



Test Report No.:
FCC2025-0010-RF

TEST REPORT

FCC ID : 2BHB8-NSA300
Applicant : NAMI.AI PTE. LTD.
Product Name : Door Sensor
Model No. : NSA300

CVC Testing Technology Co., Ltd.

Product Name	Door Sensor	Trade Mark	N/A			
Type/Model	NSA300	Sample Status	N/A			
Applicant	NAMI.AI PTE. LTD.					
Applicant Address	#03-01, 25 Duxton Hill, 089608, Singapore					
Manufacturer	NAMI.AI PTE. LTD.					
Manufacturer Address	#03-01, 25 Duxton Hill, 089608, Singapore					
Factory	Huizhou Weston Electronic Technology Co LTD					
Factory Address	Floor7-8, Building 27, No.29 Litchi City Industrial Avenue, Shuikou Street, Huicheng District, Huizhou City, P.R. China					
Sample Identification	1-1	Test Item	See page 9			
Tested According To	FCC CFR47 Part 15C Radio Frequency Devices ANSI C63.10-2020/Cor1-2023 KDB 558074 D01 15.247 Meas Guidance v05r02					
Receiving Date	2025-05-12	Completing Date	2025-05-19			
Test conclusion	<p>The equipment under test was found to comply with the requirements of the standards applied.</p> <p>Final Verdict: Pass.</p> <p>Seal of CVC</p> <p>Date of issue: 2025-05-21</p>					
Abbreviations: / Pass= passed Fail= failed N/A= not applicable						
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC .						

Approved by:

Chen Huawen



Reviewed by:

Xu Zhenfei



Tested by:

Lu Weiji



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2025-0010-RF	Original release	May.21,2025

1. General Product Information

1.1 General information

Product Name	Door Sensor
Model No.	NSA300
Additional model	N/A
Power Supply	DC 3.0V
Serial Number(SN)	N/A
Hardware Version	V4.0
Software Version	V1.0
Bluetooth Version	5.0
Specific power settings	Bluetooth(LE_1M,2M): 100 Thread:100
Antenna Type	PCB Antenna
Antenna Gain	Bluetooth: 1.3 dBi (provided by client) Thread: 1.3 dBi (provided by client)
Beamforming gain	Unsupported (provided by client)
Frequency Range	Bluetooth(LE_1MHz,2MHz): 2402~2480MHz Thread: 2405~2480MHz
Channel Number	Bluetooth(LE_1MHz,2MHz):40 Channels Thread: 16 Channels
Type of Modulation	Bluetooth(LE_1MHz,2MHz):GFSK Thread:OQPSK
Max. Conducted Power	Bluetooth: 6.04 dBm Thread:9.43dBm
Operate Temp.Range	-25°C~+45°C
<p>Note:</p> <ol style="list-style-type: none"> 1. The information of the EUT is declared by the manufacturer. 2. The laboratory is not responsible for the product technical specification provided by the client. 3. EUT photo refer to report (Report NO.:FCC2025-0010-EUT). 4. The EUT have SISO function, provides 1 completed transmitter and 1 receiver. 5. All the tests carried out on model NSA300. 	

2. Test Sites

2.1 Test Facilities

The tests and measurements refer to this report were performed by RF testing Lab. of CVC Testing Technology Co., Ltd.

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FCC(Test firm designation number: CN1282)

IC(Test firm CAB identifier number: CN0103)

CNAS(Test firm designation number: L0095)

2.2 Description of Non-standard Method and Deviations

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

2.3 List of Test and Measurement Instruments

Refer to **Appendix X**.

3. Test Configuration

3.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Mode	Antenna Delivery	Test Channel
Bluetooth(LE_1M,2M)	1TX / 1RX	0,19,39
Thread	1TX / 1RX	11,18,26

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate and different channels. Preliminary tests have been done on all the configurations for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates and channels are shown as following table.

Test Mode	Data Rate		
	Antenna 1	Antenna 2	MIMO
Bluetooth(LE_1M,2M)	1	/	/
Thread	1	/	/

Test Items	Test Antennas	Test Modes	Test Channels
Radiated Emissions	Antenna 1	Thread Bluetooth(LE_1M)	11,18,26/ 0,19,39
Radiated Emissions (Band Edge)	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39
Maximum conducted output power	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39
Minimum 6 dB bandwidth	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39
Occupied Channel Bandwidth	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39
Band Edge Measurement	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,26/ 0,39
Maximum Power spectral density	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39
Spurious RF Conducted Emissions	Antenna 1	Thread Bluetooth(LE_1M,2M)	11,18,26/ 0,19,39

3.2 Duty cycle

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.13	0.38	34.21	---	---
		2440	0.13	0.37	35.14	---	---
		2480	0.12	0.37	32.43	---	---
BLE_2M	Ant1	2402	0.07	0.32	21.88	---	---
		2440	0.07	0.32	21.88	---	---
		2480	0.07	0.32	21.88	---	---
Thread	Ant1	2405	0.32	0.57	56.14	---	---
		2440	0.32	0.57	56.14	---	---
		2480	0.31	0.57	54.39	---	---

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	15.207	N/A	See note 1
Radiated Emissions	15.247(d),15.205,15.209	PASS	/
Maximum conducted output power	15.247(b)(3)	PASS	Appendix C of BLE_diagram and Appendix C of Thread_diagram
Minimum 6 dB bandwidth	15.247(a)(2)	PASS	Appendix A of BLE_diagram and Appendix A of Thread_diagram
Occupied Channel Bandwidth	15.247(a)(2)	PASS	Appendix B of BLE_diagram and Appendix B of Thread_diagram
Band Edge Measurement	15.247(d)	PASS	Appendix E of BLE_diagram and Appendix E of Thread_diagram
Maximum Power spectral density	15.247(e)	PASS	Appendix D of BLE_diagram and Appendix D of Thread_diagram
Spurious RF Conducted Emissions	15.247(d)	PASS	Appendix F of BLE_diagram and Appendix F of Thread_diagram
Antenna Requirement	15.203	PASS	See note 2

Note 1:This device does not work on the AC power cord.

