



RF MEASUREMENT REPORT

FCC ID: HD5-EDA521

Applicant: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Mobile Computer

Model No.: EDA52-1

Brand Name: Honeywell

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Test Date: March 11, 2021 ~ January 07, 2022

Reviewed By:

Jame Yuan

Jame Yuan

Approved By:

Robin Wu

Robin Wu



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 ANSI C63.10-2013. 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
2112RSU039-U2	Rev. 01	Initial Report	01-20-2022	Valid

Note: EDA52-1 is a variation on the existing EDA52-0 (FCC ID: HD5-EDA520), added one LTE chipset, any others are the same. So EDA52-1 reuse all conducted test data from test report 2102RSU043-U3, and the radiated spurious emission items were fully tested.

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1. General Information

1.1. Applicant

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bailes Road, Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bales Road, Fort Mill, SC 29707 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
		☐ R-20141	☐ G-20134	☐ C-20103
☒	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	
☐	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: L3261-190725		FCC: 291082, TW3261	
			ISED: TW3261	

1.4. Product Information

Product Name	Mobile Computer
Model No.	EDA52-1
Serial No.	Conducted Sample: 20210209Sample#01
	Radiated Sample: 21356B28C7
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.0 dual mode
NFC Specification	Active, 13.56MHz
GNSS Specification	GPS/Galileo/BDS/GLONASS
3GPP Specification	GSM 850/1900
	WCDMA Band 2/4/5
	LTE Band 2/4/5/7/12/13/17/25/26/30/38/40/41/66
Antenna Information	Refer to section 1.5
Working Voltage	3.8Vdc
Accessories	
Adapter	Model No.: ADS-12B-06 05010E
	Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A
	Output Power: 5VDC 2.0A
Rechargeable Li-ion Battery	Model No.: EDA52-BAT-US
	Capacitance: 4500mAh 17.1Wh
	Rated Voltage: 3.8V
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	FPC Antenna
Antenna Gain	1.84dBi

Note: For other features of this EUT, test report will be issued separately.

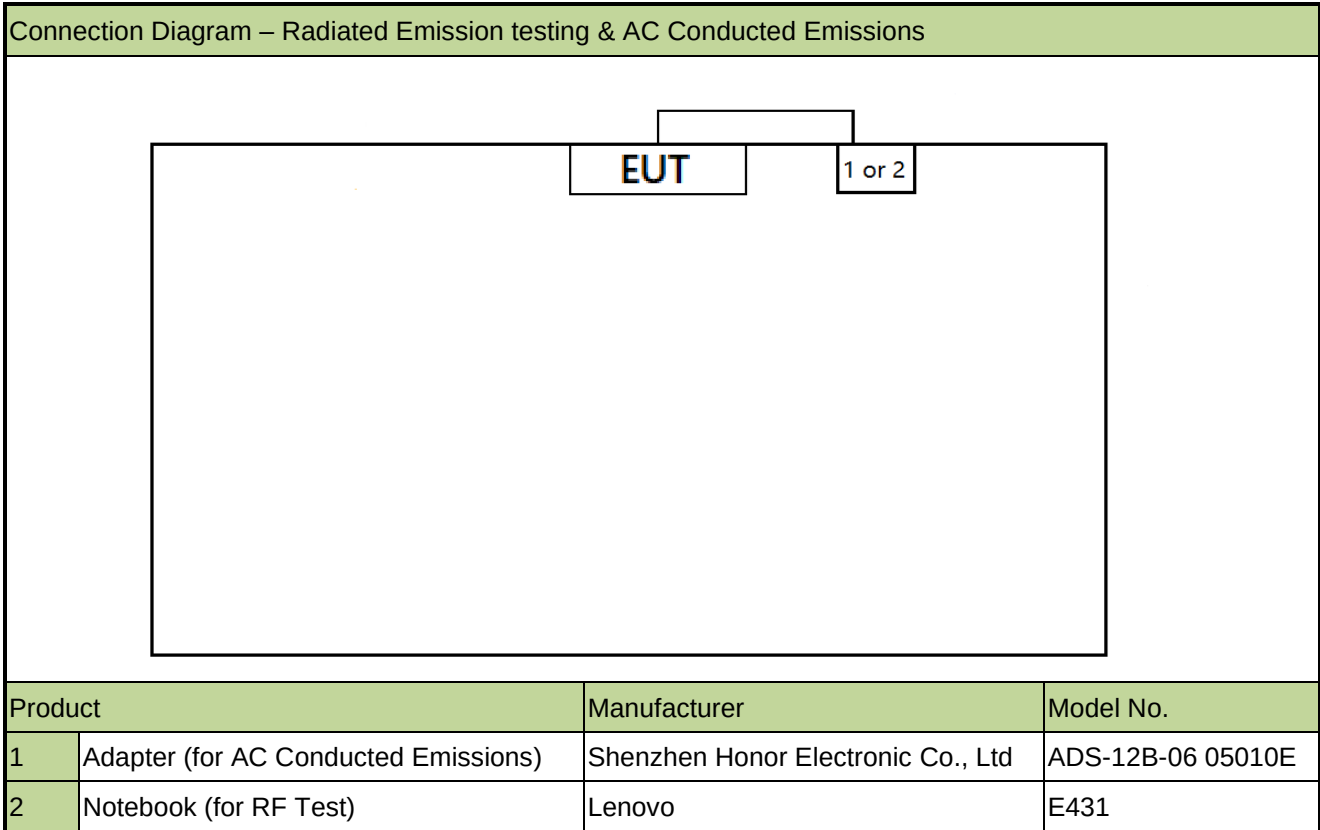
1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2. Test Configuration

2.1. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.2. Test Software

The test utility software used during testing was “QRCT”, and the version was 3.0.268.0.

2.3. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.4. 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 **Mobile Computer** 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

Conducted Test Equipment

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2021/04/14	WZ-TR3
				1 year	2022/04/13	WZ-TR3
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022/01/07	WZ-TR3
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2021/04/14	WZ-TR3
				1 year	2022/04/13	WZ-TR3
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2021/10/22	WZ-TR3
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2021/08/30	WZ-TR3
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2021/08/08	WZ-TR3
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2021/06/11	WZ-TR3
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2021/06/11	WZ-TR3
Modulation Analyzer	HP	HP8901A	MRTSUE06098	1 year	2021/09/26	WZ-TR3
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2021/10/20	WZ-TR3
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A	WZ-TR3
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2021/10/22	WZ-TR3
Thermal Hygrometer	testo	608-H1	MRTSUE06401	1 year	2021/07/26	WZ-TR3
Attenuator	MVE	6dB	MRTSUE06534	1 year	N/A	WZ-TR3
Attenuator	MVE	10dB	MRTSUE06543	1 year	N/A	WZ-TR3

Radiated Test Equipment

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Agilent	N9010A	MRTSUE06195	1 year	2022/3/17	NS-AC1/NS-TR2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06292	1 year	2022/10/20	NS-AC1
Anechoic Chamber	BOOMWAVE	NS-AC1	MRTSUE06496	1 year	2022/7/24	NS-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2022/3/9	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06572	1 year	2022/3/14	NS-AC1
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06573	1 year	2022/6/29	NS-AC1
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06574	1 year	2022/7/12	NS-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2022/6/27	NS-AC1
Thermohygrometer	DELI	NO.8813	MRTSUE06588	1 year	2022/6/30	NS-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06641	1 year	2022/1/12	NS-AC1

Signal Analyzer	Keysight	N9020A	MRTSUE10065	1 year	2022/1/10	NS-AC1/NS-TR2
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Software	Version	Function
EMI Software	V3	EMI Test Software

5. 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
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.15dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. 6dB Bandwidth

6.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

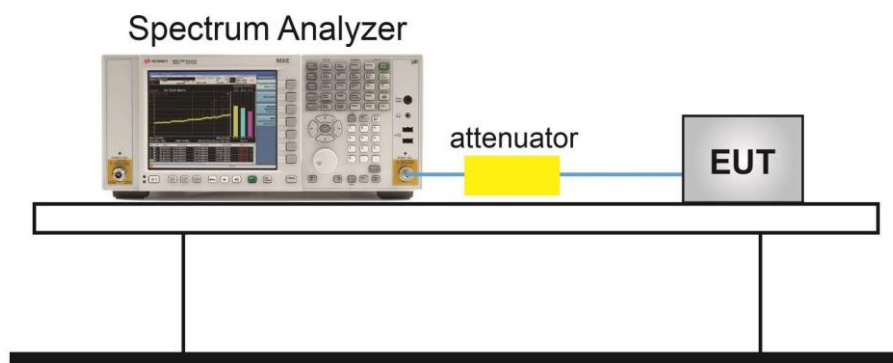
6.2.2. Test Procedure used

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Output Power

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure Used

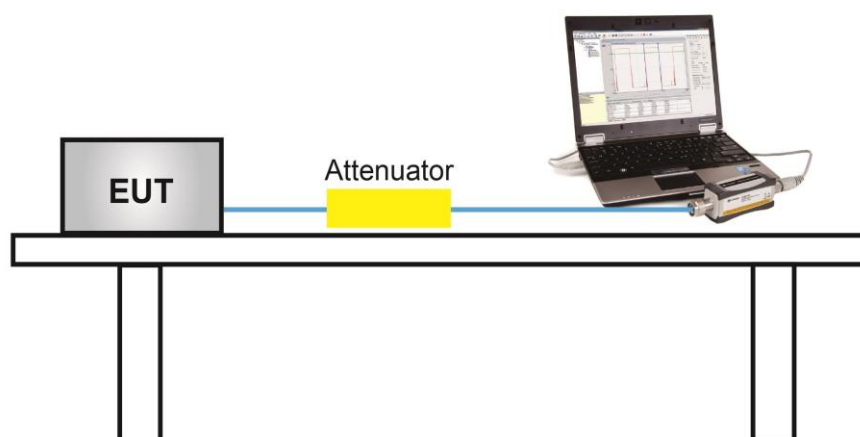
ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. 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.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Power Spectral Density

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

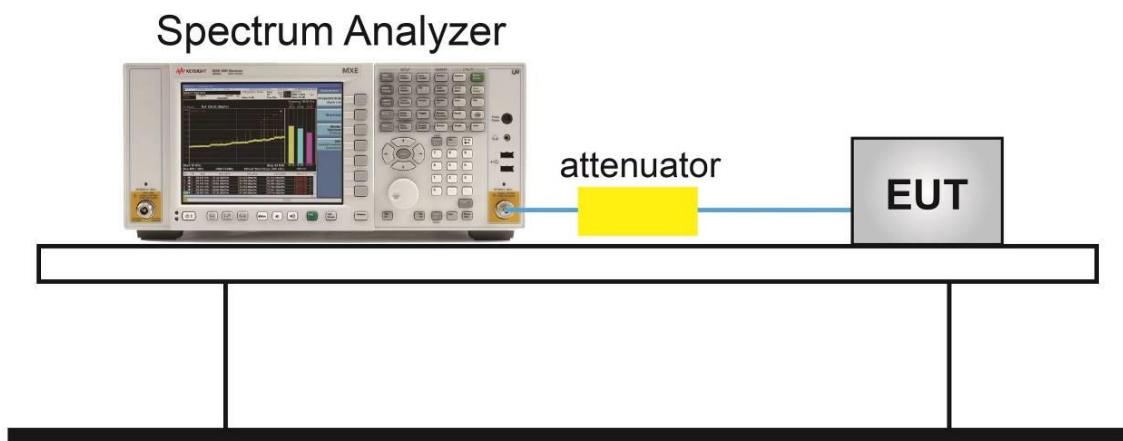
6.4.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the OBW
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = Peak
6. Sweep time = Auto couple
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Conducted Band Edge and Out-of-Band Emissions

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

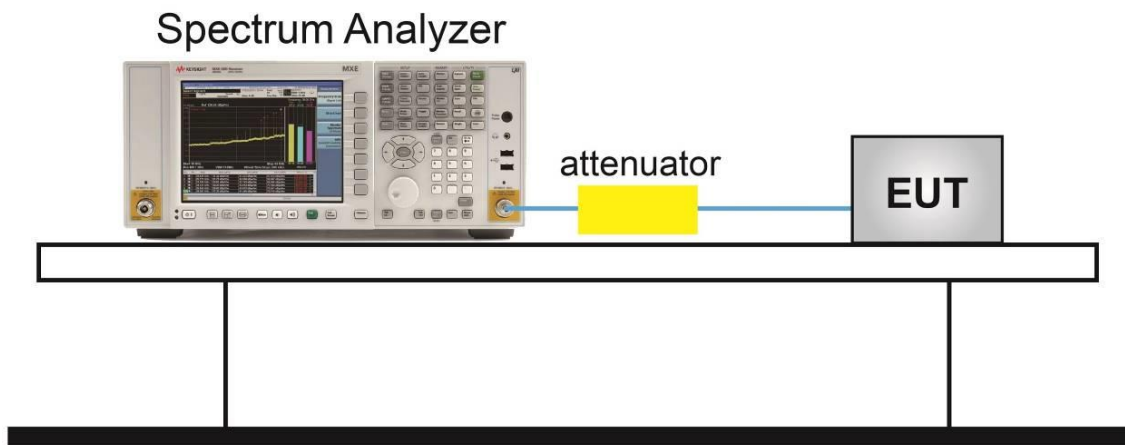
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

6.6. Radiated Spurious Emission

6.6.1. 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 [uV/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

6.6.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. 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

