



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2659-1, XT2659-2
FCC ID : IHDT56AP9
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Dec. 04, 2025 ~ Dec. 12, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures 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. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang



Approved by: Fly Liang

Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5N2011B	Rev. 01	Initial issue of report	Dec. 23, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(b)(3)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.2	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.12 dB at 2483.54 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.20 dB at 0.77 MHz

Note: This is a variant report. The change note could be referred to the XT2659-1, XT2659-2_Operational Description of Product Equality Declaration which is exhibit separately. Based on the similarity between current and previous project, only the related test cases from original test report (Sporton Report Number FR420703B) were verified for the differences.

Conformity Assessment Condition:

1. 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result 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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2659-1, XT2659-2
FCC ID	IHDT56AP9
IMEI Code	Conducted: 354410210014315-354410210014323 Conduction: 354410210014935 Radiation: 354410210014935/354410210014943 354410210014877/354410210014885
HW Version	DVT1
SW Version	WWS36.24
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two model names are only for market segment, no other difference.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Type of Modulation	Bluetooth LE : GFSK



1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ CO02-SZ 03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

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 C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.9 Specification of Accessory

Specification of Accessory				
Battery 1	Brand Name	Motorola(ATL)	Model Name	SA11
Battery 2	Brand Name	Motorola(ATL)	Model Name	SA34
USB Cable 1	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86731
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

2.2 Test Mode

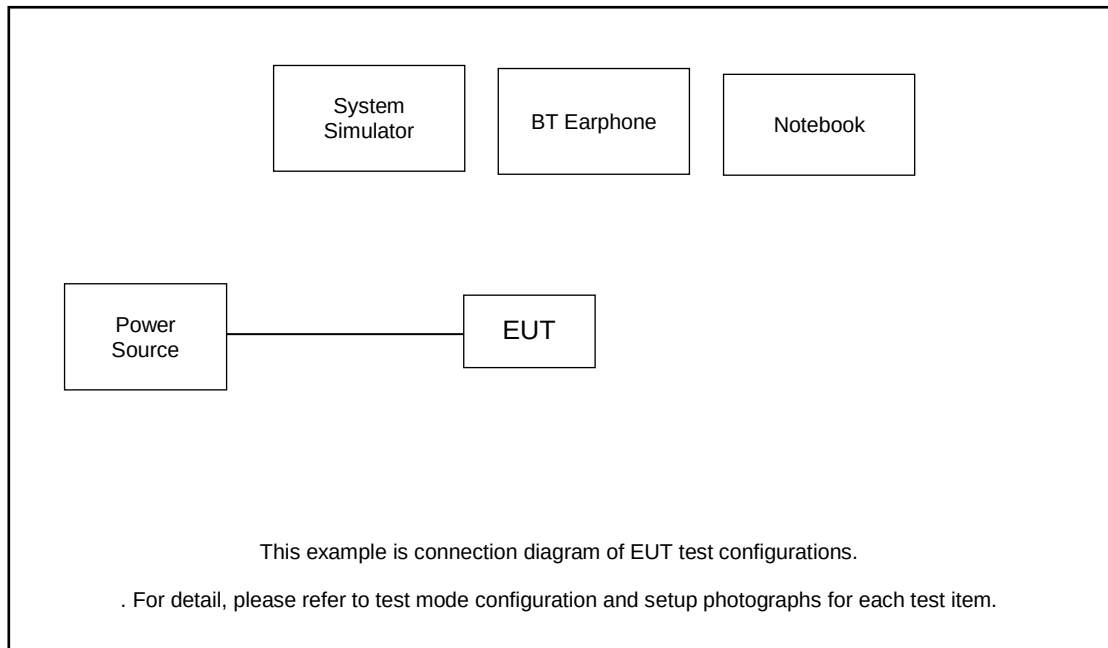
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

