



Report No.: TW2510039-02E

Applicant: BTX Holdings Inc

Product: BTX Smart Link Pro

Model No.: 404.9270, SmartLink Pro

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang



Terry Tang

Manager

Dated: October 30, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: BTX Holdings Inc
Address: 10763 Sanden Drive, Dallas, Tx 75238, USA

1.3 Description of EUT

Product: BTX Smart Link Pro
Manufacturer: Sunpery (Nanjing) Co., Ltd
Address: 88 Xingda Road, Dachang Street, Jiangbei New District, Nanjing 210048, P.R. China
Trademark: N/A
Additional Trademark: N/A
Model Number: 404.9270
Additional Model Number: SmartLink Pro
Hardware Version: V1.0
Software Version: V1.2
Serial No.: N/A
Type of Modulation: GFSK
Frequency range: 2402-2480MHz (Bluetooth Low Energy)
Channel Separation: 2MHz
Channel Number: 40MHz
Rating: DC3.3V
Antenna Designation: PCB antenna with gain -0.61dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 4 Samples

1.5 Test Duration

2025-10-20 to 2025-10-30

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

Andy Xing



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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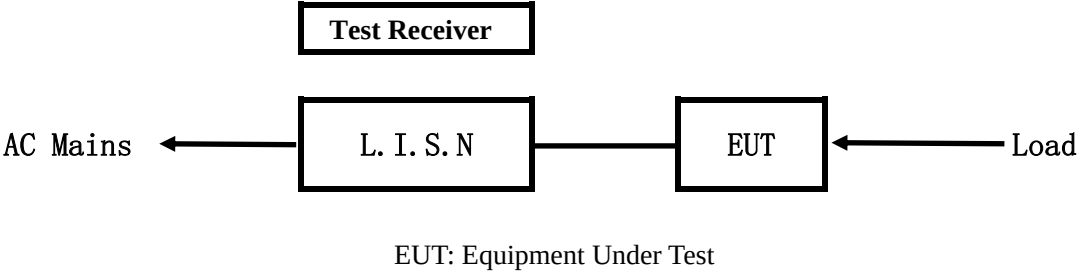
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

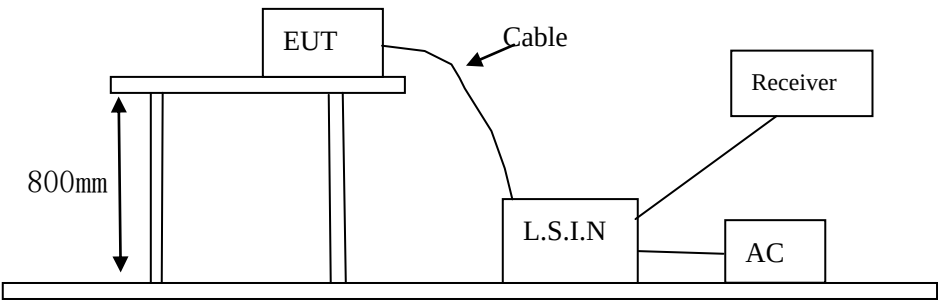


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor.1-2023.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor.1-2023. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
BTX Smart Link Pro	Sunpery (Nanjing) Co., Ltd	404.9270, SmartLink Pro	UGP-4049270

B. Internal Device

Device	Manufacturer	Model	Rating

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor.1-2023.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

Pass

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

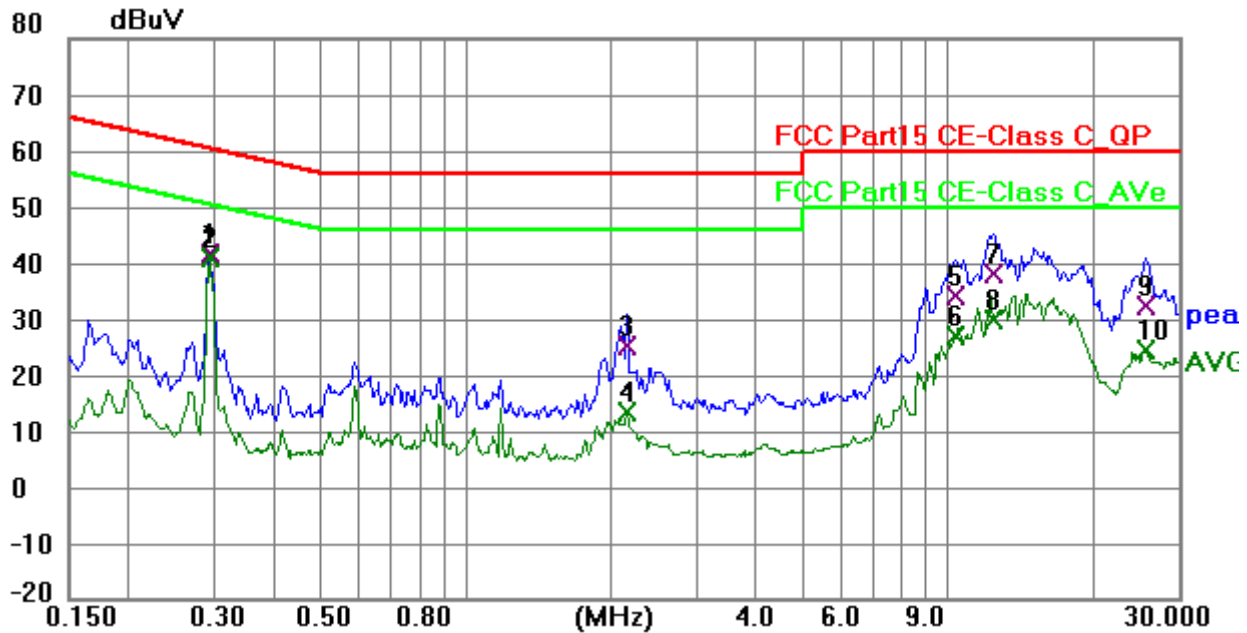
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2943	31.40	10.20	41.60	60.40	-18.80	QP	P
2	0.2943	30.53	10.20	40.73	50.40	-9.67	AVG	P
3	2.1507	14.99	10.20	25.19	56.00	-30.81	QP	P
4	2.1507	3.10	10.20	13.30	46.00	-32.70	AVG	P
5	10.3320	23.83	10.37	34.20	60.00	-25.80	QP	P
6	10.3320	16.64	10.37	27.01	50.00	-22.99	AVG	P
7	12.4184	27.75	10.40	38.15	60.00	-21.85	QP	P
8	12.4184	19.54	10.40	29.94	50.00	-20.06	AVG	P
9	25.7994	21.73	10.44	32.17	60.00	-27.83	QP	P
10	25.7994	13.94	10.44	24.38	50.00	-25.62	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

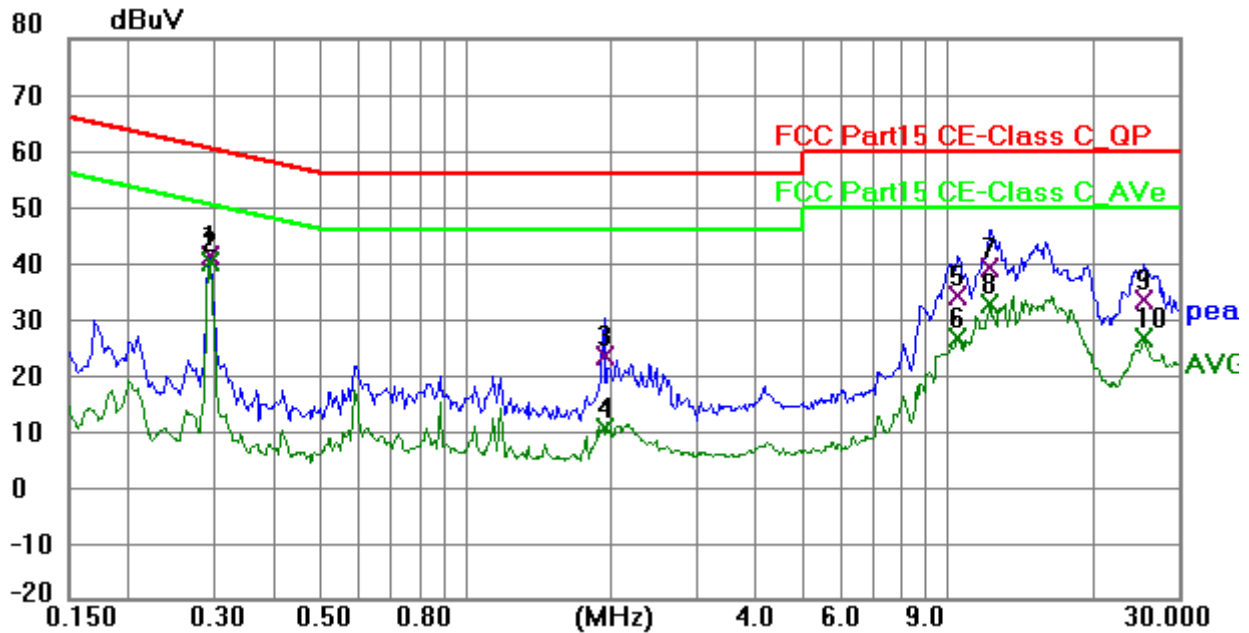
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2943	30.99	10.20	41.19	60.40	-19.21	QP	P
2	0.2943	30.14	10.20	40.34	50.40	-10.06	AVG	P
3	1.9323	13.04	10.19	23.23	56.00	-32.77	QP	P
4	1.9323	0.27	10.19	10.46	46.00	-35.54	AVG	P
5	10.4256	23.74	10.37	34.11	60.00	-25.89	QP	P
6	10.4256	16.09	10.37	26.46	50.00	-23.54	AVG	P
7	12.2508	28.69	10.39	39.08	60.00	-20.92	QP	P
8	12.2508	22.25	10.39	32.64	50.00	-17.36	AVG	P
9	25.5303	22.97	10.44	33.41	60.00	-26.59	QP	P
10	25.5303	16.02	10.44	26.46	50.00	-23.54	AVG	P

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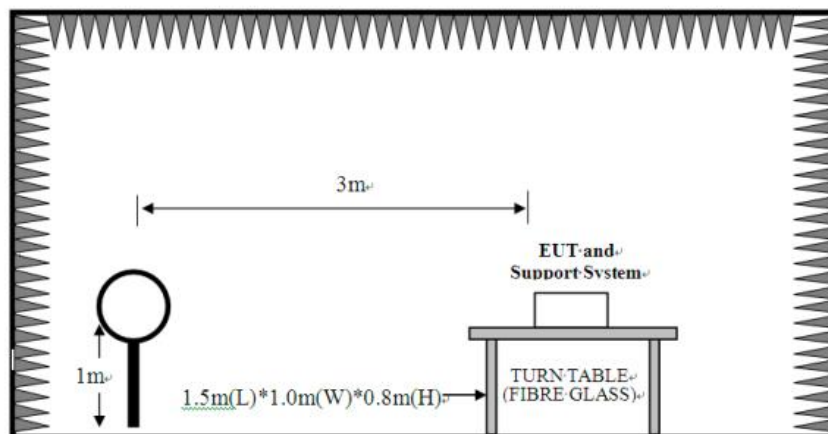
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor.1-2023.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



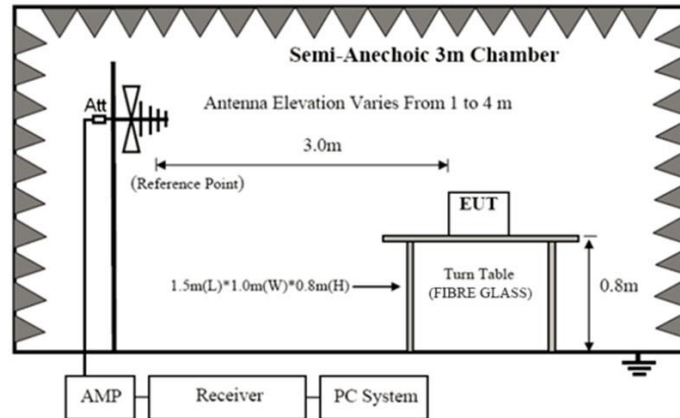
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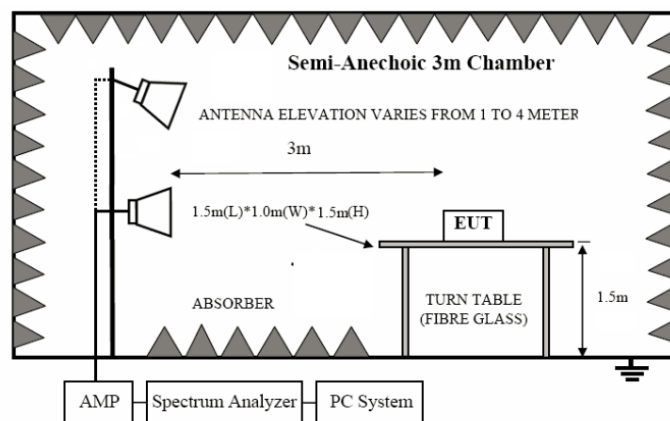
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
- 1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 - 2. In the Above Table, the higher limit applies at the band edges.
 - 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 - 4. BLE-1M and 2M were tested. In the test report, only the worst case was recorded and BLE-1M was the worst case

