

Test Report No:
2450487R-RFUSV01S-B

TEST REPORT

FCC Rules&Regulations

Product Name	Collection ECU
Brand Name	Bosch
Model No.	7 507650 603
FCC ID	2AMJS-VDC01
Applicant's Name / Address	Robert Bosch LLC 15000 N Haggerty Rd, Plymouth, MI 48170 United States of America
Manufacturer's Name / Address	Chicony Electronics Co., Ltd 36F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241, 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 21, 2024
Date of Issue	Mar. 17, 2024
Report Version	V1.0

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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	Mar. 17, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
-	AC Power Line Conducted Emission	N/A	Note 1
3	Occupied Bandwidth & DTS Bandwidth	PASS	-
4	Maximum Conducted Output Power	PASS	-
5	Maximum Power Spectral Density	PASS	-
6	Antenna Port Conducted Emission	PASS	-
7	Transmitter Radiated Spurious Emission	PASS	-

Note:

1. It was supplied power by DC-Powered for EUT. It's not necessary to apply to AC Power Line Conducted Emission test.
2. The EUT contains a certified WWAN module (brand name: Quectel, model: EG25-G, FCC ID: XMR201903EG25G).

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
Channel Number	IEEE 802.11b/g IEEE 802.11n (20 MHz)	11 Channels
Type of Modulation	IEEE 802.11b	DSSS-DBPSK, DQPSK, CCK
	IEEE 802.11g/n	OFDM-BPSK, QPSK, 16QAM, 64QAM

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Car Charger	Bosch	SYD1226	12-24VDC, 5A MAX
No.	Equipment Name		Description	
2	Double shield Fakra cable		Shielded, 4500mm	

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
1	Speed	0790A2219L B02	Dipole	1.83

For IEEE 802.11b/g/n Mode: (1TX, 1RX)

Only Ant. 1 can be used as transmitting/receiving antenna.

1.2. EUT Information

EUT Power Type	From DC power supply			
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 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
RF Conducted Emission	HC-SR12	Clemens Fang	21.5~25.5 / 55~61	2024/07/23~2024/08/10
Radiated Emission	HC-CB04	Ling Chen, Cyril Chen	22.9~24.5 / 41~45, 22 / 66	2024/07/18~2024/07/22, 2024/12/23

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
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-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2023/10/25	2024/10/24
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

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	2024/05/17	2025/05/16
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	2023/11/17	2024/11/16
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	2024/02/02	2025/02/01
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
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2023/10/03	2024/10/02
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2024/10/15	2025/10/14
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2023/11/27	2024/11/26
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2024/11/15	2025/11/14
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2023/10/13	2024/10/12
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2024/10/17	2025/10/16
Coaxial Cable(11m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2023/08/08	2024/08/07
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2024/08/07	2025/08/06
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18G-40 GHz	2023/08/14	2024/08/13
Coaxial Cable	Huber+Suhner, Rosnol	SF102_UP0264	HC-CB04-1	18-40 GHz, 3m	2024/08/13	2025/08/12
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	DC 12V

2.2. Test Frequency Mode

Test Software Version	Tera Term 4.106
-----------------------	-----------------

Modulation	Frequency (MHz)	Power Setting
802.11b	2412	77.0
	2417	79.0
	2437	83.0
	2452	80.0
	2457	73.0
	2462	70.0
802.11g	2412	68.0
	2417	72.0
	2422	79.0
	2437	83.0
	2452	77.0
	2457	71.0
	2462	61.0
802.11n (20 MHz)	2412	70.0
	2417	74.0
	2422	79.0
	2437	83.0
	2452	77.0
	2457	74.0
	2462	66.0

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.560	8.760	97.72%	0.100	0.117
802.11g	1.410	1.580	89.24%	0.494	0.709
802.11n (20 MHz)	1.310	1.480	88.51%	0.530	0.763

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



2.4. The Worst Case Measurement Configuration

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
Operating Mode > 1GHz	Transmit
The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test. The worst case was found at X axis, so the measurement will follow this same test configuration.	

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

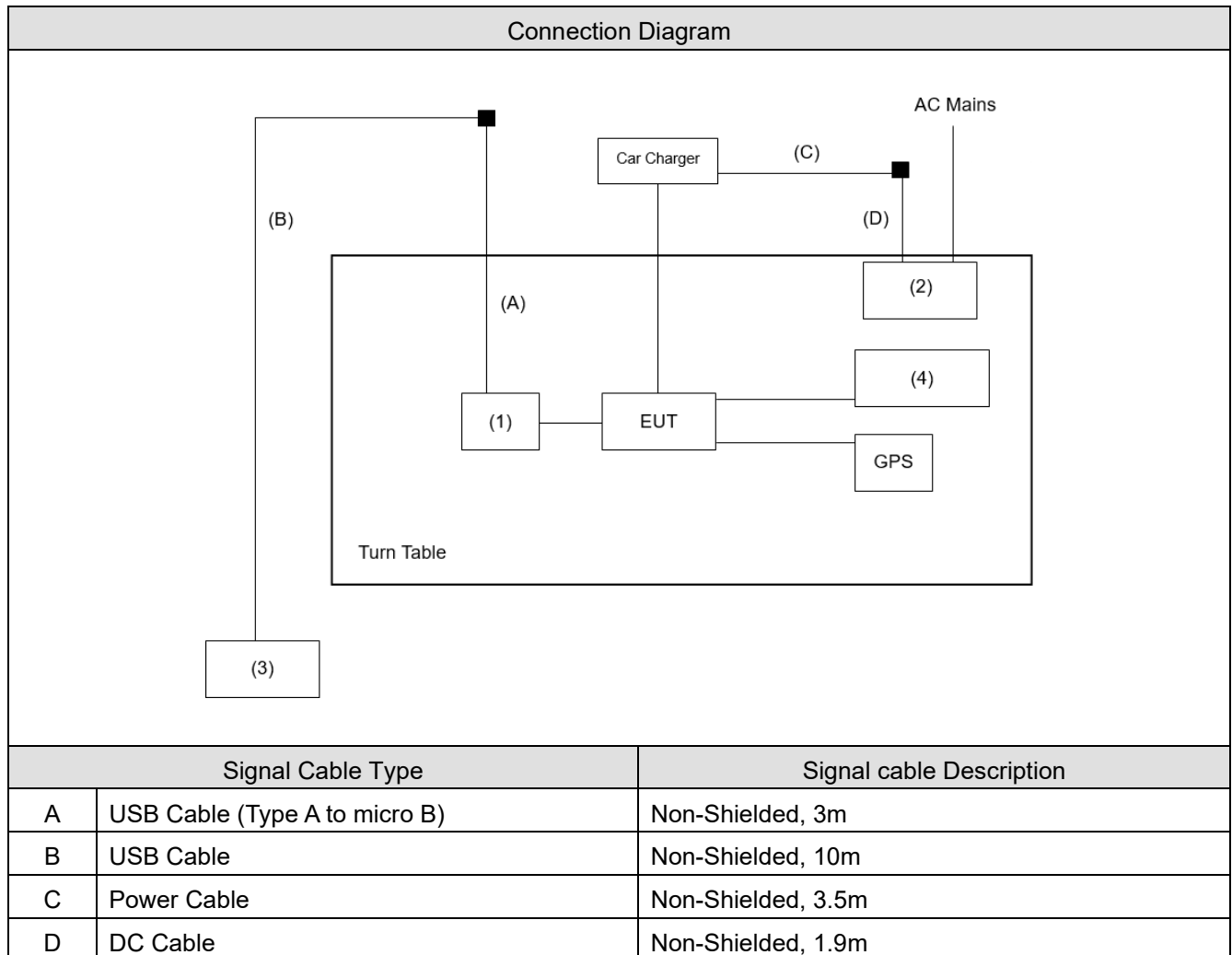
Note:

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 has performed all modes of operation were investigated and the worst-case emissions are reported.

