

FCC Part 15.247

TEST REPORT

For

DozyCozy Technology Co., Ltd.

15F-2, No.11, Section 2, Huannan Road, Pingzhen District, Taoyuan City, Taiwan 324

FCC ID: 2A6PCP10AA

Report Type:
Original Report

Product Name:
AirCozy Interactive Smart Pillow

Report Number : RXZ211115009RF04

Report Date : 2022-06-08

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Revision History

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	DozzyCozy Technology Co., Ltd.	
	15F-2, No.11, Section 2, Huannan Road, Pingzhen District, Taoyuan City, Taiwan 324	
Manufacturer	DozzyCozy Technology Co., Ltd.	
	15F-2, No.11, Section 2, Huannan Road, Pingzhen District, Taoyuan City, Taiwan 324	
Brand(Trade) Name	DozzyCozy , AirCozy	
Product (Equipment)	AirCozy Interactive Smart Pillow	
Main Model Name	AirCozy Premium_N_VA	
Series Model Name	AirCozy Premium_N_VA2	
Model Discrepancy	AirCozy Premium_N_VA	AirCozy Premium_N_VA2
	single pump	double pump
Frequency Range	BLE(1M): 2402 ~ 2480 MHz	
Transmit Power	BLE(1M) Mode : -2.75 dBm	
Modulation Technique	BLE(1M): GFSK	
Transmit Data Rate	BLE(1M): 1 Mbps	
Channel Separation	BLE(1M): 2 MHz	
Power Operation (Voltage Range)	☒ AC ☒ Adapter I/P: 100-240V ~ 50/60Hz 0.8A O/P: +12.0V  2.0A, 24.0W ☐ By AC Power Cord ☐ PoE	
	☐ DC Type ☐ Battery ☐ DC Power Supply: 3.3Vdc ☐ External from USB Cable ☐ External DC Adapter	
	☐ Host System	
Received Date	Dec 10, 2021	
Date of Test	Mar 15, 2022 ~ Jun 02, 2022	

*All measurement and test data in this report was gathered from production sample serial number: RXZ211115009-01 , RXZ211115009-02 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *DozzyCozy Technology Co., Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB 558074 D01 15.247 Meas Guidance v05r02

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory).

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 2.36 dB
RF output power, conducted		+/- 0.98 dB
Occupied Bandwidth		+/- 0.35 MHz
Unwanted Emissions, conducted		+/- 2.16 dBm
Emissions, radiated	30 MHz~1GHz	+/- 5.22 dB
	1 GHz~18 GHz	+/- 6.12 dB
	18 GHz~40 GHz	+/- 4.99 dB
Temperature		+/- 1.27 °C
Humidity		+/- 3.00 %

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	ATM Pressure (hPa)	Test Engineer
AC Line Conducted Emissions	2022-04-27~2022-06-02	25.5~26.2	49~51	1010	Boris Kao
Radiation Spurious Emissions	2022-03-15~2022-06-02	21.8~26.1	54~77	1010	Aaron Pan
Conducted Spurious Emissions	2022-04-08	25	55	1010	Aaron Pan
6 dB Emission Bandwidth	2022-04-08	25	55	1010	Aaron Pan
Maximum Output Power	2022-04-08	25	55	1010	Aaron Pan
100 kHz Bandwidth of Frequency Band Edge	2022-04-08	25	55	1010	Aaron Pan
Power Spectral Density	2022-04-08	25	55	1010	Aaron Pan

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

☒70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp.(New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

2 System Test Configuration

2.1 Description of Test Configuration

For BLE mode, there are totally 40 channels.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	--	--
2	2406	--	--
3	2408	37	2476
--	--	38	2478
19	2440	39	2480

For BLE Modes were tested with channel 0, 19 and 39.

The system was configured for testing in engineering mode, which was provided by manufacturer.

2.2 Equipment Modifications

No modification was made to the EUT.

2.3 EUT Exercise Software

The test software was used “FCC Assist 1.0.0.2”

Test Frequency		Low	Middle	High
Power Level Setting	BLE 1M	10	10	10

2.4 Support Equipment List and Details

Description	Manufacturer	Model Number	S/N
Adapter	DozyCozy	DSA-24PFS-12 FUS 120200	0521HB
SD Card	RAMBULL	128MB	N/A
NB	DELL	E6410	8N7PXN1
Fixture	Waveshare	FT232	N/A

2.5 External Cable List and Details

N/A

2.6 Test Mode

Pre-scan

AC Line Conducted Emissions and Radiated Spurious Emissions

Mode 1: AirCozy Premium_N_VA (Sample serial number: RXZ211115009-01)

Mode 2: AirCozy Premium_N_VA2 (Sample serial number: RXZ211115009-02)

Worst case is the Mode 1: AirCozy Premium_N_VA

Model 1: AirCozy Premium_N_VA for all test item.

Model 2: AirCozy Premium_N_VA2 test Below 1GHz Radiated Spurious Emissions and AC Line Conducted Emissions.

Transmitting simultaneously test

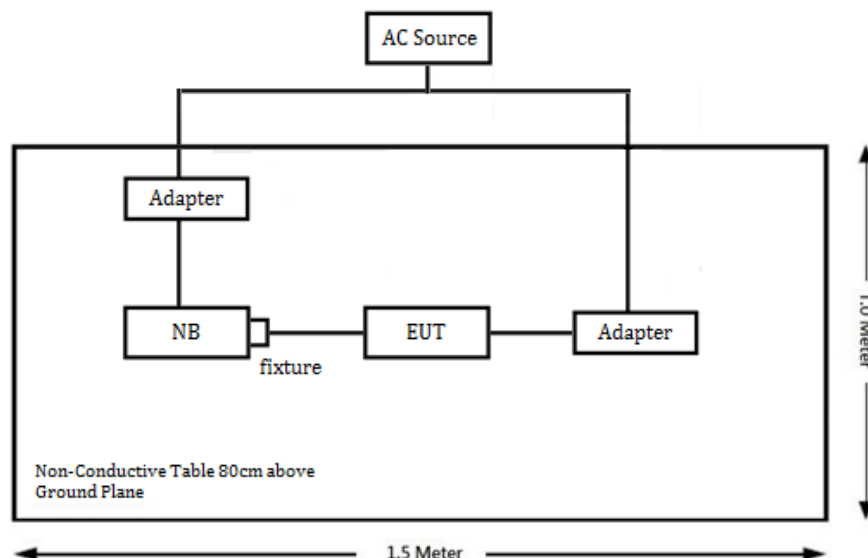
BLE Mode and BLE Mode (FCC ID: SH6MDBT42Q, Model: MDBT42Q-U)

2.7 Block Diagram of Test Setup

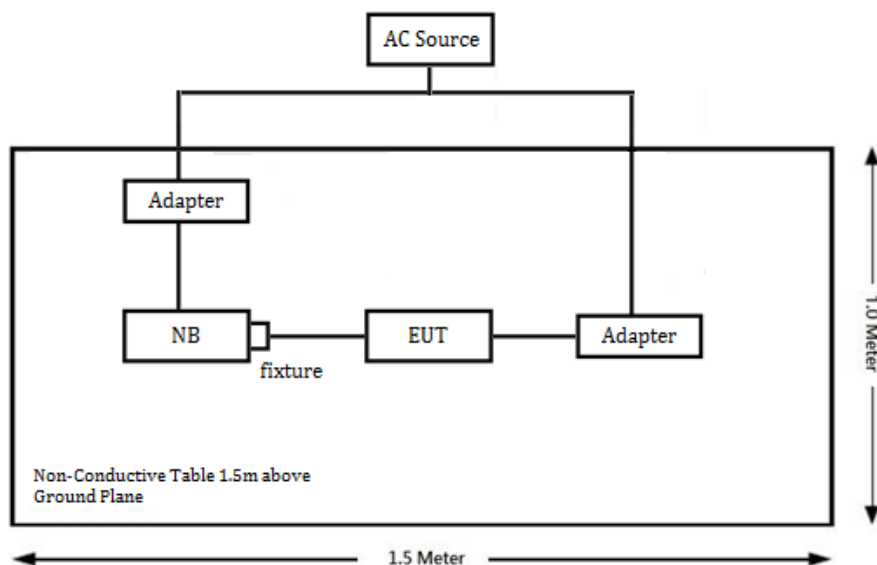
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

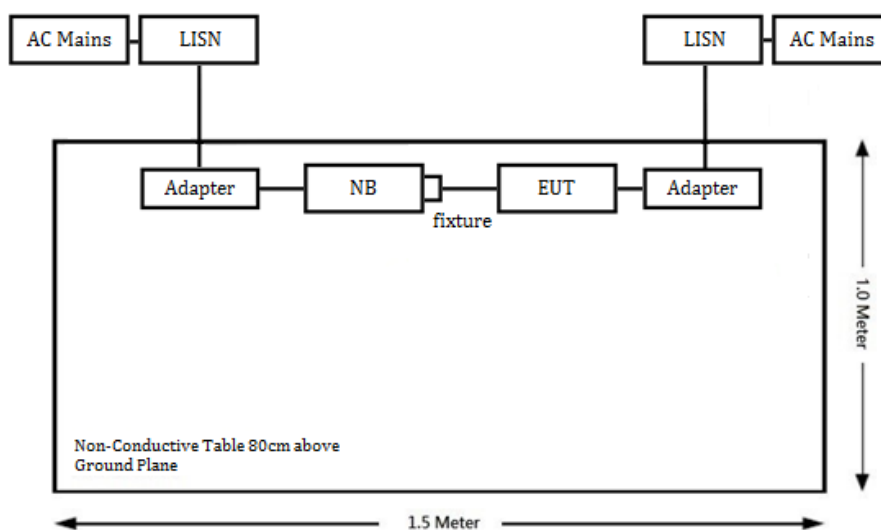
Below 1GHz:



Above 1GHz:



Conduction:



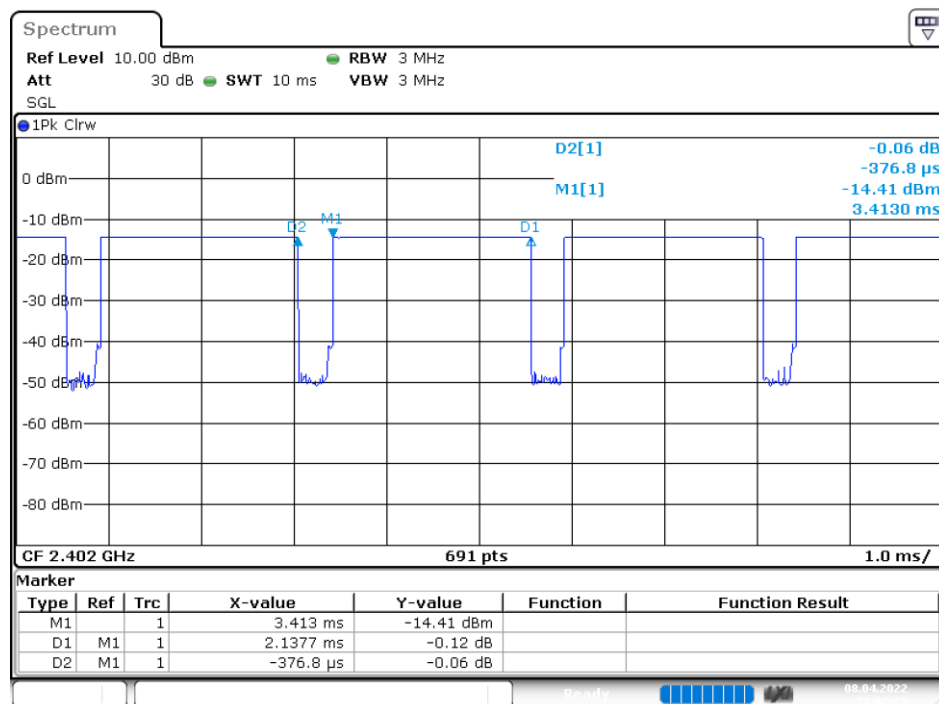
2.8 Duty Cycle

The duty cycle as below:

Radio Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty Cycle (%)
BLE 1M	2.138	2.514	85

Please refer to the following plots.

