

Test Report No:
2550032R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	System-On-Module
Brand Name	AMobile
Model No.	SoM-SD700, SoM-SD510
FCC ID	2AQ5W-SOM510-700
Applicant's Name / Address	AMobile Solutions Corp. 8F.-1, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Manufacturer's Name / Address	AMobile Solutions Corp. 8F.-1, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Vera Hsu
Approved By	 Allen Lin
Date of Receipt	May 05, 2025
Date of Issue	Jul. 15, 2025
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
Summary of Test Result.....	6
Comments and Remarks	6
1. General Information.....	7
1.1. EUT Description	7
1.2. EUT Information	7
1.3. Testing Applied Standards.....	8
1.4. Testing Location Information	8
1.5. Measurement Uncertainty	9
1.6. List of Test Equipment	10
2. Test Configuration of EUT	11
2.1. Test Condition.....	11
2.2. Test Frequency Mode	11
2.3. Duty Cycle	12
2.4. The Worst Case Measurement Configuration.....	13
2.5. Tested System Details.....	15
2.6. Configuration of Tested System	15
3. AC Power Line Conducted Emission	17
3.1. Test Setup	17
3.2. Test Limit	17
3.3. Test Procedure	17
3.4. Test Result of AC Power Line Conducted Emission	18
4. Occupied Bandwidth & DTS Bandwidth.....	19
4.1. Test Setup	19
4.2. Test Limit	19
4.3. Test Procedures	19
4.4. Test Result of Occupied Bandwidth & DTS Bandwidth.....	19
5. Maximum Conducted Output Power	20
5.1. Test Setup	20
5.2. Test Limit	20
5.3. Test Procedures	20
5.4. Test Result of Maximum Conducted Output Power	20
6. Maximum Power Spectral Density	21
6.1. Test Setup	21

6.2.	Test Limit	21
6.3.	Test Procedures	21
6.4.	Test Result of Maximum Power Spectral Density	21
7.	Antenna Port Conducted Emission	22
7.1.	Test Setup	22
7.2.	Test Limit	22
7.3.	Test Procedure	22
7.4.	Test Result of Antenna Port Conducted Emission	22
8.	Transmitter Radiated Spurious Emission	23
8.1.	Test Setup	23
8.2.	Test Limit	24
8.3.	Test Procedure	24
8.4.	Test Result of Transmitter Radiated Spurious Emission (Below 30 MHz)	25
8.5.	Test Result of Transmitter Radiated Spurious Emission	25
Appendix A. Test Result of AC Power Line Conducted Emission		
Appendix B. Test Result of Occupied Bandwidth & DTS Bandwidth		
Appendix C. Test Result of Maximum Conducted Output Power		
Appendix D. Test Result of Maximum Power Spectral Density		
Appendix E. Test Result of Antenna Port Conducted Emission		
Appendix F. Test Result of Transmitter Radiated Spurious Emission		
Appendix G. Test Result of Radiated Emissions Co-location		
Appendix H. Test Setup Photograph		

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 15, 2025

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & DTS Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Transmitter Radiated Spurious Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz	
Operating Frequency	IEEE 802.11b/g IEEE 802.11n (20 MHz)	2412 ~ 2462 MHz
	IEEE 802.11n (40 MHz)	2422 ~ 2452 MHz
Channel Number	IEEE 802.11b/g IEEE 802.11n (20 MHz)	11 Channels
	IEEE 802.11n (40 MHz)	7 Channels
Type of Modulation	IEEE 802.11b	DSSS-DBPSK, DQPSK, CCK
	IEEE 802.11g/n	OFDM-BPSK, QPSK, 16QAM, 64QAM

The difference for each model is shown as below:

EUT	Model No.	Platform	Description
1	SoM-SD700	MT8390	The differences are platform and CPU/GPU. All under same layout.
2	SoM-SD510	MT8370	

From the above models, model: SoM-SD700 was selected as representative model for the test and its data was recorded in this report.

Antenna Information				
Ant.	Brand Name	Part No.	Type	Antenna Gain (dBi)
1	Cortec	AN0750-74S05BSM	Dipole	2.82
2	Cortec	AN0750-74S05BSM	Dipole	2.82

For IEEE 802.11b/g/n Mode: (2TX, 2RX)

Both Ant. 1 and Ant. 2 can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

1.2. EUT Information

EUT Power Type	From Adapter / Host system		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☐ With beamforming	☒ Without beamforming	

1.3. Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Cyril Chen	25 / 65	2025/05/29
RF Conducted Emission	HC-SR12	Scott Chang	24.5~25.4 / 46.4~50.4	2025/05/23~2025/05/27
Radiated Emission	HC-CB04	Jason Yang Cyril Chen	21.3~23.5 / 53~63	2025/05/22~2025/05/28

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2024/12/02	2025/12/01
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2024/09/11	2025/09/10
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2024/06/03	2025/06/02
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz–2500 MHz	2024/08/15	2025/08/14
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2024/10/29	2025/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2024/10/29	2025/10/28

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2025/05/20	2026/05/19
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2024/06/11	2025/06/10
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2024/11/26	2025/11/25
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2025/01/14	2026/01/13
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2024/10/15	2025/10/14
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2024/08/07	2025/08/06
Coaxial Cable	Huber+Suhner, Rosnol	SF102_UP0264	HC-CB04-1	18-40 GHz, 3m	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A
Pre-Amplifier	EMCI	EMC01820I	980364	30M-8 GHz,20 dB	2024/06/04	2025/06/03
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2024/07/16	2025/07/15
DEKRA Testing System	DEKRA	Version 2.0	HC-CB04	N/A	N/A	N/A
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Frequency Mode

Test Software	cmd
---------------	-----

Modulation	Frequency (MHz)	Power Setting
802.11b	2412	22.0
	2437	17.0
	2462	17.5
802.11g	2412	18.5
	2437	20.0
	2462	18.0
802.11n (20 MHz)	2412	18.5
	2437	23.0
	2462	17.0
802.11n (40 MHz)	2422	16.5
	2437	19.0
	2452	16.0

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.300	8.420	98.57%	0.062	0.010
802.11g	1.370	1.450	94.48%	0.246	0.730
802.11n (20 MHz)	1.290	1.355	95.20%	0.213	0.775
802.11n (40 MHz)	0.635	0.700	90.71%	0.423	1.575

Note: The duty factor will compensate for the total power and power spectral density.



2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit
1	EUT 1 + Adapter
2	EUT 1 + Notebook (Host System)

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
1	EUT 1 + Adapter
2	EUT 1 + Notebook (Host System)
3	EUT 2 + Notebook (Host System)
Operating Mode > 1GHz	Transmit

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	Bluetooth + WiFi 2.4GHz
2	Bluetooth + WiFi 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Transmit
1	Bluetooth + WiFi 2.4GHz
2	Bluetooth + WiFi 5GHz
Refer to DEKRA Test Report No.: 2550032R-RFUSV17S-A for Co-location RF Exposure Evaluation.	

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated spurious emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

