FCC Test Report

APPLICANT	:	**Barking Labs Corp.**
EQUIPMENT	:	**Fi Smart Collar Series 3+**
BRAND NAME	:	**Fi**
MODEL NAME	:	**FC3B**
FCC ID	:	**2ARXN-FC3B**
STANDARD	:	**47 CFR Part 15 Subpart B**
CLASSIFICATION	:	**Certification**
TEST DATE(S)	:	**Apr. 22, 2025 ~ May 08, 2025**

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC540712	Rev. 01	Initial issue of report	May 15, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.54 dB at 0.502 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.84 dB at 45.76 MHz

Conformity Assessment Condition:
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section “Measurement Uncertainty”.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1. General Description

1.1. Applicant

Barking Labs Corp.
419 Lafayette St., Floor 2, New York, NY 10003

1.2. Manufacturer

Barking Labs Corp.
419 Lafayette St., Floor 2, New York, NY 10003

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Fi Smart Collar Series 3+
Brand Name	Fi
Model Name	FC3B
FCC ID	2ARXN-FC3B
EUT supports Radios application	LTE Category M1 WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth LE GNSS/WPC
SN Code	Conduction: BL06-D1-009(A) Radiation: BL06-D1-009(A)
HW Version	1
SW Version	v4.18
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 12 : 699 MHz ~ 716 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 12 : 729 MHz ~ 746 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz WPC: 110kHz~ 145 kHz
Antenna Type	WWAN : Inverted-F Antenna (LDS) WLAN : Inverted-F Antenna (LDS) Bluetooth : Inverted-F Antenna (LDS) GNSS : Inverted-F Antenna (LDS) WPC : Loop Antenna
Type of Modulation	LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK GNSS : BPSK WPC: ASK

Note: The device supports WPC RX only.

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH04-KS	CN1257	314309

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

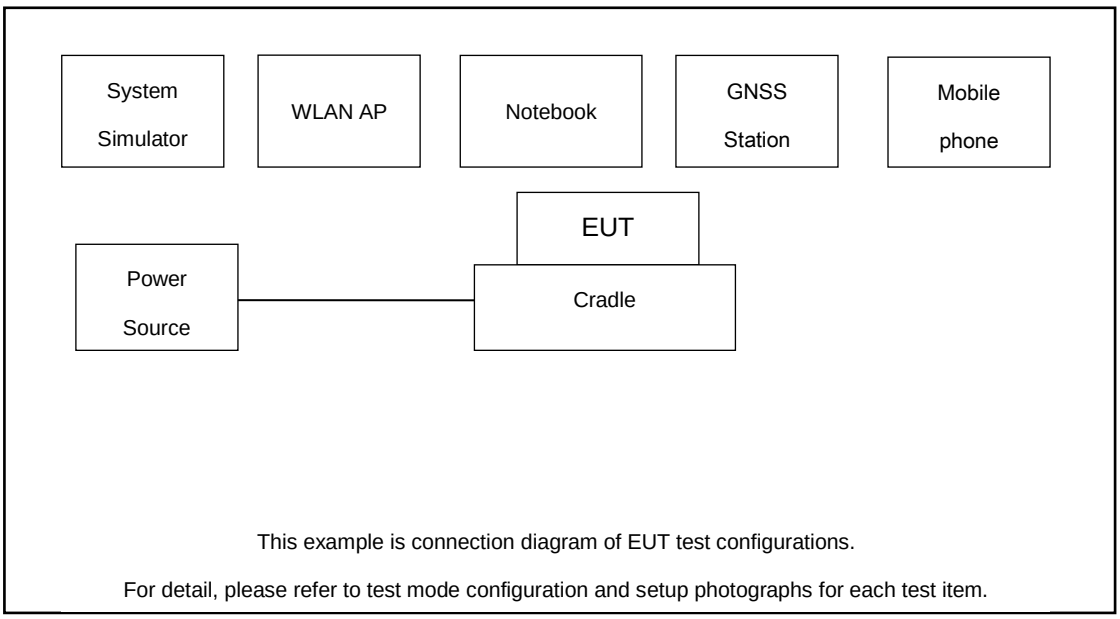
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: Bluetooth Idle + GNSS RX + Battery + WPC(Charging from Cradle with Adapter) Mode 2: WLAN (2.4G) Idle + GNSS RX + Battery + WPC(Charging from Cradle with Adapter)
Radiated Emissions	Mode 1: LTE Cat M1 Band 12 (Middle CH) Rx + Bluetooth Idle + GNSS RX + Battery + eSIM Mode 2: LTE Cat M1 Band 12 (Middle CH) Rx + WLAN (2.4G) Idle + GNSS RX + Battery + eSIM + Leash Mode 3: Bluetooth Idle + GNSS RX + Battery + WPC(Charging from Cradle with Adapter) Mode 4: WLAN (2.4G) Idle + GNSS RX + Battery + WPC(Charging from Cradle with Adapter)
Remark: **1.** The worst case of AC is mode 2; only the test data of this mode is reported. **2.** The worst case of RE is mode 3; only the test data of this mode is reported. **3.** Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report. **4.** When charging mode, WWAN function would be disabled.	

