	-2.5
2	*2462.00	98.0 AV			1.85 H	84	100.5	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**1.85 H**	**84**	**76.4**	**-2.5**
4	2483.50	51.4 AV	54.0	-2.6	1.85 H	84	53.9	-2.5
5	4924.00	40.4 PK	74.0	-33.6	2.70 H	57	38.3	2.1
6	4924.00	28.2 AV	54.0	-25.8	2.70 H	57	26.1	2.1
7	7386.00	54.2 PK	74.0	-19.8	1.45 H	52	45.9	8.3
8	7386.00	42.1 AV	54.0	-11.9	1.45 H	52	33.8	8.3

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	107.5 PK			1.52 V	43	110.0	-2.5
2	*2462.00	94.9 AV			1.52 V	43	97.4	-2.5
3	2483.50	69.2 PK	74.0	-4.8	1.52 V	43	71.7	-2.5
4	2483.50	47.6 AV	54.0	-6.4	1.52 V	43	50.1	-2.5
5	4924.00	40.2 PK	74.0	-33.8	3.94 V	20	38.1	2.1
6	4924.00	28.4 AV	54.0	-25.6	3.94 V	20	26.3	2.1
7	7386.00	50.8 PK	74.0	-23.2	2.97 V	360	42.5	8.3
8	7386.00	38.4 AV	54.0	-15.6	2.97 V	360	30.1	8.3

REMARKS:

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

802.11ax (HE40)

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

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	1.72 H	79	73.2	-2.4
2	2390.00	53.8 AV	54.0	-0.2	1.72 H	79	56.2	-2.4
3	*2422.00	108.1 PK			1.72 H	79	110.5	-2.4
4	*2422.00	96.5 AV			1.72 H	79	98.9	-2.4
5	4844.00	41.1 PK	74.0	-32.9	2.66 H	49	38.9	2.2
6	4844.00	28.6 AV	54.0	-25.4	2.66 H	49	26.4	2.2
7	7266.00	54.6 PK	74.0	-19.4	1.49 H	57	46.6	8.0
8	7266.00	42.5 AV	54.0	-11.5	1.49 H	57	34.5	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.7 PK	74.0	-7.3	1.48 V	47	69.1	-2.4
2	2390.00	49.7 AV	54.0	-4.3	1.48 V	47	52.1	-2.4
3	*2422.00	106.2 PK			1.48 V	47	108.6	-2.4
4	*2422.00	93.6 AV			1.48 V	47	96.0	-2.4
5	4844.00	40.5 PK	74.0	-33.5	3.99 V	31	38.3	2.2
6	4844.00	28.8 AV	54.0	-25.2	3.99 V	31	26.6	2.2
7	7266.00	51.2 PK	74.0	-22.8	2.98 V	360	43.2	8.0
8	7266.00	38.7 AV	54.0	-15.3	2.98 V	360	30.7	8.0

REMARKS:

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

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

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	69.3 PK	74.0	-4.7	1.55 H	307	71.7	-2.4
2	2390.00	53.3 AV	54.0	-0.7	1.55 H	307	55.7	-2.4
3	*2437.00	109.3 PK			1.55 H	307	111.7	-2.4
4	*2437.00	97.6 AV			1.55 H	307	100.0	-2.4
5	2483.50	69.5 PK	74.0	-4.5	1.55 H	307	72.0	-2.5
6	**2483.50**	**53.9 AV**	**54.0**	**-0.1**	**1.55 H**	**307**	**56.4**	**-2.5**
7	4874.00	40.1 PK	74.0	-33.9	2.80 H	75	38.0	2.1
8	4874.00	27.8 AV	54.0	-26.2	2.80 H	75	25.7	2.1
9	7311.00	55.5 PK	74.0	-18.5	1.45 H	62	47.4	8.1
10	7311.00	43.2 AV	54.0	-10.8	1.45 H	62	35.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.8 PK	74.0	-8.2	1.45 V	40	68.2	-2.4
2	2390.00	49.7 AV	54.0	-4.3	1.45 V	40	52.1	-2.4
3	*2437.00	107.8 PK			1.45 V	40	110.2	-2.4
4	*2437.00	94.8 AV			1.45 V	40	97.2	-2.4
5	2483.50	65.9 PK	74.0	-8.1	1.45 V	40	68.4	-2.5
6	2483.50	49.9 AV	54.0	-4.1	1.45 V	40	52.4	-2.5
7	4874.00	39.8 PK	74.0	-34.2	4.00 V	17	37.7	2.1
8	4874.00	27.9 AV	54.0	-26.1	4.00 V	17	25.8	2.1
9	7311.00	52.3 PK	74.0	-21.7	2.97 V	360	44.2	8.1
10	7311.00	40.0 AV	54.0	-14.0	2.97 V	360	31.9	8.1

REMARKS:

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

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

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	107.8 PK			1.48 H	286	110.3	-2.5
2	*2452.00	95.7 AV			1.48 H	286	98.2	-2.5
3	2483.50	71.9 PK	74.0	-2.1	1.48 H	286	74.4	-2.5
4	2483.50	53.5 AV	54.0	-0.5	1.48 H	286	56.0	-2.5
5	4904.00	40.3 PK	74.0	-33.7	2.64 H	61	38.3	2.0
6	4904.00	28.1 AV	54.0	-25.9	2.64 H	61	26.1	2.0
7	7356.00	54.8 PK	74.0	-19.2	1.49 H	49	46.6	8.2
8	7356.00	42.4 AV	54.0	-11.6	1.49 H	49	34.2	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.8 PK			1.53 V	35	108.3	-2.5
2	*2452.00	93.1 AV			1.53 V	35	95.6	-2.5
3	2483.50	66.7 PK	74.0	-7.3	1.53 V	35	69.2	-2.5
4	2483.50	49.6 AV	54.0	-4.4	1.53 V	35	52.1	-2.5
5	4904.00	40.1 PK	74.0	-33.9	3.88 V	35	38.1	2.0
6	4904.00	28.3 AV	54.0	-25.7	3.88 V	35	26.3	2.0
7	7356.00	51.0 PK	74.0	-23.0	2.93 V	360	42.8	8.2
8	7356.00	38.7 AV	54.0	-15.3	2.93 V	360	30.5	8.2

REMARKS:

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

Below 1GHz Data:

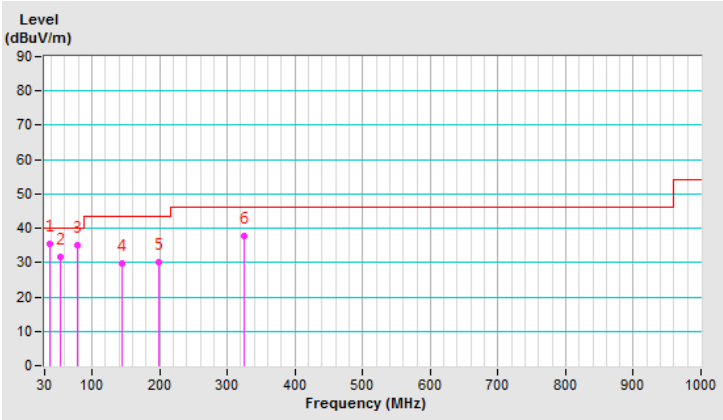
802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	37.24	35.6 QP	40.0	-4.4	2.00 H	56	44.0	-8.4
2	53.81	31.6 QP	40.0	-8.4	2.00 H	148	39.5	-7.9
3	78.97	34.9 QP	40.0	-5.1	3.00 H	147	47.3	-12.4
4	143.51	29.6 QP	43.5	-13.9	1.50 H	101	36.8	-7.2
5	198.93	30.1 QP	43.5	-13.4	1.50 H	101	40.5	-10.4
6	324.28	37.7 QP	46.0	-8.3	1.00 H	60	43.2	-5.5

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

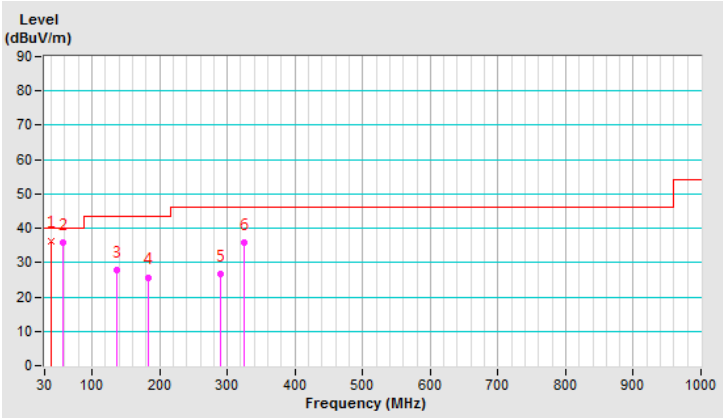


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.98	36.4 QP	40.0	-3.6	1.00 V	10	44.6	-8.2
2	57.74	35.9 QP	40.0	-4.1	3.00 V	360	44.3	-8.4
3	137.19	27.7 QP	43.5	-15.8	1.00 V	360	35.5	-7.8
4	182.38	25.7 QP	43.5	-17.8	1.50 V	3	34.7	-9.0
5	290.84	26.8 QP	46.0	-19.2	1.00 V	83	33.5	-6.7
6	325.53	35.7 QP	46.0	-10.3	1.50 V	91	41.1	-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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.13 Test Results (Mode 7)

Above 1GHz Data:

802.11b

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

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	62.1 PK	74.0	-11.9	1.79 H	54	64.5	-2.4
2	**2390.00**	**53.9 AV**	**54.0**	**-0.1**	**1.79 H**	**54**	**56.3**	**-2.4**
3	*2412.00	113.6 PK			1.79 H	54	116.0	-2.4
4	*2412.00	111.2 AV			1.79 H	54	113.6	-2.4
5	4824.00	52.6 PK	74.0	-21.4	2.45 H	323	50.4	2.2
6	4824.00	51.1 AV	54.0	-2.9	2.45 H	323	48.9	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	58.1 PK	74.0	-15.9	2.07 V	178	60.5	-2.4
2	2390.00	49.7 AV	54.0	-4.3	2.07 V	178	52.1	-2.4
3	*2412.00	110.8 PK			2.07 V	178	113.2	-2.4
4	*2412.00	108.3 AV			2.07 V	178	110.7	-2.4
5	4824.00	46.0 PK	74.0	-28.0	1.60 V	286	43.8	2.2
6	4824.00	42.9 AV	54.0	-11.1	1.60 V	286	40.7	2.2

REMARKS:

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

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

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	60.9 PK	74.0	-13.1	1.73 H	53	63.3	-2.4
2	2390.00	48.8 AV	54.0	-5.2	1.73 H	53	51.2	-2.4
3	*2437.00	115.1 PK			1.73 H	53	117.5	-2.4
4	*2437.00	112.8 AV			1.73 H	53	115.2	-2.4
5	2483.50	59.4 PK	74.0	-14.6	1.73 H	53	61.9	-2.5
6	2483.50	49.0 AV	54.0	-5.0	1.73 H	53	51.5	-2.5
7	4874.00	55.5 PK	74.0	-18.5	2.50 H	337	53.4	2.1
8	**4874.00**	**53.9 AV**	**54.0**	**-0.1**	**2.50 H**	**337**	**51.8**	**2.1**
9	7311.00	55.6 PK	74.0	-18.4	1.39 H	346	47.5	8.1
10	7311.00	52.3 AV	54.0	-1.7	1.39 H	346	44.2	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.97 V	177	59.4	-2.4
2	2390.00	44.8 AV	54.0	-9.2	1.97 V	177	47.2	-2.4
3	*2437.00	112.4 PK			1.97 V	177	114.8	-2.4
4	*2437.00	109.9 AV			1.97 V	177	112.3	-2.4
5	2483.50	55.7 PK	74.0	-18.3	1.97 V	177	58.2	-2.5
6	2483.50	45.1 AV	54.0	-8.9	1.97 V	177	47.6	-2.5
7	4874.00	47.3 PK	74.0	-26.7	1.55 V	281	45.2	2.1
8	4874.00	44.4 AV	54.0	-9.6	1.55 V	281	42.3	2.1
9	7311.00	52.6 PK	74.0	-21.4	2.27 V	118	44.5	8.1
10	7311.00	48.5 AV	54.0	-5.5	2.27 V	118	40.4	8.1

REMARKS:

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

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

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	114.1 PK			1.68 H	52	116.6	-2.5
2	*2462.00	111.7 AV			1.68 H	52	114.2	-2.5
3	2483.50	60.7 PK	74.0	-13.3	1.68 H	52	63.2	-2.5
4	2483.50	53.6 AV	54.0	-0.4	1.68 H	52	56.1	-2.5
5	4924.00	52.4 PK	74.0	-21.6	2.48 H	339	50.3	2.1
6	4924.00	50.7 AV	54.0	-3.3	2.48 H	339	48.6	2.1
7	7386.00	52.6 PK	74.0	-21.4	1.38 H	355	44.3	8.3
8	7386.00	49.0 AV	54.0	-5.0	1.38 H	355	40.7	8.3

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	111.4 PK			2.02 V	207	113.9	-2.5
2	*2462.00	108.8 AV			2.02 V	207	111.3	-2.5
3	2483.50	56.9 PK	74.0	-17.1	2.02 V	207	59.4	-2.5
4	2483.50	49.5 AV	54.0	-4.5	2.02 V	207	52.0	-2.5
5	4924.00	46.0 PK	74.0	-28.0	1.60 V	280	43.9	2.1
6	4924.00	43.2 AV	54.0	-10.8	1.60 V	280	41.1	2.1
7	7386.00	51.6 PK	74.0	-22.4	2.22 V	129	43.3	8.3
8	7386.00	47.2 AV	54.0	-6.8	2.22 V	129	38.9	8.3

REMARKS:

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

802.11g

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

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	73.8 PK	74.0	-0.2	2.87 H	52	76.2	-2.4
2	2390.00	48.3 AV	54.0	-5.7	2.87 H	52	50.7	-2.4
3	*2412.00	111.3 PK			2.87 H	52	113.7	-2.4
4	*2412.00	101.6 AV			2.87 H	52	104.0	-2.4
5	4824.00	48.3 PK	74.0	-25.7	2.58 H	337	46.1	2.2
6	4824.00	35.4 AV	54.0	-18.6	2.58 H	337	33.2	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	2.00 V	219	71.1	-2.4
2	2390.00	45.1 AV	54.0	-8.9	2.00 V	219	47.5	-2.4
3	*2412.00	106.8 PK			2.00 V	219	109.2	-2.4
4	*2412.00	95.3 AV			2.00 V	219	97.7	-2.4
5	4824.00	43.8 PK	74.0	-30.2	1.62 V	243	41.6	2.2
6	4824.00	31.5 AV	54.0	-22.5	1.62 V	243	29.3	2.2

REMARKS:

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

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

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	69.8 PK	74.0	-4.2	2.82 H	52	72.2	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.82 H	52	56.0	-2.4
3	*2437.00	116.7 PK			2.82 H	52	119.1	-2.4
4	*2437.00	106.9 AV			2.82 H	52	109.3	-2.4
5	2483.50	69.7 PK	74.0	-4.3	2.82 H	52	72.2	-2.5
6	2483.50	51.4 AV	54.0	-2.6	2.82 H	52	53.9	-2.5
7	4874.00	52.3 PK	74.0	-21.7	2.51 H	333	50.2	2.1
8	4874.00	40.2 AV	54.0	-13.8	2.51 H	333	38.1	2.1
9	7311.00	56.1 PK	74.0	-17.9	1.32 H	344	48.0	8.1
10	7311.00	43.6 AV	54.0	-10.4	1.32 H	344	35.5	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.4 PK	74.0	-13.6	1.99 V	218	62.8	-2.4
2	2390.00	45.8 AV	54.0	-8.2	1.99 V	218	48.2	-2.4
3	*2437.00	110.4 PK			1.99 V	218	112.8	-2.4
4	*2437.00	100.0 AV			1.99 V	218	102.4	-2.4
5	2483.50	61.0 PK	74.0	-13.0	1.99 V	218	63.5	-2.5
6	2483.50	45.1 AV	54.0	-8.9	1.99 V	218	47.6	-2.5
7	4874.00	49.2 PK	74.0	-24.8	1.66 V	230	47.1	2.1
8	4874.00	37.1 AV	54.0	-16.9	1.66 V	230	35.0	2.1
9	7311.00	53.5 PK	74.0	-20.5	1.22 V	286	45.4	8.1
10	7311.00	40.3 AV	54.0	-13.7	1.22 V	286	32.2	8.1

REMARKS:

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

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

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	111.0 PK			2.86 H	44	113.5	-2.5
2	*2462.00	101.2 AV			2.86 H	44	103.7	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**2.86 H**	**44**	**76.4**	**-2.5**
4	2483.50	48.4 AV	54.0	-5.6	2.86 H	44	50.9	-2.5
5	4924.00	47.8 PK	74.0	-26.2	2.58 H	357	45.7	2.1
6	4924.00	35.1 AV	54.0	-18.9	2.58 H	357	33.0	2.1
7	7386.00	51.2 PK	74.0	-22.8	1.42 H	327	42.9	8.3
8	7386.00	38.2 AV	54.0	-15.8	1.42 H	327	29.9	8.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.9 PK			1.99 V	203	109.4	-2.5
2	*2462.00	95.3 AV			1.99 V	203	97.8	-2.5
3	2483.50	69.2 PK	74.0	-4.8	1.99 V	203	71.7	-2.5
4	2483.50	45.5 AV	54.0	-8.5	1.99 V	203	48.0	-2.5
5	4924.00	44.2 PK	74.0	-29.8	1.61 V	235	42.1	2.1
6	4924.00	31.5 AV	54.0	-22.5	1.61 V	235	29.4	2.1
7	7386.00	48.9 PK	74.0	-25.1	1.26 V	283	40.6	8.3
8	7386.00	35.9 AV	54.0	-18.1	1.26 V	283	27.6	8.3

REMARKS:

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

802.11ax (HE20)

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

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**	**73.9 PK**	**74.0**	**-0.1**	**2.87 H**	**52**	**76.3**	**-2.4**
2	2390.00	50.3 AV	54.0	-3.7	2.87 H	52	52.7	-2.4
3	*2412.00	114.3 PK			2.87 H	52	116.7	-2.4
4	*2412.00	100.7 AV			2.87 H	52	103.1	-2.4
5	4824.00	47.6 PK	74.0	-26.4	2.46 H	357	45.4	2.2
6	4824.00	34.7 AV	54.0	-19.3	2.46 H	357	32.5	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	1.98 V	210	70.0	-2.4
2	2390.00	44.6 AV	54.0	-9.4	1.98 V	210	47.0	-2.4
3	*2412.00	106.6 PK			1.98 V	210	109.0	-2.4
4	*2412.00	95.9 AV			1.98 V	210	98.3	-2.4
5	4824.00	44.1 PK	74.0	-29.9	1.73 V	241	41.9	2.2
6	4824.00	31.6 AV	54.0	-22.4	1.73 V	241	29.4	2.2

REMARKS:

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

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

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	70.9 PK	74.0	-3.1	2.84 H	53	73.3	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.84 H	53	56.2	-2.4
3	*2437.00	117.7 PK			2.84 H	53	120.1	-2.4
4	*2437.00	105.4 AV			2.84 H	53	107.8	-2.4
5	2483.50	69.6 PK	74.0	-4.4	2.84 H	53	72.1	-2.5
6	2483.50	51.4 AV	54.0	-2.6	2.84 H	53	53.9	-2.5
7	4874.00	51.9 PK	74.0	-22.1	2.44 H	350	49.8	2.1
8	4874.00	39.7 AV	54.0	-14.3	2.44 H	350	37.6	2.1
9	7311.00	56.8 PK	74.0	-17.2	1.37 H	348	48.7	8.1
10	7311.00	43.6 AV	54.0	-10.4	1.37 H	348	35.5	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.3 PK	74.0	-11.7	2.02 V	223	64.7	-2.4
2	2390.00	45.7 AV	54.0	-8.3	2.02 V	223	48.1	-2.4
3	*2437.00	109.7 PK			2.02 V	223	112.1	-2.4
4	*2437.00	99.9 AV			2.02 V	223	102.3	-2.4
5	2483.50	64.5 PK	74.0	-9.5	2.02 V	223	67.0	-2.5
6	2483.50	45.3 AV	54.0	-8.7	2.02 V	223	47.8	-2.5
7	4874.00	49.1 PK	74.0	-24.9	1.64 V	203	47.0	2.1
8	4874.00	37.1 AV	54.0	-16.9	1.64 V	203	35.0	2.1
9	7311.00	54.4 PK	74.0	-19.6	1.33 V	321	46.3	8.1
10	7311.00	41.1 AV	54.0	-12.9	1.33 V	321	33.0	8.1

REMARKS:

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

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

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	113.5 PK			2.90 H	43	116.0	-2.5
2	*2462.00	100.2 AV			2.90 H	43	102.7	-2.5
3	2483.50	73.8 PK	74.0	-0.2	2.90 H	43	76.3	-2.5
4	2483.50	48.5 AV	54.0	-5.5	2.90 H	43	51.0	-2.5
5	4924.00	47.1 PK	74.0	-26.9	2.48 H	353	45.0	2.1
6	4924.00	34.4 AV	54.0	-19.6	2.48 H	353	32.3	2.1
7	7386.00	51.3 PK	74.0	-22.7	1.39 H	322	43.0	8.3
8	7386.00	38.6 AV	54.0	-15.4	1.39 H	322	30.3	8.3
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	105.9 PK			1.99 V	216	108.4	-2.5
2	*2462.00	95.5 AV			1.99 V	216	98.0	-2.5
3	2483.50	67.1 PK	74.0	-6.9	1.99 V	216	69.6	-2.5
4	2483.50	44.1 AV	54.0	-9.9	1.99 V	216	46.6	-2.5
5	4924.00	44.1 PK	74.0	-29.9	1.67 V	225	42.0	2.1
6	4924.00	31.8 AV	54.0	-22.2	1.67 V	225	29.7	2.1
7	7386.00	48.4 PK	74.0	-25.6	1.26 V	296	40.1	8.3
8	7386.00	35.5 AV	54.0	-18.5	1.26 V	296	27.2	8.3

REMARKS:

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

802.11ax (HE40)

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

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	73.7 PK	74.0	-0.3	2.88 H	52	76.1	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.88 H	52	56.0	-2.4
3	*2422.00	111.2 PK			2.88 H	52	113.6	-2.4
4	*2422.00	97.8 AV			2.88 H	52	100.2	-2.4
5	4844.00	47.4 PK	74.0	-26.6	2.55 H	344	45.2	2.2
6	4844.00	34.6 AV	54.0	-19.4	2.55 H	344	32.4	2.2
7	7266.00	50.7 PK	74.0	-23.3	1.40 H	346	42.7	8.0
8	7266.00	38.4 AV	54.0	-15.6	1.40 H	346	30.4	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.6 PK	74.0	-4.4	1.98 V	227	72.0	-2.4
2	2390.00	49.6 AV	54.0	-4.4	1.98 V	227	52.0	-2.4
3	*2422.00	106.8 PK			1.98 V	227	109.2	-2.4
4	*2422.00	92.5 AV			1.98 V	227	94.9	-2.4
5	4844.00	44.1 PK	74.0	-29.9	1.59 V	215	41.9	2.2
6	4844.00	31.4 AV	54.0	-22.6	1.59 V	215	29.2	2.2
7	7266.00	48.3 PK	74.0	-25.7	1.29 V	294	40.3	8.0
8	7266.00	35.7 AV	54.0	-18.3	1.29 V	294	27.7	8.0

