

FCC Test Report

Report No.: RFBARR-WTW-P21030485D

FCC ID: RAS-MT7922A22M

Test Model: MT7922A22M

Received Date: 2021/10/18

Test Date: 2021/11/10 ~ 2021/11/16

Issued Date: 2021/12/20

Applicant: MediaTek Inc.

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

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21030485D	Original release.	2021/12/20

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A22M

Sample Status: Engineering sample

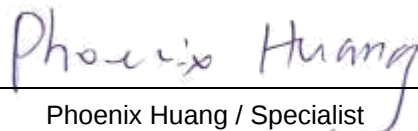
Applicant: MediaTek Inc.

Test Date: 2021/11/10 ~ 2021/11/16

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 :


Phoenix Huang / Specialist

Date:

2021/12/20

Approved by :


Clark Lin / Technical Manager

Date:

2021/12/20

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -11.98 dB at 0.15000 MHz.
15.407(b)(5)(8)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.2 dB at 5921.40 MHz.
15.407(a)(3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.403	Operational restrictions U-NII 4 devices	Pass	Declaration by applicant
15.203 or 15.403	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) 、RP SMA PLUG or R-SMA not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.5 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.1 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) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A22M
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only 1024QAM for OFDMA in 11ax mode only
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5.845 ~ 5.885 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1
EIRP	27.72 dBm (591.562 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

- This report is prepared for FCC class II change. The difference compared with the Report No.: RFBARR-WTW-P21030485A-5 as the following:
 - ◆ Enable U-NII-4 and U-NII-3 & -4 span channels through software change.
 - ◆ Add antenna sets (Refer to note 5).
- According to above conditions, all of test items need to be performed and all data was tested to meet the requirements.
- There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
- Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth
3	WLAN (5.9GHz)	Bluetooth

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

5. The antenna information is listed as below.

Original

Ant. Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
3	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA	150
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA	150

Newly

Ant. Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
5	Chain0	MSI	WA-P-LE-02-045 (Main)	2.24 2.68 3.01 -1.23 -1.96 -3.68	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	IPEX-4L	190
	Chain1	MSI	WA-P-LE-02-046 (Aux)	-2.96 1.16 0.99 -2.31 -2.54 -7.44	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	IPEX-4L	325
6	Chain0	PSA	RFPCA460632IMMB701	-13.20 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320mm
	Chain1	PSA	RFPCA460632IMMB701	-13.20 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320mm
7	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX	300mm
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX	300mm

Note:

1. For Radiated Emission test, the **Antenna Set 1** and **Antenna Set 4** were selected for the final test.
2. For other test items, the max. gain (**Antenna Set 1**) was selected for the final test.

6. The EUT incorporates a MIMO function:

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
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/1992)	2TX	2RX

Note:

1. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz, 80MHz, 160MHz), 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.
2. For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

7. 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.
8. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Description of Test Modes

For U-NII-4

3 channels are provided for 802.11a, 802.11n, 802.11ac, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
*169	5845 MHz	173	5865 MHz	177	5885 MHz

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

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

1 channel is provided for 802.11n, 802.11ac, 802.11ax (HE160):

Channel	Frequency
*163	5815 MHz

Note: *U-NII-3 & -4 span channels

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

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

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

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

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, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11a	169 to 177	169, 173, 177	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)	169 to 177	169, 173, 177	OFDMA	BPSK	MCS0	-
802.11ax (HE40)	167 to 175	167, 175	OFDMA	BPSK	MCS0	-
802.11ax (HE80)	171	171	OFDMA	BPSK	MCS0	-
802.11ax (HE160)	163	163	OFDMA	BPSK	MCS0	-
802.11ax (RU26)	169 to 177	177	OFDMA	BPSK	MCS0	26/8
802.11ax (RU52)	169 to 177	177	OFDMA	BPSK	MCS0	52/40
802.11ax (RU106)	169 to 177	177	OFDMA	BPSK	MCS0	106/54

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, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	171	171	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	171	171	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11a	169 to 177	169, 173, 177	OFDM	BPSK	6Mb/s	
802.11ac (VHT20) (output power only)	169 to 177	169, 173, 177	OFDM	BPSK	MCS0	-
802.11ac (VHT40) (output power only)	167 to 175	167, 175	OFDM	BPSK	MCS0	-
802.11ac (VHT80) (output power only)	171	171	OFDM	BPSK	MCS0	-
802.11ac (VHT160) (output power only)	163	163	OFDM	BPSK	MCS0	-
802.11ax (HE20)	169 to 177	169, 173, 177	OFDMA	BPSK	MCS0	
802.11ax (HE40)	167 to 175	167, 175	OFDMA	BPSK	MCS0	
802.11ax (HE80)	171	171	OFDMA	BPSK	MCS0	
802.11ax (HE160)	163	163	OFDMA	BPSK	MCS0	
802.11ax (RU26)	169 to 177	177	OFDMA	BPSK	MCS0	26/8
802.11ax (RU52)	169 to 177	177	OFDMA	BPSK	MCS0	52/40
802.11ax (RU106)	169 to 177	177	OFDMA	BPSK	MCS0	106/54

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE$\geq$1G	23~25deg. C, 61~75%RH	120Vac, 60Hz	Sampson Chen, Nelson Teng, Angus Peng,
RE<1G	22deg. C, 62%RH	120Vac, 60Hz	Sampson Chen
PLC	25deg. C, 69%RH	120Vac, 60Hz	Sampson Chen
APCM	23deg. C, 66%RH	120Vac, 60Hz	Eric Peng

3.3 Duty Cycle of Test Signal

For Legacy mode:

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

802.11a: Duty cycle = 5.48 ms/5.813 ms = 0.943, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.26 \text{ dB}$

802.11ax (HE20): Duty cycle = 3.878 ms/4.215 ms = 0.92, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.36 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.785 ms/4.254 ms = 0.89, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.51 \text{ dB}$

802.11ax (HE80): Duty cycle = 1.843 ms/2.312 ms = 0.797, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.98 \text{ dB}$

802.11ax (HE160): Duty cycle = 0.955 ms/1.429 ms = 0.668, Duty factor = $10 * \log (1/\text{Duty cycle}) = 1.75 \text{ dB}$



For RU mode:

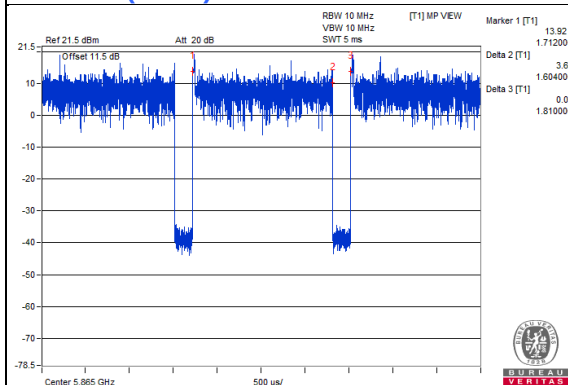
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11ax (RU26): Duty cycle = 1.604 ms/1.81 ms = 0.886, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.52 \text{ dB}$

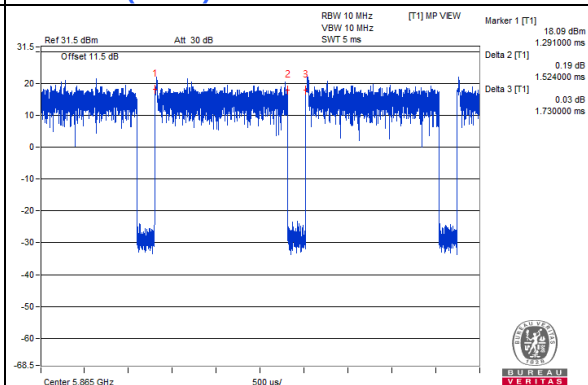
802.11ax (RU52): Duty cycle = 1.524 ms/1.73 ms = 0.881, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.55 \text{ dB}$

802.11ax (RU106): Duty cycle = 1.399 ms/1.616 ms = 0.866, Duty factor = $10 * \log (1/\text{Duty cycle}) = 0.63 \text{ dB}$

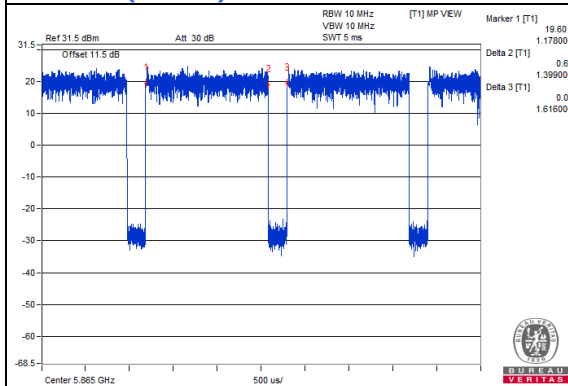
802.11ax (RU26)



802.11ax (RU52)



802.11ax (RU106)



3.4 Description of Support Units

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

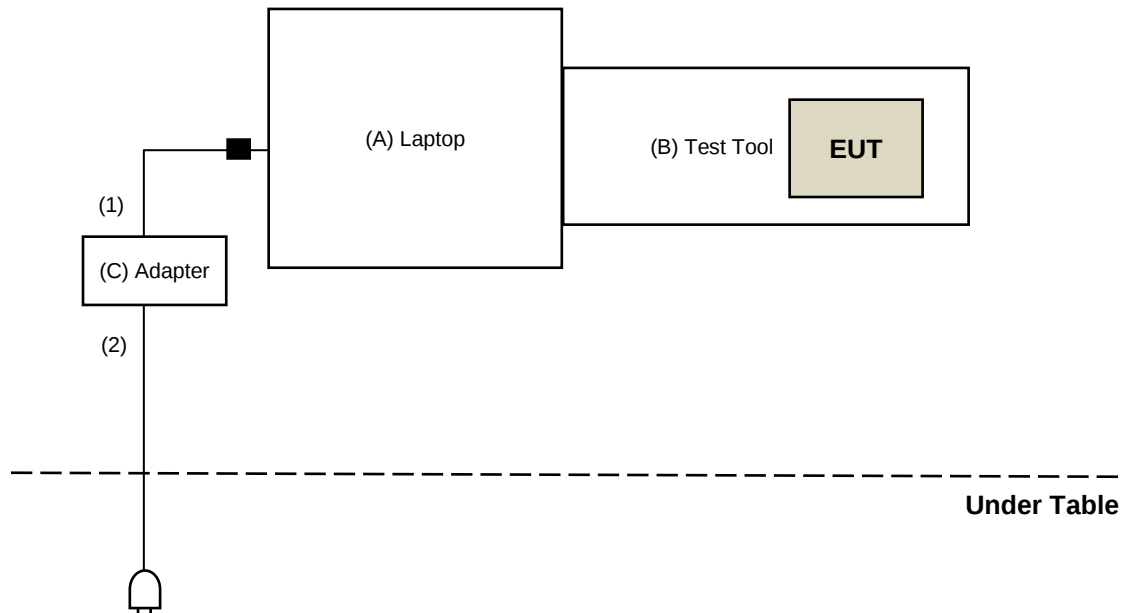
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E5430	HYV4VY1	FCC DoC	Provided by Lab
B.	Test Tool	Mediatek	MTK1849	NA	NA	Supplied by Applicant
C.	Adapter	Dell	LA65NS2-01	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	1	Provided by Lab
2.	AC Cable	1	1.8	No	0	Provided by Lab

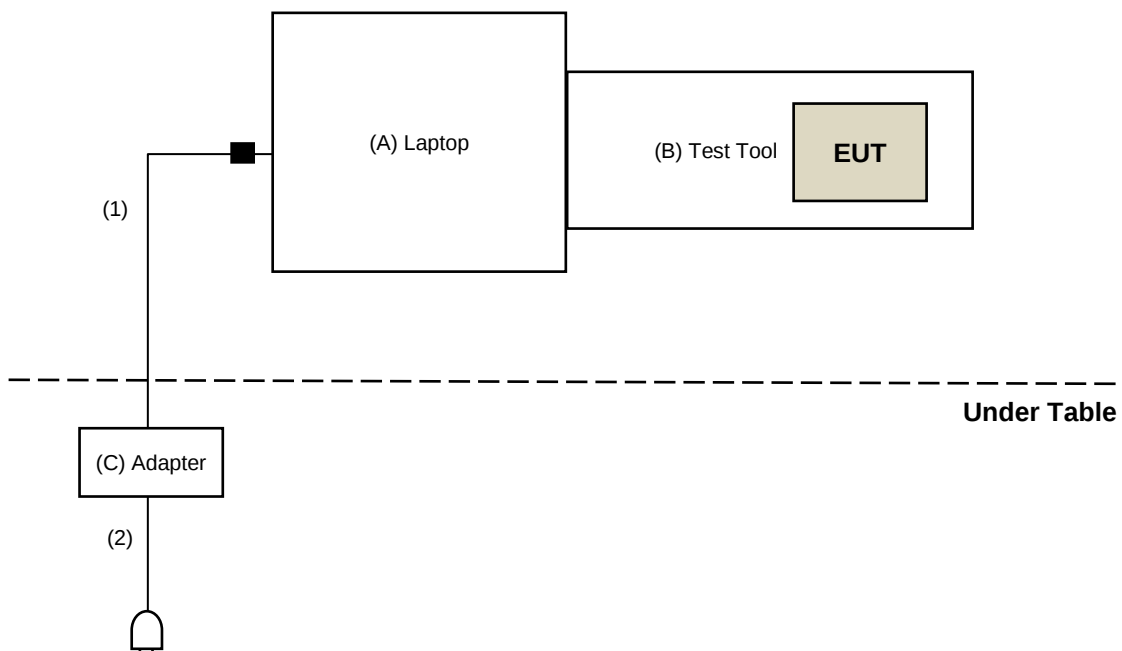
Note: The core is originally attached to the cable.

3.4.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emission test:



3.5 General Description of Applied Standards and References

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

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

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

References Test Guidance:

KDB 291074 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

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Note:

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

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

4.1.2 Test Instruments

For Radiated Emission & Bandedge of Dipole Ant. test:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal Analyzer Keysight	N9010A	MY56070348	2021/9/15	2022/9/14
MXE EMI Receiver KEYSIGHT	N9038B	MY60180019	2021/2/1	2022/1/31
Software	ADT_Radiated_V8 .7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23
LOOP ANTENNA Electro-Metrics	EM-6879	264	2021/3/5	2022/3/4
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2021/1/7	2022/1/6
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2021/1/7	2022/1/6
Pre_Amplifier EMCI	EMC330N	980701	2021/3/10	2022/3/9
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2021/10/27	2022/10/26
RF Coaxial Cable COMDATE/PEWC	8D	966-4-1	2021/3/17	2022/3/16
RF Coaxial Cable COMDATE/PEWC	8D	966-4-2	2021/3/17	2022/3/16
RF Coaxial Cable COMDATE/PEWC	8D	966-4-3	2021/3/17	2022/3/16
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM- 1200	160922	2020/12/25	2021/12/24
RF Coaxial Cable EMCI	EMC104-SM-SM- 2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM- 6000	180418	2021/4/26	2022/4/25
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM- 1200	160924	2021/1/11	2022/1/10
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

- Note: 1. The test was performed in 966 Chamber No. 4.
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: 2021/11/15 ~ 2021/11/16

For Bandedge of PIFA Ant. test:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal Analyzer Keysight	N9010A	MY56070348	2021/9/15	2022/9/14
MXE EMI Receiver KEYSIGHT	N9038B	MY60180019	2021/2/1	2022/1/31
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2020/11/22	2021/11/21
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2020/12/25	2021/12/24
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	180418	2021/4/26	2022/4/25
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2020/11/22	2021/11/21
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2021/1/11	2022/1/10
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

- Note: 1. The test was performed in 966 Chamber No. 4.
 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: 2021/11/10 ~ 2021/11/13

For other test items:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA
AC Power Source GOOD WILL	6905S	1991551	NA	NA
DC POWER SUPPLY Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP- AR	MAA0812-008	2021/1/14	2022/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1

- 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: 2021/11/16

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

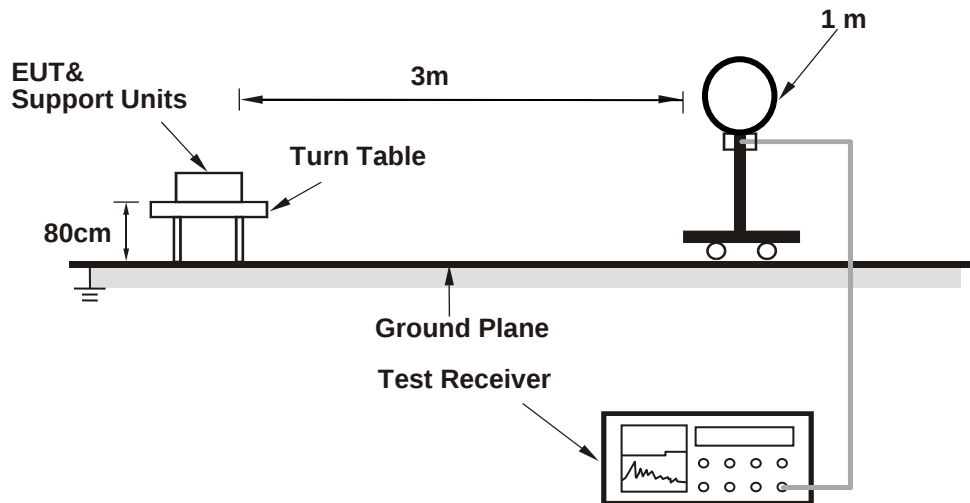
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving 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:

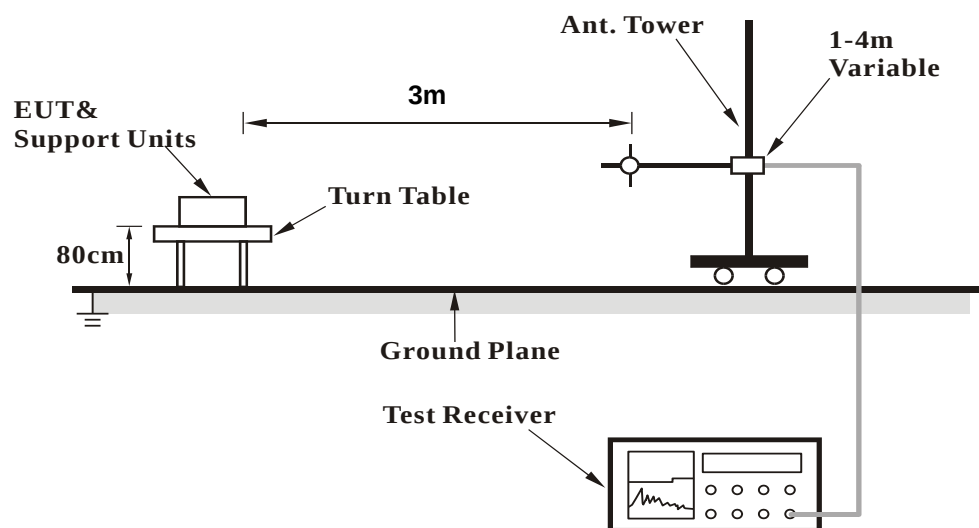
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) 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

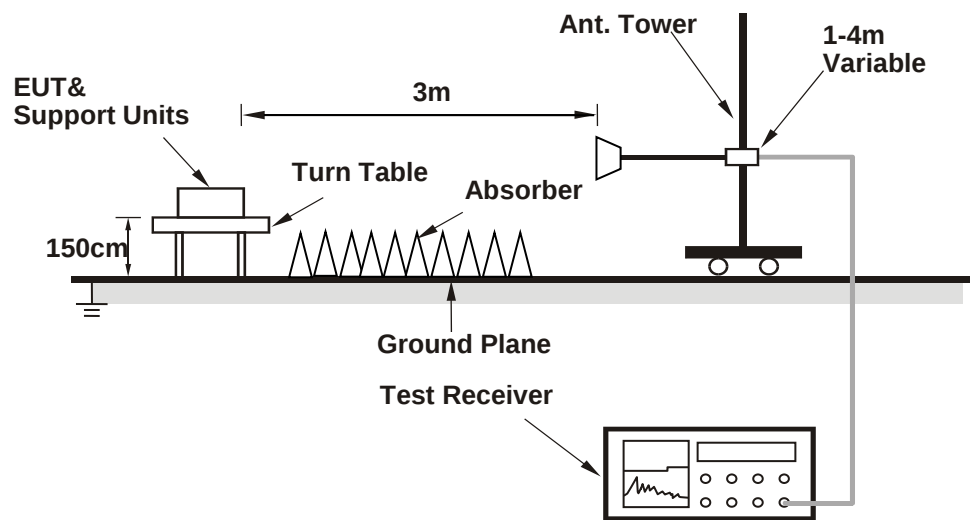
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Controlling software (QATool_Dbg.exe) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.6 Test Results

Antenna Set 1 (Model: RFMTA340718EMLB302)

Above 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
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	*5845.00	120.8 PK			1.93 H	85	118.9	1.9
2	*5845.00	111.8 AV			1.93 H	85	109.9	1.9
3	11690.00	58.1 PK	74.0	-15.9	2.08 H	42	46.7	11.4
4	11690.00	47.9 AV	54.0	-6.1	2.08 H	42	36.5	11.4
5	#17535.00	58.5 PK	88.2	-29.7	2.31 H	107	41.6	16.9
6	#17535.00	48.3 AV	68.2	-19.9	2.31 H	107	31.4	16.9
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	*5845.00	114.9 PK			1.78 V	35	113.0	1.9
2	*5845.00	106.9 AV			1.78 V	35	105.0	1.9
3	11690.00	57.5 PK	74.0	-16.5	1.73 V	94	46.1	11.4
4	11690.00	46.5 AV	54.0	-7.5	1.73 V	94	35.1	11.4
5	#17535.00	53.7 PK	88.2	-34.5	3.13 V	202	36.8	16.9
6	#17535.00	43.6 AV	68.2	-24.6	3.13 V	202	26.7	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 802.11a	Channel	CH 173 : 5.865 GHz
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	*5865.00	121.1 PK			2.03 H	89	119.2	1.9
2	*5865.00	112.4 AV			2.03 H	89	110.5	1.9
3	11730.00	58.1 PK	74.0	-15.9	2.74 H	46	46.7	11.4
4	11730.00	47.3 AV	54.0	-6.7	2.74 H	46	35.9	11.4
5	#17595.00	57.9 PK	88.2	-30.3	2.33 H	106	40.6	17.3
6	#17595.00	47.6 AV	68.2	-20.6	2.33 H	106	30.3	17.3
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	*5865.00	115.2 PK			1.50 V	40	113.3	1.9
2	*5865.00	107.3 AV			1.50 V	40	105.4	1.9
3	11730.00	57.8 PK	74.0	-16.2	1.70 V	88	46.4	11.4
4	11730.00	46.6 AV	54.0	-7.4	1.70 V	88	35.2	11.4
5	#17595.00	53.9 PK	88.2	-34.3	3.18 V	212	36.6	17.3
6	#17595.00	43.6 AV	68.2	-24.6	3.18 V	212	26.3	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 802.11a	Channel	CH 177 : 5.885 GHz
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	*5885.00	118.1 PK			2.00 H	86	116.5	1.6
2	*5885.00	110.3 AV			2.00 H	86	108.7	1.6
3	11770.00	56.9 PK	74.0	-17.1	2.11 H	46	45.5	11.4
4	11770.00	45.6 AV	54.0	-8.4	2.11 H	46	34.2	11.4
5	#17655.00	57.1 PK	88.2	-31.1	2.32 H	105	39.2	17.9
6	#17655.00	45.8 AV	68.2	-22.4	2.32 H	105	27.9	17.9
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	*5885.00	112.7 PK			1.52 V	42	111.1	1.6
2	*5885.00	105.2 AV			1.52 V	42	103.6	1.6
3	11770.00	56.2 PK	74.0	-17.8	1.71 V	92	44.8	11.4
4	11770.00	44.9 AV	54.0	-9.1	1.71 V	92	33.5	11.4
5	#17655.00	52.3 PK	88.2	-35.9	3.16 V	225	34.4	17.9
6	#17655.00	41.9 AV	68.2	-26.3	3.16 V	225	24.0	17.9