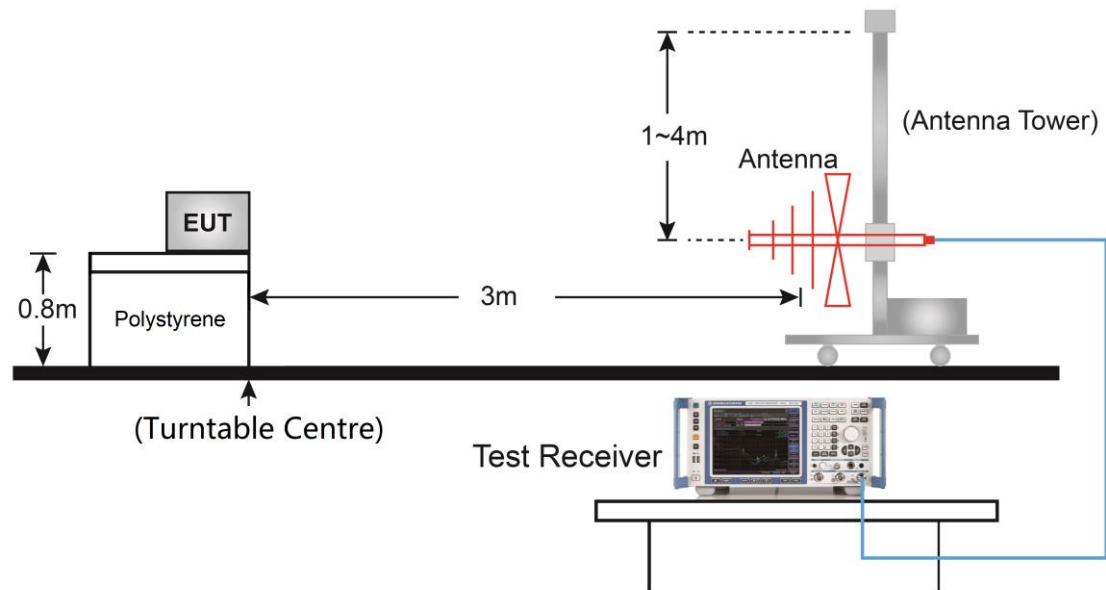
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

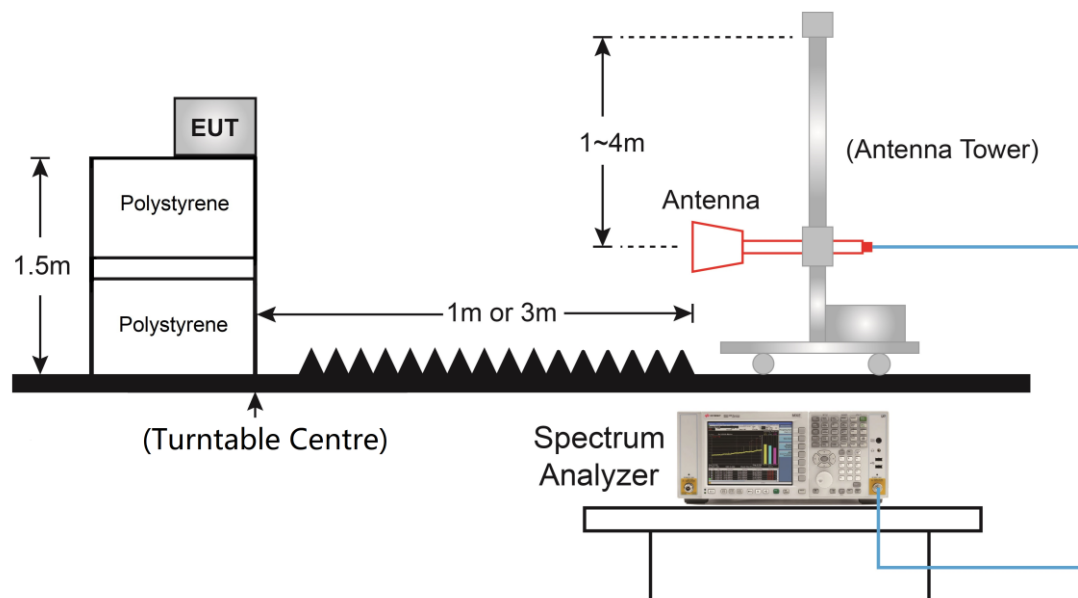
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.5.

6.7. Radiated Restricted Band Edge

6.7.1. 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	--	--	--

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 [uV/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

6.7.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 11.13

6.7.3. Test Setting

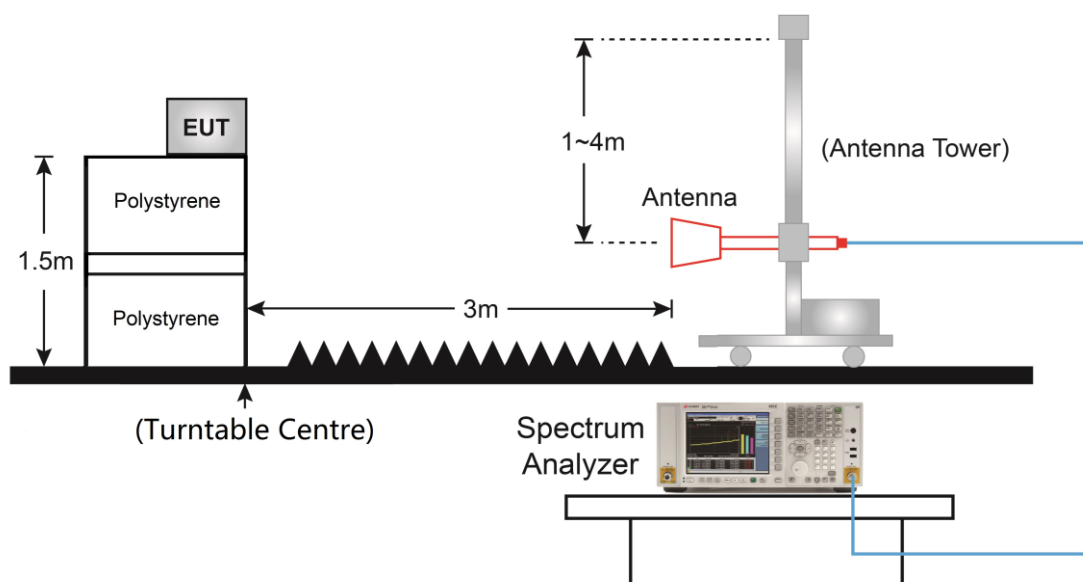
Peak Field Strength Measurements

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 Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.6.

6.8. AC Conducted Emissions

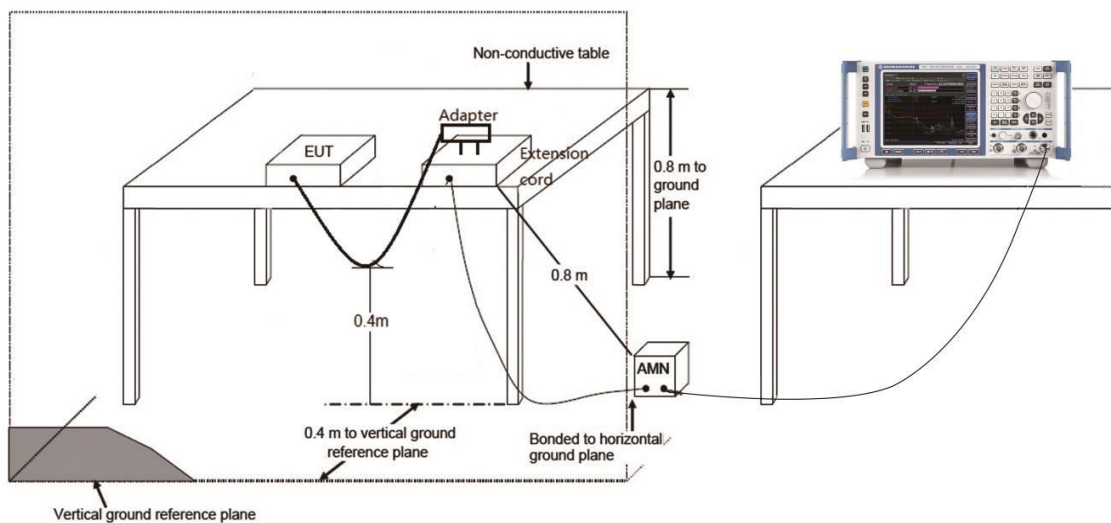
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 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.

6.8.2. Test Setup



6.8.3. Test Result

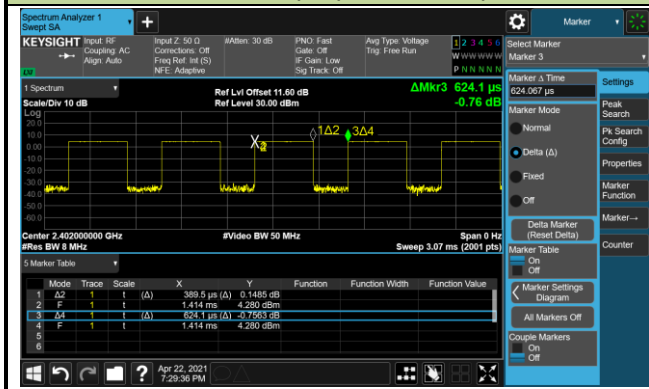
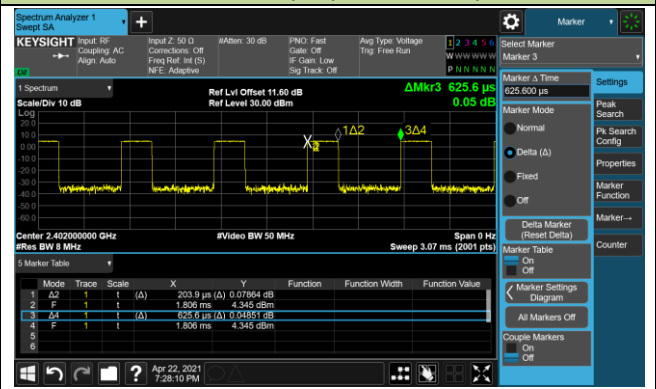
Refer to Appendix A.7.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/04/22		

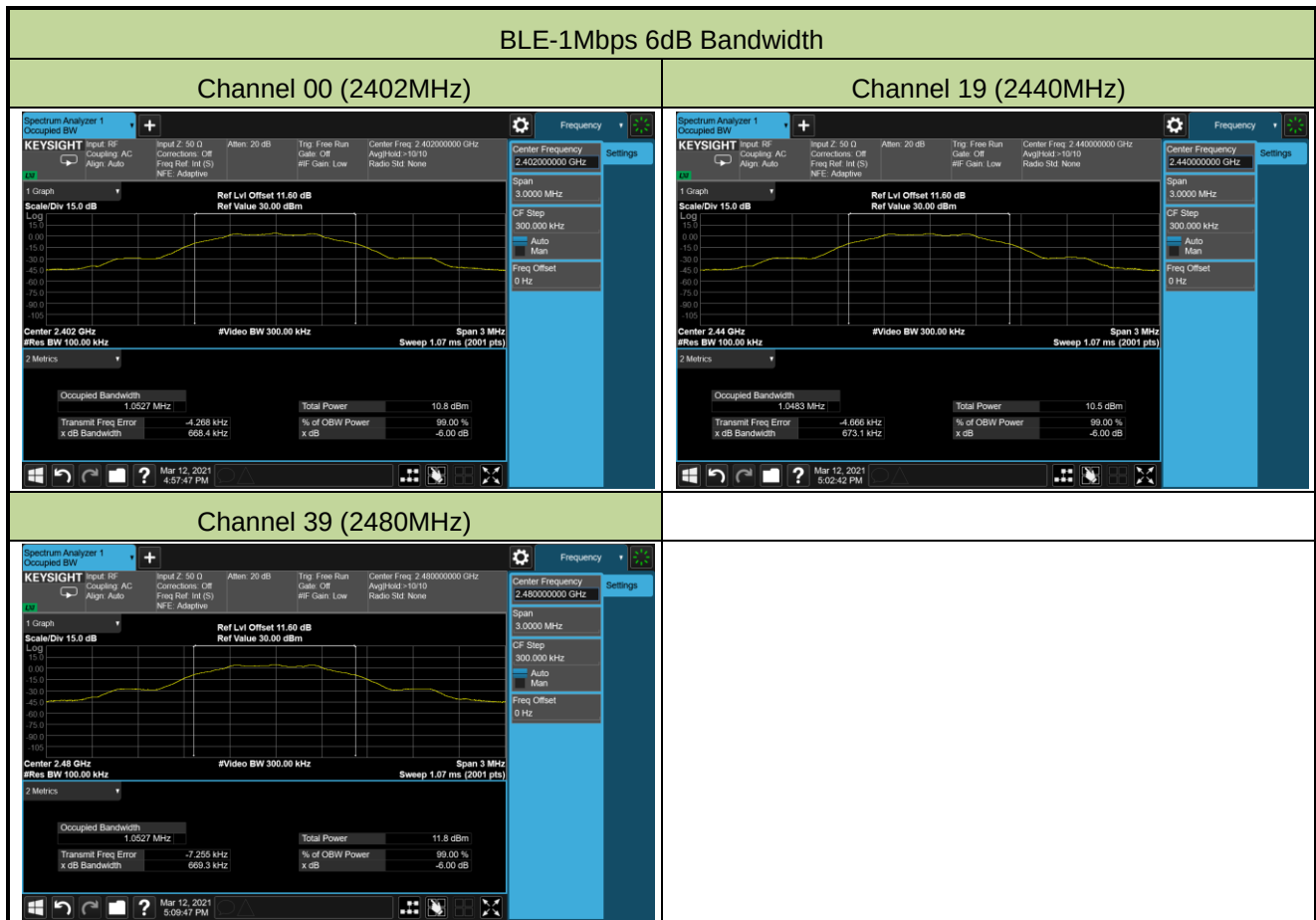
Test Mode	Duty Cycle
BLE-1Mbps	62.41%
BLE-2Mbps	32.59%
Duty Cycle (T = Transmission Duration)	
BLE- 1Mbps (T = 389.5us)	BLE- 2Mbps (T = 203.9us)

