FCC Radio Test Report

FCC ID: 2APRGWR3000SE

Report No.	:	BTL-FCCP-1-2406G034
Equipment	:	AX3000 Gigabit Mesh Wi-Fi 6 Router
Model Name	:	WR3000S
Series Model	:	WR3000E
Brand Name	:	Cudy
Applicant	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China
Radio Function	:	WLAN 2.4 GHz
FCC Rule Part(s)	:	FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2024/8/26, 2024/9/12
Date of Test	:	2024/8/28 ~ 2024/9/12, 2024/9/18 ~ 2025/1/17
Issued Date	:	2025/2/26

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2406G034	R00	Original Report.	2025/2/26	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	------
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	------
15.247(a)	Bandwidth	APPENDIX D	Pass	------
15.247(b)	Maximum Output Power	APPENDIX E	Pass	------
15.247(e)	Power Spectral Density	APPENDIX F	Pass	------
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	Pass	------
15.203	Antenna Requirement	------	Pass	**NOTE (3)**

NOTE:
(1) ”N/A” denotes test is not applicable in this Test Report.
(2) The report format version is TP.1.1.1.
(3) The device what use replaceable antennas with non-standard interfaces are considered sufficient to com ply with the provisions of 15.203.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.
The test location(s) used to collect the test data in this report are:
(FCC DN: TW0659)
No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
☒ CB20 ☒ C01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k = 2**, providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test:

Test Site	Measurement Frequency Range	U (dB)
CB20	0.03 GHz ~ 0.2 GHz	4.01
	0.2 GHz ~ 1 GHz	4.64
	1 GHz ~ 6 GHz	5.91
	6 GHz ~ 18 GHz	6.24
	18 GHz ~ 26 GHz	3.93

C. Conducted test:

Test Item	U (dB)
Occupied Bandwidth	0.86 %
Output power	0.40 dB
Power Spectral Density	0.86 dB
Conducted Spurious emissions	1.83 dB
Conducted Band edges	1.83 dB

NOTE:
Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

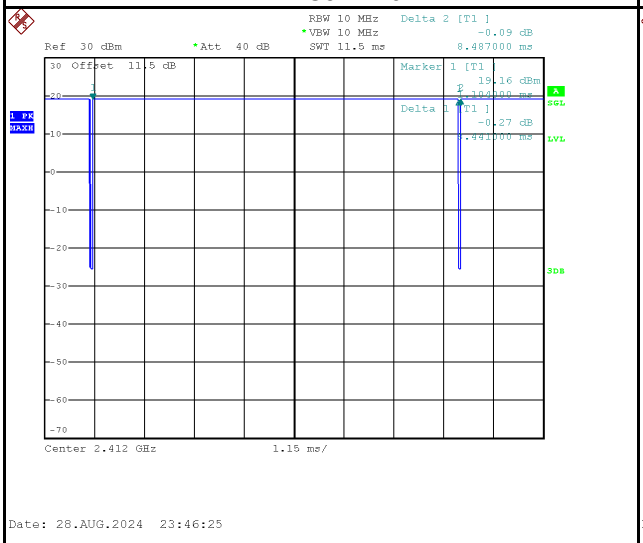
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	25°C, 50%	AC 120 V	Cheng Tsai
Radiated emissions below 1 GHz	25°C, 65%	AC 120 V	Benny Cao Ken Lu
Radiated emissions above 1 GHz	25°C, 65%	AC 120 V	Benny Cao Ken Lu
Bandwidth	25°C, 50%	AC 120 V	Cheng Tsai
Maximum Output Power	25°C, 50%	AC 120 V	Cheng Tsai
Power Spectral Density	25°C, 50%	AC 120 V	Cheng Tsai
Antenna conducted Spurious Emission	25°C, 50%	AC 120 V	Cheng Tsai

1.4 DUTY CYCLE

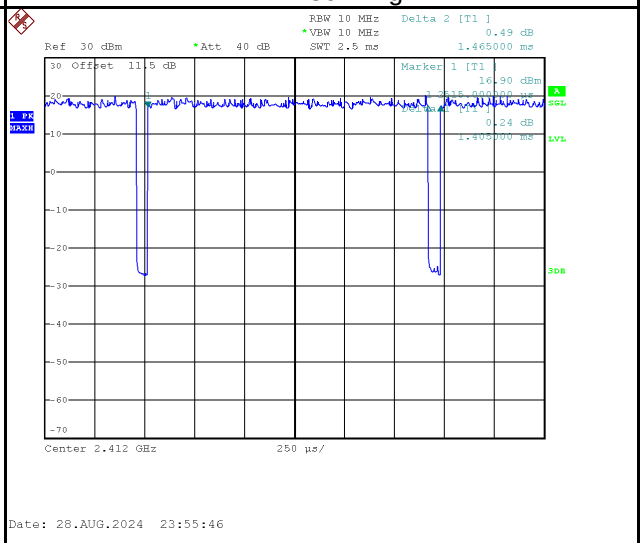
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)	1/On Time (B)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)	1/B Minimum VBW (kHz)
IEEE 802.11b	8.441	1	8.441	8.487	99.46%	0.00	0.010
IEEE 802.11g	1.405	1	1.405	1.465	95.90%	0.18	0.712
IEEE 802.11n(HT20)	1.315	1	1.315	1.375	95.64%	0.19	0.760
IEEE 802.11n(HT40)	0.650	1	0.650	0.710	91.55%	0.38	1.538
IEEE 802.11ax(HE20)	0.560	1	0.560	0.620	90.32%	0.44	1.786
IEEE 802.11ax(HE40)	1.400	1	1.400	1.460	95.89%	0.18	0.714

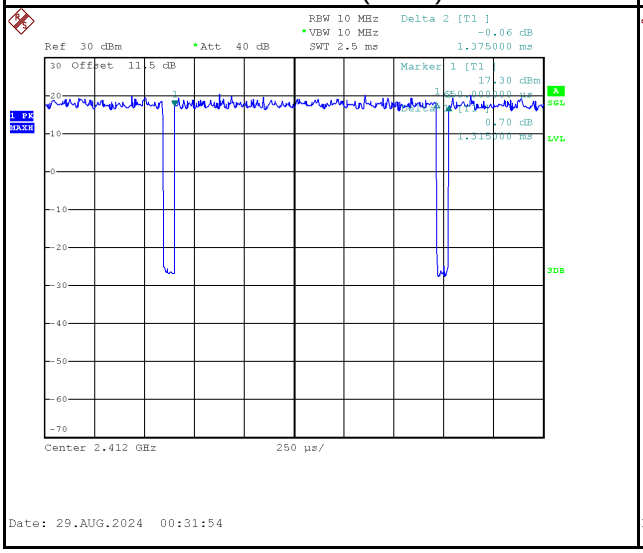
IEEE 802.11b



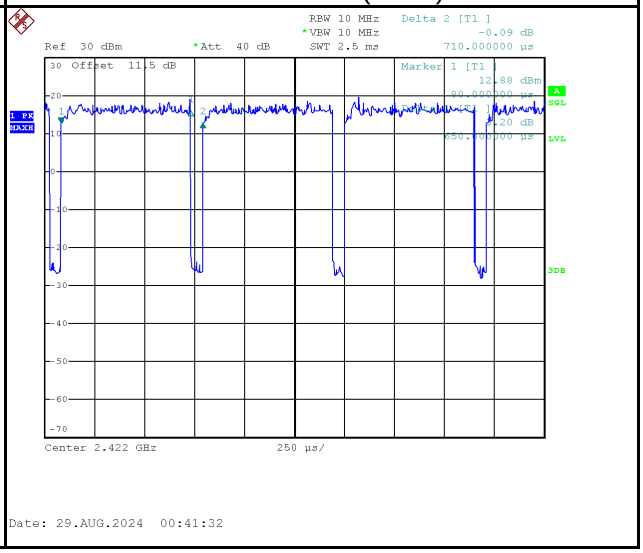
IEEE 802.11g

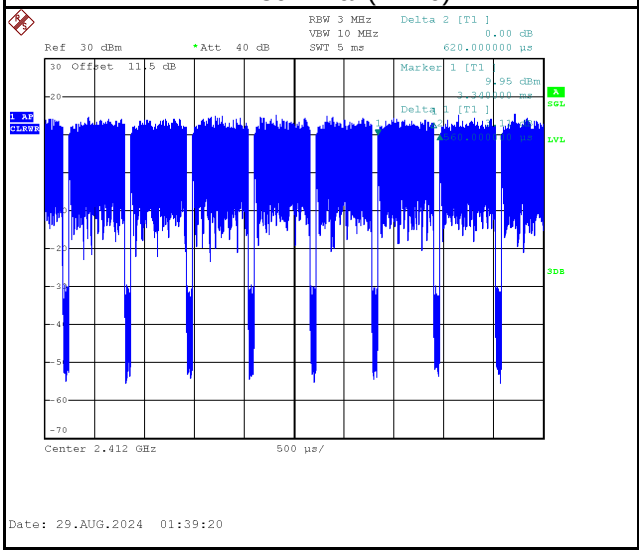
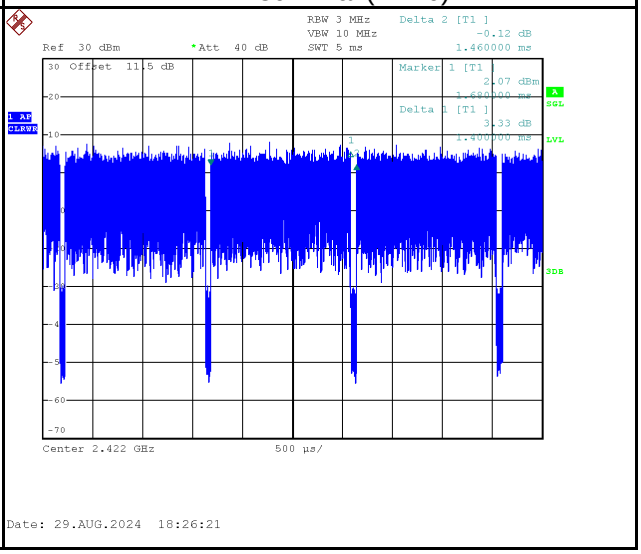


IEEE 802.11n(HT20)



IEEE 802.11n(HT40)



IEEE 802.11ax(HE20)	IEEE 802.11ax(HE40)
	

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	AX3000 Gigabit Mesh Wi-Fi 6 Router
Brand Name	Cudy
Model Name	WR3000S
Series Model	WR3000E
Model Difference	The shell and the antenna are not the same, the internal board is placed differently, and the Layout of the board line is exactly the same.
Hardware Version	V1
Software Version	2.0.2
Power Source	DC voltage supplied from AC adapter. Model: DSA-12PF11-12 FUS 120100
Power Rating	I/P: 100-240V~ 50/60Hz 0.5A O/P: +12.0V⎓1.0A
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Technology	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Transfer Rate	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power	IEEE 802.11b: 18.87 dBm (0.0946 W)

NOTE:
(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

CH01 - CH13 for IEEE 802.11b,IEEE 802.11g,IEEE 802.11n(HT20),IEEE 802.11ax(HE20) CH03 - CH11 for IEEE 802.11n(HT40),IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

(3) Table for Filed Antenna:

For WR3000S:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	South star	660100141	PCB	N/A	5.17
2	South star	660100144	PCB	N/A	5.49

For WR3000E:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	South star	660100177	PCB	N/A	5.28
2	South star	660100174	PCB	N/A	4.28

NOTE:

1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT\ MAX}$+Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leqslant 4$), so the Directional gain=5.49.
For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=5.49+10l0g(2/1)dBi=8.50
Then, the power spectral density limit is 8-(8.50-6)=5.5

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Operating Mode and Antenna Configuration

Operating Mode / TX Mode	2TX
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

2.2 TEST MODES

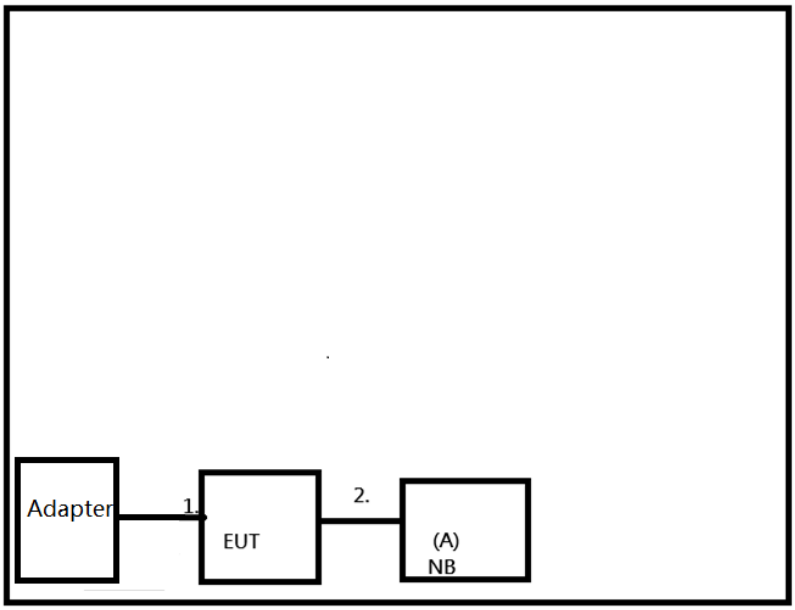
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11b	06	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11b	01/11	Bandedge
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40)	03/09	
	TX Mode_IEEE 802.11ax (HE40)		
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11b	01/06/11	Harmonic
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40)	03/06/09	
	TX Mode_IEEE 802.11ax (HE40)		
Transmitter Radiated Emissions (above 18GHz)	TX Mode_IEEE 802.11b	06	-
Bandwidth & Maximum Output Power & Power Spectral Density & Antenna conducted Spurious Emission	TX Mode_IEEE 802.11b	01/06/11	-
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40)	03/06/09	
	TX Mode_IEEE 802.11ax (HE40)		

NOTE:
(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
(2) For radiated emission below 1 GHz test, the TX Mode_IEEE 802.11b Channel 06 is found to be the worst case and recorded.
(3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
(4) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
(5) Due to model difference, the model WR3000S are completely tested while model WR3000E only recorded the radiated.
(6) The Output Power of the Beamforming mode will be lower than that of the non-Beamforming mode. Only non-Beamforming mode will be evaluated and recorded in the report.

