

FCC - TEST REPORT

Report Number	:	68.930.21.0034.01	Date of Issu	ıe:	August 5, 2022
Model	<u>:</u>	MD4200			
Product Type	<u>:</u>	Digital Automatic Blood Pres	sure Monitor		
Applicant	<u>:</u>	Grandway Technology (She	nzhen) Limited	t	
Address	<u>:</u>	No. 5, the Second Industrial	Zone, Zhuken	g Commu	nity, Longtian
		Street, Pingshan District, 51	3118 Shenzhe	en, China	
Production Facility	<u>:</u>	Grandway Technology (She	nzhen) Limited	t	
Address	<u>:</u>	No. 5, the Second Industrial	Zone, Zhuken	g Commu	nity, Longtian
		Street, Pingshan District, 51	3118 Shenzhe	en, China	
Test Result	:	■ Positive □ Negat	ive		
Total pages including Appendices	:	31			

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Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Company name:

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

Shenzhen City, 518052,

P. R. China

FCC Registration

514049

Number:

FCC Designation

CA5009

Number:

Telephone:

86 755 8828 6998

Fax:

86 755 8828 5299



3 Description of the Equipment under Test

Product: Digital Automatic Blood Pressure Monitor

Model no.: MD4200

FCC ID: 2ABAFMD4200

Ratings: 6VDC (Supplied by 4x1.5V AAA batteries)

RF Transmission

Frequency:

2402MHz-2480MHz

No. of Operated Channel: 40

Modulation: GFSK

Antenna Type: Inverted F Antenna

Antenna Gain: -0.58dBi

Description of the EUT: The Equipment Under Test (EUT) is a Digital Automatic Blood

Pressure Monitor supports 2.4GHz Bluetooth functions.



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
10-1-2019 Edition	Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10 (2013).



5 Summary of Test Results

Test Condition		Test	Test Result		
Test Condition		Site	Pass	Fail	N/A
§15.207	Conducted emission AC power port	Note 3			\boxtimes
§15.247 (b) (3)	Conducted peak output power	Site 1	\boxtimes		
§15.247(a)(2)	6dB bandwidth	Site 1	\boxtimes		
§15.247(a)(1)	Carrier frequency separation				\boxtimes
§15.247(a)(1)(iii)	Number of hopping frequencies				
§15.247(a)(1)(iii)	Dwell Time				
§15.247(e)	Power spectral density	Site 1	\boxtimes		
§15.247(d)	Spurious RF conducted emissions	Site 1	\boxtimes		
§15.247(d)	Band edge	Site 1	\boxtimes		
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	\boxtimes		
§15.203	Antenna requirement	Note 2			

Note 1: N/A=Not Applicable.

Note 2: The EUT uses Inverted F Antenna, which gain is -0.58dBi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

Note 3: The EUT is powered by battery, so it is exempt from conducted emission test.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ABAFMD4200 complies with Section 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- ☐ Not Performed

The Equipment under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: March 3, 2022

Testing Start Date: March 3, 2022

Testing End Date: March 3, 2022

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: Prepared by: Tested by:

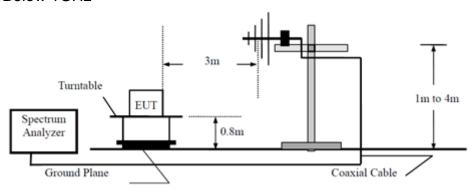
Trevor You EMC Project Manager Nick Huang EMC Project Engineer Louise Liu EMC Test Engineer



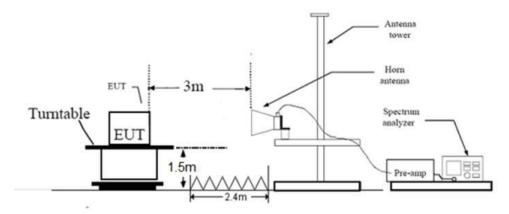
7 Test Setups

7.1 Radiated test setups

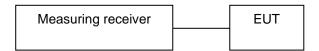
Below 1GHz



Above 1GHz



7.2 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N

Test software information:

Test Software Version	FCC Assist V1.0.0.2	
Modulation	Setting TX Power	Packet Type
GFSK	Default	1

The system was configured to channel 0, 19, and 39 for the test.