A.2 6dB Bandwidth Test Result

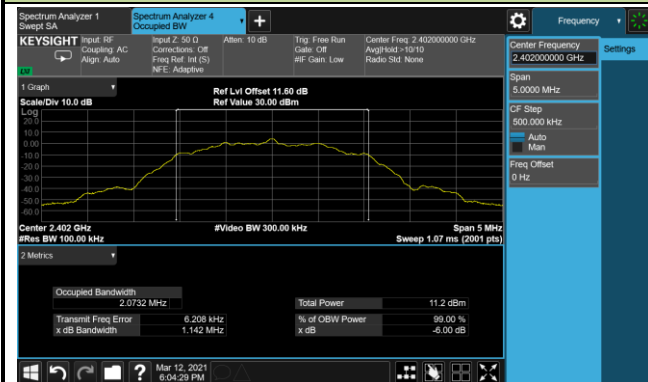
Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/03/12		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	668.4	≥ 0.5
BLE	1Mbps	19	2440	673.1	≥ 0.5
BLE	1Mbps	39	2480	669.3	≥ 0.5
BLE	2Mbps	00	2402	1142.0	≥ 0.5
BLE	2Mbps	19	2440	1149.0	≥ 0.5
BLE	2Mbps	39	2480	1147.0	≥ 0.5

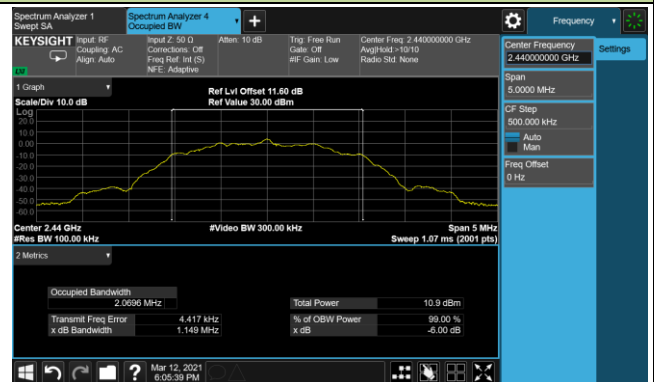


BLE-2Mbps 6dB Bandwidth

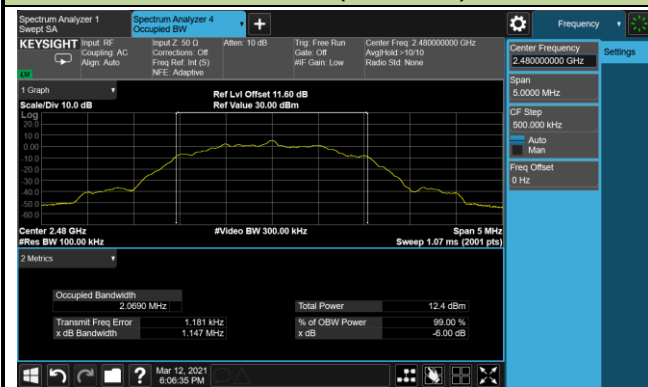
Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.3 Output Power Test Result

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/03/11		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	5.37	≤ 30.00	Pass
BLE	1Mbps	19	2440	5.19	≤ 30.00	Pass
BLE	1Mbps	39	2480	6.03	≤ 30.00	Pass
BLE	2Mbps	00	2402	5.62	≤ 30.00	Pass
BLE	2Mbps	19	2440	5.56	≤ 30.00	Pass
BLE	2Mbps	39	2480	6.33	≤ 30.00	Pass

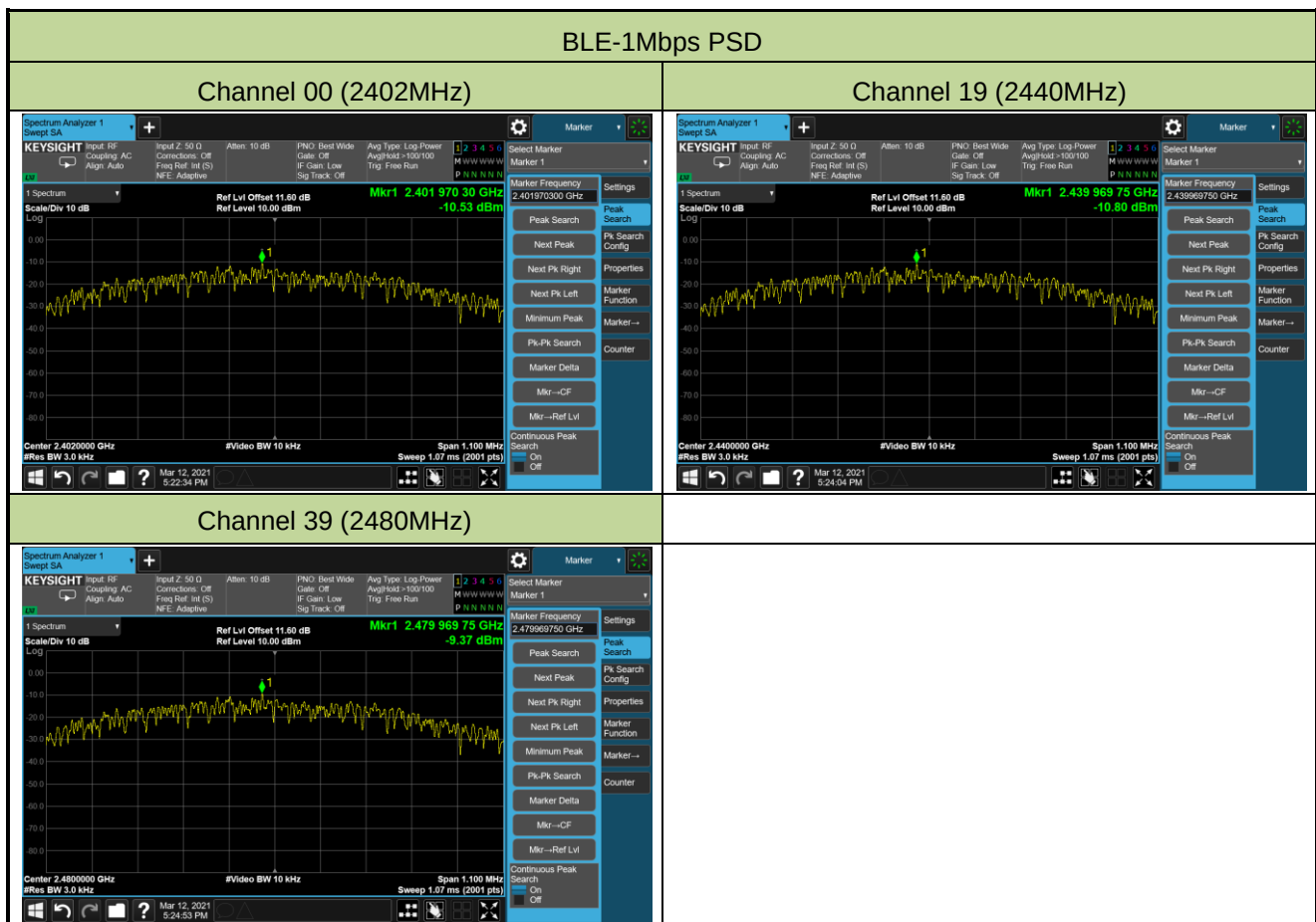
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	3.88	≤ 30.00	Pass
BLE	1Mbps	19	2440	3.65	≤ 30.00	Pass
BLE	1Mbps	39	2480	4.89	≤ 30.00	Pass
BLE	2Mbps	00	2402	3.86	≤ 30.00	Pass
BLE	2Mbps	19	2440	3.64	≤ 30.00	Pass
BLE	2Mbps	39	2480	4.88	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

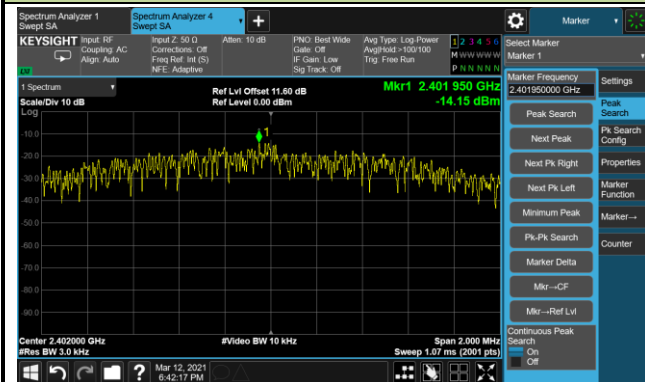
Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/03/12		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-10.53	≤ 8.00	Pass
BLE	1Mbps	19	2440	-10.80	≤ 8.00	Pass
BLE	1Mbps	39	2480	-9.37	≤ 8.00	Pass
BLE	2Mbps	00	2402	-14.15	≤ 8.00	Pass
BLE	2Mbps	19	2440	-14.43	≤ 8.00	Pass
BLE	2Mbps	39	2480	-12.98	≤ 8.00	Pass

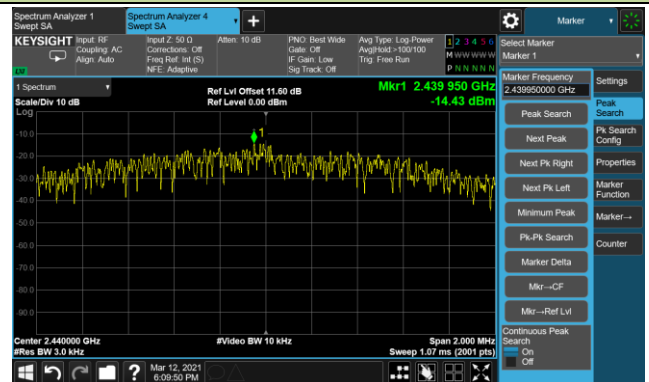


BLE-2Mbps PSD

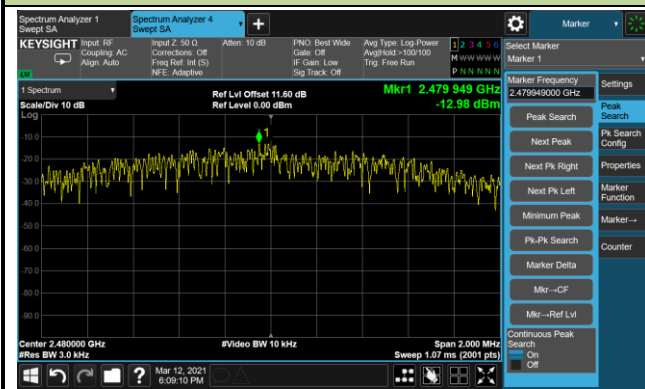
Channel 00 (2402MHz)



Channel 19 (2440MHz)



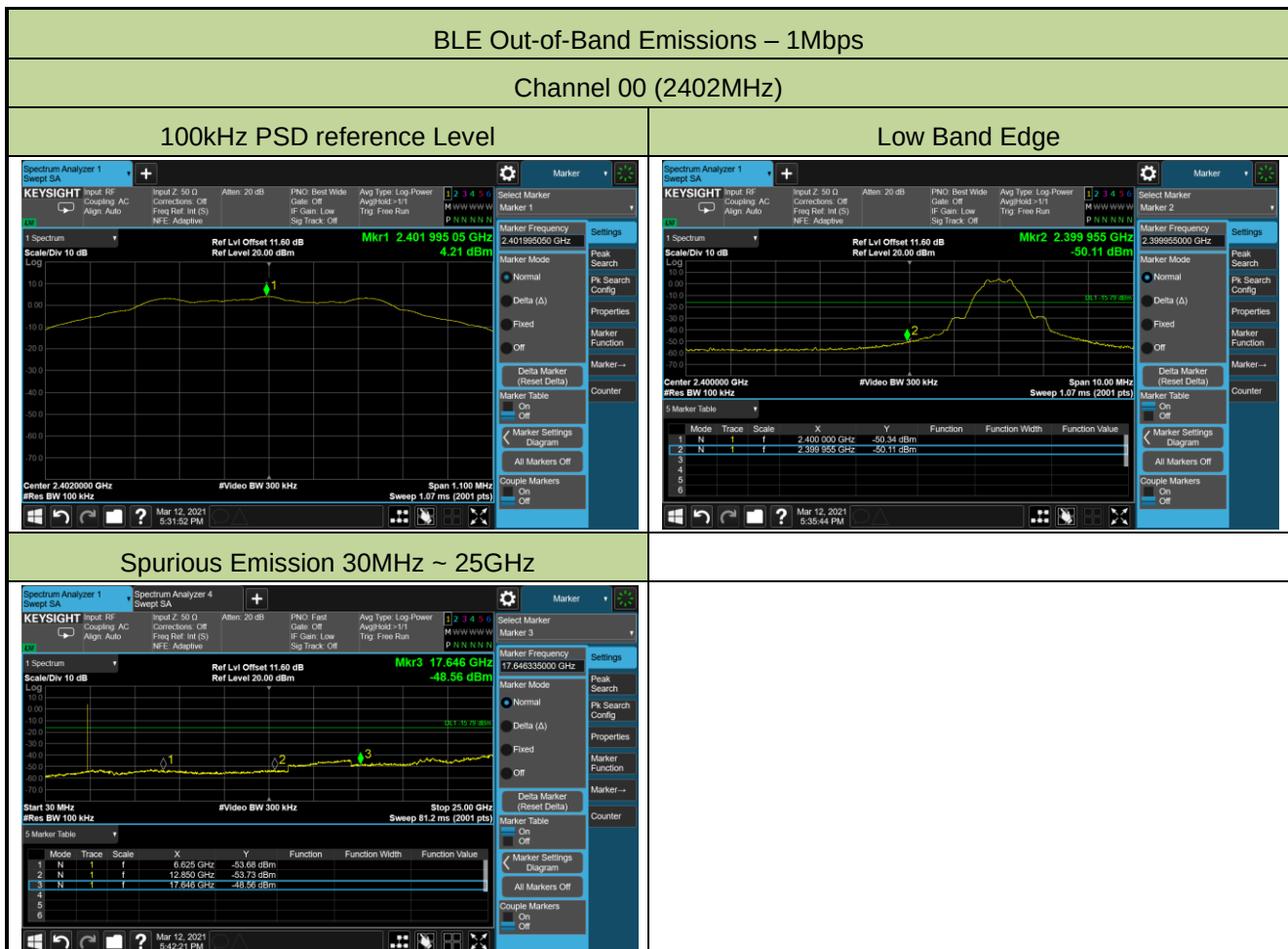
Channel 39 (2480MHz)



