FCC Test Report

Report No.:	RFBCKS-WTW-P20110426-4
FCC ID:	K7S-03685
Test Model:	MX8500
Series Model:	MX85EC, MX85WH, MX85MS
Received Date:	Nov. 12, 2020
Test Date:	Nov. 21, 2020 to Feb. 24, 2021
Issued Date:	Mar. 04, 2021
Applicant:	Belkin International, Inc.
Address:	12045 East Waterfront Drive, Playa Vista, CA 90094
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / Designation Number:	723255 / TW2022

Testing Laboratory
2022

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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P20110426-4	Original release.	Mar. 04, 2021

1 Certificate of Conformity

Product:	Linksys Tri-Band 802.11ax Wireless Router
Brand:	Linksys
Test Model:	MX8500
Series Model:	MX85EC, MX85WH, MX85MS
Sample Status:	Engineering sample
Applicant:	Belkin International, Inc.
Test Date:	Nov. 21, 2020 to Feb. 24, 2021
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10: 2013

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

Prepared by : _____ , **Date:** Mar. 04, 2021

Claire Kuan / Specialist

Approved by : _____ , **Date:** Mar. 04, 2021

Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -16.77dB at 0.17045MHz.
15.407(b)(5)(8)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.2dB at 7125.00MHz.
15.407(b)(6)	In-Band Emission (Mask)	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407 (d)(6)	Contention-based Protocol.	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.407(d)	Operational restrictions for 6 GHz U-NII devices	PASS	Declaration by applicant
15.203	Antenna Requirement	PASS	Antenna connector is i-pex(MHF) not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	3.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.4 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Linksys Tri-Band 802.11ax Wireless Router
Brand	Linksys
Test Model	MX8500
Series Model	MX85EC, MX85WH, MX85MS
Model Difference	Marketing Differentiation
Status of EUT	Engineering sample
Driver version	SPF11.3_CS_v1.12_CBP
Power Supply Rating	12Vdc from adapter
Modulation Type	1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDMA
Transfer Rate	802.11ax: up to 4803.9 Mbps
Operating Frequency	6.115 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	802.11ax (HE20): 51 802.11ax (HE40): 25 802.11ax (HE80): 12 802.11ax (HE160): 6
Output Power	**CDD Mode:** **6.105 ~ 6.425GHz:** 86.02 mW (EIRP: 24.65 dBm / 291.74 mW) **6.425 ~ 6.525GHz:** 49.296 mW (EIRP: 22.03 dBm / 159.588 mW) **6.525 ~ 6.875GHz:** 91.22 mW (EIRP: 25.00 dBm / 316.228 mW) **6.875 ~ 7.125GHz:** 80.729 mW (EIRP: 24.97 dBm / 314.051 mW) **Beamforming Mode:** **6.105 ~ 6.425GHz:** 79.698 mW (EIRP: 27.07 dBm / 509.33 mW) **6.425 ~ 6.525GHz:** 41.184 mW (EIRP: 23.97 dBm / 249.459 mW) **6.525 ~ 6.875GHz:** 82.829 mW (EIRP: 27.15 dBm / 518.8 mW) **6.875 ~ 7.125GHz:** 75.916 mW (EIRP: 27.18 dBm / 522.396 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter x1
Data Cable Supplied	NA

Note:

1. The EUT power needs to be supplied from one power adapter, the information is as below table:

Adapter 1	
Brand	Ktec
Model	KSAS0501200400HU
Input Power	100-240Vac, 50/60Hz, 1.2A
Output Power	12Vdc, 4.0A
Power Cord	AC 2-Pin, Non-shielded DC cable (1.5m)
Adapter 2	
Brand	APD
Model	WA-48B12FU
Input Power	100-240Vac, 50/60Hz, 1.5A
Output Power	12Vdc, 4.0A
Power Cord	AC 2-Pin, Non-shielded DC cable (1.5m)
The above two adapters were pre-tested, for concuted emission Adapter 2 was the worst case for final test and for radiated emission Adapter 1 was the worst case for final test.	

2. The EUT incorporates a MIMO function. Physically, the EUT provides 4 completed transmitters and 4 receivers.

Modulation Mode	CDD Mode	Beamforming Mode	TX Function
802.11ax (HE20)	Support	Support	4TX
802.11ax (HE40)	Support	Support	4TX
802.11ax (HE80)	Support	Support	4TX
802.11ax (HE160)	Support	Support	4TX

* The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.

3. There are two different Wi-Fi 6E filter sources for EUT (only difference is brand), after pretest the No.1 was the worst case for final test.

No	Brand
1	Soshin
2	ACX

4. The following antennas were provided to the EUT.

Antenna Type	Dipole on PCB			
Antenna Connector	i-pex (MHF)			
Antenna No.	Gain (dBi)			
	5105MHz~6425MHz	6425MHz~6525MHz	6525MHz~6875MHz	6875MHz~7125MHz
Ant1 = 6GA	5.3	4.3	3.6	4.1
Ant2 = 6GB	4.8	4.1	3.4	4.4
Ant3 = 6GC	5.1	5.1	4.5	4.8
Ant4 = 6GD	3.2	4.5	5.4	5.9

The following antenna allocation table was provided to the EUT.

6G Antenna port		6G Antenna port		TX Function	
Degree -45°	6GD	Degree +45°	6GC	MIMO	Correlated
Degree -45°	6GB	Degree +45°	6GA	MIMO	

All antennas are dipole type. Thus antennas are all used the same type, the difference is only in the placement direction. According this condition, 2GA1 / 2GA2 are cross-polarization, 2GB1 / 2GB2 are cross-polarization, 5GA / 5GC are cross-polarization, 5GB / 5GD are cross-polarization, 6GA / 6GC are cross-polarization, 6GB / 6GD are cross-polarization.

6GA and 6GC locates on the opposite side of the device. The Degree +45º means the angle we see when facing towards to the antenna. This means if we look at 6GA(+45º) in front of us, the 6GC at the opposite side will be -45º. Therefore, it is sure that 6GA and 6GC have exactly 90-degree angle difference and are cross-polarized. The same situation are with 6GB and 6GD.

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

3.2 Description of Test Modes

For 6105 ~ 6425MHz (U-NII-5 band)

16 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

8 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

4 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
39	6145 MHz	55	6225 MHz	71	6305 MHz	87	6385 MHz

2 channel is provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
47	6185 MHz	79	6345 MHz

For 6425 ~ 6525MHz (U-NII-6 band)

5 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
103	6465 MHz	*119	6545 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
*111	6505 MHz

Note: * mean this's straddle channel.

For 6525 ~ 6875MHz (U-NII-7 band)

18 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

9 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
*187	6885 MHz						

4 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625 MHz	151	6705 MHz	167	6785 MHz	*183	6865 MHz

2 channel is provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

Note: * mean this's straddle channel.

For 6875 ~ 7125MHz (U-NII-8 band):

12 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

5 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz		

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To						Description
	RE≥1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	-	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement
IBE: In-Band Emission (MASK) **CBP:**Contention Based Protocol

Radiated Emission Measurement (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.

CDD Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	6115-6415	33 to 93	33, 61, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 229, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	6125-6405	35 to 91	35, 59, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	6145-6385	39 to 87	39, 55, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	6185-6385	47 to 79	47, 79	OFDMA	BPSK	MCS0
	6505	111	111	OFDMA	BPSK	MCS0
	6525-6875	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6985	207	207	OFDMA	BPSK	MCS0

Radiated Emission Measurement (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.