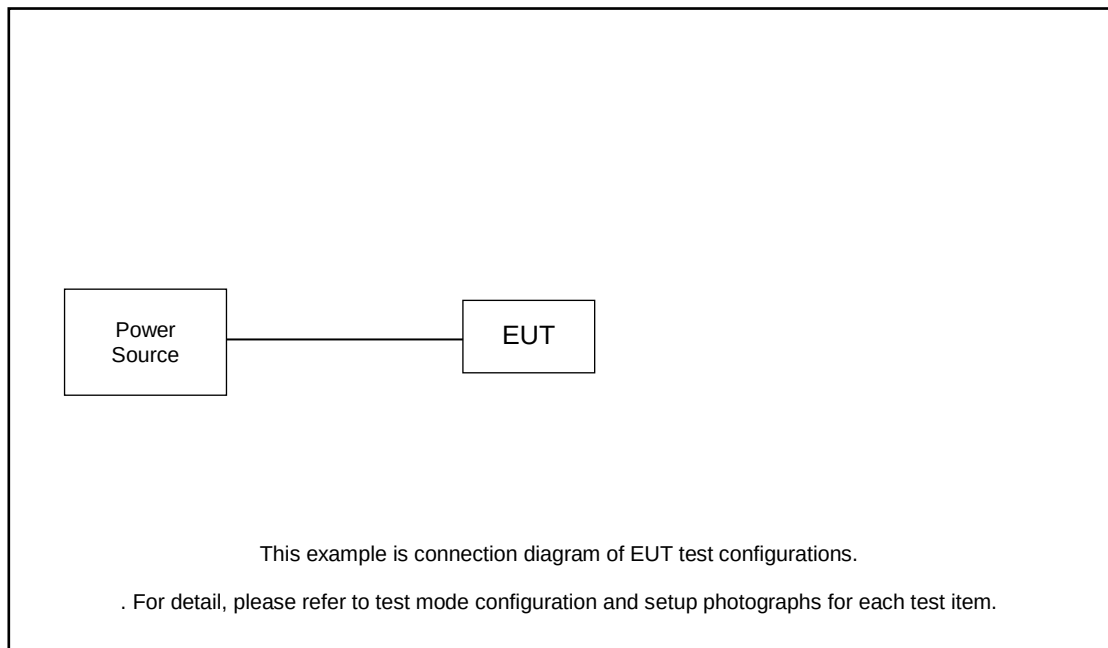
Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
Conducted TCs	Mode 1: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps
Radiated TCs	Mode 1: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps
RSE Co-location	Bluetooth-LE 1Mbps CH39_2480 MHz Tx + LTE Band 48 Link
AC Conducted Emission	Mode 1: GSM 850 Idle + Bluetooth Link + USB Cable 1(Charging from Adapter) + Battery
Remark: For Radiated Test Cases, The tests were performance with Adapter and USB Cable 1.	

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	N/A	N/A	N/A	N/A	N/A
4.	AC Adapter	Moto	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

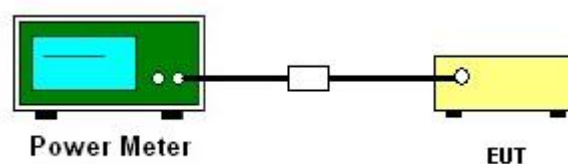
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.1.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

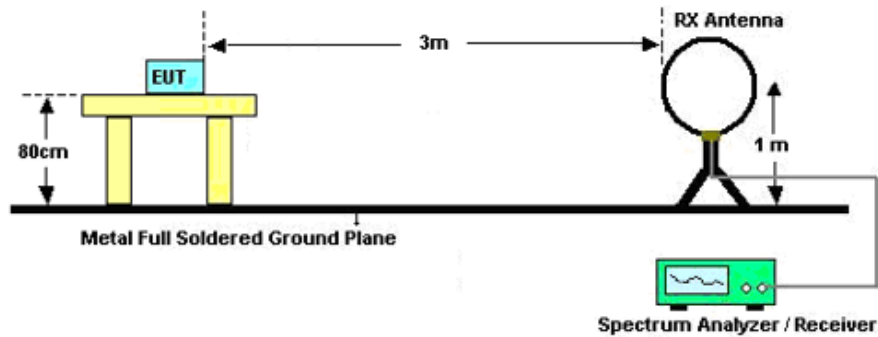
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

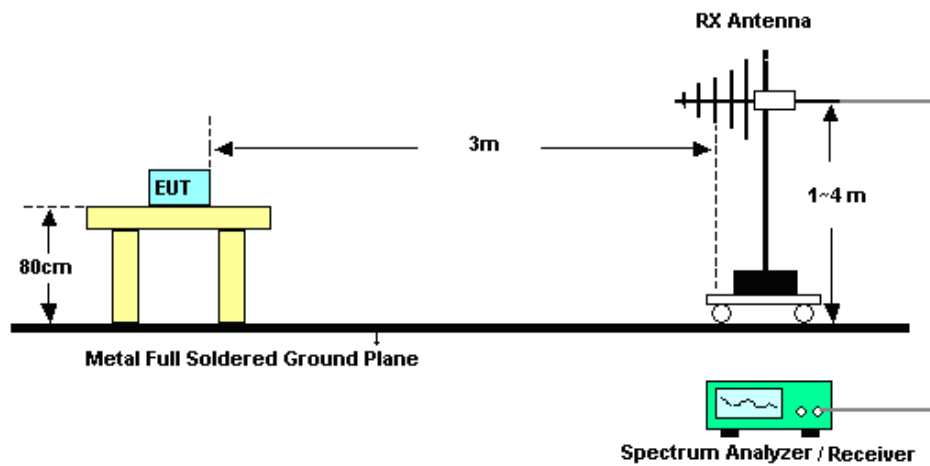
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

