

## FCC Test Report (WLAN)

**Report No.:** RFBCYA-WTW-P21030934-1

**FCC ID:** YAIWB17

**Test Model:** WB17

**Received Date:** Mar. 25, 2021

**Test Date:** May 13 to June 03, 2021

**Issued Date:** July 21, 2021

**Applicant:** InnoComm Mobile Technology Corporation

**Address:** 3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 300092, Taiwan

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

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan

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



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

## Table of Contents

<b>Release Control Record .....</b>	<b>4</b>
<b>1 Certificate of Conformity .....</b>	<b>5</b>
<b>2 Summary of Test Results .....</b>	<b>6</b>
2.1 Measurement Uncertainty .....	6
2.2 Modification Record .....	6
<b>3 General Information .....</b>	<b>7</b>
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 .....	14
3.4 Description of Support Units .....	15
3.4.1 Configuration of System under Test .....	15
3.5 General Description of Applied Standard and References .....	16
<b>4 Test Types and Results .....</b>	<b>17</b>
4.1 Radiated Emission and Bandedge Measurement .....	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement .....	17
4.1.2 Test Instruments .....	18
4.1.3 Test Procedure .....	21
4.1.4 Deviation from Test Standard .....	22
4.1.5 Test Setup .....	22
4.1.6 EUT Operating Condition .....	23
4.1.7 Test Results (Mode 1) .....	24
4.1.8 Test Results (Mode 2) .....	68
4.2 Conducted Emission Measurement .....	112
4.2.1 Limits of Conducted Emission Measurement .....	112
4.2.2 Test Instruments .....	112
4.2.3 Test Procedure .....	113
4.2.4 Deviation from Test Standard .....	113
4.2.5 Test Setup .....	113
4.2.6 EUT Operating Condition .....	113
4.2.7 Test Results .....	114
4.3 Transmit Power Measurement .....	116
4.3.1 Limits of Transmit Power Measurement .....	116
4.3.2 Test Setup .....	116
4.3.3 Test Instruments .....	117
4.3.4 Test Procedure .....	117
4.3.5 Deviation from Test Standard .....	117
4.3.6 EUT Operating Condition .....	117
4.3.7 Test Results .....	118
4.4 Occupied Bandwidth Measurement .....	127
4.4.1 Test Setup .....	127
4.4.2 Test Instruments .....	127
4.4.3 Test Procedure .....	127
4.4.4 Test Results .....	128
4.5 Peak Power Spectral Density Measurement .....	134
4.5.1 Limits of Peak Power Spectral Density Measurement .....	134
4.5.2 Test Setup .....	134
4.5.3 Test Instruments .....	134
4.5.4 Test Procedure .....	134
4.5.5 Deviation from Test Standard .....	135
4.5.6 EUT Operating Condition .....	135

4.5.7	Test Results .....	136
4.6	Frequency Stability Measurement.....	141
4.6.1	Limits of Frequency Stability Measurement .....	141
4.6.2	Test Setup.....	141
4.6.3	Test Instruments .....	141
4.6.4	Test Procedure .....	141
4.6.5	Deviation from Test Standard .....	141
4.6.6	EUT Operating Condition .....	141
4.6.7	Test Results .....	142
4.7	6dB Bandwidth Measurement .....	143
4.7.1	Limits of 6dB Bandwidth Measurement.....	143
4.7.2	Test Setup.....	143
4.7.3	Test Instruments .....	143
4.7.4	Test Procedure .....	143
4.7.5	Deviation from Test Standard .....	143
4.7.6	EUT Operating Condition .....	143
4.7.7	Test Results .....	144
<b>5</b>	<b>Pictures of Test Arrangements.....</b>	<b>146</b>
	<b>Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band) .....</b>	<b>147</b>
	<b>Annex A.1 – Test Results (Mode 1) .....</b>	<b>147</b>
	<b>Annex A.2 – Test Results (Mode 2) .....</b>	<b>150</b>
	<b>Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band) .....</b>	<b>153</b>
	<b>Annex B.1 – Test Results (Mode 1) .....</b>	<b>153</b>
	<b>Annex B.2 – Test Results (Mode 2) .....</b>	<b>161</b>
	<b>Appendix – Information of the Testing Laboratories .....</b>	<b>169</b>

### Release Control Record

Issue No.	Description	Date Issued
RFBCYA-WTW-P21030934-1	Original release.	July 21, 2021

## 1 Certificate of Conformity

**Product:** Wireless Audio Module

**Brand:** InnoComm

**Test Model:** WB17

**Sample Status:** Engineering sample

**Applicant:** InnoComm Mobile Technology Corporation

**Test Date:** May 13 to June 03, 2021

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

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

**Prepared by :** Vivian Huang , **Date:** July 21, 2021  
Vivian Huang / Specialist

**Approved by :** Clark Lin , **Date:** July 21, 2021  
Clark Lin / Technical Manager

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -12.62dB at 0.57188 MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement*	Pass	Meet the requirement of limit. Minimum passing margin is -0.5 dB at 5470.00 MHz and 5150.00 MHz
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

### Note:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- 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.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Wireless Audio Module
Brand	InnoComm
Test Model	WB17
Status of EUT	Engineering sample
Power Supply Rating	5 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps
Operating Frequency	<b>2.4GHz:</b> 2.412 ~ 2.462GHz <b>5GHz:</b> 5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz
Number of Channel	<b>2.4GHz:</b> 802.11b, 802.11g, 802.11n (HT20): 11 <b>5GHz:</b> 802.11a, 802.11n (HT20), 802.11ac (VHT20): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	<b>2.412 ~ 2.472 GHz:</b> 503.631 mW <b>5.18 ~ 5.24 GHz:</b> 83.56 mW <b>5.26 ~ 5.32GHz:</b> 60.509 mW <b>5.5 ~ 5.72GHz:</b> 40.07 mW <b>5.745 ~ 5.825 GHz:</b> 62.23 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

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

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz)	Bluetooth

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

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

Antenna Set	RF Chain No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
Ant. Set 1	0	5.26	2.4~2.4835GHz	PCB	i-pex(MHF)	172
		6.27	5.15~5.85GHz			
	1	5.26	2.4~2.4835GHz	PCB	i-pex(MHF)	172
	BT	6.27	5.15~5.85GHz	PCB	i-pex(MHF)	172
		5.26	2.4~2.4835GHz	PCB	i-pex(MHF)	172
Ant. Set 2	0	5	2.4~2.4835GHz	Dipole	i-pex(MHF)	NA
		5	5.15~5.85GHz			
	1	5	2.4~2.4835GHz	Dipole	i-pex(MHF)	NA
		5	5.15~5.85GHz	Dipole	i-pex(MHF)	NA
	BT	5	2.4~2.4835GHz	PCB	i-pex(MHF)	NA
Ant. Set 3	0	-0.96	2.4~2.4835GHz	PCB	i-pex(MHF)	520
		-1.35	5.15~5.85GHz			
	1	-0.96	2.4~2.4835GHz	PCB	i-pex(MHF)	520
		-1.35	5.15~5.85GHz	PCB	i-pex(MHF)	520
	BT	-0.96	2.4~2.4835GHz	PCB	i-pex(MHF)	520
Ant. Set 4	0	4.56	2.4~2.4835GHz	PCB	i-pex(MHF)	210
		2.09	5.15~5.85GHz			
	1	4.56	2.4~2.4835GHz	PCB	i-pex(MHF)	210
		2.09	5.15~5.85GHz	PCB	i-pex(MHF)	210
	BT	4.56	2.4~2.4835GHz	PCB	i-pex(MHF)	210
Ant. Set 5	0	2.9	2.4~2.4835GHz	PCB	i-pex(MHF)	250
		2.77	5.15~5.85GHz			
	1	2.9	2.4~2.4835GHz	PCB	i-pex(MHF)	250
		2.77	5.15~5.85GHz	PCB	i-pex(MHF)	250
	BT	2.9	2.4~2.4835GHz	PCB	i-pex(MHF)	250
Ant. Set 6	0	0.94	2.4~2.4835GHz	PCB	i-pex(MHF)	300
		2.91	5.15~5.85GHz			
	1	0.94	2.4~2.4835GHz	PCB	i-pex(MHF)	300
		2.91	5.15~5.85GHz	PCB	i-pex(MHF)	300
	BT	0.94	2.4~2.4835GHz	PCB	i-pex(MHF)	300
Ant. Set 7	0	4.42	2.4~2.4835GHz	PCB	i-pex(MHF)	387
		3.76	5.15~5.85GHz			
	1	4.42	2.4~2.4835GHz	PCB	i-pex(MHF)	387
		3.76	5.15~5.85GHz	PCB	i-pex(MHF)	387
	BT	4.42	2.4~2.4835GHz	PCB	i-pex(MHF)	387
Ant. Set 8	0	2.76	2.4~2.4835GHz	PCB	i-pex(MHF)	245
		-	5.15~5.85GHz			
	1	2.76	2.4~2.4835GHz	PCB	i-pex(MHF)	24
		-	5.15~5.85GHz	PCB	i-pex(MHF)	24
	BT	2.66	2.4~2.4835GHz	PCB	i-pex(MHF)	245
Ant. Set 9	0	5.13	2.4~2.4835GHz	PCB	i-pex(MHF)	228
		-	5.15~5.85GHz			
	1	5.13	2.4~2.4835GHz	PCB	i-pex(MHF)	228
		-	5.15~5.85GHz	PCB	i-pex(MHF)	228
	BT	5.13	2.4~2.4835GHz	PCB	i-pex(MHF)	228

Note: Antenna Set. 1 & 2 was selected for final test.



4. The EUT incorporates a MIMO function:

<b>2.4GHZ BAND</b>		
<b>MODULATION MODE</b>	<b>TX &amp; RX CONFIGURATION</b>	
<b>802.11b</b>	1TX Diversity	2RX
<b>802.11g</b>	1TX Diversity	2RX
<b>802.11n (HT20)</b>	2TX	2RX
<b>5GHz Band</b>		
<b>MODULATION MODE</b>	<b>TX &amp; RX CONFIGURATION</b>	
<b>802.11a</b>	1TX Diversity	2RX
<b>802.11n (HT20)</b>	2TX	2RX
<b>802.11n (HT40)</b>	2TX	2RX
<b>802.11ac (VHT20)</b>	2TX	2RX
<b>802.11ac (VHT40)</b>	2TX	2RX
<b>802.11ac (VHT80)</b>	2TX	2RX

Note: The EUT doesn't support beamforming function.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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

### 3.2 Description of Test Modes

#### FOR 5180 ~ 5320MHz

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

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

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

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

2 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

#### FOR 5500 ~ 5720MHz

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

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):

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):

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

**FOR 5745 ~ 5825MHz:**

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
1	√	√	-	-	With Dipole antenna (Ant. Set 2)
2	√	√	√	√	With PCB antenna (Ant. Set 1)

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

**RE<1G**: Radiated Emission below 1GHz

**PLC**: Power Line Conducted Emission

**APCM**: Antenna Port Conducted Measurement

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

#### Radiated Emission Test (Above 1GHz):

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 62	38, 46, 54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		42, 58	42, 58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

#### 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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac (VHT20)	5180-5320 5500-5720 5745-5825	36 to 64 100 to 144 149 to 165	52	OFDM	BPSK	6.5

### 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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac (VHT20)	5180-5320 5500-5720 5745-5825	36 to 64 100 to 144 149 to 165	52	OFDM	BPSK	6.5

### Antenna Port Conducted Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 62	38, 46, 54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		42, 58	42, 58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

### Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Ryan Du
RE $<$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Ryan Du
PLC	25deg. C, 75%RH	120Vac, 60Hz	Ryan Du
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kevin Ko

### 3.3 Duty Cycle of Test Signal

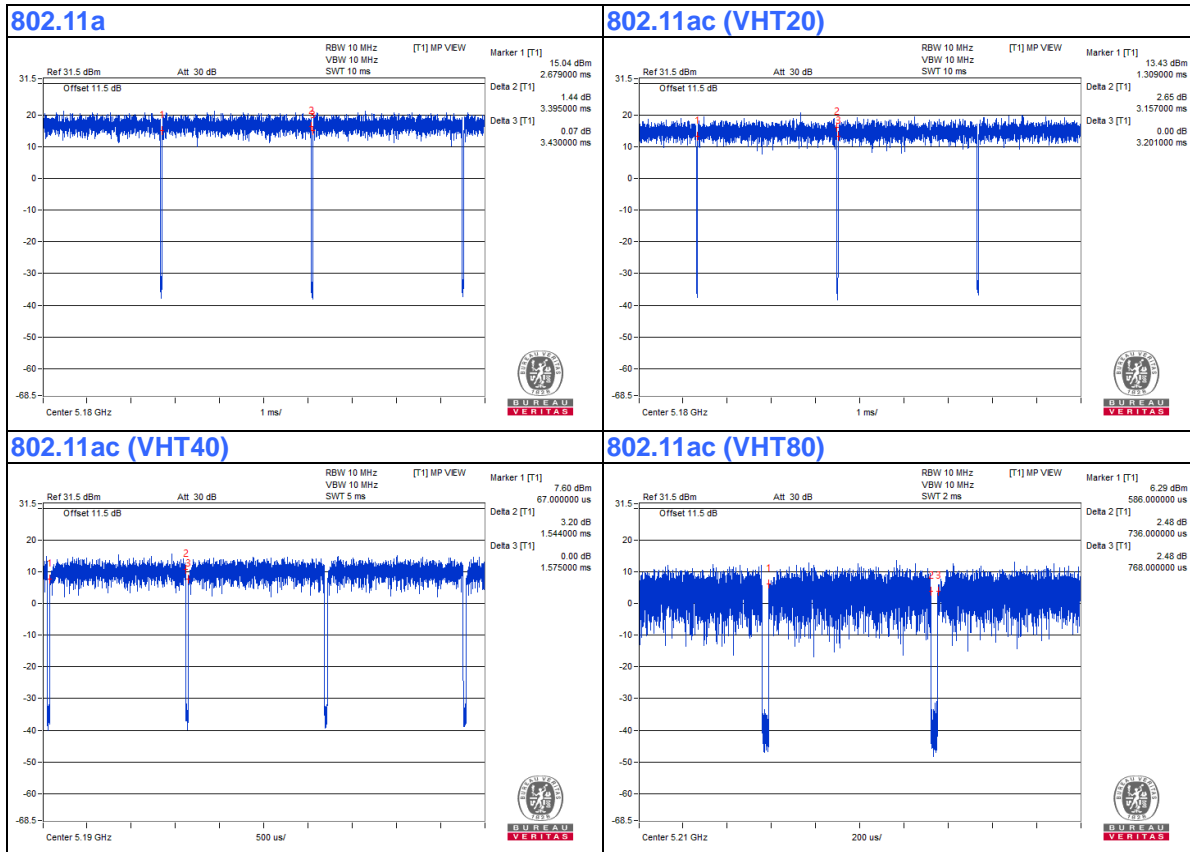
If duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.  
 If duty cycle of test signal is  $< 98\%$ , duty factor shall be considered.

**802.11a:** Duty cycle =  $3.395 \text{ ms} / 3.43 \text{ ms} = 0.99$

**802.11ac (VHT20):** Duty cycle =  $3.157 \text{ ms} / 3.201 \text{ ms} = 0.986$

**802.11ac (VHT40):** Duty cycle =  $1.544 \text{ ms} / 1.575 \text{ ms} = 0.98$

**802.11ac (VHT80):** Duty cycle =  $0.736 \text{ ms} / 0.768 \text{ ms} = 0.958$ , Duty factor =  $10 * \log(1/\text{Duty cycle}) = 0.18 \text{ dB}$



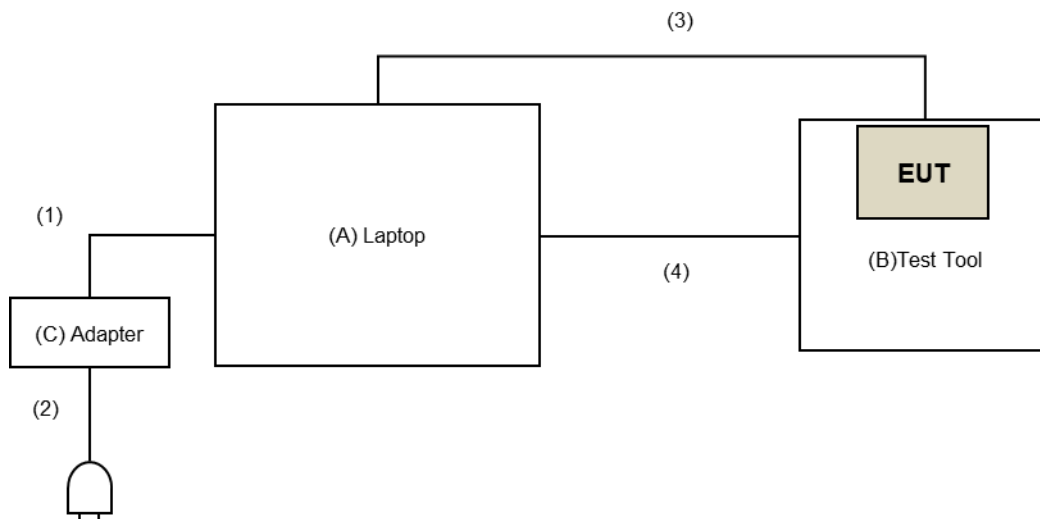
### 3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	NA	Provided by Lab
B.	Test Tool	INNOCOMM	N/A	NA	NA	Supplied by client
C.	Adapter	Lenovo	ADLX45YLC3D	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	0	Provided by Lab
2.	AC Cable	1	0.9	No	0	Provided by Lab
3.	Micro USB Cable	1	1	Yes	0	Provided by Lab
4.	Micro USB Cable	1	1.2	Yes	0	Provided by Lab

#### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standard and References

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

**Test Standard:**

**FCC Part 15, Subpart E (15.407)**

**ANSI C63.10-2013**

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

**References Test Guidance:**

**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

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



## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

#### NOTE:

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

Limits of unwanted emission out of the restricted bands

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

#### Note:

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

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

## 4.1.2 Test Instruments

**For Radiated emission (above 1GHz) & Bandedge & OBE test:**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 22, 2020	Nov. 21, 2021
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC104-SM-SM-1500	180504	Apr. 26, 2021	Apr. 25, 2022
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	210201	May 13, 2021	May 12, 2022
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 11, 2021	Jan. 10, 2022
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 22, 2020	Nov. 21, 2021
RF Cable	EMC102-KM-KM-1200	160924	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC-KM-KM-4000	200214	Mar. 10, 2021	Mar. 09, 2022
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	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 966 Chamber No. 3.
3. Tested Date: May 13 to 28, 2021

**For Radiated emission (below 1GHz) test:**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 24, 2021	May 23, 2022
Loop Antenna Electro-Metrics	EM-6879	264	Mar. 05, 2021	Mar. 04, 2022
RF Cable	5D-FB	LOOPCAB-001	Jan. 07, 2021	Jan. 06, 2022
RF Cable	5D-FB	LOOPCAB-002	Jan. 07, 2021	Jan. 06, 2022
Pre-Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	Oct. 20, 2020	Oct. 19, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 05, 2020	Nov. 04, 2021
RF Cable	8D	966-3-1	Mar. 16, 2021	Mar. 15, 2022
RF Cable	8D	966-3-2	Mar. 16, 2021	Mar. 15, 2022
RF Cable	8D	966-3-3	Mar. 16, 2021	Mar. 15, 2022
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 24, 2020	Sep. 23, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	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 966 Chamber No. 3.
3. Tested Date: May 29, 2021

**For other test items:**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	101516	Mar. 08, 2021	Mar. 07, 2022
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
10dB Attenuator Woken	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 14, 2021	Jan. 13, 2022
True RMS Clamp Meter FLUKE	325	31130711WS	June 02, 2021	June 01, 2022
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  3. Tested Date: June 03, 2021

#### 4.1.3 Test Procedure

##### **For Radiated emission below 30MHz**

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

##### **Note:**

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

##### **For Radiated emission above 30MHz**

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

##### **Note:**

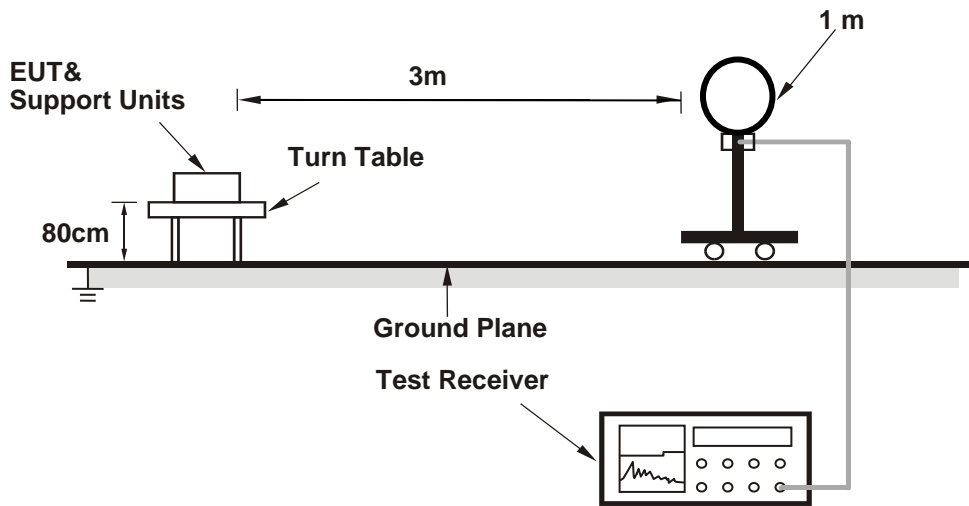
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

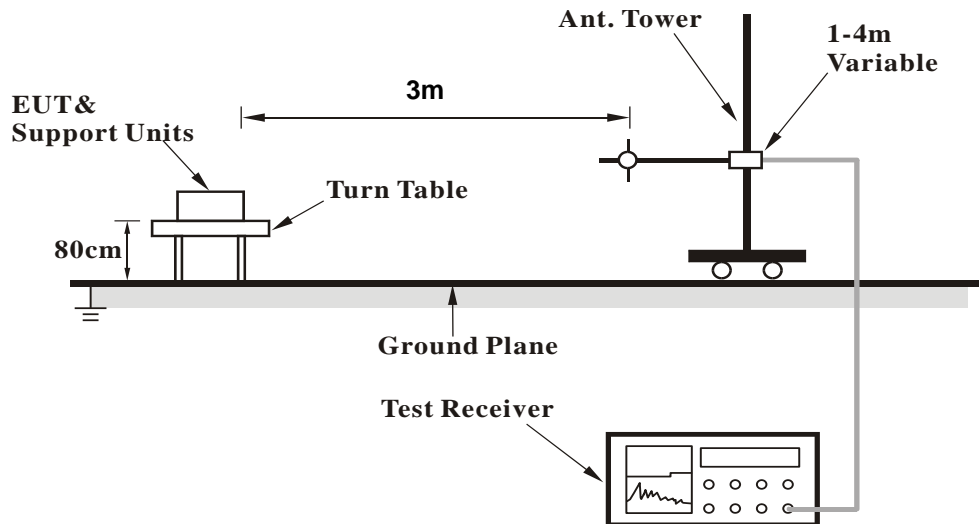
No deviation.

4.1.5 Test Setup

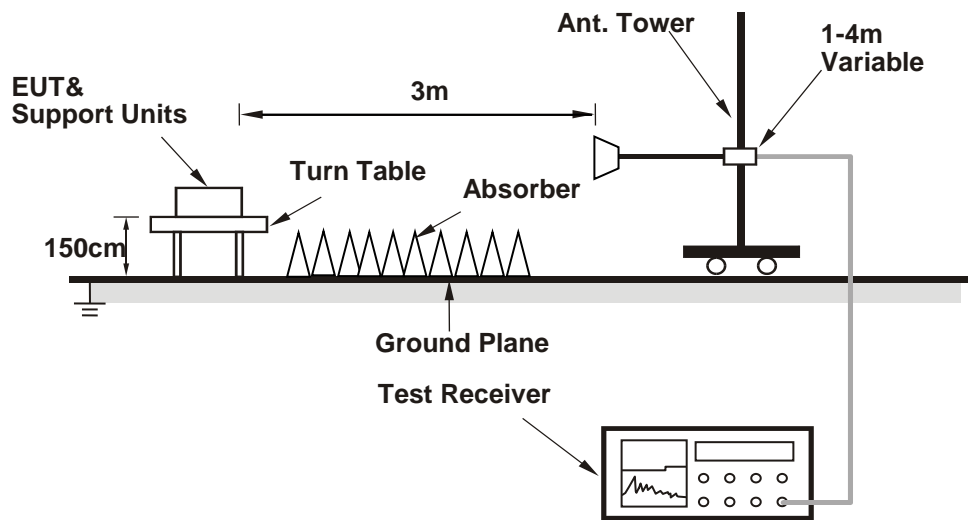
**For Radiated emission below 30MHz**



**For Radiated emission 30MHz to 1GHz**



### For Radiated emission above 1GHz



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

#### 4.1.6 EUT Operating Condition

- a. Connected the EUT with the Laptop which is placed on the testing table.
- b. Controlling software (adb paste command WIFI SOP-eng.doc) has been activated to set the EUT under transmission condition continuously.

## 4.1.7 Test Results (Mode 1)

## Above 1GHz Data:

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	1.29 H	188	54.1	4.6
2	5150.00	45.4 AV	54.0	-8.6	1.29 H	188	40.8	4.6
3	*5180.00	97.2 PK			1.29 H	188	92.7	4.5
4	*5180.00	89.2 AV			1.29 H	188	84.7	4.5
5	#10360.00	47.2 PK	68.2	-21.0	1.88 H	63	33.8	13.4
6	#10360.00	35.5 AV	54.0	-18.5	1.88 H	63	22.1	13.4
7	15540.00	47.1 PK	74.0	-26.9	1.67 H	152	32.8	14.3
8	15540.00	35.6 AV	54.0	-18.4	1.67 H	152	21.3	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	1.10 V	114	62.8	4.6
2	5150.00	53.2 AV	54.0	-0.8	1.10 V	114	48.6	4.6
3	*5180.00	107.8 PK			1.10 V	114	103.3	4.5
4	*5180.00	99.8 AV			1.10 V	114	95.3	4.5
5	#10360.00	46.8 PK	68.2	-21.4	1.67 V	172	33.4	13.4
6	#10360.00	35.1 AV	54.0	-18.9	1.67 V	172	21.7	13.4
7	15540.00	47.2 PK	74.0	-26.8	1.36 V	245	32.9	14.3
8	15540.00	35.7 AV	54.0	-18.3	1.36 V	245	21.4	14.3

## Remarks:

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



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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	97.7 PK			1.49 H	278	93.4	4.3
2	*5200.00	89.6 AV			1.49 H	278	85.3	4.3
3	#10400.00	47.8 PK	68.2	-20.4	1.91 H	62	34.3	13.5
4	15600.00	46.6 PK	74.0	-27.4	1.70 H	156	32.2	14.4
5	15600.00	35.1 AV	54.0	-18.9	1.70 H	156	20.7	14.4

**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	*5200.00	107.4 PK			1.10 V	120	103.1	4.3
2	*5200.00	99.6 AV			1.10 V	120	95.3	4.3
3	#10400.00	46.9 PK	68.2	-21.3	1.64 V	182	33.4	13.5
4	15600.00	46.7 PK	74.0	-27.3	1.31 V	247	32.3	14.4
5	15600.00	35.4 AV	54.0	-18.6	1.31 V	247	21.0	14.4

**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.

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	97.8 PK			1.13 H	192	93.4	4.4
2	*5240.00	90.2 AV			1.13 H	192	85.8	4.4
3	5350.00	50.9 PK	74.0	-23.1	1.13 H	192	46.6	4.3
4	5350.00	40.1 AV	54.0	-13.9	1.13 H	192	35.8	4.3
5	#10480.00	46.7 PK	68.2	-21.5	1.91 H	58	33.1	13.6
6	15720.00	47.2 PK	74.0	-26.8	1.64 H	164	32.9	14.3
7	15720.00	35.6 AV	54.0	-18.4	1.64 H	164	21.3	14.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.4 PK			1.36 V	146	101.0	4.4
2	*5240.00	97.8 AV			1.36 V	146	93.4	4.4
3	5350.00	50.7 PK	74.0	-23.3	1.36 V	146	46.4	4.3
4	5350.00	40.5 AV	54.0	-13.5	1.36 V	146	36.2	4.3
5	#10480.00	46.6 PK	68.2	-21.6	1.70 V	181	33.0	13.6
6	15720.00	46.6 PK	74.0	-27.4	1.32 V	260	32.3	14.3
7	15720.00	35.4 AV	54.0	-18.6	1.32 V	260	21.1	14.3

**Remarks:**

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.2 PK	74.0	-21.8	1.14 H	182	47.6	4.6
2	5150.00	41.5 AV	54.0	-12.5	1.14 H	182	36.9	4.6
3	*5260.00	96.4 PK			1.14 H	182	92.1	4.3
4	*5260.00	88.8 AV			1.14 H	182	84.5	4.3
5	#10520.00	46.9 PK	68.2	-21.3	1.83 H	48	33.2	13.7
6	15780.00	47.1 PK	74.0	-26.9	1.62 H	167	33.0	14.1
7	15780.00	35.5 AV	54.0	-18.5	1.62 H	167	21.4	14.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.4 PK	74.0	-21.6	1.28 V	115	47.8	4.6
2	5150.00	41.7 AV	54.0	-12.3	1.28 V	115	37.1	4.6
3	*5260.00	106.4 PK			1.28 V	115	102.1	4.3
4	*5260.00	98.7 AV			1.28 V	115	94.4	4.3
5	#10520.00	47.3 PK	68.2	-20.9	1.70 V	157	33.6	13.7
6	15780.00	47.0 PK	74.0	-27.0	1.38 V	253	32.9	14.1
7	15780.00	35.4 AV	54.0	-18.6	1.38 V	253	21.3	14.1

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	96.7 PK			1.43 H	269	92.4	4.3
2	*5300.00	89.1 AV			1.43 H	269	84.8	4.3
3	10600.00	47.0 PK	74.0	-27.0	1.89 H	47	33.4	13.6
4	10600.00	35.5 AV	54.0	-18.5	1.89 H	47	21.9	13.6
5	15900.00	47.1 PK	74.0	-26.9	1.64 H	143	33.1	14.0
6	15900.00	35.8 AV	54.0	-18.2	1.64 H	143	21.8	14.0

**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	*5300.00	107.8 PK			1.14 V	107	103.5	4.3
2	*5300.00	99.4 AV			1.14 V	107	95.1	4.3
3	10600.00	46.8 PK	74.0	-27.2	1.68 V	180	33.2	13.6
4	10600.00	35.0 AV	54.0	-19.0	1.68 V	180	21.4	13.6
5	15900.00	47.0 PK	74.0	-27.0	1.30 V	248	33.0	14.0
6	15900.00	35.3 AV	54.0	-18.7	1.30 V	248	21.3	14.0

**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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	98.1 PK			1.03 H	180	93.8	4.3
2	*5320.00	90.6 AV			1.03 H	180	86.3	4.3
3	5350.00	55.9 PK	74.0	-18.1	1.03 H	180	51.6	4.3
4	5350.00	44.8 AV	54.0	-9.2	1.03 H	180	40.5	4.3
5	10640.00	47.0 PK	74.0	-27.0	1.84 H	71	33.3	13.7
6	10640.00	35.3 AV	54.0	-18.7	1.84 H	71	21.6	13.7
7	15960.00	46.5 PK	74.0	-27.5	1.72 H	160	32.4	14.1
8	15960.00	35.2 AV	54.0	-18.8	1.72 H	160	21.1	14.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.5 PK			1.01 V	255	103.2	4.3
2	*5320.00	99.7 AV			1.01 V	255	95.4	4.3
3	5350.00	64.8 PK	74.0	-9.2	1.01 V	255	60.5	4.3
4	5350.00	53.2 AV	54.0	-0.8	1.01 V	255	48.9	4.3
5	10640.00	47.4 PK	74.0	-26.6	1.70 V	157	33.7	13.7
6	10640.00	35.6 AV	54.0	-18.4	1.70 V	157	21.9	13.7
7	15960.00	47.0 PK	74.0	-27.0	1.38 V	236	32.9	14.1
8	15960.00	35.7 AV	54.0	-18.3	1.38 V	236	21.6	14.1

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	59.4 PK	74.0	-14.6	1.25 H	216	55.0	4.4
2	5460.00	48.1 AV	54.0	-5.9	1.25 H	216	43.7	4.4
3	#5470.00	64.7 PK	68.2	-3.5	1.25 H	216	60.2	4.5
4	*5500.00	100.0 PK			1.25 H	216	95.4	4.6
5	*5500.00	92.0 AV			1.25 H	216	87.4	4.6
6	11000.00	47.3 PK	74.0	-26.7	1.88 H	62	33.1	14.2
7	11000.00	35.7 AV	54.0	-18.3	1.88 H	62	21.5	14.2
8	#16500.00	46.9 PK	68.2	-21.3	1.66 H	139	31.0	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.0 PK	74.0	-11.0	1.10 V	250	58.6	4.4
2	5460.00	50.1 AV	54.0	-3.9	1.10 V	250	45.7	4.4
3	#5470.00	67.2 PK	68.2	-1.0	1.10 V	250	62.7	4.5
4	*5500.00	105.3 PK			1.10 V	250	100.7	4.6
5	*5500.00	97.5 AV			1.10 V	250	92.9	4.6
6	11000.00	46.8 PK	74.0	-27.2	1.72 V	180	32.6	14.2
7	11000.00	35.4 AV	54.0	-18.6	1.72 V	180	21.2	14.2
8	#16500.00	47.8 PK	68.2	-20.4	1.41 V	248	31.9	15.9

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.3 PK			1.48 H	273	95.8	4.5
2	*5580.00	92.2 AV			1.48 H	273	87.7	4.5
3	11160.00	47.1 PK	74.0	-26.9	1.82 H	67	33.0	14.1
4	11160.00	35.7 AV	54.0	-18.3	1.82 H	67	21.6	14.1
5	#16740.00	47.2 PK	68.2	-21.0	1.64 H	138	30.5	16.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	105.2 PK			1.24 V	250	100.7	4.5
2	*5580.00	97.1 AV			1.24 V	250	92.6	4.5
3	11160.00	46.7 PK	74.0	-27.3	1.70 V	177	32.6	14.1
4	11160.00	35.2 AV	54.0	-18.8	1.70 V	177	21.1	14.1
5	#16740.00	47.3 PK	68.2	-20.9	1.30 V	238	30.6	16.7

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.4 PK			1.42 H	294	95.9	4.5
2	*5700.00	92.2 AV			1.42 H	294	87.7	4.5
3	#5725.00	63.4 PK	68.2	-4.8	1.42 H	294	58.8	4.6
4	11400.00	46.8 PK	74.0	-27.2	1.93 H	50	32.3	14.5
5	11400.00	35.0 AV	54.0	-19.0	1.93 H	50	20.5	14.5
6	#17100.00	47.6 PK	68.2	-20.6	1.68 H	146	29.9	17.7

**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	*5700.00	103.8 PK			1.28 V	160	99.3	4.5
2	*5700.00	95.5 AV			1.28 V	160	91.0	4.5
3	#5725.00	65.4 PK	68.2	-2.8	1.28 V	160	60.8	4.6
4	11400.00	46.8 PK	74.0	-27.2	1.66 V	172	32.3	14.5
5	11400.00	35.2 AV	54.0	-18.8	1.66 V	172	20.7	14.5
6	#17100.00	47.3 PK	68.2	-20.9	1.36 V	240	29.6	17.7

**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.



<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.9 PK	74.0	-22.1	1.43 H	278	47.5	4.4
2	5460.00	40.3 AV	54.0	-13.7	1.43 H	278	35.9	4.4
3	#5470.00	52.3 PK	68.2	-15.9	1.43 H	278	47.8	4.5
4	*5720.00	100.4 PK			1.43 H	278	95.8	4.6
5	*5720.00	92.2 AV			1.43 H	278	87.6	4.6
6	#5850.00	53.2 PK	68.2	-15.0	1.43 H	278	48.3	4.9
7	11440.00	46.7 PK	74.0	-27.3	1.84 H	70	32.2	14.5
8	11440.00	35.2 AV	54.0	-18.8	1.84 H	70	20.7	14.5
9	#17160.00	46.5 PK	68.2	-21.7	1.68 H	144	28.7	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.5 PK	74.0	-22.5	2.05 V	251	47.1	4.4
2	5460.00	40.2 AV	54.0	-13.8	2.05 V	251	35.8	4.4
3	#5470.00	52.0 PK	68.2	-16.2	2.05 V	251	47.5	4.5
4	*5720.00	107.6 PK			2.05 V	251	103.0	4.6
5	*5720.00	99.6 AV			2.05 V	251	95.0	4.6
6	#5850.00	52.6 PK	68.2	-15.6	2.05 V	251	47.7	4.9
7	11440.00	47.1 PK	74.0	-26.9	1.68 V	161	32.6	14.5
8	11440.00	35.5 AV	54.0	-18.5	1.68 V	161	21.0	14.5
9	#17160.00	46.8 PK	68.2	-21.4	1.37 V	252	29.0	17.8

