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FCC TEST REPORT (WLAN 15.407)

REPORT NO.: RF140605E01-1

MODEL NO.: AW-CB178NF(UART), AW-CB178NF

FCC ID: TLZ-CB178NF

RECEIVED: Feb. 14, 2014

TESTED: Feb. 14 to Aug. 14, 2014

ISSUED: Sep. 26, 2014

APPLICANT: AzureWave Technologies, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140605E01-1	Original release	Sep. 26, 2014



1. CERTIFICATION

PRODUCT: 802.11ac/a/b/g/n 2X2 MIMO WLAN & Bluetooth M.2 module

BRAND NAME: AzureWave

MODEL NO.: AW-CB178NF(UART), AW-CB178NF

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: AzureWave Technologies, Inc.

TESTED: Feb. 14 to Aug. 14, 2014

STANDARDS: **FCC Part 15, Subpart E (Section 15.407)**
ANSI C63.10-2009

The above equipment (Model: AW-CB178NF(UART), AW-CB178NF) have 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 : Midoli Peng , **Date:** Sep. 26, 2014
(Midoli Peng, Specialist)

Approved by : May Chen , **Date:** Sep. 26, 2014
(May Chen, Manager)



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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -14.08dB at 0.53281MHz
15.407(b)(1/2/3) (b)(5)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.2dB at 5150.00MHz, 5470.00MHz & 5725.00MHz
15.407(a)(1/2)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a)(1/2)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	1. For PCB Antenna connector is R-SMA not a standard connector. 2. For PIFA Antenna connector is mini - ipex not a standard connector.

NOTE: 1. For WLAN: The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz. For the 2400 ~ 2483.5MHz and 5.725~5.850GHz RF parameters was recorded in another test report.

2. The DFS report was recorded in another test report.



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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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.86 dB
Radiated emissions (30MHz-1GHz) for Chamber H	5.43 dB
Radiated emissions (30MHz-1GHz) for Chamber G	5.37 dB
Radiated emissions (1GHz -6GHz)	3.72 dB
Radiated emissions (6GHz -18GHz)	4.00 dB
Radiated emissions (18GHz - 40GHz)	4.11 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT (WLAN)

PRODUCT	802.11ac/a/b/g/n 2X2 MIMO WLAN & Bluetooth M.2 module
MODEL NO.	AW-CB178NF(UART), AW-CB178NF
POWER SUPPLY	3.3Vdc (from host equipment)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only
MODULATION TECHNOLOGY	DSSS,OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a / g: up to 54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
OPERATING FREQUENCY	For 15.407 5GHz: 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.58GHz & 5.66GHz ~ 5.70GHz
	For 15.247 2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.745 ~ 5.825GHz
NUMBER OF CHANNEL	For 15.407 16 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 7 for 802.11n (HT40), 802.11ac (VHT40) 3 for 802.11ac (VHT80)
	For 15.247 (2.4GHz) 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
	For 15.247 (5GHz) 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)



MAXIMUM OUTPUT POWER	For 15.407 802.11a: 92.229mW 802.11ac (VHT20): 96.455mW 802.11ac (VHT40): 71.625mW 802.11ac (VHT80): 15.489mW
	For 15.247 (2.4GHz) 802.11b: 195.223mW 802.11g: 738.888mW 802.11n (HT20): 749.096mW 802.11n (HT40): 297.044mW
	For 15.247 (5GHz) 802.11a: 381.898mW 802.11ac (VHT20): 386.999mW 802.11ac (VHT40): 368.999mW 802.11ac (VHT80): 256.483mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

NOTE:

1. There are Bluetooth 4.0 technology and WLAN (2.4GHz and 5GHz) technology used for the EUT.
2. For WLAN: 2.4GHz and 5GHz technology cannot transmit at same time.
3. WLAN/BT coexistence mode:

Condition	Technology	
1	WLAN(2.4GHz) 1TX only	BT
2	WLAN(5GHz) 1TX only	BT

From above coexistence mode, radiated emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The EUT has two model names which are identical to each other in all aspects except for the following table:

Brand Name	Model No.	Description
AzureWave	AW-CB178NF(UART)	With UART interface
	AW-CB178NF	Without UART interface

From the model names, the radiated emission worst case was found in model No.: **AW-CB178NF**. Therefore only the test data of the mode was recorded in this report.



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

Set 1 Antenna											
Transmitter Circuit	Brand	Model	Ant. Gain (dBi) < Excluding cable loss >	Cable Loss (dB)		Net. Gain (dBi)	Frequency range (MHz to MHz)	Ant. Type	Connector Type	Cable Length (mm)	
				100 mm	180 mm						
Chain (0)	Microsoft	2118433-1	2.18	1	0.54	0.64	2400~2484	PCB	R-SMA	100+180	
			2.34	1.3	0.96	0.08	5150~5850				
Chain (1)	Microsoft	2118433-1	2.18	1	0.54	0.64	2400~2484	PCB	R-SMA	100+180	
			2.34	1.3	0.96	0.08	5150~5850				
Set 2 Antenna											
Transmitter Circuit	Brand	Model	Ant. Gain(dBi) <Including cable loss >	Frequency range (MHz to MHz)	Ant. Type	Connector Type	Cable Length (mm)				
Chain (0)	Walsin	RFPCA310715EMLB301	3.06	2400~2500	PIFA	mini - ipex	150				
			4.81	5150~5850							
Chain (1)	Walsin	RFPCA310715EMLB301	3.06	2400~2500	PIFA	mini - ipex	150				
			4.81	5150~5850							
Set 3 Antenna											
Transmitter Circuit	Brand	Model	Ant. Gain(dBi) <Including cable loss >	Frequency range (MHz to MHz)	Ant. Type	Connector Type	Cable Length (mm)				
Chain (0)	Wistron NeWeb Corporation	81EAAX15.G12	1.02	2400~2484	PIFA	mini - ipex	254				
			-1.03	5150~5850							
Chain (1)	Wistron NeWeb Corporation	81EAAX15.G12	1.02	2400~2484	PIFA	mini - ipex	563				
			-1.03	5150~5850							

Note: 1. From the above 1TX configuration mode, the worst case was found in transmission circuit on Chain (1).
 2. From the above antenna sets, **Set 1 Antenna** and **Set 2 Antenna** were selected as representative antenna for the test and its data was recorded in this report.

6. The EUT incorporates a MIMO function without Beamforming.

MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	1Tx (diversity)	1Rx (diversity)
		2TX(CDD)	2Rx
802.11b	1 ~ 11Mbps	1Tx (diversity)	1Rx (diversity)
		2TX(CDD)	2Rx
802.11g	6 ~ 54Mbps	1Tx (diversity)	1Rx (diversity)
		2TX(CDD)	2Rx
802.11n (HT20)	MCS 0~7	1Tx (diversity)	1Rx (diversity)
	MCS 8~15	2Tx	2Rx
802.11n (HT40)	MCS 0~7	1Tx (diversity)	1Rx (diversity)
	MCS 8~15	2Tx	2Rx
802.11ac (VHT20) (5GHz)	MCS0~8 Nss=1	1Tx (diversity)	1Rx (diversity)
	MCS0~8 Nss=2	2Tx	2Rx
802.11ac (VHT40) (5GHz)	MCS0~9 Nss=1	1Tx (diversity)	1Rx (diversity)
	MCS0~9) Nss=2	2Tx	2Rx
802.11ac (VHT80) (5GHz)	MCS0~9 Nss=1	1Tx (diversity)	1Rx (diversity)
	MCS0~9) Nss=2	2Tx	2Rx

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

7. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 5150 ~ 5350MHz band:

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY
38	5190 MHz
46	5230 MHz
54	5270 MHz
62	5310 MHz

2 channels are provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
42	5210 MHz
58	5290 MHz

Operated in 5470MHz ~ 5600MHz & 5650MHz ~ 5725MHz bands:

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY
102	5510 MHz
110	5550 MHz
134	5670 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
106	5530 MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
1	√	√	√	√	PIFA Ant. (Set 2 Ant.) (Model No.: AW-CB178NF)
2	-	√	√	-	PCB Ant. (Set 1 Ant.) (Model No.: AW-CB178NF)
	√	-	-	-	PIFA Ant. (Set 2 Ant.) (Model No.: AW-CB178NF(UART))

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

NOTE: 1. The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** (for below 1GHz) and **X-plane** (for above 1GHz).
2. The EUT's antenna (PCB) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** (for below 1GHz) and **X-plane** (for above 1GHz).

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (MBPS)
802.11a	36 to 140	60	OFDM	BPSK	6

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 140	60	OFDM	BPSK	6

**RADIATED EMISSION TEST (ABOVE 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATI ON TYPE	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6
802.11ac (VHT20)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	13
802.11ac (VHT40)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	BPSK	27
802.11ac (VHT80)	42 to 106	42, 58, 106	OFDM	BPSK	58.5

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATI ON TYPE	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6
802.11ac (VHT20)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	13
802.11ac (VHT40)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	BPSK	27
802.11ac (VHT80)	42 to 106	42, 58, 106	OFDM	BPSK	58.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	13deg. C, 65%RH	120Vac, 60Hz	Anderson Chen
RE<1G	24deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
	21deg. C, 63%RH	120Vac, 60Hz	Andy Ho
RE≥1G	22deg. C, 67%RH	120Vac, 60Hz	Garry Chen
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

789033 D01 General UNII Test Procedures Old Rules v01r04

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2009

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

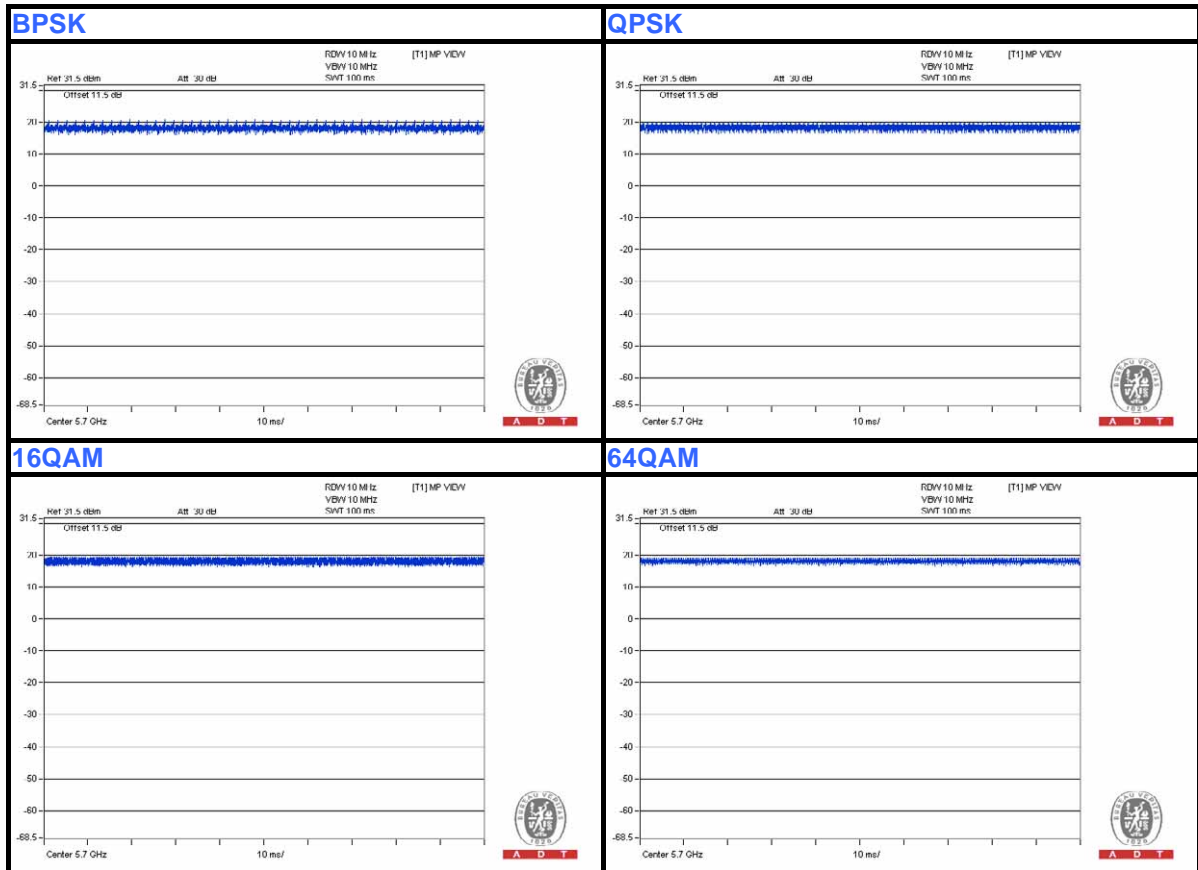


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3.4 DUTY CYCLE OF TEST SIGNAL

Duty cycle of test signal is 100 %, duty factor is not required.

802.11a

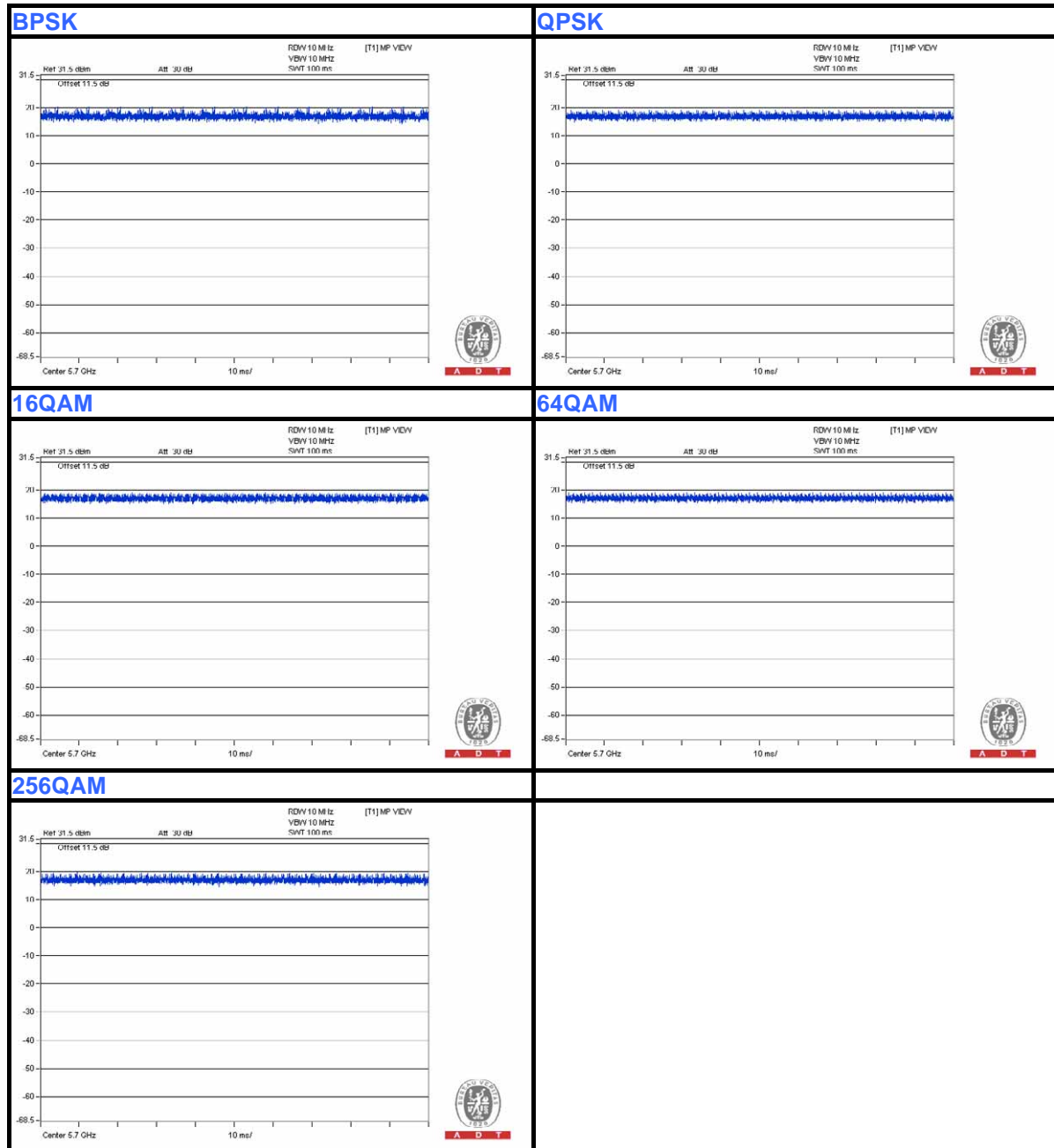




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Duty cycle of test signal is 100 %, duty factor is not required.

802.11ac (VHT20)

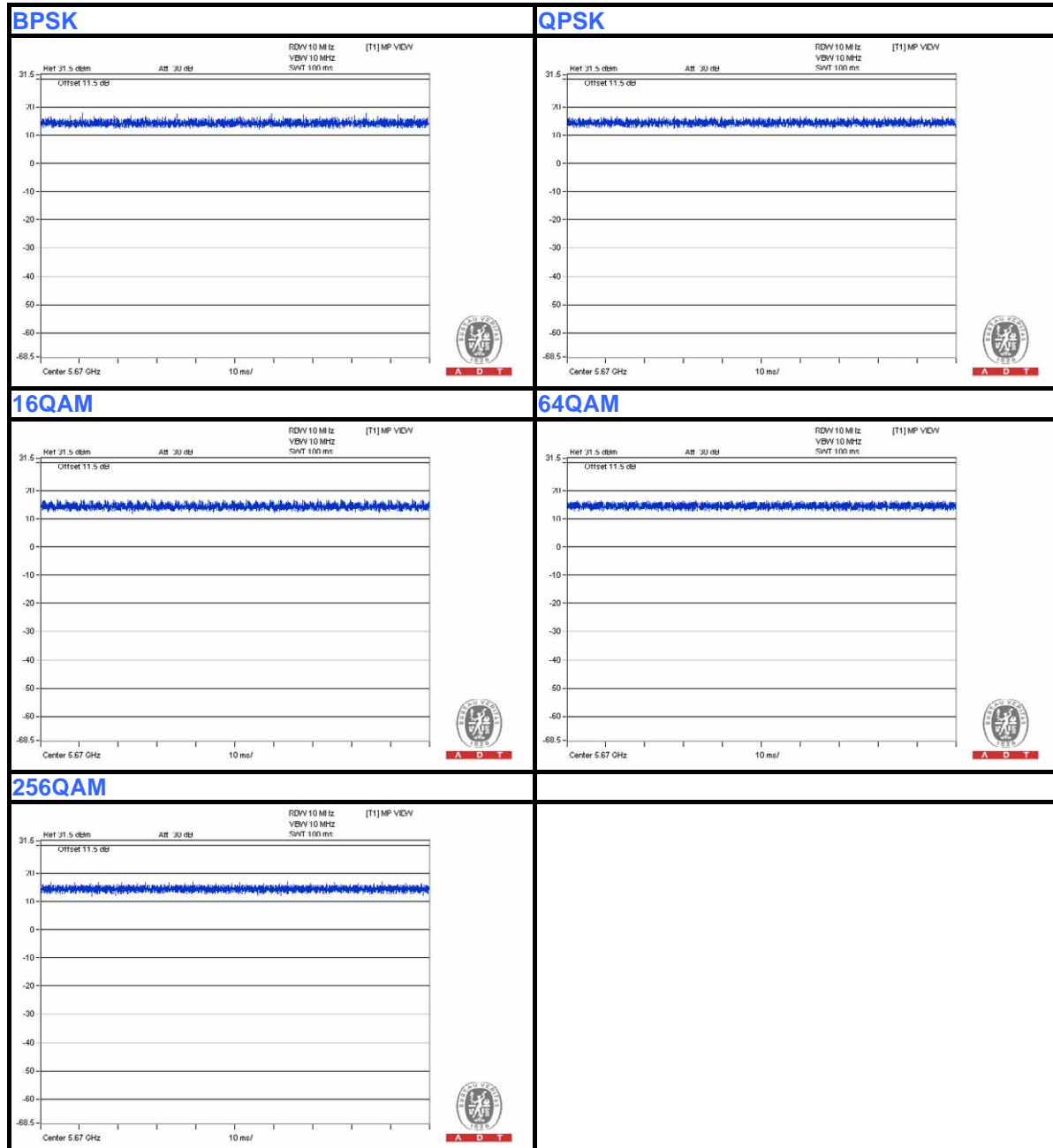




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Duty cycle of test signal is 100 %, duty factor is not required.

