

FCC Test Report

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Test Model: MT7922A22M

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Table of Contents

Release Control Record	4
1 Certificate of Conformity.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information.....	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	10
3.2.1 Test Mode Applicability and Tested Channel Detail.....	12
3.3 Duty Cycle of Test Signal	17
3.4 Description of Support Units	18
3.4.1 Configuration of System under Test	18
3.5 General Description of Applied Standards and References	18
4 Test Types and Results	19
4.1 Radiated Emission and Bandedge Measurement.....	19
4.1.1 Limits of Radiated Emission and Bandedge Measurement	19
4.1.2 Test Instruments	20
4.1.3 Test Procedures.....	21
4.1.4 Deviation from Test Standard	22
4.1.5 Test Setup.....	22
4.1.6 EUT Operating Conditions.....	23
4.1.7 Test Results	24
4.2 Conducted Emission Measurement	84
4.2.1 Limits of Conducted Emission Measurement	84
4.2.2 Test Instruments	84
4.2.3 Test Procedures.....	85
4.2.4 Deviation from Test Standard	85
4.2.5 Test Setup.....	85
4.2.6 EUT Operating Conditions.....	85
4.2.7 Test Results	86
4.3 Transmit Power Measurement	88
4.3.1 Limits of Transmit Power Measurement	88
4.3.2 Test Setup.....	88
4.3.3 Test Instruments	88
4.3.4 Test Procedure	89
4.3.5 Deviation from Test Standard	89
4.3.6 EUT Operating Conditions.....	89
4.3.7 Test Result.....	90
4.4 Occupied Bandwidth Measurement	109
4.4.1 Test Setup.....	109
4.4.2 Test Instruments	109
4.4.3 Test Procedure	109
4.4.4 Test Result.....	110
4.5 Peak Power Spectral Density Measurement	118
4.5.1 Limits of Peak Power Spectral Density Measurement	118
4.5.2 Test Setup.....	118
4.5.3 Test Instruments	118
4.5.4 Test Procedures.....	118
4.5.5 Deviation from Test Standard	119
4.5.6 EUT Operating Conditions.....	119
4.5.7 Test Results	120
4.6 Frequency Stability.....	131
4.6.1 Limits of Frequency Stability Measurement	131

4.6.2	Test Setup	131
4.6.3	Test Instruments	131
4.6.4	Test Procedure	131
4.6.5	Deviation from Test Standard	132
4.6.6	EUT Operating Condition	132
4.6.7	Test Results	132
4.7	6dB Bandwidth Measurement	133
4.7.1	Limits of 6dB Bandwidth Measurement	133
4.7.2	Test Setup	133
4.7.3	Test Instruments	133
4.7.4	Test Procedure	133
4.7.5	Deviation from Test Standard	133
4.7.6	EUT Operating Condition	133
4.7.7	Test Results	134
5	Pictures of Test Arrangements	136
	Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)	137
	Annex B - Band Edge Measurement	142
	Appendix – Information of the Testing Laboratories	162

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21030485-5	Original release	May 21, 2021

1 Certificate of Conformity

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

Brand: MediaTek

Test Model: MT7922A22M

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: Mar. 22 ~ May 06, 2021

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** May 21, 2021
Celine Chou / Senior Specialist

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.84dB at 0.20523MHz.
15.407(b)(1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.1dB at 5466.60MHz, 5148.50MHz, 5725.00MHz and 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A22M
Sample Status	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	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 1733.3Mbps 802.11ax: up to 2401.9Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5180 ~ 5250MHz: 197.711mW 5250 ~ 5320MHz: 195.456mW 5500 ~ 5720MHz: 208.264mW 5745 ~ 5825MHz: 250.930mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Cable Supplied	NA

Note:

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

Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/996*2)	2TX	2RX

* 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)

* For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

2. The following antennas were provided to the EUT.

Ant. No.	RF Chain No.	Brand	Model	Antenna Gain (dBi)	Frequency Range (GHz)	Ant. Type	Connector Type
1	Chain 0	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex (MHF)
2	Chain 1	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex (MHF)
3	Chain 0	PSA	RFMTA311020 EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex (MHF)
4	Chain 1	PSA	RFMTA311020 EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex (MHF)

* Ant. 1 and Ant. 2 were the worst case and for final test.

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

3. There are Bluetooth and WLAN (2.4GHz & 5GHz) technology used for the EUT.

4. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth

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

3.2 Description of Test Modes

For 5180 ~ 5320MHz:

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

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

Channel	Frequency
50	5250MHz

For 5500 ~ 5720MHz:

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

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

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

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

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

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

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

Channel	Frequency
114	5570MHz

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

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

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
- Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	MCS0

Radiated Emission Test (Below 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	165	OFDM	6.0
-	802.11a	5250-5320	52 to 64		OFDM	6.0
-	802.11a	5500-5720	100 to 144		OFDM	6.0
-	802.11a	5745-5825	149 to 165		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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	165	OFDM	6.0
-	802.11a	5250-5320	52 to 64		OFDM	6.0
-	802.11a	5500-5720	100 to 144		OFDM	6.0
-	802.11a	5745-5825	149 to 165		OFDM	6.0

Bandwidth, Power Spectral Density and Frequency Stability 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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	MCS0

Transmit Power Measurement:

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
	802.11ac (VHT160)		50	50	OFDM	58.5
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
	802.11ac (VHT160)		50	50	OFDM	58.5
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
	802.11ac (VHT160)		114	114	OFDM	58.5
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	MCS0

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE $\geq$ 1G	25 deg. C, 70% RH	120Vac, 60Hz	Luis Lee
RE<1G	21 deg. C, 64% RH	120Vac, 60Hz	Luis Lee
PLC	25 deg. C, 70% RH	120Vac, 60Hz	Rex Wang
APCM	25 deg. C, 70% RH	120Vac, 60Hz	Dalen Dai

3.3 Duty Cycle of Test Signal

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

802.11a: Duty cycle = $1.385/1.625 = 0.852$, Duty factor = $10 * \log(1/0.852) = 0.69$

802.11ax (HE20)_Full RU: Duty cycle = $3.875/4.235 = 0.915$, Duty factor = $10 * \log(1/0.915) = 0.39$

802.11ax (HE40)_Full RU: Duty cycle = $3.775/4.255 = 0.887$, Duty factor = $10 * \log(1/0.887) = 0.52$

802.11ax (HE80)_Full RU: Duty cycle = $1.837/2.322 = 0.791$, Duty factor = $10 * \log(1/0.791) = 1.02$

802.11ax (HE160)_Full RU: Duty cycle = $0.955/1.430 = 0.668$, Duty factor = $10 * \log(1/0.668) = 1.75$

Spectrum Plot of Worst Value



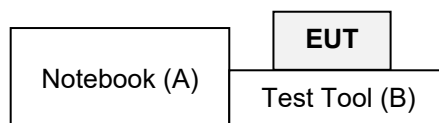
3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Test Tool	Media Tek	MTK1849	N/A	N/A	Provided by manufacturer

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

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

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

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10:2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2020	Dec. 30, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 13, 2020	Jul. 12, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

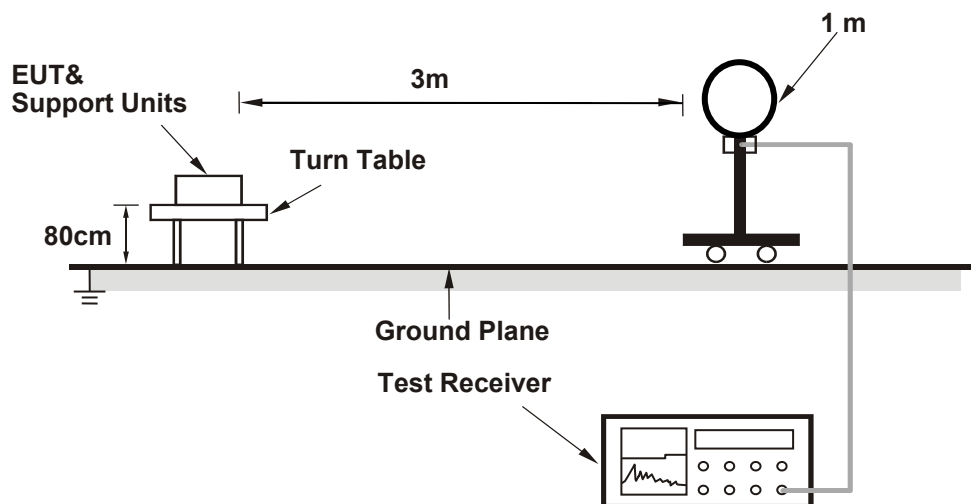
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz. (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20)_RU26, RU52, RU106 and Full RU: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE160): RBW = 1MHz, VBW = 3kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

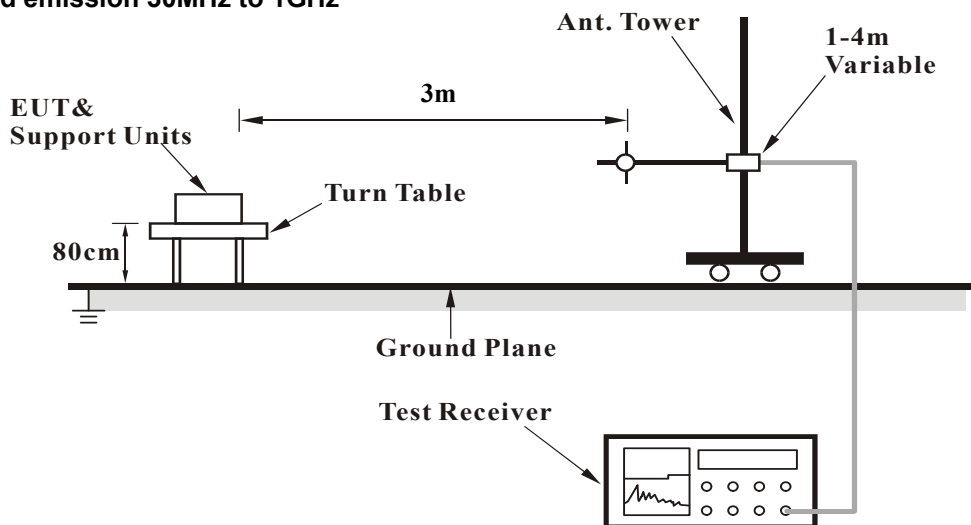
No deviation.

4.1.5 Test Setup

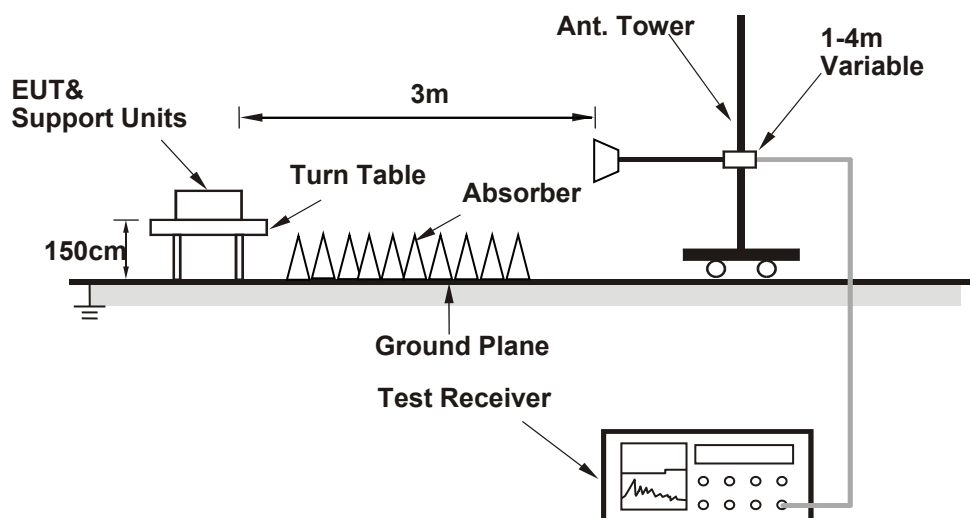
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.50	64.4 PK	74.0	-9.6	2.36 H	220	61.1	3.3
2	5147.50	52.3 AV	54.0	-1.7	2.36 H	220	49.0	3.3
3	*5180.00	118.8 PK			2.36 H	220	78.0	40.8
4	*5180.00	110.1 AV			2.36 H	220	69.3	40.8
5	#10360.00	58.3 PK	68.2	-9.9	2.46 H	202	50.3	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.50	70.1 PK	74.0	-3.9	1.00 V	182	66.8	3.3
2	5147.50	53.6 AV	54.0	-0.4	1.00 V	182	50.3	3.3
3	*5180.00	120.5 PK			1.00 V	182	79.7	40.8
4	*5180.00	111.6 AV			1.00 V	182	70.8	40.8
5	#10360.00	58.5 PK	68.2	-9.7	1.11 V	284	50.4	8.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	5147.70	62.5 PK	74.0	-11.5	2.38 H	229	59.2	3.3
2	5147.70	50.1 AV	54.0	-3.9	2.38 H	229	46.8	3.3
3	*5200.00	120.0 PK			2.38 H	229	79.2	40.8
4	*5200.00	110.9 AV			2.38 H	229	70.1	40.8
5	#10400.00	58.7 PK	68.2	-9.5	2.33 H	214	50.6	8.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.70	67.0 PK	74.0	-7.0	1.10 V	182	63.7	3.3
2	5147.70	53.6 AV	54.0	-0.4	1.10 V	182	50.3	3.3
3	*5200.00	122.2 PK			1.10 V	182	81.4	40.8
4	*5200.00	113.1 AV			1.10 V	182	72.3	40.8
5	#10400.00	60.2 PK	68.2	-8.0	1.13 V	285	52.1	8.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.3 PK			2.37 H	225	76.5	40.8
2	*5240.00	109.4 AV			2.37 H	225	68.6	40.8
3	5350.00	57.1 PK	74.0	-16.9	2.37 H	225	54.2	2.9
4	5350.00	46.7 AV	54.0	-7.3	2.37 H	225	43.8	2.9
5	#10480.00	58.1 PK	68.2	-10.1	2.29 H	254	50.3	7.8
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	*5240.00	119.6 PK			1.03 V	182	78.8	40.8
2	*5240.00	111.6 AV			1.03 V	182	70.8	40.8
3	5350.00	57.8 PK	74.0	-16.2	1.03 V	182	54.9	2.9
4	5350.00	47.1 AV	54.0	-6.9	1.03 V	182	44.2	2.9
5	#10480.00	59.6 PK	68.2	-8.6	1.15 V	285	51.8	7.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	57.6 PK	74.0	-16.4	2.34 H	216	54.3	3.3
2	5150.00	46.4 AV	54.0	-7.6	2.34 H	216	43.1	3.3
3	*5260.00	121.3 PK			2.34 H	216	80.5	40.8
4	*5260.00	112.0 AV			2.34 H	216	71.2	40.8
5	#10520.00	57.1 PK	68.2	-11.1	2.10 H	185	49.4	7.7
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	58.1 PK	74.0	-15.9	1.07 V	191	54.8	3.3
2	5150.00	46.6 AV	54.0	-7.4	1.07 V	191	43.3	3.3
3	*5260.00	122.6 PK			1.07 V	191	81.8	40.8
4	*5260.00	113.1 AV			1.07 V	191	72.3	40.8
5	#10520.00	59.6 PK	68.2	-8.6	1.14 V	286	51.9	7.7

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 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	121.7 PK			2.35 H	216	80.9	40.8
2	*5300.00	112.0 AV			2.35 H	216	71.2	40.8
3	5350.00	62.2 PK	74.0	-11.8	2.35 H	216	59.3	2.9
4	5350.00	51.3 AV	54.0	-2.7	2.35 H	216	48.4	2.9
5	10600.00	56.0 PK	74.0	-18.0	2.41 H	215	48.2	7.8
6	10600.00	44.8 AV	54.0	-9.2	2.41 H	215	37.0	7.8
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	122.1 PK			1.05 V	191	81.3	40.8
2	*5300.00	112.4 AV			1.05 V	191	71.6	40.8
3	5350.00	65.4 PK	74.0	-8.6	1.05 V	191	62.5	2.9
4	5350.00	53.2 AV	54.0	-0.8	1.05 V	191	50.3	2.9
5	10600.00	56.1 PK	74.0	-17.9	2.14 V	186	48.3	7.8
6	10600.00	45.0 AV	54.0	-9.0	2.14 V	186	37.2	7.8

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	119.5 PK			2.32 H	219	78.8	40.7
2	*5320.00	110.7 AV			2.32 H	219	70.0	40.7
3	5351.00	64.6 PK	74.0	-9.4	2.32 H	219	61.7	2.9
4	5351.00	53.3 AV	54.0	-0.7	2.32 H	219	50.4	2.9
5	10640.00	56.5 PK	74.0	-17.5	2.44 H	210	48.5	8.0
6	10640.00	45.5 AV	54.0	-8.5	2.44 H	210	37.5	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	119.2 PK			1.06 V	201	78.5	40.7
2	*5320.00	110.8 AV			1.06 V	201	70.1	40.7
3	5351.00	64.7 PK	74.0	-9.3	1.06 V	201	61.8	2.9
4	5351.00	53.5 AV	54.0	-0.5	1.06 V	201	50.6	2.9
5	10640.00	56.8 PK	74.0	-17.2	1.53 V	188	48.8	8.0
6	10640.00	45.6 AV	54.0	-8.4	1.53 V	188	37.6	8.0

Remarks:

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

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	60.8 PK	74.0	-13.2	2.45 H	217	57.8	3.0
2	5460.00	47.7 AV	54.0	-6.3	2.45 H	217	44.7	3.0
3	#5466.60	68.1 PK	68.2	-0.1	2.45 H	217	65.1	3.0
4	*5500.00	118.7 PK			2.45 H	217	77.5	41.2
5	*5500.00	108.7 AV			2.45 H	217	67.5	41.2
6	11000.00	54.9 PK	74.0	-19.1	2.56 H	227	47.4	7.5
7	11000.00	44.4 AV	54.0	-9.6	2.56 H	227	36.9	7.5
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	5460.00	60.2 PK	74.0	-13.8	1.12 V	191	57.2	3.0
2	5460.00	49.3 AV	54.0	-4.7	1.12 V	191	46.3	3.0
3	#5470.00	67.0 PK	68.2	-1.2	1.12 V	191	64.0	3.0
4	*5500.00	118.3 PK			1.12 V	191	77.1	41.2
5	*5500.00	109.9 AV			1.12 V	191	68.7	41.2
6	11000.00	55.1 PK	74.0	-18.9	1.52 V	188	47.6	7.5
7	11000.00	44.4 AV	54.0	-9.6	1.52 V	188	36.9	7.5

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 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.5 PK			2.35 H	214	78.1	41.4
2	*5580.00	110.4 AV			2.35 H	214	69.0	41.4
3	11160.00	57.0 PK	74.0	-17.0	2.49 H	200	48.5	8.5
4	11160.00	45.8 AV	54.0	-8.2	2.49 H	200	37.3	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	*5580.00	120.8 PK			1.17 V	192	79.4	41.4
2	*5580.00	111.7 AV			1.17 V	192	70.3	41.4
3	11160.00	57.2 PK	74.0	-16.8	1.61 V	182	48.7	8.5
4	11160.00	46.1 AV	54.0	-7.9	1.61 V	182	37.6	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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.8 PK			2.32 H	219	74.8	42.0
2	*5700.00	108.2 AV			2.32 H	219	66.2	42.0
3	#5725.00	67.3 PK	68.2	-0.9	2.32 H	219	63.2	4.1
4	11400.00	54.8 PK	74.0	-19.2	2.49 H	203	46.4	8.4
5	11400.00	43.8 AV	54.0	-10.2	2.49 H	203	35.4	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	*5700.00	117.1 PK			1.09 V	191	75.1	42.0
2	*5700.00	109.1 AV			1.09 V	191	67.1	42.0
3	#5725.00	68.0 PK	68.2	-0.2	1.09 V	191	63.9	4.1
4	11400.00	55.1 PK	74.0	-18.9	1.42 V	193	46.7	8.4
5	11400.00	44.9 AV	54.0	-9.1	1.42 V	193	36.5	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. " * ": 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	59.4 PK	68.2	-8.8	2.40 H	219	56.4	3.0
2	*5720.00	121.1 PK			2.40 H	219	79.0	42.1
3	*5720.00	112.0 AV			2.40 H	219	69.9	42.1
4	#5850.00	61.9 PK	68.2	-6.3	2.40 H	219	57.5	4.4
5	11440.00	55.3 PK	74.0	-18.7	2.49 H	231	46.9	8.4
6	11440.00	43.6 AV	54.0	-10.4	2.49 H	231	35.2	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	#5470.00	59.9 PK	68.2	-8.3	1.00 V	184	56.9	3.0
2	*5720.00	113.3 PK			1.00 V	184	71.2	42.1
3	*5720.00	112.1 AV			1.00 V	184	70.0	42.1
4	#5850.00	62.2 PK	68.2	-6.0	1.00 V	184	57.8	4.4
5	11440.00	55.6 PK	74.0	-18.4	1.63 V	199	47.2	8.4
6	11440.00	44.6 AV	54.0	-9.4	1.63 V	199	36.2	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.

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	#5608.00	59.6 PK	68.2	-8.6	2.32 H	223	56.1	3.5
2	*5745.00	120.3 PK			2.32 H	223	116.2	4.1
3	*5745.00	110.0 AV			2.32 H	223	105.9	4.1
4	#5943.60	61.7 PK	68.2	-6.5	2.32 H	223	57.2	4.5
5	11490.00	60.8 PK	74.0	-13.2	2.01 H	198	52.3	8.5
6	11490.00	47.6 AV	54.0	-6.4	2.01 H	198	39.1	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	#5644.80	63.0 PK	68.2	-5.2	1.12 V	175	59.2	3.8
2	*5745.00	120.9 PK			1.12 V	175	116.8	4.1
3	*5745.00	110.2 AV			1.12 V	175	106.1	4.1
4	#5981.20	62.4 PK	68.2	-5.8	1.12 V	175	57.8	4.6
5	11490.00	61.1 PK	74.0	-12.9	1.51 V	180	52.6	8.5
6	11490.00	48.2 AV	54.0	-5.8	1.51 V	180	39.7	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 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	#5637.60	61.0 PK	68.2	-7.2	2.37 H	225	57.2	3.8
2	*5785.00	119.2 PK			2.37 H	225	76.7	42.5
3	*5785.00	109.8 AV			2.37 H	225	67.3	42.5
4	#5942.40	62.4 PK	68.2	-5.8	2.37 H	225	57.9	4.5
5	11570.00	60.4 PK	74.0	-13.6	1.97 H	196	51.6	8.8
6	11570.00	47.3 AV	54.0	-6.7	1.97 H	196	38.5	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	#5611.20	62.1 PK	68.2	-6.1	1.00 V	185	58.6	3.5
2	*5785.00	120.0 PK			1.00 V	185	115.7	4.3
3	*5785.00	109.8 AV			1.00 V	185	105.5	4.3
4	#5934.40	63.3 PK	68.2	-4.9	1.00 V	185	58.8	4.5
5	11570.00	60.8 PK	74.0	-13.2	1.43 V	178	52.0	8.8
6	11570.00	48.0 AV	54.0	-6.0	1.43 V	178	39.2	8.8

Remarks:

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

RF Mode	TX 802.11a	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	#5647.60	60.5 PK	68.2	-7.7	2.45 H	219	56.7	3.8
2	*5825.00	120.5 PK			2.45 H	219	77.9	42.6
3	*5825.00	110.3 AV			2.45 H	219	67.7	42.6
4	#5953.20	61.9 PK	68.2	-6.3	2.45 H	219	57.3	4.6
5	11650.00	60.2 PK	74.0	-13.8	1.98 H	202	51.4	8.8
6	11650.00	47.4 AV	54.0	-6.6	1.98 H	202	38.6	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	60.8 PK	68.2	-7.4	1.02 V	187	57.0	3.8
2	*5825.00	120.3 PK			1.02 V	187	77.7	42.6
3	*5825.00	109.9 AV			1.02 V	187	67.3	42.6
4	#5946.40	62.8 PK	68.2	-5.4	1.02 V	187	58.2	4.6
5	11650.00	60.7 PK	74.0	-13.3	1.51 V	182	51.9	8.8
6	11650.00	48.1 AV	54.0	-5.9	1.51 V	182	39.3	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5136.05	73.5 PK	74.0	-0.5	2.57 H	214	70.3	3.2
2	5136.05	50.9 AV	54.0	-3.1	2.57 H	214	47.7	3.2
3	*5180.00	126.1 PK			2.57 H	214	85.3	40.8
4	*5180.00	114.9 AV			2.57 H	214	74.1	40.8
5	#10360.00	66.2 PK	68.2	-2.0	3.02 H	216	58.2	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5136.50	73.3 PK	74.0	-0.7	1.25 V	174	70.1	3.2
2	5136.50	50.7 AV	54.0	-3.3	1.25 V	174	47.5	3.2
3	*5180.00	128.3 PK			1.25 V	174	87.5	40.8
4	*5180.00	117.6 AV			1.25 V	174	76.8	40.8
5	#10360.00	67.2 PK	68.2	-1.0	2.51 V	226	59.2	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	125.0 PK			2.59 H	212	84.3	40.7
2	*5320.00	115.2 AV			2.59 H	212	74.5	40.7
3	5361.30	73.4 PK	74.0	-0.6	2.59 H	212	70.6	2.8
4	5361.30	49.1 AV	54.0	-4.9	2.59 H	212	46.3	2.8
5	10640.00	60.5 PK	74.0	-13.5	2.83 H	218	52.5	8.0
6	10640.00	50.9 AV	54.0	-3.1	2.83 H	218	42.9	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	128.4 PK			1.22 V	186	87.7	40.7
2	*5320.00	116.0 AV			1.22 V	186	75.3	40.7
3	5361.30	71.5 PK	74.0	-2.5	1.22 V	186	68.7	2.8
4	5361.30	50.0 AV	54.0	-4.0	1.22 V	186	47.2	2.8
5	10640.00	60.3 PK	74.0	-13.7	2.55 V	230	52.3	8.0
6	10640.00	50.8 AV	54.0	-3.2	2.55 V	230	42.8	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	71.1 PK	74.0	-2.9	2.37 H	219	68.1	3.0
2	5460.00	48.6 AV	54.0	-5.4	2.37 H	219	45.6	3.0
3	#5461.70	67.6 PK	68.2	-0.6	2.37 H	219	64.6	3.0
4	*5500.00	129.0 PK			2.37 H	219	87.8	41.2
5	*5500.00	117.8 AV			2.37 H	219	76.6	41.2
6	11000.00	61.7 PK	74.0	-12.3	2.28 H	220	54.2	7.5
7	11000.00	52.0 AV	54.0	-2.0	2.28 H	220	44.5	7.5
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	5460.00	61.2 PK	74.0	-12.8	1.11 V	188	58.2	3.0
2	5460.00	48.9 AV	54.0	-5.1	1.11 V	188	45.9	3.0
3	#5461.70	66.5 PK	68.2	-1.7	1.11 V	188	63.5	3.0
4	*5500.00	126.0 PK			1.11 V	188	84.8	41.2
5	*5500.00	116.0 AV			1.11 V	188	74.8	41.2
6	11000.00	61.5 PK	74.0	-12.5	2.56 V	227	54.0	7.5
7	11000.00	51.3 AV	54.0	-2.7	2.56 V	227	43.8	7.5

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) RU26	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	124.6 PK			2.47 H	235	82.6	42.0
2	*5700.00	113.9 AV			2.47 H	235	71.9	42.0
3	#5725.90	67.6 PK	68.2	-0.6	2.47 H	235	63.5	4.1
4	11400.00	60.5 PK	74.0	-13.5	2.21 H	217	52.1	8.4
5	11400.00	50.7 AV	54.0	-3.3	2.21 H	217	42.3	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	*5700.00	123.5 PK			1.19 V	197	81.5	42.0
2	*5700.00	112.8 AV			1.19 V	197	70.8	42.0
3	#5725.90	65.8 PK	68.2	-2.4	1.19 V	197	61.7	4.1
4	11400.00	60.2 PK	74.0	-13.8	2.56 V	221	51.8	8.4
5	11400.00	50.5 AV	54.0	-3.5	2.56 V	221	42.1	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) RU26	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.40	61.1 PK	68.2	-7.1	2.45 H	246	57.6	3.5
2	*5745.00	125.8 PK			2.45 H	236	83.6	42.2
3	*5745.00	117.5 AV			2.45 H	236	75.3	42.2
4	#5981.60	62.4 PK	68.2	-5.8	2.45 H	246	57.8	4.6
5	11490.00	63.7 PK	74.0	-10.3	2.46 H	189	55.2	8.5
6	11490.00	53.2 AV	54.0	-0.8	2.46 H	189	44.7	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	#5648.80	62.3 PK	68.2	-5.9	1.31 V	170	58.5	3.8
2	*5745.00	126.7 PK			1.31 V	170	84.5	42.2
3	*5745.00	116.5 AV			1.31 V	170	74.3	42.2
4	#5951.60	62.0 PK	68.2	-6.2	1.31 V	170	57.4	4.6
5	11490.00	63.4 PK	74.0	-10.6	2.49 V	221	54.9	8.5
6	11490.00	52.7 AV	54.0	-1.3	2.49 V	221	44.2	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 802.11ax (HE20) RU26	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	61.0 PK	68.2	-7.2	2.29 H	236	57.2	3.8
2	*5825.00	128.5 PK			2.29 H	236	85.9	42.6
3	*5825.00	118.3 AV			2.29 H	236	75.7	42.6
4	#5979.20	61.8 PK	68.2	-6.4	2.29 H	236	57.2	4.6
5	11650.00	64.1 PK	74.0	-9.9	2.56 H	185	55.3	8.8
6	11650.00	53.7 AV	54.0	-0.3	2.56 H	185	44.9	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.40	60.7 PK	68.2	-7.5	1.21 V	189	57.1	3.6
2	*5825.00	127.5 PK			1.21 V	189	84.9	42.6
3	*5825.00	116.9 AV			1.21 V	189	74.3	42.6
4	#5983.20	62.2 PK	68.2	-6.0	1.21 V	189	57.6	4.6
5	11650.00	63.5 PK	74.0	-10.5	2.42 V	236	54.7	8.8
6	11650.00	53.1 AV	54.0	-0.9	2.42 V	236	44.3	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU52	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	126.1 PK			2.47 H	209	85.3	40.8
2	*5240.00	113.8 AV			2.47 H	209	73.0	40.8
3	5350.00	59.6 PK	74.0	-14.4	2.47 H	209	56.7	2.9
4	5350.00	47.3 AV	54.0	-6.7	2.47 H	209	44.4	2.9
5	#10480.00	63.7 PK	68.2	-4.5	3.60 H	191	55.9	7.8
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	*5240.00	127.3 PK			1.15 V	197	86.5	40.8
2	*5240.00	115.6 AV			1.15 V	197	74.8	40.8
3	5350.00	60.4 PK	74.0	-13.6	1.15 V	197	57.5	2.9
4	5350.00	47.6 AV	54.0	-6.4	1.15 V	197	44.7	2.9
5	#10480.00	65.3 PK	68.2	-2.9	1.72 V	163	57.5	7.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU52	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.00	60.3 PK	68.2	-7.9	2.71 H	238	56.7	3.6
2	*5825.00	126.5 PK			2.71 H	238	83.9	42.6
3	*5825.00	114.8 AV			2.71 H	238	72.2	42.6
4	#5992.00	62.2 PK	68.2	-6.0	2.71 H	238	57.5	4.7
5	11650.00	63.9 PK	74.0	-10.1	3.53 H	194	55.1	8.8
6	11650.00	52.4 AV	54.0	-1.6	3.53 H	194	43.6	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.40	61.4 PK	68.2	-6.8	1.19 V	190	57.7	3.7
2	*5825.00	126.3 PK			1.19 V	190	83.7	42.6
3	*5825.00	114.5 AV			1.19 V	190	71.9	42.6
4	#5941.60	63.2 PK	68.2	-5.0	1.19 V	190	58.7	4.5
5	11650.00	64.7 PK	74.0	-9.3	1.70 V	161	55.9	8.8
6	11650.00	53.5 AV	54.0	-0.5	1.70 V	161	44.7	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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20) RU106	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5149.50	73.0 PK	74.0	-1.0	2.52 H	208	69.7	3.3
2	5149.50	48.3 AV	54.0	-5.7	2.52 H	208	45.0	3.3
3	*5180.00	120.5 PK			2.52 H	208	79.7	40.8
4	*5180.00	107.9 AV			2.52 H	208	67.1	40.8
5	#10360.00	59.4 PK	68.2	-8.8	3.57 H	187	51.4	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5148.10	73.6 PK	74.0	-0.4	1.12 V	197	70.3	3.3
2	5148.10	50.4 AV	54.0	-3.6	1.12 V	197	47.1	3.3
3	*5180.00	123.1 PK			1.12 V	197	82.3	40.8
4	*5180.00	110.2 AV			1.12 V	197	69.4	40.8
5	#10360.00	62.5 PK	68.2	-5.7	1.50 V	178	54.5	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU106	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	120.7 PK			2.50 H	209	80.0	40.7
2	*5320.00	108.2 AV			2.50 H	209	67.5	40.7
3	5350.00	71.2 PK	74.0	-2.8	2.50 H	209	68.3	2.9
4	5350.00	49.2 AV	54.0	-4.8	2.50 H	209	46.3	2.9
5	10640.00	59.8 PK	74.0	-14.2	3.61 H	188	51.8	8.0
6	10640.00	50.2 AV	54.0	-3.8	3.61 H	188	42.2	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	122.2 PK			1.09 V	197	81.5	40.7
2	*5320.00	109.6 AV			1.09 V	197	68.9	40.7
3	5353.00	73.6 PK	74.0	-0.4	1.09 V	197	70.7	2.9
4	5353.00	49.7 AV	54.0	-4.3	1.09 V	197	46.8	2.9
5	10640.00	59.6 PK	74.0	-14.4	1.53 V	181	51.6	8.0
6	10640.00	49.8 AV	54.0	-4.2	1.53 V	181	41.8	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU106	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	2.43 H	208	56.1	3.0
2	5460.00	47.6 AV	54.0	-6.4	2.43 H	208	44.6	3.0
3	#5467.30	67.2 PK	68.2	-1.0	2.43 H	208	64.2	3.0
4	*5500.00	120.3 PK			2.43 H	208	79.1	41.2
5	*5500.00	107.4 AV			2.43 H	208	66.2	41.2
6	11000.00	60.4 PK	74.0	-13.6	3.52 H	184	52.9	7.5
7	11000.00	50.1 AV	54.0	-3.9	3.52 H	184	42.6	7.5
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	5460.00	59.3 PK	74.0	-14.7	1.39 V	178	56.3	3.0
2	5460.00	47.8 AV	54.0	-6.2	1.39 V	178	44.8	3.0
3	#5464.60	67.6 PK	68.2	-0.6	1.39 V	178	64.6	3.0
4	*5500.00	120.4 PK			1.39 V	178	79.2	41.2
5	*5500.00	108.7 AV			1.39 V	178	67.5	41.2
6	11000.00	60.2 PK	74.0	-13.8	1.55 V	179	52.7	7.5
7	11000.00	49.9 AV	54.0	-4.1	1.55 V	179	42.4	7.5

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) RU106	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	118.7 PK			2.77 H	239	76.7	42.0
2	*5700.00	106.2 AV			2.77 H	239	64.2	42.0
3	#5728.20	67.9 PK	68.2	-0.3	2.77 H	239	63.8	4.1
4	11400.00	59.8 PK	74.0	-14.2	3.58 H	186	51.4	8.4
5	11400.00	50.0 AV	54.0	-4.0	3.58 H	186	41.6	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	*5700.00	118.2 PK			1.35 V	176	114.2	4.0
2	*5700.00	105.6 AV			1.35 V	176	101.6	4.0
3	#5727.20	67.7 PK	68.2	-0.5	1.35 V	176	63.6	4.1
4	11400.00	59.5 PK	74.0	-14.5	1.50 V	184	51.1	8.4
5	11400.00	49.6 AV	54.0	-4.4	1.50 V	184	41.2	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.

