11. Antenna Requirements

11.1. Limit

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 transmitting 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.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

11.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

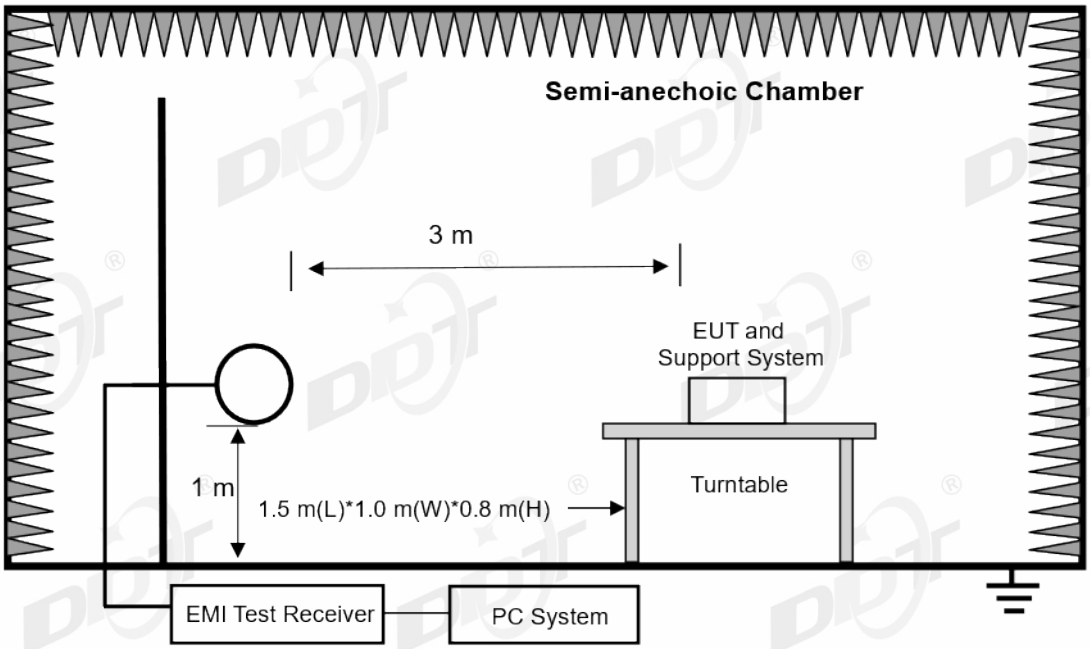
12. Radiated Emission

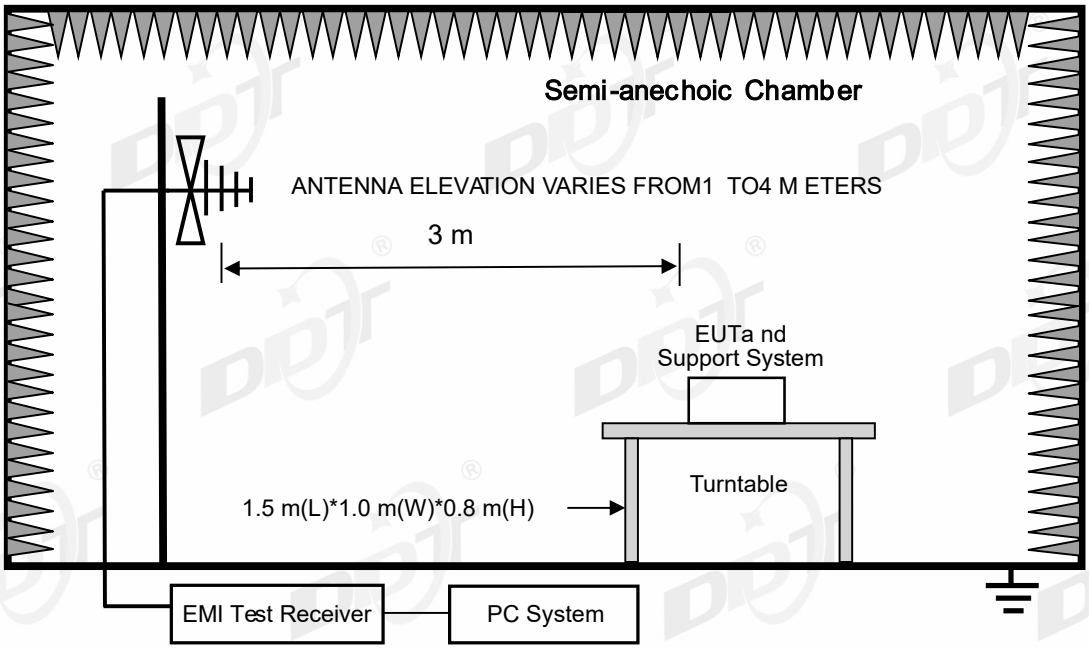
12.1. Test equipment

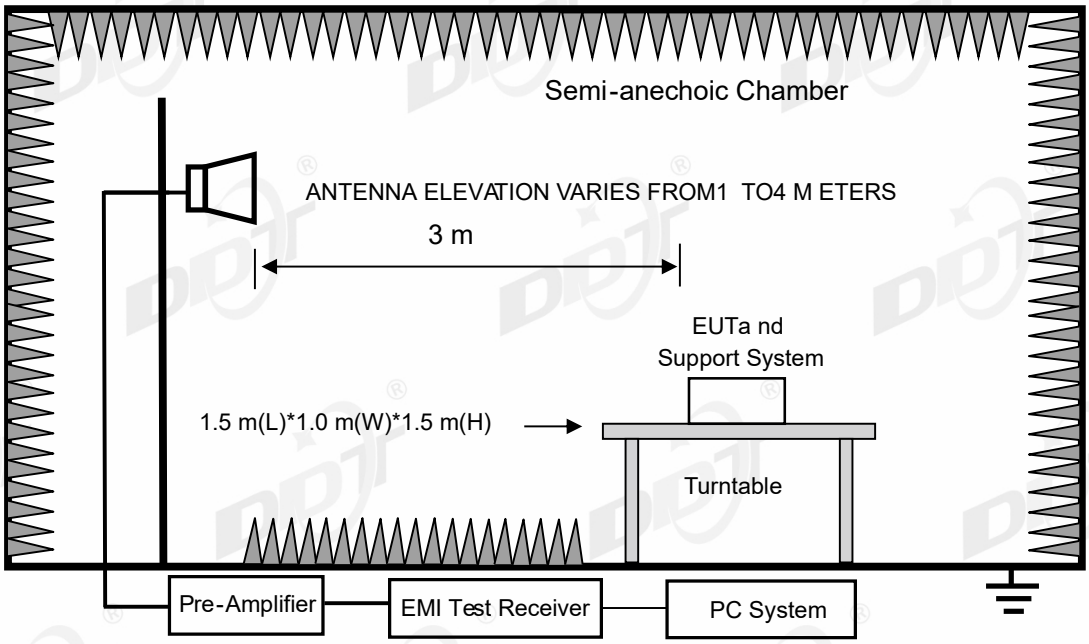
Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2027/02/27
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-5M	DDT-ZC03800	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS32-RE（V5.0.0）	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2027/06/25
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2027/07/08
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2027/02/27
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2027/02/27
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2027/07/10
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2027/07/10
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2027/07/10
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Signal &Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2027/07/10
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2027/06/25
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04

PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE（V5.0.0）	DDT-ZC06466	/

12.2. Block diagram of test setup







12.3. Limits

(1) 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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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			

1Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	uV/m	dBuV/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 dBuV/m(Peak) 54.0 dBuV/m(Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz,

radiated emissions limits in these three bands are based on measurements employing an average detector.

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

$$Limit_{3m}(dBuV/m)= Limit_{30m}(dBuV/m) + 40Log(30m/3m)$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

12.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

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

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0°to 360°on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement 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 of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

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

(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 produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10 on Radiated Emission test.

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

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10 clause 4.1.5.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 25 GHz and recorded in below.

(10) For 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is reported)

(11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode.

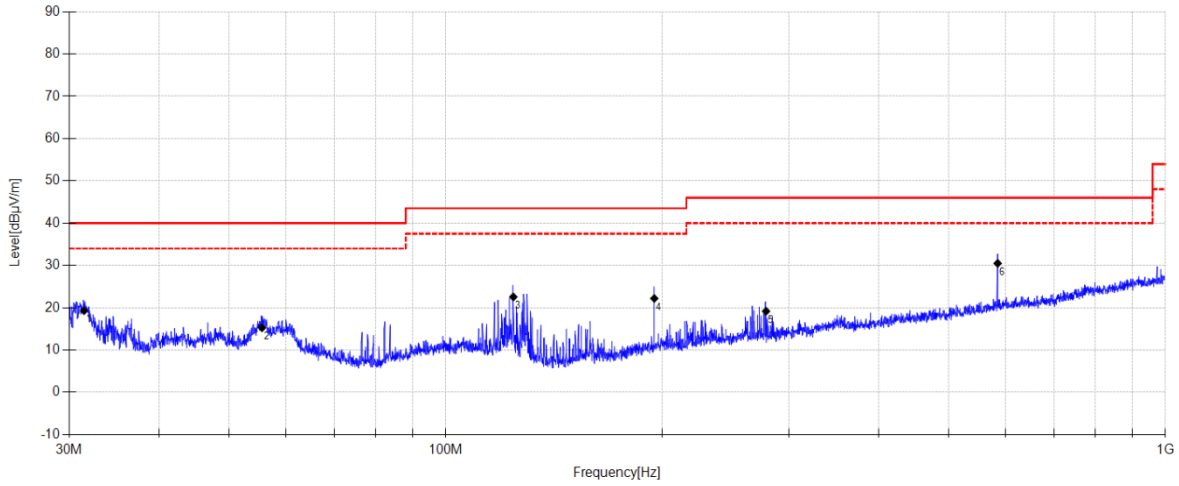
12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-18	**Tested By**:	Zhang Yibo
Test Mode:	TX BLE 1M Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:20.2°C;Humi:48.5%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2026 report data\Q26081718-2E\FCC BELOW 1G\3		
Memo:	Sample Number: S26081718-003		

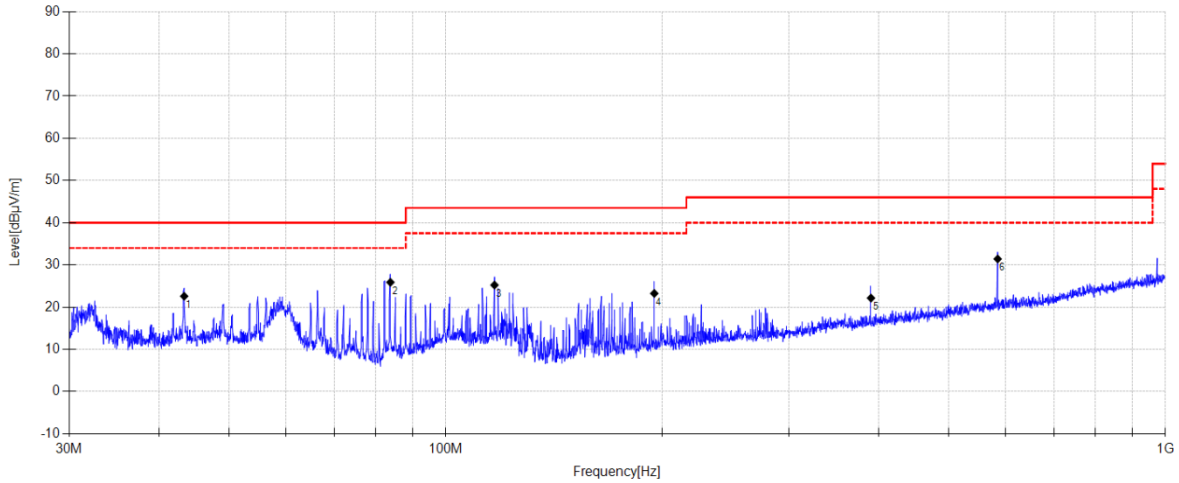


Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	31.443	37.21	10.59	3.80	19.30	40.00	20.70	QP	Horizontal
2	55.564	30.51	13.03	4.02	15.26	40.00	24.74	QP	Horizontal
3	124.185	41.76	8.68	4.44	22.56	43.50	20.94	QP	Horizontal
4	194.927	39.05	10.69	4.85	22.20	43.50	21.30	QP	Horizontal
5	278.724	33.61	12.77	5.19	19.17	46.00	26.83	QP	Horizontal
6	584.852	38.45	18.50	6.35	30.49	46.00	15.51	QP	Horizontal