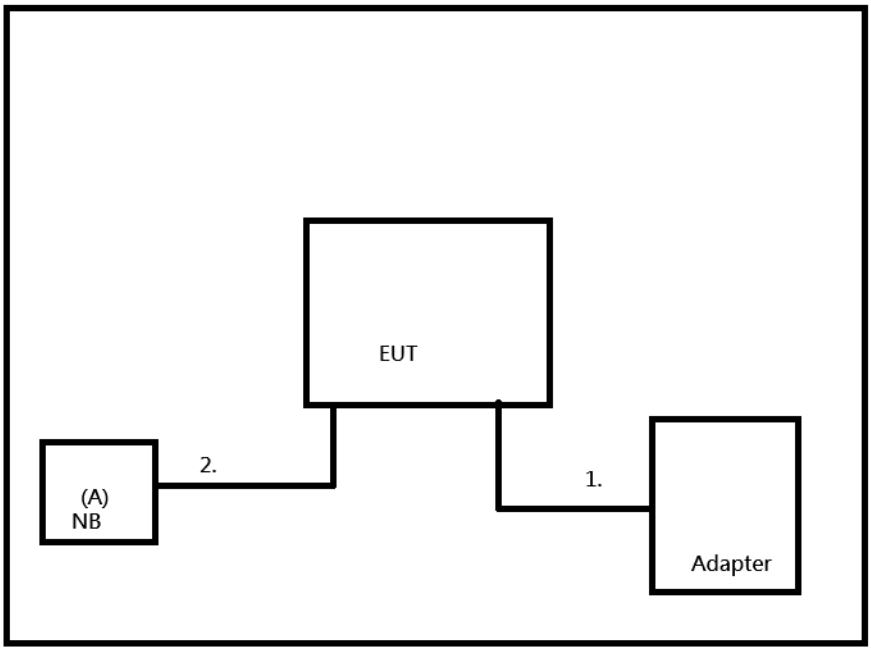
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Lenovo	ThinkBook 14 G4 IAP	MP28KHAH	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	DC Cable	Yes	No	1.3m	Supplied by test requester.
2	RJ45 Cable	Yes	No	1m	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:
(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value – Limit Value
Calculation example:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

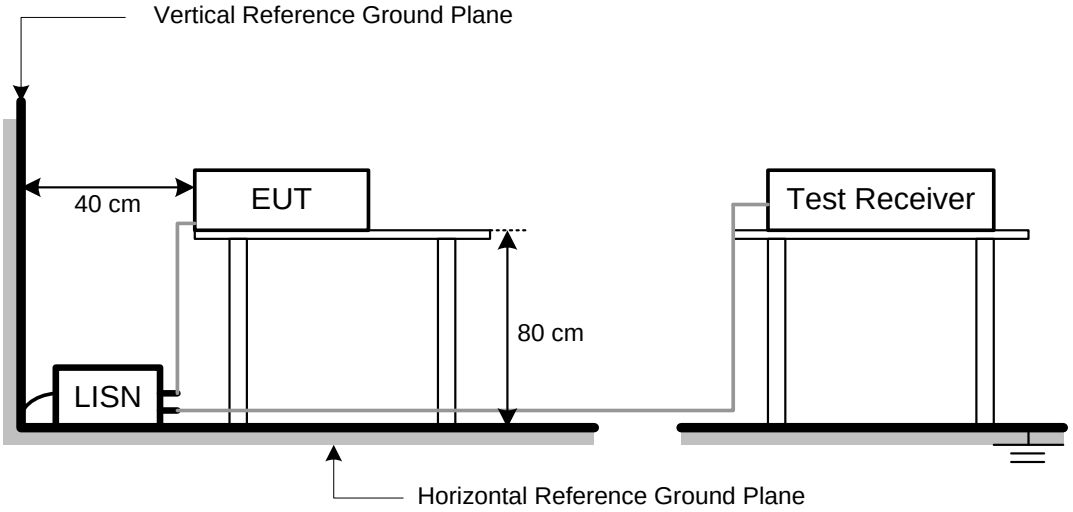
a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
e. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

NOTE:
(1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
(2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

NOTE:
(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).
(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value
Calculation example:

Reading Level (dBµV)		Correct Factor (dB/m)		Measurement Value (dBµV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBµV/m)		Limit Value (dBµV/m)		Margin Level (dB)
21.22	-	54	=	-32.78

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Mode	VBW(Hz)
IEEE 802.11b	1.8k
IEEE 802.11g	750
IEEE 802.11n (HT20)	300
IEEE 802.11ax (HE20)	300

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2 TEST PROCEDURE

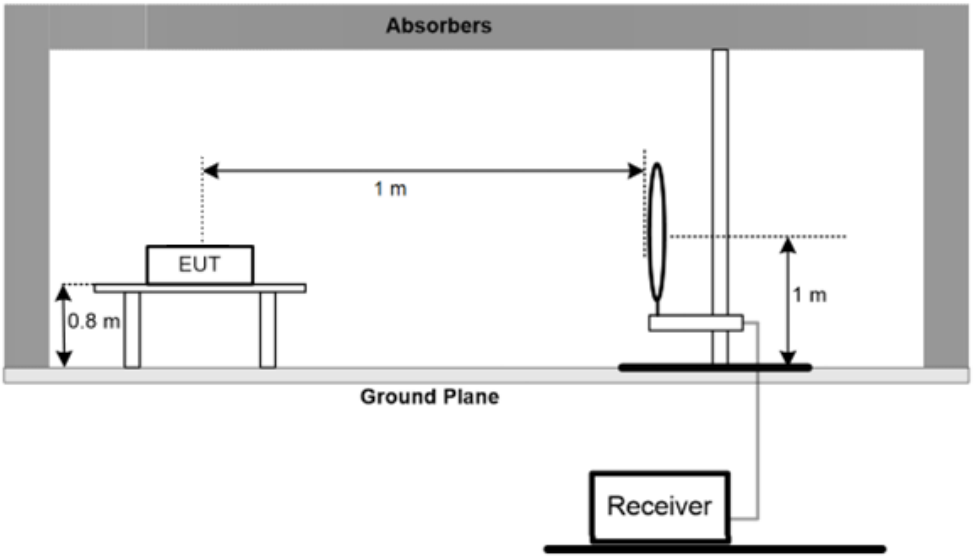
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

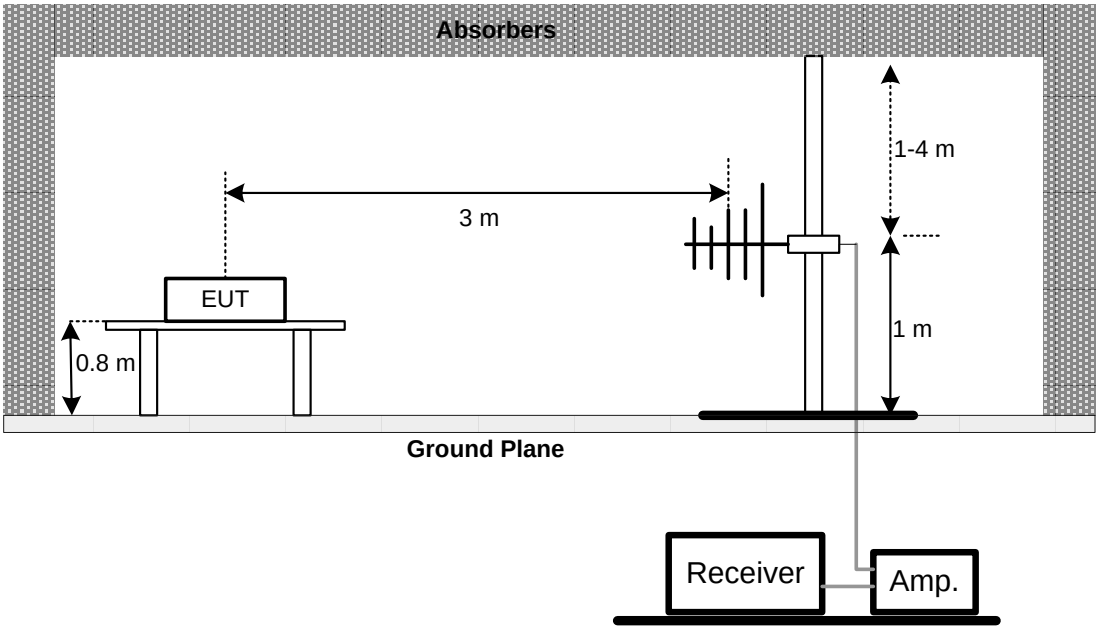
No deviation.

4.4 TEST SETUP

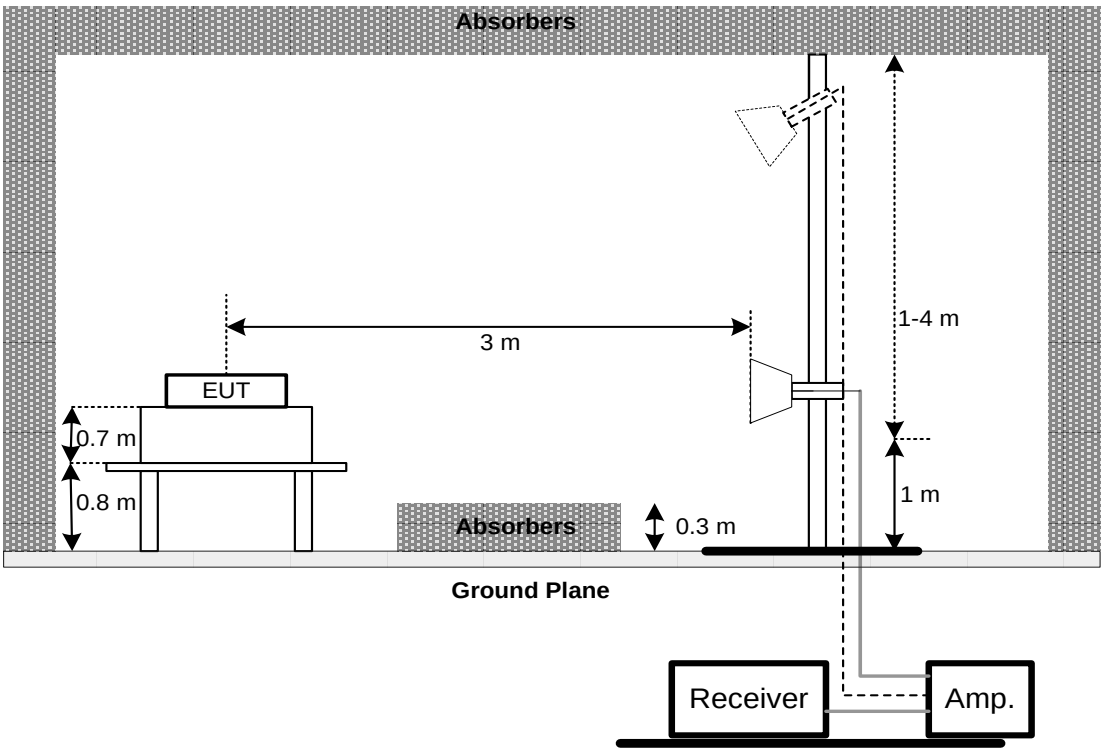
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9kHz TO 30 MHz

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

Section	Test Item	Limit
15.247(a)	6 dB Bandwidth	500 kHz

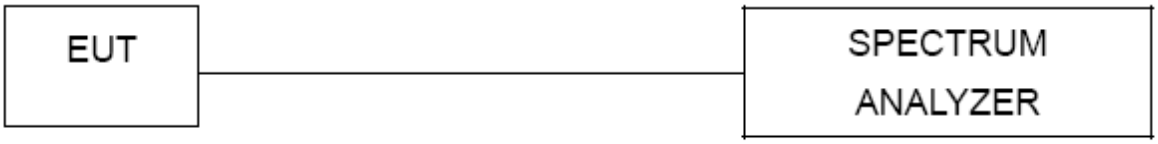
5.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

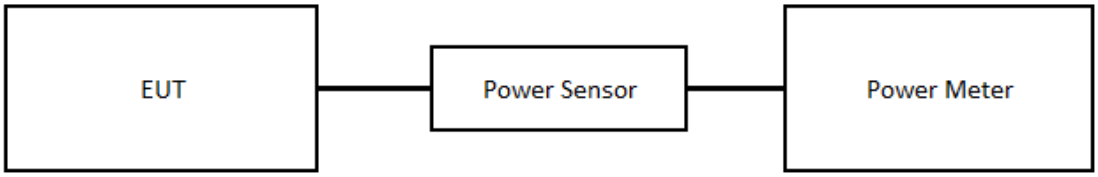
6.2 TEST PROCEDURE

a. The EUT was directly connected to the Peak Power Analyzer and antenna output port as show in the block diagram below.
b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
c. Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

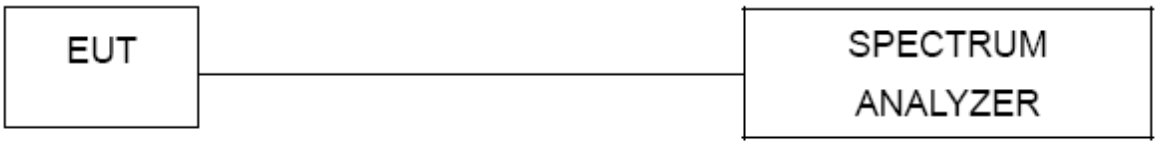
7.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

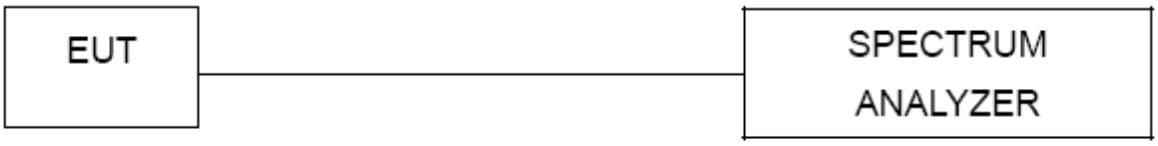
8.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
c. Offset = antenna gain + cable loss.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX G.

9 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Two-Line V-Network	R&S	ENV216	101051	2024/6/26	2025/6/25
2	Test Cable	EMCI	EMCRG58-BM-BM-9000	210501	2023/12/11	2024/12/10
3	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC184045SE	980512	2023/12/11 2024/12/10	2024/12/10 2025/12/9
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	340	2024/6/27	2025/6/26
3	Test Cable	EMCI	EMC102-KM-KM-1000	220328	2023/12/11 2024/12/10	2024/12/10 2025/12/9
4	Test Cable	EMCI	EMC101G-KM-KM-3000	220330	2023/12/11 2024/12/10	2024/12/10 2025/12/9
5	Broad-Band Horn Antenna	RFSPIN	DRH18-E	210109A18E	2024/1/10 2025/1/9	2025/1/9 2026/1/8
6	Pre-Amplifier	EMCI	EMC051845SE	980779	2023/12/11 2024/12/10	2024/12/10 2025/12/9
7	Test Cable	EMCI	EMC105-SM-SM-1000	210119	2023/12/11 2024/12/10	2024/12/10 2025/12/9
8	Test Cable	EMCI	EMC105-SM-SM-3000	210118	2023/12/11 2024/12/10	2024/12/10 2025/12/9
9	Test Cable	EMCI	EMC105-SM-SM-7000	210117	2023/12/11 2024/12/10	2024/12/10 2025/12/9
10	EXA Spectrum Analyzer	keysight	N9010A	MY56480554/016	2024/9/13	2025/9/12
11	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01207	2023/12/5 2024/12/4	2024/12/4 2025/12/3
12	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
13	Pre-Amplifier	EMCI	EMC001330-20201222	980807	2023/12/11 2024/12/10	2024/12/10 2025/12/9
14	Test Cable	EMCI	EMC-8D-NM-NM-5000	150106	2023/12/11 2024/12/10	2024/12/10 2025/12/9
15	Test Cable	EMCI	EMC-CFD-400-NM-NM-8000	200348	2023/12/11 2024/12/10	2024/12/10 2025/12/9
16	Test Cable	EMCI	EMC-CFD-400-NM-NM-3300	200343	2023/12/11 2024/12/10	2024/12/10 2025/12/9
17	Loop Ant.	Electro-Metrics	EMCI-LPA600	274	2024/7/5	2025/7/4
18	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
19	Pre-Amplifier	EMCI	EMC001340	980555	2023/12/1 2024/11/30	2024/11/30 2025/11/29
20	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	BTL	1247788684	N/A	N/A	N/A

Maximum Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	POWER METER	Anritsu	MA24408A	12591	2024/10/25	2025/10/24
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	BTL	1247788684	N/A	N/A	N/A