2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	N/A
2.	Signal Generator	R&S	SMBV100A	N/A	N/A	N/A
3.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	N/A
4.	Notebook	Lenovo	V130-14IKB001	N/A	N/A	Unshielded,1.8m
5.	Mobile phone	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Mobile phone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
2. WPC function, wireless charging from cradle.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

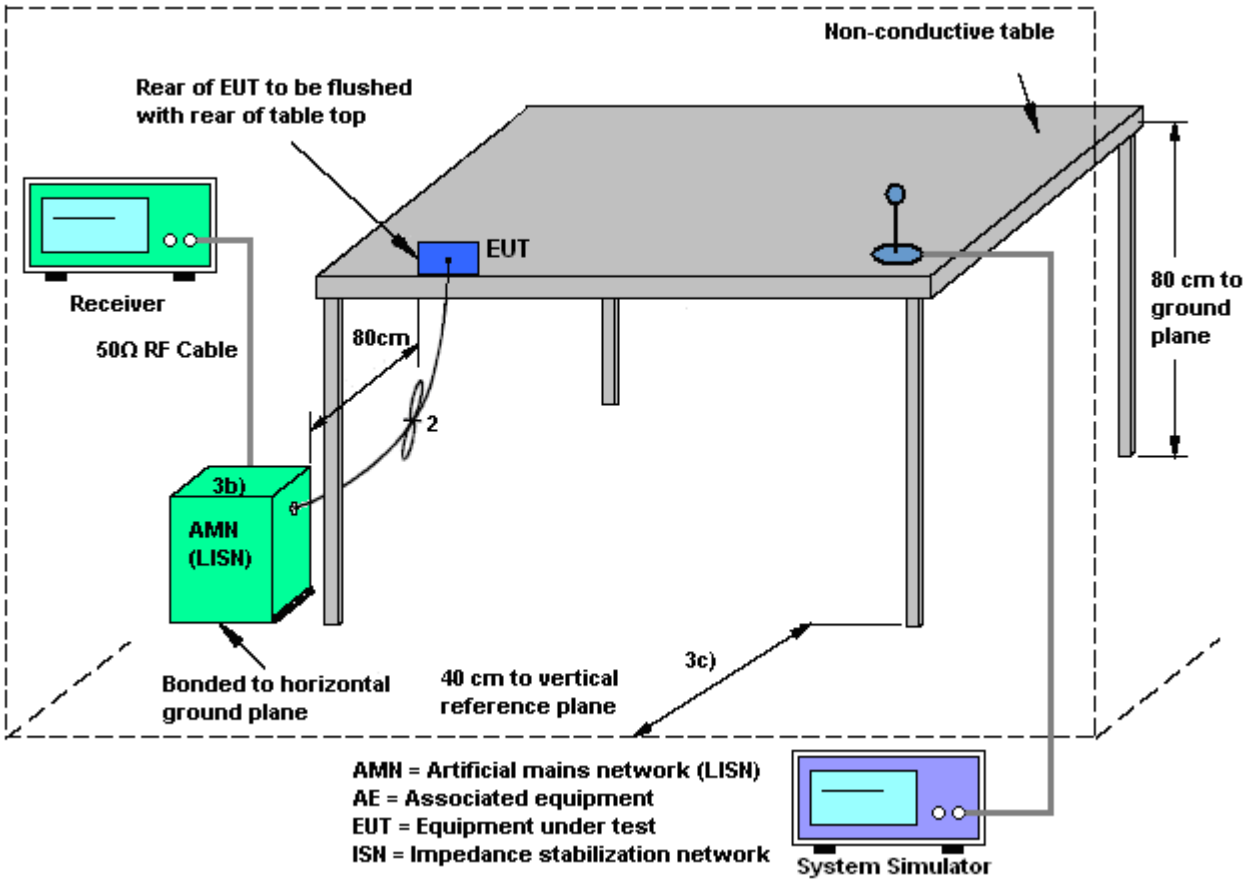
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