BLE(1M) Mode



Date: 8.APR.2022 22:02:26

3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.247(i), §1.1307(b)(3)(i)	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	101612	2022/1/14	2023/1/13
LISN	Rohde & Schwarz	ENV216	101248	2021/6/8	2022/6/7
EMI Test Receiver	Rohde & Schwarz	ESW8	100947	2021/7/23	2022/7/22
Pulse Limiter	Rohde & Schwarz	ESH3Z2	TXZEM104	2021/7/29	2022/7/28
RF Cable	EMEC	EM-CB5D	1	2021/6/11	2022/6/10
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room (966-A)					
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554 2_01	2022/2/14	2023/2/13
Horn Antenna	EMCO	3115	9809-5583	2021/9/1	2022/8/31
Horn Antenna	ETS-Lindgren	3116	62638	2021/8/11	2022/8/10
Preamplifier	Sonoma	310N	130602	2021/6/8	2022/6/7
Preamplifier	A.H. system Inc.	PAM-0118P	466	2021/11/4	2022/11/3
Microwave Preamplifier	EM Electronics Corporation	EM18G40G	60656	2021/12/27	2022/12/26
Spectrum Analyzer	Rohde & Schwarz	FSV40	101435	2022/1/13	2023/1/12
EMI Test Receiver	Rohde & Schwarz	ESR7	101419	2021/11/9	2022/11/8
Micro flex Cable	UTIFLEX	UFB197C-1-236 2-70U-70U	225757-001	2022/1/24	2023/1/23
Coaxial Cable	COMMATE	PEWC	8Dr	2021/12/24	2022/12/23
Coaxial Cable	UTIFLEX	UFB311A-Q-14 40-300300	220490-006	2022/1/24	2023/1/23
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-04 4	2021/12/24	2022/12/23
Cable	EMC	EMC105-SM-S M-10000	201003	2022/1/24	2023/1/23
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-450CM	160309-1	2022/1/24	2023/1/23
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-50CM	15120-1	2022/1/18	2023/1/17
Software	Farad	EZ EMC	BACL-03A1	N.C.R	N.C.R
Conducted Room					
Spectrum Analyzer	Rohde & Schwarz	FSV40	101140	2022/2/18	2023/2/17
Cable	UTIFLEX	UFA210A	9435	2021/10/5	2022/10/4
Power Sensor	KEYSIGHT	U2021XA	MY54080018	2022/1/24	2023/1/23
Attenuator	MINI-CIRCUITS	BW-S10W5+	1419	2022/2/11	2023/2/10

***Statement of Traceability:** BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements

5 FCC §15.247(i), §1.1307(b)(3)(i) – RF Exposure

5.1 Applicable Standard

According to subpart 15.247(i) and subpart §1.1307(b)(3)(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

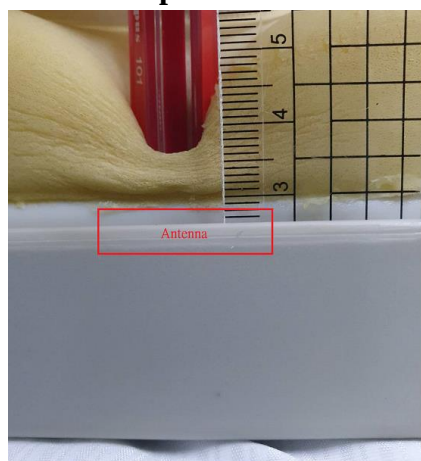
$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

For multiple RF sources: Multiple RF sources are exempt if:

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure \text{ Limit}_k} \leq 1$$

5.2 RF Exposure Evaluation Result



Project info

Band	Freq (MHz)	Tune-up Power (dBm)	Ant Gain (dBi)	Distances (mm)	Duty (%)	Tune-up Power (mW)	ERP (dBm)	ERP (mW)
BT	2480	-2	-0.76	8	100%	0.63	-4.91	0.32
BLE	2480	-2.5	-0.76	8	100%	0.56	-5.41	0.29
BLE FCC ID: SH6MDBT42Q	2480	4	3.3	8	100%	2.51	5.15	3.27

Option A

The available maximum time-averaged power is no more than 1 mW

Band	Freq (MHz)	Result Option A
BT	2480	exempt
BLE	2480	exempt
BLE FCC ID: SH6MDBT42Q	2480	not exempt

Option B

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater.

This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).

Band	Freq (MHz)	Pth (mW)	X	ERP 20cm (mW)	Ratio	Result Option B
BT	2480	6.65	1.905	3060	0.095	exempt
BLE	2480	6.65	1.905	3060	0.085	exempt
BLE FCC ID: SH6MDBT42Q	2480	6.65	1.905	3060	0.492	exempt

Simultaneous Analysis :

BLE/BT and BLE (FCC ID: SH6MDBT42Q) can transmit simultaneously; the worst condition as below:

$$0.095 + 0.492 = 0.587 < 1$$

Result: The EUT meets exemption requirement

6 FCC §15.203 – Antenna Requirements

6.1 Applicable Standard

According to § 15.203,

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

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna does not exceed 6dBi.

6.2 Antenna Information

Manufacturer	Model	Type	Antenna Gain
ZHUHAI JIELI TECHNOLOGY CO.,LTD	N/A	PCB Antenna	-0.76 dBi

Result: Compliance

7 FCC §15.207(a) – AC Line Conducted Emissions

7.1 Applicable Standard

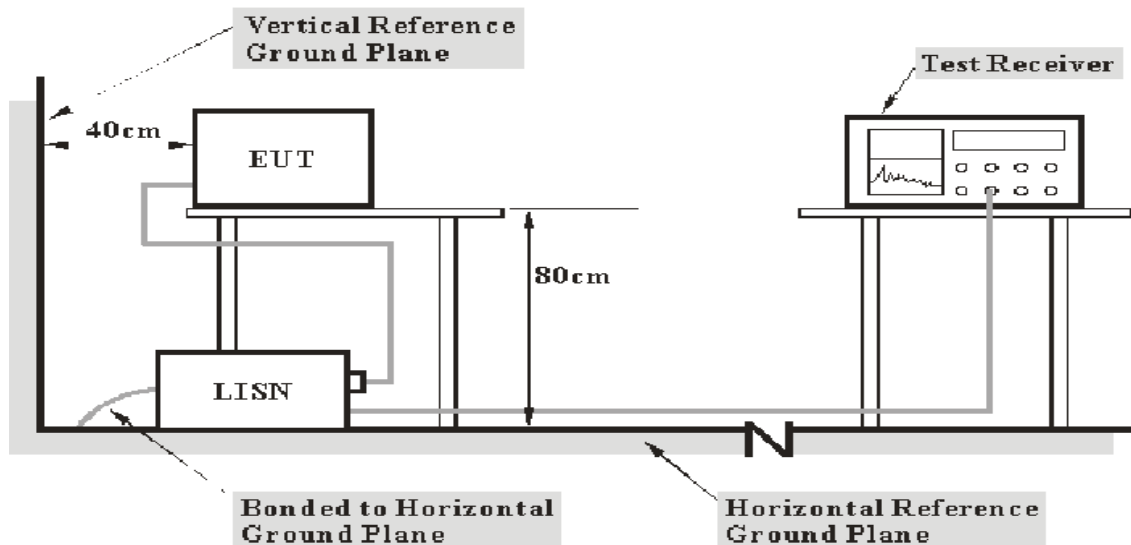
According to §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

7.2 EUT Setup



- Note:** 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

7.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations

Frequency Range	IF B/W
150kHz – 30MHz	9kHz

7.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

7.5 Corrected Factor & Margin Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

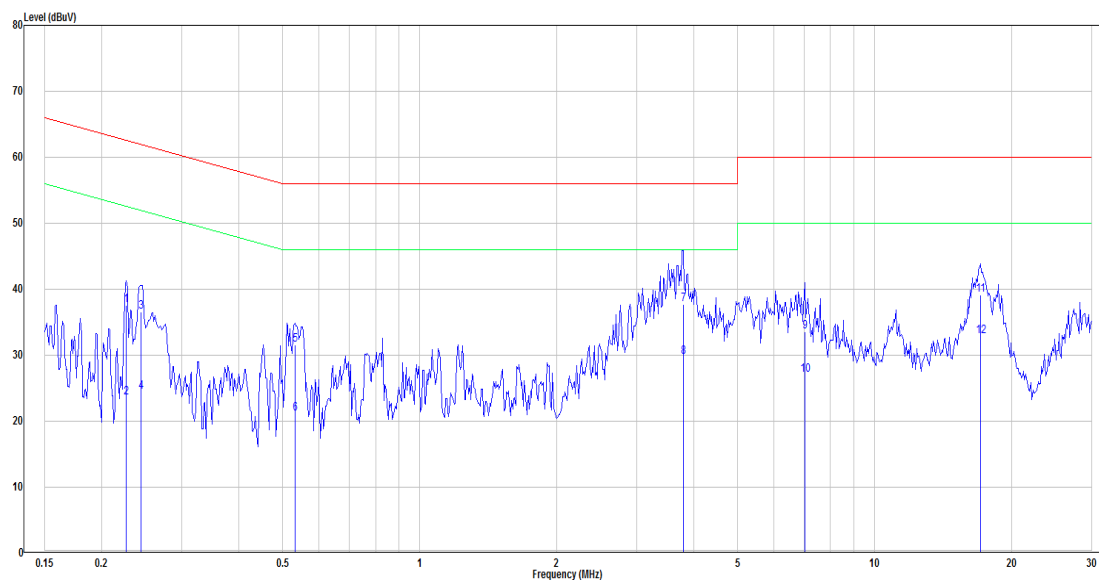
$$\text{Over Limit} = \text{Level} - \text{Limit Line}$$

7.6 Test Results

Test Mode: Transmitting

Model: AirCozy Premium_N_VA

AC120 V, 60 Hz, Line



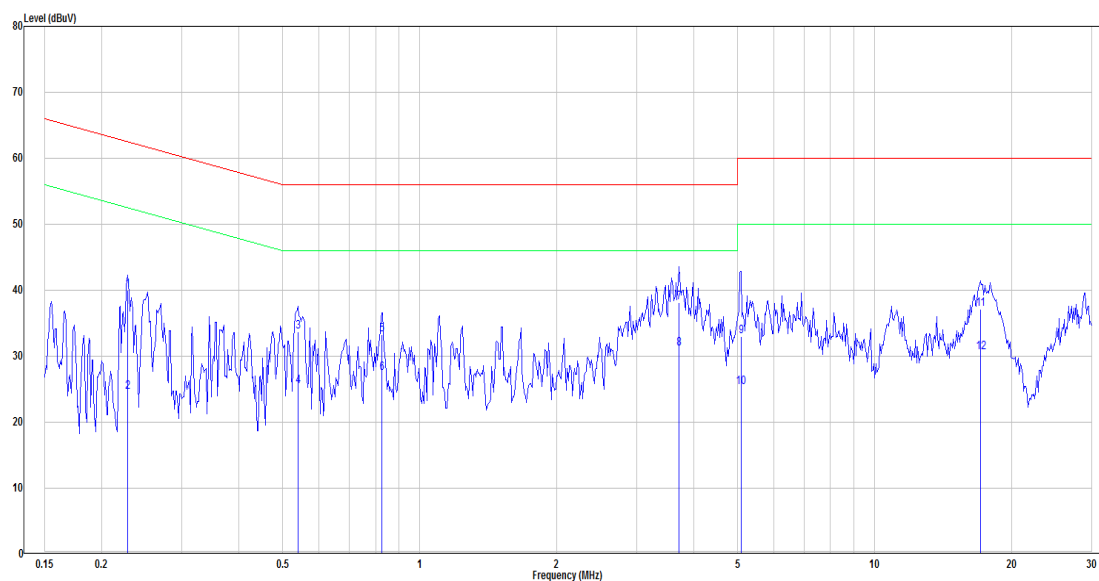
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Over limit (dB)	Remark
1	0.227	18.00	19.50	37.50	62.57	-25.07	QP
2	0.227	4.04	19.50	23.54	52.57	-29.03	Average
3	0.244	17.12	19.50	36.62	61.95	-25.33	QP
4	0.244	4.87	19.50	24.37	51.95	-27.58	Average
5	0.532	12.11	19.52	31.63	56.00	-24.37	QP
6	0.532	1.61	19.52	21.13	46.00	-24.87	Average
7	3.799	18.07	19.62	37.69	56.00	-18.31	QP
8	3.799	10.06	19.62	29.68	46.00	-16.32	Average
9	7.025	13.83	19.69	33.52	60.00	-26.48	QP
10	7.025	7.24	19.69	26.93	50.00	-23.07	Average
11	17.109	19.39	19.80	39.19	60.00	-20.81	QP
12	17.109	12.99	19.80	32.79	50.00	-17.21	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

