

Partial FCC Test Report

Report No.: RF200109C11-1

FCC ID: J9C-QCNFA524

Test Model: QCNFA524

Received Date: Oct. 21, 2019

Test Date: Dec. 26, 2019 ~ Feb. 26, 2020

Issued Date: Feb. 27, 2020

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200109C11-1	Original release	Feb. 27, 2020

1 Certificate of Conformity

Product: Wi-Fi 6 + BT 5.1 M.2 1216 Module

Brand: Qualcomm

Test Model: QCNFA524

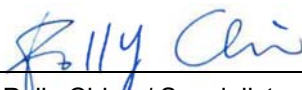
Sample Status: Engineering Sample

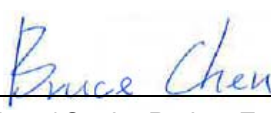
Applicant: Qualcomm Technologies, Inc.

Test Date: Dec. 26, 2019 ~ Feb. 26, 2020

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

This report is issued as a supplementary report of RF190716E01-7. This report shall be used combined together with its original report.

Prepared by : , **Date:** Feb. 27, 2020
Polly Chien / Specialist

Approved by : , **Date:** Feb. 27, 2020
Bruce Chen / Senior Project Engineer

Note: Radiated emission, conducted emission and Maximum Peak Output Power are performed for the addendum. Refer to original report for the other test data.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -10.83dB at 0.17346MHz.
15.407(b)(1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.9dB at 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	N/A	Refer to Note
---	Occupied Bandwidth Measurement	N/A	Refer to Note
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX NGFF not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

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

Note: Radiated emission, conducted emission and Maximum Conducted power are performed for the addendum. Refer to original report for the other test data.

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	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wi-Fi 6 + BT 5.1 M.2 1216 Module
Brand	Qualcomm
Test Model	QCNFA524
Sample Status	Engineering Sample
Nominal Voltage	3.3Vdc (from host equipment)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps 802.11ax: up to 1201.0Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz
Number of Channel	5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5180~5240MHz: 110.544mW 5260~5320MHz: 110.291mW 5500~5720MHz: 111.695mW 5745~5825MHz: 126.894mW
Antenna Type	Refer to note
Antenna Connector	I-PEX NGFF
Accessory Device	NA
Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. This is a supplementary report of RF190716E01-7. The difference compared with original report is adding End-product (Portable Computer, Brand: DELL, Model: P92F). Therefore, test item of radiated emission and conducted emission were performed for this addendum. Refer to original report for the other test data.
2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX
802.11ax (HE20)	2TX
802.11ax (HE40)	2TX
802.11ax (HE80)	2TX

* For all test items except conducted output power, the modulation and bandwidth are similar for 802.11n mode for HT20 / HT40, 802.11ac mode for VHT20 / VHT40 / VHT80 and 802.11ax mode for HE20 / HE40 / HE80, therefore the investigated were worst case to representative mode in test report. (Final test mode refer section 3.2.1).

3. The following antennas were provided to the EUT.

Main Antenna Model	Aux. Antenna Model	Type	Antenna Manufacturer	Maximum Gain (dBi)			
				2.400-2.500 GHz	5.150-5.350 GHz	5.470-5.725 GHz	5.725-5.850 GHz
025.901LS.0021 (F.0G.FS-6086-001-00)	025.901LT.0021 (F.0G.FS-6086-002-00)	Slot	Speed	1.36	0.31	1.57	1.56
025.901LS.0001 (81ELAS15.G41)	025.901LT.0001 (81ELAS15.G42)	Slot	Wistron Neweb Corporation	1.38	0.35	1.62	1.69

4. The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Product Name	Brand Name	Model No.	Description
Portable Computer	DELL	P92F	-

The following accessories were for the End-product.

Product Name	Brand Name	Model No.	Description
Battery	DELL	XG4K6	Rating: 11.4Vdc, 8071mAh
Adapter	DELL	HA130PM170	I/P: 100-240Vac, 1.8A, 50-60 Hz, O/P: 5Vdc / 20Vdc / 1A / 6.5A 1.8m cable without core attached on adapter

3.2 Description of Test Modes

5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
42	5210MHz

5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
58	5290MHz

5500~5720MHz:

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz		

5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	Power	
-	√	√	√	√	-

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

Note: 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-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.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	36.0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS4
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS4
	802.11ax (HE80)		42	42	OFDMA	MCS4
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	36.0
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS4
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS4
	802.11ax (HE80)		58	58	OFDMA	MCS4
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	36.0
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS4
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS4
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS4
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	36.0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS4
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS4
	802.11ax (HE80)		155	155	OFDMA	MCS4

Radiated Emission Test (Below 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11ax (HE40)	5745-5825	151 to 159	151	OFDMA	MCS4

Power Line Conducted Emission Test:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11ax (HE40)	5745-5825	151 to 159	151	OFDMA	MCS4

Maximum Output Power Measurement:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 44, 48	OFDM	36.0
	802.11ac (VHT20)		36 to 48	36, 40, 44, 48	OFDM	MCS4
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	MCS4
	802.11ac (VHT80)		42	42	OFDM	MCS4
	802.11ax (HE20)		36 to 48	36, 40, 44, 48	OFDMA	MCS4
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS4
	802.11ax (HE80)		42	42	OFDMA	MCS4
-	802.11a	5260-5320	52 to 64	52, 56, 60, 64	OFDM	36.0
	802.11ac (VHT20)		52 to 64	52, 56, 60, 64	OFDM	MCS4
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	MCS4
	802.11ac (VHT80)		58	58	OFDM	MCS4
	802.11ax (HE20)		52 to 64	52, 56, 60, 64	OFDMA	MCS4
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS4
	802.11ax (HE80)		58	58	OFDMA	MCS4
-	802.11a	5500-5720	100 to 144	100, 116, 120, 140, 144	OFDM	36.0
	802.11ac (VHT20)		100 to 144	100, 116, 120, 140, 144	OFDM	MCS4
	802.11ac (VHT40)		102 to 142	102, 110, 118, 126, 134, 142	OFDM	MCS4
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	MCS4
	802.11ax (HE20)		100 to 144	100, 116, 120, 140, 144	OFDMA	MCS4
	802.11ax (HE40)		102 to 142	102, 110, 118, 126, 134, 142	OFDMA	MCS4
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS4
-	802.11a	5745-5825	149 to 165	149, 153, 157, 161, 165	OFDM	36.0
	802.11ac (VHT20)		149 to 165	149, 153, 157, 161, 165	OFDM	MCS4
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	MCS4
	802.11ac (VHT80)		155	155	OFDM	MCS4
	802.11ax (HE20)		149 to 165	149, 153, 157, 161, 165	OFDMA	MCS4
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS4
	802.11ax (HE80)		155	155	OFDMA	MCS4

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE $\geq$ 1G	22deg. C, 66%RH	120Vac, 60Hz	Han Wu, Greg Lin
RE<1G	22deg. C, 66%RH	120Vac, 60Hz	Han Wu
PLC	25deg. C, 75%RH	120Vac, 60Hz	Greg Lin
Power	25deg. C, 60%RH	120Vac, 60Hz	Jisong Wang

3.3 Description of Support Units

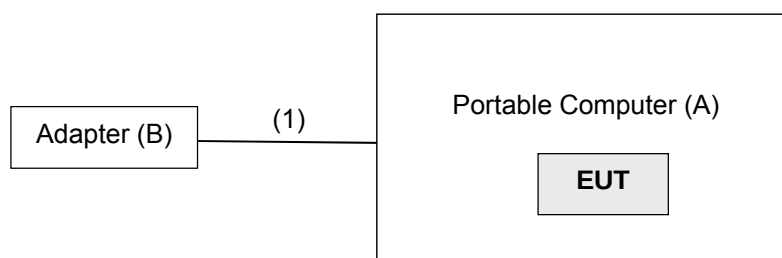
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Portable Computer	DELL	P92F	NA	FCC DoC Approved	-
B.	Adapter	DELL	HA130PM170	NA	NA	-

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Power cable	1	1.8	-	0	Provided by manufacturer

3.3.1 Configuration of System under Test



3.4 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 E (15.407)

ANSI C63.10-2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules 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.

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.

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v02r01			Field Strength at 3m	
			PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.			^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.			^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 15, 2019	Apr. 14, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 04, 2019	Jun. 03, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jul. 11, 2019	Jul. 10, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 19, 2019	Feb. 18, 2020
			Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM- SM8000	CABLE-CH9-02 (248780+171006)	Jan. 19, 2019	Jan. 18, 2020
			Jan. 18, 2020	Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9- (250795/4)	Jul. 11, 2019	Jul. 10, 2020
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 30, 2019	Jul. 29, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz- 40GHz) EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

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

Note:

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

For Radiated emission above 30MHz

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

Note:

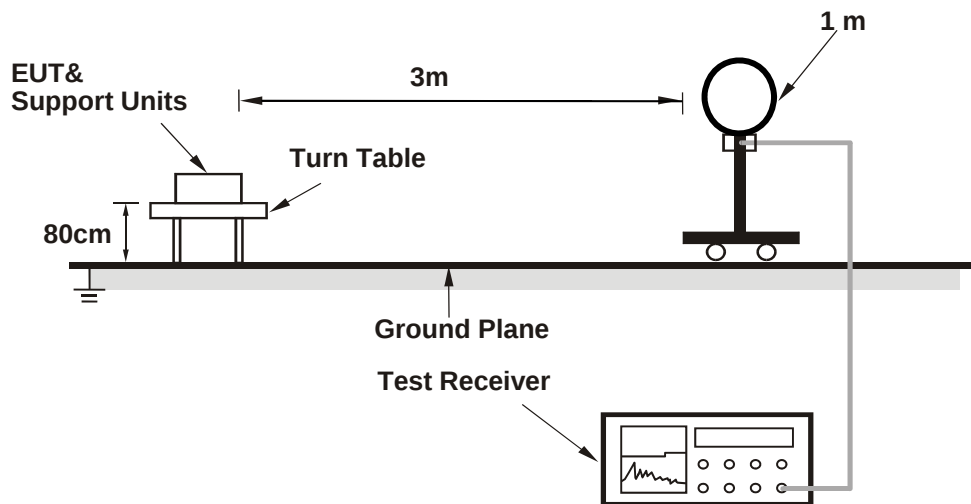
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
(802.11ac (VTH20): RBW = 1 MHz, VBW = 10 Hz; 802.11ac (VHT40): RBW = 1 MHz, VBW = 10 Hz;
802.11ac (VHT80): RBW = 1 MHz, VBW = 1 kHz; 802.11ax (HE20): RBW = 1 MHz, VBW = 10 Hz;
802.11ax (HE40): RBW = 1 MHz, VBW = 10 Hz; 802.11ax (HE80): RBW = 1 MHz, VBW = 1 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

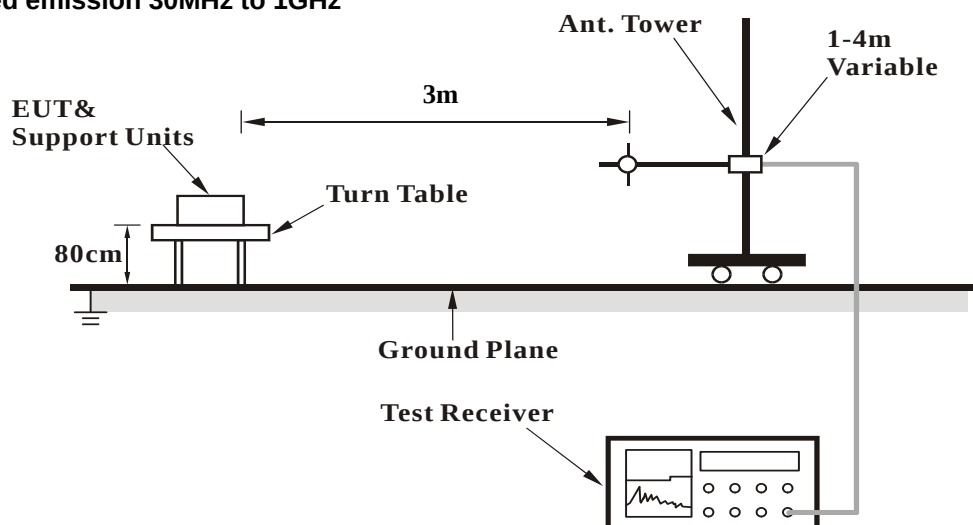
No deviation.

