Test Report Number:	**LCZE24120045**	***Total Page(s):*** 34
Applicant Name:	Infinite Candle Limited Trading as Sonua	
Applicant Address:	32 Campion Avenue, Abbeyfort, Kinsale, Co.Cork, Ireland, P17 R266.	
Test item:	Electronic flameless candle light	
Model / Type Reference:	CL-P198, CL-C158, CL-C195, CL-C235	
FCC ID:	2BNGT-CAN-I-V1	
Date of Issue:	2025-01-10	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	FCC 47 CFR Part 15 Subpart C: Section 15.247	
Test Result:	Passed	

Compiled by:			**Reviewed by:**		
2025-01-10	Rex He	Rex He	2025-01-10	Tension Li	Tension Li
Date	*Name*	*Signature*	*Date*	*Name*	*Signature*

Remark:

N/A

The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.

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1 Summary of Test Results

Description of Test Item	Standard	Result
Antenna Requirement	FCC Part 15 Subpart C:15.203/247(c)	PASS
AC Power Line Conducted Emission	FCC Part 15 Subpart C:15.207	PASS
ConductedPeak Output Power	FCC Part 15 Subpart C:15.247(b)	PASS
6 dB Bandwidth	FCC Part 15 Subpart C:15.247(a)(2)(iii)	PASS
Power Spectral Density	FCC Part 15 Subpart C:15.247(e)	PASS
Band Edge	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
Spurious Emission	FCC Part 15: 15.247(d)	PASS
Note: N/A is an abbreviation for Not Applicable,		

Test Standard Used:47 CFR Part 15 Subpart C: Section 15.247

Test procedure used: ANSI C63.10:2020

2 General test information

2.1 Description of EUT

Product Name	:	Electronic flameless candle light
Model Number	:	CL-P198, CL-C158, CL-C195, CL-C235
EUT function description	:	Please reference user manual of this device
Power supply	:	DC5V, 1A
FCC ID	:	2BNGT-CAN-I-V1
Radio Specification	:	Bluetooth V5.0
Operation frequency	:	2402MHz -2480MHz
Modulation	:	GFSK
Data rate	:	1M/2Mbps
Antenna Type	:	PCB antenna
Antenna Gain	:	2.5dBi

Remark:The device meets the requirements stated within Parts 15.247(g)&(h) in that they were Developed under the Bluetooth protocol and operate as a true frequency hopping system.The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

According to the declaration from the applicant, this report covers the model as below: CL-P198, CL-C158, CL-C195, CL-C235.These models were same sample, the difference of these models were appearance. Therefore only one model CP-P198 was fully tested in the report.

2.2 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	11	2422	21	2442	31	2462
2	2404	12	2424	22	2444	32	2464
3	2406	13	2426	23	2446	33	2466
4	2408	14	2428	24	2448	34	2468
5	2410	15	2430	25	2450	35	2470
6	2412	16	2432	26	2452	36	2472
7	2414	17	2434	27	2454	37	2474
8	2416	18	2436	28	2456	38	2476
9	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

2.3 Test channel list

Channel	Frequency (MHz)
1	2402
20	2440
40	2480

2.4 Testing

Date of receipt of test item :2024-12-16
Date (s) of performance of tests :2024-12-26 to 2025-01-07

2.5 Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	15-35℃
Humidity range:	20-75%
Pressure range:	98-101kPa

2.6 Test laboratory

LCTECH Guangdong Testing Services Co.,Ltd.

Add: 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Test Sites: 1/F., Building I, Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

2.7 Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.74dB
Uncertainty for Radiation Emission test(30MHz-1GHz)	4.92dB
Uncertainty for Radiation Emission test (Above 1GHz)	4.23dB

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

3 Equipment list

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Radiated Emission (30 MHz–1000 MHz)						☒
1	EMI Test Receiver	R&S	ESCI 7	100965	2024-06-26	2025-06-25
2	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2022-07-03	2025-07-02
3	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2024-12-17	2027-12-16
4	RF Cable	R&S	R01	10403	2024-12-09	2025-12-08
5	EMI Test Software	AUDIX	E3	Version No: 6.111221a	N/A	N/A
Disturbance Voltage						☒
6	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	2024-12-09	2025-12-08
7	Artificial Mains Network	Rohde&Schwarz	ENV216	3560655012	2024-12-09	2025-12-08
8	Shield Room	Rongxiang	8X5X3.5	992276296	2022-07-01	2025-06-30
9	Conducted Emission Test Software	FALA	EZ-EMC	Version No: LCTECH-03A	N/A	N/A
Radiated Emission (Above 1 GHz)						☒
10	EMI Test Receiver	R&S	ESCI 7	100965	2024-06-26	2025-06-25
11	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2022-07-03	2025-07-02
12	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2024-12-17	2027-12-16
13	RF Cable	R&S	R01	10403	2024-12-09	2025-12-08
14	CDNE	KeHuan	KH3663E	36630822	2024-06-26	2025-06-25
15	Doppelsteg Breitband Hornantenne Double Ridge Broadband Horn	Schwarzbeck	BBHA 9120 D	N/A	2024-12-11	2025-12-10
16	Signal Analyzer	Keysight	N9020A	SER MY52220373	2024-12-09	2025-12-08
17	Pre-amplifier	sinancidian	COP-01G18G-45dB	N/A	2024-12-09	2025-12-08

4 Test Results

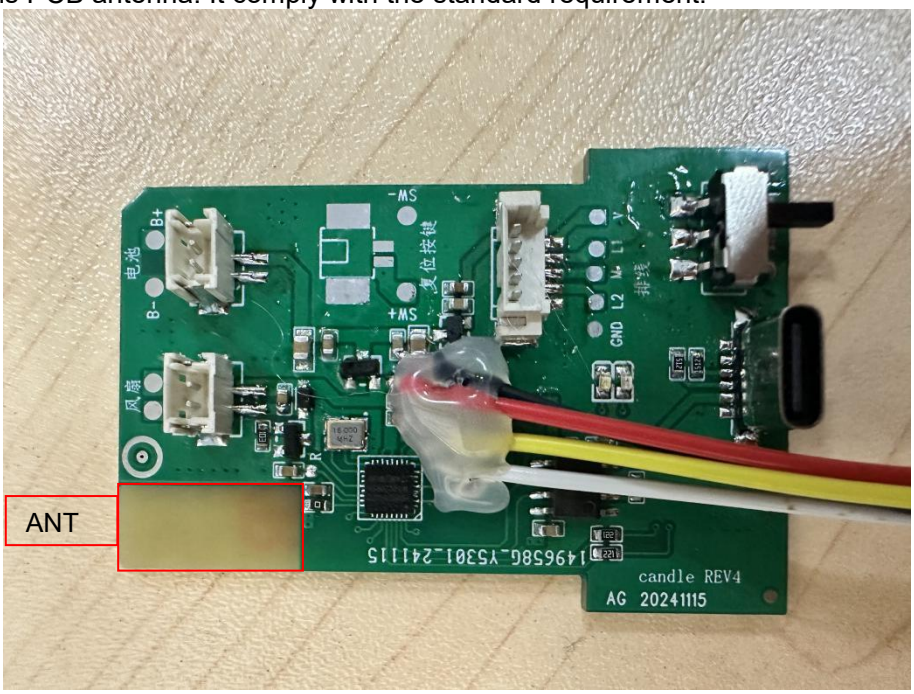
4.1 Antenna requirement

Standard requirement:

15.203 requirement:
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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