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	BTL	1247788684	N/A	N/A	N/A

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

10 EUT TEST PHOTO

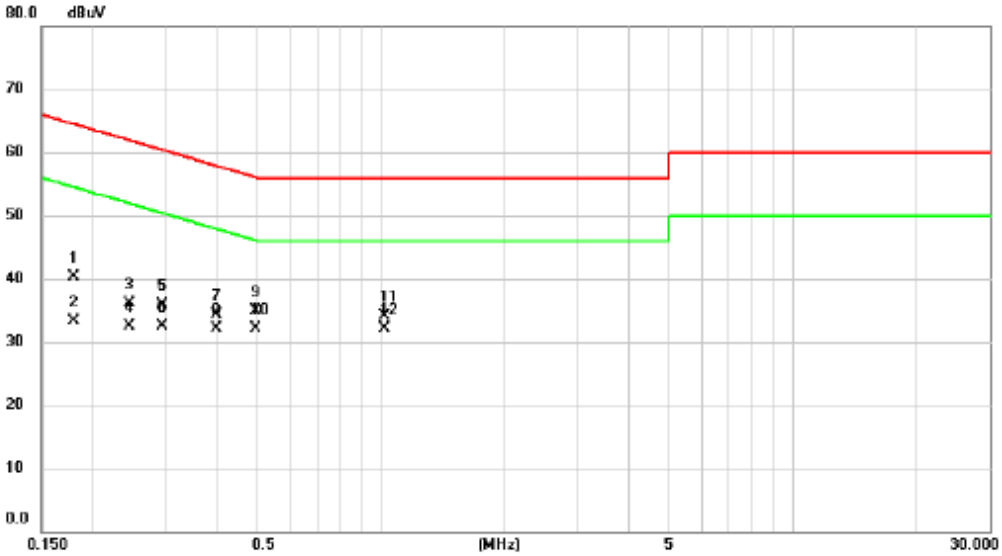
Please refer to document Appendix No.: TP-2406G034-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2406G034-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

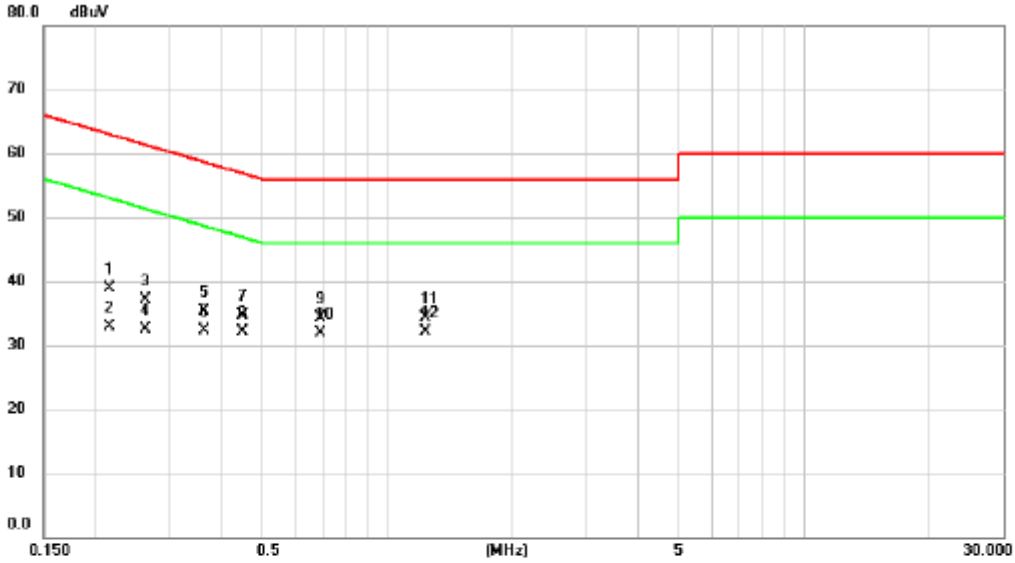
測試模式	Normal	測試日期	2024/9/10
測試頻率	-	相位	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1797	30.66	9.64	40.30	64.50	-24.20	QP	
2		0.1797	23.74	9.64	33.38	54.50	-21.12	AVG	
3		0.2455	26.45	9.64	36.09	61.91	-25.82	QP	
4		0.2455	22.94	9.64	32.58	51.91	-19.33	AVG	
5		0.2945	26.18	9.65	35.83	60.40	-24.57	QP	
6		0.2945	22.77	9.65	32.42	50.40	-17.98	AVG	
7		0.4003	24.75	9.65	34.40	57.85	-23.45	QP	
8		0.4003	22.51	9.65	32.16	47.85	-15.69	AVG	
9		0.4951	25.15	9.66	34.81	56.08	-21.27	QP	
10		0.4951	22.51	9.66	32.17	46.08	-13.91	AVG	
11		1.0175	24.42	9.70	34.12	56.00	-21.88	QP	
12	*	1.0175	22.40	9.70	32.10	46.00	-13.90	AVG	

備註：
(1) 量測值 (Measurement Value) = 讀值 (Reading Level) + 補正因素 (Correct Factor)
(2) 餘量 (Margin Level) =量測值 (Measurement Value) - 限制值 (Limit Value)

測試模式	Normal	測試日期	2024/9/10
測試頻率	-	相位	Neutral



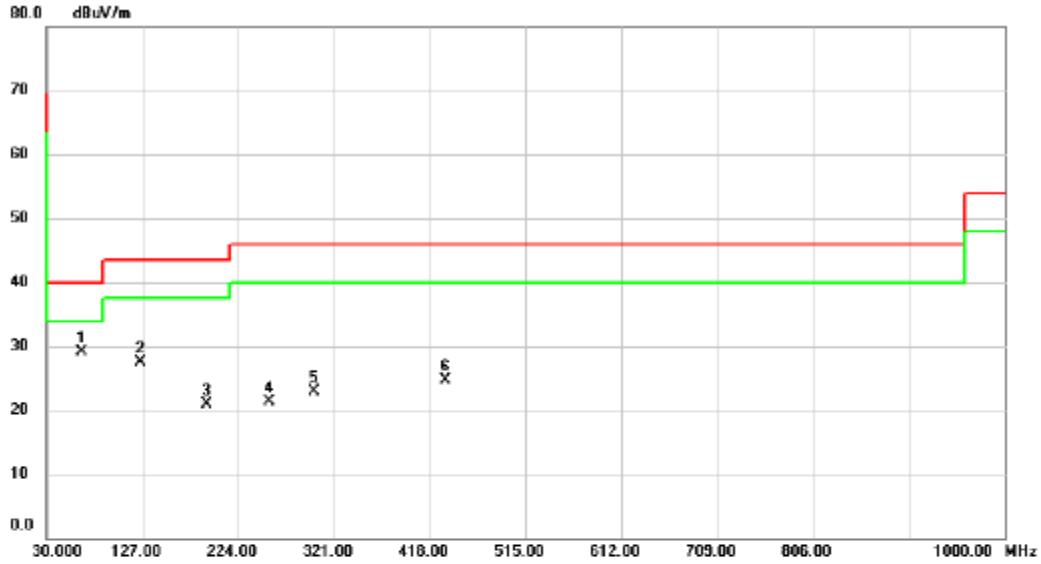
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2157	29.28	9.63	38.91	62.98	-24.07	QP	
2		0.2157	23.28	9.63	32.91	52.98	-20.07	AVG	
3		0.2626	27.47	9.63	37.10	61.35	-24.25	QP	
4		0.2626	22.94	9.63	32.57	51.35	-18.78	AVG	
5		0.3631	25.69	9.63	35.32	58.66	-23.34	QP	
6		0.3631	22.66	9.63	32.29	48.66	-16.37	AVG	
7		0.4490	24.98	9.64	34.62	56.89	-22.27	QP	
8		0.4490	22.44	9.64	32.08	46.89	-14.81	AVG	
9		0.6934	24.65	9.66	34.31	56.00	-21.69	QP	
10		0.6934	22.24	9.66	31.90	46.00	-14.10	AVG	
11		1.2334	24.61	9.71	34.32	56.00	-21.68	QP	
12	*	1.2334	22.34	9.71	32.05	46.00	-13.95	AVG	

備註：
(1) 量測值 (Measurement Value) = 讀值 (Reading Level) + 補正因素 (Correct Factor)
(2) 餘量 (Margin Level) =量測值 (Measurement Value) - 限制值 (Limit Value)

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

For WR3000S:

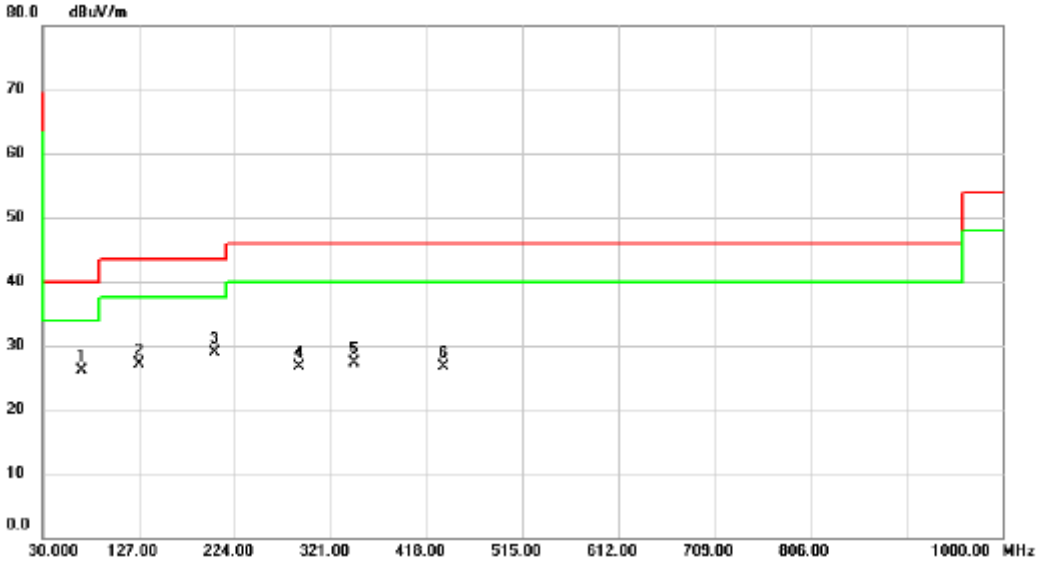
Test Mode	IEEE 802.11b	Test Date	2024/9/10
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	65.8900	42.03	-12.89	29.14	40.00	-10.86	peak	
2		125.0600	40.95	-13.45	27.50	43.50	-16.00	peak	
3		191.9900	34.77	-13.85	20.92	43.50	-22.58	peak	
4		256.0100	33.09	-11.82	21.27	46.00	-24.73	peak	
5		300.6300	33.05	-10.24	22.81	46.00	-23.19	peak	
6		433.5200	31.13	-6.49	24.64	46.00	-21.36	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/10
Test Frequency	2437MHz	Polarization	Horizontal

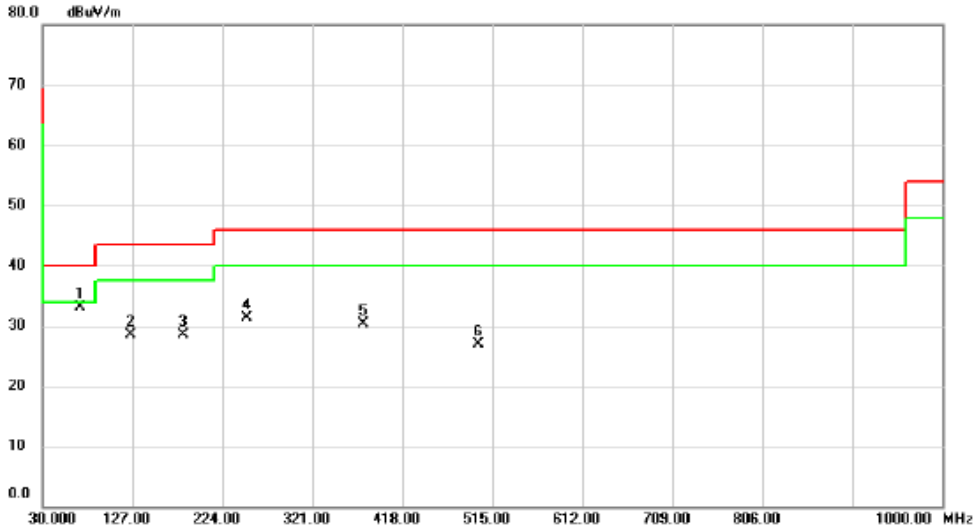


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	68.8000	39.45	-13.42	26.03	40.00	-13.97	peak	
2		127.0000	40.37	-13.27	27.10	43.50	-16.40	peak	
3		203.6300	43.06	-14.24	28.82	43.50	-14.68	peak	
4		289.9600	37.06	-10.34	26.72	46.00	-19.28	peak	
5		345.2500	36.41	-9.04	27.37	46.00	-18.63	peak	
6		435.4600	33.05	-6.44	26.61	46.00	-19.39	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

For WR3000E:

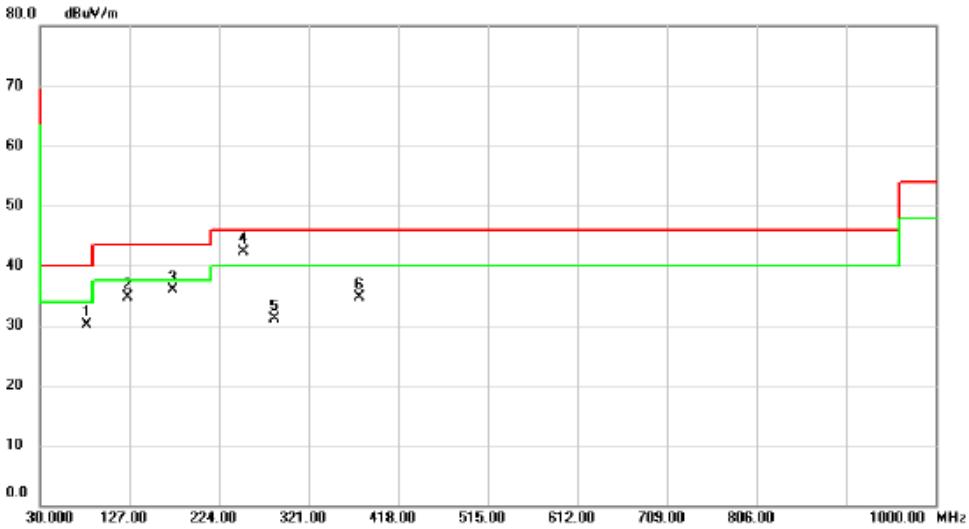
Test Mode	IEEE 802.11b	Test Date	2024/11/29
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	70.7400	47.02	-13.83	33.19	40.00	-6.81	peak			
2		125.0600	41.96	-13.45	28.51	43.50	-14.99	peak			
3		182.2900	41.30	-12.89	28.41	43.50	-15.09	peak			
4		250.1900	43.37	-11.99	31.38	46.00	-14.62	peak			
5		375.3200	38.47	-8.19	30.28	46.00	-15.72	peak			
6		500.4500	32.23	-5.23	27.00	46.00	-19.00	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/11/29
Test Frequency	2437MHz	Polarization	Horizontal



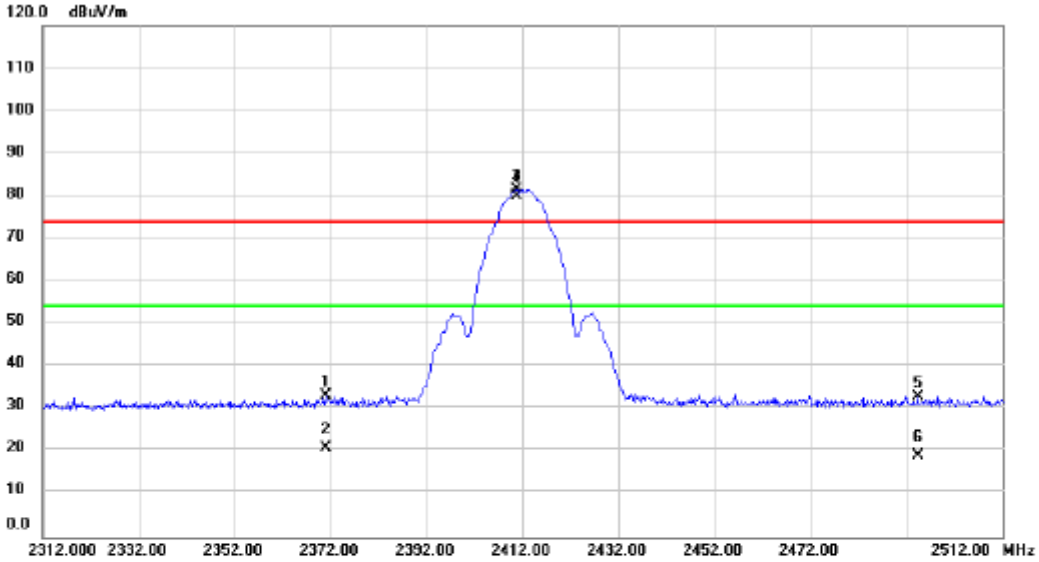
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		81.4100	46.49	-16.32	30.17	40.00	-9.83	peak			
2		125.0600	48.15	-13.45	34.70	43.50	-8.80	peak			
3		173.5600	48.05	-12.10	35.95	43.50	-7.55	peak			
4	*	250.1900	54.35	-11.99	42.36	46.00	-3.64	peak			
5		284.1400	41.62	-10.59	31.03	46.00	-14.97	peak			
6		375.3200	42.85	-8.19	34.66	46.00	-11.34	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