2.5. Tested System Details

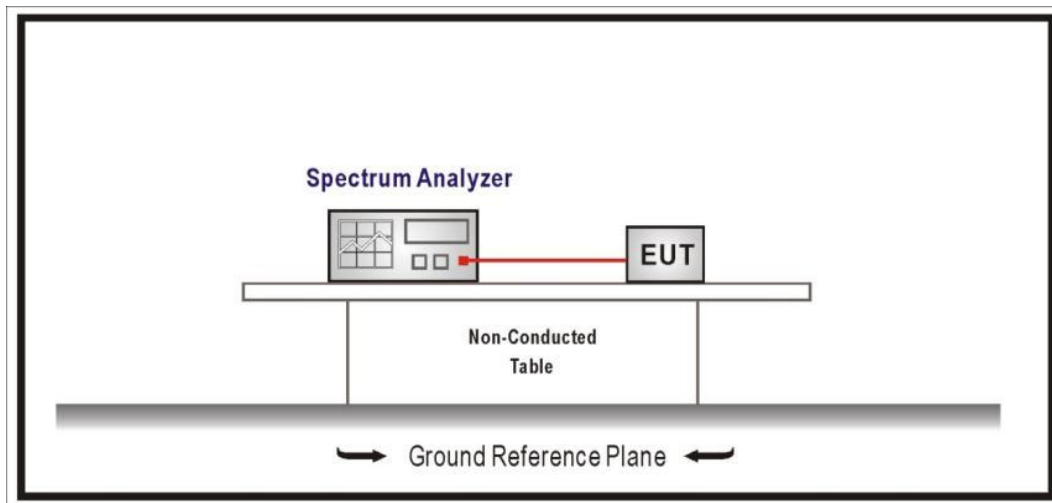
No.	Equipment	Brand Name	Model No.	Serial No.
1	Debug board	Chicony	N/A	N/A
2	Power supply	Topward	6030D	809501
3	Notebook	ASUS	E402S	GBN0CV14W050478
4	Collection cam	Bosch	0 220 M00 095 – 01	N/A

2.6. Configuration of Tested System



3. Occupied Bandwidth & DTS Bandwidth

3.1. Test Setup



3.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: N/A

3.3. Test Procedures

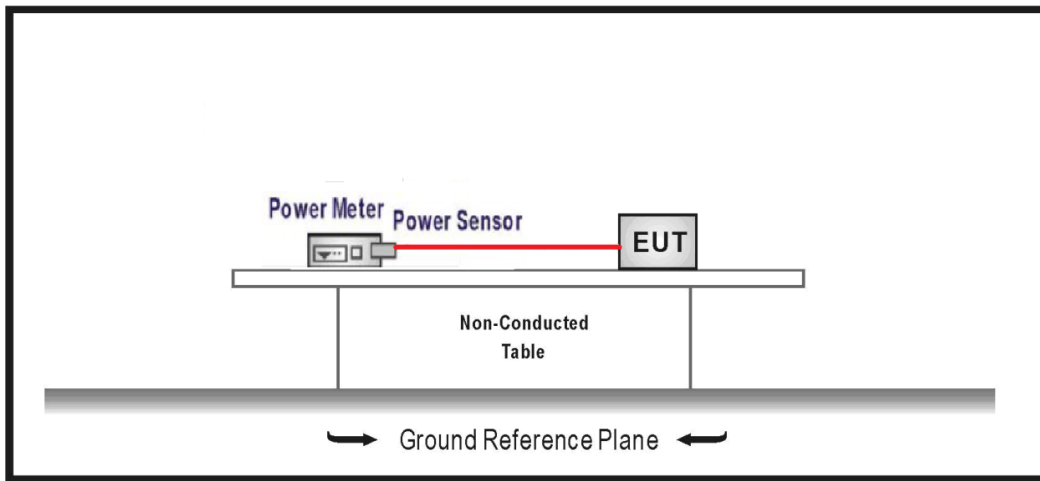
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

3.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix A

4. Maximum Conducted Output Power

4.1. Test Setup



4.2. Test Limit

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

4.3. Test Procedures

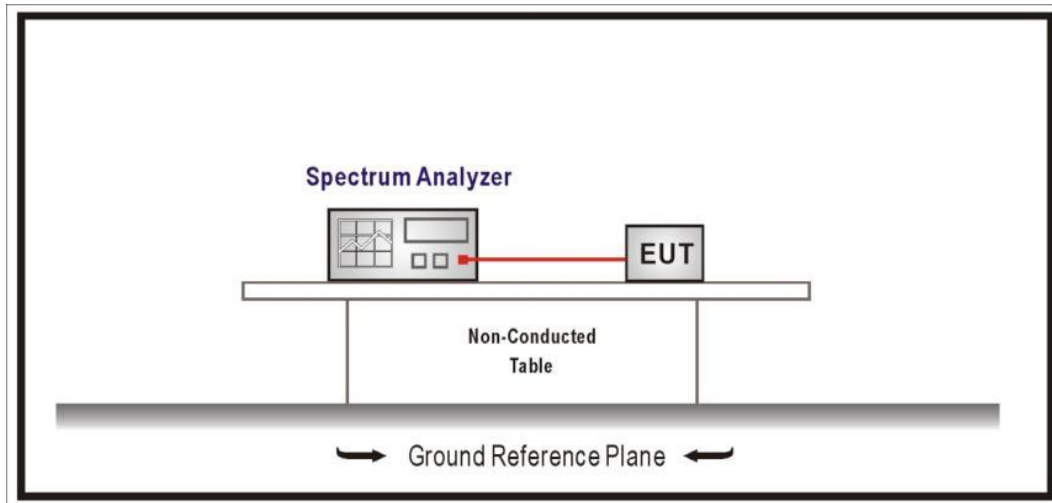
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Maximum Conducted Output Power

Refer as Appendix B

5. Maximum Power Spectral Density

5.1. Test Setup



5.2. 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.

5.3. Test Procedures

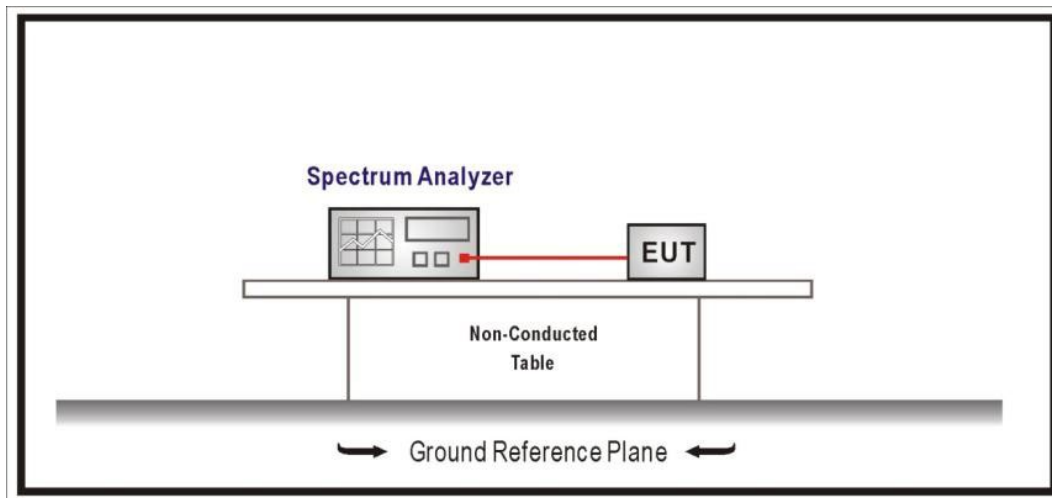
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Power Spectral Density

Refer as Appendix C

6. Antenna Port Conducted Emission

6.1. Test Setup



6.2. 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.