9 Technical Requirement

9.1 Conducted Peak output power

Test Method

- 1. Connect the power meter to the EUT
 - a) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
 - b) At all times the EUT is transmitting at its maximum power control level.
 - c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- 3. Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle to the measurement result.

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

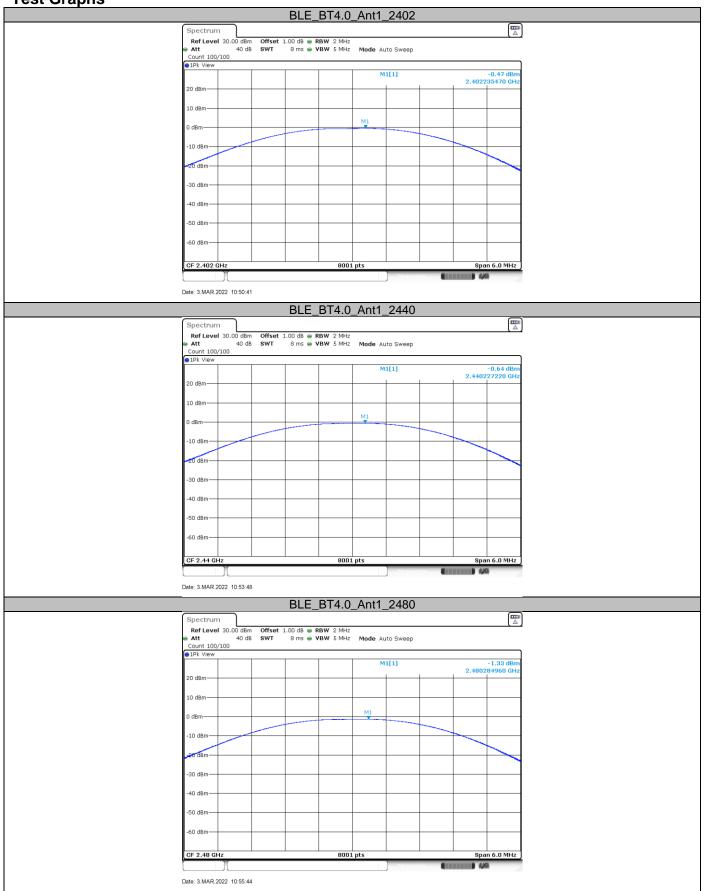
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

Test result as below table

Frequency	Conducted Peak Output Power	Result
MHz	dBm	
Bottom channel 2402MHz	-0.47	Pass
Middle channel 2440MHz	-0.64	Pass
Top channel 2480MHz	-1.33	Pass









9.2 6 dB Bandwidth

Test Method

- 1. Use the following spectrum analyzer settings:
- RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

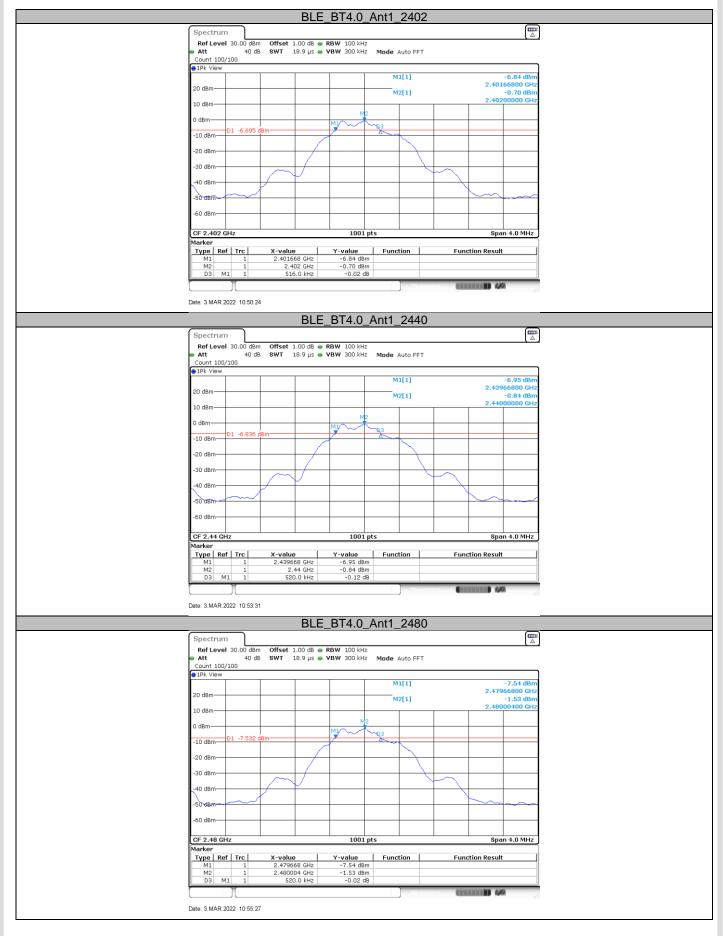
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Limit [kHz]
≥500

