RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0615
Applicant:	Hewlett Packard Enterprise Company
Product:	ACCESS POINT
Model No.:	APIN0615
Marketing Name:	AP32
Trademark:	Hewlett Packard Enterprise, HPE aruba networking
FCC Classification:	Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2023-08-25
Test Date:	2023-10-19 ~ 2023-12-29

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2308RSU066-U3	V01	Initial Report	2023-11-18	Invalid
2308RSU066-U3	V02	Add spot check test data	2024-01-05	Valid

Note 1: The product is a variation on the existing APIN0615 that had FCC approval (FCC ID: Q9DAPIN0615).

The differences are shown in the table below.

Parts of Product	Modification
Top cover	Change ION style look.
Bottom Cover	Yes, Changed Painted white
Light pipe	Yes, Changed. Move to the edge for consistent ION ID
USB Port	Removed
Antenna	Remove BLE/ZigBee/GPS Antenna
PCB	Remove BLE/ZigBee/GPS chipset and match circuit

The applicant remeasured a set of antenna gain that slightly different than before.

Frequency Range (MHz)	**Original Wi-Fi Antenna Gain**	**Current Wi-Fi Antenna Gain**
	(dBi)	(dBi)
2400 ~ 2480(Radio 0)	2.0	1.5
2400 ~ 2480(Radio 1)	0.6	1.6
5150 ~ 5895	3.8	3.8
5925 ~ 7125	3.5	3.9

Note 2: Most test data refer to original test report no. 2105TW0006-U4. Spot-check tests were done on these items based on worst-case results reported in the original FCC ID filing.

Test Description	Verdict
Occupied Bandwidth	Data referencing with spot check
Output Power	Data referencing with spot check
Peak Power Spectral Density	Data referencing with spot check
Radiated Spurious Emission and Band Edge	Data referencing with spot check
AC Conducted Emissions 150kHz - 30MHz	Full test

CONTENTS

Description Page

1. General Information 6

1.1. Applicant 6
1.2. Manufacturer 6
1.3. Testing Facility 6
1.4. Product Information 7
1.5. Radio Specification under Test 8
1.6. Working Frequencies 9
1.7. Antenna Details 10

2. Test Configuration 11

2.1. Test Mode 11
2.2. Test System Connection Diagram 11
2.3. Test Software 11
2.4. Applied Standards 12
2.5. Test Environment Condition 12

3. Antenna Requirements 13

4. Measuring Instrument 14

5. Decision Rules and Measurement Uncertainty 16

5.1. Decision Rules 16
5.2. Measurement Uncertainty 16

6. Test Result 17

6.1. Summary 17
6.2. 26dB & 99% Bandwidth Measurement 18
6.2.1. Test Limit 18
6.2.2. Test Procedure 18
6.2.3. Test Setting 18
6.2.4. Test Setup 19
6.2.5. Test Result 19
6.3. 6dB Bandwidth Measurement 20
6.3.1. Test Limit 20
6.3.2. Test Procedure 20
6.3.3. Test Setting 20
6.3.4. Test Setup 20
6.3.5. Test Result 20
6.4. Output Power Measurement 21
6.4.1. Test Limit 21

6.4.2. Test Procedure 21
6.4.3. Test Setting 21
6.4.4. Test Setup 21
6.4.5. Test Result 21
6.5. Transmit Power Control Measurement 22
6.5.1. Test Limit 22
6.5.2. Test Procedure 22
6.5.3. Test Setting 22
6.5.4. Test Setup 22
6.5.5. Test Result 22
6.6. Power Spectral Density Measurement 23
6.6.1. Test Limit 23
6.6.2. Test Procedure 23
6.6.3. Test Setting 23
6.6.4. Test Setup 24
6.6.5. Test Result 24
6.7. Frequency Stability Measurement 25
6.7.1. Test Limit 25
6.7.2. Test Procedure 25
6.7.3. Test Setup 25
6.7.4. Test Result 26
6.8. Radiated Spurious Emission Measurement 27
6.8.1. Test Limit 27
6.8.2. Test Procedure 27
6.8.3. Test Setting 27
6.8.4. Test Setup 29
6.8.5. Test Result 30
6.9. Radiated Restricted Band Edge Measurement 31
6.9.1. Test Limit 31
6.9.2. Test Procedure 33
6.9.3. Test Setting 33
6.9.4. Test Setup 34
6.9.5. Test Result 34
6.10. AC Conducted Emissions Measurement 35
6.10.1. Test Limit 35
6.10.2. Test Setup 35
6.10.3. Test Result 35

Appendix A – Test Result 36

A.1 Duty Cycle Test Result 36

A.2 26dB & 99% Bandwidth Test Result 37
A.3 6dB Bandwidth Test Result 38
A.4 Output Power Test Result 39
A.5 Power Spectral Density Test Result 41
A.6 Frequency Stability Test Result 43
A.7 Radiated Spurious Emission Test Result 44
A.8 Radiated Restricted Band Edge Test Result 111
A.9 AC Conducted Emissions Test Result 211

Appendix B – Test Setup Photograph 213

Appendix C – EUT Photograph 214

1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China **Laboratory Location (Suzhou - SIP)** 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐R-20025 ☐G-20034 ☐C-20020 ☐T-20020 ☐R-20141 ☐G-20134 ☐C-20103 ☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	**Test Site – MRT Taiwan Laboratory**
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0615
Marketing Name:	AP32
Serial No.	CNQSM1H00H
Software Version	v0.1.12
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Power Type	AC/DC adapter or PoE Input
Operating Temp.	0 ~ 50 °C
Operating Environment	Indoor Use
Accessories	
AC/DC Adapter	Model: WB-18Q12R Input: 100-240V ~ 50/60Hz, 0.5A Max Output: 12.0V, 1.5A, 18W
PoE Injector	Model: ADH-30CR BB Input: 100-240V ~ 1.0A 50-60Hz Output: 55V, 0.55A 30.25W

Remark:

1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.
2. AC Power Adapter and PoE Injector are not sold with Product.

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz, 5775MHz For 802.11ac-VHT160/ax-HE160: 5250MHz, 5570MHz	
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.4Mbps 802.11ax: up to 2402Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Tx Paths	Uncorrelated Gain (dBi)	Correlated Gain (dBi)
PIFA	2412 ~ 2462(Radio 0)	2	1.5	4.4
PIFA	2412 ~ 2462(Radio 1)	2	1.6	4.5
PIFA	5150 ~ 5895	2	3.8	6.8
PIFA	5925 ~ 7125	2	3.9	6.9

Note 1: In accordance with KDB 662911 D01v02r01, uncorrelated directional gain was applied for calculating max conducted output power limit and correlated directional gain was applied for calculating PSD limit.

Note 2: The directional gains, uncorrelated and correlated gains were provided by the manufacturer.

2. Test Configuration

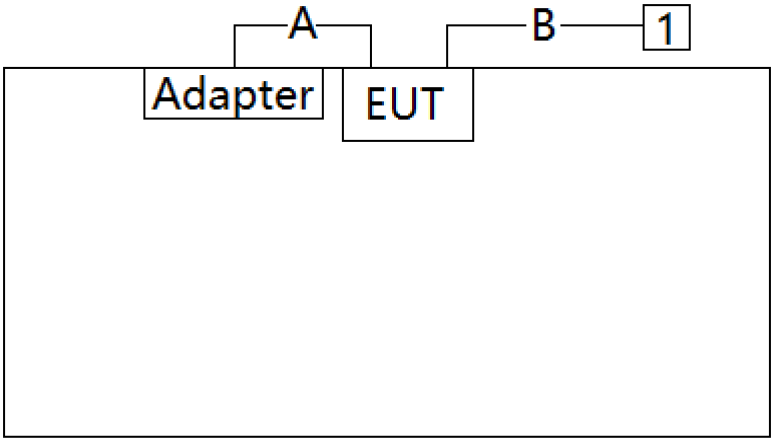
2.1. Test Mode

Mode 1: Transmit by 802.11a_ N_{SS}=1 (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20_N_{SS}=1 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40_N_{SS}=1 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80_N_{SS}=1 (MCS0)
Mode 5: Transmit by 802.11ac-VHT160_N_{SS}=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0)
Mode 7: Transmit by 802.11ax-HE40_N_{SS}=1 (MCS0)
Mode 8: Transmit by 802.11ax-HE80_N_{SS}=1 (MCS0)
Mode 9: Transmit by 802.11ax-HE160_N_{SS}=1 (MCS0)

Note: These test modes (worst case) are from the original report.

2.2. Test System Connection Diagram

Connection Diagram – Radiated Emission testing



Cable Type		Cable Description
A	Power Cable	Non shielded, 2.0m
B	LAN Cable	Non shielded, 3.0m

Product		Manufacturer	Model No.
1	Notebook	ThinkPad	E495

2.3. Test Software

The test utility software used during testing was “accessMTool” and the version was “3.2.1.5”.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.407
- KDB 789033 D02v02r01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2023-12-22	SIP-AC1
				1 year	2024-12-21	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2024-11-02	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2024-06-17	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2024-10-28	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2024-05-23	SIP-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2023-12-28	SIP-AC2
				1 year	2024-12-17	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2024-10-09	SIP-AC3
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2024-02-26	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2024-10-23	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2023-11-27	SIP-AC2
				1 year	2024-11-03	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2024-06-17	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2023-12-22	SIP-AC2
				1 year	2024-12-21	SIP-AC2
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2024-07-14	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2024-10-28	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2024-01-12	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2024-08-04	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2023-12-22	SIP-AC3
				1 year	2024-12-21	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE11255	1 year	2024-08-13	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2024-09-24	SIP-AC3
Temperature Chamber	BAOYT	BYG-408CS	MRTSUE06847	1 year	2024-02-12	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2023-11-01	SIP-TR1
				1 year	2024-10-28	SIP-TR1
Signal Analyzer	Keysight	N9010B	MRTSUE07036	1 year	2024-02-29	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2024-10-28	SIP-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2024-07-31	SIP-TR1
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2024-05-23	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2024-05-23	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2024-10-23	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2024-11-03	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2024-10-23	SIP-SR2

Software	Version	Function
EMI V3	V 3.0.0	EMI Test Software
Controller_MF 7802BS	1.02	RE Antenna & Turntable
BenchVue Power Meter	2019	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.7%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(e)	6dB Bandwidth		Pass
15.407(a)(1)(ii), (2), (3)(i)	Maximum Conducted Output Power		Pass
15.407(h)(1)	Transmit Power Control		Pass
15.407(g)	Frequency Stability		Pass
15.407(a)(1)(ii), (2), (3)(i), (12)	Peak Power Spectral Density		Pass
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions		Pass
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Note: For Radiated Spurious Emission and Radiated Restricted Band Edge, the EUT setup for testing is determined by the original report.

6.2. 26dB & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

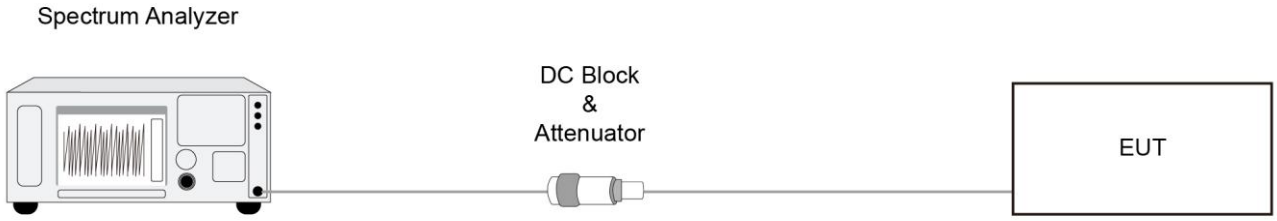
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3. VBW ≥ 3 × RBW
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. 6dB Bandwidth Measurement

6.3.1. Test Limit

The minimum 6dBbandwidth shall be at least 500 kHz.

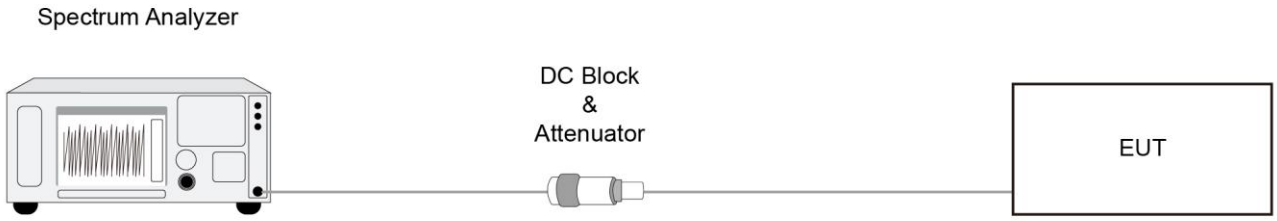
6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)2)

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW ≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Output Power Measurement

6.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.4.2. Test Procedure

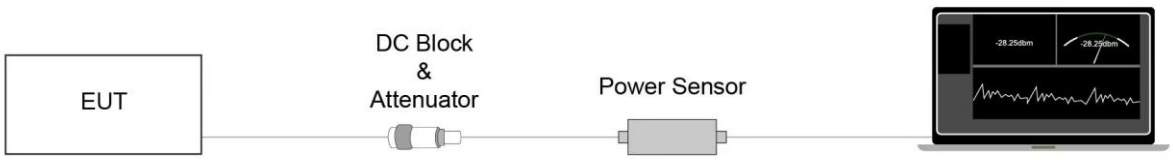
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.4.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Transmit Power Control Measurement

6.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

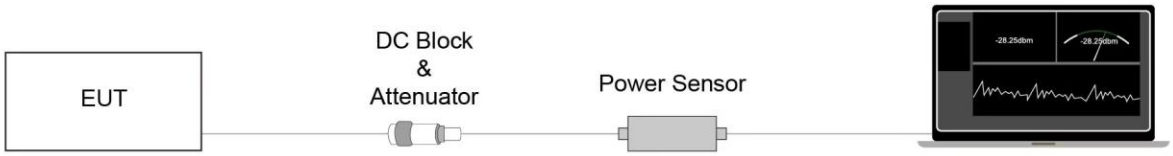
6.5.2. Test Procedure

KDB 789033 D02v01- Section II)E)3)b) Method PM-G

6.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

6.5.4. Test Setup



6.5.5. Test Result

Device supports TPC mechanism, details refer to the operational description.

6.6. Power Spectral Density Measurement

6.6.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

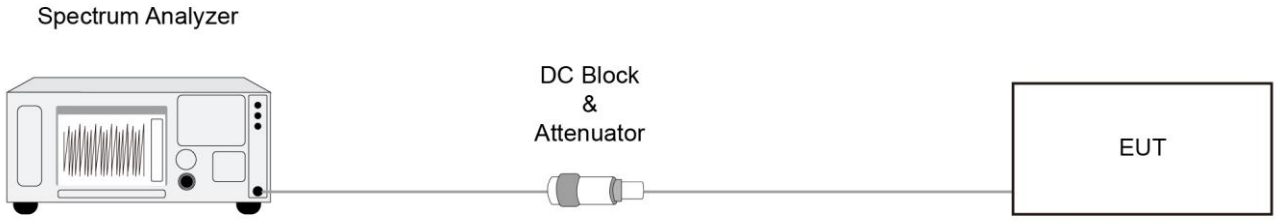
6.6.2. Test Procedure

KDB 789033 D02v02r01-Section Ⅱ)F)

6.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz (510kHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz)
4. VBW = 3 × RBW
5. Number of sweep points ≥ 2 × (span / RBW)
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add 10*log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10*log(1/0.25) = 6 dB if the duty cycle is 25 percent.

6.6.4. Test Setup



6.6.5. Test Result

Refer to Appendix A.5.

6.7. Frequency Stability Measurement

6.7.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.7.2. Test Procedure

Frequency Stability Under Temperature Variations:

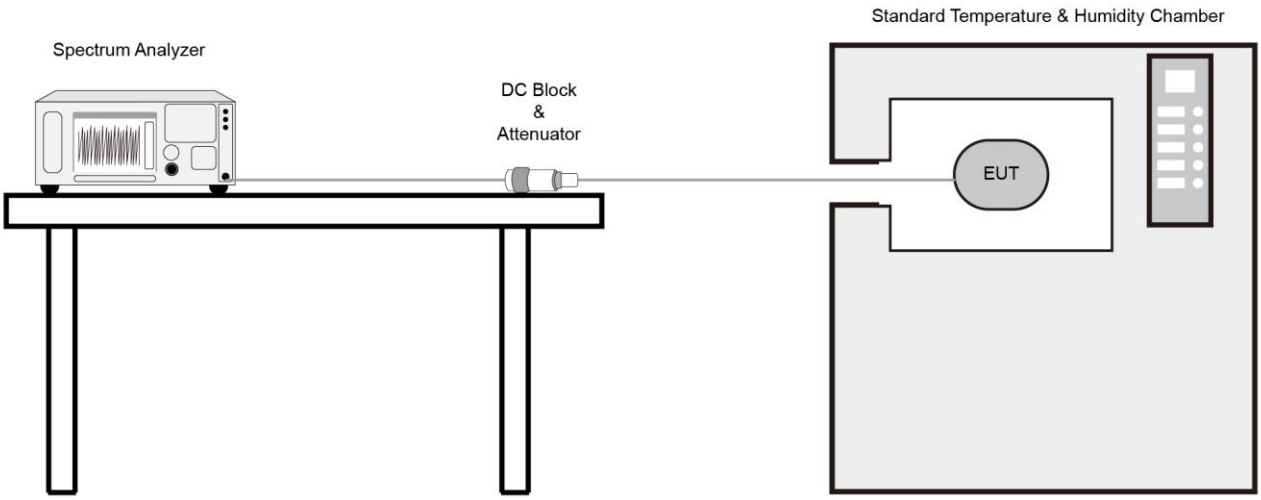
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

6.7.3. Test Setup



6.7.4. Test Result

Refer to Appendix A.6.

6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section II (G)

6.8.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a 6Mbps	VBW = 510Hz	802.11ac-VHT20 MCS0	VBW = 10Hz
802.11ac-VHT40 MCS0	VBW = 1.1kHz	802.11ac-VHT80 MCS0	VBW = 2.2kHz
802.11ac-VHT160 MCS0	VBW = 4.3kHz	802.11ax-HE20 MCS0	VBW = 620Hz
802.11ax-HE40 MCS0	VBW = 1.3kHz	802.11ax-HE80 MCS0	VBW = 2.4kHz
802.11ax-HE160 MCS0	VBW = 4.2kHz		

4. Detector = Peak

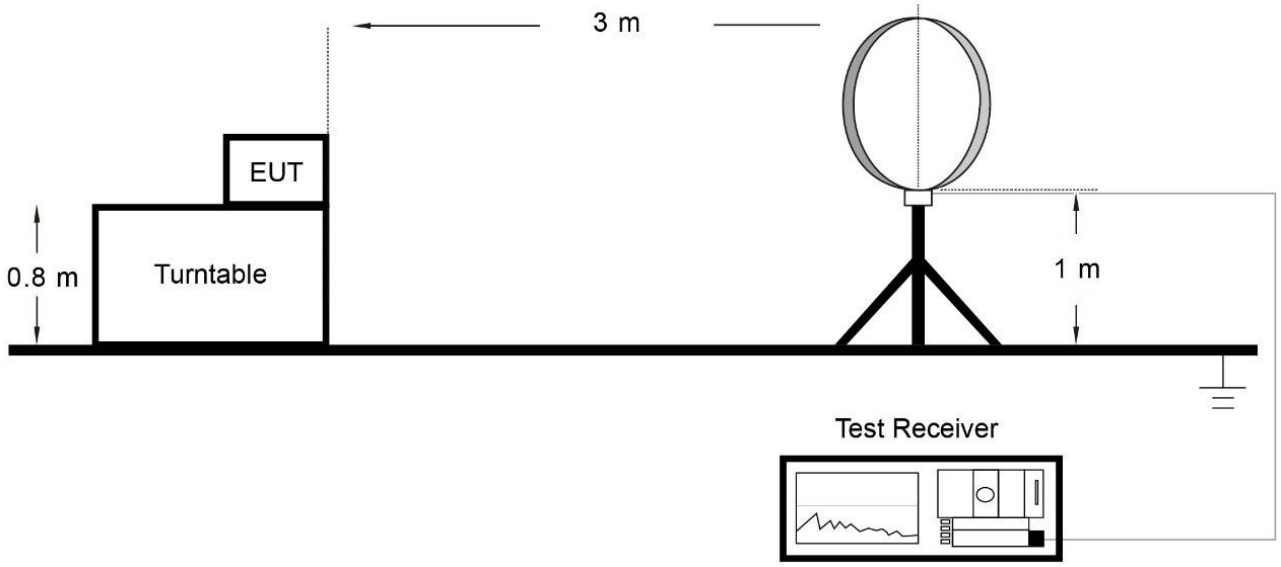
5. Sweep time = auto

6. Trace mode = max hold

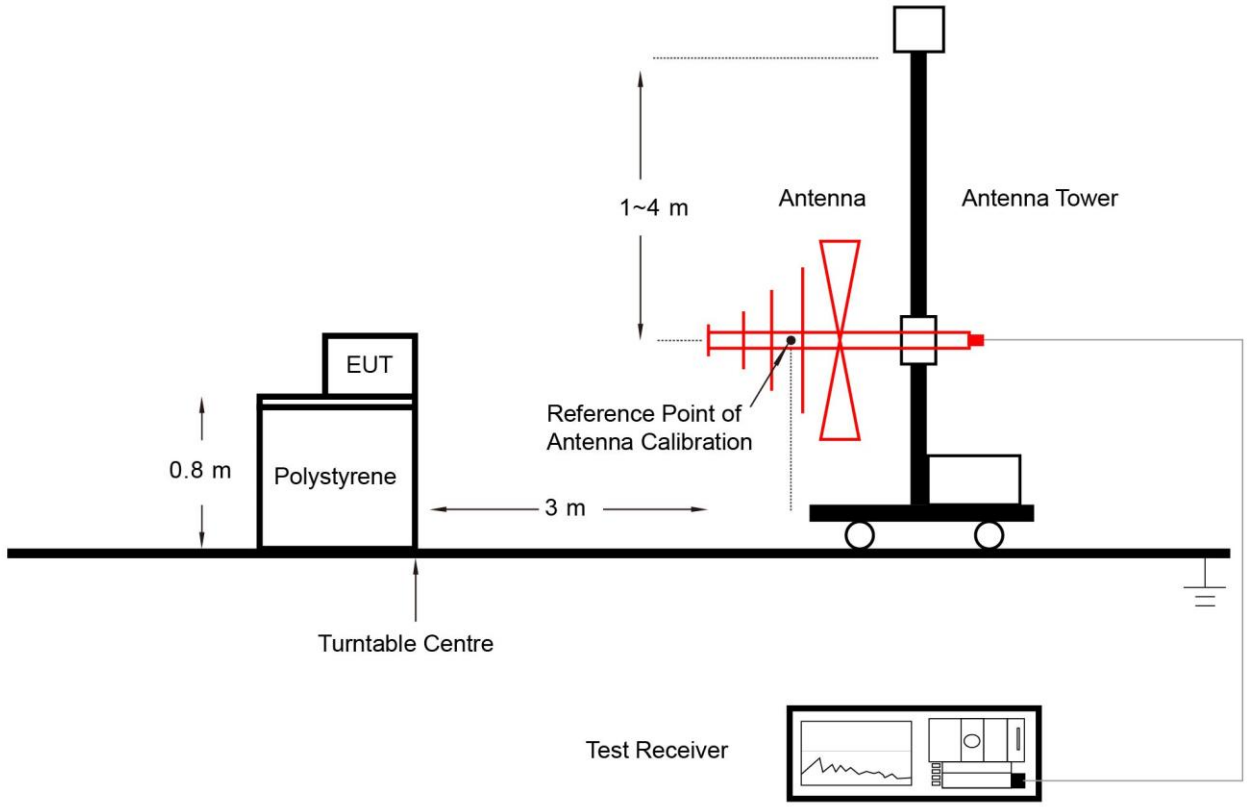
7. Trace was allowed to stabilize

6.8.4. Test Setup

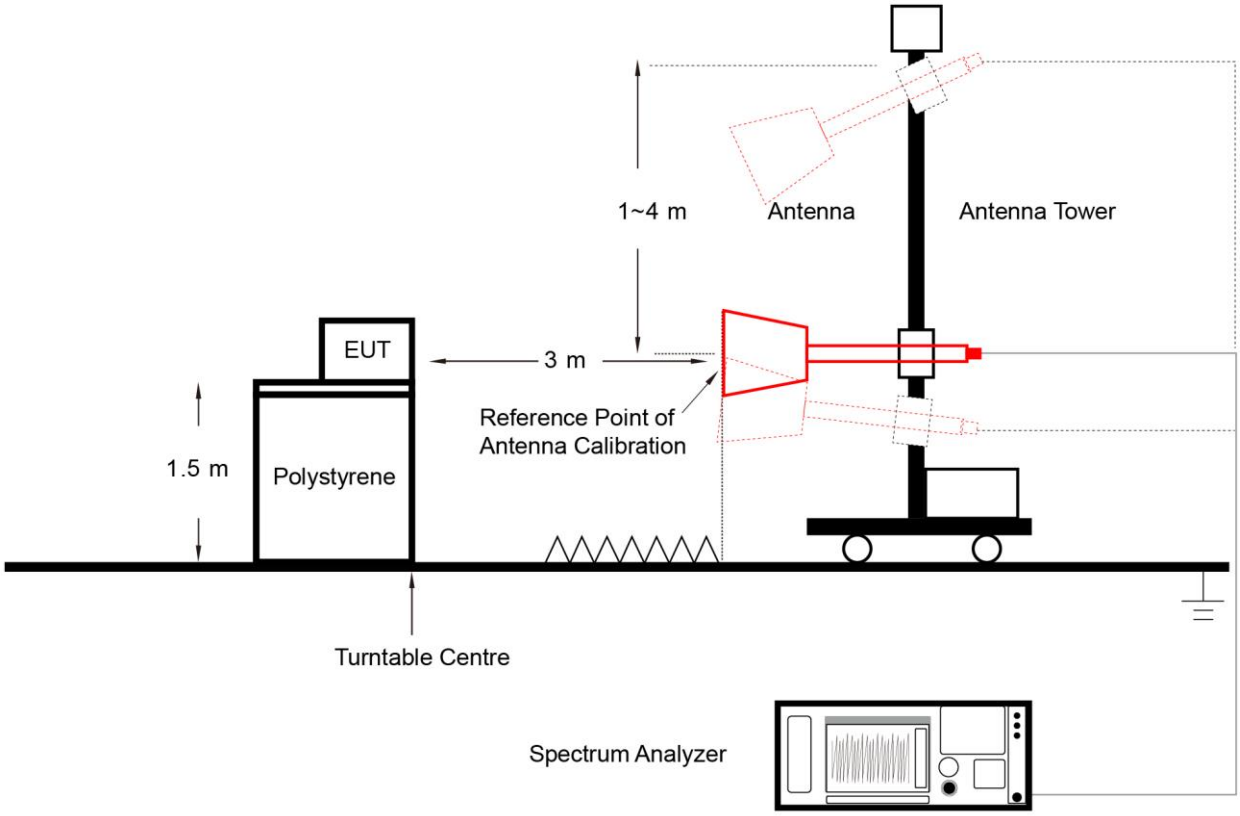
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.8.5. Test Result

Refer to Appendix A.7.

6.9. Radiated Restricted Band Edge Measurement

6.9.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.9.2. Test Procedure

KDB 789033 D02v02r01- Section II (G)

6.9.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

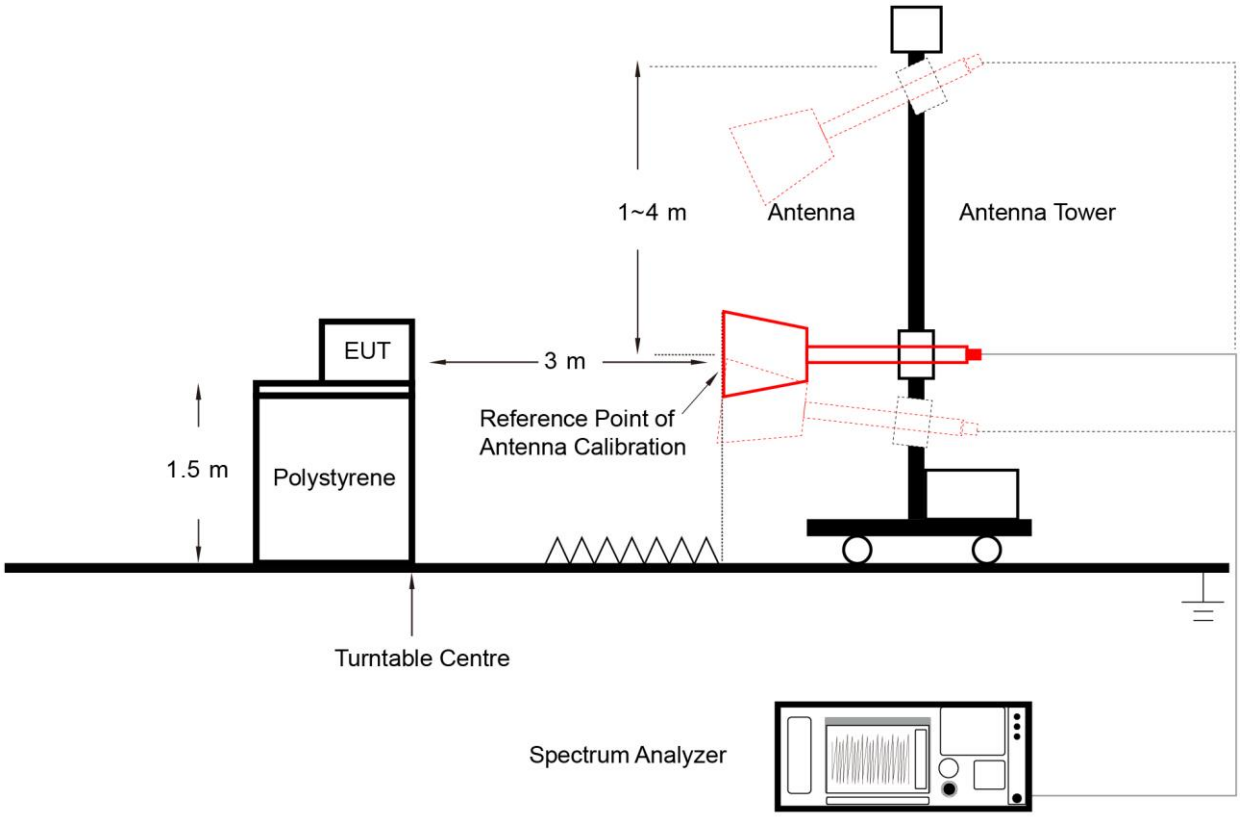
Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz
4. If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration

802.11a 6Mbps	VBW = 510Hz	802.11ac-VHT20 MCS0	VBW = 10Hz
802.11ac-VHT40 MCS0	VBW = 1.1kHz	802.11ac-VHT80 MCS0	VBW = 2.2kHz
802.11ac-VHT160 MCS0	VBW = 4.3kHz	802.11ax-HE20 MCS0	VBW = 620Hz
802.11ax-HE40 MCS0	VBW = 1.3kHz	802.11ax-HE80 MCS0	VBW = 2.4kHz
802.11ax-HE160 MCS0	VBW = 4.2kHz		

5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.9.4. Test Setup



6.9.5. Test Result

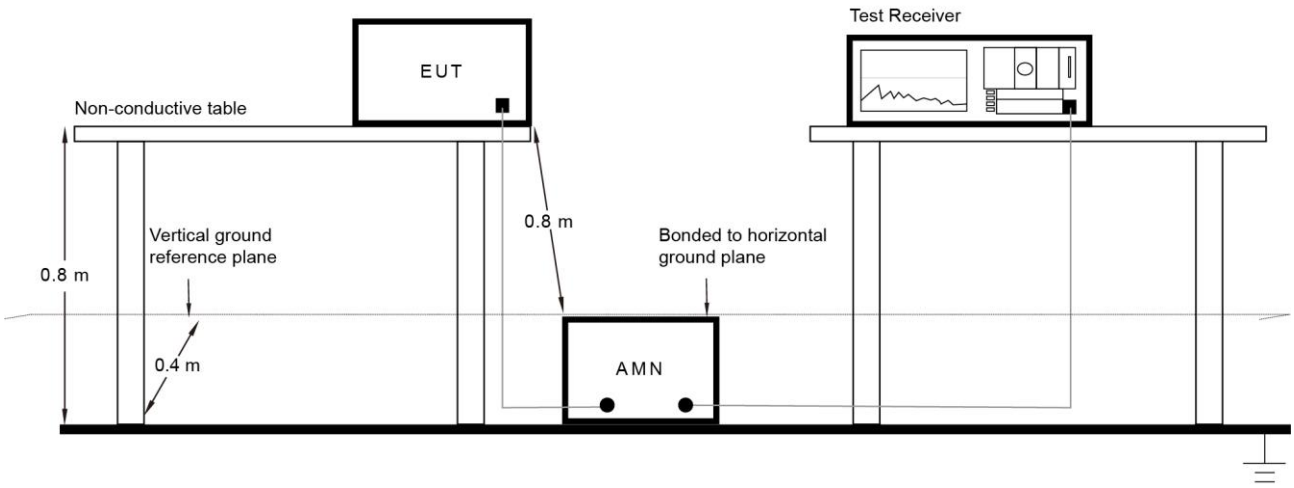
Refer to Appendix A.8.