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 169 : 5.845 GHz
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	*5845.00	120.3 PK			1.96 H	87	118.4	1.9
2	*5845.00	110.2 AV			1.96 H	87	108.3	1.9
3	11690.00	58.7 PK	74.0	-15.3	2.52 H	47	47.3	11.4
4	11690.00	47.8 AV	54.0	-6.2	2.52 H	47	36.4	11.4
5	#17535.00	54.9 PK	88.2	-33.3	2.36 H	105	38.0	16.9
6	#17535.00	44.7 AV	68.2	-23.5	2.36 H	105	27.8	16.9
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	*5845.00	115.7 PK			1.06 V	42	113.8	1.9
2	*5845.00	106.1 AV			1.06 V	42	104.2	1.9
3	11690.00	56.7 PK	74.0	-17.3	1.69 V	94	45.3	11.4
4	11690.00	46.0 AV	54.0	-8.0	1.69 V	94	34.6	11.4
5	#17535.00	53.8 PK	88.2	-34.4	3.08 V	201	36.9	16.9
6	#17535.00	43.7 AV	68.2	-24.5	3.08 V	201	26.8	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 173 : 5.865 GHz
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	*5865.00	120.6 PK			2.00 H	87	118.7	1.9
2	*5865.00	110.4 AV			2.00 H	87	108.5	1.9
3	11730.00	57.6 PK	74.0	-16.4	2.49 H	46	46.2	11.4
4	11730.00	48.1 AV	54.0	-5.9	2.49 H	46	36.7	11.4
5	#17595.00	57.3 PK	88.2	-30.9	2.33 H	106	40.0	17.3
6	#17595.00	47.2 AV	68.2	-21.0	2.33 H	106	29.9	17.3
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	*5865.00	115.4 PK			1.10 V	45	113.5	1.9
2	*5865.00	105.9 AV			1.10 V	45	104.0	1.9
3	11730.00	57.8 PK	74.0	-16.2	1.74 V	85	46.4	11.4
4	11730.00	46.5 AV	54.0	-7.5	1.74 V	85	35.1	11.4
5	#17595.00	53.4 PK	88.2	-34.8	3.17 V	203	36.1	17.3
6	#17595.00	43.2 AV	68.2	-25.0	3.17 V	203	25.9	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 177 : 5.885 GHz
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	*5885.00	115.1 PK			1.93 H	96	113.5	1.6
2	*5885.00	105.2 AV			1.93 H	96	103.6	1.6
3	11770.00	57.0 PK	74.0	-17.0	2.14 H	38	45.6	11.4
4	11770.00	45.5 AV	54.0	-8.5	2.14 H	38	34.1	11.4
5	#17655.00	56.9 PK	88.2	-31.3	2.31 H	98	39.0	17.9
6	#17655.00	45.7 AV	68.2	-22.5	2.31 H	98	27.8	17.9
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	*5885.00	109.9 PK			1.02 V	39	108.3	1.6
2	*5885.00	102.9 AV			1.02 V	39	101.3	1.6
3	11770.00	56.2 PK	74.0	-17.8	1.68 V	84	44.8	11.4
4	11770.00	45.0 AV	54.0	-9.0	1.68 V	84	33.6	11.4
5	#17655.00	52.8 PK	88.2	-35.4	3.12 V	236	34.9	17.9
6	#17655.00	42.1 AV	68.2	-26.1	3.12 V	236	24.2	17.9

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 (HE40)	Channel	CH 167 : 5.835 GHz
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	*5835.00	117.8 PK			2.02 H	94	116.0	1.8
2	*5835.00	108.4 AV			2.02 H	94	106.6	1.8
3	11670.00	58.2 PK	74.0	-15.8	2.57 H	51	46.9	11.3
4	11670.00	47.4 AV	54.0	-6.6	2.57 H	51	36.1	11.3
5	#17505.00	54.4 PK	88.2	-33.8	2.35 H	104	37.7	16.7
6	#17505.00	44.3 AV	68.2	-23.9	2.35 H	104	27.6	16.7
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	*5835.00	112.8 PK			1.02 V	46	111.0	1.8
2	*5835.00	103.5 AV			1.02 V	46	101.7	1.8
3	11670.00	57.1 PK	74.0	-16.9	1.67 V	92	45.8	11.3
4	11670.00	46.2 AV	54.0	-7.8	1.67 V	92	34.9	11.3
5	#17505.00	53.6 PK	88.2	-34.6	3.14 V	209	36.9	16.7
6	#17505.00	43.3 AV	68.2	-24.9	3.14 V	209	26.6	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 175 : 5.875 GHz
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	*5875.00	115.7 PK			2.00 H	93	114.0	1.7
2	*5875.00	105.9 AV			2.00 H	93	104.2	1.7
3	11750.00	57.2 PK	74.0	-16.8	2.47 H	46	45.8	11.4
4	11750.00	46.8 AV	54.0	-7.2	2.47 H	46	35.4	11.4
5	#17625.00	54.4 PK	88.2	-33.8	2.40 H	120	36.8	17.6
6	#17625.00	44.5 AV	68.2	-23.7	2.40 H	120	26.9	17.6
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	*5875.00	111.3 PK			1.06 V	54	109.6	1.7
2	*5875.00	102.1 AV			1.06 V	54	100.4	1.7
3	11750.00	56.5 PK	74.0	-17.5	1.71 V	95	45.1	11.4
4	11750.00	45.4 AV	54.0	-8.6	1.71 V	95	34.0	11.4
5	#17625.00	53.5 PK	88.2	-34.7	3.14 V	203	35.9	17.6
6	#17625.00	43.3 AV	68.2	-24.9	3.14 V	203	25.7	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 171 : 5.855 GHz
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	*5855.00	112.5 PK			2.04 H	92	110.6	1.9
2	*5855.00	102.8 AV			2.04 H	92	100.9	1.9
3	11710.00	57.1 PK	74.0	-16.9	2.53 H	54	45.7	11.4
4	11710.00	46.2 AV	54.0	-7.8	2.53 H	54	34.8	11.4
5	#17565.00	54.0 PK	88.2	-34.2	2.38 H	106	37.0	17.0
6	#17565.00	44.4 AV	68.2	-23.8	2.38 H	106	27.4	17.0
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	*5855.00	107.8 PK			1.11 V	48	105.9	1.9
2	*5855.00	97.9 AV			1.11 V	48	96.0	1.9
3	11710.00	55.8 PK	74.0	-18.2	1.68 V	89	44.4	11.4
4	11710.00	45.0 AV	54.0	-9.0	1.68 V	89	33.6	11.4
5	#17565.00	54.0 PK	88.2	-34.2	3.13 V	199	37.0	17.0
6	#17565.00	44.2 AV	68.2	-24.0	3.13 V	199	27.2	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 (HE160)	Channel	CH 163 : 5.815 GHz
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	*5815.00	105.2 PK			2.05 H	89	103.5	1.7
2	*5815.00	95.8 AV			2.05 H	89	94.1	1.7
3	11630.00	55.1 PK	74.0	-18.9	2.58 H	53	43.9	11.2
4	11630.00	43.8 AV	54.0	-10.2	2.58 H	53	32.6	11.2
5	#17445.00	54.4 PK	88.2	-33.8	2.33 H	101	38.2	16.2
6	#17445.00	44.9 AV	68.2	-23.3	2.33 H	101	28.7	16.2
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	*5815.00	100.3 PK			1.10 V	51	98.6	1.7
2	*5815.00	90.2 AV			1.10 V	51	88.5	1.7
3	11630.00	54.4 PK	74.0	-19.6	1.70 V	97	43.2	11.2
4	11630.00	42.3 AV	54.0	-11.7	1.70 V	97	31.1	11.2
5	#17445.00	52.2 PK	88.2	-36.0	3.11 V	195	36.0	16.2
6	#17445.00	42.8 AV	68.2	-25.4	3.11 V	195	26.6	16.2

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 (RU26)	Channel	CH 177 : 5.885 GHz
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	*5885.00	115.8 PK			1.92 H	93	114.2	1.6
2	*5885.00	105.3 AV			1.92 H	93	103.7	1.6
3	11770.00	54.8 PK	74.0	-19.2	2.48 H	48	43.4	11.4
4	11770.00	45.3 AV	54.0	-8.7	2.48 H	48	33.9	11.4
5	#17655.00	54.2 PK	88.2	-34.0	1.94 H	108	36.3	17.9
6	#17655.00	43.5 AV	68.2	-24.7	1.94 H	108	25.6	17.9
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	*5885.00	110.5 PK			1.51 V	41	108.9	1.6
2	*5885.00	100.3 AV			1.51 V	41	98.7	1.6
3	11770.00	52.8 PK	74.0	-21.2	1.76 V	90	41.4	11.4
4	11770.00	43.8 AV	54.0	-10.2	1.76 V	90	32.4	11.4
5	#17655.00	52.0 PK	88.2	-36.2	3.11 V	208	34.1	17.9
6	#17655.00	42.7 AV	68.2	-25.5	3.11 V	208	24.8	17.9

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 (RU52)	Channel	CH 177 : 5.885 GHz
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	*5885.00	115.8 PK			1.92 H	93	114.2	1.6
2	*5885.00	106.1 AV			1.92 H	93	104.5	1.6
3	11770.00	55.1 PK	74.0	-18.9	2.50 H	50	43.7	11.4
4	11770.00	45.8 AV	54.0	-8.2	2.50 H	50	34.4	11.4
5	#17655.00	54.9 PK	88.2	-33.3	1.89 H	105	37.0	17.9
6	#17655.00	44.0 AV	68.2	-24.2	1.89 H	105	26.1	17.9
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	*5885.00	109.8 PK			1.52 V	38	108.2	1.6
2	*5885.00	99.8 AV			1.52 V	38	98.2	1.6
3	11770.00	52.5 PK	74.0	-21.5	1.73 V	84	41.1	11.4
4	11770.00	43.4 AV	54.0	-10.6	1.73 V	84	32.0	11.4
5	#17655.00	52.2 PK	88.2	-36.0	3.07 V	210	34.3	17.9
6	#17655.00	42.8 AV	68.2	-25.4	3.07 V	210	24.9	17.9

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 (RU106)	Channel	CH 177 : 5.885 GHz
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	*5885.00	113.5 PK			1.90 H	93	111.9	1.6
2	*5885.00	103.9 AV			1.90 H	93	102.3	1.6
3	11770.00	53.2 PK	74.0	-20.8	2.42 H	51	41.8	11.4
4	11770.00	43.8 AV	54.0	-10.2	2.42 H	51	32.4	11.4
5	#17655.00	54.4 PK	88.2	-33.8	1.95 H	113	36.5	17.9
6	#17655.00	43.5 AV	68.2	-24.7	1.95 H	113	25.6	17.9
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	*5885.00	108.7 PK			1.48 V	42	107.1	1.6
2	*5885.00	98.6 AV			1.48 V	42	97.0	1.6
3	11770.00	51.9 PK	74.0	-22.1	1.76 V	81	40.5	11.4
4	11770.00	41.8 AV	54.0	-12.2	1.76 V	81	30.4	11.4
5	#17655.00	51.8 PK	88.2	-36.4	3.17 V	189	33.9	17.9
6	#17655.00	42.5 AV	68.2	-25.7	3.17 V	189	24.6	17.9

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.

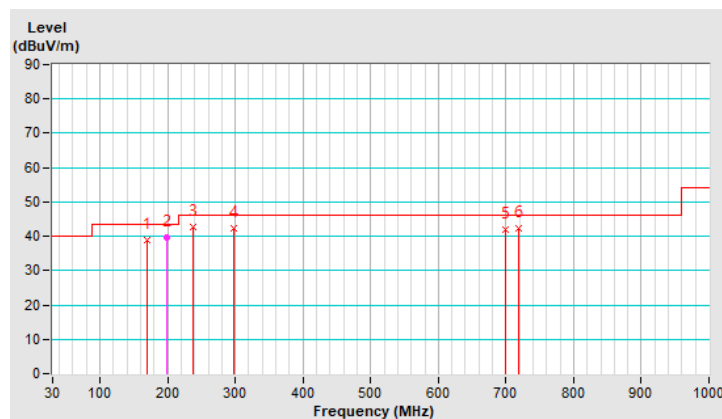
Below 1GHz Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
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	169.73	38.8 QP	43.5	-4.7	1.00 H	148	51.3	-12.5
2	198.05	39.8 QP	43.5	-3.7	2.00 H	107	54.8	-15.0
3	238.39	42.8 QP	46.0	-3.2	1.50 H	117	56.1	-13.3
4	297.83	42.3 QP	46.0	-3.7	1.50 H	269	53.2	-10.9
5	699.98	41.9 QP	46.0	-4.1	2.00 H	217	42.5	-0.6
6	718.05	42.3 QP	46.0	-3.7	1.00 H	223	42.7	-0.4

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 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.

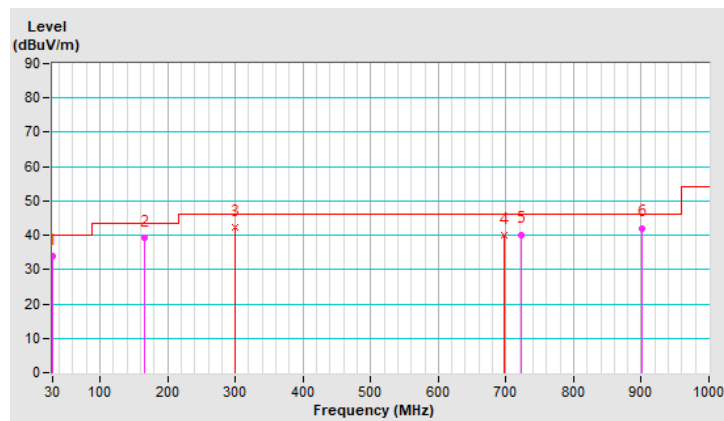


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	30.87	33.9 QP	40.0	-6.1	1.00 V	305	47.8	-13.9
2	165.34	39.1 QP	43.5	-4.4	2.00 V	311	51.4	-12.3
3	299.59	42.2 QP	46.0	-3.8	1.50 V	275	53.0	-10.8
4	697.99	40.1 QP	46.0	-5.9	1.50 V	205	40.7	-0.6
5	722.25	40.2 QP	46.0	-5.8	1.50 V	240	40.5	-0.3
6	901.67	42.1 QP	46.0	-3.9	1.00 V	188	38.8	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 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.



Antenna Set 4 (Model: AN2450-4902BRS)

Above 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
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	*5845.00	112.1 PK			1.32 H	203	110.2	1.9
2	*5845.00	103.3 AV			1.32 H	203	101.4	1.9
3	11690.00	52.7 PK	74.0	-21.3	1.45 H	251	41.3	11.4
4	11690.00	42.3 AV	54.0	-11.7	1.45 H	251	30.9	11.4
5	#17535.00	52.7 PK	88.2	-35.5	2.32 H	187	35.8	16.9
6	#17535.00	43.2 AV	68.2	-25.0	2.32 H	187	26.3	16.9
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	*5845.00	119.6 PK			1.33 V	225	117.7	1.9
2	*5845.00	110.4 AV			1.33 V	225	108.5	1.9
3	11690.00	56.9 PK	74.0	-17.1	2.30 V	217	45.5	11.4
4	11690.00	47.0 AV	54.0	-7.0	2.30 V	217	35.6	11.4
5	#17535.00	53.3 PK	88.2	-34.9	2.53 V	346	36.4	16.9
6	#17535.00	44.1 AV	68.2	-24.1	2.53 V	346	27.2	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 802.11a	Channel	CH 173 : 5.865 GHz
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	*5865.00	111.8 PK			1.33 H	205	109.9	1.9
2	*5865.00	103.1 AV			1.33 H	205	101.2	1.9
3	11730.00	53.2 PK	74.0	-20.8	1.43 H	262	41.8	11.4
4	11730.00	42.5 AV	54.0	-11.5	1.43 H	262	31.1	11.4
5	#17595.00	52.8 PK	88.2	-35.4	2.37 H	209	35.5	17.3
6	#17595.00	43.5 AV	68.2	-24.7	2.37 H	209	26.2	17.3
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	*5865.00	119.7 PK			1.34 V	223	117.8	1.9
2	*5865.00	110.5 AV			1.34 V	223	108.6	1.9
3	11730.00	56.8 PK	74.0	-17.2	2.28 V	220	45.4	11.4
4	11730.00	47.3 AV	54.0	-6.7	2.28 V	220	35.9	11.4
5	#17595.00	53.7 PK	88.2	-34.5	2.47 V	344	36.4	17.3
6	#17595.00	44.9 AV	68.2	-23.3	2.47 V	344	27.6	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 802.11a	Channel	CH 177 : 5.885 GHz
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	*5885.00	108.1 PK			1.38 H	210	106.5	1.6
2	*5885.00	100.1 AV			1.38 H	210	98.5	1.6
3	11770.00	51.3 PK	74.0	-22.7	1.44 H	277	39.9	11.4
4	11770.00	40.1 AV	54.0	-13.9	1.44 H	277	28.7	11.4
5	#17655.00	52.3 PK	88.2	-35.9	2.34 H	190	34.4	17.9
6	#17655.00	43.0 AV	68.2	-25.2	2.34 H	190	25.1	17.9
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	*5885.00	115.1 PK			1.32 V	358	113.5	1.6
2	*5885.00	107.2 AV			1.32 V	358	105.6	1.6
3	11770.00	53.8 PK	74.0	-20.2	2.29 V	229	42.4	11.4
4	11770.00	43.9 AV	54.0	-10.1	2.29 V	229	32.5	11.4
5	#17655.00	55.2 PK	88.2	-33.0	2.54 V	355	37.3	17.9
6	#17655.00	45.2 AV	68.2	-23.0	2.54 V	355	27.3	17.9

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 169 : 5.845 GHz
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	*5845.00	109.5 PK			1.26 H	214	107.6	1.9
2	*5845.00	100.2 AV			1.26 H	214	98.3	1.9
3	11690.00	52.9 PK	74.0	-21.1	1.40 H	251	41.5	11.4
4	11690.00	42.3 AV	54.0	-11.7	1.40 H	251	30.9	11.4
5	#17535.00	52.7 PK	88.2	-35.5	2.33 H	198	35.8	16.9
6	#17535.00	43.4 AV	68.2	-24.8	2.33 H	198	26.5	16.9
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	*5845.00	116.9 PK			1.33 V	223	115.0	1.9
2	*5845.00	108.0 AV			1.33 V	223	106.1	1.9
3	11690.00	56.6 PK	74.0	-17.4	2.28 V	228	45.2	11.4
4	11690.00	46.9 AV	54.0	-7.1	2.28 V	228	35.5	11.4
5	#17535.00	53.7 PK	88.2	-34.5	2.50 V	355	36.8	16.9
6	#17535.00	44.6 AV	68.2	-23.6	2.50 V	355	27.7	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 173 : 5.865 GHz
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	*5865.00	109.7 PK			1.27 H	201	107.8	1.9
2	*5865.00	100.3 AV			1.27 H	201	98.4	1.9
3	11730.00	52.4 PK	74.0	-21.6	1.35 H	247	41.0	11.4
4	11730.00	42.0 AV	54.0	-12.0	1.35 H	247	30.6	11.4
5	#17595.00	52.3 PK	88.2	-35.9	2.33 H	212	35.0	17.3
6	#17595.00	43.1 AV	68.2	-25.1	2.33 H	212	25.8	17.3
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	*5865.00	116.5 PK			1.31 V	221	114.6	1.9
2	*5865.00	107.7 AV			1.31 V	221	105.8	1.9
3	11730.00	56.5 PK	74.0	-17.5	2.22 V	222	45.1	11.4
4	11730.00	46.8 AV	54.0	-7.2	2.22 V	222	35.4	11.4
5	#17595.00	54.4 PK	88.2	-33.8	2.53 V	357	37.1	17.3
6	#17595.00	45.0 AV	68.2	-23.2	2.53 V	357	27.7	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 177 : 5.885 GHz
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	*5885.00	106.2 PK			1.29 H	216	104.6	1.6
2	*5885.00	96.9 AV			1.29 H	216	95.3	1.6
3	11770.00	51.2 PK	74.0	-22.8	1.41 H	262	39.8	11.4
4	11770.00	40.3 AV	54.0	-13.7	1.41 H	262	28.9	11.4
5	#17655.00	52.6 PK	88.2	-35.6	2.29 H	205	34.7	17.9
6	#17655.00	43.2 AV	68.2	-25.0	2.29 H	205	25.3	17.9
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	*5885.00	113.5 PK			1.38 V	222	111.9	1.6
2	*5885.00	104.3 AV			1.38 V	222	102.7	1.6
3	11770.00	53.9 PK	74.0	-20.1	2.28 V	227	42.5	11.4
4	11770.00	44.2 AV	54.0	-9.8	2.28 V	227	32.8	11.4
5	#17655.00	54.7 PK	88.2	-33.5	2.56 V	360	36.8	17.9
6	#17655.00	45.0 AV	68.2	-23.2	2.56 V	360	27.1	17.9

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 (HE40)	Channel	CH 167 : 5.835 GHz
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	*5835.00	107.4 PK			1.35 H	215	105.6	1.8
2	*5835.00	97.7 AV			1.35 H	215	95.9	1.8
3	11670.00	52.9 PK	74.0	-21.1	1.44 H	264	41.6	11.3
4	11670.00	42.2 AV	54.0	-11.8	1.44 H	264	30.9	11.3
5	#17505.00	52.4 PK	88.2	-35.8	2.31 H	193	35.7	16.7
6	#17505.00	43.1 AV	68.2	-25.1	2.31 H	193	26.4	16.7
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	*5835.00	114.6 PK			1.39 V	225	112.8	1.8
2	*5835.00	104.1 AV			1.39 V	225	102.3	1.8
3	11670.00	56.7 PK	74.0	-17.3	2.24 V	224	45.4	11.3
4	11670.00	47.2 AV	54.0	-6.8	2.24 V	224	35.9	11.3
5	#17505.00	53.9 PK	88.2	-34.3	2.51 V	347	37.2	16.7
6	#17505.00	45.0 AV	68.2	-23.2	2.51 V	347	28.3	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 175 : 5.875 GHz
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	*5875.00	105.7 PK			1.39 H	211	104.0	1.7
2	*5875.00	95.8 AV			1.39 H	211	94.1	1.7
3	11750.00	52.9 PK	74.0	-21.1	1.36 H	257	41.5	11.4
4	11750.00	42.1 AV	54.0	-11.9	1.36 H	257	30.7	11.4
5	#17625.00	52.1 PK	88.2	-36.1	2.36 H	194	34.5	17.6
6	#17625.00	43.0 AV	68.2	-25.2	2.36 H	194	25.4	17.6
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	*5875.00	113.7 PK			1.38 V	224	112.0	1.7
2	*5875.00	102.5 AV			1.38 V	224	100.8	1.7
3	11750.00	55.5 PK	74.0	-18.5	2.31 V	214	44.1	11.4
4	11750.00	45.2 AV	54.0	-8.8	2.31 V	214	33.8	11.4
5	#17625.00	54.4 PK	88.2	-33.8	2.54 V	356	36.8	17.6
6	#17625.00	44.5 AV	68.2	-23.7	2.54 V	356	26.9	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 171 : 5.855 GHz
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	*5855.00	103.1 PK			1.34 H	203	101.2	1.9
2	*5855.00	92.7 AV			1.34 H	203	90.8	1.9
3	11710.00	50.9 PK	74.0	-23.1	1.38 H	265	39.5	11.4
4	11710.00	40.2 AV	54.0	-13.8	1.38 H	265	28.8	11.4
5	#17565.00	52.9 PK	88.2	-35.3	2.24 H	218	35.9	17.0
6	#17565.00	43.3 AV	68.2	-24.9	2.24 H	218	26.3	17.0
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	*5855.00	110.4 PK			1.40 V	225	108.5	1.9
2	*5855.00	100.6 AV			1.40 V	225	98.7	1.9
3	11710.00	54.2 PK	74.0	-19.8	2.26 V	216	42.8	11.4
4	11710.00	44.5 AV	54.0	-9.5	2.26 V	216	33.1	11.4
5	#17565.00	54.6 PK	88.2	-33.6	2.60 V	333	37.6	17.0
6	#17565.00	44.9 AV	68.2	-23.3	2.60 V	333	27.9	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 (HE160)	Channel	CH 163 : 5.815 GHz
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	*5815.00	94.3 PK			1.30 H	109	92.6	1.7
2	*5815.00	84.4 AV			1.30 H	109	82.7	1.7
3	11630.00	51.3 PK	74.0	-22.7	1.43 H	252	40.1	11.2
4	11630.00	40.6 AV	54.0	-13.4	1.43 H	252	29.4	11.2
5	#17445.00	52.1 PK	88.2	-36.1	2.28 H	233	35.9	16.2
6	#17445.00	42.1 AV	68.2	-26.1	2.28 H	233	25.9	16.2
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	*5815.00	100.6 PK			1.35 V	136	98.9	1.7
2	*5815.00	90.4 AV			1.35 V	136	88.7	1.7
3	11630.00	53.1 PK	74.0	-20.9	2.21 V	200	41.9	11.2
4	11630.00	43.1 AV	54.0	-10.9	2.21 V	200	31.9	11.2
5	#17445.00	52.8 PK	88.2	-35.4	2.64 V	347	36.6	16.2
6	#17445.00	42.3 AV	68.2	-25.9	2.64 V	347	26.1	16.2