REMARKS:

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

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

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	71.6 PK	74.0	-2.4	2.84 H	53	74.0	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.84 H	53	56.2	-2.4
3	*2437.00	112.9 PK			2.84 H	53	115.3	-2.4
4	*2437.00	99.5 AV			2.84 H	53	101.9	-2.4
5	2483.50	69.7 PK	74.0	-4.3	2.84 H	53	72.2	-2.5
6	2483.50	50.0 AV	54.0	-4.0	2.84 H	53	52.5	-2.5
7	4874.00	47.9 PK	74.0	-26.1	2.64 H	325	45.8	2.1
8	4874.00	35.0 AV	54.0	-19.0	2.64 H	325	32.9	2.1
9	7311.00	51.7 PK	74.0	-22.3	1.36 H	341	43.6	8.1
10	7311.00	39.2 AV	54.0	-14.8	1.36 H	341	31.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.0 PK	74.0	-6.0	2.03 V	206	70.4	-2.4
2	2390.00	48.2 AV	54.0	-5.8	2.03 V	206	50.6	-2.4
3	*2437.00	106.5 PK			2.03 V	206	108.9	-2.4
4	*2437.00	93.3 AV			2.03 V	206	95.7	-2.4
5	2483.50	69.5 PK	74.0	-4.5	2.03 V	206	72.0	-2.5
6	2483.50	49.4 AV	54.0	-4.6	2.03 V	206	51.9	-2.5
7	4874.00	44.5 PK	74.0	-29.5	1.53 V	219	42.4	2.1
8	4874.00	31.7 AV	54.0	-22.3	1.53 V	219	29.6	2.1
9	7311.00	48.6 PK	74.0	-25.4	1.25 V	298	40.5	8.1
10	7311.00	35.6 AV	54.0	-18.4	1.25 V	298	27.5	8.1

REMARKS:

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

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

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	110.5 PK			2.77 H	54	113.0	-2.5
2	*2452.00	97.5 AV			2.77 H	54	100.0	-2.5
3	2483.50	73.7 PK	74.0	-0.3	2.77 H	54	76.2	-2.5
4	2483.50	49.3 AV	54.0	-4.7	2.77 H	54	51.8	-2.5
5	4904.00	47.7 PK	74.0	-26.3	2.61 H	336	45.7	2.0
6	4904.00	34.9 AV	54.0	-19.1	2.61 H	336	32.9	2.0
7	7356.00	51.4 PK	74.0	-22.6	1.40 H	333	43.2	8.2
8	7356.00	38.8 AV	54.0	-15.2	1.40 H	333	30.6	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.8 PK			2.03 V	217	109.3	-2.5
2	*2452.00	92.7 AV			2.03 V	217	95.2	-2.5
3	2483.50	70.1 PK	74.0	-3.9	2.03 V	217	72.6	-2.5
4	2483.50	50.0 AV	54.0	-4.0	2.03 V	217	52.5	-2.5
5	4904.00	44.4 PK	74.0	-29.6	1.57 V	212	42.4	2.0
6	4904.00	31.7 AV	54.0	-22.3	1.57 V	212	29.7	2.0
7	7356.00	48.6 PK	74.0	-25.4	1.28 V	304	40.4	8.2
8	7356.00	35.8 AV	54.0	-18.2	1.28 V	304	27.6	8.2

REMARKS:

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

Below 1GHz Data:

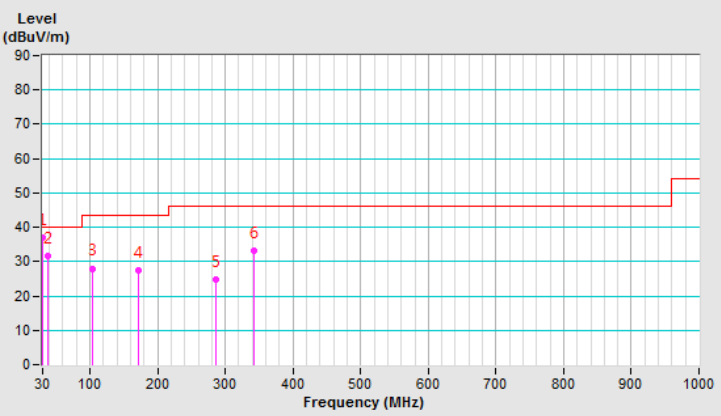
802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	30.53	37.0 QP	40.0	-3.0	1.00 H	88	45.9	-8.9
2	37.78	31.8 QP	40.0	-8.2	3.00 H	345	40.1	-8.3
3	104.23	28.0 QP	43.5	-15.5	1.50 H	215	39.1	-11.1
4	171.77	27.5 QP	43.5	-16.0	1.50 H	140	35.3	-7.8
5	285.50	24.8 QP	46.0	-21.2	1.00 H	237	31.6	-6.8
6	342.41	33.3 QP	46.0	-12.7	1.00 H	65	38.5	-5.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

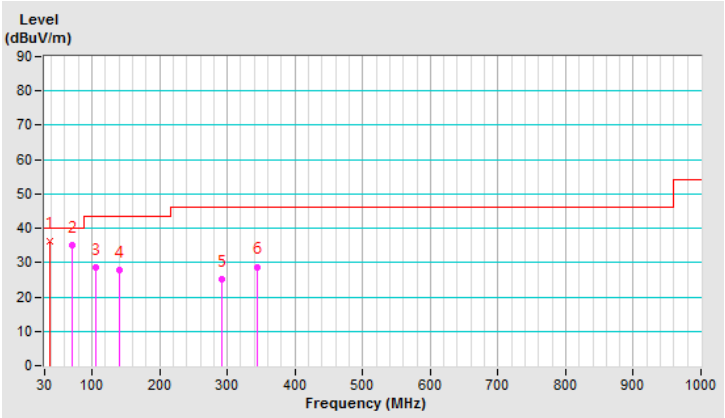


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.89	36.3 QP	40.0	-3.7	1.00 V	187	44.6	-8.3
2	70.59	35.2 QP	40.0	-4.8	1.00 V	64	45.5	-10.3
3	106.17	28.4 QP	43.5	-15.1	3.00 V	360	39.3	-10.9
4	139.85	27.7 QP	43.5	-15.8	1.00 V	140	35.3	-7.6
5	291.37	25.3 QP	46.0	-20.7	1.50 V	350	31.9	-6.6
6	343.43	28.8 QP	46.0	-17.2	1.50 V	126	34.0	-5.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.14 Test Results (Mode 8)

Above 1GHz Data:

802.11b

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

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	2388.75	62.9 PK	74.0	-11.1	2.31 H	29	65.3	-2.4
2	2388.75	52.7 AV	54.0	-1.3	2.31 H	29	55.1	-2.4
3	2390.00	62.8 PK	74.0	-11.2	2.31 H	29	65.2	-2.4
4	2390.00	52.1 AV	54.0	-1.9	2.31 H	29	54.5	-2.4
5	*2412.00	114.1 PK			2.31 H	29	116.5	-2.4
6	*2412.00	111.6 AV			2.31 H	29	114.0	-2.4
7	4824.00	52.4 PK	74.0	-21.6	1.50 H	6	50.2	2.2
8	4824.00	50.6 AV	54.0	-3.4	1.50 H	6	48.4	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2388.75	56.0 PK	74.0	-18.0	3.56 V	175	58.4	-2.4
2	2388.75	46.2 AV	54.0	-7.8	3.56 V	175	48.6	-2.4
3	2390.00	55.7 PK	74.0	-18.3	3.56 V	175	58.1	-2.4
4	2390.00	45.8 AV	54.0	-8.2	3.56 V	175	48.2	-2.4
5	*2412.00	109.5 PK			3.56 V	175	111.9	-2.4
6	*2412.00	106.5 AV			3.56 V	175	108.9	-2.4
7	4824.00	47.7 PK	74.0	-26.3	3.80 V	204	45.5	2.2
8	4824.00	44.8 AV	54.0	-9.2	3.80 V	204	42.6	2.2

REMARKS:

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

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

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	61.5 PK	74.0	-12.5	2.55 H	30	63.9	-2.4
2	2390.00	53.8 AV	54.0	-0.2	2.55 H	30	56.2	-2.4
3	*2437.00	115.1 PK			2.55 H	30	117.5	-2.4
4	*2437.00	112.7 AV			2.55 H	30	115.1	-2.4
5	2483.50	61.3 PK	74.0	-12.7	2.55 H	30	63.8	-2.5
6	2483.50	51.5 AV	54.0	-2.5	2.55 H	30	54.0	-2.5
7	4874.00	54.9 PK	74.0	-19.1	1.50 H	0	52.8	2.1
8	4874.00	53.2 AV	54.0	-0.8	1.50 H	0	51.1	2.1
9	7311.00	57.0 PK	74.0	-17.0	1.40 H	343	48.9	8.1
10	**7311.00**	**53.9 AV**	**54.0**	**-0.1**	**1.40 H**	**343**	**45.8**	**8.1**
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	3.60 V	352	59.6	-2.4
2	2390.00	47.3 AV	54.0	-6.7	3.60 V	352	49.7	-2.4
3	*2437.00	110.5 PK			3.60 V	352	112.9	-2.4
4	*2437.00	108.1 AV			3.60 V	352	110.5	-2.4
5	2483.50	55.8 PK	74.0	-18.2	3.60 V	352	58.3	-2.5
6	2483.50	45.5 AV	54.0	-8.5	3.60 V	352	48.0	-2.5
7	4874.00	49.2 PK	74.0	-24.8	3.85 V	209	47.1	2.1
8	4874.00	46.7 AV	54.0	-7.3	3.85 V	209	44.6	2.1
9	7311.00	52.1 PK	74.0	-21.9	1.50 V	355	44.0	8.1
10	7311.00	48.0 AV	54.0	-6.0	1.50 V	355	39.9	8.1

REMARKS:

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

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

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	113.4 PK			2.39 H	23	115.9	-2.5
2	*2462.00	111.2 AV			2.39 H	23	113.7	-2.5
3	2483.50	62.1 PK	74.0	-11.9	2.39 H	23	64.6	-2.5
4	2483.50	53.6 AV	54.0	-0.4	2.39 H	23	56.1	-2.5
5	4924.00	52.3 PK	74.0	-21.7	1.48 H	15	50.2	2.1
6	4924.00	50.8 AV	54.0	-3.2	1.48 H	15	48.7	2.1
7	7386.00	54.8 PK	74.0	-19.2	1.41 H	357	46.5	8.3
8	7386.00	51.6 AV	54.0	-2.4	1.41 H	357	43.3	8.3
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	109.2 PK			3.60 V	162	111.7	-2.5
2	*2462.00	106.1 AV			3.60 V	162	108.6	-2.5
3	2483.50	56.7 PK	74.0	-17.3	3.60 V	162	59.2	-2.5
4	2483.50	46.6 AV	54.0	-7.4	3.60 V	162	49.1	-2.5
5	4924.00	47.3 PK	74.0	-26.7	3.80 V	217	45.2	2.1
6	4924.00	44.7 AV	54.0	-9.3	3.80 V	217	42.6	2.1
7	7386.00	50.1 PK	74.0	-23.9	1.46 V	344	41.8	8.3
8	7386.00	45.9 AV	54.0	-8.1	1.46 V	344	37.6	8.3

REMARKS:

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

802.11g

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

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	73.5 PK	74.0	-0.5	2.37 H	31	75.9	-2.4
2	2390.00	49.8 AV	54.0	-4.2	2.37 H	31	52.2	-2.4
3	*2412.00	111.3 PK			2.37 H	31	113.7	-2.4
4	*2412.00	100.5 AV			2.37 H	31	102.9	-2.4
5	4824.00	45.6 PK	74.0	-28.4	1.58 H	10	43.4	2.2
6	4824.00	33.4 AV	54.0	-20.6	1.58 H	10	31.2	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.3 PK	74.0	-6.7	3.63 V	341	69.7	-2.4
2	2390.00	43.5 AV	54.0	-10.5	3.63 V	341	45.9	-2.4
3	*2412.00	106.6 PK			3.63 V	341	109.0	-2.4
4	*2412.00	95.5 AV			3.63 V	341	97.9	-2.4
5	4824.00	40.6 PK	74.0	-33.4	3.87 V	212	38.4	2.2
6	4824.00	28.7 AV	54.0	-25.3	3.87 V	212	26.5	2.2

REMARKS:

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

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

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	69.5 PK	74.0	-4.5	2.67 H	36	71.9	-2.4
2	2390.00	53.5 AV	54.0	-0.5	2.67 H	36	55.9	-2.4
3	*2437.00	114.8 PK			2.67 H	36	117.2	-2.4
4	*2437.00	104.4 AV			2.67 H	36	106.8	-2.4
5	2483.50	70.2 PK	74.0	-3.8	2.67 H	36	72.7	-2.5
6	2483.50	50.2 AV	54.0	-3.8	2.67 H	36	52.7	-2.5
7	4874.00	49.1 PK	74.0	-24.9	1.51 H	3	47.0	2.1
8	4874.00	36.4 AV	54.0	-17.6	1.51 H	3	34.3	2.1
9	7311.00	55.5 PK	74.0	-18.5	1.47 H	342	47.4	8.1
10	7311.00	42.5 AV	54.0	-11.5	1.47 H	342	34.4	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.0 PK	74.0	-10.0	3.60 V	350	66.4	-2.4
2	2390.00	47.6 AV	54.0	-6.4	3.60 V	350	50.0	-2.4
3	*2437.00	110.4 PK			3.60 V	350	112.8	-2.4
4	*2437.00	99.6 AV			3.60 V	350	102.0	-2.4
5	2483.50	66.1 PK	74.0	-7.9	3.60 V	350	68.6	-2.5
6	2483.50	47.8 AV	54.0	-6.2	3.60 V	350	50.3	-2.5
7	4874.00	40.3 PK	74.0	-33.7	3.82 V	216	38.2	2.1
8	4874.00	28.4 AV	54.0	-25.6	3.82 V	216	26.3	2.1
9	7311.00	50.0 PK	74.0	-24.0	1.50 V	353	41.9	8.1
10	7311.00	37.2 AV	54.0	-16.8	1.50 V	353	29.1	8.1

REMARKS:

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

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

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	110.9 PK			1.97 H	23	113.4	-2.5
2	*2462.00	100.2 AV			1.97 H	23	102.7	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**1.97 H**	**23**	**76.4**	**-2.5**
4	2483.50	48.9 AV	54.0	-5.1	1.97 H	23	51.4	-2.5
5	4924.00	45.6 PK	74.0	-28.4	1.52 H	14	43.5	2.1
6	4924.00	33.2 AV	54.0	-20.8	1.52 H	14	31.1	2.1
7	7386.00	51.9 PK	74.0	-22.1	1.44 H	336	43.6	8.3
8	7386.00	39.1 AV	54.0	-14.9	1.44 H	336	30.8	8.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.3 PK			3.62 V	352	108.8	-2.5
2	*2462.00	95.1 AV			3.62 V	352	97.6	-2.5
3	2483.50	67.0 PK	74.0	-7.0	3.62 V	352	69.5	-2.5
4	2483.50	43.5 AV	54.0	-10.5	3.62 V	352	46.0	-2.5
5	4924.00	40.4 PK	74.0	-33.6	3.81 V	224	38.3	2.1
6	4924.00	28.2 AV	54.0	-25.8	3.81 V	224	26.1	2.1
7	7386.00	47.8 PK	74.0	-26.2	1.44 V	348	39.5	8.3
8	7386.00	35.1 AV	54.0	-18.9	1.44 V	348	26.8	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.4 PK	74.0	-0.6	2.35 H	30	75.8	-2.4
2	2390.00	52.4 AV	54.0	-1.6	2.35 H	30	54.8	-2.4
3	*2412.00	113.0 PK			2.35 H	30	115.4	-2.4
4	*2412.00	100.8 AV			2.35 H	30	103.2	-2.4
5	4824.00	46.3 PK	74.0	-27.7	1.50 H	7	44.1	2.2
6	4824.00	33.6 AV	54.0	-20.4	1.50 H	7	31.4	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.1 PK	74.0	-3.9	3.56 V	343	72.5	-2.4
2	2390.00	46.5 AV	54.0	-7.5	3.56 V	343	48.9	-2.4
3	*2412.00	106.3 PK			3.56 V	343	108.7	-2.4
4	*2412.00	95.5 AV			3.56 V	343	97.9	-2.4
5	4824.00	39.9 PK	74.0	-34.1	3.85 V	220	37.7	2.2
6	4824.00	27.7 AV	54.0	-26.3	3.85 V	220	25.5	2.2

REMARKS:

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

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

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	70.3 PK	74.0	-3.7	2.66 H	34	72.7	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.66 H	34	56.0	-2.4
3	*2437.00	116.0 PK			2.66 H	34	118.4	-2.4
4	*2437.00	104.6 AV			2.66 H	34	107.0	-2.4
5	2483.50	68.5 PK	74.0	-5.5	2.66 H	34	71.0	-2.5
6	2483.50	50.9 AV	54.0	-3.1	2.66 H	34	53.4	-2.5
7	4874.00	48.5 PK	74.0	-25.5	1.53 H	4	46.4	2.1
8	4874.00	36.0 AV	54.0	-18.0	1.53 H	4	33.9	2.1
9	7311.00	55.3 PK	74.0	-18.7	1.52 H	346	47.2	8.1
10	7311.00	42.4 AV	54.0	-11.6	1.52 H	346	34.3	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.9 PK	74.0	-10.1	3.51 V	348	66.3	-2.4
2	2390.00	47.2 AV	54.0	-6.8	3.51 V	348	49.6	-2.4
3	*2437.00	110.7 PK			3.51 V	348	113.1	-2.4
4	*2437.00	99.7 AV			3.51 V	348	102.1	-2.4
5	2483.50	65.7 PK	74.0	-8.3	3.51 V	348	68.2	-2.5
6	2483.50	47.5 AV	54.0	-6.5	3.51 V	348	50.0	-2.5
7	4874.00	41.0 PK	74.0	-33.0	3.75 V	223	38.9	2.1
8	4874.00	28.6 AV	54.0	-25.4	3.75 V	223	26.5	2.1
9	7311.00	47.6 PK	74.0	-26.4	1.49 V	360	39.5	8.1
10	7311.00	34.7 AV	54.0	-19.3	1.49 V	360	26.6	8.1

REMARKS:

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

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

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	112.9 PK			2.40 H	36	115.4	-2.5
2	*2462.00	100.6 AV			2.40 H	36	103.1	-2.5
3	2483.50	73.5 PK	74.0	-0.5	2.40 H	36	76.0	-2.5
4	2483.50	51.9 AV	54.0	-2.1	2.40 H	36	54.4	-2.5
5	4924.00	45.9 PK	74.0	-28.1	1.56 H	8	43.8	2.1
6	4924.00	33.4 AV	54.0	-20.6	1.56 H	8	31.3	2.1
7	7386.00	51.8 PK	74.0	-22.2	1.45 H	340	43.5	8.3
8	7386.00	38.8 AV	54.0	-15.2	1.45 H	340	30.5	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			3.61 V	330	109.3	-2.5
2	*2462.00	95.5 AV			3.61 V	330	98.0	-2.5
3	2483.50	70.5 PK	74.0	-3.5	3.61 V	330	73.0	-2.5
4	2483.50	46.9 AV	54.0	-7.1	3.61 V	330	49.4	-2.5
5	4924.00	40.5 PK	74.0	-33.5	3.83 V	224	38.4	2.1
6	4924.00	28.1 AV	54.0	-25.9	3.83 V	224	26.0	2.1
7	7386.00	47.4 PK	74.0	-26.6	1.38 V	355	39.1	8.3
8	7386.00	34.8 AV	54.0	-19.2	1.38 V	355	26.5	8.3

REMARKS:

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

802.11ax (HE40)

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

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	73.6 PK	74.0	-0.4	2.63 H	32	76.0	-2.4
2	2390.00	53.6 AV	54.0	-0.4	2.63 H	32	56.0	-2.4
3	*2422.00	109.9 PK			2.63 H	32	112.3	-2.4
4	*2422.00	96.6 AV			2.63 H	32	99.0	-2.4
5	4844.00	46.9 PK	74.0	-27.1	1.50 H	4	44.7	2.2
6	4844.00	34.2 AV	54.0	-19.8	1.50 H	4	32.0	2.2
7	7266.00	52.2 PK	74.0	-21.8	1.38 H	357	44.2	8.0
8	7266.00	39.0 AV	54.0	-15.0	1.38 H	357	31.0	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.6 PK	74.0	-3.4	3.56 V	342	73.0	-2.4
2	2390.00	49.8 AV	54.0	-4.2	3.56 V	342	52.2	-2.4
3	*2422.00	105.9 PK			3.56 V	342	108.3	-2.4
4	*2422.00	92.4 AV			3.56 V	342	94.8	-2.4
5	4844.00	41.2 PK	74.0	-32.8	3.83 V	224	39.0	2.2
6	4844.00	28.6 AV	54.0	-25.4	3.83 V	224	26.4	2.2
7	7266.00	47.2 PK	74.0	-26.8	1.35 V	355	39.2	8.0
8	7266.00	34.9 AV	54.0	-19.1	1.35 V	355	26.9	8.0

REMARKS:

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

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

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	71.4 PK	74.0	-2.6	2.63 H	33	73.8	-2.4
2	**2390.00**	**53.9 AV**	**54.0**	**-0.1**	**2.63 H**	**33**	**56.3**	**-2.4**
3	*2437.00	111.3 PK			2.63 H	33	113.7	-2.4
4	*2437.00	98.0 AV			2.63 H	33	100.4	-2.4
5	2483.50	71.4 PK	74.0	-2.6	2.63 H	33	73.9	-2.5
6	2483.50	52.0 AV	54.0	-2.0	2.63 H	33	54.5	-2.5
7	4874.00	46.0 PK	74.0	-28.0	1.56 H	10	43.9	2.1
8	4874.00	33.3 AV	54.0	-20.7	1.56 H	10	31.2	2.1
9	7311.00	51.9 PK	74.0	-22.1	1.48 H	355	43.8	8.1
10	7311.00	38.9 AV	54.0	-15.1	1.48 H	355	30.8	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.2 PK	74.0	-9.8	3.64 V	333	66.6	-2.4
2	2390.00	47.3 AV	54.0	-6.7	3.64 V	333	49.7	-2.4
3	*2437.00	107.5 PK			3.64 V	333	109.9	-2.4
4	*2437.00	93.9 AV			3.64 V	333	96.3	-2.4
5	2483.50	65.6 PK	74.0	-8.4	3.64 V	333	68.1	-2.5
6	2483.50	47.5 AV	54.0	-6.5	3.64 V	333	50.0	-2.5
7	4874.00	41.1 PK	74.0	-32.9	3.77 V	231	39.0	2.1
8	4874.00	28.5 AV	54.0	-25.5	3.77 V	231	26.4	2.1
9	7311.00	47.6 PK	74.0	-26.4	1.42 V	345	39.5	8.1
10	7311.00	35.0 AV	54.0	-19.0	1.42 V	345	26.9	8.1

