

FCC Test Report

Product Name : Tablet
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO

Applicant : MITAC COMPUTING TECHNOLOGY
CORPORATION

Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist.,
TAOYUAN, 33383 Taiwan

Date of Receipt : Apr. 06, 2020
Issued Date : Mar. 17, 2022
Report No. : 2040094R-E3032110125
Report Version : V2.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.

Test Report Certification



Product Name : Tablet
Applicant : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN,
33383 Taiwan
Manufacturer : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN,
33383 Taiwan
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO
EUT Voltage : AC 120 ~ 240V, 50-60Hz (Adapter)
DC 7.6V (Battery)
Testing Voltage : AC 120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township,
Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



(Amelia Wu / Project Specialist)

Approved By :



(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 07, 2020
V2.0	1. Revising the antenna information. 2. Adding the power adapter and power cord (for docking station or extension cover). After evaluating, it was re-test for AC Power Line Conducted Emission and Radiated Emission Below 1 GHz.	Mar. 17, 2022

TABLE OF CONTENTS

Description	Page
1. General Information.....	6
1.1. EUT Description.....	6
1.2. Test Mode	8
1.3. Comments and Remarks	9
1.4. Tested System Details	10
1.5. Configuration of tested System	10
1.6. EUT Operation of during Test.....	11
1.7. Test Facility	12
1.8. List of Test Equipment.....	13
1.9. Measurement Uncertainty	15
1.10. Duty Cycle	16
2. Antenna Requirements	18
3. AC Power Line Conducted Emission	19
3.1. Test Setup.....	19
3.2. Test Limit	19
3.3. Test Procedure.....	20
3.4. Test Specification	20
3.5. Test Result of AC Power Line Conducted Emission	21
4. Emission Bandwidth	27
4.1. Test Setup.....	27
4.2. Test Limit	27
4.3. Test Procedure.....	27
4.4. Test Specification	27
4.5. Test Result of Emission Bandwidth	28
5. Maximum Conducted Output Power	34
5.1. Test Setup.....	34
5.2. Test Limit	34
5.3. Test Procedure.....	34
5.4. Test Result of Maximum Conducted Output Power	35
6. Maximum Power Spectral Density	36
6.1. Test Setup.....	36
6.2. Test Limit	36
6.3. Test Procedure.....	36
6.4. Test Result of Maximum Power Spectral Density	37
7. Radiated Emission.....	40
7.1. Test Setup.....	40
7.2. Test Limit	41
7.3. Test Procedure.....	42
7.4. Test Specification	42
7.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)	43
7.6. Test Result of Radiated Emissions (1 GHz ~ 10 th Harmonic).....	49

8.	Radiated Emission Band Edge	85
8.1.	Test Setup.....	85
8.2.	Test Limit	85
8.3.	Test Procedure.....	87
8.4.	Test Specification	87
8.5.	Test Result of Radiated Emission Band Edge	88
Appendix A.....		142
	Test Setup Photograph	142

1. General Information

1.1. EUT Description

Product Name	Tablet	
Brand Name	MiTAC	
Model No.	Cappuccino-Tablet	
Frequency Range / Channel Number	IEEE 802.11a / IEEE 802.11n (20 MHz) / IEEE 802.11ac (20 MHz)	5180 ~ 5240 MHz / 4 Channels 5745 ~ 5825 MHz / 5 Channels
	IEEE 802.11n (40 MHz) / IEEE 802.11ac (40 MHz)	5190 ~ 5230 MHz / 2 Channels 5755 ~ 5795 MHz / 2 Channels
	IEEE 802.11ac (80 MHz)	5210 MHz / 1 Channel 5775 MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	OFDM
Data Rate	IEEE 802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0 ~ MCS 15 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0 ~ MCS 9 and bandwidth defined in 802.11ac
TPC Function	<input type="checkbox"/> With TPC Function	
	<input checked="" type="checkbox"/> Without TPC Function	
Weather Band (5600 ~ 5650 MHz)	<input type="checkbox"/> With 5600 ~ 5650 MHz	
	<input checked="" type="checkbox"/> Without 5600 ~ 5650 MHz	

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Power Adapter with power cord (for EUT)	APD	NB65B19	INPUT: 100 ~ 240V,50/60Hz, 1.6A OUTPUT: 19V, 3.42A Cable In: Non-Shielded, 0.9 m Cable Out: Non-Shielded, 1.7m
2	Power Adapter (for Docking Station or Extension Cover)	DELTA	DPS-180AB-21	INPUT: 100 ~ 240V,50/60Hz, 3-1.5A OUTPUT: 24V, 7.5A Cable Out: Non-Shielded, 1.2m with 2 ferrite cores
3	Power cord (for Docking Station or Extension Cover)	DELTA	CCBL-0317	Cable In: Non-Shielded, 1.7 m
4	Battery	Getac	BP-CAP-21/2570 VKB	7.6V, 2570mAh, 19.532Wh
No.	Equipment Name	Brand Name		Model No.
5	Docking Station	Cappuccino		Cappuccino-Docking Station
6	Extension Cover	Cappuccino		Cappuccino-Extension Cover
7	Charging Cradle	Cappuccino		Cappuccino-Charging Cradle
No.	Equipment Name	Remark		
8	Strap	1Pcs		

Antenna Information						
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Maximum Antenna Gain (dBi)	Directional Gain (dBi)
0	ARISTOTLE	RFA-25-AP957-MAIN	PIFA Antenna	4.06	4.06	7.01
1	ARISTOTLE	RFA-25-AP957-AUX	PIFA Antenna	3.94		

For IEEE 802.11a/n/ac Mode: (2TX, 2RX)

Both Ant. 0 and Ant. 1 can be used as transmitting/receiving antennas, and them can transmit/receive signal simultaneously.

IEEE 802.11a & IEEE 802.11n/ac (20 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	-	-	-	-	-	-

IEEE 802.11n/ac (40 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	-	-	-	-

Note:

1. Regards to the frequency band operation; the lowest middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. The above EUT information is declared by the manufacturer.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit_ Adapter Mode 2: Transmit_ Docking Station Mode 3: Transmit_ Extension Cover
-----------	---

Test Items	Test Mode	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1, Mode 2, Mode 3	11ac (20MHz)	149	0+1	Pass
Emission Bandwidth	Mode 1	11a	36/44/48/149/157/165	0, 1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0, 1	Pass
		11ac (40 MHz)	38/46/151/159	0, 1	Pass
		11ac (80 MHz)	42/155	0, 1	Pass
Maximum Conducted Output Power	Mode 1	11a	36/44/48/149/157/165	0+1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Maximum Power Spectral Density	Mode 1	11a	36/44/48/149/157/165	0+1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Radiated Emission Below 1 GHz	Mode 1, Mode 2, Mode 3	11ac (20MHz)	149	0+1	Pass
Radiated Emission Above 1 GHz	Mode 3	11a	36/44/48/149/157/165	0+1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Radiated Emission Band Edge	Mode 3	11a	36/44/48/149/157/165	0+1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst case of data rate for 802.11a is 6 Mbps, for 802.11ac (20 MHz)/802.11ac (40 MHz)/802.11ac (80 MHz) are MCS 0, NSS1.
3. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
4. The EUT was investigated in five modes X axis, Y axis, Z axis, docking station, and extension cover. Pre-scan radiated emission and radiated emission band edge has been determined by the extension cover mode (the worst-case).

1.3. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system.

For Mode 1: Transmit_ Adapter

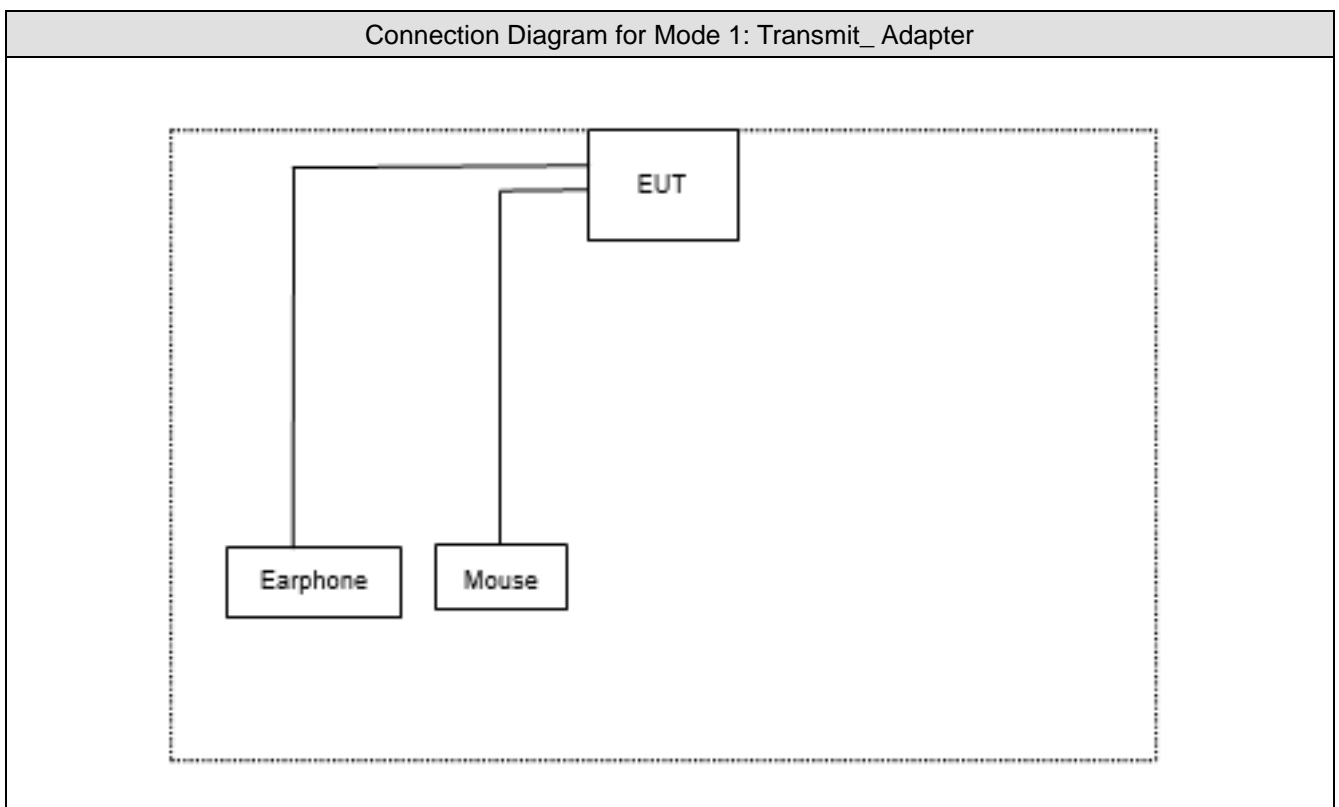
	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Earphone	ASUS	3.5mm	N/A

For Mode 2: Transmit_ Docking Station / Mode 3: Transmit_ Extension Cover

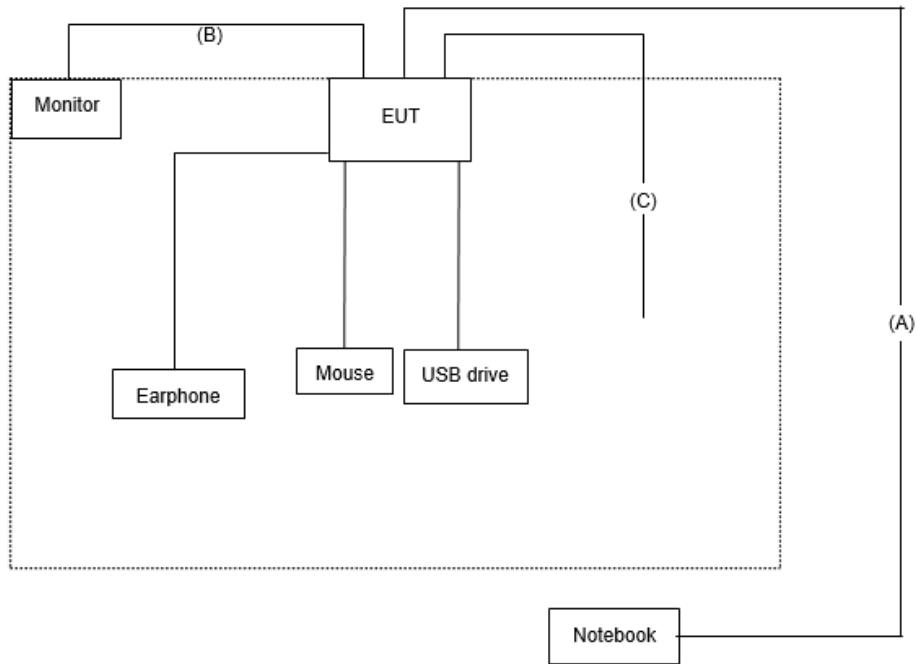
	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Monitor	Philips	223V5LHSB2	QMZ081201587
3	USB drive	Verbatim	OTG Tiny	N/A
4	Earphone	ASUS	3.5mm	N/A
5	Notebook	DELL	Latitude E6320	8208580717

1.5. Configuration of tested System

Connection Diagram for Mode 1: Transmit_ Adapter



Connection Diagram for Mode 2: Transmit_ Docking Station & Mode / 3: Transmit_ Extension Cover



Signal Cable Type		Signal cable Description
A	Ethernet cable	Non-Shielded, 2m
B	HDMI cable	Shielded, 2m
C	RS232 cable	Shielded, 2m

1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Execute control command by software "QRCT v3.0.169.0".
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit and receive continuously.
5	Verify that device is working properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	19.4	Ling Chen	2022/02/21	SR2-H
Humidity (%RH)		59			
Temperature (°C)	99% & 26dB & DTS Bandwidth	23	Clemens Fang	2020/05/15 ~ 2020/05/18	SR12-H
Humidity (%RH)		56 ~ 57			
Temperature (°C)	Maximum Conducted Output Power	23	Clemens Fang	2020/05/18	SR12-H
Humidity (%RH)		57			
Temperature (°C)	Peak Power Spectral Density	23	Clemens Fang	2020/05/15	SR12-H
Humidity (%RH)		56			
Temperature (°C)	Radiated Emission Below 1GHz	22.3	Ling Chen	2022/02/17	CB4-H
Humidity (%RH)		53			
Temperature (°C)	Radiated Emission Above 1GHz	25	Lion Wang	2020/04/28 ~ 2020/04/30	CB4-H
Humidity (%RH)		51			
Temperature (°C)	Radiated Emission Band Edge	22	Lion Wang	2020/04/24	CB4-H
Humidity (%RH)		54			

Note: Test site information refers to Laboratory Information.

USA : **FCC Registration Number: TW3024**
Canada : **CAB identifier : TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

1.8. List of Test Equipment

SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2021/12/27	2022/12/26
EMI Test Receiver	R&S	ESR3	102608	2021/06/03	2022/06/02
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07
Coaxial Cable(9 m)	Harbour	RG-400	SR2-H	2021/08/15	2022/08/14
DEKRA Testing System	DEKRA	Version 2.0	SR2-H	N/A	N/A

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
Power Meter	Keysight	8990B	MY51000248	2020/05/20	2021/05/21
Power Sensor	Keysight	N1923A	MY57240005	2020/05/20	2021/05/21

CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal Analyzer	R&S	FSVA40	101455	2021/10/22	2022/10/21
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	2021/05/28	2022/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09	2021/03/08
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC01820I	980364	2021/08/27	2022/08/26
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	EMEC	EM01G18GA	060835	2021/07/12	2022/07/11
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/12/24	2022/12/23
Band Reject Filter	Micro-Tronics	BRM50716	G089	2020/03/18	2021/03/17
Coaxial Cable(19m)	Suhner	SF102_SF104_SF106	CB4_2	2019/07/25	2020/07/24
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2021/08/09	2022/08/08
EMI system	DEKRA	Version 1.0	CB4-H	N/A	N/A
EMI Test Receiver	R&S	ESR7	102260	2021/12/22	2022/12/21
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2021/09/06	2022/09/05
DEKRA Testing System	DEKRA	Version 2.0	CB4-H	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.10 dB
99% & 26dB & DTS Bandwidth	± 50 Hz
Maximum Conducted Output Power	± 1.27 dB
Maximum Power Spectral Density	± 1.27 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.65 dB above 1 GHz
Radiated Emission Band Edge	± 3.65 dB above 1 GHz

1.10. Duty Cycle

Modulation	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.055	2.164	94.96	0.22	0.487
802.11ac (20 MHz)	1.914	2.022	94.66	0.24	0.522
802.11ac (40 MHz)	0.946	1.042	90.77	0.42	1.057
802.11ac (80 MHz)	0.464	0.559	83.05	0.81	2.155

Note:

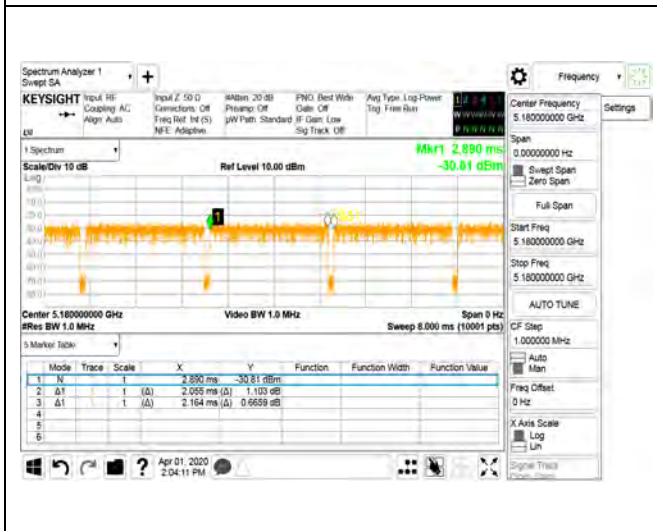
Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11a



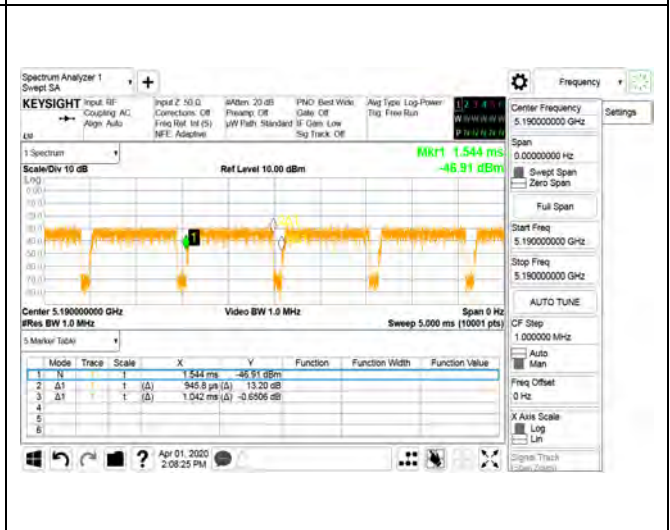
802.11ac (20 MHz)