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-18	**Tested By**:	Zhang Yibo
Test Mode:	TX BLE 1M Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:20.2°C;Humi:48.5%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2026 report data\Q26081718-2E\FCC BELOW 1G\4		
Memo:	Sample Number: S26081718-003		



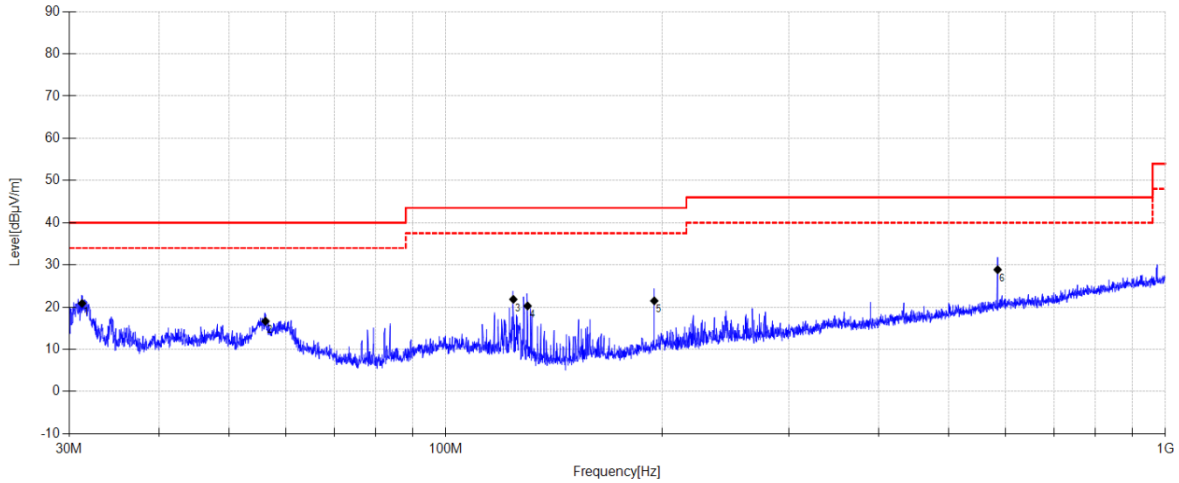
Final Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	43.320	37.29	13.66	3.94	22.59	40.00	17.41	QP	Vertical
2	83.798	45.64	8.34	4.21	25.89	40.00	14.11	QP	Vertical
3	116.918	42.93	10.22	4.40	25.23	43.50	18.27	QP	Vertical
4	194.927	40.09	10.69	4.85	23.24	43.50	20.26	QP	Vertical
5	389.975	33.97	15.00	5.67	22.15	46.00	23.85	QP	Vertical
6	584.852	39.37	18.50	6.35	31.41	46.00	14.59	QP	Vertical

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Zhang Yibo
Test Mode:	TX BLE 2M Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:20.2°C;Humi:48.5%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2026 report data\Q26081718-2E\FCC BELOW 1G\5		
Memo:	Sample Number: S26081718-003		



Final Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	31.245	38.84	10.55	3.80	20.89	40.00	19.11	QP	Horizontal
2	56.190	32.05	12.88	4.03	16.66	40.00	23.34	QP	Horizontal
3	124.185	41.05	8.68	4.44	21.85	43.50	21.65	QP	Horizontal
4	129.976	39.94	8.20	4.47	20.28	43.50	23.22	QP	Horizontal
5	194.927	38.34	10.69	4.85	21.49	43.50	22.01	QP	Horizontal
6	584.852	36.83	18.50	6.35	28.87	46.00	17.13	QP	Horizontal

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Zhang Yibo
Test Mode:	TX BLE 2M Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:20.2°C;Humi:48.5%	**Test Site**:	DDT 3# Chamber
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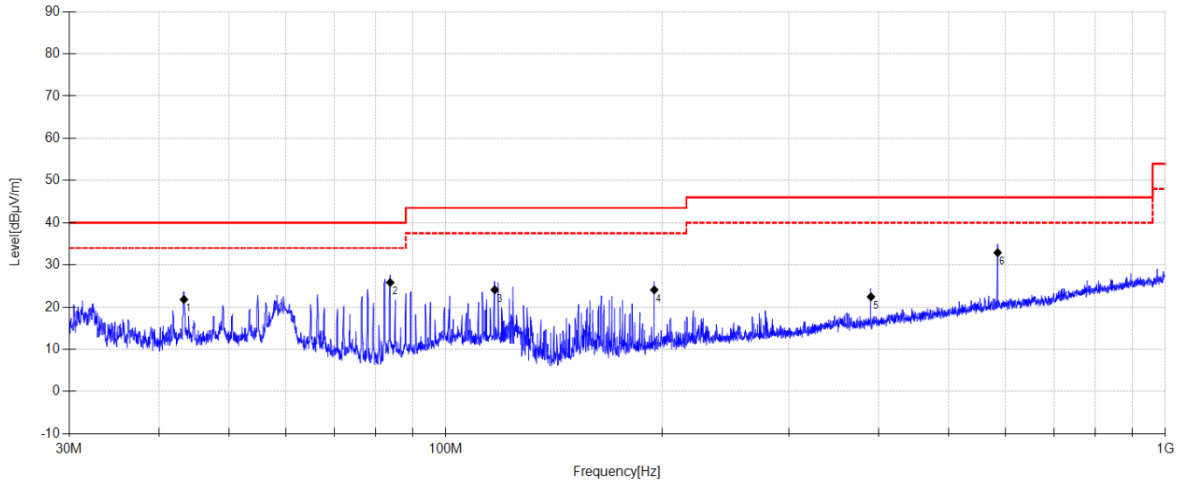
Memo:	Sample Number: S26081718-003		



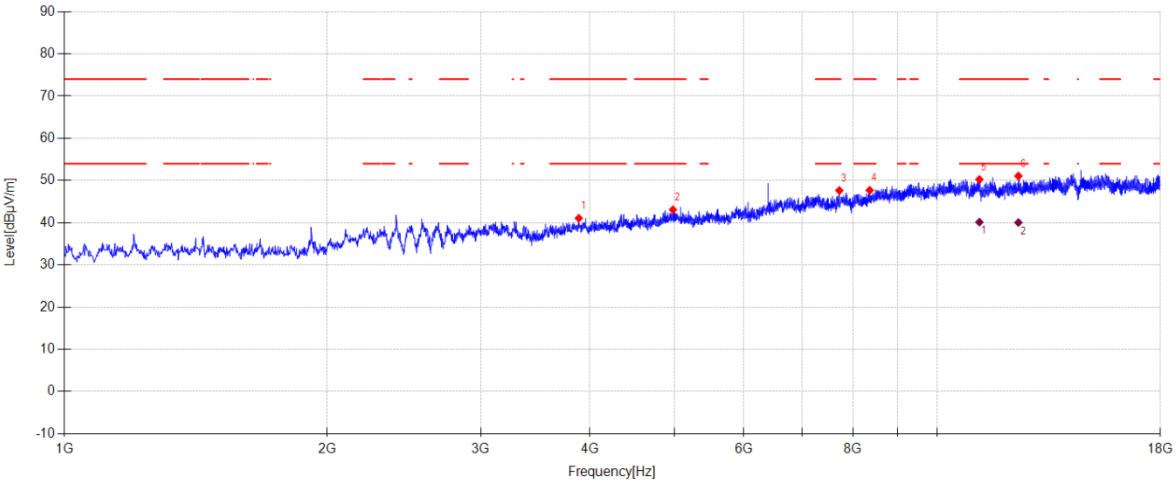
Final Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	43.289	36.52	13.66	3.94	21.82	40.00	18.18	QP	Vertical
2	83.740	45.6	8.32	4.21	25.83	40.00	14.17	QP	Vertical
3	117.000	41.83	10.20	4.40	24.11	43.50	19.39	QP	Vertical
4	194.927	40.94	10.69	4.85	24.09	43.50	19.41	QP	Vertical
5	389.975	34.27	15.00	5.67	22.45	46.00	23.55	QP	Vertical
6	584.852	40.85	18.50	6.35	32.89	46.00	13.11	QP	Vertical

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\1		
Memo:	Sample Number: S26081718-003		



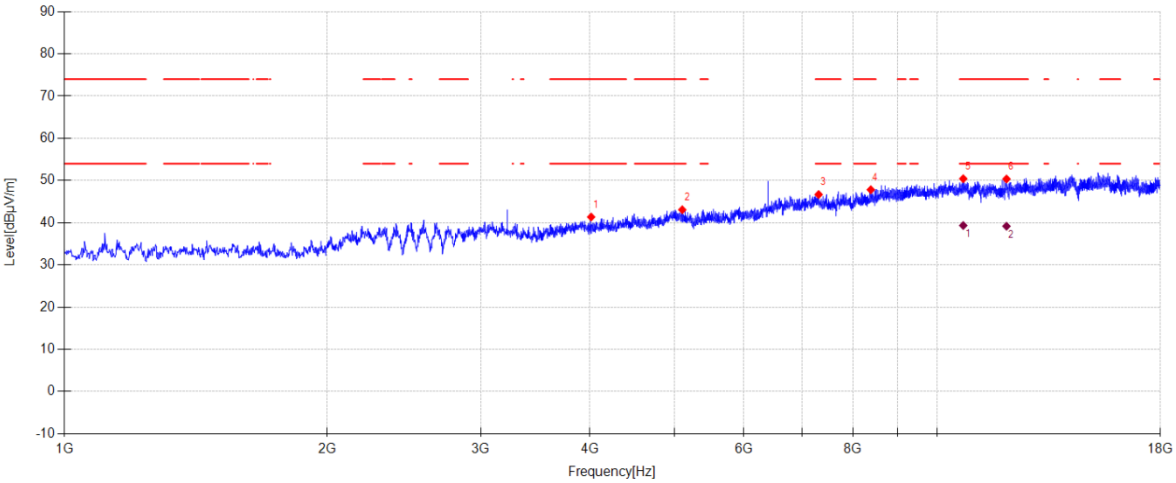
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3883.200	50.34	31.57	-40.84	41.07	74.00	32.93	PK	Horizontal
2	4978.000	50.05	33.81	-40.77	43.09	74.00	30.91	PK	Horizontal
3	7720.100	49.90	37.34	-39.60	47.64	74.00	26.36	PK	Horizontal
4	8362.700	48.70	38.03	-39.04	47.69	74.00	26.31	PK	Horizontal
5	11169.400	45.70	39.84	-35.28	50.26	74.00	23.74	PK	Horizontal
6	12379.800	46.05	39.72	-34.71	51.06	74.00	22.94	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	11169.400	35.58	39.84	-35.28	40.14	54.00	13.86	AV	Horizontal
2	12379.800	35.03	39.72	-34.71	40.04	54.00	13.96	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\2		
Memo:	Sample Number: S26081718-003		



