

FCC Test Report

Report No.: RFBCWK-WTW-P22030669-1

FCC ID: MSQ-RTAX5Y00

Test Model: RT-AX57

Series Model: RT-AX55 V2/RT-AX3000P

Received Date: Mar. 21, 2022

Test Date: Jul. 15, 2022 ~ Aug.12, 2022

Issued Date: Sep. 21, 2022

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FCC Registration / 788550 / TW0003

Designation Number: 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBCWK-WTW-P22030669-1	Original Release	Sep. 21, 2022

1 Certificate of Conformity

Product: Wireless AX3000 Dual Band WiFi 6 Router

Brand: ASUS

Test Model: RT-AX57

Series Model: RT-AX55 V2/RT-AX3000P

Sample Status: Engineering Sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: Jul. 15, 2022 ~ Aug.12, 2022

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 : Vera Huang , **Date:** Sep. 21, 2022
Vera Huang / Specialist

Approved by : Jeremy Lin , **Date:** Sep. 21, 2022
Jeremy Lin / 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)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -7.92 dB at 0.37400 MHz.
15.407(b) (1/2/3/4(i/ii)/ 9)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.1 dB at 5150.00 MHz and 5350.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless AX3000 Dual Band WiFi 6 Router
Brand	ASUS
Test Model	RT-AX57
Series Model	RT-AX55 V2/RT-AX3000P
Status of EUT	Engineering Sample
Power Supply Rating	12 Vdc (from adapter)
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 2166.6Mbps 802.11ax: up to 2402Mbps
Operating Frequency	5180 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5320 MHz: 8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 4 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 2 for 802.11ac (VHT80), 802.11ax (HE80) 1 for 802.11ac (VHT160), 802.11ax (HE160) 5500 ~ 5720 MHz: 12 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 6 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 3 for 802.11ac (VHT80), 802.11ax (HE80) 1 for 802.11ac (VHT160), 802.11ax (HE160) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 2 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 1 for 802.11ac (VHT80)
Output Power	CDD Mode: 953.289 mW for 5180 ~ 5250 MHz 248.621 mW for 5250 ~ 5320 MHz 246.07 mW for 5500 ~ 5720 MHz 984.082 mW for 5745 ~ 5825 MHz Beamforming Mode: 953.289 mW for 5180 ~ 5250 MHz 248.621 mW for 5250 ~ 5320 MHz 241.707 mW for 5500 ~ 5720 MHz 980.739 mW for 5745 ~ 5825 MHz

Antenna Type	Dipole antenna with 2 dBi gain (5180 ~ 5250 MHz) Dipole antenna with 2 dBi gain (5250 ~ 5320 MHz) Dipole antenna with 2 dBi gain (5500 ~ 5720 MHz) Dipole antenna with 2 dBi gain (5745 ~ 5825 MHz)
Antenna Connector	I-PEX
Accessory Device	Refer to Note as below
Data Cable Supplied	N/A

Note:

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

Modulation Mode	TX Function	Beamforming Mode
802.11a	2TX	Not Support
802.11n (HT20)	2TX (NSS 1 / NSS / 2)	Support
802.11n (HT40)	2TX (NSS 1 / NSS / 2)	Support
802.11ac (VHT20)	2TX (NSS 1 / NSS / 2)	Support
802.11ac (VHT40)	2TX (NSS 1 / NSS / 2)	Support
802.11ac (VHT80)	2TX (NSS 1 / NSS / 2)	Support
802.11ac (VHT160)	2TX (NSS 1 / NSS / 2)	Support
802.11ax (HE20)	2TX (NSS 1 / NSS / 2)	Support
802.11ax (HE40)	2TX (NSS 1 / NSS / 2)	Support
802.11ax (HE80)	2TX (NSS 1 / NSS / 2)	Support
802.11ax (HE160)	2TX (NSS 1 / NSS / 2)	Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80/VHT160 on 802.11ac mode and HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

* CDD mode is the worst case for final tests after pretesting CDD mode and Beamforming mode except output power test.

2. All models are listed as below.

Brand	Model	Difference
ASUS	RT-AX57	For marketing purpose
	RT-AX55 V2	
	RT-AX3000P	

3. The EUT contains following accessory devices.

Adapter 1	
Brand	SHENZHEN GONGJIN ELECTRONICS CO.,LTD
Model	S18B22-120A150-C4
Input Power	100-240Vac, 50-60Hz, 0.6A
Output Power	12Vdc, 1.5A
DC Output Cable	1.43m without core

Adapter 2	
Brand	SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD
Model	RD1201500-C55-198MG
Input Power	100-240Vac, 50-60Hz, 0.6A
Output Power	12Vdc, 1.5A
DC Output Cable	1.52m without core

4. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.
5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
6. WLAN 2.4G and 5G can transmit at same time.
7. Spurious emission of the simultaneous operation WLAN 2.4G and 5G has been evaluated and no non-compliance was found.

3.2 Description of Test Modes

For 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290

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

Channel	Frequency (MHz)
50	5250

For 5500 ~ 5720 MHz

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

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

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

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

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

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

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

Channel	Frequency (MHz)
114	5570

For 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

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

Channel	Frequency (MHz)
155	5775

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE \geq 1G	RE $<$ 1G	PLC	APCM	
A	√	√	√	√	NSS 1
B	√	-	-	√	NSS 2

Where **RE \geq 1G**: Radiated Emission above 1 GHz **RE $<$ 1G**: Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted 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**.
2. For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum power.
3. "-" means no effect.

Radiated Emission Test (Above 1 GHz):

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	Data Rate (Mbps)
A	5180-5250	802.11a	36 to 48	36, 40, 48	OFDM	6.0
		802.11ax (HE20)	36 to 48	36, 40, 48	OFDMA	MCS0
		802.11ax (HE40)	38 to 46	38, 46	OFDMA	MCS0
		802.11ax (HE80)	42	42	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5250-5320	802.11a	52 to 64	52, 60, 64	OFDM	6.0
		802.11ax (HE20)	52 to 64	52, 60, 64	OFDMA	MCS0
		802.11ax (HE40)	54 to 62	54, 62	OFDMA	MCS0
		802.11ax (HE80)	58	58	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	6.0
		802.11ax (HE20)	100 to 144	100, 116, 140, 144	OFDMA	MCS0
		802.11ax (HE40)	102 to 142	102, 110, 134, 142	OFDMA	MCS0
		802.11ax (HE80)	106 to 138	106, 122, 138	OFDMA	MCS0
		802.11ax (HE160)	114	114	OFDMA	MCS0
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	6.0
		802.11ax (HE20)	149 to 165	149, 157, 165	OFDMA	MCS0
		802.11ax (HE40)	151 to 159	151, 159	OFDMA	MCS0
		802.11ax (HE80)	155	155	OFDMA	MCS0
	B	5180-5250	802.11ax (HE20)	36 to 48	36	OFDMA
802.11ax (HE40)			38 to 46	38	OFDMA	MCS0
802.11ax (HE80)			42	42	OFDMA	MCS0
802.11ax (HE160)			50	50	OFDMA	MCS0
5250-5320		802.11ax (HE20)	52 to 64	64	OFDMA	MCS0
		802.11ax (HE40)	54 to 62	62	OFDMA	MCS0
		802.11ax (HE80)	58	58	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
5500-5720		802.11ax (HE20)	100 to 144	100, 140	OFDMA	MCS0
		802.11ax (HE40)	102 to 142	102, 134	OFDMA	MCS0
		802.11ax (HE80)	106 to 138	106	OFDMA	MCS0

Radiated Emission Test (Below 1 GHz):

- 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	Data Rate (Mbps)
A	5745-5825	802.11a	149 to 165	157	OFDM	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	Data Rate (Mbps)
A	5745-5825	802.11a	149 to 165	157	OFDM	6.0

Antenna Port Conducted Measurement:

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A	5180-5250	802.11a	36 to 48	36, 40, 48	OFDM	6.0
		802.11ax (HE20)	36 to 48	36, 40, 48	OFDMA	MCS0
		802.11ax (HE40)	38 to 46	38, 46	OFDMA	MCS0
		802.11ax (HE80)	42	42	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5250-5320	802.11a	52 to 64	52, 60, 64	OFDM	6.0
		802.11ax (HE20)	52 to 64	52, 60, 64	OFDMA	MCS0
		802.11ax (HE40)	54 to 62	54, 62	OFDMA	MCS0
		802.11ax (HE80)	58	58	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	6.0
		802.11ax (HE20)	100 to 144	100, 116, 140, 144	OFDMA	MCS0
		802.11ax (HE40)	102 to 142	102, 110, 134, 142	OFDMA	MCS0
		802.11ax (HE80)	106 to 138	106, 122, 138	OFDMA	MCS0
		802.11ax (HE160)	114	114	OFDMA	MCS0
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	6.0
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	
802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	
802.11ax (HE80)		155	155	OFDMA	MCS0	

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B	5180-5250	802.11ax (HE20)	36 to 48	36	OFDMA	MCS0
		802.11ax (HE40)	38 to 46	38	OFDMA	MCS0
		802.11ax (HE80)	42	42	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5250-5320	802.11ax (HE20)	52 to 64	64	OFDMA	MCS0
		802.11ax (HE40)	54 to 62	62	OFDMA	MCS0
		802.11ax (HE80)	58	58	OFDMA	MCS0
		802.11ax (HE160)	50	50	OFDMA	MCS0
	5500-5720	802.11ax (HE20)	100 to 144	100, 140	OFDMA	MCS0
		802.11ax (HE40)	102 to 142	102, 134	OFDMA	MCS0
		802.11ax (HE80)	106 to 138	106	OFDMA	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE \geq 1G	23 deg. C, 66 % RH	120 Vac, 60 Hz	Titan Hsu / Tim Chen / Wade Huang
RE<1G	23 deg. C, 66 % RH	120 Vac, 60 Hz	Titan Hsu
PLC	23 deg. C, 66 % RH	120 Vac, 60 Hz	Titan Hsu
APCM	25 deg. C, 60 % RH	120 Vac, 60 Hz	Jisyong Wang

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

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

Mode A

802.11a: Duty cycle = $2.95/3.002 = 0.983$, Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11ax (HE20): Duty cycle = $2.308/2.355 = 0.98$, Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11ax (HE40): Duty cycle = $2.382/2.435 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11ax (HE80): Duty cycle = $2.455/2.507 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11ax (HE160): Duty cycle = $0.289/0.322 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$



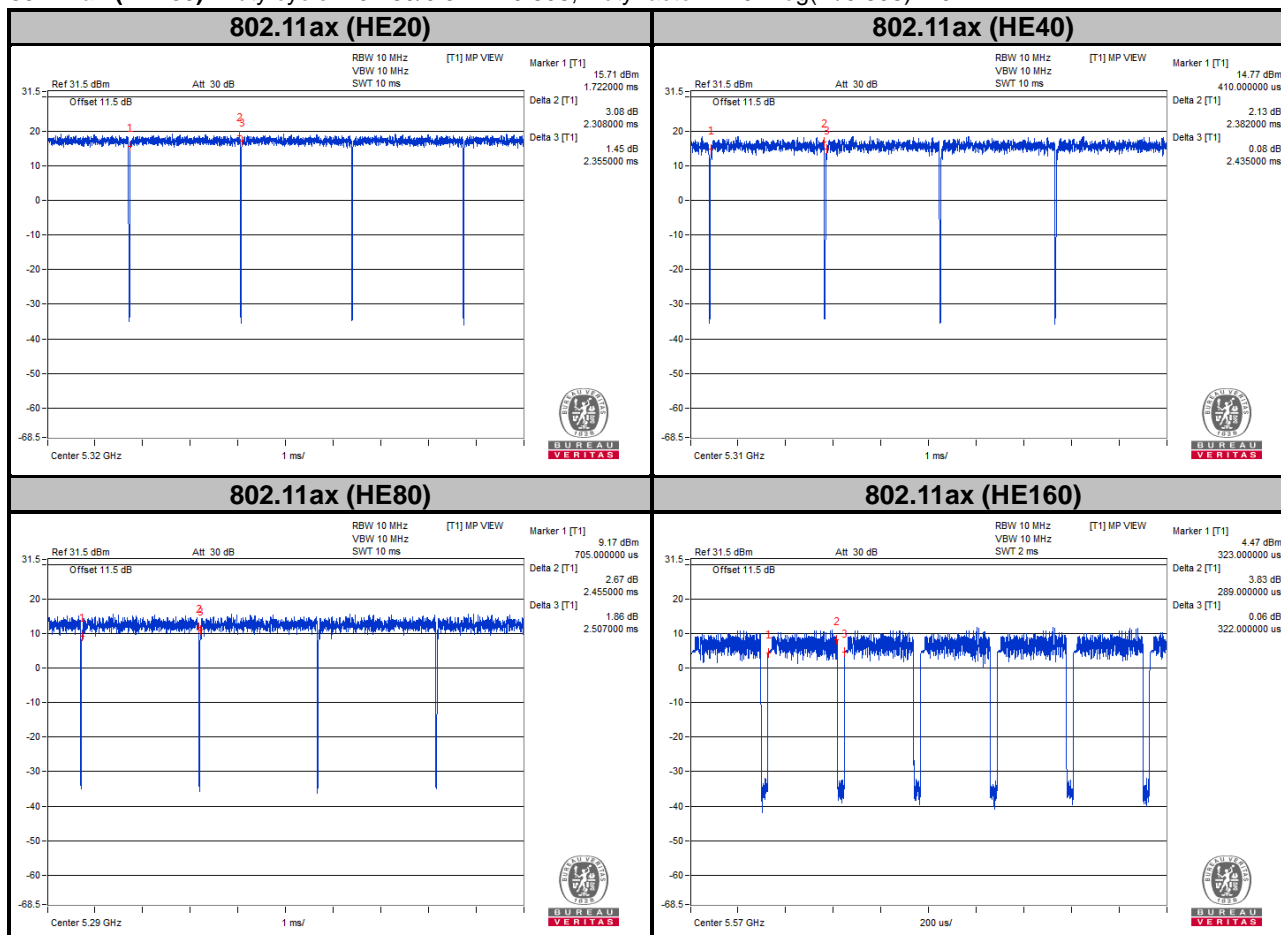
Mode B

802.11ax (HE20): Duty cycle = $2.308/2.355 = 0.98$, Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11ax (HE40): Duty cycle = $2.382/2.435 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11ax (HE80): Duty cycle = $2.455/2.507 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11ax (HE160): Duty cycle = $0.289/0.322 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$



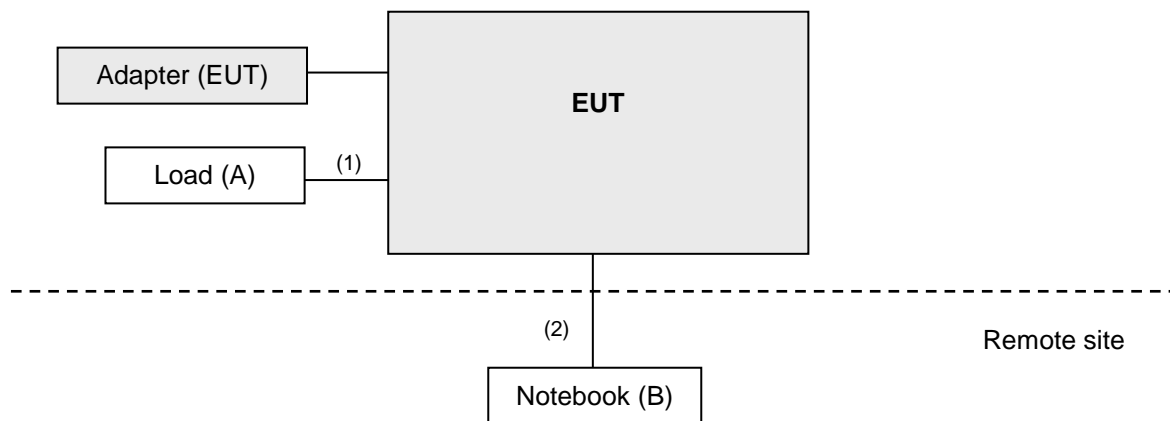
3.4 Description of Support Units

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	Load	N/A	N/A	N/A	N/A	Provided by Lab
B	Notebook	Lenovo	X250	PC06887H	N/A	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN Cable	4	1.5	N	0	Provided by Lab
2.	LAN Cable	1	10	N	0	Provided by Lab

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 Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, 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 20 dB under any condition of modulation.

Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
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	<input checked="" type="checkbox"/> 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}
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102782	Dec. 10, 2021	Dec. 09, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101866	Jan. 14, 2022	Jan. 13, 2023
BILOG Antenna SCHWARZBECK	VULB9168	9168-1213	Oct. 27, 2021	Oct. 26, 2022
HORN Antenna RF SPIN	DRH18-E	210103A18E	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-1048	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
			Jul. 27, 2022	Jul. 26, 2023
Preamplifier EMCI (Below 1GHz)	EMC330N	980782	Jan. 17, 2022	Jan. 16, 2023
Preamplifier EMCI (Above 1GHz)	EMC118A45SE	980808	Dec. 30, 2021	Dec. 29, 2022
Preamplifier EMCI (18GHz~40GHz)	EMC184045SE	980788	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC104-SM-SM-(9000+2000+1000)	201243+ 201231+ 210102	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMCCFD400-NM-NM-(9000+300+500)	201236+ 201235+ 201233	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC101G-KM-KM-(5000+3000+2000)	201260+201257+201254	Jan. 17, 2022	Jan. 16, 2023
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower & Turn Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Max-Full	MF-7802BS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208674	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208674	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 18, 2022	Jan. 17, 2023
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 17, 2022	Jan. 16, 2023

- 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 WM Chamber 8.

4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- 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 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) 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 detected 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:

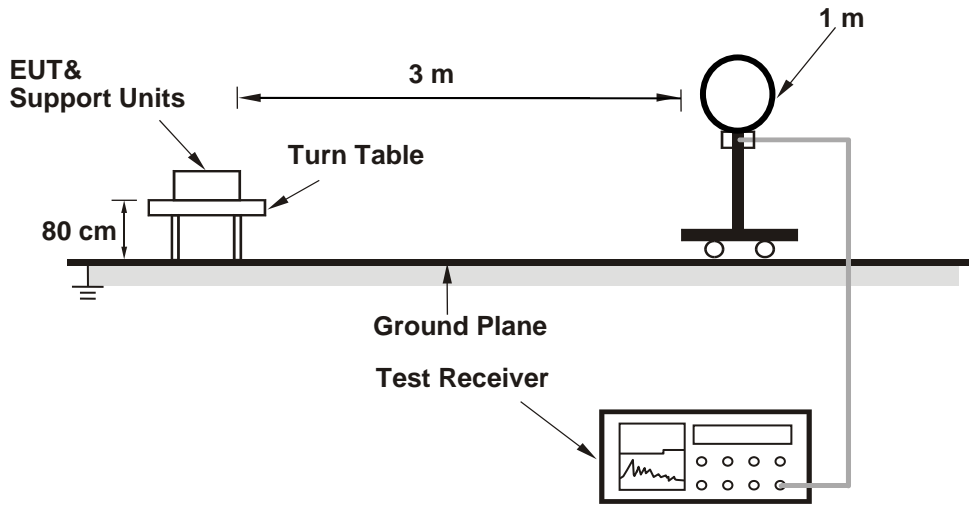
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle \geq 98 %) for Average detection (AV) at frequency above 1 GHz.
(Mode A: 11a: RBW = 1 MHz, VBW = 10 Hz ; 802.11ax (HE20): RBW = 1 MHz, VBW = 10 Hz ;
802.11ax (HE40): RBW = 1 MHz, VBW = 1 kHz ; 802.11ax (HE80): RBW = 1 MHz, VBW = 1 kHz
; 802.11ax (HE160): RBW = 1 MHz, VBW = 10 kHz;
Mode B: 802.11ax (HE20): RBW = 1 MHz, VBW = 10 Hz ;
802.11ax (HE40): RBW = 1 MHz, VBW = 1 kHz ; 802.11ax (HE80): RBW = 1 MHz, VBW = 1 kHz
; 802.11ax (HE160): RBW = 1 MHz, VBW = 10 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

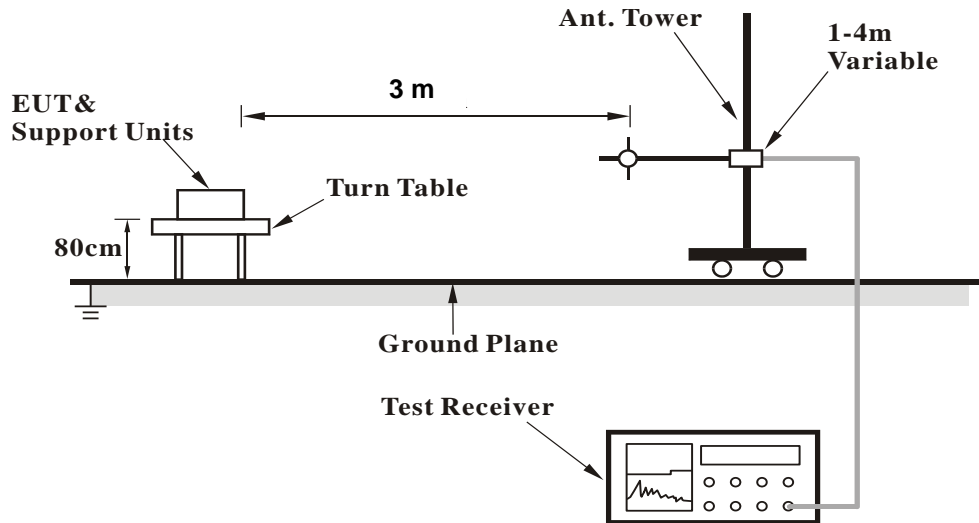
No deviation.

4.1.5 Test Setup

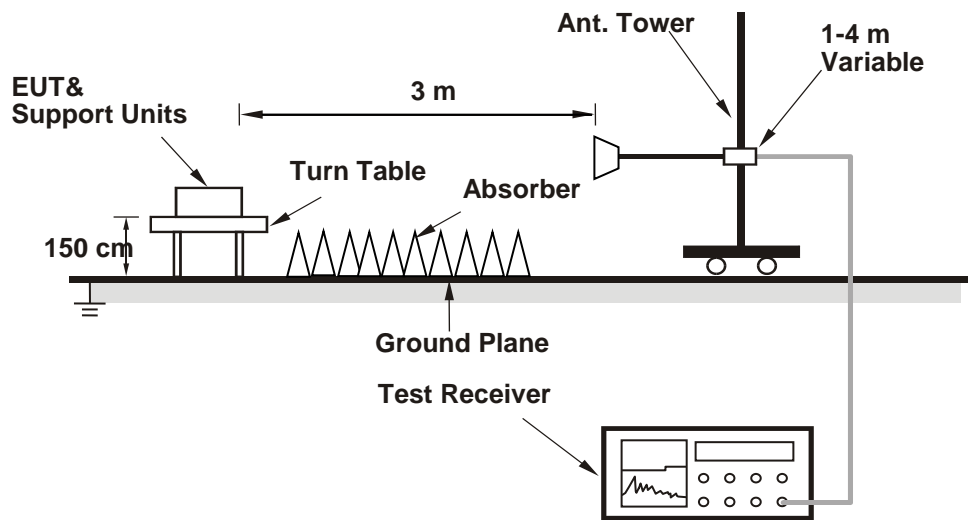
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

4.1.6 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Mode A

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	45.1 PK	74.0	-28.9	1.39 H	19	42.6	2.5
2	5150.00	31.1 AV	54.0	-22.9	1.39 H	19	28.6	2.5
3	*5180.00	107.1 PK			1.39 H	19	66.8	40.3
4	*5180.00	97.9 AV			1.39 H	19	57.6	40.3
5	#10360.00	56.2 PK	68.2	-12.0	1.25 H	300	47.7	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.0 PK	74.0	-6.0	1.53 V	207	65.5	2.5
2	5150.00	53.7 AV	54.0	-0.3	1.53 V	207	51.2	2.5
3	*5180.00	123.1 PK			1.53 V	207	82.8	40.3
4	*5180.00	113.9 AV			1.53 V	207	73.6	40.3
5	#10360.00	57.2 PK	68.2	-11.0	1.65 V	234	48.7	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	1.09 H	217	57.3	2.5
2	5150.00	46.3 AV	54.0	-7.7	1.09 H	217	43.8	2.5
3	*5200.00	112.0 PK			1.09 H	217	71.8	40.2
4	*5200.00	102.3 AV			1.09 H	217	62.1	40.2
5	#10400.00	55.7 PK	68.2	-12.5	1.12 H	26	47.3	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.5 PK	74.0	-4.5	1.45 V	143	67.0	2.5
2	5150.00	53.5 AV	54.0	-0.5	1.45 V	143	51.0	2.5
3	*5200.00	126.5 PK			1.45 V	143	86.3	40.2
4	*5200.00	116.7 AV			1.45 V	143	76.5	40.2
5	#10400.00	56.1 PK	68.2	-12.1	1.98 V	153	47.7	8.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.00 H	329	56.3	2.5
2	5150.00	45.2 AV	54.0	-8.8	1.00 H	329	42.7	2.5
3	*5240.00	113.0 PK			1.00 H	329	72.9	40.1
4	*5240.00	103.0 AV			1.00 H	329	62.9	40.1
5	5350.00	58.5 PK	74.0	-15.5	1.00 H	329	56.4	2.1
6	5350.00	45.2 AV	54.0	-8.8	1.00 H	329	43.1	2.1
7	#10480.00	55.7 PK	68.2	-12.5	1.41 H	16	47.2	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.6 PK	74.0	-9.4	1.68 V	210	62.1	2.5
2	5150.00	52.4 AV	54.0	-1.6	1.68 V	210	49.9	2.5
3	*5240.00	128.0 PK			1.68 V	210	87.9	40.1
4	*5240.00	118.5 AV			1.68 V	210	78.4	40.1
5	5350.00	64.4 PK	74.0	-9.6	1.68 V	210	62.3	2.1
6	5350.00	51.8 AV	54.0	-2.2	1.68 V	210	49.7	2.1
7	#10480.00	56.6 PK	68.2	-11.6	1.65 V	214	48.1	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	1.94 H	159	56.4	2.5
2	5150.00	45.3 AV	54.0	-8.7	1.94 H	159	42.8	2.5
3	*5260.00	107.8 PK			1.94 H	159	67.7	40.1
4	*5260.00	98.8 AV			1.94 H	159	58.7	40.1
5	5350.00	58.6 PK	74.0	-15.4	1.94 H	159	56.5	2.1
6	5350.00	44.9 AV	54.0	-9.1	1.94 H	159	42.8	2.1
7	#10520.00	55.9 PK	68.2	-12.3	1.34 H	174	47.4	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.0 PK	74.0	-13.0	2.01 V	229	58.5	2.5
2	5150.00	47.4 AV	54.0	-6.6	2.01 V	229	44.9	2.5
3	*5260.00	121.3 PK			2.01 V	229	81.2	40.1
4	*5260.00	111.5 AV			2.01 V	229	71.4	40.1
5	5350.00	61.6 PK	74.0	-12.4	2.01 V	229	59.5	2.1
6	5350.00	49.2 AV	54.0	-4.8	2.01 V	229	47.1	2.1
7	#10520.00	56.7 PK	68.2	-11.5	1.46 V	231	48.2	8.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	108.0 PK			1.91 H	153	68.0	40.0
2	*5300.00	98.9 AV			1.91 H	153	58.9	40.0
3	10600.00	56.0 PK	74.0	-18.0	1.42 H	104	47.2	8.8
4	10600.00	45.1 AV	54.0	-8.9	1.42 H	104	36.3	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	*5300.00	121.4 PK			2.03 V	221	81.4	40.0
2	*5300.00	111.7 AV			2.03 V	221	71.7	40.0
3	10600.00	56.6 PK	74.0	-17.4	2.00 V	100	47.8	8.8
4	10600.00	45.2 AV	54.0	-8.8	2.00 V	100	36.4	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.

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	108.6 PK			1.89 H	159	68.6	40.0
2	*5320.00	99.1 AV			1.89 H	159	59.1	40.0
3	5350.00	58.9 PK	74.0	-15.1	1.89 H	159	56.8	2.1
4	5350.00	45.6 AV	54.0	-8.4	1.89 H	159	43.5	2.1
5	10640.00	55.1 PK	74.0	-18.9	1.38 H	241	46.5	8.6
6	10640.00	44.8 AV	54.0	-9.2	1.38 H	241	36.2	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	*5320.00	121.8 PK			1.45 V	191	81.8	40.0
2	*5320.00	112.6 AV			1.45 V	191	72.6	40.0
3	5350.00	68.2 PK	74.0	-5.8	1.45 V	191	66.1	2.1
4	5350.00	53.4 AV	54.0	-0.6	1.45 V	191	51.3	2.1
5	10640.00	55.4 PK	74.0	-18.6	1.95 V	177	46.8	8.6
6	10640.00	45.2 AV	54.0	-8.8	1.95 V	177	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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	2.10 H	225	56.7	2.1
2	5460.00	45.5 AV	54.0	-8.5	2.10 H	225	43.4	2.1
3	#5470.00	59.2 PK	68.2	-9.0	2.10 H	225	57.1	2.1
4	*5500.00	108.3 PK			2.10 H	225	68.2	40.1
5	*5500.00	98.2 AV			2.10 H	225	58.1	40.1
6	11000.00	55.8 PK	74.0	-18.2	1.67 H	213	47.1	8.7
7	11000.00	44.5 AV	54.0	-9.5	1.67 H	213	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	5460.00	64.7 PK	74.0	-9.3	1.60 V	201	62.6	2.1
2	5460.00	51.3 AV	54.0	-2.7	1.60 V	201	49.2	2.1
3	#5470.00	67.7 PK	68.2	-0.5	1.60 V	201	65.6	2.1
4	*5500.00	121.2 PK			1.60 V	201	81.1	40.1
5	*5500.00	111.7 AV			1.60 V	201	71.6	40.1
6	11000.00	56.2 PK	74.0	-17.8	2.08 V	195	47.5	8.7
7	11000.00	45.2 AV	54.0	-8.8	2.08 V	195	36.5	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 802.11a	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	109.8 PK			2.08 H	225	68.9	40.9
2	*5580.00	100.3 AV			2.08 H	225	59.4	40.9
3	11160.00	56.1 PK	74.0	-17.9	1.66 H	234	47.3	8.8
4	11160.00	45.2 AV	54.0	-8.8	1.66 H	234	36.4	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	*5580.00	122.0 PK			1.64 V	188	81.1	40.9
2	*5580.00	112.8 AV			1.64 V	188	71.9	40.9
3	11160.00	56.6 PK	74.0	-17.4	2.05 V	199	47.8	8.8
4	11160.00	45.5 AV	54.0	-8.5	2.05 V	199	36.7	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.