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 (RU26)	Channel	CH 177 : 5.885 GHz
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	*5885.00	103.2 PK			1.44 H	247	101.6	1.6
2	*5885.00	94.2 AV			1.44 H	247	92.6	1.6
3	11770.00	47.8 PK	74.0	-26.2	1.40 H	264	36.4	11.4
4	11770.00	37.8 AV	54.0	-16.2	1.40 H	264	26.4	11.4
5	#17655.00	51.8 PK	88.2	-36.4	2.27 H	242	33.9	17.9
6	#17655.00	41.8 AV	68.2	-26.4	2.27 H	242	23.9	17.9
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	*5885.00	111.8 PK			1.50 V	195	110.2	1.6
2	*5885.00	101.7 AV			1.50 V	195	100.1	1.6
3	11770.00	53.1 PK	74.0	-20.9	2.30 V	228	41.7	11.4
4	11770.00	41.4 AV	54.0	-12.6	2.30 V	228	30.0	11.4
5	#17655.00	53.2 PK	88.2	-35.0	2.70 V	351	35.3	17.9
6	#17655.00	42.4 AV	68.2	-25.8	2.70 V	351	24.5	17.9

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 (RU52)	Channel	CH 177 : 5.885 GHz
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	*5885.00	103.6 PK			1.48 H	243	98.5	5.1
2	*5885.00	94.4 AV			1.48 H	243	89.3	5.1
3	11770.00	49.8 PK	74.0	-24.2	1.46 H	260	35.5	14.3
4	11770.00	39.2 AV	54.0	-14.8	1.46 H	260	24.9	14.3
5	#17655.00	52.5 PK	88.2	-35.7	2.34 H	242	32.9	19.6
6	#17655.00	42.2 AV	68.2	-26.0	2.34 H	242	22.6	19.6
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	*5885.00	111.5 PK			1.49 V	192	109.9	1.6
2	*5885.00	101.6 AV			1.49 V	192	100.0	1.6
3	11770.00	56.1 PK	74.0	-17.9	2.28 V	230	44.7	11.4
4	11770.00	43.2 AV	54.0	-10.8	2.28 V	230	31.8	11.4
5	#17655.00	53.3 PK	88.2	-34.9	2.63 V	332	35.4	17.9
6	#17655.00	42.7 AV	68.2	-25.5	2.63 V	332	24.8	17.9

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 (RU106)	Channel	CH 177 : 5.885 GHz
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	*5885.00	101.7 PK			1.46 H	241	100.1	1.6
2	*5885.00	92.5 AV			1.46 H	241	90.9	1.6
3	11770.00	50.5 PK	74.0	-23.5	1.46 H	259	39.1	11.4
4	11770.00	39.8 AV	54.0	-14.2	1.46 H	259	28.4	11.4
5	#17655.00	51.9 PK	88.2	-36.3	2.31 H	249	34.0	17.9
6	#17655.00	42.0 AV	68.2	-26.2	2.31 H	249	24.1	17.9
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	*5885.00	109.2 PK			1.52 V	197	107.6	1.6
2	*5885.00	99.8 AV			1.52 V	197	98.2	1.6
3	11770.00	53.5 PK	74.0	-20.5	2.26 V	216	42.1	11.4
4	11770.00	42.8 AV	54.0	-11.2	2.26 V	216	31.4	11.4
5	#17655.00	53.3 PK	88.2	-34.9	2.64 V	351	35.4	17.9
6	#17655.00	42.7 AV	68.2	-25.5	2.64 V	351	24.8	17.9

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.

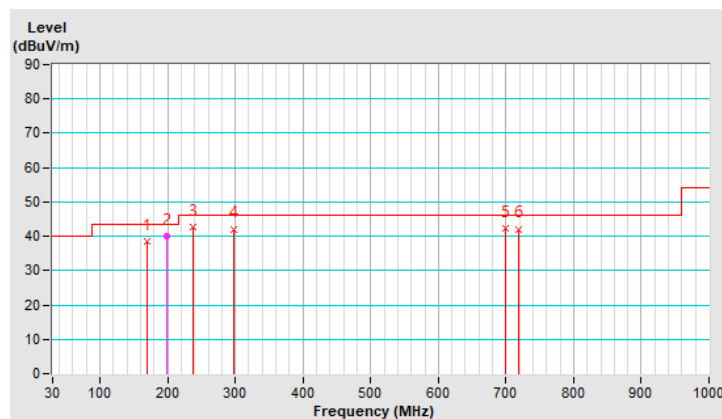
Below 1GHz Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
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	168.79	38.4 QP	43.5	-5.1	1.00 H	158	50.8	-12.4
2	198.37	40.1 QP	43.5	-3.4	2.00 H	97	55.1	-15.0
3	238.17	42.6 QP	46.0	-3.4	1.50 H	207	55.9	-13.3
4	297.97	42.1 QP	46.0	-3.9	1.50 H	247	53.0	-10.9
5	700.05	42.2 QP	46.0	-3.8	2.00 H	225	42.8	-0.6
6	717.88	42.1 QP	46.0	-3.9	1.00 H	205	42.5	-0.4

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 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.

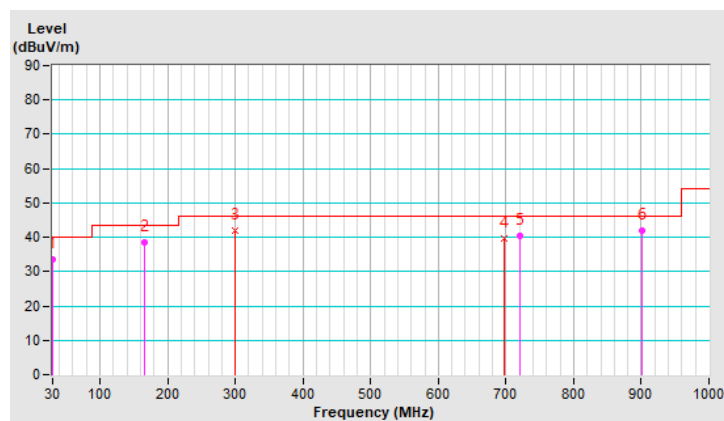


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	30.56	33.5 QP	40.0	-6.5	1.00 V	295	47.2	-13.7
2	165.70	38.6 QP	43.5	-4.9	2.00 V	322	50.9	-12.3
3	299.23	41.8 QP	46.0	-4.2	1.50 V	285	52.6	-10.8
4	697.49	39.8 QP	46.0	-6.2	1.50 V	222	40.5	-0.7
5	721.23	40.5 QP	46.0	-5.5	1.50 V	247	40.8	-0.3
6	901.53	41.9 QP	46.0	-4.1	1.00 V	210	38.6	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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver R&S	ESCS 30	847124/029	2021/10/13	2022/10/12
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
LISN R & S	ESH3-Z5	835239/001	2021/3/26	2022/3/25
50 ohms Terminator	50	3	2021/10/27	2022/10/26
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note: 1. The test was performed in Conduction 1.

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

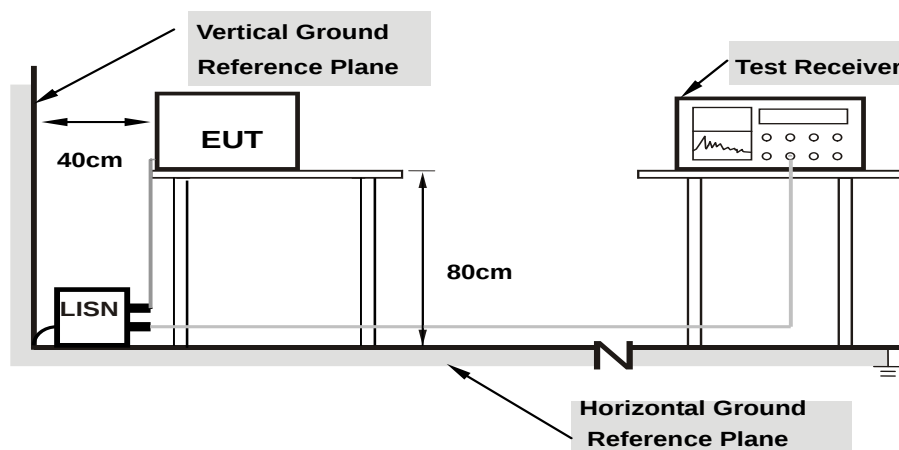
3. Tested Date: 2021/11/16

4.2.3 Test Procedure

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

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Test Setup



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

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

4.2.5 EUT Operating Condition

Same as 4.1.5.

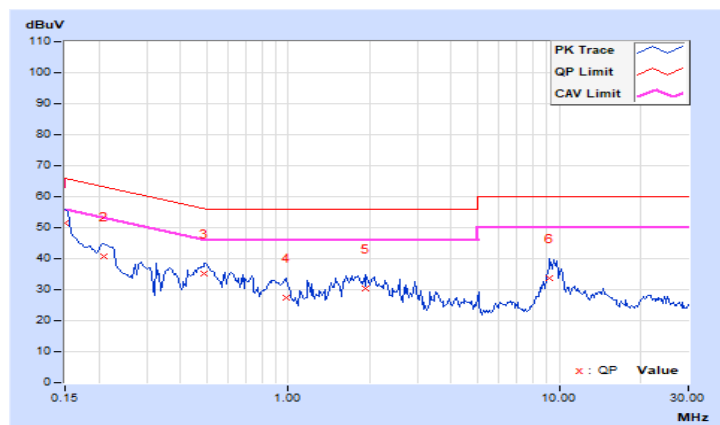
4.2.6 Test Results

RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.05	41.46	31.05	51.51	41.10	66.00	56.00	-14.49	-14.90
2	0.20859	10.05	30.60	19.76	40.65	29.81	63.26	53.26	-22.61	-23.45
3	0.48984	10.07	25.04	14.79	35.11	24.86	56.17	46.17	-21.06	-21.31
4	0.98203	10.11	17.46	6.09	27.57	16.20	56.00	46.00	-28.43	-29.80
5	1.93750	10.16	20.33	11.27	30.49	21.43	56.00	46.00	-25.51	-24.57
6	9.25781	10.57	22.95	17.74	33.52	28.31	60.00	50.00	-26.48	-21.69

Remarks:

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

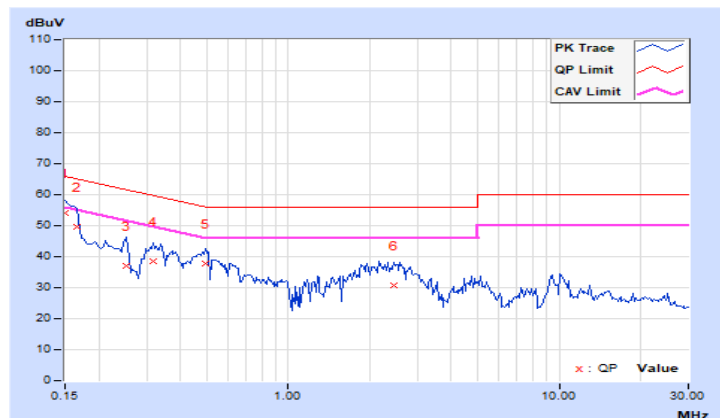


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.02	44.00	33.93	54.02	43.95	66.00	56.00	-11.98	-12.05
2	0.16562	10.02	39.58	28.85	49.60	38.87	65.18	55.18	-15.58	-16.31
3	0.25156	10.03	27.09	12.87	37.12	22.90	61.71	51.71	-24.59	-28.81
4	0.31797	10.04	28.44	17.47	38.48	27.51	59.76	49.76	-21.28	-22.25
5	0.49766	10.04	27.86	12.53	37.90	22.57	56.04	46.04	-18.14	-23.47
6	2.45703	10.15	20.72	11.87	30.87	22.02	56.00	46.00	-25.13	-23.98

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Device Category		Limit (Max Average Power)
☐	Indoor access point	EIRP 36 dBm
☐	Subordinate device	EIRP 36 dBm
☒	Client device	EIRP 30 dBm
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.		

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

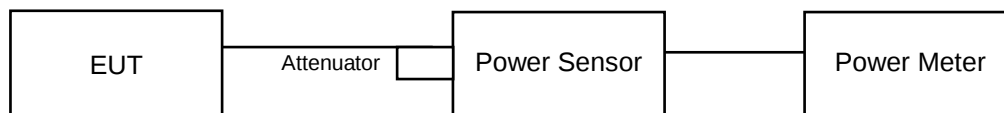
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

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

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

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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.

4.3.5 EUT Operating Condition

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

4.3.6 Test Result

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	13.93	14.23	51.202	17.09	4.92	158.855	22.01	30	Pass
173	5865	14.15	14.16	52.063	17.17	4.92	161.808	22.09	30	Pass
177	5885	14.08	14.15	51.587	17.13	4.92	160.325	22.05	30	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	14.38	14.72	57.064	17.56	4.92	177.011	22.48	30	Pass
173	5865	14.57	14.83	59.051	17.71	4.92	183.231	22.63	30	Pass
177	5885	14.45	14.67	57.17	17.57	4.92	177.419	22.49	30	Pass

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	16.63	16.95	95.571	19.80	4.92	296.483	24.72	30	Pass
175	5875	16.71	16.88	95.634	19.81	4.92	297.167	24.73	30	Pass

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	19.52	19.61	180.948	22.58	4.92	562.341	27.5	30	Pass

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	15.51	15.17	68.448	18.35	4.92	212.324	23.27	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	14.58	14.93	59.825	17.77	4.92	185.78	22.69	30	Pass
173	5865	14.78	15.05	62.05	17.93	4.92	192.752	22.85	30	Pass
177	5885	14.66	14.89	60.073	17.79	4.92	186.638	22.71	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	16.84	17.17	100.425	20.02	4.92	311.889	24.94	30	Pass
175	5875	16.91	17.09	100.259	20.01	4.92	311.172	24.93	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	19.72	19.85	190.361	22.80	4.92	591.562	27.72	30	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	15.72	15.41	72.079	18.58	4.92	223.872	23.5	30	Pass

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
177	5885	7.62	7.16	10.981	10.41	4.92	34.119	15.33	30	Pass

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
177	5885	10.96	10.83	24.58	13.91	4.92	76.384	18.83	30	Pass

802.11ax (RU106)

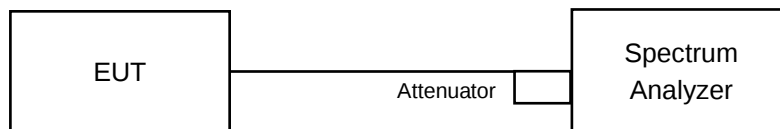
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
177	5885	12.41	12.16	33.862	15.30	4.92	105.196	20.22	30	Pass

4.4 6dB Bandwidth Measurement

4.4.1 Limits of Emission Bandwidth Measurement

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.4.5 EUT Operating Condition

Same as Item 4.3.5.

4.4.6 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
169	5845	16.31	16.37	0.5	Pass
173	5865	16.35	16.38	0.5	Pass
177	5885	16.34	16.38	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
169	5845	19.00	18.83	0.5	Pass
173	5865	18.95	18.81	0.5	Pass
177	5885	18.94	18.79	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
167	5835	35.76	35.24	0.5	Pass
175	5875	35.20	35.15	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
171	5855	75.48	74.10	0.5	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
163	5815	154.20	153.00	0.5	Pass

802.11ax (RU26)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
177	5885	2.12	2.12	0.5	Pass

802.11ax (RU52)

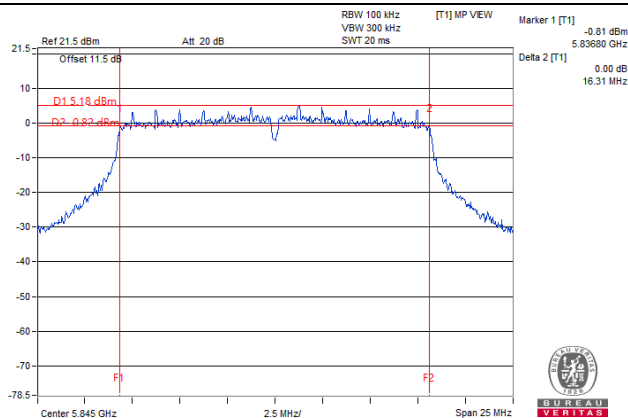
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
177	5885	15.77	17.08	0.5	Pass

802.11ax (RU106)

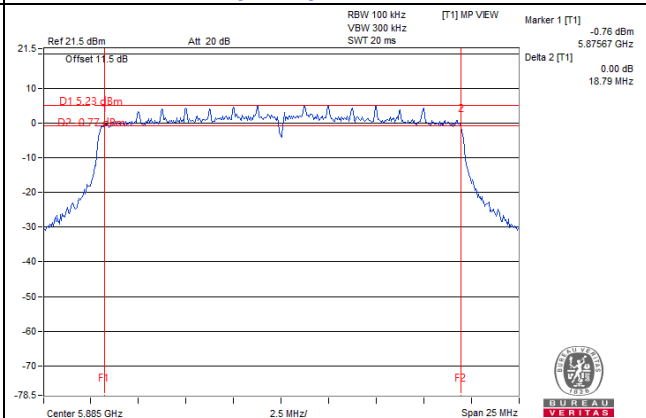
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
177	5885	17.17	17.17	0.5	Pass

Spectrum Plot of Worst Value

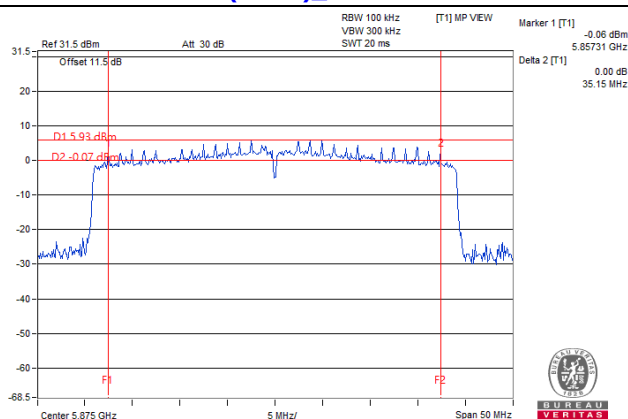
802.11a_Chain 0 / CH169



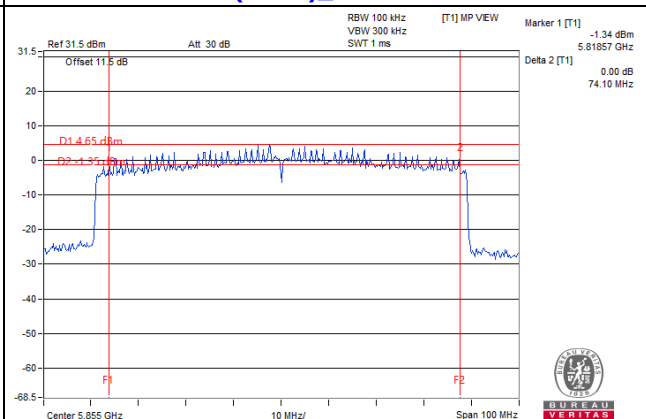
802.11ax (HE20)_Chain 1 / CH177



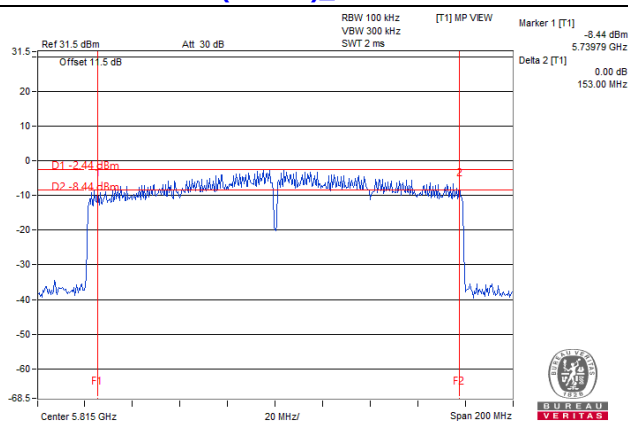
802.11ax (HE40)_Chain 1 / CH175



802.11ax (HE80)_Chain 1 / CH171

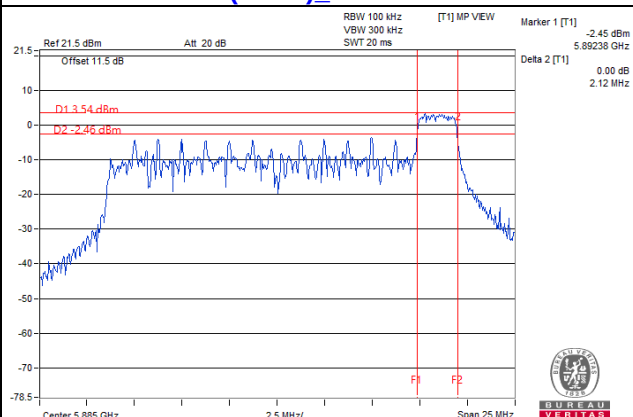


802.11ax (HE160)_Chain 1 / CH163

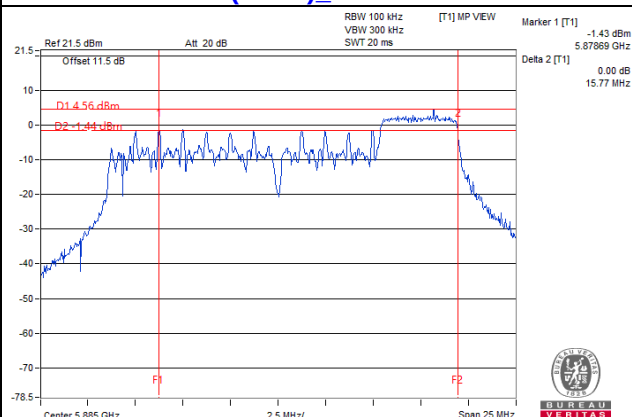


Spectrum Plot of Worst Value

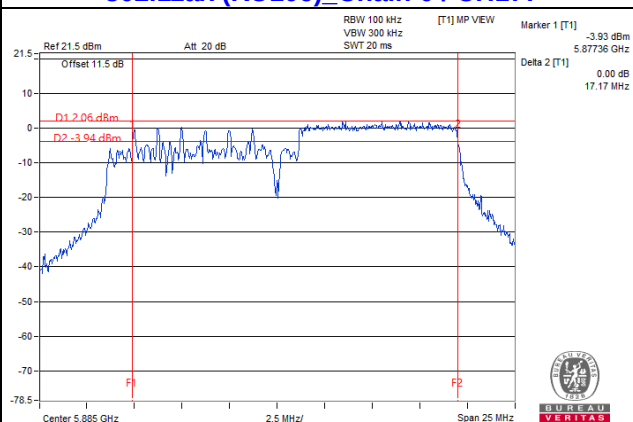
802.11ax (RU26)_Chain 1 / CH177



802.11ax (RU52)_Chain 0 / CH177



802.11ax (RU106)_Chain 0 / CH177

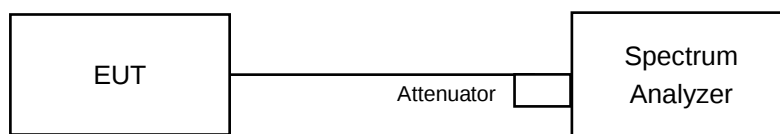


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Device Category		Limit
☐	Indoor access point	EIRP 20 dBm/MHz
☐	Subordinate device	EIRP 20 dBm/MHz
☒	Client device	EIRP 14 dBm/MHz
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.		