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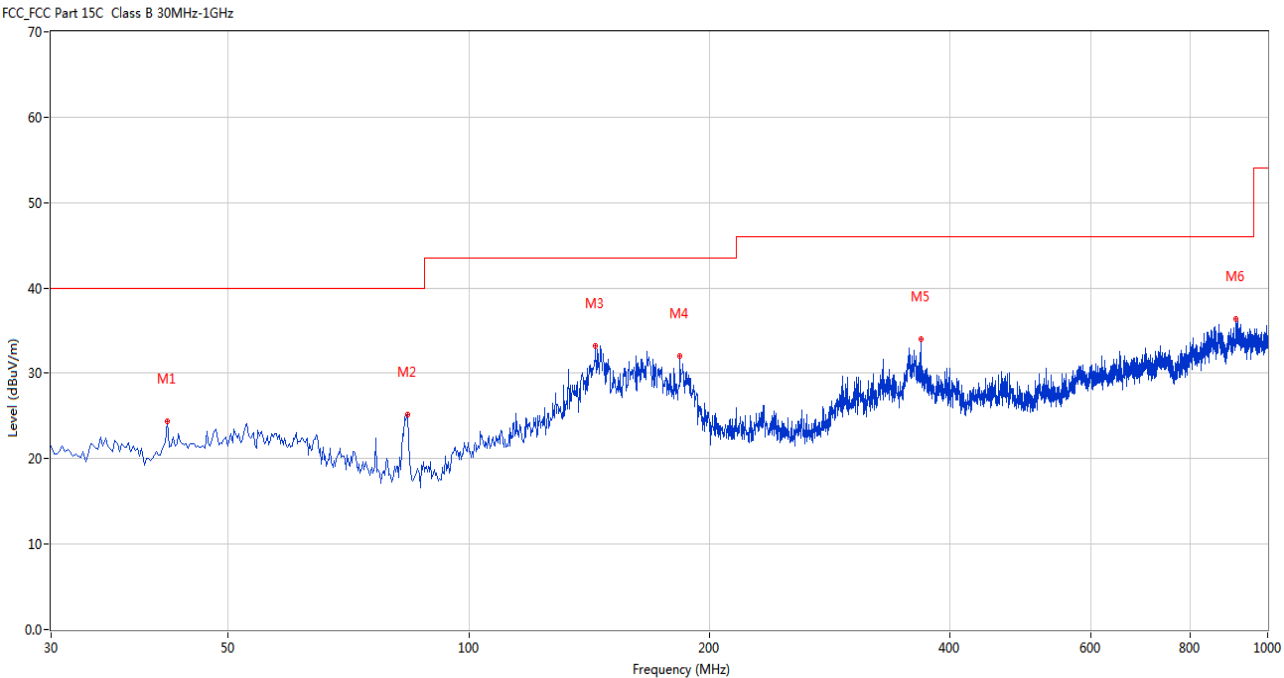
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.880	24.35	-9.02	40.0	15.65	Peak	71.00	100	Horizontal	Pass
2	83.822	25.20	-12.91	40.0	14.80	Peak	163.00	100	Horizontal	Pass
3	144.189	33.18	-12.93	43.5	10.32	Peak	306.00	100	Horizontal	Pass
4	183.707	31.98	-10.79	43.5	11.52	Peak	301.00	100	Horizontal	Pass
5	367.961	34.05	-4.96	46.0	11.95	Peak	341.00	100	Horizontal	Pass
6	913.207	36.36	2.74	46.0	9.64	Peak	210.00	100	Horizontal	Pass

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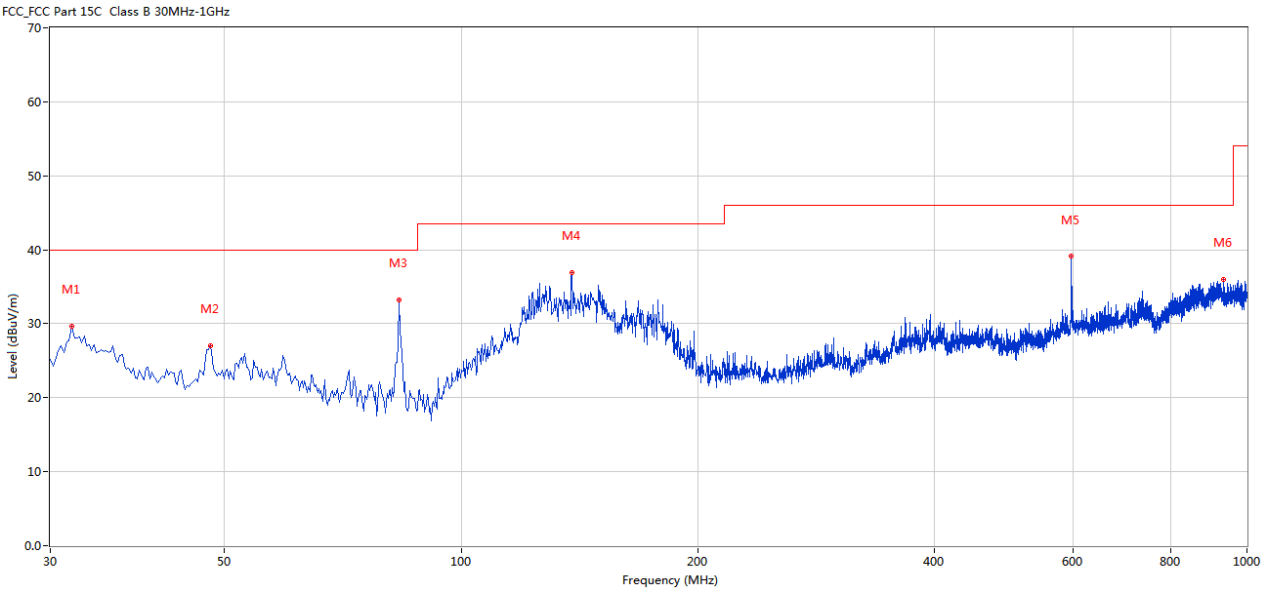
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.940	29.65	-10.74	40.0	10.35	Peak	76.00	100	Vertical	Pass
2	47.941	27.07	-8.84	40.0	12.93	Peak	320.00	100	Vertical	Pass
3	83.337	33.18	-12.82	40.0	6.82	Peak	82.00	100	Vertical	Pass
4	138.370	36.90	-13.33	43.5	6.60	Peak	195.00	100	Vertical	Pass
5	597.308	39.09	-2.01	46.0	6.91	Peak	340.00	100	Vertical	Pass
6	933.087	36.03	2.25	46.0	9.97	Peak	327.00	100	Vertical	Pass

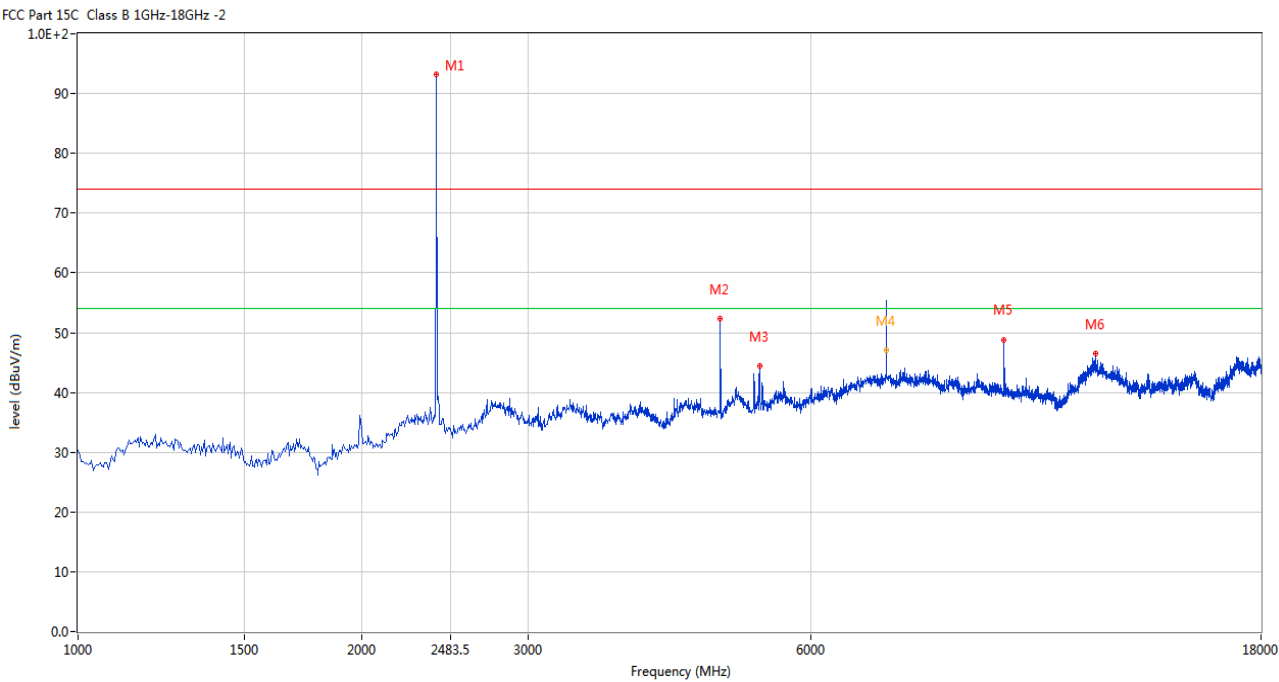
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.14	-3.57	74.0	19.14	Peak	177.00	100	Horizontal	N/A
2	4803.750	52.28	3.13	74.0	-21.72	Peak	174.00	100	Horizontal	Pass
3	5284.000	44.53	3.51	74.0	-29.47	Peak	359.00	100	Horizontal	Pass
4	7205.000	55.31	8.08	74.0	-18.69	Peak	192.00	100	Horizontal	Pass
4**	7205.000	47.07	8.08	54.0	-6.93	AV	192.00	100	Horizontal	Pass
5	9606.250	48.83	7.29	74.0	-25.17	Peak	42.00	100	Horizontal	Pass
6	12011.750	46.49	10.98	74.0	-27.51	Peak	352.00	100	Horizontal	Pass

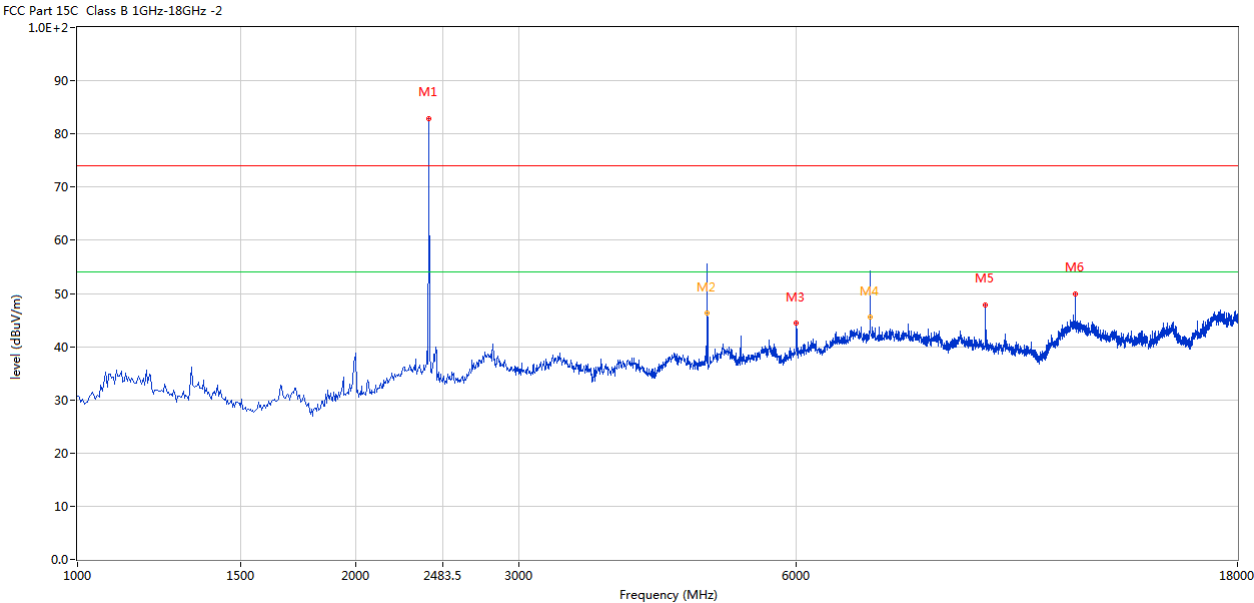
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	82.90	-3.57	74.0	8.90	Peak	341.00	100	Vertical	N/A
2	4803.750	55.50	3.13	74.0	-18.50	Peak	114.00	100	Vertical	Pass
2**	4803.750	46.35	3.13	54.0	-7.65	AV	114.00	100	Vertical	Pass
3	5998.000	44.43	3.78	74.0	-29.57	Peak	21.00	100	Vertical	Pass
4	7205.000	54.22	8.08	74.0	-19.78	Peak	212.00	100	Vertical	Pass
4**	7205.000	45.65	8.08	54.0	-8.35	AV	212.00	100	Vertical	Pass
5	9606.250	47.81	7.29	74.0	-26.19	Peak	244.00	100	Vertical	Pass
6	12011.750	49.99	10.98	74.0	-24.01	Peak	14.00	100	Vertical	Pass

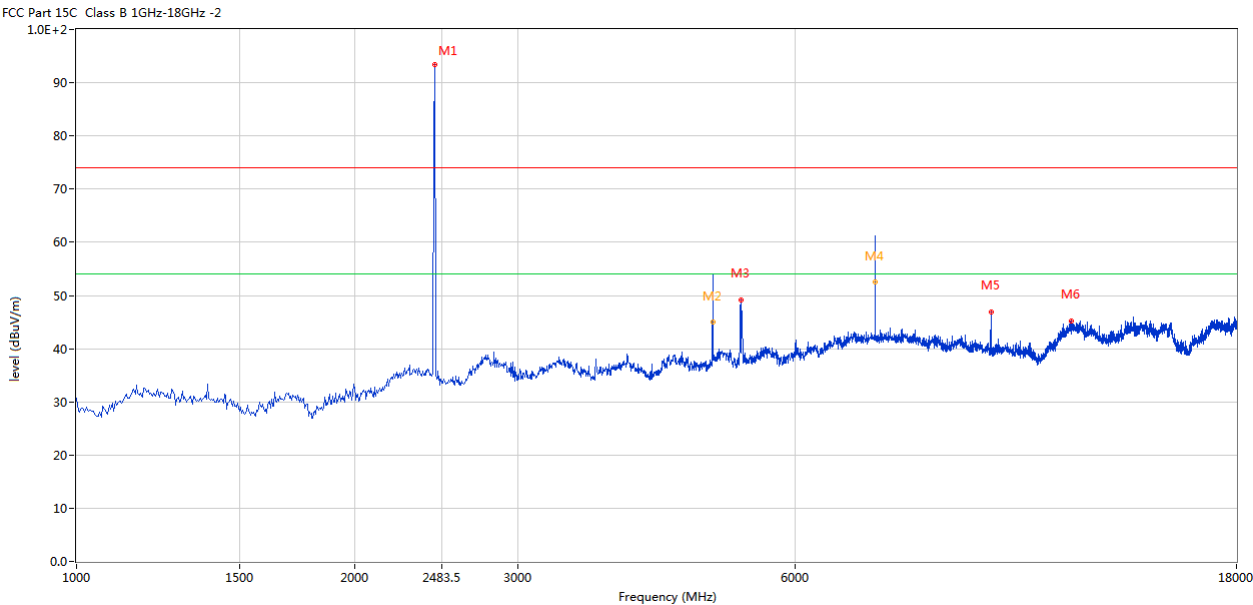
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.47	-3.57	74.0	19.47	Peak	320.00	100	Horizontal	N/A
2	4880.250	53.84	3.20	74.0	-20.16	Peak	155.00	100	Horizontal	Pass
2**	4880.250	45.05	3.20	54.0	-8.95	AV	155.00	100	Horizontal	Pass
3	5233.000	49.24	3.59	74.0	-24.76	Peak	131.00	100	Horizontal	Pass
4	7319.750	61.13	8.12	74.0	-12.87	Peak	267.00	100	Horizontal	Pass
4**	7319.750	52.49	8.12	54.0	-1.51	AV	267.00	100	Horizontal	Pass
5	9759.250	46.92	7.17	74.0	-27.08	Peak	8.00	100	Horizontal	Pass
6	11918.250	45.19	10.48	74.0	-28.81	Peak	195.00	100	Horizontal	Pass