Test result

Frequency MHz	6dB bandwidth MHz	Result
Bottom channel 2402MHz	0.516	Pass
Middle channel 2440MHz	0.520	Pass
Top channel 2480MHz	0.520	Pass







9.3 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

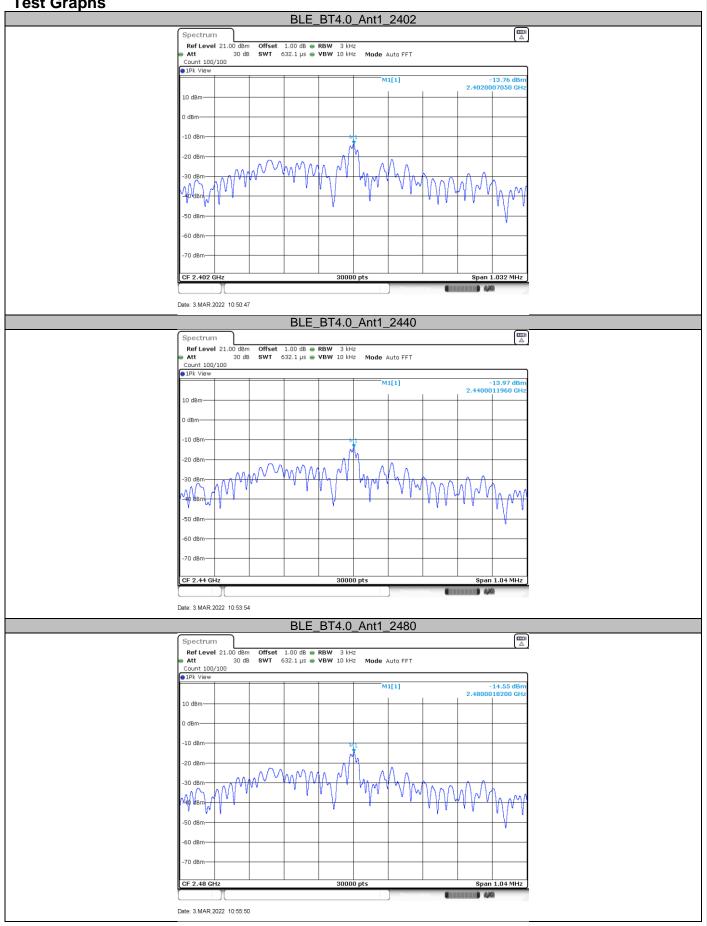
Limit [dBm/3KHz]
≤8

Test result

	Power spectral	
Frequency	density	Result
MHz	dBm/3KHz	
Top channel 2402MHz	-13.76	Pass
Middle channel 2440MHz	-13.97	Pass
Bottom channel 2480MHz	-14.55	Pass









