Partial FCC Test Report

Report No.:	RFBEDW-WTW-P21040354-3
FCC ID:	O57AX200NGW
Test Model:	AX200NGW
Received Date:	Apr. 21, 2021
Test Date:	Apr. 21 ~ Apr. 29, 2021
Issued Date:	May 21, 2021
Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
Address:	Section 304-305, Building No.4, #222, Meiyue Road, China(Shanghai) Pilot Free Trade Zone, Shanghai 200131, China
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P21040354-3	Original release	May 21, 2021

1 Certificate of Conformity

Product:	WLAN and BT , 2x2 Pcle M.2 2230 adapter card
Brand:	Intel® Wi-Fi 6 AX200
Test Model:	AX200NGW
Sample Status:	Engineering Sample
Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
Test Date:	Apr. 21 ~ Apr. 29, 2021
Standards:	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 RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** May 21, 2021
Polly Chien / Specialist

Approved by : _____ , **Date:** May 21, 2021
Bruce Chen / Senior Project Engineer

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 -17.68dB at 0.15400MHz.
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 -3.3dB at 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	N/A	Refer to Note
15.407(a)(1/2/3)	Peak Power Spectral Density	N/A	Refer to Note
15.407(e)	6dB bandwidth	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Antenna connector is MHF-B13-N-01 not a standard connector.

Note:

1. This report is a partial report, only test item of AC Power Conducted Emission, Radiated Emissions and Maximum Peak Output Power were performed for this report. Other testing data please refer to Intel report no.: 181210-03.TR01, 181210-03.TR02, and 181210-03.TR03 for module (Brand: **Intel® Wi-Fi 6 AX200** , Model: AX200NGW).
2. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.
3. 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.
4. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	WLAN and BT , 2x2 Pcle M.2 2230 adapter card
Brand	**Intel® Wi-Fi 6 AX200**
Test Model	AX200NGW
Sample Status	Engineering Sample
Nominal Voltage	3.3Vdc (from host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 300.0 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2402.0 Mbps
Operating Frequency	5180~5250MHz, 5250~5320MHz, 5500~5720MHz, 5745~5825MHz
Number of Channel	5180 ~ 5250MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 5250 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5180~5250MHz: 39.719 mW 5250~5320MHz: 39.719 mW 5500~5720MHz: 49.659 mW 5745~5825MHz: 39.719mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

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

Modulation Mode	TX Function
802.11a	1TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ax (HE20)	2TX
802.11ax (HE40)	2TX
802.11ac (VHT80)	2TX
802.11ax (HE80)	2TX
802.11ac (VHT160)	2TX
802.11ax (HE160)	2TX

* For all test items except conducted output power, the modulation and bandwidth are similar for 802.11n mode for HT20 / HT40, 802.11ac mode for VHT20 / VHT40 / VHT80 / VHT160 and 802.11ax mode for HE20 / HE40 / HE80 / HE160, therefore the investigated were worst case to representative mode in test report. (Final test mode refer section 3.2.1).

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

Product	Brand	Model
Notebook Computer	Lenovo	Lenovo 100e Chromebook Gen 3 **********
Note: *=0~9,A-Z,a~z,"-" or blank, for marketing use only, with no impact on RF compliance of the product.		

3. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	Lenovo	ADLX45YLC3D	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20.0V===2.25A, 45.0W 1.75M / 0core
Adapter 2	Lenovo	ADLX65YLC3D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V===3.25A, 65.0W 1.77M / 0core
Adapter 3	Lenovo	ADLX45YLC3D	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20.0V ===2.25A, 45.0W 1.55M / 1core
Battery	Lenovo	L20C3PG0	11.52 Vdc, 3994 mAh, 46Wh

*After pretesting, the adapter 2 was the worst case and chose for final test.

4. The following antennas were provided to the EUT.

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				BT	2400-2500MHz	5150-5350MHz	5470-5725MHz	5725-5850MHz	
PIFA	MAGLAYERS	Main	DC33002K420 (PCA-4010-25GC7-A1)	-	-2.77	-3.79	-3.51	-4.58	-
		Aux.	DC33002K420 (PCA-4010-25GC7-A1)	-3.97	-3.97	-4.83	-5.91	-6.62	
	South Star	Main	DC33002IZ20 (N12-7697-R0A)	-	-2.92	-3.92	-3.87	-4.77	MHF-B13-N-01
		Aux.	DC33002IZ20 (N12-7697-R0A)	-4.11	-4.11	-4.99	-6.02	-6.71	
* The Max antenna gain was chosen for final test.									

*For Bluetooth was fixed on Aux. antenna.

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

3.2 Description of Test Modes

5180~5250MHz:

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5250 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210MHz

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

Channel	Frequency
50	5250MHz

5250~5320MHz:

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

Channel	Frequency	Channel	Frequency
52	5250 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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

Channel	Frequency
58	5290MHz

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

Channel	Frequency
50	5250MHz

5500~5720MHz:

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

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

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

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

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

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

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

Channel	Frequency
114	5570

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	Power	
-	√	√	√	√	-

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

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

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5320	802.11a	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
-		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 to 58	42, 58	OFDMA	BPSK	MCS0
		802.11ax (HE160)	50	50	OFDMA	BPSK	MCS0
-	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
-		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
-	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-		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

Radiated Emission Test (Below 1GHz):

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5500-5720	802.11a	100 to 144	140	OFDM	BPSK	6.0

Power Line Conducted Emission Test:

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

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5500-5720	802.11a	100 to 144	140	OFDM	BPSK	6.0

Maximum Output Power Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

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

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5320	802.11a	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
		802.11n (HT20)	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.5
		802.11n (HT40)	38 to 62	38, 46, 54, 62	OFDM	BPSK	13.5
		802.11ac (VHT80)	42 to 58	42, 58	OFDM	BPSK	29.3
		802.11ac (VHT160)	50	50	OFDM	BPSK	58.5
		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 to 58	42, 58	OFDMA	BPSK	MCS0
		802.11ax (HE160)	50	50	OFDMA	BPSK	MCS0
	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
		802.11n (HT20)	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
		802.11n (HT40)	102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
		802.11ac (VHT80)	106 to 138	106, 122, 138	OFDM	BPSK	29.3
		802.11ac (VHT160)	114	114	OFDM	BPSK	58.5
		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
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	6.5
		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	13.5
		802.11ac (VHT80)	155	155	OFDM	BPSK	29.3
		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

Test Condition:

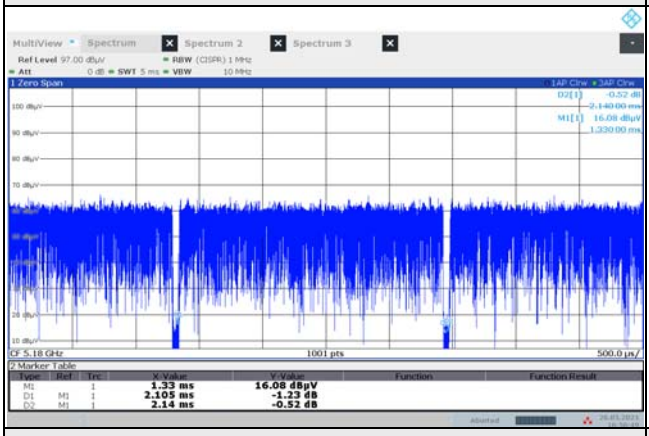
Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE≥1G	23deg. C, 67%RH	120Vac, 60Hz	Adair Peng
RE<1G	23deg. C, 67%RH	120Vac, 60Hz	Adair Peng
PLC	25deg. C, 75%RH	120Vac, 60Hz	Edison Lee
Power	23deg. C, 67%RH	120Vac, 60Hz	Adair Peng

3.3 Duty Cycle of Test Signal

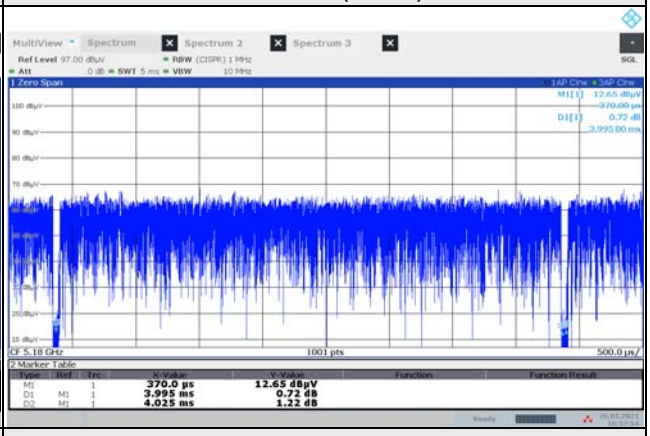
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = 2.105/2.140 = 0.984
802.11ax (HE20): Duty cycle = 3.995/4.025 = 0.993
802.11ax (HE40): Duty cycle = 3.965/4.015 = 0.988
802.11ax (HE80): Duty cycle = 4.025/4.035 = 0.998
802.11ax (HE160): Duty cycle = 2.782/2.831 = 0.983

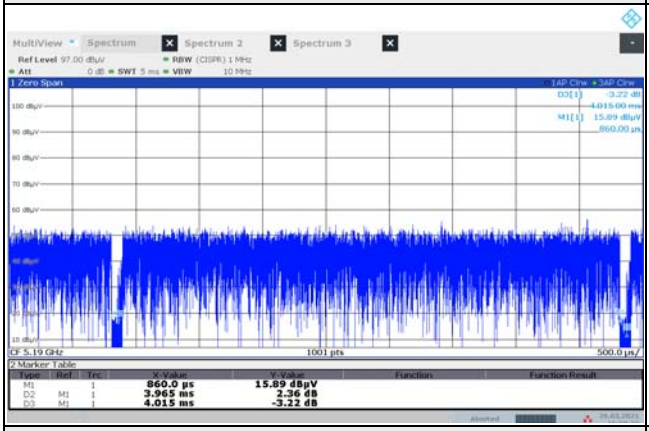
802.11a



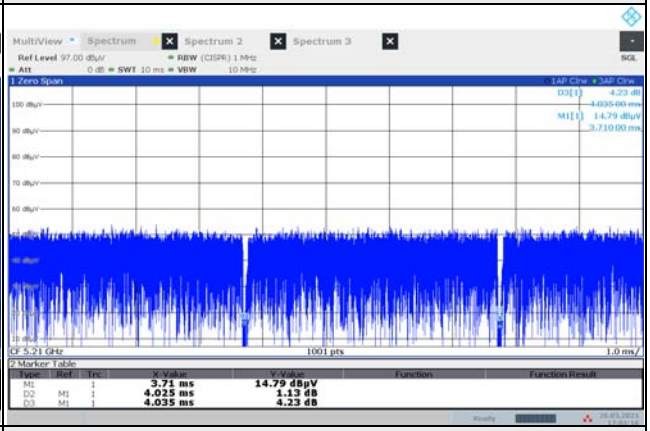
802.11ax (HE20)



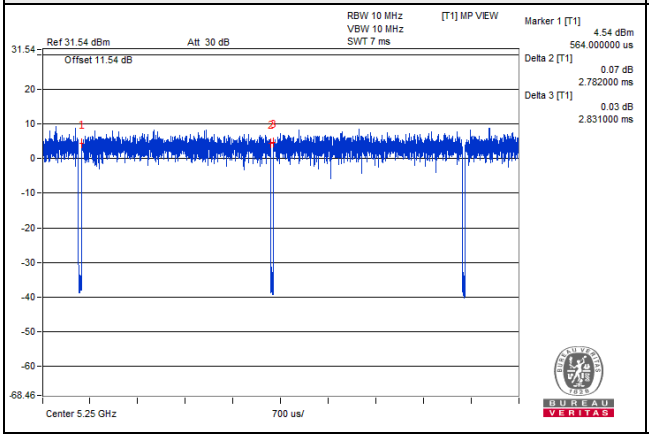
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



3.4 Description of Support Units

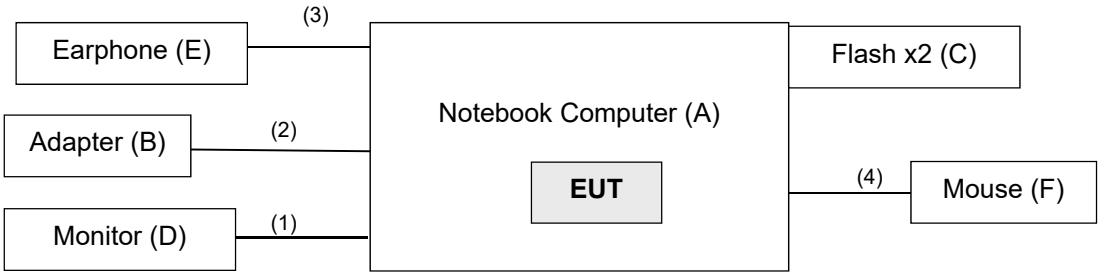
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook Computer	Lenovo	Lenovo 100e Chromebook Gen3 **********	NA	NA	Provided by Client
B.	Adapter	Lenovo	ADLX65YLC3D	NA	NA	-
C.	Flash	HP	v250W	05	NA	-
	Flash	HP	v250W	09	NA	-
D.	Monitor	DELL	SE2416Hc	CN-OWJKMC-64180-66D-013B-A00	FCC DoC Approved	-
E.	Earphone	NA	NA	NA	NA	-
F.	Mouse	Microsoft	ITE78CJ	NA	FCC DoC Approved	-

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI cable	1	1.0	N	0	Provided by Lab (Brand: Amber, Model: HDMI-AA120)
2.	Power cable	1	1.75	N	0	Provided by Client
3.	Audio cable	1	1.2	N	0	-
4.	USB cable	1	1.8	N	0	-

3.4.1 Configuration of System under 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
All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v02r01			Field Strength at 3m	
			PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4

*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:

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	9120D	209	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 22, 2021	Mar. 21, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM- SM-8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55 190004/MY5519000 7/MY55210005	Jul. 13, 2020	Jul. 12, 2021
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

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

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

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

Note:

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

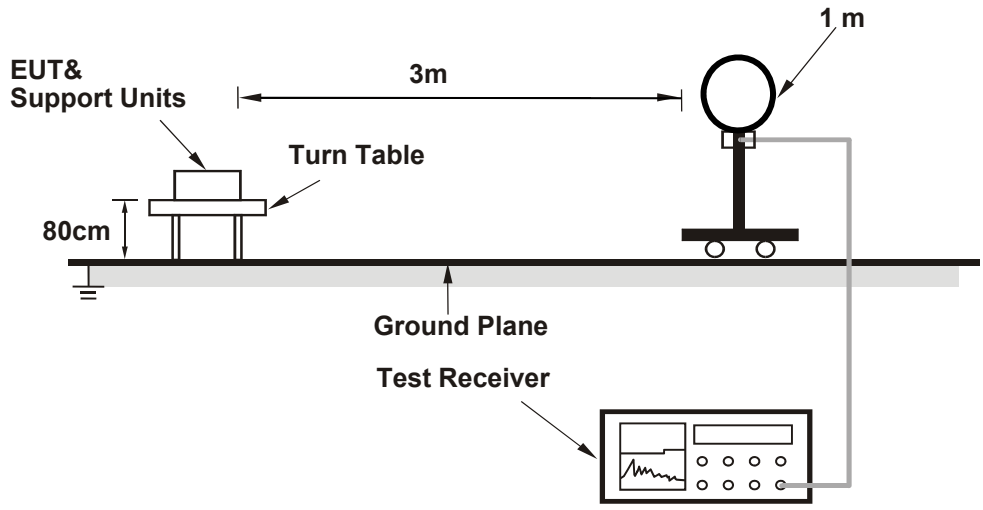
   (11a: RBW = 1 MHz, VBW = 10 Hz ; 11ax (HE20): RBW = 1 MHz, VBW = 10 Hz ;
   11ax (HE40): RBW = 1 MHz, VBW = 10 Hz ; 11ax (HE80): RBW = 1 MHz, VBW = 10 Hz ; 11ax (HE160): RBW = 1 MHz, VBW = 10 Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

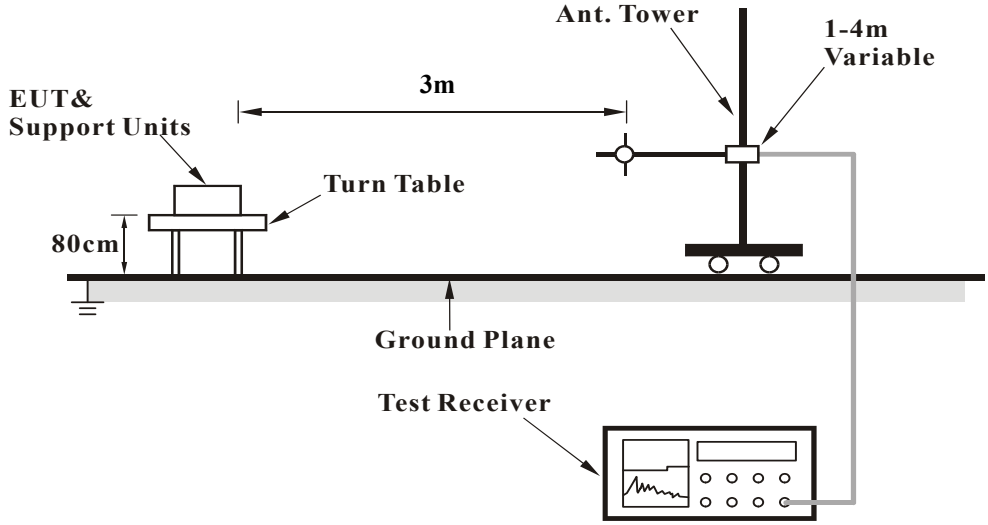
No deviation.

4.1.5 Test Set Up

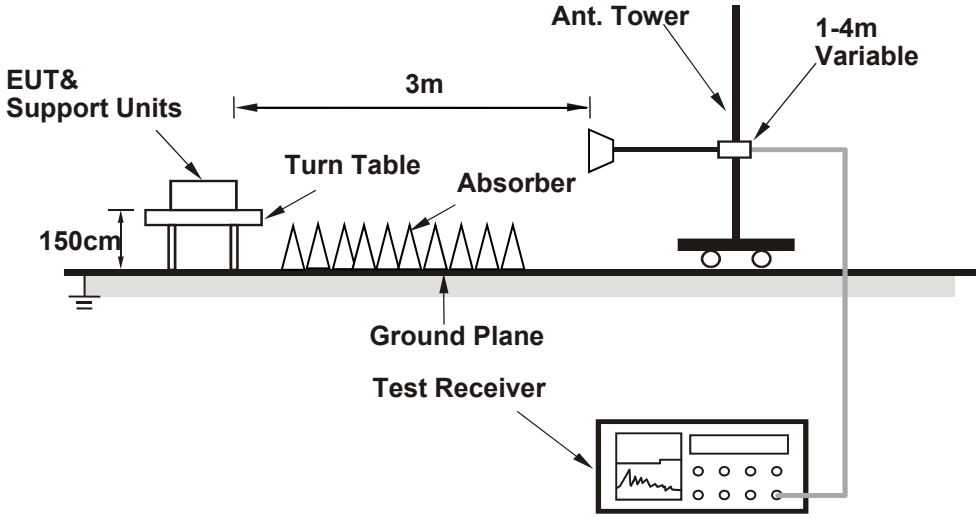
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

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

4.1.7 Test Results

Above 1GHz data:

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	58.5 PK	74.0	-15.5	1.56 H	176	55.7	2.8
2	5150.00	46.0 AV	54.0	-8.0	1.56 H	176	43.2	2.8
3	*5180.00	109.0 PK			1.56 H	176	68.0	41.0
4	*5180.00	99.8 AV			1.56 H	176	58.8	41.0
5	#10360.00	54.3 PK	68.2	-13.9	1.78 H	205	46.1	8.2
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	5150.00	59.0 PK	74.0	-15.0	3.66 V	152	56.2	2.8
2	5150.00	46.2 AV	54.0	-7.8	3.66 V	152	43.4	2.8
3	*5180.00	110.0 PK			3.66 V	152	69.0	41.0
4	*5180.00	100.5 AV			3.66 V	152	59.5	41.0
5	#10360.00	54.7 PK	68.2	-13.5	2.02 V	118	46.5	8.2

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 802.11a	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	110.1 PK			1.61 H	171	69.1	41.0
2	*5200.00	100.5 AV			1.61 H	171	59.5	41.0
3	#10400.00	54.2 PK	68.2	-14.0	1.88 H	205	46.1	8.1
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	*5200.00	111.2 PK			3.71 V	150	70.2	41.0
2	*5200.00	101.5 AV			3.71 V	150	60.5	41.0
3	#10400.00	54.7 PK	68.2	-13.5	1.98 V	121	46.6	8.1

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 48：5250 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	*5250.00	109.5 PK			1.59 H	174	68.5	41.0
2	*5250.00	100.0 AV			1.59 H	174	59.0	41.0
3	5350.00	56.6 PK	74.0	-17.4	1.59 H	174	53.7	2.9
4	5350.00	45.1 AV	54.0	-8.9	1.59 H	174	42.2	2.9
5	#10480.00	54.1 PK	68.2	-14.1	1.82 H	201	46.0	8.1
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	*5250.00	110.3 PK			3.64 V	149	69.3	41.0
2	*5250.00	100.9 AV			3.64 V	149	59.9	41.0
3	5350.00	56.7 PK	74.0	-17.3	3.64 V	149	53.8	2.9
4	5350.00	45.2 AV	54.0	-8.8	3.64 V	149	42.3	2.9
5	#10480.00	54.5 PK	68.2	-13.7	1.95 V	122	46.4	8.1

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 52：5250 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	5150.00	57.1 PK	74.0	-16.9	1.74 H	174	54.3	2.8
2	5150.00	45.0 AV	54.0	-9.0	1.74 H	174	42.2	2.8
3	*5250.00	109.5 PK			1.74 H	174	68.6	40.9
4	*5250.00	99.9 AV			1.74 H	174	59.0	40.9
5	#10520.00	54.5 PK	68.2	-13.7	1.82 H	214	46.3	8.2
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	5150.00	57.2 PK	74.0	-16.8	3.67 V	148	54.4	2.8
2	5150.00	45.1 AV	54.0	-8.9	3.67 V	148	42.3	2.8
3	*5250.00	110.2 PK			3.67 V	148	69.3	40.9
4	*5250.00	100.8 AV			3.67 V	148	59.9	40.9
5	#10520.00	54.9 PK	68.2	-13.3	2.12 V	123	46.7	8.2

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 802.11a	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	109.0 PK			1.91 H	174	68.0	41.0
2	*5300.00	99.5 AV			1.91 H	174	58.5	41.0
3	10600.00	54.5 PK	74.0	-19.5	1.84 H	219	46.4	8.1
4	10600.00	42.6 AV	54.0	-11.4	1.84 H	219	34.5	8.1
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	*5300.00	110.0 PK			3.63 V	150	69.0	41.0
2	*5300.00	100.4 AV			3.63 V	150	59.4	41.0
3	10600.00	54.7 PK	74.0	-19.3	2.04 V	117	46.6	8.1
4	10600.00	42.9 AV	54.0	-11.1	2.04 V	117	34.8	8.1

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.