RF Mode	TX 802.11ax (HE20) RU106	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.80	61.3 PK	68.2	-6.9	2.72 H	242	57.8	3.5
2	*5745.00	122.9 PK			2.72 H	242	80.7	42.2
3	*5745.00	110.5 AV			2.72 H	242	68.3	42.2
4	#5956.40	62.7 PK	68.2	-5.5	2.72 H	242	58.1	4.6
5	11490.00	61.1 PK	74.0	-12.9	2.97 H	187	52.6	8.5
6	11490.00	49.2 AV	54.0	-4.8	2.97 H	187	40.7	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	#5634.00	61.7 PK	68.2	-6.5	1.34 V	174	58.0	3.7
2	*5745.00	122.4 PK			1.34 V	174	118.3	4.1
3	*5745.00	109.9 AV			1.34 V	174	105.8	4.1
4	#5971.60	62.5 PK	68.2	-5.7	1.34 V	174	57.9	4.6
5	11490.00	63.1 PK	74.0	-10.9	1.50 V	188	54.6	8.5
6	11490.00	49.9 AV	54.0	-4.1	1.50 V	188	41.4	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) RU106	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.00	61.4 PK	68.2	-6.8	2.75 H	240	57.7	3.7
2	*5825.00	123.1 PK			2.75 H	240	118.7	4.4
3	*5825.00	110.8 AV			2.75 H	240	106.4	4.4
4	#5933.60	62.7 PK	68.2	-5.5	2.75 H	240	58.2	4.5
5	11650.00	61.3 PK	74.0	-12.7	2.99 H	189	52.5	8.8
6	11650.00	49.5 AV	54.0	-4.5	2.99 H	189	40.7	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	#5631.60	61.5 PK	68.2	-6.7	1.38 V	190	57.8	3.7
2	*5825.00	123.3 PK			1.38 V	190	118.9	4.4
3	*5825.00	110.9 AV			1.38 V	190	106.5	4.4
4	#5928.40	63.1 PK	68.2	-5.1	1.38 V	190	58.6	4.5
5	11650.00	63.4 PK	74.0	-10.6	1.48 V	185	54.6	8.8
6	11650.00	50.3 AV	54.0	-3.7	1.48 V	185	41.5	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) _Full RU	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	63.0 PK	74.0	-11.0	2.33 H	218	59.7	3.3
2	5150.00	50.5 AV	54.0	-3.5	2.33 H	218	47.2	3.3
3	*5180.00	118.4 PK			2.33 H	218	77.6	40.8
4	*5180.00	107.5 AV			2.33 H	218	66.7	40.8
5	#10360.00	58.1 PK	68.2	-10.1	2.48 H	210	50.1	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.7 PK	74.0	-10.3	1.22 V	192	60.4	3.3
2	5150.00	53.5 AV	54.0	-0.5	1.22 V	192	50.2	3.3
3	*5180.00	120.9 PK			1.22 V	192	80.1	40.8
4	*5180.00	109.9 AV			1.22 V	192	69.1	40.8
5	#10360.00	58.6 PK	68.2	-9.6	1.12 V	280	50.6	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) _Full RU	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	5149.30	60.0 PK	74.0	-14.0	2.34 H	221	56.7	3.3
2	5149.30	48.5 AV	54.0	-5.5	2.34 H	221	45.2	3.3
3	*5200.00	120.6 PK			2.34 H	221	79.8	40.8
4	*5200.00	109.5 AV			2.34 H	221	68.7	40.8
5	#10400.00	58.7 PK	68.2	-9.5	2.44 H	215	50.6	8.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5149.30	64.0 PK	74.0	-10.0	1.00 V	192	60.7	3.3
2	5149.30	53.5 AV	54.0	-0.5	1.00 V	192	50.2	3.3
3	*5200.00	122.7 PK			1.00 V	192	81.9	40.8
4	*5200.00	111.7 AV			1.00 V	192	70.9	40.8
5	#10400.00	59.7 PK	68.2	-8.5	1.16 V	278	51.6	8.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.0 PK			2.36 H	220	78.2	40.8
2	*5240.00	108.9 AV			2.36 H	220	68.1	40.8
3	5350.00	58.0 PK	74.0	-16.0	2.36 H	220	55.1	2.9
4	5350.00	47.2 AV	54.0	-6.8	2.36 H	220	44.3	2.9
5	#10480.00	59.0 PK	68.2	-9.2	2.40 H	206	51.2	7.8
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	*5240.00	121.2 PK			1.06 V	190	80.4	40.8
2	*5240.00	111.0 AV			1.06 V	190	70.2	40.8
3	5350.00	58.8 PK	74.0	-15.2	1.06 V	190	55.9	2.9
4	5350.00	47.4 AV	54.0	-6.6	1.06 V	190	44.5	2.9
5	#10480.00	59.4 PK	68.2	-8.8	1.19 V	275	51.6	7.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) _Full RU	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	55.6 PK	74.0	-18.4	2.31 H	220	52.3	3.3
2	5150.00	45.4 AV	54.0	-8.6	2.31 H	220	42.1	3.3
3	*5260.00	118.2 PK			2.31 H	220	77.4	40.8
4	*5260.00	108.5 AV			2.31 H	220	67.7	40.8
5	#10520.00	58.9 PK	68.2	-9.3	2.01 H	176	51.2	7.7
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	56.2 PK	74.0	-17.8	1.07 V	183	52.9	3.3
2	5150.00	45.9 AV	54.0	-8.1	1.07 V	183	42.6	3.3
3	*5260.00	121.0 PK			1.07 V	183	80.2	40.8
4	*5260.00	110.0 AV			1.07 V	183	69.2	40.8
5	#10520.00	59.3 PK	68.2	-8.9	1.18 V	281	51.6	7.7

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) _Full RU	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	118.1 PK			2.56 H	218	77.3	40.8
2	*5300.00	107.9 AV			2.56 H	218	67.1	40.8
3	10600.00	56.0 PK	74.0	-18.0	2.40 H	211	48.2	7.8
4	10600.00	45.3 AV	54.0	-8.7	2.40 H	211	37.5	7.8
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	119.8 PK			1.24 V	181	79.0	40.8
2	*5300.00	109.5 AV			1.24 V	181	68.7	40.8
3	10600.00	56.4 PK	74.0	-17.6	1.55 V	189	48.6	7.8
4	10600.00	45.6 AV	54.0	-8.4	1.55 V	189	37.8	7.8

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) _Full RU	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	117.5 PK			2.55 H	213	76.8	40.7
2	*5320.00	106.6 AV			2.55 H	213	65.9	40.7
3	5350.00	61.3 PK	74.0	-12.7	2.55 H	213	58.4	2.9
4	5350.00	51.8 AV	54.0	-2.2	2.55 H	213	48.9	2.9
5	10640.00	56.1 PK	74.0	-17.9	2.48 H	203	48.1	8.0
6	10640.00	45.4 AV	54.0	-8.6	2.48 H	203	37.4	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	119.3 PK			1.28 V	182	78.6	40.7
2	*5320.00	108.1 AV			1.28 V	182	67.4	40.7
3	5350.00	63.2 PK	74.0	-10.8	1.28 V	182	60.3	2.9
4	5350.00	53.4 AV	54.0	-0.6	1.28 V	182	50.5	2.9
5	10640.00	56.2 PK	74.0	-17.8	1.60 V	182	48.2	8.0
6	10640.00	45.6 AV	54.0	-8.4	1.60 V	182	37.6	8.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.9 PK	74.0	-14.1	2.57 H	219	56.9	3.0
2	5460.00	49.5 AV	54.0	-4.5	2.57 H	219	46.5	3.0
3	#5470.00	66.1 PK	68.2	-2.1	2.57 H	219	63.1	3.0
4	*5500.00	120.3 PK			2.57 H	219	79.1	41.2
5	*5500.00	107.5 AV			2.57 H	219	66.3	41.2
6	11000.00	55.2 PK	74.0	-18.8	1.07 H	284	47.7	7.5
7	11000.00	44.1 AV	54.0	-9.9	1.07 H	284	36.6	7.5
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	5460.00	65.1 PK	74.0	-8.9	1.00 V	193	62.1	3.0
2	5460.00	51.6 AV	54.0	-2.4	1.00 V	193	48.6	3.0
3	#5470.00	67.9 PK	68.2	-0.3	1.00 V	193	64.9	3.0
4	*5500.00	121.6 PK			1.00 V	193	80.4	41.2
5	*5500.00	109.1 AV			1.00 V	193	67.9	41.2
6	11000.00	56.3 PK	74.0	-17.7	1.48 V	178	48.8	7.5
7	11000.00	45.3 AV	54.0	-8.7	1.48 V	178	37.8	7.5

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) _Full RU	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	121.3 PK			2.61 H	217	79.9	41.4
2	*5580.00	108.4 AV			2.61 H	217	67.0	41.4
3	11160.00	55.9 PK	74.0	-18.1	1.04 H	287	47.4	8.5
4	11160.00	44.7 AV	54.0	-9.3	1.04 H	287	36.2	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	*5580.00	122.4 PK			1.02 V	191	81.0	41.4
2	*5580.00	110.2 AV			1.02 V	191	68.8	41.4
3	11160.00	57.1 PK	74.0	-16.9	1.55 V	174	48.6	8.5
4	11160.00	45.9 AV	54.0	-8.1	1.55 V	174	37.4	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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.8 PK			2.55 H	220	74.8	42.0
2	*5700.00	103.7 AV			2.55 H	220	61.7	42.0
3	#5725.00	67.9 PK	68.2	-0.3	2.55 H	220	63.8	4.1
4	11400.00	54.1 PK	74.0	-19.9	1.03 H	279	45.7	8.4
5	11400.00	43.3 AV	54.0	-10.7	1.03 H	279	34.9	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	*5700.00	116.4 PK			1.00 V	192	74.4	42.0
2	*5700.00	103.3 AV			1.00 V	192	61.3	42.0
3	#5725.00	67.5 PK	68.2	-0.7	1.00 V	192	63.4	4.1
4	11400.00	55.8 PK	74.0	-18.2	1.55 V	183	47.4	8.4
5	11400.00	44.7 AV	54.0	-9.3	1.55 V	183	36.3	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) _Full RU	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	59.3 PK	68.2	-8.9	2.48 H	216	56.3	3.0
2	*5720.00	120.9 PK			2.48 H	216	78.8	42.1
3	*5720.00	109.5 AV			2.48 H	216	67.4	42.1
4	#5850.00	61.7 PK	68.2	-6.5	2.48 H	216	57.3	4.4
5	11440.00	55.2 PK	74.0	-18.8	2.50 H	236	46.8	8.4
6	11440.00	43.7 AV	54.0	-10.3	2.50 H	236	35.3	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	#5470.00	59.5 PK	68.2	-8.7	1.09 V	192	56.5	3.0
2	*5720.00	120.1 PK			1.09 V	192	78.0	42.1
3	*5720.00	109.9 AV			1.09 V	192	67.8	42.1
4	#5850.00	61.9 PK	68.2	-6.3	1.09 V	192	57.5	4.4
5	11440.00	55.6 PK	74.0	-18.4	1.61 V	186	47.2	8.4
6	11440.00	44.5 AV	54.0	-9.5	1.61 V	186	36.1	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) _Full RU	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	#5636.80	61.9 PK	68.2	-6.3	2.39 H	220	58.2	3.7
2	*5745.00	120.7 PK			2.39 H	220	116.6	4.1
3	*5745.00	107.8 AV			2.39 H	220	103.7	4.1
4	#5962.80	63.3 PK	68.2	-4.9	2.39 H	220	58.7	4.6
5	11490.00	60.3 PK	74.0	-13.7	1.94 H	197	51.8	8.5
6	11490.00	47.2 AV	54.0	-6.8	1.94 H	197	38.7	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	#5601.20	60.0 PK	68.2	-8.2	1.05 V	190	56.5	3.5
2	*5745.00	119.8 PK			1.05 V	190	115.7	4.1
3	*5745.00	106.4 AV			1.05 V	190	102.3	4.1
4	#5980.80	60.9 PK	68.2	-7.3	1.05 V	190	56.3	4.6
5	11490.00	60.5 PK	74.0	-13.5	1.47 V	180	52.0	8.5
6	11490.00	47.9 AV	54.0	-6.1	1.47 V	180	39.4	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) _Full RU	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	#5620.80	60.9 PK	68.2	-7.3	2.38 H	217	57.3	3.6
2	*5785.00	120.0 PK			2.38 H	217	77.5	42.5
3	*5785.00	108.9 AV			2.38 H	217	66.4	42.5
4	#5950.80	62.6 PK	68.2	-5.6	2.38 H	217	58.0	4.6
5	11570.00	60.4 PK	74.0	-13.6	1.90 H	199	51.6	8.8
6	11570.00	47.3 AV	54.0	-6.7	1.90 H	199	38.5	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	#5647.20	61.7 PK	68.2	-6.5	1.30 V	191	57.9	3.8
2	*5785.00	117.6 PK			1.30 V	191	75.1	42.5
3	*5785.00	103.8 AV			1.30 V	191	61.3	42.5
4	#5998.80	61.9 PK	68.2	-6.3	1.30 V	191	57.1	4.8
5	11570.00	60.7 PK	74.0	-13.3	1.45 V	193	51.9	8.8
6	11570.00	48.1 AV	54.0	-5.9	1.45 V	193	39.3	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) _Full RU	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	#5642.80	62.1 PK	68.2	-6.1	2.31 H	216	58.3	3.8
2	*5825.00	120.6 PK			2.31 H	216	78.0	42.6
3	*5825.00	109.5 AV			2.31 H	216	66.9	42.6
4	#5925.20	63.5 PK	68.2	-4.7	2.31 H	216	59.0	4.5
5	11650.00	60.4 PK	74.0	-13.6	1.95 H	187	51.6	8.8
6	11650.00	47.4 AV	54.0	-6.6	1.95 H	187	38.6	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5608.00	61.9 PK	68.2	-6.3	1.13 V	193	58.4	3.5
2	*5825.00	119.3 PK			1.13 V	193	76.7	42.6
3	*5825.00	108.1 AV			1.13 V	193	65.5	42.6
4	#5985.60	63.3 PK	68.2	-4.9	1.13 V	193	58.6	4.7
5	11650.00	60.7 PK	74.0	-13.3	1.45 V	183	51.9	8.8
6	11650.00	48.1 AV	54.0	-5.9	1.45 V	183	39.3	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE40) _Full RU	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	5148.50	63.0 PK	74.0	-11.0	2.37 H	221	59.7	3.3
2	5148.50	52.2 AV	54.0	-1.8	2.37 H	221	48.9	3.3
3	*5190.00	112.9 PK			2.37 H	221	72.1	40.8
4	*5190.00	103.9 AV			2.37 H	221	63.1	40.8
5	#10380.00	58.0 PK	68.2	-10.2	2.56 H	193	49.9	8.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5148.50	65.0 PK	74.0	-9.0	1.12 V	181	61.7	3.3
2	5148.50	53.9 AV	54.0	-0.1	1.12 V	181	50.6	3.3
3	*5190.00	116.0 PK			1.12 V	181	75.2	40.8
4	*5190.00	106.1 AV			1.12 V	181	65.3	40.8
5	#10380.00	58.2 PK	68.2	-10.0	1.16 V	277	50.1	8.1

Remarks:

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

RF Mode	TX 802.11ax (HE40) _Full RU	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	5149.70	66.9 PK	74.0	-7.1	2.34 H	219	63.6	3.3
2	5149.70	51.7 AV	54.0	-2.3	2.34 H	219	48.4	3.3
3	*5230.00	113.6 PK			2.34 H	219	72.8	40.8
4	*5230.00	105.3 AV			2.34 H	219	64.5	40.8
5	5350.00	59.1 PK	74.0	-14.9	2.34 H	219	56.2	2.9
6	5350.00	47.4 AV	54.0	-6.6	2.34 H	219	44.5	2.9
7	#10460.00	58.0 PK	68.2	-10.2	2.50 H	200	50.2	7.8
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	5149.70	70.0 PK	74.0	-4.0	1.25 V	181	66.7	3.3
2	5149.70	53.7 AV	54.0	-0.3	1.25 V	181	50.4	3.3
3	*5230.00	116.7 PK			1.25 V	181	75.9	40.8
4	*5230.00	107.5 AV			1.25 V	181	66.7	40.8
5	5350.00	59.2 PK	74.0	-14.8	1.25 V	181	56.3	2.9
6	5350.00	47.6 AV	54.0	-6.4	1.25 V	181	44.7	2.9
7	#10460.00	59.1 PK	68.2	-9.1	1.19 V	214	51.3	7.8

Remarks:

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

RF Mode	TX 802.11ax (HE40) _Full RU	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	5148.00	60.5 PK	74.0	-13.5	2.53 H	215	57.2	3.3
2	5148.00	47.4 AV	54.0	-6.6	2.53 H	215	44.1	3.3
3	*5270.00	116.7 PK			2.53 H	215	75.9	40.8
4	*5270.00	105.6 AV			2.53 H	215	64.8	40.8
5	5350.00	67.0 PK	74.0	-7.0	2.53 H	215	64.1	2.9
6	5350.00	51.8 AV	54.0	-2.2	2.53 H	215	48.9	2.9
7	#10540.00	56.4 PK	68.2	-11.8	2.31 H	210	48.7	7.7
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	5148.80	60.9 PK	74.0	-13.1	1.14 V	182	57.6	3.3
2	5148.80	47.7 AV	54.0	-6.3	1.14 V	182	44.4	3.3
3	*5270.00	118.3 PK			1.14 V	182	77.5	40.8
4	*5270.00	107.1 AV			1.14 V	182	66.3	40.8
5	5350.00	69.1 PK	74.0	-4.9	1.14 V	182	66.2	2.9
6	5350.00	53.5 AV	54.0	-0.5	1.14 V	182	50.6	2.9
7	#10540.00	56.6 PK	68.2	-11.6	1.52 V	184	48.9	7.7

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) _Full RU	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	113.1 PK			2.57 H	219	72.4	40.7
2	*5310.00	101.2 AV			2.57 H	219	60.5	40.7
3	5350.00	63.1 PK	74.0	-10.9	2.57 H	219	60.2	2.9
4	5350.00	51.6 AV	54.0	-2.4	2.57 H	219	48.7	2.9
5	10620.00	56.1 PK	74.0	-17.9	2.46 H	230	48.2	7.9
6	10620.00	45.5 AV	54.0	-8.5	2.46 H	230	37.6	7.9
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	*5310.00	114.3 PK			1.26 V	182	73.6	40.7
2	*5310.00	102.5 AV			1.26 V	182	61.8	40.7
3	5350.00	64.3 PK	74.0	-9.7	1.26 V	182	61.4	2.9
4	5350.00	53.1 AV	54.0	-0.9	1.26 V	182	50.2	2.9
5	10620.00	56.4 PK	74.0	-17.6	1.50 V	184	48.5	7.9
6	10620.00	45.6 AV	54.0	-8.4	1.50 V	184	37.7	7.9

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) _Full RU	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.4 PK	74.0	-10.6	2.47 H	224	60.4	3.0
2	5460.00	49.5 AV	54.0	-4.5	2.47 H	224	46.5	3.0
3	#5470.00	67.3 PK	68.2	-0.9	2.47 H	224	64.3	3.0
4	*5510.00	114.7 PK			2.47 H	224	73.5	41.2
5	*5510.00	103.4 AV			2.47 H	224	62.2	41.2
6	11020.00	54.6 PK	74.0	-19.4	1.04 H	287	47.0	7.6
7	11020.00	43.3 AV	54.0	-10.7	1.04 H	287	35.7	7.6
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	5460.00	65.1 PK	74.0	-8.9	1.17 V	183	62.1	3.0
2	5460.00	49.9 AV	54.0	-4.1	1.17 V	183	46.9	3.0
3	#5470.00	67.8 PK	68.2	-0.4	1.17 V	183	64.8	3.0
4	*5510.00	114.9 PK			1.17 V	183	73.7	41.2
5	*5510.00	104.1 AV			1.17 V	183	62.9	41.2
6	11020.00	55.7 PK	74.0	-18.3	1.52 V	181	48.1	7.6
7	11020.00	44.8 AV	54.0	-9.2	1.52 V	181	37.2	7.6

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) _Full RU	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	5460.00	64.6 PK	74.0	-9.4	2.59 H	221	61.6	3.0
2	5460.00	49.5 AV	54.0	-4.5	2.59 H	221	46.5	3.0
3	#5470.00	67.5 PK	68.2	-0.7	2.59 H	221	64.5	3.0
4	*5550.00	119.4 PK			2.59 H	221	78.0	41.4
5	*5550.00	106.3 AV			2.59 H	221	64.9	41.4
6	11100.00	55.8 PK	74.0	-18.2	1.07 H	289	47.5	8.3
7	11100.00	44.7 AV	54.0	-9.3	1.07 H	289	36.4	8.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.2 PK	74.0	-8.8	1.51 V	176	62.2	3.0
2	5460.00	49.8 AV	54.0	-4.2	1.51 V	176	46.8	3.0
3	#5470.00	67.9 PK	68.2	-0.3	1.51 V	176	64.9	3.0
4	*5550.00	120.1 PK			1.51 V	176	78.7	41.4
5	*5550.00	107.2 AV			1.51 V	176	65.8	41.4
6	11100.00	57.1 PK	74.0	-16.9	1.63 V	184	48.8	8.3
7	11100.00	46.0 AV	54.0	-8.0	1.63 V	184	37.7	8.3

Remarks:

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

RF Mode	TX 802.11ax (HE40) _Full RU	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	117.7 PK			2.51 H	223	75.8	41.9
2	*5670.00	105.1 AV			2.51 H	223	63.2	41.9
3	#5725.00	68.1 PK	68.2	-0.1	2.51 H	223	64.0	4.1
4	11340.00	55.2 PK	74.0	-18.8	1.04 H	281	46.7	8.5
5	11340.00	44.3 AV	54.0	-9.7	1.04 H	281	35.8	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	*5670.00	116.3 PK			1.59 V	167	74.4	41.9
2	*5670.00	103.9 AV			1.59 V	167	62.0	41.9
3	#5725.00	68.0 PK	68.2	-0.2	1.59 V	167	63.9	4.1
4	11340.00	56.6 PK	74.0	-17.4	1.67 V	190	48.1	8.5
5	11340.00	45.3 AV	54.0	-8.7	1.67 V	190	36.8	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 (HE40) _Full RU	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	59.4 PK	68.2	-8.8	2.45 H	221	56.4	3.0
2	*5710.00	119.5 PK			2.45 H	221	77.5	42.0
3	*5710.00	108.7 AV			2.45 H	221	66.7	42.0
4	#5850.00	61.8 PK	68.2	-6.4	2.45 H	221	57.4	4.4
5	11420.00	55.3 PK	74.0	-18.7	2.41 H	251	46.9	8.4
6	11420.00	43.9 AV	54.0	-10.1	2.41 H	251	35.5	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	#5470.00	60.2 PK	68.2	-8.0	1.00 V	193	57.2	3.0
2	*5710.00	119.8 PK			1.00 V	193	77.8	42.0
3	*5710.00	108.1 AV			1.00 V	193	66.1	42.0
4	#5850.00	63.9 PK	68.2	-4.3	1.00 V	193	59.5	4.4
5	11420.00	55.6 PK	74.0	-18.4	1.63 V	188	47.2	8.4
6	11420.00	44.8 AV	54.0	-9.2	1.63 V	188	36.4	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 (HE40) _Full RU	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	#5641.20	60.9 PK	68.2	-7.3	2.60 H	241	57.1	3.8
2	*5755.00	119.7 PK			2.60 H	241	77.5	42.2
3	*5755.00	106.9 AV			2.60 H	241	64.7	42.2
4	#5968.00	61.4 PK	68.2	-6.8	2.60 H	241	56.8	4.6
5	11510.00	59.8 PK	74.0	-14.2	1.85 H	198	51.2	8.6
6	11510.00	47.1 AV	54.0	-6.9	1.85 H	198	38.5	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	#5644.80	62.6 PK	68.2	-5.6	1.37 V	183	58.8	3.8
2	*5755.00	117.7 PK			1.37 V	183	75.5	42.2
3	*5755.00	105.6 AV			1.37 V	183	63.4	42.2
4	#5950.40	61.8 PK	68.2	-6.4	1.37 V	183	57.2	4.6
5	11510.00	60.3 PK	74.0	-13.7	1.55 V	172	51.7	8.6
6	11510.00	47.5 AV	54.0	-6.5	1.55 V	172	38.9	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) _Full RU	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	#5639.60	60.6 PK	68.2	-7.6	2.43 H	222	56.8	3.8
2	*5795.00	119.9 PK			2.43 H	222	77.3	42.6
3	*5795.00	107.1 AV			2.43 H	222	64.5	42.6
4	#5998.40	62.3 PK	68.2	-5.9	2.43 H	222	57.5	4.8
5	11590.00	60.1 PK	74.0	-13.9	1.87 H	192	51.3	8.8
6	11590.00	47.4 AV	54.0	-6.6	1.87 H	192	38.6	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.60	59.3 PK	68.2	-8.9	1.12 V	183	55.7	3.6
2	*5795.00	118.6 PK			1.12 V	183	76.0	42.6
3	*5795.00	106.3 AV			1.12 V	183	63.7	42.6
4	#5931.20	60.4 PK	68.2	-7.8	1.12 V	183	55.9	4.5
5	11590.00	60.7 PK	74.0	-13.3	1.49 V	162	51.9	8.8
6	11590.00	48.0 AV	54.0	-6.0	1.49 V	162	39.2	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE80) _Full RU	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	5149.70	64.1 PK	74.0	-9.9	2.40 H	213	60.8	3.3
2	5149.70	53.5 AV	54.0	-0.5	2.40 H	213	50.2	3.3
3	*5210.00	105.6 PK			2.40 H	213	64.8	40.8
4	*5210.00	96.9 AV			2.40 H	213	56.1	40.8
5	5350.00	56.9 PK	74.0	-17.1	2.40 H	213	54.0	2.9
6	5350.00	46.0 AV	54.0	-8.0	2.40 H	213	43.1	2.9
7	#10420.00	56.2 PK	68.2	-12.0	2.45 H	210	48.2	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5149.70	65.6 PK	74.0	-8.4	1.10 V	182	62.3	3.3
2	5149.70	53.8 AV	54.0	-0.2	1.10 V	182	50.5	3.3
3	*5210.00	109.1 PK			1.10 V	182	68.3	40.8
4	*5210.00	98.8 AV			1.10 V	182	58.0	40.8
5	5350.00	57.5 PK	74.0	-16.5	1.10 V	182	54.6	2.9
6	5350.00	46.7 AV	54.0	-7.3	1.10 V	182	43.8	2.9
7	#10420.00	56.6 PK	68.2	-11.6	1.13 V	288	48.6	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE80) _Full RU	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	56.4 PK	74.0	-17.6	2.55 H	217	53.1	3.3
2	5150.00	45.6 AV	54.0	-8.4	2.55 H	217	42.3	3.3
3	*5290.00	107.0 PK			2.55 H	217	66.2	40.8
4	*5290.00	98.5 AV			2.55 H	217	57.7	40.8
5	5350.00	63.0 PK	74.0	-11.0	2.55 H	217	60.1	2.9
6	5350.00	52.7 AV	54.0	-1.3	2.55 H	217	49.8	2.9
7	#10580.00	55.9 PK	68.2	-12.3	2.43 H	211	48.2	7.7
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	56.8 PK	74.0	-17.2	1.21 V	182	53.5	3.3
2	5150.00	45.9 AV	54.0	-8.1	1.21 V	182	42.6	3.3
3	*5290.00	108.7 PK			1.21 V	182	67.9	40.8
4	*5290.00	99.4 AV			1.21 V	182	58.6	40.8
5	5350.00	63.4 PK	74.0	-10.6	1.21 V	182	60.5	2.9
6	5350.00	53.6 AV	54.0	-0.4	1.21 V	182	50.7	2.9
7	#10580.00	56.4 PK	68.2	-11.8	1.52 V	192	48.7	7.7

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) _Full RU	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	66.4 PK	74.0	-7.6	2.44 H	223	63.4	3.0
2	5460.00	53.8 AV	54.0	-0.2	2.44 H	223	50.8	3.0
3	#5470.00	67.8 PK	68.2	-0.4	2.44 H	223	64.8	3.0
4	*5530.00	113.9 PK			2.44 H	223	72.6	41.3
5	*5530.00	100.6 AV			2.44 H	223	59.3	41.3
6	11060.00	53.8 PK	74.0	-20.2	1.06 H	279	45.8	8.0
7	11060.00	43.2 AV	54.0	-10.8	1.06 H	279	35.2	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.1 PK	74.0	-7.9	1.10 V	175	63.1	3.0
2	5460.00	53.7 AV	54.0	-0.3	1.10 V	175	50.7	3.0
3	#5470.00	67.7 PK	68.2	-0.5	1.10 V	175	64.7	3.0
4	*5530.00	113.6 PK			1.10 V	175	72.3	41.3
5	*5530.00	100.3 AV			1.10 V	175	59.0	41.3
6	11060.00	54.3 PK	74.0	-19.7	1.56 V	188	46.3	8.0
7	11060.00	44.1 AV	54.0	-9.9	1.56 V	188	36.1	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE80) _Full RU	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	*5610.00	114.7 PK			2.46 H	222	73.2	41.5
2	*5610.00	112.1 AV			2.46 H	222	70.6	41.5
3	#5725.00	67.3 PK	68.2	-0.9	2.46 H	222	63.2	4.1
4	11220.00	54.6 PK	74.0	-19.4	1.02 H	283	45.9	8.7
5	11220.00	44.4 AV	54.0	-9.6	1.02 H	283	35.7	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	*5610.00	114.9 PK			1.11 V	177	73.4	41.5
2	*5610.00	102.2 AV			1.11 V	177	60.7	41.5
3	#5725.00	67.9 PK	68.2	-0.3	1.11 V	177	63.8	4.1
4	11220.00	55.2 PK	74.0	-18.8	1.49 V	186	46.5	8.7
5	11220.00	45.1 AV	54.0	-8.9	1.49 V	186	36.4	8.7

Remarks:

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

RF Mode	TX 802.11ax (HE80) _Full RU	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	66.0 PK	68.2	-2.2	2.42 H	218	63.0	3.0
2	*5690.00	116.8 PK			2.42 H	218	74.8	42.0
3	*5690.00	105.3 AV			2.42 H	218	63.3	42.0
4	#5850.00	67.1 PK	68.2	-1.1	2.42 H	218	62.7	4.4
5	11380.00	54.7 PK	74.0	-19.3	2.56 H	231	46.2	8.5
6	11380.00	43.6 AV	54.0	-10.4	2.56 H	231	35.1	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	#5467.10	68.0 PK	68.2	-0.2	1.06 V	176	65.0	3.0
2	*5690.00	115.8 PK			1.06 V	176	73.8	42.0
3	*5690.00	104.8 AV			1.06 V	176	62.8	42.0
4	#5850.00	65.8 PK	68.2	-2.4	1.06 V	176	61.4	4.4
5	11380.00	56.1 PK	74.0	-17.9	1.59 V	185	47.6	8.5
6	11380.00	44.9 AV	54.0	-9.1	1.59 V	185	36.4	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 (HE80) _Full RU	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	#5648.00	63.9 PK	68.2	-4.3	2.58 H	240	60.1	3.8
2	*5775.00	114.5 PK			2.58 H	240	72.0	42.5
3	*5775.00	101.2 AV			2.58 H	240	58.7	42.5
4	#5925.60	64.2 PK	68.2	-4.0	2.58 H	240	59.7	4.5
5	11550.00	60.1 PK	74.0	-13.9	1.88 H	191	51.4	8.7
6	11550.00	47.3 AV	54.0	-6.7	1.88 H	191	38.6	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	#5648.00	67.6 PK	68.2	-0.6	1.26 V	185	63.8	3.8
2	*5775.00	113.4 PK			1.26 V	185	70.9	42.5
3	*5775.00	100.5 AV			1.26 V	185	58.0	42.5
4	#5926.80	62.4 PK	68.2	-5.8	1.26 V	185	57.9	4.5
5	11550.00	60.4 PK	74.0	-13.6	1.45 V	180	51.7	8.7
6	11550.00	47.6 AV	54.0	-6.4	1.45 V	180	38.9	8.7

Remarks:

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

RF Mode	TX 802.11ax (HE160) _Full RU	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	66.1 PK	74.0	-7.9	2.47 H	218	62.8	3.3
2	5150.00	52.8 AV	54.0	-1.2	2.47 H	218	49.5	3.3
3	*5250.00	106.8 PK			2.47 H	218	66.0	40.8
4	*5250.00	104.1 AV			2.47 H	218	63.3	40.8
5	5350.00	65.1 PK	74.0	-8.9	2.47 H	218	62.2	2.9
6	5350.00	52.2 AV	54.0	-1.8	2.47 H	218	49.3	2.9
7	#10500.00	54.2 PK	68.2	-14.0	2.38 H	234	46.5	7.7
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	67.4 PK	74.0	-6.6	1.02 V	192	64.1	3.3
2	5150.00	53.9 AV	54.0	-0.1	1.02 V	192	50.6	3.3
3	*5250.00	109.6 PK			1.02 V	192	68.8	40.8
4	*5250.00	96.2 AV			1.02 V	192	55.4	40.8
5	5350.00	66.9 PK	74.0	-7.1	1.02 V	192	64.0	2.9
6	5350.00	53.8 AV	54.0	-0.2	1.02 V	192	50.9	2.9
7	#10500.00	55.7 PK	68.2	-12.5	1.59 V	184	48.0	7.7

Remarks:

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

RF Mode	TX 802.11ax (HE160) _Full RU	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	65.8 PK	74.0	-8.2	2.42 H	220	62.8	3.0
2	5460.00	52.1 AV	54.0	-1.9	2.42 H	220	49.1	3.0
3	#5470.00	67.5 PK	68.2	-0.7	2.42 H	220	64.5	3.0
4	*5570.00	106.5 PK			2.42 H	220	65.1	41.4
5	*5570.00	94.3 AV			2.42 H	220	52.9	41.4
6	#5725.00	61.9 PK	68.2	-6.3	2.42 H	220	57.8	4.1
7	11140.00	54.3 PK	74.0	-19.7	2.33 H	241	45.9	8.4
8	11140.00	43.7 AV	54.0	-10.3	2.33 H	241	35.3	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	5460.00	67.1 PK	74.0	-6.9	1.03 V	182	64.1	3.0
2	5460.00	53.5 AV	54.0	-0.5	1.03 V	182	50.5	3.0
3	#5470.00	67.9 PK	68.2	-0.3	1.03 V	182	64.9	3.0
4	*5570.00	107.1 PK			1.03 V	182	65.7	41.4
5	*5570.00	95.2 AV			1.03 V	182	53.8	41.4
6	#5725.00	62.1 PK	68.2	-6.1	1.03 V	182	58.0	4.1
7	11140.00	55.5 PK	74.0	-18.5	1.61 V	189	47.1	8.4
8	11140.00	44.6 AV	54.0	-9.4	1.61 V	189	36.2	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.