9.4 Spurious RF conducted emissions

Test Method

- 1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

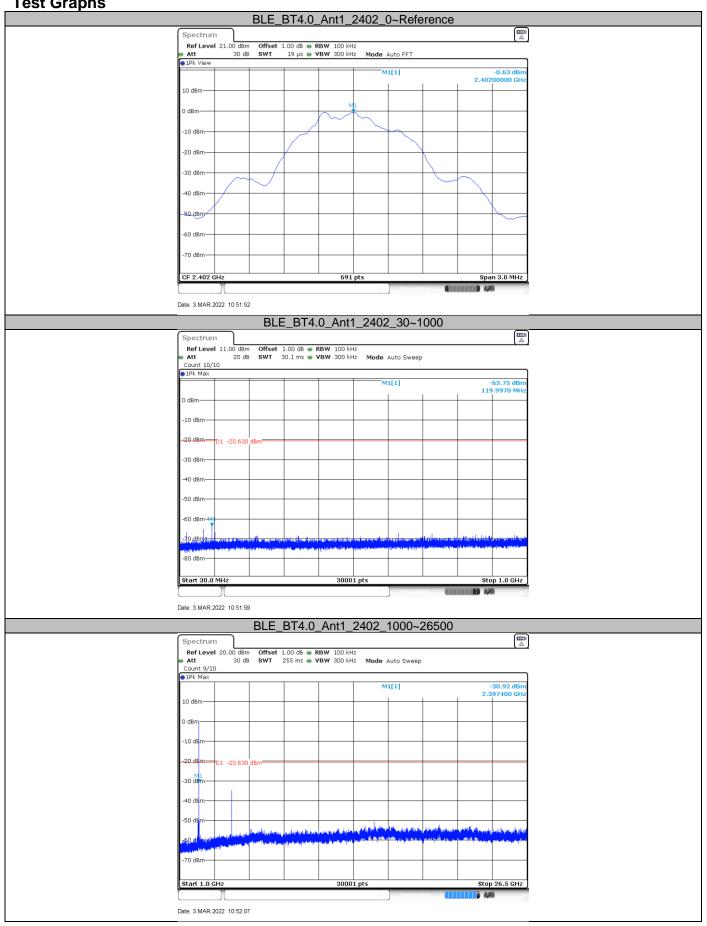
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test Result:

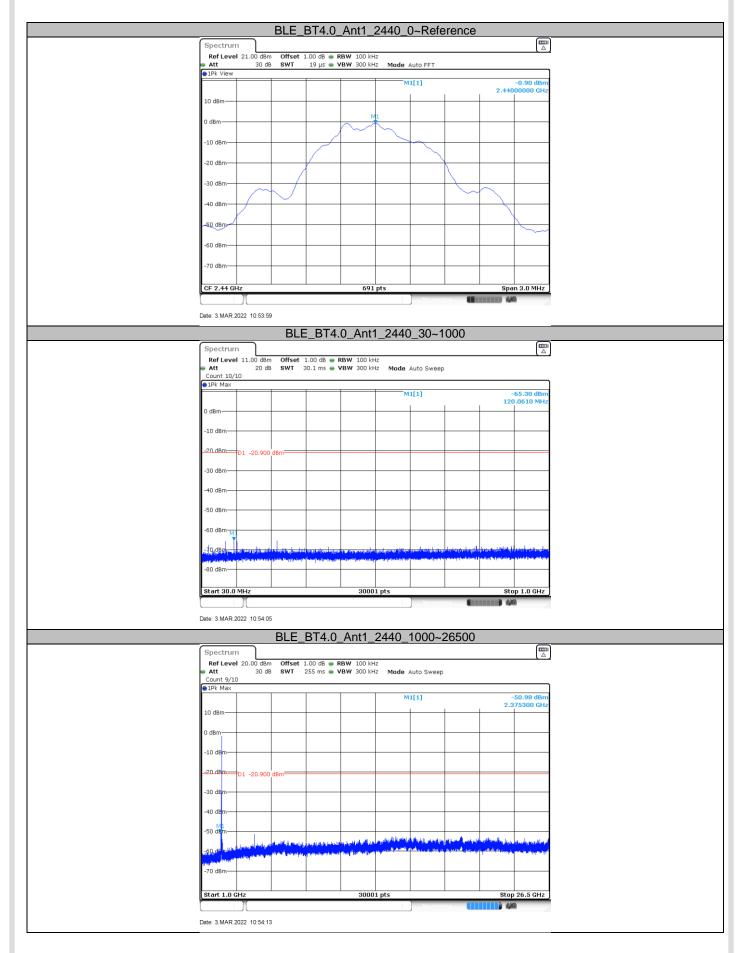
Test Mode	Antenna	Channel (MHz)	Freq Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE	ANT1	2402	30~1000	-0.63	-63.75	-20.63	PASS
BLE	ANT1	2402	1000~26500	-0.63	-30.92	-20.63	PASS
BLE	ANT1	2440	30~1000	-0.90	-65.30	-20.90	PASS
BLE	ANT1	2440	1000~26500	-0.90	-50.98	-20.90	PASS
BLE	ANT1	2480	30~1000	-1.51	-65.94	-21.51	PASS
BLE	ANT1	2480	1000~26500	-1.51	-34.16	-21.51	PASS



