TEST REPORT

Report Number	:	TZ0108260701FRF02
Product Name	:	Green-Beam Laser Measure with Camera
Model/Type reference	:	Refer to section 1.2 of this report
FCC ID	:	2AEOGS50C
Prepared for	:	Shenzhen Mileseey Technology Co., Ltd No.3601 Block A,Tanglang Town Plaza West,Fuguang, Community, Taoyuan Street,Nanshan District,Shenzhen, 518055, China

Prepared By	:	Shenzhen Tongzhou Testing Co.,Ltd. 1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China
Standards	:	FCC CFR Title 47 Part 15C, ANSI C63.10-2020 + Cor.1-2023
Date of Test	:	2026-07-03 ~ 2026-07-14
Date of Issue	:	2026-07-14
Prepared by	:	Lena Wen
Reviewed by	:	Allen Lai
Approved by	:	Max Zhang (Authorized Officer)

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** Report Revise Record **

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-07-14	Valid	Initial release

TABLE OF CONTENTS

1. GENERAL INFORMATION 4

1.1. Client Information 4
1.2. Description of Device (EUT) 4
1.3. Wireless Function Tested in this Report 5
1.4. EUT configuration 6
1.5. Description of Test Facility 6
1.6. Statement of the Measurement Uncertainty 7
1.7. Measurement Uncertainty 7
1.8. Description of Test Modes 7
1.9. Frequency of Channels 8

2. TEST METHODOLOGY 9

2.1. EUT Configuration 9
2.2. EUT Exercise 9
2.3. Test Sample 9

3. SYSTEM TEST CONFIGURATION 10

3.1. Justification 10
3.2. EUT Exercise Software 10
3.3. Special Accessories 10
3.4. Block Diagram/Schematics 10
3.5. Equipment Modifications 10
3.6. Test Setup 10

4. SUMMARY OF TEST RESULTS 11

5. TEST RESULT 12

5.1. On Time and Duty Cycle 12
5.2. Maximum Peak Conducted Output Power Measurement 13
5.3. Power Spectral Density Measurement 14
5.4. 6 dB Spectrum Bandwidth and Occupied Channel Bandwidth Measurement 15
5.5. Radiated Emissions Measurement 16
5.6. Conducted Spurious Emissions and Band Edges Test 37
5.8. Band-edge measurements for radiated emissions 41
5.9. Antenna Requirements 46

6. LIST OF MEASURING EQUIPMENT 47

7. TEST SETUP PHOTOGRAPHS OF EUT 48

8. EXTERIOR PHOTOGRAPHS OF EUT 48

9. INTERIOR PHOTOGRAPHS OF EUT 48

1. GENERAL INFORMATION

1.1. Client Information

Applicant	:	Shenzhen Mileseey Technology co., Ltd.
Address	:	No.3601 Block A, Tanglang Town Plaza West, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen 518055, China
Manufacturer	:	Shenzhen Mileseey Technology co., Ltd.
Address	:	No.3601 Block A, Tanglang Town Plaza West, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen 518055, China
Factory	:	Huizhou Mileseey Technology Co., Ltd.
Address	:	Floor 2 & 3 of Intelliget Tower, Innovation Park of Tongh uEcological Smart Zone, Zhongkai Six Road #137, Chenjiang Avenue, Zhongkai High-tech Area, 516029 Huizhou, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	Green-Beam Laser Measure with Camera
Trade Mark	:	/
Model Number	:	S50C, S50C Pro, S50C Lite, S50R, S70C, S90C, S10C, S30C, S50GC, S52C, S55C, S58C, S60C, S50V, S50P, S50IC, S50XC, S50LC, SC50, SV50, SL50C, View50C, Lens50S, Scope C50, VisionS50, S50C Vision
Model Declaration	:	The difference lies only in the color and the marketing purpose of the different models.
Test Model	:	S50C
Power Supply	:	DC 3.7V by battery or DC 5V/2A by adapter
Battery	:	Model: ABD 703448-2P Rated Voltage: 3.7 Vdc Rated Capacity: 2400 mAh 8.88 Wh
Hardware version	:	V1.0
Software version	:	V1.0

1.3. Wireless Function Tested in this Report

Bluetooth Low Energy	
Operation Frequency	: 2402 – 2480 MHz
Channel Number	: 40 Channels for BLE (DTS)
Modulation Technology	: GFSK
Data Rates	: 1Mbps
Antenna Type And Gain	: Multilayer chip antenna, 2.7dBi

Note 1: Antenna position refer to EUT Photos.
Note 2: the above information was supplied by the applicant.

1.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:
●supplied by the manufacturer

○supplied by the lab

○	Adapter	Model:	MDY-10-EH
		Input:	Input 100-240V\AC 50/60Hz 0.7A
		Output:	Output 5V-3A
		Manufacturer:	Beijing Xiaomi Technology Co., Ltd

1.5. Description of Test Facility

FCC

Designation Number: CN1275
Test Firm Registration Number: 167722
Shenzhen Tongzhou Testing Co.,Ltd has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA

Certificate Number: 5463.01
Shenzhen Tongzhou Testing Co.,Ltd has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

IC

ISED#: 22033
CAB identifier: CN0099
Shenzhen Tongzhou Testing Co.,Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4 and CISPR 16-1-4:2010

1.6. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Shenzhen Tongzhou Testing Co.,Ltd’s quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item		Uncertainty	Note
Radiation Uncertainty(9KHz~30MHz)	:	±3.26dB	(1)
Radiation Uncertainty(30MHz~1000MHz)	:	±3.92dB	(1)
Radiation Uncertainty(1GHz~40GHz)	:	±5.62dB	(1)
Conduction Uncertainty	:	±2.71dB	(1)
Occupied Channel Bandwidth	:	±3.0%	(1)
RF power, conducted	:	±0.16dB	(1)
Power Spectral Density, conducted	:	±1.3dB	(1)
Unwanted Emissions, conducted	:	±1.3dB	(1)
Time	:	±1.0%	(1)
Duty Cycle	:	±3.0%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position. Pre-test AC conducted emission at power adapter mode.

The worst-case configuration for the 150 kHz to 30 MHz power line conducted emissions test was determined to be the charging mode, and the results are recorded in this report. The device is designed such that normal operation is disabled while the battery is being charged; therefore, simultaneous charging and operation are not supported.

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be **1Mbps high channel.**

1.9. Frequency of Channels

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

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020 + Cor.1-2023, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen Tongzhou Testing Co.,Ltd

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 that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.
According to FCC's request, Test Procedure KDB558074 D01 DTS Meas. Guidance v05r02 and KDB 662911 are required to be used for this kind of FCC 15.247 digital modulation device.
According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. Test Sample

Sample ID	Description
TZ0108260701–1#	Engineer sample – continuous transmit
TZ0108260701–2#	Normal sample – Intermittent transmit

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

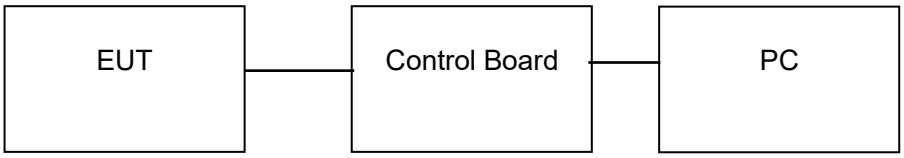
The system was configured for Bluetooth testing in a continuous transmits condition and change test channels by engineer mode (SmartSnippets Toolbox v5.0.24.4128 at power level 8) provided by application.

3.3. Special Accessories

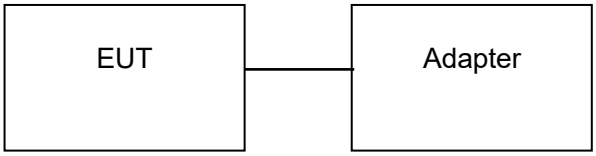
No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	PC	ASUS	X454L	15105-0038A100	/	/	/
2	Control Board	Youxin	USB-TTL	/	/	/	/

3.4. Block Diagram/Schematics

RF Conducted Test



Conducted Emission at AC Port



Radiated Emission

3.5. Equipment Modifications

Shenzhen Tongzhou Testing Co.,Ltd has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Sample ID	Result
§15.247(b)	Maximum Peak Conducted Output Power	TZ0108260601–1#	Compliant
§15.247(e)	Power Spectral Density	TZ0108260601–1#	Compliant
§15.247(a)(2)	Bandwidth	TZ0108260601–1#	Compliant
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	TZ0108260601–1# TZ0108260601–2#	Compliant
§15.205	Emissions at Restricted Band	TZ0108260601–1#	Compliant
§15.207(a)	Conducted Emissions	TZ0108260601–2#	Compliant
§15.203	Antenna Requirements	TZ0108260601–1#	Compliant

Remark: The measurement uncertainty is not included in the test result.

5. TEST RESULT

5.1. On Time and Duty Cycle

5.1.1. Standard Applicable

None. for reporting purpose only.

5.1.2. Block Diagram of Test Setup

5.1.3. Test Procedures

1. Set the center frequency of the spectrum analyzer to the transmitting frequency.
2. Set the span=0MHz, RBW to the largest available value, VBW≥RBW
3. Detector = peak.
4. Trace mode = Single hold.

5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result

Pass

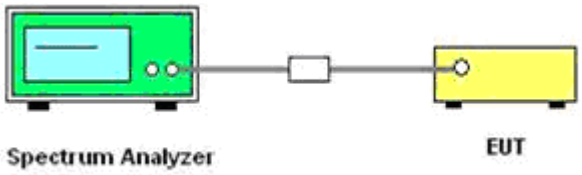
Remark:
1. Please refer to Appendix G of Appendix Test Data for BLE for test data.

5.2. Maximum Peak Conducted Output Power Measurement

5.2.1. Standard Applicable

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.

5.2.2. Block Diagram of Test Setup



5.2.3. Test Procedures

The transmitter output (antenna port) was connected to the spectrum analyzer.
According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power 9.1.1.
This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ 3 × RBW.
c) Set span ≥ 3 x RBW
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result

Pass

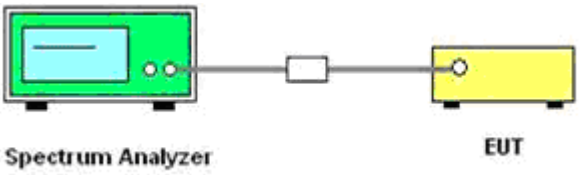
Remark:
1. Test results including cable loss.
2. Please refer to Appendix C of Appendix Test Data for BLE for test data.