6.3. Test Procedure

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

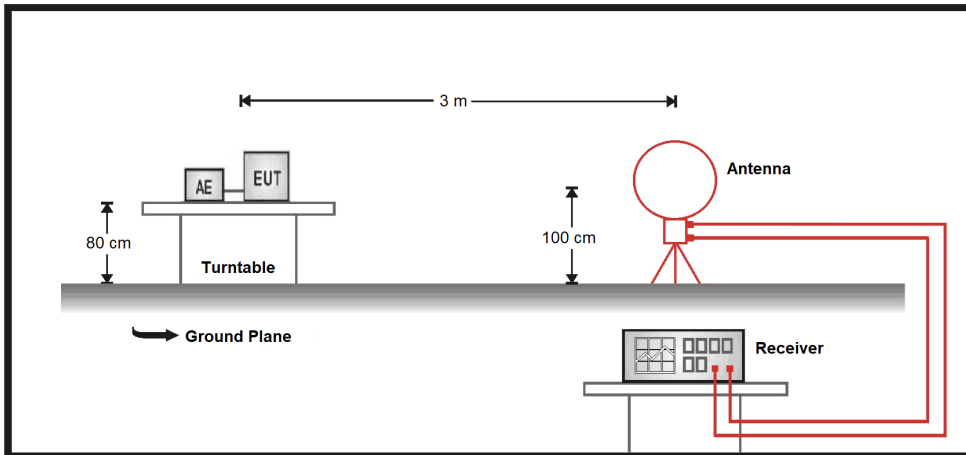
6.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix D

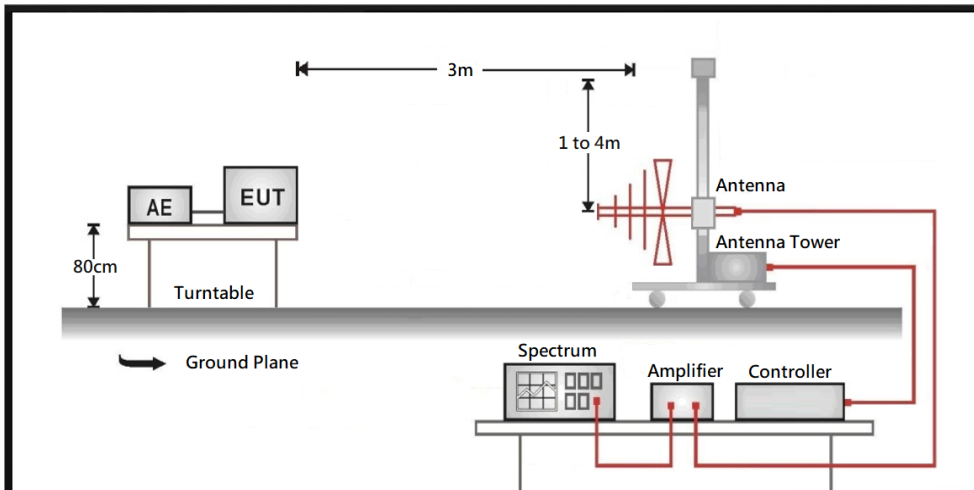
7. Transmitter Radiated Spurious Emission

7.1. Test Setup

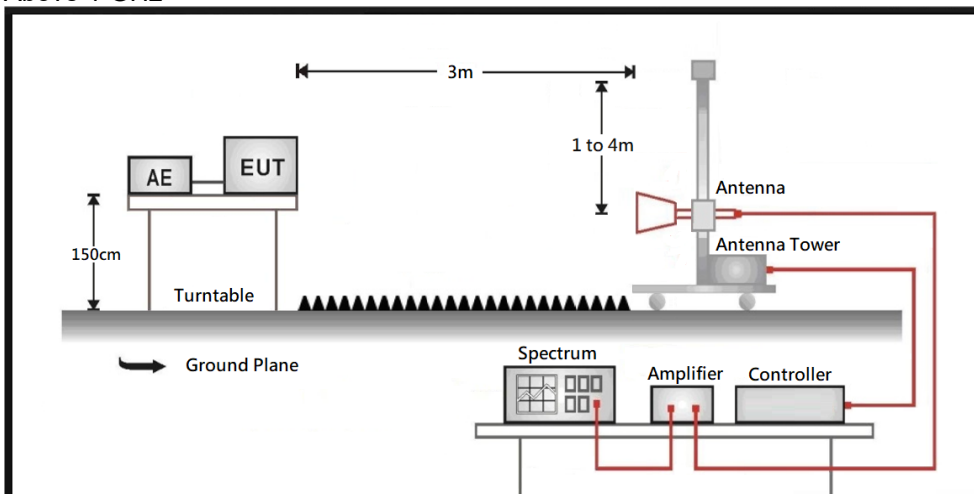
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. 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.

7.3. 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.

7.4. 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.

7.5. Test Result of Transmitter Radiated Spurious Emission

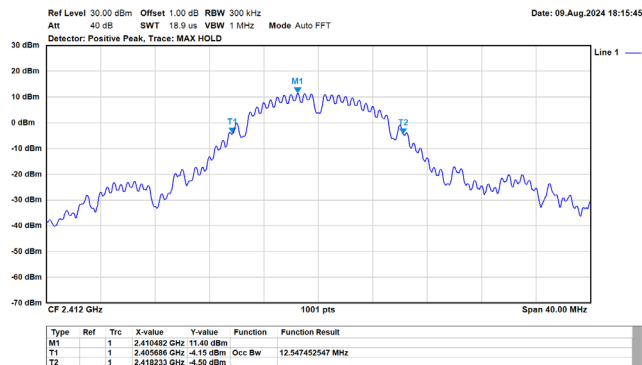
Refer as Appendix E

Appendix A.1 Test Result of Occupied Bandwidth

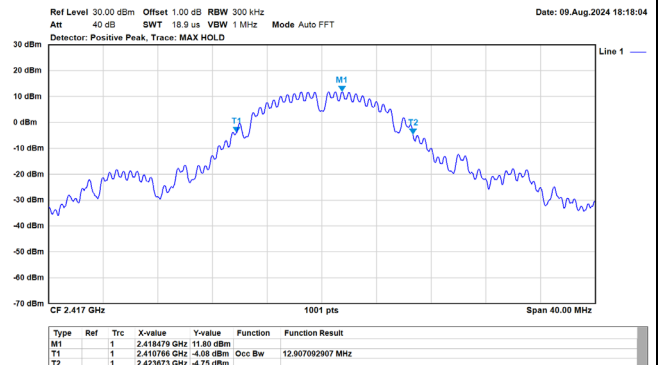
Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	2412	12.55	-
	2417	12.91	-
	2437	15.18	-
	2452	13.67	-
	2457	12.15	-
	2462	12.19	-
802.11g	2412	17.14	-
	2417	18.18	-
	2422	18.62	-
	2437	27.89	-
	2452	19.30	-
	2457	17.50	-
	2462	17.10	-
802.11n (20 MHz)	2412	18.18	-
	2417	18.82	-
	2422	21.14	-
	2437	18.06	-
	2452	18.38	-
	2457	18.18	-
	2462	18.14	-