Note 2: According to 15.203, it is considered sufficient to comply with the provisions of this section.

5. Measurement procedure

5.1 Conducted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was setup according to ANSI C63.10-2020/Cor1-2023 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

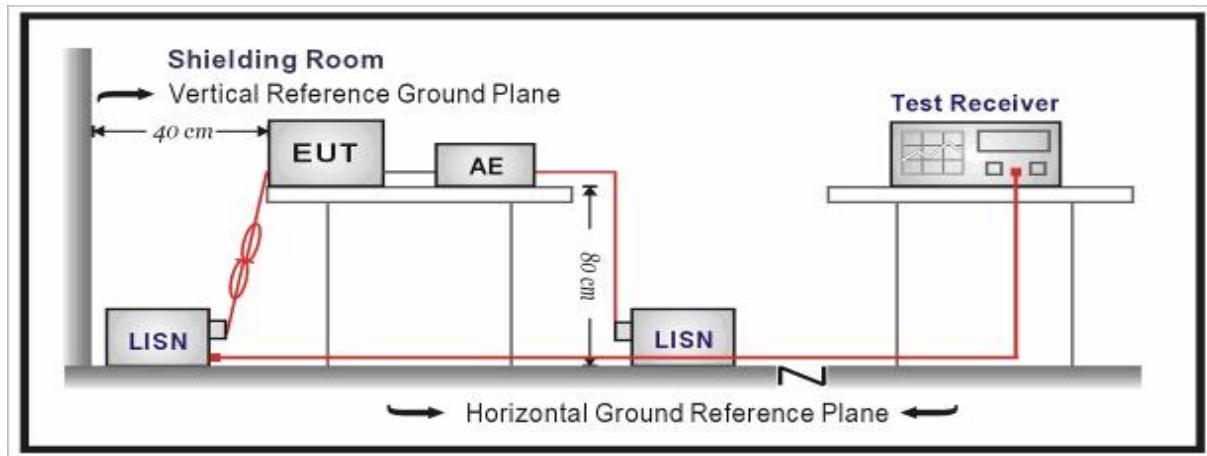
Limits:

Frequency (MHz)	Conducted Limits(dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Test Setup:



Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Level =Reading + Factor.

Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$. $U = 3.12$ dB.

Test Results:

Conducted Emission applies to an intentional radiator that is designed to be connected to the public utility (AC) power line. Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

5.2 Radiated Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was setup and tested according to ANSI C63.10-2020/Cor1-2023.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from Antenna to the EUT was 3 meters.

The Antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the Antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020/Cor1-2023 on radiated measurement. The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn Antenna will be bended down a little (as horn Antenna has the narrow beamwidth) in order to keeping the Antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

Limits:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

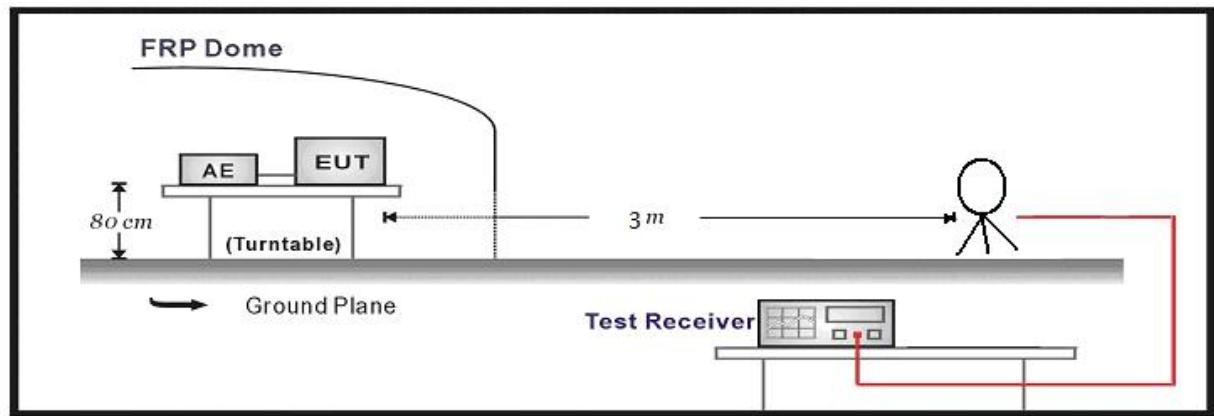
Frequency	Limit (μ V/m)	Limit (dB μ V/m @3m)	Remark
0.009MHz-0.490MHz	2400/F(kHz)@300m	20lg(24000000/F(kHz))	Quasi-peak Level
0.490MHz~1.705MHz	24000/F(kHz)@30m	20lg(2400000/F(kHz))	Quasi-peak Level
1.705MHz~30.0MHz	30@30m	69.54	Quasi-peak Level
30MHz-88MHz	100@3m	40.0	Quasi-peak Level
88MHz-216MHz	150@3m	43.5	Quasi-peak Level
216MHz-960MHz	200@3m	46.0	Quasi-peak Level
960MHz-1GHz	500@3m	54.0	Quasi-peak Level
Above 1GHz	500@3m	54.0	Average Level
	5000@3m	74.0	Peak Level