REMARKS:

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

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

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	110.1 PK			2.61 H	32	112.6	-2.5
2	*2452.00	97.0 AV			2.61 H	32	99.5	-2.5
3	2483.50	73.8 PK	74.0	-0.2	2.61 H	32	76.3	-2.5
4	2483.50	50.7 AV	54.0	-3.3	2.61 H	32	53.2	-2.5
5	4904.00	46.1 PK	74.0	-27.9	1.50 H	5	44.1	2.0
6	4904.00	33.7 AV	54.0	-20.3	1.50 H	5	31.7	2.0
7	7356.00	51.8 PK	74.0	-22.2	1.39 H	352	43.6	8.2
8	7356.00	38.7 AV	54.0	-15.3	1.39 H	352	30.5	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.2 PK			3.61 V	336	108.7	-2.5
2	*2452.00	93.1 AV			3.61 V	336	95.6	-2.5
3	2483.50	69.8 PK	74.0	-4.2	3.61 V	336	72.3	-2.5
4	2483.50	46.5 AV	54.0	-7.5	3.61 V	336	49.0	-2.5
5	4904.00	41.0 PK	74.0	-33.0	3.79 V	226	39.0	2.0
6	4904.00	28.5 AV	54.0	-25.5	3.79 V	226	26.5	2.0
7	7356.00	47.3 PK	74.0	-26.7	1.40 V	348	39.1	8.2
8	7356.00	34.8 AV	54.0	-19.2	1.40 V	348	26.6	8.2

REMARKS:

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

4.1.15 Test Results (Mode 9)

Above 1GHz Data:

802.11b

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

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	59.2 PK	74.0	-14.8	1.08 H	34	61.6	-2.4
2	2390.00	51.5 AV	54.0	-2.5	1.08 H	34	53.9	-2.4
3	*2412.00	112.1 PK			1.08 H	34	114.5	-2.4
4	*2412.00	109.6 AV			1.08 H	34	112.0	-2.4
5	4824.00	50.2 PK	74.0	-23.8	1.09 H	80	48.0	2.2
6	4824.00	48.2 AV	54.0	-5.8	1.09 H	80	46.0	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2390.00	56.8 PK	74.0	-17.2	1.64 V	33	59.2	-2.4
2	2390.00	47.1 AV	54.0	-6.9	1.64 V	33	49.5	-2.4
3	*2412.00	109.8 PK			1.64 V	33	112.2	-2.4
4	*2412.00	107.1 AV			1.64 V	33	109.5	-2.4
5	4824.00	49.0 PK	74.0	-25.0	3.94 V	339	46.8	2.2
6	4824.00	46.9 AV	54.0	-7.1	3.94 V	339	44.7	2.2

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.0 PK	74.0	-18.0	1.38 H	28	58.4	-2.4
2	2390.00	43.4 AV	54.0	-10.6	1.38 H	28	45.8	-2.4
3	*2437.00	112.0 PK			1.38 H	28	114.4	-2.4
4	*2437.00	109.4 AV			1.38 H	28	111.8	-2.4
5	2483.50	58.3 PK	74.0	-15.7	1.38 H	28	60.8	-2.5
6	2483.50	44.4 AV	54.0	-9.6	1.38 H	28	46.9	-2.5
7	4874.00	51.5 PK	74.0	-22.5	1.04 H	64	49.4	2.1
8	4874.00	50.1 AV	54.0	-3.9	1.04 H	64	48.0	2.1
9	7311.00	44.2 PK	74.0	-29.8	1.96 H	57	36.1	8.1
10	7311.00	36.2 AV	54.0	-17.8	1.96 H	57	28.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.58 V	20	59.7	-2.4
2	2390.00	47.4 AV	54.0	-6.6	1.58 V	20	49.8	-2.4
3	*2437.00	109.7 PK			1.58 V	20	112.1	-2.4
4	*2437.00	106.9 AV			1.58 V	20	109.3	-2.4
5	2483.50	58.0 PK	74.0	-16.0	1.58 V	20	60.5	-2.5
6	2483.50	48.4 AV	54.0	-5.6	1.58 V	20	50.9	-2.5
7	4874.00	51.1 PK	74.0	-22.9	3.88 V	355	49.0	2.1
8	4874.00	49.2 AV	54.0	-4.8	3.88 V	355	47.1	2.1
9	7311.00	45.8 PK	74.0	-28.2	1.50 V	0	37.7	8.1
10	7311.00	36.1 AV	54.0	-17.9	1.50 V	0	28.0	8.1

REMARKS:

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

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

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	112.0 PK			1.28 H	29	114.5	-2.5
2	*2462.00	109.5 AV			1.28 H	29	112.0	-2.5
3	2483.50	59.2 PK	74.0	-14.8	1.28 H	29	61.7	-2.5
4	2483.50	51.9 AV	54.0	-2.1	1.28 H	29	54.4	-2.5
5	4924.00	50.6 PK	74.0	-23.4	1.00 H	66	48.5	2.1
6	4924.00	48.7 AV	54.0	-5.3	1.00 H	66	46.6	2.1
7	7386.00	44.0 PK	74.0	-30.0	1.88 H	26	35.7	8.3
8	7386.00	33.8 AV	54.0	-20.2	1.88 H	26	25.5	8.3
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	110.1 PK			1.62 V	25	112.6	-2.5
2	*2462.00	107.2 AV			1.62 V	25	109.7	-2.5
3	2483.50	56.2 PK	74.0	-17.8	1.62 V	25	58.7	-2.5
4	2483.50	46.8 AV	54.0	-7.2	1.62 V	25	49.3	-2.5
5	4924.00	49.4 PK	74.0	-24.6	3.86 V	345	47.3	2.1
6	4924.00	47.8 AV	54.0	-6.2	3.86 V	345	45.7	2.1
7	7386.00	44.4 PK	74.0	-29.6	1.54 V	15	36.1	8.3
8	7386.00	34.2 AV	54.0	-19.8	1.54 V	15	25.9	8.3

REMARKS:

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

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

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	73.5 PK	74.0	-0.5	1.12 H	33	75.9	-2.4
2	2390.00	51.5 AV	54.0	-2.5	1.12 H	33	53.9	-2.4
3	*2412.00	108.9 PK			1.12 H	33	111.3	-2.4
4	*2412.00	98.1 AV			1.12 H	33	100.5	-2.4
5	4824.00	45.7 PK	74.0	-28.3	1.00 H	69	43.5	2.2
6	4824.00	33.9 AV	54.0	-20.1	1.00 H	69	31.7	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.3 PK	74.0	-6.7	1.70 V	33	69.7	-2.4
2	2390.00	43.4 AV	54.0	-10.6	1.70 V	33	45.8	-2.4
3	*2412.00	105.0 PK			1.70 V	33	107.4	-2.4
4	*2412.00	94.1 AV			1.70 V	33	96.5	-2.4
5	4824.00	48.4 PK	74.0	-25.6	3.90 V	344	46.2	2.2
6	4824.00	35.4 AV	54.0	-18.6	3.90 V	344	33.2	2.2

REMARKS:

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

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

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	65.9 PK	74.0	-8.1	1.14 H	29	68.3	-2.4
2	2390.00	51.3 AV	54.0	-2.7	1.14 H	29	53.7	-2.4
3	*2437.00	113.3 PK			1.14 H	29	115.7	-2.4
4	*2437.00	102.7 AV			1.14 H	29	105.1	-2.4
5	2483.50	68.5 PK	74.0	-5.5	1.14 H	29	71.0	-2.5
6	2483.50	52.7 AV	54.0	-1.3	1.14 H	29	55.2	-2.5
7	4874.00	47.1 PK	74.0	-26.9	1.02 H	76	45.0	2.1
8	4874.00	35.0 AV	54.0	-19.0	1.02 H	76	32.9	2.1
9	7311.00	42.8 PK	74.0	-31.2	1.57 H	23	34.7	8.1
10	7311.00	31.2 AV	54.0	-22.8	1.57 H	23	23.1	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.3 PK	74.0	-10.7	1.61 V	31	65.7	-2.4
2	2390.00	46.8 AV	54.0	-7.2	1.61 V	31	49.2	-2.4
3	*2437.00	109.3 PK			1.61 V	31	111.7	-2.4
4	*2437.00	98.4 AV			1.61 V	31	100.8	-2.4
5	2483.50	64.9 PK	74.0	-9.1	1.61 V	31	67.4	-2.5
6	2483.50	46.8 AV	54.0	-7.2	1.61 V	31	49.3	-2.5
7	4874.00	49.8 PK	74.0	-24.2	3.85 V	357	47.7	2.1
8	4874.00	37.1 AV	54.0	-16.9	3.85 V	357	35.0	2.1
9	7311.00	44.4 PK	74.0	-29.6	1.50 V	0	36.3	8.1
10	7311.00	32.0 AV	54.0	-22.0	1.50 V	0	23.9	8.1

REMARKS:

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

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

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	109.2 PK			1.32 H	27	111.7	-2.5
2	*2462.00	98.4 AV			1.32 H	27	100.9	-2.5
3	**2483.50**	**73.9 PK**	**74.0**	**-0.1**	**1.32 H**	**27**	**76.4**	**-2.5**
4	2483.50	49.4 AV	54.0	-4.6	1.32 H	27	51.9	-2.5
5	4924.00	45.3 PK	74.0	-28.7	1.00 H	69	43.2	2.1
6	4924.00	33.5 AV	54.0	-20.5	1.00 H	69	31.4	2.1
7	7386.00	42.7 PK	74.0	-31.3	1.55 H	25	34.4	8.3
8	7386.00	31.1 AV	54.0	-22.9	1.55 H	25	22.8	8.3

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	105.4 PK			1.58 V	31	107.9	-2.5
2	*2462.00	94.5 AV			1.58 V	31	97.0	-2.5
3	2483.50	67.5 PK	74.0	-6.5	1.58 V	31	70.0	-2.5
4	2483.50	43.8 AV	54.0	-10.2	1.58 V	31	46.3	-2.5
5	4924.00	48.0 PK	74.0	-26.0	3.88 V	343	45.9	2.1
6	4924.00	34.9 AV	54.0	-19.1	3.88 V	343	32.8	2.1
7	7386.00	44.5 PK	74.0	-29.5	1.46 V	16	36.2	8.3
8	7386.00	32.0 AV	54.0	-22.0	1.46 V	16	23.7	8.3

REMARKS:

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

802.11ax (HE20)

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

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	73.6 PK	74.0	-0.4	1.10 H	28	76.0	-2.4
2	2390.00	53.2 AV	54.0	-0.8	1.10 H	28	55.6	-2.4
3	*2412.00	110.9 PK			1.10 H	28	113.3	-2.4
4	*2412.00	97.7 AV			1.10 H	28	100.1	-2.4
5	4824.00	46.7 PK	74.0	-27.3	1.49 H	5	44.5	2.2
6	4824.00	32.8 AV	54.0	-21.2	1.49 H	5	30.6	2.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	1.62 V	42	70.7	-2.4
2	2390.00	45.0 AV	54.0	-9.0	1.62 V	42	47.4	-2.4
3	*2412.00	106.7 PK			1.62 V	42	109.1	-2.4
4	*2412.00	95.8 AV			1.62 V	42	98.2	-2.4
5	4824.00	40.9 PK	74.0	-33.1	1.45 V	198	38.7	2.2
6	4824.00	29.5 AV	54.0	-24.5	1.45 V	198	27.3	2.2

REMARKS:

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

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

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	66.8 PK	74.0	-7.2	1.42 H	28	69.2	-2.4
2	2390.00	51.5 AV	54.0	-2.5	1.42 H	28	53.9	-2.4
3	*2437.00	114.9 PK			1.42 H	28	117.3	-2.4
4	*2437.00	101.8 AV			1.42 H	28	104.2	-2.4
5	2483.50	68.5 PK	74.0	-5.5	1.42 H	28	71.0	-2.5
6	2483.50	52.3 AV	54.0	-1.7	1.42 H	28	54.8	-2.5
7	4874.00	48.6 PK	74.0	-25.4	1.48 H	4	46.5	2.1
8	4874.00	35.2 AV	54.0	-18.8	1.48 H	4	33.1	2.1
9	7311.00	55.2 PK	74.0	-18.8	1.23 H	360	47.1	8.1
10	7311.00	40.8 AV	54.0	-13.2	1.23 H	360	32.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	1.68 V	25	61.9	-2.4
2	2390.00	45.2 AV	54.0	-8.8	1.68 V	25	47.6	-2.4
3	*2437.00	108.6 PK			1.68 V	25	111.0	-2.4
4	*2437.00	98.8 AV			1.68 V	25	101.2	-2.4
5	2483.50	61.0 PK	74.0	-13.0	1.68 V	25	63.5	-2.5
6	2483.50	45.1 AV	54.0	-8.9	1.68 V	25	47.6	-2.5
7	4874.00	41.4 PK	74.0	-32.6	1.52 V	193	39.3	2.1
8	4874.00	29.0 AV	54.0	-25.0	1.52 V	193	26.9	2.1
9	7311.00	49.3 PK	74.0	-24.7	1.25 V	356	41.2	8.1
10	7311.00	37.4 AV	54.0	-16.6	1.25 V	356	29.3	8.1

REMARKS:

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

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

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	111.3 PK			1.00 H	32	113.8	-2.5
2	*2462.00	97.5 AV			1.00 H	32	100.0	-2.5
3	2483.50	73.6 PK	74.0	-0.4	1.00 H	32	76.1	-2.5
4	2483.50	50.3 AV	54.0	-3.7	1.00 H	32	52.8	-2.5
5	4924.00	46.5 PK	74.0	-27.5	1.45 H	2	44.4	2.1
6	4924.00	32.5 AV	54.0	-21.5	1.45 H	2	30.4	2.1
7	7386.00	51.7 PK	74.0	-22.3	1.36 H	328	43.4	8.3
8	7386.00	39.4 AV	54.0	-14.6	1.36 H	328	31.1	8.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.2 PK			1.64 V	25	108.7	-2.5
2	*2462.00	95.6 AV			1.64 V	25	98.1	-2.5
3	2483.50	69.0 PK	74.0	-5.0	1.64 V	25	71.5	-2.5
4	2483.50	45.4 AV	54.0	-8.6	1.64 V	25	47.9	-2.5
5	4924.00	40.7 PK	74.0	-33.3	1.43 V	199	38.6	2.1
6	4924.00	29.6 AV	54.0	-24.4	1.43 V	199	27.5	2.1
7	7386.00	49.6 PK	74.0	-24.4	1.21 V	356	41.3	8.3
8	7386.00	37.8 AV	54.0	-16.2	1.21 V	356	29.5	8.3

REMARKS:

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

802.11ax (HE40)

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

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	73.2 PK	74.0	-0.8	1.51 H	31	75.6	-2.4
2	2390.00	53.6 AV	54.0	-0.4	1.51 H	31	56.0	-2.4
3	*2422.00	107.0 PK			1.51 H	31	109.4	-2.4
4	*2422.00	94.1 AV			1.51 H	31	96.5	-2.4
5	4844.00	45.0 PK	74.0	-29.0	1.49 H	20	42.8	2.2
6	4844.00	31.5 AV	54.0	-22.5	1.49 H	20	29.3	2.2
7	7266.00	50.7 PK	74.0	-23.3	1.27 H	360	42.7	8.0
8	7266.00	37.9 AV	54.0	-16.1	1.27 H	360	29.9	8.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.0 PK	74.0	-6.0	1.70 V	35	70.4	-2.4
2	2390.00	48.4 AV	54.0	-5.6	1.70 V	35	50.8	-2.4
3	*2422.00	105.5 PK			1.70 V	35	107.9	-2.4
4	*2422.00	91.7 AV			1.70 V	35	94.1	-2.4
5	4844.00	41.2 PK	74.0	-32.8	1.53 V	184	39.0	2.2
6	4844.00	29.4 AV	54.0	-24.6	1.53 V	184	27.2	2.2
7	7266.00	50.1 PK	74.0	-23.9	1.45 V	350	42.1	8.0
8	7266.00	38.5 AV	54.0	-15.5	1.45 V	350	30.5	8.0

REMARKS:

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

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

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	68.8 PK	74.0	-5.2	1.31 H	18	71.2	-2.4
2	2390.00	51.0 AV	54.0	-3.0	1.31 H	18	53.4	-2.4
3	*2437.00	109.2 PK			1.31 H	18	111.6	-2.4
4	*2437.00	95.4 AV			1.31 H	18	97.8	-2.4
5	2483.50	73.2 PK	74.0	-0.8	1.31 H	18	75.7	-2.5
6	2483.50	53.6 AV	54.0	-0.4	1.31 H	18	56.1	-2.5
7	4874.00	45.3 PK	74.0	-28.7	1.47 H	20	43.2	2.1
8	4874.00	32.0 AV	54.0	-22.0	1.47 H	20	29.9	2.1
9	7311.00	51.5 PK	74.0	-22.5	1.25 H	351	43.4	8.1
10	7311.00	38.8 AV	54.0	-15.2	1.25 H	351	30.7	8.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.61 V	43	70.1	-2.4
2	2390.00	48.3 AV	54.0	-5.7	1.61 V	43	50.7	-2.4
3	*2437.00	107.4 PK			1.61 V	43	109.8	-2.4
4	*2437.00	94.0 AV			1.61 V	43	96.4	-2.4
5	2483.50	69.5 PK	74.0	-4.5	1.61 V	43	72.0	-2.5
6	2483.50	49.4 AV	54.0	-4.6	1.61 V	43	51.9	-2.5
7	4874.00	41.1 PK	74.0	-32.9	1.57 V	199	39.0	2.1
8	4874.00	29.5 AV	54.0	-24.5	1.57 V	199	27.4	2.1
9	7311.00	50.3 PK	74.0	-23.7	1.45 V	360	42.2	8.1
10	7311.00	38.4 AV	54.0	-15.6	1.45 V	360	30.3	8.1

REMARKS:

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

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

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	107.7 PK			1.30 H	30	110.2	-2.5
2	*2452.00	94.9 AV			1.30 H	30	97.4	-2.5
3	2483.50	73.7 PK	74.0	-0.3	1.30 H	30	76.2	-2.5
4	2483.50	52.3 AV	54.0	-1.7	1.30 H	30	54.8	-2.5
5	4904.00	45.4 PK	74.0	-28.6	1.47 H	5	43.4	2.0
6	4904.00	31.9 AV	54.0	-22.1	1.47 H	5	29.9	2.0
7	7356.00	51.3 PK	74.0	-22.7	1.28 H	359	43.1	8.2
8	7356.00	38.4 AV	54.0	-15.6	1.28 H	359	30.2	8.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.9 PK			1.62 V	22	108.4	-2.5
2	*2452.00	92.0 AV			1.62 V	22	94.5	-2.5
3	2483.50	67.8 PK	74.0	-6.2	1.62 V	22	70.3	-2.5
4	2483.50	48.1 AV	54.0	-5.9	1.62 V	22	50.6	-2.5
5	4904.00	41.3 PK	74.0	-32.7	1.50 V	187	39.3	2.0
6	4904.00	29.5 AV	54.0	-24.5	1.50 V	187	27.5	2.0
7	7356.00	50.6 PK	74.0	-23.4	1.40 V	346	42.4	8.2
8	7356.00	38.8 AV	54.0	-15.2	1.40 V	346	30.6	8.2

REMARKS:

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

Below 1GHz Data:

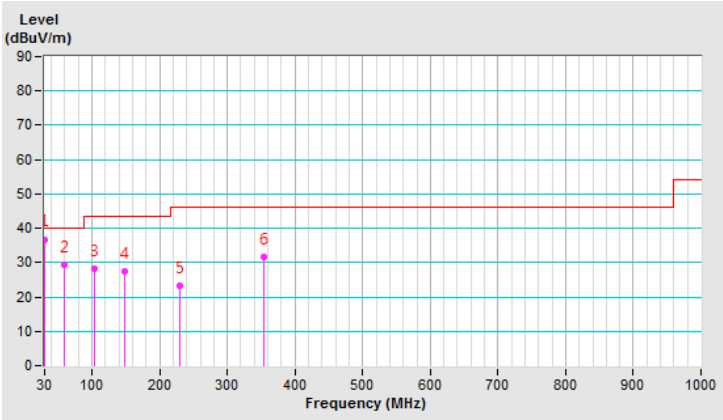
802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	30.43	36.8 QP	40.0	-3.2	1.00 H	103	45.6	-8.8
2	59.05	29.2 QP	40.0	-10.8	1.50 H	77	37.4	-8.2
3	104.53	28.3 QP	43.5	-15.2	1.50 H	195	39.3	-11.0
4	148.32	27.6 QP	43.5	-15.9	1.50 H	12	34.7	-7.1
5	230.33	23.2 QP	46.0	-22.8	4.00 H	264	32.5	-9.3
6	353.54	31.6 QP	46.0	-14.4	1.00 H	49	36.5	-4.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

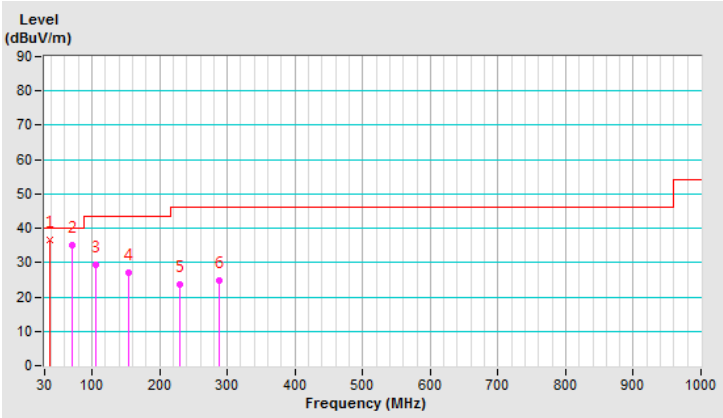


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.51	36.5 QP	40.0	-3.5	1.50 V	165	44.8	-8.3
2	70.59	35.2 QP	40.0	-4.8	1.00 V	64	45.5	-10.3
3	105.99	29.2 QP	43.5	-14.3	2.00 V	2	40.1	-10.9
4	153.31	26.9 QP	43.5	-16.6	1.00 V	0	34.0	-7.1
5	229.09	23.7 QP	46.0	-22.3	3.00 V	360	33.2	-9.5
6	287.83	24.9 QP	46.0	-21.1	1.00 V	23	31.6	-6.7

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3 Tested Date: Jan. 17, 2020

4.2.3 Test Procedures

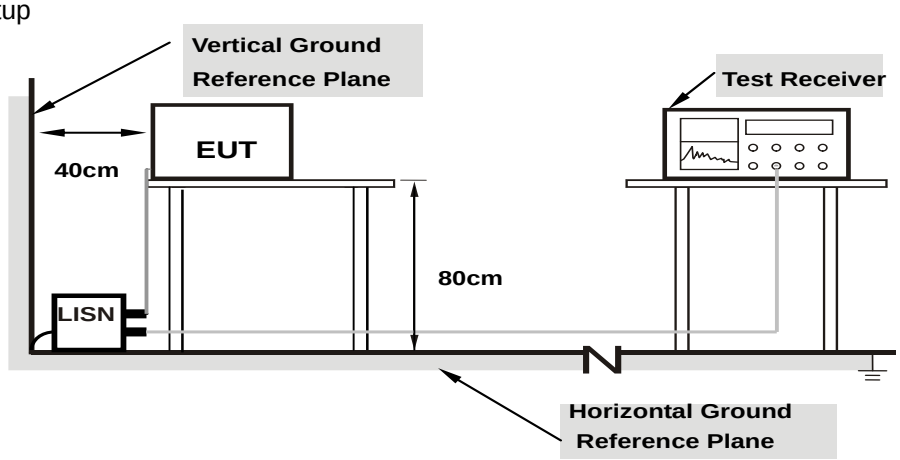
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 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.

