

FCC Test Report

Report No.: RFBARR-WTW-P21100969-1

FCC ID: RAS-MT7902

Test Model: MT7902

Received Date: 2021/10/28

Test Date: 2021/10/28 ~ 2022/1/12

Issued Date: 2022/1/27

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



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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21100969-1	Original release.	2022/1/27

1 Certificate of Conformity

Product: 1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7902

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2021/10/28 ~ 2022/1/12

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 , **Date:** 2022/1/27
Phoenix Huang / Specialist

Approved by : Clark Lin , **Date:** 2022/1/27
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -13.18 dB at 0.52500 MHz.
15.407(b) (1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement*	Pass	Meet the requirement of limit. Minimum passing margin is -0.1 dB at 5470.00 MHz and 5150.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. 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) ($\pm$)
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	1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7902
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	5.18 ~ 5.32 GHz, 5.50 ~ 5.72 GHz, 5.745 ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	5.18 ~ 5.25 GHz: 147.231 mW 5.25 ~ 5.32 GHz: 154.525 mW 5.5 ~ 5.72 GHz: 159.221 mW 5.745 ~ 5.825 GHz: 177.419 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
2. Simultaneously transmission condition.

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

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

3. The EUT have four HW SKU as following table:

SKU	Sample	Difference
1	Diversity version A	1. Version A & B are also same PCB with layout change. 2. The difference is adding/removing MOSFET components in GPIO bus for function optional.
2	Diversity version B	
3	1 TX only version A	
4	1 TX only version B	

Note: From the above HW SKUs, the worse case was found in **SKU 1**. Therefore only the test data of the SKU was recorded in this report.

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

Antenna Set No	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	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
	Chain1 (only Diversity Sample)	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
2	Chain0	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835	PIFA	ipex(MHF)	200
				4.82	5.15~5.895			
				4.76	5.925~6.425			
				4.29	6.425~6.525			
				4.61	6.525~6.875			
				4.09	6.875~7.125			
	Chain1 (only Diversity Sample)	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835	PIFA	ipex(MHF)	200
				4.82	5.15~5.895			
				4.76	5.925~6.425			
				4.29	6.425~6.525			
				4.61	6.525~6.875			
				4.09	6.875~7.125			

Note:

1. From the above transmission chains, the worse case was found in transmission on Chain 0 for 1TX diversity sample. Therefore only the test data of the mode was recorded in this report.
2. The Bluetooth technology will fix transmission on Chain 0.
3. Max. gain was selected for the final test.

5. The EUT incorporates a SISO function:

5GHz Band				
MODULATION MODE	TX & RX CONFIGURATION		SISO mode	Beamforming mode
802.11a	1TX Diversity or 1TX	1RX	Support	Not Support
802.11n (HT20)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11n (HT40)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ac (VHT20)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ac (VHT40)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ac (VHT80)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ac (VHT160)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ax (HE20)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ax (HE40)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ax (HE80)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ax (HE160)	1TX Diversity or 1TX	1RX	Support	Not Support
802.11ax (RU26/52/106/242/484/996/1992)	1TX Diversity or 1TX	1RX	Support	Not Support

Note:

1. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz), therefore the manufacturer will control the power for 802.11n mode as same as the 802.11ac mode and ax mode 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)

6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
7. The above Antenna information is declared by manufacturer 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 5180 ~ 5320MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720MHz

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

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

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

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

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

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

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

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

Where **RE≥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 Test (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	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0	-
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0	-
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	BPSK	MCS0	-
802.11ax (HE160)		114	114	OFDMA	BPSK	MCS0	-
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0	-
802.11ax (RU26)	5180-5320	36 to 64	36, 64	OFDMA	BPSK	MCS0	26/0, 26/8
	5500-5720	100 to 144	100, 140	OFDMA	BPSK	MCS0	26/0, 26/8
	5745-5825	149 to 165	149, 165	OFDMA	BPSK	MCS0	26/0, 26/8
802.11ax (RU52)	5180-5320	36 to 64	48	OFDMA	BPSK	MCS0	52/40
	5745-5825	149 to 165	165	OFDMA	BPSK	MCS0	52/40
802.11ax (RU106)	5180-5320	36 to 64	36, 64	OFDMA	BPSK	MCS0	106/53, 106/54
	5500-5720	100 to 144	100, 140	OFDMA	BPSK	MCS0	106/53, 106/54
	5745-5825	149 to 165	149, 165	OFDMA	BPSK	MCS0	106/53, 106/54

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, 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	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320, 5500-5720, 5745-5825	36 to 64, 100 to 144, 149 to 165	165	OFDM	BPSK	6Mb/s

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, 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	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320, 5500-5720, 5745-5825	36 to 64, 100 to 144, 149 to 165	165	OFDM	BPSK	6Mb/s

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, 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	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s	-
802.11ac (VHT20) (output power only)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	MCS0	-
802.11ac (VHT40) (output power only)		38 to 62	38, 46, 54, 62	OFDM	BPSK	MCS0	-
802.11ac (VHT80) (output power only)		42, 58	42, 58	OFDM	BPSK	MCS0	-
802.11ac (VHT160) (output power only)		50	50	OFDM	BPSK	MCS0	-
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0	-
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0	-
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s	-
802.11ac (VHT20) (output power only)		100 to 144	100, 116, 140, 144	OFDM	BPSK	MCS0	-
802.11ac (VHT40) (output power only)		102 to 142	102, 110, 134, 142	OFDM	BPSK	MCS0	-
802.11ac (VHT80) (output power only)		106 to 138	106, 122, 138	OFDM	BPSK	MCS0	-
802.11ac (VHT160) (output power only)		114	114	OFDM	BPSK	MCS0	-
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	BPSK	MCS0	-
802.11ax (HE160)		114	114	OFDMA	BPSK	MCS0	-
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s	-
802.11ac (VHT20) (output power only)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0	-
802.11ac (VHT40) (output power only)		151 to 159	151, 159	OFDM	BPSK	MCS0	-
802.11ac (VHT80) (output power only)		155	155	OFDM	BPSK	MCS0	-
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0	-
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0	-
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0	-

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11ax (RU26)	5180-5320	36 to 64	36, 64	OFDMA	BPSK	MCS0	26/0, 26/8
	5500-5720	100 to 144	100, 140	OFDMA	BPSK	MCS0	26/0, 26/8
	5745-5825	149 to 165	149, 165	OFDMA	BPSK	MCS0	26/0, 26/8
802.11ax (RU52)	5180-5320	36 to 64	48	OFDMA	BPSK	MCS0	52/40
	5745-5825	149 to 165	165	OFDMA	BPSK	MCS0	52/40
802.11ax (RU106)	5180-5320	36 to 64	36, 64	OFDMA	BPSK	MCS0	106/53, 106/54
	5500-5720	100 to 144	100, 140	OFDMA	BPSK	MCS0	106/53, 106/54
	5745-5825	149 to 165	149, 165	OFDMA	BPSK	MCS0	106/53, 106/54

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	20~25deg. C, 66~70%RH	120Vac, 60Hz	Carter Lin, Tom Yang
RE<1G	23deg. C, 66%RH	120Vac, 60Hz	Ryan Du
PLC	25deg. C, 75%RH	120Vac, 60Hz	Sampson Chen
APCM	25deg. C, 60%RH	120Vac, 60Hz	Eric Peng, Leon Dai

3.3 Duty Cycle of Test Signal

➤ Legacy Mode

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

802.11a: Duty cycle = 5.484 ms/5.989 ms = 0.916, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.38 \text{ dB}$

802.11ax (HE20): Duty cycle = 3.878 ms/4.381 ms = 0.885, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.53 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.877 ms/4.535 ms = 0.855, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.68 \text{ dB}$

802.11ax (HE80): Duty cycle = 1.884 ms/2.523 ms = 0.747, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.27 \text{ dB}$

802.11ax (HE160): Duty cycle = 1.014 ms/1.614 ms = 0.628, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.02 \text{ dB}$



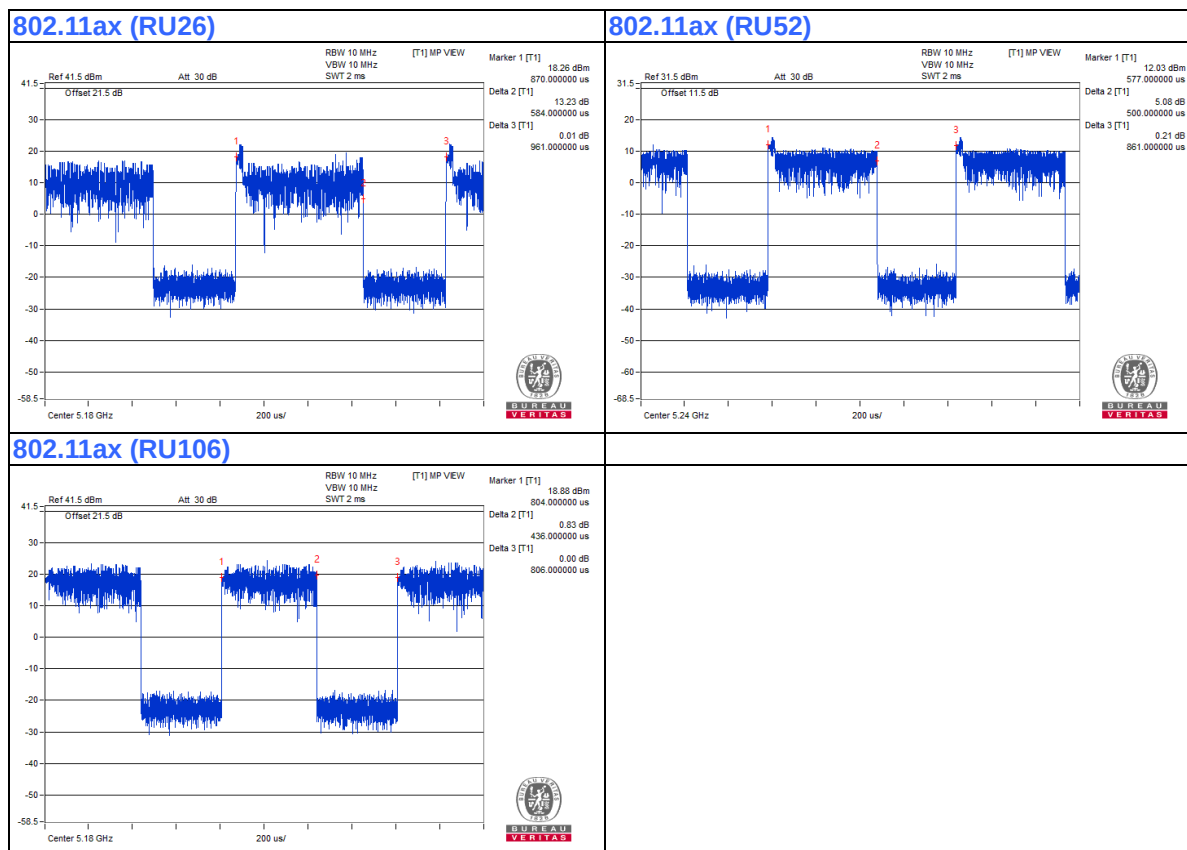
➤ RU Mode

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

802.11ax (RU26): Duty cycle = 0.584 ms/0.961 ms = 0.608, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.16 \text{ dB}$

802.11ax (RU52): Duty cycle = 0.5 ms/0.861 ms = 0.851, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.36 \text{ dB}$

802.11ax (RU106): Duty cycle = 0.436 ms/0.806 ms = 0.541, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.67 \text{ dB}$



3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	F9LYQ32	FCC DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by applicant
C.	Adapter	Dell	LA65NS2-01	NA	NA	Provided by Lab

Note:

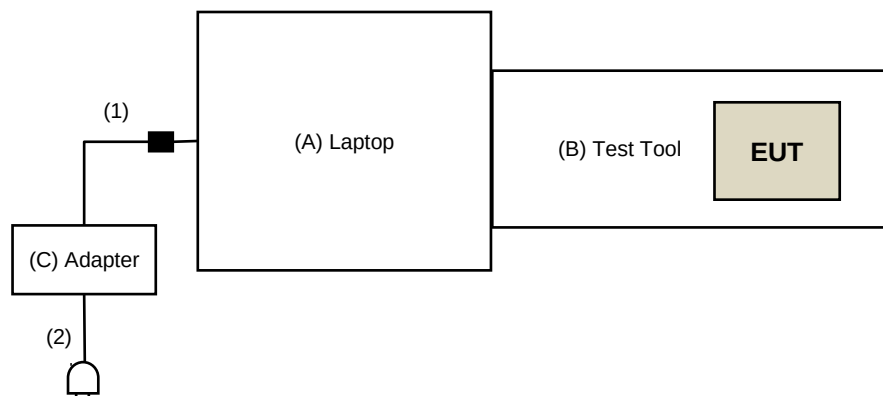
1. All power cords of the above support units are non-shielded (1.8m).

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

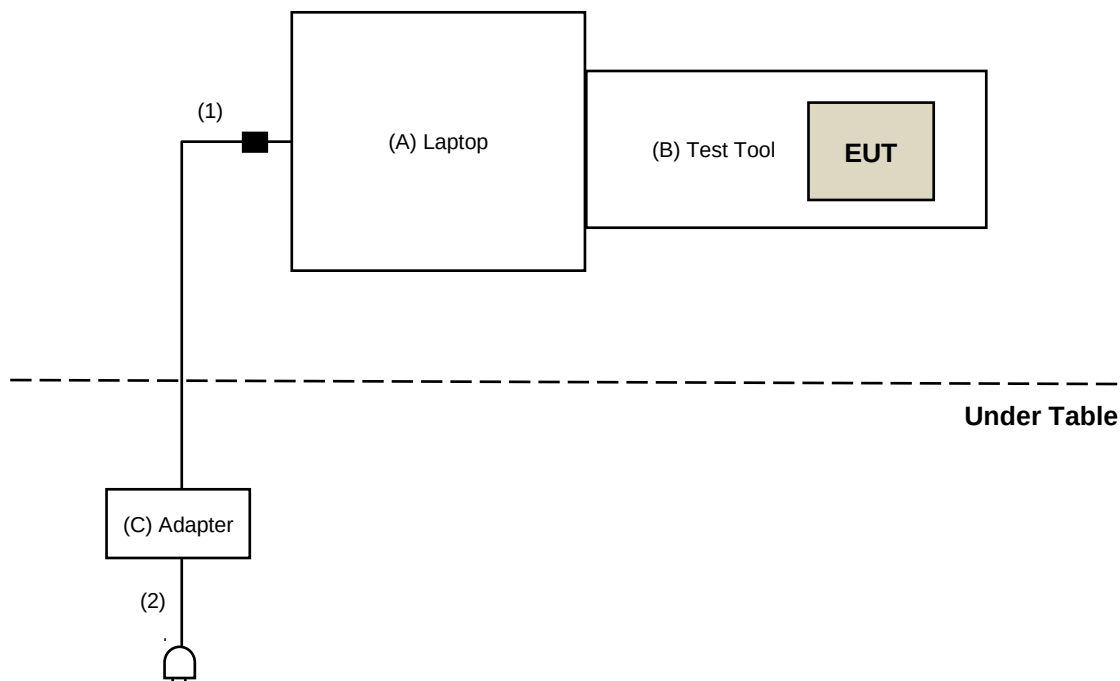
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For 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 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

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

Note:

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

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

4.1.2 Test Instruments

For Legacy mode Radiated Emission test:

For RU mode Bandedge & OOB test: (Horizontal Polarity)

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
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-1 200	160922	2020/12/25	2021/12/24
RF Coaxial Cable EMCI	EMC104-SM-SM-2 000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6 000	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-1 200	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: 2021/10/28 ~ 2021/11/10

For RU mode Bandedge & OOB test: (Vertical Polarity)

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18
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	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-1 200	160922	2021/12/24	2022/12/23
RF Coaxial Cable EMCI	EMC104-SM-SM-2 000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6 000	210704	2021/11/9	2022/11/8
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-1 200	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: 2022/1/8

For RU mode Radiated Emission (above 1GHz) test:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18
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	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-1 200	160922	2021/12/24	2022/12/23
RF Coaxial Cable EMCI	EMC104-SM-SM-2 000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6 000	210704	2021/11/9	2022/11/8
Pre_Amplifier EMCI	EMC184045SE	980387	2022/1/10	2023/1/9
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1 200	160924	2022/1/10	2023/1/9
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: 2022/1/11

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
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: 2021/12/8 ~ 2021/12/20

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 and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

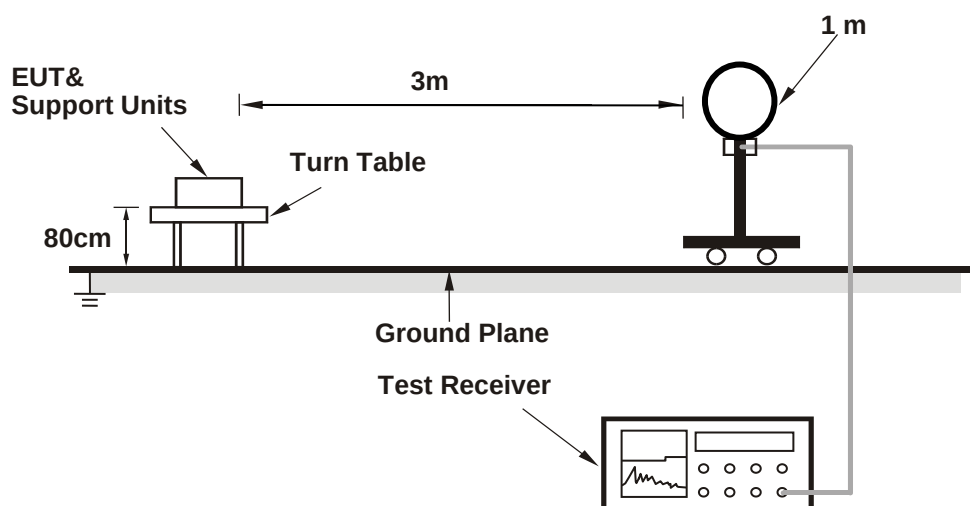
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

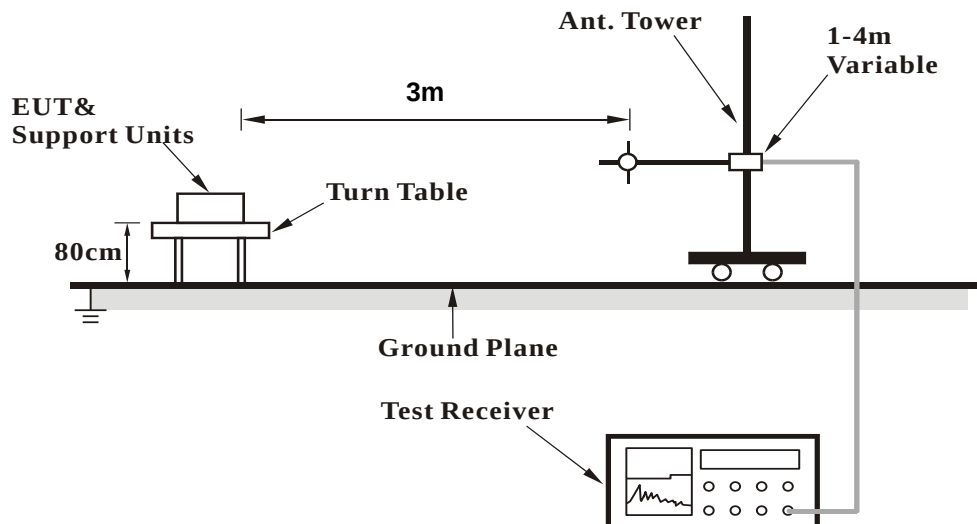
No deviation.

4.1.5 Test Setup

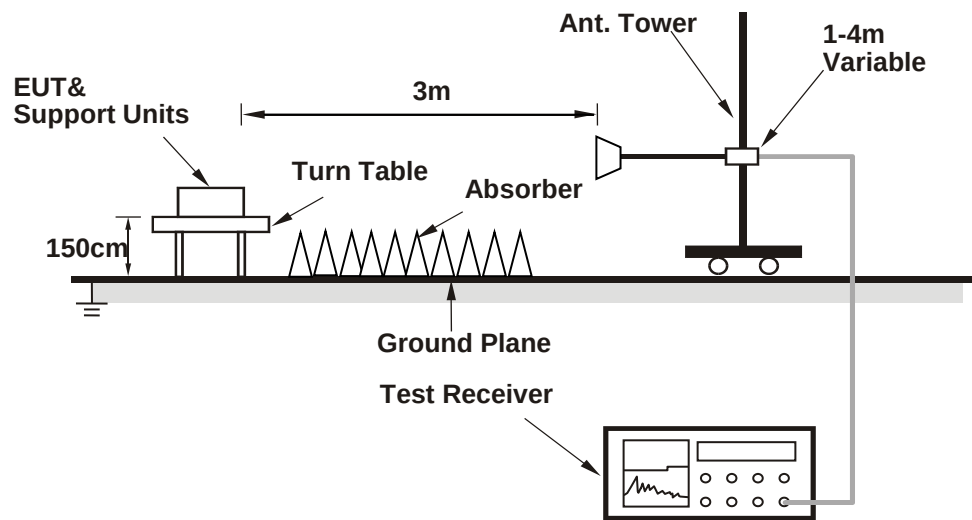
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Condition

- Placed the EUT on the testing table.
- Controlling software (MT7902 QA 0.0.2.82) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	2.16 H	84	61.4	1.0
2	5150.00	51.5 AV	54.0	-2.5	2.16 H	84	50.5	1.0
3	*5180.00	116.7 PK			2.16 H	84	116.0	0.7
4	*5180.00	108.6 AV			2.16 H	84	107.9	0.7
5	#10360.00	63.5 PK	68.2	-4.7	2.44 H	59	53.0	10.5
6	15540.00	49.4 PK	74.0	-24.6	2.33 H	130	37.9	11.5
7	15540.00	37.8 AV	54.0	-16.2	2.33 H	130	26.3	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.03 V	121	58.0	1.0
2	5150.00	45.2 AV	54.0	-8.8	1.03 V	121	44.2	1.0
3	*5180.00	110.2 PK			1.03 V	121	109.5	0.7
4	*5180.00	102.0 AV			1.03 V	121	101.3	0.7
5	#10360.00	53.5 PK	68.2	-14.7	1.45 V	291	43.0	10.5
6	15540.00	47.9 PK	74.0	-26.1	2.38 V	47	36.4	11.5
7	15540.00	36.0 AV	54.0	-18.0	2.38 V	47	24.5	11.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	119.2 PK			3.06 H	83	118.6	0.6
2	*5200.00	110.4 AV			3.06 H	83	109.8	0.6
3	#10400.00	63.5 PK	68.2	-4.7	2.38 H	46	52.8	10.7
4	15600.00	49.1 PK	74.0	-24.9	2.27 H	125	37.4	11.7
5	15600.00	37.7 AV	54.0	-16.3	2.27 H	125	26.0	11.7
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	*5200.00	111.4 PK			1.05 V	35	110.8	0.6
2	*5200.00	103.1 AV			1.05 V	35	102.5	0.6
3	#10400.00	53.1 PK	68.2	-15.1	1.41 V	319	42.4	10.7
4	15600.00	47.6 PK	74.0	-26.4	2.34 V	43	35.9	11.7
5	15600.00	35.6 AV	54.0	-18.4	2.34 V	43	23.9	11.7

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 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.0 PK			3.18 H	94	116.6	0.4
2	*5240.00	108.8 AV			3.18 H	94	108.4	0.4
3	5350.00	52.5 PK	74.0	-21.5	3.18 H	94	51.9	0.6
4	5350.00	42.2 AV	54.0	-11.8	3.18 H	94	41.6	0.6
5	#10480.00	62.9 PK	68.2	-5.3	2.39 H	55	52.4	10.5
6	15720.00	49.2 PK	74.0	-24.8	2.36 H	141	37.7	11.5
7	15720.00	37.7 AV	54.0	-16.3	2.36 H	141	26.2	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	111.9 PK			1.04 V	32	111.5	0.4
2	*5240.00	103.3 AV			1.04 V	32	102.9	0.4
3	5350.00	52.5 PK	74.0	-21.5	1.04 V	32	51.9	0.6
4	5350.00	42.0 AV	54.0	-12.0	1.04 V	32	41.4	0.6
5	#10480.00	52.8 PK	68.2	-15.4	1.44 V	298	42.3	10.5
6	15720.00	48.2 PK	74.0	-25.8	2.34 V	62	36.7	11.5
7	15720.00	36.2 AV	54.0	-17.8	2.34 V	62	24.7	11.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.0 PK	74.0	-22.0	3.03 H	101	51.0	1.0
2	5150.00	41.7 AV	54.0	-12.3	3.03 H	101	40.7	1.0
3	*5260.00	119.8 PK			3.03 H	101	119.5	0.3
4	*5260.00	111.0 AV			3.03 H	101	110.7	0.3
5	#10520.00	63.6 PK	68.2	-4.6	2.49 H	72	53.2	10.4
6	15780.00	50.0 PK	74.0	-24.0	2.36 H	116	38.6	11.4
7	15780.00	38.1 AV	54.0	-15.9	2.36 H	116	26.7	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.9 PK	74.0	-22.1	1.01 V	55	50.9	1.0
2	5150.00	41.6 AV	54.0	-12.4	1.01 V	55	40.6	1.0
3	*5260.00	111.4 PK			1.01 V	55	111.1	0.3
4	*5260.00	102.9 AV			1.01 V	55	102.6	0.3
5	#10520.00	54.0 PK	68.2	-14.2	1.33 V	299	43.6	10.4
6	15780.00	47.4 PK	74.0	-26.6	2.40 V	52	36.0	11.4
7	15780.00	35.6 AV	54.0	-18.4	2.40 V	52	24.2	11.4

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	119.3 PK			2.98 H	93	119.0	0.3
2	*5300.00	110.2 AV			2.98 H	93	109.9	0.3
3	10600.00	65.9 PK	74.0	-8.1	2.21 H	46	56.0	9.9
4	10600.00	53.1 AV	54.0	-0.9	2.21 H	46	43.2	9.9
5	15900.00	49.6 PK	74.0	-24.4	2.41 H	122	38.0	11.6
6	15900.00	37.7 AV	54.0	-16.3	2.41 H	122	26.1	11.6
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	*5300.00	110.9 PK			1.00 V	39	110.6	0.3
2	*5300.00	102.7 AV			1.00 V	39	102.4	0.3
3	10600.00	53.2 PK	74.0	-20.8	1.41 V	293	43.3	9.9
4	10600.00	41.5 AV	54.0	-12.5	1.41 V	293	31.6	9.9
5	15900.00	47.3 PK	74.0	-26.7	2.41 V	43	35.7	11.6
6	15900.00	35.5 AV	54.0	-18.5	2.41 V	43	23.9	11.6

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.

RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.9 PK			3.21 H	94	115.5	0.4
2	*5320.00	108.3 AV			3.21 H	94	107.9	0.4
3	5350.00	65.1 PK	74.0	-8.9	3.21 H	94	64.5	0.6
4	5350.00	53.7 AV	54.0	-0.3	3.21 H	94	53.1	0.6
5	10640.00	63.7 PK	74.0	-10.3	2.44 H	53	53.6	10.1
6	10640.00	51.5 AV	54.0	-2.5	2.44 H	53	41.4	10.1
7	15960.00	49.6 PK	74.0	-24.4	2.33 H	130	37.8	11.8
8	15960.00	37.9 AV	54.0	-16.1	2.33 H	130	26.1	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.1 PK			1.02 V	122	109.7	0.4
2	*5320.00	102.0 AV			1.02 V	122	101.6	0.4
3	5350.00	57.6 PK	74.0	-16.4	1.02 V	122	57.0	0.6
4	5350.00	45.7 AV	54.0	-8.3	1.02 V	122	45.1	0.6
5	10640.00	52.7 PK	74.0	-21.3	1.34 V	313	42.6	10.1
6	10640.00	41.0 AV	54.0	-13.0	1.34 V	313	30.9	10.1
7	15960.00	47.3 PK	74.0	-26.7	2.44 V	53	35.5	11.8
8	15960.00	35.4 AV	54.0	-18.6	2.44 V	53	23.6	11.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	3.04 H	92	58.1	0.8
2	5460.00	48.3 AV	54.0	-5.7	3.04 H	92	47.5	0.8
3	#5470.00	68.0 PK	68.2	-0.2	3.04 H	92	67.2	0.8
4	*5500.00	117.0 PK			3.04 H	92	116.2	0.8
5	*5500.00	109.0 AV			3.04 H	92	108.2	0.8
6	11000.00	63.7 PK	74.0	-10.3	2.49 H	46	52.6	11.1
7	11000.00	51.4 AV	54.0	-2.6	2.49 H	46	40.3	11.1
8	#16500.00	49.2 PK	68.2	-19.0	2.29 H	128	35.4	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.4 PK	74.0	-20.6	1.02 V	122	52.6	0.8
2	5460.00	42.2 AV	54.0	-11.8	1.02 V	122	41.4	0.8
3	#5470.00	59.8 PK	68.2	-8.4	1.02 V	122	59.0	0.8
4	*5500.00	109.3 PK			1.02 V	122	108.5	0.8
5	*5500.00	101.3 AV			1.02 V	122	100.5	0.8
6	11000.00	52.9 PK	74.0	-21.1	1.35 V	315	41.8	11.1
7	11000.00	41.0 AV	54.0	-13.0	1.35 V	315	29.9	11.1
8	#16500.00	47.6 PK	68.2	-20.6	2.38 V	58	33.8	13.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.2 PK			3.02 H	75	118.4	0.8
2	*5580.00	110.5 AV			3.02 H	75	109.7	0.8
3	11160.00	65.4 PK	74.0	-8.6	2.27 H	55	54.5	10.9
4	11160.00	52.9 AV	54.0	-1.1	2.27 H	55	42.0	10.9
5	#16740.00	49.3 PK	68.2	-18.9	2.46 H	107	34.2	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.9 PK			1.00 V	49	111.1	0.8
2	*5580.00	103.1 AV			1.00 V	49	102.3	0.8
3	11160.00	53.4 PK	74.0	-20.6	1.35 V	294	42.5	10.9
4	11160.00	41.5 AV	54.0	-12.5	1.35 V	294	30.6	10.9
5	#16740.00	47.7 PK	68.2	-20.5	2.33 V	54	32.6	15.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.3 PK			3.09 H	93	115.1	1.2
2	*5700.00	108.2 AV			3.09 H	93	107.0	1.2
3	#5725.00	67.7 PK	68.2	-0.5	3.09 H	93	66.4	1.3
4	11400.00	63.8 PK	74.0	-10.2	2.45 H	50	52.1	11.7
5	11400.00	51.6 AV	54.0	-2.4	2.45 H	50	39.9	11.7
6	#17100.00	49.5 PK	68.2	-18.7	2.29 H	118	33.2	16.3
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	*5700.00	111.7 PK			1.03 V	43	110.5	1.2
2	*5700.00	103.2 AV			1.03 V	43	102.0	1.2
3	#5725.00	62.1 PK	68.2	-6.1	1.03 V	43	60.8	1.3
4	11400.00	53.3 PK	74.0	-20.7	1.35 V	306	41.6	11.7
5	11400.00	41.1 AV	54.0	-12.9	1.35 V	306	29.4	11.7
6	#17100.00	47.6 PK	68.2	-20.6	2.36 V	53	31.3	16.3

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 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.0 PK	74.0	-21.0	3.00 H	71	52.2	0.8
2	5460.00	41.6 AV	54.0	-12.4	3.00 H	71	40.8	0.8
3	#5470.00	53.7 PK	68.2	-14.5	3.00 H	71	52.9	0.8
4	*5720.00	119.8 PK			3.00 H	71	118.5	1.3
5	*5720.00	110.9 AV			3.00 H	71	109.6	1.3
6	#5850.00	53.9 PK	68.2	-14.3	3.00 H	71	52.6	1.3
7	11440.00	66.0 PK	74.0	-8.0	2.19 H	56	54.3	11.7
8	11440.00	53.4 AV	54.0	-0.6	2.19 H	56	41.7	11.7
9	#17160.00	49.6 PK	68.2	-18.6	2.37 H	110	33.5	16.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.8 PK	74.0	-21.2	1.04 V	309	52.0	0.8
2	5460.00	41.5 AV	54.0	-12.5	1.04 V	309	40.7	0.8
3	#5470.00	53.4 PK	68.2	-14.8	1.04 V	309	52.6	0.8
4	*5720.00	110.6 PK			1.04 V	309	109.3	1.3
5	*5720.00	102.4 AV			1.04 V	309	101.1	1.3
6	#5850.00	53.7 PK	68.2	-14.5	1.04 V	309	52.4	1.3
7	11440.00	52.9 PK	74.0	-21.1	1.43 V	292	41.2	11.7
8	11440.00	41.1 AV	54.0	-12.9	1.43 V	292	29.4	11.7
9	#17160.00	47.4 PK	68.2	-20.8	2.39 V	62	31.3	16.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5584.22	55.6 PK	68.2	-12.6	3.02 H	95	53.9	1.7
2	*5745.00	119.6 PK			3.02 H	95	118.2	1.4
3	*5745.00	110.7 AV			3.02 H	95	109.3	1.4
4	#5946.51	50.2 PK	68.2	-18.0	3.02 H	95	47.9	2.3
5	11490.00	65.3 PK	74.0	-8.7	2.43 H	46	53.6	11.7
6	11490.00	53.7 AV	54.0	-0.3	2.43 H	46	42.0	11.7
7	#17235.00	50.5 PK	68.2	-17.7	2.30 H	127	34.6	15.9
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	#5583.48	50.9 PK	68.2	-17.3	1.03 V	313	49.2	1.7
2	*5745.00	111.0 PK			1.03 V	313	109.6	1.4
3	*5745.00	102.8 AV			1.03 V	313	101.4	1.4
4	#5926.91	48.8 PK	68.2	-19.4	1.03 V	313	46.6	2.2
5	11490.00	53.5 PK	74.0	-20.5	1.33 V	305	41.8	11.7
6	11490.00	41.7 AV	54.0	-12.3	1.33 V	305	30.0	11.7
7	#17235.00	47.5 PK	68.2	-20.7	2.34 V	45	31.6	15.9

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 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.75	54.5 PK	68.2	-13.7	3.02 H	97	52.7	1.8
2	*5785.00	119.5 PK			3.02 H	97	118.1	1.4
3	*5785.00	111.0 AV			3.02 H	97	109.6	1.4
4	#5943.97	53.1 PK	68.2	-15.1	3.02 H	97	50.8	2.3
5	11570.00	64.9 PK	74.0	-9.1	2.41 H	45	53.5	11.4
6	11570.00	53.8 AV	54.0	-0.2	2.41 H	45	42.4	11.4
7	#17355.00	50.2 PK	68.2	-18.0	2.36 H	138	33.7	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5621.10	49.7 PK	68.2	-18.5	1.02 V	48	47.9	1.8
2	*5785.00	111.6 PK			1.02 V	48	110.2	1.4
3	*5785.00	103.1 AV			1.02 V	48	101.7	1.4
4	#5946.45	49.4 PK	68.2	-18.8	1.02 V	48	47.1	2.3
5	11570.00	53.3 PK	74.0	-20.7	1.39 V	304	41.9	11.4
6	11570.00	41.3 AV	54.0	-12.7	1.39 V	304	29.9	11.4
7	#17355.00	47.8 PK	68.2	-20.4	2.38 V	50	31.3	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.80	50.6 PK	68.2	-17.6	3.02 H	96	48.8	1.8
2	*5825.00	119.5 PK			3.02 H	96	118.1	1.4
3	*5825.00	111.1 AV			3.02 H	96	109.7	1.4
4	#5933.10	53.3 PK	68.2	-14.9	3.02 H	96	51.1	2.2
5	11650.00	64.9 PK	74.0	-9.1	2.46 H	37	53.6	11.3
6	11650.00	53.6 AV	54.0	-0.4	2.46 H	37	42.3	11.3
7	#17475.00	50.2 PK	68.2	-18.0	2.37 H	135	32.6	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	#5569.32	48.6 PK	68.2	-19.6	1.00 V	52	46.9	1.7
2	*5825.00	111.6 PK			1.00 V	52	110.2	1.4
3	*5825.00	103.5 AV			1.00 V	52	102.1	1.4
4	#5985.35	49.3 PK	68.2	-18.9	1.00 V	52	47.0	2.3
5	11650.00	53.6 PK	74.0	-20.4	1.37 V	309	42.3	11.3
6	11650.00	41.4 AV	54.0	-12.6	1.37 V	309	30.1	11.3
7	#17475.00	47.9 PK	68.2	-20.3	2.33 V	60	30.3	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 (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.95 H	84	65.7	1.0
2	5150.00	53.5 AV	54.0	-0.5	1.95 H	84	52.5	1.0
3	*5180.00	118.9 PK			1.95 H	84	118.2	0.7
4	*5180.00	107.5 AV			1.95 H	84	106.8	0.7
5	#10360.00	57.2 PK	68.2	-11.0	2.07 H	32	46.7	10.5
6	15540.00	48.7 PK	74.0	-25.3	2.35 H	128	37.2	11.5
7	15540.00	36.9 AV	54.0	-17.1	2.35 H	128	25.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.2 PK	74.0	-10.8	1.00 V	123	62.2	1.0
2	5150.00	50.1 AV	54.0	-3.9	1.00 V	123	49.1	1.0
3	*5180.00	111.3 PK			1.00 V	123	110.6	0.7
4	*5180.00	101.1 AV			1.00 V	123	100.4	0.7
5	#10360.00	54.0 PK	68.2	-14.2	1.38 V	323	43.5	10.5
6	15540.00	47.4 PK	74.0	-26.6	2.35 V	53	35.9	11.5
7	15540.00	35.7 AV	54.0	-18.3	2.35 V	53	24.2	11.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	2.03 H	84	61.9	1.0
2	5150.00	51.1 AV	54.0	-2.9	2.03 H	84	50.1	1.0
3	*5200.00	119.2 PK			2.03 H	84	118.6	0.6
4	*5200.00	109.4 AV			2.03 H	84	108.8	0.6
5	#10400.00	57.5 PK	68.2	-10.7	2.16 H	35	46.8	10.7
6	15600.00	48.8 PK	74.0	-25.2	2.34 H	131	37.1	11.7
7	15600.00	37.0 AV	54.0	-17.0	2.34 H	131	25.3	11.7
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	5150.00	57.5 PK	74.0	-16.5	1.04 V	131	56.5	1.0
2	5150.00	47.7 AV	54.0	-6.3	1.04 V	131	46.7	1.0
3	*5200.00	113.8 PK			1.04 V	131	113.2	0.6
4	*5200.00	103.2 AV			1.04 V	131	102.6	0.6
5	#10400.00	54.0 PK	68.2	-14.2	1.40 V	309	43.3	10.7
6	15600.00	48.2 PK	74.0	-25.8	2.33 V	64	36.5	11.7
7	15600.00	36.6 AV	54.0	-17.4	2.33 V	64	24.9	11.7

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 (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.2 PK			2.05 H	83	117.8	0.4
2	*5240.00	108.2 AV			2.05 H	83	107.8	0.4
3	5350.00	53.0 PK	74.0	-21.0	2.05 H	83	52.4	0.6
4	5350.00	42.3 AV	54.0	-11.7	2.05 H	83	41.7	0.6
5	#10480.00	58.2 PK	68.2	-10.0	2.08 H	26	47.7	10.5
6	15720.00	48.6 PK	74.0	-25.4	2.25 H	146	37.1	11.5
7	15720.00	36.9 AV	54.0	-17.1	2.25 H	146	25.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.5 PK			1.02 V	118	112.1	0.4
2	*5240.00	102.1 AV			1.02 V	118	101.7	0.4
3	5350.00	51.4 PK	74.0	-22.6	1.02 V	118	50.8	0.6
4	5350.00	41.2 AV	54.0	-12.8	1.02 V	118	40.6	0.6
5	#10480.00	53.5 PK	68.2	-14.7	1.38 V	299	43.0	10.5
6	15720.00	47.9 PK	74.0	-26.1	2.31 V	62	36.4	11.5
7	15720.00	36.0 AV	54.0	-18.0	2.31 V	62	24.5	11.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.7 PK	74.0	-22.3	2.03 H	85	50.7	1.0
2	5150.00	41.2 AV	54.0	-12.8	2.03 H	85	40.2	1.0
3	*5260.00	118.6 PK			2.03 H	85	118.3	0.3
4	*5260.00	107.9 AV			2.03 H	85	107.6	0.3
5	#10520.00	57.9 PK	68.2	-10.3	2.12 H	25	47.5	10.4
6	15780.00	48.9 PK	74.0	-25.1	2.29 H	138	37.5	11.4
7	15780.00	37.2 AV	54.0	-16.8	2.29 H	138	25.8	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.8 PK	74.0	-22.2	1.00 V	122	50.8	1.0
2	5150.00	41.6 AV	54.0	-12.4	1.00 V	122	40.6	1.0
3	*5260.00	112.2 PK			1.00 V	122	111.9	0.3
4	*5260.00	101.7 AV			1.00 V	122	101.4	0.3
5	#10520.00	53.6 PK	68.2	-14.6	1.32 V	316	43.2	10.4
6	15780.00	48.3 PK	74.0	-25.7	2.32 V	54	36.9	11.4
7	15780.00	36.2 AV	54.0	-17.8	2.32 V	54	24.8	11.4

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	119.1 PK			2.02 H	96	118.8	0.3
2	*5300.00	108.3 AV			2.02 H	96	108.0	0.3
3	10600.00	58.1 PK	74.0	-15.9	2.14 H	39	48.2	9.9
4	10600.00	45.5 AV	54.0	-8.5	2.14 H	39	35.6	9.9
5	15900.00	48.7 PK	74.0	-25.3	2.32 H	138	37.1	11.6
6	15900.00	37.4 AV	54.0	-16.6	2.32 H	138	25.8	11.6
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	*5300.00	112.0 PK			1.06 V	138	111.7	0.3
2	*5300.00	101.6 AV			1.06 V	138	101.3	0.3
3	10600.00	54.0 PK	74.0	-20.0	1.42 V	305	44.1	9.9
4	10600.00	41.7 AV	54.0	-12.3	1.42 V	305	31.8	9.9
5	15900.00	47.4 PK	74.0	-26.6	2.31 V	54	35.8	11.6
6	15900.00	35.7 AV	54.0	-18.3	2.31 V	54	24.1	11.6

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.4 PK			3.25 H	87	116.0	0.4
2	*5320.00	101.5 AV			3.25 H	87	101.1	0.4
3	5350.00	68.9 PK	74.0	-5.1	3.25 H	87	68.3	0.6
4	5350.00	52.9 AV	54.0	-1.1	3.25 H	87	52.3	0.6
5	10640.00	58.0 PK	74.0	-16.0	2.16 H	12	47.9	10.1
6	10640.00	45.4 AV	54.0	-8.6	2.16 H	12	35.3	10.1
7	15960.00	48.4 PK	74.0	-25.6	2.28 H	131	36.6	11.8
8	15960.00	36.9 AV	54.0	-17.1	2.28 H	131	25.1	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.7 PK			1.06 V	122	110.3	0.4
2	*5320.00	99.4 AV			1.06 V	122	99.0	0.4
3	5350.00	58.9 PK	74.0	-15.1	1.06 V	122	58.3	0.6
4	5350.00	46.8 AV	54.0	-7.2	1.06 V	122	46.2	0.6
5	10640.00	54.2 PK	74.0	-19.8	1.32 V	320	44.1	10.1
6	10640.00	41.8 AV	54.0	-12.2	1.32 V	320	31.7	10.1
7	15960.00	47.3 PK	74.0	-26.7	2.39 V	65	35.5	11.8
8	15960.00	35.6 AV	54.0	-18.4	2.39 V	65	23.8	11.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.3 PK	74.0	-14.7	3.09 H	97	58.5	0.8
2	5460.00	46.6 AV	54.0	-7.4	3.09 H	97	45.8	0.8
3	#5470.00	68.1 PK	68.2	-0.1	3.09 H	97	67.3	0.8
4	*5500.00	117.3 PK			3.09 H	97	116.5	0.8
5	*5500.00	106.7 AV			3.09 H	97	105.9	0.8
6	11000.00	57.7 PK	74.0	-16.3	2.22 H	25	46.6	11.1
7	11000.00	45.3 AV	54.0	-8.7	2.22 H	25	34.2	11.1
8	#16500.00	48.9 PK	68.2	-19.3	2.29 H	143	35.1	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.5 PK	74.0	-20.5	1.07 V	124	52.7	0.8
2	5460.00	41.5 AV	54.0	-12.5	1.07 V	124	40.7	0.8
3	#5470.00	58.9 PK	68.2	-9.3	1.07 V	124	58.1	0.8
4	*5500.00	108.4 PK			1.07 V	124	107.6	0.8
5	*5500.00	98.1 AV			1.07 V	124	97.3	0.8
6	11000.00	54.2 PK	74.0	-19.8	1.42 V	303	43.1	11.1
7	11000.00	41.9 AV	54.0	-12.1	1.42 V	303	30.8	11.1
8	#16500.00	47.7 PK	68.2	-20.5	2.35 V	73	33.9	13.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.3 PK			3.14 H	84	117.5	0.8
2	*5580.00	107.7 AV			3.14 H	84	106.9	0.8
3	11160.00	58.2 PK	74.0	-15.8	2.15 H	10	47.3	10.9
4	11160.00	45.7 AV	54.0	-8.3	2.15 H	10	34.8	10.9
5	#16740.00	48.5 PK	68.2	-19.7	2.23 H	119	33.4	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	110.9 PK			1.04 V	139	110.1	0.8
2	*5580.00	100.7 AV			1.04 V	139	99.9	0.8
3	11160.00	53.3 PK	74.0	-20.7	1.38 V	323	42.4	10.9
4	11160.00	41.1 AV	54.0	-12.9	1.38 V	323	30.2	10.9
5	#16740.00	48.1 PK	68.2	-20.1	2.29 V	66	33.0	15.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.1 PK			3.05 H	98	114.9	1.2
2	*5700.00	105.5 AV			3.05 H	98	104.3	1.2
3	#5725.00	67.7 PK	68.2	-0.5	3.05 H	98	66.4	1.3
4	11400.00	57.9 PK	74.0	-16.1	2.20 H	20	46.2	11.7
5	11400.00	45.5 AV	54.0	-8.5	2.20 H	20	33.8	11.7
6	#17100.00	48.2 PK	68.2	-20.0	2.31 H	132	31.9	16.3
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	*5700.00	108.5 PK			1.07 V	129	107.3	1.2
2	*5700.00	98.4 AV			1.07 V	129	97.2	1.2
3	#5725.00	62.7 PK	68.2	-5.5	1.07 V	129	61.4	1.3
4	11400.00	53.4 PK	74.0	-20.6	1.33 V	322	41.7	11.7
5	11400.00	41.3 AV	54.0	-12.7	1.33 V	322	29.6	11.7
6	#17100.00	48.1 PK	68.2	-20.1	2.32 V	58	31.8	16.3

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 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.5 PK	74.0	-21.5	3.10 H	95	51.7	0.8
2	5460.00	41.1 AV	54.0	-12.9	3.10 H	95	40.3	0.8
3	#5470.00	54.1 PK	68.2	-14.1	3.10 H	95	53.3	0.8
4	*5720.00	118.5 PK			3.10 H	95	117.2	1.3
5	*5720.00	107.9 AV			3.10 H	95	106.6	1.3
6	#5850.00	53.5 PK	68.2	-14.7	3.10 H	95	52.2	1.3
7	11440.00	58.0 PK	74.0	-16.0	2.16 H	0	46.3	11.7
8	11440.00	45.5 AV	54.0	-8.5	2.16 H	0	33.8	11.7
9	#17160.00	48.9 PK	68.2	-19.3	2.22 H	135	32.8	16.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.0 PK	74.0	-21.0	1.04 V	144	52.2	0.8
2	5460.00	41.6 AV	54.0	-12.4	1.04 V	144	40.8	0.8
3	#5470.00	53.4 PK	68.2	-14.8	1.04 V	144	52.6	0.8
4	*5720.00	111.0 PK			1.04 V	144	109.7	1.3
5	*5720.00	100.8 AV			1.04 V	144	99.5	1.3
6	#5850.00	54.2 PK	68.2	-14.0	1.04 V	144	52.9	1.3
7	11440.00	53.4 PK	74.0	-20.6	1.38 V	299	41.7	11.7
8	11440.00	41.1 AV	54.0	-12.9	1.38 V	299	29.4	11.7
9	#17160.00	47.9 PK	68.2	-20.3	2.34 V	50	31.8	16.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.1 PK	68.2	-8.1	3.03 H	96	58.3	1.8
2	*5745.00	120.0 PK			3.03 H	96	118.6	1.4
3	*5745.00	109.9 AV			3.03 H	96	108.5	1.4
4	#5928.50	50.6 PK	68.2	-17.6	3.03 H	96	48.4	2.2
5	11490.00	64.1 PK	74.0	-9.9	2.40 H	32	52.4	11.7
6	11490.00	53.2 AV	54.0	-0.8	2.40 H	32	41.5	11.7
7	#17235.00	49.8 PK	68.2	-18.4	2.26 H	105	33.9	15.9
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	#5649.25	54.0 PK	68.2	-14.2	1.00 V	123	52.2	1.8
2	*5745.00	112.9 PK			1.00 V	123	111.5	1.4
3	*5745.00	103.5 AV			1.00 V	123	102.1	1.4
4	#5935.57	49.4 PK	68.2	-18.8	1.00 V	123	47.2	2.2
5	11490.00	53.0 PK	74.0	-21.0	1.38 V	319	41.3	11.7
6	11490.00	41.0 AV	54.0	-13.0	1.38 V	319	29.3	11.7
7	#17235.00	48.2 PK	68.2	-20.0	2.31 V	68	32.3	15.9

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 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.01	54.9 PK	68.2	-13.3	3.04 H	95	53.1	1.8
2	*5785.00	121.1 PK			3.04 H	95	119.7	1.4
3	*5785.00	110.6 AV			3.04 H	95	109.2	1.4
4	#5942.66	54.4 PK	68.2	-13.8	3.04 H	95	52.1	2.3
5	11570.00	64.8 PK	74.0	-9.2	2.42 H	42	53.4	11.4
6	11570.00	53.6 AV	54.0	-0.4	2.42 H	42	42.2	11.4
7	#17355.00	49.7 PK	68.2	-18.5	2.15 H	142	33.2	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5620.82	51.1 PK	68.2	-17.1	1.00 V	122	49.3	1.8
2	*5785.00	113.0 PK			1.00 V	122	111.6	1.4
3	*5785.00	103.5 AV			1.00 V	122	102.1	1.4
4	#5939.31	49.4 PK	68.2	-18.8	1.00 V	122	47.1	2.3
5	11570.00	53.8 PK	74.0	-20.2	1.41 V	317	42.4	11.4
6	11570.00	41.8 AV	54.0	-12.2	1.41 V	317	30.4	11.4
7	#17355.00	47.5 PK	68.2	-20.7	2.35 V	67	31.0	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5587.98	50.7 PK	68.2	-17.5	3.08 H	98	49.0	1.7
2	*5825.00	121.3 PK			3.08 H	98	119.9	1.4
3	*5825.00	110.9 AV			3.08 H	98	109.5	1.4
4	#5933.03	58.7 PK	68.2	-9.5	3.08 H	98	56.5	2.2
5	11650.00	64.5 PK	74.0	-9.5	2.45 H	27	53.2	11.3
6	11650.00	53.3 AV	54.0	-0.7	2.45 H	27	42.0	11.3
7	#17475.00	49.3 PK	68.2	-18.9	2.24 H	130	31.7	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	#5599.51	49.1 PK	68.2	-19.1	1.00 V	121	47.4	1.7
2	*5825.00	113.9 PK			1.00 V	121	112.5	1.4
3	*5825.00	104.5 AV			1.00 V	121	103.1	1.4
4	#5933.97	49.8 PK	68.2	-18.4	1.00 V	121	47.6	2.2
5	11650.00	54.1 PK	74.0	-19.9	1.38 V	295	42.8	11.3
6	11650.00	41.6 AV	54.0	-12.4	1.38 V	295	30.3	11.3
7	#17475.00	47.9 PK	68.2	-20.3	2.32 V	75	30.3	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 (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	3.27 H	83	63.7	1.0
2	5150.00	53.9 AV	54.0	-0.1	3.27 H	83	52.9	1.0
3	*5190.00	112.2 PK			3.27 H	83	111.6	0.6
4	*5190.00	101.7 AV			3.27 H	83	101.1	0.6
5	#10380.00	58.7 PK	68.2	-9.5	2.20 H	34	48.1	10.6
6	15570.00	48.6 PK	74.0	-25.4	2.34 H	137	37.0	11.6
7	15570.00	36.6 AV	54.0	-17.4	2.34 H	137	25.0	11.6
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	5150.00	57.6 PK	74.0	-16.4	1.00 V	122	56.6	1.0
2	5150.00	46.9 AV	54.0	-7.1	1.00 V	122	45.9	1.0
3	*5190.00	105.2 PK			1.00 V	122	104.6	0.6
4	*5190.00	94.9 AV			1.00 V	122	94.3	0.6
5	#10380.00	52.9 PK	68.2	-15.3	1.37 V	315	42.3	10.6
6	15570.00	48.5 PK	74.0	-25.5	2.31 V	63	36.9	11.6
7	15570.00	36.5 AV	54.0	-17.5	2.31 V	63	24.9	11.6

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	2.01 H	82	64.3	1.0
2	5150.00	53.0 AV	54.0	-1.0	2.01 H	82	52.0	1.0
3	*5230.00	116.2 PK			2.01 H	82	115.8	0.4
4	*5230.00	106.2 AV			2.01 H	82	105.8	0.4
5	5350.00	60.5 PK	74.0	-13.5	2.01 H	82	59.9	0.6
6	5350.00	43.9 AV	54.0	-10.1	2.01 H	82	43.3	0.6
7	#10460.00	57.4 PK	68.2	-10.8	2.20 H	9	46.8	10.6
8	15690.00	48.1 PK	74.0	-25.9	2.27 H	139	36.5	11.6
9	15690.00	36.3 AV	54.0	-17.7	2.27 H	139	24.7	11.6
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	*5230.00	111.4 PK			1.06 V	119	111.0	0.4
2	*5230.00	101.7 AV			1.06 V	119	101.3	0.4
3	5350.00	58.4 PK	74.0	-15.6	1.06 V	119	57.8	0.6
4	5350.00	42.9 AV	54.0	-11.1	1.06 V	119	42.3	0.6
5	#10460.00	54.0 PK	68.2	-14.2	1.32 V	296	43.4	10.6
6	15690.00	47.7 PK	74.0	-26.3	2.36 V	58	36.1	11.6
7	15690.00	36.2 AV	54.0	-17.8	2.36 V	58	24.6	11.6

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	2.10 H	86	58.5	1.0
2	5150.00	43.1 AV	54.0	-10.9	2.10 H	86	42.1	1.0
3	*5270.00	114.5 PK			2.10 H	86	114.2	0.3
4	*5270.00	105.1 AV			2.10 H	86	104.8	0.3
5	5350.00	64.8 PK	74.0	-9.2	2.10 H	86	64.2	0.6
6	5350.00	50.9 AV	54.0	-3.1	2.10 H	86	50.3	0.6
7	#10540.00	58.1 PK	68.2	-10.1	2.21 H	7	47.8	10.3
8	15810.00	48.3 PK	74.0	-25.7	2.30 H	144	37.0	11.3
9	15810.00	36.7 AV	54.0	-17.3	2.30 H	144	25.4	11.3
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	5150.00	57.6 PK	74.0	-16.4	1.03 V	110	56.6	1.0
2	5150.00	42.5 AV	54.0	-11.5	1.03 V	110	41.5	1.0
3	*5270.00	111.1 PK			1.03 V	110	110.8	0.3
4	*5270.00	101.4 AV			1.03 V	110	101.1	0.3
5	#10540.00	54.0 PK	68.2	-14.2	1.43 V	318	43.7	10.3
6	15810.00	48.0 PK	74.0	-26.0	2.35 V	75	36.7	11.3
7	15810.00	36.3 AV	54.0	-17.7	2.35 V	75	25.0	11.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	111.9 PK			1.96 H	74	111.5	0.4
2	*5310.00	100.6 AV			1.96 H	74	100.2	0.4
3	5350.00	66.4 PK	74.0	-7.6	1.96 H	74	65.8	0.6
4	5350.00	53.8 AV	54.0	-0.2	1.96 H	74	53.2	0.6
5	10620.00	58.5 PK	74.0	-15.5	2.20 H	30	48.5	10.0
6	10620.00	45.9 AV	54.0	-8.1	2.20 H	30	35.9	10.0
7	15930.00	48.4 PK	74.0	-25.6	2.30 H	142	36.7	11.7
8	15930.00	36.8 AV	54.0	-17.2	2.30 H	142	25.1	11.7
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	*5310.00	106.5 PK			1.02 V	120	106.1	0.4
2	*5310.00	95.6 AV			1.02 V	120	95.2	0.4
3	5350.00	60.7 PK	74.0	-13.3	1.02 V	120	60.1	0.6
4	5350.00	47.6 AV	54.0	-6.4	1.02 V	120	47.0	0.6
5	10620.00	53.6 PK	74.0	-20.4	1.39 V	308	43.6	10.0
6	10620.00	41.3 AV	54.0	-12.7	1.39 V	308	31.3	10.0
7	15930.00	48.2 PK	74.0	-25.8	2.32 V	58	36.5	11.7
8	15930.00	36.4 AV	54.0	-17.6	2.32 V	58	24.7	11.7

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	1.97 H	77	62.3	0.8
2	5460.00	50.1 AV	54.0	-3.9	1.97 H	77	49.3	0.8
3	#5470.00	67.8 PK	68.2	-0.4	1.97 H	77	67.0	0.8
4	*5510.00	112.5 PK			1.97 H	77	111.7	0.8
5	*5510.00	101.8 AV			1.97 H	77	101.0	0.8
6	11020.00	57.5 PK	74.0	-16.5	2.20 H	22	46.4	11.1
7	11020.00	45.2 AV	54.0	-8.8	2.20 H	22	34.1	11.1
8	#16530.00	48.3 PK	68.2	-19.9	2.26 H	141	34.4	13.9
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	5460.00	51.8 PK	74.0	-22.2	1.00 V	121	51.0	0.8
2	5460.00	42.3 AV	54.0	-11.7	1.00 V	121	41.5	0.8
3	#5470.00	55.1 PK	68.2	-13.1	1.00 V	121	54.3	0.8
4	*5510.00	105.8 PK			1.00 V	121	105.0	0.8
5	*5510.00	95.9 AV			1.00 V	121	95.1	0.8
6	11020.00	53.9 PK	74.0	-20.1	1.35 V	303	42.8	11.1
7	11020.00	41.7 AV	54.0	-12.3	1.35 V	303	30.6	11.1
8	#16530.00	47.9 PK	68.2	-20.3	2.38 V	61	34.0	13.9

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 110 : 5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	114.1 PK			1.97 H	76	113.3	0.8
2	*5550.00	104.8 AV			1.97 H	76	104.0	0.8
3	11100.00	58.5 PK	74.0	-15.5	2.25 H	24	47.7	10.8
4	11100.00	45.9 AV	54.0	-8.1	2.25 H	24	35.1	10.8
5	#16650.00	48.5 PK	68.2	-19.7	2.36 H	124	33.8	14.7
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	*5550.00	110.3 PK			1.06 V	128	109.5	0.8
2	*5550.00	100.4 AV			1.06 V	128	99.6	0.8
3	11100.00	53.4 PK	74.0	-20.6	1.34 V	303	42.6	10.8
4	11100.00	41.0 AV	54.0	-13.0	1.34 V	303	30.2	10.8
5	#16650.00	48.1 PK	68.2	-20.1	2.37 V	75	33.4	14.7

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 134 : 5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	113.7 PK			2.92 H	96	112.7	1.0
2	*5670.00	103.7 AV			2.92 H	96	102.7	1.0
3	#5725.00	67.9 PK	68.2	-0.3	2.92 H	96	66.6	1.3
4	11340.00	58.1 PK	74.0	-15.9	2.22 H	11	46.5	11.6
5	11340.00	45.7 AV	54.0	-8.3	2.22 H	11	34.1	11.6
6	#17010.00	48.1 PK	68.2	-20.1	2.34 H	142	32.2	15.9
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	*5670.00	109.8 PK			1.09 V	136	108.8	1.0
2	*5670.00	100.2 AV			1.09 V	136	99.2	1.0
3	#5725.00	63.1 PK	68.2	-5.1	1.09 V	136	61.8	1.3
4	11340.00	53.4 PK	74.0	-20.6	1.37 V	298	41.8	11.6
5	11340.00	41.3 AV	54.0	-12.7	1.37 V	298	29.7	11.6
6	#17010.00	48.1 PK	68.2	-20.1	2.28 V	65	32.2	15.9