6.10. AC Conducted Emissions Measurement

6.10.1. Test Limit

FCC Part 15.207 Limits		
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
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

6.10.2. Test Setup



6.10.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Refer to MRT report no. 2105TW0006-U4 Clause 2.8.

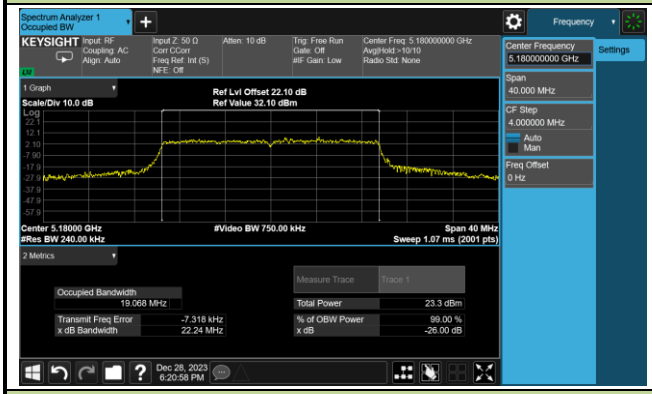
A.2 26dB & 99% Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-12-28	Filter	Partial Path Akoustic Filter
Remark	Spot Check		

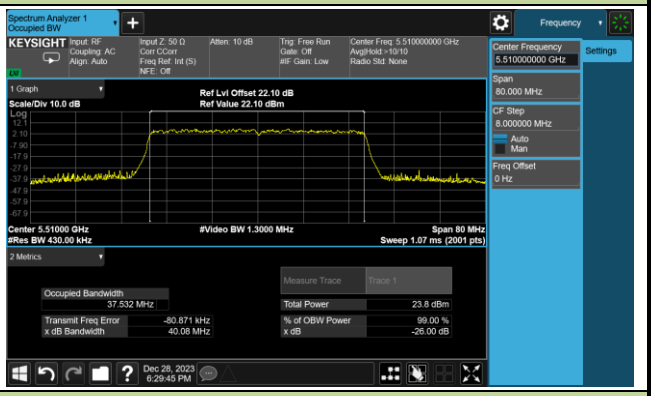
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax-HE20	MCS0	36	5180	22.24	19.068
11ax-HE40	MCS0	102	5510	40.08	37.532
11ax-HE80	MCS0	106	5530	81.33	76.769
11ax-HE160	MCS0	114	5570	163.70	155.51

26dB & 99% Bandwidth

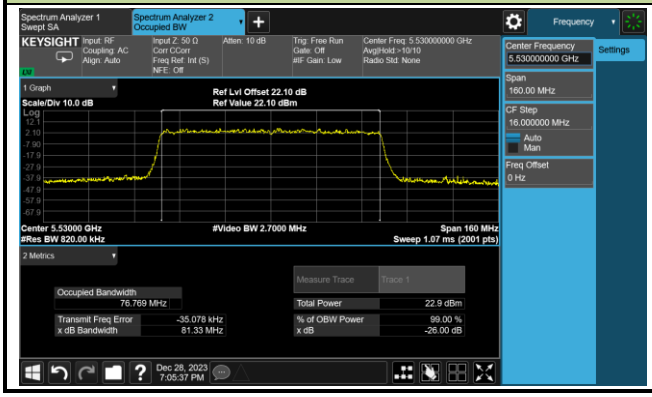
802.11ax-HE20 Channel 36 (5180MHz)



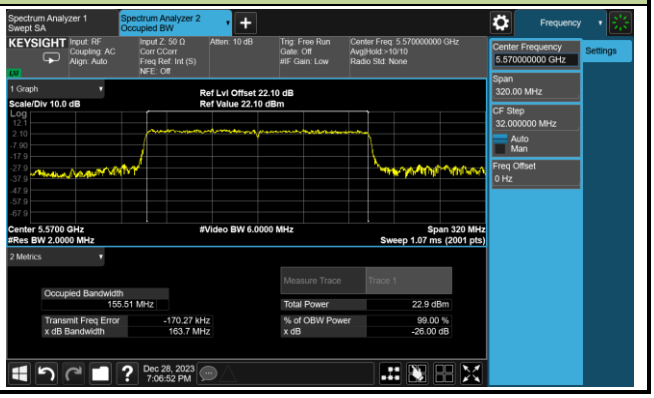
802.11ax-HE40 Channel 102 (5510MHz)



802.11ax-HE80 Channel 106 (5530MHz)



802.11ax-HE160 Channel 114 (5570MHz)



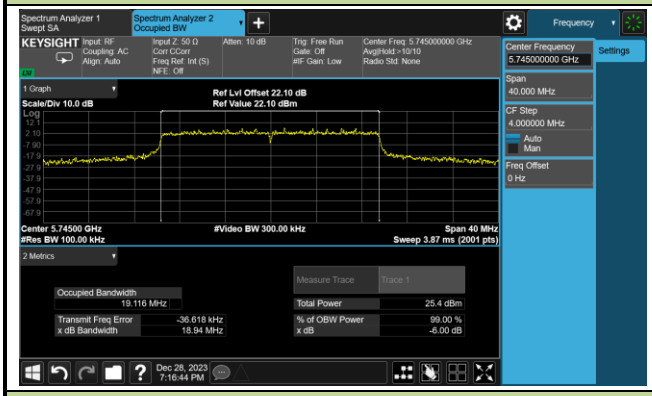
A.3 6dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-12-28	Filter	Partial Path Akoustic Filter
Remark	Spot Check		

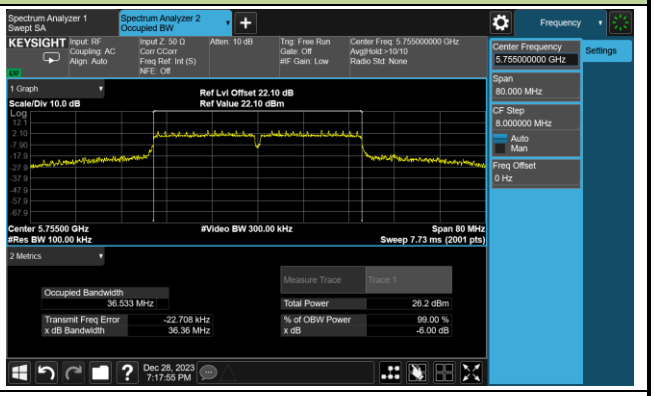
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11ax-HE20	MCS0	149	5745	18.94	≥0.5
11ac-VHT40	MCS0	151	5755	36.36	≥0.5
11ax-HE80	MCS0	155	5775	76.40	≥0.5

6dB Bandwidth

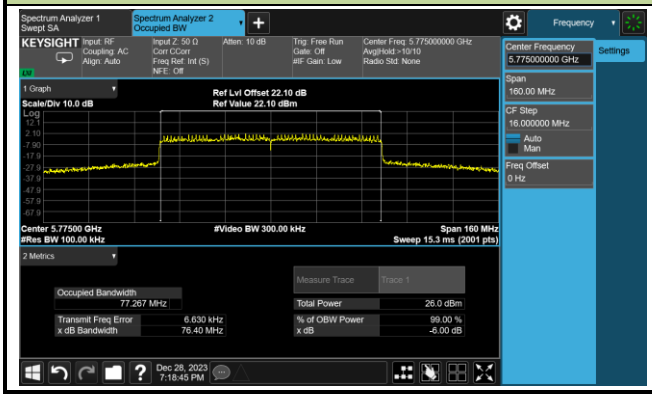
802.11ax-HE20 Channel 149 (5745MHz)



802.11ac-VHT40 Channel 151 (5755MHz)



802.11ax-HE80 Channel 155 (5775MHz)



A.4 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-11-18	Filter	Partial Path Akoustic Filter
Remark	Spot Check		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
a	6Mbps	36	5180	17.27	17.29	20.29	≤ 30.00
a	6Mbps	100	5500	16.33	15.68	19.03	≤ 23.98
a	6Mbps	149	5745	18.08	18.25	21.18	≤ 30.00
ac-VHT40	MCS0	38	5190	14.82	14.45	17.65	≤ 30.00
ac-VHT40	MCS0	151	5755	18.31	18.82	21.58	≤ 30.00
ac-VHT80	MCS0	106	5530	15.26	14.90	18.09	≤ 23.98
ax-HE20	MCS0	36	5180	16.81	16.59	19.71	≤ 30.00
ax-HE20	MCS0	100	5500	15.93	15.60	18.78	≤ 23.98
ax-HE20	MCS0	149	5745	18.46	18.69	21.59	≤ 30.00
ax-HE40	MCS0	102	5510	15.77	14.59	18.23	≤ 23.98
ax-HE80	MCS0	106	5530	14.72	14.33	17.54	≤ 23.98
ax-HE80	MCS0	155	5775	17.94	18.65	21.32	≤ 30.00
ax-HE160	MCS0	50	Straddle 5.15-5.25GHz	11.49	11.16	14.34	≤ 30.00
ax-HE160	MCS0		Straddle 5.25-5.35GHz	11.50	10.48	14.03	≤ 23.98
ax-HE160	MCS0	114	5570	14.29	13.93	17.12	≤ 23.98

Note: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 0 Average Power}/10)} + 10^{(\text{Ant 1 Average Power}/10)}\}$

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-11-18	Filter	Fulll Path Akoustic Filter
Remark	Spot Check		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
a	6Mbps	36	5180	16.88	16.67	19.79	≤ 30.00
a	6Mbps	100	5500	14.89	14.48	17.70	≤ 23.98
a	6Mbps	149	5745	17.85	18.02	20.95	≤ 30.00
ac-VHT20	MCS0	36	5180	17.27	17.16	20.23	≤ 30.00
ac-VHT20	MCS0	100	5500	16.52	16.41	19.48	≤ 23.98
ac-VHT20	MCS0	149	5745	17.76	17.92	20.85	≤ 30.00
ac-VHT80	MCS0	106	5530	14.43	13.59	17.04	≤ 23.98
ac-VHT80	MCS0	155	5775	18.27	18.81	21.56	≤ 30.00
ax-HE40	MCS0	38	5190	11.82	11.17	14.52	≤ 30.00
ax-HE40	MCS0	102	5510	11.59	10.84	14.24	≤ 23.98
ax-HE40	MCS0	151	5755	14.36	13.98	17.18	≤ 30.00
ax-HE80	MCS0	42	5210	15.14	14.74	17.95	≤ 30.00
ax-HE160	MCS0	50	Straddle 5.15-5.25GHz	15.32	14.70	18.03	≤ 30.00
ax-HE160	MCS0		Straddle 5.25-5.35GHz	17.77	17.79	20.79	≤ 23.98
ax-HE160	MCS0	114	5570	14.29	13.96	17.14	≤ 23.98

Note: Total Average Power (dBm) = $10*\log \{10^{(\text{Ant 0 Average Power /10})} + 10^{(\text{Ant 1 Average Power /10})}\}$

A.5 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-12-28	Filter	Partial Path Akoustic Filter
Test Item	Power Spectral Density (UNII-Band 1)		
Remark	Spot Check		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
11ax-HE20	MCS0	36	5180	4.610	3.659	97.82	7.27	≤ 16.20
11ax-HE40	MCS0	102	5510	0.019	-0.651	96.05	2.88	≤ 16.20
11ax-HE80	MCS0	106	5530	-3.476	-3.771	92.39	-0.27	≤ 16.20
11ax-HE160	MCS0	114	5570	-6.794	-7.064	88.02	-3.36	≤ 16.20

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$} +10*log (1/Duty cycle).

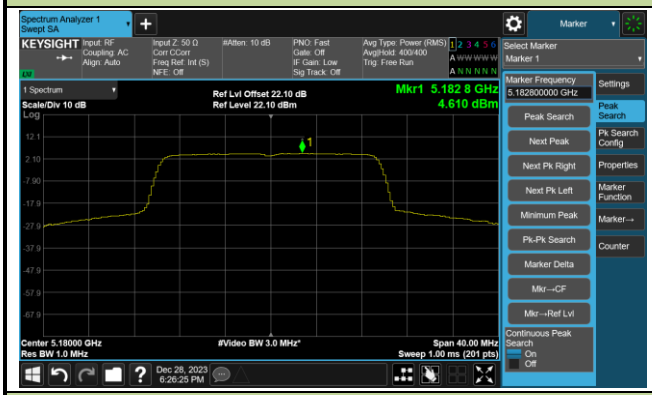
When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$}.

Note 2:

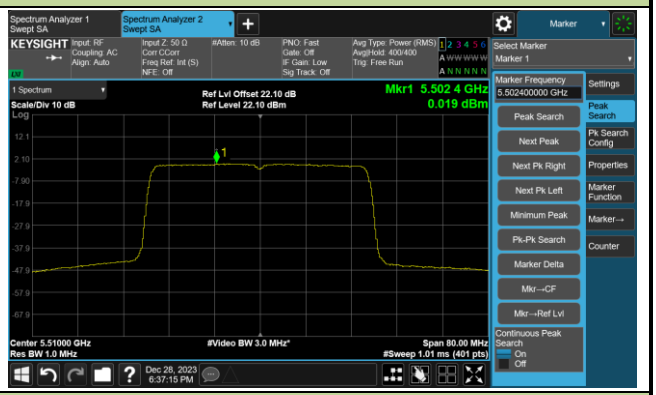
For 5125 - 5250MHz Band: PSD Limit (dBm/MHz) = 17 - (6.80 - 6) = 16.20dBm/MHz

Power Spectral Density- Ant 0

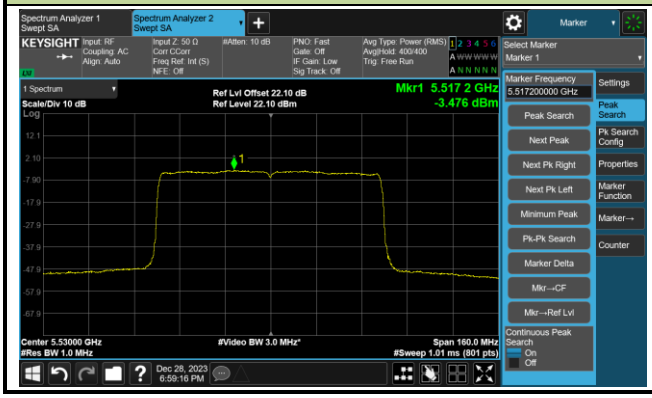
802.11ax-HE20 Channel 36 (5180MHz)



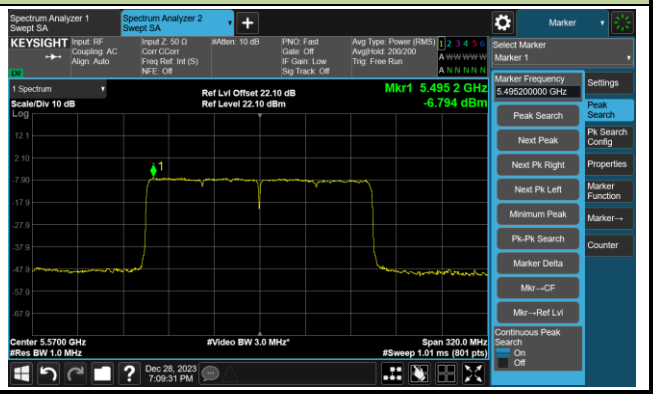
802.11ax-HE40 Channel 102 (5510MHz)

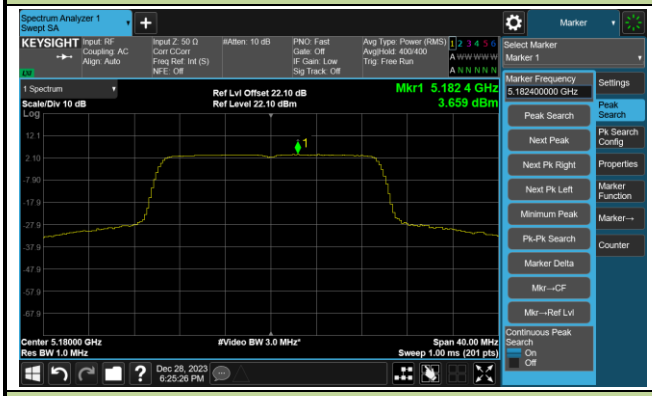
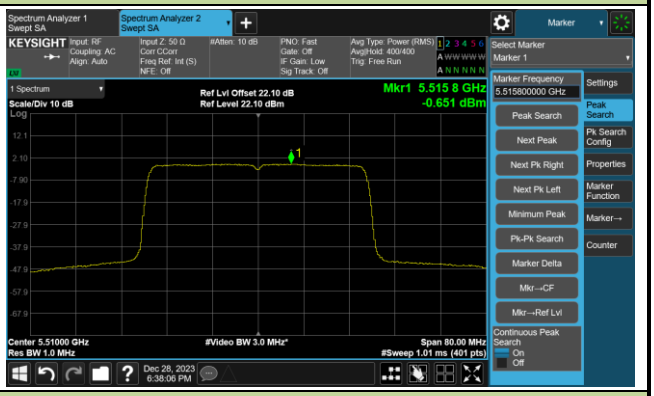
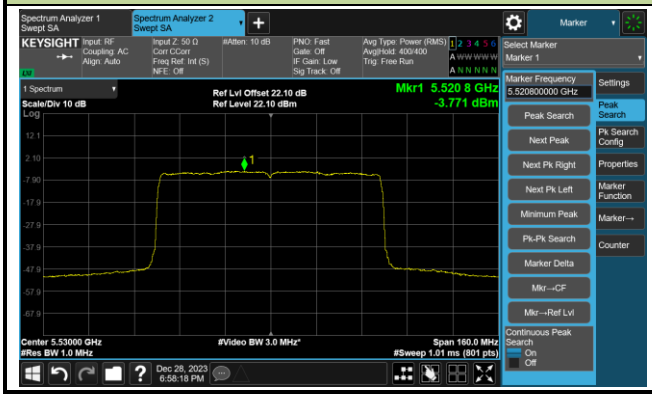
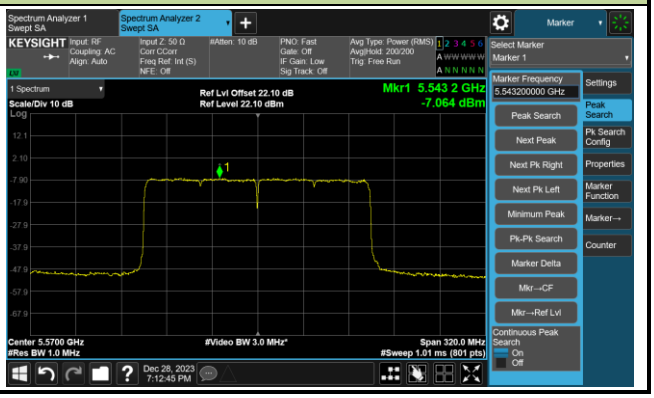


802.11ax-HE80 Channel 106 (5530MHz)



802.11ax-HE160 Channel 114 (5570MHz)



Power Spectral Density- Ant 1	
802.11ax-HE20 Channel 36 (5180MHz)	802.11ax-HE40 Channel 102 (5510MHz)
	
802.11ax-HE80 Channel 106 (5530MHz)	802.11ax-HE160 Channel 114 (5570MHz)
	

A.6 Frequency Stability Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-12-29	Test Mode	5180MHz (Carrier Mode)
Remark	Spot Check		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 20	11.37	11.35	11.29	11.31

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} $*10^6$.