802.11ac (40 MHz)



802.11ac (80 MHz)

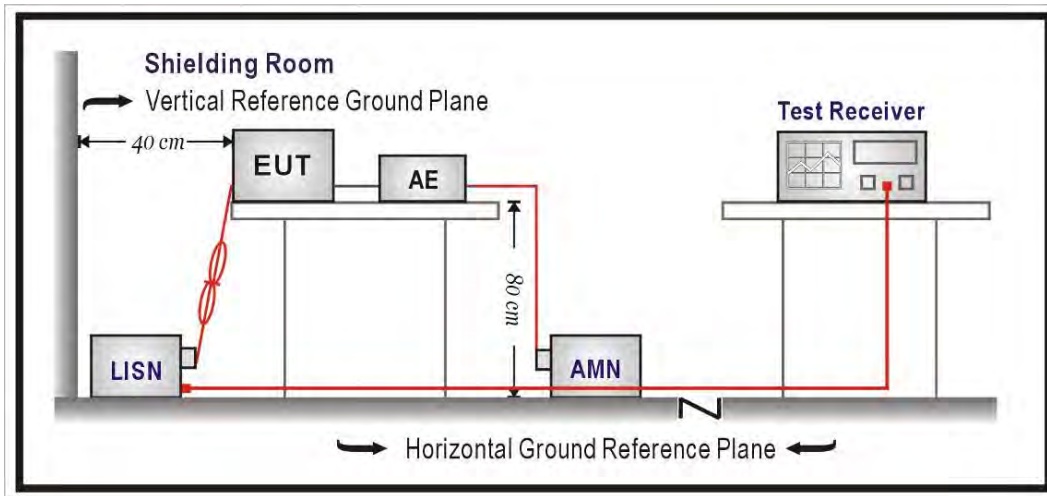


2. Antenna Requirements

According to FCC 47CFR 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

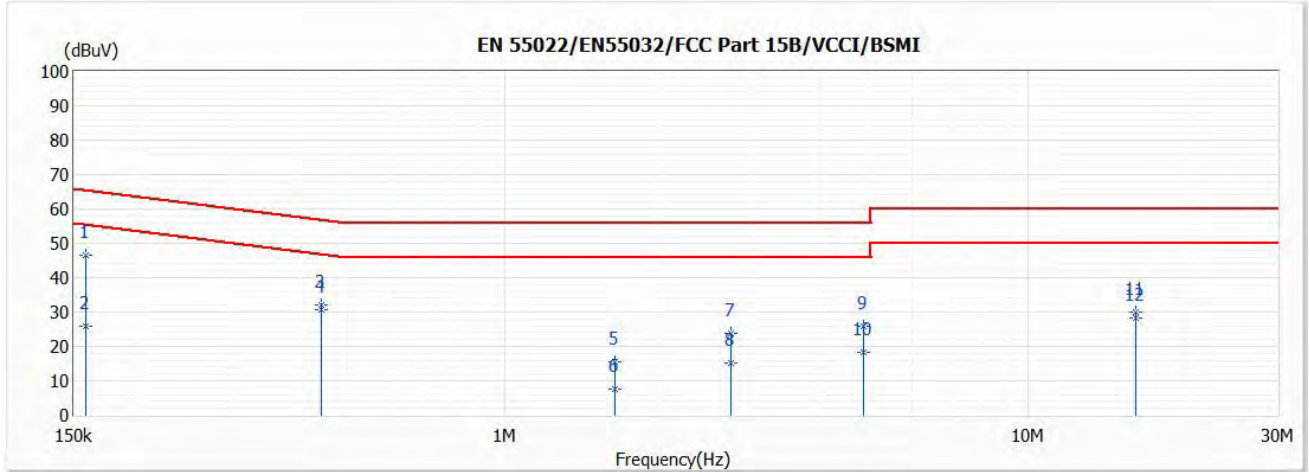
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

3.5. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: Transmit_Adapter	Phase	Line
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		

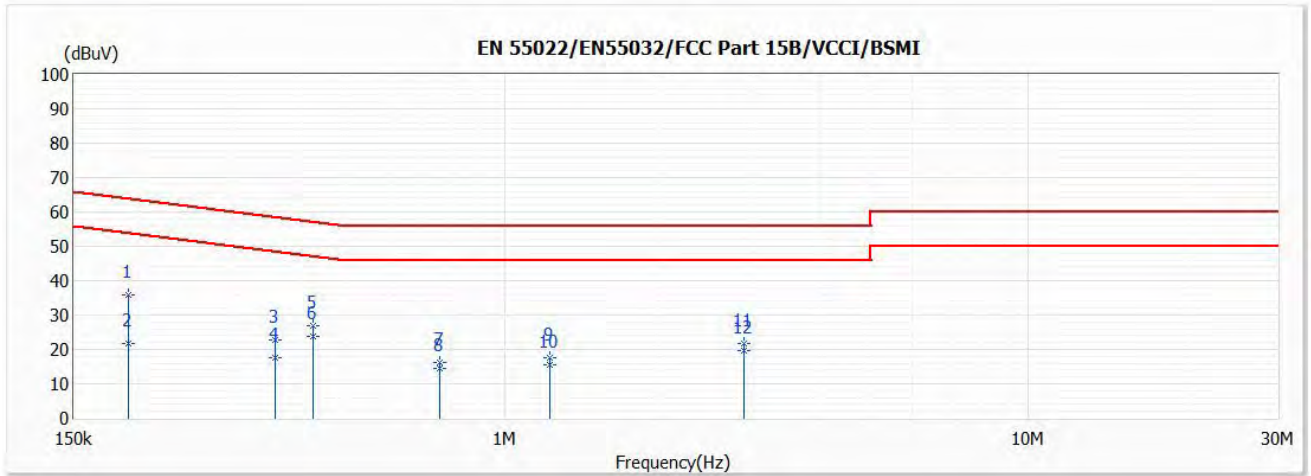


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	46.63	65.59	-18.96	37.00	9.63	QP
2	0.158	26.02	55.59	-29.57	16.39	9.63	AV
3	0.445	32.19	56.96	-24.77	22.53	9.66	QP
*4	0.445	30.84	46.96	-16.12	21.18	9.66	AV
5	1.624	15.52	56.00	-40.48	5.76	9.76	QP
6	1.624	7.73	46.00	-38.27	-2.03	9.76	AV
7	2.705	23.82	56.00	-32.18	14.00	9.82	QP
8	2.705	15.32	46.00	-30.68	5.50	9.82	AV
9	4.848	26.01	56.00	-29.99	16.09	9.92	QP
10	4.848	18.17	46.00	-27.83	8.25	9.92	AV
11	16.056	30.04	60.00	-29.96	19.77	10.27	QP
12	16.056	28.36	50.00	-21.64	18.09	10.27	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1: Transmit_Adapter	Phase	Neutral
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		

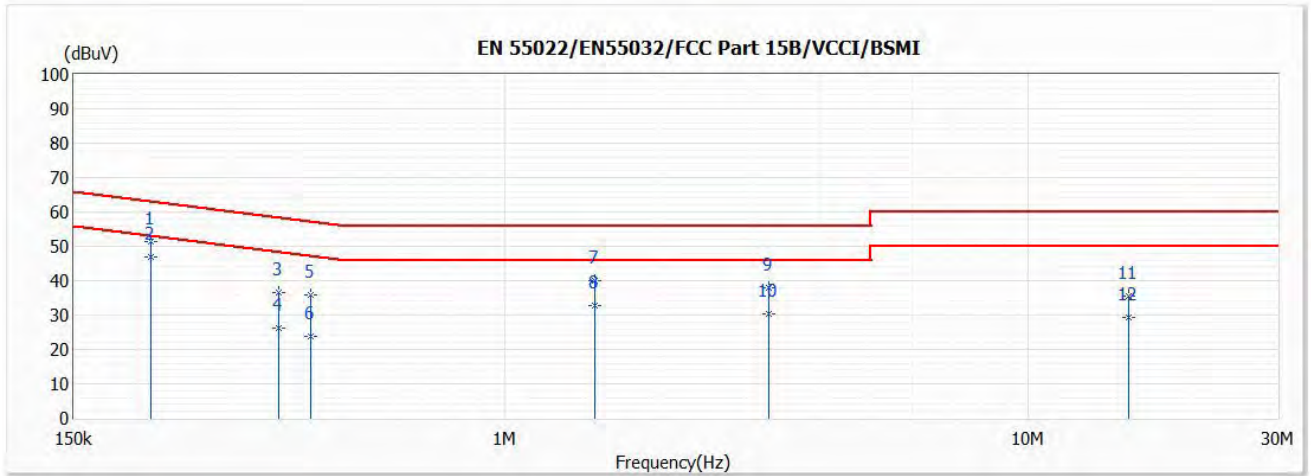


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.191	35.89	64.00	-28.11	26.27	9.62	QP
2	0.191	21.63	54.00	-32.37	12.01	9.62	AV
3	0.363	22.93	58.66	-35.73	13.28	9.65	QP
4	0.363	17.53	48.66	-31.13	7.88	9.65	AV
5	0.429	26.99	57.27	-30.28	17.33	9.66	QP
*6	0.429	23.95	47.27	-23.32	14.29	9.66	AV
7	0.749	16.10	56.00	-39.90	6.40	9.70	QP
8	0.749	14.46	46.00	-31.54	4.76	9.70	AV
9	1.219	17.42	56.00	-38.58	7.69	9.73	QP
10	1.219	15.51	46.00	-30.49	5.78	9.73	AV
11	2.867	21.59	56.00	-34.41	11.77	9.82	QP
12	2.867	19.62	46.00	-26.38	9.80	9.82	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: Transmit_ Docking Station	Phase	Line
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		

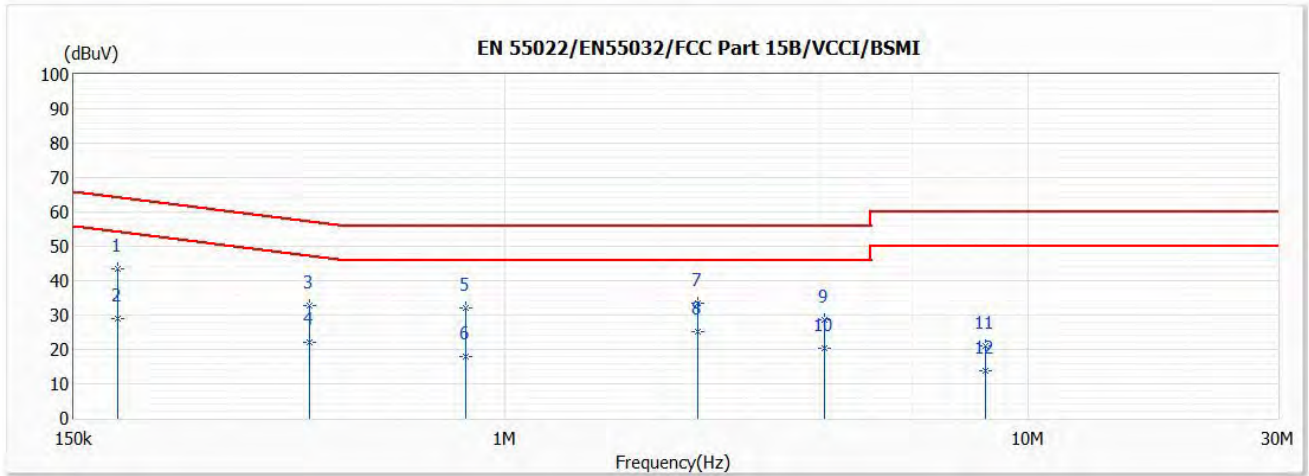


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.211	51.46	63.17	-11.71	41.82	9.64	QP
*2	0.211	46.94	53.17	-6.23	37.30	9.64	AV
3	0.369	36.69	58.52	-21.83	27.03	9.66	QP
4	0.369	26.15	48.52	-22.37	16.49	9.66	AV
5	0.425	35.77	57.34	-21.57	26.11	9.66	QP
6	0.425	23.94	47.34	-23.40	14.28	9.66	AV
7	1.485	40.09	56.00	-15.91	30.35	9.74	QP
8	1.485	32.79	46.00	-13.21	23.05	9.74	AV
9	3.188	37.78	56.00	-18.22	27.94	9.84	QP
10	3.188	30.26	46.00	-15.74	20.42	9.84	AV
11	15.577	35.48	60.00	-24.52	25.22	10.26	QP
12	15.577	29.45	50.00	-20.55	19.19	10.26	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: Transmit_ Docking Station	Phase	Neutral
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		

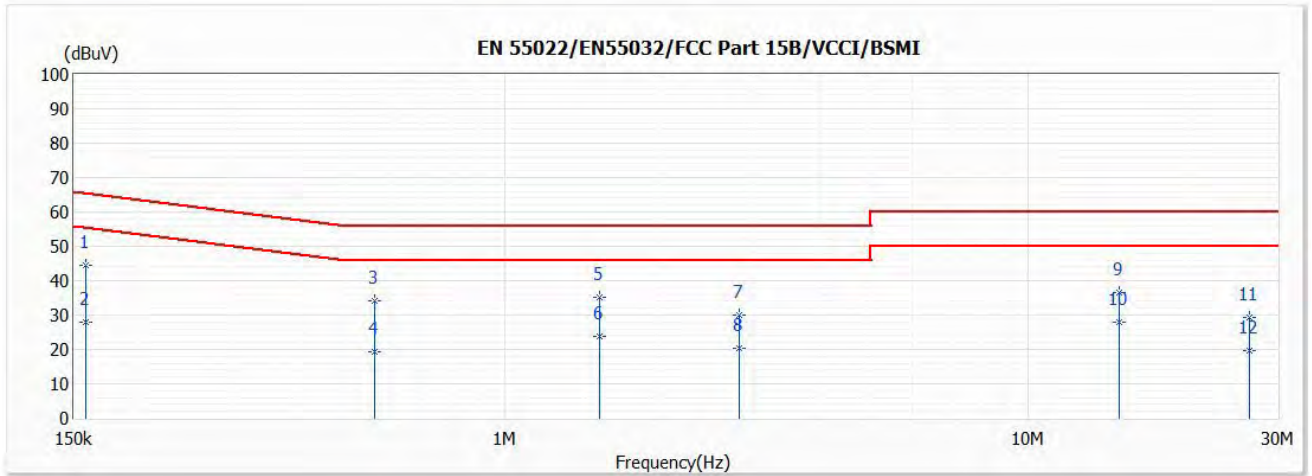


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.182	43.59	64.38	-20.79	33.97	9.62	QP
2	0.182	28.80	54.38	-25.58	19.18	9.62	AV
3	0.423	32.76	57.39	-24.63	23.10	9.66	QP
4	0.423	22.16	47.39	-25.23	12.50	9.66	AV
5	0.840	32.23	56.00	-23.77	22.52	9.71	QP
6	0.840	17.90	46.00	-28.10	8.19	9.71	AV
7	2.333	33.54	56.00	-22.46	23.75	9.79	QP
8	2.333	25.14	46.00	-20.86	15.35	9.79	AV
9	4.084	28.54	56.00	-27.46	18.66	9.88	QP
10	4.084	20.19	46.00	-25.81	10.31	9.88	AV
11	8.288	21.13	60.00	-38.87	11.06	10.07	QP
12	8.288	13.68	50.00	-36.32	3.61	10.07	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Phase	Line
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		

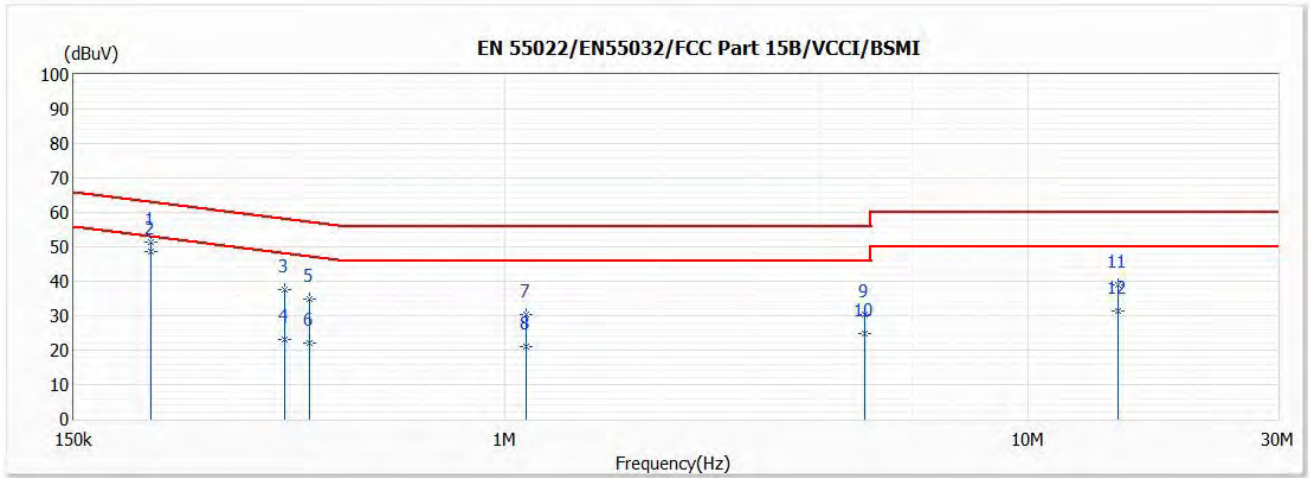


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	44.34	65.58	-21.24	34.71	9.63	QP
2	0.158	27.78	55.58	-27.80	18.15	9.63	AV
3	0.564	34.22	56.00	-21.78	24.54	9.68	QP
4	0.564	19.33	46.00	-26.67	9.65	9.68	AV
*5	1.516	35.28	56.00	-20.72	25.52	9.76	QP
6	1.516	23.92	46.00	-22.08	14.16	9.76	AV
7	2.808	29.87	56.00	-26.13	20.05	9.82	QP
8	2.808	20.29	46.00	-25.71	10.47	9.82	AV
9	14.913	36.68	60.00	-23.32	26.44	10.24	QP
10	14.913	27.88	50.00	-22.12	17.64	10.24	AV
11	26.413	29.38	60.00	-30.62	18.92	10.46	QP
12	26.413	19.64	50.00	-30.36	9.18	10.46	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Phase	Neutral
Test Condition	802.11ac (20 MHz) / Ant. 0 + Ant. 1 / 5745 MHz		