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	106.7 PK			1.96 H	224	65.3	41.4
2	*5700.00	97.9 AV			1.96 H	224	56.5	41.4
3	#5725.00	60.9 PK	68.2	-7.3	1.96 H	224	57.2	3.7
4	11400.00	56.7 PK	74.0	-17.3	1.18 H	214	47.2	9.5
5	11400.00	45.3 AV	54.0	-8.7	1.18 H	214	35.8	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	119.3 PK			1.64 V	189	77.9	41.4
2	*5700.00	109.5 AV			1.64 V	189	68.1	41.4
3	#5725.00	67.7 PK	68.2	-0.5	1.64 V	189	64.0	3.7
4	11400.00	57.0 PK	74.0	-17.0	2.05 V	196	47.5	9.5
5	11400.00	45.7 AV	54.0	-8.3	2.05 V	196	36.2	9.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	58.9 PK	68.2	-9.3	2.02 H	224	56.8	2.1
2	*5720.00	108.9 PK			2.02 H	224	67.4	41.5
3	*5720.00	99.7 AV			2.02 H	224	58.2	41.5
4	#5850.00	60.1 PK	68.2	-8.1	2.02 H	224	56.4	3.7
5	11140.00	56.0 PK	74.0	-18.0	1.96 H	122	47.2	8.8
6	11140.00	45.0 AV	54.0	-9.0	1.96 H	122	36.2	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	61.7 PK	68.2	-6.5	1.67 V	185	59.6	2.1
2	*5720.00	120.7 PK			1.67 V	185	79.2	41.5
3	*5720.00	110.9 AV			1.67 V	185	69.4	41.5
4	#5850.00	61.8 PK	68.2	-6.4	1.67 V	185	58.1	3.7
5	11440.00	57.2 PK	74.0	-16.8	2.11 V	193	47.6	9.6
6	11440.00	46.2 AV	54.0	-7.8	2.11 V	193	36.6	9.6

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 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	*5745.00	113.0 PK			1.00 H	340	71.3	41.7
2	*5745.00	103.5 AV			1.00 H	340	61.8	41.7
3	11490.00	57.2 PK	74.0	-16.8	1.90 H	154	47.6	9.6
4	11490.00	45.3 AV	54.0	-8.7	1.90 H	154	35.7	9.6

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	*5745.00	126.9 PK			1.31 V	220	85.2	41.7
2	*5745.00	116.0 AV			1.31 V	220	74.3	41.7
3	11490.00	60.0 PK	74.0	-14.0	2.00 V	169	50.4	9.6
4	11490.00	47.2 AV	54.0	-6.8	2.00 V	169	37.6	9.6

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	*5785.00	113.1 PK			1.11 H	344	71.3	41.8
2	*5785.00	103.5 AV			1.11 H	344	61.7	41.8
3	11570.00	57.4 PK	74.0	-16.6	1.92 H	150	47.8	9.6
4	11570.00	44.5 AV	54.0	-9.5	1.92 H	150	34.9	9.6

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	*5785.00	128.1 PK			1.44 V	198	86.3	41.8
2	*5785.00	117.4 AV			1.44 V	198	75.6	41.8
3	11570.00	59.9 PK	74.0	-14.1	3.53 V	212	50.3	9.6
4	11570.00	47.0 AV	54.0	-7.0	3.53 V	212	37.4	9.6

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	*5825.00	111.2 PK			1.10 H	343	69.4	41.8
2	*5825.00	101.7 AV			1.10 H	343	59.9	41.8
3	11650.00	57.4 PK	74.0	-16.6	1.81 H	144	47.9	9.5
4	11650.00	44.6 AV	54.0	-9.4	1.81 H	144	35.1	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	127.7 PK			1.45 V	198	85.9	41.8
2	*5825.00	118.4 AV			1.45 V	198	76.6	41.8
3	11650.00	61.8 PK	74.0	-12.2	3.10 V	207	52.3	9.5
4	11650.00	48.1 AV	54.0	-5.9	3.10 V	207	38.6	9.5

Remarks:

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

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	59.0 PK	74.0	-15.0	1.32 H	19	56.5	2.5
2	5150.00	45.7 AV	54.0	-8.3	1.32 H	19	43.2	2.5
3	*5180.00	108.8 PK			1.32 H	19	68.5	40.3
4	*5180.00	96.9 AV			1.32 H	19	56.6	40.3
5	#10360.00	55.7 PK	68.2	-12.5	1.86 H	32	47.2	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.51 V	207	64.2	2.5
2	5150.00	53.6 AV	54.0	-0.4	1.51 V	207	51.1	2.5
3	*5180.00	124.5 PK			1.51 V	207	84.2	40.3
4	*5180.00	112.1 AV			1.51 V	207	71.8	40.3
5	#10360.00	56.1 PK	68.2	-12.1	1.42 V	134	47.6	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.18 H	218	56.9	2.5
2	5150.00	45.8 AV	54.0	-8.2	1.18 H	218	43.3	2.5
3	*5200.00	112.5 PK			1.18 H	218	72.3	40.2
4	*5200.00	100.5 AV			1.18 H	218	60.3	40.2
5	#10400.00	55.6 PK	68.2	-12.6	1.32 H	166	47.2	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.45 V	208	63.5	2.5
2	5150.00	53.8 AV	54.0	-0.2	1.45 V	208	51.3	2.5
3	*5200.00	129.1 PK			1.45 V	208	88.9	40.2
4	*5200.00	116.7 AV			1.45 V	208	76.5	40.2
5	#10400.00	56.0 PK	68.2	-12.2	1.68 V	234	47.6	8.4

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.00 H	218	56.3	2.5
2	5150.00	45.4 AV	54.0	-8.6	1.00 H	218	42.9	2.5
3	*5240.00	113.8 PK			1.00 H	218	73.7	40.1
4	*5240.00	101.9 AV			1.00 H	218	61.8	40.1
5	5350.00	58.4 PK	74.0	-15.6	1.00 H	218	56.3	2.1
6	5350.00	45.0 AV	54.0	-9.0	1.00 H	218	42.9	2.1
7	#10480.00	56.0 PK	68.2	-12.2	1.34 H	265	47.5	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.60 V	193	64.3	2.5
2	5150.00	53.2 AV	54.0	-0.8	1.60 V	193	50.7	2.5
3	*5240.00	128.9 PK			1.60 V	193	88.8	40.1
4	*5240.00	117.0 AV			1.60 V	193	76.9	40.1
5	5350.00	64.6 PK	74.0	-9.4	1.60 V	193	62.5	2.1
6	5350.00	51.7 AV	54.0	-2.3	1.60 V	193	49.6	2.1
7	#10480.00	57.3 PK	68.2	-10.9	2.01 V	152	48.8	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.88 H	160	56.9	2.5
2	5150.00	45.4 AV	54.0	-8.6	1.88 H	160	42.9	2.5
3	*5260.00	109.8 PK			1.88 H	160	69.7	40.1
4	*5260.00	97.8 AV			1.88 H	160	57.7	40.1
5	5350.00	58.8 PK	74.0	-15.2	1.88 H	160	56.7	2.1
6	5350.00	45.2 AV	54.0	-8.8	1.88 H	160	43.1	2.1
7	#10520.00	55.6 PK	68.2	-12.6	1.24 H	133	47.1	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.0 PK	74.0	-13.0	1.95 V	229	58.5	2.5
2	5150.00	47.6 AV	54.0	-6.4	1.95 V	229	45.1	2.5
3	*5260.00	123.0 PK			1.95 V	229	82.9	40.1
4	*5260.00	110.9 AV			1.95 V	229	70.8	40.1
5	5350.00	62.0 PK	74.0	-12.0	1.95 V	229	59.9	2.1
6	5350.00	49.2 AV	54.0	-4.8	1.95 V	229	47.1	2.1
7	#10520.00	56.3 PK	68.2	-11.9	1.34 V	204	47.8	8.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	107.9 PK			1.87 H	159	67.9	40.0
2	*5300.00	98.4 AV			1.87 H	159	58.4	40.0
3	10600.00	55.5 PK	74.0	-18.5	1.04 H	241	46.7	8.8
4	10600.00	44.9 AV	54.0	-9.1	1.04 H	241	36.1	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	*5300.00	121.9 PK			1.99 V	221	81.9	40.0
2	*5300.00	112.1 AV			1.99 V	221	72.1	40.0
3	10600.00	56.4 PK	74.0	-17.6	1.24 V	103	47.6	8.8
4	10600.00	45.6 AV	54.0	-8.4	1.24 V	103	36.8	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.

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	110.1 PK			1.89 H	160	70.1	40.0
2	*5320.00	97.6 AV			1.89 H	160	57.6	40.0
3	5350.00	59.0 PK	74.0	-15.0	1.89 H	160	56.9	2.1
4	5350.00	45.8 AV	54.0	-8.2	1.89 H	160	43.7	2.1
5	10640.00	55.9 PK	74.0	-18.1	1.20 H	117	47.3	8.6
6	10640.00	45.2 AV	54.0	-8.8	1.20 H	117	36.6	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	*5320.00	124.1 PK			1.37 V	203	84.1	40.0
2	*5320.00	112.2 AV			1.37 V	203	72.2	40.0
3	5350.00	68.2 PK	74.0	-5.8	1.37 V	203	66.1	2.1
4	5350.00	53.7 AV	54.0	-0.3	1.37 V	203	51.6	2.1
5	10640.00	56.4 PK	74.0	-17.6	1.68 V	321	47.8	8.6
6	10640.00	46.0 AV	54.0	-8.0	1.68 V	321	37.4	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.

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	57.4 PK	74.0	-16.6	1.03 H	244	55.3	2.1
2	5460.00	44.7 AV	54.0	-9.3	1.03 H	244	42.6	2.1
3	#5470.00	57.8 PK	68.2	-10.4	1.03 H	244	55.7	2.1
4	*5500.00	108.1 PK			1.03 H	244	68.0	40.1
5	*5500.00	95.2 AV			1.03 H	244	55.1	40.1
6	11000.00	55.7 PK	74.0	-18.3	1.92 H	131	47.0	8.7
7	11000.00	43.7 AV	54.0	-10.3	1.92 H	131	35.0	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	5460.00	66.1 PK	74.0	-7.9	1.56 V	187	64.0	2.1
2	5460.00	51.9 AV	54.0	-2.1	1.56 V	187	49.8	2.1
3	#5470.00	67.6 PK	68.2	-0.6	1.56 V	187	65.5	2.1
4	*5500.00	121.8 PK			1.56 V	187	81.7	40.1
5	*5500.00	110.3 AV			1.56 V	187	70.2	40.1
6	11000.00	55.9 PK	74.0	-18.1	2.11 V	189	47.2	8.7
7	11000.00	44.9 AV	54.0	-9.1	2.11 V	189	36.2	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 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	111.0 PK			1.43 H	337	70.1	40.9
2	*5580.00	98.7 AV			1.43 H	337	57.8	40.9
3	11160.00	56.5 PK	74.0	-17.5	1.90 H	135	47.7	8.8
4	11160.00	44.2 AV	54.0	-9.8	1.90 H	135	35.4	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	*5580.00	123.9 PK			1.41 V	198	83.0	40.9
2	*5580.00	112.3 AV			1.41 V	198	71.4	40.9
3	11160.00	56.7 PK	74.0	-17.3	2.05 V	199	47.9	8.8
4	11160.00	44.4 AV	54.0	-9.6	2.05 V	199	35.6	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.

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	107.9 PK			1.22 H	336	66.5	41.4
2	*5700.00	94.8 AV			1.22 H	336	53.4	41.4
3	#5725.00	64.4 PK	68.2	-3.8	1.22 H	336	60.7	3.7
4	11400.00	56.5 PK	74.0	-17.5	1.87 H	144	47.0	9.5
5	11400.00	44.8 AV	54.0	-9.2	1.87 H	144	35.3	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	120.1 PK			1.60 V	188	78.7	41.4
2	*5700.00	108.1 AV			1.60 V	188	66.7	41.4
3	#5725.00	67.9 PK	68.2	-0.3	1.60 V	188	64.2	3.7
4	11400.00	56.7 PK	74.0	-17.3	2.05 V	197	47.2	9.5
5	11400.00	45.5 AV	54.0	-8.5	2.05 V	197	36.0	9.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	57.7 PK	68.2	-10.5	1.50 H	220	55.6	2.1
2	*5720.00	108.7 PK			1.50 H	220	67.2	41.5
3	*5720.00	96.4 AV			1.50 H	220	54.9	41.5
4	#5850.00	60.6 PK	68.2	-7.6	1.50 H	220	56.9	3.7
5	11440.00	57.0 PK	74.0	-17.0	1.91 H	151	47.4	9.6
6	11440.00	45.6 AV	54.0	-8.4	1.91 H	151	36.0	9.6

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	#5470.00	61.3 PK	68.2	-6.9	1.59 V	199	59.2	2.1
2	*5720.00	125.2 PK			1.59 V	199	83.7	41.5
3	*5720.00	112.0 AV			1.59 V	199	70.5	41.5
4	#5850.00	62.5 PK	68.2	-5.7	1.59 V	199	58.8	3.7
5	11440.00	57.2 PK	74.0	-16.8	2.11 V	205	47.6	9.6
6	11440.00	45.8 AV	54.0	-8.2	2.11 V	205	36.2	9.6

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 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	*5745.00	114.3 PK			1.02 H	340	72.6	41.7
2	*5745.00	102.7 AV			1.02 H	340	61.0	41.7
3	11490.00	57.4 PK	74.0	-16.6	1.83 H	146	47.8	9.6
4	11490.00	44.8 AV	54.0	-9.2	1.83 H	146	35.2	9.6

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	*5745.00	129.5 PK			1.30 V	214	87.8	41.7
2	*5745.00	117.4 AV			1.30 V	214	75.7	41.7
3	11490.00	63.9 PK	74.0	-10.1	1.98 V	213	54.3	9.6
4	11490.00	50.3 AV	54.0	-3.7	1.98 V	213	40.7	9.6

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	*5785.00	114.1 PK			1.14 H	344	72.3	41.8
2	*5785.00	102.7 AV			1.14 H	344	60.9	41.8
3	11570.00	57.7 PK	74.0	-16.3	1.84 H	151	48.1	9.6
4	11570.00	45.1 AV	54.0	-8.9	1.84 H	151	35.5	9.6

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	*5785.00	129.6 PK			1.34 V	215	87.8	41.8
2	*5785.00	118.1 AV			1.34 V	215	76.3	41.8
3	11570.00	64.7 PK	74.0	-9.3	3.05 V	215	55.1	9.6
4	11570.00	50.2 AV	54.0	-3.8	3.05 V	215	40.6	9.6

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	*5825.00	114.5 PK			1.08 H	216	72.7	41.8
2	*5825.00	103.1 AV			1.08 H	216	61.3	41.8
3	11650.00	57.5 PK	74.0	-16.5	1.82 H	149	48.0	9.5
4	11650.00	44.8 AV	54.0	-9.2	1.82 H	149	35.3	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	128.6 PK			1.31 V	219	86.8	41.8
2	*5825.00	119.3 AV			1.31 V	219	77.5	41.8
3	11650.00	63.8 PK	74.0	-10.2	3.05 V	204	54.3	9.5
4	11650.00	50.7 AV	54.0	-3.3	3.05 V	204	41.2	9.5

Remarks:

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

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	58.6 PK	74.0	-15.4	1.03 H	330	56.1	2.5
2	5150.00	46.0 AV	54.0	-8.0	1.03 H	330	43.5	2.5
3	*5190.00	104.6 PK			1.03 H	330	64.3	40.3
4	*5190.00	92.0 AV			1.03 H	330	51.7	40.3
5	#10380.00	55.7 PK	68.2	-12.5	1.55 H	243	47.2	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.0 PK	74.0	-7.0	1.52 V	208	64.5	2.5
2	5150.00	53.7 AV	54.0	-0.3	1.52 V	208	51.2	2.5
3	*5190.00	119.0 PK			1.52 V	208	78.7	40.3
4	*5190.00	106.9 AV			1.52 V	208	66.6	40.3
5	#10380.00	56.8 PK	68.2	-11.4	1.98 V	152	48.3	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.03 H	329	56.3	2.5
2	5150.00	46.1 AV	54.0	-7.9	1.03 H	329	43.6	2.5
3	*5230.00	109.9 PK			1.03 H	329	69.8	40.1
4	*5230.00	97.4 AV			1.03 H	329	57.3	40.1
5	5350.00	58.7 PK	74.0	-15.3	1.03 H	329	56.6	2.1
6	5350.00	45.3 AV	54.0	-8.7	1.03 H	329	43.2	2.1
7	#10460.00	55.7 PK	68.2	-12.5	1.00 H	54	47.2	8.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.7 PK	74.0	-6.3	1.24 V	207	65.2	2.5
2	5150.00	53.6 AV	54.0	-0.4	1.24 V	207	51.1	2.5
3	*5230.00	125.3 PK			1.24 V	207	85.2	40.1
4	*5230.00	112.8 AV			1.24 V	207	72.7	40.1
5	5350.00	65.6 PK	74.0	-8.4	1.24 V	207	63.5	2.1
6	5350.00	50.9 AV	54.0	-3.1	1.24 V	207	48.8	2.1
7	#10460.00	56.1 PK	68.2	-12.1	1.68 V	352	47.6	8.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	58.9 PK	74.0	-15.1	1.88 H	161	56.4	2.5
2	5150.00	45.4 AV	54.0	-8.6	1.88 H	161	42.9	2.5
3	*5270.00	107.8 PK			1.88 H	161	67.7	40.1
4	*5270.00	95.0 AV			1.88 H	161	54.9	40.1
5	5350.00	58.8 PK	74.0	-15.2	1.88 H	161	56.7	2.1
6	5350.00	45.5 AV	54.0	-8.5	1.88 H	161	43.4	2.1
7	#10540.00	55.4 PK	68.2	-12.8	1.64 H	214	46.8	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	5150.00	61.6 PK	74.0	-12.4	1.90 V	325	59.1	2.5
2	5150.00	48.8 AV	54.0	-5.2	1.90 V	325	46.3	2.5
3	*5270.00	120.6 PK			1.90 V	325	80.5	40.1
4	*5270.00	108.4 AV			1.90 V	325	68.3	40.1
5	5350.00	62.7 PK	74.0	-11.3	1.90 V	325	60.6	2.1
6	5350.00	50.3 AV	54.0	-3.7	1.90 V	325	48.2	2.1
7	#10540.00	56.4 PK	68.2	-11.8	1.26 V	304	47.8	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 (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	105.6 PK			1.90 H	161	65.6	40.0
2	*5310.00	92.9 AV			1.90 H	161	52.9	40.0
3	5350.00	59.5 PK	74.0	-14.5	1.90 H	161	57.4	2.1
4	5350.00	46.3 AV	54.0	-7.7	1.90 H	161	44.2	2.1
5	10620.00	55.9 PK	74.0	-18.1	1.32 H	204	47.2	8.7
6	10620.00	44.5 AV	54.0	-9.5	1.32 H	204	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	*5310.00	119.2 PK			1.42 V	203	79.2	40.0
2	*5310.00	106.5 AV			1.42 V	203	66.5	40.0
3	5350.00	68.7 PK	74.0	-5.3	1.42 V	203	66.6	2.1
4	5350.00	53.8 AV	54.0	-0.2	1.42 V	203	51.7	2.1
5	10620.00	56.5 PK	74.0	-17.5	1.93 V	203	47.8	8.7
6	10620.00	46.2 AV	54.0	-7.8	1.93 V	203	37.5	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.

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	58.0 PK	74.0	-16.0	1.09 H	243	55.9	2.1
2	5460.00	44.6 AV	54.0	-9.4	1.09 H	243	42.5	2.1
3	#5470.00	58.2 PK	68.2	-10.0	1.09 H	243	56.1	2.1
4	*5510.00	105.1 PK			1.09 H	243	64.8	40.3
5	*5510.00	92.3 AV			1.09 H	243	52.0	40.3
6	11020.00	55.7 PK	74.0	-18.3	1.87 H	143	47.0	8.7
7	11020.00	44.0 AV	54.0	-10.0	1.87 H	143	35.3	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	5460.00	66.2 PK	74.0	-7.8	1.50 V	197	64.1	2.1
2	5460.00	52.0 AV	54.0	-2.0	1.50 V	197	49.9	2.1
3	#5470.00	68.0 PK	68.2	-0.2	1.50 V	197	65.9	2.1
4	*5510.00	120.1 PK			1.50 V	197	79.8	40.3
5	*5510.00	107.2 AV			1.50 V	197	66.9	40.3
6	11020.00	56.0 PK	74.0	-18.0	2.05 V	198	47.3	8.7
7	11020.00	44.3 AV	54.0	-9.7	2.05 V	198	35.6	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 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	108.3 PK			1.00 H	329	67.7	40.6
2	*5550.00	95.4 AV			1.00 H	329	54.8	40.6
3	11100.00	55.7 PK	74.0	-18.3	1.84 H	152	46.8	8.9
4	11100.00	44.5 AV	54.0	-9.5	1.84 H	152	35.6	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	121.5 PK			1.55 V	199	80.9	40.6
2	*5550.00	109.1 AV			1.55 V	199	68.5	40.6
3	11100.00	56.0 PK	74.0	-18.0	2.06 V	194	47.1	8.9
4	11100.00	44.8 AV	54.0	-9.2	2.06 V	194	35.9	8.9

Remarks:

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

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	106.5 PK			1.01 H	336	65.1	41.4
2	*5670.00	93.5 AV			1.01 H	336	52.1	41.4
3	#5725.00	60.3 PK	68.2	-7.9	1.01 H	336	56.6	3.7
4	11340.00	56.0 PK	74.0	-18.0	1.86 H	140	46.5	9.5
5	11340.00	44.9 AV	54.0	-9.1	1.86 H	140	35.4	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	120.3 PK			1.34 V	198	78.9	41.4
2	*5670.00	108.0 AV			1.34 V	198	66.6	41.4
3	#5725.00	68.0 PK	68.2	-0.2	1.34 V	198	64.3	3.7
4	11340.00	56.2 PK	74.0	-17.8	2.07 V	194	46.7	9.5
5	11340.00	45.0 AV	54.0	-9.0	2.07 V	194	35.5	9.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	57.4 PK	68.2	-10.8	1.00 H	341	55.3	2.1
2	*5710.00	107.7 PK			1.00 H	341	66.2	41.5
3	*5710.00	94.7 AV			1.00 H	341	53.2	41.5
4	#5850.00	60.0 PK	68.2	-8.2	1.00 H	341	56.3	3.7
5	11420.00	56.3 PK	74.0	-17.7	1.83 H	138	46.7	9.6
6	11420.00	45.2 AV	54.0	-8.8	1.83 H	138	35.6	9.6

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	#5470.00	61.6 PK	68.2	-6.6	1.50 V	199	59.5	2.1
2	*5710.00	121.5 PK			1.50 V	199	80.0	41.5
3	*5710.00	107.8 AV			1.50 V	199	66.3	41.5
4	#5850.00	61.8 PK	68.2	-6.4	1.50 V	199	58.1	3.7
5	11420.00	56.4 PK	74.0	-17.6	2.07 V	196	46.8	9.6
6	11420.00	45.4 AV	54.0	-8.6	2.07 V	196	35.8	9.6

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 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	*5755.00	112.1 PK			1.00 H	222	70.3	41.8
2	*5755.00	99.3 AV			1.00 H	222	57.5	41.8
3	11510.00	57.8 PK	74.0	-16.2	1.79 H	152	48.2	9.6
4	11510.00	45.1 AV	54.0	-8.9	1.79 H	152	35.5	9.6

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	*5755.00	126.0 PK			1.28 V	215	84.2	41.8
2	*5755.00	113.2 AV			1.28 V	215	71.4	41.8
3	11510.00	60.0 PK	74.0	-14.0	2.54 V	356	50.4	9.6
4	11510.00	47.4 AV	54.0	-6.6	2.54 V	356	37.8	9.6

Remarks:

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

RF Mode	TX 802.11ax (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	*5795.00	112.2 PK			1.00 H	220	70.4	41.8
2	*5795.00	99.2 AV			1.00 H	220	57.4	41.8
3	11590.00	57.5 PK	74.0	-16.5	1.63 H	149	48.0	9.5
4	11590.00	44.9 AV	54.0	-9.1	1.63 H	149	35.4	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5795.00	127.5 PK			1.25 V	215	85.7	41.8
2	*5795.00	114.9 AV			1.25 V	215	73.1	41.8
3	11590.00	61.2 PK	74.0	-12.8	2.57 V	352	51.7	9.5
4	11590.00	48.1 AV	54.0	-5.9	2.57 V	352	38.6	9.5

Remarks:

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

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	59.4 PK	74.0	-14.6	1.95 H	159	56.9	2.5
2	5150.00	46.3 AV	54.0	-7.7	1.95 H	159	43.8	2.5
3	*5210.00	102.3 PK			1.95 H	159	62.1	40.2
4	*5210.00	90.0 AV			1.95 H	159	49.8	40.2
5	#10420.00	55.6 PK	68.2	-12.6	2.13 H	306	47.2	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.3 PK	74.0	-6.7	1.59 V	204	64.8	2.5
2	5150.00	53.8 AV	54.0	-0.2	1.59 V	204	51.3	2.5
3	*5210.00	117.6 PK			1.59 V	204	77.4	40.2
4	*5210.00	104.7 AV			1.59 V	204	64.5	40.2
5	#10420.00	56.2 PK	68.2	-12.0	1.13 V	302	47.8	8.4

Remarks:

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

RF Mode	TX 802.11ax (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	*5290.00	102.9 PK			1.90 H	161	62.9	40.0
2	*5290.00	91.1 AV			1.90 H	161	51.1	40.0
3	5350.00	59.0 PK	74.0	-15.0	1.90 H	161	56.9	2.1
4	5350.00	46.2 AV	54.0	-7.8	1.90 H	161	44.1	2.1
5	#10580.00	55.9 PK	68.2	-12.3	1.31 H	102	47.2	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	*5290.00	116.7 PK			1.40 V	204	76.7	40.0
2	*5290.00	104.1 AV			1.40 V	204	64.1	40.0
3	5350.00	68.0 PK	74.0	-6.0	1.40 V	204	65.9	2.1
4	5350.00	53.8 AV	54.0	-0.2	1.40 V	204	51.7	2.1
5	#10580.00	56.4 PK	68.2	-11.8	1.68 V	212	47.7	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 (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	57.9 PK	74.0	-16.1	1.09 H	335	55.8	2.1
2	5460.00	44.2 AV	54.0	-9.8	1.09 H	335	42.1	2.1
3	#5470.00	58.5 PK	68.2	-9.7	1.09 H	335	56.4	2.1
4	*5530.00	102.3 PK			1.09 H	335	61.9	40.4
5	*5530.00	90.2 AV			1.09 H	335	49.8	40.4
6	#5725.00	60.6 PK	68.2	-7.6	1.09 H	335	56.9	3.7
7	11060.00	55.3 PK	74.0	-18.7	1.80 H	143	46.5	8.8
8	11060.00	43.5 AV	54.0	-10.5	1.80 H	143	34.7	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	5460.00	65.5 PK	74.0	-8.5	1.56 V	201	63.4	2.1
2	5460.00	50.9 AV	54.0	-3.1	1.56 V	201	48.8	2.1
3	#5470.00	68.0 PK	68.2	-0.2	1.56 V	201	65.9	2.1
4	*5530.00	117.6 PK			1.56 V	201	77.2	40.4
5	*5530.00	104.2 AV			1.56 V	201	63.8	40.4
6	#5725.00	62.3 PK	68.2	-5.9	1.56 V	201	58.6	3.7
7	11060.00	55.4 PK	74.0	-18.6	2.02 V	195	46.6	8.8
8	11060.00	43.6 AV	54.0	-10.4	2.02 V	195	34.8	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 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	57.3 PK	74.0	-16.7	1.00 H	333	55.2	2.1
2	5460.00	44.3 AV	54.0	-9.7	1.00 H	333	42.2	2.1
3	#5470.00	57.4 PK	68.2	-10.8	1.00 H	333	55.3	2.1
4	*5610.00	105.7 PK			1.00 H	333	64.6	41.1
5	*5610.00	94.0 AV			1.00 H	333	52.9	41.1
6	#5725.00	62.2 PK	68.2	-6.0	1.00 H	333	58.5	3.7
7	11220.00	55.3 PK	74.0	-18.7	1.91 H	151	46.4	8.9
8	11220.00	43.2 AV	54.0	-10.8	1.91 H	151	34.3	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.2 PK	74.0	-8.8	1.54 V	187	63.1	2.1
2	5460.00	52.3 AV	54.0	-1.7	1.54 V	187	50.2	2.1
3	#5470.00	65.4 PK	68.2	-2.8	1.54 V	187	63.3	2.1
4	*5610.00	118.3 PK			1.54 V	187	77.2	41.1
5	*5610.00	106.0 AV			1.54 V	187	64.9	41.1
6	#5725.00	67.6 PK	68.2	-0.6	1.54 V	187	63.9	3.7
7	11220.00	55.5 PK	74.0	-18.5	2.01 V	193	46.6	8.9
8	11220.00	43.4 AV	54.0	-10.6	2.01 V	193	34.5	8.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	1.02 H	341	55.4	2.1
2	*5690.00	103.9 PK			1.02 H	341	62.5	41.4
3	*5690.00	91.8 AV			1.02 H	341	50.4	41.4
4	#5850.00	60.4 PK	68.2	-7.8	1.02 H	341	56.7	3.7
5	11380.00	55.9 PK	74.0	-18.1	1.87 H	149	46.4	9.5
6	11380.00	44.2 AV	54.0	-9.8	1.87 H	149	34.7	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.5 PK	68.2	-6.7	1.55 V	150	59.4	2.1
2	*5690.00	116.2 PK			1.55 V	150	74.8	41.4
3	*5690.00	103.4 AV			1.55 V	150	62.0	41.4
4	#5850.00	63.7 PK	68.2	-4.5	1.55 V	150	60.0	3.7
5	11380.00	56.1 PK	74.0	-17.9	2.05 V	198	46.6	9.5
6	11380.00	44.4 AV	54.0	-9.6	2.05 V	198	34.9	9.5

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	*5775.00	106.6 PK			1.01 H	221	64.9	41.7
2	*5775.00	93.6 AV			1.01 H	221	51.9	41.7
3	11550.00	57.2 PK	74.0	-16.8	1.60 H	151	47.6	9.6
4	11550.00	44.6 AV	54.0	-9.4	1.60 H	151	35.0	9.6

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	*5775.00	119.3 PK			1.35 V	215	77.6	41.7
2	*5775.00	107.2 AV			1.35 V	215	65.5	41.7
3	11550.00	57.5 PK	74.0	-16.5	2.52 V	348	47.9	9.6
4	11550.00	44.8 AV	54.0	-9.2	2.52 V	348	35.2	9.6

Remarks:

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

RF Mode	TX 802.11ax (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	1.88 H	160	57.2	2.5
2	5150.00	45.9 AV	54.0	-8.1	1.88 H	160	43.4	2.5
3	*5250.00	100.6 PK			1.88 H	160	60.5	40.1
4	*5250.00	88.2 AV			1.88 H	160	48.1	40.1
5	5350.00	60.8 PK	74.0	-13.2	1.88 H	160	58.7	2.1
6	5350.00	46.4 AV	54.0	-7.6	1.88 H	160	44.3	2.1
7	#10500.00	55.6 PK	68.2	-12.6	2.03 H	183	47.2	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.7 PK	74.0	-6.3	1.58 V	204	65.2	2.5
2	5150.00	51.2 AV	54.0	-2.8	1.58 V	204	48.7	2.5
3	*5250.00	113.7 PK			1.58 V	204	73.6	40.1
4	*5250.00	101.3 AV			1.58 V	204	61.2	40.1
5	5350.00	70.8 PK	74.0	-3.2	1.58 V	204	68.7	2.1
6	5350.00	53.7 AV	54.0	-0.3	1.58 V	204	51.6	2.1
7	#10500.00	56.3 PK	68.2	-11.9	1.96 V	174	47.9	8.4

Remarks:

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

RF Mode	TX 802.11ax (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	59.0 PK	74.0	-15.0	2.11 H	225	56.9	2.1
2	5460.00	45.3 AV	54.0	-8.7	2.11 H	225	43.2	2.1
3	#5470.00	60.9 PK	68.2	-7.3	2.11 H	225	58.8	2.1
4	*5570.00	99.0 PK			2.11 H	225	58.2	40.8
5	*5570.00	86.2 AV			2.11 H	225	45.4	40.8
6	#5725.00	59.6 PK	68.2	-8.6	2.11 H	225	55.9	3.7
7	11140.00	55.9 PK	74.0	-18.1	1.26 H	21	47.1	8.8
8	11140.00	45.3 AV	54.0	-8.7	1.26 H	21	36.5	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	5460.00	66.5 PK	74.0	-7.5	1.42 V	197	64.4	2.1
2	5460.00	50.0 AV	54.0	-4.0	1.42 V	197	47.9	2.1
3	#5470.00	68.0 PK	68.2	-0.2	1.42 V	197	65.9	2.1
4	*5570.00	111.8 PK			1.42 V	197	71.0	40.8
5	*5570.00	99.2 AV			1.42 V	197	58.4	40.8
6	#5725.00	67.4 PK	68.2	-0.8	1.42 V	197	63.7	3.7
7	11140.00	56.5 PK	74.0	-17.5	1.42 V	135	47.7	8.8
8	11140.00	46.2 AV	54.0	-7.8	1.42 V	135	37.4	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.

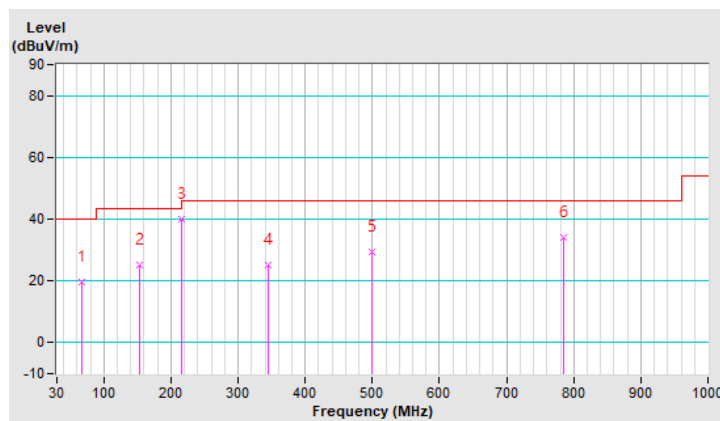
Below 1GHz worst-case data:

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	67.96	19.7 QP	40.0	-20.3	2.00 H	126	34.9	-15.2
2	153.71	25.0 QP	43.5	-18.5	2.00 H	266	38.0	-13.0
3	215.57	40.0 QP	43.5	-3.5	1.01 H	18	56.7	-16.7
4	344.90	25.1 QP	46.0	-20.9	1.01 H	137	36.7	-11.6
5	499.54	29.6 QP	46.0	-16.4	1.51 H	248	37.4	-7.8
6	784.91	34.0 QP	46.0	-12.0	1.51 H	281	36.5	-2.5

Remarks:

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



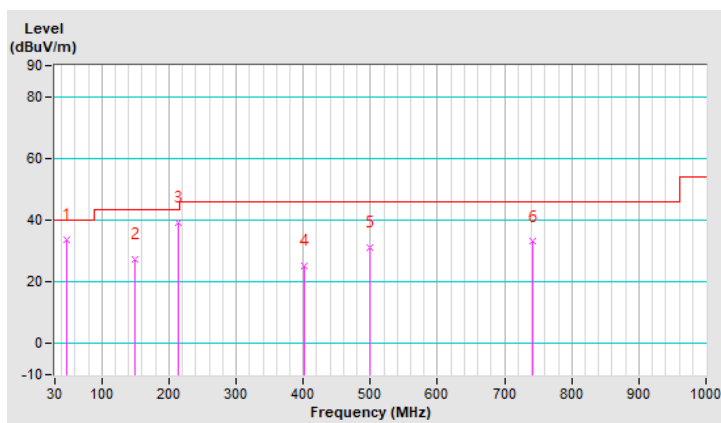
RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.28	33.7 QP	40.0	-6.3	1.01 V	184	46.7	-13.0
2	149.49	27.4 QP	43.5	-16.1	1.01 V	186	40.5	-13.1
3	214.16	39.3 QP	43.5	-4.2	1.01 V	44	56.0	-16.7
4	401.13	25.3 QP	46.0	-20.7	1.01 V	229	35.4	-10.1
5	499.54	31.0 QP	46.0	-15.0	1.01 V	183	38.8	-7.8
6	742.74	33.0 QP	46.0	-13.0	1.01 V	147	36.1	-3.1

Remarks:

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



Mode B

Above 1GHz data:

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	58.3 PK	74.0	-15.7	1.01 H	214	55.8	2.5
2	5150.00	45.7 AV	54.0	-8.3	1.01 H	214	43.2	2.5
3	*5180.00	108.8 PK			1.01 H	214	68.5	40.3
4	*5180.00	96.2 AV			1.01 H	214	55.9	40.3
5	#10360.00	56.2 PK	68.2	-12.0	1.29 H	272	47.7	8.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.51 V	207	63.5	2.5
2	5150.00	53.7 AV	54.0	-0.3	1.51 V	207	51.2	2.5
3	*5180.00	123.4 PK			1.51 V	207	83.1	40.3
4	*5180.00	110.7 AV			1.51 V	207	70.4	40.3
5	#10360.00	57.0 PK	68.2	-11.2	1.67 V	239	48.5	8.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	108.4 PK			1.01 H	205	68.4	40.0
2	*5320.00	96.4 AV			1.01 H	205	56.4	40.0
3	5350.00	58.2 PK	74.0	-15.8	1.01 H	205	56.1	2.1
4	5350.00	46.1 AV	54.0	-7.9	1.01 H	205	44.0	2.1
5	10640.00	56.4 PK	74.0	-17.6	1.32 H	277	47.8	8.6
6	10640.00	43.1 AV	54.0	-10.9	1.32 H	277	34.5	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	*5320.00	123.4 PK			1.37 V	203	83.4	40.0
2	*5320.00	111.2 AV			1.37 V	203	71.2	40.0
3	5350.00	67.9 PK	74.0	-6.1	1.37 V	203	65.8	2.1
4	5350.00	53.8 AV	54.0	-0.2	1.37 V	203	51.7	2.1
5	10640.00	57.1 PK	74.0	-16.9	1.75 V	251	48.5	8.6
6	10640.00	44.4 AV	54.0	-9.6	1.75 V	251	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.