802.11ac (VHT40)

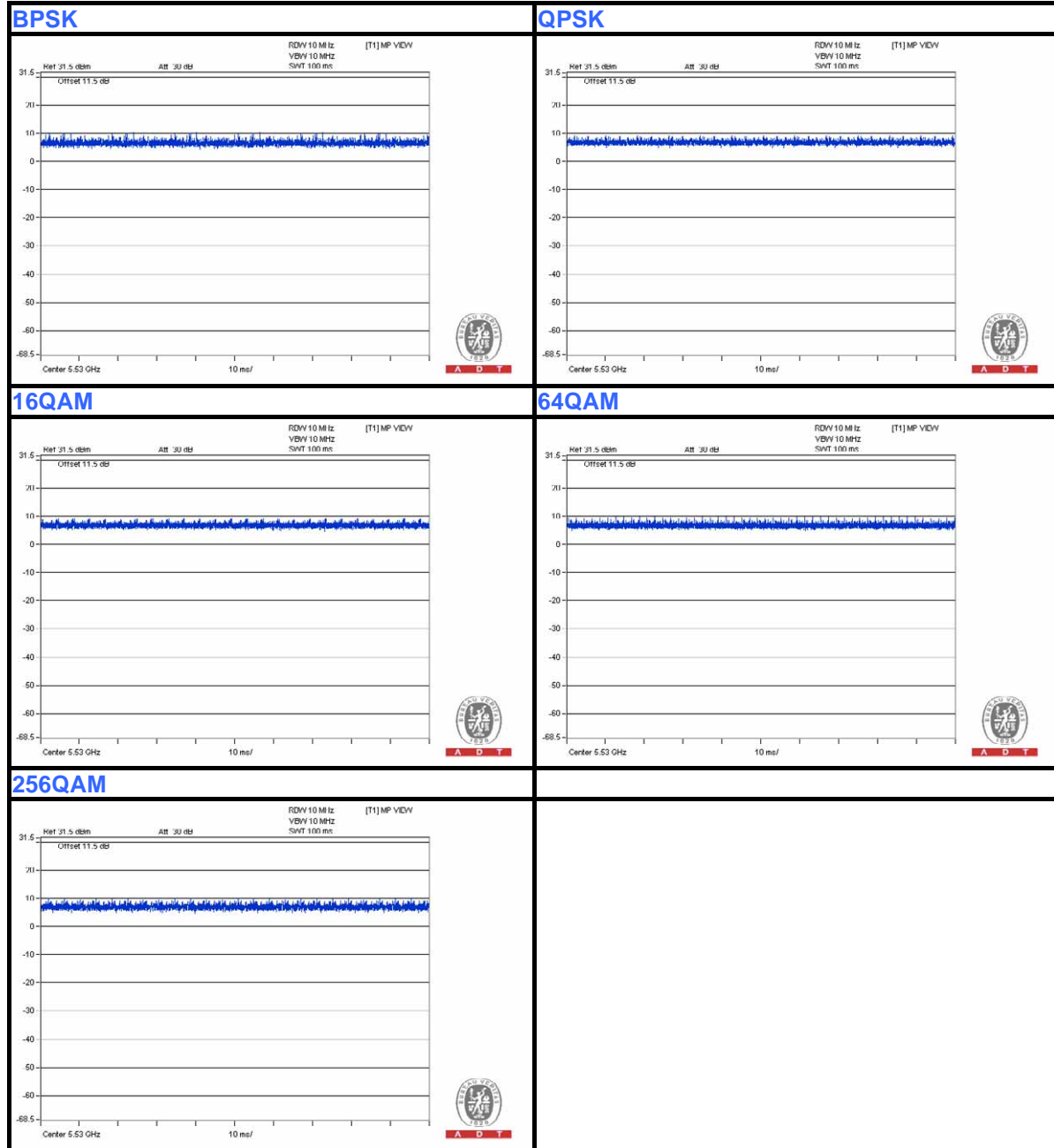




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Duty cycle of test signal is 100 %, duty factor is not required.

802.11ac (VHT80)





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3.5 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.

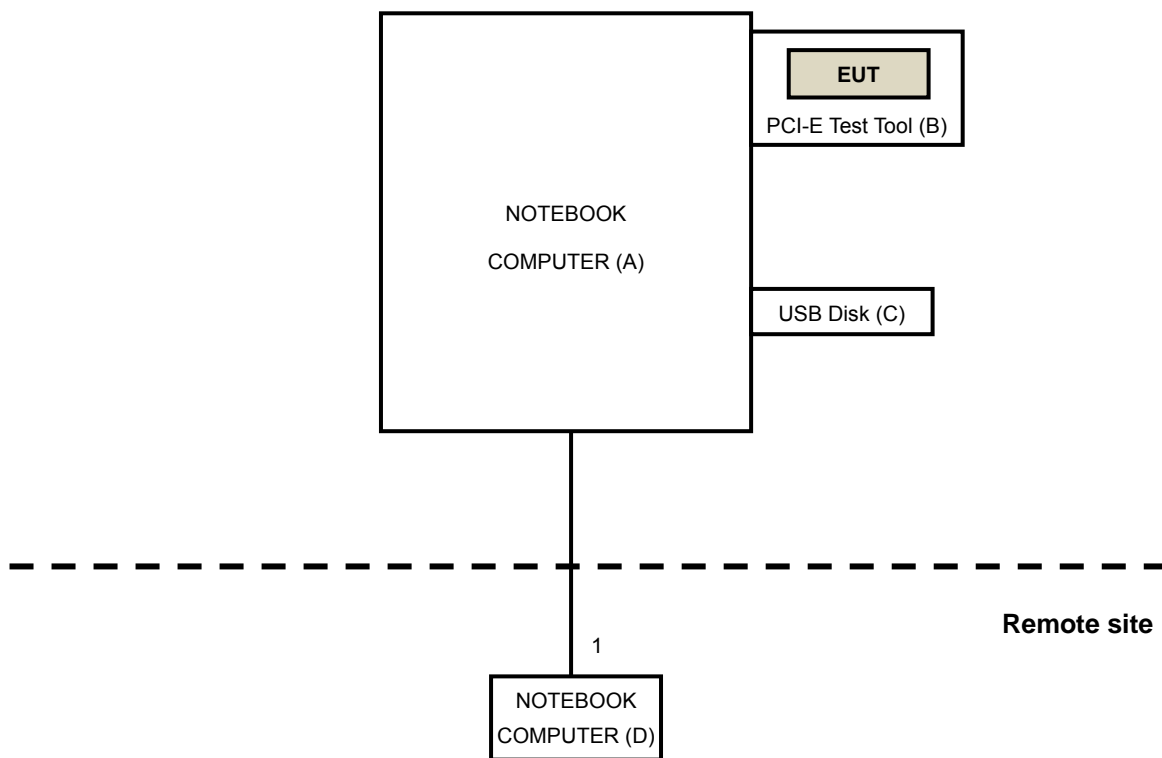
No.	Product	Brand	Model No.	Serial No.	FCC ID	Remark
A	NOTEBOOK COMPUTER	HP	EliteBook 8470p	AVB0000504	FCC DoC	Supplied by client
B	PCI-E Test Tool	AzureWave	NA	NA	NA	Supplied by client
C	USB Disk	Silicon Power	16G	NA	NA	Supplied by client
D	NOTEBOOK COMPUTER	DELL	PP32LA	DSL32S	FCC DoC	Provided by Lab

NOTE:

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

No.	Cable	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Number)	Remark
1	UTP	1	10	No	0	Provided by Lab

3.6 CONFIGURATION OF SYSTEM UNDER TEST





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4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver LIG NEX1	ER-265	L09068005	July 22, 2013	July 21, 2014
Pulse Limiter	VTSD 9561F	NA	NA	NA
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK8127	8127-522	Sep. 05, 2013	Sep. 04, 2014
Line-Impedance Stabilization Network (for Peripheral)	ENV216	100072	June 06, 2013	June 05, 2014
RF Cable (JYEBAO)	5DFB	COCCAB-001	Mar. 11, 2013	Mar. 10, 2014
50 ohms Terminator	50	EMC-03	Sep. 24, 2013	Sep. 23, 2014
Software ADT	BV ADT_Cond_V7.3.7. 3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Feb. 14, 2014

4.1.3 TEST PROCEDURES

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

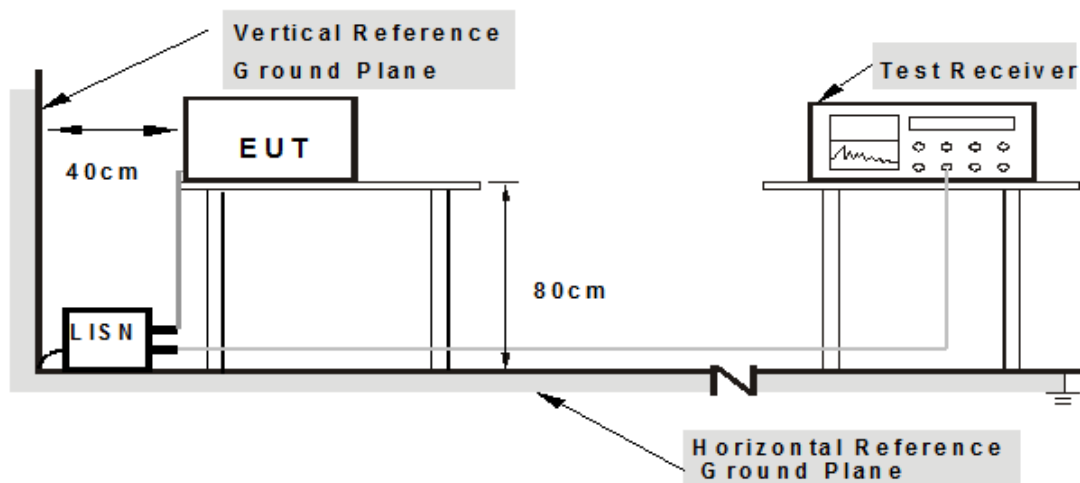
NOTE:

- The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Placed the EUT on testing table.
2. Controlling software “DutApiMimoBtFmBrdigeEth.exe[ver.2.0.0.43]” has been activated to set the EUT under transmission/receiving condition continuously.

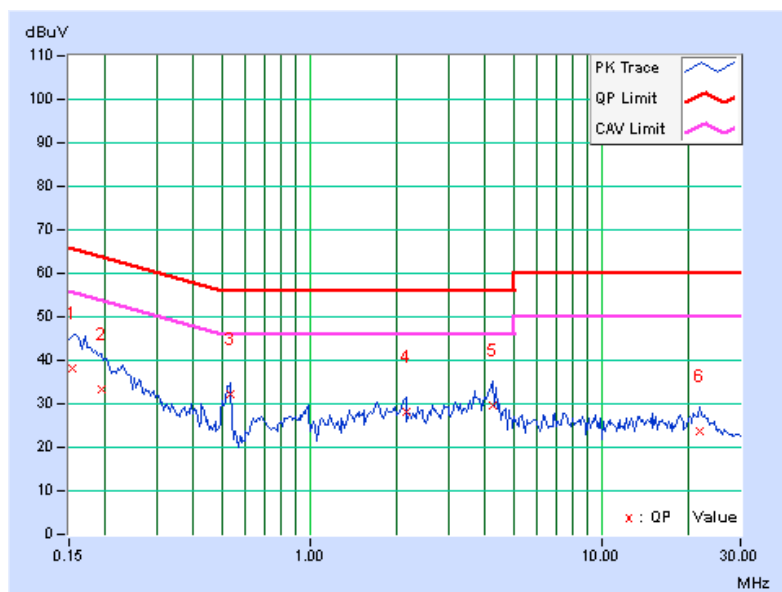
4.1.7 TEST RESULTS (MODE 1)

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.08	37.91	22.36	37.99	22.44	65.79	55.79	-27.79	-33.34
2	0.19297	0.10	33.19	20.83	33.29	20.93	63.91	53.91	-30.62	-32.98
3	0.53672	0.15	31.98	29.61	32.13	29.76	56.00	46.00	-23.87	-16.24
4	2.14063	0.21	27.95	24.02	28.16	24.23	56.00	46.00	-27.84	-21.77
5	4.24219	0.29	29.19	21.31	29.48	21.60	56.00	46.00	-26.52	-24.40
6	21.80469	0.76	23.11	18.36	23.87	19.12	60.00	50.00	-36.13	-30.88

REMARKS:

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

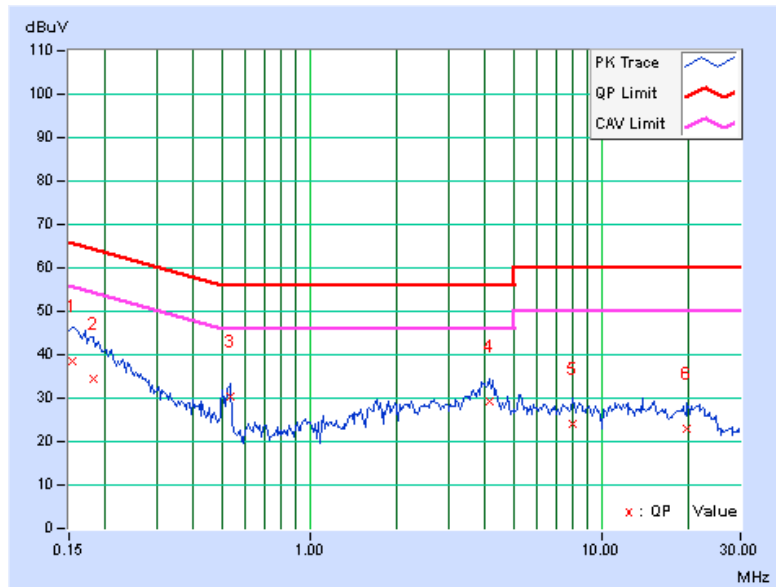


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.09	38.37	22.72	38.46	22.81	65.79	55.79	-27.33	-32.98
2	0.18125	0.10	34.46	20.16	34.56	20.26	64.43	54.43	-29.87	-34.17
3	0.53672	0.15	30.06	28.15	30.21	28.30	56.00	46.00	-25.79	-17.70
4	4.14844	0.28	29.06	22.84	29.34	23.12	56.00	46.00	-26.66	-22.88
5	7.98047	0.41	23.71	18.08	24.12	18.49	60.00	50.00	-35.88	-31.51
6	19.63672	0.69	22.19	16.70	22.88	17.39	60.00	50.00	-37.12	-32.61

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



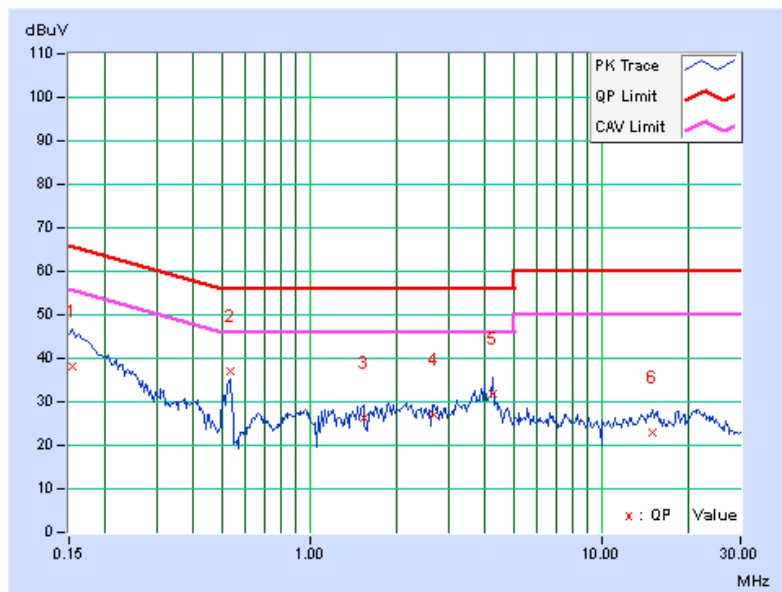
4.1.8 TEST RESULTS (MODE 2)

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.08	38.01	22.33	38.09	22.41	65.79	55.79	-27.69	-33.37
2	0.53281	0.15	36.79	31.77	36.94	31.92	56.00	46.00	-19.06	-14.08
3	1.53906	0.19	26.10	21.62	26.29	21.81	56.00	46.00	-29.71	-24.19
4	2.67188	0.23	26.97	21.18	27.20	21.41	56.00	46.00	-28.80	-24.59
5	4.25000	0.29	31.64	22.48	31.93	22.77	56.00	46.00	-24.07	-23.23
6	15.05078	0.62	22.28	17.78	22.90	18.40	60.00	50.00	-37.10	-31.60

REMARKS:

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

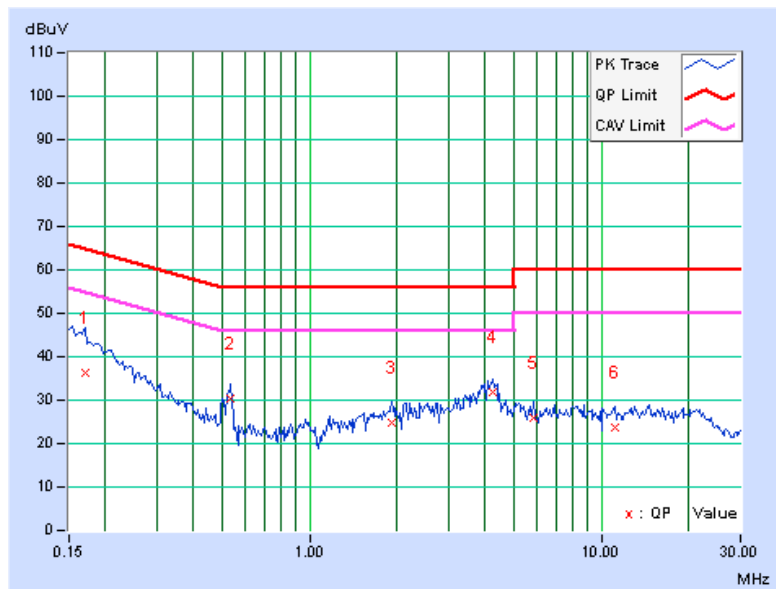


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.09	36.33	22.03	36.42	22.12	64.98	54.98	-28.56	-32.86
2	0.53672	0.15	30.31	29.21	30.46	29.36	56.00	46.00	-25.54	-16.64
3	1.92578	0.22	24.71	20.44	24.93	20.66	56.00	46.00	-31.07	-25.34
4	4.26172	0.29	31.50	22.21	31.79	22.50	56.00	46.00	-24.21	-23.50
5	5.84375	0.34	25.43	18.24	25.77	18.58	60.00	50.00	-34.23	-31.42
6	11.09375	0.50	23.24	17.75	23.74	18.25	60.00	50.00	-36.26	-31.75

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





4.2 RADIATED EMISSION AND BANDEGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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.