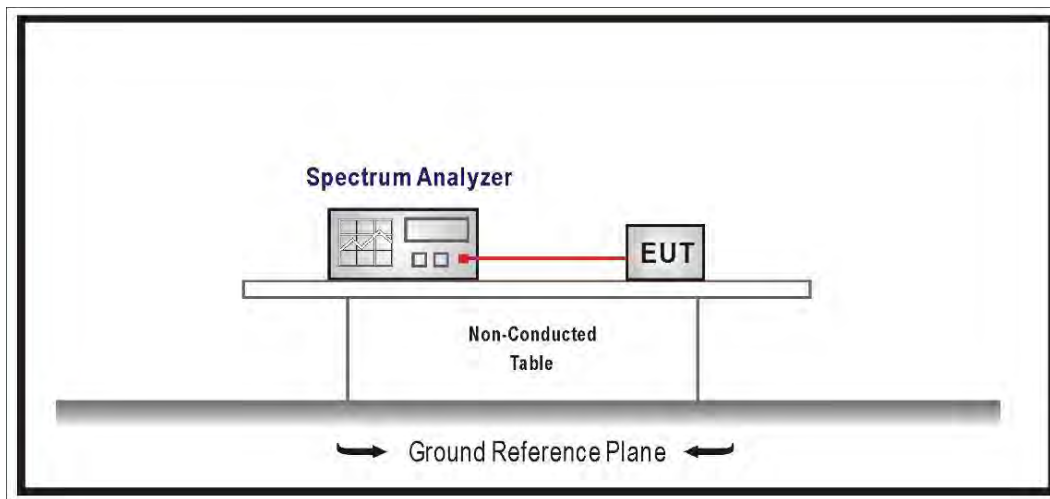
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.211	51.51	63.17	-11.66	41.88	9.63	QP
*2	0.211	48.79	53.17	-4.38	39.16	9.63	AV
3	0.378	37.63	58.31	-20.68	27.97	9.66	QP
4	0.378	22.99	48.31	-25.32	13.33	9.66	AV
5	0.423	34.82	57.39	-22.57	25.16	9.66	QP
6	0.423	21.92	47.39	-25.47	12.26	9.66	AV
7	1.096	30.35	56.00	-25.65	20.63	9.72	QP
8	1.096	21.09	46.00	-24.91	11.37	9.72	AV
9	4.881	30.50	56.00	-25.50	20.57	9.93	QP
10	4.881	24.68	46.00	-21.32	14.75	9.93	AV
11	14.857	38.92	60.00	-21.08	28.57	10.35	QP
12	14.857	31.32	50.00	-18.68	20.97	10.35	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

4. Emission Bandwidth

4.1. Test Setup



4.2. Test Limit

99% & 26dB Bandwidth : No Required

6dB Bandwidth \geq 500kHz

4.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V02r01

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100kHz, VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector.

4.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

4.5. Test Result of Emission Bandwidth

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11a	36	5180	16.446	16.429	20.490	19.930	-	
	44	5220	16.618	16.590	23.360	21.470	-	
	48	5240	16.473	16.619	21.050	23.630	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11a	149	5745	16.619	24.772	14.450	15.090	-	≥ 0.50
	157	5785	17.128	20.319	14.360	15.090	-	≥ 0.50
	165	5825	29.729	32.425	14.470	15.580	-	≥ 0.50

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (20 MHz)	36	5180	17.518	17.542	21.580	20.470	-	
	44	5220	17.543	17.548	20.770	20.790	-	
	48	5240	17.538	17.508	20.830	20.490	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (20 MHz)	149	5745	17.744	19.540	15.100	14.980	-	≥ 0.50
	157	5785	17.763	20.752	14.090	15.100	-	≥ 0.50
	165	5825	27.486	32.643	14.730	16.300	-	≥ 0.50

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (40 MHz)	38	5190	35.821	35.814	42.140	42.270	-	
	46	5230	36.226	38.209	64.970	76.760	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (40 MHz)	151	5755	35.965	36.528	32.580	35.090	-	≥0.50
	159	5795	36.296	48.019	35.060	34.990	-	≥0.50

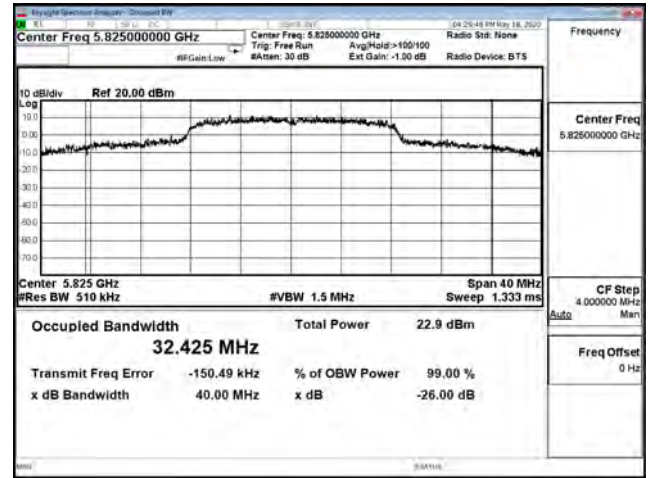
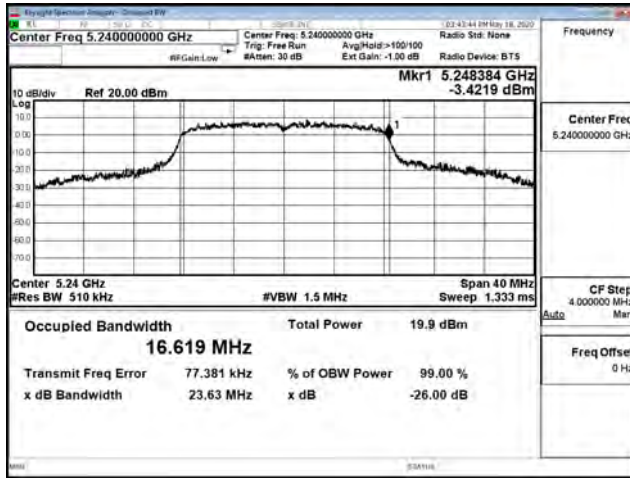
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (80 MHz)	42	5210	74.803	74.816	80.910	79.770	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (80 MHz)	155	5755	75.097	75.971	75.040	75.070	-	≥0.50

For 99% Bandwidth:

Spectrum plot of worst value

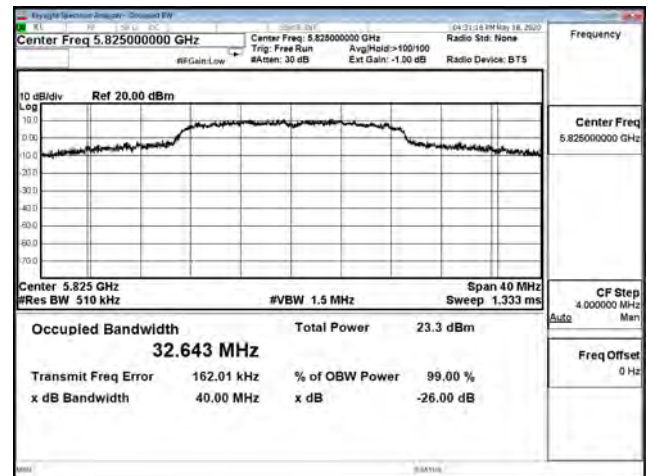
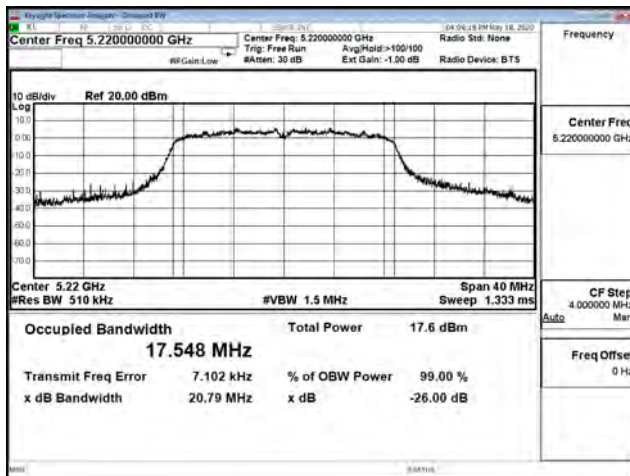
802.11a / Ant. 1 / 5240 MHz (U-NII-1)

802.11a / Ant. 1 / 5825 MHz (U-NII-3)



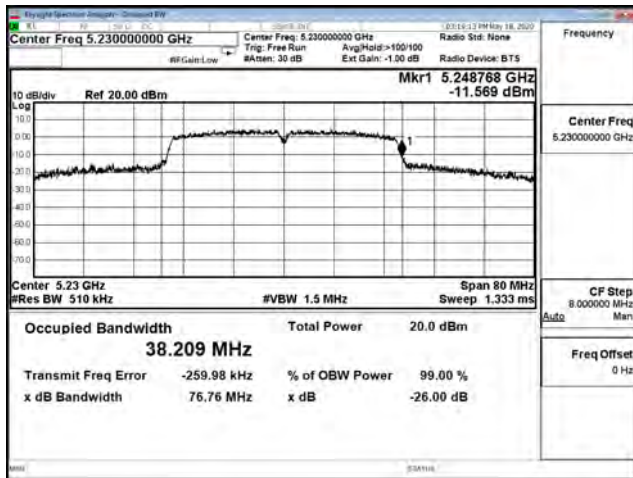
802.11ac (20 MHz) / Ant. 1 / 5520 MHz (U-NII-1)

802.11ac (20 MHz) / Ant. 1 / 5825 MHz (U-NII-3)

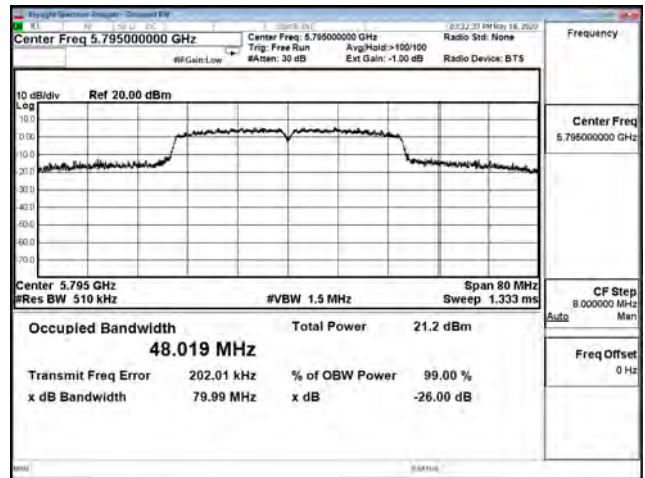


Spectrum plot of worst value

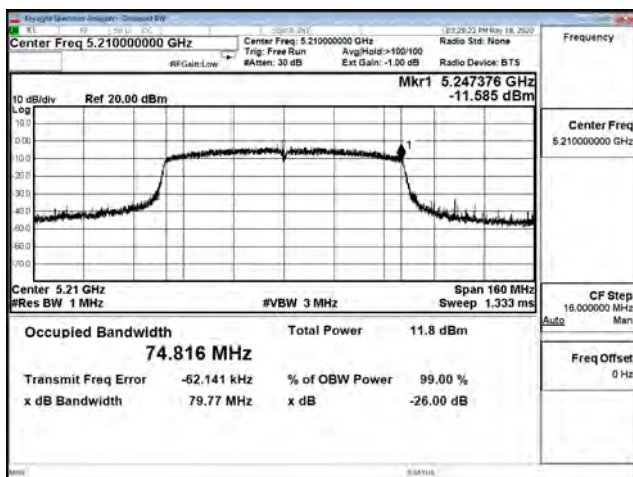
802.11ac (40 MHz) / Ant. 1 / 5230 MHz (U-NII-1)



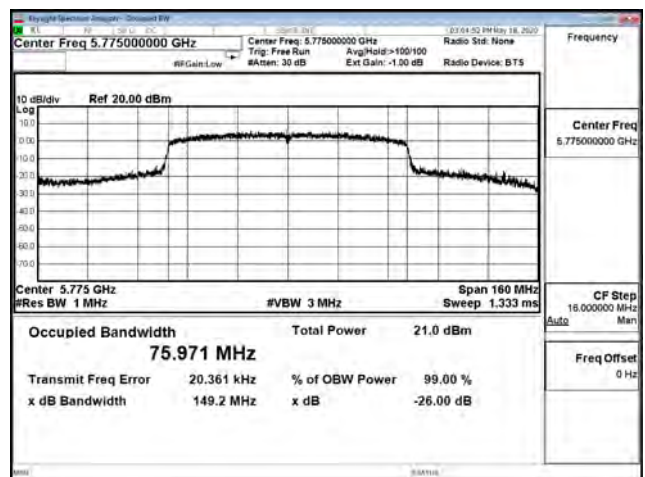
802.11ac (40 MHz) / Ant. 1 / 5795 MHz U-NII-3)



802.11ac (80 MHz) / Ant. 1 / 5210 MHz (U-NII-1)



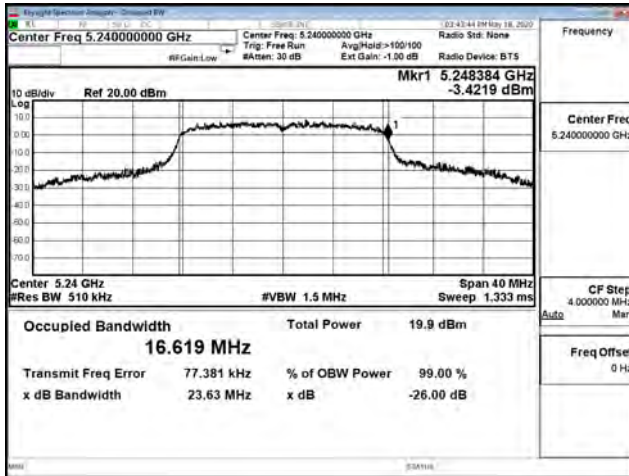
802.11ac (80 MHz) / Ant. 1 / 5775 MHz (U-NII-3)



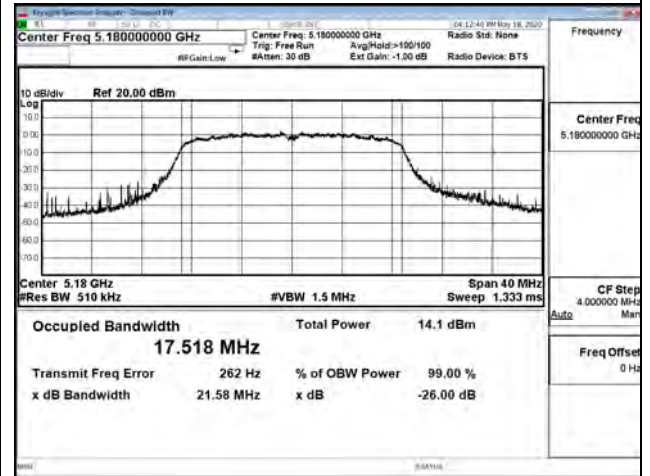
For 26dB Bandwidth:

Spectrum plot of worst value

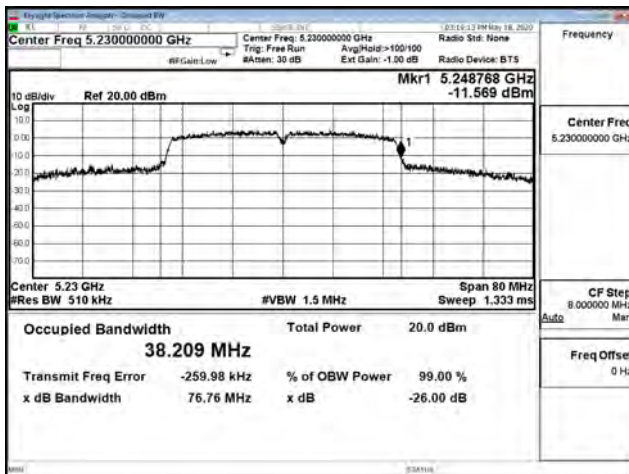
802.11a / Ant. 1 / 5240 MHz (U-NII-1)



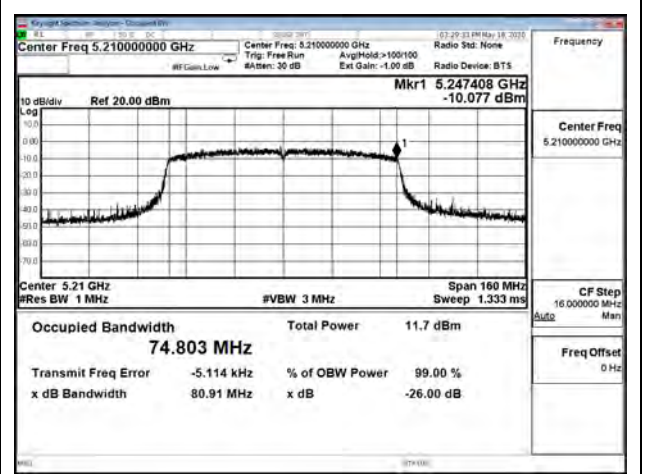
802.11ac (20 MHz) / Ant. 0 / 5180 MHz (U-NII-1)



802.11ac (40 MHz) / Ant. 1 / 5230 MHz (U-NII-1)



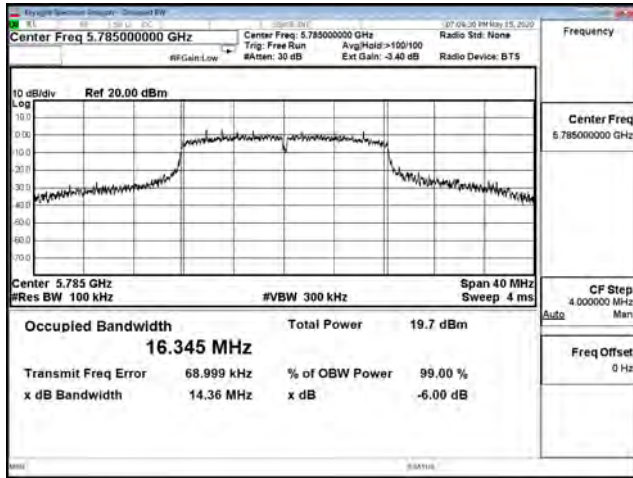
802.11ac (80 MHz) / Ant. 0 / 5210 MHz (U-NII-1)