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 142 : 5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.3 PK	74.0	-21.7	2.02 H	71	51.5	0.8
2	5460.00	40.8 AV	54.0	-13.2	2.02 H	71	40.0	0.8
3	#5470.00	53.9 PK	68.2	-14.3	2.02 H	71	53.1	0.8
4	*5710.00	114.6 PK			2.02 H	71	113.4	1.2
5	*5710.00	104.9 AV			2.02 H	71	103.7	1.2
6	#5850.00	54.0 PK	68.2	-14.2	2.02 H	71	52.7	1.3
7	11420.00	57.4 PK	74.0	-16.6	2.26 H	21	45.7	11.7
8	11420.00	45.1 AV	54.0	-8.9	2.26 H	21	33.4	11.7
9	#17130.00	47.8 PK	68.2	-20.4	2.26 H	126	31.6	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	5460.00	52.4 PK	74.0	-21.6	1.07 V	123	51.6	0.8
2	5460.00	40.9 AV	54.0	-13.1	1.07 V	123	40.1	0.8
3	#5470.00	54.5 PK	68.2	-13.7	1.07 V	123	53.7	0.8
4	*5710.00	110.2 PK			1.07 V	123	109.0	1.2
5	*5710.00	100.4 AV			1.07 V	123	99.2	1.2
6	#5850.00	53.1 PK	68.2	-15.1	1.07 V	123	51.8	1.3
7	11420.00	53.5 PK	74.0	-20.5	1.39 V	297	41.8	11.7
8	11420.00	41.4 AV	54.0	-12.6	1.39 V	297	29.7	11.7
9	#17130.00	47.7 PK	68.2	-20.5	2.30 V	70	31.5	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 (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.83	68.0 PK	68.2	-0.2	3.06 H	96	66.2	1.8
2	*5755.00	117.7 PK			3.06 H	96	116.3	1.4
3	*5755.00	106.9 AV			3.06 H	96	105.5	1.4
4	#5959.14	59.3 PK	68.2	-8.9	3.06 H	96	57.0	2.3
5	11510.00	62.2 PK	74.0	-11.8	2.45 H	44	50.5	11.7
6	11510.00	50.6 AV	54.0	-3.4	2.45 H	44	38.9	11.7
7	#17265.00	48.1 PK	68.2	-20.1	2.27 H	120	32.2	15.9
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	#5643.54	61.4 PK	68.2	-6.8	1.04 V	123	59.6	1.8
2	*5755.00	110.2 PK			1.04 V	123	108.8	1.4
3	*5755.00	99.8 AV			1.04 V	123	98.4	1.4
4	#5926.82	53.7 PK	68.2	-14.5	1.04 V	123	51.5	2.2
5	11510.00	53.9 PK	74.0	-20.1	1.32 V	296	42.2	11.7
6	11510.00	41.5 AV	54.0	-12.5	1.32 V	296	29.8	11.7
7	#17265.00	47.5 PK	68.2	-20.7	2.36 V	44	31.6	15.9

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 159 : 5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.03	64.8 PK	68.2	-3.4	3.07 H	94	63.0	1.8
2	*5795.00	117.2 PK			3.07 H	94	115.8	1.4
3	*5795.00	107.1 AV			3.07 H	94	105.7	1.4
4	#5929.11	68.0 PK	68.2	-0.2	3.07 H	94	65.8	2.2
5	11590.00	62.6 PK	74.0	-11.4	2.48 H	45	51.3	11.3
6	11590.00	50.9 AV	54.0	-3.1	2.48 H	45	39.6	11.3
7	#17385.00	48.0 PK	68.2	-20.2	2.30 H	123	31.2	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.79	60.6 PK	68.2	-7.6	1.00 V	123	58.8	1.8
2	*5795.00	111.3 PK			1.00 V	123	109.9	1.4
3	*5795.00	101.4 AV			1.00 V	123	100.0	1.4
4	#5932.37	62.4 PK	68.2	-5.8	1.00 V	123	60.2	2.2
5	11590.00	53.4 PK	74.0	-20.6	1.38 V	304	42.1	11.3
6	11590.00	41.5 AV	54.0	-12.5	1.38 V	304	30.2	11.3
7	#17385.00	48.2 PK	68.2	-20.0	2.35 V	56	31.4	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 42 : 5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.5 PK	74.0	-10.5	3.18 H	81	62.5	1.0
2	5150.00	53.7 AV	54.0	-0.3	3.18 H	81	52.7	1.0
3	*5210.00	108.1 PK			3.18 H	81	107.6	0.5
4	*5210.00	97.4 AV			3.18 H	81	96.9	0.5
5	5350.00	51.6 PK	74.0	-22.4	3.18 H	81	51.0	0.6
6	5350.00	41.8 AV	54.0	-12.2	3.18 H	81	41.2	0.6
7	#10420.00	56.9 PK	68.2	-11.3	2.30 H	28	46.3	10.6
8	15630.00	48.1 PK	74.0	-25.9	2.24 H	112	36.5	11.6
9	15630.00	36.3 AV	54.0	-17.7	2.24 H	112	24.7	11.6
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	5150.00	58.7 PK	74.0	-15.3	1.05 V	122	57.7	1.0
2	5150.00	49.0 AV	54.0	-5.0	1.05 V	122	48.0	1.0
3	*5210.00	101.3 PK			1.05 V	122	100.8	0.5
4	*5210.00	91.2 AV			1.05 V	122	90.7	0.5
5	5350.00	49.6 PK	74.0	-24.4	1.05 V	122	49.0	0.6
6	5350.00	39.8 AV	54.0	-14.2	1.05 V	122	39.2	0.6
7	#10420.00	53.7 PK	68.2	-14.5	1.34 V	300	43.1	10.6
8	15630.00	48.0 PK	74.0	-26.0	2.36 V	56	36.4	11.6
9	15630.00	36.3 AV	54.0	-17.7	2.36 V	56	24.7	11.6

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 58 : 5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.6 PK	74.0	-22.4	3.13 H	83	50.6	1.0
2	5150.00	42.3 AV	54.0	-11.7	3.13 H	83	41.3	1.0
3	*5290.00	108.2 PK			3.13 H	83	107.9	0.3
4	*5290.00	98.2 AV			3.13 H	83	97.9	0.3
5	5350.00	63.7 PK	74.0	-10.3	3.13 H	83	63.1	0.6
6	5350.00	53.6 AV	54.0	-0.4	3.13 H	83	53.0	0.6
7	#10580.00	57.4 PK	68.2	-10.8	2.22 H	23	47.4	10.0
8	15870.00	47.7 PK	74.0	-26.3	2.23 H	111	36.1	11.6
9	15870.00	36.0 AV	54.0	-18.0	2.23 H	111	24.4	11.6
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	5150.00	49.1 PK	74.0	-24.9	1.01 V	122	48.1	1.0
2	5150.00	39.7 AV	54.0	-14.3	1.01 V	122	38.7	1.0
3	*5290.00	101.8 PK			1.01 V	122	101.5	0.3
4	*5290.00	91.5 AV			1.01 V	122	91.2	0.3
5	5350.00	57.4 PK	74.0	-16.6	1.01 V	122	56.8	0.6
6	5350.00	48.0 AV	54.0	-6.0	1.01 V	122	47.4	0.6
7	#10580.00	53.3 PK	68.2	-14.9	1.40 V	316	43.3	10.0
8	15870.00	47.5 PK	74.0	-26.5	2.31 V	75	35.9	11.6
9	15870.00	36.0 AV	54.0	-18.0	2.31 V	75	24.4	11.6

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 106 : 5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.91	63.2 PK	74.0	-10.8	2.01 H	75	62.4	0.8
2	5457.91	53.4 AV	54.0	-0.6	2.01 H	75	52.6	0.8
3	#5470.00	65.1 PK	68.2	-3.1	2.01 H	75	64.3	0.8
4	*5530.00	107.9 PK			2.01 H	75	107.1	0.8
5	*5530.00	98.0 AV			2.01 H	75	97.2	0.8
6	11060.00	57.6 PK	74.0	-16.4	2.23 H	14	46.6	11.0
7	11060.00	45.0 AV	54.0	-9.0	2.23 H	14	34.0	11.0
8	#16590.00	47.5 PK	68.2	-20.7	2.29 H	133	33.2	14.3
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	5460.00	55.7 PK	74.0	-18.3	1.03 V	122	54.9	0.8
2	5460.00	46.6 AV	54.0	-7.4	1.03 V	122	45.8	0.8
3	#5470.00	56.2 PK	68.2	-12.0	1.03 V	122	55.4	0.8
4	*5530.00	101.8 PK			1.03 V	122	101.0	0.8
5	*5530.00	91.5 AV			1.03 V	122	90.7	0.8
6	11060.00	53.1 PK	74.0	-20.9	1.35 V	301	42.1	11.0
7	11060.00	41.0 AV	54.0	-13.0	1.35 V	301	30.0	11.0
8	#16590.00	47.1 PK	68.2	-21.1	2.33 V	65	32.8	14.3

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.1 PK	74.0	-9.9	2.14 H	98	63.3	0.8
2	5460.00	53.5 AV	54.0	-0.5	2.14 H	98	52.7	0.8
3	#5470.00	66.4 PK	68.2	-1.8	2.14 H	98	65.6	0.8
4	*5610.00	112.7 PK			2.14 H	98	111.7	1.0
5	*5610.00	101.1 AV			2.14 H	98	100.1	1.0
6	#5725.00	64.7 PK	68.2	-3.5	2.14 H	98	63.4	1.3
7	11220.00	57.1 PK	74.0	-16.9	2.20 H	18	46.1	11.0
8	11220.00	44.9 AV	54.0	-9.1	2.20 H	18	33.9	11.0
9	#16830.00	47.5 PK	68.2	-20.7	2.30 H	116	32.3	15.2
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	5460.00	60.7 PK	74.0	-13.3	1.01 V	131	59.9	0.8
2	5460.00	50.9 AV	54.0	-3.1	1.01 V	131	50.1	0.8
3	#5470.00	63.1 PK	68.2	-5.1	1.01 V	131	62.3	0.8
4	*5610.00	104.8 PK			1.01 V	131	103.8	1.0
5	*5610.00	94.6 AV			1.01 V	131	93.6	1.0
6	#5725.00	61.2 PK	68.2	-7.0	1.01 V	131	59.9	1.3
7	11220.00	53.7 PK	74.0	-20.3	1.40 V	306	42.7	11.0
8	11220.00	41.8 AV	54.0	-12.2	1.40 V	306	30.8	11.0
9	#16830.00	48.2 PK	68.2	-20.0	2.32 V	64	33.0	15.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 138 : 5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	3.12 H	95	58.1	0.8
2	5460.00	48.0 AV	54.0	-6.0	3.12 H	95	47.2	0.8
3	#5470.00	64.5 PK	68.2	-3.7	3.12 H	95	63.7	0.8
4	*5690.00	112.9 PK			3.12 H	95	111.9	1.0
5	*5690.00	102.5 AV			3.12 H	95	101.5	1.0
6	#5850.00	65.8 PK	68.2	-2.4	3.12 H	95	64.5	1.3
7	11380.00	57.3 PK	74.0	-16.7	2.25 H	24	45.6	11.7
8	11380.00	44.9 AV	54.0	-9.1	2.25 H	24	33.2	11.7
9	#17070.00	47.9 PK	68.2	-20.3	2.22 H	123	31.7	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	5460.00	56.1 PK	74.0	-17.9	1.04 V	141	55.3	0.8
2	5460.00	45.2 AV	54.0	-8.8	1.04 V	141	44.4	0.8
3	#5470.00	61.3 PK	68.2	-6.9	1.04 V	141	60.5	0.8
4	*5690.00	106.1 PK			1.04 V	141	105.1	1.0
5	*5690.00	95.9 AV			1.04 V	141	94.9	1.0
6	#5850.00	61.9 PK	68.2	-6.3	1.04 V	141	60.6	1.3
7	11380.00	53.7 PK	74.0	-20.3	1.34 V	318	42.0	11.7
8	11380.00	41.5 AV	54.0	-12.5	1.34 V	318	29.8	11.7
9	#17070.00	47.7 PK	68.2	-20.5	2.33 V	68	31.5	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 (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.15	67.1 PK	68.2	-1.1	1.20 H	58	65.3	1.8
2	*5775.00	109.3 PK			1.20 H	58	107.9	1.4
3	*5775.00	98.4 AV			1.20 H	58	97.0	1.4
4	#5934.05	64.9 PK	68.2	-3.3	1.20 H	58	62.7	2.2
5	11550.00	57.0 PK	74.0	-17.0	2.30 H	25	45.6	11.4
6	11550.00	44.8 AV	54.0	-9.2	2.30 H	25	33.4	11.4
7	#17325.00	48.0 PK	68.2	-20.2	2.25 H	129	31.8	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	#5613.58	62.0 PK	68.2	-6.2	1.34 V	318	60.3	1.7
2	*5775.00	104.1 PK			1.34 V	318	102.7	1.4
3	*5775.00	94.0 AV			1.34 V	318	92.6	1.4
4	#5927.77	55.4 PK	68.2	-12.8	1.34 V	318	53.2	2.2
5	11550.00	53.3 PK	74.0	-20.7	1.32 V	321	41.9	11.4
6	11550.00	41.3 AV	54.0	-12.7	1.32 V	321	29.9	11.4
7	#17325.00	47.7 PK	68.2	-20.5	2.28 V	69	31.5	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 (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5145.16	64.2 PK	74.0	-9.8	3.18 H	84	63.2	1.0
2	5145.16	52.7 AV	54.0	-1.3	3.18 H	84	51.7	1.0
3	*5250.00	104.0 PK			3.18 H	84	103.7	0.3
4	*5250.00	93.4 AV			3.18 H	84	93.1	0.3
5	5355.83	61.9 PK	74.0	-12.1	3.18 H	84	61.3	0.6
6	5355.83	51.5 AV	54.0	-2.5	3.18 H	84	50.9	0.6
7	#10500.00	57.1 PK	68.2	-11.1	2.24 H	8	46.6	10.5
8	15750.00	47.4 PK	74.0	-26.6	2.22 H	121	35.9	11.5
9	15750.00	35.8 AV	54.0	-18.2	2.22 H	121	24.3	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5127.30	60.1 PK	74.0	-13.9	1.04 V	119	59.0	1.1
2	5127.30	47.1 AV	54.0	-6.9	1.04 V	119	46.0	1.1
3	*5250.00	96.3 PK			1.04 V	119	96.0	0.3
4	*5250.00	87.5 AV			1.04 V	119	87.2	0.3
5	5354.70	57.3 PK	74.0	-16.7	1.04 V	119	56.7	0.6
6	5354.70	46.9 AV	54.0	-7.1	1.04 V	119	46.3	0.6
7	#10500.00	53.1 PK	68.2	-15.1	1.42 V	302	42.6	10.5
8	15750.00	47.8 PK	74.0	-26.2	2.37 V	72	36.3	11.5
9	15750.00	36.0 AV	54.0	-18.0	2.37 V	72	24.5	11.5

Remarks:

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

RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5450.96	63.1 PK	74.0	-10.9	2.02 H	96	62.3	0.8
2	5450.96	53.7 AV	54.0	-0.3	2.02 H	96	52.9	0.8
3	#5463.93	64.5 PK	68.2	-3.7	2.02 H	96	63.7	0.8
4	*5570.00	106.0 PK			2.02 H	96	105.2	0.8
5	*5570.00	95.3 AV			2.02 H	96	94.5	0.8
6	#5726.96	67.4 PK	68.2	-0.8	2.02 H	96	66.1	1.3
7	11140.00	56.8 PK	74.0	-17.2	2.24 H	15	45.9	10.9
8	11140.00	44.6 AV	54.0	-9.4	2.24 H	15	33.7	10.9
9	#16710.00	47.8 PK	68.2	-20.4	2.27 H	121	32.7	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5446.90	59.8 PK	74.0	-14.2	1.00 V	125	59.0	0.8
2	5446.90	46.9 AV	54.0	-7.1	1.00 V	125	46.1	0.8
3	#5468.00	56.1 PK	68.2	-12.1	1.00 V	125	55.3	0.8
4	*5570.00	97.4 PK			1.00 V	125	96.6	0.8
5	*5570.00	87.8 AV			1.00 V	125	87.0	0.8
6	#5726.80	53.5 PK	68.2	-14.7	1.00 V	125	52.2	1.3
7	11140.00	53.3 PK	74.0	-20.7	1.35 V	317	42.4	10.9
8	11140.00	41.0 AV	54.0	-13.0	1.35 V	317	30.1	10.9
9	#16710.00	47.6 PK	68.2	-20.6	2.37 V	44	32.5	15.1

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5137.70	73.3 PK	74.0	-0.7	2.02 H	81	72.3	1.0
2	5137.70	51.8 AV	54.0	-2.2	2.02 H	81	50.8	1.0
3	*5180.00	121.8 PK			2.02 H	81	121.1	0.7
4	*5180.00	113.5 AV			2.02 H	81	112.8	0.7
5	#10360.00	59.8 PK	68.2	-8.4	1.77 H	41	49.3	10.5
6	15540.00	50.1 PK	74.0	-23.9	2.25 H	153	38.6	11.5
7	15540.00	38.2 AV	54.0	-15.8	2.25 H	153	26.7	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5137.75	63.4 PK	74.0	-10.6	1.05 V	111	62.4	1.0
2	5137.75	46.1 AV	54.0	-7.9	1.05 V	111	45.1	1.0
3	*5180.00	115.2 PK			1.05 V	111	114.5	0.7
4	*5180.00	106.2 AV			1.05 V	111	105.5	0.7
5	#10360.00	66.9 PK	68.2	-1.3	1.70 V	115	56.4	10.5
6	15540.00	50.0 PK	74.0	-24.0	2.23 V	140	38.5	11.5
7	15540.00	38.1 AV	54.0	-15.9	2.23 V	140	26.6	11.5

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	122.2 PK			1.99 H	85	121.8	0.4
2	*5320.00	113.7 AV			1.99 H	85	113.3	0.4
3	5361.62	69.5 PK	74.0	-4.5	1.99 H	85	68.9	0.6
4	5361.62	51.8 AV	54.0	-2.2	1.99 H	85	51.2	0.6
5	10640.00	68.4 PK	74.0	-5.6	1.76 H	40	58.3	10.1
6	10640.00	53.4 AV	54.0	-0.6	1.76 H	40	43.3	10.1
7	15960.00	49.7 PK	74.0	-24.3	2.27 H	142	37.9	11.8
8	15960.00	38.0 AV	54.0	-16.0	2.27 H	142	26.2	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.5 PK			1.92 V	39	116.1	0.4
2	*5320.00	107.7 AV			1.92 V	39	107.3	0.4
3	5364.20	61.4 PK	74.0	-12.6	1.92 V	39	60.9	0.5
4	5364.20	44.7 AV	54.0	-9.3	1.92 V	39	44.2	0.5
5	10640.00	66.3 PK	74.0	-7.7	1.74 V	112	56.2	10.1
6	10640.00	51.3 AV	54.0	-2.7	1.74 V	112	41.2	10.1
7	15960.00	49.7 PK	74.0	-24.3	2.28 V	132	37.9	11.8
8	15960.00	37.8 AV	54.0	-16.2	2.28 V	132	26.0	11.8

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.55	72.1 PK	74.0	-1.9	2.00 H	97	71.3	0.8
2	5457.55	53.7 AV	54.0	-0.3	2.00 H	97	52.9	0.8
3	#5466.80	61.7 PK	68.2	-6.5	2.00 H	97	60.9	0.8
4	*5500.00	123.7 PK			2.00 H	97	122.9	0.8
5	*5500.00	113.6 AV			2.00 H	97	112.8	0.8
6	11000.00	68.0 PK	74.0	-6.0	2.49 H	40	56.9	11.1
7	11000.00	52.5 AV	54.0	-1.5	2.49 H	40	41.4	11.1
8	#16500.00	50.0 PK	68.2	-18.2	2.22 H	146	36.2	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.60	69.1 PK	74.0	-4.9	1.92 V	41	68.3	0.8
2	5457.60	47.7 AV	54.0	-6.3	1.92 V	41	46.9	0.8
3	#5466.80	59.9 PK	68.2	-8.3	1.92 V	41	59.1	0.8
4	*5500.00	117.5 PK			1.92 V	41	116.7	0.8
5	*5500.00	108.6 AV			1.92 V	41	107.8	0.8
6	11000.00	67.1 PK	74.0	-6.9	1.71 V	125	56.0	11.1
7	11000.00	51.7 AV	54.0	-2.3	1.71 V	125	40.6	11.1
8	#16500.00	50.4 PK	68.2	-17.8	2.20 V	125	36.6	13.8

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	124.0 PK			2.96 H	94	122.8	1.2
2	*5700.00	114.7 AV			2.96 H	94	113.5	1.2
3	#5725.00	67.5 PK	68.2	-0.7	2.96 H	94	66.2	1.3
4	11400.00	67.9 PK	74.0	-6.1	2.52 H	52	56.2	11.7
5	11400.00	52.3 AV	54.0	-1.7	2.52 H	52	40.6	11.7
6	#17100.00	49.9 PK	68.2	-18.3	2.18 H	135	33.6	16.3
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	*5700.00	117.9 PK			1.95 V	32	116.7	1.2
2	*5700.00	109.1 AV			1.95 V	32	107.9	1.2
3	#5725.00	64.8 PK	68.2	-3.4	1.95 V	32	63.5	1.3
4	11400.00	67.2 PK	74.0	-6.8	1.66 V	138	55.5	11.7
5	11400.00	51.7 AV	54.0	-2.3	1.66 V	138	40.0	11.7
6	#17100.00	50.4 PK	68.2	-17.8	2.15 V	126	34.1	16.3

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 20MHz Preamble 802.11ax (RU26)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5576.87	59.8 PK	68.2	-8.4	3.05 H	96	58.1	1.7
2	*5745.00	119.9 PK			3.05 H	96	118.5	1.4
3	*5745.00	114.5 AV			3.05 H	96	113.1	1.4
4	#5969.73	50.1 PK	68.2	-18.1	3.05 H	96	47.8	2.3
5	11490.00	68.4 PK	74.0	-5.6	2.07 H	50	56.7	11.7
6	11490.00	53.6 AV	54.0	-0.4	2.07 H	50	41.9	11.7
7	#17235.00	50.1 PK	68.2	-18.1	2.15 H	137	34.2	15.9
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	#5577.45	53.8 PK	68.2	-14.4	1.99 V	42	53.0	0.8
2	*5745.00	115.3 PK			1.99 V	42	113.9	1.4
3	*5745.00	106.6 AV			1.99 V	42	105.2	1.4
4	#6013.93	48.9 PK	68.2	-19.3	1.99 V	42	47.1	1.8
5	11490.00	66.9 PK	74.0	-7.1	1.70 V	114	55.2	11.7
6	11490.00	51.7 AV	54.0	-2.3	1.70 V	114	40.0	11.7
7	#17235.00	50.1 PK	68.2	-18.1	2.17 V	139	34.2	15.9

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 20MHz Preamble 802.11ax (RU26)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.99	51.0 PK	68.2	-17.2	3.06 H	95	49.2	1.8
2	*5825.00	120.5 PK			3.06 H	95	119.1	1.4
3	*5825.00	114.3 AV			3.06 H	95	112.9	1.4
4	#5935.88	57.4 PK	68.2	-10.8	3.06 H	95	55.2	2.2
5	11650.00	68.4 PK	74.0	-5.6	2.09 H	50	57.1	11.3
6	11650.00	53.7 AV	54.0	-0.3	2.09 H	50	42.4	11.3
7	#17475.00	50.1 PK	68.2	-18.1	2.11 H	139	32.5	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	#5619.35	49.2 PK	68.2	-19.0	1.02 V	39	48.2	1.0
2	*5825.00	115.3 PK			1.02 V	39	113.9	1.4
3	*5825.00	107.1 AV			1.02 V	39	105.7	1.4
4	#5993.83	50.7 PK	68.2	-17.5	1.02 V	39	49.0	1.7
5	11650.00	67.3 PK	74.0	-6.7	1.73 V	131	56.0	11.3
6	11650.00	51.7 AV	54.0	-2.3	1.73 V	131	40.4	11.3
7	#17475.00	49.9 PK	68.2	-18.3	2.20 V	109	32.3	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.

TX_High

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	124.3 PK			3.08 H	99	123.9	0.4
2	*5240.00	116.1 AV			3.08 H	99	115.7	0.4
3	5408.16	53.8 PK	74.0	-20.2	3.08 H	99	53.2	0.6
4	5408.16	46.8 AV	54.0	-7.2	3.08 H	99	46.2	0.6
5	#10480.00	62.2 PK	68.2	-6.0	2.16 H	42	51.7	10.5
6	15720.00	50.3 PK	74.0	-23.7	2.12 H	142	38.8	11.5
7	15720.00	38.3 AV	54.0	-15.7	2.12 H	142	26.8	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	115.9 PK			1.03 V	139	115.5	0.4
2	*5240.00	107.4 AV			1.03 V	139	107.0	0.4
3	5407.90	50.6 PK	74.0	-23.4	1.03 V	139	50.0	0.6
4	5407.90	41.2 AV	54.0	-12.8	1.03 V	139	40.6	0.6
5	#10480.00	67.9 PK	68.2	-0.3	1.74 V	124	57.4	10.5
6	15720.00	49.7 PK	74.0	-24.3	2.26 V	96	38.2	11.5
7	15720.00	37.6 AV	54.0	-16.4	2.26 V	96	26.1	11.5

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.76	50.6 PK	68.2	-17.6	3.01 H	95	48.8	1.8
2	*5825.00	124.0 PK			3.01 H	95	122.6	1.4
3	*5825.00	113.1 AV			3.01 H	95	111.7	1.4
4	#5992.77	54.7 PK	68.2	-13.5	3.01 H	95	52.4	2.3
5	11650.00	66.5 PK	74.0	-7.5	2.46 H	47	55.2	11.3
6	11650.00	53.3 AV	54.0	-0.7	2.46 H	47	42.0	11.3
7	#17475.00	47.5 PK	68.2	-20.7	2.16 H	155	29.9	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	#5626.69	49.9 PK	68.2	-18.3	1.06 V	40	48.9	1.0
2	*5825.00	114.4 PK			1.06 V	40	113.0	1.4
3	*5825.00	105.4 AV			1.06 V	40	104.0	1.4
4	#5992.05	50.4 PK	68.2	-17.8	1.06 V	40	48.7	1.7
5	11650.00	57.1 PK	74.0	-16.9	1.78 V	141	45.8	11.3
6	11650.00	47.9 AV	54.0	-6.1	1.78 V	141	36.6	11.3
7	#17475.00	49.0 PK	68.2	-19.2	2.19 V	94	31.4	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.

