



经续检验

SLG-CPC Testlaboratory



TEST REPORT		
Report Number.....:	91181-25-72-25-PP001	
Date of issue	2026-01-23	
Prepared by (+signature)	Pale	<i>Pale</i>
Approved by (+signature)	Jason	<i>Jason Gao</i>
Testing Laboratory name	SLG-CPC Testlaboratory Co., Ltd.	
Address	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name	CorridorSafety Inc	
Address	6505 W Park Blvd Ste 306 PMB#276, Plano, TX 75093, USA	
Manufacturer's name	CorridorSafety Inc	
Address	6505 W Park Blvd Ste 306 PMB#276, Plano, TX 75093, USA	
Factory's name	MOKO TECHNOLOGY Ltd	
Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110	
Standard(s)	FCC 47 CFR Part 15, Subpart C	
EUT.....	CorTag	
Trade Mark.....		
Model/Type reference	CT01A	
FCC ID	2BUFH-CT01A	
Date of receipt of test item	2025-12-26	
Date (s) of performance of test:	2025-12-26 to 2026-01-09	
Summary of Test Results	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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Table of Contents

1	EUT TECHNICAL DESCRIPTION	4
2	SUMMARY OF TEST RESULT	5
3	TEST METHODOLOGY	6
3.1	GENERAL DESCRIPTION OF APPLIED STANDARDS	6
3.2	MEASUREMENT EQUIPMENT USED	6
3.3	DESCRIPTION OF TEST MODES.....	7
4	FACILITIES AND ACCREDITATIONS	8
4.1	FACILITIES	8
4.2	LABORATORY ACCREDITATIONS AND LISTINGS	8
5	TEST SYSTEM UNCERTAINTY	9
6	SETUP OF EQUIPMENT UNDER TEST	10
6.1	RADIO FREQUENCY TEST SETUP 1	10
6.2	RADIO FREQUENCY TEST SETUP 2	10
7	TEST REQUIREMENTS	12
7.1	DTS 6DB BANDWIDTH.....	12
7.2	MAXIMUM PEAK CONDUCTED OUTPUT POWER	15
7.3	MAXIMUM POWER SPECTRAL DENSITY	17
7.4	RADIATED SPURIOUS EMISSION	20
7.5	CONDUCTED EMISSION TEST	30
7.6	ANTENNA APPLICATION	33

Modified Information

Report No.	Revision Data	Summary
91181-25-72-25-PP001	2026-01-23	Original Version

1 EUT TECHNICAL DESCRIPTION

Product:	CorTag
Model Number:	CT01A
Power supply:	☒ : DC 3.7V From Battery ; DC 5V From Charging ☐ :Adapter information
Modulation:	BLE(GFSK)
Frequency Range:	2402MHz~2480MHz
Number of Channels:	40channels
Antenna Gain:	3.97dBi
Antenna:	PCB Antenna

Note: for more details, please refer to the User's manual of the EUT.

2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.207	Conducted Emission Test	PASS	
15.247(b)	Antenna Application	PASS	
	NOTE1: N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.		

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2BUFH-CT01A filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

3.2 MEASUREMENT EQUIPMENT USED

Equipment	Model	Manufacturer	S/N	Last Cal.	DUE Cal.
RF Connected Test					
Vector Signal Generater	Rohde & Schwarz	SMBV100B(6G)	101166	2025/04/16	1 year
Analog Signal Generator	Rohde & Schwarz	SMB100A(40G)	181333	2025/06/18	1 year
Signal Analyzer	Rohde & Schwarz	FSV40	101527	2025/03/26	1 year
Power Analyzer	Rohde & Schwarz	OSP-B157W8	N/A	2025/04/16	1 year
Wideband Radio Communication Tester	R&S	CMW270	101985	2025/04/18	1 year
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166898	2025/04/14	1 year
Spectrum Analyzer	Agilent	E4408B	MY44211139	2025/11/04	1 year
Temperature&Humidity test chamber	ESPEC	VC 4018	/	2025/03/26	1 year
Radiated Emission Test					
EMI Test Receiver	KEYSIGHT	N9010A	MY56070465	2025/12/02	1 year
EMI Test Receiver	Rohde & Schwarz	FSV40	101511	2025/12/08	1 year
Bilog Antenna	Schwarzbeck	VULB 9163	01335	2023/04/21	3 years
Power Amplifier	EMEC	EM330	060676	2025/12/06	3 years
Cable	Tuyue	F4309	L-400-NmNm-12000	2024/12/03	2 years
Horn Antenna	Schwarzbeck	BBHA9120D	1779	2025/03/28	3 years
Horn Antenna	Schwarzbeck	BBHA9170	00954	2025/09/12	3 years
Power Amplifier	Rohde & Schwarz	SCU08F2	08400019	2025/03/24	3 years
Power Amplifier	Rohde & Schwarz	SCU-18F	180118	2025/03/24	3 years
Power Amplifier	Rohde & Schwarz	SCU40A	100499	2023/06/21	3 years
Active Loop Antenna	ETS LINDGREN	6512	41623	2025/03/19	3 years
Test Software	Farad	EZ-EMC	Ver.CPC-3A1	/	/
Conducted Emission Test					
LISN	Schwarzbeck	NSLK 8127	8127-892	2025/03/17	1 year
LISN	Schwarzbeck	NSLK 8127	8127-437	2025/06/25	1 year
EMI Test Receiver	R&S	ESR3	102124	2025/12/02	1 year
Pulse Limiter	R&S	ESH3-Z2	357.8810.52	2025/12/01	1 year
Test Software	Farad	EZ-EMC	Ver.CPC-3A1	/	/

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (BLE :1Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for BLE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	...	...
1	2404	20	2442	37	2476
2	2406	21	2444	38	2478
...	...	...	...	39	2480
Note: $f_c = 2402\text{MHz} + k \times 1\text{MHz}$ $k=1$ to 39					

Test Frequency and channel for BLE:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People' s Republic of China

The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.10 and CISPR Publication 32.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: Accredited by ISED, October 31 2023
CAB identifier: CN0126
Company Number: 27767

Accredited by A2LA, October 31 2023
The Certificate Registration Number is 6325.01

Accredited by FCC
Designation Number: CN1287
Test Firm Registration Number: 394054

Name of Firm

: SLG-CPC Testlaboratory Co., Ltd.

Site Location

: No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People' s Republic of China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\%$
Conducted Emissions Test	3.68dB
Radiated Emission Test	4.80dB (below 1G) 3.28dB (above 1GHz)
Power Density	$\pm 0.9\%$
Occupied Bandwidth Test	$\pm 2.3\%$
Band Edge Test	$\pm 1.2\%$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 3.2\%$
Humidity	$\pm 2.5\%$

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The BLE component's antenna port(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.

EUT

6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the the specified distance from the EUT.