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	57.8 PK	74.0	-16.2	1.32 H	206	55.7	2.1
2	5460.00	45.0 AV	54.0	-9.0	1.32 H	206	42.9	2.1
3	#5470.00	58.7 PK	68.2	-9.5	1.32 H	206	56.6	2.1
4	*5500.00	107.6 PK			1.32 H	206	67.5	40.1
5	*5500.00	95.5 AV			1.32 H	206	55.4	40.1
6	11000.00	56.5 PK	74.0	-17.5	1.32 H	268	47.8	8.7
7	11000.00	43.5 AV	54.0	-10.5	1.32 H	268	34.8	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	5460.00	66.3 PK	74.0	-7.7	1.46 V	200	64.2	2.1
2	5460.00	51.6 AV	54.0	-2.4	1.46 V	200	49.5	2.1
3	#5470.00	68.0 PK	68.2	-0.2	1.46 V	200	65.9	2.1
4	*5500.00	122.6 PK			1.46 V	200	82.5	40.1
5	*5500.00	110.2 AV			1.46 V	200	70.1	40.1
6	11000.00	57.3 PK	74.0	-16.7	1.77 V	258	48.6	8.7
7	11000.00	44.2 AV	54.0	-9.8	1.77 V	258	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 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	105.9 PK			1.10 H	338	64.5	41.4
2	*5700.00	92.8 AV			1.10 H	338	51.4	41.4
3	#5725.00	59.4 PK	68.2	-8.8	1.10 H	338	55.7	3.7
4	11400.00	57.5 PK	74.0	-16.5	1.32 H	275	48.0	9.5
5	11400.00	44.4 AV	54.0	-9.6	1.32 H	275	34.9	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	121.3 PK			1.73 V	197	79.9	41.4
2	*5700.00	108.3 AV			1.73 V	197	66.9	41.4
3	#5725.00	68.0 PK	68.2	-0.2	1.73 V	197	64.3	3.7
4	11400.00	58.1 PK	74.0	-15.9	1.73 V	258	48.6	9.5
5	11400.00	45.1 AV	54.0	-8.9	1.73 V	258	35.6	9.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	58.8 PK	74.0	-15.2	1.08 H	214	56.3	2.5
2	5150.00	46.1 AV	54.0	-7.9	1.08 H	214	43.6	2.5
3	*5190.00	104.1 PK			1.08 H	214	63.8	40.3
4	*5190.00	91.5 AV			1.08 H	214	51.2	40.3
5	#10380.00	56.3 PK	68.2	-11.9	1.35 H	268	47.8	8.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	1.52 V	208	63.8	2.5
2	5150.00	53.9 AV	54.0	-0.1	1.52 V	208	51.4	2.5
3	*5190.00	118.7 PK			1.52 V	208	78.4	40.3
4	*5190.00	105.8 AV			1.52 V	208	65.5	40.3
5	#10380.00	57.0 PK	68.2	-11.2	1.72 V	254	48.5	8.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	103.9 PK			1.43 H	206	63.9	40.0
2	*5310.00	91.2 AV			1.43 H	206	51.2	40.0
3	5350.00	58.8 PK	74.0	-15.2	1.43 H	206	56.7	2.1
4	5350.00	45.8 AV	54.0	-8.2	1.43 H	206	43.7	2.1
5	10620.00	56.3 PK	74.0	-17.7	1.38 H	264	47.6	8.7
6	10620.00	43.2 AV	54.0	-10.8	1.38 H	264	34.5	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	*5310.00	118.6 PK			1.42 V	203	78.6	40.0
2	*5310.00	105.2 AV			1.42 V	203	65.2	40.0
3	5350.00	68.5 PK	74.0	-5.5	1.42 V	203	66.4	2.1
4	5350.00	53.7 AV	54.0	-0.3	1.42 V	203	51.6	2.1
5	10620.00	57.2 PK	74.0	-16.8	1.59 V	249	48.5	8.7
6	10620.00	43.9 AV	54.0	-10.1	1.59 V	249	35.2	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.

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	58.1 PK	74.0	-15.9	1.26 H	207	56.0	2.1
2	5460.00	45.7 AV	54.0	-8.3	1.26 H	207	43.6	2.1
3	#5470.00	58.3 PK	68.2	-9.9	1.26 H	207	56.2	2.1
4	*5510.00	105.5 PK			1.26 H	207	65.2	40.3
5	*5510.00	91.9 AV			1.26 H	207	51.6	40.3
6	11020.00	56.5 PK	74.0	-17.5	1.35 H	275	47.8	8.7
7	11020.00	43.3 AV	54.0	-10.7	1.35 H	275	34.6	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	5460.00	65.2 PK	74.0	-8.8	1.50 V	197	63.1	2.1
2	5460.00	52.1 AV	54.0	-1.9	1.50 V	197	50.0	2.1
3	#5470.00	67.7 PK	68.2	-0.5	1.50 V	197	65.6	2.1
4	*5510.00	120.4 PK			1.50 V	197	80.1	40.3
5	*5510.00	106.2 AV			1.50 V	197	65.9	40.3
6	11020.00	57.1 PK	74.0	-16.9	1.55 V	245	48.4	8.7
7	11020.00	44.0 AV	54.0	-10.0	1.55 V	245	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 (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	104.4 PK			1.03 H	337	63.0	41.4
2	*5670.00	92.1 AV			1.03 H	337	50.7	41.4
3	#5725.00	46.6 PK	68.2	-21.6	1.03 H	337	42.9	3.7
4	11340.00	57.0 PK	74.0	-17.0	1.28 H	269	47.5	9.5
5	11340.00	44.0 AV	54.0	-10.0	1.28 H	269	34.5	9.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	120.0 PK			1.34 V	198	78.6	41.4
2	*5670.00	106.8 AV			1.34 V	198	65.4	41.4
3	#5725.00	67.9 PK	68.2	-0.3	1.34 V	198	64.2	3.7
4	11340.00	57.9 PK	74.0	-16.1	1.59 V	253	48.4	9.5
5	11340.00	44.7 AV	54.0	-9.3	1.59 V	253	35.2	9.5

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	59.3 PK	74.0	-14.7	1.01 H	214	56.8	2.5
2	5150.00	46.8 AV	54.0	-7.2	1.01 H	214	44.3	2.5
3	*5210.00	103.1 PK			1.01 H	214	62.9	40.2
4	*5210.00	89.9 AV			1.01 H	214	49.7	40.2
5	5350.00	58.5 PK	74.0	-15.5	1.01 H	214	56.4	2.1
6	5350.00	44.6 AV	54.0	-9.4	1.01 H	214	42.5	2.1
7	#10420.00	56.2 PK	68.2	-12.0	1.25 H	269	47.8	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.60 V	205	64.1	2.5
2	5150.00	53.8 AV	54.0	-0.2	1.60 V	205	51.3	2.5
3	*5210.00	116.7 PK			1.60 V	205	76.5	40.2
4	*5210.00	103.6 AV			1.60 V	205	63.4	40.2
5	5350.00	65.3 PK	74.0	-8.7	1.60 V	205	63.2	2.1
6	5350.00	52.6 AV	54.0	-1.4	1.60 V	205	50.5	2.1
7	#10420.00	56.9 PK	68.2	-11.3	1.52 V	257	48.5	8.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": 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	58.3 PK	74.0	-15.7	1.01 H	206	55.8	2.5
2	5150.00	44.9 AV	54.0	-9.1	1.01 H	206	42.4	2.5
3	*5290.00	101.5 PK			1.01 H	206	61.5	40.0
4	*5290.00	89.3 AV			1.01 H	206	49.3	40.0
5	5350.00	58.6 PK	74.0	-15.4	1.01 H	206	56.5	2.1
6	5350.00	46.0 AV	54.0	-8.0	1.01 H	206	43.9	2.1
7	#10580.00	56.3 PK	68.2	-11.9	1.52 H	265	47.6	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	5150.00	59.0 PK	74.0	-15.0	1.43 V	204	56.5	2.5
2	5150.00	49.0 AV	54.0	-5.0	1.43 V	204	46.5	2.5
3	*5290.00	115.4 PK			1.43 V	204	75.4	40.0
4	*5290.00	101.8 AV			1.43 V	204	61.8	40.0
5	5350.00	68.5 PK	74.0	-5.5	1.43 V	204	66.4	2.1
6	5350.00	53.9 AV	54.0	-0.1	1.43 V	204	51.8	2.1
7	#10580.00	57.0 PK	68.2	-11.2	1.49 V	262	48.3	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 (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	1.03 H	330	56.0	2.1
2	5460.00	44.5 AV	54.0	-9.5	1.03 H	330	42.4	2.1
3	#5470.00	58.3 PK	68.2	-9.9	1.03 H	330	56.2	2.1
4	*5530.00	101.3 PK			1.03 H	330	60.9	40.4
5	*5530.00	89.2 AV			1.03 H	330	48.8	40.4
6	#5725.00	58.8 PK	68.2	-9.4	1.03 H	330	55.1	3.7
7	11060.00	56.3 PK	74.0	-17.7	1.33 H	259	47.5	8.8
8	11060.00	43.2 AV	54.0	-10.8	1.33 H	259	34.4	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	5460.00	66.6 PK	74.0	-7.4	1.52 V	201	64.5	2.1
2	5460.00	50.7 AV	54.0	-3.3	1.52 V	201	48.6	2.1
3	#5470.00	68.0 PK	68.2	-0.2	1.52 V	201	65.9	2.1
4	*5530.00	116.0 PK			1.52 V	201	75.6	40.4
5	*5530.00	101.7 AV			1.52 V	201	61.3	40.4
6	#5725.00	58.9 PK	68.2	-9.3	1.52 V	201	55.2	3.7
7	11060.00	57.0 PK	74.0	-17.0	1.55 V	254	48.2	8.8
8	11060.00	43.9 AV	54.0	-10.1	1.55 V	254	35.1	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 (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	58.9 PK	74.0	-15.1	1.00 H	206	56.4	2.5
2	5150.00	44.9 AV	54.0	-9.1	1.00 H	206	42.4	2.5
3	*5250.00	99.9 PK			1.00 H	206	59.8	40.1
4	*5250.00	87.3 AV			1.00 H	206	47.2	40.1
5	5350.00	61.6 PK	74.0	-12.4	1.00 H	206	59.5	2.1
6	5350.00	46.3 AV	54.0	-7.7	1.00 H	206	44.2	2.1
7	#10500.00	56.0 PK	68.2	-12.2	1.32 H	264	47.6	8.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.3 PK	74.0	-3.7	1.58 V	204	67.8	2.5
2	5150.00	51.0 AV	54.0	-3.0	1.58 V	204	48.5	2.5
3	*5250.00	112.7 PK			1.58 V	204	72.6	40.1
4	*5250.00	99.1 AV			1.58 V	204	59.0	40.1
5	5350.00	71.9 PK	74.0	-2.1	1.58 V	204	69.8	2.1
6	5350.00	53.8 AV	54.0	-0.2	1.58 V	204	51.7	2.1
7	#10500.00	56.6 PK	68.2	-11.6	1.52 V	249	48.2	8.4

Remarks:

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

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 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESR3	102783	Dec. 20, 2021	Dec. 19, 2022
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2021	Sep. 03, 2022
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Feb. 17, 2022	Feb. 16, 2023
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Sep. 17, 2021	Sep. 16, 2022
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 2. (Conduction 2)
 3. The VCCI Site Registration No. is C-12047.

4.2.3 Test Procedures

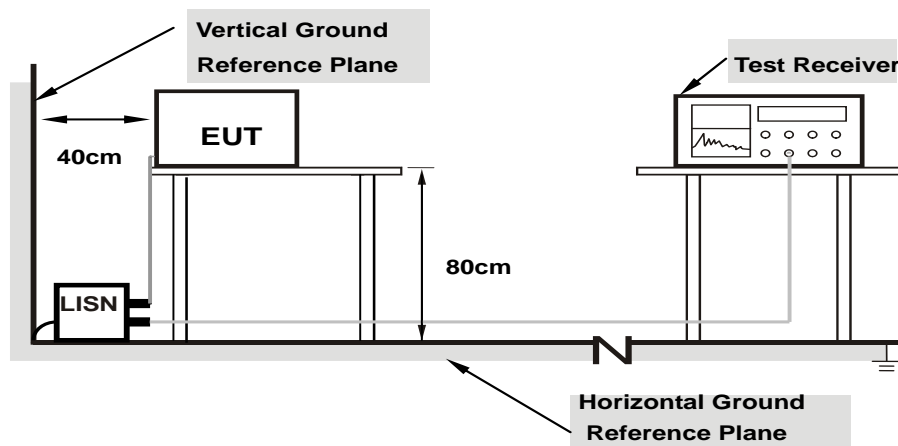
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

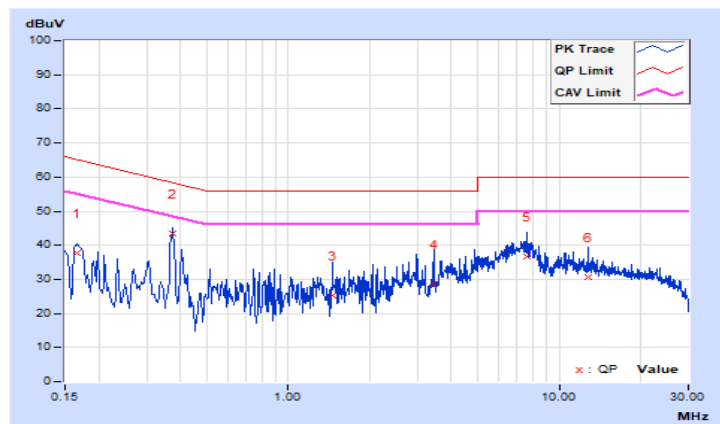
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66% RH
Tested by	Titan Hsu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16579	10.14	27.64	13.16	37.78	23.30	65.17	55.17	-27.39	-31.87
2	0.37400	10.23	33.07	30.26	43.30	40.49	58.41	48.41	-15.11	-7.92
3	1.46200	10.33	15.07	6.84	25.40	17.17	56.00	46.00	-30.60	-28.83
4	3.45000	10.39	18.33	10.13	28.72	20.52	56.00	46.00	-27.28	-25.48
5	7.57400	10.44	26.15	19.37	36.59	29.81	60.00	50.00	-23.41	-20.19
6	12.81000	10.49	20.14	13.63	30.63	24.12	60.00	50.00	-29.37	-25.88

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

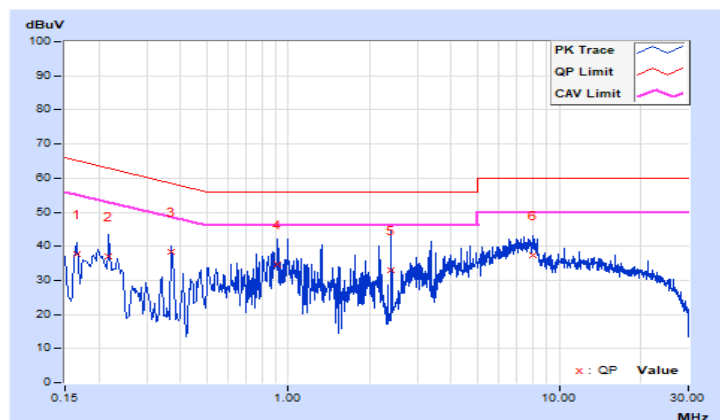


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66% RH
Tested by	Titan Hsu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	10.16	27.71	18.52	37.87	28.68	65.16	55.16	-27.29	-26.48
2	0.21800	10.20	26.74	13.03	36.94	23.23	62.89	52.89	-25.95	-29.66
3	0.37000	10.25	27.99	21.60	38.24	31.85	58.50	48.50	-20.26	-16.65
4	0.91400	10.30	24.23	15.73	34.53	26.03	56.00	46.00	-21.47	-19.97
5	2.38600	10.37	22.56	1.43	32.93	11.80	56.00	46.00	-23.07	-34.20
6	8.05000	10.47	26.78	19.73	37.25	30.20	60.00	50.00	-22.75	-19.80

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125 mW (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	250 mW (24 dBm)
U-NII-2A	√	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-2C	√	250 mW (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 $N_{ANT} \leq 4$;

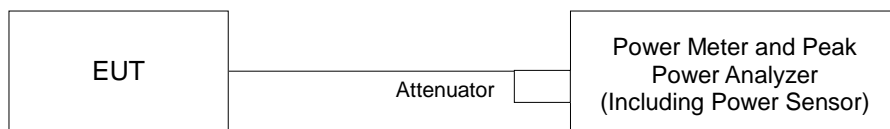
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

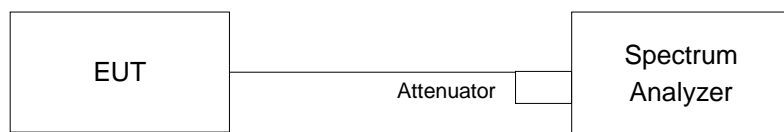
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth and power output of transmission above 5.725 GHz where the EBW crosses 5.725 GHz



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

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 transmission above 5.725 GHz where the EBW crosses 5.725 GHz

For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II E 2 e) method SA-2A.

For 26dB Bandwidth

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating 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 Results

Power Output:

CDD Mode

Mode A

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	21.67	21.83	299.298	24.76	30	Pass
40	5200	25.68	26.14	780.978	28.93	30	Pass
48	5240	26.56	26.81	932.631	29.70	30	Pass
52	5260	20.68	20.72	234.982	23.71	24	Pass
60	5300	20.71	20.85	239.379	23.79	24	Pass
64	5320	20.72	20.82	238.813	23.78	24	Pass
100	5500	20.69	20.77	236.618	23.74	24	Pass
116	5580	20.95	20.85	246.07	23.91	24	Pass
140	5700	18.89	18.82	153.654	21.87	24	Pass
144	5720 (U-NII-2C)	19.75	19.51	183.737	22.64	23.10	Pass
144	5720 (U-NII-3)	13.58	13.35	44.431	16.48	30	Pass
149	5745	26.95	26.87	981.857	29.92	30	Pass
157	5785	26.93	26.91	984.082	29.93	30	Pass
165	5825	26.85	26.82	965.012	29.85	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log(22.29) = 24.48 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(22.20) = 24.46 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(22.25) = 24.47 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(22.16) = 24.46 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(22.30) = 24.48 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(21.73) = 24.37 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log(16.21) = 23.10 \text{ dBm} < 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log(22.18) = 24.46 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(22.11) = 24.45 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(22.26) = 24.48 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(22.22) = 24.47 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(22.16) = 24.46 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(21.66) = 24.36 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log(16.27) = 23.11 \text{ dBm} < 24 \text{ dBm}$.

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	21.21	21.45	271.766	24.34	30	Pass
40	5200	25.23	25.45	684.178	28.35	30	Pass
48	5240	26.65	26.91	953.289	29.79	30	Pass
52	5260	20.88	20.94	246.627	23.92	24	Pass
60	5300	20.91	20.96	248.049	23.95	24	Pass
64	5320	20.43	21.11	239.53	23.79	24	Pass
100	5500	20.09	20.14	205.37	23.13	24	Pass
116	5580	20.77	20.83	240.459	23.81	24	Pass
140	5700	18.72	18.55	146.088	21.65	24	Pass
144	5720 (U-NII-2C)	19.37	19.65	178.754	22.52	23.07	Pass
144	5720 (U-NII-3)	14.05	14.35	52.637	17.21	30	Pass
149	5745	26.95	26.86	980.739	29.92	30	Pass
157	5785	26.92	26.83	973.987	29.89	30	Pass
165	5825	26.87	26.82	967.247	29.86	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (23.36) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (23.34) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (23.40) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (23.40) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (23.21) = 24.66 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (21.57) = 24.34 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log (18.43) = 23.66 \text{ dBm} < 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (23.34) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (23.32) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (23.39) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (23.55) = 24.72 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (23.32) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (21.52) = 24.33 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log (16.11) = 23.07 \text{ dBm} < 24 \text{ dBm}$.

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	18.95	18.72	152.997	21.85	30	Pass
46	5230	24.58	24.51	569.566	27.56	30	Pass
54	5270	20.92	20.97	248.621	23.96	24	Pass
62	5310	18.19	18.23	132.445	21.22	24	Pass
102	5510	18.90	19.45	165.73	22.19	24	Pass
110	5550	20.97	20.67	241.707	23.83	24	Pass
134	5670	19.84	19.61	187.794	22.74	24	Pass
142	5710 (U-NII-2C)	20.06	19.75	200.154	23.01	24	Pass
142	5710 (U-NII-3)	10.11	9.81	20.27	13.07	30	Pass
151	5755	26.55	26.17	865.856	29.37	30	Pass
159	5795	26.87	26.62	945.605	29.76	30	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0

1. $11 \text{ dBm} + 10\log(43.46) = 27.38 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(46.82) = 27.70 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(46.51) = 27.68 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(43.18) = 27.35 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(42.90) = 27.32 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(36.98) = 26.68 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log(43.44) = 27.38 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(47.28) = 27.75 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(45.58) = 27.59 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(42.98) = 27.33 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(43.58) = 27.39 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(37.03) = 26.69 \text{ dBm} > 24 \text{ dBm}$.

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	20.08	20.09	203.953	23.10	30	Pass
58	5290	18.95	19.17	161.127	22.07	24	Pass
106	5530	19.52	19.01	169.152	22.28	24	Pass
122	5610	20.95	20.62	239.797	23.80	24	Pass
138	5690 (U-NII-2C)	20.36	20.30	220.365	23.43	24	Pass
138	5690 (U-NII-3)	6.48	6.41	9.008	9.55	30	Pass
155	5775	22.72	23.02	387.515	25.88	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (90.93) = 30.59 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (86.44) = 30.37 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (83.92) = 30.24 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (76.52) = 29.84 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (86.58) = 30.37 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (84.24) = 30.26 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (83.73) = 30.23 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (77.23) = 29.88 \text{ dBm} > 24 \text{ dBm}$.

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 (U-NII-1 Band)	14.78	14.77	66.91	18.25	30	Pass
50	5250 (U-NII-2A Band)	15.89	15.91	86.694	19.38	24	Pass
114	5570	17.42	16.80	103.071	20.13	24	Pass

Note:

For U-NII-2A:

Chain 0

1. $11 \text{ dBm} + 10\log (83.94) = 30.24 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (168.29) = 33.26 \text{ dBm} > 24 \text{ dBm}$.

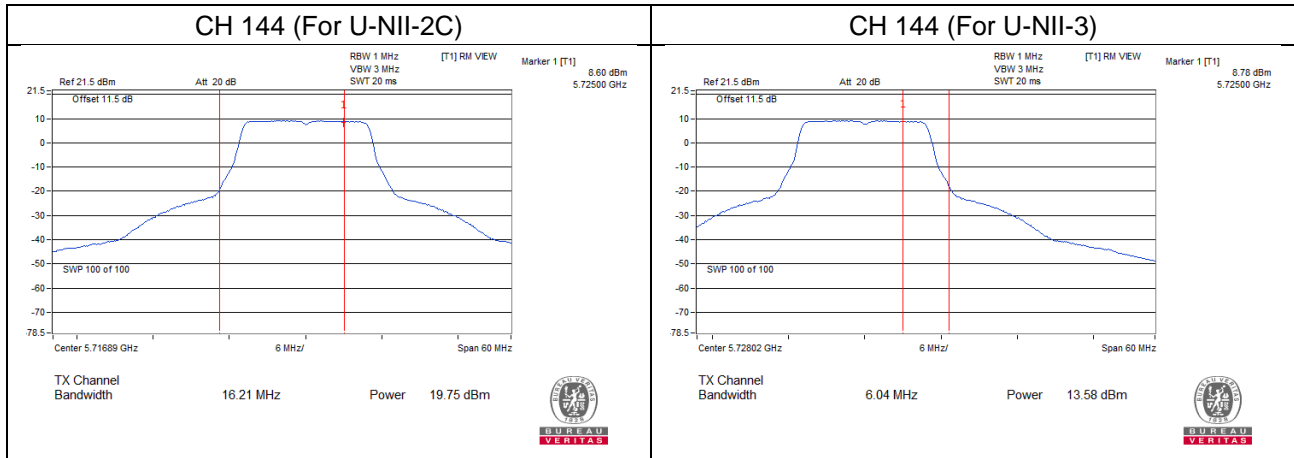
Chain 1

1. $11 \text{ dBm} + 10\log (84.27) = 30.26 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (168.07) = 33.25 \text{ dBm} > 24 \text{ dBm}$.

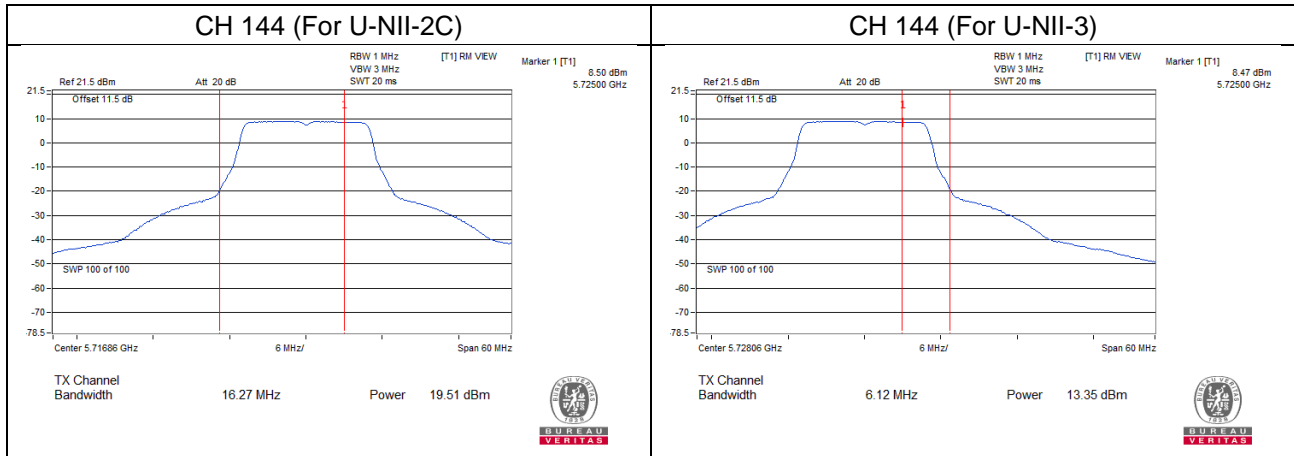
Straddle channel power plots:

802.11a

Chain 0

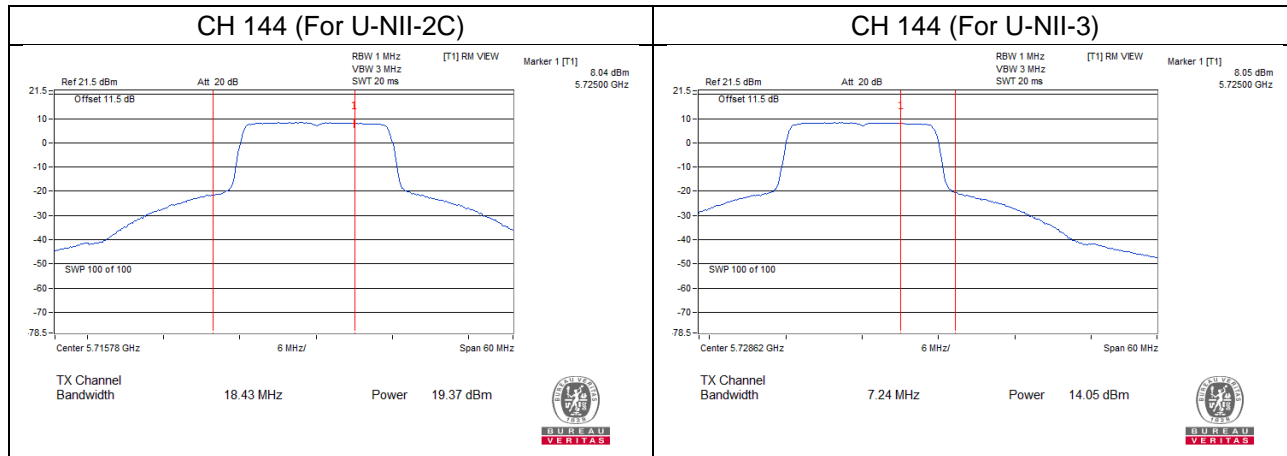


Chain 1

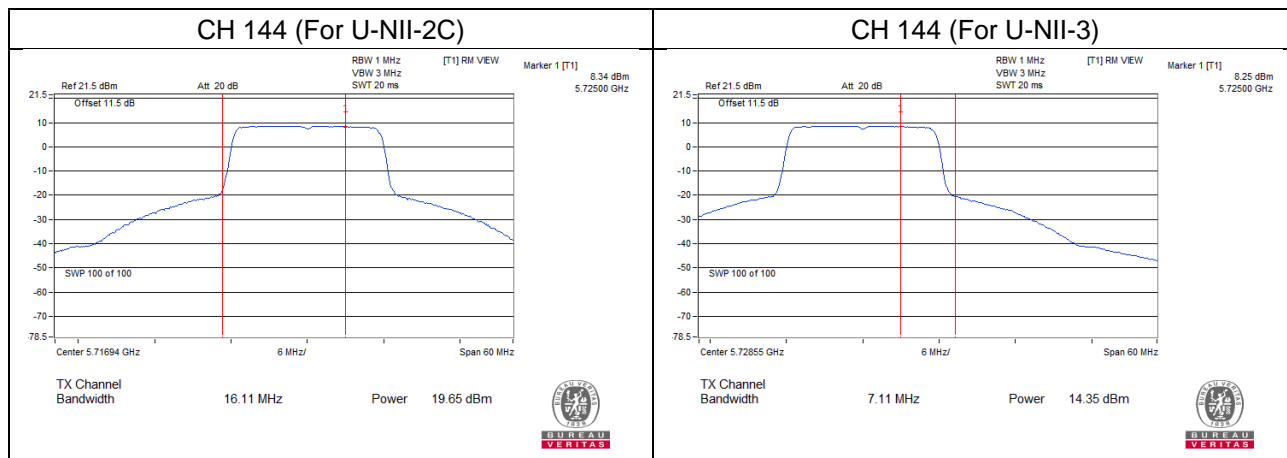


802.11ax (HE20)

Chain 0

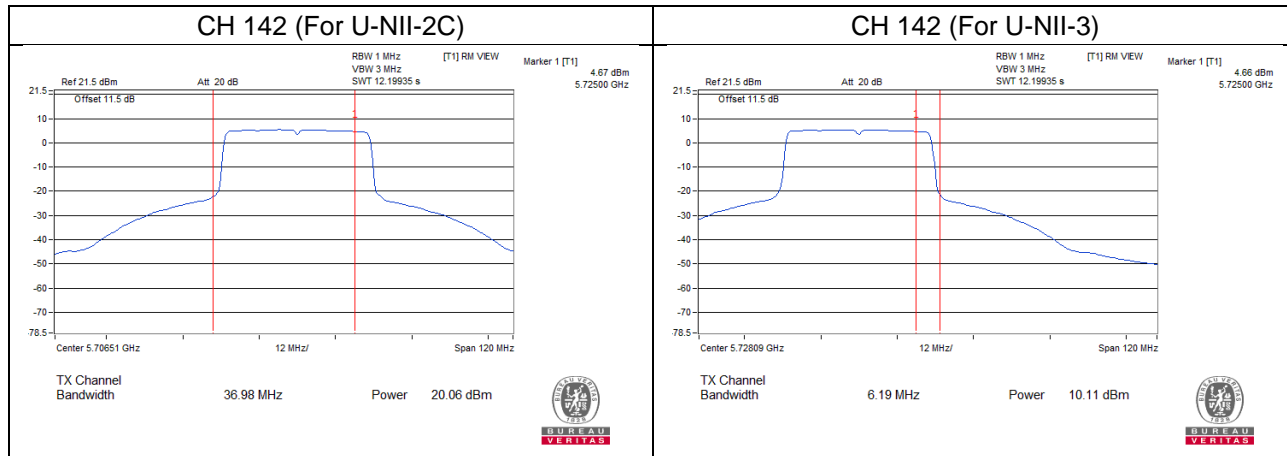


Chain 1

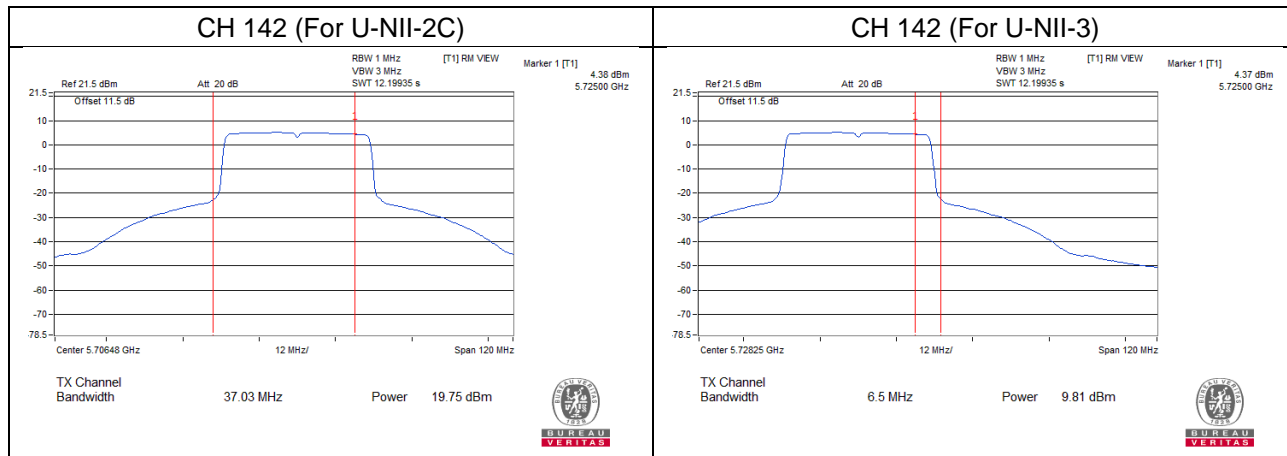


802.11ax (HE40)