TX_High

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.8 PK	74.0	-3.2	3.16 H	96	69.8	1.0
2	5150.00	53.3 AV	54.0	-0.7	3.16 H	96	52.3	1.0
3	*5180.00	119.7 PK			3.16 H	96	119.0	0.7
4	*5180.00	108.8 AV			3.16 H	96	108.1	0.7
5	#10360.00	54.0 PK	68.2	-14.2	2.15 H	37	43.5	10.5
6	15540.00	47.0 PK	74.0	-27.0	2.14 H	169	35.5	11.5
7	15540.00	34.9 AV	54.0	-19.1	2.14 H	169	23.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.06 V	136	59.2	1.0
2	5150.00	45.8 AV	54.0	-8.2	1.06 V	136	44.8	1.0
3	*5180.00	110.2 PK			1.06 V	136	109.5	0.7
4	*5180.00	100.2 AV			1.06 V	136	99.5	0.7
5	#10360.00	52.9 PK	68.2	-15.3	1.76 V	138	42.4	10.5
6	15540.00	48.8 PK	74.0	-25.2	2.20 V	104	37.3	11.5
7	15540.00	37.0 AV	54.0	-17.0	2.20 V	104	25.5	11.5

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	120.5 PK			3.03 H	98	120.1	0.4
2	*5320.00	109.6 AV			3.03 H	98	109.2	0.4
3	5350.00	67.5 PK	74.0	-6.5	3.03 H	98	66.9	0.6
4	5350.00	53.5 AV	54.0	-0.5	3.03 H	98	52.9	0.6
5	10640.00	63.2 PK	74.0	-10.8	2.57 H	39	53.1	10.1
6	10640.00	51.2 AV	54.0	-2.8	2.57 H	39	41.1	10.1
7	15960.00	46.7 PK	74.0	-27.3	2.11 H	179	34.9	11.8
8	15960.00	34.5 AV	54.0	-19.5	2.11 H	179	22.7	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.4 PK			1.95 V	40	112.0	0.4
2	*5320.00	102.7 AV			1.95 V	40	102.3	0.4
3	5350.00	58.2 PK	74.0	-15.8	1.95 V	40	57.6	0.6
4	5350.00	44.7 AV	54.0	-9.3	1.95 V	40	44.1	0.6
5	10640.00	53.3 PK	74.0	-20.7	1.74 V	130	43.2	10.1
6	10640.00	41.1 AV	54.0	-12.9	1.74 V	130	31.0	10.1
7	15960.00	49.4 PK	74.0	-24.6	2.24 V	95	37.6	11.8
8	15960.00	37.3 AV	54.0	-16.7	2.24 V	95	25.5	11.8

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.5 PK	74.0	-19.5	3.09 H	97	53.7	0.8
2	5460.00	45.6 AV	54.0	-8.4	3.09 H	97	44.8	0.8
3	#5470.00	67.7 PK	68.2	-0.5	3.09 H	97	66.9	0.8
4	*5500.00	118.8 PK			3.09 H	97	118.0	0.8
5	*5500.00	108.7 AV			3.09 H	97	107.9	0.8
6	11000.00	53.7 PK	74.0	-20.3	2.19 H	22	42.6	11.1
7	11000.00	42.3 AV	54.0	-11.7	2.19 H	22	31.2	11.1
8	#16500.00	47.4 PK	68.2	-20.8	2.15 H	179	33.6	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.87 V	39	50.6	0.8
2	5460.00	41.5 AV	54.0	-12.5	1.87 V	39	40.7	0.8
3	#5470.00	61.3 PK	68.2	-6.9	1.87 V	39	60.5	0.8
4	*5500.00	111.8 PK			1.87 V	39	111.0	0.8
5	*5500.00	102.1 AV			1.87 V	39	101.3	0.8
6	11000.00	52.8 PK	74.0	-21.2	1.79 V	154	41.7	11.1
7	11000.00	40.7 AV	54.0	-13.3	1.79 V	154	29.6	11.1
8	#16500.00	48.5 PK	68.2	-19.7	2.19 V	104	34.7	13.8

Remarks:

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

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	119.3 PK			3.08 H	93	118.1	1.2
2	*5700.00	109.0 AV			3.08 H	93	107.8	1.2
3	#5725.00	67.7 PK	68.2	-0.5	3.08 H	93	66.4	1.3
4	11400.00	54.2 PK	74.0	-19.8	2.15 H	24	42.5	11.7
5	11400.00	42.7 AV	54.0	-11.3	2.15 H	24	31.0	11.7
6	#17100.00	47.3 PK	68.2	-20.9	2.09 H	159	31.0	16.3
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	*5700.00	111.7 PK			1.86 V	23	110.5	1.2
2	*5700.00	101.9 AV			1.86 V	23	100.7	1.2
3	#5725.00	65.2 PK	68.2	-3.0	1.86 V	23	63.9	1.3
4	11400.00	53.1 PK	74.0	-20.9	1.72 V	149	41.4	11.7
5	11400.00	40.8 AV	54.0	-13.2	1.72 V	149	29.1	11.7
6	#17100.00	49.2 PK	68.2	-19.0	2.23 V	103	32.9	16.3

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 20MHz Preamble 802.11ax (RU106)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5580.96	57.3 PK	68.2	-10.9	3.08 H	95	55.6	1.7
2	*5745.00	120.7 PK			3.08 H	95	119.3	1.4
3	*5745.00	111.2 AV			3.08 H	95	109.8	1.4
4	#5935.93	51.0 PK	68.2	-17.2	3.08 H	95	48.8	2.2
5	11490.00	64.8 PK	74.0	-9.2	2.54 H	31	53.1	11.7
6	11490.00	53.2 AV	54.0	-0.8	2.54 H	31	41.5	11.7
7	#17235.00	46.4 PK	68.2	-21.8	2.19 H	186	30.5	15.9
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	#5581.75	53.1 PK	68.2	-15.1	1.99 V	42	52.3	0.8
2	*5745.00	111.7 PK			1.99 V	42	110.3	1.4
3	*5745.00	102.7 AV			1.99 V	42	101.3	1.4
4	#5992.18	49.2 PK	68.2	-19.0	1.99 V	42	47.5	1.7
5	11490.00	62.9 PK	74.0	-11.1	1.75 V	148	51.2	11.7
6	11490.00	50.8 AV	54.0	-3.2	1.75 V	148	39.1	11.7
7	#17235.00	48.3 PK	68.2	-19.9	2.20 V	93	32.4	15.9

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 20MHz Preamble 802.11ax (RU106)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.87	50.7 PK	68.2	-17.5	2.97 H	95	48.9	1.8
2	*5825.00	120.7 PK			2.97 H	95	119.3	1.4
3	*5825.00	111.6 AV			2.97 H	95	110.2	1.4
4	#5994.56	53.9 PK	68.2	-14.3	2.97 H	95	51.6	2.3
5	11650.00	65.0 PK	74.0	-9.0	2.49 H	46	53.7	11.3
6	11650.00	53.4 AV	54.0	-0.6	2.49 H	46	42.1	11.3
7	#17475.00	47.1 PK	68.2	-21.1	2.15 H	180	29.5	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	#5589.38	49.2 PK	68.2	-19.0	1.02 V	40	48.3	0.9
2	*5825.00	113.6 PK			1.02 V	40	112.2	1.4
3	*5825.00	103.3 AV			1.02 V	40	101.9	1.4
4	#5988.05	50.0 PK	68.2	-18.2	1.02 V	40	48.3	1.7
5	11650.00	63.1 PK	74.0	-10.9	1.69 V	156	51.8	11.3
6	11650.00	51.1 AV	54.0	-2.9	1.69 V	156	39.8	11.3
7	#17475.00	48.0 PK	68.2	-20.2	2.23 V	102	30.4	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.

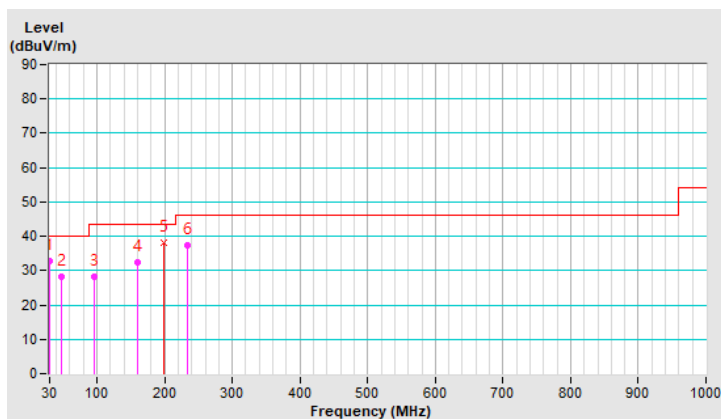
Below 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.45	32.8 QP	40.0	-7.2	1.00 H	163	46.4	-13.6
2	47.98	28.1 QP	40.0	-11.9	1.00 H	248	40.7	-12.6
3	95.01	28.2 QP	43.5	-15.3	1.00 H	267	45.8	-17.6
4	159.15	32.5 QP	43.5	-11.0	1.00 H	266	44.5	-12.0
5	199.17	38.1 QP	43.5	-5.4	1.00 H	306	53.2	-15.1
6	232.73	37.4 QP	46.0	-8.6	1.50 H	226	51.5	-14.1

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 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.

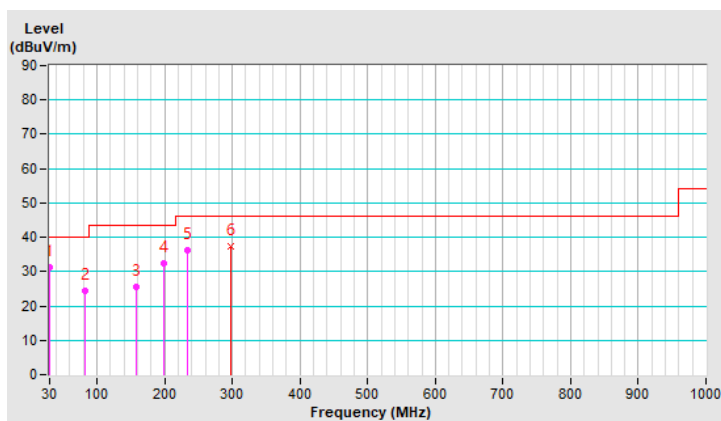


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.21	31.2 QP	40.0	-8.8	1.00 V	211	44.8	-13.6
2	83.11	24.3 QP	40.0	-15.7	1.50 V	267	42.3	-18.0
3	158.18	25.5 QP	43.5	-18.0	1.00 V	286	37.5	-12.0
4	199.61	32.5 QP	43.5	-11.0	2.00 V	263	47.6	-15.1
5	232.89	36.1 QP	46.0	-9.9	1.00 V	275	50.2	-14.1
6	298.67	37.2 QP	46.0	-8.8	1.00 V	162	48.2	-11.0

Remarks:

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

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 NA	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: 2022/1/12

4.2.3 Test Procedure

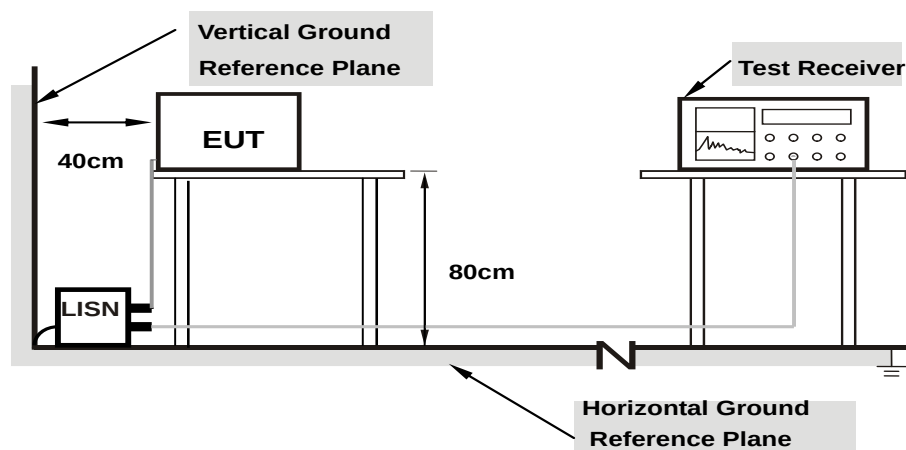
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Condition

Same as 4.1.6.

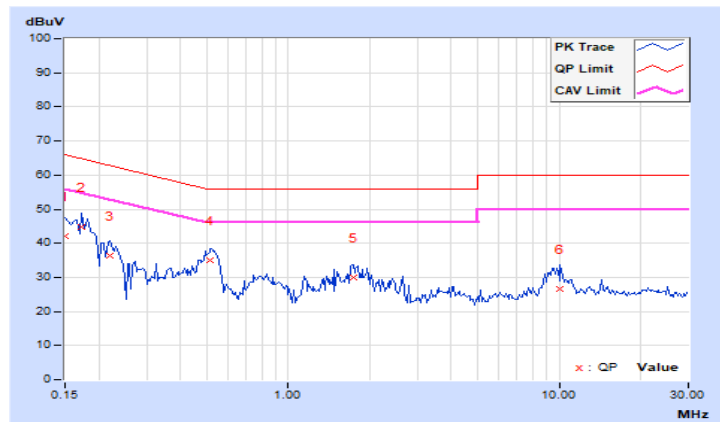
4.2.7 Test Results

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
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	31.93	20.05	41.98	30.10	66.00	56.00	-24.02	-25.90
2	0.17344	10.05	34.70	24.26	44.75	34.31	64.79	54.79	-20.04	-20.48
3	0.22031	10.05	26.26	13.79	36.31	23.84	62.81	52.81	-26.50	-28.97
4	0.51719	10.07	24.84	14.87	34.91	24.94	56.00	46.00	-21.09	-21.06
5	1.73438	10.15	19.94	11.01	30.09	21.16	56.00	46.00	-25.91	-24.84
6	10.02344	10.61	15.84	10.31	26.45	20.92	60.00	50.00	-33.55	-29.08

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

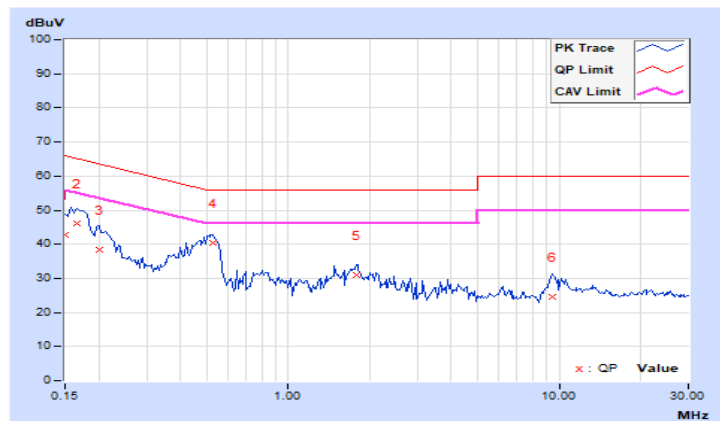


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

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	32.74	19.35	42.76	29.37	66.00	56.00	-23.24	-26.63
2	0.16562	10.02	36.03	25.98	46.05	36.00	65.18	55.18	-19.13	-19.18
3	0.20078	10.03	28.24	13.55	38.27	23.58	63.58	53.58	-25.31	-30.00
4	0.52500	10.05	30.46	22.77	40.51	32.82	56.00	46.00	-15.49	-13.18
5	1.78125	10.12	20.84	12.51	30.96	22.63	56.00	46.00	-25.04	-23.37
6	9.44922	10.46	14.27	7.35	24.73	17.81	60.00	50.00	-35.27	-32.19

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

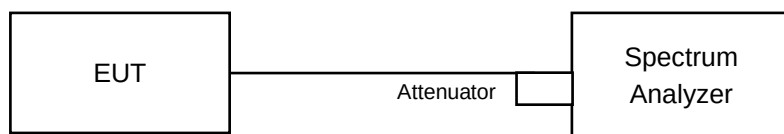
Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Client device	250mW (24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

*B is the 26 dB emission bandwidth in megahertz

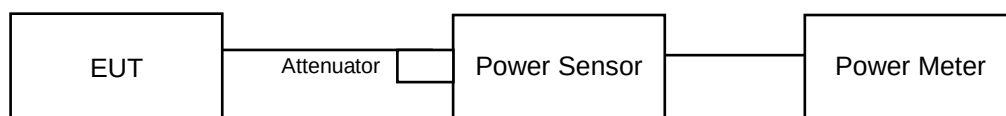
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

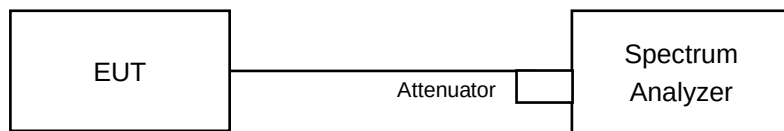
For channel straddling 5250MHz & 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5250MHz & 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \times$ Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Results

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	132.739	21.23	24	Pass
40	5200	116.95	20.68	24	Pass
48	5240	124.738	20.96	24	Pass
52	5260	115.08	20.61	24	Pass
60	5300	116.413	20.66	24	Pass
64	5320	113.501	20.55	24	Pass
100	5500	125.026	20.97	24	Pass
116	5580	126.765	21.03	24	Pass
140	5700	115.878	20.64	24	Pass
*144 (U-NII-2C)	5720	105.016	20.21	24	Pass
*144 (U-NII-3)	5720	18.761	12.73	30	Pass
149	5745	176.198	22.46	30	Pass
157	5785	175.792	22.45	30	Pass
165	5825	177.419	22.49	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	28.72	25.58 > 24
60	5300	28.42	25.53 > 24
64	5320	27.51	25.39 > 24
100	5500	37.43	26.73 > 24
116	5580	29.7	25.72 > 24
140	5700	29.14	25.64 > 24
144 (U-NII-2C)	5720	22.97	24.61 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	92.257	19.65	24	Pass
40	5200	138.995	21.43	24	Pass
48	5240	115.08	20.61	24	Pass
52	5260	113.763	20.56	24	Pass
60	5300	109.648	20.40	24	Pass
64	5320	99.083	19.96	24	Pass
100	5500	86.896	19.39	24	Pass
116	5580	115.345	20.62	24	Pass
140	5700	73.451	18.66	24	Pass
*144 (U-NII-2C)	5720	98.847	19.95	24	Pass
*144 (U-NII-3)	5720	21.378	13.30	30	Pass
149	5745	132.13	21.21	30	Pass
157	5785	132.13	21.21	30	Pass
165	5825	136.773	21.36	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	28.94	25.61 > 24
60	5300	35.6	26.51 > 24
64	5320	26.23	25.18 > 24
100	5500	27.48	25.39 > 24
116	5580	36.83	26.66 > 24
140	5700	22.1	24.44 > 24
144 (U-NII-2C)	5720	20.75	24.17 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	57.28	17.58	24	Pass
46	5230	115.08	20.61	24	Pass
54	5270	141.906	21.52	24	Pass
62	5310	72.946	18.63	24	Pass
102	5510	64.565	18.10	24	Pass
110	5550	142.889	21.55	24	Pass
134	5670	98.855	19.95	24	Pass
*142 (U-NII-2C)	5710	126.497	21.02	24	Pass
*142 (U-NII-3)	5710	10.118	10.05	30	Pass
151	5755	138.995	21.43	30	Pass
159	5795	139.316	21.44	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	70.59	29.48 > 24
62	5310	41.16	27.14 > 24
102	5510	41.25	27.15 > 24
110	5550	73.76	29.67 > 24
134	5670	63	28.99 > 24
142 (U-NII-2C)	5710	51.01	28.07 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	38.548	15.86	24	Pass
58	5290	49.774	16.97	24	Pass
106	5530	47.973	16.81	24	Pass
122	5610	123.027	20.90	24	Pass
*138 (U-NII-2C)	5690	148.196	21.71	24	Pass
*138 (U-NII-3)	5690	5.531	7.43	30	Pass
155	5775	118.032	20.72	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	83.19	30.2 > 24
106	5530	81.31	30.1 > 24
122	5610	161.36	33.07 > 24
138 (U-NII-2C)	5690	111.54	31.47 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	15.555	11.92	24	Pass
*50 (U-NII-2A)	5250	15.808	11.99	24	Pass
114	5570	37.068	15.69	24	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.39	30.15 > 24
114	5570	165.84	33.19 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	98.628	19.94	24	Pass
40	5200	147.231	21.68	24	Pass
48	5240	120.781	20.82	24	Pass
52	5260	119.95	20.79	24	Pass
60	5300	118.577	20.74	24	Pass
64	5320	102.802	20.12	24	Pass
100	5500	92.47	19.66	24	Pass
116	5580	125.314	20.98	24	Pass
140	5700	78.524	18.95	24	Pass
*144 (U-NII-2C)	5720	106.406	20.27	24	Pass
*144 (U-NII-3)	5720	23.44	13.70	30	Pass
149	5745	143.219	21.56	30	Pass
157	5785	142.889	21.55	30	Pass
165	5825	141.579	21.51	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	28.94	25.61 > 24
60	5300	35.6	26.51 > 24
64	5320	26.23	25.18 > 24
100	5500	27.48	25.39 > 24
116	5580	36.83	26.66 > 24
140	5700	22.1	24.44 > 24
144 (U-NII-2C)	5720	20.75	24.17 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	59.841	17.77	24	Pass
46	5230	124.738	20.96	24	Pass
54	5270	154.525	21.89	24	Pass
62	5310	76.56	18.84	24	Pass
102	5510	68.391	18.35	24	Pass
110	5550	159.221	22.02	24	Pass
134	5670	102.589	20.11	24	Pass
*142 (U-NII-2C)	5710	137.114	21.37	24	Pass
*142 (U-NII-3)	5710	10.816	10.34	30	Pass
151	5755	145.881	21.64	30	Pass
159	5795	146.218	21.65	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	70.59	29.48 > 24
62	5310	41.16	27.14 > 24
102	5510	41.25	27.15 > 24
110	5550	73.76	29.67 > 24
134	5670	63	28.99 > 24
142 (U-NII-2C)	5710	51.01	28.07 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	42.073	16.24	24	Pass
58	5290	53.088	17.25	24	Pass
106	5530	52.24	17.18	24	Pass
122	5610	130.918	21.17	24	Pass
*138 (U-NII-2C)	5690	158.795	22.01	24	Pass
*138 (U-NII-3)	5690	5.9	7.71	30	Pass
155	5775	124.738	20.96	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	83.19	30.2 > 24
106	5530	81.31	30.1 > 24
122	5610	161.36	33.07 > 24
138 (U-NII-2C)	5690	111.54	31.47 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	16.783	12.25	24	Pass
*50 (U-NII-2A)	5250	16.822	12.26	24	Pass
114	5570	40.272	16.05	24	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.39	30.15 > 24
114	5570	165.84	33.19 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
26/0	36	5180	38.107	15.81	24	Pass
26/8	64	5320	38.637	15.87	24	Pass
26/0	100	5500	37.844	15.78	24	Pass
26/8	140	5700	39.446	15.96	24	Pass
26/0	149	5745	76.913	18.86	30	Pass
26/8	165	5825	75.509	18.78	30	Pass

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

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
64	5320	20.71	24.16 > 24
100	5500	20.67	24.15 > 24
140	5700	20.91	24.2 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52/40	48	5240	63.68	18.04	24	Pass
52/40	165	5825	85.31	19.31	30	Pass

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

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
106/53	36	5180	73.79	18.68	24	Pass
106/54	64	5320	92.257	19.65	24	Pass
106/53	100	5500	64.269	18.08	24	Pass
106/54	140	5700	74.645	18.73	24	Pass
106/53	149	5745	121.06	20.83	30	Pass
106/54	165	5825	119.95	20.79	30	Pass

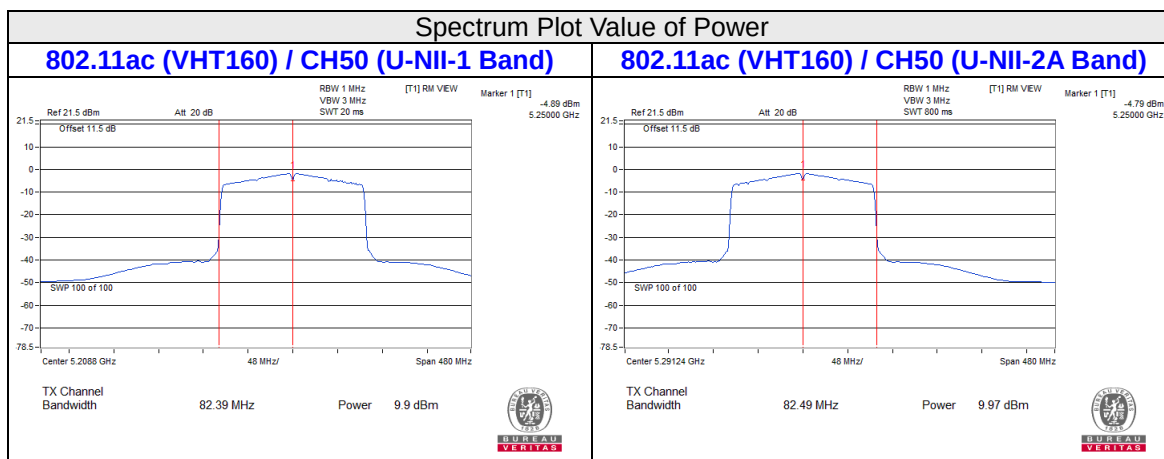
Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , The duty factor was included in the total power.

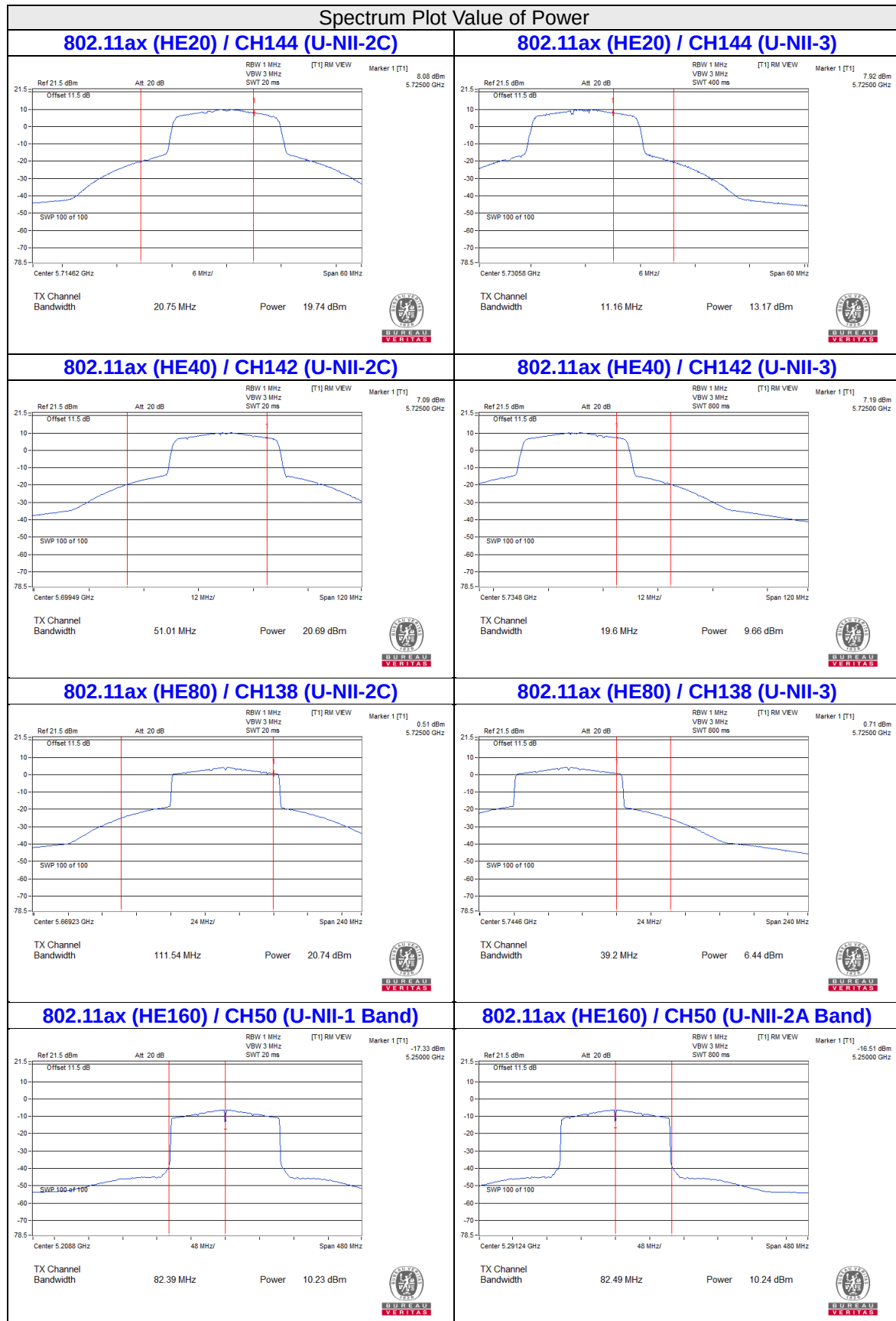
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
64	5320	24.87	24.95 > 24
100	5500	21.18	24.25 > 24
140	5700	24.49	24.88 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

For channel straddling 5250MHz & 5725MHz of Power







26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	28.72
60	5300	28.42
64	5320	27.51
100	5500	37.43
116	5580	29.7
140	5700	29.14
144 (U-NII-2C)	5720	22.97

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	28.94
60	5300	35.6
64	5320	26.23
100	5500	27.48
116	5580	36.83
140	5700	22.1
144 (U-NII-2C)	5720	20.75

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
54	5270	70.59
62	5310	41.16
102	5510	41.25
110	5550	73.76
134	5670	63
142 (U-NII-2C)	5710	51.01

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	83.19
106	5530	81.31
122	5610	161.36
138 (U-NII-2C)	5690	111.54

802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
50 (U-NII-2A)	5250	82.39
114	5570	165.84

802.11ax (RU26)

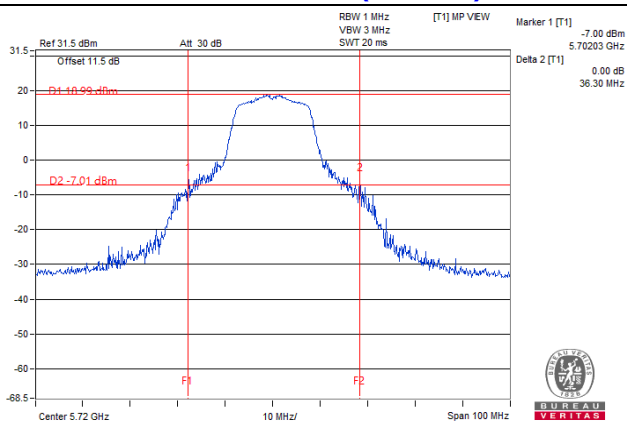
RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26/8	64	5320	20.71
26/0	100	5500	20.67
26/8	140	5700	20.91

802.11ax (RU106)

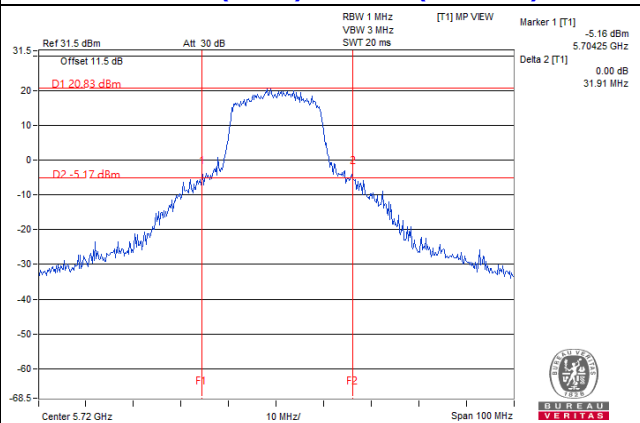
RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
106/54	64	5320	24.87
106/53	100	5500	21.18
106/54	140	5700	24.49

Spectrum Plot of Worst Value

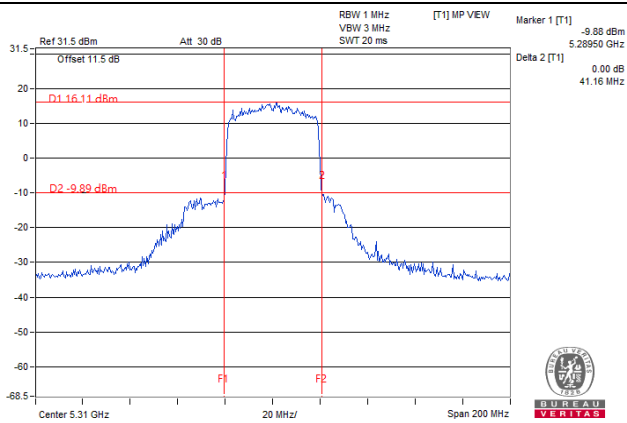
802.11a / CH144 (U-NII-2C)



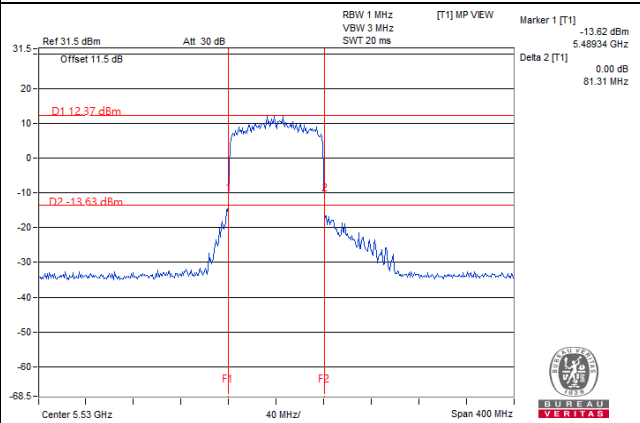
802.11ax (HE20) / CH144 (U-NII-2C)