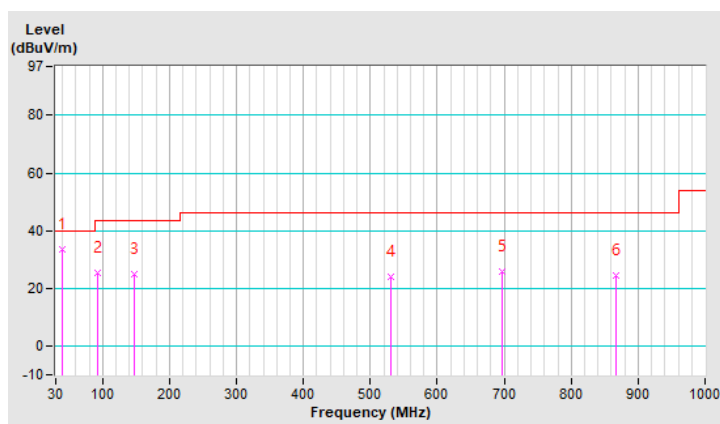
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	30MHz ~ 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	39.84	33.5 QP	40.0	-6.5	2.00 H	78	52.3	-18.8
2	93.26	25.3 QP	43.5	-18.2	1.00 H	271	49.1	-23.8
3	146.68	24.9 QP	43.5	-18.6	1.00 H	357	43.0	-18.1
4	530.46	23.9 QP	46.0	-22.1	1.50 H	7	36.2	-12.3
5	697.75	25.7 QP	46.0	-20.3	1.00 H	272	34.9	-9.2
6	866.45	24.6 QP	46.0	-21.4	2.00 H	14	31.3	-6.7

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

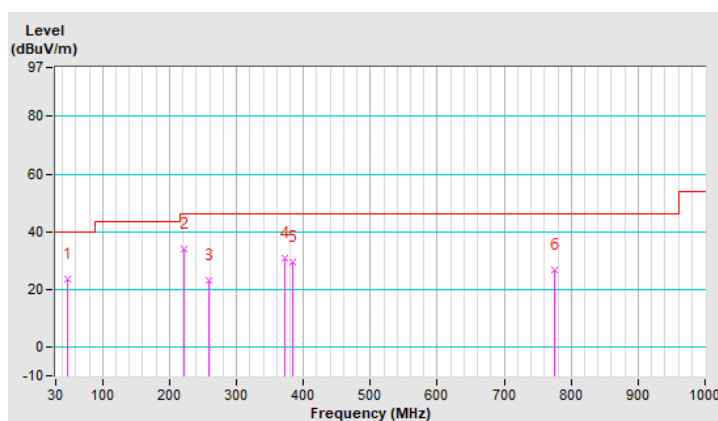


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	23.6 QP	40.0	-16.4	1.50 V	345	41.7	-18.1
2	222.59	34.0 QP	46.0	-12.0	1.00 V	2	55.6	-21.6
3	259.14	23.2 QP	46.0	-22.8	1.00 V	2	42.4	-19.2
4	371.61	30.7 QP	46.0	-15.3	1.00 V	348	46.5	-15.8
5	384.26	29.5 QP	46.0	-16.5	1.50 V	350	45.0	-15.5
6	775.07	26.9 QP	46.0	-19.1	1.50 V	357	34.7	-7.8

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Conc_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

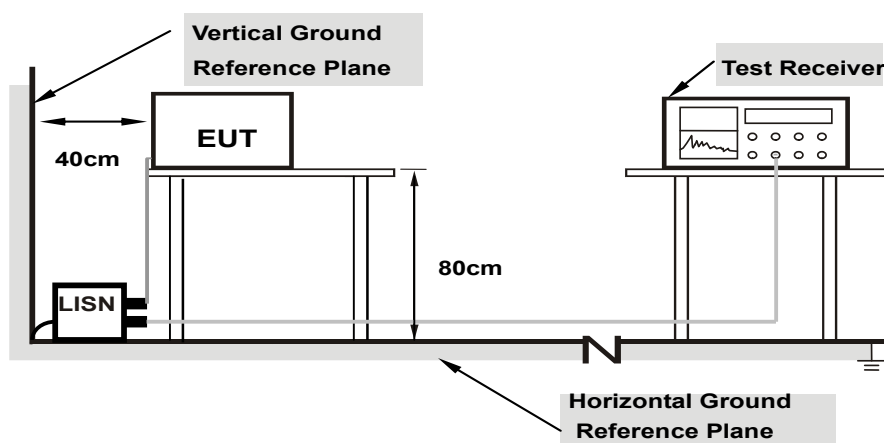
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data:

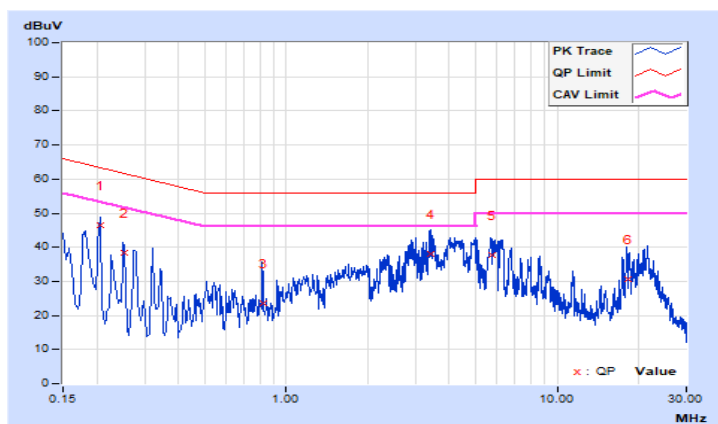
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20523	9.71	36.85	18.74	46.56	28.45	63.40	53.40	-16.84	-24.95
2	0.25400	9.72	28.69	11.17	38.41	20.89	61.63	51.63	-23.22	-30.74
3	0.81800	9.75	13.70	4.25	23.45	14.00	56.00	46.00	-32.55	-32.00
4	3.40200	9.78	28.33	18.13	38.11	27.91	56.00	46.00	-17.89	-18.09
5	5.72200	9.81	28.00	20.27	37.81	30.08	60.00	50.00	-22.19	-19.92
6	18.19000	9.82	20.84	9.14	30.66	18.96	60.00	50.00	-29.34	-31.04

Remarks:

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

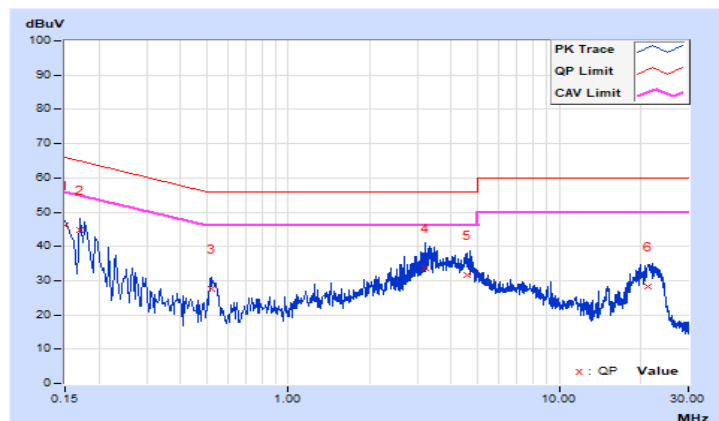


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.76	36.28	18.70	46.04	28.46	66.00	56.00	-19.96	-27.54
2	0.16932	9.77	34.98	18.98	44.75	28.75	64.99	54.99	-20.24	-26.24
3	0.51800	9.80	17.80	9.02	27.60	18.82	56.00	46.00	-28.40	-27.18
4	3.18600	9.84	23.92	16.83	33.76	26.67	56.00	46.00	-22.24	-19.33
5	4.55400	9.86	21.91	15.62	31.77	25.48	56.00	46.00	-24.23	-20.52
6	21.19400	9.99	18.39	9.86	28.38	19.85	60.00	50.00	-31.62	-30.15

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

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

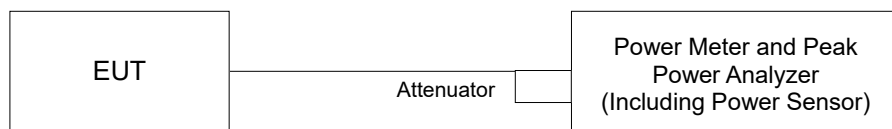
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

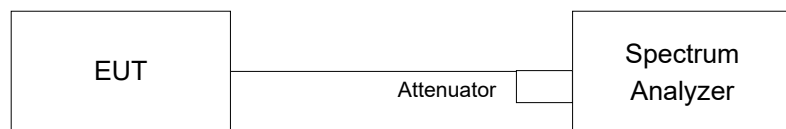
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



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 b) method SA-1.

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 Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	19.22	19.15	165.785	22.20	24.00	Pass
40	5200	19.19	19.27	167.513	22.24	24.00	Pass
48	5240	19.09	18.99	160.346	22.05	24.00	Pass
52	5260	19.31	19.28	170.033	22.31	24.00	Pass
60	5300	18.90	18.82	153.833	21.87	24.00	Pass
64	5320	18.89	18.83	153.830	21.87	24.00	Pass
100	5500	19.01	19.04	159.784	22.04	24.00	Pass
116	5580	19.18	19.23	166.547	22.22	24.00	Pass
140	5700	19.09	18.96	159.801	22.04	24.00	Pass
144	5720 (For U-NII-2C)	18.09	17.92	126.361	21.02	24.00	Pass
144	5720 (For U-NII-3)	12.12	11.95	31.960	15.05	30.00	Pass
149	5745	20.87	21.03	248.945	23.96	30.00	Pass
157	5785	20.74	21.12	247.996	23.94	30.00	Pass
165	5825	20.94	21.03	250.930	24.00	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(28.45) = 25.54 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(38.03) = 26.80 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(36.69) = 26.64 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(36.27) = 26.59 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.59) = 24.90 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(29.28) = 25.66 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5700.05) = 24.97 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(23.99) = 24.80 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(39.11) = 26.92 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(37.95) = 26.79 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(35.57) = 26.51 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.10) = 24.82 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(33.45) = 26.24 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5697.42) = 25.40 > 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.92	18.93	156.146	21.94	24.00	Pass
40	5200	19.66	19.52	182.006	22.60	24.00	Pass
48	5240	19.84	19.82	192.323	22.84	24.00	Pass
52	5260	19.71	19.73	187.513	22.73	24.00	Pass
60	5300	19.38	19.44	174.598	22.42	24.00	Pass
64	5320	19.45	19.34	174.006	22.41	24.00	Pass
100	5500	18.46	18.43	139.808	21.46	24.00	Pass
116	5580	19.57	19.66	183.043	22.63	24.00	Pass
140	5700	16.13	16.02	81.015	19.09	24.00	Pass
144	5720 (For U-NII-2C)	19.35	19.33	171.803	22.35	24.00	Pass
144	5720 (For U-NII-3)	13.92	14.05	50.070	17.00	30.00	Pass
149	5745	19.94	20.04	199.553	23.00	30.00	Pass
157	5785	19.74	20.11	196.754	22.94	30.00	Pass
165	5825	19.86	19.92	195.003	22.90	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(26.37) = 25.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.68) = 27.30 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(36.61) = 26.63 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(37.68) = 26.76 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(39.87) = 27.00 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.58) = 25.56 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5699.60) = 25.04 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(26.15) = 25.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.13) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(39.89) = 27.00 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(35.33) = 26.48 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(29.65) = 25.72 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.95) = 25.61 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5697.16) = 25.44 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	17.25	17.13	104.730	20.20	24.00	Pass
46	5230	19.54	19.42	177.448	22.49	24.00	Pass
54	5270	19.78	19.72	188.817	22.76	24.00	Pass
62	5310	16.54	16.45	89.239	19.51	24.00	Pass
102	5510	16.63	16.52	90.900	19.59	24.00	Pass
110	5550	19.31	19.22	168.870	22.28	24.00	Pass
134	5670	18.29	18.13	132.466	21.22	24.00	Pass
142	5710 (For U-NII-2C)	20.01	20.19	204.703	23.11	24.00	Pass
142	5710 (For U-NII-3)	9.41	9.70	18.062	12.57	30.00	Pass
151	5755	19.51	19.72	183.087	22.63	30.00	Pass
159	5795	19.77	20.14	198.118	22.97	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(67.37) = 29.28 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(50.58) = 28.03 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(55.34) = 28.43 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(54.24) = 28.34 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(58.00) = 28.63 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5675.11) = 27.98 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(55.94) = 28.47 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(51.93) = 28.15 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(52.87) = 28.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(50.86) = 28.06 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(54.79) = 28.38 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5663.90) = 28.86 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.22	14.31	53.401	17.28	24.00	Pass
58	5290	15.18	15.25	66.458	18.23	24.00	Pass
106	5530	16.47	16.50	89.029	19.50	24.00	Pass
122	5610	17.99	18.16	128.414	21.09	24.00	Pass
138	5690 (For U-NII-2C)	19.01	19.11	161.086	22.07	24.00	Pass
138	5690 (For U-NII-3)	4.93	5.07	6.325	8.01	30.00	Pass
155	5775	17.91	17.98	124.607	20.96	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(94.60) = 30.75 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(91.51) = 30.61 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(81.26) = 30.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5633.08) = 30.63 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(94.94) = 30.77 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(98.17) = 30.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(82.46) = 30.16 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5614.63) = 31.43 > 24\text{dBm}$

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (For U-NII-1)	14.09	14.33	52.747	17.22	24.00	Pass
*50	5250 (For U-NII-2A)	15.22	15.05	65.255	18.15	24.00	Pass
114	5570	13.53	13.31	43.971	16.43	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(90.06) = 30.54 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(174.20) = 33.41 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(90.07) = 30.54 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(173.92) = 33.40 > 24\text{dBm}$

802.11ax (HE20)_RU26

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.31	12.17	33.503	15.25	24.00	Pass
64	5320	11.74	11.99	30.740	14.88	24.00	Pass
100	5500	11.64	11.81	29.759	14.74	24.00	Pass
140	5700	11.61	11.83	29.728	14.73	24.00	Pass
149	5745	19.92	20.07	199.800	23.01	30.00	Pass
165	5825	19.88	19.95	196.130	22.93	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.97) = 24.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.72) = 24.16 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.85) = 24.19 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.67) = 24.15 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.64) = 24.14 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.63) = 24.14 > 24\text{dBm}$

802.11ax (HE20)_RU52

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
48	5240	14.65	14.42	56.844	17.55	24.00	Pass
165	5825	19.88	19.96	196.358	22.93	30.00	Pass

802.11ax (HE20)_ RU106

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.65	16.51	91.009	19.59	24.00	Pass
64	5320	16.61	16.87	94.455	19.75	24.00	Pass
100	5500	16.09	16.16	81.949	19.14	24.00	Pass
140	5700	14.89	14.96	62.165	17.94	24.00	Pass
149	5745	19.89	20.04	198.424	22.98	30.00	Pass
165	5825	19.88	19.95	196.130	22.93	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.55) = 24.33 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.37) = 24.29 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.84) = 24.39 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.90) = 24.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.49) = 24.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.89) = 24.19 > 24\text{dBm}$

802.11ax (HE20)_Full RU

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.99	18.97	158.136	21.99	24.00	Pass
40	5200	19.74	19.61	185.600	22.69	24.00	Pass
48	5240	19.94	19.96	197.711	22.96	24.00	Pass
52	5260	19.81	19.85	192.324	22.84	24.00	Pass
60	5300	19.53	19.59	180.734	22.57	24.00	Pass
64	5320	19.57	19.48	179.289	22.54	24.00	Pass
100	5500	18.65	18.67	146.903	21.67	24.00	Pass
116	5580	19.67	19.74	186.872	22.72	24.00	Pass
140	5700	16.27	16.10	83.102	19.20	24.00	Pass
144	5720 (For U-NII-2C)	19.45	19.47	176.616	22.47	24.00	Pass
144	5720 (For U-NII-3)	13.99	14.15	51.063	17.08	30.00	Pass
149	5745	20.01	20.19	204.703	23.11	30.00	Pass
157	5785	19.89	20.21	202.453	23.06	30.00	Pass
165	5825	19.98	20.03	200.234	23.02	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(26.37) = 25.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.68) = 27.30 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(36.61) = 26.63 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(37.68) = 26.76 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(39.87) = 27.00 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.58) = 25.56 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5699.60) = 25.04 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(26.15) = 25.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.13) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(39.89) = 27.00 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(35.33) = 26.48 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(29.65) = 25.72 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.95) = 25.61 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5697.16) = 25.44 > 24\text{dBm}$

802.11ax (HE40)_Full RU

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	17.37	17.29	108.155	20.34	24.00	Pass
46	5230	19.63	19.58	182.615	22.62	24.00	Pass
54	5270	19.94	19.86	195.456	22.91	24.00	Pass
62	5310	16.67	16.59	92.055	19.64	24.00	Pass
102	5510	16.71	16.64	93.013	19.69	24.00	Pass
110	5550	19.45	19.38	174.801	22.43	24.00	Pass
134	5670	18.43	18.31	137.427	21.38	24.00	Pass
142	5710 (For U-NII-2C)	20.09	20.26	208.264	23.19	24.00	Pass
142	5710 (For U-NII-3)	9.47	9.78	18.357	12.64	30.00	Pass
151	5755	19.62	19.84	188.005	22.74	30.00	Pass
159	5795	19.87	20.22	202.247	23.06	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(67.37) = 29.28 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(50.58) = 28.03 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(55.34) = 28.43 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(54.24) = 28.34 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(58.00) = 28.63 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5675.11) = 27.98 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(55.94) = 28.47 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(51.93) = 28.15 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(52.87) = 28.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(50.86) = 28.06 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(54.79) = 28.38 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5663.90) = 28.86 > 24\text{dBm}$

802.11ax (HE80)_Full RU

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.37	14.46	55.278	17.43	24.00	Pass
58	5290	15.18	15.25	66.458	18.23	24.00	Pass
106	5530	16.47	16.50	89.029	19.50	24.00	Pass
122	5610	17.99	18.16	128.414	21.09	24.00	Pass
138	5690 (For U-NII-2C)	19.08	19.22	164.470	22.16	24.00	Pass
138	5690 (For U-NII-3)	5.04	5.15	6.465	8.11	30.00	Pass
155	5775	17.91	17.98	124.607	20.96	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(94.60) = 30.75 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(91.51) = 30.61 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(81.26) = 30.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5633.08) = 30.63 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(94.94) = 30.77 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(98.17) = 30.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(82.46) = 30.16 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5614.63) = 31.43 > 24\text{dBm}$

802.11ax (HE160)_Full RU

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (For U-NII-1)	14.18	14.41	53.788	17.31	24.00	Pass
*50	5250 (For U-NII-2A)	15.30	15.13	66.468	18.23	24.00	Pass
114	5570	13.67	13.45	45.412	16.57	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(90.06) = 30.54 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(174.20) = 33.41 > 24\text{dBm}$

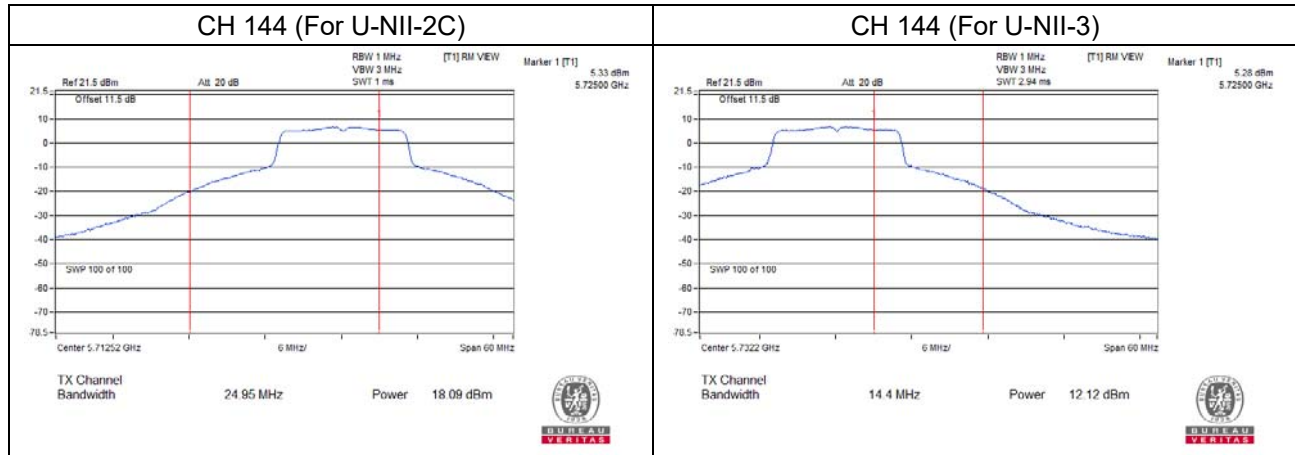
Chain 1

1. $11\text{dBm} + 10\log(90.07) = 30.54 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(173.92) = 33.40 > 24\text{dBm}$

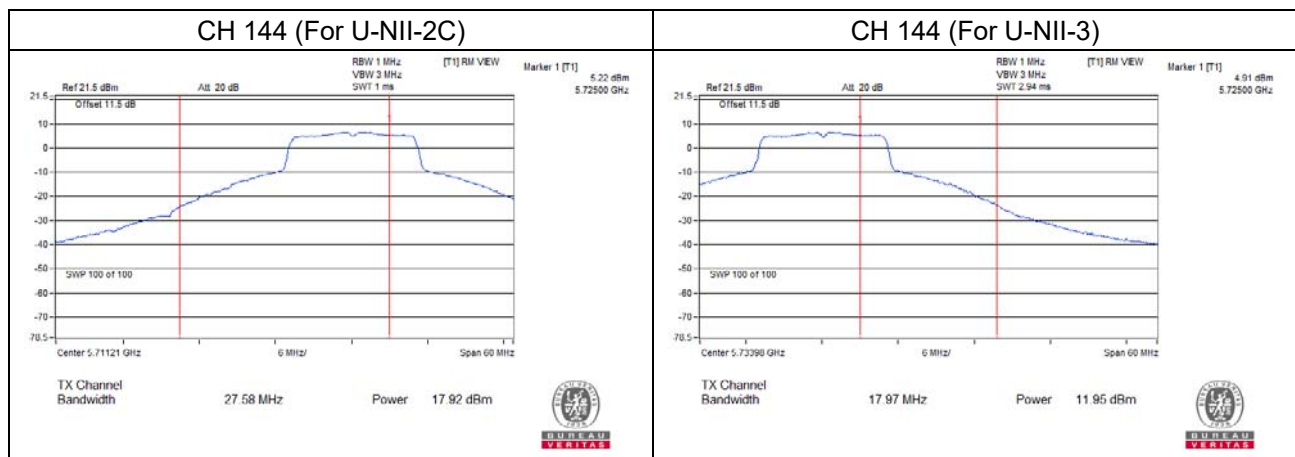
Straddle channel power plots:

802.11a

Chain 0

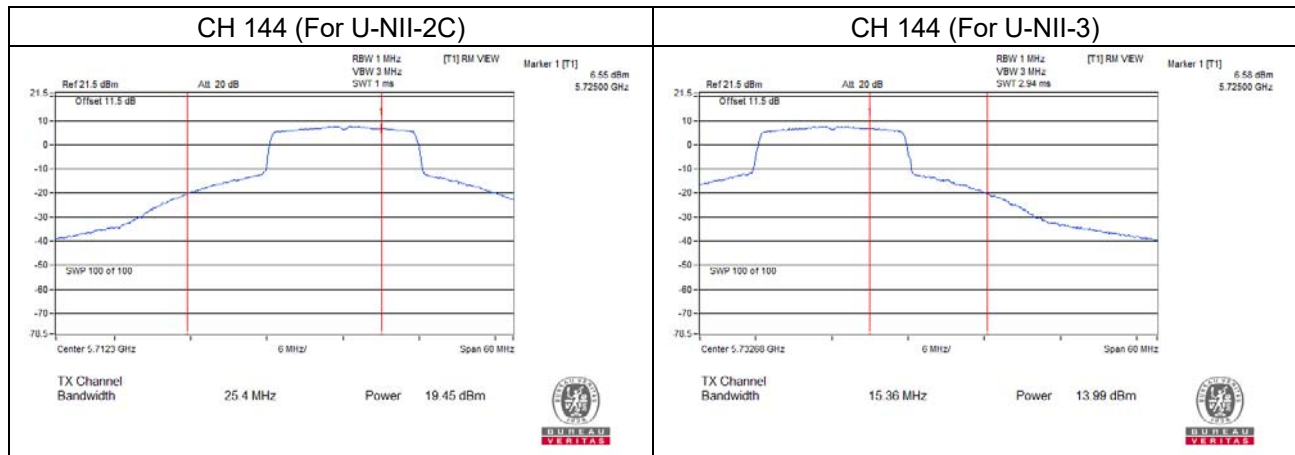


Chain 1

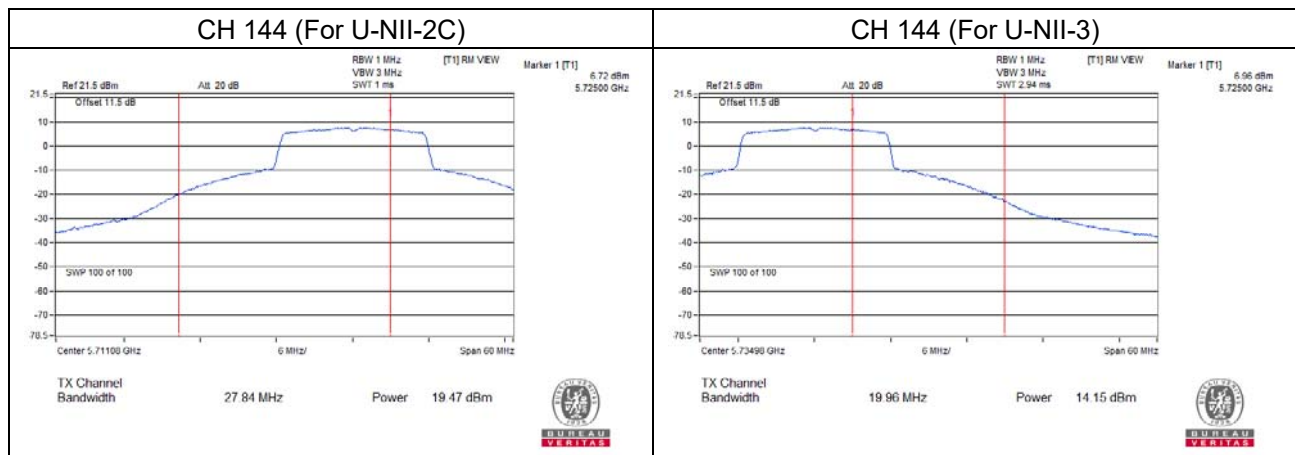


802.11ax (HE20)_Full RU

Chain 0



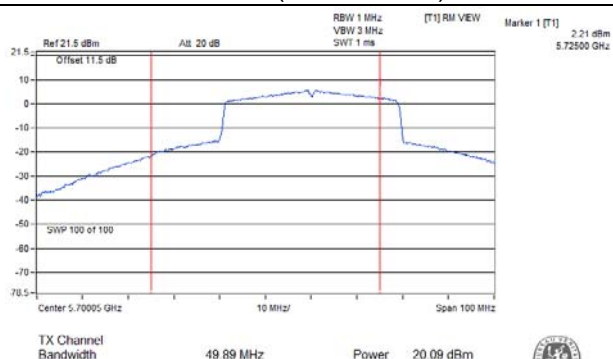
Chain 1



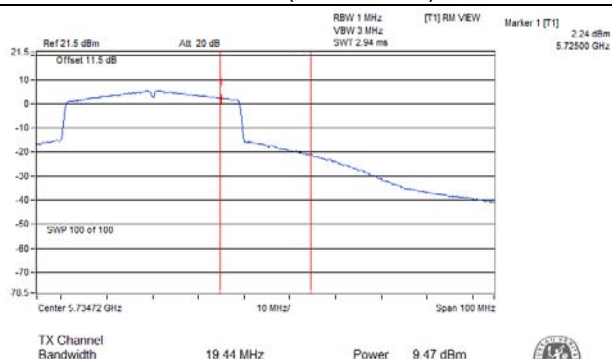
802.11ax (HE40)_Full RU

Chain 0

CH 142 (For U-NII-2C)

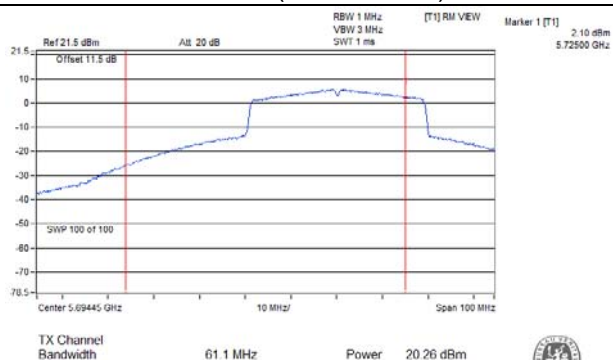


CH 142 (For U-NII-3)

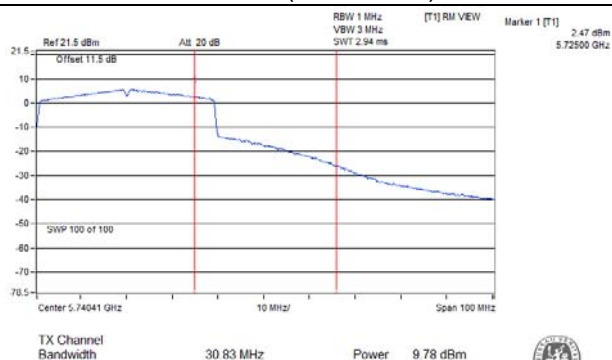


Chain 1

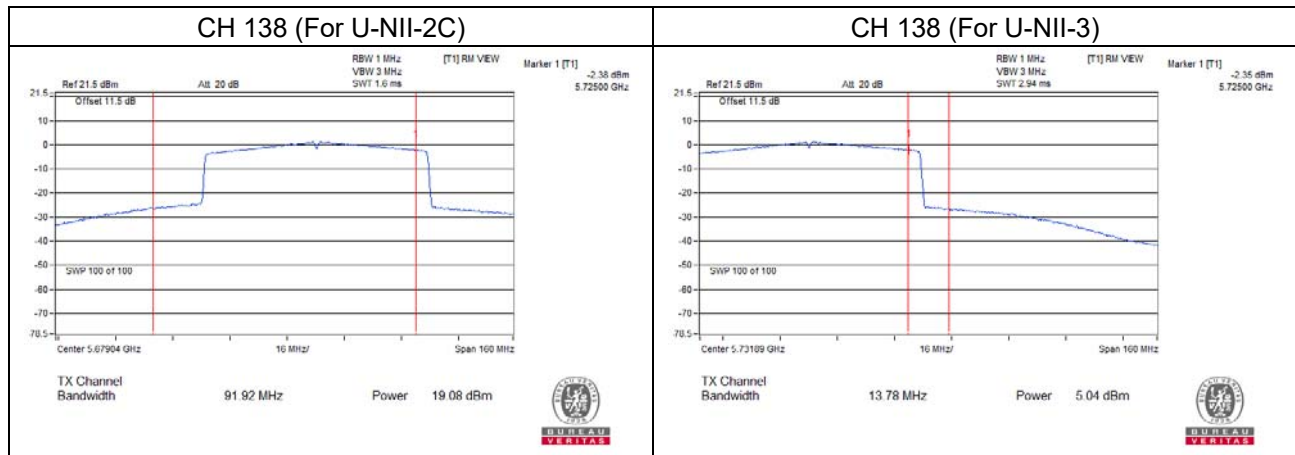
CH 142 (For U-NII-2C)



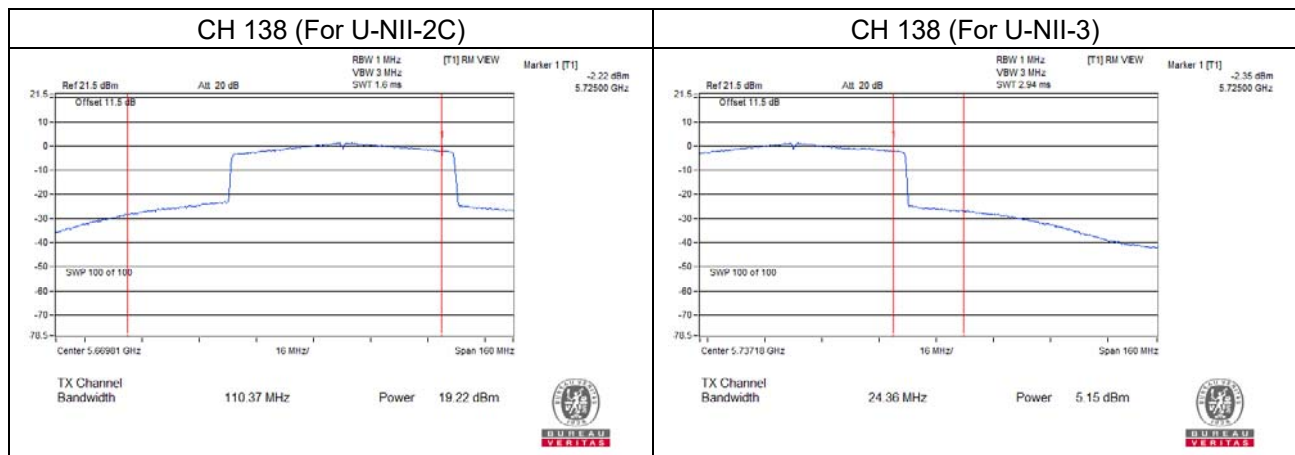
CH 142 (For U-NII-3)



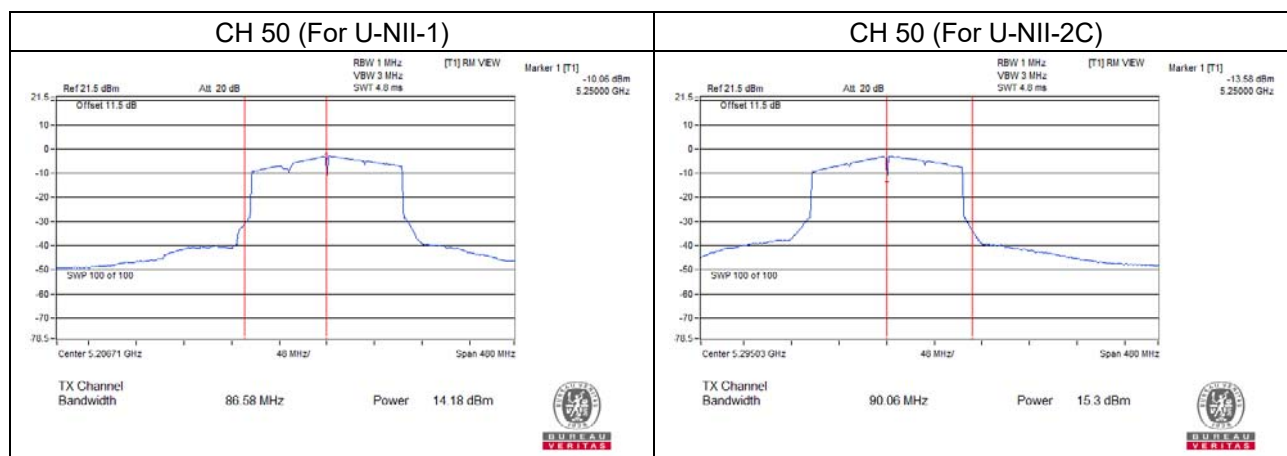
802.11ax (HE80)_Full RU
Chain 0



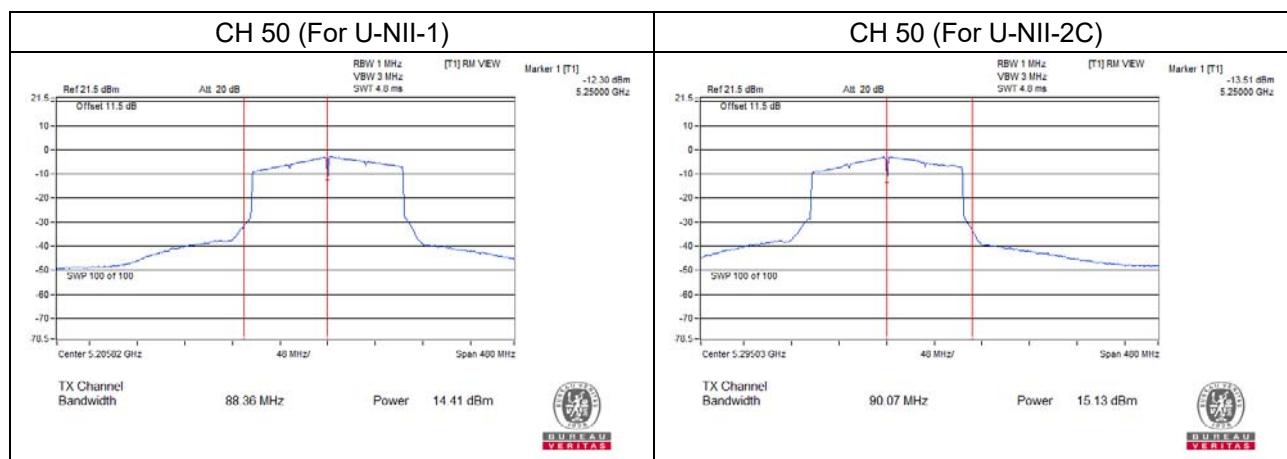
Chain 1



802.11ax (HE160)_Full RU
Chain 0



Chain 1



26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	28.45	23.99
60	5300	38.03	39.11
64	5320	36.69	37.95
100	5500	36.27	35.57
116	5580	24.59	24.10
140	5700	29.28	33.45
144	5720 (For U-NII-2C)	24.95	27.58
144	5720 (For U-NII-3)	14.40	17.97