A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

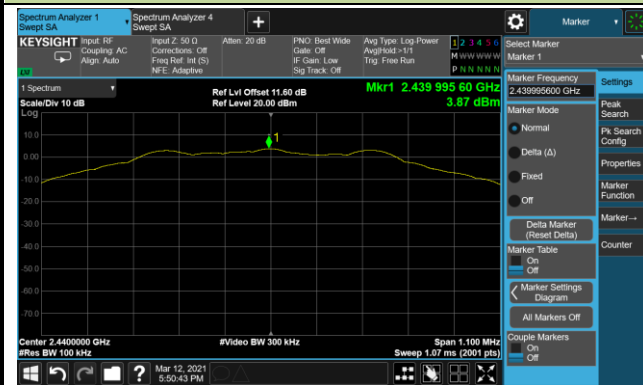
Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/03/12		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

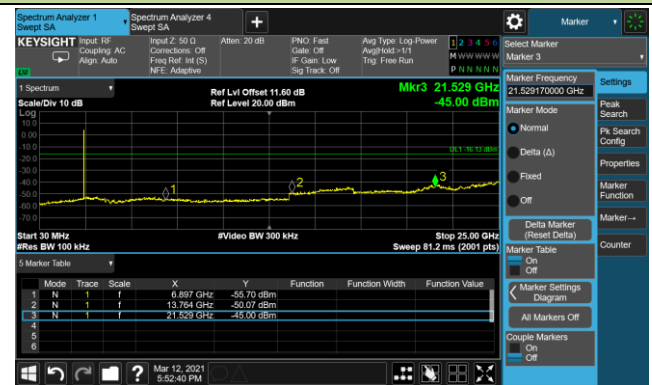


Channel 19 (2440MHz)

100kHz PSD reference Level

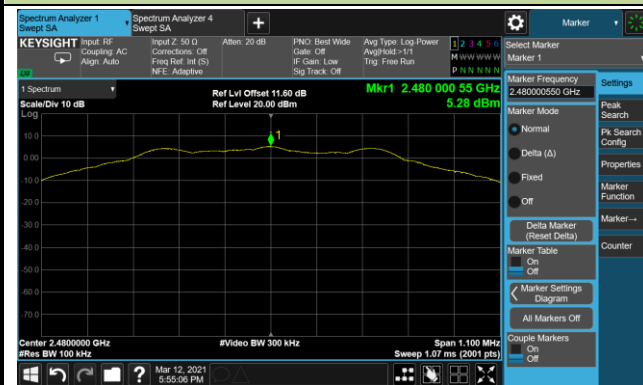


Spurious Emission 30MHz ~ 25GHz

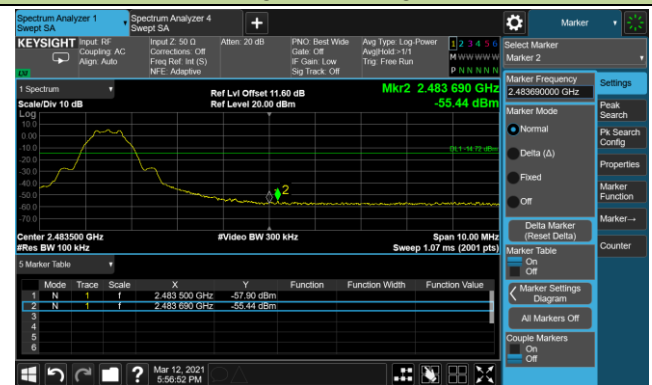


Channel 39 (2480MHz)

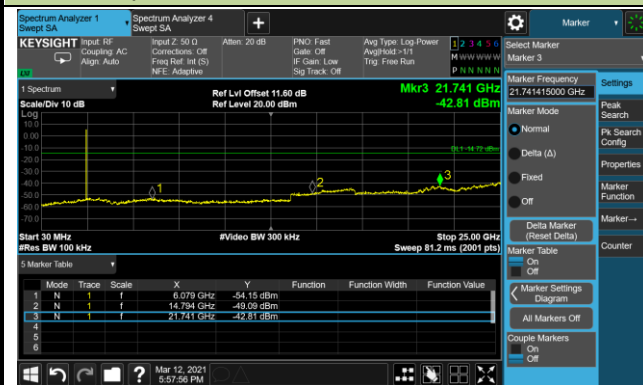
100kHz PSD reference Level



High Band Edge



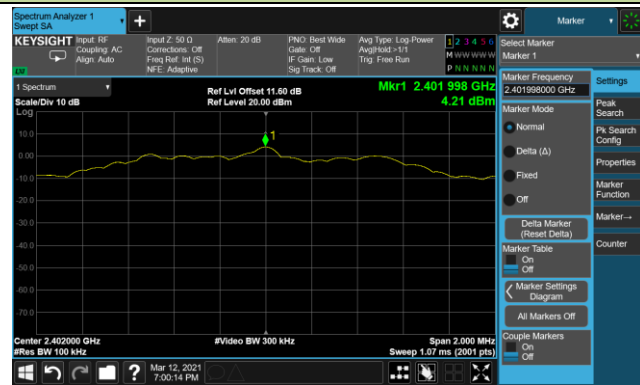
Spurious Emission 30MHz ~ 25GHz



BLE Out-of-Band Emissions – 2Mbps

Channel 00 (2402MHz)

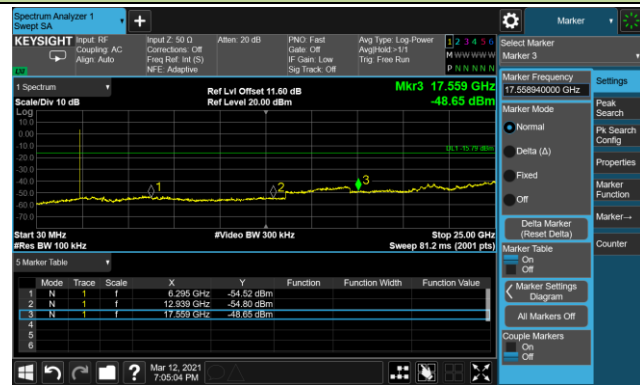
100kHz PSD reference Level



Low Band Edge

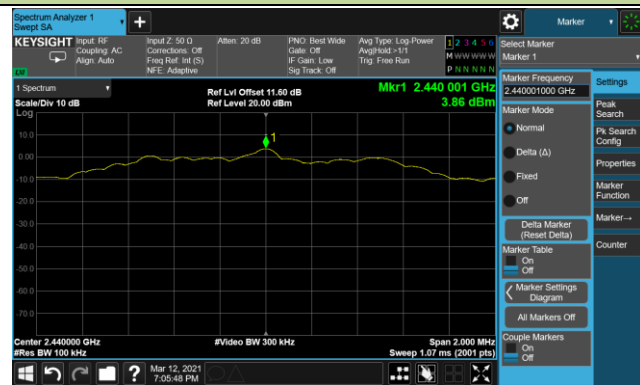


Spurious Emission 30MHz ~ 25GHz

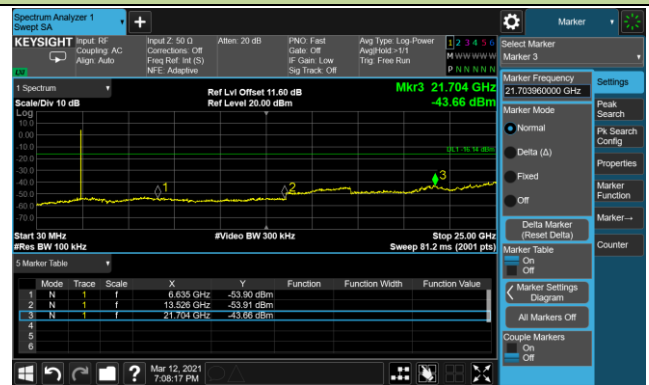


Channel 19 (2440MHz)

100kHz PSD reference Level



Spurious Emission 30MHz ~ 25GHz



Channel 39 (2480MHz)

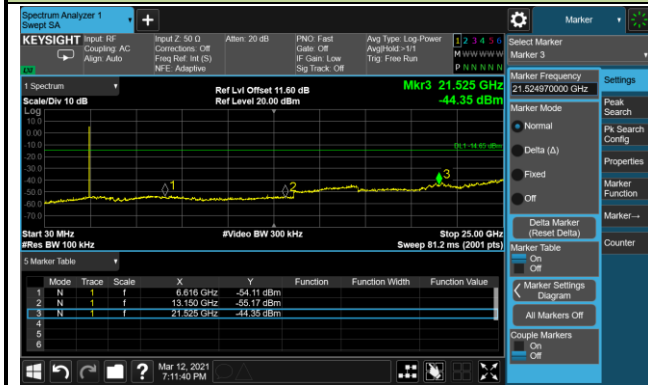
100kHz PSD reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

Test Site	NS-AC1	Test Engineer	Dillon Diao
Test Date	2022/01/07	Test Mode:	BLE-1Mbps
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	3983.5	38.1	-1.8	36.3	74.0	-37.7	Peak	Horizontal
	4553.0	37.9	1.0	38.9	74.0	-35.1	Peak	Horizontal
	7477.0	35.0	9.0	44.0	74.0	-30.0	Peak	Horizontal
	4017.5	37.7	-1.9	35.8	74.0	-38.2	Peak	Vertical
	5029.0	36.1	2.2	38.3	74.0	-35.7	Peak	Vertical
	7732.0	35.2	8.7	43.9	74.0	-30.1	Peak	Vertical
19	4238.5	36.9	-0.2	36.7	74.0	-37.3	Peak	Horizontal
	4850.5	36.0	1.5	37.5	74.0	-36.5	Peak	Horizontal
	7545.0	34.9	8.9	43.8	74.0	-30.2	Peak	Horizontal
	3992.0	39.8	-1.8	38.0	74.0	-36.0	Peak	Vertical
	4578.5	37.2	1.2	38.4	74.0	-35.6	Peak	Vertical
	7443.0	33.3	9.4	42.7	74.0	-31.3	Peak	Vertical
39	3949.5	38.3	-1.8	36.5	74.0	-37.5	Peak	Horizontal
	5012.0	36.7	2.3	39.0	74.0	-35.0	Peak	Horizontal
	7519.5	33.3	9.3	42.6	74.0	-31.4	Peak	Horizontal
	3966.5	38.0	-1.7	36.3	74.0	-37.7	Peak	Vertical
	4918.5	36.1	1.4	37.5	74.0	-36.5	Peak	Vertical
	7443.0	33.9	9.4	43.3	74.0	-30.7	Peak	Vertical

Note: 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	NS-AC1	Test Engineer	Dillon Diao
Test Date	2022/01/07	Test Mode:	BLE-2Mbps
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.		

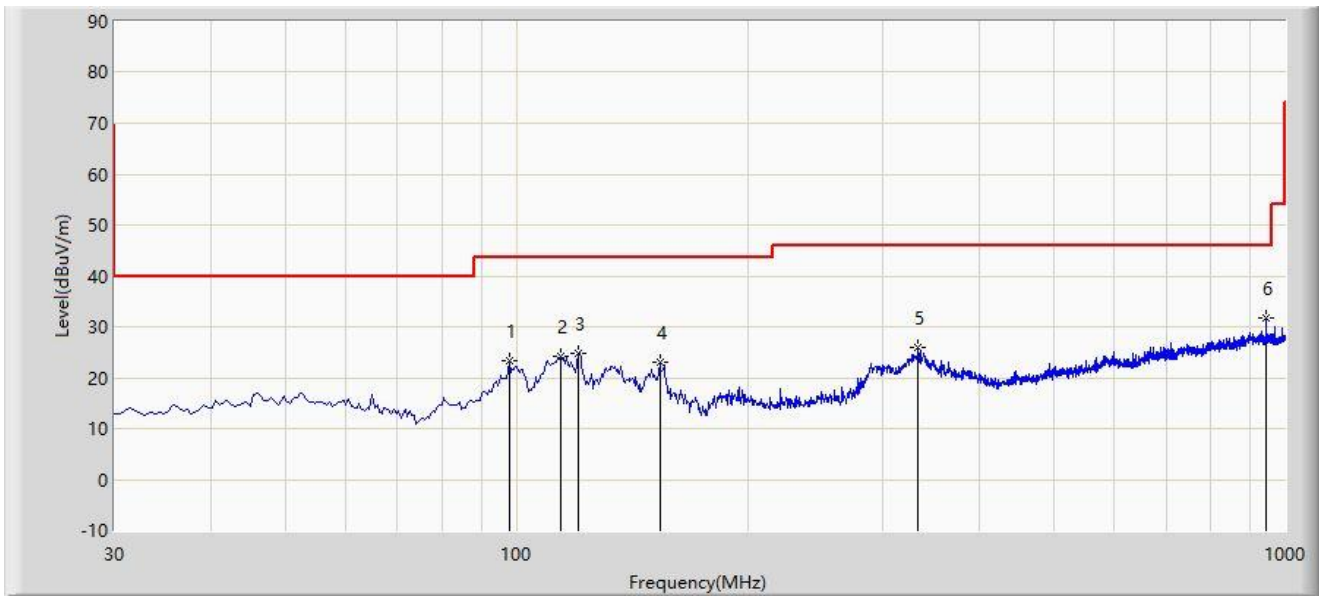
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4000.5	37.8	-1.8	36.0	74.0	-38.0	Peak	Horizontal
	4629.5	36.4	1.4	37.8	74.0	-36.2	Peak	Horizontal
	7443.0	33.6	9.4	43.0	74.0	-31.0	Peak	Horizontal
	4102.5	37.2	-1.3	35.9	74.0	-38.1	Peak	Vertical
	4842.0	35.8	1.5	37.3	74.0	-36.7	Peak	Vertical
	7443.0	33.9	9.4	43.3	74.0	-30.7	Peak	Vertical
19	4332.0	36.8	-0.3	36.5	74.0	-37.5	Peak	Horizontal
	4842.0	35.6	1.5	37.1	74.0	-36.9	Peak	Horizontal
	7528.0	33.8	9.2	43.0	74.0	-31.0	Peak	Horizontal
	4043.0	37.6	-1.6	36.0	74.0	-38.0	Peak	Vertical
	5054.5	38.1	2.0	40.1	74.0	-33.9	Peak	Vertical
	7570.5	33.4	8.9	42.3	74.0	-31.7	Peak	Vertical
39	3949.5	37.7	-1.8	35.9	74.0	-38.1	Peak	Horizontal
	4578.5	37.0	1.2	38.2	74.0	-35.8	Peak	Horizontal
	7400.5	34.8	9.3	44.1	74.0	-29.9	Peak	Horizontal
	4179.0	38.4	-0.7	37.7	74.0	-36.3	Peak	Vertical
	4604.0	37.2	1.5	38.7	74.0	-35.3	Peak	Vertical
	7434.5	33.2	9.4	42.6	74.0	-31.4	Peak	Vertical