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

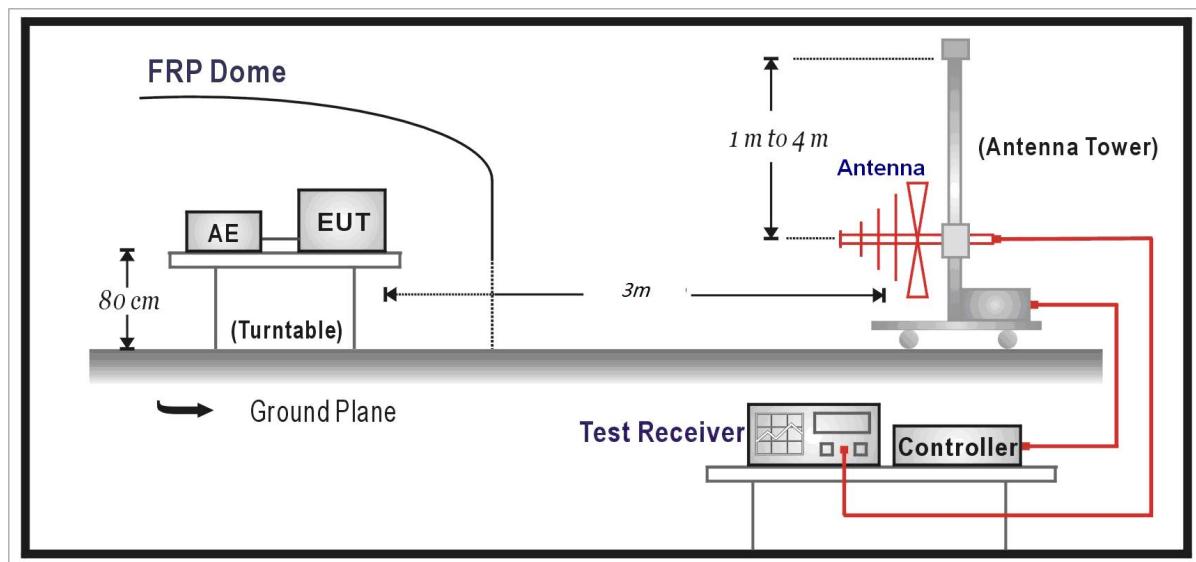
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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.
12.57675-12.57725	322-335.4	3600-4400	/
13.36-13.41	/	/	/

Test Setup:

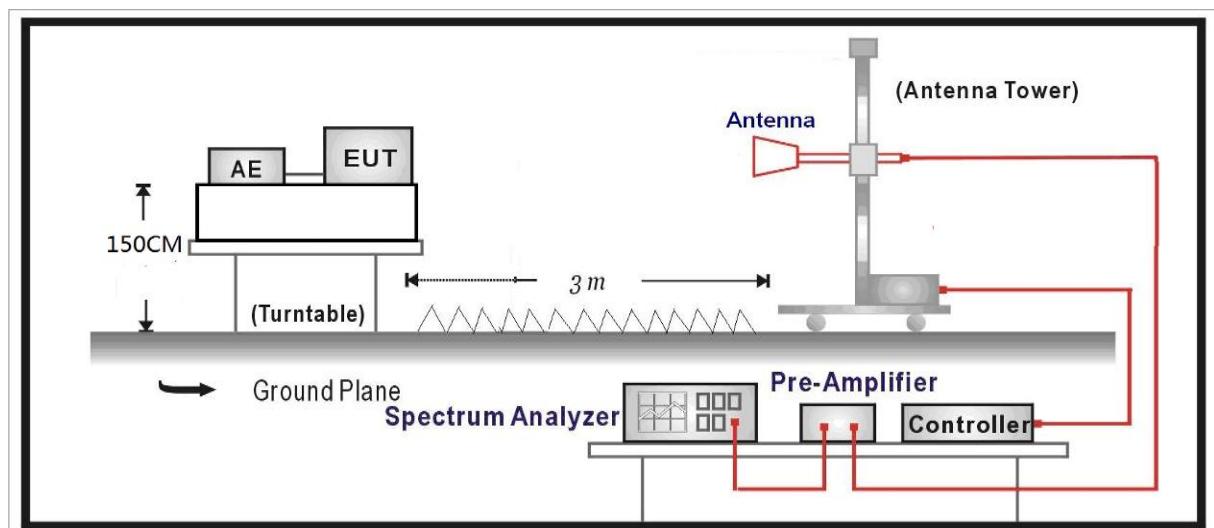
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



Measurement Data:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Level =Reading - Factor

Factor = Preamplifier Factor – Antenna Factor–Cable Loss

Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
Above 1GHz	3.68 dB

Test Results:

SPURIOUS EMISSIONS:

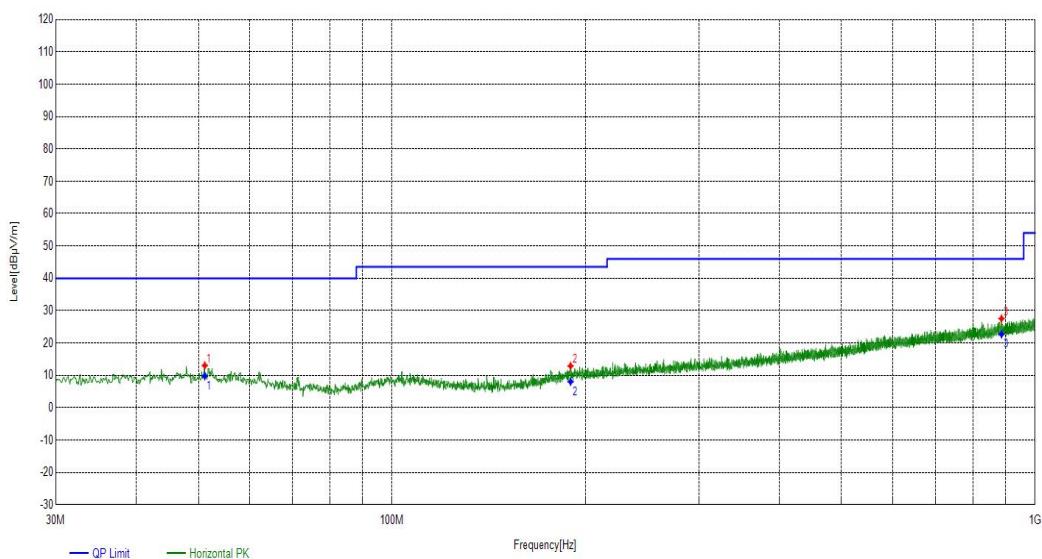
Bluetooth(Low Energy):

During the test, the Radiates Emission from 9kHz to 1GHz was performed in Bluetooth(Low Energy) all modes with all channels and all antennas. BLE(2Mbps), channel 0, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission	9k~1G									
Test channel	Worst-Case									
Suspected List										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
51.1481	Horizontal	13.00	0.04	13.04	40.00	26.96	PK	100	34	PASS
189.4839	Horizontal	12.71	0.19	12.90	43.50	30.60	PK	100	82	PASS
886.5957	Horizontal	25.54	2.00	27.54	46.00	18.46	PK	100	210	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