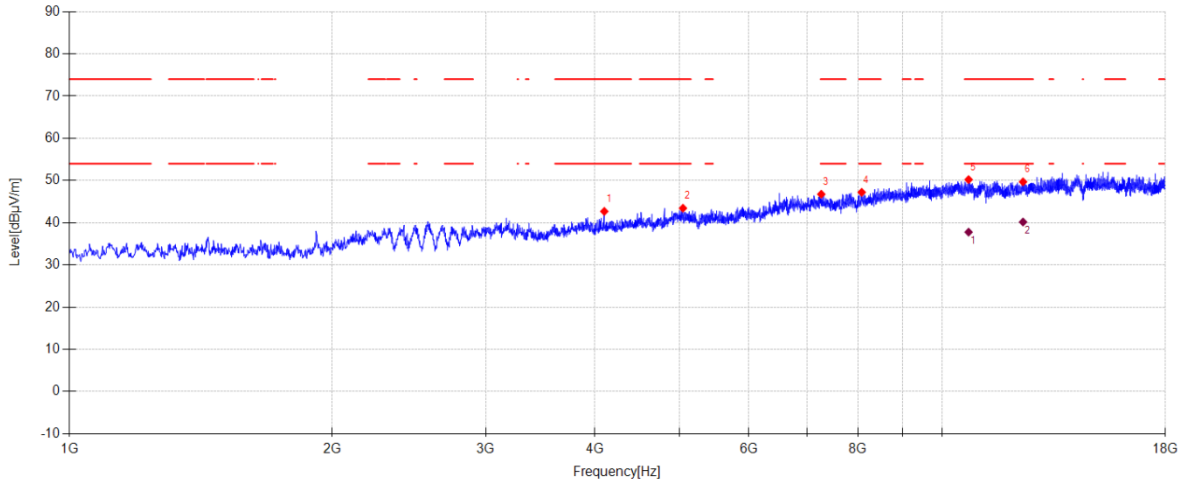
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	4012.400	51.12	31.60	-41.36	41.36	74.00	32.64	PK	Vertical
2	5102.100	50.27	34.00	-41.20	43.07	74.00	30.93	PK	Vertical
3	7310.400	48.71	37.64	-39.67	46.68	74.00	27.32	PK	Vertical
4	8388.200	48.76	38.08	-39.02	47.82	74.00	26.18	PK	Vertical
5	10703.600	46.15	40.00	-35.73	50.42	74.00	23.58	PK	Vertical
6	11997.300	45.27	39.79	-34.70	50.36	74.00	23.64	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	10703.600	35.07	40.00	-35.73	39.34	54.00	14.66	AV	Vertical
2	11997.300	34.08	39.79	-34.70	39.17	54.00	14.83	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2440MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\3		
Memo:	Sample Number: S26081718-003		



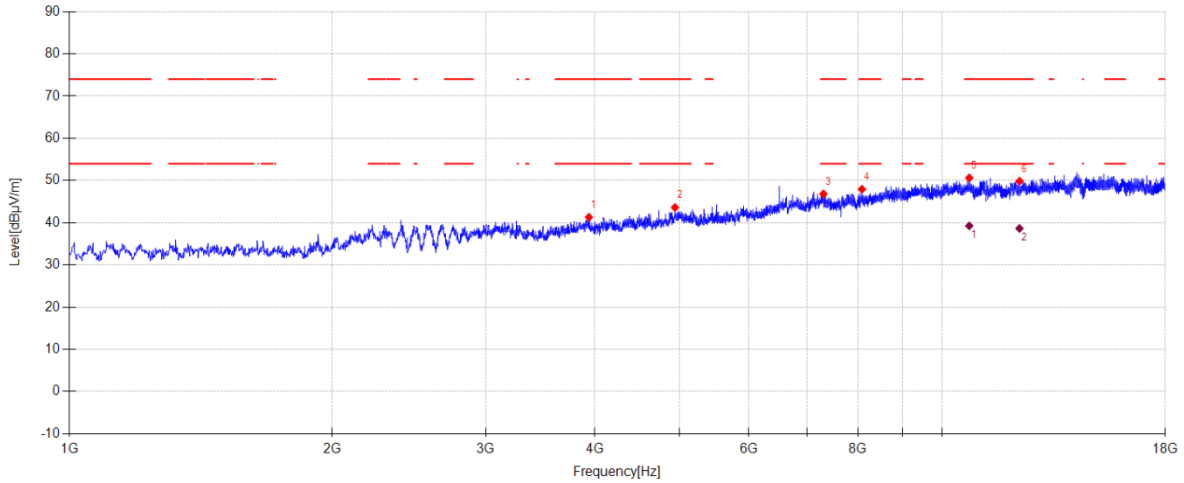
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	4099.100	51.84	31.60	-40.76	42.68	74.00	31.32	PK	Horizontal
2	5044.300	50.34	33.99	-40.89	43.44	74.00	30.56	PK	Horizontal
3	7264.500	48.96	37.77	-39.98	46.75	74.00	27.25	PK	Horizontal
4	8082.200	48.59	37.90	-39.28	47.21	74.00	26.79	PK	Horizontal
5	10713.800	45.90	40.00	-35.69	50.21	74.00	23.79	PK	Horizontal
6	12367.900	44.75	39.73	-34.80	49.68	74.00	24.32	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	10713.800	33.46	40.00	-35.69	37.77	54.00	16.23	AV	Horizontal
2	12367.900	35.24	39.73	-34.80	40.17	54.00	13.83	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2440MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\4		
Memo:	Sample Number: S26081718-003		



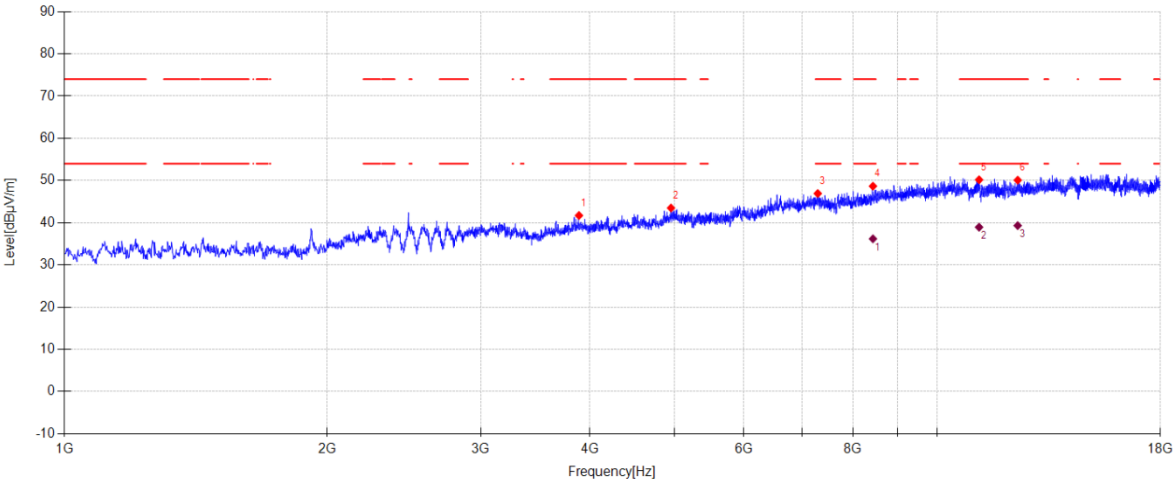
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3935.900	50.66	31.67	-41.03	41.30	74.00	32.70	PK	Vertical
2	4938.900	50.95	33.66	-41.01	43.60	74.00	30.40	PK	Vertical
3	7305.300	48.82	37.67	-39.66	46.83	74.00	27.17	PK	Vertical
4	8087.300	49.28	37.90	-39.25	47.93	74.00	26.07	PK	Vertical
5	10732.500	46.23	40.00	-35.61	50.62	74.00	23.38	PK	Vertical
6	12254.000	45.43	39.85	-35.42	49.86	74.00	24.14	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	10732.500	34.87	40.00	-35.61	39.26	54.00	14.74	AV	Vertical
2	12254.000	34.21	39.85	-35.42	38.64	54.00	15.36	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2480MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\5		
Memo:	Sample Number: S26081718-003		



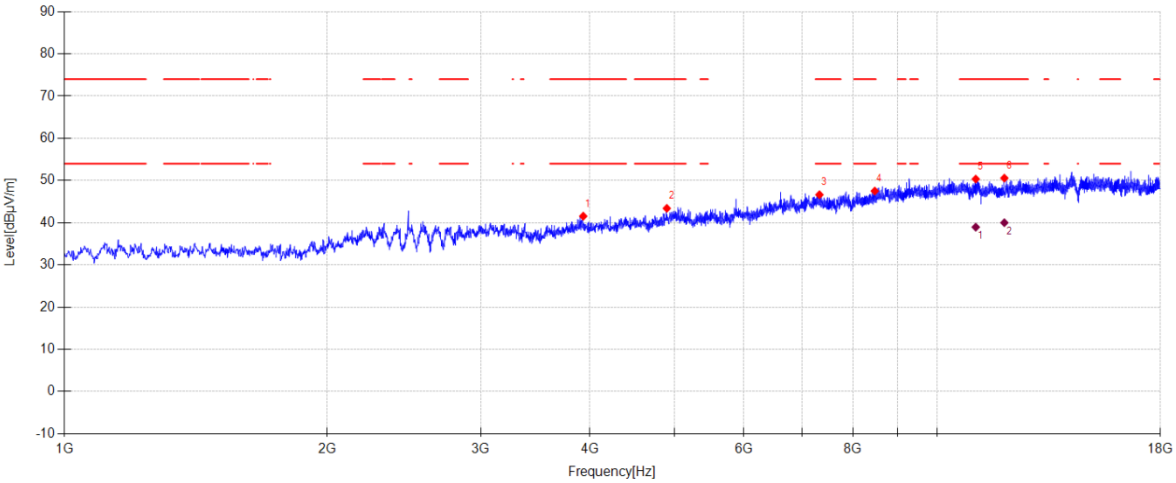
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3884.900	50.97	31.57	-40.83	41.71	74.00	32.29	PK	Horizontal
2	4952.500	50.71	33.71	-40.93	43.49	74.00	30.51	PK	Horizontal
3	7293.400	48.93	37.71	-39.72	46.92	74.00	27.08	PK	Horizontal
4	8435.800	49.35	38.24	-38.93	48.66	74.00	25.34	PK	Horizontal
5	11160.900	45.62	39.82	-35.26	50.18	74.00	23.82	PK	Horizontal
6	12357.700	45.22	39.74	-34.88	50.08	74.00	23.92	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	8435.800	36.88	38.24	-38.93	36.19	54.00	17.81	AV	Horizontal
2	11160.900	34.38	39.82	-35.26	38.94	54.00	15.06	AV	Horizontal
3	12357.700	34.46	39.74	-34.88	39.32	54.00	14.68	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2480MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\6		
Memo:	Sample Number: S26081718-003		