2.5. Tested System Details

Test Mode: Mode 1

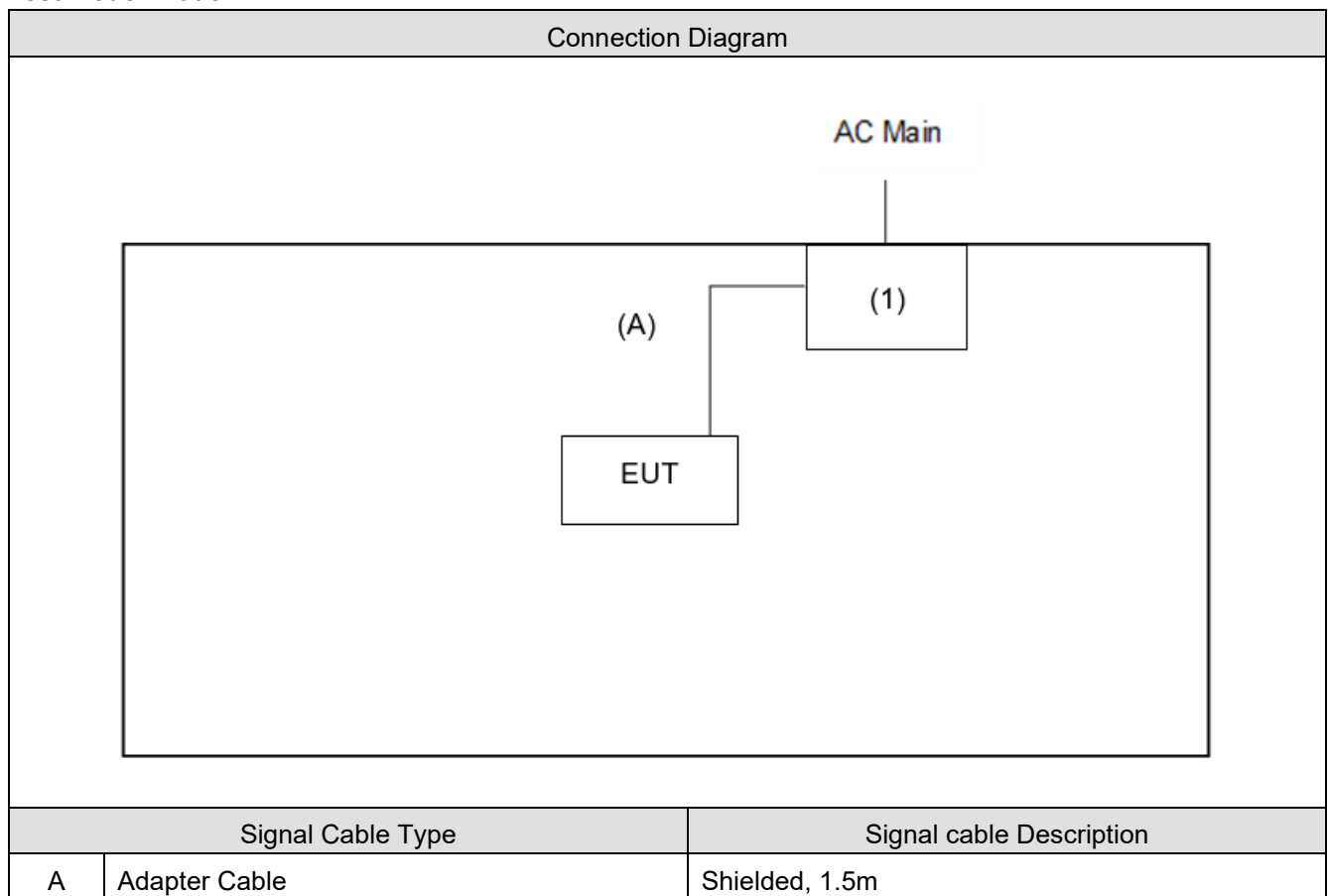
No.	Equipment	Brand Name	Model No.	Serial No.
1	Adaptor	Channel Well Technology Co., Ltd	N/A	-

Test Mode: Mode 2 / Mode 3

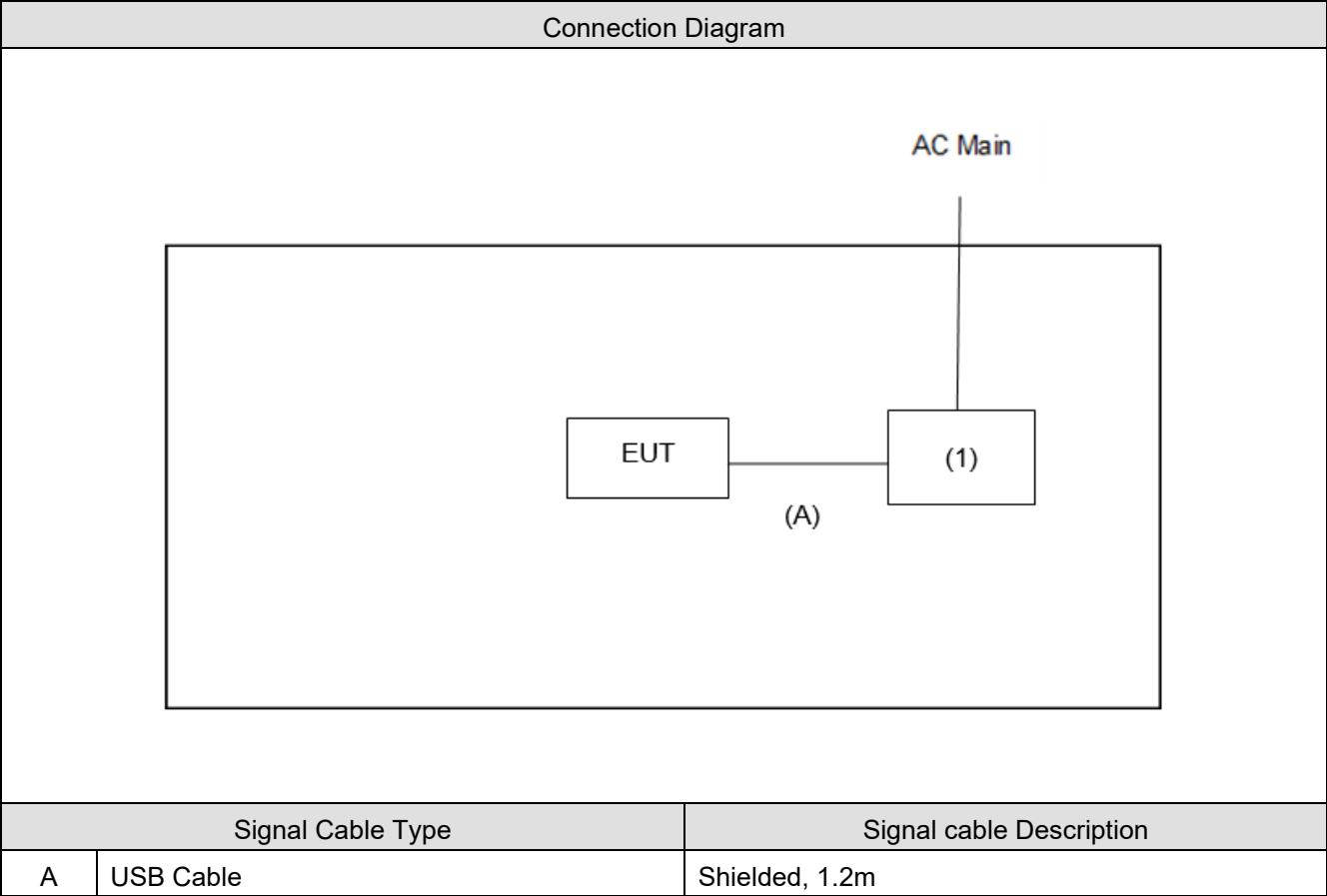
No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	Lenovo	Lenovo Ideapad 320	PF0SXXY1