Note: 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 Result of Radiated Emission below 1GHz:

Site: NS-AC1	Time: 2021/12/30 - 10:28
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE-1M at channel 2440MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			97.900	23.349	8.367	-20.151	43.500	14.982	PK
2			114.390	24.336	10.215	-19.164	43.500	14.121	PK
3			120.210	24.665	11.450	-18.835	43.500	13.215	PK
4			153.675	23.124	11.284	-20.376	43.500	11.840	PK
5			332.640	25.830	8.006	-20.170	46.000	17.824	PK
6		*	945.680	31.724	3.935	-14.276	46.000	27.789	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

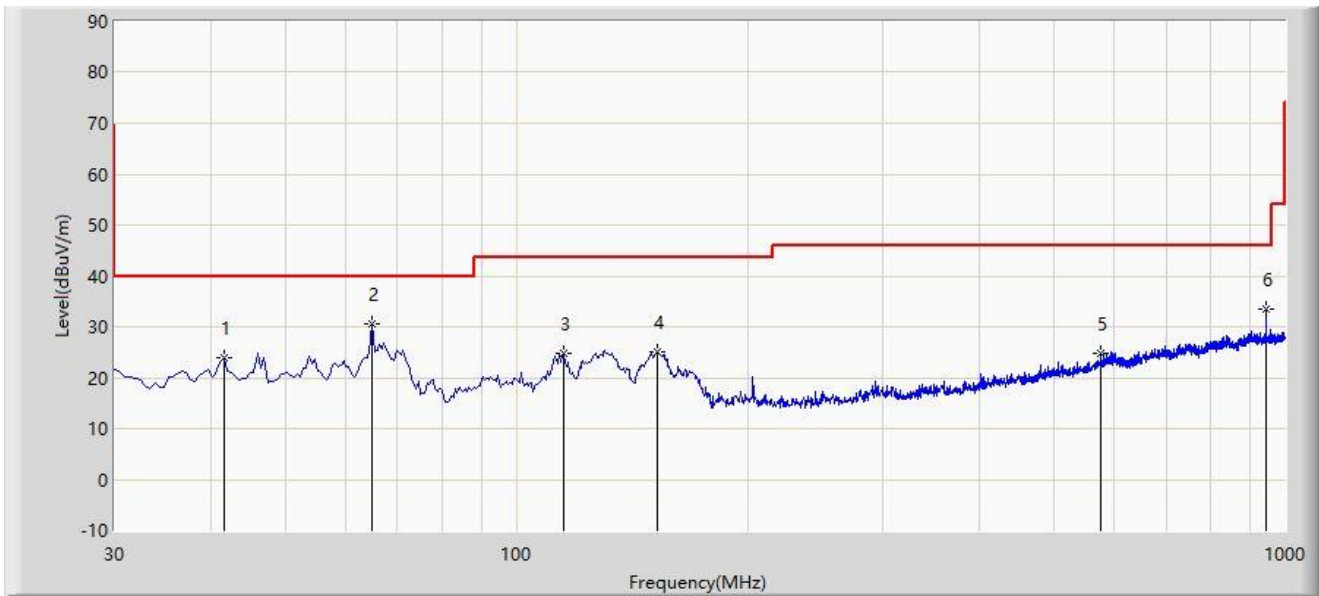
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: NS-AC1	Time: 2021/12/30 - 10:31
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE-1M at channel 2440MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			41.640	24.049	7.350	-15.951	40.000	16.698	PK
2		*	64.920	30.477	15.789	-9.523	40.000	14.688	PK
3			115.360	24.869	10.900	-18.631	43.500	13.970	PK
4			152.220	25.081	13.309	-18.419	43.500	11.772	PK
5			576.110	24.837	1.943	-21.163	46.000	22.894	PK
6			945.680	33.345	5.556	-12.655	46.000	27.789	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

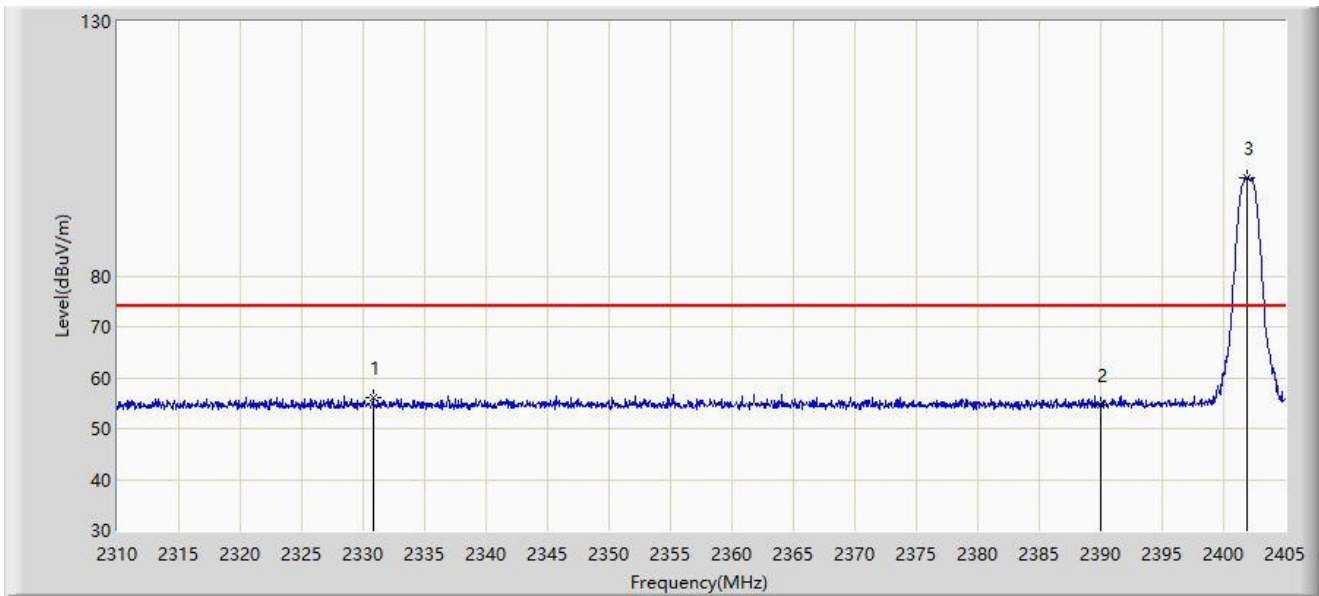
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site: NS-AC1	Time: 2022/01/05 - 13:11
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

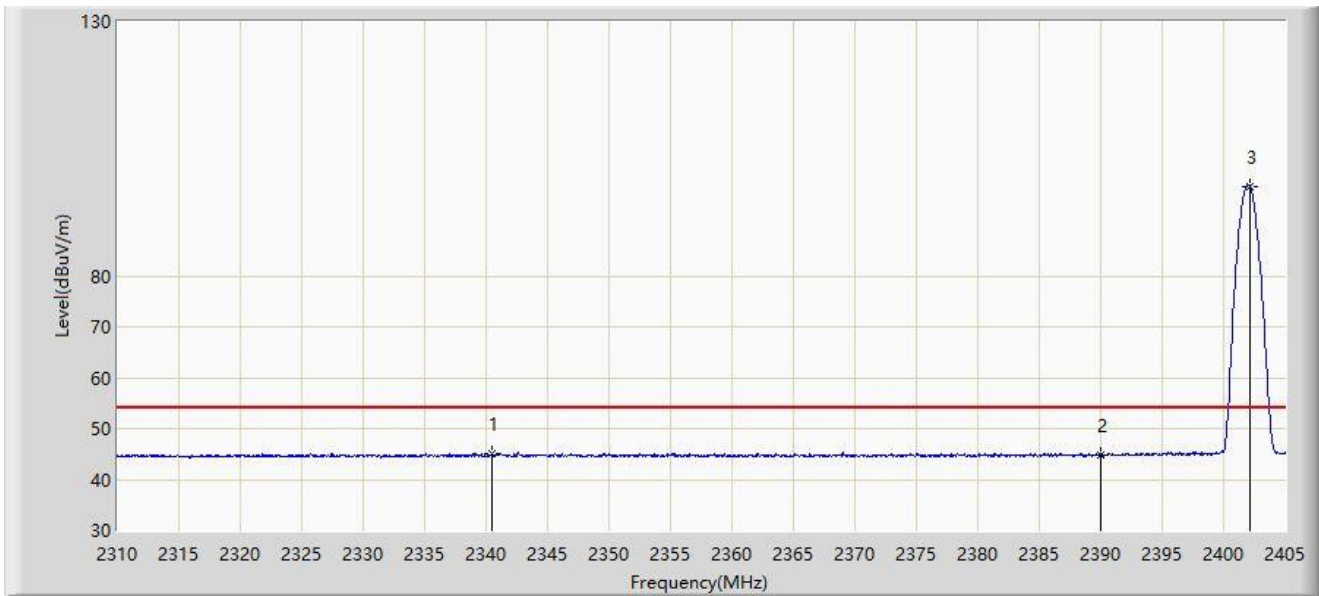


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2330.805	55.968	24.821	-18.032	74.000	31.148	PK
2			2390.000	54.732	23.829	-19.268	74.000	30.903	PK
3		*	2401.960	99.413	68.478	N/A	N/A	30.935	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:13
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

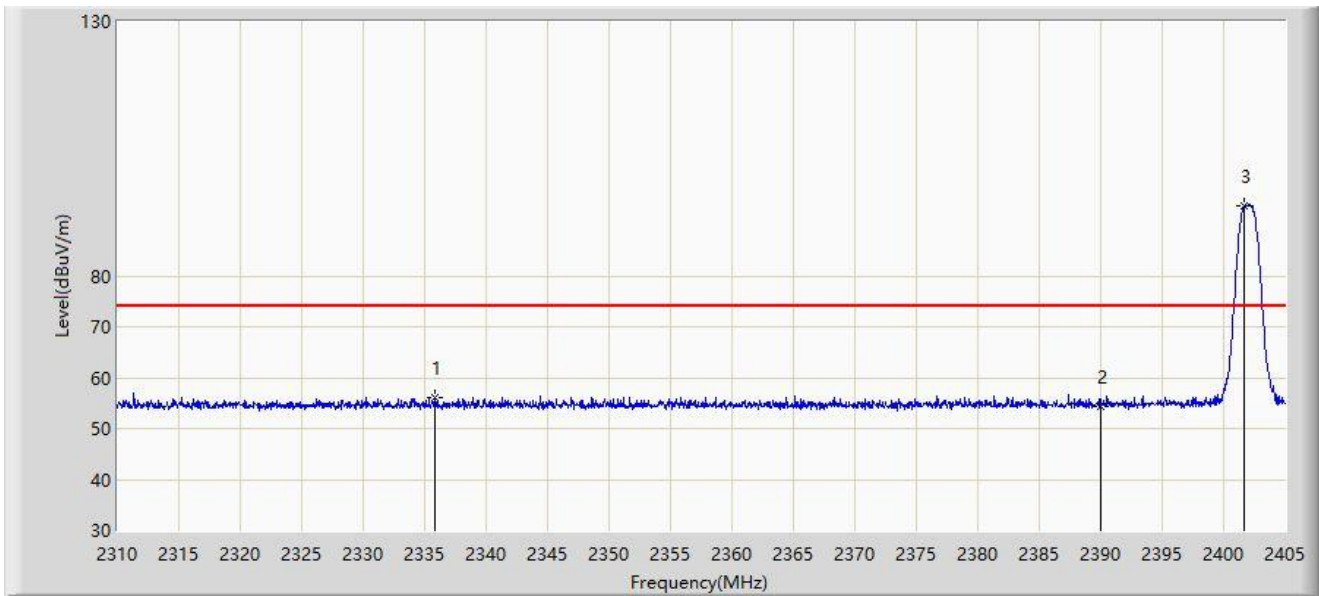


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2340.495	45.109	13.929	-8.891	54.000	31.180	AV
2			2390.000	44.909	14.006	-9.091	54.000	30.903	AV
3		*	2402.150	97.614	66.678	N/A	N/A	30.936	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:16
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