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	109.0 PK			2.19 H	196	68.0	41.0
2	*5320.00	99.5 AV			2.19 H	196	58.5	41.0
3	5350.00	57.9 PK	74.0	-16.1	2.19 H	196	55.0	2.9
4	5350.00	45.4 AV	54.0	-8.6	2.19 H	196	42.5	2.9
5	10640.00	54.6 PK	74.0	-19.4	1.88 H	205	46.5	8.1
6	10640.00	42.4 AV	54.0	-11.6	1.88 H	205	34.3	8.1
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	*5320.00	110.0 PK			3.72 V	146	69.0	41.0
2	*5320.00	100.6 AV			3.72 V	146	59.6	41.0
3	5350.00	58.1 PK	74.0	-15.9	3.72 V	146	55.2	2.9
4	5350.00	45.5 AV	54.0	-8.5	3.72 V	146	42.6	2.9
5	10640.00	54.8 PK	74.0	-19.2	2.17 V	129	46.7	8.1
6	10640.00	42.7 AV	54.0	-11.3	2.17 V	129	34.6	8.1

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.

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	57.5 PK	74.0	-16.5	1.12 H	194	54.3	3.2
2	5460.00	45.5 AV	54.0	-8.5	1.12 H	194	42.3	3.2
3	#5470.00	58.2 PK	68.2	-10.0	1.12 H	194	55.0	3.2
4	*5500.00	109.3 PK			1.12 H	194	67.9	41.4
5	*5500.00	100.0 AV			1.12 H	194	58.6	41.4
6	11000.00	55.0 PK	74.0	-19.0	2.01 H	226	46.8	8.2
7	11000.00	42.7 AV	54.0	-11.3	2.01 H	226	34.5	8.2
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	56.4 PK	74.0	-17.6	3.27 V	139	53.2	3.2
2	5460.00	45.7 AV	54.0	-8.3	3.27 V	139	42.5	3.2
3	#5470.00	57.2 PK	68.2	-11.0	3.27 V	139	54.0	3.2
4	*5500.00	108.9 PK			3.27 V	139	67.5	41.4
5	*5500.00	98.9 AV			3.27 V	139	57.5	41.4
6	11000.00	54.7 PK	74.0	-19.3	1.75 V	133	46.5	8.2
7	11000.00	42.4 AV	54.0	-11.6	1.75 V	133	34.2	8.2

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 802.11a	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	109.9 PK			1.37 H	191	68.1	41.8
2	*5580.00	100.2 AV			1.37 H	191	58.4	41.8
3	11160.00	54.9 PK	74.0	-19.1	2.16 H	230	46.7	8.2
4	11160.00	42.6 AV	54.0	-11.4	2.16 H	230	34.4	8.2
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	*5580.00	110.8 PK			4.00 V	154	69.0	41.8
2	*5580.00	101.6 AV			4.00 V	154	59.8	41.8
3	11160.00	54.9 PK	74.0	-19.1	1.82 V	142	46.7	8.2
4	11160.00	42.5 AV	54.0	-11.5	1.82 V	142	34.3	8.2

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.

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	109.8 PK			1.08 H	189	67.4	42.4
2	*5700.00	100.5 AV			1.08 H	189	58.1	42.4
3	#5725.00	58.2 PK	68.2	-10.0	1.08 H	189	53.8	4.4
4	11400.00	55.5 PK	74.0	-18.5	2.21 H	213	46.7	8.8
5	11400.00	43.4 AV	54.0	-10.6	2.21 H	213	34.6	8.8
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	*5700.00	110.4 PK			2.94 V	149	68.0	42.4
2	*5700.00	101.1 AV			2.94 V	149	58.7	42.4
3	#5725.00	58.7 PK	68.2	-9.5	2.94 V	149	54.3	4.4
4	11400.00	55.5 PK	74.0	-18.5	1.77 V	129	46.7	8.8
5	11400.00	43.1 AV	54.0	-10.9	1.77 V	129	34.3	8.8

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 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	#5470.00	57.2 PK	68.2	-11.0	1.00 H	189	54.0	3.2
2	*5720.00	109.6 PK			1.67 H	189	67.2	42.4
3	*5720.00	100.5 AV			1.67 H	189	58.1	42.4
4	#5850.00	60.2 PK	68.2	-8.0	1.67 H	189	55.5	4.7
5	11440.00	55.5 PK	74.0	-18.5	2.15 H	211	46.7	8.8
6	11440.00	43.3 AV	54.0	-10.7	2.15 H	211	34.5	8.8
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	#5470.00	57.0 PK	68.2	-11.2	3.72 V	139	53.8	3.2
2	*5720.00	107.8 PK			3.72 V	139	65.4	42.4
3	*5720.00	98.5 AV			3.72 V	139	56.1	42.4
4	#5850.00	59.9 PK	68.2	-8.3	3.72 V	139	55.2	4.7
5	11440.00	55.0 PK	74.0	-19.0	2.10 V	231	46.2	8.8
6	11440.00	42.9 AV	54.0	-11.1	2.10 V	231	34.1	8.8

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 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	#5640.40	58.7 PK	68.2	-9.5	1.63 H	187	54.7	4.0
2	*5745.00	110.1 PK			1.63 H	187	67.6	42.5
3	*5745.00	100.7 AV			1.63 H	187	58.2	42.5
4	#5927.20	59.9 PK	68.2	-8.3	1.63 H	187	55.1	4.8
5	11490.00	55.6 PK	74.0	-18.4	2.22 H	212	46.9	8.7
6	11490.00	44.5 AV	54.0	-9.5	2.22 H	212	35.8	8.7
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	#5644.80	58.9 PK	68.2	-9.3	2.43 V	143	54.8	4.1
2	*5745.00	108.7 PK			2.43 V	143	66.2	42.5
3	*5745.00	99.1 AV			2.43 V	143	56.6	42.5
4	#5999.60	59.2 PK	68.2	-9.0	2.43 V	143	54.3	4.9
5	11490.00	55.3 PK	74.0	-18.7	1.89 V	139	46.6	8.7
6	11490.00	44.1 AV	54.0	-9.9	1.89 V	139	35.4	8.7

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 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	#5608.00	59.0 PK	68.2	-9.2	1.70 H	186	55.2	3.8
2	*5785.00	109.6 PK			1.70 H	186	67.0	42.6
3	*5785.00	100.6 AV			1.70 H	186	58.0	42.6
4	#5997.60	59.5 PK	68.2	-8.7	1.70 H	186	54.6	4.9
5	11570.00	55.6 PK	74.0	-18.4	2.09 H	211	47.0	8.6
6	11570.00	44.4 AV	54.0	-9.6	2.09 H	211	35.8	8.6
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	#5611.60	58.8 PK	68.2	-9.4	3.70 V	102	55.0	3.8
2	*5785.00	109.8 PK			3.70 V	102	67.2	42.6
3	*5785.00	99.6 AV			3.70 V	102	57.0	42.6
4	#5964.00	59.0 PK	68.2	-9.2	3.70 V	102	54.2	4.8
5	11570.00	55.2 PK	74.0	-18.8	1.91 V	129	46.6	8.6
6	11570.00	44.1 AV	54.0	-9.9	1.91 V	129	35.5	8.6

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 802.11a	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	#5610.40	58.5 PK	68.2	-9.7	3.03 H	189	54.7	3.8
2	*5825.00	110.7 PK			3.03 H	189	68.0	42.7
3	*5825.00	101.3 AV			3.03 H	189	58.6	42.7
4	#5975.20	59.5 PK	68.2	-8.7	3.03 H	189	54.7	4.8
5	11650.00	55.6 PK	74.0	-18.4	2.03 H	217	46.9	8.7
6	11650.00	44.5 AV	54.0	-9.5	2.03 H	217	35.8	8.7
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	#5645.60	58.8 PK	68.2	-9.4	3.63 V	102	54.7	4.1
2	*5825.00	108.7 PK			3.63 V	102	66.0	42.7
3	*5825.00	99.5 AV			3.63 V	102	56.8	42.7
4	#5988.80	59.1 PK	68.2	-9.1	3.63 V	102	54.2	4.9
5	11650.00	55.2 PK	74.0	-18.8	1.99 V	122	46.5	8.7
6	11650.00	44.0 AV	54.0	-10.0	1.99 V	122	35.3	8.7

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 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	59.3 PK	74.0	-14.7	1.43 H	263	56.5	2.8
2	5150.00	46.8 AV	54.0	-7.2	1.43 H	263	44.0	2.8
3	*5180.00	114.0 PK			1.43 H	263	73.0	41.0
4	*5180.00	101.9 AV			1.43 H	263	60.9	41.0
5	#10360.00	55.2 PK	68.2	-13.0	1.85 H	229	47.0	8.2
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	5150.00	59.8 PK	74.0	-14.2	3.35 V	145	57.0	2.8
2	5150.00	47.2 AV	54.0	-6.8	3.35 V	145	44.4	2.8
3	*5180.00	111.5 PK			3.35 V	145	70.5	41.0
4	*5180.00	99.4 AV			3.35 V	145	58.4	41.0
5	#10360.00	54.7 PK	68.2	-13.5	1.65 V	142	46.5	8.2

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	112.7 PK			1.35 H	259	71.7	41.0
2	*5200.00	101.6 AV			1.35 H	259	60.6	41.0
3	#10400.00	55.0 PK	68.2	-13.2	1.91 H	231	46.9	8.1
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	*5200.00	110.1 PK			3.41 V	150	69.1	41.0
2	*5200.00	99.1 AV			3.41 V	150	58.1	41.0
3	#10400.00	54.4 PK	68.2	-13.8	1.70 V	152	46.3	8.1

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 48：5250 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	*5250.00	114.3 PK			1.30 H	258	73.3	41.0
2	*5250.00	101.7 AV			1.30 H	258	60.7	41.0
3	5350.00	58.2 PK	74.0	-15.8	1.30 H	258	55.3	2.9
4	5350.00	45.1 AV	54.0	-8.9	1.30 H	258	42.2	2.9
5	#10480.00	55.0 PK	68.2	-13.2	1.88 H	225	46.9	8.1
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	*5250.00	112.4 PK			3.10 V	166	71.4	41.0
2	*5250.00	100.7 AV			3.10 V	166	59.7	41.0
3	5350.00	57.7 PK	74.0	-16.3	3.10 V	166	54.8	2.9
4	5350.00	45.0 AV	54.0	-9.0	3.10 V	166	42.1	2.9
5	#10480.00	54.4 PK	68.2	-13.8	1.69 V	138	46.3	8.1

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 52：5250 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	5150.00	57.9 PK	74.0	-16.1	1.86 H	174	55.1	2.8
2	5150.00	44.9 AV	54.0	-9.1	1.86 H	174	42.1	2.8
3	*5250.00	111.6 PK			1.86 H	174	70.7	40.9
4	*5250.00	100.4 AV			1.86 H	174	59.5	40.9
5	#10520.00	55.0 PK	68.2	-13.2	1.91 H	235	46.8	8.2
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	5150.00	57.9 PK	74.0	-16.1	3.19 V	166	55.1	2.8
2	5150.00	44.8 AV	54.0	-9.2	3.19 V	166	42.0	2.8
3	*5250.00	112.2 PK			3.19 V	166	71.3	40.9
4	*5250.00	100.2 AV			3.19 V	166	59.3	40.9
5	#10520.00	54.5 PK	68.2	-13.7	1.71 V	139	46.3	8.2

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	112.3 PK			3.36 H	190	71.3	41.0
2	*5300.00	101.1 AV			3.36 H	190	60.1	41.0
3	10600.00	54.9 PK	74.0	-19.1	1.99 H	223	46.8	8.1
4	10600.00	42.7 AV	54.0	-11.3	1.99 H	223	34.6	8.1
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	*5300.00	111.4 PK			3.25 V	164	70.4	41.0
2	*5300.00	100.2 AV			3.25 V	164	59.2	41.0
3	10600.00	54.5 PK	74.0	-19.5	1.77 V	142	46.4	8.1
4	10600.00	42.4 AV	54.0	-11.6	1.77 V	142	34.3	8.1

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.

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	112.2 PK			3.44 H	187	71.2	41.0
2	*5320.00	100.8 AV			3.44 H	187	59.8	41.0
3	5350.00	57.6 PK	74.0	-16.4	3.44 H	187	54.7	2.9
4	5350.00	45.5 AV	54.0	-8.5	3.44 H	187	42.6	2.9
5	10640.00	55.0 PK	74.0	-19.0	2.05 H	211	46.9	8.1
6	10640.00	42.6 AV	54.0	-11.4	2.05 H	211	34.5	8.1
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	*5320.00	110.2 PK			3.44 V	165	69.2	41.0
2	*5320.00	99.6 AV			3.44 V	165	58.6	41.0
3	5350.00	57.1 PK	74.0	-16.9	3.44 V	165	54.2	2.9
4	5350.00	45.5 AV	54.0	-8.5	3.44 V	165	42.6	2.9
5	10640.00	54.7 PK	74.0	-19.3	1.80 V	140	46.6	8.1
6	10640.00	42.2 AV	54.0	-11.8	1.80 V	140	34.1	8.1

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.

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	57.7 PK	74.0	-16.3	1.35 H	259	54.5	3.2
2	5460.00	45.8 AV	54.0	-8.2	1.35 H	259	42.6	3.2
3	#5470.00	58.6 PK	68.2	-9.6	1.35 H	259	55.4	3.2
4	*5500.00	108.5 PK			1.35 H	259	67.1	41.4
5	*5500.00	97.7 AV			1.35 H	259	56.3	41.4
6	11000.00	54.7 PK	74.0	-19.3	2.06 H	210	46.5	8.2
7	11000.00	42.5 AV	54.0	-11.5	2.06 H	210	34.3	8.2
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	57.6 PK	74.0	-16.4	3.54 V	162	54.4	3.2
2	5460.00	45.6 AV	54.0	-8.4	3.54 V	162	42.4	3.2
3	#5470.00	58.4 PK	68.2	-9.8	3.54 V	162	55.2	3.2
4	*5500.00	109.4 PK			3.54 V	162	68.0	41.4
5	*5500.00	97.1 AV			3.54 V	162	55.7	41.4
6	11000.00	54.9 PK	74.0	-19.1	1.83 V	125	46.7	8.2
7	11000.00	42.7 AV	54.0	-11.3	1.83 V	125	34.5	8.2

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	109.1 PK			1.38 H	255	67.3	41.8
2	*5580.00	98.2 AV			1.38 H	255	56.4	41.8
3	11160.00	54.6 PK	74.0	-19.4	2.09 H	214	46.4	8.2
4	11160.00	42.7 AV	54.0	-11.3	2.09 H	214	34.5	8.2
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	*5580.00	109.9 PK			3.53 V	169	68.1	41.8
2	*5580.00	97.7 AV			3.53 V	169	55.9	41.8
3	11160.00	54.7 PK	74.0	-19.3	1.88 V	130	46.5	8.2
4	11160.00	42.8 AV	54.0	-11.2	1.88 V	130	34.6	8.2

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.

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	109.5 PK			1.20 H	212	67.1	42.4
2	*5700.00	98.8 AV			1.20 H	212	56.4	42.4
3	#5725.00	59.0 PK	68.2	-9.2	1.20 H	212	54.6	4.4
4	11400.00	55.4 PK	74.0	-18.6	2.16 H	212	46.6	8.8
5	11400.00	43.3 AV	54.0	-10.7	2.16 H	212	34.5	8.8
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	*5700.00	108.7 PK			3.54 V	163	66.3	42.4
2	*5700.00	97.8 AV			3.54 V	163	55.4	42.4
3	#5725.00	58.7 PK	68.2	-9.5	3.54 V	163	54.3	4.4
4	11400.00	55.3 PK	74.0	-18.7	1.88 V	136	46.5	8.8
5	11400.00	43.0 AV	54.0	-11.0	1.88 V	136	34.2	8.8

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 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	#5470.00	56.6 PK	68.2	-11.6	1.18 H	234	53.4	3.2
2	*5720.00	108.9 PK			1.18 H	234	66.5	42.4
3	*5720.00	98.5 AV			1.18 H	234	56.1	42.4
4	#5850.00	60.3 PK	68.2	-7.9	1.18 H	234	55.6	4.7
5	11440.00	55.5 PK	74.0	-18.5	2.11 H	216	46.7	8.8
6	11440.00	43.1 AV	54.0	-10.9	2.11 H	216	34.3	8.8
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	#5470.00	57.4 PK	68.2	-10.8	3.50 V	159	54.2	3.2
2	*5720.00	108.1 PK			3.50 V	159	65.7	42.4
3	*5720.00	97.8 AV			3.50 V	159	55.4	42.4
4	#5850.00	59.9 PK	68.2	-8.3	3.50 V	159	55.2	4.7
5	11440.00	55.3 PK	74.0	-18.7	1.90 V	126	46.5	8.8
6	11440.00	42.9 AV	54.0	-11.1	1.90 V	126	34.1	8.8

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 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	#5631.20	58.4 PK	68.2	-9.8	1.09 H	189	54.4	4.0
2	*5745.00	112.7 PK			1.09 H	189	70.2	42.5
3	*5745.00	101.7 AV			1.09 H	189	59.2	42.5
4	#5939.20	60.3 PK	68.2	-7.9	1.09 H	189	55.5	4.8
5	11490.00	55.3 PK	74.0	-18.7	2.17 H	220	46.6	8.7
6	11490.00	44.3 AV	54.0	-9.7	2.17 H	220	35.6	8.7
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	#5623.60	58.2 PK	68.2	-10.0	3.84 V	199	54.3	3.9
2	*5745.00	110.7 PK			3.84 V	199	68.2	42.5
3	*5745.00	98.3 AV			3.84 V	199	55.8	42.5
4	#5929.20	58.9 PK	68.2	-9.3	3.48 V	199	54.1	4.8
5	11490.00	55.0 PK	74.0	-19.0	1.91 V	132	46.3	8.7
6	11490.00	44.2 AV	54.0	-9.8	1.91 V	132	35.5	8.7