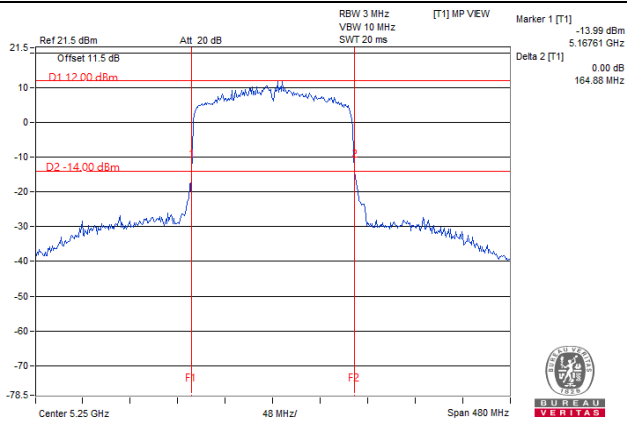
802.11ax (HE40) / CH62



802.11ax (HE80) / CH106



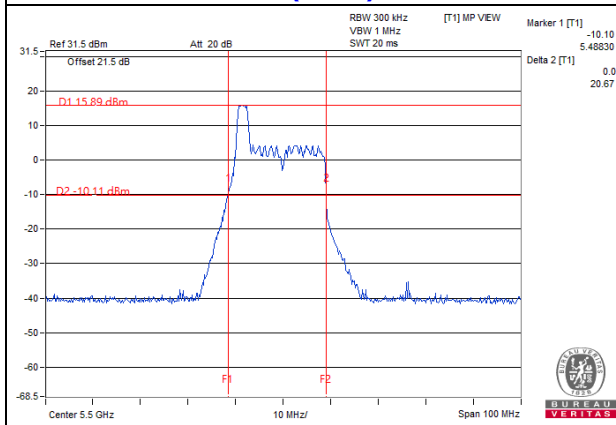
802.11ax (HE160) / CH50 (U-NII-2A)



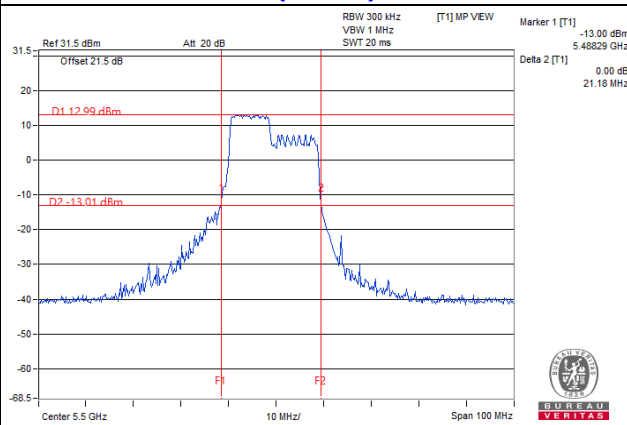
Note: For CH144 (U-NII-2C) = 5725MHz - Marker 1

Spectrum Plot of Worst Value

802.11ax (RU26) / CH100

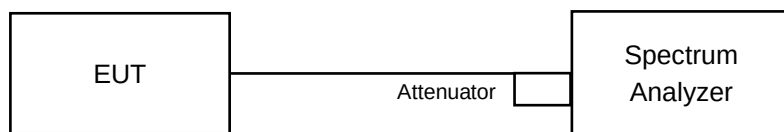


802.11ax (RU106) / CH100



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.04
40	5200	17.04
48	5240	17.22
52	5260	16.92
60	5300	17.04
64	5320	16.92
100	5500	17.16
116	5580	17.16
140	5700	17.16
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	3.4
149	5745	21.39
157	5785	21.83
165	5825	18.6

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.96
40	5200	19.2
48	5240	18.96
52	5260	19.08
60	5300	19.2
64	5320	18.96
100	5500	19.08
116	5580	19.2
140	5700	18.96
144 (U-NII-2C)	5720	14.6
144 (U-NII-3)	5720	4.48
149	5745	19.32
157	5785	19.32
165	5825	19.32

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	37.92
46	5230	38.16
54	5270	38.64
62	5310	37.92
102	5510	37.92
110	5550	40.52
134	5670	38.96
142 (U-NII-2C)	5710	35.16
142 (U-NII-3)	5710	4.92
151	5755	38.64
159	5795	38.88

802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	76.8
58	5290	77.28
106	5530	77.28
122	5610	77.76
138 (U-NII-2C)	5690	74.36
138 (U-NII-3)	5690	3.88
155	5775	77.92

802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
50 (U-NII-1)	5250	77.76
50 (U-NII-2A)	5250	77.76
114	5570	155.52

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
26/0	36	5180	18.6
26/8	64	5320	18.53
26/0	100	5500	18.6
26/8	140	5700	18.6
26/0	149	5745	18.52
26/8	165	5825	18.48

802.11ax (RU52)

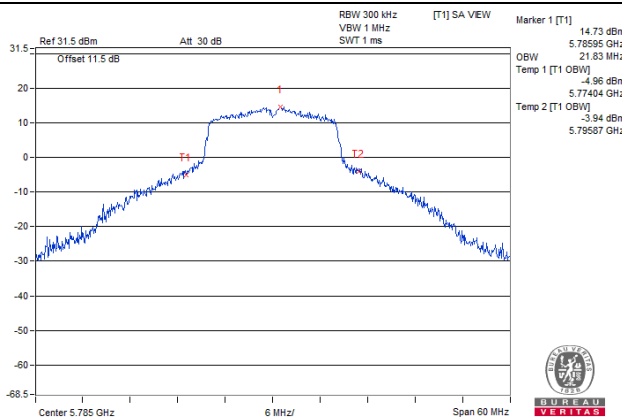
RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
52/40	48	5240	18.36
52/40	165	5825	18.36

802.11ax (RU106)

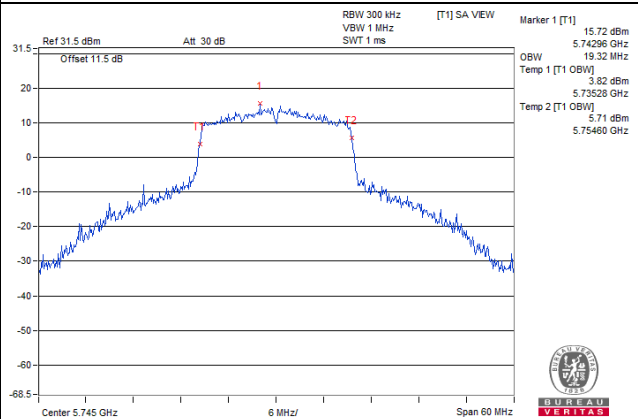
RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
106/53	36	5180	18.36
106/54	64	5320	18.6
106/53	100	5500	18.36
106/54	140	5700	18.48
106/53	149	5745	18.48
106/54	165	5825	18.48

Spectrum Plot of Max. Value

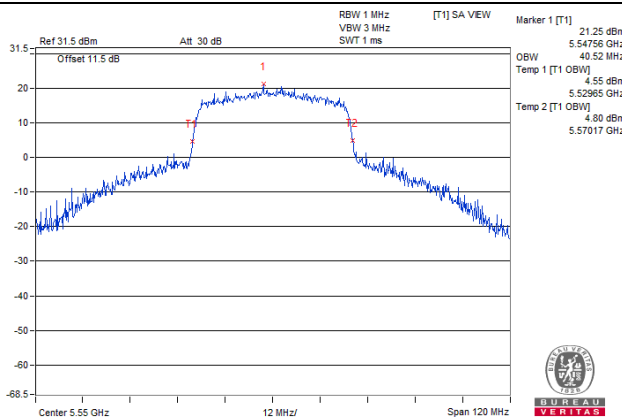
802.11a / CH157



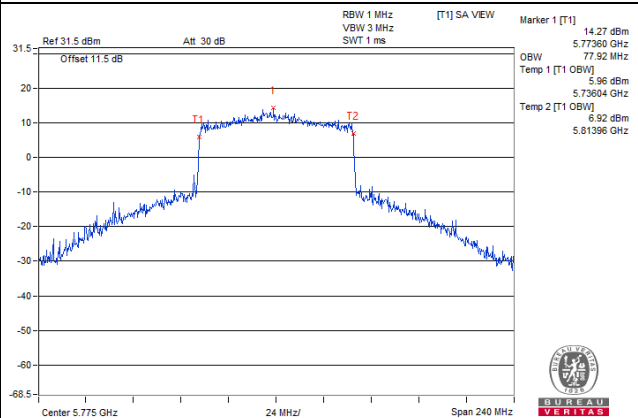
802.11ax (HE20) / CH149



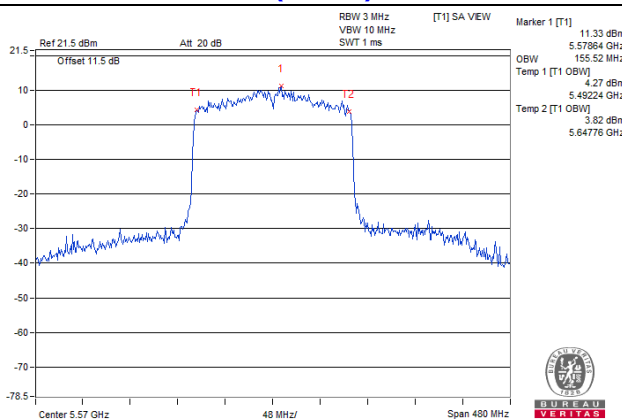
802.11ax (HE40) / CH110



802.11ax (HE80) / CH155

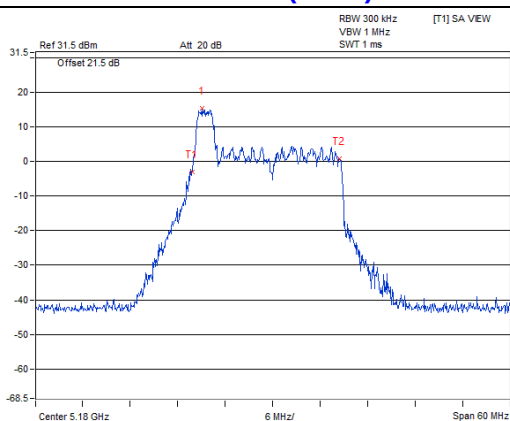


802.11ax (HE160) / CH114

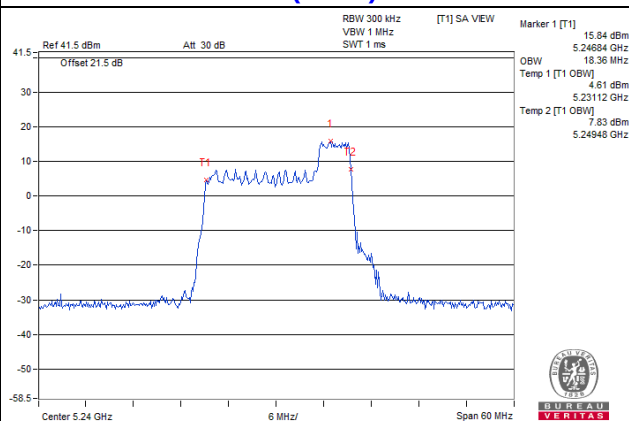


Spectrum Plot of Max. Value

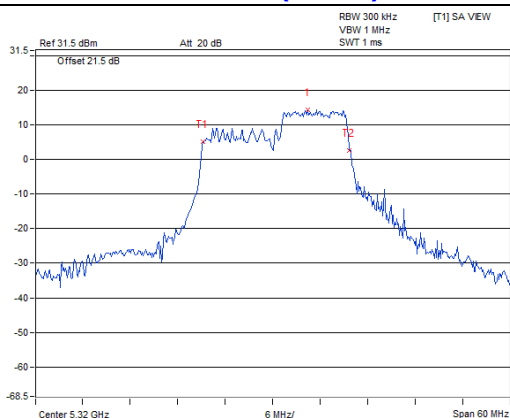
802.11ax (RU26) / CH36



802.11ax (RU52) / CH48

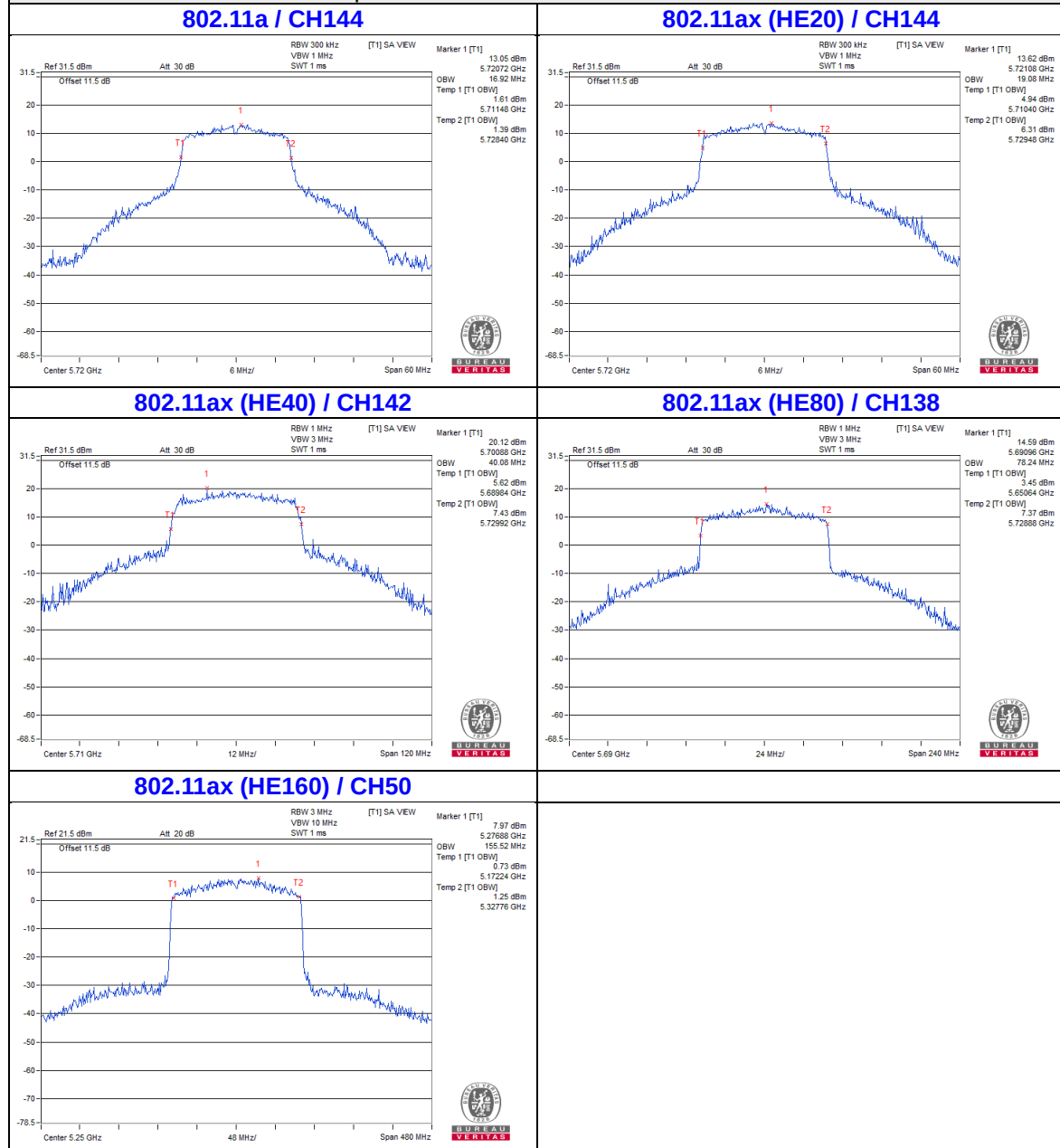


802.11ax (RU106) / CH64



For channel straddling 5250MHz & 5725MHz of OCP99% BW

Spectrum Plot Value of OCP99% BW

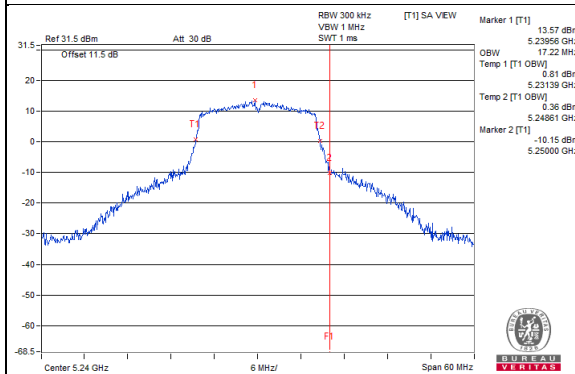


Note:

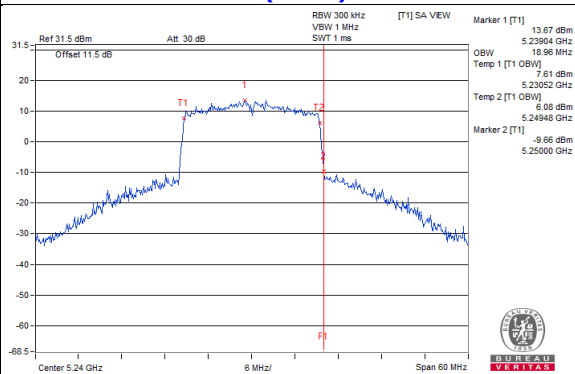
- The OCP99% bandwidth below 5725MHz = 5725MHz – Temp 1
- The OCP99% bandwidth above 5725MHz = Temp 2 – 5725MHz
- The OCP99% bandwidth below 5250MHz = 5250MHz – Temp 1
- The OCP99% bandwidth above 5250MHz = Temp 2 – 5250MHz

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

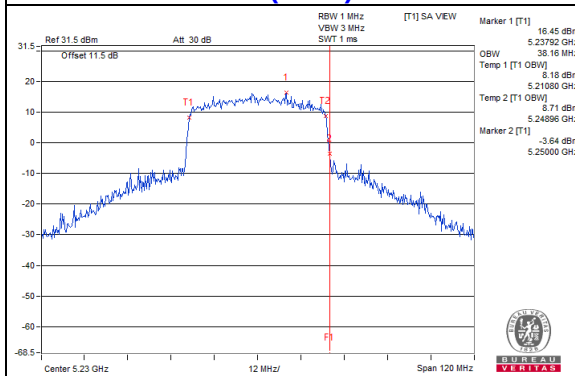
802.11a / CH48



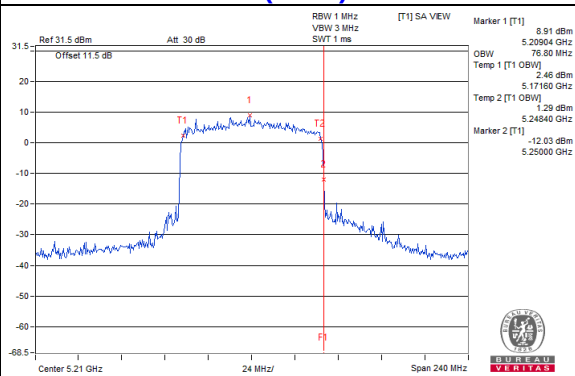
802.11ax (HE20) / CH48



802.11ax (HE40) / CH46

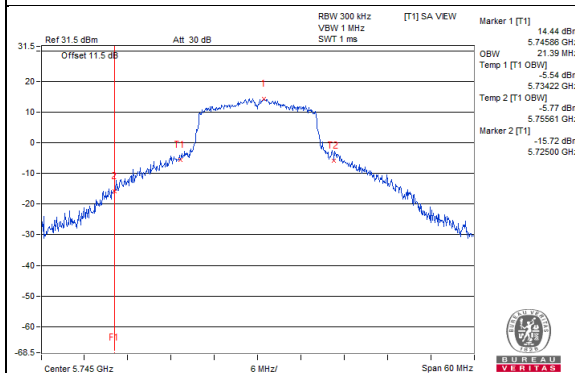


802.11ax (HE80) / CH42

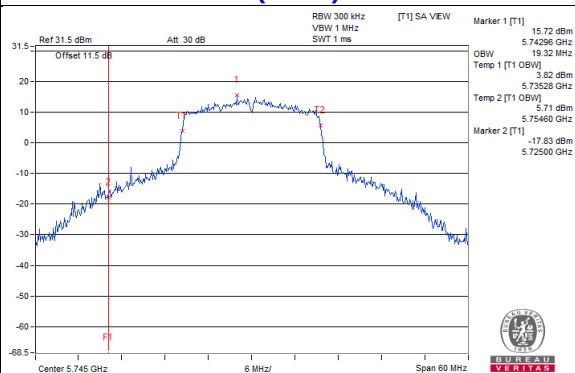


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

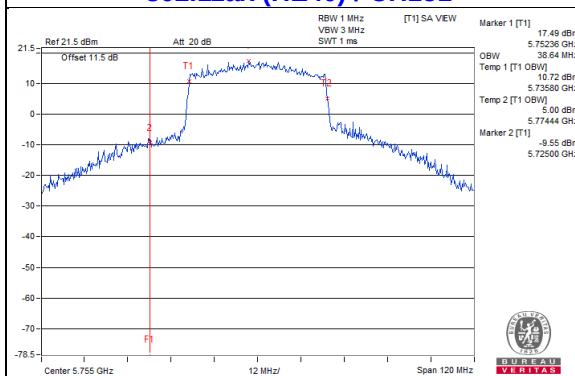
802.11a / CH149



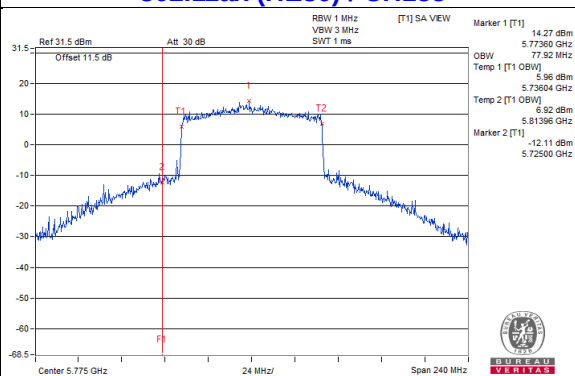
802.11ax (HE20) / CH149

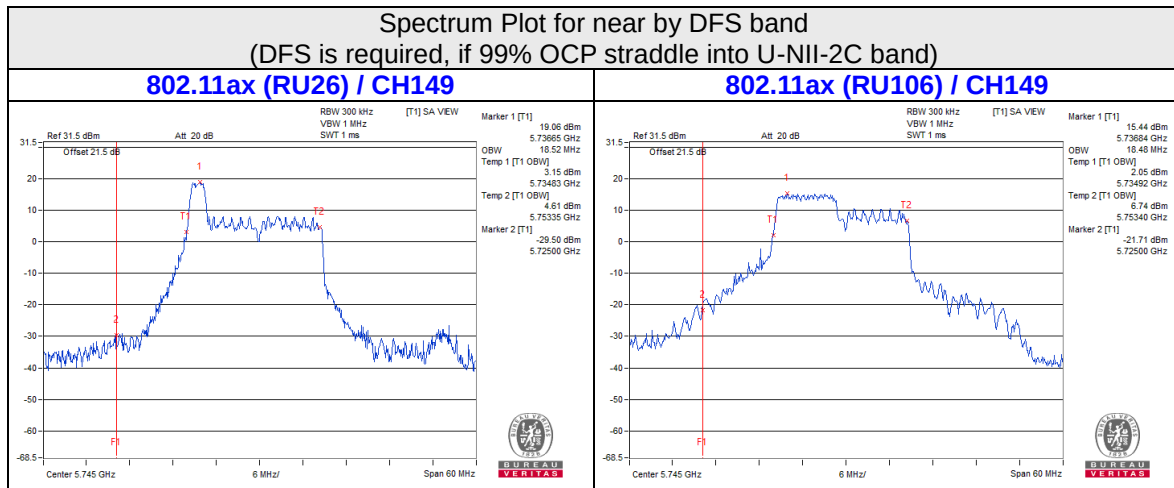


802.11ax (HE40) / CH151



802.11ax (HE80) / CH155



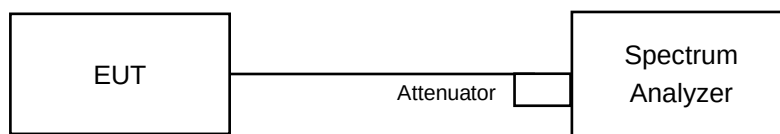


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

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

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500\text{kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	9.66	0.38	10.04	11.00	Pass
40	5200	10.32	0.38	10.70	11.00	Pass
48	5240	10.47	0.38	10.85	11.00	Pass
52	5260	10.46	0.38	10.84	11.00	Pass
60	5300	10.15	0.38	10.53	11.00	Pass
64	5320	9.52	0.38	9.90	11.00	Pass
100	5500	9.69	0.38	10.07	11.00	Pass
116	5580	10.42	0.38	10.80	11.00	Pass
140	5700	9.79	0.38	10.17	11.00	Pass
144 (U-NII-2C)	5720	10.23	0.38	10.61	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	8.21	0.53	8.74	11.00	Pass
40	5200	10.26	0.53	10.79	11.00	Pass
48	5240	9.46	0.53	9.99	11.00	Pass
52	5260	8.99	0.53	9.52	11.00	Pass
60	5300	9.24	0.53	9.77	11.00	Pass
64	5320	8.29	0.53	8.82	11.00	Pass
100	5500	7.97	0.53	8.50	11.00	Pass
116	5580	9.27	0.53	9.80	11.00	Pass
140	5700	7.25	0.53	7.78	11.00	Pass
144 (U-NII-2C)	5720	9.00	0.53	9.53	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	3.23	0.68	3.91	11.00	Pass
46	5230	6.29	0.68	6.97	11.00	Pass
54	5270	7.16	0.68	7.84	11.00	Pass
62	5310	4.41	0.68	5.09	11.00	Pass
102	5510	3.70	0.68	4.38	11.00	Pass
110	5550	7.42	0.68	8.10	11.00	Pass
134	5670	5.59	0.68	6.27	11.00	Pass
142 (U-NII-2C)	5710	7.34	0.68	8.02	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-1.90	1.27	-0.63	11.00	Pass
58	5290	-1.11	1.27	0.16	11.00	Pass
106	5530	-0.86	1.27	0.41	11.00	Pass
122	5610	3.30	1.27	4.57	11.00	Pass
138 (U-NII-2C)	5690	3.18	1.27	4.45	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
50 (U-NII-1)	5250	-7.18	2.02	-5.16	11.00	Pass
50 (U-NII-2A)	5250	-7.16	2.02	-5.14	11.00	Pass
114	5570	-5.40	2.02	-3.38	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
26/0	36	5180	8.50	2.16	10.66	11.00	Pass
26/8	64	5320	8.58	2.16	10.74	11.00	Pass
26/0	100	5500	8.43	2.16	10.59	11.00	Pass
26/8	140	5700	8.54	2.16	10.70	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
52/40	48	5240	8.54	2.36	10.90	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

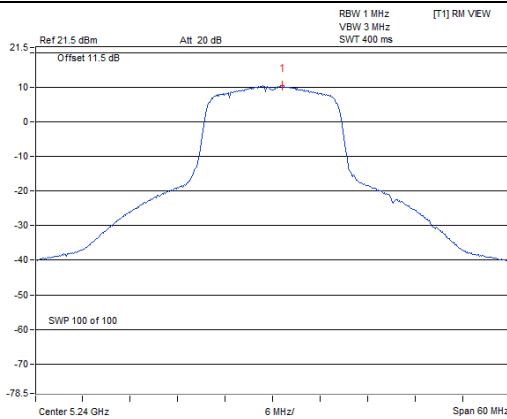
802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
106/53	36	5180	5.76	2.67	8.43	11.00	Pass
106/54	64	5320	6.62	2.67	9.29	11.00	Pass
106/53	100	5500	5.07	2.67	7.74	11.00	Pass
106/54	140	5700	5.55	2.67	8.22	11.00	Pass

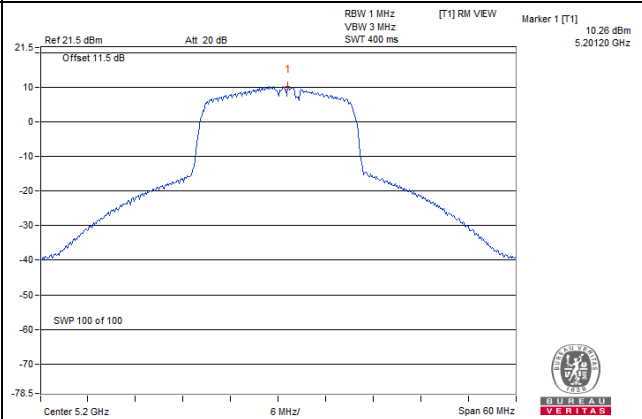
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