**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.

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5627.48	51.8 PK	68.2	-16.4	1.48 H	278	47.3	4.5
2	*5745.00	96.9 PK			1.48 H	278	92.0	4.9
3	*5745.00	89.4 AV			1.48 H	278	84.5	4.9
4	#6006.71	52.4 PK	68.2	-15.8	1.48 H	278	47.2	5.2
5	11490.00	47.2 PK	74.0	-26.8	1.86 H	73	32.7	14.5
6	11490.00	35.4 AV	54.0	-18.6	1.86 H	73	20.9	14.5
7	#17235.00	47.3 PK	68.2	-20.9	1.64 H	145	29.4	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.73	51.7 PK	68.2	-16.5	1.11 V	262	47.2	4.5
2	*5745.00	105.8 PK			1.11 V	262	100.9	4.9
3	*5745.00	97.7 AV			1.11 V	262	92.8	4.9
4	#5982.87	51.1 PK	68.2	-17.1	1.11 V	262	45.9	5.2
5	11490.00	46.9 PK	74.0	-27.1	1.70 V	177	32.4	14.5
6	11490.00	35.1 AV	54.0	-18.9	1.70 V	177	20.6	14.5
7	#17235.00	46.8 PK	68.2	-21.4	1.41 V	241	28.9	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5583.87	51.5 PK	68.2	-16.7	1.48 H	276	47.0	4.5
2	*5785.00	101.0 PK			1.48 H	276	96.0	5.0
3	*5785.00	92.8 AV			1.48 H	276	87.8	5.0
4	#5983.48	52.1 PK	68.2	-16.1	1.48 H	276	46.9	5.2
5	11570.00	47.6 PK	74.0	-26.4	1.90 H	74	33.1	14.5
6	11570.00	35.6 AV	54.0	-18.4	1.90 H	74	21.1	14.5
7	#17355.00	47.7 PK	68.2	-20.5	1.72 H	152	29.5	18.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.74	52.2 PK	68.2	-16.0	1.09 V	263	47.7	4.5
2	*5785.00	106.3 PK			1.09 V	263	101.3	5.0
3	*5785.00	98.1 AV			1.09 V	263	93.1	5.0
4	#6014.50	51.6 PK	68.2	-16.6	1.09 V	263	46.4	5.2
5	11570.00	46.9 PK	74.0	-27.1	1.63 V	185	32.4	14.5
6	11570.00	35.1 AV	54.0	-18.9	1.63 V	185	20.6	14.5
7	#17355.00	46.8 PK	68.2	-21.4	1.37 V	252	28.6	18.2

**Remarks:**

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

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.01	51.5 PK	68.2	-16.7	1.44 H	283	47.0	4.5
2	*5825.00	101.1 PK			1.44 H	283	96.2	4.9
3	*5825.00	92.8 AV			1.44 H	283	87.9	4.9
4	#6022.15	52.2 PK	68.2	-16.0	1.44 H	283	47.0	5.2
5	11650.00	46.8 PK	74.0	-27.2	1.85 H	60	32.5	14.3
6	11650.00	35.3 AV	54.0	-18.7	1.85 H	60	21.0	14.3
7	#17475.00	47.4 PK	68.2	-20.8	1.63 H	140	28.6	18.8

**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	#5585.67	52.4 PK	68.2	-15.8	1.06 V	268	47.9	4.5
2	*5825.00	106.4 PK			1.06 V	268	101.5	4.9
3	*5825.00	98.1 AV			1.06 V	268	93.2	4.9
4	#5936.70	52.6 PK	68.2	-15.6	1.06 V	268	47.6	5.0
5	11650.00	46.7 PK	74.0	-27.3	1.70 V	184	32.4	14.3
6	11650.00	34.8 AV	54.0	-19.2	1.70 V	184	20.5	14.3
7	#17475.00	46.7 PK	68.2	-21.5	1.36 V	244	27.9	18.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	58.2 PK	74.0	-15.8	1.22 H	237	53.6	4.6
2	5150.00	45.3 AV	54.0	-8.7	1.22 H	237	40.7	4.6
3	*5180.00	99.5 PK			1.22 H	237	95.0	4.5
4	*5180.00	90.8 AV			1.22 H	237	86.3	4.5
5	#10360.00	47.4 PK	68.2	-20.8	1.89 H	54	34.0	13.4
6	15540.00	47.2 PK	74.0	-26.8	1.61 H	157	32.9	14.3
7	15540.00	35.6 AV	54.0	-18.4	1.61 H	157	21.3	14.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.2 PK	74.0	-7.8	1.47 V	143	61.6	4.6
2	5150.00	52.7 AV	54.0	-1.3	1.47 V	143	48.1	4.6
3	*5180.00	107.8 PK			1.47 V	143	103.3	4.5
4	*5180.00	99.4 AV			1.47 V	143	94.9	4.5
5	#10360.00	46.8 PK	68.2	-21.4	1.63 V	166	33.4	13.4
6	15540.00	47.6 PK	74.0	-26.4	1.31 V	234	33.3	14.3
7	15540.00	36.0 AV	54.0	-18.0	1.31 V	234	21.7	14.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	100.8 PK			1.22 H	228	96.5	4.3
2	*5200.00	91.9 AV			1.22 H	228	87.6	4.3
3	#10400.00	47.2 PK	68.2	-21.0	1.93 H	75	33.7	13.5
4	15600.00	47.1 PK	74.0	-26.9	1.64 H	149	32.7	14.4
5	15600.00	35.5 AV	54.0	-18.5	1.64 H	149	21.1	14.4

**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	*5200.00	108.0 PK			1.52 V	136	103.7	4.3
2	*5200.00	100.7 AV			1.52 V	136	96.4	4.3
3	#10400.00	46.4 PK	68.2	-21.8	1.61 V	182	32.9	13.5
4	15600.00	47.3 PK	74.0	-26.7	1.40 V	258	32.9	14.4
5	15600.00	35.8 AV	54.0	-18.2	1.40 V	258	21.4	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	100.4 PK			1.28 H	246	96.0	4.4
2	*5240.00	91.9 AV			1.28 H	246	87.5	4.4
3	5350.00	51.6 PK	74.0	-22.4	1.28 H	246	47.3	4.3
4	5350.00	41.1 AV	54.0	-12.9	1.28 H	246	36.8	4.3
5	#10480.00	46.7 PK	68.2	-21.5	1.89 H	65	33.1	13.6
6	15720.00	47.4 PK	74.0	-26.6	1.67 H	138	33.1	14.3
7	15720.00	35.9 AV	54.0	-18.1	1.67 H	138	21.6	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	108.3 PK			1.37 V	146	103.9	4.4
2	*5240.00	101.0 AV			1.37 V	146	96.6	4.4
3	5350.00	51.8 PK	74.0	-22.2	1.37 V	146	47.5	4.3
4	5350.00	41.4 AV	54.0	-12.6	1.37 V	146	37.1	4.3
5	#10480.00	47.0 PK	68.2	-21.2	1.67 V	179	33.4	13.6
6	15720.00	47.6 PK	74.0	-26.4	1.41 V	231	33.3	14.3
7	15720.00	36.0 AV	54.0	-18.0	1.41 V	231	21.7	14.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.6 PK	74.0	-21.4	1.20 H	232	48.0	4.6
2	5150.00	42.0 AV	54.0	-12.0	1.20 H	232	37.4	4.6
3	*5260.00	101.0 PK			1.20 H	232	96.7	4.3
4	*5260.00	92.4 AV			1.20 H	232	88.1	4.3
5	#10520.00	46.9 PK	68.2	-21.3	1.93 H	73	33.2	13.7
6	15780.00	47.4 PK	74.0	-26.6	1.67 H	136	33.3	14.1
7	15780.00	35.8 AV	54.0	-18.2	1.67 H	136	21.7	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.9 PK	74.0	-21.1	1.14 V	106	48.3	4.6
2	5150.00	42.3 AV	54.0	-11.7	1.14 V	106	37.7	4.6
3	*5260.00	108.4 PK			1.14 V	106	104.1	4.3
4	*5260.00	101.3 AV			1.14 V	106	97.0	4.3
5	#10520.00	46.9 PK	68.2	-21.3	1.64 V	173	33.2	13.7
6	15780.00	47.5 PK	74.0	-26.5	1.33 V	241	33.4	14.1
7	15780.00	35.8 AV	54.0	-18.2	1.33 V	241	21.7	14.1

**Remarks:**

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



<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.7 PK			1.16 H	235	96.4	4.3
2	*5300.00	91.8 AV			1.16 H	235	87.5	4.3
3	10600.00	47.2 PK	74.0	-26.8	1.87 H	48	33.6	13.6
4	10600.00	35.7 AV	54.0	-18.3	1.87 H	48	22.1	13.6
5	15900.00	47.7 PK	74.0	-26.3	1.70 H	139	33.7	14.0
6	15900.00	36.1 AV	54.0	-17.9	1.70 H	139	22.1	14.0

**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	*5300.00	109.1 PK			1.12 V	107	104.8	4.3
2	*5300.00	101.2 AV			1.12 V	107	96.9	4.3
3	10600.00	46.9 PK	74.0	-27.1	1.73 V	168	33.3	13.6
4	10600.00	35.2 AV	54.0	-18.8	1.73 V	168	21.6	13.6
5	15900.00	47.3 PK	74.0	-26.7	1.30 V	254	33.3	14.0
6	15900.00	35.8 AV	54.0	-18.2	1.30 V	254	21.8	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.8 PK			1.13 H	242	96.5	4.3
2	*5320.00	92.1 AV			1.13 H	242	87.8	4.3
3	5350.00	59.9 PK	74.0	-14.1	1.13 H	242	55.6	4.3
4	5350.00	44.8 AV	54.0	-9.2	1.13 H	242	40.5	4.3
5	10640.00	46.8 PK	74.0	-27.2	1.94 H	69	33.1	13.7
6	10640.00	35.2 AV	54.0	-18.8	1.94 H	69	21.5	13.7
7	15960.00	47.7 PK	74.0	-26.3	1.61 H	158	33.6	14.1
8	15960.00	36.0 AV	54.0	-18.0	1.61 H	158	21.9	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	108.3 PK			1.07 V	110	104.0	4.3
2	*5320.00	101.6 AV			1.07 V	110	97.3	4.3
3	5350.00	65.8 PK	74.0	-8.2	1.07 V	110	61.5	4.3
4	5350.00	53.2 AV	54.0	-0.8	1.07 V	110	48.9	4.3
5	10640.00	47.1 PK	74.0	-26.9	1.63 V	173	33.4	13.7
6	10640.00	35.5 AV	54.0	-18.5	1.63 V	173	21.8	13.7
7	15960.00	47.0 PK	74.0	-27.0	1.39 V	260	32.9	14.1
8	15960.00	35.4 AV	54.0	-18.6	1.39 V	260	21.3	14.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.4 PK	74.0	-19.6	1.13 H	281	50.0	4.4
2	5460.00	42.0 AV	54.0	-12.0	1.13 H	281	37.6	4.4
3	#5470.00	57.5 PK	68.2	-10.7	1.13 H	281	53.0	4.5
4	*5500.00	98.7 PK			1.13 H	281	94.1	4.6
5	*5500.00	89.4 AV			1.13 H	281	84.8	4.6
6	11000.00	47.5 PK	74.0	-26.5	1.83 H	49	33.3	14.2
7	11000.00	35.7 AV	54.0	-18.3	1.83 H	49	21.5	14.2
8	#16500.00	47.2 PK	68.2	-21.0	1.69 H	167	31.3	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.16 V	147	57.3	4.4
2	5460.00	48.7 AV	54.0	-5.3	1.16 V	147	44.3	4.4
3	#5470.00	66.3 PK	68.2	-1.9	1.16 V	147	61.8	4.5
4	*5500.00	105.2 PK			1.16 V	147	100.6	4.6
5	*5500.00	97.7 AV			1.16 V	147	93.1	4.6
6	11000.00	46.6 PK	74.0	-27.4	1.65 V	165	32.4	14.2
7	11000.00	35.0 AV	54.0	-19.0	1.65 V	165	20.8	14.2
8	#16500.00	46.8 PK	68.2	-21.4	1.40 V	260	30.9	15.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.8 PK			1.46 H	261	96.3	4.5
2	*5580.00	92.0 AV			1.46 H	261	87.5	4.5
3	11160.00	47.2 PK	74.0	-26.8	1.88 H	57	33.1	14.1
4	11160.00	35.7 AV	54.0	-18.3	1.88 H	57	21.6	14.1
5	#16740.00	47.3 PK	68.2	-20.9	1.69 H	149	30.6	16.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.1 PK			1.48 V	127	103.6	4.5
2	*5580.00	100.6 AV			1.48 V	127	96.1	4.5
3	11160.00	47.1 PK	74.0	-26.9	1.62 V	183	33.0	14.1
4	11160.00	35.5 AV	54.0	-18.5	1.62 V	183	21.4	14.1
5	#16740.00	47.1 PK	68.2	-21.1	1.41 V	261	30.4	16.7

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	100.8 PK			1.43 H	237	96.3	4.5
2	*5700.00	92.0 AV			1.43 H	237	87.5	4.5
3	#5725.00	62.4 PK	68.2	-5.8	1.43 H	237	57.8	4.6
4	11400.00	47.2 PK	74.0	-26.8	1.90 H	47	32.7	14.5
5	11400.00	35.8 AV	54.0	-18.2	1.90 H	47	21.3	14.5
6	#17100.00	47.1 PK	68.2	-21.1	1.68 H	164	29.4	17.7

**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	*5700.00	105.0 PK			1.52 V	132	100.5	4.5
2	*5700.00	98.0 AV			1.52 V	132	93.5	4.5
3	#5725.00	65.8 PK	68.2	-2.4	1.52 V	132	61.2	4.6
4	11400.00	47.2 PK	74.0	-26.8	1.67 V	175	32.7	14.5
5	11400.00	35.4 AV	54.0	-18.6	1.67 V	175	20.9	14.5
6	#17100.00	46.9 PK	68.2	-21.3	1.35 V	230	29.2	17.7

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.1 PK	74.0	-22.9	1.50 H	265	46.7	4.4
2	5460.00	40.2 AV	54.0	-13.8	1.50 H	265	35.8	4.4
3	#5470.00	51.3 PK	68.2	-16.9	1.50 H	265	46.8	4.5
4	*5720.00	100.9 PK			1.50 H	265	96.3	4.6
5	*5720.00	92.4 AV			1.50 H	265	87.8	4.6
6	#5850.00	51.2 PK	68.2	-17.0	1.50 H	265	46.3	4.9
7	11440.00	46.8 PK	74.0	-27.2	1.87 H	58	32.3	14.5
8	11440.00	35.2 AV	54.0	-18.8	1.87 H	58	20.7	14.5
9	#17160.00	46.7 PK	68.2	-21.5	1.63 H	142	28.9	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.1 PK	74.0	-22.9	1.46 V	132	46.7	4.4
2	5460.00	40.1 AV	54.0	-13.9	1.46 V	132	35.7	4.4
3	#5470.00	51.4 PK	68.2	-16.8	1.46 V	132	46.9	4.5
4	*5720.00	108.2 PK			1.46 V	132	103.6	4.6
5	*5720.00	100.9 AV			1.46 V	132	96.3	4.6
6	#5850.00	51.6 PK	68.2	-16.6	1.46 V	132	46.7	4.9
7	11440.00	46.1 PK	74.0	-27.9	1.65 V	156	31.6	14.5
8	11440.00	34.7 AV	54.0	-19.3	1.65 V	156	20.2	14.5
9	#17160.00	47.3 PK	68.2	-20.9	1.34 V	237	29.5	17.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5610.52	52.8 PK	68.2	-15.4	1.47 H	252	48.3	4.5
2	*5745.00	102.7 PK			1.47 H	252	97.8	4.9
3	*5745.00	94.8 AV			1.47 H	252	89.9	4.9
4	#5989.61	52.5 PK	68.2	-15.7	1.47 H	252	47.3	5.2
5	11490.00	47.3 PK	74.0	-26.7	1.85 H	76	32.8	14.5
6	11490.00	35.3 AV	54.0	-18.7	1.85 H	76	20.8	14.5
7	#17235.00	46.7 PK	68.2	-21.5	1.72 H	147	28.8	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.73	53.2 PK	68.2	-15.0	1.33 V	40	48.7	4.5
2	*5745.00	109.9 PK			1.33 V	40	105.0	4.9
3	*5745.00	102.3 AV			1.33 V	40	97.4	4.9
4	#5970.32	51.7 PK	68.2	-16.5	1.33 V	40	46.5	5.2
5	11490.00	47.2 PK	74.0	-26.8	1.67 V	183	32.7	14.5
6	11490.00	35.5 AV	54.0	-18.5	1.67 V	183	21.0	14.5
7	#17235.00	47.0 PK	68.2	-21.2	1.32 V	238	29.1	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.14	51.9 PK	68.2	-16.3	1.50 H	246	47.4	4.5
2	*5785.00	102.4 PK			1.50 H	246	97.4	5.0
3	*5785.00	94.7 AV			1.50 H	246	89.7	5.0
4	#5926.05	51.8 PK	68.2	-16.4	1.50 H	246	46.8	5.0
5	11570.00	46.7 PK	74.0	-27.3	1.85 H	66	32.2	14.5
6	11570.00	35.2 AV	54.0	-18.8	1.85 H	66	20.7	14.5
7	#17355.00	46.7 PK	68.2	-21.5	1.69 H	156	28.5	18.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5619.59	53.6 PK	68.2	-14.6	1.36 V	34	49.1	4.5
2	*5785.00	111.1 PK			1.36 V	34	106.1	5.0
3	*5785.00	103.2 AV			1.36 V	34	98.2	5.0
4	#5929.09	52.2 PK	68.2	-16.0	1.36 V	34	47.2	5.0
5	11570.00	46.7 PK	74.0	-27.3	1.62 V	181	32.2	14.5
6	11570.00	35.2 AV	54.0	-18.8	1.62 V	181	20.7	14.5
7	#17355.00	47.1 PK	68.2	-21.1	1.40 V	234	28.9	18.2

**Remarks:**

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



<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5556.46	51.9 PK	68.2	-16.3	1.48 H	245	47.4	4.5
2	*5825.00	103.1 PK			1.48 H	245	98.2	4.9
3	*5825.00	95.2 AV			1.48 H	245	90.3	4.9
4	#5988.18	51.9 PK	68.2	-16.3	1.48 H	245	46.7	5.2
5	11650.00	46.5 PK	74.0	-27.5	1.89 H	66	32.2	14.3
6	11650.00	35.0 AV	54.0	-19.0	1.89 H	66	20.7	14.3
7	#17475.00	46.8 PK	68.2	-21.4	1.66 H	146	28.0	18.8

**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	#5596.36	52.3 PK	68.2	-15.9	1.30 V	33	47.8	4.5
2	*5825.00	109.2 PK			1.30 V	33	104.3	4.9
3	*5825.00	101.8 AV			1.30 V	33	96.9	4.9
4	#5957.78	51.6 PK	68.2	-16.6	1.30 V	33	46.4	5.2
5	11650.00	46.2 PK	74.0	-27.8	1.65 V	162	31.9	14.3
6	11650.00	34.7 AV	54.0	-19.3	1.65 V	162	20.4	14.3
7	#17475.00	47.2 PK	68.2	-21.0	1.33 V	261	28.4	18.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 38 : 5190 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.10 H	269	61.2	4.6
2	5150.00	49.9 AV	54.0	-4.1	1.10 H	269	45.3	4.6
3	*5190.00	96.8 PK			1.10 H	269	92.4	4.4
4	*5190.00	88.2 AV			1.10 H	269	83.8	4.4
5	#10380.00	47.1 PK	68.2	-21.1	1.91 H	72	33.7	13.4
6	15570.00	46.7 PK	74.0	-27.3	1.67 H	146	32.3	14.4
7	15570.00	35.3 AV	54.0	-18.7	1.67 H	146	20.9	14.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.44 V	142	61.0	4.6
2	5150.00	52.3 AV	54.0	-1.7	1.44 V	142	47.7	4.6
3	*5190.00	102.3 PK			1.44 V	142	97.9	4.4
4	*5190.00	94.5 AV			1.44 V	142	90.1	4.4
5	#10380.00	47.0 PK	68.2	-21.2	1.64 V	183	33.6	13.4
6	15570.00	46.9 PK	74.0	-27.1	1.34 V	231	32.5	14.4
7	15570.00	35.4 AV	54.0	-18.6	1.34 V	231	21.0	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 46 : 5230 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	96.1 PK			1.19 H	283	91.7	4.4
2	*5230.00	87.0 AV			1.19 H	283	82.6	4.4
3	5350.00	52.4 PK	74.0	-21.6	1.19 H	283	48.1	4.3
4	5350.00	41.3 AV	54.0	-12.7	1.19 H	283	37.0	4.3
5	#10460.00	47.3 PK	68.2	-20.9	1.89 H	53	33.7	13.6
6	15690.00	46.5 PK	74.0	-27.5	1.66 H	166	32.1	14.4
7	15690.00	35.2 AV	54.0	-18.8	1.66 H	166	20.8	14.4

**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	*5230.00	106.1 PK			1.02 V	120	101.7	4.4
2	*5230.00	97.9 AV			1.02 V	120	93.5	4.4
3	5350.00	52.6 PK	74.0	-21.4	1.02 V	120	48.3	4.3
4	5350.00	41.7 AV	54.0	-12.3	1.02 V	120	37.4	4.3
5	#10460.00	46.6 PK	68.2	-21.6	1.61 V	181	33.0	13.6
6	15690.00	47.1 PK	74.0	-26.9	1.39 V	259	32.7	14.4
7	15690.00	35.6 AV	54.0	-18.4	1.39 V	259	21.2	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 54 : 5270 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.3 PK	74.0	-21.7	1.18 H	285	47.7	4.6
2	5150.00	42.2 AV	54.0	-11.8	1.18 H	285	37.6	4.6
3	*5270.00	96.0 PK			1.18 H	285	91.7	4.3
4	*5270.00	87.2 AV			1.18 H	285	82.9	4.3
5	#10540.00	47.6 PK	68.2	-20.6	1.83 H	48	33.9	13.7
6	15810.00	47.3 PK	74.0	-26.7	1.62 H	138	33.2	14.1
7	15810.00	35.8 AV	54.0	-18.2	1.62 H	138	21.7	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.6 PK	74.0	-21.4	1.13 V	110	48.0	4.6
2	5150.00	42.7 AV	54.0	-11.3	1.13 V	110	38.1	4.6
3	*5270.00	105.8 PK			1.13 V	110	101.5	4.3
4	*5270.00	97.5 AV			1.13 V	110	93.2	4.3
5	#10540.00	46.7 PK	68.2	-21.5	1.69 V	158	33.0	13.7
6	15810.00	47.1 PK	74.0	-26.9	1.40 V	253	33.0	14.1
7	15810.00	35.8 AV	54.0	-18.2	1.40 V	253	21.7	14.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 62 : 5310 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	95.7 PK			1.19 H	270	91.4	4.3
2	*5310.00	86.9 AV			1.19 H	270	82.6	4.3
3	5350.00	62.1 PK	74.0	-11.9	1.19 H	270	57.8	4.3
4	5350.00	44.2 AV	54.0	-9.8	1.19 H	270	39.9	4.3
5	10620.00	47.3 PK	74.0	-26.7	1.82 H	66	33.6	13.7
6	10620.00	35.6 AV	54.0	-18.4	1.82 H	66	21.9	13.7
7	15930.00	46.9 PK	74.0	-27.1	1.73 H	144	32.9	14.0
8	15930.00	35.1 AV	54.0	-18.9	1.73 H	144	21.1	14.0

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	*5310.00	103.9 PK			1.16 V	116	99.6	4.3
2	*5310.00	96.4 AV			1.16 V	116	92.1	4.3
3	5350.00	64.7 PK	74.0	-9.3	1.16 V	116	60.4	4.3
4	5350.00	51.9 AV	54.0	-2.1	1.16 V	116	47.6	4.3
5	10620.00	47.1 PK	74.0	-26.9	1.69 V	169	33.4	13.7
6	10620.00	35.2 AV	54.0	-18.8	1.69 V	169	21.5	13.7
7	15930.00	47.3 PK	74.0	-26.7	1.31 V	250	33.3	14.0
8	15930.00	35.8 AV	54.0	-18.2	1.31 V	250	21.8	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 102 : 5510 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.3 PK	74.0	-21.7	1.26 H	277	47.9	4.4
2	5460.00	40.6 AV	54.0	-13.4	1.26 H	277	36.2	4.4
3	#5463.96	53.7 PK	68.2	-14.5	1.00 H	0	49.2	4.5
4	*5510.00	93.5 PK			1.26 H	277	88.9	4.6
5	*5510.00	84.9 AV			1.26 H	277	80.3	4.6
6	11020.00	47.6 PK	74.0	-26.4	1.83 H	56	33.5	14.1
7	11020.00	35.8 AV	54.0	-18.2	1.83 H	56	21.7	14.1
8	#16530.00	47.3 PK	68.2	-20.9	1.67 H	164	31.4	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	1.10 V	118	55.8	4.4
2	5460.00	44.7 AV	54.0	-9.3	1.10 V	118	40.3	4.4
3	#5468.45	66.8 PK	68.2	-1.4	1.10 V	118	62.3	4.5
4	*5510.00	100.5 PK			1.10 V	118	95.9	4.6
5	*5510.00	92.7 AV			1.10 V	118	88.1	4.6
6	11020.00	46.9 PK	74.0	-27.1	1.70 V	156	32.8	14.1
7	11020.00	35.5 AV	54.0	-18.5	1.70 V	156	21.4	14.1
8	#16530.00	47.6 PK	68.2	-20.6	1.42 V	240	31.7	15.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 110 : 5550 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	96.5 PK			1.28 H	263	92.0	4.5
2	*5550.00	87.2 AV			1.28 H	263	82.7	4.5
3	11100.00	47.8 PK	74.0	-26.2	1.85 H	76	33.9	13.9
4	11100.00	36.0 AV	54.0	-18.0	1.85 H	76	22.1	13.9
5	#16650.00	46.7 PK	68.2	-21.5	1.68 H	140	30.4	16.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	104.3 PK			1.13 V	119	99.8	4.5
2	*5550.00	95.7 AV			1.13 V	119	91.2	4.5
3	11100.00	46.9 PK	74.0	-27.1	1.65 V	173	33.0	13.9
4	11100.00	35.1 AV	54.0	-18.9	1.65 V	173	21.2	13.9
5	#16650.00	47.8 PK	68.2	-20.4	1.40 V	230	31.5	16.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 134 : 5670 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	96.4 PK			1.51 H	245	91.9	4.5
2	*5670.00	87.3 AV			1.51 H	245	82.8	4.5
3	#5725.00	60.1 PK	68.2	-8.1	1.51 H	245	55.5	4.6
4	11340.00	47.8 PK	74.0	-26.2	1.83 H	60	33.4	14.4
5	11340.00	35.9 AV	54.0	-18.1	1.83 H	60	21.5	14.4
6	#17010.00	47.2 PK	68.2	-21.0	1.71 H	166	29.5	17.7

**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	*5670.00	104.2 PK			1.11 V	111	99.7	4.5
2	*5670.00	95.8 AV			1.11 V	111	91.3	4.5
3	#5725.00	62.3 PK	68.2	-5.9	1.11 V	111	57.7	4.6
4	11340.00	46.9 PK	74.0	-27.1	1.61 V	183	32.5	14.4
5	11340.00	35.4 AV	54.0	-18.6	1.61 V	183	21.0	14.4
6	#17010.00	46.9 PK	68.2	-21.3	1.33 V	255	29.2	17.7

**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.



<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 142 : 5710 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	50.9 PK	74.0	-23.1	1.48 H	241	46.5	4.4
2	5460.00	40.4 AV	54.0	-13.6	1.48 H	241	36.0	4.4
3	#5470.00	51.0 PK	68.2	-17.2	1.48 H	241	46.5	4.5
4	*5710.00	95.1 PK			1.48 H	241	90.5	4.6
5	*5710.00	86.5 AV			1.48 H	241	81.9	4.6
6	#5850.00	52.4 PK	68.2	-15.8	1.48 H	241	47.5	4.9
7	11420.00	47.7 PK	74.0	-26.3	1.83 H	72	33.2	14.5
8	11420.00	35.8 AV	54.0	-18.2	1.83 H	72	21.3	14.5
9	#17130.00	46.9 PK	68.2	-21.3	1.68 H	136	29.2	17.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.9 PK	74.0	-23.1	1.08 V	114	46.5	4.4
2	5460.00	40.5 AV	54.0	-13.5	1.08 V	114	36.1	4.4
3	#5470.00	51.1 PK	68.2	-17.1	1.08 V	114	46.6	4.5
4	*5710.00	103.7 PK			1.08 V	114	99.1	4.6
5	*5710.00	95.3 AV			1.08 V	114	90.7	4.6
6	#5850.00	52.3 PK	68.2	-15.9	1.08 V	114	47.4	4.9
7	11420.00	46.8 PK	74.0	-27.2	1.70 V	161	32.3	14.5
8	11420.00	35.0 AV	54.0	-19.0	1.70 V	161	20.5	14.5
9	#17130.00	47.0 PK	68.2	-21.2	1.41 V	236	29.3	17.7

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 151 : 5755 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.43	52.1 PK	68.2	-16.1	1.54 H	251	47.6	4.5
2	*5755.00	99.2 PK			1.54 H	251	94.3	4.9
3	*5755.00	91.5 AV			1.54 H	251	86.6	4.9
4	#5957.26	51.9 PK	68.2	-16.3	1.54 H	251	46.7	5.2
5	11510.00	47.2 PK	74.0	-26.8	1.89 H	48	32.7	14.5
6	11510.00	35.6 AV	54.0	-18.4	1.89 H	48	21.1	14.5
7	#17265.00	47.7 PK	68.2	-20.5	1.63 H	151	29.8	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.87	58.8 PK	68.2	-9.4	1.34 V	41	54.3	4.5
2	*5755.00	107.2 PK			1.34 V	41	102.3	4.9
3	*5755.00	99.4 AV			1.34 V	41	94.5	4.9
4	#5928.19	52.7 PK	68.2	-15.5	1.34 V	41	47.7	5.0
5	11510.00	46.5 PK	74.0	-27.5	1.66 V	182	32.0	14.5
6	11510.00	34.9 AV	54.0	-19.1	1.66 V	182	20.4	14.5
7	#17265.00	46.6 PK	68.2	-21.6	1.31 V	253	28.7	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 159 : 5795 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5576.56	52.4 PK	68.2	-15.8	1.56 H	247	47.9	4.5
2	*5795.00	99.3 PK			1.56 H	247	94.3	5.0
3	*5795.00	91.3 AV			1.56 H	247	86.3	5.0
4	#6023.15	52.4 PK	68.2	-15.8	1.56 H	247	47.2	5.2
5	11590.00	47.4 PK	74.0	-26.6	1.83 H	62	33.0	14.4
6	11590.00	35.6 AV	54.0	-18.4	1.83 H	62	21.2	14.4
7	#17385.00	46.9 PK	68.2	-21.3	1.71 H	162	28.6	18.3

**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	#5644.49	57.1 PK	68.2	-11.1	1.38 V	47	52.6	4.5
2	*5795.00	106.9 PK			1.38 V	47	101.9	5.0
3	*5795.00	99.1 AV			1.38 V	47	94.1	5.0
4	#5929.90	52.3 PK	68.2	-15.9	1.38 V	47	47.3	5.0
5	11590.00	46.7 PK	74.0	-27.3	1.71 V	179	32.3	14.4
6	11590.00	34.8 AV	54.0	-19.2	1.71 V	179	20.4	14.4
7	#17385.00	47.6 PK	68.2	-20.6	1.35 V	250	29.3	18.3

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 42 : 5210 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	53.7 PK	74.0	-20.3	1.11 H	271	49.1	4.6
2	5150.00	43.1 AV	54.0	-10.9	1.11 H	271	38.5	4.6
3	*5210.00	91.8 PK			1.11 H	271	87.4	4.4
4	*5210.00	82.4 AV			1.11 H	271	78.0	4.4
5	5350.00	49.7 PK	74.0	-24.3	1.11 H	271	45.4	4.3
6	5350.00	39.8 AV	54.0	-14.2	1.11 H	271	35.5	4.3
7	#10420.00	47.5 PK	68.2	-20.7	1.92 H	53	34.0	13.5
8	15630.00	46.9 PK	74.0	-27.1	1.73 H	148	32.4	14.5
9	15630.00	35.7 AV	54.0	-18.3	1.73 H	148	21.2	14.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	1.08 V	117	57.0	4.6
2	5150.00	52.7 AV	54.0	-1.3	1.08 V	117	48.1	4.6
3	*5210.00	98.5 PK			1.08 V	117	94.1	4.4
4	*5210.00	91.2 AV			1.08 V	117	86.8	4.4
5	5350.00	53.1 PK	74.0	-20.9	1.08 V	117	48.8	4.3
6	5350.00	44.3 AV	54.0	-9.7	1.08 V	117	40.0	4.3
7	#10420.00	46.5 PK	68.2	-21.7	1.70 V	167	33.0	13.5
8	15630.00	47.4 PK	74.0	-26.6	1.41 V	236	32.9	14.5
9	15630.00	35.8 AV	54.0	-18.2	1.41 V	236	21.3	14.5

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.2 PK	74.0	-21.8	1.25 H	289	47.6	4.6
2	5150.00	41.5 AV	54.0	-12.5	1.25 H	289	36.9	4.6
3	*5290.00	92.2 PK			1.25 H	289	87.9	4.3
4	*5290.00	83.1 AV			1.25 H	289	78.8	4.3
5	5350.00	54.6 PK	74.0	-19.4	1.25 H	289	50.3	4.3
6	5350.00	43.0 AV	54.0	-11.0	1.25 H	289	38.7	4.3
7	#10580.00	47.8 PK	68.2	-20.4	1.91 H	75	34.2	13.6
8	15870.00	47.6 PK	74.0	-26.4	1.67 H	166	33.6	14.0
9	15870.00	35.8 AV	54.0	-18.2	1.67 H	166	21.8	14.0

**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	55.7 PK	74.0	-18.3	1.04 V	115	51.1	4.6
2	5150.00	45.3 AV	54.0	-8.7	1.04 V	115	40.7	4.6
3	*5290.00	99.5 PK			1.04 V	115	95.2	4.3
4	*5290.00	92.4 AV			1.04 V	115	88.1	4.3
5	5350.00	62.8 PK	74.0	-11.2	1.04 V	115	58.5	4.3
6	5350.00	52.5 AV	54.0	-1.5	1.04 V	115	48.2	4.3
7	#10580.00	46.7 PK	68.2	-21.5	1.69 V	167	33.1	13.6
8	15870.00	47.2 PK	74.0	-26.8	1.41 V	229	33.2	14.0
9	15870.00	35.8 AV	54.0	-18.2	1.41 V	229	21.8	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 106 : 5530 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.3 PK	74.0	-21.7	1.36 H	276	47.9	4.4
2	5460.00	41.9 AV	54.0	-12.1	1.36 H	276	37.5	4.4
3	#5470.00	52.6 PK	68.2	-15.6	1.36 H	276	48.1	4.5
4	*5530.00	89.2 PK			1.36 H	276	84.6	4.6
5	*5530.00	81.1 AV			1.36 H	276	76.5	4.6
6	#5725.00	50.8 PK	68.2	-17.4	1.36 H	276	46.2	4.6
7	11060.00	47.9 PK	74.0	-26.1	1.83 H	73	33.9	14.0
8	11060.00	36.0 AV	54.0	-18.0	1.83 H	73	22.0	14.0
9	#16590.00	47.1 PK	68.2	-21.1	1.67 H	152	31.0	16.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.3 PK	74.0	-11.7	1.24 V	161	57.9	4.4
2	5460.00	52.8 AV	54.0	-1.2	1.24 V	161	48.4	4.4
3	#5470.00	64.2 PK	68.2	-4.0	1.24 V	161	59.7	4.5
4	*5530.00	96.4 PK			1.24 V	161	91.8	4.6
5	*5530.00	89.5 AV			1.24 V	161	84.9	4.6
6	#5725.00	51.4 PK	68.2	-16.8	1.24 V	161	46.8	4.6
7	11060.00	47.3 PK	74.0	-26.7	1.62 V	181	33.3	14.0
8	11060.00	35.4 AV	54.0	-18.6	1.62 V	181	21.4	14.0
9	#16590.00	47.3 PK	68.2	-20.9	1.36 V	258	31.2	16.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 122 : 5610 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	91.8 PK			1.33 H	291	87.3	4.5
2	*5610.00	83.0 AV			1.33 H	291	78.5	4.5
3	#5725.00	55.8 PK	68.2	-12.4	1.33 H	291	51.2	4.6
4	11220.00	47.1 PK	74.0	-26.9	1.86 H	74	32.7	14.4
5	11220.00	35.2 AV	54.0	-18.8	1.86 H	74	20.8	14.4
6	#16830.00	47.8 PK	68.2	-20.4	1.62 H	158	30.6	17.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	99.3 PK			1.13 V	113	94.8	4.5
2	*5610.00	92.5 AV			1.13 V	113	88.0	4.5
3	#5725.00	57.7 PK	68.2	-10.5	1.13 V	113	53.1	4.6
4	11220.00	47.1 PK	74.0	-26.9	1.62 V	172	32.7	14.4
5	11220.00	35.3 AV	54.0	-18.7	1.62 V	172	20.9	14.4
6	#16830.00	46.9 PK	68.2	-21.3	1.37 V	255	29.7	17.2

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 138 : 5690 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.3 PK	74.0	-22.7	1.33 H	262	46.9	4.4
2	5460.00	41.1 AV	54.0	-12.9	1.33 H	262	36.7	4.4
3	#5470.00	50.0 PK	68.2	-18.2	1.33 H	262	45.5	4.5
4	*5690.00	92.3 PK			1.33 H	262	87.8	4.5
5	*5690.00	83.2 AV			1.33 H	262	78.7	4.5
6	#5850.00	52.1 PK	68.2	-16.1	1.33 H	262	47.2	4.9
7	11380.00	46.6 PK	74.0	-27.4	1.83 H	71	32.1	14.5
8	11380.00	35.0 AV	54.0	-19.0	1.83 H	71	20.5	14.5
9	#17070.00	47.3 PK	68.2	-20.9	1.62 H	163	29.5	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.11 V	118	47.0	4.4
2	5460.00	41.2 AV	54.0	-12.8	1.11 V	118	36.8	4.4
3	#5470.00	50.7 PK	68.2	-17.5	1.11 V	118	46.2	4.5
4	*5690.00	99.0 PK			1.11 V	118	94.5	4.5
5	*5690.00	92.3 AV			1.11 V	118	87.8	4.5
6	#5850.00	52.2 PK	68.2	-16.0	1.11 V	118	47.3	4.9
7	11380.00	47.0 PK	74.0	-27.0	1.71 V	164	32.5	14.5
8	11380.00	35.6 AV	54.0	-18.4	1.71 V	164	21.1	14.5
9	#17070.00	47.0 PK	68.2	-21.2	1.34 V	254	29.2	17.8

**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.



<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 155 : 5775 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.44	55.5 PK	68.2	-12.7	1.57 H	251	51.0	4.5
2	*5775.00	94.6 PK			1.57 H	251	89.6	5.0
3	*5775.00	87.6 AV			1.57 H	251	82.6	5.0
4	#5934.98	53.4 PK	68.2	-14.8	1.57 H	251	48.4	5.0
5	11550.00	47.4 PK	74.0	-26.6	1.84 H	55	32.9	14.5
6	11550.00	35.6 AV	54.0	-18.4	1.84 H	55	21.1	14.5
7	#17325.00	46.6 PK	68.2	-21.6	1.67 H	161	28.5	18.1