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 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	#5648.80	58.4 PK	68.2	-9.8	1.05 H	188	54.3	4.1
2	*5785.00	113.7 PK			1.05 H	188	71.1	42.6
3	*5785.00	101.8 AV			1.05 H	188	59.2	42.6
4	#5926.40	59.3 PK	68.2	-8.9	1.05 H	188	54.5	4.8
5	11570.00	55.5 PK	74.0	-18.5	2.12 H	215	46.9	8.6
6	11570.00	44.4 AV	54.0	-9.6	2.12 H	215	35.8	8.6
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	#5630.80	58.7 PK	68.2	-9.5	3.85 V	200	54.7	4.0
2	*5785.00	108.8 PK			3.85 V	200	66.2	42.6
3	*5785.00	97.9 AV			3.85 V	200	55.3	42.6
4	#5944.80	59.3 PK	68.2	-8.9	3.58 V	200	54.5	4.8
5	11570.00	55.1 PK	74.0	-18.9	1.92 V	125	46.5	8.6
6	11570.00	44.2 AV	54.0	-9.8	1.92 V	125	35.6	8.6

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 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	#5638.40	58.6 PK	68.2	-9.6	1.35 H	190	54.6	4.0
2	*5825.00	112.3 PK			1.35 H	190	69.6	42.7
3	*5825.00	101.5 AV			1.35 H	190	58.8	42.7
4	#5973.60	60.1 PK	68.2	-8.1	1.35 H	190	55.3	4.8
5	11650.00	55.7 PK	74.0	-18.3	2.23 H	212	47.0	8.7
6	11650.00	44.6 AV	54.0	-9.4	2.23 H	212	35.9	8.7
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	#5626.40	58.9 PK	68.2	-9.3	3.02 V	212	54.9	4.0
2	*5825.00	109.2 PK			3.02 V	212	66.5	42.7
3	*5825.00	97.4 AV			3.02 V	212	54.7	42.7
4	#5953.60	58.9 PK	68.2	-9.3	3.02 V	212	54.1	4.8
5	11650.00	55.2 PK	74.0	-18.8	1.89 V	123	46.5	8.7
6	11650.00	44.2 AV	54.0	-9.8	1.89 V	123	35.5	8.7

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 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	63.1 PK	74.0	-10.9	1.53 H	267	60.3	2.8
2	**5150.00**	**50.7 AV**	**54.0**	**-3.3**	**1.53 H**	**267**	**47.9**	**2.8**
3	*5190.00	110.7 PK			1.53 H	267	69.7	41.0
4	*5190.00	98.6 AV			1.53 H	267	57.6	41.0
5	#10380.00	54.9 PK	68.2	-13.3	1.93 H	239	46.8	8.1
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	5150.00	60.6 PK	74.0	-13.4	3.24 V	167	57.8	2.8
2	5150.00	49.1 AV	54.0	-4.9	3.24 V	167	46.3	2.8
3	*5190.00	108.0 PK			3.24 V	167	67.0	41.0
4	*5190.00	96.5 AV			3.24 V	167	55.5	41.0
5	#10380.00	54.5 PK	68.2	-13.7	1.79 V	152	46.4	8.1

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	*5230.00	109.5 PK			1.25 H	261	68.5	41.0
2	*5230.00	98.0 AV			1.25 H	261	57.0	41.0
3	5350.00	57.4 PK	74.0	-16.6	1.25 H	261	54.5	2.9
4	5350.00	45.1 AV	54.0	-8.9	1.25 H	261	42.2	2.9
5	#10460.00	54.8 PK	68.2	-13.4	1.88 H	227	46.8	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	108.1 PK			3.17 V	167	67.1	41.0
2	*5230.00	97.1 AV			3.17 V	167	56.1	41.0
3	5350.00	56.4 PK	74.0	-17.6	3.17 V	167	53.5	2.9
4	5350.00	45.0 AV	54.0	-9.0	3.17 V	167	42.1	2.9
5	#10460.00	54.3 PK	68.2	-13.9	1.62 V	141	46.3	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	57.3 PK	74.0	-16.7	3.47 H	190	54.5	2.8
2	5150.00	44.8 AV	54.0	-9.2	3.47 H	190	42.0	2.8
3	*5270.00	109.0 PK			3.47 H	190	68.0	41.0
4	*5270.00	96.9 AV			3.47 H	190	55.9	41.0
5	#10540.00	55.2 PK	68.2	-13.0	1.96 H	202	47.0	8.2
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	5150.00	57.0 PK	74.0	-17.0	3.14 V	166	54.2	2.8
2	5150.00	44.9 AV	54.0	-9.1	3.14 V	166	42.1	2.8
3	*5270.00	108.8 PK			3.14 V	166	67.8	41.0
4	*5270.00	96.8 AV			3.14 V	166	55.8	41.0
5	#10540.00	54.8 PK	68.2	-13.4	1.79 V	138	46.6	8.2

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 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	108.5 PK			3.62 H	189	67.5	41.0
2	*5310.00	97.4 AV			3.62 H	189	56.4	41.0
3	5350.00	58.8 PK	74.0	-15.2	3.62 H	189	55.9	2.9
4	5350.00	47.1 AV	54.0	-6.9	3.62 H	189	44.2	2.9
5	10620.00	54.9 PK	74.0	-19.1	2.15 H	202	46.8	8.1
6	10620.00	42.6 AV	54.0	-11.4	2.15 H	202	34.5	8.1
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	*5310.00	108.0 PK			3.31 V	164	67.0	41.0
2	*5310.00	96.4 AV			3.31 V	164	55.4	41.0
3	5350.00	59.9 PK	74.0	-14.1	3.31 V	164	57.0	2.9
4	5350.00	48.1 AV	54.0	-5.9	3.31 V	164	45.2	2.9
5	10620.00	54.7 PK	74.0	-19.3	1.75 V	142	46.6	8.1
6	10620.00	42.4 AV	54.0	-11.6	1.75 V	142	34.3	8.1

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.

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	59.2 PK	74.0	-14.8	1.35 H	257	56.0	3.2
2	5460.00	47.5 AV	54.0	-6.5	1.35 H	257	44.3	3.2
3	#5470.00	62.7 PK	68.2	-5.5	1.35 H	257	59.5	3.2
4	*5510.00	110.6 PK			1.35 H	257	69.1	41.5
5	*5510.00	98.3 AV			1.35 H	257	56.8	41.5
6	11020.00	57.0 PK	74.0	-17.0	1.91 H	195	48.8	8.2
7	11020.00	45.1 AV	54.0	-8.9	1.91 H	195	36.9	8.2
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	58.4 PK	74.0	-15.6	3.08 V	156	55.2	3.2
2	5460.00	47.0 AV	54.0	-7.0	3.08 V	156	43.8	3.2
3	#5470.00	60.9 PK	68.2	-7.3	3.08 V	156	57.7	3.2
4	*5510.00	109.0 PK			3.08 V	156	67.5	41.5
5	*5510.00	97.8 AV			3.08 V	156	56.3	41.5
6	11020.00	56.6 PK	74.0	-17.4	1.81 V	135	48.4	8.2
7	11020.00	44.7 AV	54.0	-9.3	1.81 V	135	36.5	8.2

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 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	111.9 PK			1.36 H	191	70.2	41.7
2	*5550.00	99.2 AV			1.36 H	191	57.5	41.7
3	11000.00	57.1 PK	74.0	-16.9	2.02 H	199	48.9	8.2
4	11000.00	45.2 AV	54.0	-8.8	2.02 H	199	37.0	8.2
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	*5550.00	110.1 PK			3.22 V	154	68.4	41.7
2	*5550.00	97.9 AV			3.22 V	154	56.2	41.7
3	11000.00	56.5 PK	74.0	-17.5	1.86 V	129	48.3	8.2
4	11000.00	44.8 AV	54.0	-9.2	1.86 V	129	36.6	8.2

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.

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	111.2 PK			1.50 H	207	69.0	42.2
2	*5670.00	99.7 AV			1.50 H	207	57.5	42.2
3	#5725.00	61.0 PK	68.2	-7.2	1.50 H	207	56.6	4.4
4	11340.00	57.7 PK	74.0	-16.3	2.14 H	198	49.1	8.6
5	11340.00	45.7 AV	54.0	-8.3	2.14 H	198	37.1	8.6
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	*5670.00	108.6 PK			2.96 V	148	66.4	42.2
2	*5670.00	97.3 AV			2.96 V	148	55.1	42.2
3	#5725.00	60.4 PK	68.2	-7.8	2.96 V	148	56.0	4.4
4	11340.00	57.4 PK	74.0	-16.6	1.90 V	130	48.8	8.6
5	11340.00	45.2 AV	54.0	-8.8	1.90 V	130	36.6	8.6

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 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	#5470.00	60.0 PK	68.2	-8.2	1.51 H	206	56.8	3.2
2	*5710.00	111.4 PK			1.51 H	206	69.0	42.4
3	*5710.00	98.8 AV			1.51 H	206	56.4	42.4
4	#5850.00	60.7 PK	68.2	-7.5	1.51 H	206	56.0	4.7
5	11420.00	57.6 PK	74.0	-16.4	2.11 H	199	48.8	8.8
6	11420.00	45.7 AV	54.0	-8.3	2.11 H	199	36.9	8.8
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	#5470.00	58.9 PK	68.2	-9.3	3.22 V	124	55.7	3.2
2	*5710.00	109.2 PK			3.22 V	124	66.8	42.4
3	*5710.00	96.6 AV			3.22 V	124	54.2	42.4
4	#5850.00	60.0 PK	68.2	-8.2	3.22 V	124	55.3	4.7
5	11420.00	57.5 PK	74.0	-16.5	1.86 V	120	48.7	8.8
6	11420.00	45.4 AV	54.0	-8.6	1.86 V	120	36.6	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	#5623.20	58.8 PK	68.2	-9.4	1.09 H	189	54.9	3.9
2	*5755.00	110.2 PK			1.09 H	189	67.7	42.5
3	*5755.00	98.4 AV			1.09 H	189	55.9	42.5
4	#5938.40	59.3 PK	68.2	-8.9	1.09 H	189	54.5	4.8
5	11510.00	55.7 PK	74.0	-18.3	2.20 H	209	47.0	8.7
6	11510.00	44.6 AV	54.0	-9.4	2.20 H	209	35.9	8.7
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	#5643.20	59.7 PK	68.2	-8.5	2.99 V	148	55.6	4.1
2	*5755.00	106.8 PK			2.99 V	148	64.3	42.5
3	*5755.00	94.9 AV			2.99 V	148	52.4	42.5
4	#5952.80	60.5 PK	68.2	-7.7	2.99 V	148	55.7	4.8
5	11510.00	55.2 PK	74.0	-18.8	1.86 V	132	46.5	8.7
6	11510.00	44.1 AV	54.0	-9.9	1.86 V	132	35.4	8.7

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 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	#5647.60	53.4 PK	68.2	-14.8	1.13 H	193	50.6	2.8
2	*5795.00	110.9 PK			1.13 H	193	68.2	42.7
3	*5795.00	98.6 AV			1.13 H	193	55.9	42.7
4	#5925.20	54.5 PK	68.2	-13.7	1.13 H	193	51.1	3.4
5	11590.00	56.0 PK	74.0	-18.0	2.20 H	211	47.4	8.6
6	11590.00	44.9 AV	54.0	-9.1	2.20 H	211	36.3	8.6
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	#5646.00	52.8 PK	68.2	-15.4	2.90 V	150	50.0	2.8
2	*5795.00	107.0 PK			2.90 V	150	64.3	42.7
3	*5795.00	95.0 AV			2.90 V	150	52.3	42.7
4	#5926.00	53.5 PK	68.2	-14.7	2.90 V	150	50.1	3.4
5	11590.00	55.5 PK	74.0	-18.5	1.81 V	135	46.9	8.6
6	11590.00	44.4 AV	54.0	-9.6	1.81 V	133	35.8	8.6

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 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	60.8 PK	74.0	-13.2	1.27 H	256	58.0	2.8
2	5150.00	48.7 AV	54.0	-5.3	1.27 H	256	45.9	2.8
3	*5210.00	107.3 PK			1.27 H	256	66.3	41.0
4	*5210.00	94.6 AV			1.27 H	256	53.6	41.0
5	5350.00	57.5 PK	74.0	-16.5	1.27 H	256	54.6	2.9
6	5350.00	45.2 AV	54.0	-8.8	1.27 H	256	42.3	2.9
7	#10420.00	54.8 PK	68.2	-13.4	1.94 H	218	46.7	8.1
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	5150.00	58.6 PK	74.0	-15.4	3.26 V	165	55.8	2.8
2	5150.00	47.0 AV	54.0	-7.0	3.26 V	165	44.2	2.8
3	*5210.00	104.0 PK			3.26 V	165	63.0	41.0
4	*5210.00	92.7 AV			3.26 V	165	51.7	41.0
5	5350.00	56.6 PK	74.0	-17.4	3.26 V	165	53.7	2.9
6	5350.00	45.1 AV	54.0	-8.9	3.26 V	165	42.2	2.9
7	#10420.00	54.3 PK	68.2	-13.9	1.77 V	150	46.2	8.1

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 (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	57.0 PK	74.0	-17.0	3.40 H	189	54.2	2.8
2	5150.00	44.8 AV	54.0	-9.2	3.40 H	189	42.0	2.8
3	*5290.00	107.3 PK			3.40 H	189	66.3	41.0
4	*5290.00	94.7 AV			3.40 H	189	53.7	41.0
5	5350.00	58.9 PK	74.0	-15.1	3.40 H	189	56.0	2.9
6	5350.00	48.8 AV	54.0	-5.2	3.40 H	189	45.9	2.9
7	#10580.00	55.0 PK	68.2	-13.2	2.17 H	215	46.9	8.1
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	5150.00	57.6 PK	74.0	-16.4	3.20 V	168	54.8	2.8
2	5150.00	45.0 AV	54.0	-9.0	3.20 V	168	42.2	2.8
3	*5290.00	105.5 PK			3.20 V	168	64.5	41.0
4	*5290.00	93.5 AV			3.20 V	168	52.5	41.0
5	5350.00	60.4 PK	74.0	-13.6	3.20 V	168	57.5	2.9
6	5350.00	48.2 AV	54.0	-5.8	3.20 V	168	45.3	2.9
7	#10580.00	54.8 PK	68.2	-13.4	2.00 V	197	46.7	8.1

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 (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	5460.00	58.1 PK	74.0	-15.9	1.18 H	208	54.9	3.2
2	5460.00	47.0 AV	54.0	-7.0	1.18 H	208	43.8	3.2
3	#5470.00	59.2 PK	68.2	-9.0	1.18 H	208	56.0	3.2
4	*5530.00	105.1 PK			1.18 H	208	63.4	41.7
5	*5530.00	94.8 AV			1.18 H	208	53.1	41.7
6	#5725.00	58.8 PK	68.2	-9.4	1.18 H	208	54.4	4.4
7	11060.00	55.9 PK	74.0	-18.1	2.09 H	199	47.7	8.2
8	11060.00	43.8 AV	54.0	-10.2	2.09 H	199	35.6	8.2
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	57.7 PK	74.0	-16.3	3.14 V	154	54.5	3.2
2	5460.00	46.7 AV	54.0	-7.3	3.14 V	154	43.5	3.2
3	#5470.00	59.8 PK	68.2	-8.4	3.14 V	154	56.6	3.2
4	*5530.00	105.5 PK			3.14 V	154	63.8	41.7
5	*5530.00	93.8 AV			3.14 V	154	52.1	41.7
6	#5725.00	58.3 PK	68.2	-9.9	3.14 V	154	53.9	4.4
7	11060.00	55.7 PK	74.0	-18.3	1.82 V	127	47.5	8.2
8	11060.00	43.7 AV	54.0	-10.3	1.82 V	127	35.5	8.2

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 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	57.7 PK	74.0	-16.3	1.32 H	206	54.5	3.2
2	5460.00	45.3 AV	54.0	-8.7	1.32 H	206	42.1	3.2
3	#5470.00	58.3 PK	68.2	-9.9	1.32 H	206	55.1	3.2
4	*5610.00	108.2 PK			1.32 H	206	66.3	41.9
5	*5610.00	96.0 AV			1.32 H	206	54.1	41.9
6	#5725.00	59.2 PK	68.2	-9.0	1.32 H	206	54.8	4.4
7	11220.00	56.1 PK	74.0	-17.9	2.14 H	205	47.9	8.2
8	11220.00	44.1 AV	54.0	-9.9	2.14 H	205	35.9	8.2
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	56.9 PK	74.0	-17.1	3.15 V	154	53.7	3.2
2	5460.00	45.5 AV	54.0	-8.5	3.15 V	154	42.3	3.2
3	#5470.00	58.4 PK	68.2	-9.8	3.15 V	154	55.2	3.2
4	*5610.00	105.1 PK			3.15 V	154	63.2	41.9
5	*5610.00	93.9 AV			3.15 V	154	52.0	41.9
6	#5725.00	59.1 PK	68.2	-9.1	3.15 V	154	54.7	4.4
7	11220.00	55.8 PK	74.0	-18.2	1.88 V	130	47.6	8.2
8	11220.00	43.8 AV	54.0	-10.2	1.88 V	130	35.6	8.2

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	#5470.00	57.5 PK	68.2	-10.7	1.33 H	207	54.3	3.2
2	*5690.00	107.0 PK			1.33 H	207	64.7	42.3
3	*5690.00	95.2 AV			1.33 H	207	52.9	42.3
4	#5850.00	59.1 PK	68.2	-9.1	1.33 H	207	54.4	4.7
5	11380.00	56.4 PK	74.0	-17.6	2.12 H	210	47.6	8.8
6	11380.00	44.5 AV	54.0	-9.5	2.12 H	210	35.7	8.8
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	#5470.00	57.7 PK	68.2	-10.5	2.99 V	149	54.5	3.2
2	*5690.00	105.3 PK			2.99 V	149	63.0	42.3
3	*5690.00	93.0 AV			2.99 V	149	50.7	42.3
4	#5850.00	59.1 PK	68.2	-9.1	2.99 V	149	54.4	4.7
5	11380.00	56.1 PK	74.0	-17.9	1.85 V	125	47.3	8.8
6	11380.00	44.1 AV	54.0	-9.9	1.85 V	125	35.3	8.8

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 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	#5620.40	59.6 PK	68.2	-8.6	1.08 H	190	55.7	3.9
2	#5650.00	58.5 PK	68.2	-9.7	1.08 H	190	54.3	4.2
3	*5775.00	108.4 PK			1.08 H	190	65.8	42.6
4	*5775.00	95.6 AV			1.08 H	190	53.0	42.6
5	#5925.00	59.3 PK	68.2	-8.9	1.08 H	190	54.4	4.9
6	#5986.80	59.2 PK	68.2	-9.0	1.08 H	190	54.3	4.9
7	11550.00	55.5 PK	74.0	-18.5	2.17 H	209	46.8	8.7
8	11550.00	44.6 AV	54.0	-9.4	2.17 H	209	35.9	8.7
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	#5606.80	58.4 PK	68.2	-9.8	3.07 V	215	54.6	3.8
2	#5650.00	59.3 PK	68.2	-8.9	3.07 V	215	55.1	4.2
3	*5775.00	103.6 PK			3.07 V	215	61.0	42.6
4	*5775.00	91.7 AV			3.07 V	215	49.1	42.6
5	#5925.00	59.5 PK	68.2	-8.7	3.07 V	215	54.6	4.9
6	#5926.40	59.2 PK	68.2	-9.0	3.07 V	215	54.4	4.8
7	11550.00	55.3 PK	74.0	-18.7	1.90 V	129	46.6	8.7
8	11550.00	44.1 AV	54.0	-9.9	1.90 V	129	35.4	8.7

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 (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	5150.00	59.7 PK	74.0	-14.3	1.23 H	255	56.9	2.8
2	5150.00	47.3 AV	54.0	-6.7	1.23 H	255	44.5	2.8
3	*5250.00	104.6 PK			1.23 H	255	63.6	41.0
4	*5250.00	91.8 AV			1.23 H	255	50.8	41.0
5	5350.00	61.3 PK	74.0	-12.7	1.23 H	255	58.4	2.9
6	5350.00	48.5 AV	54.0	-5.5	1.23 H	255	45.6	2.9
7	#10500.00	55.1 PK	68.2	-13.1	1.97 H	224	46.9	8.2
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	5150.00	59.7 PK	74.0	-14.3	3.14 V	165	56.9	2.8
2	5150.00	46.3 AV	54.0	-7.7	3.14 V	165	43.5	2.8
3	*5250.00	102.9 PK			3.14 V	165	61.9	41.0
4	*5250.00	90.9 AV			3.14 V	165	49.9	41.0
5	5350.00	58.8 PK	74.0	-15.2	3.14 V	165	55.9	2.9
6	5350.00	48.4 AV	54.0	-5.6	3.14 V	165	45.5	2.9
7	#10500.00	54.7 PK	68.2	-13.5	1.71 V	145	46.5	8.2

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 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	5460.00	59.5 PK	74.0	-14.5	1.24 H	208	56.3	3.2
2	5460.00	49.0 AV	54.0	-5.0	1.24 H	208	45.8	3.2
3	#5470.00	61.6 PK	68.2	-6.6	1.24 H	208	58.4	3.2
4	*5570.00	104.5 PK			1.24 H	208	62.7	41.8
5	*5570.00	92.9 AV			1.24 H	208	51.1	41.8
6	#5725.00	63.1 PK	68.2	-5.1	1.24 H	208	58.7	4.4
7	11140.00	56.0 PK	74.0	-18.0	2.08 H	205	47.7	8.3
8	11140.00	44.1 AV	54.0	-9.9	2.08 H	205	35.8	8.3
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	60.0 PK	74.0	-14.0	2.76 V	150	56.8	3.2
2	5460.00	48.5 AV	54.0	-5.5	2.76 V	150	45.3	3.2
3	#5470.00	61.0 PK	68.2	-7.2	2.76 V	150	57.8	3.2
4	*5570.00	101.2 PK			2.76 V	150	59.4	41.8
5	*5570.00	90.7 AV			2.76 V	150	48.9	41.8
6	#5725.00	60.2 PK	68.2	-8.0	2.76 V	150	55.8	4.4
7	11140.00	55.7 PK	74.0	-18.3	1.94 V	122	47.4	8.3
8	11140.00	43.7 AV	54.0	-10.3	1.94 V	122	35.4	8.3

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.