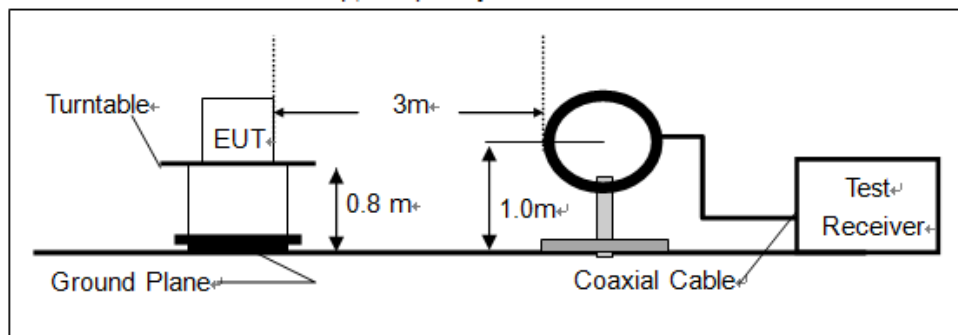
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

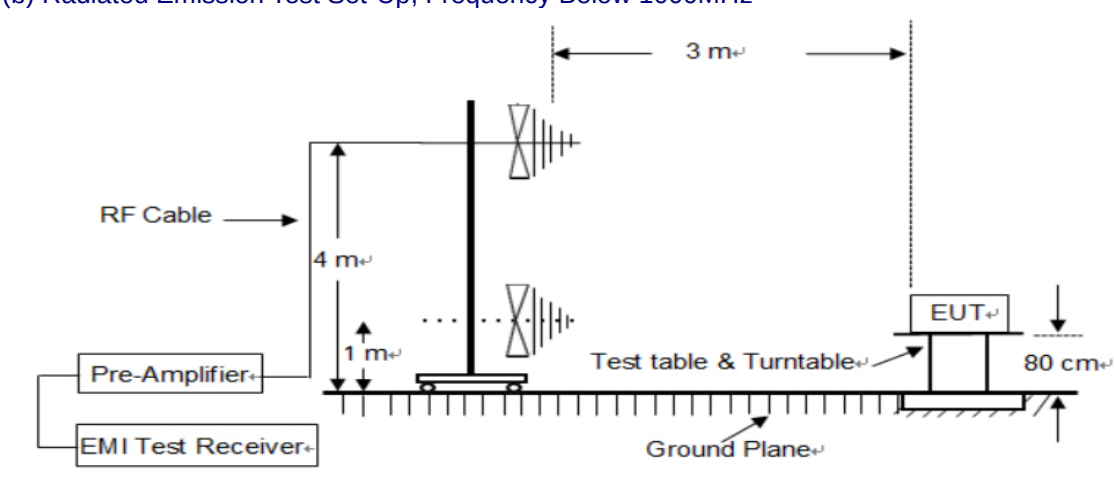
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

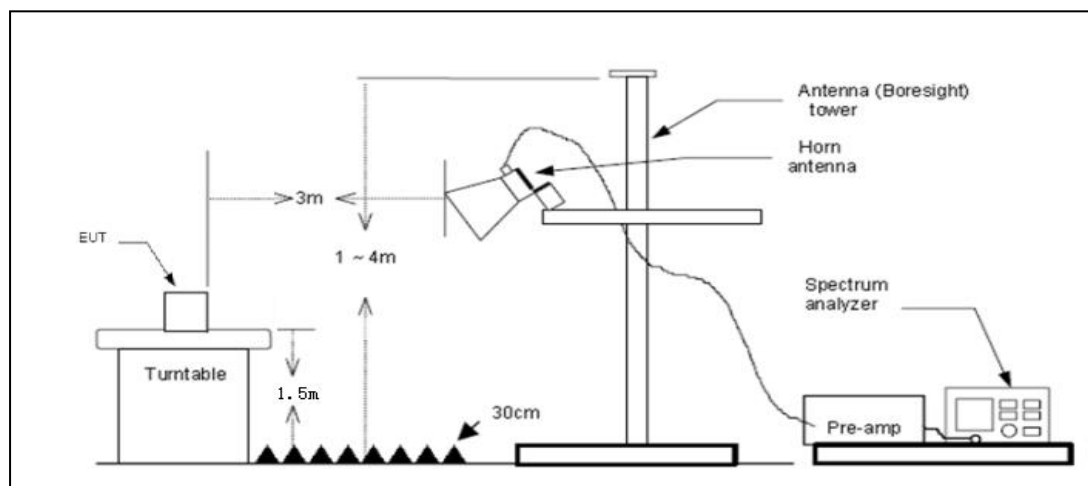
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



7 TEST REQUIREMENTS

7.1 DTS 6DB BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.1.2 Conformance Limit

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

7.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in BLE mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) = 300 kHz.

Set Span = 2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set 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.

Measure and record the results in the test report.

Test Results

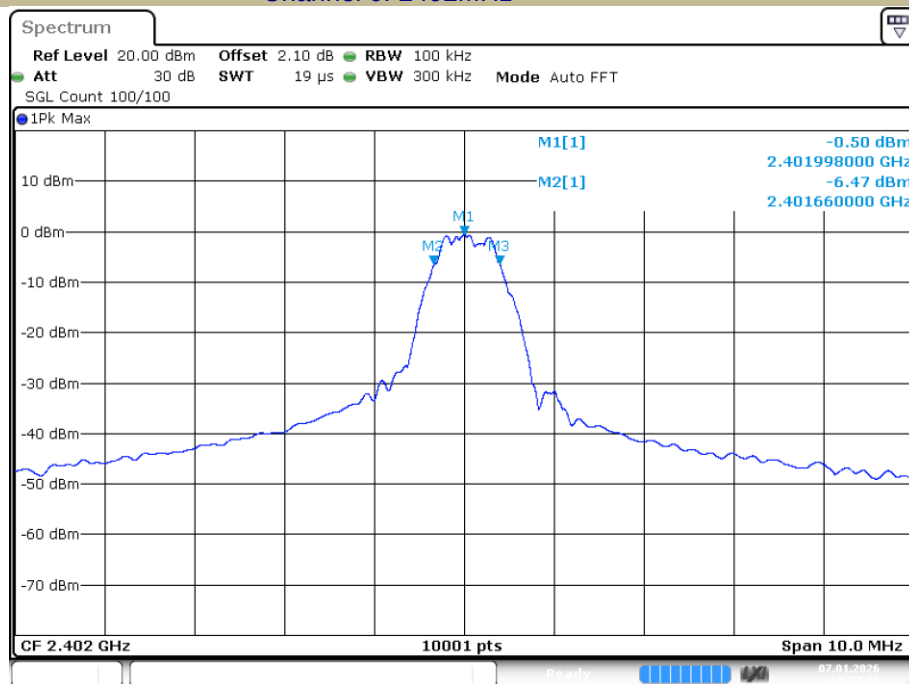
Temperature:	24° C
Relative Humidity:	51%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
BLE	0	2402	0.735	>500	PASS
	19	2440	0.717	>500	PASS
	39	2480	0.703	>500	PASS

