

FCC Test Report

Report No.: LDF-ESH-P25122081B-1

FCC ID: DWNTDBU25ZB

Product: TDBU 25 WF ZIGBEE HP

Test Model: 5183668

Received Date: May.12, 2026

Test Date: May.12 to Jun.02, 2026

Issued Date: Jun.03, 2026

Applicant: Somfy Systems Inc

Address: 121 Herrod Blvd., Dayton, NJ 08810

Manufacturer: Somfy Activités SA

Address: 50 avenue du Nouveau Monde 74300 CLUSES - FRANCE

Issued By: BUREAU VERITAS LCIE CHINA COMPANY LIMITED

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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Release Control Record

Issue No.	Description	Date Issued
LDF-ESH-P25122081B-1	Original release	Jun.03, 2026

1 Certificate of Conformity

Product: TDBU 25 WF ZIGBEE HP

Brand: **somfy®**

Test Model: 5183668

Applicant: Somfy Systems Inc

Test Date: May.12 to Jun.02, 2026

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2020

The above equipment has been tested by BUREAU VERITAS LCIE CHINA COMPANY LIMITED, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

The test results in this report apply exclusively to the tested model / sample. Without written approval of BUREAU VERITAS LCIE CHINA COMPANY LIMITED, the test report shall not be reproduced except in full.

BUREAU VERITAS LCIE CHINA COMPANY LIMITED lab is not responsible for the incorrect test results caused by the incorrect information provided by the applicant (such as the maximum internal operating frequency, antenna gain, cable loss, etc.)

Prepared by :



, Date:

Jun.03, 2026

Yan ZHOU

Project Engineer

Approved by :



, Date:

Jun.03, 2026

Sean YU

RF Supervisor

2 Summary of Test Results

The EUT has been tested according to the following specifications:

47 CFR FCC Part 15, Subpart C (SECTION 15.247)			
FCC Clause	Test Item	Result	Remarks
15.203	Antenna Requirement	PASS	No antenna connector is used.
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(a)(2)	Minimum 6dB Bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output Power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.247(d)	Conducted Band Edges Measurement	PASS	Meet the requirement of limit.
15.247(d)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
15.247(d)	Emissions in restricted frequency bands	PASS	Meet the requirement of limit.
15.205 / 15.209 / 15.247(d)	Radiated Emissions Measurement	PASS	Meet the requirement of limit.

2.1 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Loop Antenna	ETS-LINDGREN	6502	E1A1039	Jul.30,24	Jul.29,26
Hybrid Antenna(25MHz-1.5GHz)	Schwarzbeck	VULB9168	E1A1001	Mar.30,26	Mar.29,28
Horn Antenna(1GHz -18GHz)	Schwarzbeck	BBHA9120D	E1A1017	Jul.31,24	Jul.30,26
Double Ridge Horn Antenna(18G-40G)	COM-POWER	AH-840	E1A1040	Jul.31,24	Jul.30,26
Pre-Amplifier(100kHz-1.3GHz)	Agilent	8447D	E1A2001	Feb.02,26	Feb.01,27
Pre-Amplifier(0.5GHz-18GHz)	EMCI	EMC184045SE	E1A2009	Jun.26,25	Jun.25,26
Pre-Amplifier(18GHz-40GHz)	Toscend	TAP18040048	E1A2014	May.27,26	May.26,27
EMI test receiver	R&S	ESR26	E1R1009	Aug.12,25	Aug.11,26
Spectrum Analyzer	Keysight	N9030B	E1S1003	May.22,26	May.21,27
Spectrum Analyzer	Keysight	N9020A	E1S1004	Feb.10,26	Feb.09,27
EMI test receiver	R&S	ESR3	E1R1008	Aug.12,25	Aug.11,26
LISN	R&S	ENV216	E1L1013	Aug.18,25	Aug.17, 26
RF cable(30MHz~26.5GHz)	--	--	--	Mar.31,26	Mar.30,27
RF cable(9kHz~1GHz)	--	--	E3T4104/0 5/06/07	Mar.19,26	Mar.18,27
RF cable(1GHz~40GHz)	--	--	E3T4108/0 9/10/11	Mar.31,26	Mar.30,27
Humidity&Temp Tester	ESPEC	SE TH-Z-042U	C1TH002	Jun.04,26	Jun.03,27
RF Control Unit	Toscend	JS0806-2	E1C5003	N/A	N/A
Test Software	Toscend	JS32-CE	N/A	N/A	N/A
Test Software	Toscend	JS32-RE	N/A	N/A	N/A
Test Software	Toscend	JS1120	N/A	N/A	N/A
Test Software	Toscend	JS1120-3	N/A	N/A	N/A

2.2 Test Facility

Laboratory Name: BUREAU VERITAS LCIE CHINA COMPANY LIMITED

Laboratory Address: No.829, Xin Zhuan Road, Song Jiang District, Shanghai, China

Test Location: No.829, Xin Zhuan Road, Song Jiang District, Shanghai, China

A2LA Lab Code: 2343.01

FCC-Recognized Accredited Testing Lab: CN1213

ISED Recognized Lab: 6392A

FCC Accredited Test Site Number: 176467

CAB identifier: CN0070

2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

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

Measurement	Frequency	Expanded Uncertainty ($k=2$) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.56 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.08 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.12 dB

2.4 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	TDBU 25 WF ZIGBEE HP
Brand	somfy [®]
Test Model	5183668
Power Rating	12V---;
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 5.0
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	6.29 dBm
Antenna Type	External Antenna
Antenna Connector	--
Antenna Gain	1 dBi
Product SW/HW version	--
Radio SW/HW version	--
Test SW version	--
RF power setting in Test SW	--

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

3.2 Description of Test Modes

40 channels are provided for Bluetooth LE.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
0	2402 MHz	20	2442 MHz
1	2404 MHz	21	2444 MHz
2	2406 MHz	22	2446 MHz
3	2408 MHz	23	2448 MHz
4	2410 MHz	24	2450 MHz
5	2412 MHz	25	2452 MHz
6	2414 MHz	26	2454 MHz
7	2416 MHz	27	2456 MHz
8	2418 MHz	28	2458 MHz
9	2420 MHz	29	2460 MHz
10	2422 MHz	30	2462 MHz
11	2424 MHz	31	2464 MHz
12	2426 MHz	32	2466 MHz
13	2428 MHz	33	2468 MHz
14	2430 MHz	34	2470 MHz
15	2432 MHz	35	2472 MHz
16	2434 MHz	36	2474 MHz
17	2436 MHz	37	2476 MHz
18	2438 MHz	38	2478 MHz
19	2440 MHz	39	2480 MHz

3.2.1 Test Mode Applicability:

EUT Configure Mode	Applicable to				Description
	RE ≥ 1G	RE < 1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz

RE< 1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	BLE	0 to 39	0, 19, 39	GFSK

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	BLE	0 to 39	0	GFSK

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	BLE	0 to 39	0	GFSK

Antenna Port Conducted Measurement

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	BLE	0 to 39	0, 19, 39	GFSK

3.2.2 Test Condition:

Applicable to	Normal Environmental Conditions	Normal Input Power
RE ≥ 1G	23deg. C, 58%RH	DC 12V
RE < 1G	23deg. C, 58%RH	DC 12V
PLC	23deg. C, 58%RH	DC 12V
APCM	25deg. C, 60%RH	DC 12V



3.3 Duty Cycle of Test Signal

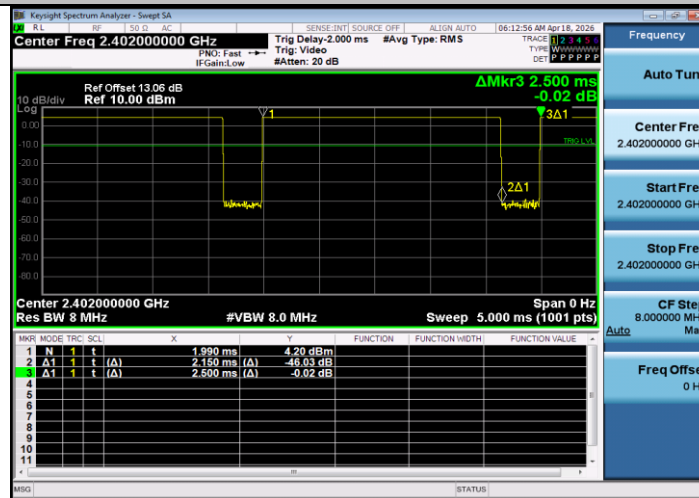
TestMode	Antenna	Freq(MHz)	DC [%]	xFactor
BLE_1M	Ant1	2402	86.00	0.66
		2440	86.00	0.66
		2480	85.60	0.68

Note: Duty Cycle Factor= $10 * \log[1/\text{Duty Cycle}(\%)*100]$, Duty Cycle= $T_{\text{on}}/T_{\text{period}} * 100\%$