Spectrum plot of maximum value

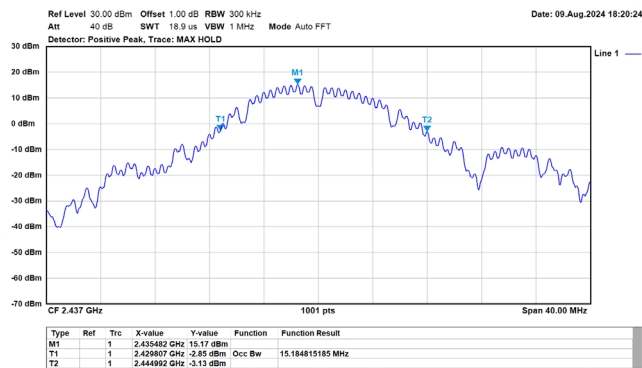
802.11b / 2412 MHz



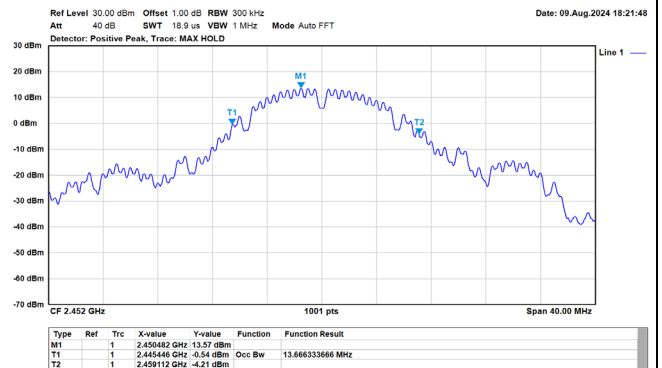
802.11b / 2417 MHz



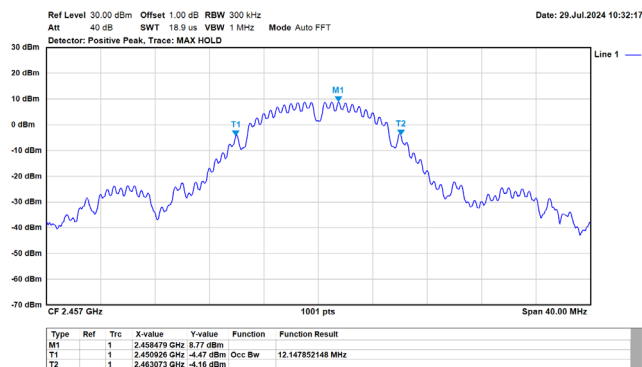
802.11b / 2437 MHz



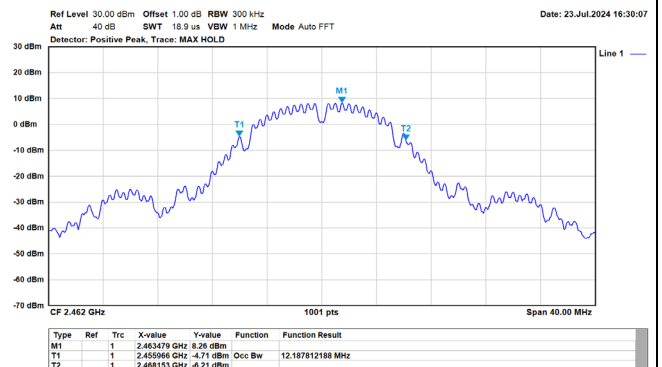
802.11b / 2452 MHz



802.11b / 2457 MHz

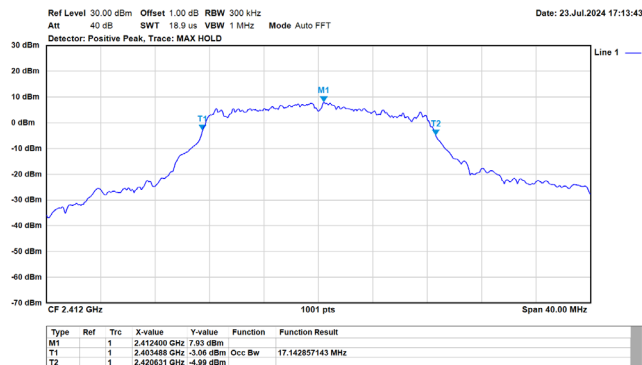


802.11b / 2462 MHz

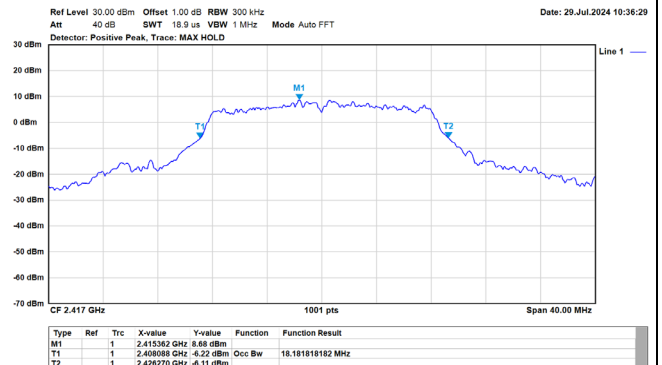


Spectrum plot of maximum value

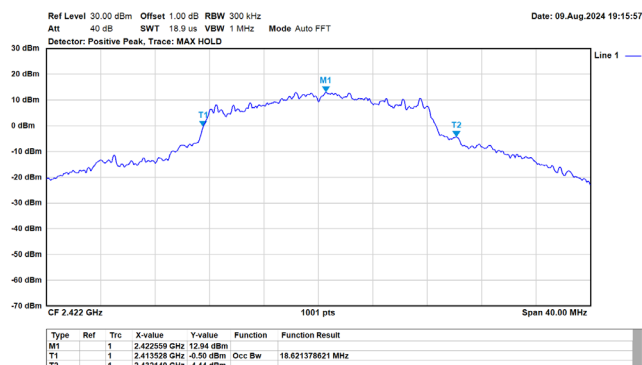
802.11g / 2412 MHz



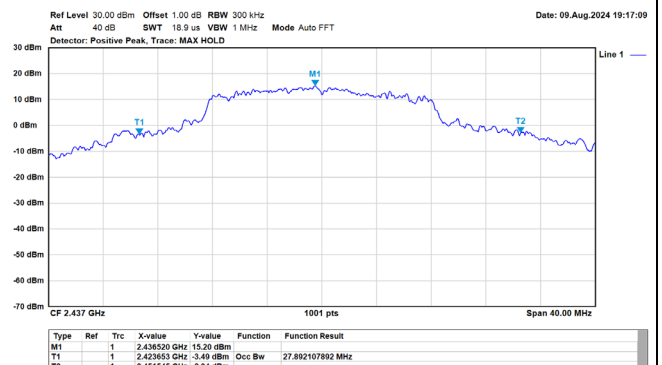
802.11g / 2417 MHz



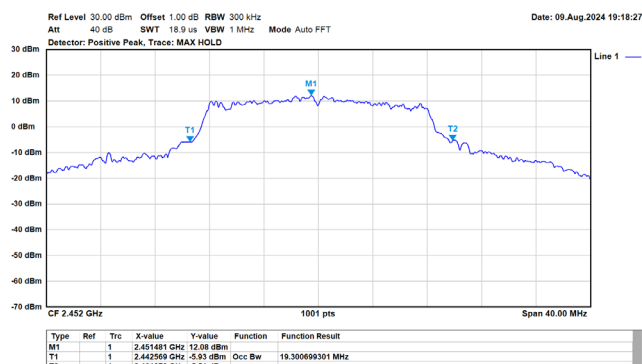
802.11g / 2422 MHz