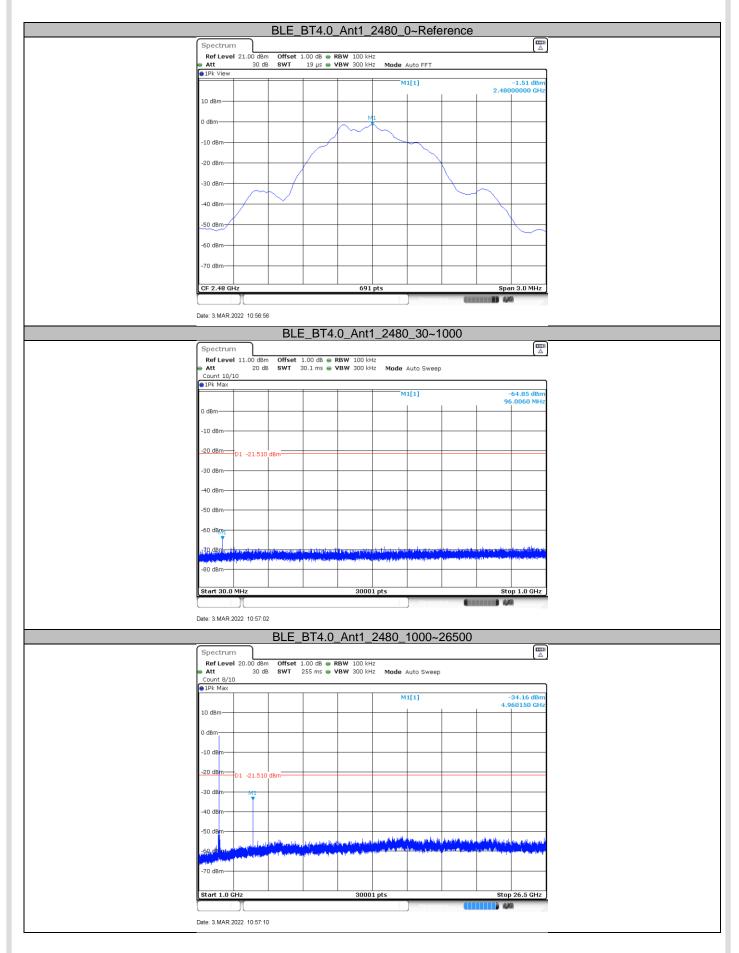














9.5 Band edge

Test Method

- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

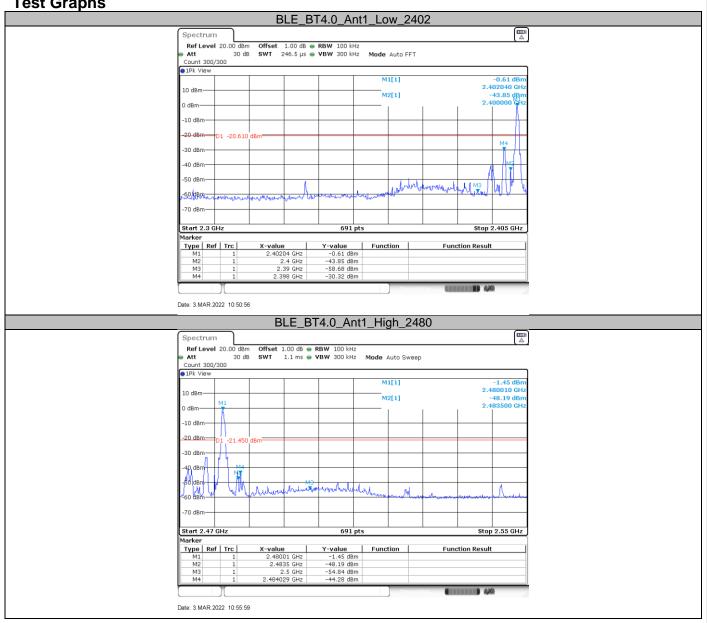
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Test Mode	Channel (MHz)	Reference Level(dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE	2402	-0.61	-30.32	-20.61	PASS
BLE	2480	-1.45	-44.28	-21.45	PASS









9.6 Spurious radiated emissions for transmitter

Test Method

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10: For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1MHz.
- b) VBW \ $[3 \times RBW]$.
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.



- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

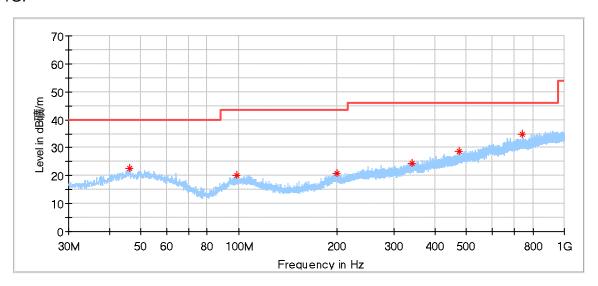
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.



Spurious radiated emissions for transmitter

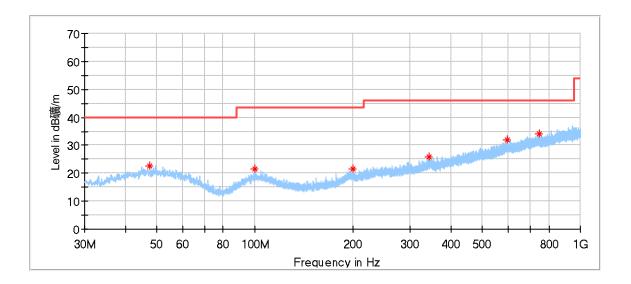