4.1.5 Test Set Up

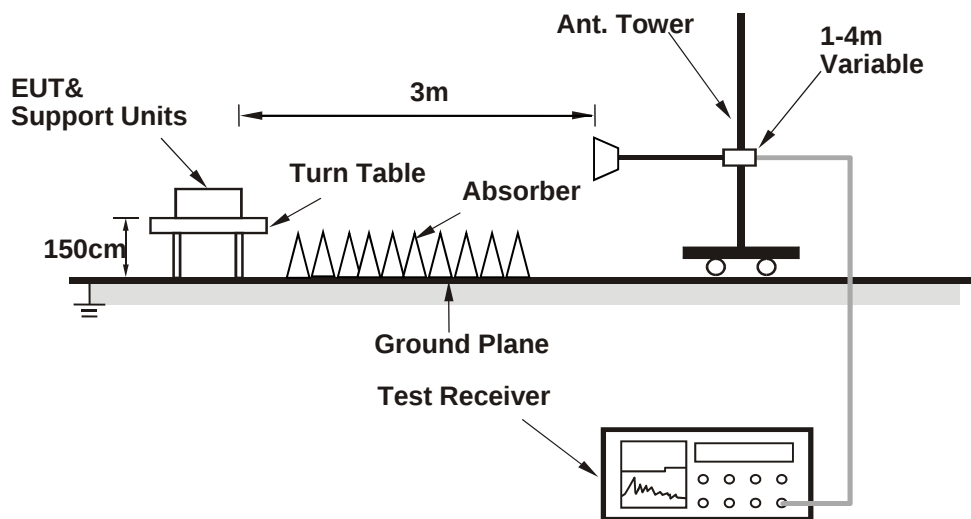
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- Installed the EUT into the Portable Computer which is placed on the testing table.
- Controlling software (provided by manufacturer) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

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	58.6 PK	74.0	-15.4	3.92 H	16	56.7	1.9
2	5150.00	46.7 AV	54.0	-7.3	3.92 H	16	44.8	1.9
3	*5180.00	107.5 PK			3.94 H	13	71.2	36.3
4	*5180.00	83.7 AV			3.94 H	13	47.4	36.3
5	#10360.00	58.9 PK	68.2	-9.3	3.42 H	325	44.0	14.9
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	57.8 PK	74.0	-16.2	1.04 V	272	53.9	3.9
2	5150.00	45.8 AV	54.0	-8.2	1.04 V	272	41.9	3.9
3	*5180.00	106.4 PK			1.00 V	258	68.1	38.3
4	*5180.00	82.1 AV			1.00 V	258	43.8	38.3
5	#10360.00	57.9 PK	68.2	-10.3	1.43 V	287	41.3	16.6

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 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	106.7 PK			3.68 H	4	68.6	38.1
2	*5200.00	82.6 AV			3.68 H	4	44.5	38.1
3	#10400.00	58.3 PK	68.2	-9.9	3.43 H	315	41.6	16.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	106.1 PK			1.13 V	274	68.0	38.1
2	*5200.00	81.6 AV			1.13 V	274	43.5	38.1
3	#10400.00	58.4 PK	68.2	-9.8	1.26 V	290	41.7	16.7

Remarks:

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

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	107.7 PK			3.75 H	357	69.6	38.1
2	*5240.00	83.0 AV			3.75 H	357	44.9	38.1
3	5350.00	58.6 PK	74.0	-15.4	3.67 H	357	54.8	3.8
4	5350.00	47.2 AV	54.0	-6.8	3.67 H	357	43.4	3.8
5	#10480.00	58.8 PK	68.2	-9.4	3.33 H	325	42.3	16.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.7 PK			1.12 V	273	68.6	38.1
2	*5240.00	81.8 AV			1.12 V	273	43.7	38.1
3	5350.00	56.9 PK	74.0	-17.1	1.13 V	273	53.1	3.8
4	5350.00	46.2 AV	54.0	-7.8	1.13 V	273	42.4	3.8
5	#10480.00	58.3 PK	68.2	-9.9	1.28 V	291	41.8	16.5

Remarks:

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

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	5150.00	56.0 PK	74.0	-18.0	3.67 H	11	52.1	3.9
2	5150.00	45.8 AV	54.0	-8.2	3.67 H	11	41.9	3.9
3	*5260.00	108.2 PK			3.75 H	357	70.1	38.1
4	*5260.00	82.6 AV			3.75 H	357	44.5	38.1
5	#10360.00	58.1 PK	68.2	-10.1	3.26 H	312	41.5	16.6
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	55.5 PK	74.0	-18.5	1.01 V	256	51.6	3.9
2	5150.00	44.7 AV	54.0	-9.3	1.01 V	256	40.8	3.9
3	*5260.00	106.5 PK			1.06 V	269	68.4	38.1
4	*5260.00	81.1 AV			1.06 V	269	43.0	38.1
5	#10520.00	57.7 PK	68.2	-10.5	1.36 V	294	41.1	16.6

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 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	108.4 PK			3.83 H	3	70.3	38.1
2	*5300.00	82.9 AV			3.83 H	3	44.8	38.1
3	10600.00	58.5 PK	74.0	-15.5	3.26 H	308	41.7	16.8
4	10600.00	44.2 AV	54.0	-9.8	3.26 H	308	27.4	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.0 PK			1.08 V	273	68.9	38.1
2	*5300.00	81.6 AV			1.08 V	273	43.5	38.1
3	10600.00	57.7 PK	74.0	-16.3	1.37 V	295	40.9	16.8
4	10600.00	43.5 AV	54.0	-10.5	1.37 V	295	26.7	16.8

Remarks:

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

CHANNEL	TX Channel 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	107.4 PK			3.78 H	15	69.3	38.1
2	*5320.00	82.2 AV			3.78 H	15	44.1	38.1
3	5350.00	55.6 PK	74.0	-18.4	3.72 H	3	51.8	3.8
4	5350.00	45.3 AV	54.0	-8.7	3.72 H	3	41.5	3.8
5	10640.00	58.4 PK	74.0	-15.6	3.37 H	316	41.4	17.0
6	10640.00	44.2 AV	54.0	-9.8	3.37 H	316	27.2	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.1 PK			1.13 V	270	68.0	38.1
2	*5320.00	80.6 AV			1.13 V	270	42.5	38.1
3	5350.00	53.9 PK	74.0	-20.1	1.02 V	263	50.1	3.8
4	5350.00	43.4 AV	54.0	-10.6	1.02 V	263	39.6	3.8
5	10640.00	57.7 PK	74.0	-16.3	1.36 V	305	40.7	17.0
6	10640.00	43.5 AV	54.0	-10.5	1.36 V	305	26.5	17.0

Remarks:

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

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	54.8 PK	74.0	-19.2	3.72 H	7	50.6	4.2
2	5460.00	44.5 AV	54.0	-9.5	3.72 H	7	40.3	4.2
3	#5470.00	59.1 PK	68.2	-9.1	3.87 H	12	54.8	4.3
4	*5500.00	107.9 PK			3.96 H	18	69.2	38.7
5	*5500.00	83.0 AV			3.96 H	18	44.3	38.7
6	11000.00	59.8 PK	74.0	-14.2	3.34 H	311	41.4	18.4
7	11000.00	45.7 AV	54.0	-8.3	3.34 H	311	27.3	18.4
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	54.5 PK	74.0	-19.5	1.08 V	283	50.3	4.2
2	5460.00	43.8 AV	54.0	-10.2	1.08 V	283	39.6	4.2
3	#5470.00	56.6 PK	68.2	-11.6	1.13 V	275	52.3	4.3
4	*5500.00	107.1 PK			1.06 V	269	68.4	38.7
5	*5500.00	81.7 AV			1.06 V	269	43.0	38.7
6	11000.00	59.2 PK	74.0	-14.8	1.43 V	301	40.8	18.4
7	11000.00	45.2 AV	54.0	-8.8	1.43 V	301	26.8	18.4

Remarks:

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

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	107.4 PK			3.95 H	16	68.8	38.6
2	*5580.00	82.8 AV			3.95 H	16	44.2	38.6
3	11160.00	58.7 PK	74.0	-15.3	3.34 H	302	41.5	17.2
4	11160.00	44.6 AV	54.0	-9.4	3.34 H	302	27.4	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	106.0 PK			1.12 V	269	67.4	38.6
2	*5580.00	81.4 AV			1.12 V	269	42.8	38.6
3	11160.00	58.0 PK	74.0	-16.0	1.43 V	295	40.8	17.2
4	11160.00	43.9 AV	54.0	-10.1	1.43 V	295	26.7	17.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 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	109.5 PK			3.77 H	35	70.7	38.8
2	*5700.00	83.7 AV			3.77 H	35	44.9	38.8
3	#5725.00	62.1 PK	68.2	-6.1	3.71 H	26	57.7	4.4
4	11400.00	58.9 PK	74.0	-15.1	3.36 H	302	41.4	17.5
5	11400.00	45.0 AV	54.0	-9.0	3.36 H	302	27.5	17.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.0 PK			2.42 V	102	70.2	38.8
2	*5700.00	83.2 AV			2.42 V	102	44.4	38.8
3	#5725.00	61.7 PK	68.2	-6.5	2.51 V	113	57.3	4.4
4	11400.00	59.7 PK	74.0	-14.3	1.64 V	273	42.2	17.5
5	11400.00	45.2 AV	54.0	-8.8	1.64 V	273	27.7	17.5

Remarks:

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

CHANNEL	TX Channel 144	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	55.4 PK	68.2	-12.8	3.67 H	29	51.1	4.3
2	*5720.00	107.0 PK			3.56 H	34	68.2	38.8
3	*5720.00	82.6 AV			3.56 H	34	43.8	38.8
4	#5850.00	56.3 PK	68.2	-11.9	3.51 H	21	51.6	4.7
5	11440.00	58.9 PK	74.0	-15.1	3.24 H	290	41.7	17.2
6	11440.00	44.6 AV	54.0	-9.4	3.24 H	290	27.4	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.7 PK	68.2	-13.5	1.11 V	276	50.4	4.3
2	*5720.00	106.2 PK			1.04 V	267	67.4	38.8
3	*5720.00	81.7 AV			1.04 V	267	42.9	38.8
4	#5850.00	55.5 PK	68.2	-12.7	1.17 V	273	50.8	4.7
5	11440.00	58.1 PK	74.0	-15.9	1.51 V	302	40.9	17.2
6	11440.00	43.9 AV	54.0	-10.1	1.51 V	302	26.7	17.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 149	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	#5648.80	54.1 PK	68.2	-14.1	3.91 H	19	51.5	2.6
2	*5745.00	105.7 PK			3.91 H	19	68.4	37.3
3	*5745.00	81.2 AV			3.91 H	19	43.9	37.3
4	#5948.00	54.4 PK	68.2	-13.8	3.91 H	19	51.3	3.1
5	11490.00	57.4 PK	74.0	-16.6	3.36 H	297	41.7	15.7
6	11490.00	42.7 AV	54.0	-11.3	3.36 H	297	27.0	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.20	54.2 PK	68.2	-14.0	1.10 V	257	51.7	2.5
2	*5745.00	104.5 PK			1.10 V	257	67.2	37.3
3	*5745.00	80.1 AV			1.10 V	257	42.8	37.3
4	#5944.00	54.7 PK	68.2	-13.5	1.10 V	257	51.6	3.1
5	11490.00	56.5 PK	74.0	-17.5	1.63 V	312	40.8	15.7
6	11490.00	42.5 AV	54.0	-11.5	1.63 V	312	26.8	15.7