A.7 Radiated Spurious Emission Test Result

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10129.0	47.2	-1.4	45.8	68.2	-22.4	Peak	Horizontal
	11455.0	48.8	-1.5	47.3	74.0	-26.7	Peak	Horizontal
*	14056.0	46.9	3.0	49.9	68.2	-18.3	Peak	Horizontal
	15688.0	45.8	4.8	50.6	74.0	-23.4	Peak	Horizontal
*	9279.0	48.5	-1.3	47.2	68.2	-21.0	Peak	Vertical
	11803.5	48.3	-1.9	46.4	74.0	-27.6	Peak	Vertical
*	14056.0	48.0	3.0	51.0	68.2	-17.2	Peak	Vertical
	15577.5	45.3	4.6	49.9	74.0	-24.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10426.5	47.9	-1.4	46.5	68.2	-21.7	Peak	Horizontal
	11812.0	49.6	-1.8	47.8	74.0	-26.2	Peak	Horizontal
*	14064.5	46.9	2.9	49.8	68.2	-18.4	Peak	Horizontal
	15815.5	45.9	4.7	50.6	74.0	-23.4	Peak	Horizontal
*	10350.0	48.0	-1.5	46.5	68.2	-21.7	Peak	Vertical
	11633.5	48.6	-1.7	46.9	74.0	-27.1	Peak	Vertical
*	14141.0	47.5	2.9	50.4	68.2	-17.8	Peak	Vertical
	15586.0	45.6	4.5	50.1	74.0	-23.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10061.0	47.9	-1.5	46.4	68.2	-21.8	Peak	Horizontal
	11140.5	48.3	-1.4	46.9	74.0	-27.1	Peak	Horizontal
*	14260.0	48.2	3.1	51.3	68.2	-16.9	Peak	Horizontal
	15484.0	46.1	4.5	50.6	74.0	-23.4	Peak	Horizontal
*	10044.0	48.0	-1.8	46.2	68.2	-22.0	Peak	Vertical
	11727.0	48.9	-1.7	47.2	74.0	-26.8	Peak	Vertical
*	14175.0	46.5	3.7	50.2	68.2	-18.0	Peak	Vertical
	15484.0	45.5	4.5	50.0	74.0	-24.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10384.0	47.6	-1.5	46.1	68.2	-22.1	Peak	Horizontal
	11633.5	48.4	-1.7	46.7	74.0	-27.3	Peak	Horizontal
*	13860.5	48.0	2.4	50.4	68.2	-17.8	Peak	Horizontal
	15586.0	45.3	4.5	49.8	74.0	-24.2	Peak	Horizontal
*	9959.0	47.9	-1.6	46.3	68.2	-21.9	Peak	Vertical
	11888.5	48.7	-1.8	46.9	74.0	-27.1	Peak	Vertical
*	14175.0	46.9	3.7	50.6	68.2	-17.6	Peak	Vertical
	15671.0	46.1	4.6	50.7	74.0	-23.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10341.5	47.8	-1.3	46.5	68.2	-21.7	Peak	Horizontal
	11633.5	49.3	-1.7	47.6	74.0	-26.4	Peak	Horizontal
*	14251.5	47.4	3.0	50.4	68.2	-17.8	Peak	Horizontal
	15764.5	45.7	4.6	50.3	74.0	-23.7	Peak	Horizontal
*	9959.0	47.6	-1.6	46.0	68.2	-22.2	Peak	Vertical
	11718.5	48.8	-1.7	47.1	74.0	-26.9	Peak	Vertical
*	14081.5	46.9	2.9	49.8	68.2	-18.4	Peak	Vertical
	15467.0	45.9	4.6	50.5	74.0	-23.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10596.5	48.9	-1.2	47.7	68.2	-20.5	Peak	Horizontal
	12084.0	48.9	-1.8	47.1	74.0	-26.9	Peak	Horizontal
*	14090.0	47.1	3.0	50.1	68.2	-18.1	Peak	Horizontal
	15484.0	45.7	4.5	50.2	74.0	-23.8	Peak	Horizontal
*	9695.5	48.4	-2.1	46.3	68.2	-21.9	Peak	Vertical
	12483.5	48.7	-1.3	47.4	74.0	-26.6	Peak	Vertical
*	13979.5	47.2	2.6	49.8	68.2	-18.4	Peak	Vertical
	15713.5	46.0	4.8	50.8	74.0	-23.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 38 – 5190MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9882.5	47.6	-1.9	45.7	68.2	-22.5	Peak	Horizontal
	11710.0	48.5	-1.6	46.9	74.0	-27.1	Peak	Horizontal
*	14081.5	47.0	2.9	49.9	68.2	-18.3	Peak	Horizontal
	15790.0	45.8	5.0	50.8	74.0	-23.2	Peak	Horizontal
*	9976.0	47.6	-1.5	46.1	68.2	-22.1	Peak	Vertical
	11523.0	48.2	-1.5	46.7	74.0	-27.3	Peak	Vertical
*	13860.5	47.8	2.4	50.2	68.2	-18.0	Peak	Vertical
	15560.5	45.7	4.6	50.3	74.0	-23.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 102 – 5510MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB/m)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	10324.5	47.1	-1.2	45.9	68.2	-22.3	Peak	Horizontal
	11897.0	48.7	-1.7	47.0	74.0	-27.0	Peak	Horizontal
*	13945.5	48.0	2.3	50.3	68.2	-17.9	Peak	Horizontal
	15909.0	45.5	5.2	50.7	74.0	-23.3	Peak	Horizontal
*	10307.5	48.3	-1.2	47.1	68.2	-21.1	Peak	Vertical
	11217.0	48.5	-1.6	46.9	74.0	-27.1	Peak	Vertical
*	13758.5	47.4	2.1	49.5	68.2	-18.7	Peak	Vertical
	15679.5	45.5	4.7	50.2	74.0	-23.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 151 – 5755MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10554.0	48.7	-1.6	47.1	68.2	-21.1	Peak	Horizontal
	11608.0	48.9	-1.6	47.3	74.0	-26.7	Peak	Horizontal
*	14183.5	47.3	3.2	50.5	68.2	-17.7	Peak	Horizontal
	15679.5	45.9	4.7	50.6	74.0	-23.4	Peak	Horizontal
*	10307.5	47.5	-1.2	46.3	68.2	-21.9	Peak	Vertical
	11565.5	49.2	-1.9	47.3	74.0	-26.7	Peak	Vertical
*	14243.0	47.6	2.8	50.4	68.2	-17.8	Peak	Vertical
	15586.0	45.4	4.5	49.9	74.0	-24.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 42 – 5210MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10154.5	47.5	-1.6	45.9	68.2	-22.3	Peak	Horizontal
	12203.0	48.8	-1.6	47.2	74.0	-26.8	Peak	Horizontal
*	14158.0	47.9	3.1	51.0	68.2	-17.2	Peak	Horizontal
	15807.0	45.9	4.9	50.8	74.0	-23.2	Peak	Horizontal
*	9950.5	47.6	-1.6	46.0	68.2	-22.2	Peak	Vertical
	11531.5	48.4	-1.5	46.9	74.0	-27.1	Peak	Vertical
*	14234.5	47.2	2.9	50.1	68.2	-18.1	Peak	Vertical
	15620.0	46.2	3.8	50.0	74.0	-24.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 151 – 5530MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9568.0	48.4	-1.9	46.5	68.2	-21.7	Peak	Horizontal
	11327.5	48.2	-1.5	46.7	74.0	-27.3	Peak	Horizontal
*	14217.5	47.8	3.0	50.8	68.2	-17.4	Peak	Horizontal
	15594.5	46.0	4.2	50.2	74.0	-23.8	Peak	Horizontal
*	10392.5	48.5	-1.4	47.1	68.2	-21.1	Peak	Vertical
	11157.5	48.0	-1.3	46.7	74.0	-27.3	Peak	Vertical
*	14158.0	47.1	3.1	50.2	68.2	-18.0	Peak	Vertical
	15713.5	45.6	4.8	50.4	74.0	-23.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 155 – 5775MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9593.5	48.5	-1.9	46.6	68.2	-21.6	Peak	Horizontal
	11710.0	49.0	-1.6	47.4	74.0	-26.6	Peak	Horizontal
*	14039.0	46.4	2.7	49.1	68.2	-19.1	Peak	Horizontal
	15679.5	45.5	4.7	50.2	74.0	-23.8	Peak	Horizontal
*	10154.5	48.1	-1.6	46.5	68.2	-21.7	Peak	Vertical
	11378.5	48.6	-1.8	46.8	74.0	-27.2	Peak	Vertical
*	14056.0	47.3	3.0	50.3	68.2	-17.9	Peak	Vertical
	15773.0	45.5	4.9	50.4	74.0	-23.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT160_NSS=1 (MCS0) – Channel 50 – 5250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11149.0	47.8	-1.4	46.4	74.0	-27.6	Peak	Horizontal
*	12832.0	48.1	-0.3	47.8	68.2	-20.4	Peak	Horizontal
*	14056.0	47.1	3.0	50.1	68.2	-18.1	Peak	Horizontal
	15696.5	45.3	4.9	50.2	74.0	-23.8	Peak	Horizontal
*	10316.0	47.9	-1.1	46.8	68.2	-21.4	Peak	Vertical
	11557.0	48.6	-1.9	46.7	74.0	-27.3	Peak	Vertical
*	14175.0	46.5	3.7	50.2	68.2	-18.0	Peak	Vertical
	15713.5	45.9	4.8	50.7	74.0	-23.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ac-VHT160_NSS=1 (MCS0) – Channel 114 – 5570MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9848.5	48.8	-1.8	47.0	68.2	-21.2	Peak	Horizontal
	11429.5	48.6	-1.5	47.1	74.0	-26.9	Peak	Horizontal
*	13894.5	47.7	2.5	50.2	68.2	-18.0	Peak	Horizontal
	15543.5	45.8	4.3	50.1	74.0	-23.9	Peak	Horizontal
*	9610.5	48.6	-2.0	46.6	68.2	-21.6	Peak	Vertical
	11166.0	48.1	-1.3	46.8	74.0	-27.2	Peak	Vertical
*	14166.5	47.6	3.4	51.0	68.2	-17.2	Peak	Vertical
	15569.0	45.2	4.6	49.8	74.0	-24.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS0) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10205.5	48.3	-1.6	46.7	68.2	-21.5	Peak	Horizontal
	11633.5	48.8	-1.7	47.1	74.0	-26.9	Peak	Horizontal
*	14226.0	47.6	3.0	50.6	68.2	-17.6	Peak	Horizontal
	15688.0	45.9	4.8	50.7	74.0	-23.3	Peak	Horizontal
*	10052.5	47.8	-1.6	46.2	68.2	-22.0	Peak	Vertical
	11914.0	48.8	-1.8	47.0	74.0	-27.0	Peak	Vertical
*	14090.0	46.8	3.0	49.8	68.2	-18.4	Peak	Vertical
	15781.5	45.9	5.0	50.9	74.0	-23.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by802.11ax-HE20_NSS=1 (MCS0) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10129.0	47.9	-1.4	46.5	68.2	-21.7	Peak	Horizontal
	11438.0	47.8	-1.4	46.4	74.0	-27.6	Peak	Horizontal
*	14166.5	47.2	3.4	50.6	68.2	-17.6	Peak	Horizontal
	15764.5	46.1	4.6	50.7	74.0	-23.3	Peak	Horizontal
*	9763.5	48.1	-2.0	46.1	68.2	-22.1	Peak	Vertical
	11625.0	48.6	-1.6	47.0	74.0	-27.0	Peak	Vertical
*	14132.5	47.5	2.9	50.4	68.2	-17.8	Peak	Vertical
	15543.5	34.6	4.3	38.9	54.0	-15.1	Average	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by802.11ax-HE20_NSS=1 (MCS0) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10426.5	48.9	-1.4	47.5	68.2	-20.7	Peak	Horizontal
	11710.0	48.5	-1.6	46.9	74.0	-27.1	Peak	Horizontal
*	14013.5	47.5	2.6	50.1	68.2	-18.1	Peak	Horizontal
	15535.0	45.1	4.1	49.2	74.0	-24.8	Peak	Horizontal
*	10129.0	47.3	-1.4	45.9	68.2	-22.3	Peak	Vertical
	11667.5	48.6	-1.7	46.9	74.0	-27.1	Peak	Vertical
*	14090.0	47.1	3.0	50.1	68.2	-18.1	Peak	Vertical
	15586.0	45.3	4.5	49.8	74.0	-24.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by802.11ax-HE40_NSS=1 (MCS0) – Channel 38 – 5190MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10392.5	48.2	-1.4	46.8	68.2	-21.4	Peak	Horizontal
	11633.5	48.9	-1.7	47.2	74.0	-26.8	Peak	Horizontal
*	14149.5	47.1	3.0	50.1	68.2	-18.1	Peak	Horizontal
	15560.5	45.9	4.6	50.5	74.0	-23.5	Peak	Horizontal
*	9636.0	49.0	-2.2	46.8	68.2	-21.4	Peak	Vertical
	11446.5	48.2	-1.5	46.7	74.0	-27.3	Peak	Vertical
*	14166.5	46.5	3.4	49.9	68.2	-18.3	Peak	Vertical
	15926.0	45.4	5.1	50.5	74.0	-23.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by802.11ax-HE40_NSS=1 (MCS0) – Channel 102 – 5510MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9772.0	48.6	-2.0	46.6	68.2	-21.6	Peak	Horizontal
	11812.0	48.5	-1.8	46.7	74.0	-27.3	Peak	Horizontal
*	14081.5	47.2	2.9	50.1	68.2	-18.1	Peak	Horizontal
	15875.0	45.7	5.1	50.8	74.0	-23.2	Peak	Horizontal
*	10188.5	47.7	-1.6	46.1	68.2	-22.1	Peak	Vertical
	11429.5	48.2	-1.5	46.7	74.0	-27.3	Peak	Vertical
*	14175.0	46.4	3.7	50.1	68.2	-18.1	Peak	Vertical
	15688.0	45.8	4.8	50.6	74.0	-23.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by802.11ax-HE40_NSS=1 (MCS0) – Channel 151 – 5755MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10333.0	48.1	-1.2	46.9	68.2	-21.3	Peak	Horizontal
	11531.5	48.4	-1.5	46.9	74.0	-27.1	Peak	Horizontal
*	14251.5	47.1	3.0	50.1	68.2	-18.1	Peak	Horizontal
	16062.0	45.6	5.0	50.6	74.0	-23.4	Peak	Horizontal
*	10035.5	48.6	-1.7	46.9	68.2	-21.3	Peak	Vertical
	11531.5	48.0	-1.5	46.5	74.0	-27.5	Peak	Vertical
*	14158.0	47.1	3.1	50.2	68.2	-18.0	Peak	Vertical
	15985.5	45.6	5.2	50.8	74.0	-23.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 42 – 5210MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10154.5	48.4	-1.6	46.8	68.2	-21.4	Peak	Horizontal
	12211.5	49.0	-1.7	47.3	74.0	-26.7	Peak	Horizontal
*	14090.0	47.0	3.0	50.0	68.2	-18.2	Peak	Horizontal
	15543.5	46.3	4.3	50.6	74.0	-23.4	Peak	Horizontal
*	9644.5	48.6	-2.1	46.5	68.2	-21.7	Peak	Vertical
	11336.0	48.5	-1.4	47.1	74.0	-26.9	Peak	Vertical
*	13775.5	48.0	2.1	50.1	68.2	-18.1	Peak	Vertical
	16079.0	45.9	4.7	50.6	74.0	-23.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 151 – 5530MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9848.5	48.7	-1.8	46.9	68.2	-21.3	Peak	Horizontal
	11625.0	48.7	-1.6	47.1	74.0	-26.9	Peak	Horizontal
*	14209.0	47.9	3.0	50.9	68.2	-17.3	Peak	Horizontal
	15917.5	45.8	5.1	50.9	74.0	-23.1	Peak	Horizontal
*	9814.5	48.8	-2.0	46.8	68.2	-21.4	Peak	Vertical
	11616.5	48.4	-1.6	46.8	74.0	-27.2	Peak	Vertical
*	13852.0	47.8	2.4	50.2	68.2	-18.0	Peak	Vertical
	15560.5	45.7	4.6	50.3	74.0	-23.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 155 – 5775MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10137.5	47.9	-1.5	46.4	68.2	-21.8	Peak	Horizontal
	12135.0	49.3	-1.7	47.6	74.0	-26.4	Peak	Horizontal
*	14260.0	46.7	3.1	49.8	68.2	-18.4	Peak	Horizontal
	15662.5	45.9	4.3	50.2	74.0	-23.8	Peak	Horizontal
*	10256.5	47.3	-1.5	45.8	68.2	-22.4	Peak	Vertical
	11744.0	48.6	-1.8	46.8	74.0	-27.2	Peak	Vertical
*	14039.0	47.2	2.7	49.9	68.2	-18.3	Peak	Vertical
	15883.5	45.6	5.1	50.7	74.0	-23.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE160_NSS=1 (MCS0) – Channel 50 – 5250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9755.0	49.0	-2.0	47.0	68.2	-21.2	Peak	Horizontal
	11659.0	48.8	-1.7	47.1	74.0	-26.9	Peak	Horizontal
*	14073.0	46.9	2.9	49.8	68.2	-18.4	Peak	Horizontal
	15781.5	45.9	5.0	50.9	74.0	-23.1	Peak	Horizontal
*	10231.0	47.8	-1.4	46.4	68.2	-21.8	Peak	Vertical
	11038.5	48.7	-1.4	47.3	74.0	-26.7	Peak	Vertical
*	13716.0	47.6	1.9	49.5	68.2	-18.7	Peak	Vertical
	15560.5	45.1	4.6	49.7	74.0	-24.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-19 ~ 2023-10-20	Test Mode	Transmit by 802.11ax-HE160_NSS=1 (MCS0) – Channel 114 – 5570MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Partial Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB/m)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	10010.0	48.1	-1.8	46.3	68.2	-21.9	Peak	Horizontal
	12271.0	49.2	-1.8	47.4	74.0	-26.6	Peak	Horizontal
*	14175.0	46.7	3.7	50.4	68.2	-17.8	Peak	Horizontal
	15569.0	46.0	4.6	50.6	74.0	-23.4	Peak	Horizontal
*	10307.5	48.7	-1.2	47.5	68.2	-20.7	Peak	Vertical
	11480.5	48.9	-1.6	47.3	74.0	-26.7	Peak	Vertical
*	14124.0	47.7	2.9	50.6	68.2	-17.6	Peak	Vertical
	15467.0	46.1	4.6	50.7	74.0	-23.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10231.0	47.8	-1.2	46.6	68.2	-21.6	Peak	Horizontal
	11438.0	48.8	-1.0	47.8	74.0	-26.2	Peak	Horizontal
*	13869.0	48.0	2.2	50.2	68.2	-18.0	Peak	Horizontal
	15467.0	45.8	4.9	50.7	74.0	-23.3	Peak	Horizontal
*	10231.0	47.5	-1.2	46.3	68.2	-21.9	Peak	Vertical
	11421.0	48.2	-1.0	47.2	74.0	-26.8	Peak	Vertical
*	13682.0	48.1	1.2	49.3	68.2	-18.9	Peak	Vertical
	15603.0	46.0	4.5	50.5	74.0	-23.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9670.0	48.6	-1.9	46.7	68.2	-21.5	Peak	Horizontal
	12101.0	48.9	-1.4	47.5	74.0	-26.5	Peak	Horizontal
*	14141.0	47.4	2.3	49.7	68.2	-18.5	Peak	Horizontal
	15552.0	35.0	5.0	40.0	54.0	-14.0	AV	Horizontal
*	10409.5	47.5	-1.2	46.3	68.2	-21.9	Peak	Vertical
	11948.0	48.6	-1.2	47.4	74.0	-26.6	Peak	Vertical
*	14132.5	47.6	2.3	49.9	68.2	-18.3	Peak	Vertical
	15535.0	45.7	4.6	50.3	74.0	-23.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11a_NSS=1 (6Mbps) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8403.5	48.4	-3.2	45.2	74.0	-28.8	Peak	Horizontal
	9959.0	48.2	-1.5	46.7	68.2	-21.5	Peak	Horizontal
*	11701.5	49.8	-1.3	48.5	74.0	-25.5	Peak	Horizontal
	16640.0	47.0	6.6	53.6	68.2	-14.6	Peak	Horizontal
*	10137.5	48.0	-1.4	46.6	68.2	-21.6	Peak	Vertical
	11497.5	48.6	-1.3	47.3	74.0	-26.7	Peak	Vertical
*	14098.5	47.4	2.3	49.7	68.2	-18.5	Peak	Vertical
	15560.5	45.5	5.1	50.6	74.0	-23.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10010.0	48.0	-1.7	46.3	68.2	-21.9	Peak	Horizontal
	12177.5	48.6	-1.2	47.4	74.0	-26.6	Peak	Horizontal
*	14081.5	47.7	2.3	50.0	68.2	-18.2	Peak	Horizontal
	15696.5	45.5	5.3	50.8	74.0	-23.2	Peak	Horizontal
*	10324.5	48.0	-1.0	47.0	68.2	-21.2	Peak	Vertical
	12041.5	49.2	-1.4	47.8	74.0	-26.2	Peak	Vertical
*	14183.5	48.1	2.6	50.7	68.2	-17.5	Peak	Vertical
	15696.5	46.3	5.3	51.6	74.0	-22.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10324.5	47.8	-1.0	46.8	68.2	-21.4	Peak	Horizontal
	11837.5	48.9	-1.5	47.4	74.0	-26.6	Peak	Horizontal
*	13597.0	48.2	0.6	48.8	68.2	-19.4	Peak	Horizontal
	15892.0	46.1	5.6	51.7	74.0	-22.3	Peak	Horizontal
*	10520.0	48.9	-1.0	47.9	68.2	-20.3	Peak	Vertical
	11531.5	48.2	-1.2	47.0	74.0	-27.0	Peak	Vertical
*	14124.0	47.3	2.4	49.7	68.2	-18.5	Peak	Vertical
	15756.0	46.4	4.9	51.3	74.0	-22.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT20_NSS=1 (MCS0) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10120.5	46.6	-1.4	45.2	68.2	-23.0	Peak	Horizontal
	11718.5	48.5	-1.3	47.2	74.0	-26.8	Peak	Horizontal
*	14175.0	46.5	3.1	49.6	68.2	-18.6	Peak	Horizontal
	15569.0	34.6	5.1	39.7	54.0	-14.3	Average	Horizontal
*	10333.0	48.0	-1.0	47.0	68.2	-21.2	Peak	Vertical
	11625.0	49.2	-1.3	47.9	74.0	-26.1	Peak	Vertical
*	14158.0	47.5	2.5	50.0	68.2	-18.2	Peak	Vertical
	15705.0	35.2	5.4	40.6	54.0	-13.4	Average	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 38 – 5190MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10095.0	48.2	-1.4	46.8	68.2	-21.4	Peak	Horizontal
	12398.5	48.4	-0.9	47.5	74.0	-26.5	Peak	Horizontal
*	13869.0	49.1	2.2	51.3	68.2	-16.9	Peak	Horizontal
	15560.5	33.5	5.1	38.6	54.0	-15.4	Average	Horizontal
*	8420.5	48.9	-3.2	45.7	74.0	-28.3	Peak	Vertical
	10273.5	48.1	-1.3	46.8	68.2	-21.4	Peak	Vertical
*	11752.5	49.5	-1.4	48.1	74.0	-25.9	Peak	Vertical
	14166.5	47.6	2.8	50.4	68.2	-17.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 102 – 5510MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8327.0	48.3	-3.4	44.9	74.0	-29.1	Peak	Horizontal
	10316.0	47.7	-0.9	46.8	68.2	-21.4	Peak	Horizontal
*	11344.5	48.2	-1.0	47.2	74.0	-26.8	Peak	Horizontal
	14175.0	46.5	3.1	49.6	68.2	-18.6	Peak	Horizontal
*	8174.0	49.1	-3.6	45.5	74.0	-28.5	Peak	Vertical
	10324.5	47.7	-1.0	46.7	68.2	-21.5	Peak	Vertical
*	11344.5	48.0	-1.0	47.0	74.0	-27.0	Peak	Vertical
	13767.0	47.6	1.8	49.4	68.2	-18.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT40_NSS=1 (MCS0) – Channel 151 – 5755MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB/m)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	10069.5	47.9	-1.4	46.5	68.2	-21.7	Peak	Horizontal
	11616.5	48.8	-1.3	47.5	74.0	-26.5	Peak	Horizontal
*	14047.5	47.5	2.2	49.7	68.2	-18.5	Peak	Horizontal
	15671.0	45.4	5.0	50.4	74.0	-23.6	Peak	Horizontal
*	10248.0	48.5	-1.3	47.2	68.2	-21.0	Peak	Vertical
	11344.5	48.9	-1.0	47.9	74.0	-26.1	Peak	Vertical
*	13869.0	47.1	2.2	49.3	68.2	-18.9	Peak	Vertical
	15560.5	45.5	5.1	50.6	74.0	-23.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 42 – 5210MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8208.0	48.3	-3.2	45.1	74.0	-28.9	Peak	Horizontal
*	10299.0	48.7	-1.1	47.6	68.2	-20.6	Peak	Horizontal
	11905.5	49.3	-1.4	47.9	74.0	-26.1	Peak	Horizontal
*	13826.5	48.0	1.8	49.8	68.2	-18.4	Peak	Horizontal
*	10120.5	48.0	-1.4	46.6	68.2	-21.6	Peak	Vertical
	11327.5	48.3	-1.0	47.3	74.0	-26.7	Peak	Vertical
*	14132.5	48.0	2.3	50.3	68.2	-17.9	Peak	Vertical
	15475.5	45.4	4.9	50.3	74.0	-23.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 151 – 5530MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9857.0	47.9	-1.6	46.3	68.2	-21.9	Peak	Horizontal
	11234.0	48.1	-1.1	47.0	74.0	-27.0	Peak	Horizontal
*	14158.0	47.6	2.5	50.1	68.2	-18.1	Peak	Horizontal
	15560.5	45.4	5.1	50.5	74.0	-23.5	Peak	Horizontal
	8412.0	49.6	-3.2	46.4	74.0	-27.6	Peak	Vertical
*	10120.5	47.5	-1.4	46.1	68.2	-22.1	Peak	Vertical
	11217.0	49.2	-1.3	47.9	74.0	-26.1	Peak	Vertical
*	13903.0	47.7	2.1	49.8	68.2	-18.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT80_NSS=1 (MCS0) – Channel 155 – 5775MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8352.5	49.3	-3.4	45.9	74.0	-28.1	Peak	Horizontal
*	10061.0	48.8	-1.4	47.4	68.2	-20.8	Peak	Horizontal
	12126.5	48.4	-1.4	47.0	74.0	-27.0	Peak	Horizontal
*	13920.0	48.1	2.0	50.1	68.2	-18.1	Peak	Horizontal
	8174.0	49.0	-3.6	45.4	74.0	-28.6	Peak	Vertical
*	10307.5	47.2	-1.0	46.2	68.2	-22.0	Peak	Vertical
	11514.5	49.3	-1.3	48.0	74.0	-26.0	Peak	Vertical
*	14260.0	46.7	2.5	49.2	68.2	-19.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT160_NSS=1 (MCS0) – Channel 50 – 5250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8412.0	48.4	-3.2	45.2	74.0	-28.8	Peak	Horizontal
*	10418.0	48.7	-1.2	47.5	68.2	-20.7	Peak	Horizontal
	11438.0	49.3	-1.0	48.3	74.0	-25.7	Peak	Horizontal
*	13869.0	47.1	2.2	49.3	68.2	-18.9	Peak	Horizontal
	9015.5	50.1	-2.2	47.9	74.0	-26.1	Peak	Vertical
*	10341.5	48.2	-1.1	47.1	68.2	-21.1	Peak	Vertical
	11905.5	49.2	-1.4	47.8	74.0	-26.2	Peak	Vertical
*	14175.0	46.3	3.1	49.4	68.2	-18.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ac-VHT160_NSS=1 (MCS0) – Channel 114 – 5570MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9415.0	49.0	-2.3	46.7	74.0	-27.3	Peak	Horizontal
*	10061.0	47.7	-1.4	46.3	68.2	-21.9	Peak	Horizontal
	11463.5	48.3	-1.2	47.1	74.0	-26.9	Peak	Horizontal
*	14047.5	47.4	2.2	49.6	68.2	-18.6	Peak	Horizontal
	8208.0	49.3	-3.2	46.1	74.0	-27.9	Peak	Vertical
*	10222.5	47.5	-1.3	46.2	68.2	-22.0	Peak	Vertical
	11880.0	48.2	-1.4	46.8	74.0	-27.2	Peak	Vertical
*	14175.0	46.4	3.1	49.5	68.2	-18.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS0) – Channel 36 – 5180MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9381.0	47.8	-2.1	45.7	74.0	-28.3	Peak	Horizontal
*	10231.0	47.8	-1.2	46.6	68.2	-21.6	Peak	Horizontal
	11540.0	48.2	-1.2	47.0	74.0	-27.0	Peak	Horizontal
*	14166.5	47.2	2.8	50.0	68.2	-18.2	Peak	Horizontal
	8420.5	48.7	-3.2	45.5	74.0	-28.5	Peak	Vertical
*	9670.0	48.5	-1.9	46.6	68.2	-21.6	Peak	Vertical
	11684.5	49.1	-1.3	47.8	74.0	-26.2	Peak	Vertical
*	14090.0	47.7	2.4	50.1	68.2	-18.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS0) – Channel 100 – 5500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8310.0	47.8	-3.2	44.6	74.0	-29.4	Peak	Horizontal
*	10316.0	47.8	-0.9	46.9	68.2	-21.3	Peak	Horizontal
	11633.5	49.0	-1.3	47.7	74.0	-26.3	Peak	Horizontal
*	14166.5	46.4	2.8	49.2	68.2	-19.0	Peak	Horizontal
	9568.0	48.7	-1.9	46.8	68.2	-21.4	Peak	Vertical
*	11013.0	49.1	-1.1	48.0	74.0	-26.0	Peak	Vertical
	14141.0	47.4	2.3	49.7	68.2	-18.5	Peak	Vertical
*	15866.5	34.6	5.5	40.1	54.0	-13.9	Average	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS0) – Channel 149 – 5745MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8208.0	49.8	-3.1	46.7	74.0	-27.3	Peak	Horizontal
*	10239.5	49.4	-1.4	48.0	68.2	-20.2	Peak	Horizontal
	11642.0	50.5	-1.7	48.8	74.0	-25.2	Peak	Horizontal
*	14217.5	48.4	3.0	51.4	68.2	-16.8	Peak	Horizontal
	8352.5	50.1	-3.4	46.7	74.0	-27.3	Peak	Vertical
*	9593.5	50.2	-1.9	48.3	68.2	-19.9	Peak	Vertical
	11761.0	50.9	-1.8	49.1	74.0	-24.9	Peak	Vertical
*	14081.5	48.7	2.9	51.6	68.2	-16.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE40_NSS=1 (MCS0) – Channel 38 – 5190MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8165.5	51.5	-3.5	48.0	74.0	-26.0	Peak	Horizontal
*	10503.0	50.4	-1.3	49.1	68.2	-19.1	Peak	Horizontal
	11727.0	50.4	-1.7	48.7	74.0	-25.3	Peak	Horizontal
*	14064.5	48.9	2.9	51.8	68.2	-16.4	Peak	Horizontal
	7553.5	51.1	-4.6	46.5	74.0	-27.5	Peak	Vertical
*	10299.0	49.6	-1.3	48.3	68.2	-19.9	Peak	Vertical
	12398.5	50.7	-1.3	49.4	74.0	-24.6	Peak	Vertical
*	14149.5	49.0	3.0	52.0	68.2	-16.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE40_NSS=1 (MCS0) – Channel 102 – 5510MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8157.0	50.5	-3.4	47.1	74.0	-26.9	Peak	Horizontal
*	9755.0	50.8	-2.0	48.8	68.2	-19.4	Peak	Horizontal
	10945.0	49.7	-1.3	48.4	74.0	-25.6	Peak	Horizontal
*	13852.0	49.4	2.4	51.8	68.2	-16.4	Peak	Horizontal
	8395.0	51.2	-3.2	48.0	74.0	-26.0	Peak	Vertical
*	10273.5	50.0	-1.5	48.5	68.2	-19.7	Peak	Vertical
	11123.5	50.0	-1.4	48.6	74.0	-25.4	Peak	Vertical
*	14158.0	48.6	3.1	51.7	68.2	-16.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE40_NSS=1 (MCS0) – Channel 110 – 5550MHz
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9372.5	50.3	-2.0	48.3	74.0	-25.7	Peak	Horizontal
*	10324.5	48.8	-1.2	47.6	68.2	-20.6	Peak	Horizontal
	11727.0	50.3	-1.7	48.6	74.0	-25.4	Peak	Horizontal
*	14064.5	48.2	2.9	51.1	68.2	-17.1	Peak	Horizontal
	8344.0	50.5	-3.4	47.1	74.0	-26.9	Peak	Vertical
*	10052.5	49.7	-1.6	48.1	68.2	-20.1	Peak	Vertical
	11565.5	50.6	-1.9	48.7	74.0	-25.3	Peak	Vertical
*	14115.5	48.3	2.9	51.2	68.2	-17.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE40_NSS=1 (MCS0) – Channel 151 – 5755MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8446.0	51.2	-3.2	48.0	74.0	-26.0	Peak	Horizontal
*	9729.5	50.5	-2.2	48.3	68.2	-19.9	Peak	Horizontal
	11769.5	51.1	-1.9	49.2	74.0	-24.8	Peak	Horizontal
*	14260.0	50.1	3.1	53.2	68.2	-15.0	Peak	Horizontal
	8114.5	50.8	-3.7	47.1	74.0	-26.9	Peak	Vertical
*	9950.5	50.2	-1.6	48.6	68.2	-19.6	Peak	Vertical
	11820.5	50.4	-1.8	48.6	74.0	-25.4	Peak	Vertical
*	14081.5	48.6	2.9	51.5	68.2	-16.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 42 – 5210MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8344.0	50.3	-3.4	46.9	74.0	-27.1	Peak	Horizontal
*	9576.5	50.1	-1.9	48.2	68.2	-20.0	Peak	Horizontal
	12424.0	50.3	-0.9	49.4	74.0	-24.6	Peak	Horizontal
*	13767.0	49.3	2.1	51.4	68.2	-16.8	Peak	Horizontal
	8310.0	49.5	-3.1	46.4	74.0	-27.6	Peak	Vertical
*	10307.5	50.6	-1.2	49.4	68.2	-18.8	Peak	Vertical
	11625.0	50.7	-1.6	49.1	74.0	-24.9	Peak	Vertical
*	14073.0	48.9	2.9	51.8	68.2	-16.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 151 – 5530MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8242.0	50.1	-3.2	46.9	74.0	-27.1	Peak	Horizontal
*	10248.0	49.5	-1.5	48.0	68.2	-20.2	Peak	Horizontal
	12220.0	50.6	-1.7	48.9	74.0	-25.1	Peak	Horizontal
*	14064.5	49.0	2.9	51.9	68.2	-16.3	Peak	Horizontal
	8182.5	50.2	-3.5	46.7	74.0	-27.3	Peak	Vertical
*	10129.0	49.1	-1.4	47.7	68.2	-20.5	Peak	Vertical
	11429.5	50.5	-1.5	49.0	74.0	-25.0	Peak	Vertical
*	14124.0	48.9	2.9	51.8	68.2	-16.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE80_NSS=1 (MCS0) – Channel 155 – 5775MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8310.0	50.7	-3.1	47.6	74.0	-26.4	Peak	Horizontal
*	10214.0	50.1	-1.6	48.5	68.2	-19.7	Peak	Horizontal
	11506.0	51.2	-1.7	49.5	74.0	-24.5	Peak	Horizontal
*	14149.5	49.1	3.0	52.1	68.2	-16.1	Peak	Horizontal
	8157.0	50.6	-3.4	47.2	74.0	-26.8	Peak	Vertical
*	9738.0	50.9	-2.1	48.8	68.2	-19.4	Peak	Vertical
	11633.5	51.1	-1.7	49.4	74.0	-24.6	Peak	Vertical
*	14175.0	47.8	3.7	51.5	68.2	-16.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE160_NSS=1 (MCS0) – Channel 50 – 5250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8199.5	48.9	-3.3	45.6	74.0	-28.4	Peak	Horizontal
*	10222.5	49.6	-1.5	48.1	68.2	-20.1	Peak	Horizontal
	11438.0	49.9	-1.4	48.5	74.0	-25.5	Peak	Horizontal
*	13843.5	49.7	2.4	52.1	68.2	-16.1	Peak	Horizontal
	8310.0	50.6	-3.1	47.5	74.0	-26.5	Peak	Vertical
*	9602.0	50.7	-2.0	48.7	68.2	-19.5	Peak	Vertical
	11446.5	49.9	-1.5	48.4	74.0	-25.6	Peak	Vertical
*	14226.0	48.7	3.0	51.7	68.2	-16.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-10-20 ~ 2023-10-24	Test Mode	Transmit by 802.11ax-HE160_NSS=1 (MCS0) – Channel 114 – 5570MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		
Remark	Spot Check - Full Path Akoustic Filter		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8412.0	49.9	-3.2	46.7	74.0	-27.3	Peak	Horizontal
*	10239.5	49.7	-1.4	48.3	68.2	-19.9	Peak	Horizontal
	11429.5	50.2	-1.5	48.7	74.0	-25.3	Peak	Horizontal
*	14166.5	48.8	3.4	52.2	68.2	-16.0	Peak	Horizontal
	8165.5	50.2	-3.5	46.7	74.0	-27.3	Peak	Vertical
*	10324.5	50.0	-1.2	48.8	68.2	-19.4	Peak	Vertical
	11735.5	50.4	-1.8	48.6	74.0	-25.4	Peak	Vertical
*	13962.5	49.1	2.4	51.5	68.2	-16.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

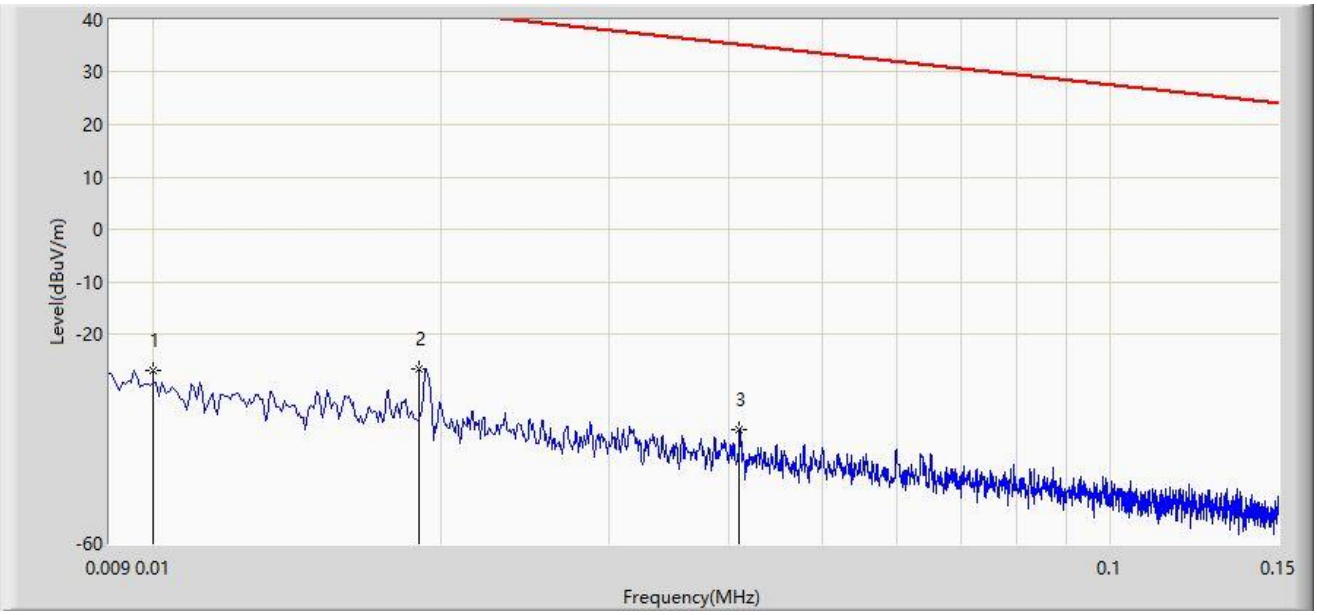
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Result of Radiated Emission for below 30MHz:

Partial Path Akoustic Filter:

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coaxial
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.010	-27.000	33.073	-74.585	47.585	-60.073	PK
2	*	0.019	-26.693	33.740	-68.706	42.013	-60.433	PK
3		0.041	-38.240	23.001	-73.576	35.336	-61.240	PK