4.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

LIMIT	
FIELD STRENGTH AT 3m (dBµV/m)	
PK	AV
74	54
EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
PK	PK
-27	68.2

NOTE:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).$$



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4.2.3 TEST INSTRUMENTS

For Below 1GHz: (Mode 1)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Jan. 15, 2014	Jan. 14, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Mar. 25, 2013	Mar. 24, 2014
RF Cable	NA	CHHCAB_001	Oct. 06, 2013	Oct. 05, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000220091110	Dec. 06, 2013	Dec. 05, 2014
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 29, 2013	Oct. 28, 2014
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Feb. 20, 2014



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For Below 1GHz: (Mode 2)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 21,2014	Jan. 20,2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 05, 2013	Oct. 04, 2014
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 18, 2013	Nov. 17, 2014
Pre-Amplifier Agilent	8449B	3008A02578	June 24, 2014	June 23, 2015
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
- 5 The VCCI Site Registration No. is G-137.
- 6 The CANADA Site Registration No. is IC 7450H-2.
- 7 Tested Date: July 08, 2014



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For Above 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Aug. 11, 2014	Aug. 10, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 06, 2013	Oct. 05, 2014
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Horn_Antenna AISI	AIH.8018	0000220091110	Dec. 06, 2013	Dec. 05, 2014
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 29, 2013	Oct. 28, 2014
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Aug. 11, 2014

4.2.4 TEST PROCEDURES

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

Note:

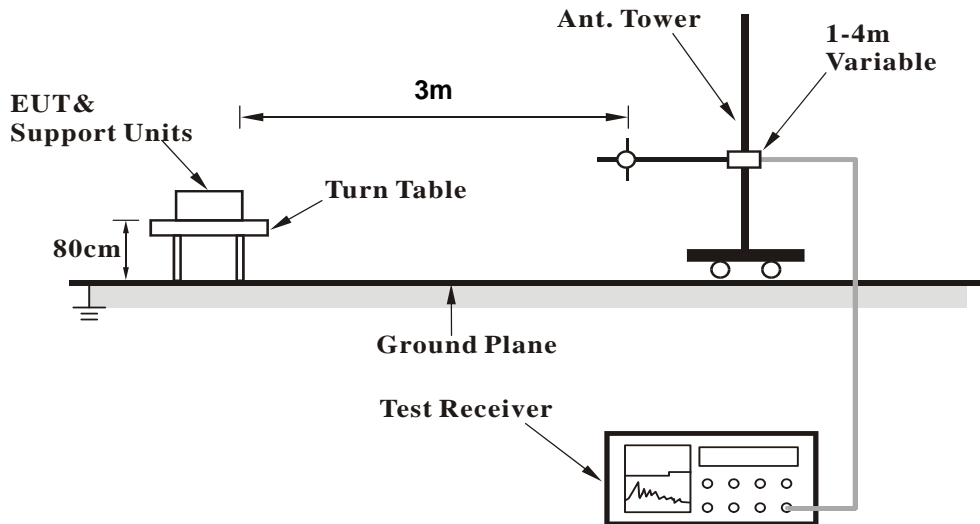
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.2.5 DEVIATION FROM TEST STANDARD

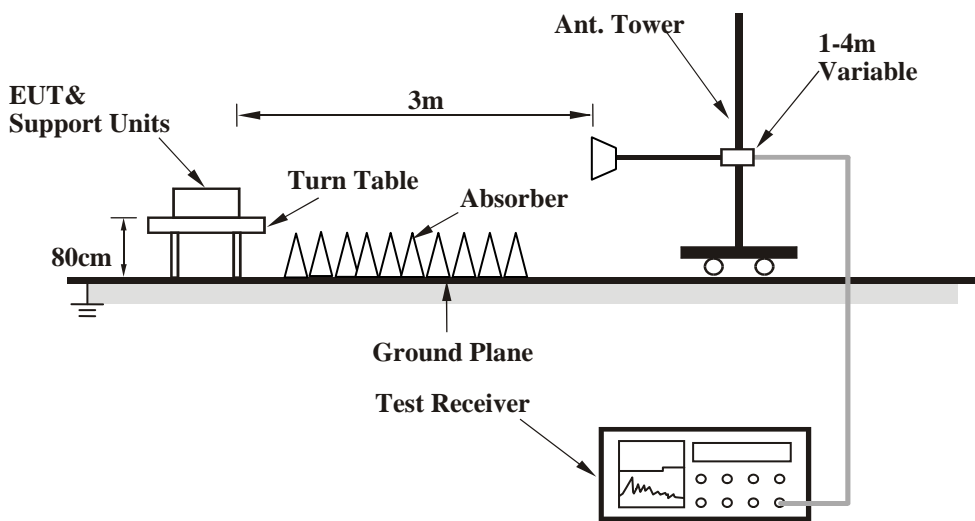
No deviation

4.2.6 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.7 EUT OPERATING CONDITION

Same as 4.1.6



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4.2.8 TEST RESULTS (MODE 1)

BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 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	170.85	34.1 QP	43.5	-9.4	1.75 H	245	47.13	-13.01
2	216.21	36.1 QP	46.0	-9.9	1.21 H	360	51.62	-15.48
3	548.67	37.7 QP	46.0	-8.4	1.74 H	214	43.79	-6.14
4	597.54	38.2 QP	46.0	-7.8	1.08 H	175	42.91	-4.70
5	699.84	35.7 QP	46.0	-10.4	1.75 H	63	38.78	-3.13
6	896.21	38.5 QP	46.0	-7.6	1.65 H	201	38.10	0.35

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	190.85	36.5 QP	43.5	-7.0	1.76 V	265	51.93	-15.46
2	300.04	34.9 QP	46.0	-11.2	1.15 V	312	46.53	-11.68
3	549.12	32.9 QP	46.0	-13.1	1.12 V	311	38.98	-6.12
4	599.84	36.7 QP	46.0	-9.3	1.24 V	278	41.32	-4.63
5	930.74	31.7 QP	46.0	-14.4	1.41 V	242	30.23	1.42
6	959.85	38.4 QP	46.0	-7.6	1.56 V	65	36.68	1.74

REMARKS:

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



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ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.9 PK	74.0	-2.1	1.79 H	290	67.62	4.28
2	5150.00	53.0 AV	54.0	-1.0	1.79 H	290	48.72	4.28
3	*5180.00	111.4 PK			1.79 H	290	107.01	4.39
4	*5180.00	101.6 AV			1.79 H	290	97.21	4.39
5	#10360.00	53.7 PK	74.0	-20.3	1.19 H	114	43.64	10.06
6	#10360.00	43.0 AV	54.0	-11.0	1.19 H	114	32.94	10.06
7	15540.00	58.9 PK	74.0	-15.1	1.45 H	310	44.06	14.84
8	15540.00	48.8 AV	54.0	-5.2	1.45 H	310	33.96	14.84

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	5150.00	66.8 PK	74.0	-7.2	1.04 V	91	62.52	4.28
2	5150.00	47.6 AV	54.0	-6.4	1.04 V	91	43.32	4.28
3	*5180.00	106.0 PK			1.04 V	91	101.61	4.39
4	*5180.00	96.4 AV			1.04 V	91	92.01	4.39
5	#10360.00	55.7 PK	74.0	-18.3	1.41 V	276	45.64	10.06
6	#10360.00	44.9 AV	54.0	-9.1	1.41 V	276	34.84	10.06
7	15540.00	59.8 PK	74.0	-14.2	1.07 V	113	44.96	14.84
8	15540.00	49.3 AV	54.0	-4.7	1.07 V	113	34.46	14.84

REMARKS:

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



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CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.79 H	290	50.82	4.28
2	5150.00	43.5 AV	54.0	-10.5	1.79 H	290	39.22	4.28
3	*5200.00	112.1 PK			1.79 H	290	107.66	4.44
4	*5200.00	102.6 AV			1.79 H	290	98.16	4.44
5	#10400.00	54.7 PK	74.0	-19.3	1.14 H	123	44.63	10.07
6	#10400.00	43.6 AV	54.0	-10.4	1.14 H	123	33.53	10.07
7	15600.00	59.5 PK	74.0	-14.5	1.44 H	326	44.44	15.06
8	15600.00	48.9 AV	54.0	-5.1	1.44 H	326	33.84	15.06

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	5127.40	52.8 PK	74.0	-21.2	1.03 V	91	48.59	4.21
2	5127.40	41.4 AV	54.0	-12.6	1.03 V	91	37.19	4.21
3	*5200.00	107.1 PK			1.03 V	91	102.66	4.44
4	*5200.00	97.4 AV			1.03 V	91	92.96	4.44
5	#10400.00	55.2 PK	74.0	-18.8	1.48 V	294	45.13	10.07
6	#10400.00	44.3 AV	54.0	-9.7	1.48 V	294	34.23	10.07
7	15600.00	60.3 PK	74.0	-13.7	1.01 V	107	45.24	15.06
8	15600.00	49.8 AV	54.0	-4.2	1.01 V	107	34.74	15.06

REMARKS:

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



A D T

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	112.1 PK			1.74 H	285	107.69	4.41
2	*5240.00	102.5 AV			1.74 H	285	98.09	4.41
3	#10480.00	54.6 PK	74.0	-19.4	1.22 H	116	44.34	10.26
4	#10480.00	43.6 AV	54.0	-10.4	1.22 H	116	33.34	10.26
5	15720.00	59.3 PK	74.0	-14.7	1.42 H	325	44.63	14.67
6	15720.00	48.7 AV	54.0	-5.3	1.42 H	325	34.03	14.67

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	*5240.00	107.2 PK			1.02 V	90	102.79	4.41
2	*5240.00	97.3 AV			1.02 V	90	92.89	4.41
3	#10480.00	55.8 PK	74.0	-18.2	1.43 V	273	45.54	10.26
4	#10480.00	44.6 AV	54.0	-9.4	1.43 V	273	34.34	10.26
5	15720.00	52.3 PK	74.0	-21.7	1.06 V	135	37.63	14.67
6	15720.00	41.2 AV	54.0	-12.8	1.06 V	135	26.53	14.67

REMARKS:

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



A D T

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	112.3 PK			1.81 H	293	107.91	4.39
2	*5260.00	102.6 AV			1.81 H	293	98.21	4.39
3	#10520.00	54.2 PK	74.0	-19.8	1.12 H	97	43.83	10.37
4	#10520.00	43.0 AV	54.0	-11.0	1.12 H	97	32.63	10.37
5	15780.00	59.3 PK	74.0	-14.7	1.48 H	312	44.58	14.72
6	15780.00	49.1 AV	54.0	-4.9	1.48 H	312	34.38	14.72

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	*5260.00	107.1 PK			1.02 V	92	102.71	4.39
2	*5260.00	97.5 AV			1.02 V	92	93.11	4.39
3	#10520.00	55.3 PK	74.0	-18.7	1.47 V	282	44.93	10.37
4	#10520.00	44.1 AV	54.0	-9.9	1.47 V	282	33.73	10.37
5	15780.00	60.0 PK	74.0	-14.0	1.00 V	109	45.28	14.72
6	15780.00	49.5 AV	54.0	-4.5	1.00 V	109	34.78	14.72

REMARKS:

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



A D T

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	111.6 PK			1.84 H	302	107.24	4.36
2	*5300.00	102.1 AV			1.84 H	302	97.74	4.36
3	5350.00	54.5 PK	74.0	-19.5	1.84 H	303	49.99	4.51
4	5350.00	42.0 AV	54.0	-12.0	1.84 H	303	37.49	4.51
5	10600.00	54.1 PK	74.0	-19.9	1.14 H	110	43.42	10.68
6	10600.00	43.5 AV	54.0	-10.5	1.14 H	110	32.82	10.68
7	15900.00	59.3 PK	74.0	-14.7	1.47 H	301	44.25	15.05
8	15900.00	49.0 AV	54.0	-5.0	1.47 H	301	33.95	15.05

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	*5300.00	106.0 PK			1.01 V	90	101.64	4.36
2	*5300.00	96.8 AV			1.01 V	90	92.44	4.36
3	5350.00	66.8 PK	74.0	-7.2	1.01 V	90	62.29	4.51
4	5350.00	40.3 AV	54.0	-13.7	1.01 V	90	35.79	4.51
5	10600.00	55.2 PK	74.0	-18.8	1.43 V	288	44.52	10.68
6	10600.00	43.8 AV	54.0	-10.2	1.43 V	288	33.12	10.68
7	15900.00	60.2 PK	74.0	-13.8	1.01 V	120	45.15	15.05
8	15900.00	49.9 AV	54.0	-4.1	1.01 V	120	34.85	15.05

REMARKS:

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



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CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	111.5 PK			1.75 H	292	107.08	4.42
2	*5320.00	101.9 AV			1.75 H	292	97.48	4.42
3	5350.00	72.3 PK	74.0	-1.7	1.75 H	292	67.79	4.51
4	5350.00	53.5 AV	54.0	-0.5	1.75 H	292	48.99	4.51
5	10640.00	53.9 PK	74.0	-20.1	1.19 H	106	43.27	10.63
6	10640.00	42.8 AV	54.0	-11.2	1.19 H	106	32.17	10.63
7	15960.00	59.5 PK	74.0	-14.5	1.42 H	321	44.53	14.97
8	15960.00	49.0 AV	54.0	-5.0	1.42 H	321	34.03	14.97

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	*5320.00	106.7 PK			1.02 V	75	102.28	4.42
2	*5320.00	96.9 AV			1.02 V	75	92.48	4.42
3	5350.00	67.0 PK	74.0	-7.0	1.02 V	75	62.49	4.51
4	5350.00	48.4 AV	54.0	-5.6	1.02 V	75	43.89	4.51
5	10640.00	55.1 PK	74.0	-18.9	1.49 V	293	44.47	10.63
6	10640.00	44.0 AV	54.0	-10.0	1.49 V	293	33.37	10.63
7	15960.00	59.6 PK	74.0	-14.4	1.00 V	117	44.63	14.97
8	15960.00	49.3 AV	54.0	-4.7	1.00 V	117	34.33	14.97

REMARKS:

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



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CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	1.69 H	294	57.58	4.62
2	5460.00	46.8 AV	54.0	-7.2	1.69 H	294	42.18	4.62
3	#5470.00	72.3 PK	74.0	-1.7	1.45 H	47	67.69	4.61
4	#5470.00	53.7 AV	54.0	-0.3	1.45 H	47	49.09	4.61
5	*5500.00	112.7 PK			1.69 H	294	108.11	4.59
6	*5500.00	103.8 AV			1.69 H	294	99.21	4.59
7	11000.00	53.7 PK	74.0	-20.3	1.11 H	122	42.85	10.85
8	11000.00	42.9 AV	54.0	-11.1	1.11 H	122	32.05	10.85
9	#16500.00	58.2 PK	74.0	-15.8	1.47 H	326	41.21	16.99
10	#16500.00	48.2 AV	54.0	-5.8	1.47 H	326	31.21	16.99

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	5460.00	57.2 PK	74.0	-16.8	1.01 V	79	52.58	4.62
2	5460.00	42.1 AV	54.0	-11.9	1.01 V	79	37.48	4.62
3	#5470.00	67.7 PK	74.0	-6.3	1.00 V	74	63.09	4.61
4	#5470.00	49.2 AV	54.0	-4.8	1.00 V	74	44.59	4.61
5	*5500.00	107.5 PK			1.01 V	76	102.91	4.59
6	*5500.00	98.7 AV			1.01 V	76	94.11	4.59
7	11000.00	55.4 PK	74.0	-18.6	1.44 V	290	44.55	10.85
8	11000.00	44.3 AV	54.0	-9.7	1.44 V	290	33.45	10.85
9	#16500.00	60.5 PK	74.0	-13.5	1.02 V	124	43.51	16.99
10	#16500.00	49.9 AV	54.0	-4.1	1.02 V	124	32.91	16.99

REMARKS:

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



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CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.9 PK	74.0	-19.1	1.68 H	292	50.29	4.61
2	#5470.00	41.1 AV	54.0	-12.9	1.68 H	292	36.49	4.61
3	*5580.00	115.1 PK			1.68 H	292	110.22	4.88
4	*5580.00	105.2 AV			1.68 H	292	100.32	4.88
5	11160.00	54.0 PK	74.0	-20.0	1.19 H	99	43.28	10.72
6	11160.00	43.1 AV	54.0	-10.9	1.19 H	99	32.38	10.72
7	#16740.00	59.3 PK	74.0	-14.7	1.40 H	311	41.42	17.88
8	#16740.00	48.9 AV	54.0	-5.1	1.40 H	311	31.02	17.88

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	#5470.00	51.4 PK	74.0	-22.6	1.05 V	80	46.79	4.61
2	#5470.00	40.3 AV	54.0	-13.7	1.05 V	80	35.69	4.61
3	*5580.00	110.2 PK			1.05 V	80	105.32	4.88
4	*5580.00	100.3 AV			1.05 V	80	95.42	4.88
5	11160.00	54.7 PK	74.0	-19.3	1.53 V	280	43.98	10.72
6	11160.00	43.7 AV	54.0	-10.3	1.53 V	280	32.98	10.72
7	#16740.00	60.5 PK	74.0	-13.5	1.00 V	118	42.62	17.88
8	#16740.00	49.7 AV	54.0	-4.3	1.00 V	118	31.82	17.88

REMARKS:

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



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	110.5 PK			1.68 H	290	105.57	4.93
2	*5660.00	103.2 AV			1.68 H	290	98.27	4.93
3	11320.00	54.0 PK	74.0	-20.0	1.15 H	108	43.19	10.81
4	11320.00	42.8 AV	54.0	-11.2	1.15 H	108	31.99	10.81
5	#16980.00	59.0 PK	74.0	-15.0	1.49 H	328	40.66	18.34
6	#16980.00	48.9 AV	54.0	-5.1	1.49 H	328	30.56	18.34