CDD Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE160)	6185-6385 6505 6525-6875 6985	47 to 79 111 143 to 175 207	175	OFDMA	BPSK	MCS0

In-Band Emission (MASK) Measurement:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE20)	6115-6415	33 to 93	33, 61, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 229, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	6125-6405	35 to 91	35, 59, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	6145-6385	39 to 87	39, 55, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	6185-6385	47 to 79	47, 79	OFDMA	BPSK	MCS0
	6505	111	111	OFDMA	BPSK	MCS0
	6525-6875	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6985	207	207	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE160)	6185-6385 6505 6525-6875 6985	47 to 79 111 143 to 175 207	175	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

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

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE20)	6115-6415	33 to 93	33, 61, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 229, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	6125-6405	35 to 91	35, 59, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	6145-6385	39 to 87	39, 55, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	6185-6385	47 to 79	47, 79	OFDMA	BPSK	MCS0
	6505	111	111	OFDMA	BPSK	MCS0
	6525-6875	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6985	207	207	OFDMA	BPSK	MCS0
Beamforming Mode (Output power only)						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE20)	6115-6415	33 to 93	33, 61, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 229, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	6125-6405	35 to 91	35, 59, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	6145-6385	39 to 87	39, 55, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	6185-6385	47 to 79	47, 79	OFDMA	BPSK	MCS0
	6505	111	111	OFDMA	BPSK	MCS0
	6525-6875	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6985	207	207	OFDMA	BPSK	MCS0

Contention Based Protocol Measurement:

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	6115-6415	33 to 93	33	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	149	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	193	OFDMA	BPSK	MCS0
802.11ax (HE160)	6185-6385	47 to 79	47	OFDMA	BPSK	MCS0
	6505	111	111	OFDMA	BPSK	MCS0
	6525-6875	143 to 175	143	OFDMA	BPSK	MCS0
	6985	207	207	OFDMA	BPSK	MCS0

Test Condition:

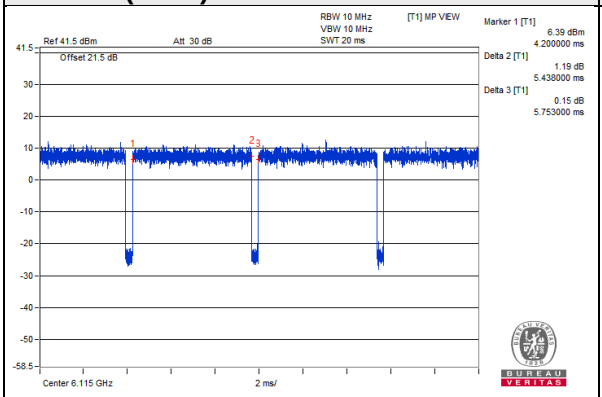
Applicable To	Environmental Conditions	Input Power	Tested By
RE≥1G	24deg. C, 68%RH 25deg. C, 75%RH	120Vac, 60Hz	Tom Yang Ryan Du
RE<1G	23deg. C, 67%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 67%RH	120Vac, 60Hz	Tom Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen

3.3 Duty Cycle of Test Signal

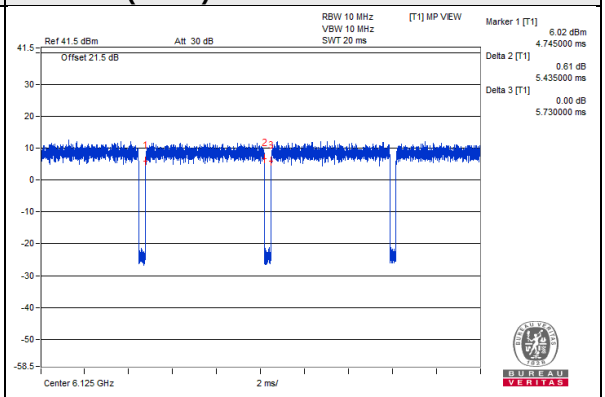
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11ax (HE20): Duty cycle = 5.438 ms/5.753 ms= 0.945, Duty factor = 10 * log(1/ Duty cycle) = 0.24 dB
802.11ax (HE40): Duty cycle = 5.435 ms/5.73 ms= 0.949, Duty factor = 10 * log(1/ Duty cycle) = 0.23 dB
802.11ax (HE80): Duty cycle = 5.44 ms/5.822 ms= 0.934, Duty factor = 10 * log(1/ Duty cycle) = 0.29 dB
802.11ax (HE160): Duty cycle = 5.438 ms/5.836 ms= 0.932, Duty factor = 10 * log(1/ Duty cycle) = 0.31 dB

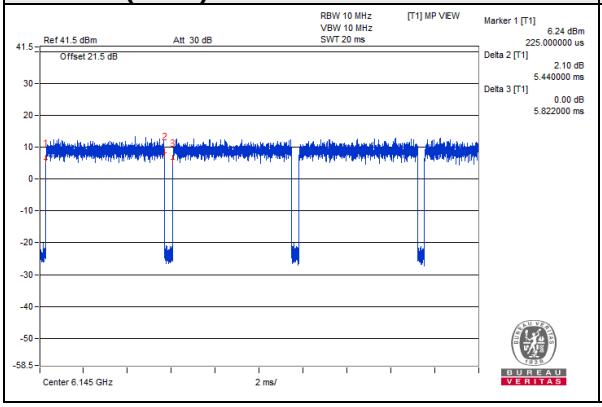
802.11ax (HE20)



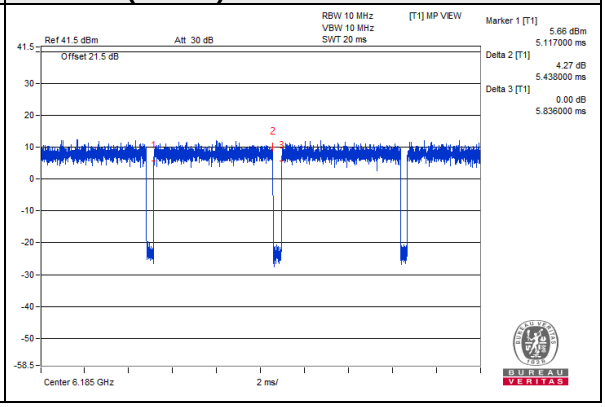
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



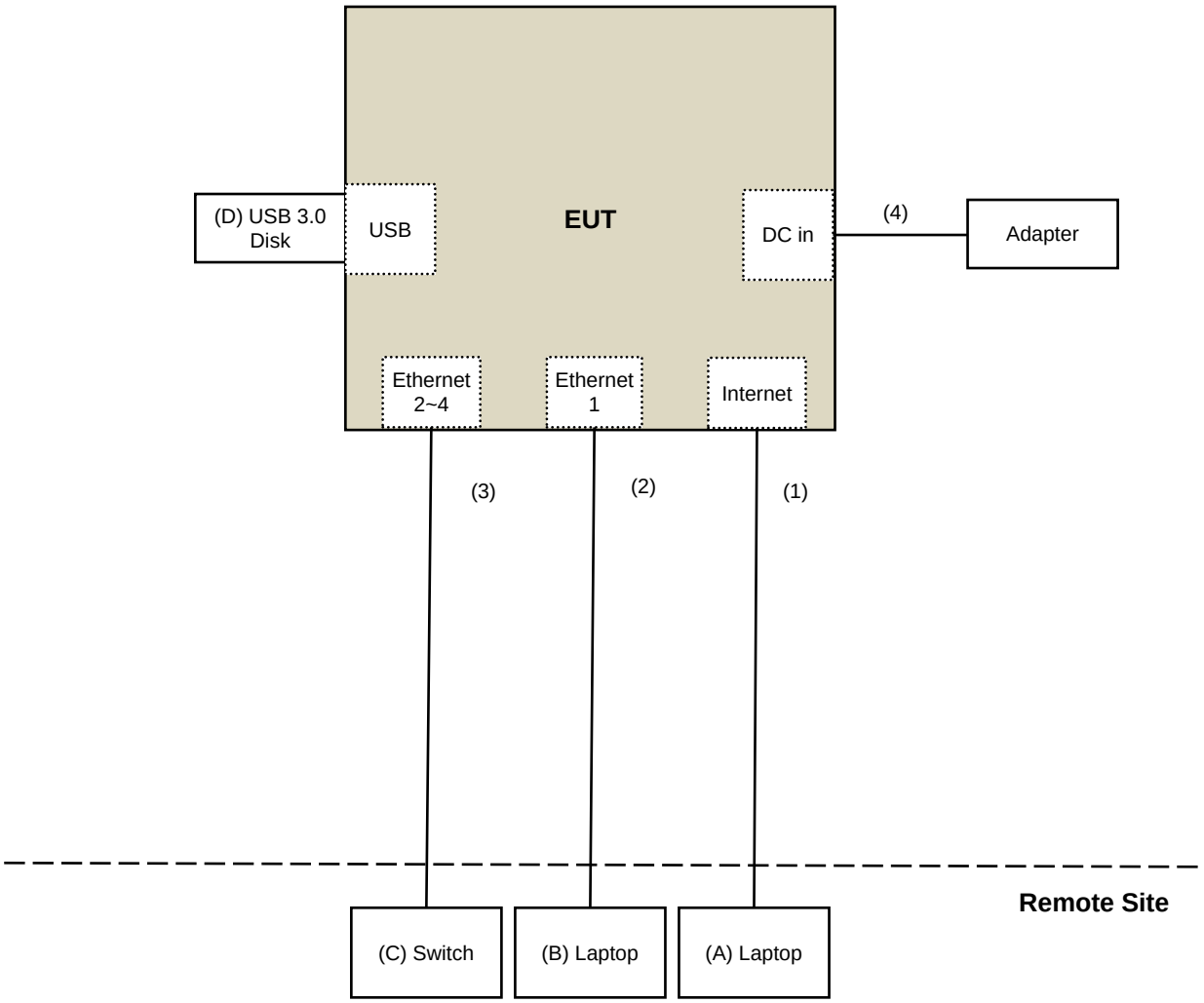
3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E5430	4YV4VY1	DoC	Provided by Lab
B.	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
C.	Switch	D-Link	DGS-1005D	DR8WC92000523	NA	Provided by Lab
D.	USB 3.0 Disk	SanDisk	SDCZ73-032G-G46	NA	NA	Provided by Lab

