FCC Test Report

Report No.:	RFBARR-WTW-P20110181B-5
FCC ID:	RAS-MT7921K
Test Model:	MT7921K
Received Date:	Jan. 08, 2021
Test Date:	Jan. 08 to 12, 2021
Issued Date:	Feb. 02, 2021
Applicant:	MediaTek Inc.
Address:	No. 1, Duxing 1st Rd., East District, Hsinchu City 300, Taiwan
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

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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P20110181B-5	Original release.	Feb. 02, 2021

1 Certificate of Conformity

Product:	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand:	MediaTek
Test Model:	MT7921K
Sample Status:	Engineering sample
Applicant:	MediaTek Inc.
Test Date:	Jan. 08 to 12, 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 : Vivian Huang , **Date:** Feb. 02, 2021

Vivian Huang / Specialist

Approved by : , **Date:** Feb. 02, 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	N/A	Refer to Note 1 below
15.407(b)(5) (8)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -2.2 dB at 7125.00 MHz.
15.407(b)(6)	In-Band Emission (Mask)	N/A	Refer to Note 1 below
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	N/A	Refer to Note 1 below
15.407(a) (4/5/6/7/8)	Peak Power Spectral Density	N/A	Refer to Note 1 below
15.407 (d)(6)	Contention-based Protocol.	N/A	Refer to Note 1 below
15.407(g)	Frequency Stability	N/A	Refer to Note 1 below
15.407(a)(7) (8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	PASS	Declaration by applicant
15.203	Antenna Requirement	PASS	Antenna connector is R-SMA or i-pex(MHF) not a standard connector.

Note:
1. Radiated Emissions and Max Average Transmit Power were performed for this addendum. The others testing data refer to original test report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
3. This report is prepared for supplementary report.

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) (±)
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7921K
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	**2.4GHz:** 2.412 ~ 2.472GHz **5GHz:** 5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz **6GHz:** 5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 **6GHz:** 802.11ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14
Output Power	**2.412 ~ 2.472 GHz:** 815.903 mW **5.18 ~ 5.24 GHz:** 143.816 mW **5.26 ~ 5.32GHz:** 147.866 mW **5.5 ~ 5.72GHz:** 156.514 mW **5.745 ~ 5.825 GHz:** 193.138 mW **5.955 ~ 6.415GHz:** 10.446 mW (EIRP: 14.95 dBm / 31.26 mW) **6.435 ~ 6.525GHz:** 10.988 mW (EIRP: 14.70 dBm / 29.512 mW) **6.525 ~ 6.875GHz:** 10.743 mW (EIRP: 14.92 dBm / 31.046 mW) **6.875 ~ 7.115GHz:** 11.986 mW (EIRP: 14.88 dBm / 30.761 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II change. The difference compared with the Report No.: RF200814E08-5 as the following:
   - ◆ Added antenna set 4.
2. According to above conditions, therefore only Radiated Emissions Measurement and Max Average Transmit Power test items for PIFA antenna (Ant. Set 4) need to be performed, and all data was verified to meet the requirements.
3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz / 6GHz)	Bluetooth
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

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

Original

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
2	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
3	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-

Newly

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
4	Chain0	PSA	RFMTA311020EMMB301_V02	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020EMMB301_V02	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
Note: Ant. Set 4 was selected for the final test.										

5. The EUT incorporates a MIMO function:

2.4GHZ BAND		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
5GHz Band		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
6GHz Band		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note:
1. The EUT doesn't support beamforming function.
2. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MH, 80MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

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

3.2 Description of Test Modes

FOR 5925 ~ 6425MHz (U-NII-5 band)

24 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
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

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

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

5 channels are provided for 802.11a, 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

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

18 channels are provided for 802.11a, 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

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

12 channels are provided for 802.11a, 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

Note: * mean this's straddle channel.

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To		Description
	RE≥1G	APCM	
-	√	√	With PIFA antenna (Ant. Set 4)

Where **RE≥1G:** Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

Note: **In original report, t**he EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission 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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 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, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5965-6405	3 to 91	3, 43, 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)	5985-6385	7 to 87	7, 39, 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

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	5985-6385 6465-6525 6525-6875 6875-7025	7 to 87 103 to 119 119 to 183 183 to 215	7	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

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

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 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, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5965-6405	3 to 91	3, 43, 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)	5985-6385	7 to 87	7, 39, 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

Test Condition:

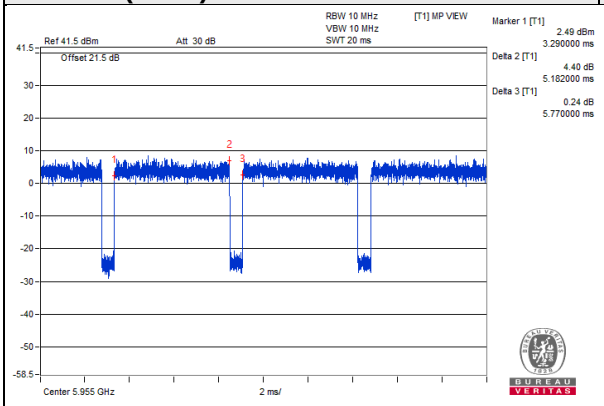
Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE≥1G	20deg. C, 70%RH	120Vac, 60Hz	Ryan Du
RE<1G	24deg. C, 68%RH	120Vac, 60Hz	Tom Yang
APCM	21deg. C, 60%RH	120Vac, 60Hz	Anderson Chen

3.3 Duty Cycle of Test Signal

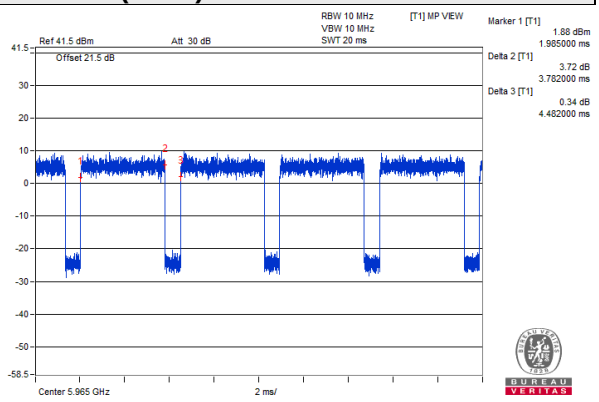
Duty cycle of test signal is < 98 %, duty factor is required

802.11ax (HE20): Duty cycle = 5.182 ms/5.77 ms= 0.898, Duty factor = 10 * log(1/ Duty cycle) = 0.47 dB
802.11ax (HE40): Duty cycle = 3.782 ms/4.482 ms= 0.844, Duty factor = 10 * log(1/ Duty cycle) = 0.74 dB
802.11ax (HE80): Duty cycle = 1.841 ms/2.534 ms= 0.727, Duty factor = 10 * log(1/ Duty cycle) = 1.39 dB

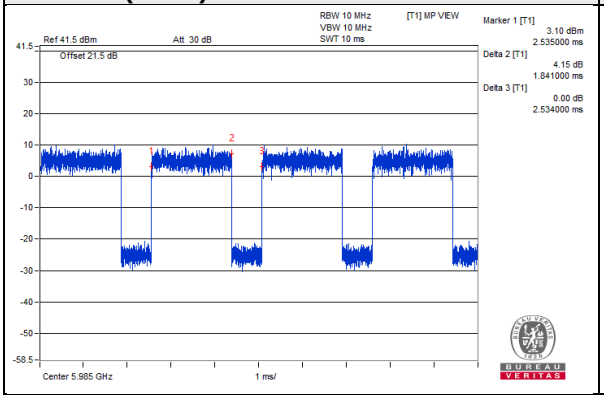
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



3.4 Description of Support Units

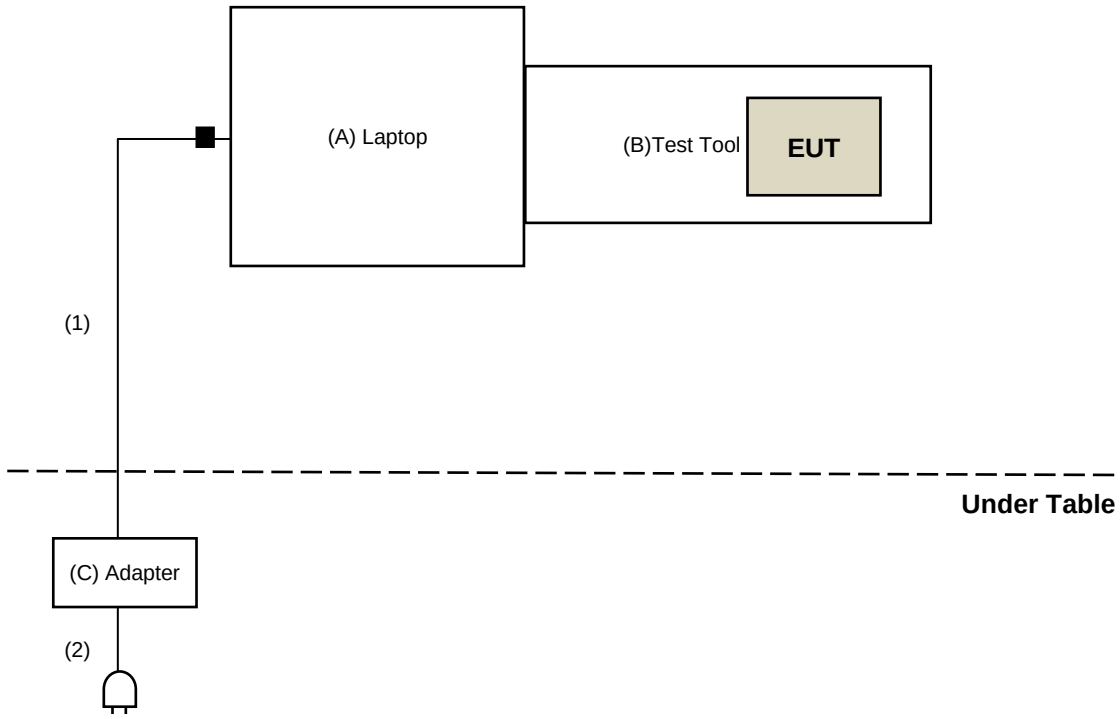
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

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

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

3.4.1 Configuration of System under Test



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 & BandEdge 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	5D-FB	LOOPCAB-001	Jan. 07, 2021	Jan. 06, 2022
RF Cable	5D-FB	LOOPCAB-002	Jan. 07, 2021	Jan. 06, 2022
Pre-Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	Oct. 20, 2020	Oct. 19, 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: Jan. 08 to 09, 2021

For other test item:

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

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Jan. 12, 2021

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.

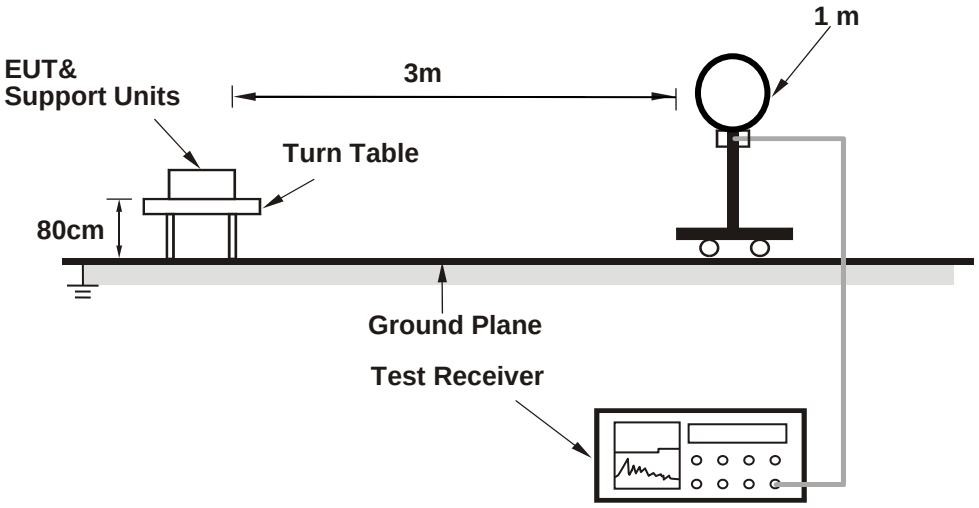
f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

Note:

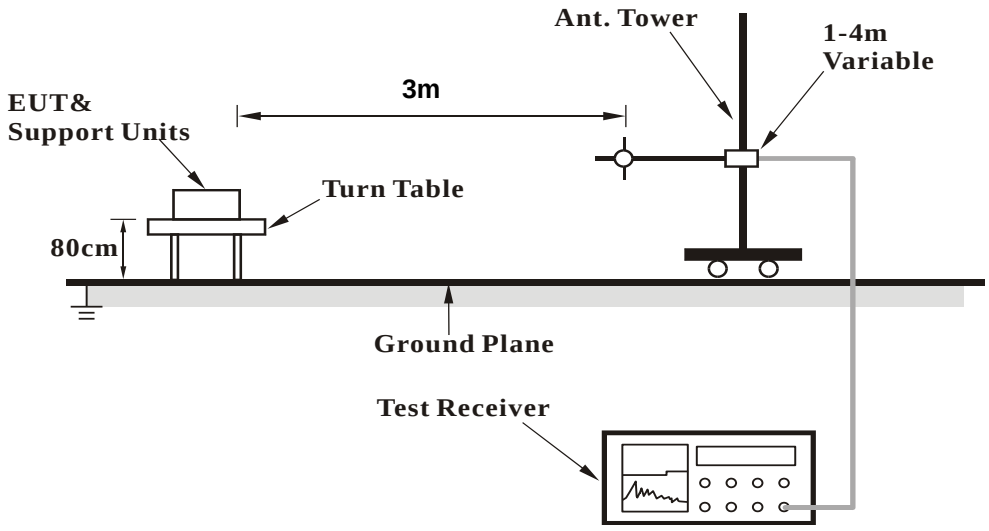
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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