5.3. Power Spectral Density Measurement

5.3.1. 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.

5.3.2. Block Diagram of Test Setup



5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 3kHz.
4. Set the VBW ≥ 3*RBW
5. Set the span to 1.5 times the DTS channel bandwidth.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum power level.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
12. The resulting peak PSD level must be less than 8dBm.

5.3.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.5. Test Result

Pass

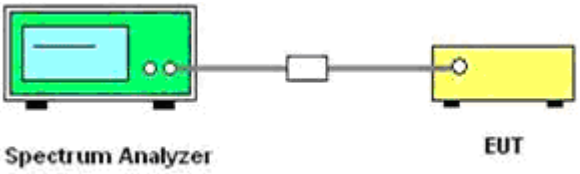
Remark:
1. Test results including cable loss.
2. Please refer to Appendix D of Appendix Test Data for BLE for test data.

5.4. 6 dB Spectrum Bandwidth and Occupied Channel Bandwidth Measurement

5.4.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.4.2. Block Diagram of Test Setup



5.4.3. Test Procedures

6dB Spectrum Bandwidth Test Procedure:
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to C63.10 11.8.1.
3. Measured the spectrum width with power higher than 6dB below carrier.

Occupied Bandwidth Spectrum Bandwidth Test Procedure:
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to C63.10 6.9.3
3. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.4.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.5. Test Result

Pass

Remark:
1. Test results including cable loss.
2. Please refer to Appendix A/B of Appendix Test Data for BLE for test data.

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.Android 10-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.
\2\ Above 38.6
According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.5.2. Measuring Instruments and Setting

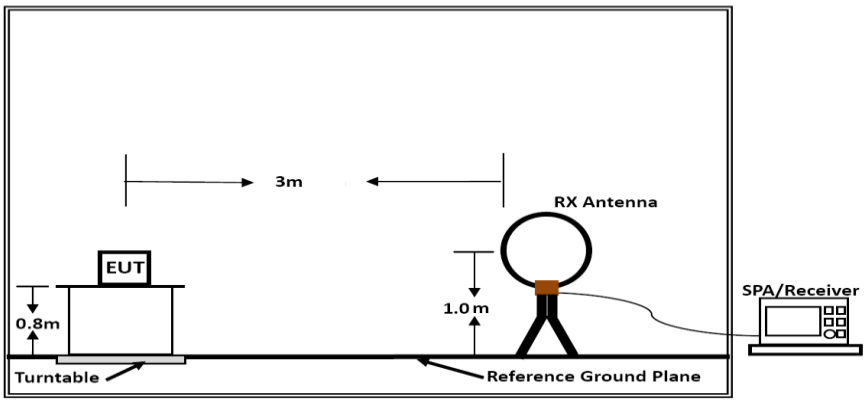
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average

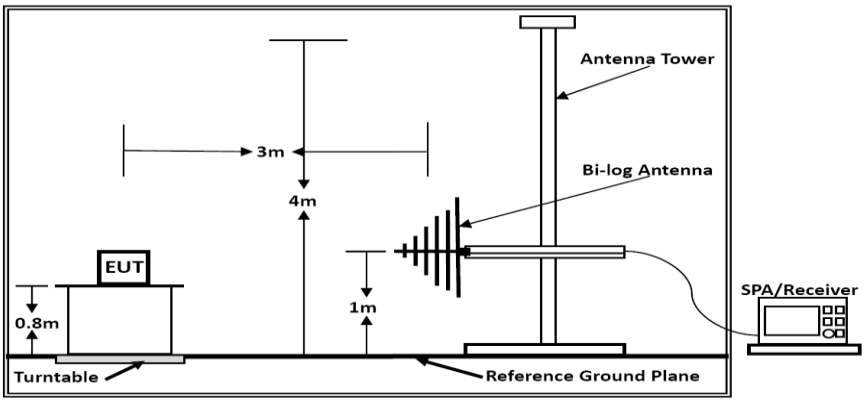
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.5.3. Block Diagram of Test Setup

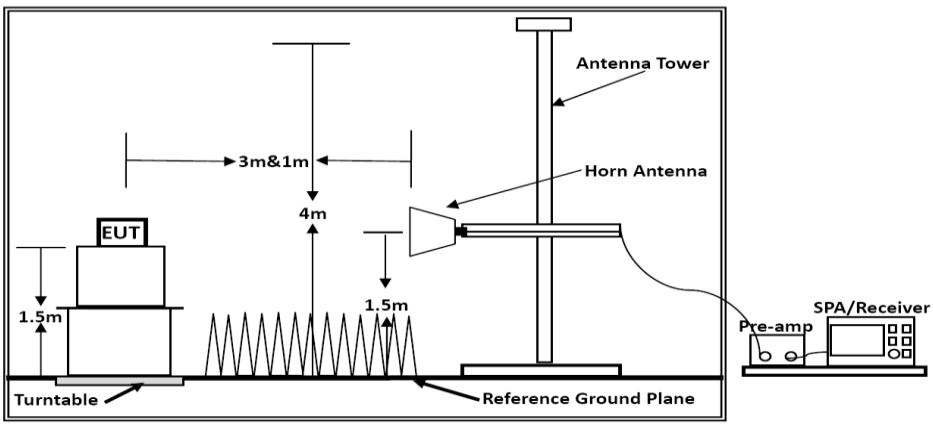
For radiated emissions below 30MHz



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.
Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1m]) (dB).
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.4. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:
--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.
Premeasurement:
--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna height is 1.0 meter.
--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions
Final measurement:
--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:
--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.
Premeasurement:
--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna is polarized vertical and Horizontal.
--- The antenna height changes from 1 to 3 meter.
--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.
Final measurement:
--- The final measurement will be performed with minimum the six highest peaks.
--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
--- The final measurement will be done with QP detector with an EMI receiver.
--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 40 GHz

Setup:
--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna is polarized vertical and Horizontal.
--- The antenna height scan range is 1 meter to 2.5 meter.
--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.
--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meters. This procedure is repeated for both antenna polarizations.
--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 1 meter.
--- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

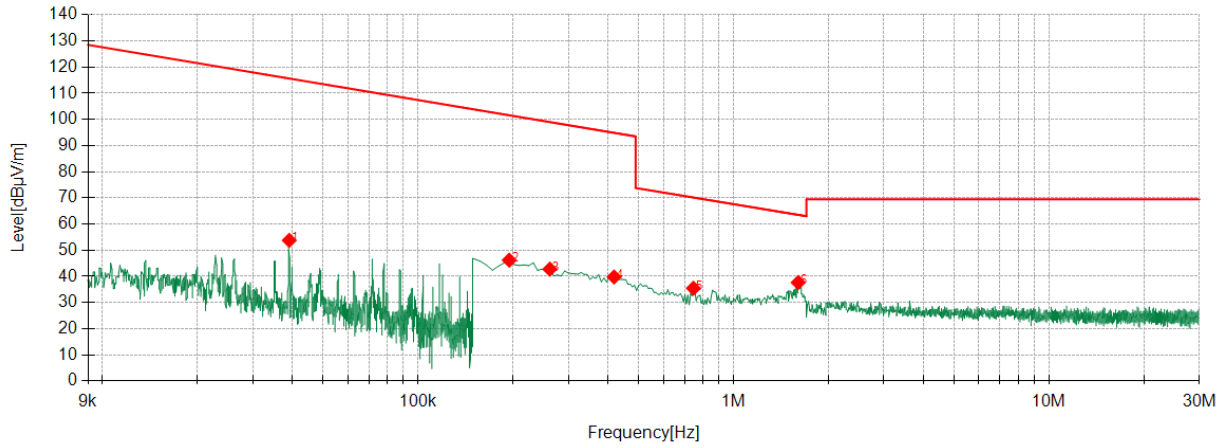
5.5.6. Test Results

Pass

Results of Radiated Emissions (9 KHz~30MHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	BT LE
Test Volgate	DC 3.7V	/	/

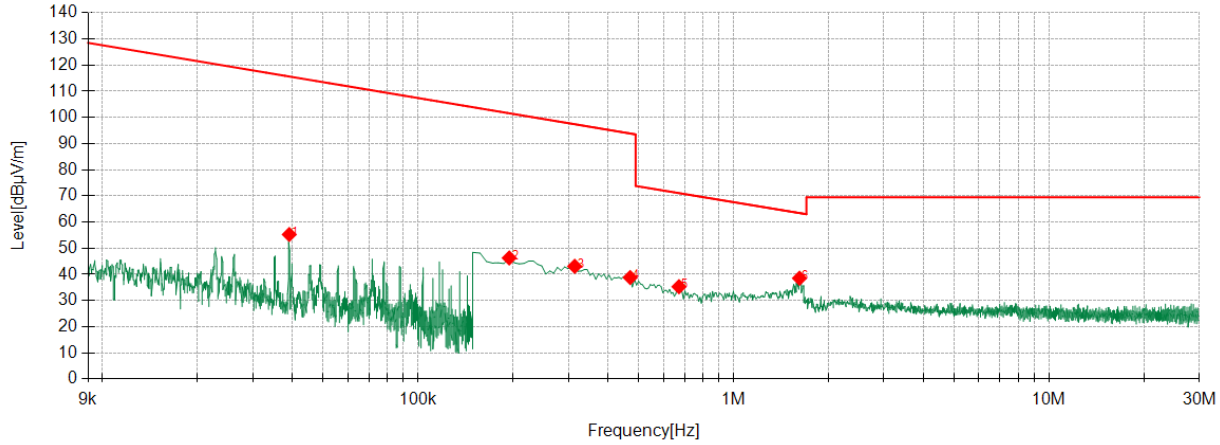
Coaxial:



NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.039104	33.74	20.04	53.78	115.64	61.86	100	10
2	0.194775	26.19	20.02	46.21	101.58	55.37	100	90
3	0.261938	22.71	20.06	42.77	98.98	56.21	100	350
4	0.41865	19.62	20.16	39.78	94.88	55.10	100	10
5	0.747	15.18	20.28	35.46	70.15	34.69	100	10
6	1.605188	17.35	20.31	37.66	63.52	25.86	100	80

Note:
Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
Limit line = specific limits (dBuV) + distance extrapolation factor.