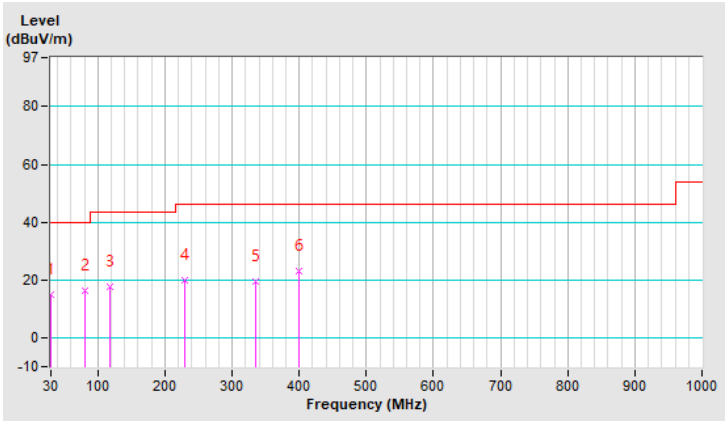
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.97	15.0 QP	40.0	-25.0	1.00 H	190	34.7	-19.7
2	81.41	16.1 QP	40.0	-23.9	1.99 H	215	39.6	-23.5
3	117.30	17.5 QP	43.5	-26.0	1.99 H	226	38.2	-20.7
4	228.85	19.8 QP	46.0	-26.2	1.49 H	269	40.8	-21.0
5	334.58	19.4 QP	46.0	-26.6	1.00 H	230	36.0	-16.6
6	399.57	23.1 QP	46.0	-22.9	1.00 H	134	38.4	-15.3

Remarks:

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

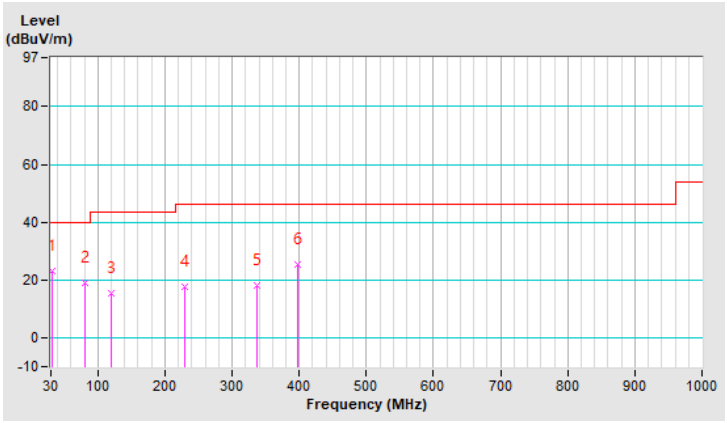


RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	32.91	23.0 QP	40.0	-17.0	1.51 V	218	42.5	-19.5
2	81.41	19.0 QP	40.0	-21.0	2.00 V	158	42.5	-23.5
3	120.21	15.3 QP	43.5	-28.2	1.01 V	178	35.7	-20.4
4	228.85	17.7 QP	46.0	-28.3	1.01 V	167	38.7	-21.0
5	337.49	18.1 QP	46.0	-27.9	1.51 V	2	34.7	-16.6
6	398.60	25.2 QP	46.0	-20.8	1.51 V	242	40.5	-15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

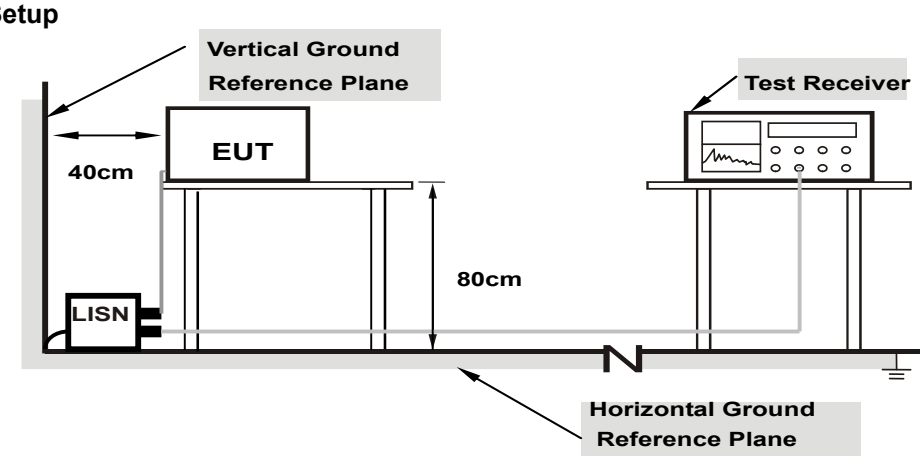
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

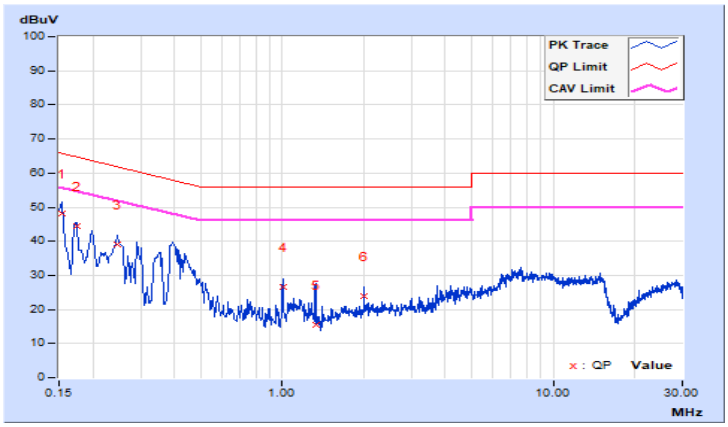
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.15400**	**9.71**	**38.39**	**23.29**	**48.10**	**33.00**	**65.78**	**55.78**	**-17.68**	**-22.78**
2	0.17384	9.71	34.83	18.27	44.54	27.98	64.77	54.77	-20.23	-26.79
3	0.24600	9.71	29.35	20.81	39.06	30.52	61.89	51.89	-22.83	-21.37
4	1.00600	9.76	16.93	16.69	26.69	26.45	56.00	46.00	-29.31	-19.55
5	1.32600	9.76	5.57	0.64	15.33	10.40	56.00	46.00	-40.67	-35.60
6	2.01000	9.77	14.11	12.06	23.88	21.83	56.00	46.00	-32.12	-24.17

REMARKS:

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

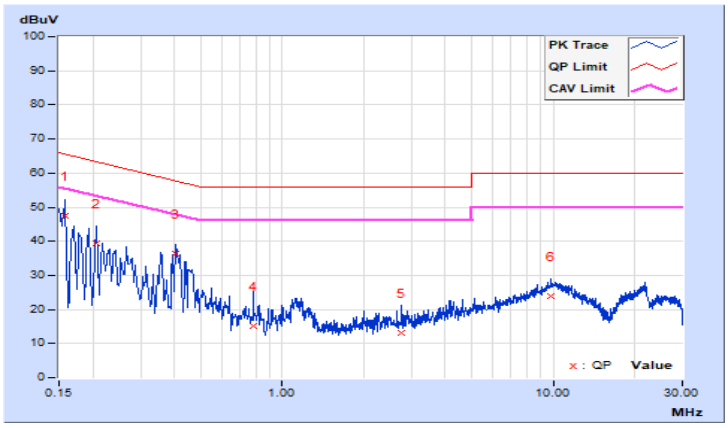


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.77	37.64	19.63	47.41	29.40	65.57	55.57	-18.16	-26.17
2	0.20600	9.77	29.64	14.33	39.41	24.10	63.37	53.37	-23.96	-29.27
3	0.40600	9.79	26.61	17.80	36.40	27.59	57.73	47.73	-21.33	-20.14
4	0.78200	9.81	5.29	0.74	15.10	10.55	56.00	46.00	-40.90	-35.45
5	2.74600	9.84	3.14	2.46	12.98	12.30	56.00	46.00	-43.02	-33.70
6	9.85800	9.93	13.89	8.95	23.82	18.88	60.00	50.00	-36.18	-31.12

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 ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

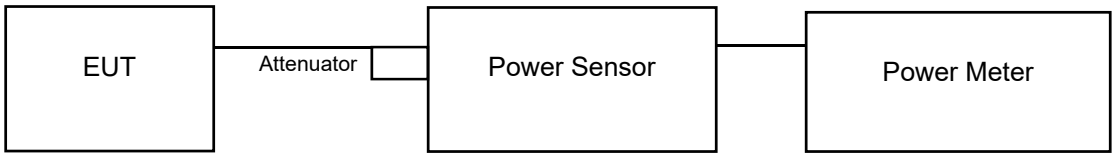
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

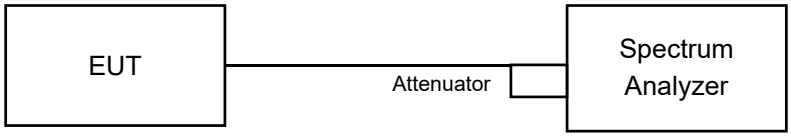
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

For Power Output
802.11a, 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40), 802.11ac (VHT80), 802.11ax (HE80), 802.11ac (VHT160), 802.11ax (HE160)



Straddle Channel (CH144, CH142, CH138, CH50)



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

For 802.11a, 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40), 802.11ac (VHT80), 802.11ax (HE80), 802.11ac (VHT160), 802.11ax (HE160):
Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

For Straddle Channel (CH144, CH142, CH138, CH50):
Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

(SISO)

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
36	5180	39.084	39.174	15.92	15.93	24	Pass
40	5200	39.264	**39.719**	15.94	15.99	24	Pass
48	5250	**39.719**	38.637	15.99	15.87	24	Pass
52	5250	39.264	38.994	15.94	15.91	24	Pass
60	5300	39.174	39.084	15.93	15.92	24	Pass
64	5320	39.628	38.371	15.98	15.84	24	Pass
100	5500	39.084	38.548	15.92	15.86	24	Pass
116	5580	39.174	38.994	15.93	15.91	24	Pass
140	5700	**49.659**	39.174	16.96	15.93	24	Pass
144	5720	39.174	39.084	15.93	15.92	24	Pass
149	5745	39.628	39.628	15.98	15.98	30	Pass
157	5785	39.355	39.628	15.95	15.98	30	Pass
165	5825	38.994	**39.719**	15.91	15.99	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
36	5180	38.994	38.994	15.91	15.91	24	Pass
40	5200	38.905	38.637	15.90	15.87	24	Pass
48	5250	38.815	38.815	15.89	15.89	24	Pass
52	5250	38.994	38.994	15.91	15.91	24	Pass
60	5300	38.726	38.459	15.88	15.85	24	Pass
64	5320	38.994	38.905	15.91	15.90	24	Pass
100	5500	38.107	38.194	15.81	15.82	24	Pass
116	5580	37.844	37.757	15.78	15.77	24	Pass
140	5700	38.637	38.282	15.87	15.83	24	Pass
144	5720	38.371	38.637	15.84	15.87	24	Pass
149	5745	38.994	38.637	15.91	15.87	30	Pass
157	5785	38.815	38.905	15.89	15.90	30	Pass
165	5825	38.107	38.905	15.81	15.90	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
38	5190	38.194	38.994	15.82	15.91	24	Pass
46	5230	38.282	38.107	15.83	15.81	24	Pass
54	5270	38.637	38.815	15.87	15.89	24	Pass
62	5310	38.107	**39.084**	15.81	15.92	24	Pass
102	5510	37.844	38.637	15.78	15.87	24	Pass
110	5550	38.815	38.107	15.89	15.81	24	Pass
134	5670	37.931	38.282	15.79	15.83	24	Pass
142	5710	38.107	37.844	15.81	15.78	24	Pass
151	5755	38.726	38.371	15.88	15.84	30	Pass
159	5795	38.815	38.726	15.89	15.88	30	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
42	5210	39.084	38.815	15.92	15.89	24	Pass
58	5290	38.815	38.994	15.89	15.91	24	Pass
106	5530	38.994	38.726	15.91	15.88	24	Pass
122	5610	38.194	37.411	15.82	15.73	24	Pass
138	5690	38.815	37.757	15.89	15.77	24	Pass
155	5775	38.726	38.994	15.88	15.91	30	Pass

802.11ac (VHT160)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
50	5250	38.459	28.973	15.85	14.62	24	Pass
114	5570	38.548	34.754	15.86	15.41	24	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
36	5180	39.537	39.537	15.97	15.97	24	Pass
40	5200	39.628	38.994	15.98	15.91	24	Pass
48	5250	39.537	39.628	15.97	15.98	24	Pass
52	5250	**39.719**	**39.719**	15.99	15.99	24	Pass
60	5300	39.628	39.628	15.98	15.98	24	Pass
64	5320	39.446	39.537	15.96	15.97	24	Pass
100	5500	38.815	39.446	15.89	15.96	24	Pass
116	5580	38.815	38.459	15.89	15.85	24	Pass
140	5700	39.537	39.174	15.97	15.93	24	Pass
144	5720	39.264	39.628	15.94	15.98	24	Pass
149	5745	39.537	**39.719**	15.97	15.99	30	Pass
157	5785	39.084	39.537	15.92	15.97	30	Pass
165	5825	38.815	39.628	15.89	15.98	30	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
38	5190	38.905	39.628	15.90	15.98	24	Pass
46	5230	39.084	38.459	15.92	15.85	24	Pass
54	5270	39.174	39.446	15.93	15.96	24	Pass
62	5310	38.726	39.628	15.88	15.98	24	Pass
102	5510	38.459	39.264	15.85	15.94	24	Pass
110	5550	39.174	38.726	15.93	15.88	24	Pass
134	5670	38.548	38.994	15.86	15.91	24	Pass
142	5710	38.815	38.815	15.89	15.89	24	Pass
151	5755	39.174	39.174	15.93	15.93	30	Pass
159	5795	39.628	39.264	15.98	15.94	30	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
42	5210	39.628	39.628	15.98	15.98	24	Pass
58	5290	39.355	**39.719**	15.95	15.99	24	Pass
106	5530	39.719	39.537	15.99	15.97	24	Pass
122	5610	38.994	38.371	15.91	15.84	24	Pass
138	5690	39.628	38.548	15.98	15.86	24	Pass
155	5775	39.084	39.537	15.92	15.97	30	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
50	5250	29.174	30.269	14.65	14.81	24	Pass
114	5570	30.690	35.563	14.87	15.51	24	Pass

(MIMO)
802.11n (HT20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.75	12.97	38.637	15.87	24	Pass
40	5200	12.81	12.97	38.905	15.90	24	Pass
48	5250	12.83	12.89	38.637	15.87	24	Pass
52	5250	12.90	12.91	39.084	15.92	24	Pass
60	5300	12.91	12.98	39.446	15.96	24	Pass
64	5320	12.75	12.93	38.459	15.85	24	Pass
100	5500	12.76	12.95	38.637	15.87	24	Pass
116	5580	12.93	12.77	38.548	15.86	24	Pass
140	5700	12.98	12.93	39.537	15.97	24	Pass
144	5720	12.91	12.92	39.174	15.93	24	Pass
149	5745	12.88	12.92	38.994	15.91	30	Pass
157	5785	12.75	12.81	37.931	15.79	30	Pass
165	5825	12.67	12.90	38.019	15.80	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.88	12.97	39.264	15.94	24	Pass
46	5230	12.87	12.77	38.282	15.83	24	Pass
54	5270	12.93	12.86	38.994	15.91	24	Pass
62	5310	12.92	12.96	39.355	15.95	24	Pass
102	5510	12.87	12.75	38.194	15.82	24	Pass
110	5550	12.93	12.78	38.637	15.87	24	Pass
134	5670	12.94	12.80	38.726	15.88	24	Pass
142	5710	12.92	12.84	38.815	15.89	24	Pass
151	5755	12.92	12.81	38.726	15.88	30	Pass
159	5795	12.81	12.85	38.371	15.84	30	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.72	12.93	38.371	15.84	24	Pass
58	5290	12.72	12.96	38.459	15.85	24	Pass
106	5530	12.83	12.81	38.282	15.83	24	Pass
122	5610	12.93	12.72	38.371	15.84	24	Pass
138	5690	12.91	12.86	38.905	15.90	24	Pass
155	5775	12.77	12.88	38.371	15.84	30	Pass

802.11ac (VHT160)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	12.91	12.93	39.174	15.93	24	Pass
114	5570	12.92	12.81	38.726	15.88	24	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.78	12.98	38.815	15.89	24	Pass
40	5200	12.84	12.99	39.174	15.93	24	Pass
48	5250	12.86	12.93	38.994	15.91	24	Pass
52	5250	12.94	12.96	39.446	15.96	24	Pass
60	5300	12.95	12.99	39.628	15.98	24	Pass
64	5320	12.78	12.96	38.726	15.88	24	Pass
100	5500	12.78	12.98	38.815	15.89	24	Pass
116	5580	12.97	12.81	38.905	15.90	24	Pass
140	5700	12.99	12.90	39.446	15.96	24	Pass
144	5720	12.96	12.98	39.628	15.98	24	Pass
149	5745	12.90	12.98	39.355	15.95	30	Pass
157	5785	12.77	12.84	38.194	15.82	30	Pass
165	5825	12.72	12.94	38.371	15.84	30	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.91	12.99	39.446	15.96	24	Pass
46	5230	12.93	12.81	38.726	15.88	24	Pass
54	5270	12.98	12.93	39.537	15.97	24	Pass
62	5310	12.98	12.99	39.811	16.00	24	Pass
102	5510	12.93	12.83	38.815	15.89	24	Pass
110	5550	12.99	12.81	38.994	15.91	24	Pass
134	5670	12.99	12.85	39.174	15.93	24	Pass
142	5710	12.97	12.93	39.446	15.96	24	Pass
151	5755	12.97	12.87	39.174	15.93	30	Pass
159	5795	12.85	12.89	38.726	15.88	30	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.78	12.98	38.815	15.89	24	Pass
58	5290	12.77	12.98	38.815	15.89	24	Pass
106	5530	12.89	12.88	38.905	15.90	24	Pass
122	5610	12.99	12.78	38.905	15.90	24	Pass
138	5690	12.98	12.91	39.446	15.96	24	Pass
155	5775	12.81	12.92	38.726	15.88	30	Pass

802.11ax (HE160)