Transmitting spurious emission test result as below:

Below 1G:



Frequency	Max	Peak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dB _l	uV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
46.058889		22.48	40.00	17.52	100.0	Н	4.0	20.93
98.870000		19.94	43.50	23.56	100.0	Н	178.0	18.51
200.773889		20.94	43.50	22.56	200.0	Н	226.0	18.30
341.046667		24.53	46.00	21.47	100.0	Н	241.0	22.24
473.990556		28.70	46.00	17.30	100.0	Н	355.0	24.95
740.578889		34.83	46.00	11.17	100.0	Н	124.0	29.61

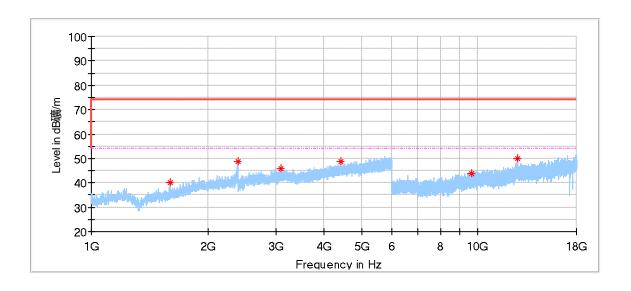




Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
47.621667	22.78	40.00	17.22	100.0	V	37.0	20.99
100.271111	21.51	43.50	21.99	200.0	V	92.0	18.53
200.504444	21.42	43.50	22.08	200.0	V	124.0	18.33
342.340000	25.98	46.00	20.02	100.0	V	320.0	22.29
595.941111	31.87	46.00	14.13	100.0	V	163.0	27.53
746.129444	34.06	46.00	11.94	200.0	V	103.0	29.74