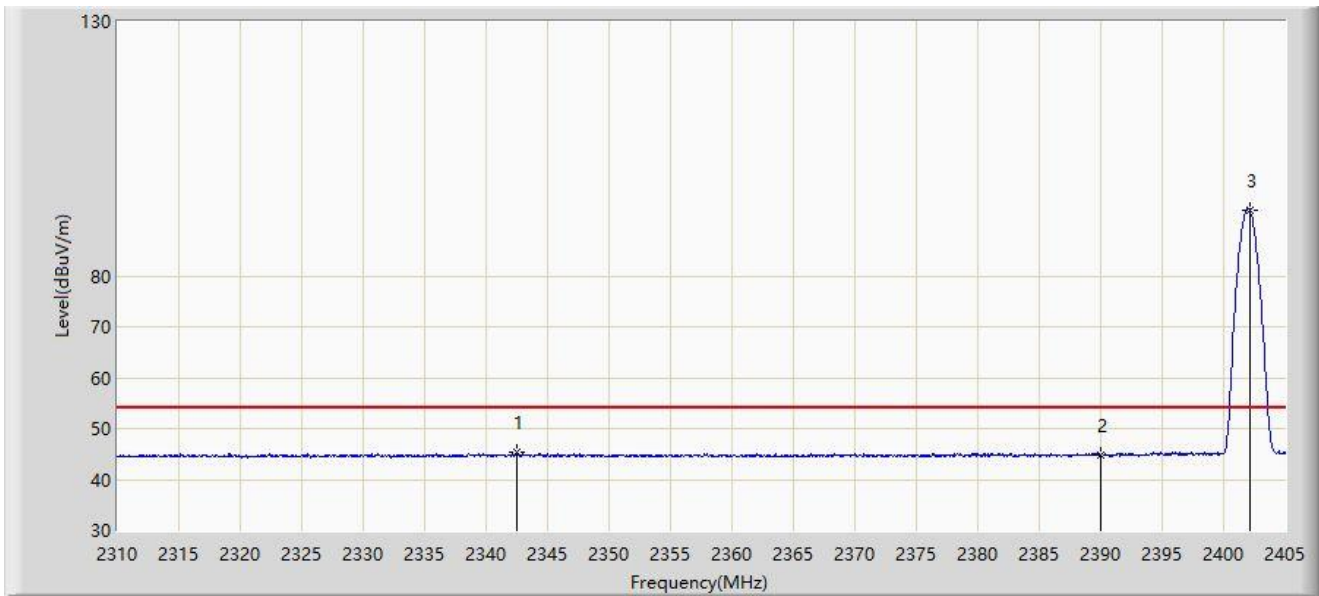


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2335.792	56.032	24.868	-17.968	74.000	31.165	PK
2			2390.000	54.269	23.366	-19.731	74.000	30.903	PK
3		*	2401.722	93.879	62.945	N/A	N/A	30.935	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:18
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

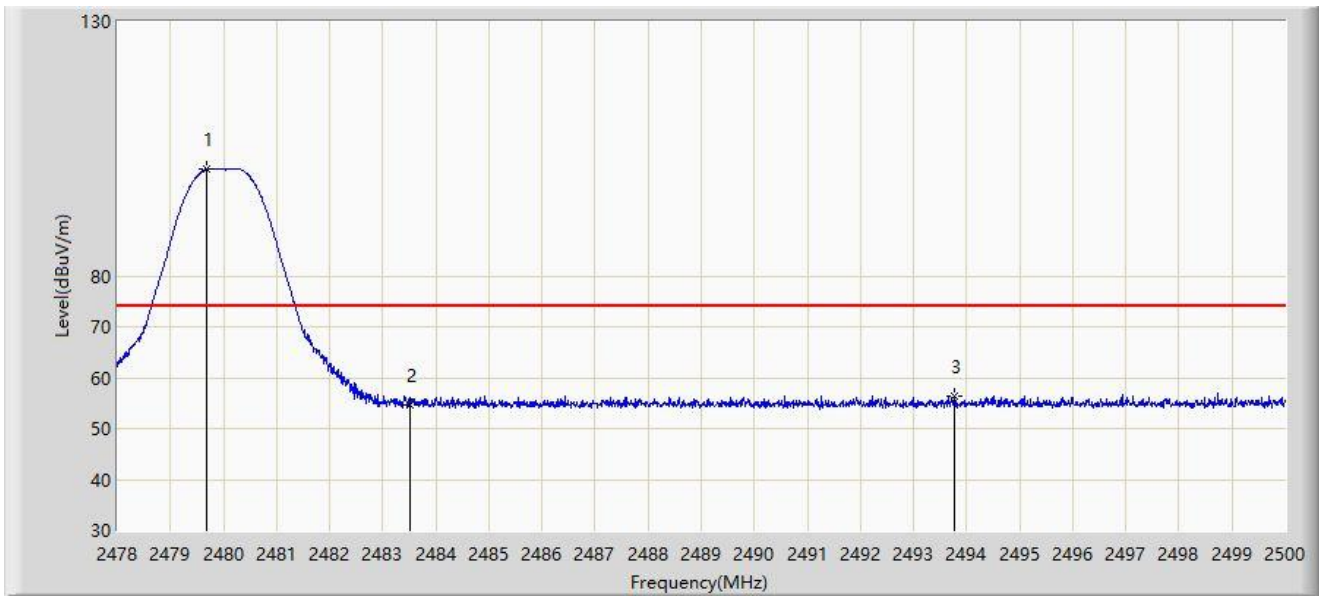


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2342.442	45.232	14.046	-8.768	54.000	31.186	AV
2			2390.000	44.759	13.856	-9.241	54.000	30.903	AV
3		*	2402.150	92.947	62.011	N/A	N/A	30.936	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:20
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

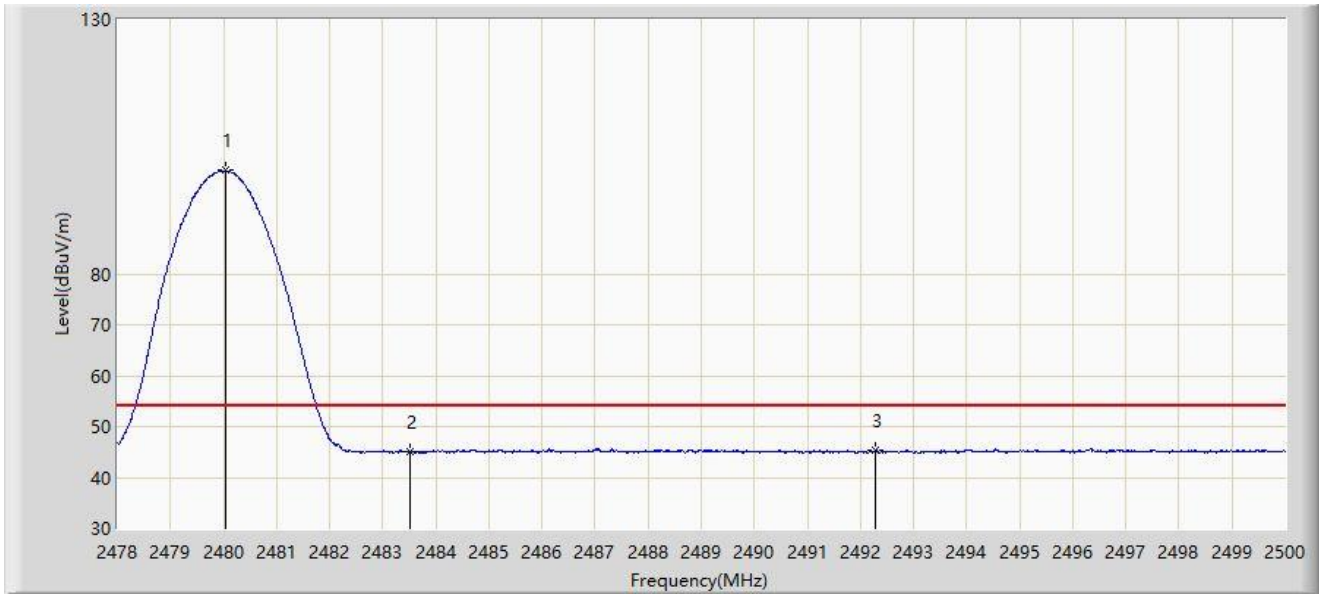


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.694	100.989	70.119	N/A	N/A	30.870	PK
2			2483.500	54.610	23.721	-19.390	74.000	30.889	PK
3			2493.774	56.413	25.473	-17.587	74.000	30.940	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:22
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

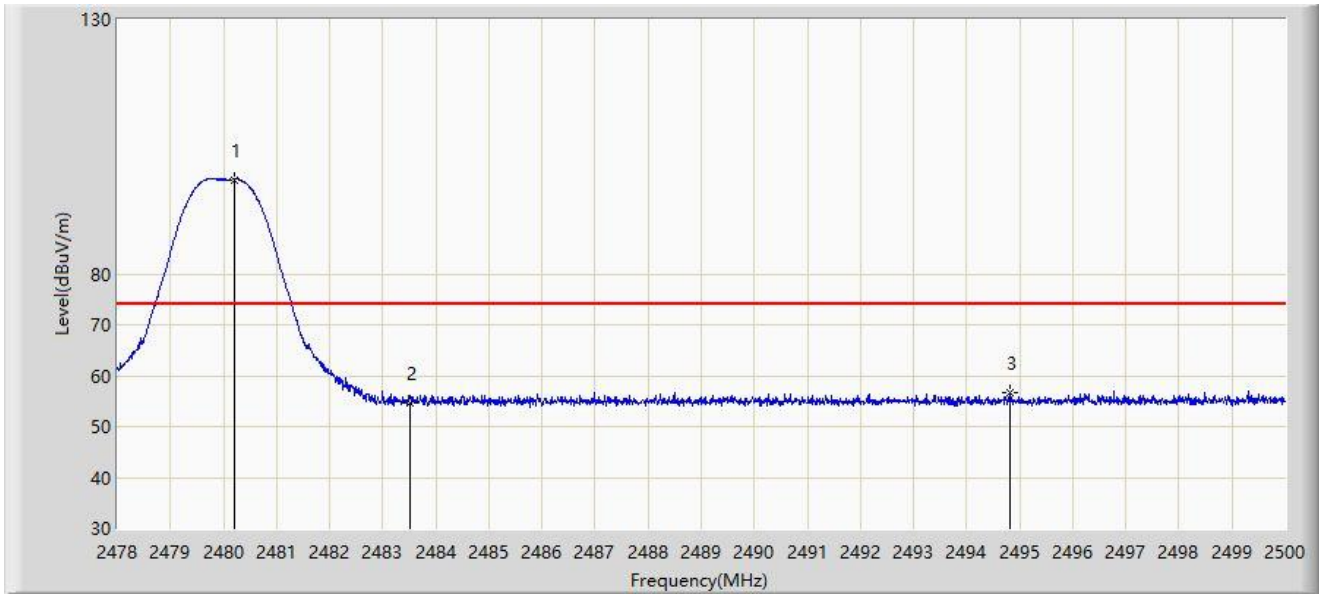


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.046	100.298	69.426	N/A	N/A	30.872	AV
2			2483.500	45.005	14.116	-8.995	54.000	30.889	AV
3			2492.278	45.436	14.503	-8.564	54.000	30.933	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:27
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

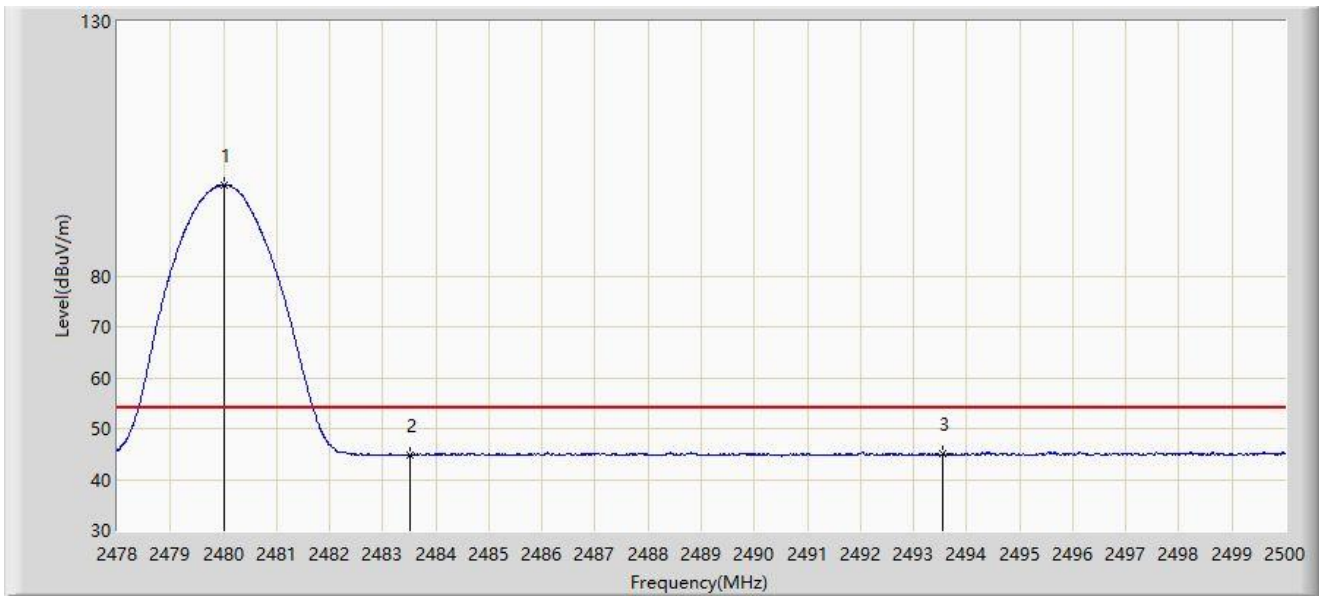


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.211	98.498	67.626	N/A	N/A	30.872	PK
2			2483.500	54.732	23.843	-19.268	74.000	30.889	PK
3			2494.808	56.570	25.625	-17.430	74.000	30.945	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:30
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