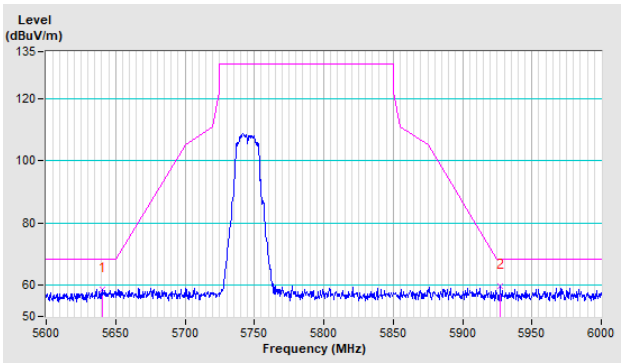
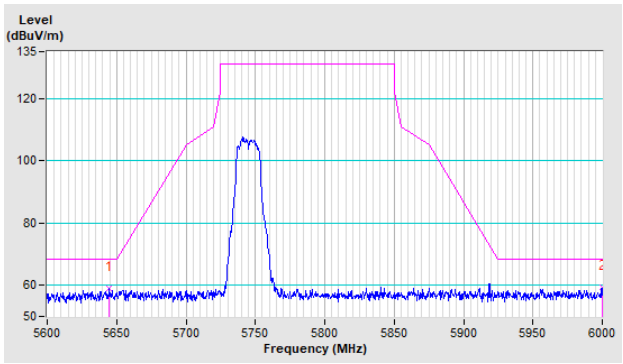
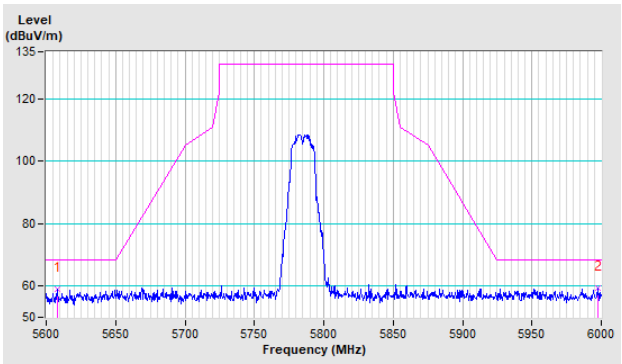
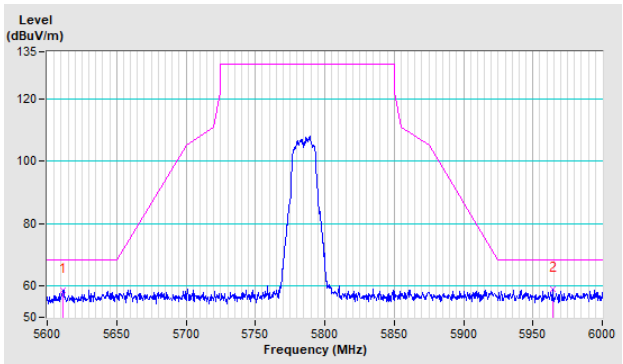
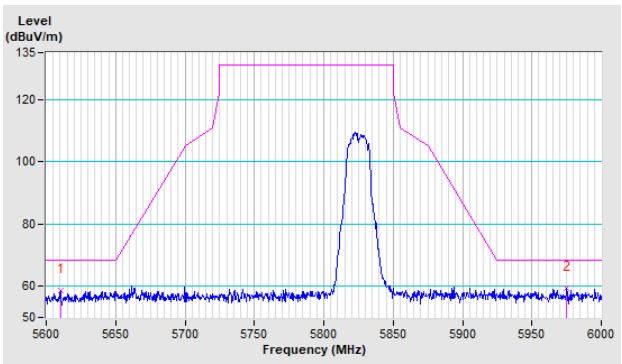
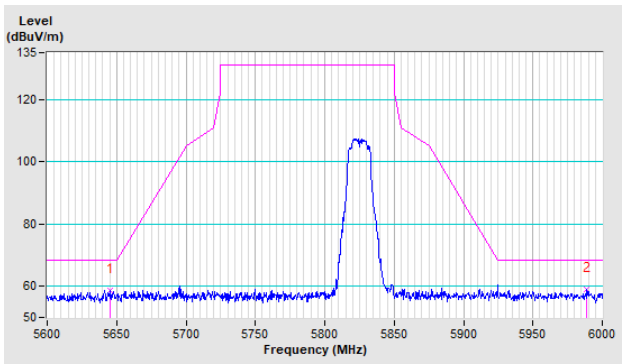
Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	12.98	12.99	39.811	16.00	24	Pass
114	5570	12.99	12.88	39.355	15.95	24	Pass

5 Pictures of Test Arrangements

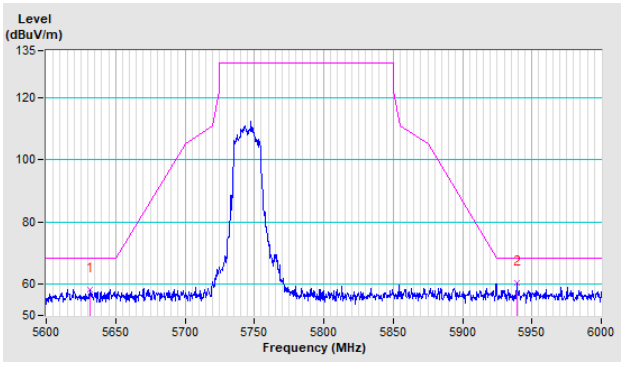
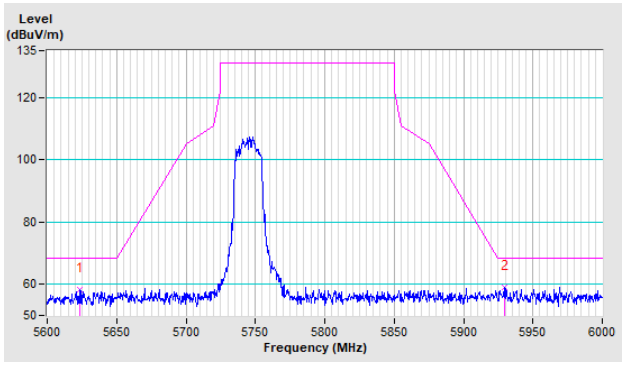
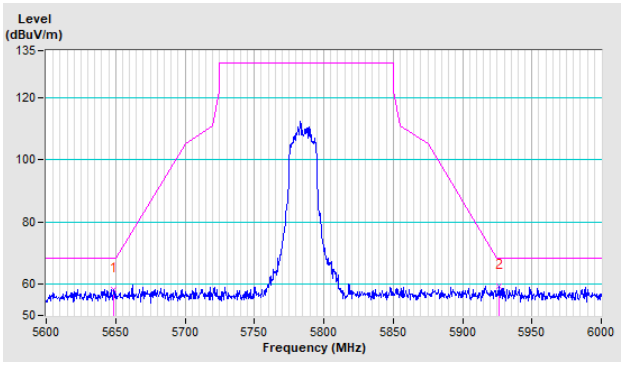
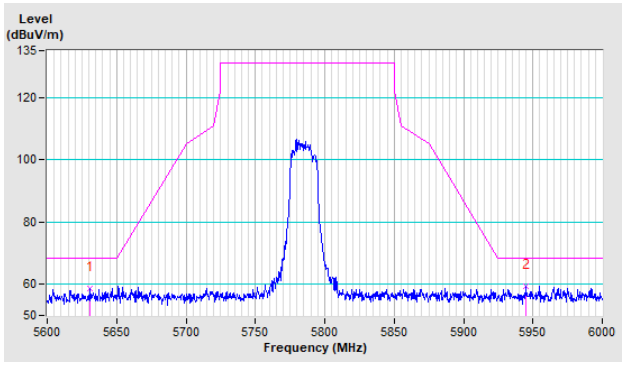
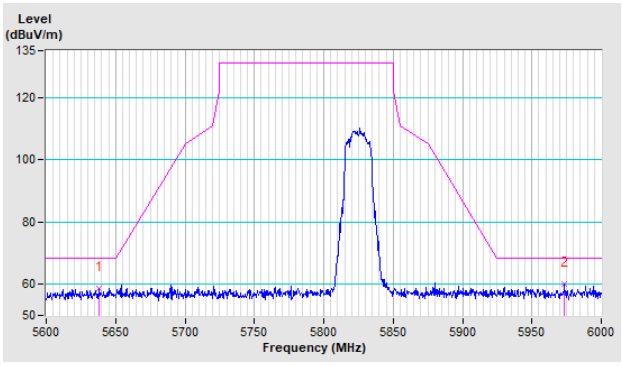
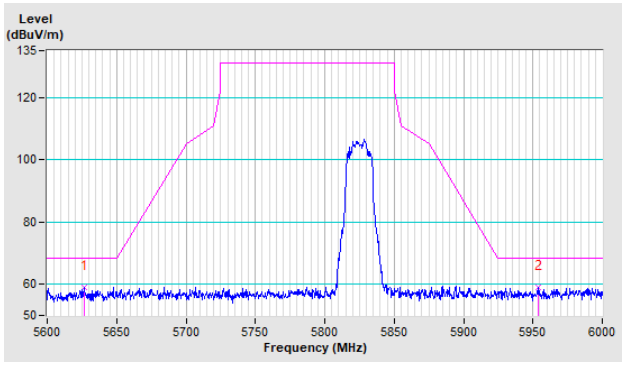
Please refer to the attached file (Test Setup Photo).

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

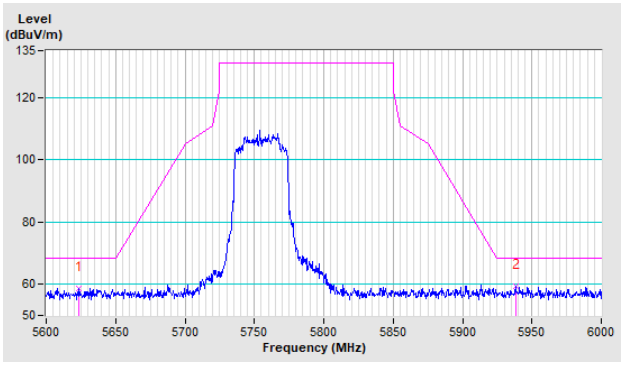
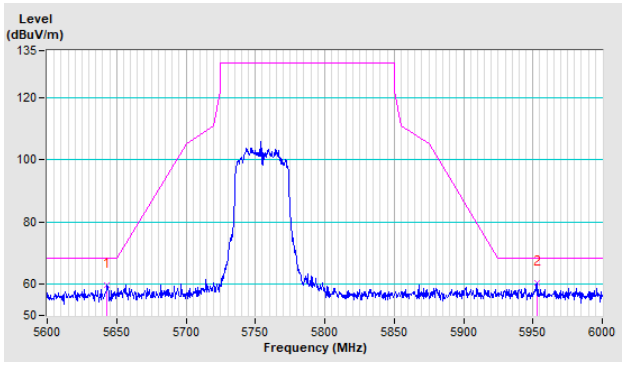
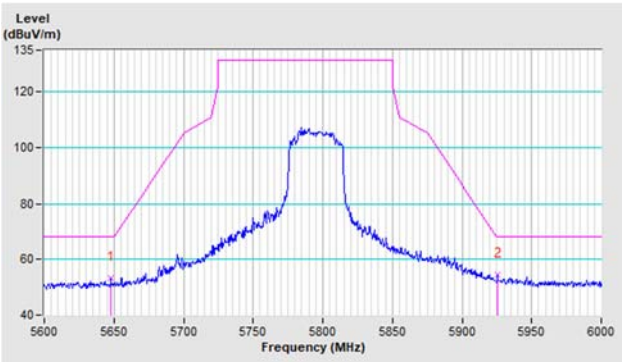
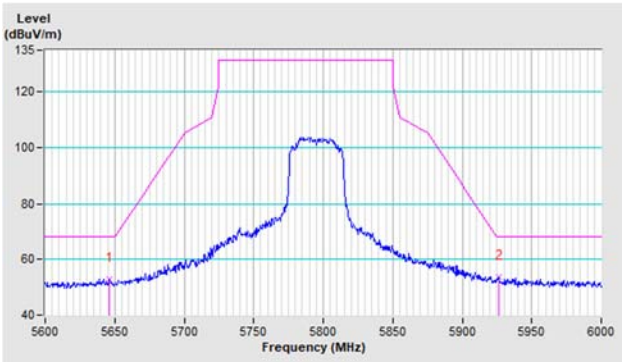
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

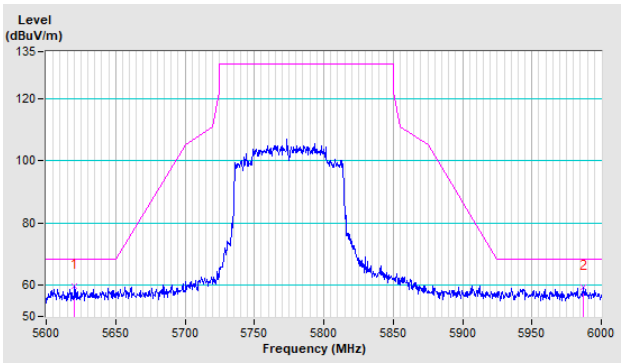
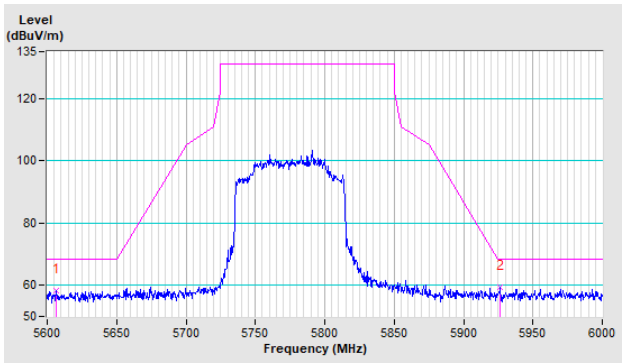
802.11ax (HE20)

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

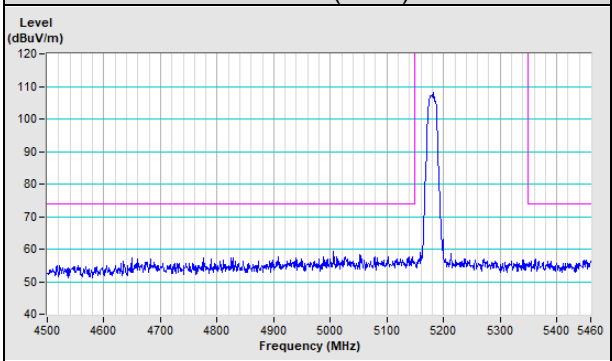
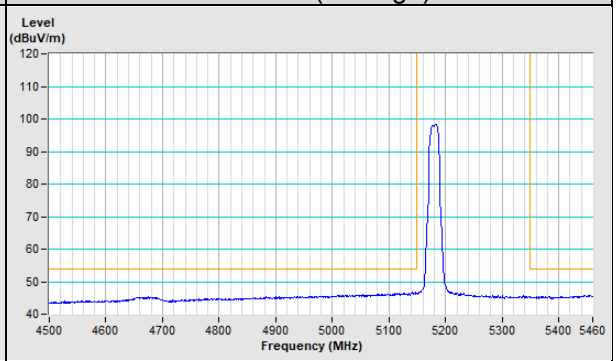
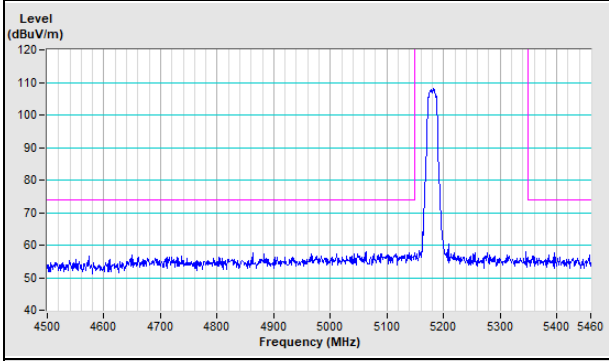
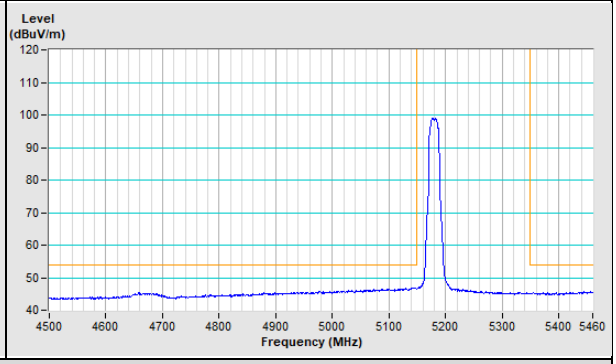
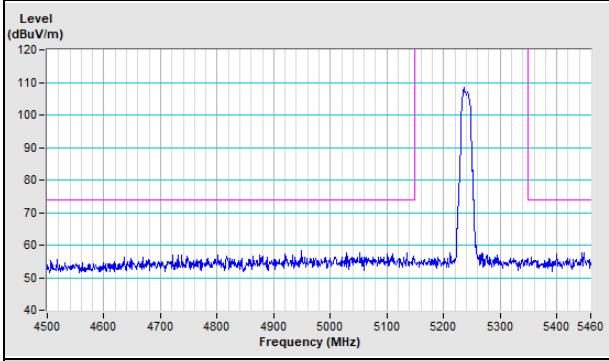
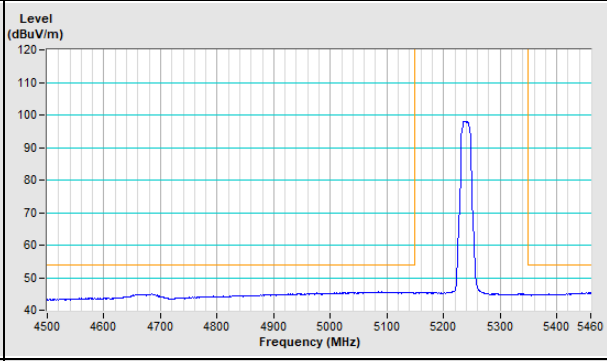
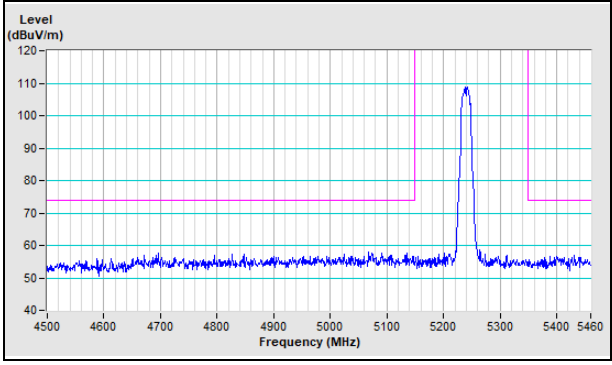
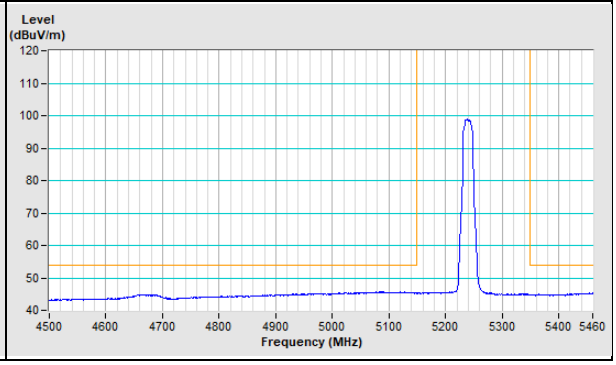
802.11ax (HE40)