Coplanar:



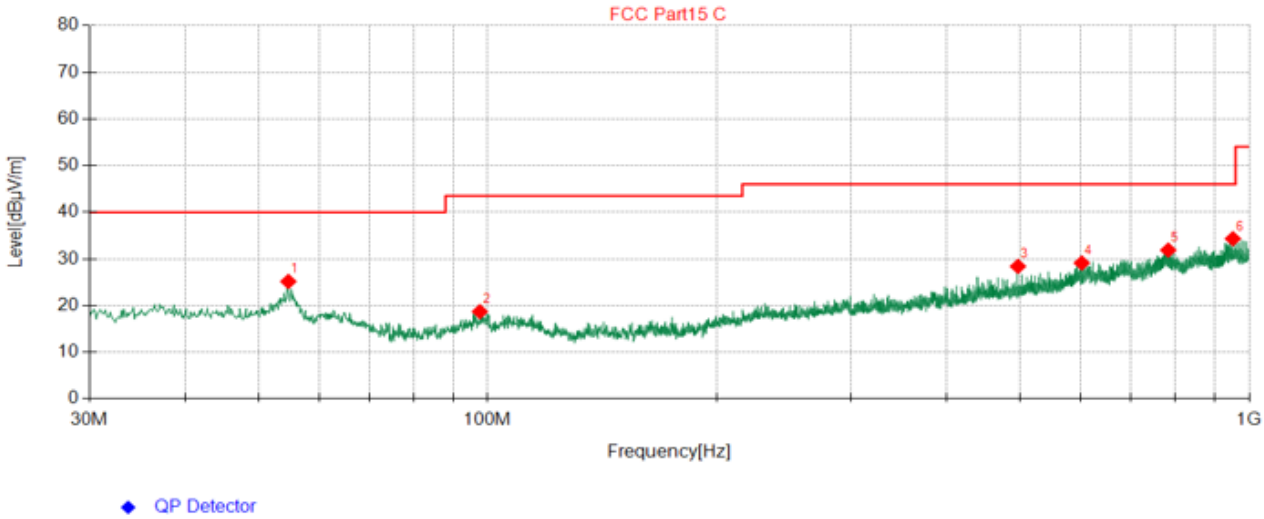
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.039104	35.19	20.04	55.23	115.64	60.41	100	10
2	0.194775	26.25	20.02	46.27	101.58	55.31	100	350
3	0.314175	23.00	20.09	43.09	97.39	54.30	100	240
4	0.470888	18.61	20.19	38.80	93.85	55.05	100	350
5	0.672375	15.03	20.26	35.29	71.06	35.77	100	350
6	1.620113	18.22	20.31	38.53	63.44	24.91	100	120

Note:
Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
Limit line = specific limits (dBuV) + distance extrapolation factor.

Results of Radiated Emissions (30MHz~1GHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	BT LE
Test Volgate	DC 3.7V	/	/

Vertical

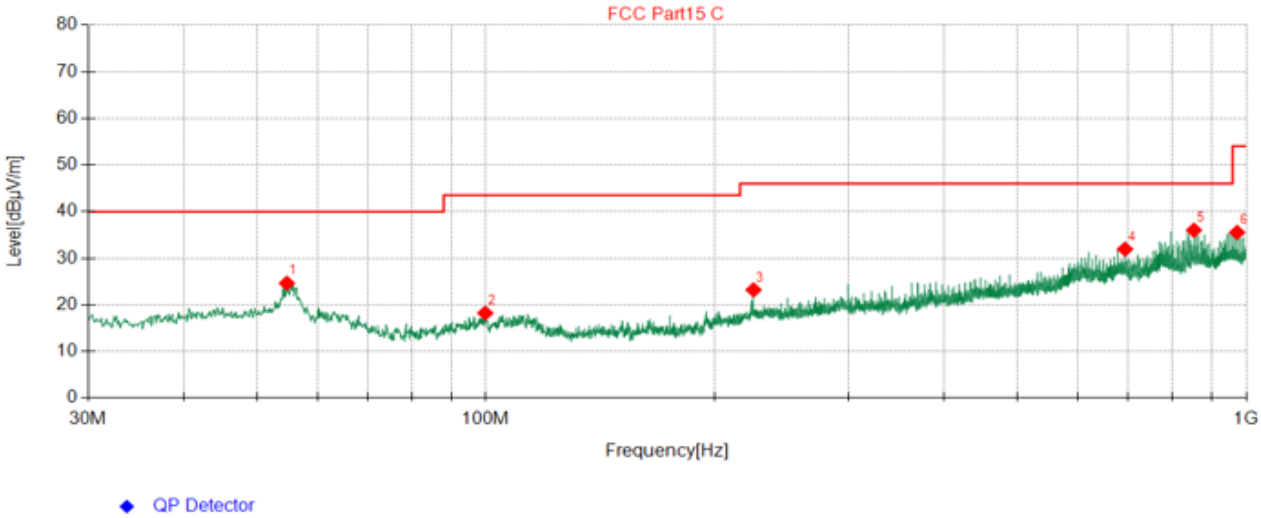


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.73	10.60	14.55	25.15	40.00	14.85	100	353	Vertical
2	97.65	6.54	12.15	18.69	43.50	24.81	100	291	Vertical
3	497.0	8.15	20.24	28.39	46.00	17.61	100	360	Vertical
4	603.0	6.62	22.49	29.11	46.00	16.89	100	159	Vertical
5	783.2	6.50	25.37	31.87	46.00	14.13	100	219	Vertical
6	952.1	7.36	26.95	34.31	46.00	11.69	100	19	Vertical

***Note:
1. Level [dBµV/m] = Reading [dBµV] + Factor [dB/m]
2. Margin [dB] = Limit [dBµV/m] - Level [dBµV/m]

Horizontal



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.73	10.07	14.55	24.62	40.00	15.38	100	306	Horizontal
2	99.84	5.02	13.20	18.22	43.50	25.28	100	82	Horizontal
3	224.9	9.22	13.99	23.21	46.00	22.79	100	350	Horizontal
4	692.9	8.02	23.92	31.94	46.00	14.06	100	78	Horizontal
5	854.0	10.01	25.99	36.00	46.00	10.00	100	288	Horizontal
6	973.0	8.46	27.07	35.53	54.00	18.47	100	281	Horizontal

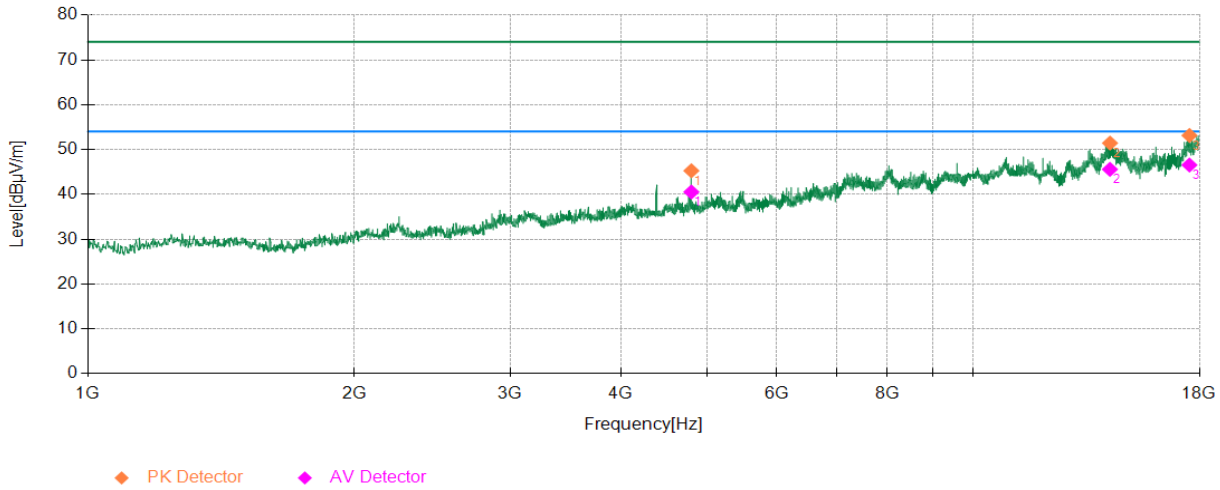
***Note:
1. Level [dBµV/m] = Reading [dBµV] + Factor [dB/m]
2. Margin [dB] = Limit [dBµV/m] - Level [dBµV/m]

Results for Radiated Emissions (1GHz to 18GHz)

Temperature	24℃	Humidity	55.2%
Test Engineer	Tony Luo	Configurations	BT LE
Test Voltage	DC 3.7V	/	/

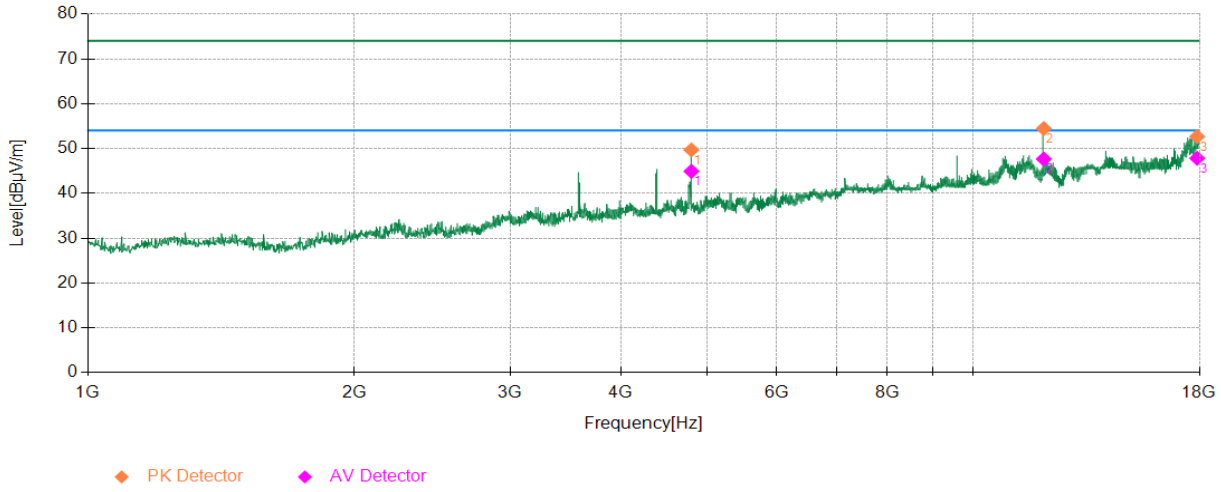
Remark: Measured all modes and recorded worst case.

