

TEST REPORT

of

FCC CFR Title 47 Part 15 Subpart C

Product: **ECG & Respiration Box**
Brand: **AULISA**
Main Model: **GA-EB0001**
Series Model: **N/A**
Model Difference: **N/A**
FCC ID: **2AI5Q-EB0001**
FCC Rule Part: **§15.247, Cat: DTS**
Reference: **ANSI C63.10: 2013**
KDB 558074 D01 v05r02
Applicant: **Taiwan Aulisa Medical Devices Technologies, Inc**
Address: **6F-2, No. 3-1, YuanQu St., Nangang Dist., 115 Taipei City, Taiwan**

Test Performed by:



International Standards Laboratory Corp. LT Lab.

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No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan

Report No.: **ISL-24LR0164FCBLE**
Issue Date : **November 8, 2024**



FCC Registration Number: 487532

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein. According to customer agreement, the laboratory issues test reports based on the regulations or standards specifications, the measurement uncertainty is not considered in conformity decision rules. This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory Corp.

VERIFICATION OF COMPLIANCE

Applicant: Taiwan Aulisa Medical Devices Technologies, Inc
Equipment Under Test: ECG & Respiration Box
Brand: AULISA
Main Model: GA-EB0001
Series Model: N/A
Model Difference: N/A
FCC ID: 2AI5Q-EB0001
Date of Test: November 4, 2024 ~ November 8, 2024
Date of EUT Received: November 4, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC Part 15.247	Complied

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Prepared By: Gigi Yeh / Senior Engineer

Test By: Jason Chao
Jason Chao / Senior Engineer

Approved By: Jerry Liu
Jerry Liu / Manager

Version

Version No.	Date	Description
00	November 8, 2024	Initial creation of document

TABLE OF CONTENTS

1. General.....	6
1.1 DESCRIPTION OF EUT	6
1.2 SPECIAL ACCESSORIES.....	7
1.3 EQUIPMENT MODIFICATIONS	7
2. System Test Configuration.....	8
2.1 EUT CONFIGURATION.....	8
2.2 EUT EXERCISE	8
2.3 TEST PROCEDURE.....	8
2.4 CONFIGURATION OF TESTED SYSTEM.....	8
2.5 DUTY FACTOR	9
3. Summary of Test Results.....	11
4. Description of Test Modes.....	11
5. AC Line Conduced Emission Test.....	12
5.1 STANDARD APPLICABLE	12
5.2 MEASUREMENT PROCEDURE.....	12
5.3 MEASUREMENT RESULT.....	13
6. Peak Output Power Measurement	15
6.1 STANDARD APPLICABLE	15
6.2 MEASUREMENT PROCEDURE.....	15
6.3 MEASUREMENT RESULT.....	16
7. Radiated Spurious Emission Test.....	17
7.1 STANDARD APPLICABLE	17
7.2 MEASUREMENT PROCEDURE.....	17
7.3 FIELD STRENGTH CALCULATION	18
7.4 MEASUREMENT RESULT.....	19
8. 100kHz Bandwidth of Band Edges Measurement	31
8.1 STANDARD APPLICABLE	31
8.2 MEASUREMENT PROCEDURE.....	31
8.3 FIELD STRENGTH CALCULATION	31
8.4 MEASUREMENT RESULT.....	32
9. 6dB Bandwidth.....	40
9.1 STANDARD APPLICABLE	40
9.2 MEASUREMENT PROCEDURE.....	40
9.3 MEASUREMENT RESULT.....	40
10. Peak Power Spectral Density	44
10.1 STANDARD APPLICABLE	44
10.2 MEASUREMENT PROCEDURE.....	44
10.3 MEASUREMENT RESULT.....	44
11. Appendix	48
11.1 APPENDIX A: EQUIPMENT LIST	48
11.2 APPENDIX B: UNCERTAINTY OF MEASUREMENT.....	50

11.3	APPENDIX C: TEST SETUP	51
11.4	APPENDIX D: PHOTOGRAPHS OF SETUP	54
11.5	APPENDIX E: PHOTOGRAPHS OF EUT	59

1. General

1.1 Description of EUT

General Information	
Product Name:	Aulisa ECG & Respiration Module
Brand Name:	AULISA
Model Name:	GA-EM0001
Model Difference:	N/A
Power Supply:	3.7 Vdc from Battery
	Battery: Model: IP602035P1; Supplier: RPC
	Adaptor: Model: SINGOF-10U-050200 Supplier: FORTRON/SOURCE
Bluetooth Information	
BT Modular:	TI CC2642R1F
Bluetooth Version:	V5.2
Frequency Range:	2402 ~ 2480MHz
Max Output Power:	2.241dBm
Channel number:	40 channels
Modulation type:	GFSK
Product HW Version:	EM0001_MAIN Rev.1.2 2024/05/24
Product SW Version:	Android 3.2.4
Product FW Version:	V1.0.0
Test SW Version:	SmartRF Studio 7 ver.2.17.0
RF power setting:	Default

	Antenna Type	Brand	Model	Peak Gain	Frequency Range	Connector Type
1	Chip Antenna	TDK	ANT016008LCS2442MA2	2.5dBi	2.4GHz	--

1.2 Special Accessories

Not available for this EUT intended for grant.

1.3 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 AC Line Conducted Emissions

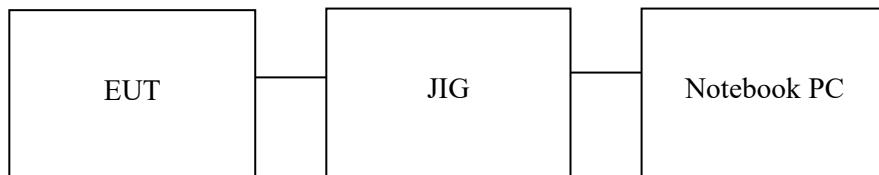
The EUT is placed on a turn table which is 0.8 m above ground plane. According to ANSI C63.10 and RSS-Gen. AC Line Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR 16-1-1 Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m/1.5m (Frequency above 1GHz) above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to ANSI C63.10.

2.4 Configuration of Tested System

Configuration of Tested System (Fixed channel)



Equipment Used in Tested System

Item	Equipment	Brand	Model	S/N	Data Cable	Power Cord
1	Notebook PC	hp	ProBook 440G1	N/A	N/A	2m
2	JIG	N/A	N/A	N/A	1.5m	N/A

2.5 Duty factor

Mode	ON time (ms)	Total time (ms)	Duty Cycle	Duty Factor	1/Ton	VBW (kHz)
BLE (1M)	10	10	100%	0	0.1	0.1
BLE (2M)	10	10	100%	0	0.1	0.1

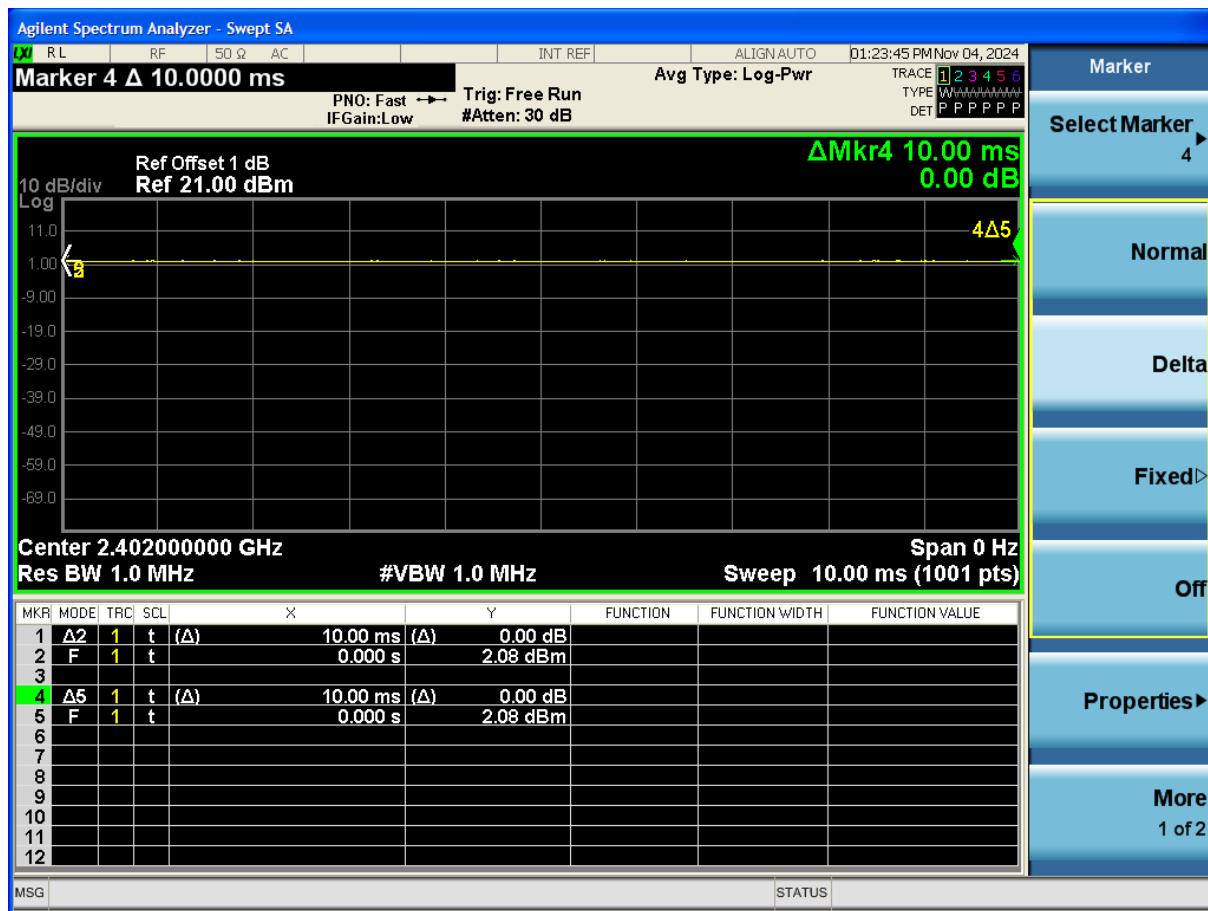
If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