Test Mode

DTS (6dB) Bandwidth
BLE

Channel 0: 2402MHz

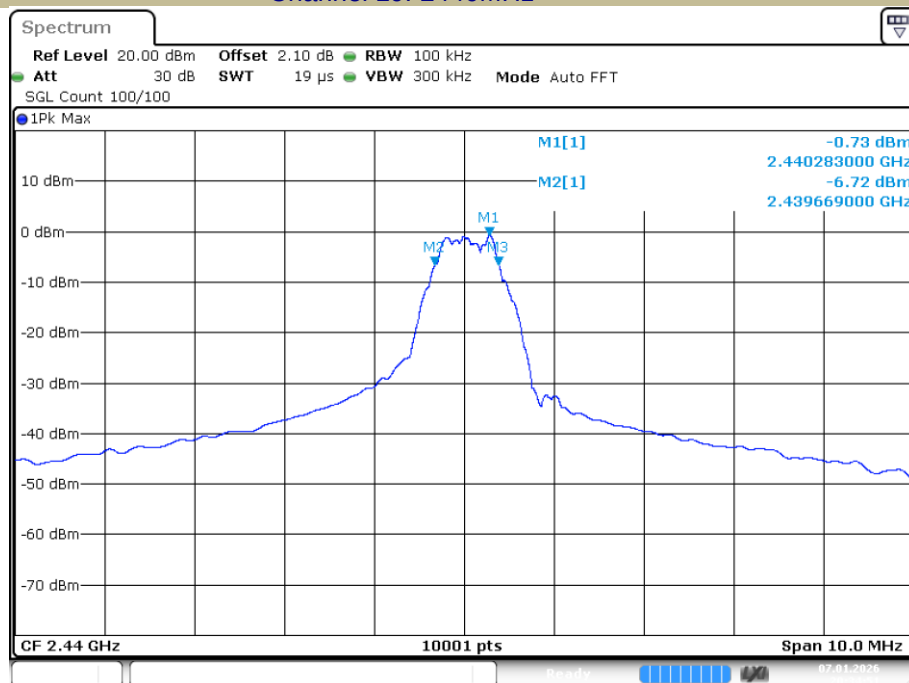


Date: 7. JAN. 2026 20:33:32

Test Mode

DTS (6dB) Bandwidth
BLE

Channel 19: 2440MHz

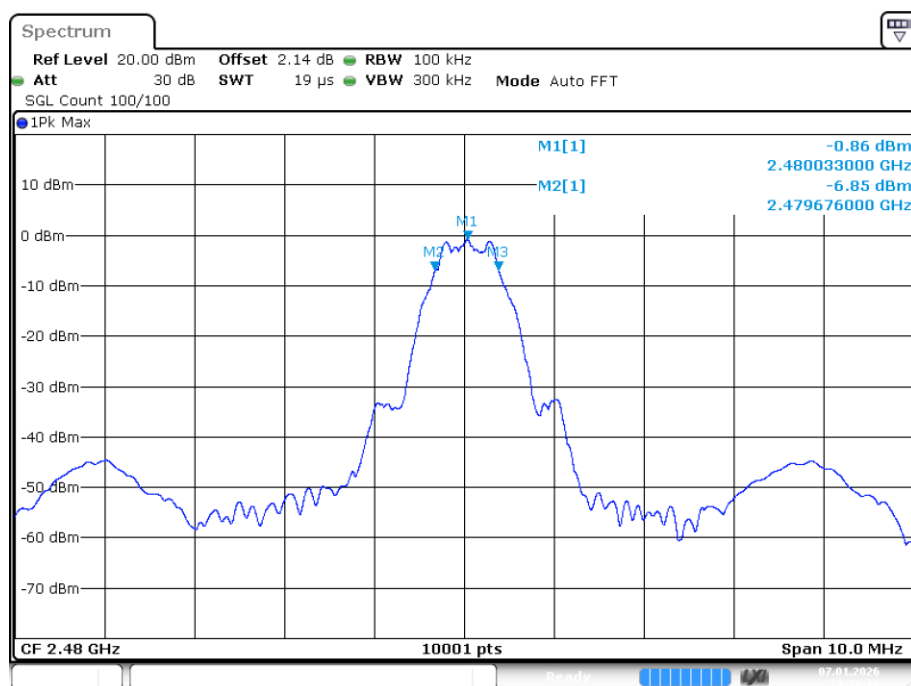


Date: 7. JAN. 2026 20:34:51

Test Mode

DTS (6dB) Bandwidth
BLE

Channel 39: 2480MHz



Date: 7. JAN. 2026 20:36:11

7.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

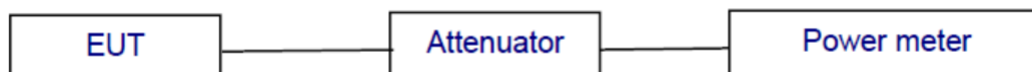
7.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

7.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

7.2.4 Test Procedure



■ According to FCC Part 15.247(b)(3)

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. For smart system, 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. 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.

Set the RBW $\geq$ DTS bandwidth (about 1MHz).

Set VBW $= 3 \times$ RBW (about 3MHz)

Set the span $\geq 3 \times$ RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

■ According to FCC Part 15.247(b)(4):

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. 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)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Mode	CH	Result (dBm)	Limit (dBm)
BLE(GFSK)	CH0	0.997	30
	CH19	0.419	30
	CH39	-0.135	30
Conclusion: PASS			

7.3 MAXIMUM POWER SPECTRAL DENSITY

7.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

7.3.4 Test Procedure

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

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

7.3.5 Test Results

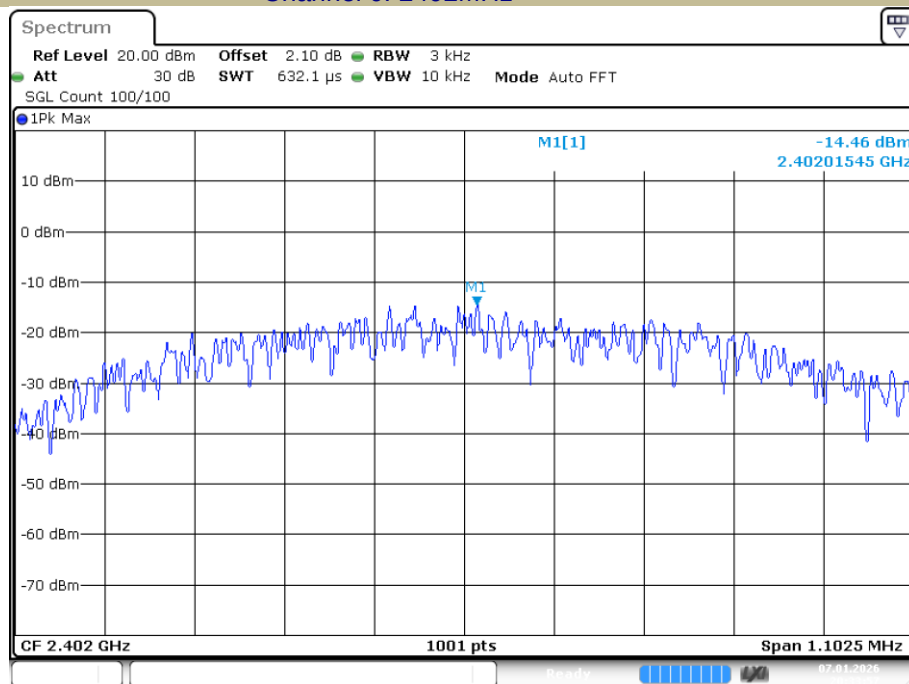
Temperature:	23° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Mode	CH	Power density (dBm/3kHz)	(dBm/3kHz) Limit
GFSK(BLE)	CH0	-14.462	8
	CH19	-14.974	8
	CH39	-15.554	8
Conclusion: PASS			