Chain 0

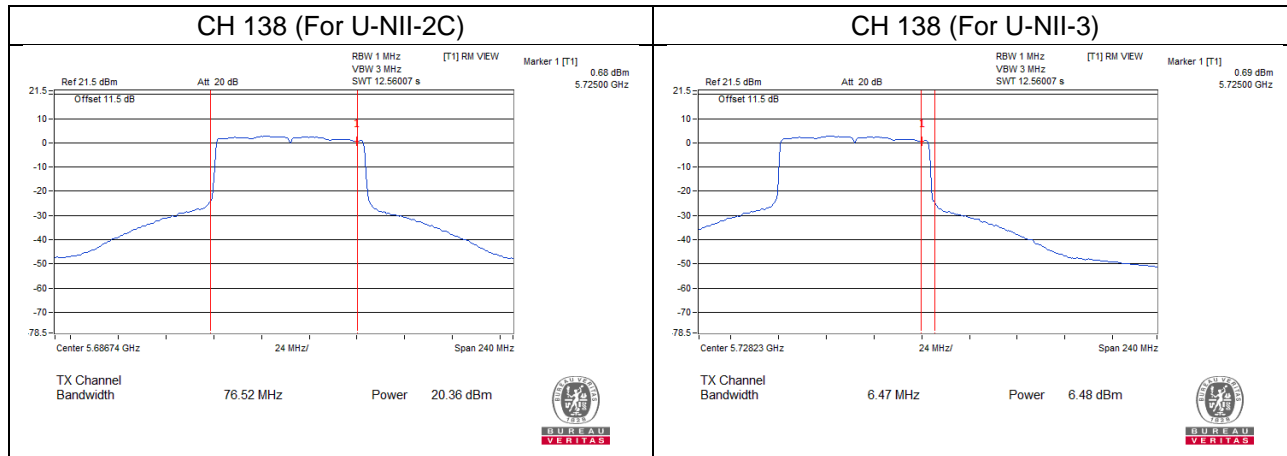


Chain 1

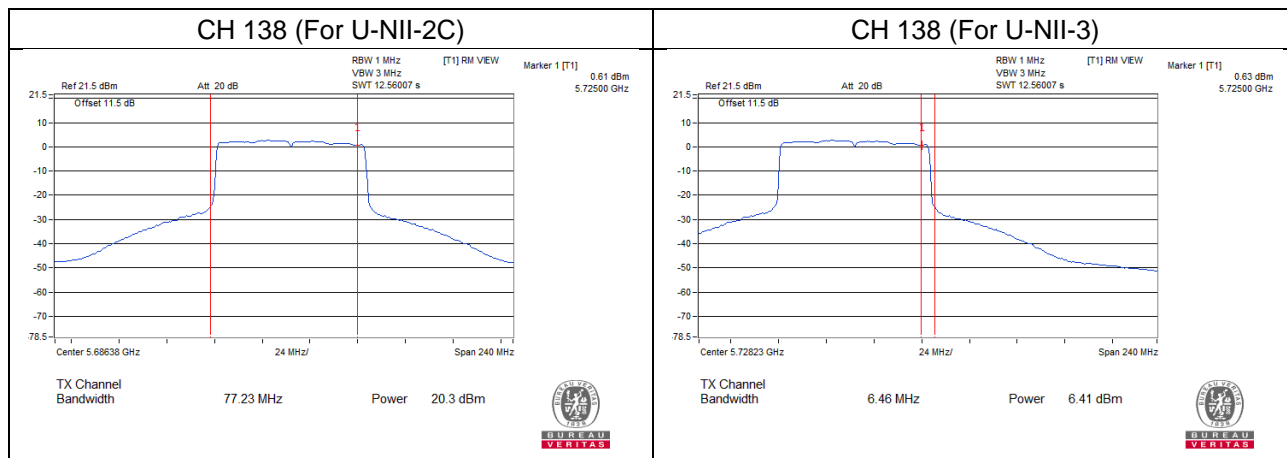


802.11ax (HE80)

Chain 0



Chain 1



Mode B

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	21.58	21.45	283.517	24.53	30	Pass
64	5320	20.61	21.24	248.125	23.95	24	Pass
100	5500	20.94	20.54	237.405	23.75	24	Pass
140	5700	19.20	18.82	159.384	22.02	24	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (28.58) = 25.56 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (27.50) = 25.39 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (21.78) = 24.38 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (26.91) = 25.30 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (27.45) = 25.39 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (21.87) = 24.40 \text{ dBm} > 24 \text{ dBm}$.

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	19.80	19.48	184.215	22.65	30	Pass
62	5310	18.78	18.34	143.743	21.58	24	Pass
102	5510	19.73	19.93	192.373	22.84	24	Pass
134	5670	20.51	19.99	212.231	23.27	24	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (55.80) = 28.47 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (48.64) = 27.87 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (43.17) = 27.35 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (56.79) = 28.54 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (47.22) = 27.74 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (43.54) = 27.39 \text{ dBm} > 24 \text{ dBm}$.

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	21.32	20.88	257.981	24.12	30	Pass
58	5290	19.56	19.58	181.147	22.58	24	Pass
106	5530	19.73	19.20	177.149	22.48	24	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (93.65) = 30.72 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (94.37) = 30.75 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (97.54) = 30.89 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (87.97) = 30.44 \text{ dBm} > 24 \text{ dBm}$.

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 (U-NII-1 Band)	16.31	16.30	95.167	19.78	30	Pass
50	5250 (U-NII-2A Band)	17.43	17.42	123.165	20.90	24	Pass

Note:

For U-NII-2A:

Chain 0

1. $11 \text{ dBm} + 10\log (136.73) = 32.36 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (136.52) = 32.35 \text{ dBm} > 24 \text{ dBm}$.

Beamforming Mode

Mode A

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	21.21	21.45	271.766	24.34	30	Pass
40	5200	25.23	25.45	684.178	28.35	30	Pass
48	5240	26.65	26.91	953.289	29.79	30	Pass
52	5260	20.88	20.94	246.627	23.92	24	Pass
60	5300	20.91	20.96	248.049	23.95	24	Pass
64	5320	20.43	21.11	239.53	23.79	24	Pass
100	5500	20.09	20.14	205.37	23.13	24	Pass
116	5580	20.77	20.83	240.459	23.81	24	Pass
140	5700	18.72	18.55	146.088	21.65	24	Pass
144	5720 (U-NII-2C)	19.37	19.65	178.754	22.52	23.07	Pass
144	5720 (U-NII-3)	14.05	14.35	52.637	17.21	30	Pass
149	5745	26.95	26.86	980.739	29.92	30	Pass
157	5785	26.92	26.83	973.987	29.89	30	Pass
165	5825	26.87	26.82	967.247	29.86	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log(23.36) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(23.34) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(23.40) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(23.40) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(23.21) = 24.66 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(21.57) = 24.34 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log(18.43) = 23.66 \text{ dBm} < 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log(23.34) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log(23.32) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log(23.39) = 24.69 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log(23.55) = 24.72 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log(23.32) = 24.68 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log(21.52) = 24.33 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log(16.11) = 23.07 \text{ dBm} < 24 \text{ dBm}$.

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	18.95	18.72	152.997	21.85	30	Pass
46	5230	24.58	24.51	569.566	27.56	30	Pass
54	5270	20.92	20.97	248.621	23.96	24	Pass
62	5310	18.19	18.23	132.445	21.22	24	Pass
102	5510	18.90	19.45	165.73	22.19	24	Pass
110	5550	20.97	20.67	241.707	23.83	24	Pass
134	5670	19.84	19.61	187.794	22.74	24	Pass
142	5710 (U-NII-2C)	20.06	19.75	200.154	23.01	24	Pass
142	5710 (U-NII-3)	10.11	9.81	20.27	13.07	30	Pass
151	5755	26.55	26.17	865.856	29.37	30	Pass
159	5795	26.87	26.62	945.605	29.76	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (43.46) = 27.38 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (46.82) = 27.70 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (46.51) = 27.68 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (43.18) = 27.35 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (42.90) = 27.32 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (36.98) = 26.68 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (43.44) = 27.38 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (47.28) = 27.75 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (45.58) = 27.59 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (42.98) = 27.33 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (43.58) = 27.39 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (37.03) = 26.69 \text{ dBm} > 24 \text{ dBm}$.

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	20.08	20.09	203.953	23.10	30	Pass
58	5290	18.95	19.17	161.127	22.07	24	Pass
106	5530	19.52	19.01	169.152	22.28	24	Pass
122	5610	20.95	20.62	239.797	23.80	24	Pass
138	5690 (U-NII-2C)	20.36	20.30	220.365	23.43	24	Pass
138	5690 (U-NII-3)	6.48	6.41	9.008	9.55	30	Pass
155	5775	22.72	23.02	387.515	25.88	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11 \text{ dBm} + 10\log (90.93) = 30.59 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (86.44) = 30.37 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (83.92) = 30.24 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (76.52) = 29.84 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (86.58) = 30.37 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (84.24) = 30.26 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (83.73) = 30.23 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (77.23) = 29.88 \text{ dBm} > 24 \text{ dBm}$.

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 (U-NII-1 Band)	14.78	14.77	66.91	18.25	30	Pass
50	5250 (U-NII-2A Band)	15.89	15.91	86.694	19.38	24	Pass
114	5570	17.42	16.80	103.071	20.13	24	Pass

Note:

For U-NII-2A:

Chain 0

1. $11 \text{ dBm} + 10\log (83.94) = 30.24 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (168.29) = 33.26 \text{ dBm} > 24 \text{ dBm}$.

Chain 1

1. $11 \text{ dBm} + 10\log (84.27) = 30.26 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (168.07) = 33.25 \text{ dBm} > 24 \text{ dBm}$.

26 dB Bandwidth:
Mode A
802.11a

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.29	22.18
60	5300	22.20	22.11
64	5320	22.25	22.26
100	5500	22.16	22.22
116	5580	22.30	22.16
140	5700	21.73	21.66
144	5720 (U-NII-2C)	16.21	16.27

802.11ax (HE20)

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	23.36	23.34
60	5300	23.34	23.32
64	5320	23.40	23.39
100	5500	23.40	23.55
116	5580	23.21	23.32
140	5700	21.57	21.52
144	5720 (U-NII-2C)	18.43	16.11

802.11ax (HE40)

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	43.46	43.44
62	5310	46.82	47.28
102	5510	46.51	45.58
110	5550	43.18	42.98
134	5670	42.90	43.58
142	5710 (U-NII-2C)	36.98	37.03

802.11ax (HE80)

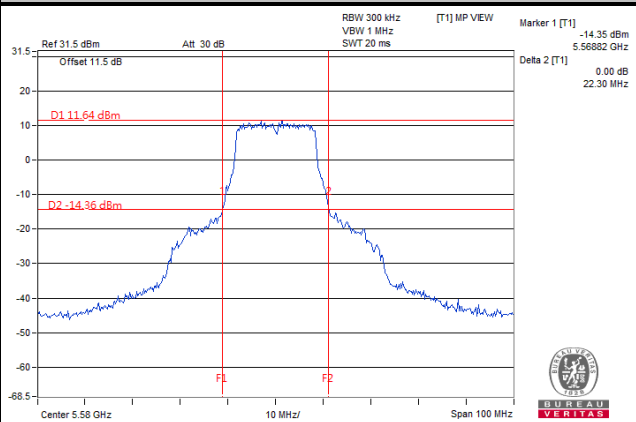
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	90.93	86.58
106	5530	86.44	84.24
122	5610	83.92	83.73
138	5690 (U-NII-2C)	76.52	77.23

802.11ax (HE160)

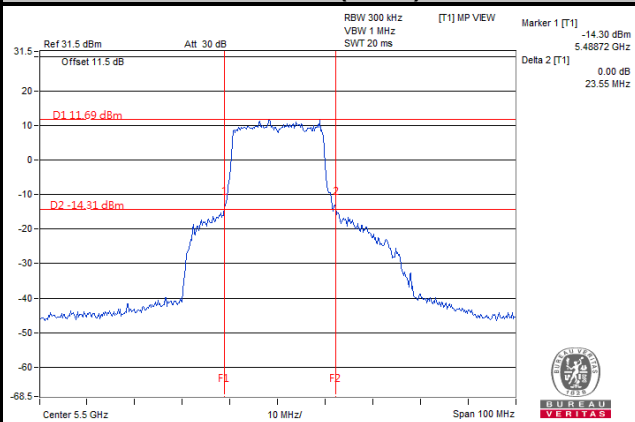
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	83.94	84.27
114	5570	168.29	168.07

Spectrum Plot of Worst Value

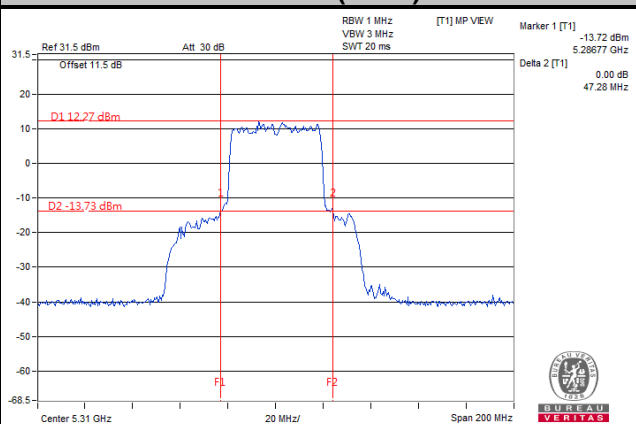
802.11a



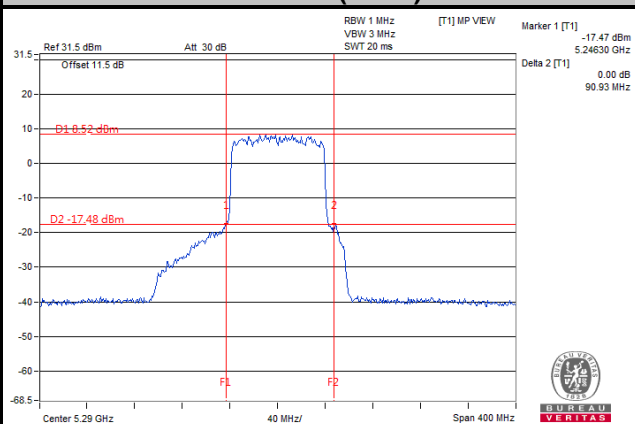
802.11ax (HE20)



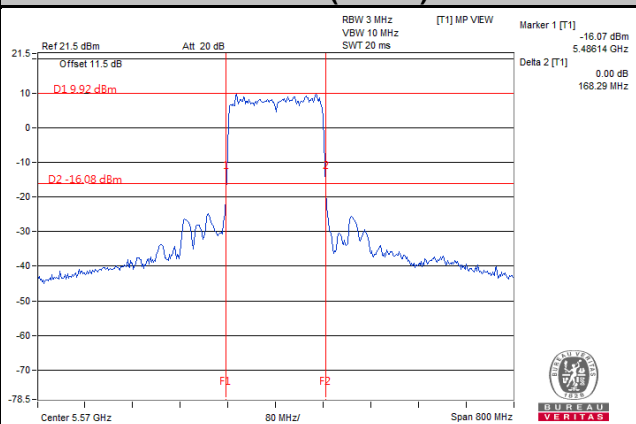
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



Mode B
802.11ax (HE20)

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	28.58	26.91
100	5500	27.50	27.45
140	5700	21.78	21.87

802.11ax (HE40)

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
62	5310	55.80	56.79
102	5510	48.64	47.22
134	5670	43.17	43.54

802.11ax (HE80)

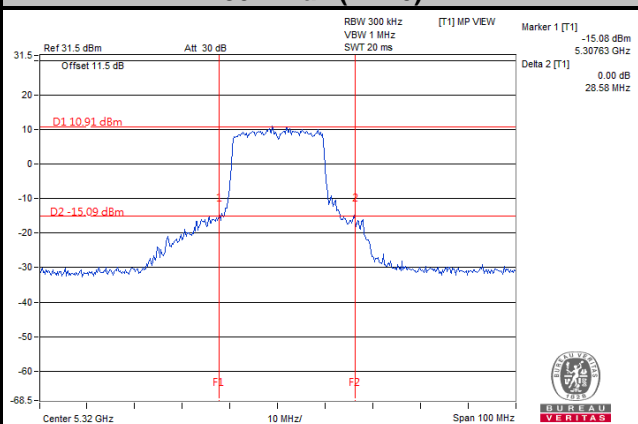
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	93.65	97.54
106	5530	94.37	87.97

802.11ax (HE160)

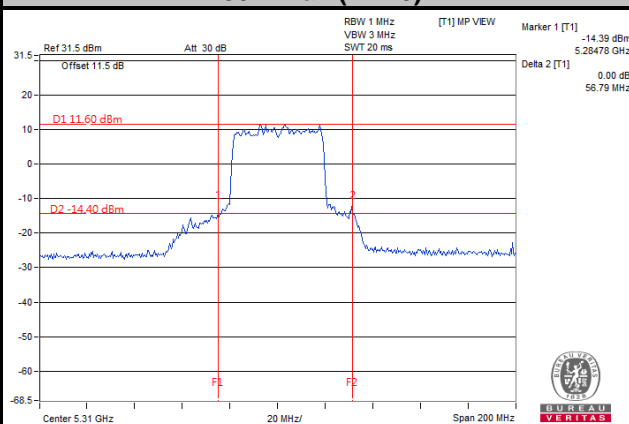
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	136.73	136.52

Spectrum Plot of Worst Value

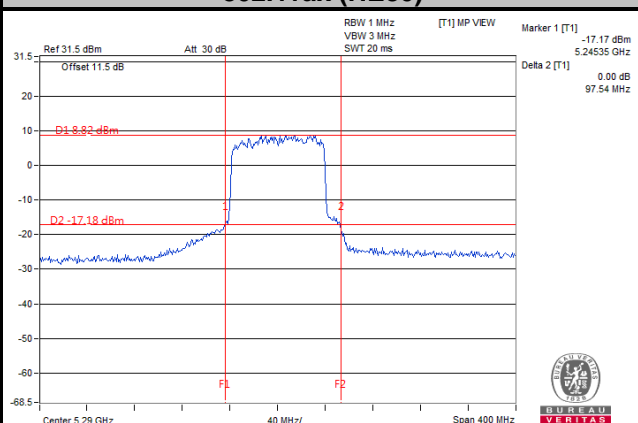
802.11ax (HE20)



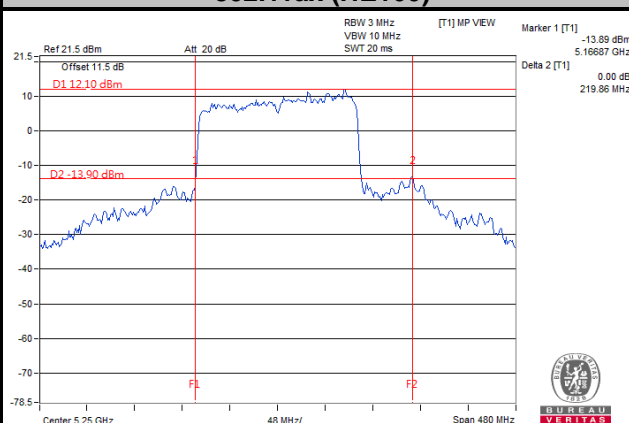
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Results

Mode A

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.16	17.28
40	5200	18.24	18.00
48	5240	18.72	18.96
52	5260	17.04	17.16
60	5300	17.28	17.04
64	5320	17.16	17.28
100	5500	17.28	17.04
116	5580	17.04	17.16
140	5700	16.92	16.92
144	5720 (U-NII-2C)	13.64	13.64
144	5720 (U-NII-3)	3.52	3.52
149	5745	17.82	17.82
157	5785	17.94	17.76
165	5825	18.54	18.00

802.11ax (HE20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.32	19.32
40	5200	29.88	29.16
48	5240	19.68	19.68
52	5260	19.32	19.32
60	5300	19.20	19.20
64	5320	19.20	19.20
100	5500	19.20	19.20
116	5580	19.20	19.20
140	5700	19.08	19.20
144	5720 (U-NII-2C)	14.72	14.60
144	5720 (U-NII-3)	4.60	4.60
149	5745	19.44	19.32
157	5785	19.44	19.50
165	5825	19.44	19.38

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.04	37.92
46	5230	39.60	39.60
54	5270	37.80	37.80
62	5310	37.92	37.92
102	5510	37.92	37.92
110	5550	37.92	37.92
134	5670	38.16	37.92
142	5710 (U-NII-2C)	34.20	34.20
142	5710 (U-NII-3)	3.72	3.96
151	5755	38.04	38.04
159	5795	38.04	37.92

802.11ax (HE80)

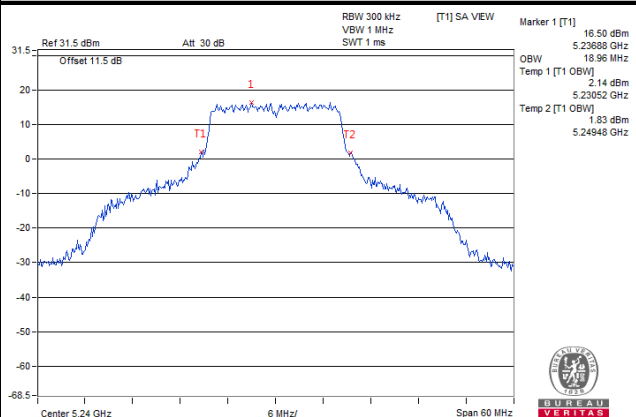
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.52
106	5530	77.28	77.28
122	5610	77.52	77.28
138	5690 (U-NII-2C)	73.85	73.85
138	5690 (U-NII-3)	3.46	3.46
155	5775	77.52	77.28

802.11ax (HE160)

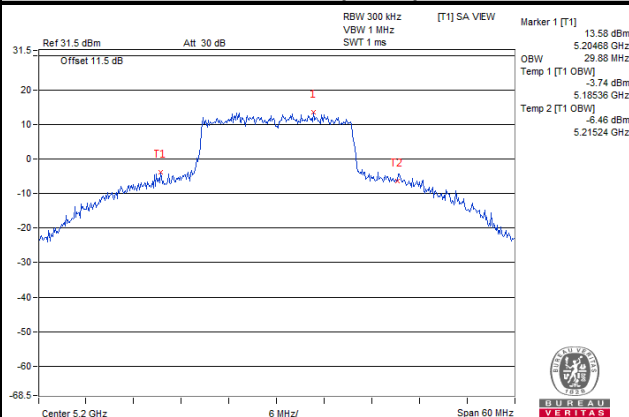
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1 Band)	5250	77.76	77.76
50 (U-NII-2A Band)	5250	78.72	78.72
114	5570	156.48	156.48

Spectrum Plot of Worst Value

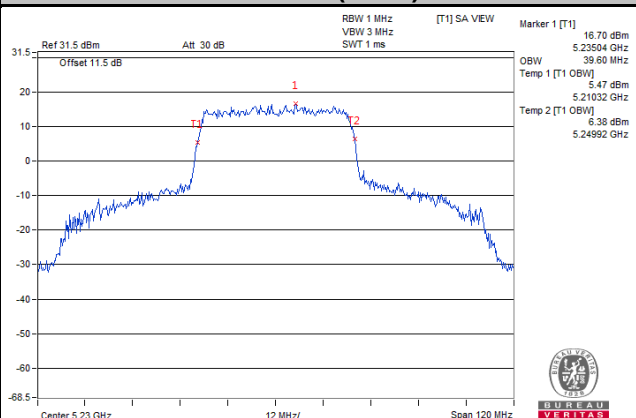
802.11a



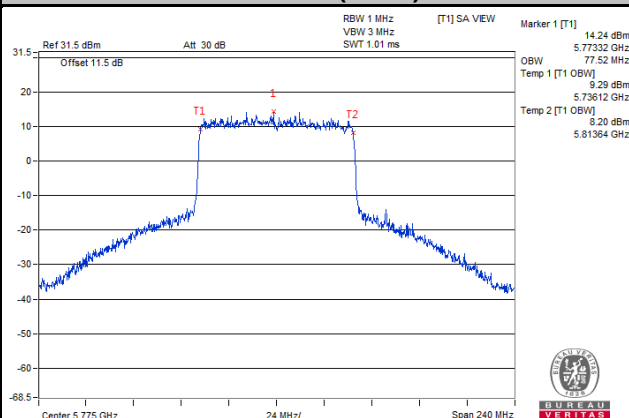
802.11ax (HE20)



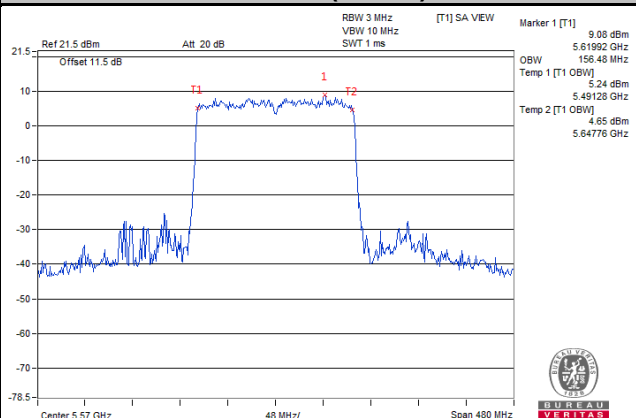
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)

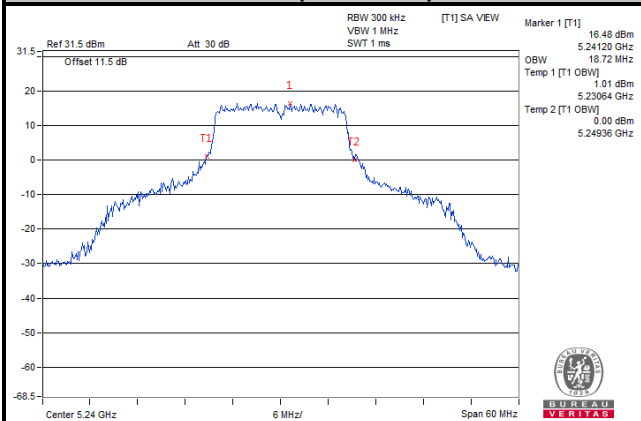


Chain 0

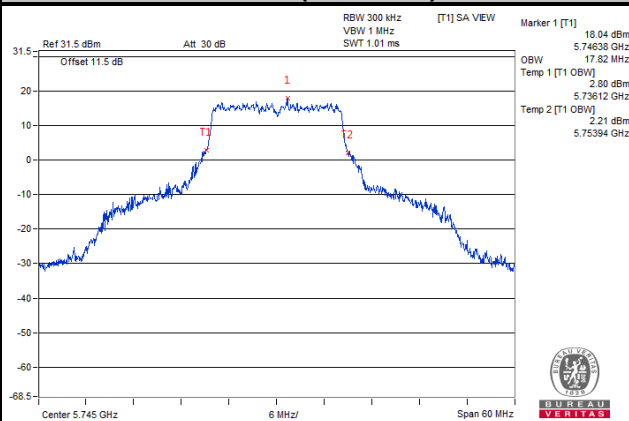
Spectrum Plot for Nearby DFS Band

802.11a

Ch 48 (5240 MHz)

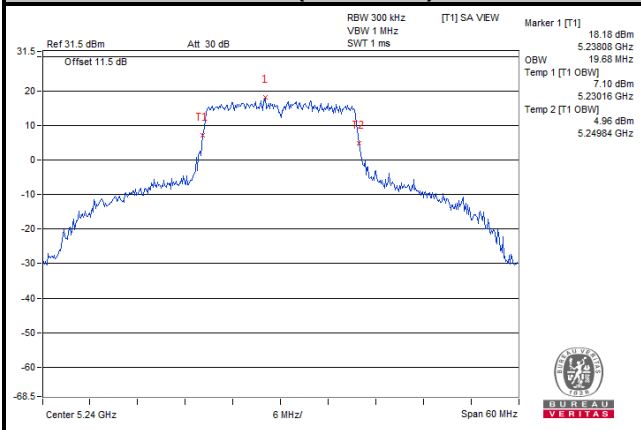


Ch 149 (5745 MHz)

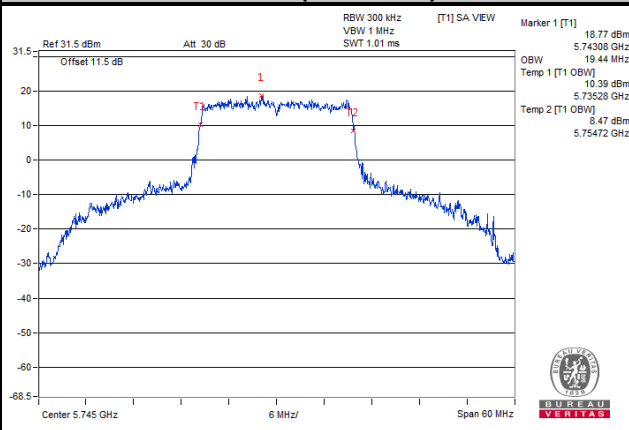


802.11ax (HE20)

Ch 48 (5240 MHz)

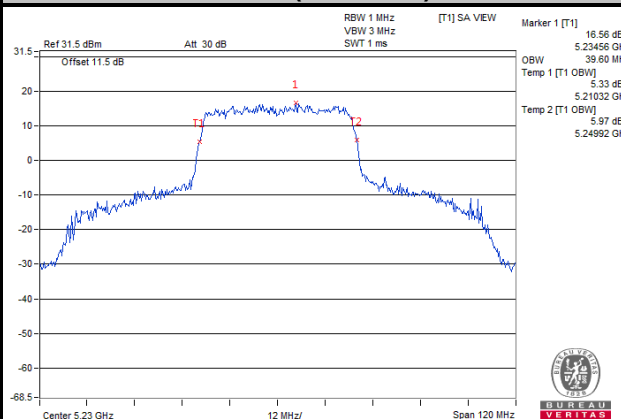


Ch 149 (5745 MHz)

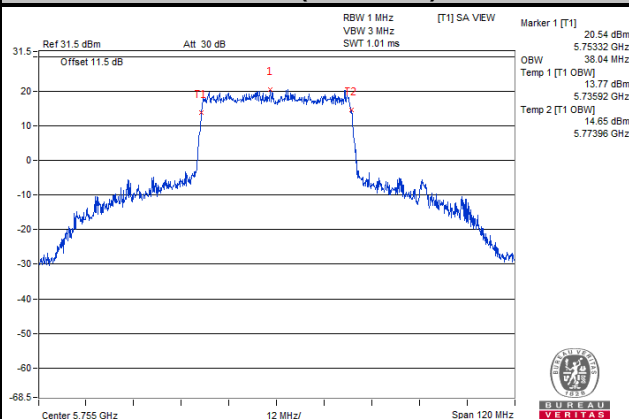


802.11ax (HE40)

Ch 46 (5230 MHz)

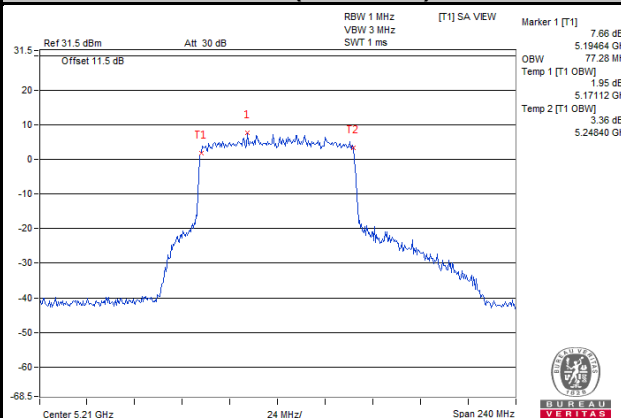


Ch 151 (5755 MHz)

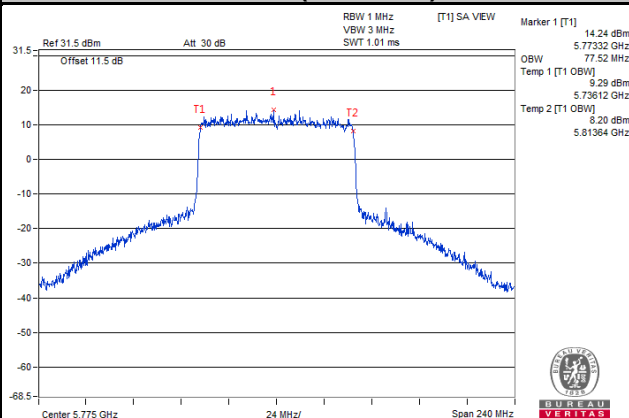


802.11ax (HE80)