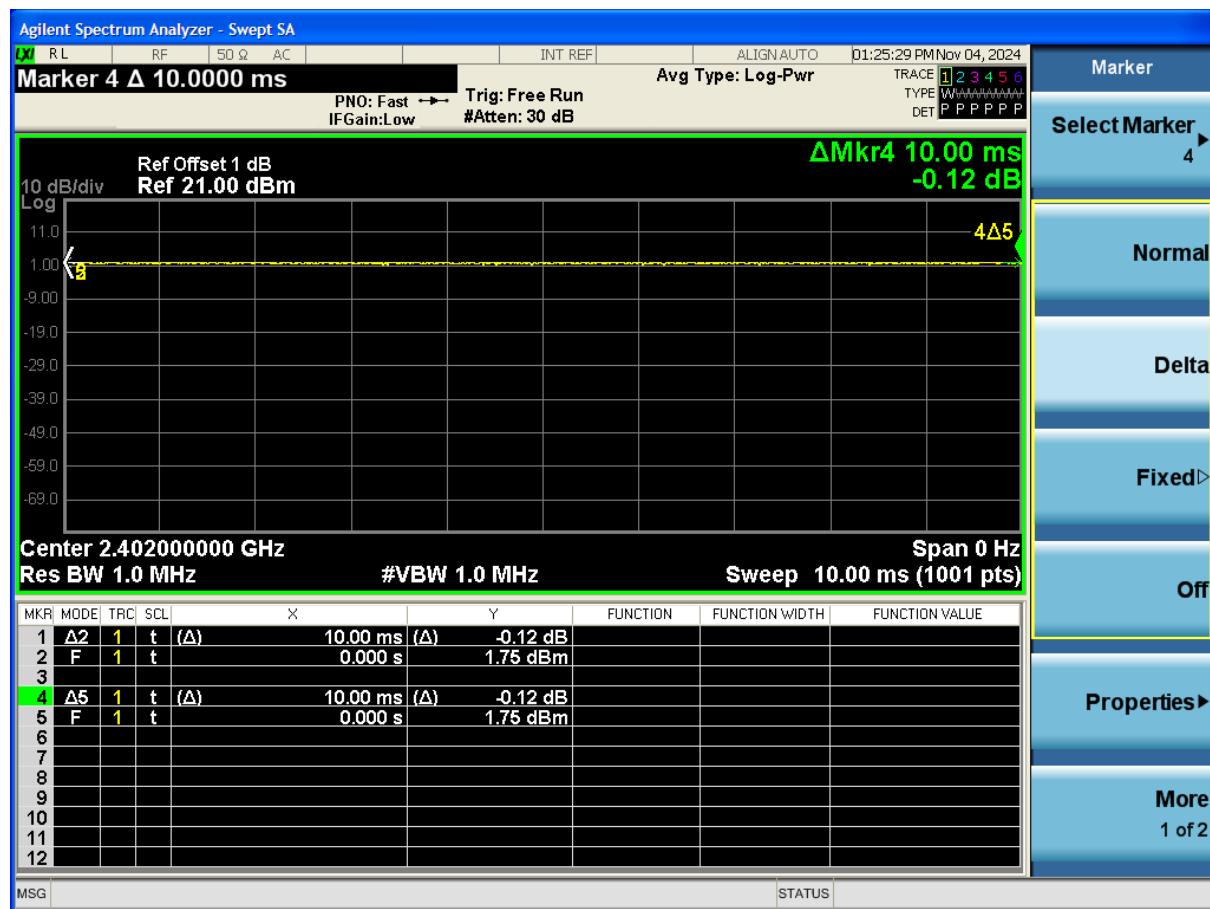
The output power = measured power + duty factor

For frequency above 1GHz, the video bandwidth setting for average detector: $VBW \geq 1/Ton$

Test Data: BLE Duty 1M



Test Data: BLE Duty 2M



3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3), (4)	Peak Output Power/ EIRP	Compliant
§15.247(a)(2)	6dB & 99% Power Bandwidth	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edges	Compliant
§15.247(d)	Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

4. Description of Test Modes

The EUT has been tested under engineering operating condition.

Test program used to control the EUT for staying in continuous transmitting mode is programmed.

BLE:

Channel low (2402MHz), mid (2442MHz), (2480MHz) with each modulation were chosen for full testing.

5. AC Line Conduced Emission Test

5.1 Standard Applicable

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

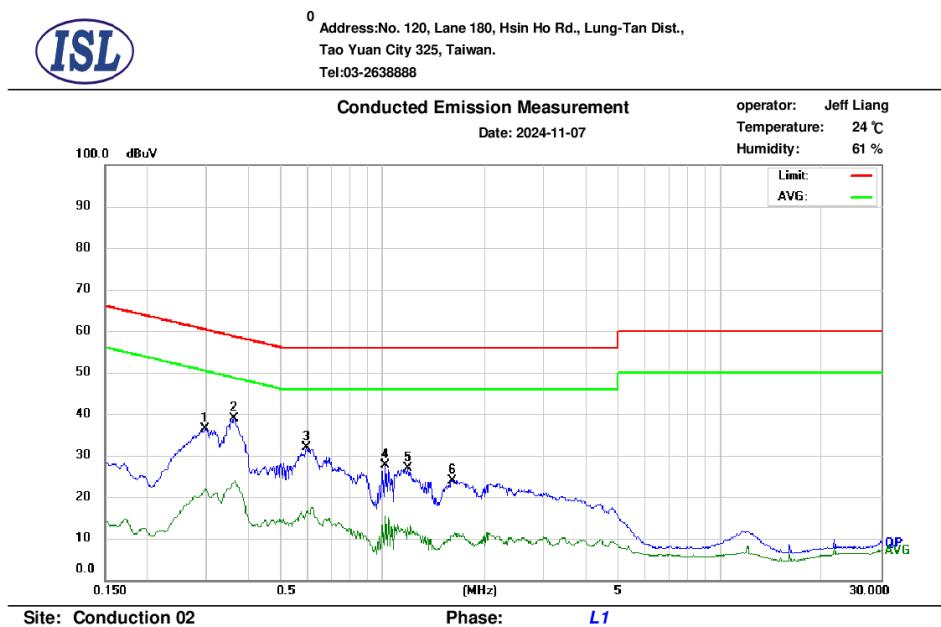
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.2 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.
4. Both 120V & 240V have been verified, and 120V/60Hz was defined as the worst-case and record in the report.

5.3 Measurement Result

- Line



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.296	26.77	12.15	9.69	36.46	60.35	-23.89	21.84	50.35	-28.51
2*	0.361	29.20	13.93	9.69	38.89	58.69	-19.80	23.62	48.69	-25.07
3	0.593	22.06	6.73	9.70	31.76	56.00	-24.24	16.43	46.00	-29.57
4	1.018	17.96	5.64	9.72	27.68	56.00	-28.32	15.36	46.00	-30.64
5	1.187	17.12	2.78	9.73	26.85	56.00	-29.15	12.51	46.00	-33.49
6	1.610	14.16	0.90	9.75	23.91	56.00	-32.09	10.65	46.00	-35.35

Note:

Margin = QP/AVG Emission - Limit

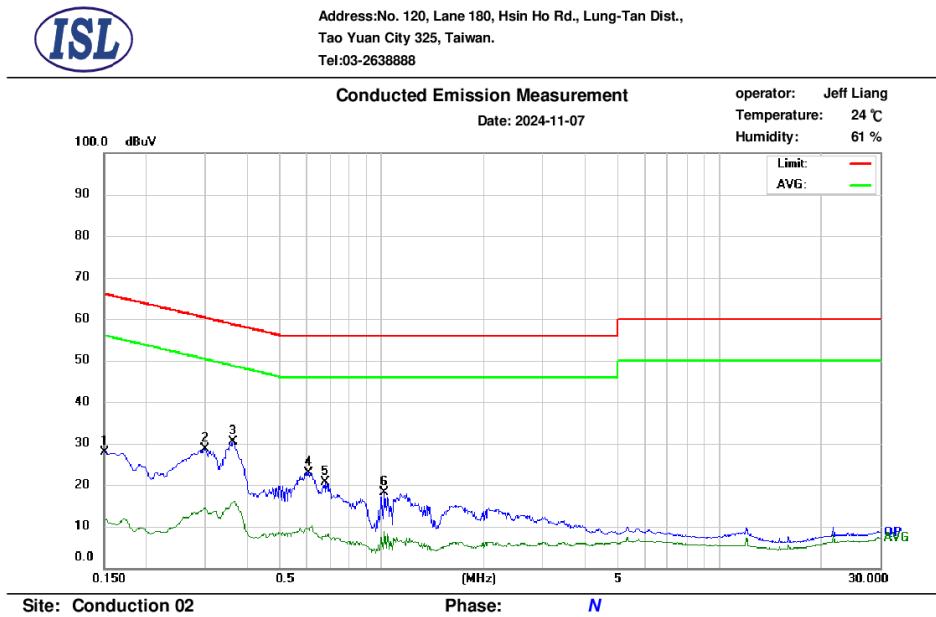
QP/AVG Emission = QP_R/AVG_R + Correct Factor

Correct Factor = LISN Loss + Cable Loss

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.

If peak data can pass, it will be shown in “QP/AVG Correct” column, if not, QP/AVG data will instead.

- Neutral



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.151	18.19	1.99	9.70	27.89	65.96	-38.07	11.69	55.96	-44.27
2	0.298	18.89	4.75	9.69	28.58	60.28	-31.70	14.44	50.28	-35.84
3*	0.361	20.72	6.25	9.69	30.41	58.69	-28.28	15.94	48.69	-32.75
4	0.605	13.21	-0.38	9.70	22.91	56.00	-33.09	9.32	46.00	-36.68
5	0.676	10.88	-1.88	9.70	20.58	56.00	-35.42	7.82	46.00	-38.18
6	1.018	8.47	-0.93	9.72	18.19	56.00	-37.81	8.79	46.00	-37.21

Note:

Margin = QP/AVG Emission - Limit

QP/AVG Emission = QP_R/AVG_R + Correct Factor

Correct Factor = LISN Loss + Cable Loss

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.

If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead.

6. Peak Output Power Measurement

6.1 Standard Applicable

According to §15.247

(3) For 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.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, 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 (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

6.2 Measurement Procedure

1. Place the EUT on the table 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 the power meter or spectrum analyzer with proper instrument's parameters.
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

6.3 Measurement Result

Peak Power

Mode	Freq. (MHz)	Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
BLE (1M)	2402	2.241	-----	2.241	30
	2442	1.995	-----	1.995	30
	2480	1.743	-----	1.743	30

Peak Power

Mode	Freq. (MHz)	Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
BLE (2M)	2402	2.234	-----	2.234	30
	2442	1.956	-----	1.956	30
	2480	1.649	-----	1.649	30

7. Radiated Spurious Emission Test

7.1 Standard Applicable

According to §15.247(d), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

7.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m/1.5m above ground plane in 966 chamber.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

Test receiver setting	: Blew 1GHz
Detector	: Average (9kHz – 90kHz, 110kHz – 90kHz), Quasi-Peak
Bandwidth	: 200Hz, 120kHz
Test spectrum setting	: Above 1GHz
Peak	: RBW=1MHz, VBW \geq 3*RBW, Sweep=auto
Average	: RBW=1MHz, VBW \geq 1/T _{on} , Sweep=auto

7.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Remark:

<1GHz

1. No further spurious emissions detected from the lowest internal frequency and 30MHz.
2. Measuring frequencies from the lowest internal frequency to the 1GHz.
3. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument detector setting 9-90kHz/110-490kHz using PK/AV and other Frequency Band using PK/QP
4. Measurement result within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

>1GHz

- 5 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 6 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 7 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

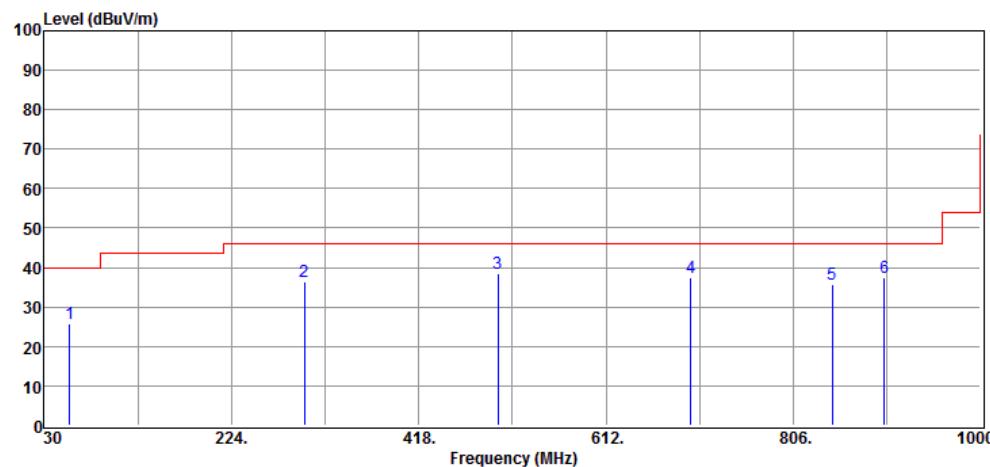
7.4 Measurement Result

7.4.1 Radiated Spurious Emission Measurement Result (below 1GHz)

(worse mode: BLE 1M)