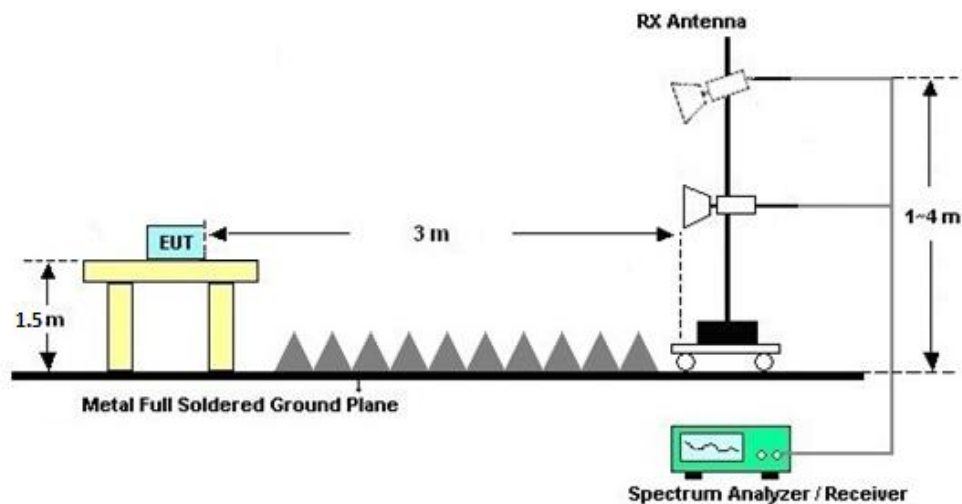
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.2.7 Duty Cycle

Please refer to Appendix D.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.3 AC Conducted Emission Measurement

3.3.1 Limit 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.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	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.

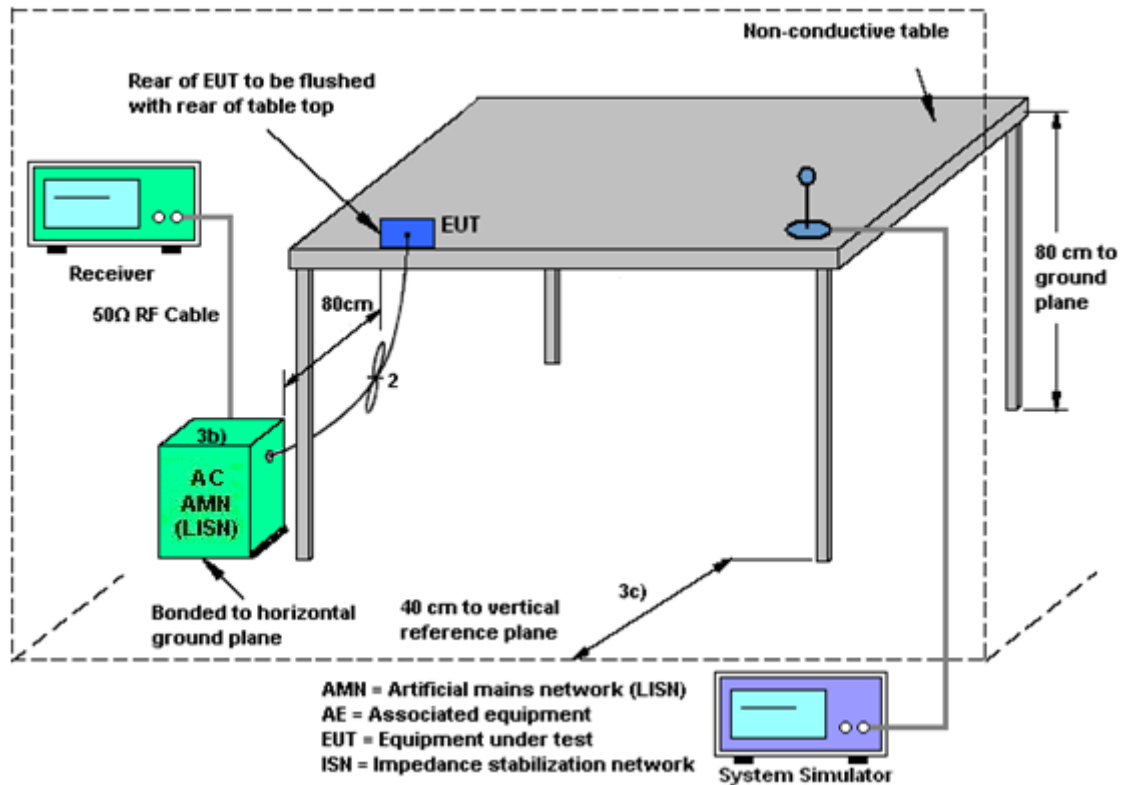
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

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.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 14, 2025	Dec. 12, 2025	Oct. 13, 2026	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Dec. 12, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Dec. 12, 2025	Dec. 27, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 21, 2025	Dec. 12, 2025	Apr. 20, 2026	Radiation (03CH04-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240057	1GHz~18GHz	Jul. 03, 2025	Dec. 12, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2025	Dec. 12, 2025	Jul. 03, 2026	Radiation (03CH04-SZ)
LF Amplifier	EM Electronics	EM330	060773	20MHz-3GHz	Apr. 02, 2025	Dec. 12, 2025	Apr. 01, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2025	Dec. 12, 2025	Oct. 13, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Dec. 12, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2025	Dec. 12, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 14, 2025	Dec. 12, 2025	Oct. 13, 2026	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 12, 2025	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 12, 2025	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 02, 2025	Dec. 06, 2025	Jul. 01, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2025	Dec. 06, 2025	Jul. 02, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Dec. 06, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Dec. 04, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Dec. 04, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Dec. 04, 2025	Oct. 12, 2026	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
---	--------