LE1M_ANT1_2402_1Mbps



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4802.9	50.48	-5.22	45.26	74.00	28.74	145	342	Horizontal
2	14268.5	42.34	9.09	51.43	74.00	22.57	169	238	Horizontal
3	17544.4	41.81	11.33	53.14	74.00	20.86	223	221	Horizontal

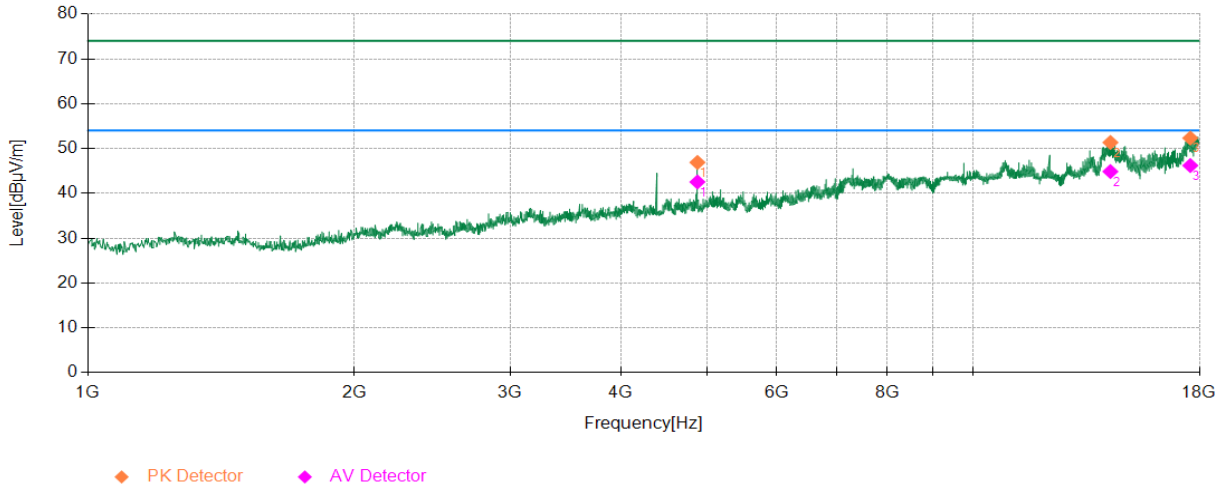
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4802.9	45.74	-5.22	40.52	54.00	13.48	145	342	Horizontal
2	14268.5	36.49	9.09	45.58	54.00	8.42	169	238	Horizontal
3	17544.4	35.21	11.33	46.54	54.00	7.46	223	221	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4802.9	54.91	-5.22	49.69	74.00	24.31	132	122	Vertical
2	12009.2	50.01	4.44	54.45	74.00	19.55	159	145	Vertical
3	17898	39.61	13.07	52.68	74.00	21.32	193	4	Vertical

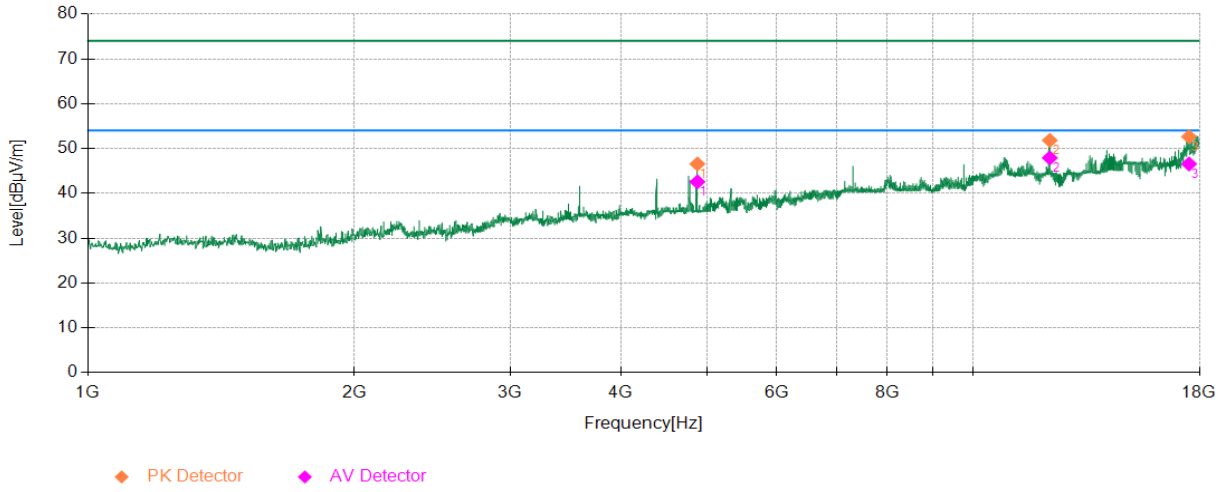
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4802.9	50.13	-5.22	44.91	54.00	9.09	132	122	Vertical
2	12009.2	43.22	4.44	47.66	54.00	6.34	159	145	Vertical
3	17898	34.75	13.07	47.82	54.00	6.18	193	4	Vertical

LE1M_ANT1_2440_1Mbps:



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.4	51.67	-4.78	46.89	74.00	27.11	116	264	Horizontal
2	14283.8	42.2	9.14	51.34	74.00	22.66	216	354	Horizontal
3	17581.8	40.99	11.34	52.33	74.00	21.67	169	122	Horizontal

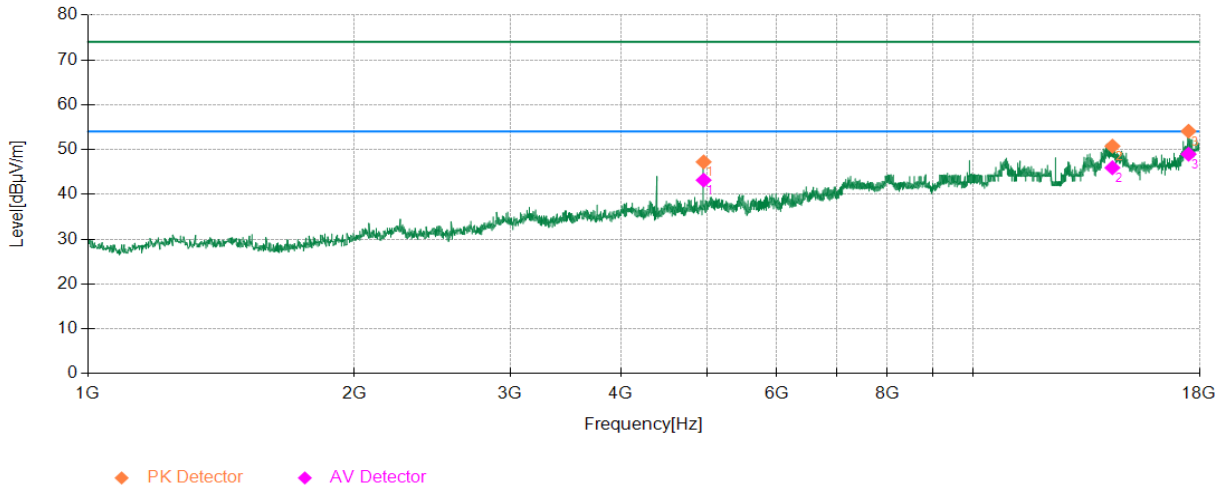
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.4	47.32	-4.78	42.54	54.00	11.46	116	264	Horizontal
2	14283.8	35.72	9.14	44.86	54.00	9.14	216	354	Horizontal
3	17581.8	34.86	11.34	46.20	54.00	7.80	169	122	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.4	51.34	-4.78	46.56	74.00	27.44	167	218	Vertical
2	12201.3	47.11	4.71	51.82	74.00	22.18	192	141	Vertical
3	17525.7	41.3	11.33	52.63	74.00	21.37	185	319	Vertical

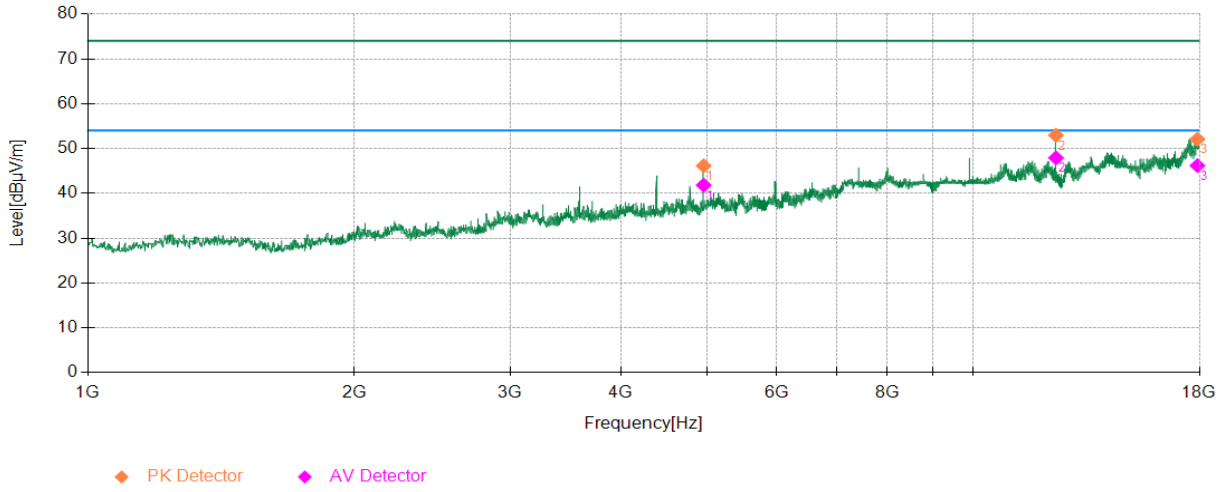
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.4	47.35	-4.78	42.57	54.00	11.43	167	218	Vertical
2	12201.3	43.19	4.71	47.90	54.00	6.10	192	141	Vertical
3	17525.7	35.22	11.33	46.55	54.00	7.45	185	319	Vertical

LE1M_ANT1_2480_1Mbps:



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.3	52.13	-4.90	47.23	74.00	26.77	227	45	Horizontal
2	14358.6	41.57	9.18	50.75	74.00	23.25	183	179	Horizontal
3	17501.9	42.76	11.32	54.08	74.00	19.92	169	3	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.3	48.06	-4.90	43.16	54.00	10.84	227	45	Horizontal
2	14358.6	36.75	9.18	45.93	54.00	8.07	183	179	Horizontal
3	17501.9	37.64	11.32	48.96	54.00	5.04	169	3	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.3	51.05	-4.90	46.15	74.00	27.85	159	122	Vertical
2	12398.5	48.94	4.02	52.96	74.00	21.04	186	52	Vertical
3	17911.6	38.94	13.12	52.06	74.00	21.94	143	271	Vertical

AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.3	46.72	-4.90	41.82	54.00	12.18	159	122	Vertical
2	12398.5	43.89	4.02	47.91	54.00	6.09	186	52	Vertical
3	17911.6	33.06	13.12	46.18	54.00	7.82	143	271	Vertical

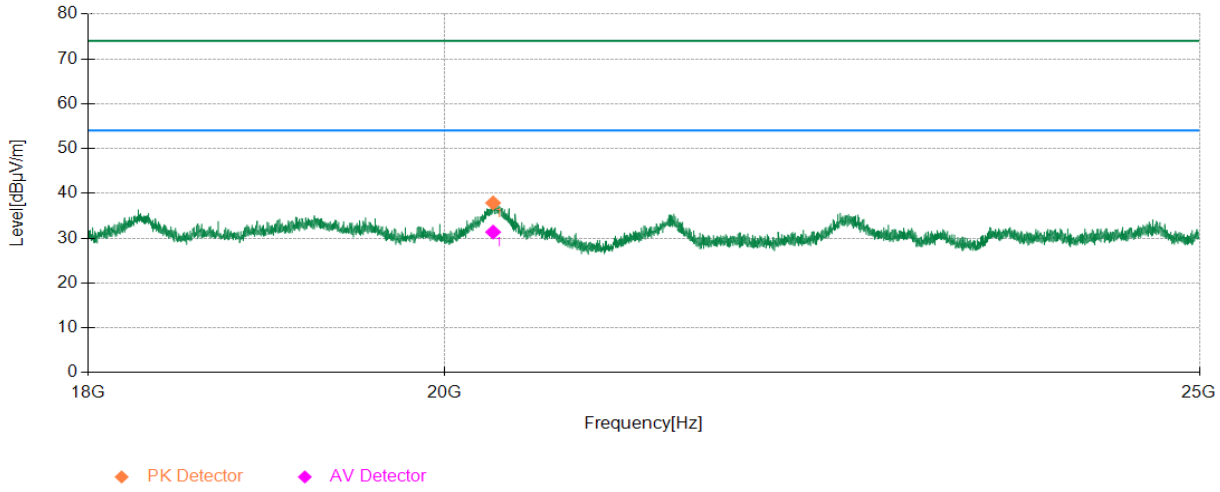
Notes:
Factor = Ant. Fac - Pre. Fac. + Cab. Loss.
Margin = Limit – Level.

Results for Radiated Emissions (18GHz to 25GHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Allen Lai	Configurations	BT LE
Test Voltage	DC 3.7V	/	/

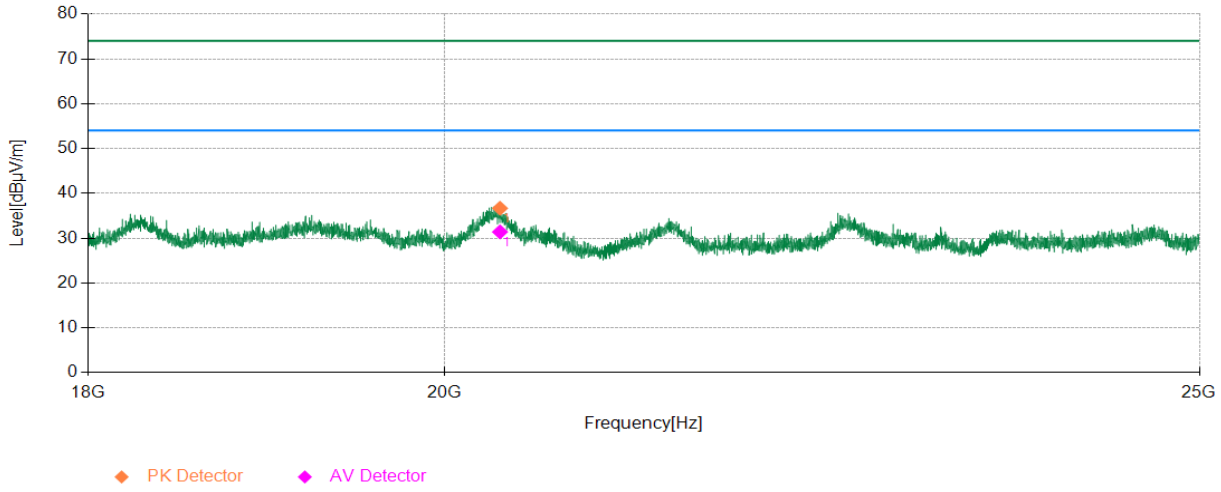
Remark: Measured all modes and recorded worst case.

LE1M_ANT1_2402_1Mbps:



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20289.875	41.76	-3.89	37.87	74.00	36.13	143	232	Horizontal

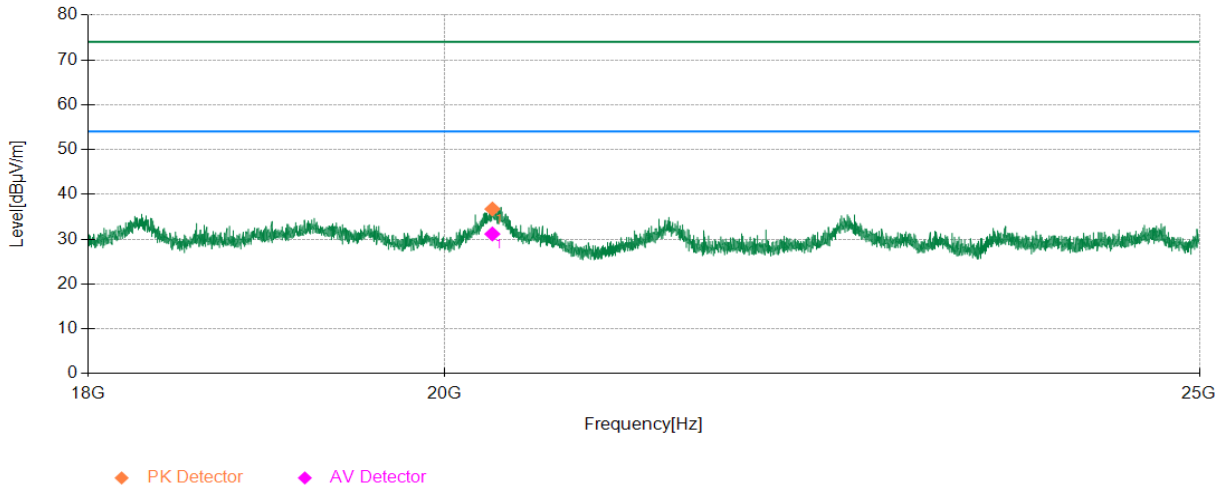
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20289.875	35.26	-3.89	31.37	54.00	22.63	143	232	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20331.2	40.54	-3.87	36.67	74.00	37.33	169	310	Vertical

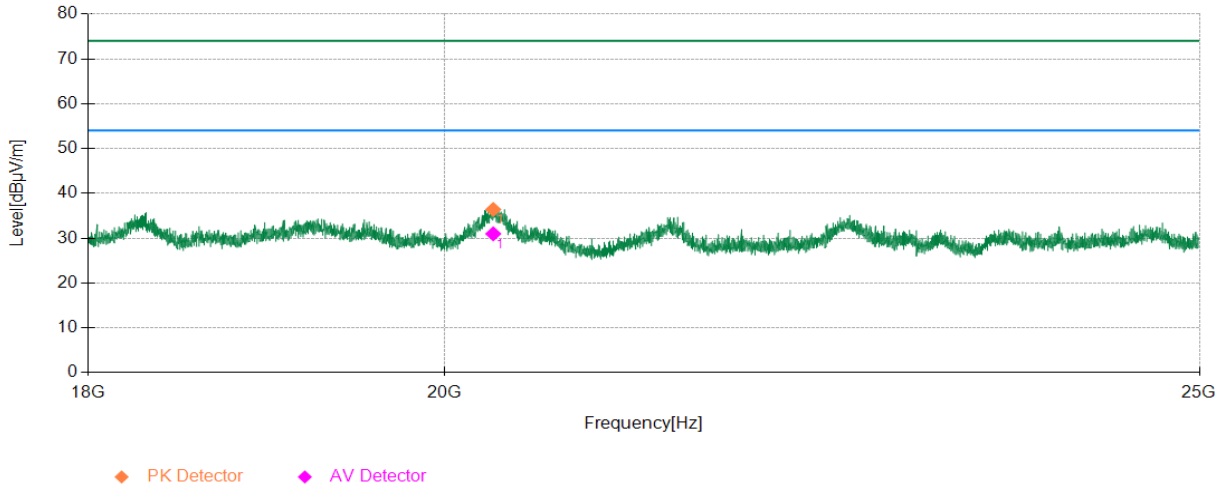
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20331.2	35.27	-3.87	31.40	54.00	22.60	169	310	Vertical

LE1M_ANT1_2440_1Mbps:



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20285.5	40.63	-3.90	36.73	74.00	37.27	162	283	Horizontal

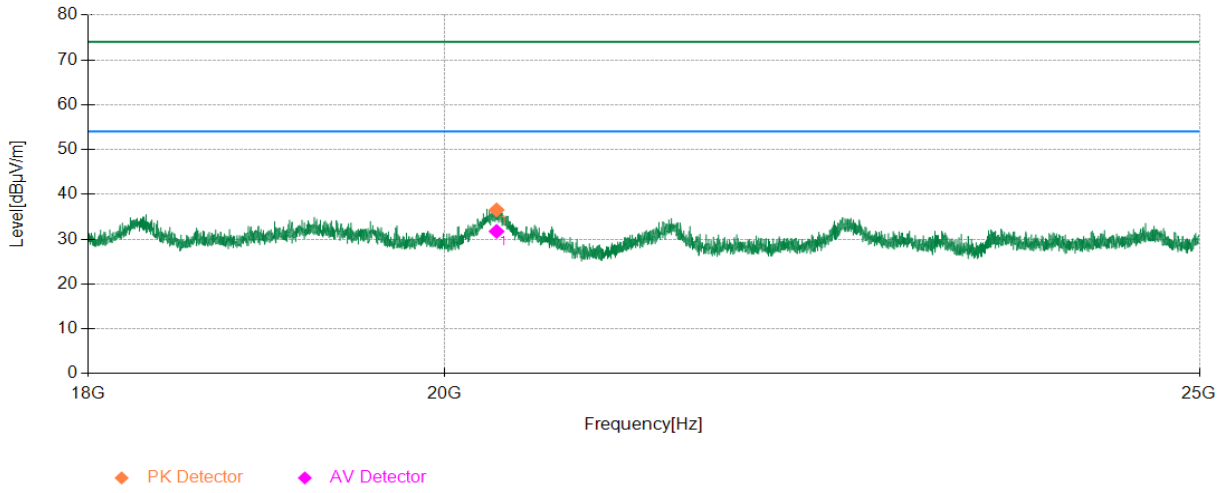
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20285.5	35.06	-3.90	31.16	54.00	22.84	162	283	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20290.75	40.3	-3.89	36.41	74.00	37.59	192	281	Vertical