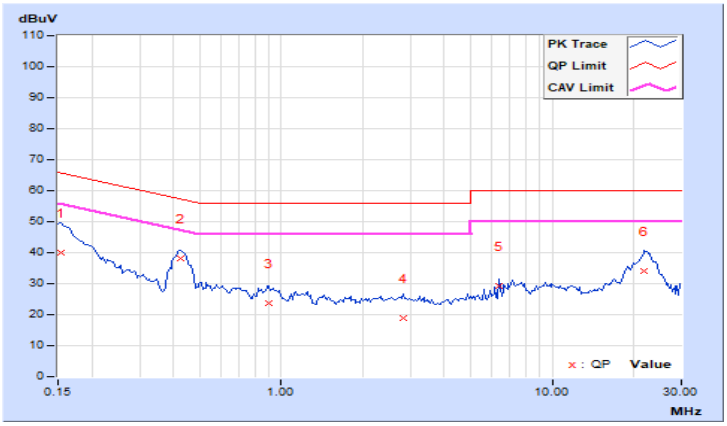
4.2.7 Test Results (Mode 1)

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

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.97	30.09	7.38	40.06	17.35	65.79	55.79	-25.73	-38.44
2	0.42344	9.98	28.09	17.42	38.07	27.40	57.38	47.38	-19.31	-19.98
3	0.90000	10.01	13.82	4.89	23.83	14.90	56.00	46.00	-32.17	-31.10
4	2.81641	10.11	8.85	1.55	18.96	11.66	56.00	46.00	-37.04	-34.34
5	6.39453	10.29	19.02	18.51	29.31	28.80	60.00	50.00	-30.69	-21.20
6	21.96875	11.11	23.09	17.08	34.20	28.19	60.00	50.00	-25.80	-21.81

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

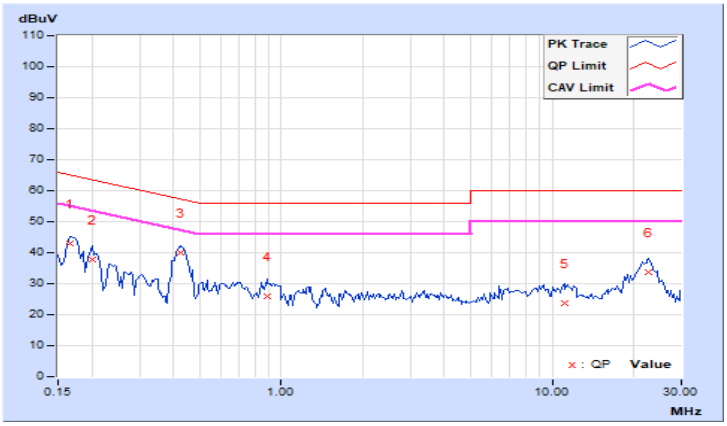


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.97	32.83	21.66	42.80	31.63	65.18	55.18	-22.38	-23.55
2	0.20078	9.97	27.83	17.19	37.80	27.16	63.58	53.58	-25.78	-26.42
3	**0.42734**	**9.98**	**29.98**	**20.49**	**39.96**	**30.47**	**57.30**	**47.30**	**-17.34**	**-16.83**
4	0.88438	10.01	16.10	6.49	26.11	16.50	56.00	46.00	-29.89	-29.50
5	11.07031	10.43	13.39	7.22	23.82	17.65	60.00	50.00	-36.18	-32.35
6	22.82422	10.85	22.89	16.99	33.74	27.84	60.00	50.00	-26.26	-22.16

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

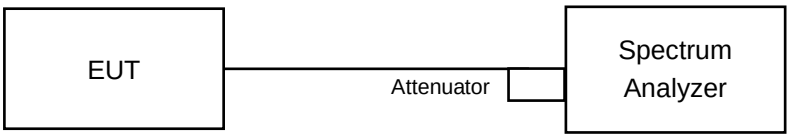


4.3 6dB Bandwidth Measurement

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

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result (Mode 1)

Non-Beamforming Mode:

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	7.11	7.11	0.5	Pass
6	2437	7.10	7.10	0.5	Pass
11	2462	7.09	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.43	16.42	0.5	Pass
6	2437	16.44	16.43	0.5	Pass
11	2462	16.43	16.45	0.5	Pass

802.11ax (HE20)

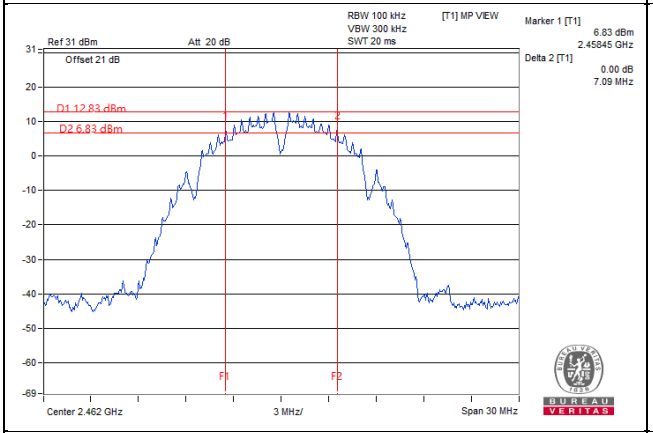
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	19.07	19.04	0.5	Pass
6	2437	19.05	19.08	0.5	Pass
11	2462	19.08	19.07	0.5	Pass

802.11ax (HE40)

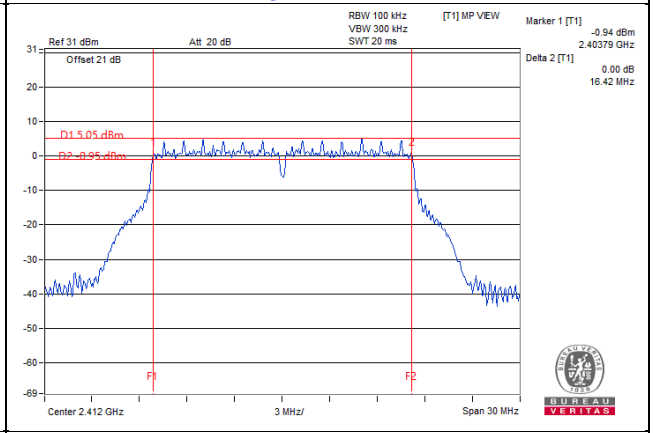
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	37.49	37.51	0.5	Pass
6	2437	36.82	37.17	0.5	Pass
9	2452	37.52	37.47	0.5	Pass

Spectrum Plot of Worst Value

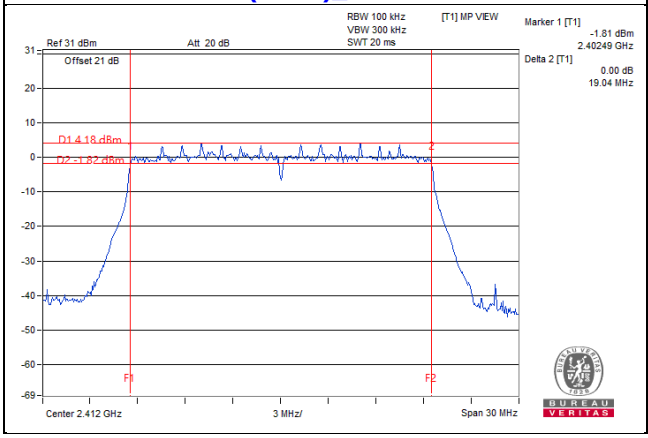
802.11b_Chain 0 / CH11



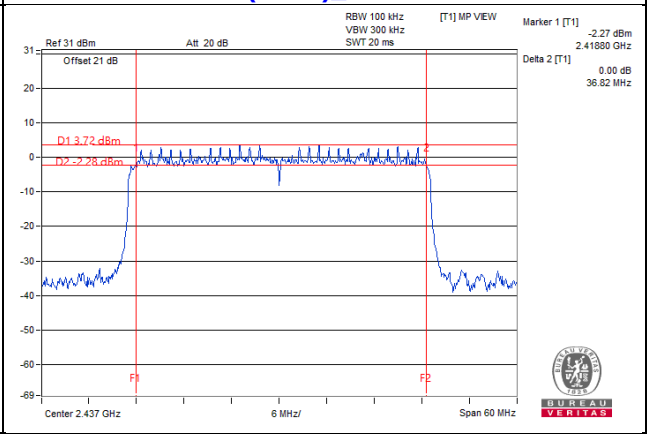
802.11g_Chain 1 / CH1



802.11ax (HE20)_Chain 1 / CH1



802.11ax (HE40)_Chain 0 / CH6



4.3.8 Test Result (Mode 2)

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.09	0.5	Pass
6	2437	7.08	0.5	Pass
11	2462	7.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.43	0.5	Pass
6	2437	16.40	0.5	Pass
11	2462	16.43	0.5	Pass

802.11ax (HE20)

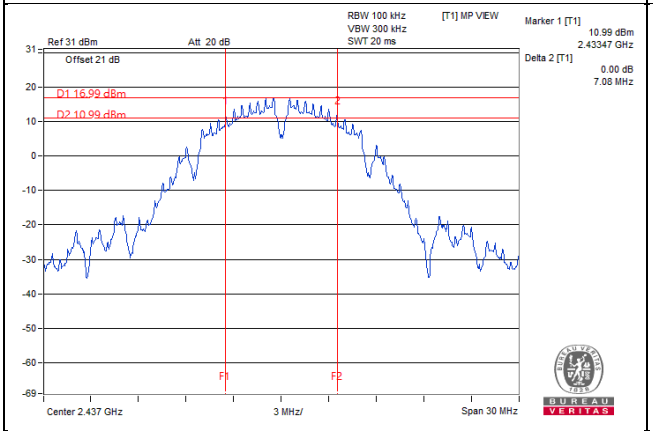
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	19.15	0.5	Pass
6	2437	19.04	0.5	Pass
11	2462	19.07	0.5	Pass

802.11ax (HE40)

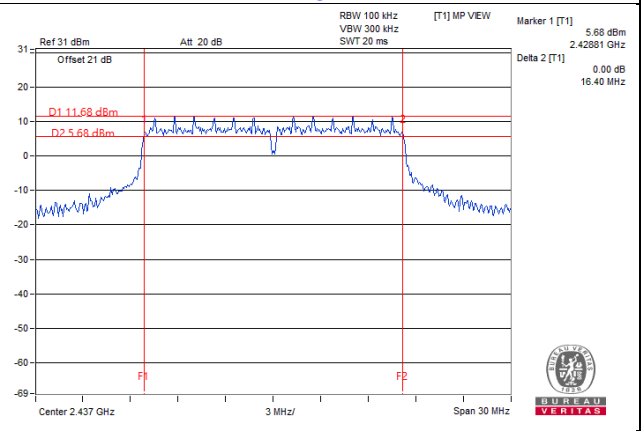
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	37.92	0.5	Pass
6	2437	37.89	0.5	Pass
9	2452	37.75	0.5	Pass

Spectrum Plot of Worst Value

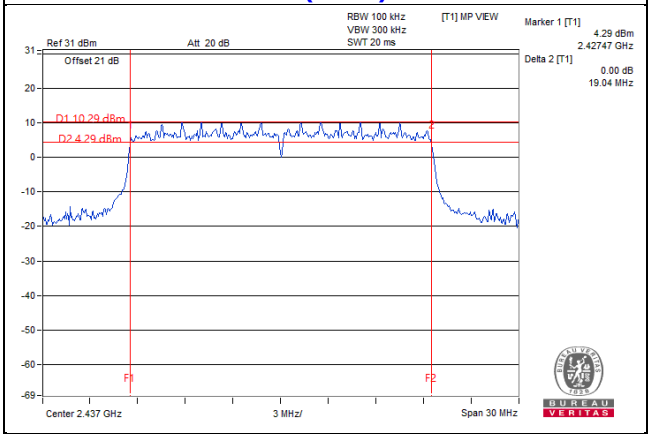
802.11b / CH6



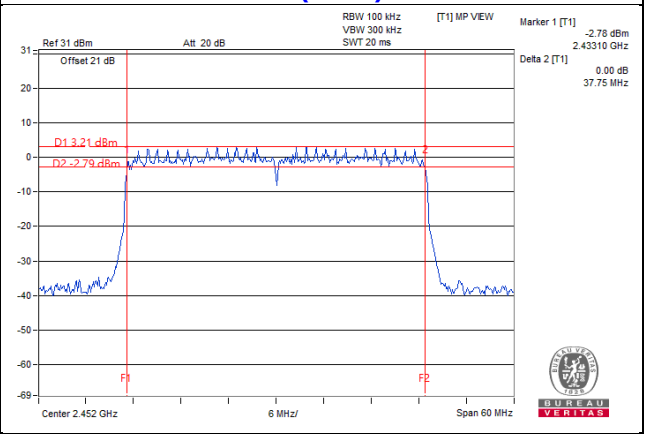
802.11g / CH6



802.11ax (HE20) / CH6



802.11ax (HE40) / CH9



4.3.9 Test Result (Mode 3)

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.08	0.5	Pass
6	2437	7.10	0.5	Pass
11	2462	7.06	0.5	Pass

802.11g

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

802.11ax (HE20)

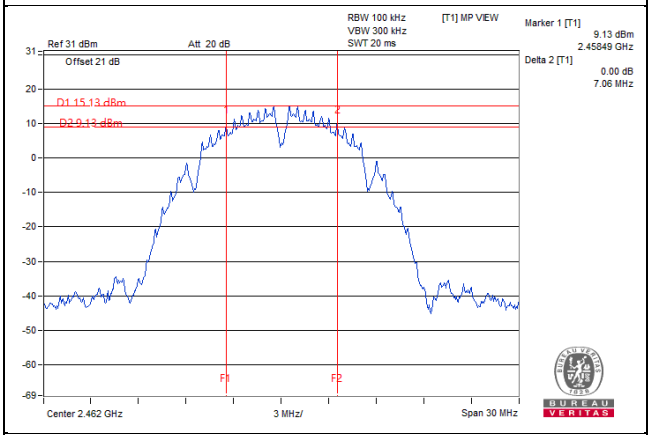
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	19.02	0.5	Pass
6	2437	19.02	0.5	Pass
11	2462	19.08	0.5	Pass

802.11ax (HE40)

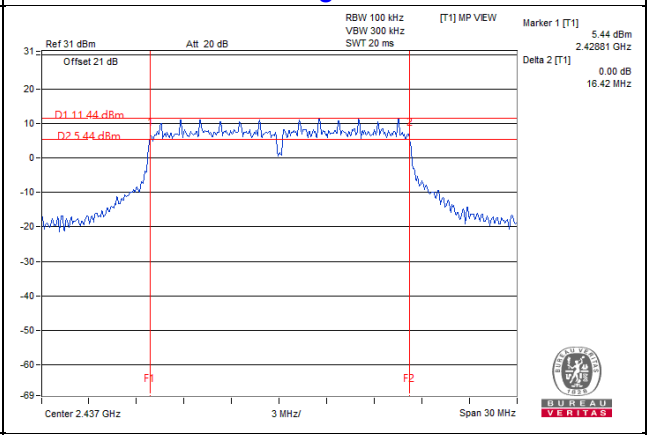
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	37.74	0.5	Pass
6	2437	37.92	0.5	Pass
9	2452	37.70	0.5	Pass

Spectrum Plot of Worst Value

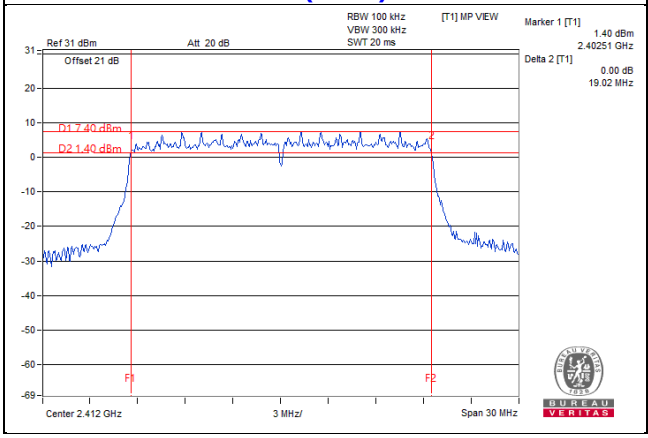
802.11b / CH11



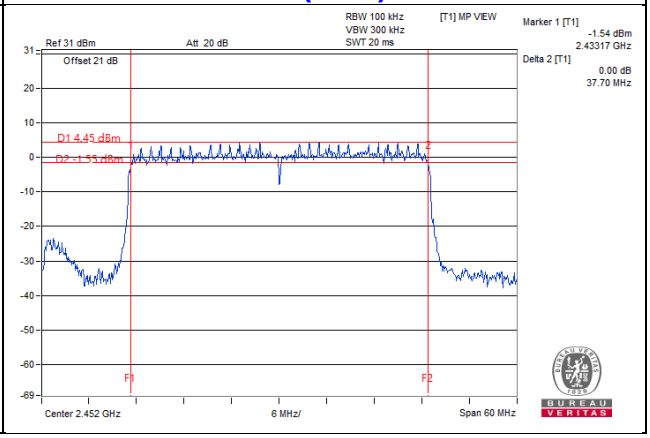
802.11g / CH6



802.11ax (HE20) / CH1



802.11ax (HE40) / CH9



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

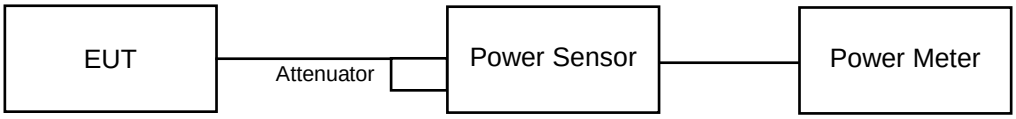
For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

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 (Mode 1)

Non-Beamforming Mode:

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.02	19.97	199.774	23.01	30	Pass
6	2437	22.77	22.85	381.986	25.82	30	Pass
11	2462	20.06	20.11	203.956	23.10	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.82	16.63	94.11	19.74	30	Pass
6	2437	20.48	20.53	224.666	23.52	30	Pass
11	2462	17.02	16.85	98.767	19.95	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.95	15.81	77.462	18.89	30	Pass
6	2437	20.34	20.16	211.896	23.26	30	Pass
11	2462	16.66	16.52	91.22	19.60	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.28	14.88	64.49	18.09	30	Pass
6	2437	17.85	17.83	121.628	20.85	30	Pass
9	2452	16.01	15.66	76.715	18.85	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.07	15.92	79.542	19.01	30	Pass
6	2437	20.45	20.31	218.316	23.39	30	Pass
11	2462	16.78	16.65	93.881	19.73	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.27	14.98	65.128	18.14	30	Pass
6	2437	17.98	17.95	125.179	20.98	30	Pass
9	2452	16.11	15.77	78.589	18.95	30	Pass

Beamforming Mode:

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.95	15.81	77.462	18.89	28.39	Pass
6	2437	20.34	20.16	211.896	23.26	28.39	Pass
11	2462	16.66	16.52	91.22	19.60	28.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.28	14.88	64.49	18.09	28.39	Pass
6	2437	17.85	17.83	121.628	20.85	28.39	Pass
9	2452	16.01	15.66	76.715	18.85	28.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.07	15.92	79.542	19.01	28.39	Pass
6	2437	20.45	20.31	218.316	23.39	28.39	Pass
11	2462	16.78	16.65	93.881	19.73	28.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.27	14.98	65.128	18.14	28.39	Pass
6	2437	17.98	17.95	125.179	20.98	28.39	Pass
9	2452	16.11	15.77	78.589	18.95	28.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.

4.4.8 Test Results (Mode 2)

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	104.954	20.21	30	Pass
6	2437	253.513	24.04	30	Pass
11	2462	149.968	21.76	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	62.087	17.93	30	Pass
6	2437	183.654	22.64	30	Pass
11	2462	57.81	17.62	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	63.68	18.04	30	Pass
6	2437	144.544	21.60	30	Pass
11	2462	59.02	17.71	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	42.073	16.24	30	Pass
6	2437	82.794	19.18	30	Pass
9	2452	59.429	17.74	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	66.222	18.21	30	Pass
6	2437	148.594	21.72	30	Pass
11	2462	60.674	17.83	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	43.251	16.36	30	Pass
6	2437	85.507	19.32	30	Pass
9	2452	61.094	17.86	30	Pass

4.4.9 Test Results (Mode 3)

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	183.654	22.64	30	Pass
6	2437	190.985	22.81	30	Pass
11	2462	193.642	22.87	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	81.658	19.12	30	Pass
6	2437	180.717	22.57	30	Pass
11	2462	82.414	19.16	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	86.696	19.38	30	Pass
6	2437	180.302	22.56	30	Pass
11	2462	79.25	18.99	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	69.663	18.43	30	Pass
6	2437	96.828	19.86	30	Pass
9	2452	74.817	18.74	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	87.7	19.43	30	Pass
6	2437	185.353	22.68	30	Pass
11	2462	81.47	19.11	30	Pass

802.11ax (HE40)

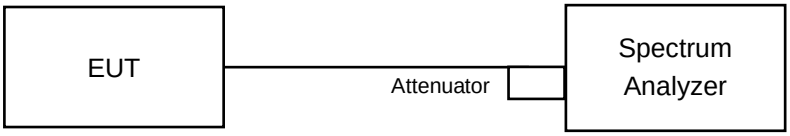
Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	71.945	18.57	30	Pass
6	2437	99.541	19.98	30	Pass
9	2452	76.913	18.86	30	Pass

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

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

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 802.11b, 802.11g

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

For 802.11ax (HE20), 802.11ax (HE40)

a. Measure the duty cycle (x).
b. Set instrument center frequency to DTS channel center frequency.
c. Set span to at least 1.5 times the OBW.
d. Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz..
e. Set VBW ≥3 x RBW.
f. Detector = power averaging (RMS) or sample detector (when RMS not available).
g. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
h. Sweep time = auto couple.
i. Do not use sweep triggering. Allow sweep to “free run”.
j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
k. Use the peak marker function to determine the maximum amplitude level.
l. Add 10 log (1/x), where x is the duty cycle measured in step (a, to the measured PSD to compute the average PSD during the actual transmission time.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6

4.5.7 Test Results (Mode 1)

Non-Beamforming Mode:

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-11.12	3.01	-8.11	6.39	Pass
	6	2437	-9.03	3.01	-6.02	6.39	Pass
	11	2462	-10.99	3.01	-7.98	6.39	Pass
1	1	2412	-11.51	3.01	-8.50	6.39	Pass
	6	2437	-8.10	3.01	-5.09	6.39	Pass
	11	2462	-11.05	3.01	-8.04	6.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power density limit shall be reduced to 8-(7.61-6) = 6.39 dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-16.33	3.01	-13.32	6.39	Pass
	6	2437	-12.10	3.01	-9.09	6.39	Pass
	11	2462	-14.80	3.01	-11.79	6.39	Pass
1	1	2412	-15.94	3.01	-12.93	6.39	Pass
	6	2437	-10.99	3.01	-7.98	6.39	Pass
	11	2462	-16.18	3.01	-13.17	6.39	Pass

Note: The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power density limit shall be reduced to 8-(7.61-6) = 6.39 dBm.