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

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standard

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 987594 D02 EMC Measurement v01
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

Note:

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

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

4.1.2 Test Instruments

For Radiated emission test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 28, 2020	Apr. 27, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 05, 2020	Nov. 04, 2021
RF Cable	8D	966-3-1	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-2	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-3	Mar. 17, 2020	Mar. 16, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 24, 2020	Sep. 23, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 22, 2020	Nov. 21, 2021
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 22, 2020	Nov. 21, 2021
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: Dec. 01 to 13, 2020

For Bandedge test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: Nov. 21, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 16, 2020	Jan. 15, 2021
True RMS Clamp Meter FLUKE	325	31130711WS	June 06, 2020	June 05, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Dec. 18 to 21, 2020

4.1.3 Test Procedure

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.

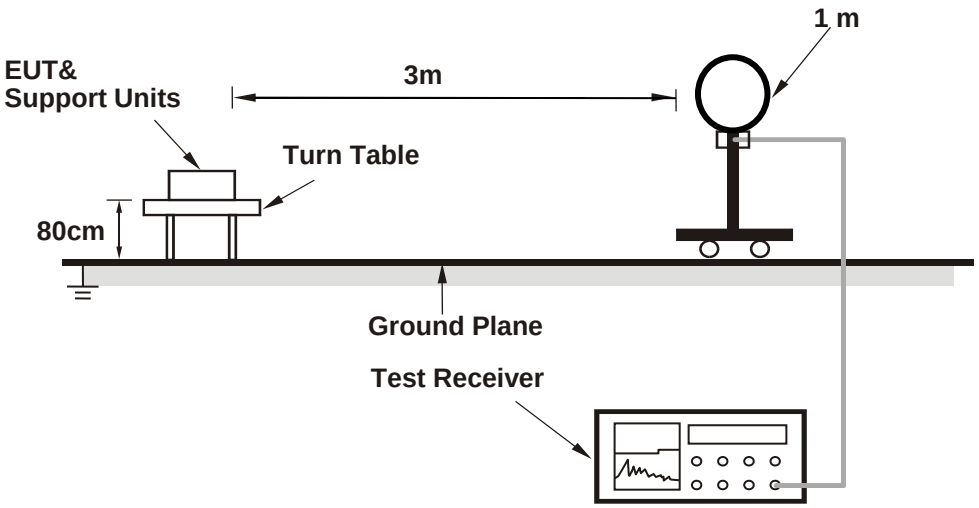
f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

Note:

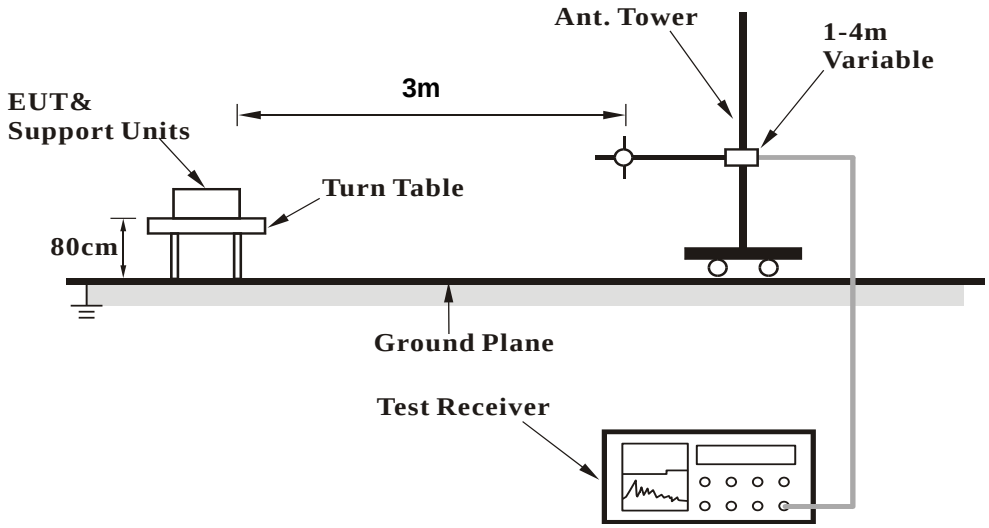
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Test Setup

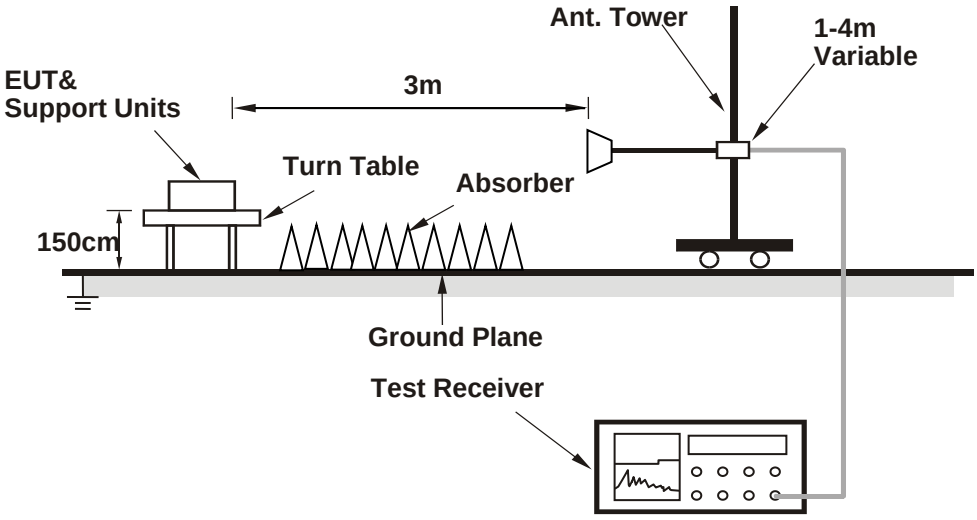
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.5 EUT Operating Condition

a. Connected the EUT with the Laptop which is placed on the testing table.
b. Controlling software (QSPR (1.0-00070)) has been activated to set the EUT under transmission condition continuously.