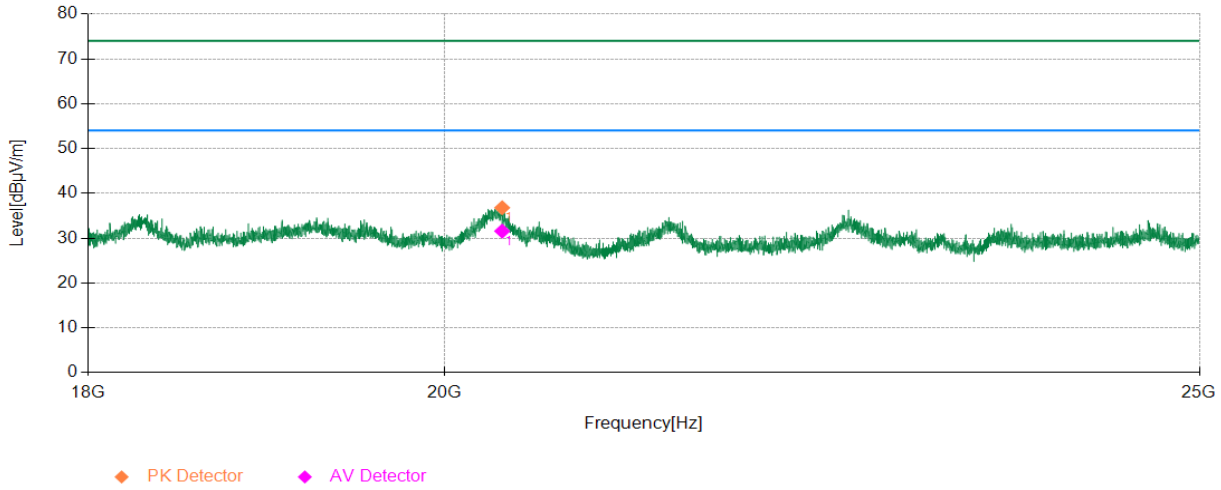
AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20290.75	34.86	-3.89	30.97	54.00	23.03	192	281	Vertical

LE1M_ANT1_2480_1Mbps:



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20310.875	40.4	-3.88	36.52	74.00	37.48	159	256	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20310.875	35.62	-3.88	31.74	54.00	22.26	159	256	Horizontal



PK Final Data List									
NO.	Freq. [MHz]	PK Reading [dBµV]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20344.125	40.65	-3.86	36.79	74.00	37.21	168	133	Vertical

AV Final Data List									
NO.	Freq. [MHz]	AV Reading [dBµV]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20344.125	35.43	-3.86	31.57	54.00	22.43	168	133	Vertical

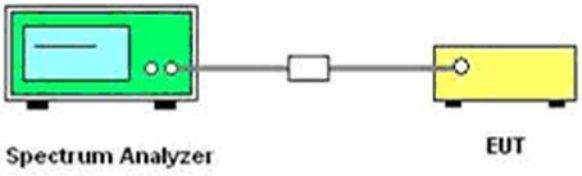
Notes:
Factor = Ant. Fac - Pre. Fac. + Cab. Loss.
Margin = Limit – Level.

5.6. Conducted Spurious Emissions and Band Edges Test

5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Block Diagram of Test Setup



5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz
The spectrum from 9 KHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.6.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.5. Test Results

PASS

Remark:
1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.
2. Not recorded values as emission level lower than limit at least 20 dBc.
3. Please refer to Appendix F of Appendix Test Data for BLE.for Conducted Spurious Emissions for test data.
4. Please refer to Appendix E of Appendix Test Data for BLE for Conducted Band Edges for test data.

5.7. AC Power line conducted emissions

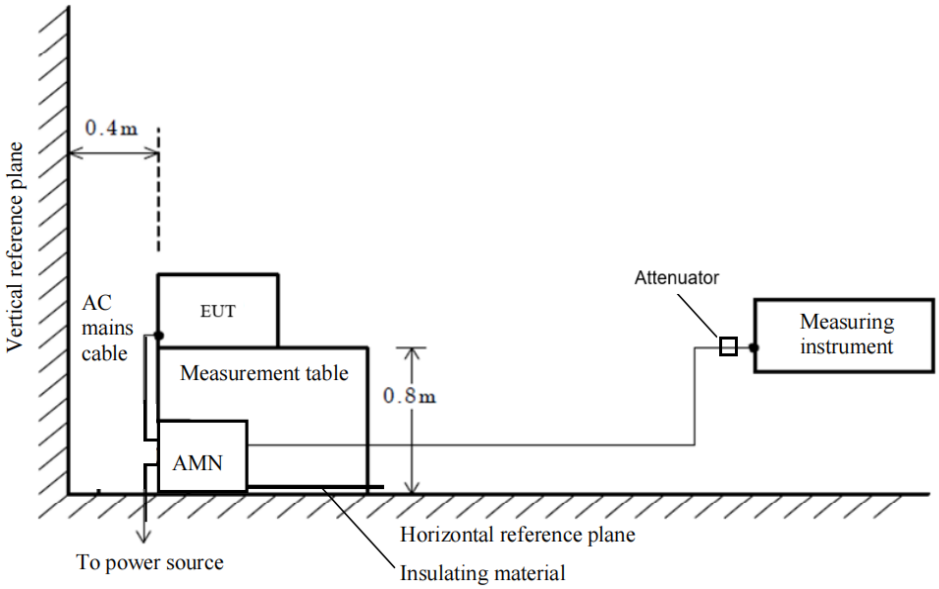
5.7.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	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

* Decreasing linearly with the logarithm of the frequency

5.7.2. Block Diagram of Test Setup



Note: the distance between LISN and Vertical reference plane is 40 cm and the distance between LISN and EUT is 80 cm.

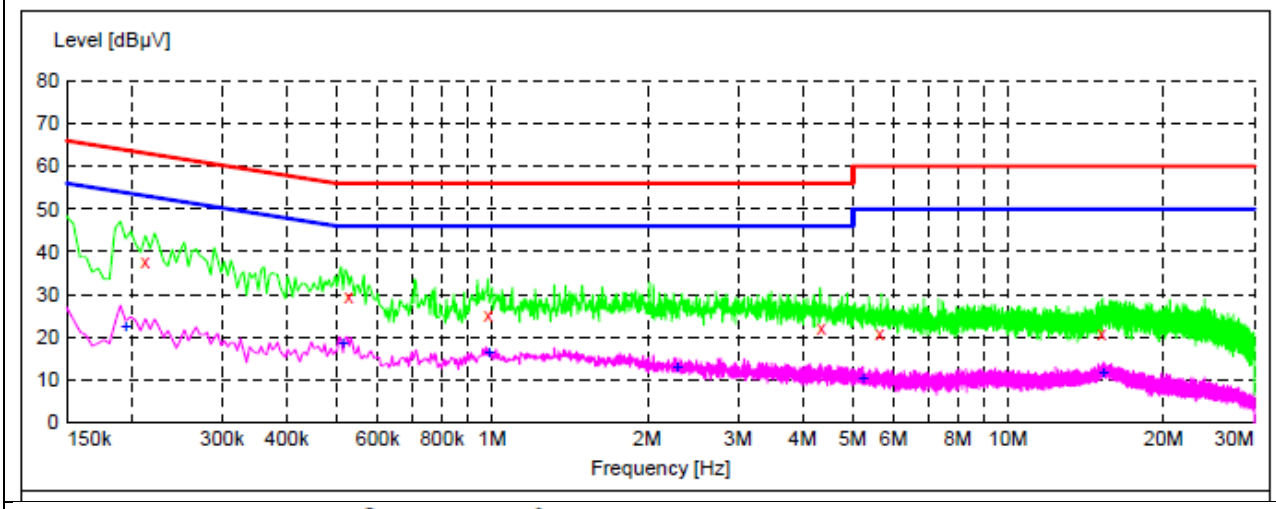
5.7.3. Test Results

Temperature	22.5℃	Humidity	56%
Test Engineer	Allen Lai	Configurations	Charging
Test Volgate	AC 120V/60Hz	/	/

PASS

The test data please refer to following page.

Neutral Line

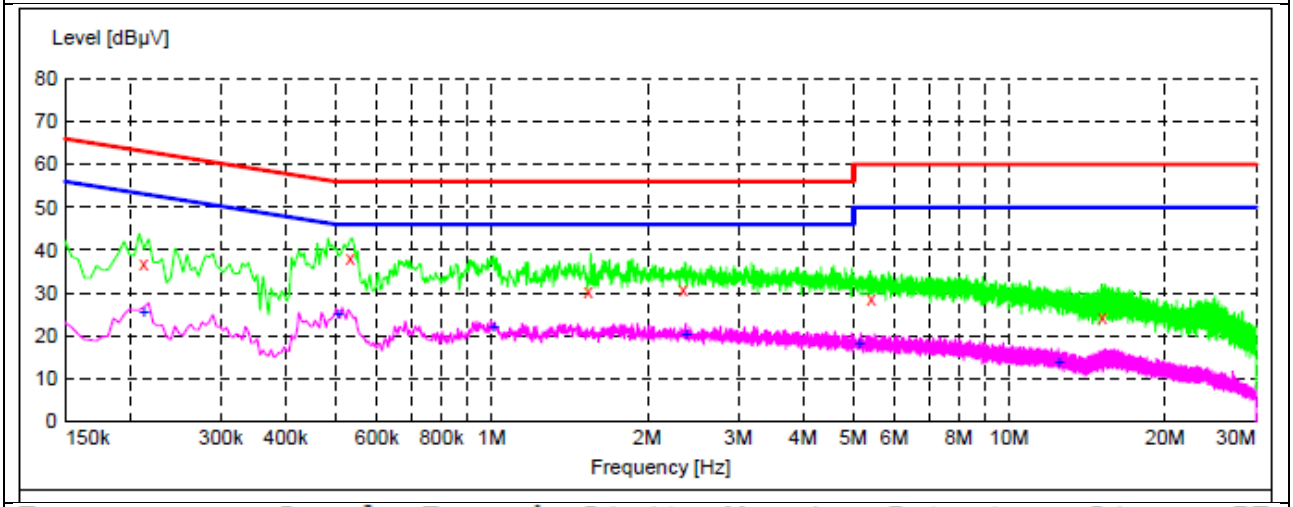


Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.213000	37.50	9.6	63	25.6	QP	N	GND
0.528000	29.50	9.6	56	26.5	QP	N	GND
0.982500	25.00	9.7	56	31.0	QP	N	GND
4.339500	22.30	9.7	56	33.7	QP	N	GND
5.635500	21.00	9.7	60	39.0	QP	N	GND
15.193500	20.90	9.8	60	39.1	QP	N	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	22.40	9.6	54	31.4	AV	N	GND
0.514500	18.50	9.6	46	27.5	AV	N	GND
0.987000	16.40	9.7	46	29.6	AV	N	GND
2.287500	13.10	9.7	46	32.9	AV	N	GND
5.230500	10.60	9.7	50	39.4	AV	N	GND
15.288000	11.80	9.8	50	38.2	AV	N	GND

Note:
1. Margin(dB)= Limit(dBµV) - Level(dBµV)
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.