**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	#5648.38	61.2 PK	68.2	-7.0	1.32 V	41	56.7	4.5
2	*5775.00	102.7 PK			1.32 V	41	97.7	5.0
3	*5775.00	95.4 AV			1.32 V	41	90.4	5.0
4	#5928.14	54.1 PK	68.2	-14.1	1.32 V	41	49.1	5.0
5	11550.00	47.0 PK	74.0	-27.0	1.72 V	177	32.5	14.5
6	11550.00	35.2 AV	54.0	-18.8	1.72 V	177	20.7	14.5
7	#17325.00	47.0 PK	68.2	-21.2	1.42 V	233	28.9	18.1

**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.

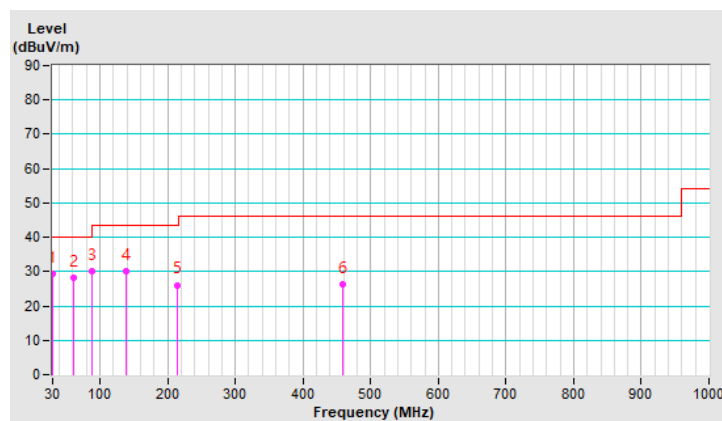
### Below 1GHz Data:

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	9kHz ~ 1GHz	<b>Detector Function</b>	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.28	29.4 QP	40.0	-10.6	1.50 H	48	38.8	-9.4
2	60.56	28.1 QP	40.0	-11.9	1.50 H	49	37.0	-8.9
3	88.10	30.0 QP	43.5	-13.5	2.50 H	288	43.9	-13.9
4	139.23	30.2 QP	43.5	-13.3	2.00 H	247	38.3	-8.1
5	213.99	26.1 QP	43.5	-17.4	2.00 H	161	36.7	-10.6
6	458.76	26.2 QP	46.0	-19.8	1.50 H	106	28.1	-1.9

### Remarks:

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



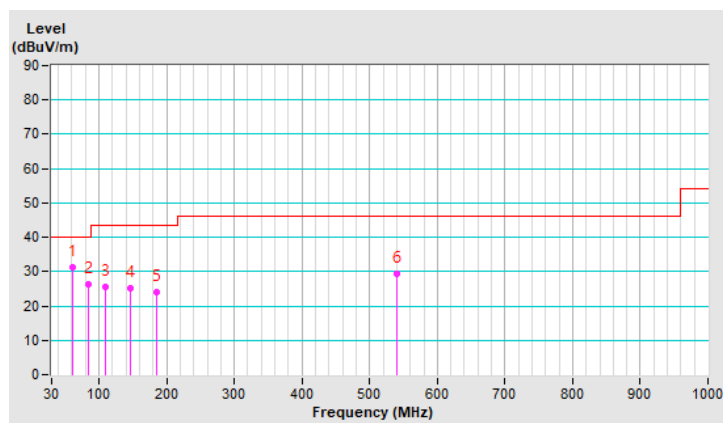
<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	9kHz ~ 1GHz	<b>Detector Function</b>	Quasi-Peak (QP)

**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	61.03	31.2 QP	40.0	-8.8	1.00 V	196	40.2	-9.0
2	85.08	26.3 QP	40.0	-13.7	1.50 V	63	40.0	-13.7
3	110.23	25.4 QP	43.5	-18.1	1.00 V	148	36.2	-10.8
4	146.93	25.3 QP	43.5	-18.2	1.50 V	189	32.8	-7.5
5	186.00	24.1 QP	43.5	-19.4	1.00 V	157	33.9	-9.8
6	539.93	29.2 QP	46.0	-16.8	1.00 V	163	29.6	-0.4

**Remarks:**

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



#### 4.1.8 Test Results (Mode 2)

##### Above 1GHz Data:

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.9 PK	74.0	-5.1	1.06 H	114	64.3	4.6
2	5150.00	53.4 AV	54.0	-0.6	1.06 H	114	48.8	4.6
3	*5180.00	107.4 PK			1.06 H	114	102.9	4.5
4	*5180.00	98.0 AV			1.06 H	114	93.5	4.5
5	#10360.00	47.9 PK	68.2	-20.3	1.92 H	65	34.5	13.4
6	15540.00	46.1 PK	74.0	-27.9	1.72 H	138	31.8	14.3
7	15540.00	35.1 AV	54.0	-18.9	1.72 H	138	20.8	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.47 V	297	61.4	4.6
2	5150.00	53.2 AV	54.0	-0.8	1.47 V	297	48.6	4.6
3	*5180.00	104.6 PK			1.47 V	297	100.1	4.5
4	*5180.00	95.1 AV			1.47 V	297	90.6	4.5
5	#10360.00	46.8 PK	68.2	-21.4	1.64 V	172	33.4	13.4
6	15540.00	47.1 PK	74.0	-26.9	1.35 V	250	32.8	14.3
7	15540.00	35.5 AV	54.0	-18.5	1.35 V	250	21.2	14.3

##### Remarks:

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	107.0 PK			2.00 H	126	102.7	4.3
2	*5200.00	99.8 AV			2.00 H	126	95.5	4.3
3	#10400.00	48.0 PK	68.2	-20.2	1.89 H	69	34.5	13.5
4	15600.00	45.9 PK	74.0	-28.1	1.71 H	136	31.5	14.4
5	15600.00	34.8 AV	54.0	-19.2	1.71 H	136	20.4	14.4

**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	*5200.00	104.7 PK			1.43 V	296	100.4	4.3
2	*5200.00	95.4 AV			1.43 V	296	91.1	4.3
3	#10400.00	46.8 PK	68.2	-21.4	1.66 V	181	33.3	13.5
4	15600.00	46.6 PK	74.0	-27.4	1.39 V	237	32.2	14.4
5	15600.00	35.2 AV	54.0	-18.8	1.39 V	237	20.8	14.4

**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.

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	106.9 PK			1.15 H	116	102.5	4.4
2	*5240.00	96.9 AV			1.15 H	116	92.5	4.4
3	5350.00	48.5 PK	74.0	-25.5	1.15 H	116	44.2	4.3
4	5350.00	37.7 AV	54.0	-16.3	1.15 H	116	33.4	4.3
5	#10480.00	47.7 PK	68.2	-20.5	1.90 H	51	34.1	13.6
6	15720.00	46.7 PK	74.0	-27.3	1.61 H	146	32.4	14.3
7	15720.00	35.3 AV	54.0	-18.7	1.61 H	146	21.0	14.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	102.3 PK			1.50 V	311	97.9	4.4
2	*5240.00	93.7 AV			1.50 V	311	89.3	4.4
3	5350.00	48.2 PK	74.0	-25.8	1.50 V	311	43.9	4.3
4	5350.00	37.2 AV	54.0	-16.8	1.50 V	311	32.9	4.3
5	#10480.00	47.5 PK	68.2	-20.7	1.67 V	198	33.9	13.6
6	15720.00	47.3 PK	74.0	-26.7	1.42 V	249	33.0	14.3
7	15720.00	35.5 AV	54.0	-18.5	1.42 V	249	21.2	14.3

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	48.8 PK	74.0	-25.2	1.12 H	115	44.2	4.6
2	5150.00	38.0 AV	54.0	-16.0	1.12 H	115	33.4	4.6
3	*5260.00	107.9 PK			1.12 H	115	103.6	4.3
4	*5260.00	98.5 AV			1.12 H	115	94.2	4.3
5	#10520.00	47.4 PK	68.2	-20.8	1.93 H	40	33.7	13.7
6	15780.00	47.0 PK	74.0	-27.0	1.61 H	125	32.9	14.1
7	15780.00	35.3 AV	54.0	-18.7	1.61 H	125	21.2	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	48.4 PK	74.0	-25.6	1.39 V	284	43.8	4.6
2	5150.00	37.5 AV	54.0	-16.5	1.39 V	284	32.9	4.6
3	*5260.00	105.2 PK			1.39 V	284	100.9	4.3
4	*5260.00	95.8 AV			1.39 V	284	91.5	4.3
5	#10520.00	47.5 PK	68.2	-20.7	1.61 V	172	33.8	13.7
6	15780.00	46.8 PK	74.0	-27.2	1.36 V	259	32.7	14.1
7	15780.00	35.5 AV	54.0	-18.5	1.36 V	259	21.4	14.1

**Remarks:**

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.5 PK			1.11 H	118	104.2	4.3
2	*5300.00	99.0 AV			1.11 H	118	94.7	4.3
3	10600.00	47.6 PK	74.0	-26.4	1.93 H	54	34.0	13.6
4	10600.00	35.8 AV	54.0	-18.2	1.93 H	54	22.2	13.6
5	15900.00	46.7 PK	74.0	-27.3	1.66 H	137	32.7	14.0
6	15900.00	35.3 AV	54.0	-18.7	1.66 H	137	21.3	14.0
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	*5300.00	104.7 PK			1.37 V	276	100.4	4.3
2	*5300.00	95.3 AV			1.37 V	276	91.0	4.3
3	10600.00	47.3 PK	74.0	-26.7	1.64 V	183	33.7	13.6
4	10600.00	35.4 AV	54.0	-18.6	1.64 V	183	21.8	13.6
5	15900.00	47.1 PK	74.0	-26.9	1.39 V	251	33.1	14.0
6	15900.00	35.5 AV	54.0	-18.5	1.39 V	251	21.5	14.0

**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.



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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	108.2 PK			1.19 H	115	103.9	4.3
2	*5320.00	98.3 AV			1.19 H	115	94.0	4.3
3	5350.00	65.8 PK	74.0	-8.2	1.19 H	115	61.5	4.3
4	5350.00	53.3 AV	54.0	-0.7	1.19 H	115	49.0	4.3
5	10640.00	47.6 PK	74.0	-26.4	1.95 H	54	33.9	13.7
6	10640.00	35.7 AV	54.0	-18.3	1.95 H	54	22.0	13.7
7	15960.00	46.0 PK	74.0	-28.0	1.66 H	122	31.9	14.1
8	15960.00	34.9 AV	54.0	-19.1	1.66 H	122	20.8	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	101.6 PK			1.41 V	292	97.3	4.3
2	*5320.00	91.6 AV			1.41 V	292	87.3	4.3
3	5350.00	59.6 PK	74.0	-14.4	1.41 V	292	55.3	4.3
4	5350.00	51.7 AV	54.0	-2.3	1.41 V	292	47.4	4.3
5	10640.00	47.6 PK	74.0	-26.4	1.63 V	196	33.9	13.7
6	10640.00	35.8 AV	54.0	-18.2	1.63 V	196	22.1	13.7
7	15960.00	47.4 PK	74.0	-26.6	1.44 V	249	33.3	14.1
8	15960.00	35.7 AV	54.0	-18.3	1.44 V	249	21.6	14.1

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	61.9 PK	74.0	-12.1	1.10 H	116	57.5	4.4
2	5460.00	48.8 AV	54.0	-5.2	1.10 H	116	44.4	4.4
3	#5464.50	67.6 PK	68.2	-0.6	1.10 H	116	63.1	4.5
4	*5500.00	102.5 PK			1.10 H	116	97.9	4.6
5	*5500.00	93.4 AV			1.10 H	116	88.8	4.6
6	11000.00	48.1 PK	74.0	-25.9	1.97 H	61	33.9	14.2
7	11000.00	36.2 AV	54.0	-17.8	1.97 H	61	22.0	14.2
8	#16500.00	46.7 PK	68.2	-21.5	1.72 H	147	30.8	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.1 PK	74.0	-9.9	1.34 V	300	59.7	4.4
2	5460.00	51.1 AV	54.0	-2.9	1.34 V	300	46.7	4.4
3	#5470.00	67.3 PK	68.2	-0.9	1.34 V	300	62.8	4.5
4	*5500.00	100.6 PK			1.34 V	300	96.0	4.6
5	*5500.00	91.3 AV			1.34 V	300	86.7	4.6
6	11000.00	47.9 PK	74.0	-26.1	1.67 V	170	33.7	14.2
7	11000.00	35.7 AV	54.0	-18.3	1.67 V	170	21.5	14.2
8	#16500.00	47.1 PK	68.2	-21.1	1.45 V	249	31.2	15.9

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	101.1 PK			1.94 H	113	96.6	4.5
2	*5580.00	91.6 AV			1.94 H	113	87.1	4.5
3	11160.00	47.3 PK	74.0	-26.7	1.90 H	43	33.2	14.1
4	11160.00	35.8 AV	54.0	-18.2	1.90 H	43	21.7	14.1
5	#16740.00	46.7 PK	68.2	-21.5	1.72 H	151	30.0	16.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	98.8 PK			1.39 V	288	94.3	4.5
2	*5580.00	89.6 AV			1.39 V	288	85.1	4.5
3	11160.00	47.6 PK	74.0	-26.4	1.62 V	194	33.5	14.1
4	11160.00	35.5 AV	54.0	-18.5	1.62 V	194	21.4	14.1
5	#16740.00	47.0 PK	68.2	-21.2	1.36 V	248	30.3	16.7

**Remarks:**

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

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	104.3 PK			1.92 H	102	99.8	4.5
2	*5700.00	95.0 AV			1.92 H	102	90.5	4.5
3	#5725.00	67.4 PK	68.2	-0.8	1.92 H	102	62.8	4.6
4	11400.00	47.6 PK	74.0	-26.4	1.95 H	59	33.1	14.5
5	11400.00	35.9 AV	54.0	-18.1	1.95 H	59	21.4	14.5
6	#17100.00	46.3 PK	68.2	-21.9	1.61 H	129	28.6	17.7

**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	*5700.00	101.9 PK			1.54 V	310	97.4	4.5
2	*5700.00	93.2 AV			1.54 V	310	88.7	4.5
3	#5725.00	64.3 PK	68.2	-3.9	1.54 V	310	59.7	4.6
4	11400.00	47.2 PK	74.0	-26.8	1.58 V	198	32.7	14.5
5	11400.00	35.0 AV	54.0	-19.0	1.58 V	198	20.5	14.5
6	#17100.00	47.5 PK	68.2	-20.7	1.43 V	236	29.8	17.7

**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.

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	49.6 PK	74.0	-24.4	1.97 H	116	45.2	4.4
2	5460.00	37.7 AV	54.0	-16.3	1.97 H	116	33.3	4.4
3	#5470.00	49.7 PK	68.2	-18.5	1.97 H	116	45.2	4.5
4	*5720.00	105.9 PK			1.97 H	116	101.3	4.6
5	*5720.00	95.8 AV			1.97 H	116	91.2	4.6
6	#5850.00	51.0 PK	68.2	-17.2	1.97 H	116	46.1	4.9
7	11440.00	47.0 PK	74.0	-27.0	1.89 H	50	32.5	14.5
8	11440.00	35.3 AV	54.0	-18.7	1.89 H	50	20.8	14.5
9	#17160.00	46.7 PK	68.2	-21.5	1.60 H	122	28.9	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	49.2 PK	74.0	-24.8	1.55 V	301	44.8	4.4
2	5460.00	37.3 AV	54.0	-16.7	1.55 V	301	32.9	4.4
3	#5470.00	49.3 PK	68.2	-18.9	1.55 V	301	44.8	4.5
4	*5720.00	101.5 PK			1.55 V	301	96.9	4.6
5	*5720.00	92.8 AV			1.55 V	301	88.2	4.6
6	#5850.00	50.7 PK	68.2	-17.5	1.55 V	301	45.8	4.9
7	11440.00	46.5 PK	74.0	-27.5	1.63 V	168	32.0	14.5
8	11440.00	34.9 AV	54.0	-19.1	1.63 V	168	20.4	14.5
9	#17160.00	46.8 PK	68.2	-21.4	1.43 V	252	29.0	17.8

**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.

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

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.69	52.1 PK	68.2	-16.1	2.11 H	127	47.6	4.5
2	*5745.00	106.2 PK			2.11 H	127	101.3	4.9
3	*5745.00	97.8 AV			2.11 H	127	92.9	4.9
4	#5926.62	52.1 PK	68.2	-16.1	2.11 H	127	47.1	5.0
5	11490.00	47.3 PK	74.0	-26.7	1.98 H	50	32.8	14.5
6	11490.00	35.4 AV	54.0	-18.6	1.98 H	50	20.9	14.5
7	#17235.00	46.2 PK	68.2	-22.0	1.61 H	145	28.3	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5583.44	51.8 PK	68.2	-16.4	2.88 V	196	47.3	4.5
2	*5745.00	105.4 PK			2.88 V	196	100.5	4.9
3	*5745.00	97.4 AV			2.88 V	196	92.5	4.9
4	#5972.89	52.0 PK	68.2	-16.2	2.88 V	196	46.8	5.2
5	11490.00	46.4 PK	74.0	-27.6	1.66 V	176	31.9	14.5
6	11490.00	34.8 AV	54.0	-19.2	1.66 V	176	20.3	14.5
7	#17235.00	46.4 PK	68.2	-21.8	1.33 V	222	28.5	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5598.41	51.8 PK	68.2	-16.4	2.08 H	123	47.3	4.5
2	*5785.00	106.2 PK			2.08 H	123	101.2	5.0
3	*5785.00	97.9 AV			2.08 H	123	92.9	5.0
4	#5943.91	51.5 PK	68.2	-16.7	2.08 H	123	46.5	5.0
5	11570.00	47.9 PK	74.0	-26.1	1.93 H	51	33.4	14.5
6	11570.00	36.0 AV	54.0	-18.0	1.93 H	51	21.5	14.5
7	#17355.00	46.9 PK	68.2	-21.3	1.62 H	136	28.7	18.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5585.34	52.5 PK	68.2	-15.7	2.84 V	205	48.0	4.5
2	*5785.00	105.5 PK			2.84 V	205	100.5	5.0
3	*5785.00	97.4 AV			2.84 V	205	92.4	5.0
4	#5955.26	52.5 PK	68.2	-15.7	2.84 V	205	47.4	5.1
5	11570.00	47.0 PK	74.0	-27.0	1.68 V	192	32.5	14.5
6	11570.00	35.1 AV	54.0	-18.9	1.68 V	192	20.6	14.5
7	#17355.00	46.7 PK	68.2	-21.5	1.41 V	250	28.5	18.2

**Remarks:**

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

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.89	53.0 PK	68.2	-15.2	1.98 H	121	48.5	4.5
2	*5825.00	107.3 PK			1.98 H	121	102.4	4.9
3	*5825.00	99.9 AV			1.98 H	121	95.0	4.9
4	#5981.63	52.2 PK	68.2	-16.0	1.98 H	121	47.0	5.2
5	11650.00	48.1 PK	74.0	-25.9	1.99 H	53	33.8	14.3
6	11650.00	36.2 AV	54.0	-17.8	1.99 H	53	21.9	14.3
7	#17475.00	46.0 PK	68.2	-22.2	1.67 H	136	27.2	18.8

**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	#5578.08	52.9 PK	68.2	-15.3	2.88 V	203	48.4	4.5
2	*5825.00	105.2 PK			2.88 V	203	100.3	4.9
3	*5825.00	97.0 AV			2.88 V	203	92.1	4.9
4	#5926.95	52.7 PK	68.2	-15.5	2.88 V	203	47.7	5.0
5	11650.00	47.0 PK	74.0	-27.0	1.65 V	197	32.7	14.3
6	11650.00	35.1 AV	54.0	-18.9	1.65 V	197	20.8	14.3
7	#17475.00	46.7 PK	68.2	-21.5	1.34 V	254	27.9	18.8

**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.



<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	2.12 H	243	62.2	4.6
2	5150.00	53.4 AV	54.0	-0.6	2.12 H	243	48.8	4.6
3	*5180.00	106.6 PK			2.12 H	243	102.1	4.5
4	*5180.00	98.9 AV			2.12 H	243	94.4	4.5
5	#10360.00	47.8 PK	68.2	-20.4	1.97 H	62	34.4	13.4
6	15540.00	46.8 PK	74.0	-27.2	1.71 H	124	32.5	14.3
7	15540.00	35.6 AV	54.0	-18.4	1.71 H	124	21.3	14.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	4.00 V	165	60.7	4.6
2	5150.00	52.2 AV	54.0	-1.8	4.00 V	165	47.6	4.6
3	*5180.00	105.7 PK			4.00 V	165	101.2	4.5
4	*5180.00	98.4 AV			4.00 V	165	93.9	4.5
5	#10360.00	46.7 PK	68.2	-21.5	1.63 V	174	33.3	13.4
6	15540.00	46.5 PK	74.0	-27.5	1.39 V	255	32.2	14.3
7	15540.00	35.0 AV	54.0	-19.0	1.39 V	255	20.7	14.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.3 PK			2.05 H	132	106.0	4.3
2	*5200.00	102.5 AV			2.05 H	132	98.2	4.3
3	#10400.00	47.4 PK	68.2	-20.8	1.93 H	69	33.9	13.5
4	15600.00	46.9 PK	74.0	-27.1	1.71 H	146	32.5	14.4
5	15600.00	35.4 AV	54.0	-18.6	1.71 H	146	21.0	14.4

**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	*5200.00	107.8 PK			3.95 V	149	103.5	4.3
2	*5200.00	100.2 AV			3.95 V	149	95.9	4.3
3	#10400.00	47.0 PK	68.2	-21.2	1.67 V	192	33.5	13.5
4	15600.00	47.4 PK	74.0	-26.6	1.45 V	258	33.0	14.4
5	15600.00	35.9 AV	54.0	-18.1	1.45 V	258	21.5	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	105.6 PK			2.12 H	247	101.2	4.4
2	*5240.00	98.3 AV			2.12 H	247	93.9	4.4
3	5350.00	50.2 PK	74.0	-23.8	2.12 H	247	45.9	4.3
4	5350.00	40.0 AV	54.0	-14.0	2.12 H	247	35.7	4.3
5	#10480.00	47.9 PK	68.2	-20.3	1.95 H	62	34.3	13.6
6	15720.00	46.7 PK	74.0	-27.3	1.72 H	149	32.4	14.3
7	15720.00	35.4 AV	54.0	-18.6	1.72 H	149	21.1	14.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.5 PK			3.87 V	177	101.1	4.4
2	*5240.00	98.1 AV			3.87 V	177	93.7	4.4
3	5350.00	50.0 PK	74.0	-24.0	3.87 V	177	45.7	4.3
4	5350.00	39.8 AV	54.0	-14.2	3.87 V	177	35.5	4.3
5	#10480.00	46.9 PK	68.2	-21.3	1.67 V	178	33.3	13.6
6	15720.00	47.8 PK	74.0	-26.2	1.38 V	249	33.5	14.3
7	15720.00	35.9 AV	54.0	-18.1	1.38 V	249	21.6	14.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.3 PK	74.0	-21.7	2.12 H	246	47.7	4.6
2	5150.00	42.2 AV	54.0	-11.8	2.12 H	246	37.6	4.6
3	*5260.00	107.6 PK			2.12 H	246	103.3	4.3
4	*5260.00	100.2 AV			2.12 H	246	95.9	4.3
5	#10520.00	47.5 PK	68.2	-20.7	1.95 H	52	33.8	13.7
6	15780.00	46.5 PK	74.0	-27.5	1.68 H	131	32.4	14.1
7	15780.00	35.1 AV	54.0	-18.9	1.68 H	131	21.0	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.8 PK	74.0	-22.2	3.91 V	175	47.2	4.6
2	5150.00	41.8 AV	54.0	-12.2	3.91 V	175	37.2	4.6
3	*5260.00	104.4 PK			3.91 V	175	100.1	4.3
4	*5260.00	97.5 AV			3.91 V	175	93.2	4.3
5	#10520.00	47.8 PK	68.2	-20.4	1.64 V	185	34.1	13.7
6	15780.00	47.8 PK	74.0	-26.2	1.40 V	258	33.7	14.1
7	15780.00	36.0 AV	54.0	-18.0	1.40 V	258	21.9	14.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	107.3 PK			2.08 H	251	103.0	4.3
2	*5300.00	100.0 AV			2.08 H	251	95.7	4.3
3	10600.00	48.4 PK	74.0	-25.6	1.98 H	41	34.8	13.6
4	10600.00	36.3 AV	54.0	-17.7	1.98 H	41	22.7	13.6
5	15900.00	46.2 PK	74.0	-27.8	1.70 H	132	32.2	14.0
6	15900.00	34.9 AV	54.0	-19.1	1.70 H	132	20.9	14.0

**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	*5300.00	104.4 PK			3.91 V	189	100.1	4.3
2	*5300.00	97.4 AV			3.91 V	189	93.1	4.3
3	10600.00	47.0 PK	74.0	-27.0	1.59 V	180	33.4	13.6
4	10600.00	35.3 AV	54.0	-18.7	1.59 V	180	21.7	13.6
5	15900.00	47.0 PK	74.0	-27.0	1.41 V	239	33.0	14.0
6	15900.00	35.2 AV	54.0	-18.8	1.41 V	239	21.2	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	105.6 PK			2.06 H	246	101.3	4.3
2	*5320.00	98.6 AV			2.06 H	246	94.3	4.3
3	5350.00	66.0 PK	74.0	-8.0	2.06 H	246	61.7	4.3
4	5350.00	52.4 AV	54.0	-1.6	2.06 H	246	48.1	4.3
5	10640.00	47.5 PK	74.0	-26.5	1.89 H	50	33.8	13.7
6	10640.00	35.7 AV	54.0	-18.3	1.89 H	50	22.0	13.7
7	15960.00	47.2 PK	74.0	-26.8	1.71 H	141	33.1	14.1
8	15960.00	35.6 AV	54.0	-18.4	1.71 H	141	21.5	14.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	106.3 PK			3.72 V	167	102.0	4.3
2	*5320.00	98.6 AV			3.72 V	167	94.3	4.3
3	5350.00	63.5 PK	74.0	-10.5	3.72 V	167	59.2	4.3
4	5350.00	51.6 AV	54.0	-2.4	3.72 V	167	47.3	4.3
5	10640.00	47.2 PK	74.0	-26.8	1.61 V	168	33.5	13.7
6	10640.00	35.3 AV	54.0	-18.7	1.61 V	168	21.6	13.7
7	15960.00	46.7 PK	74.0	-27.3	1.37 V	249	32.6	14.1
8	15960.00	35.2 AV	54.0	-18.8	1.37 V	249	21.1	14.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	62.5 PK	74.0	-11.5	2.08 H	246	58.1	4.4
2	5460.00	48.8 AV	54.0	-5.2	2.08 H	246	44.4	4.4
3	#5470.00	65.4 PK	68.2	-2.8	2.08 H	246	60.9	4.5
4	*5500.00	104.6 PK			2.08 H	246	100.0	4.6
5	*5500.00	98.1 AV			2.08 H	246	93.5	4.6
6	11000.00	47.5 PK	74.0	-26.5	1.90 H	70	33.3	14.2
7	11000.00	35.8 AV	54.0	-18.2	1.90 H	70	21.6	14.2
8	#16500.00	46.7 PK	68.2	-21.5	1.68 H	150	30.8	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.3 PK	74.0	-15.7	3.99 V	205	53.9	4.4
2	5460.00	45.4 AV	54.0	-8.6	3.99 V	205	41.0	4.4
3	#5470.00	60.9 PK	68.2	-7.3	3.99 V	205	56.4	4.5
4	*5500.00	102.3 PK			3.99 V	205	97.7	4.6
5	*5500.00	94.8 AV			3.99 V	205	90.2	4.6
6	11000.00	47.6 PK	74.0	-26.4	1.61 V	195	33.4	14.2
7	11000.00	35.8 AV	54.0	-18.2	1.61 V	195	21.6	14.2
8	#16500.00	47.1 PK	68.2	-21.1	1.39 V	250	31.2	15.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	106.1 PK			1.93 H	247	101.6	4.5
2	*5580.00	98.1 AV			1.93 H	247	93.6	4.5
3	11160.00	47.1 PK	74.0	-26.9	1.87 H	43	33.0	14.1
4	11160.00	35.5 AV	54.0	-18.5	1.87 H	43	21.4	14.1
5	#16740.00	46.7 PK	68.2	-21.5	1.70 H	133	30.0	16.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	102.2 PK			3.93 V	201	97.7	4.5
2	*5580.00	94.5 AV			3.93 V	201	90.0	4.5
3	11160.00	47.7 PK	74.0	-26.3	1.68 V	183	33.6	14.1
4	11160.00	35.9 AV	54.0	-18.1	1.68 V	183	21.8	14.1
5	#16740.00	47.0 PK	68.2	-21.2	1.40 V	261	30.3	16.7

**Remarks:**

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



<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	105.3 PK			2.10 H	248	100.8	4.5
2	*5700.00	98.3 AV			2.10 H	248	93.8	4.5
3	#5725.00	66.9 PK	68.2	-1.3	2.10 H	248	62.3	4.6
4	11400.00	47.5 PK	74.0	-26.5	1.88 H	70	33.0	14.5
5	11400.00	35.6 AV	54.0	-18.4	1.88 H	70	21.1	14.5
6	#17100.00	47.2 PK	68.2	-21.0	1.60 H	140	29.5	17.7

**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	*5700.00	103.1 PK			3.77 V	153	98.6	4.5
2	*5700.00	95.2 AV			3.77 V	153	90.7	4.5
3	#5725.00	63.8 PK	68.2	-4.4	3.77 V	153	59.2	4.6
4	11400.00	46.7 PK	74.0	-27.3	1.67 V	188	32.2	14.5
5	11400.00	34.9 AV	54.0	-19.1	1.67 V	188	20.4	14.5
6	#17100.00	47.4 PK	68.2	-20.8	1.40 V	252	29.7	17.7

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	49.6 PK	74.0	-24.4	1.99 H	247	45.2	4.4
2	5460.00	39.9 AV	54.0	-14.1	1.99 H	247	35.5	4.4
3	#5470.00	50.5 PK	68.2	-17.7	1.99 H	247	46.0	4.5
4	*5720.00	105.4 PK			1.99 H	247	100.8	4.6
5	*5720.00	98.6 AV			1.99 H	247	94.0	4.6
6	#5850.00	50.8 PK	68.2	-17.4	1.99 H	247	45.9	4.9
7	11440.00	47.5 PK	74.0	-26.5	1.91 H	56	33.0	14.5
8	11440.00	35.7 AV	54.0	-18.3	1.91 H	56	21.2	14.5
9	#17160.00	46.7 PK	68.2	-21.5	1.64 H	151	28.9	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	49.3 PK	74.0	-24.7	3.98 V	194	44.9	4.4
2	5460.00	39.4 AV	54.0	-14.6	3.98 V	194	35.0	4.4
3	#5470.00	50.2 PK	68.2	-18.0	3.98 V	194	45.7	4.5
4	*5720.00	103.6 PK			3.98 V	194	99.0	4.6
5	*5720.00	95.8 AV			3.98 V	194	91.2	4.6
6	#5850.00	50.4 PK	68.2	-17.8	3.98 V	194	45.5	4.9
7	11440.00	47.5 PK	74.0	-26.5	1.59 V	195	33.0	14.5
8	11440.00	35.8 AV	54.0	-18.2	1.59 V	195	21.3	14.5
9	#17160.00	47.6 PK	68.2	-20.6	1.33 V	264	29.8	17.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.34	53.4 PK	68.2	-14.8	1.99 H	119	48.9	4.5
2	*5745.00	109.2 PK			1.99 H	119	104.3	4.9
3	*5745.00	101.8 AV			1.99 H	119	96.9	4.9
4	#5999.44	51.9 PK	68.2	-16.3	1.99 H	119	46.7	5.2
5	11490.00	47.9 PK	74.0	-26.1	1.87 H	39	33.4	14.5
6	11490.00	36.1 AV	54.0	-17.9	1.87 H	39	21.6	14.5
7	#17235.00	46.2 PK	68.2	-22.0	1.66 H	151	28.3	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5560.45	52.0 PK	68.2	-16.2	2.57 V	225	47.5	4.5
2	*5745.00	104.2 PK			2.57 V	225	99.3	4.9
3	*5745.00	97.4 AV			2.57 V	225	92.5	4.9
4	#6008.90	51.9 PK	68.2	-16.3	2.57 V	225	46.7	5.2
5	11490.00	46.8 PK	74.0	-27.2	1.59 V	186	32.3	14.5
6	11490.00	35.1 AV	54.0	-18.9	1.59 V	186	20.6	14.5
7	#17235.00	47.5 PK	68.2	-20.7	1.36 V	257	29.6	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.01	51.9 PK	68.2	-16.3	2.04 H	118	47.4	4.5
2	*5785.00	109.7 PK			2.04 H	118	104.7	5.0
3	*5785.00	102.1 AV			2.04 H	118	97.1	5.0
4	#6003.29	51.7 PK	68.2	-16.5	2.04 H	118	46.5	5.2
5	11570.00	47.9 PK	74.0	-26.1	1.88 H	40	33.4	14.5
6	11570.00	36.1 AV	54.0	-17.9	1.88 H	40	21.6	14.5
7	#17355.00	46.8 PK	68.2	-21.4	1.70 H	126	28.6	18.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.94	51.7 PK	68.2	-16.5	2.50 V	224	47.2	4.5
2	*5785.00	104.3 PK			2.50 V	224	99.3	5.0
3	*5785.00	96.8 AV			2.50 V	224	91.8	5.0
4	#5978.02	52.3 PK	68.2	-15.9	2.50 V	224	47.1	5.2
5	11570.00	46.8 PK	74.0	-27.2	1.61 V	184	32.3	14.5
6	11570.00	35.2 AV	54.0	-18.8	1.61 V	184	20.7	14.5
7	#17355.00	46.9 PK	68.2	-21.3	1.39 V	243	28.7	18.2

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5589.90	53.1 PK	68.2	-15.1	1.93 H	131	48.6	4.5
2	*5825.00	109.1 PK			1.93 H	131	104.2	4.9
3	*5825.00	101.8 AV			1.93 H	131	96.9	4.9
4	#5991.27	52.7 PK	68.2	-15.5	1.93 H	131	47.5	5.2
5	11650.00	47.9 PK	74.0	-26.1	1.98 H	57	33.6	14.3
6	11650.00	36.0 AV	54.0	-18.0	1.98 H	57	21.7	14.3
7	#17475.00	46.2 PK	68.2	-22.0	1.68 H	131	27.4	18.8

**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	#5564.11	51.5 PK	68.2	-16.7	2.55 V	220	47.0	4.5
2	*5825.00	104.2 PK			2.55 V	220	99.3	4.9
3	*5825.00	96.4 AV			2.55 V	220	91.5	4.9
4	#5978.49	52.7 PK	68.2	-15.5	2.55 V	220	47.5	5.2
5	11650.00	47.6 PK	74.0	-26.4	1.60 V	173	33.3	14.3
6	11650.00	35.6 AV	54.0	-18.4	1.60 V	173	21.3	14.3
7	#17475.00	47.1 PK	68.2	-21.1	1.34 V	262	28.3	18.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 38 : 5190 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	67.5 PK	74.0	-6.5	2.10 H	245	62.9	4.6
2	5150.00	52.7 AV	54.0	-1.3	2.10 H	245	48.1	4.6
3	*5190.00	100.6 PK			2.10 H	245	96.2	4.4
4	*5190.00	93.0 AV			2.10 H	245	88.6	4.4
5	#10380.00	47.6 PK	68.2	-20.6	1.92 H	61	34.2	13.4
6	15570.00	46.8 PK	74.0	-27.2	1.66 H	147	32.4	14.4
7	15570.00	35.3 AV	54.0	-18.7	1.66 H	147	20.9	14.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.39 V	306	61.2	4.6
2	5150.00	51.5 AV	54.0	-2.5	1.39 V	306	46.9	4.6
3	*5190.00	99.8 PK			1.39 V	306	95.4	4.4
4	*5190.00	91.9 AV			1.39 V	306	87.5	4.4
5	#10380.00	47.2 PK	68.2	-21.0	1.63 V	178	33.8	13.4
6	15570.00	47.5 PK	74.0	-26.5	1.40 V	260	33.1	14.4
7	15570.00	35.9 AV	54.0	-18.1	1.40 V	260	21.5	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 46 : 5230 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	104.0 PK			2.08 H	243	99.6	4.4
2	*5230.00	95.5 AV			2.08 H	243	91.1	4.4
3	5350.00	54.5 PK	74.0	-19.5	2.08 H	243	50.2	4.3
4	5350.00	44.2 AV	54.0	-9.8	2.08 H	243	39.9	4.3
5	#10460.00	47.3 PK	68.2	-20.9	1.90 H	53	33.7	13.6
6	15690.00	46.7 PK	74.0	-27.3	1.70 H	125	32.3	14.4
7	15690.00	35.4 AV	54.0	-18.6	1.70 H	125	21.0	14.4

**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	*5230.00	100.8 PK			1.42 V	291	96.4	4.4
2	*5230.00	92.8 AV			1.42 V	291	88.4	4.4
3	5350.00	43.8 PK	74.0	-30.2	1.42 V	291	39.5	4.3
4	5350.00	43.7 AV	54.0	-10.3	1.42 V	291	39.4	4.3
5	#10460.00	47.5 PK	68.2	-20.7	1.66 V	180	33.9	13.6
6	15690.00	46.4 PK	74.0	-27.6	1.42 V	252	32.0	14.4
7	15690.00	35.0 AV	54.0	-19.0	1.42 V	252	20.6	14.4