Remarks:

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

CHANNEL	TX Channel 157	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	#5605.60	54.3 PK	68.2	-13.9	3.93 H	21	51.9	2.4
2	*5785.00	105.9 PK			3.93 H	21	68.4	37.5
3	*5785.00	81.1 AV			3.93 H	21	43.6	37.5
4	#5942.40	55.5 PK	68.2	-12.7	3.93 H	21	52.4	3.1
5	11570.00	56.8 PK	74.0	-17.2	3.37 H	302	41.4	15.4
6	11570.00	42.7 AV	54.0	-11.3	3.37 H	302	27.3	15.4
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	#5616.00	54.1 PK	68.2	-14.1	1.05 V	273	51.6	2.5
2	*5785.00	104.7 PK			1.05 V	273	67.2	37.5
3	*5785.00	80.0 AV			1.05 V	273	42.5	37.5
4	#5990.40	55.1 PK	68.2	-13.1	1.05 V	273	52.0	3.1
5	11570.00	56.3 PK	74.0	-17.7	1.63 V	318	40.9	15.4
6	11570.00	42.1 AV	54.0	-11.9	1.63 V	318	26.7	15.4

Remarks:

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

CHANNEL	TX Channel 165	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	#5604.00	54.6 PK	68.2	-13.6	3.84 H	25	52.2	2.4
2	*5825.00	106.5 PK			3.84 H	25	69.1	37.4
3	*5825.00	81.6 AV			3.84 H	25	44.2	37.4
4	#5962.40	55.0 PK	68.2	-13.2	3.84 H	25	51.9	3.1
5	11650.00	57.0 PK	74.0	-17.0	3.22 H	302	41.7	15.3
6	11650.00	42.8 AV	54.0	-11.2	3.22 H	302	27.5	15.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.40	53.6 PK	68.2	-14.6	1.07 V	263	51.2	2.4
2	*5825.00	105.0 PK			1.07 V	263	67.6	37.4
3	*5825.00	80.6 AV			1.07 V	263	43.2	37.4
4	#5997.60	54.2 PK	68.2	-14.0	1.07 V	263	51.1	3.1
5	11650.00	56.2 PK	74.0	-17.8	1.51 V	308	40.9	15.3
6	11650.00	42.3 AV	54.0	-11.7	1.51 V	308	27.0	15.3

Remarks:

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

802.11ax (HE20)

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	62.2 PK	74.0	-11.8	3.82 H	359	58.3	3.9
2	5150.00	47.8 AV	54.0	-6.2	3.82 H	359	43.9	3.9
3	*5180.00	108.4 PK			3.80 H	1	70.1	38.3
4	*5180.00	90.5 AV			3.80 H	1	52.2	38.3
5	#10360.00	58.5 PK	68.2	-9.7	3.44 H	317	41.9	16.6
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	60.5 PK	74.0	-13.5	1.10 V	271	56.6	3.9
2	5150.00	46.5 AV	54.0	-7.5	1.10 V	271	42.6	3.9
3	*5180.00	107.2 PK			1.20 V	270	68.9	38.3
4	*5180.00	89.3 AV			1.20 V	270	51.0	38.3
5	#10360.00	58.2 PK	68.2	-10.0	1.33 V	283	41.6	16.6

Remarks:

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

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	108.5 PK			3.68 H	1	70.4	38.1
2	*5200.00	90.2 AV			3.68 H	1	52.1	38.1
3	#10400.00	58.9 PK	68.2	-9.3	3.43 H	322	42.2	16.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	106.9 PK			1.01 V	277	68.8	38.1
2	*5200.00	89.2 AV			1.01 V	277	51.1	38.1
3	#10400.00	58.4 PK	68.2	-9.8	1.32 V	296	41.7	16.7

Remarks:

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

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	108.0 PK			3.80 H	358	69.9	38.1
2	*5240.00	89.8 AV			3.80 H	358	51.7	38.1
3	5350.00	57.0 PK	74.0	-17.0	3.80 H	358	53.2	3.8
4	5350.00	46.2 AV	54.0	-7.8	3.80 H	358	42.4	3.8
5	#10480.00	59.0 PK	68.2	-9.2	3.44 H	308	42.5	16.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.7 PK			1.09 V	274	68.6	38.1
2	*5240.00	88.3 AV			1.09 V	274	50.2	38.1
3	5350.00	56.3 PK	74.0	-17.7	1.12 V	271	52.5	3.8
4	5350.00	44.7 AV	54.0	-9.3	1.12 V	271	40.9	3.8
5	#10480.00	58.4 PK	68.2	-9.8	1.38 V	284	41.9	16.5

Remarks:

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

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	5150.00	54.6 PK	74.0	-19.4	3.69 H	2	50.7	3.9
2	5150.00	44.4 AV	54.0	-9.6	3.69 H	2	40.5	3.9
3	*5260.00	110.0 PK			3.77 H	9	71.9	38.1
4	*5260.00	92.2 AV			3.77 H	9	54.1	38.1
5	#10520.00	58.4 PK	68.2	-9.8	3.32 H	327	41.8	16.6
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	54.3 PK	74.0	-19.7	1.04 V	265	50.4	3.9
2	5150.00	44.1 AV	54.0	-9.9	1.04 V	265	40.2	3.9
3	*5260.00	108.1 PK			1.07 V	278	70.0	38.1
4	*5260.00	90.4 AV			1.07 V	278	52.3	38.1
5	#10520.00	57.7 PK	68.2	-10.5	1.47 V	296	41.1	16.6

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 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	110.1 PK			3.84 H	8	72.0	38.1
2	*5300.00	92.9 AV			3.84 H	8	54.8	38.1
3	10600.00	58.4 PK	74.0	-15.6	3.21 H	315	41.6	16.8
4	10600.00	44.2 AV	54.0	-9.8	3.21 H	315	27.4	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	108.6 PK			1.12 V	287	70.5	38.1
2	*5300.00	91.0 AV			1.12 V	287	52.9	38.1
3	10600.00	57.7 PK	74.0	-16.3	1.46 V	291	40.9	16.8
4	10600.00	43.4 AV	54.0	-10.6	1.46 V	291	26.6	16.8

Remarks:

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

CHANNEL	TX Channel 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	109.1 PK			3.86 H	10	71.0	38.1
2	*5320.00	91.7 AV			3.86 H	10	53.6	38.1
3	5350.00	61.4 PK	74.0	-12.6	3.81 H	356	57.6	3.8
4	5350.00	47.2 AV	54.0	-6.8	3.81 H	356	43.4	3.8
5	10640.00	58.7 PK	74.0	-15.3	3.28 H	327	41.7	17.0
6	10640.00	44.5 AV	54.0	-9.5	3.28 H	327	27.5	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.2 PK			1.05 V	282	71.1	38.1
2	*5320.00	90.8 AV			1.05 V	282	52.7	38.1
3	5350.00	56.7 PK	74.0	-17.3	1.00 V	271	52.9	3.8
4	5350.00	45.6 AV	54.0	-8.4	1.00 V	271	41.8	3.8
5	10640.00	58.2 PK	74.0	-15.8	1.41 V	302	41.2	17.0
6	10640.00	43.8 AV	54.0	-10.2	1.41 V	302	26.8	17.0

Remarks:

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

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	57.2 PK	74.0	-16.8	3.81 H	12	53.0	4.2
2	5460.00	46.6 AV	54.0	-7.4	3.81 H	12	42.4	4.2
3	#5470.00	61.7 PK	68.2	-6.5	3.76 H	16	57.4	4.3
4	*5500.00	107.3 PK			3.89 H	28	68.6	38.7
5	*5500.00	90.1 AV			3.89 H	28	51.4	38.7
6	11000.00	60.1 PK	74.0	-13.9	3.37 H	296	41.7	18.4
7	11000.00	45.9 AV	54.0	-8.1	3.37 H	296	27.5	18.4
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	56.6 PK	74.0	-17.4	2.33 V	101	52.4	4.2
2	5460.00	45.0 AV	54.0	-9.0	2.33 V	101	40.8	4.2
3	#5470.00	61.6 PK	68.2	-6.6	2.36 V	103	57.3	4.3
4	*5500.00	106.5 PK			2.43 V	115	67.8	38.7
5	*5500.00	89.3 AV			2.43 V	115	50.6	38.7
6	11000.00	59.7 PK	74.0	-14.3	1.73 V	274	41.3	18.4
7	11000.00	45.8 AV	54.0	-8.2	1.73 V	274	27.4	18.4

Remarks:

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

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	108.3 PK			3.82 H	30	69.7	38.6
2	*5580.00	91.0 AV			3.82 H	30	52.4	38.6
3	11160.00	59.6 PK	74.0	-14.4	3.26 H	308	42.4	17.2
4	11160.00	45.4 AV	54.0	-8.6	3.26 H	308	28.2	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	107.7 PK			2.53 V	114	69.1	38.6
2	*5580.00	90.4 AV			2.53 V	114	51.8	38.6
3	11160.00	58.9 PK	74.0	-15.1	1.58 V	264	41.7	17.2
4	11160.00	44.8 AV	54.0	-9.2	1.58 V	264	27.6	17.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 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	107.1 PK			3.95 H	31	68.3	38.8
2	*5700.00	88.6 AV			3.95 H	31	49.8	38.8
3	#5725.00	62.3 PK	68.2	-5.9	3.82 H	19	57.9	4.4
4	11400.00	59.1 PK	74.0	-14.9	3.26 H	304	41.6	17.5
5	11400.00	44.9 AV	54.0	-9.1	3.26 H	304	27.4	17.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.4 PK			2.43 V	108	67.6	38.8
2	*5700.00	87.9 AV			2.43 V	108	49.1	38.8
3	#5725.00	61.6 PK	68.2	-6.6	2.34 V	97	57.2	4.4
4	11400.00	58.7 PK	74.0	-15.3	1.62 V	273	41.2	17.5
5	11400.00	44.5 AV	54.0	-9.5	1.62 V	273	27.0	17.5

Remarks:

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

CHANNEL	TX Channel 144	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	55.1 PK	68.2	-13.1	3.73 H	33	50.8	4.3
2	*5720.00	108.0 PK			3.68 H	31	69.2	38.8
3	*5720.00	91.6 AV			3.68 H	31	52.8	38.8
4	#5850.00	56.1 PK	68.2	-12.1	3.60 H	22	51.4	4.7
5	11440.00	59.0 PK	74.0	-15.0	3.29 H	312	41.8	17.2
6	11440.00	44.8 AV	54.0	-9.2	3.29 H	312	27.6	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.6 PK	68.2	-13.6	1.09 V	271	50.3	4.3
2	*5720.00	107.1 PK			1.04 V	264	68.3	38.8
3	*5720.00	90.6 AV			1.04 V	264	51.8	38.8
4	#5850.00	55.4 PK	68.2	-12.8	1.13 V	272	50.7	4.7
5	11440.00	58.0 PK	74.0	-16.0	1.61 V	293	40.8	17.2
6	11440.00	43.8 AV	54.0	-10.2	1.61 V	293	26.6	17.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 149	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	#5641.60	53.5 PK	68.2	-14.7	3.75 H	23	50.9	2.6
2	*5745.00	106.2 PK			3.75 H	23	68.9	37.3
3	*5745.00	89.9 AV			3.75 H	23	52.6	37.3
4	#5971.20	53.5 PK	68.2	-14.7	3.75 H	23	50.5	3.0
5	11490.00	57.3 PK	74.0	-16.7	3.34 H	307	41.6	15.7
6	11490.00	43.0 AV	54.0	-11.0	3.34 H	307	27.3	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5620.80	53.7 PK	68.2	-14.5	1.12 V	269	51.2	2.5
2	*5745.00	105.1 PK			1.12 V	269	67.8	37.3
3	*5745.00	88.7 AV			1.12 V	269	51.4	37.3
4	#5981.60	54.4 PK	68.2	-13.8	1.12 V	269	51.3	3.1
5	11490.00	56.6 PK	74.0	-17.4	1.52 V	306	40.9	15.7
6	11490.00	42.8 AV	54.0	-11.2	1.52 V	306	27.1	15.7

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5647.20	53.6 PK	68.2	-14.6	3.78 H	22	51.0	2.6
2	*5785.00	106.8 PK			3.78 H	22	69.3	37.5
3	*5785.00	90.7 AV			3.78 H	22	53.2	37.5
4	#5941.60	54.0 PK	68.2	-14.2	3.78 H	22	50.9	3.1
5	11570.00	57.0 PK	74.0	-17.0	3.52 H	306	41.6	15.4
6	11570.00	43.0 AV	54.0	-11.0	3.52 H	306	27.6	15.4
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	#5600.80	53.6 PK	68.2	-14.6	1.15 V	273	51.2	2.4
2	*5785.00	105.8 PK			1.15 V	273	68.3	37.5
3	*5785.00	89.4 AV			1.15 V	273	51.9	37.5
4	#5936.00	54.6 PK	68.2	-13.6	1.15 V	273	51.5	3.1
5	11570.00	56.3 PK	74.0	-17.7	1.47 V	292	40.9	15.4
6	11570.00	42.1 AV	54.0	-11.9	1.47 V	292	26.7	15.4

Remarks:

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

CHANNEL	TX Channel 165	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	#5628.80	54.2 PK	68.2	-14.0	3.74 H	24	51.7	2.5
2	*5825.00	106.2 PK			3.74 H	24	68.8	37.4
3	*5825.00	90.0 AV			3.74 H	24	52.6	37.4
4	#5995.20	54.6 PK	68.2	-13.6	3.74 H	24	51.5	3.1
5	11650.00	56.9 PK	74.0	-17.1	3.28 H	314	41.6	15.3
6	11650.00	42.7 AV	54.0	-11.3	3.28 H	314	27.4	15.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5604.00	53.6 PK	68.2	-14.6	1.11 V	263	51.2	2.4
2	*5825.00	105.2 PK			1.11 V	263	67.8	37.4
3	*5825.00	88.9 AV			1.11 V	263	51.5	37.4
4	#5959.20	54.7 PK	68.2	-13.5	1.11 V	263	51.6	3.1
5	11650.00	56.0 PK	74.0	-18.0	1.46 V	309	40.7	15.3
6	11650.00	41.9 AV	54.0	-12.1	1.46 V	309	26.6	15.3

Remarks:

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

802.11ax (HE40)

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	63.6 PK	74.0	-10.4	3.92 H	354	59.7	3.9
2	5150.00	50.1 AV	54.0	-3.9	3.92 H	354	46.2	3.9
3	*5190.00	104.9 PK			3.87 H	358	66.7	38.2
4	*5190.00	83.4 AV			3.87 H	358	45.2	38.2
5	#10380.00	58.3 PK	68.2	-9.9	3.28 H	310	41.6	16.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.5 PK	74.0	-11.5	1.14 V	276	58.6	3.9
2	5150.00	48.9 AV	54.0	-5.1	1.14 V	276	45.0	3.9
3	*5190.00	103.8 PK			1.06 V	281	65.6	38.2
4	*5190.00	82.1 AV			1.06 V	281	43.9	38.2
5	#10380.00	57.5 PK	68.2	-10.7	1.34 V	279	40.8	16.7

Remarks:

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

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	105.7 PK			3.82 H	1	67.6	38.1
2	*5230.00	83.9 AV			3.82 H	1	45.8	38.1
3	5350.00	57.0 PK	74.0	-17.0	3.75 H	358	53.2	3.8
4	5350.00	46.6 AV	54.0	-7.4	3.75 H	358	42.8	3.8
5	#10460.00	58.2 PK	68.2	-10.0	3.47 H	316	41.7	16.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	104.5 PK			1.03 V	277	66.4	38.1
2	*5230.00	82.5 AV			1.03 V	277	44.4	38.1
3	5350.00	56.7 PK	74.0	-17.3	1.07 V	274	52.9	3.8
4	5350.00	45.1 AV	54.0	-8.9	1.07 V	274	41.3	3.8
5	#10460.00	57.7 PK	68.2	-10.5	1.24 V	294	41.2	16.5

Remarks:

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

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	5150.00	56.1 PK	74.0	-17.9	3.74 H	6	52.2	3.9
2	5150.00	44.9 AV	54.0	-9.1	3.74 H	6	41.0	3.9
3	*5270.00	105.1 PK			3.82 H	13	67.0	38.1
4	*5270.00	83.4 AV			3.82 H	13	45.3	38.1
5	#10540.00	58.0 PK	68.2	-10.2	3.43 H	319	41.3	16.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.4 PK	74.0	-19.6	1.07 V	266	50.5	3.9
2	5150.00	43.6 AV	54.0	-10.4	1.07 V	266	39.7	3.9
3	*5270.00	103.6 PK			1.03 V	271	65.5	38.1
4	*5270.00	82.2 AV			1.03 V	271	44.1	38.1
5	#10540.00	57.3 PK	74.0	-16.7	1.46 V	301	40.6	16.7

Remarks:

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

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	103.7 PK			3.81 H	19	65.6	38.1
2	*5310.00	82.1 AV			3.81 H	19	44.0	38.1
3	5350.00	65.9 PK	74.0	-8.1	3.87 H	18	62.1	3.8
4	5350.00	49.1 AV	54.0	-4.9	3.87 H	18	45.3	3.8
5	10620.00	58.3 PK	74.0	-15.7	3.41 H	325	41.4	16.9
6	10620.00	44.1 AV	54.0	-9.9	3.41 H	325	27.2	16.9
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	102.1 PK			1.13 V	274	64.0	38.1
2	*5310.00	80.7 AV			1.13 V	274	42.6	38.1
3	5350.00	64.2 PK	74.0	-9.8	1.03 V	267	60.4	3.8
4	5350.00	47.9 AV	54.0	-6.1	1.03 V	267	44.1	3.8
5	10620.00	57.5 PK	74.0	-16.5	1.38 V	291	40.6	16.9
6	10620.00	43.3 AV	54.0	-10.7	1.38 V	291	26.4	16.9

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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	55.6 PK	74.0	-18.4	3.76 H	23	51.4	4.2
2	5460.00	44.8 AV	54.0	-9.2	3.76 H	23	40.6	4.2
3	#5470.00	59.7 PK	68.2	-8.5	3.82 H	21	55.4	4.3
4	*5510.00	102.6 PK			3.95 H	15	64.0	38.6
5	*5510.00	82.5 AV			3.95 H	15	43.9	38.6
6	11020.00	59.5 PK	74.0	-14.5	3.29 H	312	41.4	18.1
7	11020.00	45.4 AV	54.0	-8.6	3.29 H	312	27.3	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	54.6 PK	74.0	-19.4	2.30 V	97	50.4	4.2
2	5460.00	44.0 AV	54.0	-10.0	2.30 V	97	39.8	4.2
3	#5470.00	59.0 PK	68.2	-9.2	2.27 V	94	54.7	4.3
4	*5510.00	101.8 PK			2.37 V	102	63.2	38.6
5	*5510.00	81.8 AV			2.37 V	102	43.2	38.6
6	11020.00	58.7 PK	74.0	-15.3	1.68 V	273	40.6	18.1
7	11020.00	44.8 AV	54.0	-9.2	1.68 V	273	26.7	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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	*5550.00	104.2 PK			3.90 H	17	65.6	38.6
2	*5550.00	83.4 AV			3.90 H	17	44.8	38.6
3	11100.00	58.8 PK	74.0	-15.2	3.43 H	301	41.5	17.3
4	11100.00	44.6 AV	54.0	-9.4	3.43 H	301	27.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	103.6 PK			2.36 V	113	65.0	38.6
2	*5550.00	82.9 AV			2.36 V	113	44.3	38.6
3	11100.00	58.2 PK	74.0	-15.8	1.72 V	284	40.9	17.3
4	11100.00	44.1 AV	54.0	-9.9	1.72 V	284	26.8	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 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	104.2 PK			3.76 H	30	65.5	38.7
2	*5670.00	83.4 AV			3.76 H	30	44.7	38.7
3	#5725.00	62.7 PK	68.2	-5.5	3.72 H	24	58.3	4.4
4	11340.00	59.0 PK	74.0	-15.0	3.25 H	306	41.3	17.7
5	11340.00	44.9 AV	54.0	-9.1	3.25 H	306	27.2	17.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.4 PK			2.52 V	112	64.7	38.7
2	*5670.00	82.5 AV			2.52 V	112	43.8	38.7
3	#5725.00	62.0 PK	68.2	-6.2	2.43 V	105	57.6	4.4
4	11340.00	58.2 PK	74.0	-15.8	1.62 V	276	40.5	17.7
5	11340.00	44.3 AV	54.0	-9.7	1.62 V	276	26.6	17.7

Remarks:

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

CHANNEL	TX Channel 142	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	55.6 PK	68.2	-12.6	3.73 H	24	51.3	4.3
2	*5710.00	104.9 PK			3.68 H	30	66.1	38.8
3	*5710.00	84.4 AV			3.68 H	30	45.6	38.8
4	#5850.00	56.6 PK	68.2	-11.6	3.62 H	21	51.9	4.7
5	11420.00	59.1 PK	74.0	-14.9	3.37 H	303	41.7	17.4
6	11420.00	44.9 AV	54.0	-9.1	3.37 H	303	27.5	17.4
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	54.8 PK	68.2	-13.4	1.07 V	274	50.5	4.3
2	*5710.00	104.0 PK			1.04 V	261	65.2	38.8
3	*5710.00	83.6 AV			1.04 V	261	44.8	38.8
4	#5850.00	55.7 PK	68.2	-12.5	1.13 V	265	51.0	4.7
5	11420.00	58.2 PK	74.0	-15.8	1.46 V	291	40.8	17.4
6	11420.00	44.1 AV	54.0	-9.9	1.46 V	291	26.7	17.4

Remarks:

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

CHANNEL	TX Channel 151	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	#5641.60	53.8 PK	68.2	-14.4	3.83 H	19	51.2	2.6
2	*5755.00	104.2 PK			3.83 H	19	66.9	37.3
3	*5755.00	83.1 AV			3.83 H	19	45.8	37.3
4	#5953.60	54.3 PK	68.2	-13.9	3.83 H	19	51.2	3.1
5	11510.00	57.1 PK	74.0	-16.9	3.31 H	316	41.5	15.6
6	11510.00	43.0 AV	54.0	-11.0	3.31 H	316	27.4	15.6
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	#5648.80	53.4 PK	68.2	-14.8	1.08 V	267	50.8	2.6
2	*5755.00	103.5 PK			1.08 V	267	66.2	37.3
3	*5755.00	82.5 AV			1.08 V	267	45.2	37.3
4	#5967.20	53.6 PK	68.2	-14.6	1.08 V	267	50.5	3.1
5	11510.00	56.2 PK	74.0	-17.8	1.49 V	303	40.6	15.6
6	11510.00	42.0 AV	54.0	-12.0	1.49 V	303	26.4	15.6

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 159	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	#5633.60	53.7 PK	68.2	-14.5	3.69 H	28	51.2	2.5
2	*5795.00	103.4 PK			3.69 H	28	65.9	37.5
3	*5795.00	82.2 AV			3.69 H	28	44.7	37.5
4	#5949.60	54.5 PK	68.2	-13.7	3.69 H	28	51.4	3.1
5	11590.00	56.8 PK	74.0	-17.2	3.28 H	305	41.6	15.2
6	11590.00	42.6 AV	54.0	-11.4	3.28 H	305	27.4	15.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.80	53.6 PK	68.2	-14.6	1.09 V	277	51.1	2.5
2	*5795.00	102.4 PK			1.09 V	277	64.9	37.5
3	*5795.00	81.0 AV			1.09 V	277	43.5	37.5
4	#5950.40	54.6 PK	68.2	-13.6	1.09 V	277	51.5	3.1
5	11590.00	55.9 PK	74.0	-18.1	1.62 V	312	40.7	15.2
6	11590.00	41.8 AV	54.0	-12.2	1.62 V	312	26.6	15.2

Remarks:

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

802.11ax (HE80)

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	64.5 PK	74.0	-9.5	3.96 H	357	60.6	3.9
2	5150.00	53.1 AV	54.0	-0.9	3.96 H	357	49.2	3.9
3	*5210.00	101.4 PK			3.83 H	354	63.3	38.1
4	*5210.00	79.5 AV			3.83 H	354	41.4	38.1
5	5350.00	55.6 PK	74.0	-18.4	3.79 H	352	51.8	3.8
6	5350.00	46.2 AV	54.0	-7.8	3.79 H	352	42.4	3.8
7	#10420.00	57.8 PK	68.2	-10.4	3.36 H	318	41.2	16.6
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	63.6 PK	74.0	-10.4	1.09 V	283	59.7	3.9
2	5150.00	52.0 AV	54.0	-2.0	1.09 V	283	48.1	3.9
3	*5210.00	100.4 PK			1.06 V	279	62.3	38.1
4	*5210.00	78.4 AV			1.06 V	279	40.3	38.1
5	5350.00	54.4 PK	74.0	-19.6	1.14 V	285	50.6	3.8
6	5350.00	44.1 AV	54.0	-9.9	1.14 V	285	40.3	3.8
7	#10420.00	57.2 PK	68.2	-11.0	1.37 V	287	40.6	16.6

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 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	102.5 PK			3.87 H	9	64.4	38.1
2	*5290.00	79.8 AV			3.87 H	9	41.7	38.1
3	5350.00	62.5 PK	74.0	-11.5	3.77 H	19	58.7	3.8
4	5350.00	51.4 AV	54.0	-2.6	3.77 H	19	47.6	3.8
5	#10580.00	58.0 PK	68.2	-10.2	3.35 H	312	41.2	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	101.6 PK			1.06 V	266	63.5	38.1
2	*5290.00	78.5 AV			1.06 V	266	40.4	38.1
3	5350.00	61.6 PK	74.0	-12.4	1.13 V	272	57.8	3.8
4	5350.00	50.3 AV	54.0	-3.7	1.13 V	272	46.5	3.8
5	#10580.00	57.4 PK	68.2	-10.8	1.46 V	303	40.6	16.8

Remarks:

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

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

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	57.9 PK	74.0	-16.1	3.54 H	28	53.7	4.2
2	5460.00	47.4 AV	54.0	-6.6	3.54 H	28	43.2	4.2
3	#5470.00	59.9 PK	68.2	-8.3	3.48 H	22	55.6	4.3
4	*5530.00	99.3 PK			3.61 H	32	60.7	38.6
5	*5530.00	78.0 AV			3.61 H	32	39.4	38.6
6	#5725.00	55.7 PK	68.2	-12.5	3.68 H	37	51.3	4.4
7	11060.00	59.0 PK	74.0	-15.0	3.39 H	295	41.2	17.8
8	11060.00	44.7 AV	54.0	-9.3	3.39 H	295	26.9	17.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.9 PK	74.0	-17.1	1.16 V	275	52.7	4.2
2	5460.00	46.6 AV	54.0	-7.4	1.16 V	275	42.4	4.2
3	#5470.00	59.0 PK	68.2	-9.2	1.18 V	279	54.7	4.3
4	*5530.00	98.4 PK			1.09 V	267	59.8	38.6
5	*5530.00	77.1 AV			1.09 V	267	38.5	38.6
6	#5725.00	55.0 PK	68.2	-13.2	1.03 V	264	50.6	4.4
7	11060.00	58.4 PK	74.0	-15.6	1.48 V	303	40.6	17.8
8	11060.00	44.2 AV	54.0	-9.8	1.48 V	303	26.4	17.8

Remarks:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	57.2 PK	74.0	-16.8	3.67 H	18	53.0	4.2
2	5460.00	48.8 AV	54.0	-5.2	3.67 H	18	44.6	4.2
3	#5470.00	57.9 PK	68.2	-10.3	3.63 H	20	53.6	4.3
4	*5610.00	102.2 PK			3.74 H	27	63.5	38.7
5	*5610.00	81.2 AV			3.74 H	27	42.5	38.7
6	#5725.00	55.9 PK	68.2	-12.3	3.83 H	32	51.5	4.4
7	11220.00	58.3 PK	74.0	-15.7	3.36 H	315	41.2	17.1
8	11220.00	44.8 AV	54.0	-9.2	3.36 H	315	27.7	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.9 PK	74.0	-18.1	1.13 V	287	51.7	4.2
2	5460.00	46.1 AV	54.0	-7.9	1.13 V	287	41.9	4.2
3	#5470.00	57.2 PK	68.2	-11.0	1.17 V	283	52.9	4.3
4	*5610.00	101.2 PK			1.05 V	273	62.5	38.7
5	*5610.00	80.6 AV			1.05 V	273	41.9	38.7
6	#5725.00	55.5 PK	68.2	-12.7	1.07 V	268	51.1	4.4
7	11220.00	58.0 PK	74.0	-16.0	1.43 V	294	40.9	17.1
8	11220.00	43.7 AV	54.0	-10.3	1.43 V	294	26.6	17.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 138	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	55.9 PK	68.2	-12.3	3.63 H	23	51.6	4.3
2	*5690.00	102.5 PK			3.73 H	30	63.7	38.8
3	*5690.00	81.6 AV			3.73 H	30	42.8	38.8
4	#5850.00	57.0 PK	68.2	-11.2	3.76 H	29	52.3	4.7
5	11380.00	59.2 PK	74.0	-14.8	3.23 H	304	41.6	17.6
6	11380.00	44.9 AV	54.0	-9.1	3.23 H	304	27.3	17.6
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	55.1 PK	68.2	-13.1	1.03 V	275	50.8	4.3
2	*5690.00	101.6 PK			1.06 V	265	62.8	38.8
3	*5690.00	80.5 AV			1.06 V	265	41.7	38.8
4	#5850.00	56.2 PK	68.2	-12.0	1.16 V	269	51.5	4.7
5	11380.00	58.2 PK	74.0	-15.8	1.52 V	300	40.6	17.6
6	11380.00	44.1 AV	54.0	-9.9	1.52 V	300	26.5	17.6

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 155	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	#5642.40	55.7 PK	68.2	-12.5	3.76 H	21	53.1	2.6
2	#5650.00	60.0 PK	68.2	-8.2	3.83 H	24	57.4	2.6
3	*5775.00	100.4 PK			3.76 H	21	62.9	37.5
4	*5775.00	79.2 AV			3.76 H	21	41.7	37.5
5	#5925.00	59.4 PK	68.2	-8.8	3.71 H	15	56.3	3.1
6	#5934.40	54.9 PK	68.2	-13.3	3.76 H	21	51.8	3.1
7	11550.00	56.9 PK	74.0	-17.1	3.23 H	300	41.4	15.5
8	11550.00	42.6 AV	54.0	-11.4	3.23 H	300	27.1	15.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.00	56.6 PK	68.2	-11.6	1.13 V	269	54.1	2.5
2	#5650.00	58.4 PK	68.2	-9.8	1.24 V	274	55.8	2.6
3	*5775.00	99.1 PK			1.13 V	269	61.6	37.5
4	*5775.00	78.2 AV			1.13 V	269	40.7	37.5
5	#5925.00	56.8 PK	68.2	-11.4	1.02 V	262	53.7	3.1
6	#5959.20	55.1 PK	68.2	-13.1	1.13 V	269	52.0	3.1
7	11550.00	56.2 PK	74.0	-17.8	1.51 V	297	40.7	15.5
8	11550.00	42.0 AV	54.0	-12.0	1.51 V	297	26.5	15.5

Remarks:

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

Below 1GHz Worst-Case Data:

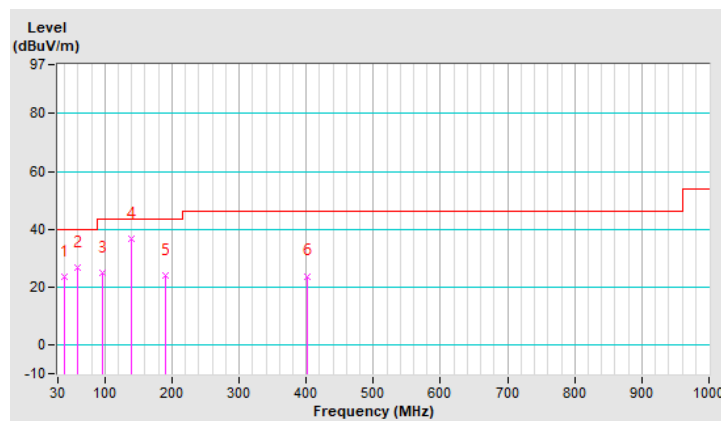
802.11ax (HE40)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.67	23.4 QP	40.0	-16.6	1.00 H	81	33.7	-10.3
2	59.10	26.6 QP	40.0	-13.4	1.00 H	150	36.6	-10.0
3	95.96	24.8 QP	43.5	-18.7	1.00 H	248	39.2	-14.4
4	139.61	36.9 QP	43.5	-6.6	1.00 H	125	46.8	-9.9
5	191.02	23.9 QP	43.5	-19.6	1.00 H	109	35.7	-11.8
6	402.48	23.8 QP	46.0	-22.2	1.00 H	202	29.5	-5.7

Remarks:

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

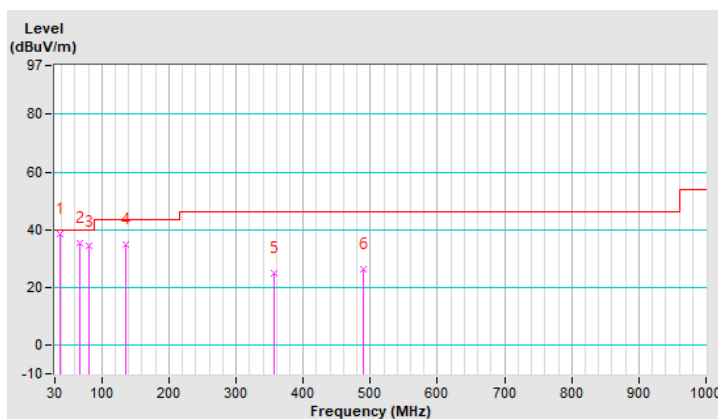


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.76	38.4 QP	40.0	-1.6	1.00 V	66	49.1	-10.7
2	66.86	35.3 QP	40.0	-4.7	1.00 V	58	46.2	-10.9
3	81.41	34.2 QP	40.0	-5.8	1.00 V	112	48.4	-14.2
4	134.76	34.8 QP	43.5	-8.7	1.00 V	217	45.1	-10.3
5	356.89	25.1 QP	46.0	-20.9	1.00 V	6	31.8	-6.7
6	489.78	26.4 QP	46.0	-19.6	1.00 V	347	30.4	-4.0

Remarks:

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Tested date: Jan. 04, 2020

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Conc_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

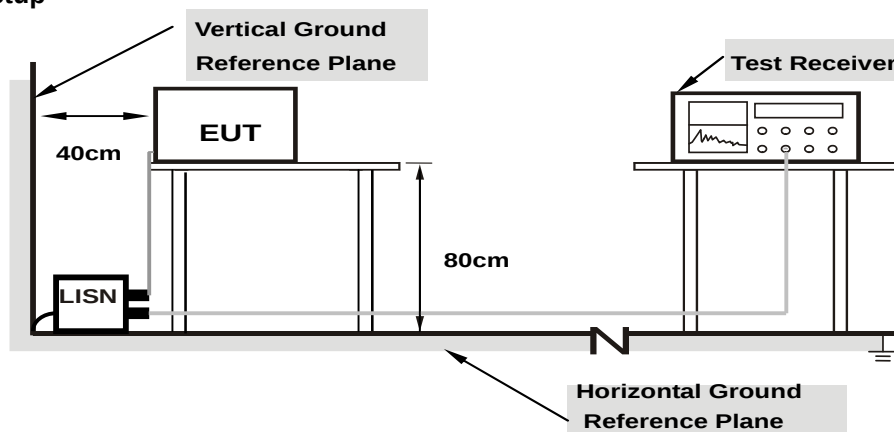
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

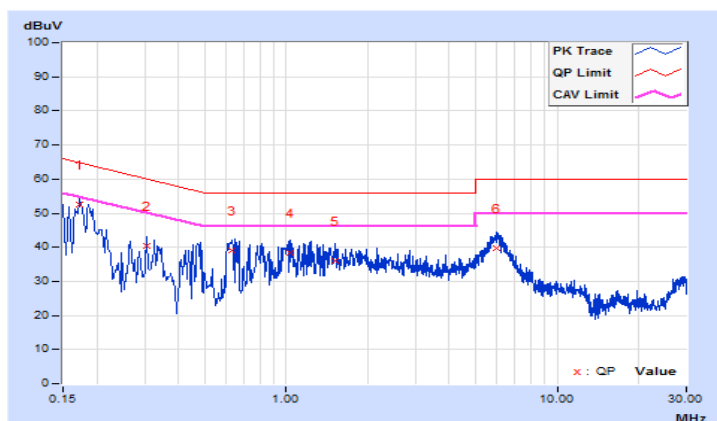
802.11ax (HE40)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	9.64	43.03	34.32	52.67	43.96	64.79	54.79	-12.12	-10.83
2	0.30640	9.65	30.84	17.27	40.49	26.92	60.07	50.07	-19.58	-23.15
3	0.63093	9.68	29.54	16.75	39.22	26.43	56.00	46.00	-16.78	-19.57
4	1.03366	9.70	28.76	18.14	38.46	27.84	56.00	46.00	-17.54	-18.16
5	1.51850	9.72	26.32	17.30	36.04	27.02	56.00	46.00	-19.96	-18.98
6	5.98372	9.83	30.05	24.61	39.88	34.44	60.00	50.00	-20.12	-15.56

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.

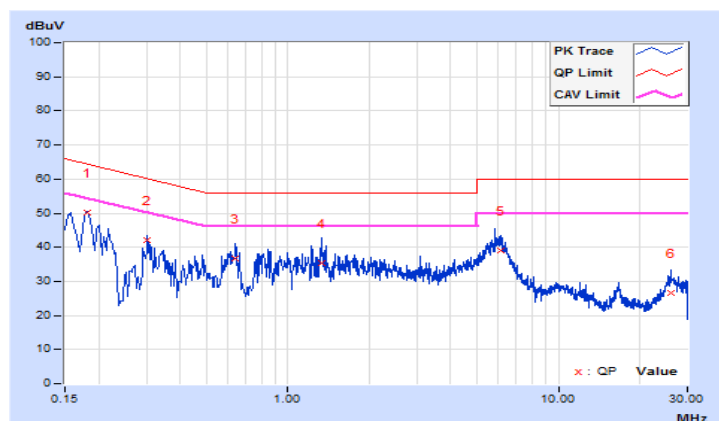


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18075	9.64	40.42	32.30	50.06	41.94	64.45	54.45	-14.39	-12.51
2	0.30249	9.65	32.33	23.47	41.98	33.12	60.17	50.17	-18.19	-17.05
3	0.63875	9.67	27.16	18.01	36.83	27.68	56.00	46.00	-19.17	-18.32
4	1.34255	9.71	25.54	18.29	35.25	28.00	56.00	46.00	-20.75	-18.00
5	6.10493	9.84	29.19	23.94	39.03	33.78	60.00	50.00	-20.97	-16.22
6	25.94427	10.04	16.43	10.55	26.47	20.59	60.00	50.00	-33.53	-29.41

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

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

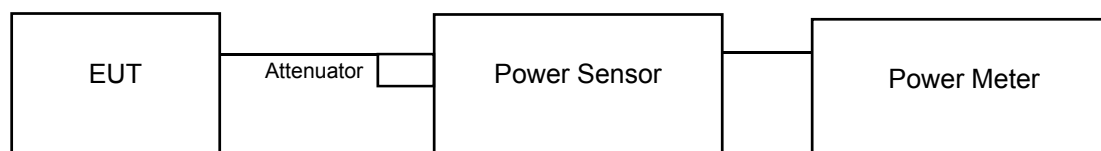
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

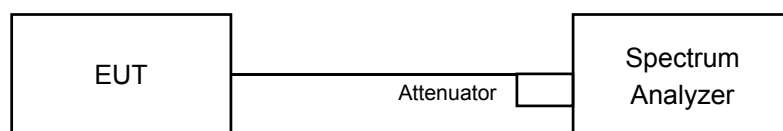
4.3.2 Test Setup

For Power Output

802.11a, 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40)



802.11ac (VHT80), 802.11ax (HE80)



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

For 802.11a, 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40):

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 and set the detector to AVERAGE. Duty factor is not added to measured value.

For 802.11ac (VHT80), 802.11ax (HE80):

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger to "free run".
- c. Set RBW = 1 MHz
- d. Set VBW $\geq$ 3 MHz
- e. Number of points in sweep $\geq$ 2 Span / RBW
- f. Sweep time $\leq$ (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS
- i. Trace mode = max hold
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- k. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.50	17.34	110.434	20.43	24.00	Pass
40	5200	17.44	17.41	110.544	20.44	24.00	Pass
44	5220	17.43	17.13	106.977	20.29	24.00	Pass
48	5240	17.24	17.07	103.899	20.17	24.00	Pass
52	5260	17.26	17.11	104.615	20.20	24.00	Pass
56	5280	17.24	17.09	104.134	20.18	24.00	Pass
60	5300	17.38	17.09	105.87	20.25	24.00	Pass
64	5320	17.24	17.06	103.782	20.16	24.00	Pass
100	5500	17.18	17.32	106.191	20.26	24.00	Pass
116	5580	17.10	17.18	103.526	20.15	24.00	Pass
120	5600	17.06	17.14	102.577	20.11	24.00	Pass
124	5620	17.05	17.14	102.46	20.11	24.00	Pass
140	5700	17.35	17.04	104.907	20.21	24.00	Pass
144	5720	17.48	17.22	108.699	20.36	24.00	Pass
149	5745	18.32	17.64	125.996	21.00	30.00	Pass
153	5765	18.28	17.60	124.842	20.96	30.00	Pass
157	5785	18.18	17.58	123.046	20.90	30.00	Pass
161	5805	18.15	17.55	122.198	20.87	30.00	Pass
165	5825	18.07	17.69	122.870	20.89	30.00	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.35	17.22	107.048	20.30	24.00	Pass
40	5200	17.40	17.44	110.417	20.43	24.00	Pass
44	5220	17.39	17.19	107.188	20.30	24.00	Pass
48	5240	17.19	17.10	103.646	20.16	24.00	Pass
52	5260	17.25	17.14	104.849	20.21	24.00	Pass
56	5280	17.22	17.10	104.009	20.17	24.00	Pass
60	5300	17.32	17.01	104.185	20.18	24.00	Pass
64	5320	17.41	17.24	108.047	20.34	24.00	Pass
100	5500	15.02	15.18	64.730	18.11	24.00	Pass
116	5580	17.25	17.12	104.611	20.20	24.00	Pass
120	5600	17.20	17.10	103.767	20.16	24.00	Pass
124	5620	17.20	17.10	103.767	20.16	24.00	Pass
140	5700	15.93	15.37	73.609	18.67	24.00	Pass
144	5720	17.36	16.83	102.645	20.11	24.00	Pass
149	5745	18.21	17.66	124.567	20.95	30.00	Pass
153	5765	18.18	17.63	123.709	20.92	30.00	Pass
157	5785	18.11	17.64	122.790	20.89	30.00	Pass
161	5805	18.08	17.61	121.946	20.86	30.00	Pass
165	5825	18.30	17.68	126.222	21.01	30.00	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.45	15.28	68.804	18.38	24.00	Pass
46	5230	17.32	17.12	105.474	20.23	24.00	Pass
54	5270	17.29	17.10	104.866	20.21	24.00	Pass
62	5310	15.45	15.38	69.589	18.43	24.00	Pass
102	5510	13.75	13.79	47.647	16.78	24.00	Pass
110	5550	17.07	17.06	101.749	20.08	24.00	Pass
118	5590	17.05	17.04	101.281	20.06	24.00	Pass
126	5630	17.04	17.03	101.048	20.05	24.00	Pass
134	5670	16.80	16.52	92.738	19.67	24.00	Pass
142	5710	17.34	17.00	104.319	20.18	24.00	Pass
151	5755	18.18	17.35	120.091	20.80	30.00	Pass
159	5795	18.27	17.53	123.767	20.93	30.00	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	15.86	15.53	74.275	18.71	24.00	Pass
58	5290	15.91	15.63	75.553	18.78	24.00	Pass
106	5530	14.72	14.55	58.158	17.65	24.00	Pass
122	5610	17.47	17.44	111.310	20.47	24.00	Pass
138	5690	17.19	16.96	102.019	20.09	24.00	Pass
155	5775	17.19	16.96	122.329	20.88	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.47	17.34	110.047	20.42	24.00	Pass
40	5200	17.43	17.41	110.416	20.43	24.00	Pass
44	5220	17.36	17.29	108.030	20.34	24.00	Pass
48	5240	17.32	17.18	106.191	20.26	24.00	Pass
52	5260	17.44	17.39	110.291	20.43	24.00	Pass
56	5280	17.40	17.34	109.154	20.38	24.00	Pass
60	5300	17.43	17.15	107.215	20.30	24.00	Pass
64	5320	17.48	17.30	109.679	20.40	24.00	Pass
100	5500	15.04	15.21	65.104	18.14	24.00	Pass
116	5580	17.46	17.48	111.695	20.48	24.00	Pass
120	5600	17.43	17.45	110.925	20.45	24.00	Pass
124	5620	17.42	17.45	110.798	20.45	24.00	Pass
140	5700	15.98	15.86	78.176	18.93	24.00	Pass
144	5720	17.47	17.11	107.251	20.30	24.00	Pass
149	5745	18.24	17.60	124.225	20.94	30.00	Pass
153	5765	18.21	17.57	123.370	20.91	30.00	Pass
157	5785	18.33	17.62	125.887	21.00	30.00	Pass
161	5805	18.28	17.58	124.578	20.95	30.00	Pass
165	5825	18.15	17.73	124.606	20.96	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.47	15.32	69.278	18.41	24.00	Pass
46	5230	17.34	17.17	106.319	20.27	24.00	Pass
54	5270	17.49	17.40	111.059	20.46	24.00	Pass
62	5310	15.49	15.45	70.475	18.48	24.00	Pass
102	5510	13.84	13.81	48.254	16.84	24.00	Pass
110	5550	17.15	17.10	103.166	20.14	24.00	Pass
118	5590	17.13	17.08	102.692	20.12	24.00	Pass
126	5630	17.10	17.06	102.102	20.09	24.00	Pass
134	5670	16.98	16.93	99.205	19.97	24.00	Pass
142	5710	17.36	17.01	104.684	20.20	24.00	Pass
151	5755	18.26	17.42	122.196	20.87	30.00	Pass
159	5795	18.32	17.67	126.399	21.02	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	15.81	15.62	74.582	18.73	24.00	Pass
58	5290	15.83	15.80	76.301	18.83	24.00	Pass
106	5530	14.53	14.56	56.955	17.56	24.00	Pass
122	5610	17.07	17.14	102.694	20.12	24.00	Pass
138	5690	17.19	17.06	103.176	20.14	24.00	Pass
155	5775	18.36	17.66	126.894	21.03	30.00	Pass