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Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2024-11-05

Project Number. : 24LR0164 Temp.(°C)/RH(%) : 24/60
Test Mode : BLE low ch. TX Tested by : Jason Chao



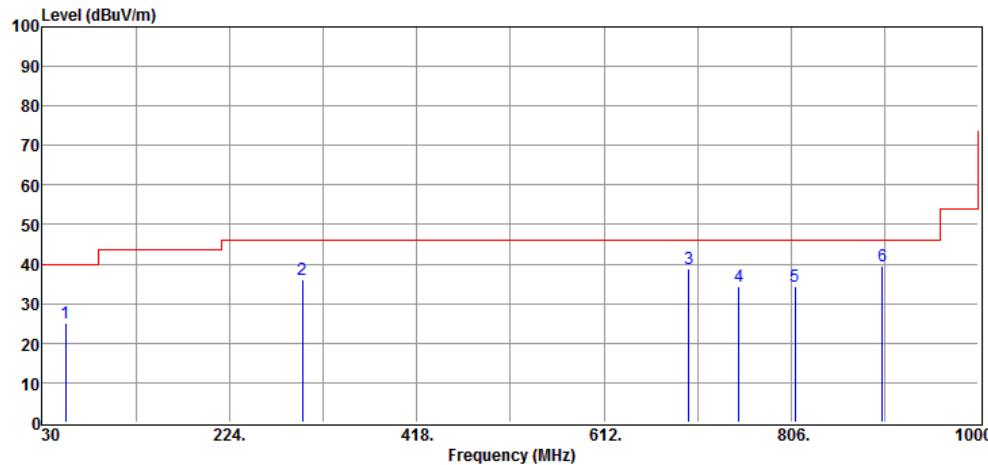
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
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1	56.19	34.26	-8.59	25.67	40.00	-14.33	Peak	VERTICAL
2	299.66	44.06	-7.71	36.35	46.00	-9.65	Peak	VERTICAL
3	500.45	41.14	-2.76	38.38	46.00	-7.62	Peak	VERTICAL
4	700.27	35.90	1.50	37.40	46.00	-8.60	Peak	VERTICAL
5	846.74	31.83	3.84	35.67	46.00	-10.33	Peak	VERTICAL
6	900.09	33.15	4.30	37.45	46.00	-8.55	Peak	VERTICAL

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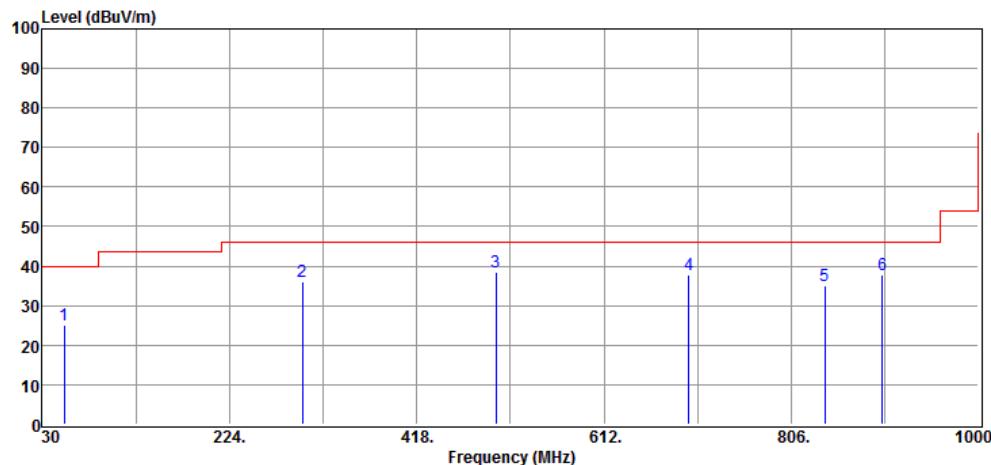


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	54.25	33.66	-8.46	25.20	40.00	-14.80	Peak	HORIZONTAL
2	299.66	43.83	-7.71	36.12	46.00	-9.88	Peak	HORIZONTAL
3	700.27	37.48	1.50	38.98	46.00	-7.02	Peak	HORIZONTAL
4	751.68	31.85	2.65	34.50	46.00	-11.50	Peak	HORIZONTAL
5	809.88	31.17	3.27	34.44	46.00	-11.56	Peak	HORIZONTAL
6	900.09	35.06	4.30	39.36	46.00	-6.64	Peak	HORIZONTAL

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Test Mode : BLE mid ch. TX Tested by : Jason Chao



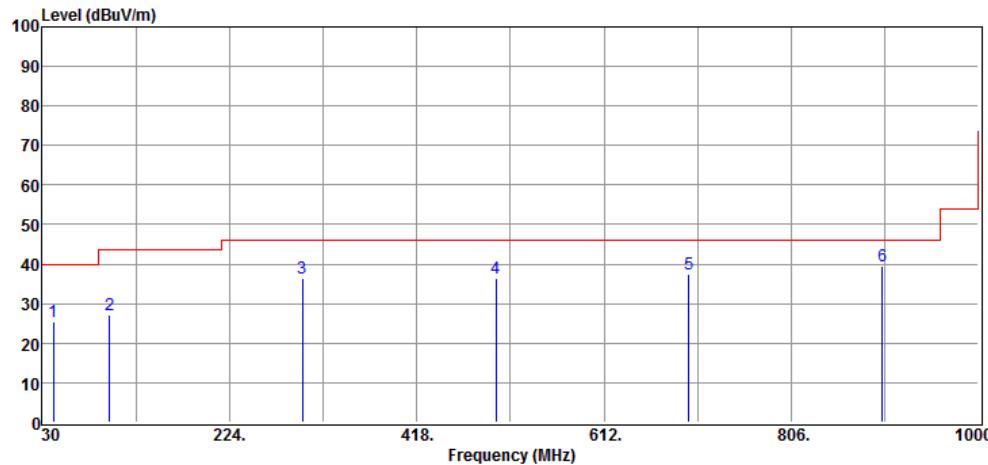
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
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1	53.28	33.32	-8.35	24.97	40.00	-15.03	Peak	VERTICAL
2	299.66	43.89	-7.71	36.18	46.00	-9.82	Peak	VERTICAL
3	500.45	41.09	-2.76	38.33	46.00	-7.67	Peak	VERTICAL
4	700.27	36.27	1.50	37.77	46.00	-8.23	Peak	VERTICAL
5	840.92	31.34	3.72	35.06	46.00	-10.94	Peak	VERTICAL
6	900.09	33.43	4.30	37.73	46.00	-8.27	Peak	VERTICAL

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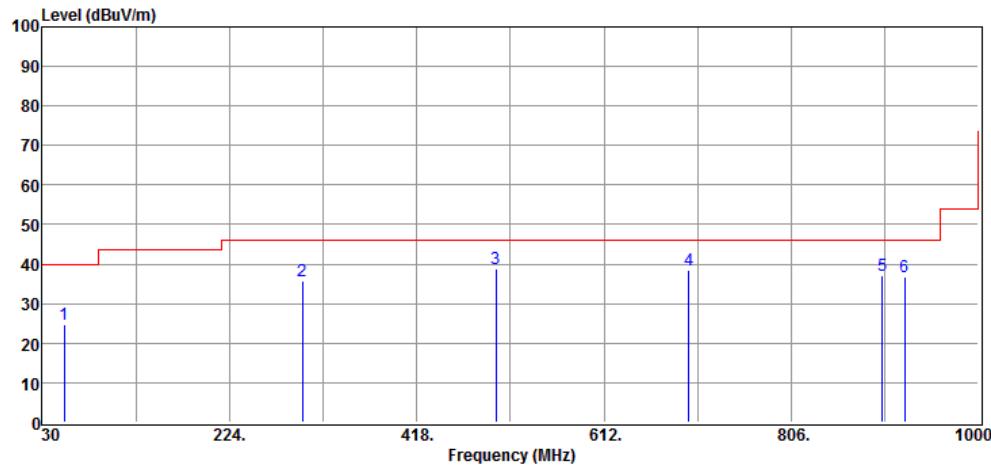
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
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1	41.64	34.56	-9.20	25.36	40.00	-14.64	Peak	HORIZONTAL
2	99.84	40.64	-13.44	27.20	43.50	-16.30	Peak	HORIZONTAL
3	299.66	44.17	-7.71	36.46	46.00	-9.54	Peak	HORIZONTAL
4	500.45	39.14	-2.76	36.38	46.00	-9.62	Peak	HORIZONTAL
5	700.27	35.86	1.50	37.36	46.00	-8.64	Peak	HORIZONTAL
6	900.09	35.12	4.30	39.42	46.00	-6.58	Peak	HORIZONTAL

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Test Mode : BLE high ch. TX Tested by : Jason Chao



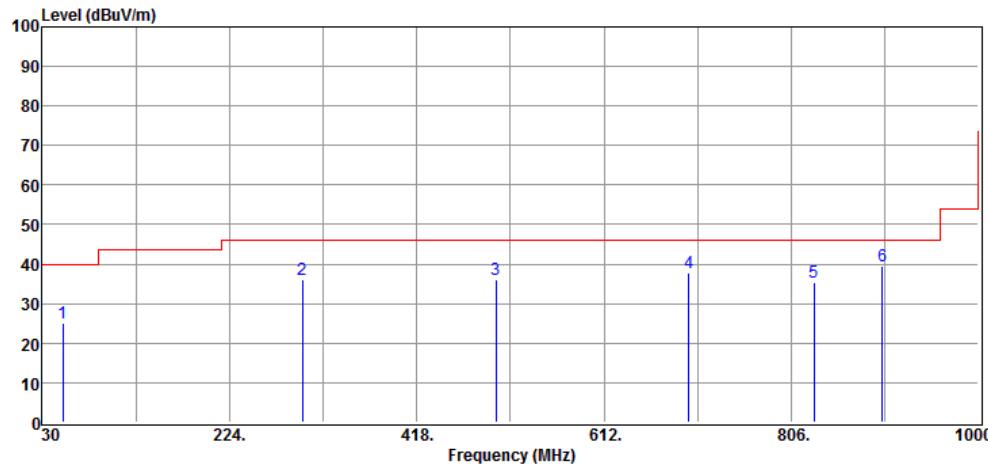
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
----	----------	--------------	-------------	--------------	--------------	-----------	--------	---------

1	53.28	33.11	-8.35	24.76	40.00	-15.24	Peak	VERTICAL
2	299.66	43.48	-7.71	35.77	46.00	-10.23	Peak	VERTICAL
3	500.45	41.44	-2.76	38.68	46.00	-7.32	Peak	VERTICAL
4	700.27	36.83	1.50	38.33	46.00	-7.67	Peak	VERTICAL
5	900.09	32.78	4.30	37.08	46.00	-8.92	Peak	VERTICAL
6	923.37	31.64	4.96	36.60	46.00	-9.40	Peak	VERTICAL

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Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE high ch. TX Tested by : Jason Chao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	51.34	33.47	-8.37	25.10	40.00	-14.90	Peak	HORIZONTAL
2	299.66	43.90	-7.71	36.19	46.00	-9.81	Peak	HORIZONTAL
3	500.45	38.98	-2.76	36.22	46.00	-9.78	Peak	HORIZONTAL
4	700.27	36.37	1.50	37.87	46.00	-8.13	Peak	HORIZONTAL
5	829.28	31.95	3.35	35.30	46.00	-10.70	Peak	HORIZONTAL
6	900.09	35.35	4.30	39.65	46.00	-6.35	Peak	HORIZONTAL