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 54 : 5270 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.5 PK	74.0	-22.5	2.06 H	249	46.9	4.6
2	5150.00	41.2 AV	54.0	-12.8	2.06 H	249	36.6	4.6
3	*5270.00	101.2 PK			2.06 H	249	96.9	4.3
4	*5270.00	93.6 AV			2.06 H	249	89.3	4.3
5	#10540.00	47.7 PK	68.2	-20.5	1.97 H	45	34.0	13.7
6	15810.00	47.0 PK	74.0	-27.0	1.66 H	133	32.9	14.1
7	15810.00	35.6 AV	54.0	-18.4	1.66 H	133	21.5	14.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.4 PK	74.0	-22.6	1.43 V	317	46.8	4.6
2	5150.00	41.0 AV	54.0	-13.0	1.43 V	317	36.4	4.6
3	*5270.00	100.0 PK			1.43 V	317	95.7	4.3
4	*5270.00	92.1 AV			1.43 V	317	87.8	4.3
5	#10540.00	47.2 PK	68.2	-21.0	1.65 V	192	33.5	13.7
6	15810.00	47.0 PK	74.0	-27.0	1.34 V	239	32.9	14.1
7	15810.00	35.1 AV	54.0	-18.9	1.34 V	239	21.0	14.1

**Remarks:**

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



<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 62 : 5310 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	100.9 PK			2.09 H	239	96.6	4.3
2	*5310.00	93.1 AV			2.09 H	239	88.8	4.3
3	5350.00	64.2 PK	74.0	-9.8	2.09 H	239	59.9	4.3
4	5350.00	52.4 AV	54.0	-1.6	2.09 H	239	48.1	4.3
5	10620.00	47.2 PK	74.0	-26.8	1.89 H	64	33.5	13.7
6	10620.00	35.6 AV	54.0	-18.4	1.89 H	64	21.9	13.7
7	15930.00	46.5 PK	74.0	-27.5	1.70 H	125	32.5	14.0
8	15930.00	35.2 AV	54.0	-18.8	1.70 H	125	21.2	14.0
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	*5310.00	98.8 PK			1.36 V	304	94.5	4.3
2	*5310.00	90.9 AV			1.36 V	304	86.6	4.3
3	5350.00	60.1 PK	74.0	-13.9	1.36 V	304	55.8	4.3
4	5350.00	49.1 AV	54.0	-4.9	1.36 V	304	44.8	4.3
5	10620.00	47.1 PK	74.0	-26.9	1.59 V	173	33.4	13.7
6	10620.00	35.0 AV	54.0	-19.0	1.59 V	173	21.3	13.7
7	15930.00	46.5 PK	74.0	-27.5	1.45 V	243	32.5	14.0
8	15930.00	35.2 AV	54.0	-18.8	1.45 V	243	21.2	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 102 : 5510 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	2.17 H	123	56.4	4.4
2	5460.00	44.5 AV	54.0	-9.5	2.17 H	123	40.1	4.4
3	#5469.83	65.1 PK	68.2	-3.1	2.17 H	123	60.6	4.5
4	*5510.00	99.9 PK			2.17 H	123	95.3	4.6
5	*5510.00	92.5 AV			2.17 H	123	87.9	4.6
6	11020.00	48.0 PK	74.0	-26.0	1.91 H	63	33.9	14.1
7	11020.00	36.3 AV	54.0	-17.7	1.91 H	63	22.2	14.1
8	#16530.00	46.7 PK	68.2	-21.5	1.71 H	122	30.8	15.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.8 PK	74.0	-10.2	1.37 V	296	59.4	4.4
2	5460.00	51.8 AV	54.0	-2.2	1.37 V	296	47.4	4.4
3	#5470.00	67.7 PK	68.2	-0.5	1.37 V	296	63.2	4.5
4	*5510.00	97.0 PK			1.37 V	296	92.4	4.6
5	*5510.00	89.3 AV			1.37 V	296	84.7	4.6
6	11020.00	47.6 PK	74.0	-26.4	1.64 V	195	33.5	14.1
7	11020.00	35.6 AV	54.0	-18.4	1.64 V	195	21.5	14.1
8	#16530.00	47.3 PK	68.2	-20.9	1.42 V	253	31.4	15.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 110 : 5550 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	103.1 PK			2.09 H	124	98.6	4.5
2	*5550.00	94.8 AV			2.09 H	124	90.3	4.5
3	11100.00	48.3 PK	74.0	-25.7	1.91 H	50	34.4	13.9
4	11100.00	36.3 AV	54.0	-17.7	1.91 H	50	22.4	13.9
5	#16650.00	46.4 PK	68.2	-21.8	1.69 H	124	30.1	16.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	99.7 PK			1.42 V	315	95.2	4.5
2	*5550.00	92.6 AV			1.42 V	315	88.1	4.5
3	11100.00	47.1 PK	74.0	-26.9	1.68 V	175	33.2	13.9
4	11100.00	35.4 AV	54.0	-18.6	1.68 V	175	21.5	13.9
5	#16650.00	47.3 PK	68.2	-20.9	1.39 V	257	31.0	16.3

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 134 : 5670 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	103.7 PK			2.09 H	130	99.2	4.5
2	*5670.00	95.8 AV			2.09 H	130	91.3	4.5
3	#5725.00	61.9 PK	68.2	-6.3	2.09 H	130	57.3	4.6
4	11340.00	47.8 PK	74.0	-26.2	1.92 H	48	33.4	14.4
5	11340.00	35.8 AV	54.0	-18.2	1.92 H	48	21.4	14.4
6	#17010.00	47.0 PK	68.2	-21.2	1.62 H	145	29.3	17.7

**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	*5670.00	99.9 PK			1.35 V	302	95.4	4.5
2	*5670.00	92.8 AV			1.35 V	302	88.3	4.5
3	#5725.00	58.3 PK	68.2	-9.9	1.35 V	302	53.7	4.6
4	11340.00	46.9 PK	74.0	-27.1	1.68 V	196	32.5	14.4
5	11340.00	35.2 AV	54.0	-18.8	1.68 V	196	20.8	14.4
6	#17010.00	46.8 PK	68.2	-21.4	1.42 V	255	29.1	17.7

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 142 : 5710 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	50.9 PK	74.0	-23.1	2.16 H	128	46.5	4.4
2	5460.00	39.8 AV	54.0	-14.2	2.16 H	128	35.4	4.4
3	#5470.00	51.6 PK	68.2	-16.6	2.16 H	128	47.1	4.5
4	*5710.00	105.4 PK			2.16 H	128	100.8	4.6
5	*5710.00	96.9 AV			2.16 H	128	92.3	4.6
6	#5850.00	51.9 PK	68.2	-16.3	2.16 H	128	47.0	4.9
7	11420.00	47.5 PK	74.0	-26.5	1.87 H	58	33.0	14.5
8	11420.00	35.4 AV	54.0	-18.6	1.87 H	58	20.9	14.5
9	#17130.00	47.1 PK	68.2	-21.1	1.77 H	154	29.4	17.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	1.38 V	317	46.0	4.4
2	5460.00	39.4 AV	54.0	-14.6	1.38 V	317	35.0	4.4
3	#5470.00	50.8 PK	68.2	-17.4	1.38 V	317	46.3	4.5
4	*5710.00	99.6 PK			1.38 V	317	95.0	4.6
5	*5710.00	92.4 AV			1.38 V	317	87.8	4.6
6	#5850.00	51.3 PK	68.2	-16.9	1.38 V	317	46.4	4.9
7	11420.00	46.9 PK	74.0	-27.1	1.59 V	183	32.4	14.5
8	11420.00	35.2 AV	54.0	-18.8	1.59 V	183	20.7	14.5
9	#17130.00	47.4 PK	68.2	-20.8	1.37 V	241	29.7	17.7

**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.

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 151 : 5755 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.34	54.4 PK	68.2	-13.8	2.11 H	118	49.9	4.5
2	*5755.00	106.5 PK			2.11 H	118	101.6	4.9
3	*5755.00	98.0 AV			2.11 H	118	93.1	4.9
4	#5944.95	53.6 PK	68.2	-14.6	2.11 H	118	48.6	5.0
5	11510.00	47.3 PK	74.0	-26.7	1.97 H	68	32.8	14.5
6	11510.00	35.6 AV	54.0	-18.4	1.97 H	68	21.1	14.5
7	#17265.00	46.6 PK	68.2	-21.6	1.68 H	144	28.7	17.9

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.52	53.2 PK	68.2	-15.0	2.50 V	197	48.7	4.5
2	*5755.00	101.8 PK			2.50 V	197	96.9	4.9
3	*5755.00	96.9 AV			2.50 V	197	92.0	4.9
4	#5942.39	52.0 PK	68.2	-16.2	2.50 V	197	47.0	5.0
5	11510.00	47.2 PK	74.0	-26.8	1.65 V	171	32.7	14.5
6	11510.00	35.4 AV	54.0	-18.6	1.65 V	171	20.9	14.5
7	#17265.00	47.3 PK	68.2	-20.9	1.44 V	245	29.4	17.9

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT40)	<b>Channel</b>	CH 159 : 5795 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.38	51.9 PK	68.2	-16.3	2.11 H	118	47.4	4.5
2	*5795.00	107.0 PK			2.07 H	129	102.0	5.0
3	*5795.00	98.5 AV			2.07 H	129	93.5	5.0
4	#6007.52	52.6 PK	68.2	-15.6	2.11 H	118	47.4	5.2
5	11590.00	47.9 PK	74.0	-26.1	1.98 H	61	33.5	14.4
6	11590.00	36.3 AV	54.0	-17.7	1.98 H	61	21.9	14.4
7	#17385.00	46.1 PK	68.2	-22.1	1.72 H	123	27.8	18.3

**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	#5646.86	51.7 PK	68.2	-16.5	2.46 V	212	47.2	4.5
2	*5795.00	101.4 PK			2.46 V	212	96.4	5.0
3	*5795.00	96.4 AV			2.46 V	212	91.4	5.0
4	#5950.85	51.5 PK	68.2	-16.7	2.46 V	212	46.4	5.1
5	11590.00	47.8 PK	74.0	-26.2	1.67 V	181	33.4	14.4
6	11590.00	35.7 AV	54.0	-18.3	1.67 V	181	21.3	14.4
7	#17385.00	47.1 PK	68.2	-21.1	1.42 V	253	28.8	18.3

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 42 : 5210 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	2.07 H	107	59.5	4.6
2	5150.00	53.5 AV	54.0	-0.5	2.07 H	107	48.9	4.6
3	*5210.00	97.5 PK			2.07 H	107	93.1	4.4
4	*5210.00	90.3 AV			2.07 H	107	85.9	4.4
5	5350.00	54.6 PK	74.0	-19.4	2.07 H	107	50.3	4.3
6	5350.00	44.1 AV	54.0	-9.9	2.07 H	107	39.8	4.3
7	#10420.00	47.8 PK	68.2	-20.4	1.96 H	50	34.3	13.5
8	15630.00	46.3 PK	74.0	-27.7	1.64 H	146	31.8	14.5
9	15630.00	35.1 AV	54.0	-18.9	1.64 H	146	20.6	14.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.28 V	275	53.6	4.6
2	5150.00	49.7 AV	54.0	-4.3	1.28 V	275	45.1	4.6
3	*5210.00	95.6 PK			1.28 V	275	91.2	4.4
4	*5210.00	86.7 AV			1.28 V	275	82.3	4.4
5	5350.00	51.2 PK	74.0	-22.8	1.28 V	275	46.9	4.3
6	5350.00	41.6 AV	54.0	-12.4	1.28 V	275	37.3	4.3
7	#10420.00	47.3 PK	68.2	-20.9	1.69 V	182	33.8	13.5
8	15630.00	47.0 PK	74.0	-27.0	1.41 V	254	32.5	14.5
9	15630.00	35.2 AV	54.0	-18.8	1.41 V	254	20.7	14.5

**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.



<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	54.6 PK	74.0	-19.4	2.13 H	105	50.0	4.6
2	5150.00	45.3 AV	54.0	-8.7	2.13 H	105	40.7	4.6
3	*5290.00	99.4 PK			2.13 H	105	95.1	4.3
4	*5290.00	91.7 AV			2.13 H	105	87.4	4.3
5	5350.00	63.1 PK	74.0	-10.9	2.13 H	105	58.8	4.3
6	5350.00	52.7 AV	54.0	-1.3	2.13 H	105	48.4	4.3
7	#10580.00	47.0 PK	68.2	-21.2	1.92 H	70	33.4	13.6
8	15870.00	46.6 PK	74.0	-27.4	1.66 H	145	32.6	14.0
9	15870.00	35.1 AV	54.0	-18.9	1.66 H	145	21.1	14.0

**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	51.9 PK	74.0	-22.1	1.21 V	305	47.3	4.6
2	5150.00	43.0 AV	54.0	-11.0	1.21 V	305	38.4	4.6
3	*5290.00	93.9 PK			1.21 V	305	89.6	4.3
4	*5290.00	86.6 AV			1.21 V	305	82.3	4.3
5	5350.00	57.2 PK	74.0	-16.8	1.21 V	305	52.9	4.3
6	5350.00	47.2 AV	54.0	-6.8	1.21 V	305	42.9	4.3
7	#10580.00	47.1 PK	68.2	-21.1	1.68 V	192	33.5	13.6
8	15870.00	46.9 PK	74.0	-27.1	1.39 V	267	32.9	14.0
9	15870.00	35.1 AV	54.0	-18.9	1.39 V	267	21.1	14.0

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 106 : 5530 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	61.7 PK	74.0	-12.3	1.95 H	112	57.3	4.4
2	5460.00	52.7 AV	54.0	-1.3	1.95 H	112	48.3	4.4
3	#5467.35	65.9 PK	68.2	-2.3	1.95 H	112	61.4	4.5
4	*5530.00	97.4 PK			1.95 H	112	92.8	4.6
5	*5530.00	89.8 AV			1.95 H	112	85.2	4.6
6	#5725.00	51.8 PK	68.2	-16.4	1.95 H	112	47.2	4.6
7	11060.00	47.5 PK	74.0	-26.5	1.94 H	40	33.5	14.0
8	11060.00	35.5 AV	54.0	-18.5	1.94 H	40	21.5	14.0
9	#16590.00	46.6 PK	68.2	-21.6	1.72 H	135	30.5	16.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.9 PK	74.0	-17.1	1.27 V	302	52.5	4.4
2	5460.00	47.2 AV	54.0	-6.8	1.27 V	302	42.8	4.4
3	#5470.00	60.2 PK	68.2	-8.0	1.27 V	302	55.7	4.5
4	*5530.00	90.5 PK			1.27 V	302	85.9	4.6
5	*5530.00	83.5 AV			1.27 V	302	78.9	4.6
6	#5725.00	51.8 PK	68.2	-16.4	1.27 V	302	47.2	4.6
7	11060.00	47.6 PK	74.0	-26.4	1.66 V	199	33.6	14.0
8	11060.00	35.7 AV	54.0	-18.3	1.66 V	199	21.7	14.0
9	#16590.00	46.3 PK	68.2	-21.9	1.36 V	250	30.2	16.1

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 122 : 5610 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (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	99.9 PK			2.10 H	121	95.4	4.5
2	*5610.00	92.1 AV			2.10 H	121	87.6	4.5
3	#5725.00	60.2 PK	68.2	-8.0	2.10 H	121	55.6	4.6
4	11220.00	47.7 PK	74.0	-26.3	1.90 H	45	33.3	14.4
5	11220.00	36.1 AV	54.0	-17.9	1.90 H	45	21.7	14.4
6	#16830.00	46.6 PK	68.2	-21.6	1.68 H	152	29.4	17.2

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	94.5 PK			1.38 V	317	90.0	4.5
2	*5610.00	87.3 AV			1.38 V	317	82.8	4.5
3	#5725.00	57.8 PK	68.2	-10.4	1.38 V	317	53.2	4.6
4	11220.00	46.9 PK	74.0	-27.1	1.60 V	184	32.5	14.4
5	11220.00	35.1 AV	54.0	-18.9	1.60 V	184	20.7	14.4
6	#16830.00	47.2 PK	68.2	-21.0	1.36 V	246	30.0	17.2

**Remarks:**

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

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 138 : 5690 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.1 PK	74.0	-21.9	2.05 H	113	47.7	4.4
2	5460.00	42.6 AV	54.0	-11.4	2.05 H	113	38.2	4.4
3	#5470.00	52.9 PK	68.2	-15.3	2.05 H	113	48.4	4.5
4	*5690.00	100.5 PK			2.05 H	113	96.0	4.5
5	*5690.00	92.4 AV			2.05 H	113	87.9	4.5
6	#5850.00	55.6 PK	68.2	-12.6	2.05 H	113	50.7	4.9
7	11380.00	47.3 PK	74.0	-26.7	1.89 H	44	32.8	14.5
8	11380.00	35.8 AV	54.0	-18.2	1.89 H	44	21.3	14.5
9	#17070.00	47.0 PK	68.2	-21.2	1.64 H	127	29.2	17.8

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.9 PK	74.0	-23.1	1.42 V	307	46.5	4.4
2	5460.00	41.7 AV	54.0	-12.3	1.42 V	307	37.3	4.4
3	#5470.00	51.6 PK	68.2	-16.6	1.42 V	307	47.1	4.5
4	*5690.00	94.7 PK			1.42 V	307	90.2	4.5
5	*5690.00	87.5 AV			1.42 V	307	83.0	4.5
6	#5850.00	55.1 PK	68.2	-13.1	1.42 V	307	50.2	4.9
7	11380.00	47.6 PK	74.0	-26.4	1.60 V	167	33.1	14.5
8	11380.00	35.9 AV	54.0	-18.1	1.60 V	167	21.4	14.5
9	#17070.00	46.9 PK	68.2	-21.3	1.33 V	262	29.1	17.8

**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.

<b>RF Mode</b>	TX 802.11ac (VHT80)	<b>Channel</b>	CH 155 : 5775 MHz
<b>Frequency Range</b>	1GHz ~ 40GHz	<b>Detector Function</b>	Peak (PK) Average (AV)

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.87	65.7 PK	68.2	-2.5	2.02 H	117	61.2	4.5
2	*5775.00	105.2 PK			2.02 H	117	100.2	5.0
3	*5775.00	97.5 AV			2.02 H	117	92.5	5.0
4	#5927.19	56.8 PK	68.2	-11.4	2.02 H	117	51.8	5.0
5	11550.00	47.8 PK	74.0	-26.2	1.88 H	60	33.3	14.5
6	11550.00	35.9 AV	54.0	-18.1	1.88 H	60	21.4	14.5
7	#17325.00	46.6 PK	68.2	-21.6	1.60 H	132	28.5	18.1

**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	#5637.17	62.1 PK	68.2	-6.1	2.64 V	193	57.6	4.5
2	*5775.00	100.1 PK			2.64 V	193	95.1	5.0
3	*5775.00	91.5 AV			2.64 V	193	86.5	5.0
4	#5925.43	54.5 PK	68.2	-13.7	2.64 V	193	49.5	5.0
5	11550.00	47.8 PK	74.0	-26.2	1.61 V	180	33.3	14.5
6	11550.00	35.8 AV	54.0	-18.2	1.61 V	180	21.3	14.5
7	#17325.00	47.4 PK	68.2	-20.8	1.35 V	265	29.3	18.1

**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.

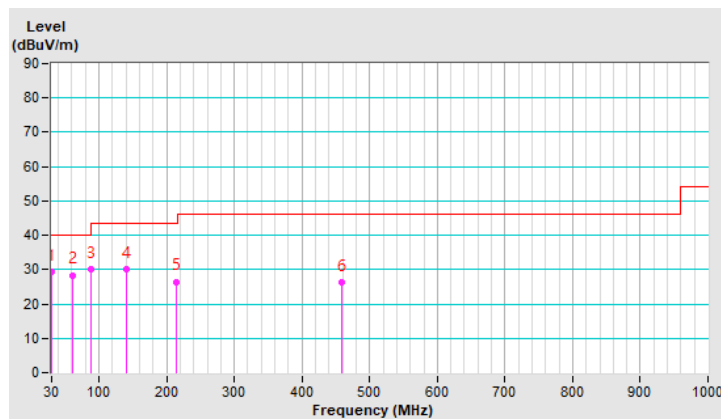
### Below 1GHz Data:

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	9kHz ~ 1GHz	<b>Detector Function</b>	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.68	29.3 QP	40.0	-10.7	1.50 H	83	38.8	-9.5
2	60.97	28.4 QP	40.0	-11.6	1.50 H	63	37.4	-9.0
3	88.56	30.1 QP	43.5	-13.4	2.50 H	187	43.9	-13.8
4	139.70	30.2 QP	43.5	-13.3	2.00 H	183	38.3	-8.1
5	214.40	26.5 QP	43.5	-17.0	2.00 H	139	37.1	-10.6
6	459.29	26.2 QP	46.0	-19.8	1.50 H	47	28.1	-1.9

### Remarks:

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



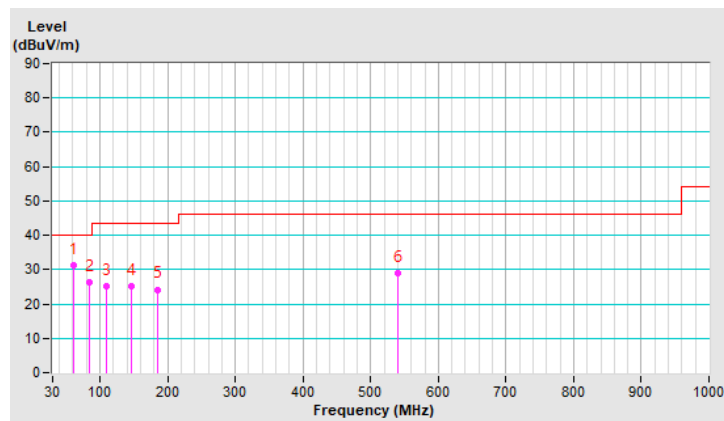
<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	9kHz ~ 1GHz	<b>Detector Function</b>	Quasi-Peak (QP)

**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	61.02	31.2 QP	40.0	-8.8	1.00 V	156	40.2	-9.0
2	84.77	26.3 QP	40.0	-13.7	1.50 V	78	40.0	-13.7
3	110.06	25.2 QP	43.5	-18.3	1.00 V	155	36.1	-10.9
4	146.74	25.3 QP	43.5	-18.2	1.50 V	187	32.9	-7.6
5	185.85	24.2 QP	43.5	-19.3	1.00 V	153	34.0	-9.8
6	539.78	29.1 QP	46.0	-16.9	1.00 V	167	29.5	-0.4

**Remarks:**

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



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

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

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

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

### 4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 26, 2021	Mar. 25, 2022
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Cable	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

**Note:**

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: May 29, 2021



#### 4.2.3 Test Procedure

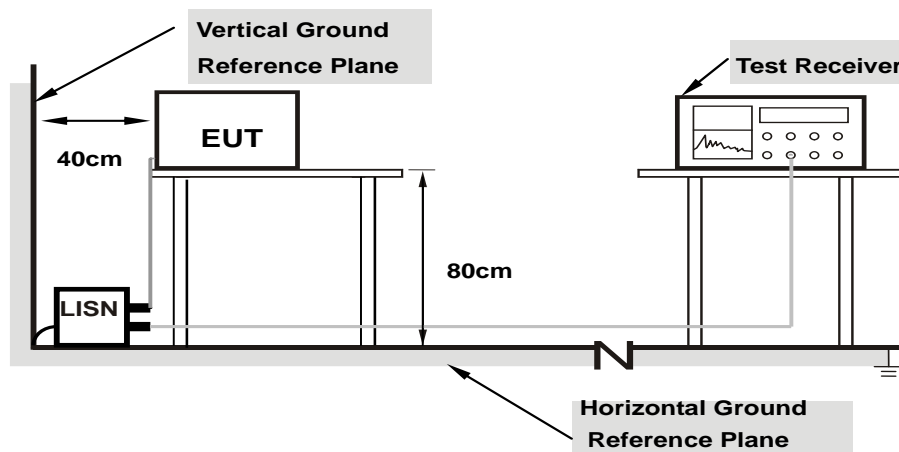
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



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

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

#### 4.2.6 EUT Operating Condition

Same as 4.1.6.

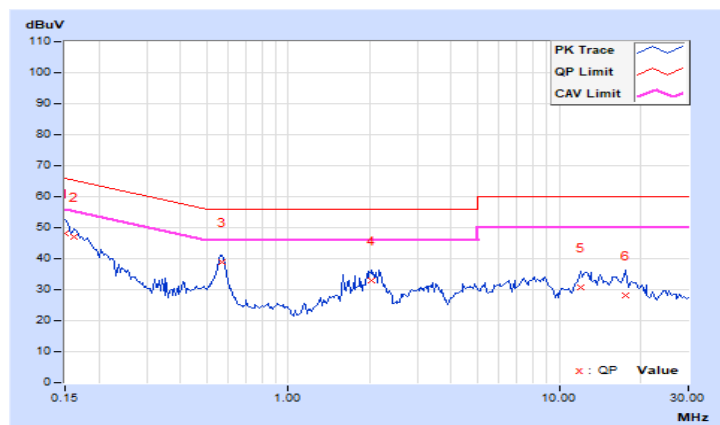
## 4.2.7 Test Results

<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	150kHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.95	38.24	22.81	48.19	32.76	66.00	56.00	-17.81	-23.24
2	0.16172	9.95	37.16	18.50	47.11	28.45	65.38	55.38	-18.27	-26.93
3	0.56797	10.00	29.05	21.57	39.05	31.57	56.00	46.00	-16.95	-14.43
4	2.03516	10.07	22.72	9.39	32.79	19.46	56.00	46.00	-23.21	-26.54
5	12.05859	10.65	19.98	14.19	30.63	24.84	60.00	50.00	-29.37	-25.16
6	17.48438	10.97	17.08	12.43	28.05	23.40	60.00	50.00	-31.95	-26.60

## 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

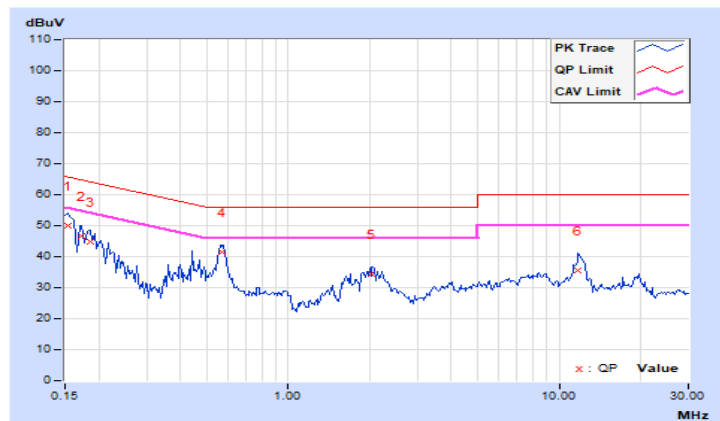


<b>RF Mode</b>	TX 802.11ac (VHT20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	150kHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.92	40.17	24.21	50.09	34.13	65.79	55.79	-15.70	-21.66
2	0.17344	9.93	36.89	21.30	46.82	31.23	64.79	54.79	-17.97	-23.56
3	0.18516	9.94	34.99	18.06	44.93	28.00	64.25	54.25	-19.32	-26.25
<b>4</b>	<b>0.57188</b>	<b>9.97</b>	<b>31.41</b>	<b>23.41</b>	<b>41.38</b>	<b>33.38</b>	<b>56.00</b>	<b>46.00</b>	<b>-14.62</b>	<b>-12.62</b>
5	2.03125	10.04	24.23	14.44	34.27	24.48	56.00	46.00	-21.73	-21.52
6	11.78516	10.49	25.07	19.62	35.56	30.11	60.00	50.00	-24.44	-19.89

**Remarks:**

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



### 4.3 Transmit Power Measurement

#### 4.3.1 Limits of Transmit Power Measurement

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

\*B is the 26 dB emission bandwidth in megahertz

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  $\geq 40$  MHz for any  $N_{ANT}$ ;

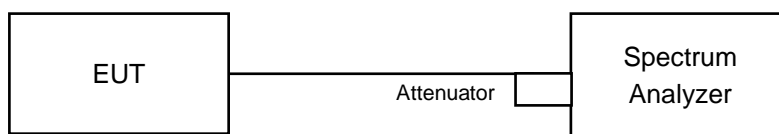
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

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

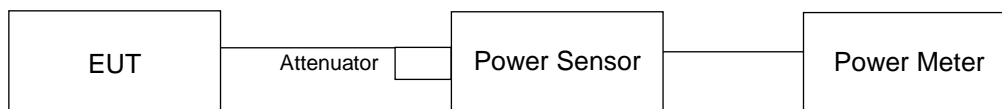
#### 4.3.2 Test Setup

##### FOR POWER OUTPUT MEASUREMENT

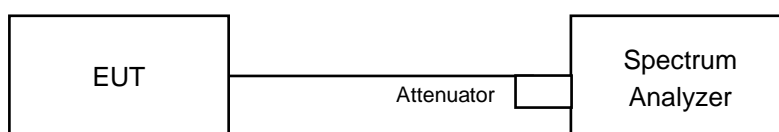
For channel straddling 5725MHz:



For other channels:



##### FOR 26dB OCCUPIED BANDWIDTH



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### FOR POWER OUTPUT MEASUREMENT

##### For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

For 802.11a, 802.11ac (VHT20), 802.11ac (VHT40)

##### Method SA-1

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

For 802.11ac (VHT80)

##### Method SA-2

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

##### For other channels:

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

##### FOR 26dB OCCUPIED BANDWIDTH

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

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Condition

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

## 4.3.7 Test Results

**POWER OUTPUT**
**802.11a**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	14.82	30.339	14.82	23.73	Pass
40	5200	19.22	83.56	19.22	23.73	Pass
48	5240	14.75	29.854	14.75	23.73	Pass
52	5260	15.98	39.628	15.98	23.73	Pass
60	5300	15.22	33.266	15.22	23.73	Pass
64	5320	14.80	30.2	14.80	23.73	Pass
100	5500	13.05	20.184	13.05	23.73	Pass
116	5580	13.57	22.751	13.57	23.73	Pass
140	5700	11.94	15.631	11.94	23.73	Pass
*144 (U-NII-2C Band)	5720	12.96	19.77	12.96	23.33	Pass
*144 (U-NII-3 Band)	5720	3.52	2.249	3.52	29.73	Pass
149	5745	17.94	62.23	17.94	29.73	Pass
157	5785	17.92	61.944	17.92	29.73	Pass
165	5825	17.62	57.81	17.62	29.73	Pass

Note: \* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	23.3	24.67 > 24
60	5300	23.47	24.7 > 24
64	5320	22.34	24.49 > 24
100	5500	23.25	24.66 > 24
116	5580	27.93	25.46 > 24
140	5700	21.8	24.38 > 24
144 (U-NII-2C Band)	5720	18.22	23.6 < 24

**802.11ac (VHT20)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.71	13.15	35.479	15.50	23.73	Pass
40	5200	12.42	13.50	39.845	16.00	23.73	Pass
48	5240	13.08	13.98	45.327	16.56	23.73	Pass
52	5260	14.24	15.31	60.509	17.82	23.73	Pass
60	5300	14.17	15.18	59.083	17.71	23.73	Pass
64	5320	12.51	13.27	39.056	15.92	23.73	Pass
100	5500	10.77	10.91	24.271	13.85	23.73	Pass
116	5580	12.67	13.34	40.07	16.03	23.73	Pass
140	5700	9.75	10.65	21.055	13.23	23.73	Pass
*144 (U-NII-2C Band)	5720	11.49	12.51	31.917	15.04	22.72	Pass
*144 (U-NII-3 Band)	5720	3.66	4.66	5.247	7.20	29.73	Pass
149	5745	11.33	12.73	32.333	15.10	29.73	Pass
157	5785	11.56	12.91	33.865	15.30	29.73	Pass
165	5825	11.86	13.07	35.623	15.52	29.73	Pass

Note: \* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	24.97	24.97 > 24
60	5300	23.94	24.79 > 24
64	5320	21.63	24.35 > 24
100	5500	21.63	24.35 > 24
116	5580	27.4	25.37 > 24
140	5700	21.66	24.35 > 24
144 (U-NII-2C Band)	5720	15.84	22.99 < 24

**802.11ac (VHT40)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	10.33	11.61	25.277	14.03	23.73	Pass
46	5230	12.57	13.92	42.732	16.31	23.73	Pass
54	5270	12.07	13.22	37.096	15.69	23.73	Pass
62	5310	10.49	11.53	25.418	14.05	23.73	Pass
102	5510	8.03	8.56	13.531	11.31	23.73	Pass
110	5550	10.74	11.56	26.18	14.18	23.73	Pass
134	5670	10.37	11.52	25.08	13.99	23.73	Pass
*142 (U-NII-2C Band)	5710	9.85	10.14	19.988	13.01	23.73	Pass
*142 (U-NII-3 Band)	5710	-3.06	-2.75	1.0252	0.11	29.73	Pass
151	5755	10.65	11.79	26.715	14.27	29.73	Pass
159	5795	10.97	12.04	28.498	14.55	29.73	Pass

Note: \* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.17	27.14 > 24
62	5310	41.19	27.14 > 24
102	5510	41.1	27.13 > 24
110	5550	41.48	27.17 > 24
134	5670	46.37	27.66 > 24
142 (U-NII-2C Band)	5710	35.64	26.51 > 24



**802.11ac (VHT80)**

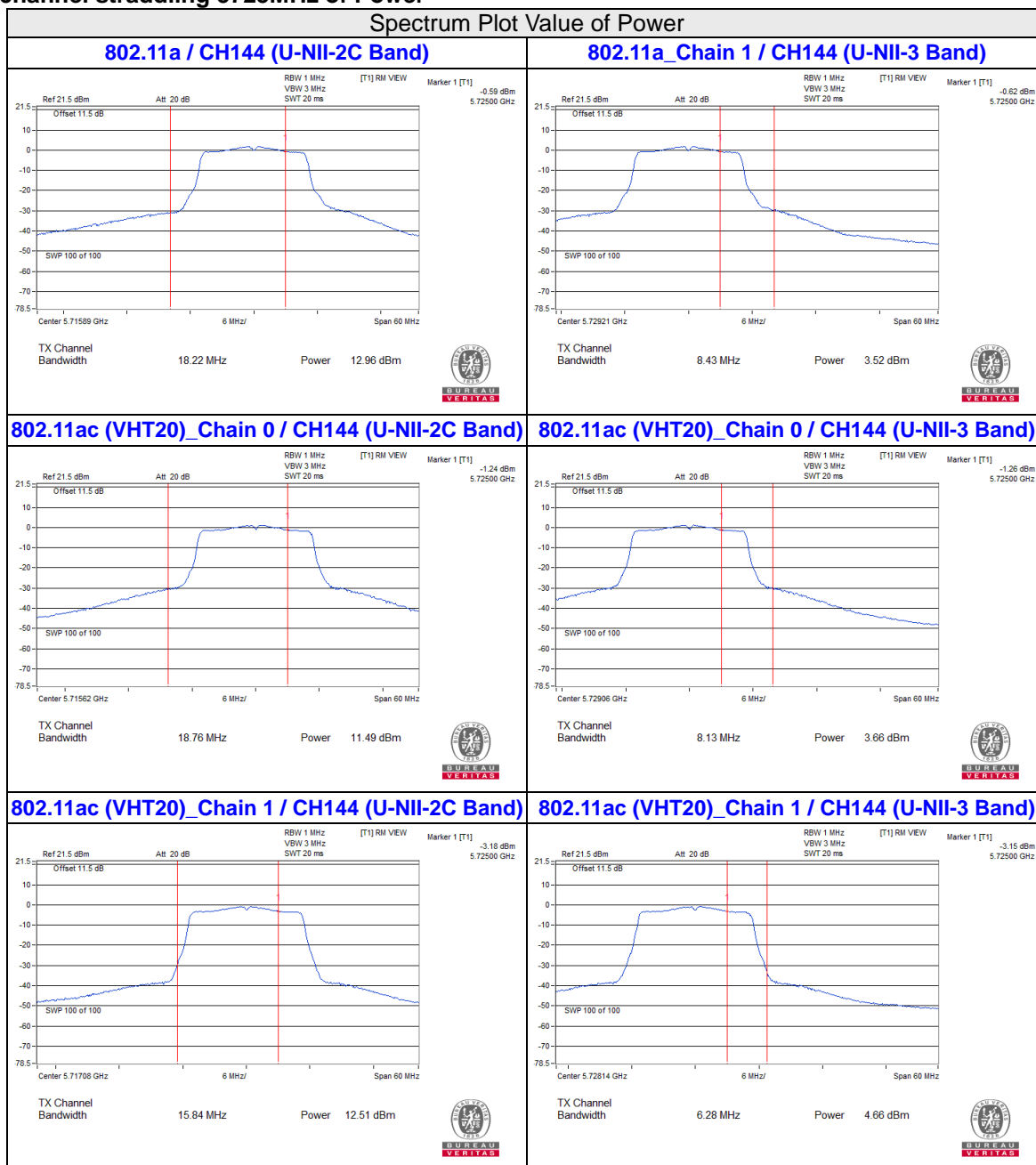
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.05	9.03	13.068	11.16	23.73	Pass
58	5290	8.86	9.78	17.197	12.35	23.73	Pass
106	5530	7.54	7.52	11.325	10.54	23.73	Pass
122	5610	9.92	10.55	21.168	13.26	23.73	Pass
*138 (U-NII-2C Band)	5690	9.09	9.56	17.892	12.53	23.73	Pass
*138 (U-NII-3 Band)	5690	-6.84	-6.31	0.4601	-3.37	29.73	Pass
155	5775	12.76	12.51	36.704	15.65	29.73	Pass

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

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

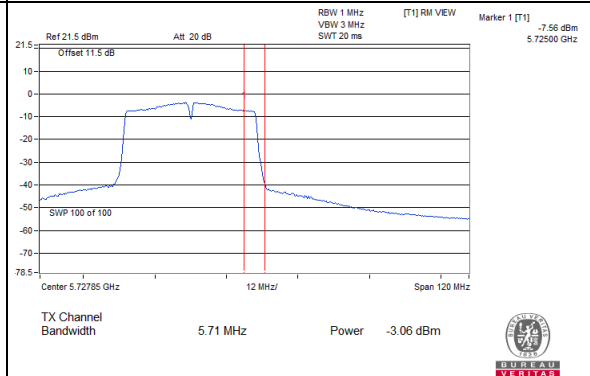
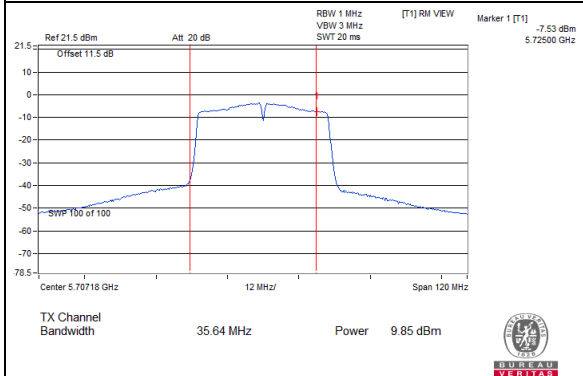
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.24	30.15 > 24
106	5530	82.4	30.15 > 24
122	5610	82.56	30.16 > 24
138 (U-NII-2C Band)	5690	76.05	29.81 > 24