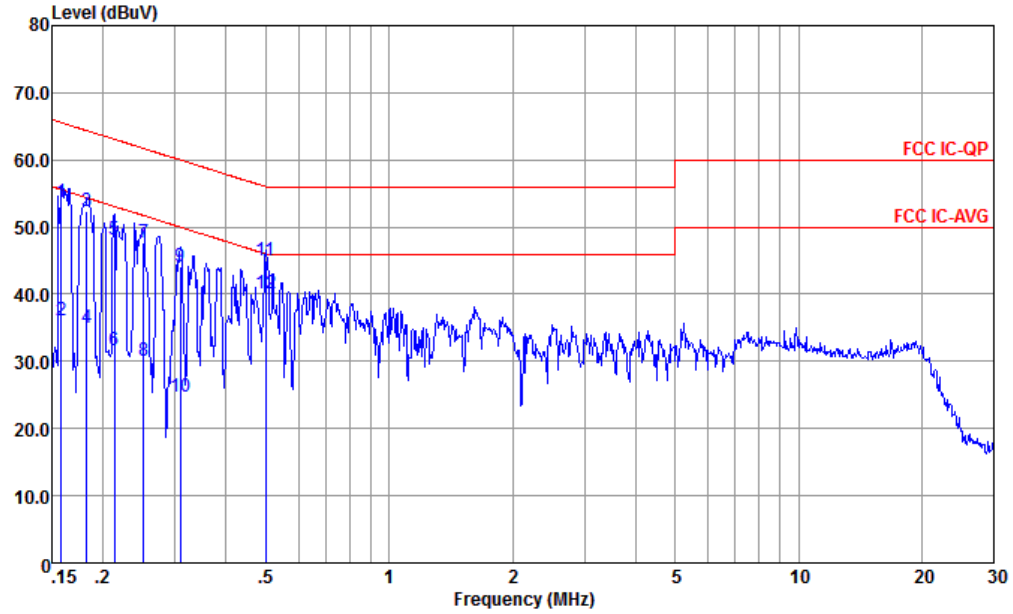
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

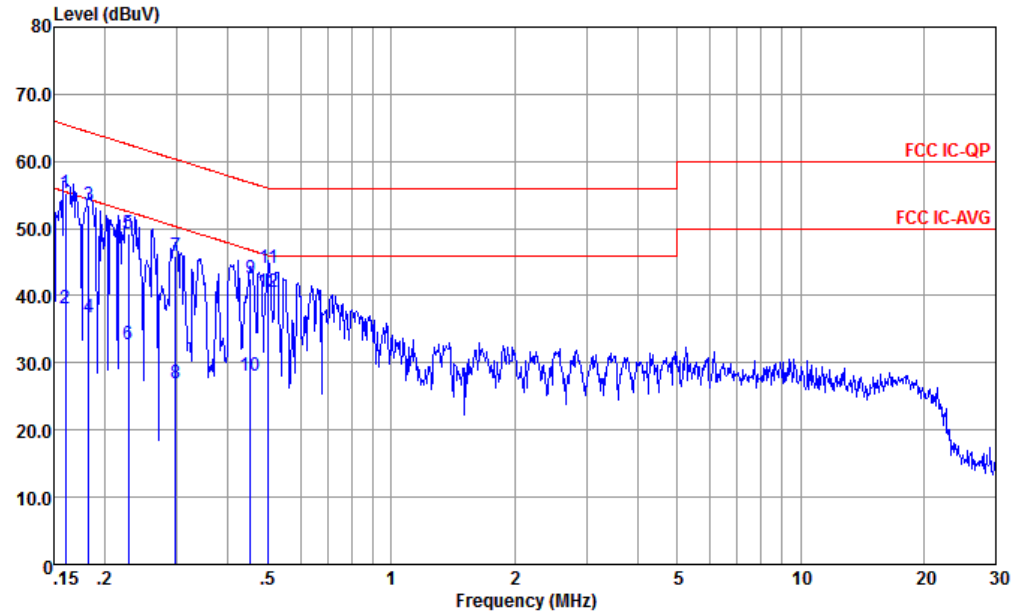
Test Engineer :	Amos	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC IC-QP LISN-060105-L 2024 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.158	53.66	-11.90	65.56	43.10	0.11	10.45	QP
2	0.158	36.16	-19.40	55.56	25.60	0.11	10.45	Average
3	0.182	52.35	-12.02	64.37	41.80	0.09	10.46	QP
4	0.182	35.05	-19.32	54.37	24.50	0.09	10.46	Average
5	0.213	48.04	-15.06	63.10	37.50	0.08	10.46	QP
6	0.213	31.74	-21.36	53.10	21.20	0.08	10.46	Average
7	0.251	47.76	-13.97	61.73	37.20	0.09	10.47	QP
8	0.251	30.16	-21.57	51.73	19.60	0.09	10.47	Average
9	0.308	44.16	-15.86	60.02	33.60	0.08	10.48	QP
10	0.308	24.76	-25.26	50.02	14.20	0.08	10.48	Average
11	0.499	45.10	-10.91	56.01	34.80	-0.11	10.41	QP
12 *	0.499	40.10	-5.91	46.01	29.80	-0.11	10.41	Average