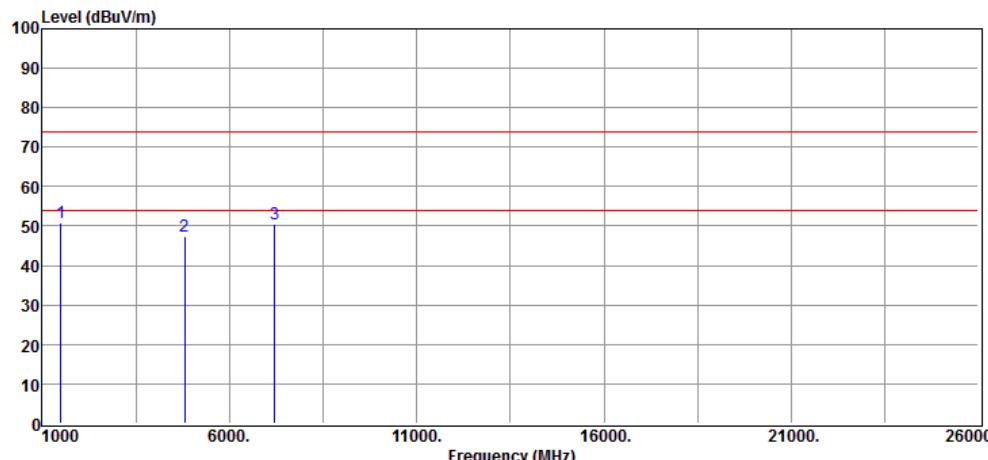
7.4.2 Radiated Spurious Emission Measurement Result (above1GHz)

(worse mode: BLE 1M)

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.(°C)/RH(%) : 24/60
Test Mode : BLE low ch. TX Tested by : Jason Chao

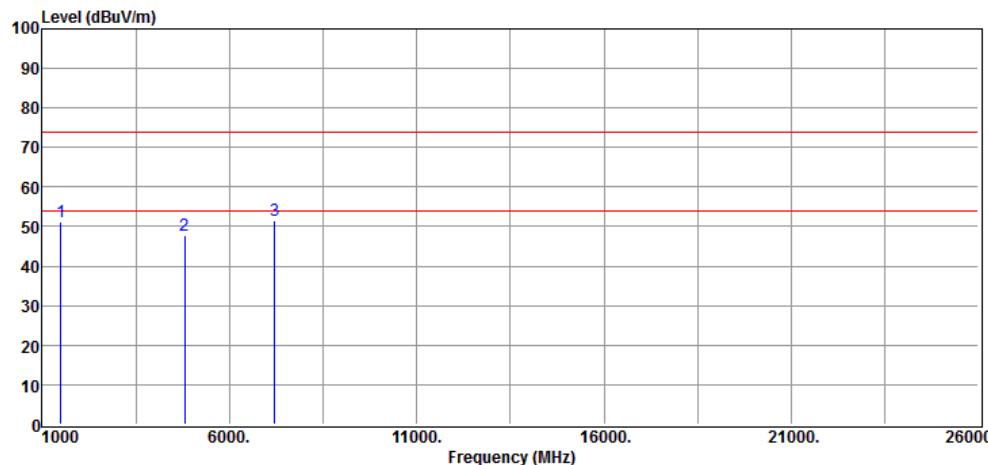


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	1500.00	54.34	-3.52	50.82	74.00	-23.18	Peak	VERTICAL
2	4804.00	39.52	7.90	47.42	74.00	-26.58	Peak	VERTICAL
3	7206.00	39.95	10.62	50.57	74.00	-23.43	Peak	VERTICAL

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE low ch. TX Tested by : Jason Chao

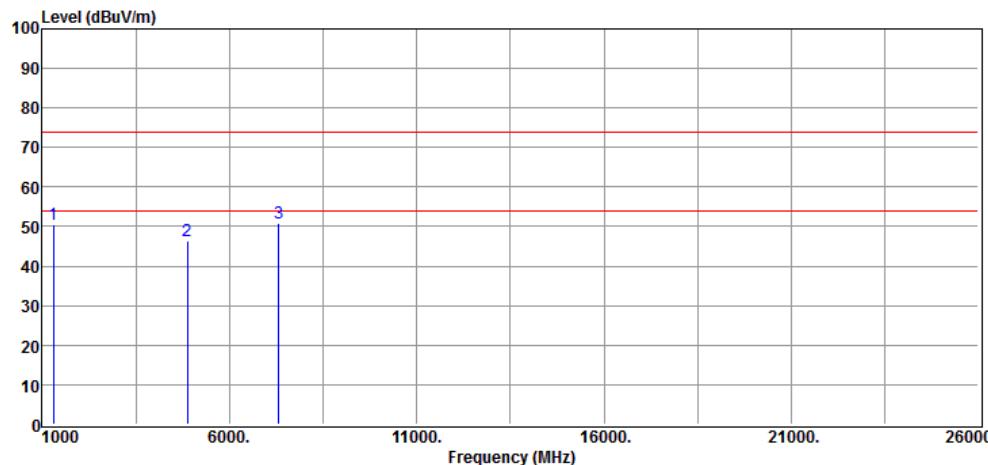


No	Freq MHz	Reading dB _{uV}	Factor dB/m	Level dB _{uV/m}	Limit dB _{uV/m}	Margin dB	Remark	Pol V/H
1	1500.00	54.82	-3.52	51.30	74.00	-22.70	Peak	HORIZONTAL
2	4804.00	40.03	7.90	47.93	74.00	-26.07	Peak	HORIZONTAL
3	7206.00	40.77	10.62	51.39	74.00	-22.61	Peak	HORIZONTAL

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE mid ch. TX Tested by : Jason Chao



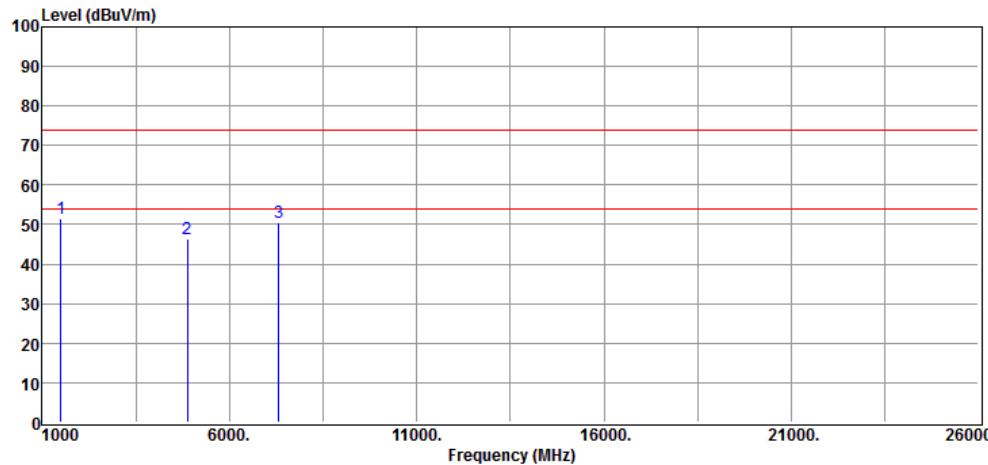
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
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1	1300.00	53.64	-2.98	50.66	74.00	-23.34	Peak	VERTICAL
2	4884.00	38.52	7.96	46.48	74.00	-27.52	Peak	VERTICAL
3	7326.00	40.21	10.65	50.86	74.00	-23.14	Peak	VERTICAL

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE mid ch. TX Tested by : Jason Chao



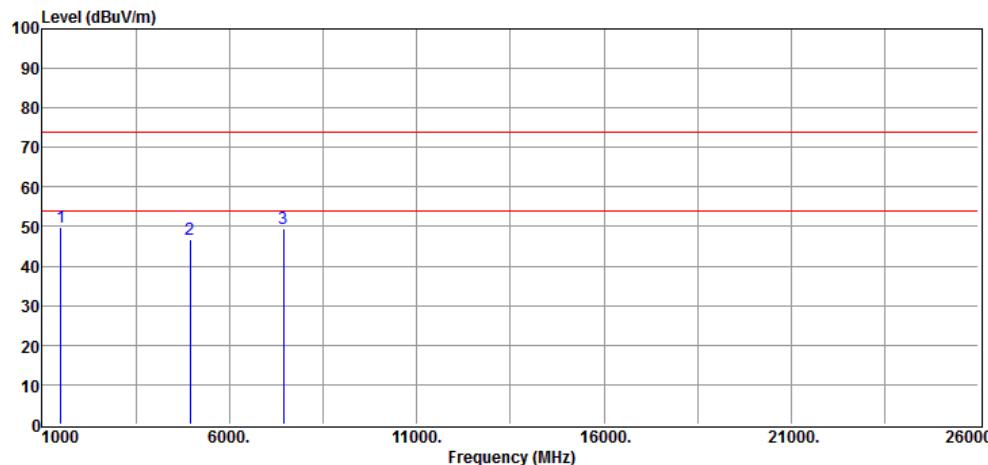
No	Freq MHz	Reading dB _{uV}	Factor dB/m	Level dB _{uV/m}	Limit dB _{uV/m}	Margin dB	Remark	Pol V/H
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1	1500.00	55.08	-3.52	51.56	74.00	-22.44	Peak	HORIZONTAL
2	4884.00	38.45	7.96	46.41	74.00	-27.59	Peak	HORIZONTAL
3	7326.00	39.88	10.65	50.53	74.00	-23.47	Peak	HORIZONTAL

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE high ch. TX Tested by : Jason Chao

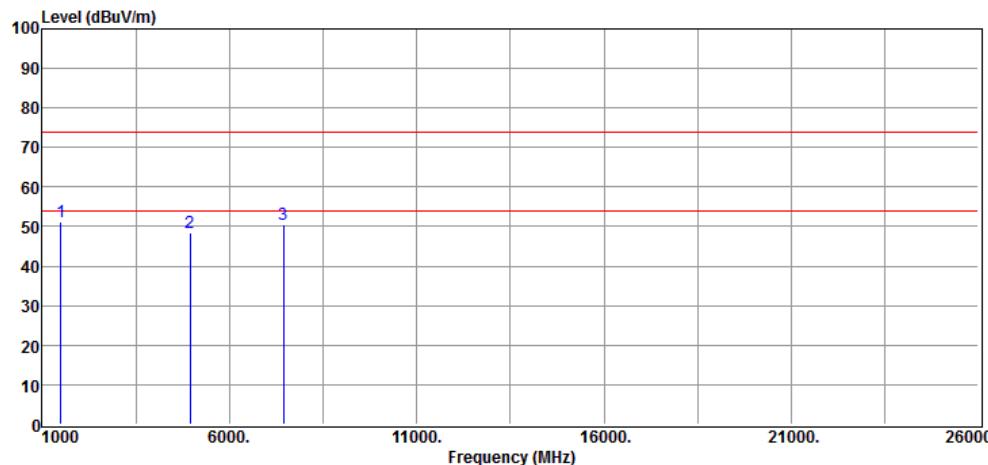


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	1500.00	53.47	-3.52	49.95	74.00	-24.05	Peak	VERTICAL
2	4960.00	38.71	8.06	46.77	74.00	-27.23	Peak	VERTICAL
3	7440.00	38.94	10.70	49.64	74.00	-24.36	Peak	VERTICAL

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE high ch. TX Tested by : Jason Chao



No	Freq MHz	Reading dB _{uV}	Factor dB/m	Level dB _{uV/m}	Limit dB _{uV/m}	Margin dB	Remark	Pol V/H
1	1500.00	54.68	-3.52	51.16	74.00	-22.84	Peak	HORIZONTAL
2	4960.00	40.49	8.06	48.55	74.00	-25.45	Peak	HORIZONTAL
3	7440.00	39.80	10.70	50.50	74.00	-23.50	Peak	HORIZONTAL

8. 100kHz Bandwidth of Band Edges Measurement

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. 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).