For channel straddling 5725MHz of Power

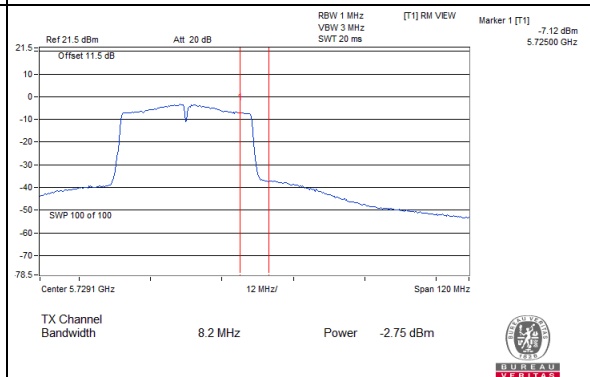
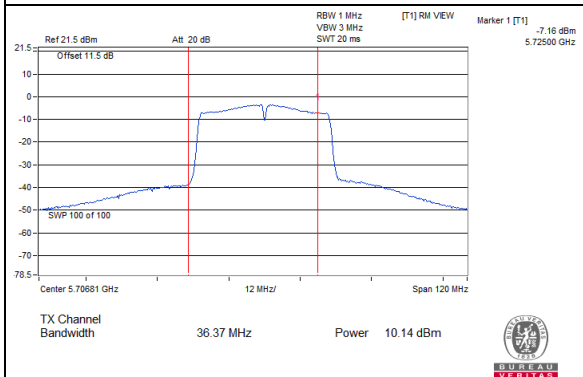


### Spectrum Plot Value of Power

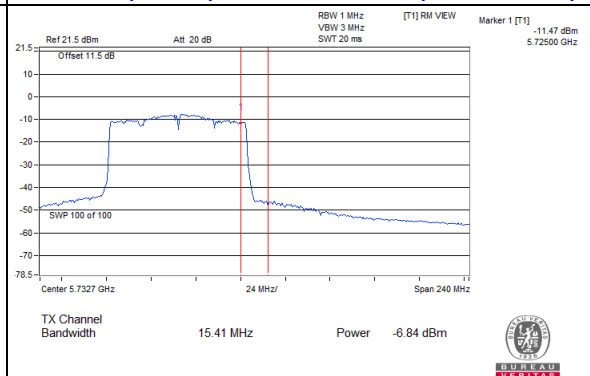
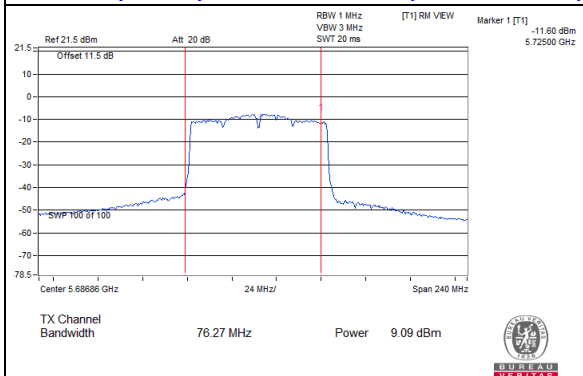
#### 802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-2C Band)      802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-3 Band)



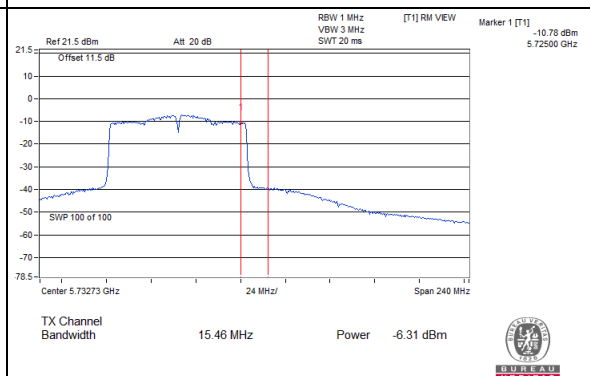
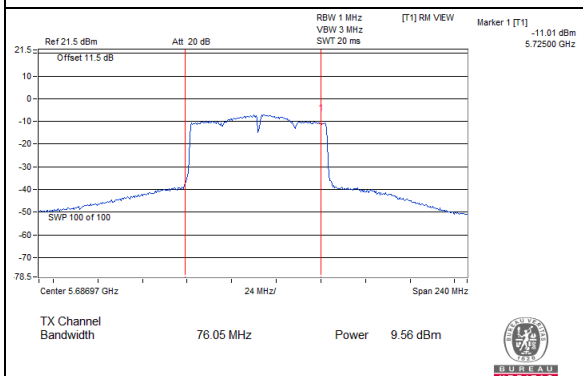
#### 802.11ac (VHT40)\_Chain 1 / CH142 (U-NII-2C Band)      802.11ac (VHT40)\_Chain 1 / CH142 (U-NII-3 Band)



#### 802.11ac (VHT80)\_Chain 0 / CH138 (U-NII-2C Band)      802.11ac (VHT80)\_Chain 0 / CH138 (U-NII-3 Band)



#### 802.11ac (VHT80)\_Chain 1 / CH138 (U-NII-2C Band)      802.11ac (VHT80)\_Chain 1 / CH138 (U-NII-3 Band)



## 26dB OCCUPIED BANDWIDTH

### 802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
36	5180	23.88
40	5200	39.33
48	5240	21.87
52	5260	23.3
60	5300	23.47
64	5320	22.34
100	5500	23.25
116	5580	27.93
140	5700	21.8
144 (U-NII-2C Band)	5720	18.22
144 (U-NII-3 Band)	5720	8.43
149	5745	46.15
157	5785	45.54
165	5825	45.44

### 802.11ac (VHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
36	5180	24.46	21.81
40	5200	27.5	21.62
48	5240	43.67	23.03
52	5260	43.16	24.97
60	5300	29.89	23.94
64	5320	25.45	21.63
100	5500	22.06	21.63
116	5580	37.64	27.4
140	5700	21.96	21.66
144 (U-NII-2C Band)	5720	18.76	15.84
144 (U-NII-3 Band)	5720	8.13	6.28
149	5745	23.31	26.52
157	5785	22.08	21.91
165	5825	24.94	23.3

**802.11ac (VHT40)**

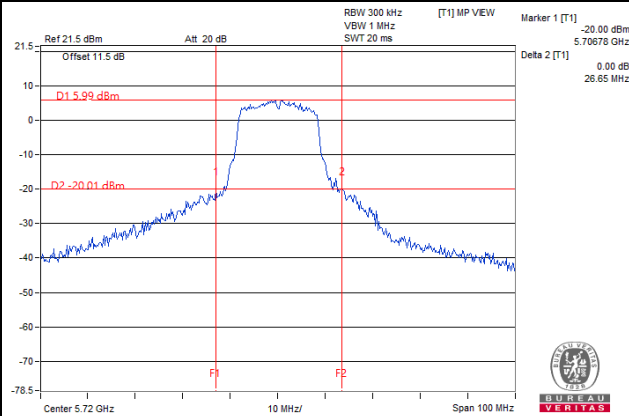
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
38	5190	42.04	40.95
46	5230	58.58	49.55
54	5270	55.44	41.17
62	5310	41.32	41.19
102	5510	41.44	41.1
110	5550	41.48	44.38
134	5670	46.37	50.02
142 (U-NII-2C Band)	5710	35.64	36.37
142 (U-NII-3 Band)	5710	5.71	8.2
151	5755	47.05	52.85
159	5795	41.32	41.13

**802.11ac (VHT80)**

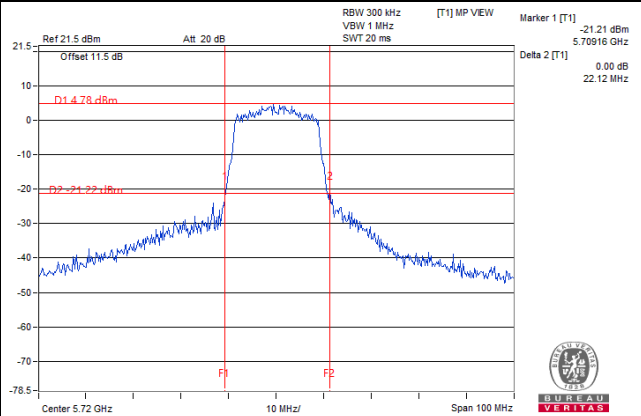
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
42	5210	82.51	82.57
58	5290	82.74	82.24
106	5530	82.4	82.78
122	5610	82.56	104.44
138 (U-NII-2C Band)	5690	76.27	76.05
138 (U-NII-3 Band)	5690	15.41	15.46
155	5775	82.97	126.64

Spectrum Plot of Worst Value

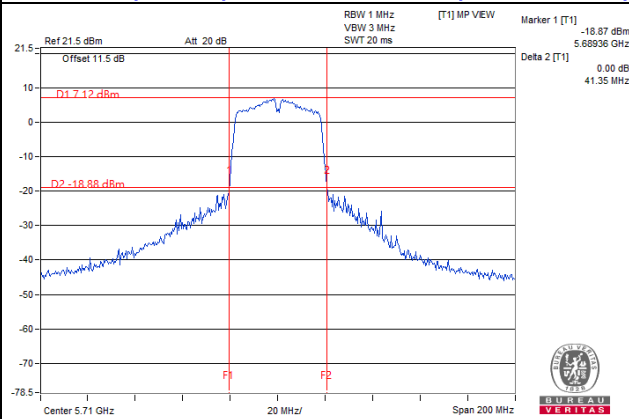
802.11a / CH144 (U-NII-3 Band)



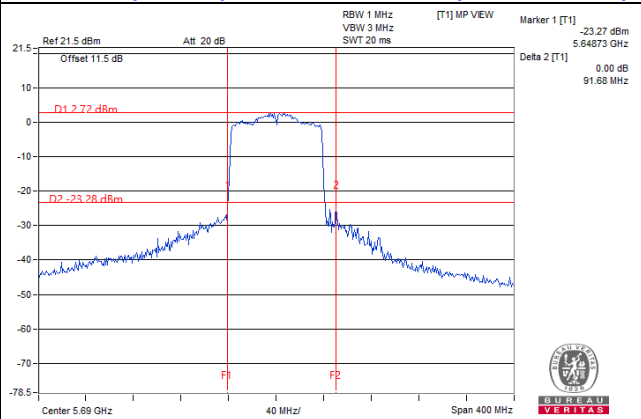
802.11ac (VHT20)\_Chain 1 / CH144 (U-NII-3 Band)



802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-3 Band)



802.11ac (VHT80)\_Chain 0 / CH138 (U-NII-3 Band)

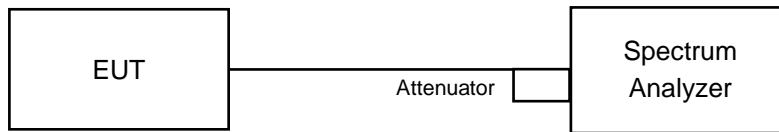


Note:

- For CH144 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)
- For CH142 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)
- For CH138 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

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

#### 4.4.4 Test Results

##### 802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.16
40	5200	20.16
48	5240	16.92
52	5260	16.92
60	5300	16.92
64	5320	16.92
100	5500	17.04
116	5580	17.04
140	5700	16.8
144 (U-NII-2C Band)	5720	13.64
144 (U-NII-3 Band)	5720	3.4
149	5745	26.52
157	5785	25.92
165	5825	25.92

##### 802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18	18
40	5200	18	17.88
48	5240	18.48	18
52	5260	19.08	18.12
60	5300	18.24	18
64	5320	18	17.88
100	5500	17.88	17.88
116	5580	18.24	18.12
140	5700	18	17.88
144 (U-NII-2C Band)	5720	14.24	14
144 (U-NII-3 Band)	5720	3.88	3.88
149	5745	18	18
157	5785	18	17.88
165	5825	18	18



**802.11ac (VHT40)**

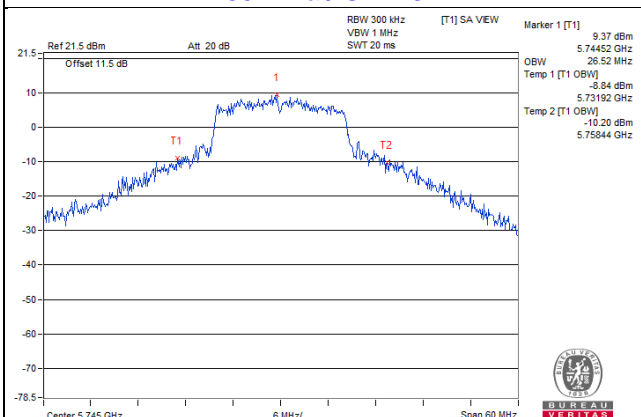
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.48	36.24
46	5230	36.72	36.24
54	5270	36.72	36.48
62	5310	36.24	36.24
102	5510	36.72	36.24
110	5550	36.48	36.48
134	5670	36.24	36.48
142 (U-NII-2C Band)	5710	33.24	33.24
142 (U-NII-3 Band)	5710	3.24	3.24
151	5755	36.24	36.48
159	5795	36.48	36.72

**802.11ac (VHT80)**

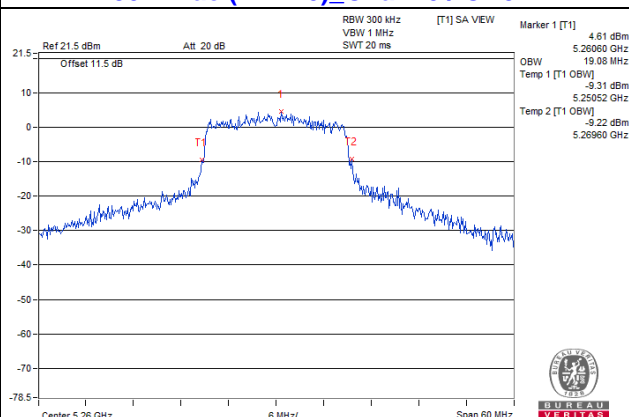
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	76.32
58	5290	76.32	75.84
106	5530	75.84	76.32
122	5610	75.84	75.84
138 (U-NII-2C Band)	5690	73.4	73.4
138 (U-NII-3 Band)	5690	2.44	2.92
155	5775	75.84	76.32

Spectrum Plot of Max. Value

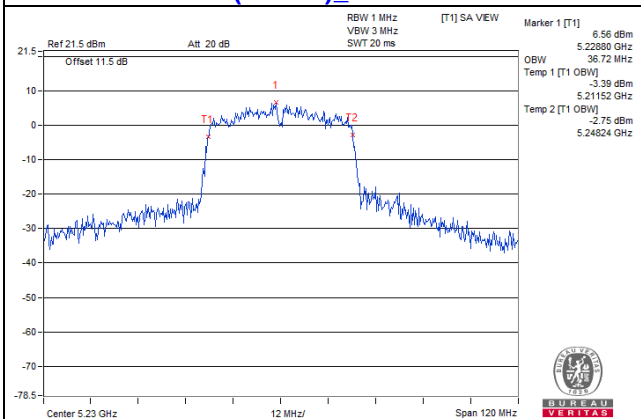
802.11a / CH149



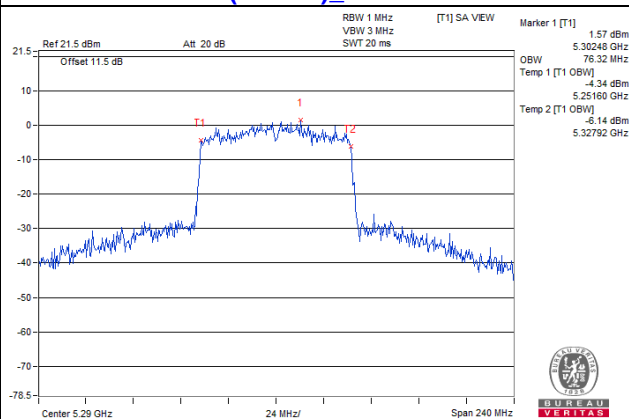
802.11ac (VHT20)\_Chain 0 / CH52



802.11ac (VHT40)\_Chain 0 / CH46

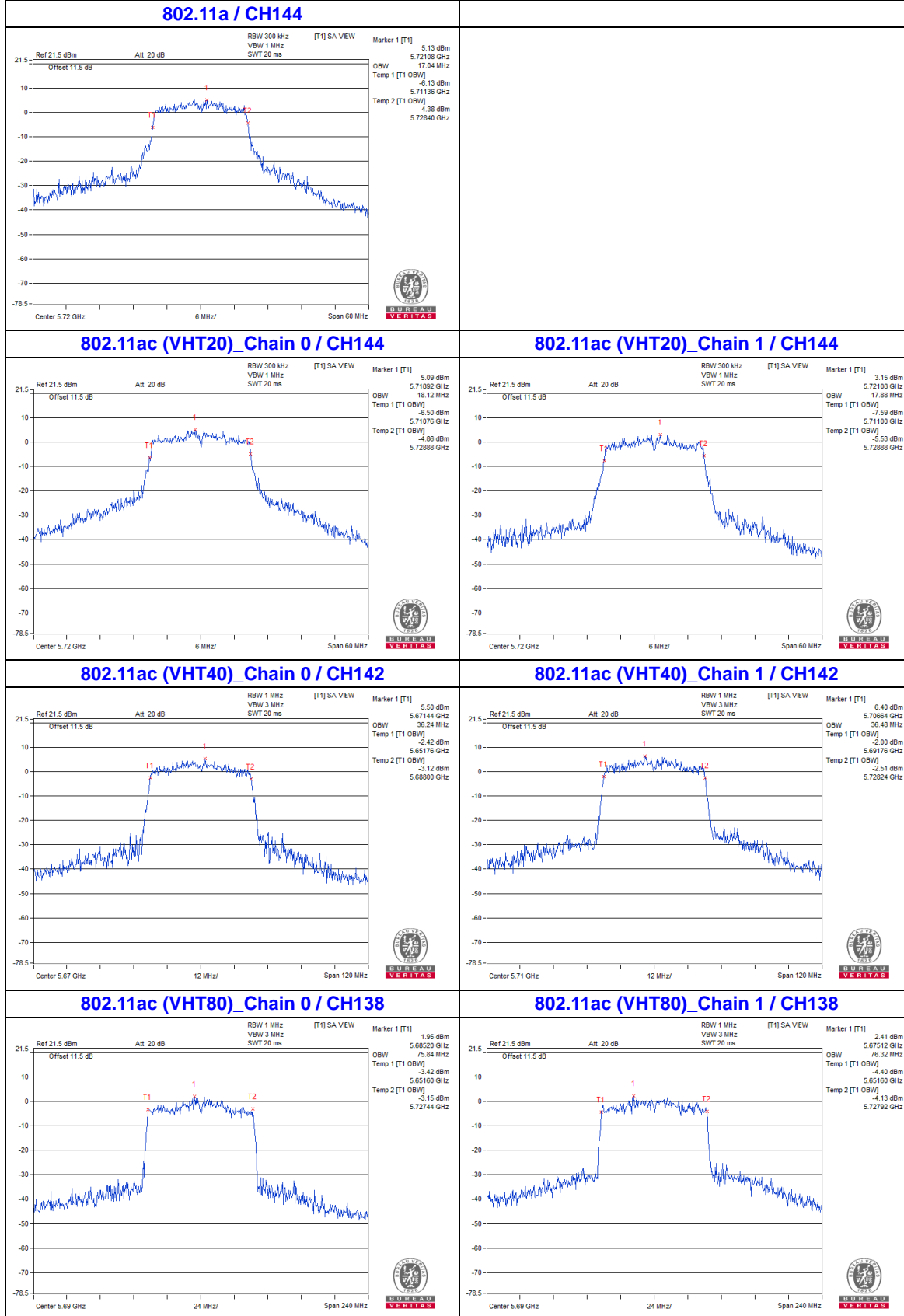


802.11ac (VHT80)\_Chain 0 / CH58



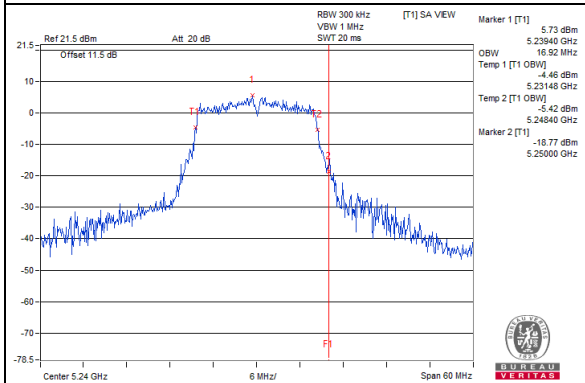
For channel straddling 5725MHz of OCP99% BW

Spectrum Plot Value of OCP99% BW

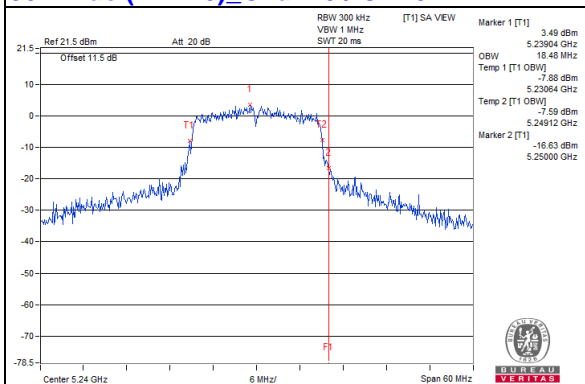


Spectrum Plot for near by DFS band  
(DFS is required, if 99% OCP straddle into U-NII-2A band)

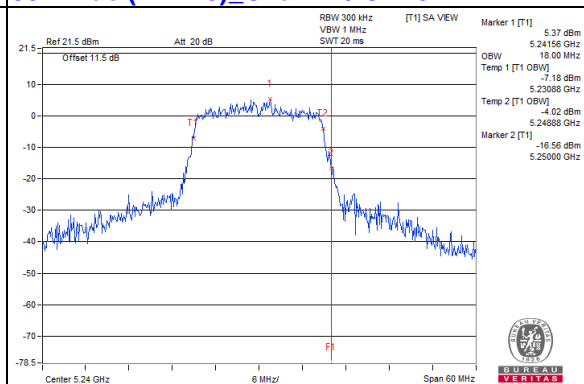
802.11a / CH48



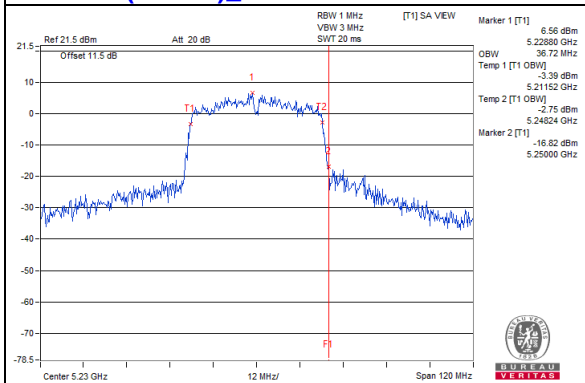
802.11ac (VHT20)\_Chain 0 / CH48



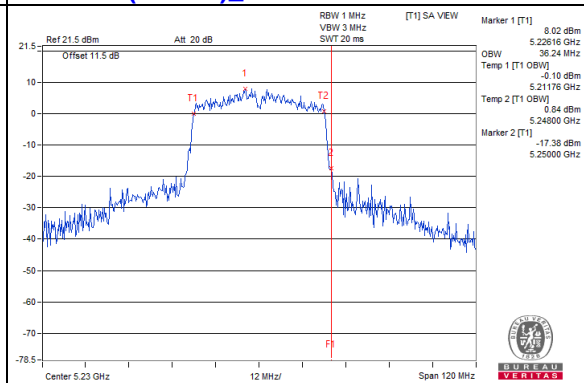
802.11ac (VHT20)\_Chain 1 / CH48



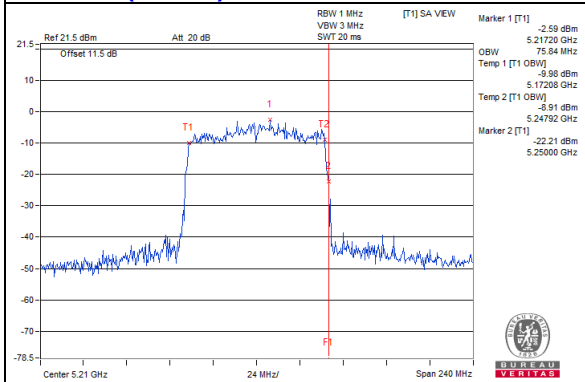
802.11ac (VHT40)\_Chain 0 / CH46



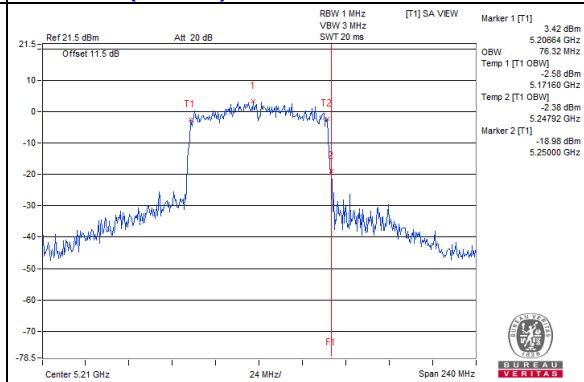
802.11ac (VHT40)\_Chain 1 / CH46



802.11ac (VHT80)\_Chain 0 / CH42

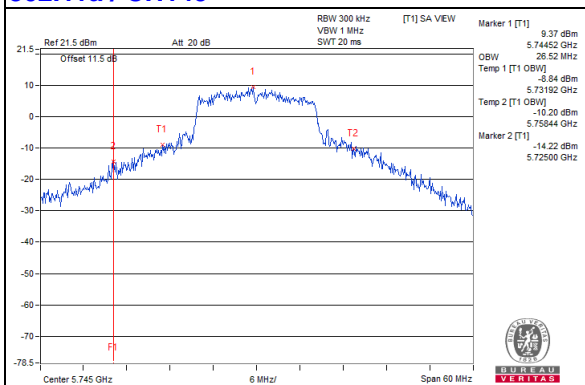


802.11ac (VHT80)\_Chain 1 / CH42

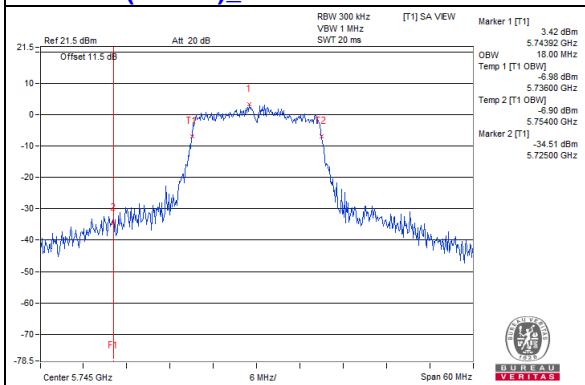


**Spectrum Plot for near by DFS band  
(DFS is required, if 99% OCP straddle into U-NII-2C band)**

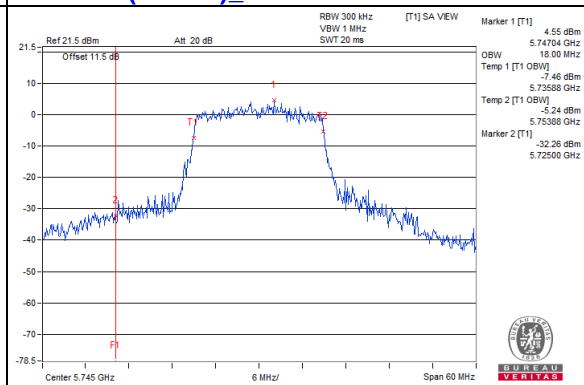
**802.11a / CH149**



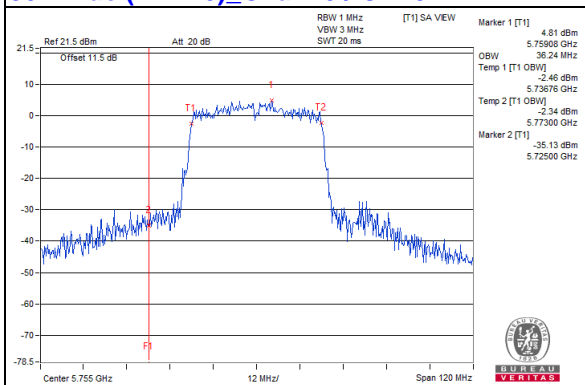
**802.11ac (VHT20)\_Chain 0 / CH149**



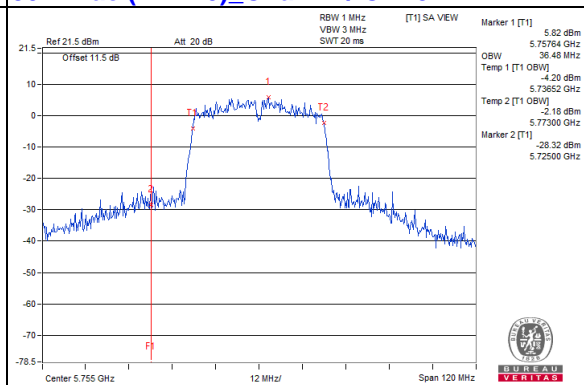
**802.11ac (VHT20)\_Chain 1 / CH149**



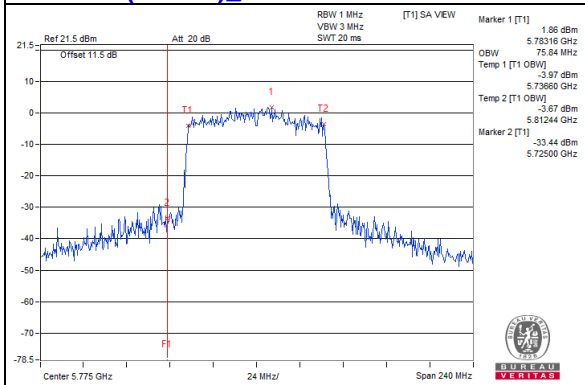
**802.11ac (VHT40)\_Chain 0 / CH151**



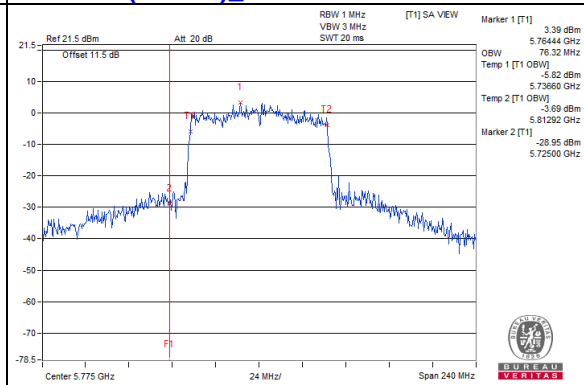
**802.11ac (VHT40)\_Chain 1 / CH151**



**802.11ac (VHT80)\_Chain 0 / CH155**



**802.11ac (VHT80)\_Chain 1 / CH155**

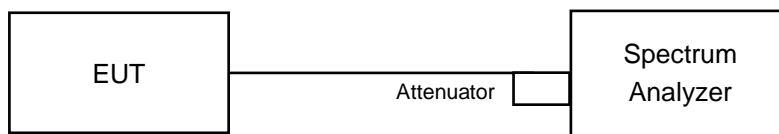


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

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

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

For 802.11a, 802.11ac (VHT20), 802.11ac (VHT40)

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

Using method SA-1

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

**For U-NII-3 band:**

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

For 802.11ac (VHT80)

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

Using method SA-2

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

**For U-NII-3 band:**

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

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Condition

Same as Item 4.3.6.

#### 4.5.7 Test Results

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

##### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
36	5180	1.94	1.94	10.73	Pass
40	5200	6.29	6.29	10.73	Pass
48	5240	1.80	1.80	10.73	Pass
52	5260	2.93	2.93	10.73	Pass
60	5300	2.94	2.94	10.73	Pass
64	5320	2.08	2.08	10.73	Pass
100	5500	1.52	1.52	10.73	Pass
116	5580	2.11	2.11	10.73	Pass
140	5700	0.12	0.12	10.73	Pass
144 (U-NII-2C Band)	5720	1.77	1.77	10.73	Pass

Note: 1. The maximum gain = 6.27dBi > 6dBi, so the power density limit shall be reduced to  $11-(6.27-6)=10.73$  dBm.

##### 802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-1.29	0.15	2.50	7.72	Pass
40	5200	-0.52	0.71	3.15	7.72	Pass
48	5240	-0.09	1.17	3.60	7.72	Pass
52	5260	0.99	2.07	4.57	7.72	Pass
60	5300	1.20	1.87	4.56	7.72	Pass
64	5320	-0.45	0.45	3.03	7.72	Pass
100	5500	-1.75	-0.93	1.69	7.72	Pass
116	5580	0.63	1.56	4.13	7.72	Pass
140	5700	-1.44	-1.20	1.69	7.72	Pass
144 (U-NII-2C Band)	5720	1.13	1.32	4.24	7.72	Pass

Note: 1. Method 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. The directional gain = 6.27dBi + 10log(2) = 9.28dBi > 6dBi, so the power density limit shall be reduced to  $11-(9.28-6)=7.72$  dBm.



### 802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-5.45	-4.27	-1.81	7.72	Pass
46	5230	-3.16	-1.86	0.55	7.72	Pass
54	5270	-4.00	-3.07	-0.50	7.72	Pass
62	5310	-5.55	-4.39	-1.92	7.72	Pass
102	5510	-6.64	-6.12	-3.36	7.72	Pass
110	5550	-4.17	-3.07	-0.57	7.72	Pass
134	5670	-4.30	-3.80	-1.03	7.72	Pass
142 (U-NII-2C Band)	5710	-3.69	-3.45	-0.56	7.72	Pass

- Note: 1. Method 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. The directional gain =  $6.27\text{dBi} + 10\log(2) = 9.28\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $11-(9.28-6)=7.72\text{dBm}$ .

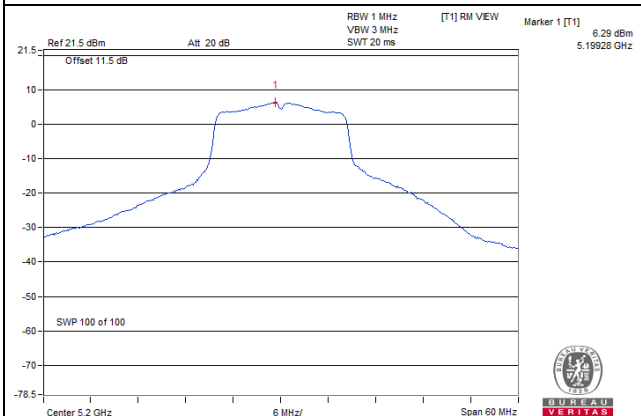
### 802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-12.32	-9.72	0.18	-7.63	7.72	Pass
58	5290	-7.73	-6.45	0.18	-3.85	7.72	Pass
106	5530	-7.78	-6.62	0.18	-3.97	7.72	Pass
122	5610	-8.18	-7.21	0.18	-4.47	7.72	Pass
138 (U-NII-2C Band)	5690	-7.80	-7.33	0.18	-4.36	7.72	Pass

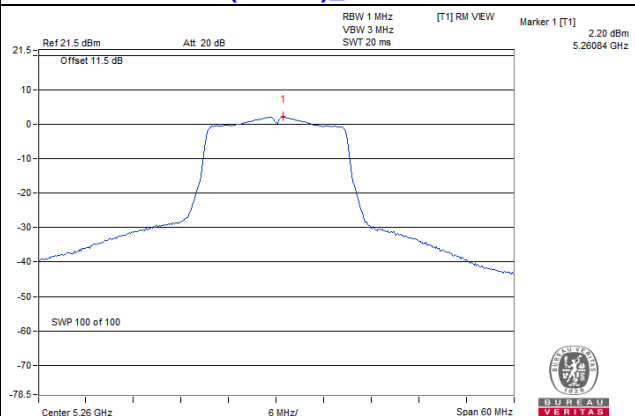
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. The directional gain =  $6.27\text{dBi} + 10\log(2) = 9.28\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $11-(9.28-6)=7.72\text{dBm}$ .
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

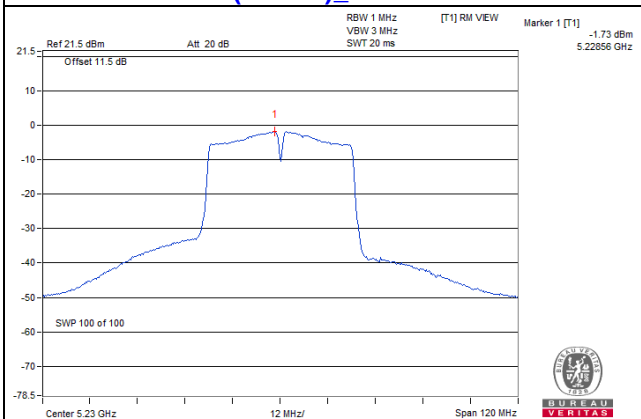
802.11a / CH40



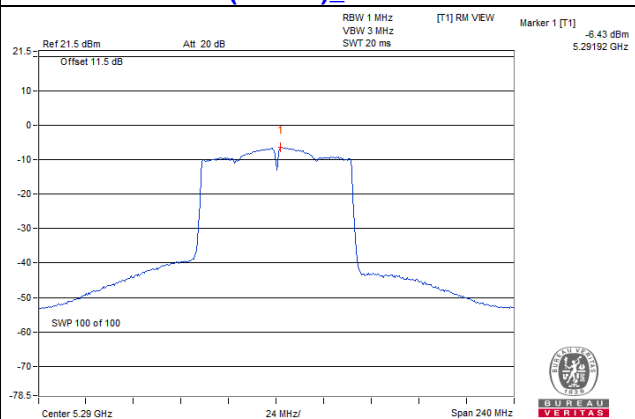
802.11ac (VHT20)\_Chain 1 / CH52



802.11ac (VHT40)\_Chain 1 / CH46



802.11ac (VHT80)\_Chain 1 / CH58



**For U-NII-3 band:**

**802.11a**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
144 (U-NII-3 Band)	5720	-9.06	-9.06	-6.84	29.73	Pass
149	5745	-2.37	-2.37	-0.15	29.73	Pass
157	5785	-2.34	-2.34	-0.12	29.73	Pass
165	5825	-2.31	-2.31	-0.09	29.73	Pass

Note: 1. The maximum gain = 6.27dBi > 6dBi, so the power density limit shall be reduced to  $30-(6.27-6)=29.73$  dBm.

