

FCC Test Report

Report No.: RF200317E01

FCC ID: RAS-MT7921

Test Model: MT7921

Received Date: Mar. 17, 2020

Test Date: July 07 to Sep. 08, 2020

Issued Date: Sep. 17, 2020

Applicant: MediaTek Inc.

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

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



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Release Control Record

Issue No.	Description	Date Issued
RF200317E01	Original release.	Sep. 17, 2020

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6) + BLE Combo Card

Brand: MediaTek

Test Model: MT7921

Sample Status: ENGINEERING SAMPLE

Applicant: MediaTek Inc.

Test Date: July 07 to Sep. 08, 2020

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

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

Prepared by :



Date:

Sep. 17, 2020

Claire Kuan / Specialist

Approved by :



Date:

Sep. 17, 2020

Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.17 dB at 21.16822 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.1 dB at 2390.00 MHz, 2483.50 MHz, 2484.23 MHz, 2484.26 MHz, 2484.44 MHz.
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is R-SMA or i-pex(MHF) not a standard connector.

Note:

- For 2.4 GHz band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Conducted emissions	9kHz ~ 40GHz	2.5 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6) + BLE Combo Card
Brand	MediaTek
Test Model	MT7921
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz
Number of Channel	2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	2.412 ~ 2.472 GHz: 843.187 mW 5.18 ~ 5.24 GHz: 152.277 mW 5.26 ~ 5.32GHz: 154.026 mW 5.5 ~ 5.72GHz: 157.923 mW 5.745 ~ 5.825 GHz: 195.58 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. Simultaneously transmission condition.

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

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

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

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding cable loss Antenna Gain (dBi)
1	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5dB 5.15~5.85GHz : 0.8dB	2.92 4.67
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5dB 5.15~5.85GHz : 0.8dB	2.92 4.67
2	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included Cable loss	-
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included Cable loss	-

3. The EUT incorporates a MIMO function:

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

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), VHT mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz), therefore investigated worst case to representative mode in test report.

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

3.2 Description of Test Modes

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

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

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
1	√	√	√	√	With PIFA antenna
2	√	√	-	-	With Dipole antenna

Where **RE $\geq$ 1G:** Radiated Emission above 1GHz & Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission Test (Above 1GHz):

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1 Mb/s
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6 Mb/s
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0

Radiated Emission Test (Below 1GHz):

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 13	6	DSSS	DBPSK	1 Mb/s

Power Line Conducted Emission Test:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 13	6	DSSS	DBPSK	1 Mb/s

Antenna Port Conducted Measurement:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	Data Rate Parameter
802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1 Mb/s
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6 Mb/s
VHT20	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
VHT40	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (System)	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Tom Yang
RE<1G	23deg. C, 66%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin

3.3 Duty Cycle of Test Signal

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

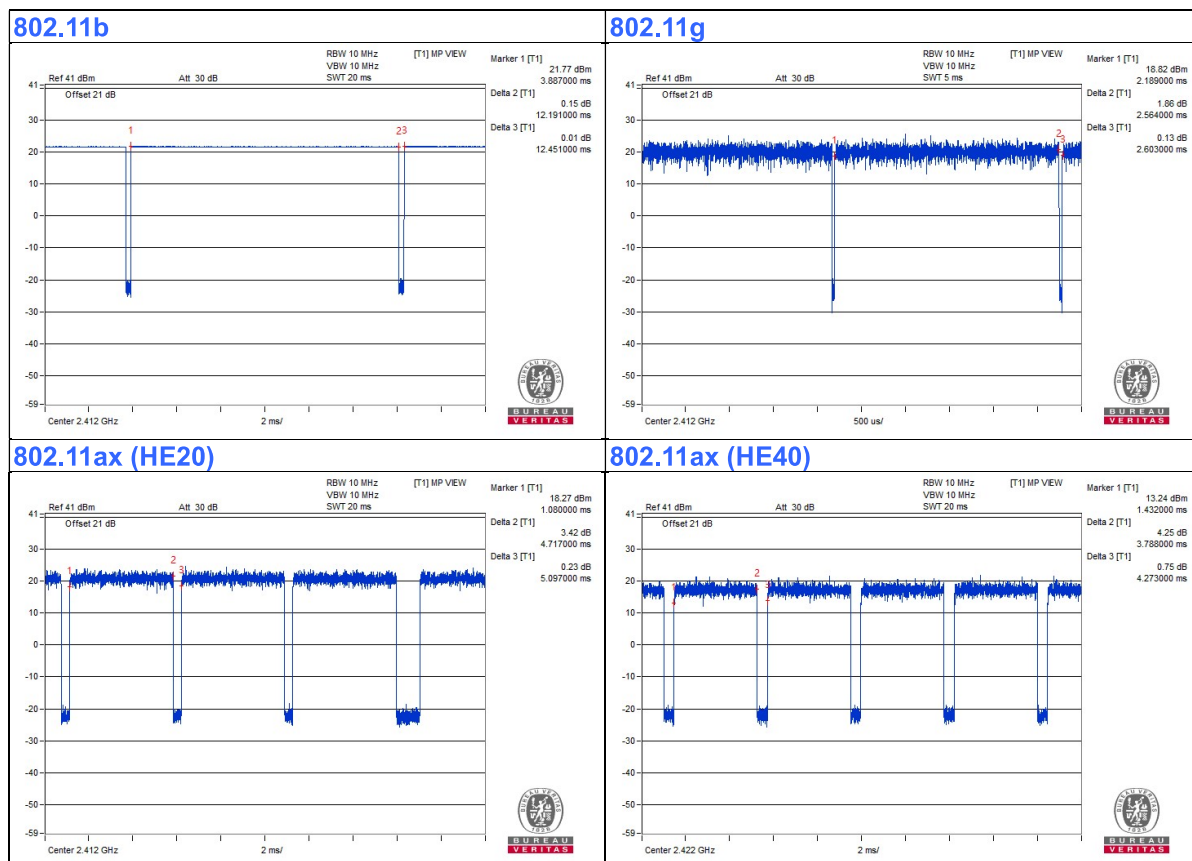
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $12.191 \text{ ms} / 12.451 \text{ ms} = 0.979$, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11g: Duty cycle = $2.564 \text{ ms} / 2.603 \text{ ms} = 0.985$