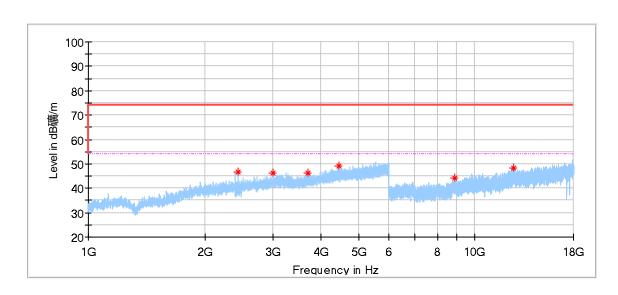


Low channel 2402MHz Test Result



Critical_Freqs

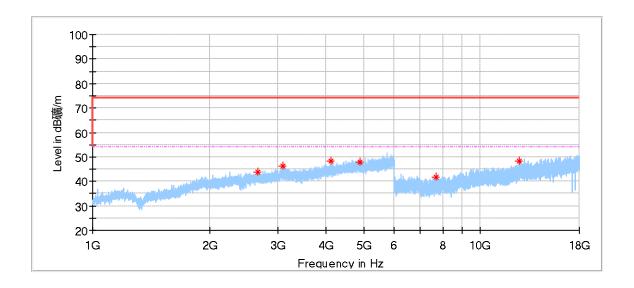
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Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
1598.500000	40.02	74.00	33.98	150.0	Н	238.0	-7.88
2393.500000	48.75	74.00	25.25	150.0	Н	12.0	-2.21
3086.500000	45.74	74.00	28.26	150.0	Н	244.0	0.24
4428.500000	48.61	74.00	25.39	150.0	Н	347.0	3.44
9614.500000	43.89	74.00	30.11	150.0	Н	217.0	12.22
12645.500000	49.88	74.00	24.12	150.0	Н	277.0	16.76



Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2443.000000	46.74	74.00	27.26	150.0	V	156.0	-2.00
3009.500000	46.44	74.00	27.56	150.0	V	305.0	-0.11
3703.000000	46.10	74.00	27.90	150.0	V	318.0	0.99
4444.000000	49.21	74.00	24.79	150.0	V	45.0	3.44
8856.000000	44.19	74.00	29.81	150.0	٧	276.0	11.83
12632.000000	48.50	74.00	25.50	150.0	٧	27.0	16.61

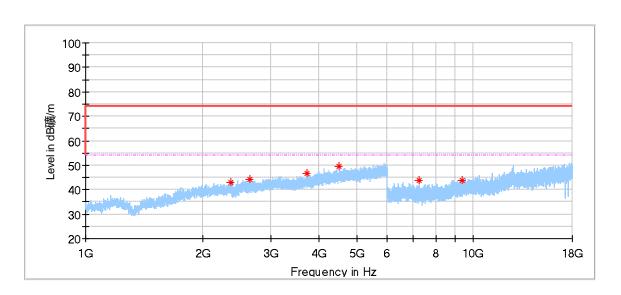


Middle channel 2440MHz Test Result



Critical_Freqs

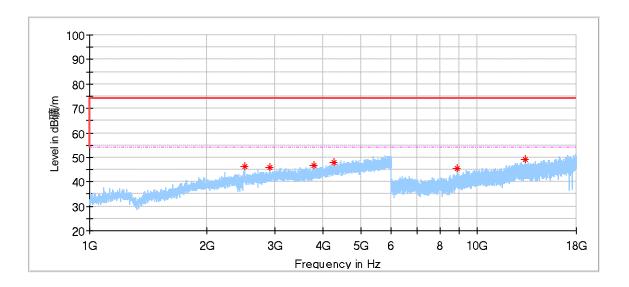
5. m.sa 1945							
Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2670.000000	43.99	74.00	30.01	150.0	Н	229.0	-1.36
3089.500000	46.06	74.00	27.94	150.0	Н	298.0	0.23
4126.500000	48.41	74.00	25.59	150.0	Н	356.0	2.42
4885.000000	48.02	74.00	25.98	150.0	Н	45.0	4.60
7669.000000	41.62	74.00	32.38	150.0	Н	91.0	9.25
12564.500000	48.20	74.00	25.80	150.0	Н	335.0	15.83