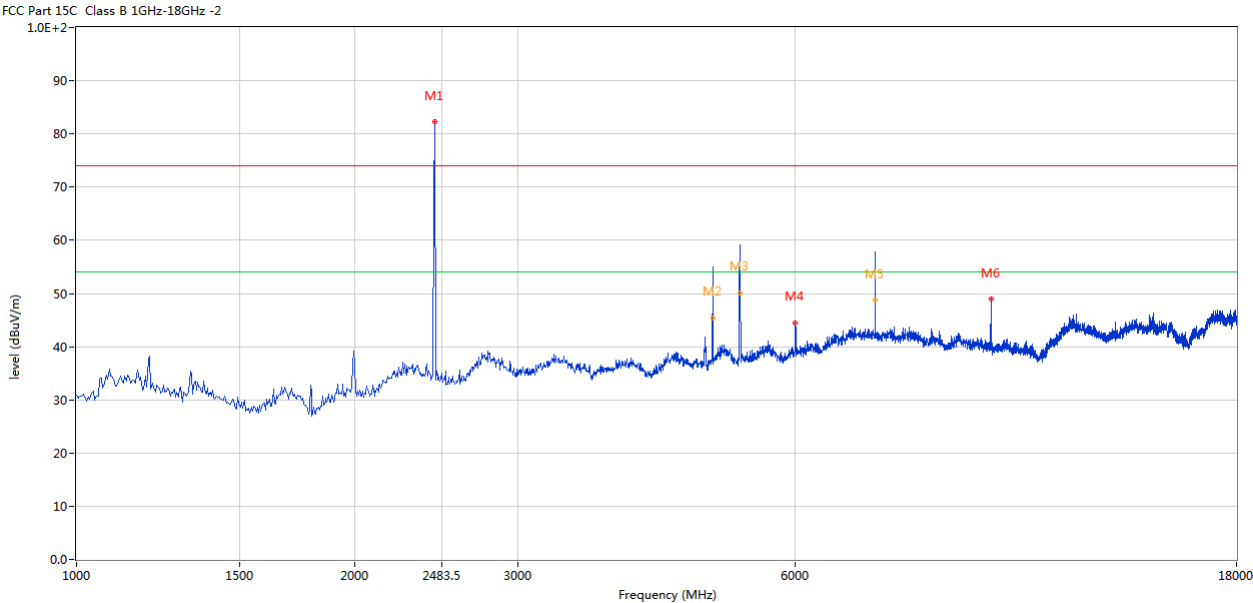
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	82.26	-3.57	74.0	8.26	Peak	323.00	100	Vertical	N/A
2	4880.250	55.07	3.20	74.0	-18.93	Peak	134.00	100	Vertical	Pass
2**	4880.250	45.31	3.20	54.0	-8.69	AV	134.00	100	Vertical	Pass
3	5220.250	59.21	3.61	74.0	-14.79	Peak	173.00	100	Vertical	Pass
3**	5220.250	50.14	3.61	54.0	-3.86	AV	173.00	100	Vertical	Pass
4	5998.000	44.39	3.78	74.0	-29.61	Peak	343.00	100	Vertical	Pass
5	7319.750	57.90	8.12	74.0	-16.10	Peak	273.00	100	Vertical	Pass
5**	7319.750	48.79	8.12	54.0	-5.21	AV	273.00	100	Vertical	Pass
6	9759.250	48.88	7.17	74.0	-25.12	Peak	207.00	100	Vertical	Pass

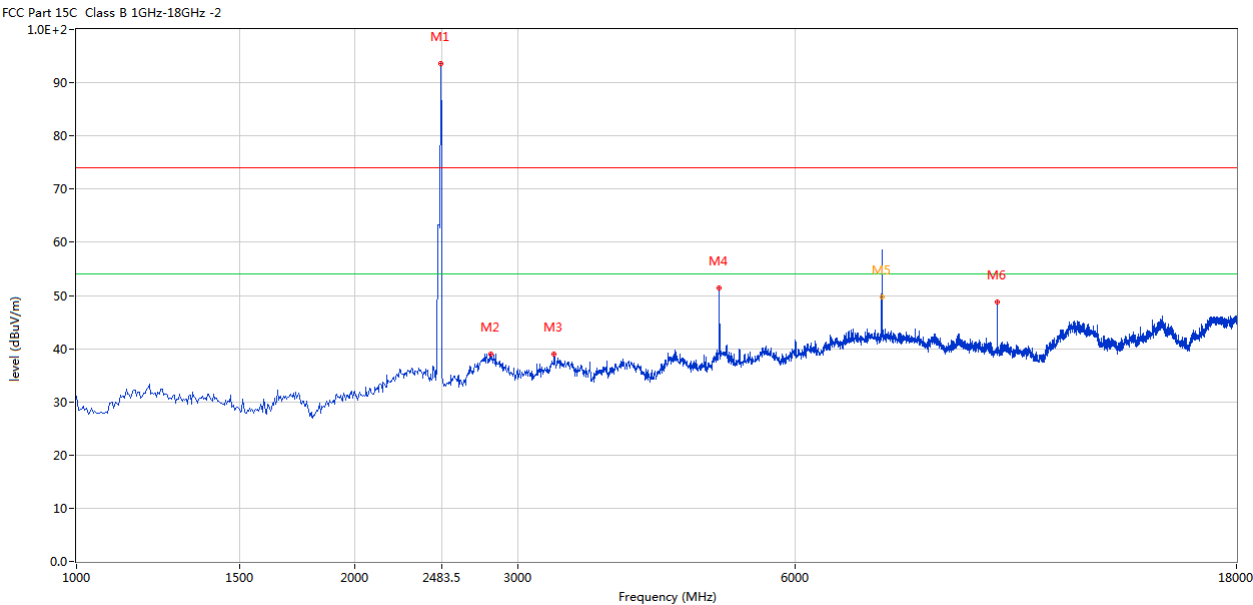
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	93.58	-3.57	74.0	19.58	Peak	190.00	100	Horizontal	N/A
2	2810.500	39.02	-2.69	74.0	-34.98	Peak	120.00	100	Horizontal	Pass
3	3286.500	39.04	-2.10	74.0	-34.96	Peak	57.00	100	Horizontal	Pass
4	4961.000	51.42	3.36	74.0	-22.58	Peak	141.00	100	Horizontal	Pass
5	7438.750	58.62	8.17	74.0	-15.38	Peak	273.00	100	Horizontal	Pass
5**	7438.750	49.73	8.17	54.0	-4.27	AV	273.00	100	Horizontal	Pass
6	9920.750	48.85	7.04	74.0	-25.15	Peak	0.00	100	Horizontal	Pass

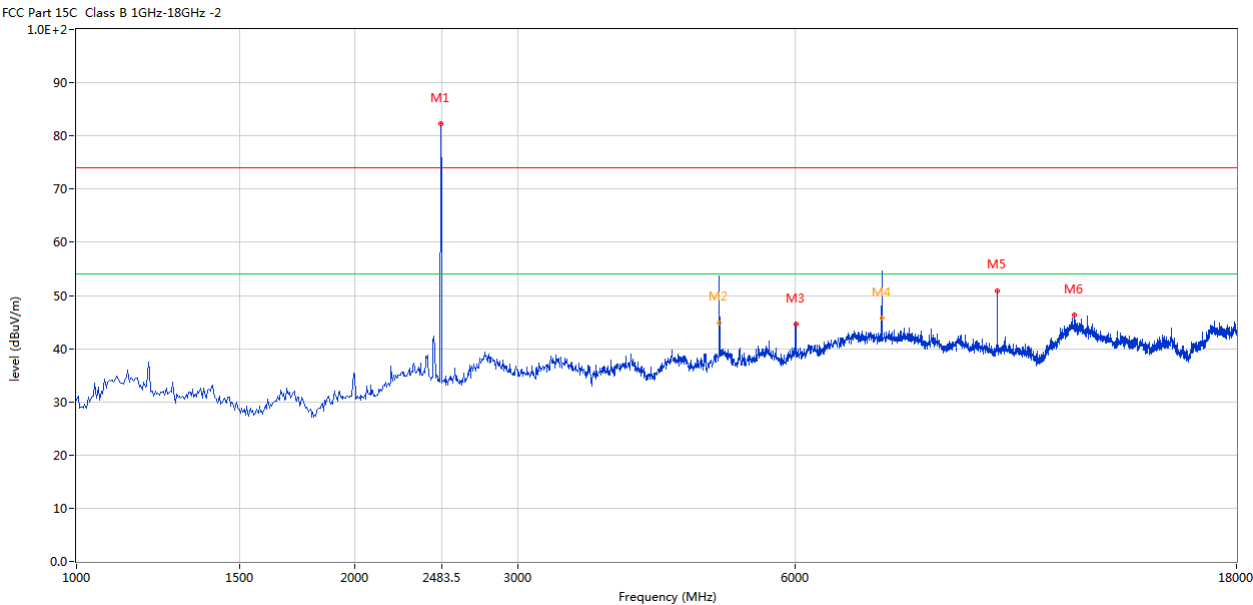
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	82.31	-3.57	74.0	8.31	Peak	145.00	100	Vertical	N/A
2	4961.000	53.75	3.36	74.0	-20.25	Peak	137.00	100	Vertical	Pass
2**	4961.000	44.82	3.36	54.0	-9.18	AV	137.00	100	Vertical	Pass
3	6002.250	44.56	3.79	74.0	-29.44	Peak	338.00	100	Vertical	Pass
4	7438.750	54.56	8.17	74.0	-19.44	Peak	271.00	100	Vertical	Pass
4**	7438.750	45.71	8.17	54.0	-8.29	AV	271.00	100	Vertical	Pass
5	9920.750	50.93	7.04	74.0	-23.07	Peak	221.00	100	Vertical	Pass
6	12020.250	46.23	10.95	74.0	-27.77	Peak	174.00	100	Vertical	Pass

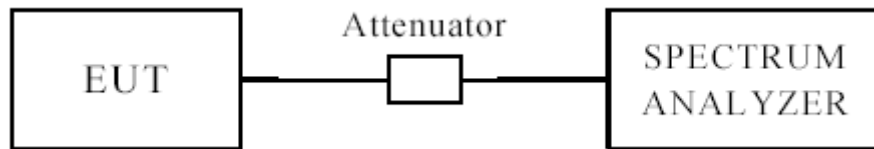
- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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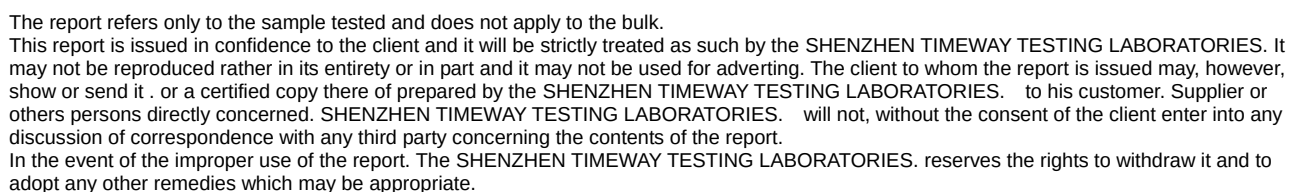


LE-1M

EUT	BTX Smart Link Pro		Model	
Mode	Keep Transmitting		Input Voltage	DC3.3V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	684	500	Pass
Middle	2440	684	500	Pass
High	2480	684	500	Pass

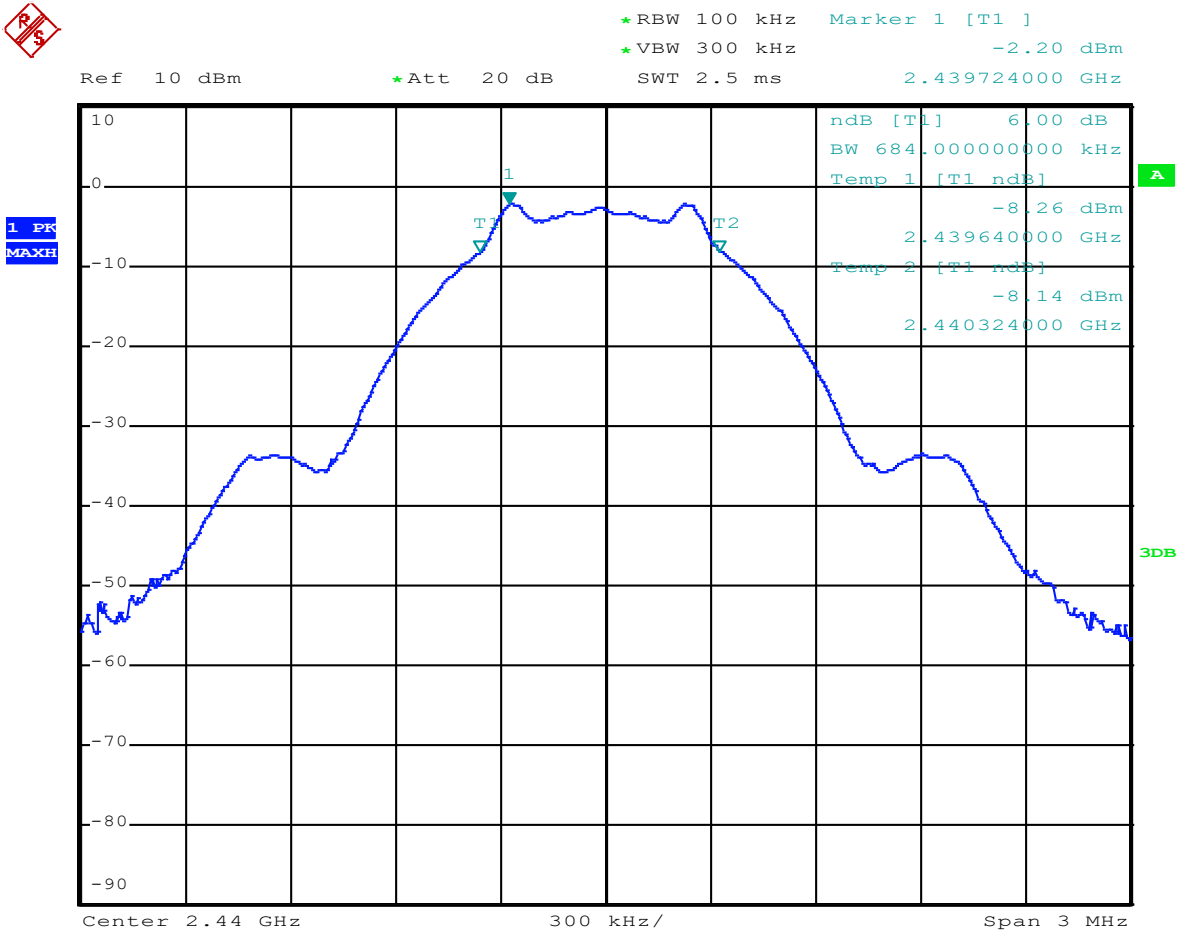
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2.401736000 GHz