Test Engineer :	Amos	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC IC-QP LISN-060105-N 2024 NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.160	55.17	-10.30	65.47	44.60	0.12	10.45	QP
2		0.160	38.07	-17.40	55.47	27.50	0.12	10.45	Average
3		0.182	53.38	-10.99	64.37	42.79	0.13	10.46	QP
4		0.182	36.78	-17.59	54.37	26.19	0.13	10.46	Average
5		0.228	49.32	-13.20	62.52	38.80	0.05	10.47	QP
6		0.228	32.82	-19.70	52.52	22.30	0.05	10.47	Average
7		0.297	45.86	-14.46	60.32	35.49	-0.11	10.48	QP
8		0.297	26.96	-23.36	50.32	16.59	-0.11	10.48	Average
9		0.454	42.50	-14.30	56.80	32.20	-0.14	10.44	QP
10		0.454	28.10	-18.70	46.80	17.80	-0.14	10.44	Average
11		0.502	44.06	-11.94	56.00	33.80	-0.15	10.41	QP
12	*	0.502	40.46	-5.54	46.00	30.20	-0.15	10.41	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

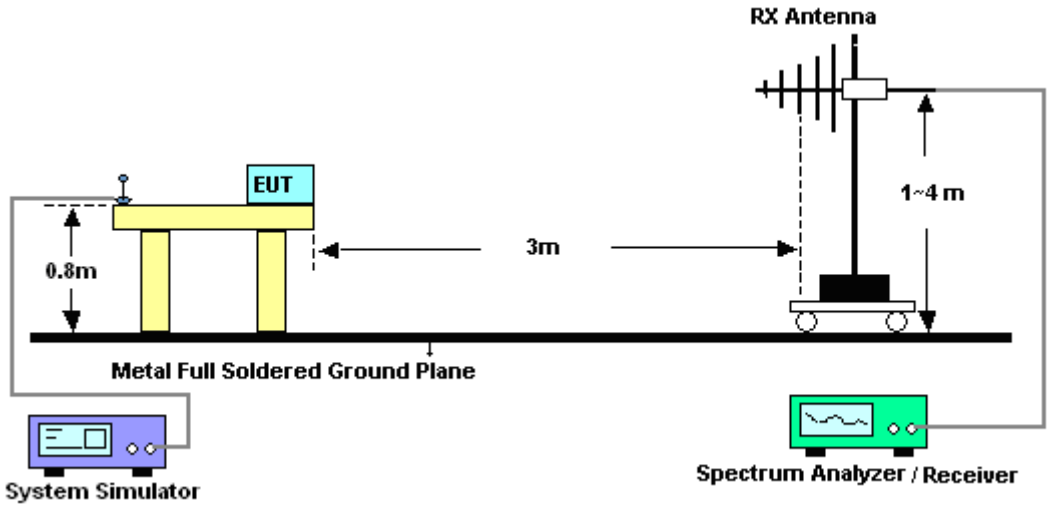
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