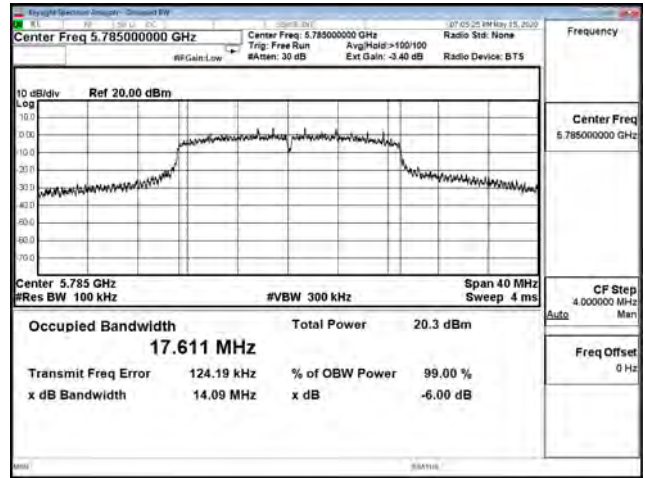
For DTS Bandwidth:

Spectrum plot of worst value

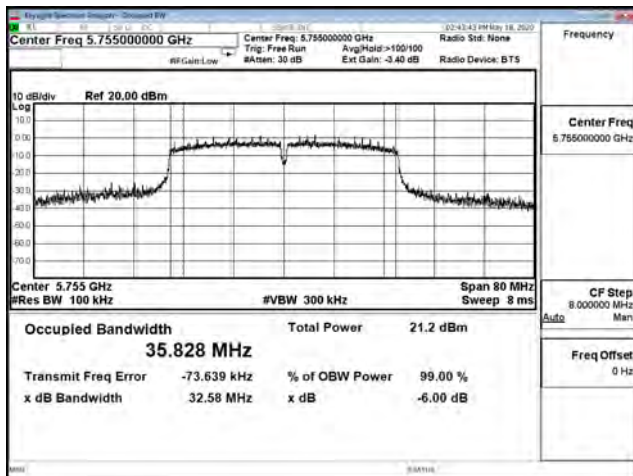
802.11a / Ant. 0 / 5785 MHz



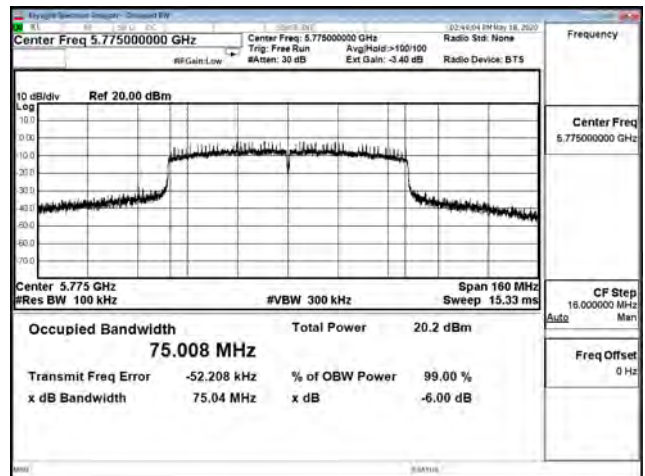
802.11ac (20 MHz) / Ant. 0 / 5785 MHz



802.11ac (40 MHz) / Ant. 0 / 5755 MHz

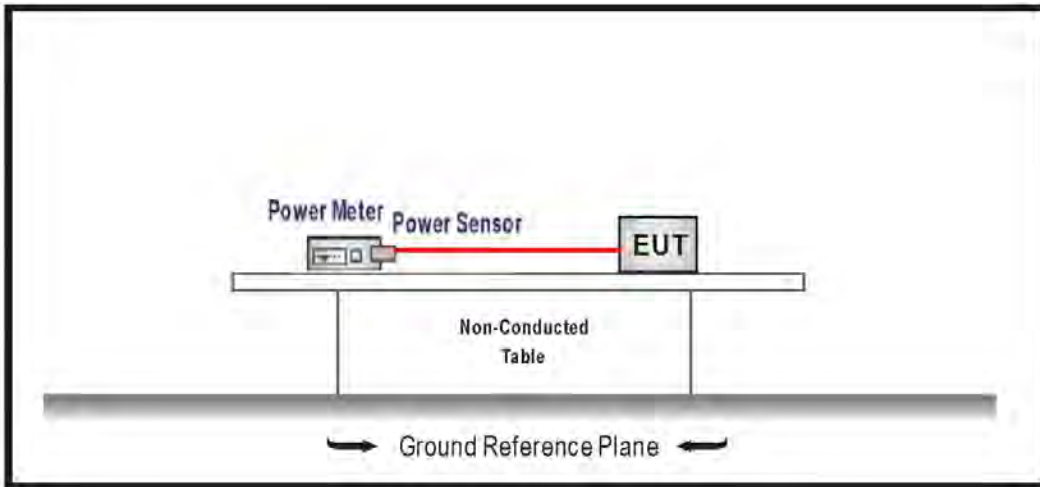


802.11ac (80 MHz) / Ant. 0 / 5775 MHz



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi. For client devices in the 5.15 ~ 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25 ~ 5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725 ~ 5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

5.3. Test Procedure

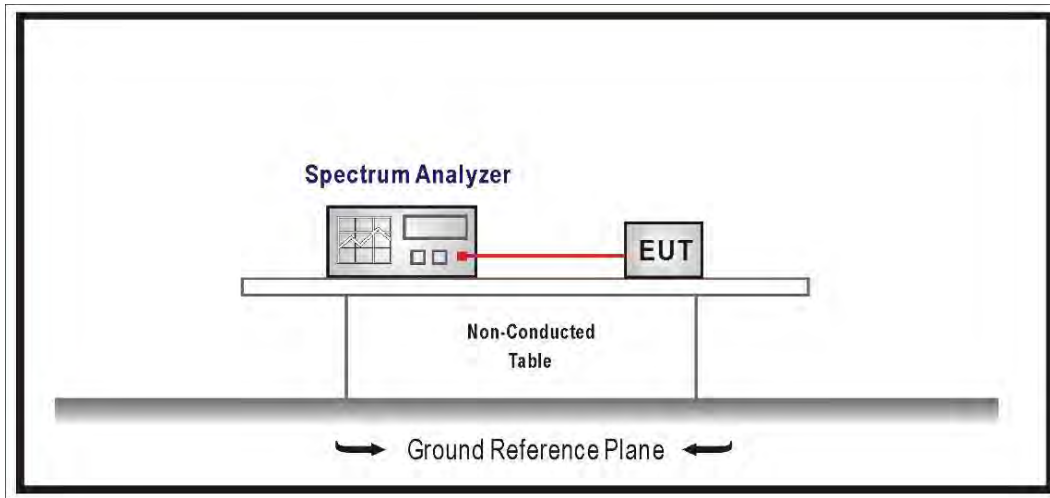
The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 V02r01 for compliance to FCC CFR Title 47 Part 15 Subpart E.

5.4. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11a	36	5180	7.370	7.720	10.559	≤ 30.00	Pass
	44	5220	7.480	7.820	10.664	≤ 30.00	Pass
	48	5240	7.740	7.970	10.867	≤ 30.00	Pass
	149	5745	7.780	7.830	10.815	≤ 30.00	Pass
	157	5785	7.230	7.750	10.508	≤ 30.00	Pass
	165	5825	7.020	7.740	10.405	≤ 30.00	Pass
802.11ac (20 MHz)	36	5180	7.680	7.960	10.833	≤ 30.00	Pass
	44	5220	7.370	7.700	10.548	≤ 30.00	Pass
	48	5240	7.720	7.970	10.857	≤ 30.00	Pass
	149	5745	7.690	7.720	10.715	≤ 30.00	Pass
	157	5785	7.470	7.740	10.617	≤ 30.00	Pass
	165	5825	6.890	7.570	10.254	≤ 30.00	Pass
802.11ac (40 MHz)	38	5190	7.670	7.960	10.828	≤ 30.00	Pass
	46	5230	7.660	7.980	10.833	≤ 30.00	Pass
	151	5755	7.590	7.940	10.779	≤ 30.00	Pass
	159	5795	7.750	7.840	10.806	≤ 30.00	Pass
802.11ac (80 MHz)	42	5210	6.040	6.170	9.116	≤ 30.00	Pass
	155	5775	6.690	7.910	10.353	≤ 30.00	Pass

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15 ~ 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the 5.25 ~ 5.35 GHz ,5470 ~ 5600 MHz and 5650 ~ 5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725 ~ 5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

6.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033.D02 V02r01 for compliance to FCC CFR Title 47 Part 15 Subpart E requirements.

For Band1 : Set RBW=1 MHz, VBW=3 MHz with RMS detector. The PPSD is the highest level found across the emission in any 1MHz band after 100 sweeps of averaging.

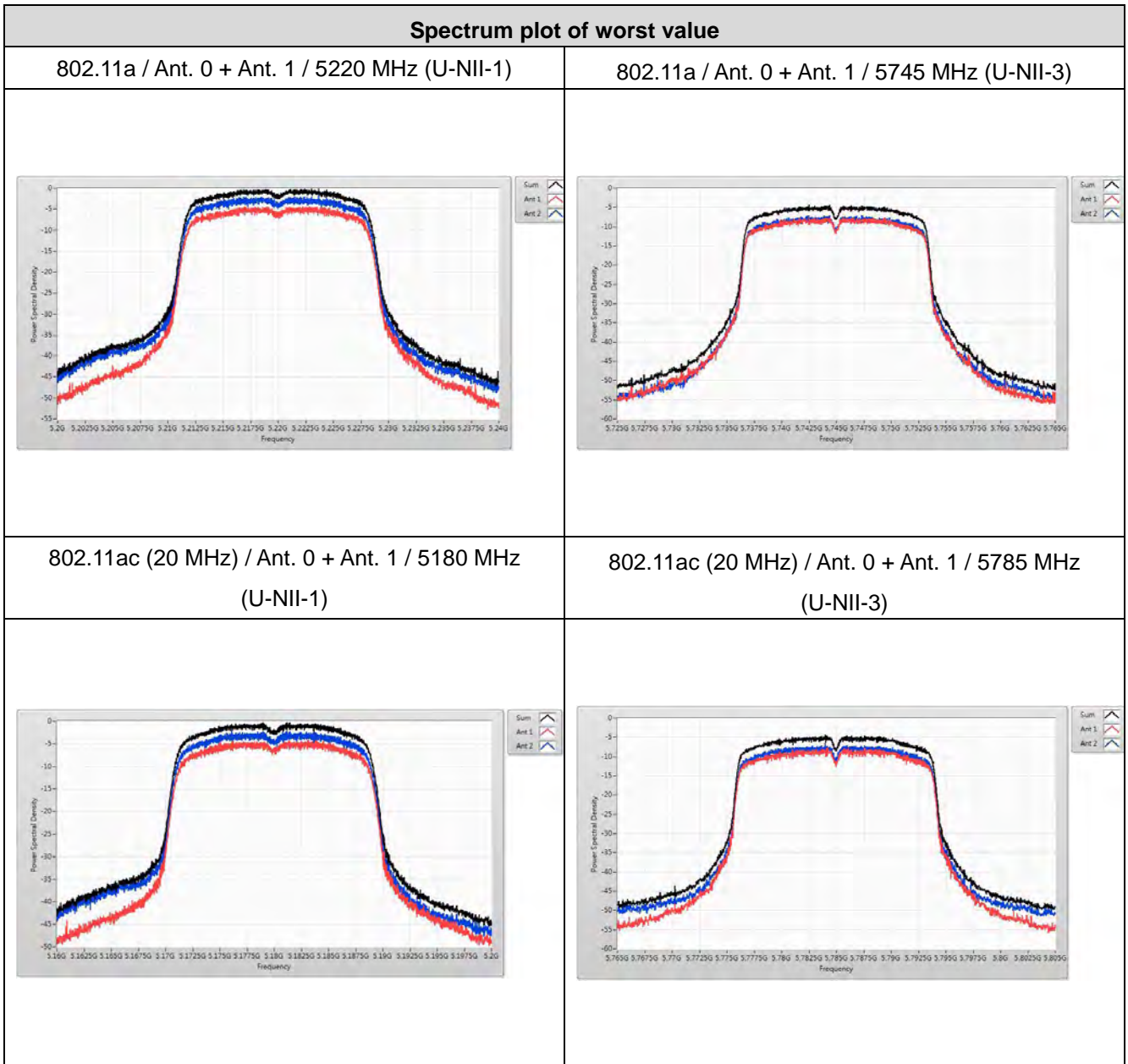
For Band4 : Set RBW=500 kHz, VBW=1.5 MHz with RMS detector. The PPSD is the highest level found across the emission in any 500 kHz band after 100 sweeps of averaging.

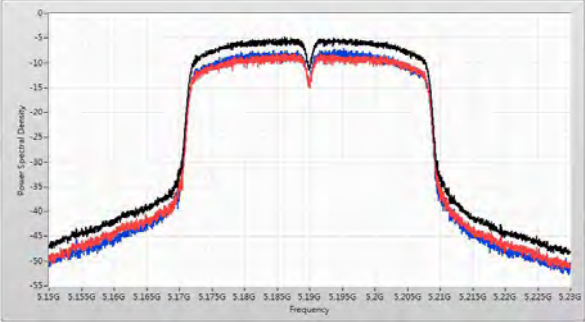
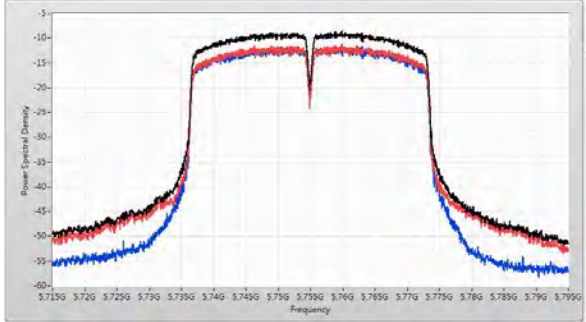
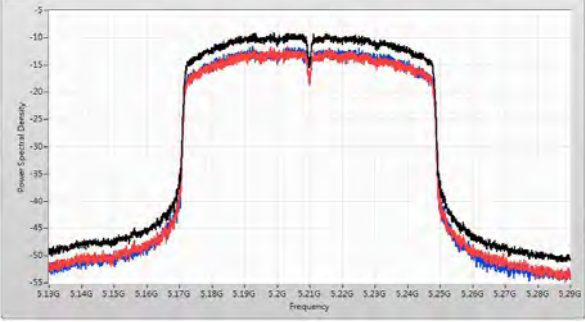
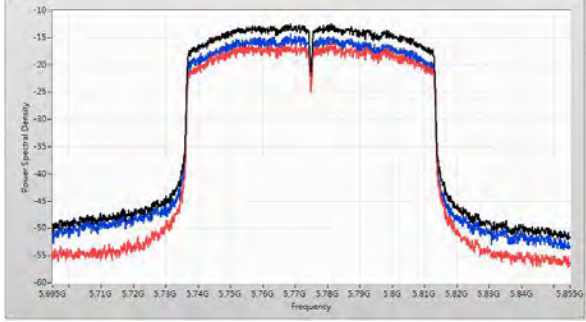
6.4. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11a	36	5180	-4.140	-3.740	-1.200	≤ 15.99	Pass
	44	5220	-4.330	-1.650	-0.150	≤ 15.99	Pass
	48	5240	-3.950	-3.890	-1.160	≤ 15.99	Pass
	149	5745	-7.450	-6.950	-4.350	≤ 28.99	Pass
	157	5785	-7.320	-7.150	-4.430	≤ 28.99	Pass
	165	5825	-8.290	-7.220	-5.030	≤ 28.99	Pass
802.11ac (20 MHz)	36	5180	-4.100	-2.030	-0.190	≤ 15.99	Pass
	44	5220	-4.130	-3.900	-1.460	≤ 15.99	Pass
	48	5240	-4.740	-4.230	-1.690	≤ 15.99	Pass
	149	5745	-7.530	-7.440	-4.660	≤ 28.99	Pass
	157	5785	-7.720	-6.470	-4.390	≤ 28.99	Pass
	165	5825	-7.940	-8.320	-5.190	≤ 28.99	Pass
802.11ac (40 MHz)	38	5190	-7.950	-7.110	-4.820	≤ 15.99	Pass
	46	5230	-7.770	-7.290	-4.910	≤ 15.99	Pass
	151	5755	-11.350	-11.310	-8.500	≤ 28.99	Pass
	159	5795	-11.810	-11.370	-8.770	≤ 28.99	Pass
802.11ac (80 MHz)	42	5210	-11.610	-11.510	-9.140	≤ 15.99	Pass
	155	5775	-15.680	-14.300	-12.480	≤ 28.99	Pass

Note:

- Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.
- Directional gain of 5GHz band 1= $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}] = 7.01\text{dBi} > 6\text{dBi}$, so limit= $17 - (7.01 - 6) = 15.99\text{dBm}$.
- Directional gain of 5GHz band 4= $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}] = 7.01\text{dBi} > 6\text{dBi}$, so limit= $30 - (7.01 - 6) = 28.99\text{dBm}$.