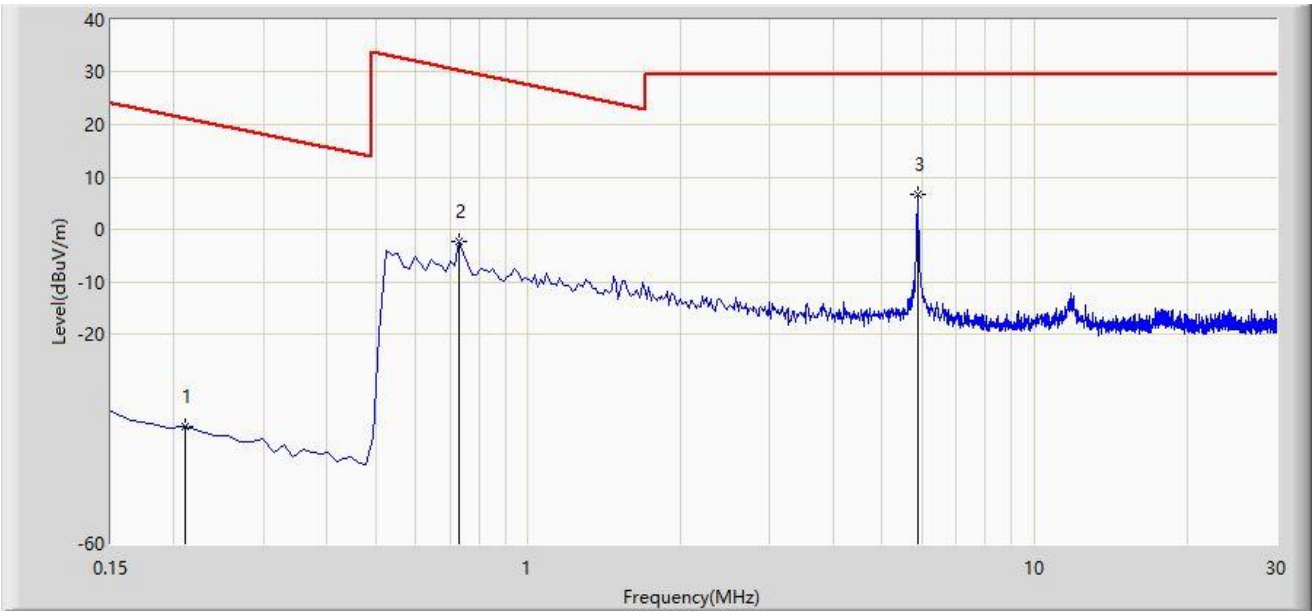
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coaxial
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.210	-37.603	23.859	-58.758	21.155	-61.462	PK
2		0.732	-2.229	18.845	-32.553	30.324	-21.075	PK
3	*	5.881	6.790	28.024	-22.710	29.500	-21.234	PK

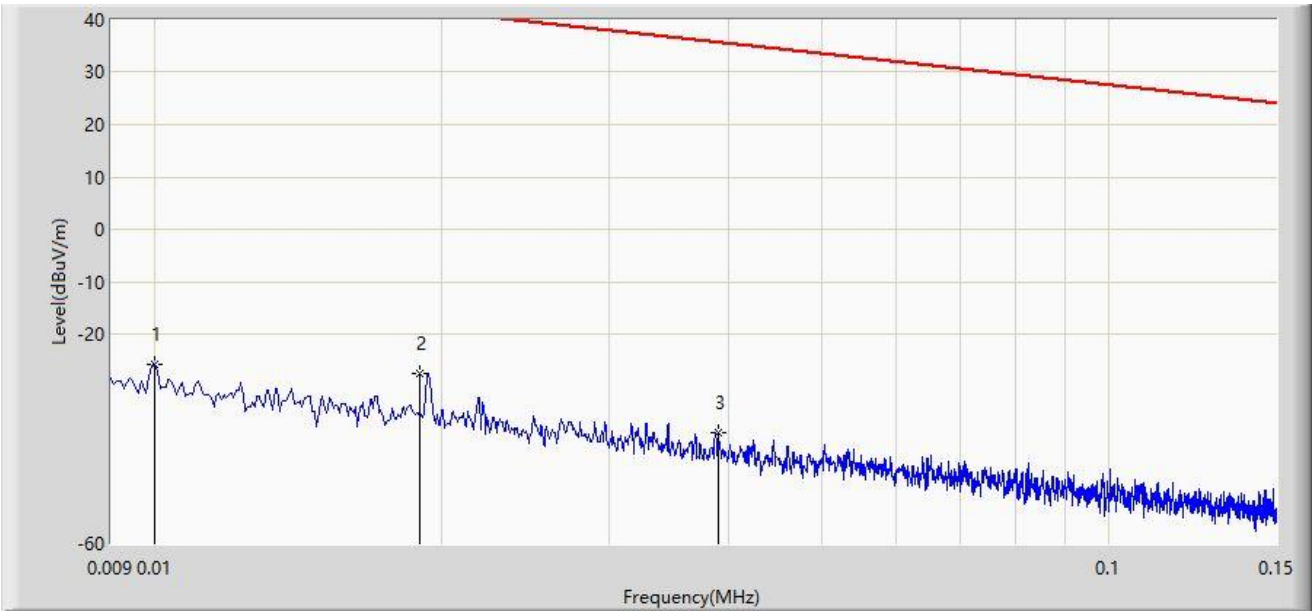
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coplanar
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.010	-25.741	34.332	-73.326	47.585	-60.073	PK
2	*	0.019	-27.492	32.941	-69.505	42.013	-60.433	PK
3		0.039	-38.974	22.259	-74.745	35.771	-61.233	PK

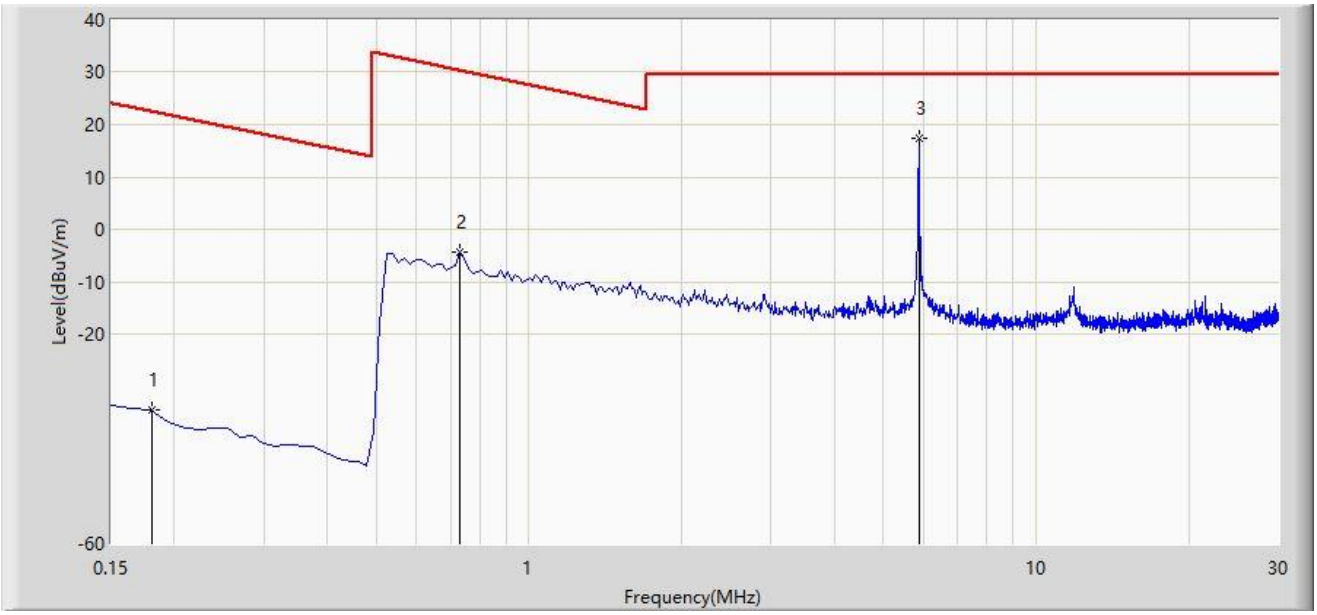
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coplanar
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.180	-34.483	26.914	-56.977	22.494	-61.397	PK
2		0.732	-4.439	16.635	-34.763	30.324	-21.075	PK
3	*	5.866	17.352	38.554	-12.148	29.500	-21.203	PK

Note 1: " * ", means this data is the worst emission level.

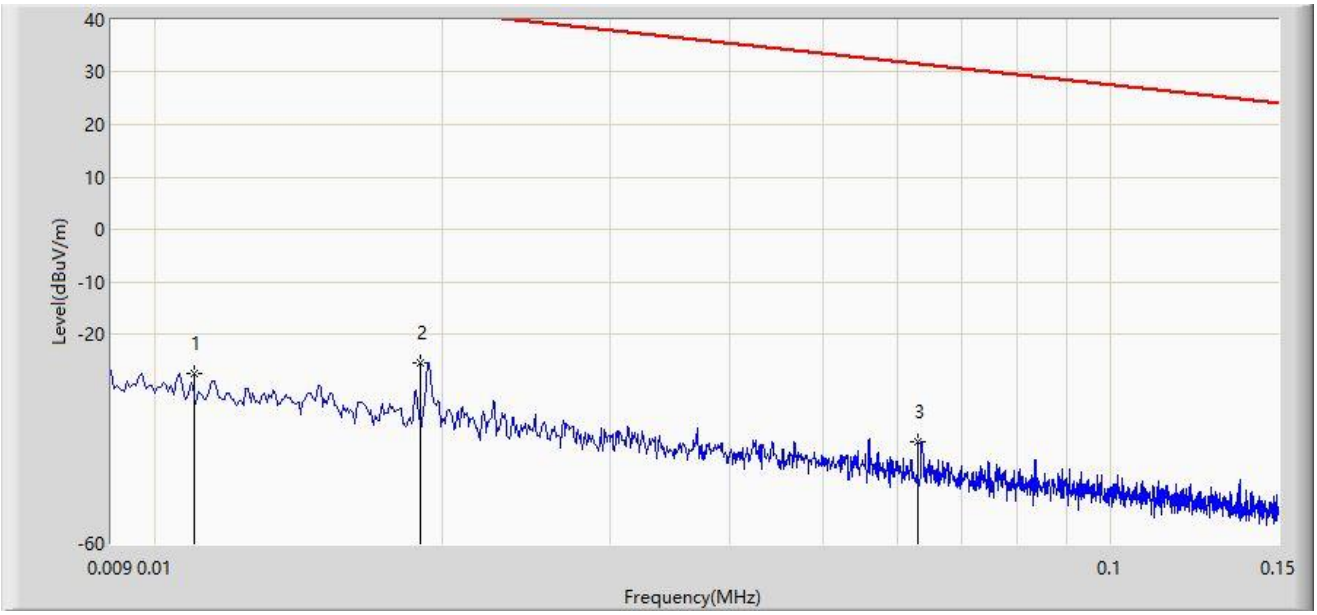
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Full Path Akoustic Filter:

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coaxial
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.011	-27.666	32.447	-74.424	46.758	-60.113	PK
2	*	0.019	-25.536	34.897	-67.549	42.013	-60.433	PK
3		0.063	-40.553	20.770	-72.160	31.607	-61.323	PK

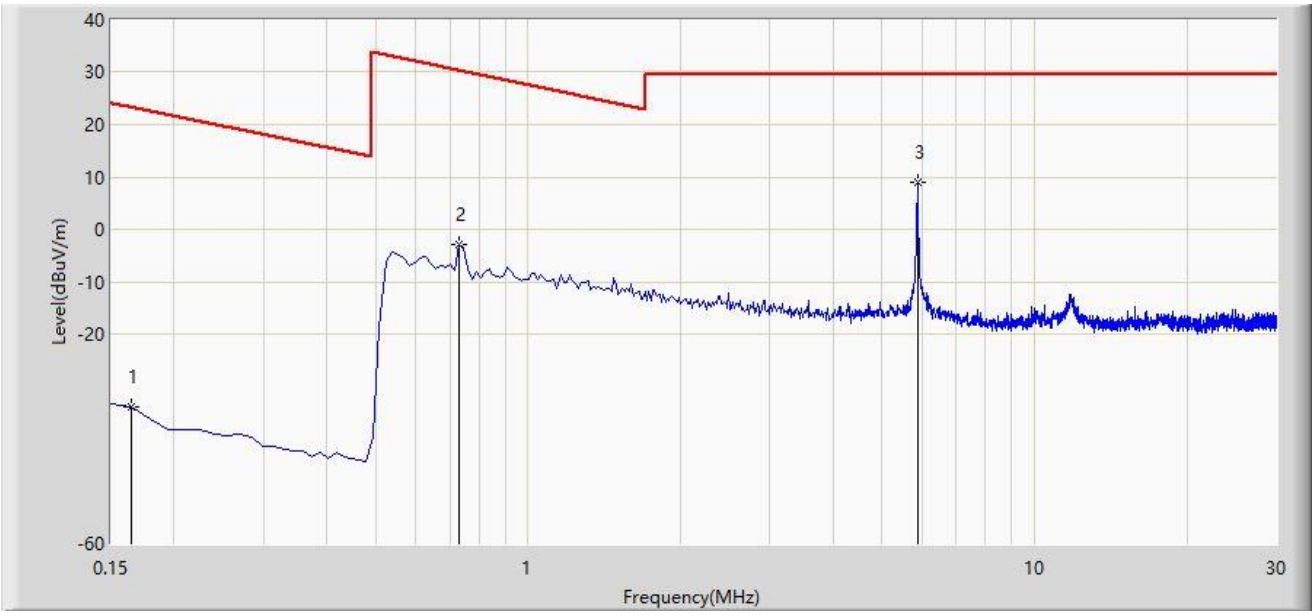
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coaxial
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.165	-33.893	27.456	-57.142	23.249	-61.349	PK
2		0.732	-2.983	18.091	-33.307	30.324	-21.075	PK
3	*	5.866	8.983	30.185	-20.517	29.500	-21.203	PK

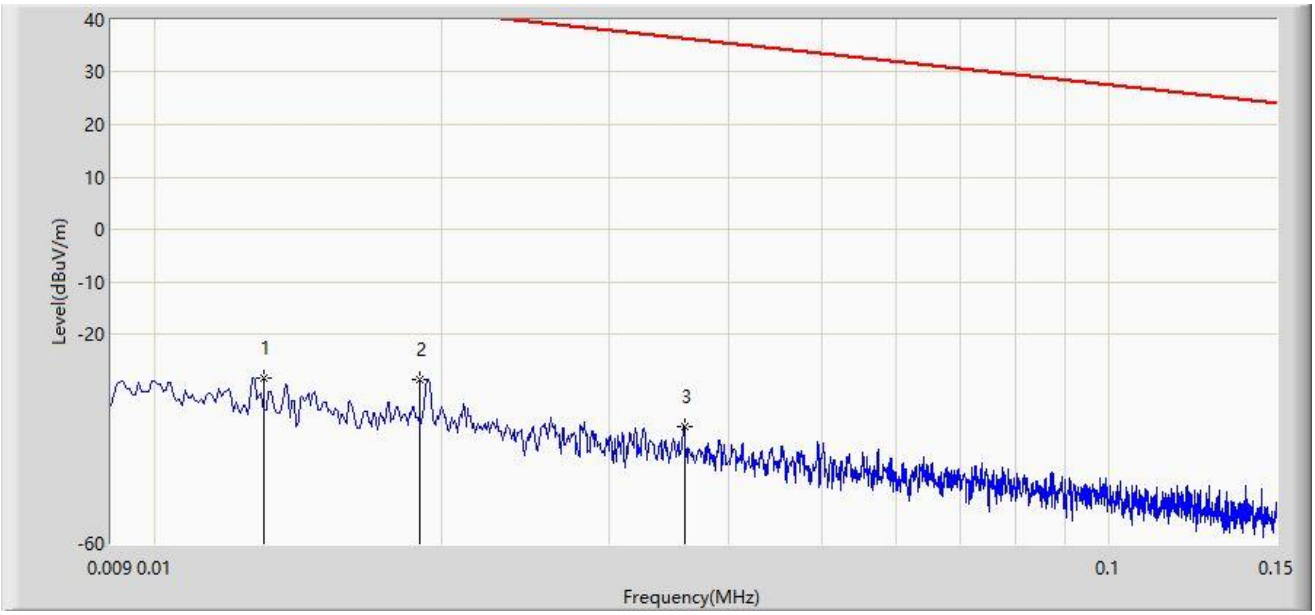
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coplanar
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.013	-28.361	31.832	-73.669	45.308	-60.193	PK
2	*	0.019	-28.825	31.608	-70.838	42.013	-60.433	PK
3		0.036	-37.590	23.523	-74.056	36.465	-61.113	PK

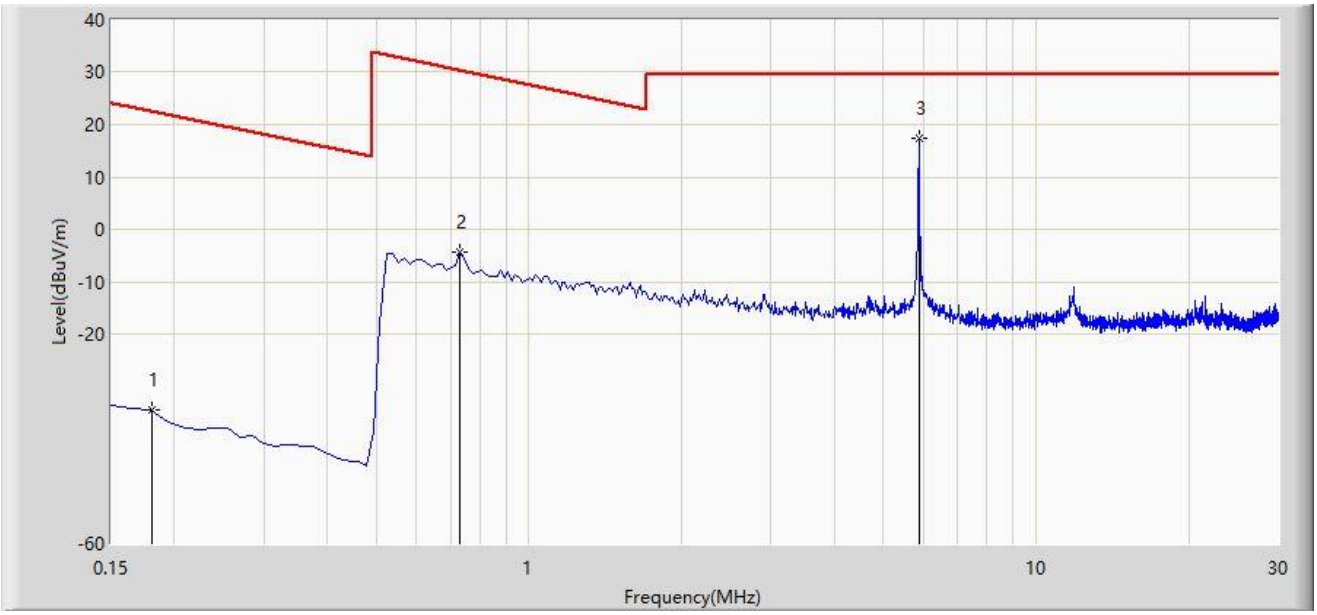
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC2	Test Date: 2023/10/26
Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M)	Engineer: Fusco Pan
Probe: FMZB1519B_9kHz-30MHz	Polarity: Coplanar
EUT: EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.180	-34.483	26.914	-56.977	22.494	-61.397	PK
2		0.732	-4.439	16.635	-34.763	30.324	-21.075	PK
3	*	5.866	17.352	38.554	-12.148	29.500	-21.203	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

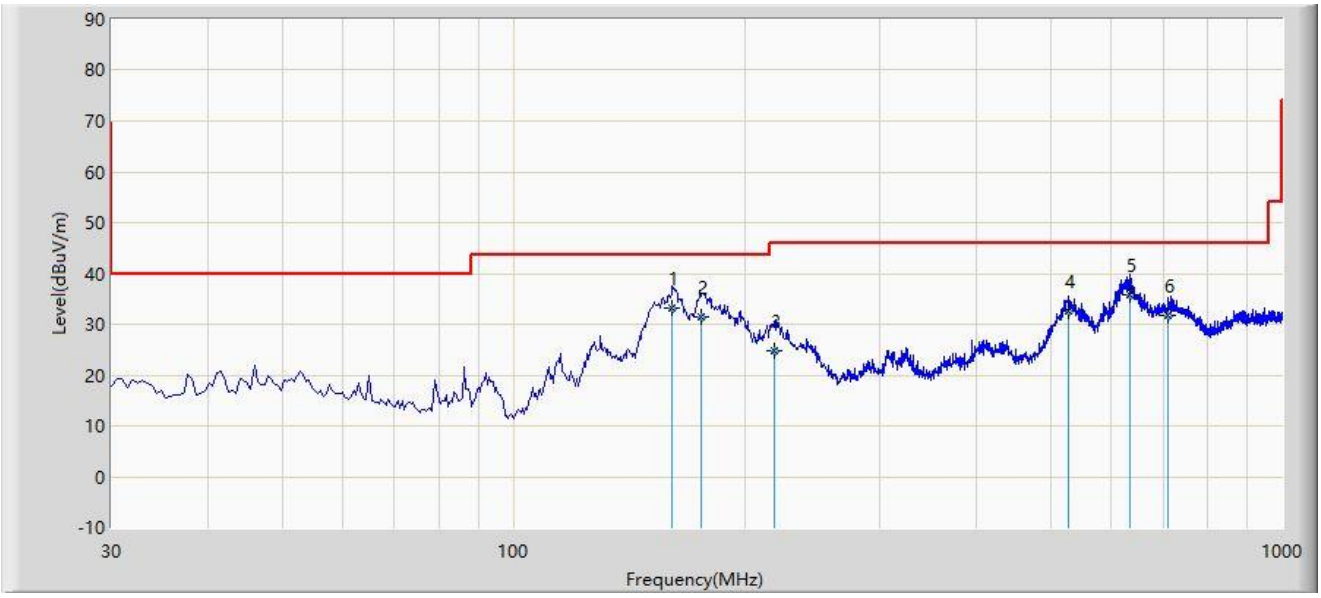
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Worst Result of Radiated Emission for 30MHz ~ 1GHz:

Partial Path Akoustic Filter:

Site: SIP-AC2	Test Date:2023-10-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



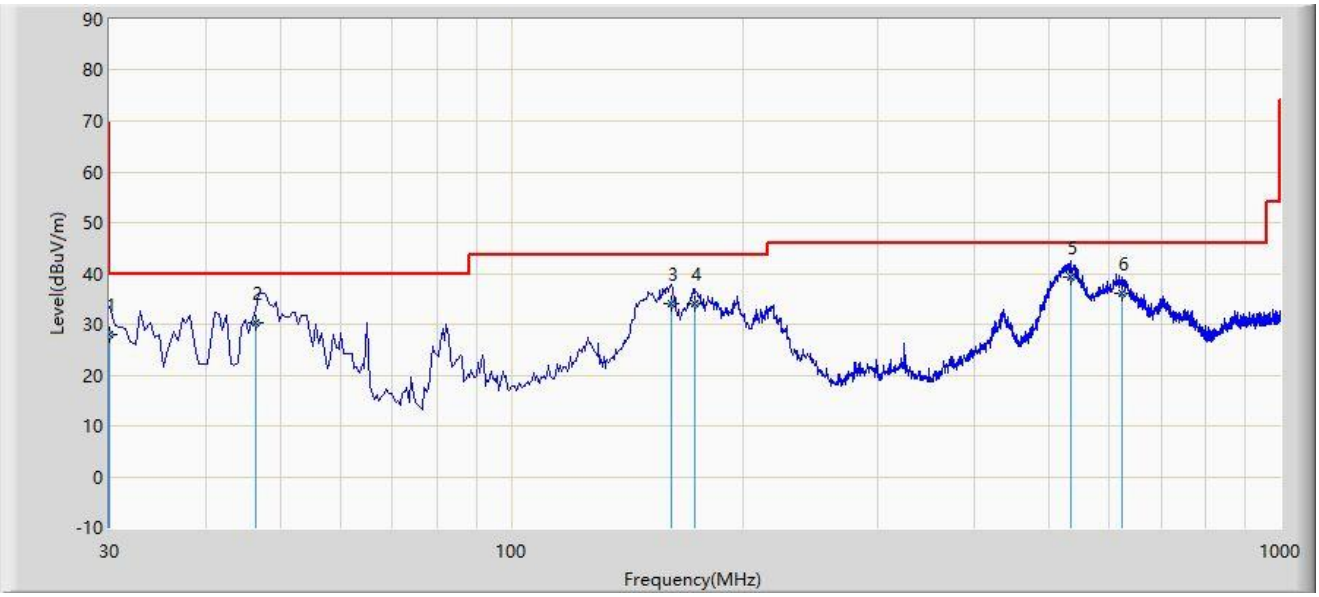
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	160.630	33.205	15.000	-10.295	43.500	18.204	QP
2		175.610	31.317	14.000	-12.183	43.500	17.317	QP
3		218.620	24.821	10.000	-21.179	46.000	14.821	QP
4		527.150	32.623	8.600	-13.377	46.000	24.023	QP
5		633.450	35.675	9.100	-10.325	46.000	26.575	QP
6		711.000	31.863	4.100	-14.137	46.000	27.763	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC2	Test Date:2023-10-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.000	28.022	11.000	-11.978	40.000	17.021	QP
2		46.556	30.417	12.000	-9.583	40.000	18.417	QP
3		161.330	34.189	16.000	-9.311	43.500	18.189	QP
4		173.330	34.090	16.500	-9.410	43.500	17.589	QP
5	*	534.122	39.350	15.000	-6.650	46.000	24.351	QP
6		624.000	36.146	9.300	-9.854	46.000	26.846	QP

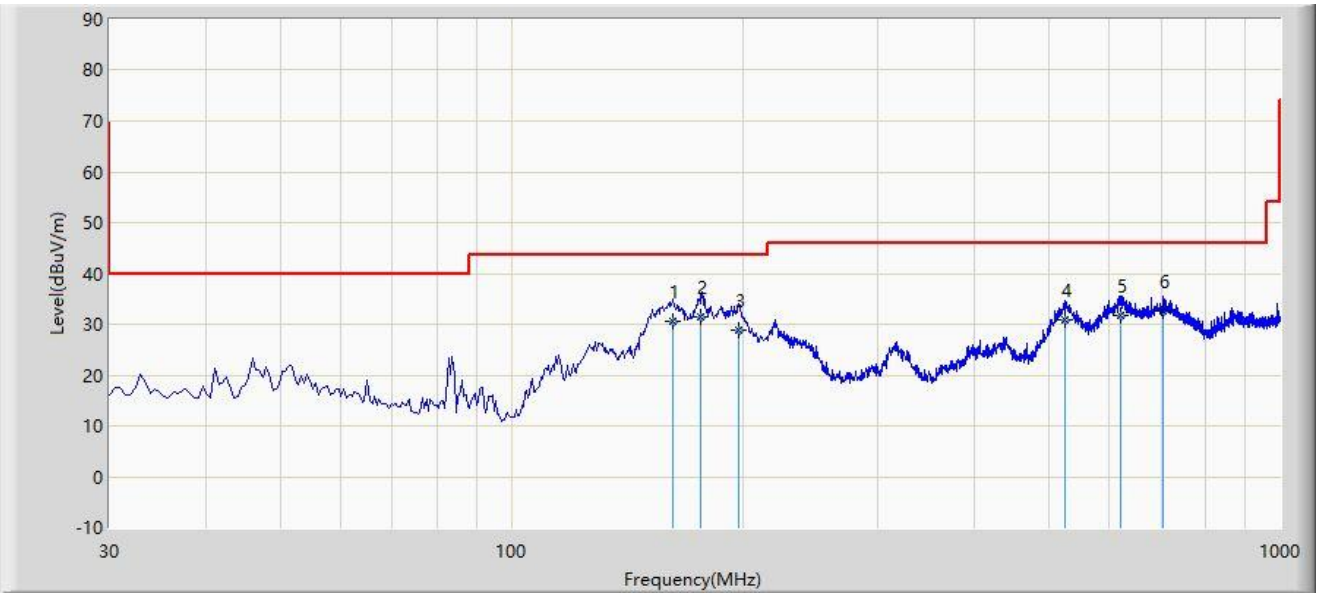
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Full Path Akoustic Filter:

Site: SIP-AC2	Test Date:2023-10-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



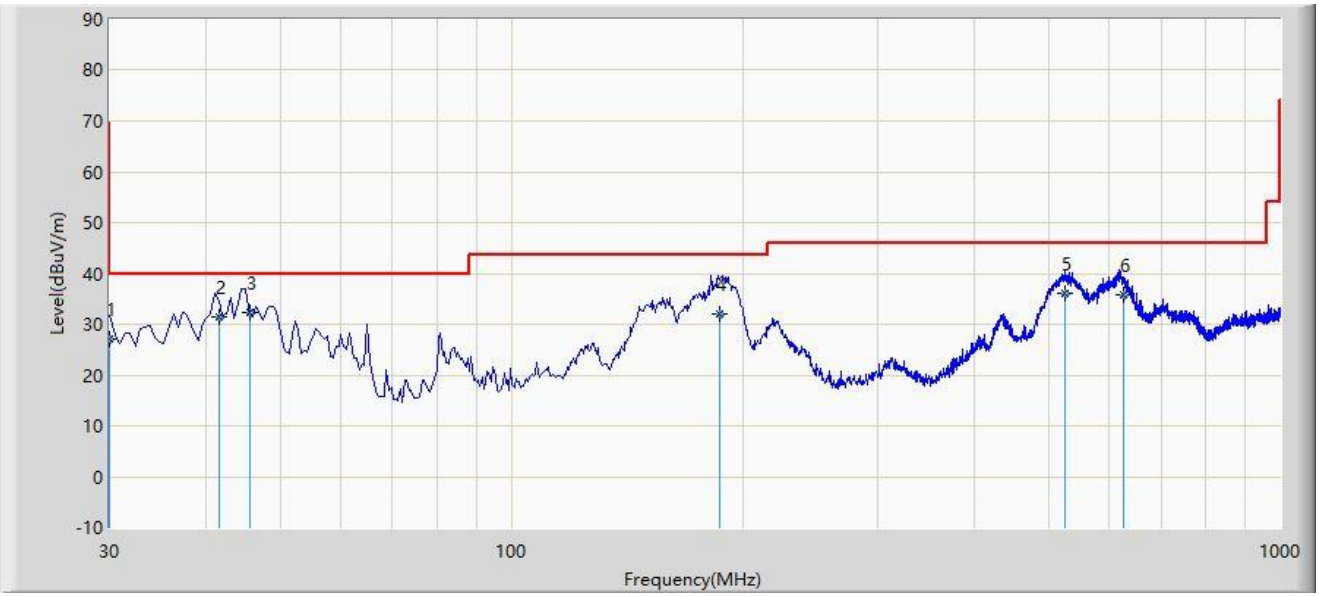
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		162.360	30.504	12.330	-12.996	43.500	18.175	QP
2	*	176.310	31.363	14.120	-12.137	43.500	17.243	QP
3		197.652	28.803	13.600	-14.697	43.500	15.203	QP
4		524.150	31.006	7.120	-14.994	46.000	23.886	QP
5		620.130	31.669	4.690	-14.331	46.000	26.978	QP
6		704.120	32.712	5.300	-13.288	46.000	27.412	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC2	Test Date:2023-10-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.000	27.142	10.120	-12.858	40.000	17.021	QP
2		41.650	31.323	13.300	-8.677	40.000	18.023	QP
3	*	45.650	32.374	14.000	-7.626	40.000	18.374	QP
4		186.360	31.952	16.000	-11.548	43.500	15.952	QP
5		524.360	36.205	12.312	-9.795	46.000	23.893	QP
6		624.320	35.798	8.963	-10.202	46.000	26.835	QP