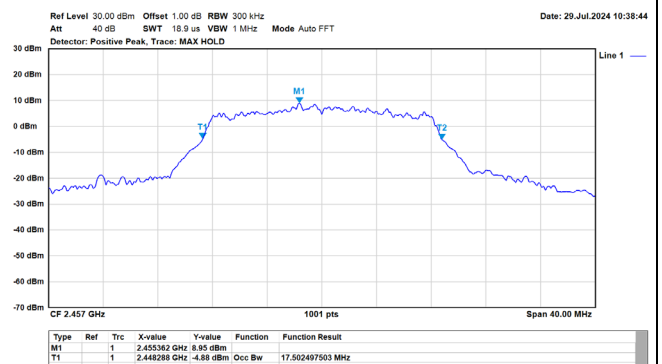
802.11g / 2437 MHz



802.11g / 2452 MHz

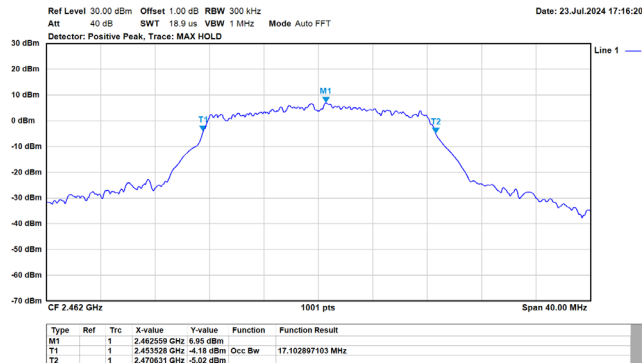


802.11g / 2457 MHz

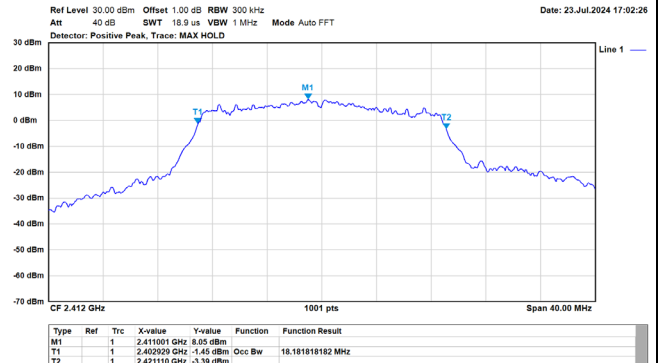


Spectrum plot of maximum value

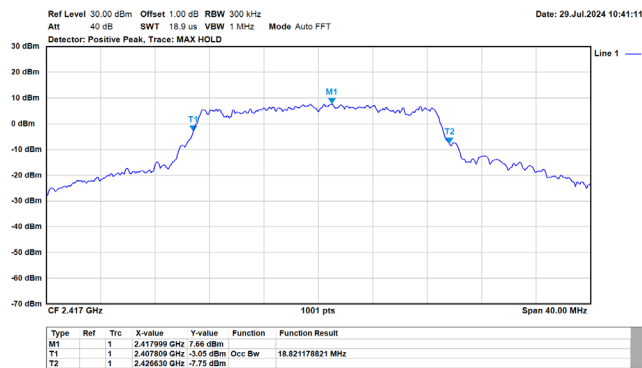
802.11g / 2462 MHz



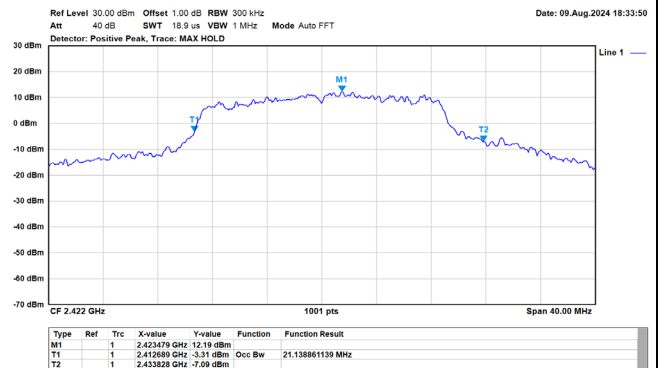
802.11n (20 MHz) / 2412 MHz



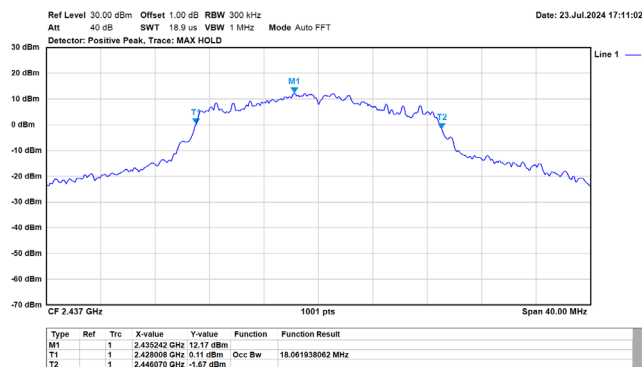
802.11n (20 MHz) / 2417 MHz



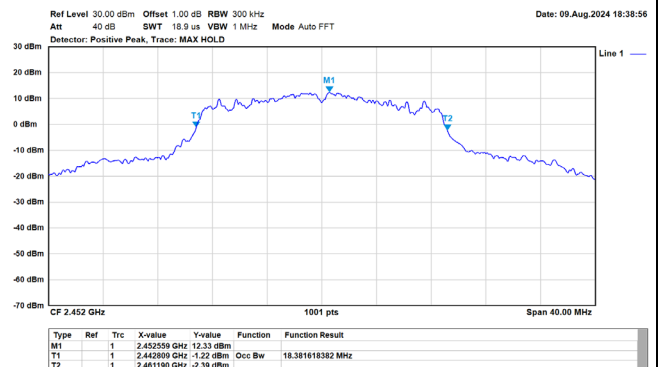
802.11n (20 MHz) / 2422 MHz

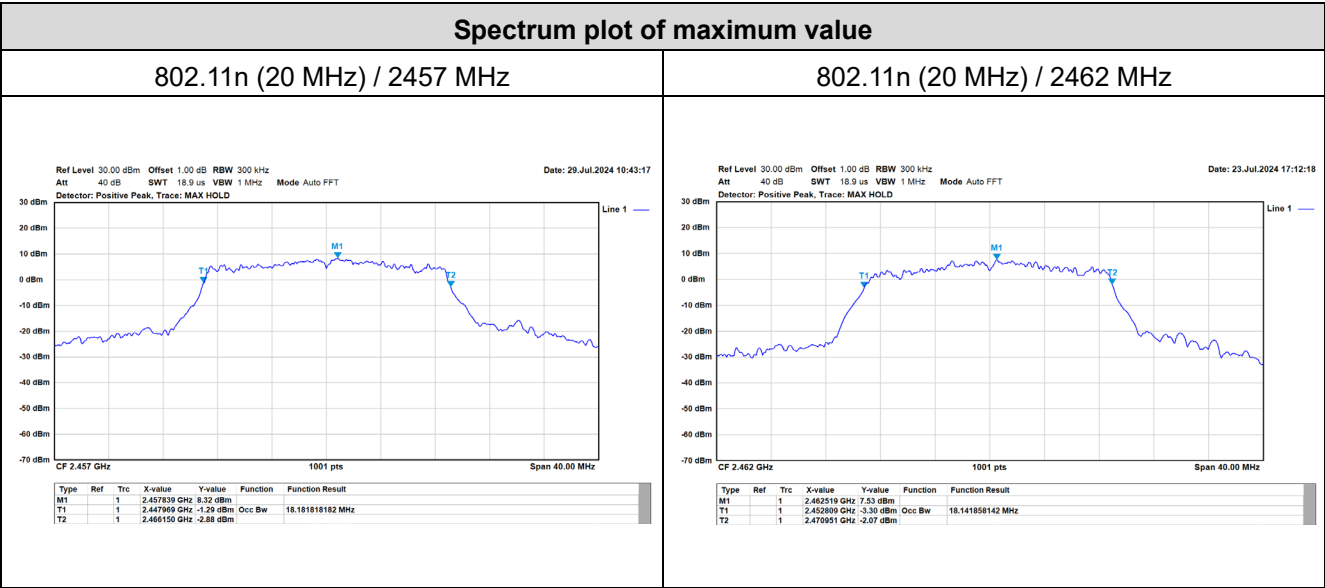


802.11n (20 MHz) / 2437 MHz



802.11n (20 MHz) / 2452 MHz