2. Condition: Middle Channel

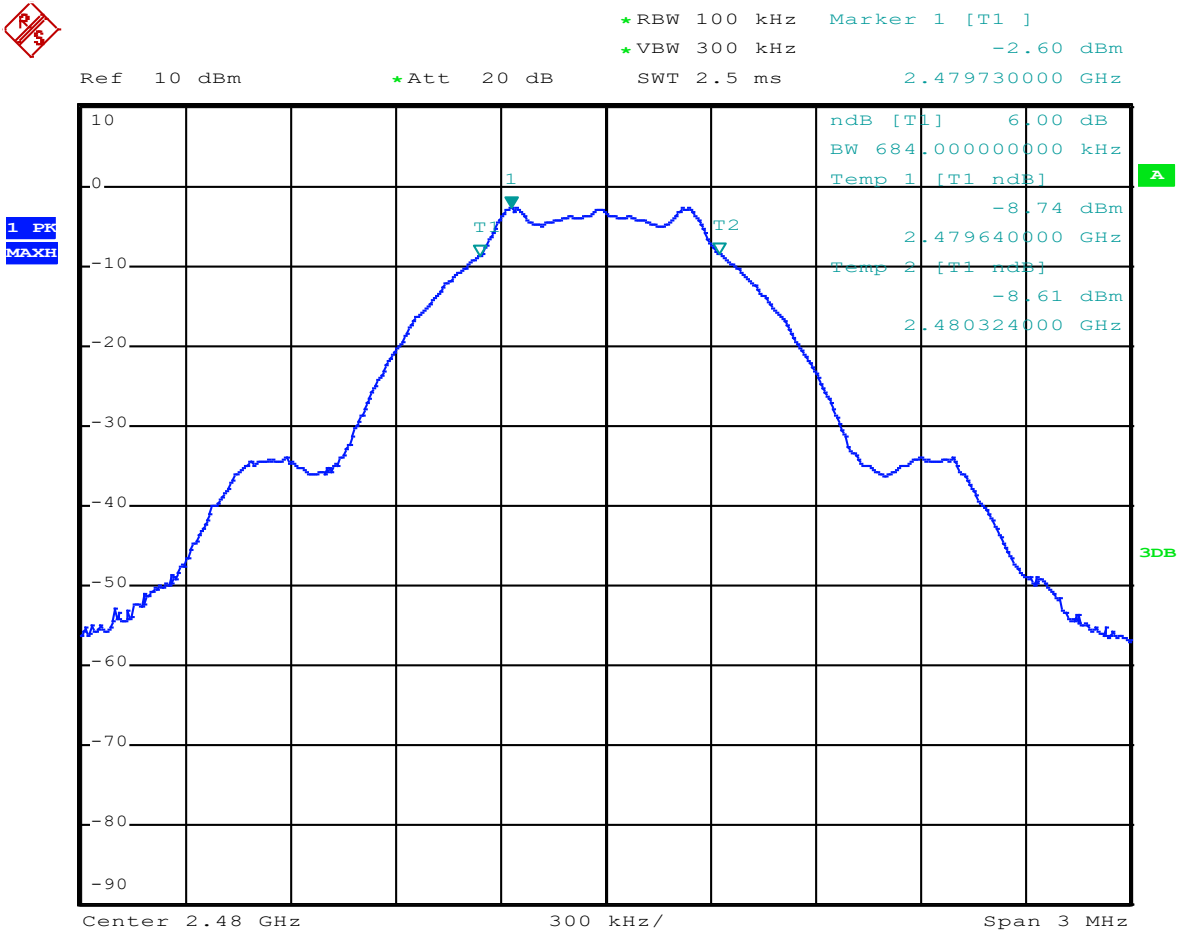


Date: 29.OCT.2025 14:00:12

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3. High Channel



Date: 29.OCT.2025 13:59:07

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LE-2M

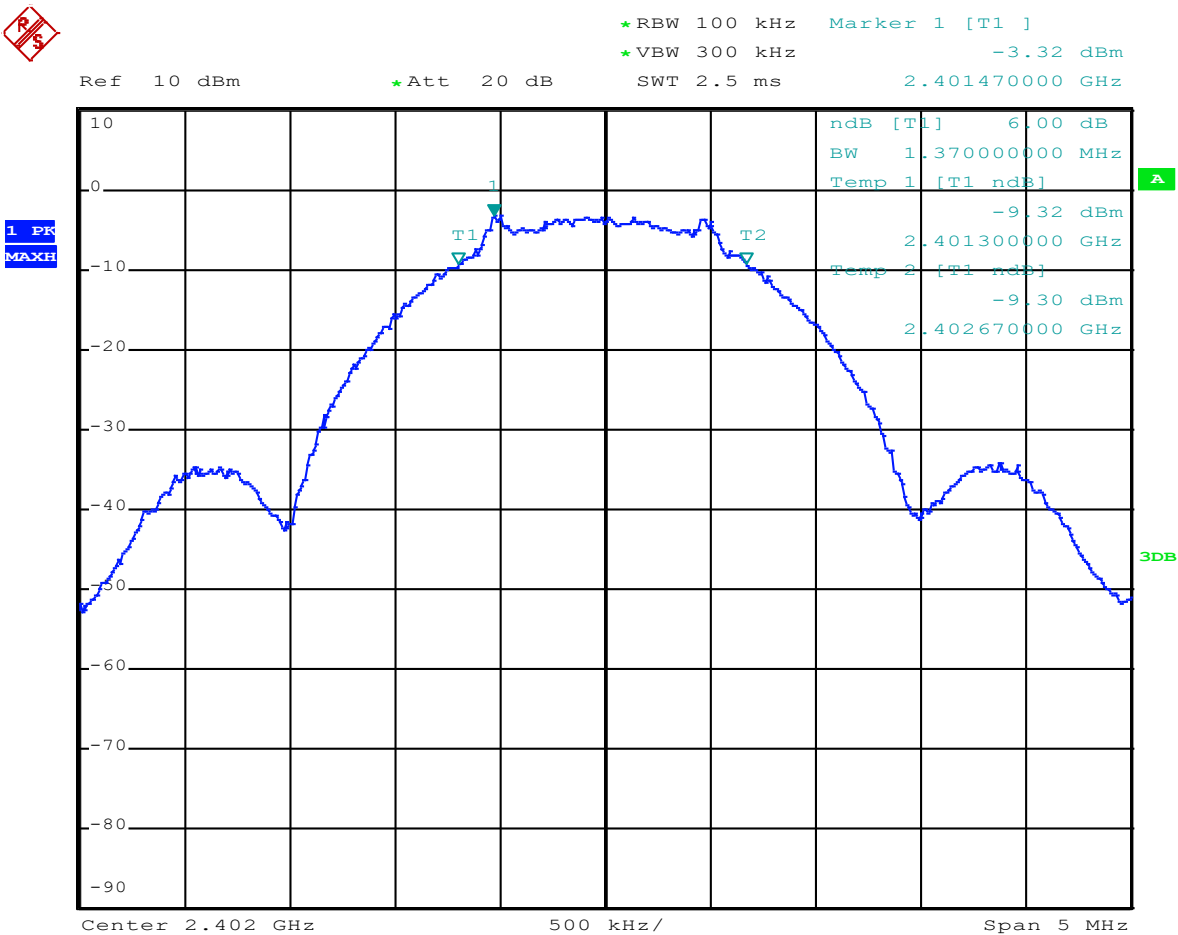
EUT	BTX Smart Link Pro		Model		
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail	
Low	2402	1370	500	Pass	
Middle	2440	1390	500	Pass	
High	2480	1300	500	Pass	

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Test Figure:

1. Condition: Low Channel

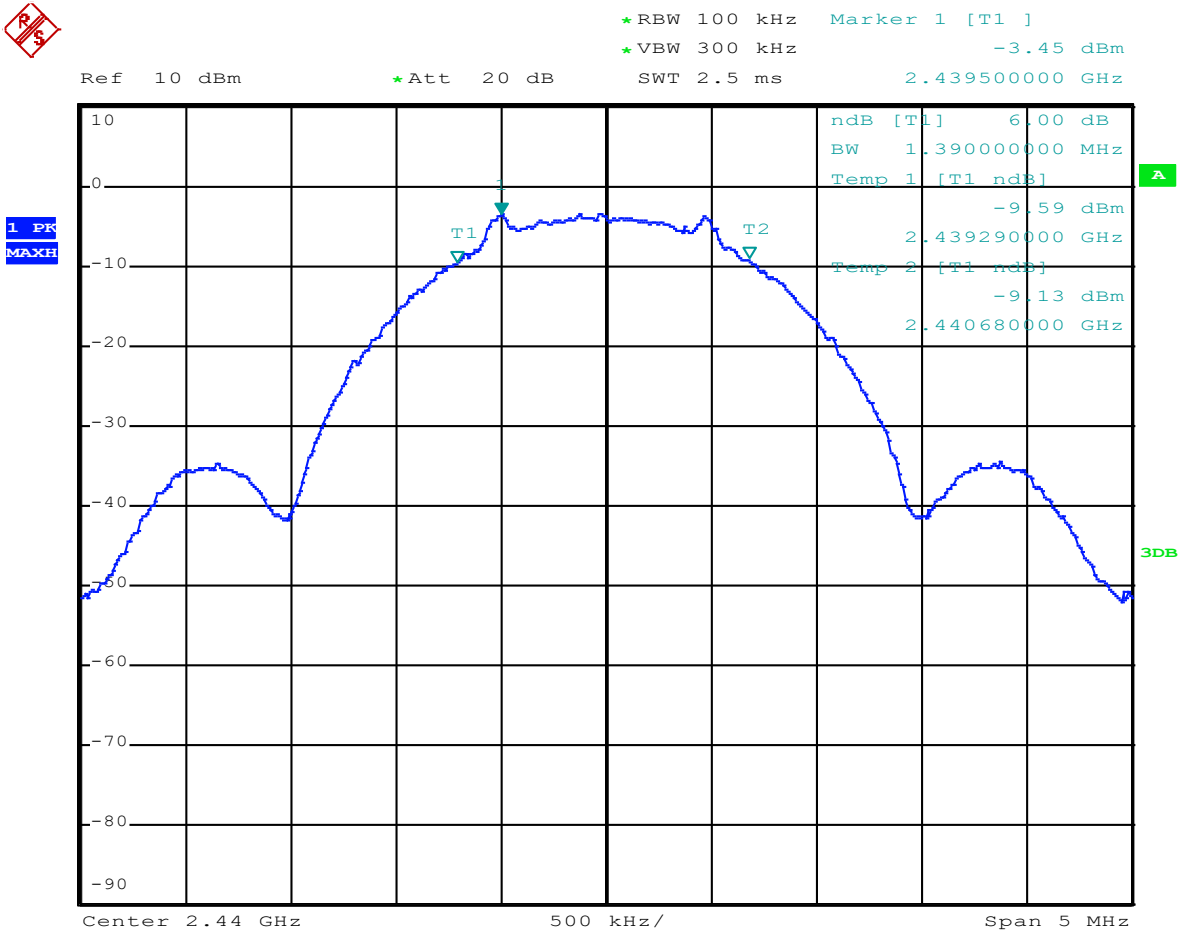


Date: 29.OCT.2025 13:48:05

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2. Condition: Middle Channel

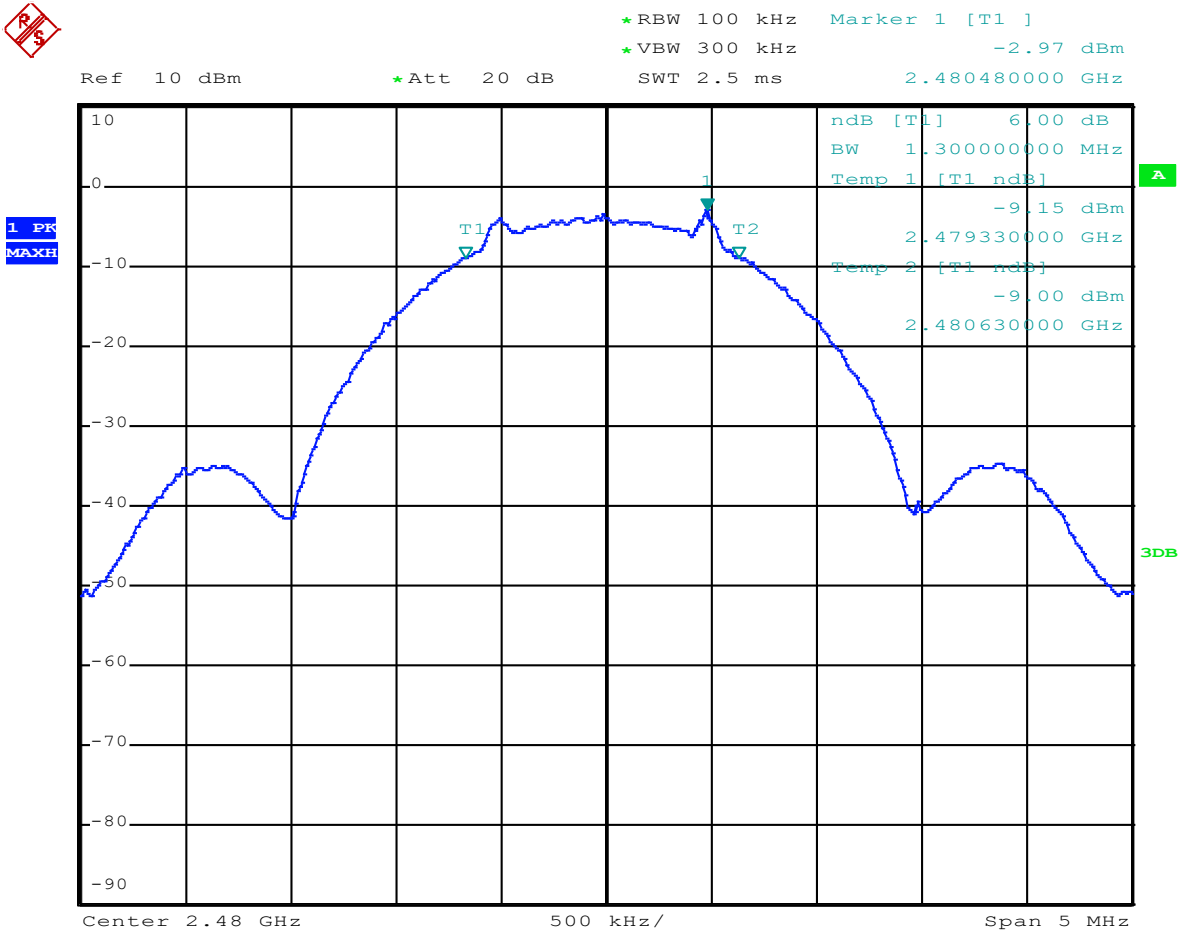


Date: 29.OCT.2025 13:47:30

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3. High Channel



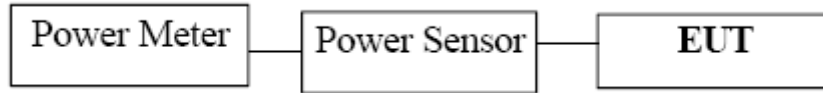
Date: 29.OCT.2025 13:45:47

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4 Test Results

LE-1M

EUT		BTX Smart Link Pro		Model			
Mode		Keep Transmitting		Input Voltage		DC3.3V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	-1.69			30	Pass	
Middle	2440	-2.12			30	Pass	
High	2480	-2.51			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