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	*5660.00	106.0 PK			1.00 V	78	101.07	4.93
2	*5660.00	98.7 AV			1.00 V	78	93.77	4.93
3	11320.00	55.3 PK	74.0	-18.7	1.56 V	285	44.49	10.81
4	11320.00	44.1 AV	54.0	-9.9	1.56 V	285	33.29	10.81
5	#16980.00	60.6 PK	74.0	-13.4	1.00 V	106	42.26	18.34
6	#16980.00	49.7 AV	54.0	-4.3	1.00 V	106	31.36	18.34

REMARKS:

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



A D T

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.8 PK			1.67 H	291	103.89	4.91
2	*5700.00	100.1 AV			1.67 H	291	95.19	4.91
3	#5725.00	73.0 PK	74.0	-1.0	1.67 H	291	68.07	4.93
4	#5725.00	48.9 AV	54.0	-5.1	1.67 H	291	43.97	4.93
5	11400.00	54.2 PK	74.0	-19.8	1.10 H	97	43.57	10.63
6	11400.00	43.5 AV	54.0	-10.5	1.10 H	97	32.87	10.63
7	#17100.00	59.6 PK	74.0	-14.4	1.42 H	320	41.05	18.55
8	#17100.00	49.1 AV	54.0	-4.9	1.42 H	320	30.55	18.55

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	*5700.00	103.5 PK			1.02 V	74	98.59	4.91
2	*5700.00	94.7 AV			1.02 V	74	89.79	4.91
3	#5725.00	67.6 PK	74.0	-6.4	1.02 V	74	62.67	4.93
4	#5725.00	43.6 AV	54.0	-10.4	1.02 V	74	38.67	4.93
5	11400.00	55.0 PK	74.0	-19.0	1.53 V	277	44.37	10.63
6	11400.00	44.1 AV	54.0	-9.9	1.53 V	277	33.47	10.63
7	#17100.00	60.9 PK	74.0	-13.1	1.00 V	106	42.35	18.55
8	#17100.00	49.9 AV	54.0	-4.1	1.00 V	106	31.35	18.55

REMARKS:

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



A D T

802.11ac (VHT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.5 PK	74.0	-10.5	1.00 H	340	59.22	4.28
2	5150.00	53.5 AV	54.0	-0.5	1.00 H	340	49.22	4.28
3	*5180.00	106.1 PK			1.00 H	340	101.71	4.39
4	*5180.00	97.2 AV			1.00 H	340	92.81	4.39
5	#10360.00	54.1 PK	74.0	-19.9	1.14 H	108	44.04	10.06
6	#10360.00	43.2 AV	54.0	-10.8	1.14 H	108	33.14	10.06
7	15540.00	58.4 PK	74.0	-15.6	1.48 H	313	43.56	14.84
8	15540.00	48.3 AV	54.0	-5.7	1.48 H	313	33.46	14.84

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	5150.00	58.8 PK	74.0	-15.2	1.10 V	70	54.52	4.28
2	5150.00	48.8 AV	54.0	-5.2	1.10 V	70	44.52	4.28
3	*5180.00	101.2 PK			1.10 V	70	96.81	4.39
4	*5180.00	92.5 AV			1.10 V	70	88.11	4.39
5	#10360.00	55.1 PK	74.0	-18.9	1.51 V	267	45.04	10.06
6	#10360.00	44.4 AV	54.0	-9.6	1.51 V	267	34.34	10.06
7	15540.00	60.8 PK	74.0	-13.2	1.00 V	92	45.96	14.84
8	15540.00	49.7 AV	54.0	-4.3	1.00 V	92	34.86	14.84

REMARKS:

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



A D T

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	1.10 H	340	55.02	4.28
2	5150.00	48.8 AV	54.0	-5.2	1.10 H	340	44.52	4.28
3	*5200.00	108.4 PK			1.10 H	340	103.96	4.44
4	*5200.00	99.8 AV			1.10 H	340	95.36	4.44
5	#10400.00	54.4 PK	74.0	-19.6	1.19 H	111	44.33	10.07
6	#10400.00	43.3 AV	54.0	-10.7	1.19 H	111	33.23	10.07
7	15600.00	58.7 PK	74.0	-15.3	1.43 H	313	43.64	15.06
8	15600.00	48.6 AV	54.0	-5.4	1.43 H	313	33.54	15.06

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	5150.00	67.1 PK	74.0	-6.9	1.08 V	74	62.82	4.28
2	5150.00	40.5 AV	54.0	-13.5	1.08 V	74	36.22	4.28
3	*5200.00	102.8 PK			1.08 V	74	98.36	4.44
4	*5200.00	94.5 AV			1.08 V	74	90.06	4.44
5	#10400.00	54.8 PK	74.0	-19.2	1.51 V	282	44.73	10.07
6	#10400.00	44.1 AV	54.0	-9.9	1.51 V	282	34.03	10.07
7	15600.00	60.4 PK	74.0	-13.6	1.00 V	81	45.34	15.06
8	15600.00	49.3 AV	54.0	-4.7	1.00 V	81	34.24	15.06

REMARKS:

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



A D T

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.1 PK			1.02 H	340	104.69	4.41
2	*5240.00	100.1 AV			1.02 H	340	95.69	4.41
3	#10480.00	53.9 PK	74.0	-20.1	1.19 H	100	43.64	10.26
4	#10480.00	43.0 AV	54.0	-11.0	1.19 H	100	32.74	10.26
5	15720.00	58.5 PK	74.0	-15.5	1.49 H	316	43.83	14.67
6	15720.00	48.6 AV	54.0	-5.4	1.49 H	316	33.93	14.67

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	*5240.00	104.1 PK			1.09 V	75	99.69	4.41
2	*5240.00	95.3 AV			1.09 V	75	90.89	4.41
3	#10480.00	54.5 PK	74.0	-19.5	1.55 V	277	44.24	10.26
4	#10480.00	44.1 AV	54.0	-9.9	1.55 V	277	33.84	10.26
5	15720.00	59.9 PK	74.0	-14.1	1.00 V	71	45.23	14.67
6	15720.00	49.1 AV	54.0	-4.9	1.00 V	71	34.43	14.67

REMARKS:

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



A D T

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	109.4 PK			1.03 H	342	105.01	4.39
2	*5260.00	100.2 AV			1.03 H	342	95.81	4.39
3	#10520.00	54.8 PK	74.0	-19.2	1.16 H	121	44.43	10.37
4	#10520.00	43.5 AV	54.0	-10.5	1.16 H	121	33.13	10.37
5	15780.00	59.0 PK	74.0	-15.0	1.44 H	319	44.28	14.72
6	15780.00	49.0 AV	54.0	-5.0	1.44 H	319	34.28	14.72

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	*5260.00	104.1 PK			1.08 V	75	99.71	4.39
2	*5260.00	95.0 AV			1.08 V	75	90.61	4.39
3	#10520.00	54.8 PK	74.0	-19.2	1.50 V	297	44.43	10.37
4	#10520.00	44.4 AV	54.0	-9.6	1.50 V	297	34.03	10.37
5	15780.00	60.9 PK	74.0	-13.1	1.00 V	75	46.18	14.72
6	15780.00	49.6 AV	54.0	-4.4	1.00 V	75	34.88	14.72

REMARKS:

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



A D T

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	110.3 PK			1.08 H	343	105.94	4.36
2	*5300.00	99.8 AV			1.08 H	343	95.44	4.36
3	10600.00	54.3 PK	74.0	-19.7	1.22 H	107	43.62	10.68
4	10600.00	42.9 AV	54.0	-11.1	1.22 H	107	32.22	10.68
5	15900.00	59.0 PK	74.0	-15.0	1.37 H	297	43.95	15.05
6	15900.00	48.7 AV	54.0	-5.3	1.37 H	297	33.65	15.05

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	*5300.00	104.9 PK			1.10 V	75	100.54	4.36
2	*5300.00	94.6 AV			1.10 V	75	90.24	4.36
3	10600.00	54.6 PK	74.0	-19.4	1.47 V	280	43.92	10.68
4	10600.00	43.7 AV	54.0	-10.3	1.47 V	280	33.02	10.68
5	15900.00	60.3 PK	74.0	-13.7	1.00 V	95	45.25	15.05
6	15900.00	49.1 AV	54.0	-4.9	1.00 V	95	34.05	15.05

REMARKS:

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



A D T

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.2 PK			1.00 H	345	102.78	4.42
2	*5320.00	97.9 AV			1.00 H	345	93.48	4.42
3	5350.00	69.2 PK	74.0	-4.8	1.00 H	345	64.69	4.51
4	5350.00	53.0 AV	54.0	-1.0	1.00 H	345	48.49	4.51
5	10640.00	54.7 PK	74.0	-19.3	1.18 H	117	44.07	10.63
6	10640.00	43.7 AV	54.0	-10.3	1.18 H	117	33.07	10.63
7	15960.00	58.2 PK	74.0	-15.8	1.43 H	300	43.23	14.97
8	15960.00	48.3 AV	54.0	-5.7	1.43 H	300	33.33	14.97

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	*5320.00	105.3 PK			1.06 V	256	100.88	4.42
2	*5320.00	95.2 AV			1.06 V	256	90.78	4.42
3	5350.00	63.7 PK	74.0	-10.3	1.06 V	256	59.19	4.51
4	5350.00	47.6 AV	54.0	-6.4	1.06 V	256	43.09	4.51
5	10640.00	54.8 PK	74.0	-19.2	1.56 V	277	44.17	10.63
6	10640.00	44.3 AV	54.0	-9.7	1.56 V	277	33.67	10.63
7	15960.00	60.4 PK	74.0	-13.6	1.04 V	94	45.43	14.97
8	15960.00	49.3 AV	54.0	-4.7	1.04 V	94	34.33	14.97

REMARKS:

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



A D T

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	1.04 H	333	54.78	4.62
2	5460.00	43.2 AV	54.0	-10.8	1.04 H	333	38.58	4.62
3	#5470.00	69.9 PK	74.0	-4.1	1.04 H	333	65.29	4.61
4	#5470.00	52.9 AV	54.0	-1.1	1.04 H	333	48.29	4.61
5	*5500.00	107.8 PK			1.04 H	333	103.21	4.59
6	*5500.00	99.2 AV			1.04 H	333	94.61	4.59
7	11000.00	54.6 PK	74.0	-19.4	1.17 H	108	43.75	10.85
8	11000.00	43.6 AV	54.0	-10.4	1.17 H	108	32.75	10.85
9	#16500.00	58.1 PK	74.0	-15.9	1.43 H	311	41.11	16.99
10	#16500.00	48.2 AV	54.0	-5.8	1.43 H	311	31.21	16.99

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	5460.00	54.1 PK	74.0	-19.9	1.06 V	250	49.48	4.62
2	5460.00	38.2 AV	54.0	-15.8	1.06 V	250	33.58	4.62
3	#5470.00	64.6 PK	74.0	-9.4	1.06 V	250	59.99	4.61
4	#5470.00	47.7 AV	54.0	-6.3	1.06 V	250	43.09	4.61
5	*5500.00	102.2 PK			1.06 V	250	97.61	4.59
6	*5500.00	93.8 AV			1.06 V	250	89.21	4.59
7	11000.00	54.6 PK	74.0	-19.4	1.49 V	268	43.75	10.85
8	11000.00	43.8 AV	54.0	-10.2	1.49 V	268	32.95	10.85
9	#16500.00	60.7 PK	74.0	-13.3	1.01 V	74	43.71	16.99
10	#16500.00	49.7 AV	54.0	-4.3	1.01 V	74	32.71	16.99

REMARKS:

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



A D T

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	107.9 PK			1.03 H	336	103.02	4.88
2	*5580.00	99.1 AV			1.03 H	336	94.22	4.88
3	11160.00	54.6 PK	74.0	-19.4	1.24 H	123	43.88	10.72
4	11160.00	43.4 AV	54.0	-10.6	1.24 H	123	32.68	10.72
5	#16740.00	59.3 PK	74.0	-14.7	1.38 H	310	41.42	17.88
6	#16740.00	49.0 AV	54.0	-5.0	1.38 H	310	31.12	17.88

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	*5580.00	102.5 PK			1.10 V	251	97.62	4.88
2	*5580.00	93.6 AV			1.10 V	251	88.72	4.88
3	11160.00	54.9 PK	74.0	-19.1	1.50 V	283	44.18	10.72
4	11160.00	44.0 AV	54.0	-10.0	1.50 V	283	33.28	10.72
5	#16740.00	60.5 PK	74.0	-13.5	1.04 V	84	42.62	17.88
6	#16740.00	49.6 AV	54.0	-4.4	1.04 V	84	31.72	17.88

REMARKS:

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



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	108.5 PK			1.02 H	313	103.57	4.93
2	*5660.00	99.5 AV			1.02 H	313	94.57	4.93
3	#5725.00	60.2 PK	74.0	-13.8	1.02 H	313	55.27	4.93
4	#5725.00	50.1 AV	54.0	-3.9	1.02 H	313	45.17	4.93
5	11320.00	54.3 PK	74.0	-19.7	1.20 H	112	43.49	10.81
6	11320.00	43.4 AV	54.0	-10.6	1.20 H	112	32.59	10.81
7	#16980.00	58.9 PK	74.0	-15.1	1.38 H	319	40.56	18.34
8	#16980.00	48.7 AV	54.0	-5.3	1.38 H	319	30.36	18.34

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	*5660.00	104.0 PK			1.05 V	250	99.07	4.93
2	*5660.00	94.8 AV			1.05 V	250	89.87	4.93
3	#5725.00	64.3 PK	74.0	-9.7	1.05 V	250	59.37	4.93
4	#5725.00	44.5 AV	54.0	-9.5	1.05 V	250	39.57	4.93
5	11320.00	54.2 PK	74.0	-19.8	1.55 V	277	43.39	10.81
6	11320.00	43.7 AV	54.0	-10.3	1.55 V	277	32.89	10.81
7	#16980.00	60.9 PK	74.0	-13.1	1.02 V	91	42.56	18.34
8	#16980.00	49.8 AV	54.0	-4.2	1.02 V	91	31.46	18.34

REMARKS:

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



A D T

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.2 PK			1.01 H	346	102.29	4.91
2	*5700.00	97.7 AV			1.01 H	346	92.79	4.91
3	#5725.00	70.7 PK	74.0	-3.3	1.01 H	346	65.77	4.93
4	#5725.00	53.2 AV	54.0	-0.8	1.01 H	346	48.27	4.93
5	11400.00	54.2 PK	74.0	-19.8	1.19 H	119	43.57	10.63
6	11400.00	43.0 AV	54.0	-11.0	1.19 H	119	32.37	10.63
7	#17100.00	58.1 PK	74.0	-15.9	1.47 H	321	39.55	18.55
8	#17100.00	48.1 AV	54.0	-5.9	1.47 H	321	29.55	18.55

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	*5700.00	102.6 PK			1.04 V	251	97.69	4.91
2	*5700.00	93.1 AV			1.04 V	251	88.19	4.91
3	#5725.00	65.9 PK	74.0	-8.1	1.04 V	251	60.97	4.93
4	#5725.00	48.5 AV	54.0	-5.5	1.04 V	251	43.57	4.93
5	11400.00	55.3 PK	74.0	-18.7	1.54 V	285	44.67	10.63
6	11400.00	44.3 AV	54.0	-9.7	1.54 V	285	33.67	10.63
7	#17100.00	60.3 PK	74.0	-13.7	1.01 V	65	41.75	18.55
8	#17100.00	49.4 AV	54.0	-4.6	1.01 V	65	30.85	18.55

REMARKS:

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



A D T

802.11ac (VHT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.00 H	337	63.82	4.28
2	5150.00	53.2 AV	54.0	-0.8	1.00 H	337	48.92	4.28
3	*5190.00	102.4 PK			1.00 H	337	97.99	4.41
4	*5190.00	92.9 AV			1.00 H	337	88.49	4.41
5	#10380.00	54.1 PK	74.0	-19.9	1.22 H	99	44.03	10.07
6	#10380.00	43.0 AV	54.0	-11.0	1.22 H	99	32.93	10.07
7	15570.00	58.5 PK	74.0	-15.5	1.46 H	313	43.55	14.95
8	15570.00	48.2 AV	54.0	-5.8	1.46 H	313	33.25	14.95

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	5150.00	62.9 PK	74.0	-11.1	1.04 V	250	58.62	4.28
2	5150.00	48.0 AV	54.0	-6.0	1.04 V	250	43.72	4.28
3	*5190.00	97.1 PK			1.04 V	250	92.69	4.41
4	*5190.00	87.7 AV			1.04 V	250	83.29	4.41
5	#10380.00	55.0 PK	74.0	-19.0	1.46 V	267	44.93	10.07
6	#10380.00	44.4 AV	54.0	-9.6	1.46 V	267	34.33	10.07
7	15570.00	60.0 PK	74.0	-14.0	1.00 V	93	45.05	14.95
8	15570.00	48.8 AV	54.0	-5.2	1.00 V	93	33.85	14.95

REMARKS:

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



A D T

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.10 H	39	62.52	4.28
2	5150.00	51.3 AV	54.0	-2.7	1.10 H	39	47.02	4.28
3	*5230.00	105.9 PK			1.00 H	339	101.48	4.42
4	*5230.00	96.4 AV			1.00 H	339	91.98	4.42
5	#10460.00	54.5 PK	74.0	-19.5	1.13 H	115	44.29	10.21
6	#10460.00	43.6 AV	54.0	-10.4	1.13 H	115	33.39	10.21
7	15690.00	58.7 PK	74.0	-15.3	1.42 H	305	44.02	14.68
8	15690.00	48.7 AV	54.0	-5.3	1.42 H	305	34.02	14.68

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	5150.00	61.8 PK	74.0	-12.2	1.02 V	248	57.52	4.28
2	5150.00	46.3 AV	54.0	-7.7	1.02 V	248	42.02	4.28
3	*5230.00	100.9 PK			1.02 V	248	96.48	4.42
4	*5230.00	91.6 AV			1.02 V	248	87.18	4.42
5	#10460.00	55.0 PK	74.0	-19.0	1.56 V	290	44.79	10.21
6	#10460.00	44.3 AV	54.0	-9.7	1.56 V	290	34.09	10.21
7	15690.00	59.9 PK	74.0	-14.1	1.02 V	74	45.22	14.68
8	15690.00	48.9 AV	54.0	-5.1	1.02 V	74	34.22	14.68

REMARKS:

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



A D T

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	105.4 PK			1.02 H	315	101.02	4.38
2	*5270.00	96.1 AV			1.02 H	315	91.72	4.38
3	5350.00	67.4 PK	74.0	-6.6	1.02 H	315	62.89	4.51
4	5350.00	52.3 AV	54.0	-1.7	1.02 H	315	47.79	4.51
5	#10540.00	53.9 PK	74.0	-20.1	1.15 H	126	43.45	10.45
6	#10540.00	42.9 AV	54.0	-11.1	1.15 H	126	32.45	10.45
7	15810.00	58.5 PK	74.0	-15.5	1.43 H	313	43.72	14.78
8	15810.00	48.1 AV	54.0	-5.9	1.43 H	313	33.32	14.78