4.1.6 Test Results

CDD Mode

Above 1GHz Data:

RF Mode	TX 802.11ax (HE20)	**Channel**	CH 33：6115 MHz
Frequency Range	1GHz ~ 40GHz	**Detector Function**	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5925.00	52.2 PK	88.2	-36.0	2.35 H	314	47.3	4.9
2	#5925.00	40.0 AV	68.2	-28.2	2.35 H	314	35.1	4.9
3	*6115.00	107.2 PK			2.35 H	314	101.9	5.3
4	*6115.00	96.2 AV			2.35 H	314	90.9	5.3
5	12230.00	44.8 PK	74.0	-29.2	1.63 H	83	30.7	14.1
6	12230.00	33.6 AV	54.0	-20.4	1.63 H	83	19.5	14.1
7	18345.00	49.3 PK	74.0	-24.7	1.82 H	63	56.5	-7.2
8	18345.00	37.5 AV	54.0	-16.5	1.82 H	63	44.7	-7.2
9	#24460.00	41.8 PK	88.2	-46.4	1.87 H	122	43.9	-2.1
10	#24460.00	32.4 AV	68.2	-35.8	1.87 H	122	34.5	-2.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5925.00	53.0 PK	88.2	-35.2	1.64 V	238	48.1	4.9
2	#5925.00	39.8 AV	68.2	-28.4	1.64 V	238	34.9	4.9
3	*6115.00	105.9 PK			1.64 V	238	100.6	5.3
4	*6115.00	96.0 AV			1.64 V	238	90.7	5.3
5	12230.00	45.1 PK	74.0	-28.9	1.33 V	167	31.0	14.1
6	12230.00	33.8 AV	54.0	-20.2	1.33 V	167	19.7	14.1
7	18345.00	49.7 PK	74.0	-24.3	1.67 V	224	56.9	-7.2
8	18345.00	37.6 AV	54.0	-16.4	1.67 V	224	44.8	-7.2
9	#24460.00	42.1 PK	88.2	-46.1	2.21 V	145	44.2	-2.1
10	#24460.00	32.7 AV	68.2	-35.5	2.21 V	145	34.8	-2.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 65：6275 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6275.00	111.4 PK			2.41 H	307	105.6	5.8
2	*6275.00	101.3 AV			2.41 H	307	95.5	5.8
3	12550.00	45.3 PK	74.0	-28.7	1.61 H	77	31.9	13.4
4	12550.00	34.0 AV	54.0	-20.0	1.61 H	77	20.6	13.4
5	18825.00	48.9 PK	74.0	-25.1	1.88 H	50	55.8	-6.9
6	18825.00	37.3 AV	54.0	-16.7	1.88 H	50	44.2	-6.9
7	#25100.00	41.9 PK	88.2	-46.3	1.93 H	129	43.5	-1.6
8	#25100.00	32.3 AV	68.2	-35.9	1.93 H	129	33.9	-1.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6275.00	111.2 PK			1.66 V	227	105.4	5.8
2	*6275.00	101.3 AV			1.66 V	227	95.5	5.8
3	12550.00	45.0 PK	74.0	-29.0	1.38 V	179	31.6	13.4
4	12550.00	33.8 AV	54.0	-20.2	1.38 V	179	20.4	13.4
5	18825.00	50.0 PK	74.0	-24.0	1.69 V	214	56.9	-6.9
6	18825.00	38.0 AV	54.0	-16.0	1.69 V	214	44.9	-6.9
7	#25100.00	41.6 PK	88.2	-46.6	2.25 V	143	43.2	-1.6
8	#25100.00	32.3 AV	68.2	-35.9	2.25 V	143	33.9	-1.6

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 93：6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	111.3 PK			2.41 H	299	104.8	6.5
2	*6415.00	101.1 AV			2.41 H	299	94.6	6.5
3	#12830.00	44.8 PK	88.2	-43.4	1.69 H	74	30.6	14.2
4	#12830.00	33.6 AV	68.2	-34.6	1.69 H	74	19.4	14.2
5	19245.00	49.0 PK	74.0	-25.0	1.86 H	50	55.7	-6.7
6	19245.00	37.4 AV	54.0	-16.6	1.86 H	50	44.1	-6.7
7	#25660.00	41.8 PK	88.2	-46.4	1.83 H	114	43.4	-1.6
8	#25660.00	32.6 AV	68.2	-35.6	1.83 H	114	34.2	-1.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	111.6 PK			1.63 V	232	105.1	6.5
2	*6415.00	101.8 AV			1.63 V	232	95.3	6.5
3	#12830.00	45.4 PK	88.2	-42.8	1.34 V	153	31.2	14.2
4	#12830.00	33.8 AV	68.2	-34.4	1.34 V	153	19.6	14.2
5	19245.00	49.6 PK	74.0	-24.4	1.70 V	231	56.3	-6.7
6	19245.00	37.3 AV	54.0	-16.7	1.70 V	231	44.0	-6.7
7	#25660.00	42.1 PK	88.2	-46.1	2.25 V	155	43.7	-1.6
8	#25660.00	32.6 AV	68.2	-35.6	2.25 V	155	34.2	-1.6

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 97：6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	111.9 PK			2.38 H	297	105.3	6.6
2	*6435.00	101.6 AV			2.38 H	297	95.0	6.6
3	#12870.00	45.0 PK	88.2	-43.2	1.59 H	76	30.9	14.1
4	#12870.00	33.6 AV	68.2	-34.6	1.59 H	76	19.5	14.1
5	19305.00	50.1 PK	74.0	-23.9	1.85 H	74	56.8	-6.7
6	19305.00	38.0 AV	54.0	-16.0	1.85 H	74	44.7	-6.7
7	#25740.00	41.8 PK	88.2	-46.4	1.85 H	114	43.2	-1.4
8	#25740.00	32.6 AV	68.2	-35.6	1.85 H	114	34.0	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	111.6 PK			1.66 V	227	105.0	6.6
2	*6435.00	101.7 AV			1.66 V	227	95.1	6.6
3	#12870.00	45.4 PK	88.2	-42.8	1.34 V	176	31.3	14.1
4	#12870.00	33.9 AV	68.2	-34.3	1.34 V	176	19.8	14.1
5	19305.00	49.8 PK	74.0	-24.2	1.65 V	212	56.5	-6.7
6	19305.00	37.4 AV	54.0	-16.6	1.65 V	212	44.1	-6.7
7	#25740.00	41.9 PK	88.2	-46.3	2.27 V	138	43.3	-1.4
8	#25740.00	32.5 AV	68.2	-35.7	2.27 V	138	33.9	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 105：6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	111.0 PK			2.37 H	303	104.1	6.9
2	*6475.00	101.0 AV			2.37 H	303	94.1	6.9
3	#12950.00	44.4 PK	88.2	-43.8	1.62 H	73	30.3	14.1
4	#12950.00	33.1 AV	68.2	-35.1	1.62 H	73	19.0	14.1
5	19425.00	49.7 PK	74.0	-24.3	1.80 H	75	56.5	-6.8
6	19425.00	38.0 AV	54.0	-16.0	1.80 H	75	44.8	-6.8
7	#25900.00	41.3 PK	88.2	-46.9	1.87 H	133	43.3	-2.0
8	#25900.00	31.9 AV	68.2	-36.3	1.87 H	133	33.9	-2.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	111.4 PK			1.62 V	236	104.5	6.9
2	*6475.00	101.7 AV			1.62 V	236	94.8	6.9
3	#12950.00	45.4 PK	88.2	-42.8	1.32 V	157	31.3	14.1
4	#12950.00	34.2 AV	68.2	-34.0	1.32 V	157	20.1	14.1
5	19425.00	50.2 PK	74.0	-23.8	1.62 V	229	57.0	-6.8
6	19425.00	38.0 AV	54.0	-16.0	1.62 V	229	44.8	-6.8
7	#25900.00	42.4 PK	88.2	-45.8	2.25 V	136	44.4	-2.0
8	#25900.00	33.1 AV	68.2	-35.1	2.25 V	136	35.1	-2.0