Live Line



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.213000	36.70	9.6	63	26.4	QP	L1	GND
0.532500	38.10	9.6	56	17.9	QP	L1	GND
1.536000	30.30	9.7	56	25.7	QP	L1	GND
2.346000	30.80	9.7	56	25.2	QP	L1	GND
5.415000	28.60	9.7	60	31.4	QP	L1	GND
15.144000	24.50	9.8	60	35.5	QP	L1	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.213000	25.40	9.6	53	27.7	AV	L1	GND
0.505500	25.30	9.6	46	20.7	AV	L1	GND
1.009500	22.00	9.7	46	24.0	AV	L1	GND
2.377500	20.30	9.7	46	25.7	AV	L1	GND
5.140500	18.20	9.7	50	31.8	AV	L1	GND
12.498000	13.90	9.7	50	36.1	AV	L1	GND

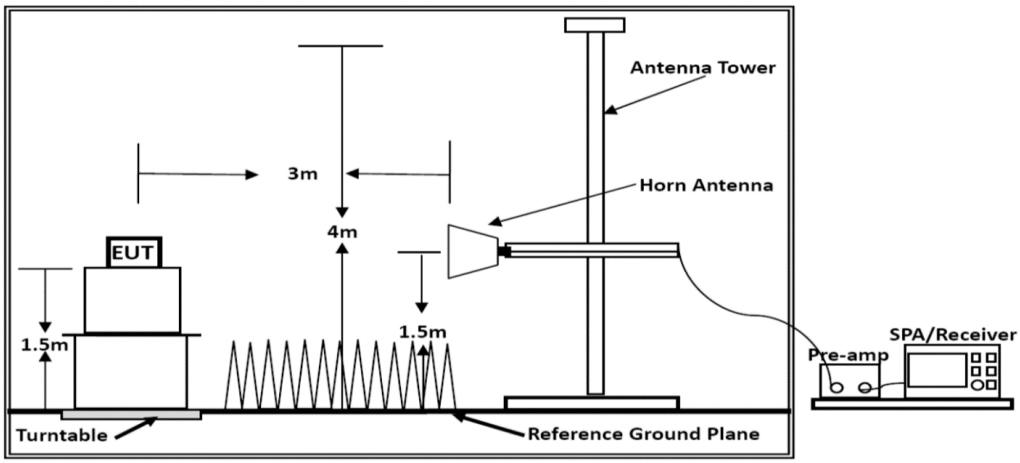
Note:
1. Margin(dB)= Limit(dBµV) - Level(dBµV)
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.

5.8. Band-edge measurements for radiated emissions

5.8.1. Standard Applicable

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

5.8.2. Block Diagram of Test Setup



Above 1GHz

5.8.3. Test Procedures

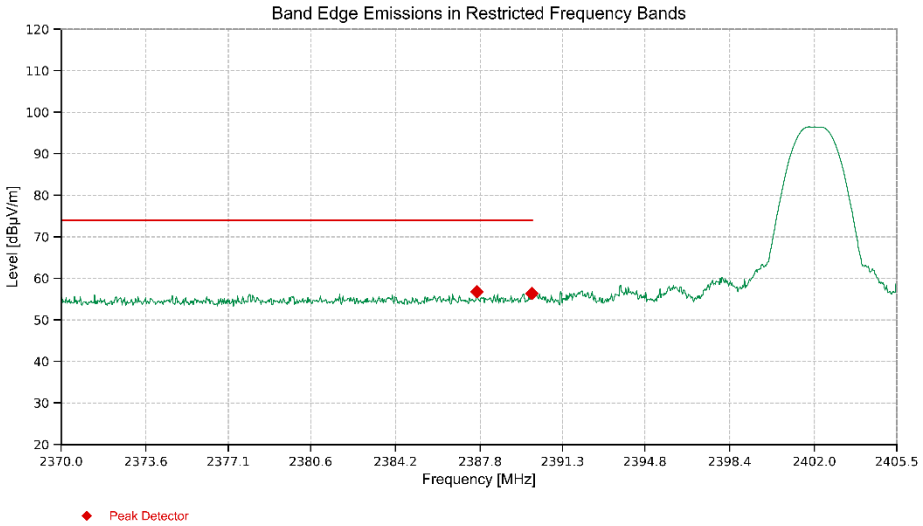
1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Peak
	Average Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Average

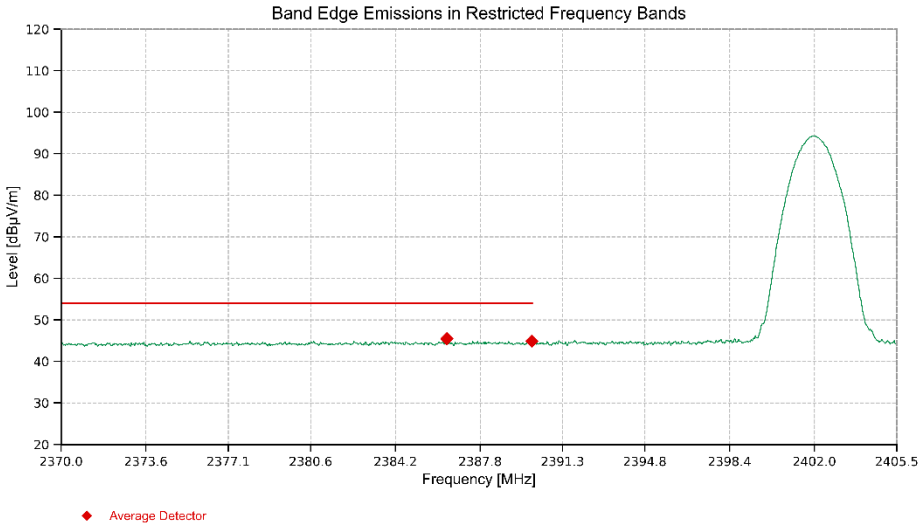
5.8.4. Test Results

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	BT LE
Test Volgate	DC 3.7V	/	/

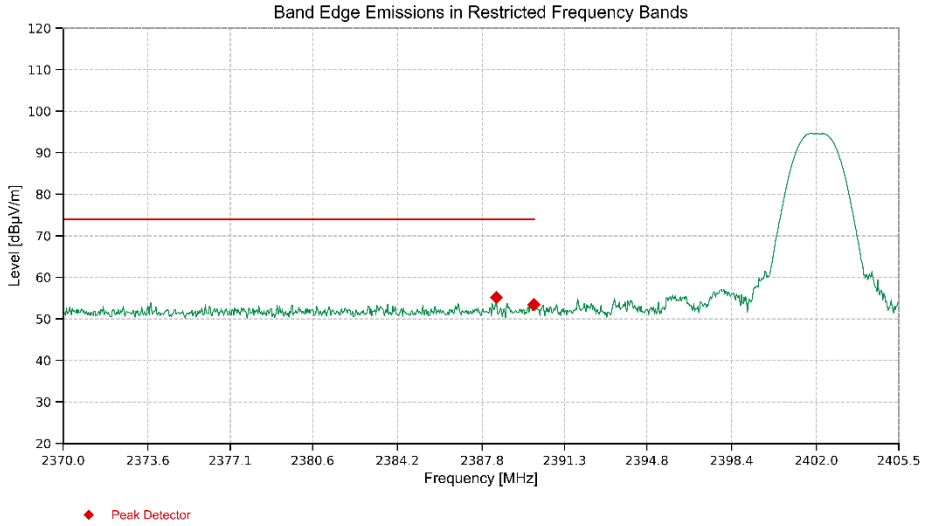
LE1M_ANT1_2402_1Mbps



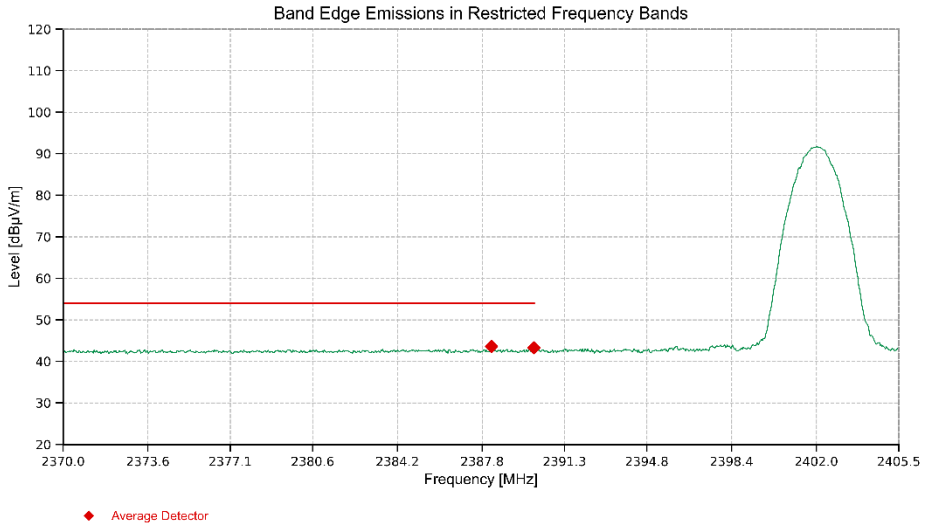
Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2387.66	17.94	29.99	8.35	56.28	74.00	17.72	Peak	Horizontal
2390.00	17.50	29.99	8.35	55.84	74.00	18.16	Peak	Horizontal



Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2386.38	6.63	29.99	8.35	44.97	54.00	9.03	Average	Horizontal
2390.00	6.04	29.99	8.35	44.38	54.00	9.62	Average	Horizontal

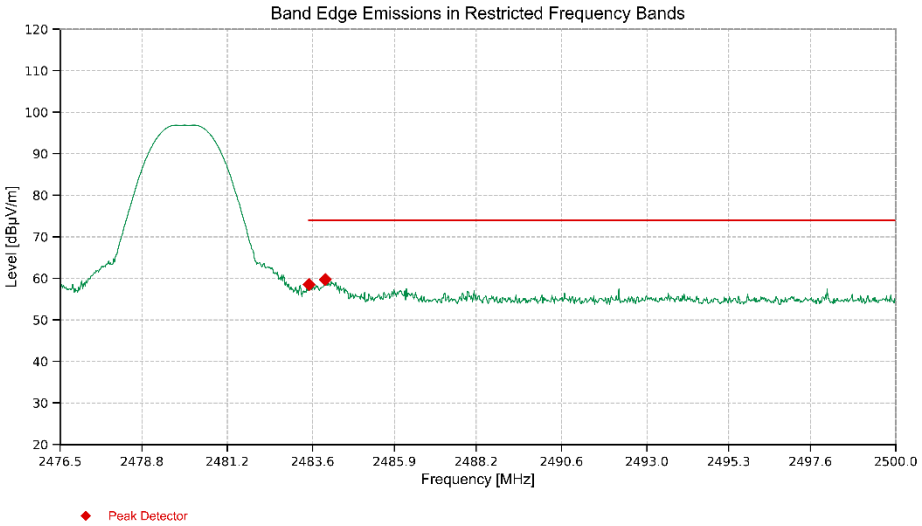


Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2388.41	16.31	29.99	8.35	54.65	74.00	19.35	Peak	Vertical
2390.00	14.58	29.99	8.35	52.92	74.00	21.08	Peak	Vertical

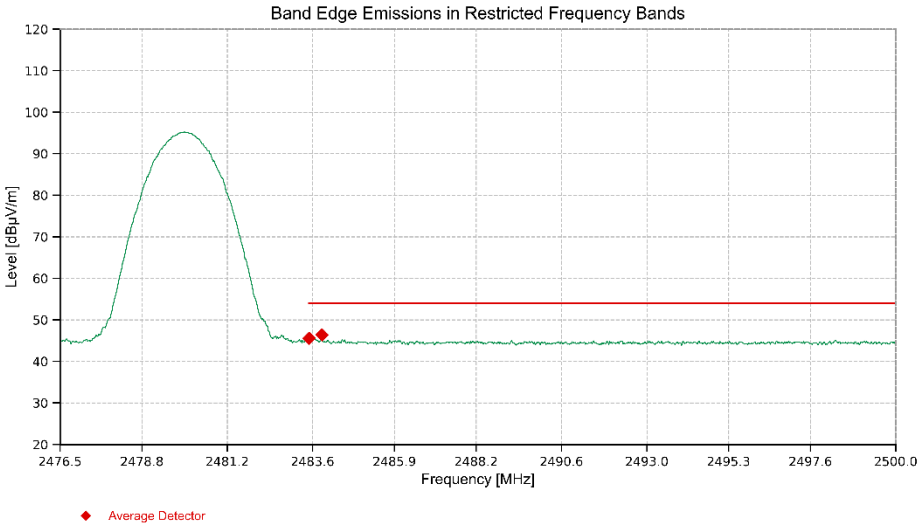


Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2388.19	4.79	29.99	8.35	43.13	54.00	10.87	Average	Vertical
2390.00	4.45	29.99	8.35	42.79	54.00	11.21	Average	Vertical

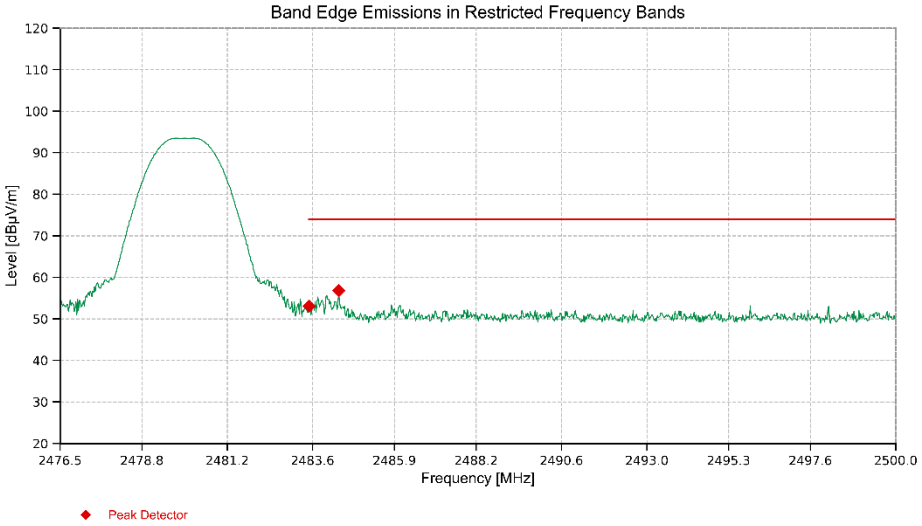
LE1M_ANT1_2480_1Mbps



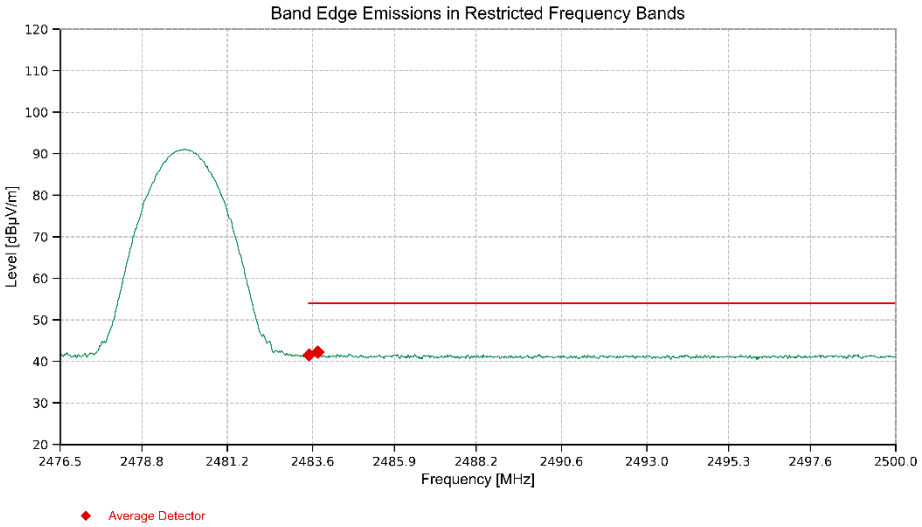
Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2483.96	20.46	30.25	8.50	59.21	74.00	14.79	Peak	Horizontal
2483.50	19.26	30.25	8.50	58.01	74.00	15.99	Peak	Horizontal



Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2483.86	7.15	30.25	8.50	45.90	54.00	8.10	Average	Horizontal
2483.50	6.30	30.25	8.50	45.05	54.00	8.95	Average	Horizontal



Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2484.33	17.56	30.25	8.50	56.31	74.00	17.69	Peak	Vertical
2483.50	13.83	30.25	8.50	52.58	74.00	21.42	Peak	Vertical



Freq. MHz	Reading dBµV	Ant. Fac. dB/m	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
2483.75	2.99	30.25	8.50	41.74	54.00	12.26	Average	Vertical
2483.50	2.32	30.25	8.50	41.07	54.00	12.93	Average	Vertical

Remark:
Result Level = Read Level + Antenna Factor + Cable loss.
Margin = Limit - Emission Level.

5.9. Antenna Requirements

5.9.1. Standard Applicable

According to antenna requirement of §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 re-placed 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 Sections 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 Section 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.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.9.2. Antenna Connected Construction

The directional gains of antenna refer to section 1.3 of this report, and the antenna is a Ceramic antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.9.3. Results

Compliance

6. LIST OF MEASURING EQUIPMENT

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	MXA Signal Analyzer	Keysight	N9020A	MY52091623	2026-01-11	2027-01-10
2	Power Sensor	Agilent	U2021XA	MY5365004	2026-01-11	2027-01-10
3	Power Meter	Agilent	U2531A	TW53323507	2026-01-11	2027-01-10
4	Loop Antenna	schwarzbeck	FMZB1519B	00023	2025-10-18	2028-10-17
5	Wideband Antenna	schwarzbeck	VULB 9163	958	2025-10-18	2028-10-17
6	Horn Antenna	schwarzbeck	BBHA 9120D	01989	2025-10-18	2028-10-17
7	EMI Test Receiver	R&S	ESCI	100849/003	2026-01-11	2027-01-10
8	Controller	MF	MF7802	N/A	N/A	N/A
9	Amplifier	schwarzbeck	BBV 9743	209	2026-01-11	2027-01-10
10	Amplifier	Tonscend	TSAMP-0518SE	--	2026-01-11	2027-01-10
11	RF Cable(below 1GHz)	HUBER+SUHNER	RG214	N/A	2026-01-11	2027-01-10
12	RF Cable(above 1GHz)	HUBER+SUHNER	RG214	N/A	2026-01-11	2027-01-10
13	Artificial Mains	ROHDE & SCHWARZ	ENV 216	101333-IP	2026-01-11	2027-01-10
14	Amplifier	Chengyi	EMC184045SE	980508	2026-01-11	2027-01-10
15	Horn Antenna	A-INFO	LB-180400-KF	J211020657	2025-10-18	2028-10-17
16	Spectrum Analyzer	R&S	FSV40	101321	2026-01-11	2027-01-10
17	Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-11	2027-01-10
18	RF Cable	MICROWAVE	SMA-18	N/A	Each Test	Each Test
19	RF Filter	HX Microwave	HXLBQ-DZA219	N/A	2026-01-11	2027-01-10

Test software used:

Item	Test Software	Manufacturer	Name	Version
1	EMI Test Software	ROHDE & SCHWARZ	ESK1	V1.71
2	RE test software	Tonscend	JS32-RE	V5.0.0.0
3	Test Software	Tonscend	JS1120-3	V3.2.22

7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for Internal Photos of the EUT.

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