2.6. Configuration of Tested System

Test Mode: Mode 1

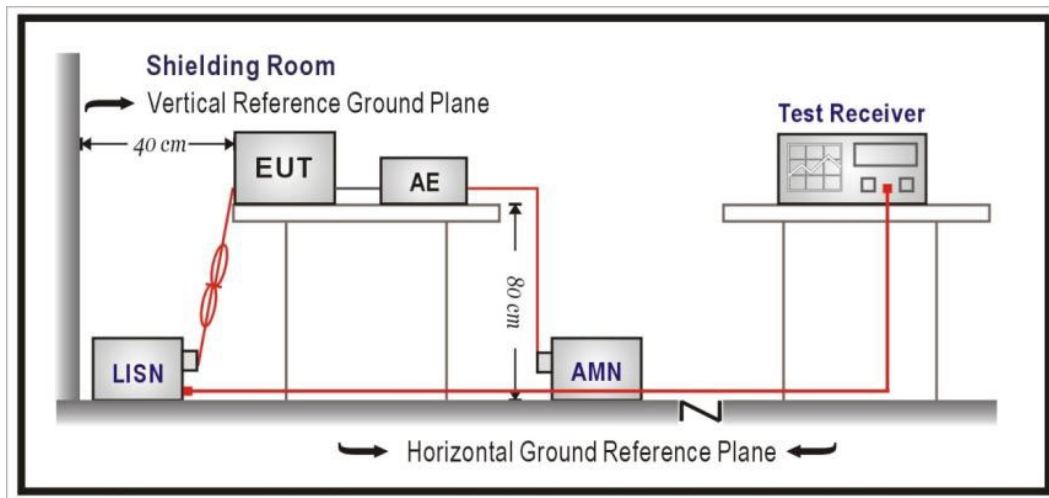


Test Mode: Mode 2 / Mode 3



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

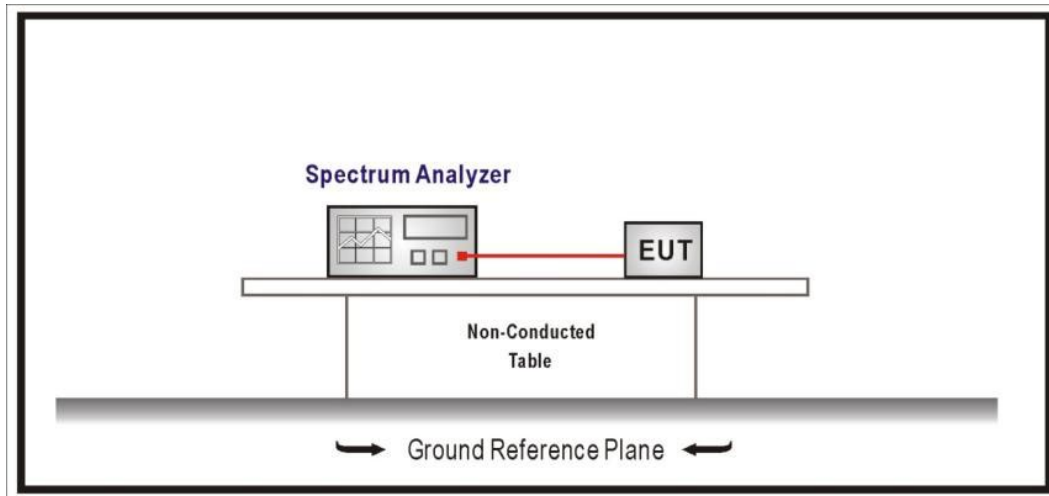
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & DTS Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: N/A

4.3. Test Procedures

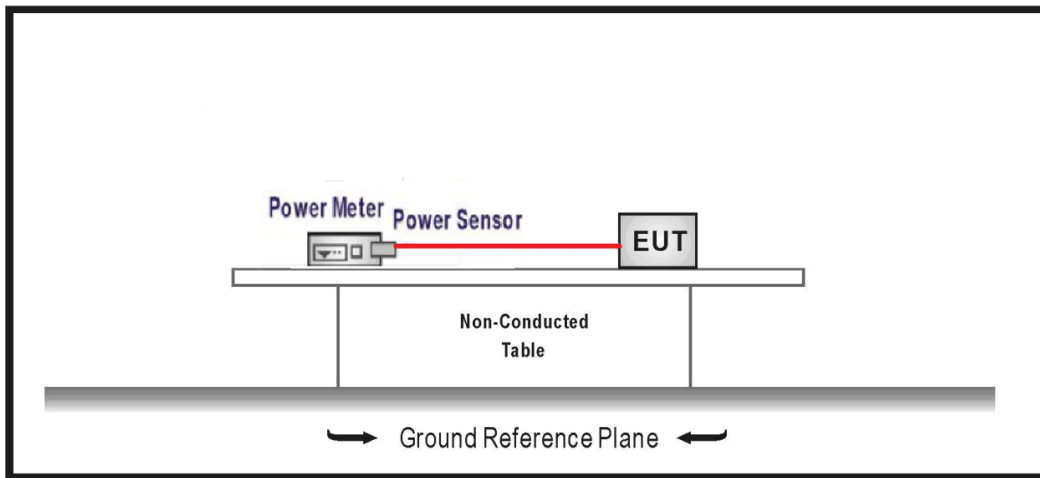
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

5.3. Test Procedures

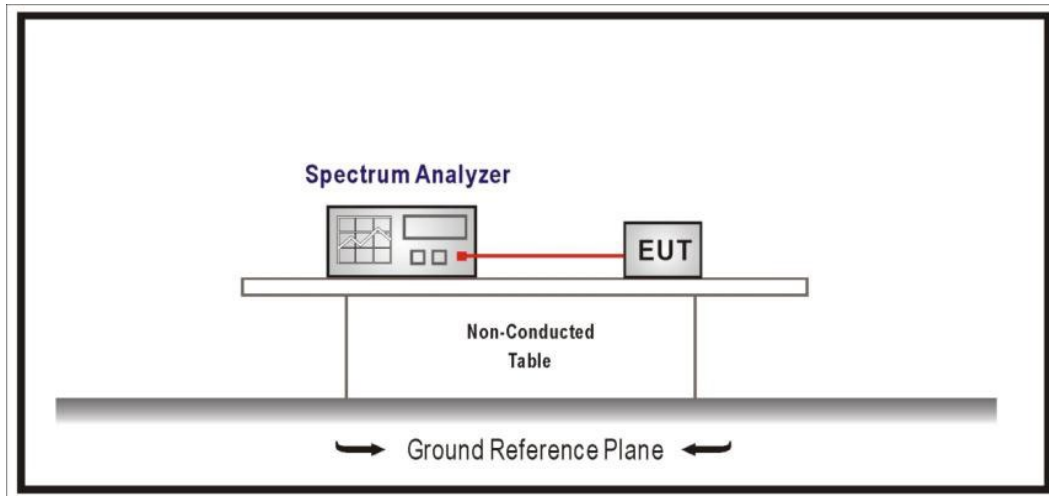
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

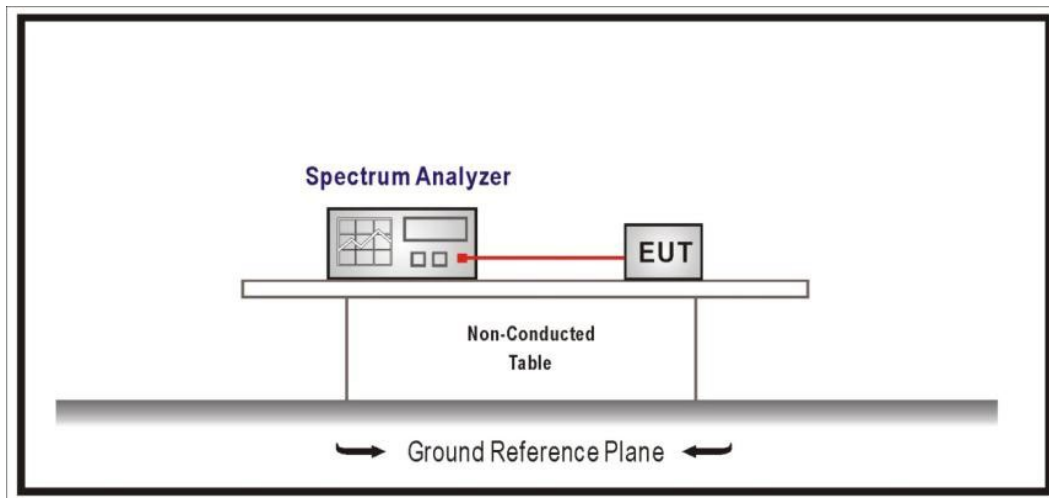
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

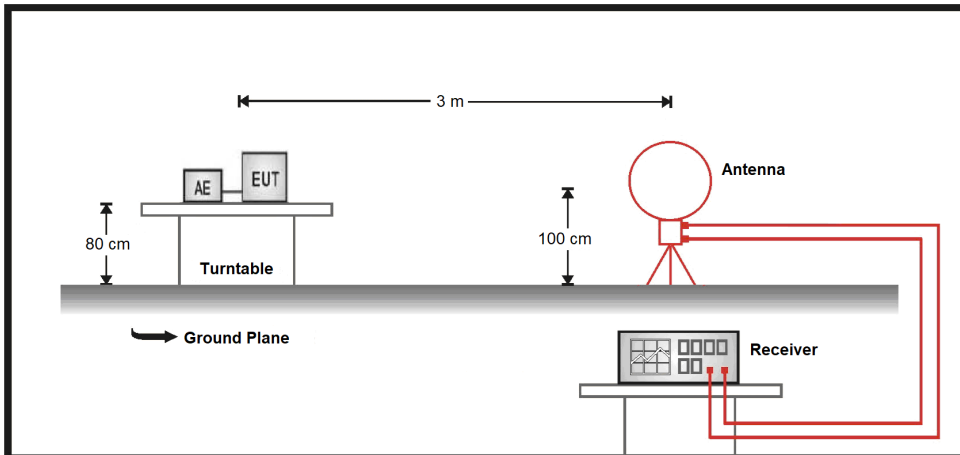
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