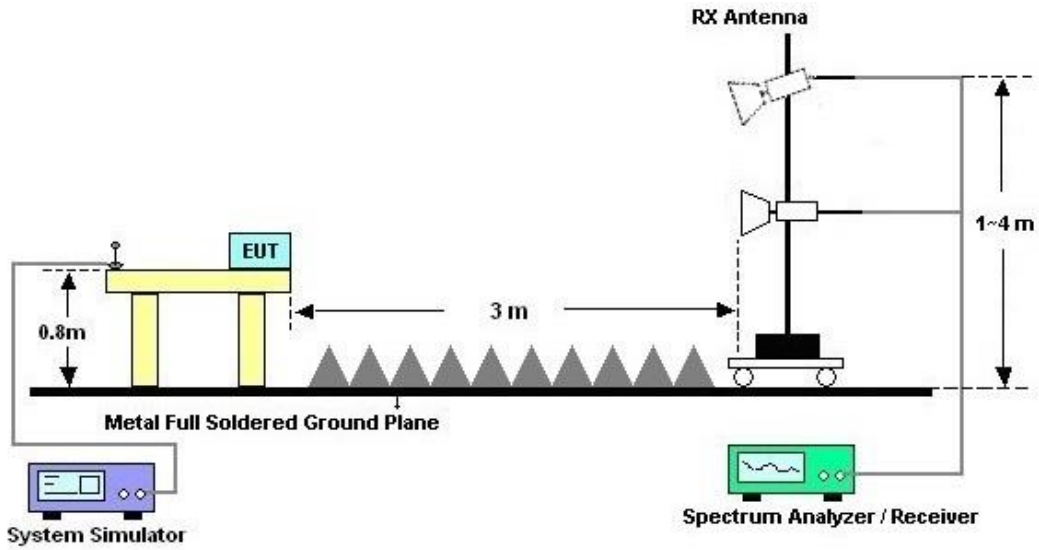
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