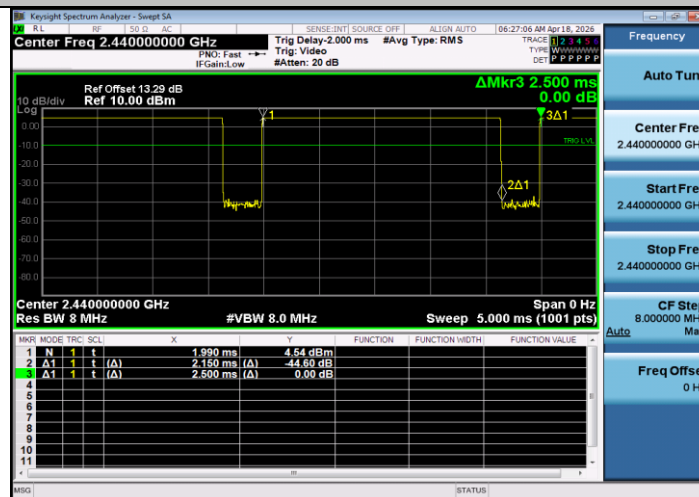


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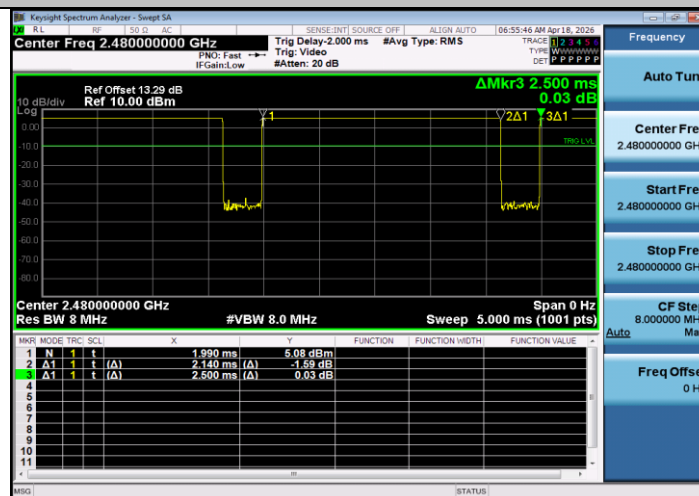
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

NO.	PRODUCT	BRAND/ Manufacturer	MODEL NO.
1	Adaptor	Somfy	DST151-301E
2	Battery	Somfy	9029224

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC Part 15, Subpart C (15.247)

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10:2020

All relaxed test items have been performed and recorded as per the above standard.

4 Test Procedure and Results

4.1 AC Power Conducted Emission

4.1.1 Limits

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 Test Procedures

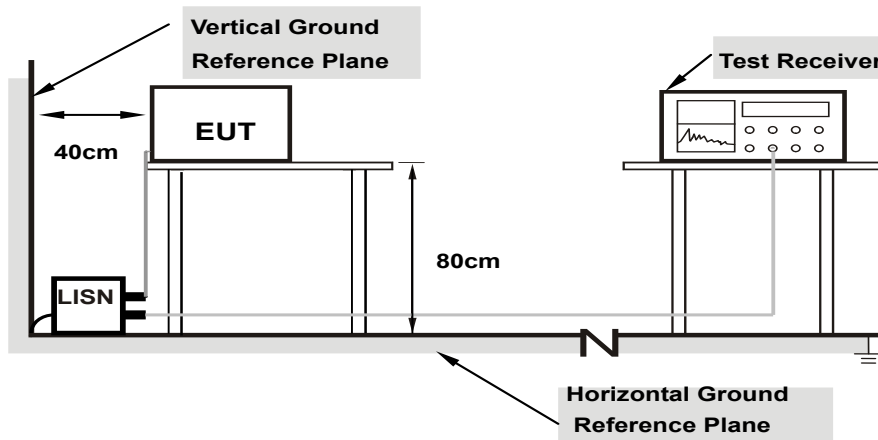
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.1.3 Deviation from Test Standard

No deviation.

4.1.4 Test Setup



Note: 1.Support units were connected to second LISN.

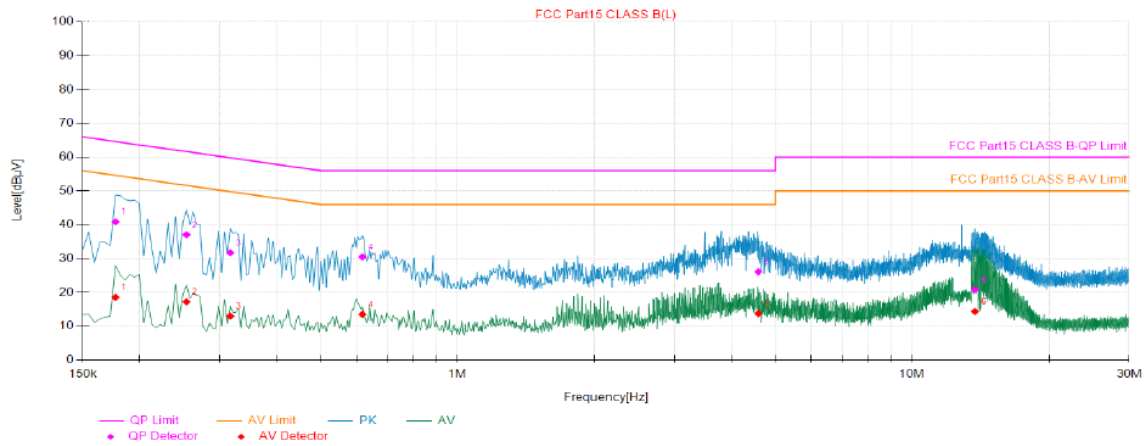
For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.5 EUT Operating Conditions

Same as 4.1.6.



4.1.6 Test Results



Final Data List

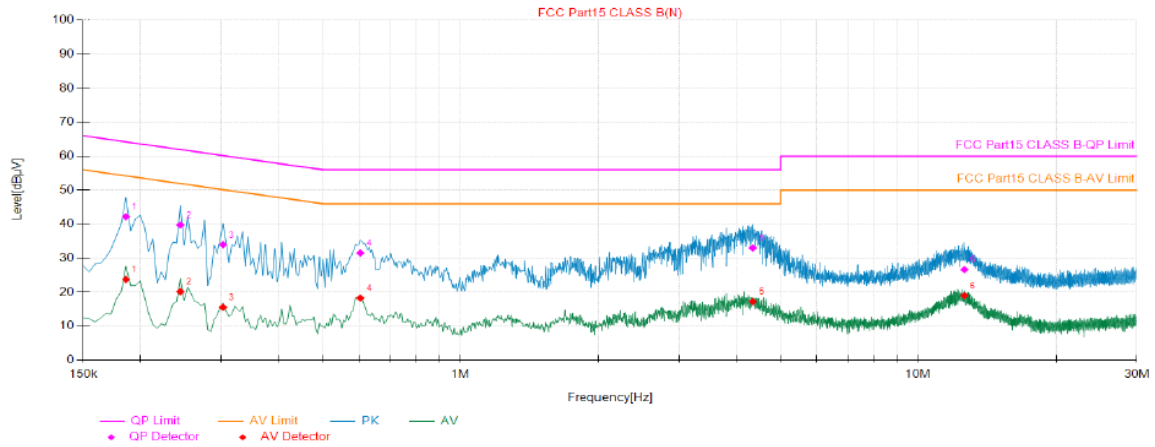
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.18	19.88	20.97	40.85	64.63	23.78	-1.32	18.56	54.63	36.07
2	0.25	19.74	17.30	37.04	61.64	24.60	-2.54	17.20	51.64	34.44
3	0.32	19.65	12.03	31.68	59.80	28.12	-6.68	12.97	49.80	36.83
4	0.62	19.62	10.85	30.47	56.00	25.53	-6.11	13.51	46.00	32.49
5	4.59	19.88	6.21	26.09	56.00	29.91	-6.13	13.75	46.00	32.25
6	13.74	20.08	0.81	20.89	60.00	39.11	-5.71	14.37	50.00	35.63

Remarks:1. Margin=Limit - Value, Value=Reading + Factor.

2. Factor=AMN Factor + Cable Loss.



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Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.19	19.85	22.32	42.17	64.21	22.04	3.89	23.74	54.21	30.47
2	0.24	19.78	19.97	39.75	61.94	22.19	0.37	20.15	51.94	31.79
3	0.30	19.72	14.20	33.92	60.16	26.24	-4.19	15.53	50.16	34.63
4	0.60	19.63	11.86	31.49	56.00	24.51	-1.36	18.27	46.00	27.73
5	4.35	19.82	13.15	32.97	56.00	23.03	-2.60	17.22	46.00	28.78
6	12.60	20.11	6.49	26.60	60.00	33.40	-1.13	18.98	50.00	31.02

Remarks:1. Margin=Limit - Value, Value=Reading + Factor.

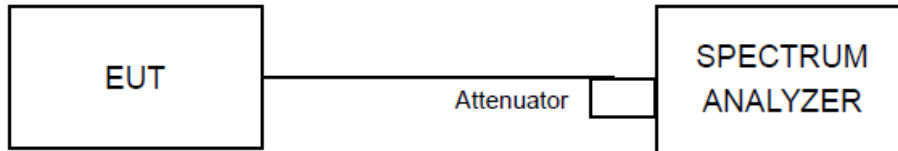
2. Factor=AMN Factor + Cable Loss.