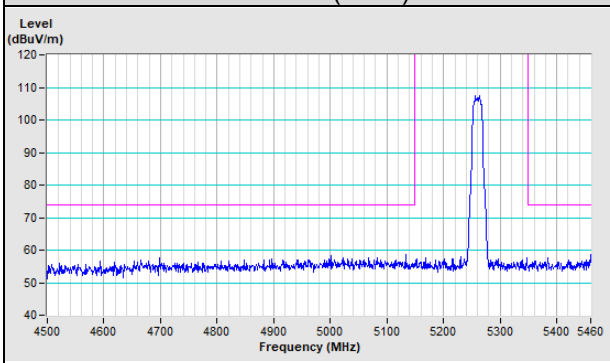
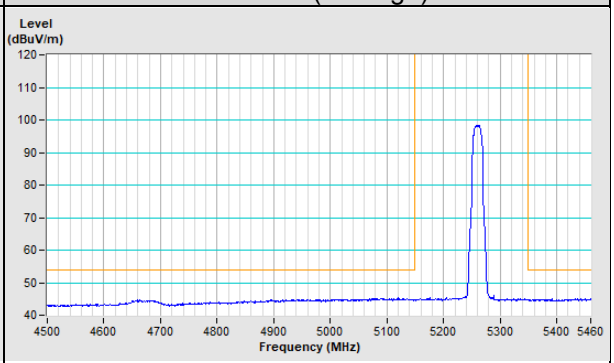
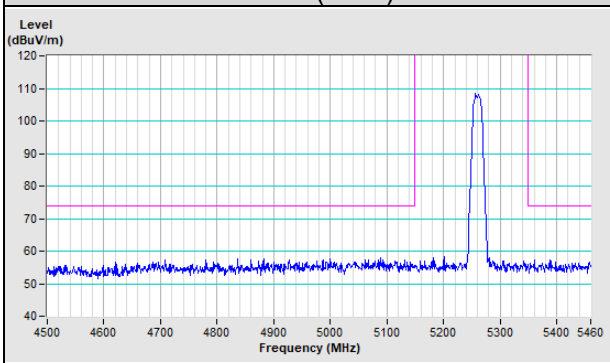
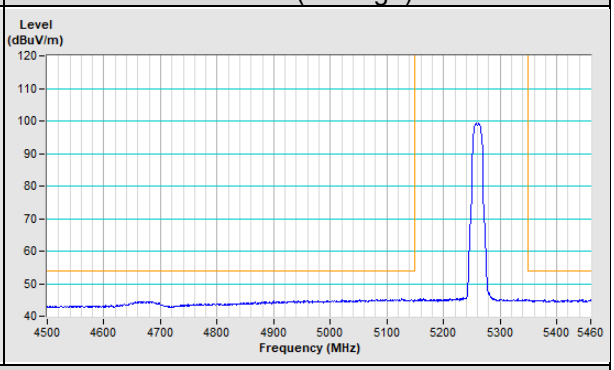
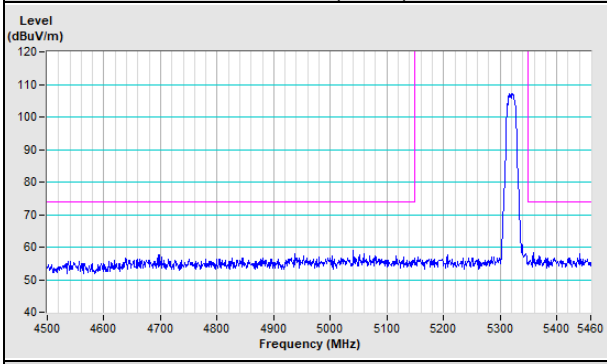
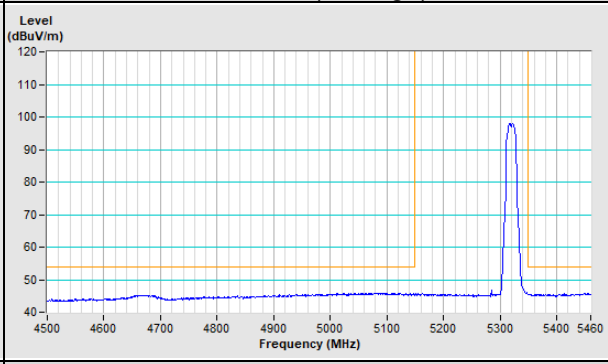
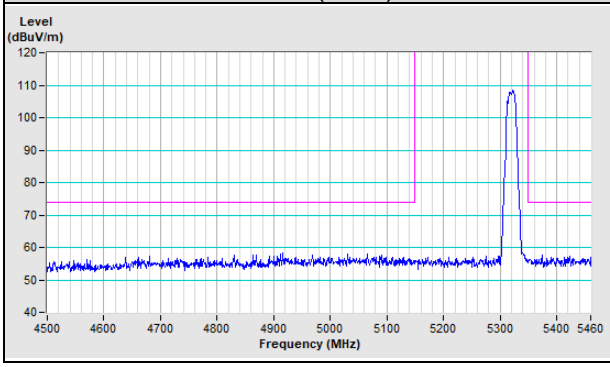
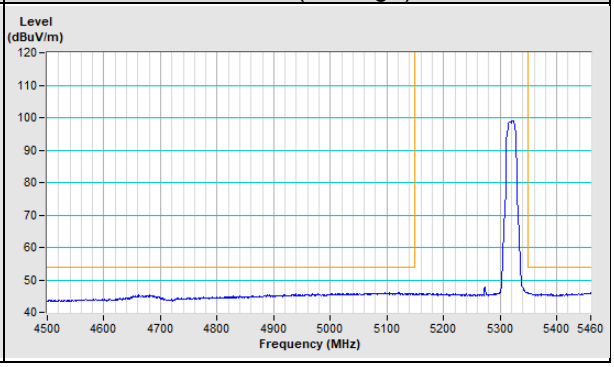
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

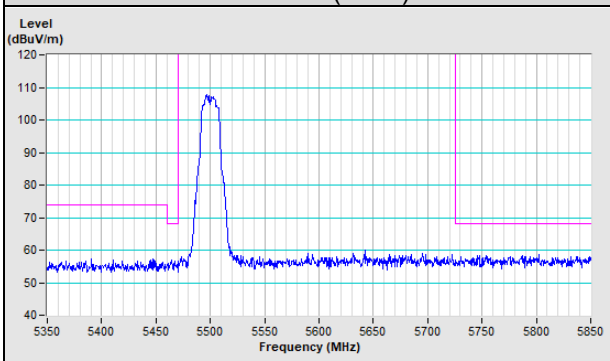
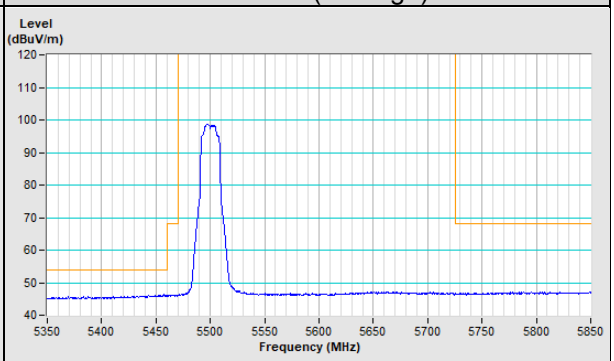
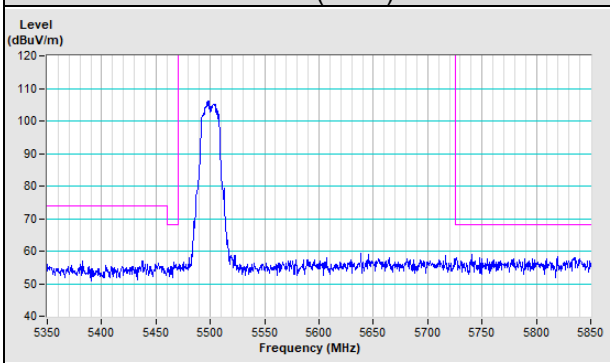
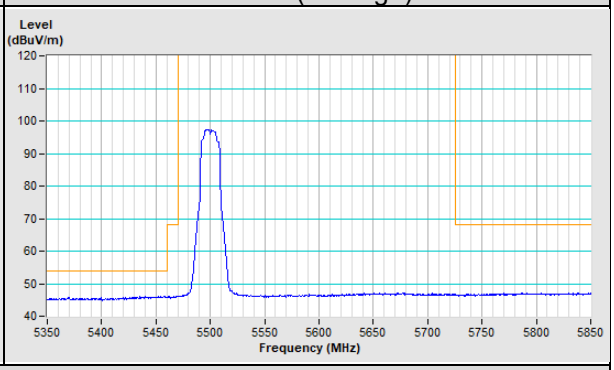
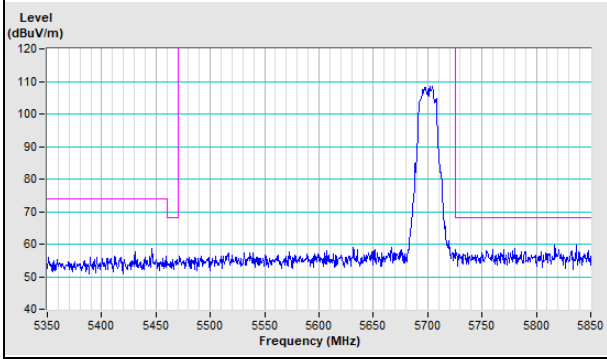
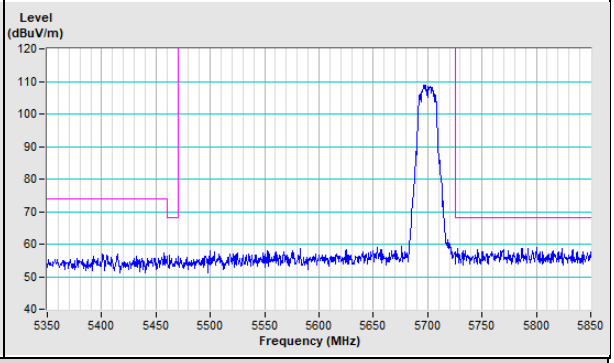
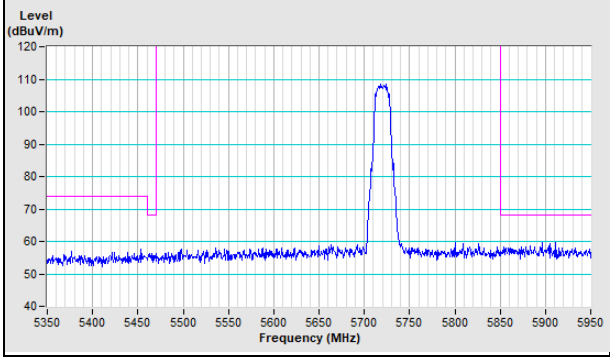
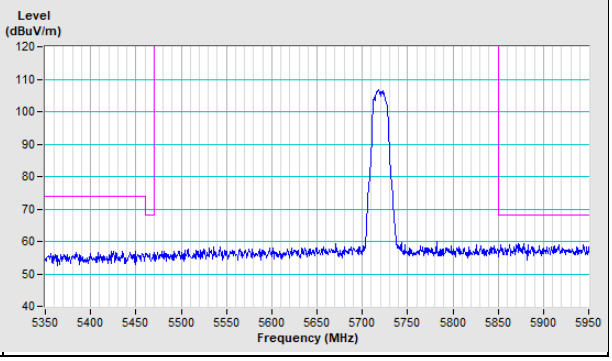
802.11ax (HE80)

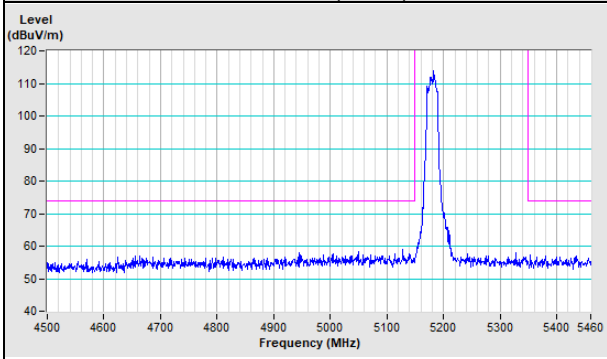
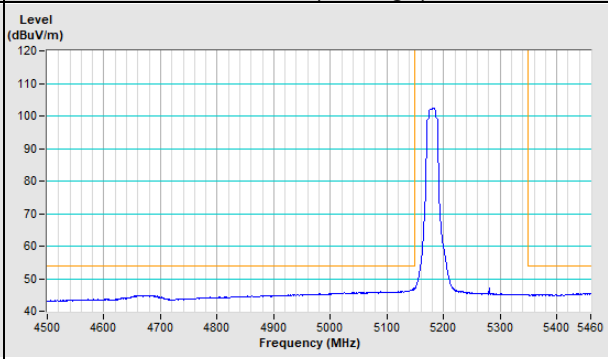
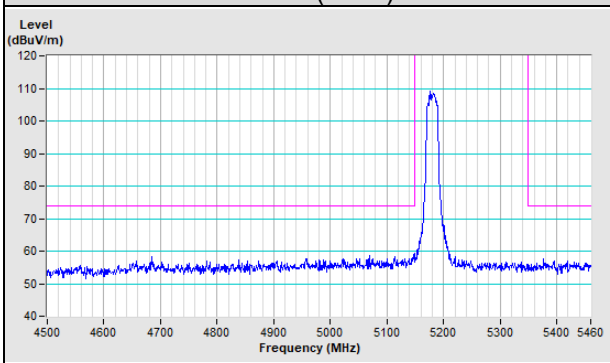
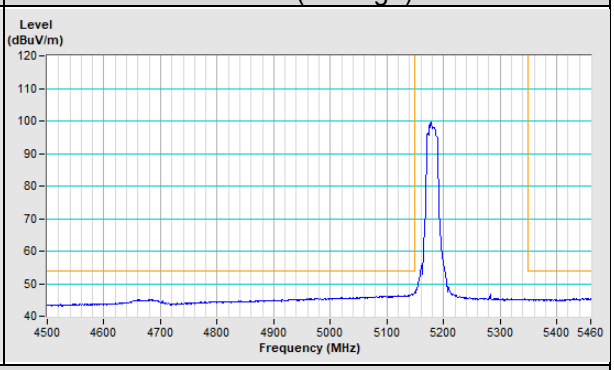
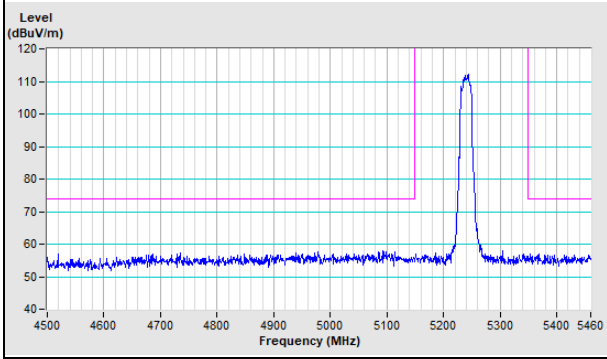
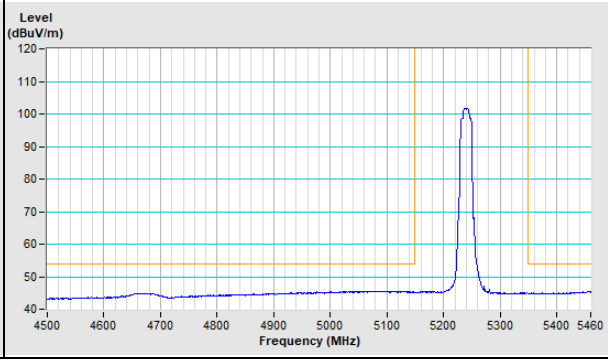
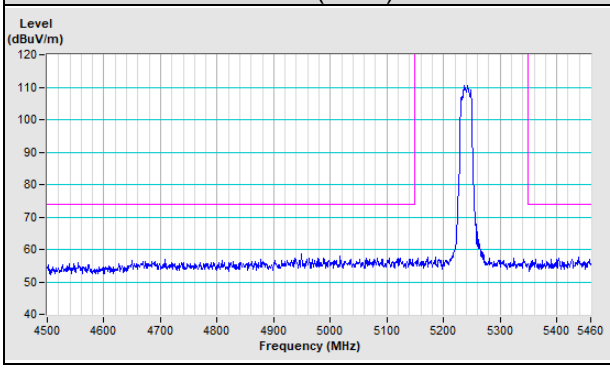
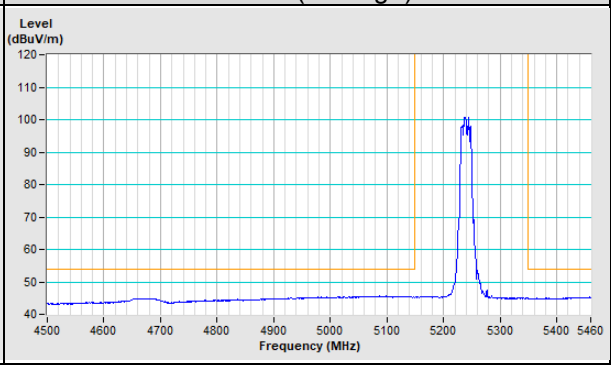
CH155	
Horizontal	Vertical
	

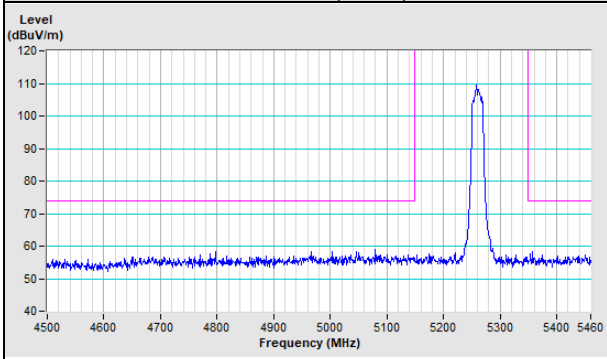
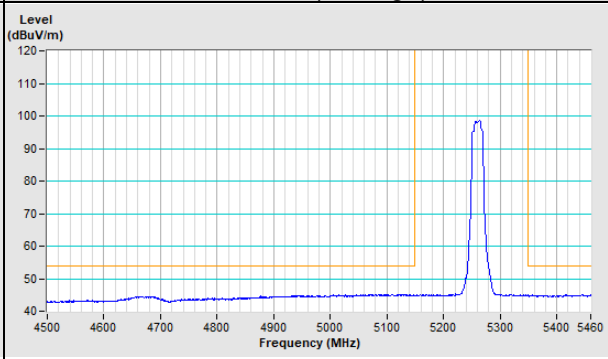
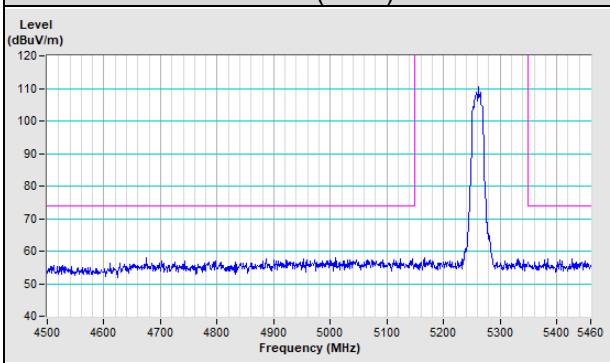
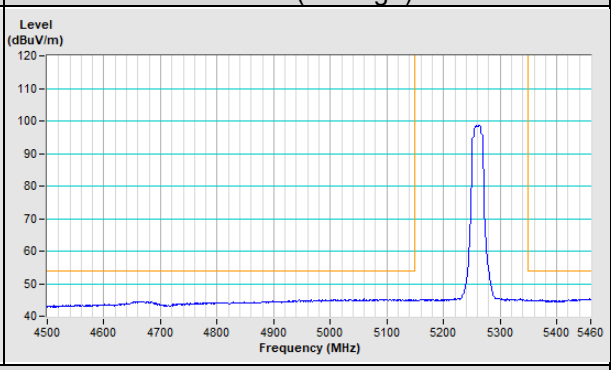
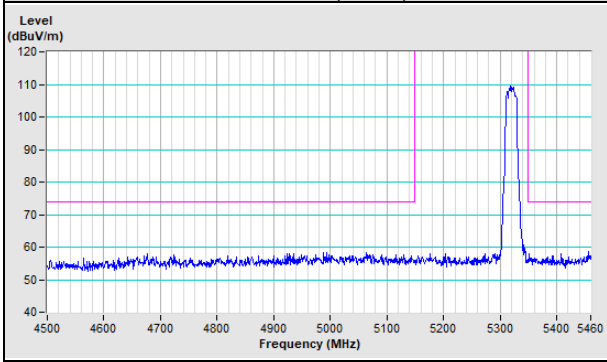
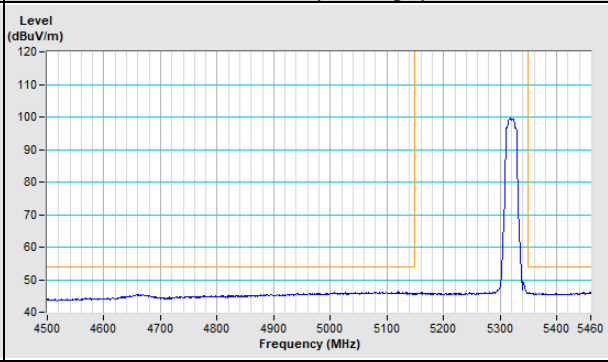
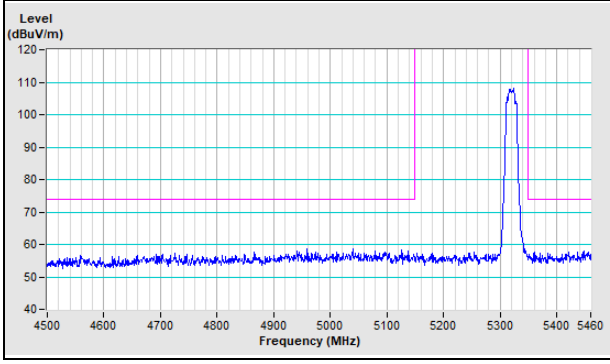
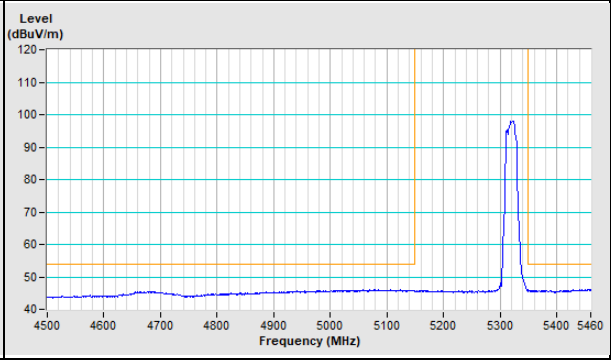
Annex B- Band-edge measurement