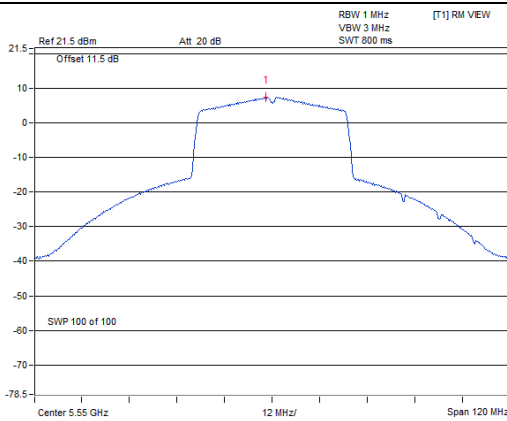
802.11a / CH48



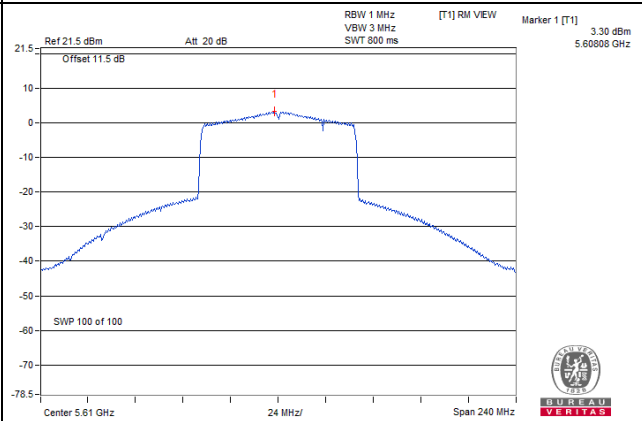
802.11ax (HE20) / CH40



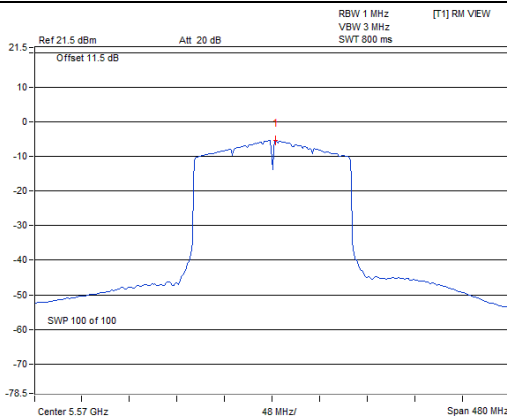
802.11ax (HE40) / CH110



802.11ax (HE80) / CH122

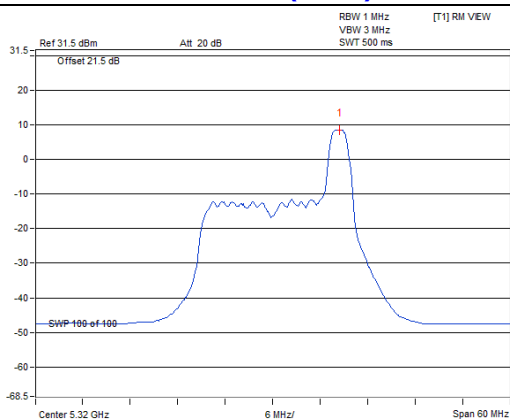


802.11ax (HE160) / CH114

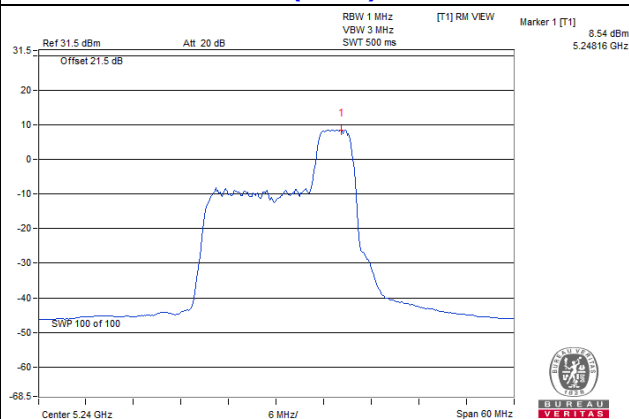


Spectrum Plot of Worst Value

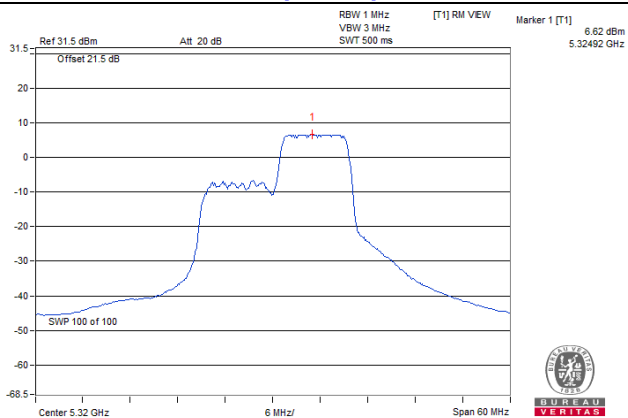
802.11ax (RU26) / CH64



802.11ax (RU52) / CH48



802.11ax (RU106) / CH64



For U-NII-3 band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	2.74	0.38	5.34	30	Pass
149	5745	6.74	0.38	9.34	30	Pass
157	5785	6.89	0.38	9.49	30	Pass
165	5825	6.1	0.38	8.70	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	1.89	0.53	4.64	30	Pass
149	5745	4.7	0.53	7.45	30	Pass
157	5785	4.81	0.53	7.56	30	Pass
165	5825	5.13	0.53	7.88	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
142 (U-NII-3)	5710	-1.22	0.68	1.68	30	Pass
151	5755	1.88	0.68	4.78	30	Pass
159	5795	1.94	0.68	4.84	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
138 (U-NII-3)	5690	-5.55	1.27	-2.06	30	Pass
155	5775	-1.98	1.27	1.51	30	Pass

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
26/0	149	5745	8.38	2.16	12.76	30	Pass
26/8	165	5825	7.9	2.16	12.28	30	Pass

802.11ax (RU52)

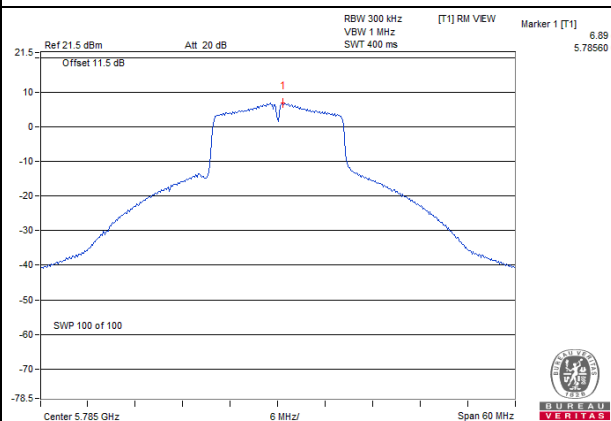
RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
52/40	165	5825	6.19	2.36	10.77	30	Pass

802.11ax (RU106)

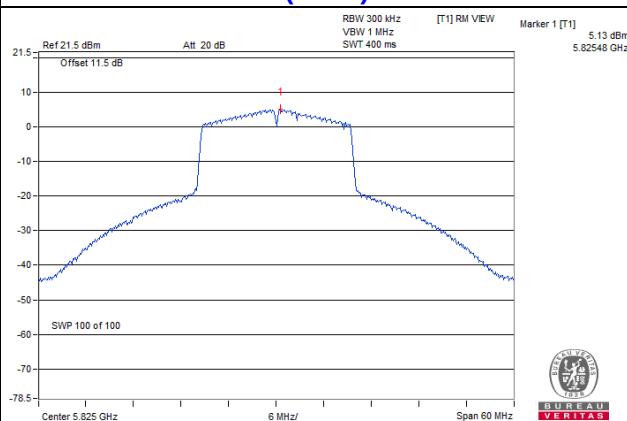
RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
106/53	149	5745	4.05	2.67	8.94	30	Pass
106/54	165	5825	3.61	2.67	8.50	30	Pass

Spectrum Plot of Worst Value

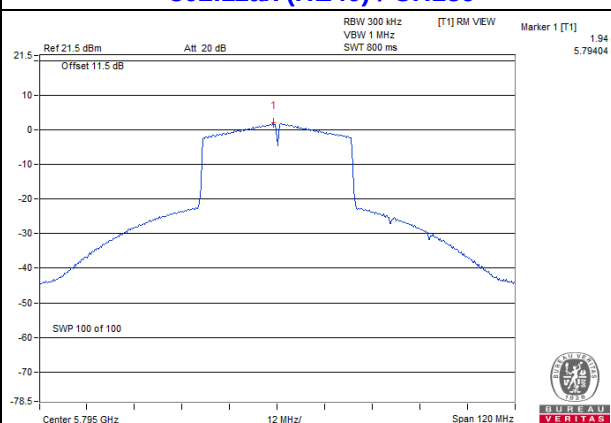
802.11a / CH157



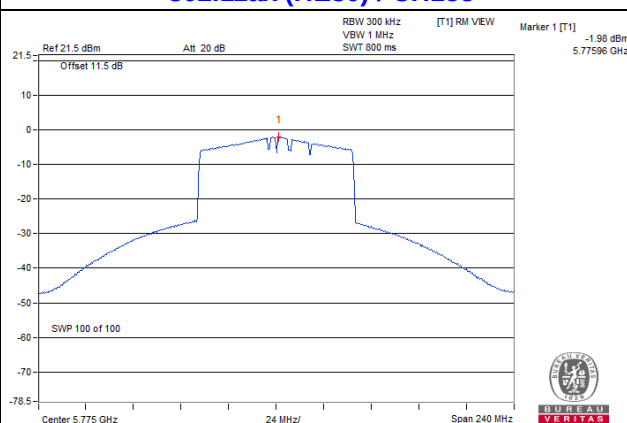
802.11ax (HE20) / CH165



802.11ax (HE40) / CH159

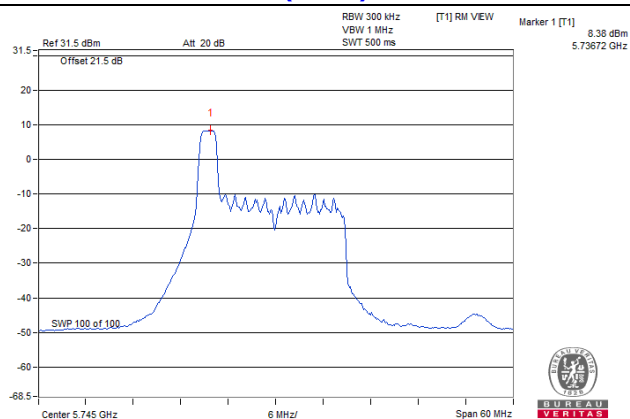


802.11ax (HE80) / CH155

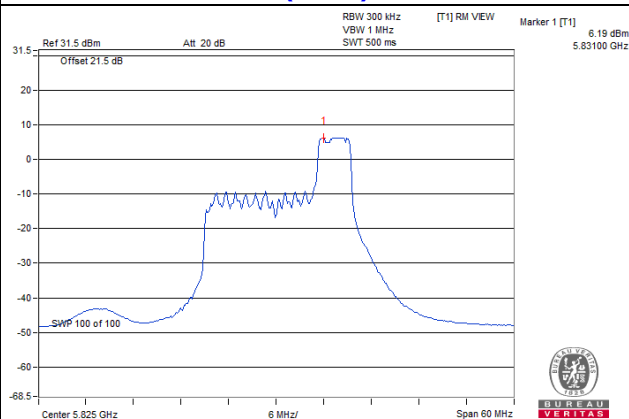


Spectrum Plot of Worst Value

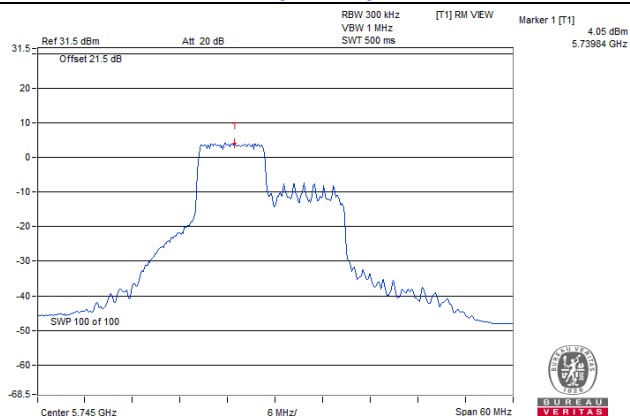
802.11ax (RU26) / CH149



802.11ax (RU52) / CH165



802.11ax (RU106) / CH149

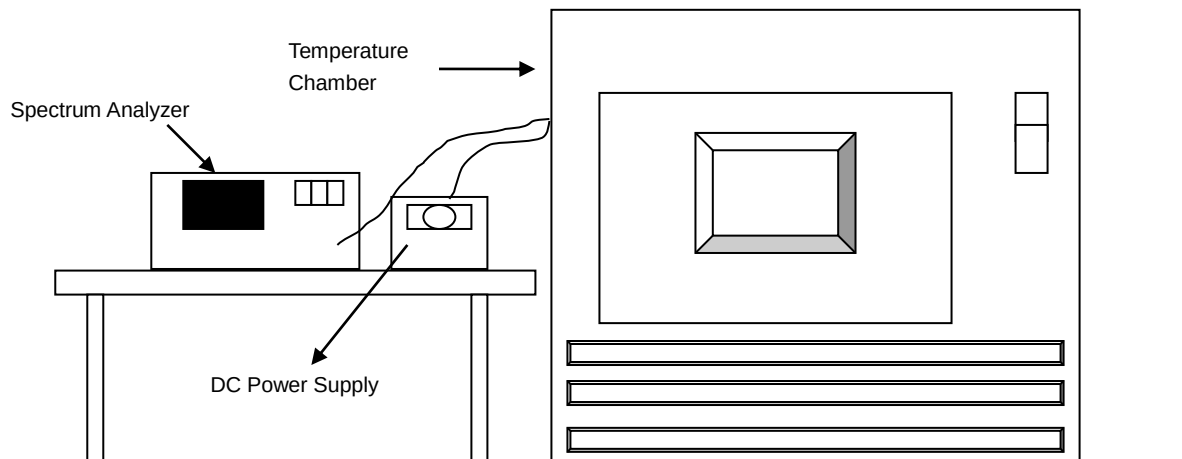


4.6 Frequency Stability Measurement

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 DC 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 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	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	3.3	5179.9946	Pass	5179.9927	Pass	5179.9948	Pass	5179.9928	Pass
60	3.3	5180.0222	Pass	5180.0255	Pass	5180.0259	Pass	5180.0247	Pass
50	3.3	5179.9983	Pass	5179.9996	Pass	5179.9968	Pass	5179.9977	Pass
40	3.3	5180.004	Pass	5180.0043	Pass	5180.0066	Pass	5180.0075	Pass
30	3.3	5179.9982	Pass	5180.001	Pass	5179.9968	Pass	5180.0002	Pass
20	3.3	5179.9845	Pass	5179.9797	Pass	5179.9804	Pass	5179.9827	Pass
10	3.3	5179.9771	Pass	5179.9776	Pass	5179.9743	Pass	5179.9754	Pass
0	3.3	5179.9941	Pass	5179.99	Pass	5179.9936	Pass	5179.9906	Pass
-10	3.3	5179.9776	Pass	5179.9762	Pass	5179.9741	Pass	5179.9767	Pass

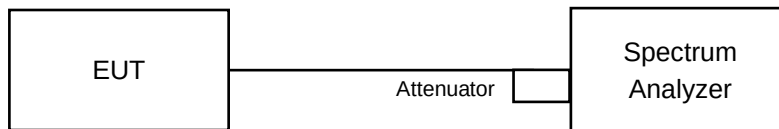
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5179.9816	Pass	5179.9835	Pass	5179.9845	Pass	5179.9822	Pass
	3.3	5179.9845	Pass	5179.9797	Pass	5179.9804	Pass	5179.9827	Pass
	2.805	5179.9848	Pass	5179.9861	Pass	5179.984	Pass	5179.986	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- 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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.58	0.5	Pass
149	5745	15.13	0.5	Pass
157	5785	15.12	0.5	Pass
165	5825	15.19	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.05	0.5	Pass
149	5745	17.07	0.5	Pass
157	5785	18.29	0.5	Pass
165	5825	17.06	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
142 (U-NII-3)	5710	2.02	0.5	Pass
151	5755	36.92	0.5	Pass
159	5795	34.02	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
138 (U-NII-3)	5690	3.45	0.5	Pass
155	5775	75.28	0.5	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
26/0	149	5745	2.12	0.5	Pass
26/8	165	5825	2.13	0.5	Pass

802.11ax (RU52)

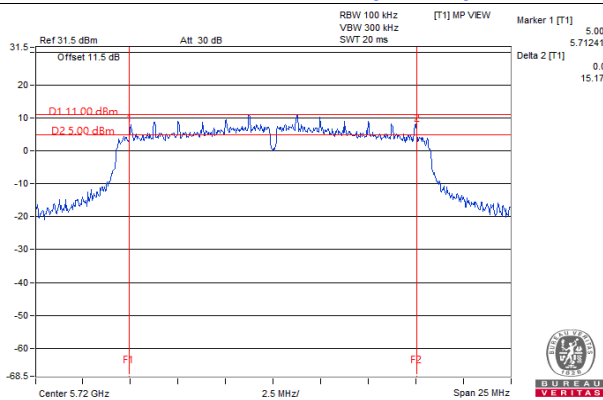
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
52/40	165	5825	17.13	0.5	Pass

802.11ax (RU106)

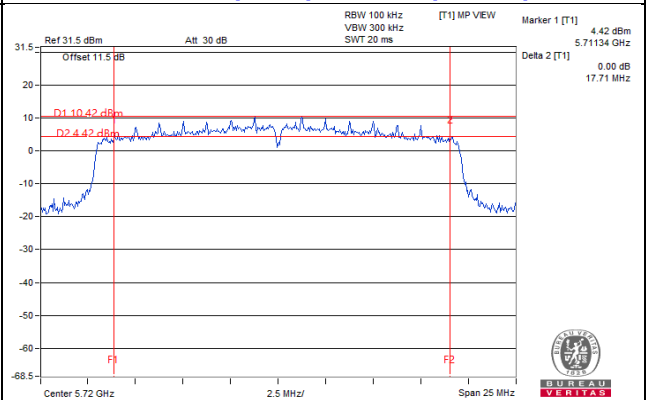
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
106/53	149	5745	17.2	0.5	Pass
106/54	165	5825	17.2	0.5	Pass

Spectrum Plot of Worst Value

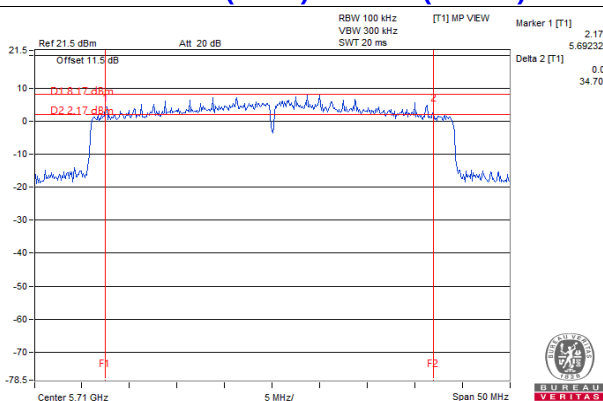
802.11a / CH144 (U-NII-3)



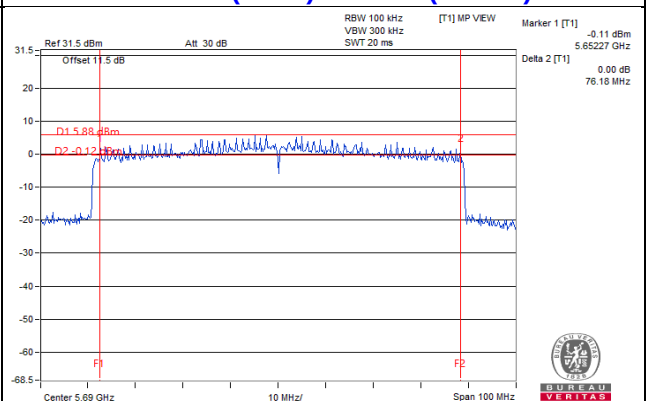
802.11ax (HE20) / CH144 (U-NII-3)



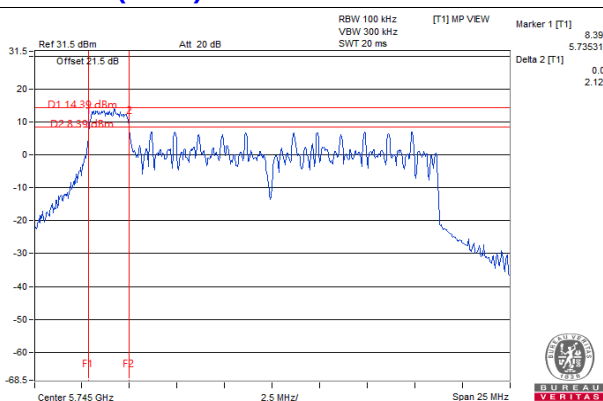
802.11ax (HE40) / CH142 (U-NII-3)



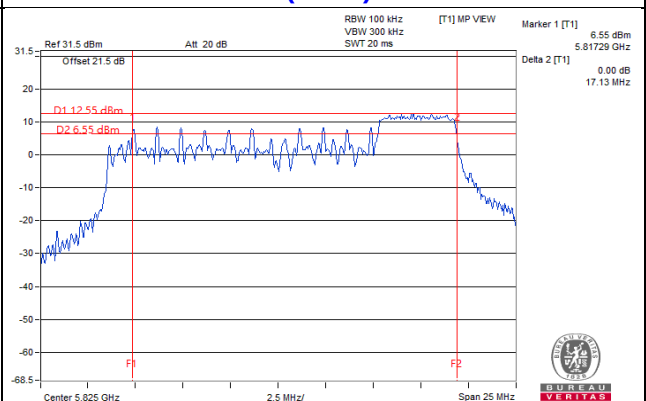
802.11ax (HE80) / CH138 (U-NII-3)



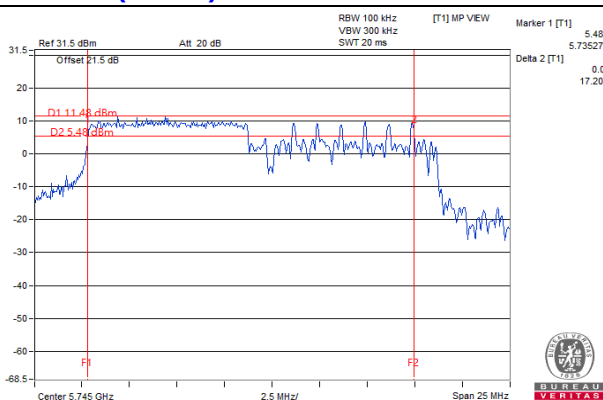
802.11ax (RU26) / CH149



802.11ax (RU52) / CH165



802.11ax (RU106) / CH149



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

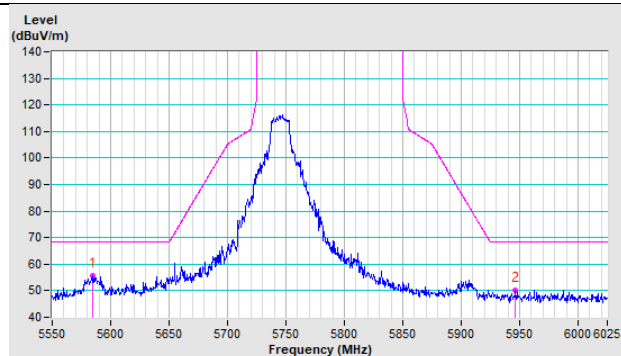
5 Pictures of Test Arrangements

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

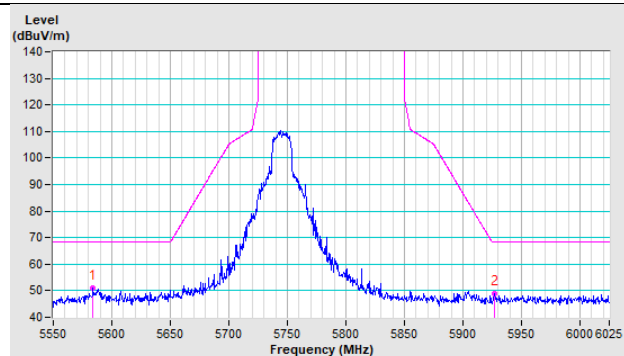
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