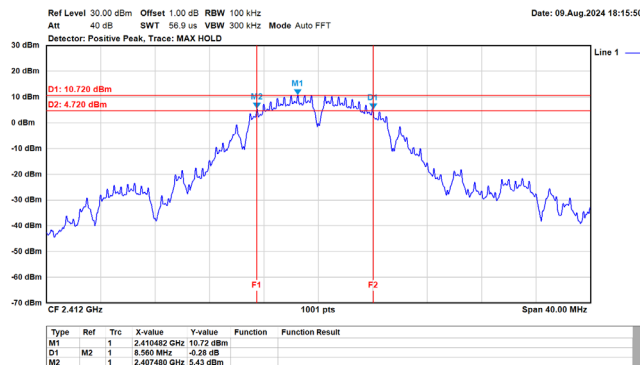


Appendix B.2 Test Result of DTS Bandwidth

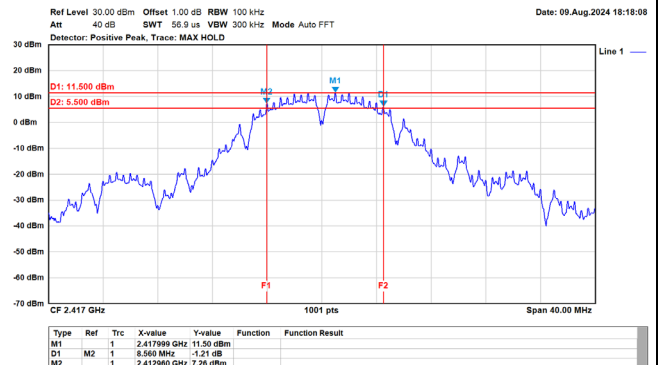
Modulation	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	2412	8.56	0.50	Pass
	2417	8.56	0.50	Pass
	2437	9.04	0.50	Pass
	2452	9.04	0.50	Pass
	2457	8.52	0.50	Pass
	2462	8.56	0.50	Pass
802.11g	2412	16.04	0.50	Pass
	2417	15.76	0.50	Pass
	2422	13.88	0.50	Pass
	2437	15.72	0.50	Pass
	2452	16.04	0.50	Pass
	2457	16.32	0.50	Pass
	2462	15.76	0.50	Pass
802.11n (20 MHz)	2412	16.32	0.50	Pass
	2417	17.16	0.50	Pass
	2422	16.32	0.50	Pass
	2437	15.16	0.50	Pass
	2452	15.16	0.50	Pass
	2457	17.28	0.50	Pass
	2462	16.36	0.50	Pass