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



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Wen Shiwei	Temperature:	21~25	°C
Test Date:	2025/12/4	Relative Humidity:	51~54	%

ANT7

<u>TEST RESULTS DATA</u>											
<u>Peak Power Table</u>											
Mod.	Data Rate	ANT	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	
BLE	1Mbps	7	19	2440	16.26	30.00	-2.24	14.02	36.00	Pass	Power Level default

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>												
Mod.	Data Rate	ANT	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Level
BLE	1Mbps	7	19	2440	2.01	16.00	30.00	-2.24	13.76	36.00	Pass	default

ANT5

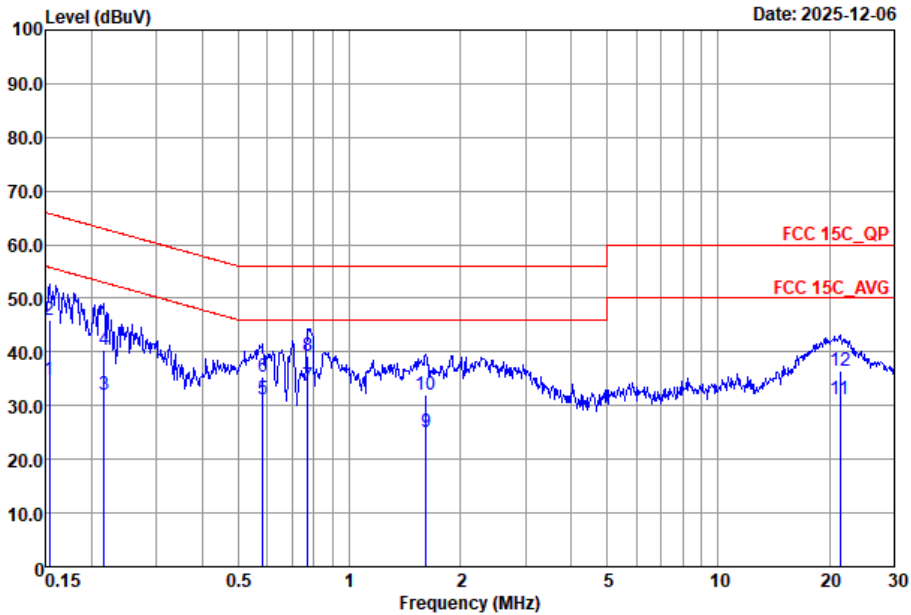
<u>TEST RESULTS DATA</u>											
<u>Peak Power Table</u>											
Mod.	Data Rate	ANT	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	
BLE	1Mbps	5	19	2440	16.65	30.00	-3.85	12.80	36.00	Pass	Power Level default

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>												
Mod.	Data Rate	ANT	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Level
												default
BLE	1Mbps	5	19	2440	2.01	16.30	30.00	-3.85	12.45	36.00	Pass	



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Winter	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