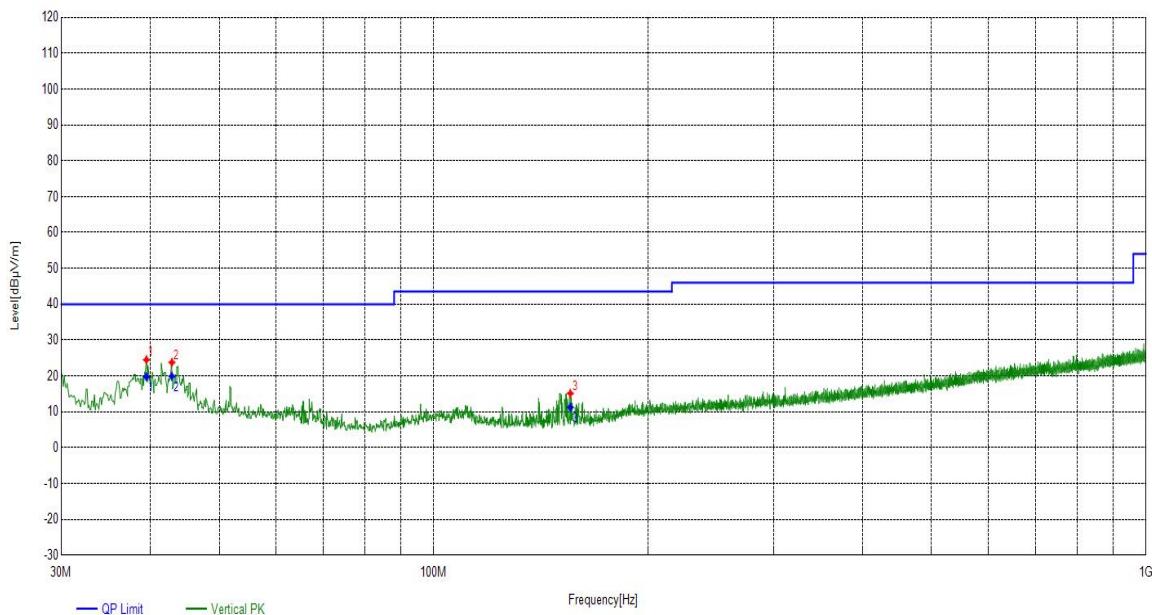
Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
51.1481	Horizontal	13.00	9.79	40.00	30.21	121	67	PASS
189.4839	Horizontal	12.71	8.05	43.50	35.45	171	109	PASS
886.5957	Horizontal	25.54	22.69	46.00	23.31	190	225	PASS



Radiates Emission	9k~1G									
Test channel	Worst-Case									
Suspected List										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
39.507	Vertical	12.02	12.47	24.49	40.00	15.51	PK	100	359	PASS
42.9023	Vertical	12.40	11.35	23.75	40.00	16.25	PK	100	359	PASS
155.5306	Vertical	9.80	5.32	15.12	43.50	28.38	PK	100	57	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
39.507	Vertical	12.02	19.73	40.00	20.27	159	338	PASS
42.9023	Vertical	12.40	19.89	40.00	20.11	230	342	PASS
155.5306	Vertical	9.80	11.26	43.50	32.24	150	87	PASS



During the test, the Radiates Emission from Above 1G was performed in Bluetooth(Low Energy) all modes with all channels and all antennas. BLE(2Mbps), Highest, medium, lowest channels, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4854.185419	1.47	37.27	38.74	74.00	35.26	PK	150	290	PASS
10184.218422	12.58	31.83	44.41	74.00	29.59	PK	150	130	PASS
14446.144615	18.15	33.16	51.31	74.00	22.69	PK	150	340	PASS
4854.185419	1.47	25.67	27.14	54.00	26.86	AV	150	60	PASS
10184.218422	12.58	20.17	32.75	54.00	21.25	AV	150	40	PASS
14446.144615	18.15	21.28	39.43	54.00	14.57	AV	150	180	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5271.227123	2.96	37.31	40.27	74.00	33.73	PK	150	20	PASS
9173.117312	10.98	30.35	41.33	74.00	32.67	PK	150	70	PASS
14422.142214	18.06	30.14	48.20	74.00	25.80	PK	150	30	PASS
5271.227123	2.96	24.99	27.95	54.00	26.05	AV	150	150	PASS
9173.117312	10.98	20.72	31.70	54.00	22.30	AV	150	140	PASS
14422.142214	18.06	20.69	38.75	54.00	15.25	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4800.180018	1.24	38.40	39.64	74.00	34.36	PK	150	300	PASS
8501.050105	10.00	30.83	40.83	74.00	33.17	PK	150	290	PASS
14479.147915	18.30	31.54	49.84	74.00	24.16	PK	150	290	PASS
4800.180018	1.24	25.69	26.93	54.00	27.07	AV	150	20	PASS
8501.050105	10.00	21.98	31.98	54.00	22.02	AV	150	160	PASS
14479.147915	18.30	20.94	39.24	54.00	14.76	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Vertical								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
3843.084308	0.24	39.21	39.45	74.00	34.55	PK	150	180	PASS
7857.485749	9.24	34.97	44.21	74.00	29.79	PK	150	330	PASS
14461.146115	18.21	32.71	50.92	74.00	23.08	PK	150	110	PASS
3843.084308	0.24	27.19	27.43	54.00	26.57	AV	150	10	PASS
7857.485749	9.24	22.45	31.69	54.00	22.31	AV	150	360	PASS
14461.146115	18.21	20.92	39.13	54.00	14.87	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Highest								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
3507.050705	-0.33	36.48	36.15	74.00	37.85	PK	150	90	PASS
7236.423642	9.01	34.77	43.78	74.00	30.22	PK	150	330	PASS
14563.156316	18.15	31.37	49.52	74.00	24.48	PK	150	180	PASS
3507.050705	-0.33	27.17	26.84	54.00	27.16	AV	150	50	PASS
7236.423642	9.01	22.69	31.70	54.00	22.30	AV	150	20	PASS
14563.156316	18.15	21.29	39.44	54.00	14.56	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Highest								
polarization	Vertical								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4116.111611	0.48	39.07	39.55	74.00	34.45	PK	150	280	PASS
8456.045605	9.93	34.80	44.73	74.00	29.27	PK	150	90	PASS
14602.160216	18.02	31.14	49.16	74.00	24.84	PK	150	140	PASS
4116.111611	0.48	26.71	27.19	54.00	26.81	AV	150	350	PASS
8456.045605	9.93	21.43	31.36	54.00	22.64	AV	150	90	PASS
14602.160216	18.02	20.80	38.82	54.00	15.18	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