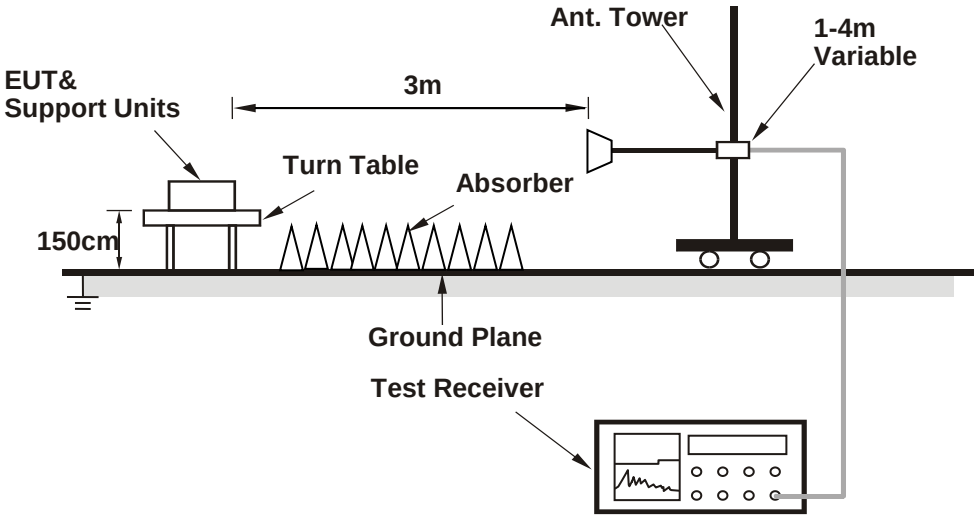
For Radiated emission below 30MHz



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. Placed the EUT on the testing table.
b. Controlling software (MT7961 QA 0.0.2.33) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.6 Test Results

Above 1GHz Data:

RF Mode	TX 802.11ax (HE20)	Channel	CH 1：5955 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	3820.00	55.2 PK	74.0	-18.8	1.67 H	281	54.1	1.1
2	3820.00	43.0 AV	54.0	-11.0	1.67 H	281	41.9	1.1
3	#5925.00	51.1 PK	88.2	-37.1	1.44 H	8	46.0	5.1
4	#5925.00	41.4 AV	68.2	-26.8	1.44 H	8	36.3	5.1
5	*5955.00	97.2 PK			1.44 H	8	91.9	5.3
6	*5955.00	86.8 AV			1.44 H	8	81.5	5.3
7	11910.00	46.0 PK	74.0	-28.0	2.60 H	179	32.2	13.8
8	11910.00	36.1 AV	54.0	-17.9	2.60 H	179	22.3	13.8
9	17865.00	52.0 PK	74.0	-22.0	1.70 H	260	31.5	20.5
10	17865.00	40.0 AV	54.0	-14.0	1.70 H	260	19.5	20.5
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	#5925.00	51.3 PK	88.2	-36.9	3.01 V	310	46.2	5.1
2	#5925.00	41.1 AV	68.2	-27.1	3.01 V	310	36.0	5.1
3	*5955.00	93.5 PK			3.01 V	310	88.2	5.3
4	*5955.00	83.4 AV			3.01 V	310	78.1	5.3
5	11910.00	44.6 PK	74.0	-29.4	2.88 V	320	30.8	13.8
6	11910.00	35.6 AV	54.0	-18.4	2.88 V	320	21.8	13.8
7	17865.00	51.9 PK	74.0	-22.1	2.09 V	197	31.4	20.5
8	17865.00	40.6 AV	54.0	-13.4	2.09 V	197	20.1	20.5
9	23820.00	55.6 PK	74.0	-18.4	1.91 V	118	58.9	-3.3
10	23820.00	43.9 AV	54.0	-10.1	1.91 V	118	47.2	-3.3

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 45：6175 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	*6175.00	97.3 PK			1.41 H	12	91.8	5.5
2	*6175.00	86.6 AV			1.41 H	12	81.1	5.5
3	12350.00	46.0 PK	74.0	-28.0	2.58 H	184	32.3	13.7
4	12350.00	36.0 AV	54.0	-18.0	2.58 H	184	22.3	13.7
5	18525.00	51.9 PK	74.0	-22.1	1.65 H	247	58.9	-7.0
6	18525.00	40.1 AV	54.0	-13.9	1.65 H	247	47.1	-7.0
7	#24700.00	55.0 PK	88.2	-33.2	1.72 H	270	57.2	-2.2
8	#24700.00	43.0 AV	68.2	-25.2	1.72 H	270	45.2	-2.2
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	*6175.00	93.5 PK			3.02 V	298	88.0	5.5
2	*6175.00	83.5 AV			3.02 V	298	78.0	5.5
3	12350.00	45.3 PK	74.0	-28.7	2.83 V	319	31.6	13.7
4	12350.00	36.0 AV	54.0	-18.0	2.83 V	319	22.3	13.7
5	18525.00	51.4 PK	74.0	-22.6	2.10 V	205	58.4	-7.0
6	18525.00	40.3 AV	54.0	-13.7	2.10 V	205	47.3	-7.0
7	#24700.00	55.7 PK	88.2	-32.5	1.92 V	111	57.9	-2.2
8	#24700.00	44.3 AV	68.2	-23.9	1.92 V	111	46.5	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	96.8 PK			1.50 H	6	90.1	6.7
2	*6415.00	86.5 AV			1.50 H	6	79.8	6.7
3	#12830.00	46.3 PK	88.2	-41.9	2.64 H	187	31.8	14.5
4	#12830.00	36.3 AV	68.2	-31.9	2.64 H	187	21.8	14.5
5	19245.00	51.8 PK	74.0	-22.2	1.69 H	252	58.6	-6.8
6	19245.00	39.8 AV	54.0	-14.2	1.69 H	252	46.6	-6.8
7	#25660.00	55.5 PK	88.2	-32.7	1.69 H	271	57.0	-1.5
8	#25660.00	43.0 AV	68.2	-25.2	1.69 H	271	44.5	-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	*6415.00	93.4 PK			2.95 V	300	86.7	6.7
2	*6415.00	83.4 AV			2.95 V	300	76.7	6.7
3	#12830.00	44.2 PK	88.2	-44.0	2.86 V	329	29.7	14.5
4	#12830.00	35.4 AV	68.2	-32.8	2.86 V	329	20.9	14.5
5	19245.00	52.2 PK	74.0	-21.8	2.03 V	204	59.0	-6.8
6	19245.00	40.6 AV	54.0	-13.4	2.03 V	204	47.4	-6.8
7	#25660.00	55.5 PK	88.2	-32.7	1.90 V	134	57.0	-1.5
8	#25660.00	43.8 AV	68.2	-24.4	1.90 V	134	45.3	-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 (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	96.0 PK			1.39 H	5	89.1	6.9
2	*6435.00	85.6 AV			1.39 H	5	78.7	6.9
3	#12870.00	45.6 PK	88.2	-42.6	2.60 H	177	31.3	14.3
4	#12870.00	36.0 AV	68.2	-32.2	2.60 H	177	21.7	14.3
5	19305.00	52.4 PK	74.0	-21.6	1.64 H	274	59.2	-6.8
6	19305.00	40.4 AV	54.0	-13.6	1.64 H	274	47.2	-6.8
7	#25740.00	55.7 PK	88.2	-32.5	1.71 H	286	56.9	-1.2
8	#25740.00	43.3 AV	68.2	-24.9	1.71 H	286	44.5	-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	*6435.00	92.6 PK			2.98 V	316	85.7	6.9
2	*6435.00	82.5 AV			2.98 V	316	75.6	6.9
3	#12870.00	44.2 PK	88.2	-44.0	2.83 V	310	29.9	14.3
4	#12870.00	35.4 AV	68.2	-32.8	2.83 V	310	21.1	14.3
5	19305.00	52.0 PK	74.0	-22.0	2.13 V	202	58.8	-6.8
6	19305.00	40.9 AV	54.0	-13.1	2.13 V	202	47.7	-6.8
7	#25740.00	55.2 PK	88.2	-33.0	1.86 V	117	56.4	-1.2
8	#25740.00	43.5 AV	68.2	-24.7	1.86 V	117	44.7	-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 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	95.8 PK			1.36 H	22	88.6	7.2
2	*6475.00	85.1 AV			1.36 H	22	77.9	7.2
3	#12950.00	46.3 PK	88.2	-41.9	2.58 H	181	31.9	14.4
4	#12950.00	36.3 AV	68.2	-31.9	2.58 H	181	21.9	14.4
5	19425.00	51.8 PK	74.0	-22.2	1.72 H	262	58.6	-6.8
6	19425.00	39.6 AV	54.0	-14.4	1.72 H	262	46.4	-6.8
7	#25900.00	54.8 PK	88.2	-33.4	1.63 H	281	56.6	-1.8
8	#25900.00	42.7 AV	68.2	-25.5	1.63 H	281	44.5	-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	*6475.00	92.7 PK			3.03 V	309	85.5	7.2
2	*6475.00	82.4 AV			3.03 V	309	75.2	7.2
3	#12950.00	44.7 PK	88.2	-43.5	2.86 V	320	30.3	14.4
4	#12950.00	36.0 AV	68.2	-32.2	2.86 V	320	21.6	14.4
5	19425.00	51.6 PK	74.0	-22.4	2.11 V	196	58.4	-6.8
6	19425.00	40.2 AV	54.0	-13.8	2.11 V	196	47.0	-6.8
7	#25900.00	55.4 PK	88.2	-32.8	1.90 V	107	57.2	-1.8
8	#25900.00	43.9 AV	68.2	-24.3	1.90 V	107	45.7	-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 (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	95.5 PK			1.42 H	20	88.0	7.5
2	*6515.00	84.6 AV			1.42 H	20	77.1	7.5
3	#13030.00	46.5 PK	88.2	-41.7	2.63 H	178	31.8	14.7
4	#13030.00	36.4 AV	68.2	-31.8	2.63 H	178	21.7	14.7
5	19545.00	52.4 PK	74.0	-21.6	1.73 H	257	58.7	-6.3
6	19545.00	40.3 AV	54.0	-13.7	1.73 H	257	46.6	-6.3
7	#26060.00	55.0 PK	88.2	-33.2	1.71 H	297	56.2	-1.2
8	#26060.00	42.7 AV	68.2	-25.5	1.71 H	297	43.9	-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	*6515.00	91.6 PK			3.38 V	325	84.1	7.5
2	*6515.00	81.5 AV			3.38 V	325	74.0	7.5
3	#13030.00	44.1 PK	88.2	-44.1	2.88 V	309	29.4	14.7
4	#13030.00	35.1 AV	68.2	-33.1	2.88 V	309	20.4	14.7
5	19545.00	52.3 PK	74.0	-21.7	2.13 V	205	58.6	-6.3
6	19545.00	40.9 AV	54.0	-13.1	2.13 V	205	47.2	-6.3
7	#26060.00	55.9 PK	88.2	-32.3	1.88 V	121	57.1	-1.2
8	#26060.00	44.2 AV	68.2	-24.0	1.88 V	121	45.4	-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 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	94.7 PK			1.39 H	23	87.1	7.6
2	*6535.00	83.5 AV			1.39 H	23	75.9	7.6
3	#13070.00	45.7 PK	88.2	-42.5	2.58 H	170	30.8	14.9
4	#13070.00	35.8 AV	68.2	-32.4	2.58 H	170	20.9	14.9
5	19605.00	52.4 PK	74.0	-21.6	1.75 H	262	58.6	-6.2
6	19605.00	40.1 AV	54.0	-13.9	1.75 H	262	46.3	-6.2
7	#26140.00	54.8 PK	88.2	-33.4	1.69 H	269	55.9	-1.1
8	#26140.00	42.5 AV	68.2	-25.7	1.69 H	269	43.6	-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	*6535.00	90.7 PK			3.36 V	309	83.1	7.6
2	*6535.00	80.3 AV			3.36 V	309	72.7	7.6
3	#13070.00	44.6 PK	88.2	-43.6	2.89 V	311	29.7	14.9
4	#13070.00	35.8 AV	68.2	-32.4	2.89 V	311	20.9	14.9
5	19605.00	51.7 PK	74.0	-22.3	2.07 V	205	57.9	-6.2
6	19605.00	40.2 AV	54.0	-13.8	2.07 V	205	46.4	-6.2
7	#26140.00	55.9 PK	88.2	-32.3	1.94 V	124	57.0	-1.1
8	#26140.00	44.1 AV	68.2	-24.1	1.94 V	124	45.2	-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 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	94.7 PK			1.43 H	39	87.0	7.7
2	*6715.00	83.3 AV			1.43 H	39	75.6	7.7
3	#13430.00	46.5 PK	88.2	-41.7	2.60 H	182	31.0	15.5
4	#13430.00	36.6 AV	68.2	-31.6	2.60 H	182	21.1	15.5
5	20145.00	52.4 PK	74.0	-21.6	1.72 H	254	58.0	-5.6
6	20145.00	40.3 AV	54.0	-13.7	1.72 H	254	45.9	-5.6
7	#26860.00	55.3 PK	88.2	-32.9	1.67 H	293	56.4	-1.1
8	#26860.00	43.1 AV	68.2	-25.1	1.67 H	293	44.2	-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	90.3 PK			3.39 V	322	82.6	7.7
2	*6715.00	80.1 AV			3.39 V	322	72.4	7.7
3	#13430.00	44.3 PK	88.2	-43.9	2.85 V	313	28.8	15.5
4	#13430.00	35.3 AV	68.2	-32.9	2.85 V	313	19.8	15.5
5	20145.00	52.3 PK	74.0	-21.7	2.07 V	186	57.9	-5.6
6	20145.00	41.0 AV	54.0	-13.0	2.07 V	186	46.6	-5.6
7	#26860.00	55.9 PK	88.2	-32.3	1.94 V	130	57.0	-1.1
8	#26860.00	44.1 AV	68.2	-24.1	1.94 V	130	45.2	-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	96.0 PK			1.67 H	26	88.2	7.8
2	*6855.00	85.4 AV			1.67 H	26	77.6	7.8
3	#13710.00	45.7 PK	88.2	-42.5	2.55 H	170	29.1	16.6
4	#13710.00	36.0 AV	68.2	-32.2	2.55 H	170	19.4	16.6
5	20565.00	52.2 PK	74.0	-21.8	1.72 H	246	57.2	-5.0
6	20565.00	40.2 AV	54.0	-13.8	1.72 H	246	45.2	-5.0
7	#27420.00	55.3 PK	88.2	-32.9	1.69 H	278	57.1	-1.8
8	#27420.00	42.9 AV	68.2	-25.3	1.69 H	278	44.7	-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	*6855.00	91.8 PK			3.39 V	303	84.0	7.8
2	*6855.00	82.2 AV			3.39 V	303	74.4	7.8
3	#13710.00	44.9 PK	88.2	-43.3	2.83 V	305	28.3	16.6
4	#13710.00	35.9 AV	68.2	-32.3	2.83 V	305	19.3	16.6
5	20565.00	52.2 PK	74.0	-21.8	2.14 V	201	57.2	-5.0
6	20565.00	40.7 AV	54.0	-13.3	2.14 V	201	45.7	-5.0
7	#27420.00	55.6 PK	88.2	-32.6	1.88 V	119	57.4	-1.8
8	#27420.00	43.8 AV	68.2	-24.4	1.88 V	119	45.6	-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 (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	96.2 PK			1.69 H	11	88.2	8.0
2	*6875.00	85.4 AV			1.69 H	11	77.4	8.0
3	#13750.00	46.0 PK	88.2	-42.2	2.58 H	174	29.4	16.6
4	#13750.00	35.9 AV	68.2	-32.3	2.58 H	174	19.3	16.6
5	20625.00	51.9 PK	74.0	-22.1	1.71 H	260	56.8	-4.9
6	20625.00	39.9 AV	54.0	-14.1	1.71 H	260	44.8	-4.9
7	#27500.00	54.7 PK	88.2	-33.5	1.67 H	291	56.1	-1.4
8	#27500.00	42.6 AV	68.2	-25.6	1.67 H	291	44.0	-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	*6875.00	91.9 PK			3.43 V	316	83.9	8.0
2	*6875.00	82.0 AV			3.43 V	316	74.0	8.0
3	#13750.00	44.7 PK	88.2	-43.5	2.90 V	313	28.1	16.6
4	#13750.00	35.8 AV	68.2	-32.4	2.90 V	313	19.2	16.6
5	20625.00	52.4 PK	74.0	-21.6	2.04 V	207	57.3	-4.9
6	20625.00	40.8 AV	54.0	-13.2	2.04 V	207	45.7	-4.9
7	#27500.00	55.6 PK	88.2	-32.6	1.95 V	125	57.0	-1.4
8	#27500.00	43.8 AV	68.2	-24.4	1.95 V	125	45.2	-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 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	96.5 PK			1.63 H	3	87.6	8.9
2	*7015.00	86.3 AV			1.63 H	3	77.4	8.9
3	#14030.00	45.9 PK	88.2	-42.3	2.59 H	169	29.2	16.7
4	#14030.00	35.9 AV	68.2	-32.3	2.59 H	169	19.2	16.7
5	21045.00	52.3 PK	74.0	-21.7	1.66 H	250	56.9	-4.6
6	21045.00	40.3 AV	54.0	-13.7	1.66 H	250	44.9	-4.6
7	#28060.00	54.5 PK	88.2	-33.7	1.68 H	284	56.4	-1.9
8	#28060.00	42.6 AV	68.2	-25.6	1.68 H	284	44.5	-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	*7015.00	93.3 PK			3.44 V	342	84.4	8.9
2	*7015.00	83.4 AV			3.44 V	342	74.5	8.9
3	#14030.00	43.8 PK	88.2	-44.4	2.85 V	325	27.1	16.7
4	#14030.00	35.1 AV	68.2	-33.1	2.85 V	325	18.4	16.7
5	21045.00	51.1 PK	74.0	-22.9	2.08 V	204	55.7	-4.6
6	21045.00	40.1 AV	54.0	-13.9	2.08 V	204	44.7	-4.6
7	#28060.00	55.5 PK	88.2	-32.7	1.91 V	106	57.4	-1.9
8	#28060.00	43.8 AV	68.2	-24.4	1.91 V	106	45.7	-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 (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			1.60 H	12	86.9	10.0
2	*7115.00	86.7 AV			1.60 H	12	76.7	10.0
3	#7125.00	78.5 PK	88.2	-9.7	1.60 H	12	68.5	10.0
4	**#7125.00**	**66.0 AV**	**68.2**	**-2.2**	**1.60 H**	**12**	**56.0**	**10.0**
5	#14230.00	46.3 PK	88.2	-41.9	2.56 H	169	28.4	17.9
6	#14230.00	36.2 AV	68.2	-32.0	2.56 H	169	18.3	17.9
7	21345.00	52.4 PK	74.0	-21.6	1.69 H	257	56.8	-4.4
8	21345.00	40.3 AV	54.0	-13.7	1.69 H	257	44.7	-4.4
9	#28460.00	55.4 PK	88.2	-32.8	1.71 H	277	57.4	-2.0
10	#28460.00	43.3 AV	68.2	-24.9	1.71 H	277	45.3	-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	*7115.00	93.6 PK			3.44 V	332	83.6	10.0
2	*7115.00	83.8 AV			3.44 V	332	73.8	10.0
3	#7125.00	73.3 PK	88.2	-14.9	3.44 V	332	63.3	10.0
4	#7125.00	58.6 AV	68.2	-9.6	3.44 V	332	48.6	10.0
5	#14230.00	44.5 PK	88.2	-43.7	2.86 V	319	26.6	17.9
6	#14230.00	35.8 AV	68.2	-32.4	2.86 V	319	17.9	17.9
7	21345.00	51.8 PK	74.0	-22.2	2.07 V	202	56.2	-4.4
8	21345.00	40.4 AV	54.0	-13.6	2.07 V	202	44.8	-4.4
9	#28460.00	55.4 PK	88.2	-32.8	1.89 V	119	57.4	-2.0
10	#28460.00	43.6 AV	68.2	-24.6	1.89 V	119	45.6	-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 (HE40)	Channel	CH 3：5965 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	52.3 PK	88.2	-35.9	1.55 H	6	47.2	5.1
2	#5925.00	42.2 AV	68.2	-26.0	1.55 H	6	37.1	5.1
3	*5965.00	96.7 PK			1.55 H	6	91.4	5.3
4	*5965.00	87.7 AV			1.55 H	6	82.4	5.3
5	11930.00	45.8 PK	74.0	-28.2	2.58 H	182	31.9	13.9
6	11930.00	36.0 AV	54.0	-18.0	2.58 H	182	22.1	13.9
7	17895.00	52.5 PK	74.0	-21.5	1.67 H	250	31.7	20.8
8	17895.00	40.2 AV	54.0	-13.8	1.67 H	250	19.4	20.8
9	23860.00	55.5 PK	74.0	-18.5	1.66 H	276	58.6	-3.1
10	23860.00	43.0 AV	54.0	-11.0	1.66 H	276	46.1	-3.1
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	51.9 PK	88.2	-36.3	3.71 V	339	46.8	5.1
2	#5925.00	41.6 AV	68.2	-26.6	3.71 V	339	36.5	5.1
3	*5965.00	95.8 PK			3.71 V	339	90.5	5.3
4	*5965.00	86.1 AV			3.71 V	339	80.8	5.3
5	11930.00	45.0 PK	74.0	-29.0	2.92 V	304	31.1	13.9
6	11930.00	35.8 AV	54.0	-18.2	2.92 V	304	21.9	13.9
7	17895.00	51.8 PK	74.0	-22.2	2.06 V	182	31.0	20.8
8	17895.00	40.3 AV	54.0	-13.7	2.06 V	182	19.5	20.8
9	23860.00	55.4 PK	74.0	-18.6	1.86 V	102	58.5	-3.1
10	23860.00	43.9 AV	54.0	-10.1	1.86 V	102	47.0	-3.1