LE-2M

EUT		BTX Smart Link Pro		Model			
Mode		Keep Transmitting		Input Voltage	DC3.3V		
Temperature		24 deg. C,		Humidity	56% RH		
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	-1.69			30	Pass	
Middle	2440	-2.15			30	Pass	
High	2480	-2.54			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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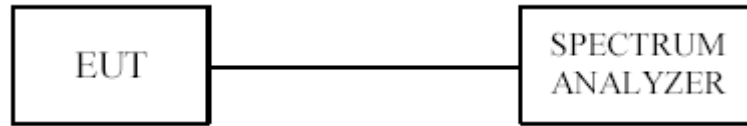
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW $\geq$ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm/3kHz.

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9.4 Test Result

LE-1M

EUT	BTX Smart Link Pro			Model	
Mode	Keep Transmitting			Input Voltage	DC3.3V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-6.67	0.2	-6.47	8	Pass
Middle	-7.55	0.2	-7.35	8	Pass
High	-7.65	0.2	-7.45	8	Pass

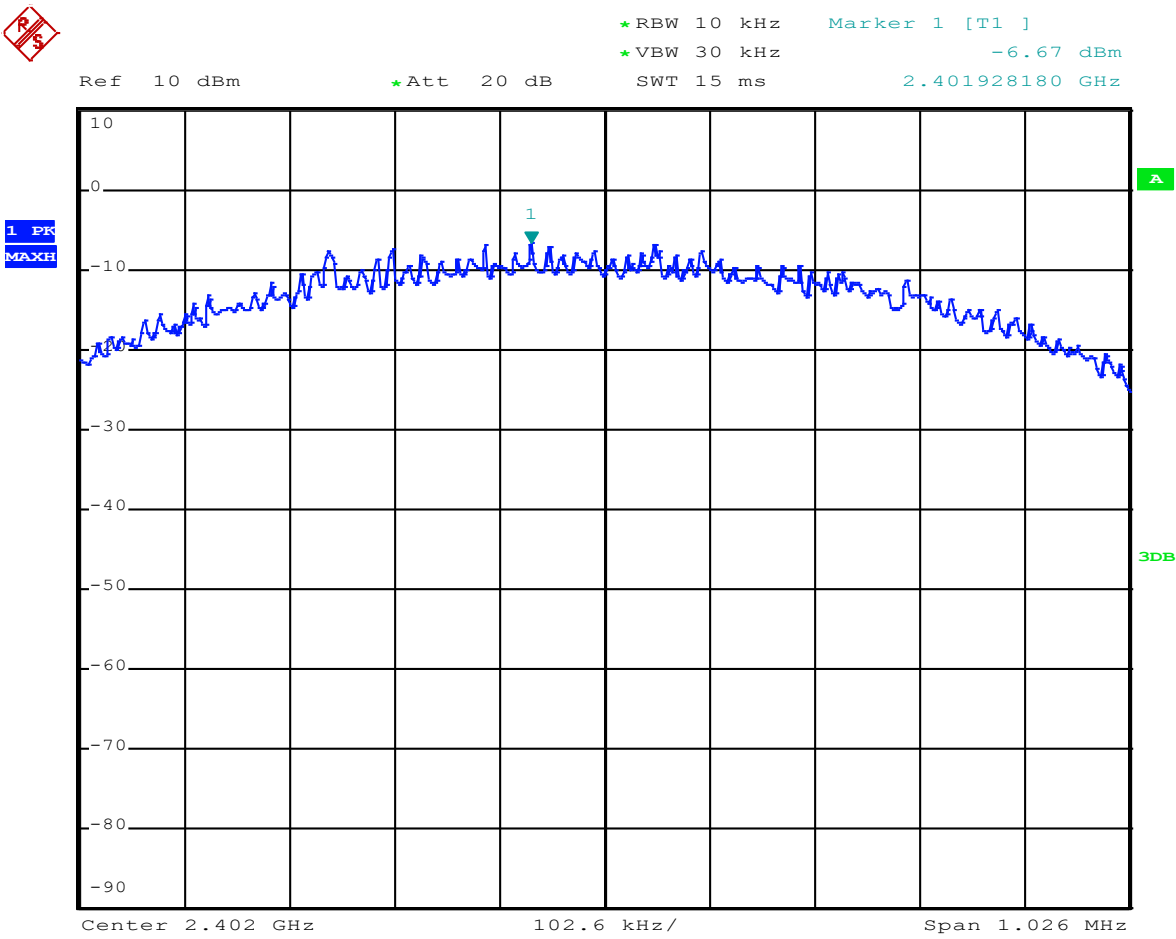
Note: The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$



Test Figure:

1. Condition: Low Channel

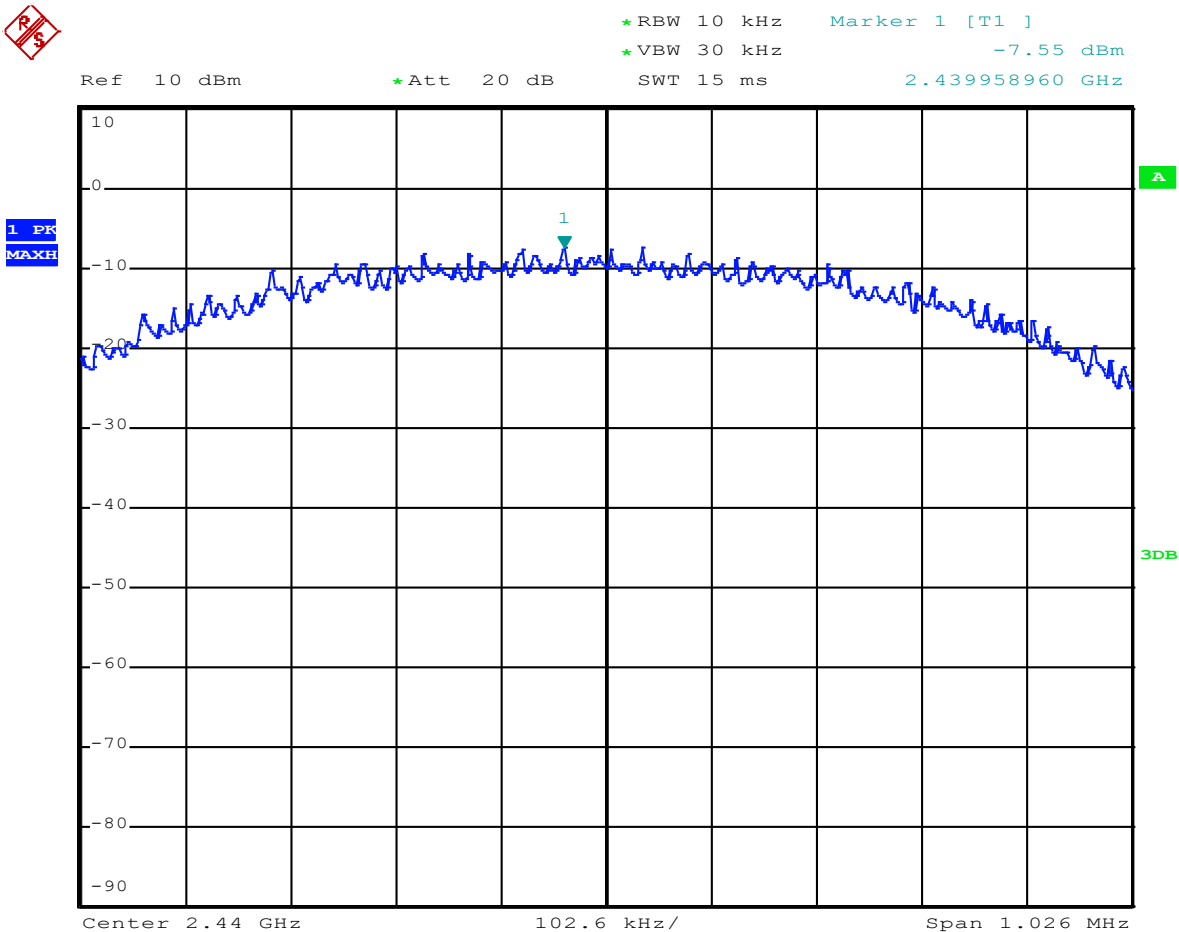


Date: 29.OCT.2025 14:05:14

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2. Condition: Middle Channel

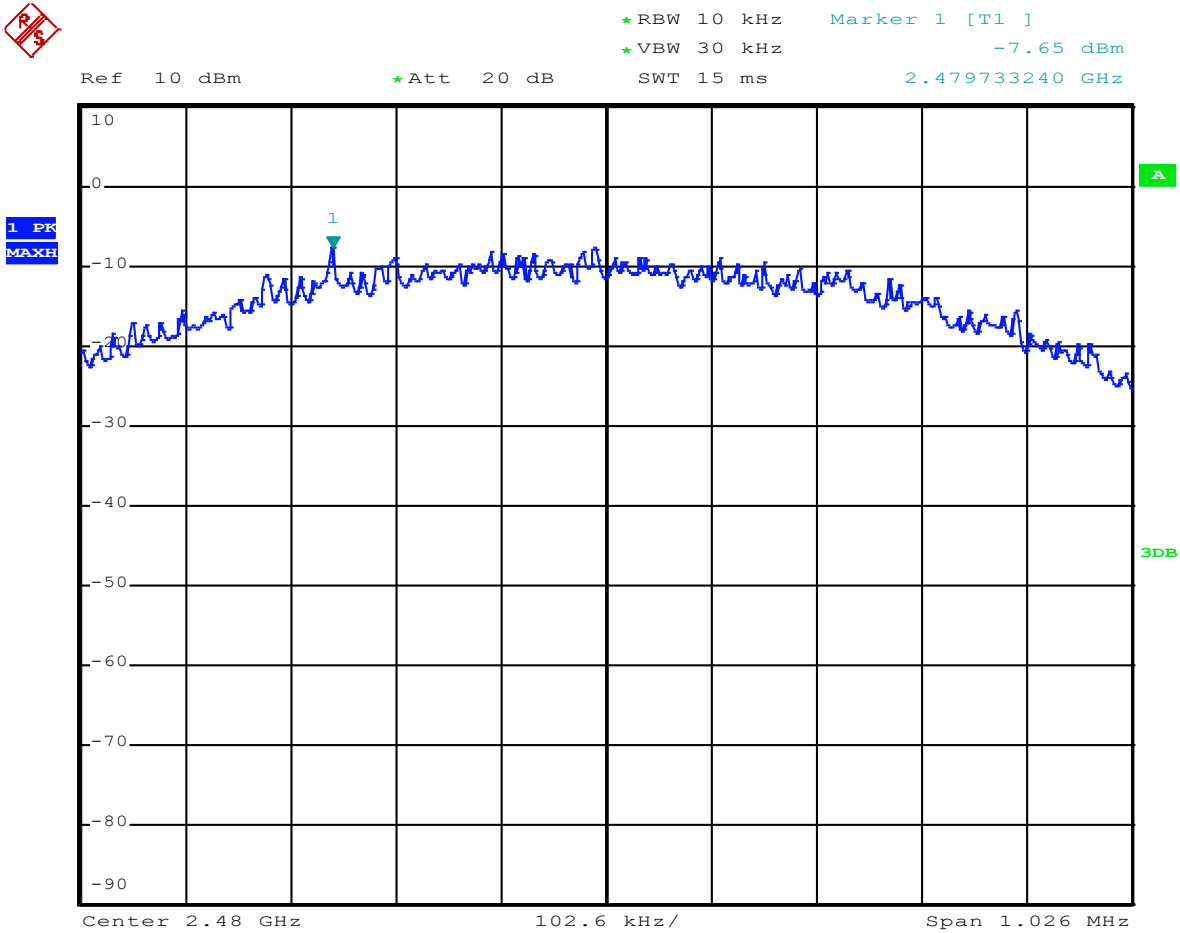


Date: 29.OCT.2025 14:05:58

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3. High Channel



Date: 29.OCT.2025 14:06:25

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LE-2M

EUT		BTX Smart Link Pro		Model	
Mode		Keep Transmitting		Input Voltage	
Temperature		24 deg. C,		Humidity	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
	Low	-7.59	0.2	-7.39	8
	Middle	-9.33	0.2	-9.13	8
	High	-8.90	0.2	-8.70	8