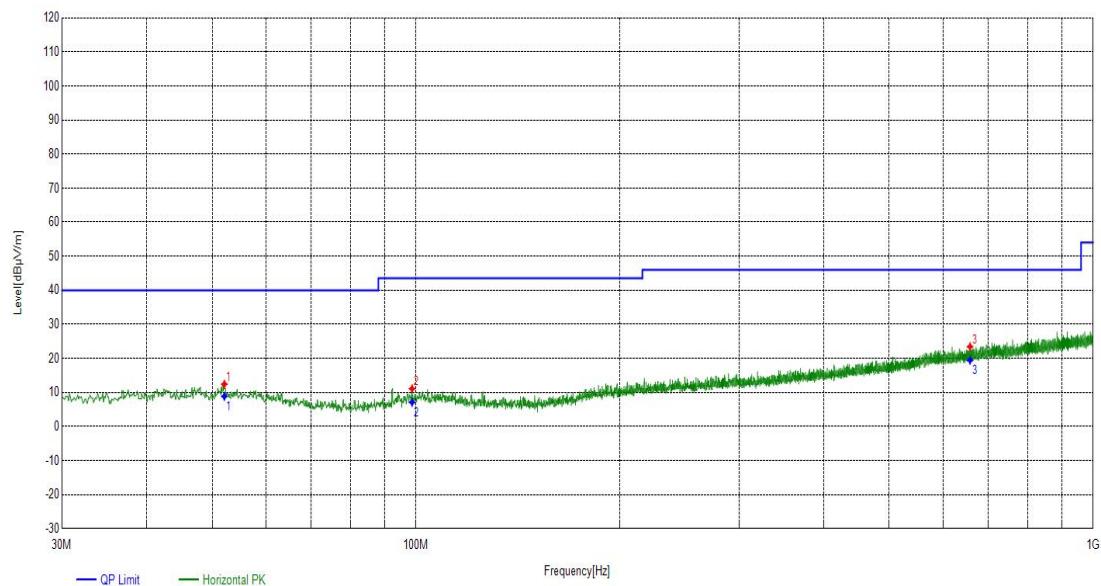
Thread:

During the test, the Radiates Emission from 9kHz to 1GHz was performed in Thread all modes with all channels and all antennas. Thread channel 0, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		9k~1G									
Test channel		Worst-Case									
Suspected List											
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail	
52.1182	Horizontal	12.91	-0.47	12.44	40.00	27.56	PK	100	220	PASS	
98.6829	Horizontal	11.59	-0.50	11.09	43.50	32.41	PK	100	39	PASS	
658.0408	Horizontal	22.77	0.67	23.44	46.00	22.56	PK	100	178	PASS	

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

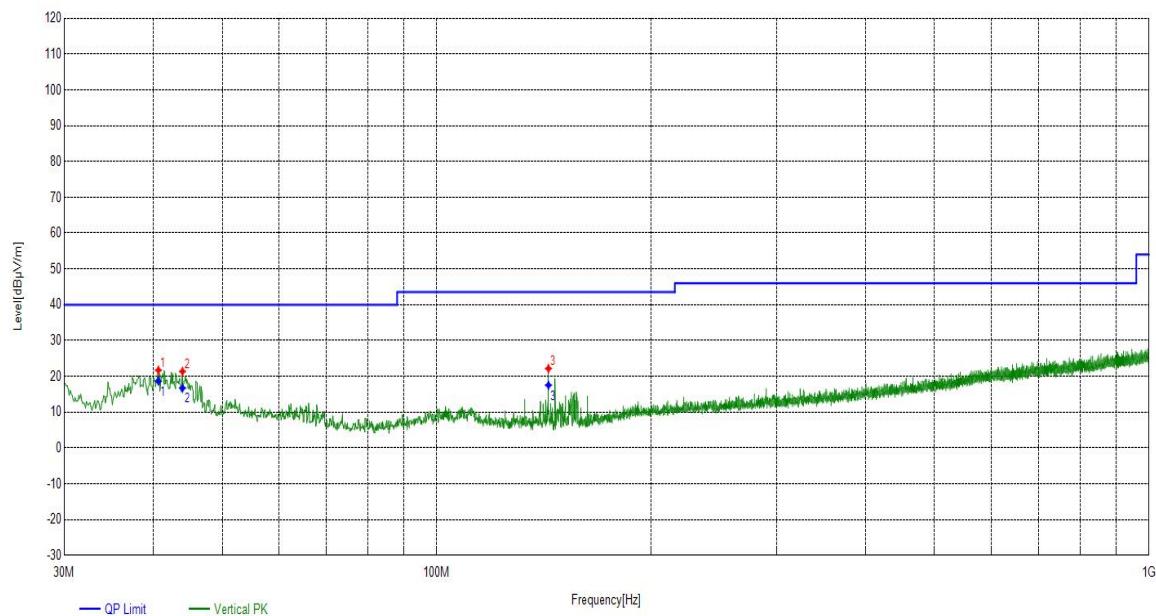
Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
52.1182	Horizontal	12.91	8.84	40.00	31.16	125	218	PASS
98.6829	Horizontal	11.59	7.09	43.50	36.41	132	129	PASS
658.0408	Horizontal	22.77	19.44	46.00	26.56	190	192	PASS