Test Mode

Power Spectral Density
BLE

Channel 0: 2402MHz

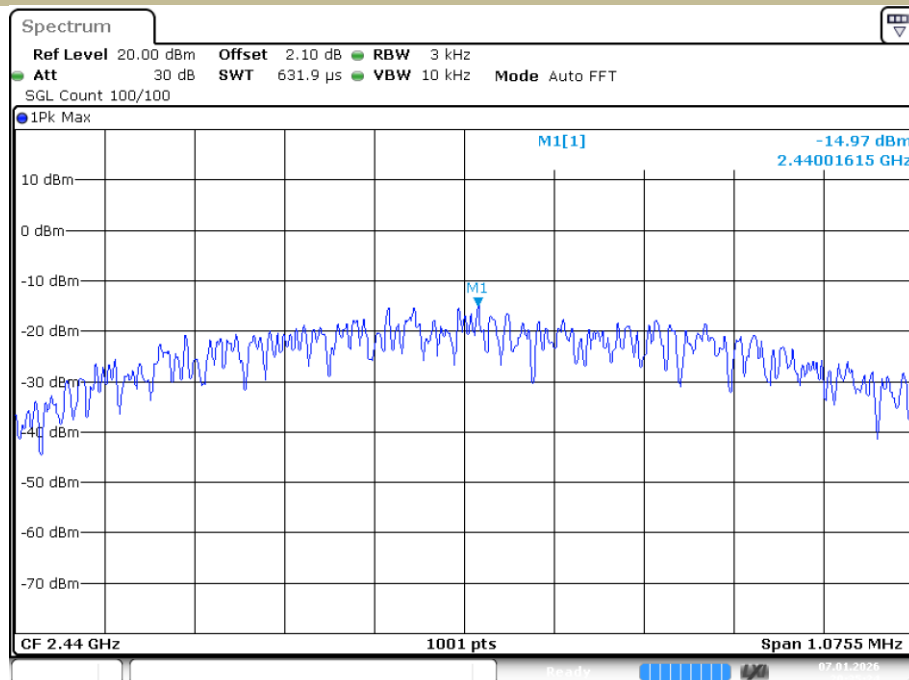


Date: 7. JAN. 2026 20:33:58

Test Mode

Power Spectral Density
BLE

Channel 19: 2440MHz

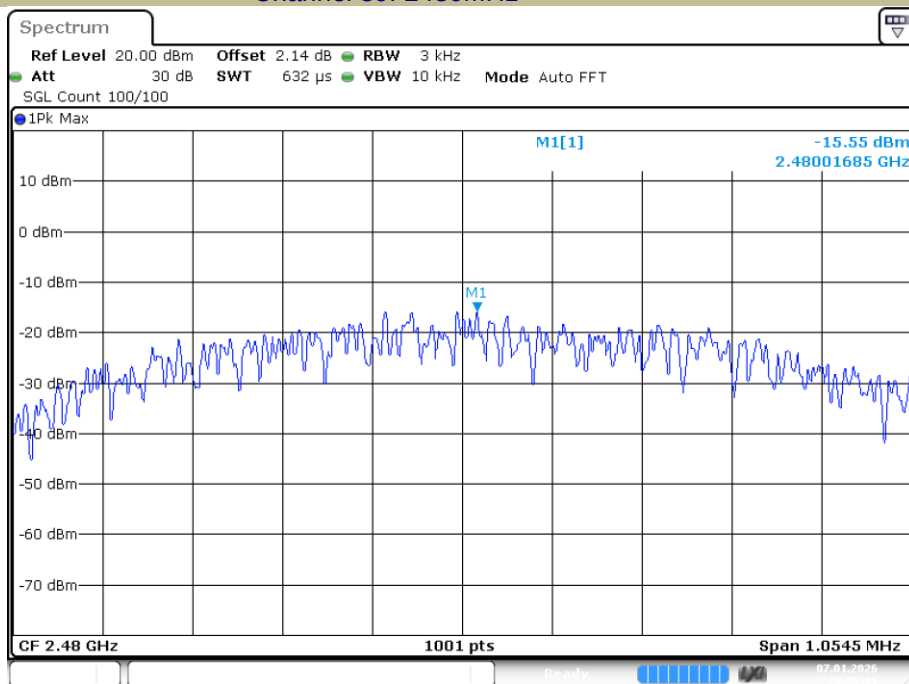


Date: 7. JAN. 2026 20:35:24

Test Mode

Power Spectral Density
BLE

Channel 39: 2480MHz



Date: 7.JAN.2026 20:36:41

7.4 RADIATED SPURIOUS EMISSION

7.4.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

7.4.2 Conformance Limit

According to FCC Part 15.247(d): 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)).
 According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.4.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

7.4.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz (1GHz to 25GHz), 100 kHz for $f < 1$ GHz (30MHz to 1GHz)

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required

for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

7.4.5 Test Results

Temperature:	23° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

BLE mode have been tested, and the worst result was report as below:

Test mode: BLE

Frequency:

Channel 0: 2402MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V
4804	59.06	-4.12	54.94	74	-19.06	peak	H
4804	45.23	-4.12	41.11	54	-12.89	AVG	H
7206	51.96	1.46	53.42	74	-20.58	peak	H
7206	41.00	1.46	42.45	54	-11.55	AVG	H
4804	60.01	-4.12	55.89	74	-18.11	peak	V
4804	49.04	-4.12	44.92	54	-9.08	AVG	V
7206	50.00	1.46	51.46	74	-22.54	peak	V
7206	39.77	1.46	41.23	54	-12.77	AVG	V

Test mode: BLE

Frequency:

Channel 19: 2440MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V
4880	59.87	-4.03	55.84	74	-18.16	peak	H
4880	46.70	-4.03	42.67	54	-11.33	AVG	H
7320	54.00	1.66	55.66	74	-18.34	peak	H
7320	41.22	1.66	42.88	54	-11.12	AVG	H
4880	59.59	-4.03	55.56	74	-18.44	peak	V
4880	44.85	-4.03	40.82	54	-13.18	AVG	V
7320	48.00	1.66	49.66	74	-24.34	peak	V
7320	39.99	1.66	41.65	54	-12.35	AVG	V