4.2 Minimum 6dB Bandwidth

4.2.1 Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz

4.2.2 Test Setup



4.2.3 Test Procedures

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” for compliance to FCC 47CFR 15.247 requirements (clause 8.2).

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function.

4.2.4 Deviation of Test Standard

No deviation.

4.2.5 Test Results

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.660	2402.316	0.5	PASS
		2440	0.652	2439.664	2440.316	0.5	PASS
		2480	0.708	2479.628	2480.336	0.5	PASS

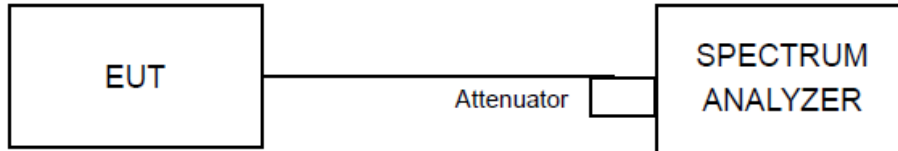


4.3 Conducted Output Power

4.3.1 Limit

For systems using digital modulation in the 2400 – 2483.5 MHz bands: 1 Watt (30 dBm)

4.3.2 Test Setup



4.3.3 Test Procedures

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” for compliance to FCC 47CFR 15.247 requirements (clause 9.2.2.4).

1. Set RBW $\geq$ DTS bandwidth
2. Set VBW $\geq$ 3 RBW.
3. Set Span $\geq$ 3 RBW.
4. Sweep time = No faster than coupled (auto) time.
5. Detector = peak
6. Trace mode = max hold.
7. Allow trace to fully stabilize
8. Use peak marker function to determine the peak amplitude level.

4.3.4 Deviation of Test Standard

No deviation.

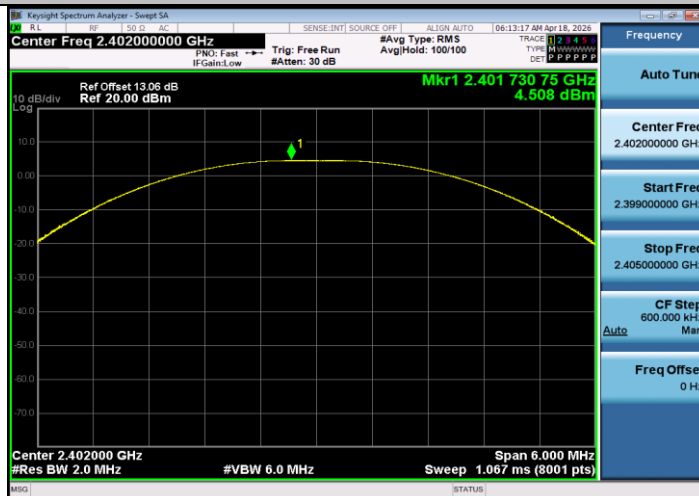
4.3.5 Test Results

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.51	≤30	5.51	≤36	PASS
		2440	4.86	≤30	5.86	≤36	PASS
		2480	5.29	≤30	6.29	≤36	PASS

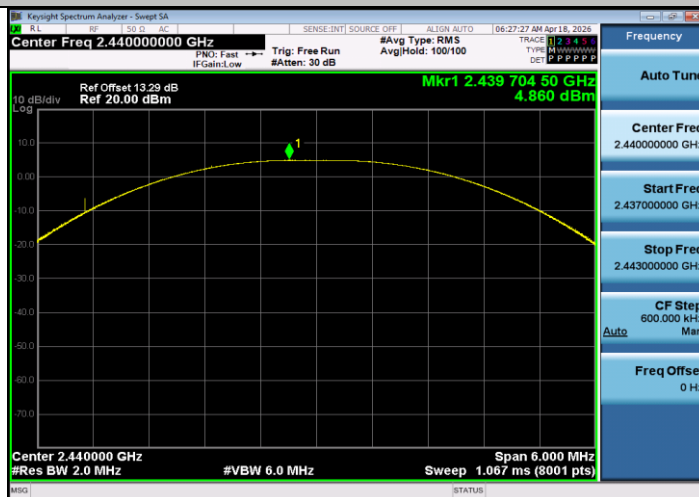


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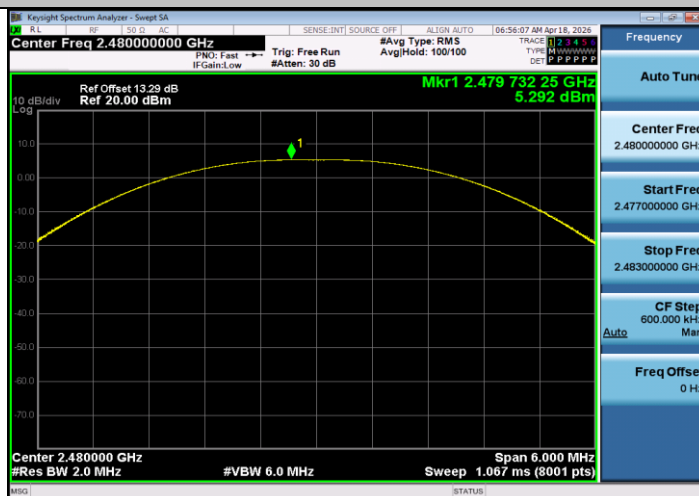
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

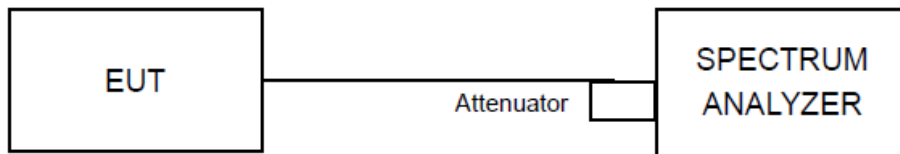


4.4 Power Spectral Density

4.4.1 Limit

The Maximum of Power Spectral Density Measurement is 8 dBm.

4.4.2 Test Setup



4.4.3 Test Procedures

The power output per FCC § 15.247(e) was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 10.5) for compliance to FCC 47CFR 15.247 requirements.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.4.4 Deviation of Test Standard

No deviation.

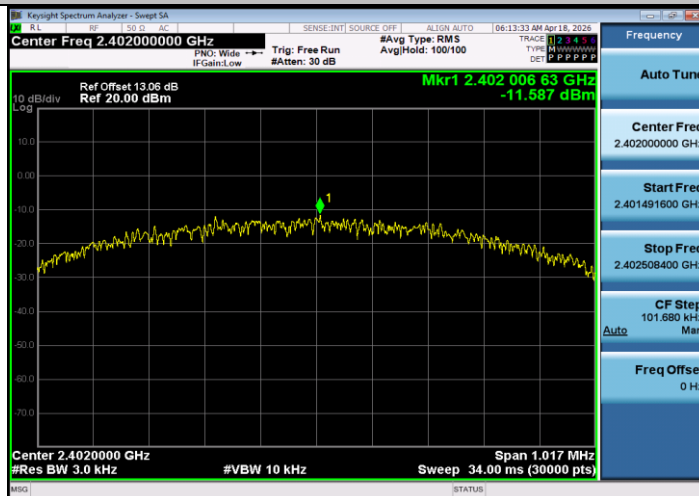
4.4.5 Test Results

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.59	≤8.00	PASS
		2440	-11.15	≤8.00	PASS
		2480	-10.81	≤8.00	PASS

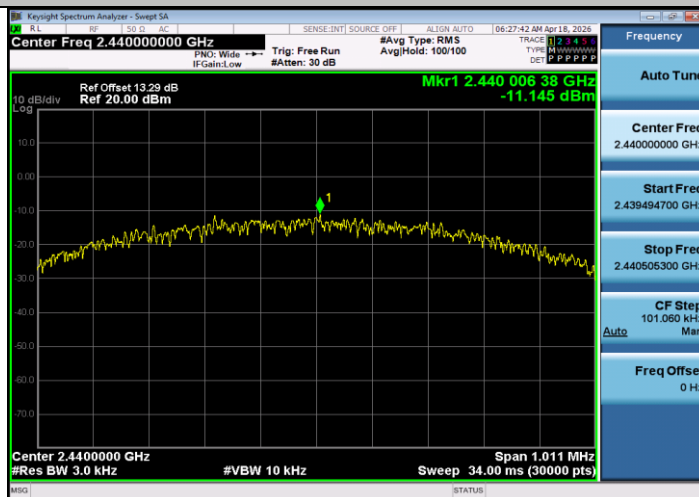


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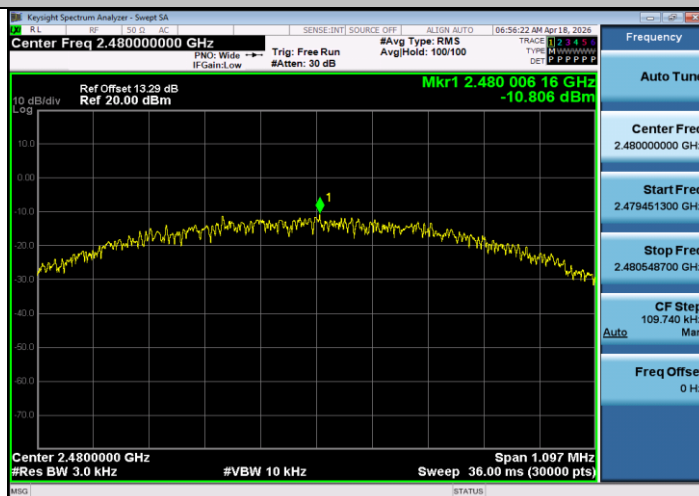
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