802.11ax (HE20)

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-17.83	3.01	0.10	-14.72	6.39	Pass
	6	2437	-13.60	3.01	0.10	-10.49	6.39	Pass
	11	2462	-17.30	3.01	0.10	-14.19	6.39	Pass
1	1	2412	-17.89	3.01	0.10	-14.78	6.39	Pass
	6	2437	-12.86	3.01	0.10	-9.75	6.39	Pass
	11	2462	-16.99	3.01	0.10	-13.88	6.39	Pass

Note: 1. The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power density limit shall be reduced to 8-(7.61-6) = 6.39 dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

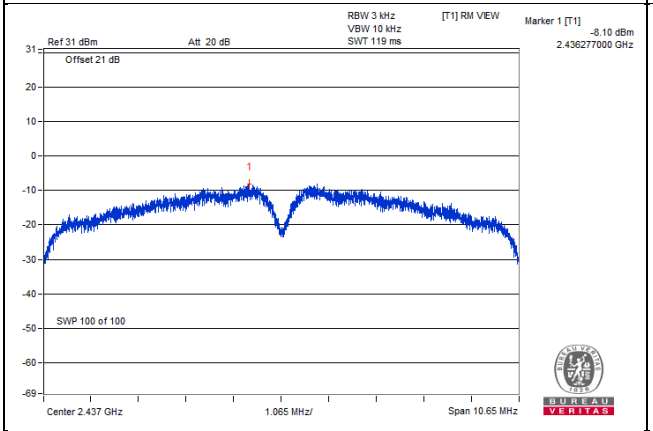
802.11ax (HE40)

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-21.52	3.01	0.23	-18.28	6.39	Pass
	6	2437	-18.39	3.01	0.23	-15.15	6.39	Pass
	9	2452	-20.13	3.01	0.23	-16.89	6.39	Pass
1	3	2422	-21.44	3.01	0.23	-18.20	6.39	Pass
	6	2437	-19.03	3.01	0.23	-15.79	6.39	Pass
	9	2452	-20.54	3.01	0.23	-17.30	6.39	Pass

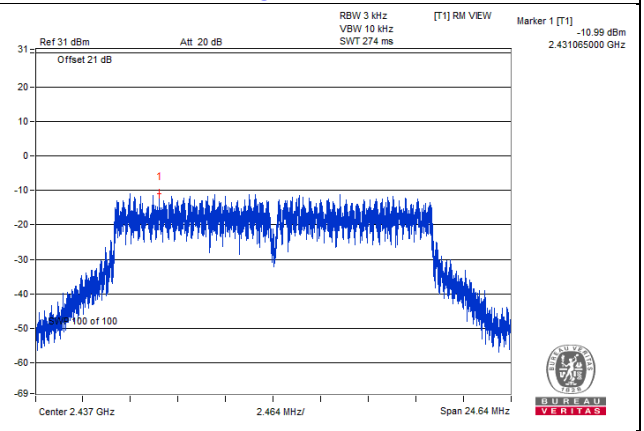
Note: 1. The directional gain 4.6 dBi + 10log(2) = 7.61 dBi > 6dBi, so the power density limit shall be reduced to 8-(7.61-6) = 6.39 dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

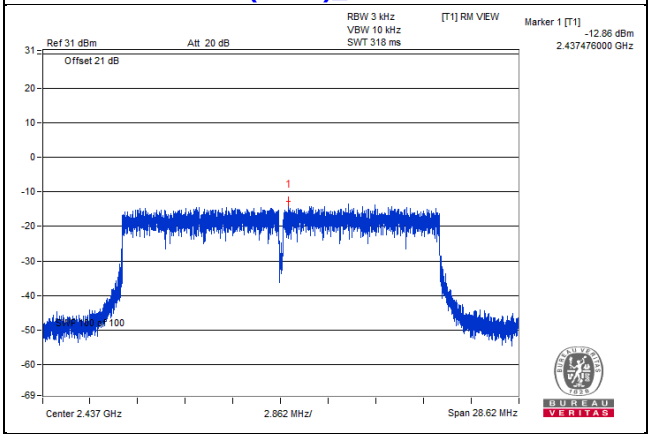
802.11b_Chain 1 / CH6



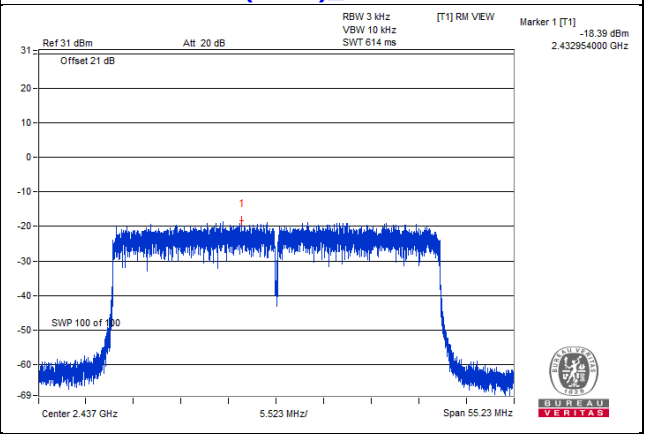
802.11g_Chain 1 / CH6



802.11ax (HE20)_Chain 1 / CH6



802.11ax (HE40)_Chain 0 / CH6



4.5.8 Test Results (Mode 2)

802.11b

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-11.99	8	Pass
6	2437	-8.42	8	Pass
11	2462	-10.48	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-14.79	8	Pass
6	2437	-9.44	8	Pass
11	2462	-14.20	8	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-15.70	0.10	-15.60	8	Pass
6	2437	-12.22	0.10	-12.12	8	Pass
11	2462	-16.30	0.10	-16.20	8	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

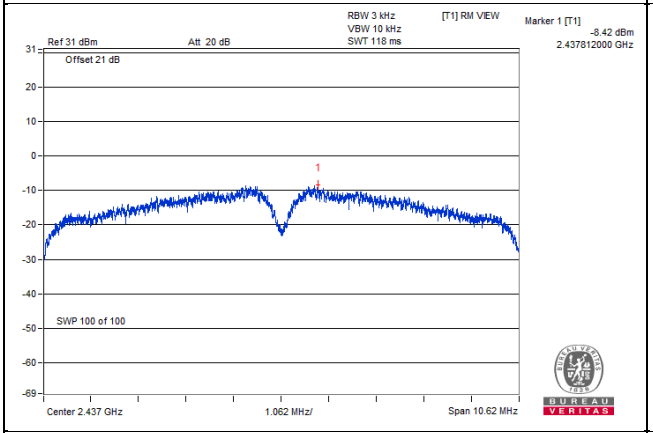
802.11ax (HE40)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-20.97	0.23	-20.74	8	Pass
6	2437	-17.50	0.23	-17.27	8	Pass
9	2452	-18.74	0.23	-18.51	8	Pass

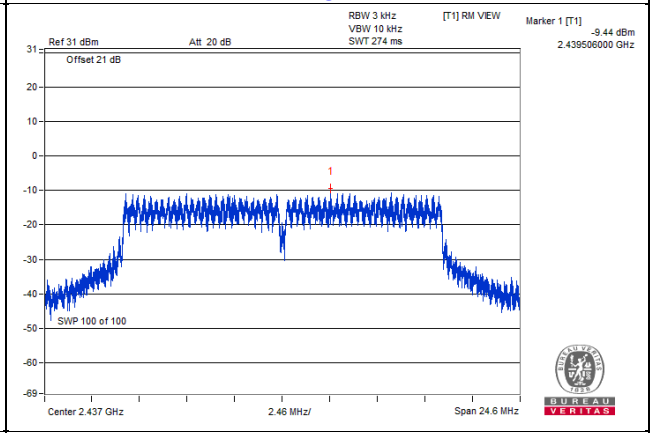
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

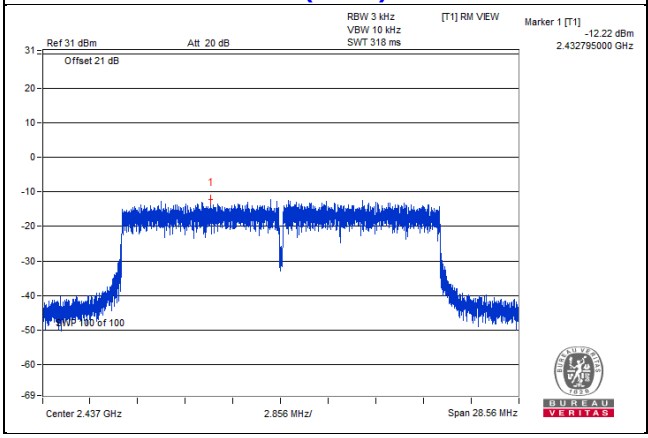
802.11b / CH6



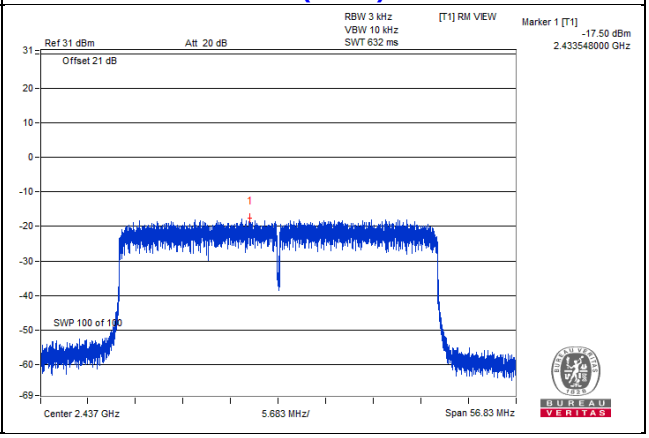
802.11g / CH6



802.11ax (HE20) / CH6



802.11ax (HE40) / CH6



4.5.9 Test Results (Mode 3)

802.11b

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-9.85	8	Pass
6	2437	-9.17	8	Pass
11	2462	-9.42	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-13.28	8	Pass
6	2437	-9.70	8	Pass
11	2462	-13.39	8	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-13.55	0.10	-13.45	8	Pass
6	2437	-10.77	0.10	-10.67	8	Pass
11	2462	-14.83	0.10	-14.73	8	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

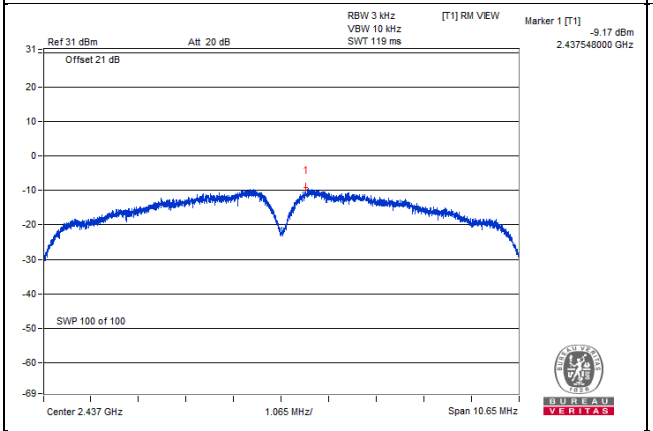
802.11ax (HE40)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-17.63	0.18	-17.45	8	Pass
6	2437	-16.29	0.18	-16.11	8	Pass
9	2452	-17.58	0.18	-17.40	8	Pass

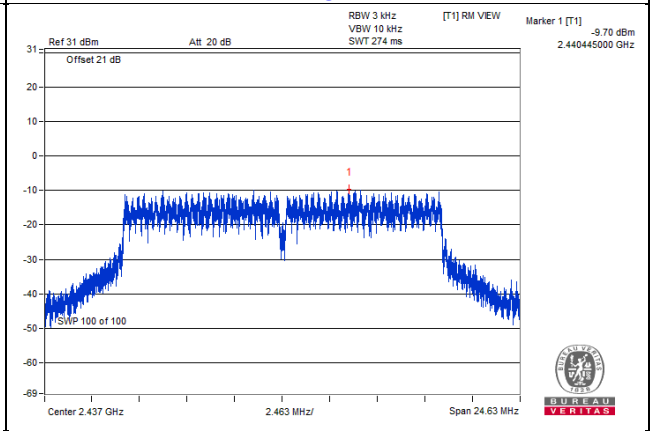
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

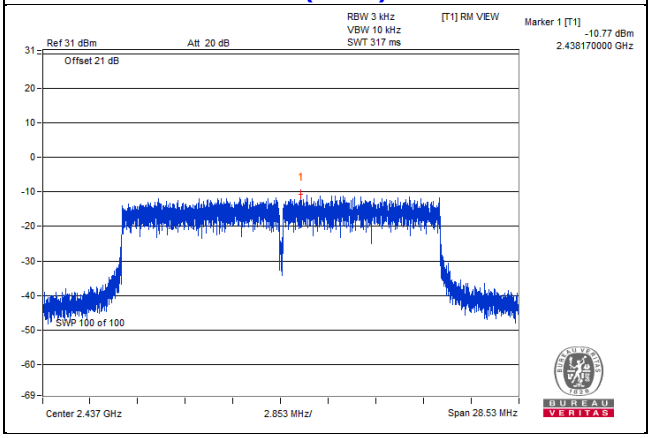
802.11b / CH6



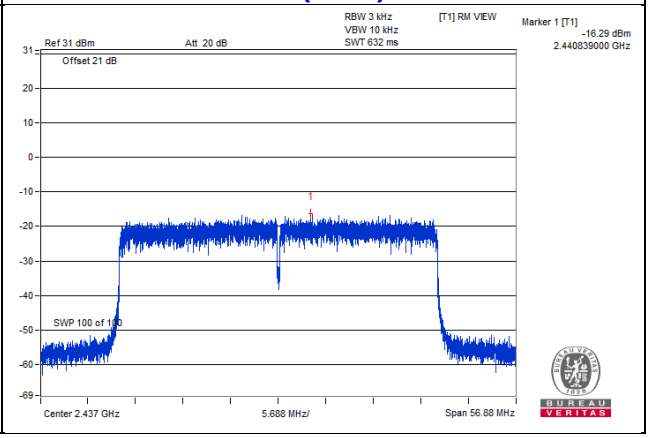
802.11g / CH6



802.11ax (HE20) / CH6



802.11ax (HE40) / CH6

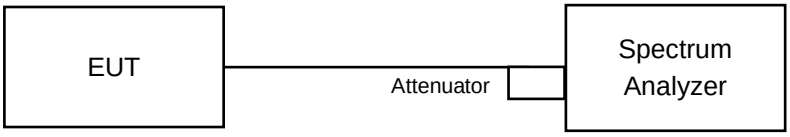


4.6 Conducted Out of Band Emission Measurement

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

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

MEASUREMENT PROCEDURE OOBE

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

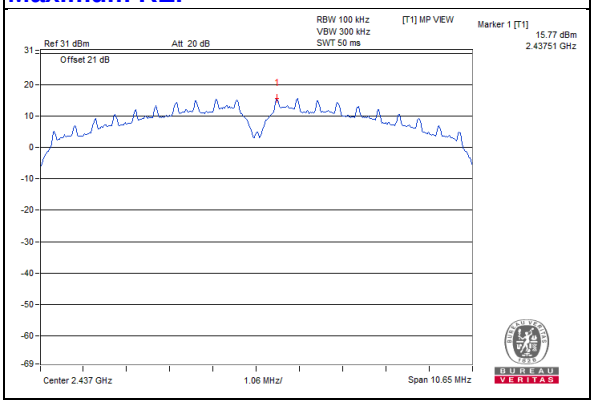
Same as Item 4.3.6

4.6.7 Test Results (Mode 1)

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.