Test mode: BLE

Frequency:

Channel 39: 2480MHz

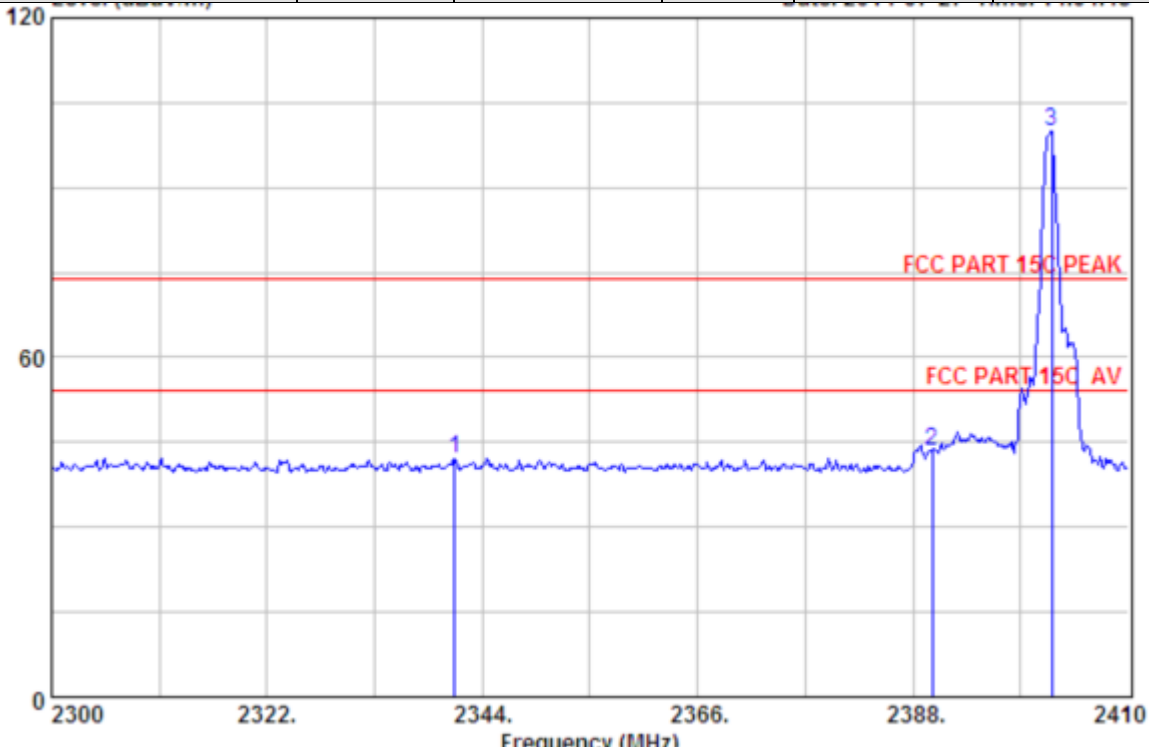
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V
4960	57.45	-4.26	53.19	74	-20.81	peak	H
4960	48.02	-4.26	43.76	54	-10.24	AVG	H
7440	52.06	1.18	53.24	74	-20.76	peak	H
7440	40.01	1.18	41.19	54	-12.81	AVG	H
4960	59.66	-4.26	55.40	74	-18.60	peak	V
4960	48.77	-4.26	44.51	54	-9.49	AVG	V
7440	50.00	1.18	51.18	74	-22.82	peak	V
7440	40.11	1.18	41.29	54	-12.71	AVG	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

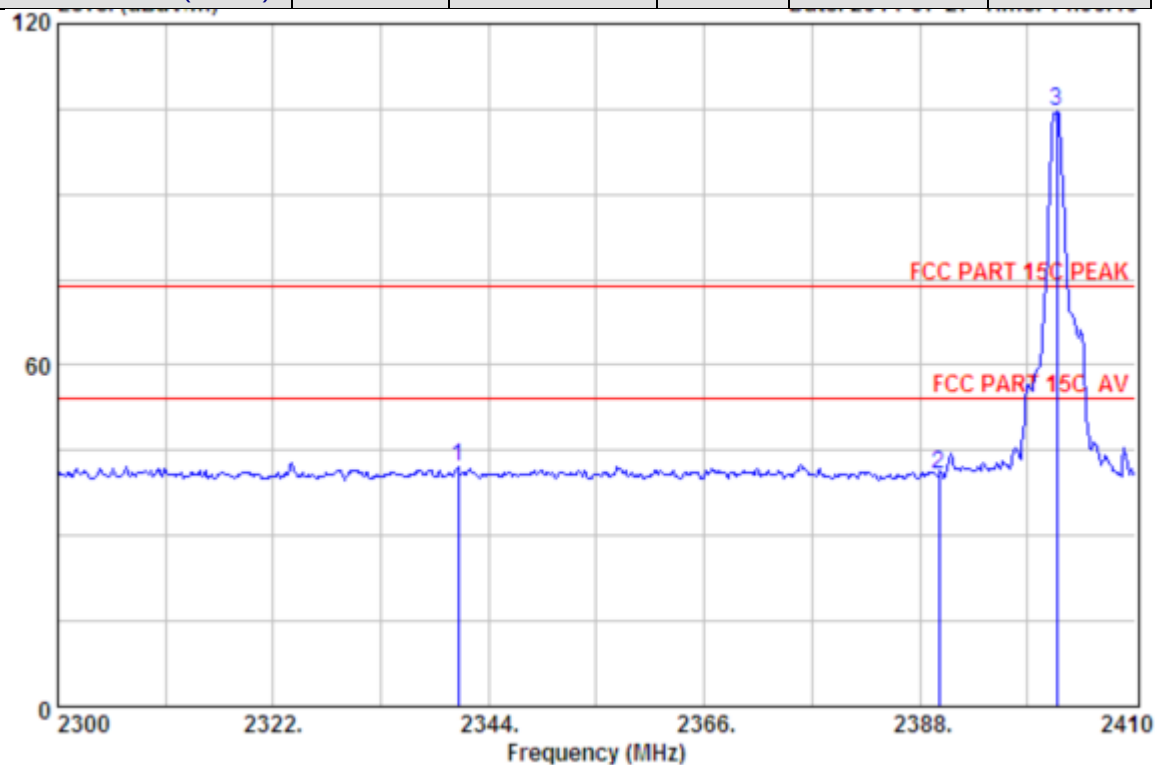
Test mode: BLE(GFSK)	2402MHz	Test channel:	Lowest	Polarization	Horizontal
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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2341.14	27.70	6.56	34.22	41.97	42.01	74.00	31.99	Peak
2	2390.00	27.64	6.62	34.19	43.52	43.59	74.00	30.41	Peak
3	2402.19	27.61	6.62	34.18	99.95	100.00	74.00	-26.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