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 43：6165 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	*6165.00	97.3 PK			1.52 H	23	91.8	5.5
2	*6165.00	88.0 AV			1.52 H	23	82.5	5.5
3	12330.00	45.9 PK	74.0	-28.1	2.64 H	181	31.9	14.0
4	12330.00	35.7 AV	54.0	-18.3	2.64 H	181	21.7	14.0
5	18495.00	51.8 PK	74.0	-22.2	1.73 H	266	58.9	-7.1
6	18495.00	39.8 AV	54.0	-14.2	1.73 H	266	46.9	-7.1
7	#24660.00	54.9 PK	88.2	-33.3	1.70 H	271	57.2	-2.3
8	#24660.00	42.6 AV	68.2	-25.6	1.70 H	271	44.9	-2.3
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	*6165.00	96.1 PK			3.73 V	341	90.6	5.5
2	*6165.00	86.4 AV			3.73 V	341	80.9	5.5
3	12330.00	44.3 PK	74.0	-29.7	2.87 V	336	30.3	14.0
4	12330.00	35.3 AV	54.0	-18.7	2.87 V	336	21.3	14.0
5	18495.00	52.0 PK	74.0	-22.0	2.08 V	201	59.1	-7.1
6	18495.00	40.6 AV	54.0	-13.4	2.08 V	201	47.7	-7.1
7	#24660.00	56.0 PK	88.2	-32.2	1.87 V	120	58.3	-2.3
8	#24660.00	44.1 AV	68.2	-24.1	1.87 V	120	46.4	-2.3