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.000000	43.17	74.00	30.83	150.0	٧	42.0	-2.29
2657.000000	44.36	74.00	29.64	150.0	٧	9.0	-1.36
3713.000000	46.76	74.00	27.24	150.0	٧	205.0	1.04
4513.000000	49.58	74.00	24.42	150.0	٧	104.0	3.69
7245.500000	43.79	74.00	30.21	150.0	٧	273.0	8.84
9362.500000	43.87	74.00	30.13	150.0	٧	332.0	11.98

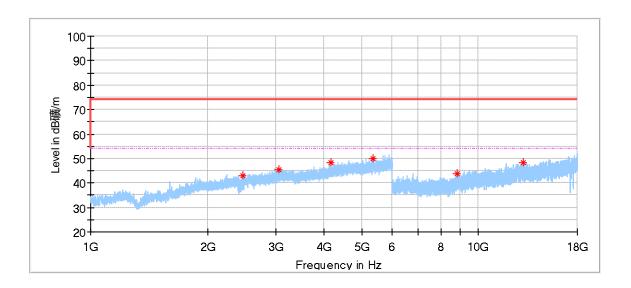


High channel 2480MHz Test Result



Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2508.500000	46.08	74.00	27.92	150.0	Н	231.0	-1.79
2923.500000	45.99	74.00	28.01	150.0	Н	25.0	-0.72
3783.500000	46.76	74.00	27.24	150.0	Н	271.0	1.34
4267.500000	47.98	74.00	26.02	150.0	Н	231.0	2.93
8863.000000	45.51	74.00	28.49	150.0	Н	28.0	11.82
13296.000000	49.04	74.00	24.96	150.0	Н	28.0	16.50





Critical_Freqs

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Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2467.000000	43.07	74.00	30.93	150.0	٧	210.0	-1.87
3054.000000	45.41	74.00	28.59	150.0	٧	77.0	0.13
4179.000000	48.30	74.00	25.70	150.0	٧	318.0	2.49
5337.000000	50.01	74.00	23.99	150.0	٧	71.0	5.61
8843.000000	43.82	74.00	30.18	150.0	٧	49.0	11.85
13019.000000	48.32	74.00	25.68	150.0	٧	91.0	16.23

Remark:

- (1) Data of measurement within frequency range18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report;
- (2) Level=Reading Level + Correction Factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain

Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)



10 Test Equipment List

Radiated Emission Test (For 30-1000MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2022-6-4
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2022-7-23
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	1	2022-6-23
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2022-8-25
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2022-6-6
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	1	2022-8-23
3m Semi- anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001		2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001- A10	Version10.35.0 2	N/A	N/A

Radiated Emission 2# Test (For 1000-25000MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2022-6-4
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2023-1-17
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2022-5-24
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2022-10-10
Pre-amplifier	Rohde & Schwarz	SCU 08F2	68-4-29-19-004	08400018	1	2022-10-10
Sideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	68-4-80-14-008	12827	1	2022-7-21
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2022-7-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006		2	2022-8-23
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006- A01	Version10.35. 02	N/A	2023-5-28

RF Conducted Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2022-6-3
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006- A13	Version 2.5.77.0418	N/A	N/A



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.28dB; Vertical: 4.36dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.26dB; Vertical: 4.25dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.51dB; Vertical: 4.50dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.27dB Frequency test involved: 0.6×10-7 or 1%
Uncertainty Evaluation for Power Spectral Density Conducted measurement	1.17dB
Uncertainty Evaluation for Spurious emissions Conducted measurement	1.43dB
Uncertainty Evaluation for Humidity	0.934%
Uncertainty Evaluation for Temperature	0.195 °C

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

THE END