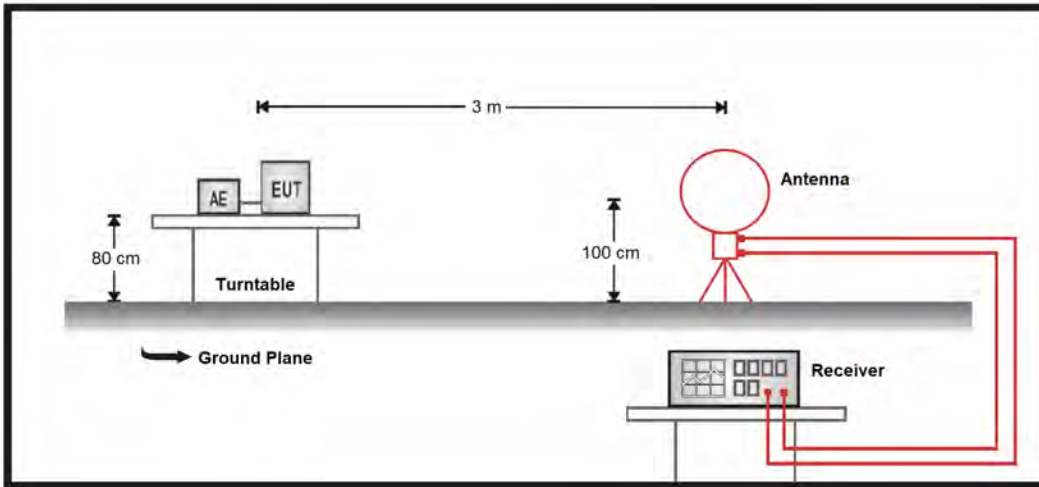


Spectrum plot of worst value	
802.11ac (40 MHz) / Ant. 0 + Ant. 1 / 5190 MHz (U-NII-1)	802.11ac (40 MHz) / Ant. 0 + Ant. 1 / 5755 MHz (U-NII-3)
	
802.11ac (80 MHz) / Ant. 0 + Ant. 1 / 5210 MHz (U-NII-1)	802.11ac (80 MHz) / Ant. 0 + Ant. 1 / 5775 MHz (U-NII-3)
	

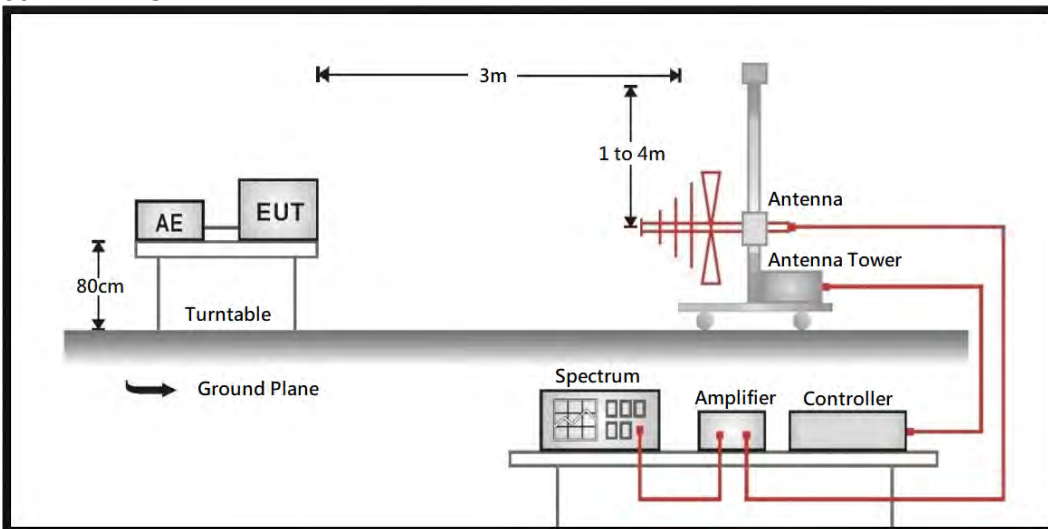
7. Radiated Emission

7.1. Test Setup

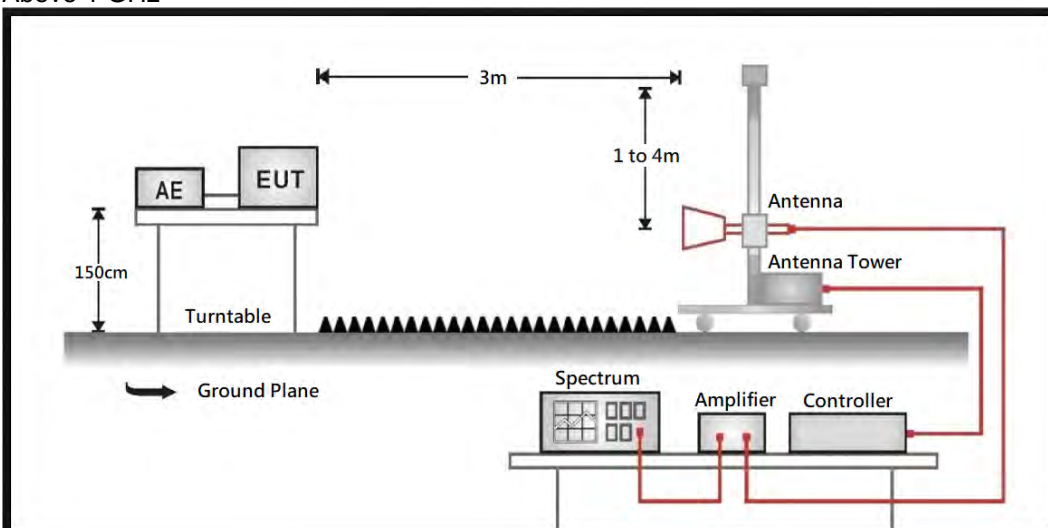
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

General Radiated Emission Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Unwanted Emission out of the restricted bands Test Limit

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.2
5250 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-27 ^{*1}	68.2 ^{*1}
	10 ^{*2}	105.2 ^{*2}
	15.6 ^{*3}	110.8 ^{*3}
	27 ^{*4}	122.2 ^{*4}

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

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

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

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

Remark:

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

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

7.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The additional latch filter below 1 GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz, above 1 GHz are 1 MHz.

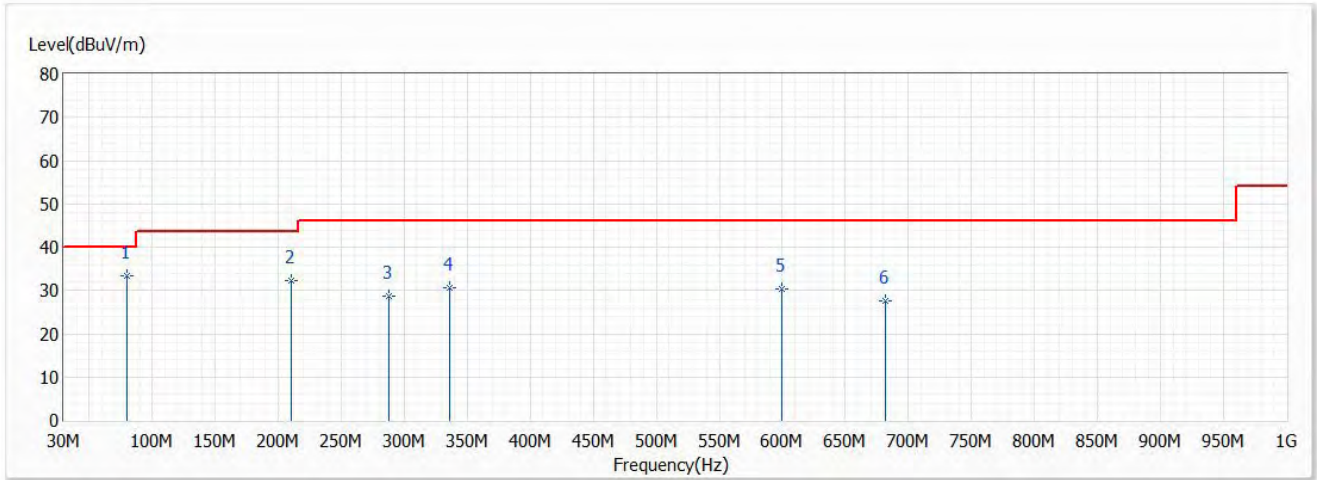
The frequency range from 30 MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

7.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

7.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

Test Mode	Mode 1: Transmit_Adapter	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		

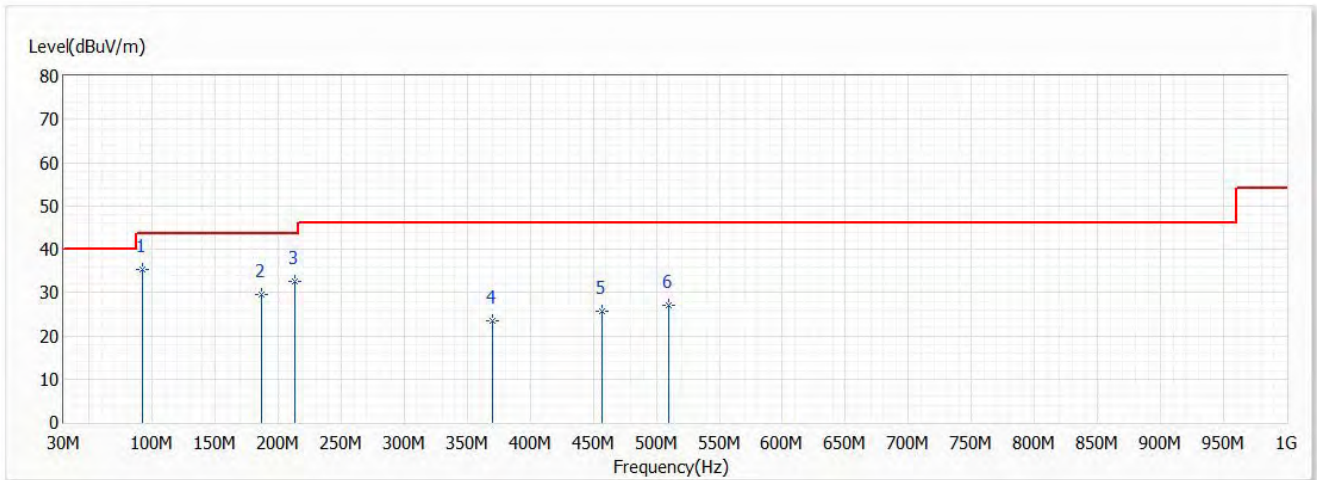


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	80.319	33.38	40.00	-6.62	40.67	-7.29	QP
2	210.663	32.18	43.50	-11.32	38.69	-6.51	QP
3	287.899	28.56	46.00	-17.44	31.11	-2.55	QP
4	336.156	30.74	46.00	-15.26	32.16	-1.42	QP
5	599.996	30.31	46.00	-15.69	25.15	5.16	QP
6	681.476	27.64	46.00	-18.36	21.65	5.99	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 1: Transmit_Adapter	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		

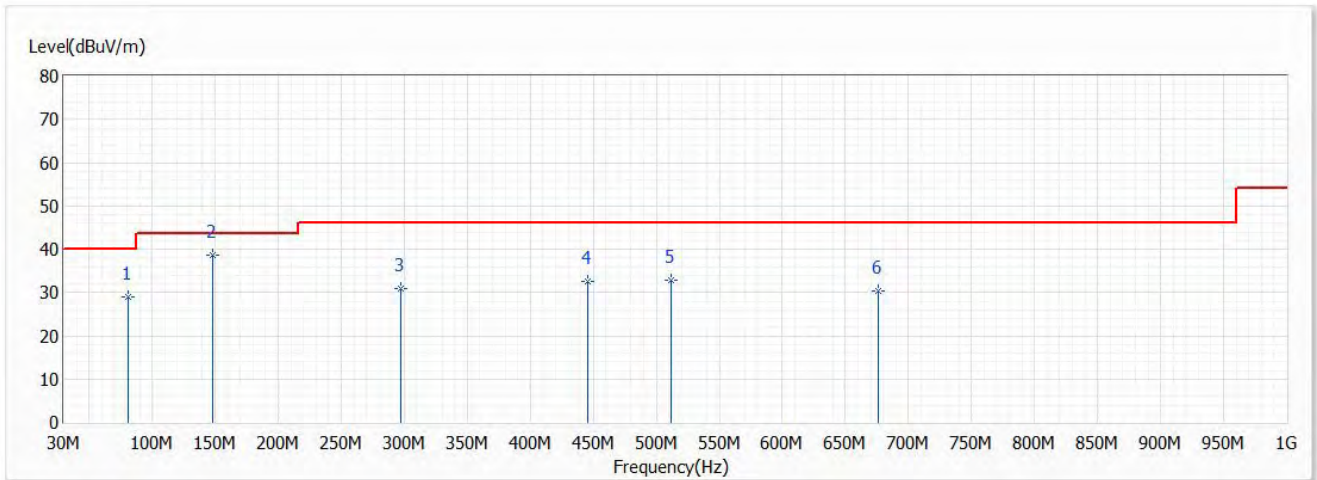


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	92.323	35.22	43.50	-8.28	44.03	-8.81	QP
2	186.898	29.48	43.50	-14.02	34.73	-5.25	QP
3	213.209	32.60	43.50	-10.90	39.10	-6.50	QP
4	370.349	23.56	46.00	-22.44	24.12	-0.56	QP
5	456.921	25.52	46.00	-20.48	23.63	1.89	QP
6	510.029	27.16	46.00	-18.84	24.22	2.94	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 2: Transmit_ Docking Station	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		

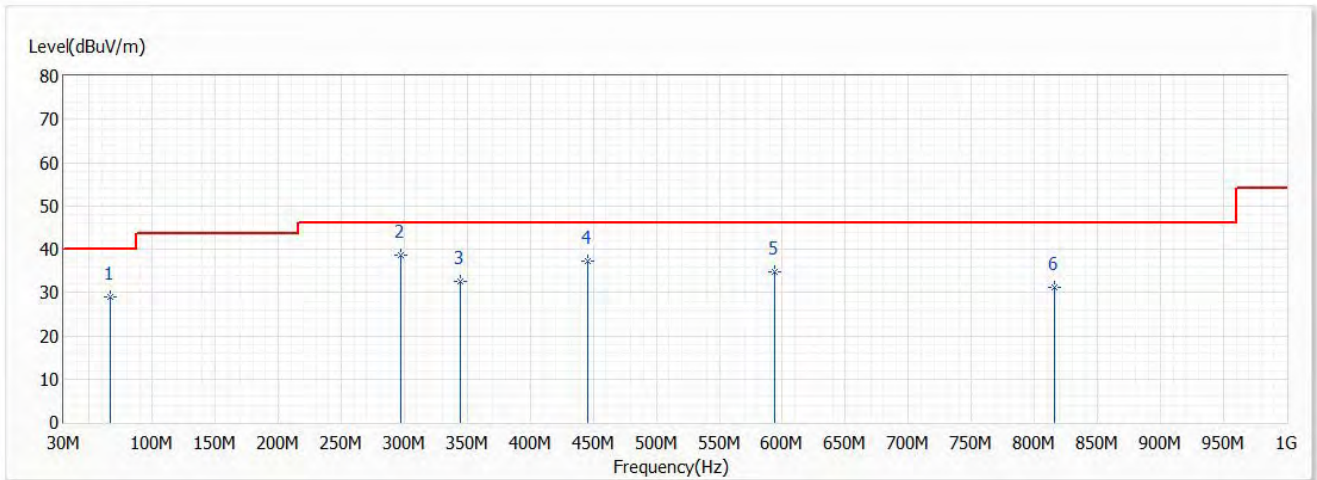


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	81.168	28.96	40.00	-11.04	36.34	-7.38	QP
* 2	148.461	38.60	43.50	-4.90	41.82	-3.22	QP
3	296.871	30.90	46.00	-15.10	33.38	-2.48	QP
4	445.403	32.48	46.00	-13.52	30.95	1.53	QP
5	511.484	32.87	46.00	-13.13	29.93	2.94	QP
6	676.505	30.43	46.00	-15.57	24.45	5.98	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 2: Transmit_ Docking Station	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		

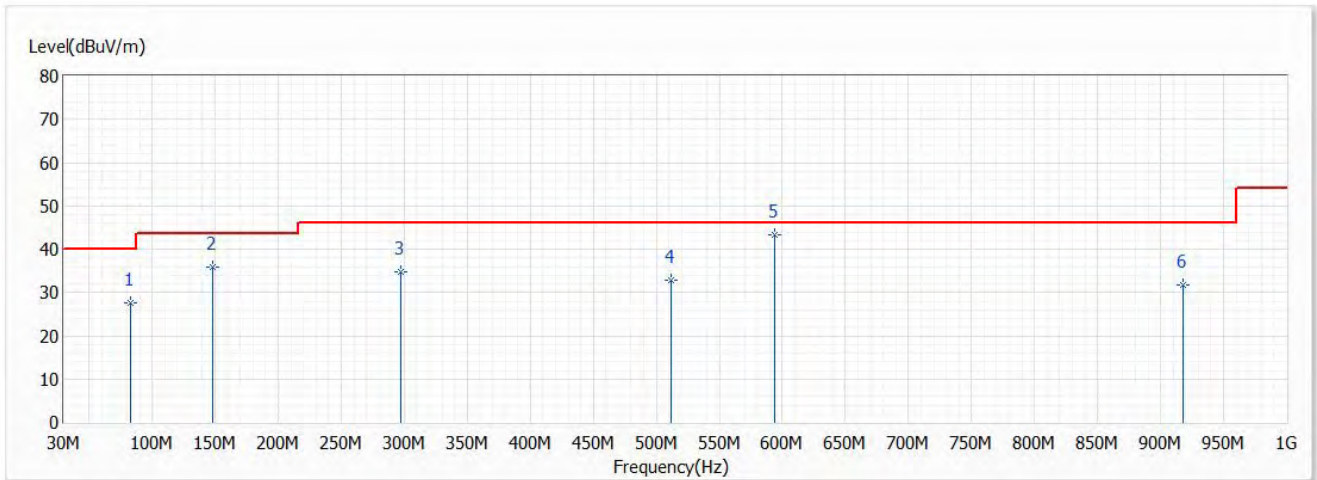


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	66.739	28.83	40.00	-11.17	32.98	-4.15	QP
* 2	297.114	38.59	46.00	-7.41	41.07	-2.48	QP
3	344.765	32.45	46.00	-13.55	33.83	-1.38	QP
4	445.524	37.24	46.00	-8.76	35.71	1.53	QP
5	594.176	34.80	46.00	-11.20	29.90	4.90	QP
6	815.700	31.24	46.00	-14.76	23.15	8.09	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		