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 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	96.1 PK			1.49 H	16	89.5	6.6
2	*6405.00	86.8 AV			1.49 H	16	80.2	6.6
3	#12810.00	45.9 PK	88.2	-42.3	2.57 H	191	31.3	14.6
4	#12810.00	35.7 AV	68.2	-32.5	2.57 H	191	21.1	14.6
5	19215.00	52.7 PK	74.0	-21.3	1.66 H	265	59.4	-6.7
6	19215.00	40.4 AV	54.0	-13.6	1.66 H	265	47.1	-6.7
7	#25620.00	55.2 PK	88.2	-33.0	1.69 H	276	56.8	-1.6
8	#25620.00	43.2 AV	68.2	-25.0	1.69 H	276	44.8	-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	*6405.00	93.7 PK			3.79 V	296	87.1	6.6
2	*6405.00	84.3 AV			3.79 V	296	77.7	6.6
3	#12810.00	44.5 PK	88.2	-43.7	2.91 V	331	29.9	14.6
4	#12810.00	35.5 AV	68.2	-32.7	2.91 V	331	20.9	14.6
5	19215.00	51.8 PK	74.0	-22.2	2.08 V	200	58.5	-6.7
6	19215.00	40.5 AV	54.0	-13.5	2.08 V	200	47.2	-6.7
7	#25620.00	55.4 PK	88.2	-32.8	1.93 V	118	57.0	-1.6
8	#25620.00	43.5 AV	68.2	-24.7	1.93 V	118	45.1	-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 (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	96.3 PK			1.47 H	25	89.3	7.0
2	*6445.00	87.2 AV			1.47 H	25	80.2	7.0
3	#12890.00	46.0 PK	88.2	-42.2	2.62 H	169	31.9	14.1
4	#12890.00	35.8 AV	68.2	-32.4	2.62 H	169	21.7	14.1
5	19335.00	52.0 PK	74.0	-22.0	1.76 H	257	58.9	-6.9
6	19335.00	40.1 AV	54.0	-13.9	1.76 H	257	47.0	-6.9
7	#25780.00	55.3 PK	88.2	-32.9	1.69 H	266	56.5	-1.2
8	#25780.00	43.3 AV	68.2	-24.9	1.69 H	266	44.5	-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	*6445.00	93.5 PK			3.77 V	325	86.5	7.0
2	*6445.00	84.4 AV			3.77 V	325	77.4	7.0
3	#12890.00	44.0 PK	88.2	-44.2	2.82 V	331	29.9	14.1
4	#12890.00	35.2 AV	68.2	-33.0	2.82 V	331	21.1	14.1
5	19335.00	51.8 PK	74.0	-22.2	2.08 V	193	58.7	-6.9
6	19335.00	40.6 AV	54.0	-13.4	2.08 V	193	47.5	-6.9
7	#25780.00	54.9 PK	88.2	-33.3	1.89 V	120	56.1	-1.2
8	#25780.00	43.5 AV	68.2	-24.7	1.89 V	120	44.7	-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 (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	96.4 PK			1.49 H	0	89.1	7.3
2	*6485.00	87.1 AV			1.49 H	0	79.8	7.3
3	#12970.00	46.0 PK	88.2	-42.2	2.66 H	178	31.5	14.5
4	#12970.00	36.1 AV	68.2	-32.1	2.66 H	178	21.6	14.5
5	19455.00	51.9 PK	74.0	-22.1	1.72 H	265	58.6	-6.7
6	19455.00	40.0 AV	54.0	-14.0	1.72 H	265	46.7	-6.7
7	#25940.00	54.9 PK	88.2	-33.3	1.70 H	282	56.5	-1.6
8	#25940.00	42.9 AV	68.2	-25.3	1.70 H	282	44.5	-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	*6485.00	93.7 PK			3.83 V	325	86.4	7.3
2	*6485.00	84.2 AV			3.83 V	325	76.9	7.3
3	#12970.00	44.7 PK	88.2	-43.5	2.92 V	324	30.2	14.5
4	#12970.00	35.5 AV	68.2	-32.7	2.92 V	324	21.0	14.5
5	19455.00	52.4 PK	74.0	-21.6	2.09 V	210	59.1	-6.7
6	19455.00	40.9 AV	54.0	-13.1	2.09 V	210	47.6	-6.7
7	#25940.00	55.6 PK	88.2	-32.6	1.88 V	120	57.2	-1.6
8	#25940.00	44.0 AV	68.2	-24.2	1.88 V	120	45.6	-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 (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	96.5 PK			1.49 H	28	88.9	7.6
2	*6525.00	87.2 AV			1.49 H	28	79.6	7.6
3	#13050.00	45.3 PK	88.2	-42.9	2.59 H	189	30.6	14.7
4	#13050.00	35.7 AV	68.2	-32.5	2.59 H	189	21.0	14.7
5	19575.00	52.0 PK	74.0	-22.0	1.74 H	267	58.3	-6.3
6	19575.00	40.1 AV	54.0	-13.9	1.74 H	267	46.4	-6.3
7	#26100.00	55.5 PK	88.2	-32.7	1.69 H	295	56.6	-1.1
8	#26100.00	43.4 AV	68.2	-24.8	1.69 H	295	44.5	-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	*6525.00	93.7 PK			3.85 V	305	86.1	7.6
2	*6525.00	84.4 AV			3.85 V	305	76.8	7.6
3	#13050.00	45.0 PK	88.2	-43.2	2.90 V	311	30.3	14.7
4	#13050.00	36.1 AV	68.2	-32.1	2.90 V	311	21.4	14.7
5	19575.00	51.9 PK	74.0	-22.1	2.12 V	208	58.2	-6.3
6	19575.00	40.4 AV	54.0	-13.6	2.12 V	208	46.7	-6.3
7	#26100.00	55.2 PK	88.2	-33.0	1.93 V	103	56.3	-1.1
8	#26100.00	43.7 AV	68.2	-24.5	1.93 V	103	44.8	-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 (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	96.1 PK			1.52 H	1	88.3	7.8
2	*6565.00	86.7 AV			1.52 H	1	78.9	7.8
3	#13130.00	45.5 PK	88.2	-42.7	2.61 H	185	30.4	15.1
4	#13130.00	35.9 AV	68.2	-32.3	2.61 H	185	20.8	15.1
5	19695.00	52.4 PK	74.0	-21.6	1.67 H	250	58.6	-6.2
6	19695.00	40.2 AV	54.0	-13.8	1.67 H	250	46.4	-6.2
7	#26260.00	55.6 PK	88.2	-32.6	1.71 H	288	56.8	-1.2
8	#26260.00	43.4 AV	68.2	-24.8	1.71 H	288	44.6	-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	*6565.00	93.4 PK			3.81 V	301	85.6	7.8
2	*6565.00	84.2 AV			3.81 V	301	76.4	7.8
3	#13130.00	44.2 PK	88.2	-44.0	2.92 V	329	29.1	15.1
4	#13130.00	35.2 AV	68.2	-33.0	2.92 V	329	20.1	15.1
5	19695.00	52.1 PK	74.0	-21.9	2.07 V	201	58.3	-6.2
6	19695.00	40.9 AV	54.0	-13.1	2.07 V	201	47.1	-6.2
7	#26260.00	55.3 PK	88.2	-32.9	1.93 V	127	56.5	-1.2
8	#26260.00	43.7 AV	68.2	-24.5	1.93 V	127	44.9	-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 (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	96.6 PK			1.53 H	5	88.8	7.8
2	*6725.00	87.0 AV			1.53 H	5	79.2	7.8
3	#13450.00	45.9 PK	88.2	-42.3	2.58 H	192	30.3	15.6
4	#13450.00	36.0 AV	68.2	-32.2	2.58 H	192	20.4	15.6
5	20175.00	52.2 PK	74.0	-21.8	1.66 H	268	57.8	-5.6
6	20175.00	39.9 AV	54.0	-14.1	1.66 H	268	45.5	-5.6
7	#26900.00	55.4 PK	88.2	-32.8	1.69 H	270	56.7	-1.3
8	#26900.00	43.3 AV	68.2	-24.9	1.69 H	270	44.6	-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	*6725.00	94.1 PK			3.79 V	304	86.3	7.8
2	*6725.00	84.8 AV			3.79 V	304	77.0	7.8
3	#13450.00	44.4 PK	88.2	-43.8	2.94 V	318	28.8	15.6
4	#13450.00	35.6 AV	68.2	-32.6	2.94 V	318	20.0	15.6
5	20175.00	52.0 PK	74.0	-22.0	2.12 V	204	57.6	-5.6
6	20175.00	40.4 AV	54.0	-13.6	2.12 V	204	46.0	-5.6
7	#26900.00	55.2 PK	88.2	-33.0	1.95 V	132	56.5	-1.3
8	#26900.00	43.6 AV	68.2	-24.6	1.95 V	132	44.9	-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	96.3 PK			1.53 H	3	88.5	7.8
2	*6845.00	87.1 AV			1.53 H	3	79.3	7.8
3	#13690.00	46.0 PK	88.2	-42.2	2.65 H	188	29.4	16.6
4	#13690.00	36.1 AV	68.2	-32.1	2.65 H	188	19.5	16.6
5	20535.00	51.8 PK	74.0	-22.2	1.74 H	268	56.9	-5.1
6	20535.00	39.6 AV	54.0	-14.4	1.74 H	268	44.7	-5.1
7	#27380.00	55.3 PK	88.2	-32.9	1.63 H	287	57.1	-1.8
8	#27380.00	42.8 AV	68.2	-25.4	1.63 H	287	44.6	-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	*6845.00	94.2 PK			3.76 V	327	86.4	7.8
2	*6845.00	84.8 AV			3.76 V	327	77.0	7.8
3	#13690.00	44.9 PK	88.2	-43.3	2.92 V	328	28.3	16.6
4	#13690.00	35.9 AV	68.2	-32.3	2.92 V	328	19.3	16.6
5	20535.00	51.4 PK	74.0	-22.6	2.07 V	209	56.5	-5.1
6	20535.00	40.2 AV	54.0	-13.8	2.07 V	209	45.3	-5.1
7	#27380.00	55.3 PK	88.2	-32.9	1.94 V	109	57.1	-1.8
8	#27380.00	43.6 AV	68.2	-24.6	1.94 V	109	45.4	-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 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	96.2 PK			1.52 H	10	88.2	8.0
2	*6885.00	86.8 AV			1.52 H	10	78.8	8.0
3	#13770.00	45.9 PK	88.2	-42.3	2.59 H	170	29.3	16.6
4	#13770.00	36.2 AV	68.2	-32.0	2.59 H	170	19.6	16.6
5	20655.00	52.0 PK	74.0	-22.0	1.65 H	249	57.0	-5.0
6	20655.00	39.7 AV	54.0	-14.3	1.65 H	249	44.7	-5.0
7	#27540.00	55.8 PK	88.2	-32.4	1.65 H	290	57.3	-1.5
8	#27540.00	43.4 AV	68.2	-24.8	1.65 H	290	44.9	-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	*6885.00	93.8 PK			3.79 V	312	85.8	8.0
2	*6885.00	84.6 AV			3.79 V	312	76.6	8.0
3	#13770.00	44.2 PK	88.2	-44.0	2.86 V	318	27.6	16.6
4	#13770.00	35.4 AV	68.2	-32.8	2.86 V	318	18.8	16.6
5	20655.00	52.0 PK	74.0	-22.0	2.04 V	194	57.0	-5.0
6	20655.00	40.7 AV	54.0	-13.3	2.04 V	194	45.7	-5.0
7	#27540.00	56.2 PK	88.2	-32.0	1.93 V	105	57.7	-1.5
8	#27540.00	44.3 AV	68.2	-23.9	1.93 V	105	45.8	-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 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	99.3 PK			1.91 H	23	90.6	8.7
2	*7005.00	88.8 AV			1.91 H	23	80.1	8.7
3	#14010.00	46.7 PK	88.2	-41.5	2.60 H	163	30.0	16.7
4	#14010.00	36.6 AV	68.2	-31.6	2.60 H	163	19.9	16.7
5	21015.00	51.7 PK	74.0	-22.3	1.70 H	266	56.3	-4.6
6	21015.00	39.6 AV	54.0	-14.4	1.70 H	266	44.2	-4.6
7	#28020.00	55.2 PK	88.2	-33.0	1.68 H	277	56.9	-1.7
8	#28020.00	42.8 AV	68.2	-25.4	1.68 H	277	44.5	-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	*7005.00	94.1 PK			3.78 V	323	85.4	8.7
2	*7005.00	85.1 AV			3.78 V	323	76.4	8.7
3	#14010.00	44.3 PK	88.2	-43.9	2.94 V	312	27.6	16.7
4	#14010.00	35.1 AV	68.2	-33.1	2.94 V	312	18.4	16.7
5	21015.00	51.7 PK	74.0	-22.3	2.05 V	194	56.3	-4.6
6	21015.00	40.5 AV	54.0	-13.5	2.05 V	194	45.1	-4.6
7	#28020.00	55.3 PK	88.2	-32.9	1.94 V	121	57.0	-1.7
8	#28020.00	43.5 AV	68.2	-24.7	1.94 V	121	45.2	-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 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	99.4 PK			1.96 H	13	89.6	9.8
2	*7085.00	88.9 AV			1.96 H	13	79.1	9.8
3	#7125.00	56.5 PK	88.2	-31.7	1.96 H	13	46.5	10.0
4	#7125.00	46.4 AV	68.2	-21.8	1.96 H	13	36.4	10.0
5	#14170.00	46.7 PK	88.2	-41.5	2.60 H	174	29.2	17.5
6	#14170.00	36.6 AV	68.2	-31.6	2.60 H	174	19.1	17.5
7	21255.00	52.2 PK	74.0	-21.8	1.69 H	249	56.6	-4.4
8	21255.00	40.1 AV	54.0	-13.9	1.69 H	249	44.5	-4.4
9	#28340.00	55.0 PK	88.2	-33.2	1.70 H	278	56.8	-1.8
10	#28340.00	42.7 AV	68.2	-25.5	1.70 H	278	44.5	-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	*7085.00	94.8 PK			3.80 V	322	85.0	9.8
2	*7085.00	86.0 AV			3.80 V	322	76.2	9.8
3	#7125.00	55.7 PK	88.2	-32.5	3.80 V	322	45.7	10.0
4	#7125.00	46.0 AV	68.2	-22.2	3.80 V	322	36.0	10.0
5	#14170.00	45.0 PK	88.2	-43.2	2.92 V	316	27.5	17.5
6	#14170.00	36.0 AV	68.2	-32.2	2.92 V	316	18.5	17.5
7	21255.00	52.2 PK	74.0	-21.8	2.13 V	205	56.6	-4.4
8	21255.00	41.0 AV	54.0	-13.0	2.13 V	205	45.4	-4.4
9	#28340.00	55.8 PK	88.2	-32.4	1.87 V	125	57.6	-1.8
10	#28340.00	44.1 AV	68.2	-24.1	1.87 V	125	45.9	-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 (HE80)	Channel	CH 7：5985 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	53.6 PK	88.2	-34.6	1.35 H	5	48.5	5.1
2	#5925.00	44.4 AV	68.2	-23.8	1.35 H	5	39.3	5.1
3	*5985.00	97.8 PK			1.35 H	5	92.5	5.3
4	*5985.00	88.4 AV			1.35 H	5	83.1	5.3
5	11970.00	46.0 PK	74.0	-28.0	2.59 H	185	32.0	14.0
6	11970.00	35.8 AV	54.0	-18.2	2.59 H	185	21.8	14.0
7	17955.00	52.1 PK	74.0	-21.9	1.74 H	266	30.6	21.5
8	17955.00	40.0 AV	54.0	-14.0	1.74 H	266	18.5	21.5
9	23940.00	55.5 PK	74.0	-18.5	1.63 H	276	58.5	-3.0
10	23940.00	43.5 AV	54.0	-10.5	1.63 H	276	46.5	-3.0
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	#5925.00	52.2 PK	88.2	-36.0	3.67 V	339	47.1	5.1
2	#5925.00	42.8 AV	68.2	-25.4	3.67 V	339	37.7	5.1
3	*5985.00	95.4 PK			3.67 V	339	90.1	5.3
4	*5985.00	86.0 AV			3.67 V	339	80.7	5.3
5	11970.00	44.9 PK	74.0	-29.1	2.87 V	315	30.9	14.0
6	11970.00	35.7 AV	54.0	-18.3	2.87 V	315	21.7	14.0
7	17955.00	52.1 PK	74.0	-21.9	2.13 V	181	30.6	21.5
8	17955.00	40.9 AV	54.0	-13.1	2.13 V	181	19.4	21.5
9	23940.00	56.0 PK	74.0	-18.0	1.95 V	104	59.0	-3.0
10	23940.00	44.2 AV	54.0	-9.8	1.95 V	104	47.2	-3.0

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 (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	*6145.00	97.8 PK			1.29 H	3	92.3	5.5
2	*6145.00	88.6 AV			1.29 H	3	83.1	5.5
3	12290.00	46.3 PK	74.0	-27.7	2.64 H	189	31.8	14.5
4	12290.00	36.2 AV	54.0	-17.8	2.64 H	189	21.7	14.5
5	18435.00	51.3 PK	74.0	-22.7	1.70 H	258	58.3	-7.0
6	18435.00	39.5 AV	54.0	-14.5	1.70 H	258	46.5	-7.0
7	#24580.00	54.6 PK	88.2	-33.6	1.66 H	291	57.1	-2.5
8	#24580.00	42.5 AV	68.2	-25.7	1.66 H	291	45.0	-2.5
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	*6145.00	95.3 PK			3.68 V	334	89.8	5.5
2	*6145.00	86.0 AV			3.68 V	334	80.5	5.5
3	12290.00	44.1 PK	74.0	-29.9	2.90 V	317	29.6	14.5
4	12290.00	35.3 AV	54.0	-18.7	2.90 V	317	20.8	14.5
5	18435.00	52.0 PK	74.0	-22.0	2.05 V	207	59.0	-7.0
6	18435.00	40.7 AV	54.0	-13.3	2.05 V	207	47.7	-7.0
7	#24580.00	55.0 PK	88.2	-33.2	1.88 V	133	57.5	-2.5
8	#24580.00	43.5 AV	68.2	-24.7	1.88 V	133	46.0	-2.5