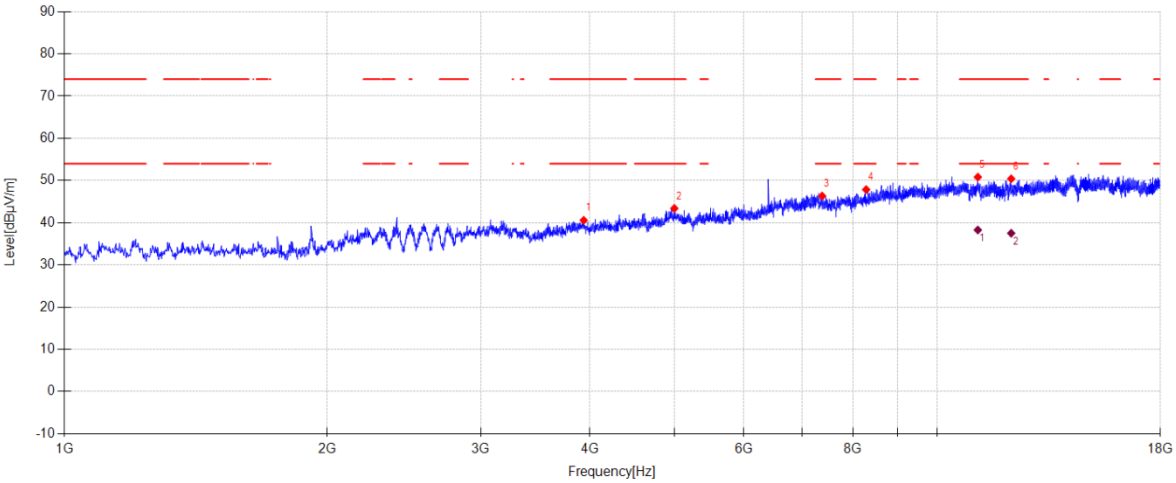
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3929.100	50.88	31.66	-40.99	41.55	74.00	32.45	PK	Vertical
2	4898.100	51.16	33.50	-41.26	43.40	74.00	30.60	PK	Vertical
3	7325.700	48.76	37.55	-39.68	46.63	74.00	27.37	PK	Vertical
4	8476.600	48.05	38.30	-38.84	47.51	74.00	26.49	PK	Vertical
5	11062.300	46.05	39.70	-35.40	50.35	74.00	23.65	PK	Vertical
6	11929.300	46.34	39.66	-35.43	50.57	74.00	23.43	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	11062.300	34.65	39.70	-35.40	38.95	54.00	15.05	AV	Vertical
2	11929.300	35.77	39.66	-35.43	40.00	54.00	14.00	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\11		
Memo:	Sample Number: S26081718-003		



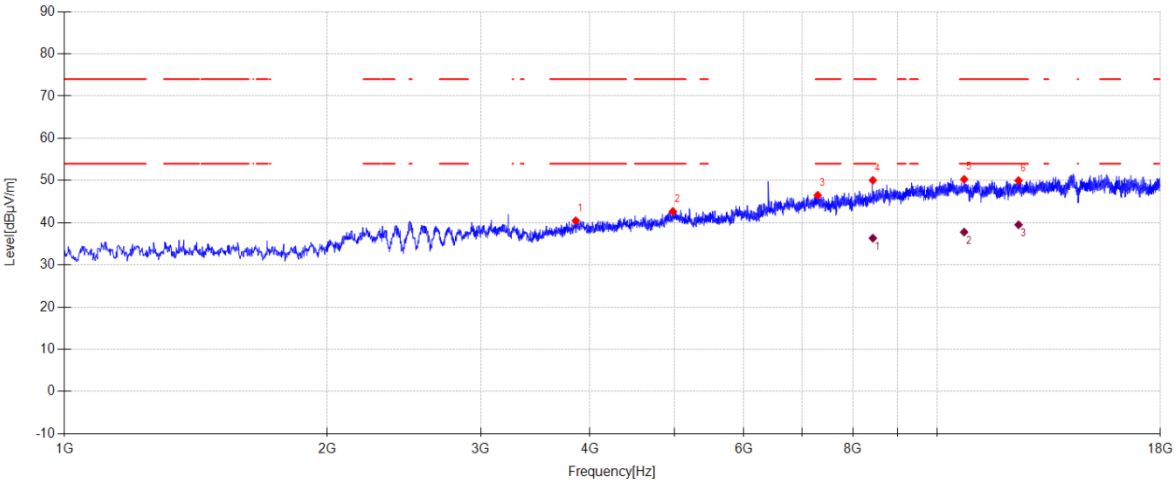
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3934.200	49.94	31.67	-41.02	40.59	74.00	33.41	PK	Horizontal
2	4996.700	50.15	33.89	-40.65	43.39	74.00	30.61	PK	Horizontal
3	7378.400	48.75	37.29	-39.71	46.33	74.00	27.67	PK	Horizontal
4	8286.200	48.98	37.97	-39.10	47.85	74.00	26.15	PK	Horizontal
5	11123.500	46.23	39.75	-35.17	50.81	74.00	23.19	PK	Horizontal
6	12146.900	45.71	39.90	-35.20	50.41	74.00	23.59	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	11123.500	33.70	39.75	-35.17	38.28	54.00	15.72	AV	Horizontal
2	12146.900	32.81	39.90	-35.20	37.51	54.00	16.49	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\12		
Memo:	Sample Number: S26081718-003		



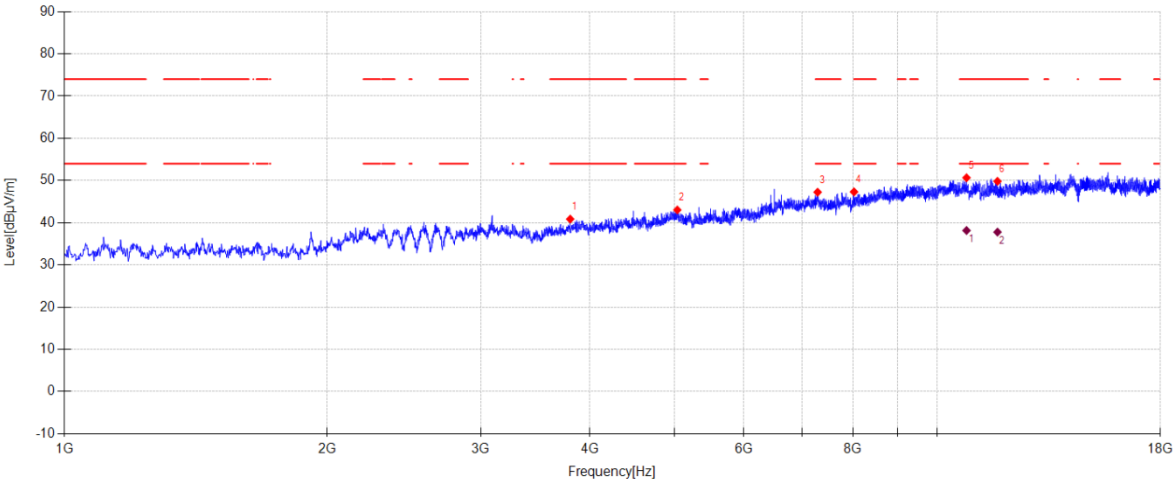
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3852.600	49.87	31.51	-40.90	40.48	74.00	33.52	PK	Vertical
2	4976.300	49.64	33.81	-40.78	42.67	74.00	31.33	PK	Vertical
3	7291.700	48.52	37.72	-39.73	46.51	74.00	27.49	PK	Vertical
4	8434.100	50.74	38.24	-38.93	50.05	74.00	23.95	PK	Vertical
5	10729.100	45.91	40.00	-35.63	50.28	74.00	23.72	PK	Vertical
6	12384.900	44.93	39.72	-34.67	49.98	74.00	24.02	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	8434.100	37.03	38.24	-38.93	36.34	54.00	17.66	AV	Vertical
2	10729.100	33.41	40.00	-35.63	37.78	54.00	16.22	AV	Vertical
3	12384.900	34.46	39.72	-34.67	39.51	54.00	14.49	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2440MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\9		
Memo:	Sample Number: S26081718-003		



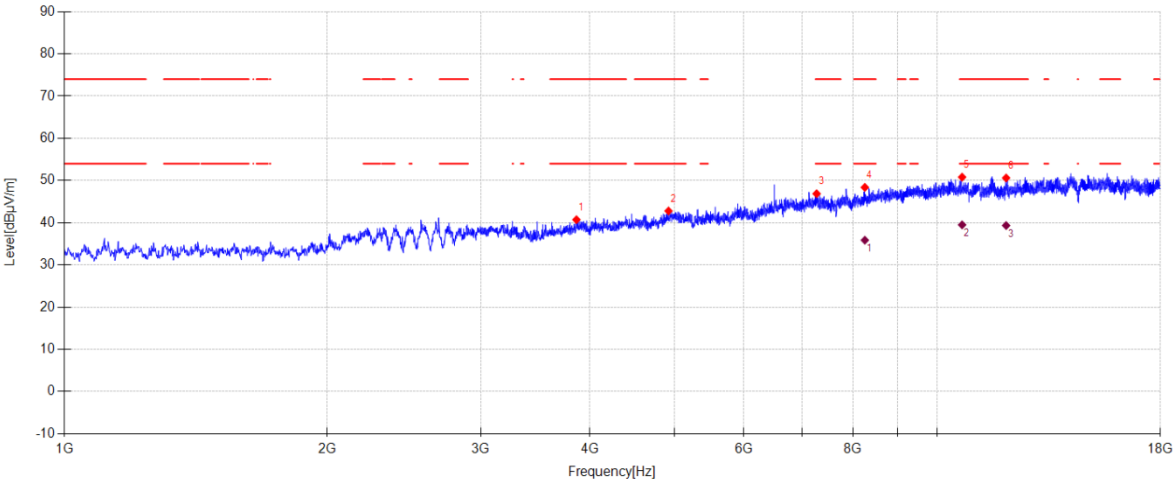
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3796.500	50.70	31.18	-41.02	40.86	74.00	33.14	PK	Horizontal
2	5035.800	49.90	33.97	-40.84	43.03	74.00	30.97	PK	Horizontal
3	7290.000	49.26	37.72	-39.75	47.23	74.00	26.77	PK	Horizontal
4	8026.100	49.00	37.90	-39.59	47.31	74.00	26.69	PK	Horizontal
5	10797.100	46.01	40.00	-35.36	50.65	74.00	23.35	PK	Horizontal
6	11715.100	46.19	39.50	-35.88	49.81	74.00	24.19	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	10797.100	33.52	40.00	-35.36	38.16	54.00	15.84	AV	Horizontal
2	11715.100	34.16	39.50	-35.88	37.78	54.00	16.22	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2440MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\10		
Memo:	Sample Number: S26081718-003		