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	*5270.00	100.4 PK			1.10 V	247	96.02	4.38
2	*5270.00	91.3 AV			1.10 V	247	86.92	4.38
3	5350.00	63.4 PK	74.0	-10.6	1.10 V	247	58.89	4.51
4	5350.00	48.2 AV	54.0	-5.8	1.10 V	247	43.69	4.51
5	#10540.00	54.8 PK	74.0	-19.2	1.52 V	283	44.35	10.45
6	#10540.00	44.0 AV	54.0	-10.0	1.52 V	283	33.55	10.45
7	15810.00	60.0 PK	74.0	-14.0	1.04 V	67	45.22	14.78
8	15810.00	48.9 AV	54.0	-5.1	1.04 V	67	34.12	14.78

REMARKS:

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



A D T

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.0 PK			1.00 H	336	98.61	4.39
2	*5310.00	95.0 AV			1.00 H	336	90.61	4.39
3	5350.00	67.5 PK	74.0	-6.5	1.00 H	336	62.99	4.51
4	5350.00	53.5 AV	54.0	-0.5	1.00 H	336	48.99	4.51
5	10620.00	54.3 PK	74.0	-19.7	1.22 H	115	43.65	10.65
6	10620.00	43.4 AV	54.0	-10.6	1.22 H	115	32.75	10.65
7	15930.00	58.6 PK	74.0	-15.4	1.49 H	311	43.59	15.01
8	15930.00	48.4 AV	54.0	-5.6	1.49 H	311	33.39	15.01

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	*5310.00	97.7 PK			1.08 V	246	93.31	4.39
2	*5310.00	90.0 AV			1.08 V	246	85.61	4.39
3	5350.00	62.0 PK	74.0	-12.0	1.08 V	246	57.49	4.51
4	5350.00	48.1 AV	54.0	-5.9	1.08 V	246	43.59	4.51
5	10620.00	54.4 PK	74.0	-19.6	1.54 V	296	43.75	10.65
6	10620.00	43.9 AV	54.0	-10.1	1.54 V	296	33.25	10.65
7	15930.00	60.3 PK	74.0	-13.7	1.00 V	85	45.29	15.01
8	15930.00	49.2 AV	54.0	-4.8	1.00 V	85	34.19	15.01

REMARKS:

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



A D T

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	1.04 H	333	56.58	4.62
2	5460.00	46.4 AV	54.0	-7.6	1.04 H	333	41.78	4.62
3	#5470.00	68.4 PK	74.0	-5.6	1.04 H	333	63.79	4.61
4	#5470.00	53.0 AV	54.0	-1.0	1.04 H	333	48.39	4.61
5	*5510.00	100.2 PK			1.04 H	333	95.57	4.63
6	*5510.00	91.2 AV			1.04 H	333	86.57	4.63
7	11020.00	55.0 PK	74.0	-19.0	1.18 H	102	44.18	10.82
8	11020.00	43.7 AV	54.0	-10.3	1.18 H	102	32.88	10.82
9	#16530.00	58.7 PK	74.0	-15.3	1.38 H	300	41.66	17.04
10	#16530.00	48.7 AV	54.0	-5.3	1.38 H	300	31.66	17.04

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	5460.00	56.2 PK	74.0	-17.8	1.10 V	250	51.58	4.62
2	5460.00	41.6 AV	54.0	-12.4	1.10 V	250	36.98	4.62
3	#5470.00	63.6 PK	74.0	-10.4	1.10 V	250	58.99	4.61
4	#5470.00	48.2 AV	54.0	-5.8	1.10 V	250	43.59	4.61
5	*5510.00	95.6 PK			1.10 V	250	90.97	4.63
6	*5510.00	86.5 AV			1.10 V	250	81.87	4.63
7	11020.00	55.0 PK	74.0	-19.0	1.53 V	267	44.18	10.82
8	11020.00	44.4 AV	54.0	-9.6	1.53 V	267	33.58	10.82
9	#16530.00	60.6 PK	74.0	-13.4	1.00 V	84	43.56	17.04
10	#16530.00	49.8 AV	54.0	-4.2	1.00 V	84	32.76	17.04

REMARKS:

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



A D T

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.8 PK	74.0	-6.2	1.03 H	353	63.19	4.61
2	#5470.00	50.7 AV	54.0	-3.3	1.03 H	353	46.09	4.61
3	*5550.00	106.6 PK			1.03 H	353	101.83	4.77
4	*5550.00	97.2 AV			1.03 H	353	92.43	4.77
5	11100.00	54.2 PK	74.0	-19.8	1.15 H	121	43.51	10.69
6	11100.00	43.2 AV	54.0	-10.8	1.15 H	121	32.51	10.69
7	#16650.00	59.0 PK	74.0	-15.0	1.44 H	329	41.59	17.41
8	#16650.00	49.0 AV	54.0	-5.0	1.44 H	329	31.59	17.41

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	#5470.00	62.4 PK	74.0	-11.6	1.07 V	259	57.79	4.61
2	#5470.00	45.6 AV	54.0	-8.4	1.07 V	259	40.99	4.61
3	*5550.00	101.7 PK			1.07 V	259	96.93	4.77
4	*5550.00	92.3 AV			1.07 V	259	87.53	4.77
5	11100.00	54.8 PK	74.0	-19.2	1.56 V	276	44.11	10.69
6	11100.00	44.3 AV	54.0	-9.7	1.56 V	276	33.61	10.69
7	#16650.00	60.4 PK	74.0	-13.6	1.04 V	94	42.99	17.41
8	#16650.00	49.2 AV	54.0	-4.8	1.04 V	94	31.79	17.41

REMARKS:

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



A D T

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.9 PK			1.02 H	348	98.97	4.93
2	*5670.00	94.9 AV			1.02 H	348	89.97	4.93
3	#5725.00	69.5 PK	74.0	-4.5	1.02 H	348	64.57	4.93
4	#5725.00	53.0 AV	54.0	-1.0	1.02 H	348	48.07	4.93
5	11340.00	54.5 PK	74.0	-19.5	1.13 H	97	43.74	10.76
6	11340.00	43.3 AV	54.0	-10.7	1.13 H	97	32.54	10.76
7	#17010.00	58.6 PK	74.0	-15.4	1.43 H	302	40.23	18.37
8	#17010.00	48.4 AV	54.0	-5.6	1.43 H	302	30.03	18.37

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	*5670.00	98.7 PK			1.09 V	255	93.77	4.93
2	*5670.00	90.0 AV			1.09 V	255	85.07	4.93
3	#5725.00	64.3 PK	74.0	-9.7	1.09 V	255	59.37	4.93
4	#5725.00	48.0 AV	54.0	-6.0	1.09 V	255	43.07	4.93
5	11340.00	55.2 PK	74.0	-18.8	1.53 V	291	44.44	10.76
6	11340.00	44.5 AV	54.0	-9.5	1.53 V	291	33.74	10.76
7	#17010.00	60.8 PK	74.0	-13.2	1.00 V	82	42.43	18.37
8	#17010.00	49.7 AV	54.0	-4.3	1.00 V	82	31.33	18.37

REMARKS:

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



A D T

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.6 PK	74.0	-3.4	1.00 H	337	66.32	4.28
2	5150.00	53.8 AV	54.0	-0.2	1.00 H	337	49.52	4.28
3	*5210.00	98.6 PK			1.00 H	337	94.17	4.43
4	*5210.00	88.4 AV			1.00 H	337	83.97	4.43
5	#10420.00	54.7 PK	74.0	-19.3	1.18 H	100	44.59	10.11
6	#10420.00	43.7 AV	54.0	-10.3	1.18 H	100	33.59	10.11
7	15630.00	59.1 PK	74.0	-14.9	1.39 H	315	44.16	14.94
8	15630.00	48.8 AV	54.0	-5.2	1.39 H	315	33.86	14.94

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	5150.00	65.8 PK	74.0	-8.2	1.10 V	254	61.52	4.28
2	5150.00	49.0 AV	54.0	-5.0	1.10 V	254	44.72	4.28
3	*5210.00	93.7 PK			1.10 V	254	89.27	4.43
4	*5210.00	83.3 AV			1.10 V	254	78.87	4.43
5	#10420.00	54.4 PK	74.0	-19.6	1.51 V	292	44.29	10.11
6	#10420.00	43.7 AV	54.0	-10.3	1.51 V	292	33.59	10.11
7	15630.00	60.6 PK	74.0	-13.4	1.01 V	89	45.66	14.94
8	15630.00	49.6 AV	54.0	-4.4	1.01 V	89	34.66	14.94

REMARKS:

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



A D T

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	98.9 PK			1.00 H	337	94.53	4.37
2	*5290.00	89.2 AV			1.00 H	337	84.83	4.37
3	5367.70	69.1 PK	74.0	-4.9	1.00 H	337	64.54	4.56
4	5367.70	53.3 AV	54.0	-0.7	1.00 H	337	48.74	4.56
5	#10580.00	54.1 PK	74.0	-19.9	1.22 H	100	43.49	10.61
6	#10580.00	43.1 AV	54.0	-10.9	1.22 H	100	32.49	10.61
7	15870.00	59.2 PK	74.0	-14.8	1.46 H	308	44.24	14.96
8	15870.00	49.0 AV	54.0	-5.0	1.46 H	308	34.04	14.96

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	*5290.00	94.1 PK			1.11 V	248	89.73	4.37
2	*5290.00	84.5 AV			1.11 V	248	80.13	4.37
3	5367.70	63.7 PK	74.0	-10.3	1.11 V	248	59.14	4.56
4	5367.70	48.0 AV	54.0	-6.0	1.11 V	248	43.44	4.56
5	#10580.00	54.6 PK	74.0	-19.4	1.52 V	268	43.99	10.61
6	#10580.00	44.2 AV	54.0	-9.8	1.52 V	268	33.59	10.61
7	15870.00	60.9 PK	74.0	-13.1	1.00 V	68	45.94	14.96
8	15870.00	49.5 AV	54.0	-4.5	1.00 V	68	34.54	14.96

REMARKS:

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



A D T

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5456.00	69.4 PK	74.0	-4.6	1.03 H	358	64.77	4.63
2	5456.00	53.0 AV	54.0	-1.0	1.03 H	358	48.37	4.63
3	*5530.00	97.6 PK			1.03 H	358	92.90	4.70
4	*5530.00	88.0 AV			1.03 H	358	83.30	4.70
5	11060.00	54.0 PK	74.0	-20.0	1.25 H	125	43.25	10.75
6	11060.00	42.9 AV	54.0	-11.1	1.25 H	125	32.15	10.75
7	#16590.00	58.5 PK	74.0	-15.5	1.44 H	299	41.34	17.16
8	#16590.00	48.3 AV	54.0	-5.7	1.44 H	299	31.14	17.16

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	5456.00	64.4 PK	74.0	-9.6	1.08 V	250	59.77	4.63
2	5456.00	47.7 AV	54.0	-6.3	1.08 V	250	43.07	4.63
3	*5530.00	92.6 PK			1.08 V	250	87.90	4.70
4	*5530.00	82.8 AV			1.08 V	250	78.10	4.70
5	11060.00	54.5 PK	74.0	-19.5	1.50 V	267	43.75	10.75
6	11060.00	43.8 AV	54.0	-10.2	1.50 V	267	33.05	10.75
7	#16590.00	60.7 PK	74.0	-13.3	1.00 V	85	43.54	17.16
8	#16590.00	49.4 AV	54.0	-4.6	1.00 V	85	32.24	17.16

REMARKS:

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



A D T

4.2.9 TEST RESULTS (MODE 2)

BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 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	93.00	37.9 QP	43.5	-5.6	1.50 H	189	56.73	-18.87
2	165.99	33.9 QP	43.5	-9.6	1.00 H	106	47.38	-13.49
3	199.22	34.8 QP	43.5	-8.7	1.06 H	223	51.11	-16.30
4	232.39	38.4 QP	46.0	-7.6	1.00 H	246	53.93	-15.57
5	497.93	38.9 QP	46.0	-7.1	1.50 H	203	46.29	-7.35
6	796.59	38.8 QP	46.0	-7.2	1.00 H	265	40.22	-1.40

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	35.53	31.3 QP	40.0	-8.7	1.00 V	310	45.61	-14.29
2	165.99	33.4 QP	43.5	-10.1	1.33 V	169	46.90	-13.49
3	232.39	35.6 QP	46.0	-10.4	1.34 V	225	51.13	-15.57
4	626.45	36.9 QP	46.0	-9.1	1.16 V	287	41.30	-4.38
5	699.01	38.0 QP	46.0	-8.0	1.00 V	236	41.51	-3.52
6	899.75	38.9 QP	46.0	-7.1	2.00 V	143	38.88	0.06

REMARKS:

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



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ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	73.0 PK	74.0	-1.0	1.14 H	158	68.72	4.28
2	5150.00	51.0 AV	54.0	-3.0	1.14 H	158	46.72	4.28
3	*5180.00	111.4 PK			1.14 H	158	107.01	4.39
4	*5180.00	101.3 AV			1.14 H	158	96.91	4.39
5	#10360.00	53.8 PK	74.0	-20.2	1.08 H	210	43.74	10.06
6	#10360.00	43.5 AV	54.0	-10.5	1.08 H	210	33.44	10.06
7	15540.00	57.3 PK	74.0	-16.7	1.24 H	154	42.46	14.84
8	15540.00	47.8 AV	54.0	-6.2	1.24 H	154	32.96	14.84

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	5150.00	69.8 PK	74.0	-4.2	1.00 V	98	65.52	4.28
2	5150.00	51.3 AV	54.0	-2.7	1.00 V	98	47.02	4.28
3	*5180.00	107.2 PK			1.00 V	98	102.81	4.39
4	*5180.00	96.9 AV			1.00 V	98	92.51	4.39
5	#10360.00	54.3 PK	74.0	-19.7	1.19 V	187	44.24	10.06
6	#10360.00	43.8 AV	54.0	-10.2	1.19 V	187	33.74	10.06
7	15540.00	58.6 PK	74.0	-15.4	1.07 V	212	43.76	14.84
8	15540.00	48.3 AV	54.0	-5.7	1.07 V	212	33.46	14.84

REMARKS:

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



A D T

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.7 PK			1.51 H	67	108.26	4.44
2	*5200.00	103.7 AV			1.51 H	67	99.26	4.44
3	#10400.00	54.0 PK	74.0	-20.0	1.09 H	214	43.93	10.07
4	#10400.00	43.6 AV	54.0	-10.4	1.09 H	214	33.53	10.07
5	15600.00	57.9 PK	74.0	-16.1	1.20 H	168	42.84	15.06
6	15600.00	48.2 AV	54.0	-5.8	1.20 H	168	33.14	15.06

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	*5200.00	109.2 PK			1.03 V	84	104.76	4.44
2	*5200.00	100.0 AV			1.03 V	84	95.56	4.44
3	#10400.00	54.3 PK	74.0	-19.7	1.18 V	190	44.23	10.07
4	#10400.00	43.6 AV	54.0	-10.4	1.18 V	190	33.53	10.07
5	15600.00	59.3 PK	74.0	-14.7	1.11 V	201	44.24	15.06
6	15600.00	48.8 AV	54.0	-5.2	1.11 V	201	33.74	15.06

REMARKS:

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



A D T

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	112.1 PK			1.52 H	70	107.69	4.41
2	*5240.00	103.2 AV			1.52 H	70	98.79	4.41
3	#10480.00	54.2 PK	74.0	-19.8	1.14 H	208	43.94	10.26
4	#10480.00	44.0 AV	54.0	-10.0	1.14 H	208	33.74	10.26
5	15720.00	57.7 PK	74.0	-16.3	1.17 H	173	43.03	14.67
6	15720.00	47.9 AV	54.0	-6.1	1.17 H	173	33.23	14.67

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	*5240.00	107.8 PK			1.42 V	82	103.39	4.41
2	*5240.00	98.9 AV			1.42 V	82	94.49	4.41
3	#10480.00	54.7 PK	74.0	-19.3	1.15 V	180	44.44	10.26
4	#10480.00	43.9 AV	54.0	-10.1	1.15 V	180	33.64	10.26
5	15720.00	59.5 PK	74.0	-14.5	1.10 V	208	44.83	14.67
6	15720.00	49.2 AV	54.0	-4.8	1.10 V	208	34.53	14.67

REMARKS:

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



A D T

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	112.9 PK			1.49 H	78	108.51	4.39
2	*5260.00	103.9 AV			1.49 H	78	99.51	4.39
3	#10520.00	54.1 PK	74.0	-19.9	1.09 H	206	43.73	10.37
4	#10520.00	43.9 AV	54.0	-10.1	1.09 H	206	33.53	10.37
5	15780.00	58.2 PK	74.0	-15.8	1.25 H	168	43.48	14.72
6	15780.00	48.4 AV	54.0	-5.6	1.25 H	168	33.68	14.72

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	*5260.00	108.8 PK			1.37 V	81	104.41	4.39
2	*5260.00	99.7 AV			1.37 V	81	95.31	4.39
3	#10520.00	53.9 PK	74.0	-20.1	1.20 V	195	43.53	10.37
4	#10520.00	43.3 AV	54.0	-10.7	1.20 V	195	32.93	10.37
5	15780.00	59.4 PK	74.0	-14.6	1.17 V	216	44.68	14.72
6	15780.00	48.6 AV	54.0	-5.4	1.17 V	216	33.88	14.72

REMARKS:

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



A D T

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.1 PK			1.52 H	72	107.74	4.36
2	*5300.00	103.4 AV			1.52 H	72	99.04	4.36
3	10600.00	53.6 PK	74.0	-20.4	1.11 H	228	42.92	10.68
4	10600.00	43.4 AV	54.0	-10.6	1.11 H	228	32.72	10.68
5	15900.00	57.6 PK	74.0	-16.4	1.14 H	181	42.55	15.05
6	15900.00	48.0 AV	54.0	-6.0	1.14 H	181	32.95	15.05

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	*5300.00	107.7 PK			1.45 V	68	103.34	4.36
2	*5300.00	99.0 AV			1.45 V	68	94.64	4.36
3	10600.00	54.3 PK	74.0	-19.7	1.17 V	196	43.62	10.68
4	10600.00	43.4 AV	54.0	-10.6	1.17 V	196	32.72	10.68
5	15900.00	59.5 PK	74.0	-14.5	1.08 V	193	44.45	15.05
6	15900.00	49.2 AV	54.0	-4.8	1.08 V	193	34.15	15.05

REMARKS:

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



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CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.2 PK			1.50 H	64	105.78	4.42
2	*5320.00	100.8 AV			1.50 H	64	96.38	4.42
3	5350.00	72.8 PK	74.0	-1.2	1.50 H	64	68.29	4.51
4	5350.00	53.0 AV	54.0	-1.0	1.50 H	64	48.49	4.51
5	10640.00	53.0 PK	74.0	-21.0	1.07 H	215	42.37	10.63
6	10640.00	43.1 AV	54.0	-10.9	1.07 H	215	32.47	10.63
7	15960.00	57.4 PK	74.0	-16.6	1.16 H	194	42.43	14.97
8	15960.00	48.0 AV	54.0	-6.0	1.16 H	194	33.03	14.97

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	*5320.00	106.5 PK			1.48 V	95	102.08	4.42
2	*5320.00	96.9 AV			1.48 V	95	92.48	4.42
3	5350.00	69.4 PK	74.0	-4.6	1.48 V	95	64.89	4.51
4	5350.00	49.3 AV	54.0	-4.7	1.48 V	95	44.79	4.51
5	10640.00	54.8 PK	74.0	-19.2	1.12 V	188	44.17	10.63
6	10640.00	43.8 AV	54.0	-10.2	1.12 V	188	33.17	10.63
7	15960.00	58.9 PK	74.0	-15.1	1.17 V	214	43.93	14.97
8	15960.00	48.7 AV	54.0	-5.3	1.17 V	214	33.73	14.97

REMARKS:

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



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CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	72.6 PK	74.0	-1.4	1.45 H	63	67.99	4.61
2	#5470.00	53.1 AV	54.0	-0.9	1.45 H	63	48.49	4.61
3	*5500.00	111.4 PK			1.45 H	63	106.81	4.59
4	*5500.00	101.8 AV			1.45 H	63	97.21	4.59
5	11000.00	53.9 PK	74.0	-20.1	1.09 H	229	43.05	10.85
6	11000.00	43.9 AV	54.0	-10.1	1.09 H	229	33.05	10.85
7	#16500.00	57.9 PK	74.0	-16.1	1.11 H	168	40.91	16.99
8	#16500.00	48.4 AV	54.0	-5.6	1.11 H	168	31.41	16.99

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	#5470.00	69.0 PK	74.0	-5.0	1.47 V	88	64.39	4.61
2	#5470.00	49.4 AV	54.0	-4.6	1.47 V	88	44.79	4.61
3	*5500.00	107.6 PK			1.47 V	88	103.01	4.59
4	*5500.00	98.0 AV			1.47 V	88	93.41	4.59
5	11000.00	54.7 PK	74.0	-19.3	1.12 V	177	43.85	10.85
6	11000.00	43.8 AV	54.0	-10.2	1.12 V	177	32.95	10.85
7	#16500.00	59.0 PK	74.0	-15.0	1.07 V	211	42.01	16.99
8	#16500.00	48.3 AV	54.0	-5.7	1.07 V	211	31.31	16.99

REMARKS:

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



A D T

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	112.1 PK			1.54 H	55	107.22	4.88
2	*5580.00	103.3 AV			1.54 H	55	98.42	4.88
3	11160.00	53.9 PK	74.0	-20.1	1.15 H	212	43.18	10.72
4	11160.00	43.6 AV	54.0	-10.4	1.15 H	212	32.88	10.72
5	#16740.00	57.8 PK	74.0	-16.2	1.14 H	192	39.92	17.88
6	#16740.00	48.0 AV	54.0	-6.0	1.14 H	192	30.12	17.88

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	*5580.00	107.9 PK			1.47 V	89	103.02	4.88
2	*5580.00	99.3 AV			1.47 V	89	94.42	4.88
3	11160.00	54.1 PK	74.0	-19.9	1.14 V	201	43.38	10.72
4	11160.00	43.1 AV	54.0	-10.9	1.14 V	201	32.38	10.72
5	#16740.00	58.9 PK	74.0	-15.1	1.12 V	203	41.02	17.88
6	#16740.00	48.3 AV	54.0	-5.7	1.12 V	203	30.42	17.88

REMARKS:

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



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	112.6 PK			1.55 H	53	107.67	4.93
2	*5660.00	103.8 AV			1.55 H	53	98.87	4.93
3	11320.00	53.1 PK	74.0	-20.9	1.10 H	230	42.29	10.81
4	11320.00	43.2 AV	54.0	-10.8	1.10 H	230	32.39	10.81
5	#16980.00	57.4 PK	74.0	-16.6	1.18 H	175	39.06	18.34
6	#16980.00	47.6 AV	54.0	-6.4	1.18 H	175	29.26	18.34

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	*5660.00	108.6 PK			1.44 V	86	103.67	4.93
2	*5660.00	99.8 AV			1.44 V	86	94.87	4.93
3	11320.00	54.2 PK	74.0	-19.8	1.21 V	186	43.39	10.81
4	11320.00	43.6 AV	54.0	-10.4	1.21 V	186	32.79	10.81
5	#16980.00	59.3 PK	74.0	-14.7	1.08 V	210	40.96	18.34
6	#16980.00	48.6 AV	54.0	-5.4	1.08 V	210	30.26	18.34

REMARKS:

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



A D T

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.9 PK			1.41 H	165	104.99	4.91
2	*5700.00	100.3 AV			1.41 H	165	95.39	4.91
3	#5725.00	73.2 PK	74.0	-0.8	1.41 H	165	68.27	4.93
4	#5725.00	53.8 AV	54.0	-0.2	1.41 H	165	48.87	4.93
5	11400.00	53.5 PK	74.0	-20.5	1.15 H	214	42.87	10.63
6	11400.00	43.5 AV	54.0	-10.5	1.15 H	214	32.87	10.63
7	#17100.00	57.4 PK	74.0	-16.6	1.18 H	183	38.85	18.55
8	#17100.00	47.6 AV	54.0	-6.4	1.18 H	183	29.05	18.55

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	*5700.00	106.0 PK			1.40 V	73	101.09	4.91
2	*5700.00	96.6 AV			1.40 V	73	91.69	4.91
3	#5725.00	69.4 PK	74.0	-4.6	1.40 V	73	64.47	4.93
4	#5725.00	50.1 AV	54.0	-3.9	1.40 V	73	45.17	4.93
5	11400.00	54.7 PK	74.0	-19.3	1.19 V	189	44.07	10.63
6	11400.00	43.8 AV	54.0	-10.2	1.19 V	189	33.17	10.63
7	#17100.00	58.9 PK	74.0	-15.1	1.09 V	212	40.35	18.55
8	#17100.00	48.3 AV	54.0	-5.7	1.09 V	212	29.75	18.55

REMARKS:

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



A D T

802.11ac (VHT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	73.3 PK	74.0	-0.7	1.51 H	67	69.02	4.28
2	5150.00	51.4 AV	54.0	-2.6	1.51 H	67	47.12	4.28
3	*5180.00	110.9 PK			1.51 H	67	106.51	4.39
4	*5180.00	101.6 AV			1.51 H	67	97.21	4.39
5	#10360.00	53.5 PK	74.0	-20.5	1.10 H	220	43.44	10.06
6	#10360.00	43.0 AV	54.0	-11.0	1.10 H	220	32.94	10.06
7	15540.00	58.0 PK	74.0	-16.0	1.09 H	188	43.16	14.84
8	15540.00	48.2 AV	54.0	-5.8	1.09 H	188	33.36	14.84

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	5150.00	69.3 PK	74.0	-4.7	1.45 V	88	65.02	4.28
2	5150.00	47.2 AV	54.0	-6.8	1.45 V	88	42.92	4.28
3	*5180.00	107.4 PK			1.45 V	88	103.01	4.39
4	*5180.00	97.9 AV			1.45 V	88	93.51	4.39
5	#10360.00	53.8 PK	74.0	-20.2	1.21 V	175	43.74	10.06
6	#10360.00	43.1 AV	54.0	-10.9	1.21 V	175	33.04	10.06
7	15540.00	59.4 PK	74.0	-14.6	1.06 V	200	44.56	14.84
8	15540.00	48.9 AV	54.0	-5.1	1.06 V	200	34.06	14.84

REMARKS:

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



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CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	114.0 PK			1.83 H	77	109.56	4.44
2	*5200.00	103.2 AV			1.83 H	77	98.76	4.44
3	#10400.00	53.8 PK	74.0	-20.2	1.08 H	236	43.73	10.07
4	#10400.00	43.7 AV	54.0	-10.3	1.08 H	236	33.63	10.07
5	15600.00	57.8 PK	74.0	-16.2	1.18 H	194	42.74	15.06
6	15600.00	48.4 AV	54.0	-5.6	1.18 H	194	33.34	15.06

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	*5200.00	109.3 PK			1.46 V	74	104.86	4.44
2	*5200.00	98.7 AV			1.46 V	74	94.26	4.44
3	#10400.00	54.7 PK	74.0	-19.3	1.13 V	199	44.63	10.07
4	#10400.00	44.0 AV	54.0	-10.0	1.13 V	199	33.93	10.07
5	15600.00	59.3 PK	74.0	-14.7	1.07 V	192	44.24	15.06
6	15600.00	48.8 AV	54.0	-5.2	1.07 V	192	33.74	15.06

REMARKS:

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



A D T

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.7 PK			1.83 H	73	109.29	4.41
2	*5240.00	102.8 AV			1.83 H	73	98.39	4.41
3	#10480.00	54.0 PK	74.0	-20.0	1.10 H	244	43.74	10.26
4	#10480.00	43.8 AV	54.0	-10.2	1.10 H	244	33.54	10.26
5	15720.00	57.8 PK	74.0	-16.2	1.09 H	169	43.13	14.67
6	15720.00	48.1 AV	54.0	-5.9	1.09 H	169	33.43	14.67

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	*5240.00	109.6 PK			1.42 V	69	105.19	4.41
2	*5240.00	98.8 AV			1.42 V	69	94.39	4.41
3	#10480.00	54.0 PK	74.0	-20.0	1.24 V	195	43.74	10.26
4	#10480.00	43.2 AV	54.0	-10.8	1.24 V	195	32.94	10.26
5	15720.00	59.0 PK	74.0	-15.0	1.06 V	190	44.33	14.67
6	15720.00	48.5 AV	54.0	-5.5	1.06 V	190	33.83	14.67

REMARKS:

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



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CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	113.7 PK			1.86 H	85	109.31	4.39
2	*5260.00	103.1 AV			1.86 H	85	98.71	4.39
3	#10520.00	54.2 PK	74.0	-19.8	1.13 H	216	43.83	10.37
4	#10520.00	43.9 AV	54.0	-10.1	1.13 H	216	33.53	10.37
5	15780.00	58.3 PK	74.0	-15.7	1.19 H	168	43.58	14.72
6	15780.00	48.5 AV	54.0	-5.5	1.19 H	168	33.78	14.72

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	*5260.00	109.2 PK			1.40 V	97	104.81	4.39
2	*5260.00	98.8 AV			1.40 V	97	94.41	4.39
3	#10520.00	54.7 PK	74.0	-19.3	1.20 V	187	44.33	10.37
4	#10520.00	44.0 AV	54.0	-10.0	1.20 V	187	33.63	10.37
5	15780.00	59.8 PK	74.0	-14.2	1.05 V	192	45.08	14.72
6	15780.00	49.0 AV	54.0	-5.0	1.05 V	192	34.28	14.72

REMARKS:

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



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CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.5 PK			1.86 H	81	109.14	4.36
2	*5300.00	102.7 AV			1.86 H	81	98.34	4.36
3	10600.00	54.8 PK	74.0	-19.2	1.10 H	235	44.12	10.68
4	10600.00	44.6 AV	54.0	-9.4	1.10 H	235	33.92	10.68
5	15900.00	58.6 PK	74.0	-15.4	1.15 H	167	43.55	15.05
6	15900.00	48.6 AV	54.0	-5.4	1.15 H	167	33.55	15.05

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	*5300.00	109.3 PK			1.38 V	91	104.94	4.36
2	*5300.00	98.3 AV			1.38 V	91	93.94	4.36
3	10600.00	54.3 PK	74.0	-19.7	1.21 V	200	43.62	10.68
4	10600.00	43.5 AV	54.0	-10.5	1.21 V	200	32.82	10.68
5	15900.00	59.6 PK	74.0	-14.4	1.15 V	205	44.55	15.05
6	15900.00	48.8 AV	54.0	-5.2	1.15 V	205	33.75	15.05

REMARKS:

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



A D T

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	111.0 PK			1.50 H	67	106.58	4.42
2	*5320.00	101.2 AV			1.50 H	67	96.78	4.42
3	5350.00	73.0 PK	74.0	-1.0	1.50 H	67	68.49	4.51
4	5350.00	51.2 AV	54.0	-2.8	1.50 H	67	46.69	4.51
5	10640.00	53.7 PK	74.0	-20.3	1.05 H	213	43.07	10.63
6	10640.00	43.4 AV	54.0	-10.6	1.05 H	213	32.77	10.63
7	15960.00	57.9 PK	74.0	-16.1	1.11 H	182	42.93	14.97
8	15960.00	48.3 AV	54.0	-5.7	1.11 H	182	33.33	14.97

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	*5320.00	107.2 PK			1.45 V	88	102.78	4.42
2	*5320.00	97.5 AV			1.45 V	88	93.08	4.42
3	5350.00	69.2 PK	74.0	-4.8	1.45 V	88	64.69	4.51
4	5350.00	47.7 AV	54.0	-6.3	1.45 V	88	43.19	4.51
5	10640.00	54.7 PK	74.0	-19.3	1.17 V	201	44.07	10.63
6	10640.00	43.8 AV	54.0	-10.2	1.17 V	201	33.17	10.63
7	15960.00	59.4 PK	74.0	-14.6	1.06 V	195	44.43	14.97
8	15960.00	49.1 AV	54.0	-4.9	1.06 V	195	34.13	14.97

REMARKS:

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



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CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	73.6 PK	74.0	-0.4	1.45 H	64	68.99	4.61
2	#5470.00	51.8 AV	54.0	-2.2	1.45 H	64	47.19	4.61
3	*5500.00	109.8 PK			1.45 H	64	105.21	4.59
4	*5500.00	100.7 AV			1.45 H	64	96.11	4.59
5	11000.00	53.4 PK	74.0	-20.6	1.06 H	228	42.55	10.85
6	11000.00	43.2 AV	54.0	-10.8	1.06 H	228	32.35	10.85
7	#16500.00	57.5 PK	74.0	-16.5	1.17 H	167	40.51	16.99
8	#16500.00	47.7 AV	54.0	-6.3	1.17 H	167	30.71	16.99

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	#5470.00	69.3 PK	74.0	-4.7	1.38 V	88	64.69	4.61
2	#5470.00	47.4 AV	54.0	-6.6	1.38 V	88	42.79	4.61
3	*5500.00	105.6 PK			1.38 V	88	101.01	4.59
4	*5500.00	96.6 AV			1.38 V	88	92.01	4.59
5	11000.00	54.2 PK	74.0	-19.8	1.19 V	204	43.35	10.85
6	11000.00	43.5 AV	54.0	-10.5	1.19 V	204	32.65	10.85
7	#16500.00	58.9 PK	74.0	-15.1	1.17 V	215	41.91	16.99
8	#16500.00	48.5 AV	54.0	-5.5	1.17 V	215	31.51	16.99

REMARKS:

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



A D T

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	114.1 PK			1.81 H	67	109.22	4.88
2	*5580.00	103.1 AV			1.81 H	67	98.22	4.88
3	11160.00	53.5 PK	74.0	-20.5	1.14 H	217	42.78	10.72
4	11160.00	43.5 AV	54.0	-10.5	1.14 H	217	32.78	10.72
5	#16740.00	57.2 PK	74.0	-16.8	1.15 H	188	39.32	17.88
6	#16740.00	47.6 AV	54.0	-6.4	1.15 H	188	29.72	17.88

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	*5580.00	110.3 PK			1.37 V	99	105.42	4.88
2	*5580.00	99.4 AV			1.37 V	99	94.52	4.88
3	11160.00	54.2 PK	74.0	-19.8	1.14 V	181	43.48	10.72
4	11160.00	43.5 AV	54.0	-10.5	1.14 V	181	32.78	10.72
5	#16740.00	59.4 PK	74.0	-14.6	1.10 V	216	41.52	17.88
6	#16740.00	48.7 AV	54.0	-5.3	1.10 V	216	30.82	17.88

REMARKS:

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



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	112.8 PK			1.81 H	90	107.87	4.93
2	*5660.00	102.2 AV			1.81 H	90	97.27	4.93
3	11320.00	54.0 PK	74.0	-20.0	1.09 H	243	43.19	10.81
4	11320.00	43.8 AV	54.0	-10.2	1.09 H	243	32.99	10.81
5	#16980.00	57.9 PK	74.0	-16.1	1.16 H	172	39.56	18.34
6	#16980.00	48.4 AV	54.0	-5.6	1.16 H	172	30.06	18.34

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	*5660.00	109.0 PK			1.34 V	76	104.07	4.93
2	*5660.00	98.4 AV			1.34 V	76	93.47	4.93
3	11320.00	54.4 PK	74.0	-19.6	1.13 V	202	43.59	10.81
4	11320.00	43.7 AV	54.0	-10.3	1.13 V	202	32.89	10.81
5	#16980.00	59.6 PK	74.0	-14.4	1.09 V	197	41.26	18.34
6	#16980.00	49.0 AV	54.0	-5.0	1.09 V	197	30.66	18.34

REMARKS:

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



A D T

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.2 PK			1.40 H	65	103.29	4.91
2	*5700.00	98.9 AV			1.40 H	65	93.99	4.91
3	#5725.00	73.1 PK	74.0	-0.9	1.40 H	65	68.17	4.93
4	#5725.00	53.7 AV	54.0	-0.3	1.40 H	65	48.77	4.93
5	11400.00	53.7 PK	74.0	-20.3	1.11 H	216	43.07	10.63
6	11400.00	43.3 AV	54.0	-10.7	1.11 H	216	32.67	10.63
7	#17100.00	57.5 PK	74.0	-16.5	1.18 H	177	38.95	18.55
8	#17100.00	47.7 AV	54.0	-6.3	1.18 H	177	29.15	18.55

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	*5700.00	104.3 PK			1.39 V	72	99.39	4.91
2	*5700.00	94.8 AV			1.39 V	72	89.89	4.91
3	#5725.00	68.9 PK	74.0	-5.1	1.39 V	72	63.97	4.93
4	#5725.00	49.5 AV	54.0	-4.5	1.39 V	72	44.57	4.93
5	11400.00	54.1 PK	74.0	-19.9	1.13 V	183	43.47	10.63
6	11400.00	43.2 AV	54.0	-10.8	1.13 V	183	32.57	10.63
7	#17100.00	59.3 PK	74.0	-14.7	1.17 V	215	40.75	18.55
8	#17100.00	49.0 AV	54.0	-5.0	1.17 V	215	30.45	18.55

REMARKS:

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



A D T

802.11ac (VHT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	1.84 H	77	64.42	4.28
2	5150.00	53.8 AV	54.0	-0.2	1.84 H	77	49.52	4.28
3	*5190.00	105.2 PK			1.84 H	77	100.79	4.41
4	*5190.00	94.7 AV			1.84 H	77	90.29	4.41
5	#10380.00	53.2 PK	74.0	-20.8	1.10 H	237	43.13	10.07
6	#10380.00	43.3 AV	54.0	-10.7	1.10 H	237	33.23	10.07
7	15570.00	57.9 PK	74.0	-16.1	1.11 H	177	42.95	14.95
8	15570.00	48.1 AV	54.0	-5.9	1.11 H	177	33.15	14.95