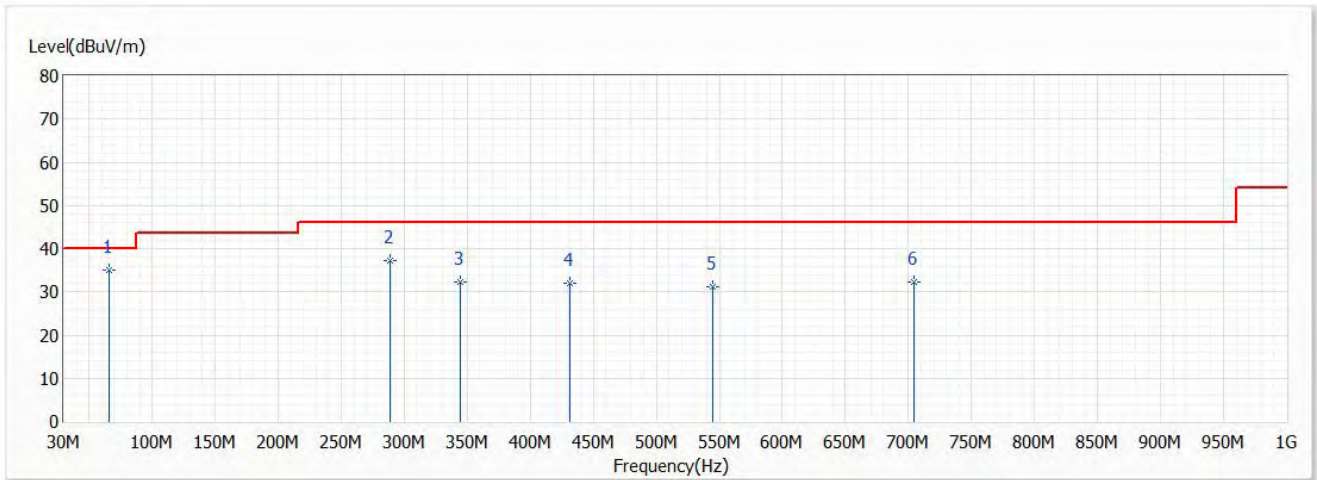


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	82.501	27.64	40.00	-12.36	35.22	-7.58	QP
2	148.461	35.97	43.50	-7.53	39.19	-3.22	QP
3	297.114	34.81	46.00	-11.19	37.29	-2.48	QP
4	511.484	32.77	46.00	-13.23	29.83	2.94	QP
* 5	594.055	43.28	46.00	-2.72	38.39	4.89	QP
6	917.671	31.77	46.00	-14.23	22.32	9.45	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant. 0 + Ant. 1, 5745MHz		



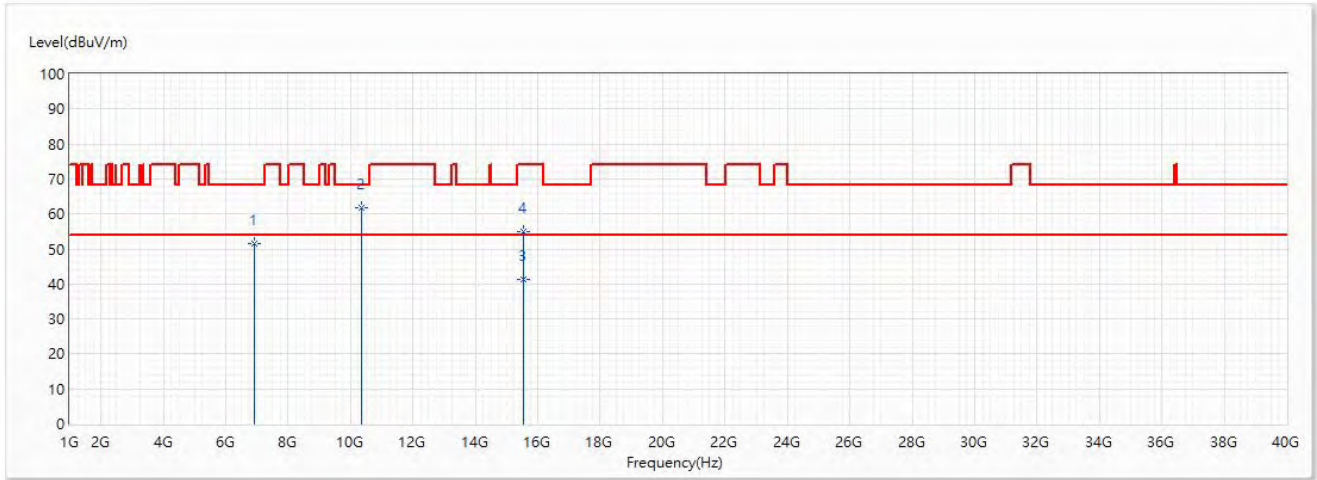
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	65.890	34.98	40.00	-5.02	39.06	-4.08	QP
2	289.233	37.32	46.00	-8.68	39.84	-2.52	QP
3	344.765	32.35	46.00	-13.65	33.73	-1.38	QP
4	430.974	31.89	46.00	-14.11	30.80	1.09	QP
5	544.585	31.09	46.00	-14.91	27.63	3.46	QP
6	704.635	32.18	46.00	-13.82	25.58	6.60	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

7.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5180MHz		

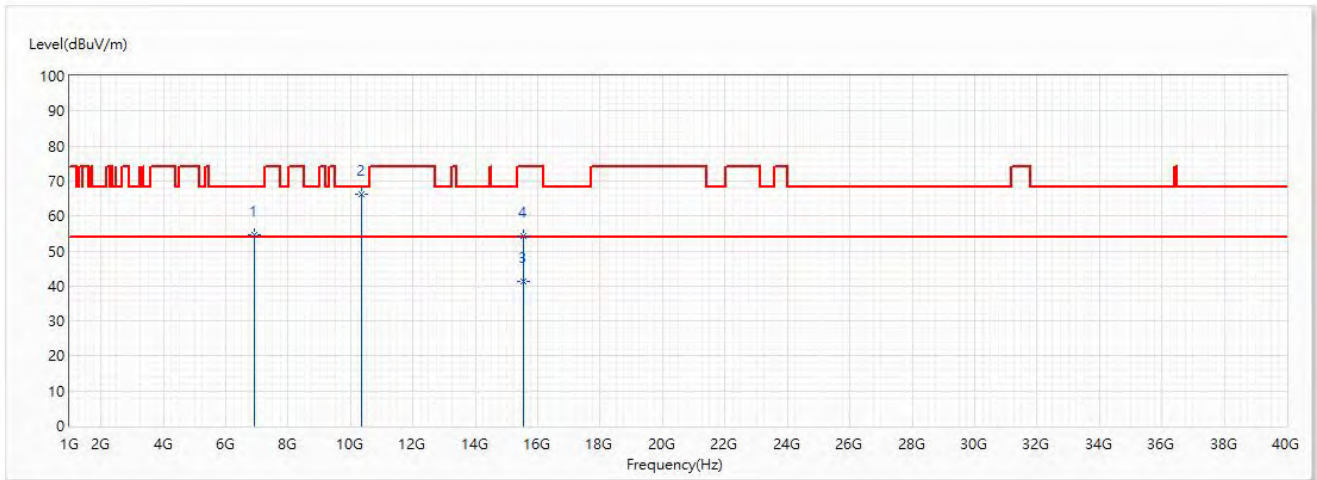


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6906.667	51.62	68.20	-16.58	46.69	4.93	PK
* 2	10360	61.74	68.20	-6.46	48.85	12.89	PK
3	15540	41.35	54.00	-12.65	28.42	12.93	AV
4	15540	54.89	74.00	-19.11	41.96	12.93	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5180MHz		

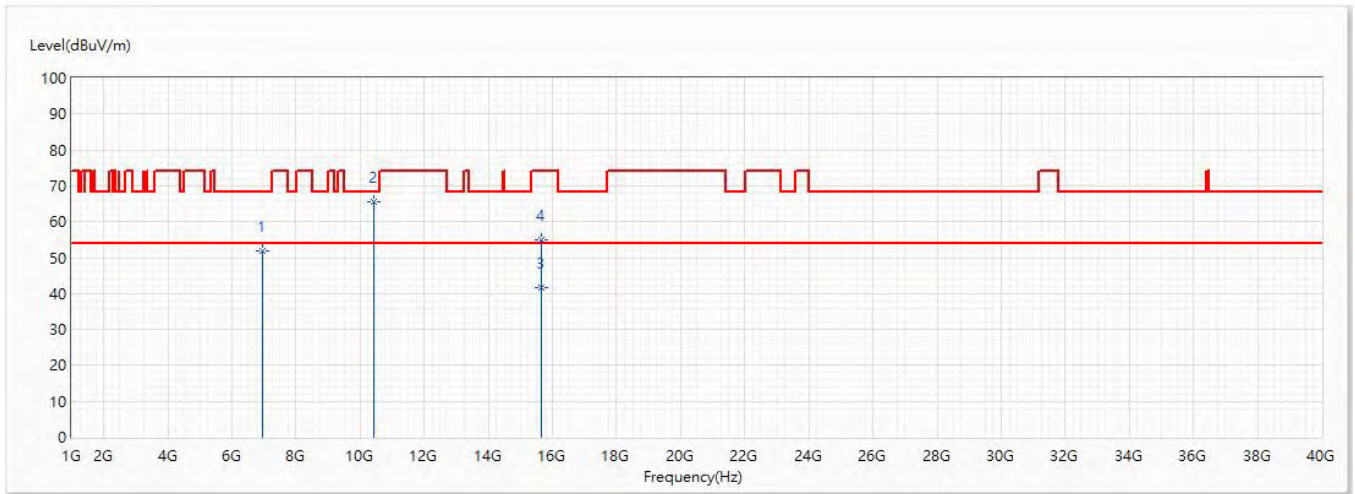


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6906.667	54.64	68.20	-13.56	49.71	4.93	PK
* 2	10360	66.30	68.20	-1.90	53.41	12.89	PK
3	15540	41.43	54.00	-12.57	28.50	12.93	AV
4	15540	54.41	74.00	-19.59	41.48	12.93	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5220MHz		

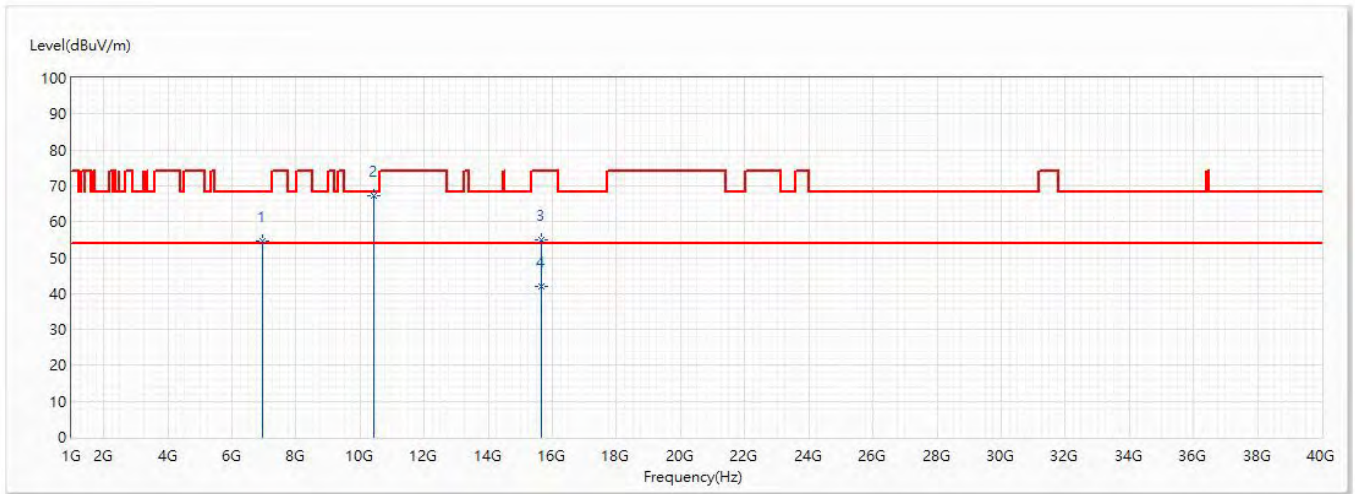


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6960	51.71	68.20	-16.49	46.52	5.19	PK
* 2	10440	65.39	68.20	-2.81	52.24	13.15	PK
3	15660	41.54	54.00	-12.46	29.00	12.54	AV
4	15660	54.78	74.00	-19.22	42.24	12.54	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5220MHz		

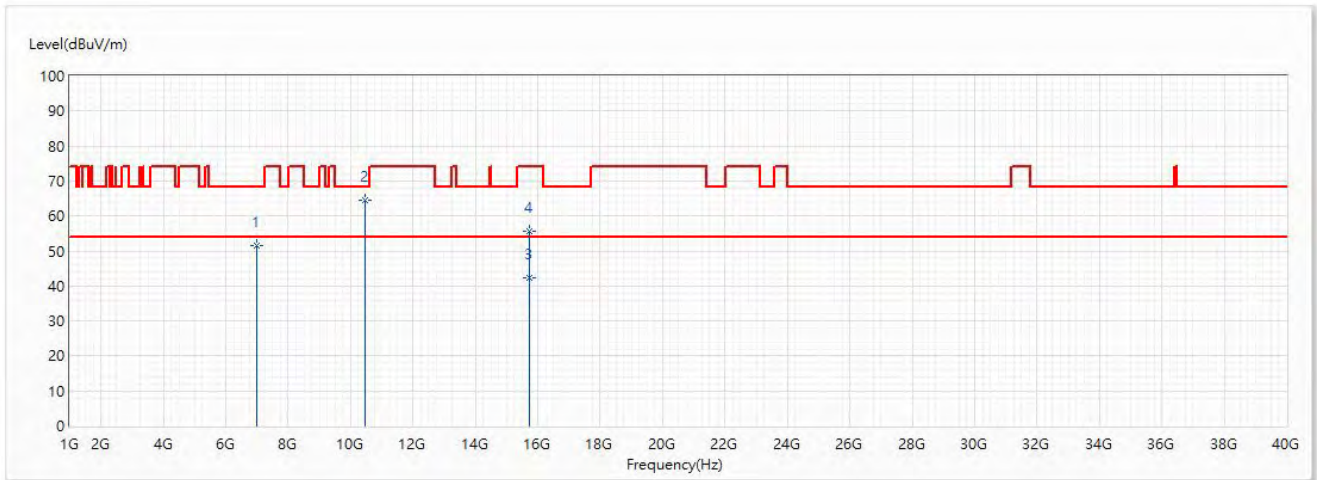


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6960	54.66	68.20	-13.54	49.47	5.19	PK
* 2	10440	67.32	68.20	-0.88	54.17	13.15	PK
3	15660	54.94	74.00	-19.06	42.40	12.54	PK
4	15660	41.85	54.00	-12.15	29.31	12.54	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5240MHz		

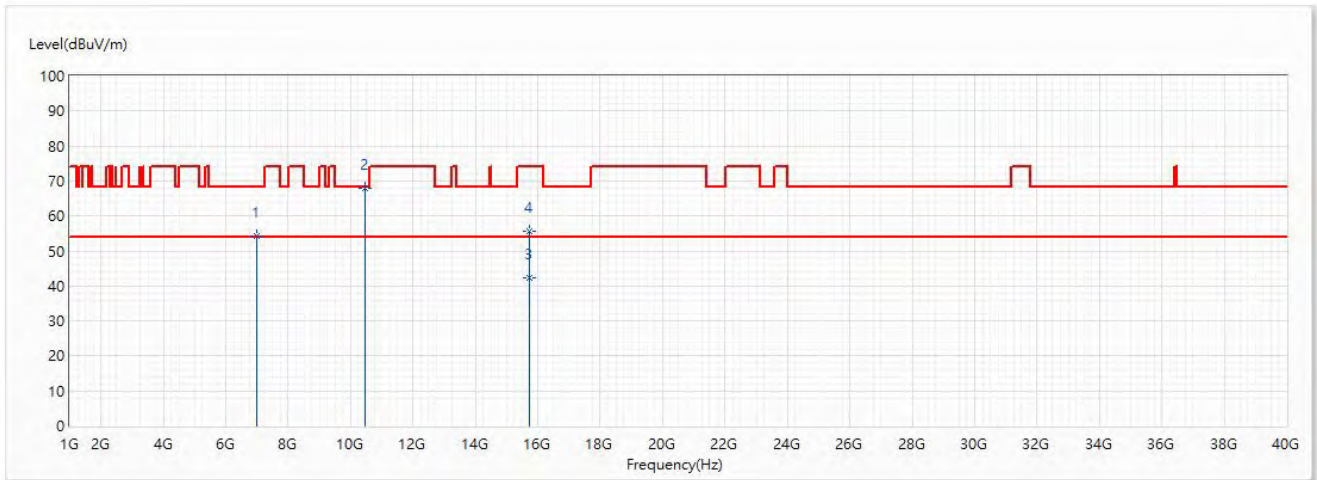


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6986.667	51.55	68.20	-16.65	46.23	5.32	PK
* 2	10480	64.43	68.20	-3.77	51.14	13.29	PK
3	15720	42.17	54.00	-11.83	29.83	12.34	AV
4	15720	55.54	74.00	-18.46	43.20	12.34	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5240MHz		

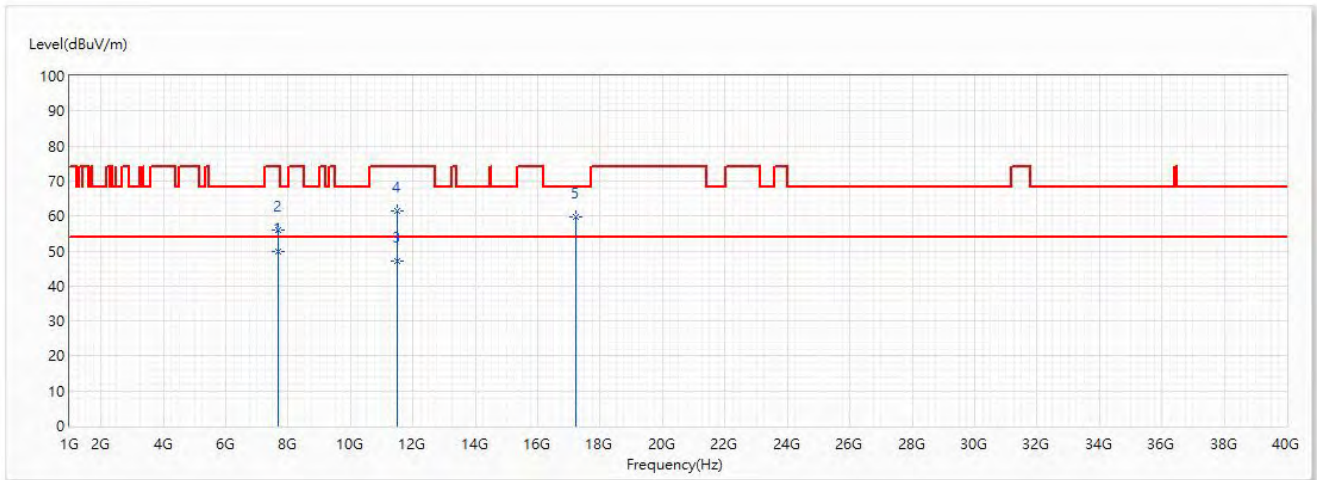


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6986.667	54.42	68.20	-13.78	49.10	5.32	PK
* 2	10480	67.96	68.20	-0.24	54.67	13.29	PK
3	15720	42.20	54.00	-11.80	29.86	12.34	AV
4	15720	55.67	74.00	-18.33	43.33	12.34	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5745MHz		