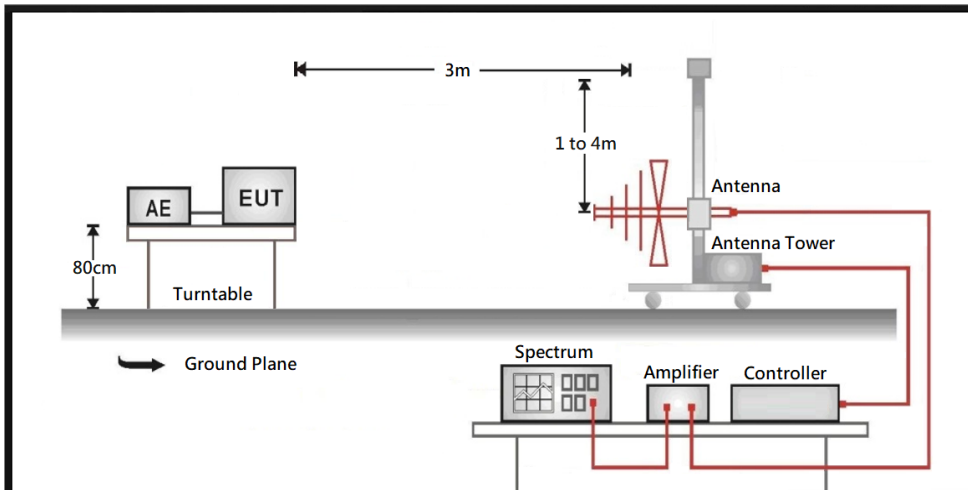
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

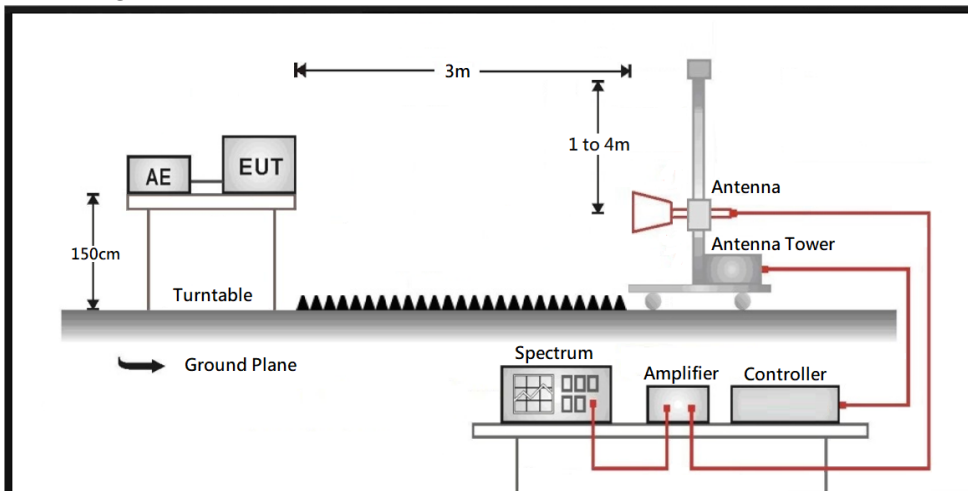
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Transmitter Radiated Spurious Emission (Below 30 MHz)

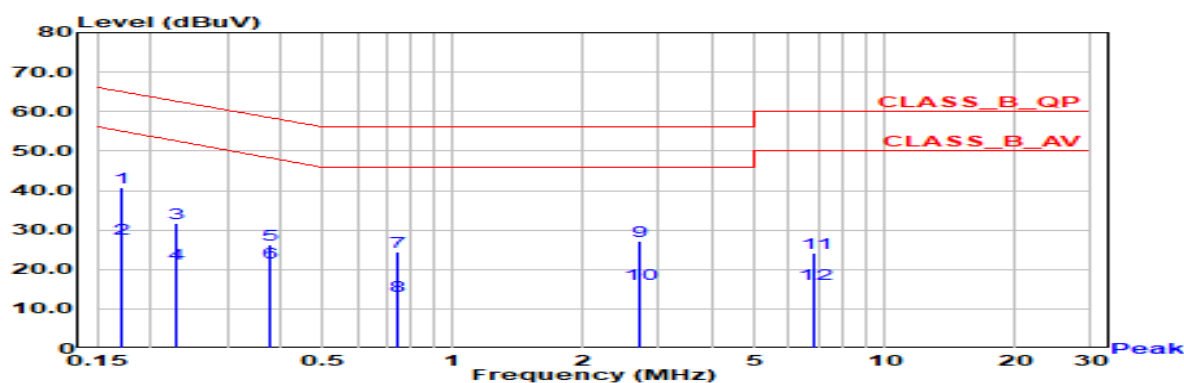
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8.5. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix F

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1	Phase	Line
Test Condition	WiFi 2.4GHz		

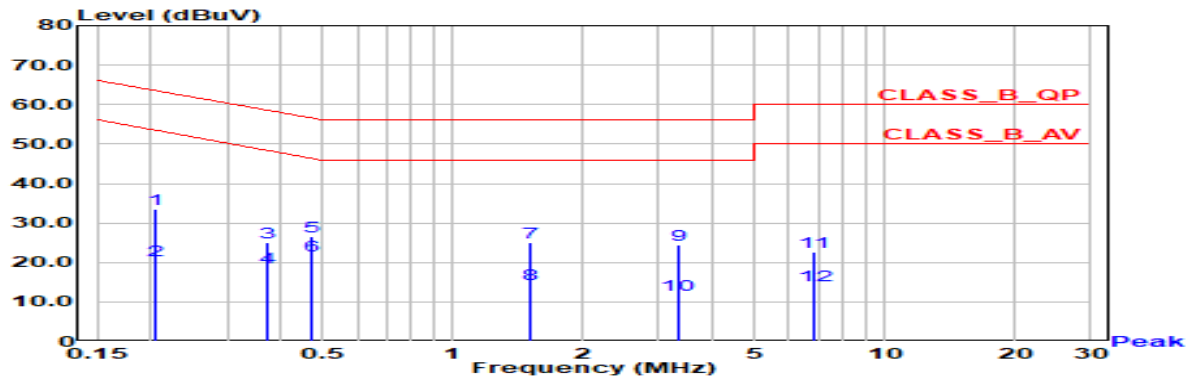


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.171	40.81	64.93	-24.12	31.19	9.62	QP
2	0.171	27.78	54.93	-27.15	18.16	9.62	AV
3	0.229	31.80	62.48	-30.68	22.18	9.63	QP
4	0.229	21.40	52.48	-31.09	11.77	9.63	AV
5	0.375	26.33	58.39	-32.06	16.69	9.64	QP
6	0.375	21.76	48.39	-26.62	12.13	9.64	AV
7	0.741	24.41	56.00	-31.59	14.73	9.67	QP
8	0.741	13.38	46.00	-32.62	3.70	9.67	AV
9	2.702	27.26	56.00	-28.74	17.46	9.79	QP
10	2.702	16.38	46.00	-29.62	6.58	9.79	AV
11	6.887	24.15	60.00	-35.85	14.19	9.96	QP
12	6.887	16.36	50.00	-33.64	6.39	9.96	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1	Phase	Neutral
Test Condition	WiFi 2.4GHz		