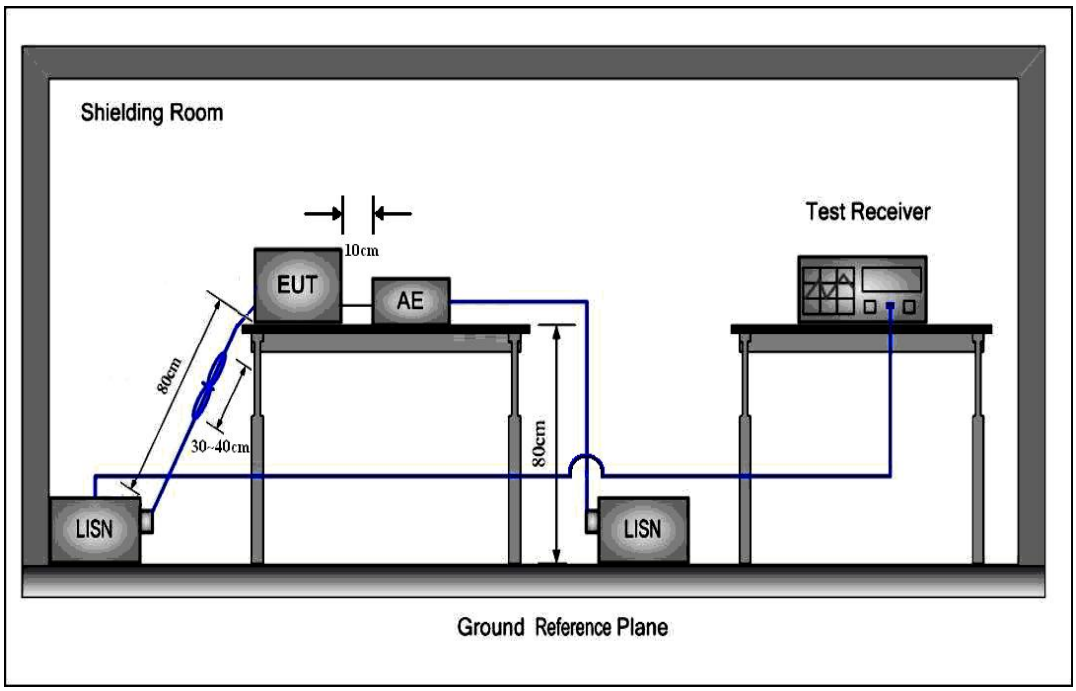
15.247(c) (1)(i) requirement:
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by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

E.U.T Antenna:
The antenna is PCB antenna. It comply with the standard requirement.

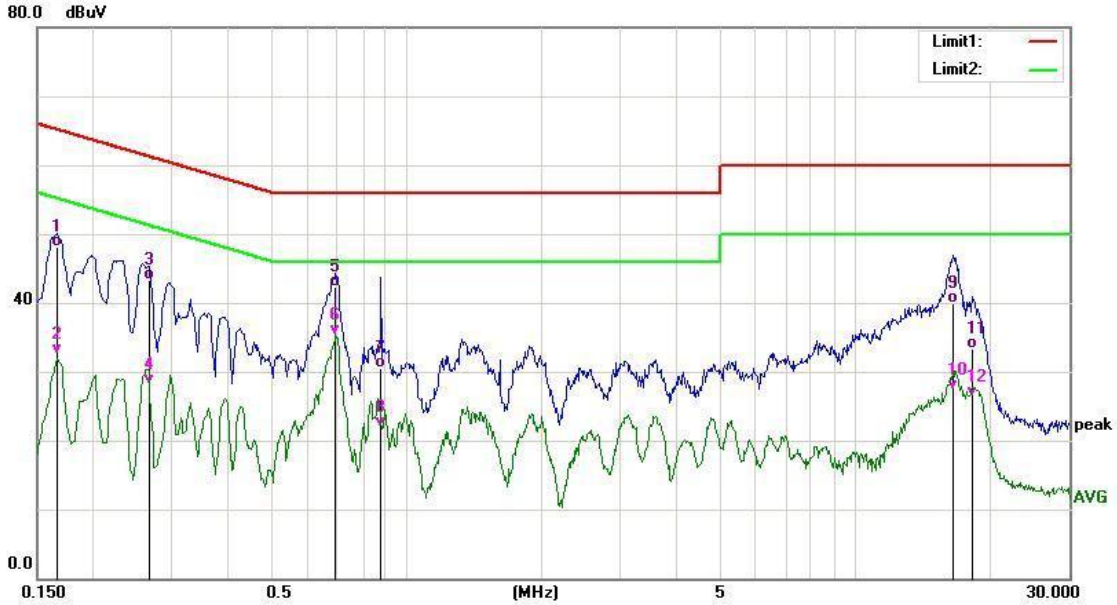


4.2 AC Power Line Conducted Emission

Test Connection Diagram



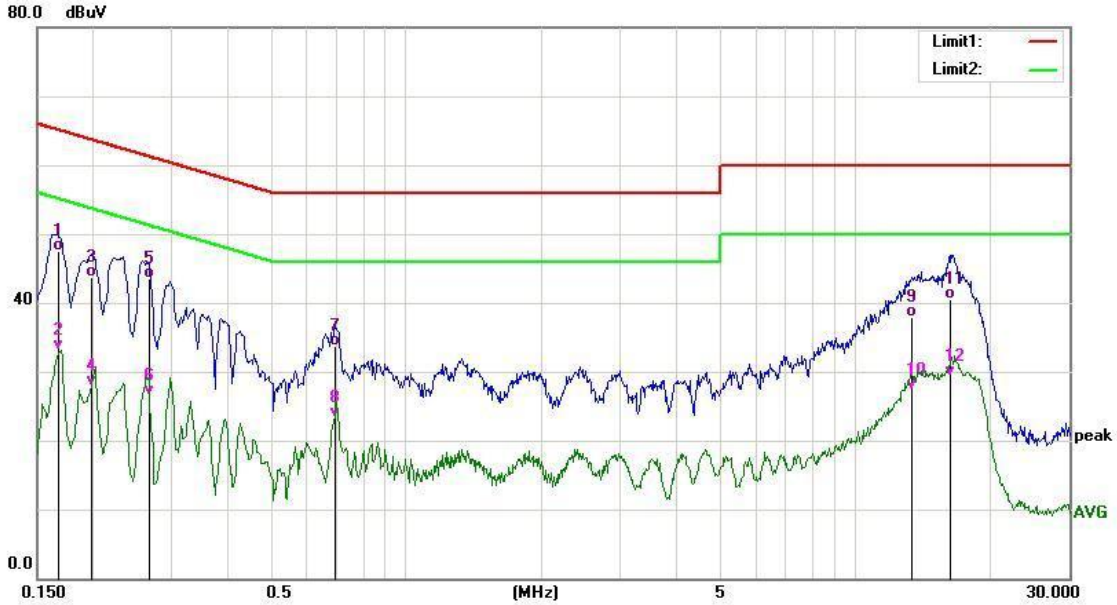
Charging mode
Live:



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	38.39	9.74	48.13	65.16	-17.03	QP
2	0.1660	22.72	9.74	32.46	55.16	-22.70	AVG
3	0.2660	33.38	9.86	43.24	61.24	-18.00	QP
4	0.2660	18.23	9.86	28.09	51.24	-23.15	AVG
5	0.6940	32.23	10.17	42.40	56.00	-13.60	QP
6	0.6940	25.06	10.17	35.23	46.00	-10.77	AVG
7	0.8780	20.40	10.20	30.60	56.00	-25.40	QP
8	0.8780	11.73	10.20	21.93	46.00	-24.07	AVG
9	16.5420	28.95	10.87	39.82	60.00	-20.18	QP
10	16.5420	16.52	10.87	27.39	50.00	-22.61	AVG
11	18.5740	22.36	10.99	33.35	60.00	-26.65	QP
12	18.5740	15.40	10.99	26.39	50.00	-23.61	AVG

Charging mode
Neutral:

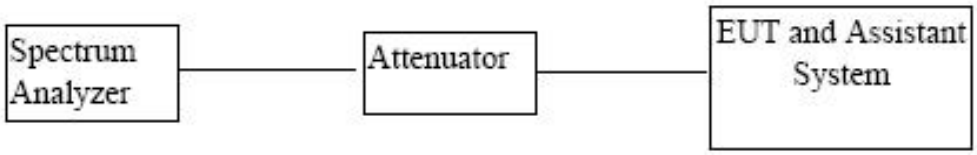


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1685	37.84	9.74	47.58	65.03	-17.45	QP
2	0.1685	23.45	9.74	33.19	55.03	-21.84	AVG
3	0.2007	33.93	9.77	43.70	63.58	-19.88	QP
4	0.2007	18.18	9.77	27.95	53.58	-25.63	AVG
5	0.2660	33.55	9.86	43.41	61.24	-17.83	QP
6	0.2660	16.62	9.86	26.48	51.24	-24.76	AVG
7	0.6900	23.60	10.17	33.77	56.00	-22.23	QP
8	0.6900	13.14	10.17	23.31	46.00	-22.69	AVG
9	13.3660	27.22	10.68	37.90	60.00	-22.10	QP
10	13.3660	16.72	10.68	27.40	50.00	-22.60	AVG
11	16.2580	29.75	10.85	40.60	60.00	-19.40	QP
12	16.2580	18.43	10.85	29.28	50.00	-20.72	AVG

4.3 ConductedPeak Output Power

Test Connection Diagram



Test Procedure

(1) Configure EUT and assistant system according clause 2.3 and 3.2

(2) Connect EUT's antenna output to spectrum analyzer by RF cable.