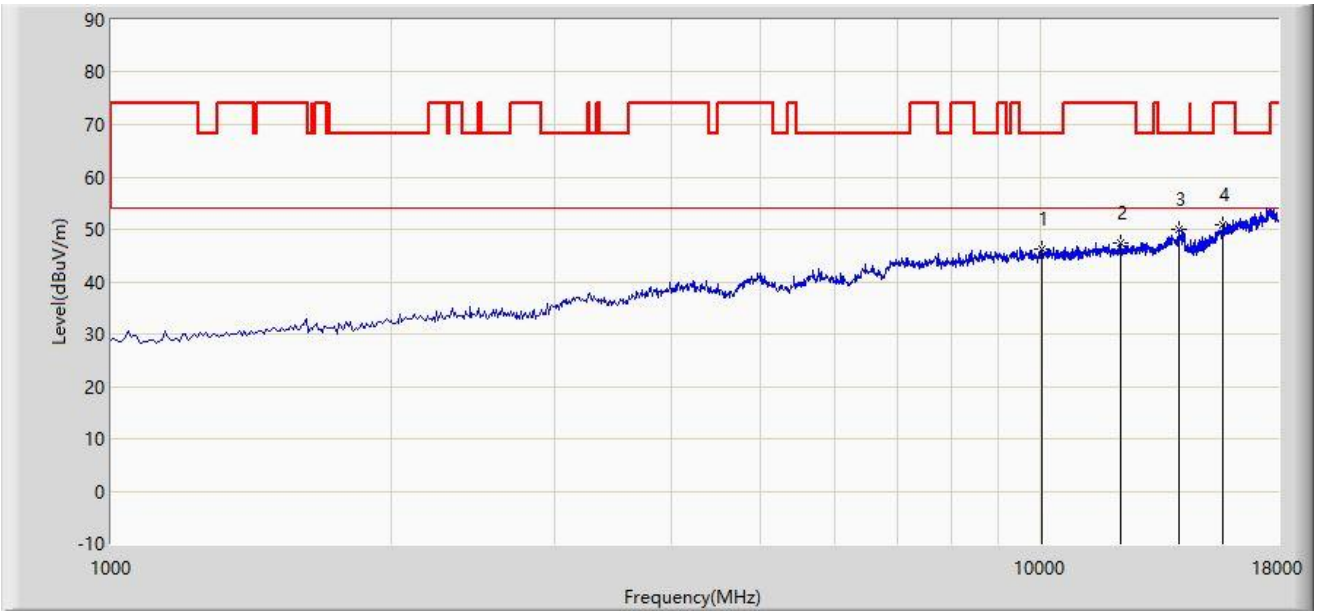
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

The Worst Result of Radiated Emission for 1GHz ~ 18GHz:

Site: SIP-AC3	Test Date: 2023/10/21 - 00:02
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: HF907_102862_1-18GHz-AC1	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT20 at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		10010.000	46.246	47.964	-21.954	68.200	-1.718	PK
2		12177.500	47.394	48.628	-26.606	74.000	-1.234	PK
3	*	14081.500	50.087	47.746	-18.113	68.200	2.341	PK
4		15696.500	50.766	45.457	-23.234	74.000	5.308	PK

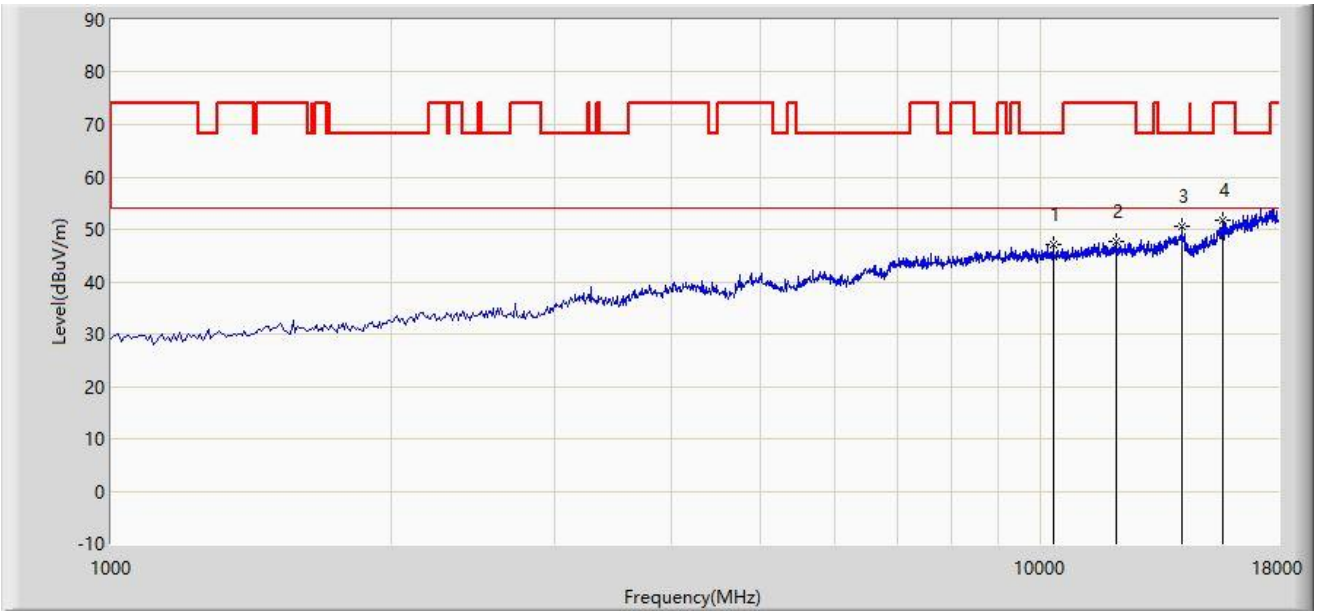
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/10/21
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: HF907_102862_1-18GHz-AC1	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT20 at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		10324.500	47.076	48.037	-21.124	68.200	-0.962	PK
2		12041.500	47.785	49.150	-26.215	74.000	-1.365	PK
3	*	14183.500	50.704	48.125	-17.496	68.200	2.578	PK
4		15696.500	51.651	46.343	-22.349	74.000	5.308	PK

Note 1: " * ", means this data is the worst emission level.

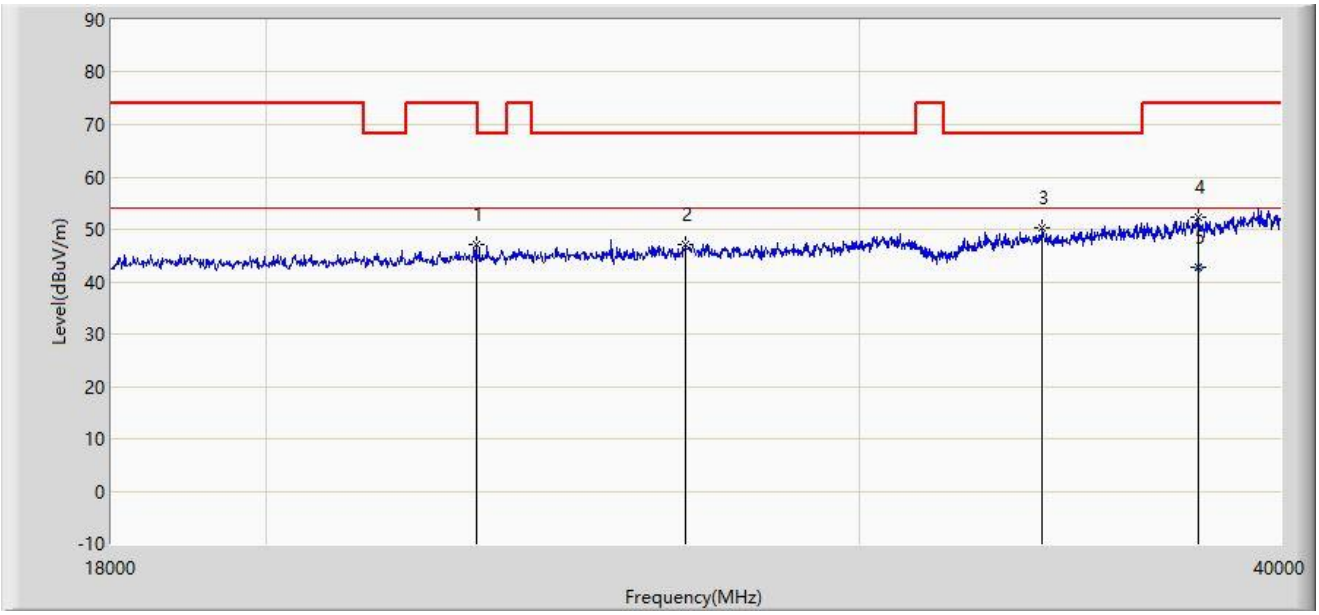
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

The Worst Result of Radiated Emission for 18Hz ~ 40GHz:

Site: SIP-AC2	Test Date: 2023/10/25
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: BBHA 9170_00934_18-40GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		23093.000	47.043	56.374	-26.957	74.000	-9.330	PK
2		26646.000	47.143	55.262	-21.057	68.200	-8.119	PK
3		34005.000	50.215	58.666	-17.985	68.200	-8.452	PK
4		37844.000	52.240	55.589	-21.760	74.000	-3.349	PK
5	*	37844.000	42.617	45.966	-11.383	54.000	-3.349	AV

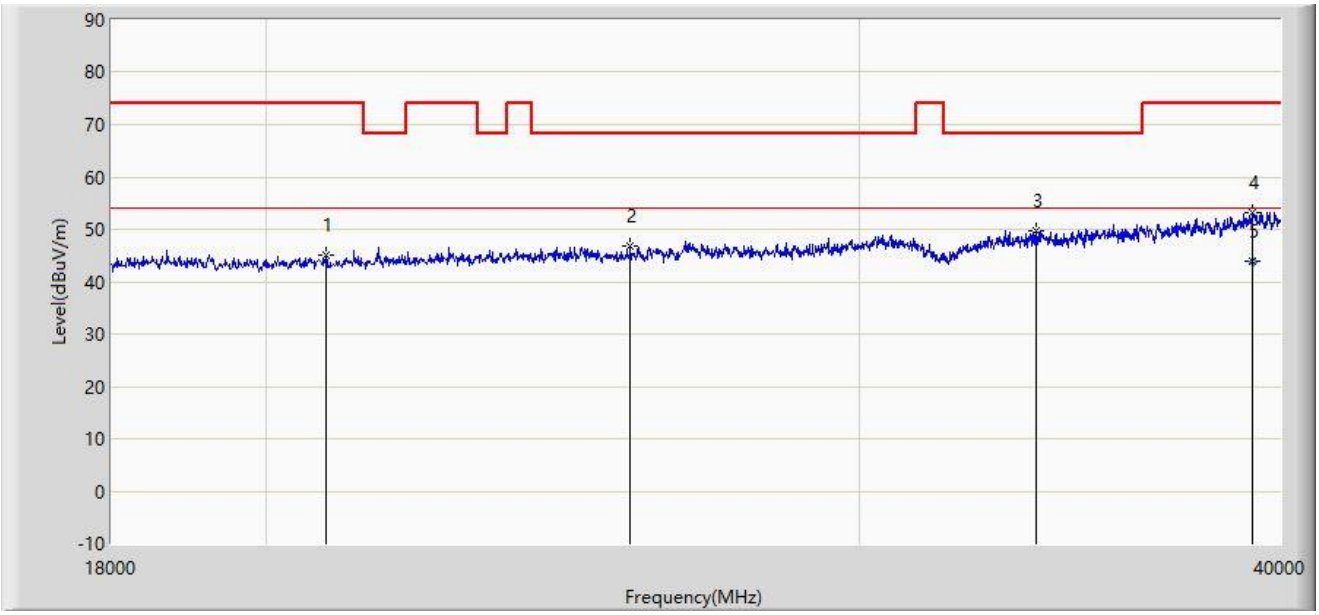
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC2	Test Date: 2023/10/25
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: BBHA 9170_00934_18-40GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		20849.000	45.175	56.366	-28.825	74.000	-11.191	PK
2		25667.000	46.714	55.782	-21.486	68.200	-9.068	PK
3		33873.000	49.615	58.616	-18.585	68.200	-9.000	PK
4		39252.000	53.233	52.551	-20.767	74.000	0.682	PK
5	*	39252.000	43.832	43.150	-10.168	54.000	0.682	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

A.8 Radiated Restricted Band Edge Test Result

Spot Check:

Partial Path Akoustic Filter:

Site: SIP-AC1	Test Date: 2023/11/18 - 11:44
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	

No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5140.825	69.102	61.645	-4.898	74.000	7.457	PK
2		5150.000	67.752	58.607	-6.248	74.000	9.144	PK
3		5186.680	112.487	66.635	N/A	N/A	45.852	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 11:38
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	

No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5150.000	53.005	43.860	-0.995	54.000	9.144	AV
2		5186.680	105.319	59.467	N/A	N/A	45.852	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 11:45
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	

No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5150.000	60.397	51.252	-13.603	74.000	9.144	PK
2		5183.935	103.536	55.227	N/A	N/A	48.309	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 11:48
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5180MHz	

No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5149.285	44.706	35.747	-9.294	54.000	8.960	AV
2		5150.000	44.385	35.240	-9.615	54.000	9.144	AV
3		5184.115	95.259	47.245	N/A	N/A	48.014	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:02
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5500MHz	

No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5456.775	59.541	50.245	-14.459	74.000	9.297	PK
2		5460.000	57.036	47.521	-11.164	68.200	9.515	PK
3	*	5466.090	67.224	57.005	-0.976	68.200	10.219	PK
4		5470.000	64.844	53.606	-3.356	68.200	11.238	PK
5		5500.695	111.244	60.010	N/A	N/A	51.234	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:03
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5500MHz	

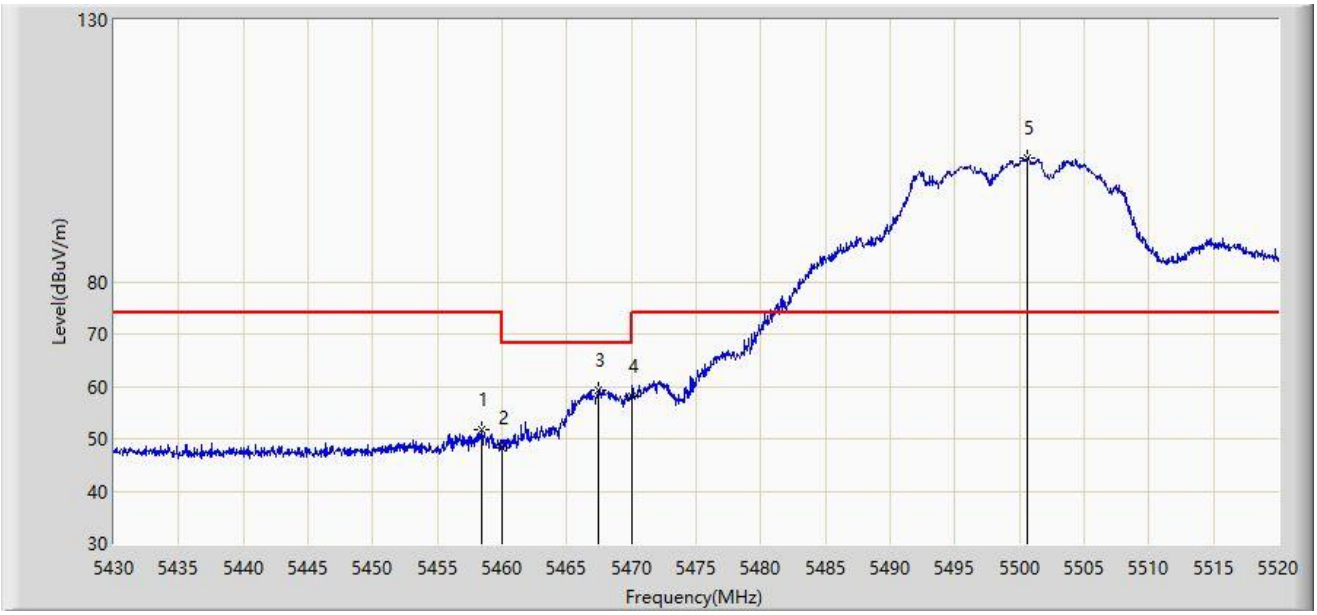
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5457.810	45.102	35.647	-8.898	54.000	9.455	AV
2		5460.000	44.287	34.772	-9.713	54.000	9.515	AV
3		5501.055	103.412	51.828	N/A	N/A	51.584	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:04
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5500MHz	



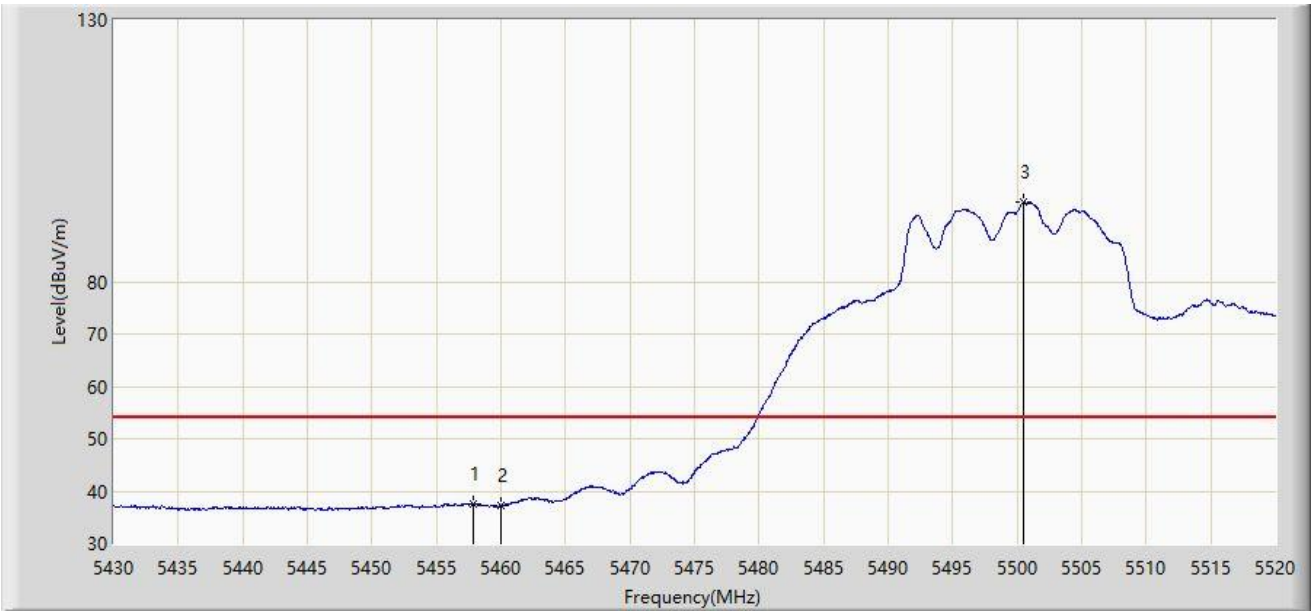
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5458.395	51.635	42.167	-22.365	74.000	9.467	PK
2		5460.000	48.258	38.743	-19.942	68.200	9.515	PK
3	*	5467.485	59.401	48.898	-8.799	68.200	10.502	PK
4		5470.000	57.999	46.761	-10.201	68.200	11.238	PK
5		5500.650	103.503	52.201	N/A	N/A	51.303	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:07
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5500MHz	



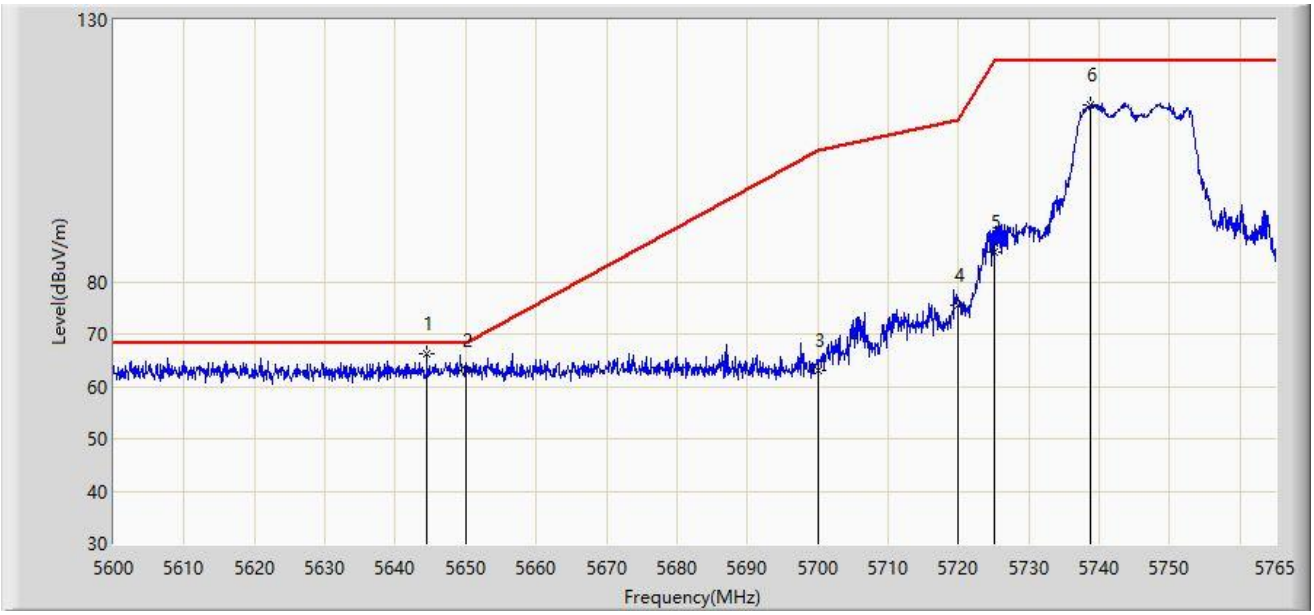
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5457.855	37.539	28.081	-16.461	54.000	9.459	AV
2		5460.000	37.337	27.822	-16.663	54.000	9.515	AV
3		5500.515	95.126	43.619	N/A	N/A	51.507	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:48
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5745MHz	



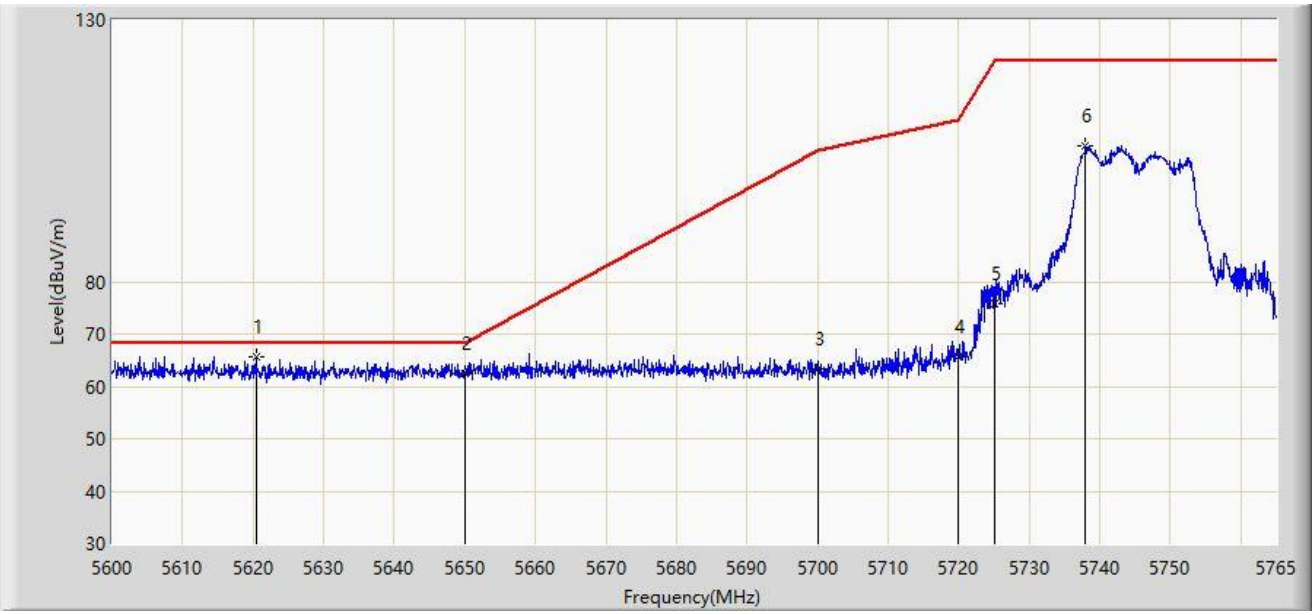
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5644.467	66.209	60.066	-1.991	68.200	6.144	PK
2		5650.000	62.926	56.649	-5.274	68.200	6.277	PK
3		5700.000	63.120	56.729	-42.080	105.200	6.391	PK
4		5720.000	75.610	69.325	-35.190	110.800	6.285	PK
5		5725.000	85.751	79.496	-36.449	122.200	6.254	PK
6		5738.765	113.720	107.340	N/A	N/A	6.381	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:51
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11a at 5745MHz	



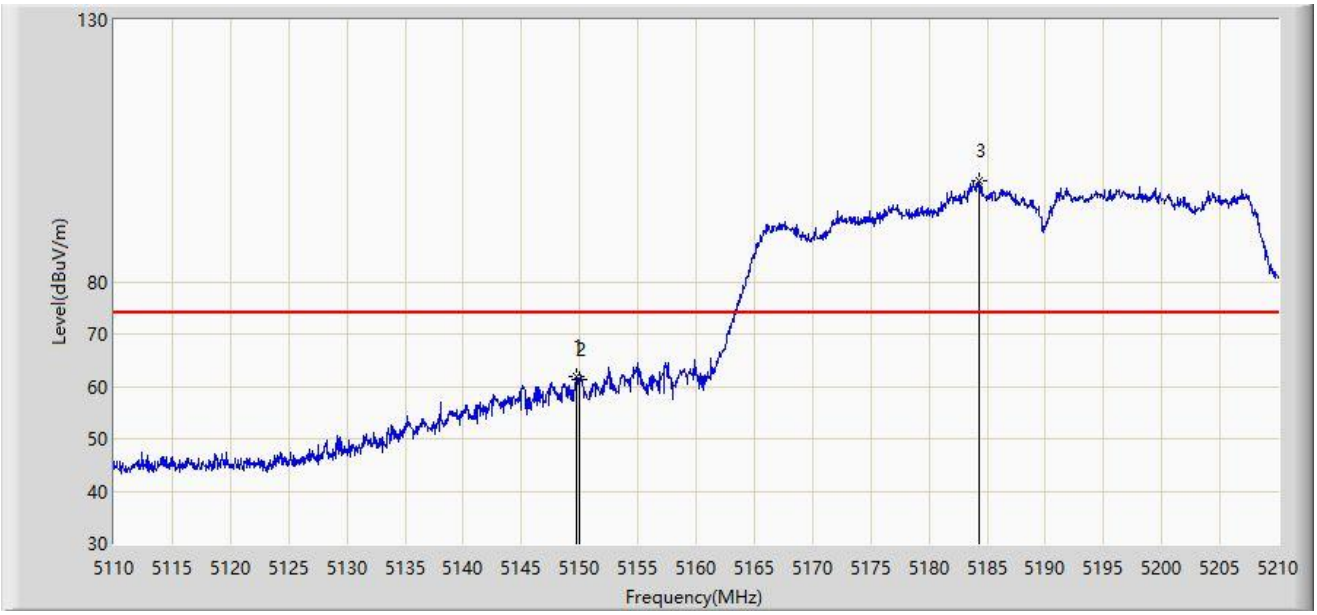
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5620.377	65.762	59.505	-2.438	68.200	6.257	PK
2		5650.000	62.394	56.117	-5.806	68.200	6.277	PK
3		5700.000	63.195	56.804	-42.005	105.200	6.391	PK
4		5720.000	65.619	59.334	-45.181	110.800	6.285	PK
5		5725.000	75.753	69.498	-46.447	122.200	6.254	PK
6		5737.940	105.898	99.526	N/A	N/A	6.372	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 12:52
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5190MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5149.700	61.840	52.738	-12.160	74.000	9.102	PK
2		5150.000	61.319	52.174	-12.681	74.000	9.144	PK
3		5184.250	99.188	51.444	N/A	N/A	47.745	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 12:51
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5190MHz	

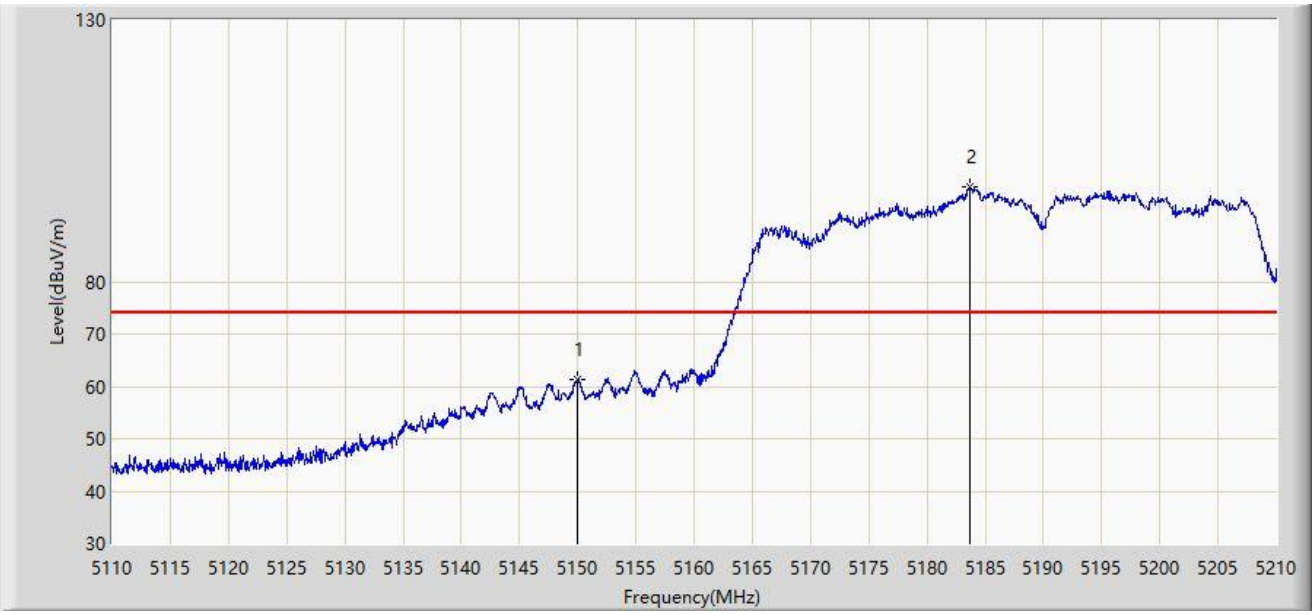
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5148.750	70.717	61.931	-3.283	74.000	8.785	PK
2		5150.000	67.818	58.673	-6.182	74.000	9.144	PK
3		5186.300	106.258	60.604	N/A	N/A	45.654	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:01
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5190MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5150.000	61.196	52.051	-12.804	74.000	9.144	PK
2		5183.700	98.219	49.677	N/A	N/A	48.541	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 12:55
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5190MHz	