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 113：6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	111.4 PK			2.41 H	296	104.0	7.4
2	*6515.00	101.4 AV			2.41 H	296	94.0	7.4
3	#13030.00	44.1 PK	88.2	-44.1	1.64 H	79	29.8	14.3
4	#13030.00	33.1 AV	68.2	-35.1	1.64 H	79	18.8	14.3
5	19545.00	49.0 PK	74.0	-25.0	1.77 H	75	55.2	-6.2
6	19545.00	37.2 AV	54.0	-16.8	1.77 H	75	43.4	-6.2
7	#26060.00	41.6 PK	88.2	-46.6	1.87 H	109	43.0	-1.4
8	#26060.00	32.4 AV	68.2	-35.8	1.87 H	109	33.8	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	111.2 PK			1.70 V	225	103.8	7.4
2	*6515.00	101.3 AV			1.70 V	225	93.9	7.4
3	#13030.00	45.4 PK	88.2	-42.8	1.35 V	155	31.1	14.3
4	#13030.00	33.9 AV	68.2	-34.3	1.35 V	155	19.6	14.3
5	19545.00	49.5 PK	74.0	-24.5	1.64 V	223	55.7	-6.2
6	19545.00	37.4 AV	54.0	-16.6	1.64 V	223	43.6	-6.2
7	#26060.00	42.2 PK	88.2	-46.0	2.22 V	154	43.6	-1.4
8	#26060.00	32.9 AV	68.2	-35.3	2.22 V	154	34.3	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 117：6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	111.8 PK			2.44 H	309	104.5	7.3
2	*6535.00	101.5 AV			2.44 H	309	94.2	7.3
3	#13070.00	44.2 PK	88.2	-44.0	1.59 H	89	29.8	14.4
4	#13070.00	33.3 AV	68.2	-34.9	1.59 H	89	18.9	14.4
5	19605.00	49.7 PK	74.0	-24.3	1.79 H	70	55.8	-6.1
6	19605.00	38.0 AV	54.0	-16.0	1.79 H	70	44.1	-6.1
7	#26140.00	41.6 PK	88.2	-46.6	1.86 H	109	42.9	-1.3
8	#26140.00	32.4 AV	68.2	-35.8	1.86 H	109	33.7	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	111.2 PK			1.64 V	234	103.9	7.3
2	*6535.00	101.4 AV			1.64 V	234	94.1	7.3
3	#13070.00	45.3 PK	88.2	-42.9	1.34 V	175	30.9	14.4
4	#13070.00	33.9 AV	68.2	-34.3	1.34 V	175	19.5	14.4
5	19605.00	50.0 PK	74.0	-24.0	1.72 V	229	56.1	-6.1
6	19605.00	37.7 AV	54.0	-16.3	1.72 V	229	43.8	-6.1
7	#26140.00	42.2 PK	88.2	-46.0	2.21 V	153	43.5	-1.3
8	#26140.00	32.9 AV	68.2	-35.3	2.21 V	153	34.2	-1.3

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 153：6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	111.0 PK			2.45 H	307	103.6	7.4
2	*6715.00	101.0 AV			2.45 H	307	93.6	7.4
3	#13430.00	45.5 PK	88.2	-42.7	1.65 H	96	30.3	15.2
4	#13430.00	34.0 AV	68.2	-34.2	1.65 H	96	18.8	15.2
5	20145.00	49.7 PK	74.0	-24.3	1.79 H	77	55.1	-5.4
6	20145.00	37.9 AV	54.0	-16.1	1.79 H	77	43.3	-5.4
7	#26860.00	41.4 PK	88.2	-46.8	1.81 H	107	42.5	-1.1
8	#26860.00	32.0 AV	68.2	-36.2	1.81 H	107	33.1	-1.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	111.1 PK			1.61 V	219	103.7	7.4
2	*6715.00	101.5 AV			1.61 V	219	94.1	7.4
3	#13430.00	45.4 PK	88.2	-42.8	1.34 V	155	30.2	15.2
4	#13430.00	33.8 AV	68.2	-34.4	1.34 V	155	18.6	15.2
5	20145.00	49.2 PK	74.0	-24.8	1.62 V	218	54.6	-5.4
6	20145.00	37.3 AV	54.0	-16.7	1.62 V	218	42.7	-5.4
7	#26860.00	42.5 PK	88.2	-45.7	2.17 V	130	43.6	-1.1
8	#26860.00	33.1 AV	68.2	-35.1	2.17 V	130	34.2	-1.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 181：6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	111.7 PK			2.35 H	321	104.2	7.5
2	*6855.00	101.4 AV			2.35 H	321	93.9	7.5
3	#13710.00	44.5 PK	88.2	-43.7	1.69 H	84	28.4	16.1
4	#13710.00	33.3 AV	68.2	-34.9	1.69 H	84	17.2	16.1
5	20565.00	49.6 PK	74.0	-24.4	1.80 H	50	54.5	-4.9
6	20565.00	37.6 AV	54.0	-16.4	1.80 H	50	42.5	-4.9
7	#27420.00	41.9 PK	88.2	-46.3	1.88 H	110	43.5	-1.6
8	#27420.00	32.7 AV	68.2	-35.5	1.88 H	110	34.3	-1.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	111.2 PK			1.61 V	242	103.7	7.5
2	*6855.00	101.3 AV			1.61 V	242	93.8	7.5
3	#13710.00	44.7 PK	88.2	-43.5	1.38 V	154	28.6	16.1
4	#13710.00	33.6 AV	68.2	-34.6	1.38 V	154	17.5	16.1
5	20565.00	50.0 PK	74.0	-24.0	1.67 V	209	54.9	-4.9
6	20565.00	37.6 AV	54.0	-16.4	1.67 V	209	42.5	-4.9
7	#27420.00	42.0 PK	88.2	-46.2	2.24 V	154	43.6	-1.6
8	#27420.00	32.5 AV	68.2	-35.7	2.24 V	154	34.1	-1.6

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 185：6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	111.7 PK			2.42 H	307	104.0	7.7
2	*6875.00	101.3 AV			2.42 H	307	93.6	7.7
3	#13750.00	45.0 PK	88.2	-43.2	1.61 H	91	28.9	16.1
4	#13750.00	33.9 AV	68.2	-34.3	1.61 H	91	17.8	16.1
5	20625.00	49.1 PK	74.0	-24.9	1.77 H	50	53.9	-4.8
6	20625.00	37.4 AV	54.0	-16.6	1.77 H	50	42.2	-4.8
7	#27500.00	41.7 PK	88.2	-46.5	1.89 H	126	42.9	-1.2
8	#27500.00	32.2 AV	68.2	-36.0	1.89 H	126	33.4	-1.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	111.5 PK			1.62 V	240	103.8	7.7
2	*6875.00	101.6 AV			1.62 V	240	93.9	7.7
3	#13750.00	45.3 PK	88.2	-42.9	1.27 V	173	29.2	16.1
4	#13750.00	33.8 AV	68.2	-34.4	1.27 V	173	17.7	16.1
5	20625.00	50.2 PK	74.0	-23.8	1.64 V	237	55.0	-4.8
6	20625.00	38.0 AV	54.0	-16.0	1.64 V	237	42.8	-4.8
7	#27500.00	42.6 PK	88.2	-45.6	2.23 V	141	43.8	-1.2
8	#27500.00	33.1 AV	68.2	-35.1	2.23 V	141	34.3	-1.2