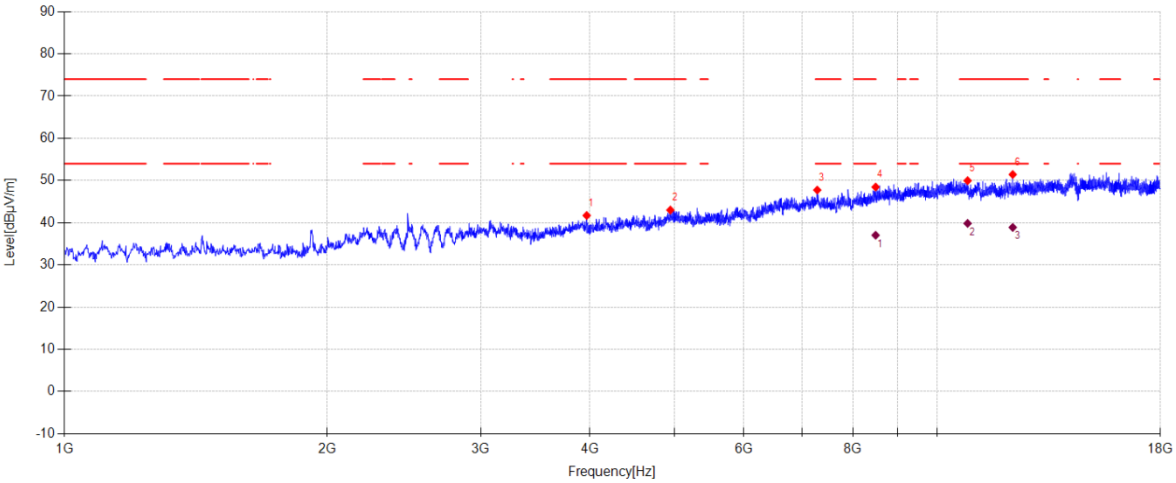
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3859.400	50.09	31.52	-40.89	40.72	74.00	33.28	PK	Vertical
2	4920.200	50.33	33.58	-41.13	42.78	74.00	31.22	PK	Vertical
3	7271.300	49.03	37.76	-39.92	46.87	74.00	27.13	PK	Vertical
4	8257.300	49.59	37.91	-39.12	48.38	74.00	25.62	PK	Vertical
5	10671.300	46.66	39.94	-35.80	50.80	74.00	23.20	PK	Vertical
6	11985.400	45.67	39.77	-34.83	50.61	74.00	23.39	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	8257.300	37.08	37.91	-39.12	35.87	54.00	18.13	AV	Vertical
2	10671.300	35.35	39.94	-35.80	39.49	54.00	14.51	AV	Vertical
3	11985.400	34.40	39.77	-34.83	39.34	54.00	14.66	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2478MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\7		
Memo:	Sample Number: S26081718-003		



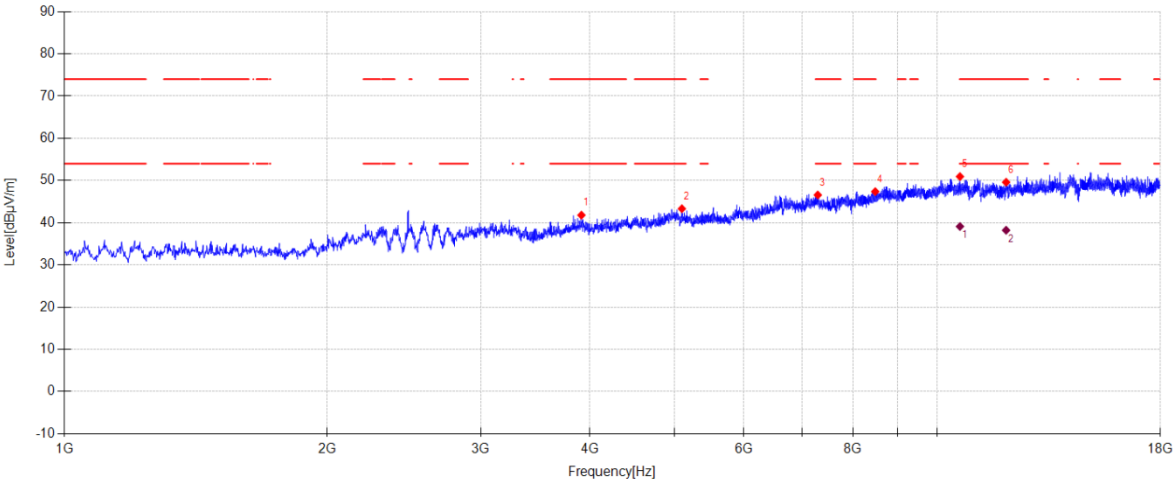
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3964.800	51.26	31.67	-41.22	41.71	74.00	32.29	PK	Horizontal
2	4944.000	50.30	33.68	-40.98	43.00	74.00	31.00	PK	Horizontal
3	7283.200	49.82	37.73	-39.81	47.74	74.00	26.26	PK	Horizontal
4	8495.300	48.96	38.30	-38.80	48.46	74.00	25.54	PK	Horizontal
5	10827.700	45.51	39.97	-35.52	49.96	74.00	24.04	PK	Horizontal
6	12196.200	47.03	39.90	-35.51	51.42	74.00	22.58	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	8495.300	37.54	38.30	-38.80	37.04	54.00	16.96	AV	Horizontal
2	10827.700	35.39	39.97	-35.52	39.84	54.00	14.16	AV	Horizontal
3	12196.200	34.50	39.90	-35.51	38.89	54.00	15.11	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2478MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\8		
Memo:	Sample Number: S26081718-003		



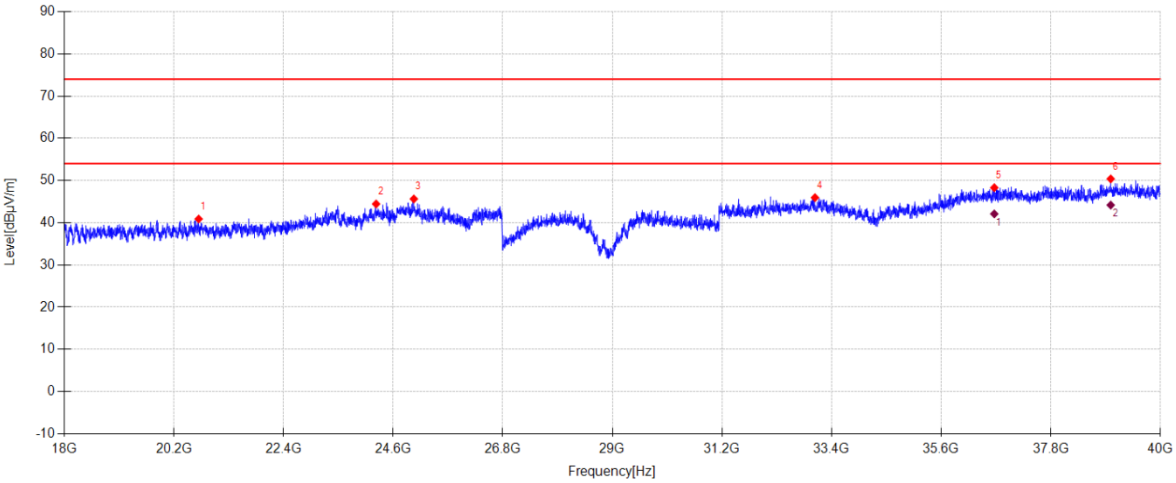
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3910.400	51.04	31.62	-40.87	41.79	74.00	32.21	PK	Vertical
2	5097.000	50.50	34.00	-41.19	43.31	74.00	30.69	PK	Vertical
3	7293.400	48.58	37.71	-39.72	46.57	74.00	27.43	PK	Vertical
4	8486.800	47.90	38.30	-38.82	47.38	74.00	26.62	PK	Vertical
5	10611.800	47.03	39.82	-35.92	50.93	74.00	23.07	PK	Vertical
6	11985.400	44.65	39.77	-34.83	49.59	74.00	24.41	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	10611.800	35.21	39.82	-35.92	39.11	54.00	14.89	AV	Vertical
2	11985.400	33.28	39.77	-34.83	38.22	54.00	15.78	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-21	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\21		
Memo:	Sample Number: S26081718-003		



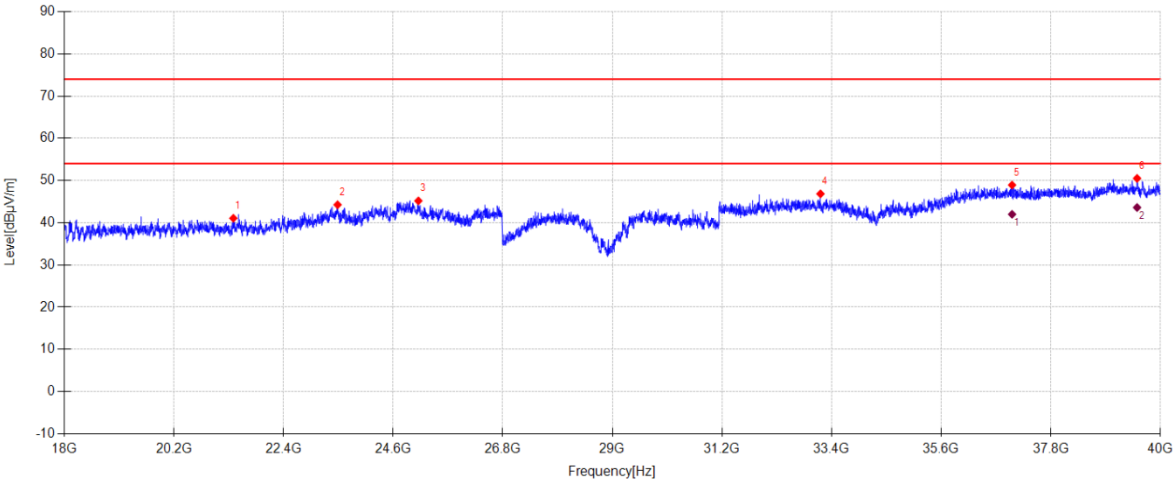
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	20696.618	49.07	38.31	3.78	40.89	74.00	33.11	PK	Horizontal
2	24258.088	50.71	39.23	4.56	44.44	74.00	29.56	PK	Horizontal
3	25015.505	51.13	39.60	4.75	45.64	74.00	28.36	PK	Horizontal
4	33067.757	47.00	41.63	5.38	45.95	74.00	28.05	PK	Horizontal
5	36666.829	48.39	42.87	6.31	48.30	74.00	25.70	PK	Horizontal
6	39003.540	47.84	45.90	6.59	50.38	74.00	23.62	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	36666.829	42.18	42.87	6.31	42.09	54.00	11.91	AV	Horizontal
2	39003.540	41.64	45.90	6.59	44.18	54.00	9.82	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-21	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\22		
Memo:	Sample Number: S26081718-003		



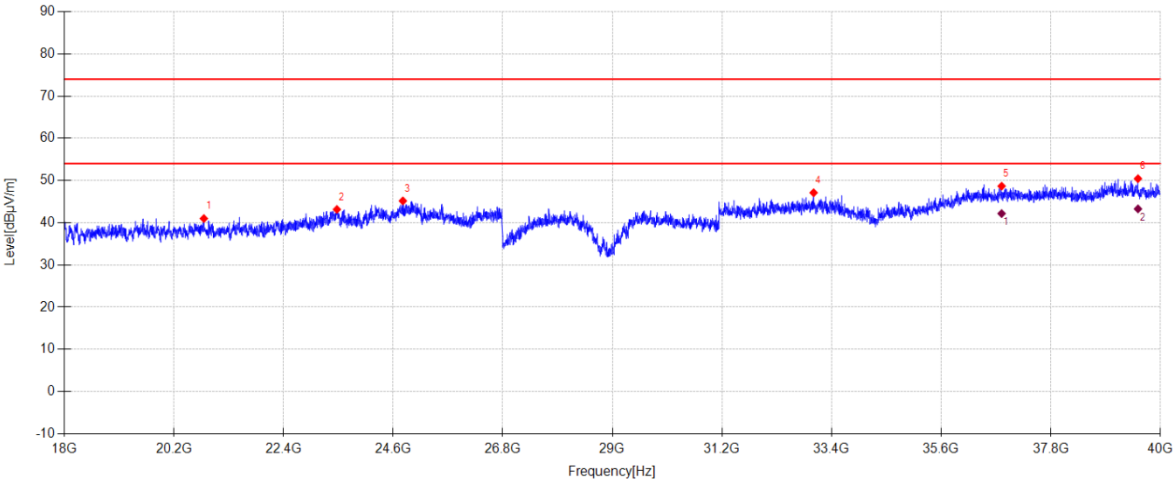
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	21392.260	49.58	38.44	3.85	41.06	74.00	32.94	PK	Vertical
2	23484.556	51.17	39.20	4.69	44.25	74.00	29.75	PK	Vertical
3	25106.825	50.69	39.57	4.78	45.18	74.00	28.82	PK	Vertical
4	33177.878	48.01	41.67	5.42	46.84	74.00	27.16	PK	Vertical
5	37024.051	49.34	42.92	5.99	48.92	74.00	25.08	PK	Vertical
6	39532.658	48.28	46.33	6.63	50.50	74.00	23.50	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	37024.051	42.42	42.92	5.99	42.00	54.00	12.00	AV	Vertical
2	39532.658	41.38	46.33	6.63	43.60	54.00	10.40	AV	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-21	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\23		
Memo:	Sample Number: S26081718-003		