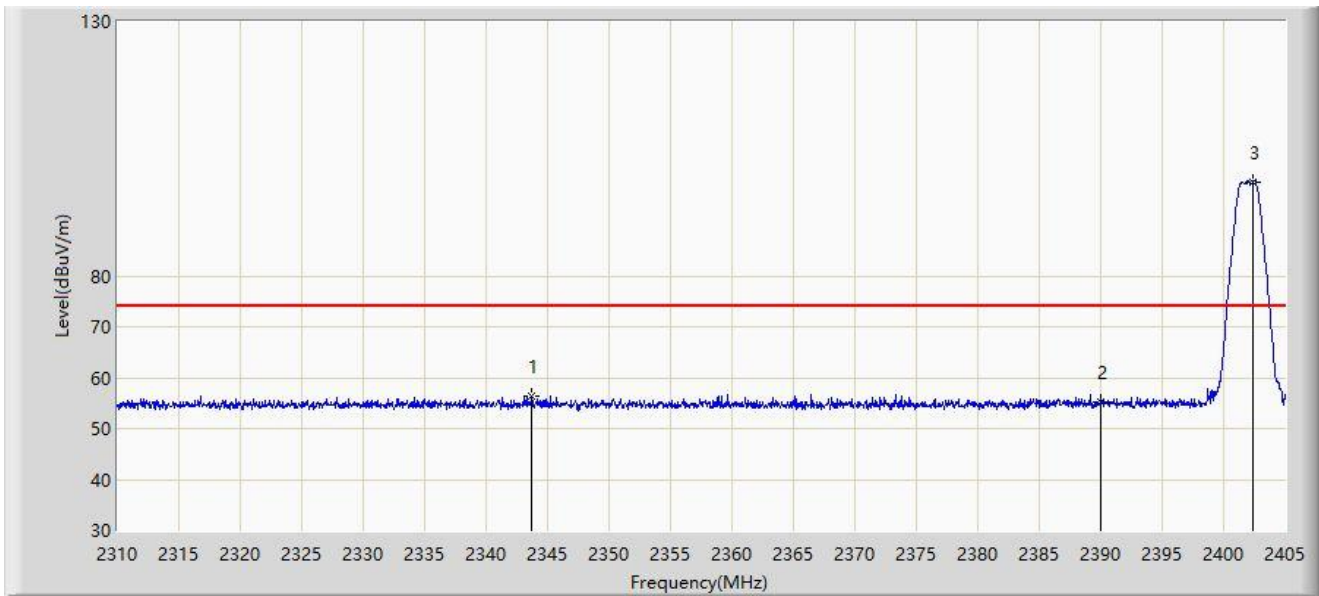


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.013	97.870	66.999	N/A	N/A	30.871	AV
2			2483.500	44.871	13.982	-9.129	54.000	30.889	AV
3			2493.554	45.177	14.238	-8.823	54.000	30.939	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:43
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

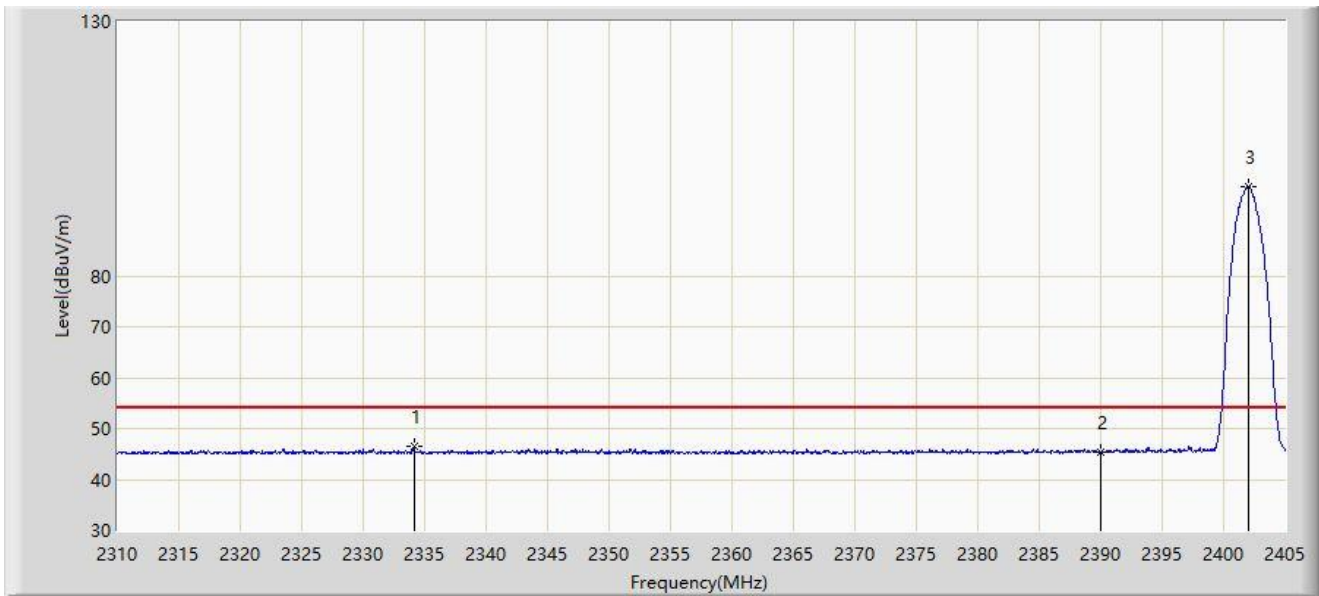


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2343.725	56.444	25.264	-17.556	74.000	31.180	PK
2			2390.000	55.331	24.428	-18.669	74.000	30.903	PK
3		*	2402.387	98.545	67.608	N/A	N/A	30.937	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:46
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

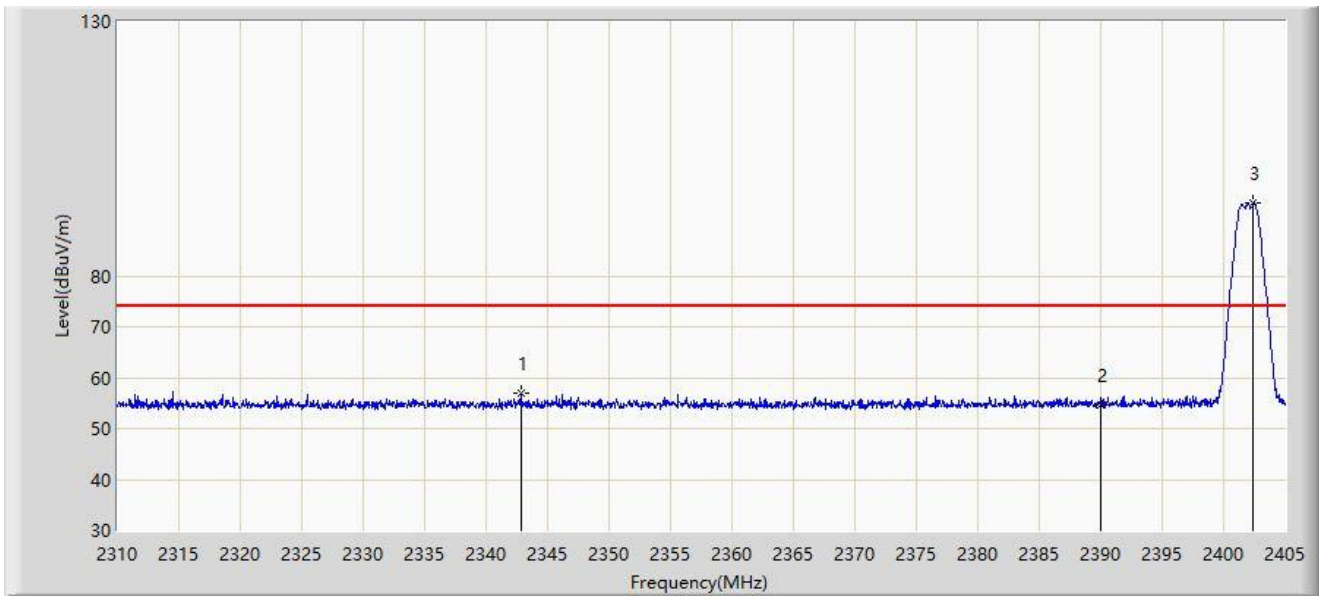


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2334.177	46.444	15.285	-7.556	54.000	31.159	AV
2			2390.000	45.273	14.370	-8.727	54.000	30.903	AV
3		*	2402.055	97.614	66.678	N/A	N/A	30.936	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:49
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

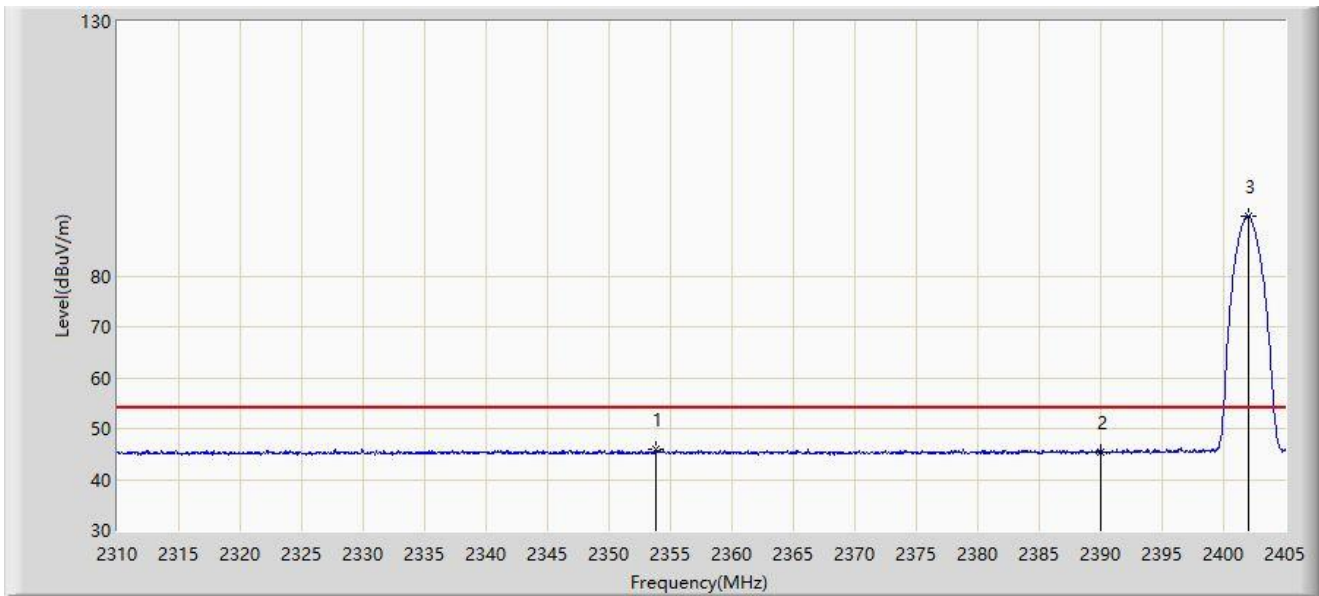


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2342.823	57.083	25.895	-16.917	74.000	31.188	PK
2			2390.000	54.648	23.745	-19.352	74.000	30.903	PK
3		*	2402.435	94.246	63.309	N/A	N/A	30.937	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:51
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

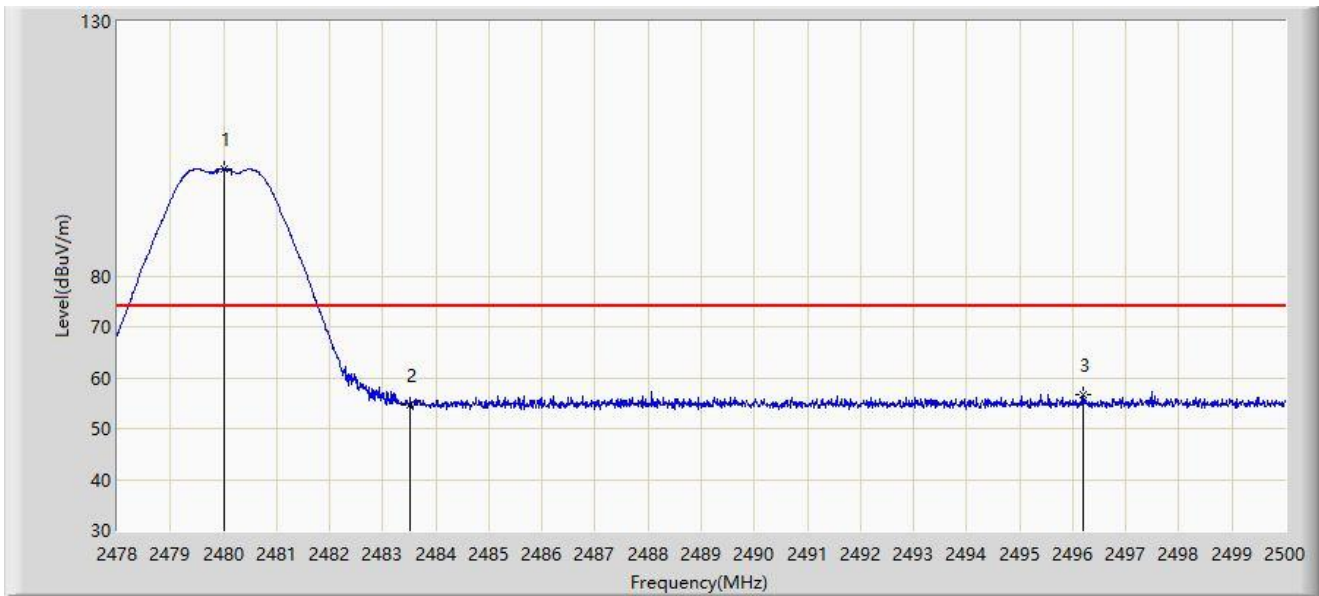


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2353.843	45.925	14.864	-8.075	54.000	31.060	AV
2			2390.000	45.389	14.486	-8.611	54.000	30.903	AV
3		*	2402.008	91.679	60.744	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:53
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	