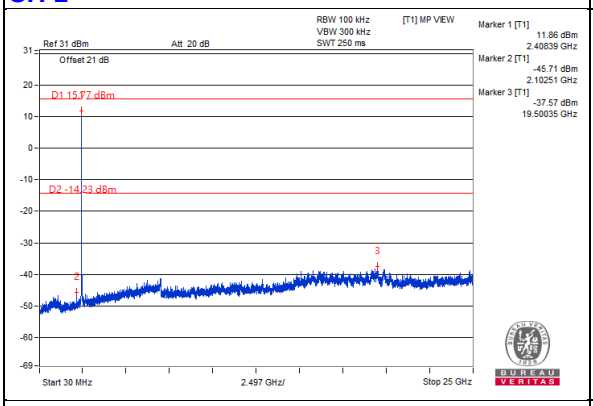
802.11b

Maximum REF

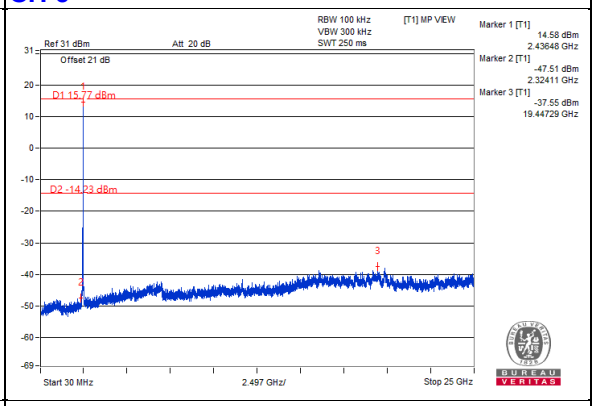


Chain 0

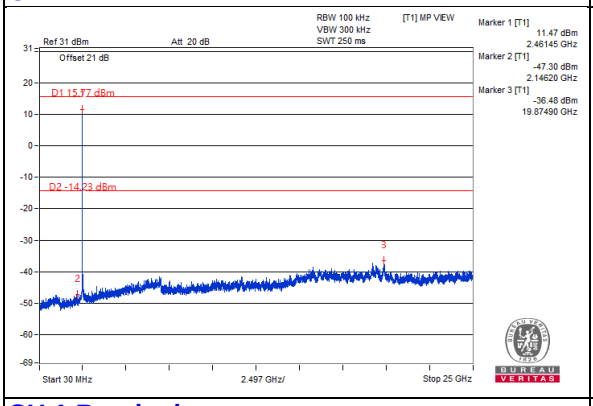
CH 1



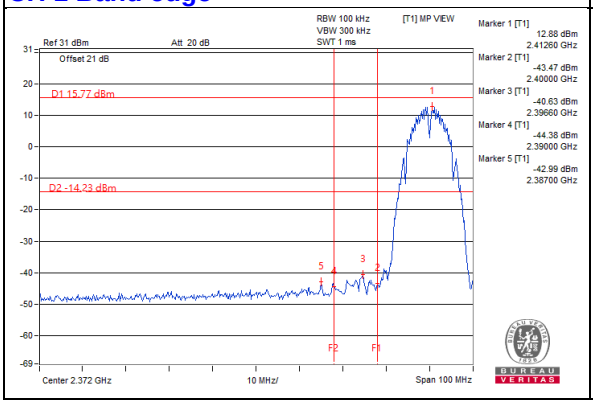
CH 6



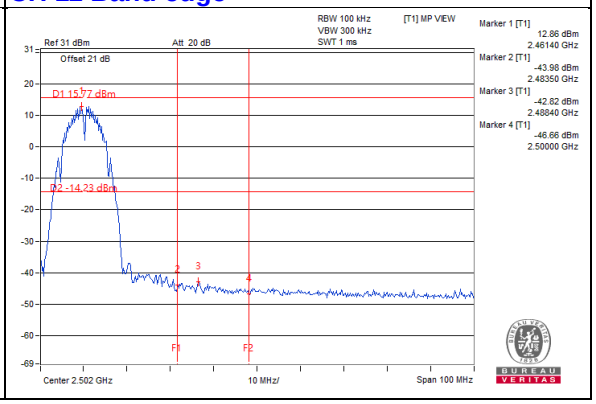
CH 11



CH 1 Band edge

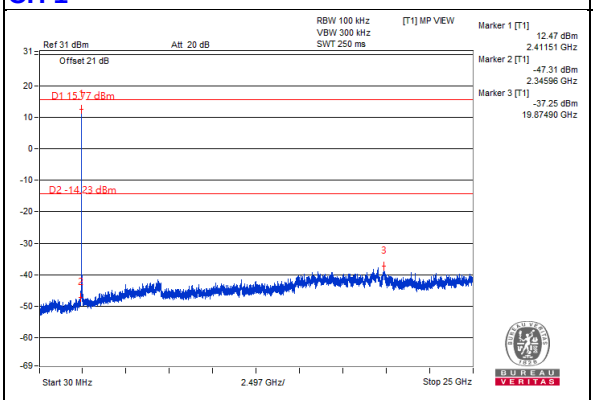


CH 11 Band edge

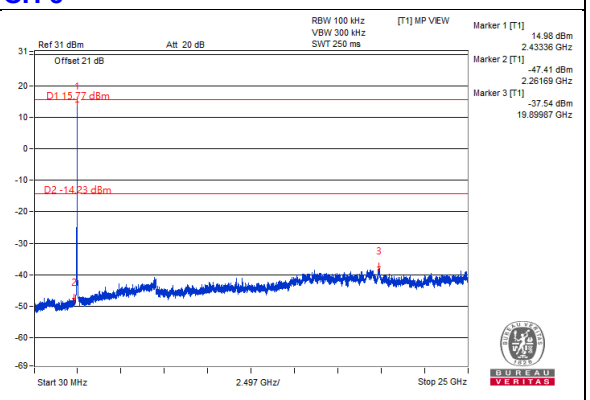


Chain 1

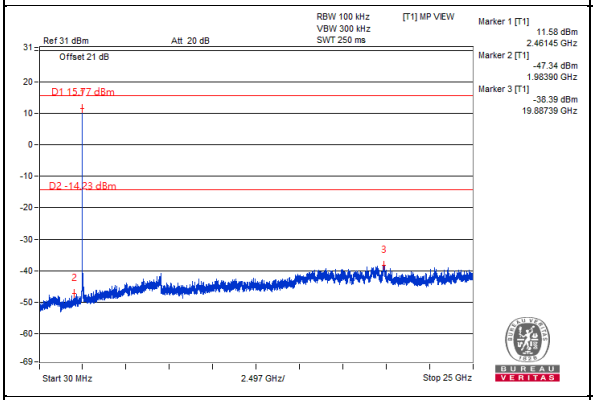
CH 1



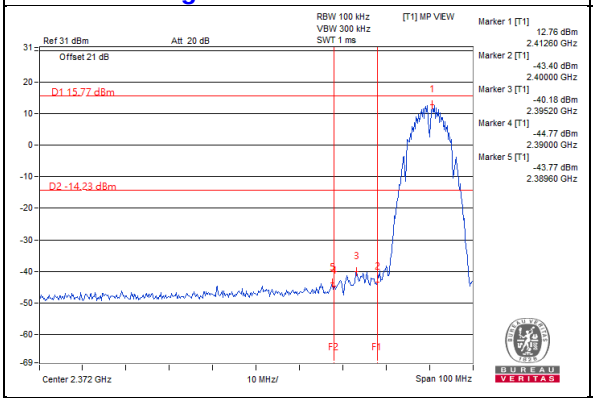
CH 6



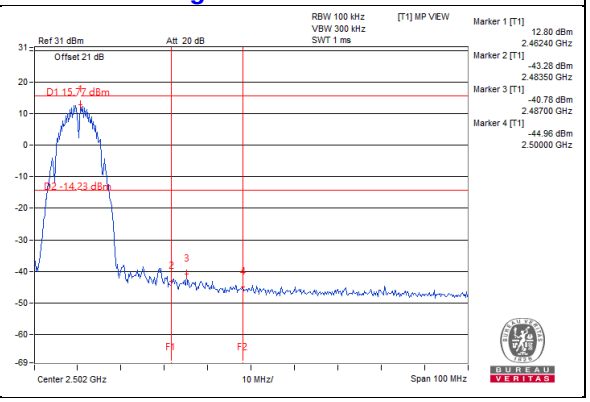
CH 11



CH 1 Band edge

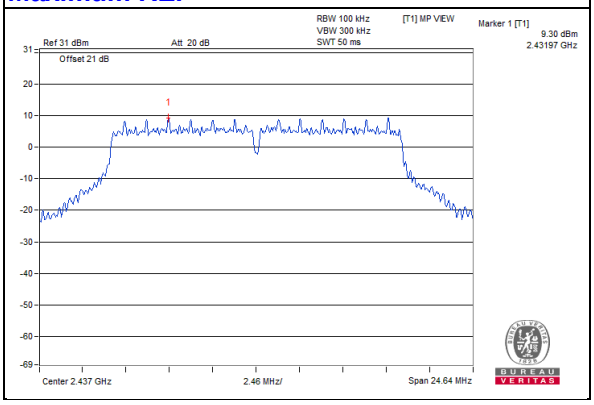


CH 11 Band edge



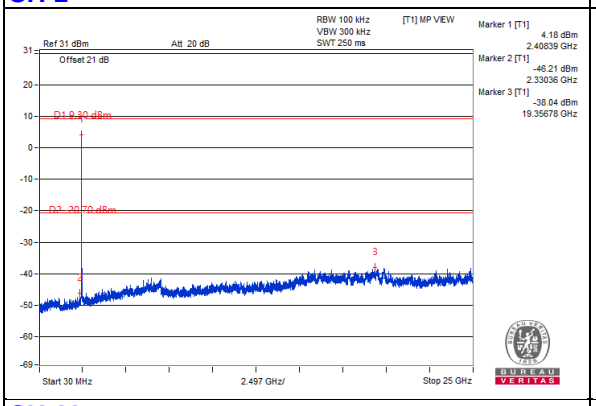
802.11g

Maximum REF

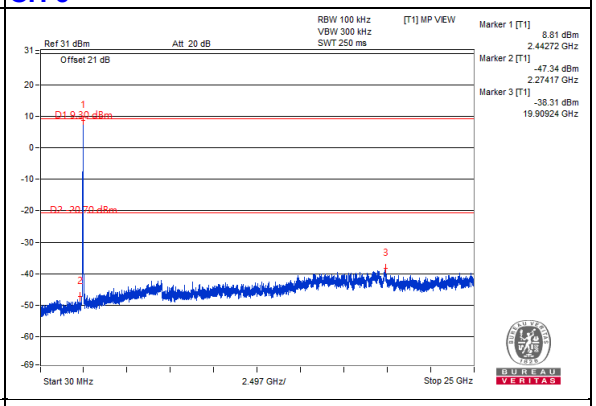


Chain 0

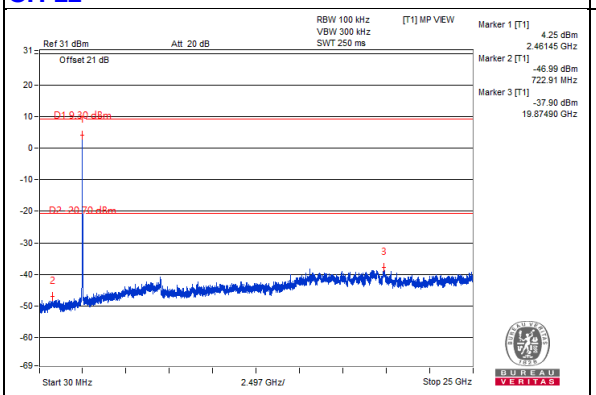
CH 1



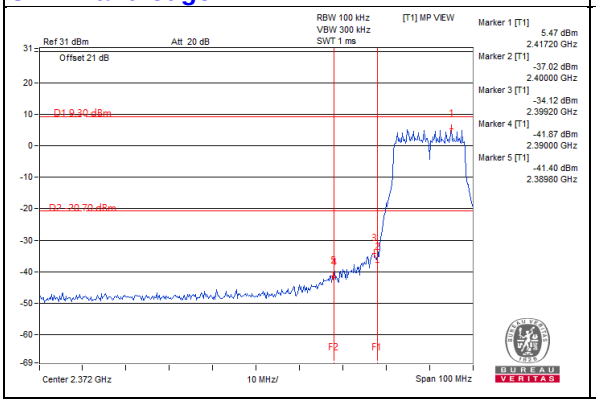
CH 6



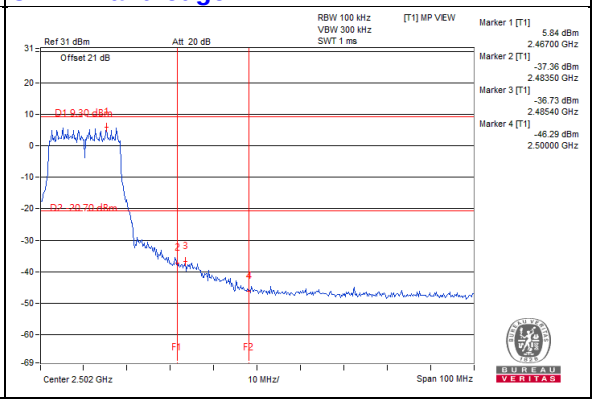
CH 11



CH 1 Band edge

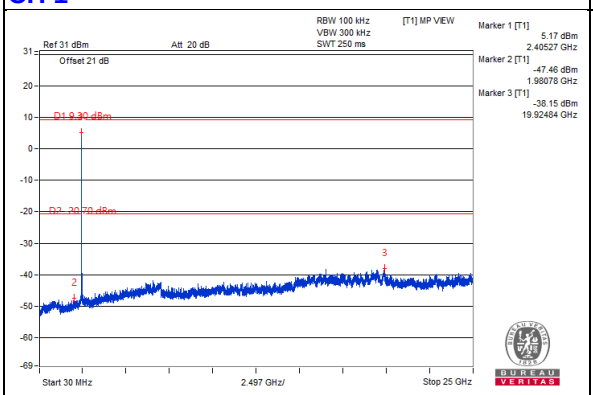


CH 11 Band edge

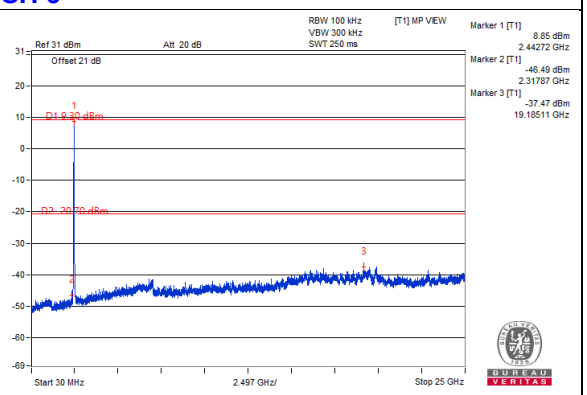


Chain 1

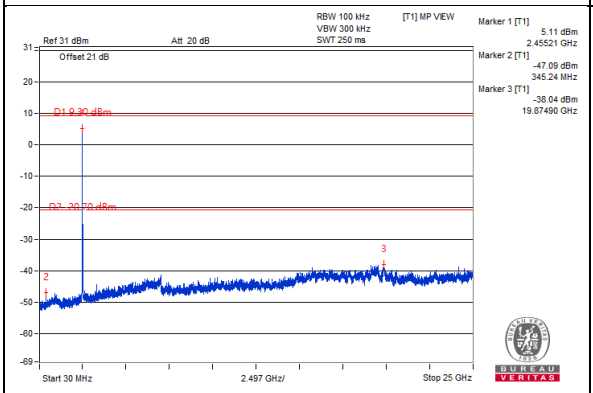
CH 1



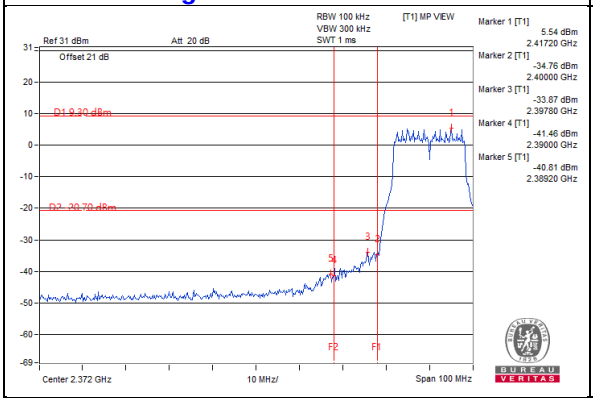
CH 6



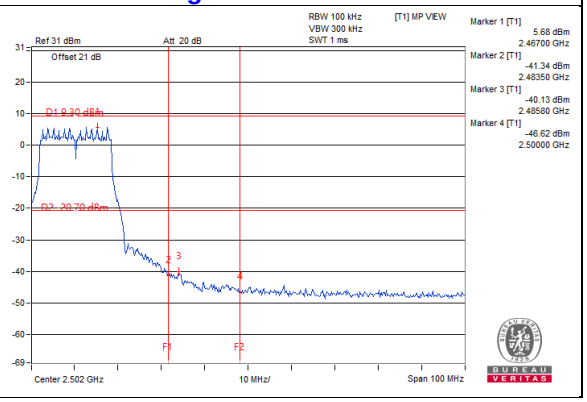
CH 11



CH 1 Band edge

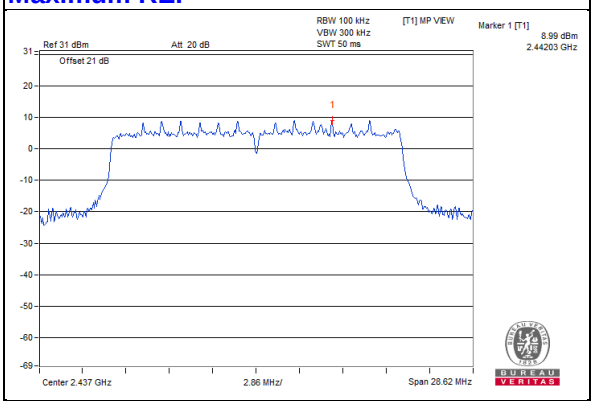


CH 11 Band edge



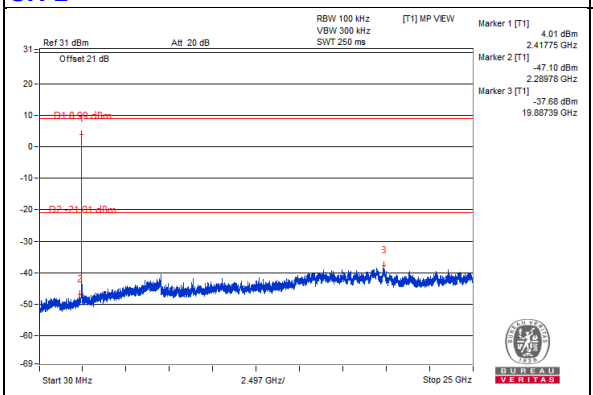
802.11ax (HE20)

Maximum REF

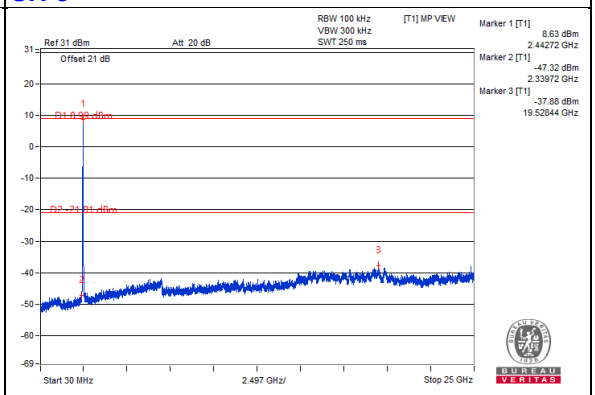


Chain 0

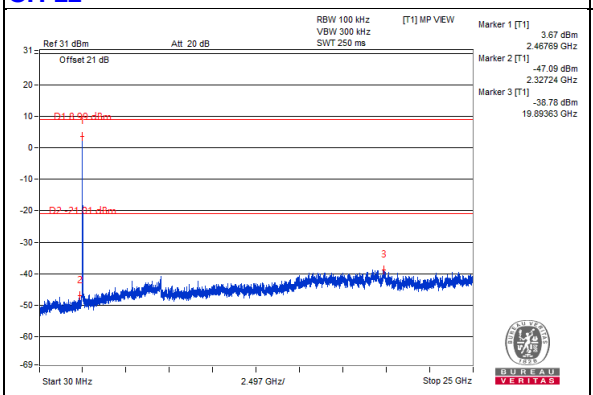
CH 1



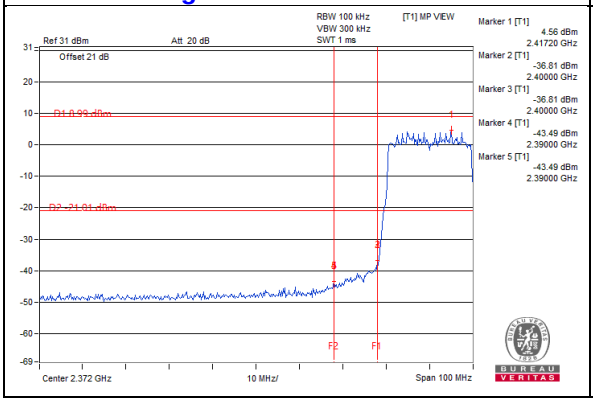
CH 6



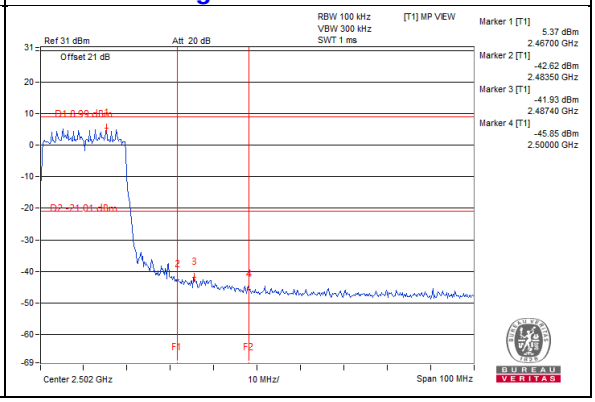
CH 11



CH 1 Band edge

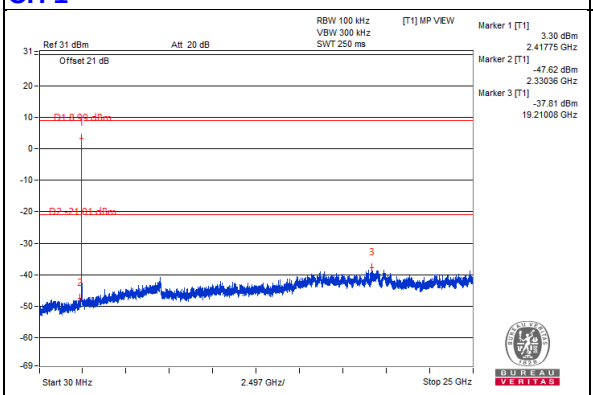


CH 11 Band edge

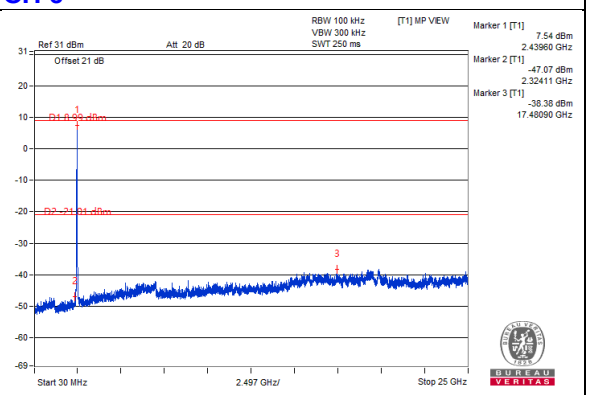


Chain 1

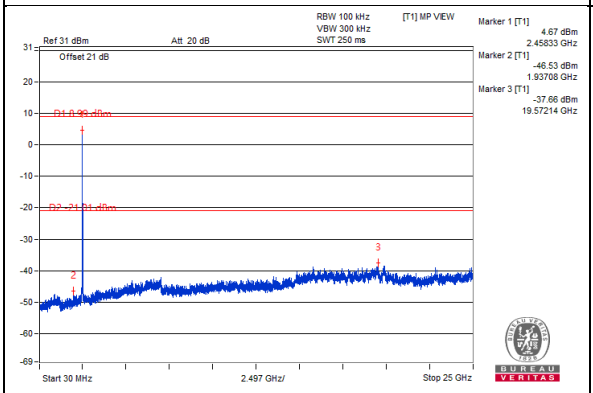
CH 1



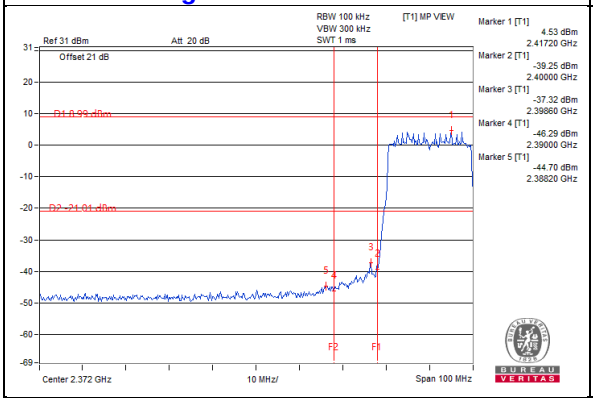
CH 6



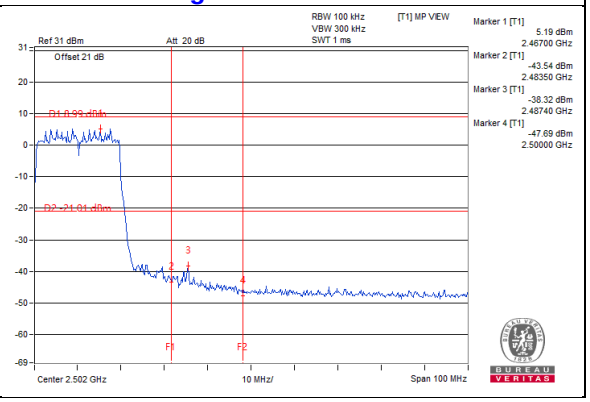
CH 11



CH 1 Band edge

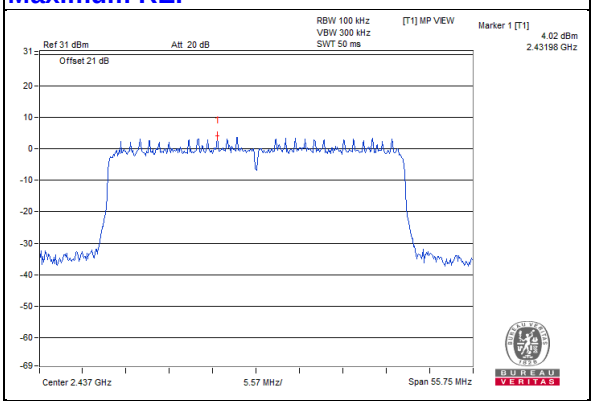


CH 11 Band edge



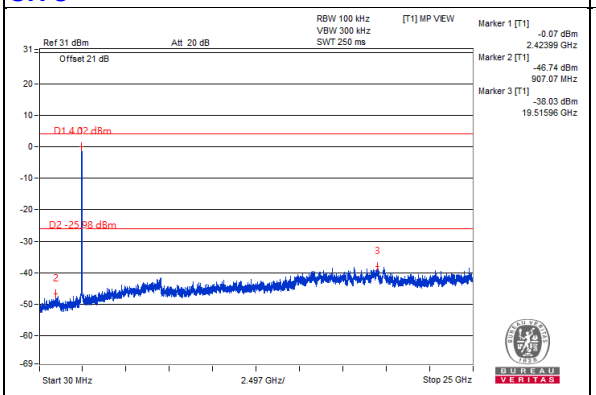
802.11ax (HE40)