Radiates Emission	9k~1G									
Test channel	Worst-Case									
Suspected List										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
40.6711	Vertical	12.18	9.53	21.71	40.00	18.29	PK	100	58	PASS
43.9694	Vertical	12.51	8.86	21.37	40.00	18.63	PK	100	195	PASS
143.5014	Vertical	9.49	12.69	22.18	43.50	21.32	PK	100	301	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
40.6711	Vertical	12.18	18.67	40.00	21.33	126	156	PASS
43.9694	Vertical	12.51	16.72	40.00	23.28	174	216	PASS
143.5014	Vertical	9.49	17.53	43.50	25.97	130	301	PASS



During the test, the Radiates Emission from Above 1G was performed in Thread all modes with all channels and all antennas. Thread, Highest, medium, lowest channels, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
6039.30393	5.74	35.15	40.89	74.00	33.11	PK	150	300	PASS
10661.266127	12.70	33.25	45.95	74.00	28.05	PK	150	100	PASS
14848.184819	17.95	33.43	51.38	74.00	22.62	PK	150	340	PASS
6039.30393	5.74	23.28	29.02	54.00	24.98	AV	150	30	PASS
10661.266127	12.70	20.81	33.51	54.00	20.49	AV	150	200	PASS
14848.184819	17.95	21.09	39.04	54.00	14.96	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4830.183018	1.37	36.11	37.48	74.00	36.52	PK	150	190	PASS
7842.484248	9.23	32.14	41.37	74.00	32.63	PK	150	150	PASS
14596.159616	18.04	33.76	51.80	74.00	22.20	PK	150	240	PASS
4830.183018	1.37	26.23	27.60	54.00	26.40	AV	150	40	PASS
7842.484248	9.23	22.34	31.57	54.00	22.43	AV	150	50	PASS
14596.159616	18.04	21.00	39.04	54.00	14.96	AV	150	50	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G							
Test channel	medium							
polarization	Horizontal							

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4080.108011	0.51	38.70	39.21	74.00	34.79	PK	150	190	PASS
7551.455146	9.08	31.28	40.36	74.00	33.64	PK	150	40	PASS
14530.153015	18.27	31.52	49.79	74.00	24.21	PK	150	200	PASS
4080.108011	0.51	26.44	26.95	54.00	27.05	AV	150	150	PASS
7551.455146	9.08	21.78	30.86	54.00	23.14	AV	150	220	PASS
14530.153015	18.27	21.30	39.57	54.00	14.43	AV	150	120	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G							
Test channel	medium							
polarization	Vertical							

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4110.111011	0.50	38.83	39.33	74.00	34.67	PK	150	320	PASS
8996.09961	10.40	34.00	44.40	74.00	29.60	PK	150	140	PASS
14332.133213	17.54	30.49	48.03	74.00	25.97	PK	150	340	PASS
4110.111011	0.50	27.41	27.91	54.00	26.09	AV	150	310	PASS
8996.09961	10.40	21.14	31.54	54.00	22.46	AV	150	200	PASS
14332.133213	17.54	20.93	38.47	54.00	15.53	AV	150	30	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Highest								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4962.19622	1.92	34.14	36.06	74.00	37.94	PK	150	140	PASS
9476.147615	12.23	30.93	43.16	74.00	30.84	PK	150	150	PASS
14695.169517	18.04	32.09	50.13	74.00	23.87	PK	150	310	PASS
4962.19622	1.92	25.70	27.62	54.00	26.38	AV	150	140	PASS
9476.147615	12.23	21.84	34.07	54.00	19.93	AV	150	160	PASS
14695.169517	18.04	21.12	39.16	54.00	14.84	AV	150	205	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Highest								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4719.171917	0.88	38.45	39.33	74.00	34.67	PK	150	220	PASS
8708.070807	10.12	30.95	41.07	74.00	32.93	PK	150	20	PASS
14476.147615	18.28	33.45	51.73	74.00	22.27	PK	150	240	PASS
4719.171917	0.88	25.77	26.65	54.00	27.35	AV	150	210	PASS
8708.070807	10.12	20.83	30.95	54.00	23.05	AV	150	360	PASS
14476.147615	18.28	20.53	38.81	54.00	15.19	AV	150	360	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Band Edge:

During the test, the Band Edge was performed in BLE all modes with all channels and all antennas.

BLE(2Mbps), Highest and lowest channels, Antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode	BLE(2Mbps)								
Test channel	Lowest channel								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2350.1350	-4.70	41.35	36.65	74.00	37.35	PK	150	90	PASS
2390.1390	-4.57	39.07	34.50	74.00	39.50	PK	150	310	PASS
2402.1402	-4.53	69.04	64.51	---	---	PK	150	120	---
2350.1350	-4.70	28.97	24.27	54.00	29.73	AV	150	10	PASS
2390.1390	-4.57	29.12	24.55	54.00	29.45	AV	150	40	PASS
2402.1402	-4.53	37.01	32.48	---	---	AV	150	340	---

Test mode	802.11ax20								
Test channel	Lowest channel								
polarization	Vertical								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2345.1345	-4.71	39.52	34.81	74.00	39.19	PK	150	130	PASS
2390.1390	-4.57	38.91	34.34	74.00	39.66	PK	150	300	PASS
2401.7401	-4.54	66.30	61.76	---	---	PK	150	300	---
2345.1345	-4.71	29.55	24.84	54.00	29.16	AV	150	10	PASS
2390.1390	-4.57	28.91	24.34	54.00	29.66	AV	150	200	PASS
2401.9401	-4.54	41.19	36.65	---	---	AV	150	60	---

The signal beyond the limit is carrier.

Test mode	BLE(2Mbps)								
Test channel	Highest channel								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
2479.9479	-4.27	65.00	60.73	---	---	PK	150	360	---
2483.5483	-4.26	38.60	34.34	74.00	39.66	PK	150	240	PASS
2536.7536	-4.04	40.37	36.33	74.00	37.67	PK	150	80	PASS
2479.9479	-4.27	39.39	35.12	---	---	AV	150	40	---
2483.5483	-4.26	28.81	24.55	54.00	29.45	AV	150	10	PASS
2536.7536	-4.04	30.07	26.03	54.00	27.97	AV	150	10	PASS

Test mode 802.11ax20

Test channel Highest channel

polarization Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
2479.9479	-4.27	68.48	64.21	---	---	PK	150	270	---
2483.5483	-4.26	39.42	35.16	74.00	38.84	PK	150	290	PASS
2505.3505	-4.18	41.17	36.99	74.00	37.01	PK	150	270	PASS
2479.9479	-4.27	44.01	39.74	---	---	AV	150	110	---
2483.5483	-4.26	28.88	24.62	54.00	29.38	AV	150	30	PASS
2505.3505	-4.18	28.63	24.45	54.00	29.55	AV	150	210	PASS

The signal beyond the limit is carrier.