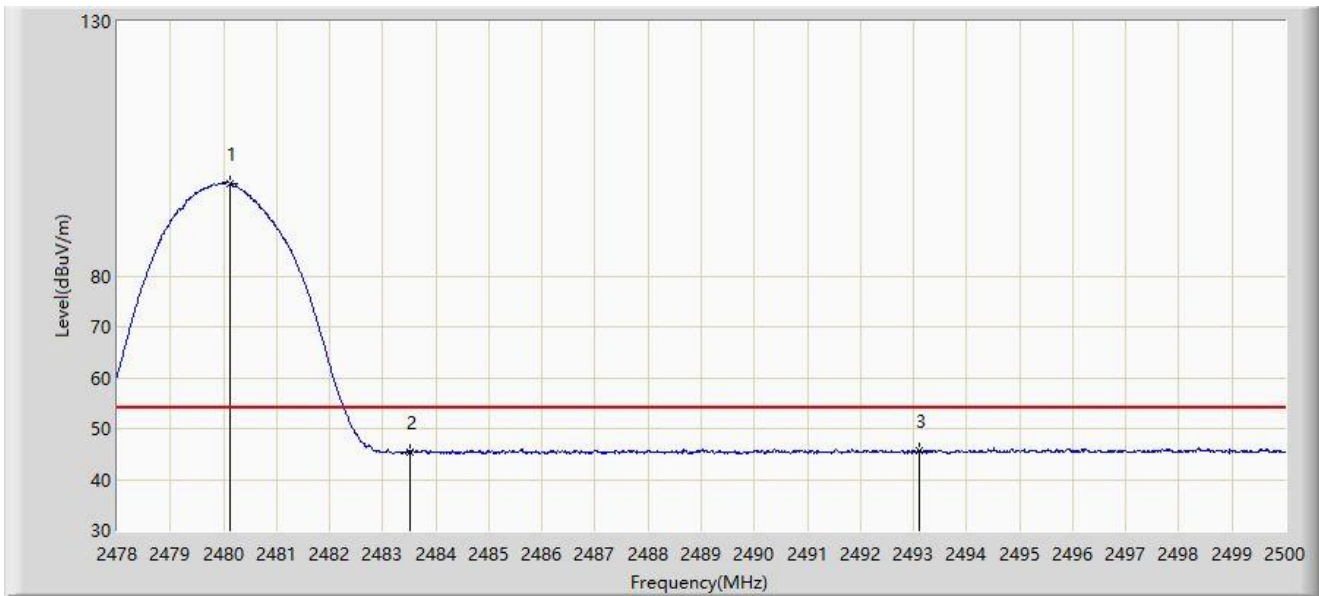


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	100.999	70.128	N/A	N/A	30.871	PK
2			2483.500	54.569	23.680	-19.431	74.000	30.889	PK
3			2496.205	56.580	25.629	-17.420	74.000	30.951	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:55
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	

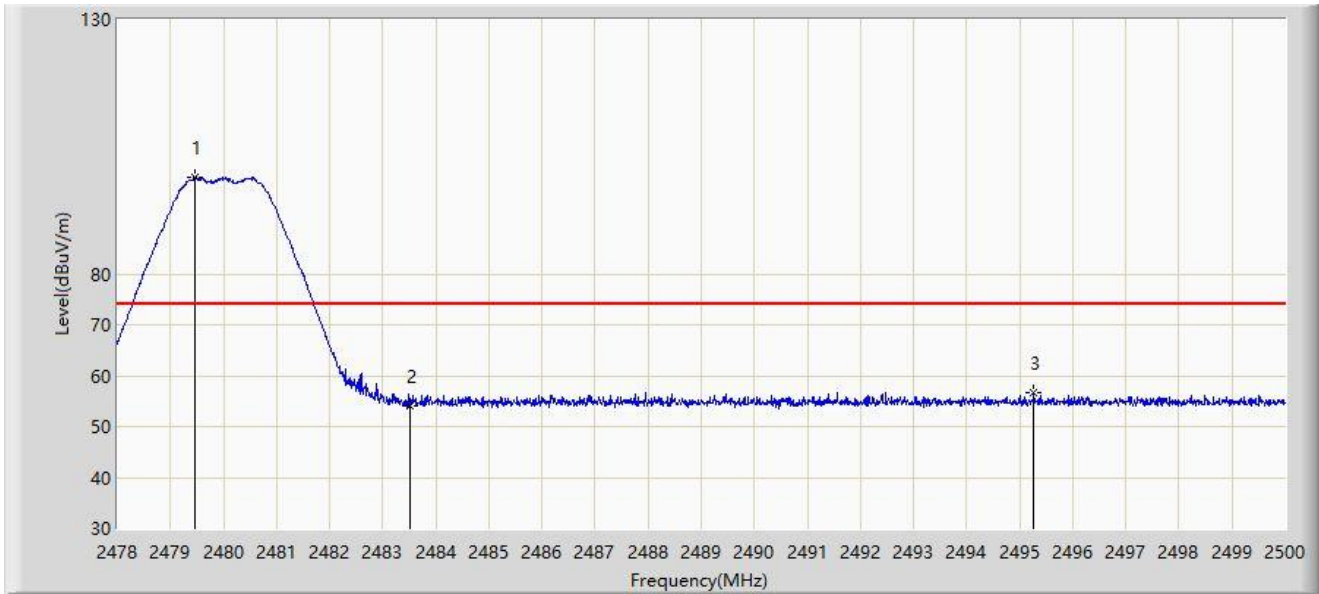


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.123	98.221	67.349	N/A	N/A	30.872	AV
2			2483.500	45.401	14.512	-8.599	54.000	30.889	AV
3			2493.114	45.786	14.849	-8.214	54.000	30.937	AV

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:57
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.463	98.939	68.070	N/A	N/A	30.869	PK
2			2483.500	54.089	23.200	-19.911	74.000	30.889	PK
3			2495.270	56.663	25.715	-17.337	74.000	30.948	PK

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

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

Site: NS-AC1	Time: 2022/01/05 - 13:58
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	



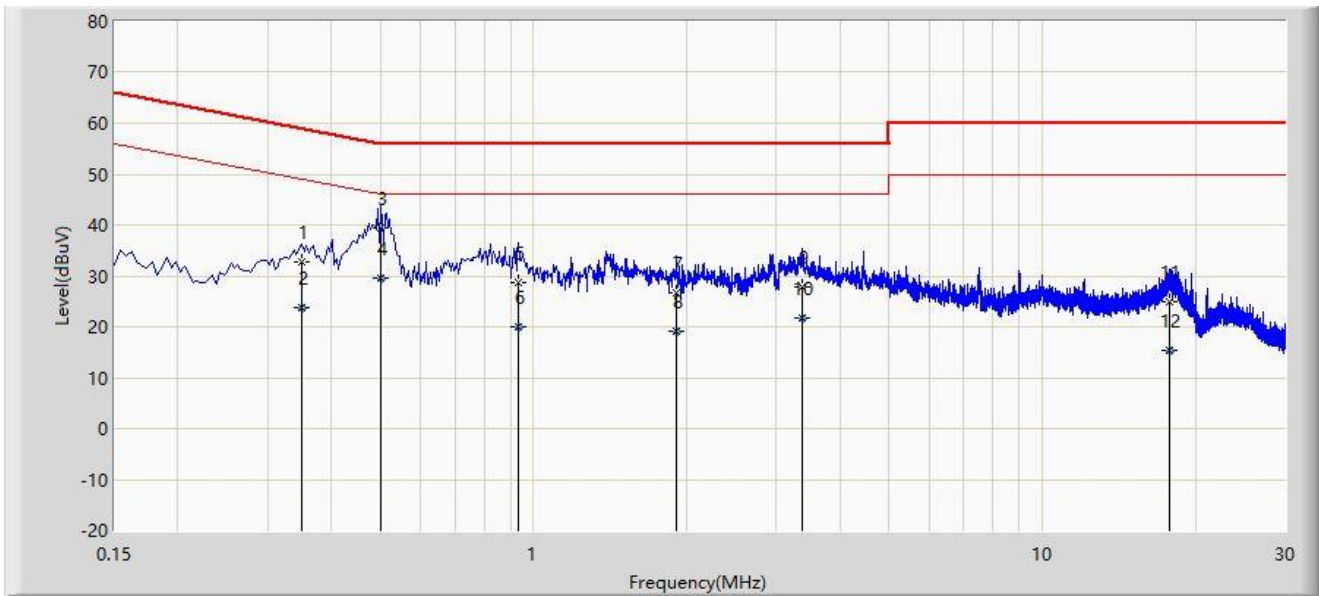
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.079	96.069	65.197	N/A	N/A	30.872	AV
2			2483.500	45.538	14.649	-8.462	54.000	30.889	AV
3			2491.915	46.029	15.098	-7.971	54.000	30.931	AV

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

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

A.8 AC Conducted Emissions Test Result

Site: NS-SR2	Time: 2021/12/31
Limit: FCC_Part15.207_CE_AC Power	Engineer: Summer Tang
Probe: ENV216_102493_150KHz~30MHz	Polarity: Line
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: Transmit by BLE-1M at channel 2402MHz	

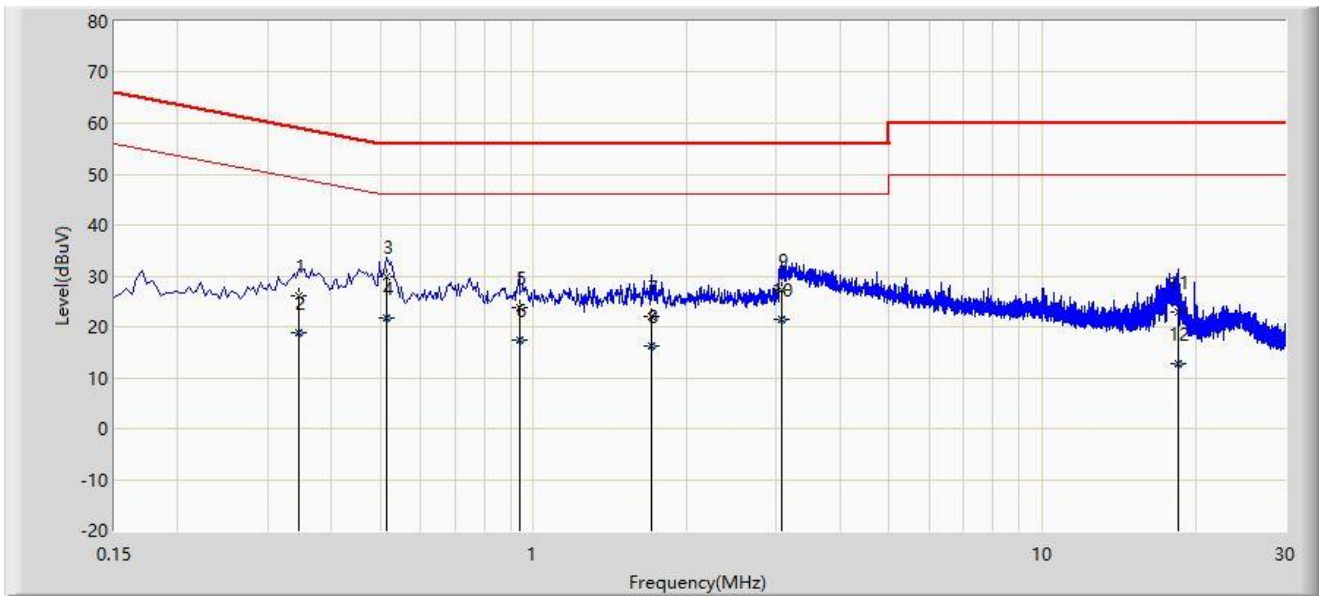


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.350	32.643	22.748	-26.319	58.962	9.895	QP
2			0.350	23.638	13.743	-25.324	48.962	9.895	AV
3			0.502	39.475	29.783	-16.525	56.000	9.692	QP
4		*	0.502	29.697	20.006	-16.303	46.000	9.692	AV
5			0.934	28.721	18.991	-27.279	56.000	9.730	QP
6			0.934	20.060	10.330	-25.940	46.000	9.730	AV
7			1.910	26.598	16.843	-29.402	56.000	9.755	QP
8			1.910	19.035	9.280	-26.965	46.000	9.755	AV
9			3.382	27.861	18.048	-28.139	56.000	9.813	QP
10			3.382	21.603	11.790	-24.397	46.000	9.813	AV
11			17.746	24.863	14.758	-35.137	60.000	10.104	QP
12			17.746	15.503	5.398	-34.497	50.000	10.104	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: NS-SR2	Time: 2021/12/31
Limit: FCC_Part15.207_CE_AC Power	Engineer: Summer Tang
Probe: ENV216_102493_150KHz~30MHz	Polarity: Neutral
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: Transmit by BLE-1M at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.346	26.148	16.332	-32.910	59.058	9.816	QP
2			0.346	18.951	9.135	-30.107	49.058	9.816	AV
3			0.514	29.862	20.224	-26.138	56.000	9.638	QP
4		*	0.514	21.707	12.069	-24.293	46.000	9.638	AV
5			0.938	23.847	14.176	-32.153	56.000	9.671	QP
6			0.938	17.321	7.650	-28.679	46.000	9.671	AV
7			1.710	22.153	12.464	-33.847	56.000	9.689	QP
8			1.710	16.309	6.620	-29.691	46.000	9.689	AV
9			3.066	27.363	17.622	-28.637	56.000	9.742	QP
10			3.066	21.466	11.724	-24.534	46.000	9.742	AV
11			18.522	23.006	12.646	-36.994	60.000	10.360	QP
12			18.522	12.813	2.453	-37.187	50.000	10.360	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Appendix B - Test Setup Photograph

Refer to “2112RSU039-UT” file.

Appendix C - EUT Photograph

Refer to "2112RSU039-UE" file.

_____ The End _____