Maximum REF

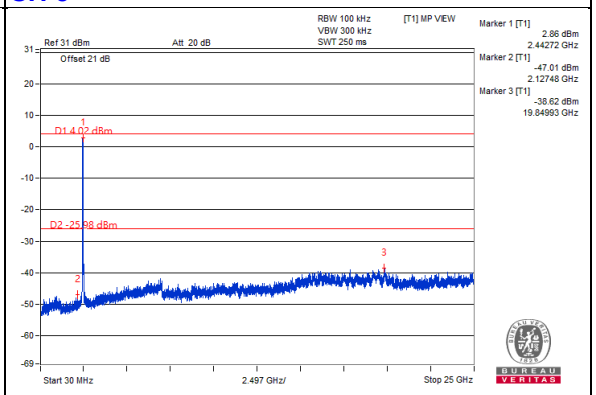


Chain 0

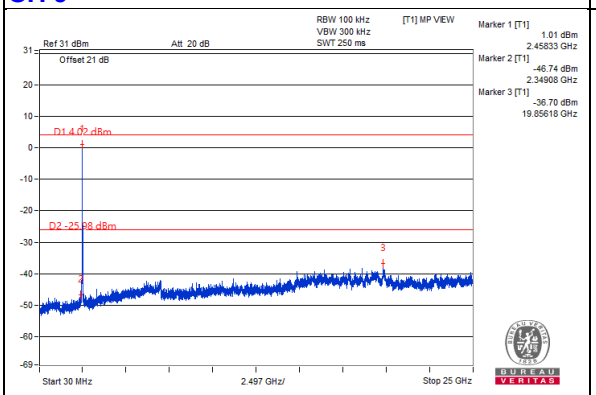
CH 3



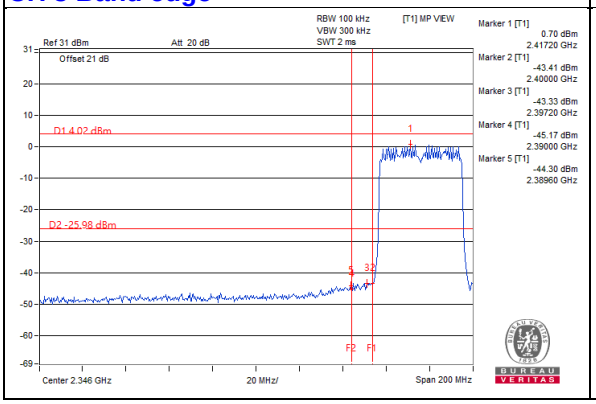
CH 6



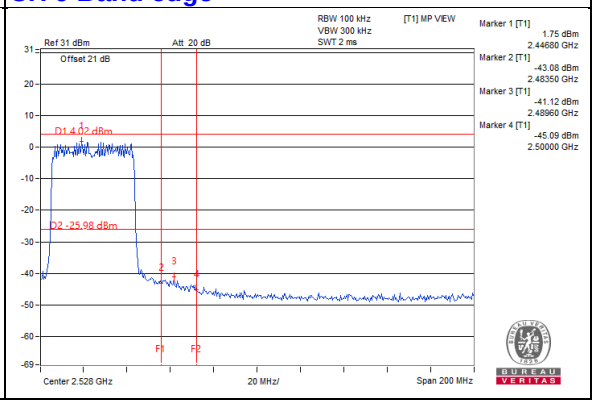
CH 9



CH 3 Band edge

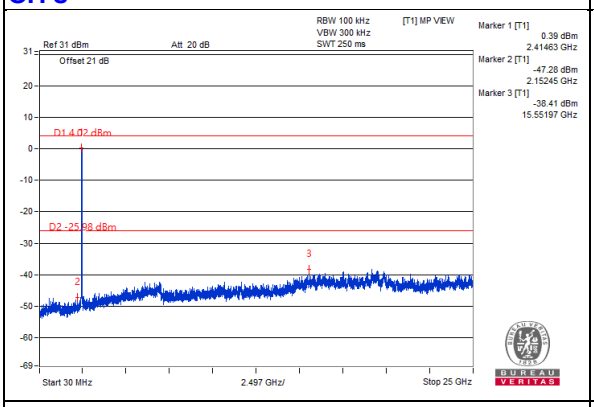


CH 9 Band edge

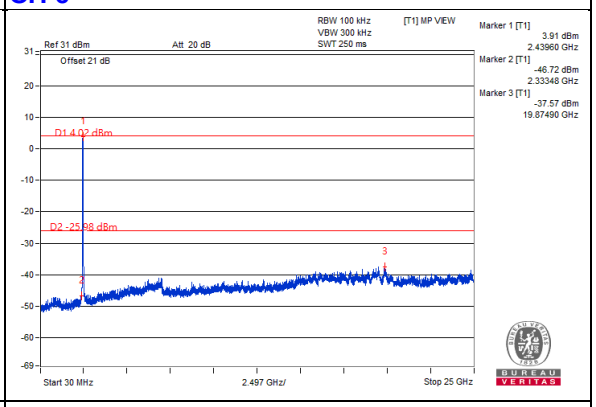


Chain 1

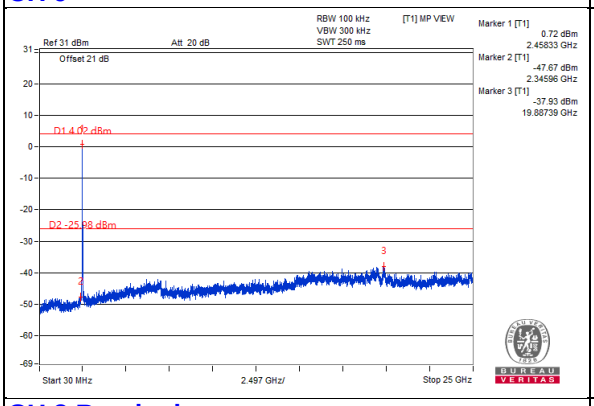
CH 3



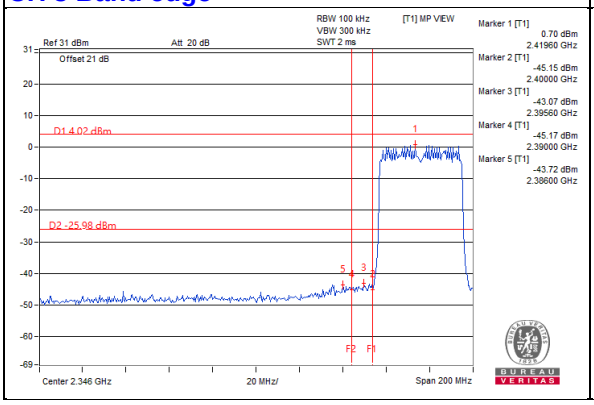
CH 6



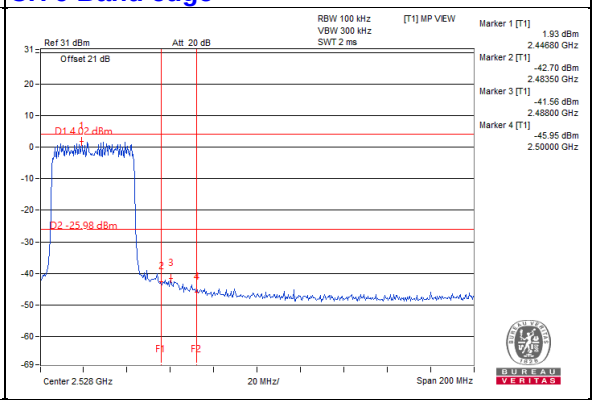
CH 9



CH 3 Band edge



CH 9 Band edge

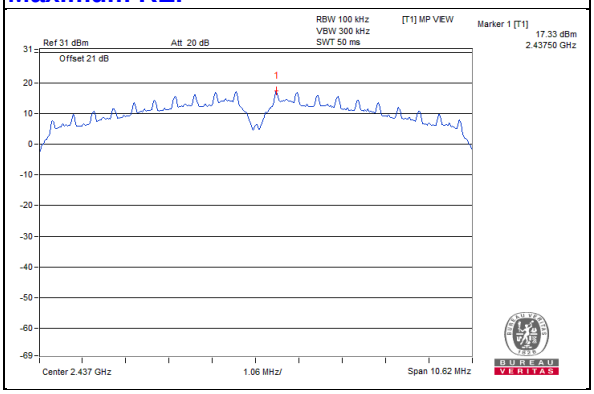


4.6.8 Test Results (Mode 2)

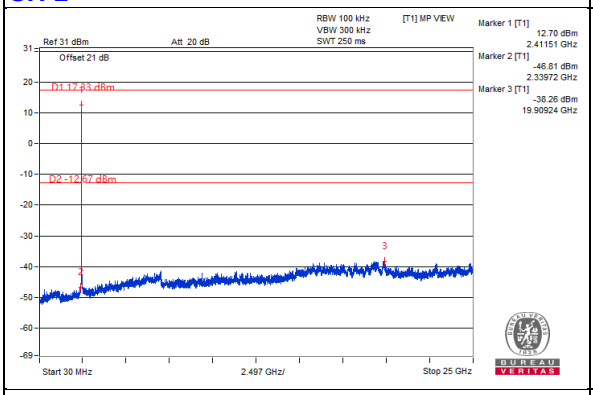
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

802.11b

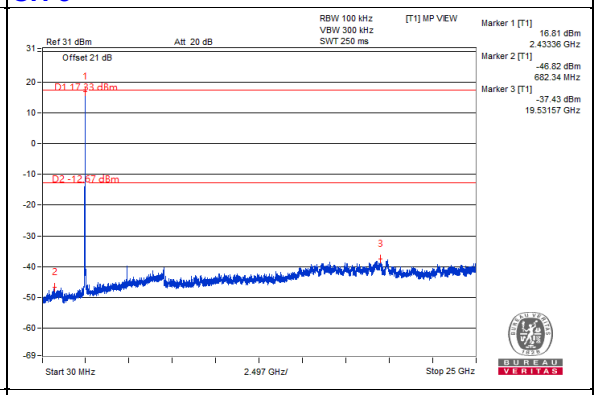
Maximum REF



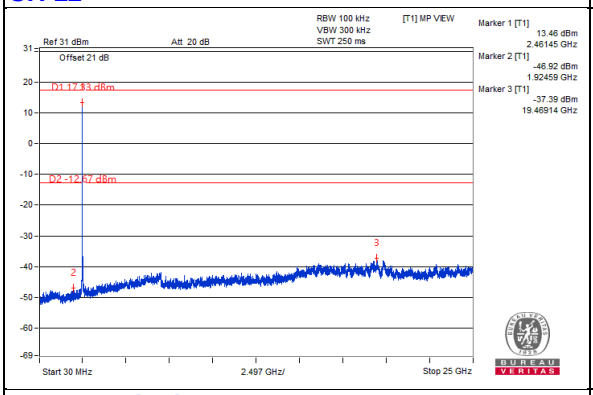
CH 1



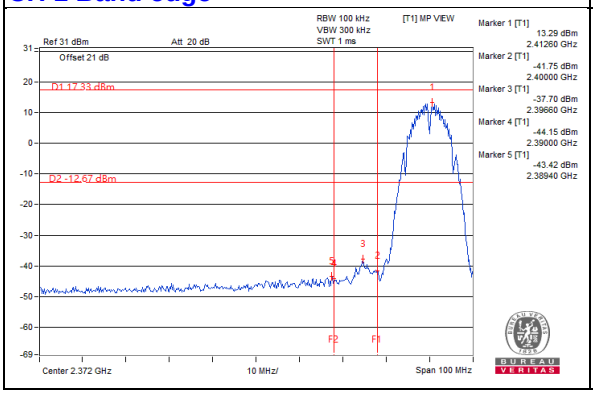
CH 6



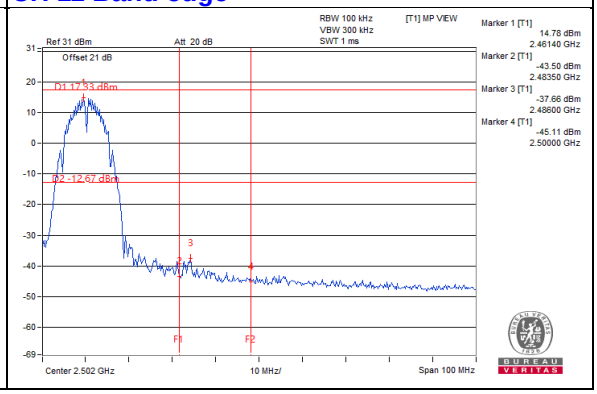
CH 11



CH 1 Band edge

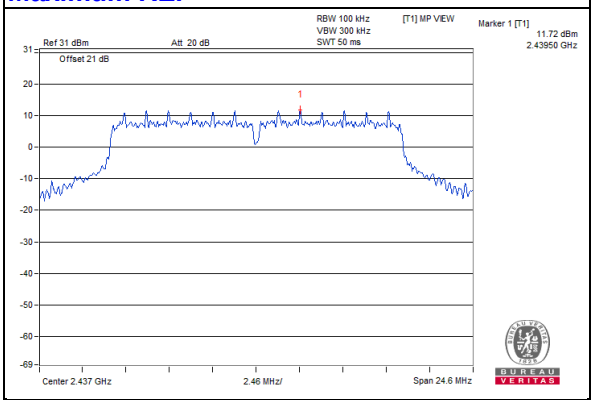


CH 11 Band edge

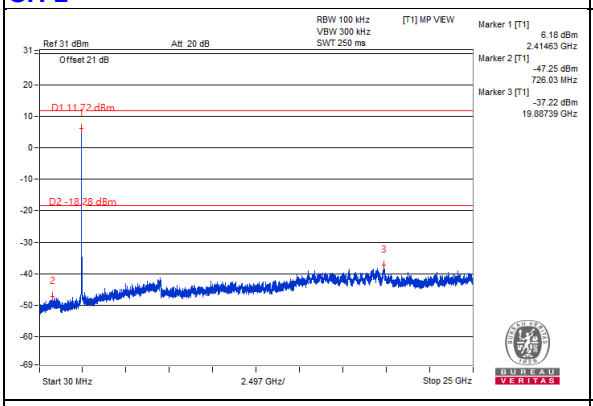


802.11g

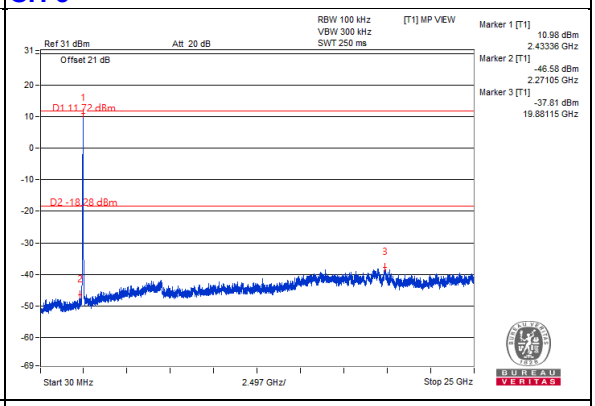
Maximum REF



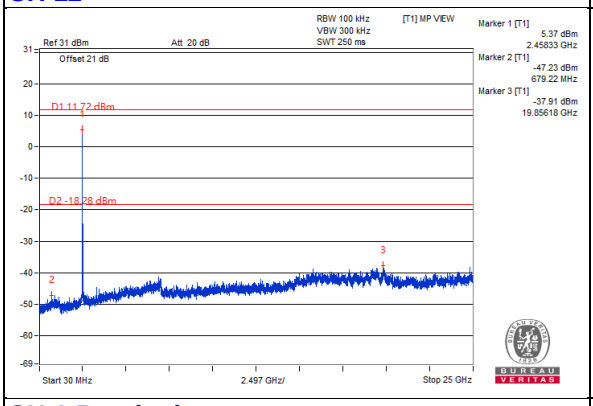
CH 1



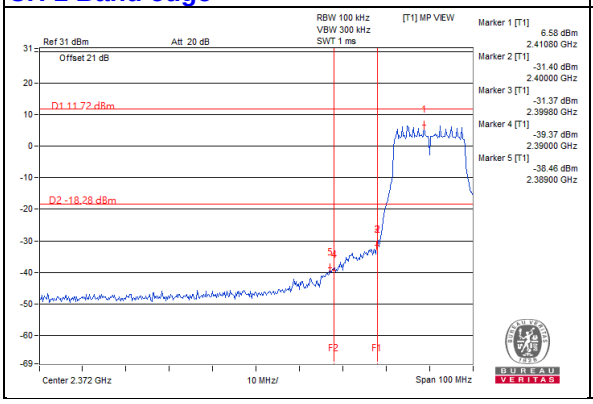
CH 6



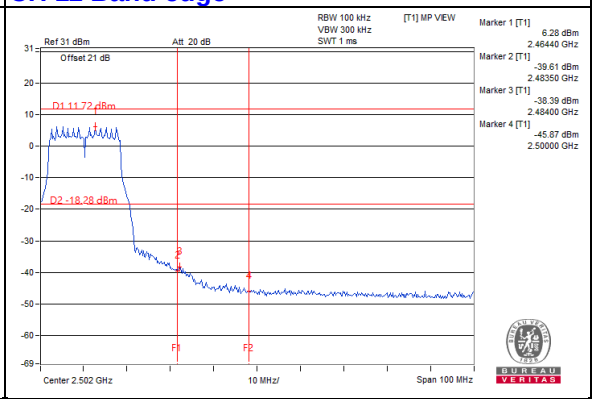
CH 11



CH 1 Band edge

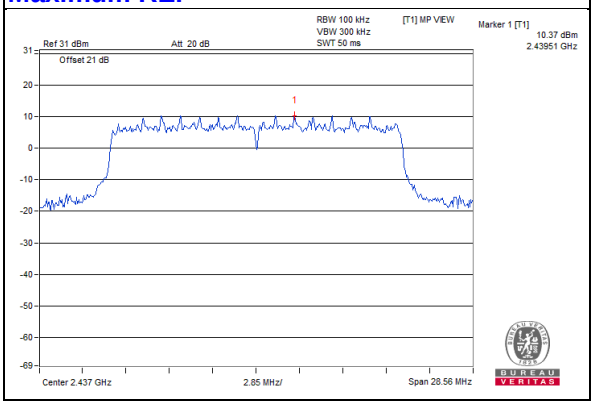


CH 11 Band edge

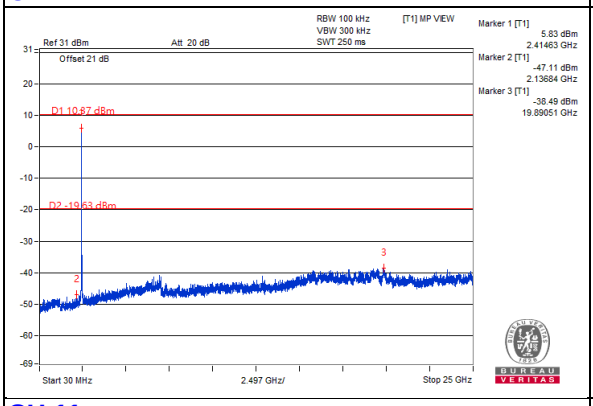


802.11ax (HE20)

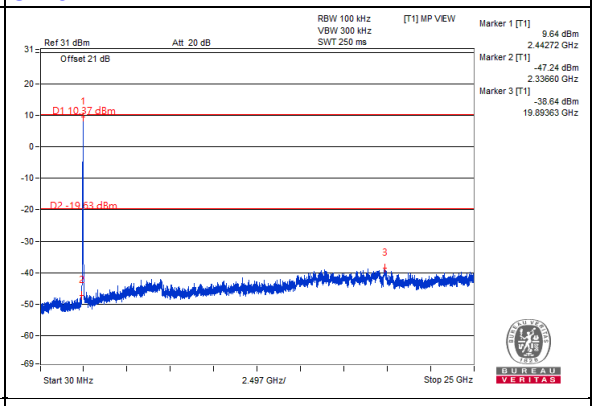
Maximum REF



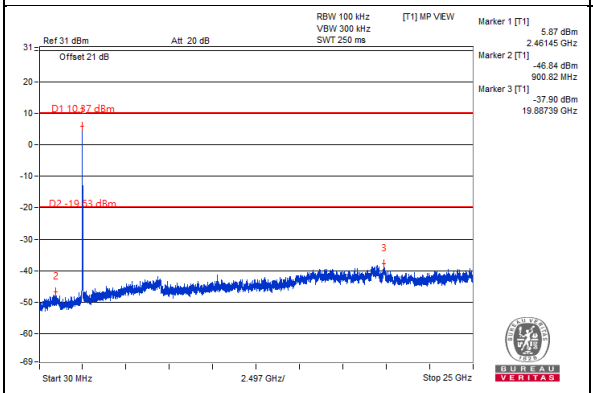
CH 1



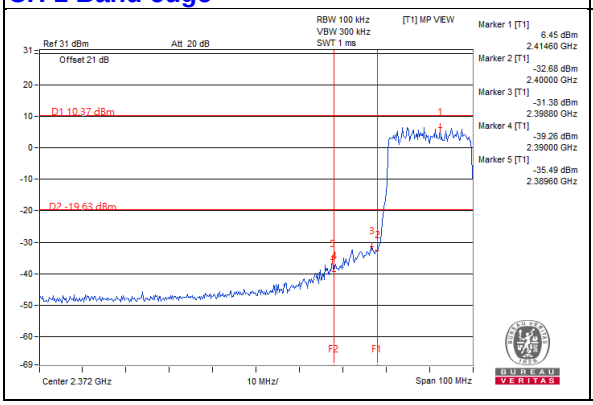
CH 6



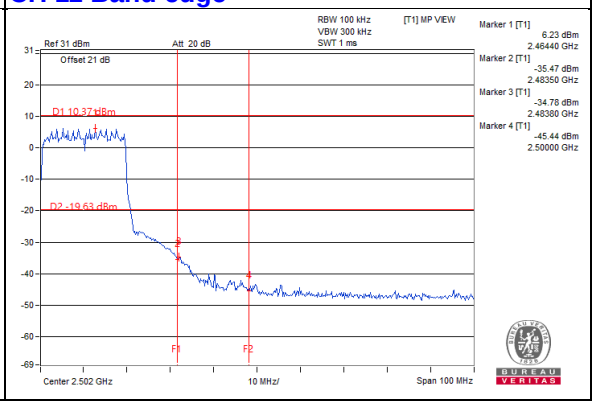
CH 11



CH 1 Band edge

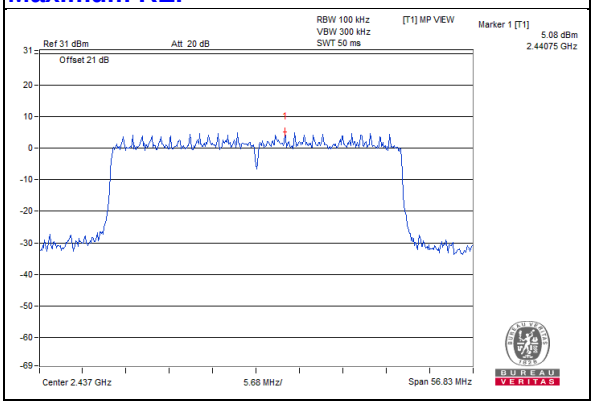


CH 11 Band edge

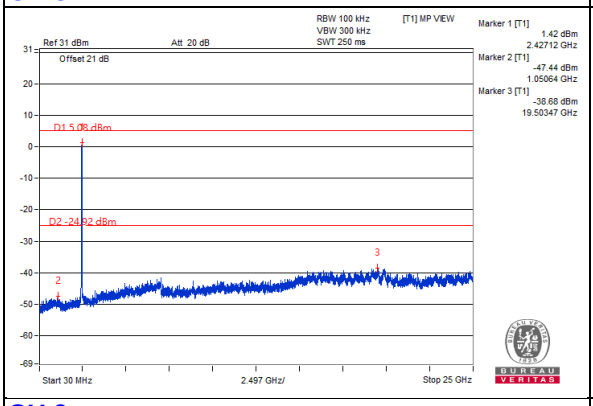


802.11ax (HE40)