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

Method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
6. Scale the observed power level to an equivalent value in 1 MHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10 \log(1 \text{ MHz}/300 \text{ kHz}) = 5.23 \text{ dB}$
7. Record the max value and add $10 \log(1/\text{duty cycle})$.

4.5.5 EUT Operating Condition

Same as Item 4.3.5.

4.5.6 Test Results

Directional Gain Calculation

The directional gain = 4.92 dBi + 10log(2) = 7.93 dBi

The highest directional gain used for EIRP calculation.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
169	5845	-2.63	-2.51	0.44	0.26	5.93	7.93	13.86	14	Pass
173	5865	-2.31	-2.86	0.43	0.26	5.92	7.93	13.85	14	Pass
177	5885	-2.01	-2.97	0.55	0.26	6.04	7.93	13.97	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
169	5845	-2.67	-2.66	0.35	0.36	5.94	7.93	13.87	14	Pass
173	5865	-2.41	-3.14	0.25	0.36	5.84	7.93	13.77	14	Pass
177	5885	-2.62	-3.37	0.03	0.36	5.62	7.93	13.55	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
167	5835	-3.02	-3.15	-0.07	0.51	5.67	7.93	13.6	14	Pass
175	5875	-2.74	-3.39	-0.04	0.51	5.70	7.93	13.63	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
171	5855	-4.06	-4.21	-1.12	0.98	5.09	7.93	13.02	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
163	5815	-11.44	-11.57	-8.49	1.75	-1.51	7.93	6.42	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
177	5885	-3.42	-3.75	-0.57	0.52	5.18	7.93	13.11	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
177	5885	-2.92	-3.44	-0.16	0.55	5.62	7.93	13.55	14	Pass

Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

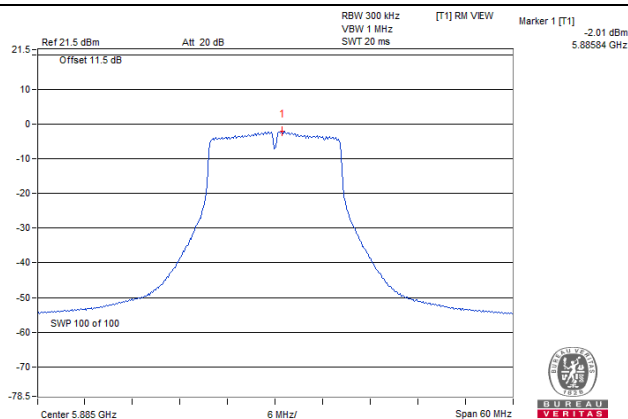
802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1							
177	5885	-2.92	-3.44	-0.16	0.55	5.62	7.93	13.55	14	Pass

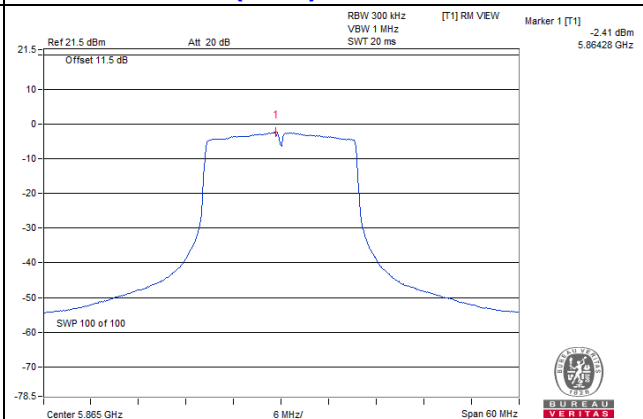
Note: Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

Spectrum Plot of Worst Value

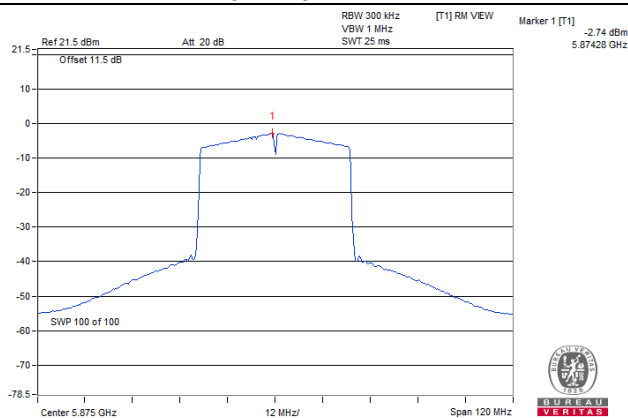
802.11a_Chain 0 / CH177



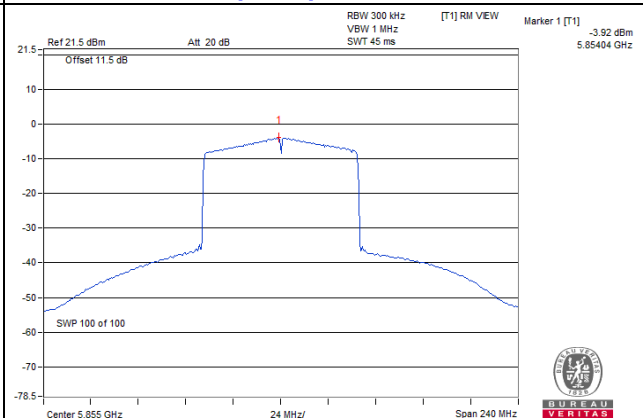
802.11ax (HE20)_Chain 0 / CH173



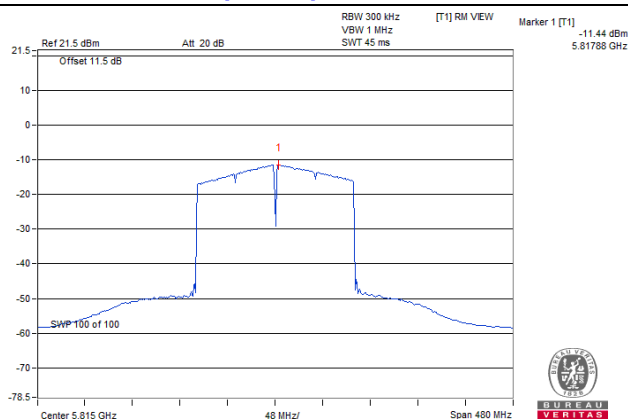
802.11ax (HE40)_Chain 0 / CH175



802.11ax (HE80)_Chain 0 / CH171

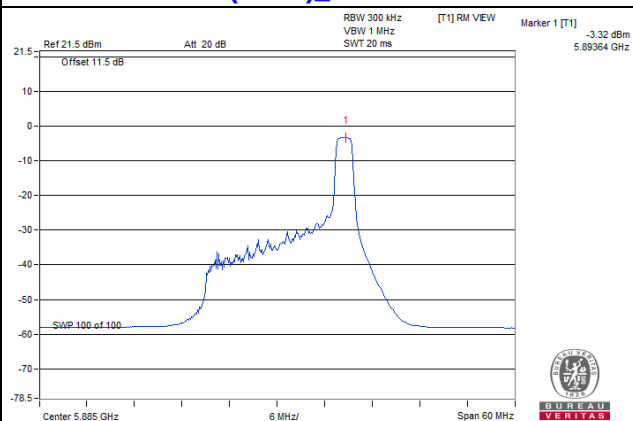


802.11ax (HE160)_Chain 0 / CH163

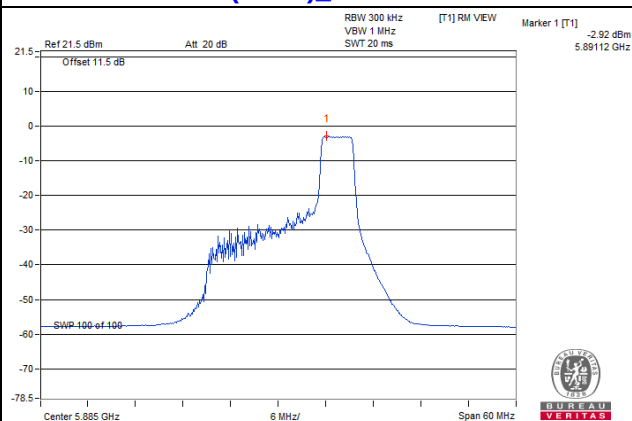


Spectrum Plot of Worst Value

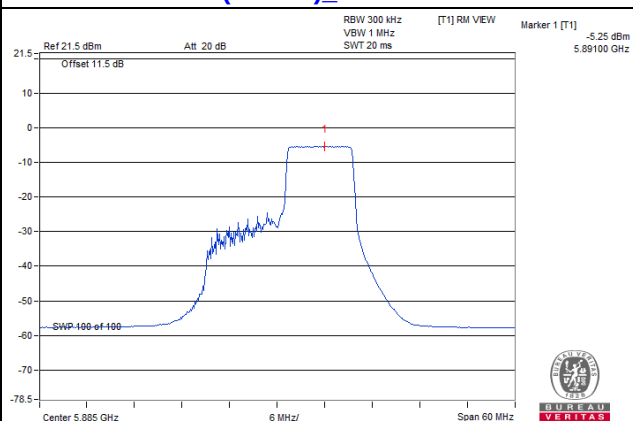
802.11ax (RU26)_Chain 0 / CH177



802.11ax (RU52)_Chain 0 / CH177



802.11ax (RU106)_Chain 0 / CH177

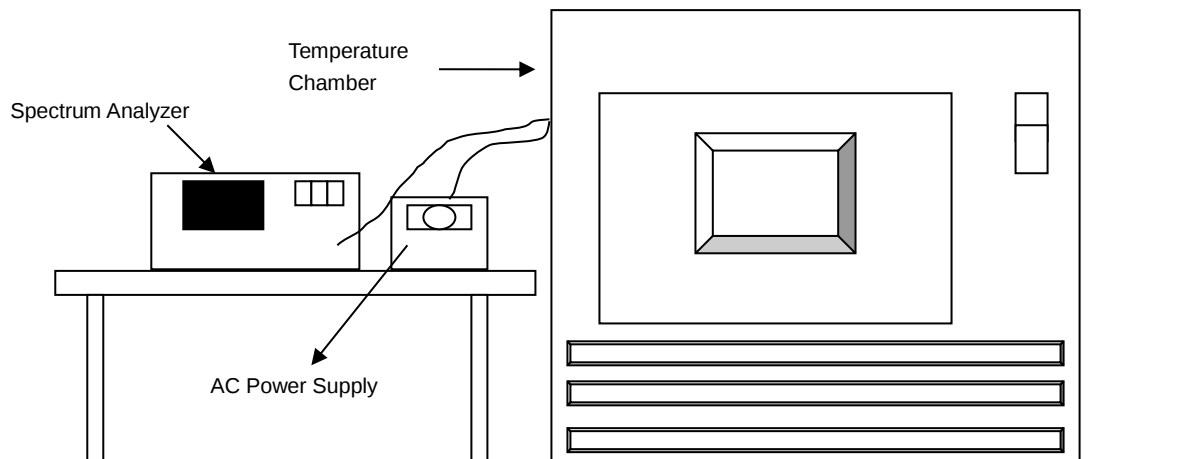


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 EUT Operating Condition

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

4.6.6 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5865MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
70	120	5865.0306	Pass	5865.0294	Pass	5865.03	Pass	5865.0299	Pass
60	120	5865.027	Pass	5865.0295	Pass	5865.0304	Pass	5865.0258	Pass
50	120	5864.9962	Pass	5865.0011	Pass	5864.9976	Pass	5864.9991	Pass
40	120	5865.0135	Pass	5865.0185	Pass	5865.0186	Pass	5865.0166	Pass
30	120	5864.9785	Pass	5864.9742	Pass	5864.9753	Pass	5864.9756	Pass
20	120	5864.9808	Pass	5864.983	Pass	5864.9812	Pass	5864.9836	Pass
10	120	5864.9821	Pass	5864.9845	Pass	5864.9851	Pass	5864.9847	Pass
0	120	5864.9932	Pass	5864.9922	Pass	5864.9966	Pass	5864.9932	Pass
-10	120	5865.0055	Pass	5865.003	Pass	5865.0047	Pass	5865.0037	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5865MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5864.9904	Pass	5864.9918	Pass	5864.9915	Pass	5864.9916	Pass
	120	5864.9808	Pass	5864.983	Pass	5864.9812	Pass	5864.9836	Pass
	102	5864.9818	Pass	5864.9802	Pass	5864.9793	Pass	5864.9766	Pass

4.7 Operational Restrictions for U-NII 4 Devices

4.7.1 Limits of Operational Restrictions for U-NII 4 Devices

☐ (1) *Indoor Access Point.*

An access point that operates in the 5.850-5.895 GHz, is supplied power from a wired connection, has an integrated antenna, is not battery powered, and does not have a weatherized enclosure. Indoor access point devices must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only.

☐ (2) *Subordinate Device.*

A subordinate device that operates in the 5.850-5.895 GHz band under the control of an Indoor Access Point, is supplied power from a wired connection, has an integrated antenna, is not battery powered, does not have a weatherized enclosure, and does not have a direct connection to the internet. Subordinate devices must not be used to connect devices between separate buildings or structures. Subordinate devices must be authorized under certification procedures in part 2 of this chapter. Modules may not be certified as subordinate devices.

☒ (3) *Client Device.*

A client device whose transmissions are generally under the control of an access point and is not capable of initiating a network

4.7.2 Test Setup

N/A

4.7.3 Test Instruments

N/A

4.7.4 Test Procedure

N/A.

4.7.5 Test Results

Device is a client device, all restrictions are meet the §15.403 requirements. Please refer to the Attestation letter exhibit supplied within this application.

5 Pictures of Test Arrangements

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

Annex A - Band-Edge Measurement

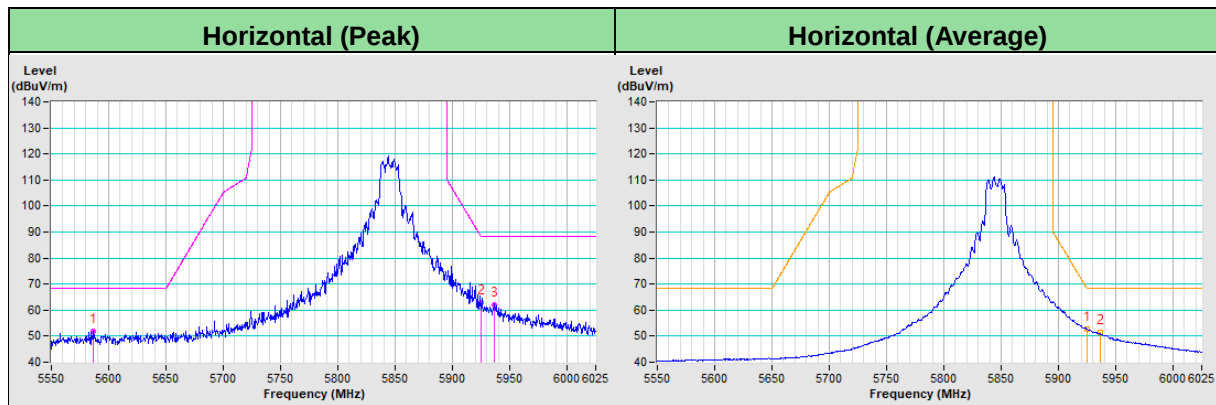
Antenna Set 1 (Model: RFMTA340718EMLB302)

RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	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)
PK.1	#5586.71	51.9 PK	68.2	-16.3	1.93 H	85	50.4	1.5
PK.2	#5925.07	62.8 PK	88.2	-25.4	1.93 H	85	60.8	2.0
PK.3	#5936.21	62.2 PK	88.2	-26.0	1.93 H	85	60.2	2.0
AV.1	#5925.07	52.6 AV	68.2	-15.6	1.93 H	85	50.6	2.0
AV.2	#5936.21	51.4 AV	68.2	-16.8	1.93 H	85	49.4	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. " # ": The radiated frequency is out of the restricted band.

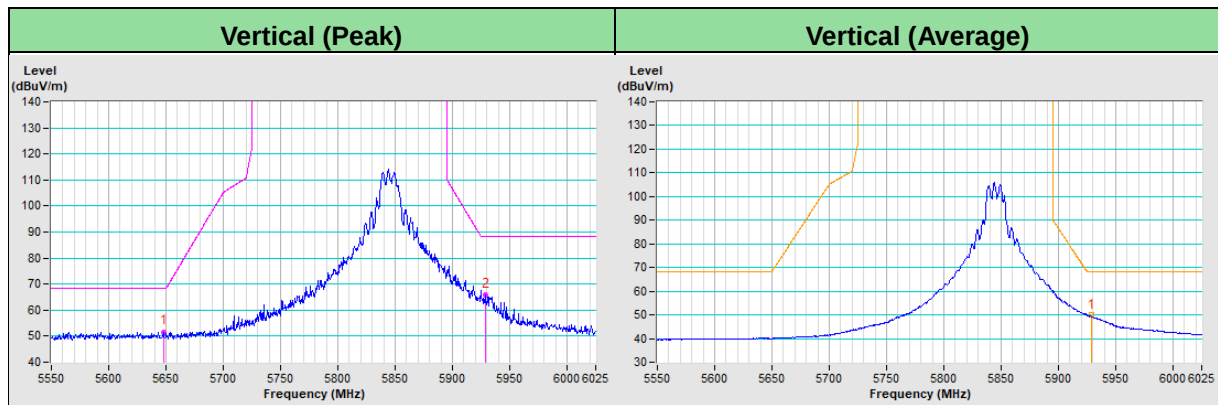


RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5647.76	51.6 PK	68.2	-16.6	1.78 V	35	50.0	1.6
PK.2	#5928.52	65.7 PK	88.2	-22.5	1.78 V	35	63.7	2.0
AV.1	#5928.52	49.9 AV	68.2	-18.3	1.78 V	35	47.9	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. " # ": The radiated frequency is out of the restricted band.

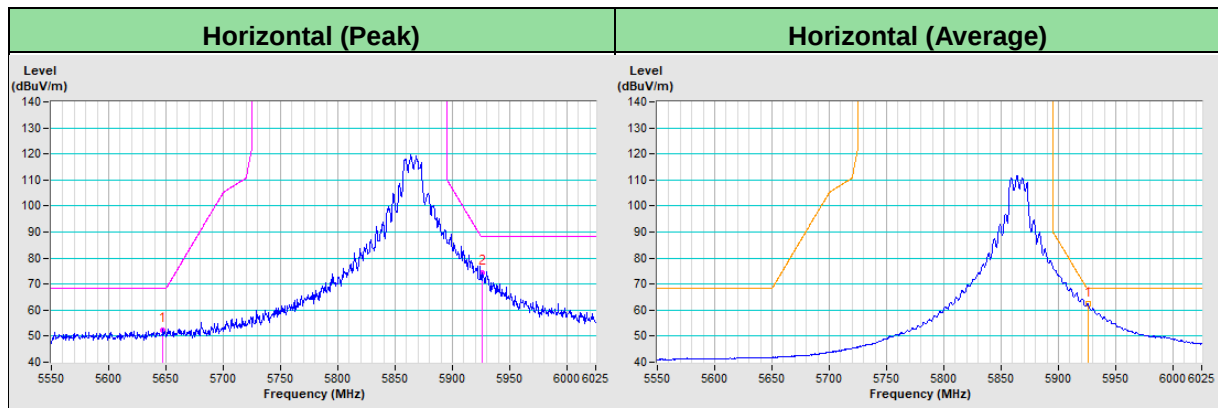


RF Mode	TX 802.11a	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5647.14	52.5 PK	68.2	-15.7	2.03 H	89	50.9	1.6
PK.2	#5925.71	74.4 PK	88.2	-13.8	2.03 H	89	72.4	2.0
AV.1	#5925.71	62.3 AV	68.2	-5.9	2.03 H	89	60.3	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. " # ": The radiated frequency is out of the restricted band.

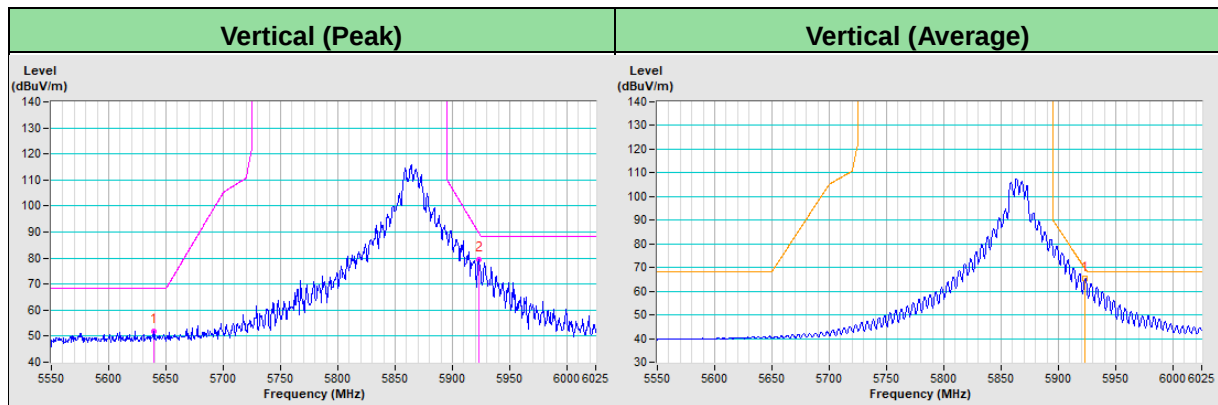


RF Mode	TX 802.11a	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5639.13	51.8 PK	68.2	-16.4	1.50 V	40	50.2	1.6
PK.2	#5923.17	79.4 PK	89.5	-10.1	1.50 V	40	77.4	2.0
AV.1	#5923.17	65.4 AV	69.5	-4.1	1.50 V	40	63.4	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. " # ": The radiated frequency is out of the restricted band.

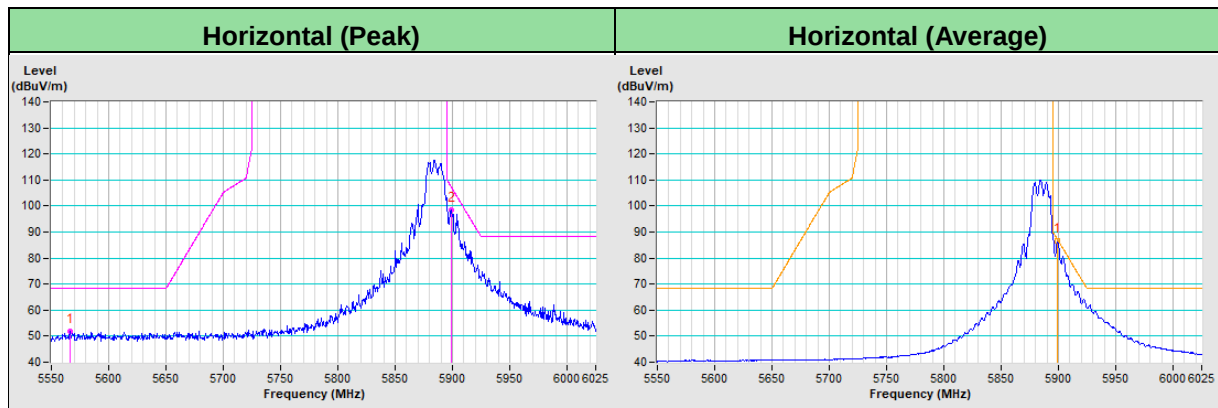


RF Mode	TX 802.11a	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5566.13	52.0 PK	68.2	-16.2	2.00 H	86	50.6	1.4
PK.2	#5899.15	98.5 PK	107.2	-8.7	2.00 H	86	96.6	1.9
AV.1	#5899.15	86.8 AV	87.2	-0.4	2.00 H	86	84.9	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. " # ": The radiated frequency is out of the restricted band.