8.2 Measurement Procedure

1. Place the EUT on the table 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 the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as $RBW=1MHz$, $VBW \geq 3*RBW$ (for Peak); $VBW \geq 1/T_{on}$ (for Average), Sweep = auto.
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

8.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

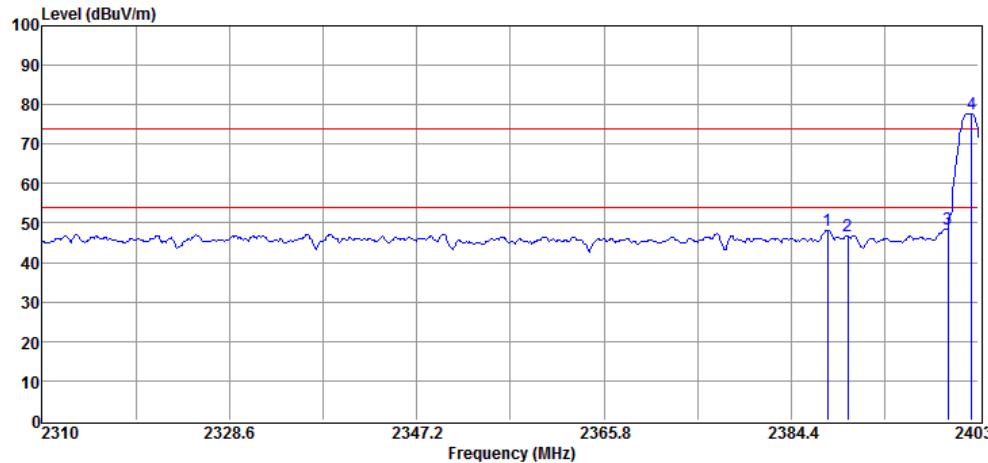
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

8.4 Measurement Result

International Standard Laboratory Corp.
Company Address: No.120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.(°C)/RH(%) : 24/60
Test Mode : BLE 1M low ch bandedge Tested by : Jason Chao



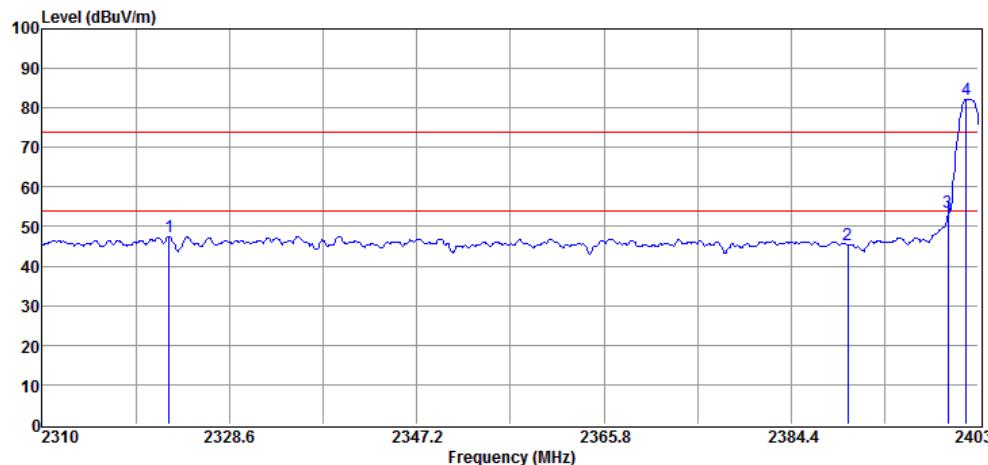
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2388.00	45.46	2.76	48.22	74.00	-25.78	Peak	VERTICAL
2	2390.00	44.04	2.72	46.76	74.00	-27.24	Peak	VERTICAL
3	2400.00	45.58	2.78	48.36	57.64	-9.28	Peak	VERTICAL
4	2402.34	74.79	2.85	77.64	-	F	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 1M low ch bandedge Tested by : Jason Chao



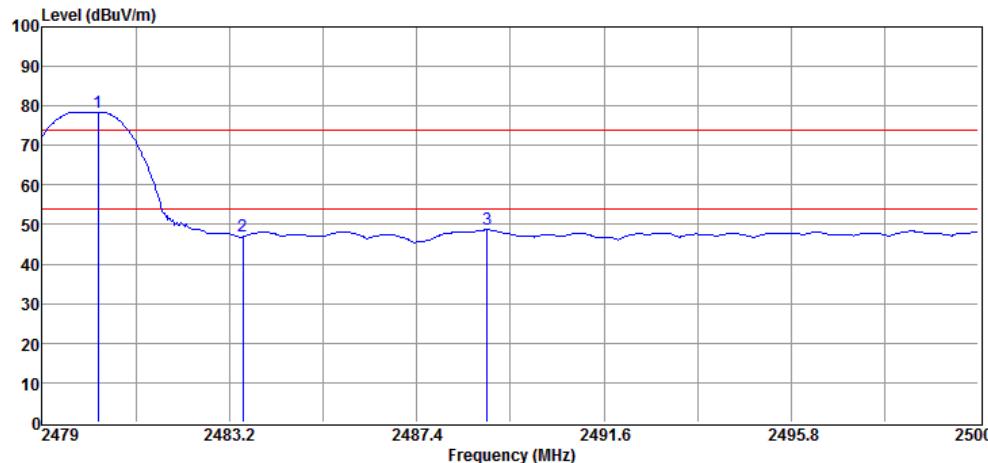
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2322.64	45.02	2.49	47.51	74.00	-26.49	Peak	HORIZONTAL
2	2390.00	42.61	2.72	45.33	74.00	-28.67	Peak	HORIZONTAL
3	2400.00	50.91	2.78	53.69	62.20	-8.51	Peak	HORIZONTAL
4	2401.77	79.35	2.85	82.20	-	F	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 1M high ch bandedge Tested by : Jason Chao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
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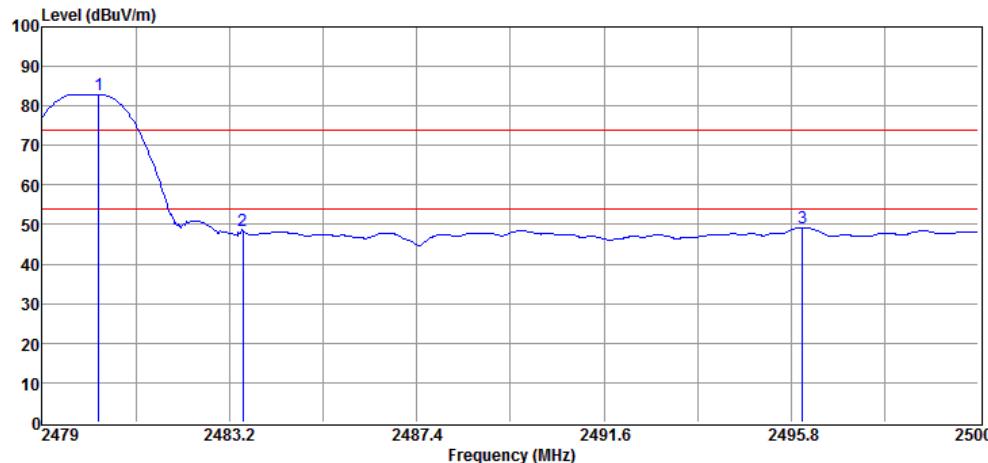
1	2480.25	75.11	3.36	78.47	-	F	Peak	VERTICAL
2	2483.50	43.65	3.32	46.97	74.00	-27.03	Peak	VERTICAL
3	2488.98	45.23	3.42	48.65	74.00	-25.35	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 1M high ch bandedge Tested by : Jason Chao



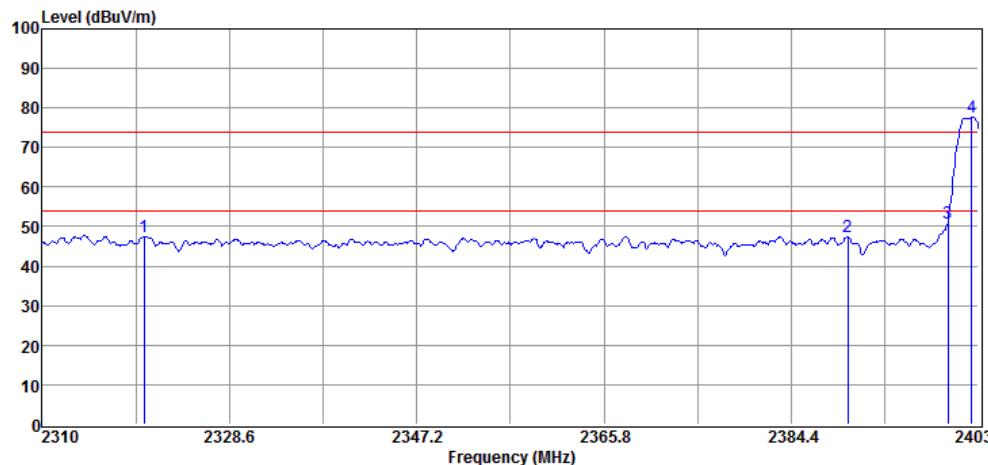
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2480.28	79.59	3.36	82.95	-	F	Peak	HORIZONTAL
2	2483.50	45.14	3.32	48.46	74.00	-25.54	Peak	HORIZONTAL
3	2496.05	45.70	3.48	49.18	74.00	-24.82	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 2M low ch bandedge Tested by : Jason Chao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
----	----------	--------------	-------------	--------------	--------------	-----------	--------	---------

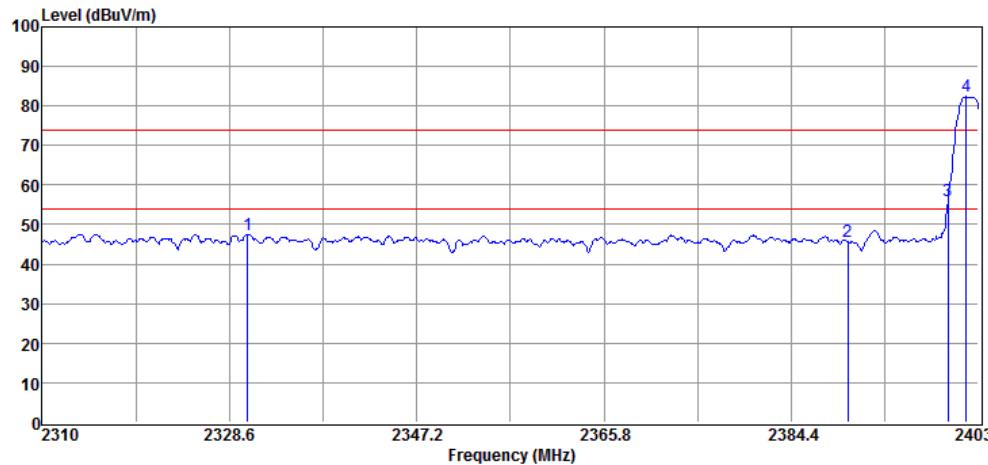
1	2320.17	45.11	2.48	47.59	74.00	-26.41	Peak	VERTICAL
2	2390.00	44.55	2.72	47.27	74.00	-26.73	Peak	VERTICAL
3	2400.00	47.91	2.84	50.75	57.56	-6.81	Peak	VERTICAL
4	2402.34	74.71	2.85	77.56	-	F	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 2M low ch bandedge Tested by : Jason Chao