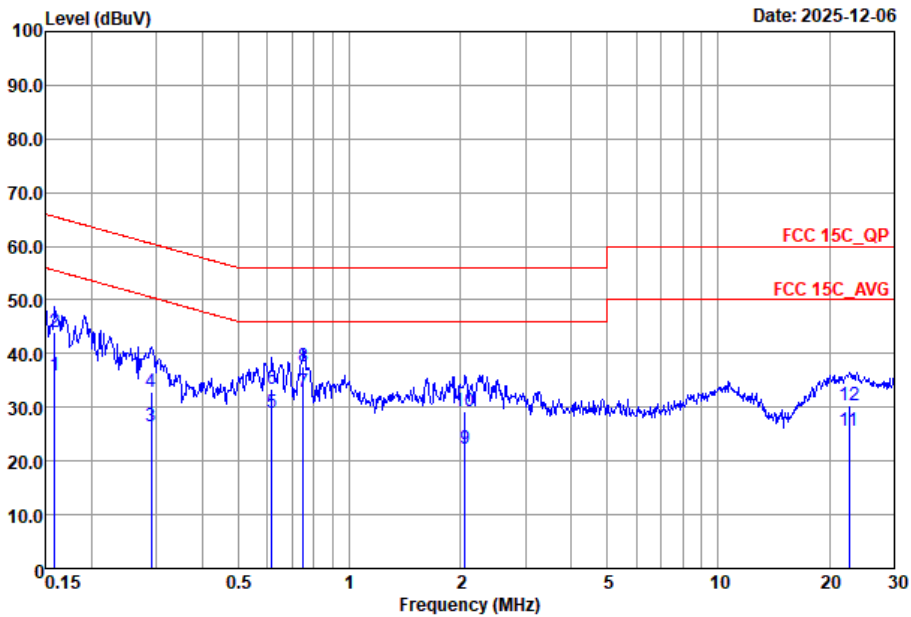


Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15	34.85	-20.93	55.78	15.00	9.66	10.19	Average
2	0.15	45.85	-19.93	65.78	26.00	9.66	10.19	QP
3	0.22	31.90	-21.06	52.96	12.00	9.71	10.19	Average
4	0.22	40.30	-22.66	62.96	20.40	9.71	10.19	QP
5	0.58	31.20	-14.80	46.00	11.30	9.66	10.24	Average
6	0.58	35.30	-20.70	56.00	15.40	9.66	10.24	QP
7	0.77	33.80	-12.20	46.00	13.91	9.66	10.23	Average
8 *	0.77	39.20	-16.80	56.00	19.31	9.66	10.23	QP
9	1.61	25.11	-20.89	46.00	5.20	9.66	10.25	Average
10	1.61	32.01	-23.99	56.00	12.10	9.66	10.25	QP
11	21.37	31.23	-18.77	50.00	10.99	9.74	10.50	Average
12	21.37	36.43	-23.57	60.00	16.19	9.74	10.50	QP



Test Engineer :	Winter	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-N NEUTRAL
Project : 5N2011

	Freq	Level	Limit	t	Read	LISN	Cable	
	MHz	dBuV	dB	Line	Level	Factor	Loss	Remark
				dBuV	dBuV	dB	dB	
1	0.16	35.93	-19.59	55.52	16.10	9.64	10.19	Average
2	0.16	44.13	-21.39	65.52	24.30	9.64	10.19	QP
3	0.29	26.44	-24.06	50.50	6.41	9.83	10.20	Average
4	0.29	32.74	-27.76	60.50	12.71	9.83	10.20	QP
5	0.62	28.89	-17.11	46.00	9.00	9.65	10.24	Average
6	0.62	33.29	-22.71	56.00	13.40	9.65	10.24	QP
7	0.75	32.87	-13.13	46.00	12.90	9.74	10.23	Average
8 *	0.75	37.47	-18.53	56.00	17.50	9.74	10.23	QP
9	2.05	22.17	-23.83	46.00	2.20	9.71	10.26	Average
10	2.05	29.17	-26.83	56.00	9.20	9.71	10.26	QP
11	22.66	25.59	-24.41	50.00	5.19	9.88	10.52	Average
12	22.66	30.39	-29.61	60.00	9.99	9.88	10.52	QP

Note:

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



Appendix C. Radiated Spurious Emission

Test Engineer :	Wenbo Xiao	Relative Humidity :	50%
		Temperature :	20~22°C

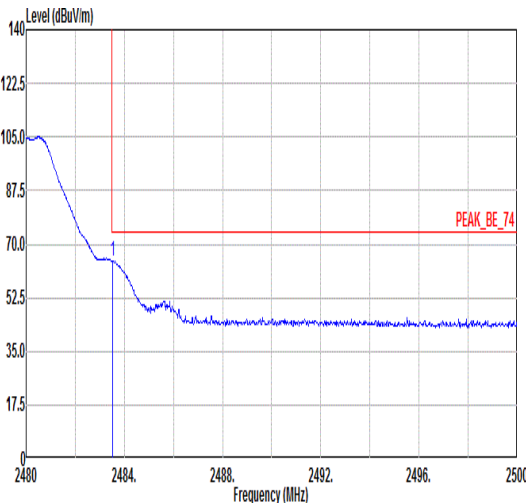
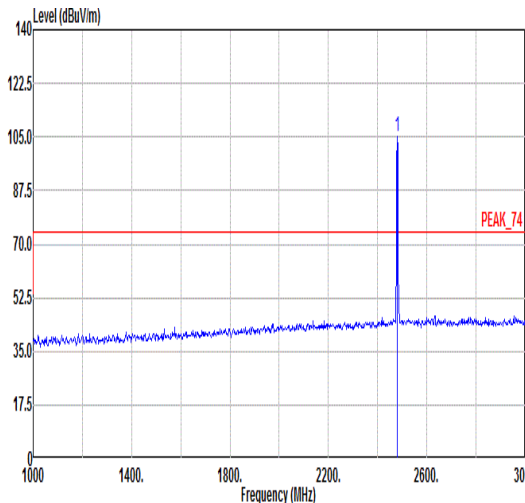
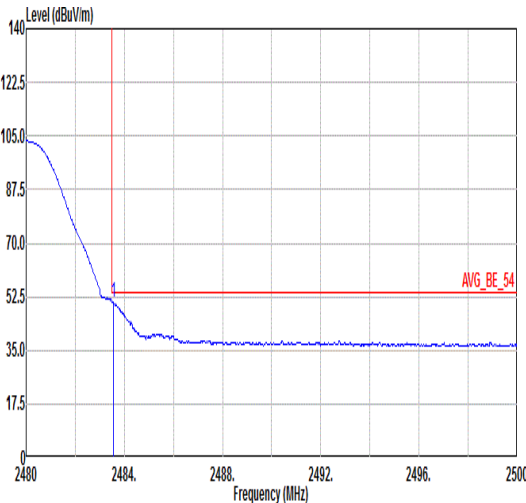
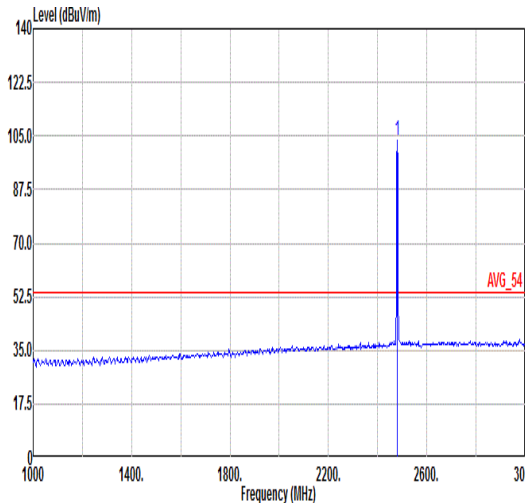
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	7+5	Bluetooth-LE	39	2480	2Mbps	-	-
Mode 2	CO_TX	7+5	Bluetooth-LE	39	2480	2Mbps	-	-
		4	LTE B48					-
Mode 3	2400-2483.5	7+5	Bluetooth-LE-LF	39	2480	2Mbps	-	LF