802.11ax (HE20): Duty cycle = $4.717 \text{ ms} / 5.097 \text{ ms} = 0.925$, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.33 \text{ dB}$

802.11ax (HE40): Duty cycle = $3.788 \text{ ms} / 4.273 \text{ ms} = 0.886$, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.52 \text{ dB}$



3.4 Description of Support Units

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

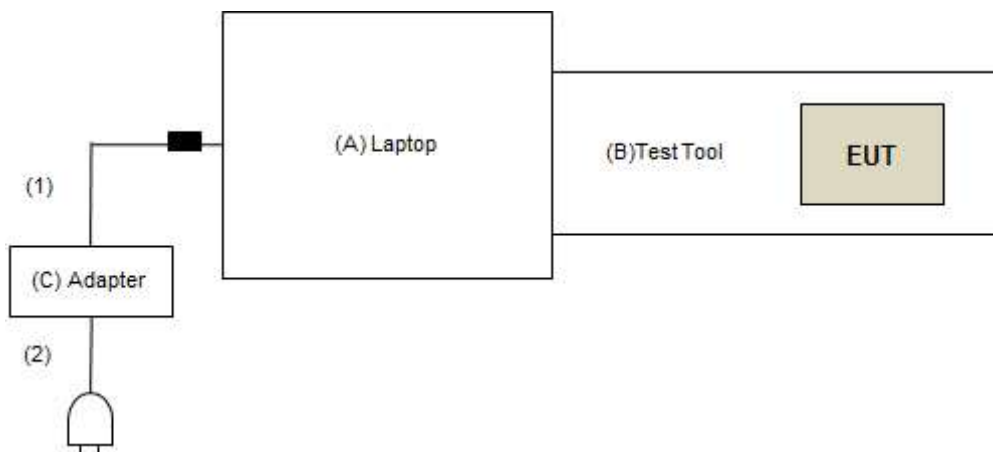
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	H7LYQ32	FCC DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by client
C.	Adapter	Dell	FA65NE0-00	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.6	No	1	Provided by Lab
2.	AC Cable	1	1	No	0	Provided by Lab