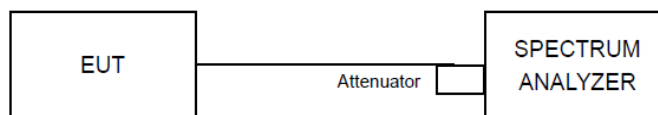


4.5 Conducted Band Edges Measurement

4.5.1 Limit

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.5.2 Test Setup



4.5.3 Test Procedures

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

MEASUREMENT PROCEDURE REF

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

MEASUREMENT PROCEDURE OOB

1. Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution. NOTE—the number of points can also be increased for large spans to retain frequency resolution
2. Set RBW = 100 kHz.
3. Set VBW $\geq [3 \times \text{RBW}]$
4. Detector = peak.
5. Sweep = No faster than coupled (auto) time.
6. Trace Mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

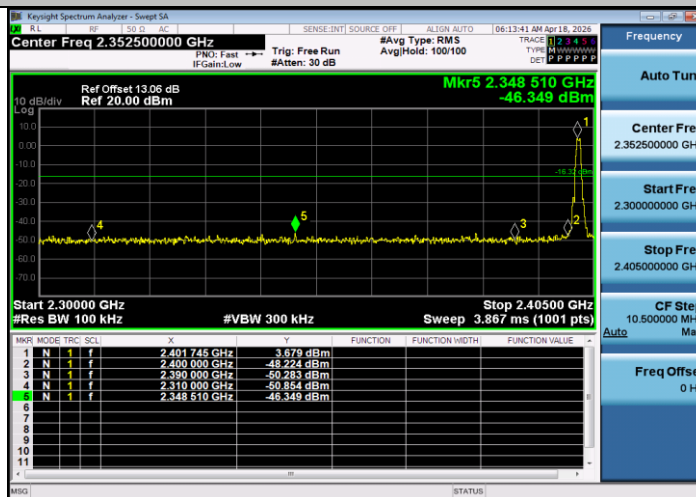
4.5.4 Deviation of Test Standard

No deviation.

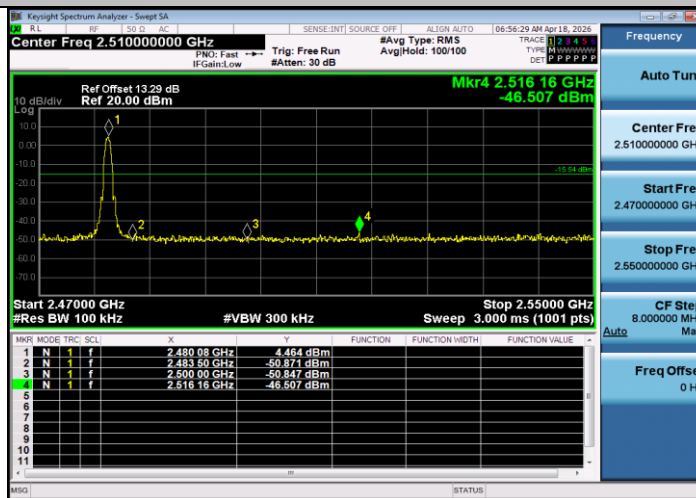
4.5.5 Test Results

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.68	-46.35	≤-16.32	PASS
		High	2480	4.46	-46.51	≤-15.54	PASS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

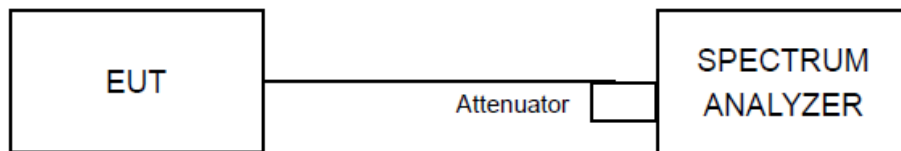


4.6 Conducted Spurious Emissions

4.6.1 Limit

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Procedures

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

MEASUREMENT PROCEDURE REF

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

MEASUREMENT PROCEDURE OOB

1. Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution.

2. Set RBW = 100 kHz.
3. Set VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep = No faster than coupled (auto) time.
6. Trace Mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

4.6.4 Deviation of Test Standard

No deviation.



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4.6.5 Test Results

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-59.45	≤ -16.79	PASS
			1000~26500	3.21	-41.62	≤ -16.79	PASS
		2440	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-58.47	≤ -16.84	PASS
			1000~26500	3.16	-41.58	≤ -16.84	PASS
		2480	Reference	4.13	4.13	---	PASS
			30~1000	4.13	-58.71	≤ -15.87	PASS
			1000~26500	4.13	-41.94	≤ -15.87	PASS

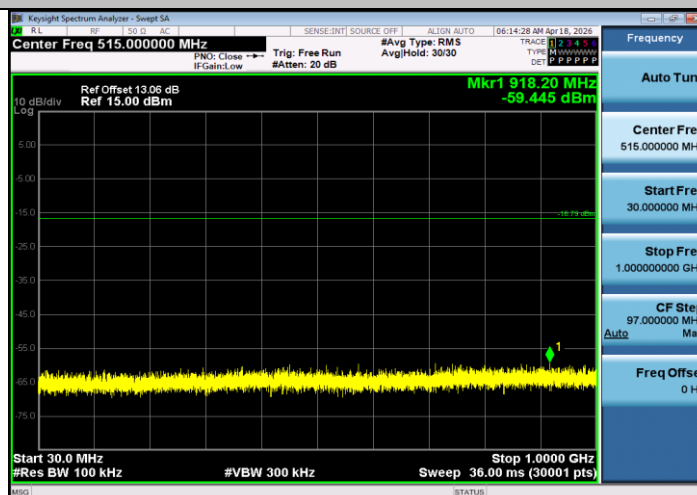


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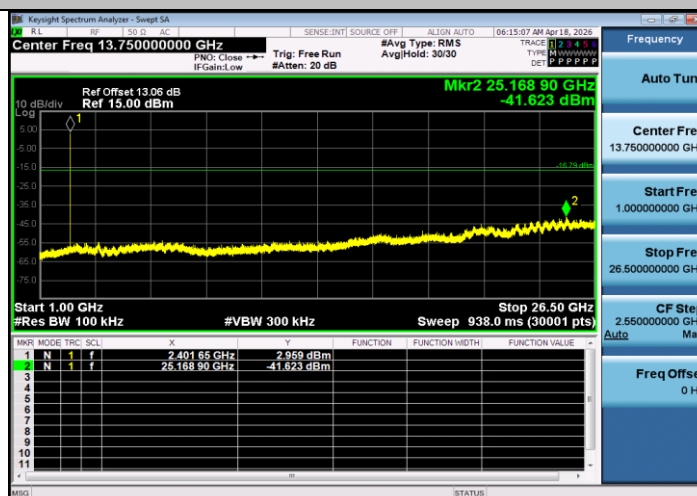
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



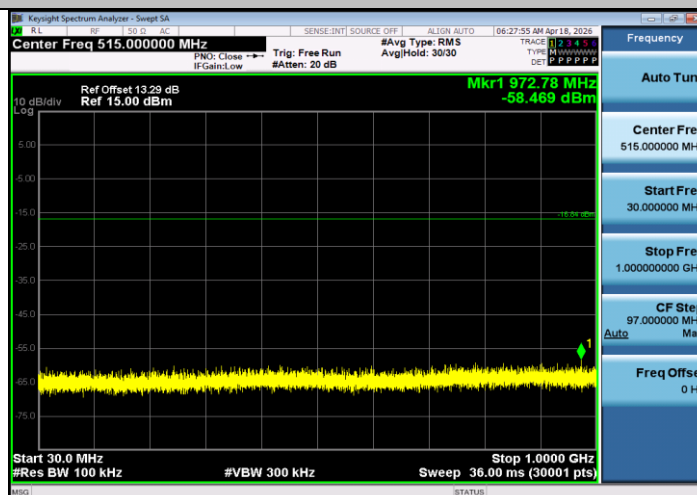


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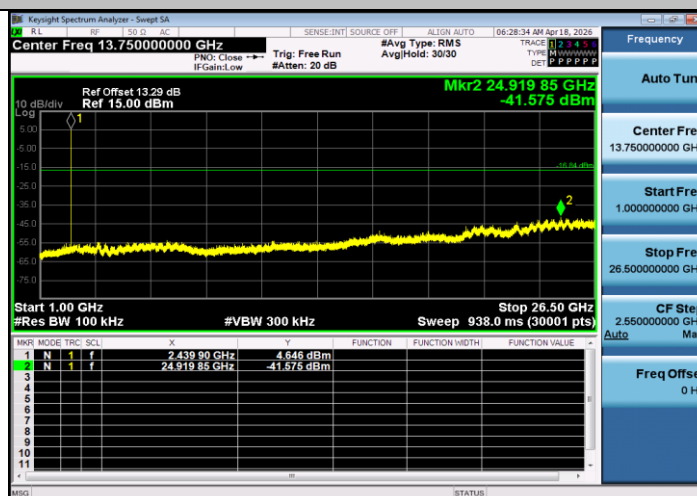
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