802.11ax (HE20_RU26)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.64	12.67	36.858	15.67	24.00	Pass
40	5200	12.68	12.66	36.985	15.68	24.00	Pass
44	5220	12.62	12.59	36.436	15.62	24.00	Pass
48	5240	12.79	12.75	37.847	15.78	24.00	Pass
52	5260	12.95	12.98	39.585	15.98	24.00	Pass
56	5280	12.98	12.99	39.768	16.00	24.00	Pass
60	5300	12.48	12.45	35.280	15.48	24.00	Pass
64	5320	12.88	12.96	39.179	15.93	24.00	Pass
100	5500	11.87	11.93	30.978	14.91	24.00	Pass
116	5580	11.90	11.90	30.976	14.91	24.00	Pass
120	5600	11.98	11.96	31.480	14.98	24.00	Pass
124	5620	11.94	11.95	31.299	14.96	24.00	Pass
140	5700	11.88	11.89	30.870	14.90	24.00	Pass
144	5720	11.92	11.89	31.013	14.92	24.00	Pass
149	5745	15.43	15.45	69.989	18.45	30.00	Pass
153	5765	15.40	15.45	69.749	18.44	30.00	Pass
157	5785	15.42	15.47	70.071	18.46	30.00	Pass
161	5805	15.38	15.47	69.751	18.44	30.00	Pass
165	5825	15.48	15.46	70.474	18.48	30.00	Pass

802.11ax (HE20_RU52)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.11	15.07	64.571	18.10	24.00	Pass
40	5200	12.89	12.91	38.997	15.91	24.00	Pass
44	5220	15.14	15.21	65.848	18.19	24.00	Pass
48	5240	15.12	15.16	65.319	18.15	24.00	Pass
52	5260	15.38	15.49	69.914	18.45	24.00	Pass
56	5280	15.37	15.37	68.870	18.38	24.00	Pass
60	5300	12.40	12.39	34.716	15.41	24.00	Pass
64	5320	15.49	15.39	69.994	18.45	24.00	Pass
100	5500	13.96	13.97	49.835	16.98	24.00	Pass
116	5580	13.88	13.89	48.925	16.90	24.00	Pass
120	5600	13.87	13.89	48.869	16.89	24.00	Pass
124	5620	13.94	13.99	49.835	16.98	24.00	Pass
140	5700	13.89	13.87	48.869	16.89	24.00	Pass
144	5720	13.88	13.88	48.868	16.89	24.00	Pass
149	5745	15.48	15.46	70.474	18.48	30.00	Pass
153	5765	15.38	15.41	69.268	18.41	30.00	Pass
157	5785	15.38	15.43	69.428	18.42	30.00	Pass
161	5805	15.44	15.39	69.589	18.43	30.00	Pass
165	5825	15.45	15.41	69.829	18.44	30.00	Pass

802.11ax (HE20_RU106)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.29	16.31	85.316	19.31	24.00	Pass
40	5200	12.93	12.95	39.358	15.95	24.00	Pass
44	5220	16.25	16.27	84.534	19.27	24.00	Pass
48	5240	16.32	16.36	86.106	19.35	24.00	Pass
52	5260	16.41	16.46	88.011	19.45	24.00	Pass
56	5280	16.39	16.43	87.505	19.42	24.00	Pass
60	5300	12.45	12.41	34.997	15.44	24.00	Pass
64	5320	16.38	16.48	87.914	19.44	24.00	Pass
100	5500	14.94	14.93	62.306	17.95	24.00	Pass
116	5580	16.39	16.39	87.102	19.40	24.00	Pass
120	5600	16.39	16.35	86.703	19.38	24.00	Pass
124	5620	16.44	16.24	86.128	19.35	24.00	Pass
140	5700	15.96	15.84	77.817	18.91	24.00	Pass
144	5720	16.40	16.46	87.911	19.44	24.00	Pass
149	5745	15.46	15.42	69.990	18.45	30.00	Pass
153	5765	15.42	15.47	70.071	18.46	30.00	Pass
157	5785	15.45	15.49	70.475	18.48	30.00	Pass
161	5805	15.37	15.40	69.109	18.40	30.00	Pass
165	5825	15.48	15.41	70.072	18.46	30.00	Pass

802.11ax (HE20_RU242)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.36	16.31	86.007	19.35	24.00	Pass
40	5200	12.86	12.90	38.818	15.89	24.00	Pass
44	5220	16.37	16.35	86.503	19.37	24.00	Pass
48	5240	16.32	16.34	85.908	19.34	24.00	Pass
52	5260	16.43	16.38	87.405	19.42	24.00	Pass
56	5280	16.44	16.47	88.416	19.47	24.00	Pass
60	5300	12.45	12.43	35.077	15.45	24.00	Pass
64	5320	16.46	16.47	88.620	19.48	24.00	Pass
100	5500	14.89	14.96	62.165	17.94	24.00	Pass
116	5580	16.37	16.43	87.305	19.41	24.00	Pass
120	5600	16.46	16.23	86.235	19.36	24.00	Pass
124	5620	16.42	16.23	85.829	19.34	24.00	Pass
140	5700	15.86	15.73	75.959	18.81	24.00	Pass
144	5720	16.40	16.44	87.707	19.43	24.00	Pass
149	5745	17.44	17.45	111.053	20.46	30.00	Pass
153	5765	17.46	17.38	110.421	20.43	30.00	Pass
157	5785	17.42	17.40	110.162	20.42	30.00	Pass
161	5805	17.43	17.44	110.798	20.45	30.00	Pass
165	5825	17.43	17.40	110.289	20.43	30.00	Pass

802.11ax (HE40_RU484)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	11.47	11.48	28.088	14.49	24.00	Pass
46	5230	16.32	16.36	86.106	19.35	24.00	Pass
54	5270	16.46	16.46	88.518	19.47	24.00	Pass
62	5310	11.44	11.39	27.704	14.43	24.00	Pass
102	5510	9.41	9.46	17.561	12.45	24.00	Pass
110	5550	16.48	16.44	88.518	19.47	24.00	Pass
118	5590	16.38	16.49	88.017	19.45	24.00	Pass
126	5630	16.41	16.42	87.605	19.43	24.00	Pass
134	5670	15.40	15.32	68.715	18.37	24.00	Pass
142	5710	16.48	16.46	88.722	19.48	24.00	Pass
151	5755	17.38	17.40	109.656	20.40	30.00	Pass
159	5795	17.47	17.38	110.549	20.44	30.00	Pass

802.11ax (HE80_RU996)

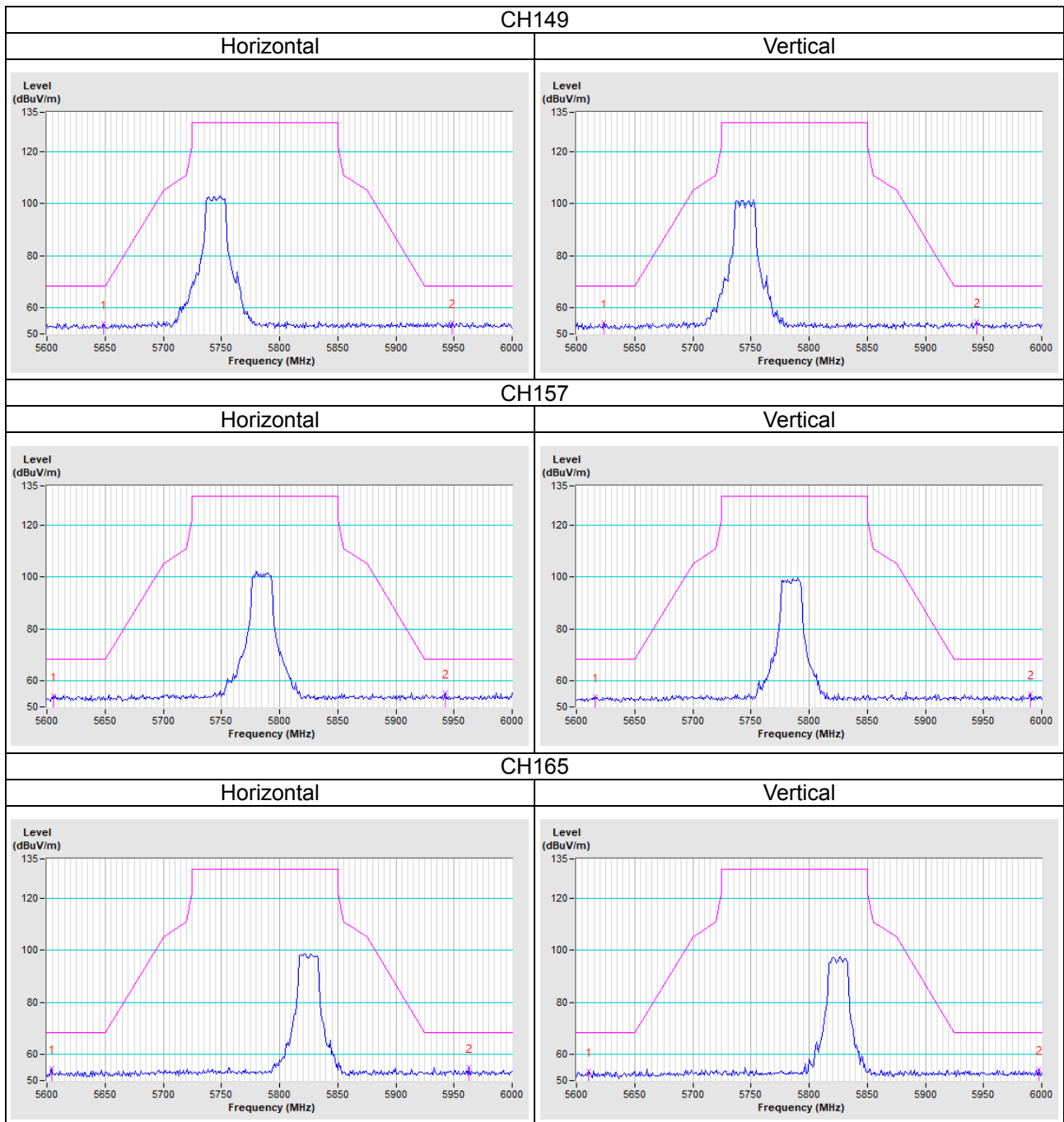
Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	15.77	15.72	75.082	18.76	24.00	Pass
58	5290	15.80	15.75	75.603	18.79	24.00	Pass
106	5530	11.41	11.47	27.864	14.45	24.00	Pass
122	5610	16.47	16.41	88.113	19.45	24.00	Pass
138	5690	16.44	16.49	88.621	19.48	24.00	Pass
155	5775	17.42	17.44	110.671	20.44	30.00	Pass