For WR3000S:

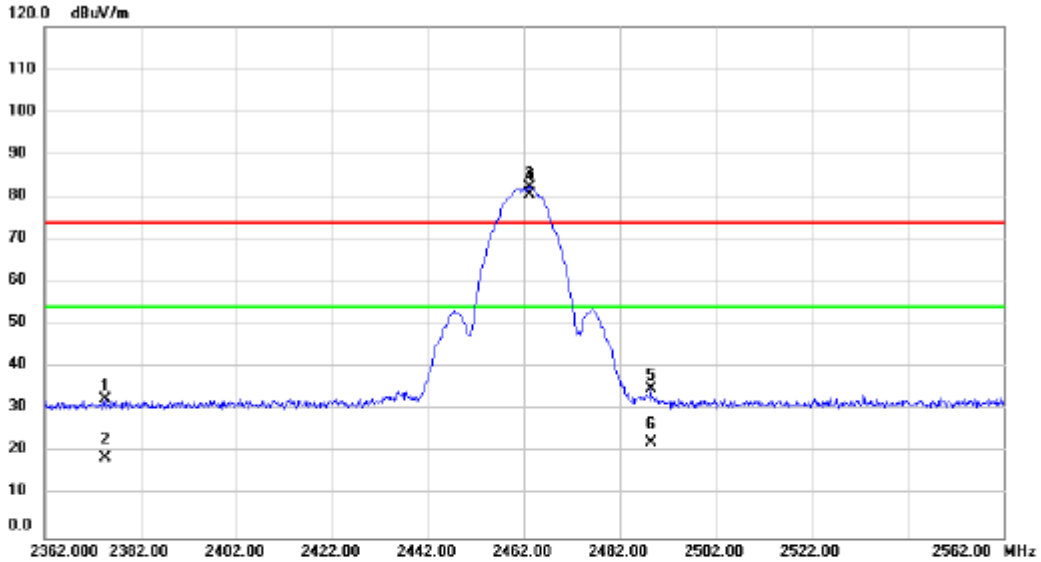
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2371.000	39.38	-6.15	33.23	74.00	-40.77	peak	
2		2371.000	26.86	-6.15	20.71	54.00	-33.29	AVG	
3	X	2410.800	87.66	-6.08	81.58	74.00	7.58	peak	No Limit
4	*	2410.800	86.15	-6.08	80.07	54.00	26.07	AVG	No Limit
5		2494.400	38.77	-5.90	32.87	74.00	-41.13	peak	
6		2494.400	24.84	-5.90	18.94	54.00	-35.06	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

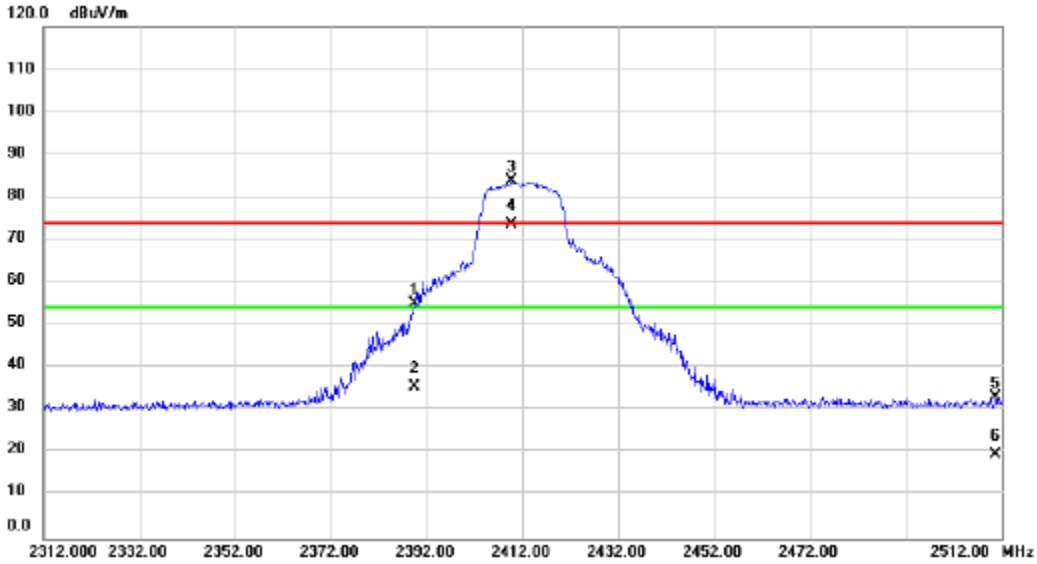
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2374.600	38.59	-6.15	32.44	74.00	-41.56	peak	
2		2374.600	24.88	-6.15	18.73	54.00	-35.27	AVG	
3	X	2463.200	88.26	-5.96	82.30	74.00	8.30	peak	No Limit
4	*	2463.200	86.58	-5.96	80.62	54.00	26.62	AVG	No Limit
5		2488.400	40.91	-5.90	35.01	74.00	-38.99	peak	
6		2488.400	28.29	-5.90	22.39	54.00	-31.61	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

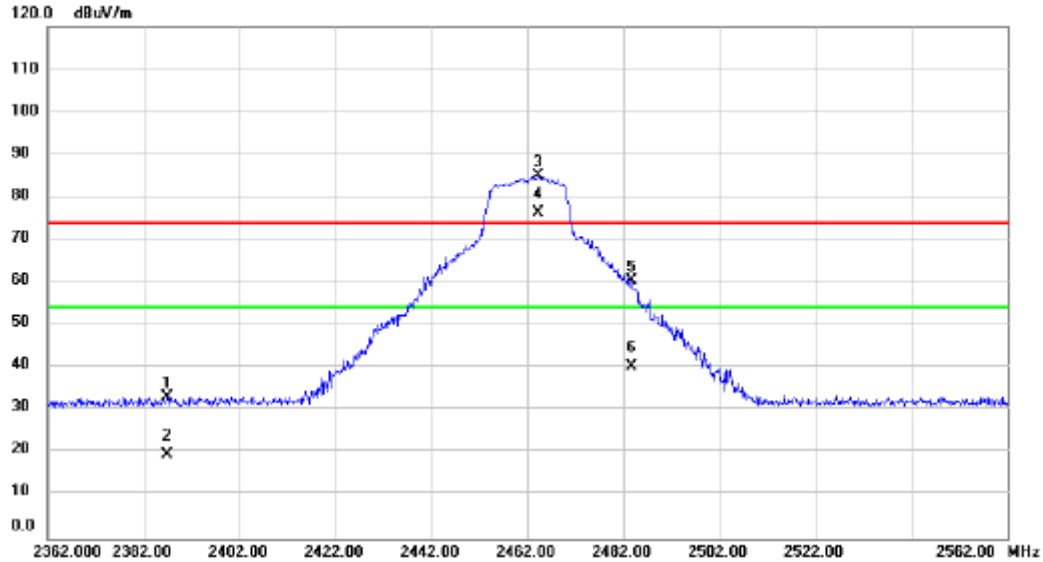
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.600	61.29	-6.12	55.17	74.00	-18.83	peak	
2		2389.600	41.56	-6.12	35.44	54.00	-18.56	AVG	
3	X	2409.800	89.88	-6.08	83.80	74.00	9.80	peak	No Limit
4	*	2409.800	79.67	-6.08	73.59	54.00	19.59	AVG	No Limit
5		2510.800	38.92	-5.84	33.08	74.00	-40.92	peak	
6		2510.800	25.40	-5.84	19.56	54.00	-34.44	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

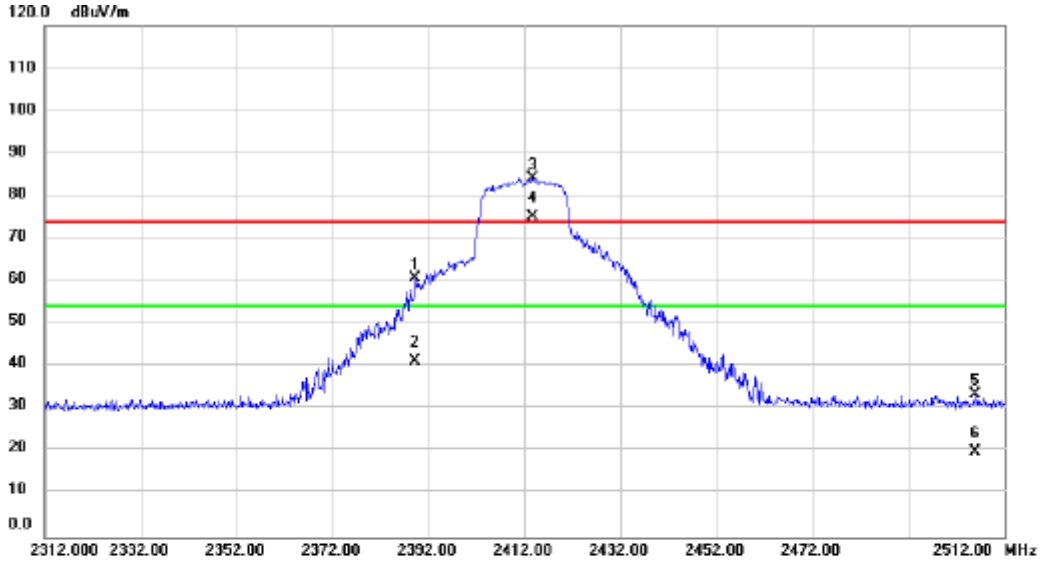
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2387.000	39.23	-6.13	33.10	74.00	-40.90	peak	
2		2387.000	25.80	-6.13	19.67	54.00	-34.33	AVG	
3	X	2464.200	90.87	-5.95	84.92	74.00	10.92	peak	No Limit
4	*	2464.200	82.34	-5.95	76.39	54.00	22.39	AVG	No Limit
5		2483.800	66.23	-5.92	60.31	74.00	-13.69	peak	
6		2483.800	46.20	-5.92	40.28	54.00	-13.72	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

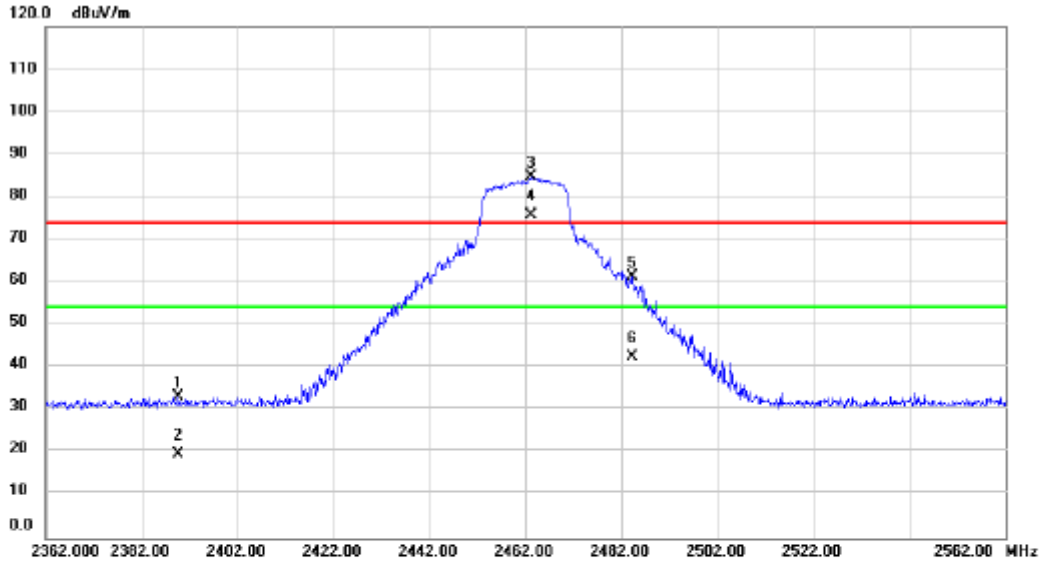
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.200	66.84	-6.12	60.72	74.00	-13.28	peak	
2		2389.200	47.43	-6.12	41.31	54.00	-12.69	AVG	
3	X	2413.800	90.15	-6.06	84.09	74.00	10.09	peak	No Limit
4	*	2413.800	81.34	-6.06	75.28	54.00	21.28	AVG	No Limit
5		2506.000	39.19	-5.86	33.33	74.00	-40.67	peak	
6		2506.000	25.69	-5.86	19.83	54.00	-34.17	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

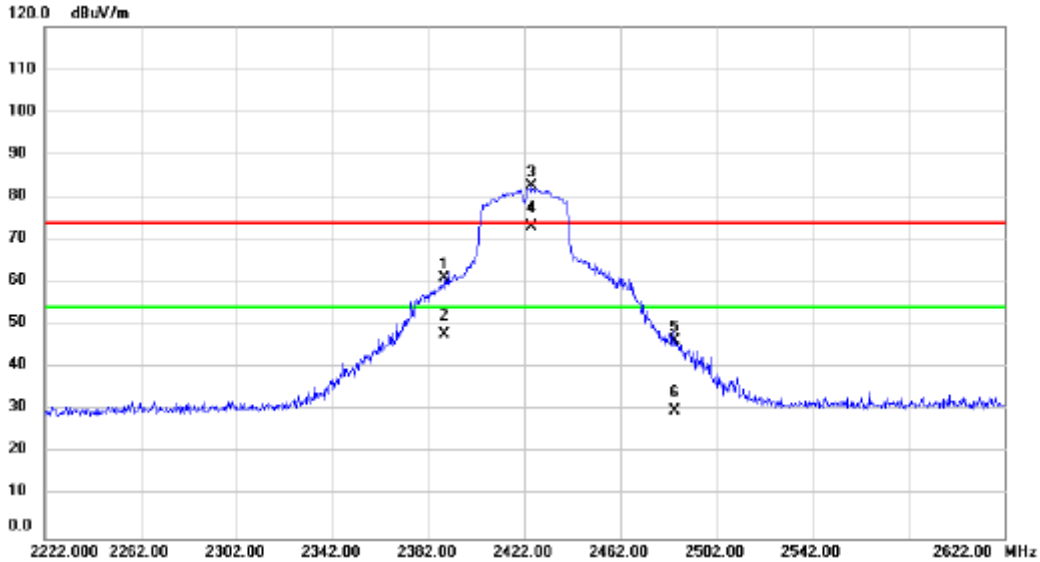
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.600	39.18	-6.12	33.06	74.00	-40.94	peak	
2		2389.600	25.85	-6.12	19.73	54.00	-34.27	AVG	
3	X	2463.200	90.61	-5.96	84.65	74.00	10.65	peak	No Limit
4	*	2463.200	81.85	-5.96	75.89	54.00	21.89	AVG	No Limit
5		2484.200	67.13	-5.92	61.21	74.00	-12.79	peak	
6		2484.200	48.43	-5.92	42.51	54.00	-11.49	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