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 (HE80)	Channel	CH 87：6385 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	*6385.00	96.7 PK			1.27 H	16	90.3	6.4
2	*6385.00	87.4 AV			1.27 H	16	81.0	6.4
3	#12770.00	45.5 PK	88.2	-42.7	2.66 H	175	31.0	14.5
4	#12770.00	35.7 AV	68.2	-32.5	2.66 H	175	21.2	14.5
5	19155.00	52.1 PK	74.0	-21.9	1.67 H	257	58.8	-6.7
6	19155.00	40.2 AV	54.0	-13.8	1.67 H	257	46.9	-6.7
7	#25540.00	54.7 PK	88.2	-33.5	1.69 H	286	56.4	-1.7
8	#25540.00	42.8 AV	68.2	-25.4	1.69 H	286	44.5	-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	*6385.00	96.6 PK			3.47 V	231	90.2	6.4
2	*6385.00	86.2 AV			3.47 V	231	79.8	6.4
3	#12770.00	44.5 PK	88.2	-43.7	2.85 V	305	30.0	14.5
4	#12770.00	35.3 AV	68.2	-32.9	2.85 V	305	20.8	14.5
5	19155.00	52.4 PK	74.0	-21.6	2.04 V	196	59.1	-6.7
6	19155.00	40.8 AV	54.0	-13.2	2.04 V	196	47.5	-6.7
7	#25540.00	55.2 PK	88.2	-33.0	1.96 V	111	56.9	-1.7
8	#25540.00	43.8 AV	68.2	-24.4	1.96 V	111	45.5	-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 (HE80)	Channel	CH 103：6465 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	*6465.00	96.5 PK			1.27 H	16	89.4	7.1
2	*6465.00	87.3 AV			1.27 H	16	80.2	7.1
3	#12930.00	45.5 PK	88.2	-42.7	2.55 H	164	31.2	14.3
4	#12930.00	35.8 AV	68.2	-32.4	2.55 H	164	21.5	14.3
5	19395.00	52.3 PK	74.0	-21.7	1.65 H	265	59.1	-6.8
6	19395.00	40.2 AV	54.0	-13.8	1.65 H	265	47.0	-6.8
7	#25860.00	55.4 PK	88.2	-32.8	1.66 H	272	56.9	-1.5
8	#25860.00	43.1 AV	68.2	-25.1	1.66 H	272	44.6	-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	*6465.00	96.0 PK			3.52 V	222	88.9	7.1
2	*6465.00	85.8 AV			3.52 V	222	78.7	7.1
3	#12930.00	44.3 PK	88.2	-43.9	2.89 V	334	30.0	14.3
4	#12930.00	35.6 AV	68.2	-32.6	2.89 V	334	21.3	14.3
5	19395.00	51.5 PK	74.0	-22.5	2.11 V	208	58.3	-6.8
6	19395.00	40.5 AV	54.0	-13.5	2.11 V	208	47.3	-6.8
7	#25860.00	55.6 PK	88.2	-32.6	1.94 V	121	57.1	-1.5
8	#25860.00	44.2 AV	68.2	-24.0	1.94 V	121	45.7	-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 (HE80)	Channel	CH 119：6545 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	*6545.00	95.6 PK			1.24 H	29	88.0	7.6
2	*6545.00	86.1 AV			1.24 H	29	78.5	7.6
3	#13090.00	46.3 PK	88.2	-41.9	2.57 H	170	31.4	14.9
4	#13090.00	36.2 AV	68.2	-32.0	2.57 H	170	21.3	14.9
5	19635.00	51.4 PK	74.0	-22.6	1.64 H	261	57.6	-6.2
6	19635.00	39.6 AV	54.0	-14.4	1.64 H	261	45.8	-6.2
7	#26180.00	54.9 PK	88.2	-33.3	1.63 H	269	55.9	-1.0
8	#26180.00	42.5 AV	68.2	-25.7	1.63 H	269	43.5	-1.0
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	*6545.00	94.4 PK			3.59 V	233	86.8	7.6
2	*6545.00	84.2 AV			3.59 V	233	76.6	7.6
3	#13090.00	44.3 PK	88.2	-43.9	2.87 V	328	29.4	14.9
4	#13090.00	35.2 AV	68.2	-33.0	2.87 V	328	20.3	14.9
5	19635.00	51.6 PK	74.0	-22.4	2.10 V	197	57.8	-6.2
6	19635.00	40.5 AV	54.0	-13.5	2.10 V	197	46.7	-6.2
7	#26180.00	55.7 PK	88.2	-32.5	1.92 V	119	56.7	-1.0
8	#26180.00	44.1 AV	68.2	-24.1	1.92 V	119	45.1	-1.0

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 (HE80)	Channel	CH 135：6625 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	*6625.00	95.4 PK			1.28 H	13	87.5	7.9
2	*6625.00	86.2 AV			1.28 H	13	78.3	7.9
3	13250.00	46.4 PK	74.0	-27.6	2.55 H	168	30.6	15.8
4	13250.00	36.6 AV	54.0	-17.4	2.55 H	168	20.8	15.8
5	19875.00	52.0 PK	74.0	-22.0	1.74 H	266	58.2	-6.2
6	19875.00	39.8 AV	54.0	-14.2	1.74 H	266	46.0	-6.2
7	#26500.00	55.2 PK	88.2	-33.0	1.65 H	292	55.9	-0.7
8	#26500.00	42.9 AV	68.2	-25.3	1.65 H	292	43.6	-0.7
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	*6625.00	94.6 PK			3.57 V	231	86.7	7.9
2	*6625.00	84.2 AV			3.57 V	231	76.3	7.9
3	13250.00	44.7 PK	74.0	-29.3	2.92 V	334	28.9	15.8
4	13250.00	35.9 AV	54.0	-18.1	2.92 V	334	20.1	15.8
5	19875.00	51.9 PK	74.0	-22.1	2.09 V	209	58.1	-6.2
6	19875.00	40.8 AV	54.0	-13.2	2.09 V	209	47.0	-6.2
7	#26500.00	56.1 PK	88.2	-32.1	1.90 V	122	56.8	-0.7
8	#26500.00	44.3 AV	68.2	-23.9	1.90 V	122	45.0	-0.7

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 (HE80)	Channel	CH 151：6705 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	*6705.00	96.0 PK			1.25 H	31	88.3	7.7
2	*6705.00	86.6 AV			1.25 H	31	78.9	7.7
3	#13410.00	45.7 PK	88.2	-42.5	2.56 H	181	30.3	15.4
4	#13410.00	35.7 AV	68.2	-32.5	2.56 H	181	20.3	15.4
5	20115.00	52.5 PK	74.0	-21.5	1.65 H	269	58.2	-5.7
6	20115.00	40.3 AV	54.0	-13.7	1.65 H	269	46.0	-5.7
7	#26820.00	55.9 PK	88.2	-32.3	1.68 H	267	56.9	-1.0
8	#26820.00	43.5 AV	68.2	-24.7	1.68 H	267	44.5	-1.0
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	*6705.00	94.4 PK			3.54 V	220	86.7	7.7
2	*6705.00	83.9 AV			3.54 V	220	76.2	7.7
3	#13410.00	44.3 PK	88.2	-43.9	2.92 V	305	28.9	15.4
4	#13410.00	35.6 AV	68.2	-32.6	2.92 V	305	20.2	15.4
5	20115.00	52.1 PK	74.0	-21.9	2.10 V	212	57.8	-5.7
6	20115.00	40.6 AV	54.0	-13.4	2.10 V	212	46.3	-5.7
7	#26820.00	56.2 PK	88.2	-32.0	1.88 V	134	57.2	-1.0
8	#26820.00	44.3 AV	68.2	-23.9	1.88 V	134	45.3	-1.0

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 (HE80)	Channel	CH 167：6785 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	*6785.00	96.0 PK			1.24 H	34	88.2	7.8
2	*6785.00	86.4 AV			1.24 H	34	78.6	7.8
3	#13570.00	46.1 PK	88.2	-42.1	2.66 H	183	30.0	16.1
4	#13570.00	36.1 AV	68.2	-32.1	2.66 H	183	20.0	16.1
5	20355.00	52.3 PK	74.0	-21.7	1.69 H	260	58.2	-5.9
6	20355.00	40.4 AV	54.0	-13.6	1.69 H	260	46.3	-5.9
7	#27140.00	55.6 PK	88.2	-32.6	1.66 H	289	56.9	-1.3
8	#27140.00	43.3 AV	68.2	-24.9	1.66 H	289	44.6	-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	*6785.00	95.8 PK			3.53 V	224	88.0	7.8
2	*6785.00	85.7 AV			3.53 V	224	77.9	7.8
3	#13570.00	44.0 PK	88.2	-44.2	2.94 V	305	27.9	16.1
4	#13570.00	35.3 AV	68.2	-32.9	2.94 V	305	19.2	16.1
5	20355.00	52.4 PK	74.0	-21.6	2.08 V	202	58.3	-5.9
6	20355.00	41.0 AV	54.0	-13.0	2.08 V	202	46.9	-5.9
7	#27140.00	56.0 PK	88.2	-32.2	1.90 V	115	57.3	-1.3
8	#27140.00	44.1 AV	68.2	-24.1	1.90 V	115	45.4	-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 (HE80)	Channel	CH 183：6865 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	*6865.00	95.4 PK			1.23 H	32	87.5	7.9
2	*6865.00	86.1 AV			1.23 H	32	78.2	7.9
3	#13730.00	46.3 PK	88.2	-41.9	2.62 H	165	29.7	16.6
4	#13730.00	36.6 AV	68.2	-31.6	2.62 H	165	20.0	16.6
5	20595.00	51.5 PK	74.0	-22.5	1.66 H	262	56.3	-4.8
6	20595.00	39.7 AV	54.0	-14.3	1.66 H	262	44.5	-4.8
7	#27460.00	55.2 PK	88.2	-33.0	1.69 H	272	56.8	-1.6
8	#27460.00	42.8 AV	68.2	-25.4	1.69 H	272	44.4	-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	*6865.00	95.4 PK			3.53 V	234	87.5	7.9
2	*6865.00	85.3 AV			3.53 V	234	77.4	7.9
3	#13730.00	44.4 PK	88.2	-43.8	2.85 V	327	27.8	16.6
4	#13730.00	35.3 AV	68.2	-32.9	2.85 V	327	18.7	16.6
5	20595.00	51.6 PK	74.0	-22.4	2.07 V	204	56.4	-4.8
6	20595.00	40.2 AV	54.0	-13.8	2.07 V	204	45.0	-4.8
7	#27460.00	56.2 PK	88.2	-32.0	1.91 V	130	57.8	-1.6
8	#27460.00	44.3 AV	68.2	-23.9	1.91 V	130	45.9	-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 (HE80)	Channel	CH 199：6945 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	*6945.00	98.6 PK			2.06 H	19	89.7	8.9
2	*6945.00	89.3 AV			2.06 H	19	80.4	8.9
3	#13890.00	46.2 PK	88.2	-42.0	2.66 H	152	29.8	16.4
4	#13890.00	36.4 AV	68.2	-31.8	2.66 H	152	20.0	16.4
5	20835.00	51.2 PK	74.0	-22.8	1.67 H	271	56.2	-5.0
6	20835.00	39.6 AV	54.0	-14.4	1.67 H	271	44.6	-5.0
7	#27780.00	55.5 PK	88.2	-32.7	1.74 H	285	57.7	-2.2
8	#27780.00	43.2 AV	68.2	-25.0	1.74 H	285	45.4	-2.2
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	*6945.00	96.2 PK			3.50 V	232	87.3	8.9
2	*6945.00	86.8 AV			3.50 V	232	77.9	8.9
3	#13890.00	45.3 PK	88.2	-42.9	2.89 V	309	28.9	16.4
4	#13890.00	36.0 AV	68.2	-32.2	2.89 V	309	19.6	16.4
5	20835.00	52.1 PK	74.0	-21.9	2.06 V	210	57.1	-5.0
6	20835.00	41.1 AV	54.0	-12.9	2.06 V	210	46.1	-5.0
7	#27780.00	55.4 PK	88.2	-32.8	1.92 V	131	57.6	-2.2
8	#27780.00	43.4 AV	68.2	-24.8	1.92 V	131	45.6	-2.2

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 215：7025 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	*7025.00	98.3 PK			2.02 H	12	89.3	9.0
2	*7025.00	89.1 AV			2.02 H	12	80.1	9.0
3	#7125.00	56.7 PK	88.2	-31.5	2.02 H	12	46.7	10.0
4	#7125.00	46.6 AV	68.2	-21.6	2.02 H	12	36.6	10.0
5	#14050.00	46.2 PK	88.2	-42.0	2.63 H	187	29.4	16.8
6	#14050.00	36.5 AV	68.2	-31.7	2.63 H	187	19.7	16.8
7	21075.00	52.3 PK	74.0	-21.7	1.69 H	268	56.8	-4.5
8	21075.00	40.1 AV	54.0	-13.9	1.69 H	268	44.6	-4.5
9	#28100.00	55.2 PK	88.2	-33.0	1.62 H	274	57.1	-1.9
10	#28100.00	42.9 AV	68.2	-25.3	1.62 H	274	44.8	-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	*7025.00	96.0 PK			3.54 V	227	87.0	9.0
2	*7025.00	86.3 AV			3.54 V	227	77.3	9.0
3	#7125.00	57.0 PK	88.2	-31.2	3.54 V	227	47.0	10.0
4	#7125.00	46.4 AV	68.2	-21.8	3.54 V	227	36.4	10.0
5	#14050.00	44.3 PK	88.2	-43.9	2.93 V	326	27.5	16.8
6	#14050.00	35.3 AV	68.2	-32.9	2.93 V	326	18.5	16.8
7	21075.00	52.1 PK	74.0	-21.9	2.04 V	212	56.6	-4.5
8	21075.00	40.9 AV	54.0	-13.1	2.04 V	212	45.4	-4.5
9	#28100.00	55.9 PK	88.2	-32.3	1.87 V	122	57.8	-1.9
10	#28100.00	43.9 AV	68.2	-24.3	1.87 V	122	45.8	-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.