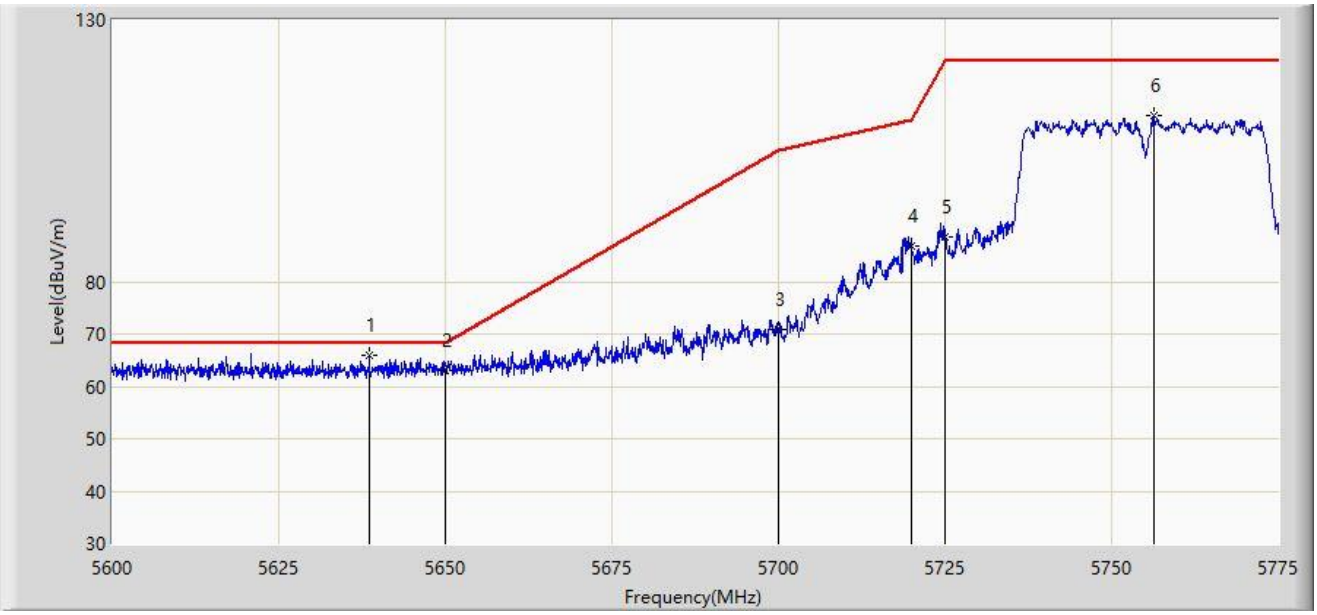
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5149.800	42.912	33.776	-11.088	54.000	9.137	AV
2		5150.000	42.604	33.459	-11.396	54.000	9.144	AV
3		5195.100	88.236	40.546	N/A	N/A	47.690	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:53
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5755MHz	



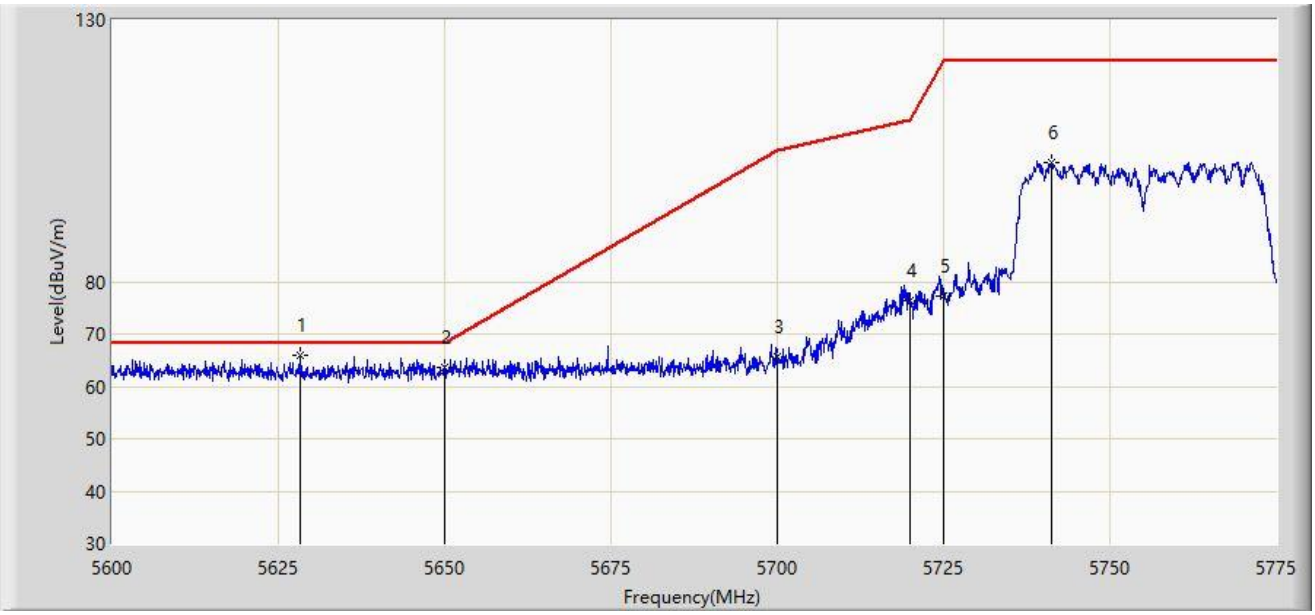
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5638.587	65.878	59.792	-2.322	68.200	6.086	PK
2		5650.000	63.121	56.844	-5.079	68.200	6.277	PK
3		5700.000	70.931	64.540	-34.269	105.200	6.391	PK
4		5720.000	86.684	80.399	-24.116	110.800	6.285	PK
5		5725.000	88.461	82.206	-33.739	122.200	6.254	PK
6		5756.275	111.850	105.363	N/A	N/A	6.487	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 15:00
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT40 at 5755MHz	



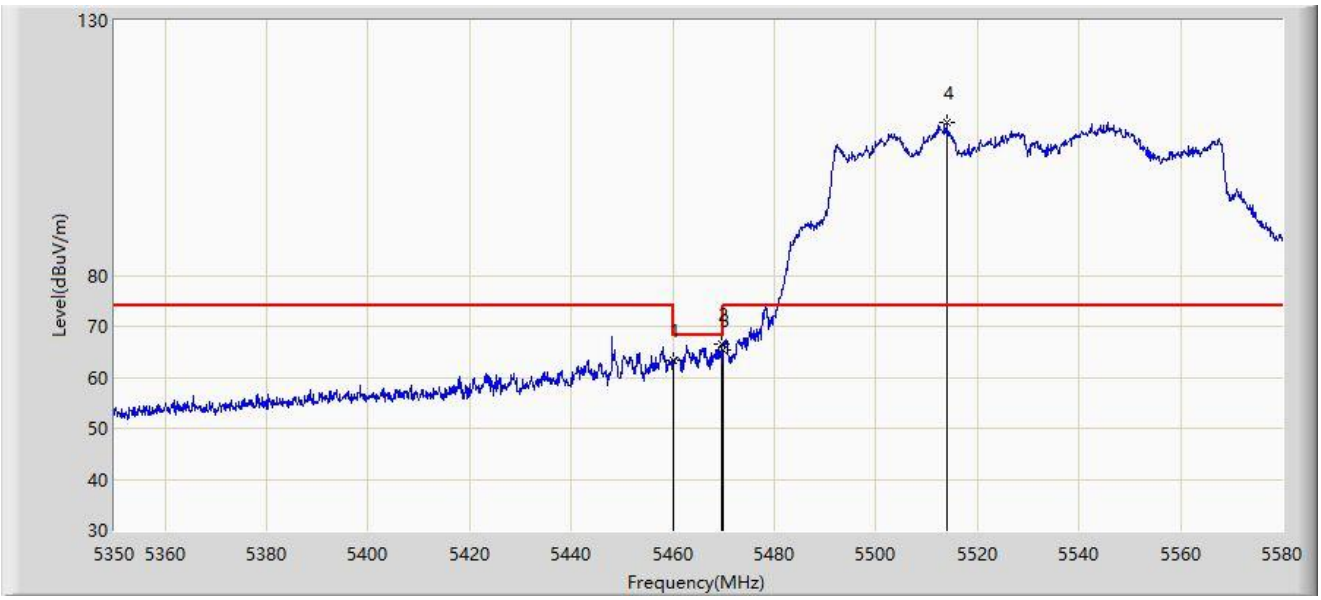
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5628.350	65.915	59.715	-2.285	68.200	6.200	PK
2		5650.000	63.573	57.296	-4.627	68.200	6.277	PK
3		5700.000	65.721	59.330	-39.479	105.200	6.391	PK
4		5720.000	76.271	69.986	-34.529	110.800	6.285	PK
5		5725.000	77.320	71.065	-44.880	122.200	6.254	PK
6		5741.225	102.851	96.445	N/A	N/A	6.406	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT80 at 5530MHz	



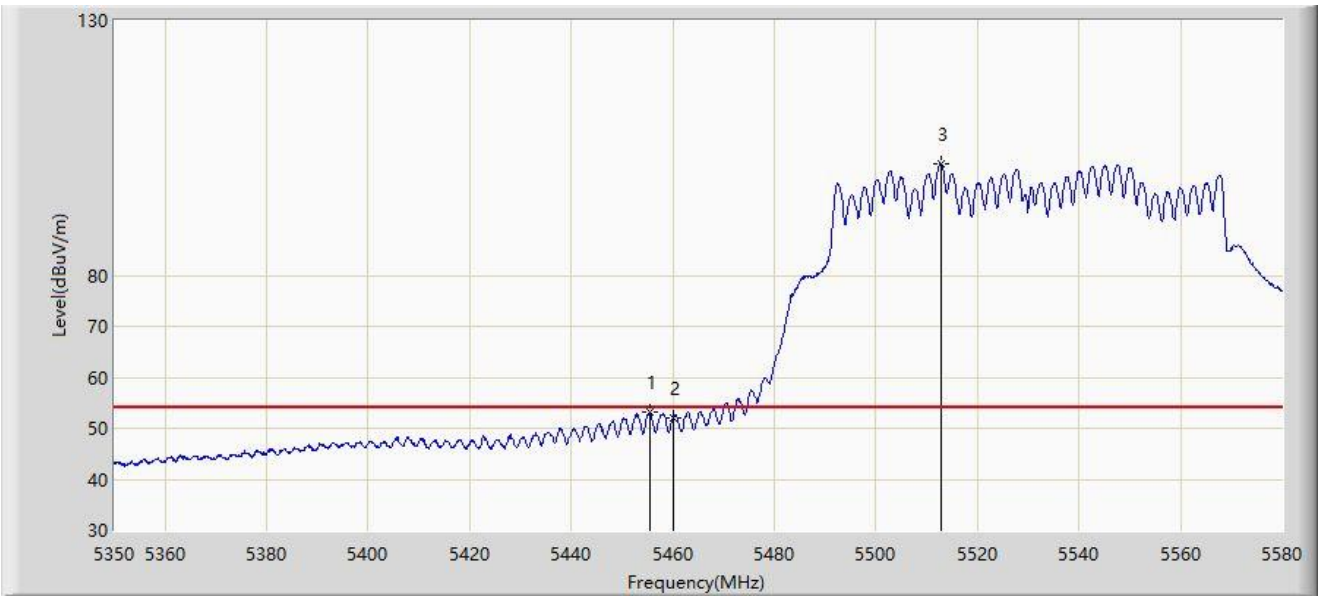
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5460.000	63.276	66.619	-4.924	68.200	-3.343	PK
2	*	5469.600	66.517	68.265	-1.683	68.200	-1.747	PK
3		5470.000	65.240	66.850	-2.960	68.200	-1.610	PK
4		5513.875	110.021	67.718	N/A	N/A	42.303	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT80 at 5530MHz	



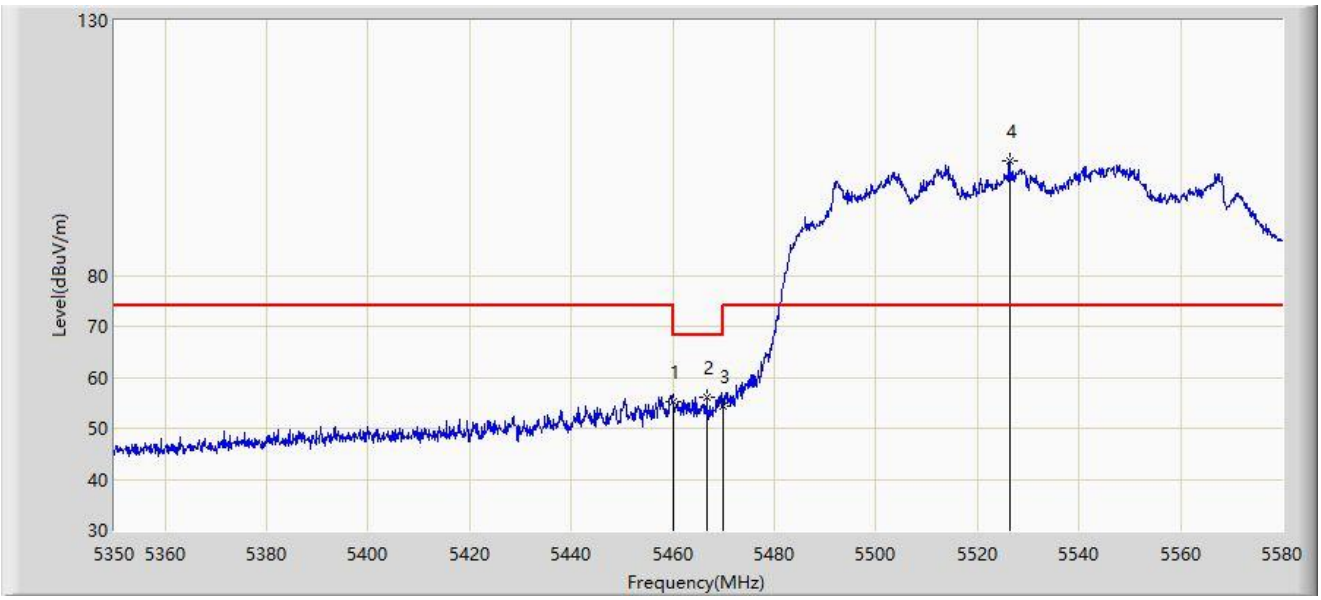
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5455.570	53.065	56.735	-0.935	54.000	-3.670	AV
2		5460.000	51.928	55.271	-2.072	54.000	-3.343	AV
3		5512.725	101.961	60.824	N/A	N/A	41.138	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT80 at 5530MHz	



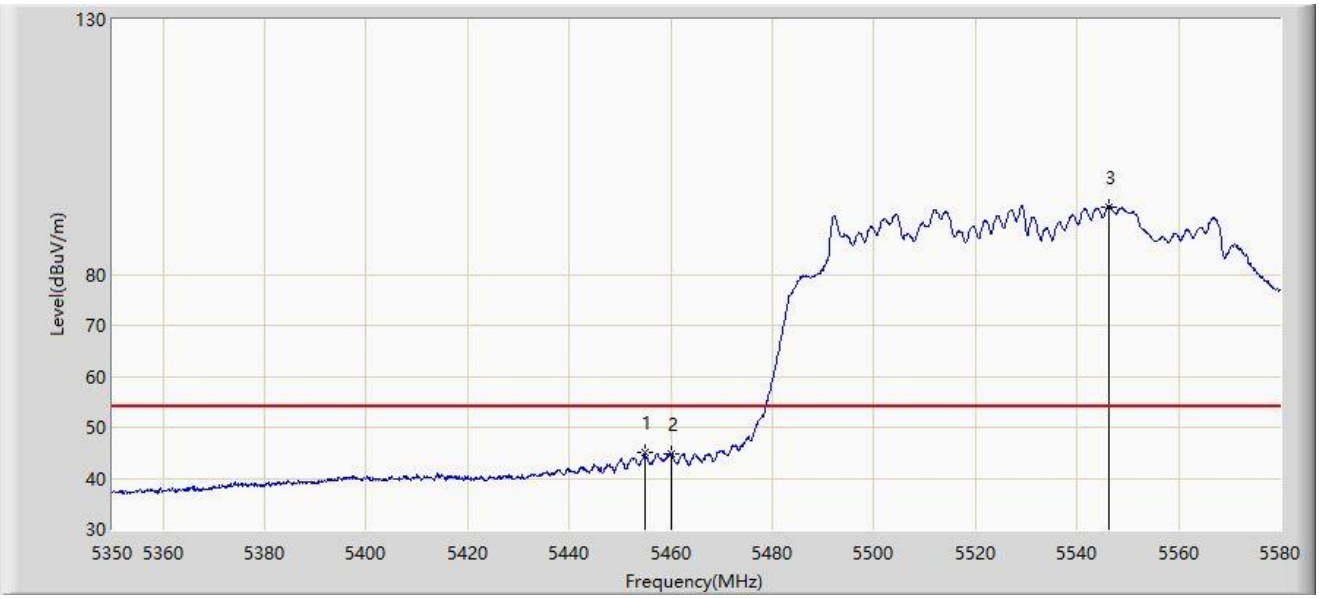
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5460.000	55.202	58.545	-12.998	68.200	-3.343	PK
2	*	5466.610	56.007	58.602	-12.193	68.200	-2.595	PK
3		5470.000	54.238	55.848	-13.962	68.200	-1.610	PK
4		5526.295	102.354	60.764	N/A	N/A	41.589	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ac-VHT80 at 5530MHz	



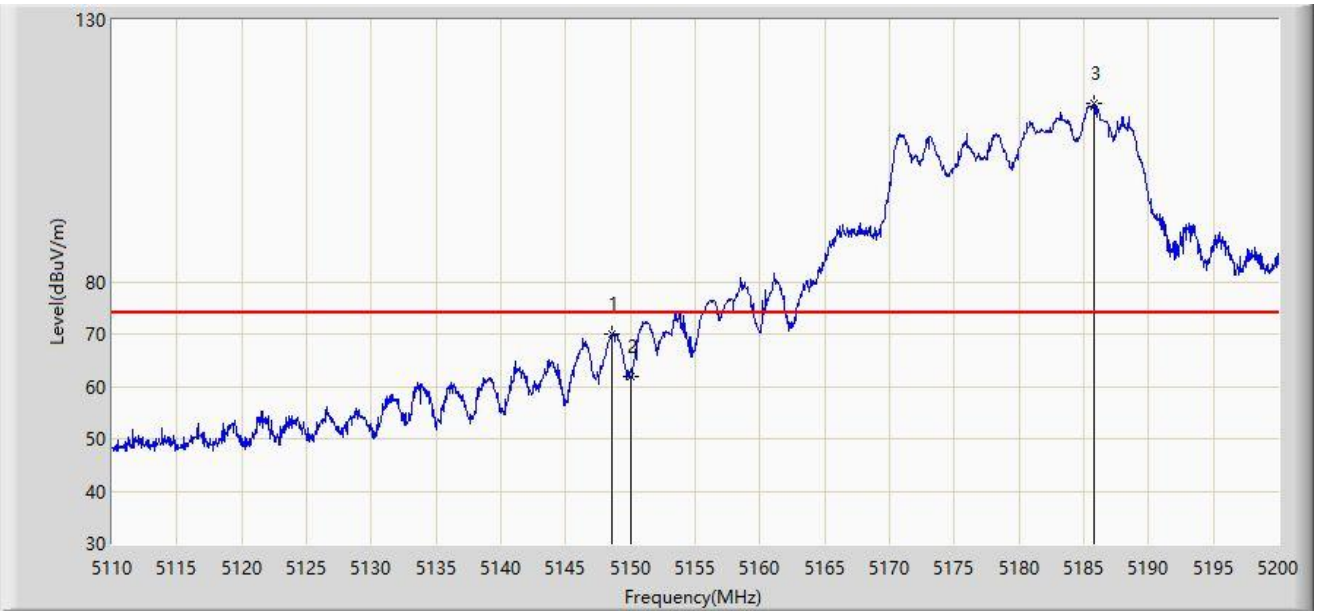
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5454.880	44.986	48.680	-9.014	54.000	-3.694	AV
2		5460.000	44.783	48.126	-9.217	54.000	-3.343	AV
3		5546.305	93.299	52.658	N/A	N/A	40.641	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:10
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5180MHz	



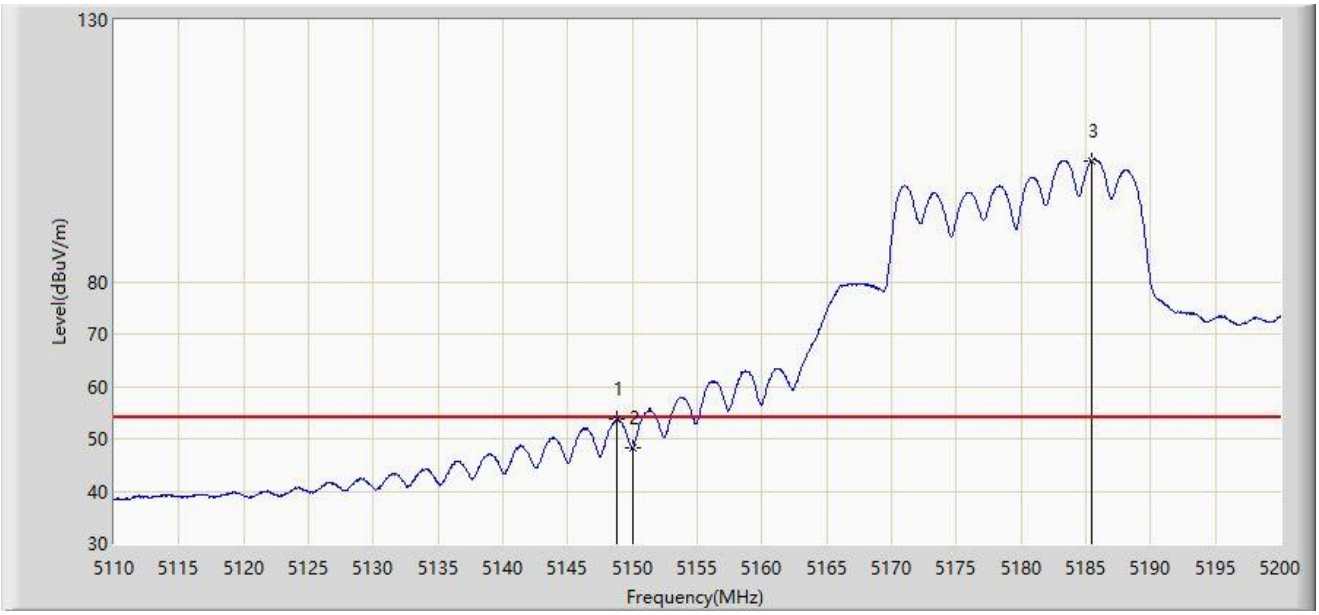
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5148.610	69.940	61.193	-4.060	74.000	8.747	PK
2		5150.000	61.869	52.724	-12.131	74.000	9.144	PK
3		5185.735	114.022	68.552	N/A	N/A	45.470	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:09
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5180MHz	



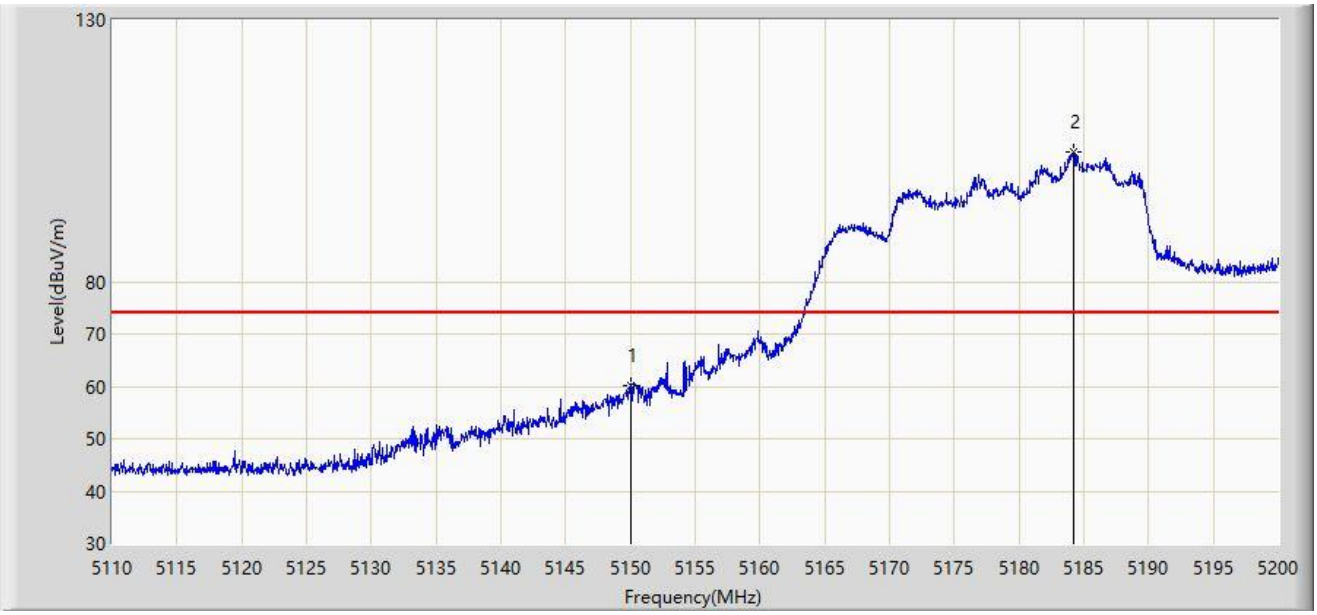
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5148.835	53.691	44.882	-0.309	54.000	8.809	AV
2		5150.000	48.243	39.098	-5.757	54.000	9.144	AV
3		5185.465	103.158	57.374	N/A	N/A	45.784	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:10
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5150.000	60.244	51.099	-13.756	74.000	9.144	PK
2		5184.160	104.927	57.003	N/A	N/A	47.924	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:14
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5180MHz	

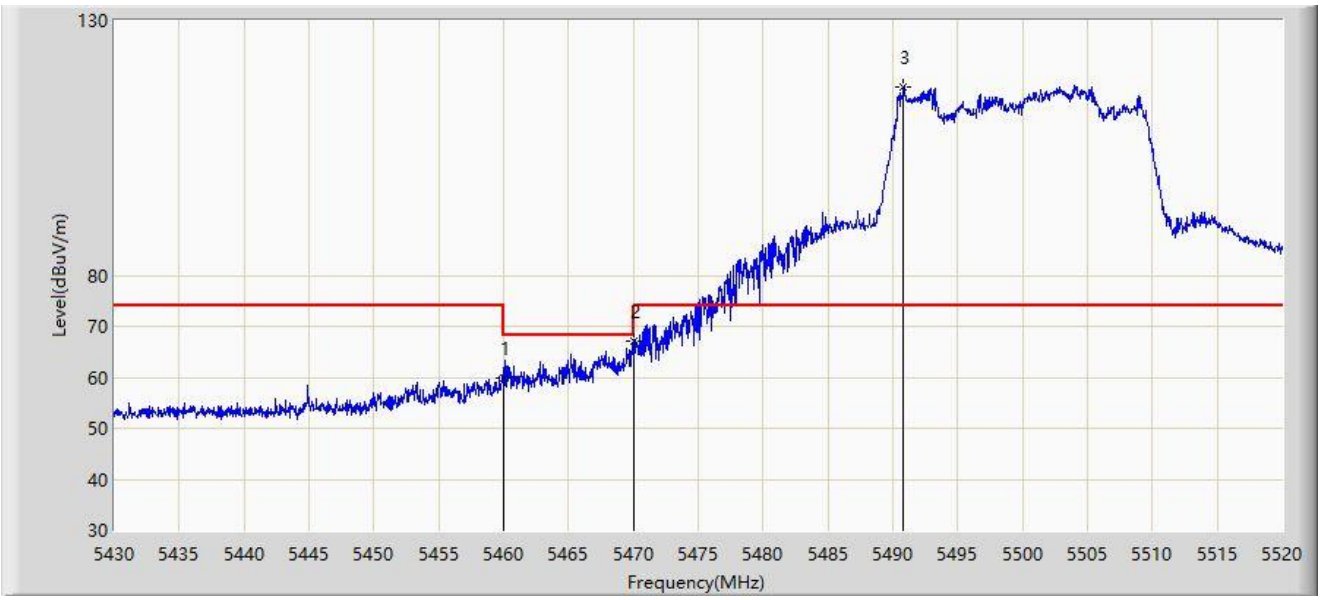
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5150.000	42.949	33.804	-11.051	54.000	9.144	AV
2		5183.980	93.124	44.860	N/A	N/A	48.264	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5500MHz	



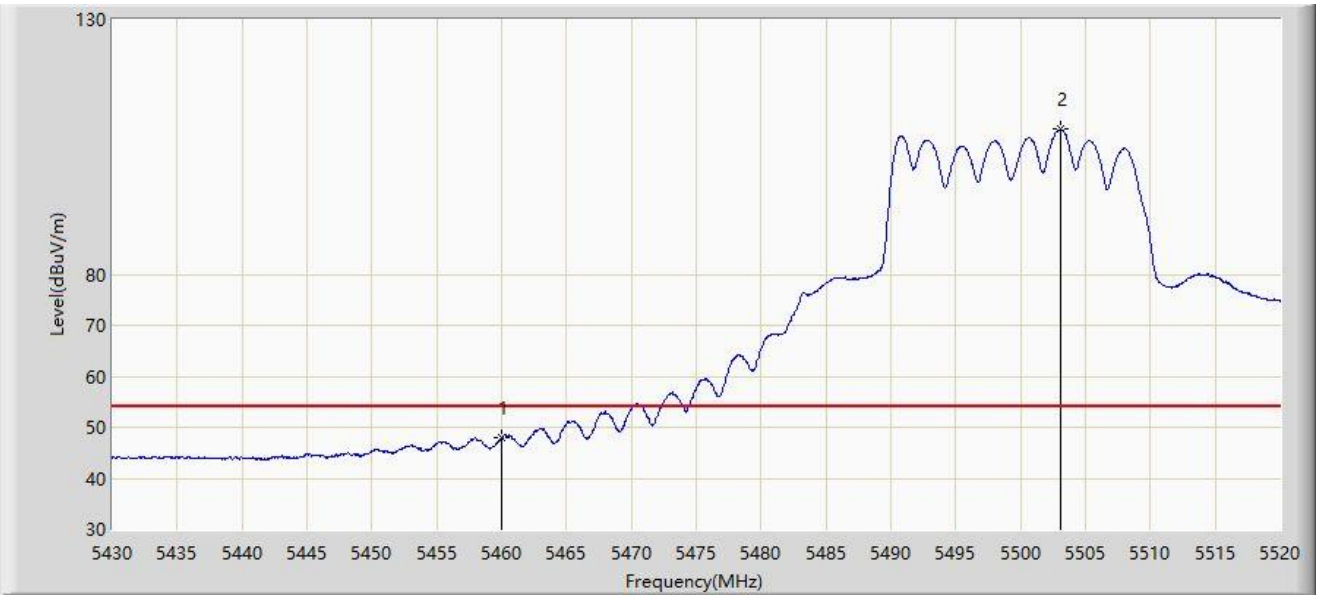
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5460.000	59.804	63.147	-8.396	68.200	-3.343	PK
2	*	5470.000	67.141	68.751	-1.059	68.200	-1.610	PK
3		5490.840	116.848	72.411	N/A	N/A	44.437	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5500MHz	