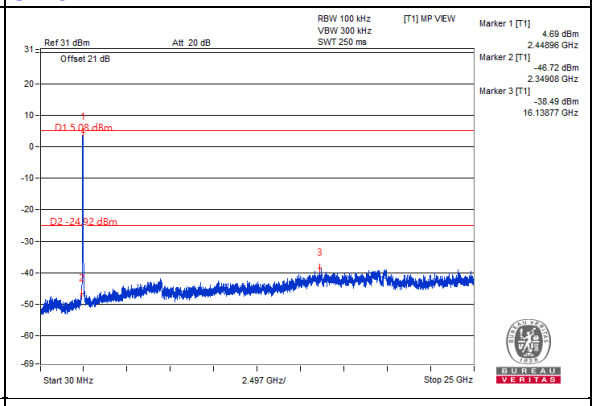
Maximum REF



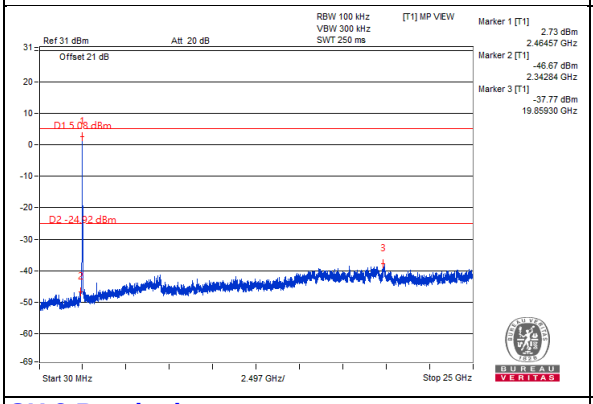
CH 3



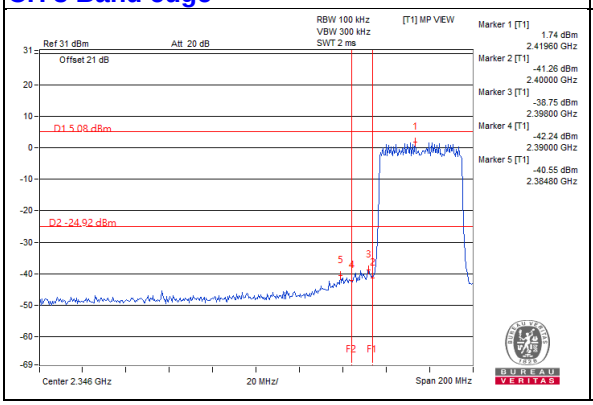
CH 6



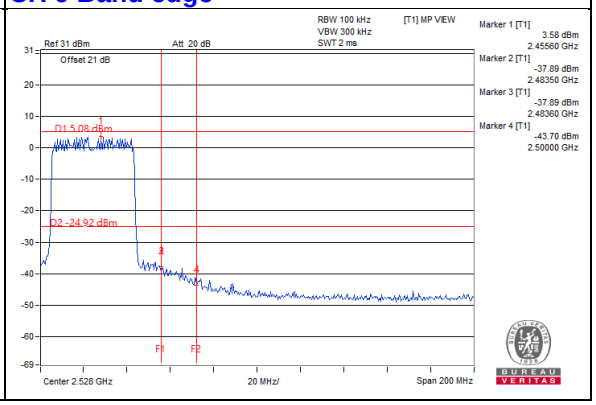
CH 9



CH 3 Band edge



CH 9 Band edge

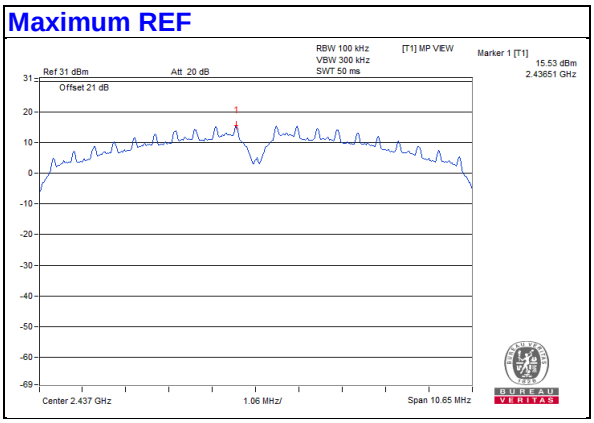


4.6.9 Test Results (Mode 3)

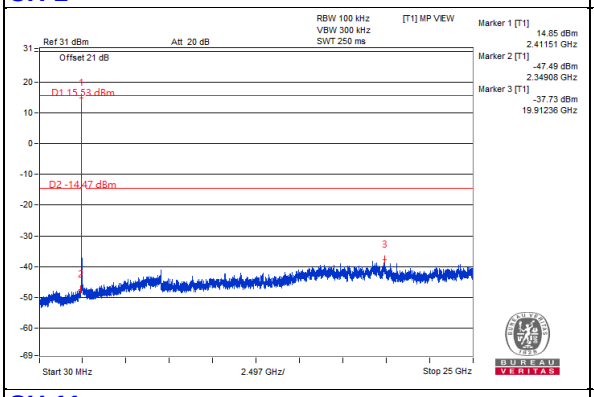
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

802.11b

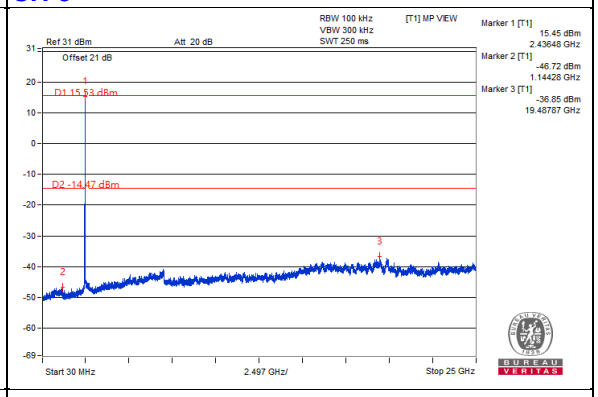
Maximum REF



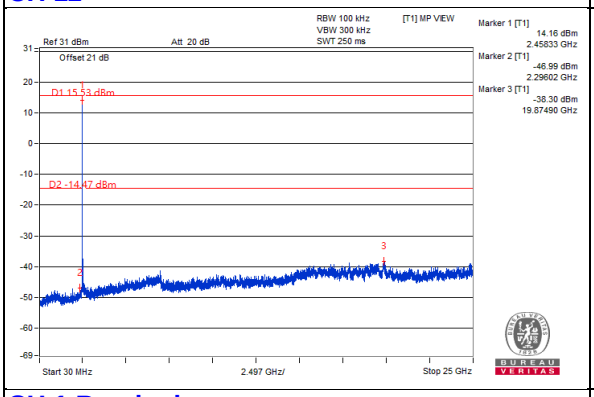
CH 1



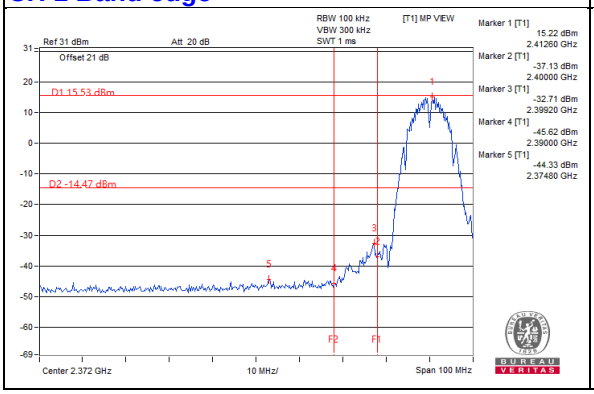
CH 6



CH 11



CH 1 Band edge



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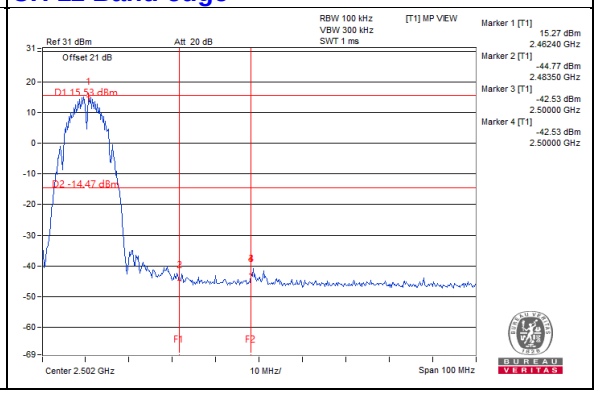
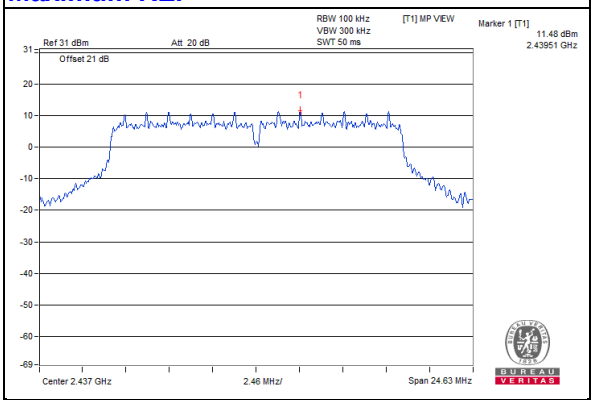
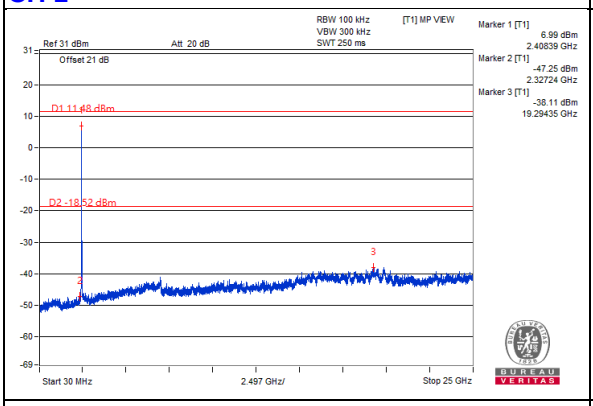


802.11g

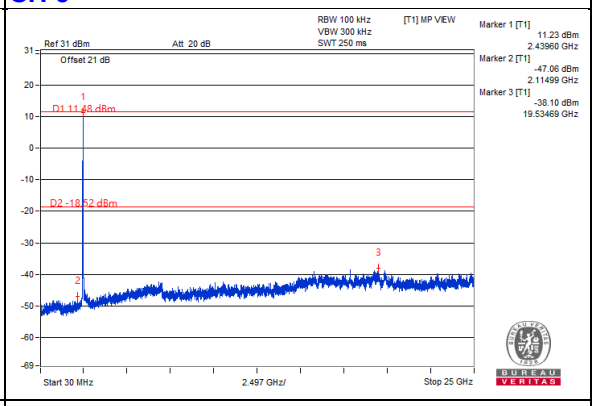
Maximum REF



CH 1



CH 6



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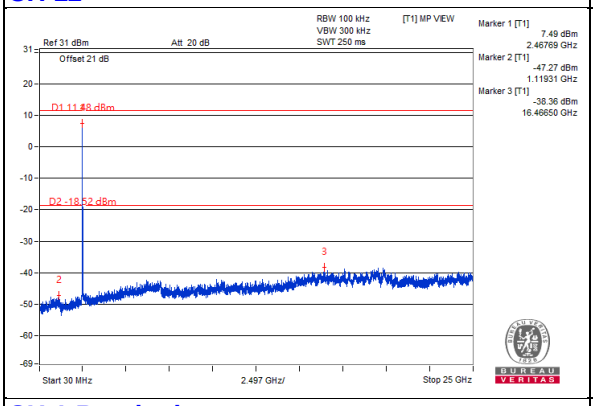
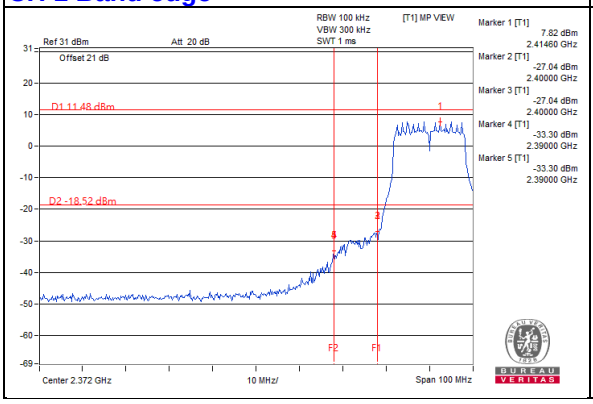


CH 1 Band edge



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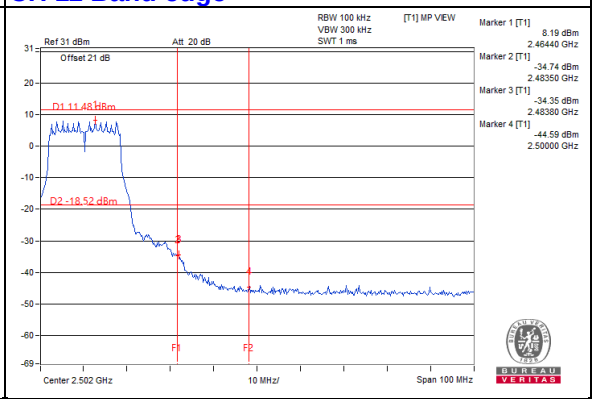
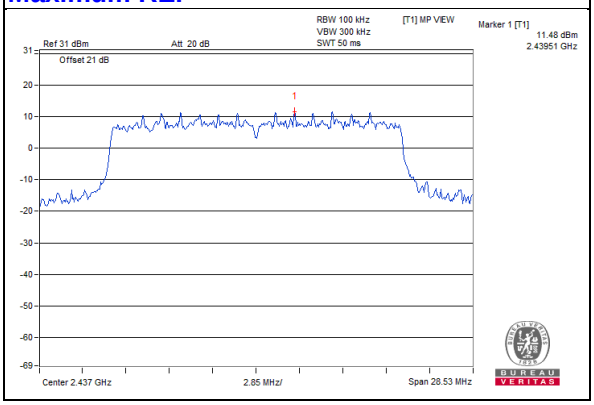
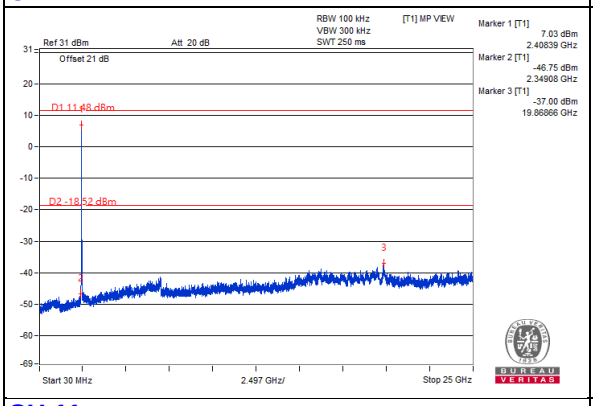


802.11ax (HE20)

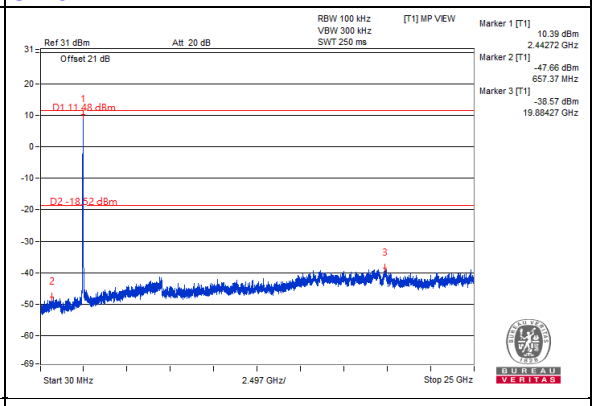
Maximum REF



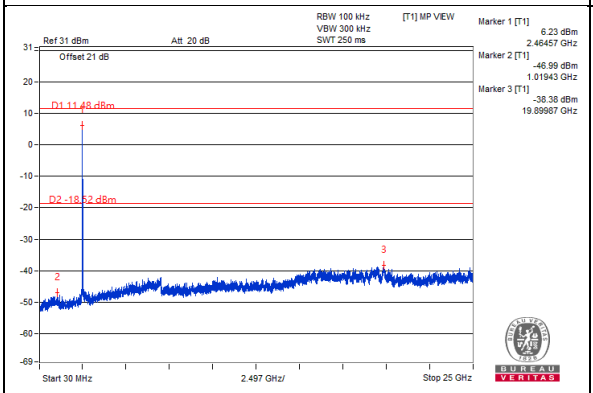
CH 1



CH 6



CH 11



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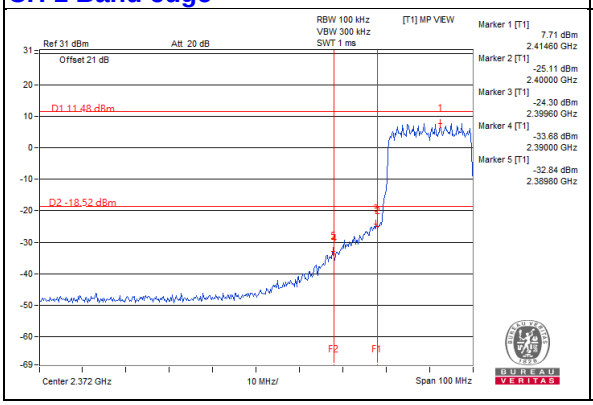

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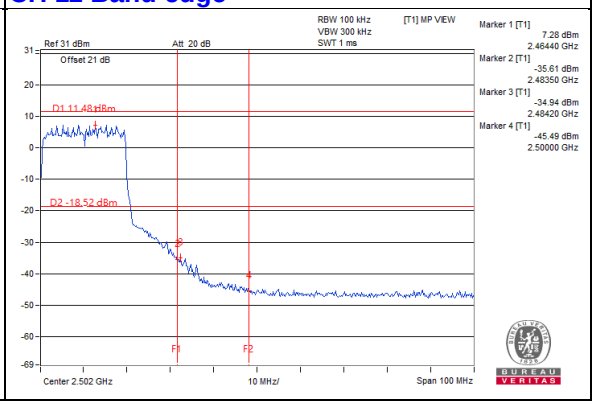
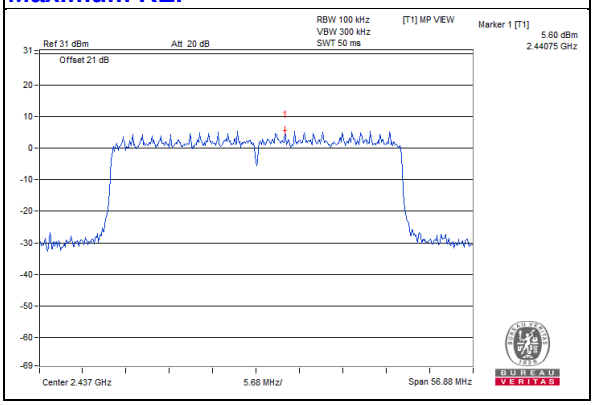
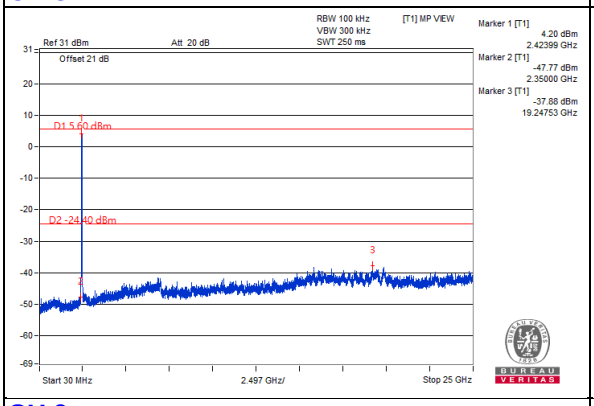


802.11ax (HE40)

Maximum REF



CH 3



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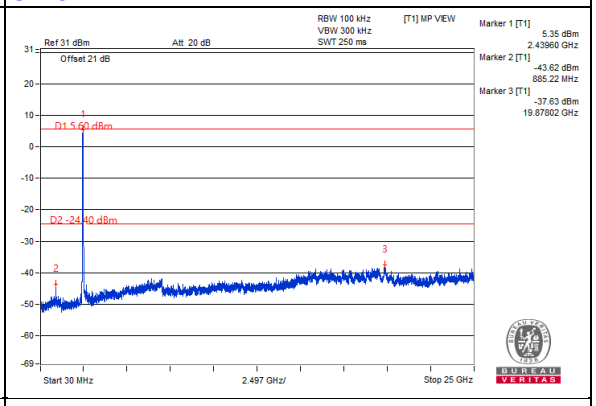
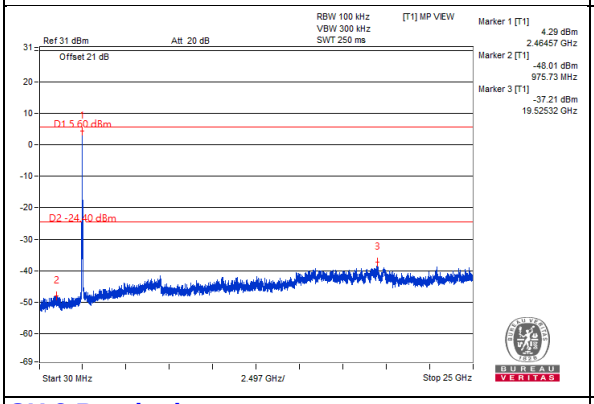
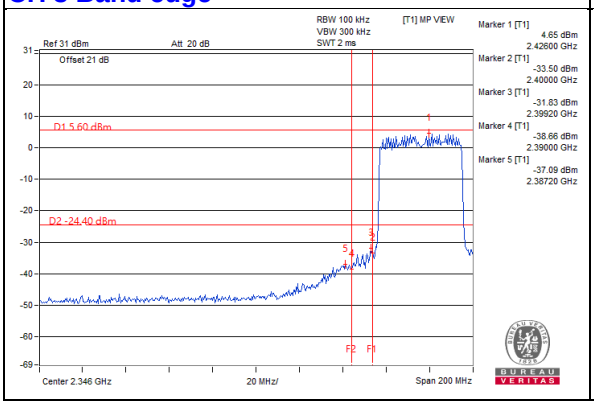


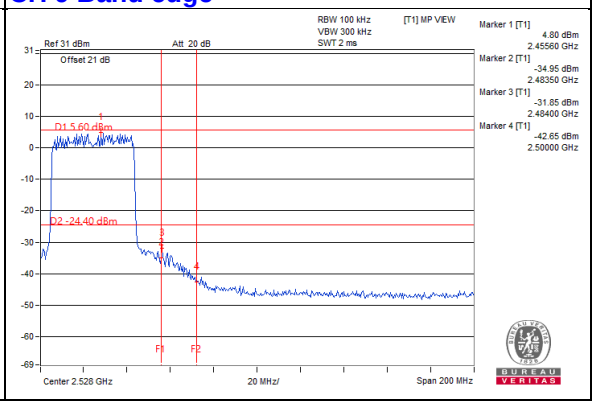
CH 9



CH 3 Band edge



CH 9 Band edge



5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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Email: service.adt@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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