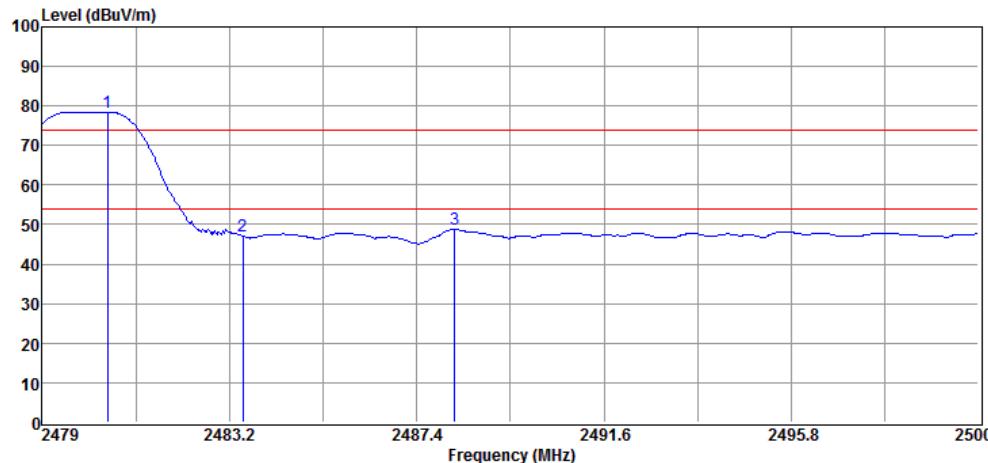
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2330.43	45.09	2.50	47.59	74.00	-26.41	Peak	HORIZONTAL
2	2390.00	42.98	2.72	45.70	74.00	-28.30	Peak	HORIZONTAL
3	2400.00	53.32	2.84	56.16	62.30	-6.14	Peak	HORIZONTAL
4	2401.77	79.45	2.85	82.30	-	F	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 2M high ch bandedge Tested by : Jason Chao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
----	----------	--------------	-------------	--------------	--------------	-----------	--------	---------

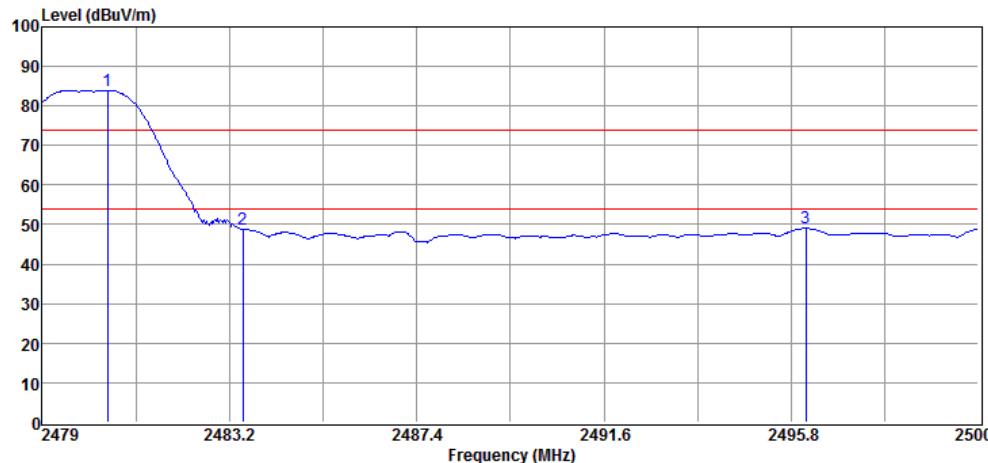
1	2480.48	75.14	3.36	78.50	-	F	Peak	VERTICAL
2	2483.50	43.79	3.32	47.11	74.00	-26.89	Peak	VERTICAL
3	2488.25	45.29	3.42	48.71	74.00	-25.29	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2024-11-05

Project Number. : 24LR0164 Temp.($^{\circ}$ C)/RH(%) : 24/60
Test Mode : BLE 2M high ch bandedge Tested by : Jason Chao



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
----	----------	--------------	-------------	--------------	--------------	-----------	--------	---------

1	2480.48	80.61	3.36	83.97	-	F	Peak	HORIZONTAL
2	2483.50	45.39	3.32	48.71	74.00	-25.29	Peak	HORIZONTAL
3	2496.13	45.54	3.48	49.02	74.00	-24.98	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

9. 6dB Bandwidth

9.1 Standard Applicable

According to §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 500kHz.

9.2 Measurement Procedure

1. Place the EUT on the table 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 the spectrum analyzer.
3. Set the spectrum analyzer as
RBW = 100 kHz.
VBW \geq 3 x RBW.
Detector = Peak.
Trace mode = max hold.
Sweep = auto couple.
Allow the trace to stabilize.
Use 6-dB BW measurement function
4. Repeat above procedures until all frequency measured were complete.

9.3 Measurement Result

BLE (1M)

Frequency (MHz)	6dB Bandwidth (MHz)	6dB BW Limit (kHz)
2402	0.707	> 500
2442	0.703	> 500
2480	0.727	> 500

BLE (2M)

Frequency (MHz)	6dB Bandwidth (MHz)	6dB BW Limit (kHz)
2402	1.396	> 500
2442	1.393	> 500
2480	1.465	> 500

Test Data: BLE 1M\2402MHz



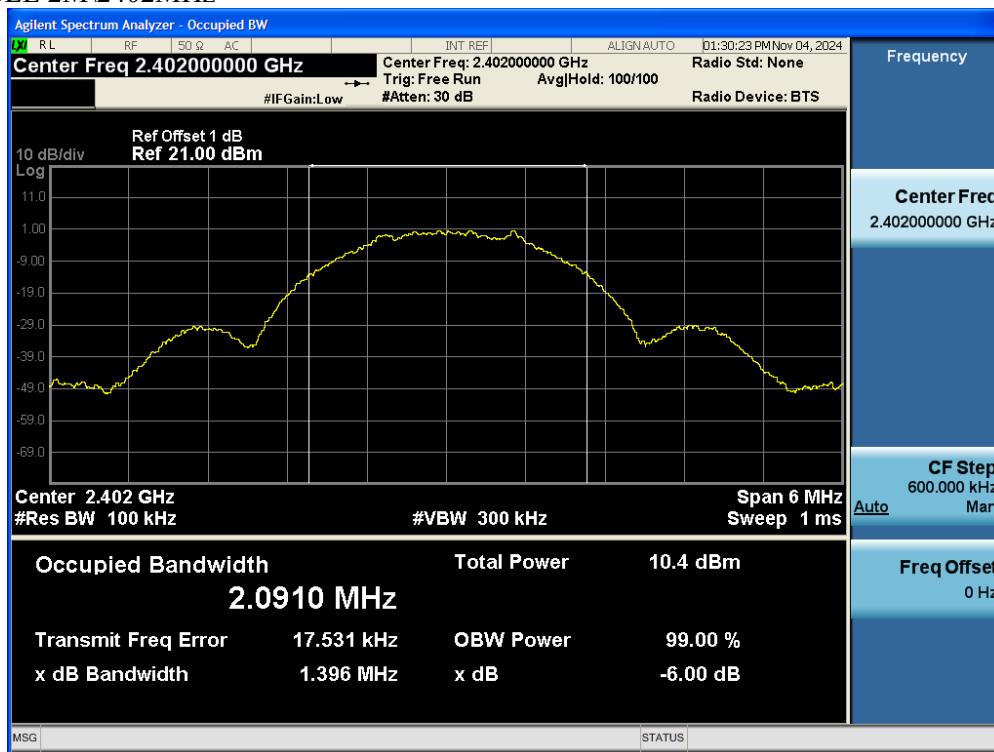
Test Data: BLE 1M\2442MHz



Test Data: BLE 1M\2480MHz



Test Data: BLE 2M\2402MHz



Test Data: BLE 2M\2442MHz



Test Data: BLE 2M\2480MHz



10. Peak Power Spectral Density

10.1 Standard Applicable

According to §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.

10.2 Measurement Procedure

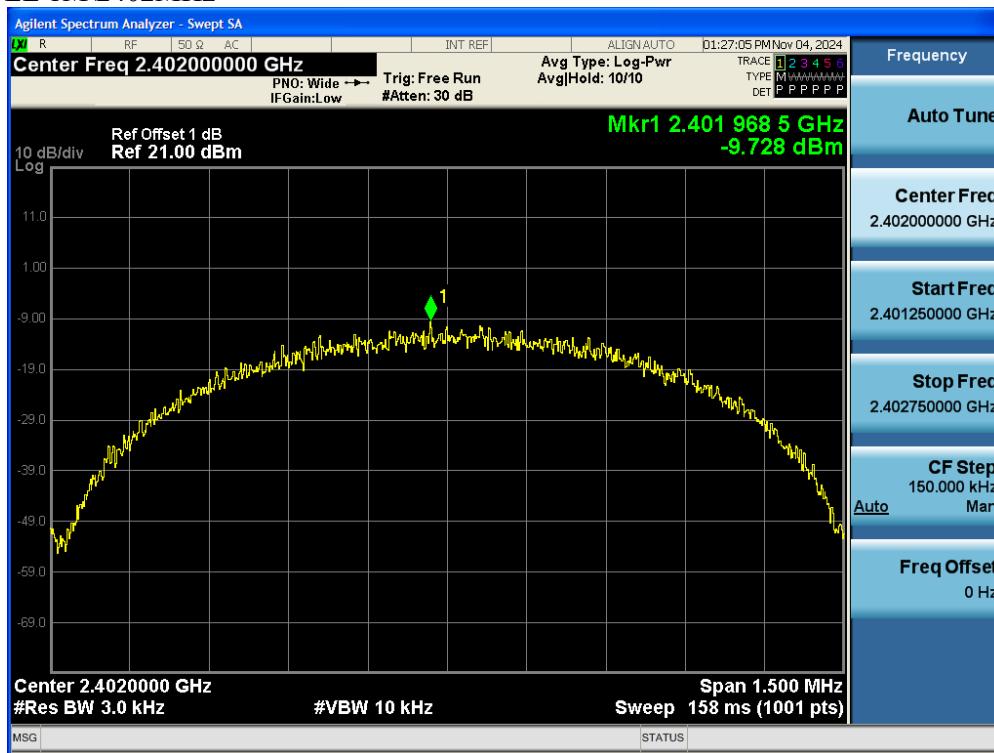
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW =3kHz, VBW = 10kHz, Set the span to 1.5 DTS bandwidth., Sweep=Auto
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