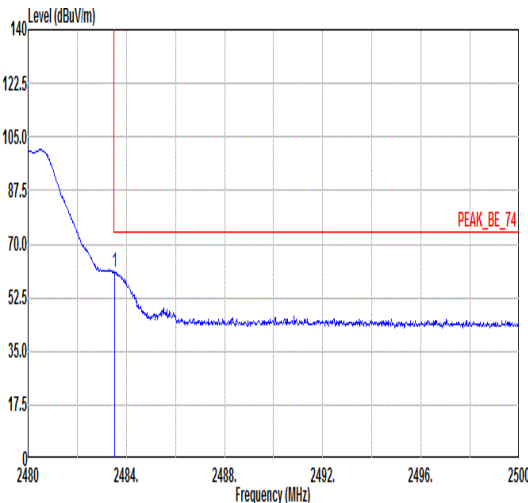
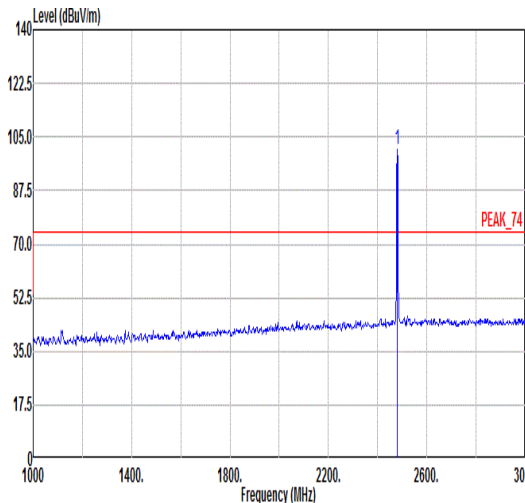
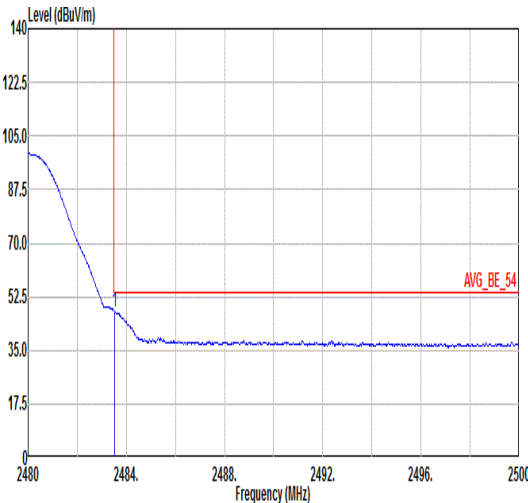
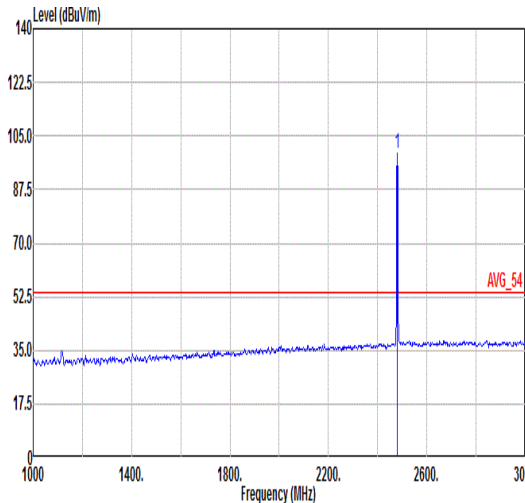
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	PEAK Avg.	Result	Remark
1	Bluetooth-LE	39	2483.54	50.88	54.00	-3.12	H	AVERAGE	Pass	Band Edge
1	Bluetooth-LE	39	7440.00	45.64	74.00	-28.36	H	Peak	Pass	Harmonic
2	Bluetooth-LE	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth-LE	39	7440.00	45.78	74.00	-28.22	H	Peak	Pass	Harmonic
3	Bluetooth-LE-LF	39	200.72	33.05	43.50	-10.45	H	Peak	Pass	LF