**802.11ac (VHT20)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
144 (U-NII-3 Band)	5720	-9.71	-10.33	-7.00	-4.78	26.72	Pass
149	5745	-8.23	-7.59	-4.89	-2.67	26.72	Pass
157	5785	-8.23	-7.58	-4.88	-2.66	26.72	Pass
165	5825	-7.95	-7.32	-4.61	-2.39	26.72	Pass

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.  
 2. The directional gain = 6.27dBi +  $10\log(2)$  = 9.28dBi > 6dBi, so the power density limit shall be reduced to  $11-(9.28-6)=26.72$ dBm.

**802.11ac (VHT40)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
142 (U-NII-3 Band)	5710	-15.85	-15.59	-12.71	-10.49	26.72	Pass
151	5755	-12.67	-12.32	-9.48	-7.26	26.72	Pass
159	5795	-12.55	-12.53	-9.53	-7.31	26.72	Pass

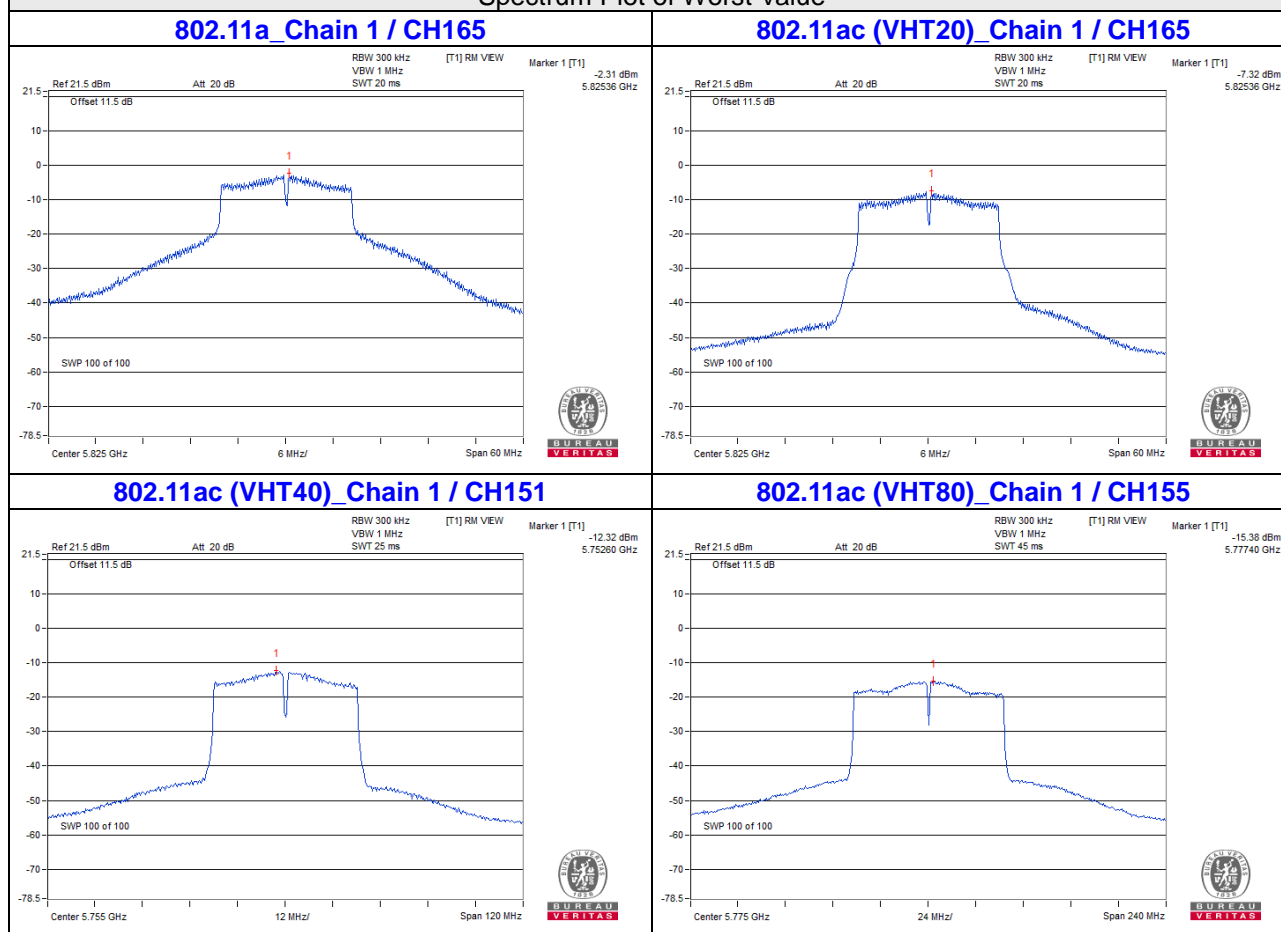
Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.  
 2. The directional gain = 6.27dBi +  $10\log(2)$  = 9.28dBi > 6dBi, so the power density limit shall be reduced to  $11-(9.28-6)=26.72$ dBm.

### 802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1					
138 (U-NII-3 Band)	5710	-20.13	-19.61	0.18	-16.67	-14.45	26.72	Pass
155	5755	-16.17	-15.38	0.18	-12.56	-10.34	26.72	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.  
 2. The directional gain =  $6.27\text{dBi} + 10\log(2) = 9.28\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $11-(9.28-6)=26.72\text{dBm}$ .  
 3. Refer to section 3.3 for duty cycle spectrum plot.

#### Spectrum Plot of Worst Value

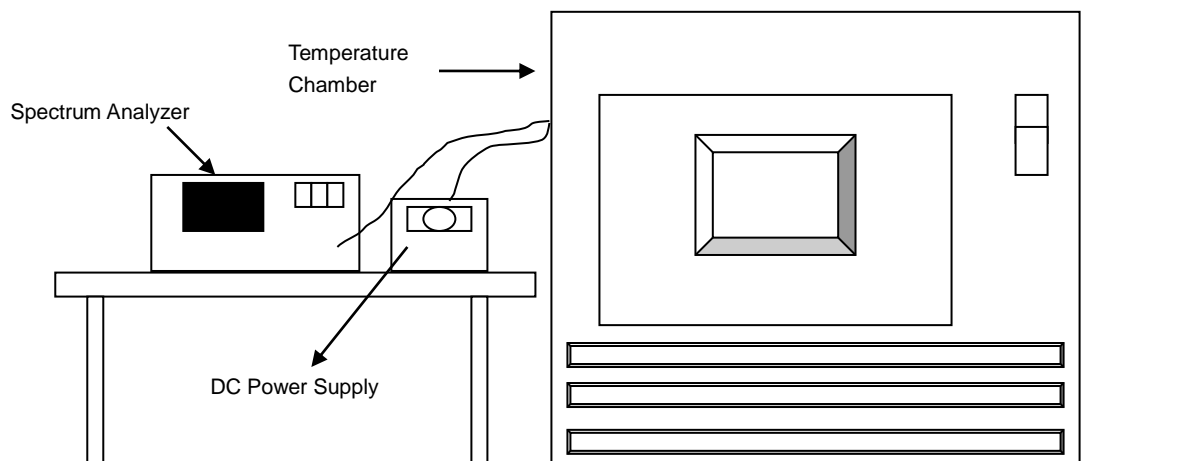


## 4.6 Frequency Stability Measurement

### 4.6.1 Limits of Frequency Stability Measurement

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

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

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

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

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

## 4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	5	5180.0002	Pass	5180.002	Pass	5179.9991	Pass	5179.9988	Pass
40	5	5179.9898	Pass	5179.9928	Pass	5179.9911	Pass	5179.9894	Pass
30	5	5179.9878	Pass	5179.9873	Pass	5179.9882	Pass	5179.9881	Pass
20	5	5180.0204	Pass	5180.0199	Pass	5180.019	Pass	5180.0203	Pass
10	5	5180.0009	Pass	5180.0016	Pass	5179.9995	Pass	5179.9986	Pass
0	5	5180.0121	Pass	5180.0101	Pass	5180.0102	Pass	5180.0123	Pass
-10	5	5179.984	Pass	5179.9855	Pass	5179.9877	Pass	5179.9876	Pass
-20	5	5180.0041	Pass	5180.0013	Pass	5180.0007	Pass	5180.0011	Pass

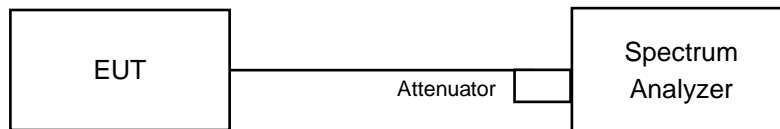
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	5.75	5180.0206	Pass	5180.02	Pass	5180.0195	Pass	5180.0198	Pass
	5	5180.0204	Pass	5180.0199	Pass	5180.019	Pass	5180.0203	Pass
	4.25	5180.0211	Pass	5180.0195	Pass	5180.0186	Pass	5180.0209	Pass

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

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

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

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

#### 4.7.7 Test Results

##### 802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	3.2	0.5	Pass
149	5745	16.13	0.5	Pass
157	5785	16.12	0.5	Pass
165	5825	16.35	0.5	Pass

##### 802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (U-NII-3 Band)	5720	3.85	3.84	0.5	Pass
149	5745	17.67	17.67	0.5	Pass
157	5785	17.66	17.67	0.5	Pass
165	5825	17.66	17.64	0.5	Pass

##### 802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (U-NII-3 Band)	5710	2.67	3.2	0.5	Pass
151	5755	35.35	35.77	0.5	Pass
159	5795	35.86	35.54	0.5	Pass

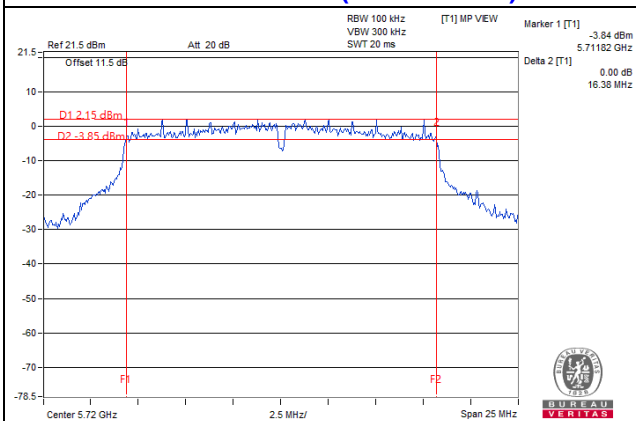
##### 802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (U-NII-3 Band)	5690	2.77	2.77	0.5	Pass
155	5775	76.03	75.73	0.5	Pass

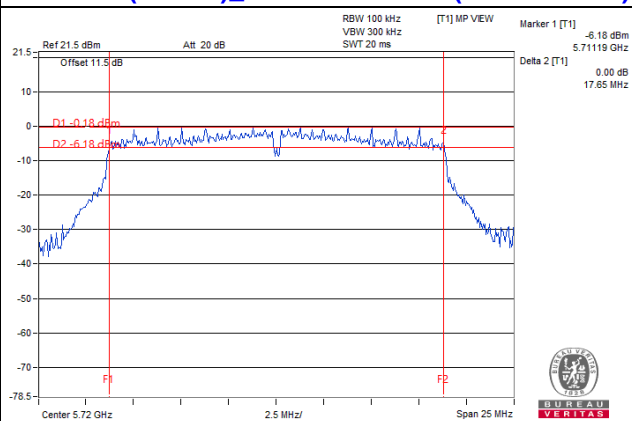


Spectrum Plot of Worst Value

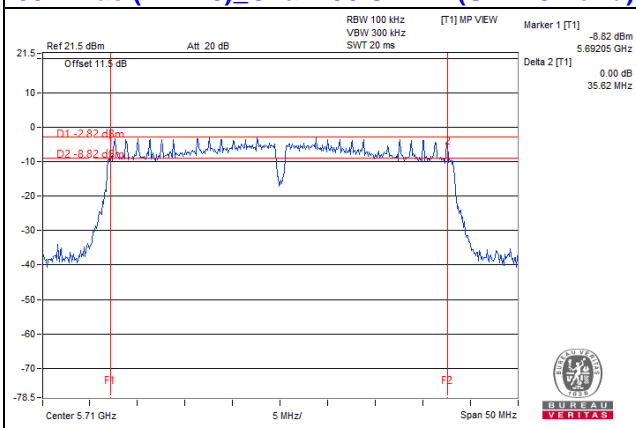
802.11a / CH144 (U-NII-3 Band)



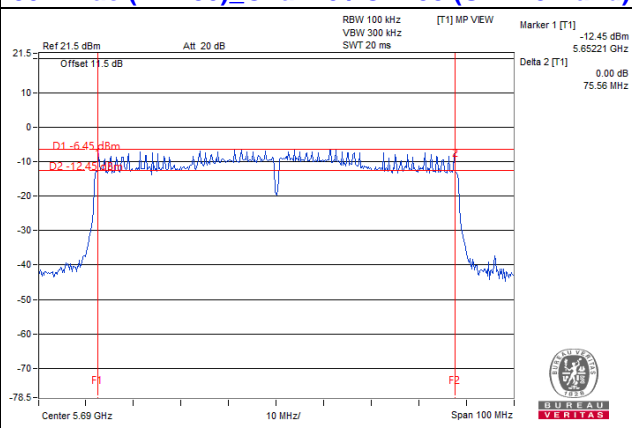
802.11ac (VHT20)\_Chain 1 / CH144 (U-NII-3 Band)



802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-3 Band)



802.11ac (VHT80)\_Chain 0 / CH138 (U-NII-3 Band)



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

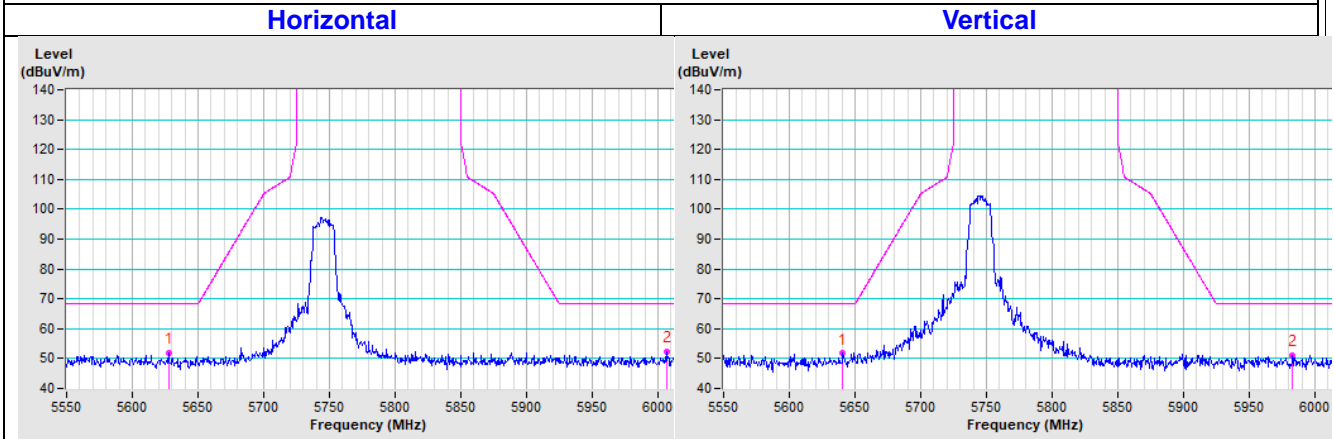
## 5 Pictures of Test Arrangements

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

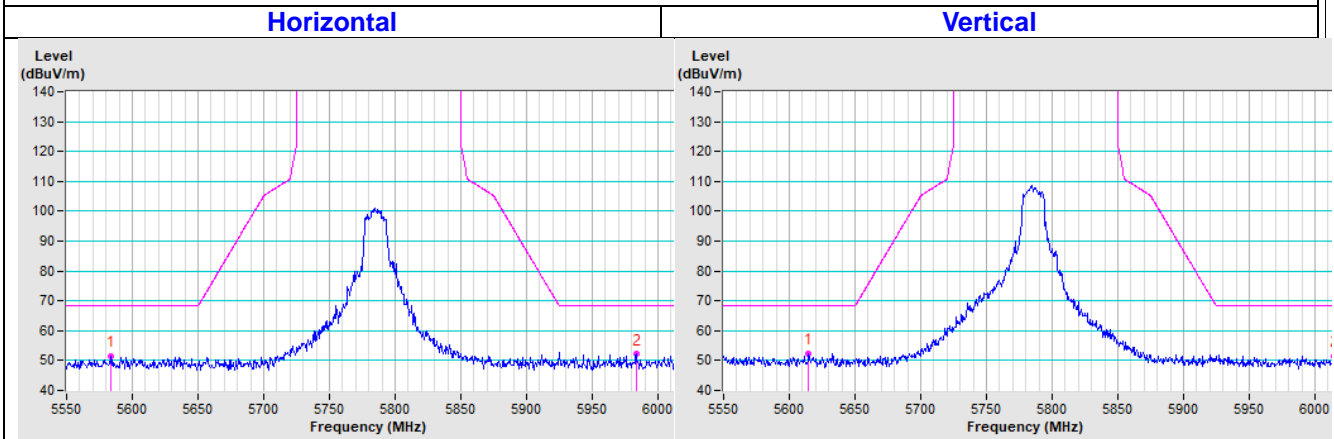
# Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

## Annex A.1 – Test Results (Mode 1)

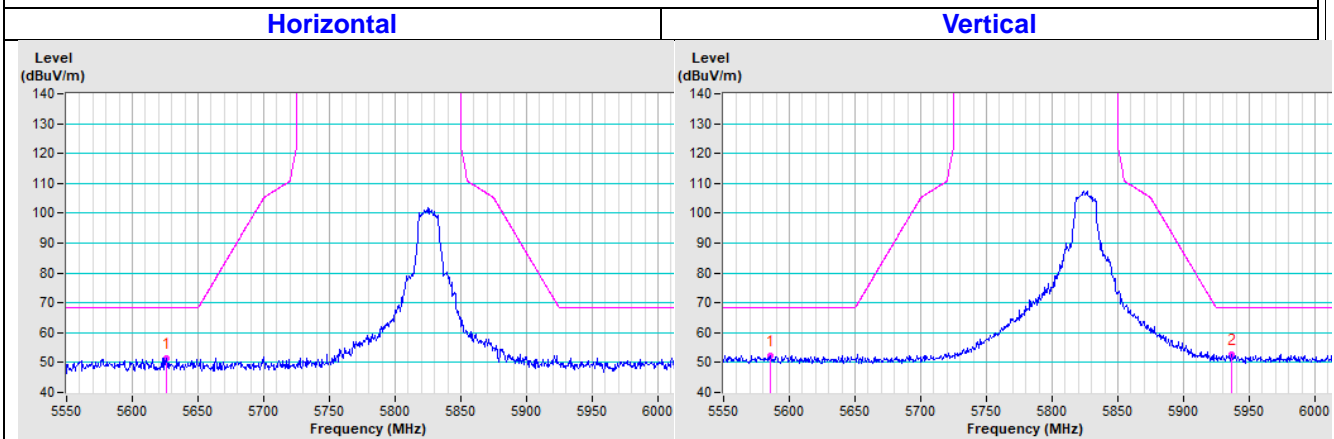
### 802.11a CH 149 : 5745 MHz



### 802.11a CH 157 : 5785 MHz

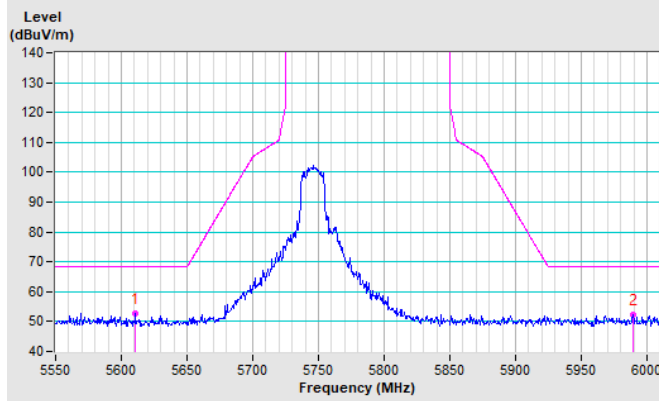


### 802.11a CH 165 : 5825 MHz

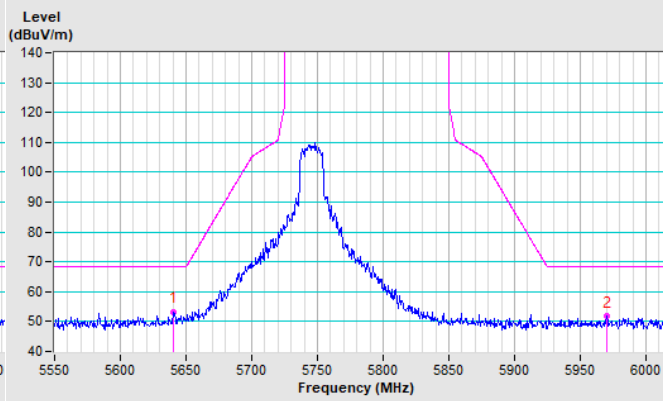


**802.11ac (VHT20) CH 149 : 5745 MHz**

**Horizontal**

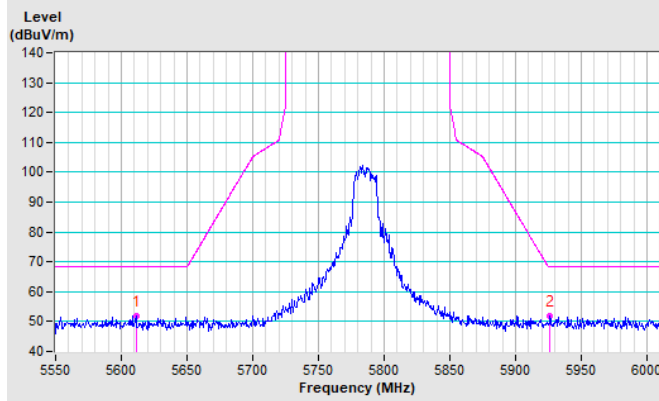


**Vertical**

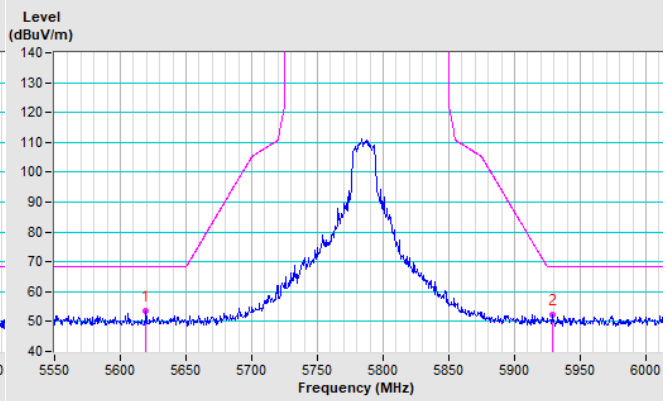


**802.11ac (VHT20) CH 157 : 5785 MHz**

**Horizontal**

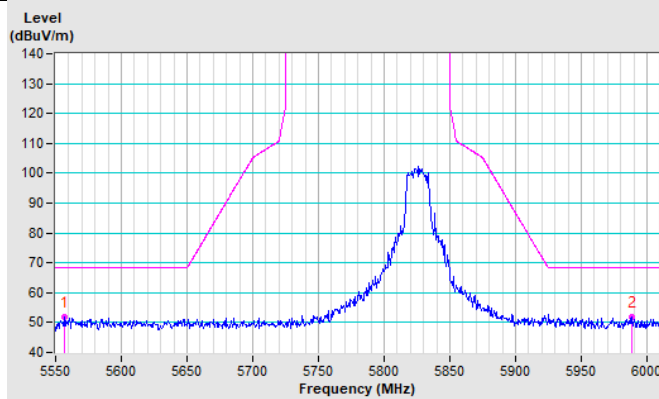


**Vertical**

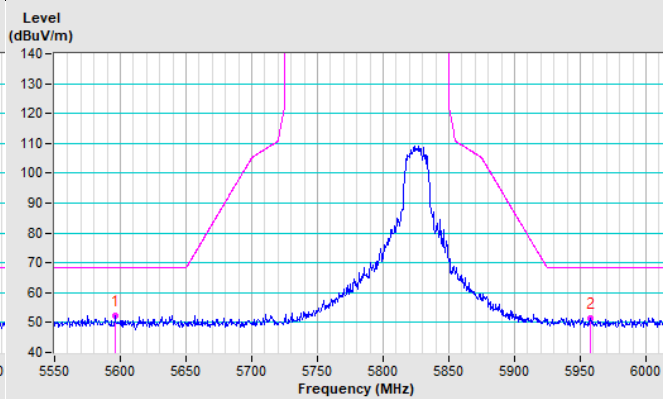


**802.11ac (VHT20) CH 165 : 5825 MHz**

**Horizontal**



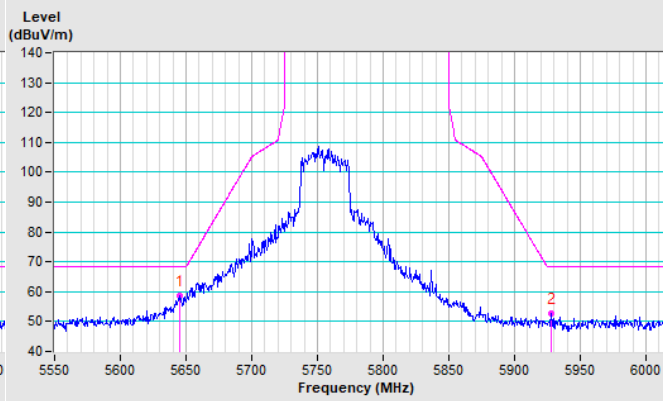
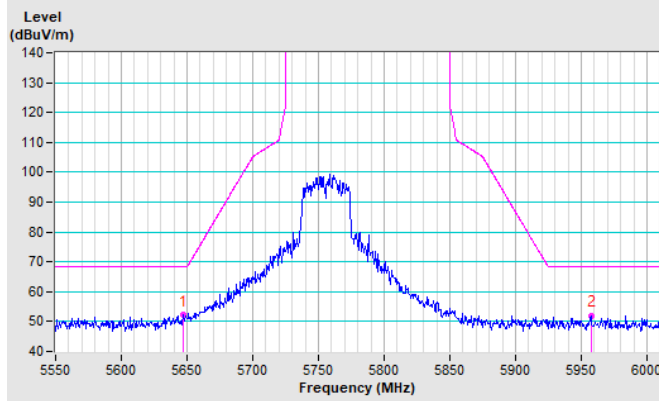
**Vertical**



**802.11ac (VHT40) CH 151 : 5755 MHz**

**Horizontal**

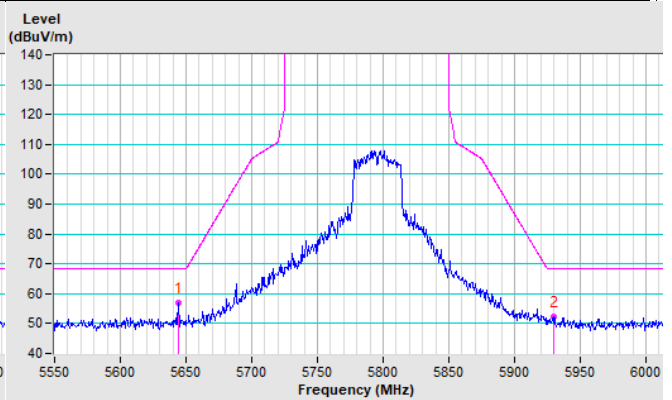
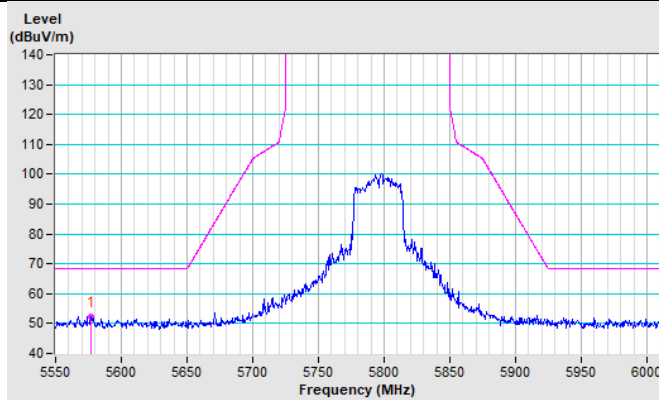
**Vertical**



**802.11ac (VHT40) CH 159 : 5795 MHz**

**Horizontal**

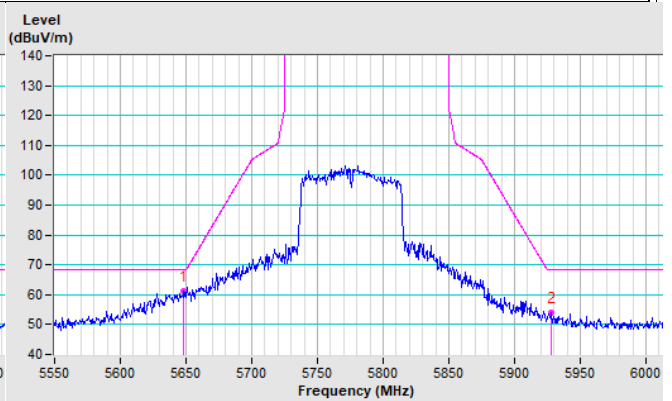
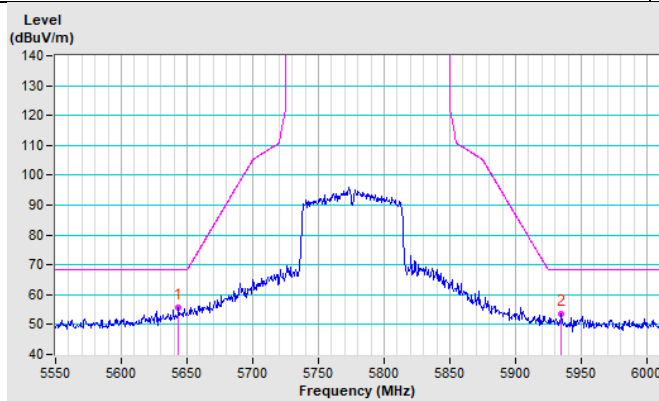
**Vertical**



**802.11ac (VHT80) CH 155 : 5775 MHz**

**Horizontal**

**Vertical**

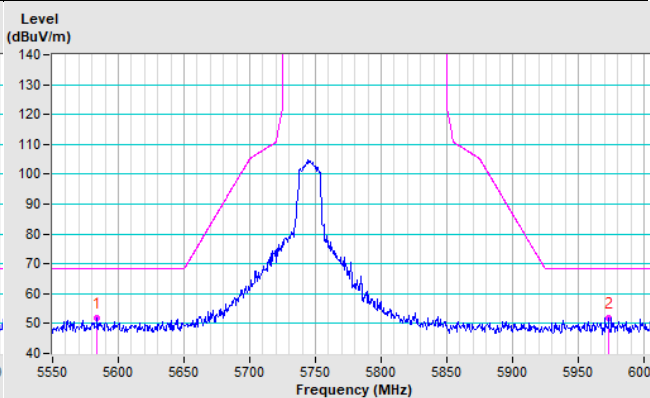
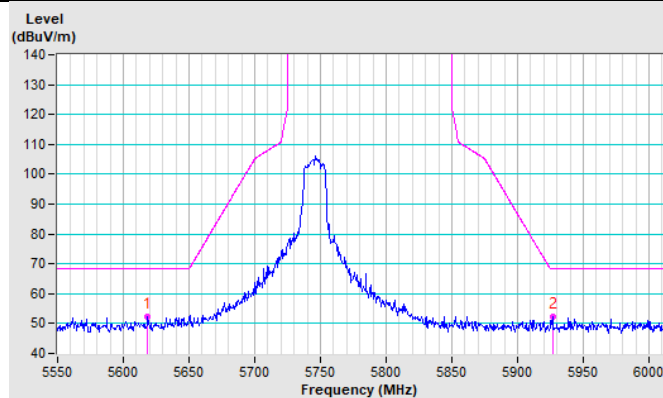


### Annex A.2 – Test Results (Mode 2)

#### 802.11a CH 149 : 5745 MHz

Horizontal

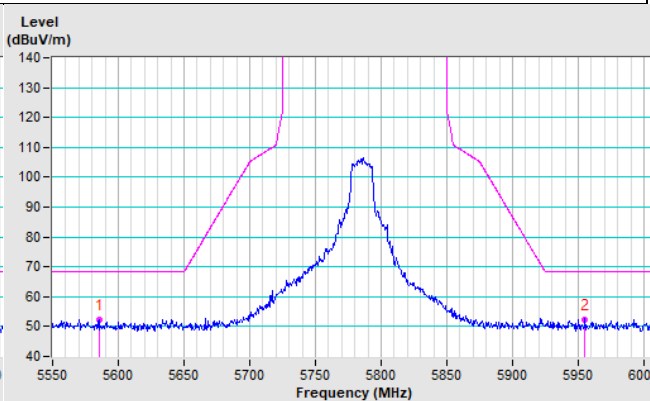
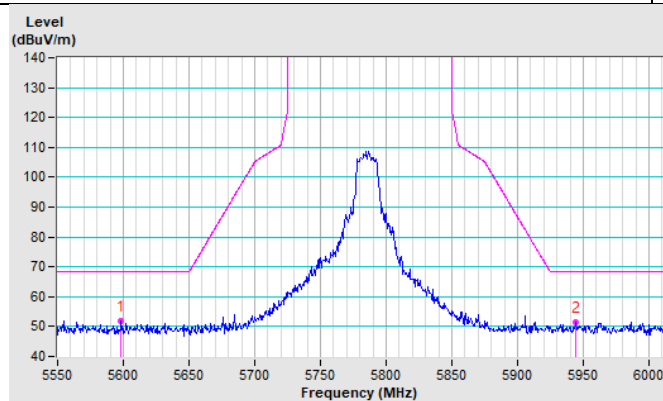
Vertical



#### 802.11a CH 157 : 5785 MHz

Horizontal

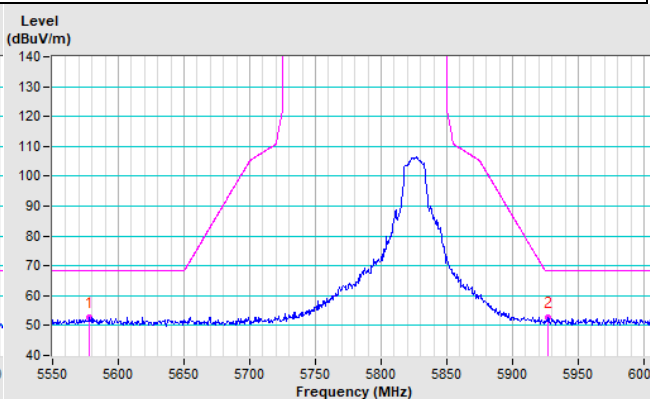
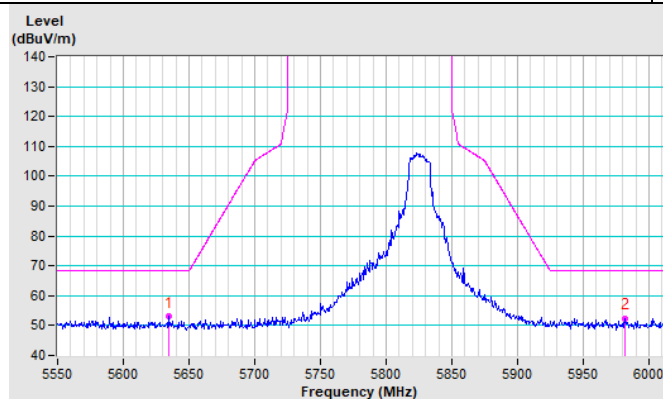
Vertical



#### 802.11a CH 165 : 5825 MHz

Horizontal

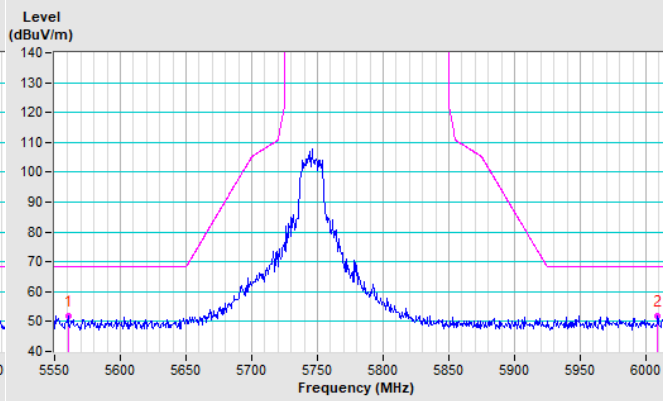
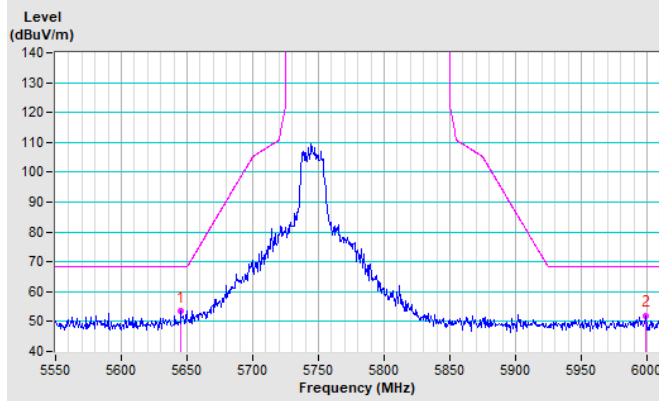
Vertical