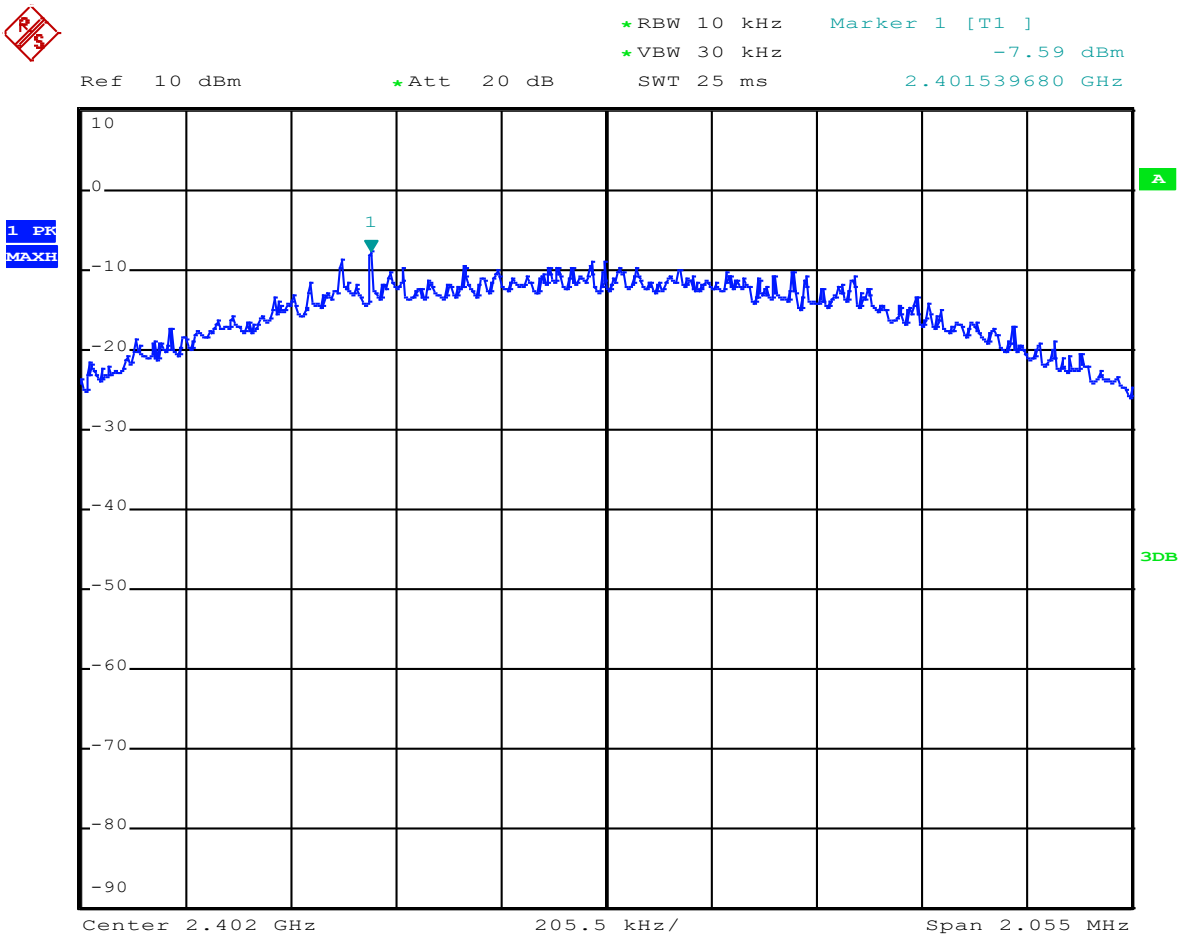
Note: The result basic equation calculation as follow:
Peak Power Output = Peak Power Reading + Cable loss

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Test Figure:

1. Condition: Low Channel

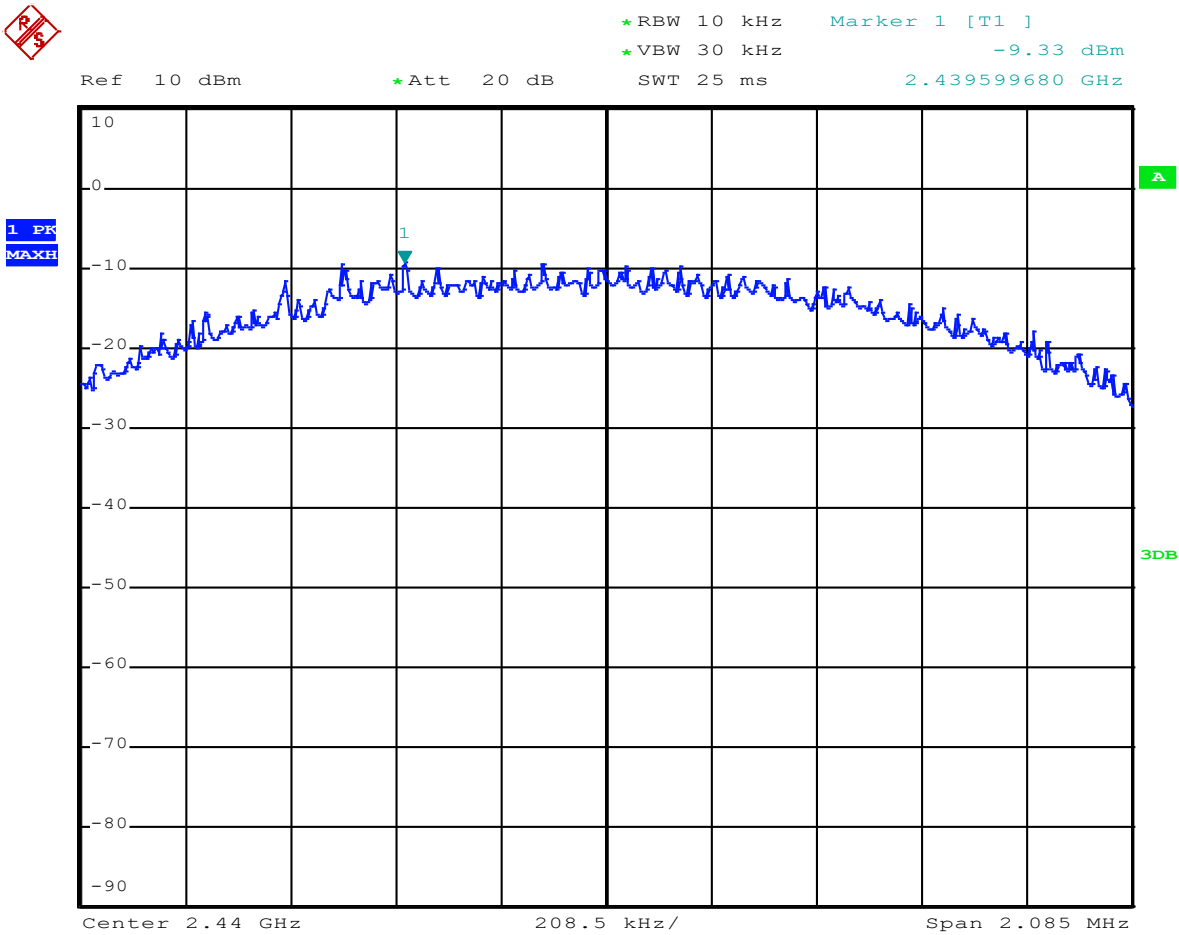


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2. Condition: Middle Channel

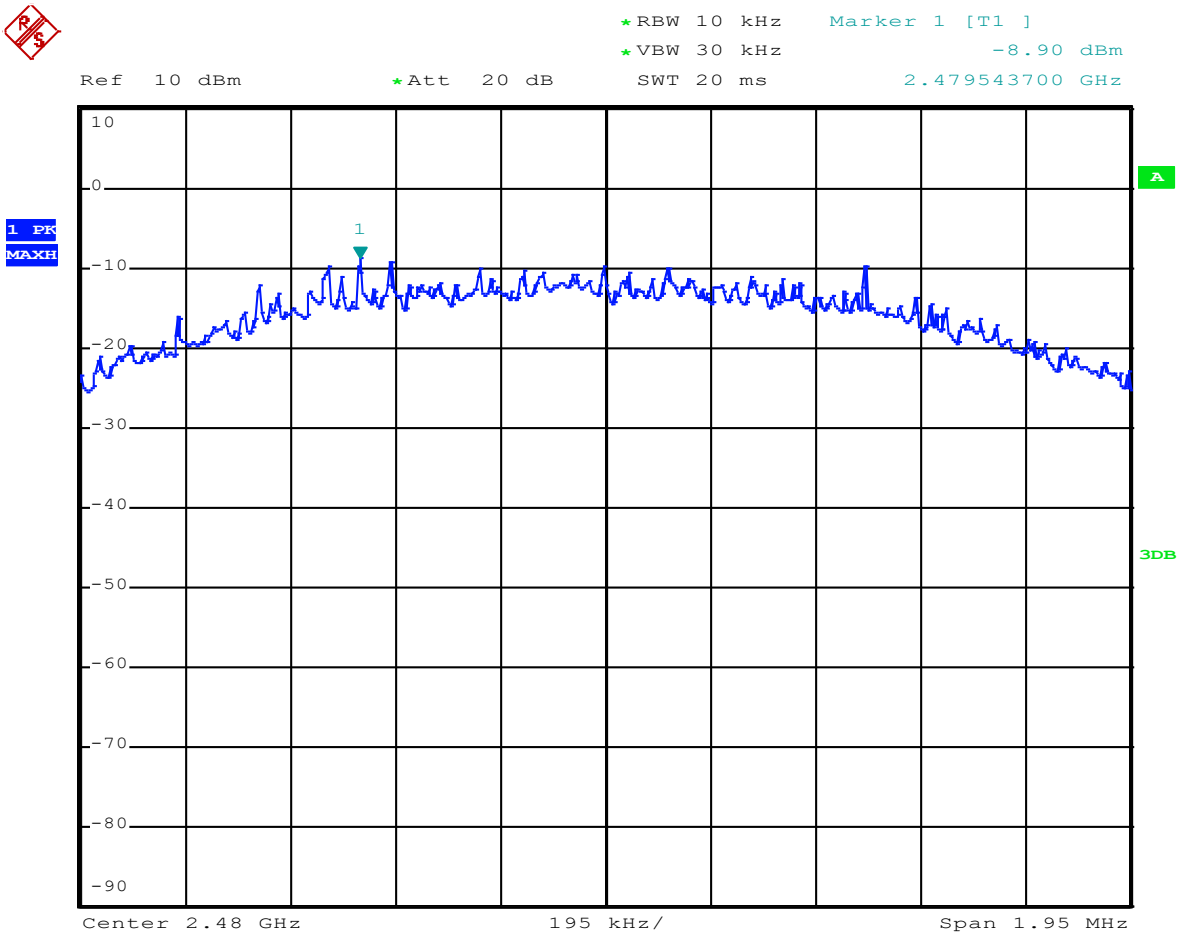


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3. High Channel



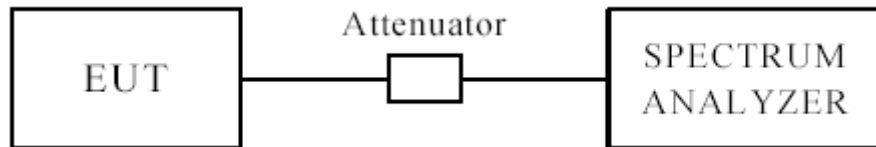
Date: 29.OCT.2025 13:57:56

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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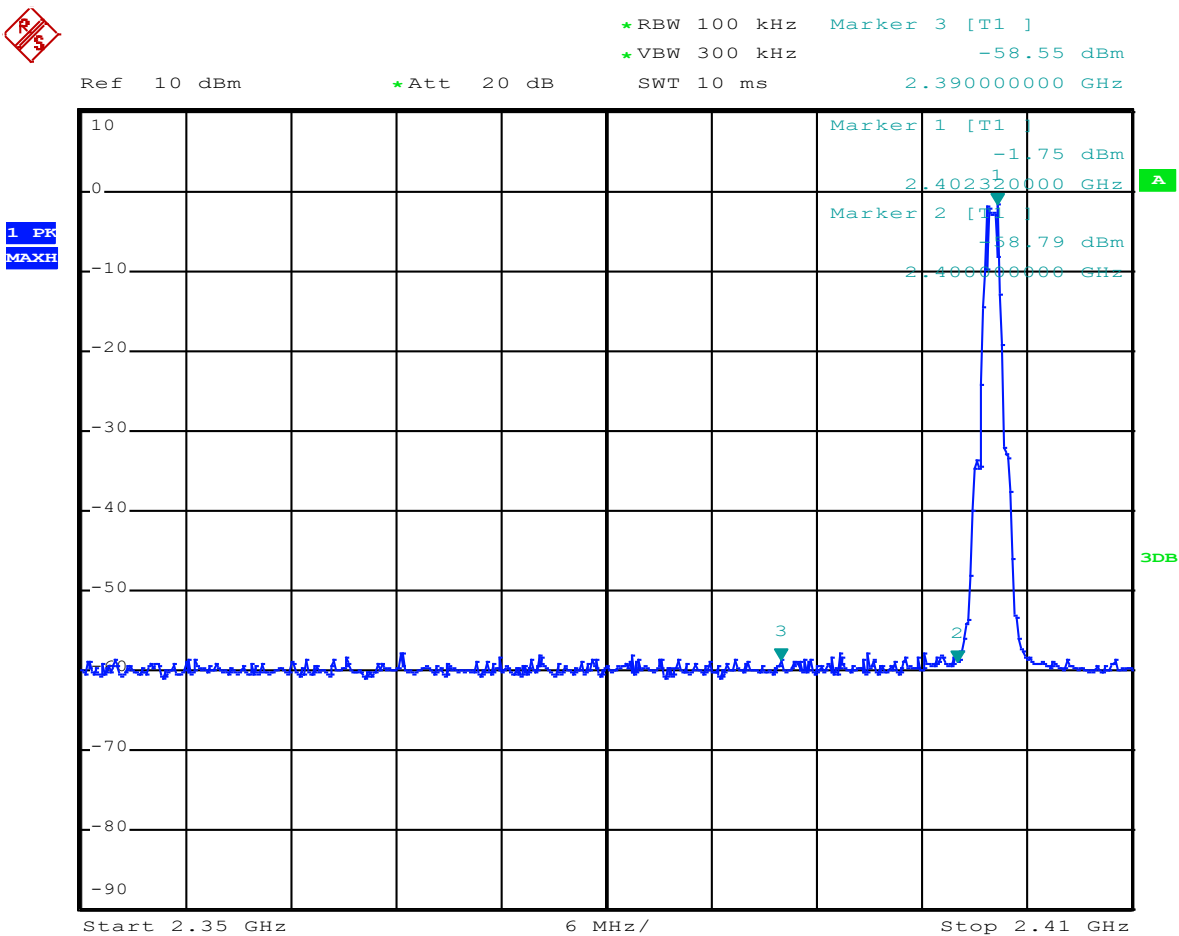