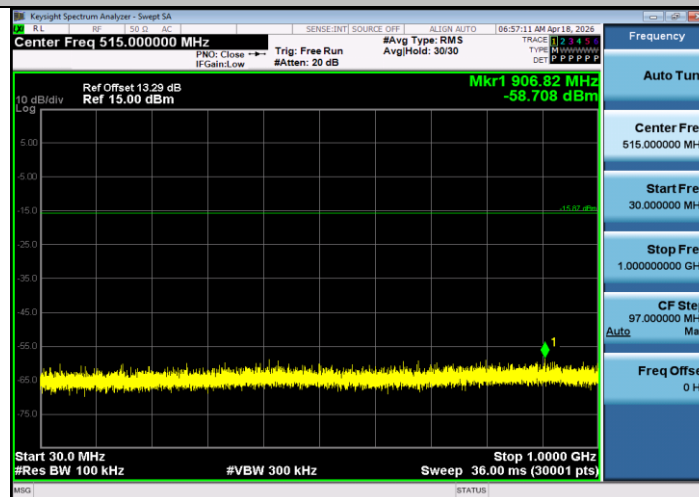


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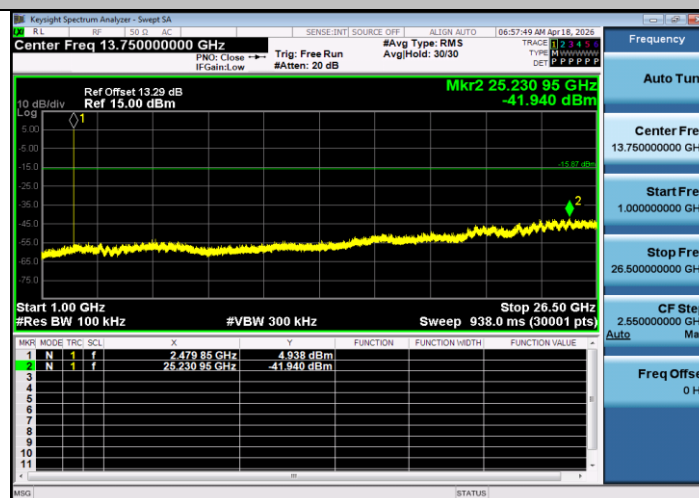
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



4.7 Emissions in restricted frequency bands

4.7.1 Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (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 - 156.525	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	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

4.7.2 Test Procedure Reference

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

4.7.3 Test Procedures

Peak Field Strength Measurements

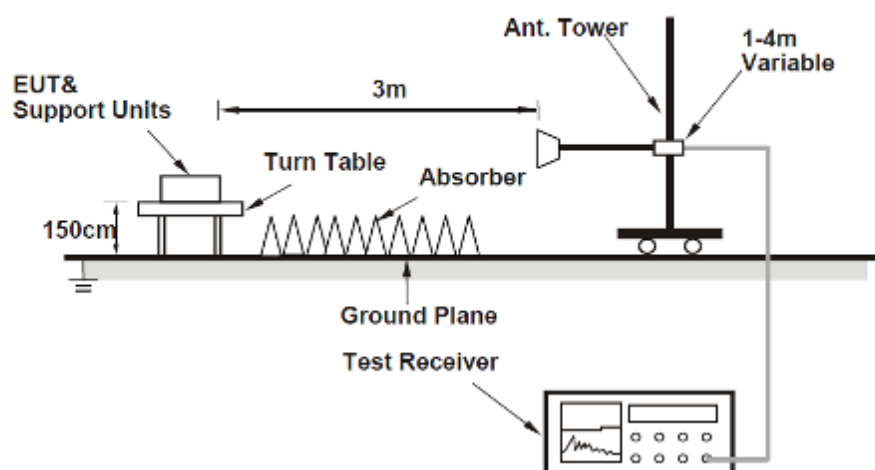
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = No faster than coupled (auto) time.
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq$ 3MHz
4. Detector = RMS (power averaging), Averaging Type= power (RMS)
5. Sweep time = No faster than coupled (auto) time.
6. Trace mode = max hold
7. Perform a trace average of at least 100 traces.
8. A correction factor $[10 \log (1 / D)]$ shall be added to the measurement results, where D is the duty cycle.

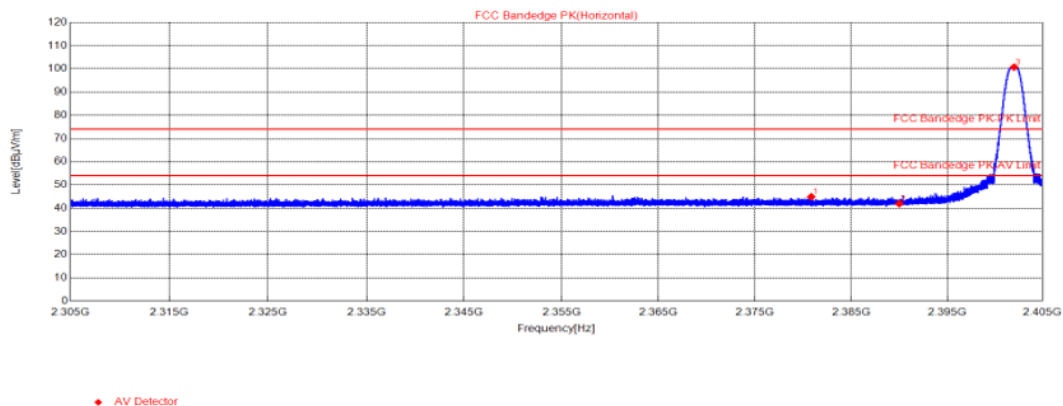
4.7.4 Test Setup

For Radiated emission above 1GHz



4.7.5 Test Results

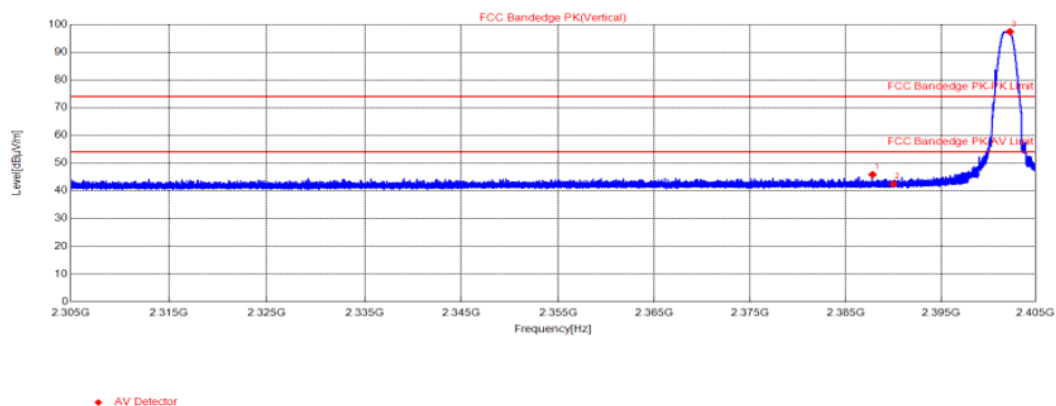
BLE_2402_Ant1/ Horizontal



Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2380.83	55.23	-10.34	44.89	74.00	29.11	PK	155	1	Horizontal
2	2390.00	52.22	-10.32	41.90	74.00	32.10	PK	155	113	Horizontal
3	2402.02	111.02	-10.31	100.71	74.00	-26.71	PK	155	228	Horizontal

BLE_2402_Ant1/ Vertical



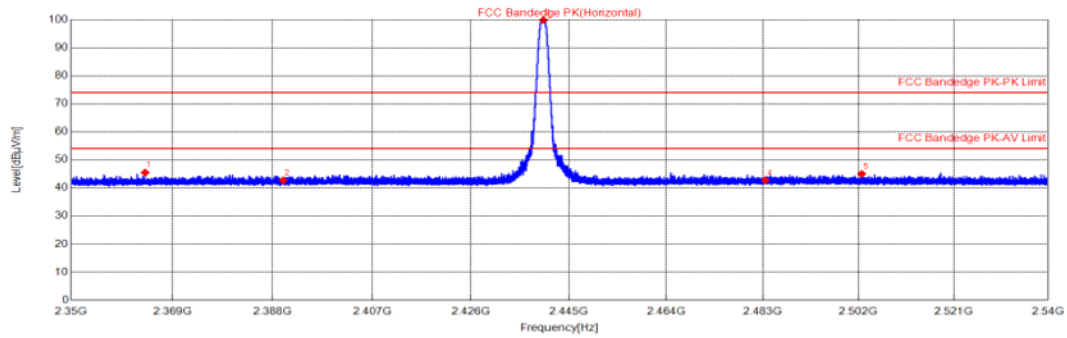
Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2387.81	56.15	-10.32	45.83	74.00	28.17	PK	155	233	Vertical
2	2390.00	52.75	-10.32	42.43	74.00	31.57	PK	155	358	Vertical
3	2402.29	107.70	-10.31	97.39	74.00	-23.39	PK	155	182	Vertical