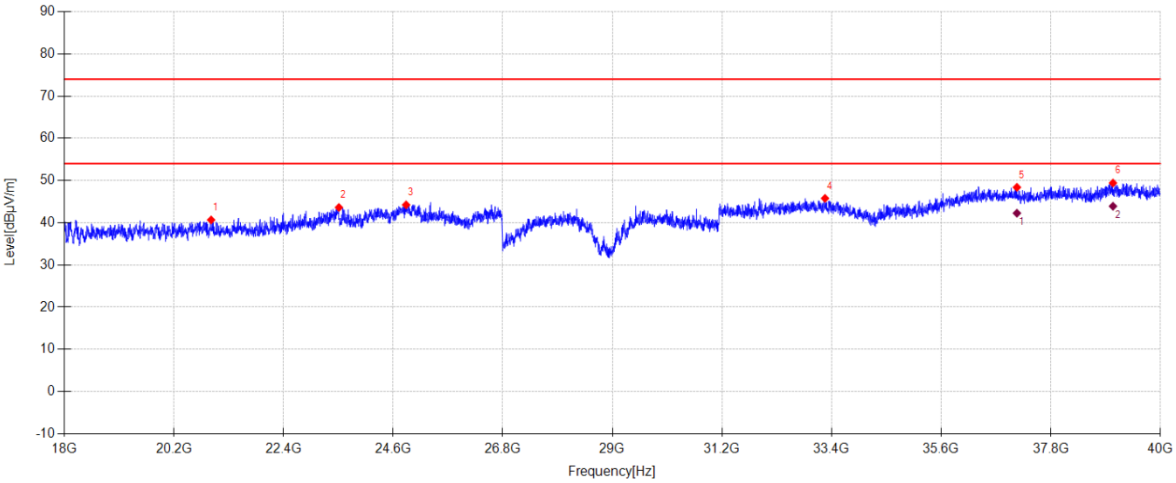
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	20801.367	49.27	38.34	3.74	40.99	74.00	33.01	PK	Horizontal
2	23471.127	50.08	39.21	4.69	43.15	74.00	30.85	PK	Horizontal
3	24795.263	50.87	39.50	4.70	45.17	74.00	28.83	PK	Horizontal
4	33040.899	48.12	41.62	5.37	47.10	74.00	26.90	PK	Horizontal
5	36814.553	48.90	42.88	6.19	48.67	74.00	25.33	PK	Horizontal
6	39551.459	48.26	46.34	6.61	50.44	74.00	23.56	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	36814.553	42.40	42.88	6.19	42.17	54.00	11.83	AV	Horizontal
2	39551.459	41.09	46.34	6.61	43.27	54.00	10.73	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-21	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\24		
Memo:	Sample Number: S26081718-003		



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	20946.405	49.09	38.38	3.68	40.66	74.00	33.34	PK	Vertical
2	23511.415	50.50	39.20	4.69	43.61	74.00	30.39	PK	Vertical
3	24859.724	49.86	39.53	4.72	44.23	74.00	29.77	PK	Vertical
4	33269.198	47.03	41.71	5.45	45.77	74.00	28.23	PK	Vertical
5	37120.742	48.86	43.02	5.80	48.38	74.00	25.62	PK	Vertical
6	39049.200	46.88	45.94	6.60	49.41	74.00	24.59	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	37120.742	42.74	43.02	5.80	42.26	54.00	11.74	AV	Vertical
2	39049.200	41.37	45.94	6.60	43.90	54.00	10.10	AV	Vertical

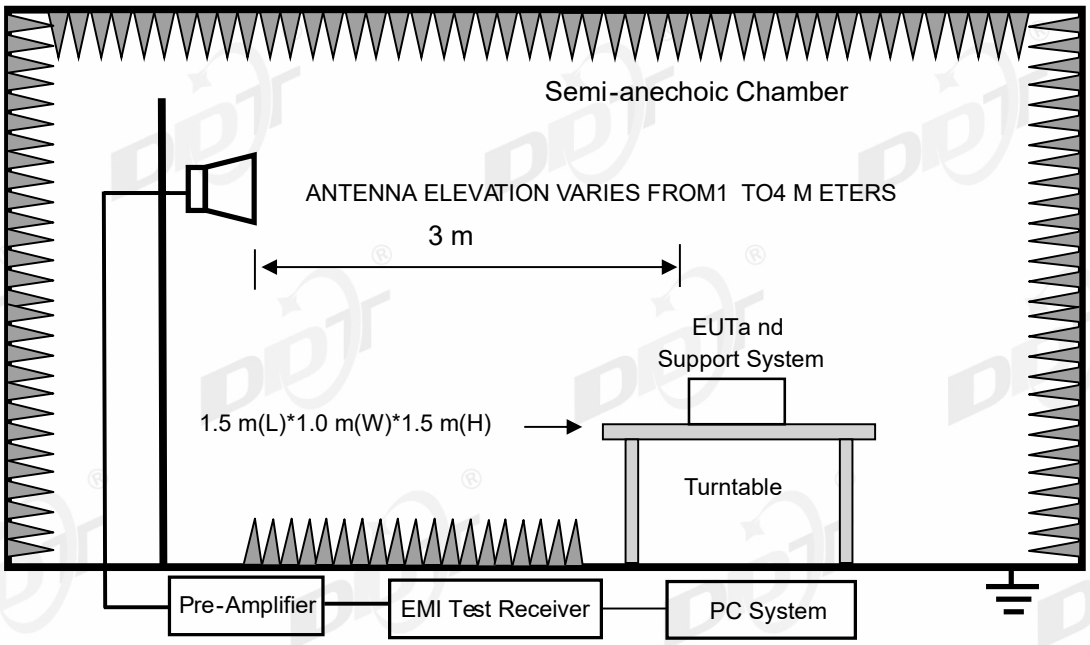
Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Signal &Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2027/07/10
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2027/06/25
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE（V5.0.0）	DDT-ZC06466	/

13.2. Block diagram of test setup



13.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

13.5. Test procedure

Same with Radiated Emission except change investigated frequency range.
Remark: All restriction band have been tested, and only the worst case is shown in report.

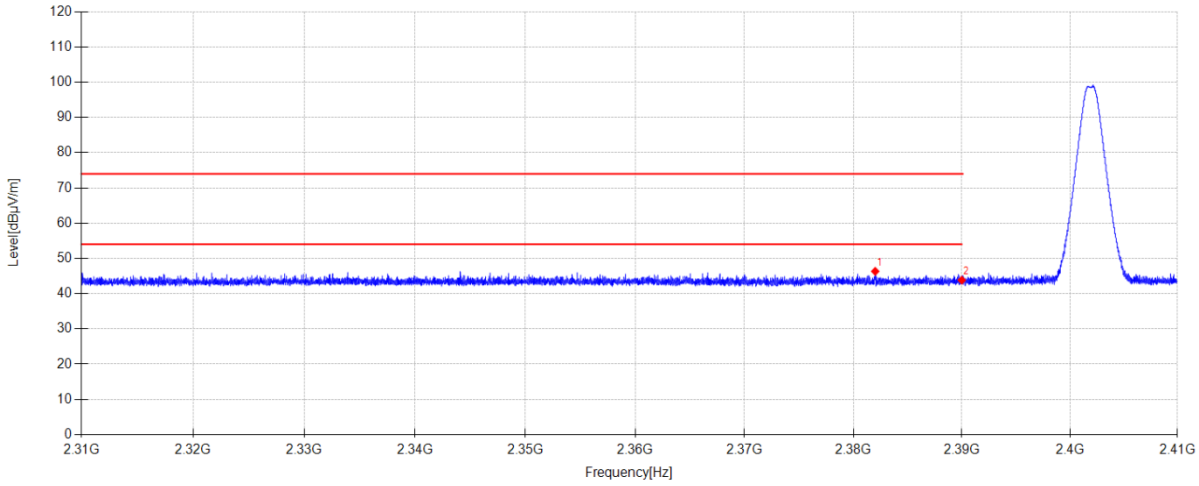
13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\13		
Memo:	Sample Number: S26081718-003		

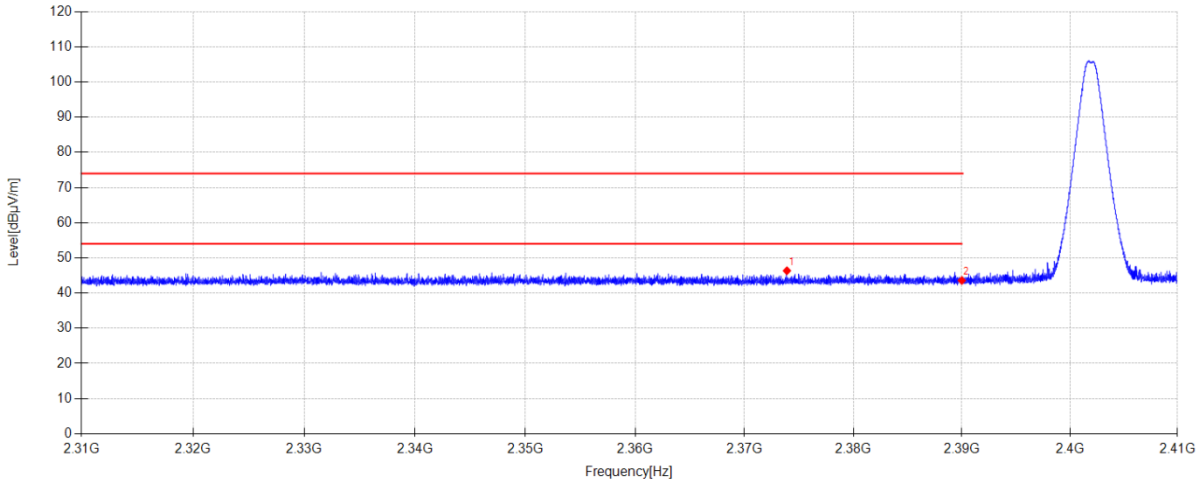


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2382.010	44.31	28.16	-26.14	46.33	74.00	27.67	PK	Horizontal
2	2390.000	41.80	28.18	-26.15	43.83	74.00	30.17	PK	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2402MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\14		
Memo:	Sample Number: S26081718-003		