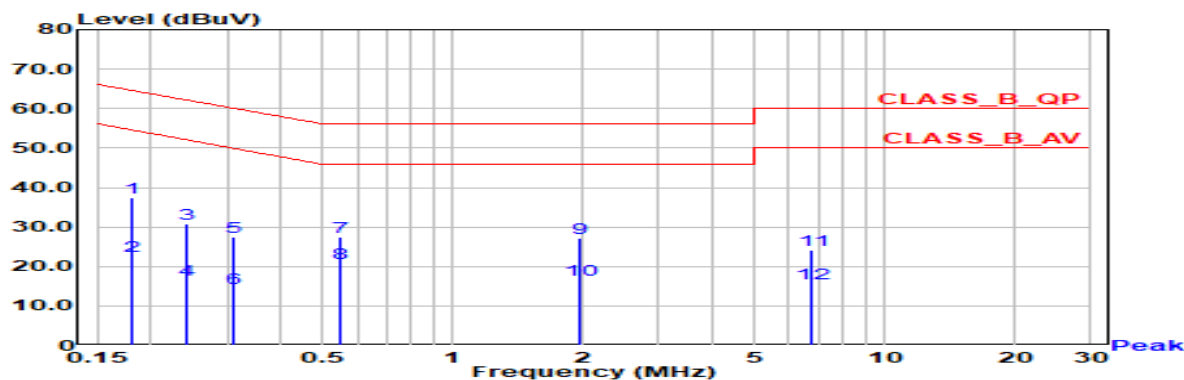


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.205	33.63	63.41	-29.78	24.01	9.62	QP
2	0.205	20.48	53.41	-32.93	10.85	9.62	AV
3	0.371	25.16	58.47	-33.32	15.52	9.64	QP
4	0.371	18.72	48.47	-29.76	9.08	9.64	AV
5	0.472	26.71	56.47	-29.77	17.06	9.65	QP
*6	0.472	21.66	46.47	-24.82	12.01	9.65	AV
7	1.508	25.02	56.00	-30.98	15.28	9.74	QP
8	1.508	14.63	46.00	-31.37	4.89	9.74	AV
9	3.310	24.50	56.00	-31.50	14.67	9.83	QP
10	3.310	11.79	46.00	-34.21	1.95	9.83	AV
11	6.837	22.68	60.00	-37.33	12.68	9.99	QP
12	6.837	14.06	50.00	-35.94	4.07	9.99	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Line
Test Condition	WiFi 2.4GHz		

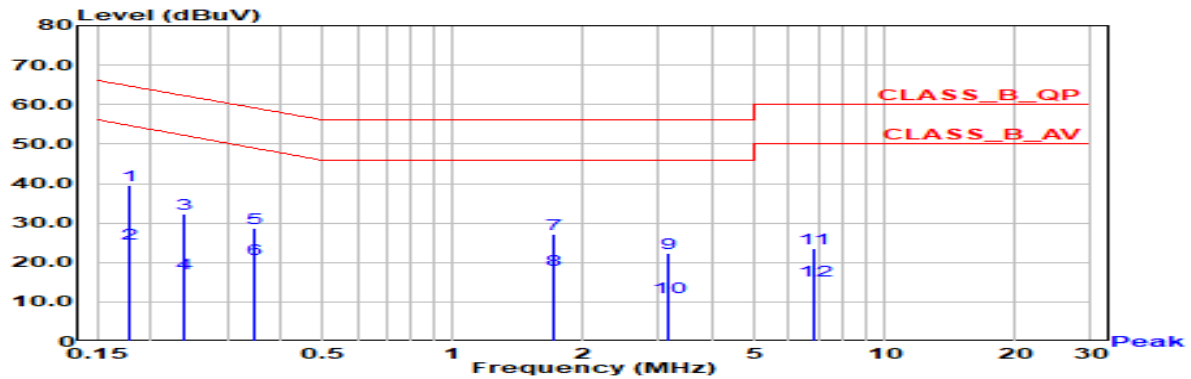


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.180	37.36	64.48	-27.12	27.74	9.62	QP
2	0.180	22.77	54.48	-31.70	13.15	9.62	AV
3	0.243	30.70	62.01	-31.31	21.07	9.63	QP
4	0.243	16.61	52.01	-35.39	6.98	9.63	AV
5	0.311	27.52	59.94	-32.42	17.88	9.63	QP
6	0.311	14.48	49.94	-35.46	4.85	9.63	AV
7	0.552	27.53	56.00	-28.47	17.87	9.66	QP
*8	0.552	20.75	46.00	-25.25	11.09	9.66	AV
9	1.964	27.07	56.00	-28.93	17.31	9.77	QP
10	1.964	16.51	46.00	-29.49	6.74	9.77	AV
11	6.786	24.22	60.00	-35.78	14.23	9.99	QP
12	6.786	15.78	50.00	-34.22	5.79	9.99	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Neutral
Test Condition	WiFi 2.4GHz		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.179	39.53	64.53	-25.00	29.91	9.62	QP
2	0.179	24.77	54.53	-29.76	15.14	9.62	AV
3	0.239	32.30	62.14	-29.83	22.68	9.63	QP
4	0.239	17.08	52.14	-35.05	7.46	9.63	AV
5	0.347	28.72	59.04	-30.32	19.08	9.64	QP
6	0.347	20.83	49.04	-28.21	11.19	9.64	AV
7	1.707	27.15	56.00	-28.85	17.39	9.75	QP
8	1.707	18.12	46.00	-27.88	8.37	9.75	AV
9	3.169	22.47	56.00	-33.53	12.64	9.82	QP
10	3.169	11.05	46.00	-34.95	1.23	9.82	AV
11	6.832	23.43	60.00	-36.57	13.44	9.99	QP
12	6.832	15.51	50.00	-34.49	5.52	9.99	AV

Note:

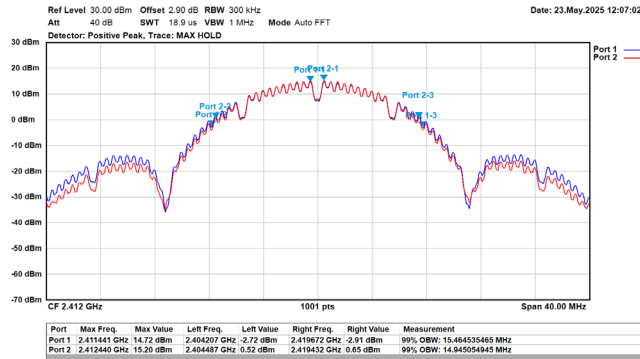
1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Appendix B.1 Test Result of Occupied Bandwidth

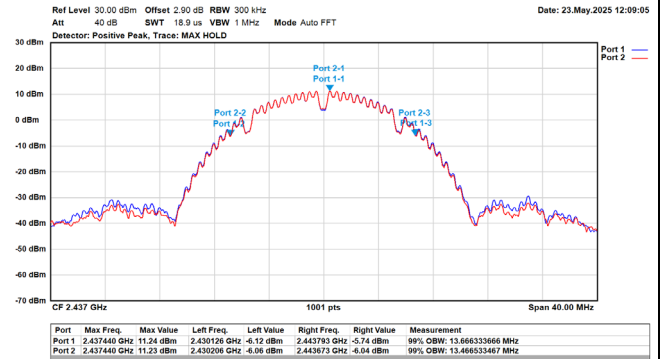
Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)		Limit (MHz)
		Ant. 1	Ant. 2	
802.11b	2412	15.46	14.95	-
	2437	13.67	13.47	-
	2462	13.59	13.55	-
802.11g	2412	16.82	16.58	-
	2437	16.98	16.66	-
	2462	16.74	16.58	-
802.11n (20 MHz)	2412	17.74	17.62	-
	2437	19.70	18.94	-
	2462	17.62	17.58	-
802.11n (40 MHz)	2422	36.12	36.28	-
	2437	36.12	36.20	-
	2452	36.12	36.04	-