Spectrum plot of worst value

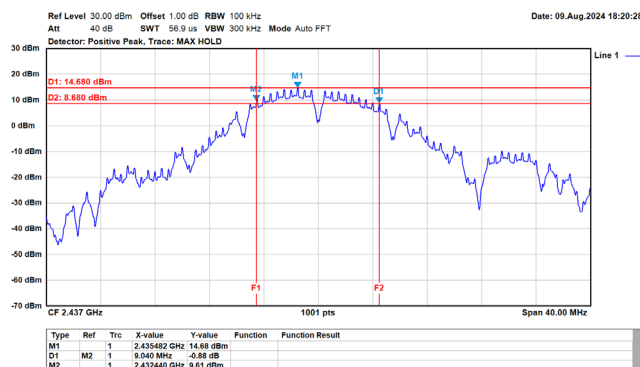
802.11b / 2412 MHz



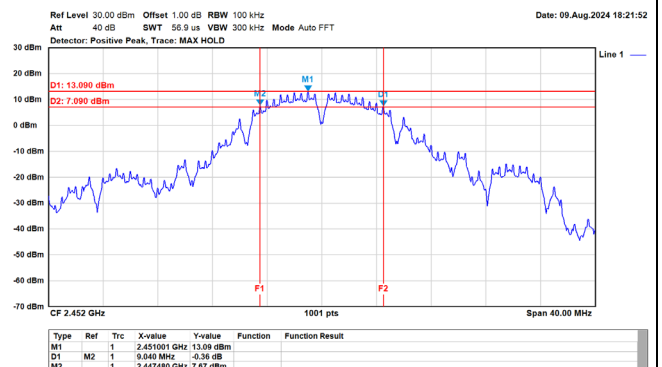
802.11b / 2417 MHz



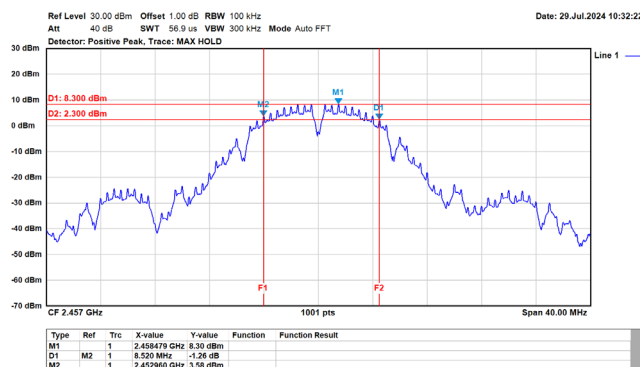
802.11b / 2437 MHz



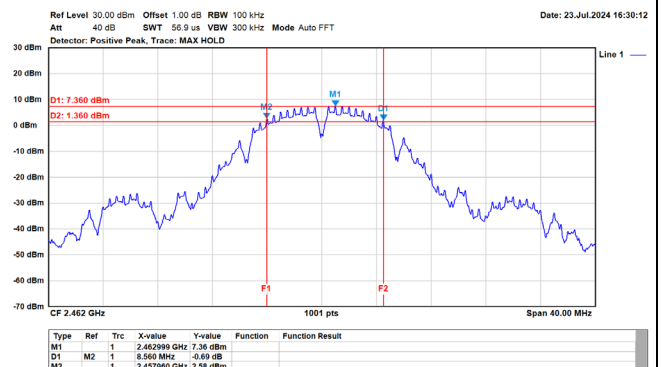
802.11b / 2452 MHz



802.11b / 2457 MHz

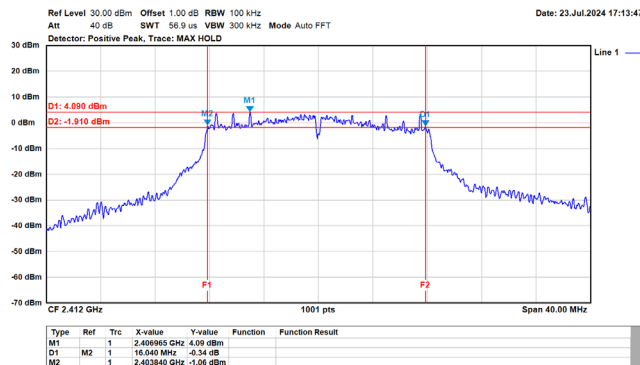


802.11b / 2462 MHz

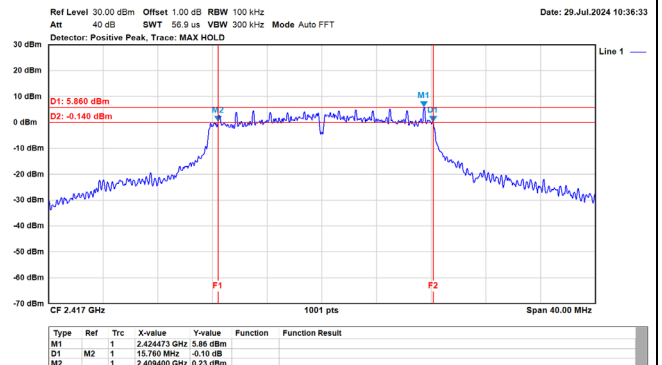


Spectrum plot of worst value

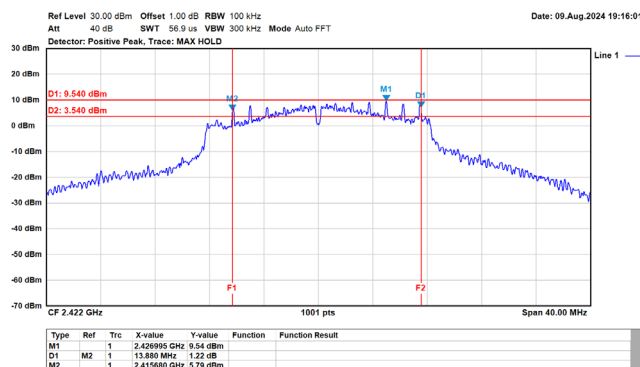
802.11g / 2412 MHz



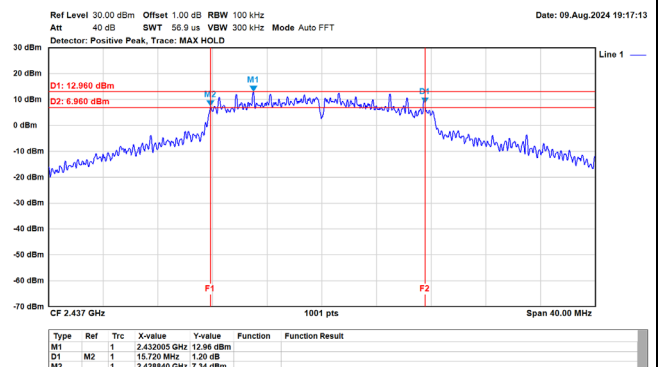
802.11g / 2417 MHz



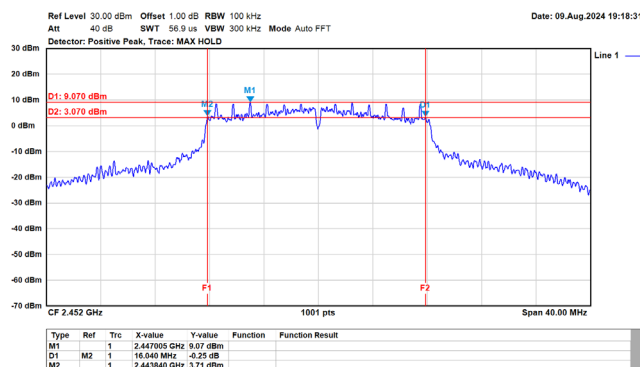
802.11g / 2422 MHz



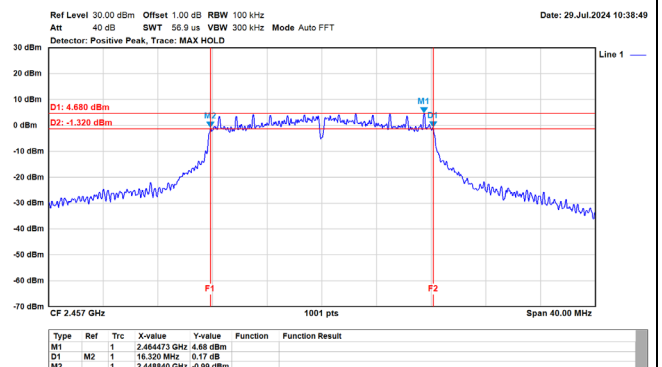
802.11g / 2437 MHz



802.11g / 2452 MHz

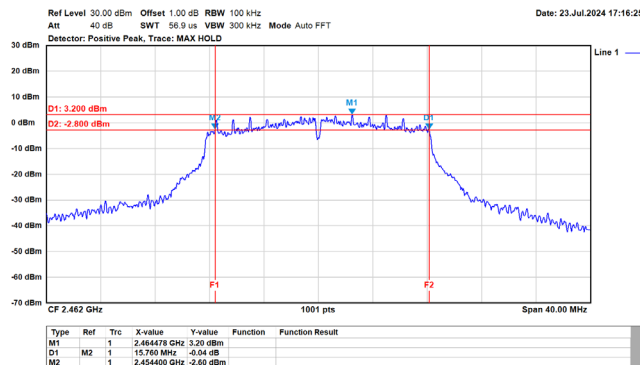


802.11g / 2457 MHz

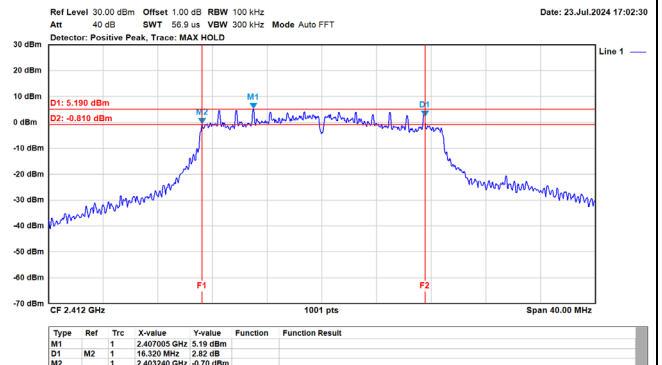


Spectrum plot of worst value

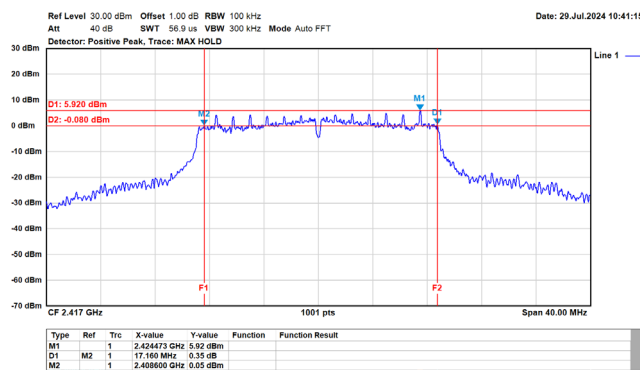
802.11g / 2462 MHz



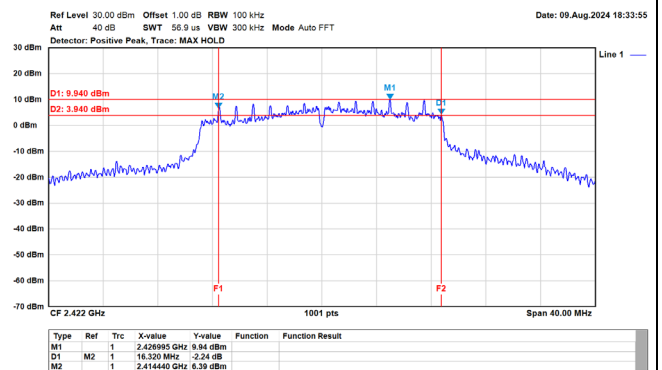
802.11n (20 MHz) / 2412 MHz



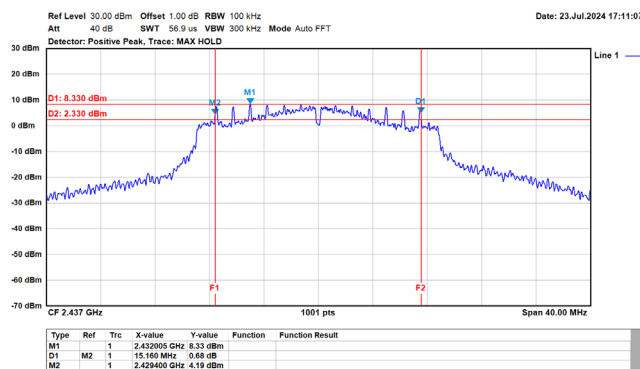
802.11n (20 MHz) / 2417 MHz



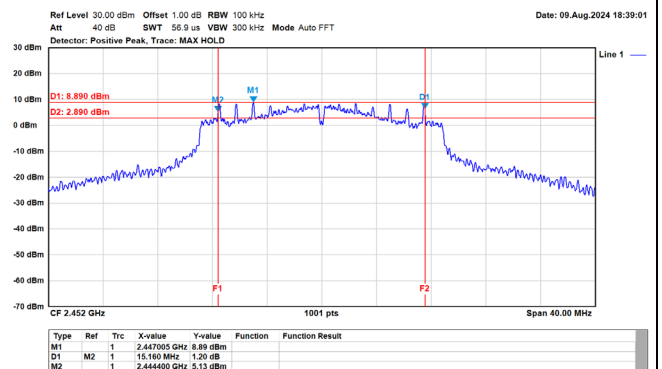
802.11n (20 MHz) / 2422 MHz

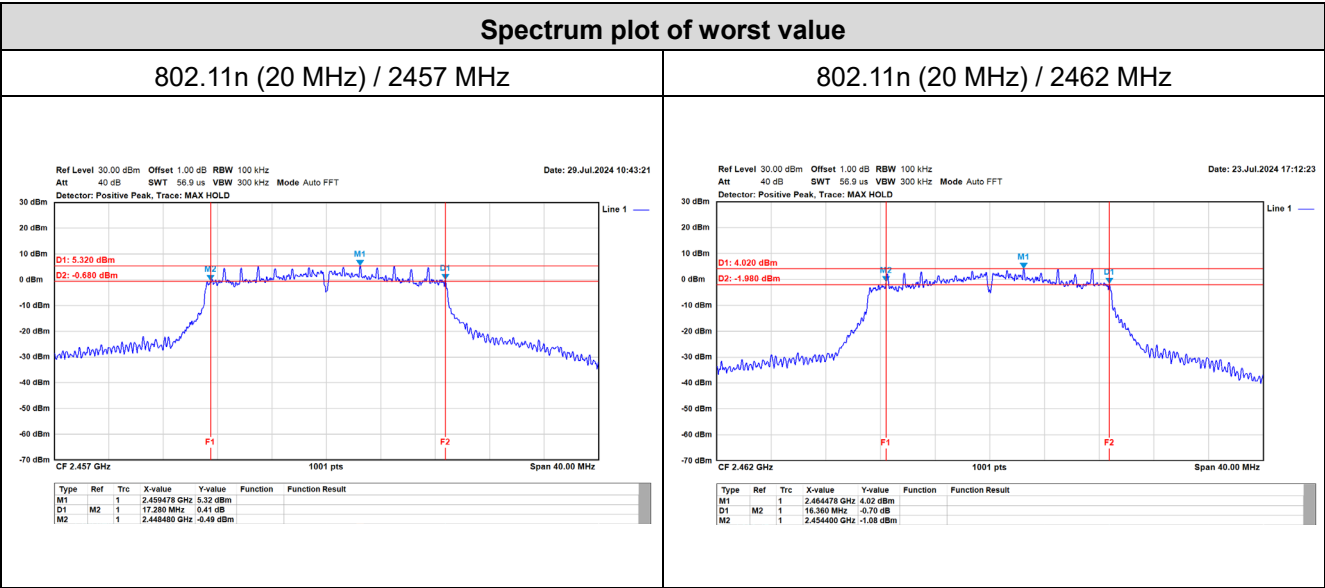


802.11n (20 MHz) / 2437 MHz