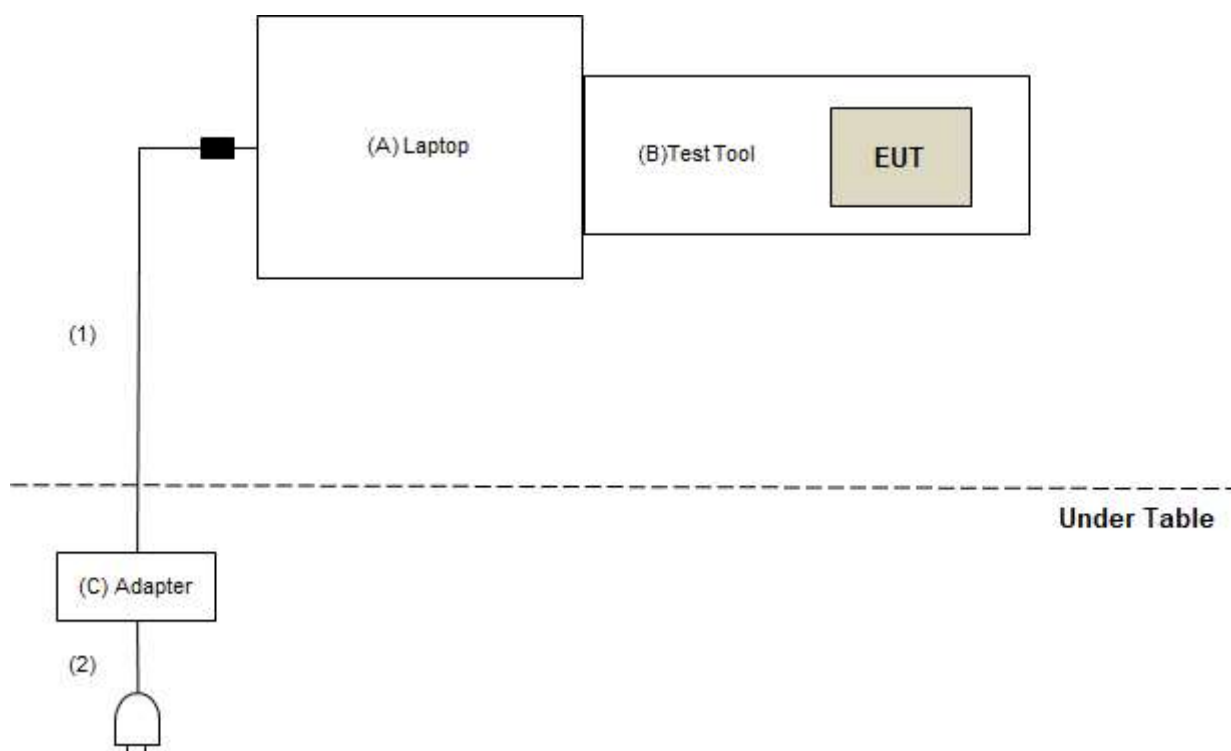
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For Conducted Emissions test:



For Radiated Emissions test:



3.5 General Description of Applied Standards and References

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

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

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

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

For Radiated Emission and Band-Edge Test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 28, 2020	Apr. 27, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-3-1	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-2	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-3	Mar. 17, 2020	Mar. 16, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 26, 2019	Sep. 25, 2020
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1200	160922	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY55330160	Feb. 07, 2020	Feb. 06, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: July 07 to Sep. 02, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Sep. 04, 2020

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

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

For Radiated emission above 30MHz

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

Note:

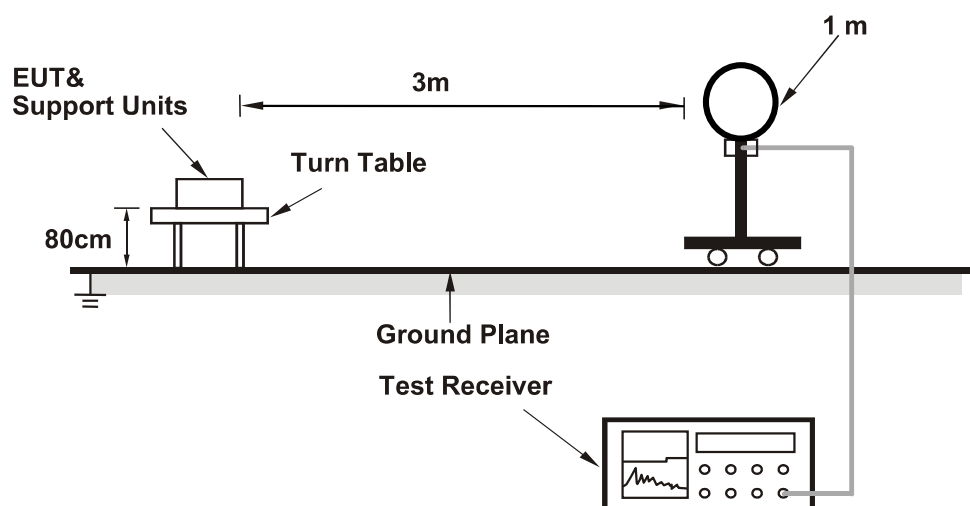
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