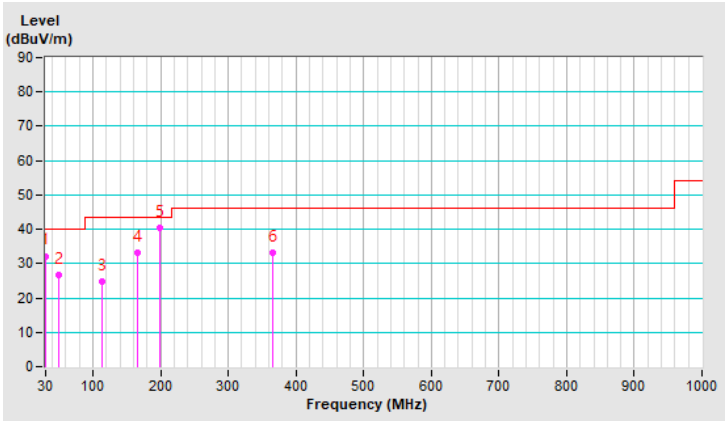
Below 1GHz Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 7：5985 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	30.48	32.2 QP	40.0	-7.8	2.90 H	124	41.1	-8.9
2	49.25	26.8 QP	40.0	-13.2	1.10 H	334	34.3	-7.5
3	113.37	24.8 QP	43.5	-18.7	1.10 H	73	34.5	-9.7
4	165.87	33.1 QP	43.5	-10.4	1.40 H	185	40.1	-7.0
5	199.39	40.4 QP	43.5	-3.1	1.20 H	194	50.5	-10.1
6	364.86	33.2 QP	46.0	-12.8	1.10 H	172	37.1	-3.9

Remarks:

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

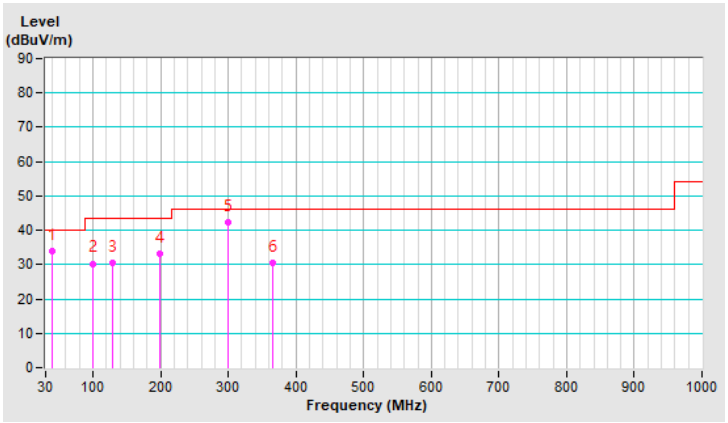


RF Mode	TX 802.11ax (HE80)	Channel	CH 7：5985 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	39.89	33.8 QP	40.0	-6.2	1.10 V	150	42.0	-8.2
2	99.84	30.3 QP	43.5	-13.2	1.20 V	160	42.0	-11.7
3	129.45	30.4 QP	43.5	-13.1	1.10 V	192	38.6	-8.2
4	199.27	33.2 QP	43.5	-10.3	1.90 V	226	43.3	-10.1
5	299.22	42.3 QP	46.0	-3.7	1.01 V	274	48.2	-5.9
6	365.26	30.4 QP	46.0	-15.6	1.90 V	139	34.3	-3.9

Remarks:

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



4.2 Transmit Power Measurement

4.2.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	EIRP 24 dBm

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

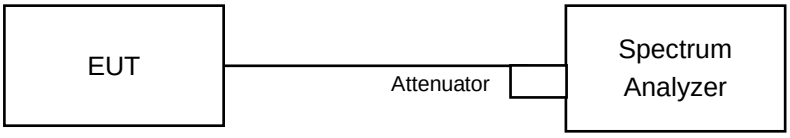
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

4.2.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & channel straddling 6875MHz:



For other channels:

4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & 6875MHz:

Method SA-2

a. Set span to encompass the emission bandwidth (EBW) of the signal.
b. Set RBW =1MHz.
c. Set the VBW ≥ 3 x RBW.
d. Number of points in sweep ≥ 2 Span / RBW.
e. Sweep time = auto.
f. Detector = RMS.
g. Trace average at least 100 traces in power averaging mode
h. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
i. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.2.5 EUT Operating Condition

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

4.2.6 Test Result

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
1	5955	0.54	0.90	2.363	3.73	4.76	7.06	8.49	24	Pass
45	6175	0.60	0.88	2.373	3.75	4.76	7.096	8.51	24	Pass
93	6415	1.10	1.22	2.613	4.17	4.76	7.816	8.93	24	Pass
97	6435	1.48	1.71	2.889	4.61	4.29	7.762	8.90	24	Pass
105	6475	1.28	1.62	2.795	4.46	4.29	7.499	8.75	24	Pass
113	6515	1.96	1.84	3.098	4.91	4.29	8.318	9.20	24	Pass
117	6535	1.48	1.26	2.743	4.38	4.61	7.925	8.99	24	Pass
153	6715	1.58	1.21	2.76	4.41	4.61	7.98	9.02	24	Pass
181	6855	1.66	1.31	2.818	4.50	4.61	8.147	9.11	24	Pass
*185 (U-NII-7 Band)	6875	-3.45	-3.33	1.0204	0.09	4.61	2.951	4.70	24	Pass
*185 (U-NII-8 Band)	6875	-3.53	-3.43	0.9994	0.00	4.09	2.564	4.09	24	Pass
213	7015	1.90	1.69	3.025	4.81	4.09	7.762	8.90	24	Pass
233	7115	1.37	2.18	3.023	4.80	4.09	7.745	8.89	24	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
3	5965	3.88	3.98	4.944	6.94	4.76	14.79	11.70	24	Pass
43	6165	3.78	4.11	4.964	6.96	4.76	14.859	11.72	24	Pass
91	6405	3.45	3.64	4.525	6.56	4.76	13.552	11.32	24	Pass
99	6445	3.89	4.71	5.407	7.33	4.29	14.521	11.62	24	Pass
107	6485	3.79	4.69	5.338	7.27	4.29	14.322	11.56	24	Pass
*115 (U-NII-6 Band)	6525	-1.84	-2.00	1.5235	1.83	4.29	4.093	6.12	24	Pass
*115 (U-NII-7 Band)	6525	-1.88	-1.99	1.5182	1.81	4.61	4.385	6.42	24	Pass
123	6565	4.19	4.28	5.303	7.25	4.61	15.346	11.86	24	Pass
155	6725	4.08	4.48	5.364	7.29	4.61	15.488	11.90	24	Pass
179	6845	4.22	4.39	5.39	7.32	4.61	15.596	11.93	24	Pass
*187 (U-NII-7 Band)	6885	-5.82	-5.52	0.6427	-1.92	4.61	1.858	2.69	24	Pass
*187 (U-NII-8 Band)	6885	0.83	1.21	3.001	4.77	4.09	7.691	8.86	24	Pass
211	7005	4.56	4.21	5.494	7.40	4.09	14.093	11.49	24	Pass
227	7085	4.58	4.71	5.829	7.66	4.09	14.96	11.75	24	Pass

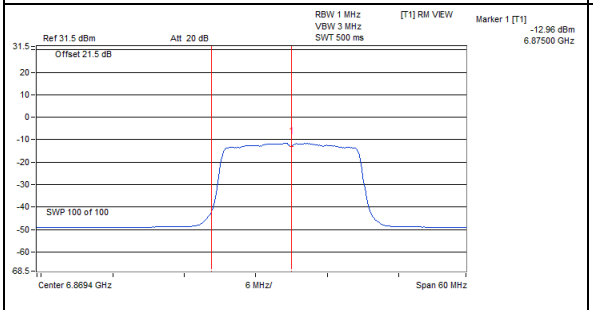
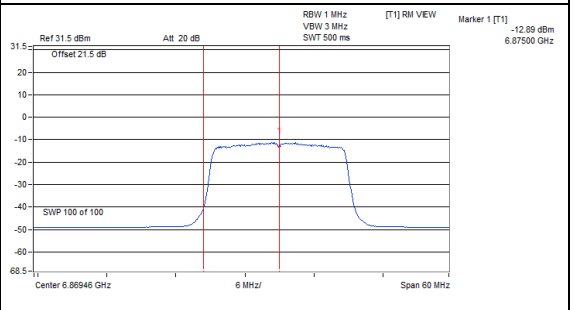
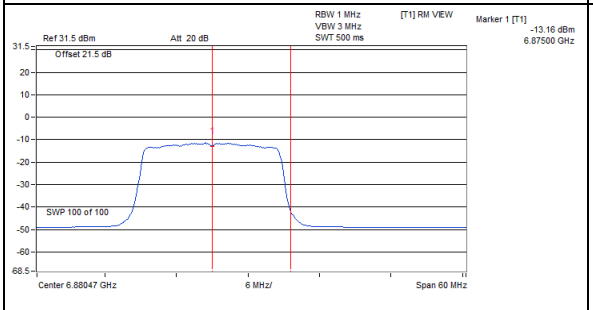
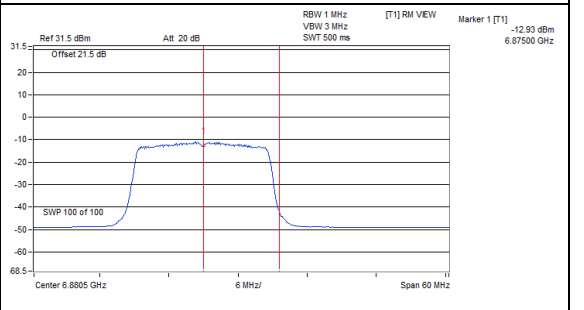
Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
7	5985	6.98	7.37	10.446	10.19	4.76	31.26	14.95	24	Pass
39	6145	6.78	7.43	10.298	10.13	4.76	30.832	14.89	24	Pass
87	6385	6.08	7.33	9.463	9.76	4.76	28.314	14.52	24	Pass
103	6465	7.11	7.67	10.988	10.41	4.29	29.512	14.70	24	Pass
*119 (U-NII-6 Band)	6545	-4.12	-4.08	1.071	0.30	4.29	2.877	4.59	24	Pass
*119 (U-NII-7 Band)	6545	2.28	2.20	4.611	6.64	4.61	13.335	11.25	24	Pass
135	6625	7.12	7.45	10.711	10.30	4.61	30.974	14.91	24	Pass
151	6705	7.11	7.36	10.585	10.25	4.61	30.62	14.86	24	Pass
167	6785	7.21	7.39	10.743	10.31	4.61	31.046	14.92	24	Pass
*183 (U-NII-7 Band)	6865	2.20	2.12	4.527	6.56	4.61	13.092	11.17	24	Pass
*183 (U-NII-8 Band)	6865	-1.17	-1.18	2.1003	3.22	4.61	6.067	7.83	24	Pass
199	6945	7.77	7.47	11.569	10.63	4.09	29.648	14.72	24	Pass
215	7025	7.67	7.88	11.986	10.79	4.09	30.761	14.88	24	Pass

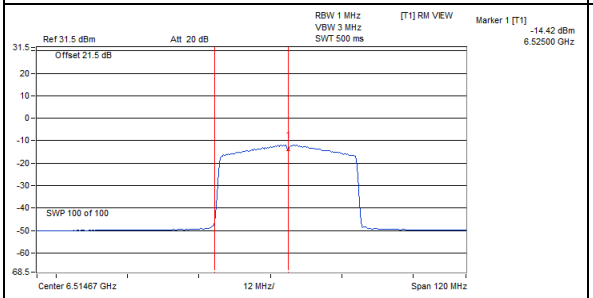
Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

For channel straddling 6525MHz & 6875MHz of Power

Spectrum Plot Value of Power	
802.11ax (HE20)_Chain 0 / CH185 (U-NII-7 Band)	**802.11ax (HE20)_Chain 1 / CH185 (U-NII-7 Band)**
 TX Channel Bandwidth 11.2 MHz Power -3.45 dBm	 TX Channel Bandwidth 11.08 MHz Power -3.33 dBm
802.11ax (HE20)_Chain 0 / CH185 (U-NII-8 Band)	**802.11ax (HE20)_Chain 1 / CH185 (U-NII-8 Band)**
 TX Channel Bandwidth 10.95 MHz Power -3.53 dBm	 TX Channel Bandwidth 11 MHz Power -3.43 dBm

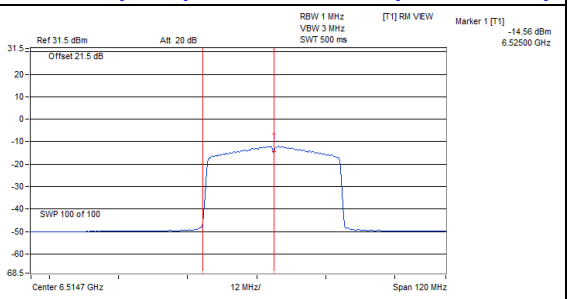
Spectrum Plot Value of Power

802.11ax (HE40)_Chain 0 / CH115 (U-NII-6 Band)



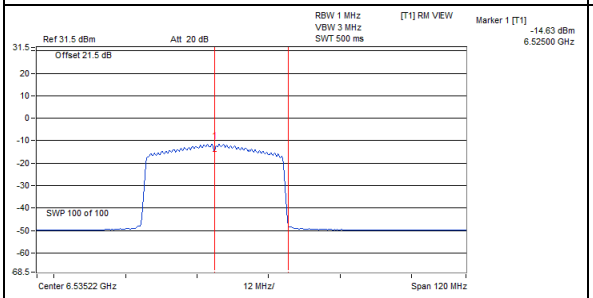
TX Channel Bandwidth 20.66 MHz Power -1.84 dBm

802.11ax (HE40)_Chain 1 / CH115 (U-NII-6 Band)



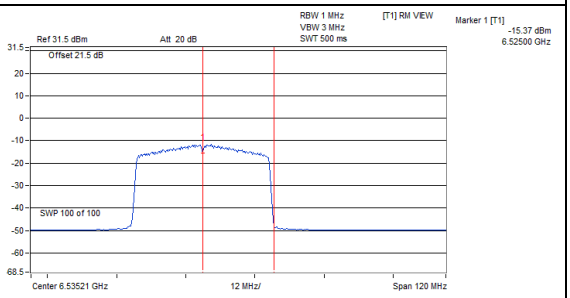
TX Channel Bandwidth 20.6 MHz Power -2 dBm