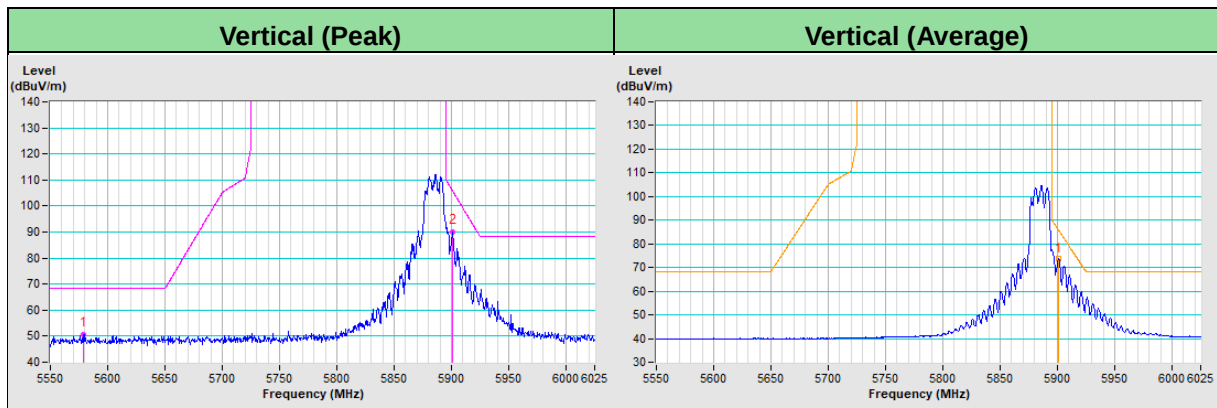


RF Mode	TX 802.11a	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5578.44	50.6 PK	68.2	-17.6	1.52 V	42	49.2	1.4
PK.2	#5900.93	90.0 PK	105.8	-15.8	1.52 V	42	88.1	1.9
AV.1	#5900.93	73.7 AV	85.8	-12.1	1.52 V	42	71.8	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. " # ": The radiated frequency is out of the restricted band.

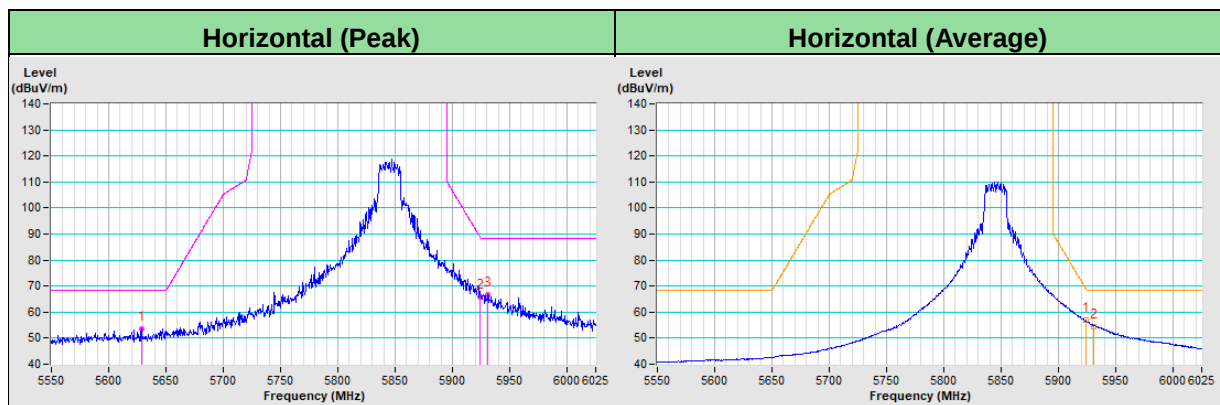


RF Mode	TX 802.11ax (HE20)	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5628.58	53.6 PK	68.2	-14.6	1.96 H	87	52.0	1.6
PK.2	#5924.06	66.0 PK	88.9	-22.9	1.96 H	87	64.0	2.0
PK.3	#5930.69	66.9 PK	88.2	-21.3	1.96 H	87	64.9	2.0
AV.1	#5924.06	56.9 AV	68.9	-12.0	1.96 H	87	54.9	2.0
AV.2	#5930.69	54.5 AV	68.2	-13.7	1.96 H	87	52.5	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. " # ": The radiated frequency is out of the restricted band.

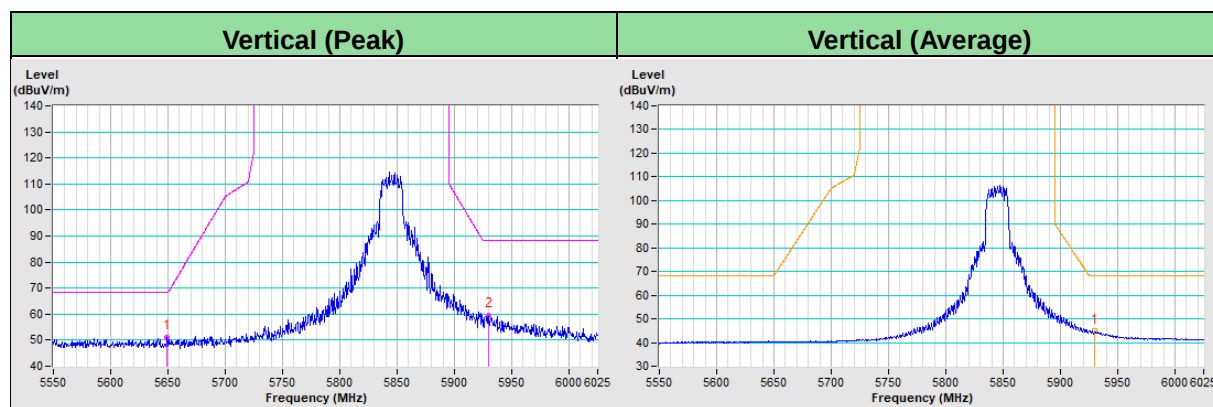


RF Mode	TX 802.11ax (HE20)	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5649.30	51.2 PK	68.2	-17.0	1.06 V	42	49.6	1.6
PK.2	#5929.73	59.6 PK	88.2	-28.6	1.06 V	42	57.6	2.0
AV.1	#5929.73	45.0 AV	68.2	-23.2	1.06 V	42	43.0	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. " # ": The radiated frequency is out of the restricted band.

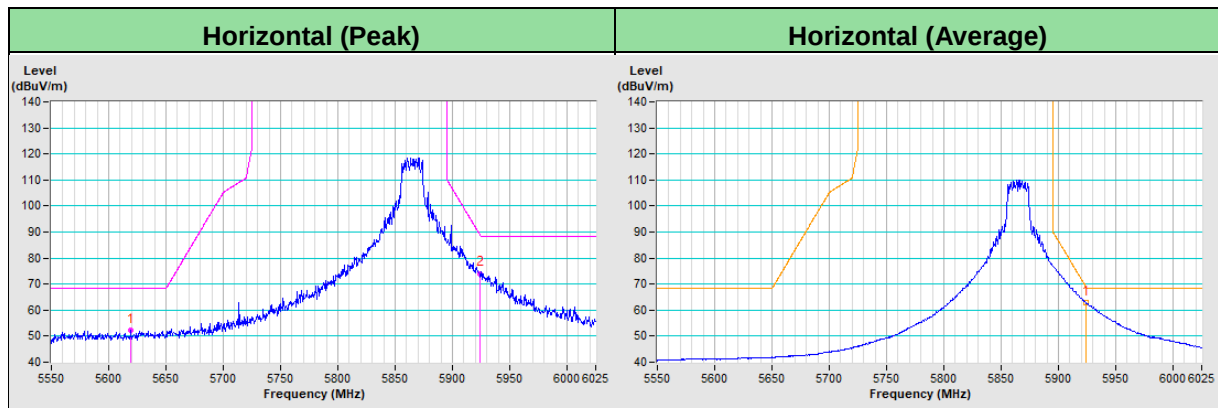


RF Mode	TX 802.11ax (HE20)	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5619.05	52.1 PK	68.2	-16.1	2.00 H	87	50.6	1.5
PK.2	#5924.02	74.1 PK	88.9	-14.8	2.00 H	87	72.1	2.0
AV.1	#5924.02	62.7 AV	68.9	-6.2	2.00 H	87	60.7	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. " # ": The radiated frequency is out of the restricted band.

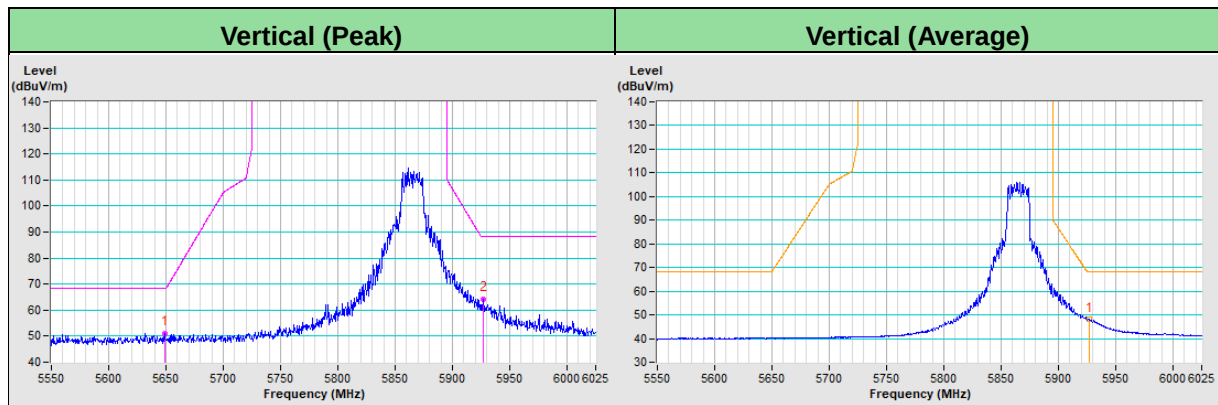


RF Mode	TX 802.11ax (HE20)	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5649.18	51.2 PK	68.2	-17.0	1.10 V	45	49.6	1.6
PK.2	#5926.90	64.2 PK	88.2	-24.0	1.10 V	45	62.2	2.0
AV.1	#5926.90	48.2 AV	68.2	-20.0	1.10 V	45	46.2	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. " # ": The radiated frequency is out of the restricted band.

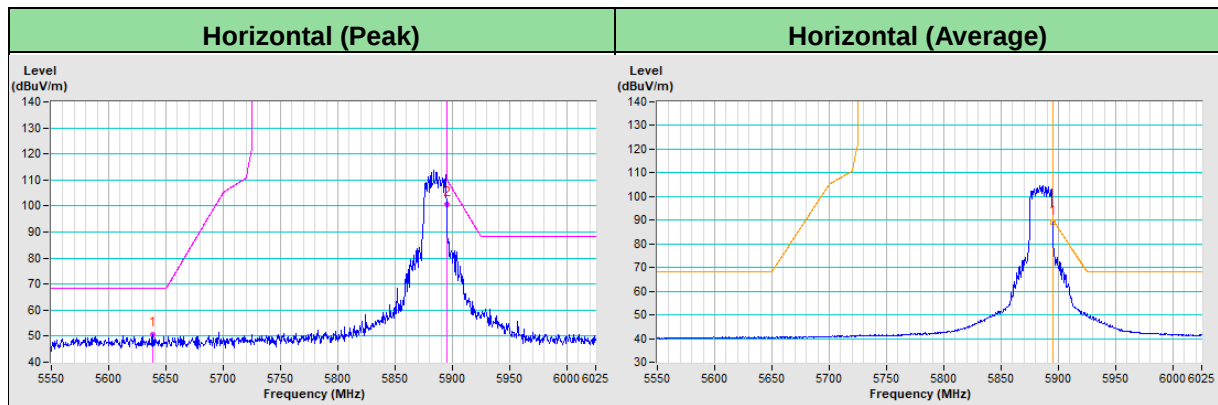


RF Mode	TX 802.11ax (HE20)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5638.10	50.7 PK	68.2	-17.5	1.93 H	96	49.1	1.6
PK.2	#5895.00	100.6 PK	110.2	-9.6	1.93 H	96	98.7	1.9
AV.1	#5895.00	89.3 AV	90.2	-0.9	1.93 H	96	87.4	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. " # ": The radiated frequency is out of the restricted band.

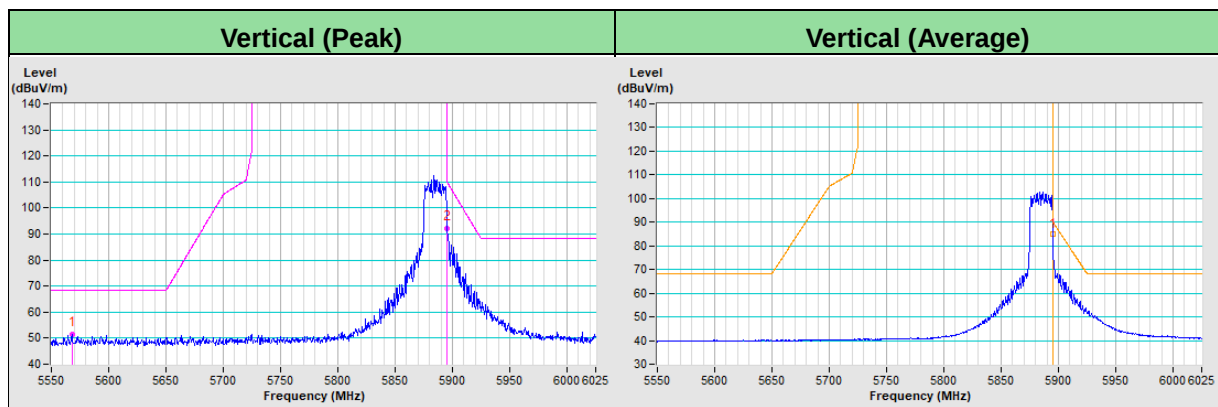


RF Mode	TX 802.11ax (HE20)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5567.92	51.6 PK	68.2	-16.6	1.02 V	39	50.2	1.4
PK.2	#5895.10	92.0 PK	110.1	-18.1	1.02 V	39	90.1	1.9
AV.1	#5895.10	84.8 AV	90.1	-5.3	1.02 V	39	82.9	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. " # ": The radiated frequency is out of the restricted band.

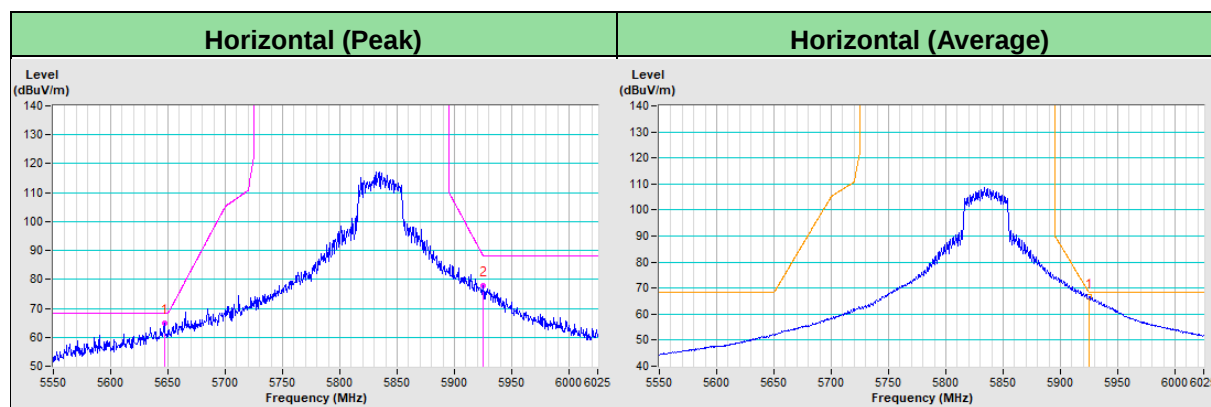


RF Mode	TX 802.11ax (HE40)	Channel	CH 167 : 5.835 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5647.01	64.7 PK	68.2	-3.5	2.02 H	94	63.1	1.6
PK.2	#5924.60	77.7 PK	88.5	-10.8	2.02 H	94	75.7	2.0
AV.1	#5924.60	66.9 AV	68.5	-1.6	2.02 H	94	64.9	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. " # ": The radiated frequency is out of the restricted band.

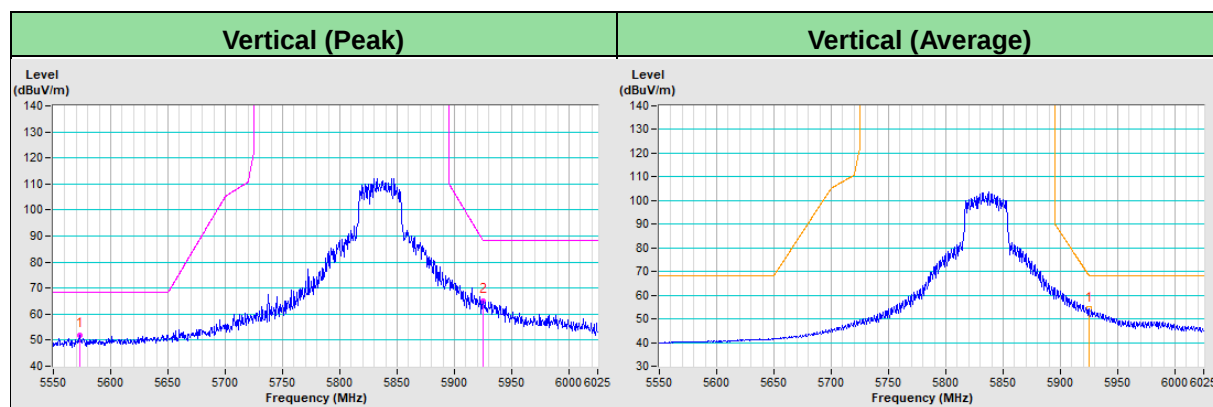


RF Mode	TX 802.11ax (HE40)	Channel	CH 167 : 5.835 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5572.76	52.0 PK	68.2	-16.2	1.02 V	46	50.6	1.4
PK.2	#5925.31	65.1 PK	88.2	-23.1	1.02 V	46	63.1	2.0
AV.1	#5925.31	54.2 AV	68.2	-14.0	1.02 V	46	52.2	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. " # ": The radiated frequency is out of the restricted band.

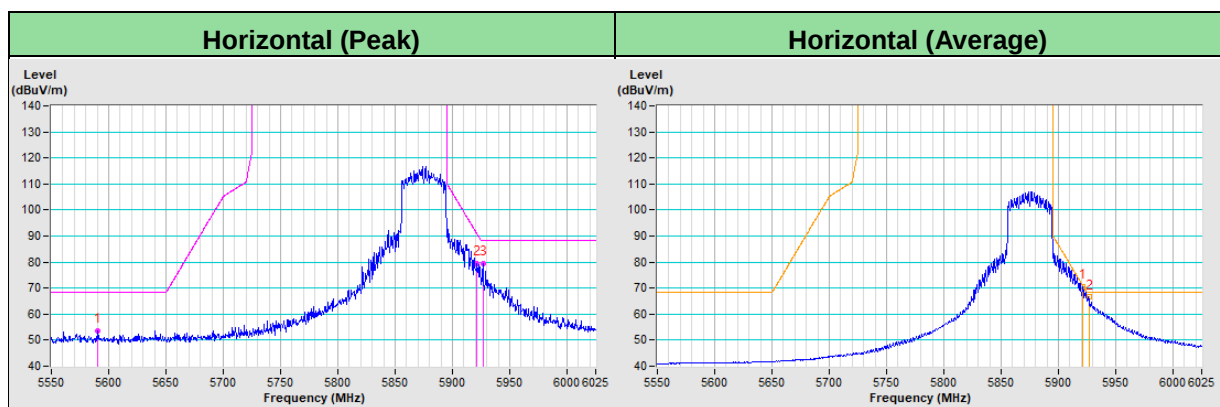


RF Mode	TX 802.11ax (HE40)	Channel	CH 175 : 5.875 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5590.72	53.6 PK	68.2	-14.6	2.00 H	93	52.1	1.5
PK.2	#5921.40	79.3 PK	90.8	-11.5	2.00 H	93	77.3	2.0
PK.3	#5926.66	79.4 PK	88.2	-8.8	2.00 H	93	77.4	2.0
AV.1	#5921.40	70.6 AV	70.8	-0.2	2.00 H	93	68.6	2.0
AV.2	#5926.66	66.5 AV	68.2	-1.7	2.00 H	93	64.5	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. " # " : The radiated frequency is out of the restricted band.

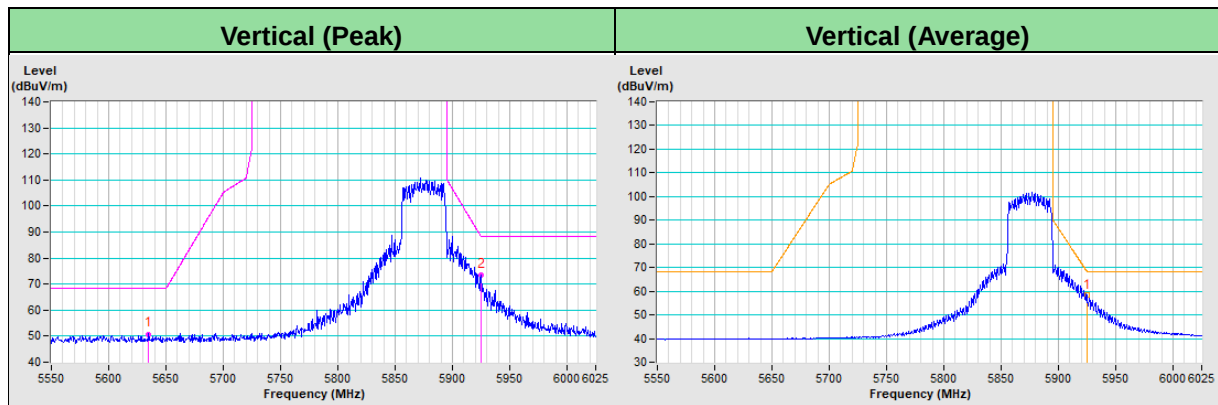


RF Mode	TX 802.11ax (HE40)	Channel	CH 175 : 5.875 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5634.94	50.8 PK	68.2	-17.4	1.06 V	54	49.2	1.6
PK.2	#5925.00	73.3 PK	88.2	-14.9	1.06 V	54	71.3	2.0
AV.1	#5925.00	58.3 AV	68.2	-9.9	1.06 V	54	56.3	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. " # ": The radiated frequency is out of the restricted band.