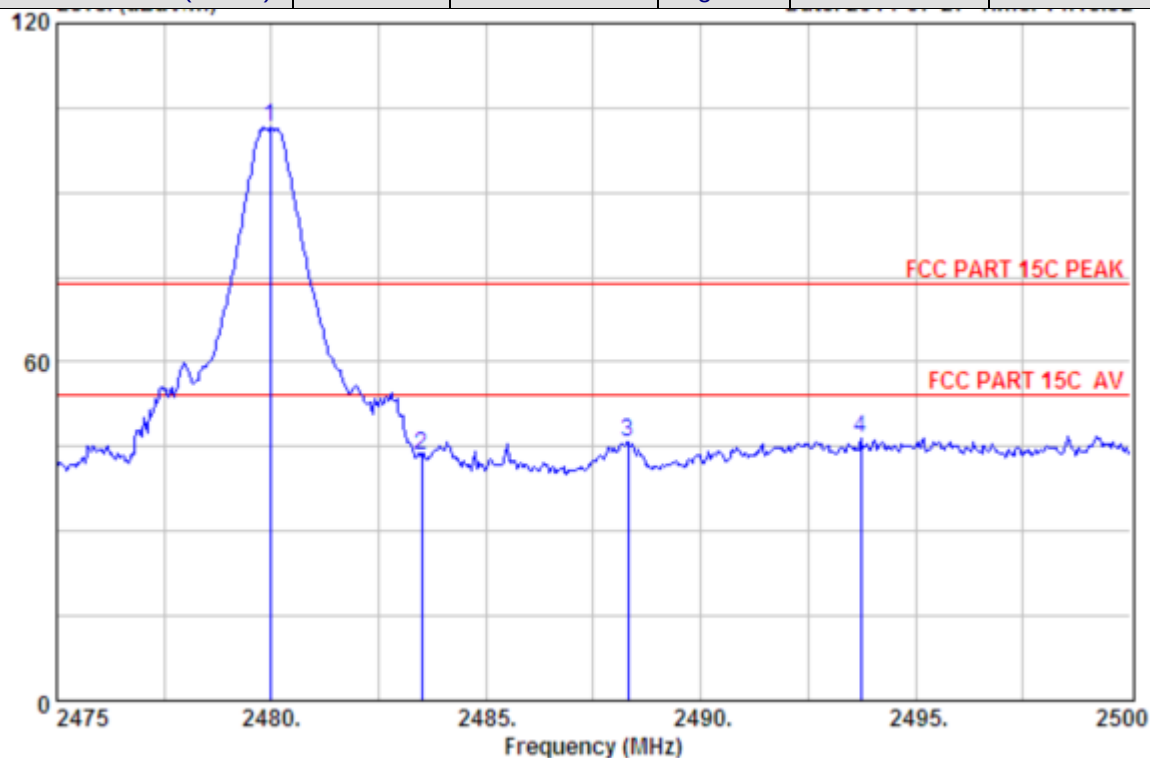
Test mode: BLE(GFSK)	2402MHz	Test channel:	Lowest	Polarization	Vertical
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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2340.92	27.70	6.56	34.22	41.98	42.02	74.00	31.98	Peak
2	2390.00	27.64	6.62	34.19	40.83	40.90	74.00	33.10	Peak
3	2401.97	27.61	6.62	34.18	104.41	104.46	74.00	-30.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

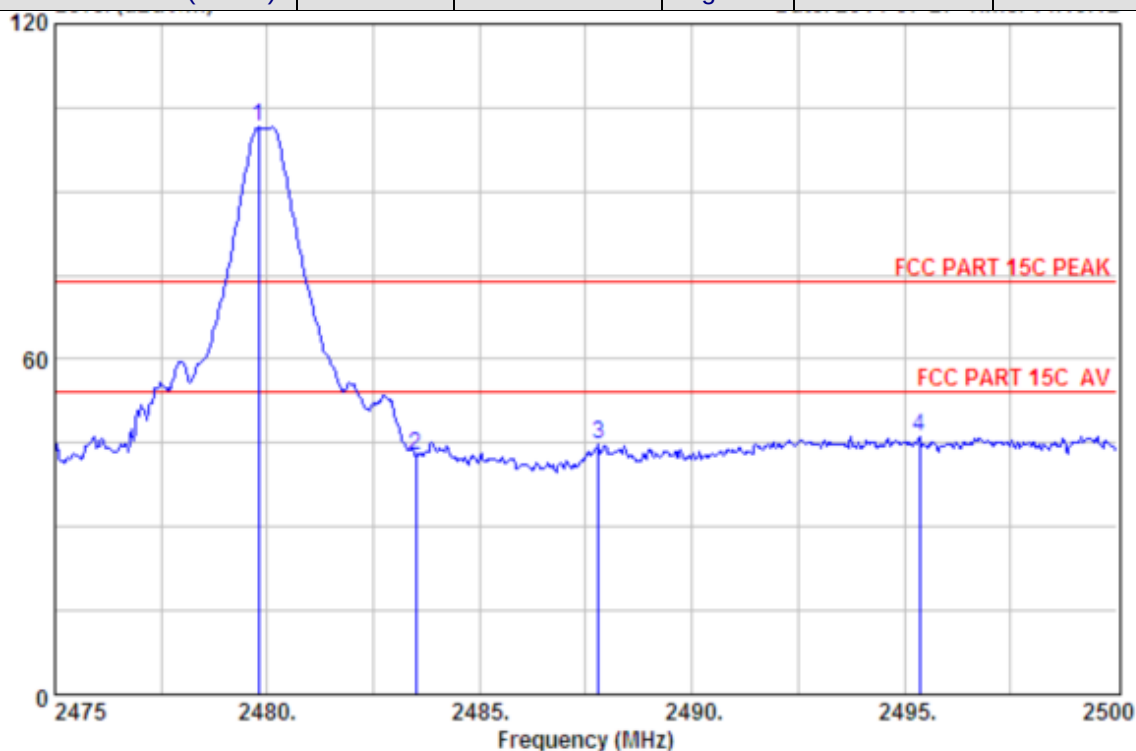
Test mode: BLE(GFSK)	2480MHz	Test channel:	Highest	Polarization	Vertical
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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	34.03	101.25	101.51	74.00	-27.51	Peak
2	2483.50	27.58	6.71	34.03	43.31	43.57	74.00	30.43	Peak
3	2488.30	27.58	6.73	34.03	45.58	45.86	74.00	28.14	Peak
4	2493.73	27.58	6.73	34.03	46.02	46.30	74.00	27.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Test mode: BLE(GFSK)	2480MHz	Test channel:	Highest	Polarization	Horizontal
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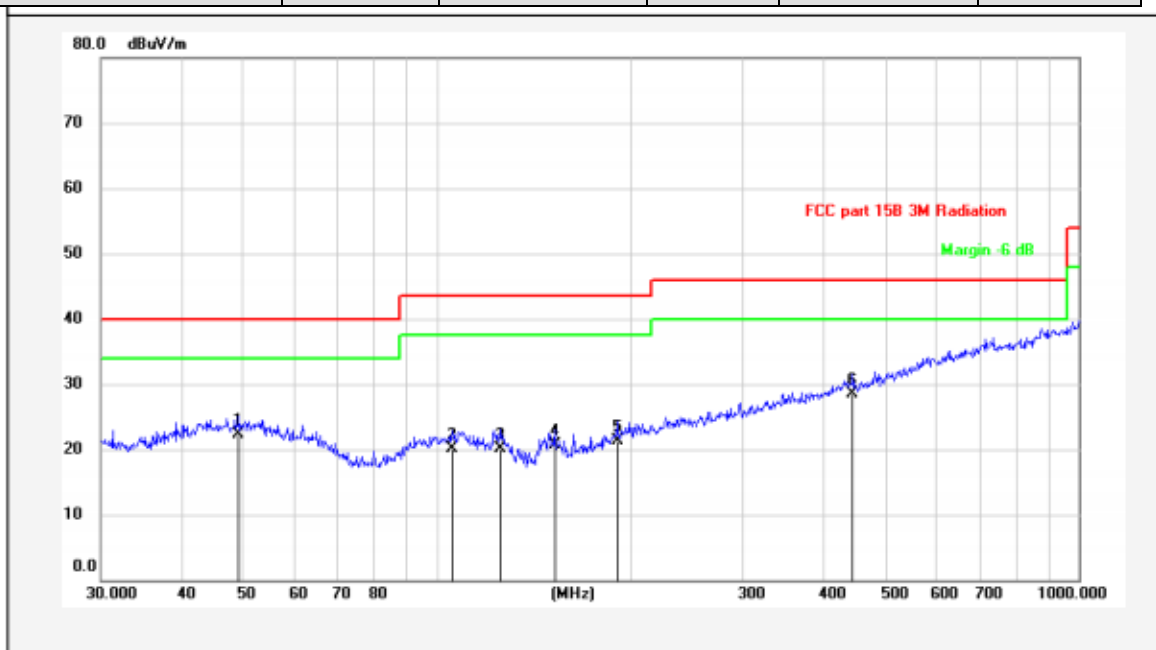