802.11ax (HE40)_Chain 0 / CH115 (U-NII-7 Band)



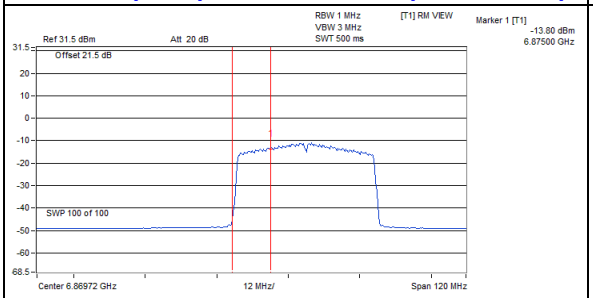
TX Channel Bandwidth 20.44 MHz Power -1.88 dBm

802.11ax (HE40)_Chain 1 / CH115 (U-NII-7 Band)



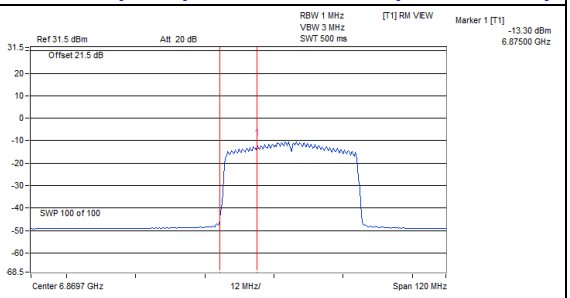
TX Channel Bandwidth 20.43 MHz Power -1.99 dBm

802.11ax (HE40)_Chain 0 / CH187 (U-NII-7 Band)



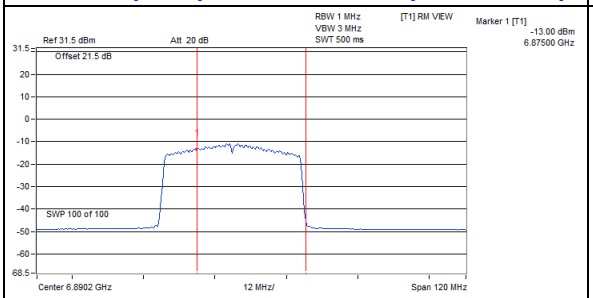
TX Channel Bandwidth 10.55 MHz Power -5.82 dBm

802.11ax (HE40)_Chain 1 / CH187 (U-NII-7 Band)



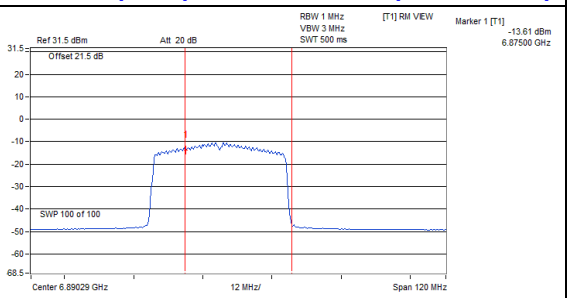
TX Channel Bandwidth 10.6 MHz Power -5.52 dBm

802.11ax (HE40)_Chain 0 / CH187 (U-NII-8 Band)

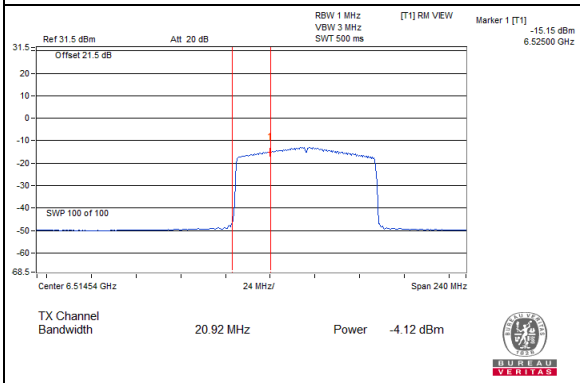
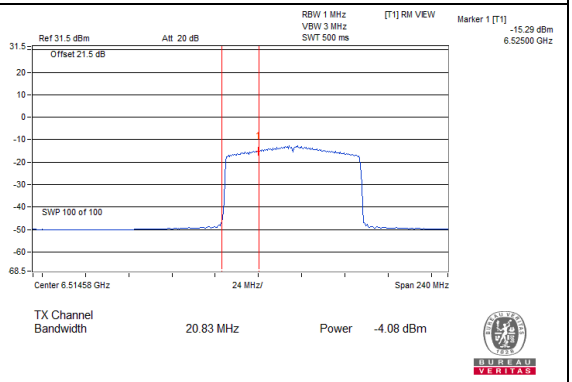
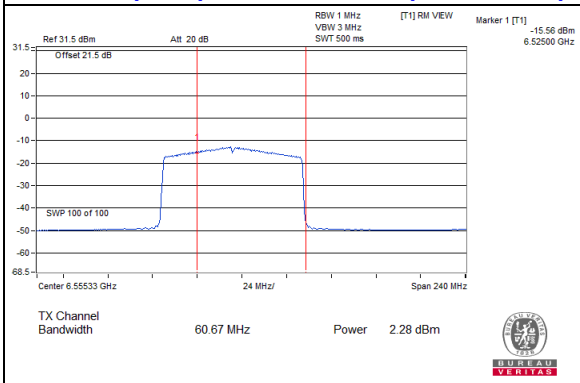
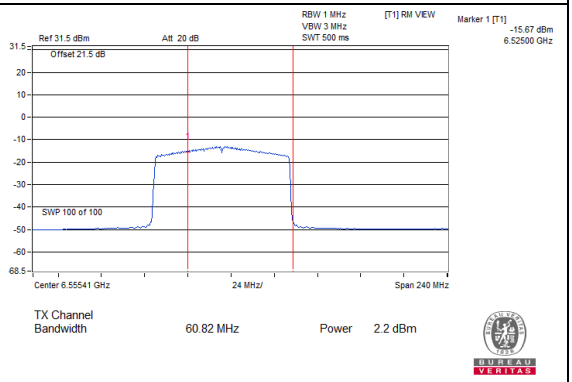
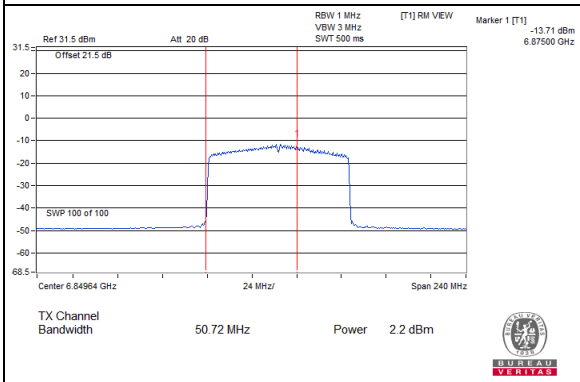
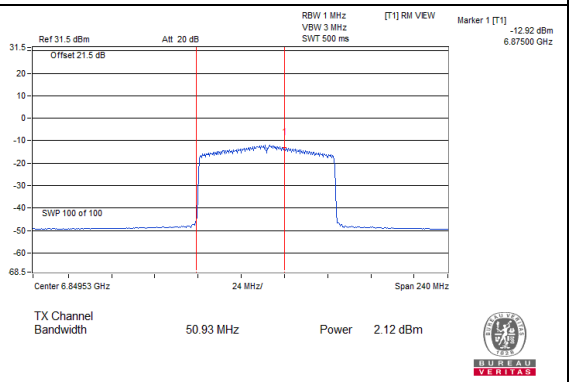
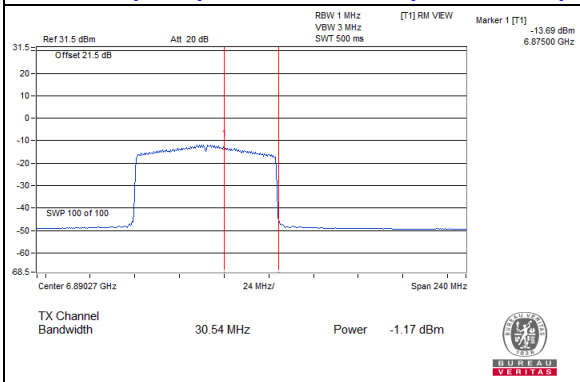
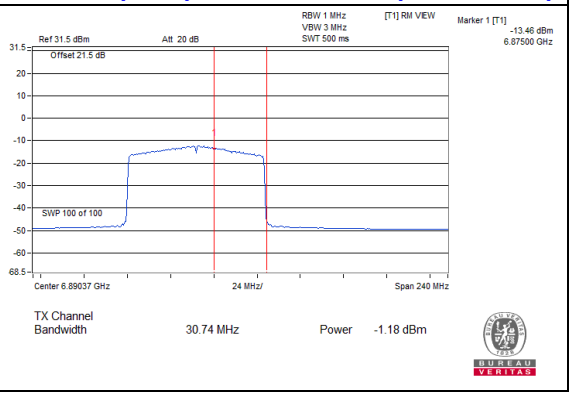


TX Channel Bandwidth 30.4 MHz Power 0.83 dBm

802.11ax (HE40)_Chain 1 / CH187 (U-NII-8 Band)



TX Channel Bandwidth 30.58 MHz Power 1.21 dBm

Spectrum Plot Value of Power	
802.11ax (HE80)_Chain 0 / CH119 (U-NII-6 Band)	**802.11ax (HE80)_Chain 1 / CH119 (U-NII-6 Band)**
 TX Channel Bandwidth 20.92 MHz Power -4.12 dBm	 TX Channel Bandwidth 20.83 MHz Power -4.08 dBm
802.11ax (HE80)_Chain 0 / CH119 (U-NII-7 Band)	**802.11ax (HE80)_Chain 1 / CH119 (U-NII-7 Band)**
 TX Channel Bandwidth 60.67 MHz Power 2.28 dBm	 TX Channel Bandwidth 60.82 MHz Power 2.2 dBm
802.11ax (HE80)_Chain 0 / CH183 (U-NII-7 Band)	**802.11ax (HE80)_Chain 1 / CH183 (U-NII-7 Band)**
 TX Channel Bandwidth 50.72 MHz Power 2.2 dBm	 TX Channel Bandwidth 50.93 MHz Power 2.12 dBm
802.11ax (HE80)_Chain 0 / CH183 (U-NII-8 Band)	**802.11ax (HE80)_Chain 1 / CH183 (U-NII-8 Band)**
 TX Channel Bandwidth 30.54 MHz Power -1.17 dBm	 TX Channel Bandwidth 30.74 MHz Power -1.18 dBm

5 Pictures of Test Arrangements

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

Appendix A– Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
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Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

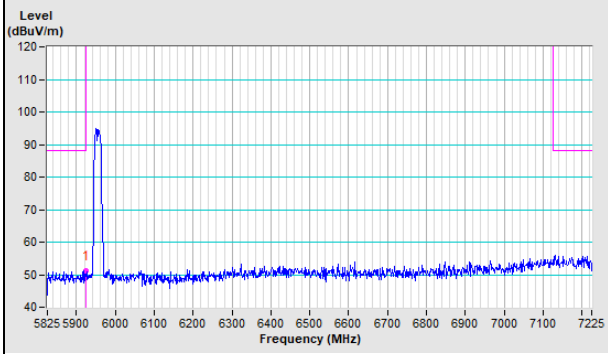
The address and road map of all our labs can be found in our web site also.

--- END ---

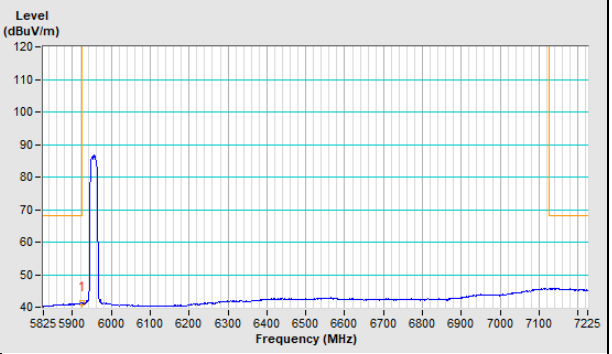
Annex B - Band-Edge Measurement

802.11ax (HE20) Channel 1

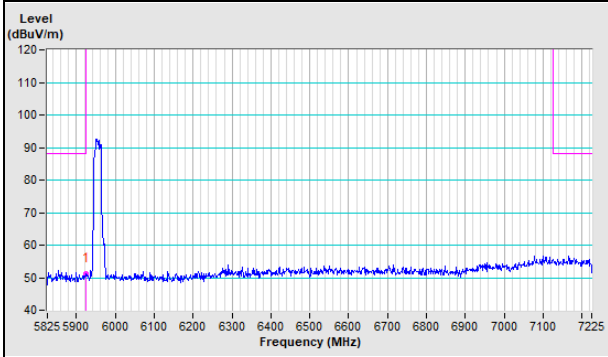
Horizontal (Peak)



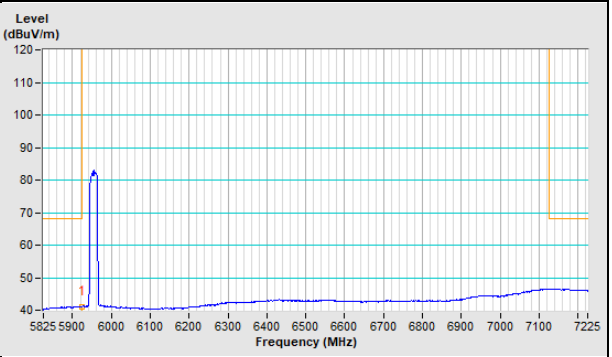
Horizontal (Average)



Vertical (Peak)