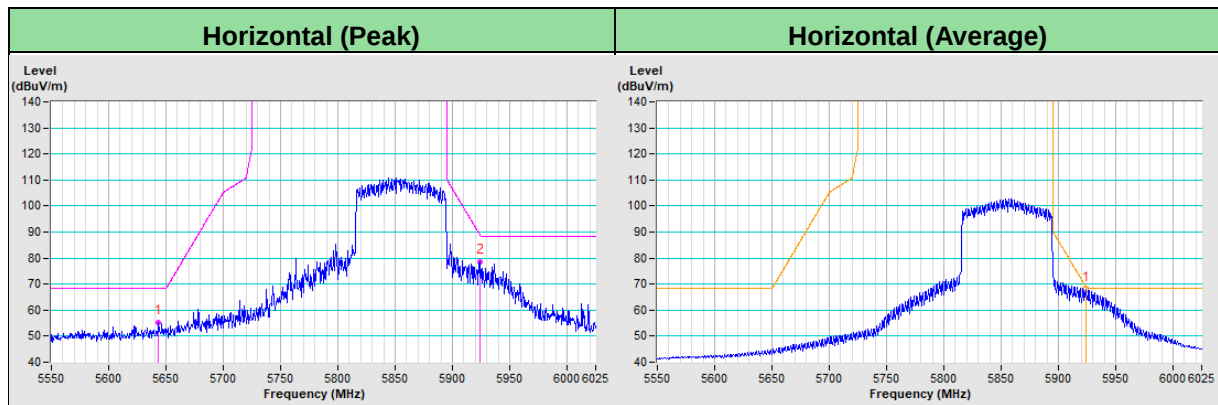


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5643.57	55.2 PK	68.2	-13.0	2.04 H	92	53.6	1.6
PK.2	#5923.90	78.5 PK	89.0	-10.5	2.04 H	92	76.5	2.0
AV.1	#5923.90	67.9 AV	69.0	-1.1	2.04 H	92	65.9	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. " # ": The radiated frequency is out of the restricted band.

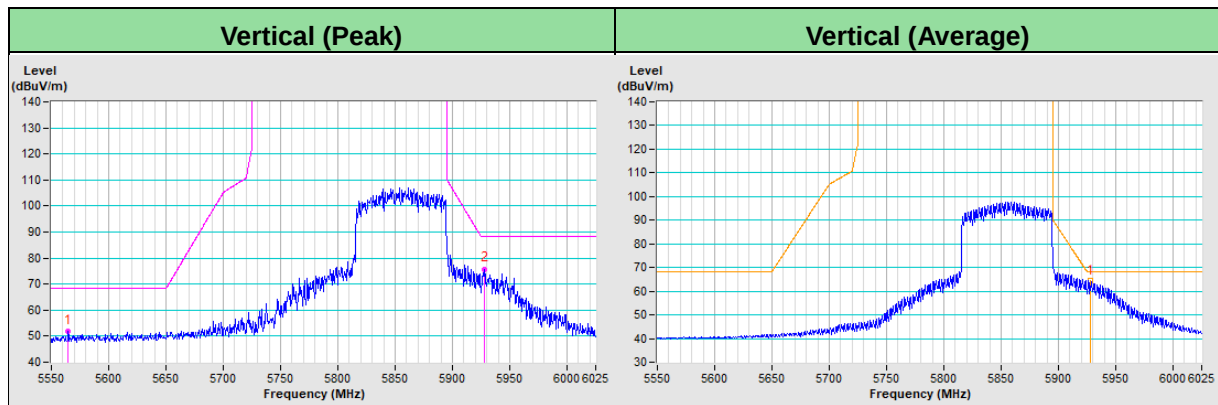


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5564.55	51.7 PK	68.2	-16.5	1.11 V	48	50.3	1.4
PK.2	#5927.58	75.8 PK	88.2	-12.4	1.11 V	48	73.8	2.0
AV.1	#5927.58	64.3 AV	68.2	-3.9	1.11 V	48	62.3	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. " # ": The radiated frequency is out of the restricted band.

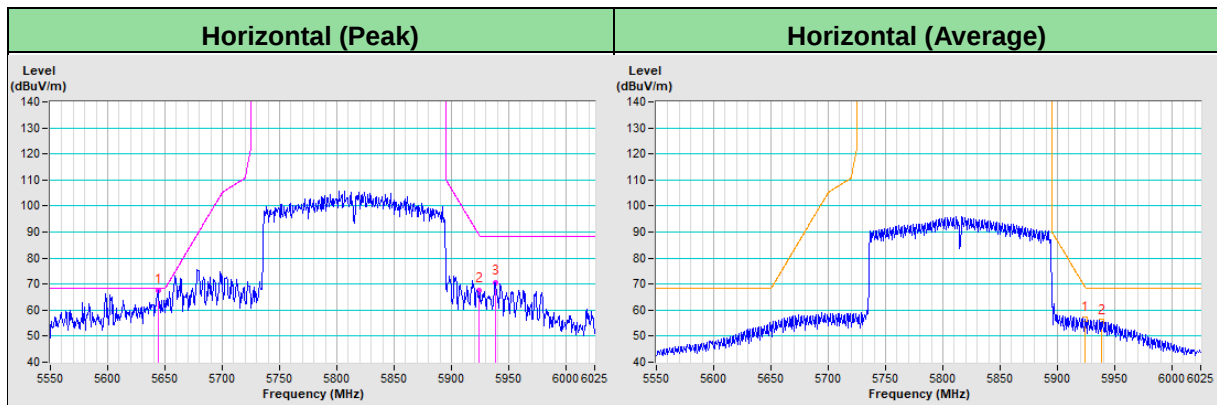


RF Mode	TX 802.11ax (HE160)	Channel	CH 163 : 5.815 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5644.04	67.4 PK	68.2	-0.8	2.05 H	89	65.8	1.6
PK.2	#5924.23	67.7 PK	88.8	-21.1	2.05 H	89	65.7	2.0
PK.3	#5938.11	70.7 PK	88.2	-17.5	2.05 H	89	68.6	2.1
AV.1	#5924.23	56.6 AV	68.8	-12.2	2.05 H	89	54.6	2.0
AV.2	#5938.11	55.5 AV	68.2	-12.7	2.05 H	89	53.4	2.1

Remarks:

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

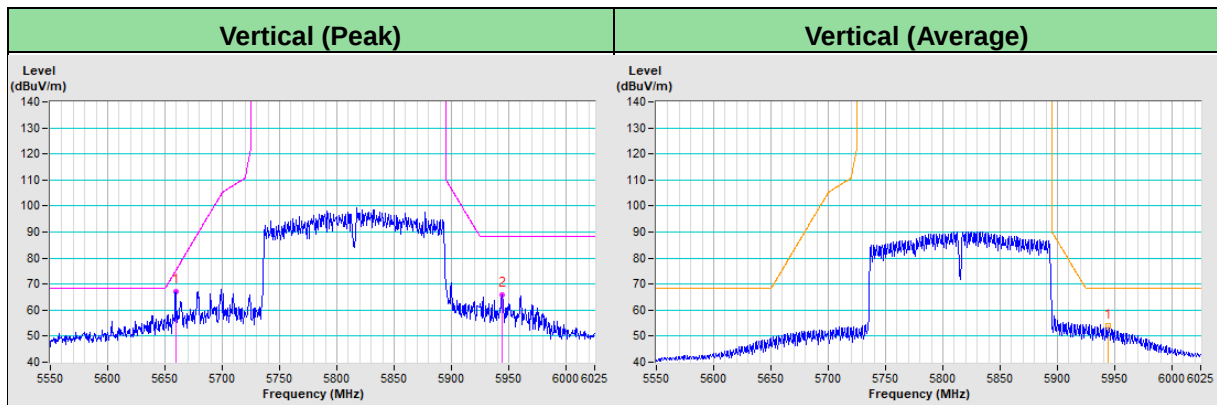


RF Mode	TX 802.11ax (HE160)	Channel	CH 163 : 5.815 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5659.61	67.1 PK	75.3	-8.2	1.10 V	51	65.5	1.6
PK.2	#5944.21	65.8 PK	88.2	-22.4	1.10 V	51	63.6	2.2
AV.1	#5944.21	53.8 AV	68.2	-14.4	1.10 V	51	51.6	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. " # ": The radiated frequency is out of the restricted band.

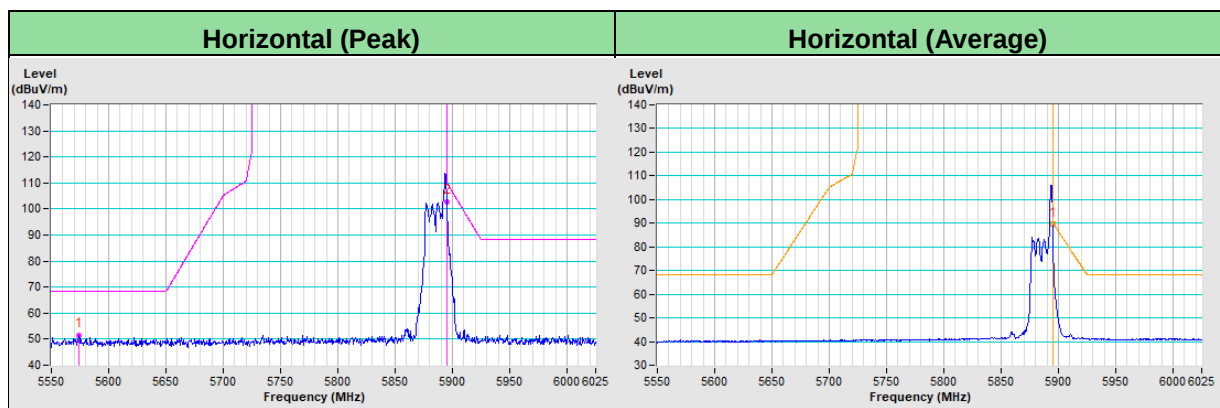


RF Mode	TX 802.11ax (RU26)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5573.80	51.5 PK	68.2	-16.7	1.92 H	93	50.1	1.4
PK.2	#5895.00	102.7 PK	110.2	-7.5	1.92 H	93	100.8	1.9
AV.1	#5895.00	89.8 AV	90.2	-0.4	1.92 H	93	87.9	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. " # ": The radiated frequency is out of the restricted band.

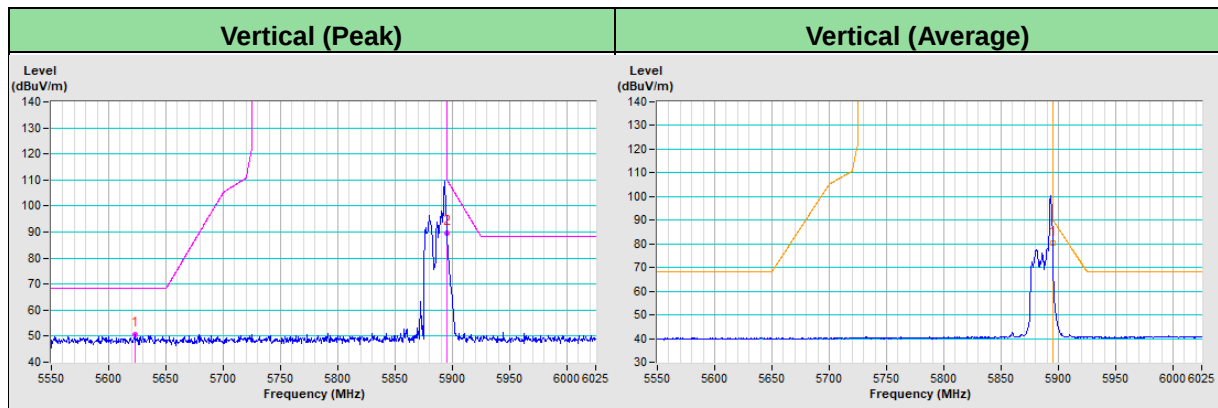


RF Mode	TX 802.11ax (RU26)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5622.86	50.5 PK	68.2	-17.7	1.51 V	41	48.9	1.6
PK.2	#5895.00	89.5 PK	110.2	-20.7	1.51 V	41	87.6	1.9
AV.1	#5895.00	80.4 AV	90.2	-9.8	1.51 V	41	78.5	1.9

Remarks:

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

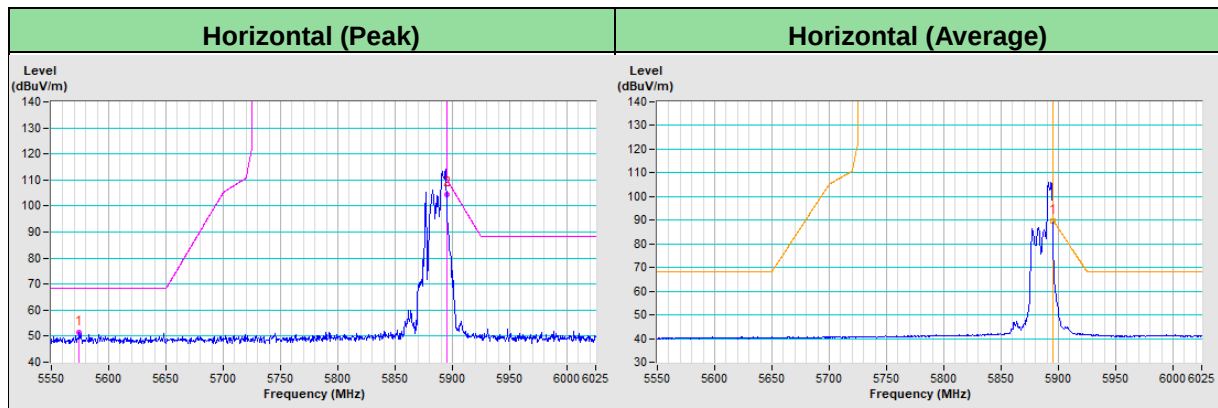


RF Mode	TX 802.11ax (RU52)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5574.15	51.3 PK	68.2	-16.9	1.92 H	93	49.9	1.4
PK.2	#5895.00	104.4 PK	110.2	-5.8	1.92 H	93	102.5	1.9
AV.1	#5895.00	89.9 AV	90.2	-0.3	1.92 H	93	88.0	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. " # ": The radiated frequency is out of the restricted band.

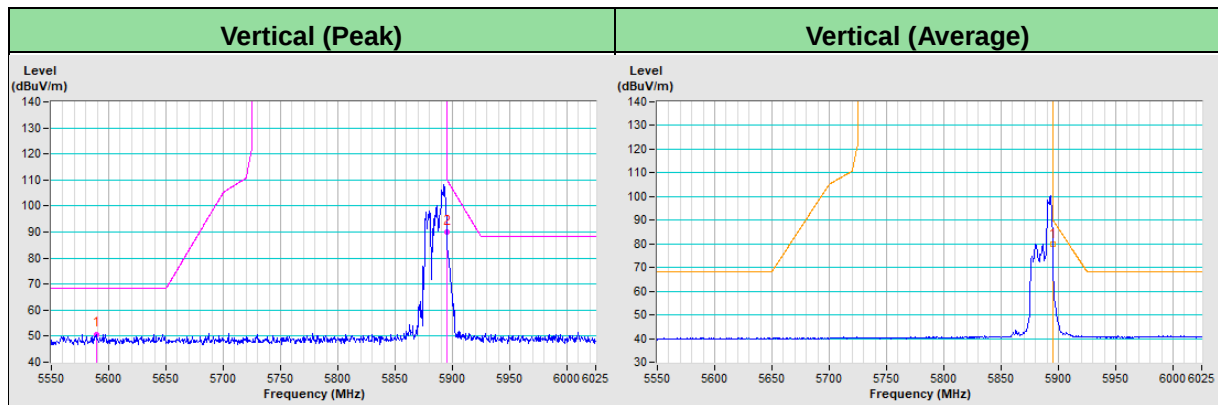


RF Mode	TX 802.11ax (RU52)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5589.25	50.7 PK	68.2	-17.5	1.52 V	38	49.2	1.5
PK.2	#5895.00	89.8 PK	110.2	-20.4	1.52 V	38	87.9	1.9
AV.1	#5895.00	79.7 AV	90.2	-10.5	1.52 V	38	77.8	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. " # ": The radiated frequency is out of the restricted band.

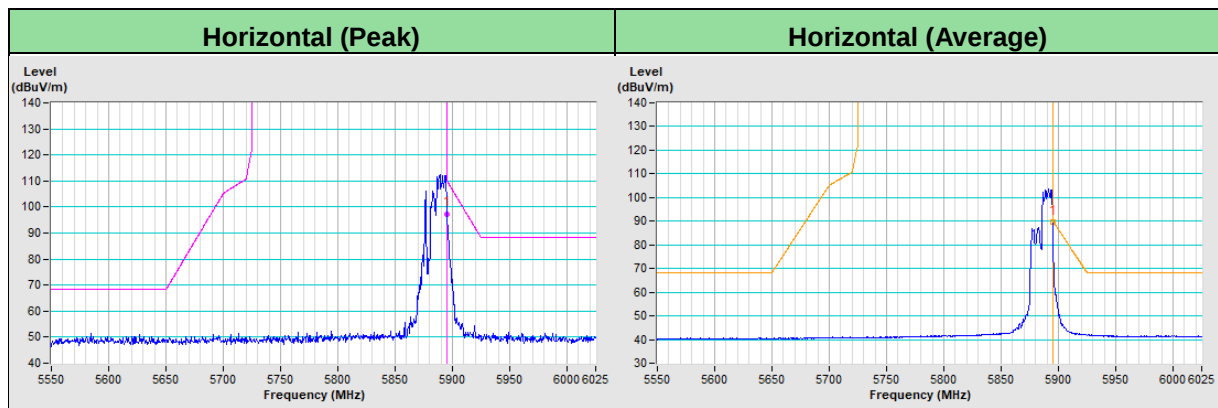


RF Mode	TX 802.11ax (RU106)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5895.00	97.3 PK	110.2	-12.9	1.90 H	93	95.4	1.9
AV.1	#5895.00	89.6 AV	90.2	-0.6	1.90 H	93	87.7	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. " # ": The radiated frequency is out of the restricted band.

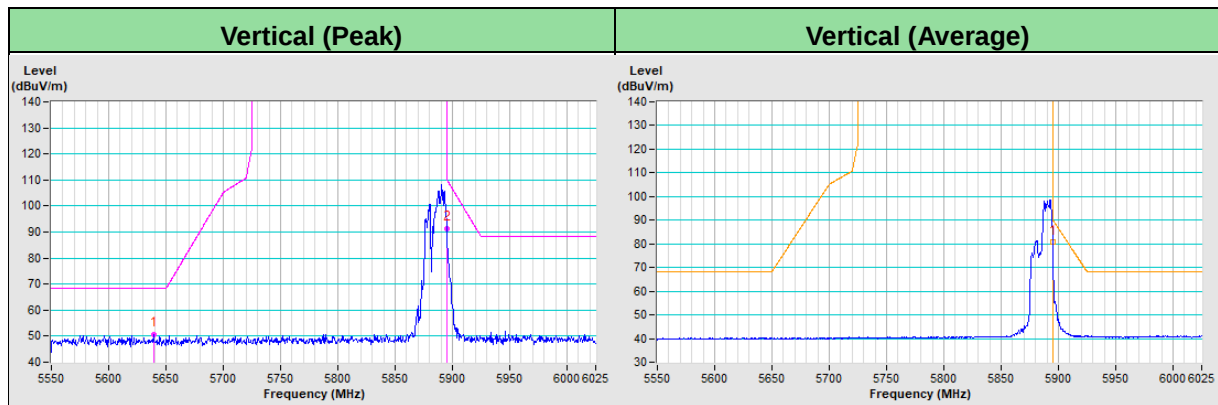


RF Mode	TX 802.11ax (RU106)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5639.43	50.7 PK	68.2	-17.5	1.48 V	42	49.1	1.6
PK.2	#5895.00	91.4 PK	110.2	-18.8	1.48 V	42	89.5	1.9
AV.1	#5895.00	80.9 AV	90.2	-9.3	1.48 V	42	79.0	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. " # ": The radiated frequency is out of the restricted band.



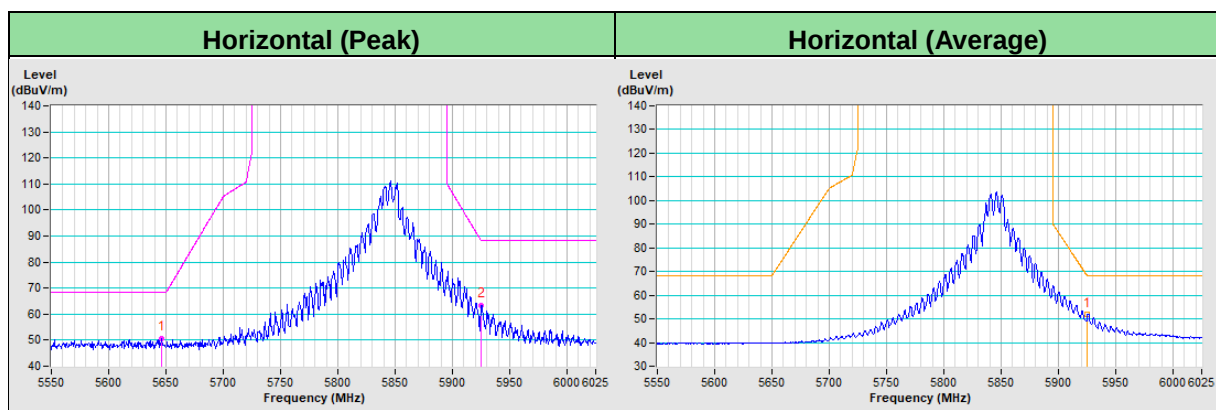
Antenna Set 4 (Model: AN2450-4902BRS)

RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	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)
PK.1	#5646.46	50.5 PK	68.2	-17.7	1.32 H	203	48.9	1.6
PK.2	#5925.00	63.4 PK	88.2	-24.8	1.32 H	203	61.4	2.0
AV.1	#5925.00	51.9 AV	68.2	-16.3	1.32 H	203	49.9	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. " # ": The radiated frequency is out of the restricted band.

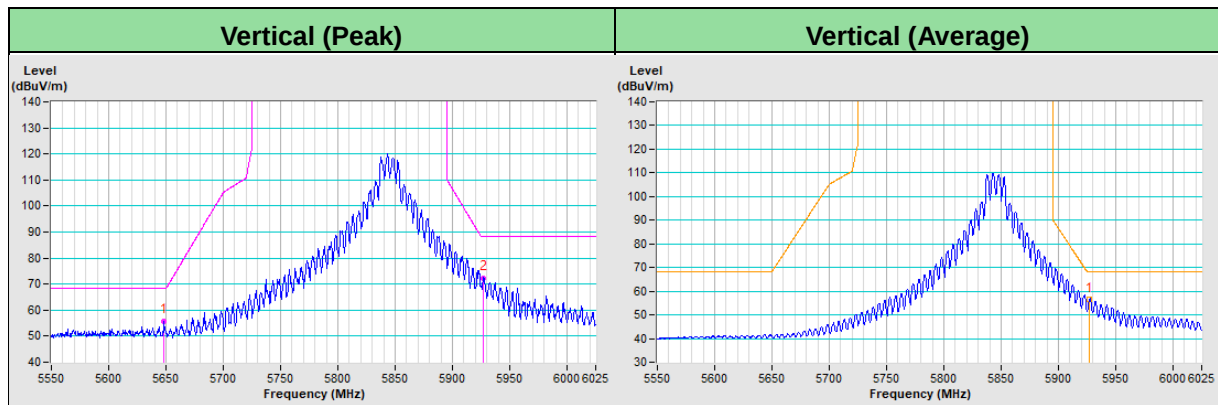


RF Mode	TX 802.11a	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5648.29	55.8 PK	68.2	-12.4	1.34 V	225	54.2	1.6
PK.2	#5927.15	72.4 PK	88.2	-15.8	1.34 V	225	70.4	2.0
AV.1	#5927.15	56.8 AV	68.2	-11.4	1.34 V	225	54.8	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. " # ": The radiated frequency is out of the restricted band.