During the test, the Band Edge was performed in Thread all modes with all channels and all antennas.

Thread, Highest and lowest channels, Antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode	Thread								
Test channel	Lowest channel								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2323.1323	-4.78	40.22	35.44	74.00	38.56	PK	150	40	PASS
2390.1390	-4.57	39.25	34.68	74.00	39.32	PK	150	50	PASS
2404.3404	-4.53	68.81	64.28	---	---	PK	150	260	---
2323.1323	-4.78	29.12	24.34	54.00	29.66	AV	150	10	PASS
2390.1390	-4.57	28.86	24.29	54.00	29.71	AV	150	250	PASS
2404.3404	-4.53	39.61	35.08	---	---	AV	150	360	---

Test mode	Thread								
Test channel	Lowest channel								
polarization	Vertical								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2356.1356	-4.69	41.50	36.81	74.00	37.19	PK	150	360	PASS
2390.1390	-4.57	39.68	35.11	74.00	38.89	PK	150	170	PASS
2404.7404	-4.53	64.99	60.46	---	---	PK	150	340	---
2356.1356	-4.69	29.97	25.28	54.00	28.72	AV	150	10	PASS
2390.1390	-4.57	29.08	24.51	54.00	29.49	AV	150	30	PASS
2404.7404	-4.53	48.73	44.20	---	---	AV	150	10	---

The signal beyond the limit is carrier.

Test mode	Thread								
Test channel	Highest channel								
polarization	Horizontal								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2479.3475	-4.29	65.07	60.78	---	---	PK	150	290	---
2483.5483	-4.26	38.80	34.54	74.00	39.46	PK	150	320	PASS
2577.1577	-3.88	41.78	37.90	74.00	36.10	PK	150	310	PASS
2479.3475	-4.29	49.89	45.60	---	---	AV	150	10	---
2483.5483	-4.26	29.38	25.12	54.00	28.88	AV	150	10	PASS
2577.1577	-3.88	28.81	24.93	54.00	29.07	AV	150	310	PASS

Test mode	Thread								
Test channel	Highest channel								
polarization	Vertical								

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2479.74757	-4.29	68.04	63.75	---	---	PK	150	60	---
2483.54835	-4.26	39.69	35.43	74.00	38.57	PK	150	70	PASS
2549.15491	-3.99	42.38	38.39	74.00	35.61	PK	150	130	PASS
2479.74757	-4.29	47.03	42.74	---	---	AV	150	50	---
2483.54835	-4.26	28.83	24.57	54.00	29.43	AV	150	40	PASS
2549.15491	-3.99	29.48	25.49	54.00	28.51	AV	150	70	PASS

The signal beyond the limit is carrier.

5.3 Maximum conducted output power

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

a. A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.

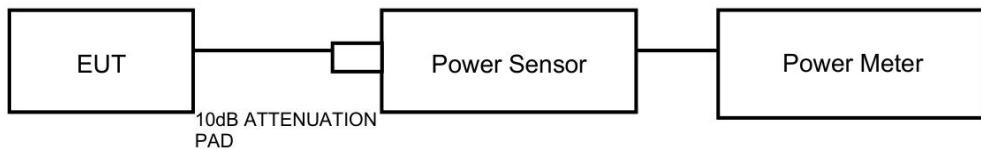
Limits:

Average Output Power	≤ 1W (30dBm)
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Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated Levels above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

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

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

Test Results:

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.01	≤ 30.00	PASS
		2440	5.88	≤ 30.00	PASS
		2480	5.46	≤ 30.00	PASS
BLE_2M	Ant1	2402	6.04	≤ 30.00	PASS
		2440	5.94	≤ 30.00	PASS
		2480	5.51	≤ 30.00	PASS
Thread	Ant1	2405	9.39	≤ 30.00	PASS
		2440	9.43	≤ 30.00	PASS
		2480	9.03	≤ 30.00	PASS

5.4 Minimum 6 dB Bandwidth

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz; VBW is set to greater than 3 times RBW on spectrum analyzer.

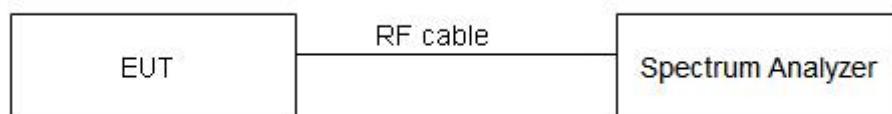
Detector=Peak, Trace mode=Max hold.

Limits:

Rule Part 15.247 (a) (2) specifies that "Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz."

Minimum 6dB Bandwidth	≥ 500 kHz
-----------------------	----------------

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.52	2401.73	2402.26	≥ 0.5	PASS
		2440	0.55	2439.70	2440.25	≥ 0.5	PASS
		2480	0.62	2479.71	2480.32	≥ 0.5	PASS
BLE_2M	Ant1	2402	0.60	2401.62	2402.22	≥ 0.5	PASS
		2440	0.59	2439.62	2440.22	≥ 0.5	PASS
		2480	0.54	2479.68	2480.22	≥ 0.5	PASS
Thread	Ant1	2405	1.47	2404.28	2405.75	≥ 0.5	PASS
		2440	1.61	2439.16	2440.77	≥ 0.5	PASS
		2480	1.55	2479.18	2480.73	≥ 0.5	PASS

5.5 Occupied Channel Bandwidth

Ambient condition:

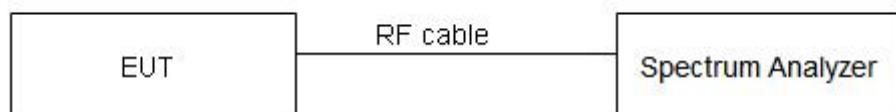
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 1% to 5% of the OBW; video bandwidth (VBW) shall be at least three times RBW on spectrum analyzer.