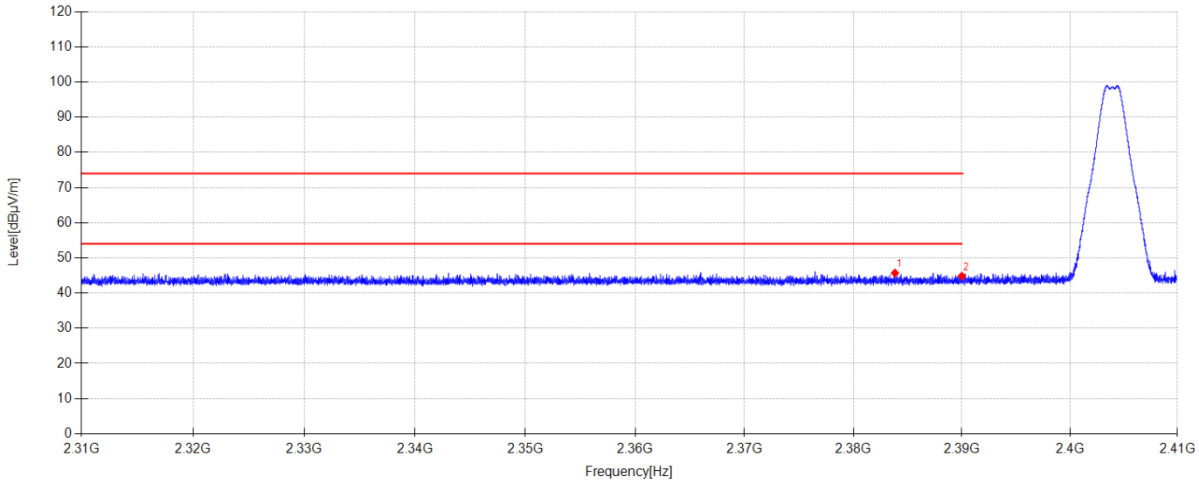


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2373.890	44.34	28.15	-26.14	46.35	74.00	27.65	PK	Vertical
2	2390.000	41.56	28.18	-26.15	43.59	74.00	30.41	PK	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\19		
Memo:	Sample Number: S26081718-003		

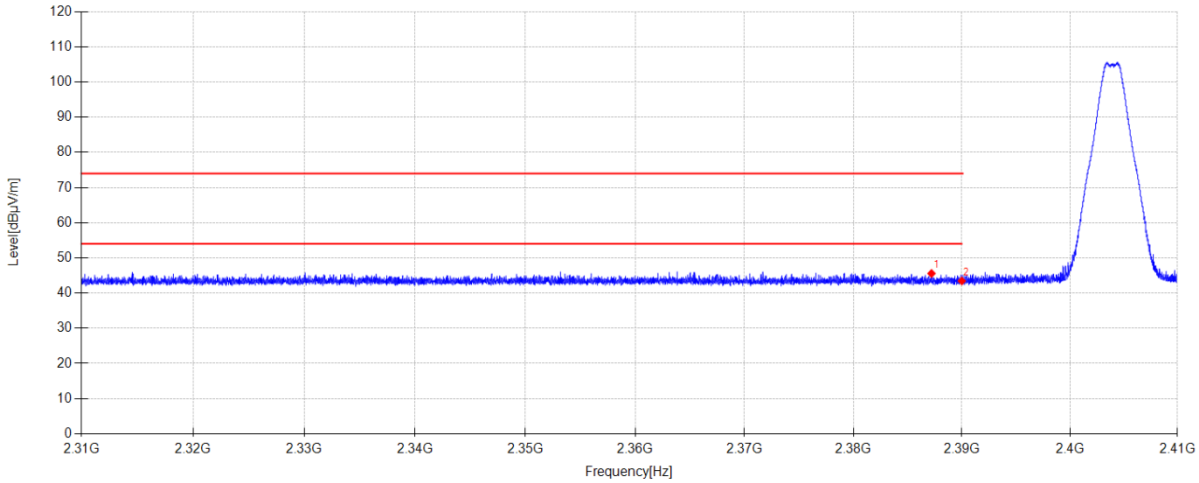


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2383.830	43.67	28.17	-26.15	45.69	74.00	28.31	PK	Horizontal
2	2390.000	42.79	28.18	-26.15	44.82	74.00	29.18	PK	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2404MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\20		
Memo:	Sample Number: S26081718-003		

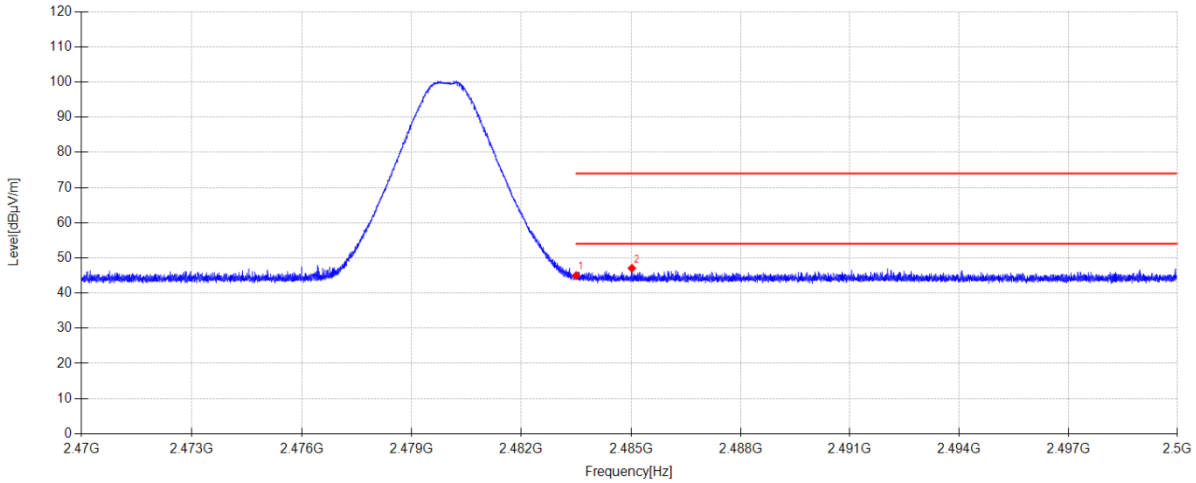


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2387.200	43.55	28.17	-26.15	45.57	74.00	28.43	PK	Vertical
2	2390.000	41.41	28.18	-26.15	43.44	74.00	30.56	PK	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2480MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\15		
Memo:	Sample Number: S26081718-003		

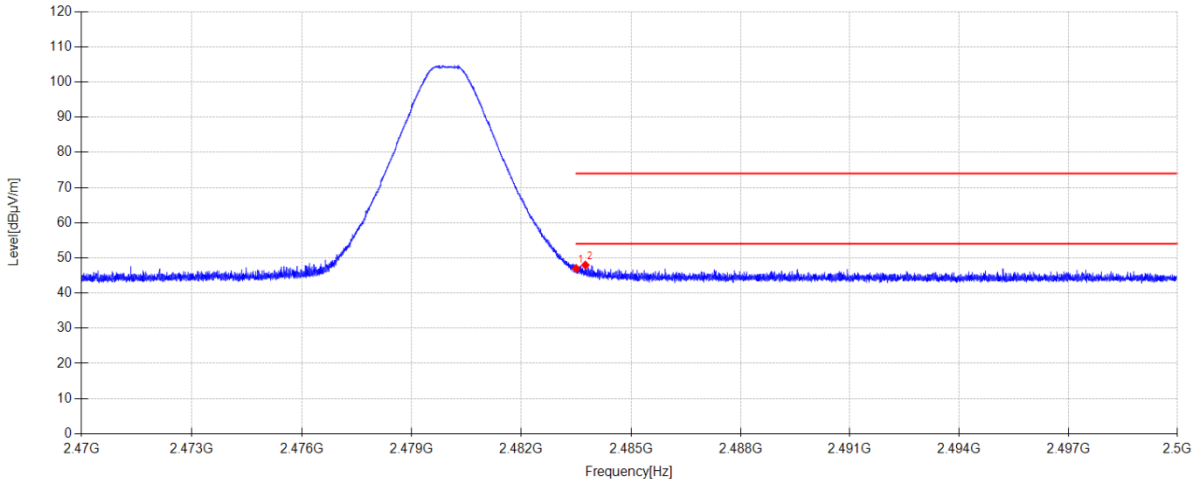


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	42.53	28.60	-26.14	44.99	74.00	29.01	PK	Horizontal
2	2485.024	44.59	28.61	-26.14	47.06	74.00	26.94	PK	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 1M 2480MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\16		
Memo:	Sample Number: S26081718-003		

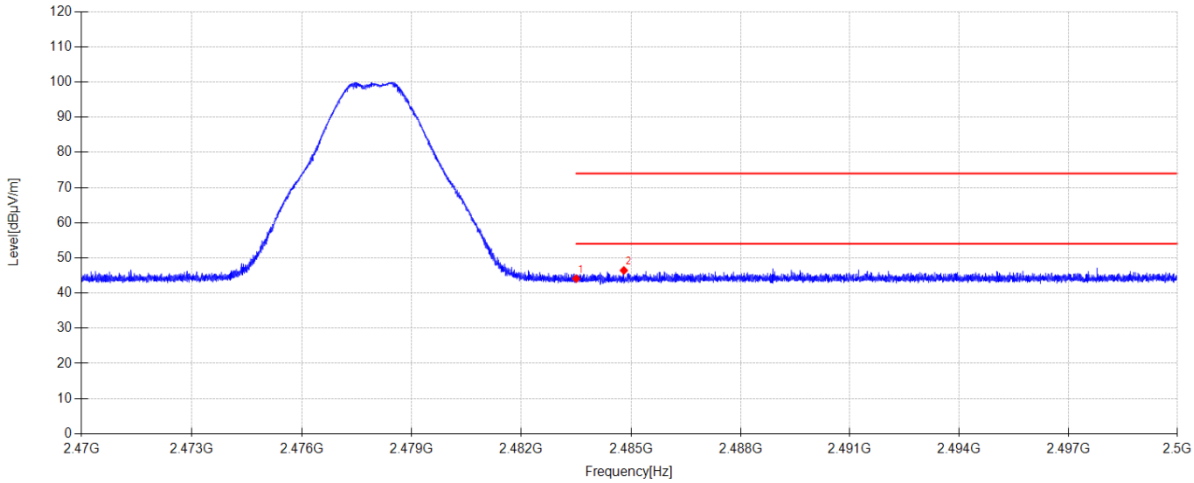


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	44.56	28.60	-26.14	47.02	74.00	26.98	PK	Vertical
2	2483.752	45.52	28.60	-26.14	47.98	74.00	26.02	PK	Vertical

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2478MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\17		
Memo:	Sample Number: S26081718-003		