802.11a CH 149 : 5745 MHz

Horizontal

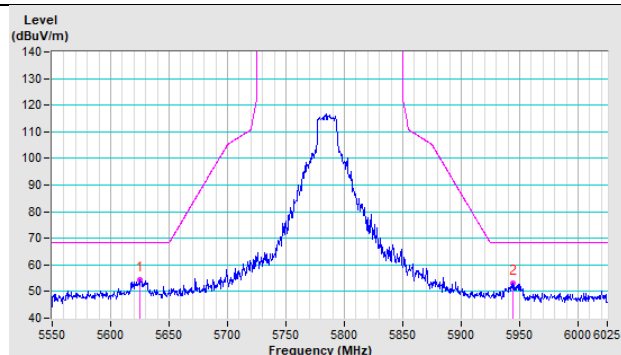


Vertical

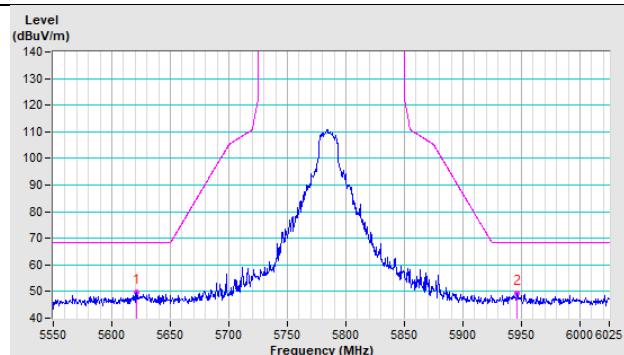


802.11a CH 157 : 5785 MHz

Horizontal

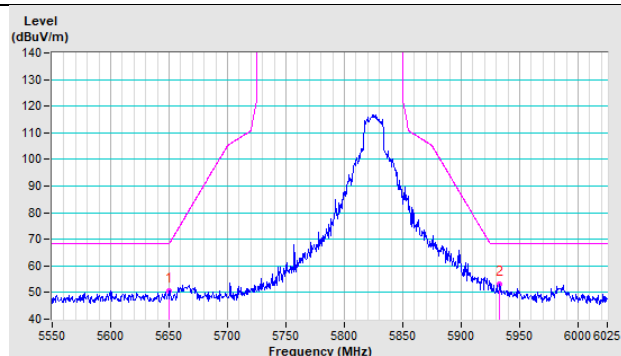


Vertical

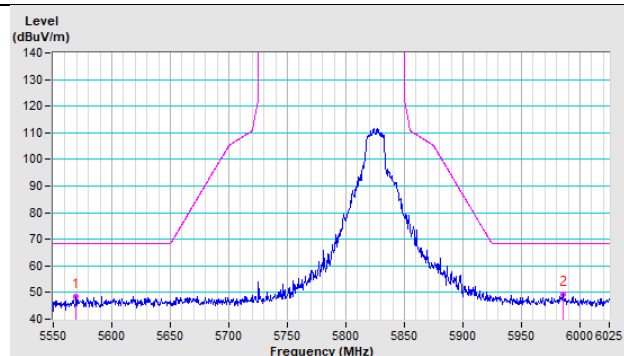


802.11a CH 165 : 5825 MHz

Horizontal

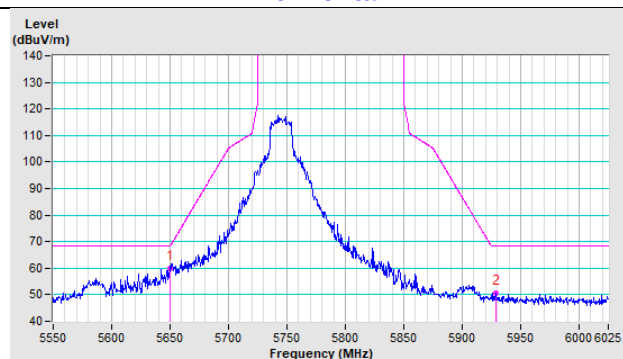


Vertical

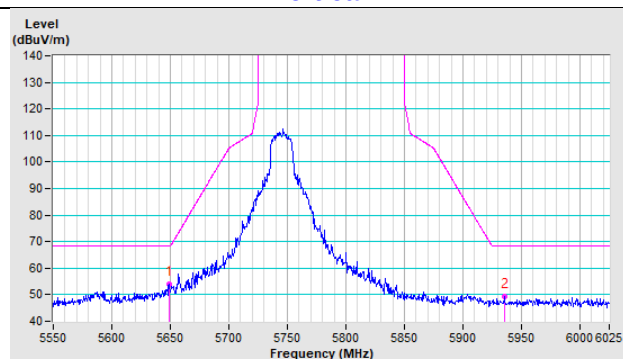


802.11ax (HE20) CH 149 : 5745 MHz

Horizontal

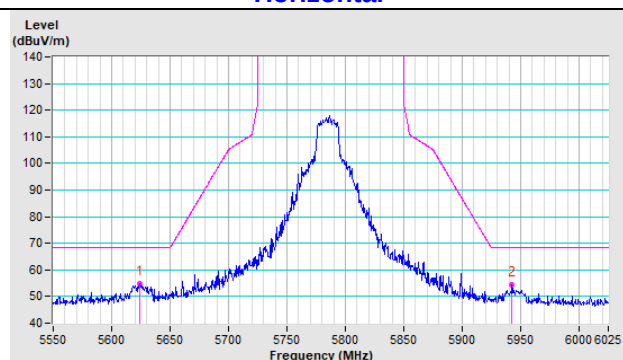


Vertical

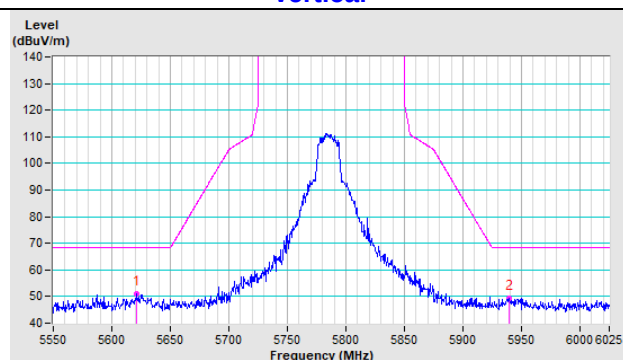


802.11ax (HE20) CH 157 : 5785 MHz

Horizontal

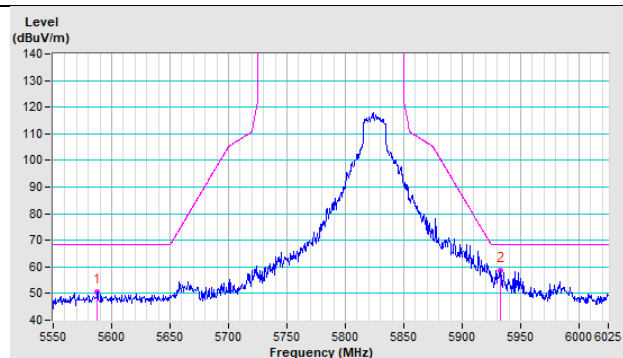


Vertical

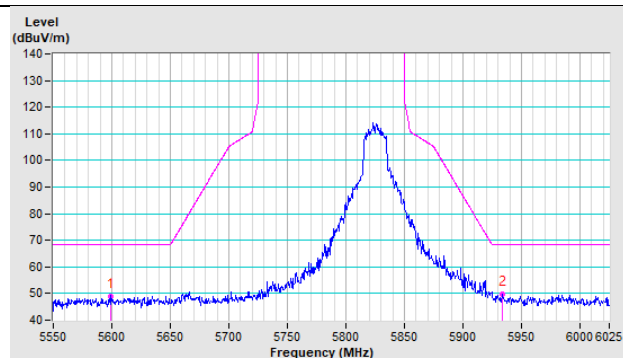


802.11ax (HE20) CH 165 : 5825 MHz

Horizontal

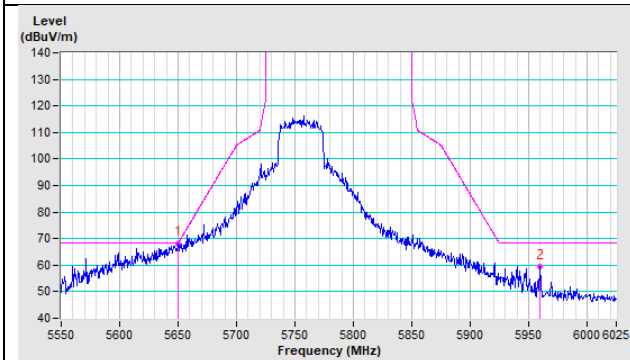


Vertical

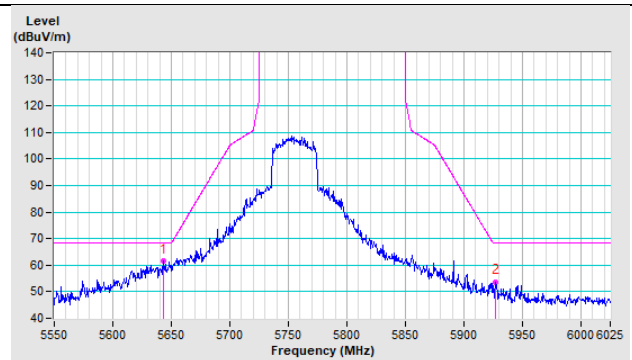


802.11ax (HE40) CH 151 : 5755 MHz

Horizontal

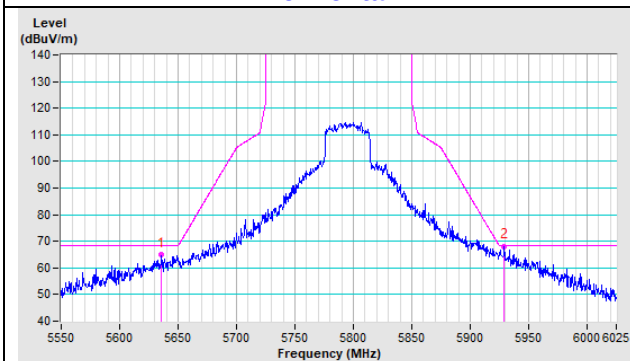


Vertical

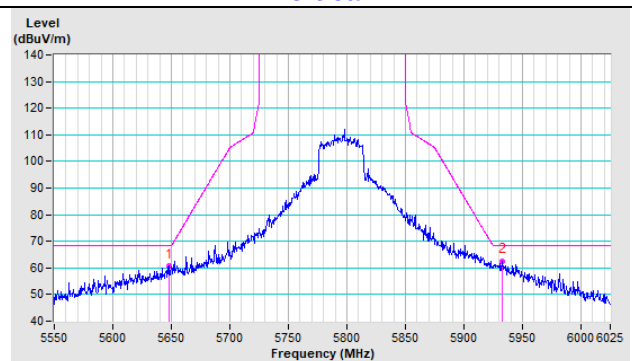


802.11ax (HE40) CH 159 : 5795 MHz

Horizontal

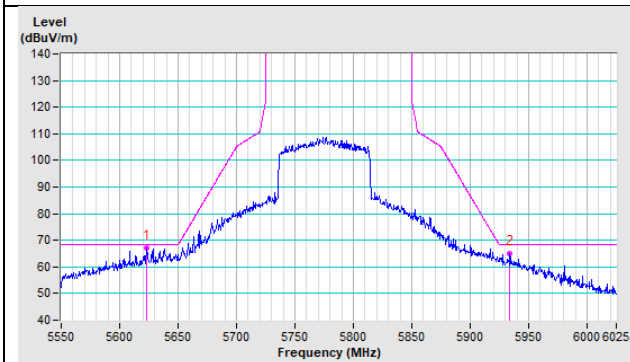


Vertical

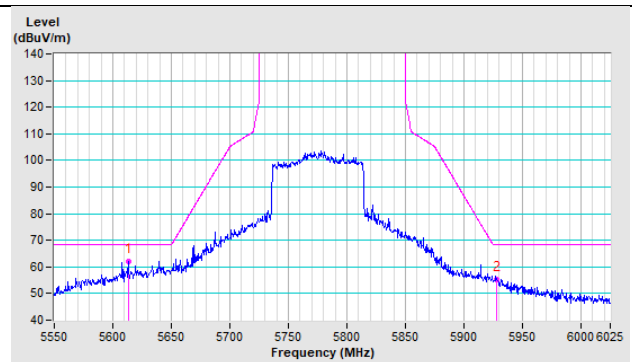


802.11ax (HE80) CH 155 : 5775 MHz

Horizontal

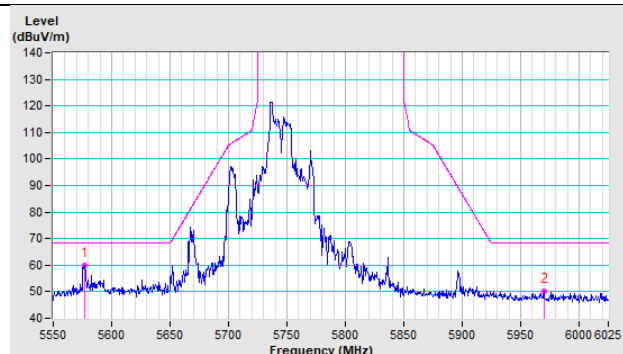


Vertical

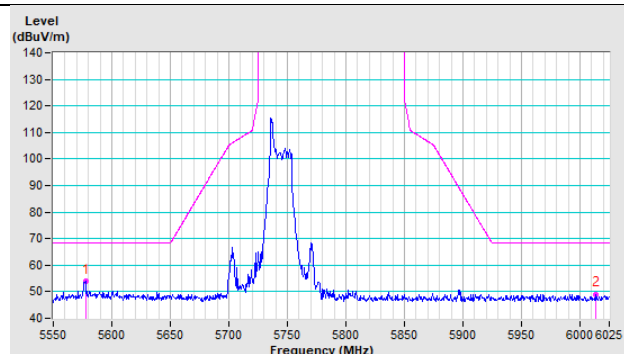


20MHz Preamble 802.11ax (RU26) CH 149 : 5745 MHz

Horizontal

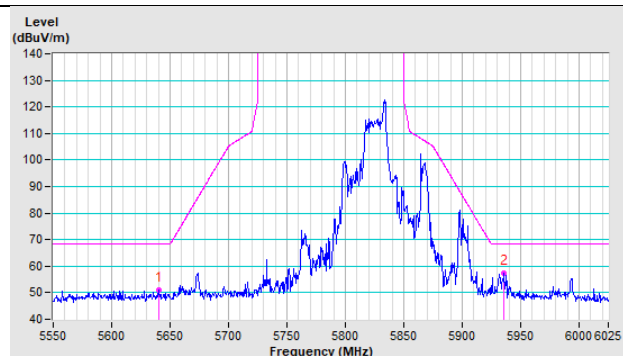


Vertical

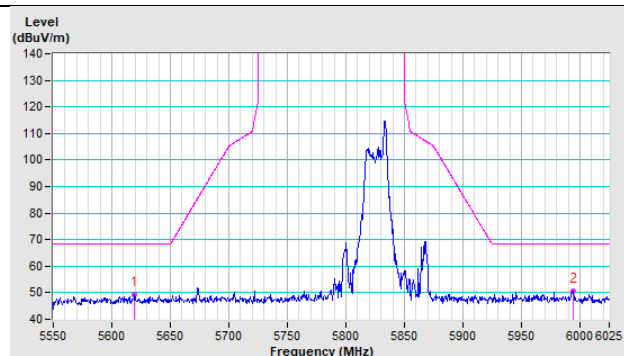


20MHz Preamble 802.11ax (RU26) CH 165 : 5825 MHz

Horizontal

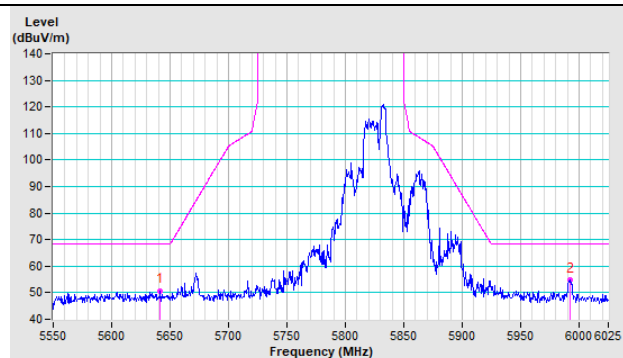


Vertical

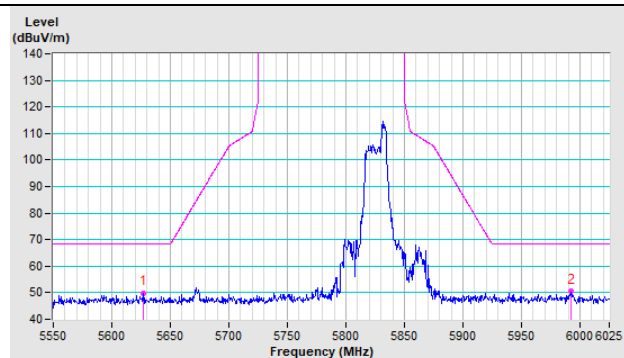


20MHz Preamble 802.11ax (RU52) CH 165 : 5825 MHz

Horizontal

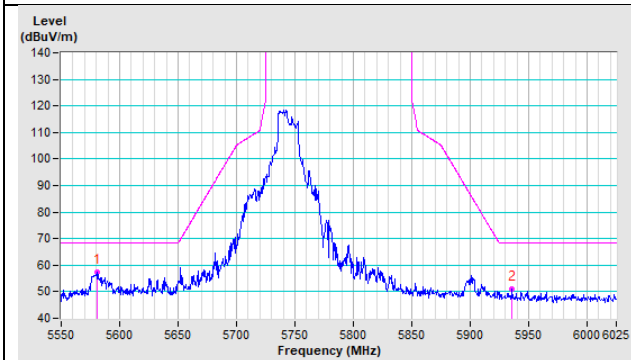


Vertical

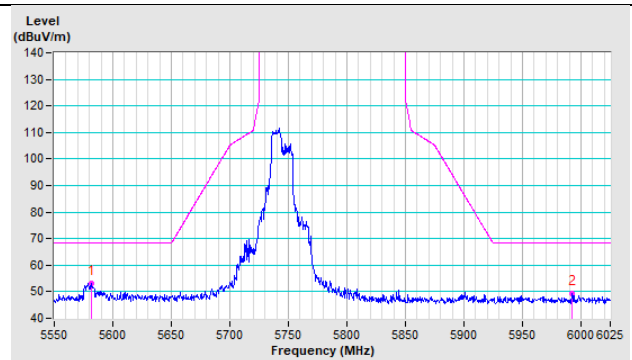


20MHz Preamble 802.11ax (RU106) CH 149 : 5745 MHz

Horizontal

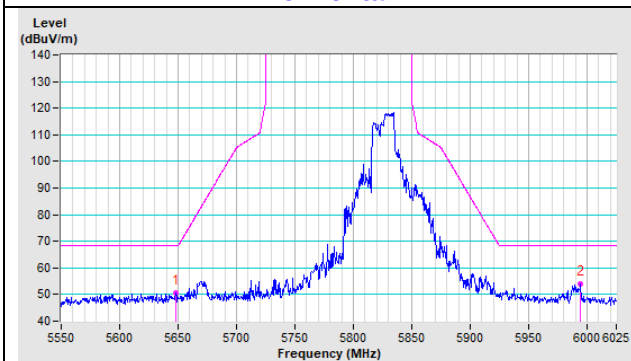


Vertical

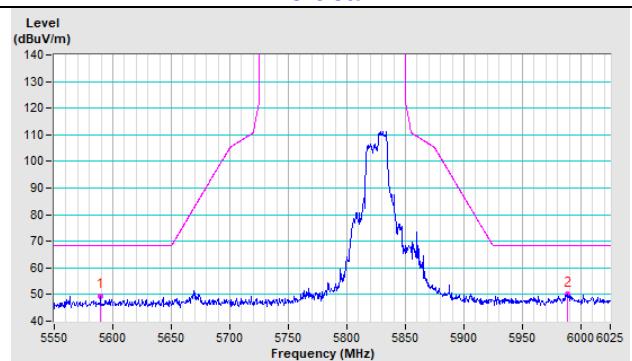


20MHz Preamble 802.11ax (RU106) CH 165 : 5825 MHz

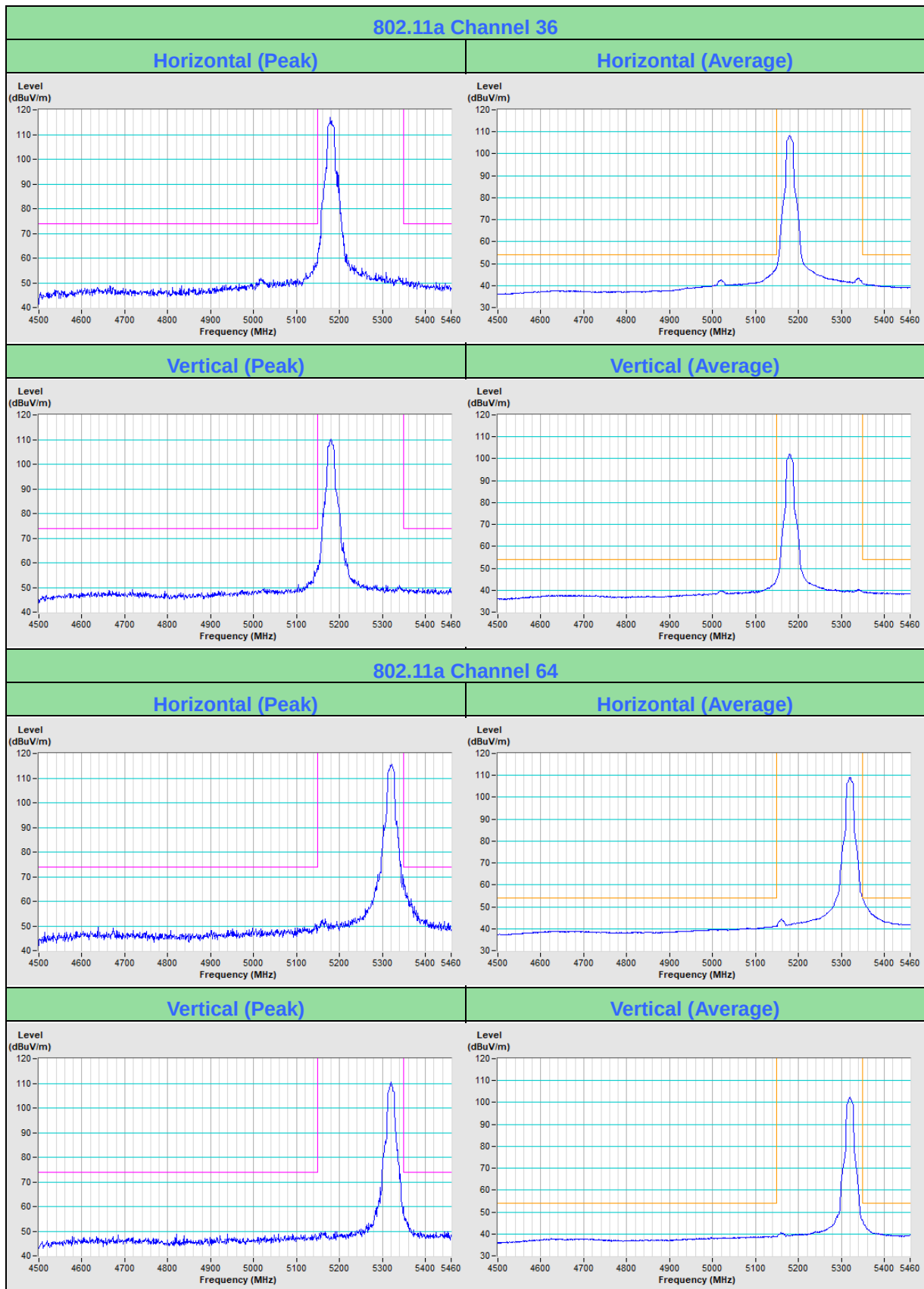
Horizontal

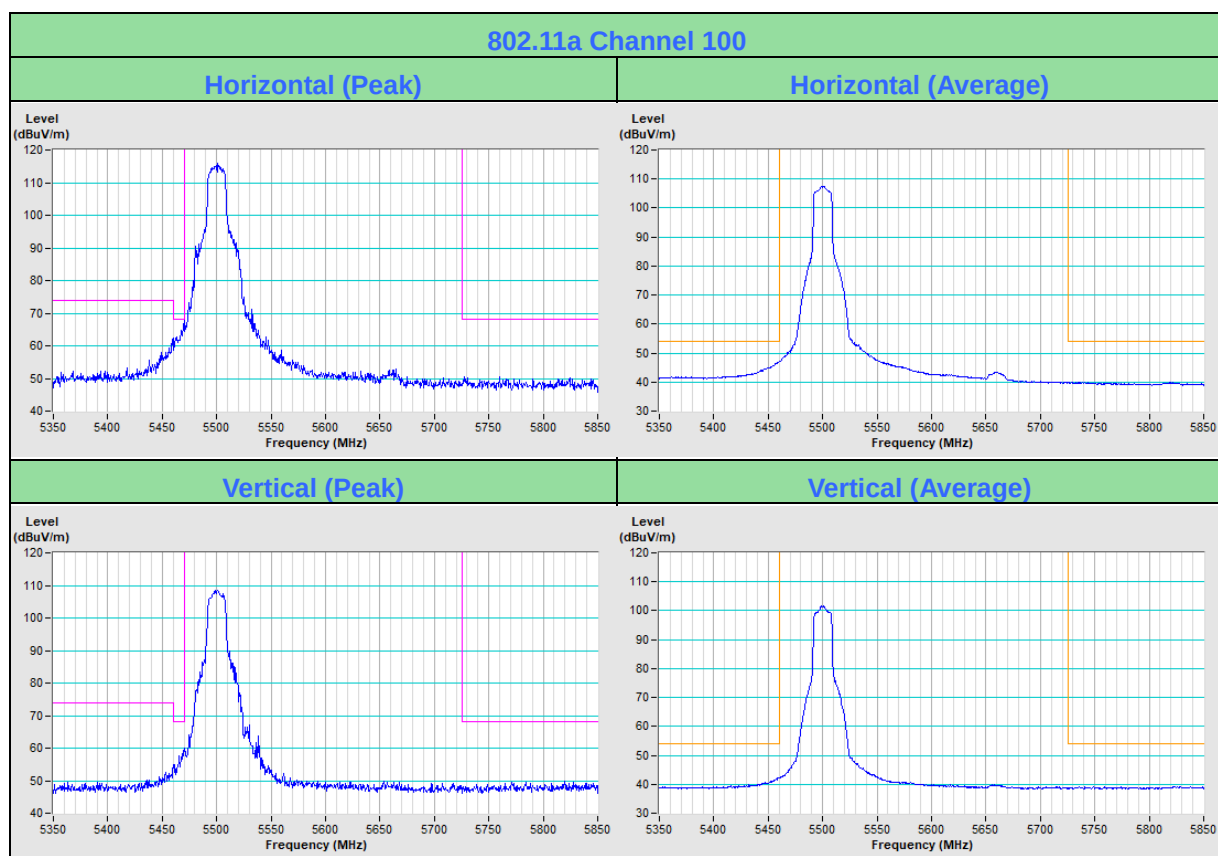


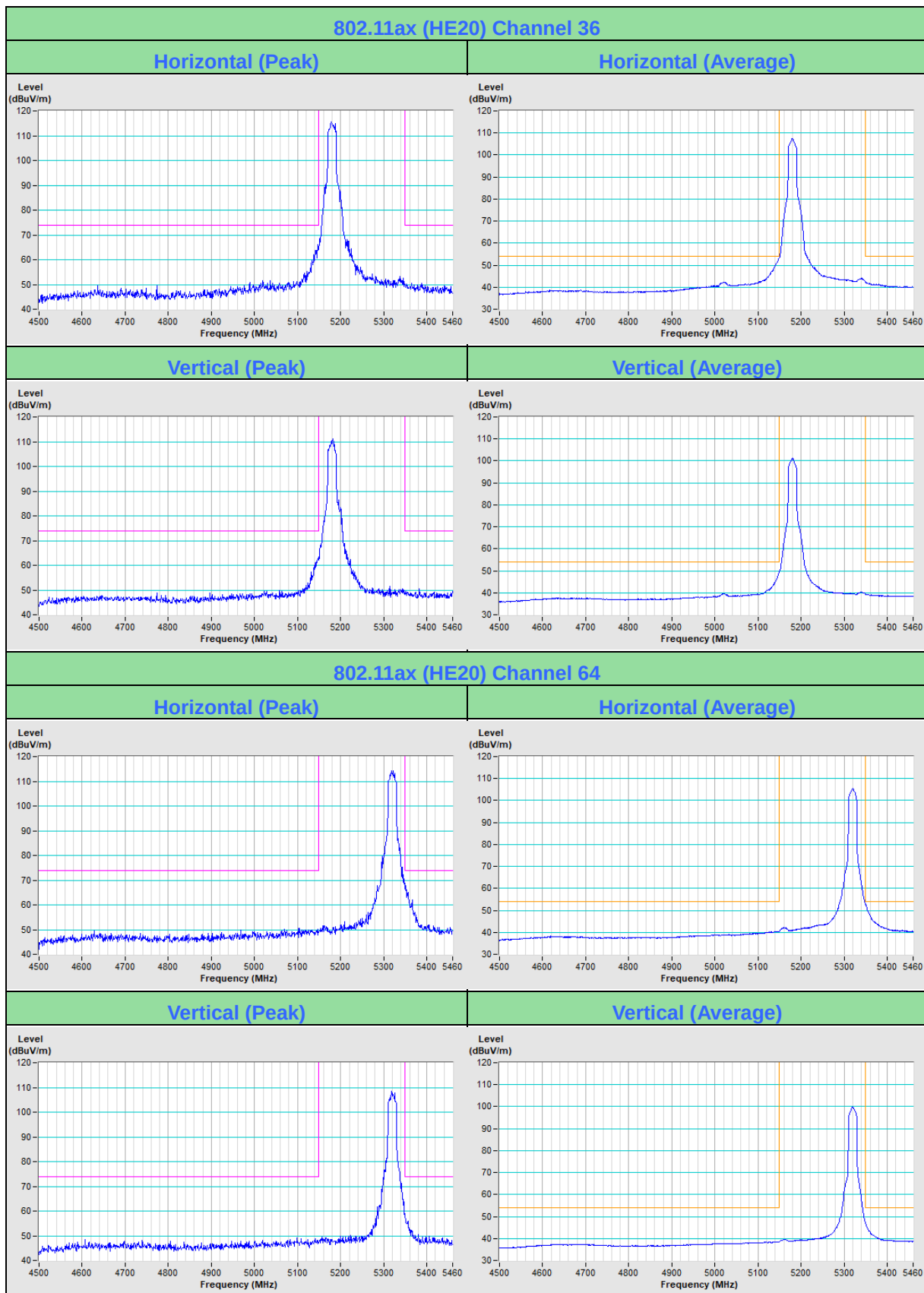
Vertical

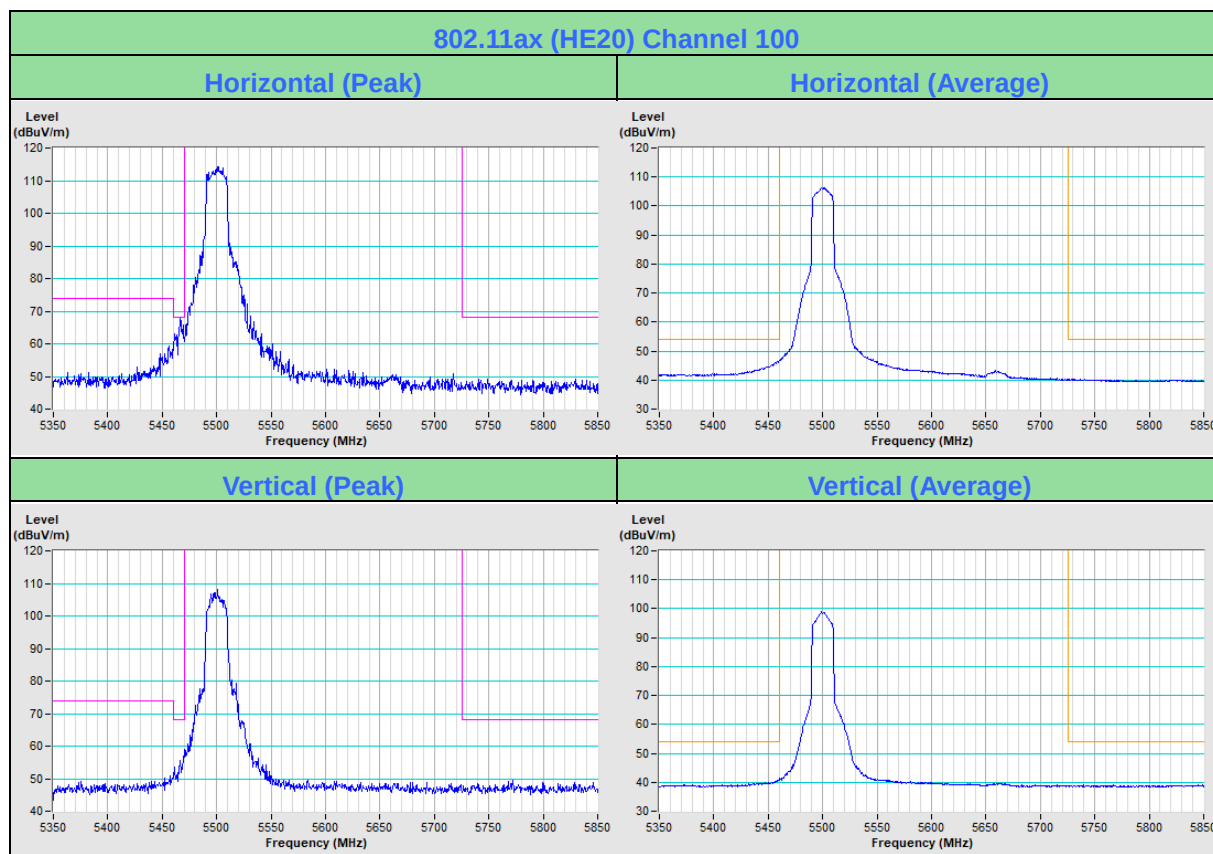


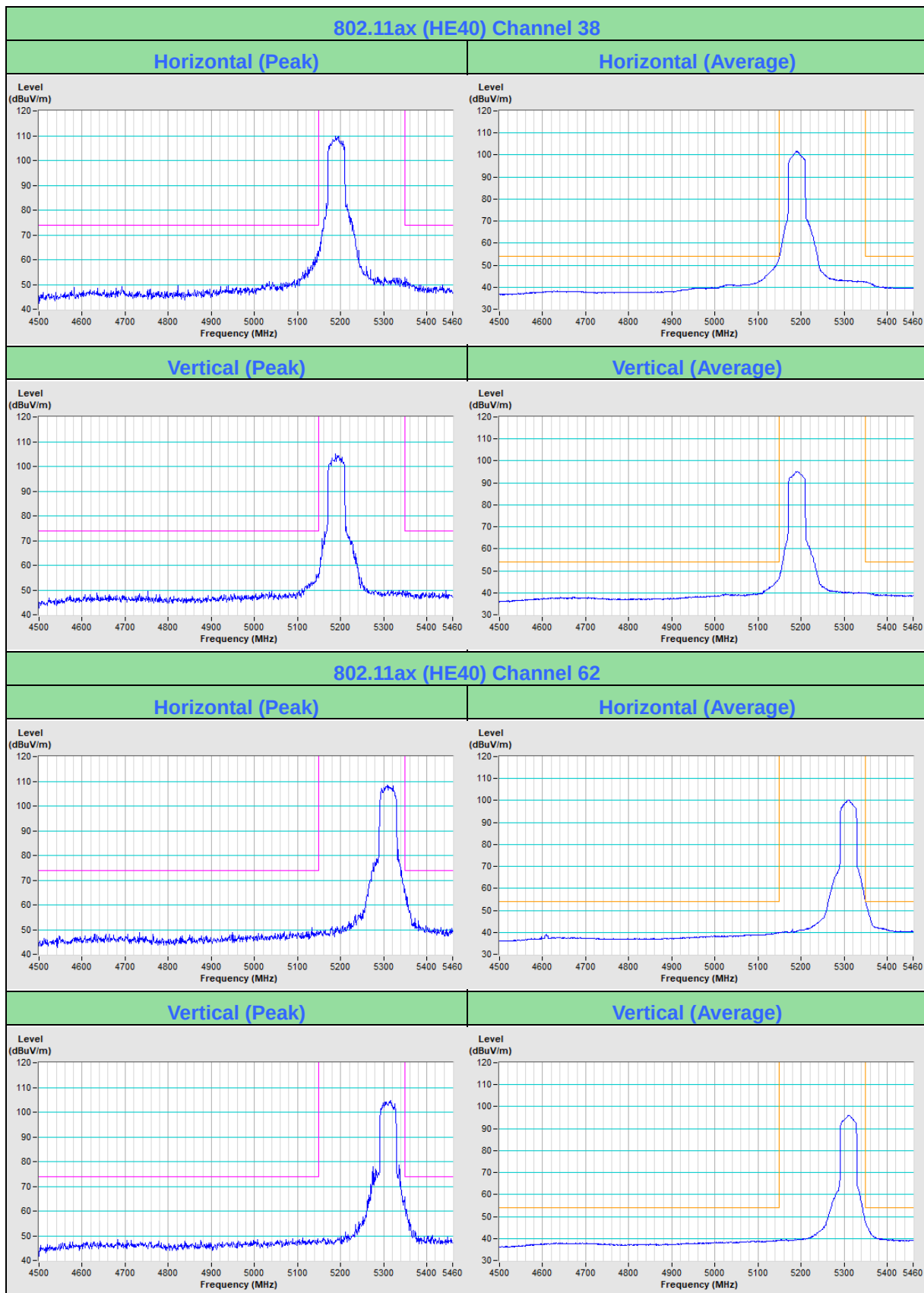
Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band)