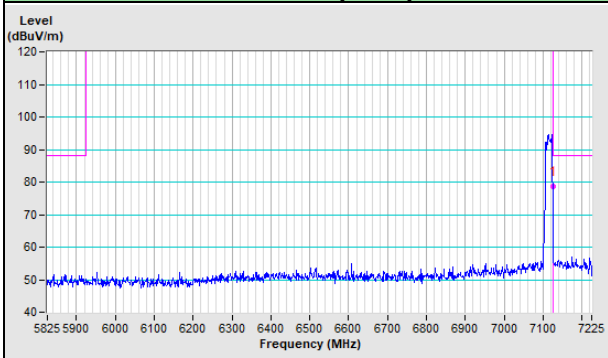


Vertical (Average)

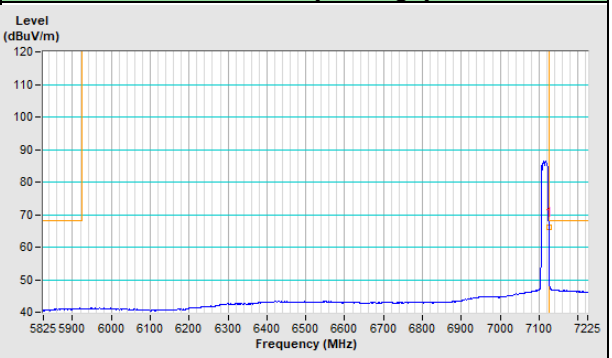


802.11ax (HE20) Channel 233

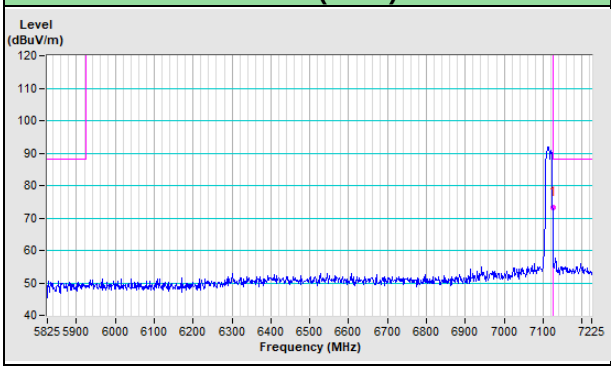
Horizontal (Peak)



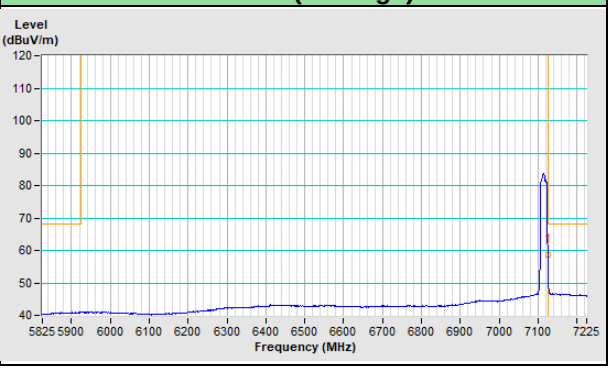
Horizontal (Average)



Vertical (Peak)

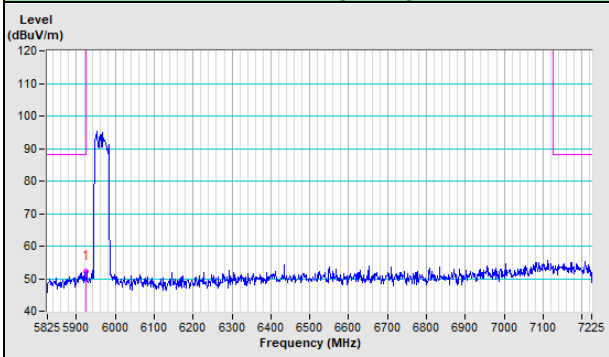


Vertical (Average)

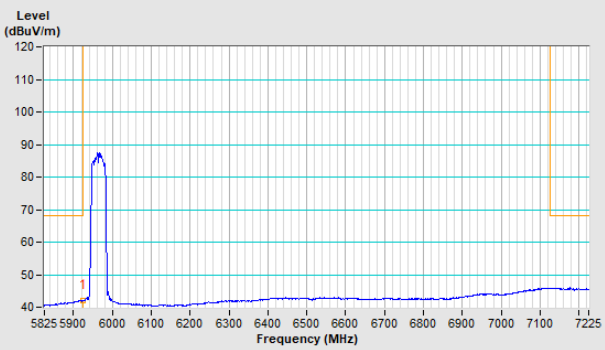


802.11ax (HE40) Channel 3

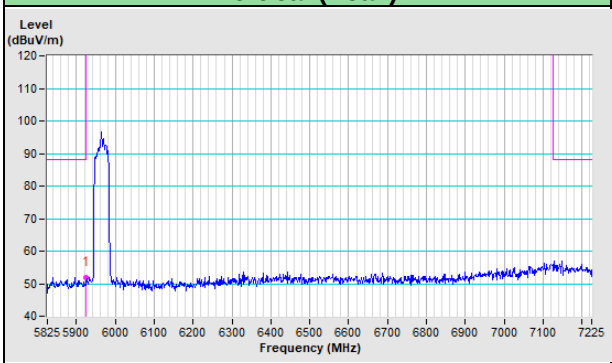
Horizontal (Peak)



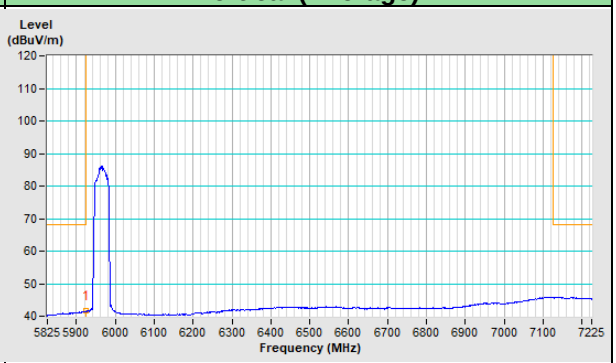
Horizontal (Average)



Vertical (Peak)

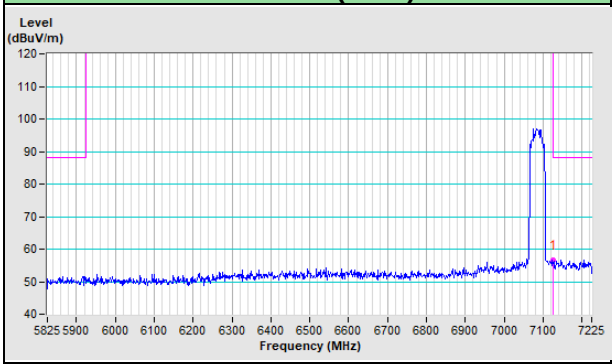


Vertical (Average)

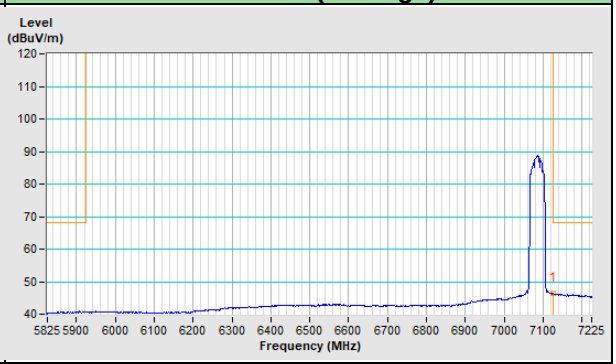


802.11ax (HE40) Channel 227

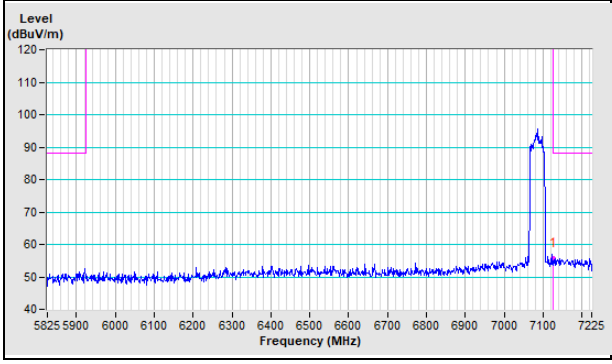
Horizontal (Peak)



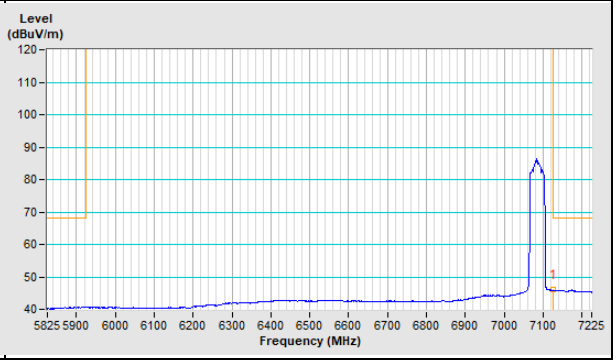
Horizontal (Average)



Vertical (Peak)

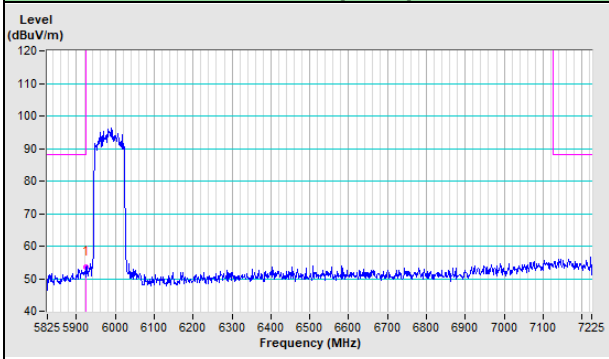


Vertical (Average)

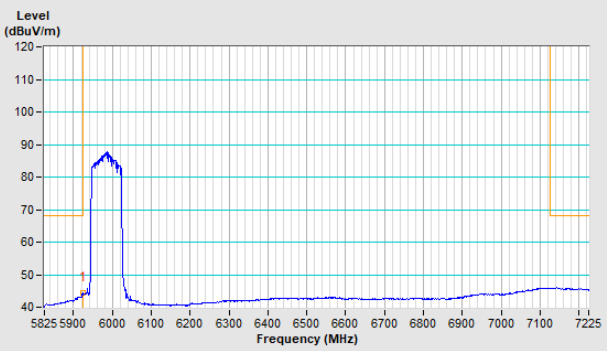


802.11ax (HE80) Channel 7

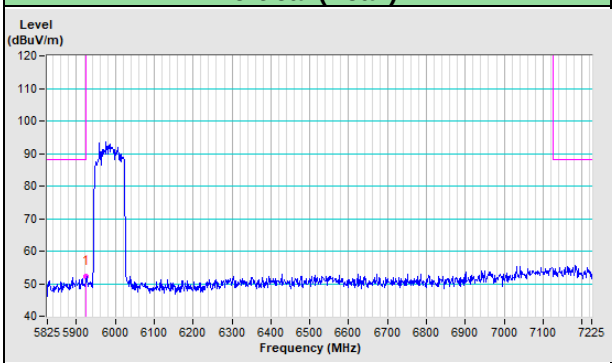
Horizontal (Peak)



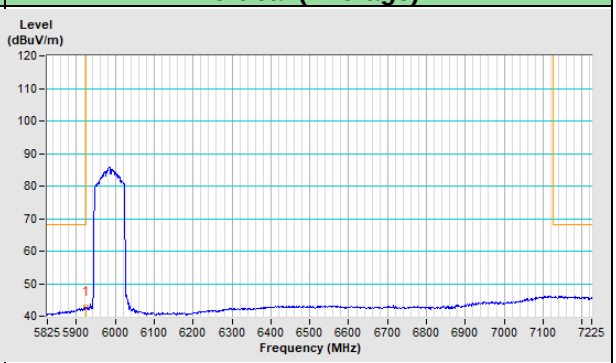
Horizontal (Average)



Vertical (Peak)

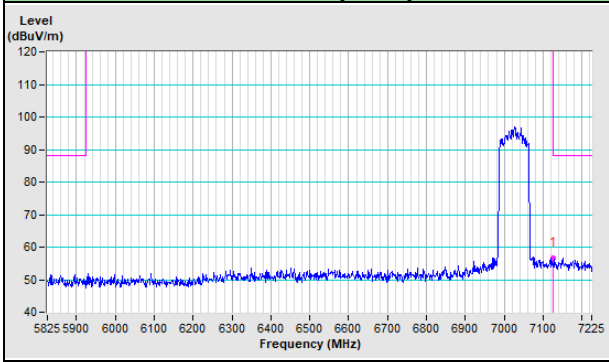


Vertical (Average)

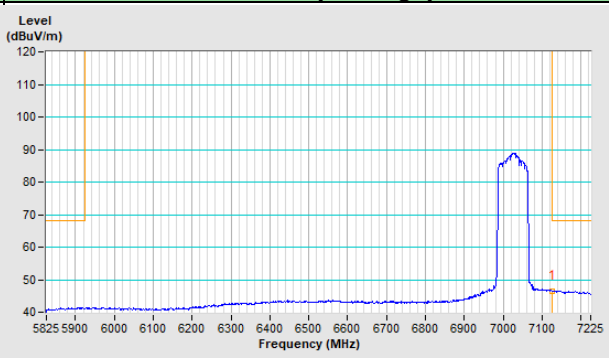


802.11ax (HE80) Channel 215

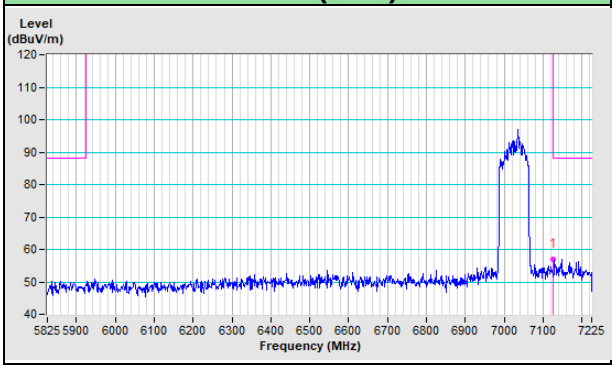
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)