AC120 V, 60 Hz, Neutral

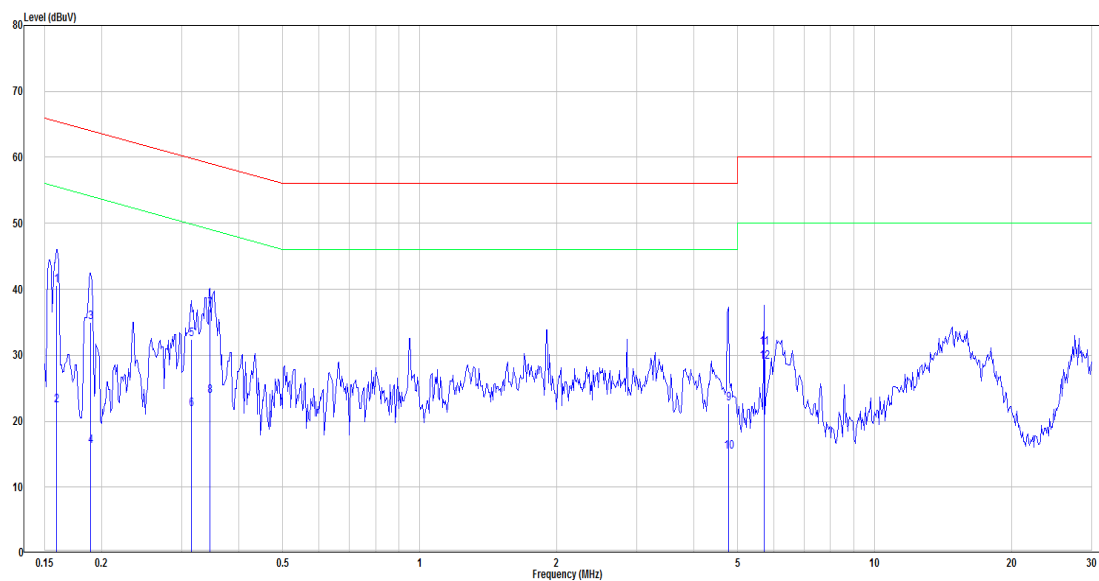
No.	Frequency	Reading	Correct	Result	Limit	Over limit	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.228	20.55	19.49	40.04	62.52	-22.48	QP
2	0.228	5.12	19.49	24.61	52.52	-27.91	Average
3	0.541	14.26	19.52	33.78	56.00	-22.22	QP
4	0.541	5.88	19.52	25.40	46.00	-20.60	Average
5	0.826	13.73	19.53	33.26	56.00	-22.74	QP
6	0.826	7.96	19.53	27.49	46.00	-18.51	Average
7	3.720	18.54	19.62	38.16	56.00	-17.84	QP
8	3.720	11.59	19.62	31.21	46.00	-14.79	Average
9	5.085	13.31	19.66	32.97	60.00	-27.03	QP
10	5.085	5.62	19.66	25.28	50.00	-24.72	Average
11	17.109	17.32	19.86	37.18	60.00	-22.82	QP
12	17.109	10.76	19.86	30.62	50.00	-19.38	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

Model: AirCozy Premium_N_VA2**AC120 V, 60 Hz, Line**

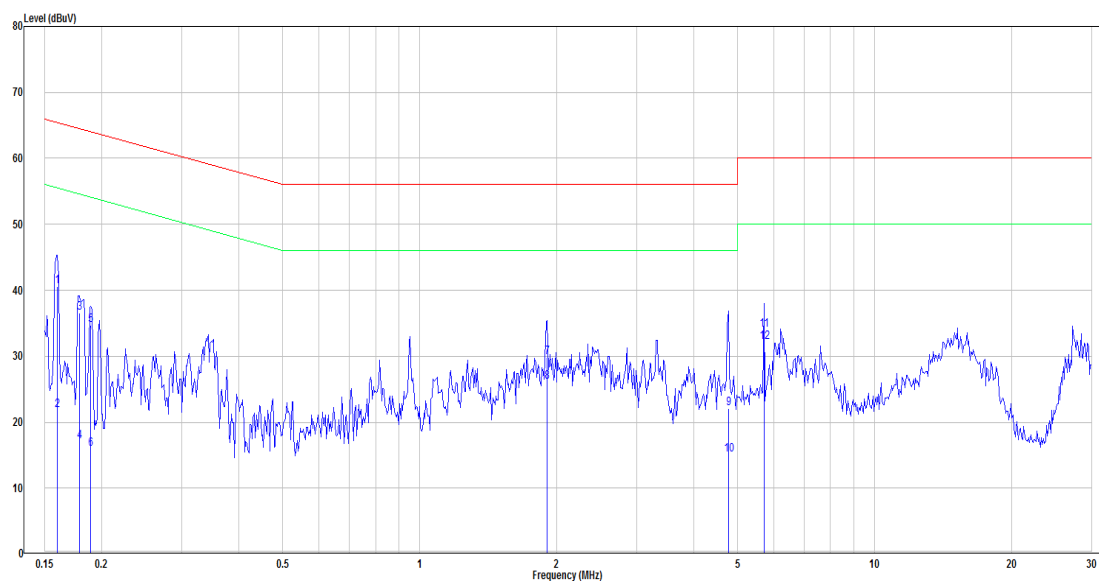
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Over limit (dB)	Remark
1	0.159	21.05	19.50	40.55	65.52	-24.97	QP
2	0.159	2.91	19.50	22.41	55.52	-33.11	Average
3	0.189	15.55	19.50	35.05	64.06	-29.01	QP
4	0.189	-3.32	19.50	16.18	54.06	-37.88	Average
5	0.315	12.87	19.51	32.38	59.84	-27.46	QP
6	0.315	2.33	19.51	21.84	49.84	-28.00	Average
7	0.346	17.54	19.51	37.05	59.05	-22.00	QP
8	0.346	4.24	19.51	23.75	49.05	-25.30	Average
9	4.772	2.95	19.65	22.60	56.00	-33.40	QP
10	4.772	-4.27	19.65	15.38	46.00	-30.62	Average
11	5.713	11.48	19.67	31.15	60.00	-28.85	QP
12	5.713	9.24	19.67	28.91	50.00	-21.09	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

AC120 V, 60 Hz, Neutral

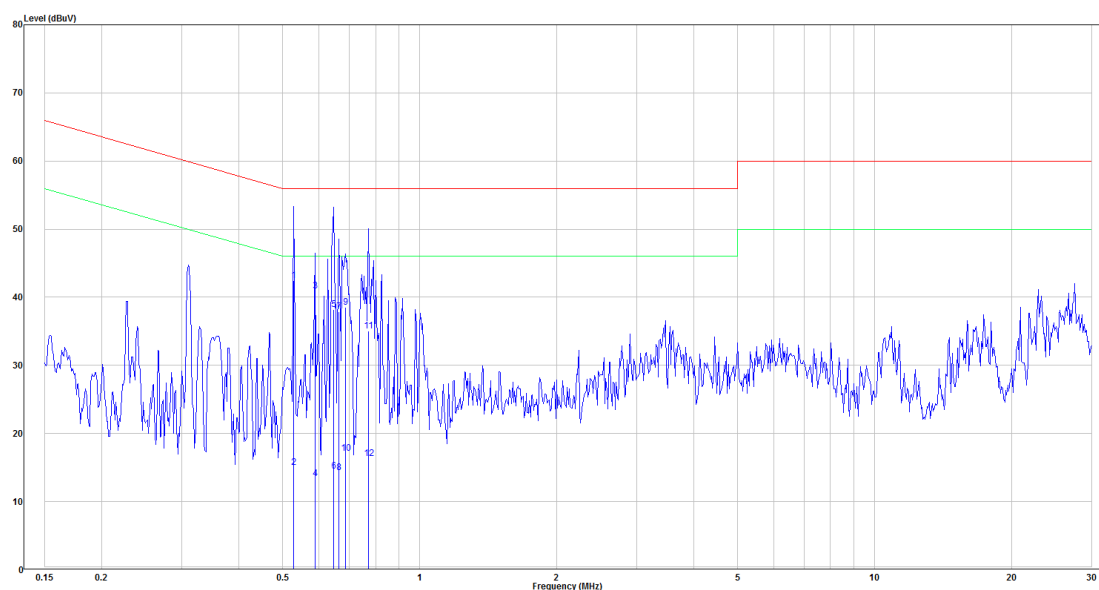
No.	Frequency	Reading	Correct	Result	Limit	Over limit	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.160	21.11	19.50	40.61	65.47	-24.86	QP
2	0.160	2.30	19.50	21.80	55.47	-33.67	Average
3	0.179	17.01	19.50	36.51	64.55	-28.04	QP
4	0.179	-2.44	19.50	17.06	54.55	-37.49	Average
5	0.189	15.27	19.49	34.76	64.06	-29.30	QP
6	0.189	-3.52	19.49	15.97	54.06	-38.09	Average
7	1.908	10.23	19.57	29.80	56.00	-26.20	QP
8	1.908	6.51	19.57	26.08	46.00	-19.92	Average
9	4.772	2.49	19.66	22.15	56.00	-33.85	QP
10	4.772	-4.64	19.66	15.02	46.00	-30.98	Average
11	5.713	14.33	19.68	34.01	60.00	-25.99	QP
12	5.713	12.47	19.68	32.15	50.00	-17.85	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

Transmitting simultaneously test:**BLE and BLE mode transmitting simultaneously****AC120 V, 60 Hz, Line**

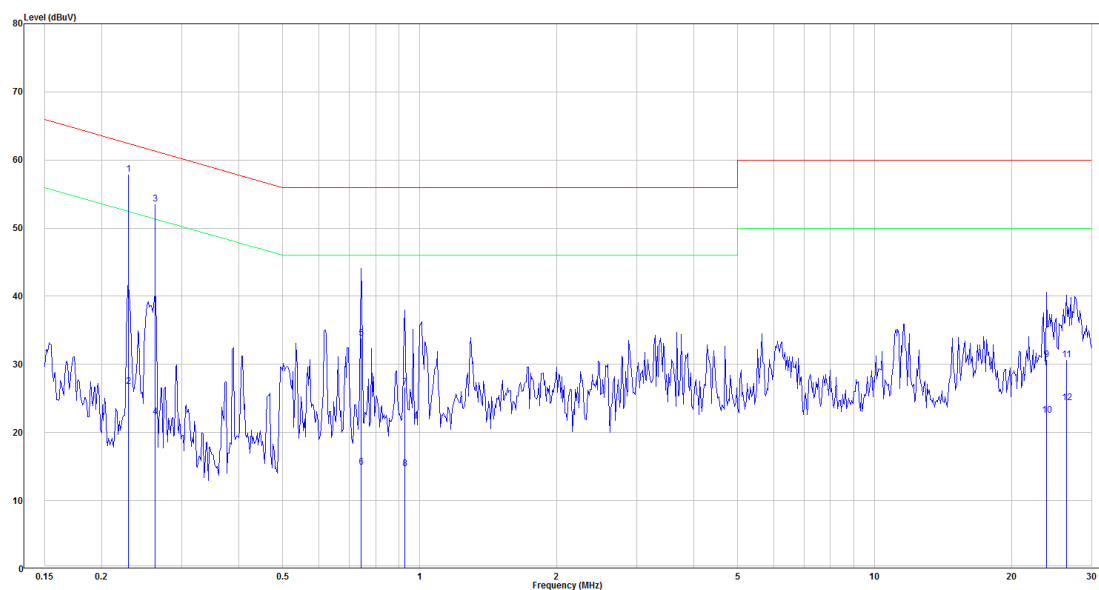
No.	Frequency	Reading	Correct	Result	Limit	Over limit	Remark
	(MHz)	(dBμV)	Factor(dB)	(dBμV)	(dBμV)	(dB)	
1	0.529	22.97	19.52	42.49	56.00	-13.51	QP
2	0.529	-4.53	19.52	14.99	46.00	-31.01	Average
3	0.589	21.37	19.52	40.89	56.00	-15.11	QP
4	0.589	-6.08	19.52	13.44	46.00	-32.56	Average
5	0.647	18.71	19.53	38.24	56.00	-17.76	QP
6	0.647	-5.03	19.53	14.50	46.00	-31.50	Average
7	0.665	18.33	19.53	37.86	56.00	-18.14	QP
8	0.665	-5.23	19.53	14.30	46.00	-31.70	Average
9	0.686	19.01	19.53	38.54	56.00	-17.46	QP
10	0.686	-2.39	19.53	17.14	46.00	-28.86	Average
11	0.771	15.52	19.53	35.05	56.00	-20.95	QP
12	0.771	-3.15	19.53	16.38	46.00	-29.62	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