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	34.03	101.26	101.52	74.00	-27.52	Peak
2	2483.50	27.58	6.71	34.03	42.59	42.85	74.00	31.15	Peak
3	2487.80	27.58	6.73	34.03	44.51	44.79	74.00	29.21	Peak
4	2495.35	27.57	6.73	34.00	45.91	46.21	74.00	27.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

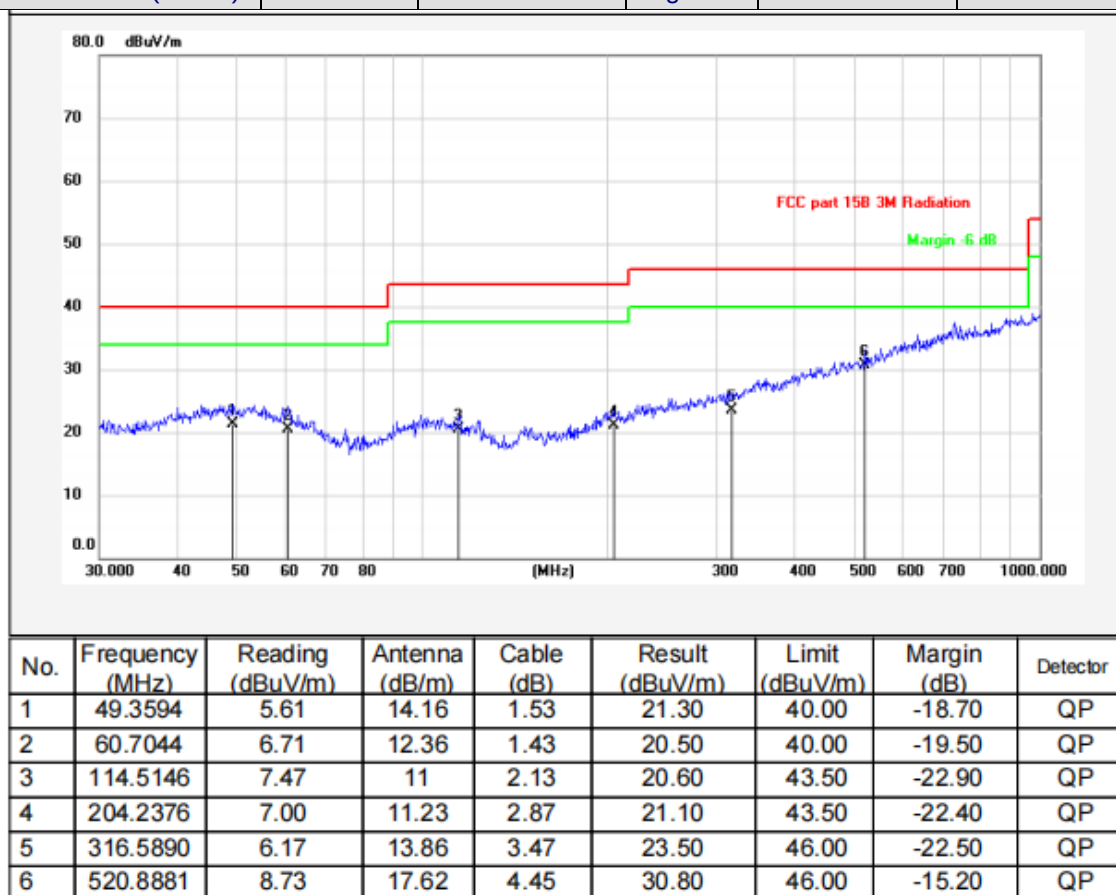
- Spurious Emission below 1GHz (30MHz to 1GHz)
- Only the worst numbers are in the report

Test mode: BLE(GFSK)	2480MHz	Test channel:	Highest	Polarization	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Cable (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.1865	6.59	14.18	1.53	22.30	40.00	-17.70	QP
2	105.6414	6.08	11.9	2.12	20.10	43.50	-23.40	QP
3	125.8863	9.10	8.8	2.3	20.20	43.50	-23.30	QP
4	152.6639	10.19	8.13	2.48	20.80	43.50	-22.70	QP
5	191.0738	8.06	10.61	2.73	21.40	43.50	-22.10	QP
6	444.8514	8.07	16.4	4.03	28.50	46.00	-17.50	QP

Test mode: BLE(GFSK)	2480MHz	Test channel:	Highest	Polarization	Vertical
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7.5 CONDUCTED EMISSION TEST

7.5.1 Applicable Standard

According to FCC Part 15.207(a)