**802.11ac (VHT20) CH 149 : 5745 MHz**

**Horizontal**

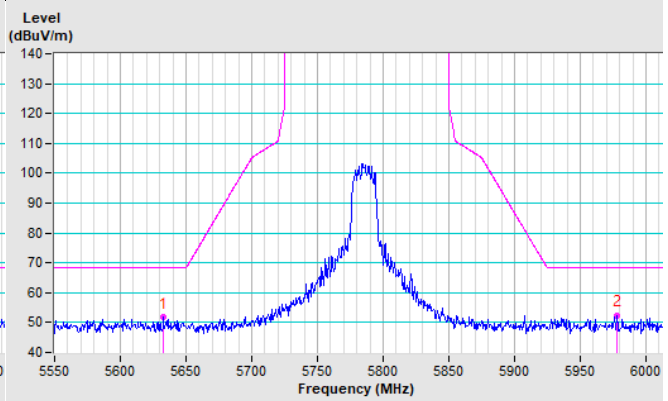
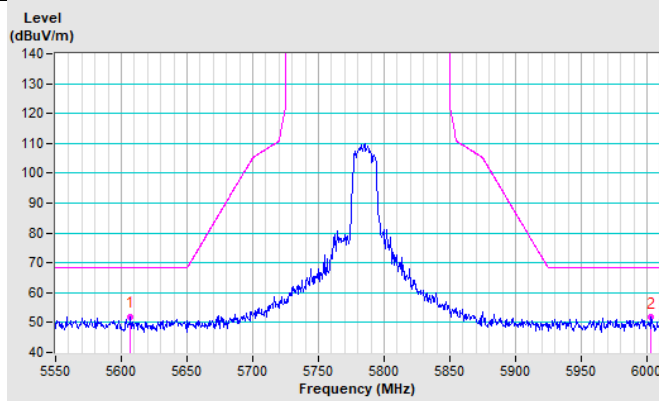
**Vertical**



**802.11ac (VHT20) CH 157 : 5785 MHz**

**Horizontal**

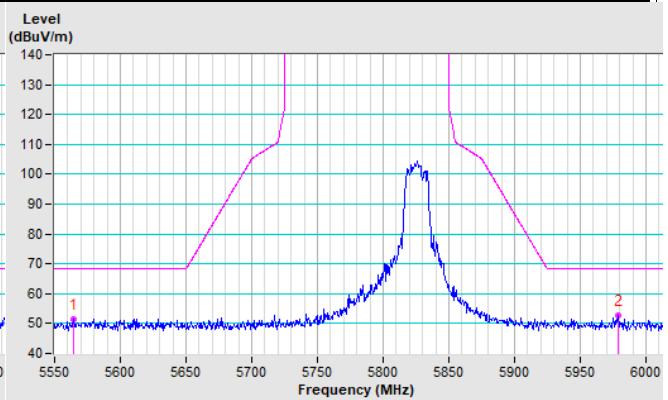
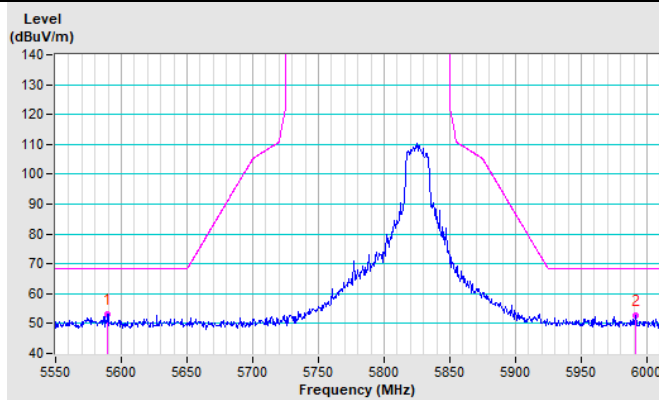
**Vertical**



**802.11ac (VHT20) CH 165 : 5825 MHz**

**Horizontal**

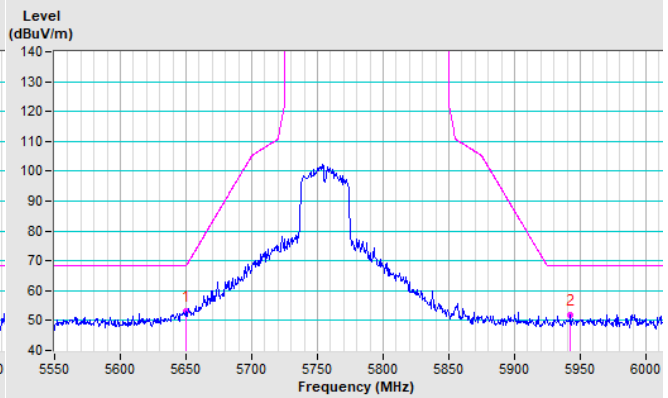
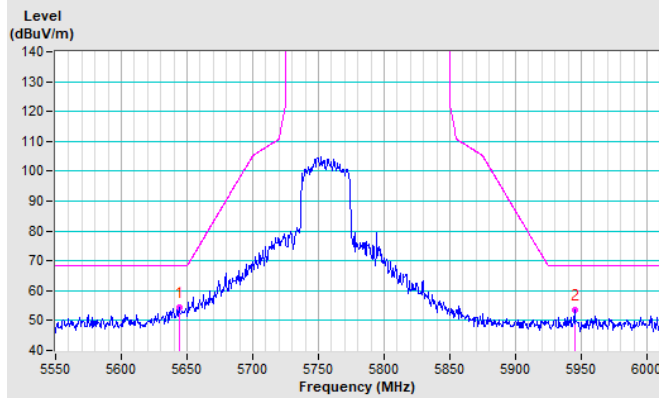
**Vertical**



802.11ac (VHT40) CH 151 : 5755 MHz

Horizontal

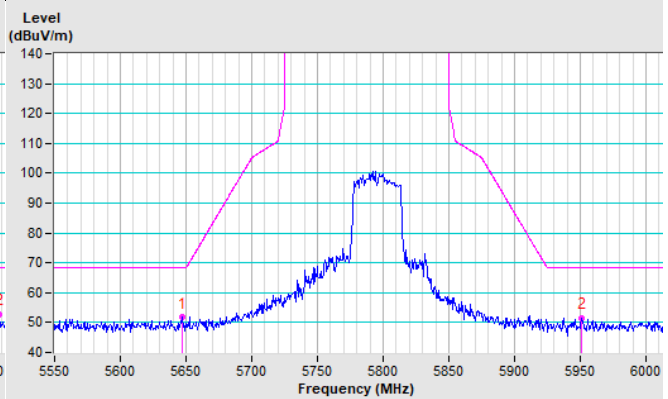
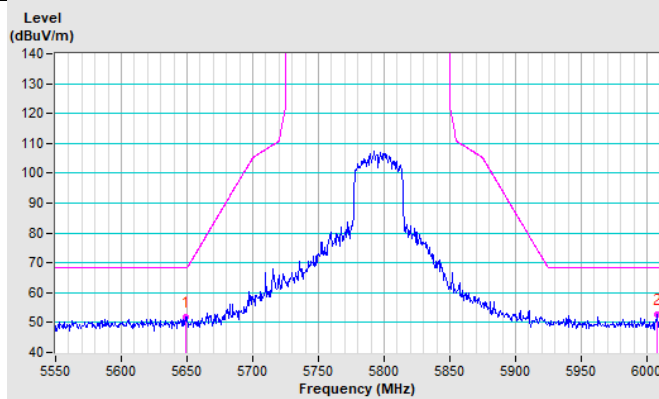
Vertical



802.11ac (VHT40) CH 159 : 5795 MHz

Horizontal

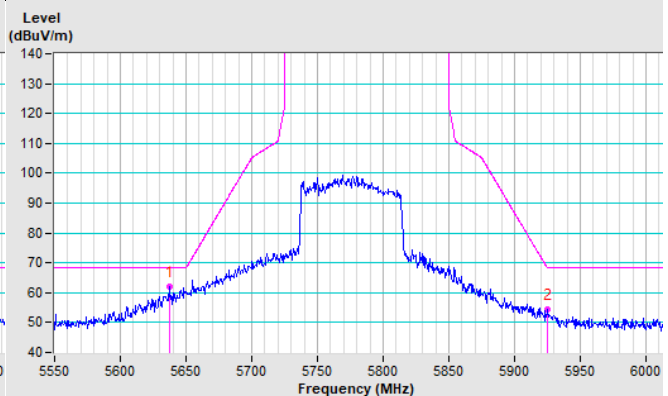
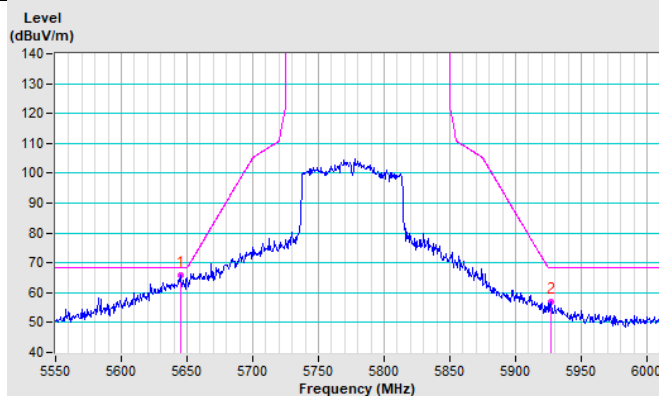
Vertical



802.11ac (VHT80) CH 155 : 5775 MHz

Horizontal

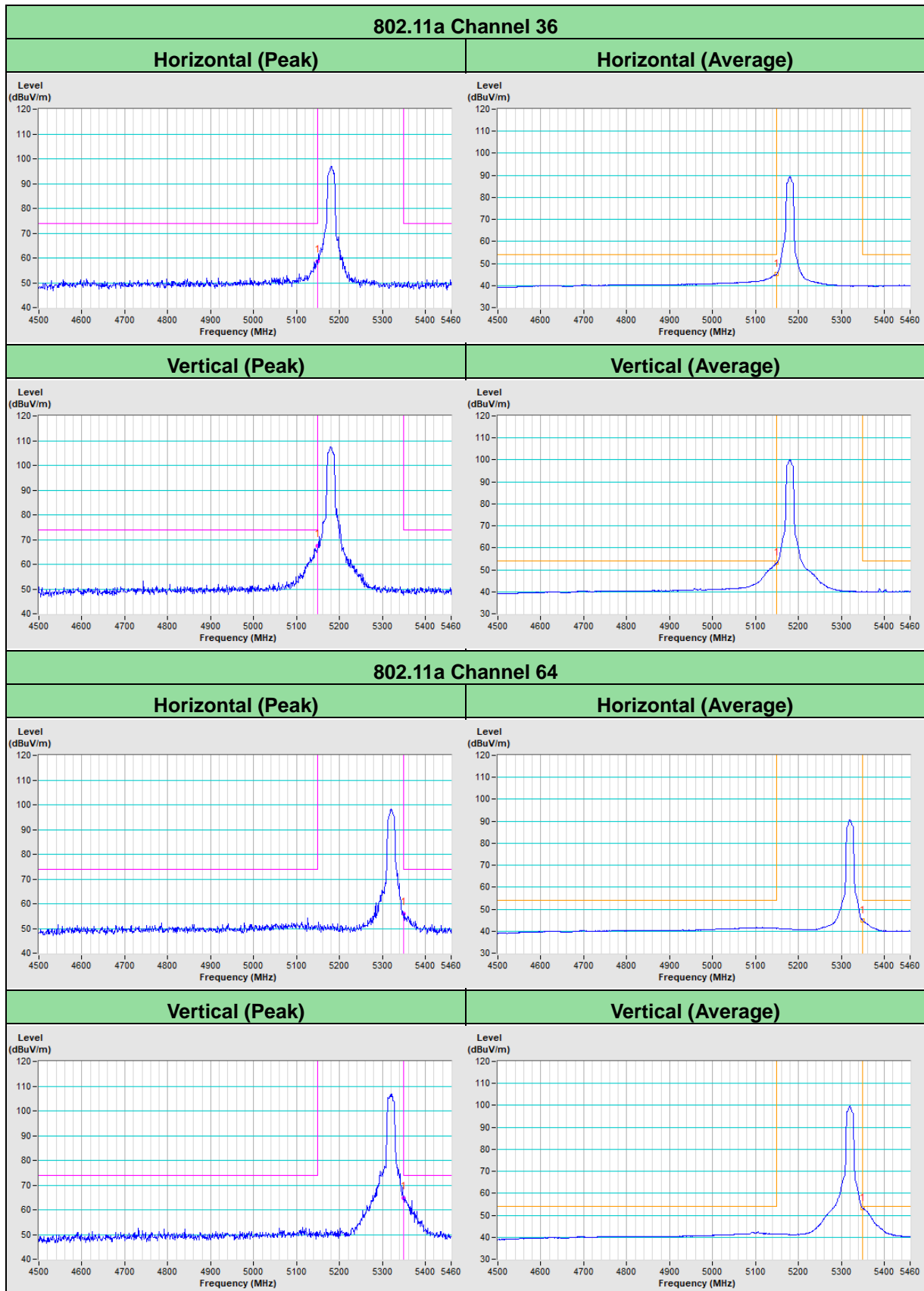
Vertical

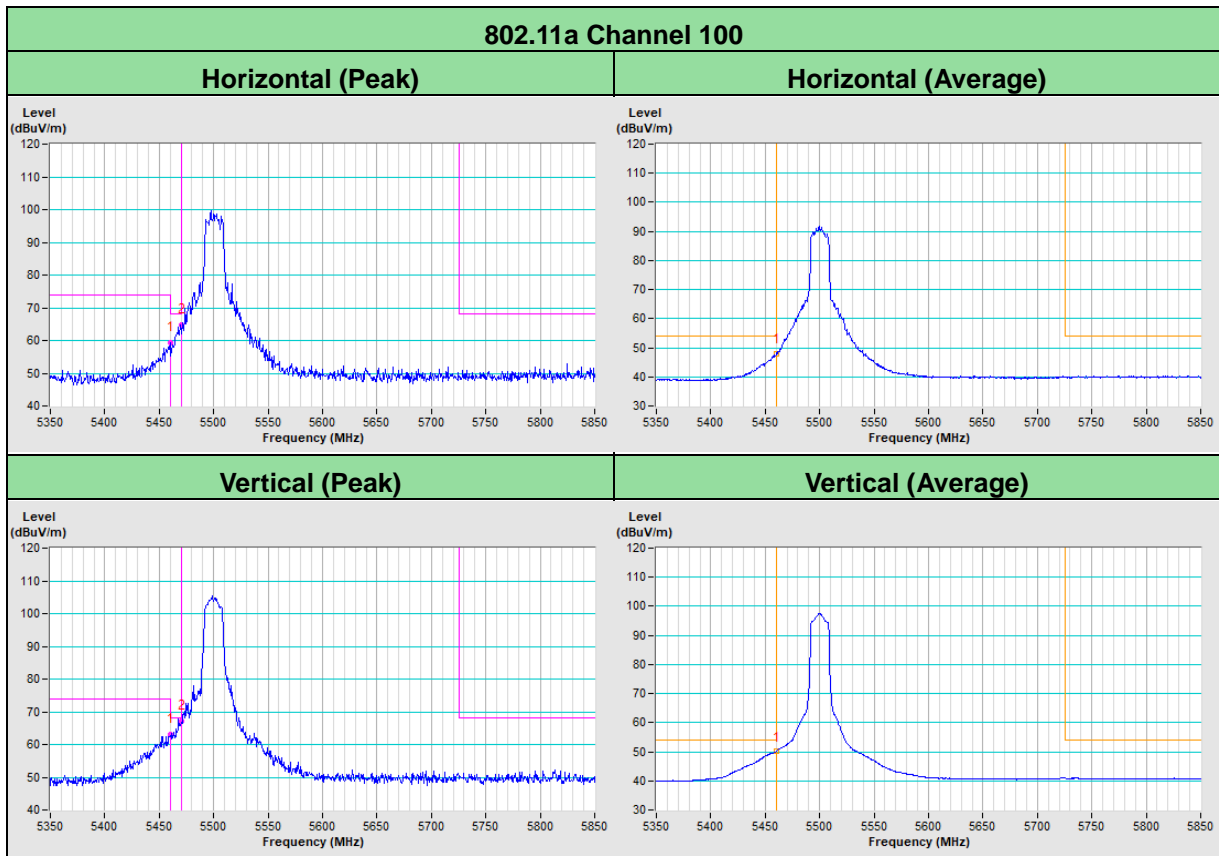




## Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band)

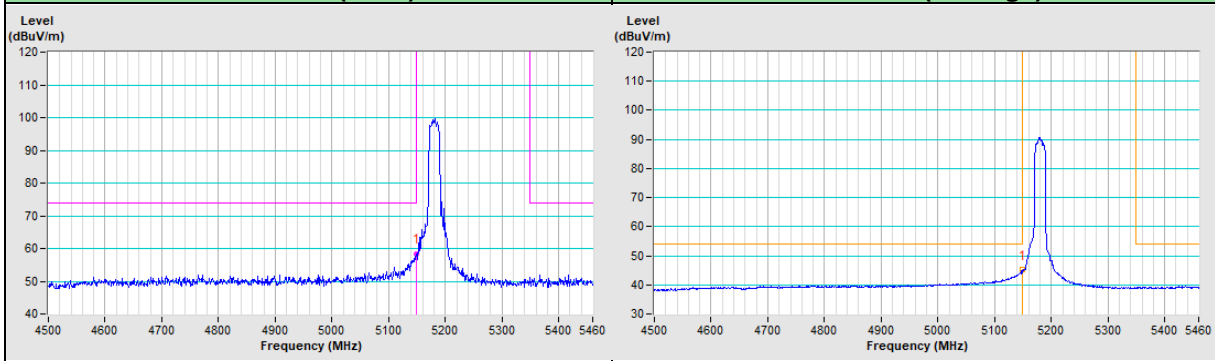
### Annex B.1 – Test Results (Mode 1)



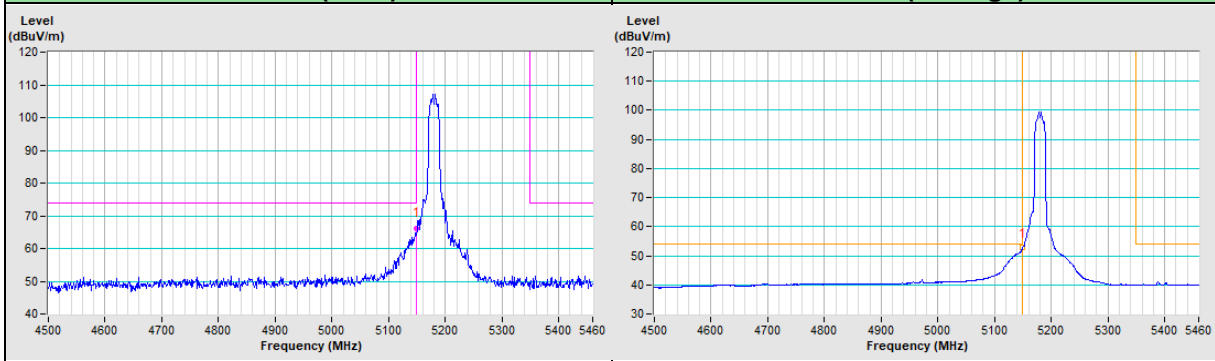


**802.11ac (VHT20) Channel 36**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
--------------------------	-----------------------------

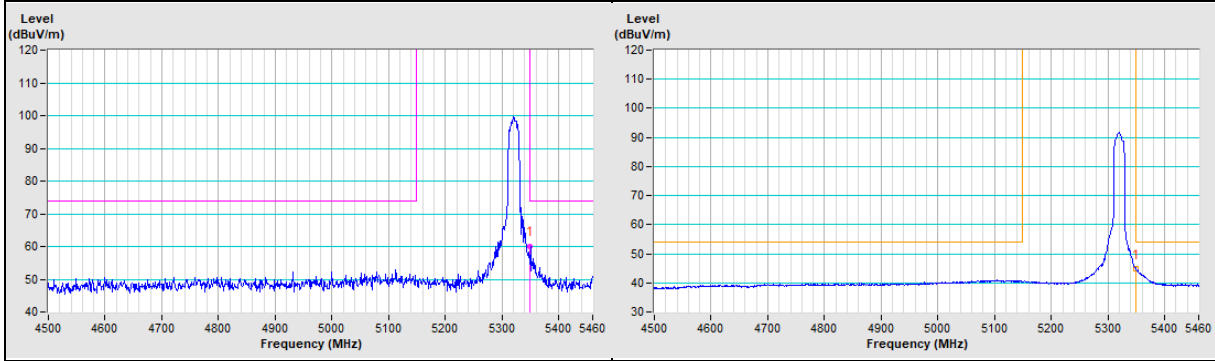


<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
------------------------	---------------------------

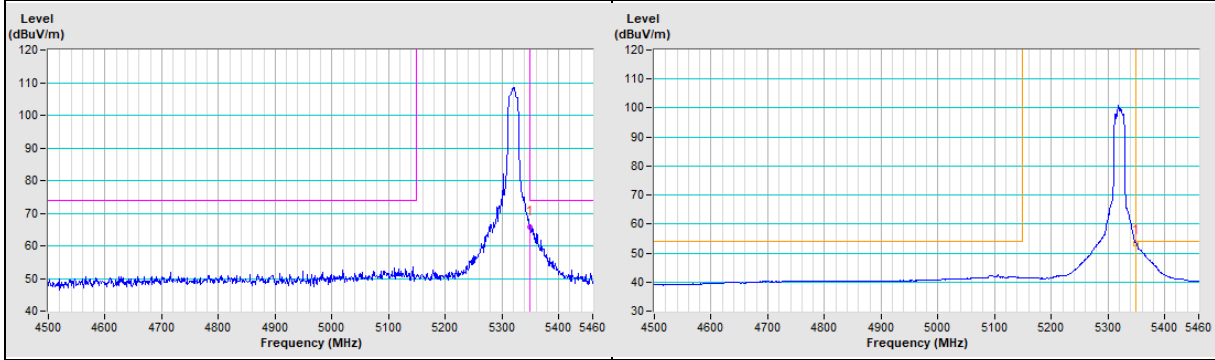


**802.11ac (VHT20) Channel 64**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
--------------------------	-----------------------------

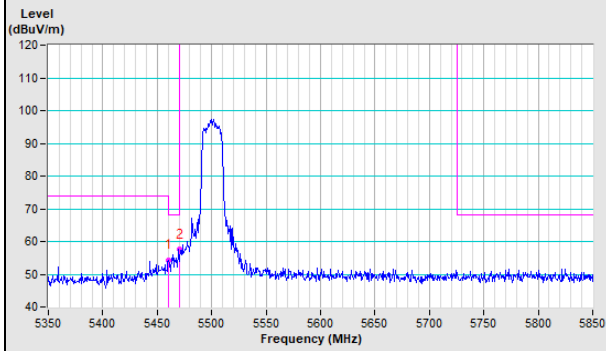


<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
------------------------	---------------------------

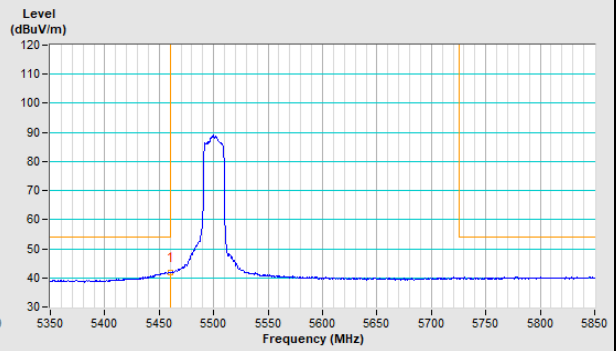


### 802.11ac (VHT20) Channel 100

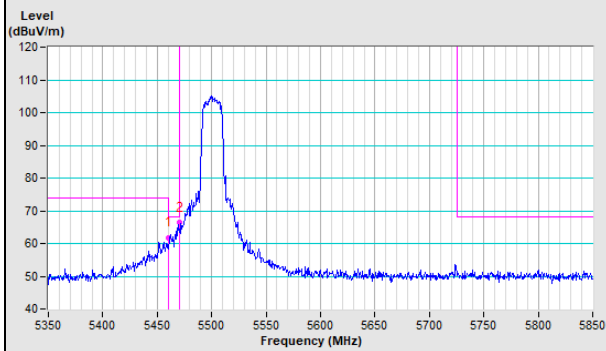
#### Horizontal (Peak)



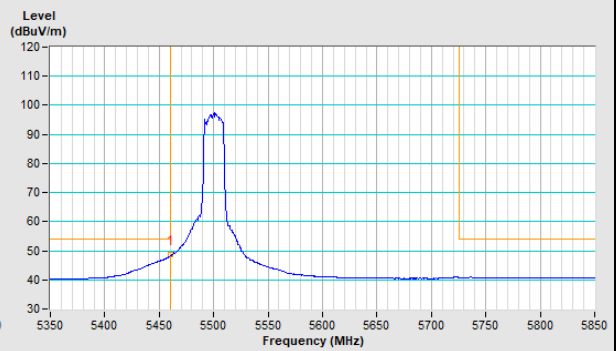
#### Horizontal (Average)



#### Vertical (Peak)

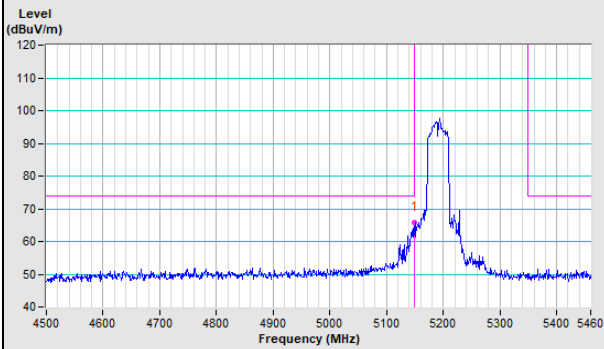


#### Vertical (Average)

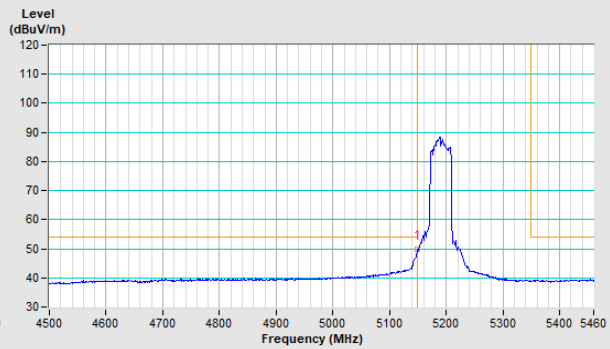


### 802.11ac (VHT40) Channel 38

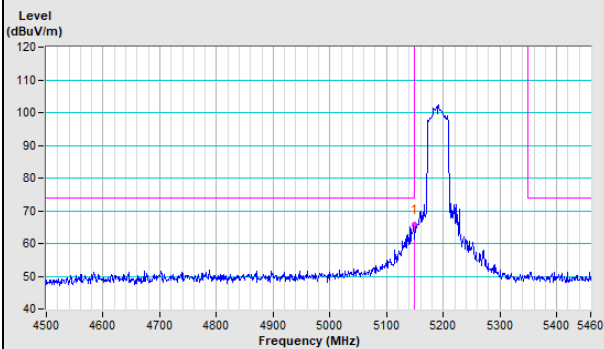
#### Horizontal (Peak)



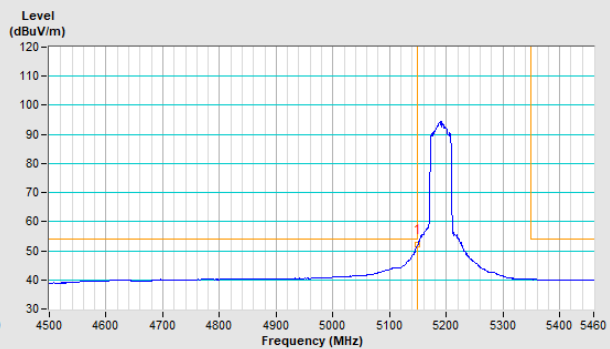
#### Horizontal (Average)



#### Vertical (Peak)

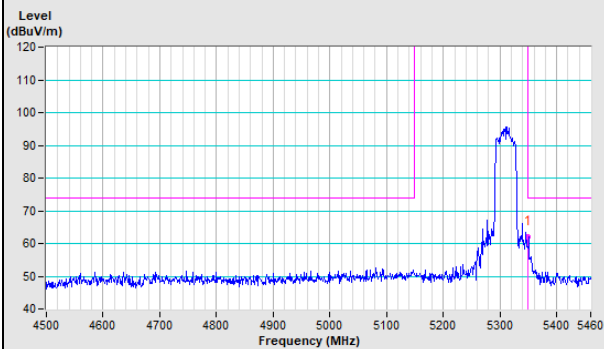


#### Vertical (Average)

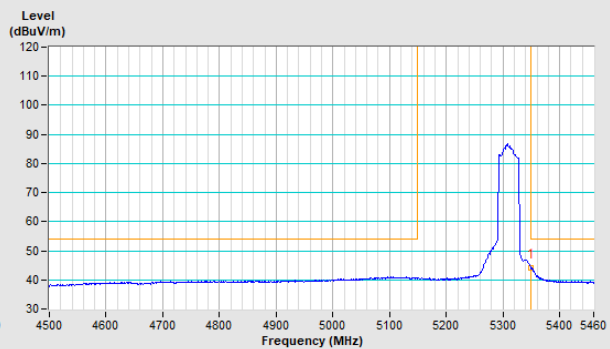


### 802.11ac (VHT40) Channel 62

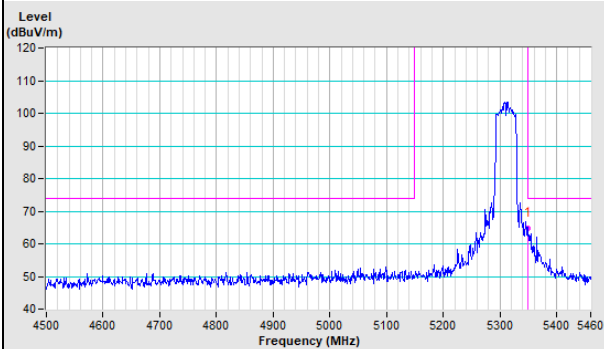
#### Horizontal (Peak)



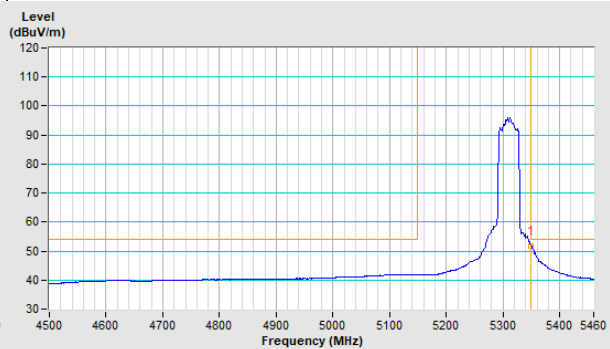
#### Horizontal (Average)



#### Vertical (Peak)

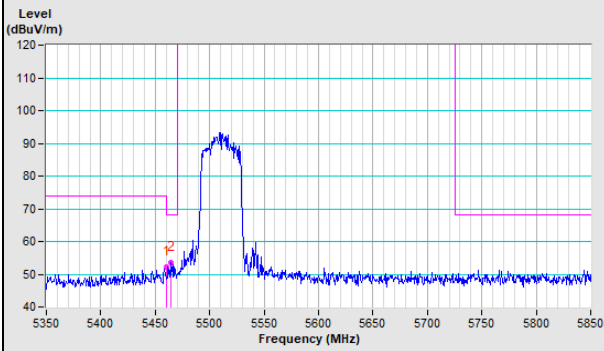


#### Vertical (Average)

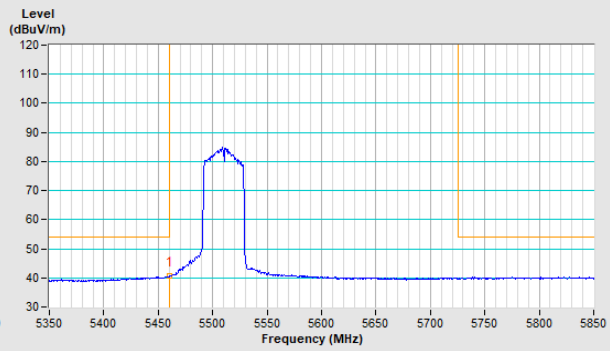


### 802.11ac (VHT40) Channel 102

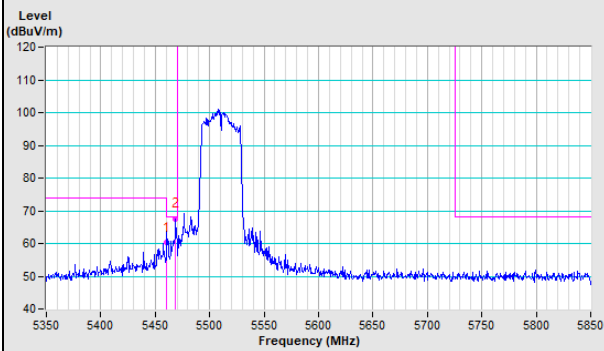
#### Horizontal (Peak)



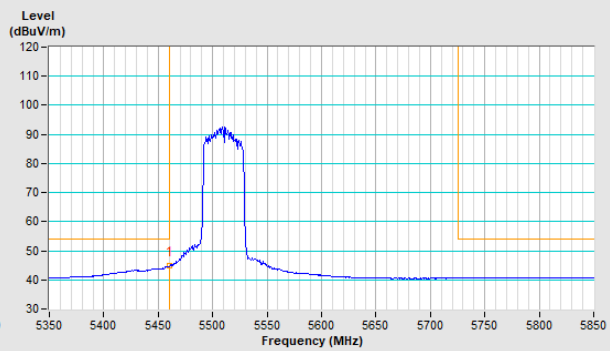
#### Horizontal (Average)



#### Vertical (Peak)

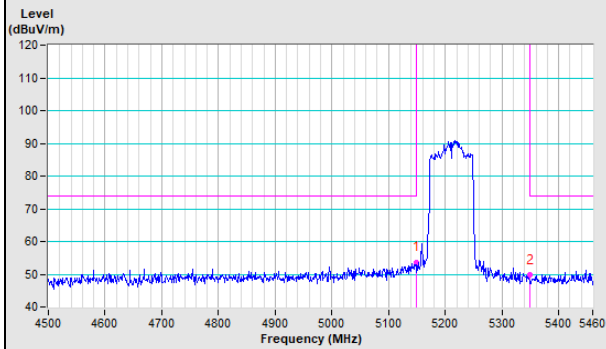


#### Vertical (Average)

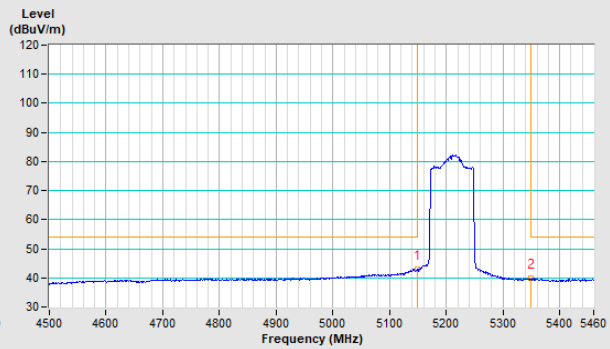


### 802.11ac (VHT80) Channel 42

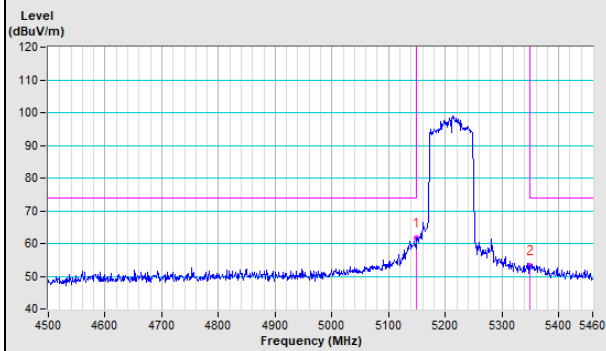
#### Horizontal (Peak)



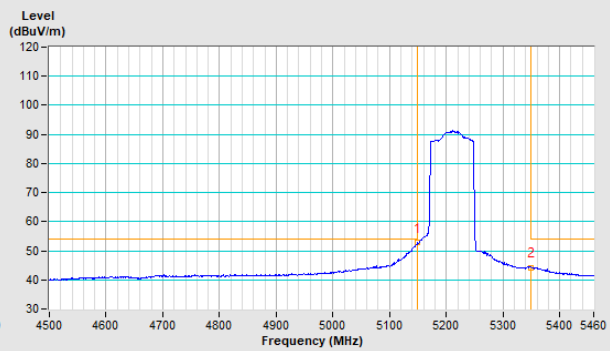
#### Horizontal (Average)



#### Vertical (Peak)

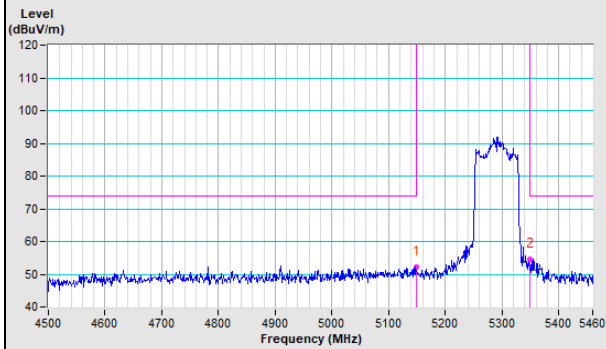


#### Vertical (Average)

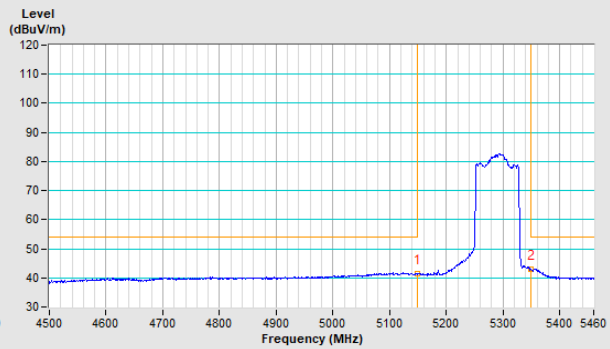


### 802.11ac (VHT80) Channel 58

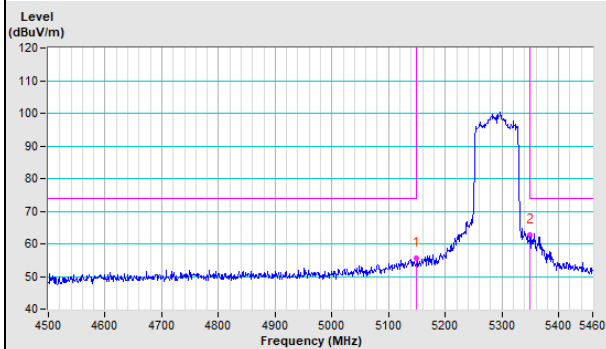
#### Horizontal (Peak)