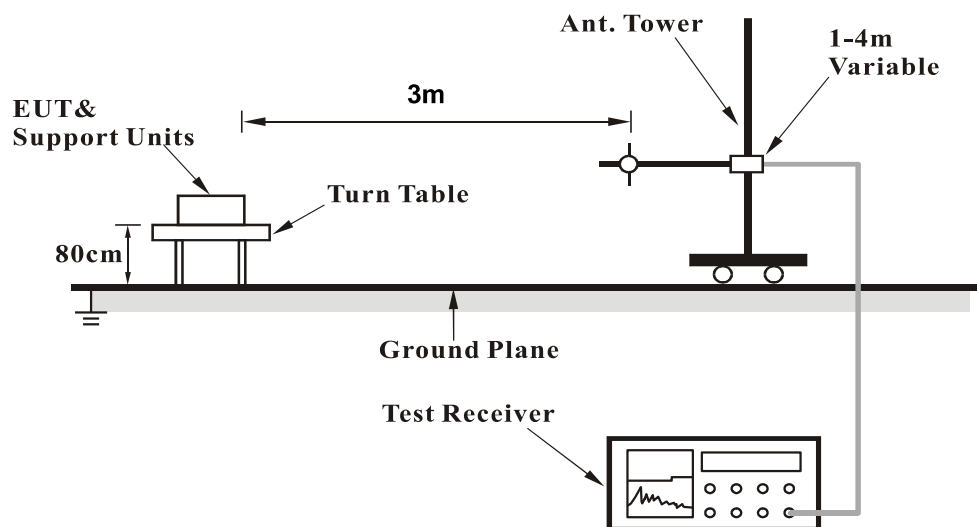
No deviation.

4.1.5 Test Setup

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



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

4.1.6 EUT Operating Conditions

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (MT7961 QA 0.0.2.28) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results (Mode 1)

Above 1GHz Data :

802.11b

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.0 PK	74.0	-18.0	2.76 H	315	57.9	-1.9
2	2390.00	44.0 AV	54.0	-10.0	2.76 H	315	45.9	-1.9
3	*2412.00	110.9 PK			2.76 H	315	112.8	-1.9
4	*2412.00	108.6 AV			2.76 H	315	110.5	-1.9
5	4824.00	50.3 PK	74.0	-23.7	1.42 H	355	47.4	2.9
6	4824.00	48.1 AV	54.0	-5.9	1.42 H	355	45.2	2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.0 PK	74.0	-20.0	1.50 V	21	55.9	-1.9
2	2390.00	41.0 AV	54.0	-13.0	1.50 V	21	42.9	-1.9
3	*2412.00	104.3 PK			1.50 V	21	106.2	-1.9
4	*2412.00	103.2 AV			1.50 V	21	105.1	-1.9
5	4824.00	50.3 PK	74.0	-23.7	2.03 V	51	47.4	2.9
6	4824.00	48.9 AV	54.0	-5.1	2.03 V	51	46.0	2.9

Remarks:

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

Channel	TX Channel 2	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	53.6 PK	74.0	-20.4	2.71 H	315	55.5	-1.9
2	2390.00	41.5 AV	54.0	-12.5	2.71 H	315	43.4	-1.9
3	*2417.00	110.8 PK			2.71 H	315	112.7	-1.9
4	*2417.00	108.9 AV			2.71 H	315	110.8	-1.9
5	4834.00	49.7 PK	74.0	-24.3	1.44 H	360	46.8	2.9
6	4834.00	47.6 AV	54.0	-6.4	1.44 H	360	44.7	2.9
7	7251.00	44.4 PK	74.0	-29.6	1.58 H	306	35.6	8.8
8	7251.00	37.3 AV	54.0	-16.7	1.58 H	306	28.5	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	53.3 PK	74.0	-20.7	1.45 V	25	55.2	-1.9
2	2390.00	39.7 AV	54.0	-14.3	1.45 V	25	41.6	-1.9
3	*2417.00	104.1 PK			1.45 V	25	106.0	-1.9
4	*2417.00	103.5 AV			1.45 V	25	105.4	-1.9
5	4834.00	50.3 PK	74.0	-23.7	2.12 V	44	47.4	2.9
6	4834.00	49.0 AV	54.0	-5.0	2.12 V	44	46.1	2.9
7	7251.00	42.0 PK	74.0	-32.0	1.53 V	110	33.2	8.8
8	7251.00	34.3 AV	54.0	-19.7	1.53 V	110	25.5	8.8

Remarks:

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

Channel	TX Channel 6	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	2.68 H	325	57.2	-1.9
2	2390.00	43.3 AV	54.0	-10.7	2.68 H	325	45.2	-1.9
3	*2437.00	110.6 PK			2.68 H	325	112.6	-2.0
4	*2437.00	108.5 AV			2.68 H	325	110.5	-2.0
5	2483.50	53.9 PK	74.0	-20.1	2.68 H	325	55.8	-1.9
6	2483.50	42.4 AV	54.0	-11.6	2.68 H	325	44.3	-1.9
7	4874.00	50.0 PK	74.0	-24.0	1.42 H	355	47.2	2.8
8	4874.00	47.9 AV	54.0	-6.1	1.42 H	355	45.1	2.8
9	7311.00	44.4 PK	74.0	-29.6	1.54 H	321	35.5	8.9
10	7311.00	37.6 AV	54.0	-16.4	1.54 H	321	28.7	8.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	53.8 PK	74.0	-20.2	1.47 V	26	55.7	-1.9
2	2390.00	41.4 AV	54.0	-12.6	1.47 V	26	43.3	-1.9
3	*2437.00	106.5 PK			1.47 V	26	108.5	-2.0
4	*2437.00	104.3 AV			1.47 V	26	106.3	-2.0
5	2483.50	51.9 PK	74.0	-22.1	1.47 V	26	53.8	-1.9
6	2483.50	40.1 AV	54.0	-13.9	1.47 V	26	42.0	-1.9
7	4874.00	50.0 PK	74.0	-24.0	2.07 V	47	47.2	2.8
8	4874.00	48.7 AV	54.0	-5.3	2.07 V	47	45.9	2.8
9	7311.00	42.4 PK	74.0	-31.6	1.54 V	116	33.5	8.9
10	7311.00	34.4 AV	54.0	-19.6	1.54 V	116	25.5	8.9

Remarks:

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

Channel	TX Channel 10	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	111.0 PK			2.65 H	308	112.9	-1.9
2	*2457.00	108.7 AV			2.65 H	308	110.6	-1.9
3	2483.50	53.4 PK	74.0	-20.6	2.65 H	308	55.3	-1.9
4	2483.50	42.1 AV	54.0	-11.9	2.65 H	308	44.0	-1.9
5	4914.00	50.1 PK	74.0	-23.9	1.49 H	353	47.4	2.7
6	4914.00	48.3 AV	54.0	-5.7	1.49 H	353	45.6	2.7
7	7371.00	44.7 PK	74.0	-29.3	1.51 H	314	35.8	8.9
8	7371.00	37.8 AV	54.0	-16.2	1.51 H	314	28.9	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	107.0 PK			1.46 V	34	108.9	-1.9
2	*2457.00	104.0 AV			1.46 V	34	105.9	-1.9
3	2483.50	49.6 PK	74.0	-24.4	1.46 V	34	51.5	-1.9
4	2483.50	38.9 AV	54.0	-15.1	1.46 V	34	40.8	-1.9
5	4914.00	50.2 PK	74.0	-23.8	2.07 V	34	47.5	2.7
6	4914.00	48.9 AV	54.0	-5.1	2.07 V	34	46.2	2.7
7	7371.00	42.4 PK	74.0	-31.6	1.50 V	120	33.5	8.9
8	7371.00	34.6 AV	54.0	-19.4	1.50 V	120	25.7	8.9

Remarks:

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

Channel	TX Channel 11	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.6 PK			2.70 H	318	112.5	-1.9
2	*2462.00	108.3 AV			2.70 H	318	110.2	-1.9
3	2483.50	54.8 PK	74.0	-19.2	2.70 H	318	56.7	-1.9
4	2483.50	43.5 AV	54.0	-10.5	2.70 H	318	45.4	-1.9
5	4924.00	50.0 PK	74.0	-24.0	1.43 H	340	47.3	2.7
6	4924.00	48.1 AV	54.0	-5.9	1.43 H	340	45.4	2.7
7	7386.00	44.7 PK	74.0	-29.3	1.54 H	327	35.7	9.0
8	7386.00	37.7 AV	54.0	-16.3	1.54 H	327	28.7	9.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.5 PK			1.47 V	19	108.4	-1.9
2	*2462.00	103.9 AV			1.47 V	19	105.8	-1.9
3	2483.50	54.1 PK	74.0	-19.9	1.47 V	19	56.0	-1.9
4	2483.50	41.7 AV	54.0	-12.3	1.47 V	19	43.6	-1.9
5	4924.00	49.9 PK	74.0	-24.1	2.04 V	46	47.2	2.7
6	4924.00	48.5 AV	54.0	-5.5	2.04 V	46	45.8	2.7
7	7386.00	42.4 PK	74.0	-31.6	1.50 V	127	33.4	9.0
8	7386.00	34.4 AV	54.0	-19.6	1.50 V	127	25.4	9.0

Remarks:

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

Channel	TX Channel 12	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	102.4 PK			2.71 H	322	104.3	-1.9
2	*2467.00	99.6 AV			2.71 H	322	101.5	-1.9
3	2484.26	59.1 PK	74.0	-14.9	2.71 H	322	61.0	-1.9
4	2484.26	53.9 AV	54.0	-0.1	2.71 H	322	55.8	-1.9
5	4934.00	45.8 PK	74.0	-28.2	1.41 H	339	43.1	2.7
6	4934.00	44.5 AV	54.0	-9.5	1.41 H	339	41.8	2.7
7	7401.00	40.5 PK	74.0	-33.5	1.51 H	322	31.6	8.9
8	7401.00	33.7 AV	54.0	-20.3	1.51 H	322	24.8	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	97.8 PK			1.53 V	16	99.7	-1.9
2	*2467.00	96.6 AV			1.53 V	16	98.5	-1.9
3	2484.36	53.5 PK	74.0	-20.5	1.53 V	16	55.4	-1.9
4	2484.36	43.4 AV	54.0	-10.6	1.53 V	16	45.3	-1.9
5	4934.00	46.5 PK	74.0	-27.5	2.26 V	47	43.8	2.7
6	4934.00	44.8 AV	54.0	-9.2	2.26 V	47	42.1	2.7
7	7401.00	37.7 PK	74.0	-36.3	1.45 V	139	28.8	8.9
8	7401.00	30.6 AV	54.0	-23.4	1.45 V	139	21.7	8.9

Remarks:

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

Channel	TX Channel 13	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	98.7 PK			2.82 H	315	100.6	-1.9
2	*2472.00	96.2 AV			2.82 H	315	98.1	-1.9
3	2484.70	59.5 PK	74.0	-14.5	2.82 H	315	61.4	-1.9
4	2484.70	53.5 AV	54.0	-0.5	2.82 H	315	55.4	-1.9
5	4944.00	43.6 PK	74.0	-30.4	1.45 H	330	40.8	2.8
6	4944.00	41.2 AV	54.0	-12.8	1.45 H	330	38.4	2.8
7	7416.00	40.3 PK	74.0	-33.7	1.51 H	336	31.3	9.0
8	7416.00	30.5 AV	54.0	-23.5	1.51 H	336	21.5	9.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	93.7 PK			1.50 V	17	95.6	-1.9
2	*2472.00	91.9 AV			1.50 V	17	93.8	-1.9
3	2484.73	54.6 PK	74.0	-19.4	1.50 V	17	56.5	-1.9
4	2484.73	45.8 AV	54.0	-8.2	1.50 V	17	47.7	-1.9
5	4944.00	41.4 PK	74.0	-32.6	2.27 V	45	38.6	2.8
6	4944.00	40.9 AV	54.0	-13.1	2.27 V	45	38.1	2.8
7	7416.00	38.9 PK	74.0	-35.1	1.54 V	112	29.9	9.0
8	7416.00	28.5 AV	54.0	-25.5	1.54 V	112	19.5	9.0

Remarks:

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

802.11g

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	71.6 PK	74.0	-2.4	2.89 H	310	73.5	-1.9
2	2390.00	53.8 AV	54.0	-0.2	2.89 H	310	55.7	-1.9
3	*2412.00	113.5 PK			2.89 H	310	115.4	-1.9
4	*2412.00	105.0 AV			2.89 H	310	106.9	-1.9
5	4824.00	55.7 PK	74.0	-18.3	3.53 H	40	52.8	2.9
6	4824.00	43.7 AV	54.0	-10.3	3.53 H	40	40.8	2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.4 PK	74.0	-15.6	1.50 V	20	60.3	-1.9
2	2390.00	46.3 AV	54.0	-7.7	1.50 V	20	48.2	-1.9
3	*2412.00	107.4 PK			1.50 V	20	109.3	-1.9
4	*2412.00	98.7 AV			1.50 V	20	100.6	-1.9
5	4824.00	54.9 PK	74.0	-19.1	3.95 V	75	52.0	2.9
6	4824.00	44.1 AV	54.0	-9.9	3.95 V	75	41.2	2.9

Remarks:

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

Channel	TX Channel 2	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	70.4 PK	74.0	-3.6	2.74 H	321	72.3	-1.9
2	2390.00	53.7 AV	54.0	-0.3	2.74 H	321	55.6	-1.9
3	*2417.00	114.3 PK			2.74 H	321	116.2	-1.9
4	*2417.00	105.9 AV			2.74 H	321	107.8	-1.9
5	4834.00	55.5 PK	74.0	-18.5	3.57 H	46	52.6	2.9
6	4834.00	43.7 AV	54.0	-10.3	3.57 H	46	40.8	2.9
7	7251.00	48.4 PK	74.0	-25.6	1.97 H	332	39.6	8.8
8	7251.00	37.3 AV	54.0	-16.7	1.97 H	332	28.5	8.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.1 PK	74.0	-13.9	1.55 V	32	62.0	-1.9
2	2390.00	46.7 AV	54.0	-7.3	1.55 V	32	48.6	-1.9
3	*2417.00	108.3 PK			1.55 V	32	110.2	-1.9
4	*2417.00	99.2 AV			1.55 V	32	101.1	-1.9
5	4834.00	54.6 PK	74.0	-19.4	3.93 V	71	51.7	2.9
6	4834.00	43.6 AV	54.0	-10.4	3.93 V	71	40.7	2.9
7	7251.00	47.3 PK	74.0	-26.7	1.31 V	176	38.5	8.8
8	7251.00	35.4 AV	54.0	-18.6	1.31 V	176	26.6	8.8