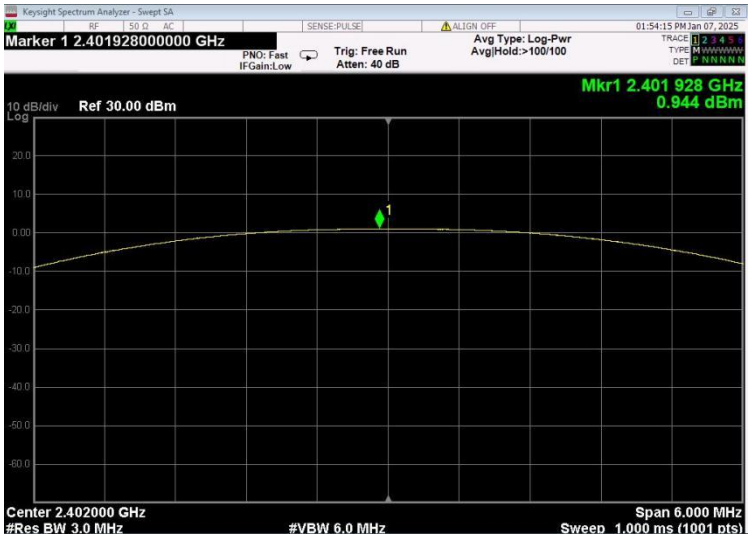
(3) Configure EUT work in test mode as stated in clause 2.3.

(4) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 20dB bandwidth of measured signal), VBW=3MHz

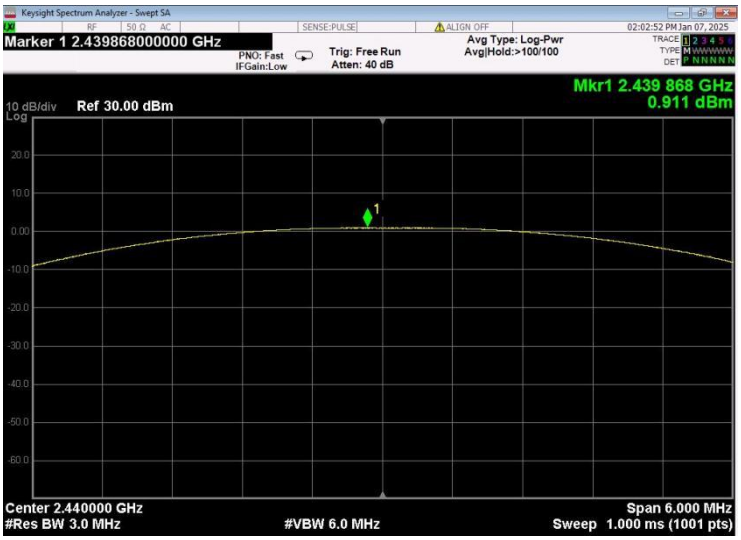
Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

Test Result:

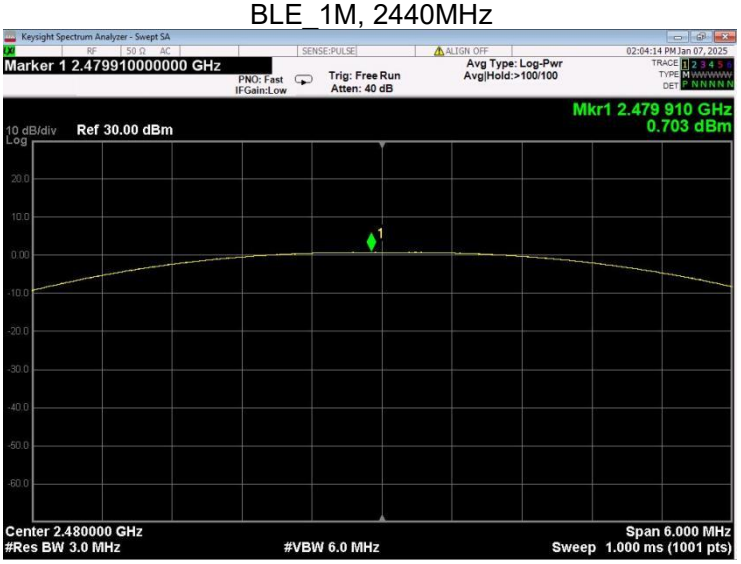
Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
BLE_1M	Ant1	2402	0.944	≤30	PASS
BLE_1M	Ant1	2440	0.911	≤30	PASS
BLE_1M	Ant1	2480	0.703	≤30	PASS
BLE_2M	Ant1	2402	0.981	≤30	PASS
BLE_2M	Ant1	2440	0.833	≤30	PASS
BLE_2M	Ant1	2480	0.744	≤30	PASS



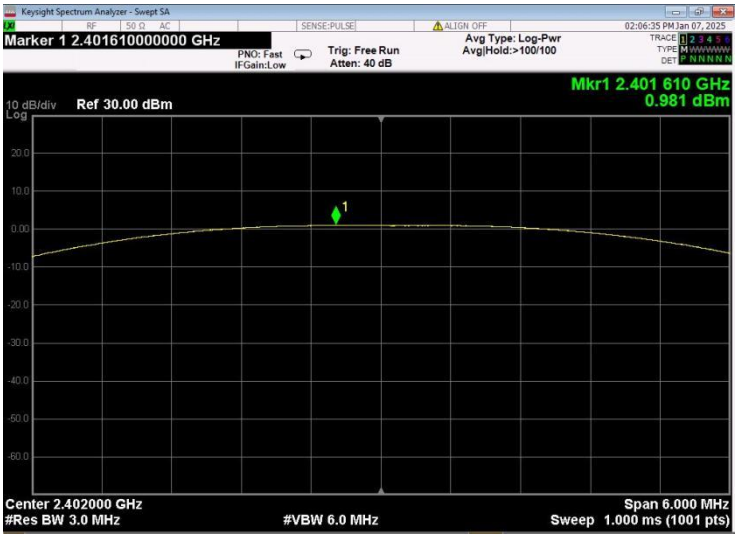
BLE_1M, 2402MHz



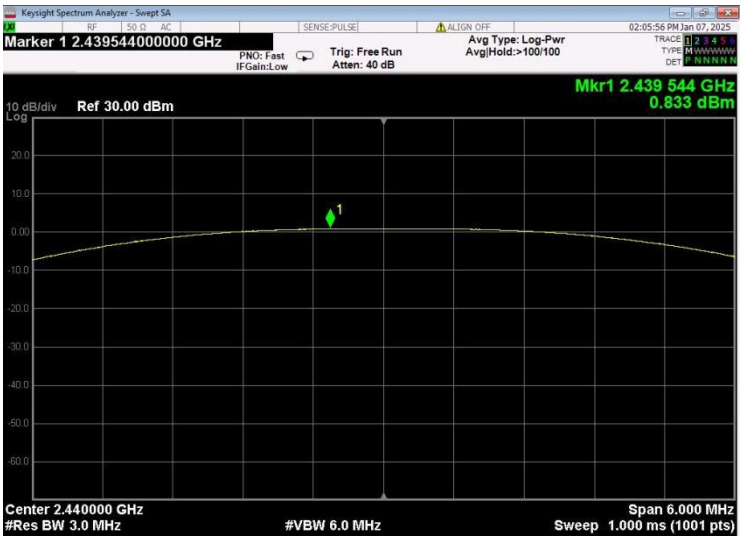
BLE_1M, 2440MHz



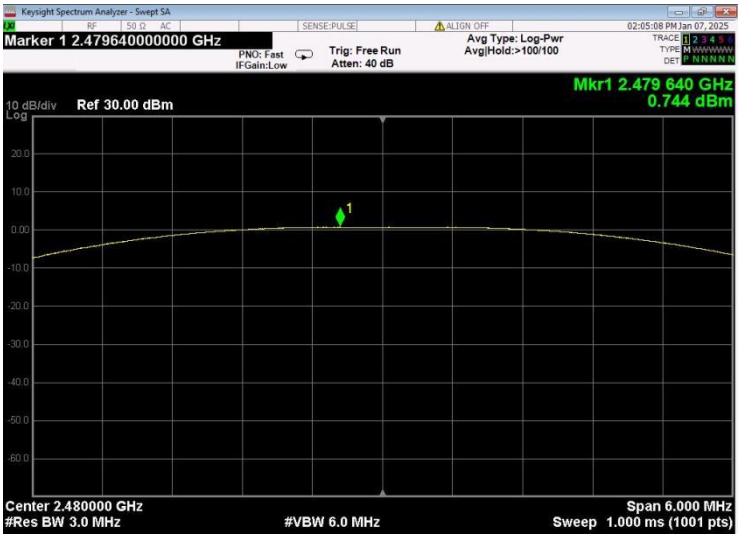
BLE_1M,2480MHz



BLE_2M, 2402MHz



BLE_2M, 2440MHz



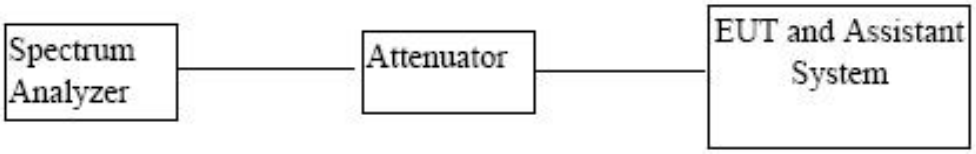
BLE_2M,2480MHz

4.4 6 dB Bandwidth

Limit:

Frequency range (MHz)	Standard requirement	Limit
2402-2480	FCC Part 15 Subpart C: 15.247(a)(2)(iii)	⩾500kHz

Test setup:



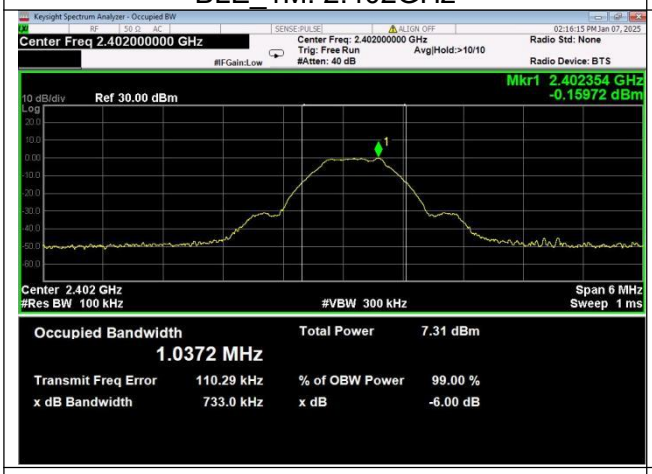
Test procedure:

Set the spectrum analyzer:
a) Set RBW = 100 kHz
b) Set the VBW⩾[3 × RBW]
c) Detector = peak.
d) Trace mode = max hold.
e) Sweep = auto couple
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
h) Span=2*BW~5*BW

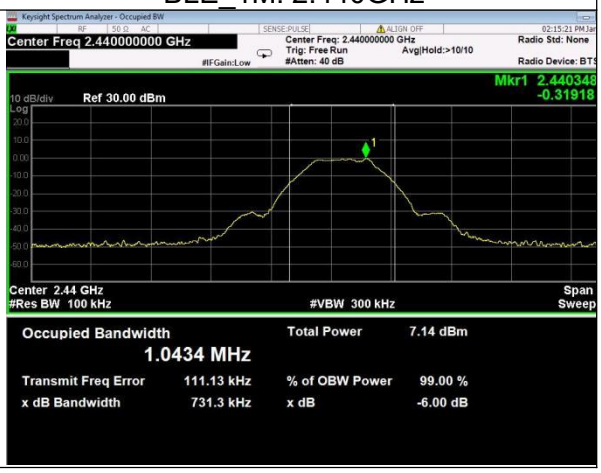
Test results:

Test Mode	Frequency (MHz)	Measured 6dBbandwidth (MHz)	Limit	Result
BLE_1M	2402	0.733	⩾500kHz	Pass
BLE_1M	2440	0.731	⩾500kHz	Pass
BLE_1M	2480	0.753	⩾500kHz	Pass
BLE_2M	2402	1.399	⩾500kHz	Pass
BLE_2M	2440	1.394	⩾500kHz	Pass
BLE_2M	2480	1.404	⩾500kHz	Pass

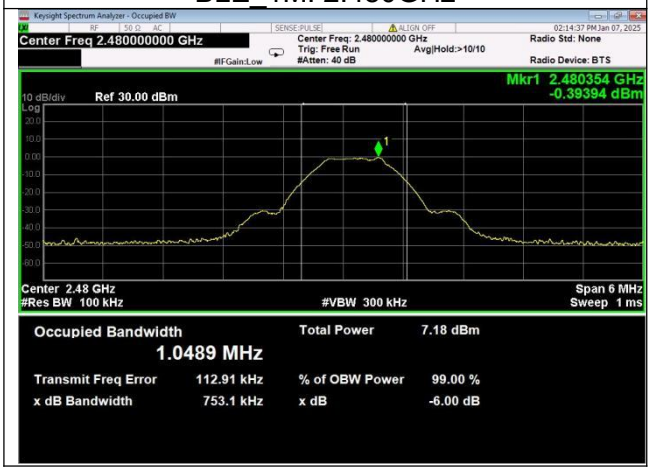
BLE_1M: 2.402GHz



BLE_1M: 2.440GHz



BLE_1M: 2.480GHz



BLE_2M: 2.402GHz

BLE_2M: 2.440GHz

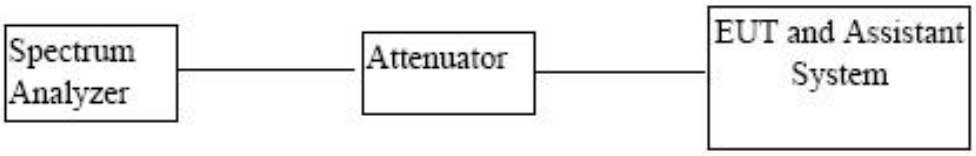
BLE_2M: 2.480GHz

4.5 Power Spectral Density

Limit:

Frequency range (MHz)	Standard requirement	Limit
2402-2480	FCC Part 15 Subpart C: 15.247(e)	8 dbm (in any 3kHz)

Test setup:



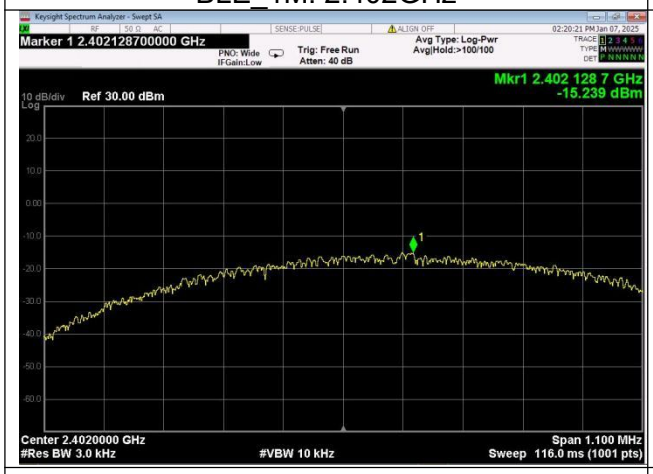
Test procedure:

Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW to 3 kHz≤RBW ≤100 kHz.
d) Set the VBW ≥[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE_1M	2402	-15.239	8	Pass
BLE_1M	2440	-15.543	8	Pass
BLE_1M	2480	-15.023	8	Pass
BLE_2M	2402	-20.602	8	Pass
BLE_2M	2440	-21.042	8	Pass
BLE_2M	2480	-20.626	8	Pass