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	5150.00	64.4 PK	74.0	-9.6	1.42 V	74	60.12	4.28
2	5150.00	49.7 AV	54.0	-4.3	1.42 V	74	45.42	4.28
3	*5190.00	100.9 PK			1.42 V	74	96.49	4.41
4	*5190.00	90.2 AV			1.42 V	74	85.79	4.41
5	#10380.00	54.3 PK	74.0	-19.7	1.14 V	195	44.23	10.07
6	#10380.00	43.8 AV	54.0	-10.2	1.14 V	195	33.73	10.07
7	15570.00	59.0 PK	74.0	-15.0	1.12 V	193	44.05	14.95
8	15570.00	48.5 AV	54.0	-5.5	1.12 V	193	33.55	14.95

REMARKS:

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



A D T

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	109.2 PK			1.84 H	79	104.78	4.42
2	*5230.00	99.2 AV			1.84 H	79	94.78	4.42
3	#10460.00	54.0 PK	74.0	-20.0	1.09 H	214	43.79	10.21
4	#10460.00	43.9 AV	54.0	-10.1	1.09 H	214	33.69	10.21
5	15690.00	57.3 PK	74.0	-16.7	1.10 H	166	42.62	14.68
6	15690.00	47.5 AV	54.0	-6.5	1.10 H	166	32.82	14.68

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	*5230.00	105.5 PK			1.33 V	81	101.08	4.42
2	*5230.00	95.6 AV			1.33 V	81	91.18	4.42
3	#10460.00	54.3 PK	74.0	-19.7	1.23 V	176	44.09	10.21
4	#10460.00	43.6 AV	54.0	-10.4	1.23 V	176	33.39	10.21
5	15690.00	59.2 PK	74.0	-14.8	1.14 V	212	44.52	14.68
6	15690.00	48.7 AV	54.0	-5.3	1.14 V	212	34.02	14.68

REMARKS:

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



A D T

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	109.7 PK			1.81 H	65	105.32	4.38
2	*5270.00	99.7 AV			1.81 H	65	95.32	4.38
3	#10540.00	53.3 PK	74.0	-20.7	1.07 H	219	42.85	10.45
4	#10540.00	43.2 AV	54.0	-10.8	1.07 H	219	32.75	10.45
5	15810.00	57.5 PK	74.0	-16.5	1.19 H	184	42.72	14.78
6	15810.00	47.9 AV	54.0	-6.1	1.19 H	184	33.12	14.78

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	*5270.00	106.0 PK			1.34 V	80	101.62	4.38
2	*5270.00	96.2 AV			1.34 V	80	91.82	4.38
3	#10540.00	54.6 PK	74.0	-19.4	1.19 V	184	44.15	10.45
4	#10540.00	43.7 AV	54.0	-10.3	1.19 V	184	33.25	10.45
5	15810.00	59.7 PK	74.0	-14.3	1.12 V	197	44.92	14.78
6	15810.00	49.0 AV	54.0	-5.0	1.12 V	197	34.22	14.78

REMARKS:

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



A D T

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	107.1 PK			1.79 H	73	102.71	4.39
2	*5310.00	96.4 AV			1.79 H	73	92.01	4.39
3	5350.00	68.1 PK	74.0	-5.9	1.79 H	73	63.59	4.51
4	5350.00	53.4 AV	54.0	-0.6	1.79 H	73	48.89	4.51
5	10620.00	53.5 PK	74.0	-20.5	1.10 H	234	42.85	10.65
6	10620.00	43.2 AV	54.0	-10.8	1.10 H	234	32.55	10.65
7	15930.00	57.7 PK	74.0	-16.3	1.13 H	181	42.69	15.01
8	15930.00	47.9 AV	54.0	-6.1	1.13 H	181	32.89	15.01

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	*5310.00	103.1 PK			1.42 V	98	98.71	4.39
2	*5310.00	92.5 AV			1.42 V	98	88.11	4.39
3	5350.00	63.6 PK	74.0	-10.4	1.42 V	98	59.09	4.51
4	5350.00	49.2 AV	54.0	-4.8	1.42 V	98	44.69	4.51
5	10620.00	54.5 PK	74.0	-19.5	1.14 V	202	43.85	10.65
6	10620.00	43.8 AV	54.0	-10.2	1.14 V	202	33.15	10.65
7	15930.00	59.5 PK	74.0	-14.5	1.17 V	194	44.49	15.01
8	15930.00	49.0 AV	54.0	-5.0	1.17 V	194	33.99	15.01

REMARKS:

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



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CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	69.8 PK	74.0	-4.2	1.72 H	67	65.19	4.61
2	#5470.00	53.0 AV	54.0	-1.0	1.72 H	67	48.39	4.61
3	*5510.00	103.7 PK			1.72 H	67	99.07	4.63
4	*5510.00	93.9 AV			1.72 H	67	89.27	4.63
5	11020.00	53.8 PK	74.0	-20.2	1.14 H	233	42.98	10.82
6	11020.00	43.8 AV	54.0	-10.2	1.14 H	233	32.98	10.82
7	#16530.00	57.6 PK	74.0	-16.4	1.14 H	191	40.56	17.04
8	#16530.00	48.0 AV	54.0	-6.0	1.14 H	191	30.96	17.04

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	#5470.00	65.9 PK	74.0	-8.1	1.35 V	73	61.29	4.61
2	#5470.00	49.4 AV	54.0	-4.6	1.35 V	73	44.79	4.61
3	*5510.00	99.1 PK			1.35 V	73	94.47	4.63
4	*5510.00	89.6 AV			1.35 V	73	84.97	4.63
5	11020.00	53.7 PK	74.0	-20.3	1.13 V	192	42.88	10.82
6	11020.00	43.2 AV	54.0	-10.8	1.13 V	192	32.38	10.82
7	#16530.00	59.2 PK	74.0	-14.8	1.12 V	202	42.16	17.04
8	#16530.00	48.8 AV	54.0	-5.2	1.12 V	202	31.76	17.04

REMARKS:

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



CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	71.1 PK	74.0	-2.9	1.72 H	65	66.49	4.61
2	#5470.00	53.0 AV	54.0	-1.0	1.72 H	65	48.39	4.61
3	*5550.00	109.7 PK			1.72 H	65	104.93	4.77
4	*5550.00	99.8 AV			1.72 H	65	95.03	4.77
5	11100.00	54.0 PK	74.0	-20.0	1.10 H	222	43.31	10.69
6	11100.00	43.5 AV	54.0	-10.5	1.10 H	222	32.81	10.69
7	#16650.00	57.6 PK	74.0	-16.4	1.10 H	167	40.19	17.41
8	#16650.00	48.3 AV	54.0	-5.7	1.10 H	167	30.89	17.41

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	#5470.00	66.9 PK	74.0	-7.1	1.35 V	98	62.29	4.61
2	#5470.00	49.1 AV	54.0	-4.9	1.35 V	98	44.49	4.61
3	*5550.00	105.5 PK			1.35 V	98	100.73	4.77
4	*5550.00	95.4 AV			1.35 V	98	90.63	4.77
5	11100.00	54.1 PK	74.0	-19.9	1.15 V	193	43.41	10.69
6	11100.00	43.5 AV	54.0	-10.5	1.15 V	193	32.81	10.69
7	#16650.00	59.4 PK	74.0	-14.6	1.05 V	205	41.99	17.41
8	#16650.00	48.7 AV	54.0	-5.3	1.05 V	205	31.29	17.41

REMARKS:

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



A D T

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	108.9 PK			1.69 H	64	103.97	4.93
2	*5670.00	98.1 AV			1.69 H	64	93.17	4.93
3	#5725.00	68.9 PK	74.0	-5.1	1.69 H	64	63.97	4.93
4	#5725.00	52.0 AV	54.0	-2.0	1.69 H	64	47.07	4.93
5	11340.00	53.1 PK	74.0	-20.9	1.07 H	232	42.34	10.76
6	11340.00	43.0 AV	54.0	-11.0	1.07 H	232	32.24	10.76
7	#17010.00	56.8 PK	74.0	-17.2	1.14 H	192	38.43	18.37
8	#17010.00	47.5 AV	54.0	-6.5	1.14 H	192	29.13	18.37

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	*5670.00	104.4 PK			1.35 V	96	99.47	4.93
2	*5670.00	93.8 AV			1.35 V	96	88.87	4.93
3	#5725.00	65.2 PK	74.0	-8.8	1.35 V	96	60.27	4.93
4	#5725.00	48.1 AV	54.0	-5.9	1.35 V	96	43.17	4.93
5	11340.00	54.6 PK	74.0	-19.4	1.14 V	200	43.84	10.76
6	11340.00	43.9 AV	54.0	-10.1	1.14 V	200	33.14	10.76
7	#17010.00	59.0 PK	74.0	-15.0	1.08 V	214	40.63	18.37
8	#17010.00	48.4 AV	54.0	-5.6	1.08 V	214	30.03	18.37

REMARKS:

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



A D T

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.5 PK	74.0	-4.5	1.87 H	72	65.22	4.28
2	5150.00	53.6 AV	54.0	-0.4	1.87 H	72	49.32	4.28
3	*5210.00	99.1 PK			1.87 H	72	94.67	4.43
4	*5210.00	89.6 AV			1.87 H	72	85.17	4.43
5	#10420.00	54.0 PK	74.0	-20.0	1.17 H	234	43.89	10.11
6	#10420.00	43.6 AV	54.0	-10.4	1.17 H	234	33.49	10.11
7	15630.00	57.7 PK	74.0	-16.3	1.19 H	182	42.76	14.94
8	15630.00	48.3 AV	54.0	-5.7	1.19 H	182	33.36	14.94

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	5150.00	65.4 PK	74.0	-8.6	1.40 V	89	61.12	4.28
2	5150.00	49.5 AV	54.0	-4.5	1.40 V	89	45.22	4.28
3	*5210.00	94.7 PK			1.40 V	89	90.27	4.43
4	*5210.00	85.3 AV			1.40 V	89	80.87	4.43
5	#10420.00	54.6 PK	74.0	-19.4	1.16 V	201	44.49	10.11
6	#10420.00	43.6 AV	54.0	-10.4	1.16 V	201	33.49	10.11
7	15630.00	59.9 PK	74.0	-14.1	1.08 V	187	44.96	14.94
8	15630.00	49.1 AV	54.0	-4.9	1.08 V	187	34.16	14.94

REMARKS:

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



A D T

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	99.2 PK			1.80 H	72	94.83	4.37
2	*5290.00	89.6 AV			1.80 H	72	85.23	4.37
3	5350.00	67.7 PK	74.0	-6.3	1.80 H	72	63.19	4.51
4	5350.00	53.0 AV	54.0	-1.0	1.80 H	72	48.49	4.51
5	#10580.00	53.8 PK	74.0	-20.2	1.12 H	236	43.19	10.61
6	#10580.00	43.7 AV	54.0	-10.3	1.12 H	236	33.09	10.61
7	15870.00	58.3 PK	74.0	-15.7	1.20 H	177	43.34	14.96
8	15870.00	48.5 AV	54.0	-5.5	1.20 H	177	33.54	14.96

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	*5290.00	95.2 PK			1.39 V	72	90.83	4.37
2	*5290.00	85.6 AV			1.39 V	72	81.23	4.37
3	5350.00	63.3 PK	74.0	-10.7	1.39 V	72	58.79	4.51
4	5350.00	48.6 AV	54.0	-5.4	1.39 V	72	44.09	4.51
5	#10580.00	54.4 PK	74.0	-19.6	1.17 V	184	43.79	10.61
6	#10580.00	43.7 AV	54.0	-10.3	1.17 V	184	33.09	10.61
7	15870.00	59.9 PK	74.0	-14.1	1.07 V	213	44.94	14.96
8	15870.00	49.1 AV	54.0	-4.9	1.07 V	213	34.14	14.96

REMARKS:

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



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CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	69.7 PK	74.0	-4.3	1.75 H	63	65.09	4.61
2	#5470.00	53.8 AV	54.0	-0.2	1.75 H	63	49.19	4.61
3	*5530.00	99.3 PK			1.75 H	63	94.60	4.70
4	*5530.00	89.1 AV			1.75 H	63	84.40	4.70
5	11060.00	53.3 PK	74.0	-20.7	1.16 H	217	42.55	10.75
6	11060.00	43.0 AV	54.0	-11.0	1.16 H	217	32.25	10.75
7	#16590.00	57.5 PK	74.0	-16.5	1.15 H	179	40.34	17.16
8	#16590.00	47.8 AV	54.0	-6.2	1.15 H	179	30.64	17.16

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	#5470.00	65.7 PK	74.0	-8.3	1.36 V	63	61.09	4.61
2	#5470.00	49.6 AV	54.0	-4.4	1.36 V	63	44.99	4.61
3	*5530.00	95.4 PK			1.36 V	63	90.70	4.70
4	*5530.00	84.9 AV			1.36 V	63	80.20	4.70
5	11060.00	54.1 PK	74.0	-19.9	1.23 V	191	43.35	10.75
6	11060.00	43.4 AV	54.0	-10.6	1.23 V	191	32.65	10.75
7	#16590.00	59.3 PK	74.0	-14.7	1.12 V	187	42.14	17.16
8	#16590.00	49.0 AV	54.0	-5.0	1.12 V	187	31.84	17.16

REMARKS:

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

4.3 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.47 – 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

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 NANT ≤ 4;

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

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.



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4.3.2 TEST INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power meter Anritsu	ML2495A	1014008	Apr. 30, 2014	Apr. 29, 2015
Power sensor Anritsu	MA2411B	0917122	Apr. 30, 2014	Apr. 29, 2015

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. Tested date : Aug. 14, 2014

FOR 26dB OCCUPIED BANDWIDTH

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 05, 2014	July 04, 2015

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. Tested date : Aug. 14, 2014

4.3.3 TEST PROCEDURE

FOR POWER OUTPUT MEASUREMENT

Method PM is 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.

FOR 26dB OCCUPIED BANDWIDTH

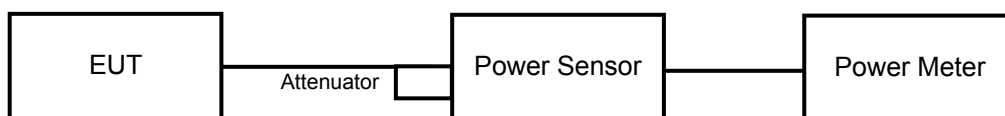
1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.4 DEVIATION FROM TEST STANDARD

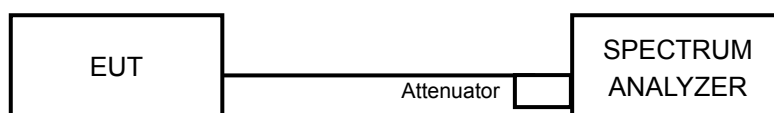
No deviation

4.3.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.3.7 TEST RESULTS

802.11a

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	13.39	13.62	44.841	16.52	17	PASS
40	5200	13.36	13.70	45.119	16.54	17	PASS
48	5240	13.12	13.71	44.008	16.44	17	PASS
52	5260	16.22	17.02	92.229	19.65	24	PASS
60	5300	16.01	16.82	87.986	19.44	24	PASS
64	5320	13.26	14.01	46.361	16.66	23.99	PASS
100	5500	13.27	14.16	47.294	16.75	24	PASS
116	5580	16.01	16.13	80.922	19.08	24	PASS
132	5660	15.63	15.64	73.203	18.65	24	PASS
140	5700	11.68	11.97	30.463	14.84	24	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	22.46	19.97
40	5200	28.21	20.17
48	5240	22.45	20.89
52	5260	45.79	40.71
60	5300	43.45	39.90
64	5320	20.06	19.94
100	5500	27.01	20.10
116	5580	40.66	45.87
132	5660	42.45	40.23
140	5700	22.59	20.87

Note: For output power limitation is determined based on 26dB emission bandwidth.



A D T

Power Limit = 4dBm + 10logB < UNII Band 1>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
36	5180	19.97	17 > 17
40	5200	20.17	17.04 > 17
48	5240	20.89	17.19 > 17
Power Limit = 11dBm + 10logB < UNII Band 2~3>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	40.71	27.09 > 24
60	5300	39.90	27 > 24
64	5320	19.94	23.99 < 24
100	5500	20.10	24.03 > 24
116	5580	40.66	27.09 > 24
132	5660	40.23	27.04 > 24
140	5700	20.87	24.19 > 24

**802.11ac (VHT20)**

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	13.09	13.36	42.047	16.24	17	PASS
40	5200	13.19	13.66	44.072	16.44	17	PASS
48	5240	12.88	13.50	41.796	16.21	17	PASS
52	5260	16.42	17.21	96.455	19.84	24	PASS
60	5300	15.81	16.52	82.982	19.19	24	PASS
64	5320	13.39	14.09	47.472	16.76	24	PASS
100	5500	12.47	13.29	38.99	15.91	24	PASS
116	5580	16.03	16.03	80.174	19.04	24	PASS
132	5660	16.10	16.02	80.732	19.07	24	PASS
140	5700	10.53	11.36	24.975	13.98	24	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	20.94	20.39
40	5200	36.02	20.52
48	5240	23.96	20.16
52	5260	47.82	39.50
60	5300	44.85	44.08
64	5320	24.99	20.73
100	5500	21.41	20.32
116	5580	46.62	50.72
132	5660	44.64	41.43
140	5700	21.75	20.33

Note: For output power limitation is determined based on 26dB emission bandwidth.



A D T

Power Limit = 4dBm + 10logB < UNII Band 1>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
36	5180	20.39	17.09 > 17
40	5200	20.52	17.12 > 17
48	5240	20.16	17.04 > 17
Power Limit = 11dBm + 10logB < UNII Band 2~3>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	39.50	26.96 > 24
60	5300	44.08	27.44 > 24
64	5320	20.73	24.16 > 24
100	5500	20.32	24.07 > 24
116	5580	46.62	27.68 > 24
132	5660	41.43	27.17 > 24
140	5700	20.33	24.08 > 24



802.11ac (VHT40)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	9.89	10.12	20.03	13.02	17	PASS
46	5230	12.89	13.42	41.433	16.17	17	PASS
54	5270	15.23	15.83	71.625	18.55	24	PASS
62	5310	10.65	11.48	25.674	14.09	24	PASS
102	5510	9.72	9.87	19.081	12.81	24	PASS
110	5550	14.78	15.71	67.3	18.28	24	PASS
134	5670	12.85	13.21	40.216	16.04	24	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
38	5190	41.77	41.45
46	5230	68.10	53.46
54	5270	85.76	76.63
62	5310	47.40	46.99
102	5510	42.24	41.64
110	5550	85.52	83.73
134	5670	56.64	52.65

Note: For output power limitation is determined based on 26dB emission bandwidth.