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BLE_2440_Ant1/ Horizontal

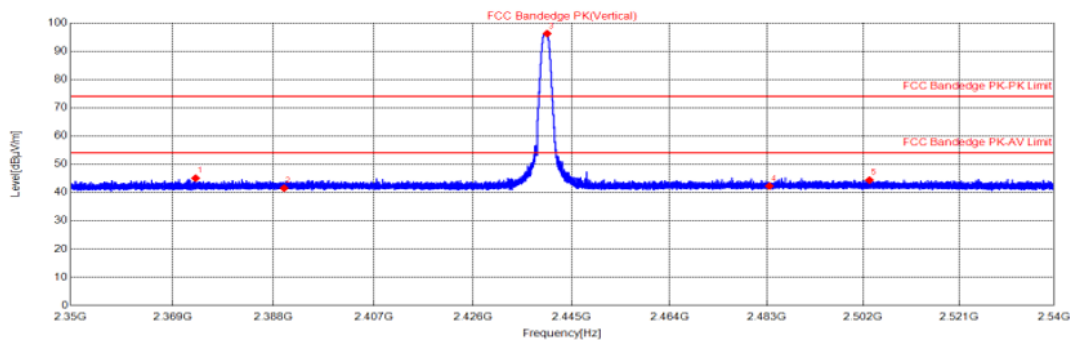


• AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2363.86	55.82	-10.36	45.46	74.00	28.54	PK	155	131	Horizontal
2	2390.00	52.97	-10.32	42.65	74.00	31.35	PK	155	50	Horizontal
3	2440.01	110.26	-10.45	99.81	74.00	-25.81	PK	155	233	Horizontal
4	2483.50	53.31	-10.61	42.70	74.00	31.30	PK	155	265	Horizontal
5	2502.64	55.60	-10.63	44.97	74.00	29.03	PK	155	69	Horizontal

BLE_2440_Ant1/ Vertical



• AV Detector

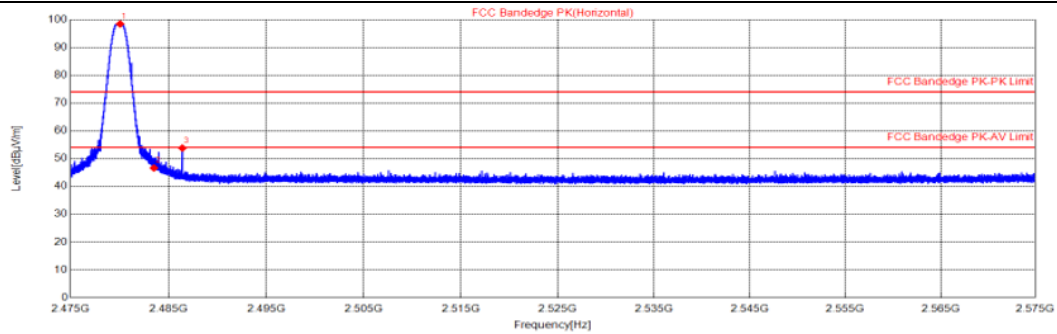
Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2373.34	55.38	-10.35	45.03	74.00	28.97	PK	155	133	Vertical
2	2390.00	51.82	-10.32	41.50	74.00	32.50	PK	155	203	Vertical
3	2440.24	106.67	-10.45	96.22	74.00	-22.22	PK	155	235	Vertical
4	2483.50	52.86	-10.61	42.25	74.00	31.75	PK	155	177	Vertical
5	2503.23	54.97	-10.63	44.34	74.00	29.66	PK	155	96	Vertical



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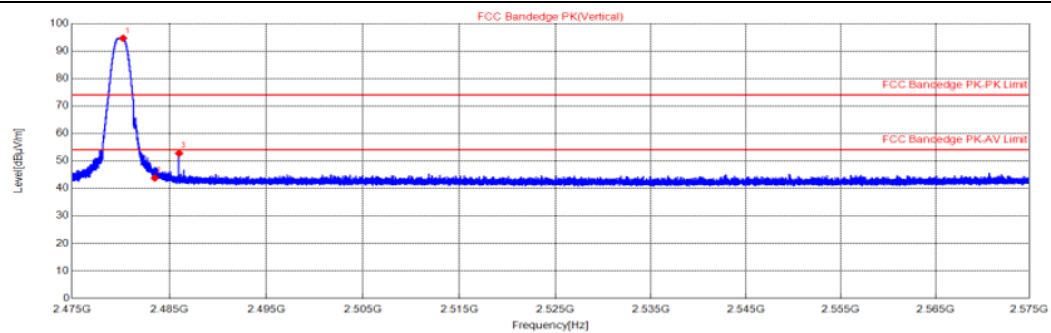
BLE_2480_Ant1/ Horizontal



Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2480.06	109.04	-10.60	98.44	74.00	-24.44	PK	155	235	Horizontal
2	2483.50	57.21	-10.61	46.60	74.00	25.58	PK	155	228	Horizontal
3	2486.41	64.40	-10.62	53.78	74.00	20.22	PK	155	267	Horizontal

BLE_2480Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2480.24	105.22	-10.60	94.62	74.00	-20.62	PK	155	324	Vertical
2	2483.50	54.36	-10.61	43.75	74.00	30.25	PK	155	43	Vertical
3	2485.99	63.34	-10.61	52.73	74.00	21.27	PK	155	241	Vertical

4.8 Radiated Emission Measurement

4.8.1 Limits

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

4.8.2 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degree to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotate table was turned from 0 degree to 360 degree to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

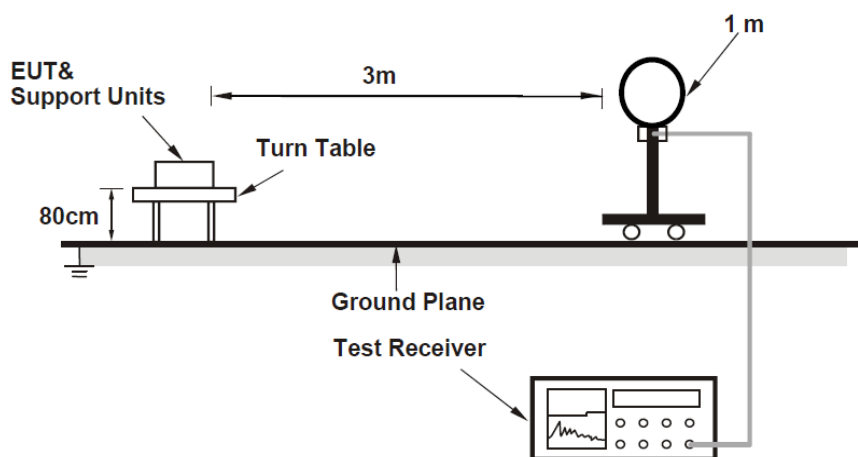
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz & 360 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1/T for RMS Average (Duty cycle < 98 %) for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq$ 98 %) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.8.3 Deviation from Test Standard

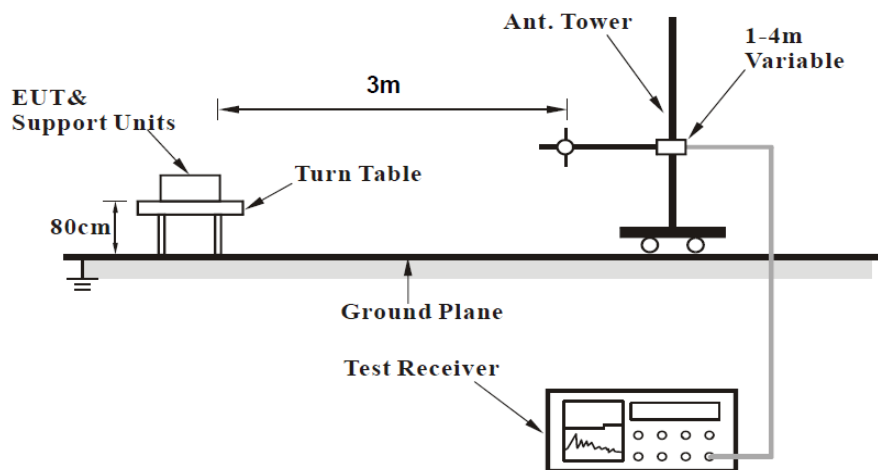
No deviation.