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 213：7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	111.4 PK			2.41 H	321	102.4	9.0
2	*7015.00	101.3 AV			2.41 H	321	92.3	9.0
3	#14030.00	44.5 PK	88.2	-43.7	1.64 H	92	28.2	16.3
4	#14030.00	33.5 AV	68.2	-34.7	1.64 H	92	17.2	16.3
5	21045.00	49.7 PK	74.0	-24.3	1.78 H	69	54.1	-4.4
6	21045.00	37.7 AV	54.0	-16.3	1.78 H	69	42.1	-4.4
7	#28060.00	42.2 PK	88.2	-46.0	1.86 H	119	43.6	-1.4
8	#28060.00	32.5 AV	68.2	-35.7	1.86 H	119	33.9	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	111.0 PK			1.60 V	226	102.0	9.0
2	*7015.00	101.0 AV			1.60 V	226	92.0	9.0
3	#14030.00	45.2 PK	88.2	-43.0	1.36 V	172	28.9	16.3
4	#14030.00	33.7 AV	68.2	-34.5	1.36 V	172	17.4	16.3
5	21045.00	50.2 PK	74.0	-23.8	1.73 V	240	54.6	-4.4
6	21045.00	38.0 AV	54.0	-16.0	1.73 V	240	42.4	-4.4
7	#28060.00	42.4 PK	88.2	-45.8	2.17 V	141	43.8	-1.4
8	#28060.00	32.7 AV	68.2	-35.5	2.17 V	141	34.1	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 233：7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	96.9 PK			1.38 H	122	87.2	9.7
2	*7115.00	85.8 AV			1.38 H	122	76.1	9.7
3	#7125.00	77.4 PK	88.2	-10.8	1.38 H	122	67.7	9.7
4	#7125.00	67.8 AV	68.2	-0.4	1.38 H	122	58.1	9.7
5	#14230.00	44.7 PK	88.2	-43.5	1.59 H	84	27.4	17.3
6	#14230.00	33.6 AV	68.2	-34.6	1.59 H	84	16.3	17.3
7	21345.00	49.4 PK	74.0	-24.6	1.80 H	59	53.6	-4.2
8	21345.00	37.6 AV	54.0	-16.4	1.80 H	59	41.8	-4.2
9	#28460.00	42.2 PK	88.2	-46.0	1.86 H	109	43.6	-1.4
10	#28460.00	32.6 AV	68.2	-35.6	1.86 H	109	34.0	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	97.2 PK			1.51 V	261	87.5	9.7
2	*7115.00	86.1 AV			1.51 V	261	76.4	9.7
3	#7125.00	77.6 PK	88.2	-10.6	1.51 V	261	67.9	9.7
4	**#7125.00**	**68.0 AV**	**68.2**	**-0.2**	**1.51 V**	**261**	**58.3**	**9.7**
5	#14230.00	45.6 PK	88.2	-42.6	1.28 V	164	28.3	17.3
6	#14230.00	34.1 AV	68.2	-34.1	1.28 V	164	16.8	17.3
7	21345.00	49.8 PK	74.0	-24.2	1.73 V	228	54.0	-4.2
8	21345.00	37.5 AV	54.0	-16.5	1.73 V	228	41.7	-4.2
9	#28460.00	42.0 PK	88.2	-46.2	2.16 V	152	43.4	-1.4
10	#28460.00	32.4 AV	68.2	-35.8	2.16 V	152	33.8	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 35：6125 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	50.6 PK	88.2	-37.6	2.31 H	314	45.7	4.9
2	#5925.00	40.0 AV	68.2	-28.2	2.31 H	314	35.1	4.9
3	*6125.00	113.8 PK			2.31 H	314	108.5	5.3
4	*6125.00	101.5 AV			2.31 H	314	96.2	5.3
5	12250.00	45.0 PK	74.0	-29.0	1.55 H	84	30.9	14.1
6	12250.00	33.7 AV	54.0	-20.3	1.55 H	84	19.6	14.1
7	18375.00	49.9 PK	74.0	-24.1	1.79 H	74	57.1	-7.2
8	18375.00	37.8 AV	54.0	-16.2	1.79 H	74	45.0	-7.2
9	#24500.00	42.4 PK	88.2	-45.8	1.82 H	99	44.5	-2.1
10	#24500.00	32.8 AV	68.2	-35.4	1.82 H	99	34.9	-2.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	51.1 PK	88.2	-37.1	1.52 V	241	46.2	4.9
2	#5925.00	39.9 AV	68.2	-28.3	1.52 V	241	35.0	4.9
3	*6125.00	111.3 PK			1.52 V	241	106.0	5.3
4	*6125.00	99.6 AV			1.52 V	241	94.3	5.3
5	12250.00	45.7 PK	74.0	-28.3	1.28 V	165	31.6	14.1
6	12250.00	34.4 AV	54.0	-19.6	1.28 V	165	20.3	14.1
7	18375.00	50.1 PK	74.0	-23.9	1.73 V	236	57.3	-7.2
8	18375.00	37.8 AV	54.0	-16.2	1.73 V	236	45.0	-7.2
9	#24500.00	41.7 PK	88.2	-46.5	2.11 V	148	43.8	-2.1
10	#24500.00	32.2 AV	68.2	-36.0	2.11 V	148	34.3	-2.1

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 67：6285 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6285.00	113.4 PK			2.31 H	298	107.5	5.9
2	*6285.00	101.0 AV			2.31 H	298	95.1	5.9
3	12570.00	44.5 PK	74.0	-29.5	1.58 H	97	31.1	13.4
4	12570.00	33.1 AV	54.0	-20.9	1.58 H	97	19.7	13.4
5	18855.00	49.5 PK	74.0	-24.5	1.83 H	68	56.4	-6.9
6	18855.00	37.6 AV	54.0	-16.4	1.83 H	68	44.5	-6.9
7	#25140.00	42.3 PK	88.2	-45.9	1.83 H	108	43.8	-1.5
8	#25140.00	32.5 AV	68.2	-35.7	1.83 H	108	34.0	-1.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6285.00	111.1 PK			1.51 V	226	105.2	5.9
2	*6285.00	99.7 AV			1.51 V	226	93.8	5.9
3	12570.00	46.3 PK	74.0	-27.7	1.25 V	165	32.9	13.4
4	12570.00	34.6 AV	54.0	-19.4	1.25 V	165	21.2	13.4
5	18855.00	49.2 PK	74.0	-24.8	1.75 V	213	56.1	-6.9
6	18855.00	37.0 AV	54.0	-17.0	1.75 V	213	43.9	-6.9
7	#25140.00	41.9 PK	88.2	-46.3	2.13 V	151	43.4	-1.5
8	#25140.00	32.0 AV	68.2	-36.2	2.13 V	151	33.5	-1.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 91：6405 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	113.2 PK			2.30 H	313	106.8	6.4
2	*6405.00	101.0 AV			2.30 H	313	94.6	6.4
3	#12810.00	45.0 PK	88.2	-43.2	1.55 H	82	30.7	14.3
4	#12810.00	33.8 AV	68.2	-34.4	1.55 H	82	19.5	14.3
5	19215.00	49.7 PK	74.0	-24.3	1.84 H	65	56.4	-6.7
6	19215.00	37.8 AV	54.0	-16.2	1.84 H	65	44.5	-6.7
7	#25620.00	42.0 PK	88.2	-46.2	1.86 H	100	43.7	-1.7
8	#25620.00	32.2 AV	68.2	-36.0	1.86 H	100	33.9	-1.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	111.3 PK			1.56 V	231	104.9	6.4
2	*6405.00	99.4 AV			1.56 V	231	93.0	6.4
3	#12810.00	45.6 PK	88.2	-42.6	1.26 V	173	31.3	14.3
4	#12810.00	34.2 AV	68.2	-34.0	1.26 V	173	19.9	14.3
5	19215.00	49.8 PK	74.0	-24.2	1.76 V	213	56.5	-6.7
6	19215.00	37.8 AV	54.0	-16.2	1.76 V	213	44.5	-6.7
7	#25620.00	42.2 PK	88.2	-46.0	2.13 V	138	43.9	-1.7
8	#25620.00	32.9 AV	68.2	-35.3	2.13 V	138	34.6	-1.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 99：6445 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	113.3 PK			2.30 H	305	106.6	6.7
2	*6445.00	101.4 AV			2.30 H	305	94.7	6.7
3	#12890.00	44.9 PK	88.2	-43.3	1.58 H	69	31.0	13.9
4	#12890.00	33.9 AV	68.2	-34.3	1.58 H	69	20.0	13.9
5	19335.00	48.9 PK	74.0	-25.1	1.82 H	67	55.7	-6.8
6	19335.00	37.2 AV	54.0	-16.8	1.82 H	67	44.0	-6.8
7	#25780.00	42.0 PK	88.2	-46.2	1.89 H	93	43.4	-1.4
8	#25780.00	32.2 AV	68.2	-36.0	1.89 H	93	33.6	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	111.7 PK			1.49 V	247	105.0	6.7
2	*6445.00	99.7 AV			1.49 V	247	93.0	6.7
3	#12890.00	45.8 PK	88.2	-42.4	1.30 V	160	31.9	13.9
4	#12890.00	34.4 AV	68.2	-33.8	1.30 V	160	20.5	13.9
5	19335.00	49.4 PK	74.0	-24.6	1.70 V	217	56.2	-6.8
6	19335.00	37.4 AV	54.0	-16.6	1.70 V	217	44.2	-6.8
7	#25780.00	42.4 PK	88.2	-45.8	2.21 V	146	43.8	-1.4
8	#25780.00	32.9 AV	68.2	-35.3	2.21 V	146	34.3	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 107：6485 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	113.3 PK			2.34 H	308	106.2	7.1
2	*6485.00	101.0 AV			2.34 H	308	93.9	7.1
3	#12970.00	44.9 PK	88.2	-43.3	1.60 H	78	30.8	14.1
4	#12970.00	33.6 AV	68.2	-34.6	1.60 H	78	19.5	14.1
5	19455.00	48.8 PK	74.0	-25.2	1.79 H	44	55.4	-6.6
6	19455.00	37.1 AV	54.0	-16.9	1.79 H	44	43.7	-6.6
7	#25940.00	41.8 PK	88.2	-46.4	1.91 H	107	43.6	-1.8
8	#25940.00	32.2 AV	68.2	-36.0	1.91 H	107	34.0	-1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	110.8 PK			1.48 V	249	103.7	7.1
2	*6485.00	99.3 AV			1.48 V	249	92.2	7.1
3	#12970.00	45.6 PK	88.2	-42.6	1.26 V	172	31.5	14.1
4	#12970.00	34.2 AV	68.2	-34.0	1.26 V	172	20.1	14.1
5	19455.00	50.0 PK	74.0	-24.0	1.78 V	242	56.6	-6.6
6	19455.00	37.9 AV	54.0	-16.1	1.78 V	242	44.5	-6.6
7	#25940.00	42.3 PK	88.2	-45.9	2.13 V	145	44.1	-1.8
8	#25940.00	32.7 AV	68.2	-35.5	2.13 V	145	34.5	-1.8