Ch 42 (5210 MHz)



Ch 155 (5775 MHz)

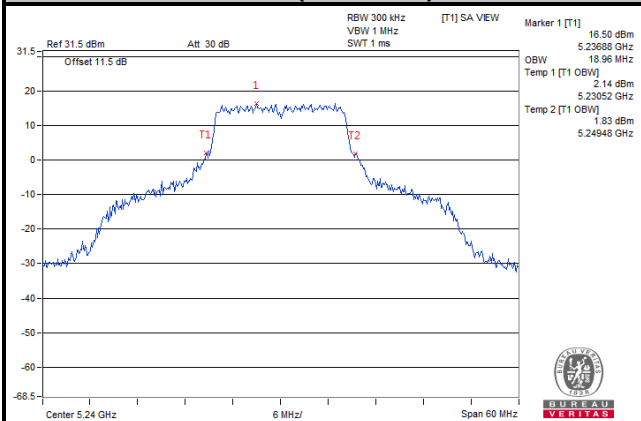


Chain 1

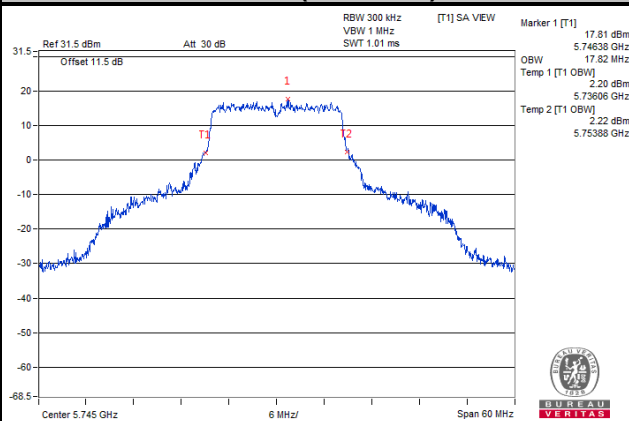
Spectrum Plot for Nearby DFS Band

802.11a

Ch 48 (5240 MHz)

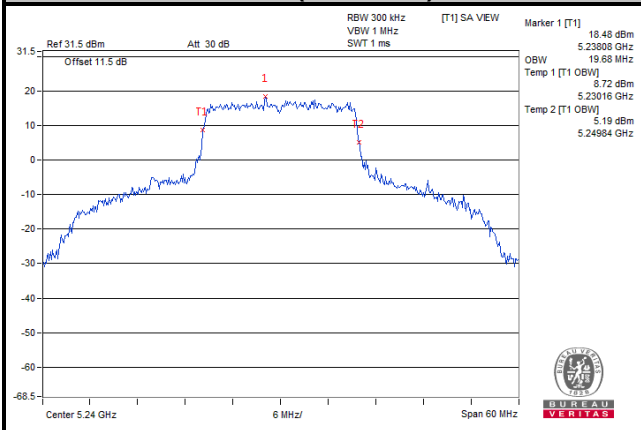


Ch 149 (5745 MHz)

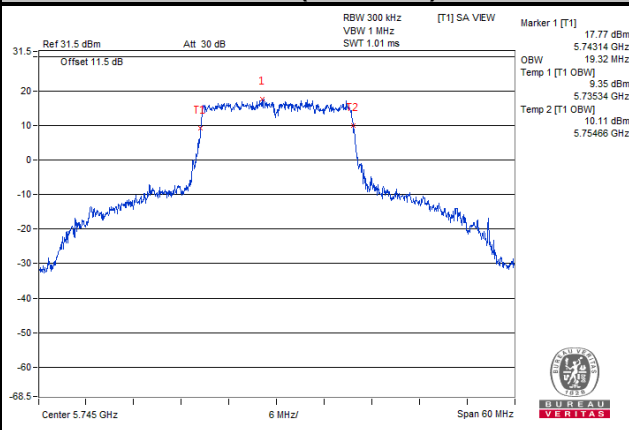


802.11ax (HE20)

Ch 48 (5240 MHz)

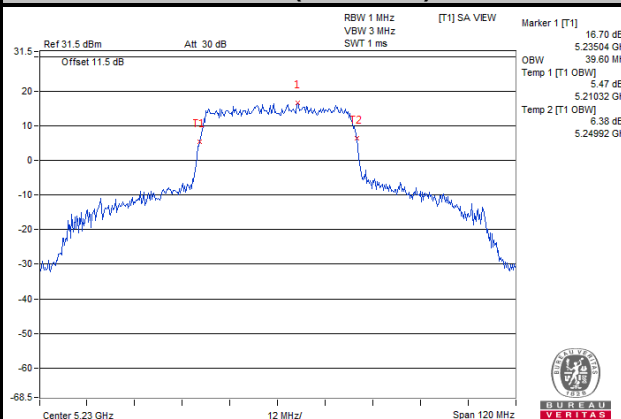


Ch 149 (5745 MHz)

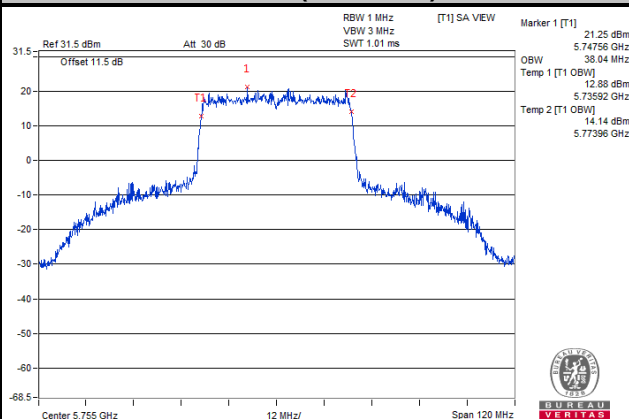


802.11ax (HE40)

Ch 46 (5230 MHz)

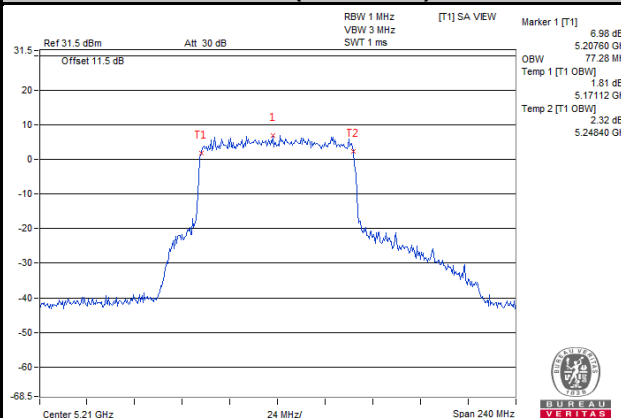


Ch 151 (5755 MHz)

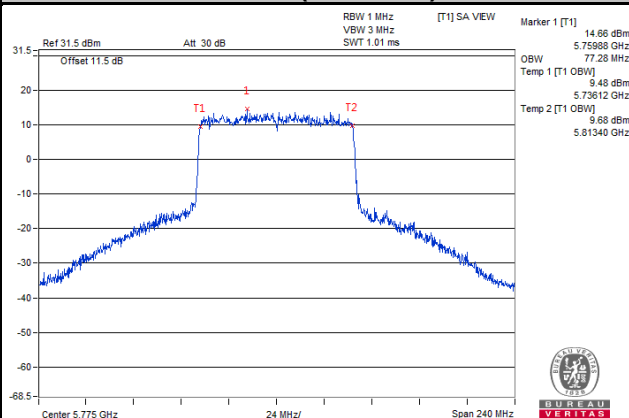


802.11ax (HE80)

Ch 42 (5210 MHz)



Ch 155 (5775 MHz)



Mode B
802.11ax (HE20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.40	19.31
64	5320	19.32	19.20
100	5500	19.32	19.32
140	5700	19.08	19.08

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.04	38.00
62	5310	37.92	38.04
102	5510	37.92	37.92
134	5670	38.88	38.88

802.11ax (HE80)

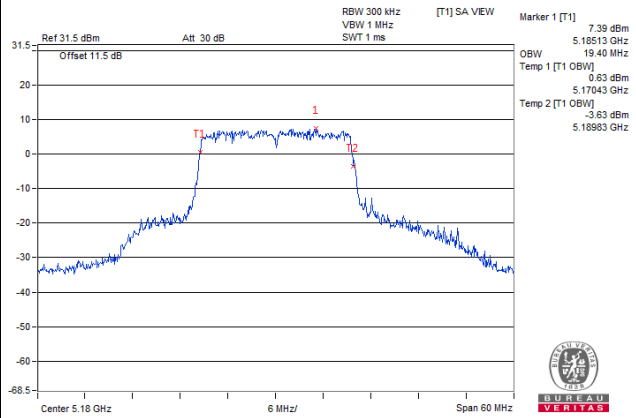
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	79.20	79.20
58	5290	78.00	78.00
106	5530	77.92	77.57

802.11ax (HE160)

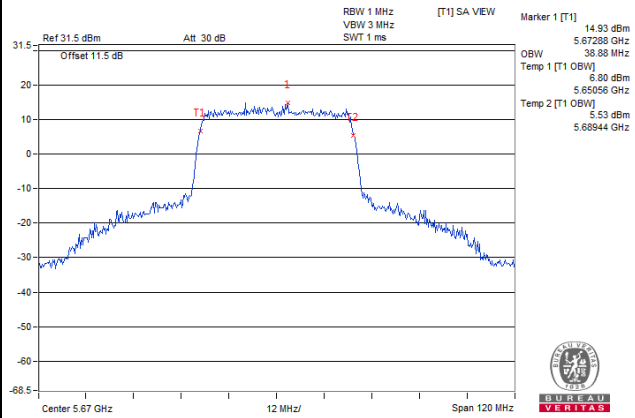
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1 Band)	5250	77.76	77.76
50 (U-NII-2A Band)	5250	78.72	79.68

Spectrum Plot of Worst Value

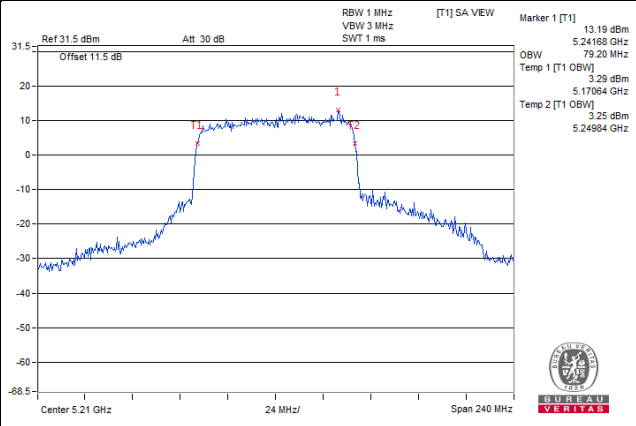
802.11ax (HE20)



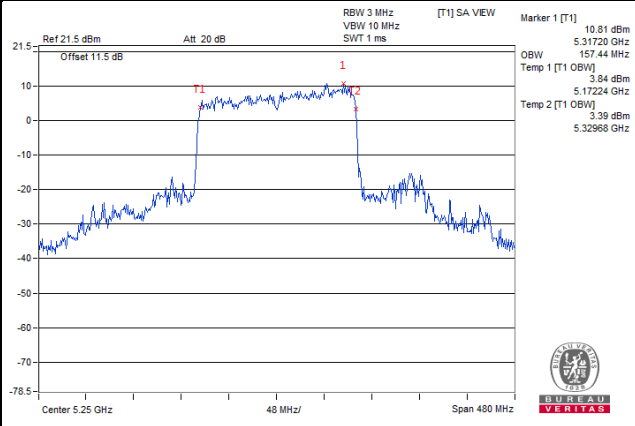
802.11ax (HE40)



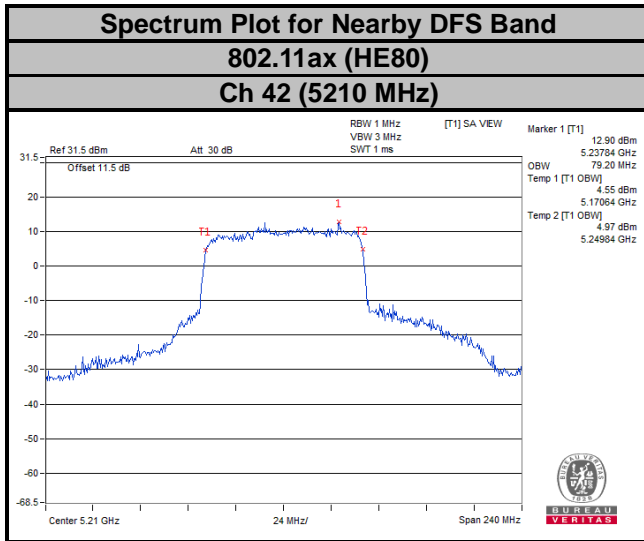
802.11ax (HE80)



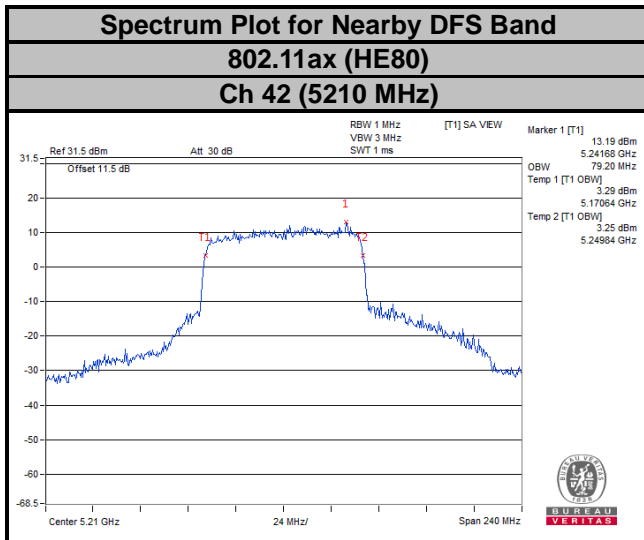
802.11ax (HE160)



Chain 0



Chain 1

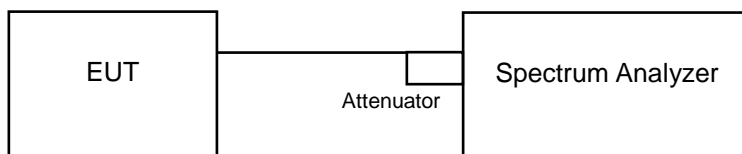


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

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

Using method SA-1

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

Using method SA-2

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

※ For U-NII-3:

Using method SA-1

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

Using method SA-2

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

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

4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C Band

Mode A

802.11a

Channel	Frequency (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	8.05	8.22	11.15	17	Pass
40	5200	11.62	12.01	14.83	17	Pass
48	5240	12.48	12.79	15.65	17	Pass
52	5260	6.59	6.68	9.65	11	Pass
60	5300	6.68	6.76	9.73	11	Pass
64	5320	6.65	6.81	9.74	11	Pass
100	5500	6.70	6.68	9.70	11	Pass
116	5580	6.90	6.79	9.86	11	Pass
140	5700	4.84	4.83	7.85	11	Pass
144	5720 (U-NII-2C)	6.88	6.80	9.85	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	7.68	7.81	10.76	17	Pass
40	5200	11.70	11.91	14.82	17	Pass
48	5240	12.57	12.93	15.76	17	Pass
52	5260	6.86	6.97	9.93	11	Pass
60	5300	6.93	6.99	9.97	11	Pass
64	5320	6.80	7.59	10.22	11	Pass
100	5500	6.04	6.09	9.08	11	Pass
116	5580	6.83	6.93	9.89	11	Pass
140	5700	4.66	4.52	7.60	11	Pass
144	5720 (U-NII-2C)	6.83	6.84	9.85	11	Pass

Note:

1. Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. For U-NII-1 Band:

Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

For U-NII-2A:

Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

U-NII-2C Band:

Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

802.11ax (HE40)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	2.43	1.88	0.10	5.27	17	Pass
46	5230	7.82	7.97	0.10	11.01	17	Pass
54	5270	3.87	4.00	0.10	7.05	11	Pass
62	5310	1.67	1.64	0.10	4.77	11	Pass
102	5510	2.38	2.92	0.10	5.77	11	Pass
110	5550	4.01	3.66	0.10	6.95	11	Pass
134	5670	3.12	3.08	0.10	6.21	11	Pass
142	5710 (U-NII-2C)	3.94	3.63	0.10	6.90	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
 Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
 Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
 Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	0.40	0.43	0.09	3.52	17	Pass
58	5290	-0.45	-0.44	0.09	2.66	11	Pass
106	5530	0.00	-0.52	0.09	2.85	11	Pass
122	5610	0.78	0.49	0.09	3.74	11	Pass
138	5690 (U-NII-2C)	0.82	0.67	0.09	3.85	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

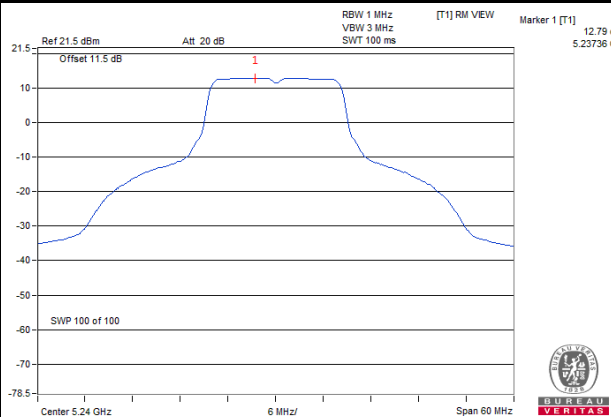
Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
50 (U-NII-1)	5250	-5.57	-5.63	0.47	-2.12	17	Pass
50 (U-NII-2A)	5250	-3.53	-3.50	0.47	-0.03	11	Pass
114	5570	-5.14	-5.75	0.47	-1.95	11	Pass

Note:

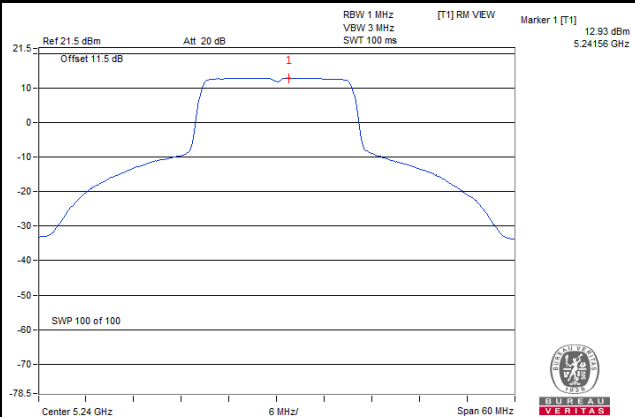
- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

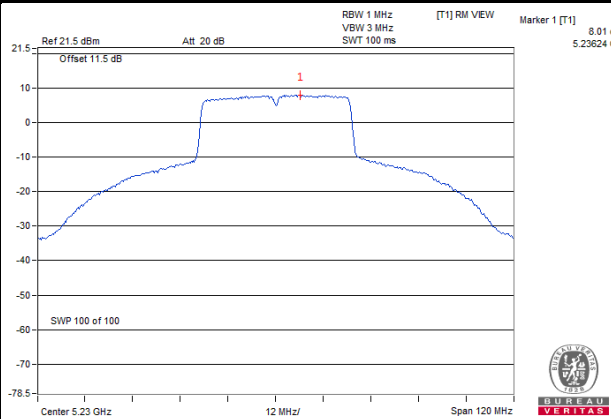
802.11a



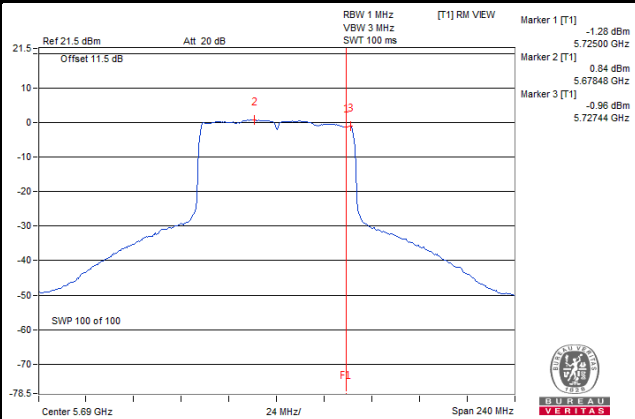
802.11ax (HE20)



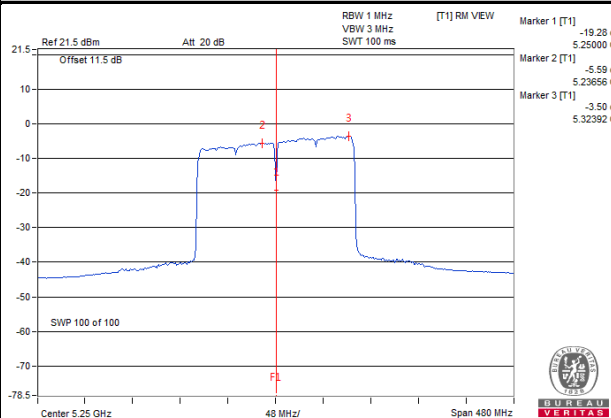
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



Mode B

802.11ax (HE20)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	8.00	7.85	10.94	17	Pass
64	5320	7.02	7.62	10.34	11	Pass
100	5500	7.43	6.99	10.23	11	Pass
140	5700	5.58	5.21	8.41	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2/2) = 2 dBi < 6 dBi, so the limit no need to be reduced.

802.11ax (HE40)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	3.13	2.93	0.10	6.14	17	Pass
62	5310	2.24	1.79	0.10	5.13	11	Pass
102	5510	3.17	3.34	0.10	6.37	11	Pass
134	5670	3.93	3.42	0.10	6.79	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2/2) = 2 dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	1.68	1.27	0.09	4.58	17	Pass
58	5290	-0.01	0.00	0.09	3.10	11	Pass
106	5530	0.19	-0.41	0.09	3.00	11	Pass

Note:

- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2/2) = 2 dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

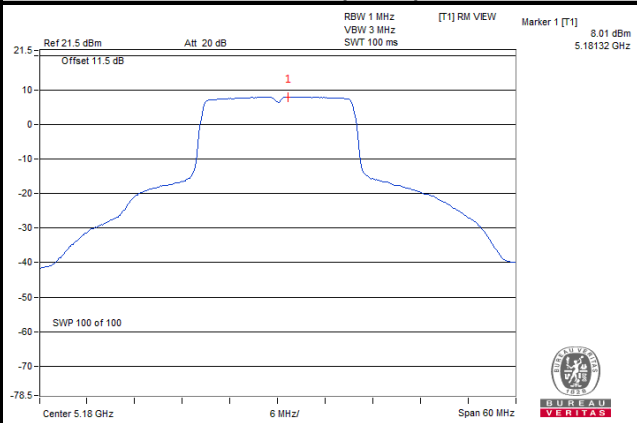
Channel	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
50 (U-NII-1)	5250	-4.36	-4.38	0.47	-0.89	17	Pass
50 (U-NII-2A)	5250	-2.32	-2.27	0.47	1.19	11	Pass

Note:

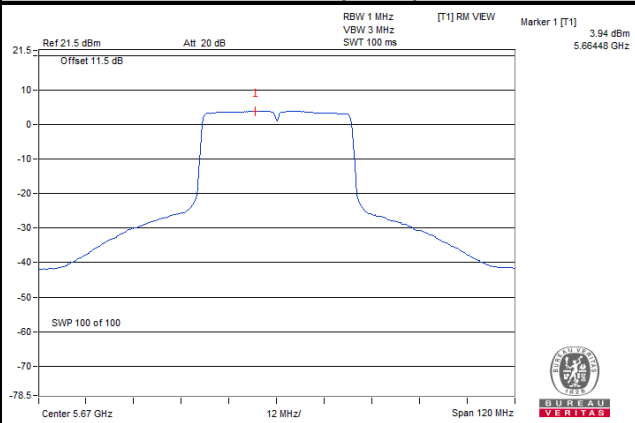
- Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:**
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
For U-NII-2A:
Directional gain = 2 dBi + 10log(2/2) = 2dBi < 6 dBi, so the limit no need to be reduced.
U-NII-2C Band:
Directional gain = 2 dBi + 10log(2/2) = 2 dBi < 6 dBi, so the limit no need to be reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

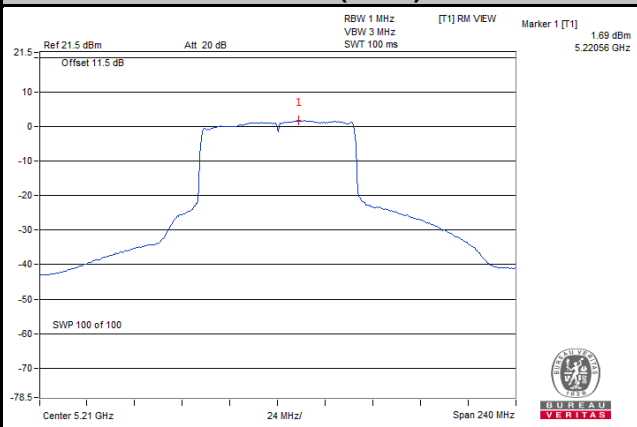
802.11ax (HE20)



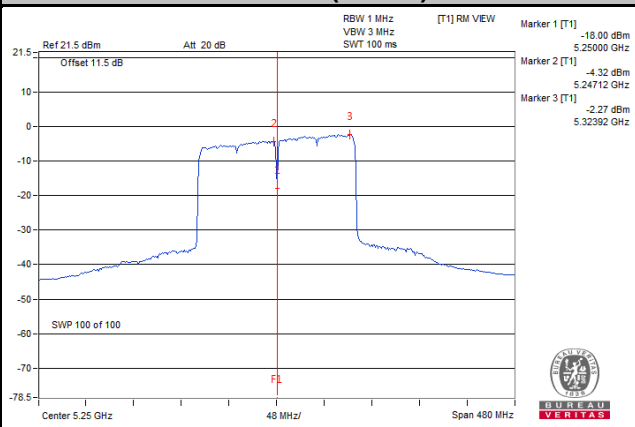
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



For U-NII-3 Band

Mode A

802.11a

TX Chain	Channel	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300 kHz)	(dBm/500 kHz)				
0	144	5720 (U-NII-3)	3.57	5.79	3.01	8.8	30	Pass
	149	5745	6.59	8.81	3.01	11.82	30	Pass
	157	5785	8.62	10.84	3.01	13.85	30	Pass
	165	5825	8.68	10.9	3.01	13.91	30	Pass
1	144	5720 (U-NII-3)	3.26	5.48	3.01	8.49	30	Pass
	149	5745	6.23	8.45	3.01	11.46	30	Pass
	157	5785	8.34	10.56	3.01	13.57	30	Pass
	165	5825	8.46	10.68	3.01	13.69	30	Pass

Note:

1. Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

802.11ax (HE20)

TX Chain	Channel	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300 kHz)	(dBm/500 kHz)				
0	144	5720 (U-NII-3)	2.78	5	3.01	8.01	30	Pass
	149	5745	8.04	10.26	3.01	13.27	30	Pass
	157	5785	8.22	10.44	3.01	13.45	30	Pass
	165	5825	8.28	10.5	3.01	13.51	30	Pass
1	144	5720 (U-NII-3)	3	5.22	3.01	8.23	30	Pass
	149	5745	7.81	10.03	3.01	13.04	30	Pass
	157	5785	7.99	10.21	3.01	13.22	30	Pass
	165	5825	7.94	10.16	3.01	13.17	30	Pass

Note:

1. Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.

802.11ax (HE40)

TX Chain	Channel	Frequency (MHz)	PSD		10 log (N=2) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300 kHz)	(dBm/500 kHz)					
0	142	5710 (U-NII-3)	-0.52	1.7	3.01	0.10	4.81	30	Pass
	151	5755	4.59	6.81	3.01	0.10	9.92	30	Pass
	159	5795	4.99	7.21	3.01	0.10	10.32	30	Pass
1	142	5710 (U-NII-3)	-0.82	1.4	3.01	0.10	4.51	30	Pass
	151	5755	4.26	6.48	3.01	0.10	9.59	30	Pass
	159	5795	4.64	6.86	3.01	0.10	9.97	30	Pass

Note:

1. Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

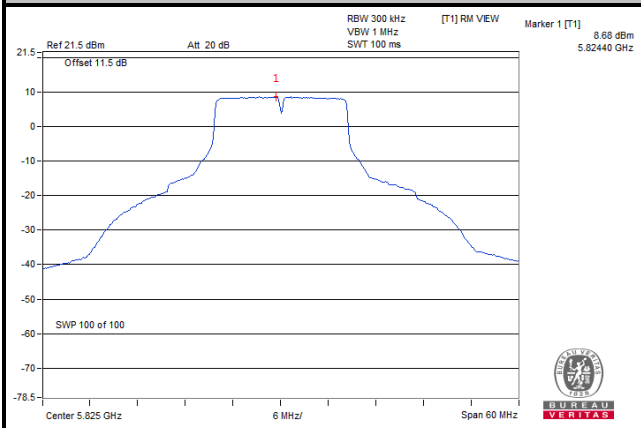
TX Chain	Channel	Frequency (MHz)	PSD		10 log (N=2) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300 kHz)	(dBm/500 kHz)					
0	138	5690 (U-NII-3)	-4.09	-1.87	3.01	0.09	1.23	30	Pass
	155	5775	-2.28	-0.06	3.01	0.09	3.04	30	Pass
1	138	5690 (U-NII-3)	-4.26	-2.04	3.01	0.09	1.06	30	Pass
	155	5775	-1.78	0.44	3.01	0.09	3.54	30	Pass

Note:

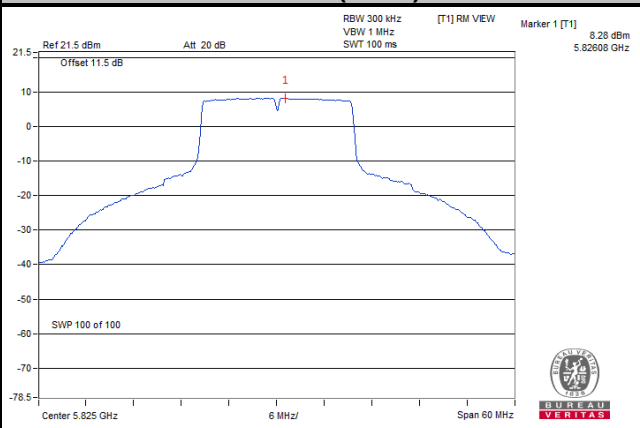
1. Method F) 2) f) i) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 2 dBi + 10log(2) = 5.01dBi < 6 dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

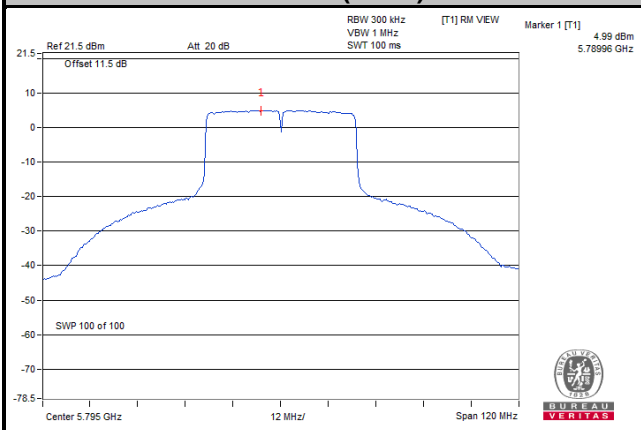
802.11a



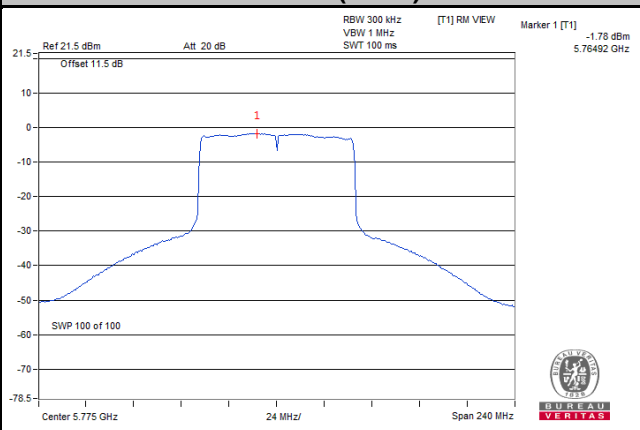
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