Spectrum plot of maximum value

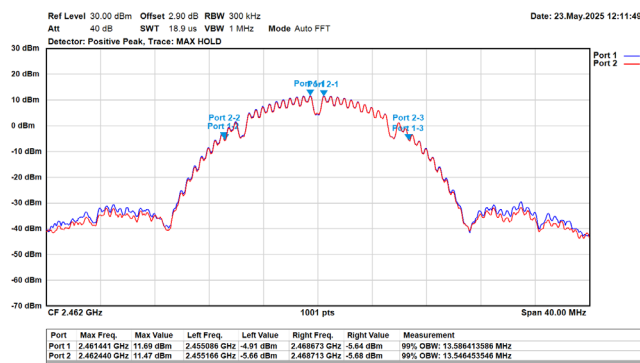
802.11b / 2412 MHz



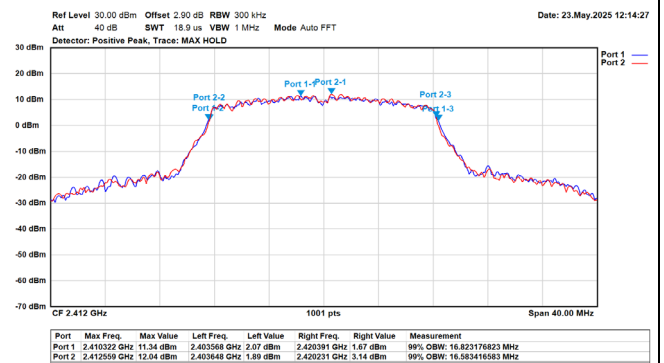
802.11b / 2437 MHz



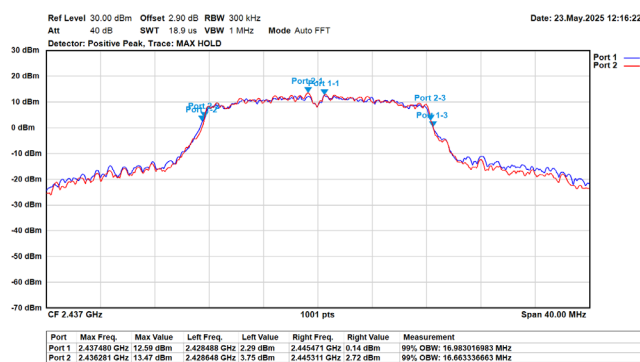
802.11b / 2462 MHz



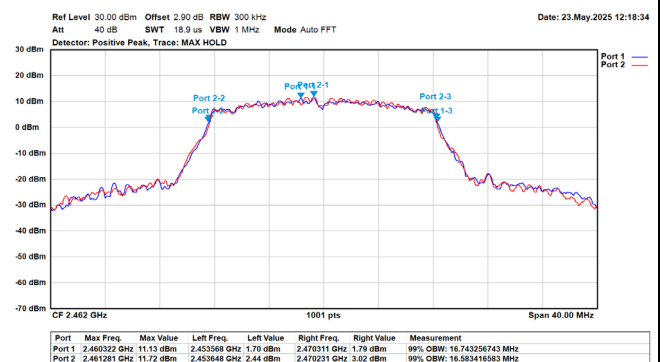
802.11g / 2412 MHz



802.11g / 2437 MHz

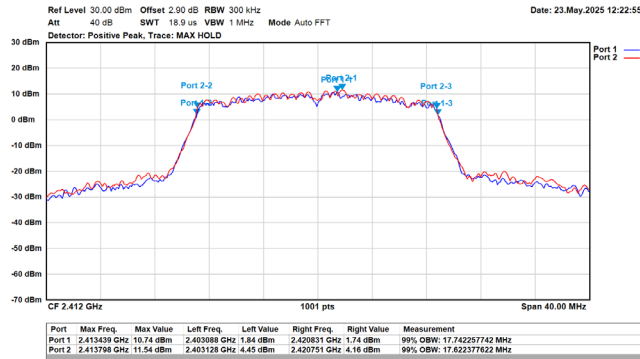


802.11g / 2462 MHz

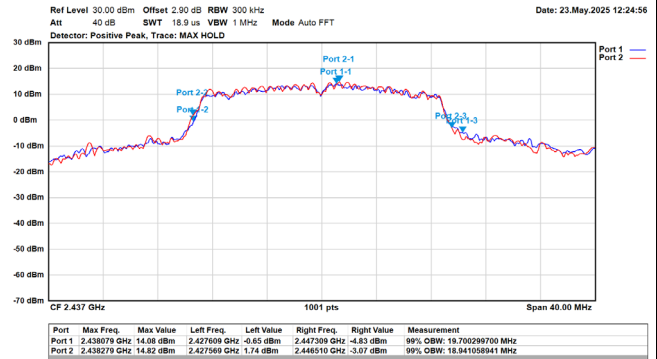


Spectrum plot of maximum value

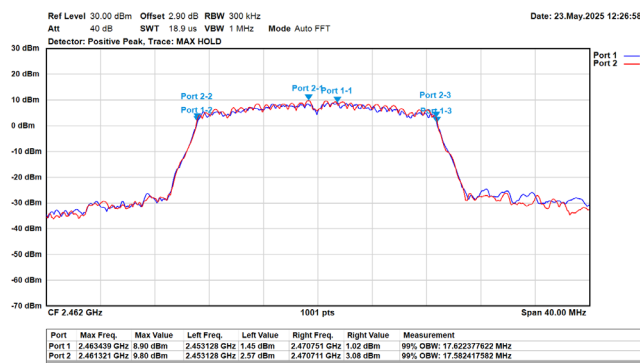
802.11n (20 MHz) / 2412 MHz



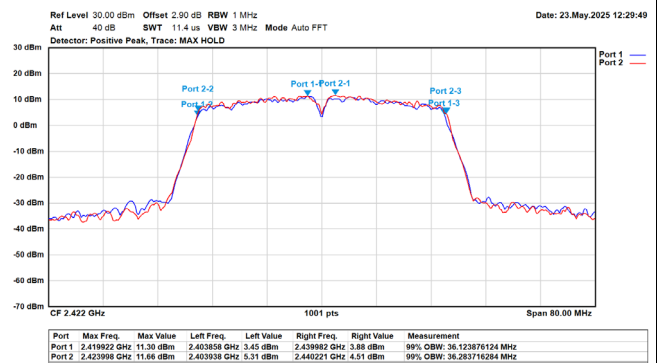
802.11n (20 MHz) / 2437 MHz



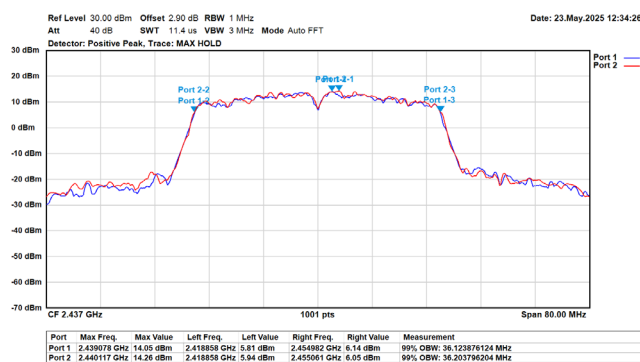
802.11n (20 MHz) / 2462 MHz



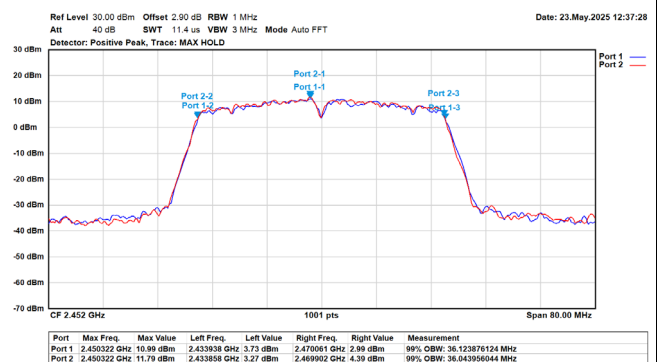
802.11n (40 MHz) / 2422 MHz



802.11n (40 MHz) / 2437 MHz



802.11n (40 MHz) / 2452 MHz

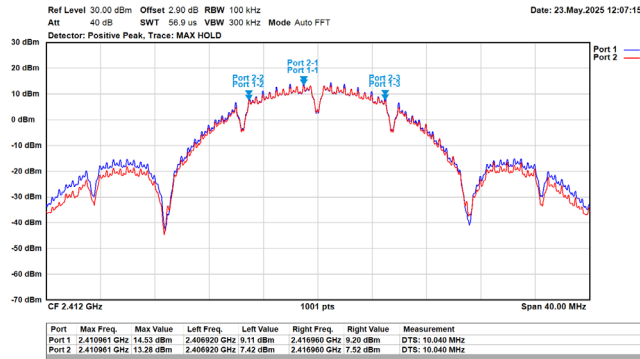


Appendix B.2 Test Result of DTS Bandwidth

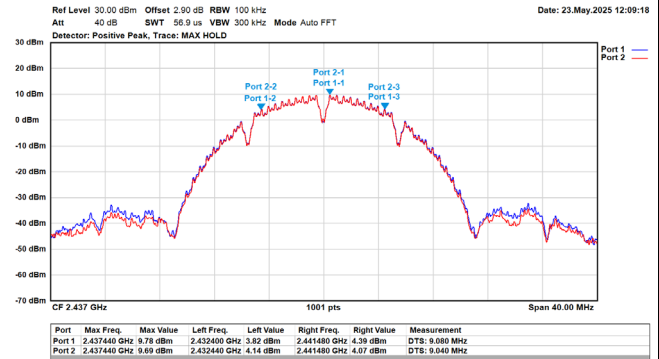
Modulation	Frequency (MHz)	DTS Bandwidth (MHz)		Limit (MHz)	Result
		Ant. 1	Ant. 2		
802.11b	2412	10.04	10.04	0.50	Pass
	2437	9.08	9.04	0.50	Pass
	2462	9.08	9.08	0.50	Pass
802.11g	2412	15.08	15.12	0.50	Pass
	2437	15.12	15.12	0.50	Pass
	2462	15.08	15.12	0.50	Pass
802.11n (20 MHz)	2412	15.12	15.72	0.50	Pass
	2437	15.12	15.72	0.50	Pass
	2462	15.12	15.72	0.50	Pass
802.11n (40 MHz)	2422	35.12	35.12	0.50	Pass
	2437	35.12	35.12	0.50	Pass
	2452	35.12	35.12	0.50	Pass