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 115：6525 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	113.2 PK			2.25 H	310	105.9	7.3
2	*6525.00	101.1 AV			2.25 H	310	93.8	7.3
3	#13050.00	44.5 PK	88.2	-43.7	1.63 H	74	30.2	14.3
4	#13050.00	33.6 AV	68.2	-34.6	1.63 H	74	19.3	14.3
5	19575.00	49.2 PK	74.0	-24.8	1.86 H	51	55.4	-6.2
6	19575.00	37.1 AV	54.0	-16.9	1.86 H	51	43.3	-6.2
7	#26100.00	41.8 PK	88.2	-46.4	1.87 H	116	43.2	-1.4
8	#26100.00	32.2 AV	68.2	-36.0	1.87 H	116	33.6	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	111.3 PK			1.52 V	231	104.0	7.3
2	*6525.00	99.4 AV			1.52 V	231	92.1	7.3
3	#13050.00	45.6 PK	88.2	-42.6	1.33 V	179	31.3	14.3
4	#13050.00	34.3 AV	68.2	-33.9	1.33 V	179	20.0	14.3
5	19575.00	49.4 PK	74.0	-24.6	1.69 V	229	55.6	-6.2
6	19575.00	37.4 AV	54.0	-16.6	1.69 V	229	43.6	-6.2
7	#26100.00	41.9 PK	88.2	-46.3	2.19 V	167	43.3	-1.4
8	#26100.00	32.4 AV	68.2	-35.8	2.19 V	167	33.8	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 123：6565 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	113.2 PK			2.25 H	297	105.7	7.5
2	*6565.00	100.9 AV			2.25 H	297	93.4	7.5
3	#13130.00	44.7 PK	88.2	-43.5	1.64 H	75	30.0	14.7
4	#13130.00	33.8 AV	68.2	-34.4	1.64 H	75	19.1	14.7
5	19695.00	49.3 PK	74.0	-24.7	1.82 H	44	55.3	-6.0
6	19695.00	37.8 AV	54.0	-16.2	1.82 H	44	43.8	-6.0
7	#26260.00	42.3 PK	88.2	-45.9	1.82 H	96	43.7	-1.4
8	#26260.00	32.7 AV	68.2	-35.5	1.82 H	96	34.1	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	111.4 PK			1.51 V	239	103.9	7.5
2	*6565.00	99.5 AV			1.51 V	239	92.0	7.5
3	#13130.00	45.8 PK	88.2	-42.4	1.33 V	158	31.1	14.7
4	#13130.00	34.1 AV	68.2	-34.1	1.33 V	158	19.4	14.7
5	19695.00	49.9 PK	74.0	-24.1	1.68 V	235	55.9	-6.0
6	19695.00	37.7 AV	54.0	-16.3	1.68 V	235	43.7	-6.0
7	#26260.00	41.2 PK	88.2	-47.0	2.11 V	157	42.6	-1.4
8	#26260.00	31.9 AV	68.2	-36.3	2.11 V	157	33.3	-1.4