LE-1M

10.4 Band-edge Measurement

EUT	BTX Smart Link Pro	Model	
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 29.OCT.2025 14:02:03

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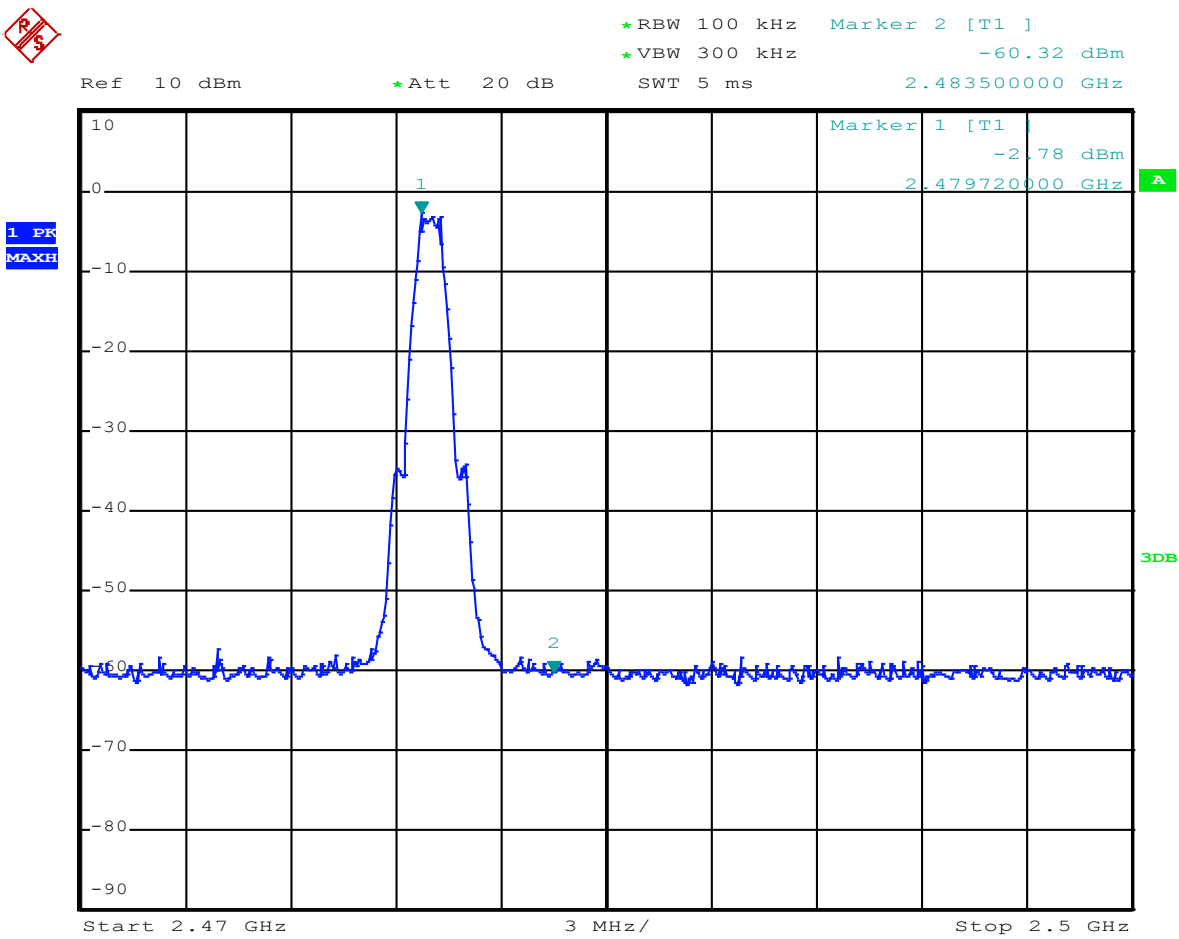


LE-1M

10.4 Band-edge Measurement

EUT	BTX Smart Link Pro	Model	
Mode	Keeping Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 29.OCT.2025 14:02:58

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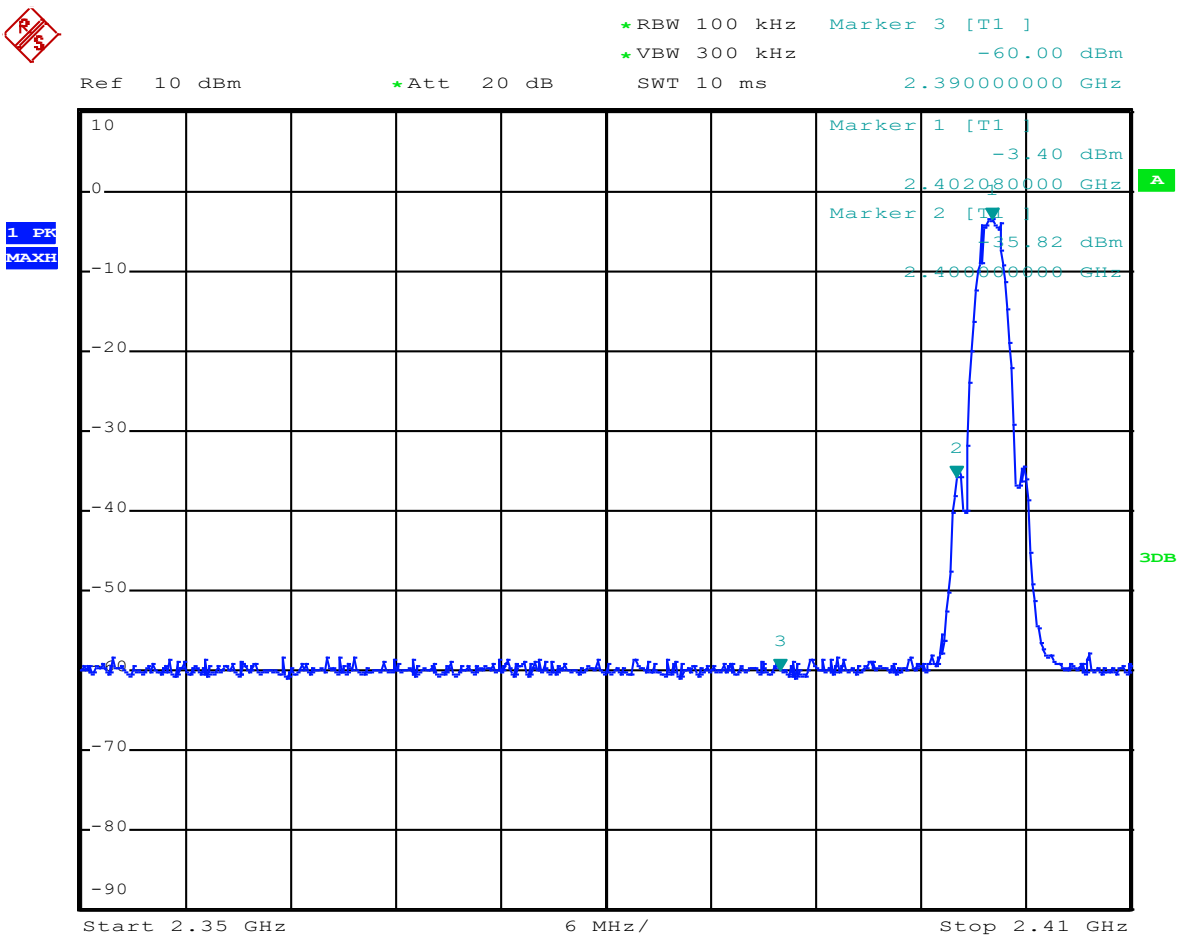


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	BTX Smart Link Pro	Model	
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 29.OCT.2025 13:49:02

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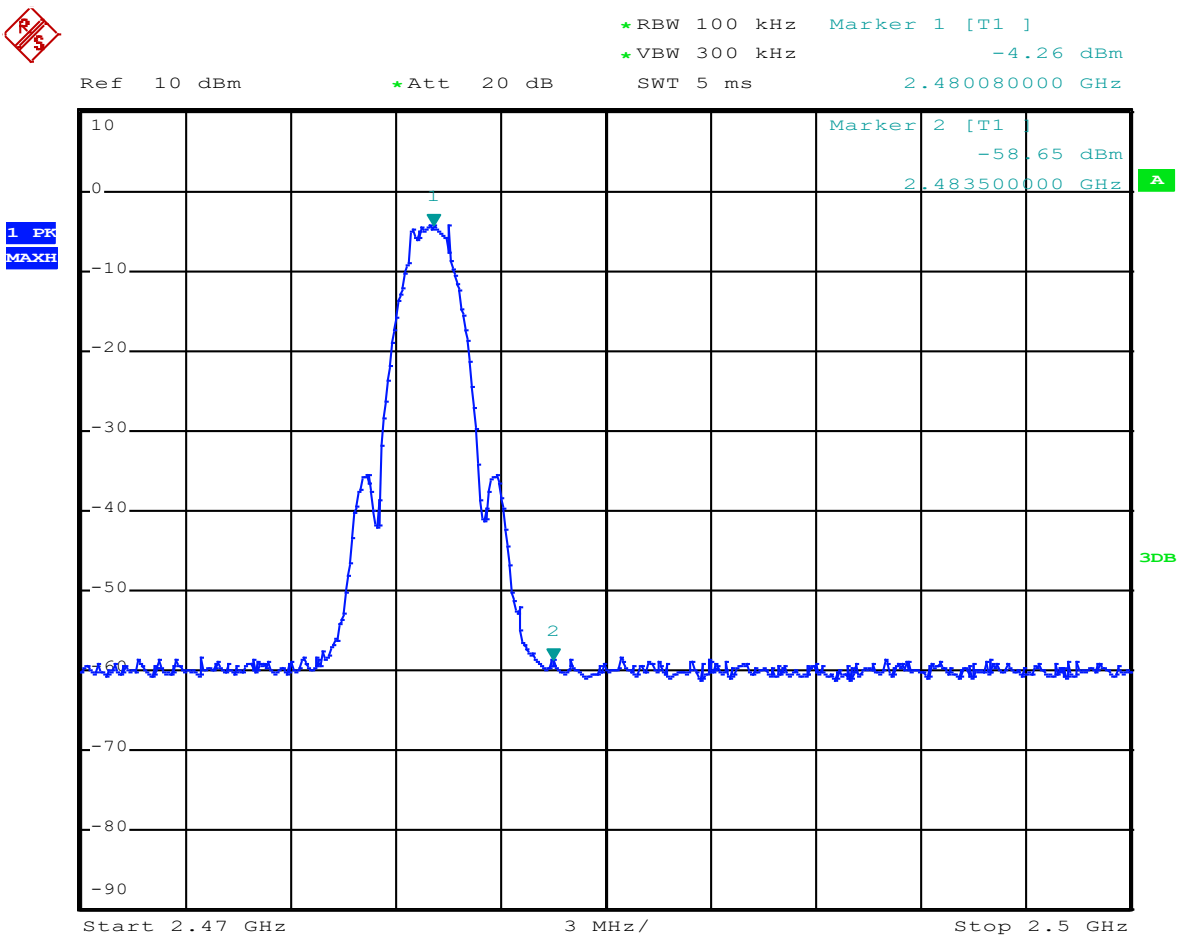


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	BTX Smart Link Pro	Model	
Mode	Keeping Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



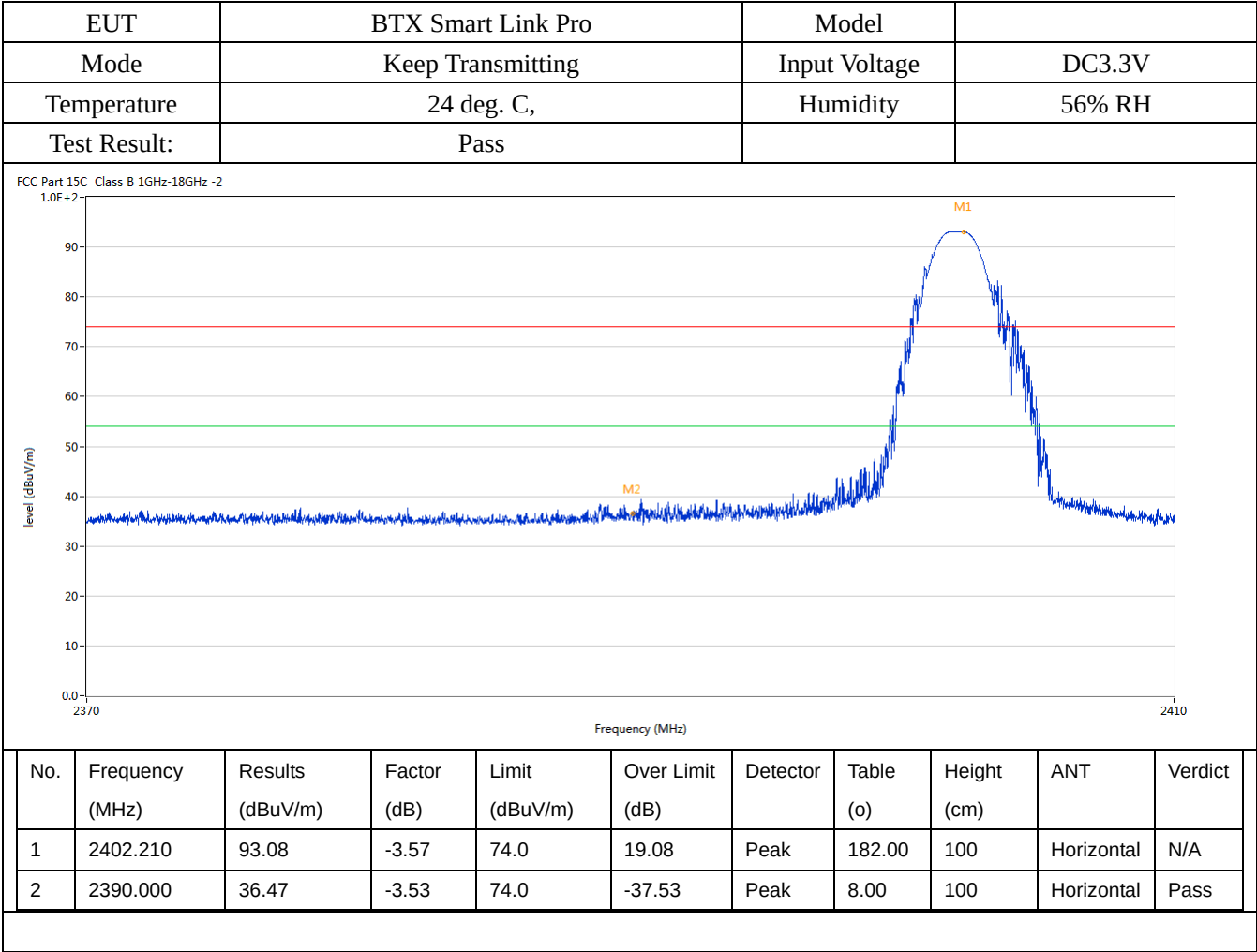
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LE-1M