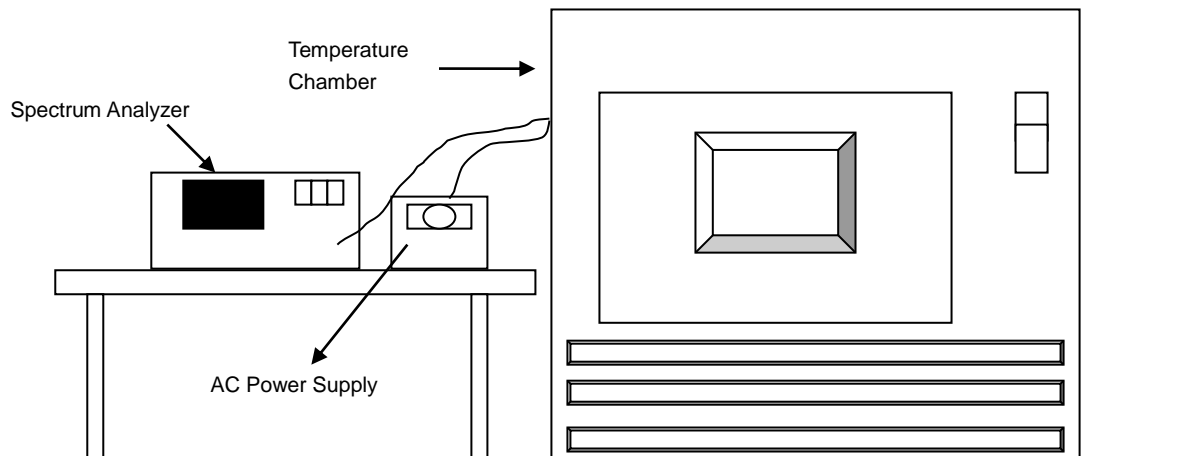


4.6 Frequency Stability

4.6.1 Limit of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Mode A

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5180.0084	Pass	5180.0062	Pass	5180.0082	Pass	5180.0073	Pass
30	120	5179.9832	Pass	5179.9843	Pass	5179.9825	Pass	5179.9825	Pass
20	120	5179.979	Pass	5179.9765	Pass	5179.9787	Pass	5179.98	Pass
10	120	5179.9902	Pass	5179.9868	Pass	5179.9906	Pass	5179.9858	Pass
0	120	5180.0019	Pass	5180.0003	Pass	5180.0048	Pass	5180.0015	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0046	Pass	5180.0056	Pass	5180.0051	Pass	5180.0028	Pass
	120	5180.0019	Pass	5180.0003	Pass	5180.0048	Pass	5180.0015	Pass
	102	5180.004	Pass	5180.006	Pass	5180.0079	Pass	5180.0073	Pass

4.7 6 dB Bandwidth Measurement

4.7.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

Mode A

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3)	3.26	3.27	0.5	Pass
149	5745	16.40	16.38	0.5	Pass
157	5785	16.38	16.37	0.5	Pass
165	5825	16.37	16.37	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3)	4.50	4.50	0.5	Pass
149	5745	18.79	18.68	0.5	Pass
157	5785	18.63	18.82	0.5	Pass
165	5825	18.59	18.79	0.5	Pass

802.11ax (HE40)

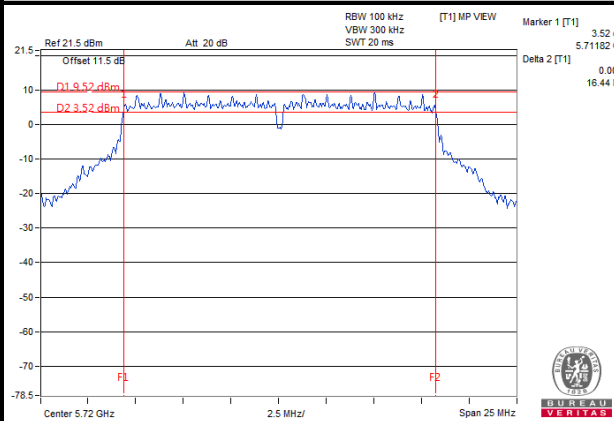
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (U-NII-3)	4.00	3.93	0.5	Pass
151	5755	37.72	37.74	0.5	Pass
159	5795	37.73	37.78	0.5	Pass

802.11ax (HE80)

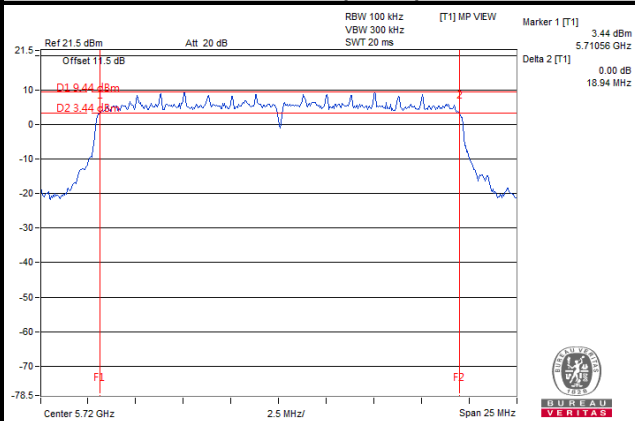
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (U-NII-3)	2.76	2.76	0.5	Pass
155	5775	77.30	77.26	0.5	Pass

Spectrum Plot of Worst Value

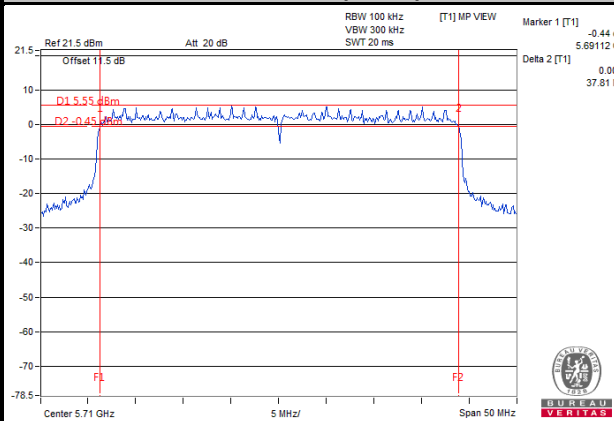
802.11a



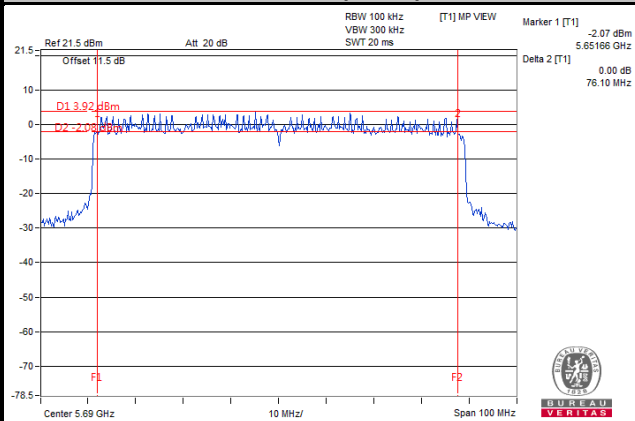
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Note:

For Ch144 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

For Ch142 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

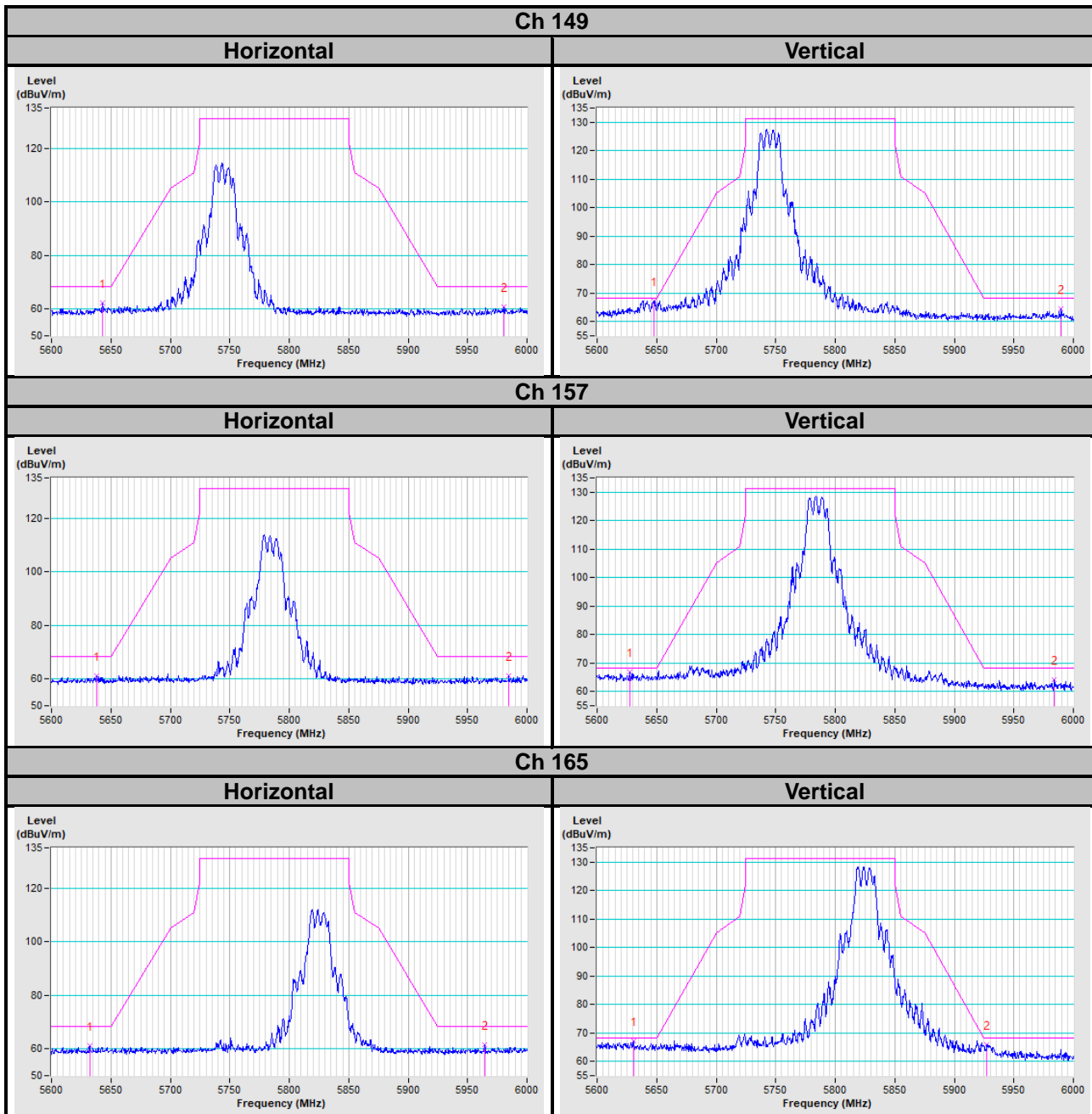
For Ch138 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

5 Pictures of Test Arrangements

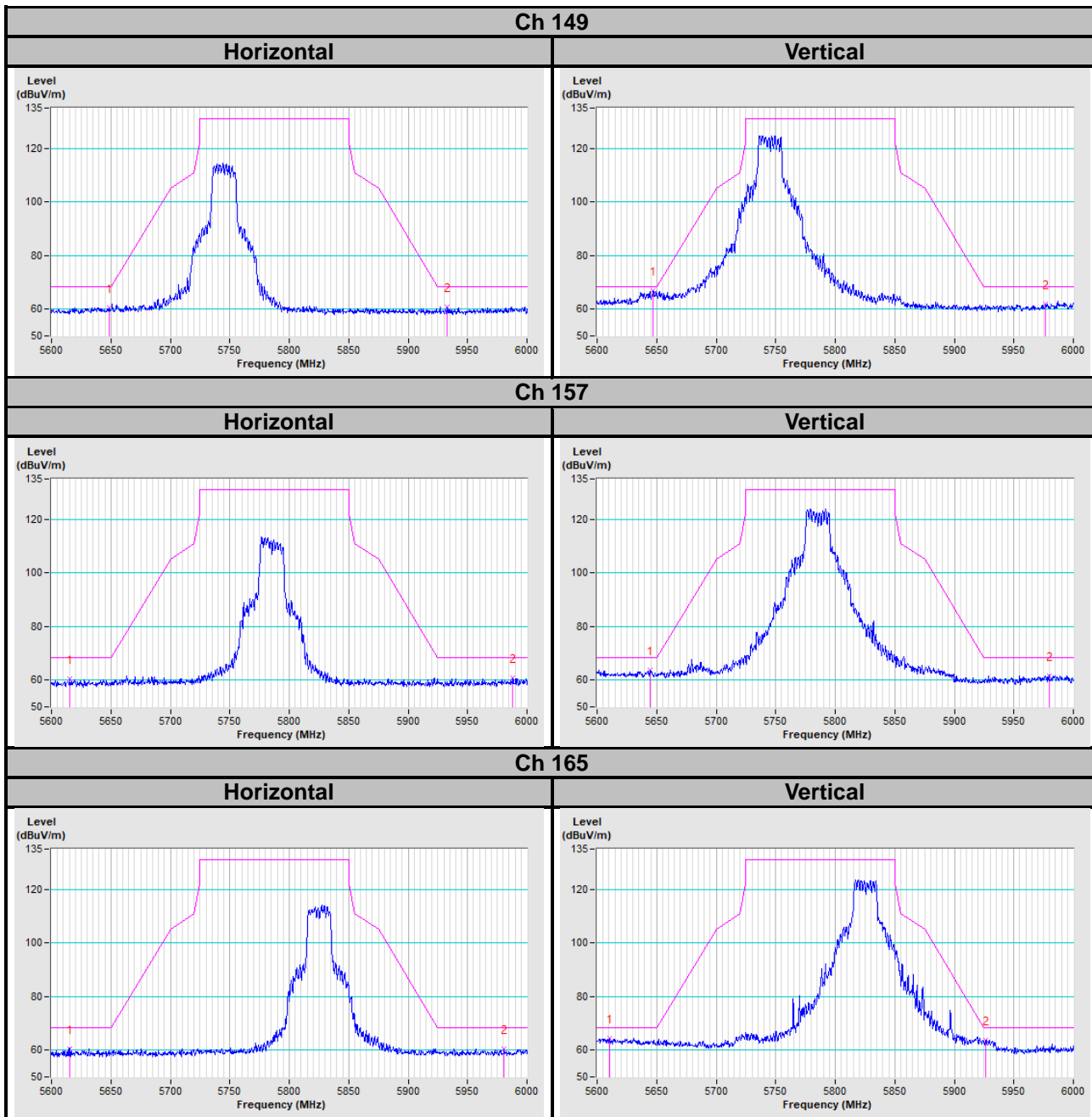
Please refer to the attached file (Test Setup Photo).

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

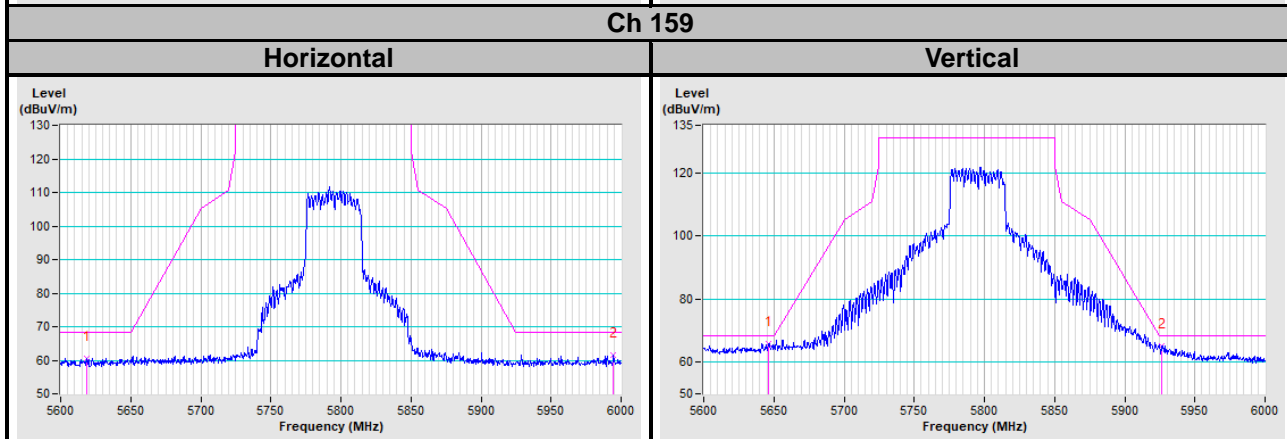
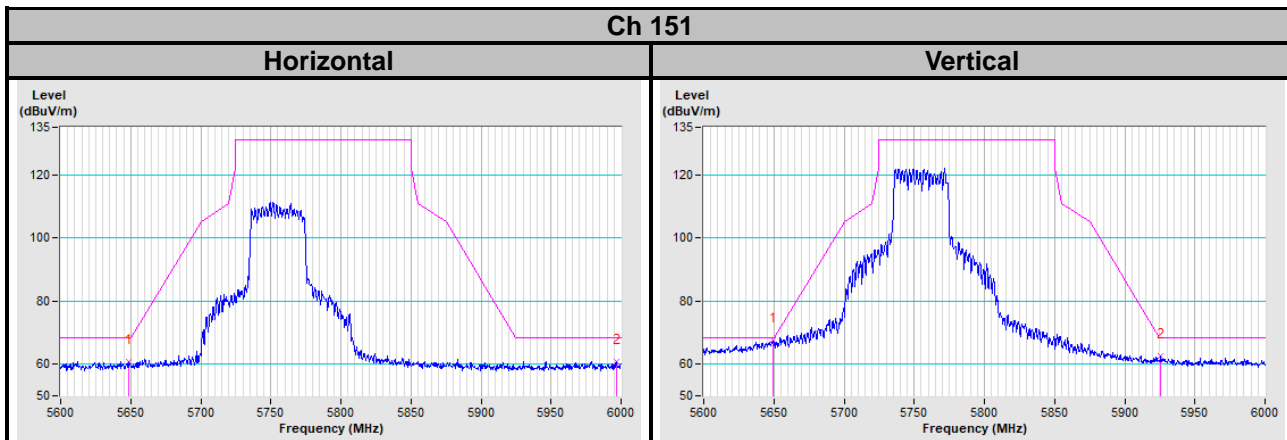
Mode A
802.11a



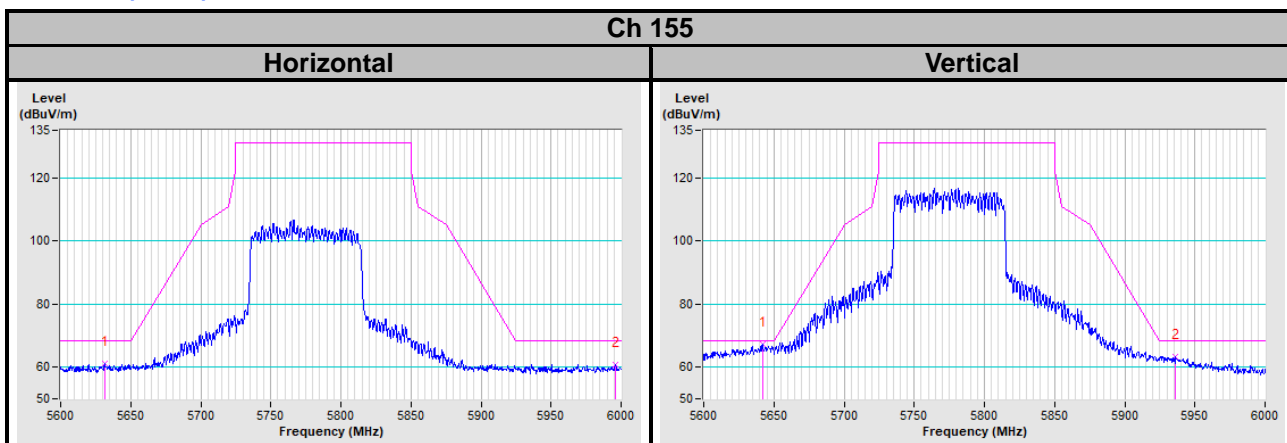
802.11ax (HE20)



802.11ax (HE40)

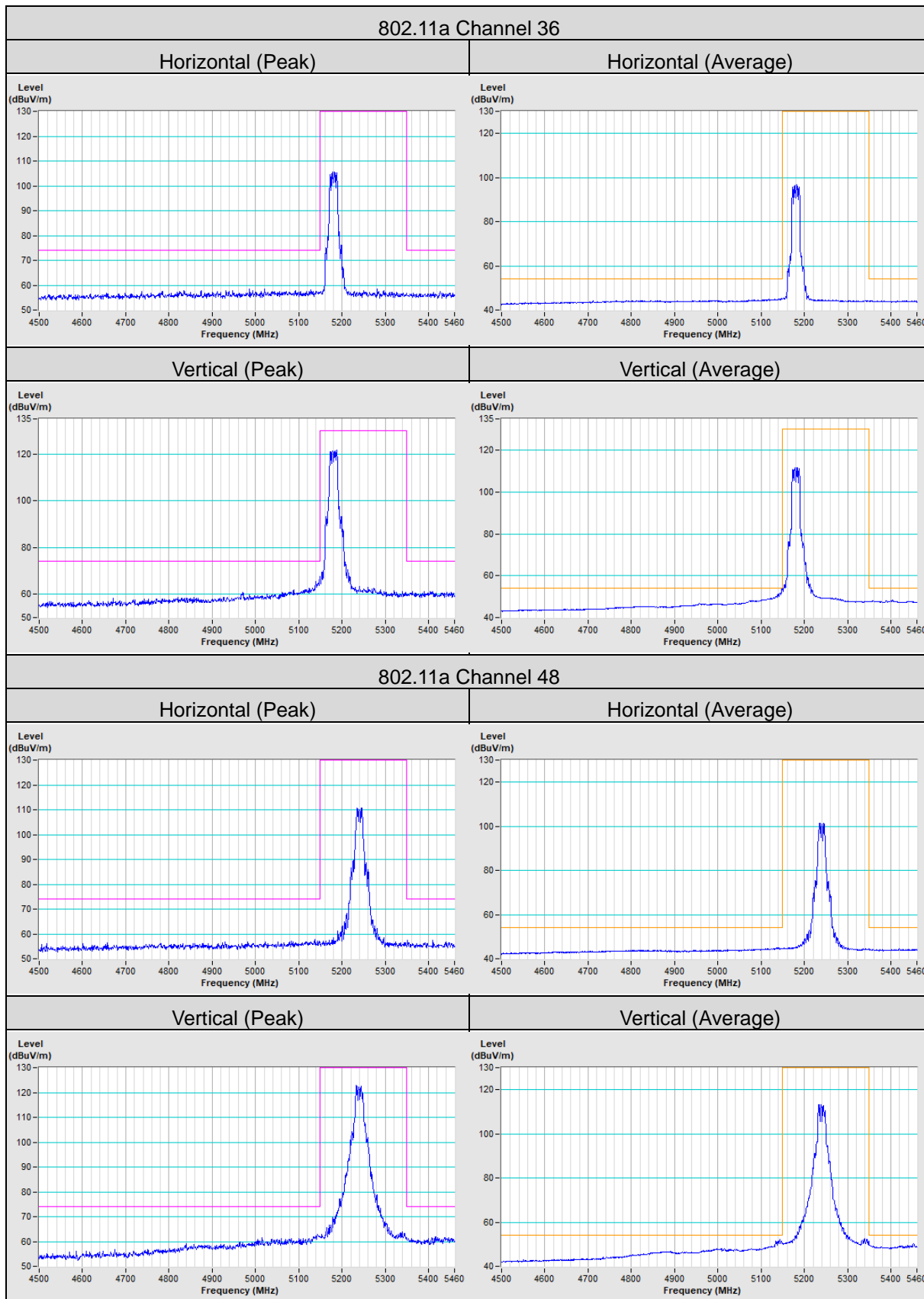


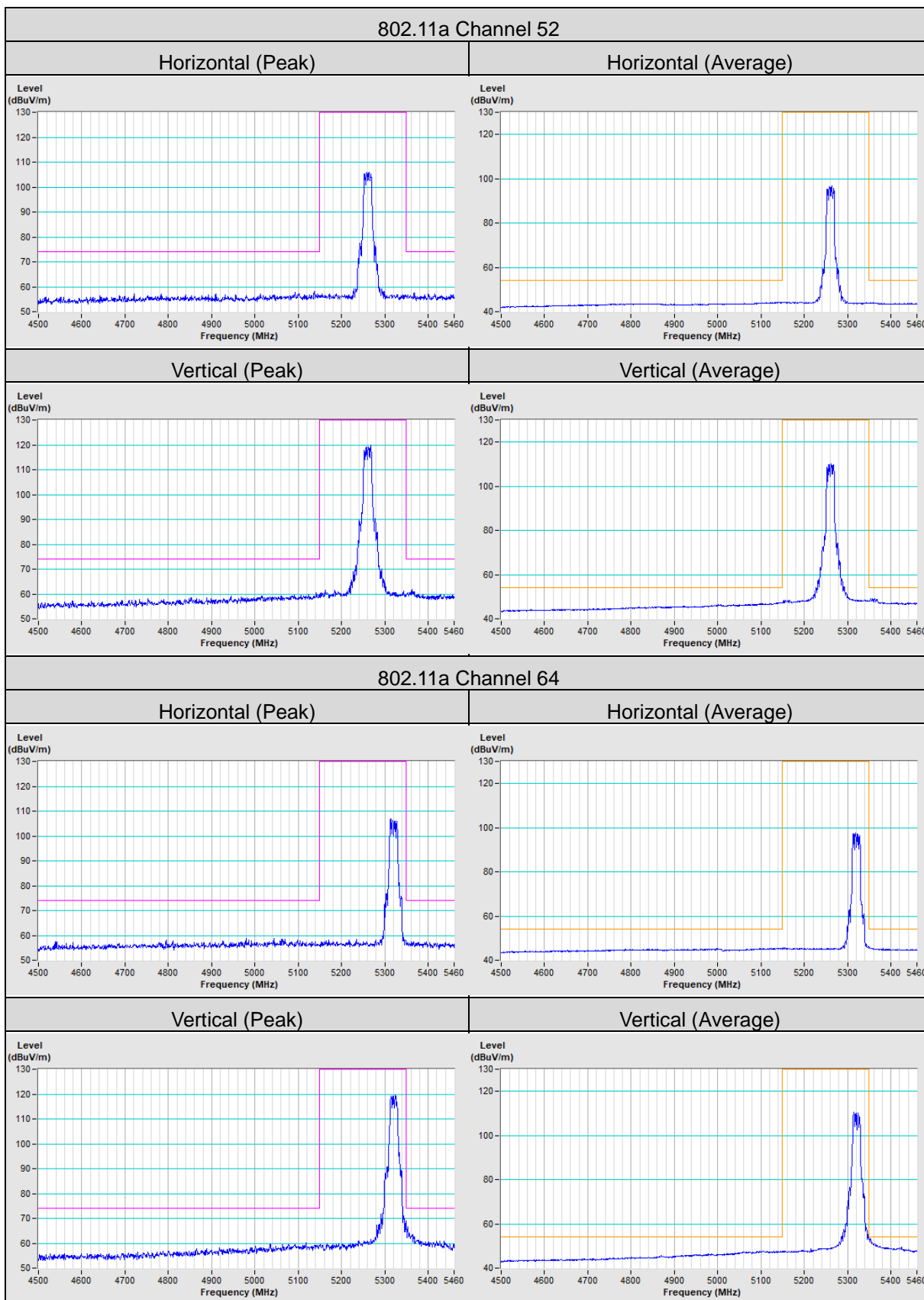
802.11ax (HE80)



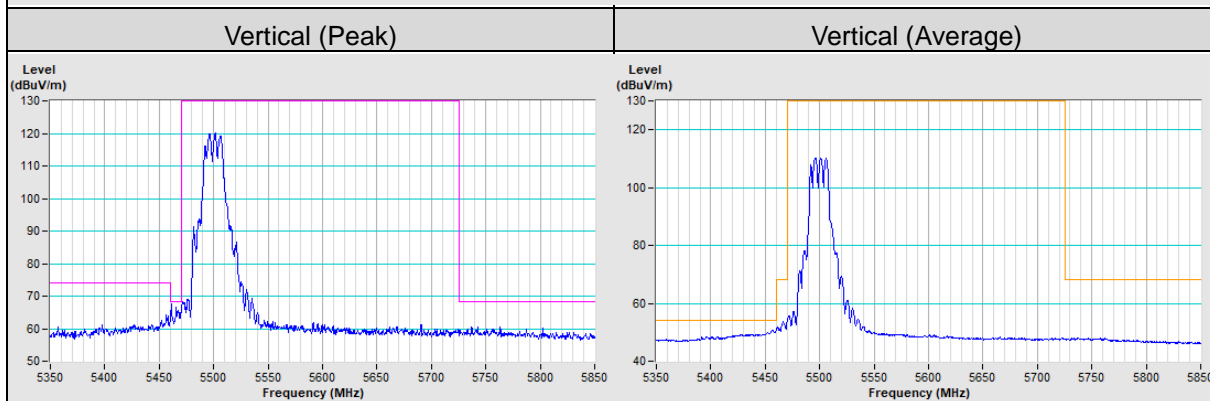
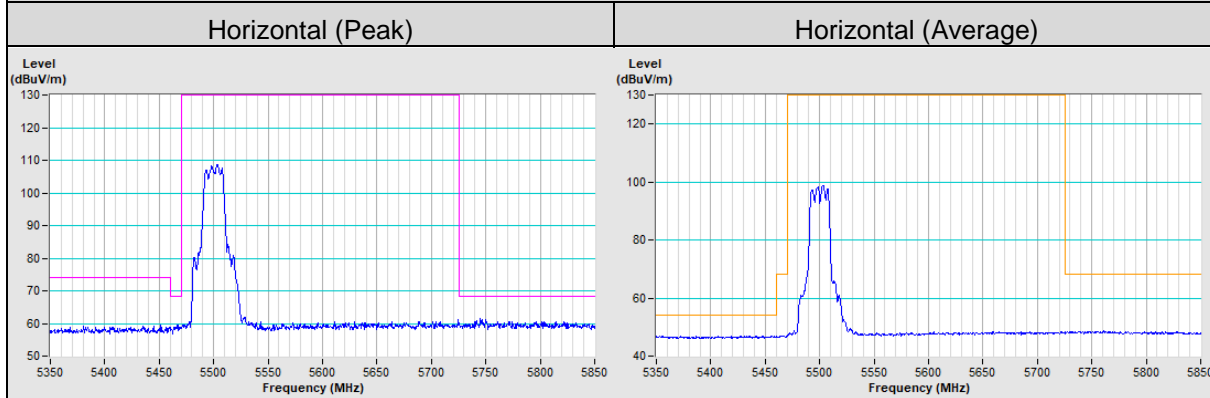
Annex B- Band Edge Measurement

Mode A

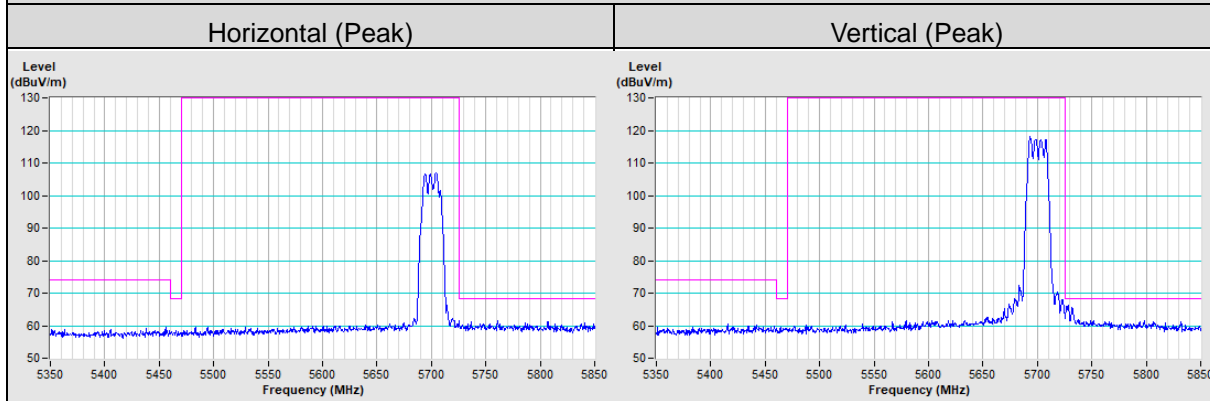




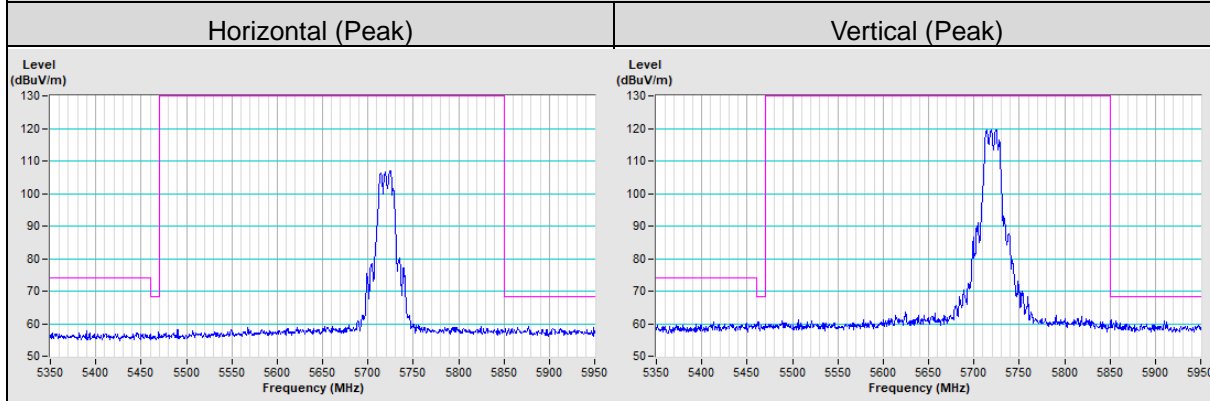
802.11a Channel 100



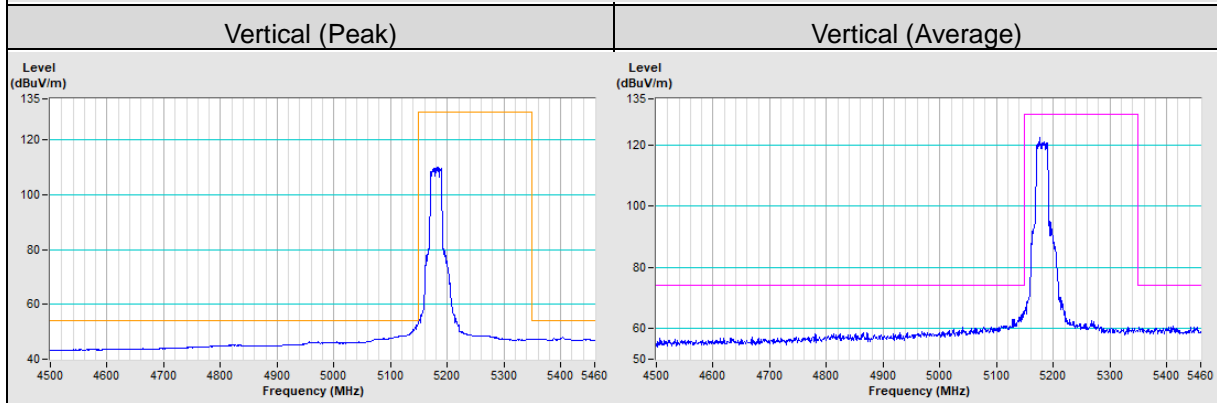
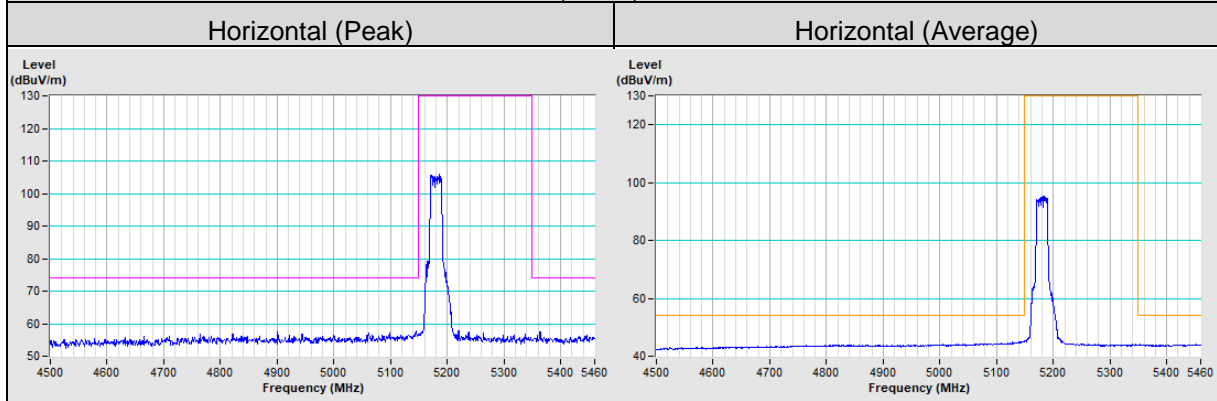
802.11a Channel 140