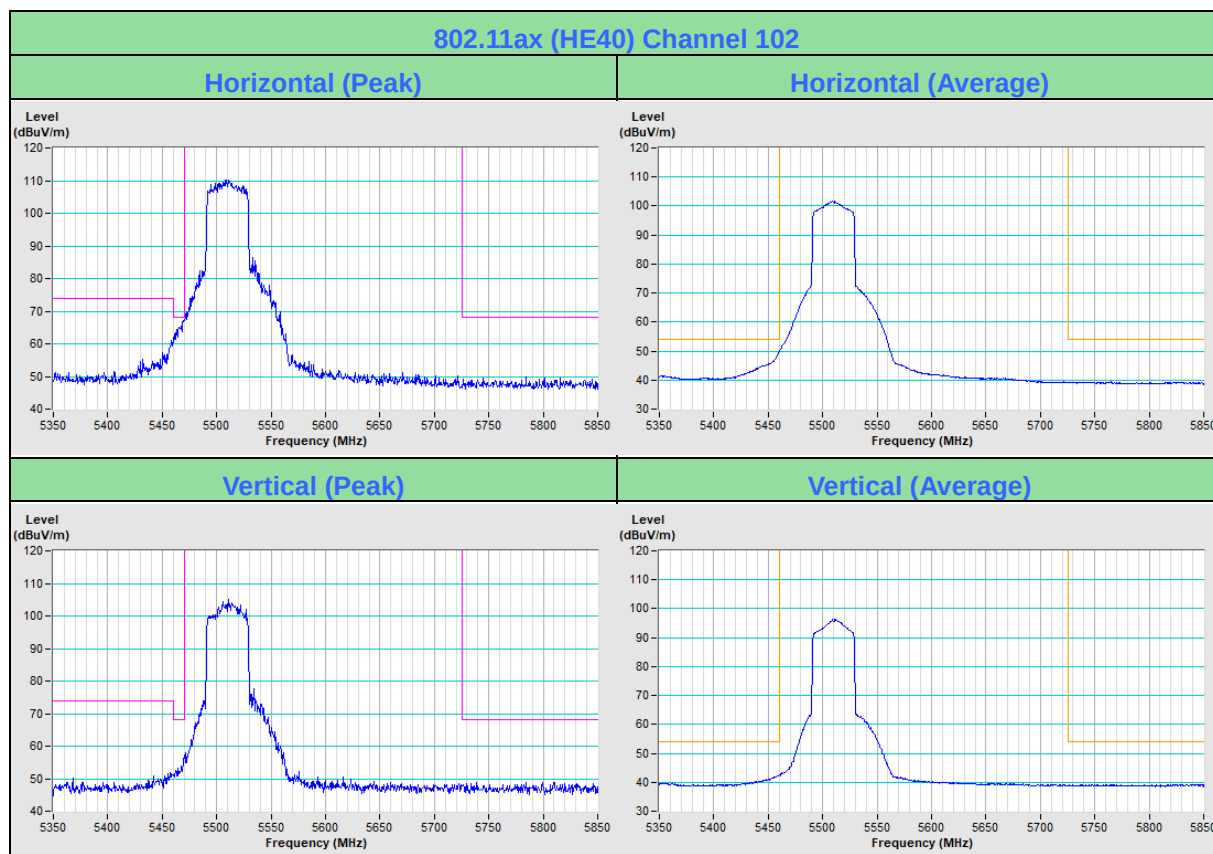


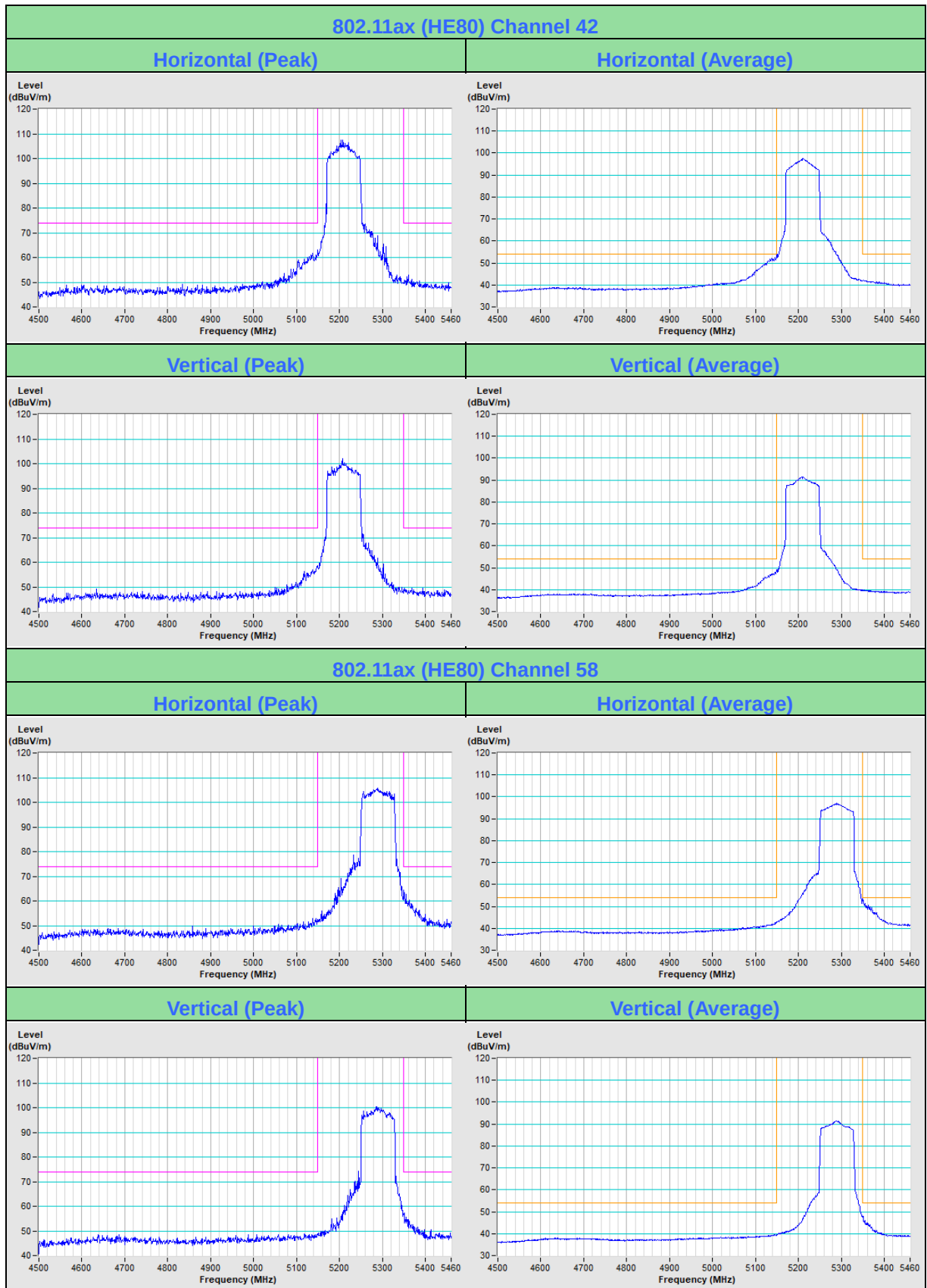


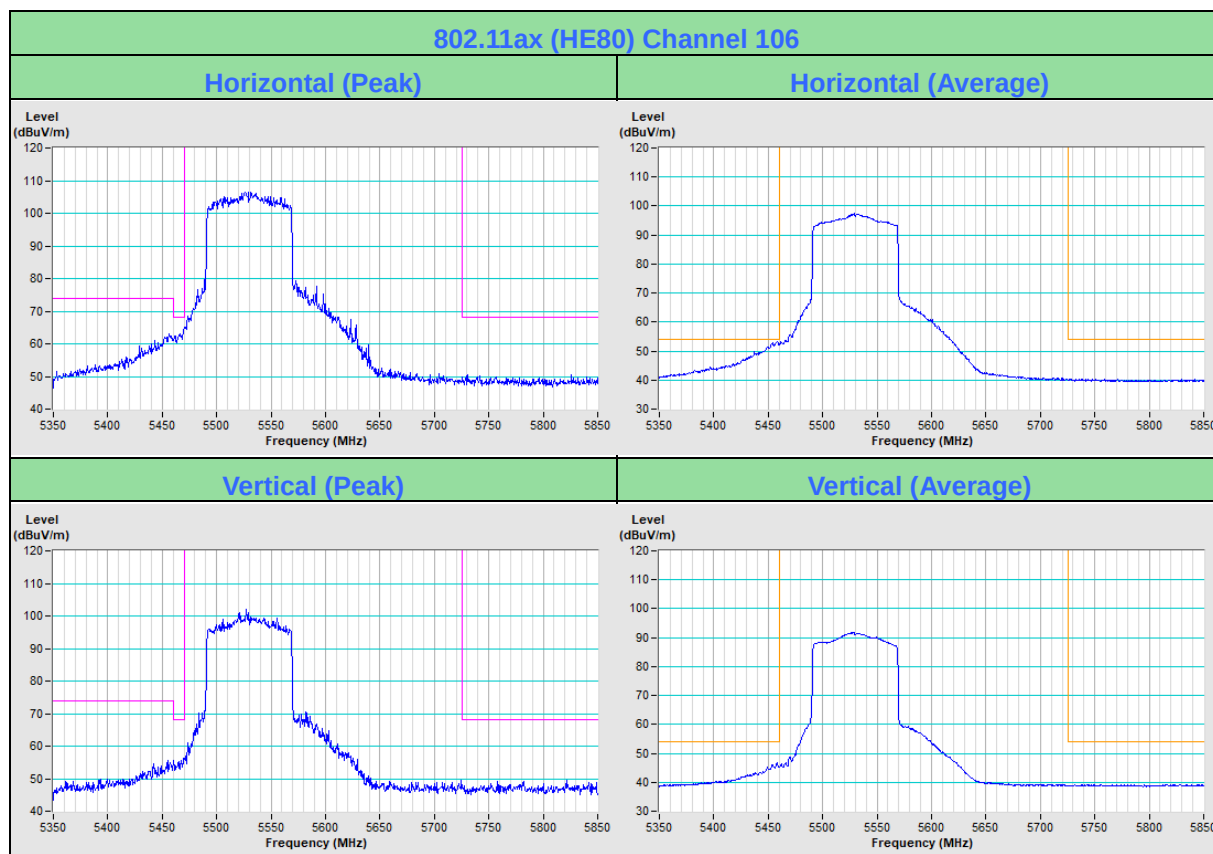


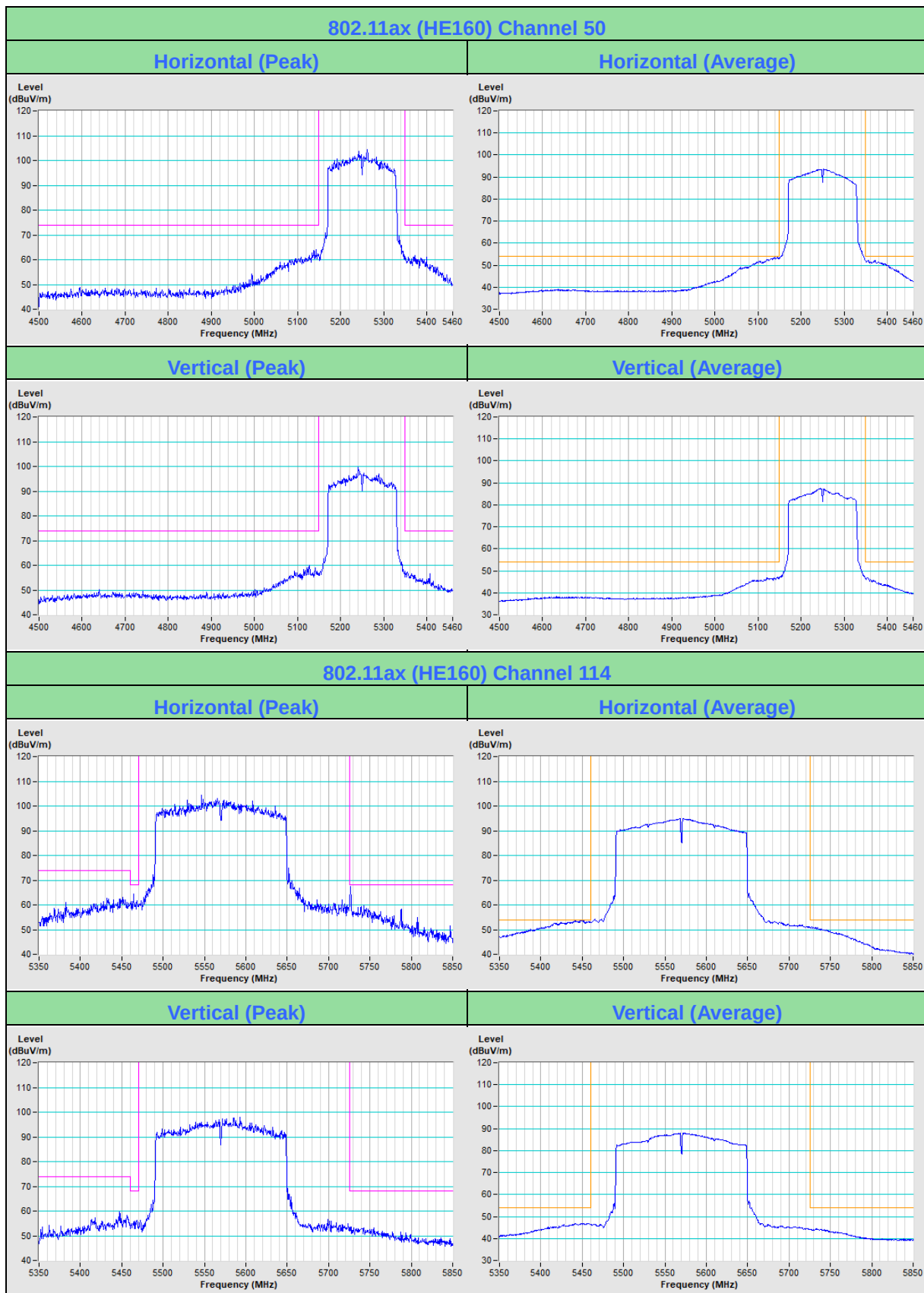


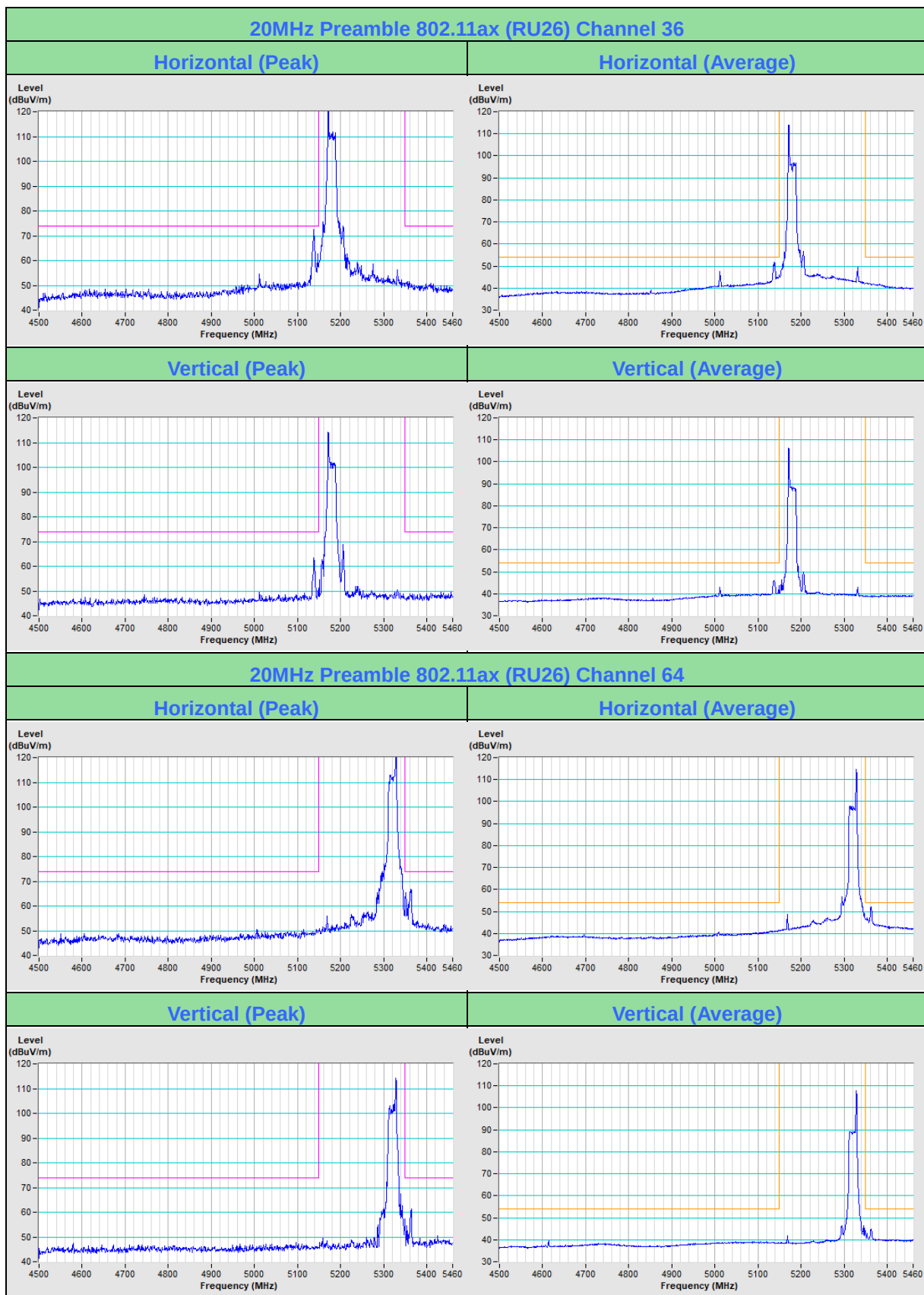






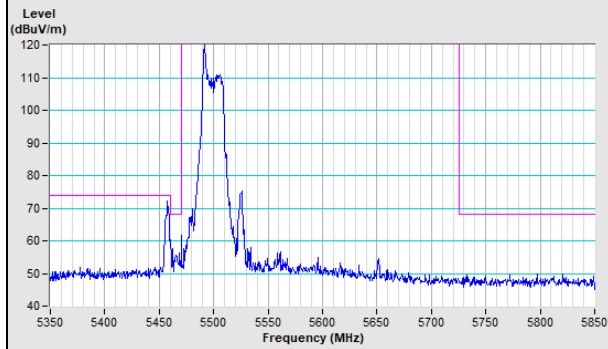




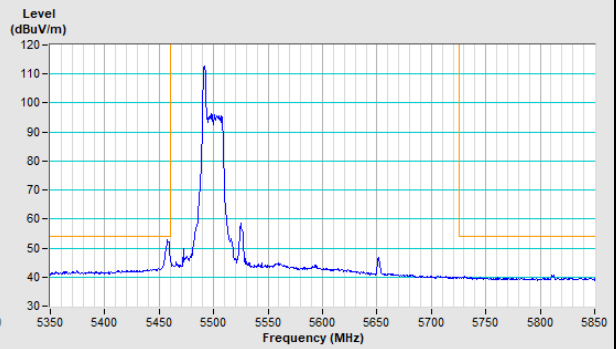


20MHz Preamble 802.11ax (RU26) Channel 100

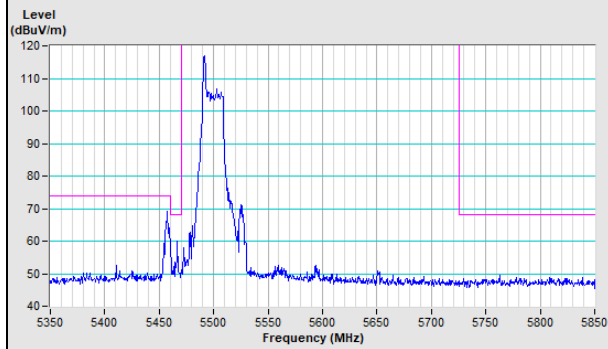
Horizontal (Peak)



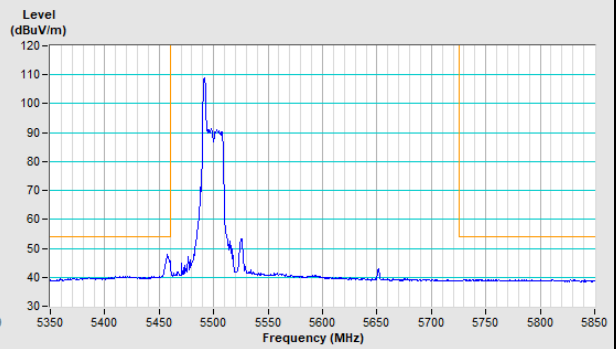
Horizontal (Average)



Vertical (Peak)

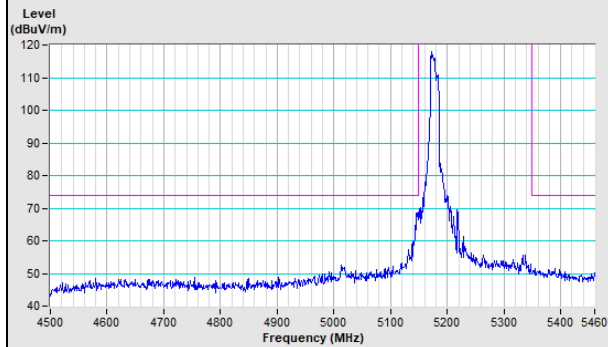


Vertical (Average)

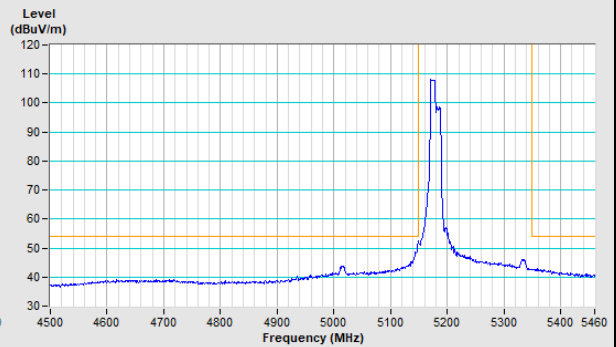


20MHz Preamble 802.11ax (RU106) Channel 36

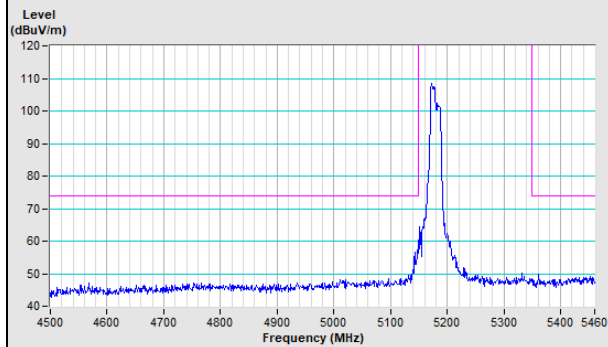
Horizontal (Peak)



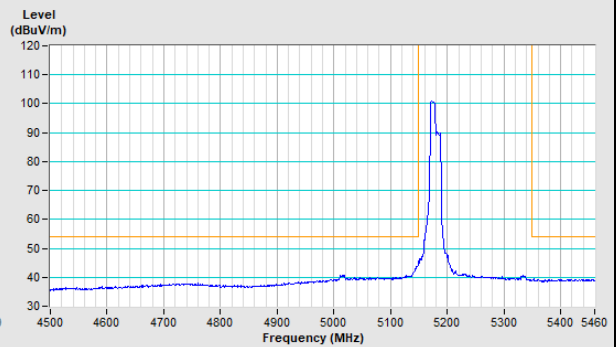
Horizontal (Average)



Vertical (Peak)

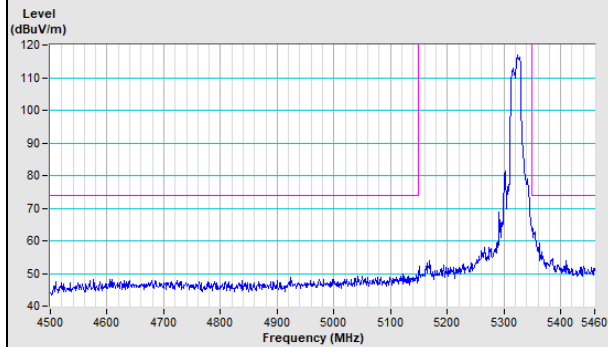


Vertical (Average)

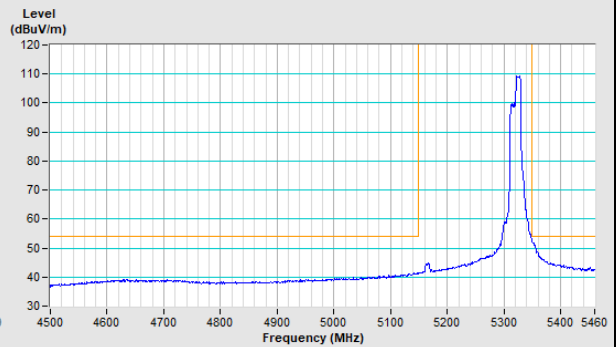


20MHz Preamble 802.11ax (RU106) Channel 64

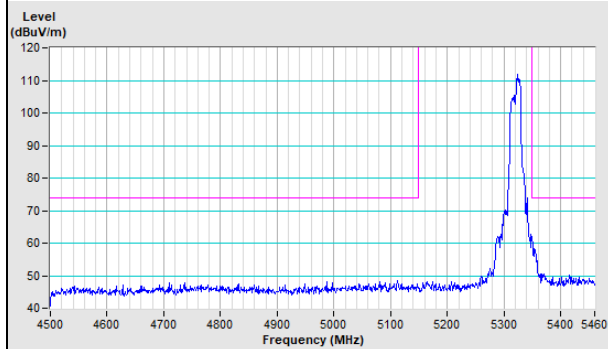
Horizontal (Peak)



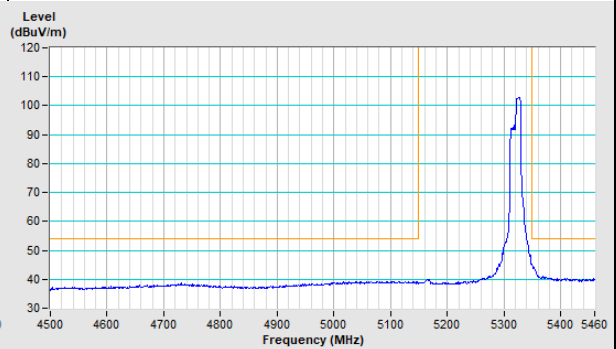
Horizontal (Average)



Vertical (Peak)

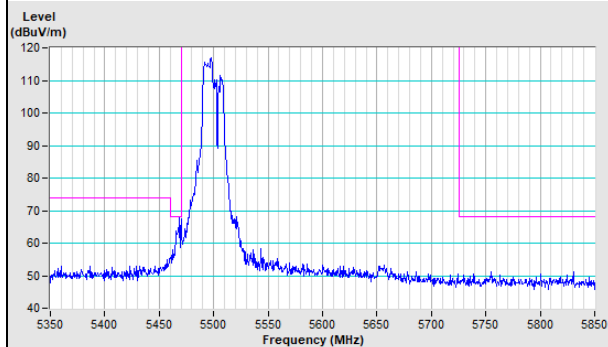


Vertical (Average)

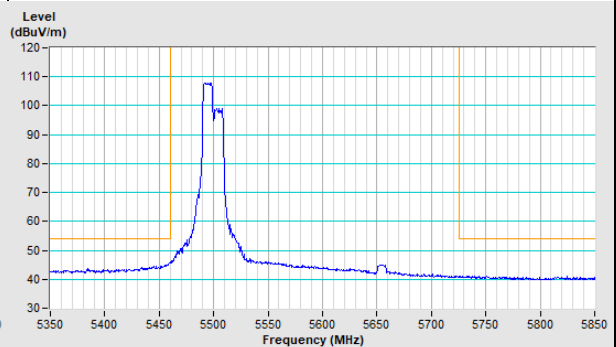


20MHz Preamble 802.11ax (RU106) Channel 100

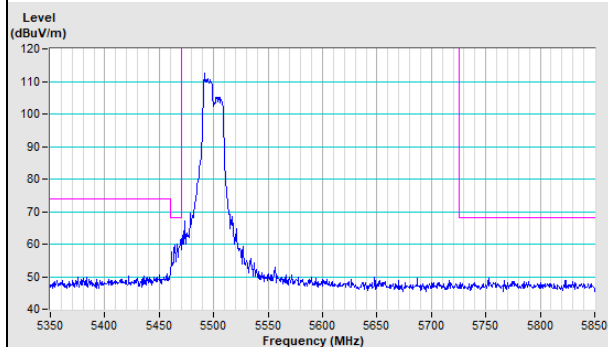
Horizontal (Peak)



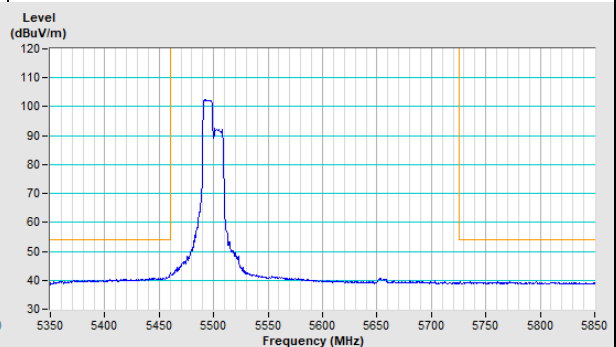
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



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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Fax: 886-3-6668323

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Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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