4.8.4 Test Setup

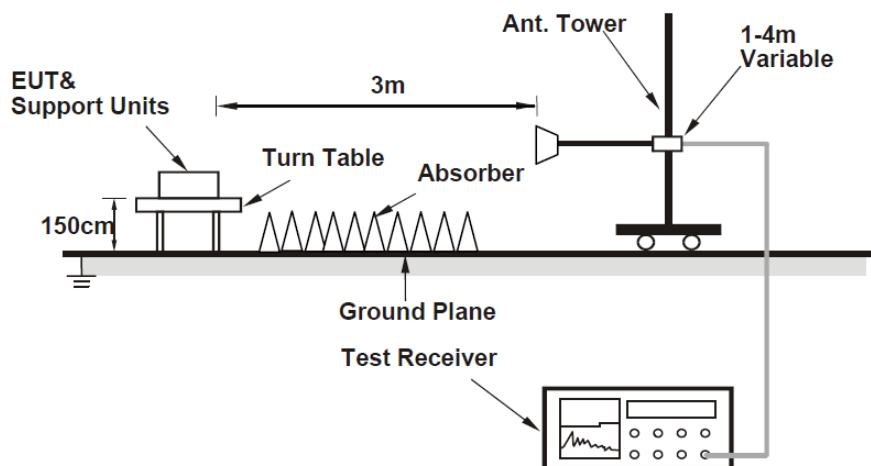
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.8.6 Test Results

Radiated Emissions Range 9kHz~30MHz & 18GHz~25GHz

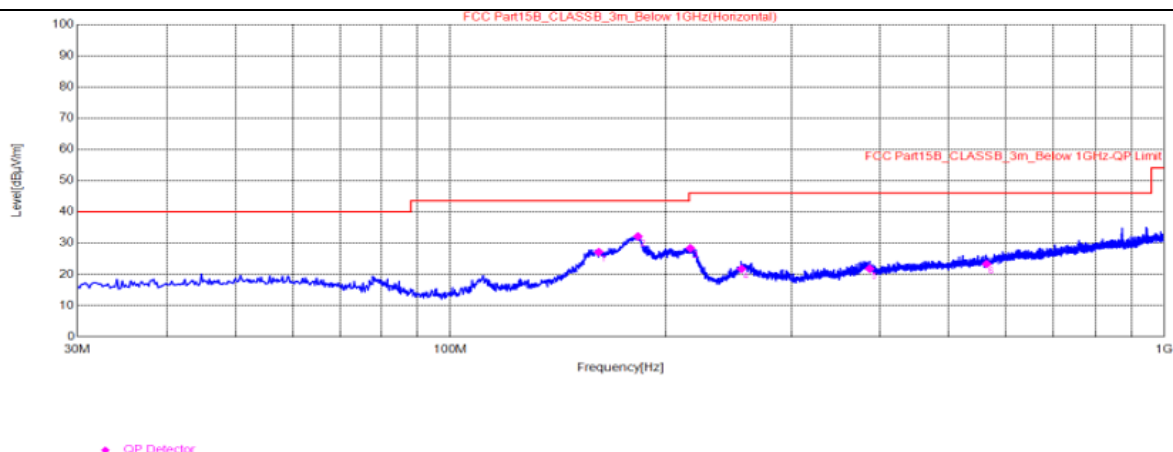
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Radiated Emissions Range 30MHz~1GHz

Below is the worst test data

Channel	BLE_2402_Ant1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Horizontal

Test Plot:



Final Data List

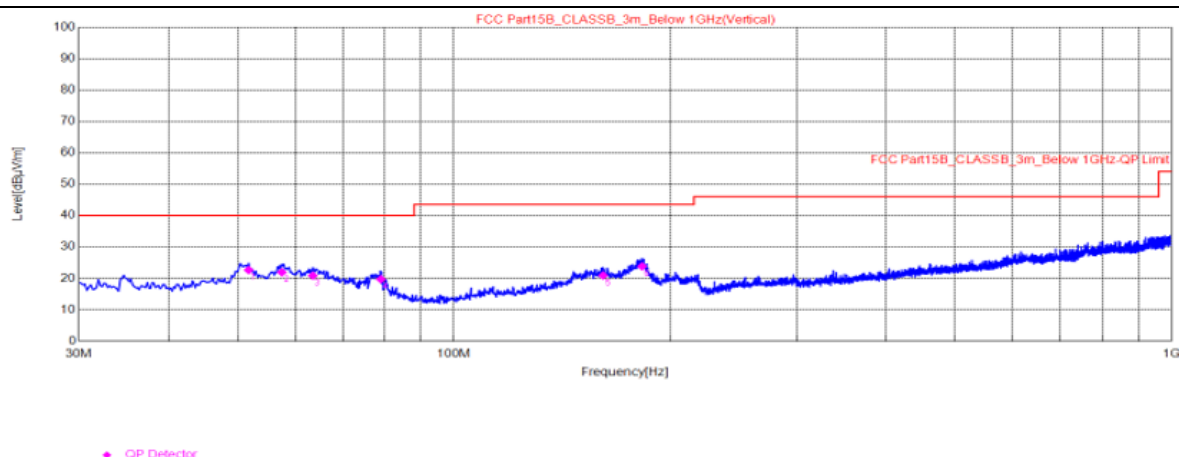
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Value [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	161.34	37.44	-10.32	27.12	43.50	16.38	QP	125	169	Horizontal
2	183.07	43.79	-11.67	32.12	43.50	11.38	QP	134	169	Horizontal
3	216.82	41.25	-12.91	28.34	46.00	17.66	QP	112	203	Horizontal
4	255.82	32.23	-10.51	21.72	46.00	24.28	QP	115	198	Horizontal
5	386.77	28.77	-6.99	21.78	46.00	24.22	QP	134	188	Horizontal
6	564.08	27.06	-3.78	23.28	46.00	22.72	QP	150	104	Horizontal

REMARKS:

- Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission Level

Channel	BLE_2402_Ant1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Vertical

Test Plot:



Final Data List

NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Value [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	51.73	33.31	-10.68	22.63	40.00	17.37	QP	125	70	Vertical
2	57.55	32.72	-10.80	21.92	40.00	18.08	QP	136	0	Vertical
3	63.56	32.15	-11.31	20.84	40.00	19.16	QP	150	360	Vertical
4	79.08	34.08	-14.38	19.70	40.00	20.30	QP	127	46	Vertical
5	161.34	31.22	-10.32	20.90	43.50	22.60	QP	149	92	Vertical
6	182.87	35.44	-11.65	23.79	43.50	19.71	QP	132	46	Vertical

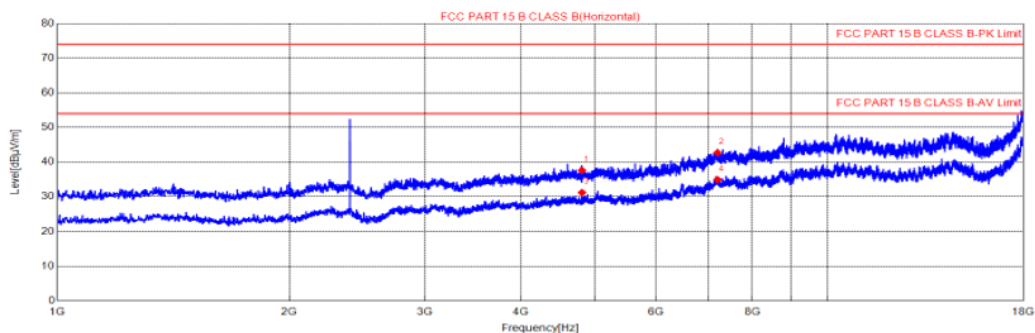
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

Radiated Emission Range 1GHz~10th Harmonic

Below is the worst test data

Channel	BLE_2402_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



● PK Detector ● AV Detector

Suspected List										
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4804.60	40.55	-2.95	37.60	74.00	36.40	PK	100	123	Horizontal
2	7206.70	38.62	4.07	42.69	74.00	31.31	PK	100	109	Horizontal
3	4804.60	34.17	-2.95	31.22	54.00	22.78	AV	100	123	Horizontal
4	7206.70	30.85	4.07	34.92	54.00	19.08	AV	100	226	Horizontal

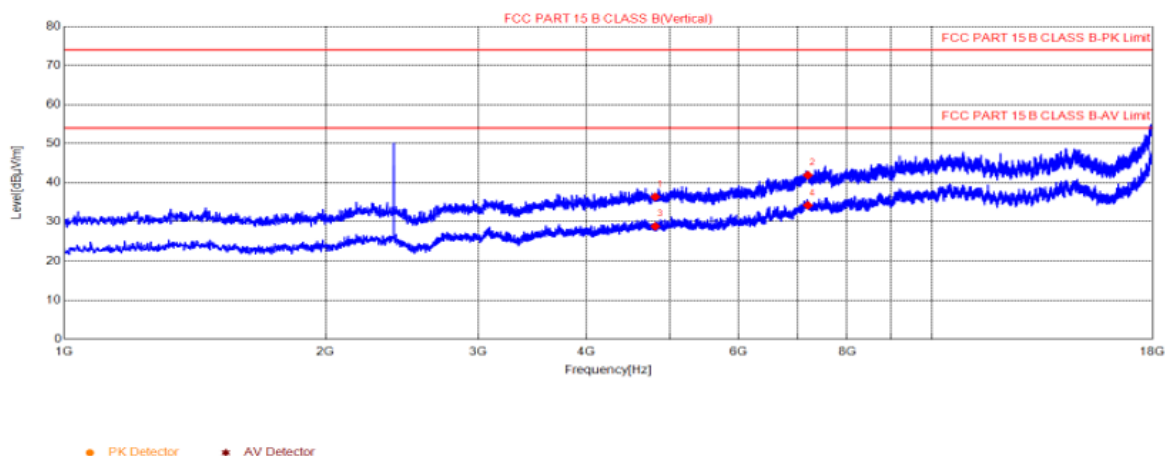
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