Spectrum plot of worst value

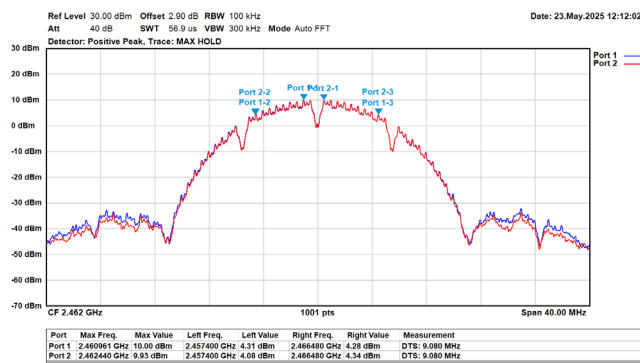
802.11b / 2412 MHz



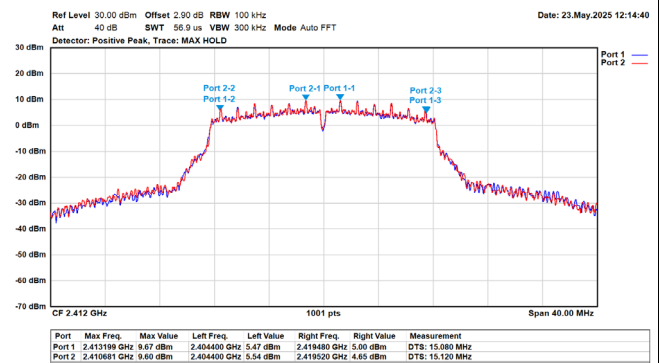
802.11b / 2437 MHz



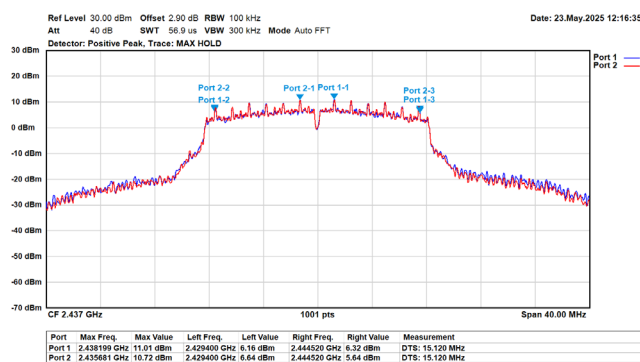
802.11b / 2462 MHz



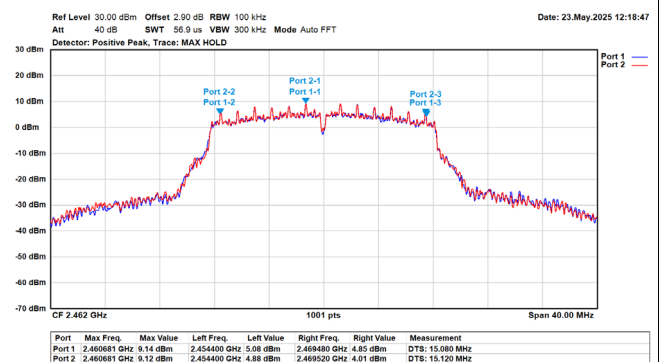
802.11g / 2412 MHz



802.11g / 2437 MHz

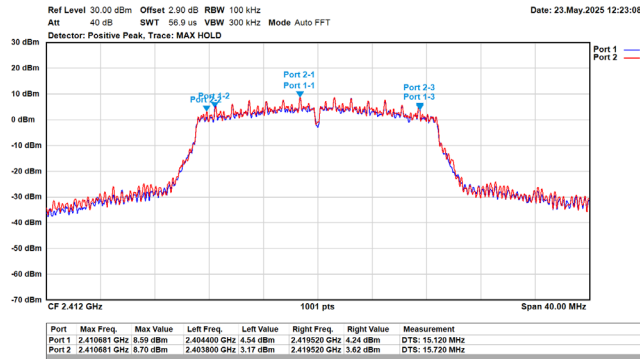


802.11g / 2462 MHz

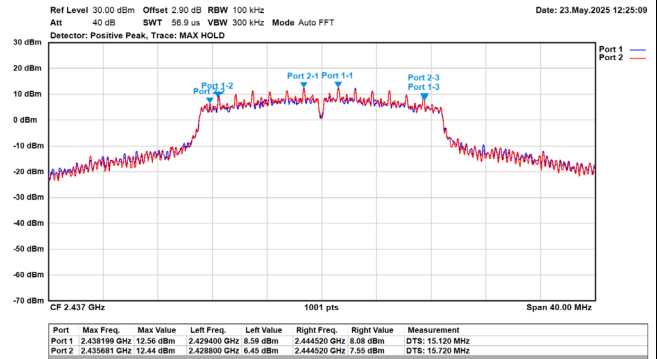


Spectrum plot of worst value

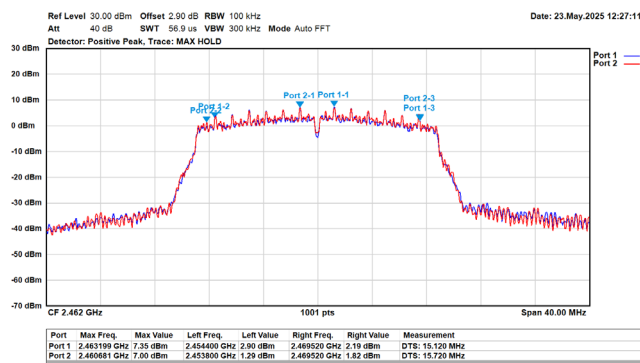
802.11n (20 MHz) / 2412 MHz



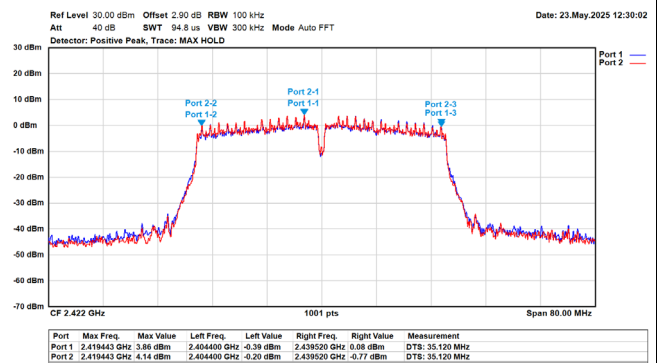
802.11n (20 MHz) / 2437 MHz



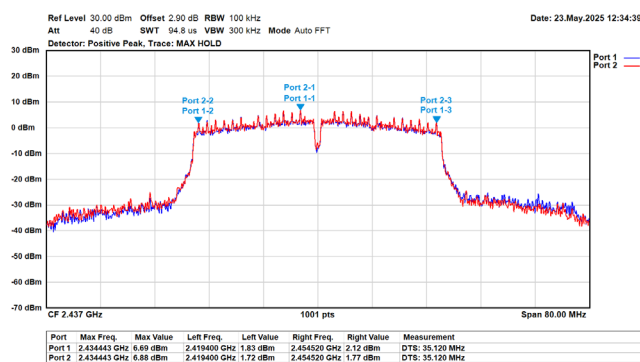
802.11n (20 MHz) / 2462 MHz



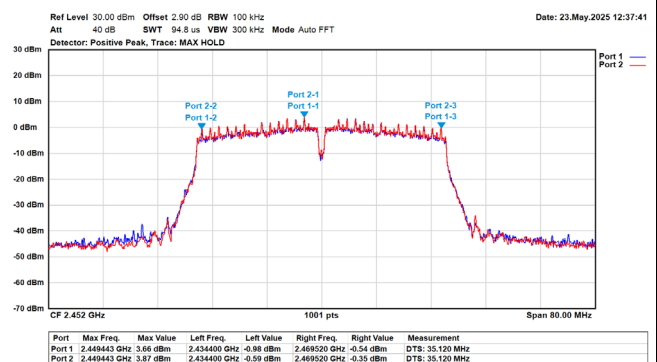
802.11n (40 MHz) / 2422 MHz



802.11n (40 MHz) / 2437 MHz



802.11n (40 MHz) / 2452 MHz



Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11b	2412	23.860	23.820	26.850	30.00	2.820	29.670	36.00
	2437	19.780	19.800	22.800	30.00	2.820	25.620	36.00
	2462	20.160	20.050	23.116	30.00	2.820	25.936	36.00
802.11g	2412	20.100	20.390	23.258	30.00	2.820	26.078	36.00
	2437	21.410	21.440	24.435	30.00	2.820	27.255	36.00
	2462	19.600	19.760	22.691	30.00	2.820	25.511	36.00
802.11n (20 MHz)	2412	19.210	19.510	22.373	30.00	2.820	25.193	36.00
	2437	22.580	22.950	25.779	30.00	2.820	28.599	36.00