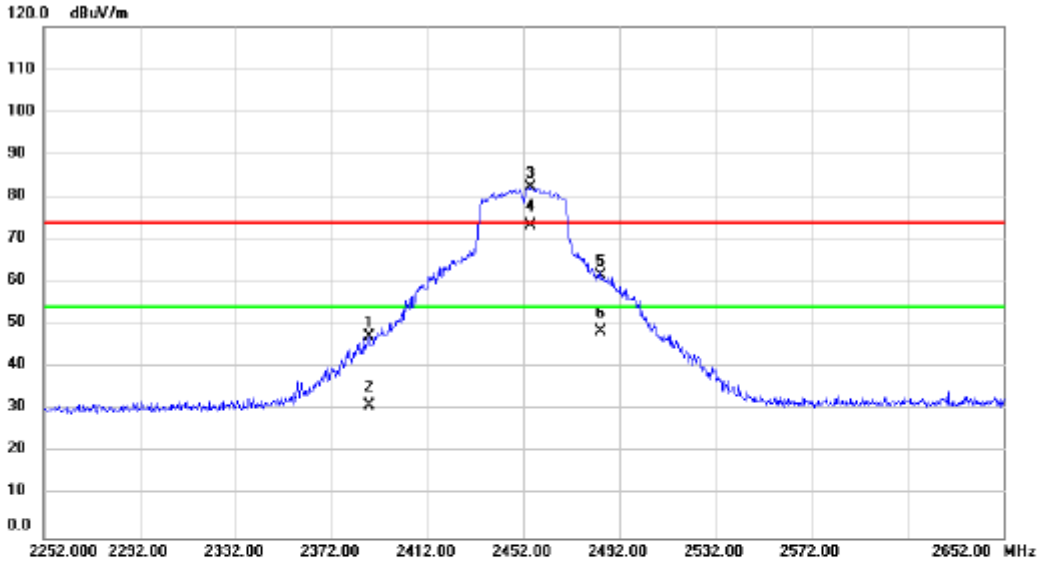
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.800	67.25	-6.12	61.13	74.00	-12.87	peak	
2		2388.800	54.05	-6.12	47.93	54.00	-6.07	AVG	
3	X	2425.200	88.70	-6.04	82.66	74.00	8.66	peak	No Limit
4	*	2425.200	79.16	-6.04	73.12	54.00	19.12	AVG	No Limit
5		2484.800	52.29	-5.91	46.38	74.00	-27.62	peak	
6		2484.800	35.75	-5.91	29.84	54.00	-24.16	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

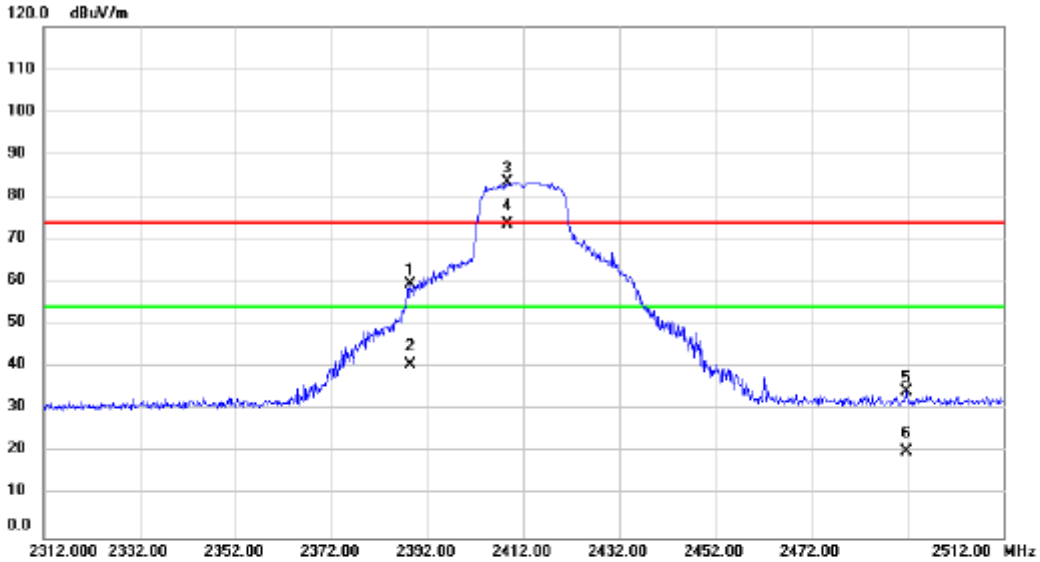
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2387.600	53.49	-6.12	47.37	74.00	-26.63	peak	
2		2387.600	37.03	-6.12	30.91	54.00	-23.09	AVG	
3	X	2454.800	88.43	-5.97	82.46	74.00	8.46	peak	No Limit
4	*	2454.800	79.36	-5.97	73.39	54.00	19.39	AVG	No Limit
5		2484.400	67.51	-5.91	61.60	74.00	-12.40	peak	
6		2484.400	54.41	-5.91	48.50	54.00	-5.50	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

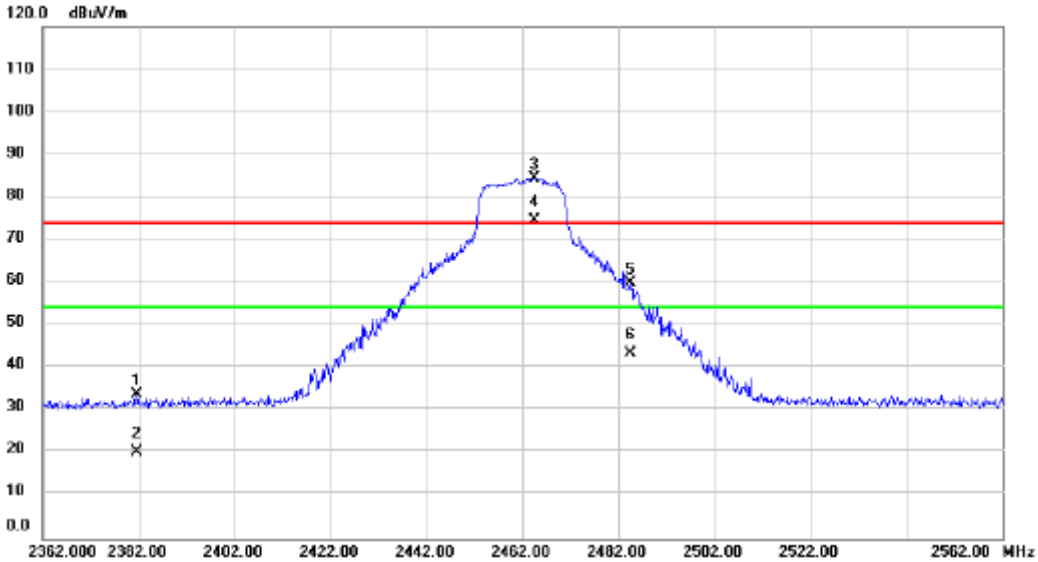
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.400	65.75	-6.12	59.63	74.00	-14.37	peak	
2		2388.400	46.90	-6.12	40.78	54.00	-13.22	AVG	
3	X	2408.600	89.77	-6.08	83.69	74.00	9.69	peak	No Limit
4	*	2408.600	79.71	-6.08	73.63	54.00	19.63	AVG	No Limit
5		2491.800	40.25	-5.90	34.35	74.00	-39.65	peak	
6		2491.800	26.22	-5.90	20.32	54.00	-33.68	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

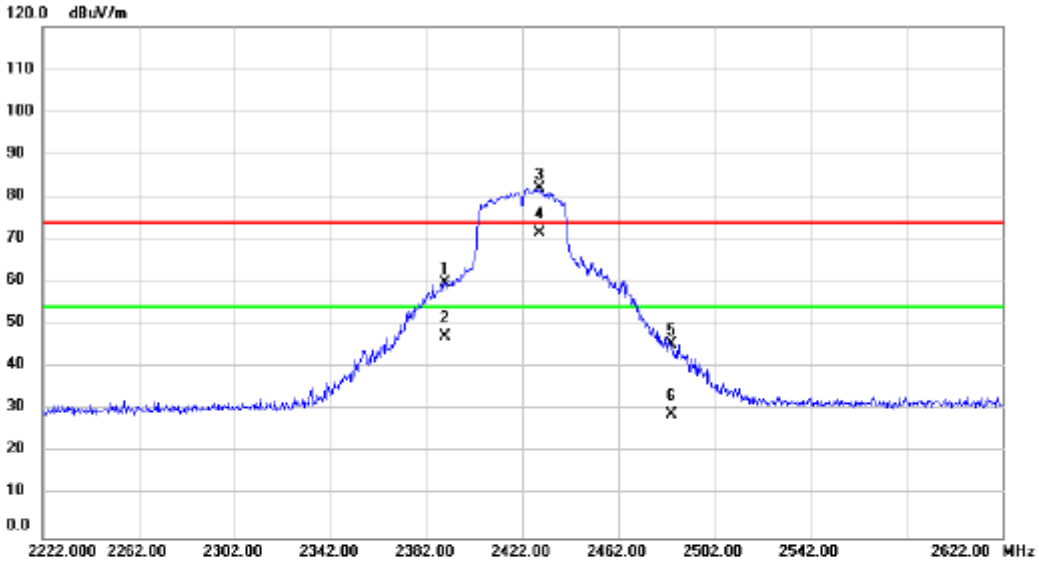
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2381.600	39.95	-6.13	33.82	74.00	-40.18	peak	
2		2381.600	26.26	-6.13	20.13	54.00	-33.87	AVG	
3	X	2464.400	90.55	-5.95	84.60	74.00	10.60	peak	No Limit
4	*	2464.400	80.56	-5.95	74.61	54.00	20.61	AVG	No Limit
5		2484.400	65.85	-5.91	59.94	74.00	-14.06	peak	
6		2484.400	49.14	-5.91	43.23	54.00	-10.77	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

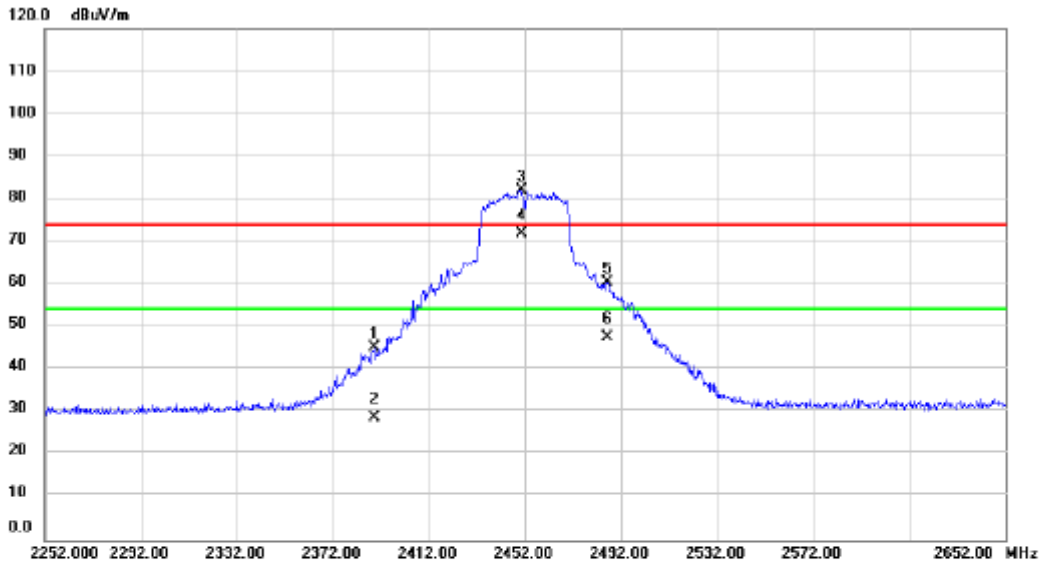
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.600	65.97	-6.12	59.85	74.00	-14.15	peak	
2		2389.600	53.44	-6.12	47.32	54.00	-6.68	AVG	
3	X	2429.200	88.09	-6.03	82.06	74.00	8.06	peak	No Limit
4	*	2429.200	77.63	-6.03	71.60	54.00	17.60	AVG	No Limit
5		2484.000	51.40	-5.92	45.48	74.00	-28.52	peak	
6		2484.000	34.81	-5.92	28.89	54.00	-25.11	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

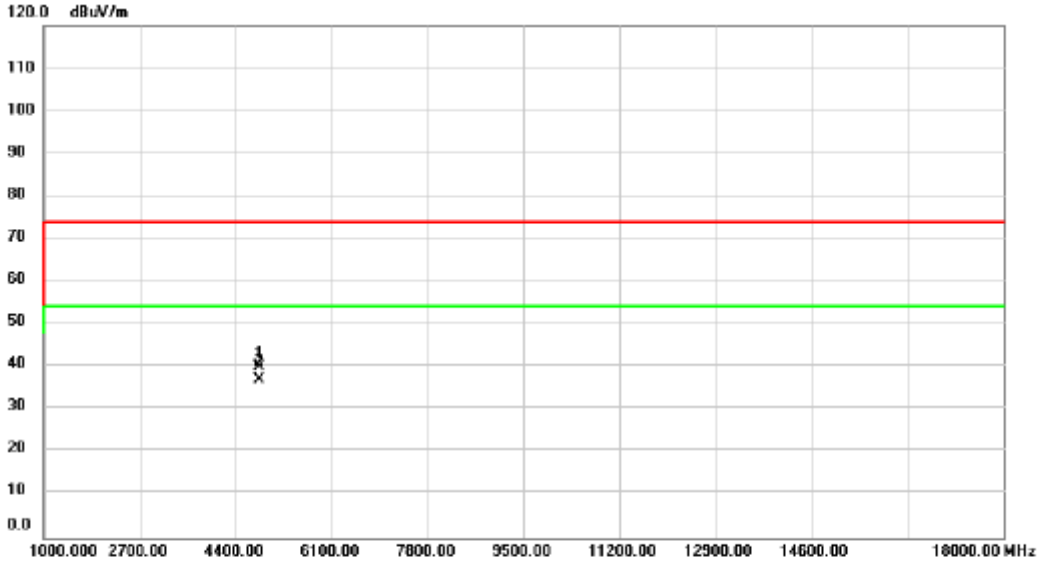
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.200	51.28	-6.12	45.16	74.00	-28.84	peak	
2		2389.200	34.65	-6.12	28.53	54.00	-25.47	AVG	
3	X	2450.400	88.04	-5.99	82.05	74.00	8.05	peak	No Limit
4	*	2450.400	77.98	-5.99	71.99	54.00	17.99	AVG	No Limit
5		2486.400	66.39	-5.91	60.48	74.00	-13.52	peak	
6		2486.400	53.40	-5.91	47.49	54.00	-6.51	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

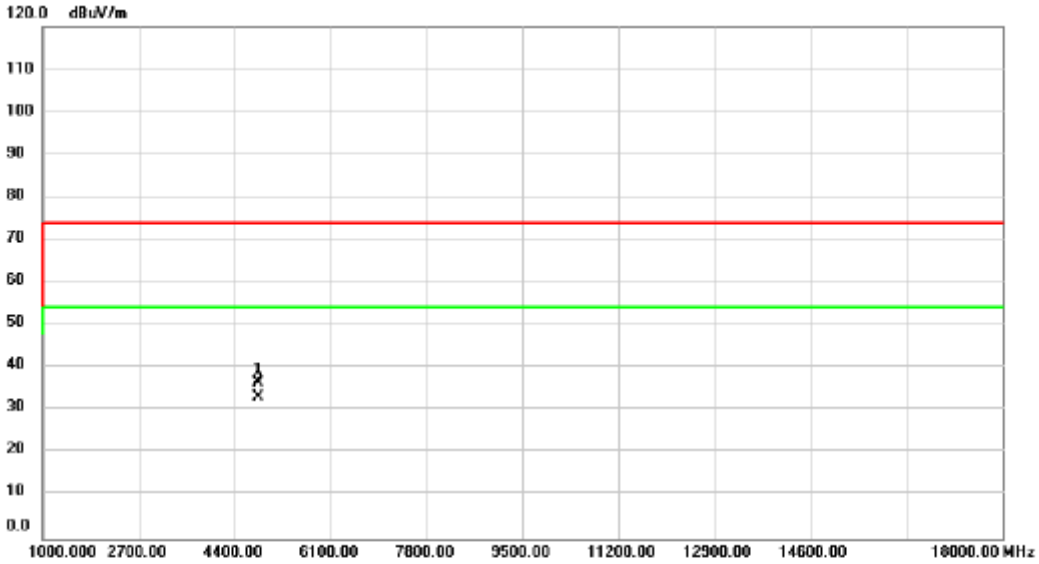
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	48.55	-8.56	39.99	74.00	-34.01	peak	
2	*	4825.000	45.63	-8.56	37.07	54.00	-16.93	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