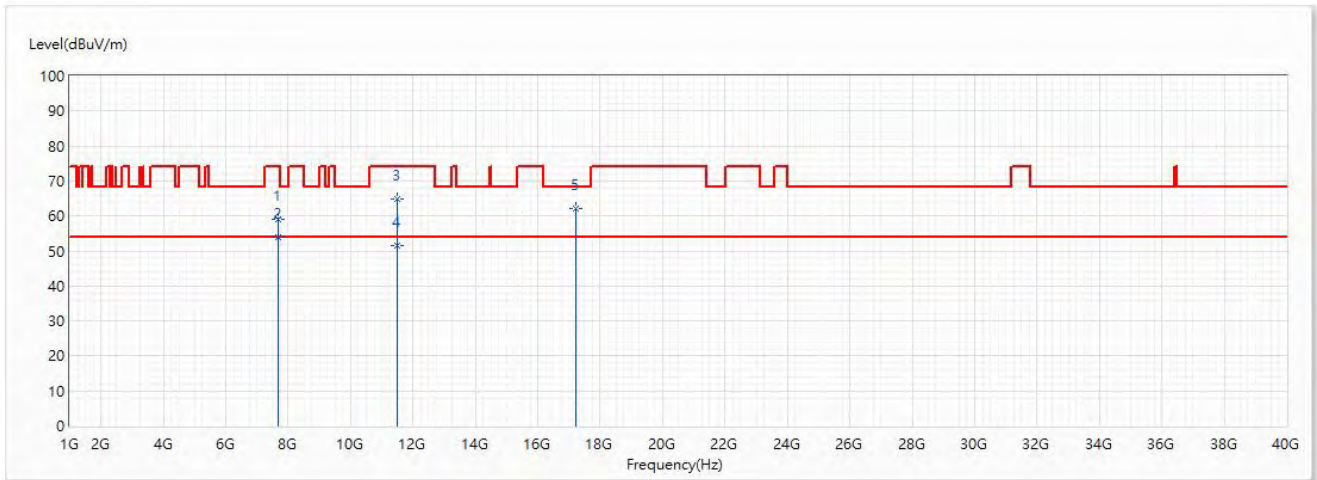


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7660	49.77	54.00	-4.23	42.35	7.42	AV
2	7660	55.82	74.00	-18.18	48.40	7.42	PK
3	11490	46.95	54.00	-7.05	32.44	14.51	AV
4	11490	61.55	74.00	-12.45	47.04	14.51	PK
5	17235	59.74	68.20	-8.46	43.01	16.73	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5745MHz		

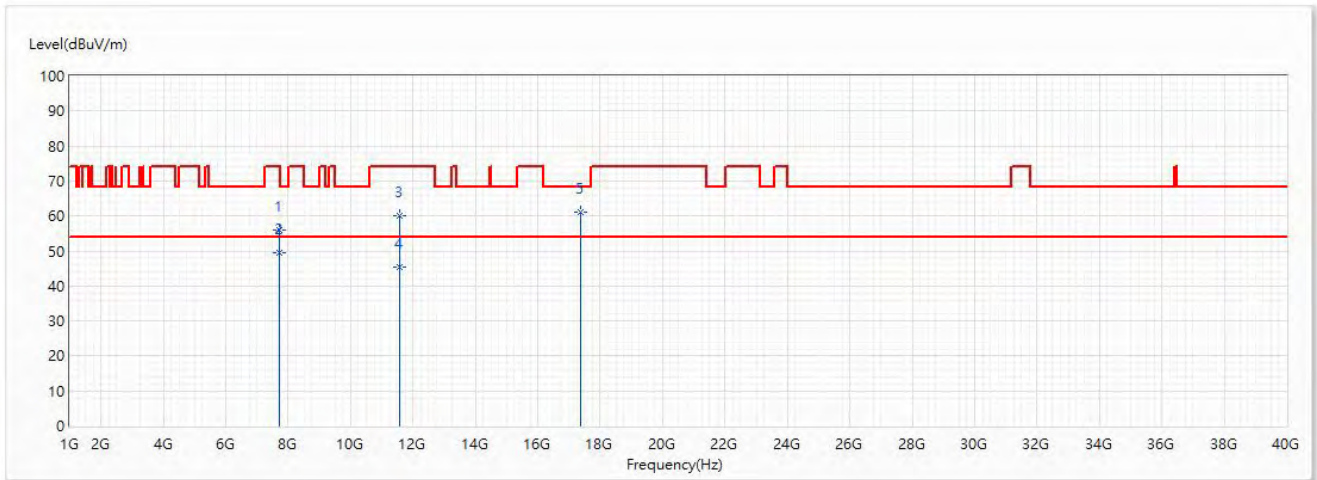


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	58.89	74.00	-15.11	51.47	7.42	PK
* 2	7660	53.85	54.00	-0.15	46.43	7.42	AV
3	11490	64.78	74.00	-9.22	50.27	14.51	PK
4	11490	51.64	54.00	-2.36	37.13	14.51	AV
5	17235	61.99	68.20	-6.21	45.26	16.73	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5.785MHz		

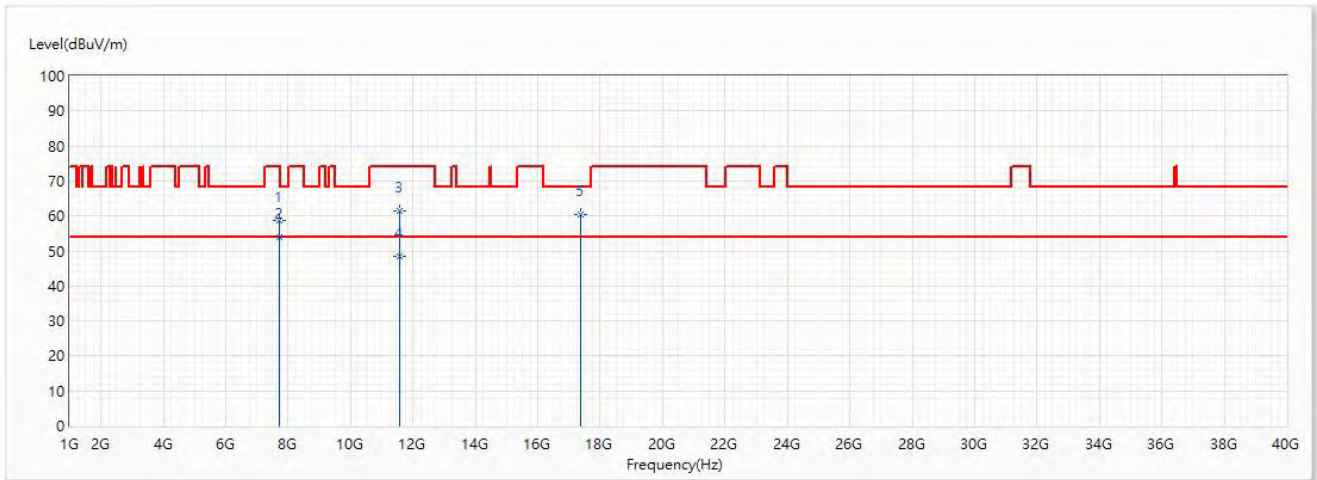


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	55.89	74.00	-18.11	48.33	7.56	PK
* 2	7713.333	49.47	54.00	-4.53	41.91	7.56	AV
3	11570	60.21	74.00	-13.79	45.83	14.38	PK
4	11570	45.51	54.00	-8.49	31.13	14.38	AV
5	17355	61.16	68.20	-7.04	43.51	17.65	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5785MHz		

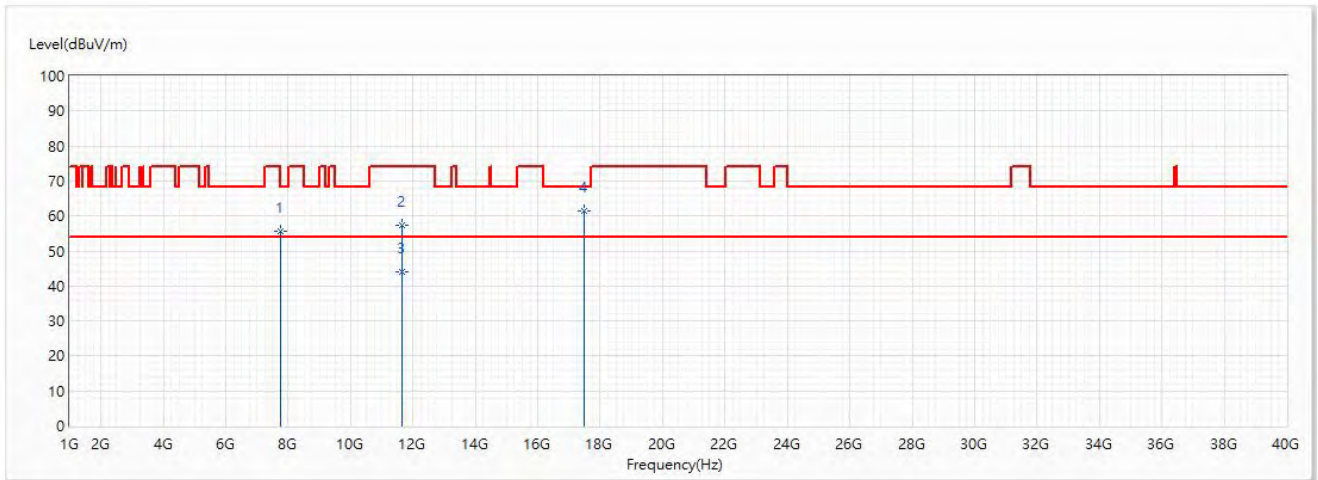


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	58.75	74.00	-15.25	51.19	7.56	PK
* 2	7713.333	53.87	54.00	-0.13	46.31	7.56	AV
3	11570	61.31	74.00	-12.69	46.93	14.38	PK
4	11570	48.54	54.00	-5.46	34.16	14.38	AV
5	17355	60.24	68.20	-7.96	42.59	17.65	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11a, Ant.0 + Ant.1, 5825MHz		

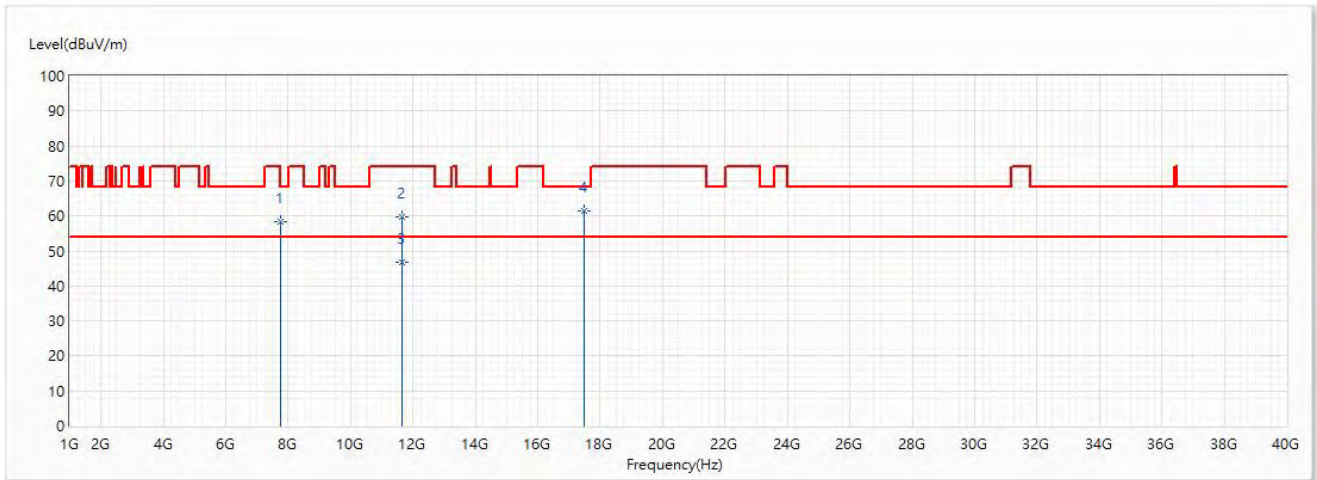


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	55.61	68.20	-12.59	47.92	7.69	PK
2	11650	57.25	74.00	-16.75	43.02	14.23	PK
3	11650	44.16	54.00	-9.84	29.93	14.23	AV
* 4	17475	61.49	68.20	-6.71	42.92	18.57	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11a, Ant.0 + Ant.1, 5825MHz		

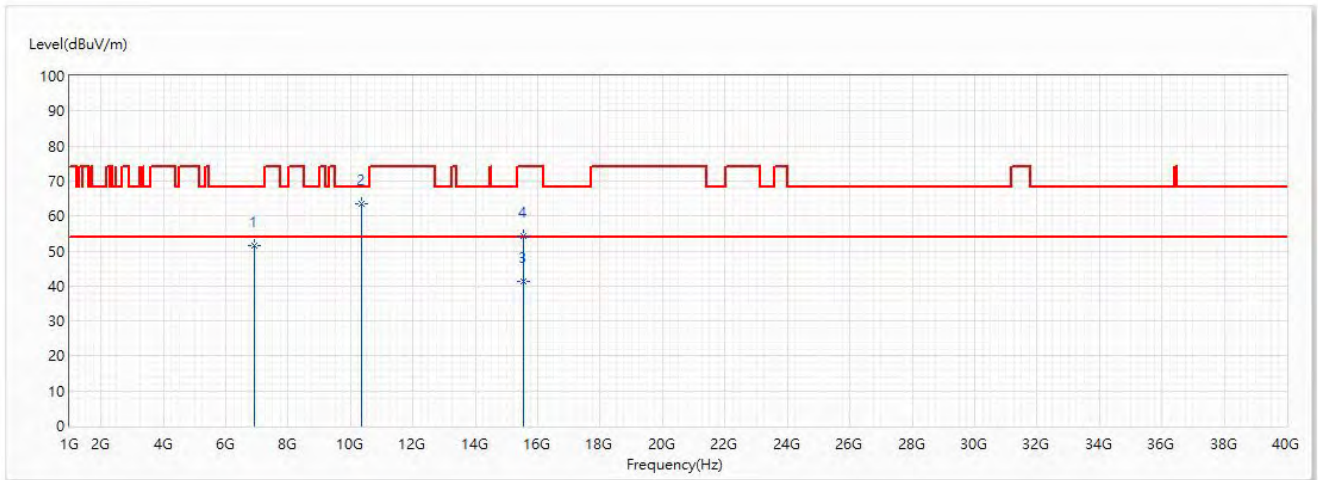


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	58.52	68.20	-9.68	50.83	7.69	PK
2	11650	59.67	74.00	-14.33	45.44	14.23	PK
3	11650	46.73	54.00	-7.27	32.50	14.23	AV
* 4	17475	61.46	68.20	-6.74	42.89	18.57	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5180MHz		

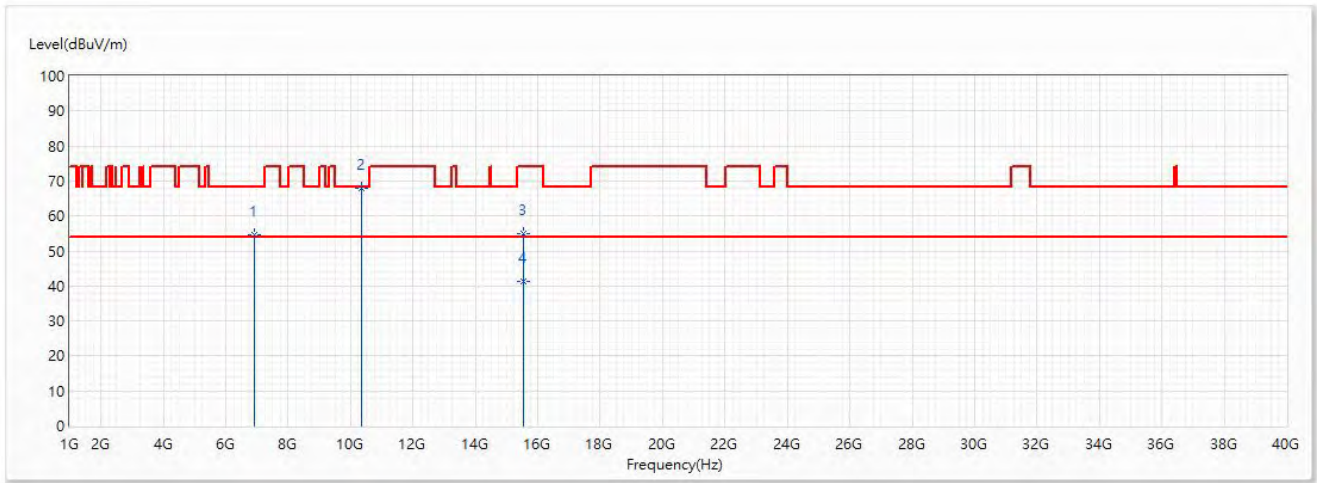


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6906.667	51.65	68.20	-16.55	46.72	4.93	PK
* 2	10360	63.54	68.20	-4.66	50.65	12.89	PK
3	15540	41.33	54.00	-12.67	28.40	12.93	AV
4	15540	54.39	74.00	-19.61	41.46	12.93	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5180MHz		

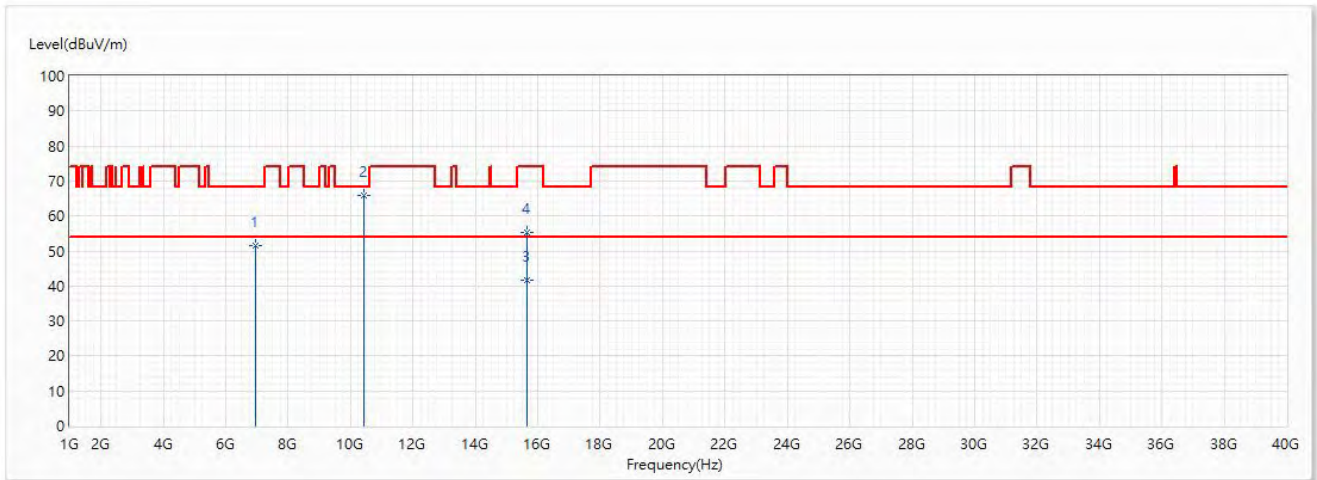


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6906.667	54.54	68.20	-13.66	49.61	4.93	PK
* 2	10360	68.02	68.20	-0.18	55.13	12.89	PK
3	15540	55.01	74.00	-18.99	42.08	12.93	PK
4	15540	41.39	54.00	-12.61	28.46	12.93	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5220MHz		