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (UNII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)_RU26

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	20.97	20.67
100	5500	20.72	20.64
140	5700	20.85	20.63

802.11ax (HE20)_RU106

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	21.55	20.90
100	5500	21.37	20.49
140	5700	21.84	20.89

802.11ax (HE20)_Full RU

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	26.37	26.15
60	5300	42.68	42.13
64	5320	36.61	39.89
100	5500	37.68	35.33
116	5580	39.87	29.65
140	5700	28.58	28.95
144	5720 (For U-NII-2C)	25.40	27.84
144	5720 (For U-NII-3)	15.36	19.96

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)_Full RU

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	67.37	55.94
62	5310	50.58	51.93
102	5510	55.34	52.87
110	5550	54.24	50.86
134	5670	58.00	54.79
142	5710 (For U-NII-2C)	49.89	61.10
142	5710 (For U-NII-3)	19.44	30.83

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE80)_Full RU

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	94.60	94.94
106	5530	91.51	98.17
122	5610	81.26	82.46
138	5690 (For U-NII-2C)	91.92	110.37
138	5690 (For U-NII-3)	13.78	24.36

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH138 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE160)_Full RU

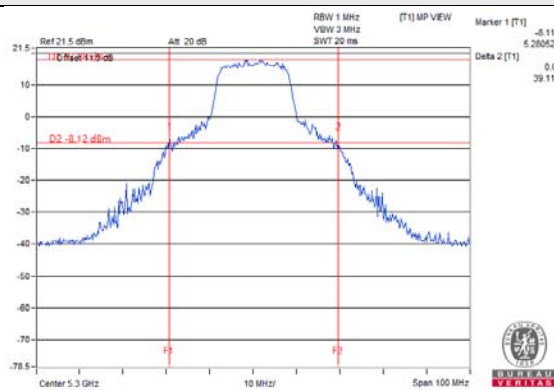
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
*50	5250 (For U-NII-1)	86.58	88.36
*50	5250 (For U-NII-2A)	90.06	90.07
114	5570	174.20	173.92

For CH50 (U-NII-1 Band): The 26dBc bandwidth below 5250MHz = 5250MHz - Marker 1

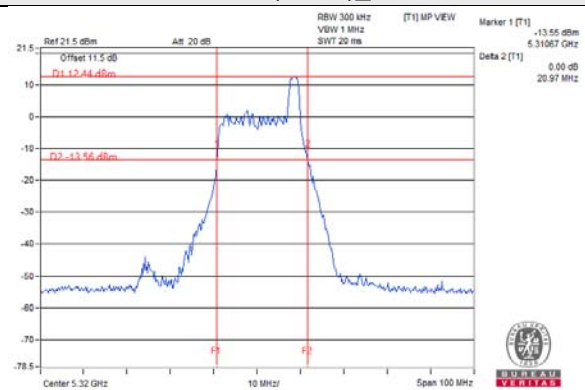
For CH50 (U-NII-2A Band): The 26dBc bandwidth above 5250MHz = Marker 1 + Delta 2 - 5250MHz

Spectrum Plot of Worst Value

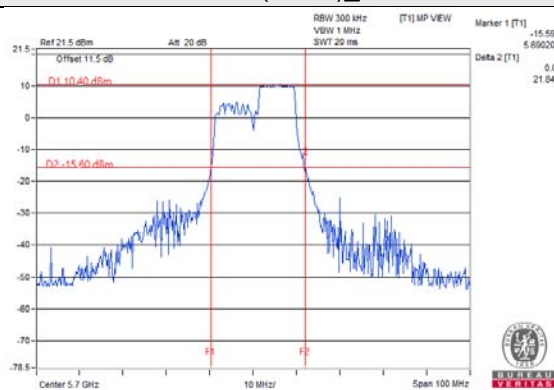
802.11a



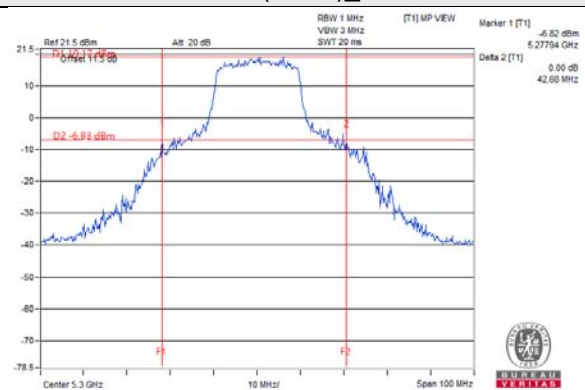
802.11ax (HE20)_RU26



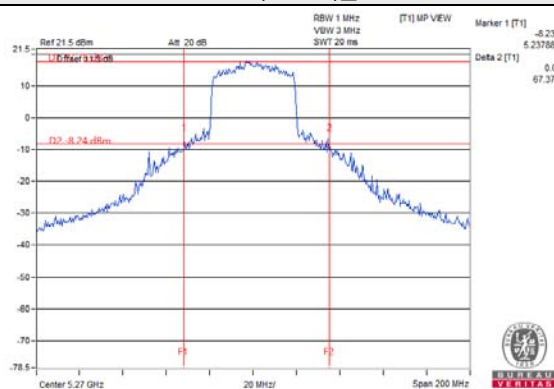
802.11ax (HE20)_RU106



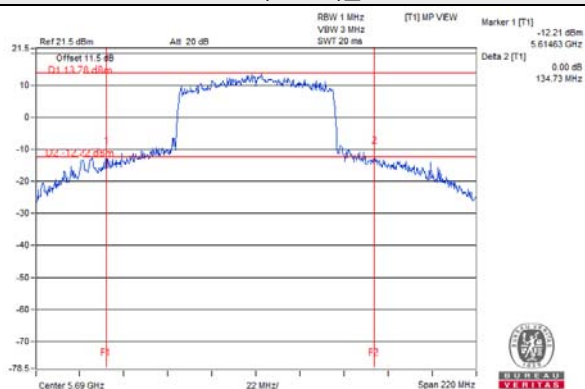
802.11ax (HE20)_Full RU



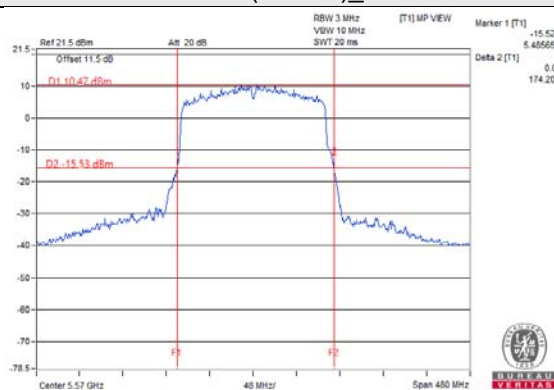
802.11ax (HE40)_Full RU



802.11ax (HE80)_Full RU



802.11ax (HE160)_Full RU



EUT Average Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	22.31	170.033
5470~5725	22.22	166.547

802.11ax (HE20)_Full RU

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	22.84	192.324
5470~5725	22.72	186.872

802.11ax (HE40)_Full RU

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	22.91	195.456
5470~5725	23.19	208.264

802.11ax (HE80)_Full RU

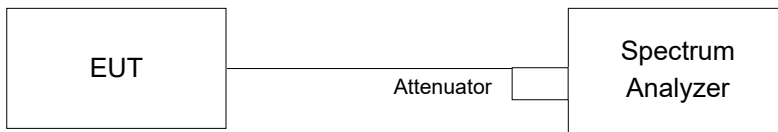
Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.23	66.458
5470~5725	22.16	164.470

802.11ax (HE160)_Full RU

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.23	66.468
5470~5725	16.57	45.412

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 sampling. 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 Result

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.40	17.04
40	5200	17.04	17.04
48	5240	17.04	16.80
52	5260	17.04	16.68
60	5300	17.04	17.40
64	5320	17.16	17.40
100	5500	17.28	17.40
116	5580	16.80	16.68
140	5700	17.04	17.04
144	5720 (For U-NII-2C)	19.64	21.20
144	5720 (For U-NII-3)	9.88	11.68
149	5745	17.40	21.36
157	5785	18.24	17.64
165	5825	26.04	18.24

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)_Full RU

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.32
40	5200	19.20	19.44
48	5240	19.08	19.20
52	5260	19.08	19.08
60	5300	19.32	19.44
64	5320	19.32	19.32
100	5500	19.32	19.20
116	5580	19.32	19.08
140	5700	19.20	19.32
144	5720 (For U-NII-2C)	16.88	20.24
144	5720 (For U-NII-3)	7.00	9.76
149	5745	19.32	19.08
157	5785	19.44	19.08
165	5825	19.68	19.20

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)_Full RU

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	38.04
46	5230	37.92	38.04
54	5270	38.16	37.92
62	5310	38.04	38.16
102	5510	38.04	38.04
110	5550	38.04	38.04
134	5670	38.04	38.04
142	5710 (For U-NII-2C)	34.32	35.88
142	5710 (For U-NII-3)	4.32	4.80
151	5755	38.04	38.18
159	5795	38.28	38.40

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE80)_Full RU

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.28
106	5530	77.28	77.28
122	5610	77.28	77.04
138	5690 (For U-NII-2C)	73.88	73.88
138	5690 (For U-NII-3)	3.88	4.12
155	5775	76.80	77.04

For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH138 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE160)_Full RU

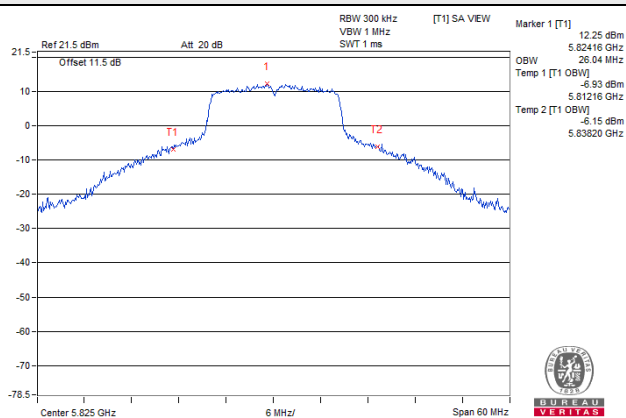
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
*50	5250 (For U-NII-1)	77.91	77.91
*50	5250 (For U-NII-2A)	78.61	78.61
114	5570	155.52	155.52

For CH50 (U-NII-1 Band): The Occupied bandwidth below 5250MHz = 5250MHz - Marker 1

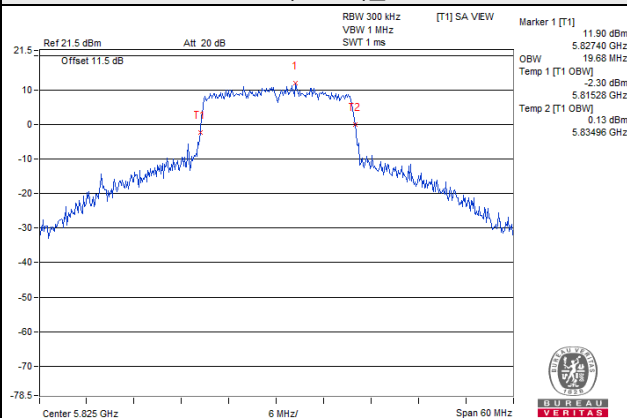
For CH50 (U-NII-2A Band): The Occupied bandwidth above 5250MHz = Marker 1 + Delta 2 - 5250MHz

Spectrum Plot of Worst Value

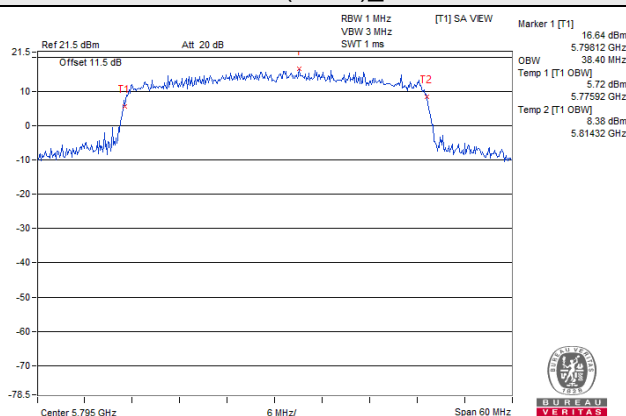
802.11a



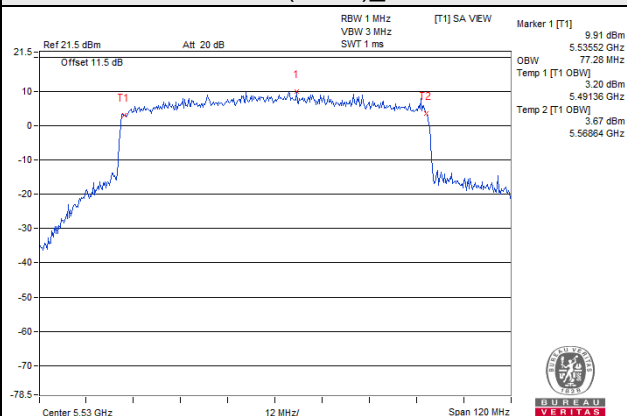
802.11ax (HE20)_Full RU



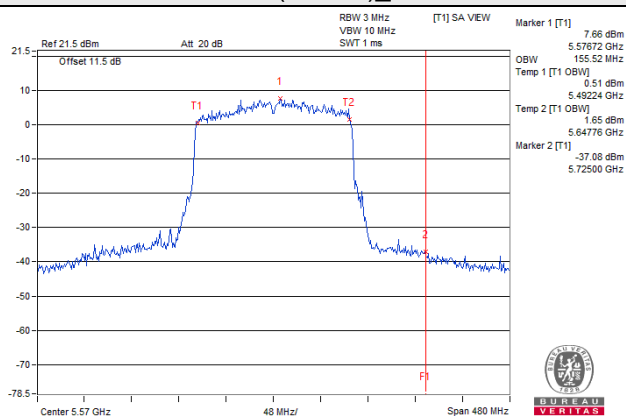
802.11ax (HE40)_Full RU



802.11ax (HE80)_Full RU

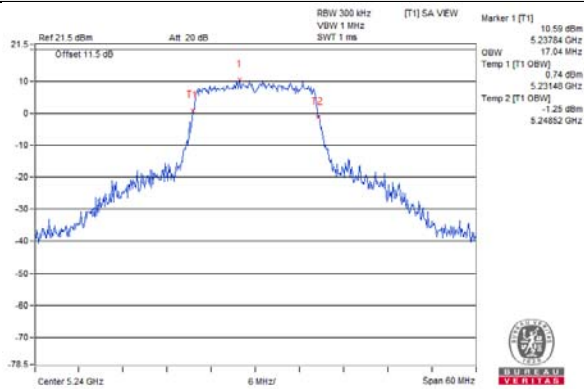


802.11ax (HE160)_Full RU

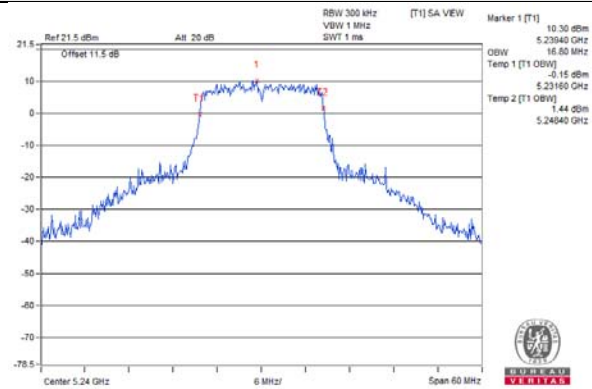


Spectrum Plot for near By DFS Band

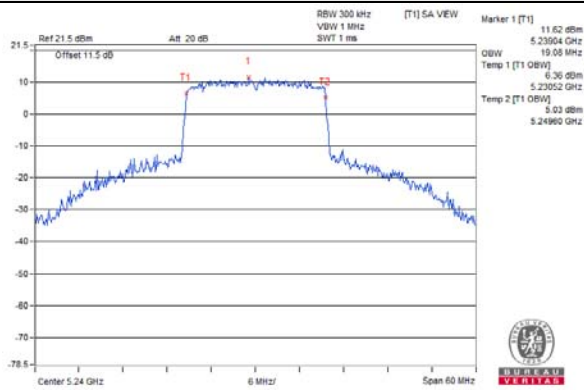
802.11a / Chain 0 / CH 48



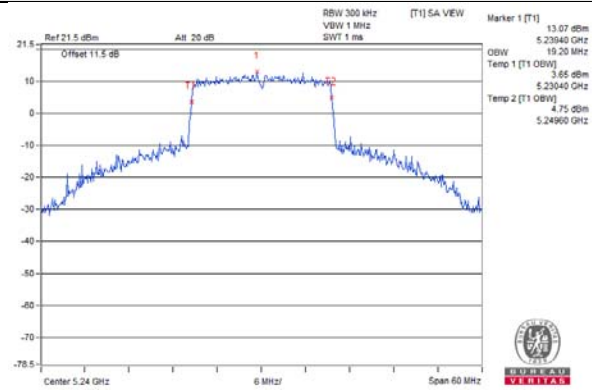
802.11a / Chain 1 / CH 48



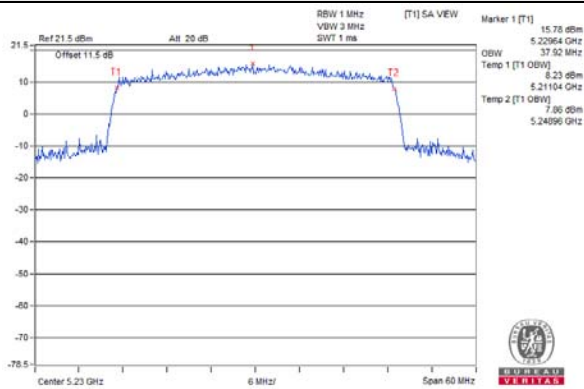
802.11ax (HE20)_Full RU / Chain 0 / CH 48



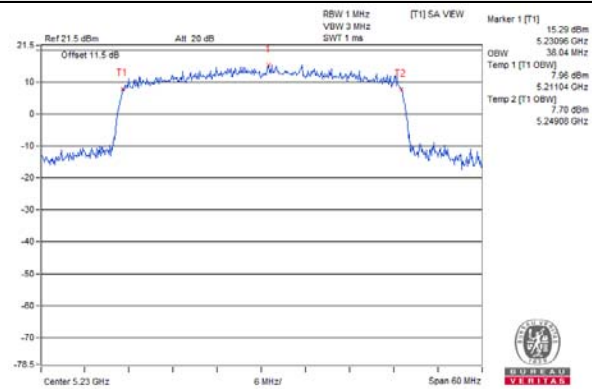
802.11ax (HE20)_Full RU / Chain 1 / CH 48



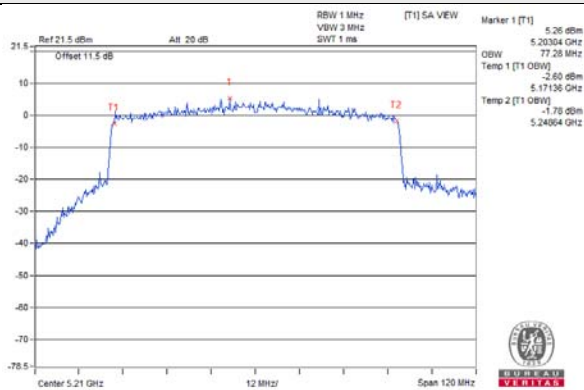
802.11ax (HE40)_Full RU / Chain 0 / CH 46



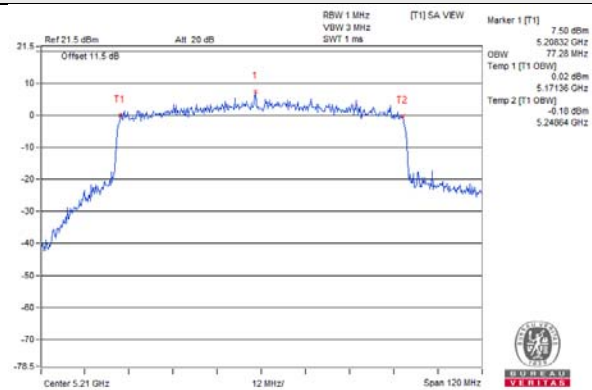
802.11ax (HE40)_Full RU / Chain 1 / CH 46



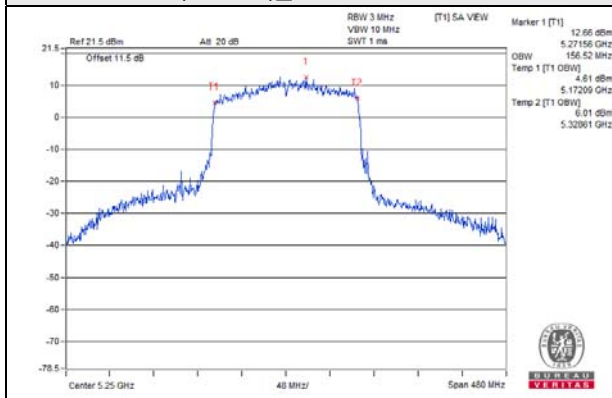
802.11ax (HE80)_Full RU / Chain 0 / CH 42



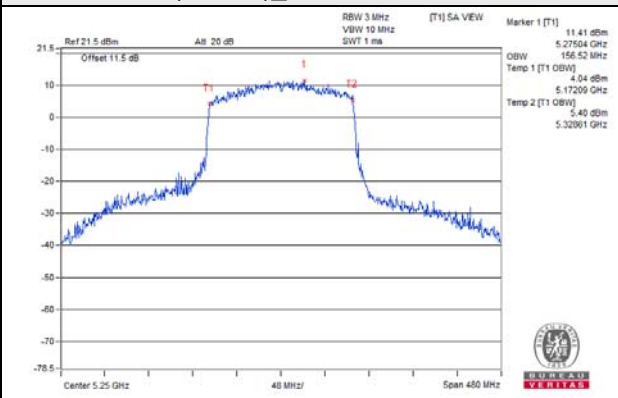
802.11ax (HE80)_Full RU / Chain 1 / CH 42



802.11ax (HE160)_Full RU / Chain 0 / CH 50

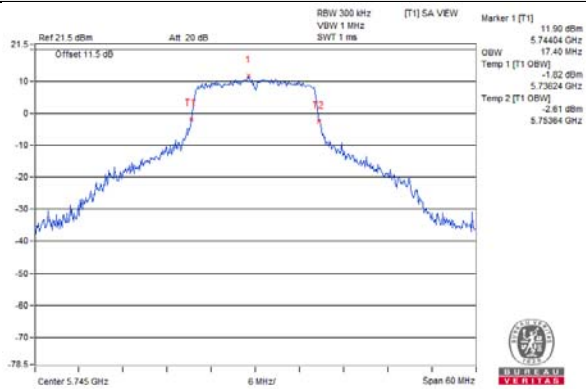


802.11ax (HE160)_Full RU / Chain 1 / CH 50

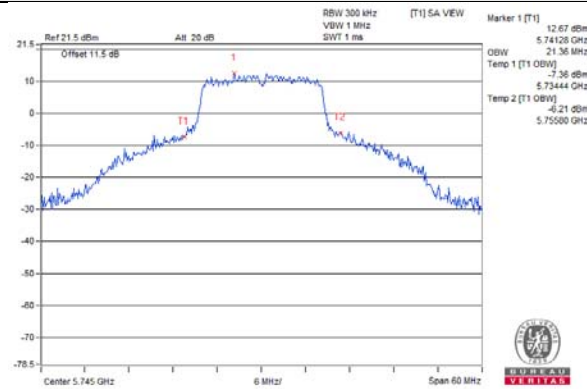


Spectrum Plot for near By DFS Band

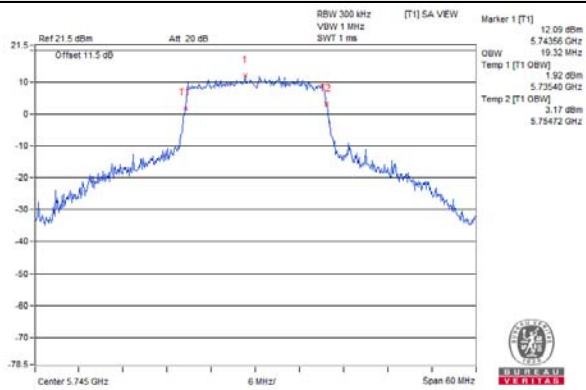
802.11a / Chain 0 / CH 149



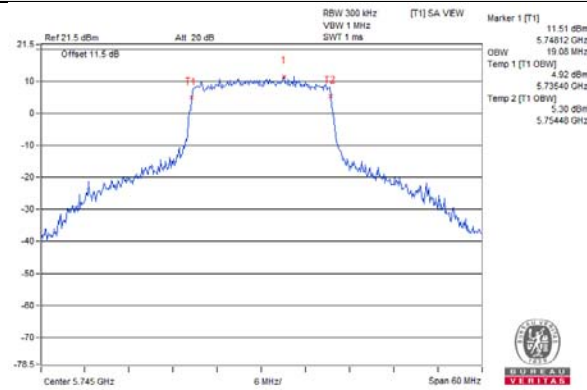
802.11a / Chain 1 / CH 149



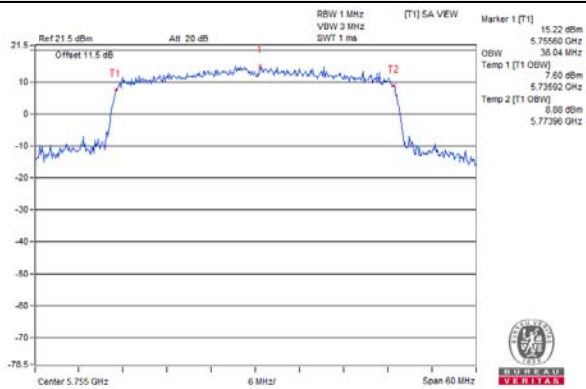
802.11ax (HE20)_Full RU / Chain 0 / CH 149



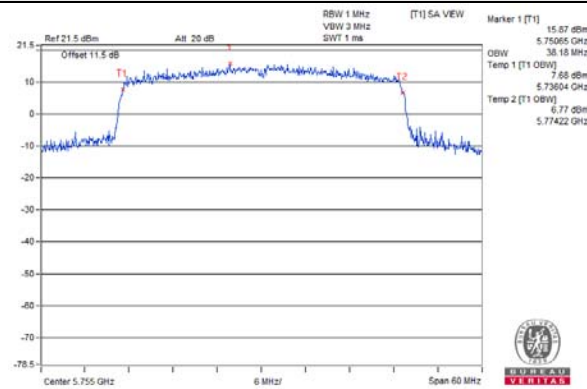
802.11ax (HE20)_Full RU / Chain 1 / CH 149



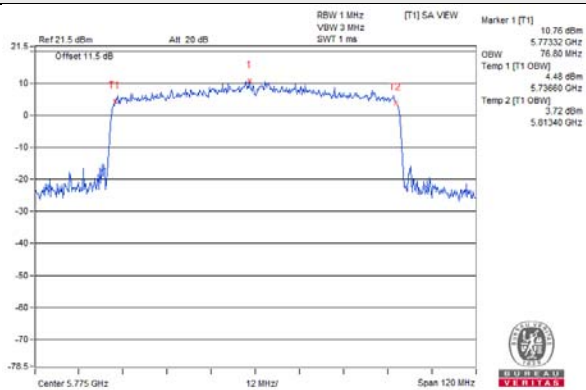
802.11ax (HE40)_Full RU / Chain 0 / CH 151



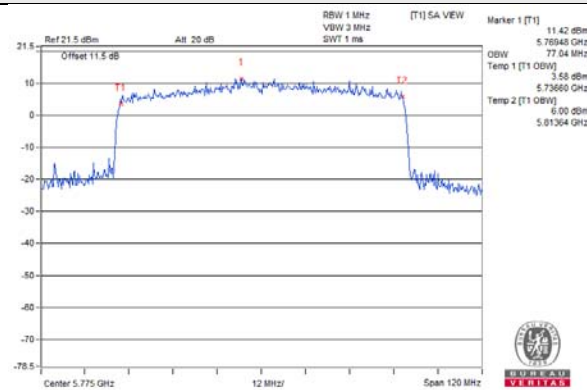
802.11ax (HE40)_Full RU / Chain 1 / CH 151



802.11ax (HE80)_Full RU / Chain 0 / CH 155



802.11ax (HE80)_Full RU / Chain 1 / CH 155

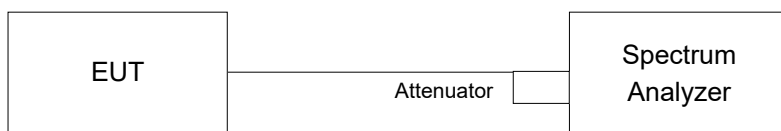


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

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

Using method SA-2

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

For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 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 $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.81	5.25	0.69	8.74	9.07	Pass
40	5200	5.13	5.31	0.69	8.93	9.07	Pass
48	5240	5.22	5.38	0.69	9.01	9.07	Pass
52	5260	5.40	5.29	0.69	9.05	9.07	Pass
60	5300	5.41	5.14	0.69	8.98	9.07	Pass
64	5320	5.47	5.17	0.69	9.03	9.07	Pass
100	5500	5.35	5.33	0.69	9.04	9.07	Pass
116	5580	5.23	5.40	0.69	9.02	9.07	Pass
140	5700	5.06	5.48	0.69	8.98	9.07	Pass
144	5720 (For U-NII-2C)	5.45	5.03	0.69	8.95	9.07	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5250-5320MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5500-5720MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU26

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.31	5.65	0.39	8.88	9.07	Pass
64	5320	5.50	5.64	0.39	8.97	9.07	Pass
100	5500	5.57	5.69	0.39	9.03	9.07	Pass
140	5700	5.79	5.29	0.39	8.94	9.07	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
3. 5250-5320MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
4. 5500-5720MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
5. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU52

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
48	5240	5.72	5.47	0.39	8.99	9.07	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU106

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.13	5.19	0.39	8.56	9.07	Pass
64	5320	4.63	5.86	0.39	8.68	9.07	Pass
100	5500	4.79	4.21	0.39	7.91	9.07	Pass
140	5700	3.63	3.60	0.39	7.01	9.07	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5250-5320MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5500-5720MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_Full RU

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	3.42	2.49	0.39	6.38	9.07	Pass
40	5200	5.31	5.93	0.39	9.03	9.07	Pass
48	5240	4.56	5.16	0.39	8.27	9.07	Pass
52	5260	5.76	5.31	0.39	8.94	9.07	Pass
60	5300	5.84	4.31	0.39	8.54	9.07	Pass
64	5320	5.59	5.70	0.39	9.04	9.07	Pass
100	5500	5.41	4.82	0.39	8.52	9.07	Pass
116	5580	5.03	6.11	0.39	9.00	9.07	Pass
140	5700	1.38	1.57	0.39	4.87	9.07	Pass
144	5720 (For U-NII-2C)	5.58	5.69	0.39	9.03	9.07	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5250-5320MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5500-5720MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)_Full RU

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-2.34	-1.39	0.52	1.69	9.07	Pass
46	5230	1.46	1.38	0.52	4.95	9.07	Pass
54	5270	2.15	2.11	0.52	5.66	9.07	Pass
62	5310	0.01	-0.64	0.52	3.23	9.07	Pass
102	5510	-1.06	-1.56	0.52	2.23	9.07	Pass
110	5550	1.29	1.70	0.52	5.03	9.07	Pass
134	5670	-0.75	0.95	0.52	3.71	9.07	Pass
142	5710 (For U-NII-2C)	4.03	4.61	0.52	7.86	9.07	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180-5250MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
3. 5250-5320MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
4. 5500-5720MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
5. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)_Full RU

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-8.62	-8.23	1.02	-4.39	9.07	Pass
58	5290	-6.36	-6.73	1.02	-2.51	9.07	Pass
106	5530	-6.19	-6.75	1.02	-2.43	9.07	Pass
122	5610	-5.98	-6.20	1.02	-2.06	9.07	Pass
138	5690 (For U-NII-2C)	-1.46	-4.03	1.02	1.47	9.07	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180-5250MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
3. 5250-5320MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
4. 5500-5720MHz: Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.93 - 6) = 9.07dBi.
5. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)_Full RU

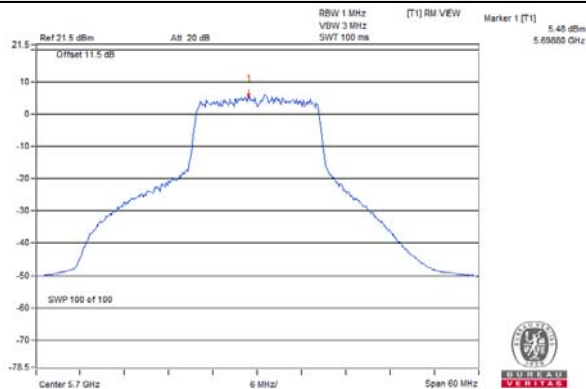
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (For U-NII-1)	-7.52	-7.65	1.75	-2.82	9.07	Pass
*50	5250 (For U-NII-2A)	-7.52	-7.53	1.75	-2.76	9.07	Pass
114	5570	-8.02	-7.97	1.75	-3.23	9.07	Pass

Note:

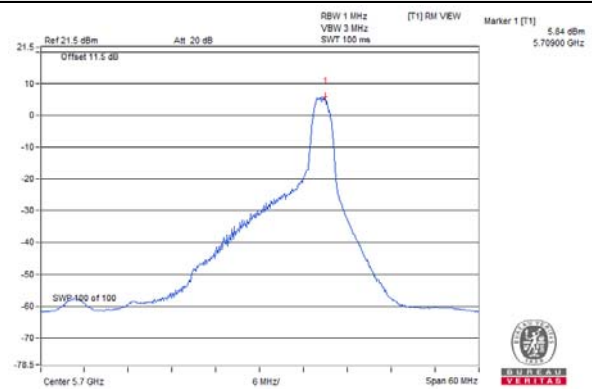
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5250-5320MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- 5500-5720MHz: Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.93 - 6) = 9.07\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