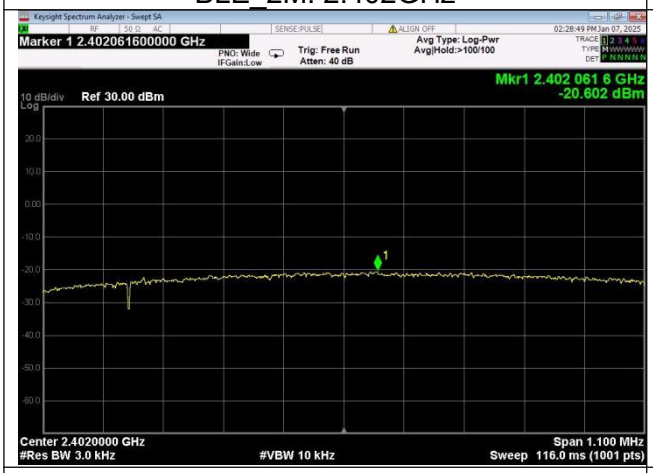
BLE_1M: 2.402GHz



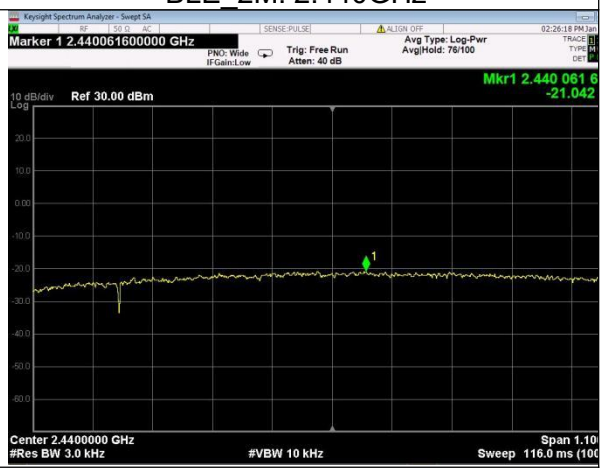
BLE_1M: 2.440GHz

BLE_1M: 2.480GHz

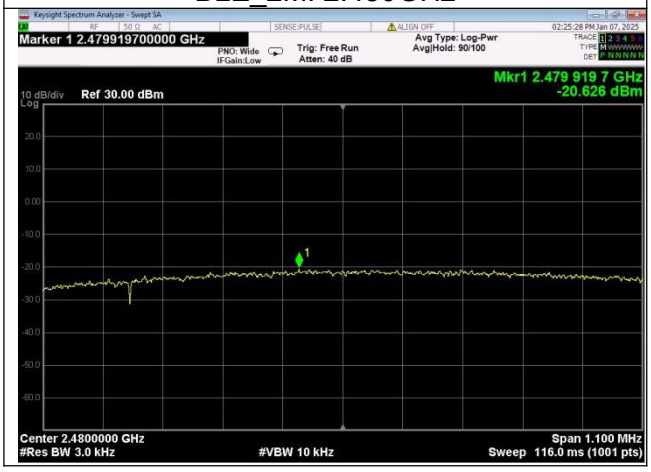
BLE_2M: 2.402GHz



BLE_2M: 2.440GHz



BLE_2M: 2.480GHz

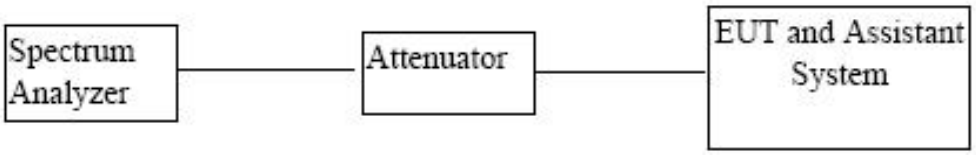


4.6 Band Edge

Limit:

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:

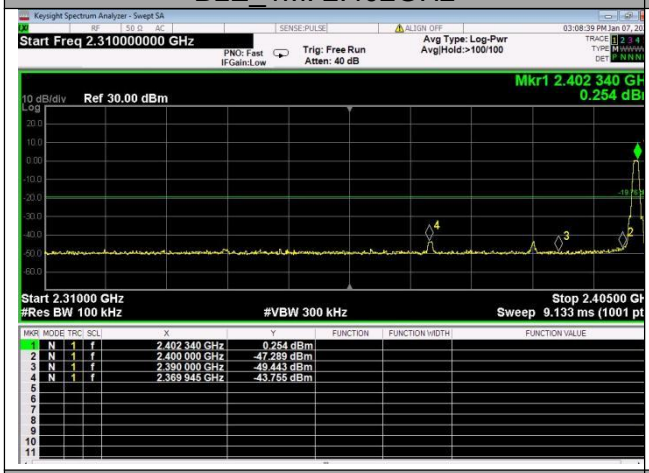


Test procedure:

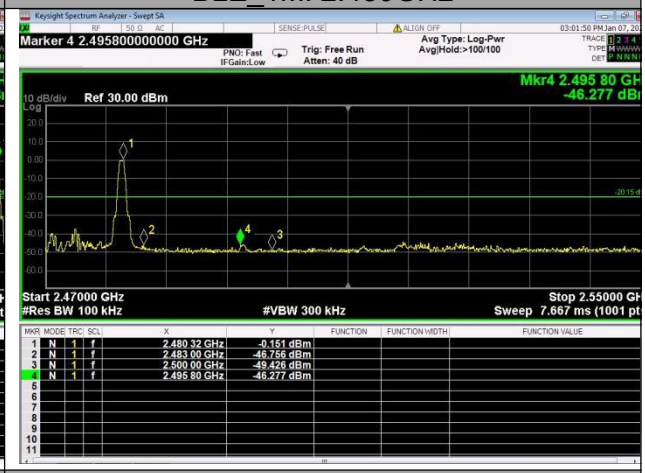
Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ⩾[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

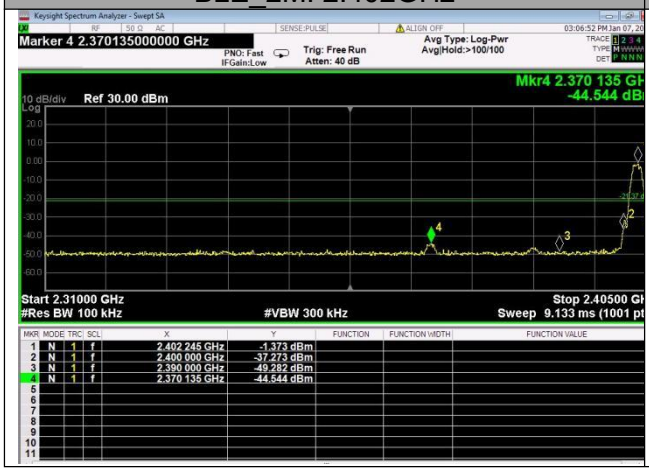
BLE_1M: 2.402GHz



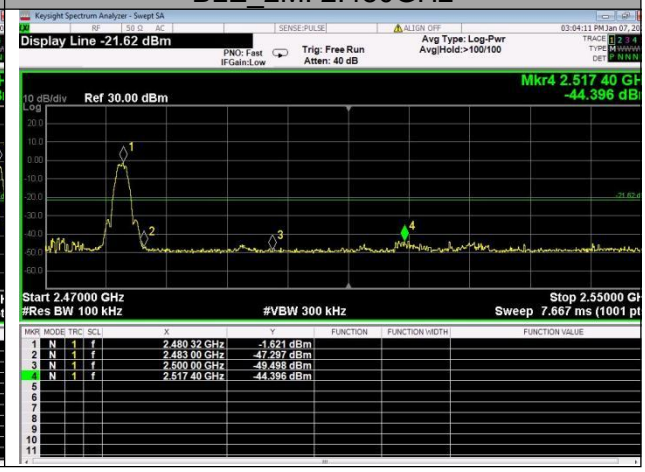
BLE_1M: 2.480GHz



BLE_2M: 2.402GHz



BLE_2M: 2.480GHz

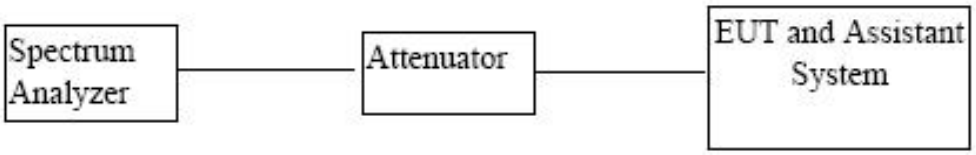


4.7 Spurious RF conducted emissions

Limit:

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:

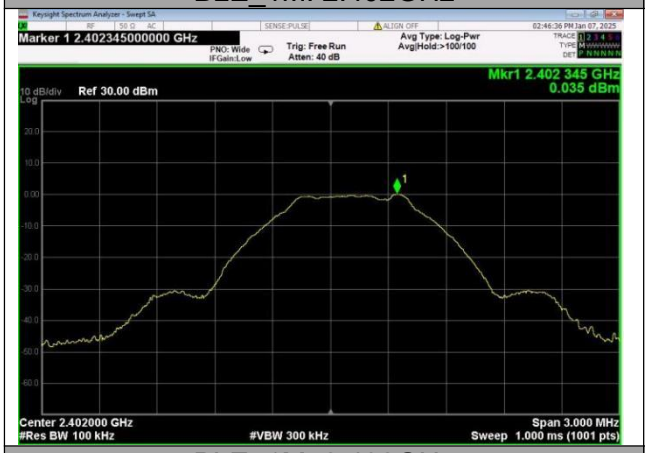


Test procedure:

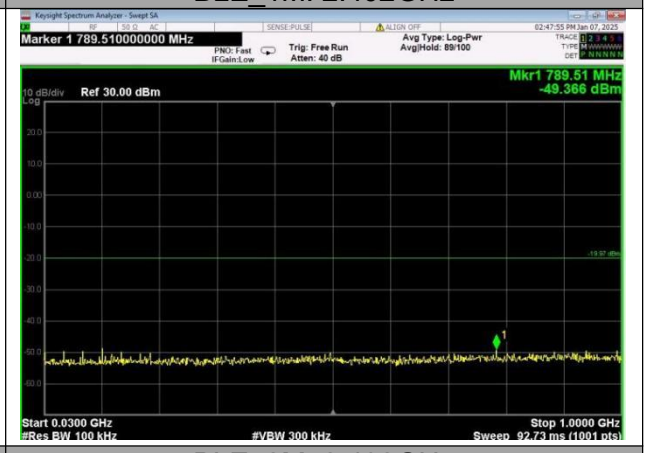
Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ⩾[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