	2462	17.810	17.970	20.901	30.00	2.820	23.721	36.00
802.11n (40 MHz)	2422	17.410	17.580	20.506	30.00	2.820	23.326	36.00
	2437	19.860	19.910	22.895	30.00	2.820	25.715	36.00
	2452	17.040	16.960	20.010	30.00	2.820	22.830	36.00

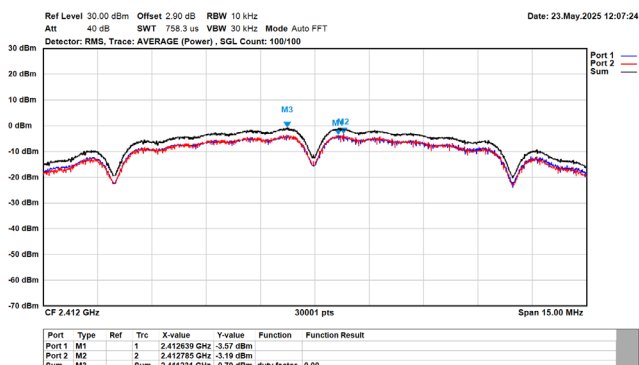
Note: E.I.R.P. = Maximum Conducted Output Power + Antenna Gain.

Appendix D. Test Result of Maximum Power Spectral Density

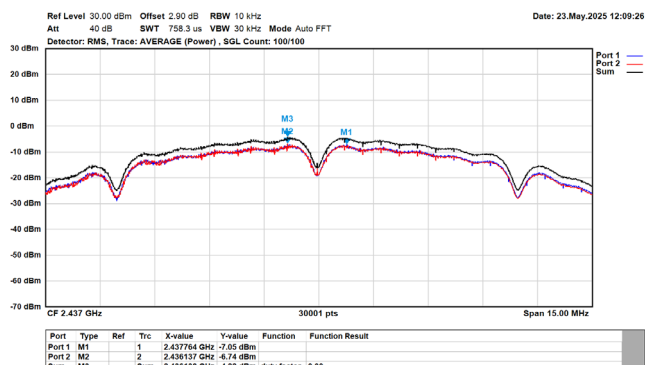
Modulation	Frequency (MHz)	Power Spectral Density (dBm/RBW)			Limit (dBm/3kHz)	Result
		Ant. 1	Ant. 2	Total		
802.11b	2412	-3.57	-3.19	-0.79	8.00	Pass
	2437	-7.05	-6.74	-4.22	8.00	Pass
	2462	-6.16	-6.44	-3.29	8.00	Pass
802.11g	2412	-8.15	-7.60	-5.01	8.00	Pass
	2437	-6.65	-6.60	-3.95	8.00	Pass
	2462	-8.65	-8.25	-5.34	8.00	Pass
802.11n (20 MHz)	2412	-8.53	-8.42	-5.29	8.00	Pass
	2437	-5.69	-5.30	-2.50	8.00	Pass
	2462	-10.44	-9.76	-7.25	8.00	Pass
802.11n (40 MHz)	2422	-13.86	-13.58	-10.55	8.00	Pass
	2437	-11.05	-10.78	-7.80	8.00	Pass
	2452	-13.72	-13.23	-10.11	8.00	Pass

Spectrum plot of worst value

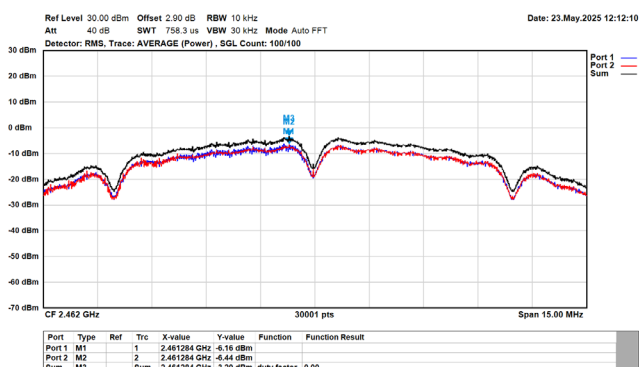
802.11b / 2412 MHz



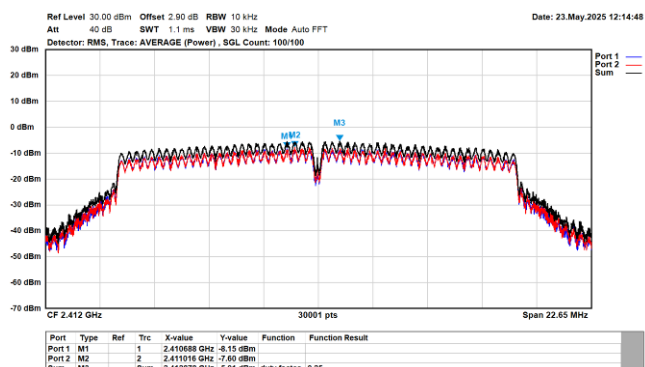
802.11g / 2437 MHz



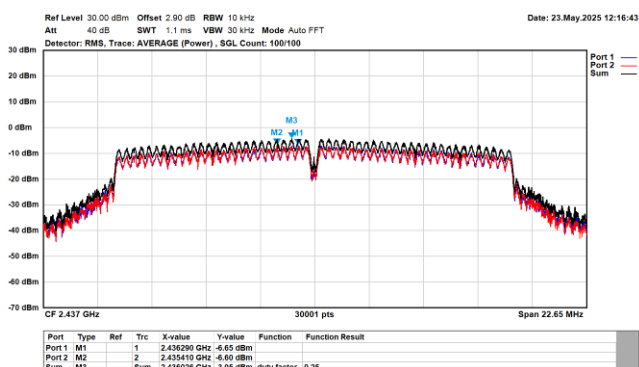
802.11b / 2462 MHz



802.11g / 2412 MHz



802.11g / 2437 MHz



802.11g / 2462 MHz