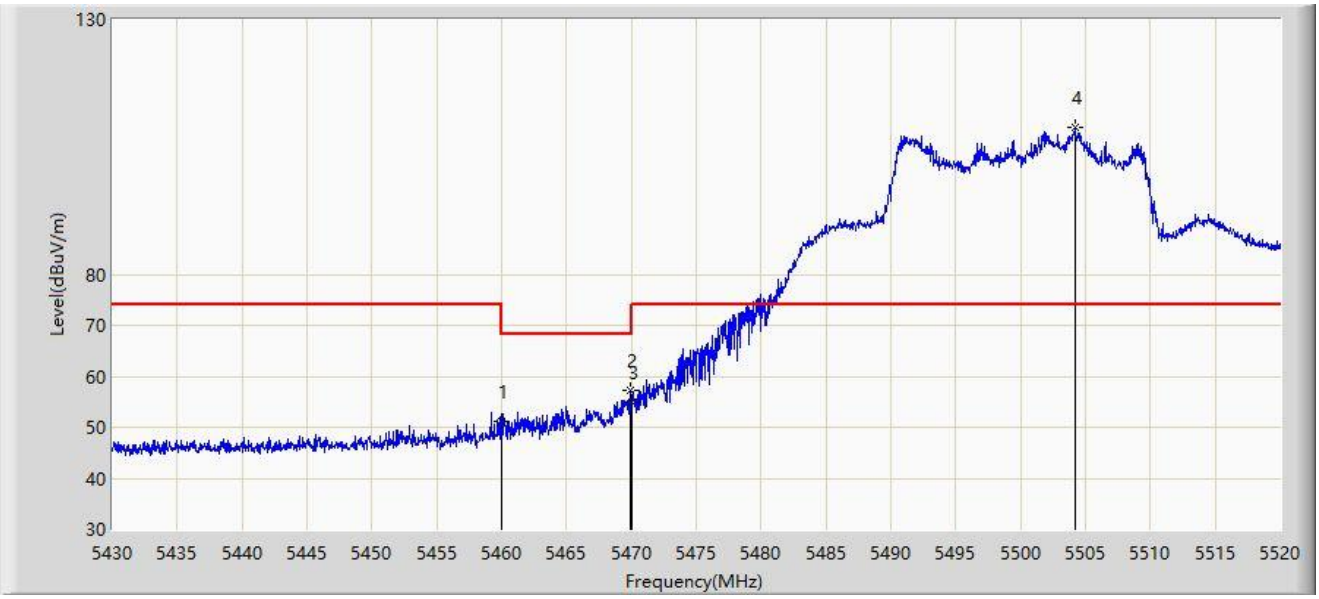
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5460.000	47.918	51.261	-6.082	54.000	-3.343	AV
2		5503.080	108.428	66.150	N/A	N/A	42.278	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5500MHz	



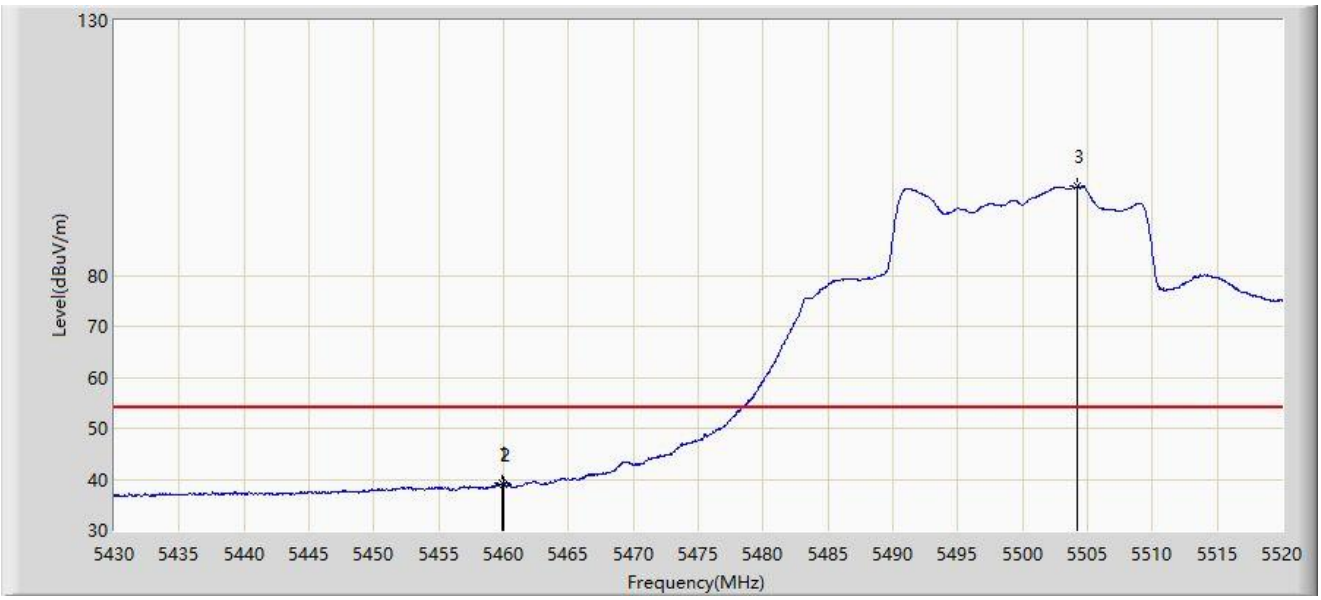
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5460.000	51.077	54.420	-17.123	68.200	-3.343	PK
2	*	5469.960	57.366	58.990	-10.834	68.200	-1.624	PK
3		5470.000	55.016	56.626	-13.184	68.200	-1.610	PK
4		5504.160	108.701	64.906	N/A	N/A	43.796	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5500MHz	



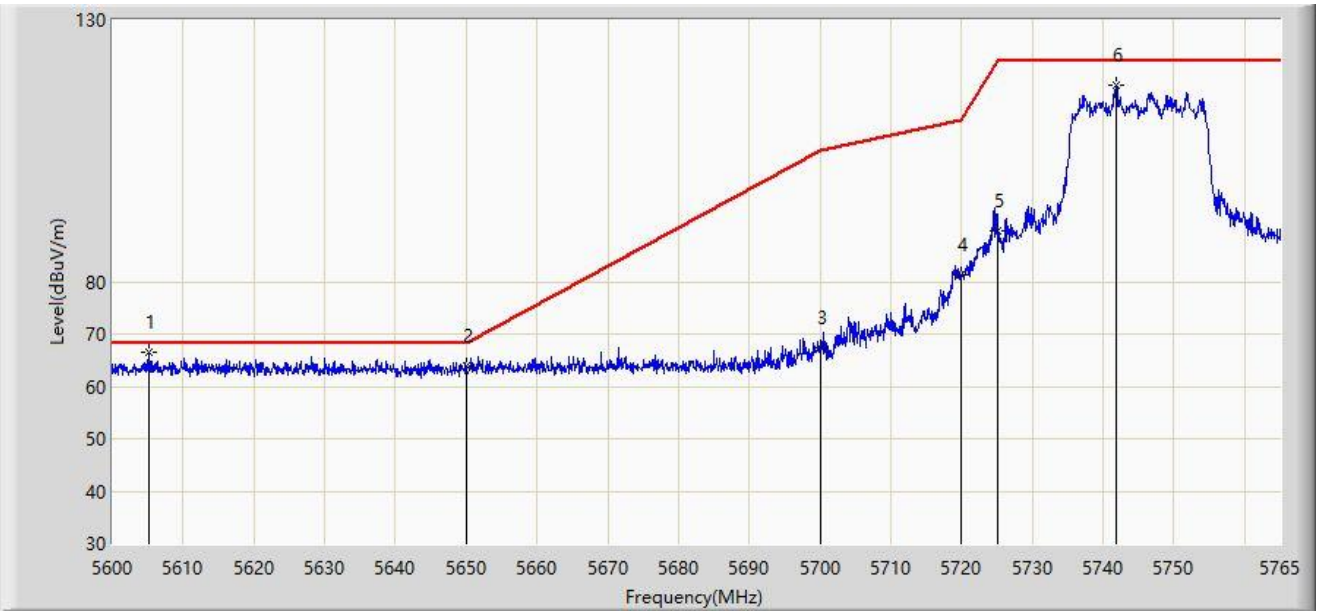
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5459.925	39.148	42.502	-14.852	54.000	-3.353	AV
2		5460.000	39.126	42.469	-14.874	54.000	-3.343	AV
3		5504.250	97.396	53.524	N/A	N/A	43.873	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 15:12
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5745MHz	



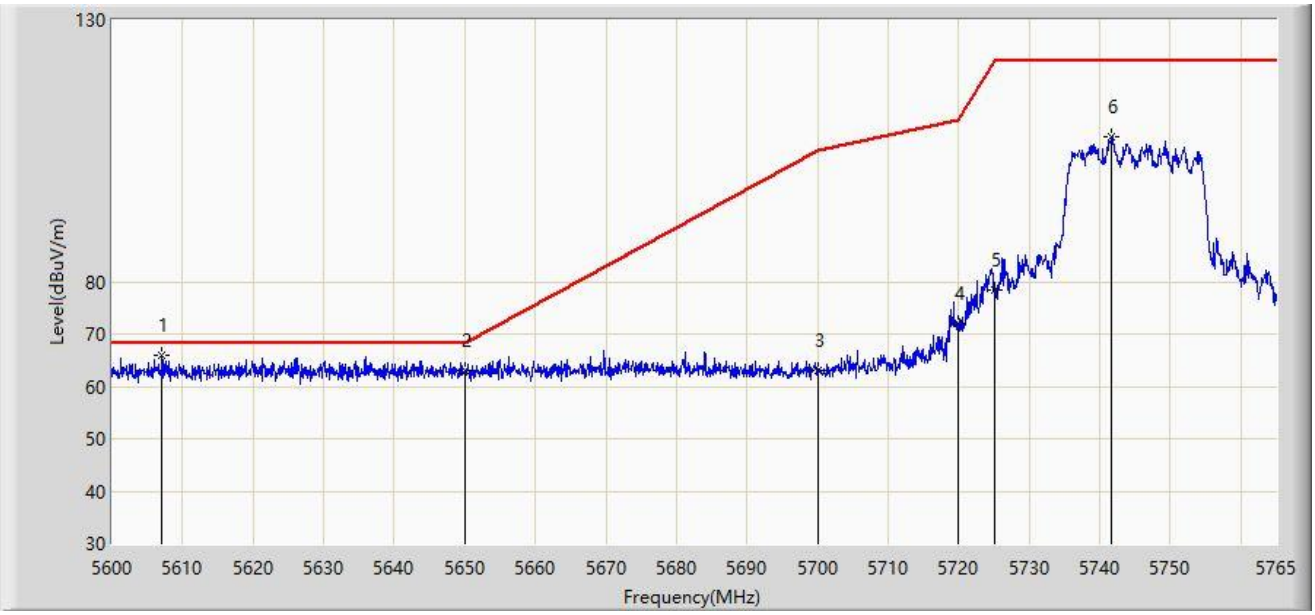
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5605.115	66.528	60.222	-1.672	68.200	6.306	PK
2		5650.000	63.772	57.495	-4.428	68.200	6.277	PK
3		5700.000	67.294	60.903	-37.906	105.200	6.391	PK
4		5720.000	81.291	75.006	-29.509	110.800	6.285	PK
5		5725.000	89.682	83.427	-32.518	122.200	6.254	PK
6		5741.817	117.641	111.229	N/A	N/A	6.411	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 15:15
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE20 at 5745MHz	



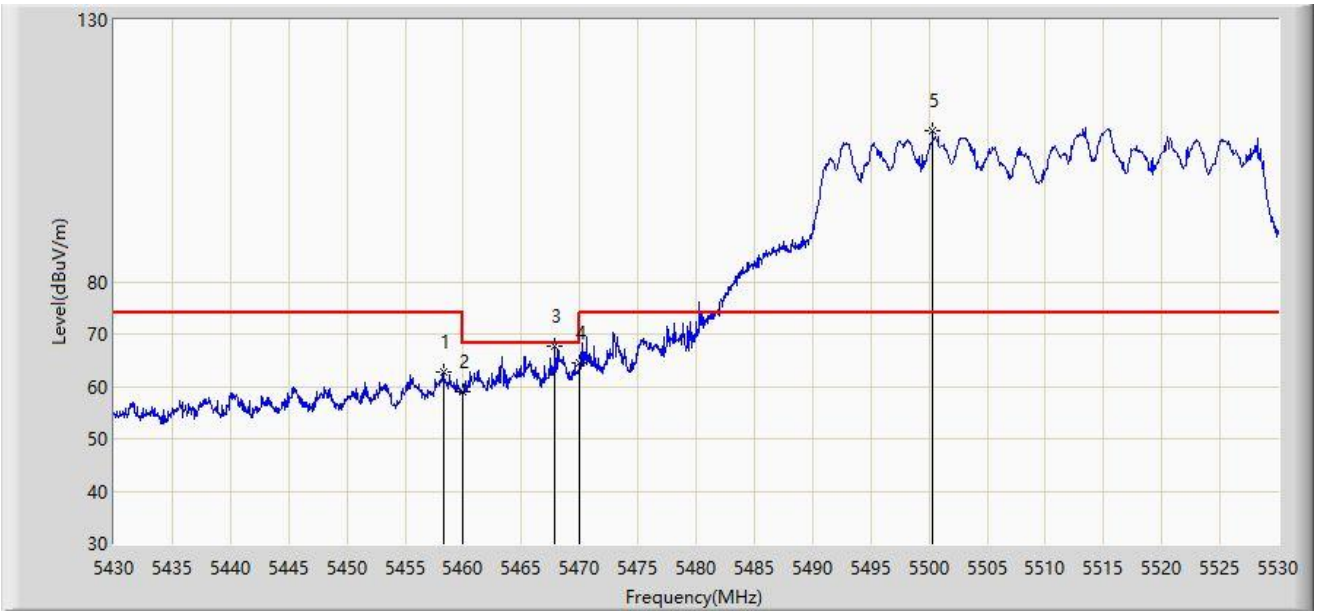
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5607.013	65.880	59.592	-2.320	68.200	6.288	PK
2		5650.000	63.071	56.794	-5.129	68.200	6.277	PK
3		5700.000	63.110	56.719	-42.090	105.200	6.391	PK
4		5720.000	72.025	65.740	-38.775	110.800	6.285	PK
5		5725.000	78.383	72.128	-43.817	122.200	6.254	PK
6		5741.652	107.817	101.407	N/A	N/A	6.410	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:17
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE40 at 5510MHz	



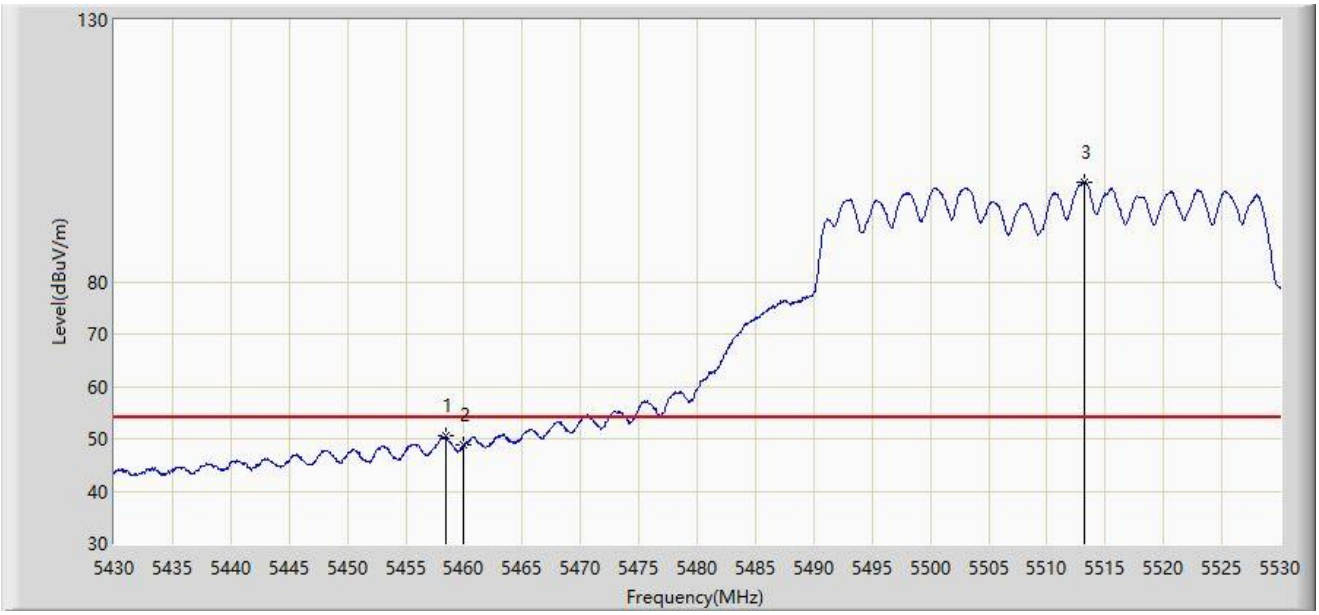
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5458.300	62.649	53.181	-11.351	74.000	9.468	PK
2		5460.000	58.985	49.470	-9.215	68.200	9.515	PK
3	*	5467.900	67.789	57.168	-0.411	68.200	10.621	PK
4		5470.000	64.628	53.390	-3.572	68.200	11.238	PK
5		5500.300	108.783	57.174	N/A	N/A	51.609	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:24
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE40 at 5510MHz	



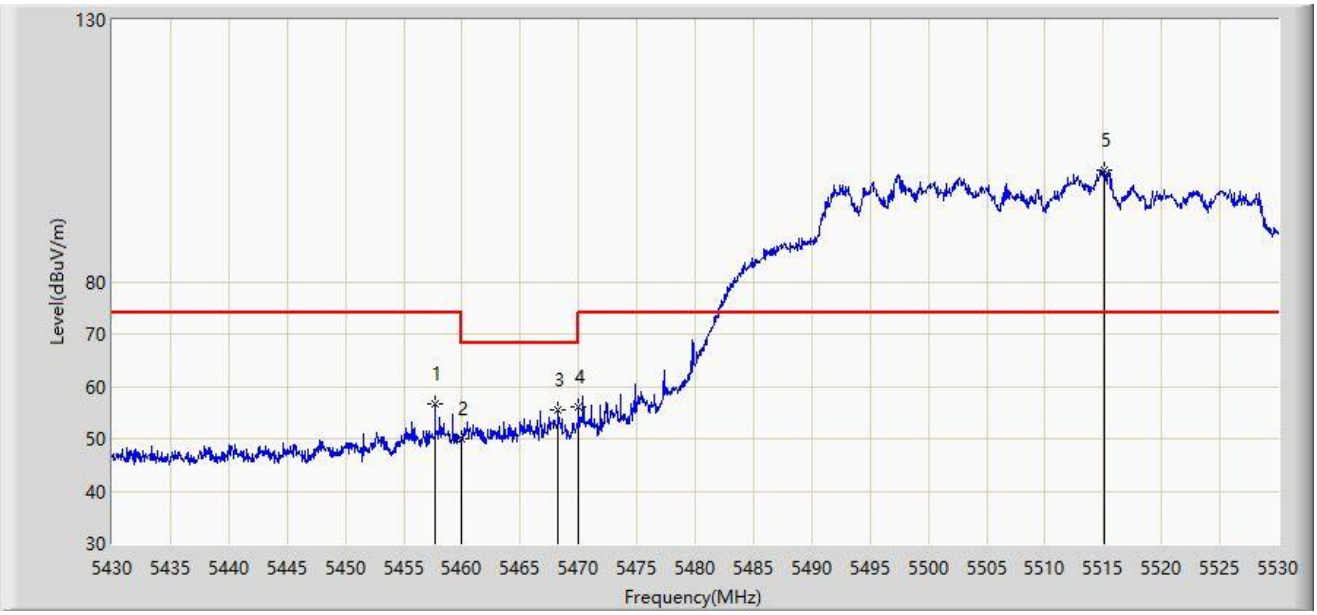
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5458.450	50.458	40.990	-3.542	54.000	9.468	AV
2		5460.000	48.753	39.238	-5.247	54.000	9.515	AV
3		5513.150	99.010	49.302	N/A	N/A	49.707	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:24
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE40 at 5510MHz	



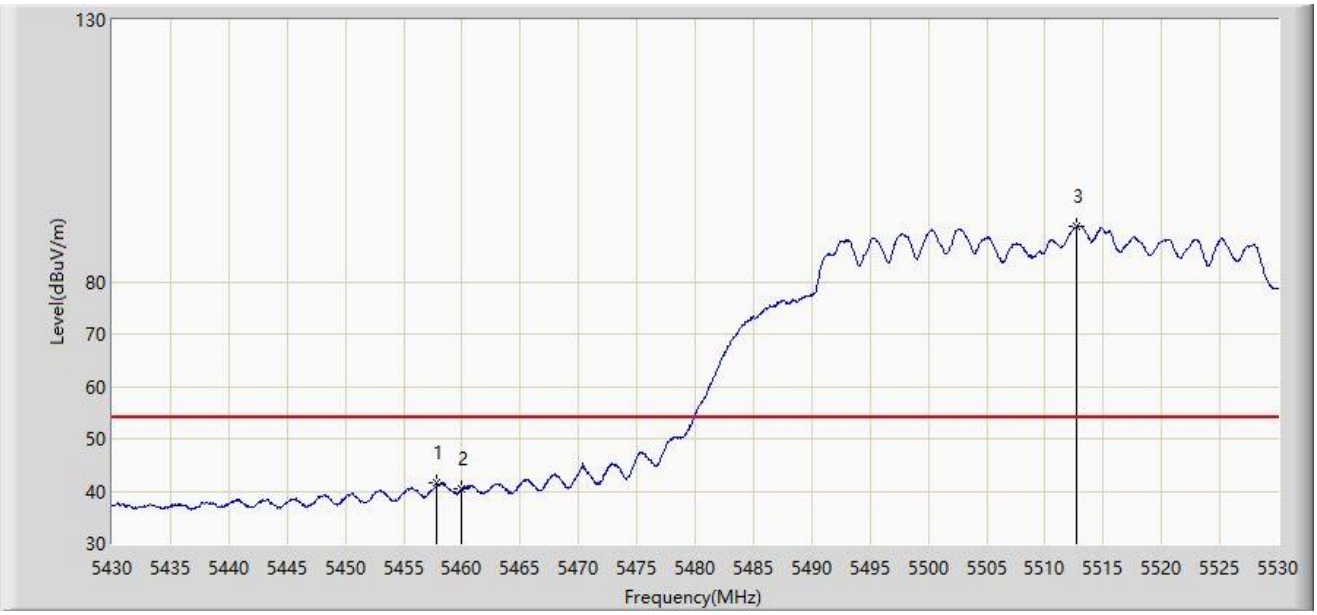
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5457.700	56.791	47.345	-17.209	74.000	9.446	PK
2		5460.000	50.040	40.525	-18.160	68.200	9.515	PK
3		5468.250	55.587	44.964	-12.613	68.200	10.623	PK
4	*	5470.000	56.183	44.945	-12.017	68.200	11.238	PK
5		5515.050	101.371	50.252	N/A	N/A	51.120	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:26
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE40 at 5510MHz	



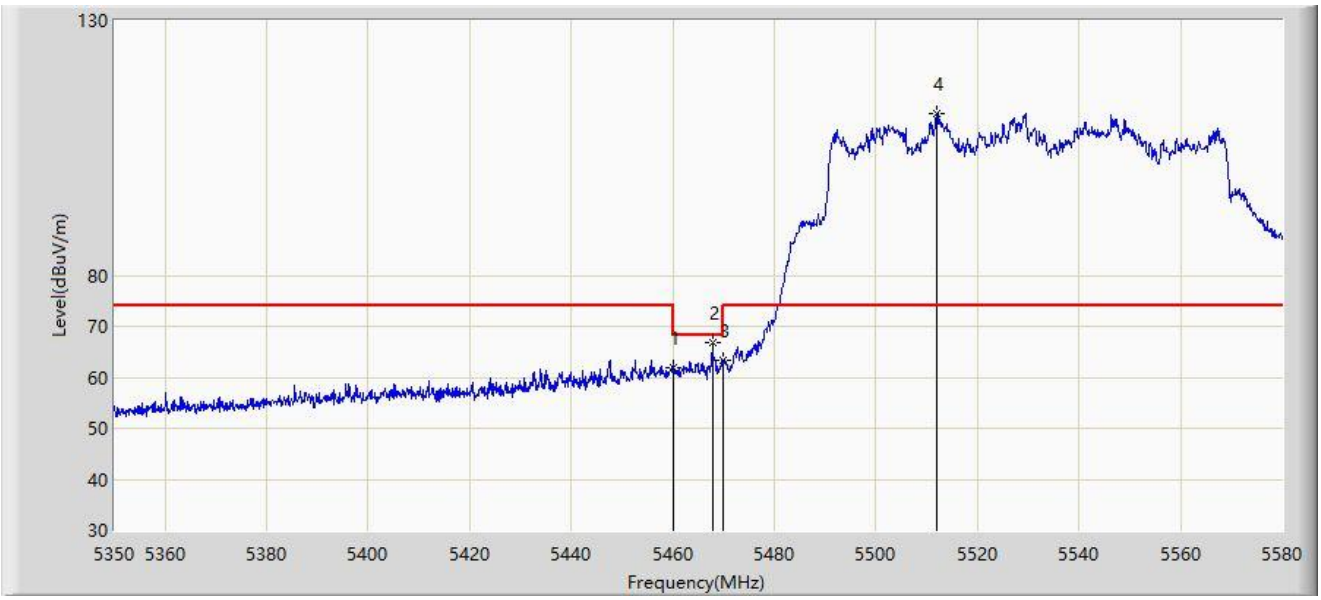
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5457.850	41.460	32.002	-12.540	54.000	9.458	AV
2		5460.000	40.309	30.794	-13.691	54.000	9.515	AV
3		5512.700	90.486	41.769	N/A	N/A	48.717	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5530MHz	



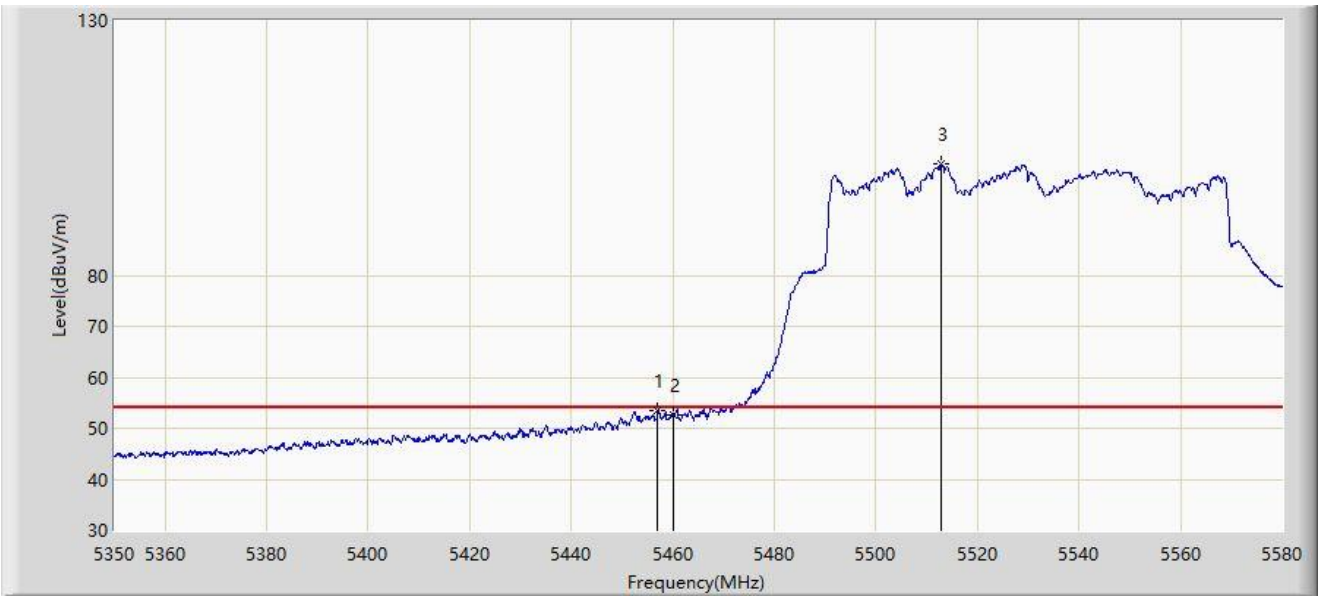
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5460.000	61.881	65.224	-6.319	68.200	-3.343	PK
2	*	5467.760	66.887	69.222	-1.313	68.200	-2.335	PK
3		5470.000	63.284	64.894	-4.916	68.200	-1.610	PK
4		5511.920	111.851	71.689	N/A	N/A	40.161	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5530MHz	