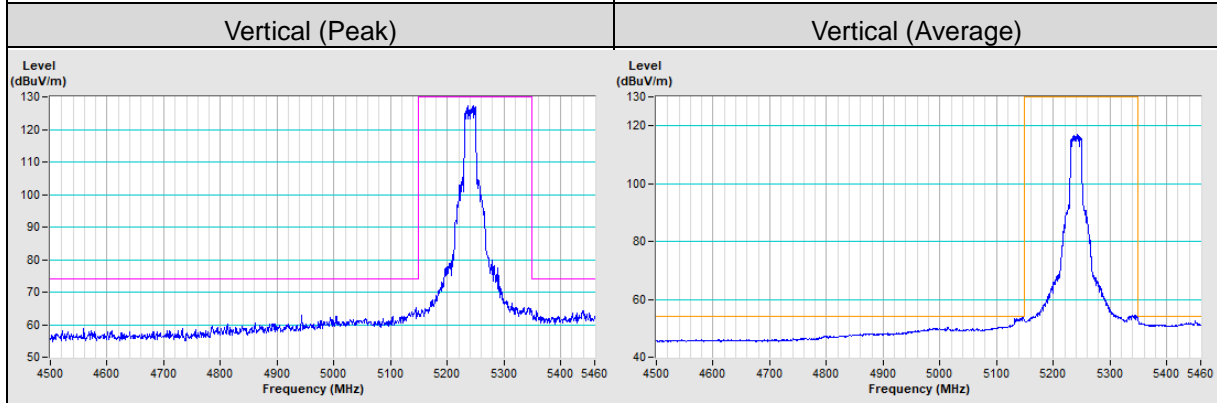
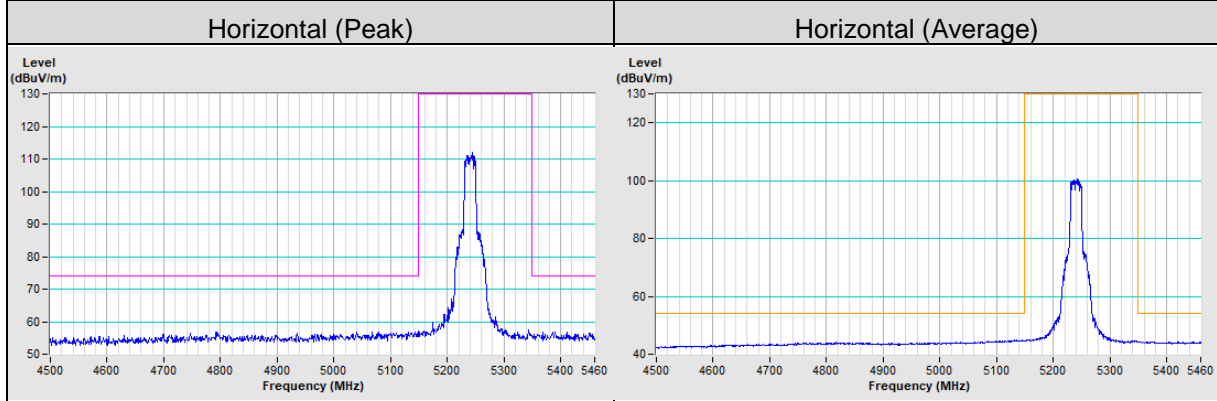
802.11a Channel 144



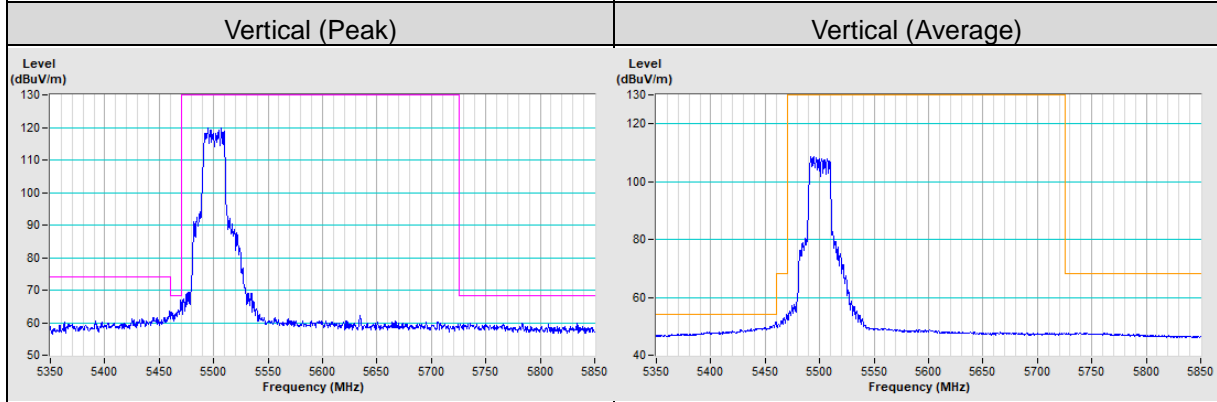
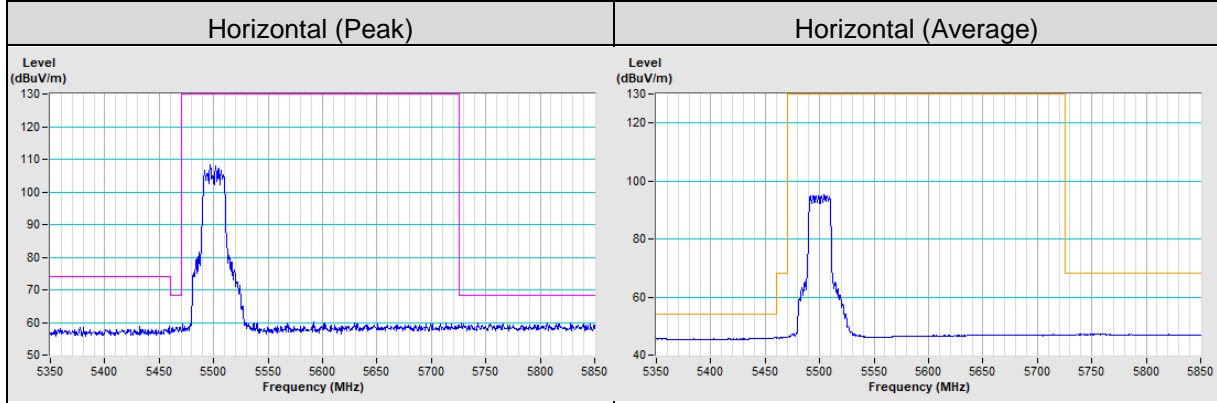
802.11ax (HE20) Channel 36



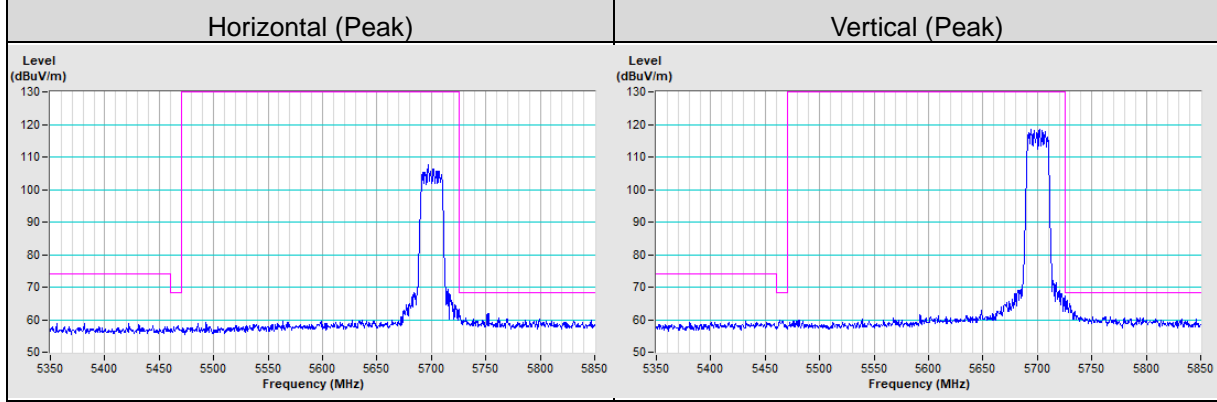
802.11ax (HE20) Channel 48



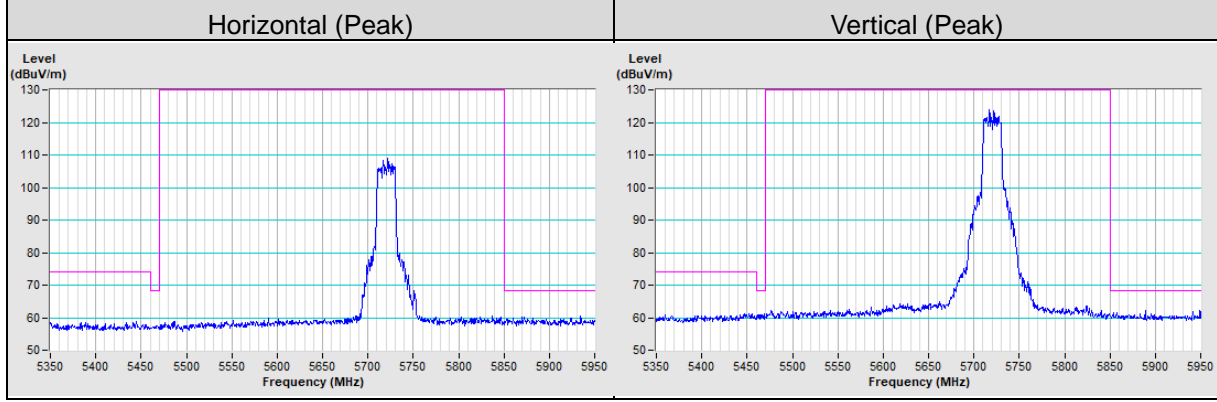
802.11ax (HE20) Channel 100



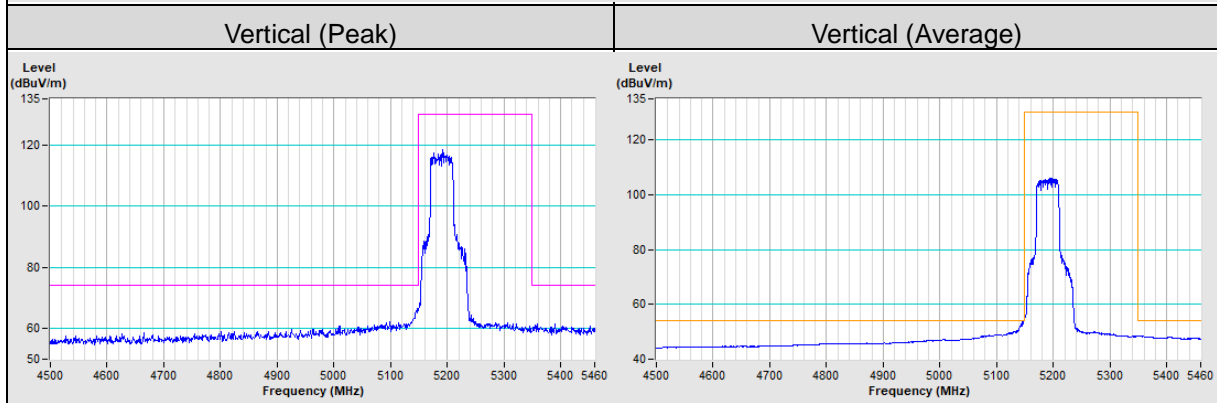
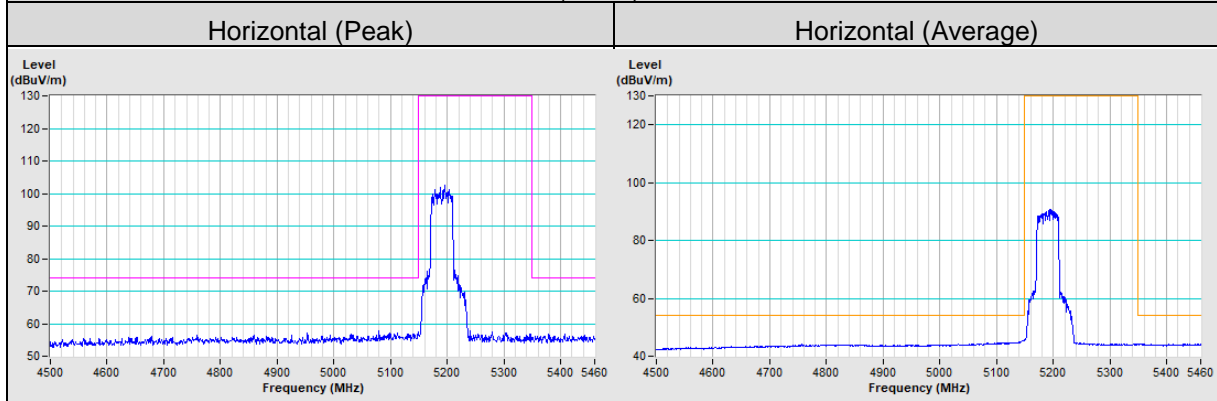
802.11ax (HE20) Channel 140



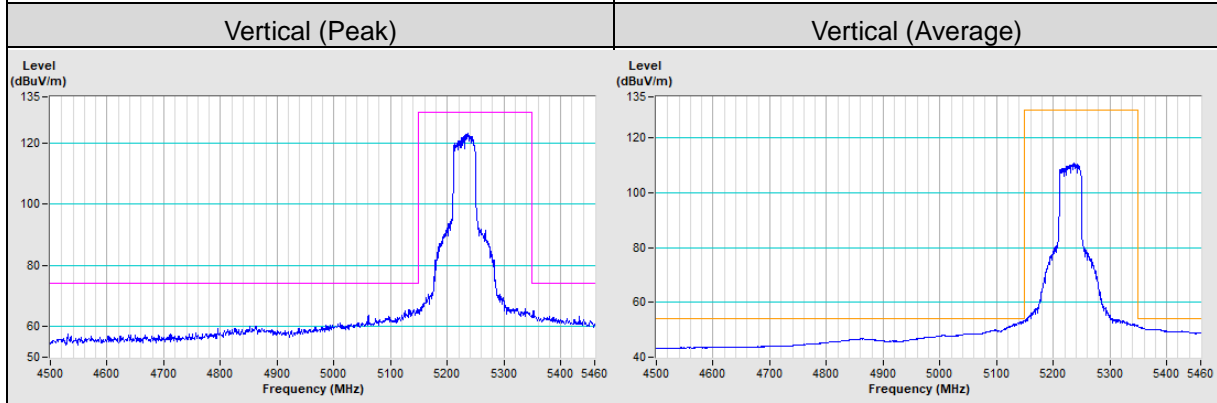
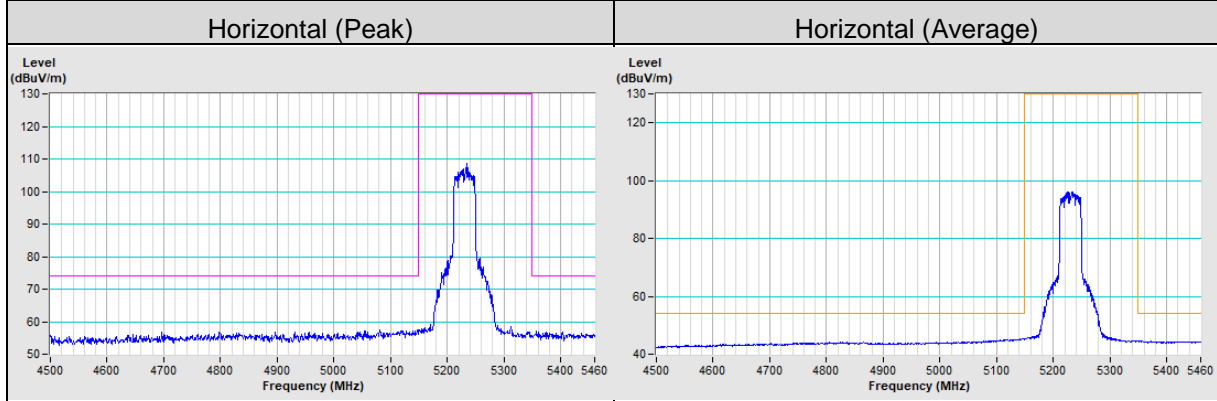
802.11ax (HE20) Channel 144



802.11ax (HE40) Channel 38

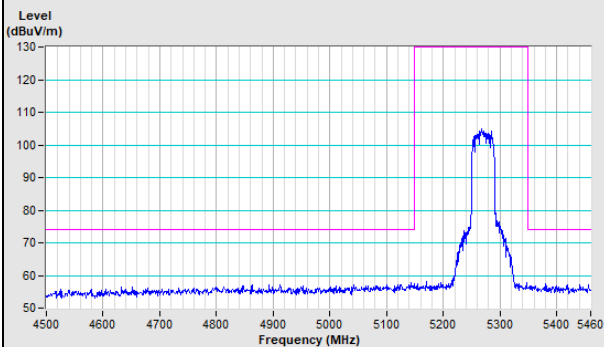


802.11ax (HE40) Channel 46

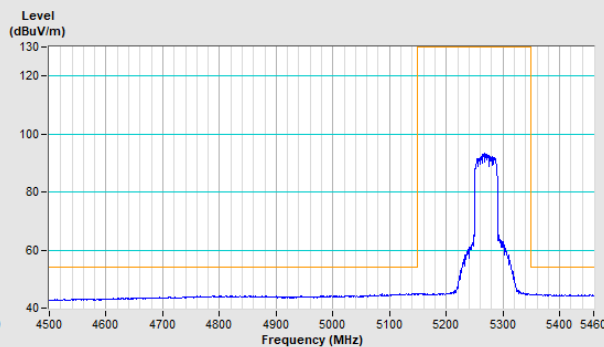


802.11ax (HE40) Channel 54

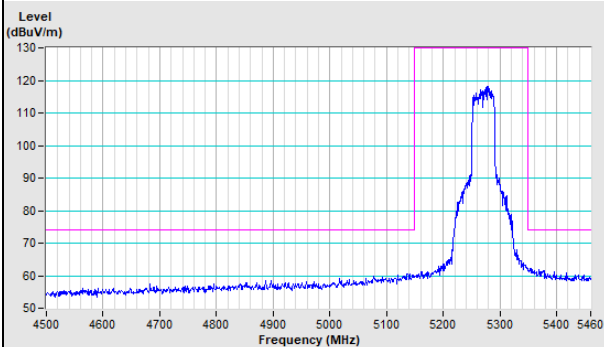
Horizontal (Peak)



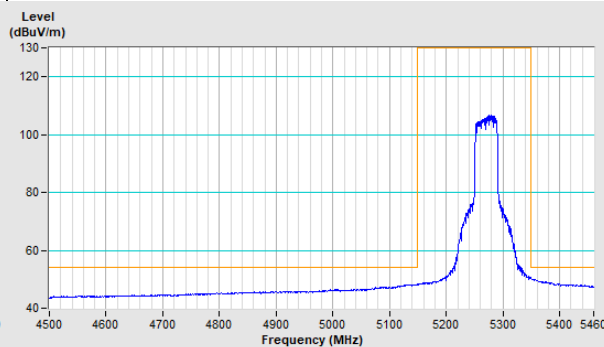
Horizontal (Average)



Vertical (Peak)

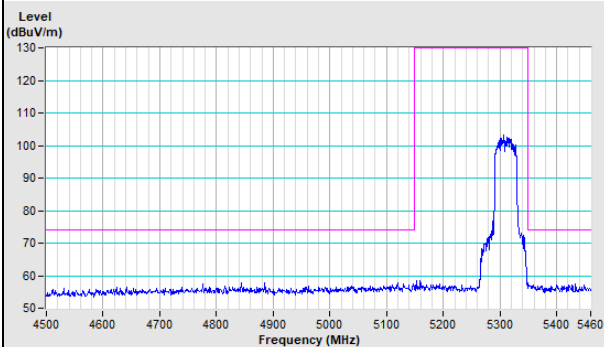


Vertical (Average)

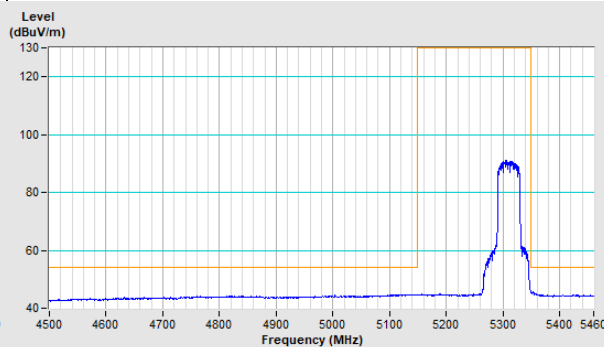


802.11ax (HE40) Channel 62

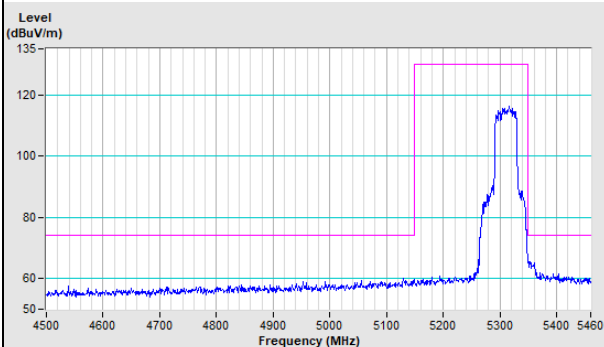
Horizontal (Peak)



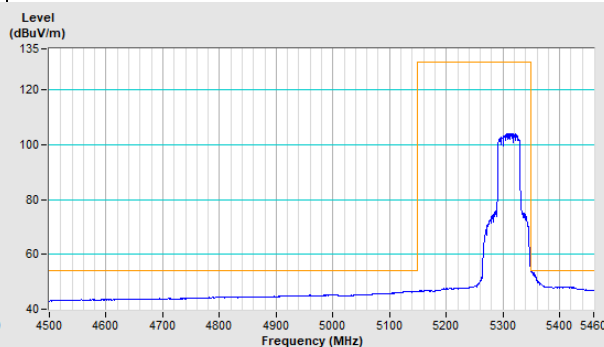
Horizontal (Average)



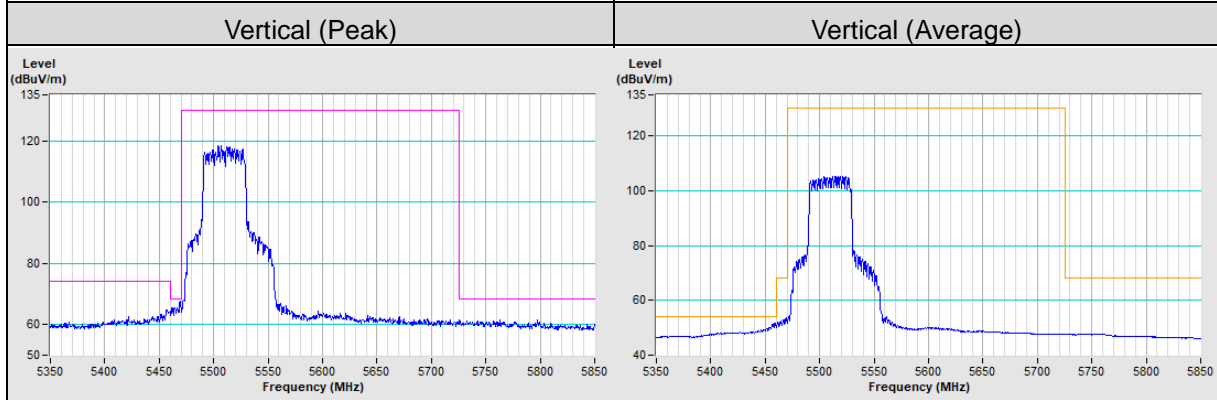
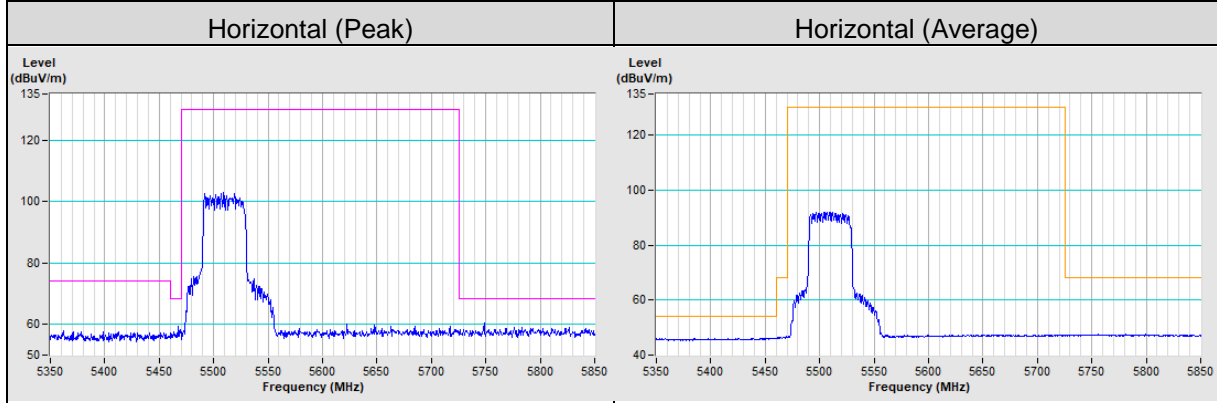
Vertical (Peak)



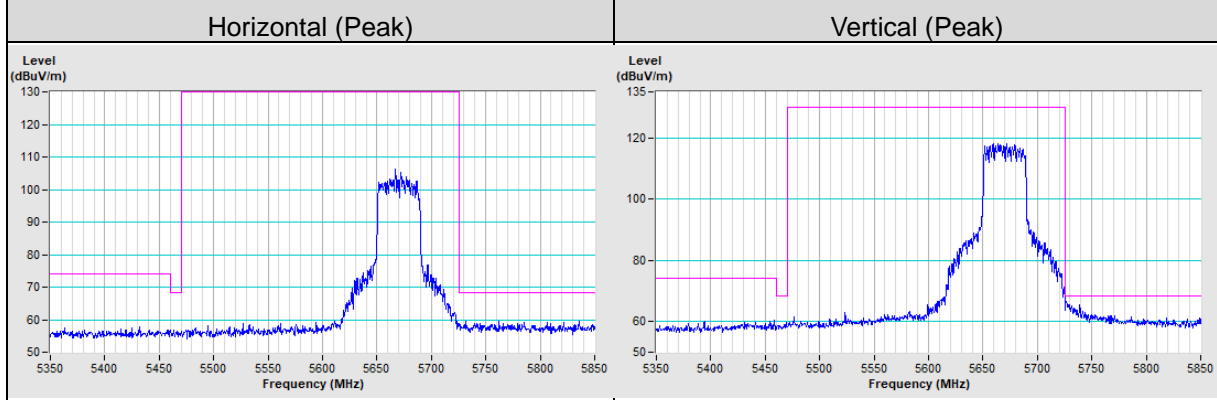
Vertical (Average)



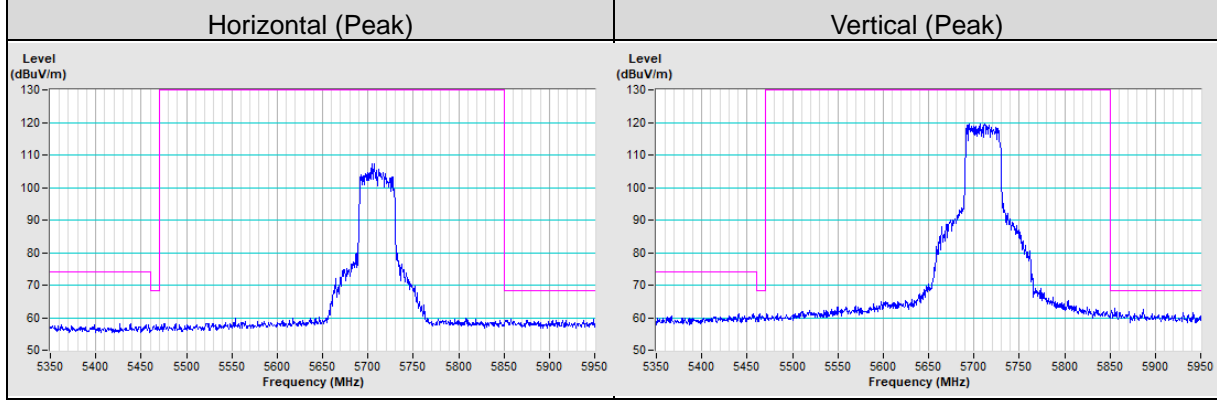
802.11ax (HE40) Channel 102



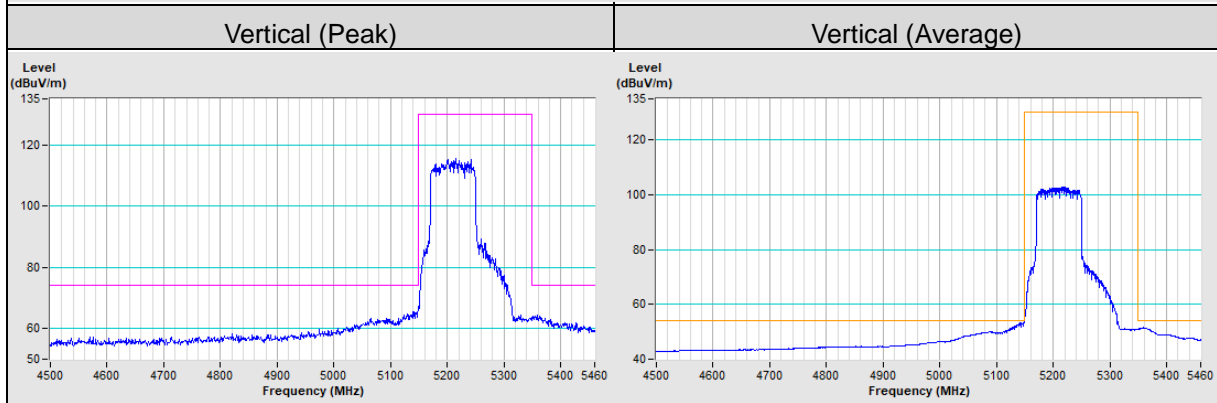
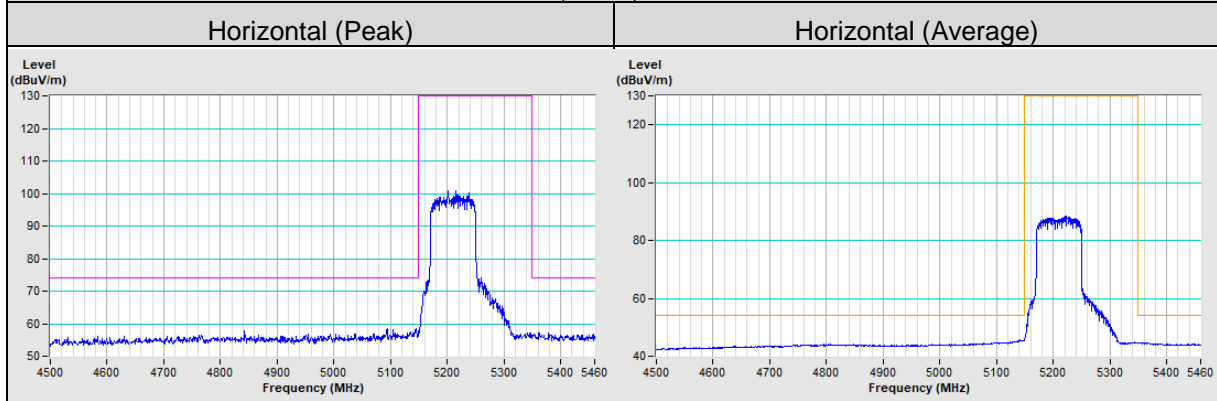
802.11ax (HE40) Channel 134