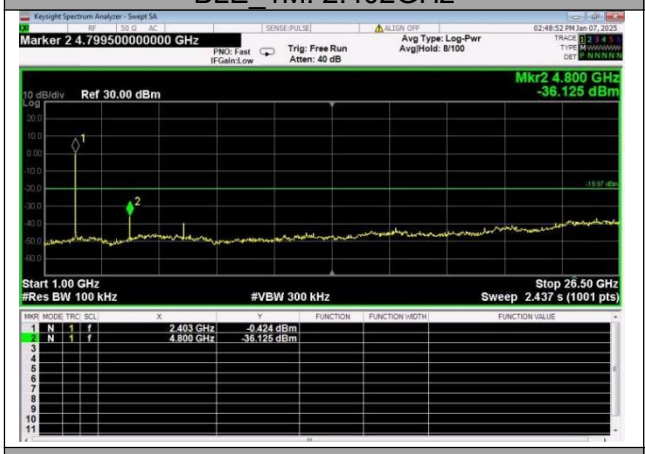
BLE_1M: 2.402GHz



BLE_1M: 2.402GHz

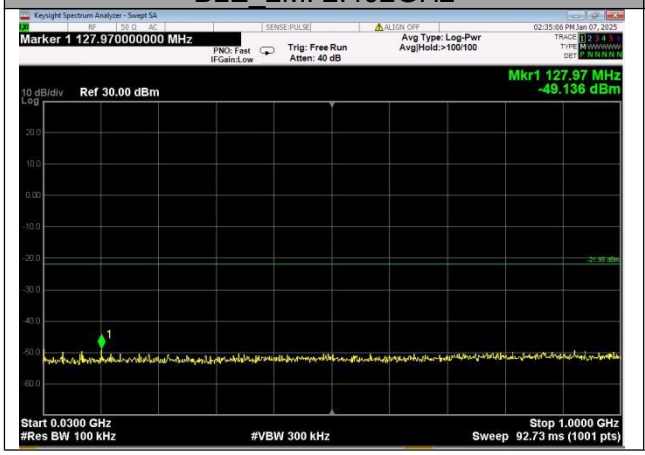


BLE_1M: 2.402GHz

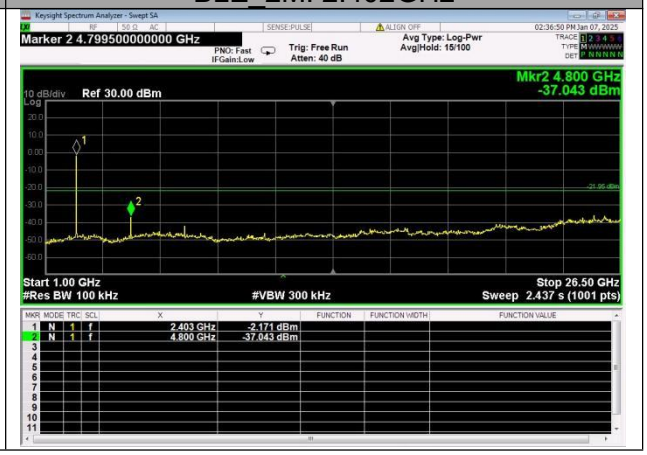


BLE_2M: 2.402GHz

BLE_2M: 2.402GHz

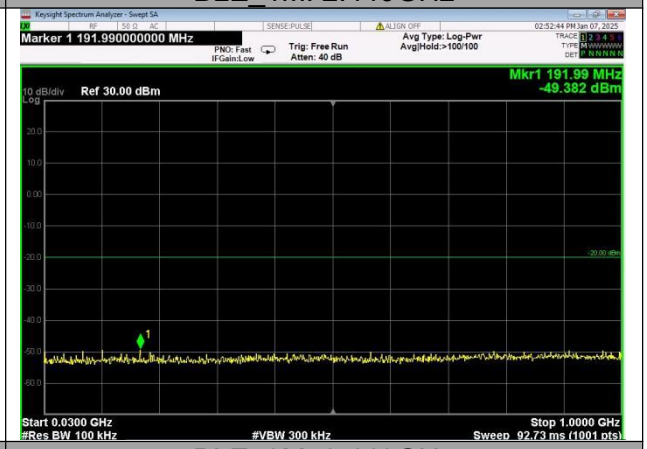


BLE_2M: 2.402GHz



BLE_1M: 2.440GHz

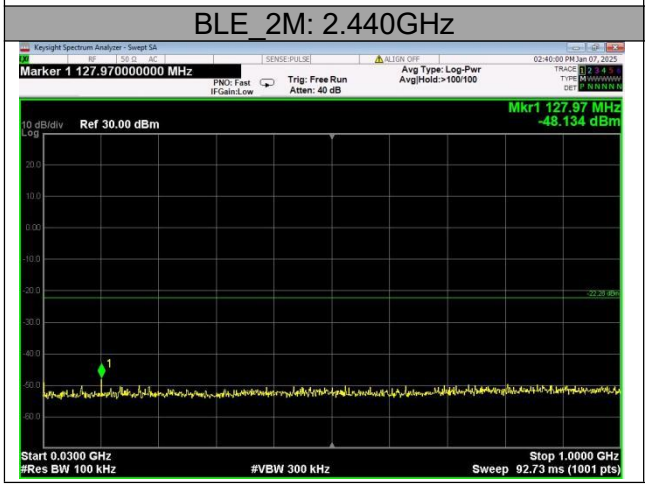
BLE_1M: 2.440GHz



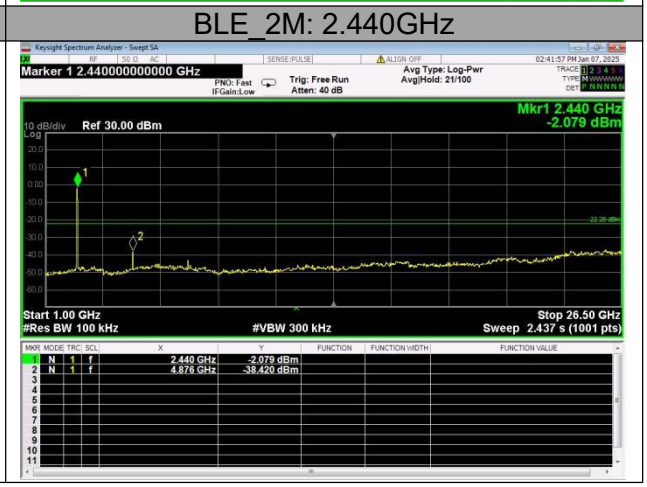
BLE_1M: 2.440GHz

BLE_2M: 2.440GHz

BLE_2M: 2.440GHz

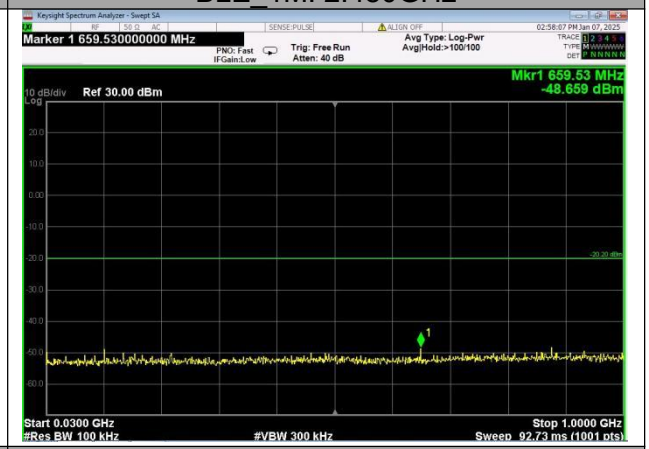


BLE_2M: 2.440GHz

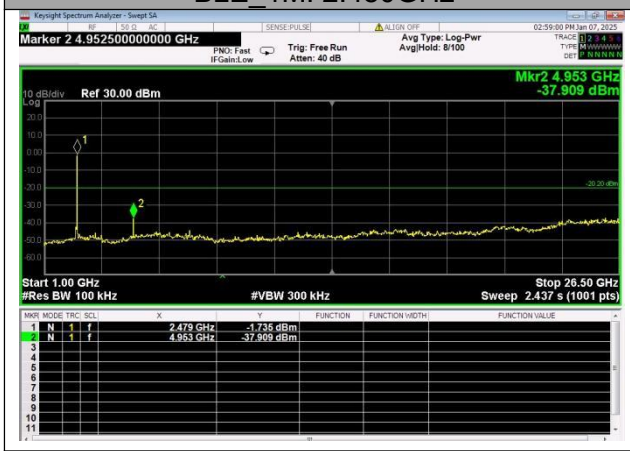


BLE_1M: 2.480GHz

BLE_1M: 2.480GHz

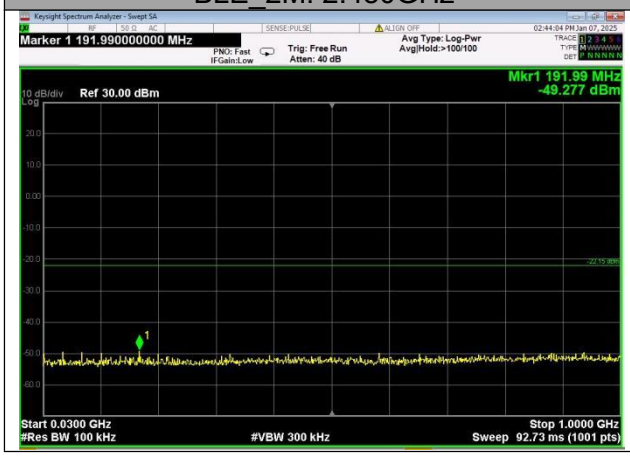


BLE_1M: 2.480GHz

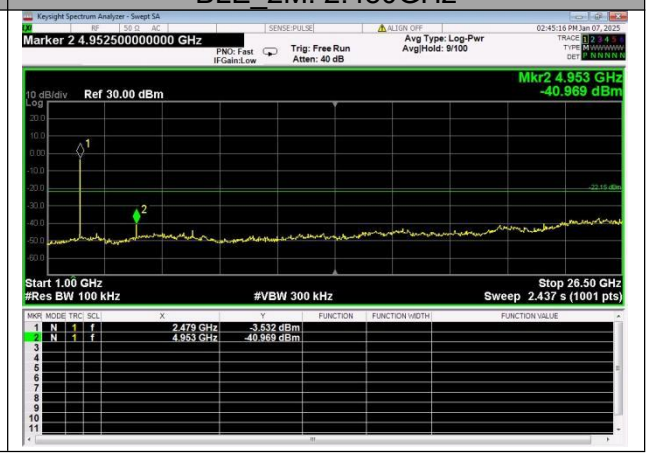


BLE_2M: 2.480GHz

BLE_2M: 2.480GHz



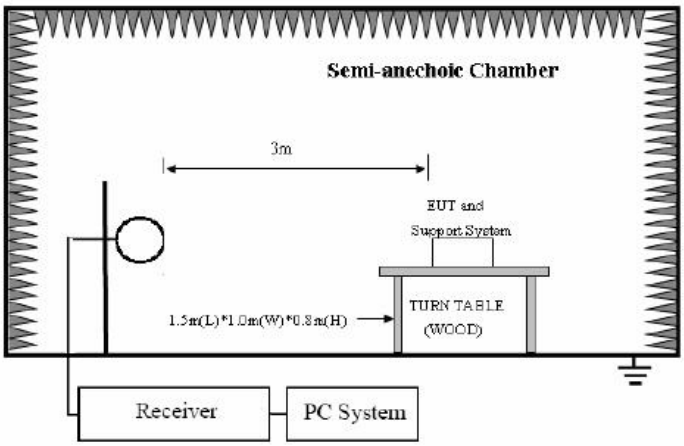
BLE_2M: 2.480GHz



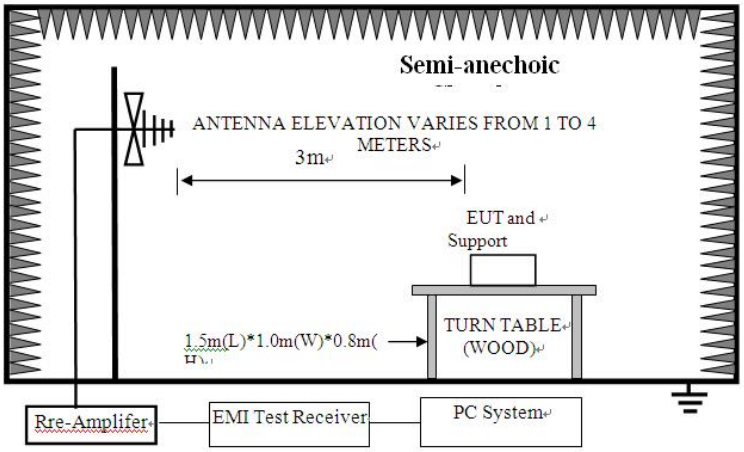
4.8 Spurious Radiated emission

Test setup:

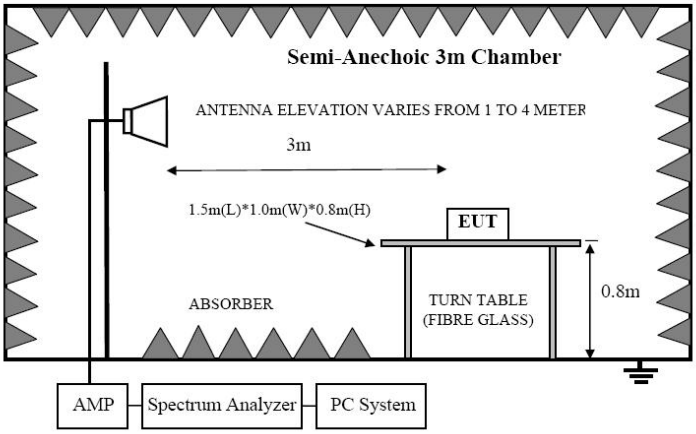
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

Limit
FCC 15.205 Restricted frequency band

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
6.215 - 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 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

FCC 15.209 Limit.

Frequency（MHz）	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		uV/m	dB(uV)/m
0.009 ~ 0.490	300	2400/F(KHz) 67.6	20log(F)
0.490 ~ 1.705	30	24000/F(KHz) 87.6	20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPRQP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.Radiatedemissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

Limit3m(dBuV/m)= Limit30m(dBuV/m) + 40Log(30m/3m)

Limit for this EUT
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with15.209 limits.

Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoicchamber.

(2) Setup EUT and assistant system according clause 2.3 and 8.2