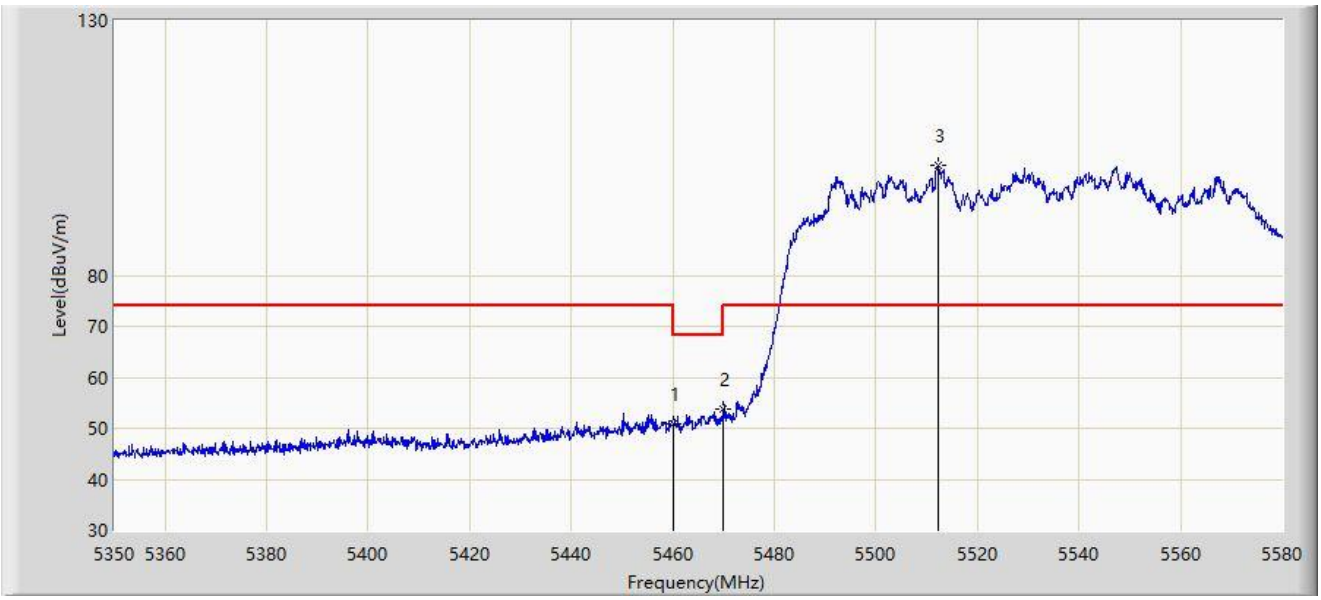
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5457.065	53.399	56.971	-0.601	54.000	-3.572	AV
2		5460.000	52.562	55.905	-1.438	54.000	-3.343	AV
3		5512.955	102.018	60.577	N/A	N/A	41.442	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5530MHz	



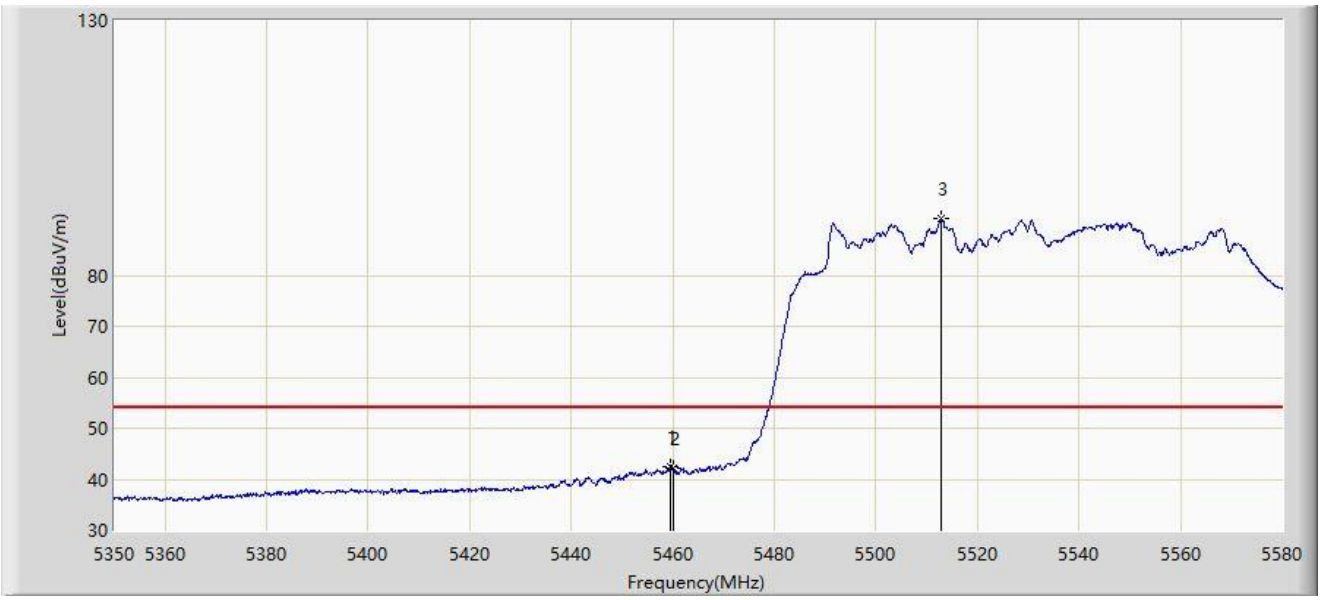
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5460.000	50.899	54.242	-17.301	68.200	-3.343	PK
2	*	5470.000	53.703	55.313	-14.497	68.200	-1.610	PK
3		5512.150	101.737	61.342	N/A	N/A	40.395	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Test Date:2023-10-19
Limit: FCC_5G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5530MHz	



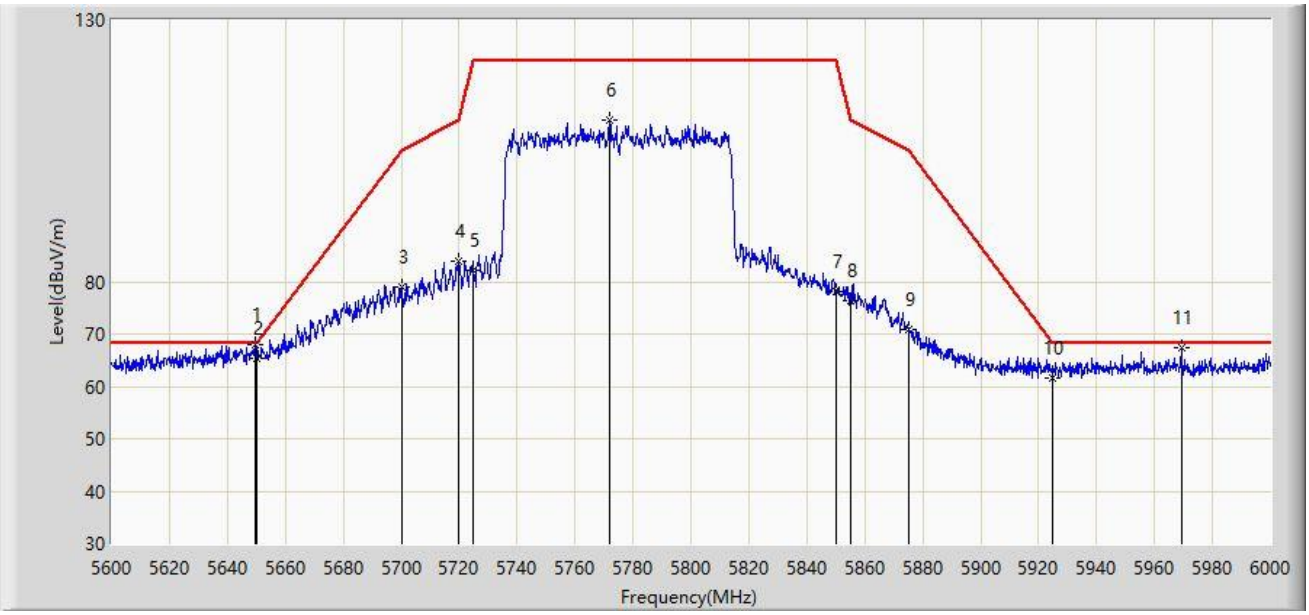
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5459.480	42.320	45.732	-11.680	54.000	-3.412	AV
2		5460.000	42.129	45.472	-11.871	54.000	-3.343	AV
3		5512.955	91.042	49.601	N/A	N/A	41.442	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 15:02
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5775MHz	



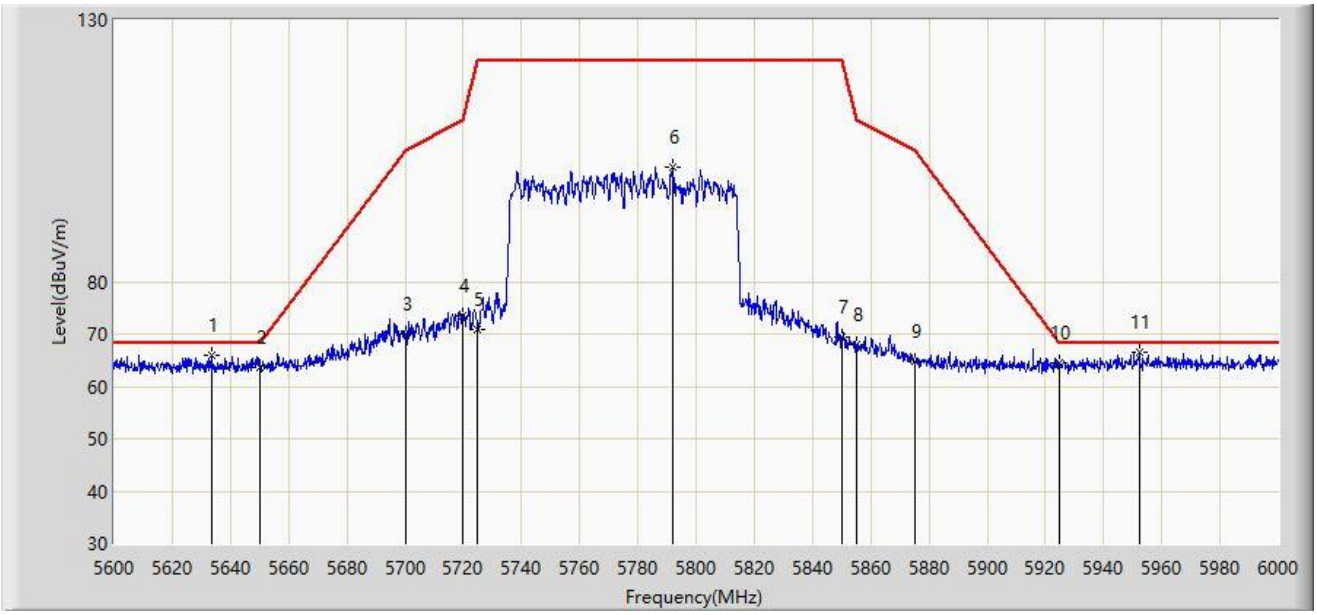
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5649.400	67.979	61.717	-0.221	68.200	6.263	PK
2		5650.000	65.359	59.082	-2.841	68.200	6.277	PK
3		5700.000	78.846	72.455	-26.354	105.200	6.391	PK
4		5720.000	83.950	77.665	-26.850	110.800	6.285	PK
5		5725.000	82.094	75.839	-40.106	122.200	6.254	PK
6		5772.000	110.759	104.076	N/A	N/A	6.683	PK
7		5850.000	78.195	71.228	-44.005	122.200	6.967	PK
8		5855.000	76.488	69.510	-34.312	110.800	6.978	PK
9		5875.000	70.924	64.002	-34.276	105.200	6.922	PK
10		5925.000	61.676	54.868	-6.524	68.200	6.808	PK
11		5969.200	67.329	60.301	-0.871	68.200	7.027	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 15:06
Limit: FCC_5.8G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE80 at 5775MHz	



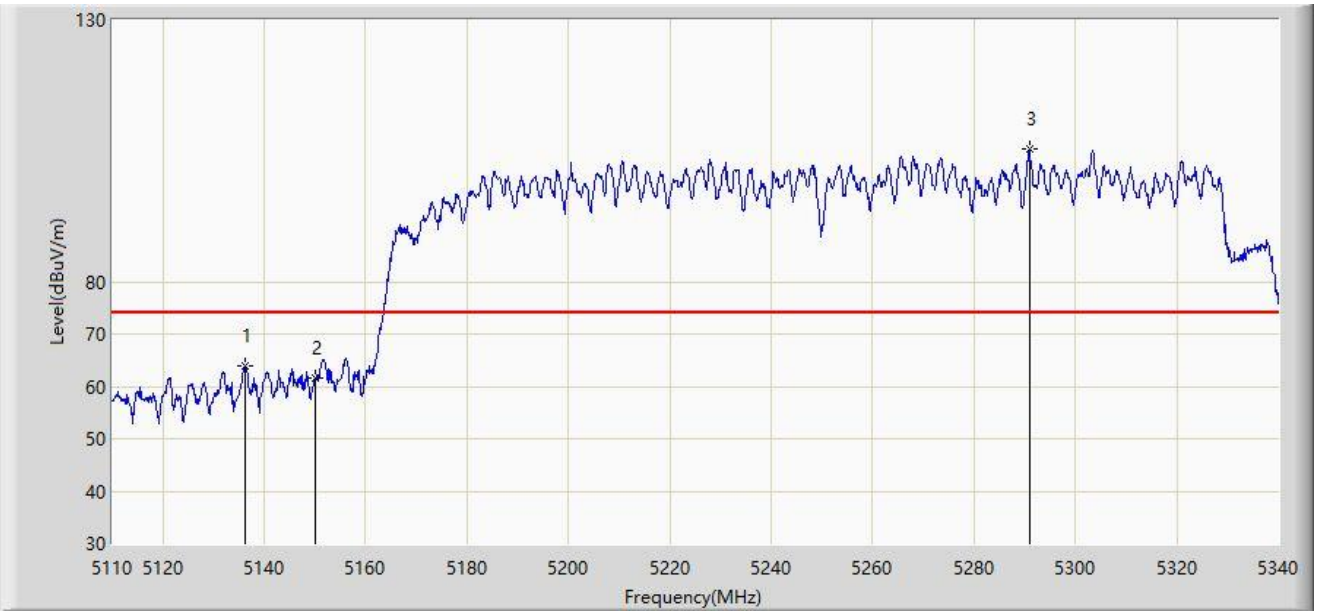
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5633.400	65.847	59.703	-2.353	68.200	6.144	PK
2		5650.000	63.613	57.336	-4.587	68.200	6.277	PK
3		5700.000	69.989	63.598	-35.211	105.200	6.391	PK
4		5720.000	73.580	67.295	-37.220	110.800	6.285	PK
5		5725.000	70.986	64.731	-51.214	122.200	6.254	PK
6		5791.800	101.786	95.302	N/A	N/A	6.484	PK
7		5850.000	69.320	62.353	-52.880	122.200	6.967	PK
8		5855.000	67.948	60.970	-42.852	110.800	6.978	PK
9		5875.000	64.684	57.762	-40.516	105.200	6.922	PK
10		5925.000	64.514	57.706	-3.686	68.200	6.808	PK
11	*	5952.200	66.531	59.529	-1.669	68.200	7.002	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:40
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5250MHz	



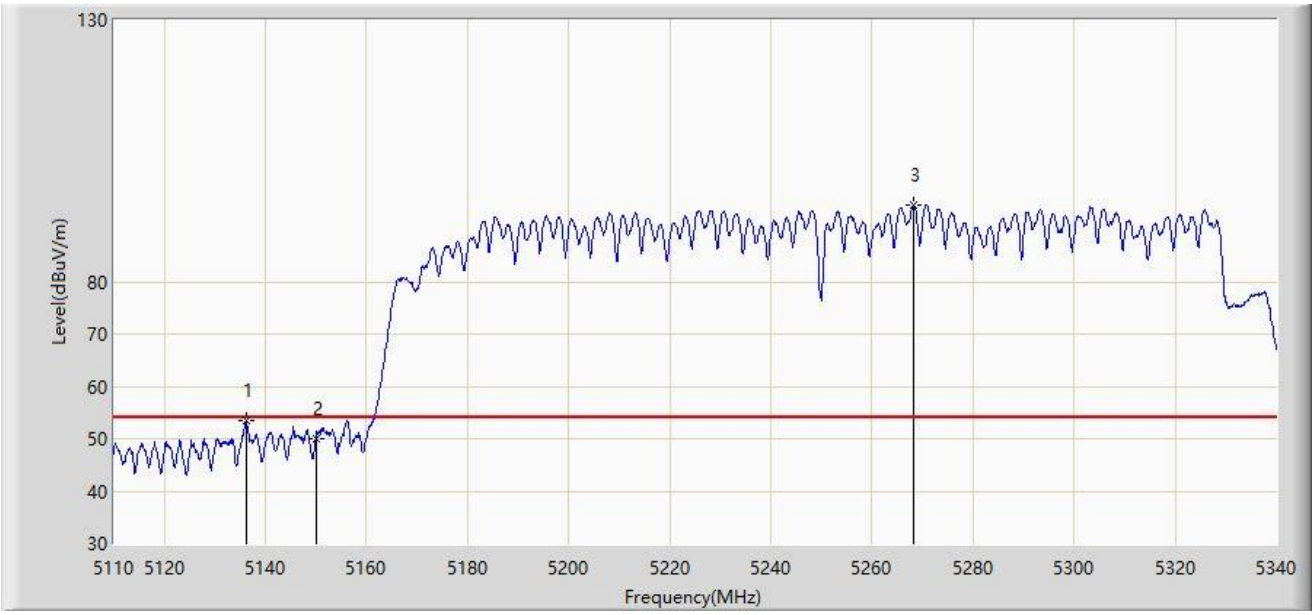
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5136.220	63.806	56.518	-10.194	74.000	7.288	PK
2		5150.000	61.618	52.473	-12.382	74.000	9.144	PK
3		5290.895	105.371	55.319	N/A	N/A	50.052	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:39
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5250MHz	



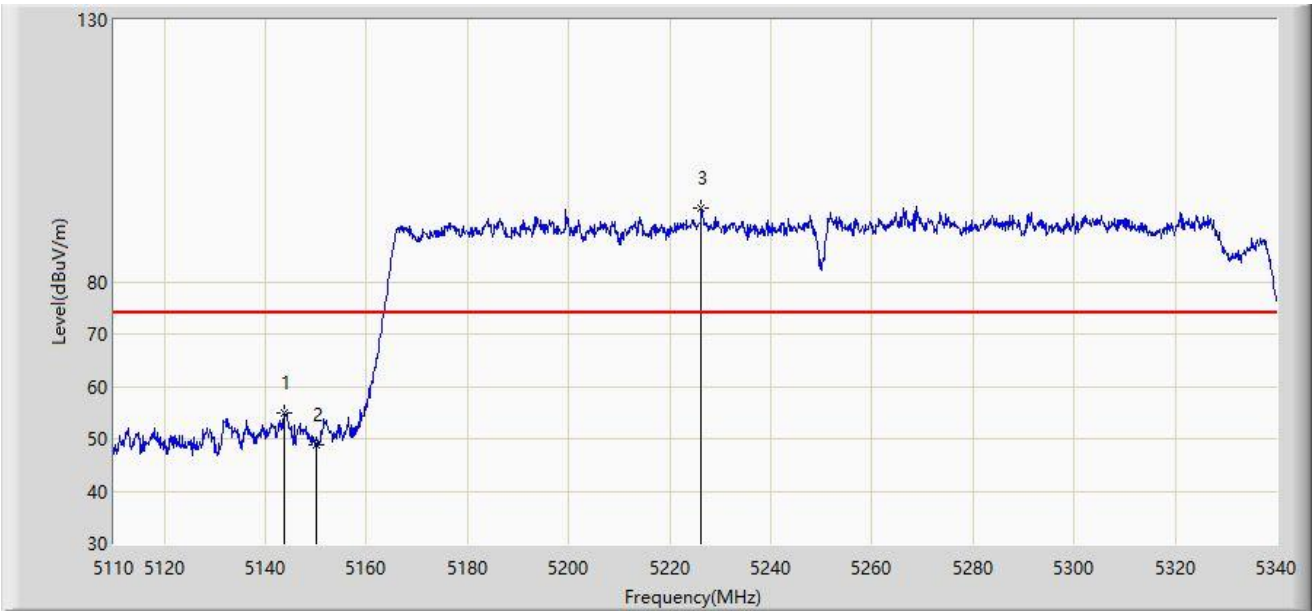
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5136.220	53.434	46.146	-0.566	54.000	7.288	AV
2		5150.000	49.920	40.775	-4.080	54.000	9.144	AV
3		5268.240	94.525	47.746	N/A	N/A	46.779	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:41
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5250MHz	



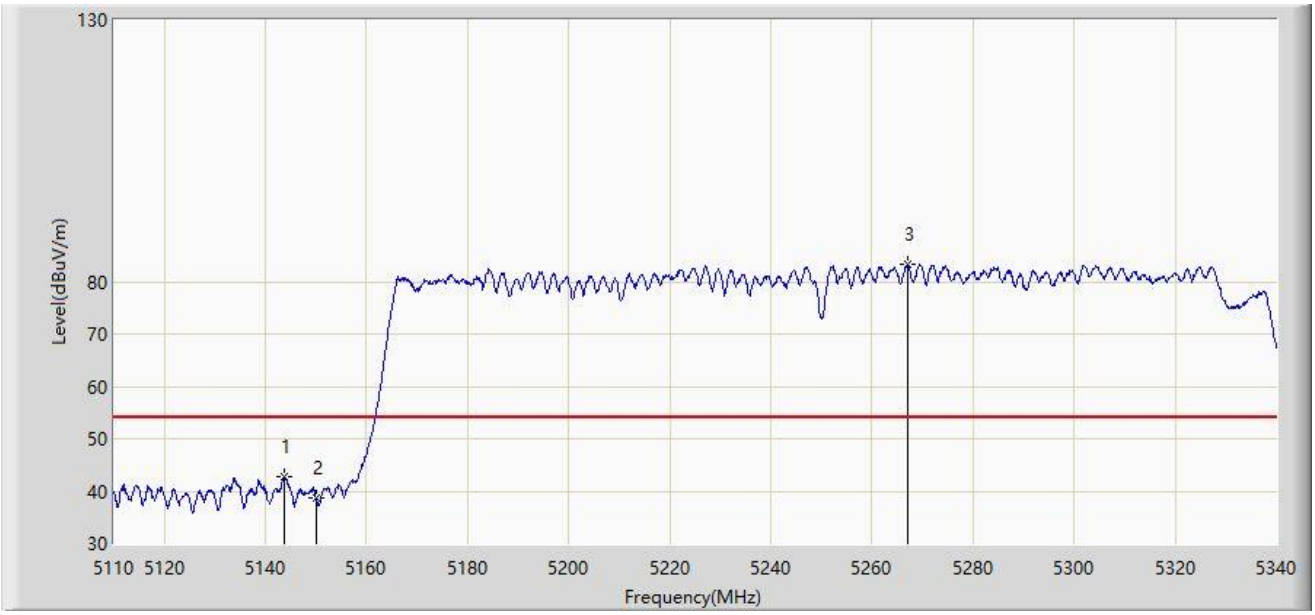
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5143.695	54.968	47.299	-19.032	74.000	7.669	PK
2		5150.000	48.877	39.732	-25.123	74.000	9.144	PK
3		5226.265	94.072	45.141	N/A	N/A	48.930	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 13:43
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5250MHz	



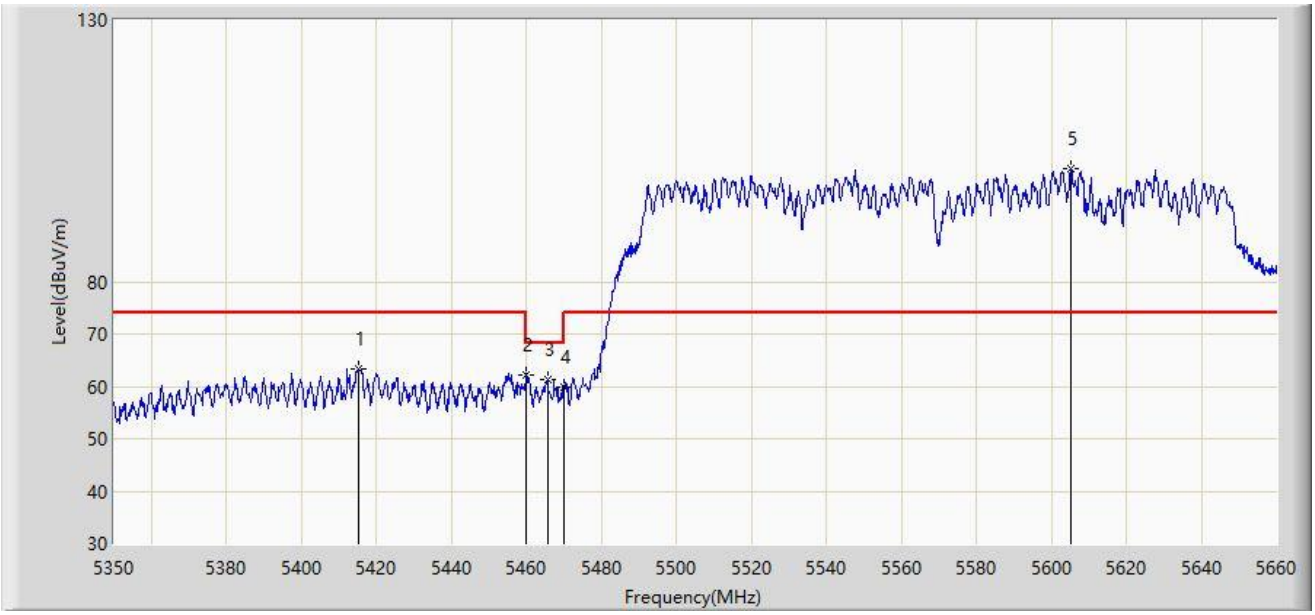
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5143.695	42.841	35.172	-11.159	54.000	7.669	AV
2		5150.000	38.654	29.509	-15.346	54.000	9.144	AV
3		5267.090	83.296	35.881	N/A	N/A	47.414	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:38
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5570MHz	



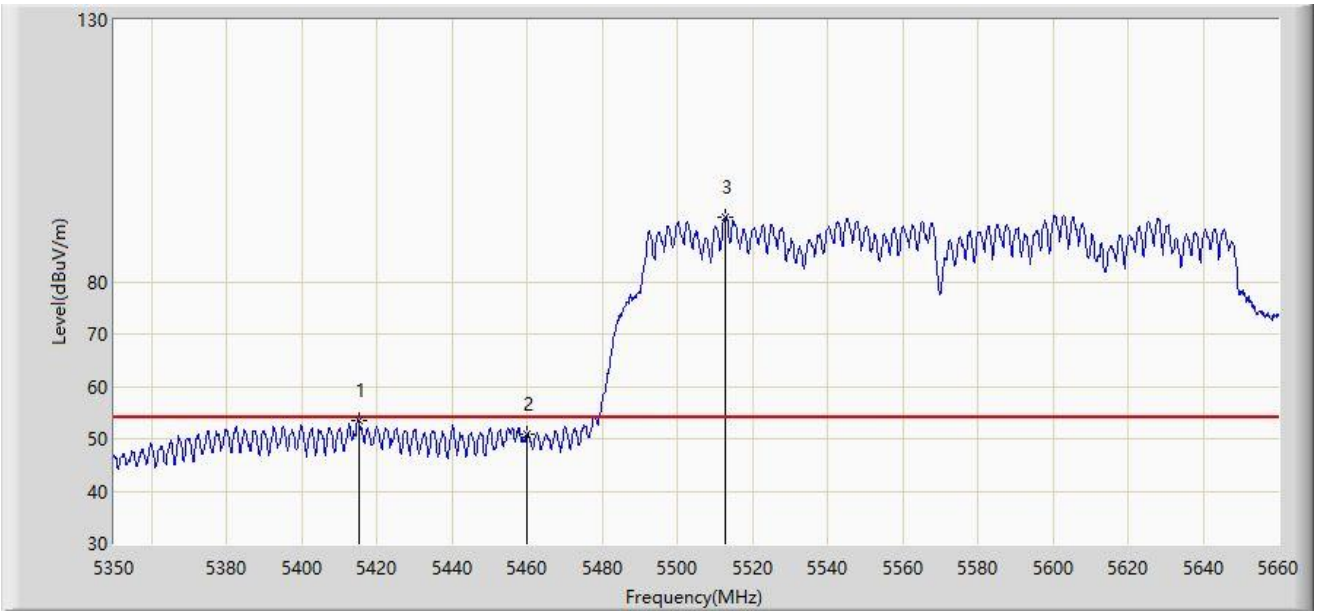
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5415.100	63.471	55.250	-10.529	74.000	8.220	PK
2	*	5460.000	62.051	52.536	-6.149	68.200	9.515	PK
3		5465.630	61.382	51.169	-6.818	68.200	10.213	PK
4		5470.000	59.918	48.680	-8.282	68.200	11.238	PK
5		5605.130	101.666	50.814	N/A	N/A	50.852	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:37
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5570MHz	



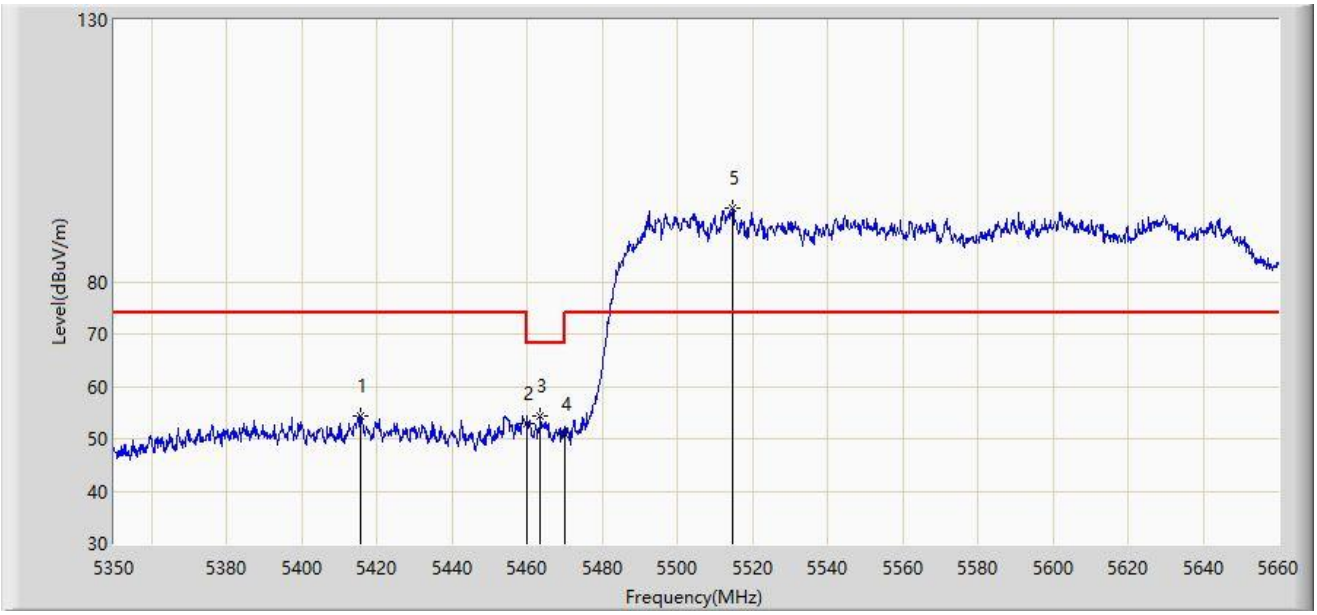
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	5415.100	53.516	45.295	-0.484	54.000	8.220	AV
2		5460.000	50.948	41.433	-3.052	54.000	9.515	AV
3		5512.750	92.305	43.529	N/A	N/A	48.777	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2023/11/18 - 14:39
Limit: FCC_5G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by 802.11ax-HE160 at 5570MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		5415.720	54.429	46.244	-19.571	74.000	8.185	PK
2		5460.000	52.901	43.386	-15.299	68.200	9.515	PK
3	*	5463.460	54.203	44.362	-13.997	68.200	9.841	PK
4		5470.000	50.943	39.705	-17.257	68.200	11.238	PK
5		5514.765	94.007	42.306	N/A	N/A	51.701	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).