Detector=Peak, Trace mode=Max hold.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.039	2401.4406	2402.4795	---	---
		2440	1.039	2439.4406	2440.4795	---	---
		2480	1.039	2479.4406	2480.4795	---	---
BLE_2M	Ant1	2402	2.054	2400.9371	2402.9910	---	---
		2440	2.062	2438.9331	2440.9950	---	---
		2480	2.062	2478.9331	2480.9950	---	---
Thread	Ant1	2405	2.198	2403.8412	2406.0390	---	---
		2440	2.198	2438.8312	2441.0290	---	---
		2480	2.238	2478.8112	2481.0490	---	---

5.6 Band Edge Measurement

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

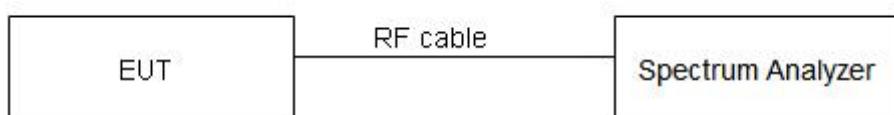
Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer.

Limits:

Rule Part 15.247(d) specifies that “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.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 936$ Hz, $2 \text{ GHz} - 3 \text{ GHz} = 1.407 \text{ dB}$.

Test Results:

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.04	-47.55	≤-14.96	PASS
		High	2480	3.71	-47.71	≤-16.29	PASS
BLE_2M	Ant1	Low	2402	5.07	-47.05	≤-14.93	PASS
		High	2480	3.71	-47.52	≤-16.29	PASS
Thread	Ant1	Low	2405	8.44	-47.46	≤-11.56	PASS
		High	2480	7.10	-43.64	≤-12.9	PASS

5.7 Maximum Power Spectral Density

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

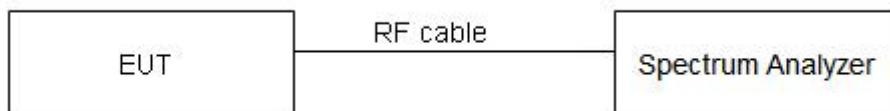
During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation. The Average detector is used. We use Method AVGPSD-2 in KDB 558074 D01 for this test.

Limits:

Rule Part 15.247(e) specifies that" 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.

Maximum Power Spectral Density	$\leq 8 \text{ dBm} / 3\text{kHz}$
--------------------------------	------------------------------------

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.87	≤8.00	PASS
		2440	-7.07	≤8.00	PASS
		2480	-7.55	≤8.00	PASS
BLE_2M	Ant1	2402	-9.25	≤8.00	PASS
		2440	-9.45	≤8.00	PASS
		2480	-9.92	≤8.00	PASS
Thread	Ant1	2405	-5.40	≤8.00	PASS
		2440	-5.49	≤8.00	PASS
		2480	-5.95	≤8.00	PASS

5.8 Spurious RF Conducted Emissions

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100kHz and VBW to 300 kHz, Sweep is set to AUTO .The test is in transmitting mode.

Limits:

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

Test Results:

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-56.61	\leq -18.1	PASS
			1000~26500	1.90	-45.52	\leq -18.1	PASS
		2440	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-57.18	\leq -14.84	PASS
			1000~26500	5.16	-45.37	\leq -14.84	PASS
		2480	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-57.64	\leq -19.56	PASS
			1000~26500	0.44	-45.33	\leq -19.56	PASS
BLE_2M	Ant1	2402	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-57.03	\leq -21.05	PASS
			1000~26500	-1.05	-45.53	\leq -21.05	PASS
		2440	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-57.23	\leq -19.88	PASS
			1000~26500	0.12	-45.27	\leq -19.88	PASS
		2480	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-56.23	\leq -15.4	PASS
			1000~26500	4.60	-45.59	\leq -15.4	PASS
Thread	Ant1	2405	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-56.71	\leq -17.35	PASS
			1000~26500	2.65	-45.29	\leq -17.35	PASS
		2440	Reference	8.15	8.15	---	PASS
			30~1000	8.15	-56.9	\leq -11.85	PASS
			1000~26500	8.15	-46.04	\leq -11.85	PASS
		2480	Reference	6.98	6.98	---	PASS
			30~1000	6.98	-57.23	\leq -13.02	PASS
			1000~26500	6.98	-45.78	\leq -13.02	PASS

6. Appendix X

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Communication Shielded Room 2	4m*3m*3m	CRTDSWKS44301	/	CRT	2027/04/22
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2026/03/27
Power Meter	JS0806-2	19H9080187	DZ-000241	Tonscend	2026/03/27
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIG HT	2026/04/10
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	EM-000557	COMTES T	2027/02/01
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIG HT	2026/01/01
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2025/12/26
EMI Test Receiver	ESR7	102235	EM-000574	R&S	2026/01/05
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2025/06/04
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWAR ZBECK	2025/06/09
Waveguide Horn Antenna	HF906	360306/008	EM-000093	R&S	2025/12/26
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWAR ZBECK	2025/08/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	2025/06/02
Bandstop Filters	SW-BSF-2400-100-7-A1	/	EM-000495	/	2025/08/29
5.8GHz band resistance	ZBSF6-C5725-5850-1627	1232740	DZ-000399-2	Tonscend	2025/05/30
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	2025/06/03
Temperature and humidity meter	UT330THC	C231446122	DZ-000249-2	UNI-T	2025/07/28
Temperature and humidity meter	UT330THC	C231446087	DZ-000249-5	UNI-T	2025/07/28

Dynacomm	Software Release	Software Developer
TS1120-3 Test System(Conduction test)	3.3.38	Tonscend
TS+ (5m,Radiation test)	JS32-RE 5.0.0	Tonscend

— No Body Text Below —

Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “—” or “N/A” means “not applicable”, “/” means “not testing”, “P” means “pass” and “F” means “fail”.

Address: No.3,Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663 Tel: 020-32293888

FAX: 020 32293889 E-mail: office@cvc.org.cn