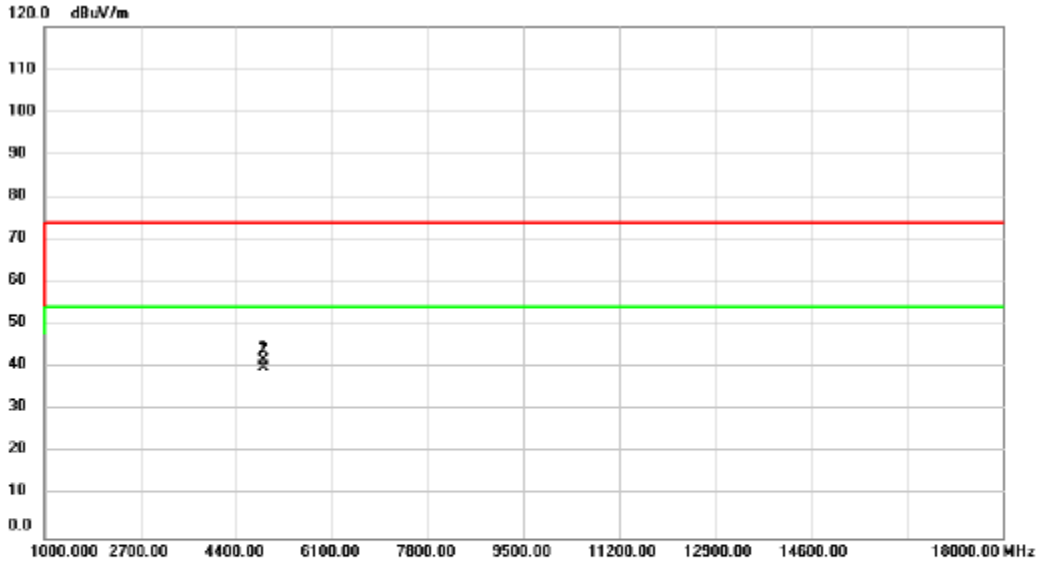
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	44.98	-8.56	36.42	74.00	-37.58	peak	
2	*	4825.000	41.69	-8.56	33.13	54.00	-20.87	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

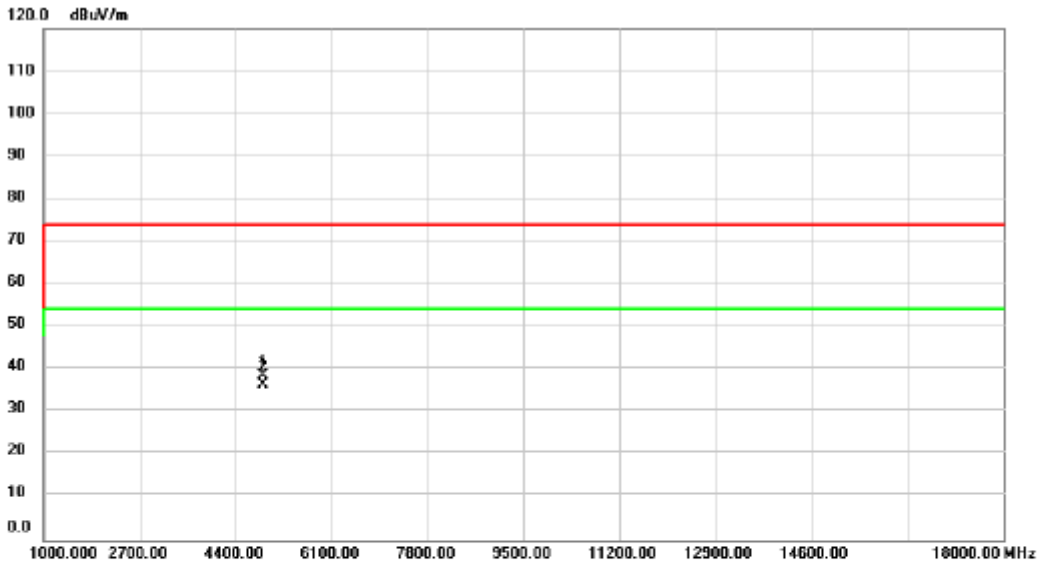
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	50.04	-8.43	41.61	74.00	-32.39	peak	
2	*	4876.000	48.36	-8.43	39.93	54.00	-14.07	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	46.88	-8.43	38.45	74.00	-35.55	peak	
2	*	4876.000	44.93	-8.43	36.50	54.00	-17.50	AVG	

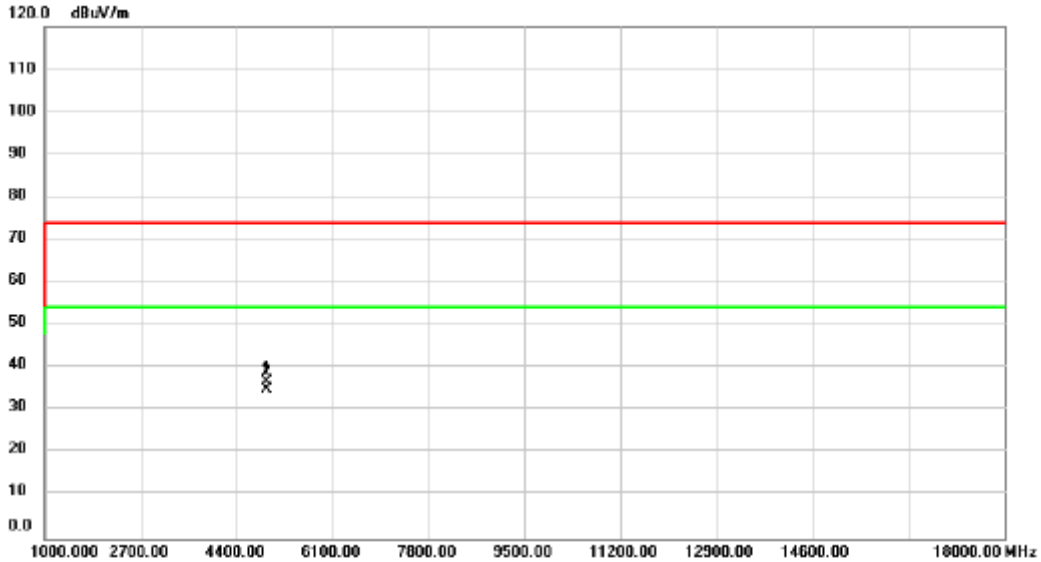
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	48.52	-8.31	40.21	74.00	-33.79	peak	
2	*	4927.000	46.87	-8.31	38.56	54.00	-15.44	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

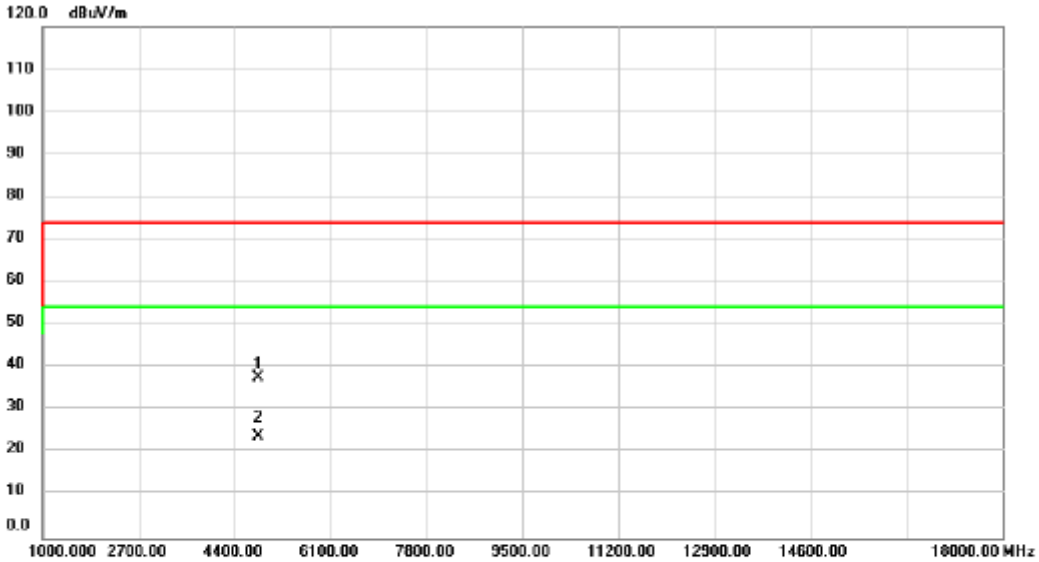
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	45.16	-8.31	36.85	74.00	-37.15	peak	
2	*	4927.000	43.24	-8.31	34.93	54.00	-19.07	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

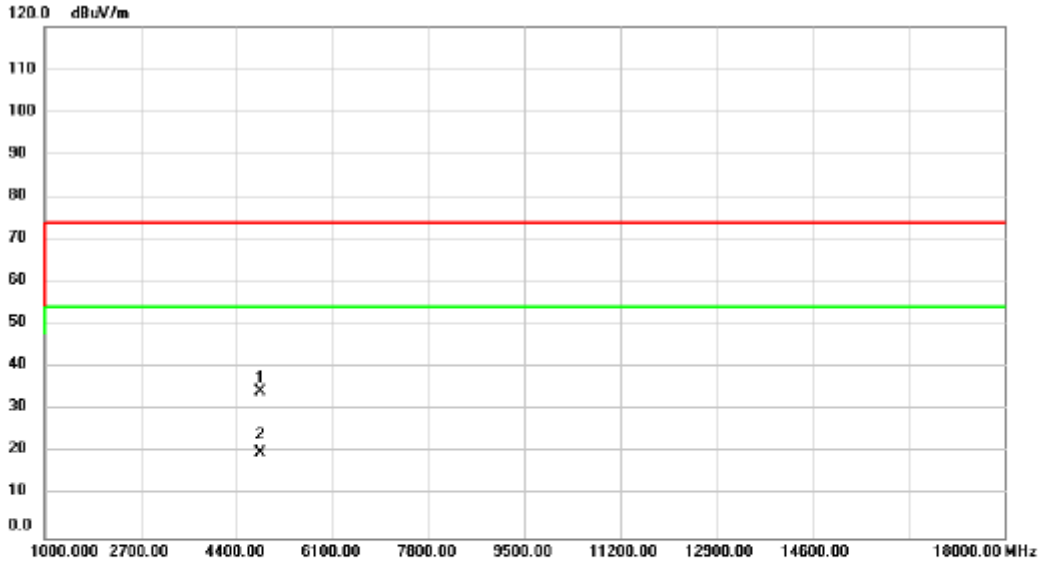
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	46.07	-8.56	37.51	74.00	-36.49	peak	
2	*	4825.000	32.28	-8.56	23.72	54.00	-30.28	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

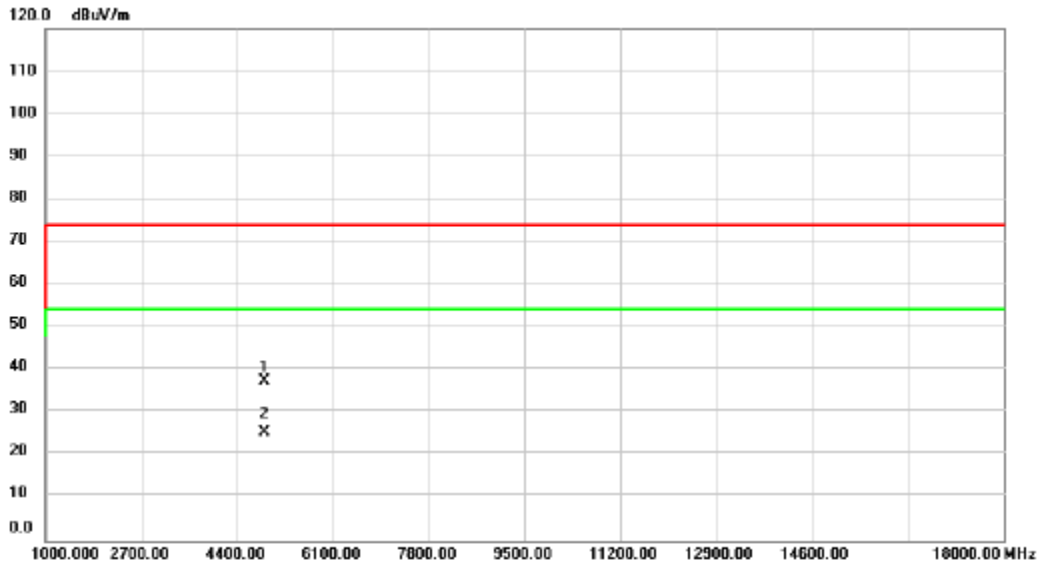
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	42.99	-8.56	34.43	74.00	-39.57	peak	
2	*	4825.000	28.48	-8.56	19.92	54.00	-34.08	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

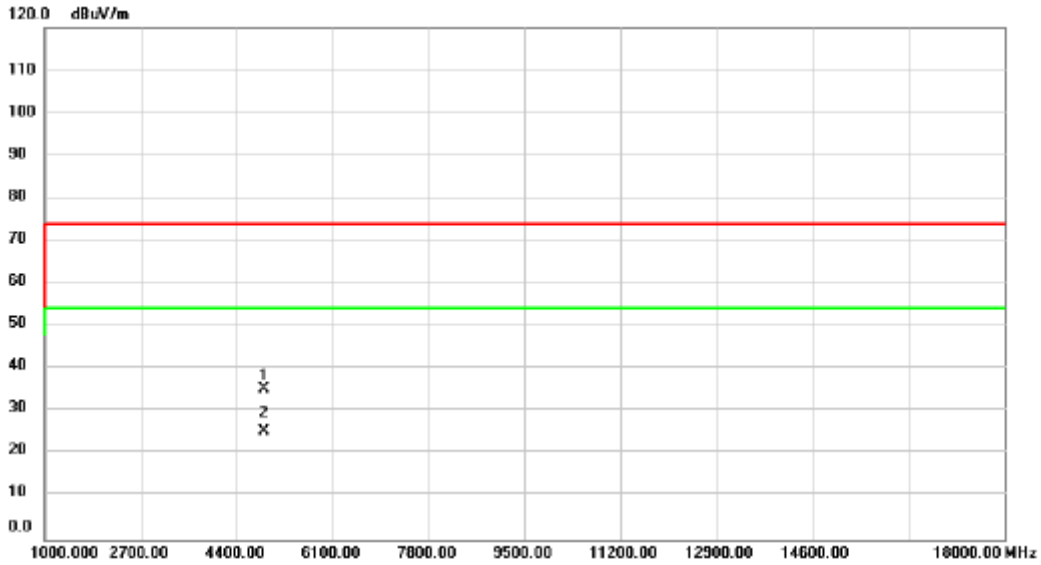
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	45.82	-8.43	37.39	74.00	-36.61	peak	
2	*	4876.000	33.77	-8.43	25.34	54.00	-28.66	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