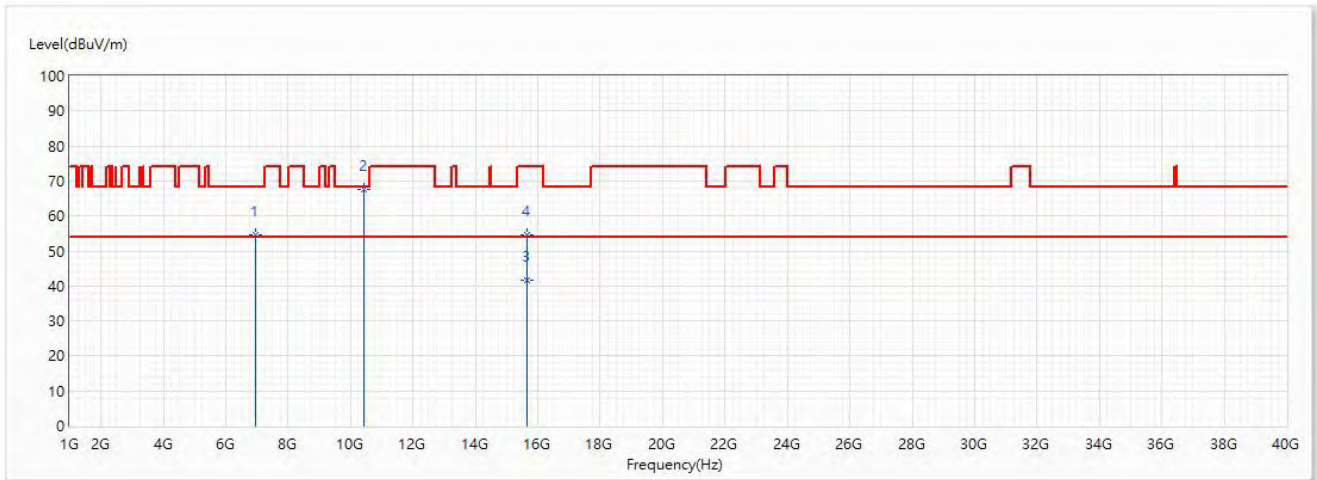


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6960	51.61	68.20	-16.59	46.42	5.19	PK
* 2	10440	65.84	68.20	-2.36	52.69	13.15	PK
3	15660	41.71	54.00	-12.29	29.17	12.54	AV
4	15660	55.38	74.00	-18.62	42.84	12.54	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5220MHz		

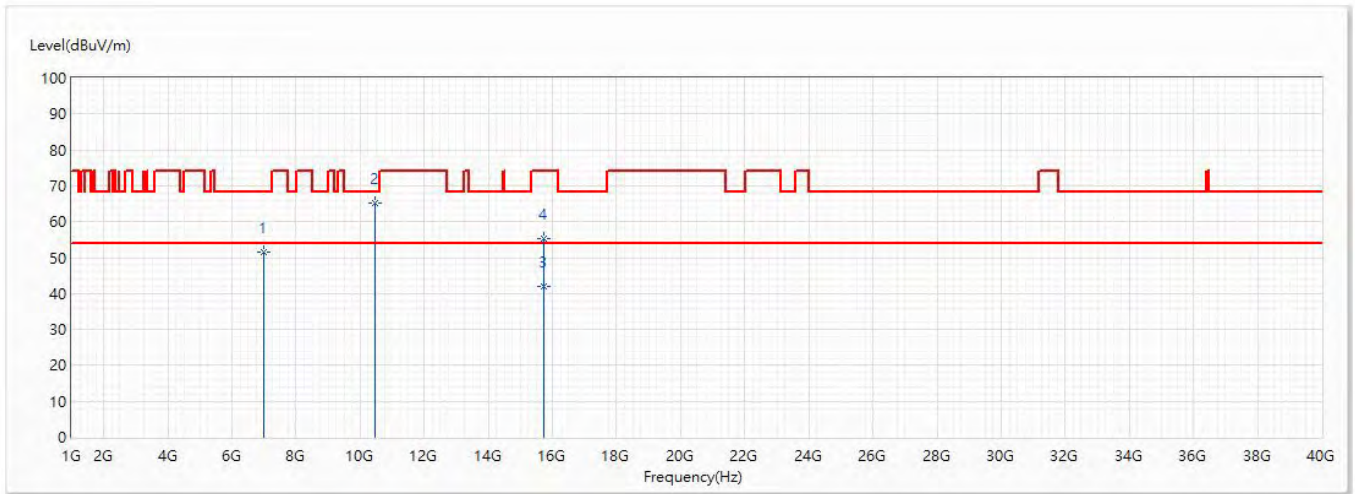


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6960	54.72	68.20	-13.48	49.53	5.19	PK
* 2	10440	67.61	68.20	-0.59	54.46	13.15	PK
3	15660	41.68	54.00	-12.32	29.14	12.54	AV
4	15660	54.63	74.00	-19.37	42.09	12.54	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5240MHz		

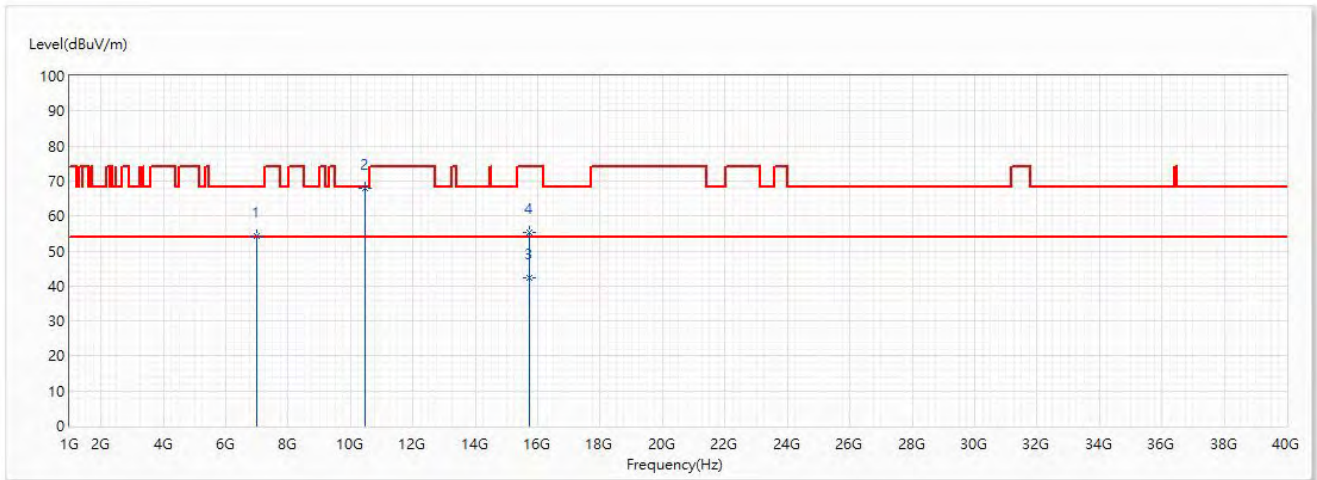


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6986.667	51.48	68.20	-16.72	46.16	5.32	PK
* 2	10480	65.29	68.20	-2.91	52.00	13.29	PK
3	15720	42.05	54.00	-11.95	29.71	12.34	AV
4	15720	55.42	74.00	-18.58	43.08	12.34	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5240MHz		

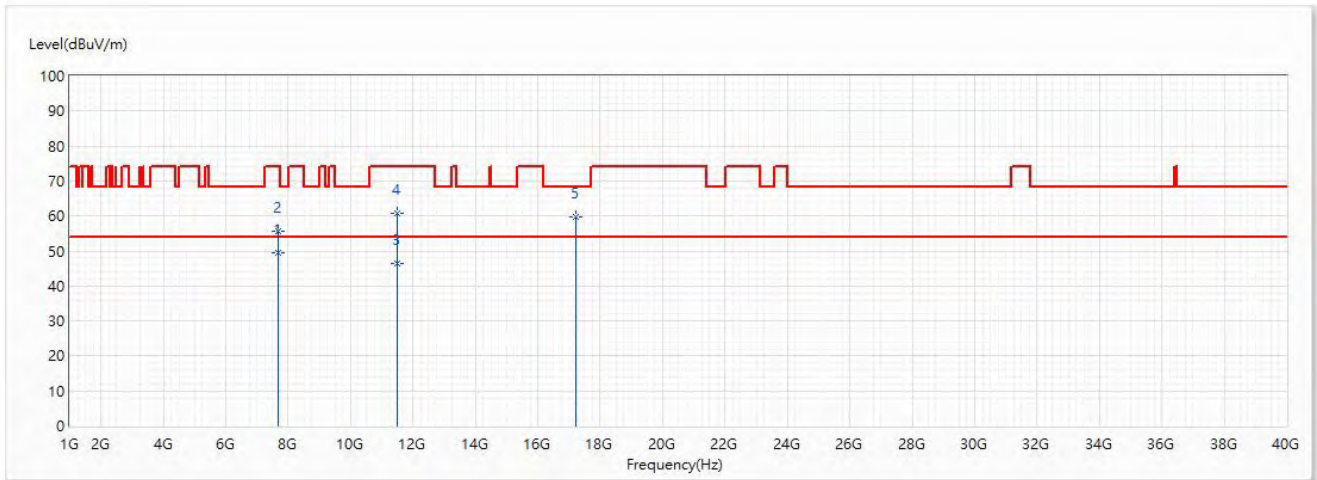


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	6986.667	54.35	68.20	-13.85	49.03	5.32	PK
* 2	10480	68.01	68.20	-0.19	54.72	13.29	PK
3	15720	42.25	54.00	-11.75	29.91	12.34	AV
4	15720	55.21	74.00	-18.79	42.87	12.34	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5745MHz		

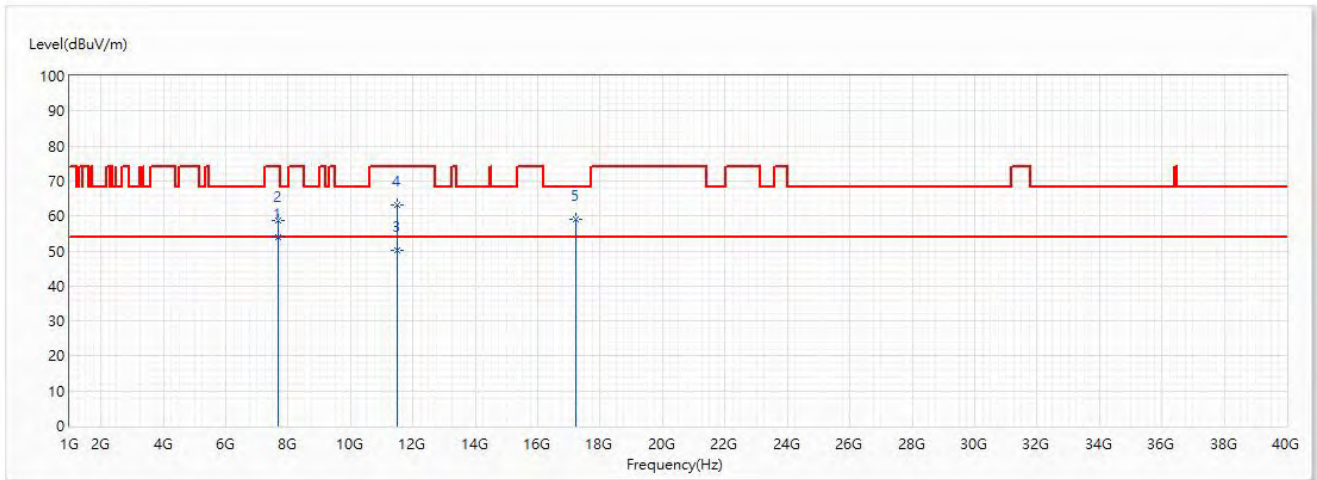


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7660	49.62	54.00	-4.38	42.20	7.42	AV
2	7660	55.79	74.00	-18.21	48.37	7.42	PK
3	11490	46.58	54.00	-7.42	32.07	14.51	AV
4	11490	60.65	74.00	-13.35	46.14	14.51	PK
5	17235	59.80	68.20	-8.40	43.07	16.73	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5745MHz		

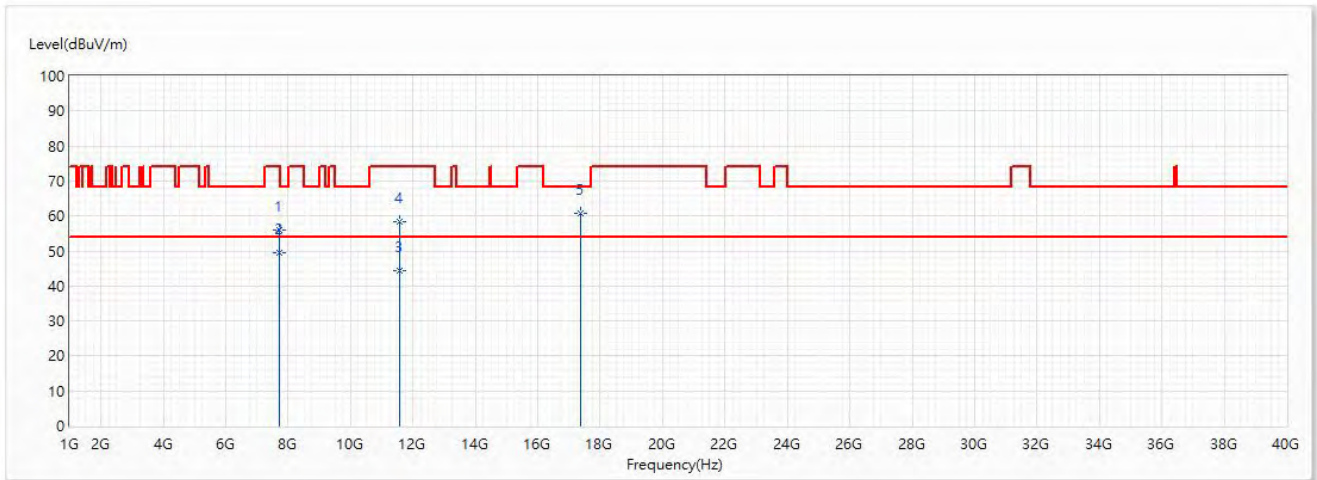


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	7660	53.89	54.00	-0.11	46.47	7.42	AV
2	7660	58.78	74.00	-15.22	51.36	7.42	PK
3	11490	50.03	54.00	-3.97	35.52	14.51	AV
4	11490	63.23	74.00	-10.77	48.72	14.51	PK
5	17235	59.21	68.20	-8.99	42.48	16.73	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5785MHz		

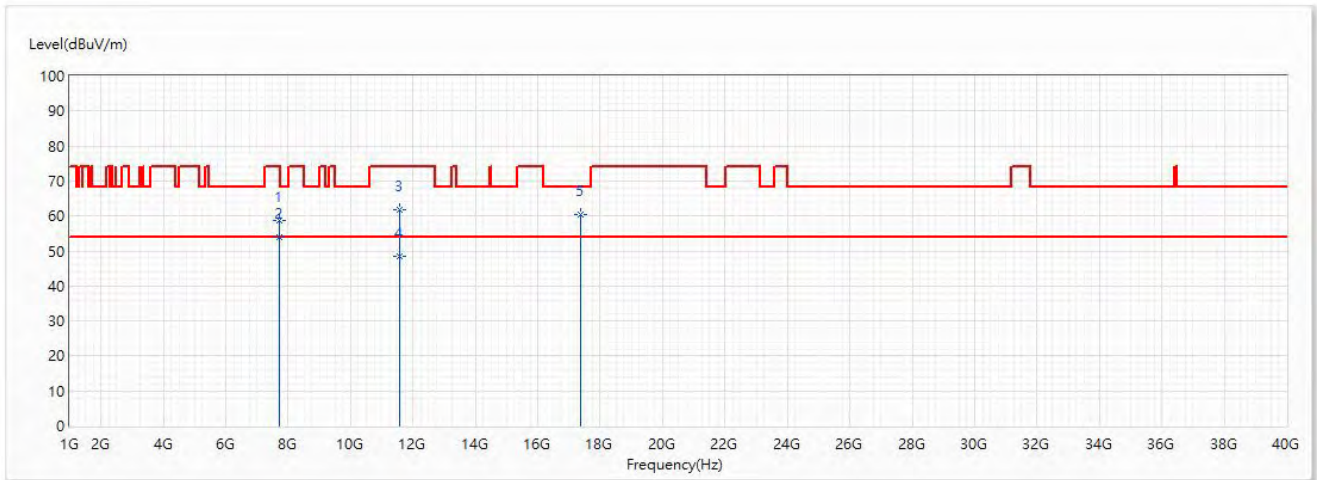


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	55.95	74.00	-18.05	48.39	7.56	PK
* 2	7713.333	49.52	54.00	-4.48	41.96	7.56	AV
3	11570	44.48	74.00	-29.52	30.10	14.38	PK
4	11570	58.53	74.00	-15.47	44.15	14.38	PK
5	17355	60.62	68.20	-7.58	42.97	17.65	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	802.11ac (20MHz), Ant.0 + Ant.1, 5785MHz		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	58.68	74.00	-15.32	51.12	7.56	PK
* 2	7713.333	53.84	54.00	-0.16	46.28	7.56	AV
3	11570	61.76	74.00	-12.24	47.38	14.38	PK
4	11570	48.50	54.00	-5.50	34.12	14.38	AV
5	17355	60.25	68.20	-7.95	42.60	17.65	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.