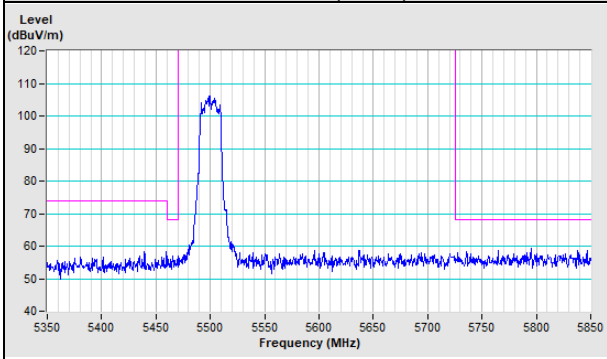
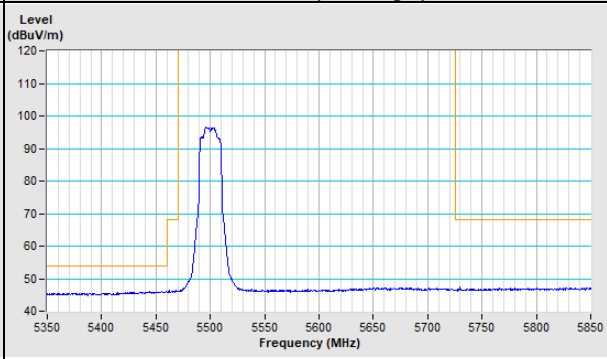
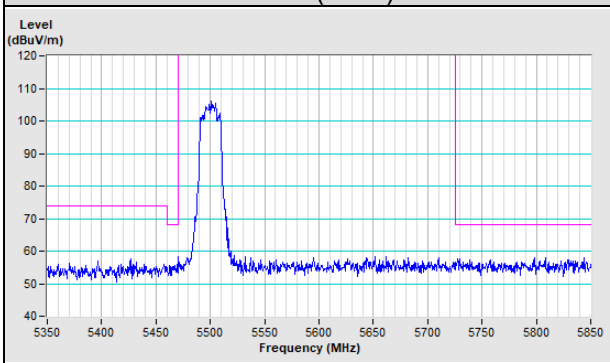
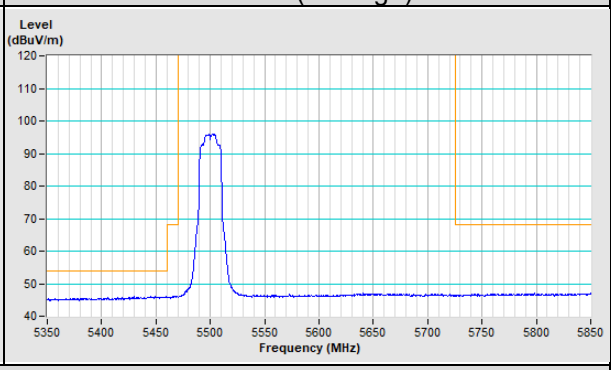
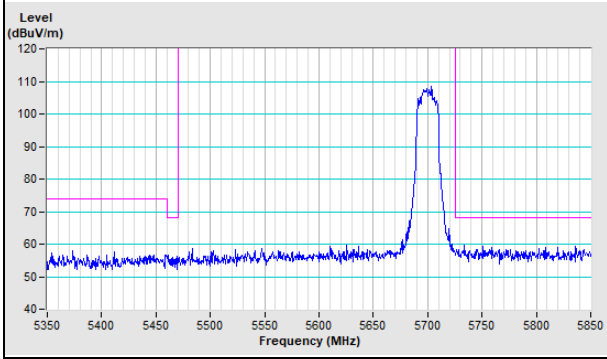
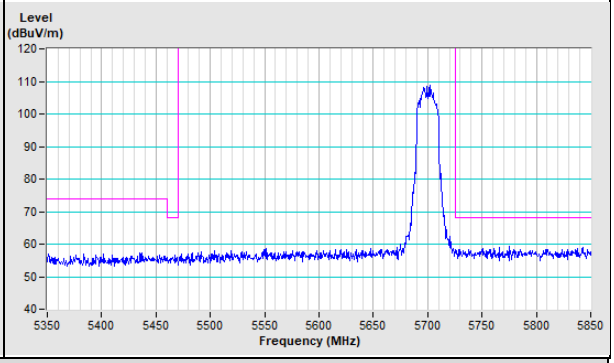
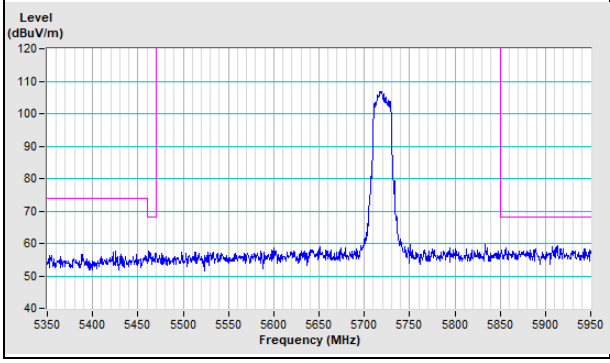
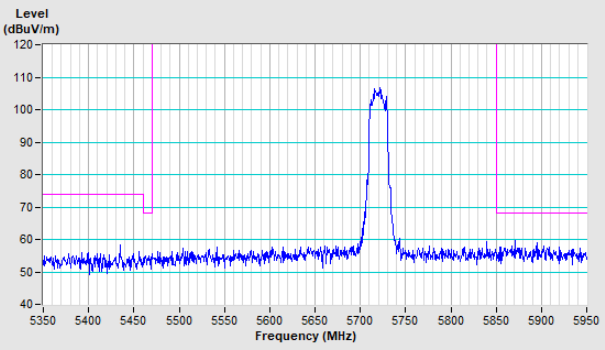
802.11a Channel 36	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11a Channel 48	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

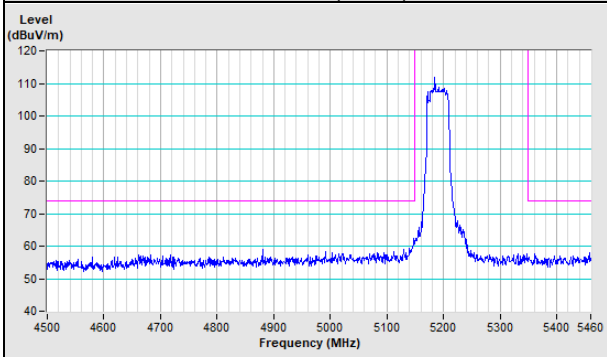
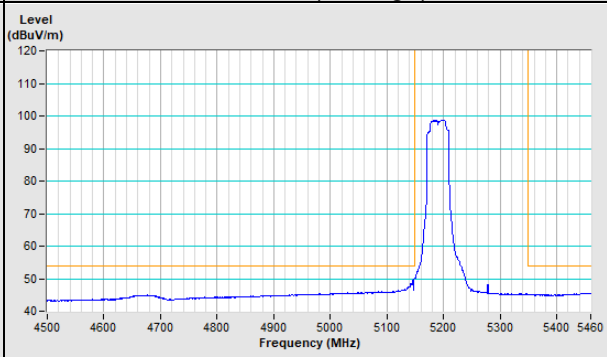
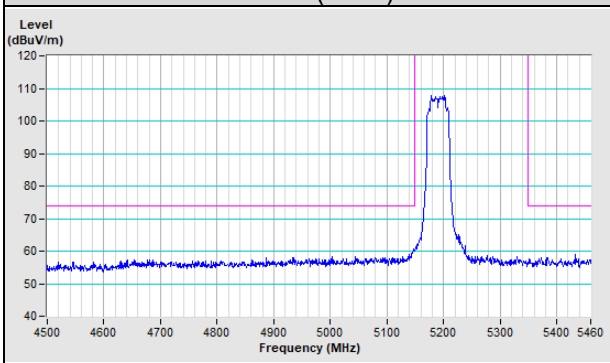
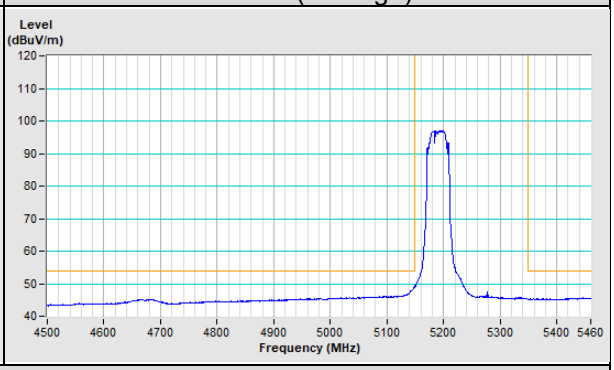
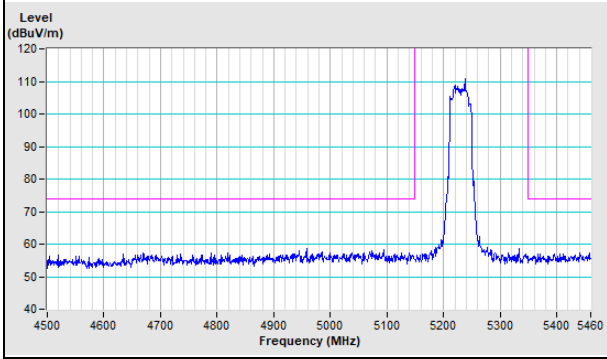
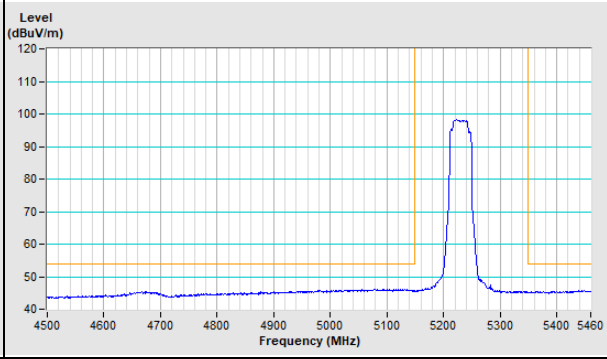
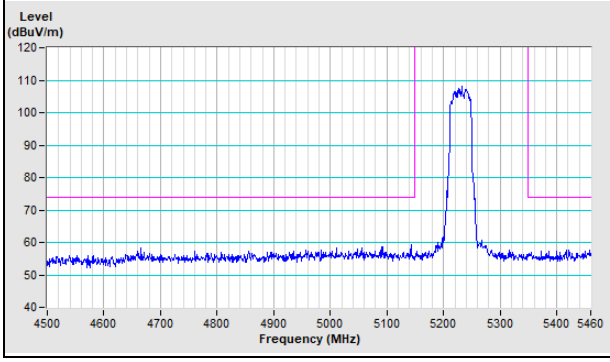
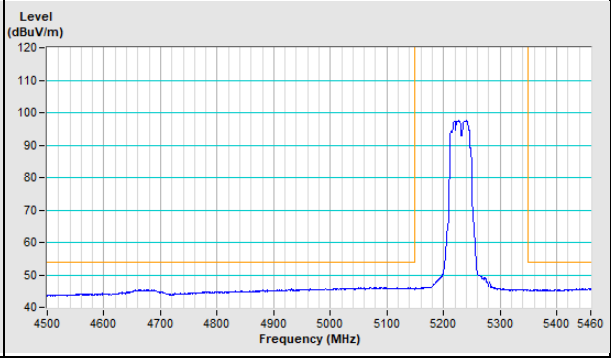
802.11a Channel 52	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11a Channel 64	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

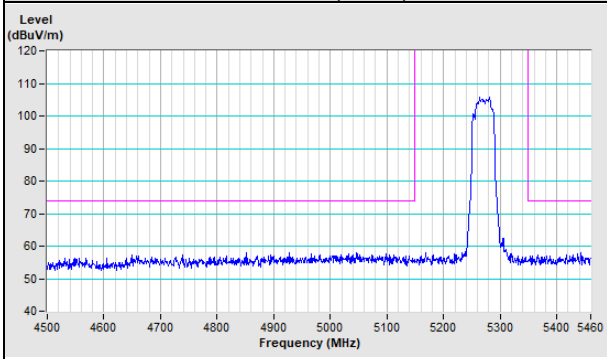
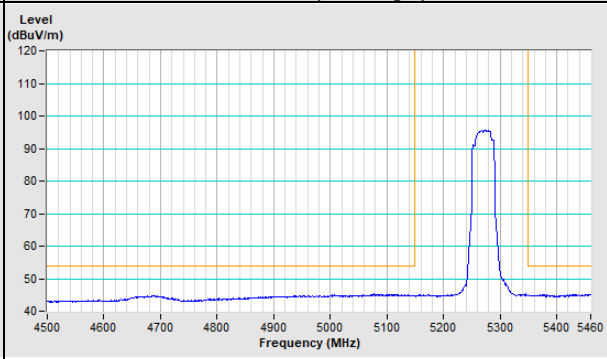
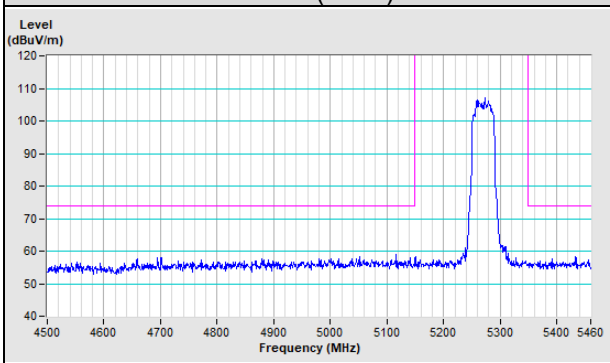
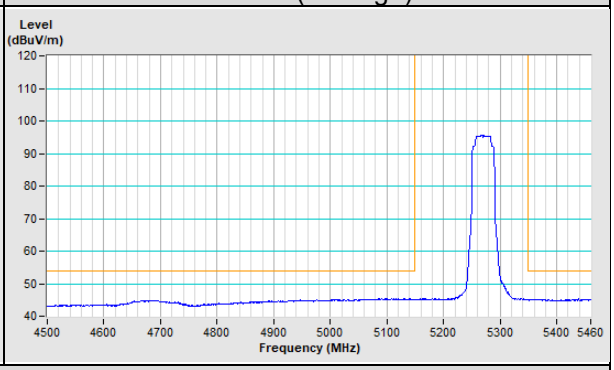
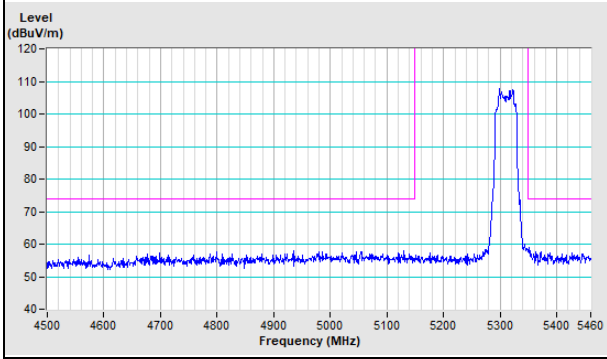
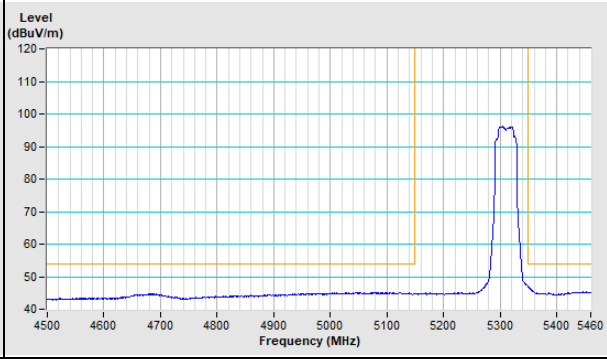
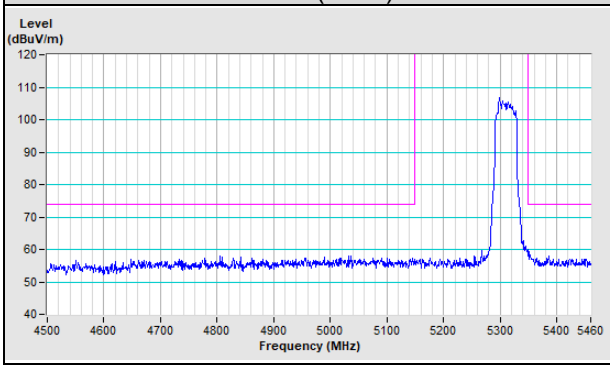
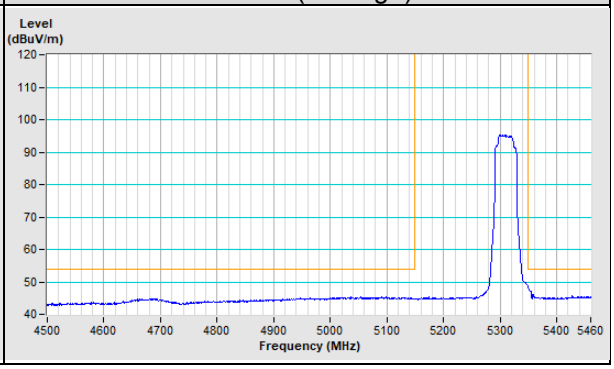
802.11a Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11a Channel 140	
Horizontal (Peak)	Vertical (Peak)
	
802.11a Channel 144	
Horizontal (Peak)	Vertical (Peak)
	

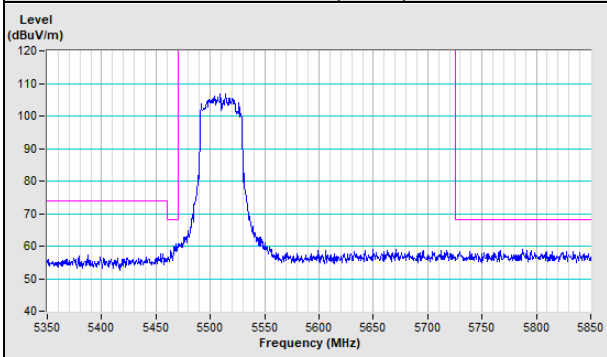
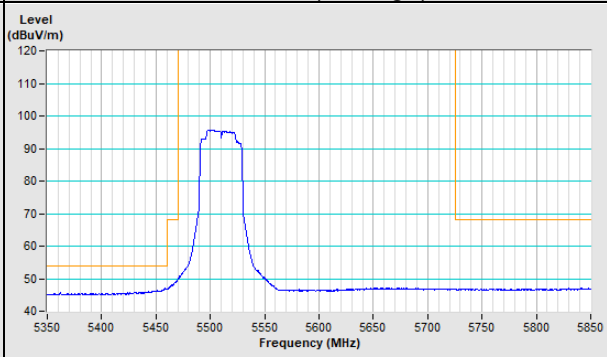
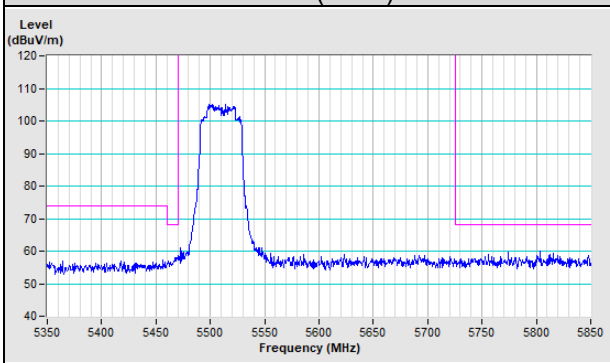
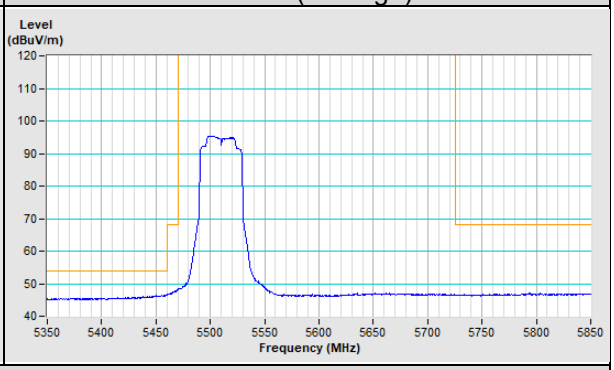
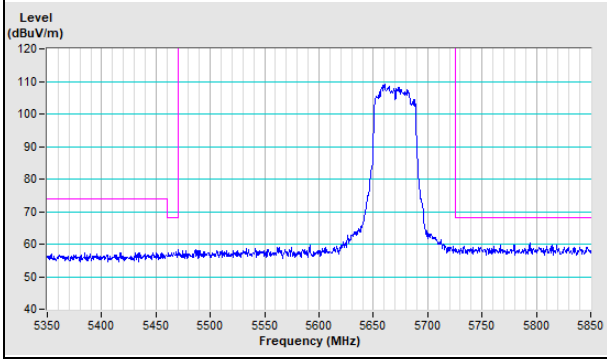
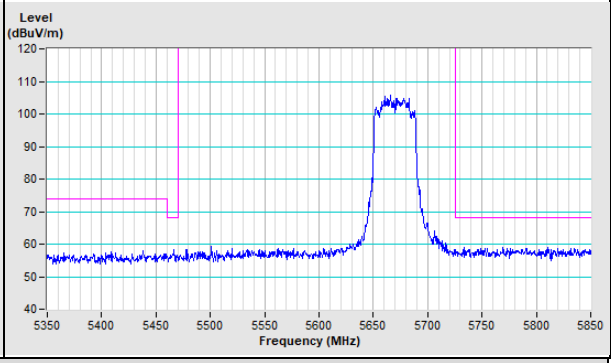
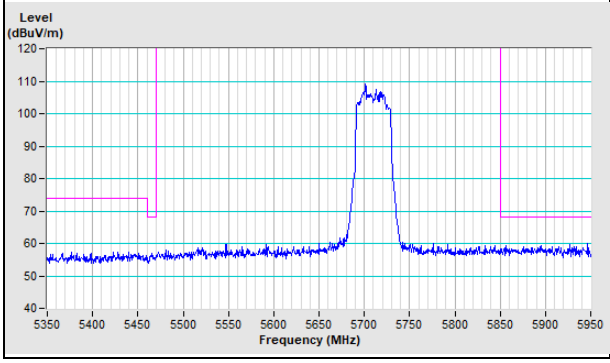
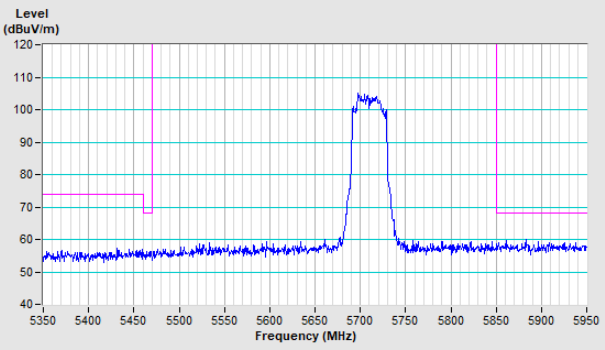
802.11ax (HE20) Channel 36	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 48	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