(3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2009 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antennawas positioned with its plane vertical from the EUT and rotated about its vertical axis for maximumresponse at each azimuth position around the EUT. And the loop antenna also be positioned with its planehorizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. Formeasurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT,Measurements were made with the antenna positioned in both the horizontal and vertical planes ofPolarization, and the measurement antenna was varied from 1 m to 4 m. in height above the referenceground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiatedemissions from 9KHz to 25GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT wasrotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it’s fixed 1m aboveground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produceshighest emissions.Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated,

and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performedwith frequency range from 9KHz to 18GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antennaheight was varied between 1m and 4m in order to maximize the emission. Measurements in bothhorizontal and vertical polarities were made and the data was recorded. In order to find the maximumemission, the relative positions of equipments and all of the interface cables were changed according toANSI C63.10 2009 on Radiated Emission test.

(6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz andabove 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions alsobe measured and need comply with Peak limit.

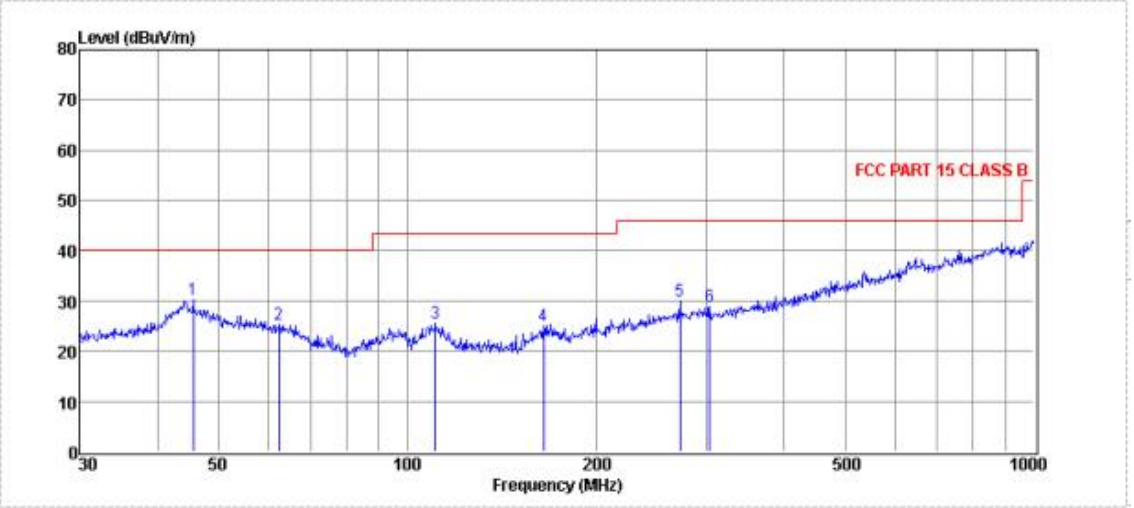
(7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver withbelow RBW

Frequency Band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, andthe RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at10Hz for Average measure(according ANSI C63.10:2009 clause 4.2.3.2.3 procedure for averagemeasure). Both PK and AV level test, PK detector is used.