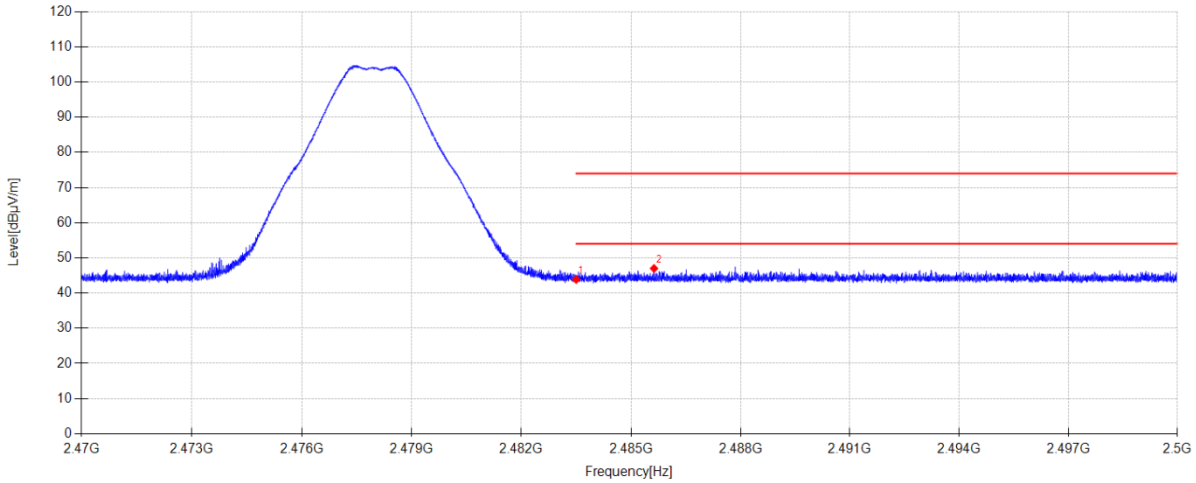


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	41.65	28.60	-26.14	44.11	74.00	29.89	PK	Horizontal
2	2484.805	43.96	28.61	-26.14	46.43	74.00	27.57	PK	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:	2026-08-19	**Tested By**:	Cao Jie
Test Mode:	TX BLE 2M 2478MHz Mode	**Power Supply**:	AC 120V/60Hz
Condition:	Temp:24.7°C;Humi:45.0%	**Test Site**:	4# Fully Anechoic Room
File Path:	d:\ts\2026 fcc report date\Q26081718-2E\FCC ABOVE 1G BLE\18		
Memo:	Sample Number: S26081718-003		



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	41.39	28.60	-26.14	43.85	74.00	30.15	PK	Vertical
2	2485.630	44.52	28.61	-26.14	46.99	74.00	27.01	PK	Vertical

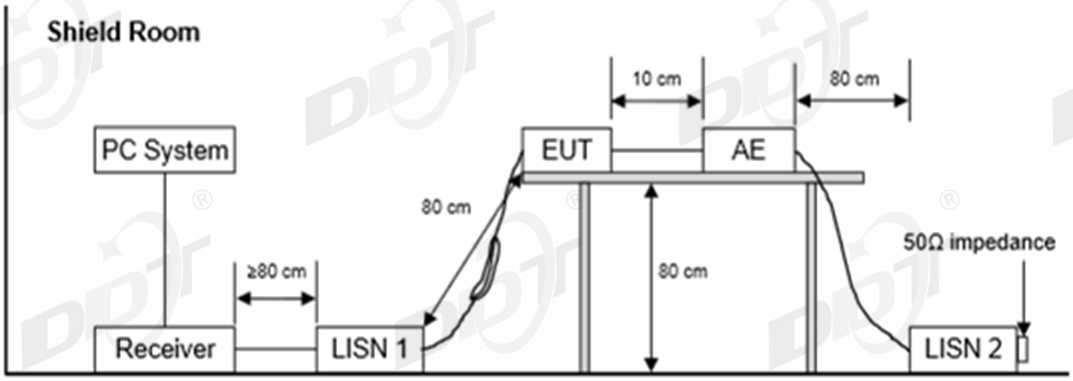
Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI 3	DDT-ZC00235	2027/06/10
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2027/06/14
Pulse Limiter	SCHWARZBECK	ESH3-Z2	DDT-ZC00539	2027/06/10
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2027/06/21
Conducted & Radiated Software	Audix	e3	DDT-ZC00562	/
Two-line V-shaped artificial network	ROHDE&SCHWARZ	ENV216	DDT-ZC05693	2026/11/04
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2027/06/09

14.2. Block diagram of test setup



14.3. Limits

Frequency	Quasi-Peak Level dB(uV)	Average Level dB(uV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "-----" means Peak detection; "-----" means Average detection.

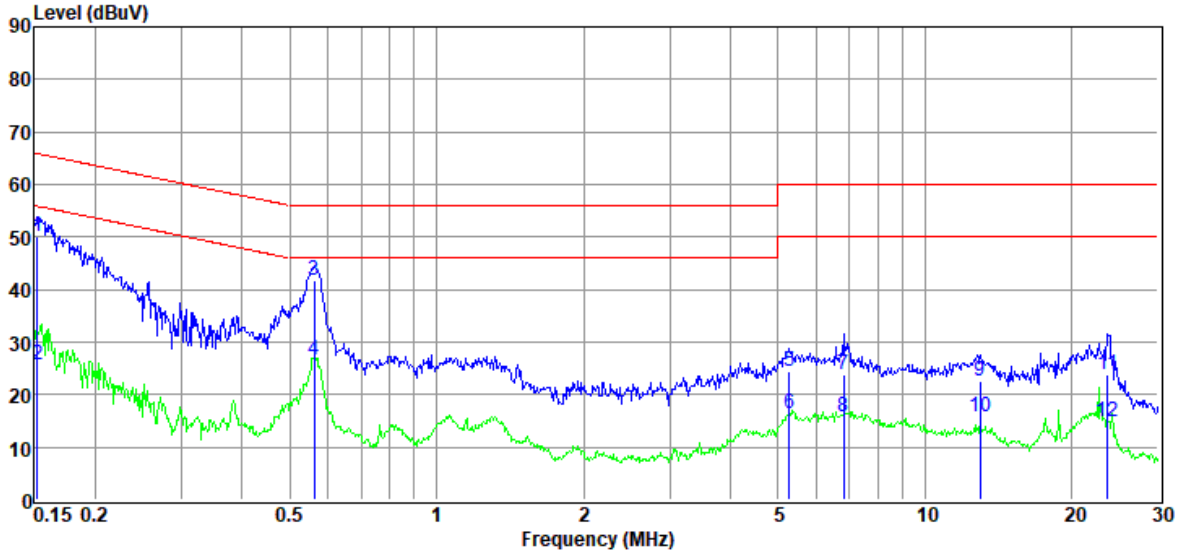
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2026 CE Report Data\Q26081718-2E\0822 CE\0822 CE.EM6	
Test Date	: 2026-08-22	**Tested By**	: Zhang Yibo
EUT	: WIRELESS SPEAKER	**Model Number**	: LIORA
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: TEMP:24.5°C, RH:65.5%	**LISN**	: 2026 1# ENV 216/LINE
Memo	: Sample Number: S26081718-003		

Data: 2



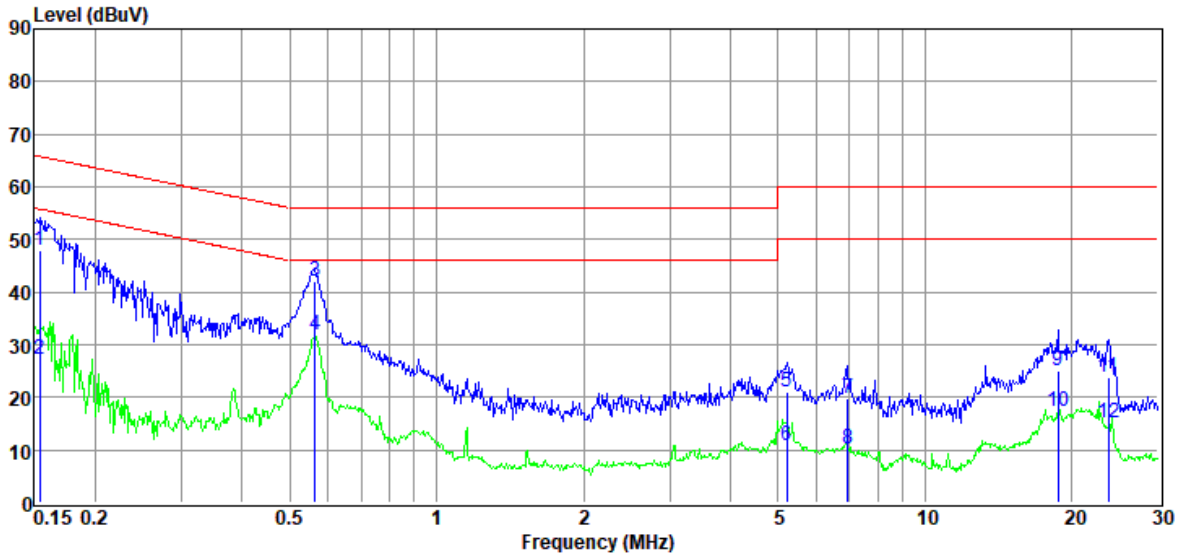
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Margin (dB)	Detector	Phase
1	0.15	30.62	9.58	0.00	9.86	50.06	65.87	15.81	QP	LINE
2	0.15	6.25	9.58	0.00	9.86	25.69	55.87	30.18	Average	LINE
3	0.56	22.33	9.58	0.00	9.87	41.78	56.00	14.22	QP	LINE
4	0.56	7.21	9.58	0.00	9.87	26.66	46.00	19.34	Average	LINE
5	5.28	4.91	9.62	0.01	9.88	24.42	60.00	35.58	QP	LINE
6	5.28	-2.99	9.62	0.01	9.88	16.52	50.00	33.48	Average	LINE
7	6.81	4.36	9.63	0.03	9.88	23.90	60.00	36.10	QP	LINE
8	6.81	-3.82	9.63	0.03	9.88	15.72	50.00	34.28	Average	LINE
9	12.99	2.90	9.82	0.07	9.91	22.70	60.00	37.30	QP	LINE
10	12.99	-3.96	9.82	0.07	9.91	15.84	50.00	34.16	Average	LINE
11	23.64	3.76	10.10	0.10	9.96	23.92	60.00	36.08	QP	LINE
12	23.64	-5.43	10.10	0.10	9.96	14.73	50.00	35.27	Average	LINE

Note:
1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2026 CE Report Data\Q26081718-2E\0822 CE\0822 CE.EM6	
Test Date	: 2026-08-22	**Tested By**	: Zhang Yibo
EUT	: WIRELESS SPEAKER	**Model Number**	: LIORA
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: TEMP:24.5°C, RH:65.5%	**LISN**	: 2026 1# ENV 216/NEUTRAL
Memo	: Sample Number: S26081718-003		

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Margin (dB)	Detector	Phase
1	0.15	28.58	9.61	0.00	9.86	48.05	65.78	17.73	QP	NEUTRAL
2	0.15	7.82	9.61	0.00	9.86	27.29	55.78	28.49	Average	NEUTRAL
3	0.56	22.48	9.59	0.00	9.87	41.94	56.00	14.06	QP	NEUTRAL
4	0.56	12.44	9.59	0.00	9.87	31.90	46.00	14.10	Average	NEUTRAL
5	5.22	1.49	9.66	0.01	9.88	21.04	60.00	38.96	QP	NEUTRAL
6	5.22	-8.82	9.66	0.01	9.88	10.73	50.00	39.27	Average	NEUTRAL
7	6.95	0.11	9.68	0.03	9.88	19.70	60.00	40.30	QP	NEUTRAL
8	6.95	-9.30	9.68	0.03	9.88	10.29	50.00	39.71	Average	NEUTRAL
9	18.72	4.77	10.11	0.09	9.94	24.91	60.00	35.09	QP	NEUTRAL
10	18.72	-2.86	10.11	0.09	9.94	17.28	50.00	32.72	Average	NEUTRAL
11	23.76	3.57	10.21	0.10	9.96	23.84	60.00	36.16	QP	NEUTRAL
12	23.76	-5.15	10.21	0.10	9.96	15.12	50.00	34.88	Average	NEUTRAL

Note:
1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

16. Photos of the EUT

Please refer to DDT-Q26081718-1E appendix Ⅰ

----------End Report----------