10.3 Measurement Result

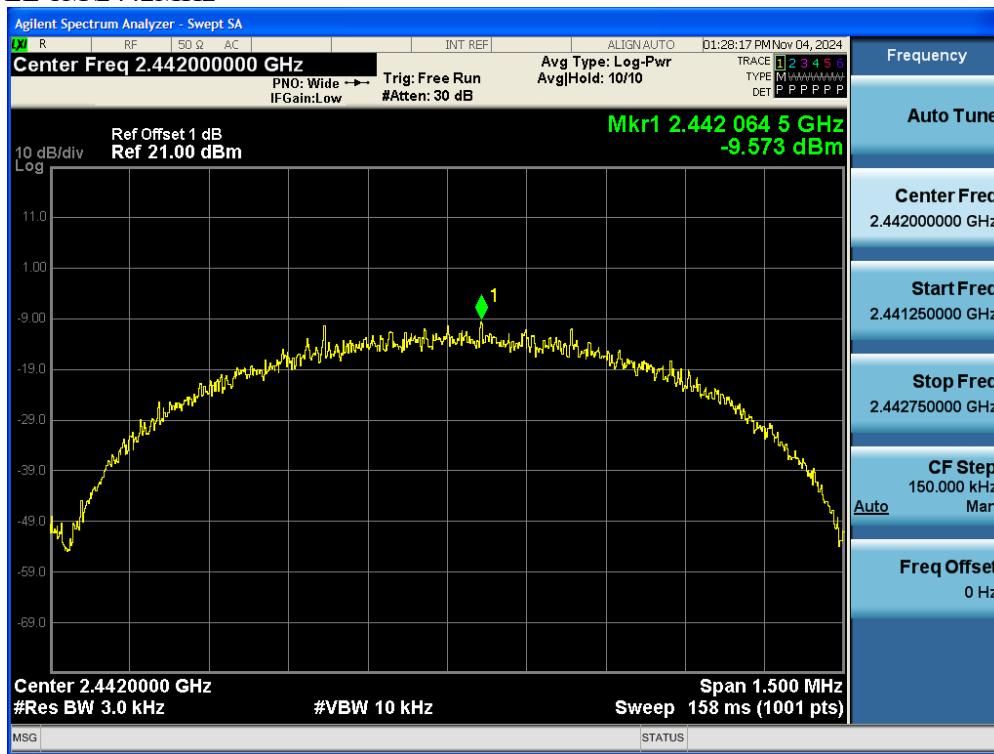
Mode	Freq. (MHz)	PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)
BLE (1M)	2402	-9.728	-----	-9.728	8
	2442	-9.573	-----	-9.573	8
	2480	-10.771	-----	-10.771	8

Mode	Freq. (MHz)	PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)
BLE (2M)	2402	-13.424	-----	-13.424	8
	2442	-13.348	-----	-13.348	8
	2480	-14.53	-----	-14.53	8

Test Data: BLE 1M\2402MHz



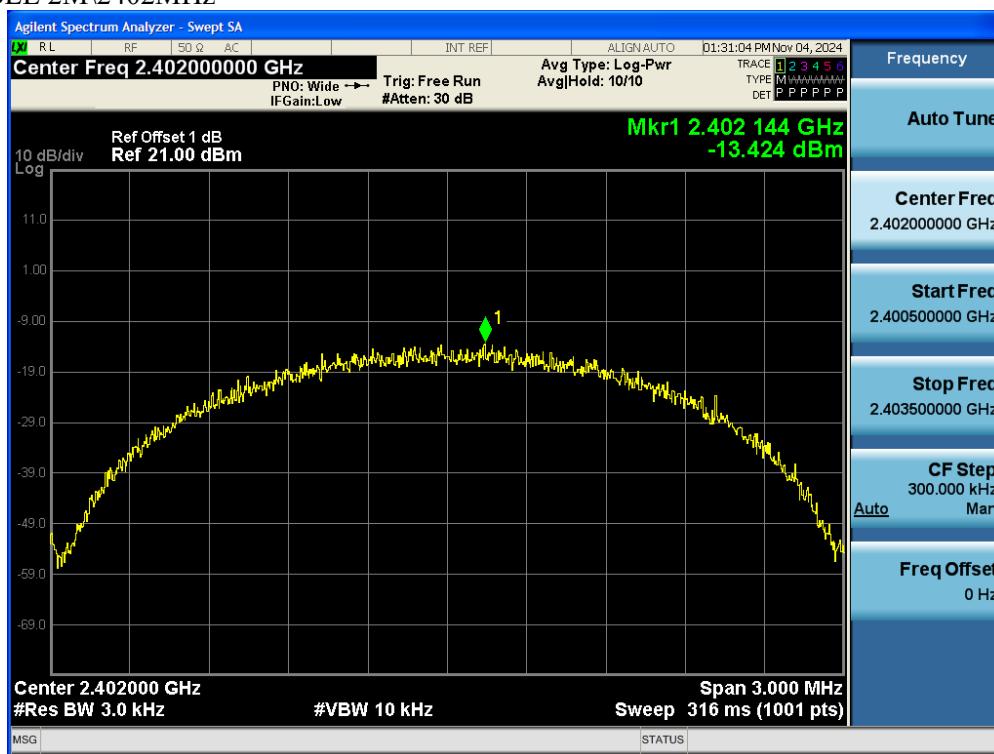
Test Data: BLE 1M\2442MHz



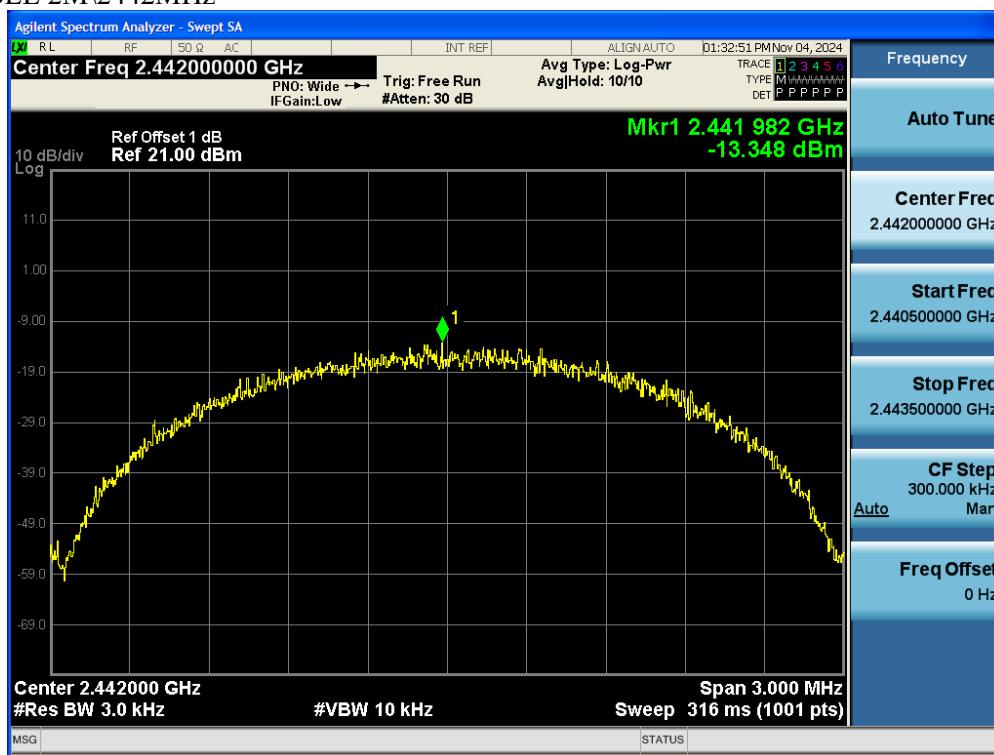
Test Data: BLE 1M\2480MHz



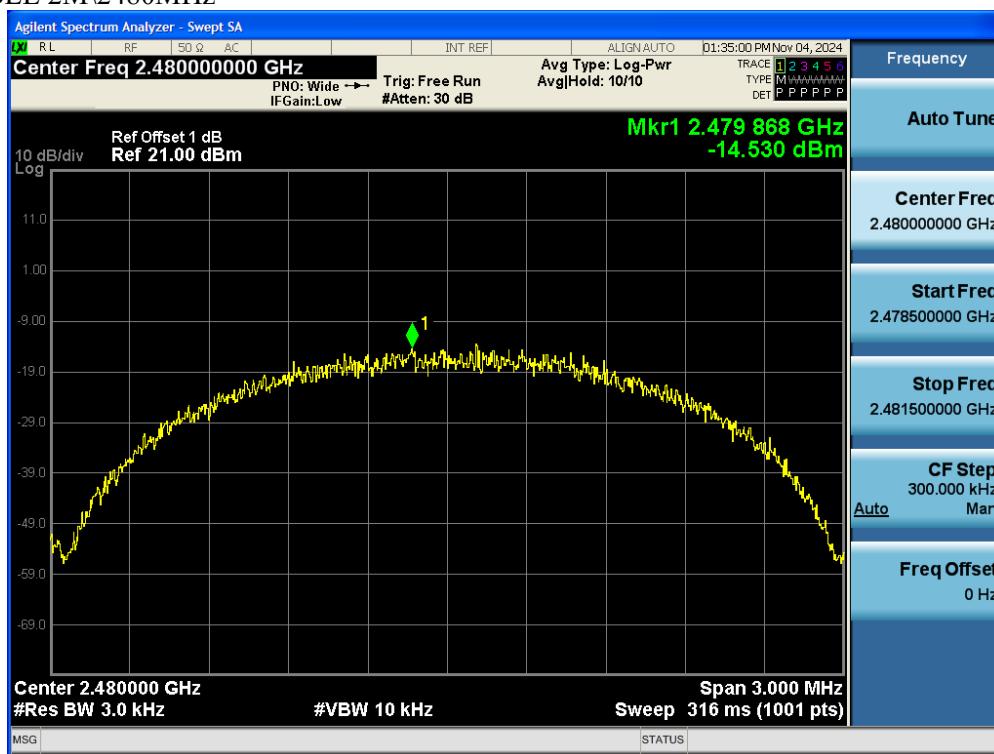
Test Data: BLE 2M\2402MHz



Test Data: BLE 2M\2442MHz



Test Data: BLE 2M\2480MHz



11. Appendix

11.1 Appendix A: Equipment List

Location	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 02	EMI Receiver 20	R&S	ESR7	101326	05/30/2024	05/30/2025
Conduction 02	Conduction 02-1 01 Cable	WOKEN	CFD 300-NL	Conduction 02 -1	09/25/2024	09/25/2025
Conduction 02	LISN 26	R&S	ENV216	102378	12/08/2023	12/08/2024
Conduction 02	LISN 21	R&S	ENV216	101476	07/27/2024	07/27/2025
Conduction 02	ISN T8 CAT6A 02	SCHWARZBECK	NTFM 8158	NTFM 8158-00370	07/03/2024	07/03/2025
Conduction 02	ISN T4 07	TESEQ	ISN T400A	30449	06/26/2024	06/26/2025
Conduction 02	ISN T8 10	TESEQ	ISN T800	42773	07/02/2024	07/02/2025
Conduction 02	CDN ISN ST08A 01	TESEQ	CDN ISN ST08A	43352	09/06/2024	09/06/2025
Conduction 02	Capacitive Voltage Probe 01	SCHAFFNER	CVP 2200A	18711	02/05/2024	02/05/2025
Conduction 02	Current Probe 01	SCHAFFNER	SMZ 11	18030	01/30/2024	01/30/2025

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Chamber 19	Spectrum analyzer	R&S	FSV40	101919	07/13/2024	07/13/2025
Chamber 19	EMI Receiver	R&S	ESR3	102461	05/08/2024	05/08/2025
Chamber 19	Loop Antenna	EM	EM-6879	271	09/25/2024	09/25/2025
Chamber 19	Bilog Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168 w 6dB Att.	9168-736	03/08/2024	03/08/2025
Chamber 19	Horn antenna (1GHz-18GHz)	ETS • LINDGREN	3117	00218718	10/04/2024	10/04/2025
Chamber 19	Horn antenna (18GHz-26GHz)	Com-power	AH-826	081001	11/24/2023	11/24/2024
Chamber 19	Horn antenna (26GHz-40GHz)	Com-power	AH-640	100A	03/19/2024	03/19/2025
Chamber 19	Preamplifier (9kHz-3GHz)	EM	EM330	060822	01/08/2024	01/08/2025
Chamber 19	Preamplifier (1GHz-26GHz)	HP	8449B	3008A02471	10/23/2024	10/23/2025
Chamber 19	Preamplifier (26GHz-40GHz)	MITEQ	JS4-26004000-27-5A	818471	05/13/2024	05/13/2025
Chamber 19	RF Cable (9kHz-26.5GHz)	Huber Suhner	Sucoflex 104A	MY1394/4A & 50886/4A	07/15/2024	07/15/2025
Chamber 19	RF Cable (18GHz-40GHz)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/22/2023	11/22/2024
Chamber 19	MXG Vector Signal Generator	Keysight	N5182B	MY53052399	12/26/2023	12/26/2024
Chamber 19	Test Software	Audix	E3 Ver:6.120203b	N/A	N/A	N/A