802.11n (20 MHz) / 2452 MHz





Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	18.140	30.00	Pass
	2417	20.230	30.00	Pass
	2437	23.110	30.00	Pass
	2452	21.570	30.00	Pass
	2457	18.230	30.00	Pass
	2462	16.700	30.00	Pass
802.11g	2412	15.720	30.00	Pass
	2417	17.650	30.00	Pass
	2422	20.190	30.00	Pass
	2437	23.030	30.00	Pass
	2452	20.110	30.00	Pass
	2457	17.930	30.00	Pass
	2462	15.230	30.00	Pass
802.11n (20 MHz)	2412	16.050	30.00	Pass
	2417	17.860	30.00	Pass
	2422	19.970	30.00	Pass
	2437	22.860	30.00	Pass
	2452	19.920	30.00	Pass
	2457	18.460	30.00	Pass
	2462	16.030	30.00	Pass

Appendix D. Test Result of Maximum Power Spectral Density

Modulation	Frequency (MHz)	Power Spectral Density (dBm/RBW)	Limit (dBm/3kHz)	Result
802.11b	2412	-6.78	8.00	Pass
	2417	-6.22	8.00	Pass
	2437	-3.12	8.00	Pass
	2452	-4.68	8.00	Pass
	2457	-9.02	8.00	Pass
	2462	-9.77	8.00	Pass
802.11g	2412	-9.76	8.00	Pass
	2417	-9.20	8.00	Pass
	2422	-4.80	8.00	Pass
	2437	-2.72	8.00	Pass
	2452	-4.92	8.00	Pass
	2457	-6.88	8.00	Pass
	2462	-10.73	8.00	Pass
802.11n (20 MHz)	2412	-11.26	8.00	Pass
	2417	-9.54	8.00	Pass
	2422	-7.37	8.00	Pass
	2437	-6.68	8.00	Pass
	2452	-6.66	8.00	Pass
	2457	-8.96	8.00	Pass
	2462	-11.44	8.00	Pass