5 Pictures of Test Arrangements

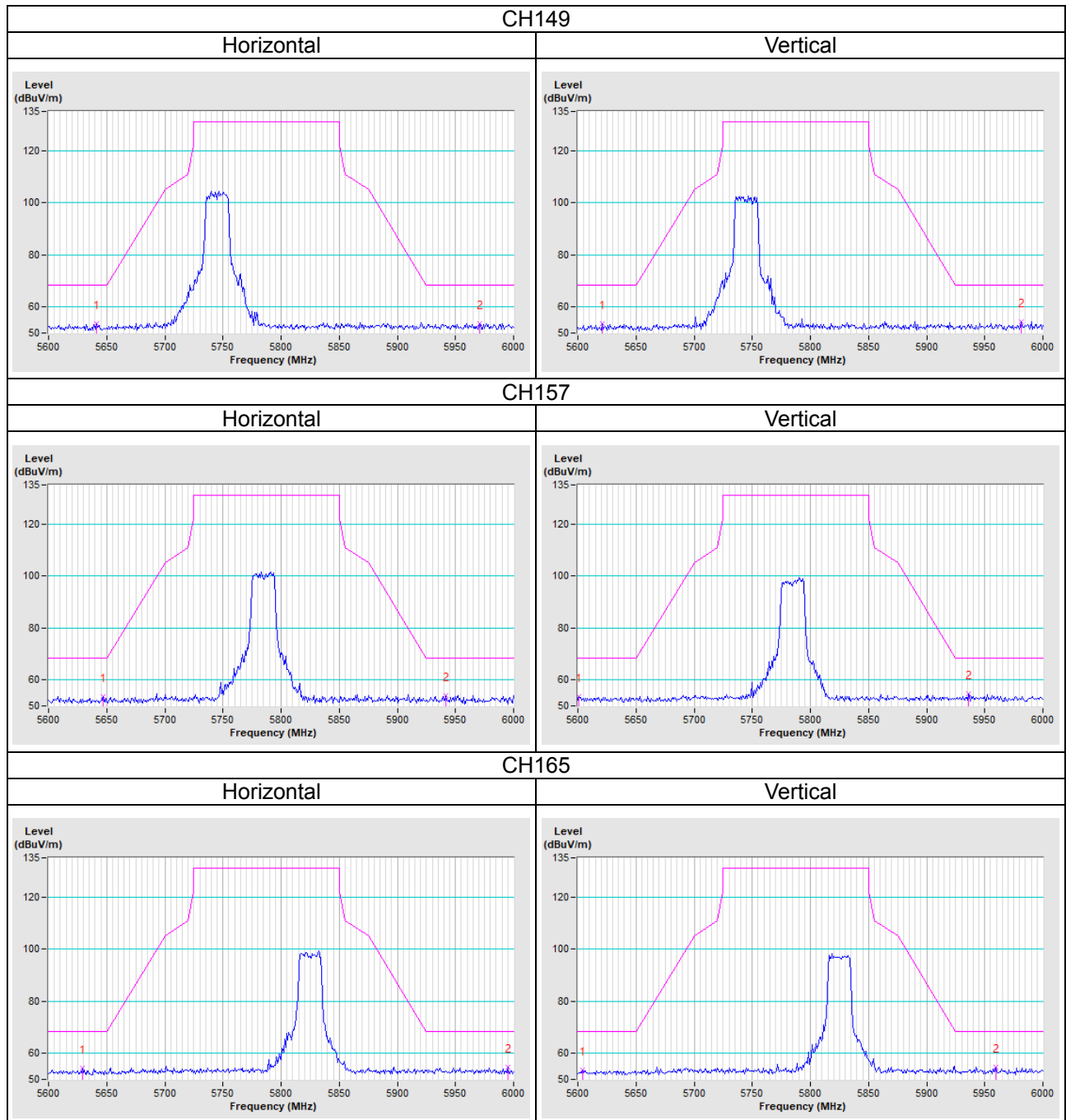
Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

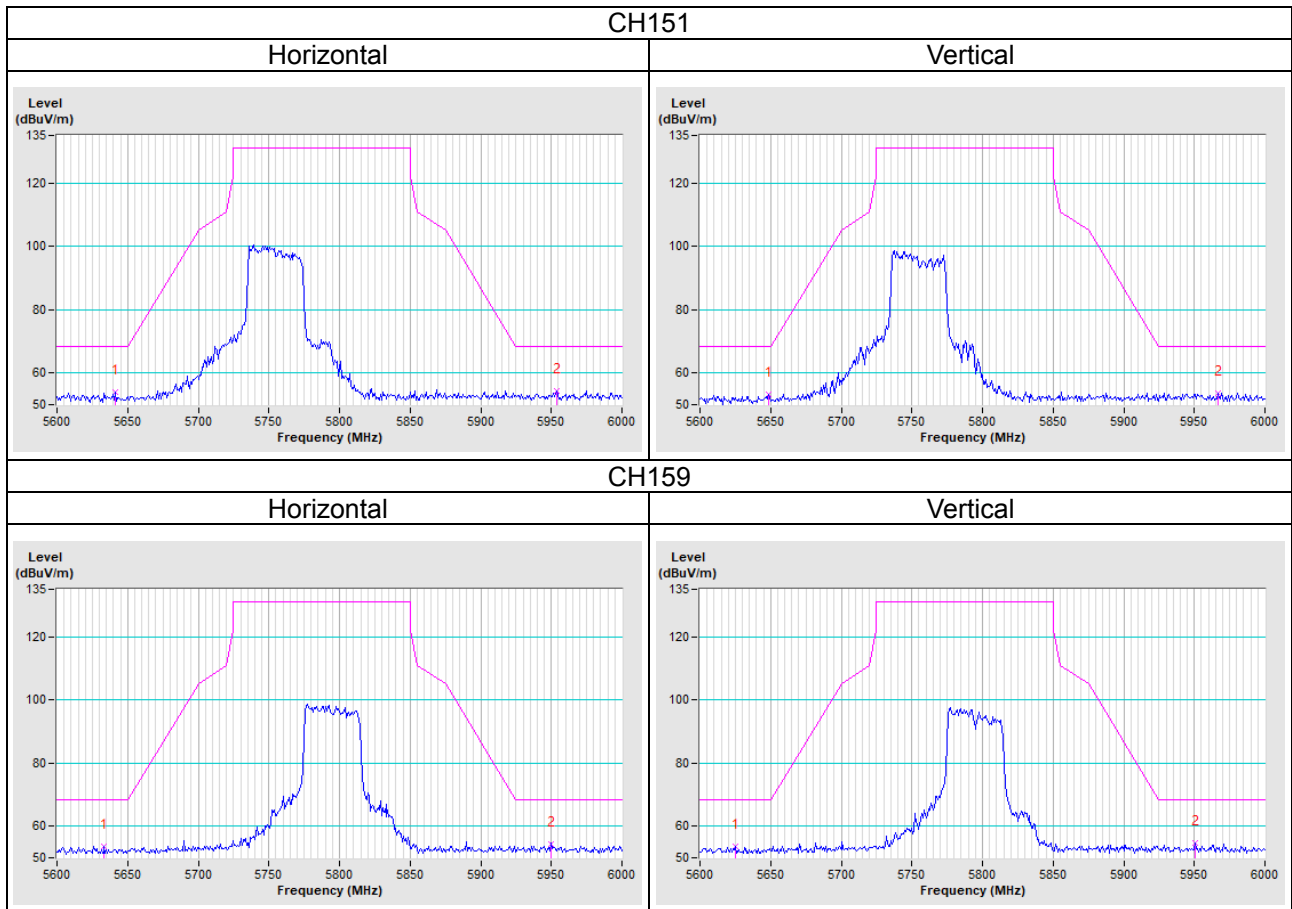
802.11a



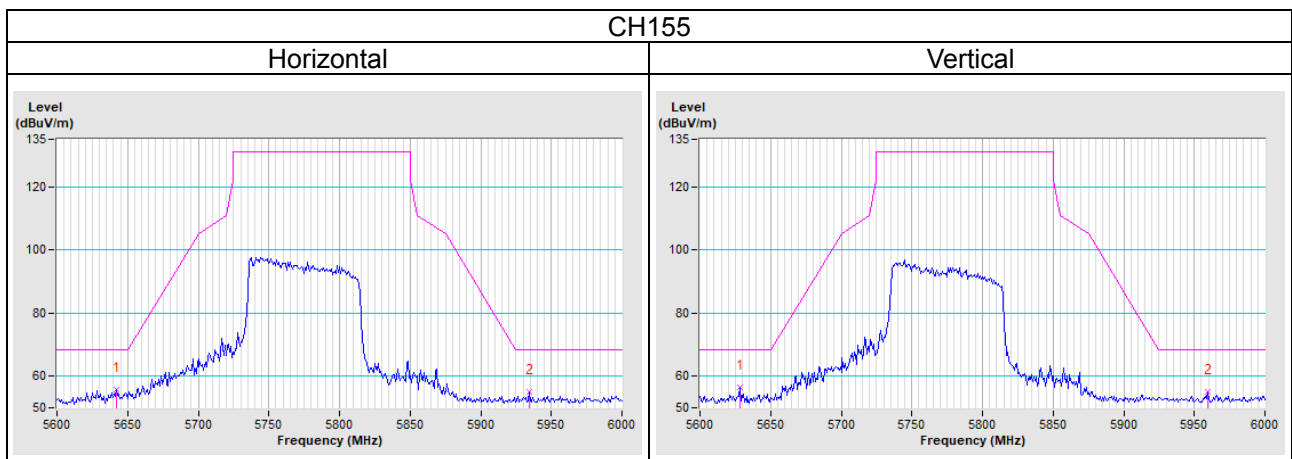
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Appendix – Information of the Testing Laboratories

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

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

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

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