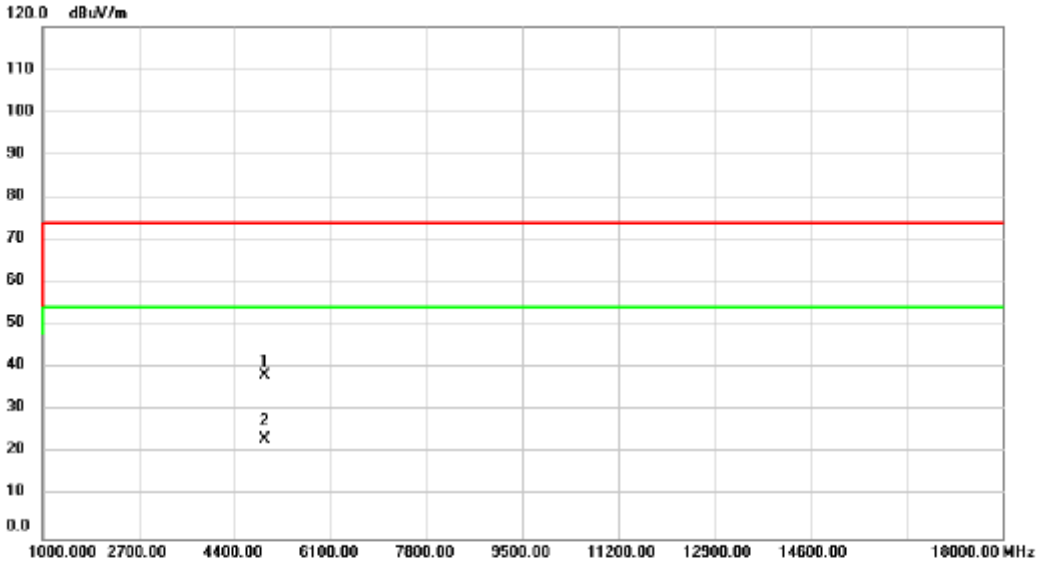
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	43.72	-8.43	35.29	74.00	-38.71	peak	
2	*	4876.000	33.70	-8.43	25.27	54.00	-28.73	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

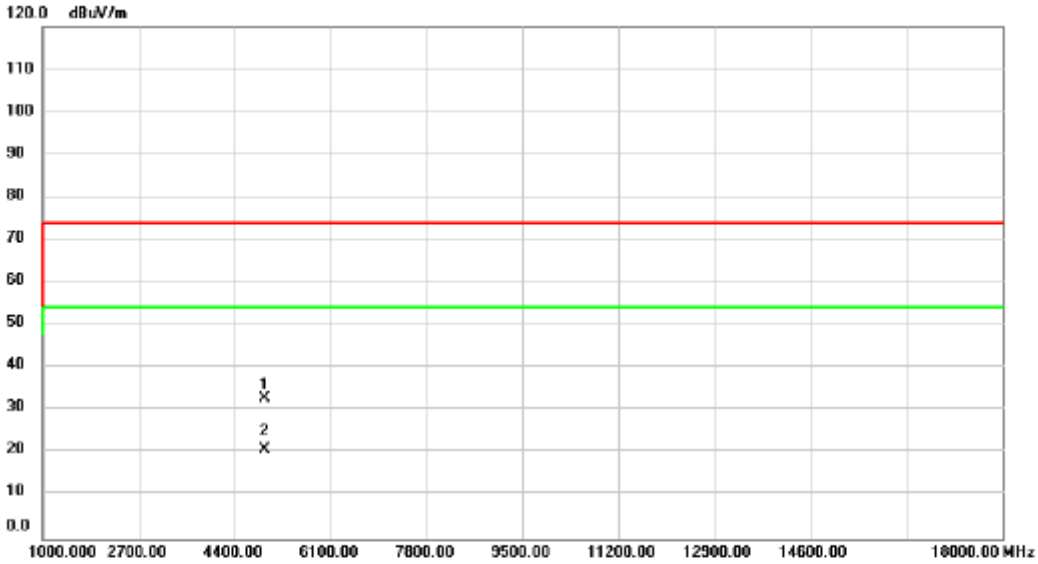
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	46.70	-8.31	38.39	74.00	-35.61	peak	
2	*	4927.000	31.59	-8.31	23.28	54.00	-30.72	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

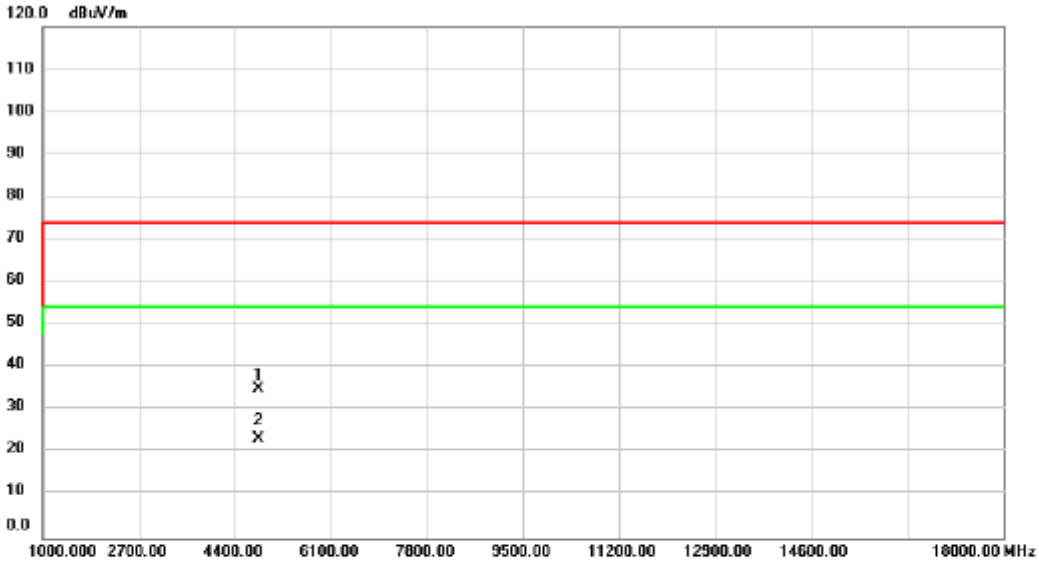
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	41.28	-8.31	32.97	74.00	-41.03	peak	
2	*	4927.000	29.31	-8.31	21.00	54.00	-33.00	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

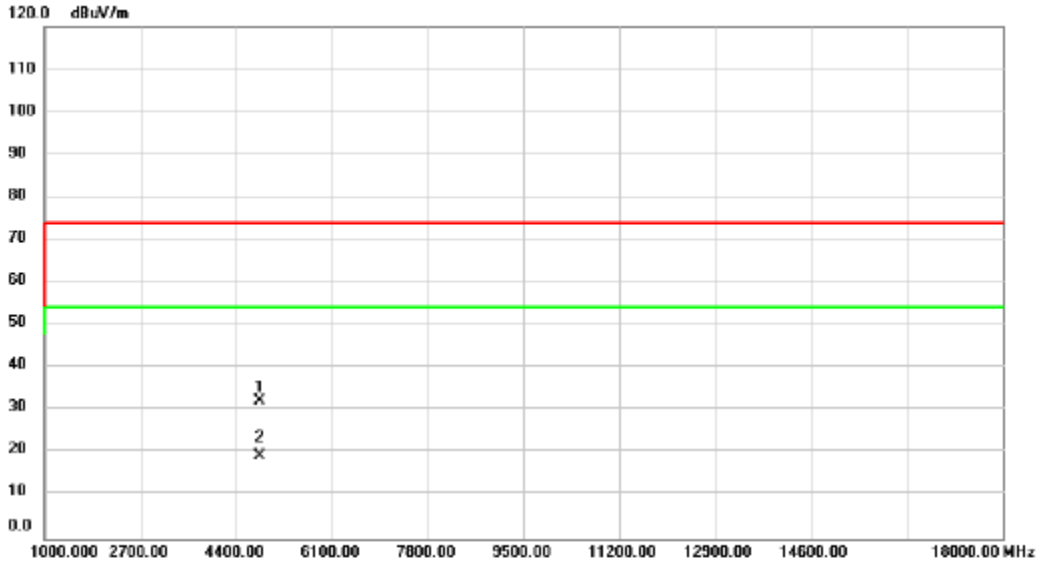
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	43.65	-8.56	35.09	74.00	-38.91	peak	
2	*	4825.000	31.81	-8.56	23.25	54.00	-30.75	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

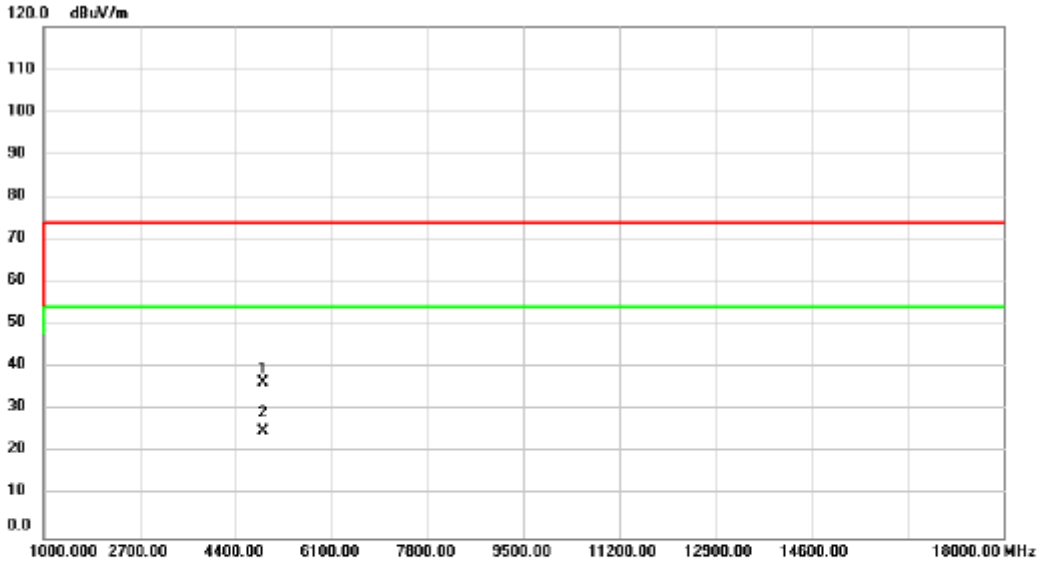
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	40.66	-8.56	32.10	74.00	-41.90	peak	
2	*	4825.000	27.79	-8.56	19.23	54.00	-34.77	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

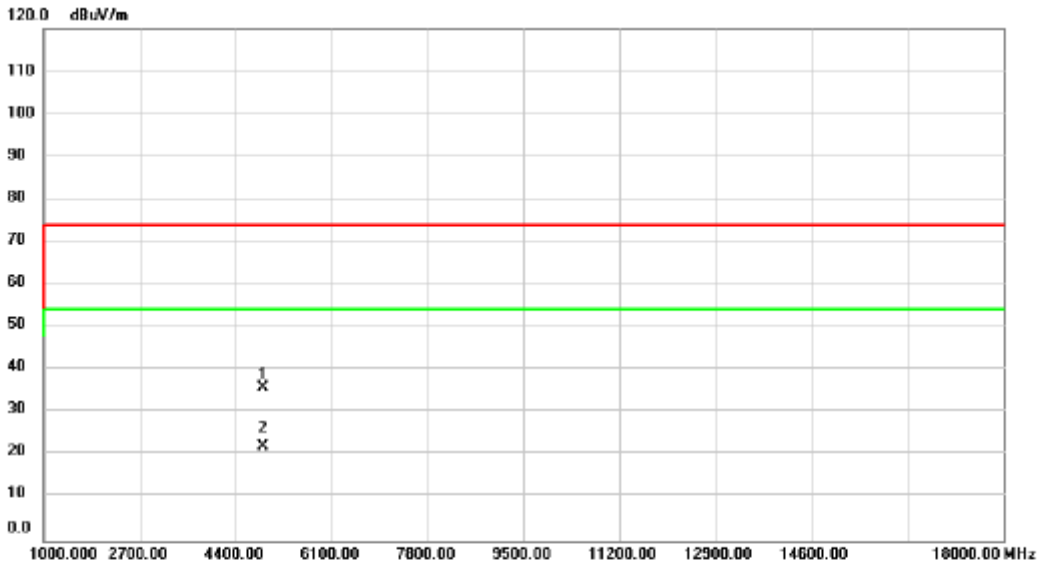
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	44.77	-8.43	36.34	74.00	-37.66	peak	
2	*	4876.000	33.47	-8.43	25.04	54.00	-28.96	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

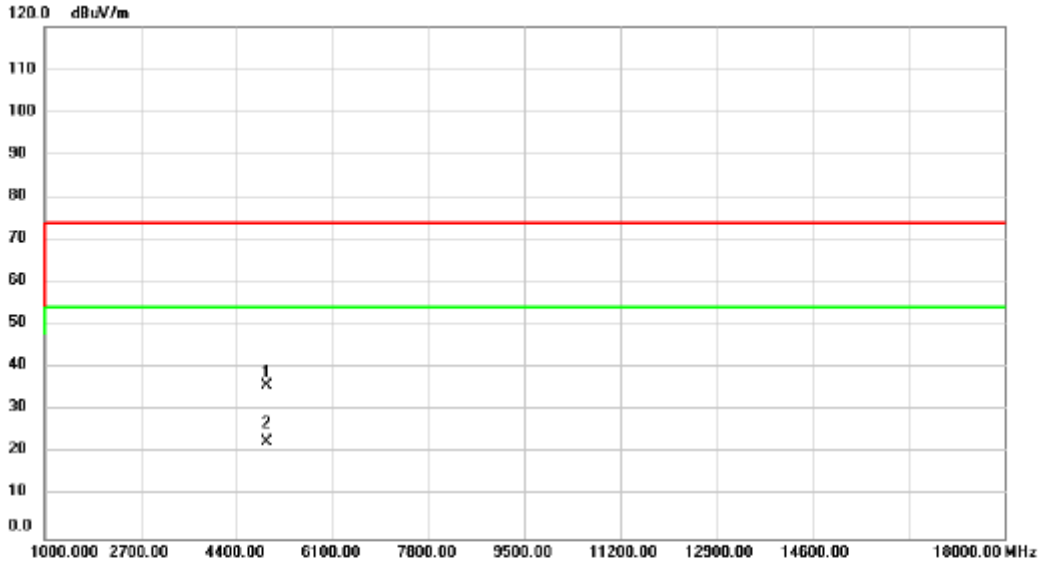
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	44.19	-8.43	35.76	74.00	-38.24	peak	
2	*	4876.000	30.48	-8.43	22.05	54.00	-31.95	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

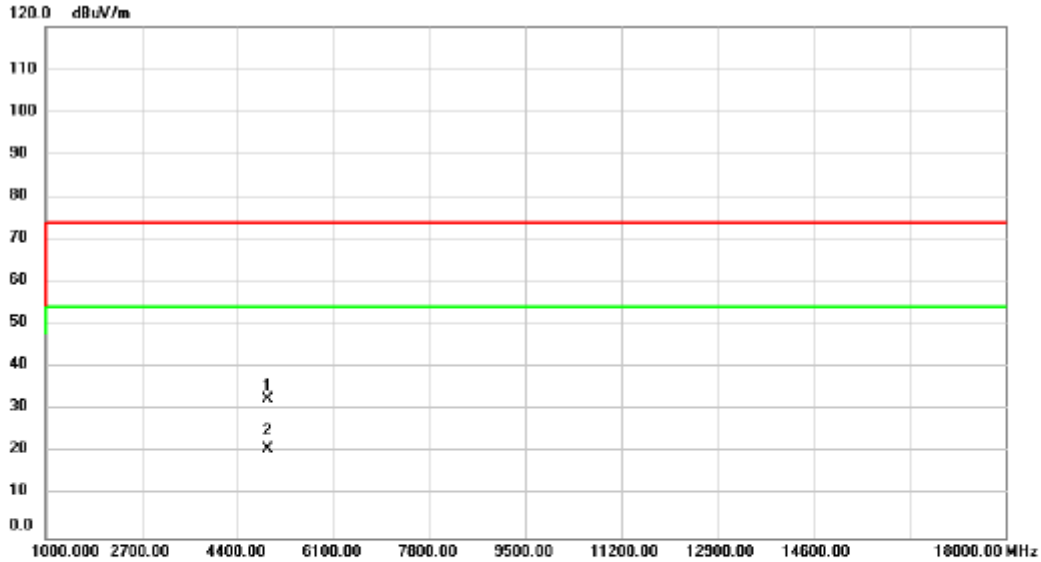
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	44.31	-8.31	36.00	74.00	-38.00	peak	
2	*	4927.000	31.04	-8.31	22.73	54.00	-31.27	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