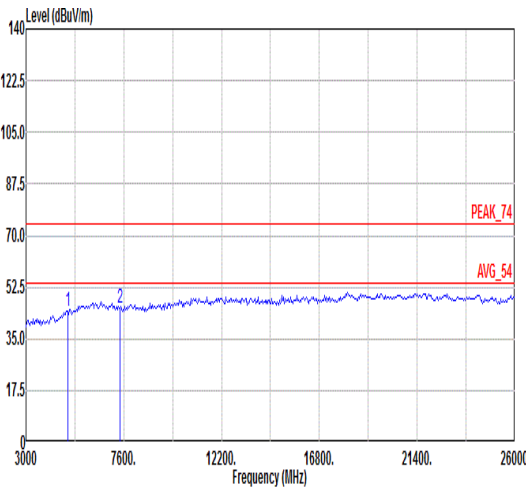
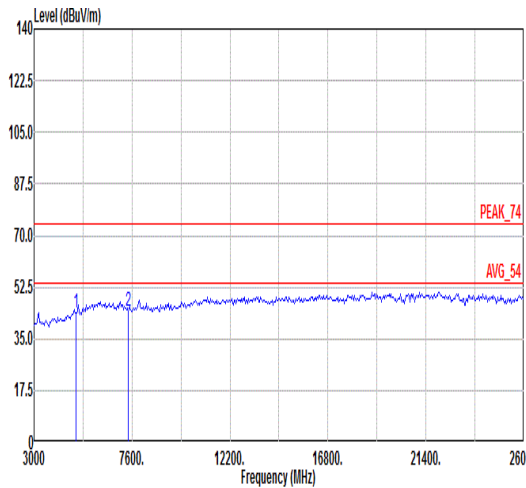


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	Band Edge																																																																																										
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ANT	7+5																																																																																										
Pol.	Horizontal						Fundamental																																																																																				
Peak																																																																																											
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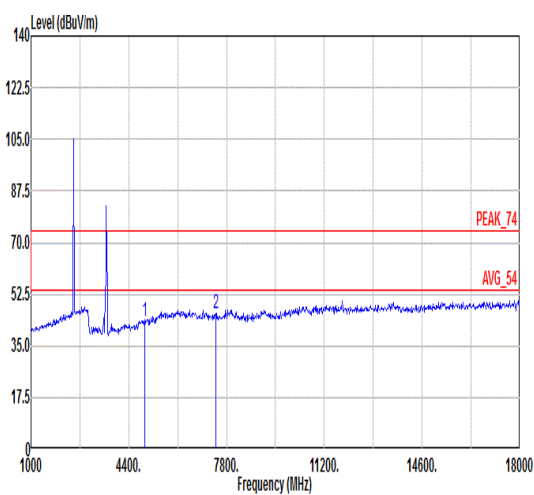
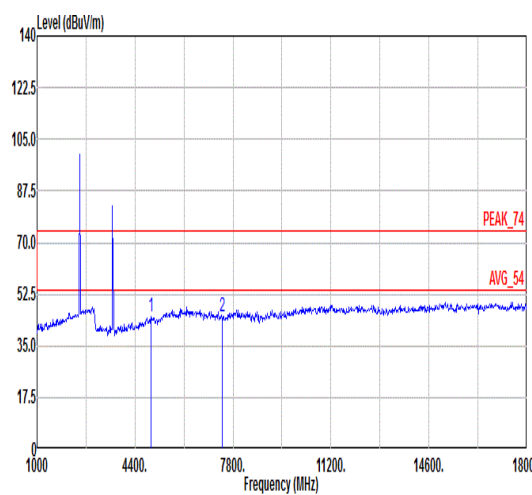


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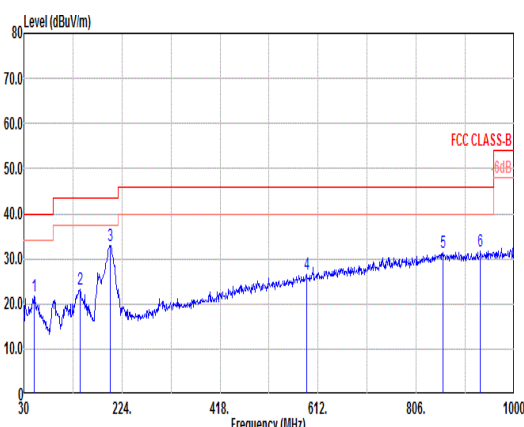
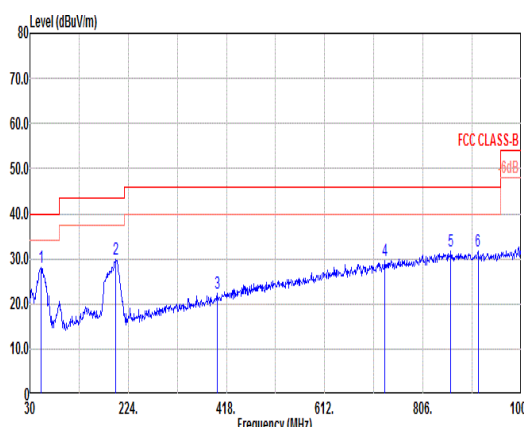
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			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																						
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Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored.