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Power Limit = 4dBm + 10logB < UNII Band 1>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
38	5190	41.45	20.17 > 17
46	5230	53.46	21.28 > 17
Power Limit = 11dBm + 10logB < UNII Band 2~3>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	76.63	29.84 > 24
62	5310	46.99	27.72 > 24
102	5510	41.64	27.19 > 24
110	5550	83.73	30.22 > 24
134	5670	52.65	28.21 > 24



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802.11ac (VHT80)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
42	5210	8.74	8.92	15.28	11.84	17	PASS
58	5290	8.84	8.93	15.472	11.90	24	PASS
106	5530	8.88	8.90	15.489	11.90	24	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
42	5210	118.30	82.03
58	5290	112.72	94.41
106	5530	113.28	82.05

Note: For output power limitation is determined based on 26dB emission bandwidth.

Power Limit = 4dBm + 10logB < UNII Band 1>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
42	5210	82.03	23.13 > 17
Power Limit = 11dBm + 10logB < UNII Band 2~3>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	94.41	30.75 > 24
106	5530	82.05	30.14 > 24



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4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.15 ~ 5.25GHz	4dBm
5.25 ~ 5.35GHz	11dBm
5.47 ~ 5.725GHz	11dBm
5.725 ~ 5.825GHz	17dBm

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 05, 2014	July 04, 2015

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. Tested date : Aug. 14, 2014

4.4.3 TEST PROCEDURES

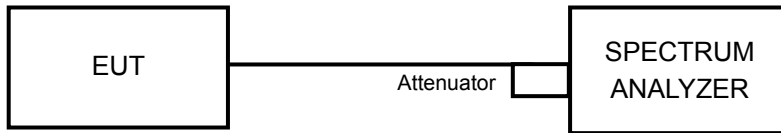
Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS.
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6



4.4.7 TEST RESULTS

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
36	5180	-2.75	-3.79	-0.23	2.18	PASS
40	5200	-3.64	-3.13	-0.37	2.18	PASS
48	5240	-3.02	-2.29	0.37	2.18	PASS
52	5260	-1.63	-0.76	1.84	9.18	PASS
60	5300	-1.03	-0.79	2.10	9.18	PASS
64	5320	-2.43	-3.44	0.10	9.18	PASS
100	5500	-2.78	-1.83	0.73	9.18	PASS
116	5580	0.32	-0.36	3.00	9.18	PASS
132	5660	-2.19	-1.68	1.08	9.18	PASS
140	5700	-4.14	-4.13	-1.12	9.18	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. **5150~5250MHz:** Directional gain = $4.81\text{dBi} + 10\log(2) = 7.82\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $4 - (7.82 - 6) = 2.18\text{dBm}$.

5250~5350MHz, 5470~5725MHz: Directional gain = $4.81\text{dBi} + 10\log(2) = 7.82\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.82 - 6) = 9.18\text{dBm}$.

**802.11ac (VHT20)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
36	5180	-2.59	-2.94	0.25	4	PASS
40	5200	-3.26	-2.13	0.35	4	PASS
48	5240	-3.18	-2.97	-0.06	4	PASS
52	5260	-0.89	-0.64	2.25	11	PASS
60	5300	-0.96	-1.43	1.82	11	PASS
64	5320	-3.31	-2.78	-0.03	11	PASS
100	5500	-3.21	-2.81	0.00	11	PASS
116	5580	-0.41	0.41	3.03	11	PASS
132	5660	-2.51	-1.40	1.09	11	PASS
140	5700	-6.22	-5.20	-2.67	11	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ac (VHT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
38	5190	-9.77	-9.87	-6.81	4	PASS
46	5230	-6.44	-6.96	-3.68	4	PASS
54	5270	-5.39	-5.07	-2.22	11	PASS
62	5310	-8.32	-7.90	-5.09	11	PASS
102	5510	-9.25	-9.33	-6.28	11	PASS
110	5550	-4.55	-4.07	-1.29	11	PASS
134	5670	-6.97	-8.47	-4.65	11	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.



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802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
42	5210	-14.91	-14.44	-11.66	4	PASS
58	5290	-14.69	-12.94	-10.72	11	PASS
106	5530	-12.18	-13.45	-9.76	11	PASS

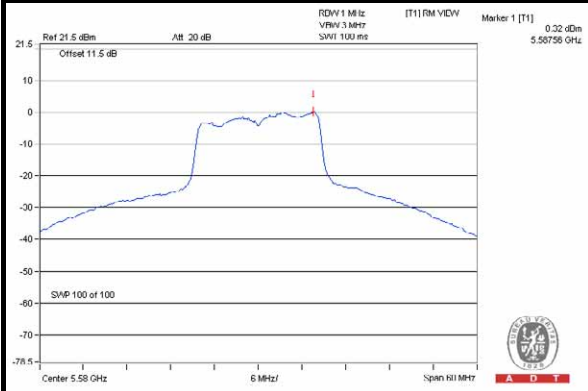
NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.



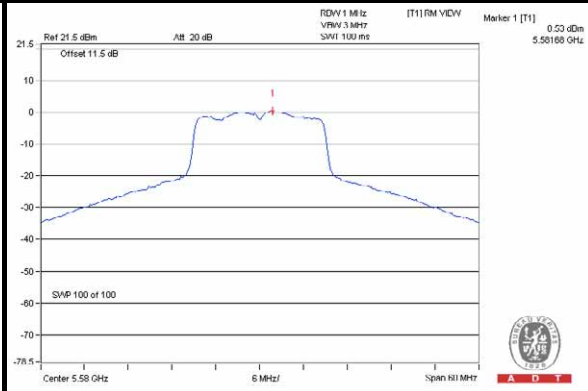
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SPECTRUM PLOT OF WORST VALUE

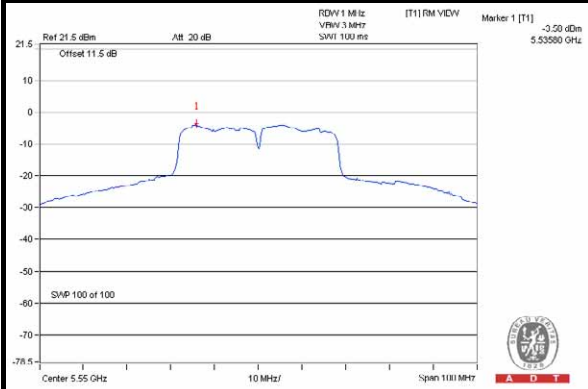
802.11a / Chain(0) : CH116



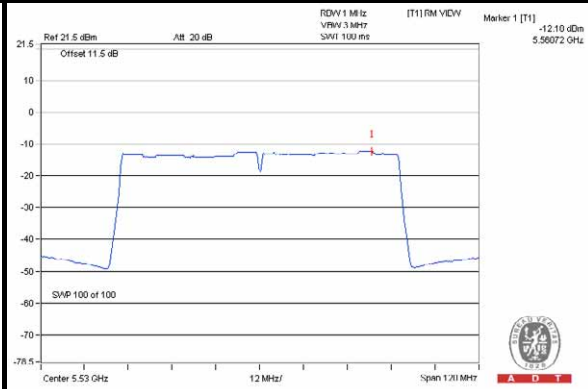
802.11ac (VHT20) / Chain(1) : CH116



802.11ac (VHT40) / Chain(1) : CH110



802.11ac (VHT80) / Chain(0) : CH106



4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 05, 2014	July 04, 2015

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. Tested date : Aug. 14, 2014

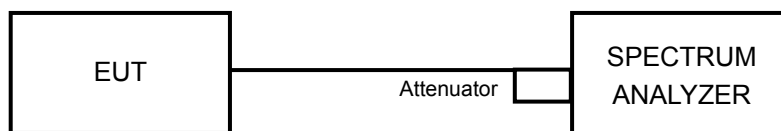
4.5.3 TEST PROCEDURE

1. Set RBW = 1 MHz, VBW \geq 3 MHz, Detector = peak.
2. Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak search function to find the peak of the spectrum.
4. Measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



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4.5.7 TEST RESULTS

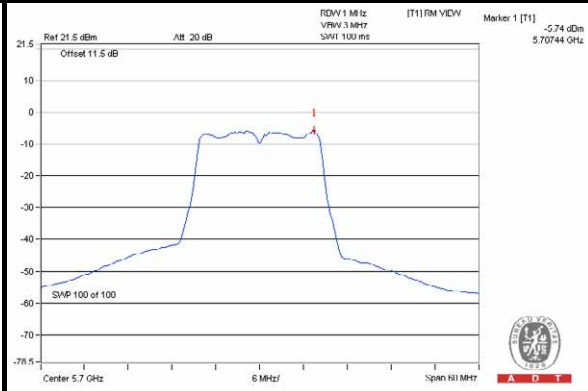
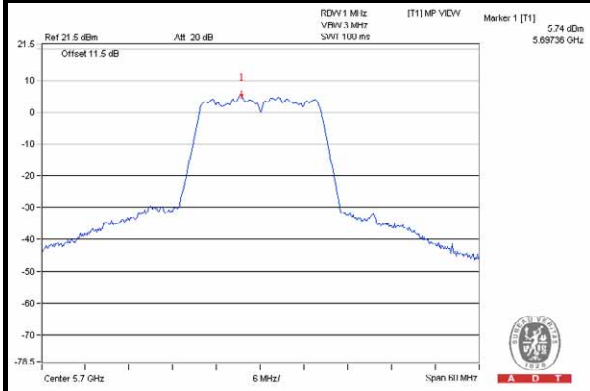
MODULATION MODE	MODULATION TYPE	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS/ FAIL
802.11a	BPSK	5700	5.18	-4.14	9.32	13	PASS
	QPSK		5.70	-4.82	10.52	13	PASS
	16QAM		5.19	-4.88	10.07	13	PASS
	64QAM		5.74	-5.74	11.48	13	PASS
802.11ac (VHT20)	BPSK	5700	5.06	-5.35	10.41	13	PASS
	QPSK		6.60	-5.39	11.99	13	PASS
	16QAM		6.05	-5.50	11.55	13	PASS
	64QAM		5.63	-5.47	11.10	13	PASS
	256QAM		6.04	-5.64	11.68	13	PASS
802.11ac (VHT40)	BPSK	5670	3.73	-6.97	10.70	13	PASS
	QPSK		3.83	-7.39	11.22	13	PASS
	16QAM		3.66	-8.40	12.06	13	PASS
	64QAM		3.08	-8.35	11.43	13	PASS
	256QAM		3.74	-7.64	11.38	13	PASS
802.11ac (VHT80)	BPSK	5530	-1.83	-12.18	10.35	13	PASS
	QPSK		-0.88	-12.46	11.58	13	PASS
	16QAM		-1.07	-12.51	11.44	13	PASS
	64QAM		0.17	-12.24	12.41	13	PASS
	256QAM		0.87	-10.40	11.27	13	PASS



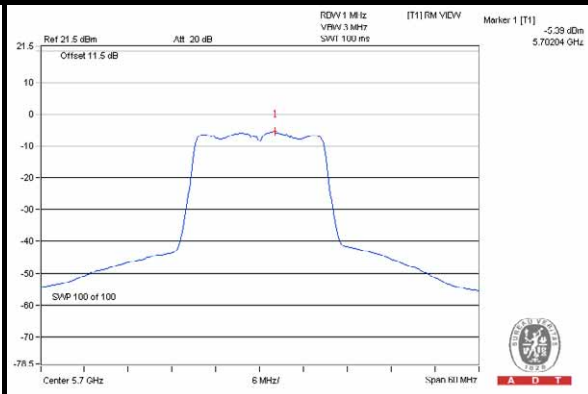
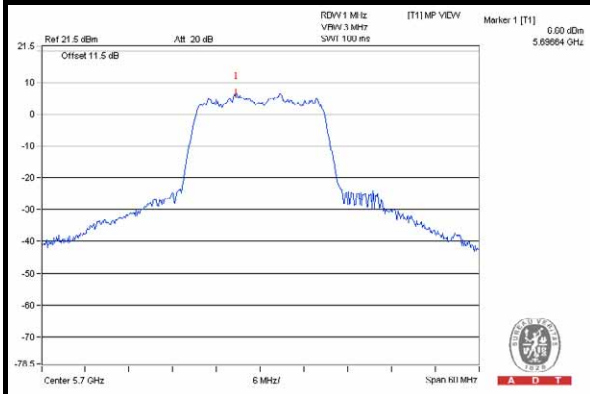
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SPECTRUM PLOT OF WORST VALUE

802.11a / 64QAM



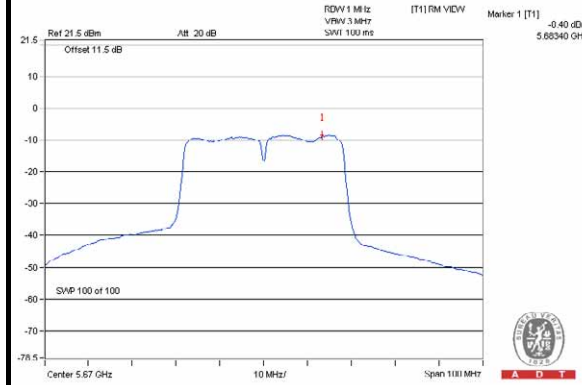
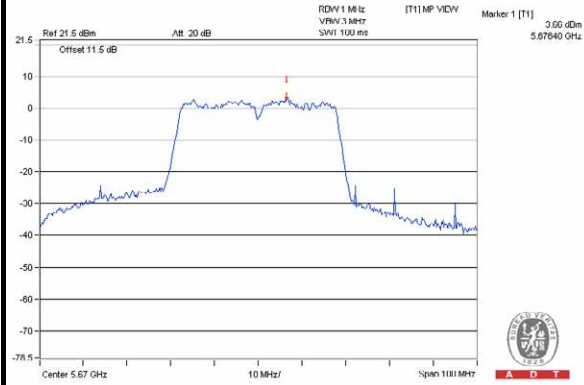
802.11ac (VHT20) / QPSK



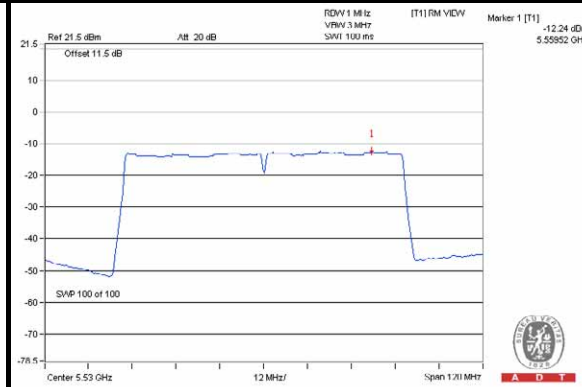
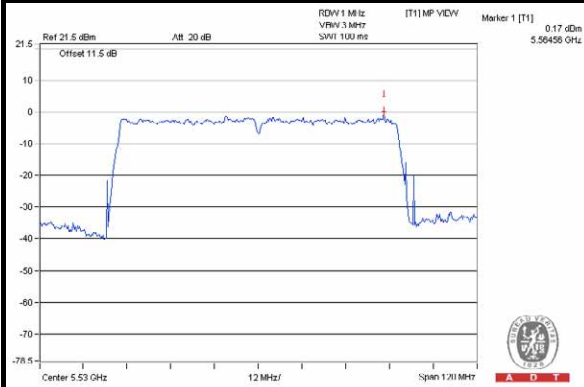


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802.11ac (VHT40) / 16QAM



802.11ac (VHT80) / 64QAM





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4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 05, 2014	July 04, 2015
Temperature Humidity Chamber GIANTFORCE &	GTH-150-40-SP -AR	MAA0812-008	Jan. 13, 2014	Jan. 12, 2015

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. Tested date : Aug. 14, 2014

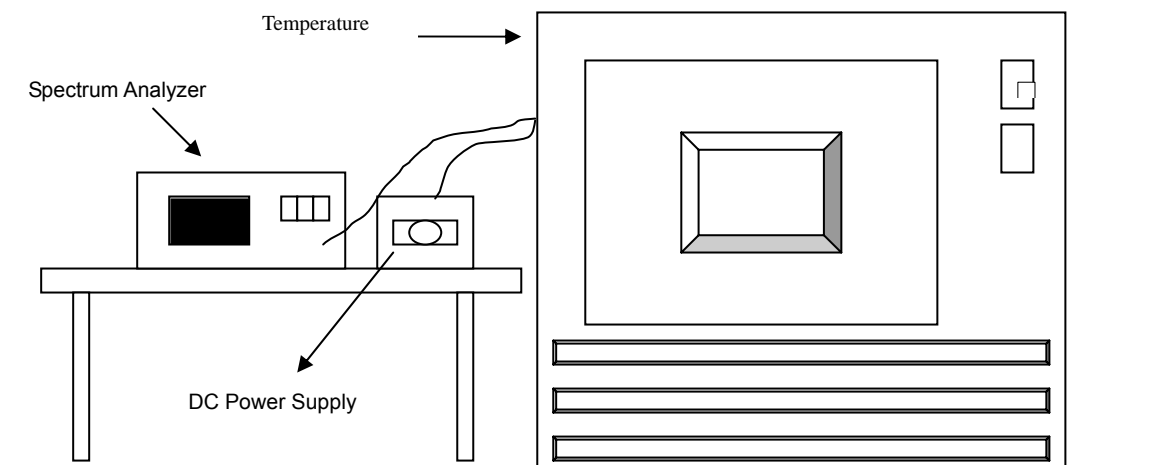
4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.



4.6.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5700MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	3.3	5700.0063	0.00011	5700.0064	0.00011	5700.009	0.00016	5700.0083	0.00015
40	3.3	5699.9731	-0.00047	5699.9754	-0.00043	5699.9766	-0.00041	5699.9769	-0.00041
30	3.3	5700.0281	0.00049	5700.0271	0.00048	5700.024	0.00042	5700.0246	0.00043
20	3.3	5700.0263	0.00046	5700.0256	0.00045	5700.0252	0.00044	5700.0249	0.00044
10	3.3	5699.9853	-0.00026	5699.9851	-0.00026	5699.9857	-0.00025	5699.9874	-0.00022
0	3.3	5699.9828	-0.00030	5699.9808	-0.00034	5699.98	-0.00035	5699.9852	-0.00026
-10	3.3	5700.0241	0.00042	5700.0255	0.00045	5700.0288	0.00051	5700.026	0.00046
-20	3.3	5700.0103	0.00018	5700.0105	0.00018	5700.0113	0.00020	5700.0072	0.00013
-30	3.3	5700.028	0.00049	5700.0252	0.00044	5700.028	0.00049	5700.0234	0.00041

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5700MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
20	3.6	5700.0261	0.00046	5700.0265	0.00046	5700.0258	0.00045	5700.0247	0.00043
	3.3	5700.0263	0.00046	5700.0256	0.00045	5700.0252	0.00044	5700.0249	0.00044
	3	5700.0259	0.00045	5700.0264	0.00046	5700.0256	0.00045	5700.0251	0.00044

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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6. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF/Telecom Lab:

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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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7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---