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conducted	Power Meter	Anritsu	ML2495A	1116010	09/26/2024	09/26/2025
Conducted	Power Sensor	Anritsu	MA2411B	34NKF50	09/26/2024	09/26/2025
Conducted	Temperature Chamber	KSON	THS-B4H100	2287	05/10/2024	05/09/2025
Conducted	DC Power supply	ABM	8185D	N/A	01/03/2024	01/03/2025
Conducted	AC Power supply	EXTECH	CFC105W	NA	N/A	N/A
Conducted	Spectrum analyzer	Keysight	N9010A	MY56070257	09/25/2024	09/25/2025
Conducted	Test Software	DARE	Radiation Ver:2013.1.23	NA	NA	NA
Conducted	Wideband Radio Comm. Tester	R&S	CMW500	1201.002K501087 93-JG	10/26/2024	10/26/2025
Conducted	Radio Communication Test Station	Anritsu	MT8000A	6272539604	08/29/2024	08/29/2025
Conducted	MT8000A Test Software	Anritsu	MX800000A Application Launcher V10.10.34.0	NA	NA	NA
Conducted	BT Simulator	Agilent	N4010A	MY48100200	NA	NA
Conducted	MXG Vector Signal Generator	Keysight	N5182B	MY53052399	12/26/2023	12/26/2024
Conducted (TS8997)	Wideband Radio Comm. Tester	R&S	CMW500	168811	09/25/2024	09/25/2025
Conducted (TS8997)	UP/DOWN converter	R&S	CMW-Z800A	100566	09/25/2024	09/25/2025
Conducted (TS8997)	Signal Generator	R&S	SMB100A	183701	09/10/2024	09/10/2025
Conducted (TS8997)	Vector Signal Generator	R&S	SMM100A	101908	09/10/2024	09/10/2025
Conducted (TS8997)	Signal analyzer 40GHz	R&S	FSV40	101884	09/11/2024	09/11/2025
Conducted (TS8997)	OSP150 extension unit CAM-BUS	R&S	OSP150	101107	09/11/2024	09/11/2025
Conducted (TS8997)	Test Software	R&S	EMC32 Ver: 12.00.00	NA	NA	NA

11.2 Appendix B: Uncertainty of Measurement

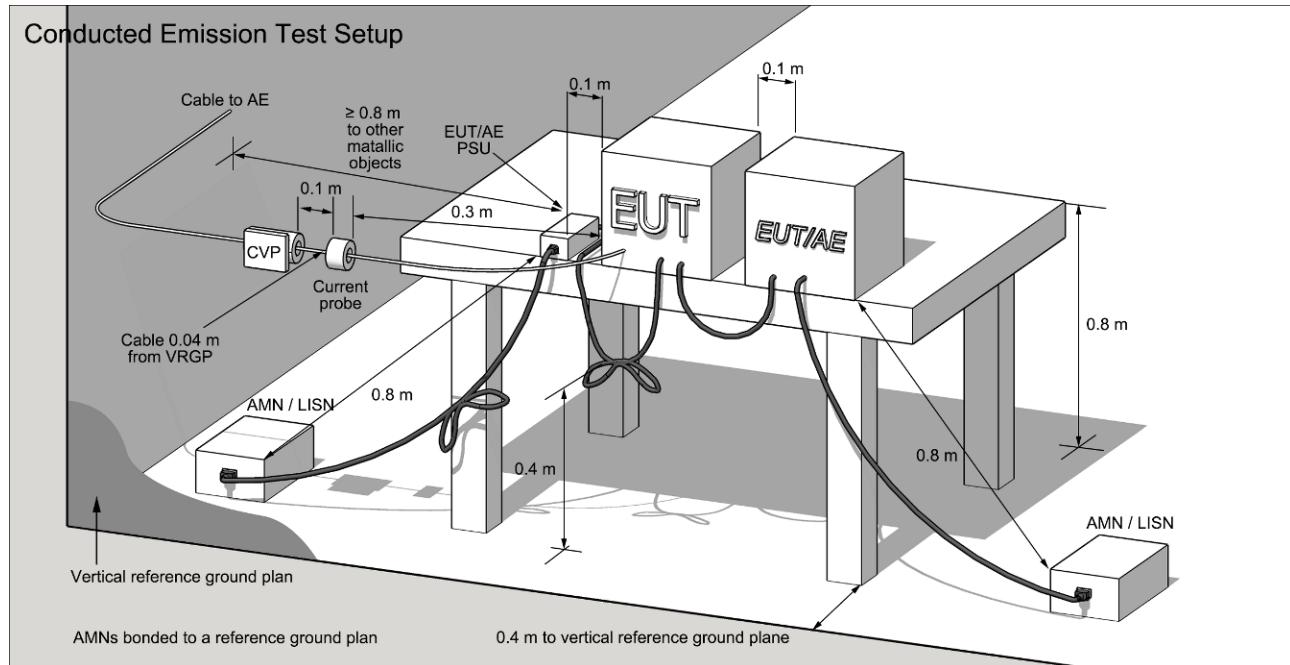
ISO/IEC 17025 requires that an estimate of measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameter	Uncertainty (k=2)
Conducted Emission (AC power line)	± 1.6 dB
Spurious emissions, radiated	± 4.78 dB
RF power, conducted	± 2.20 dB
Power Density	± 2.21 dB
RF Frequency	± 1.43 %
DC Voltage	± 2.12 %

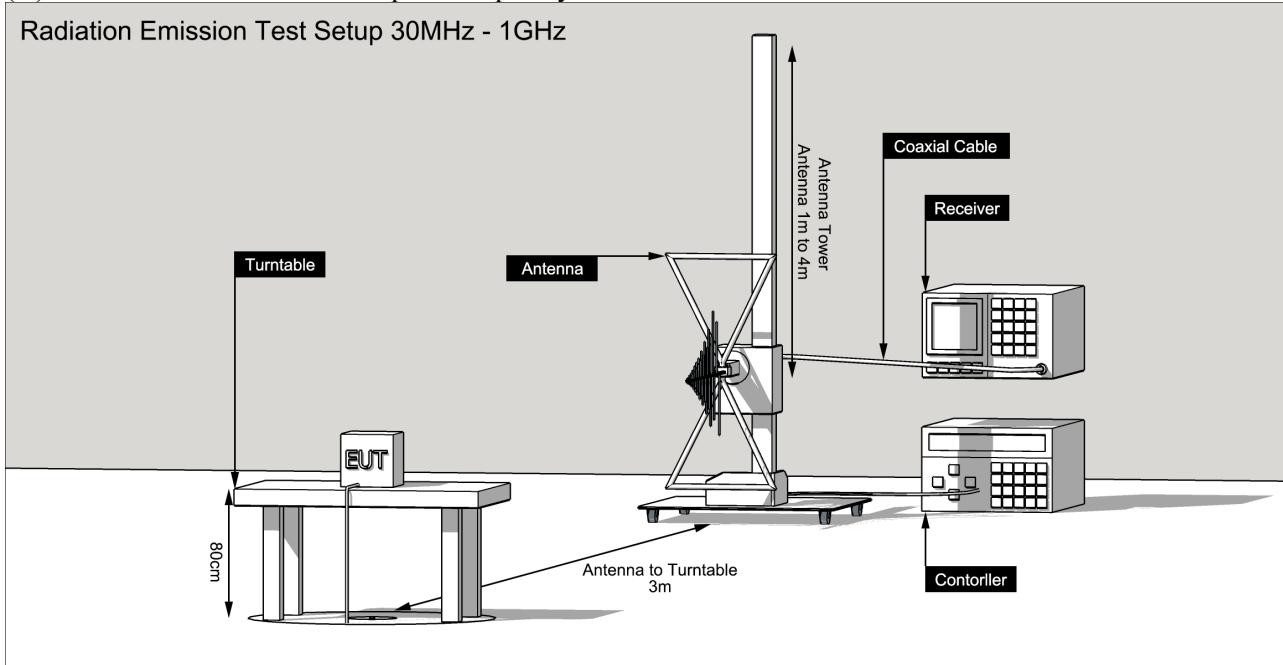
11.3 Appendix C: Test Setup

AC Line Conduced Emission Test Setup

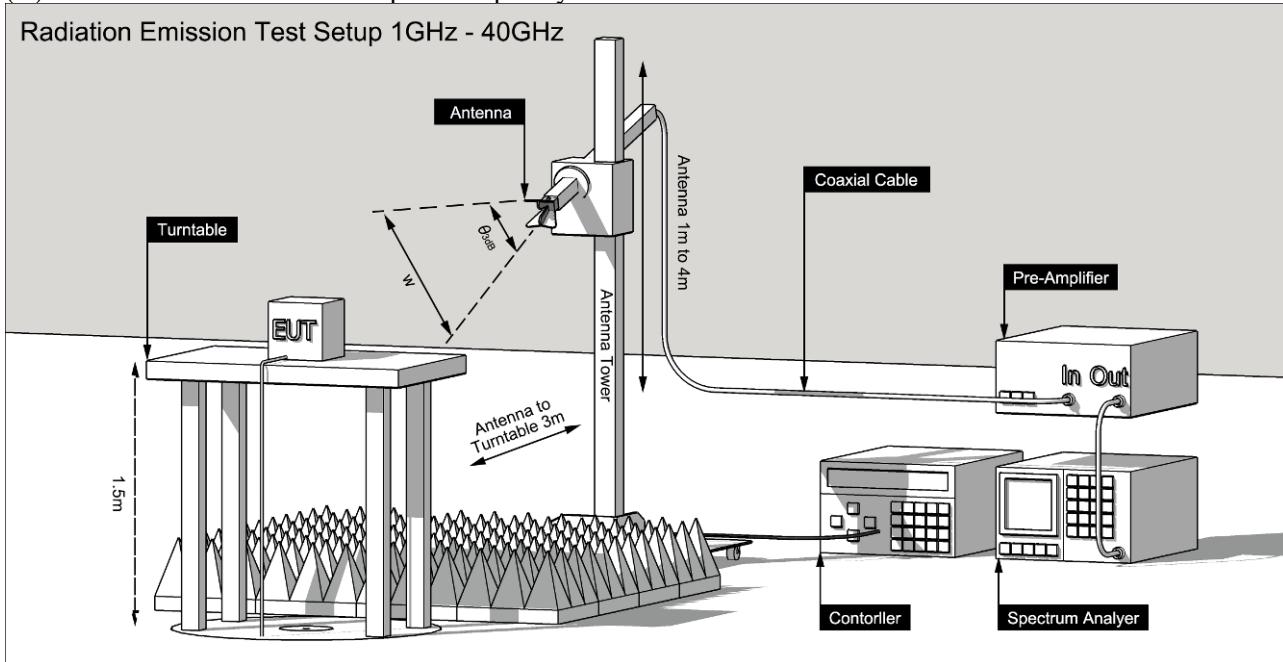
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10-2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.



Radiated Spurious Emission Test & 100kHz Bandwidth of Band Edges Measurement Test Setup
(A) Radiated Emission Test Setup for frequency below 1000MHz



(B) Radiated Emission Test Setup for frequency above 1 GHz



RF Conducted Measurement Test Setup