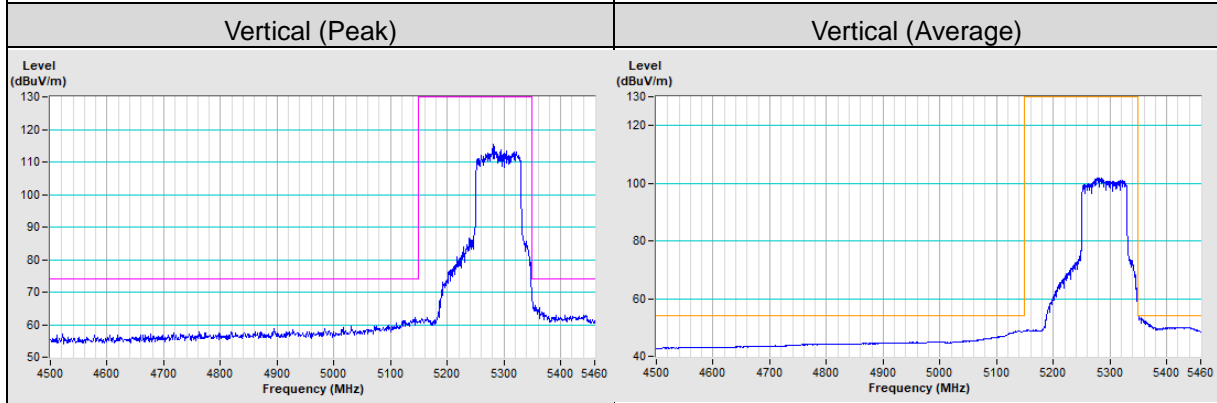
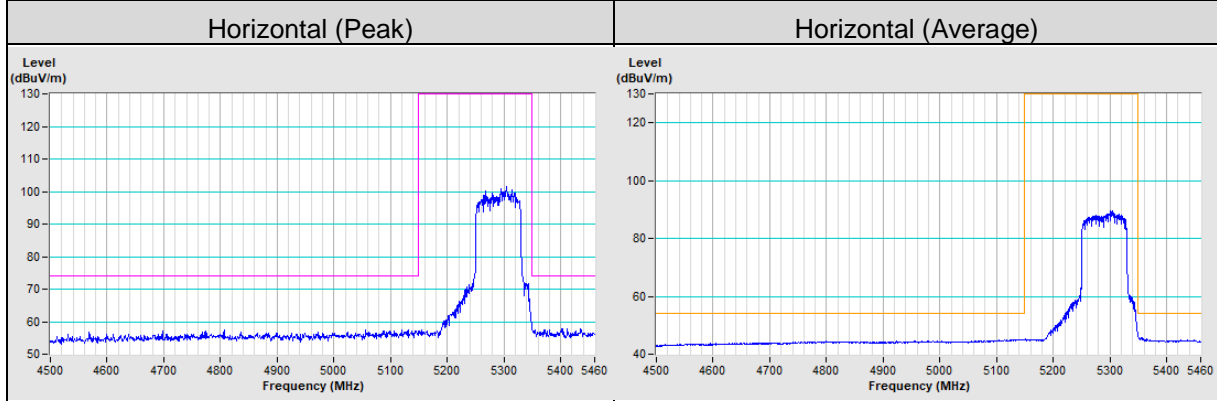
802.11ax (HE40) Channel 142



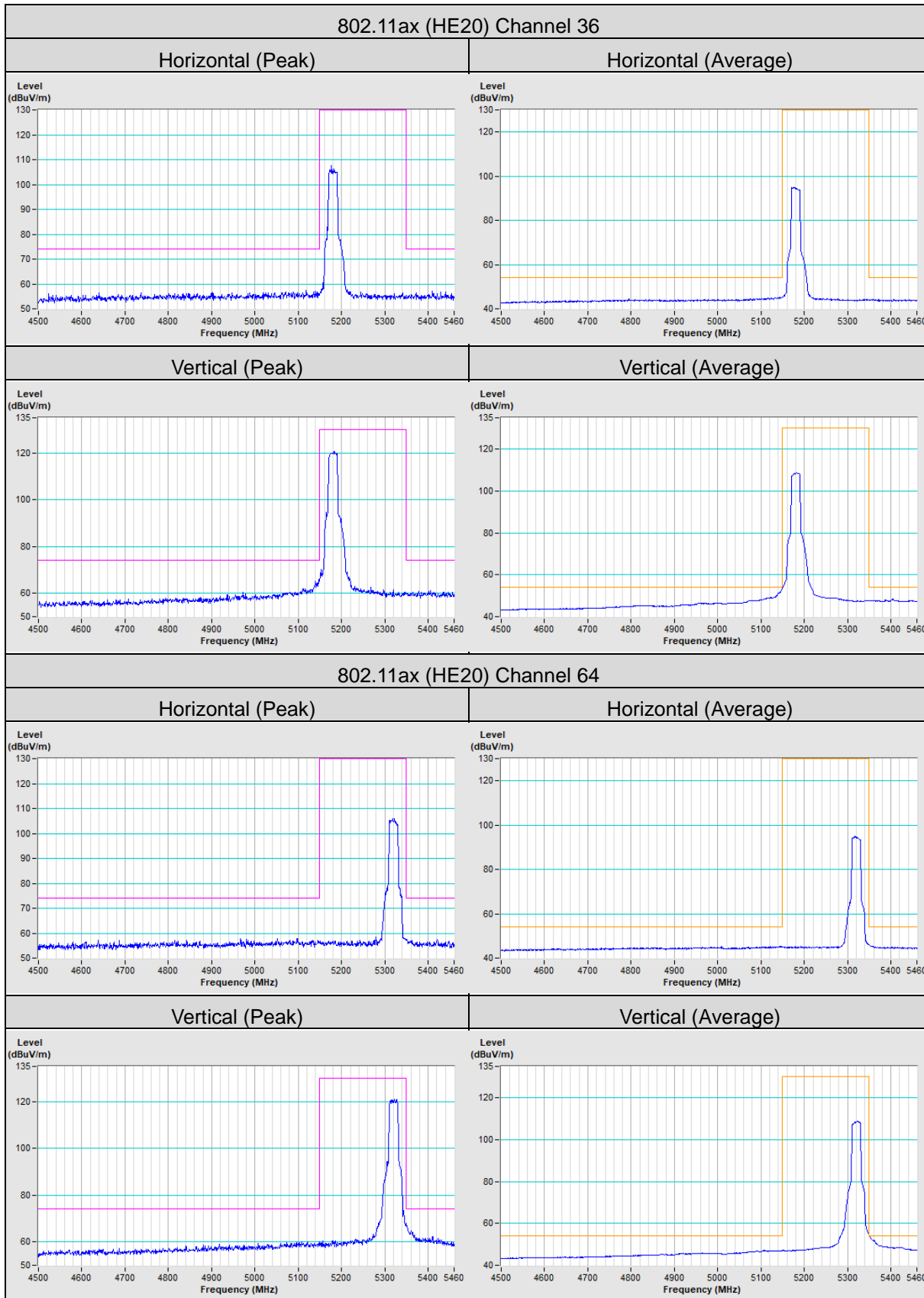
802.11ax (HE80) Channel 42



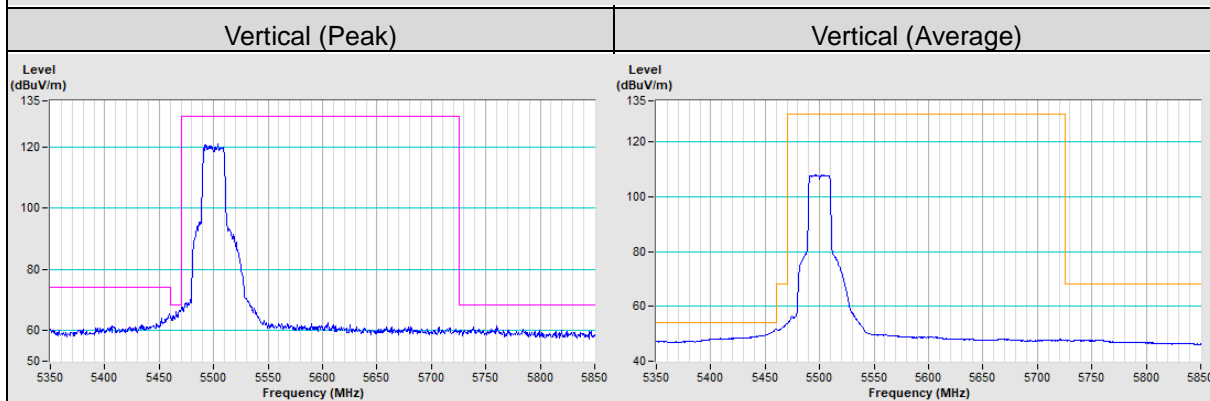
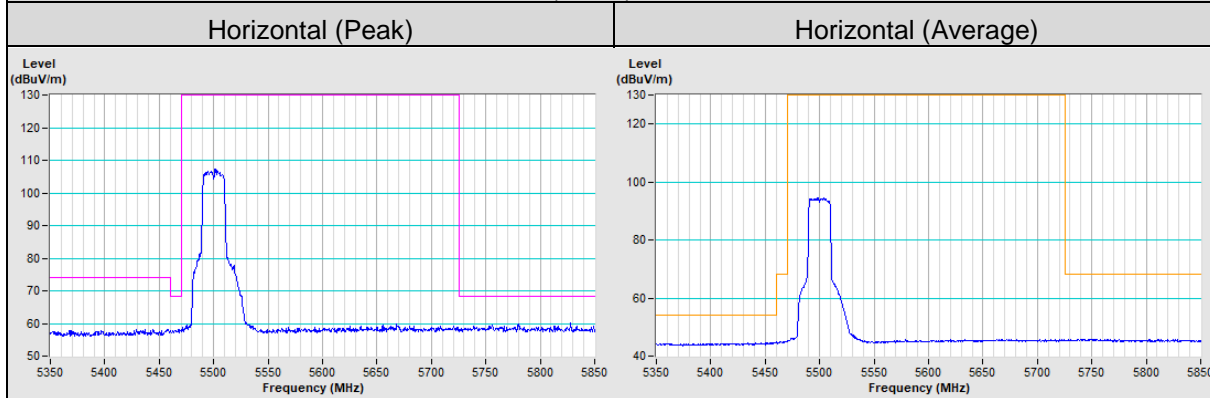
802.11ax (HE80) Channel 58



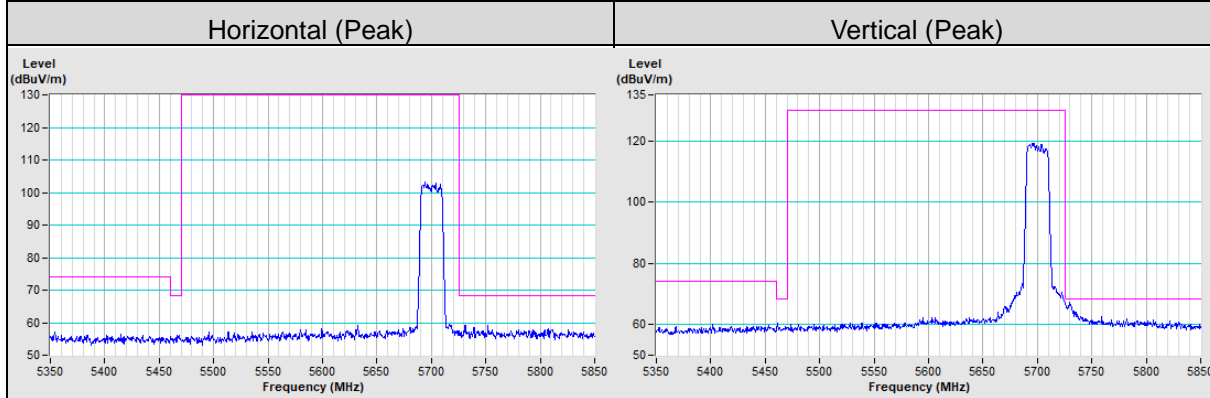
Mode B



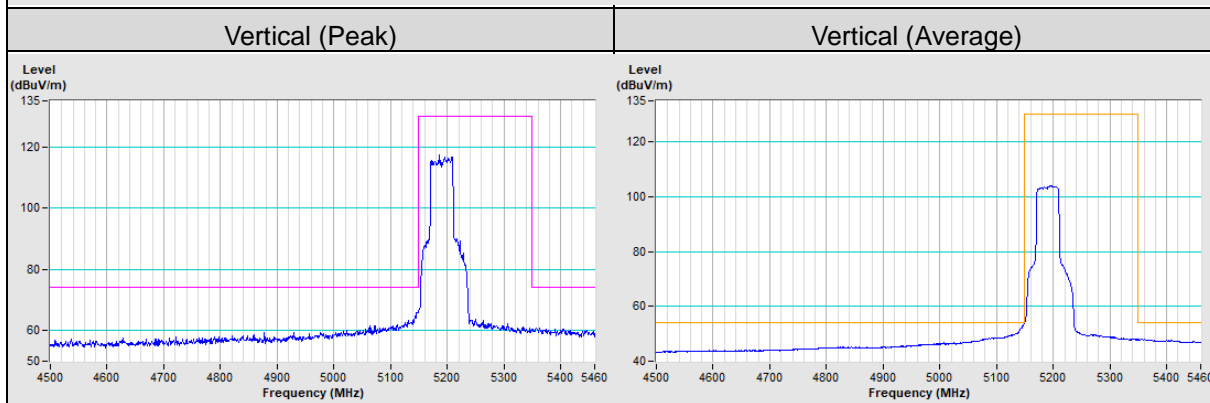
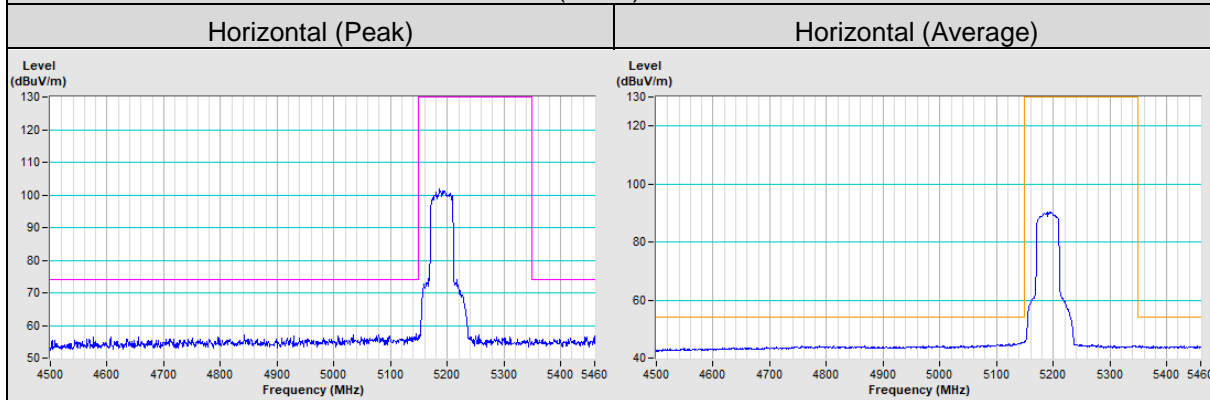
802.11ax (HE20) Channel 100



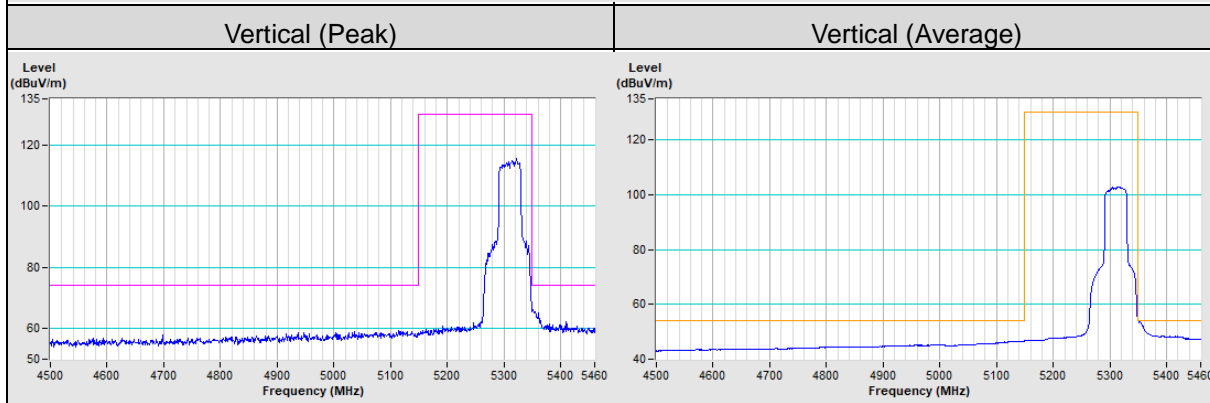
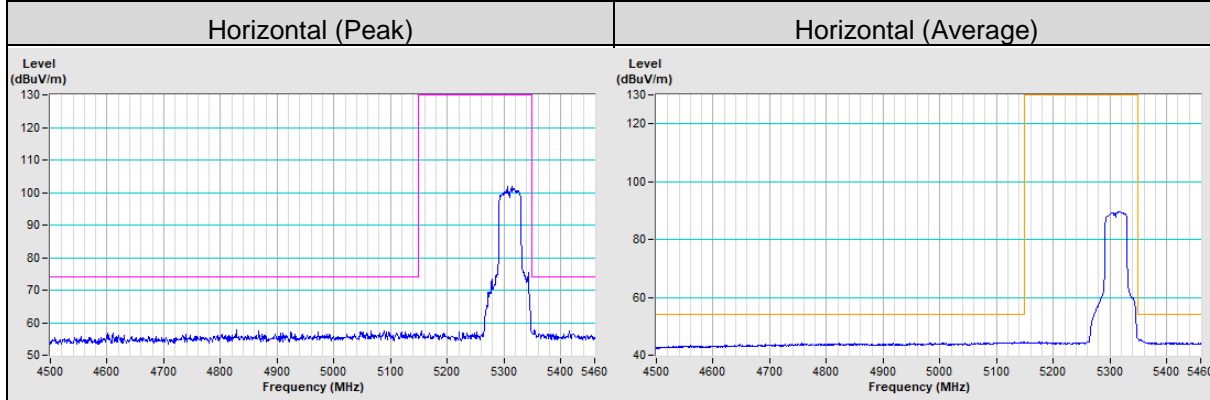
802.11ax (HE20) Channel 140



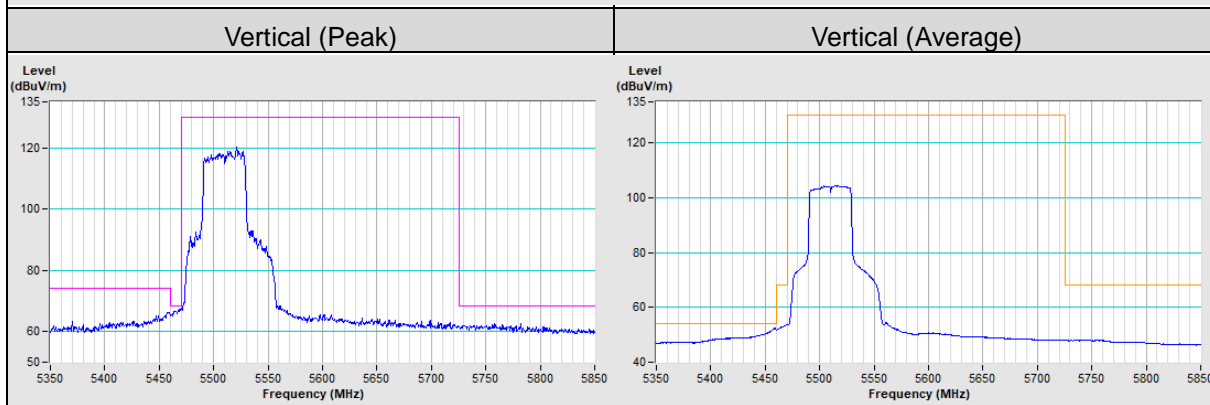
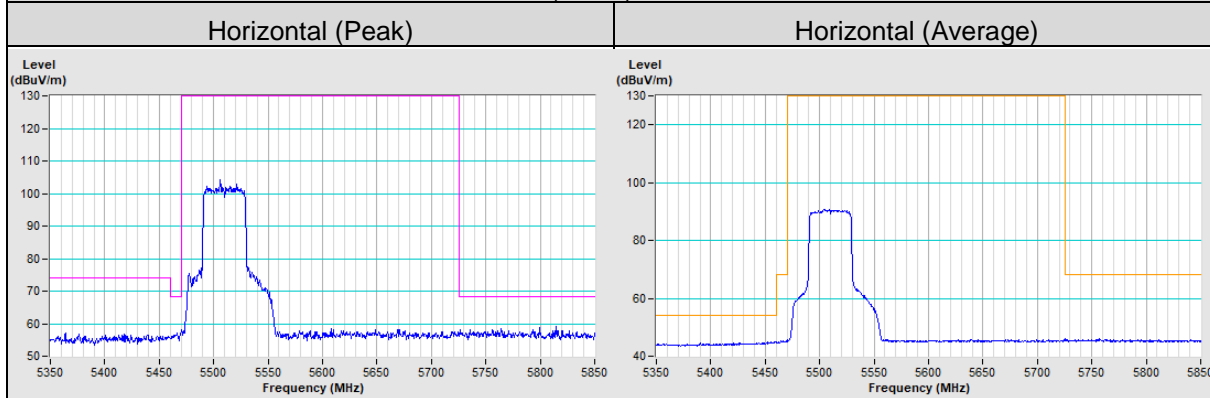
802.11ax (HE40) Channel 38



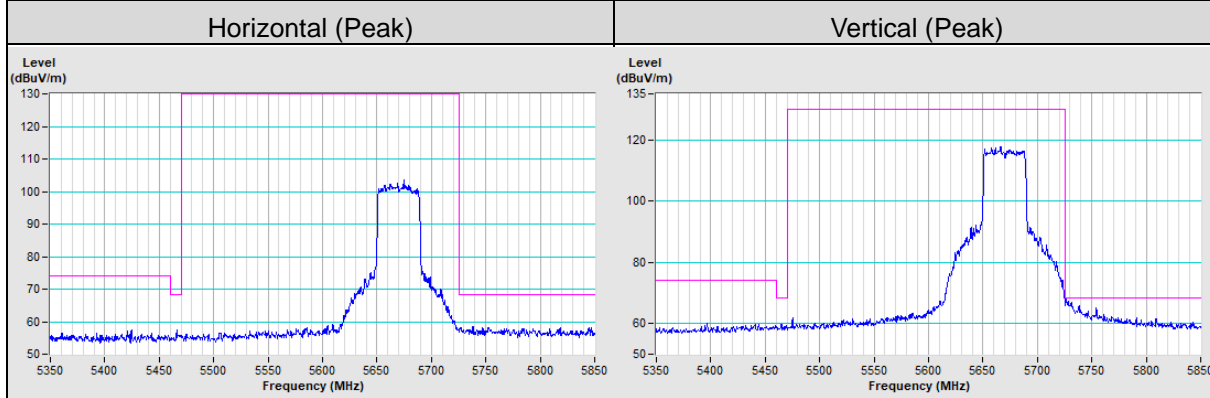
802.11ax (HE40) Channel 62

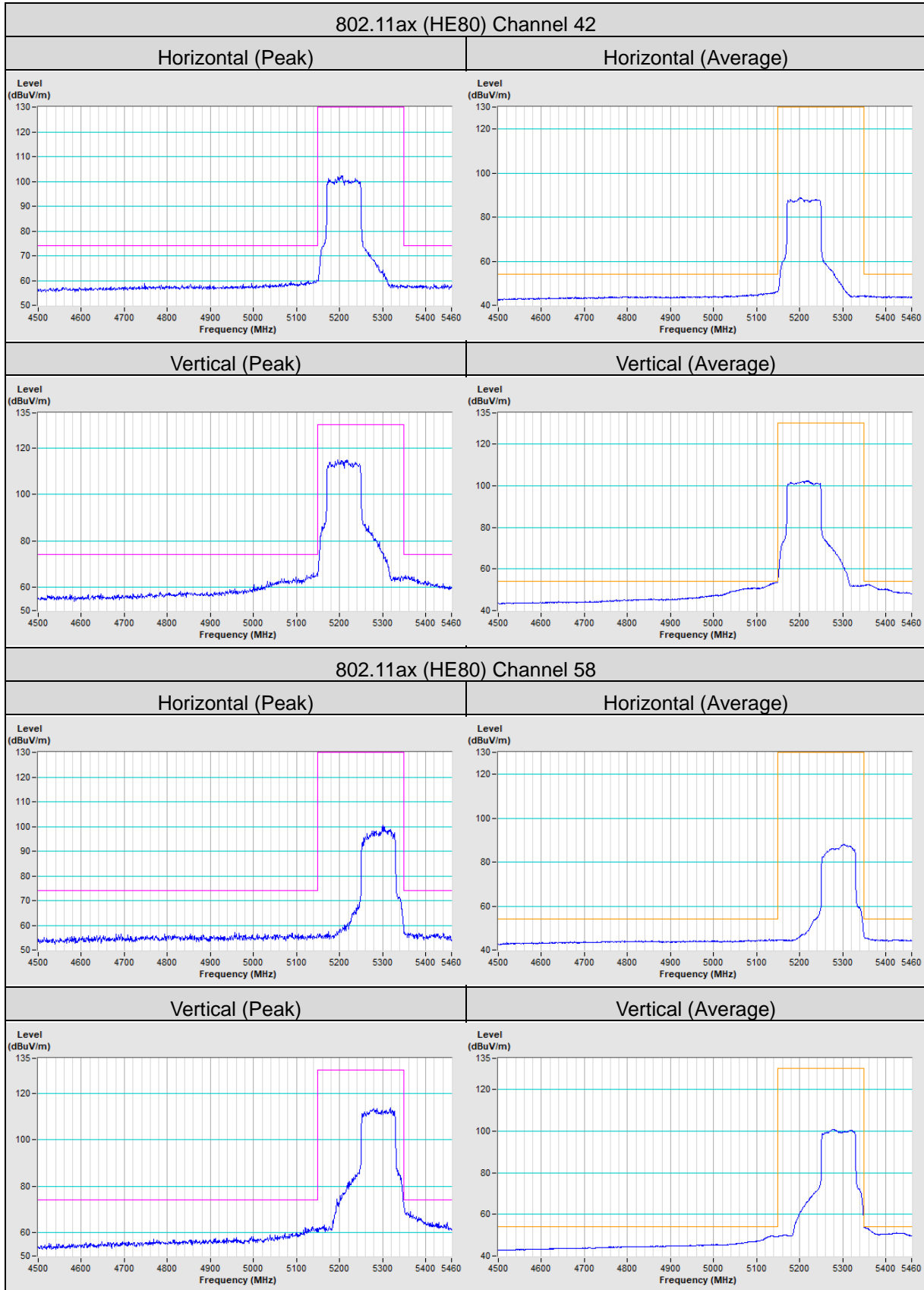


802.11ax (HE40) Channel 102

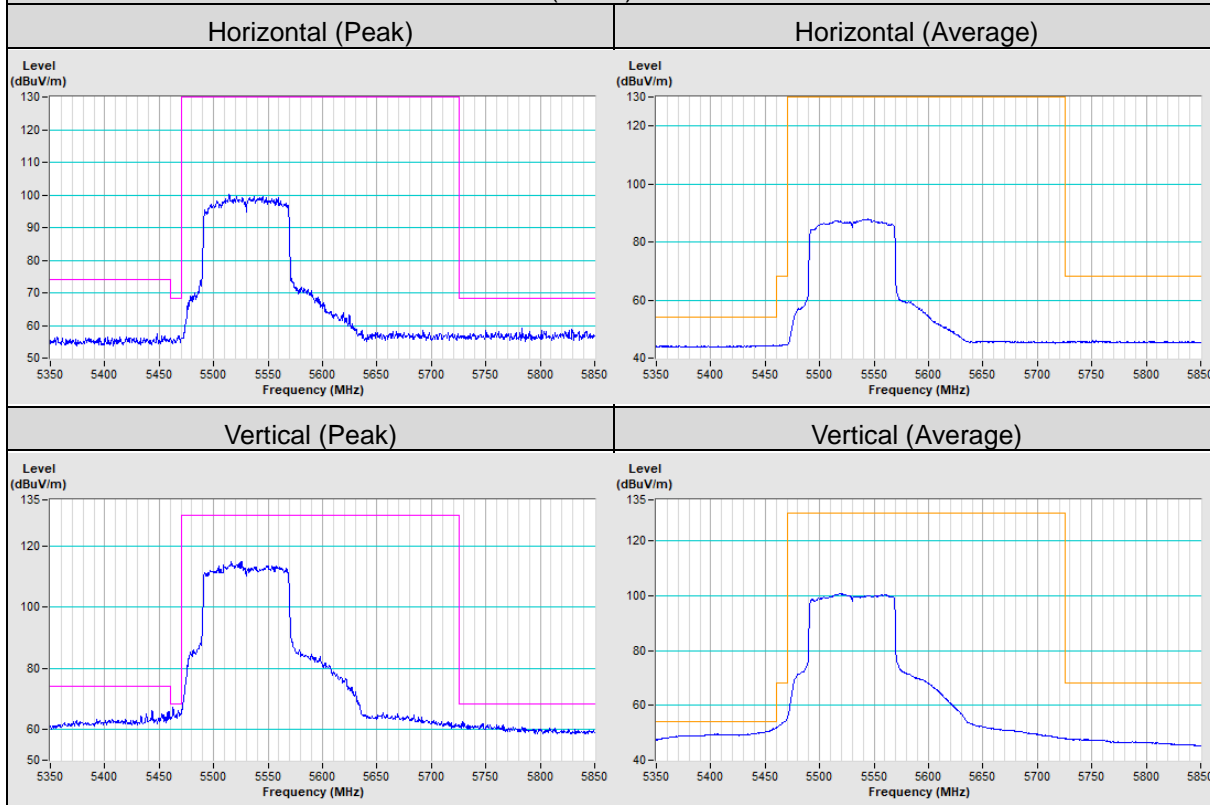


802.11ax (HE40) Channel 134

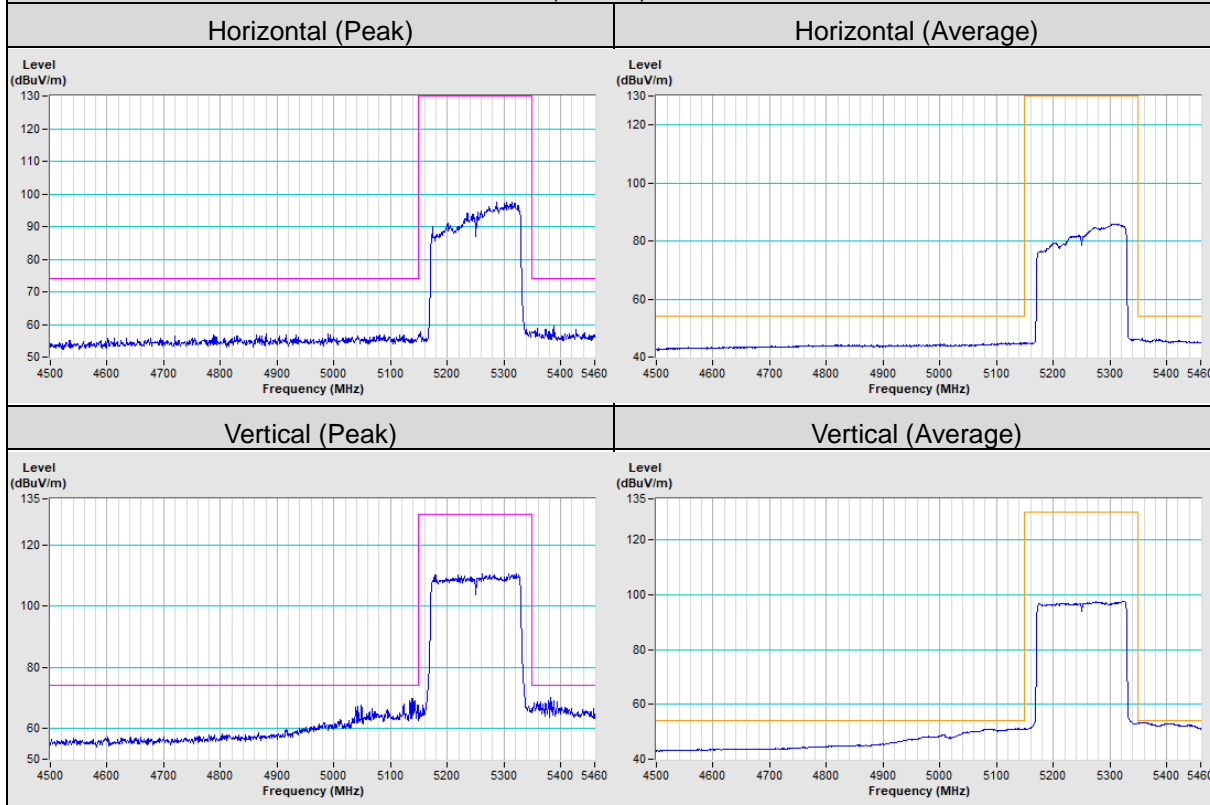




802.11ax (HE80) Channel 106



802.11ax (HE160) Channel 50



Appendix – Information of the Testing Laboratories

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

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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