AC120 V, 60 Hz, Neutral

No.	Frequency	Reading	Correct	Result	Limit	Over limit	Remark
	(MHz)	(dBμV)	Factor(dB)	(dBμV)	(dBμV)	(dB)	
1	0.229	38.46	19.49	57.95	62.48	-4.53	QP
2	0.229	7.28	19.49	26.77	52.48	-25.71	Average
3	0.262	34.07	19.50	53.57	61.38	-7.81	QP
4	0.262	2.84	19.50	22.34	51.38	-29.04	Average
5	0.743	14.38	19.52	33.90	56.00	-22.10	QP
6	0.743	-4.62	19.52	14.90	46.00	-31.10	Average
7	0.928	7.13	19.53	26.66	56.00	-29.34	QP
8	0.928	-4.89	19.53	14.64	46.00	-31.36	Average
9	23.888	10.77	19.96	30.73	60.00	-29.27	QP
10	23.888	2.58	19.96	22.54	50.00	-27.46	Average
11	26.418	10.68	19.99	30.67	60.00	-29.33	QP
12	26.418	4.36	19.99	24.35	50.00	-25.65	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

8 FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions

8.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	608 – 614	4. 5 – 5. 15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5. 35 – 5. 46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 – 167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3 3458 – 3 358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

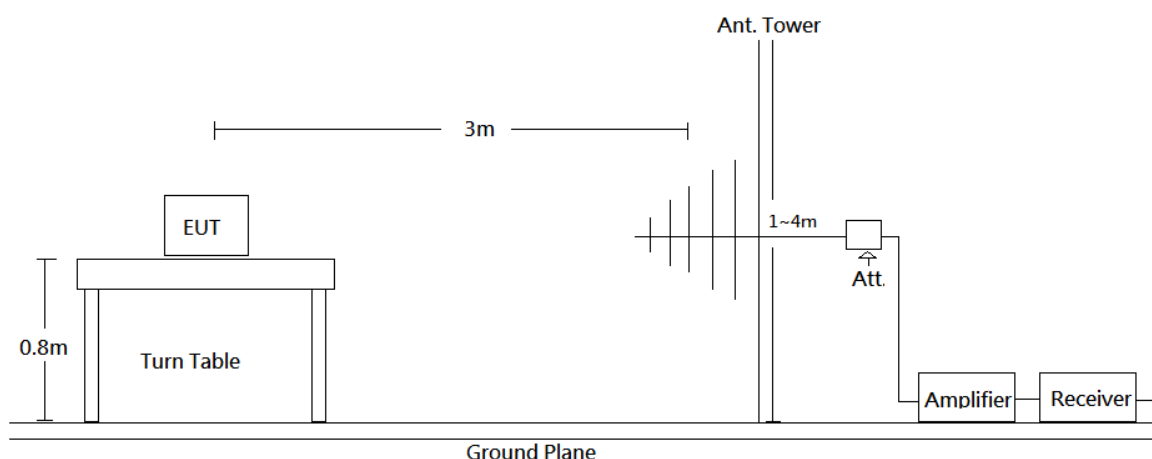
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the

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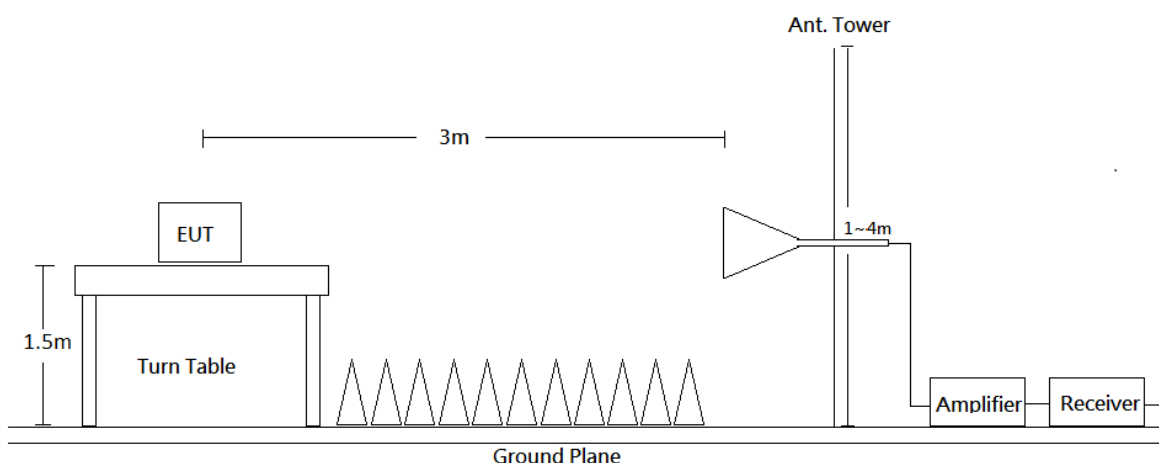
intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.2 EUT Setup

Below 1 GHz:



Above 1 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209 and FCC 15.247 Limits.

8.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 26.5 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	VBW	Duty cycle	Measurement method
30-1000 MHz	120 kHz	/	/	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	>98%	Ave
	1 MHz	1/T	<98%	Ave

Note: T is minimum transmission duration

8.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

8.5 Corrected Factor & Margin Calculation

The Correct Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Result} - \text{Limit}$$

8.6 Test Results

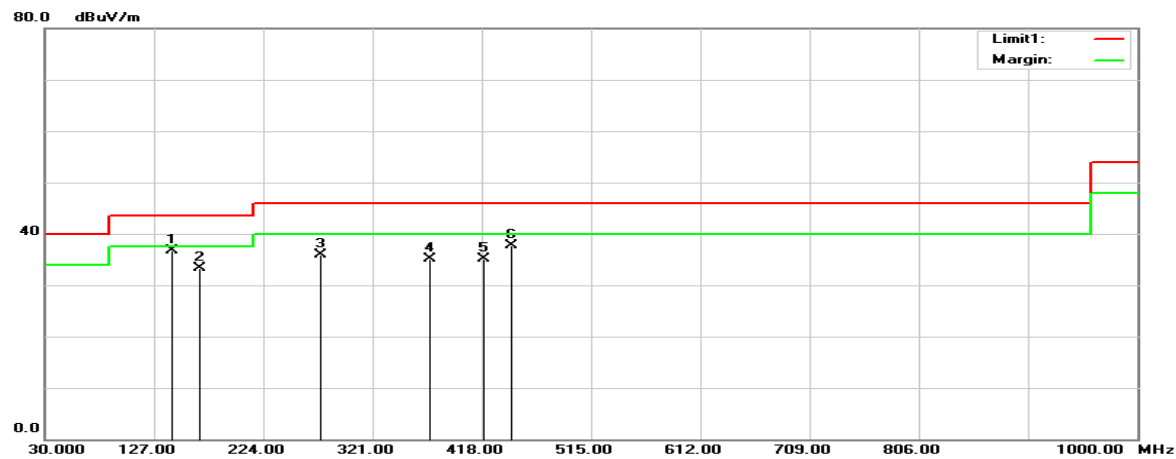
Test Mode: Transmitting (Pre-scan with three orthogonal axis, and worse case as Z axis.)

(Worst case is BLE 1M mode Middle channel)

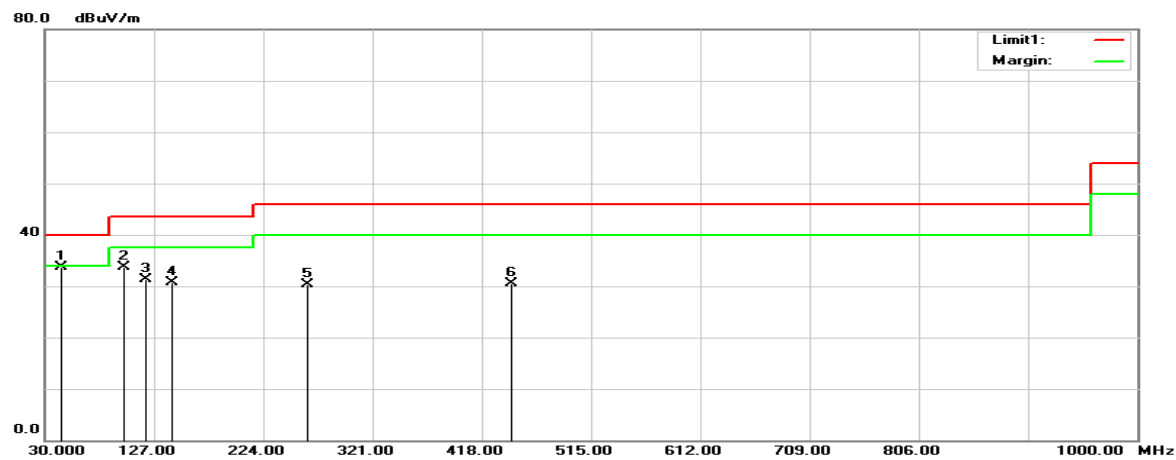
Model: AirCozy Premium_N_VA

30MHz-1GHz:

Horizontal

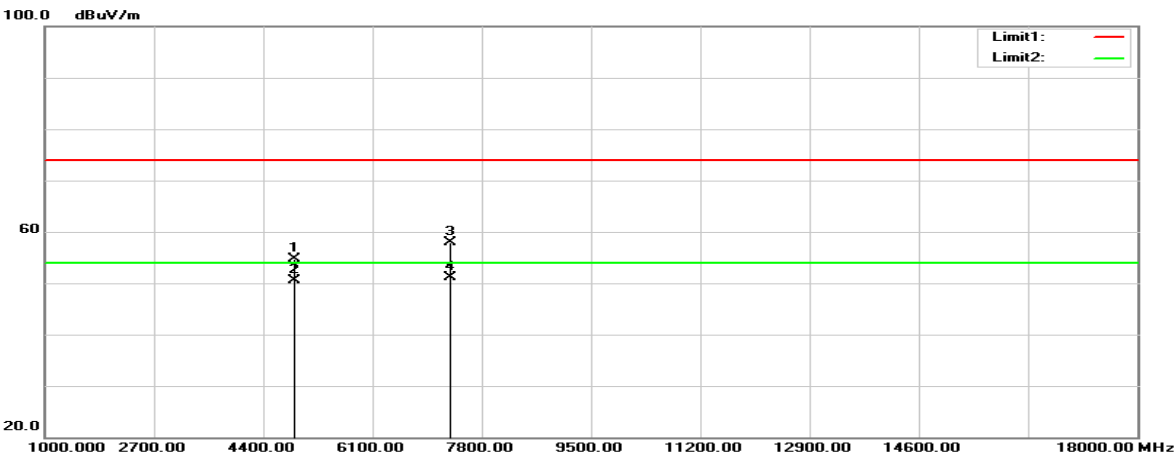


Vertical

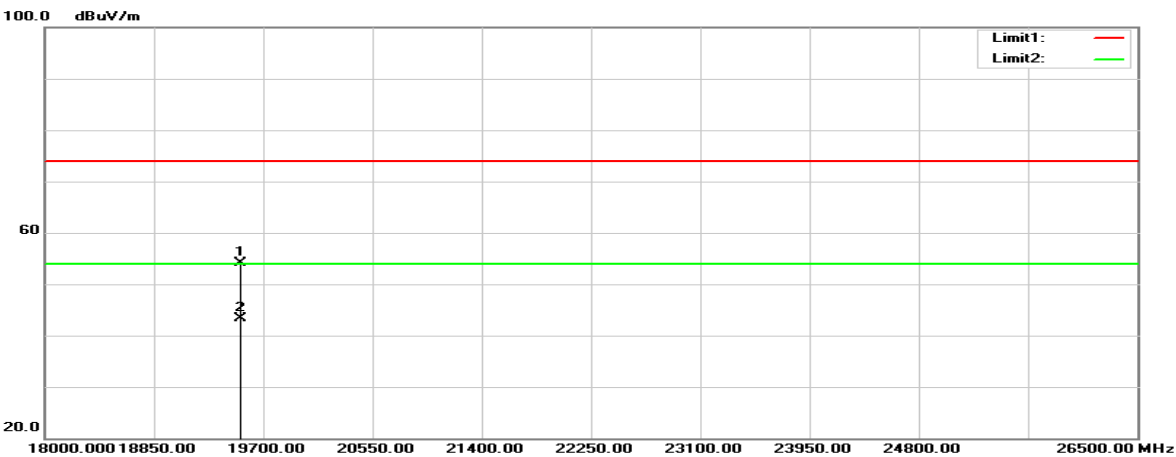


Horizontal

1GHz-18GHz:

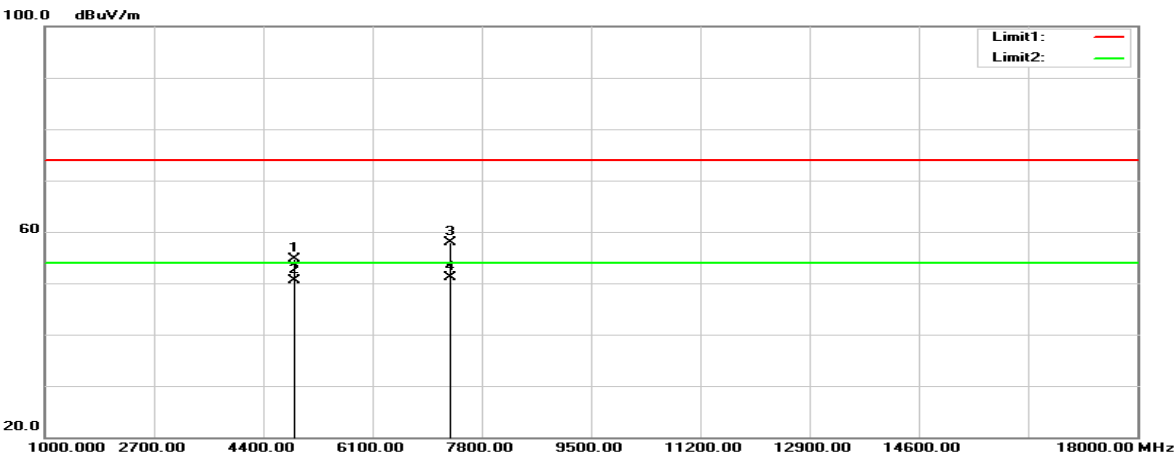


18GHz-26.5GHz:

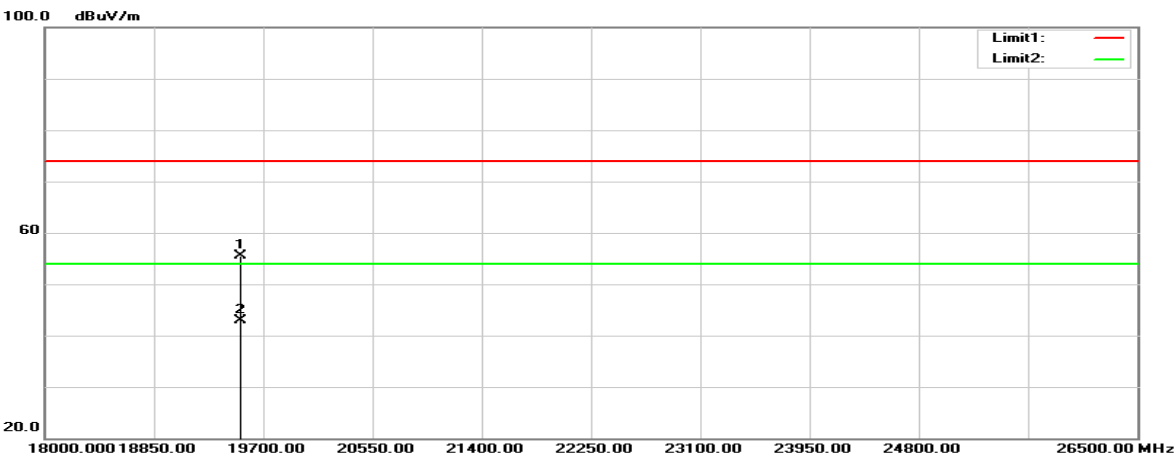


Vertical

1GHz-18GHz:



18GHz-26.5GHz:



Below 1GHz**Horizontal**

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
143.4900	49.55	-12.80	36.75	43.50	-6.75	133	347	peak
167.7400	47.06	-13.73	33.33	43.50	-10.17	133	1	peak
275.4100	48.33	-12.41	35.92	46.00	-10.08	133	282	peak
371.4400	45.88	-10.83	35.05	46.00	-10.95	133	359	peak
419.9400	44.55	-9.45	35.10	46.00	-10.90	133	237	peak
444.1900	46.86	-9.10	37.76	46.00	-8.24	133	340	peak

Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
44.5500	48.73	-14.97	33.76	40.00	-6.24	100	150	peak
99.8400	49.01	-15.29	33.72	43.50	-9.78	100	310	peak
119.2400	43.22	-11.83	31.39	43.50	-12.11	100	34	peak
143.4900	43.49	-12.80	30.69	43.50	-12.81	100	241	peak
263.7700	43.46	-13.08	30.38	46.00	-15.62	100	248	peak
444.1900	39.54	-9.10	30.44	46.00	-15.56	100	306	peak

Result = Reading + Correct Factor

Margin = Result – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported.

Above 1GHz**Horizontal**

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
Low channel								
2389.100	56.54	-9.75	46.79	74.00	-27.21	150	210	peak
2389.100	44.20	-9.75	34.45	54.00	-19.55	150	210	AVG
4804.000	59.30	-2.70	56.60	74.00	-17.40	150	172	peak
4804.000	55.16	-2.70	52.46	54.00	-1.54	150	172	AVG
7206.000	52.61	2.76	55.37	74.00	-18.63	124	307	peak
7206.000	46.24	2.76	49.00	54.00	-5.00	124	307	AVG
Middle channel								
4880.000	58.83	-2.68	56.15	74.00	-17.85	135	9	peak
4880.000	55.15	-2.68	52.47	54.00	-1.53	135	9	AVG
7320.000	53.71	3.18	56.89	74.00	-17.11	121	301	peak
7320.000	46.65	3.18	49.83	54.00	-4.17	121	301	AVG
High channel								
2483.500	68.45	-8.89	59.56	74.00	-14.44	153	230	peak
2483.500	54.50	-8.89	45.61	54.00	-8.39	153	230	AVG
4960.000	58.14	-2.44	55.70	74.00	-18.30	116	12	peak
4960.000	54.21	-2.44	51.77	54.00	-2.23	116	12	AVG
7440.000	54.36	3.56	57.92	74.00	-16.08	122	308	peak
7440.000	47.79	3.56	51.35	54.00	-2.65	122	308	AVG

Result = Reading + Correct Factor

Margin = Result – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported.

Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
Low channel								
2373.300	56.66	-9.88	46.78	74.00	-27.22	113	292	peak
2373.300	43.82	-9.88	33.94	54.00	-20.06	113	292	AVG
4804.000	58.12	-2.70	55.42	74.00	-18.58	138	273	peak
4804.000	54.49	-2.70	51.79	54.00	-2.21	138	273	AVG
7206.000	52.53	2.76	55.29	74.00	-18.71	123	297	peak
7206.000	45.02	2.76	47.78	54.00	-6.22	123	297	AVG
Middle channel								
4880.000	57.32	-2.68	54.64	74.00	-19.36	125	273	peak
4880.000	53.25	-2.68	50.57	54.00	-3.43	125	273	AVG
7320.000	54.65	3.18	57.83	74.00	-16.17	109	336	peak
7320.000	47.99	3.18	51.17	54.00	-2.83	109	336	AVG
High channel								
2483.500	67.23	-8.89	58.34	74.00	-15.66	110	292	peak
2483.500	53.56	-8.89	44.67	54.00	-9.33	110	292	AVG
4960.000	55.54	-2.44	53.10	74.00	-20.90	116	274	peak
4960.000	51.11	-2.44	48.67	54.00	-5.33	116	274	AVG
7440.000	55.05	3.56	58.61	74.00	-15.39	106	1	peak
7440.000	48.33	3.56	51.89	54.00	-2.11	106	1	AVG

Result = Reading + Correct Factor

Margin = Result – Limit

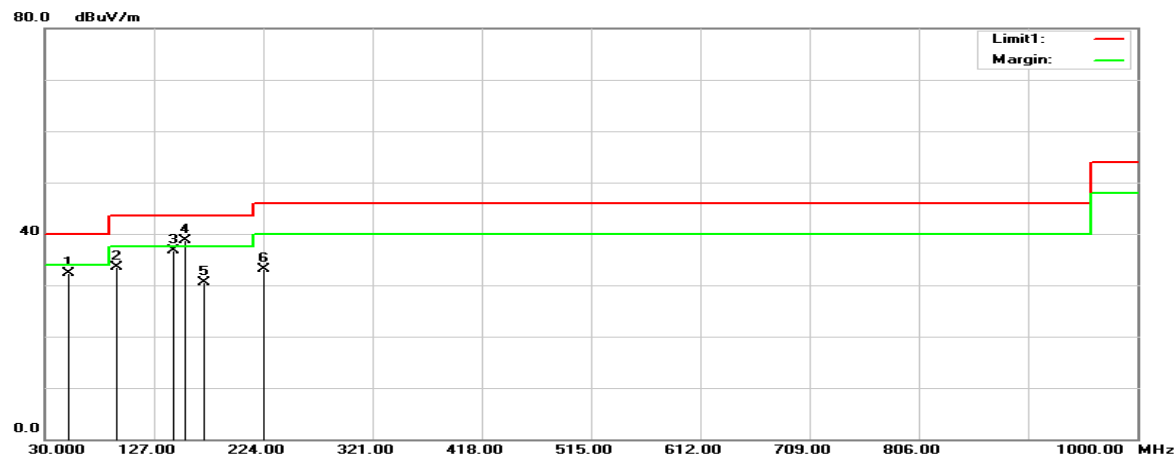
Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported.

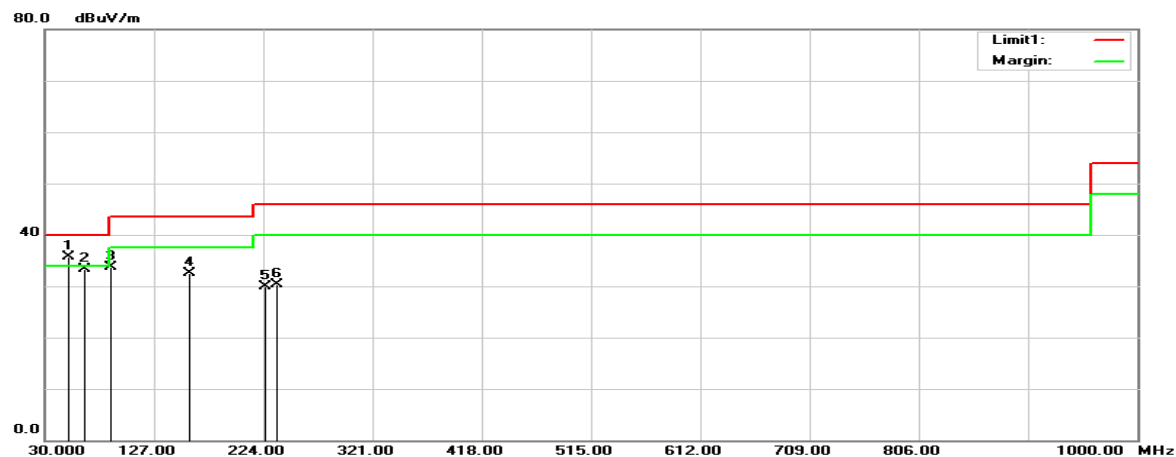
Model: AirCozy Premium_N_VA2

30MHz-1GHz:

Horizontal



Vertical



Below 1GHz**Horizontal**

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
51.3400	47.52	-15.20	32.32	40.00	-7.68	100	50	peak
94.0200	47.18	-13.77	33.41	43.50	-10.09	100	55	peak
144.4600	46.09	-9.39	36.70	43.50	-6.80	100	1	peak
155.1300	48.15	-9.46	38.69	43.50	-4.81	100	207	QP
171.6200	40.76	-10.27	30.49	43.50	-13.01	100	55	peak
224.9700	43.78	-10.64	33.14	46.00	-12.86	100	77	peak

Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
51.3400	50.93	-15.20	35.73	40.00	-4.27	100	27	QP
65.8900	48.27	-15.04	33.23	40.00	-6.77	100	98	peak
88.2000	48.64	-14.99	33.65	43.50	-9.85	100	158	peak
158.0400	42.01	-9.51	32.50	43.50	-11.00	100	27	peak
225.9400	40.39	-10.57	29.82	46.00	-16.18	100	119	peak
235.6400	40.21	-9.98	30.23	46.00	-15.77	100	249	peak

Result = Reading + Correct Factor

Margin = Result – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

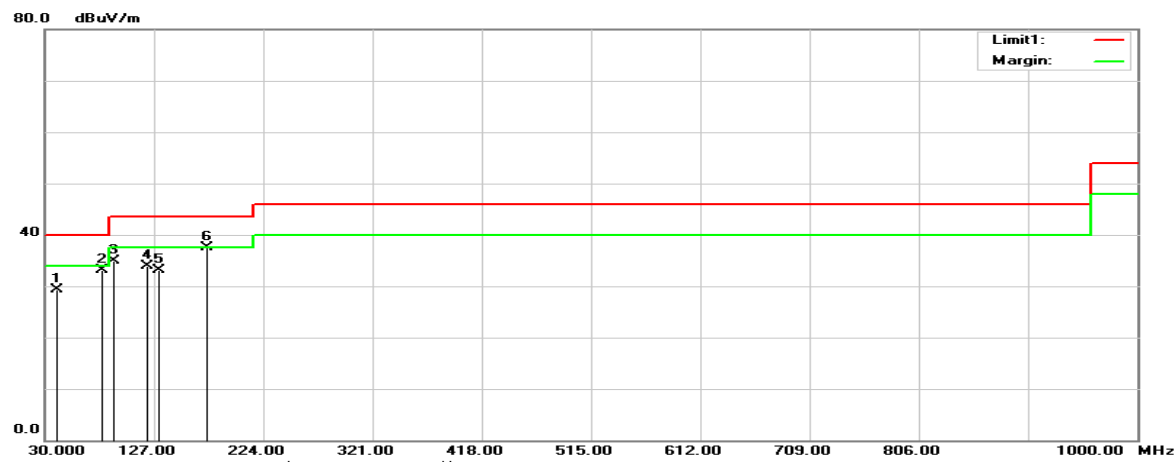
Spurious emissions more than 20 dB below the limit were not reported.

Transmitting simultaneously test:

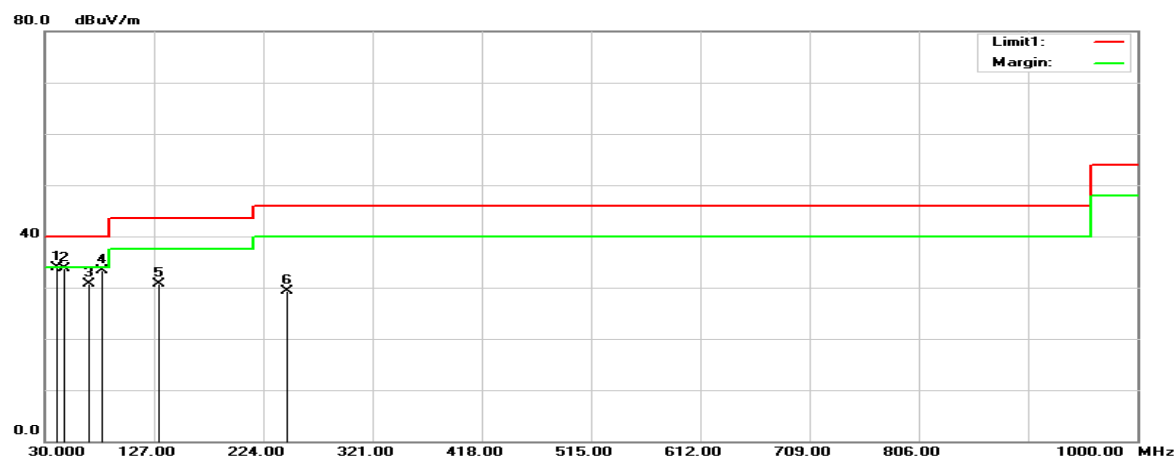
BLE and BLE mode transmitting simultaneously

30MHz-1GHz

Horizontal

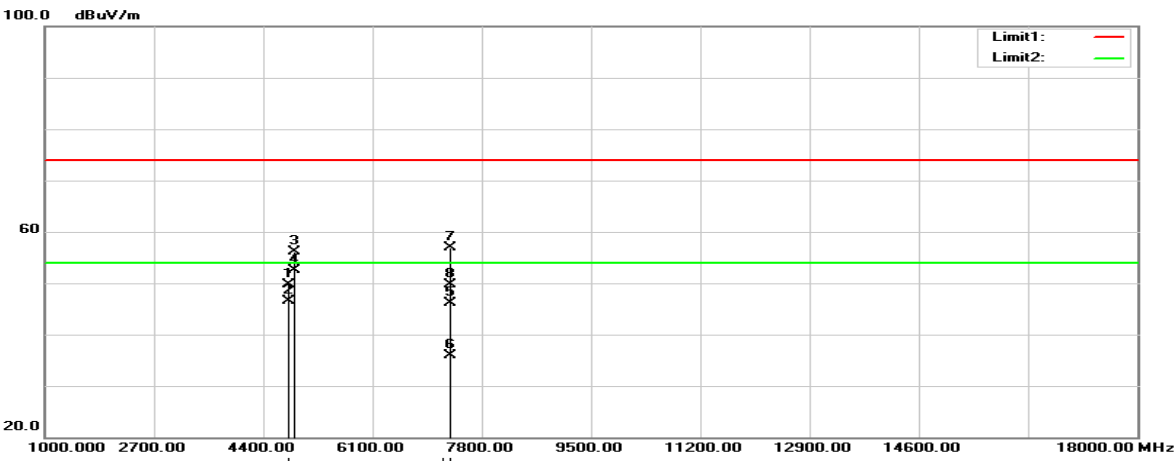


Vertical

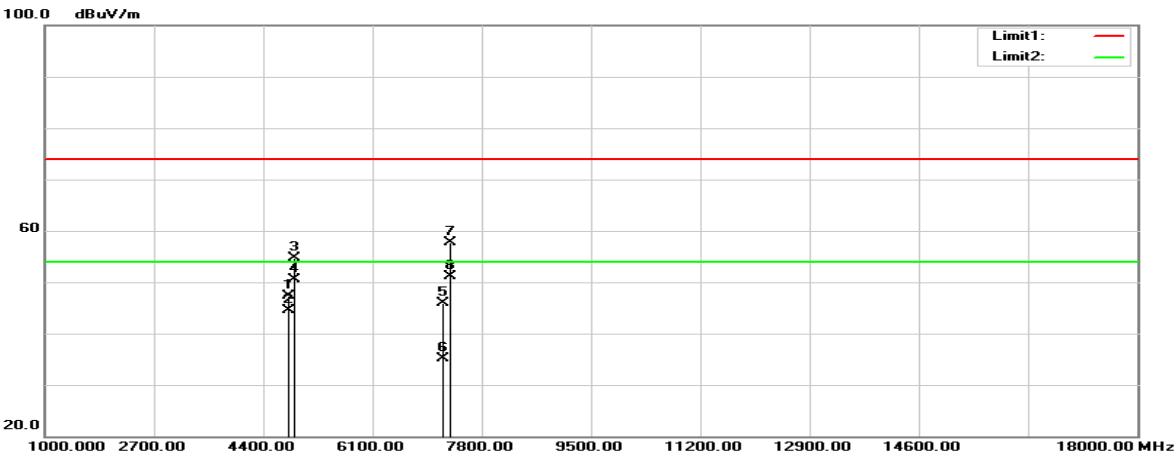


1GHz-18GHz:

Horizontal



Vertical



Below 1GHz**Horizontal**

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
40.6700	39.40	-10.12	29.28	40.00	-10.72	100	191	peak
81.4100	48.49	-15.29	33.20	40.00	-6.80	100	266	peak
91.1100	49.47	-14.55	34.92	43.50	-8.58	100	49	peak
121.1800	42.28	-8.30	33.98	43.50	-9.52	100	132	peak
130.8800	41.23	-8.13	33.10	43.50	-10.40	100	147	peak
173.5600	47.94	-10.46	37.48	43.50	-6.02	100	126	peak

Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
40.6700	44.03	-10.12	33.91	40.00	-6.09	100	286	peak
47.4600	47.61	-13.97	33.64	40.00	-6.36	100	245	peak
69.7700	45.45	-14.68	30.77	40.00	-9.23	100	140	peak
81.4100	48.65	-15.29	33.36	40.00	-6.64	100	117	peak
130.8800	38.89	-8.13	30.76	43.50	-12.74	100	323	peak
245.3400	39.05	-9.69	29.36	46.00	-16.64	100	274	peak

Result = Reading + Correct Factor

Margin = Result – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported.

Above 1GHz**Horizontal**

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
4804.000	52.31	-2.70	49.61	74.00	-24.39	132	72	peak
4804.000	49.24	-2.70	46.54	54.00	-7.46	132	72	AVG
4880.000	58.85	-2.68	56.17	74.00	-17.83	130	15	peak
4880.000	55.14	-2.68	52.46	54.00	-1.54	130	15	AVG
7306.000	42.87	3.14	46.01	74.00	-27.99	160	276	peak
7306.000	32.69	3.14	35.83	54.00	-18.17	160	276	AVG
7320.000	53.69	3.18	56.87	74.00	-17.13	118	332	peak
7320.000	46.62	3.18	49.80	54.00	-4.20	118	332	AVG

Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
(MHz)	(dBμV)	Factor(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)	
4804.000	50.09	-2.70	47.39	74.00	-26.61	148	271	peak
4804.000	47.19	-2.70	44.49	54.00	-9.51	148	271	AVG
4880.000	57.34	-2.68	54.66	74.00	-19.34	121	261	peak
4880.000	53.23	-2.68	50.55	54.00	-3.45	121	261	AVG
7206.000	43.20	2.76	45.96	74.00	-28.04	150	98	peak
7206.000	32.25	2.76	35.01	54.00	-18.99	150	98	AVG
7320.000	54.62	3.18	57.80	74.00	-16.20	125	328	peak
7320.000	48.00	3.18	51.18	54.00	-2.82	125	328	AVG

Result = Reading + Correct Factor

Margin = Result – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

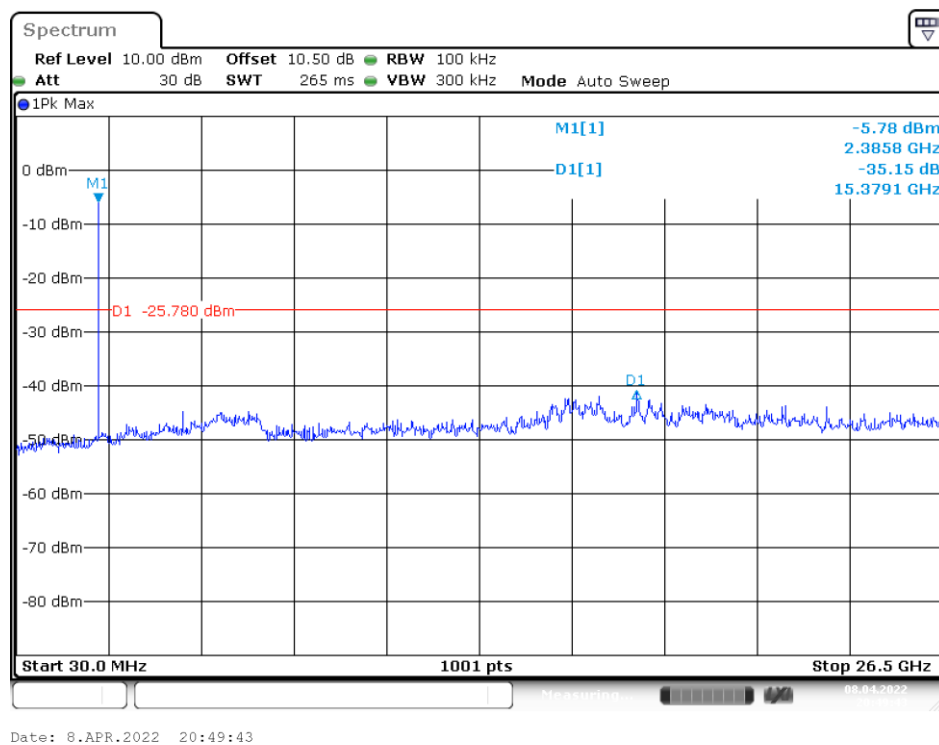
Spurious emissions more than 20 dB below the limit were not reported.