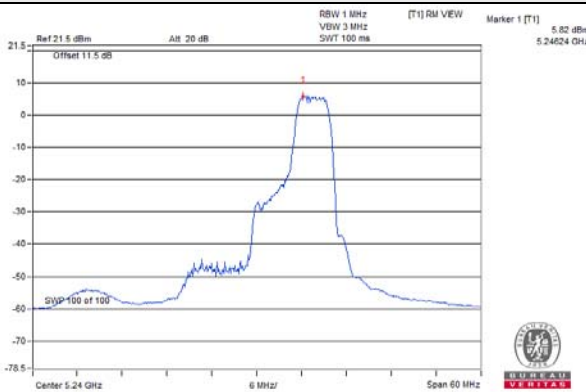
802.11a / Chain 1 / CH 140



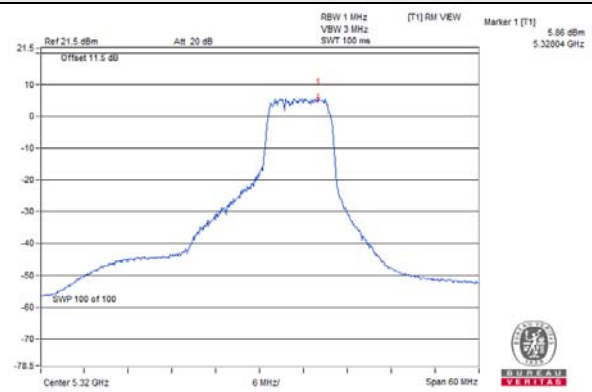
802.11ax (HE20)_RU26 / Chain 0 / CH 140



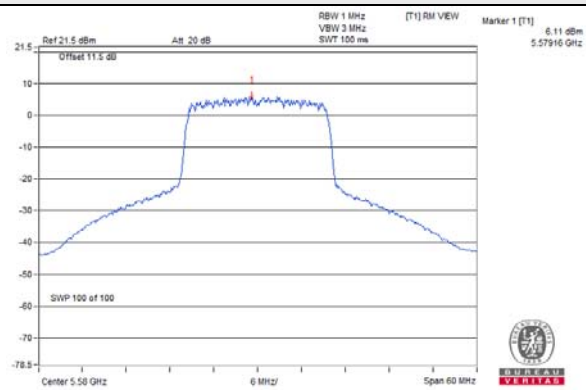
802.11ax (HE20)_RU52 / Chain 0 / CH 52



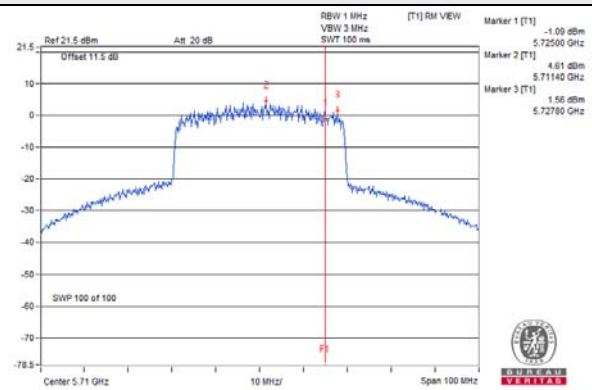
802.11ax (HE20)_RU106 / Chain 1 / CH 64



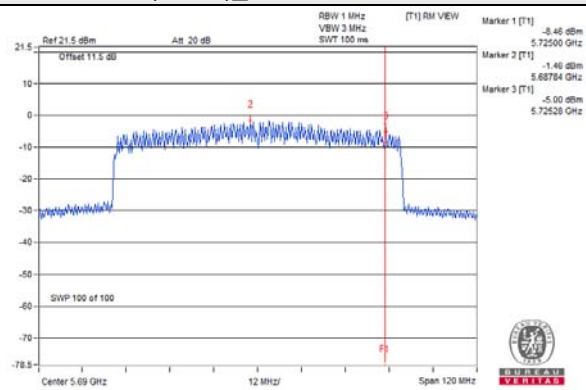
802.11ax (HE20)_Full RU / Chain 1 / CH 116



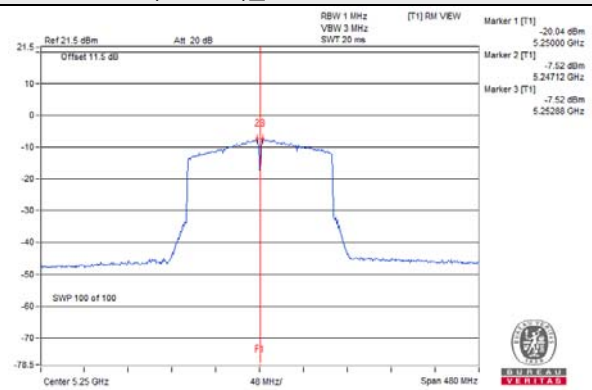
802.11ax (HE40)_Full RU / Chain 1 / CH 142



802.11ax (HE80)_Full RU / Chain 0 / CH 138



802.11ax (HE160)_Full RU / Chain 0 / CH 50



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (For U-NII-3)	-4.35	-2.13	3.01	0.69	1.57	28.07	Pass
	149	5745	-2.27	-0.05	3.01	0.69	3.65	28.07	Pass
	157	5785	-2.19	0.03	3.01	0.69	3.73	28.07	Pass
	165	5825	-1.39	0.83	3.01	0.69	4.53	28.07	Pass
1	144	5720 (For U-NII-3)	-3.77	-1.55	3.01	0.69	2.15	28.07	Pass
	149	5745	-2.00	0.22	3.01	0.69	3.92	28.07	Pass
	157	5785	-1.62	0.60	3.01	0.69	4.30	28.07	Pass
	165	5825	-2.17	0.05	3.01	0.69	3.75	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.93 - 6) = 28.07dBi.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU26

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	4.38	6.60	3.01	0.39	10.00	28.07	Pass
	165	5825	2.70	4.92	3.01	0.39	8.32	28.07	Pass
1	149	5745	4.22	6.44	3.01	0.39	9.84	28.07	Pass
	165	5825	4.91	7.13	3.01	0.39	10.53	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.93 - 6) = 28.07dBi.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU52

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	165	5825	2.92	5.14	3.01	0.39	8.54	28.07	Pass
1	165	5825	2.95	5.17	3.01	0.39	8.57	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (7.93 - 6) = 28.07\text{dBi}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_RU106

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-0.96	1.26	3.01	0.39	4.66	28.07	Pass
	165	5825	-0.68	1.54	3.01	0.39	4.94	28.07	Pass
1	149	5745	-1.00	1.22	3.01	0.39	4.62	28.07	Pass
	165	5825	-0.39	1.83	3.01	0.39	5.23	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (7.93 - 6) = 28.07\text{dBi}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)_Full RU

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (For U-NII-3)	-3.61	-1.39	3.01	0.39	2.01	28.07	Pass
	149	5745	-3.96	-1.74	3.01	0.39	1.66	28.07	Pass
	157	5785	-4.65	-2.43	3.01	0.39	0.97	28.07	Pass
	165	5825	-3.82	-1.60	3.01	0.39	1.80	28.07	Pass
1	144	5720 (For U-NII-3)	-4.53	-2.31	3.01	0.39	1.09	28.07	Pass
	149	5745	-3.90	-1.68	3.01	0.39	1.72	28.07	Pass
	157	5785	-4.40	-2.18	3.01	0.39	1.22	28.07	Pass
	165	5825	-3.43	-1.21	3.01	0.39	2.19	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.93 - 6) = 28.07dBi.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)_Full RU

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (For U-NII-3)	-9.37	-7.15	3.01	0.52	-3.62	28.07	Pass
	151	5755	-7.64	-5.42	3.01	0.52	-1.89	28.07	Pass
	159	5795	-8.62	-6.40	3.01	0.52	-2.87	28.07	Pass
1	142	5710 (For U-NII-3)	-8.22	-6.00	3.01	0.52	-2.47	28.07	Pass
	151	5755	-7.49	-5.27	3.01	0.52	-1.74	28.07	Pass
	159	5795	-6.68	-4.46	3.01	0.52	-0.93	28.07	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.93 - 6) = 28.07dBi.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)_Full RU

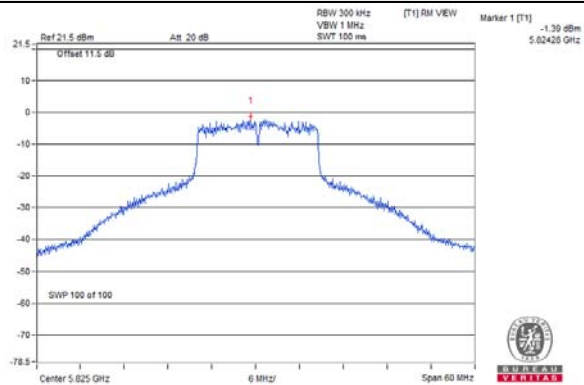
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (For U-NII-3)	-15.58	-13.36	3.01	1.02	-9.33	28.07	Pass
	155	5775	-15.70	-13.48	3.01	1.02	-9.45	28.07	Pass
1	138	5690 (For U-NII-3)	-14.32	-12.10	3.01	1.02	-8.07	28.07	Pass
	155	5775	-14.16	-11.94	3.01	1.02	-7.91	28.07	Pass

Note:

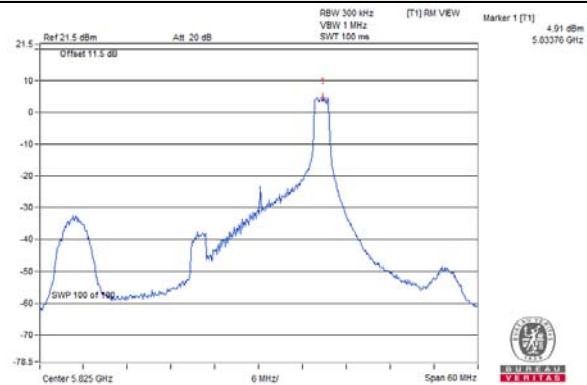
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.92dBi + 10log(2) = 7.93dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.93 - 6) = 28.07dBi.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

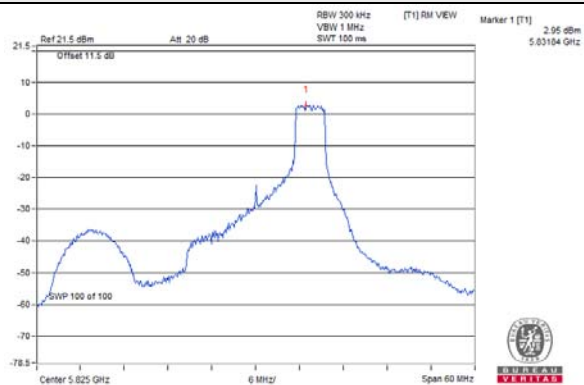
802.11a



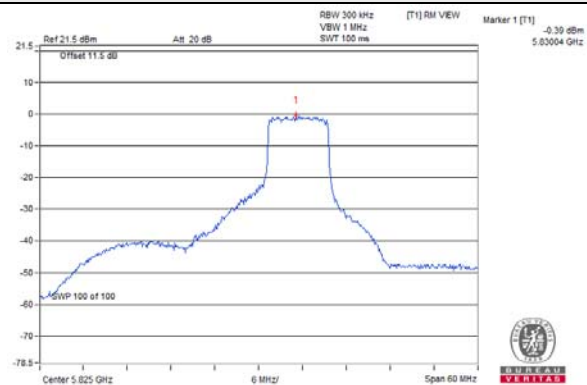
802.11ax (HE20)_RU26



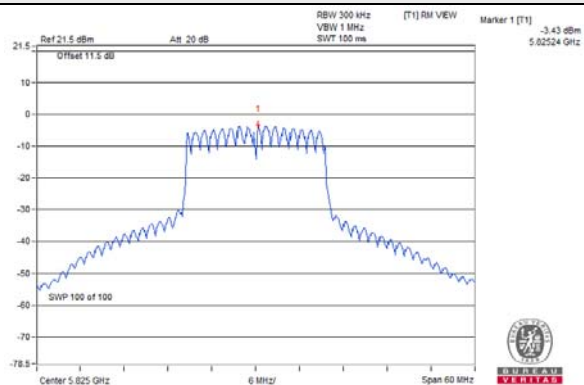
802.11ax (HE20)_RU52



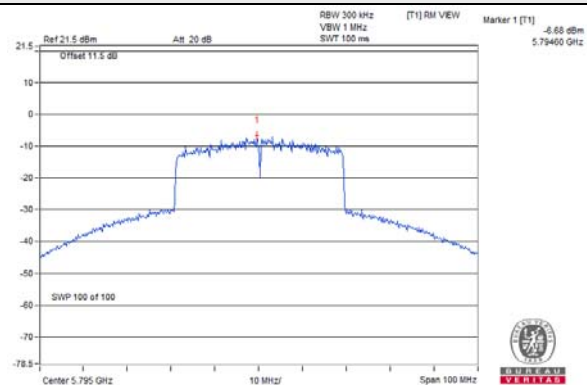
802.11ax (HE20)_RU106



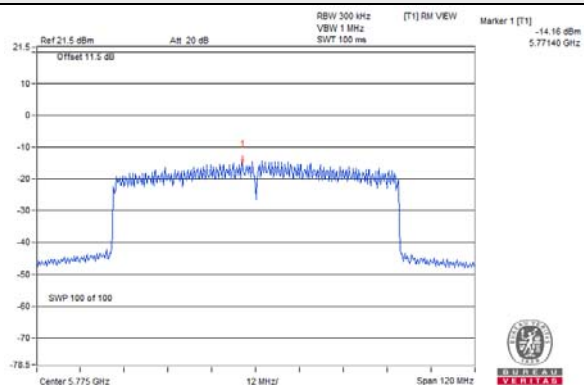
802.11ax (HE20)_Full RU



802.11ax (HE40)_Full RU



802.11ax (HE80)_Full RU

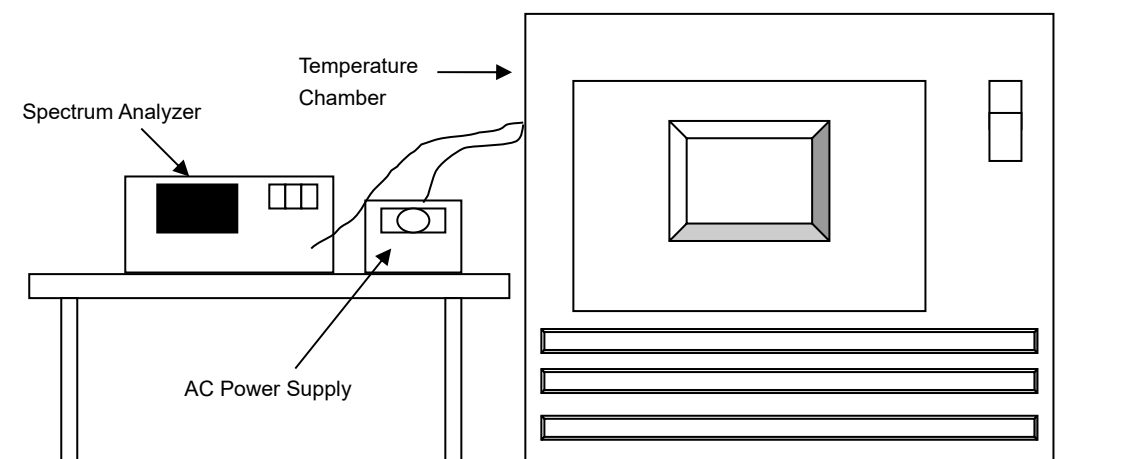


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021
AC Power Supply Extech	CFW-105	E000603	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.

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 every 10 degrees reduction until the lowest temperature achieved.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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
60	120	5180.0109	Pass	5180.0106	Pass	5180.0125	Pass	5180.0122	Pass
50	120	5180.0033	Pass	5180.0013	Pass	5180.0032	Pass	5179.9998	Pass
40	120	5179.9785	Pass	5179.9783	Pass	5179.9821	Pass	5179.9772	Pass
30	120	5180.0024	Pass	5180.004	Pass	5180.0009	Pass	5180.002	Pass
20	120	5179.9791	Pass	5179.9814	Pass	5179.9784	Pass	5179.979	Pass
10	120	5180.0147	Pass	5180.0132	Pass	5180.0103	Pass	5180.0098	Pass
0	120	5180.0148	Pass	5180.0124	Pass	5180.0148	Pass	5180.0126	Pass
-10	120	5180.0181	Pass	5180.0182	Pass	5180.0178	Pass	5180.0162	Pass
-20	120	5180.0132	Pass	5180.0104	Pass	5180.0125	Pass	5180.0084	Pass

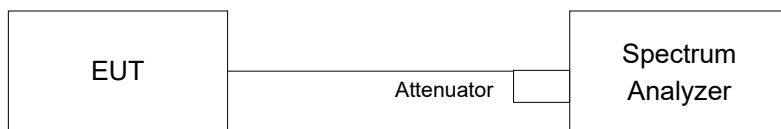
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9781	Pass	5179.9807	Pass	5179.9792	Pass	5179.9781	Pass
	120	5179.9791	Pass	5179.9814	Pass	5179.9784	Pass	5179.979	Pass
	102	5179.9791	Pass	5179.9816	Pass	5179.9782	Pass	5179.9782	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	3.24	3.26	0.5	Pass
149	5745	16.34	16.38	0.5	Pass
157	5785	16.34	16.38	0.5	Pass
165	5825	16.36	16.38	0.5	Pass

For CH144 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)_Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	4.62	4.61	0.5	Pass
149	5745	18.72	18.85	0.5	Pass
157	5785	18.81	18.85	0.5	Pass
165	5825	18.75	18.90	0.5	Pass

For CH144 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)_Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (For U-NII-3)	3.86	3.26	0.5	Pass
151	5755	35.32	36.30	0.5	Pass
159	5795	36.43	35.68	0.5	Pass

For CH142 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

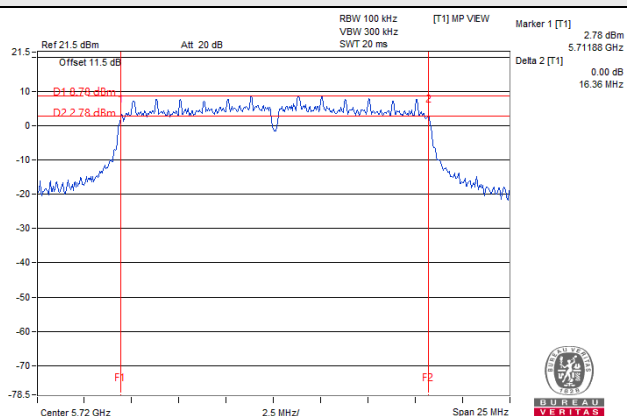
802.11ax (HE80)_Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (For U-NII-3)	2.76	2.73	0.5	Pass
155	5775	75.45	75.38	0.5	Pass

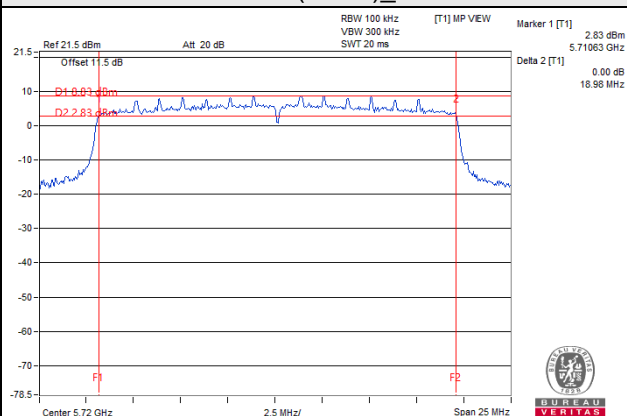
For CH138 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

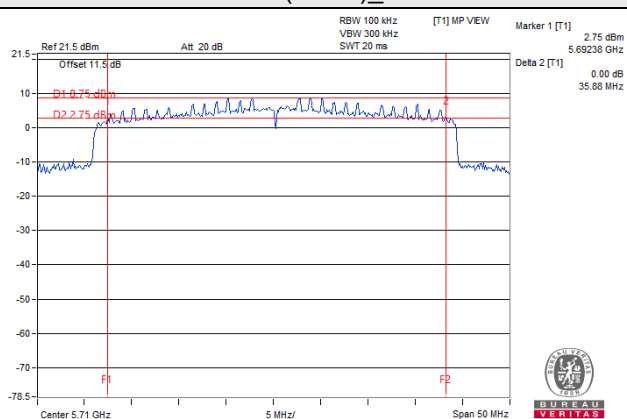
802.11a



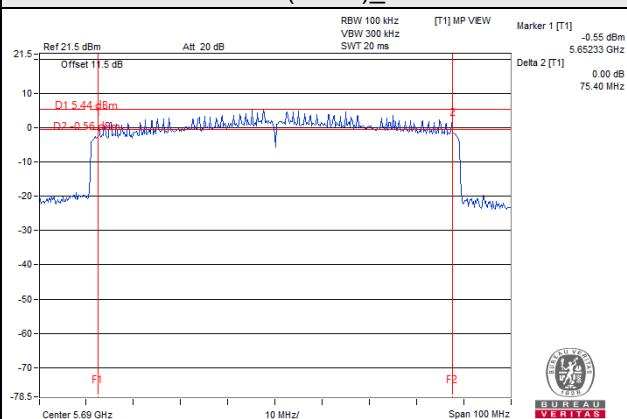
802.11ax (HE20)_RU52



802.11ax (HE40)_Full RU



802.11ax (HE80)_Full RU

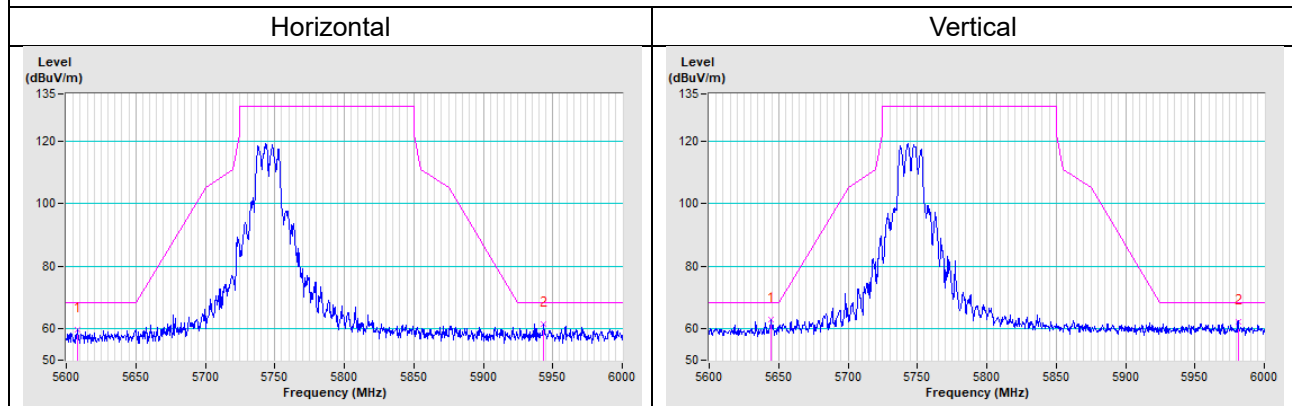


5 Pictures of Test Arrangements

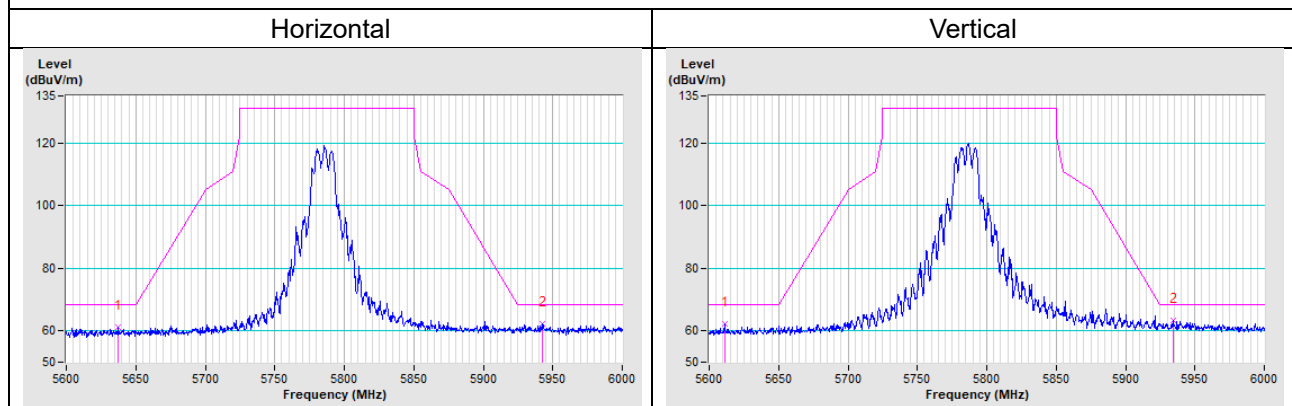
Please refer to the attached file (Test Setup Photo).

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

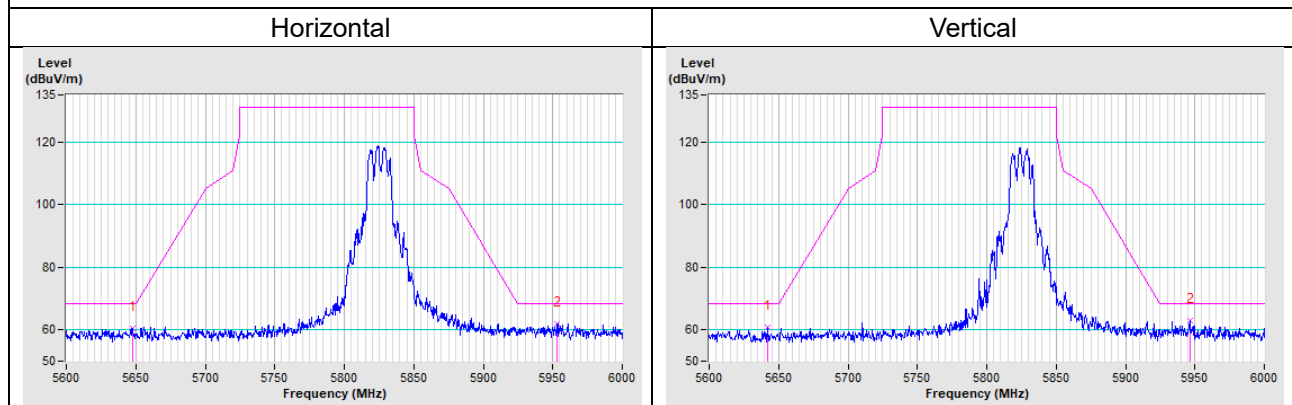
802.11a CH 149 : 5745 MHz



802.11a CH 157 : 5785 MHz

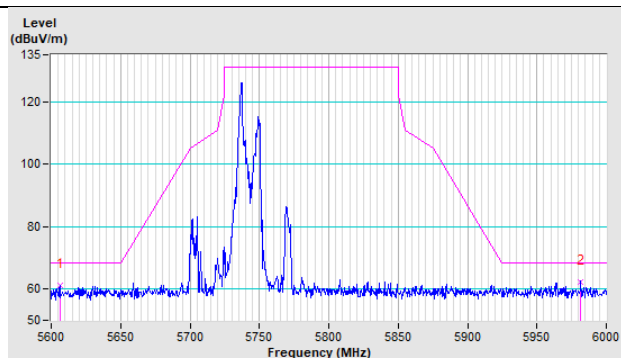


802.11a CH 165 : 5825 MHz

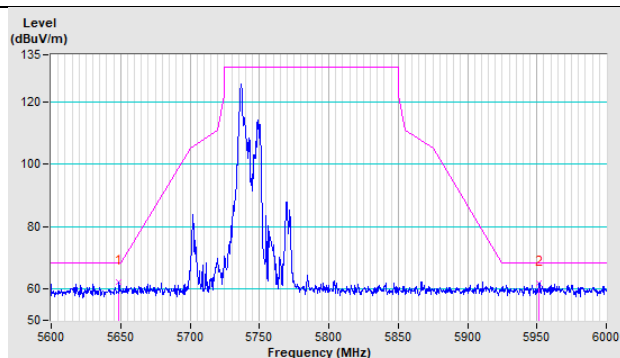


802.11ax (HE20)_RU26 CH 149 : 5745 MHz

Horizontal

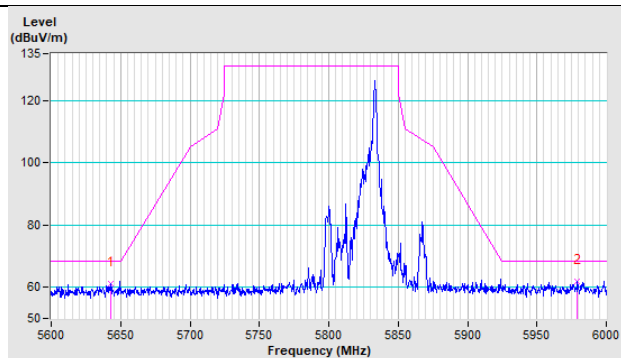


Vertical

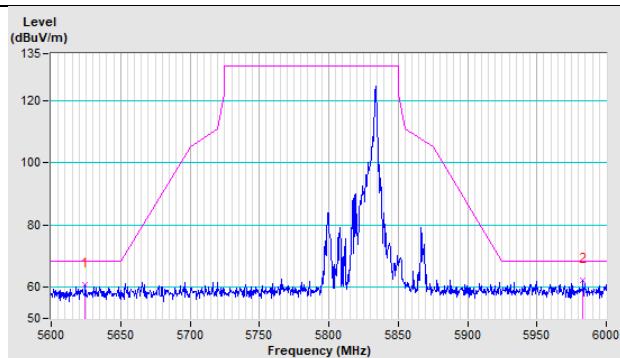


802.11ax (HE20)_RU26 CH 165 : 5825 MHz

Horizontal

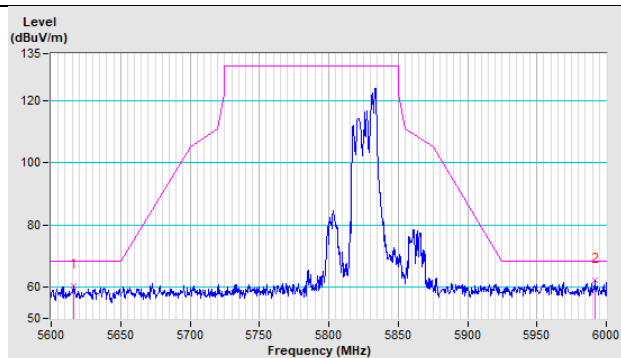


Vertical

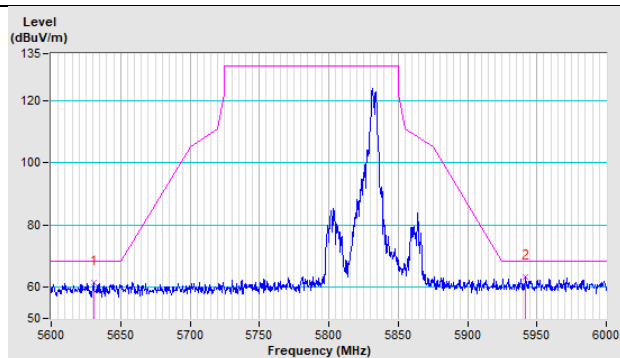


802.11ax (HE20)_RU52 CH 165 : 5825 MHz

Horizontal

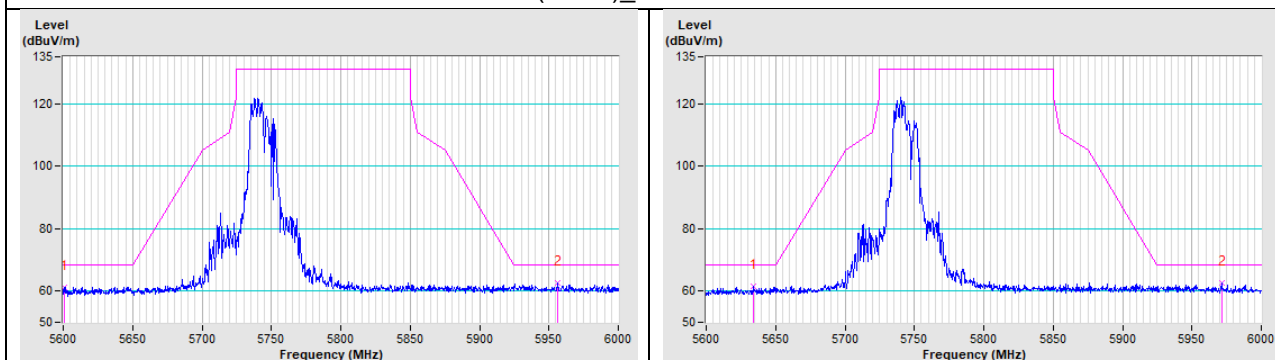


Vertical



Horizontal

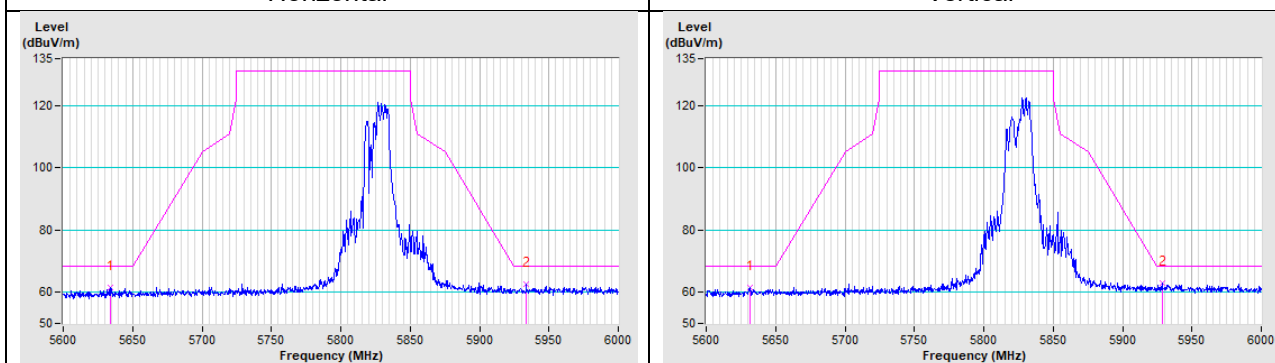
Vertical802.11ax (HE20)_RU106 CH 149 : 5745 MHz