10.4 Restrict Band Measurement



Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-1M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro	Model	
Mode	Keep Transmitting	Input Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.220	82.77	-3.57	74.0	8.77	Peak	339.00	100	Vertical	N/A
2	2390.000	38.53	-3.53	74.0	-35.47	Peak	159.00	100	Vertical	Pass

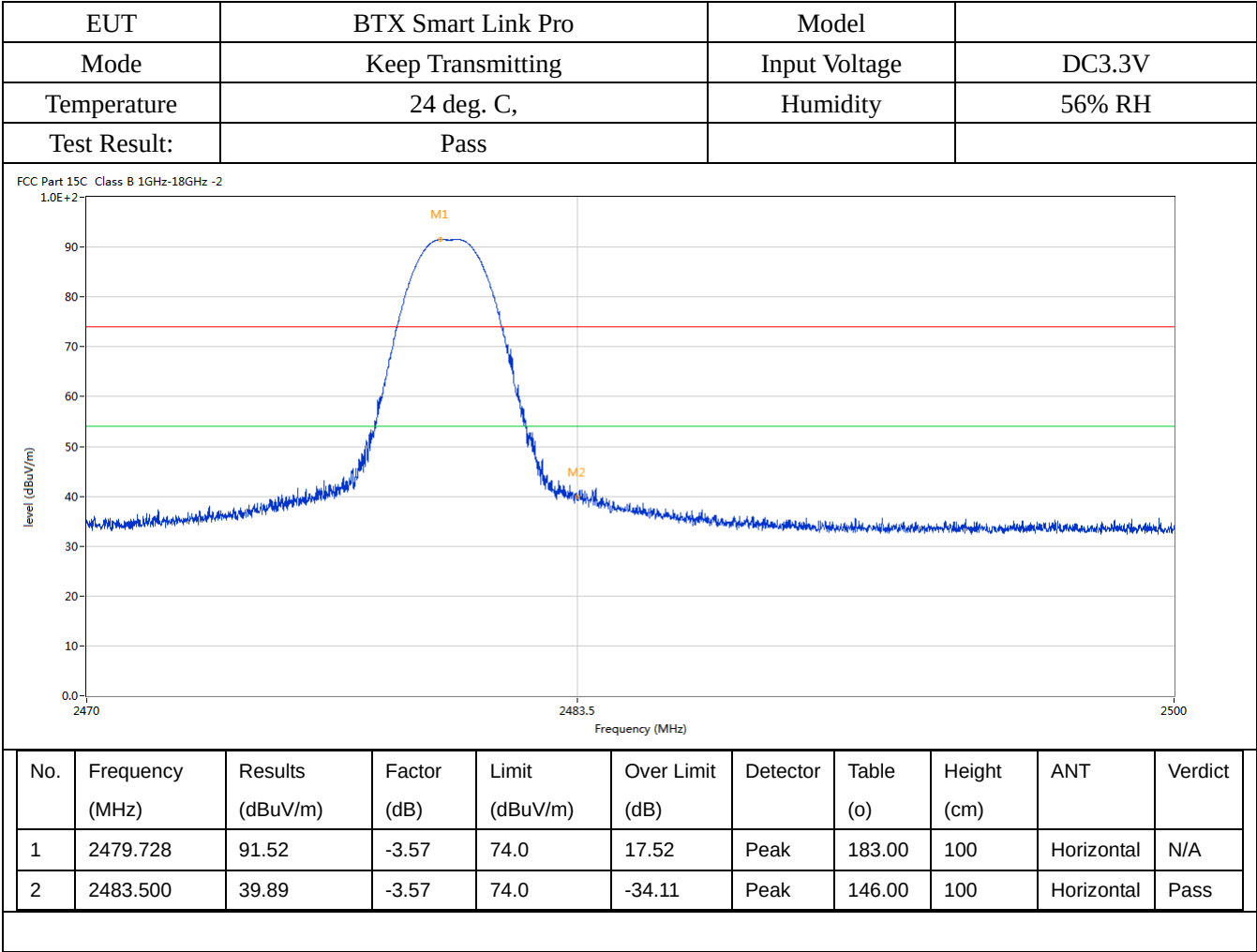
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-1M

10.4 Restrict Band Measurement



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LE-1M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro		Model	
Mode	Keep Transmitting		Input Voltage	DC3.3V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass			

FCC Part 15C Class B 1GHz-18GHz -2

The spectrum plot displays the radio frequency emissions of the device. The x-axis represents Frequency in MHz, ranging from 2470 to 2500. The y-axis represents Level in dBuV/m, ranging from 0.0 to 1.0E+2. A blue line shows the measured signal, which has a prominent peak at 2480.215 MHz (labeled M1) and a smaller peak at 2483.500 MHz (labeled M2). Two horizontal reference lines are present: a red line at 74.0 dBuV/m and a green line at 54.0 dBuV/m. The peak at M1 exceeds the red limit line, while the peak at M2 is below the green limit line.

Frequency (MHz)	Level (dBuV/m)
2480.215	81.02
2483.500	34.85

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.215	81.02	-3.57	74.0	7.02	Peak	150.00	100	Vertical	N/A
2	2483.500	34.85	-3.57	74.0	-39.15	Peak	150.00	100	Vertical	Pass

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LE-2M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro	Model								
Mode	Keep Transmitting	Input Voltage	DC3.3V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass									
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.450	92.08	-3.57	74.0	18.08	Peak	43.00	100	Horizontal	N/A
2	2390.000	37.91	-3.53	74.0	-36.09	Peak	352.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-2M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro	Model	
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.440	81.61	-3.57	74.0	7.61	Peak	349.00	100	Vertical	N/A
2	2390.000	45.64	-3.53	74.0	-28.36	Peak	312.00	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-2M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro	Model	
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

90

80

70

60

50

40

30

20

10

0.0

level (dBuV/m)

2470

2483.5

2500

Frequency (MHz)

M1

M2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.447	91.16	-3.57	74.0	17.16	Peak	38.00	100	Horizontal	N/A
2	2483.500	37.64	-3.57	74.0	-36.36	Peak	38.00	100	Horizontal	Pass

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LE-2M

10.4 Restrict Band Measurement

EUT	BTX Smart Link Pro		Model	
Mode	Keep Transmitting		Input Voltage	
Temperature	24 deg. C,		Humidity	
Test Result:	Pass			

FCC Part 15C Class B 1GHz-18GHz -2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.433	81.14	-3.57	74.0	7.14	Peak	351.00	100	Vertical	N/A
2	2483.500	37.09	-3.57	74.0	-36.91	Peak	353.00	100	Vertical	Vertical

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is -0.61dBi (Get from the antenna test report)

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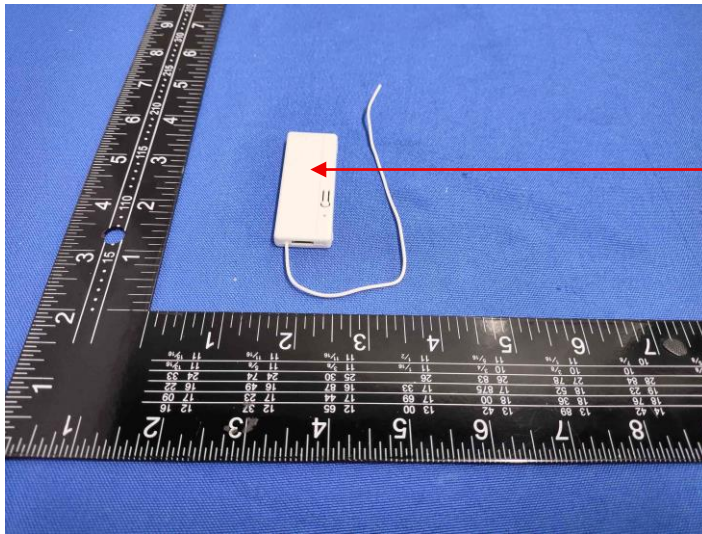


12.0 FCC ID Label

FCC ID: UGP-4049270

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Label Location

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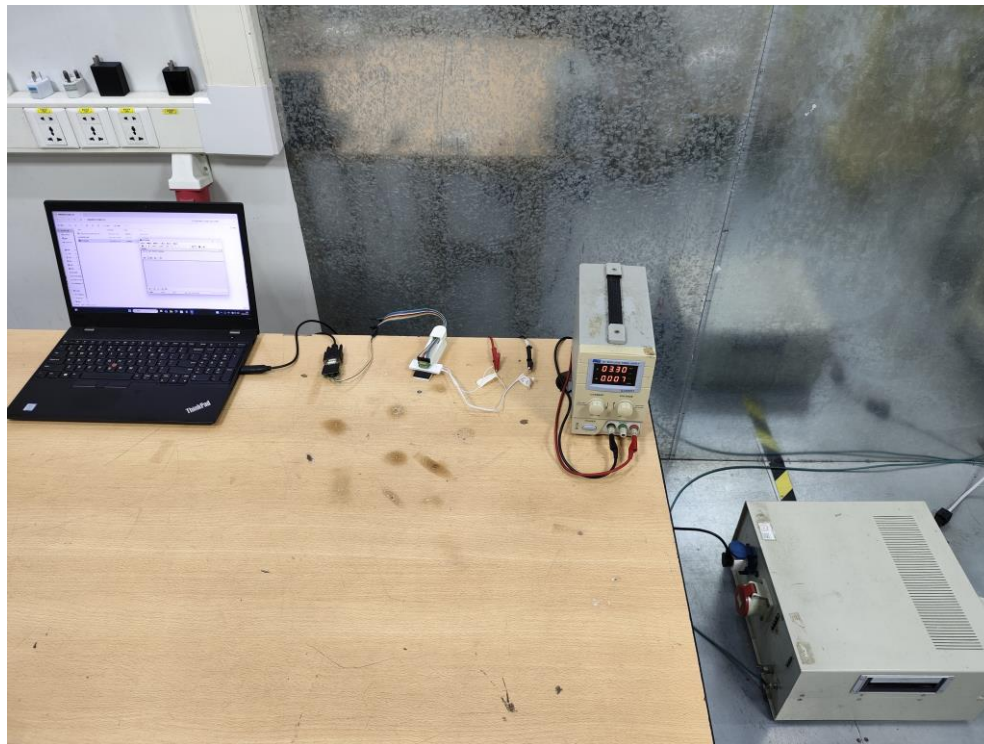
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13.0 Photo of testing

Conducted Emission Test Setup:



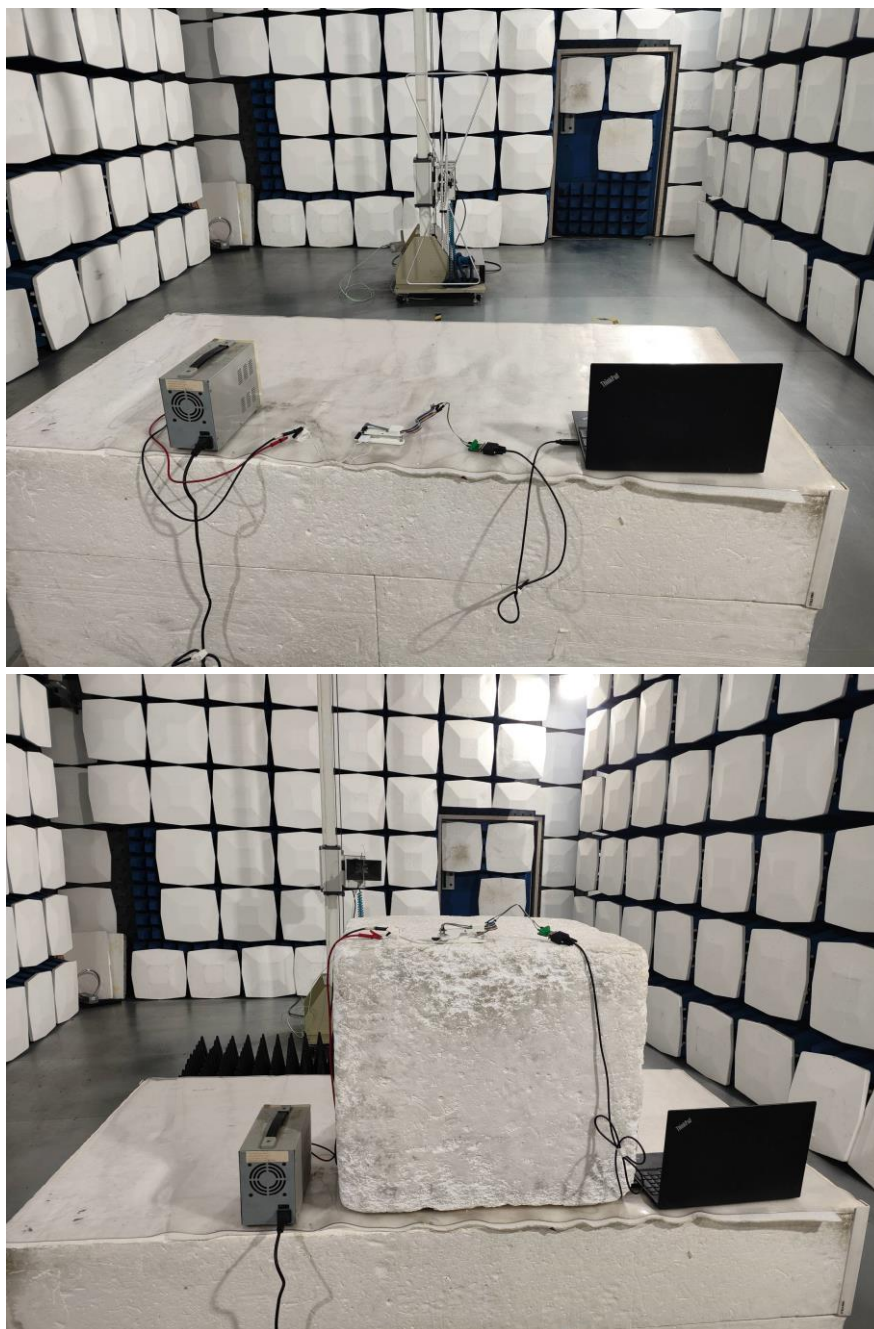
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Radiated Emission Test Setup:



Photographs – EUT

Please refer test report TW2510039-01E

End of the report

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