Conducted Spurious Emissions:

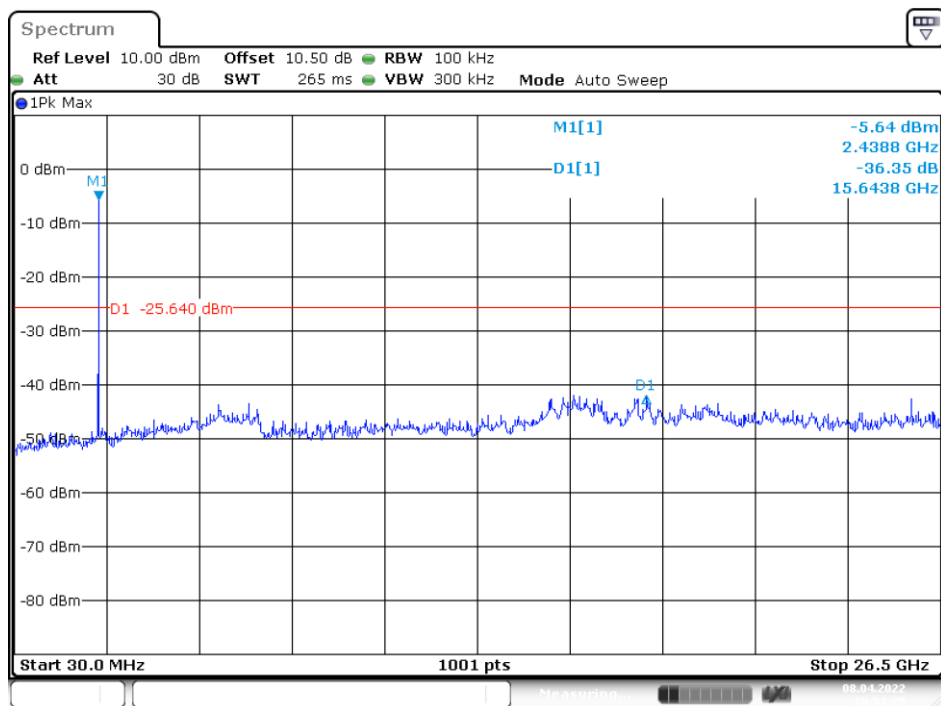
Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	35.15	≥ 20	PASS
Mid	2440	36.35	≥ 20	PASS
High	2480	35.80	≥ 20	PASS

Please refer to the following plots

BLE(1M) Mode
Low Channel

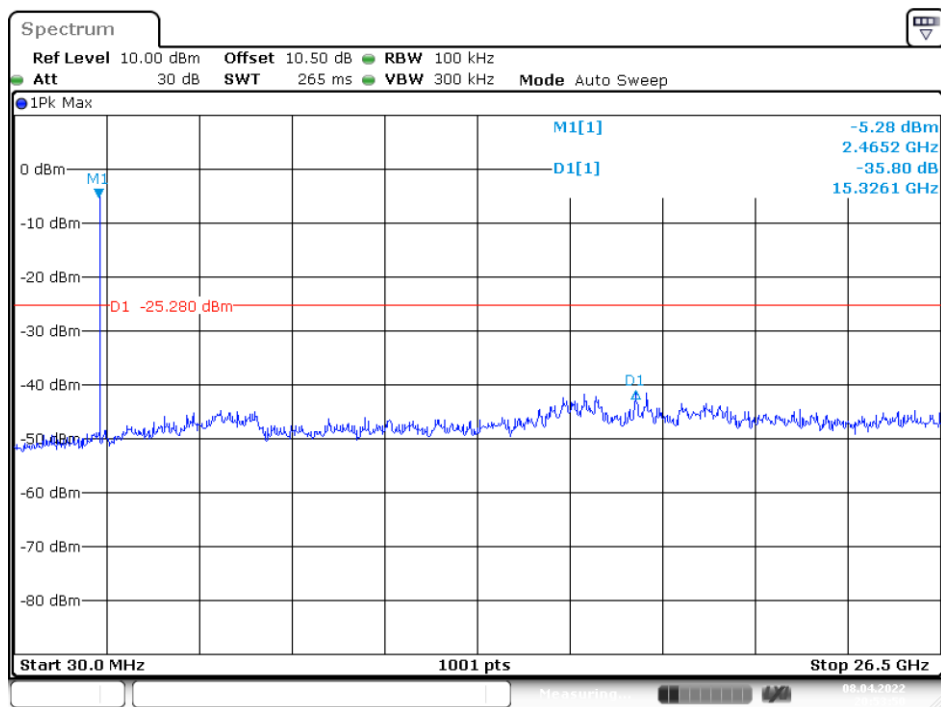


Middle Channel



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High Channel



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9 FCC §15.247(a)(2) – 6 dB Emission Bandwidth

9.1 Applicable Standard

According to FCC §15.247(a)(2).

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Test Procedure

The steps for the first option are as follows:

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- 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.

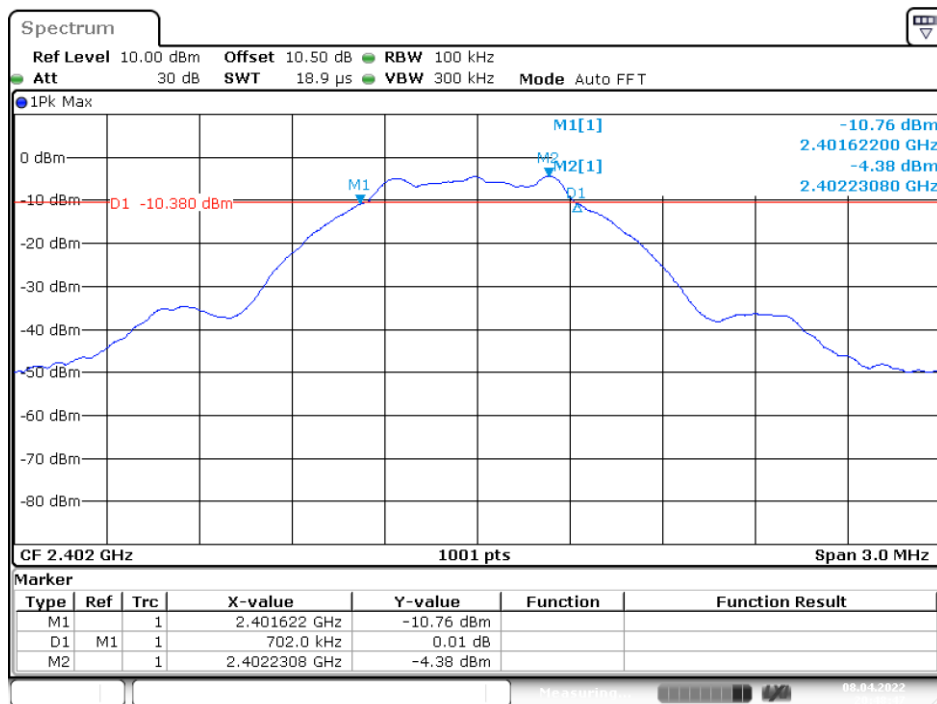
9.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (kHz)	Limit (kHz)	Result
BLE(1M) Mode				
Low	2402	702	> 500	Compliance
Middle	2440	702	> 500	Compliance
High	2480	705	> 500	Compliance

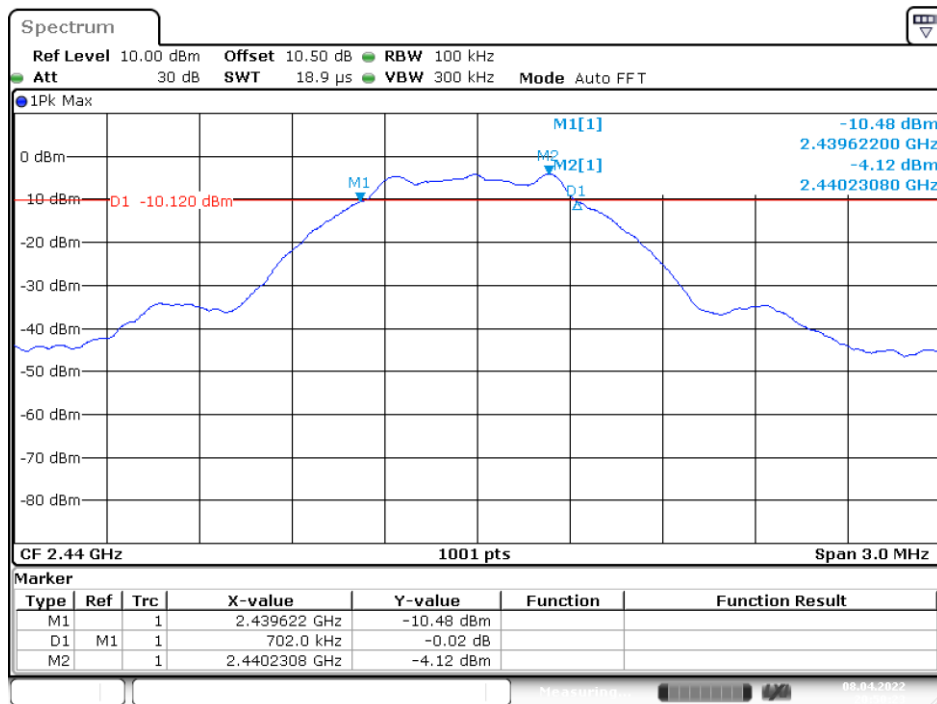
Please refer to the following plots

BLE(1M) Mode

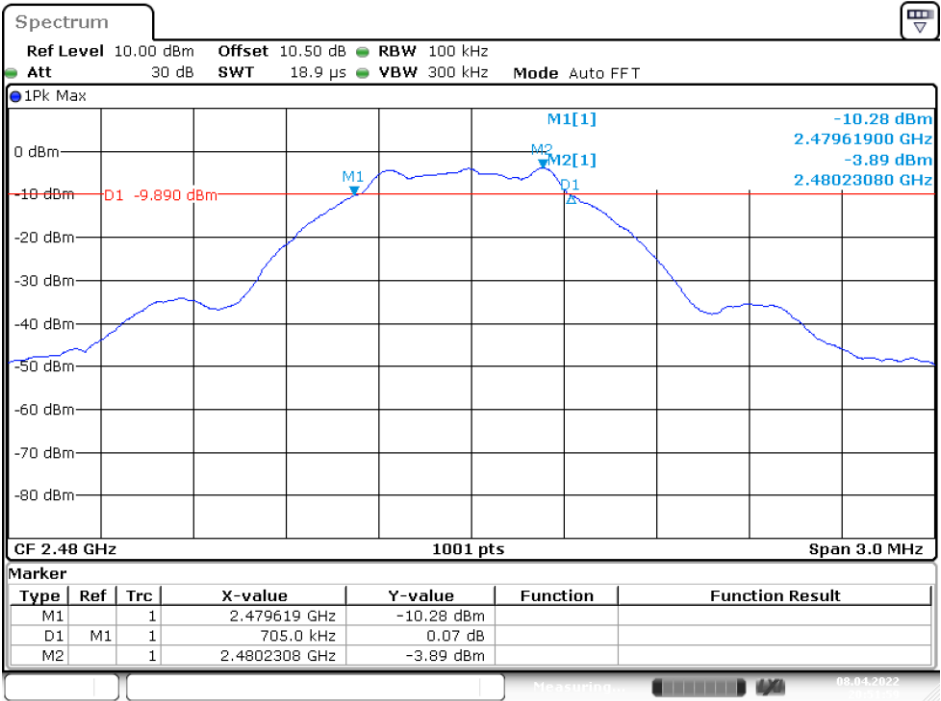
Low Channel



Middle Channel



High Channel



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10 FCC §15.247(b)(3) – Maximum Output Power

10.1 Applicable Standard

According to FCC §15.247(b) (3).

Systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

10.2 Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to measuring equipment.

10.3 Test Results

Maximum peak Conducted Output Power

Channel	Frequency	Maximum peak Conducted Output Power		Limit	Result
	(MHz)	(dBm)	(W)	(W)	
BLE(1M) Mode					
Low	2402	-3.31	0.0005	1	PASS
Middle	2440	-2.97	0.0005	1	PASS
High	2480	-2.75	0.0005	1	PASS

11 FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

11.1 Applicable Standard

According to FCC §15.247(d).

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

11.2 Test Procedure

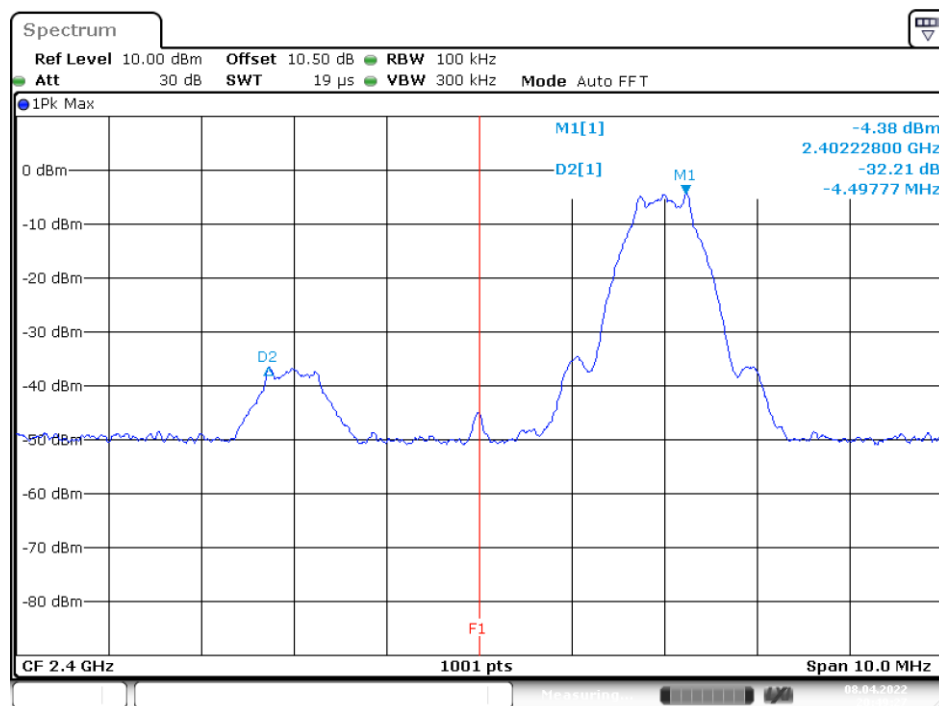
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

11.3 Test Results

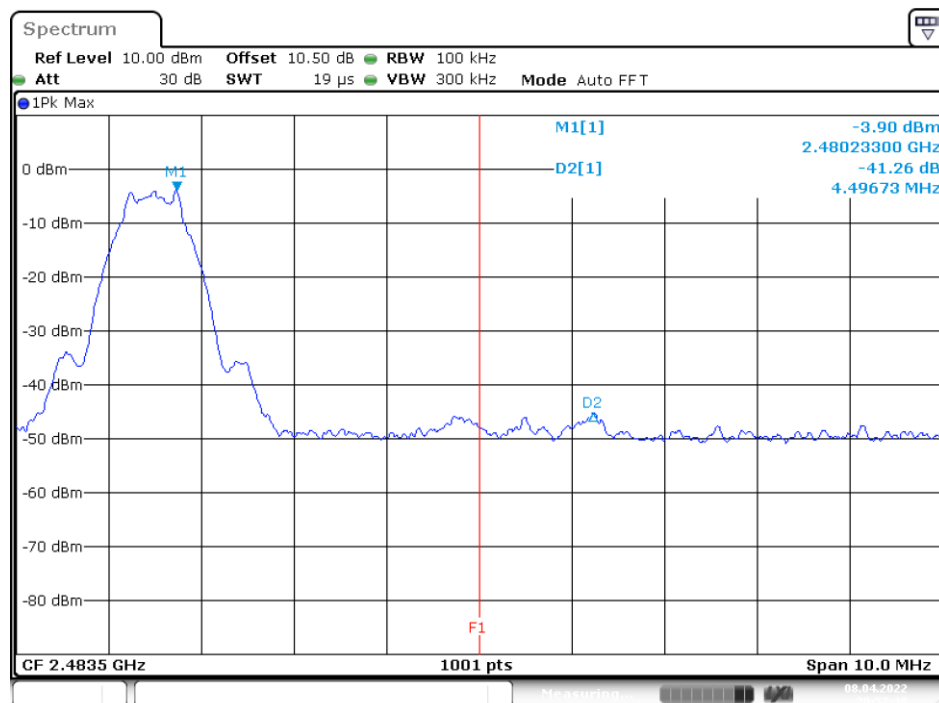
Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	32.21	≥ 20	PASS
High	2480	41.26	≥ 20	PASS

Please refer to the following plots

BLE(1M) Mode Band Edge, Left Side



Band Edge, Right Side



12 FCC §15.247(e) – Power Spectral Density

12.1 Applicable Standard

According to FCC §15.247(e).

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

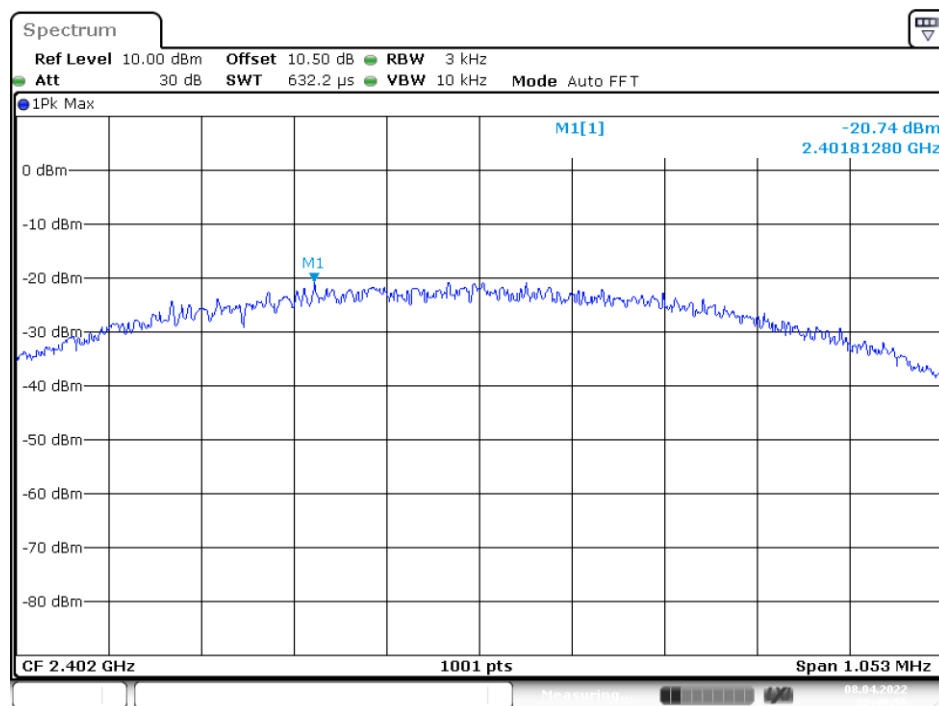
12.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE(1M) Mode				
Low	2402	-20.74	8	Compliance
Middle	2440	-20.38	8	Compliance
High	2480	-20.23	8	Compliance

Please refer to the following plots

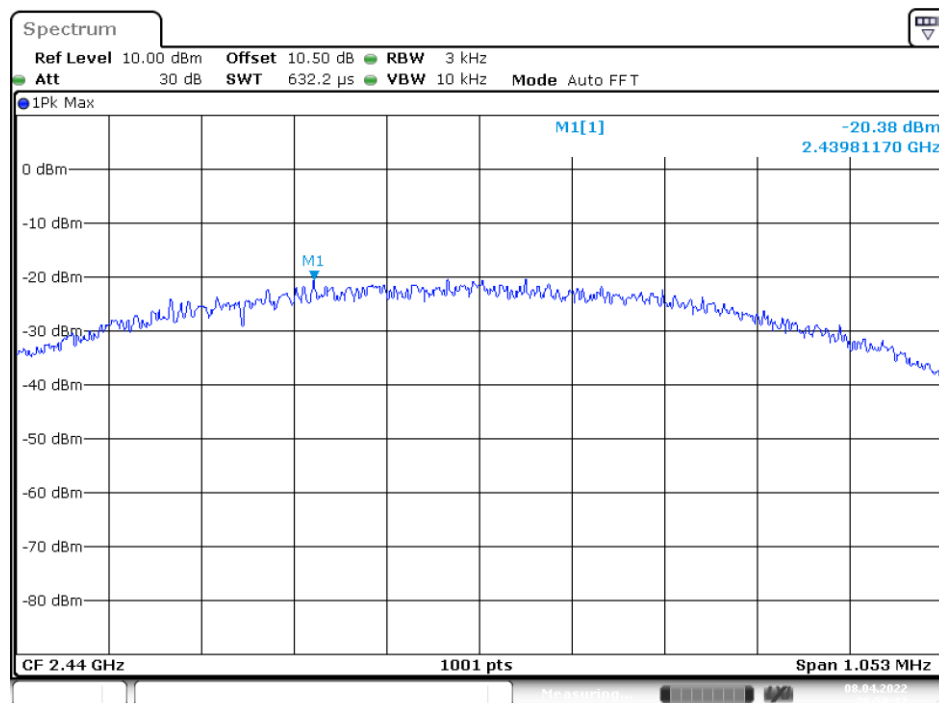
BLE(1M) Mode

Low Channel



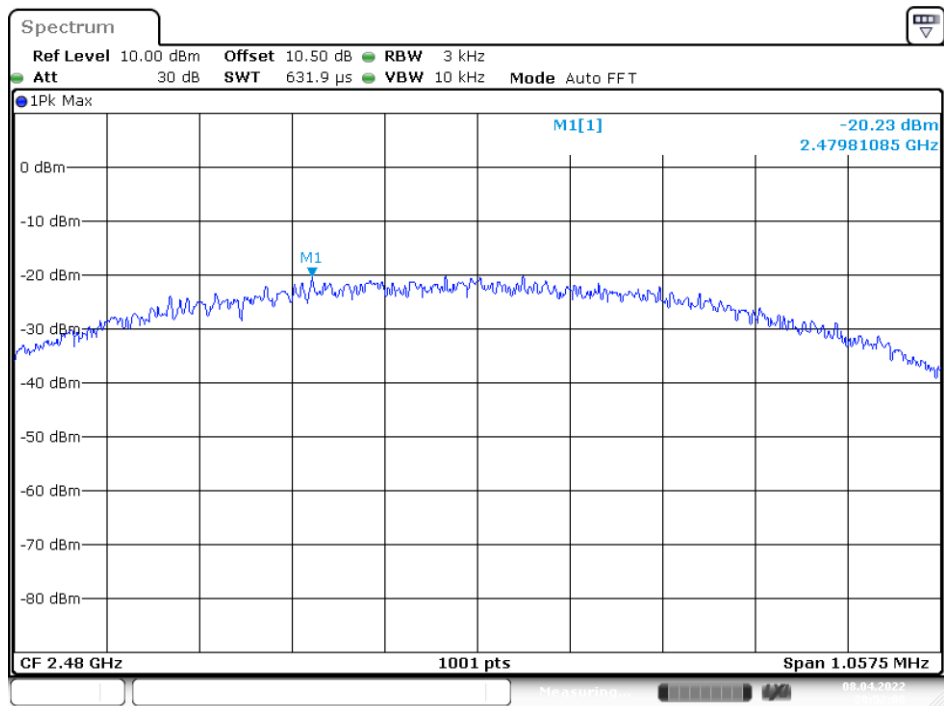
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Middle Channel



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High Channel



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***** END OF REPORT *****