Remarks:

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

Channel	TX Channel 6	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	2.80 H	315	67.0	-1.9
2	2390.00	53.8 AV	54.0	-0.2	2.80 H	315	55.7	-1.9
3	*2437.00	115.2 PK			2.80 H	315	117.2	-2.0
4	*2437.00	106.8 AV			2.80 H	315	108.8	-2.0
5	2483.50	60.4 PK	74.0	-13.6	2.80 H	315	62.3	-1.9
6	2483.50	50.2 AV	54.0	-3.8	2.80 H	315	52.1	-1.9
7	4874.00	55.7 PK	74.0	-18.3	3.62 H	46	52.9	2.8
8	4874.00	44.2 AV	54.0	-9.8	3.62 H	46	41.4	2.8
9	7311.00	48.8 PK	74.0	-25.2	1.91 H	334	39.9	8.9
10	7311.00	37.7 AV	54.0	-16.3	1.91 H	334	28.8	8.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.3 PK	74.0	-13.7	1.46 V	15	62.2	-1.9
2	2390.00	48.4 AV	54.0	-5.6	1.46 V	15	50.3	-1.9
3	*2437.00	109.6 PK			1.46 V	15	111.6	-2.0
4	*2437.00	100.9 AV			1.46 V	15	102.9	-2.0
5	2483.50	57.2 PK	74.0	-16.8	1.46 V	15	59.1	-1.9
6	2483.50	46.3 AV	54.0	-7.7	1.46 V	15	48.2	-1.9
7	4874.00	54.8 PK	74.0	-19.2	3.94 V	72	52.0	2.8
8	4874.00	44.1 AV	54.0	-9.9	3.94 V	72	41.3	2.8
9	7311.00	47.1 PK	74.0	-26.9	1.34 V	170	38.2	8.9
10	7311.00	36.6 AV	54.0	-17.4	1.34 V	170	27.7	8.9

Remarks:

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

Channel	TX Channel 10	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	112.4 PK			2.76 H	322	114.3	-1.9
2	*2457.00	105.2 AV			2.76 H	322	107.1	-1.9
3	2483.50	64.3 PK	74.0	-9.7	2.76 H	322	66.2	-1.9
4	2483.50	53.5 AV	54.0	-0.5	2.76 H	322	55.4	-1.9
5	4914.00	55.7 PK	74.0	-18.3	3.57 H	44	53.0	2.7
6	4914.00	43.9 AV	54.0	-10.1	3.57 H	44	41.2	2.7
7	7371.00	48.7 PK	74.0	-25.3	1.94 H	342	39.8	8.9
8	7371.00	37.8 AV	54.0	-16.2	1.94 H	342	28.9	8.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	108.0 PK			1.50 V	20	109.9	-1.9
2	*2457.00	98.6 AV			1.50 V	20	100.5	-1.9
3	2483.50	61.6 PK	74.0	-12.4	1.50 V	20	63.5	-1.9
4	2483.50	48.4 AV	54.0	-5.6	1.50 V	20	50.3	-1.9
5	4914.00	54.5 PK	74.0	-19.5	3.97 V	64	51.8	2.7
6	4914.00	43.7 AV	54.0	-10.3	3.97 V	64	41.0	2.7
7	7371.00	46.6 PK	74.0	-27.4	1.31 V	185	37.7	8.9
8	7371.00	34.9 AV	54.0	-19.1	1.31 V	185	26.0	8.9

Remarks:

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

Channel	TX Channel 11	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.8 PK			2.64 H	314	113.7	-1.9
2	*2462.00	104.8 AV			2.64 H	314	106.7	-1.9
3	2483.50	66.1 PK	74.0	-7.9	2.64 H	314	68.0	-1.9
4	2483.50	51.5 AV	54.0	-2.5	2.64 H	314	53.4	-1.9
5	4924.00	55.7 PK	74.0	-18.3	3.52 H	55	53.0	2.7
6	4924.00	43.7 AV	54.0	-10.3	3.52 H	55	41.0	2.7
7	7386.00	47.8 PK	74.0	-26.2	1.90 H	334	38.8	9.0
8	7386.00	36.7 AV	54.0	-17.3	1.90 H	334	27.7	9.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	108.2 PK			1.52 V	26	110.1	-1.9
2	*2462.00	97.9 AV			1.52 V	26	99.8	-1.9
3	2483.50	59.3 PK	74.0	-14.7	1.52 V	26	61.2	-1.9
4	2483.50	48.6 AV	54.0	-5.4	1.52 V	26	50.5	-1.9
5	4924.00	55.0 PK	74.0	-19.0	3.96 V	76	52.3	2.7
6	4924.00	44.0 AV	54.0	-10.0	3.96 V	76	41.3	2.7
7	7386.00	45.1 PK	74.0	-28.9	1.29 V	160	36.1	9.0
8	7386.00	33.5 AV	54.0	-20.5	1.29 V	160	24.5	9.0