Mode	3																																																																																																																																																																																													
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	2400-2483.5_Bluetooth-LE-LF_CH39_2480MHz																																																																																																																																																																																													
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QP/ Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>50.37</td><td>21.80</td><td>40.00</td><td>-18.20</td><td>33.10</td><td>19.69</td><td>0.71</td><td>31.70</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>141.55</td><td>23.11</td><td>43.50</td><td>-20.39</td><td>35.14</td><td>18.37</td><td>1.22</td><td>31.62</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>200.72</td><td>33.05</td><td>43.50</td><td>-10.45</td><td>47.13</td><td>15.99</td><td>1.43</td><td>31.50</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>588.72</td><td>26.58</td><td>46.00</td><td>-19.42</td><td>29.61</td><td>25.58</td><td>2.54</td><td>31.15</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>858.38</td><td>31.44</td><td>46.00</td><td>-14.56</td><td>30.79</td><td>28.62</td><td>3.07</td><td>31.04</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>933.07</td><td>31.74</td><td>46.00</td><td>-14.26</td><td>30.01</td><td>29.42</td><td>3.21</td><td>30.90</td><td>---</td><td>Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	50.37	21.80	40.00	-18.20	33.10	19.69	0.71	31.70	---	Peak	2	141.55	23.11	43.50	-20.39	35.14	18.37	1.22	31.62	---	Peak	3	200.72	33.05	43.50	-10.45	47.13	15.99	1.43	31.50	---	Peak	4	588.72	26.58	46.00	-19.42	29.61	25.58	2.54	31.15	---	Peak	5	858.38	31.44	46.00	-14.56	30.79	28.62	3.07	31.04	---	Peak	6	933.07	31.74	46.00	-14.26	30.01	29.42	3.21	30.90	---	Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>52.31</td><td>28.04</td><td>40.00</td><td>-11.96</td><td>39.48</td><td>19.54</td><td>0.72</td><td>31.70</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>199.75</td><td>29.88</td><td>43.50</td><td>-13.62</td><td>43.98</td><td>15.97</td><td>1.43</td><td>31.50</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>399.57</td><td>22.19</td><td>46.00</td><td>-23.81</td><td>29.80</td><td>21.59</td><td>2.10</td><td>31.30</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>730.34</td><td>29.72</td><td>46.00</td><td>-16.28</td><td>30.16</td><td>27.79</td><td>2.81</td><td>31.04</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>861.29</td><td>31.64</td><td>46.00</td><td>-14.36</td><td>30.93</td><td>28.67</td><td>3.08</td><td>31.04</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>914.64</td><td>31.61</td><td>46.00</td><td>-14.39</td><td>30.05</td><td>29.34</td><td>3.18</td><td>30.96</td><td>---</td><td>Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	52.31	28.04	40.00	-11.96	39.48	19.54	0.72	31.70	---	Peak	2	199.75	29.88	43.50	-13.62	43.98	15.97	1.43	31.50	---	Peak	3	399.57	22.19	46.00	-23.81	29.80	21.59	2.10	31.30	---	Peak	4	730.34	29.72	46.00	-16.28	30.16	27.79	2.81	31.04	---	Peak	5	861.29	31.64	46.00	-14.36	30.93	28.67	3.08	31.04	---	Peak	6	914.64	31.61	46.00	-14.39	30.05	29.34	3.18	30.96	---	Peak
		Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																					
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3	200.72	33.05	43.50	-10.45	47.13	15.99	1.43	31.50	---	Peak																																																																																																																																																																																				
4	588.72	26.58	46.00	-19.42	29.61	25.58	2.54	31.15	---	Peak																																																																																																																																																																																				
5	858.38	31.44	46.00	-14.56	30.79	28.62	3.07	31.04	---	Peak																																																																																																																																																																																				
6	933.07	31.74	46.00	-14.26	30.01	29.42	3.21	30.90	---	Peak																																																																																																																																																																																				
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3	399.57	22.19	46.00	-23.81	29.80	21.59	2.10	31.30	---	Peak																																																																																																																																																																																				
4	730.34	29.72	46.00	-16.28	30.16	27.79	2.81	31.04	---	Peak																																																																																																																																																																																				
5	861.29	31.64	46.00	-14.36	30.93	28.67	3.08	31.04	---	Peak																																																																																																																																																																																				
6	914.64	31.61	46.00	-14.39	30.05	29.34	3.18	30.96	---	Peak																																																																																																																																																																																				

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
7+5	Bluetooth –LE 2Mbps	33.33	0.210	4.762	10KHZ

Bluetooth – LE 2Mbps