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 155：6725 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	113.3 PK			2.30 H	300	105.7	7.6
2	*6725.00	100.9 AV			2.30 H	300	93.3	7.6
3	#13450.00	44.1 PK	88.2	-44.1	1.55 H	89	28.9	15.2
4	#13450.00	33.1 AV	68.2	-35.1	1.55 H	89	17.9	15.2
5	20175.00	48.9 PK	74.0	-25.1	1.80 H	48	54.3	-5.4
6	20175.00	37.4 AV	54.0	-16.6	1.80 H	48	42.8	-5.4
7	#26900.00	42.3 PK	88.2	-45.9	1.86 H	125	43.6	-1.3
8	#26900.00	32.5 AV	68.2	-35.7	1.86 H	125	33.8	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	111.5 PK			1.51 V	257	103.9	7.6
2	*6725.00	99.8 AV			1.51 V	257	92.2	7.6
3	#13450.00	46.3 PK	88.2	-41.9	1.33 V	178	31.1	15.2
4	#13450.00	34.5 AV	68.2	-33.7	1.33 V	178	19.3	15.2
5	20175.00	49.5 PK	74.0	-24.5	1.70 V	227	54.9	-5.4
6	20175.00	37.2 AV	54.0	-16.8	1.70 V	227	42.6	-5.4
7	#26900.00	42.1 PK	88.2	-46.1	2.18 V	138	43.4	-1.3
8	#26900.00	32.7 AV	68.2	-35.5	2.18 V	138	34.0	-1.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 179：6845 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	113.2 PK			2.29 H	319	105.8	7.4
2	*6845.00	100.8 AV			2.29 H	319	93.4	7.4
3	#13690.00	44.4 PK	88.2	-43.8	1.57 H	75	28.3	16.1
4	#13690.00	33.3 AV	68.2	-34.9	1.57 H	75	17.2	16.1
5	20535.00	49.8 PK	74.0	-24.2	1.76 H	54	54.7	-4.9
6	20535.00	37.7 AV	54.0	-16.3	1.76 H	54	42.6	-4.9
7	#27380.00	42.8 PK	88.2	-45.4	1.92 H	93	44.5	-1.7
8	#27380.00	33.0 AV	68.2	-35.2	1.92 H	93	34.7	-1.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	111.0 PK			1.55 V	256	103.6	7.4
2	*6845.00	99.3 AV			1.55 V	256	91.9	7.4
3	#13690.00	45.8 PK	88.2	-42.4	1.25 V	177	29.7	16.1
4	#13690.00	34.0 AV	68.2	-34.2	1.25 V	177	17.9	16.1
5	20535.00	49.9 PK	74.0	-24.1	1.71 V	213	54.8	-4.9
6	20535.00	37.7 AV	54.0	-16.3	1.71 V	213	42.6	-4.9
7	#27380.00	42.3 PK	88.2	-45.9	2.19 V	167	44.0	-1.7
8	#27380.00	32.6 AV	68.2	-35.6	2.19 V	167	34.3	-1.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 187：6885 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	113.5 PK			2.24 H	310	105.8	7.7
2	*6885.00	101.4 AV			2.24 H	310	93.7	7.7
3	#13770.00	45.0 PK	88.2	-43.2	1.63 H	78	28.8	16.2
4	#13770.00	33.7 AV	68.2	-34.5	1.63 H	78	17.5	16.2
5	20655.00	49.0 PK	74.0	-25.0	1.81 H	65	53.9	-4.9
6	20655.00	37.4 AV	54.0	-16.6	1.81 H	65	42.3	-4.9
7	#27540.00	42.4 PK	88.2	-45.8	1.85 H	107	43.7	-1.3
8	#27540.00	32.6 AV	68.2	-35.6	1.85 H	107	33.9	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	110.8 PK			1.57 V	236	103.1	7.7
2	*6885.00	99.3 AV			1.57 V	236	91.6	7.7
3	#13770.00	45.6 PK	88.2	-42.6	1.31 V	162	29.4	16.2
4	#13770.00	34.0 AV	68.2	-34.2	1.31 V	162	17.8	16.2
5	20655.00	49.9 PK	74.0	-24.1	1.68 V	219	54.8	-4.9
6	20655.00	37.5 AV	54.0	-16.5	1.68 V	219	42.4	-4.9
7	#27540.00	42.7 PK	88.2	-45.5	2.20 V	149	44.0	-1.3
8	#27540.00	32.9 AV	68.2	-35.3	2.20 V	149	34.2	-1.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 211：7005 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	113.1 PK			2.29 H	323	104.3	8.8
2	*7005.00	101.2 AV			2.29 H	323	92.4	8.8
3	#14010.00	44.4 PK	88.2	-43.8	1.58 H	99	28.2	16.2
4	#14010.00	33.5 AV	68.2	-34.7	1.58 H	99	17.3	16.2
5	21015.00	49.7 PK	74.0	-24.3	1.78 H	47	54.1	-4.4
6	21015.00	37.8 AV	54.0	-16.2	1.78 H	47	42.2	-4.4
7	#28020.00	41.9 PK	88.2	-46.3	1.81 H	95	43.2	-1.3
8	#28020.00	32.3 AV	68.2	-35.9	1.81 H	95	33.6	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	111.4 PK			1.50 V	248	102.6	8.8
2	*7005.00	99.4 AV			1.50 V	248	90.6	8.8
3	#14010.00	45.7 PK	88.2	-42.5	1.24 V	174	29.5	16.2
4	#14010.00	34.4 AV	68.2	-33.8	1.24 V	174	18.2	16.2
5	21015.00	50.2 PK	74.0	-23.8	1.77 V	237	54.6	-4.4
6	21015.00	37.7 AV	54.0	-16.3	1.77 V	237	42.1	-4.4
7	#28020.00	41.4 PK	88.2	-46.8	2.11 V	147	42.7	-1.3
8	#28020.00	32.1 AV	68.2	-36.1	2.11 V	147	33.4	-1.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 227：7085 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	109.5 PK			1.65 H	325	100.0	9.5
2	*7085.00	100.5 AV			1.65 H	325	91.0	9.5
3	#7125.00	56.7 PK	88.2	-31.5	1.65 H	325	47.0	9.7
4	#7125.00	45.2 AV	68.2	-23.0	1.65 H	325	35.5	9.7
5	#14170.00	45.1 PK	88.2	-43.1	1.58 H	99	28.1	17.0
6	#14170.00	33.7 AV	68.2	-34.5	1.58 H	99	16.7	17.0
7	21255.00	49.8 PK	74.0	-24.2	1.83 H	61	54.0	-4.2
8	21255.00	37.9 AV	54.0	-16.1	1.83 H	61	42.1	-4.2
9	#28340.00	42.3 PK	88.2	-45.9	1.81 H	120	43.6	-1.3
10	#28340.00	32.9 AV	68.2	-35.3	1.81 H	120	34.2	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	110.2 PK			1.50 V	245	100.7	9.5
2	*7085.00	98.9 AV			1.50 V	245	89.4	9.5
3	#7125.00	55.3 PK	88.2	-32.9	1.50 V	245	45.6	9.7
4	#7125.00	45.1 AV	68.2	-23.1	1.50 V	245	35.4	9.7
5	8340.00	42.6 PK	74.0	-31.4	2.17 V	166	33.0	9.6
6	8340.00	32.8 AV	54.0	-21.2	2.17 V	166	23.2	9.6
7	#14170.00	46.1 PK	88.2	-42.1	1.24 V	149	29.1	17.0
8	#14170.00	34.4 AV	68.2	-33.8	1.24 V	149	17.4	17.0
9	21255.00	49.9 PK	74.0	-24.1	1.78 V	225	54.1	-4.2
10	21255.00	37.6 AV	54.0	-16.4	1.78 V	225	41.8	-4.2

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 39：6145 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	50.8 PK	88.2	-37.4	2.34 H	315	45.9	4.9
2	#5925.00	39.8 AV	68.2	-28.4	2.34 H	315	34.9	4.9
3	*6145.00	111.7 PK			2.34 H	315	106.5	5.2
4	*6145.00	99.9 AV			2.34 H	315	94.7	5.2
5	12290.00	44.9 PK	74.0	-29.1	1.57 H	98	30.8	14.1
6	12290.00	33.2 AV	54.0	-20.8	1.57 H	98	19.1	14.1
7	18435.00	49.5 PK	74.0	-24.5	1.83 H	56	56.7	-7.2
8	18435.00	37.4 AV	54.0	-16.6	1.83 H	56	44.6	-7.2
9	#24580.00	42.6 PK	88.2	-45.6	1.79 H	119	44.5	-1.9
10	#24580.00	33.2 AV	68.2	-35.0	1.79 H	119	35.1	-1.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	50.8 PK	88.2	-37.4	1.50 V	240	45.9	4.9
2	#5925.00	39.9 AV	68.2	-28.3	1.50 V	240	35.0	4.9
3	*6145.00	110.9 PK			1.50 V	240	105.7	5.2
4	*6145.00	99.3 AV			1.50 V	240	94.1	5.2
5	12290.00	45.6 PK	74.0	-28.4	1.27 V	153	31.5	14.1
6	12290.00	34.2 AV	54.0	-19.8	1.27 V	153	20.1	14.1
7	18435.00	50.1 PK	74.0	-23.9	1.73 V	238	57.3	-7.2
8	18435.00	37.6 AV	54.0	-16.4	1.73 V	238	44.8	-7.2
9	#24580.00	42.6 PK	88.2	-45.6	2.14 V	153	44.5	-1.9
10	#24580.00	32.6 AV	68.2	-35.6	2.14 V	153	34.5	-1.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 55：6225 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6225.00	111.5 PK			2.31 H	300	106.0	5.5
2	*6225.00	99.8 AV			2.31 H	300	94.3	5.5
3	12450.00	44.7 PK	74.0	-29.3	1.62 H	98	31.7	13.0
4	12450.00	33.4 AV	54.0	-20.6	1.62 H	98	20.4	13.0
5	18675.00	50.1 PK	74.0	-23.9	1.89 H	55	57.0	-6.9
6	18675.00	38.0 AV	54.0	-16.0	1.89 H	55	44.9	-6.9
7	#24900.00	41.6 PK	88.2	-46.6	1.85 H	104	43.4	-1.8
8	#24900.00	32.5 AV	68.2	-35.7	1.85 H	104	34.3	-1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6225.00	111.4 PK			1.51 V	249	105.9	5.5
2	*6225.00	99.8 AV			1.51 V	249	94.3	5.5
3	12450.00	46.0 PK	74.0	-28.0	1.27 V	151	33.0	13.0
4	12450.00	34.5 AV	54.0	-19.5	1.27 V	151	21.5	13.0
5	18675.00	49.6 PK	74.0	-24.4	1.73 V	232	56.5	-6.9
6	18675.00	37.5 AV	54.0	-16.5	1.73 V	232	44.4	-6.9
7	#24900.00	42.3 PK	88.2	-45.9	2.17 V	151	44.1	-1.8
8	#24900.00	32.5 AV	68.2	-35.7	2.17 V	151	34.3	-1.8

Remarks:

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