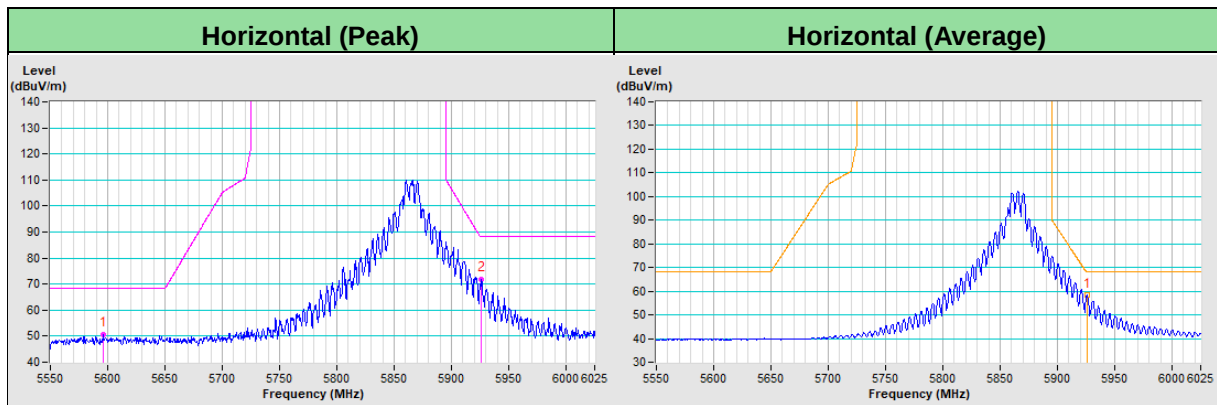


RF Mode	TX 802.11a	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5596.49	50.5 PK	68.2	-17.7	1.33 H	205	49.0	1.5
PK.2	#5926.10	71.9 PK	88.2	-16.3	1.33 H	205	69.9	2.0
AV.1	#5926.10	58.4 AV	68.2	-9.8	1.33 H	205	56.4	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. " # ": The radiated frequency is out of the restricted band.

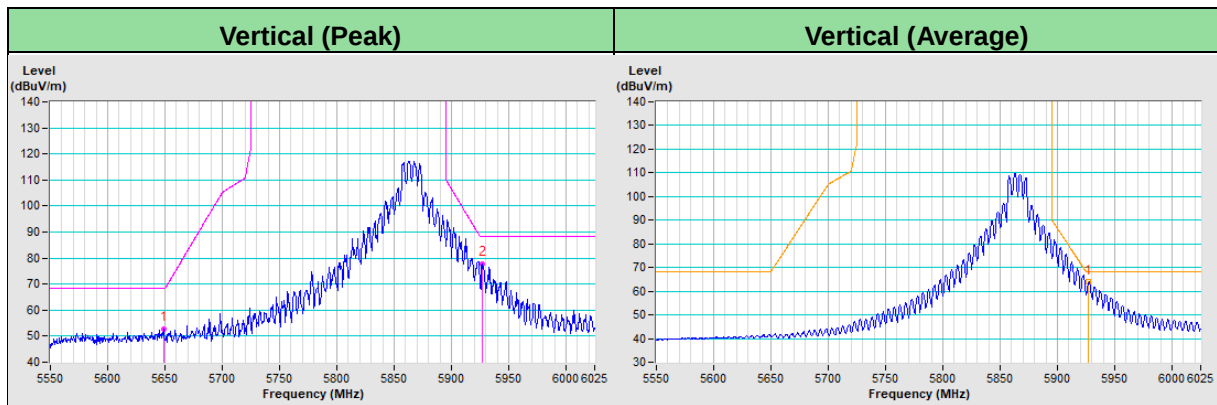


RF Mode	TX 802.11a	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5648.63	52.7 PK	68.2	-15.5	1.34 V	223	51.1	1.6
PK.2	#5927.22	77.8 PK	88.2	-10.4	1.34 V	223	75.8	2.0
AV.1	#5927.22	64.2 AV	68.2	-4.0	1.34 V	223	62.2	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. " # ": The radiated frequency is out of the restricted band.

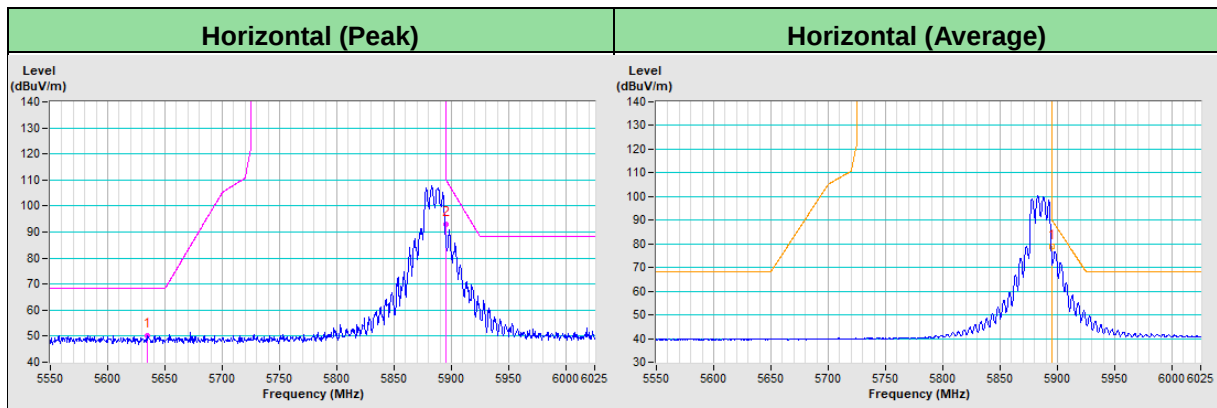


RF Mode	TX 802.11a	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5634.25	50.3 PK	68.2	-17.9	1.38 H	210	48.7	1.6
PK.2	#5895.00	93.1 PK	110.2	-17.1	1.38 H	210	91.2	1.9
AV.1	#5895.00	78.9 AV	90.2	-11.3	1.38 H	210	77.0	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. " # ": The radiated frequency is out of the restricted band.

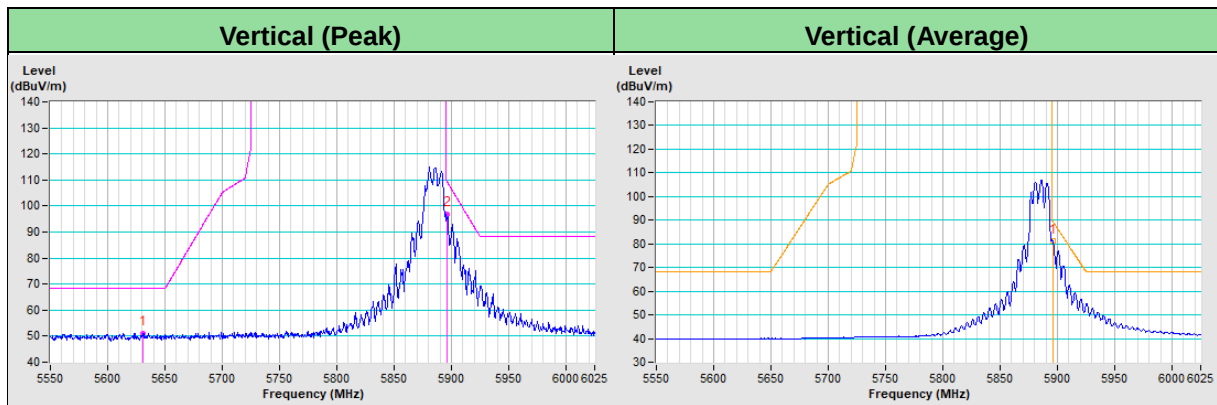


RF Mode	TX 802.11a	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5630.63	51.1 PK	68.2	-17.1	1.33 V	358	49.5	1.6
PK.2	#5895.87	96.7 PK	109.6	-12.9	1.32 V	358	94.8	1.9
AV.1	#5895.87	81.2 AV	89.6	-8.4	1.32 V	358	79.3	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. " # ": The radiated frequency is out of the restricted band.

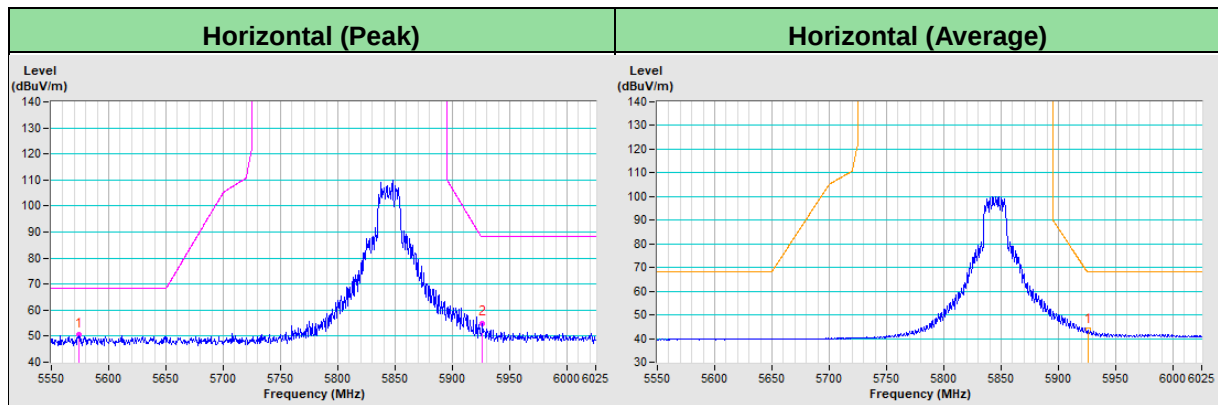


RF Mode	TX 802.11ax (HE20)	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5573.67	50.4 PK	68.2	-17.8	1.26 H	214	49.0	1.4
PK.2	#5926.10	55.0 PK	88.2	-33.2	1.26 H	214	53.0	2.0
AV.1	#5926.10	43.6 AV	68.2	-24.6	1.26 H	214	41.6	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. " # ": The radiated frequency is out of the restricted band.

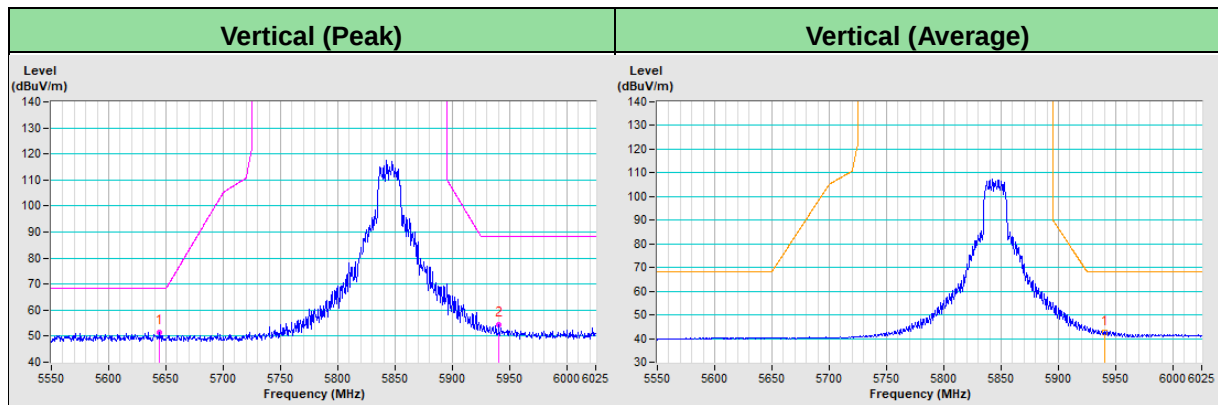


RF Mode	TX 802.11ax (HE20)	Channel	CH 169 : 5.845 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5644.50	51.6 PK	68.2	-16.6	1.33 V	223	50.0	1.6
PK.2	#5940.22	54.5 PK	88.2	-33.7	1.33 V	223	52.3	2.2
AV.1	#5940.22	42.8 AV	68.2	-25.4	1.33 V	223	40.6	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. " # ": The radiated frequency is out of the restricted band.

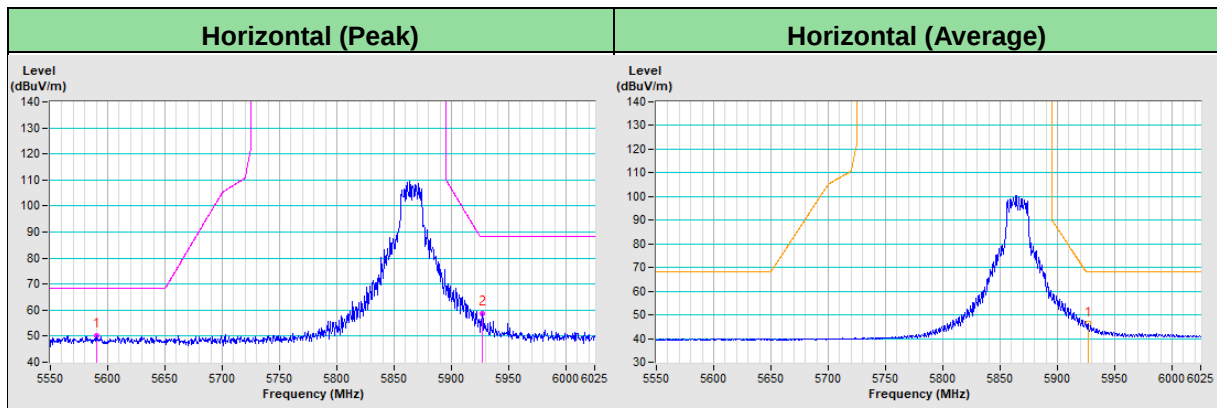


RF Mode	TX 802.11ax (HE20)	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5589.96	50.2 PK	68.2	-18.0	1.27 H	201	48.7	1.5
PK.2	#5927.00	58.7 PK	88.2	-29.5	1.27 H	201	56.7	2.0
AV.1	#5927.00	46.3 AV	68.2	-21.9	1.27 H	201	44.3	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. " # ": The radiated frequency is out of the restricted band.

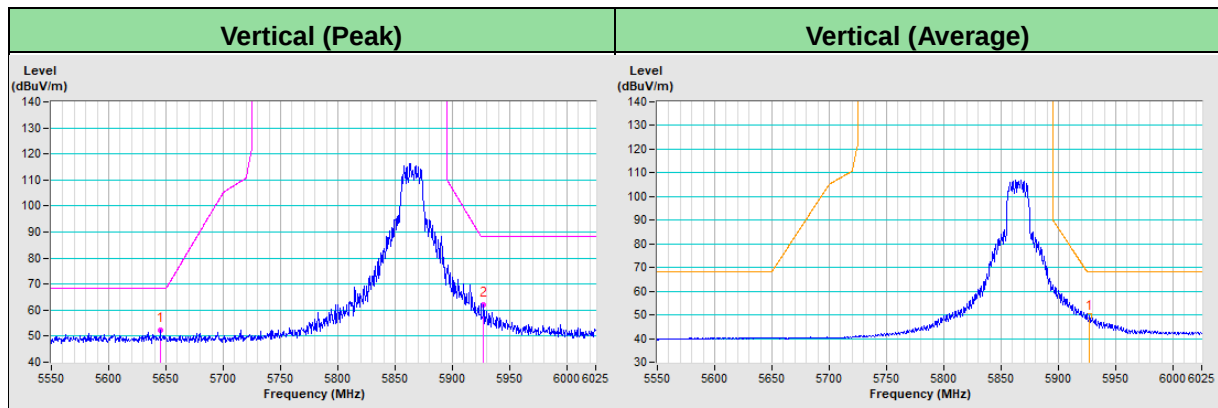


RF Mode	TX 802.11ax (HE20)	Channel	CH 173 : 5.865 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5645.21	52.4 PK	68.2	-15.8	1.33 V	223	50.8	1.6
PK.2	#5926.89	62.0 PK	88.2	-26.2	1.33 V	223	60.0	2.0
AV.1	#5926.89	49.4 AV	68.2	-18.8	1.31 V	221	47.4	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. " # ": The radiated frequency is out of the restricted band.

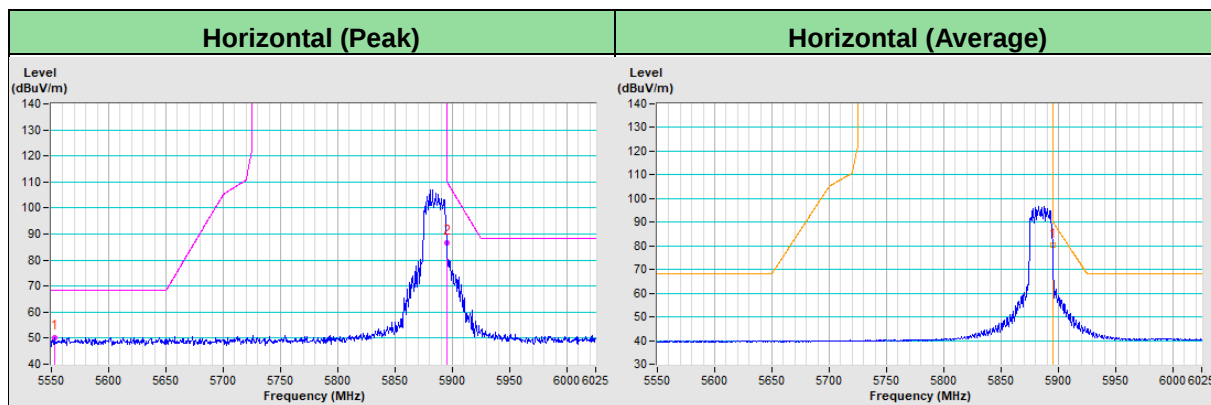


RF Mode	TX 802.11ax (HE20)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5552.72	50.3 PK	68.2	-17.9	1.29 H	216	49.0	1.3
PK.2	#5895.00	86.6 PK	110.2	-23.6	1.29 H	216	84.7	1.9
AV.1	#5895.00	80.3 AV	90.2	-9.9	1.29 H	216	78.4	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. " # ": The radiated frequency is out of the restricted band.

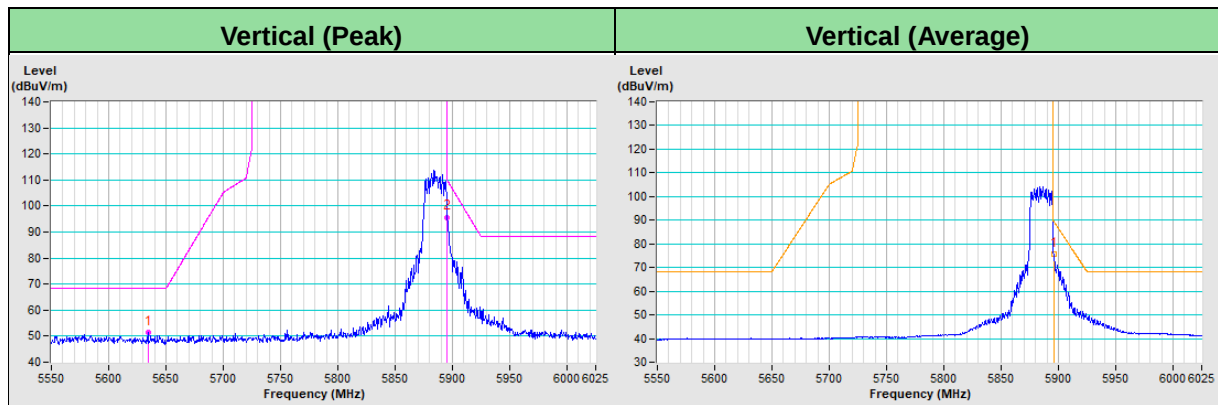


RF Mode	TX 802.11ax (HE20)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5634.45	51.3 PK	68.2	-16.9	1.38 V	222	49.7	1.6
PK.2	#5895.52	95.5 PK	109.8	-14.3	1.38 V	222	93.6	1.9
AV.1	#5895.92	75.8 AV	89.5	-13.7	1.38 V	22	73.9	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. " # ": The radiated frequency is out of the restricted band.

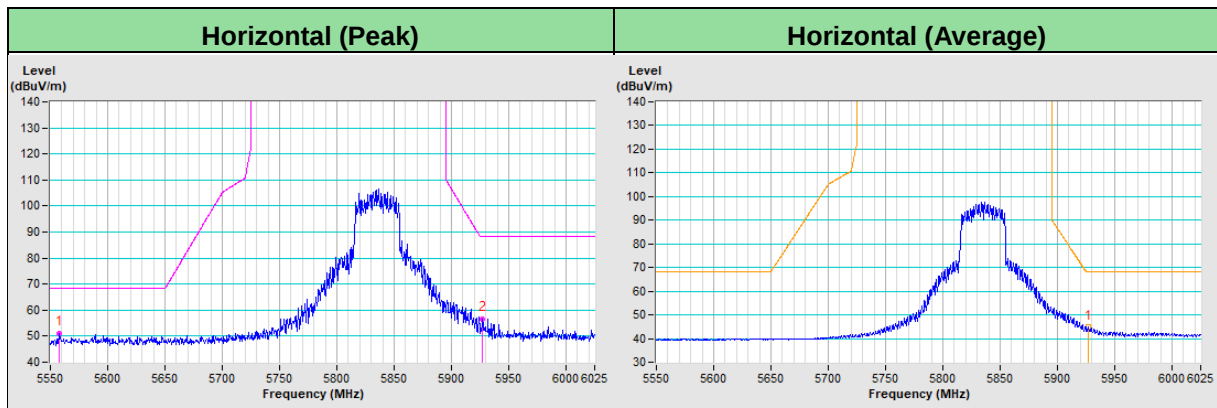


RF Mode	TX 802.11ax (HE40)	Channel	CH 167 : 5.835 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5557.61	51.1 PK	68.2	-17.1	1.35 H	215	49.8	1.3
PK.2	#5926.80	56.6 PK	88.2	-31.6	1.35 H	215	54.6	2.0
AV.1	#5926.80	44.9 AV	68.2	-23.3	1.35 H	215	42.9	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. " # ": The radiated frequency is out of the restricted band.

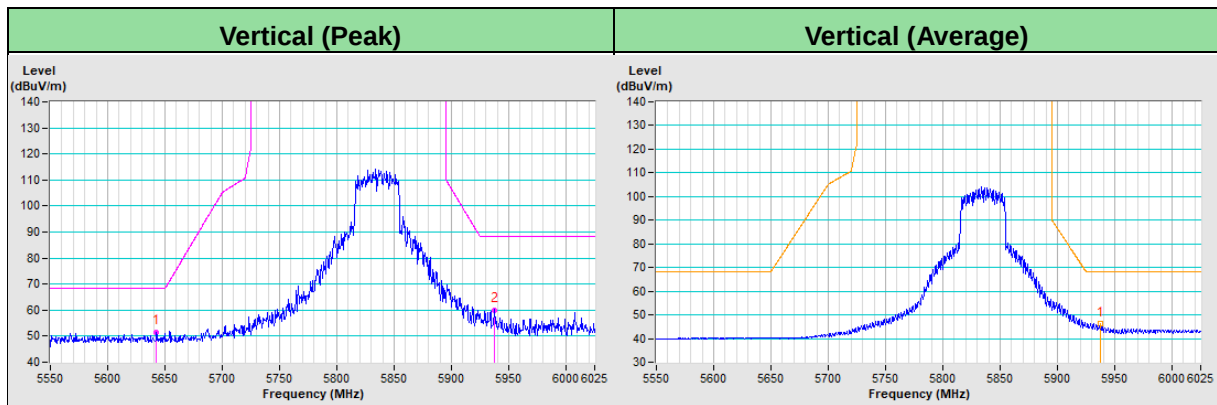


RF Mode	TX 802.11ax (HE40)	Channel	CH 167 : 5.835 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5642.42	51.6 PK	68.2	-16.6	1.39 V	225	50.0	1.6
PK.2	#5937.90	60.1 PK	88.2	-28.1	1.39 V	225	58.0	2.1
AV.1	#5937.90	46.3 AV	68.2	-21.9	1.39 V	225	44.2	2.1

Remarks:

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

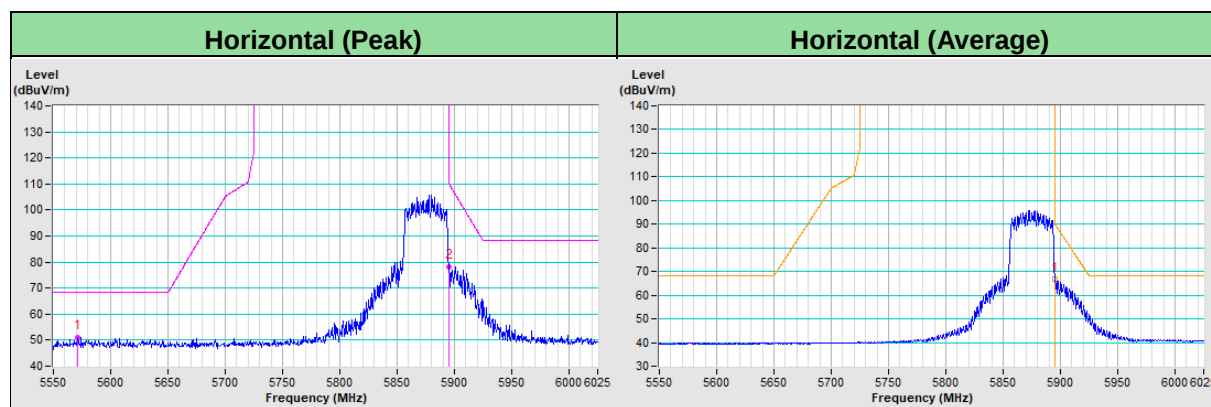


RF Mode	TX 802.11ax (HE40)	Channel	CH 175 : 5.875 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5571.19	50.9 PK	68.2	-17.3	1.39 H	211	49.5	1.4
PK.2	#5895.00	78.2 PK	110.2	-32.0	1.39 H	211	76.3	1.9
AV.1	#5895.00	66.9 AV	90.2	-23.3	1.39 H	211	65.0	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. " # ": The radiated frequency is out of the restricted band.