802.11ax (HE20)_RU106 CH 165 : 5825 MHz

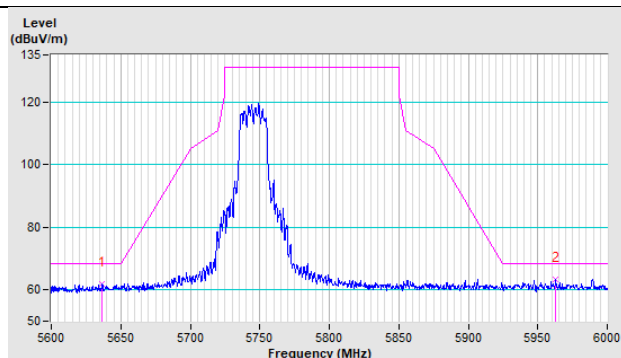
Horizontal

Vertical

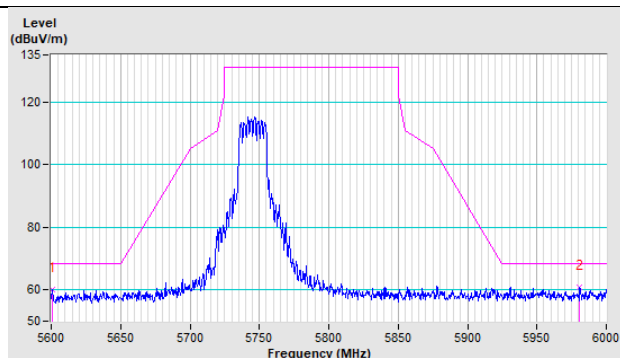


802.11ax (HE20)_Full RU CH 149 : 5745 MHz

Horizontal

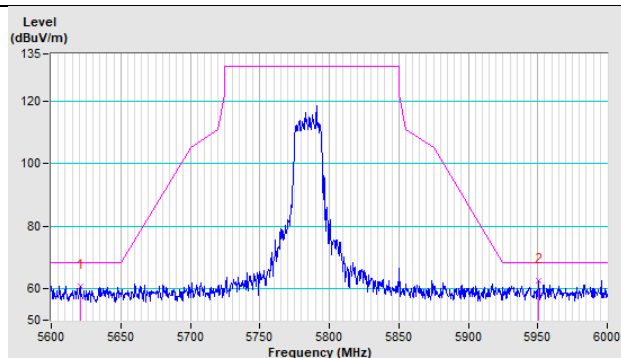


Vertical

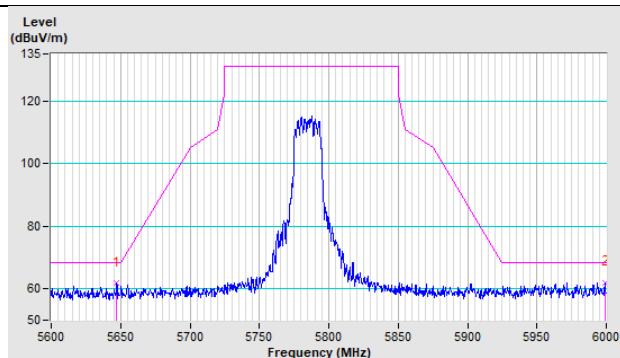


802.11ax (HE20)_Full RU CH 157 : 5785 MHz

Horizontal

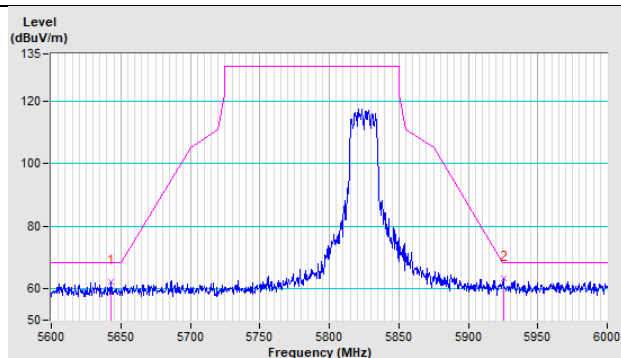


Vertical

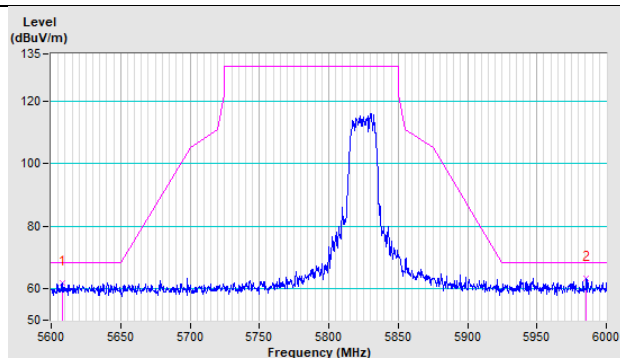


802.11ax (HE20)_Full RU CH 165 : 5825 MHz

Horizontal

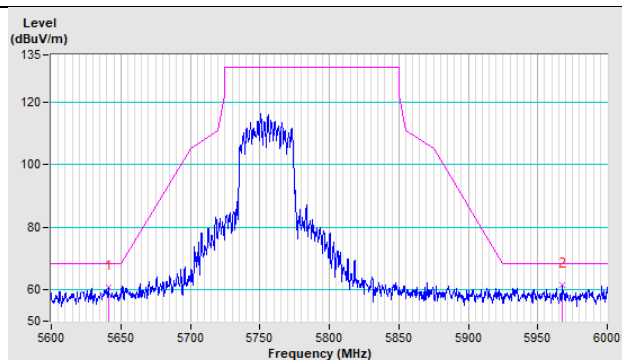


Vertical

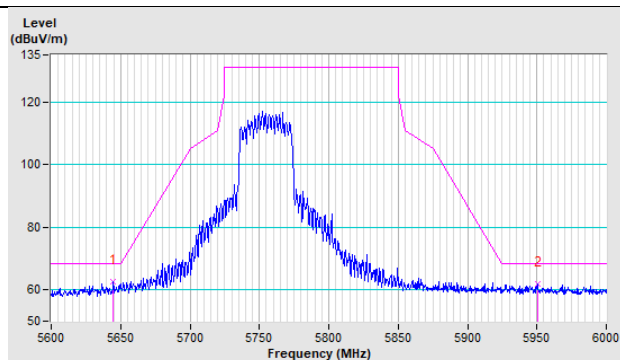


802.11ax (HE40)_Full RU CH 151 : 5755 MHz

Horizontal

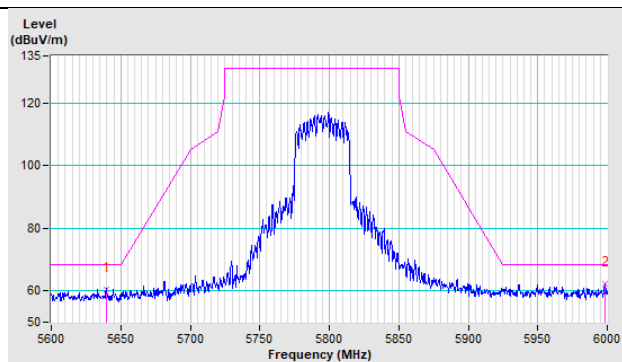


Vertical

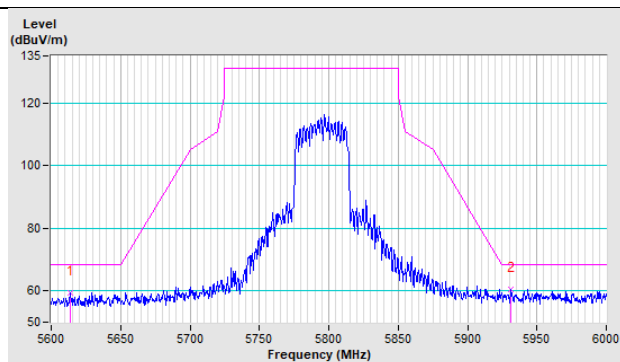


802.11ax (HE40)_Full RU CH 159 : 5795 MHz

Horizontal

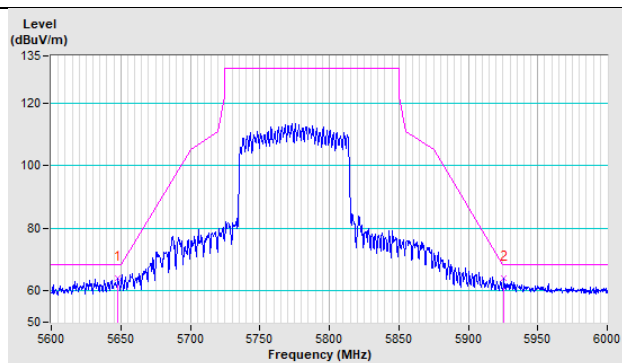


Vertical

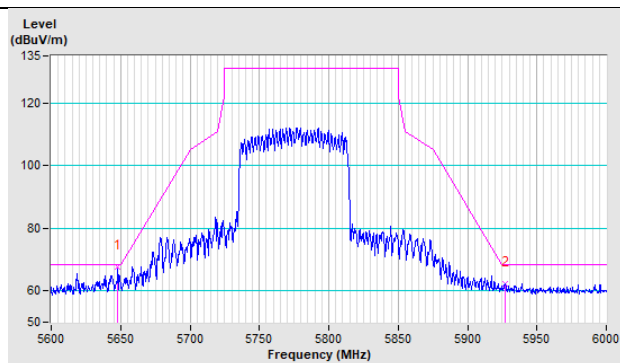


802.11ax (HE80)_Full RU CH 155 : 5775 MHz

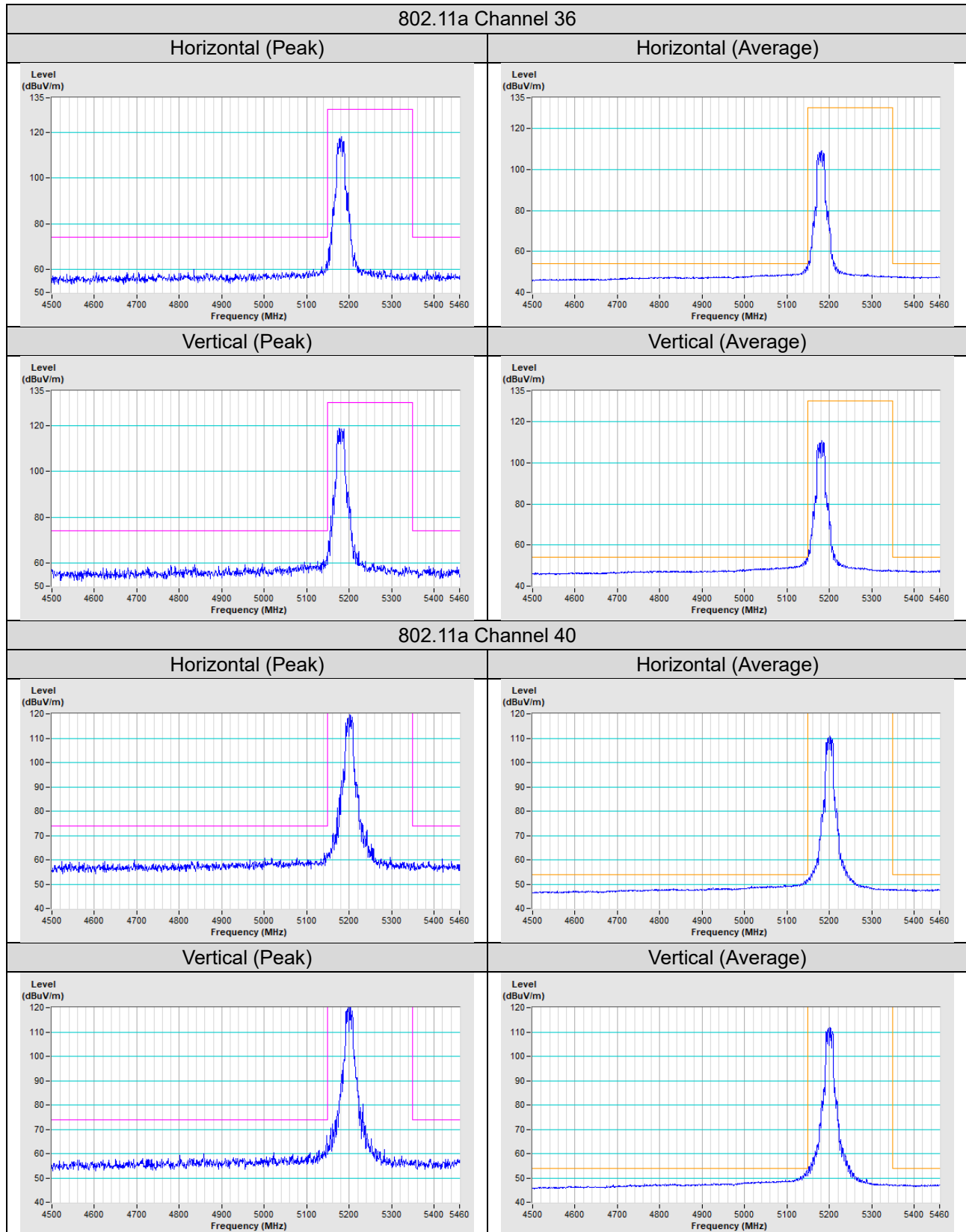
Horizontal



Vertical

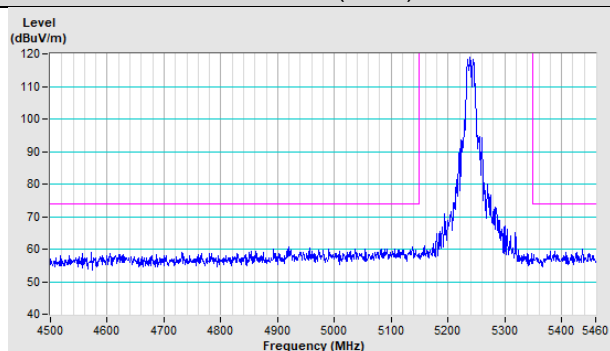


Annex B - Band Edge Measurement

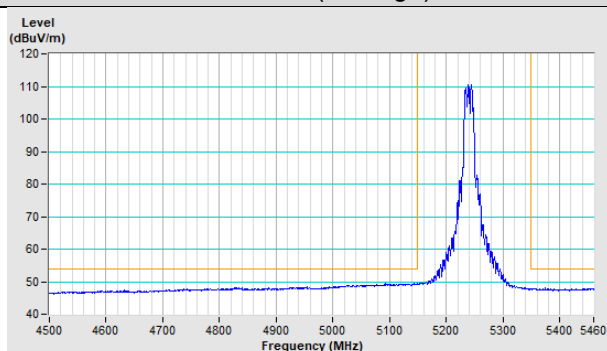


802.11a Channel 48

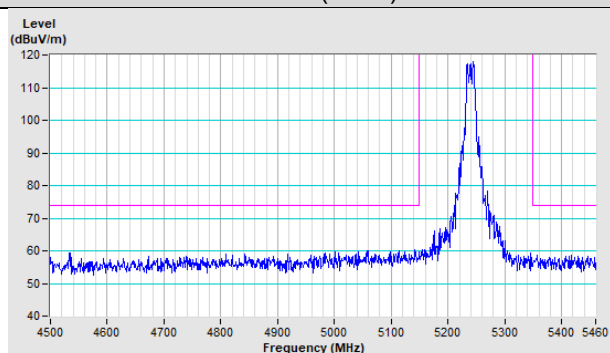
Horizontal (Peak)



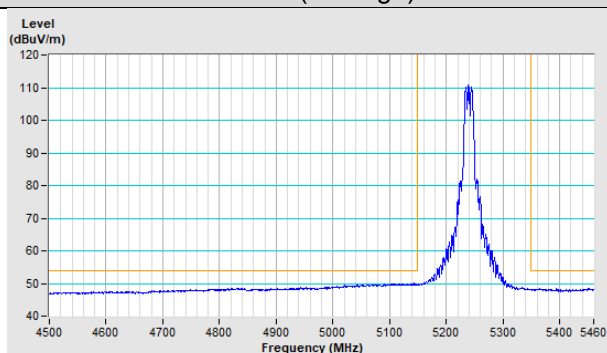
Horizontal (Average)



Vertical (Peak)

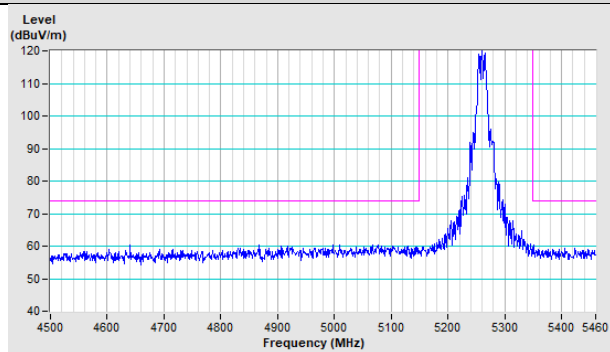


Vertical (Average)

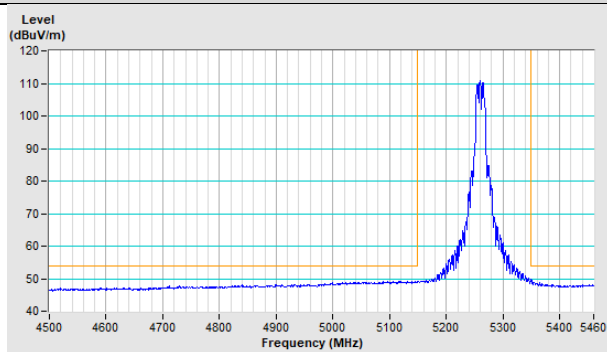


802.11a Channel 52

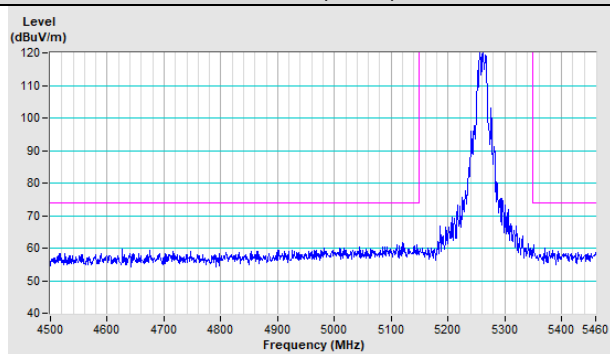
Horizontal (Peak)



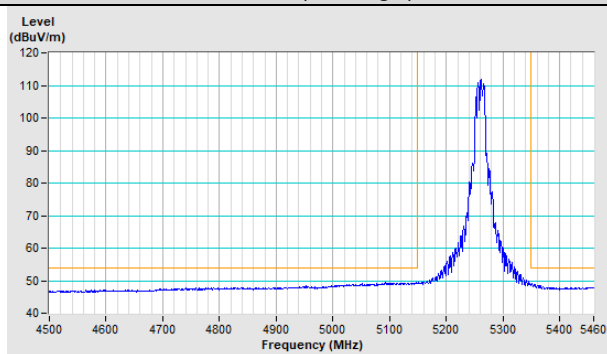
Horizontal (Average)



Vertical (Peak)

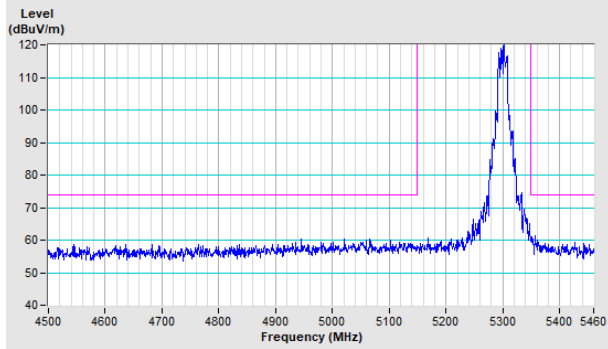


Vertical (Average)

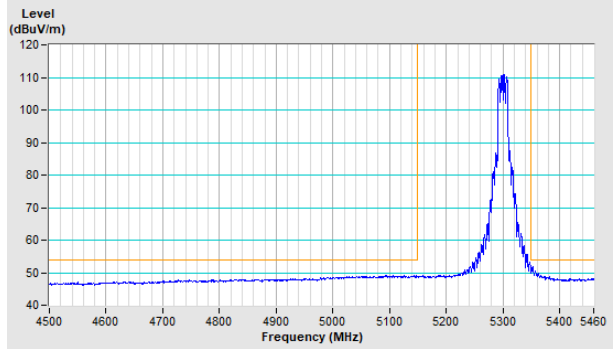


802.11a Channel 60

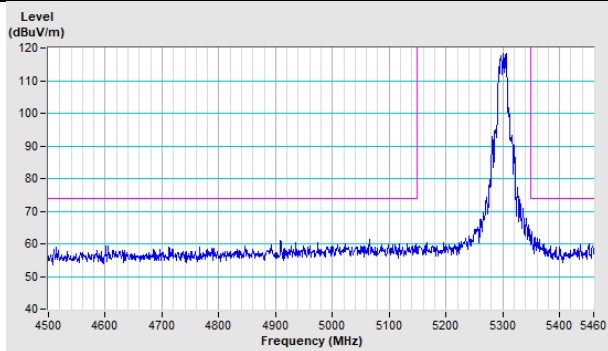
Horizontal (Peak)



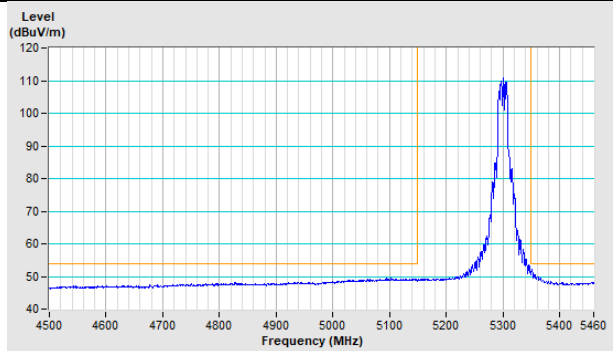
Horizontal (Average)



Vertical (Peak)

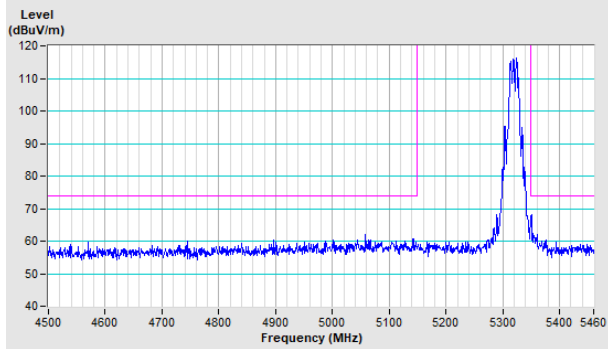


Vertical (Average)

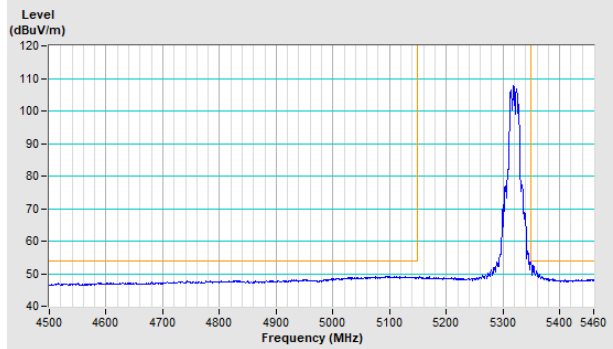


802.11a Channel 64

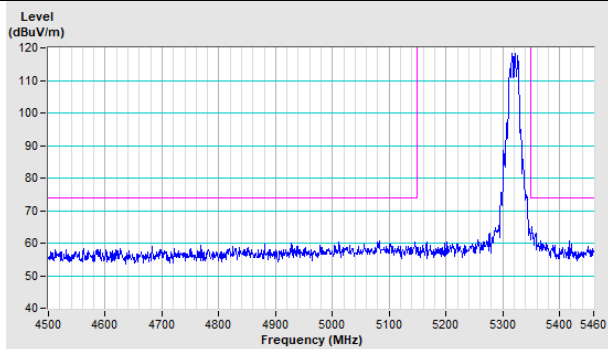
Horizontal (Peak)



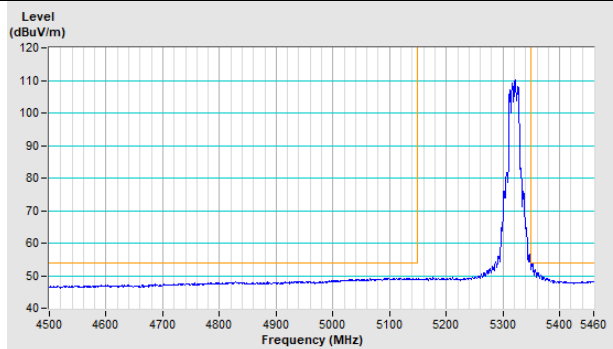
Horizontal (Average)



Vertical (Peak)

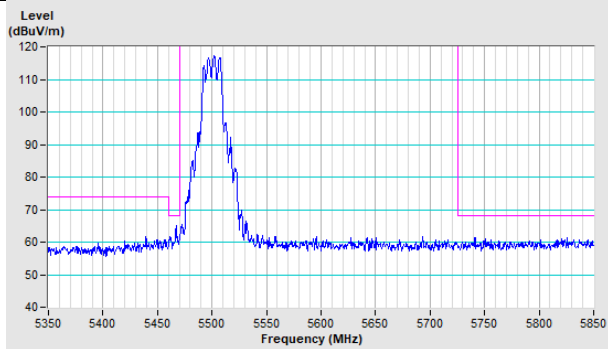


Vertical (Average)

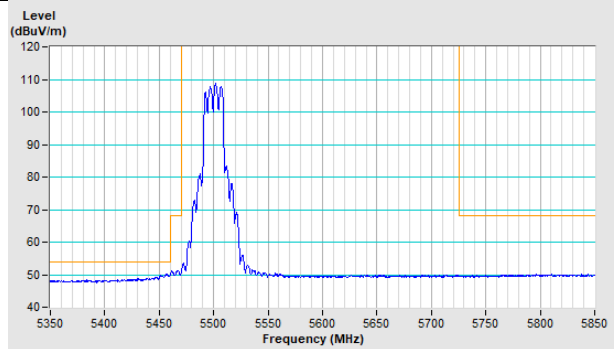


802.11a Channel 100

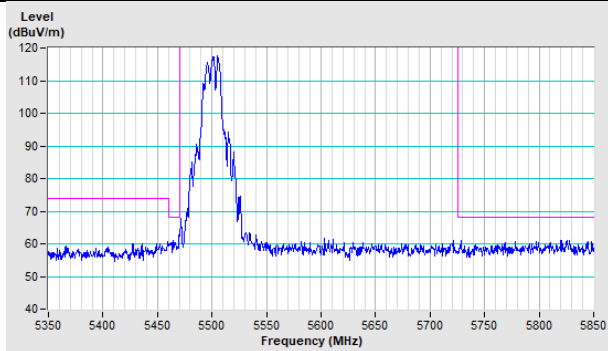
Horizontal (Peak)



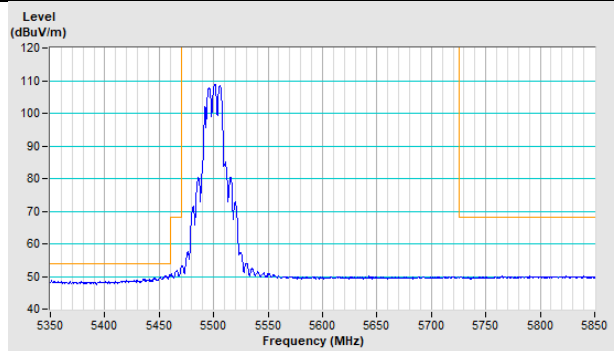
Horizontal (Average)



Vertical (Peak)

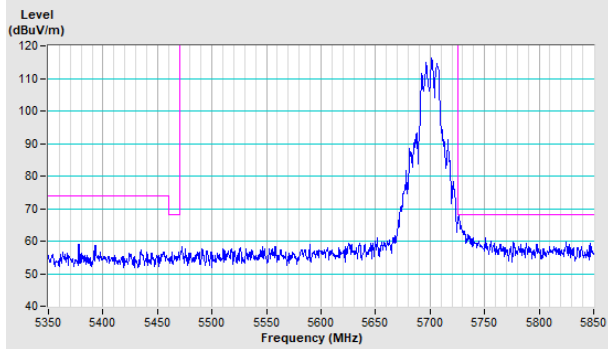


Vertical (Average)

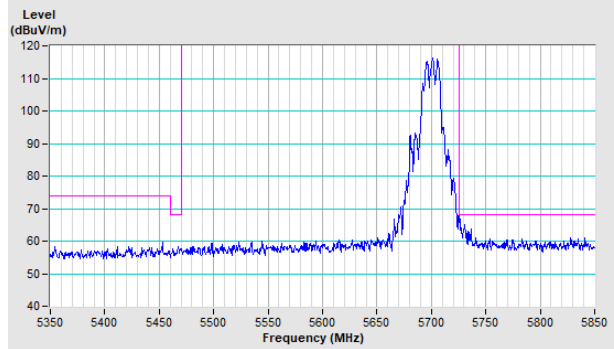


802.11a Channel 140

Horizontal (Peak)

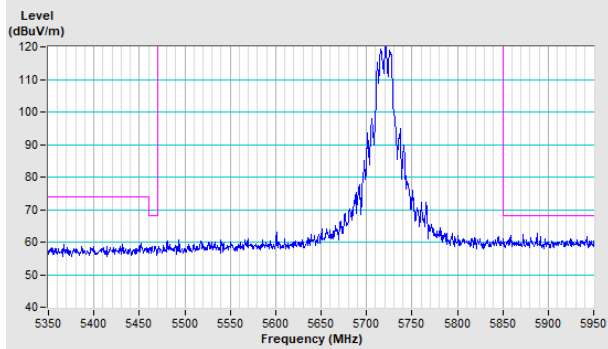


Vertical (Peak)

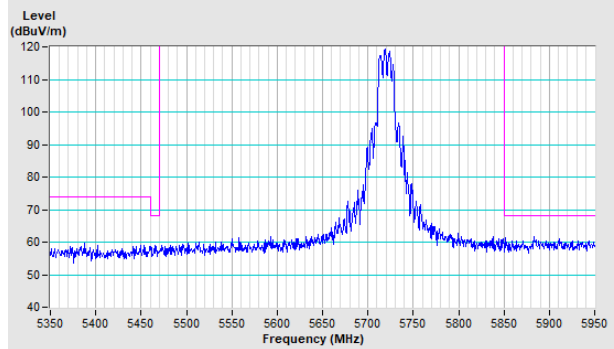


802.11a Channel 144

Horizontal (Peak)

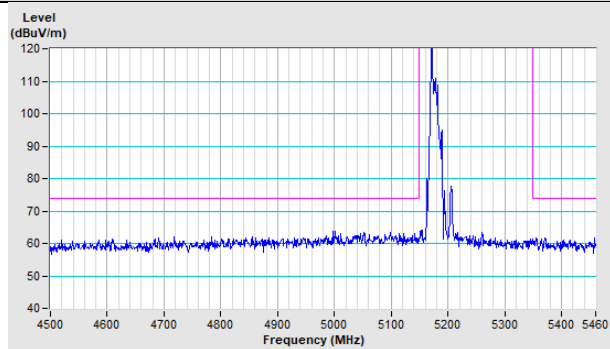


Vertical (Peak)

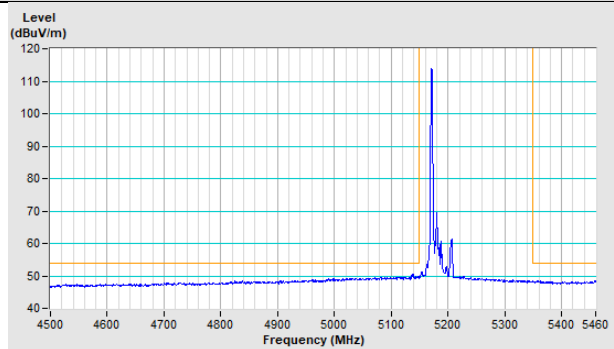


802.11ax (HE20)_RU26 Channel 36

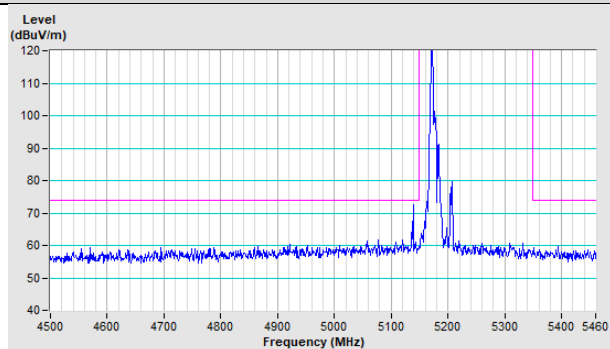
Horizontal (Peak)



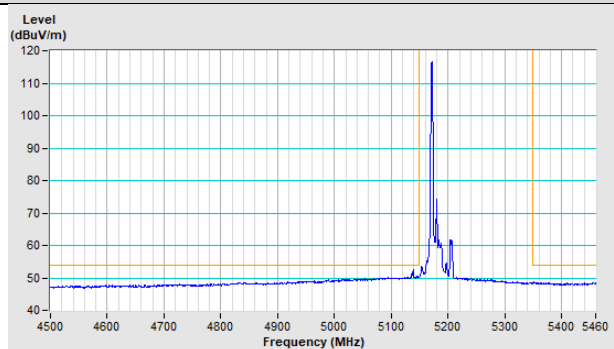
Horizontal (Average)



Vertical (Peak)

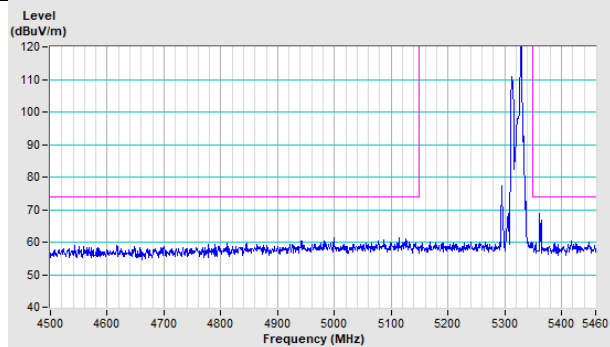


Vertical (Average)

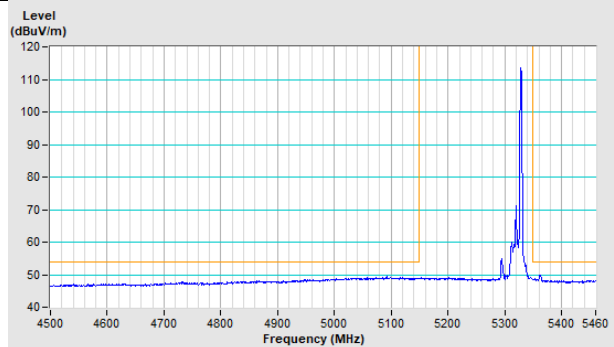


802.11ax (HE20)_RU26 Channel 64

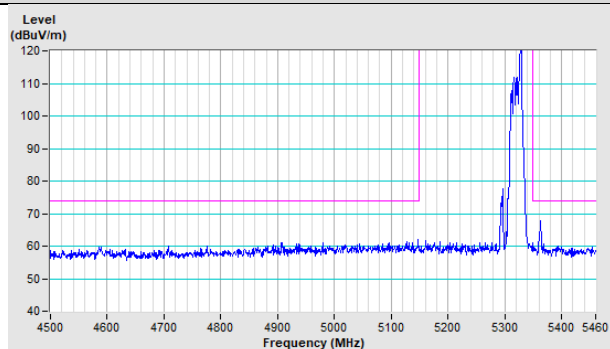
Horizontal (Peak)



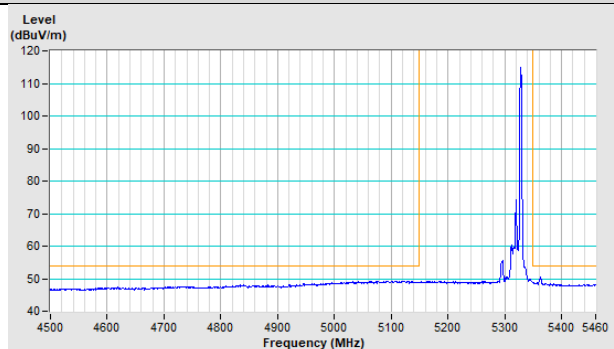
Horizontal (Average)



Vertical (Peak)

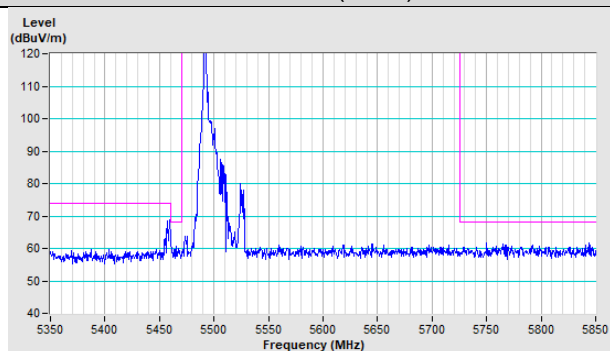


Vertical (Average)

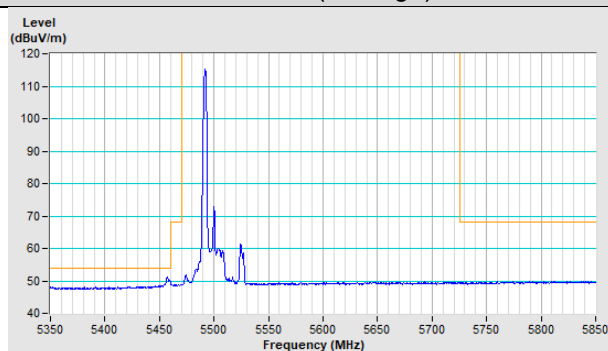


802.11ax (HE20)_RU26 Channel 100

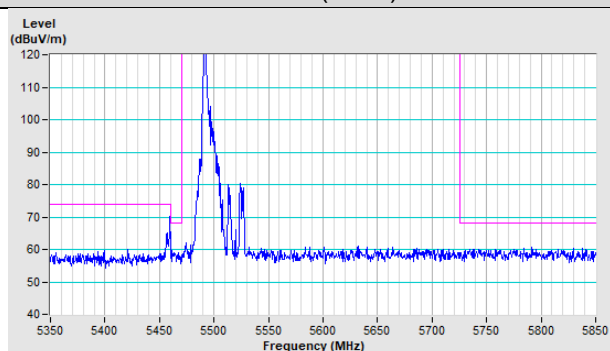
Horizontal (Peak)



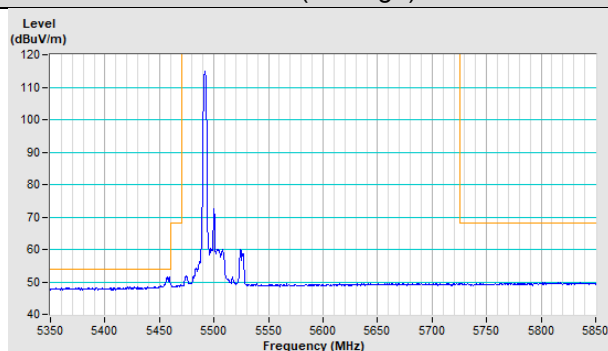
Horizontal (Average)