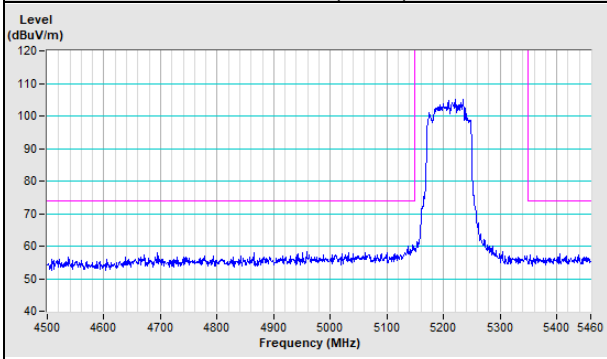
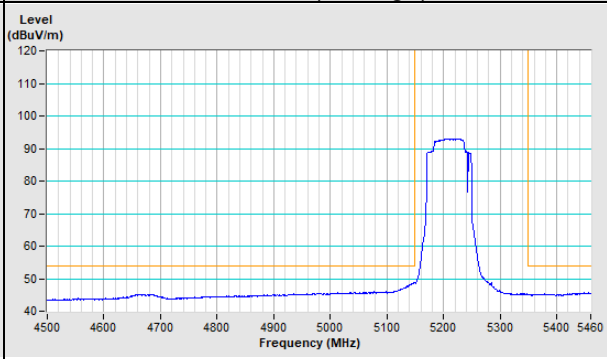
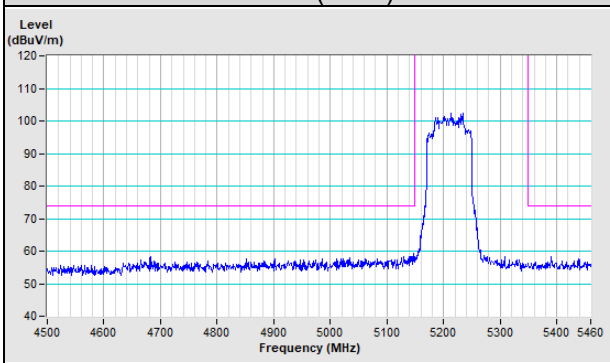
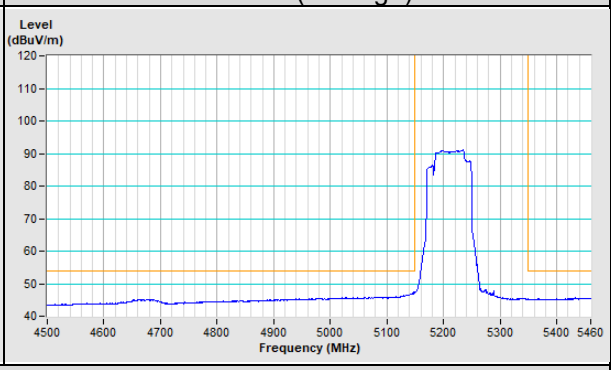
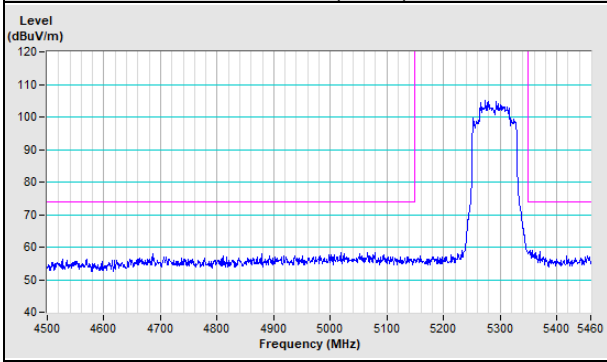
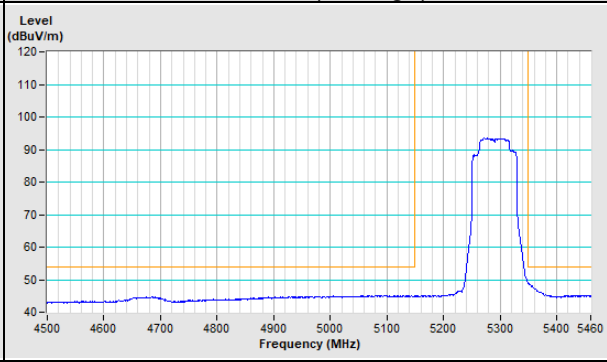
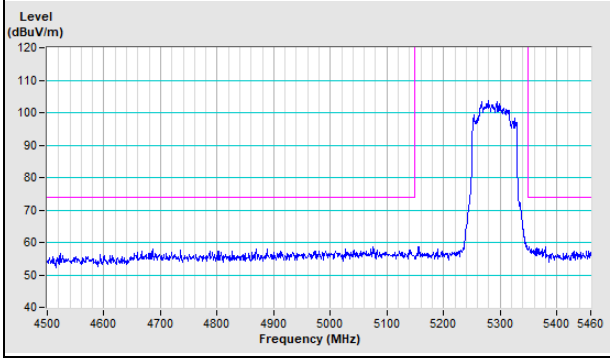
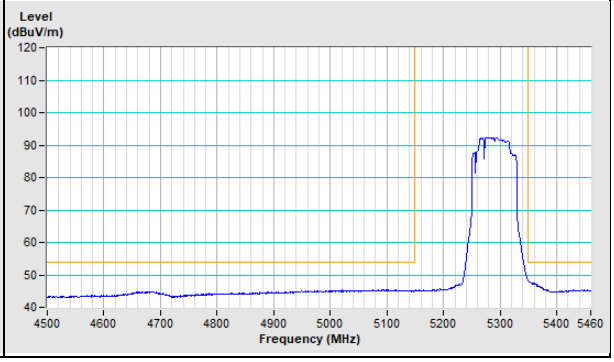
802.11ax (HE20) Channel 52	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 64	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

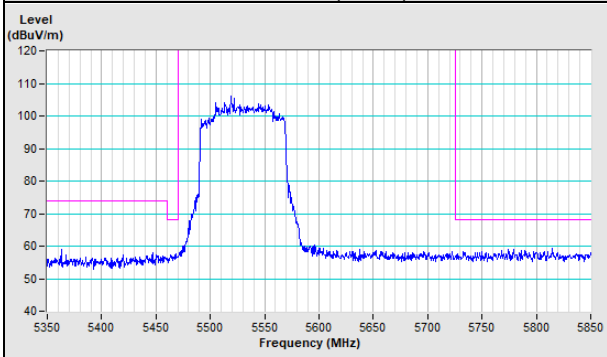
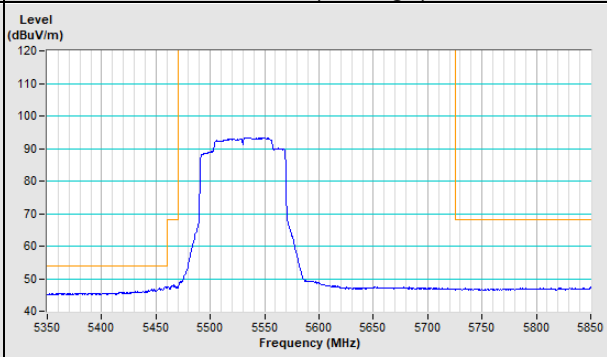
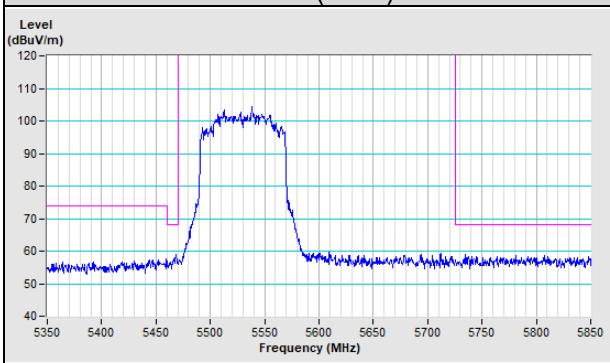
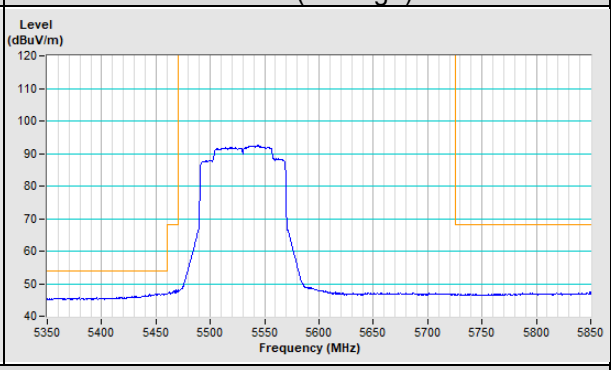
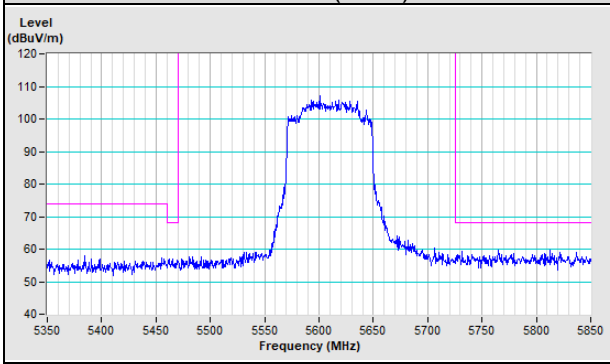
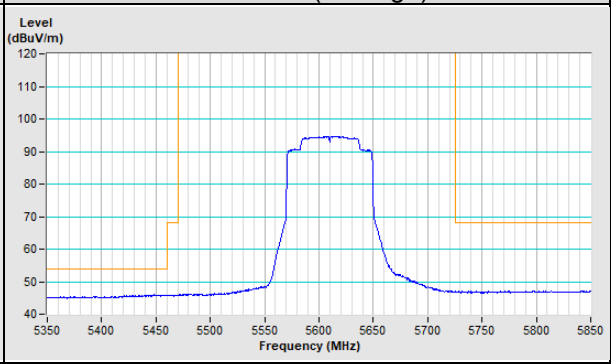
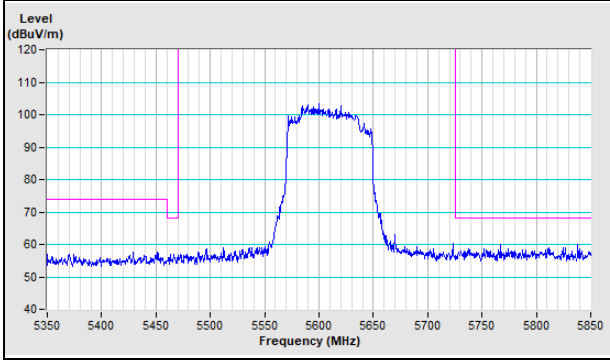
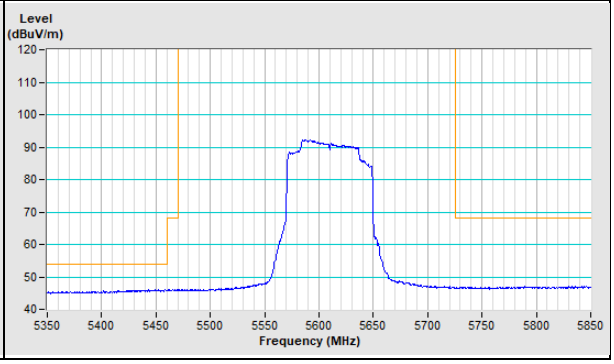
802.11ax (HE20) Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 140	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE20) Channel 144	
Horizontal (Peak)	Vertical (Peak)
	

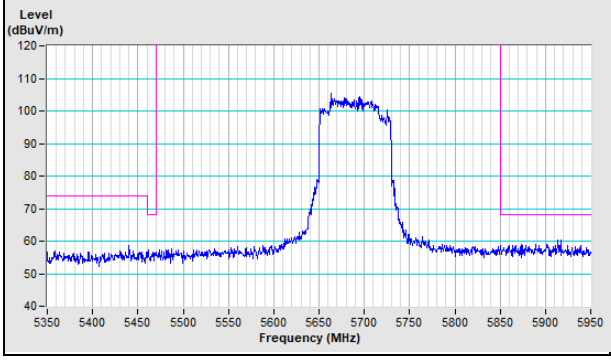
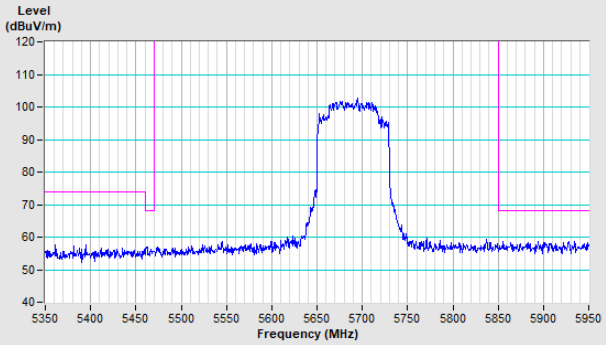
802.11ax (HE40) Channel 38	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE40) Channel 46	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

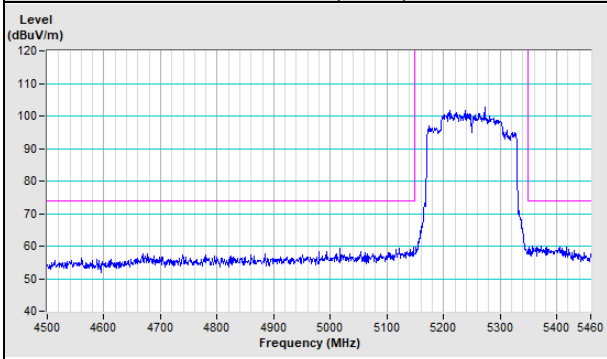
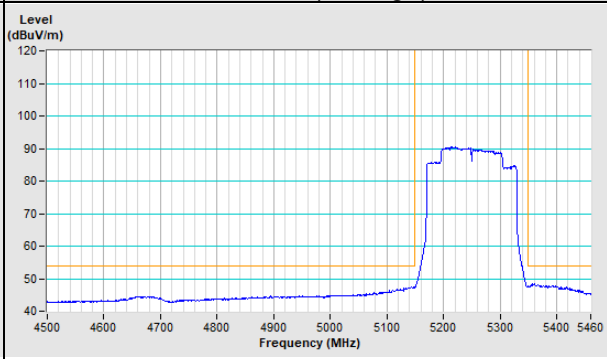
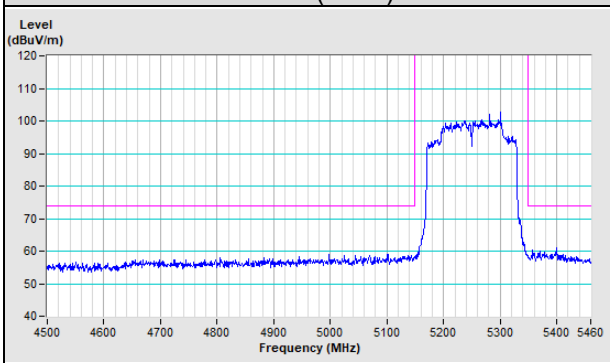
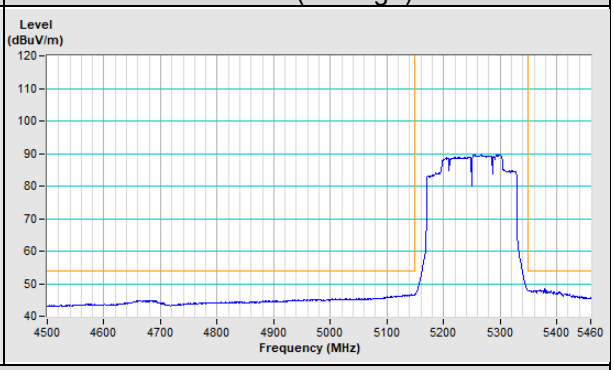
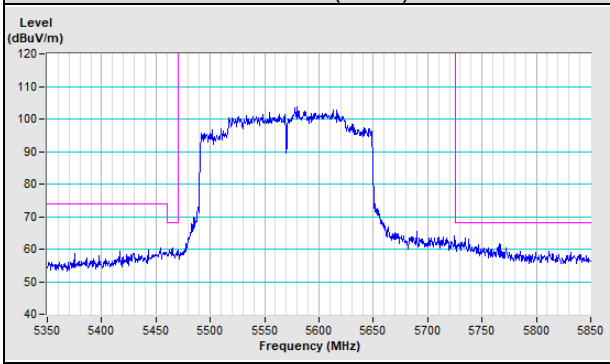
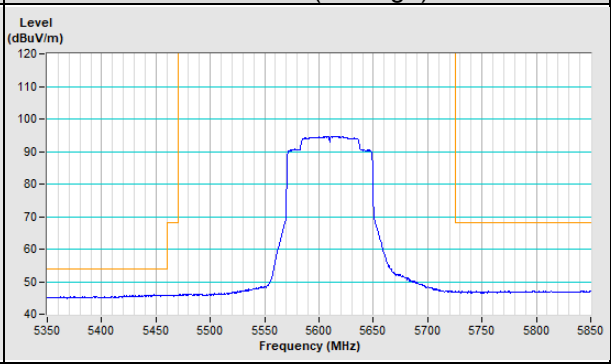
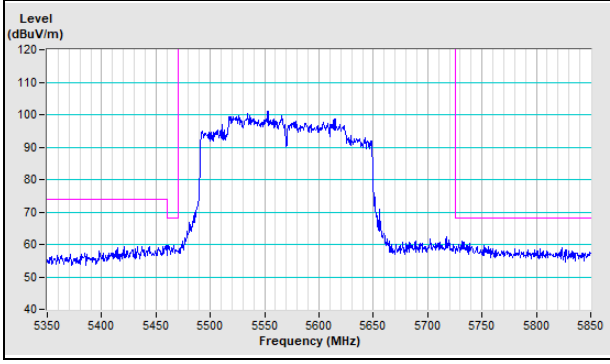
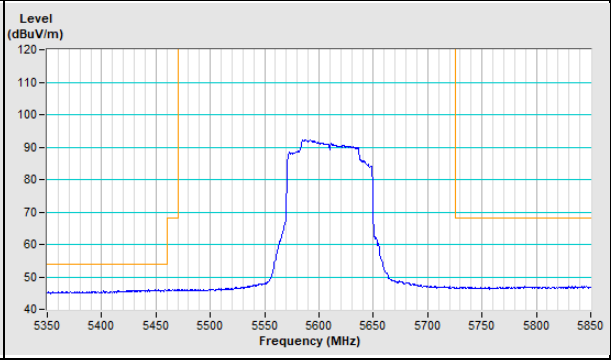
802.11ax (HE40) Channel 54	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE40) Channel 62	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE40) Channel 102	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE40) Channel 134	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE40) Channel 142	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE80) Channel 42	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE80) Channel 58	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE80) Channel 106	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE80) Channel 122	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE80) Channel 138	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE160) Channel 50	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE160) Channel 114	
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 accredited and approved according to ISO/IEC 17025.

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

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