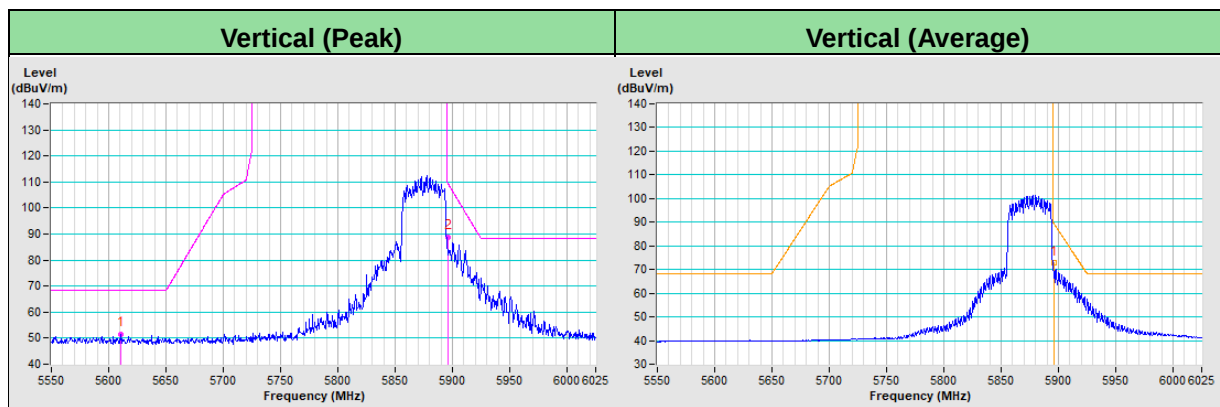


RF Mode	TX 802.11ax (HE40)	Channel	CH 175 : 5.875 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5610.25	51.5 PK	68.2	-16.7	1.38 V	224	50.0	1.5
PK.2	#5895.80	88.7 PK	109.6	-20.9	1.38 V	224	86.8	1.9
AV.1	#5895.80	72.8 AV	89.6	-16.8	1.38 V	224	70.9	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. " # ": The radiated frequency is out of the restricted band.

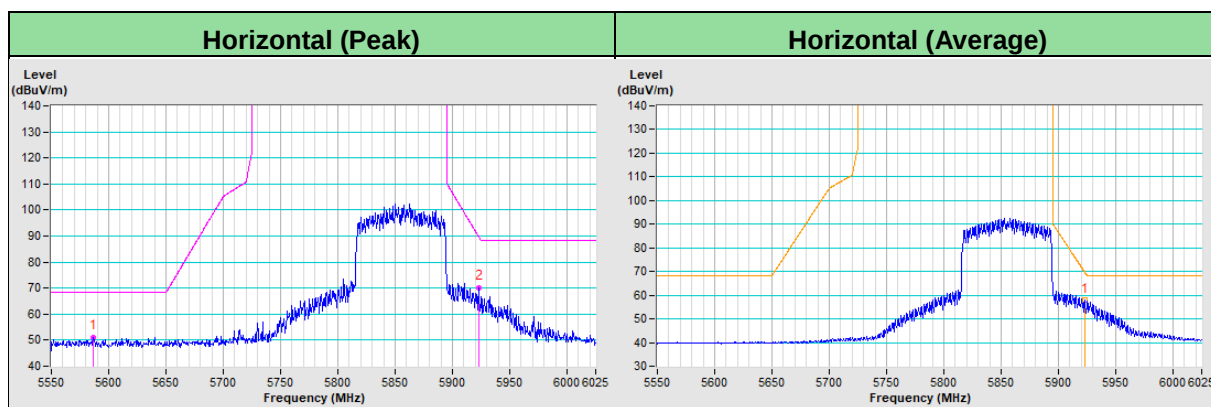


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5587.00	51.0 PK	68.2	-17.2	1.34 H	203	49.5	1.5
PK.2	#5922.77	70.2 PK	89.8	-19.6	1.34 H	203	68.2	2.0
AV.1	#5922.77	57.9 AV	69.8	-11.9	1.34 H	203	55.9	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. " # ": The radiated frequency is out of the restricted band.

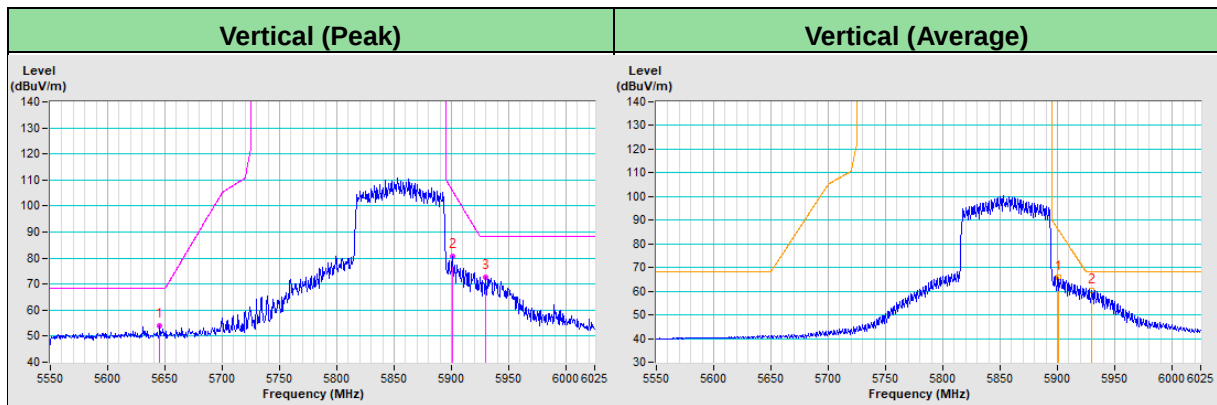


RF Mode	TX 802.11ax (HE80)	Channel	CH 171 : 5.855 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5645.34	53.9 PK	68.2	-14.3	1.40 V	225	52.3	1.6
PK.2	#5901.29	80.7 PK	105.6	-24.9	1.40 V	225	78.8	1.9
PK.3	#5929.79	72.6 PK	88.2	-15.6	1.40 V	225	70.6	2.0
AV.1	#5901.29	65.8 AV	85.6	-19.8	1.40 V	225	63.9	1.9
AV.2	#5929.79	60.4 AV	68.2	-7.8	1.40 V	225	58.4	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. " # ": The radiated frequency is out of the restricted band.

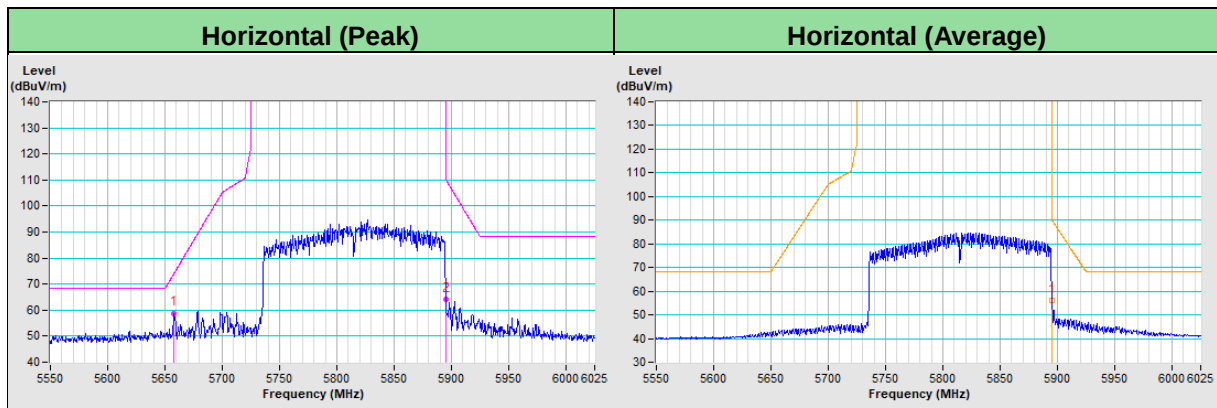


RF Mode	TX 802.11ax (HE160)	Channel	CH 163 : 5.815 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5658.06	58.8 PK	74.2	-15.4	1.30 H	109	57.2	1.6
PK.2	#5895.00	64.0 PK	110.2	-46.2	1.30 H	109	62.1	1.9
AV.1	#5895.00	56.2 AV	90.2	-34.0	1.30 H	109	54.3	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. " # ": The radiated frequency is out of the restricted band.

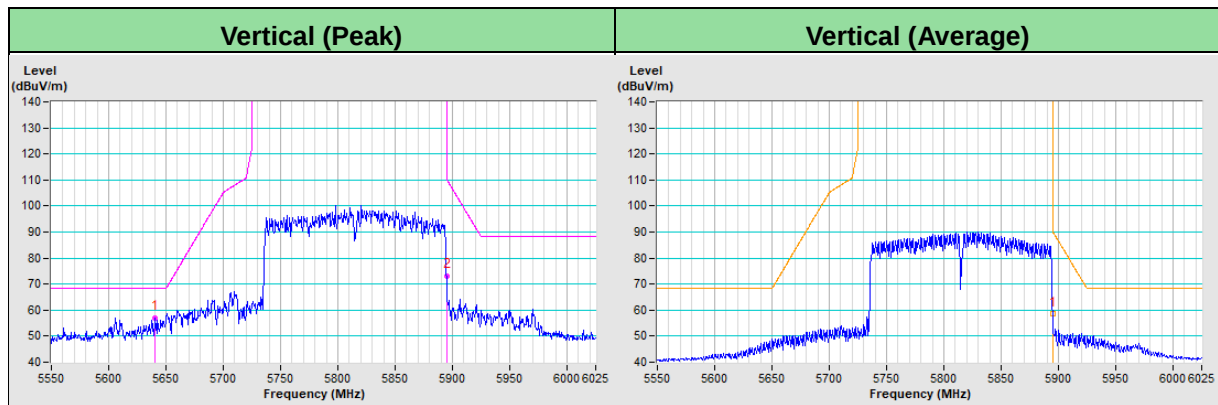


RF Mode	TX 802.11ax (HE160)	Channel	CH 163 : 5.815 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5640.75	57.1 PK	68.2	-11.1	1.35 V	136	55.5	1.6
PK.2	#5895.67	73.1 PK	109.7	-36.6	1.35 V	136	71.2	1.9
AV.1	#5895.67	58.5 AV	89.7	-31.2	1.35 V	136	56.6	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. " # ": The radiated frequency is out of the restricted band.

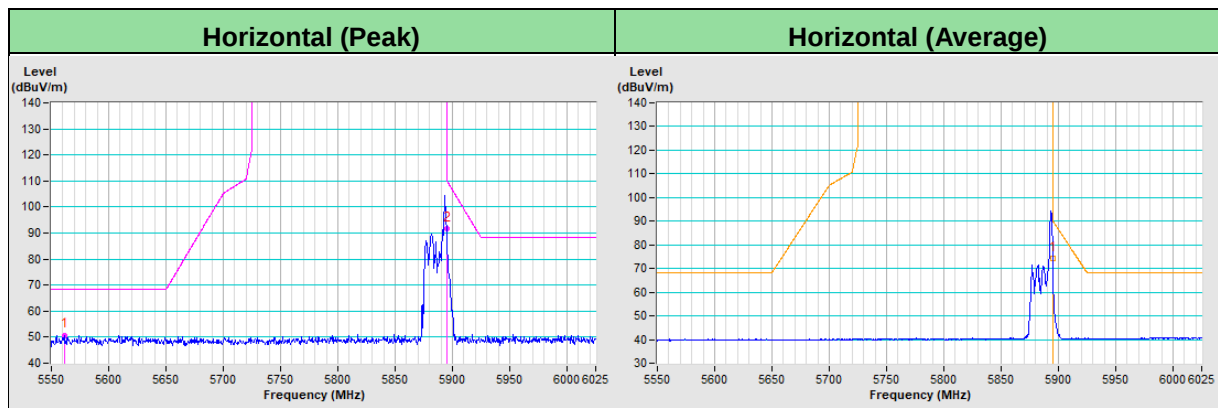


RF Mode	TX 802.11ax (RU26)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5561.53	50.7 PK	68.2	-17.5	1.44 H	247	49.3	1.4
PK.2	#5895.00	91.5 PK	110.2	-18.7	1.44 H	247	89.6	1.9
AV.1	#5895.00	74.5 AV	90.2	-15.7	1.44 H	247	72.6	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. " # ": The radiated frequency is out of the restricted band.

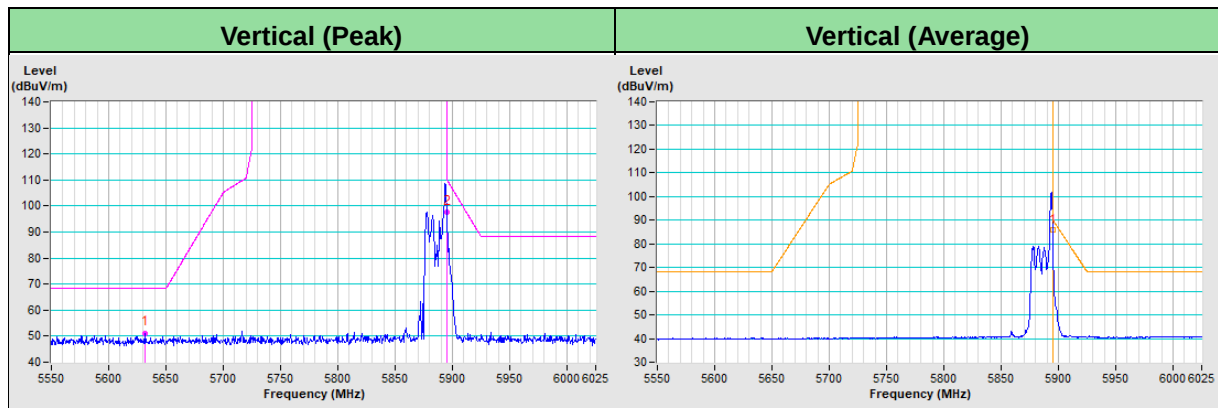


RF Mode	TX 802.11ax (RU26)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5631.39	51.0 PK	68.2	-17.2	1.50 V	195	49.4	1.6
PK.2	#5895.00	97.5 PK	110.2	-12.7	1.50 V	195	95.6	1.9
AV.1	#5895.00	85.8 AV	90.2	-4.4	1.50 V	195	83.9	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. " # ": The radiated frequency is out of the restricted band.

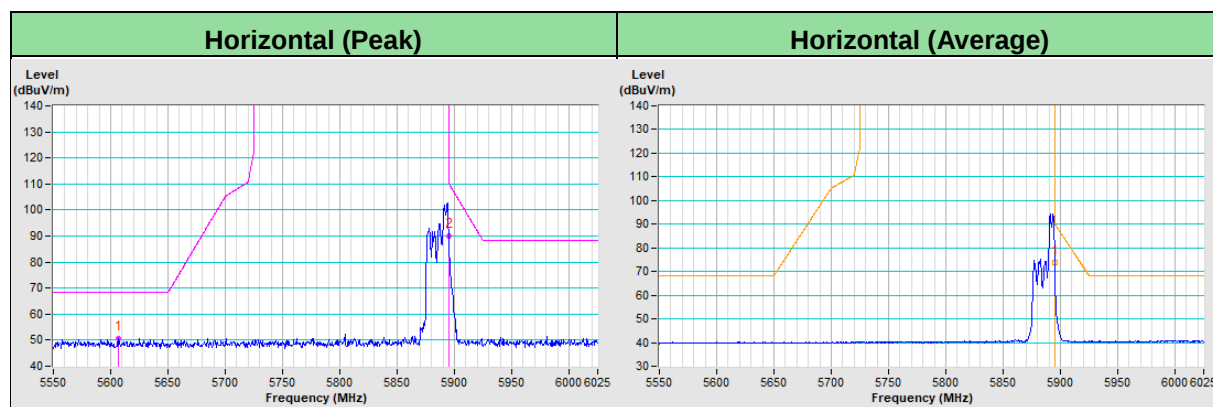


RF Mode	TX 802.11ax (RU52)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5606.41	50.7 PK	68.2	-17.5	1.48 H	243	49.2	1.5
PK.2	#5895.00	90.2 PK	110.2	-20.0	1.48 H	243	88.3	1.9
AV.1	#5895.00	73.9 AV	90.2	-16.3	1.48 H	243	68.8	5.1

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. " # ": The radiated frequency is out of the restricted band.

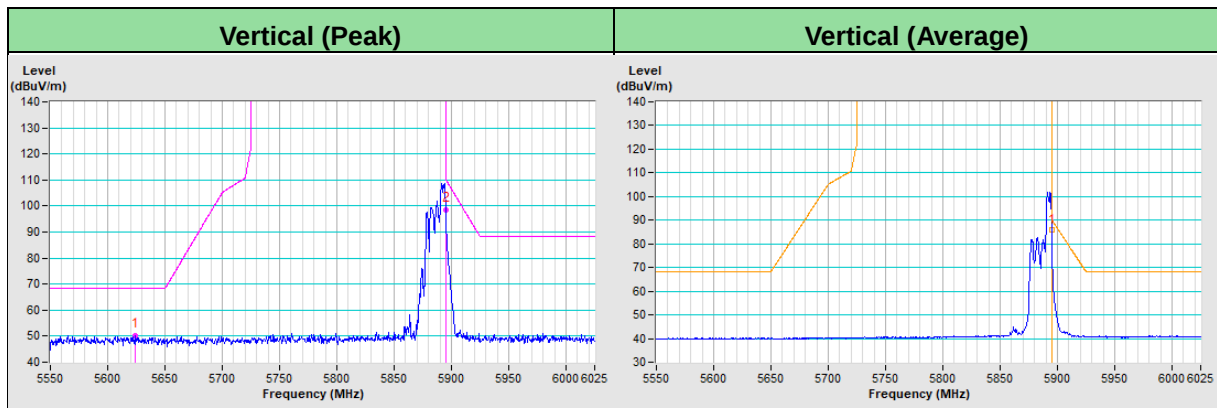


RF Mode	TX 802.11ax (RU52)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5623.62	50.1 PK	68.2	-18.1	1.49 V	192	48.5	1.6
PK.2	#5895.00	98.5 PK	110.2	-11.7	1.49 V	192	96.6	1.9
AV.1	#5895.00	85.7 AV	90.2	-4.5	1.49 V	192	83.8	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. " # ": The radiated frequency is out of the restricted band.

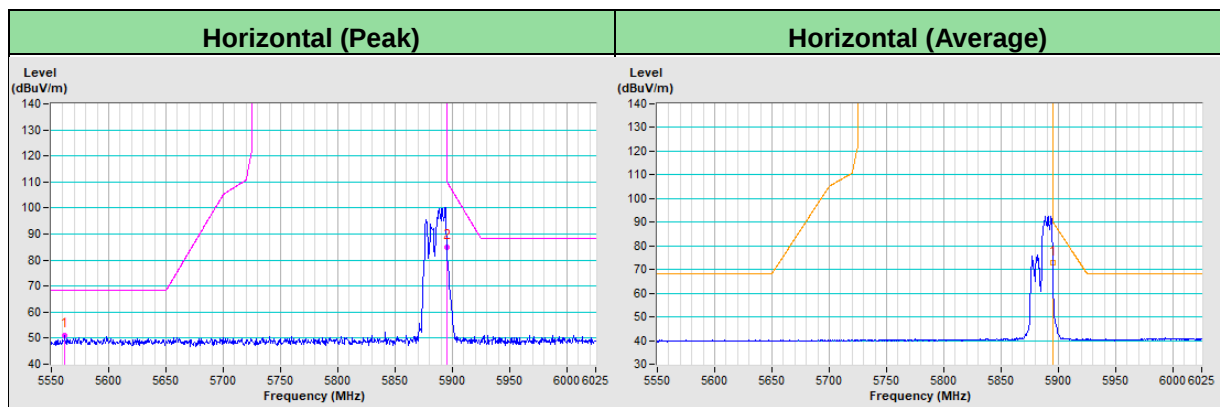


RF Mode	TX 802.11ax (RU106)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

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)
PK.1	#5561.83	51.0 PK	68.2	-17.2	1.46 H	241	49.6	1.4
PK.2	#5895.00	84.8 PK	110.2	-25.4	1.46 H	241	82.9	1.9
AV.1	#5895.00	72.8 AV	90.2	-17.4	1.46 H	241	70.9	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. " # ": The radiated frequency is out of the restricted band.

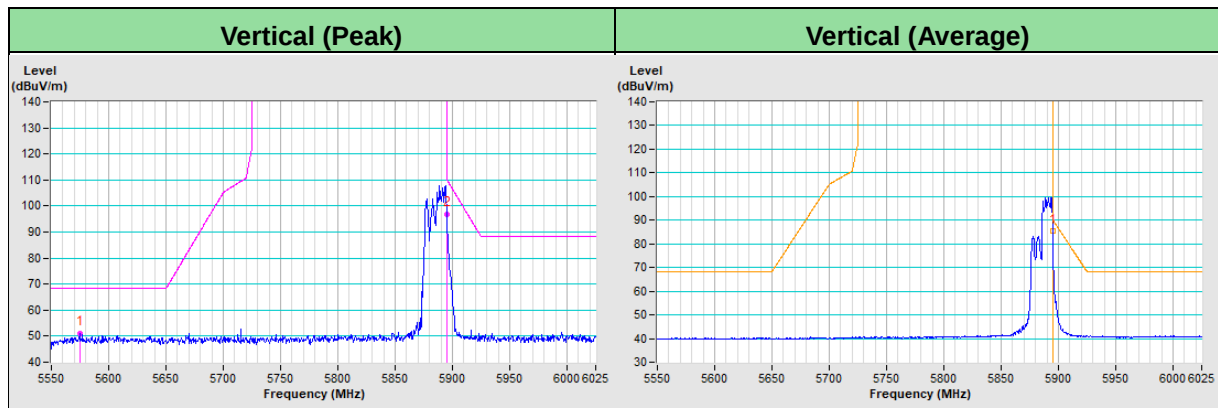


RF Mode	TX 802.11ax (RU106)	Channel	CH 177 : 5.885 GHz
Frequency Range	5550MHz ~ 6025MHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3m								
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)
PK.1	#5574.58	51.2 PK	68.2	-17.0	1.52 V	197	49.8	1.4
PK.2	#5895.00	96.7 PK	110.2	-13.5	1.52 V	197	94.8	1.9
AV.1	#5895.00	85.5 AV	90.2	-4.7	1.52 V	197	83.6	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. " # ": The radiated frequency is out of the restricted band.



Appendix – Information of the Testing Laboratories

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

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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