Vertical (Peak)

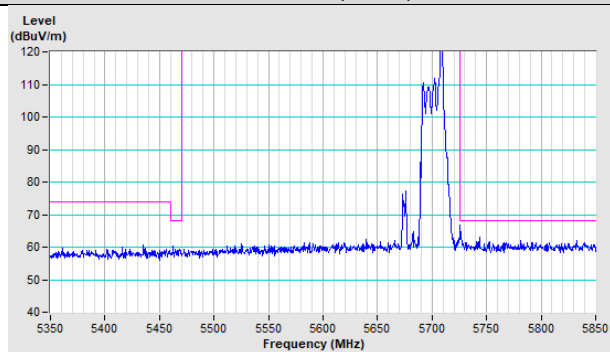


Vertical (Average)

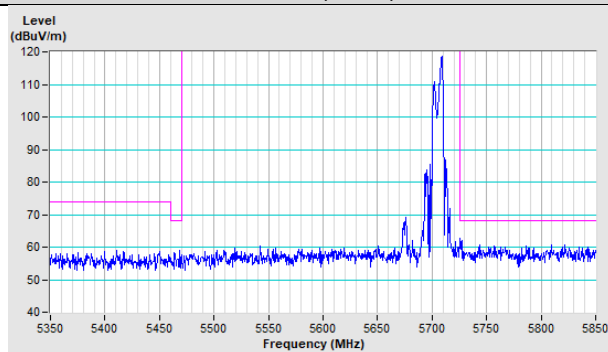


802.11ax (HE20)_RU26 Channel 140

Horizontal (Peak)

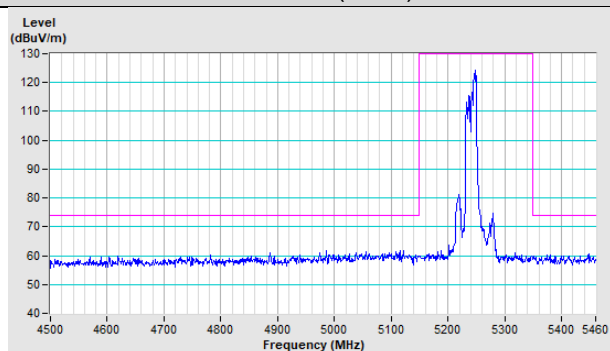


Vertical (Peak)

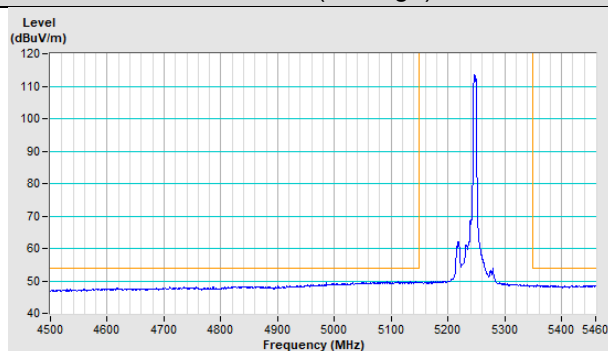


802.11ax (HE20)_RU52 Channel 48

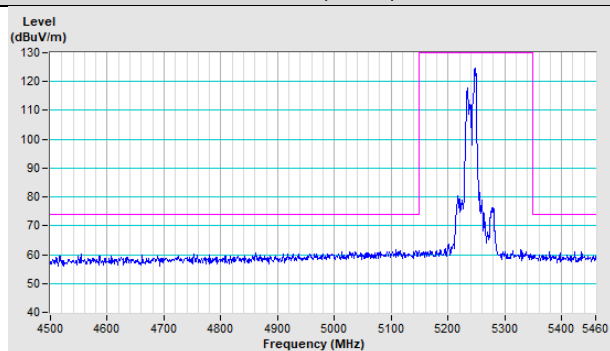
Horizontal (Peak)



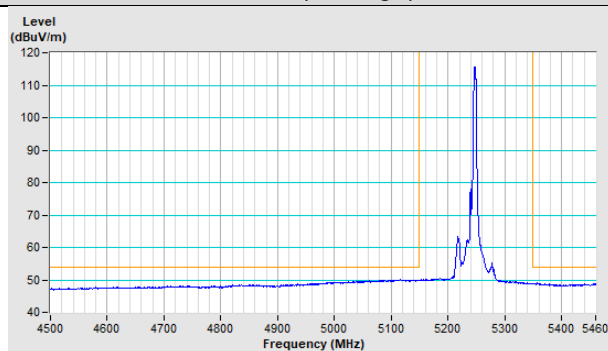
Horizontal (Average)



Vertical (Peak)

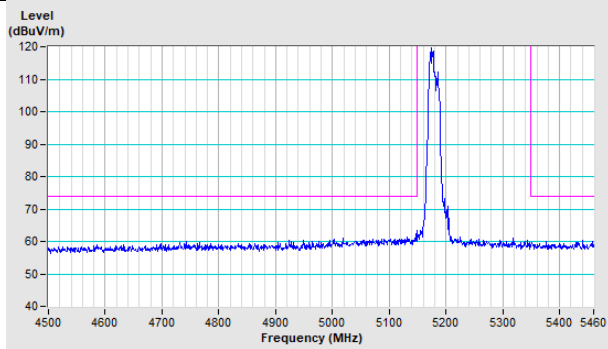


Vertical (Average)

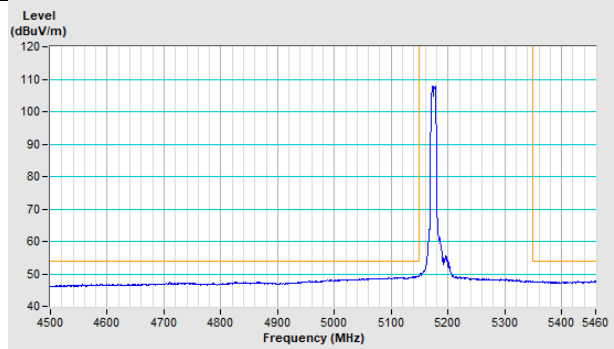


802.11ax (HE20)_RU106 Channel 36

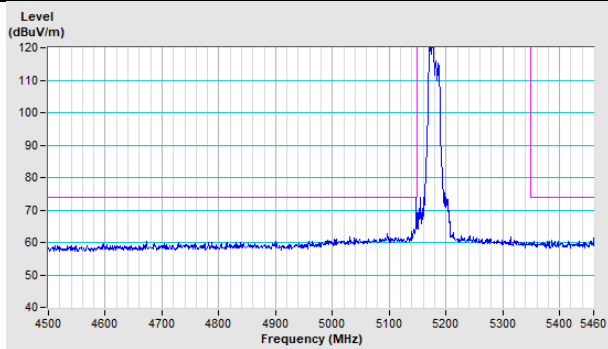
Horizontal (Peak)



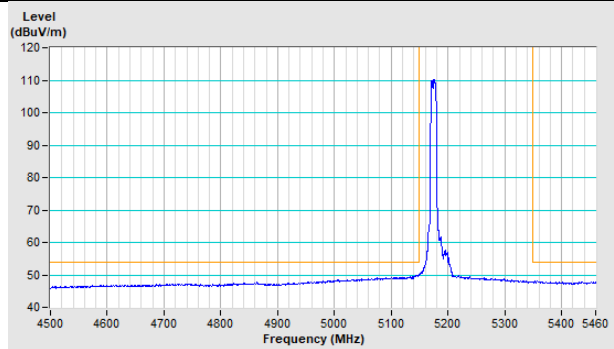
Horizontal (Average)



Vertical (Peak)

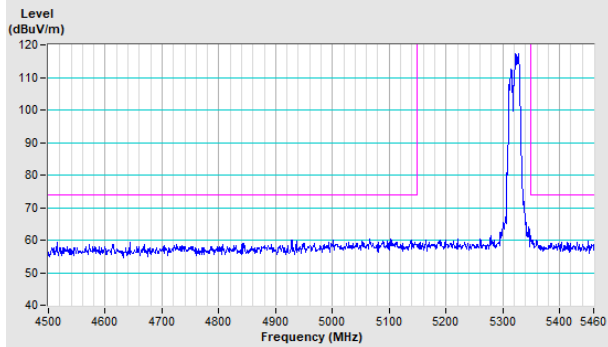


Vertical (Average)

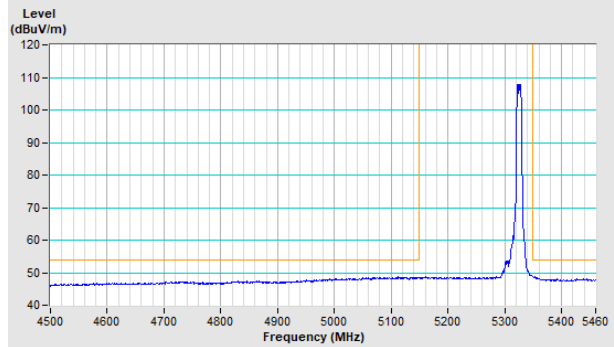


802.11ax (HE20)_RU106 Channel 64

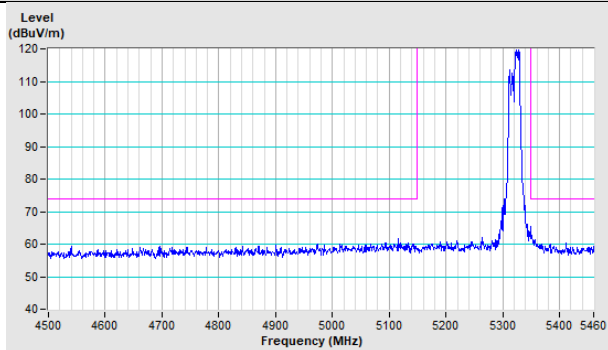
Horizontal (Peak)



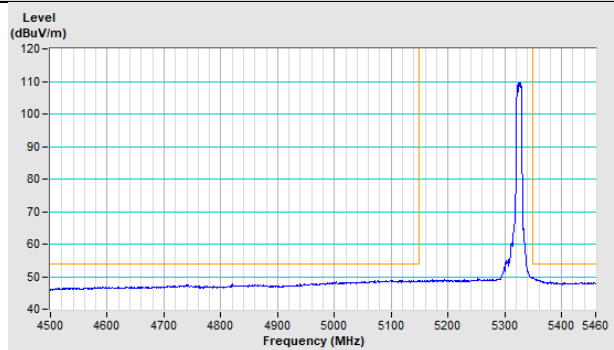
Horizontal (Average)



Vertical (Peak)

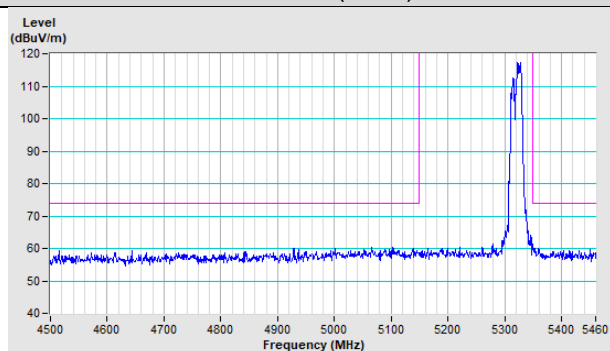


Vertical (Average)

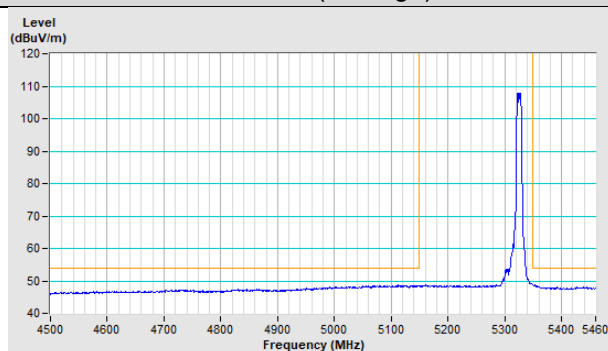


802.11ax (HE20)_RU106 Channel 100

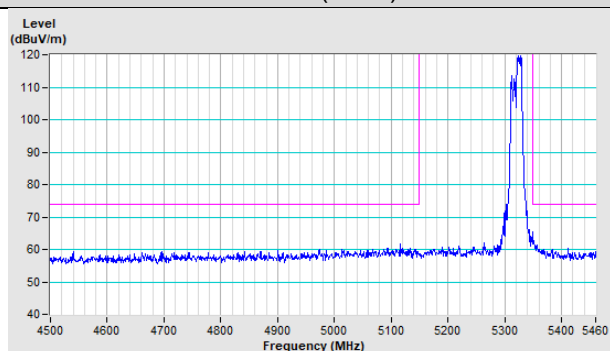
Horizontal (Peak)



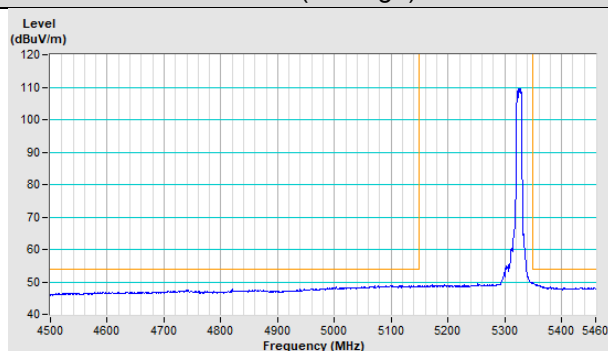
Horizontal (Average)



Vertical (Peak)

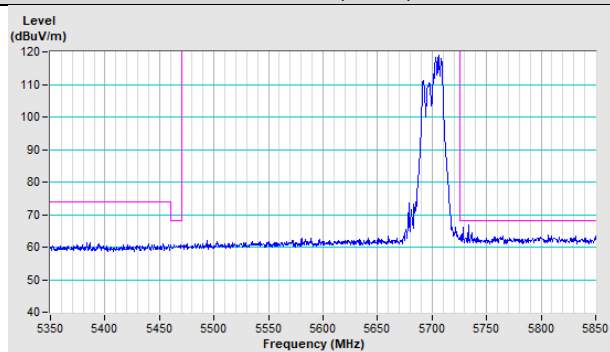


Vertical (Average)

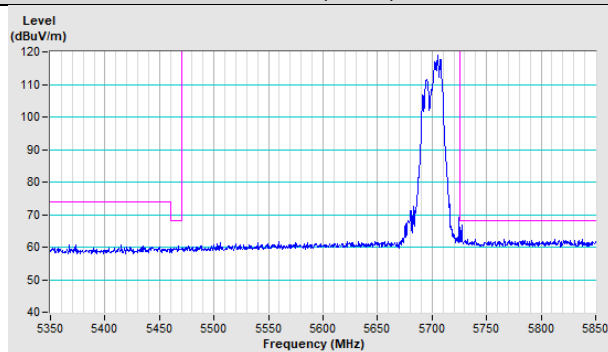


802.11ax (HE20)_RU106 Channel 140

Horizontal (Peak)

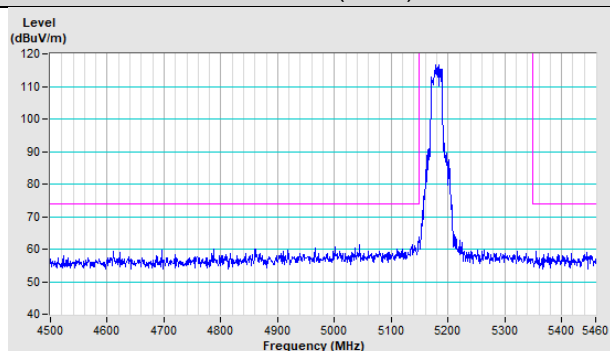


Vertical (Peak)

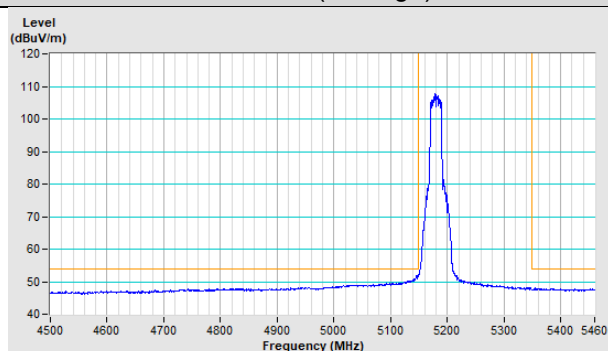


802.11ax (HE20)_Full RU Channel 36

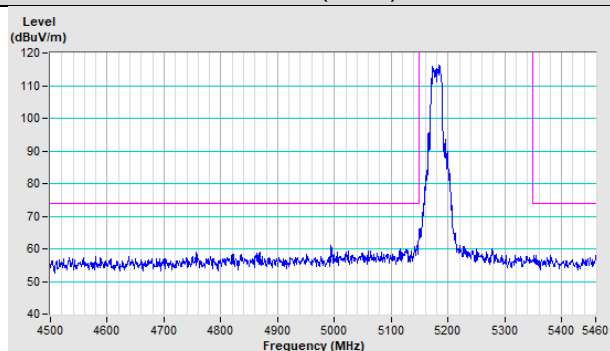
Horizontal (Peak)



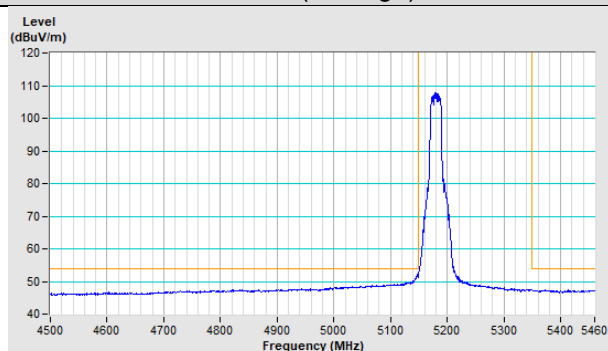
Horizontal (Average)



Vertical (Peak)

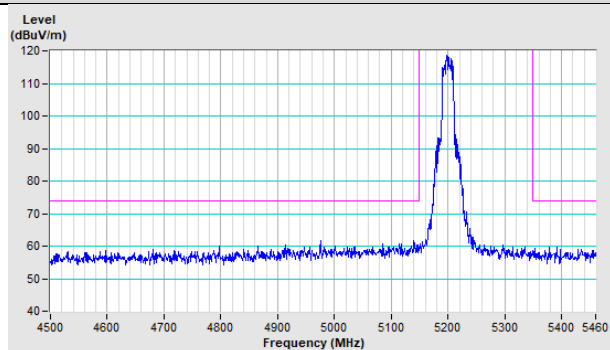


Vertical (Average)

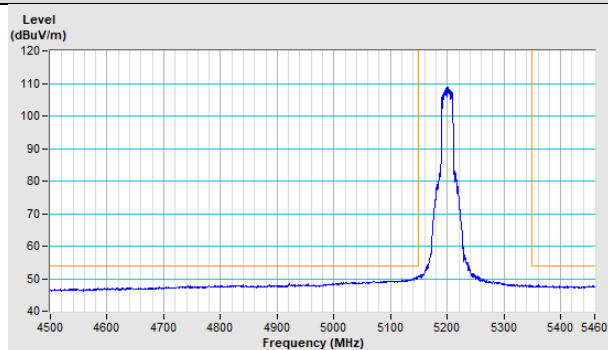


802.11ax (HE20)_Full RU Channel 40

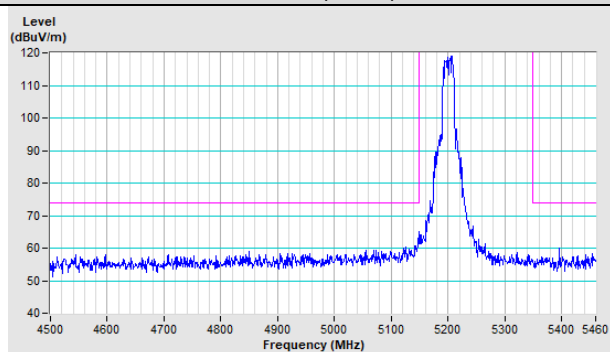
Horizontal (Peak)



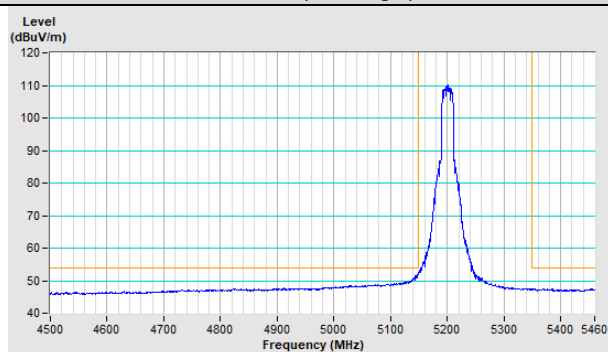
Horizontal (Average)



Vertical (Peak)

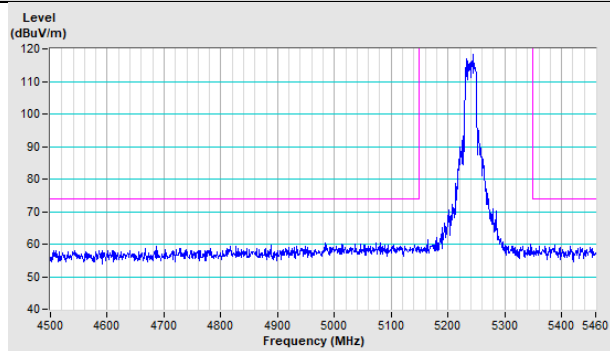


Vertical (Average)

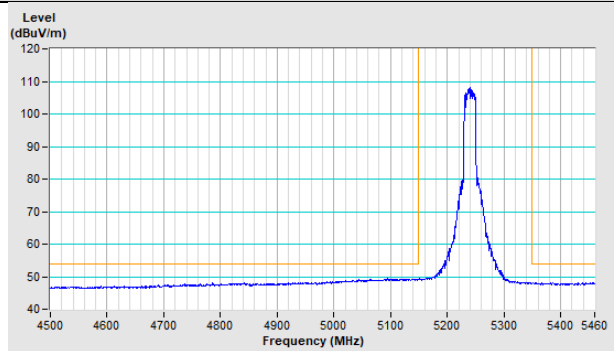


802.11ax (HE20)_Full RU Channel 48

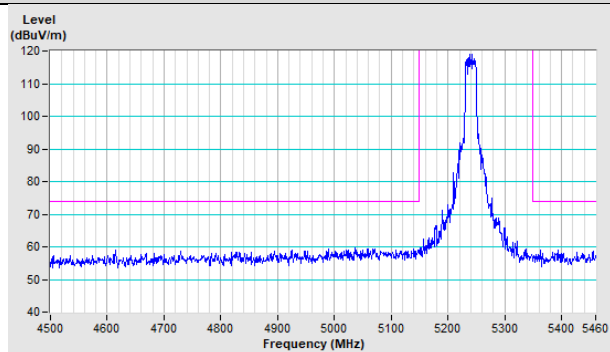
Horizontal (Peak)



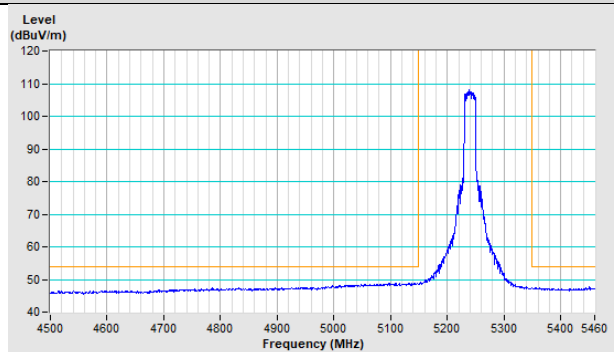
Horizontal (Average)



Vertical (Peak)

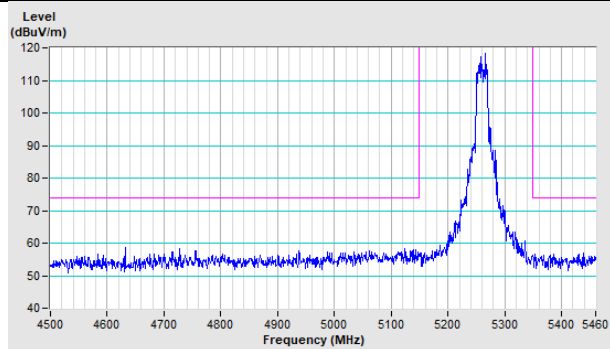


Vertical (Average)

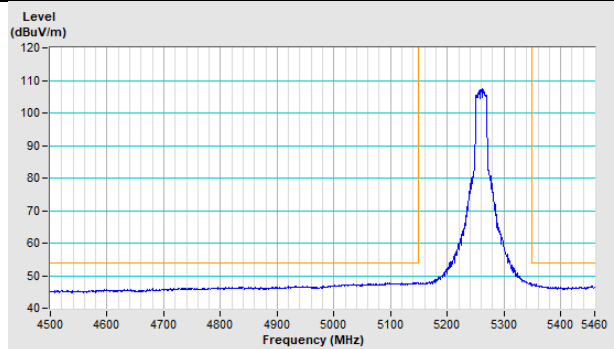


802.11ax (HE20)_Full RU Channel 52

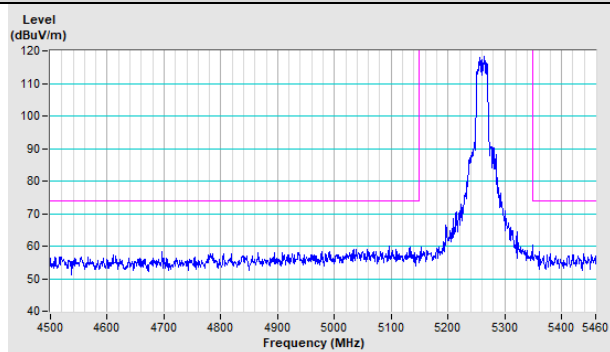
Horizontal (Peak)



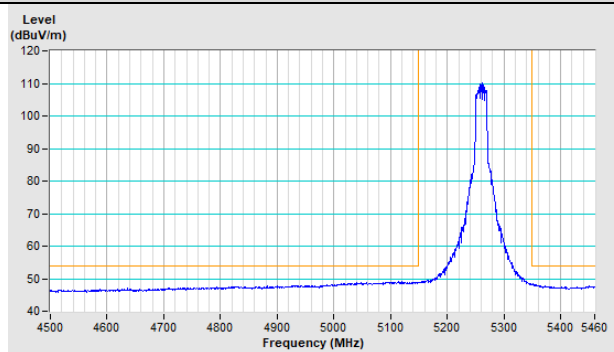
Horizontal (Average)



Vertical (Peak)

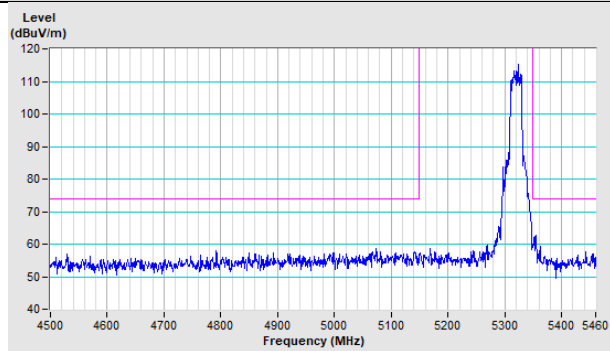


Vertical (Average)

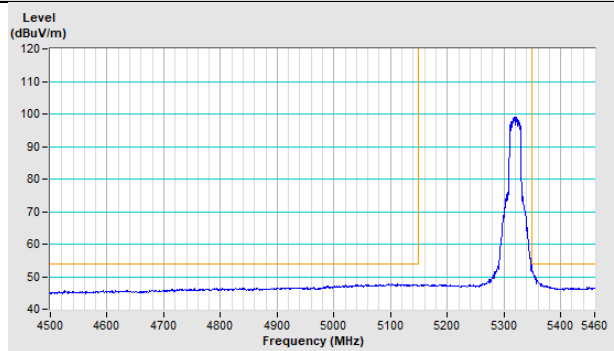


802.11ax (HE20)_Full RU Channel 64

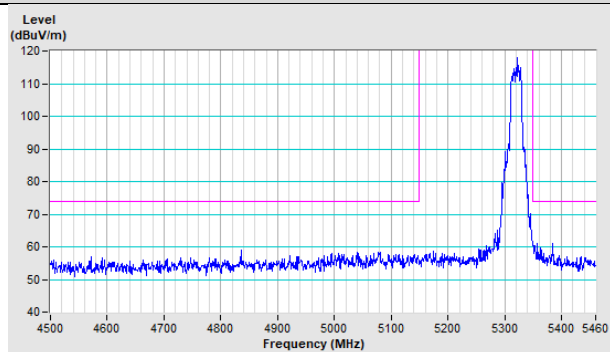
Horizontal (Peak)



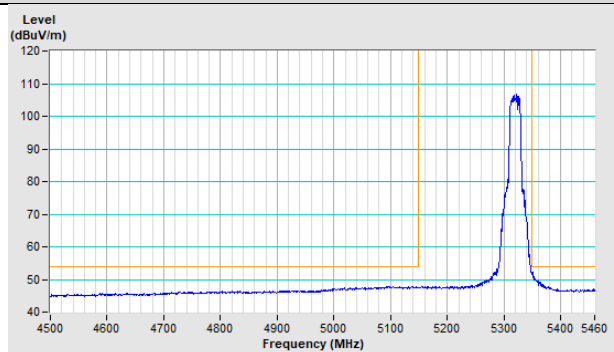
Horizontal (Average)



Vertical (Peak)

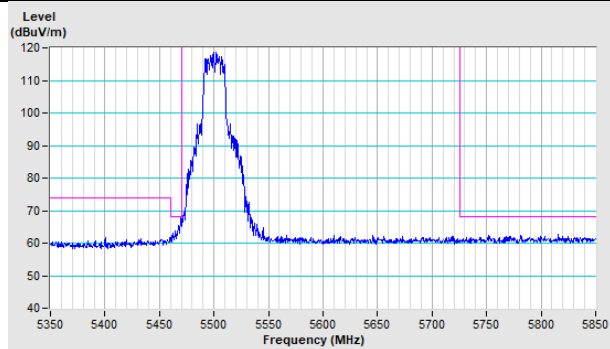


Vertical (Average)

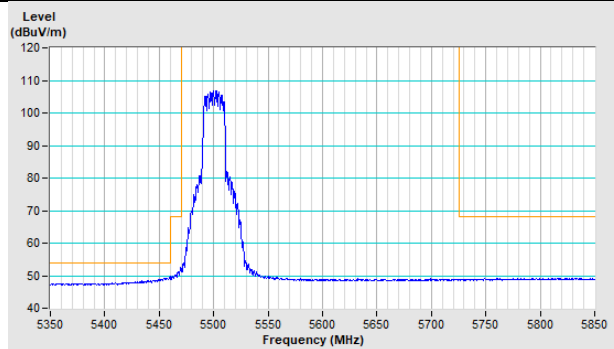


802.11ax (HE20)_Full RU Channel 100

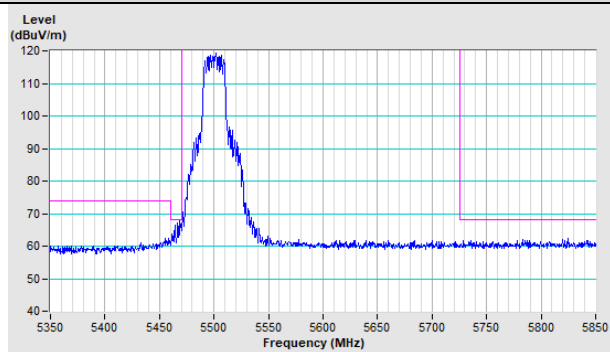
Horizontal (Peak)



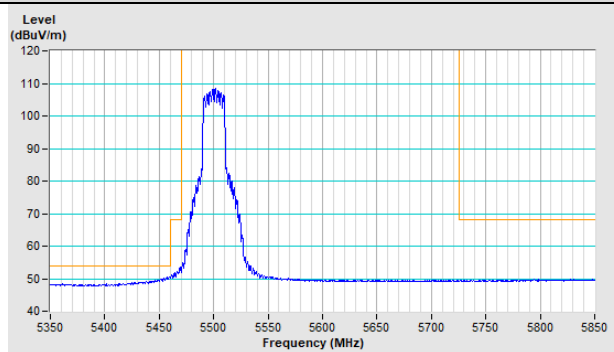
Horizontal (Average)



Vertical (Peak)

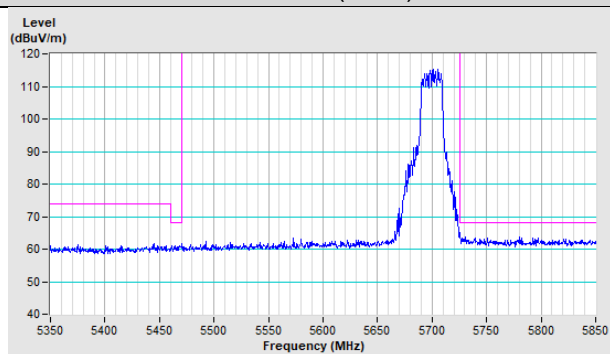


Vertical (Average)

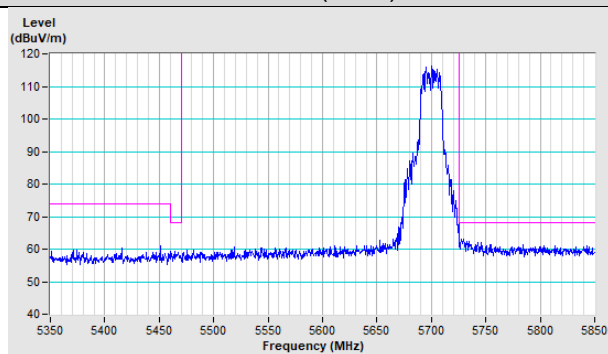


802.11ax (HE20)_Full RU Channel 140

Horizontal (Peak)

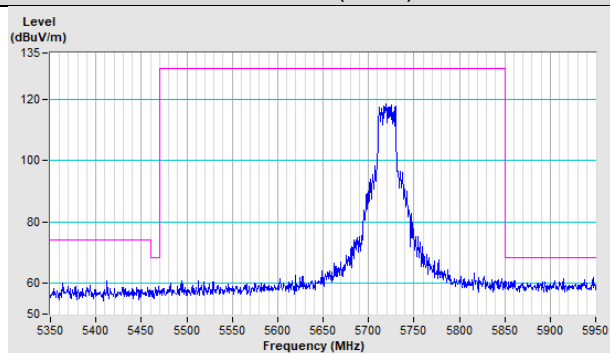


Vertical (Peak)

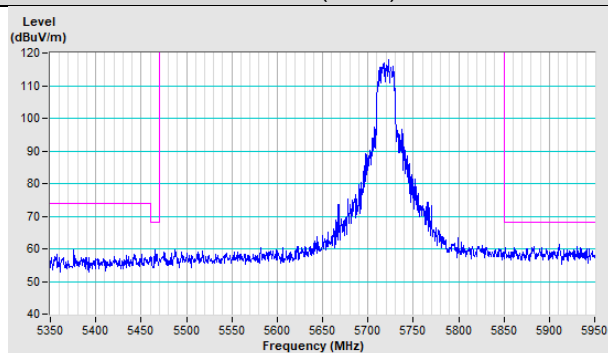


802.11ax (HE20)_Full RU Channel 144

Horizontal (Peak)

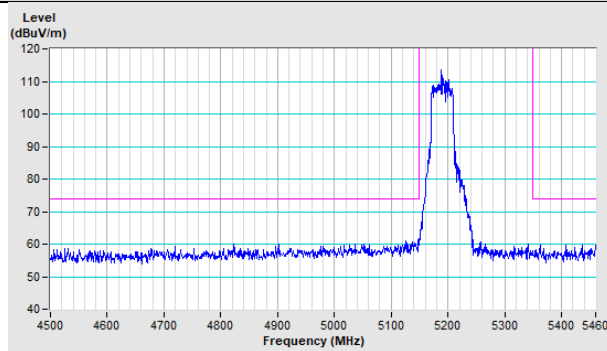


Vertical (Peak)