L C I E

Channel	BLE_2402_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4804.60	39.32	-2.95	36.37	74.00	37.63	PK	100	192	Vertical
2	7206.70	37.85	4.07	41.92	74.00	32.08	PK	100	162	Vertical
3	4804.60	31.78	-2.95	28.83	54.00	25.17	AV	100	192	Vertical
4	7206.70	30.14	4.07	34.21	54.00	19.79	AV	100	140	Vertical

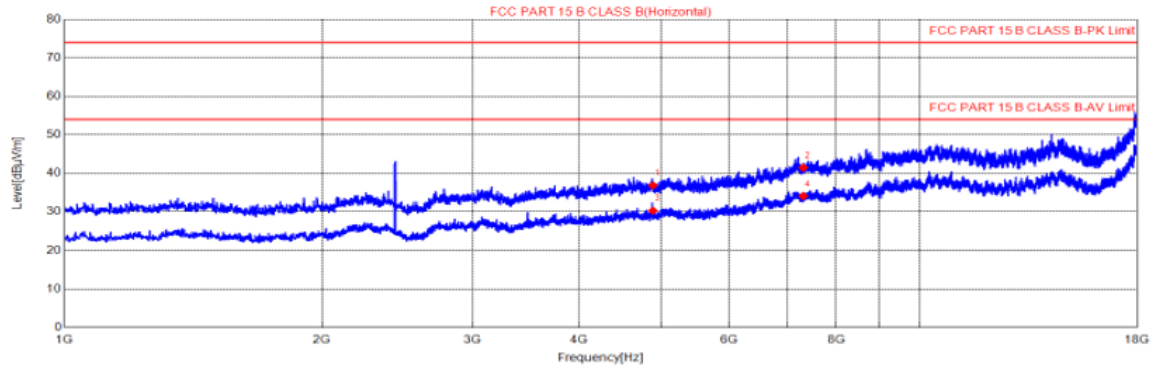
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



L C I E

Channel	BLE_2440_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



● PK Detector ★ AV Detector

Suspected List										
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4881.10	39.58	-2.74	36.84	74.00	37.16	PK	100	272	Horizontal
2	7320.60	37.89	3.55	41.44	74.00	32.56	PK	100	243	Horizontal
3	4881.10	33.03	-2.74	30.29	54.00	23.71	AV	100	222	Horizontal
4	7320.60	30.52	3.55	34.07	54.00	19.93	AV	100	110	Horizontal

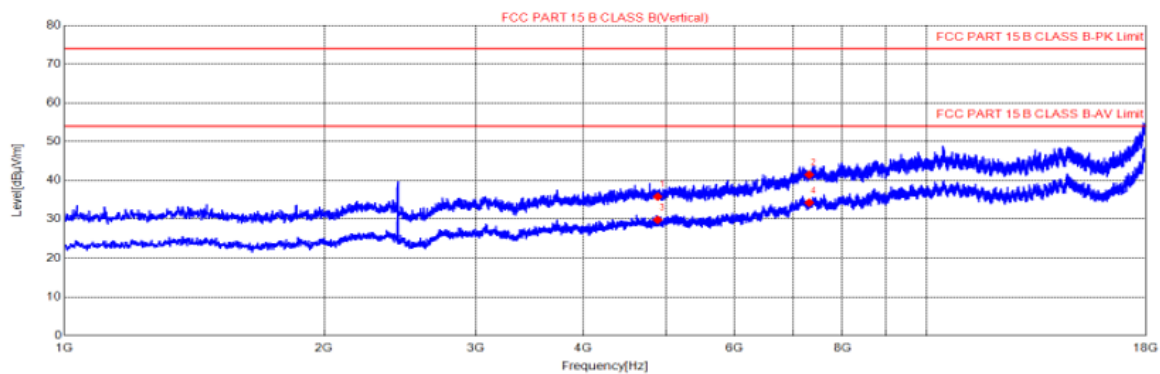
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



L C I E

Channel	BLE_2440_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



● PK Detector ★ AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4881.10	38.54	-2.74	35.80	74.00	38.20	PK	100	198	Vertical
2	7320.60	37.92	3.55	41.47	74.00	32.53	PK	100	243	Vertical
3	4881.10	32.57	-2.74	29.83	54.00	24.17	AV	100	243	Vertical
4	7320.60	30.71	3.55	34.26	54.00	19.74	AV	100	258	Vertical

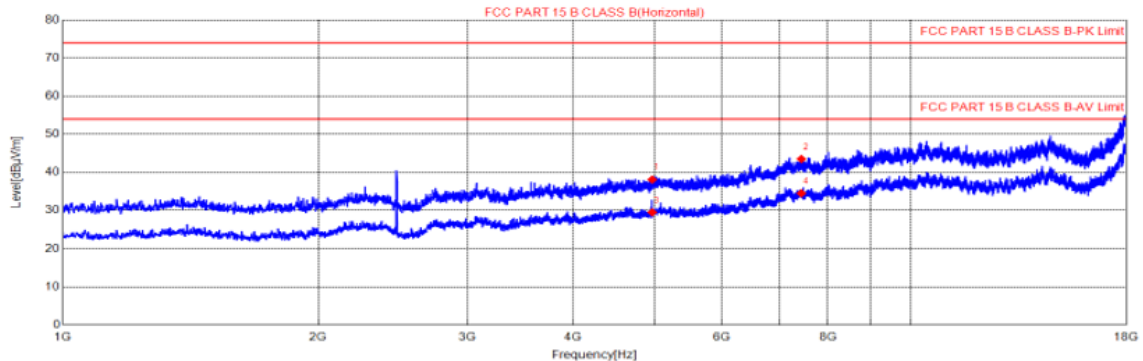
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



L C I E

Channel	BLE_2480_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



● PK Detector ★ AV Detector

Suspected List										
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4961.00	40.61	-2.51	38.10	74.00	35.90	PK	100	248	Horizontal
2	7441.30	39.35	4.14	43.49	74.00	30.51	PK	100	338	Horizontal
3	4961.00	32.03	-2.51	29.52	54.00	24.48	AV	100	109	Horizontal
4	7441.30	30.36	4.14	34.50	54.00	19.50	AV	100	123	Horizontal

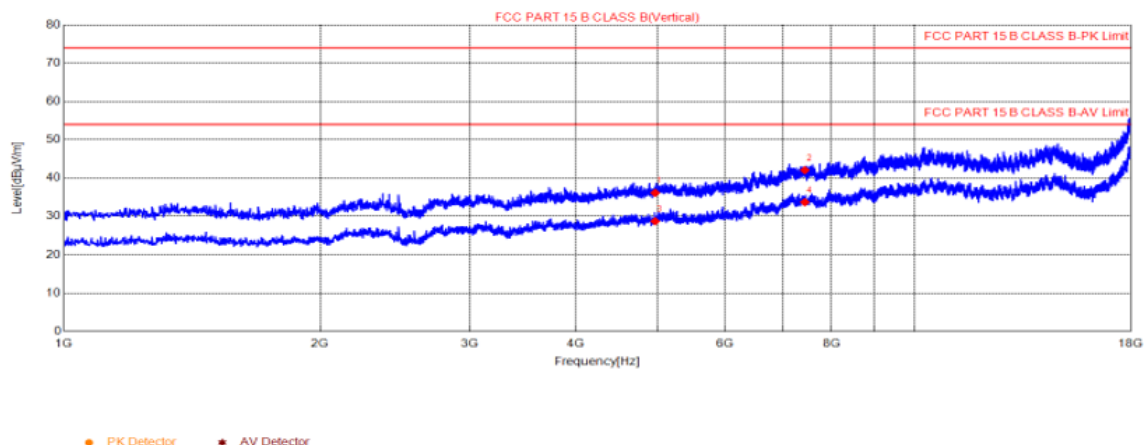
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



L C I E

Channel	BLE_2480_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	4961.00	38.63	-2.51	36.12	74.00	37.88	PK	100	280	Vertical
2	7441.30	37.91	4.14	42.05	74.00	31.95	PK	100	236	Vertical
3	4961.00	31.23	-2.51	28.72	54.00	25.28	AV	100	310	Vertical
4	7441.30	29.56	4.14	33.70	54.00	20.30	AV	100	236	Vertical

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

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