Remarks:

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

Channel	TX Channel 12	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	109.4 PK			2.85 H	315	111.3	-1.9
2	*2467.00	102.2 AV			2.85 H	315	104.1	-1.9
3	2484.18	64.6 PK	74.0	-9.4	2.85 H	315	66.5	-1.9
4	2484.18	53.6 AV	54.0	-0.4	2.85 H	315	55.5	-1.9
5	2485.72	68.8 PK	74.0	-5.2	2.85 H	315	70.7	-1.9
6	2485.72	50.5 AV	54.0	-3.5	2.85 H	315	52.4	-1.9
7	4934.00	54.2 PK	74.0	-19.8	3.54 H	40	51.5	2.7
8	4934.00	40.3 AV	54.0	-13.7	3.54 H	40	37.6	2.7
9	7401.00	42.3 PK	74.0	-31.7	1.93 H	339	33.4	8.9
10	7401.00	29.6 AV	54.0	-24.4	1.93 H	339	20.7	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	101.9 PK			1.54 V	23	103.8	-1.9
2	*2467.00	93.4 AV			1.54 V	23	95.3	-1.9
3	2483.50	60.3 PK	74.0	-13.7	1.54 V	23	62.2	-1.9
4	2483.50	46.5 AV	54.0	-7.5	1.54 V	23	48.4	-1.9
5	4934.00	53.7 PK	74.0	-20.3	4.00 V	90	51.0	2.7
6	4934.00	41.2 AV	54.0	-12.8	4.00 V	90	38.5	2.7
7	7401.00	42.5 PK	74.0	-31.5	1.30 V	169	33.6	8.9
8	7401.00	30.8 AV	54.0	-23.2	1.30 V	169	21.9	8.9

Remarks:

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

Channel	TX Channel 13	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	105.1 PK			2.89 H	309	107.0	-1.9
2	*2472.00	97.0 AV			2.89 H	309	98.9	-1.9
3	2484.54	65.4 PK	74.0	-8.6	2.89 H	309	67.3	-1.9
4	2484.54	53.8 AV	54.0	-0.2	2.89 H	309	55.7	-1.9
5	4944.00	52.1 PK	74.0	-21.9	3.67 H	57	49.3	2.8
6	4944.00	39.7 AV	54.0	-14.3	3.67 H	57	36.9	2.8
7	7416.00	40.1 PK	74.0	-33.9	1.92 H	359	31.1	9.0
8	7416.00	28.5 AV	54.0	-25.5	1.92 H	359	19.5	9.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	96.5 PK			1.51 V	25	98.4	-1.9
2	*2472.00	89.2 AV			1.51 V	25	91.1	-1.9
3	2484.36	56.0 PK	74.0	-18.0	1.51 V	25	57.9	-1.9
4	2484.36	45.2 AV	54.0	-8.8	1.51 V	25	47.1	-1.9
5	4944.00	52.1 PK	74.0	-21.9	3.97 V	79	49.3	2.8
6	4944.00	40.2 AV	54.0	-13.8	3.97 V	79	37.4	2.8
7	7416.00	39.9 PK	74.0	-34.1	1.31 V	150	30.9	9.0
8	7416.00	28.9 AV	54.0	-25.1	1.31 V	150	19.9	9.0

Remarks:

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

802.11ax (HE20)

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	72.6 PK	74.0	-1.4	2.80 H	308	74.5	-1.9
2	2390.00	53.5 AV	54.0	-0.5	2.80 H	308	55.4	-1.9
3	*2412.00	112.8 PK			2.80 H	308	114.7	-1.9
4	*2412.00	105.4 AV			2.80 H	308	107.3	-1.9
5	4824.00	55.9 PK	74.0	-18.1	3.48 H	28	53.0	2.9
6	4824.00	43.7 AV	54.0	-10.3	3.48 H	28	40.8	2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.6 PK	74.0	-8.4	1.51 V	19	67.5	-1.9
2	2390.00	48.3 AV	54.0	-5.7	1.51 V	19	50.2	-1.9
3	*2412.00	108.8 PK			1.51 V	19	110.7	-1.9
4	*2412.00	97.6 AV			1.51 V	19	99.5	-1.9
5	4824.00	54.7 PK	74.0	-19.3	3.95 V	60	51.8	2.9
6	4824.00	44.0 AV	54.0	-10.0	3.95 V	60	41.1	2.9

Remarks:

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