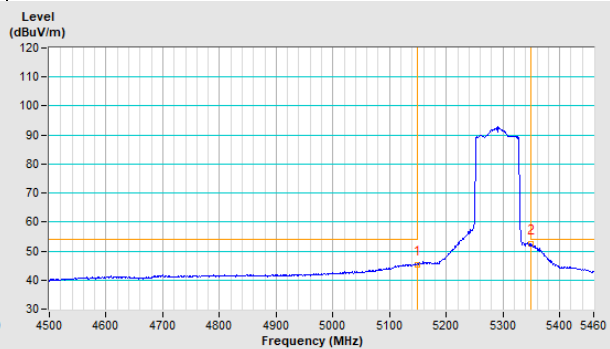
#### Horizontal (Average)



#### Vertical (Peak)

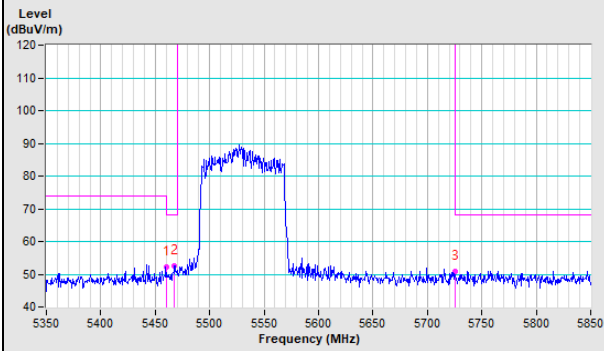


#### Vertical (Average)

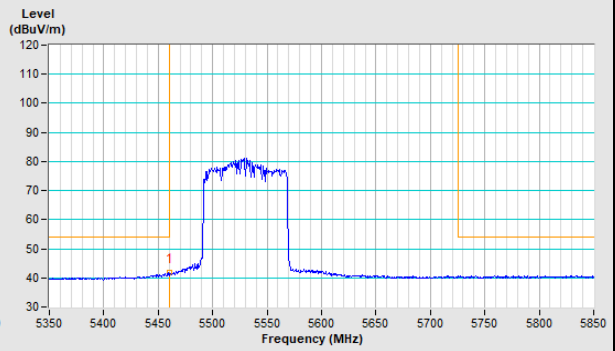


### 802.11ac (VHT80) Channel 106

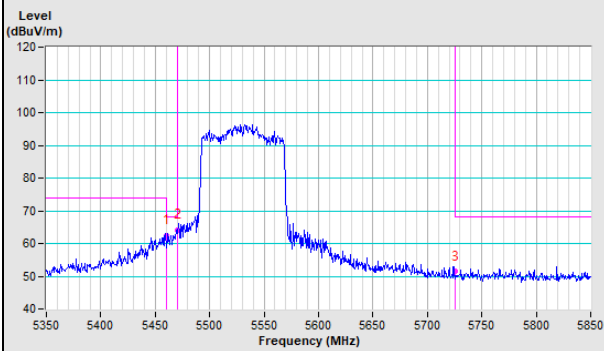
#### Horizontal (Peak)



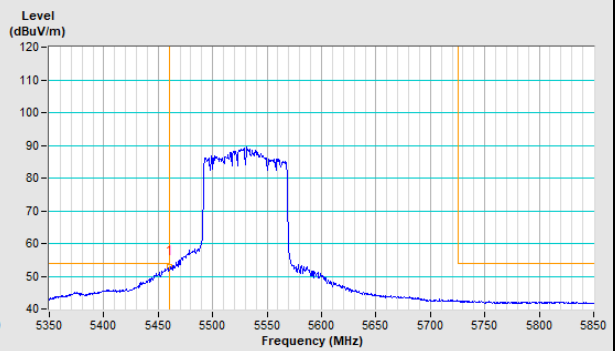
#### Horizontal (Average)



#### Vertical (Peak)

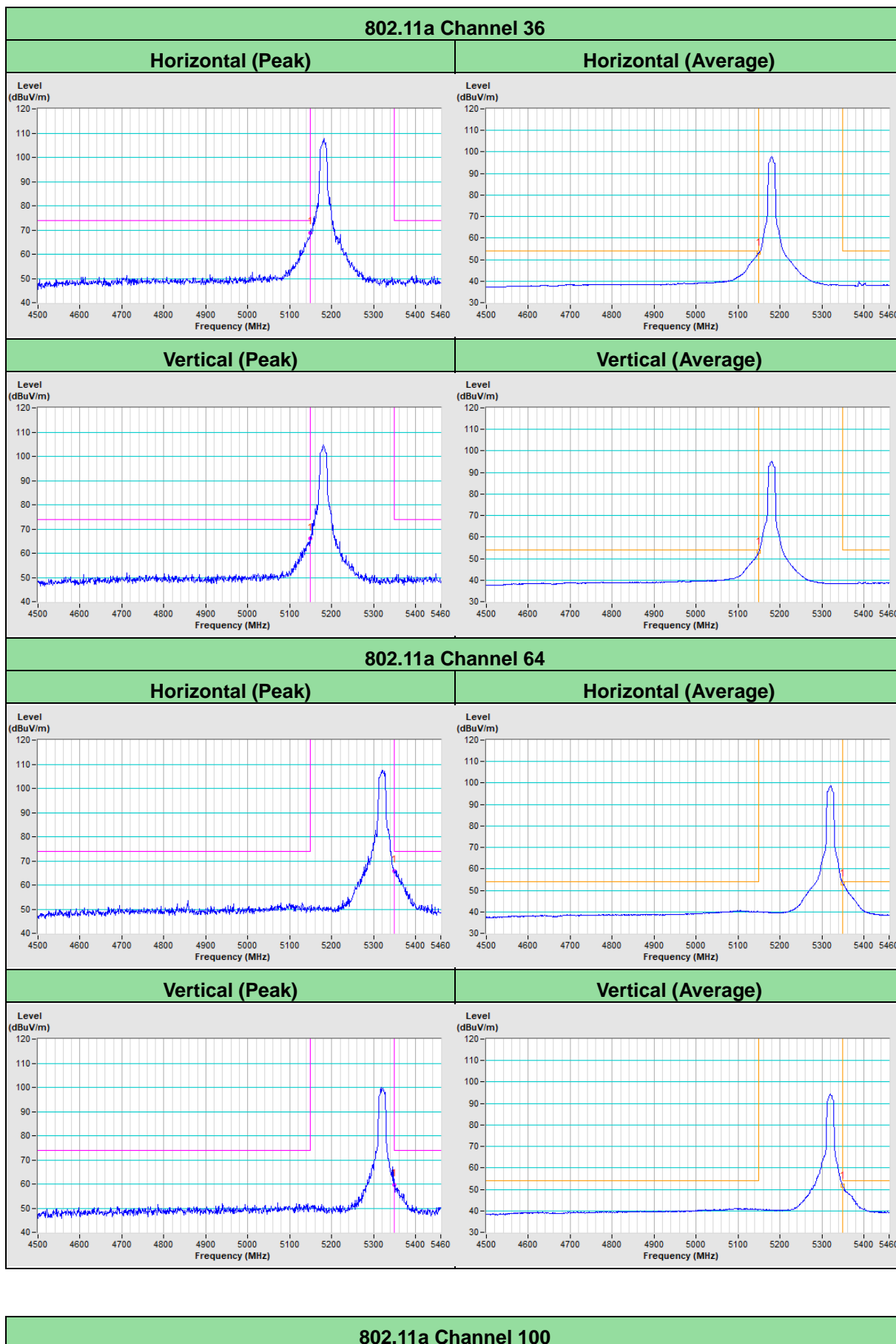


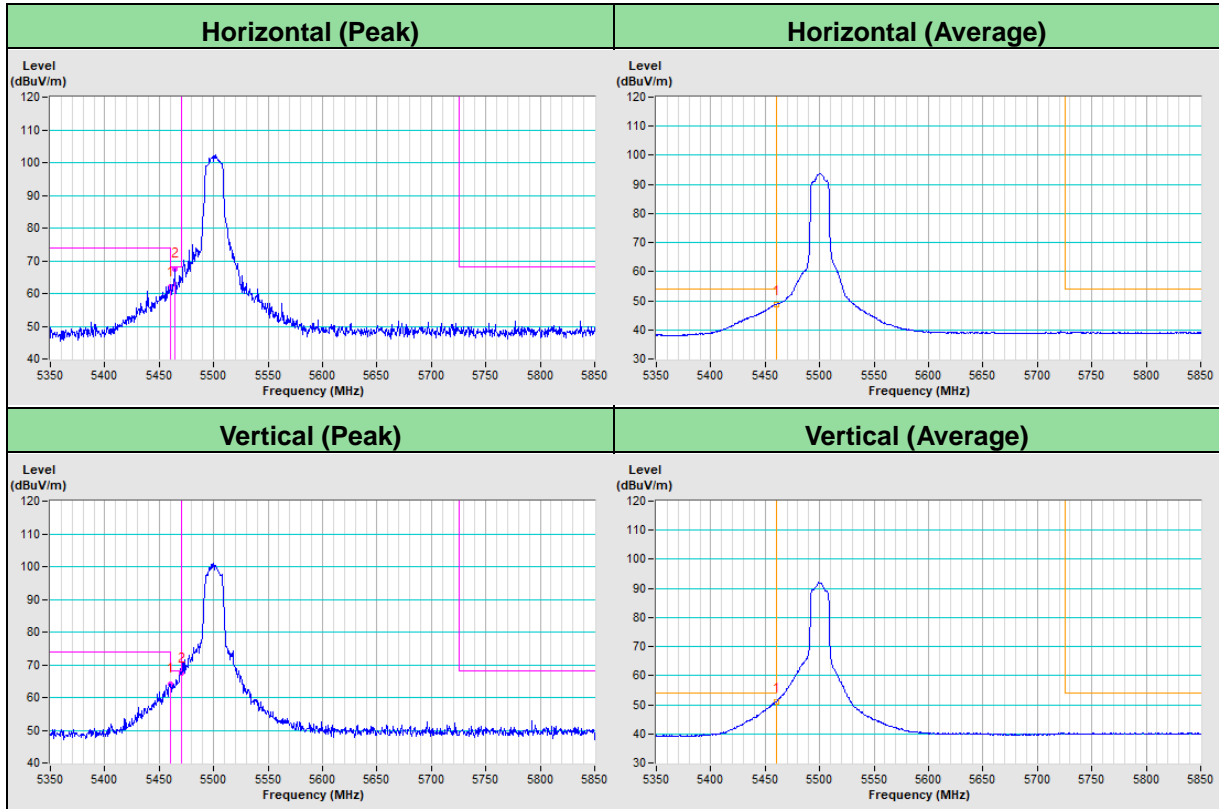
#### Vertical (Average)





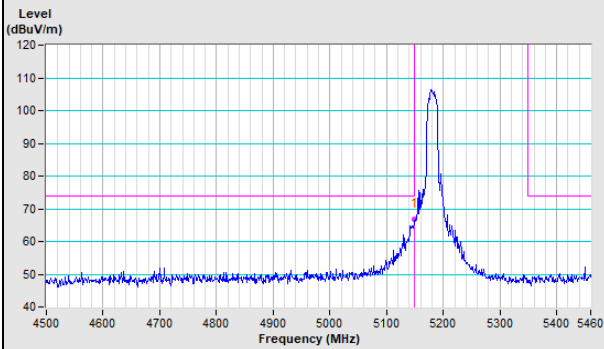
### Annex B.2 – Test Results (Mode 2)



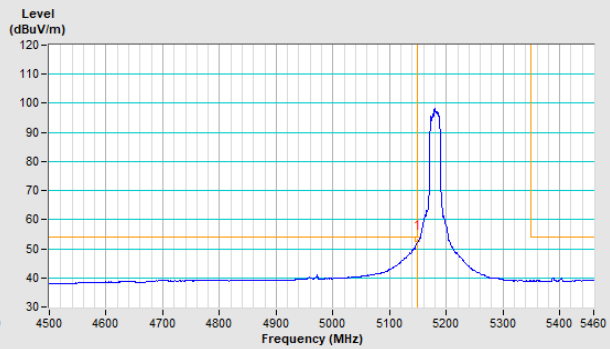


### 802.11ac (VHT20) Channel 36

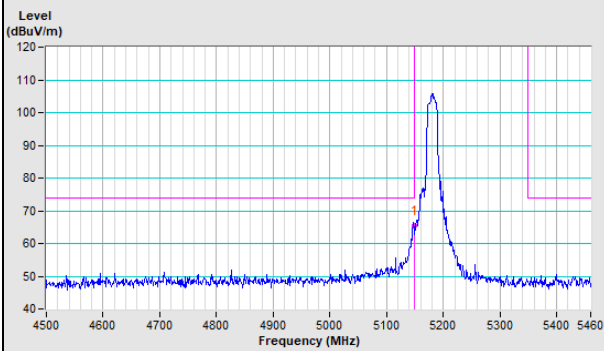
#### Horizontal (Peak)



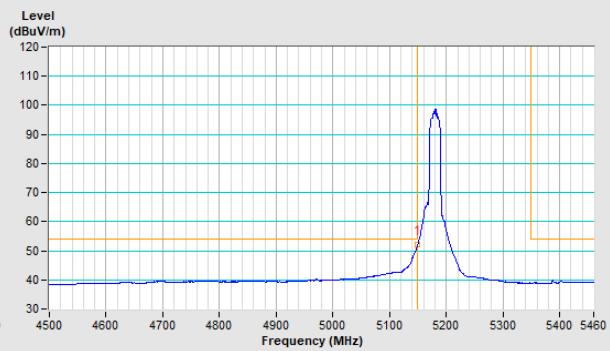
#### Horizontal (Average)



#### Vertical (Peak)

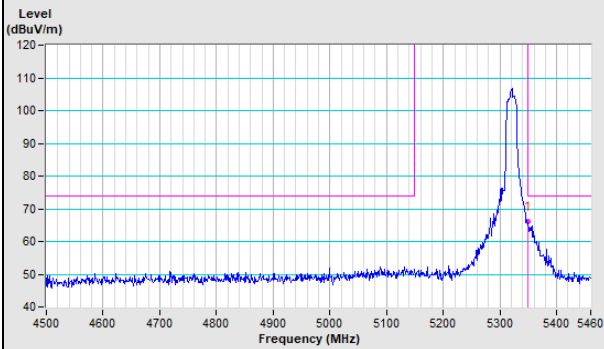


#### Vertical (Average)

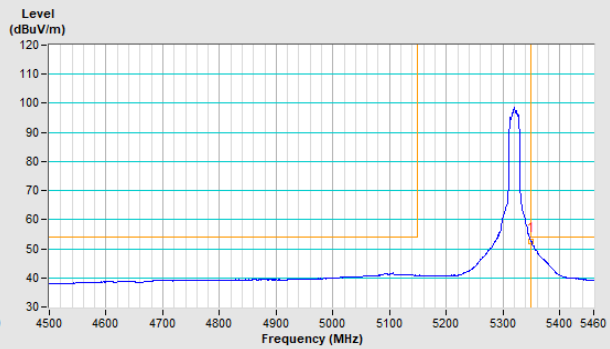


### 802.11ac (VHT20) Channel 64

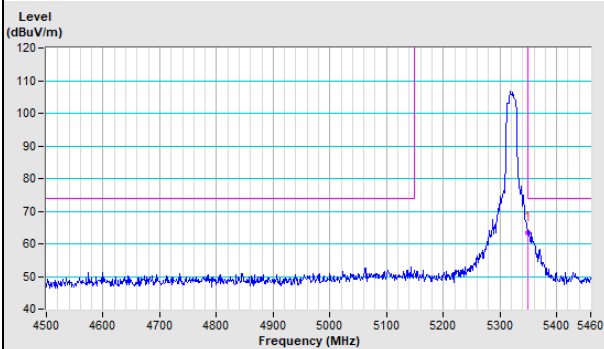
#### Horizontal (Peak)



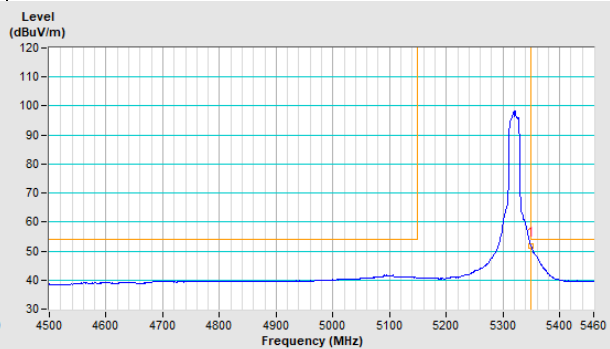
#### Horizontal (Average)



#### Vertical (Peak)

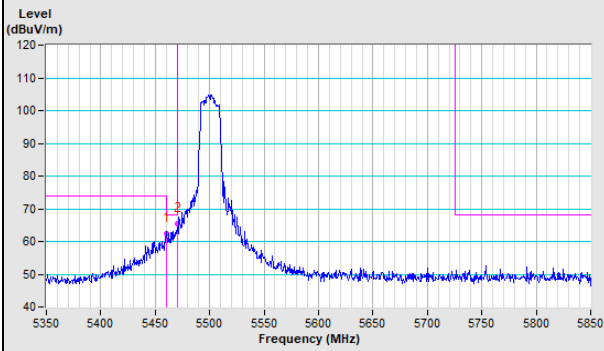


#### Vertical (Average)

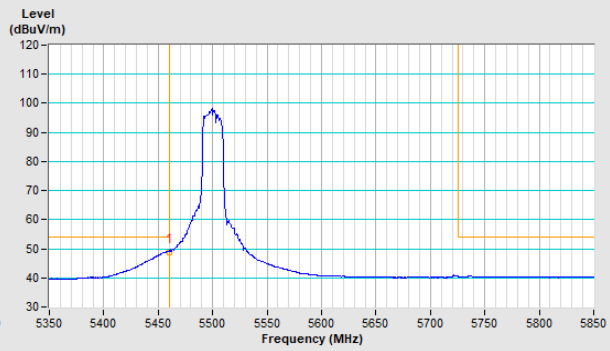


### 802.11ac (VHT20) Channel 100

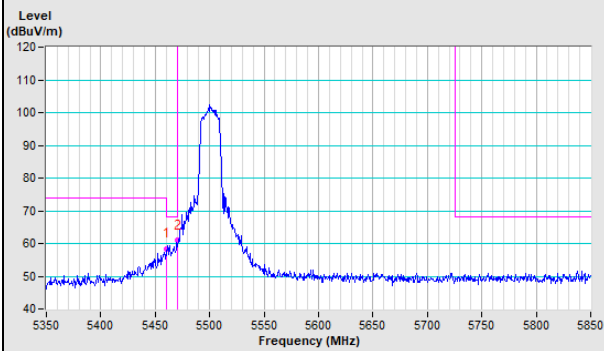
#### Horizontal (Peak)



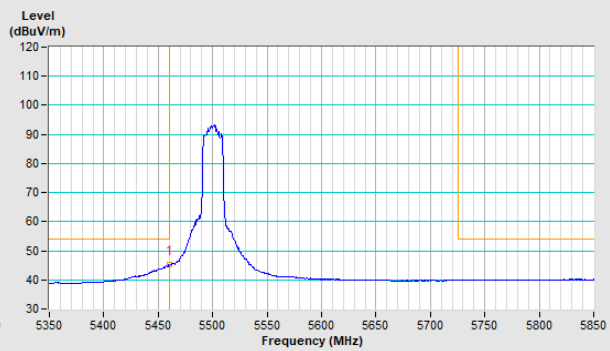
#### Horizontal (Average)



#### Vertical (Peak)

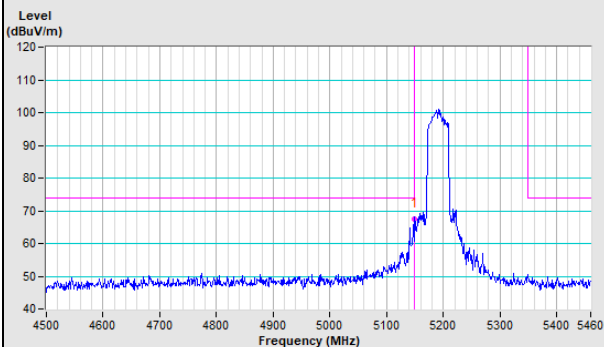


#### Vertical (Average)

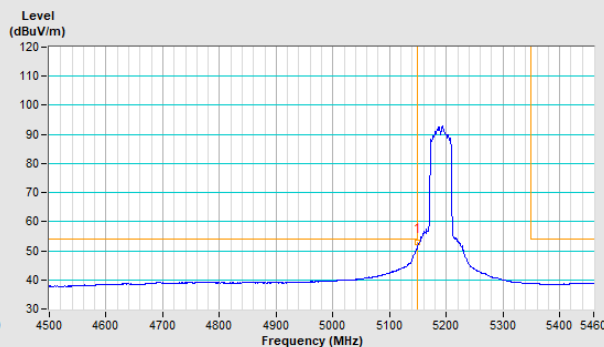


### 802.11ac (VHT40) Channel 38

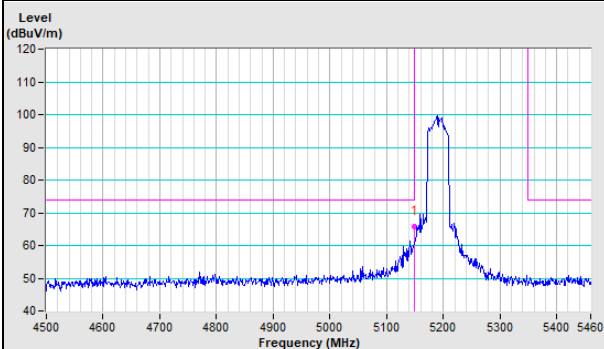
#### Horizontal (Peak)



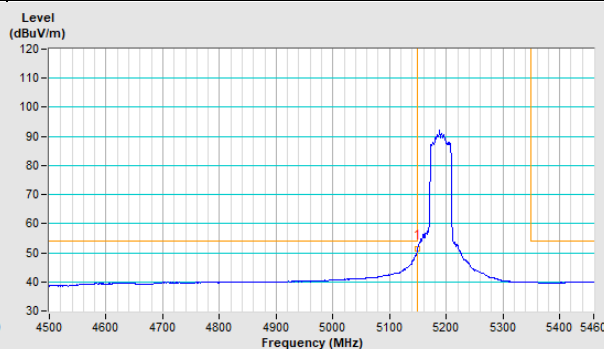
#### Horizontal (Average)



#### Vertical (Peak)

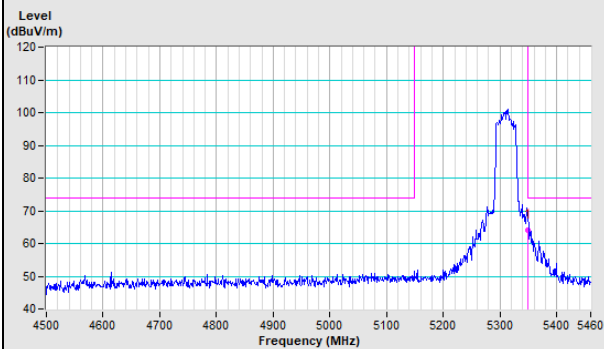


#### Vertical (Average)

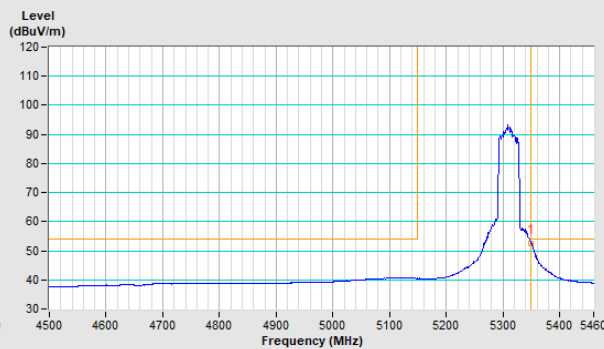


### 802.11ac (VHT40) Channel 62

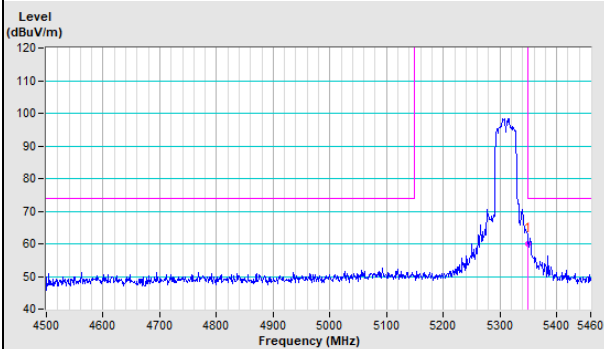
#### Horizontal (Peak)



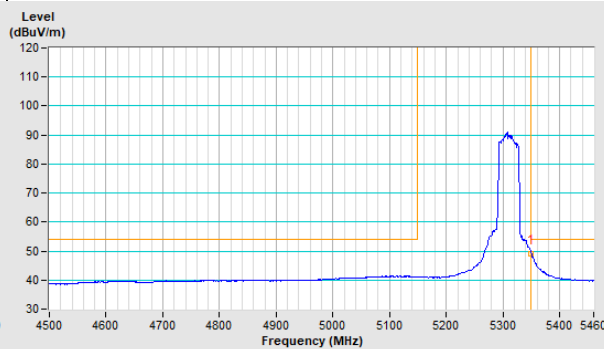
#### Horizontal (Average)



#### Vertical (Peak)

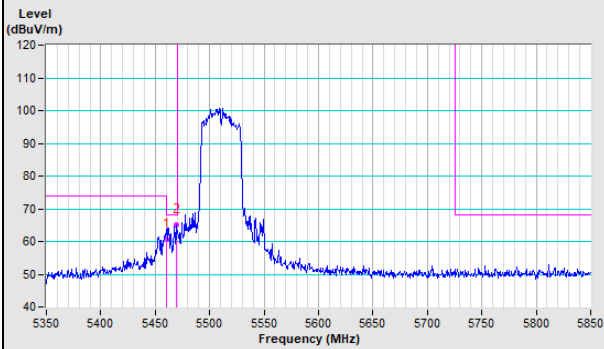


#### Vertical (Average)

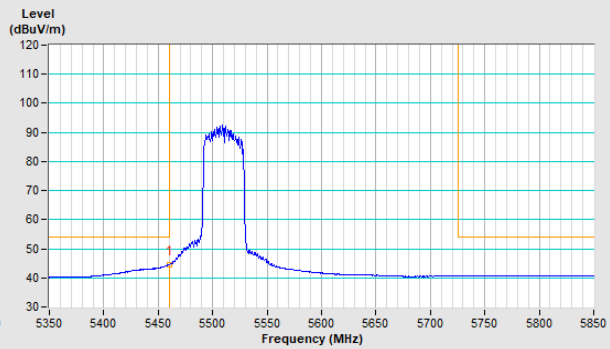


### 802.11ac (VHT40) Channel 102

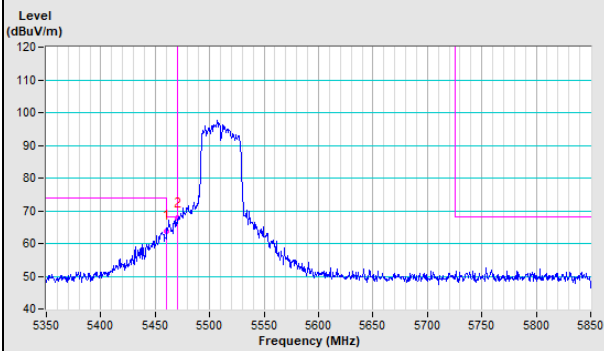
#### Horizontal (Peak)



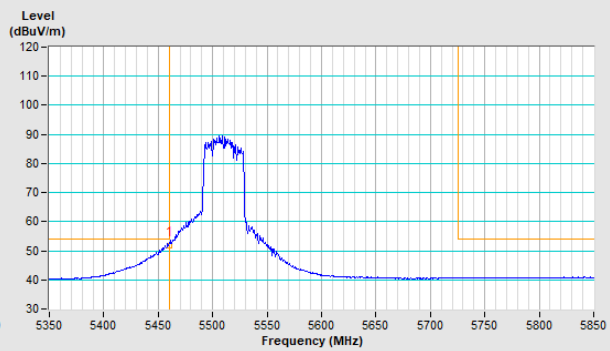
#### Horizontal (Average)



#### Vertical (Peak)

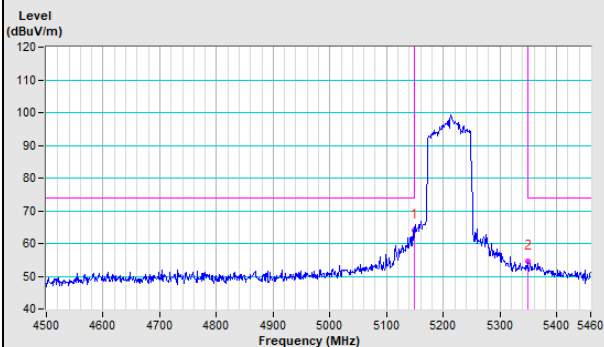


#### Vertical (Average)

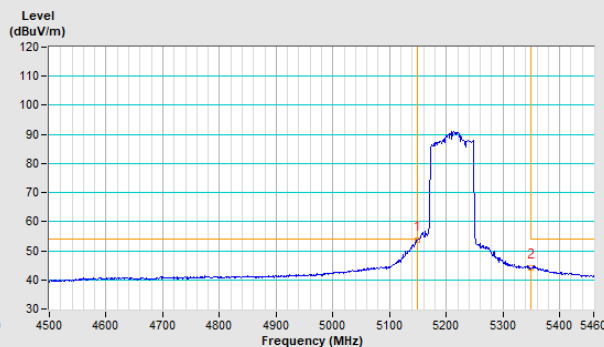


### 802.11ac (VHT80) Channel 42

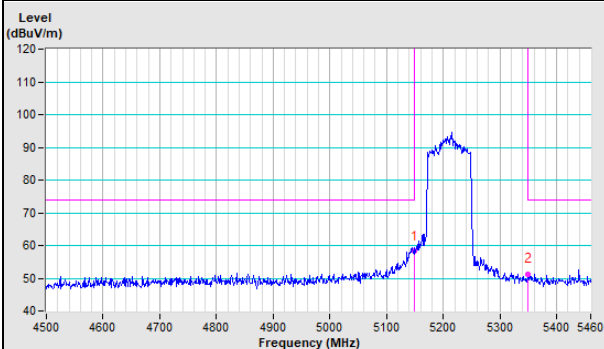
#### Horizontal (Peak)



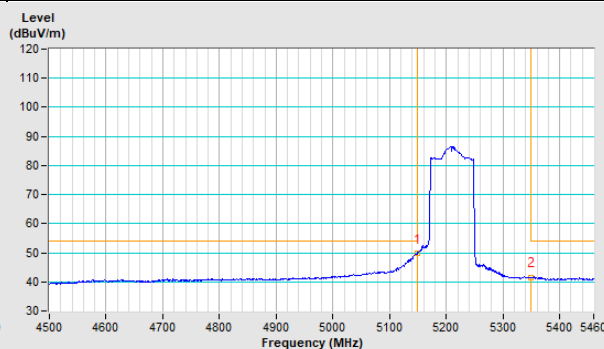
#### Horizontal (Average)



#### Vertical (Peak)

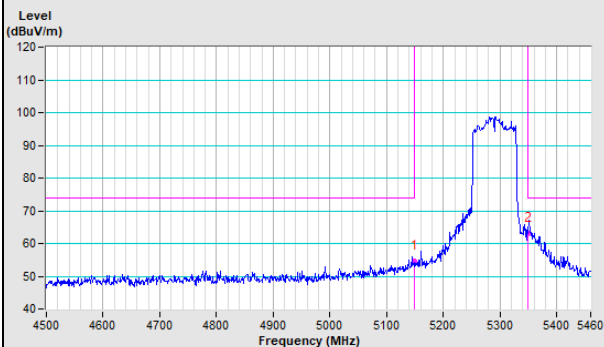


#### Vertical (Average)

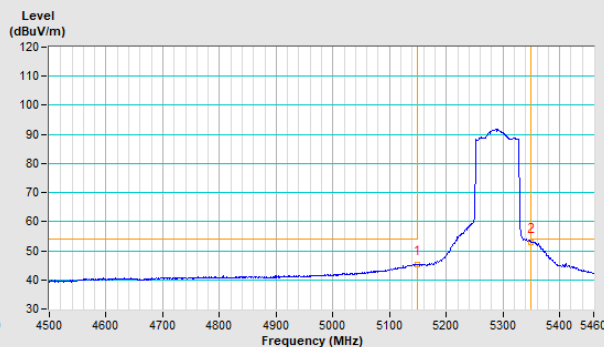


### 802.11ac (VHT80) Channel 58

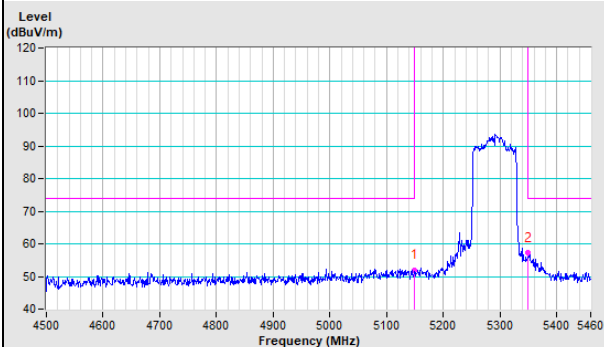
#### Horizontal (Peak)



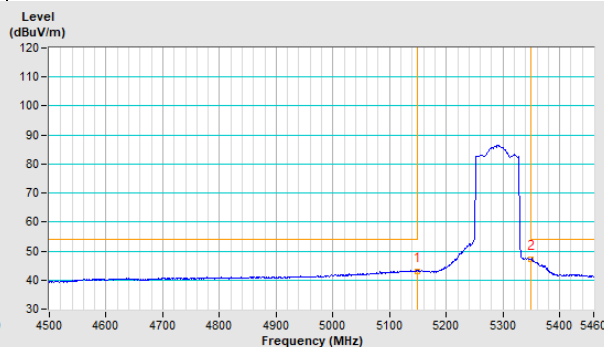
#### Horizontal (Average)

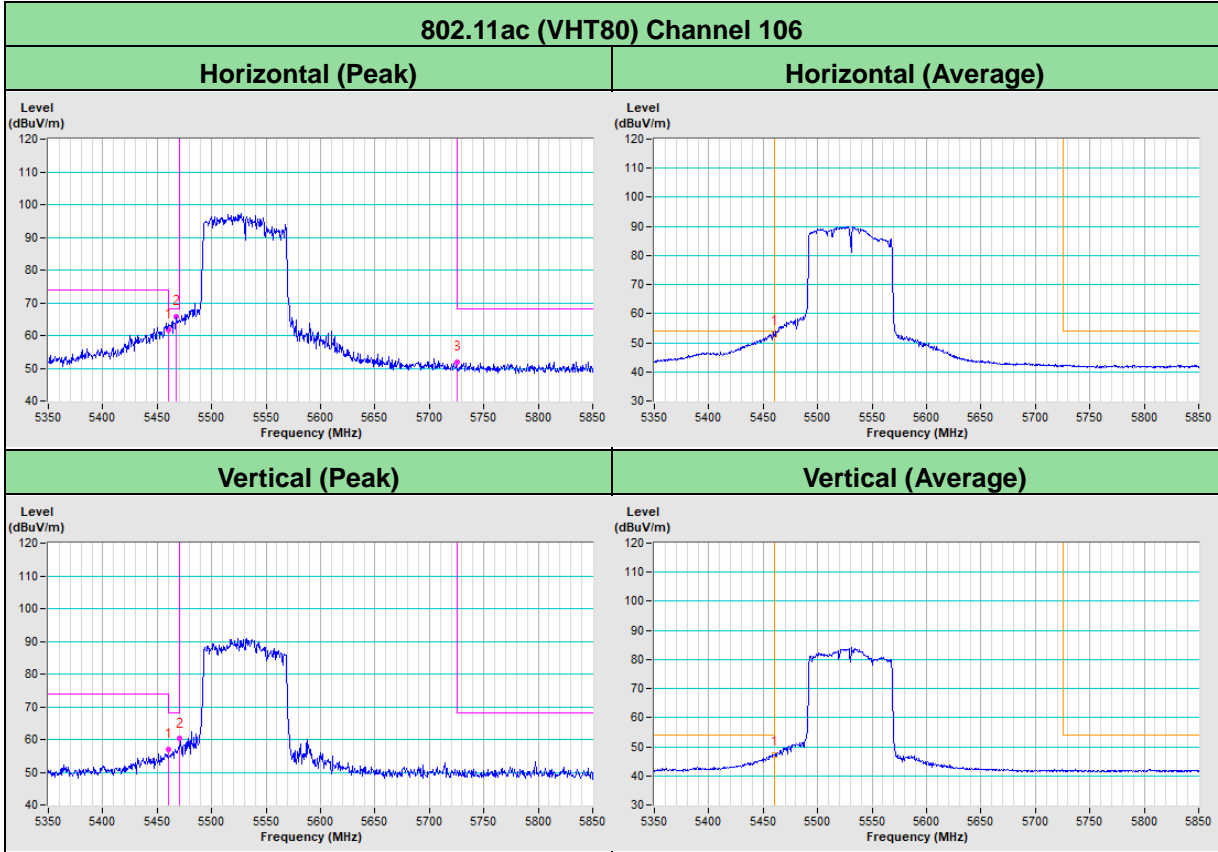


#### Vertical (Peak)



#### Vertical (Average)







## Appendix – Information of the Testing Laboratories

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

If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

**Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

--- END ---