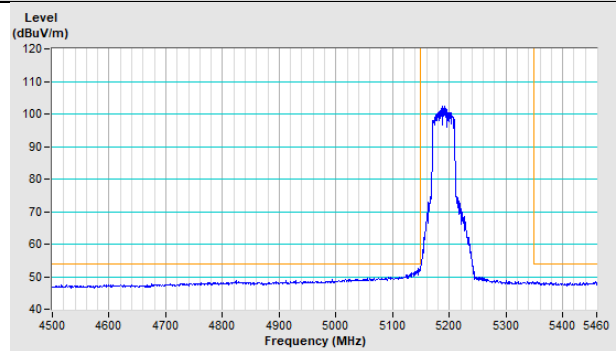


802.11ax (HE40)_Full RU Channel 38

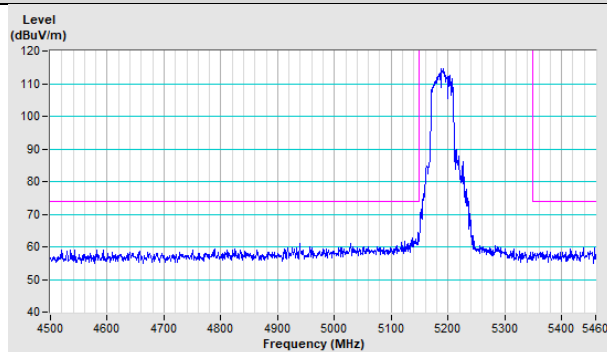
Horizontal (Peak)



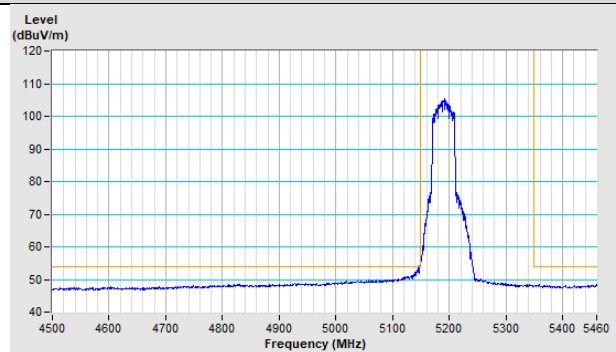
Horizontal (Average)



Vertical (Peak)

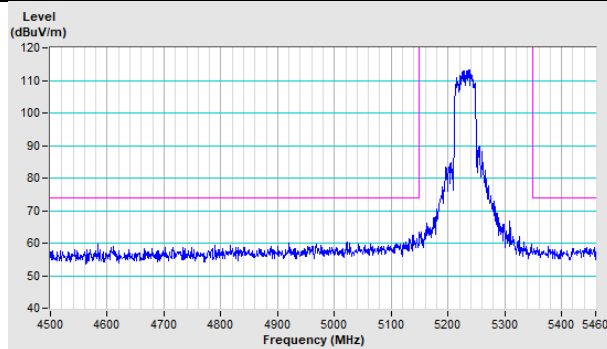


Vertical (Average)

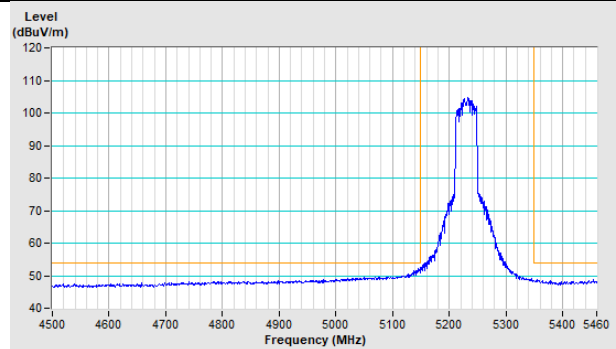


802.11ax (HE40)_Full RU Channel 46

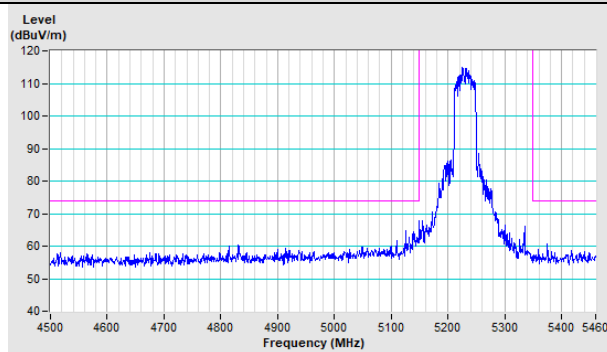
Horizontal (Peak)



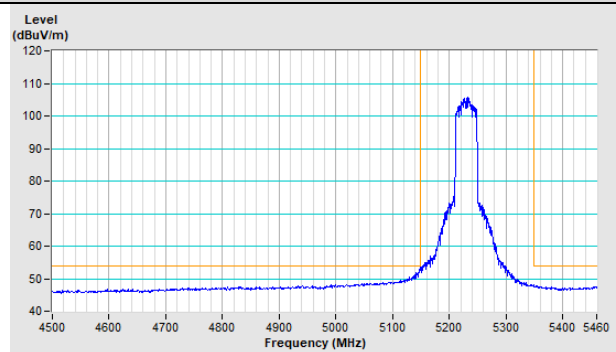
Horizontal (Average)



Vertical (Peak)

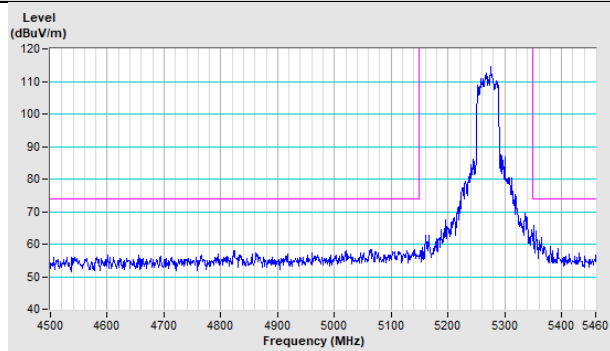


Vertical (Average)

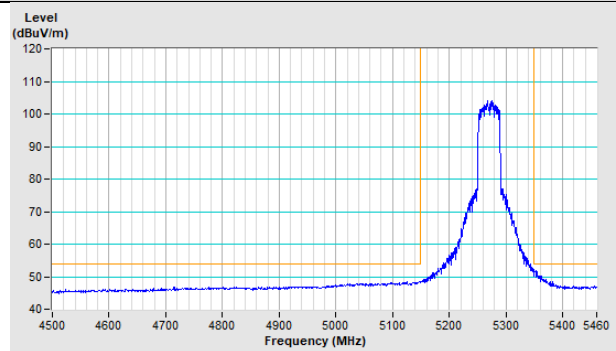


802.11ax (HE40)_Full RU Channel 54

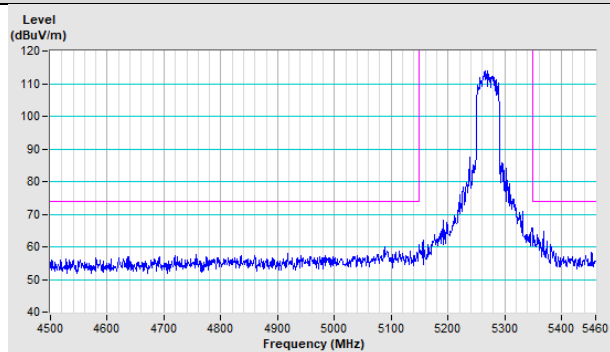
Horizontal (Peak)



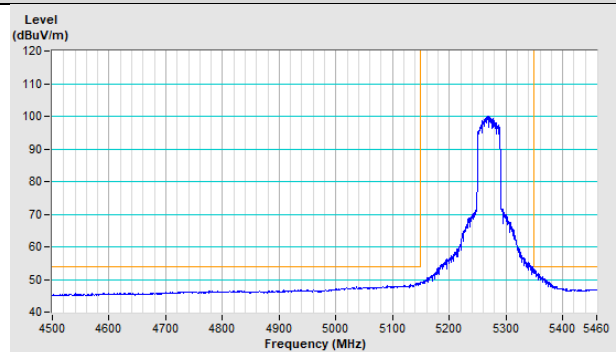
Horizontal (Average)



Vertical (Peak)

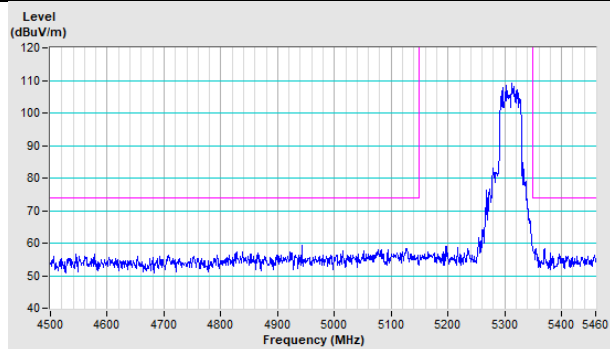


Vertical (Average)

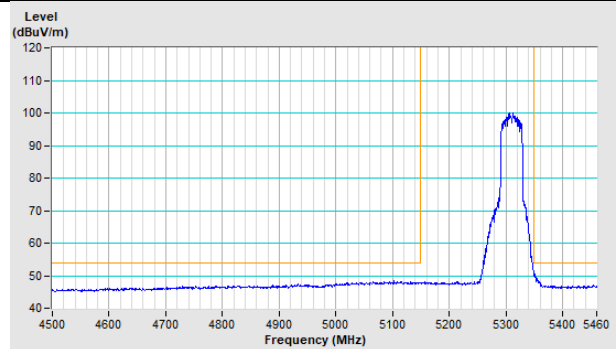


802.11ax (HE40)_Full RU Channel 62

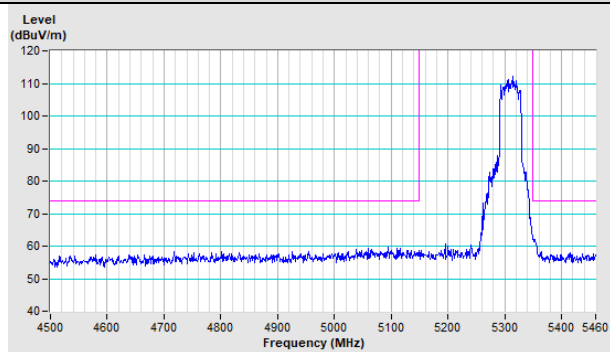
Horizontal (Peak)



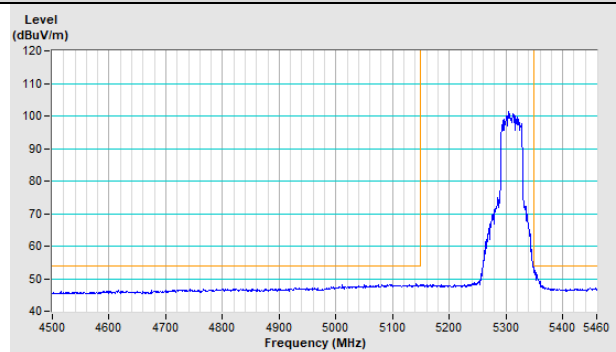
Horizontal (Average)



Vertical (Peak)

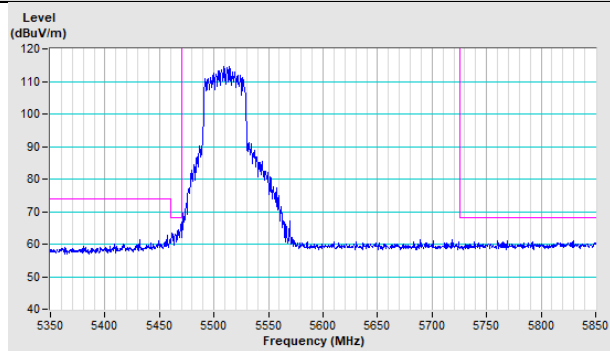


Vertical (Average)

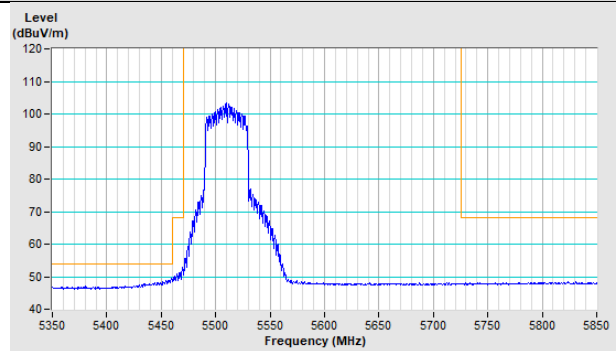


802.11ax (HE40)_Full RU Channel 102

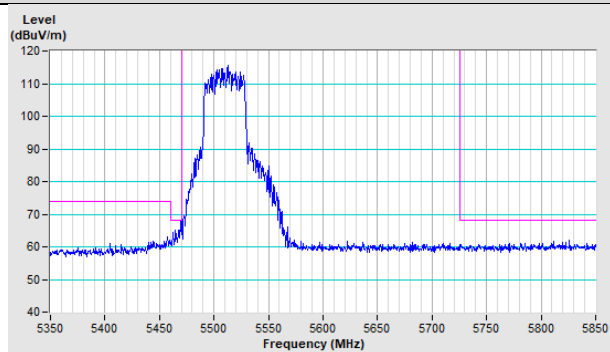
Horizontal (Peak)



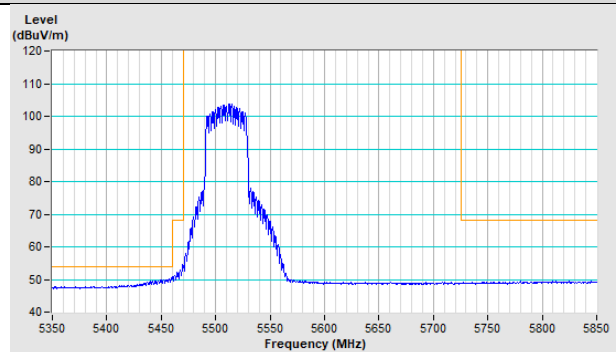
Horizontal (Average)



Vertical (Peak)

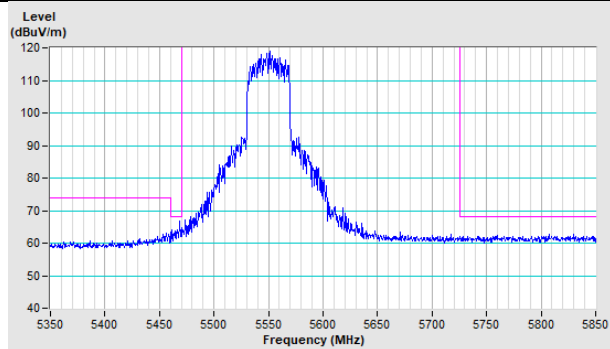


Vertical (Average)

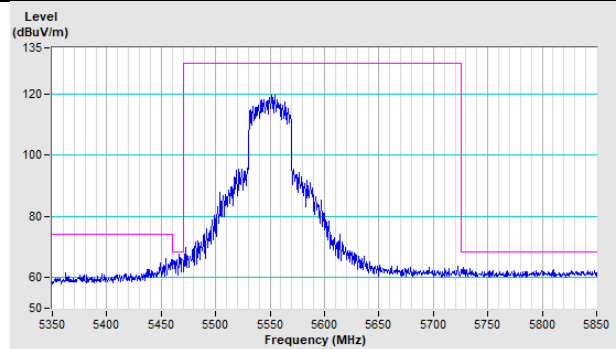


802.11ax (HE40)_Full RU Channel 110

Horizontal (Peak)

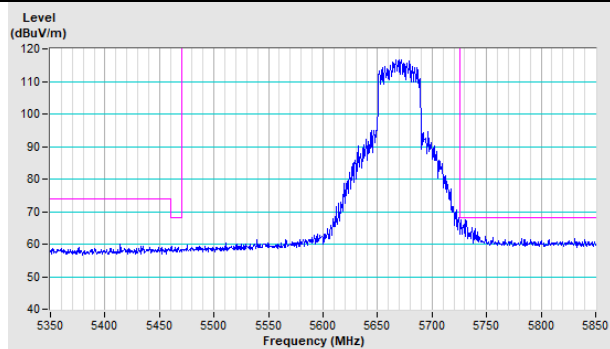


Vertical (Peak)

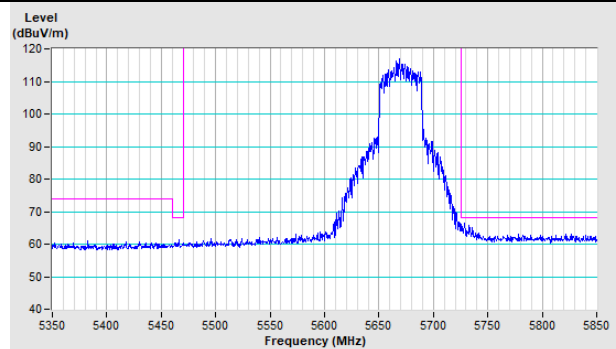


802.11ax (HE40)_Full RU Channel 134

Horizontal (Peak)

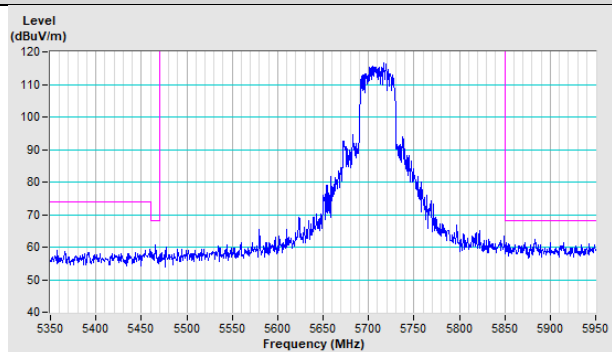


Vertical (Peak)

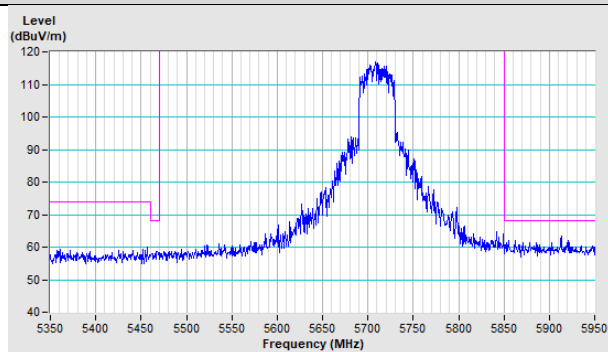


802.11ax (HE40)_Full RU Channel 142

Horizontal (Peak)

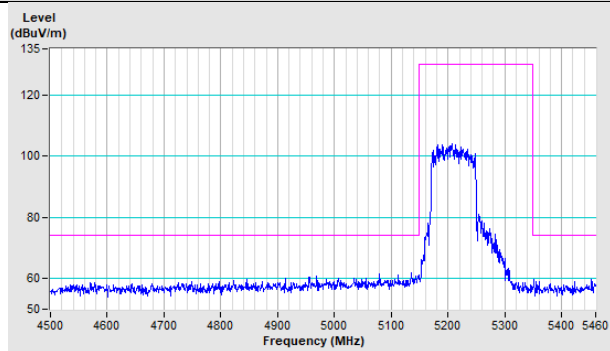


Vertical (Peak)

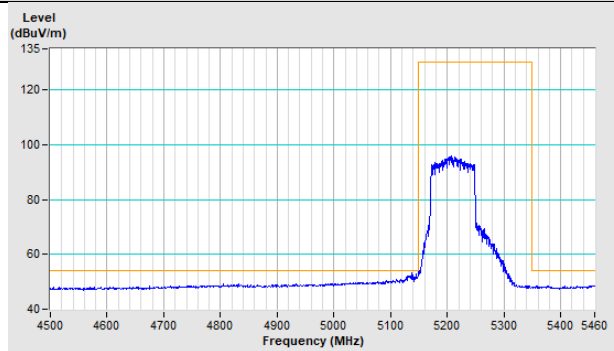


802.11ax (HE80)_Full RU Channel 42

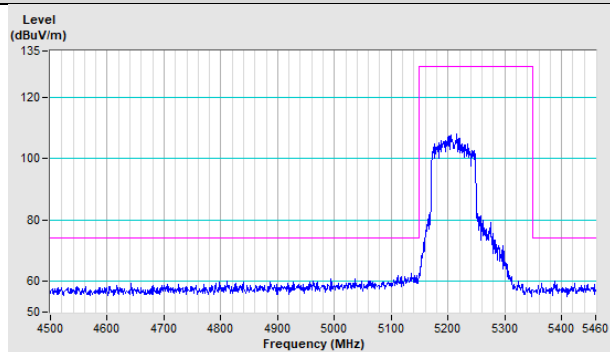
Horizontal (Peak)



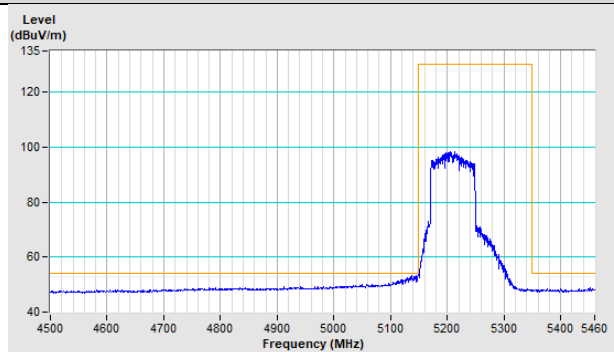
Horizontal (Average)



Vertical (Peak)

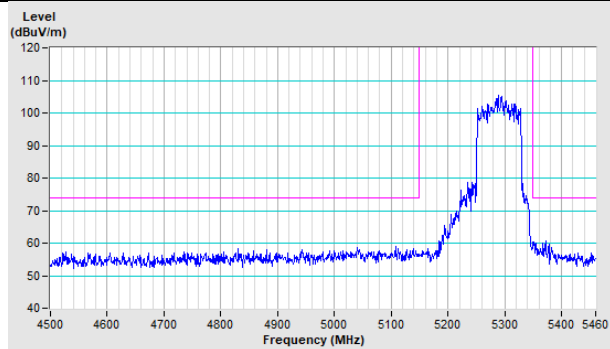


Vertical (Average)

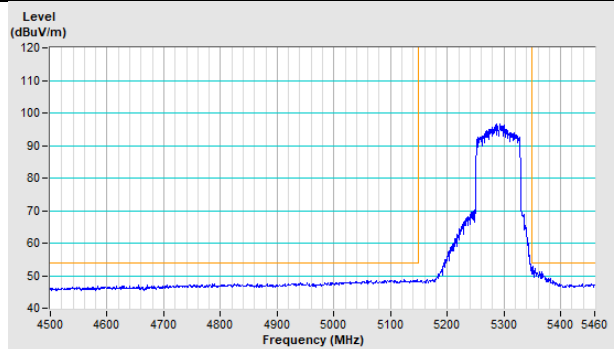


802.11ax (HE80)_Full RU Channel 58

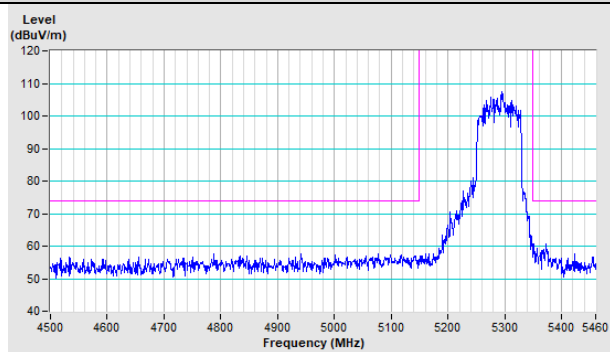
Horizontal (Peak)



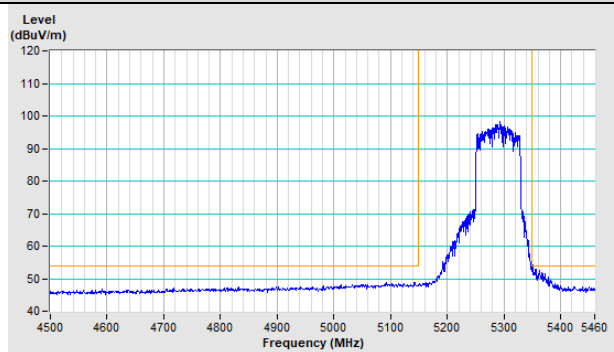
Horizontal (Average)



Vertical (Peak)

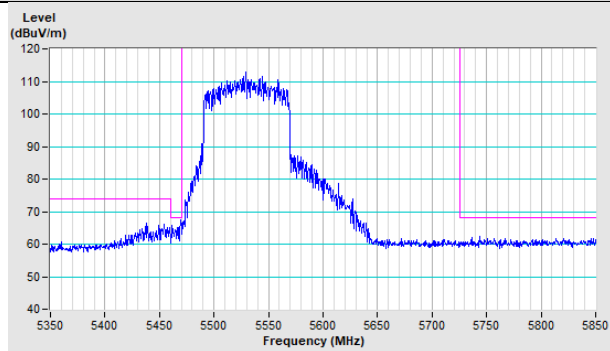


Vertical (Average)

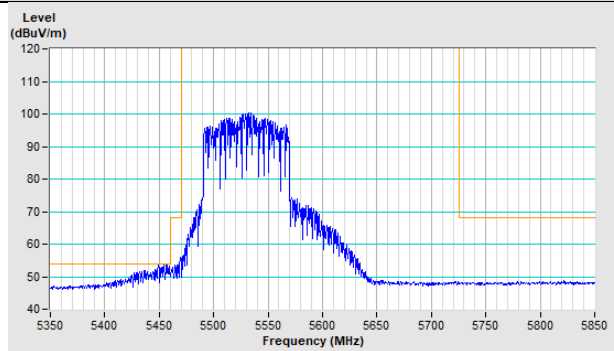


802.11ax (HE80)_Full RU Channel 106

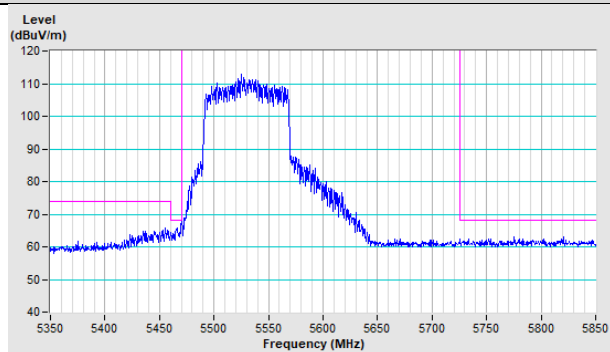
Horizontal (Peak)



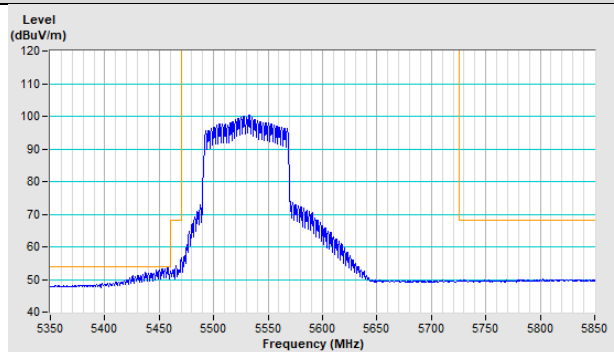
Horizontal (Average)



Vertical (Peak)

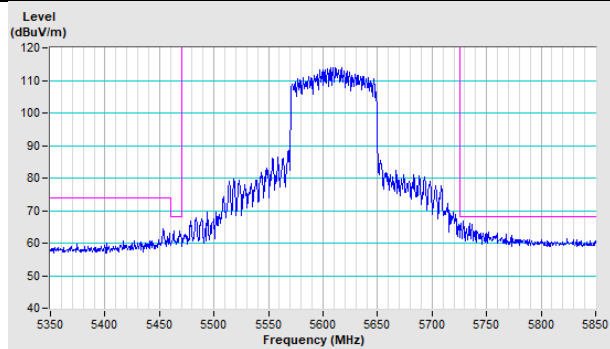


Vertical (Average)

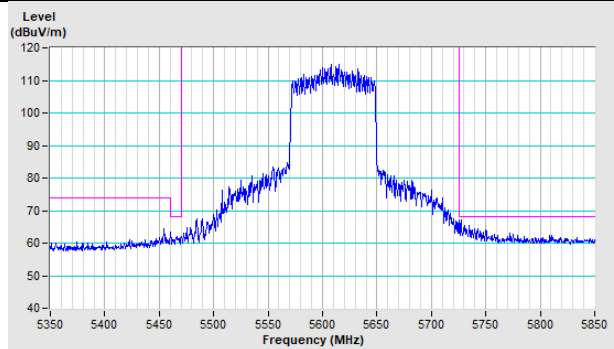


802.11ax (HE80)_Full RU Channel 122

Horizontal (Peak)

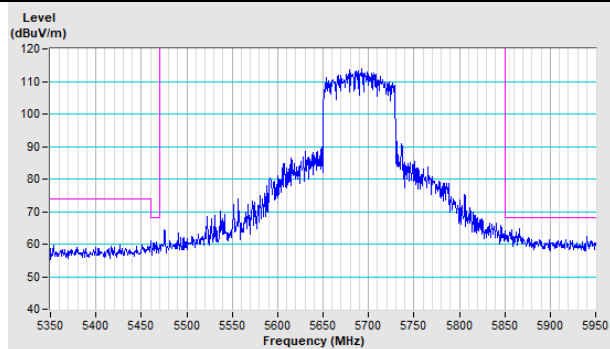


Vertical (Peak)

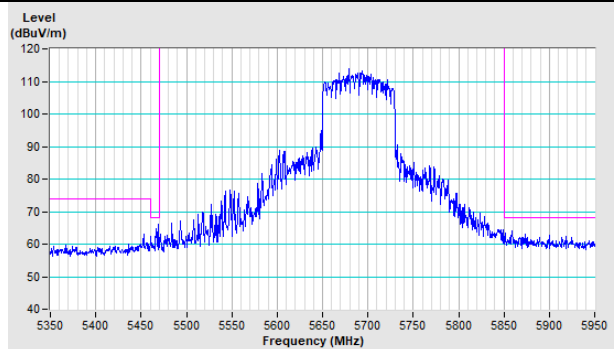


802.11ax (HE80)_Full RU Channel 138

Horizontal (Peak)

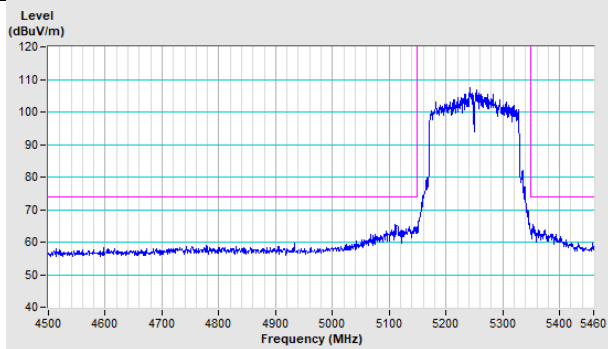


Vertical (Peak)

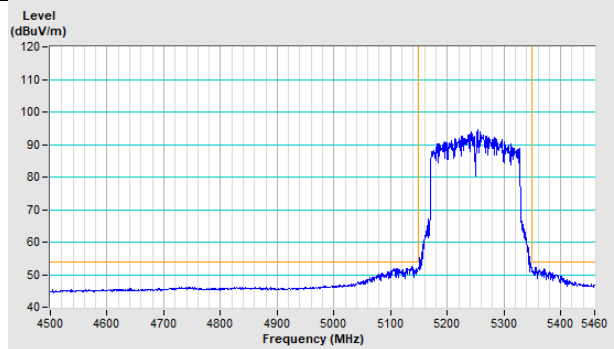


802.11ax (HE160)_Full RU Channel 50

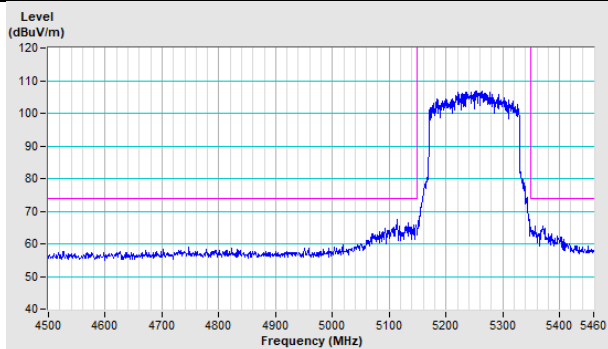
Horizontal (Peak)



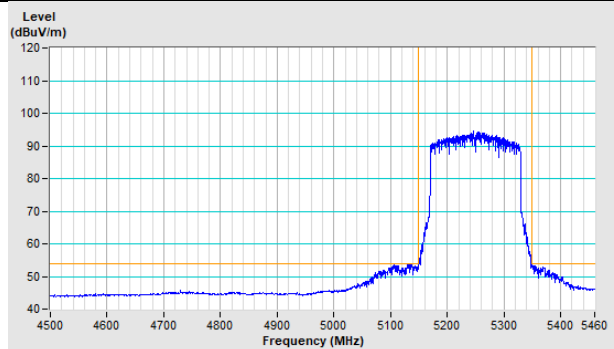
Horizontal (Average)



Vertical (Peak)

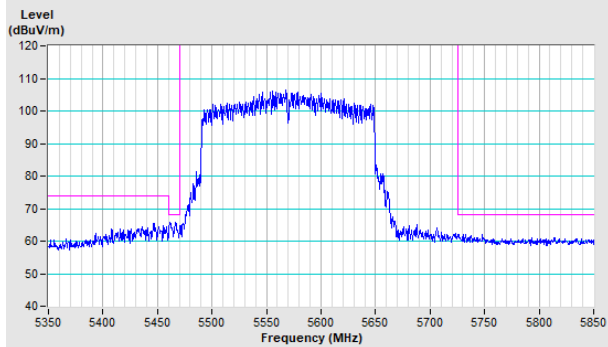


Vertical (Average)

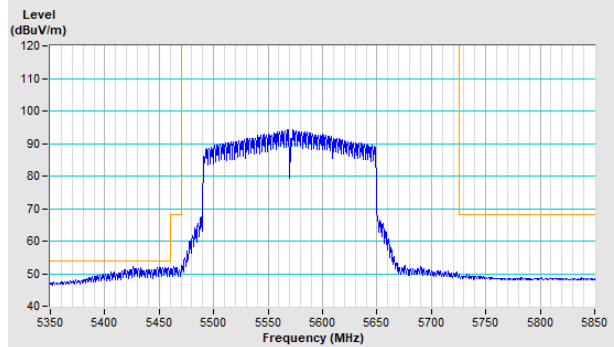


802.11ax (HE160)_Full RU Channel 114

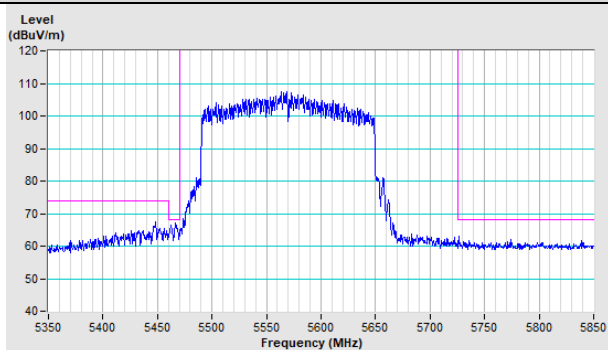
Horizontal (Peak)



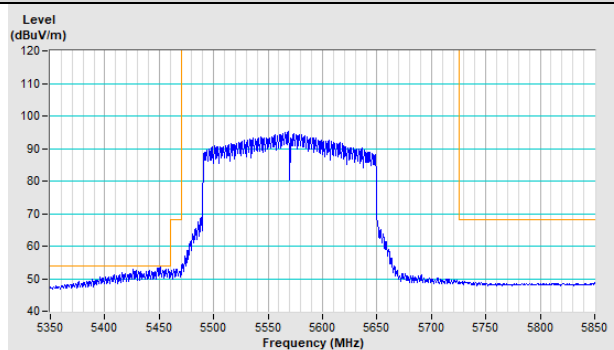
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



Appendix – Information of the Testing Laboratories

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