7.5.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

7.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

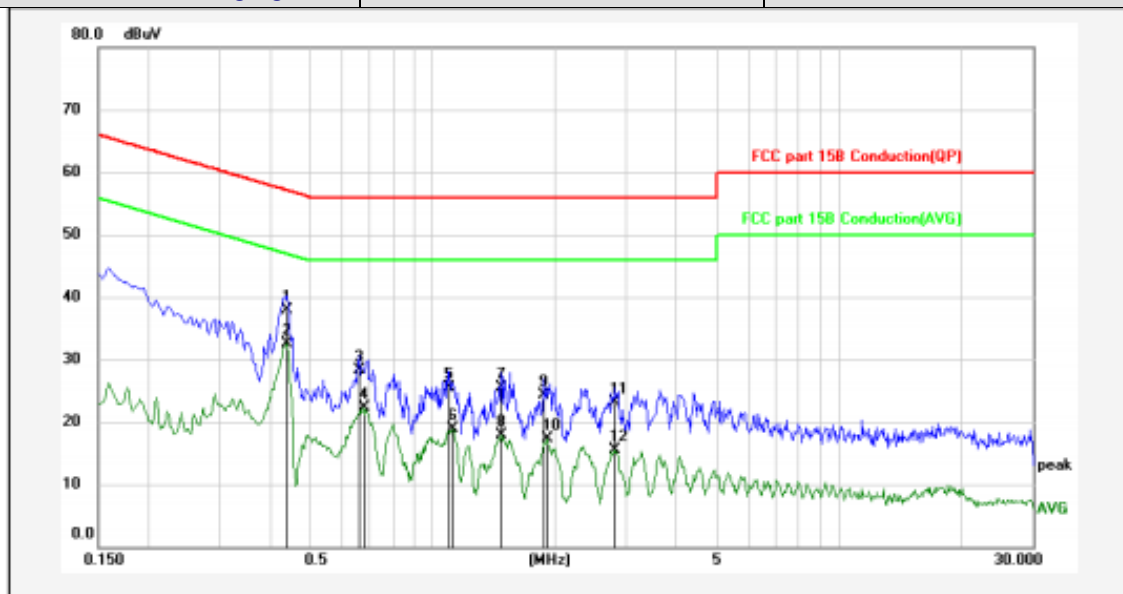
7.5.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.5.5 Test Results

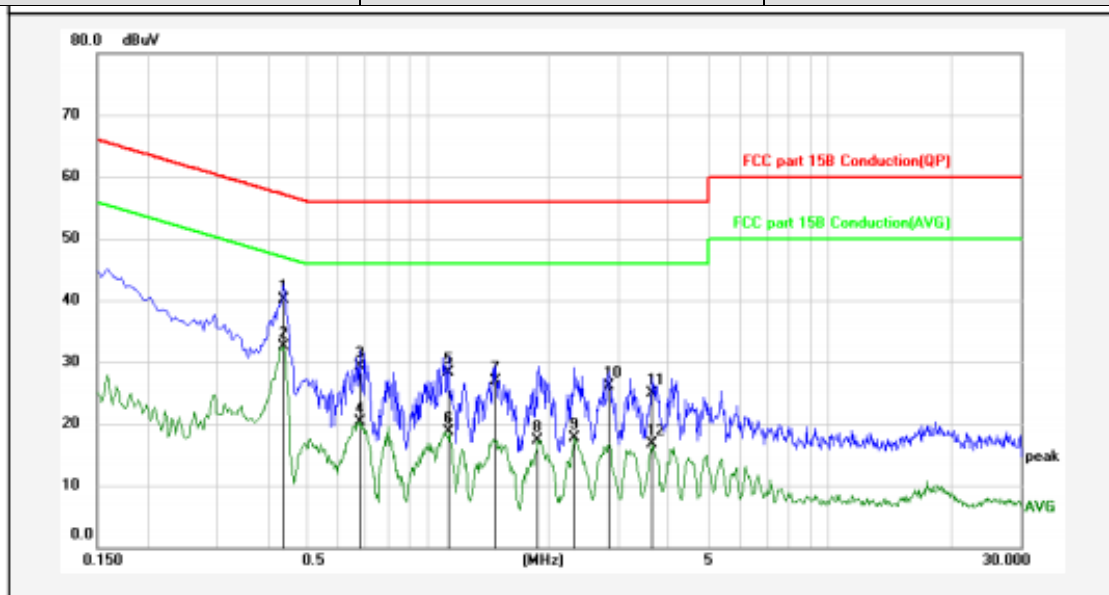
Pass

Test mode:	Charging	L
DC 5V From Charging	M/N: CT01A	



No.	Frequency (MHz)	Reading (dBuV)	Lisn/Isn (dB)	Cab_L (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.4380	27.08	10.58	0.24	37.90	57.10	-19.20	QP	
2	0.4380	21.67	10.58	0.24	32.49	47.10	-14.61	AVG	
3	0.6585	17.39	10.68	0.23	28.30	56.00	-27.70	QP	
4	0.6720	11.44	10.69	0.23	22.36	46.00	-23.64	AVG	
5	1.0948	14.57	10.7	0.23	25.50	56.00	-30.50	QP	
6	1.1173	7.96	10.7	0.23	18.89	46.00	-27.11	AVG	
7	1.4774	14.68	10.7	0.22	25.60	56.00	-30.40	QP	
8	1.4774	6.89	10.7	0.22	17.81	46.00	-28.19	AVG	
9	1.8824	13.40	10.7	0.2	24.30	56.00	-31.70	QP	
10	1.9093	6.40	10.7	0.2	17.30	46.00	-28.70	AVG	
11	2.8229	12.16	10.74	0.2	23.10	56.00	-32.90	QP	
12	2.8229	4.47	10.74	0.2	15.41	46.00	-30.59	AVG	

Test mode:	Charging	N
DC 5V From Charging	M/N: CT01A	



No.	Frequency (MHz)	Reading (dBuV)	Lisn/Isn (dB)	Cab_L (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.4380	29.38	10.58	0.24	40.20	57.10	-16.90	QP	
2	0.4380	21.75	10.58	0.24	32.57	47.10	-14.53	AVG	
3	0.6765	18.48	10.69	0.23	29.40	56.00	-26.60	QP	
4	0.6809	9.37	10.69	0.23	20.29	46.00	-25.71	AVG	
5	1.1264	17.37	10.7	0.23	28.30	56.00	-27.70	QP	
6	1.1309	7.84	10.7	0.23	18.77	46.00	-27.23	AVG	
7	1.4729	16.08	10.7	0.22	27.00	56.00	-29.00	QP	
8	1.8869	6.50	10.7	0.2	17.40	46.00	-28.60	AVG	
9	2.3322	6.80	10.72	0.2	17.72	46.00	-28.28	AVG	
10	2.8275	15.26	10.74	0.2	26.20	56.00	-29.80	QP	
11	3.6284	14.01	10.78	0.21	25.00	56.00	-31.00	QP	
12	3.6284	5.71	10.78	0.21	16.70	46.00	-29.30	AVG	

7.6 ANTENNA APPLICATION

7.6.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if 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 exceeds 6dBi.

7.6.2 Result

PASS.

The EUT has 1 antenna: a PCB Antenna for BLE with classic mode, the gain is 3.97dBi;

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

----- END OF REPORT -----

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Objections shall be raised within 20 days from the date receiving the report.