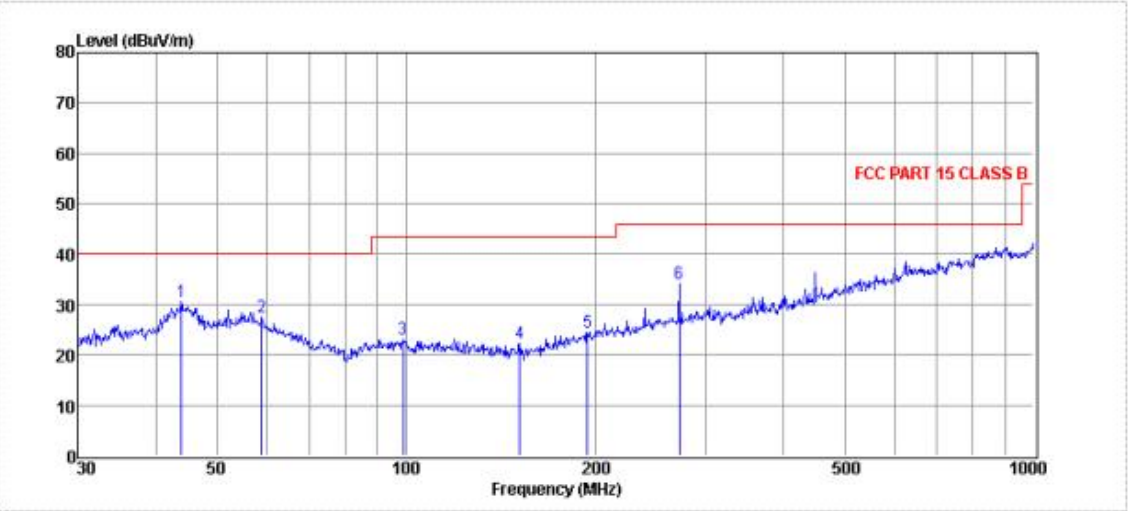
Test result:

Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz,
Below 1G:
Horizontal:



Item	Freq	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBμV)	(dB/m)	dB	dB	(dBμV/m)	(dBμV/m)	(dB)		
1	45.54	13.29	16.20	0.00	0.66	30.15	40.00	-9.85	Peak	HORIZONTAL
2	62.43	12.63	12.12	0.00	0.65	25.40	40.00	-14.60	Peak	HORIZONTAL
3	110.96	12.36	12.15	0.00	1.11	25.62	43.50	-17.88	Peak	HORIZONTAL
4	164.91	13.13	10.59	0.00	1.34	25.06	43.50	-18.44	Peak	HORIZONTAL
5	272.28	14.72	13.25	0.00	1.98	29.95	46.00	-16.05	Peak	HORIZONTAL
6	303.54	12.73	14.06	0.00	2.12	28.91	46.00	-17.09	Peak	HORIZONTAL

Vertical:



Item	Freq	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBμV)	(dB/m)	dB	dB	(dBμV/m)	(dBμV/m)	(dB)		
1	43.81	13.19	16.78	0.00	0.68	30.65	40.00	-9.35	Peak	VERTICAL
2	58.82	13.18	13.67	0.00	0.75	27.60	40.00	-12.40	Peak	VERTICAL
3	98.83	11.88	10.27	0.00	0.83	22.98	43.50	-20.52	Peak	VERTICAL
4	151.60	13.35	7.66	0.00	1.25	22.26	43.50	-21.24	Peak	VERTICAL
5	194.45	12.59	10.42	0.00	1.54	24.55	43.50	-18.95	Peak	VERTICAL
6	272.28	18.79	13.25	0.00	1.98	34.02	46.00	-11.98	Peak	VERTICAL

Above 1G:

BLE_1M
2402MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2310	54.15	27.34	53.97	4.35	31.87	54.00	-22.13	Average	H
2	2310	64.26	27.34	53.97	4.35	41.98	74.00	-32.02	Peak	H
3	4825	51.86	32.43	53.30	5.00	35.99	54.00	-18.01	Average	H
4	4825	62.65	32.43	53.30	5.00	46.78	74.00	-27.22	Peak	H
5	2310	48.69	27.34	53.97	4.35	26.41	54.00	-27.59	Average	V
6	2310	59.72	27.34	53.97	4.35	37.44	74.00	-36.56	Peak	V
7	4842	47.87	32.47	53.30	5.00	32.04	54.00	-21.96	Average	V
8	4842	58.03	32.47	53.30	5.00	42.20	74.00	-31.80	Peak	V

2440MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4842	48.17	32.47	53.30	5.00	32.34	54.00	-21.66	Average	H
2	4842	58.10	32.47	53.30	5.00	42.27	74.00	-31.73	Peak	H
3	4859	47.17	32.52	53.29	5.00	31.40	54.00	-22.60	Average	V
4	4859	57.56	32.52	53.29	5.00	41.79	74.00	-32.21	Peak	V

2480MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2496	52.53	27.77	53.95	4.55	30.90	54.00	-23.10	Average	H
2	2496	63.11	27.77	53.95	4.55	41.48	74.00	-32.52	Peak	H
3	4978	45.69	32.82	53.23	5.00	30.28	54.00	-23.72	Average	H
4	4978	56.47	32.82	53.23	5.00	41.06	74.00	-32.94	Peak	H
5	2496	50.70	27.77	53.95	4.55	29.07	54.00	-24.93	Average	V
6	2496	60.25	27.77	53.95	4.55	38.62	74.00	-35.38	Peak	V
7	4944	47.25	32.74	53.25	5.00	31.74	54.00	-22.26	Average	V
8	4944	57.73	32.74	53.25	5.00	42.22	74.00	-31.78	Peak	V

BLE_2M
2402MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2326	50.27	27.38	53.97	4.37	28.05	54.00	-25.95	Average	H
2	2326	60.12	27.38	53.97	4.37	37.90	74.00	-36.10	Peak	H
3	4825	48.57	32.43	53.30	5.00	32.70	54.00	-21.30	Average	H
4	4825	58.94	32.43	53.30	5.00	43.07	74.00	-30.93	Peak	H
5	2309	49.88	27.34	53.97	4.35	27.60	54.00	-26.40	Average	V
6	2309	59.09	27.34	53.97	4.35	36.81	74.00	-37.19	Peak	V
7	4876	47.59	32.56	53.28	5.00	31.87	54.00	-22.13	Average	V
8	4876	57.37	32.56	53.28	5.00	41.65	74.00	-32.35	Peak	V

2440MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4876	50.20	32.56	53.28	5.00	34.48	54.00	-19.52	Average	H
2	4876	60.60	32.56	53.28	5.00	44.88	74.00	-29.12	Peak	H
3	4893	48.87	32.60	53.27	5.00	33.20	54.00	-20.80	Average	V
4	4893	58.63	32.60	53.27	5.00	42.96	74.00	-31.04	Peak	V

2480MHz:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2496	52.67	27.77	53.95	4.55	31.04	54.00	-22.96	Average	H
2	2496	63.16	27.77	53.95	4.55	41.53	74.00	-32.47	Peak	H
3	4944	46.85	32.74	53.25	5.00	31.34	54.00	-22.66	Average	H
4	4944	56.99	32.74	53.25	5.00	41.48	74.00	-32.52	Peak	H
5	2496	51.58	27.77	53.95	4.55	29.95	54.00	-24.05	Average	V
6	2496	61.47	27.77	53.95	4.55	39.84	74.00	-34.16	Peak	V
7	4961	52.57	32.78	53.24	5.00	37.11	54.00	-16.89	Average	V
8	4961	62.74	32.78	53.24	5.00	47.28	74.00	-26.72	Peak	V

5 Test Setup Photo

Refer to <Setup Photos>

6 Test Setup of EUT

Refer to <External Photos and Internal Photos>

------End of test report------