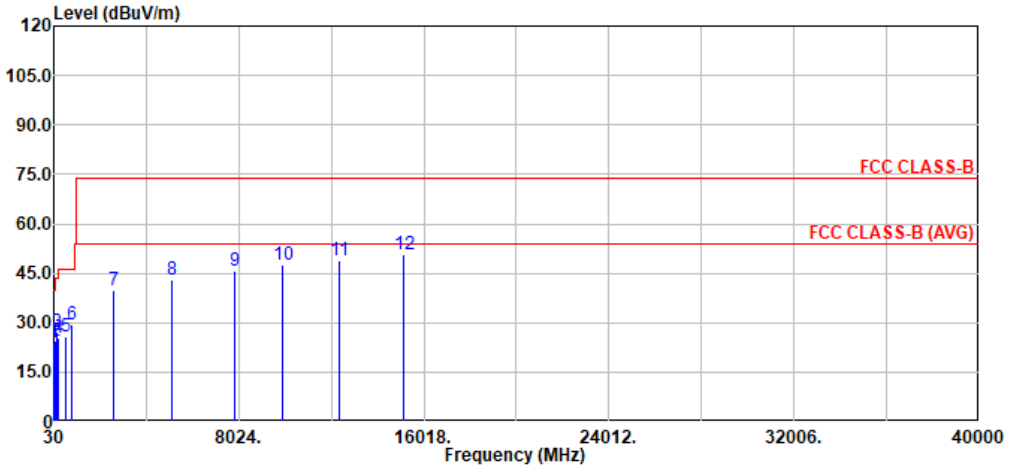


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

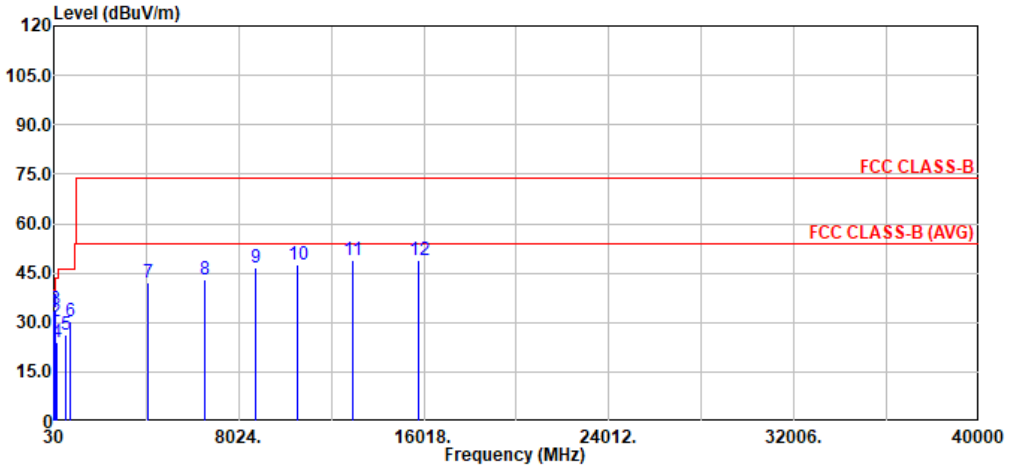
Test Engineer :	Feng	**Temperature :**	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	**Polarization :**	Horizontal



Site : 03CH04-KS
Condition : FCC CLASS-B 3m 3117-00227860-2024 Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	49.64	23.89	40.00	-16.11	41.31	14.63	0.86	32.91	--	--	Peak
2	101.54	24.37	43.50	-19.13	39.44	16.19	1.65	32.91	--	--	Peak
3	183.50	27.29	43.50	-16.21	43.14	14.84	2.20	32.89	--	--	Peak
4	249.71	25.22	46.00	-20.78	36.84	18.67	2.59	32.88	--	--	Peak
5	560.35	25.90	46.00	-20.10	28.53	26.58	3.89	33.10	--	--	Peak
6	777.14	29.26	46.00	-16.74	28.92	28.55	4.57	32.78	--	--	Peak
7	2619.25	39.85	74.00	-34.15	61.84	32.16	8.48	62.63	--	--	Peak
8	5105.50	42.81	74.00	-31.19	60.47	34.91	12.00	64.57	--	--	Peak
9	7825.50	45.63	74.00	-28.37	58.88	35.85	14.99	64.09	--	--	Peak
10	9927.13	47.35	74.00	-26.65	55.98	37.20	17.04	62.87	--	--	Peak
11	12364.50	48.95	74.00	-25.05	52.34	38.84	19.25	61.48	--	--	Peak
12	15129.13	50.56	74.00	-23.44	53.14	39.66	21.31	63.55	--	--	Peak

Test Engineer :	Feng	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH04-KS
Condition : FCC CLASS-B 3m 3117-00227860-2024 Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	45.76	33.16	40.00	-6.84	48.64	16.63	0.80	32.91	--	--	Peak
2	87.96	30.23	40.00	-9.77	47.23	14.46	1.45	32.91	--	--	Peak
3	119.48	33.79	43.50	-9.71	47.56	17.35	1.78	32.90	--	--	Peak
4	188.11	23.98	43.50	-19.52	39.89	14.74	2.24	32.89	--	--	Peak
5	555.26	26.15	46.00	-19.85	29.22	26.16	3.88	33.11	--	--	Peak
6	767.69	30.23	46.00	-15.77	30.10	28.40	4.55	32.82	--	--	Peak
7	4085.50	42.19	74.00	-31.81	60.74	33.40	10.67	62.62	--	--	Peak
8	6546.25	42.81	74.00	-31.19	58.09	35.69	13.64	64.61	--	--	Peak
9	8741.38	46.79	74.00	-27.21	58.33	36.00	15.93	63.47	--	--	Peak
10	10579.50	47.57	74.00	-26.43	55.60	37.68	17.71	63.42	--	--	Peak
11	12921.25	48.75	74.00	-25.25	51.63	39.30	19.58	61.76	--	--	Peak
12	15815.50	48.75	74.00	-25.25	50.60	40.40	21.87	64.12	--	--	Peak

Note:

1. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2024	Apr. 22, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Apr. 22, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Apr. 22, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Apr. 22, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Apr. 22, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Apr. 22, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Apr. 22, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Apr. 22, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 09, 2024	Apr. 22, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 09, 2024	Apr. 22, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 22, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 22, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 22, 2025	NCR	Radiation (03CH04-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2025	May 08, 2025	Apr. 17, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2025	May 08, 2025	Aug. 19, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2025	May 08, 2025	Apr. 17, 2026	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	May 08, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required

5. Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.84 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.04 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.34 dB**

---------- THE END ----------