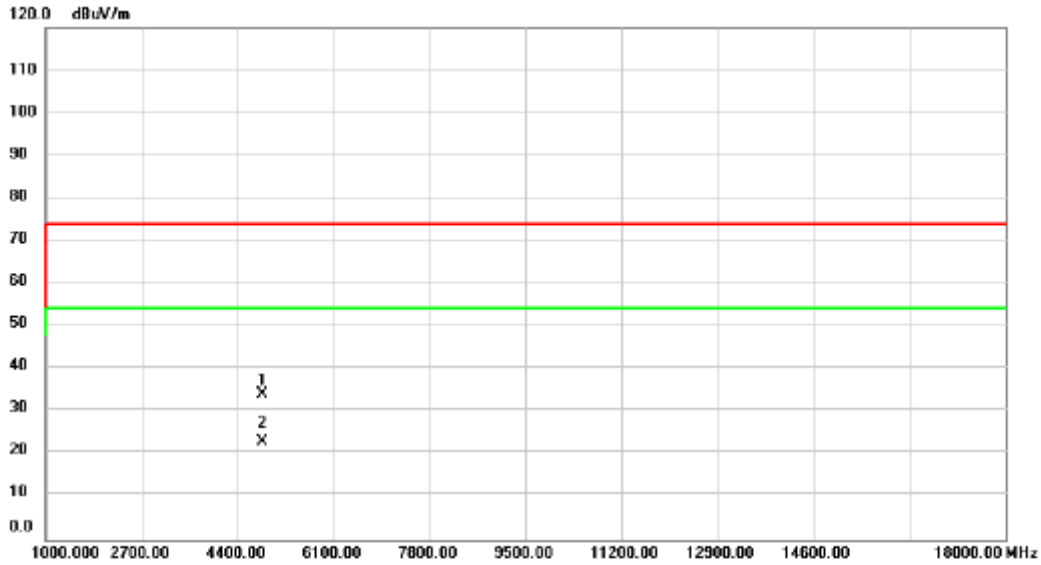
Test Mode	IEEE 802.11n(HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	40.88	-8.31	32.57	74.00	-41.43	peak	
2	*	4927.000	29.23	-8.31	20.92	54.00	-33.08	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

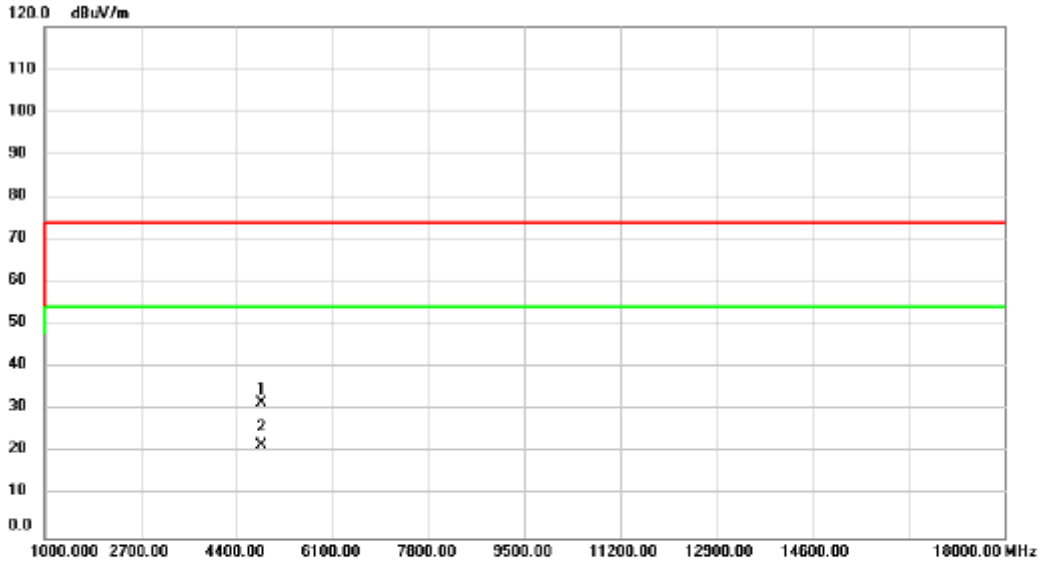
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4842.000	42.50	-8.52	33.98	74.00	-40.02	peak	
2	*	4842.000	31.40	-8.52	22.88	54.00	-31.12	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

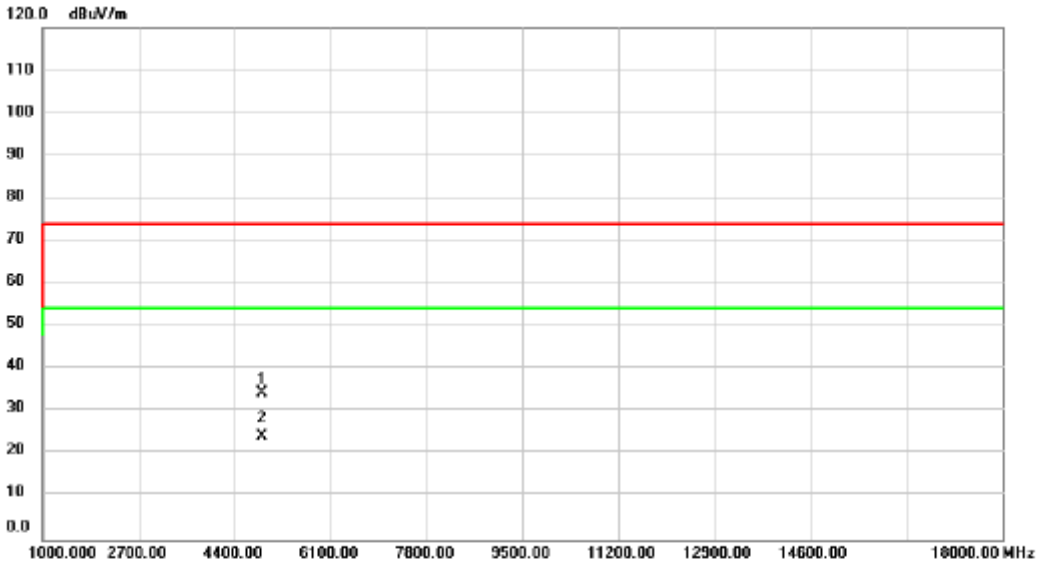
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4842.000	40.22	-8.52	31.70	74.00	-42.30	peak	
2	*	4842.000	30.24	-8.52	21.72	54.00	-32.28	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

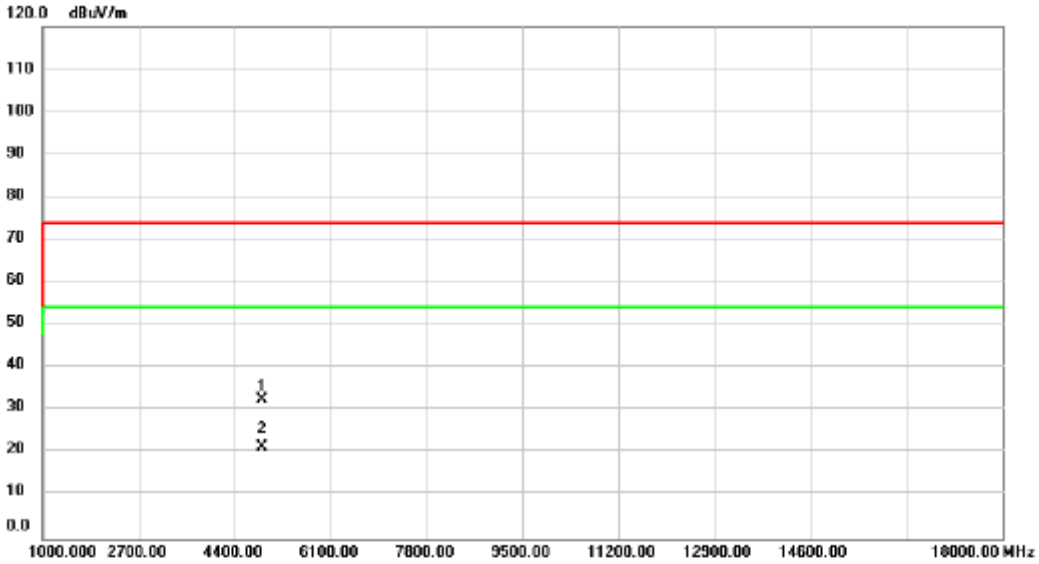
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	42.81	-8.43	34.38	74.00	-39.62	peak	
2	*	4876.000	32.69	-8.43	24.26	54.00	-29.74	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

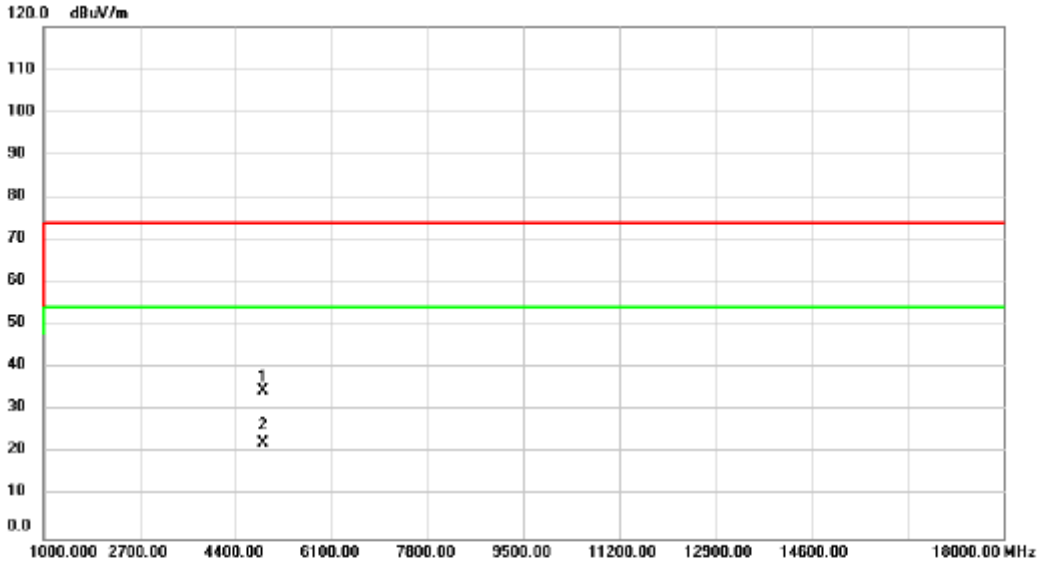
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	40.89	-8.43	32.46	74.00	-41.54	peak	
2	*	4876.000	29.80	-8.43	21.37	54.00	-32.63	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

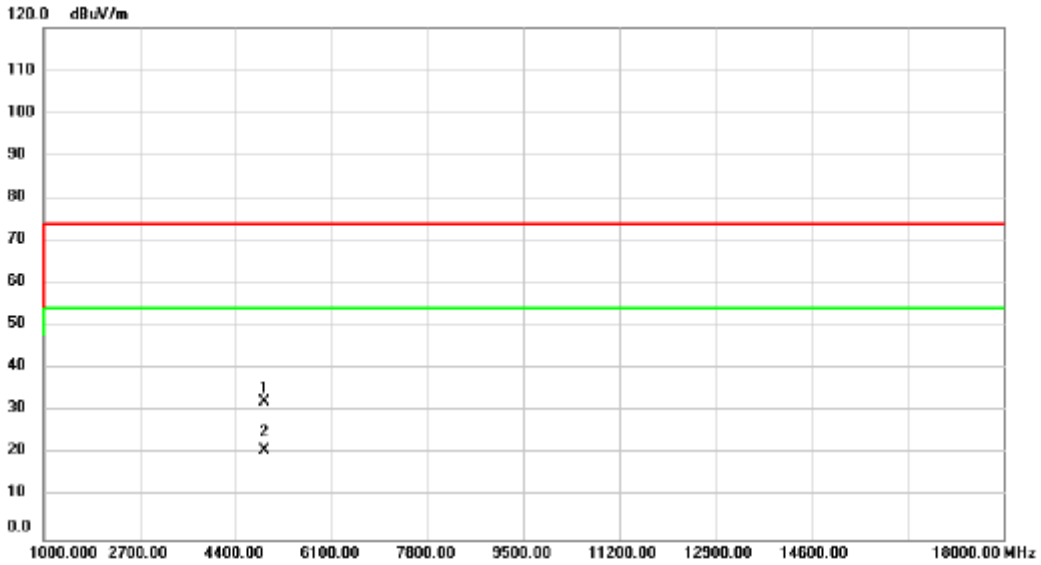
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4893.000	43.06	-8.39	34.67	74.00	-39.33	peak	
2	*	4893.000	30.86	-8.39	22.47	54.00	-31.53	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

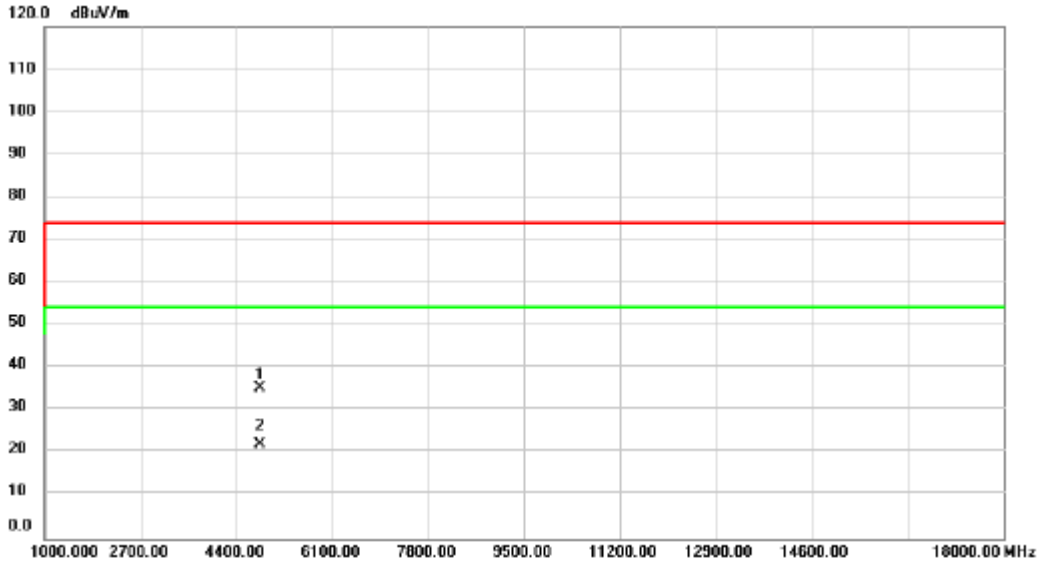
Test Mode	IEEE 802.11n(HT40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4910.000	40.56	-8.35	32.21	74.00	-41.79	peak	
2	*	4910.000	29.12	-8.35	20.77	54.00	-33.23	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

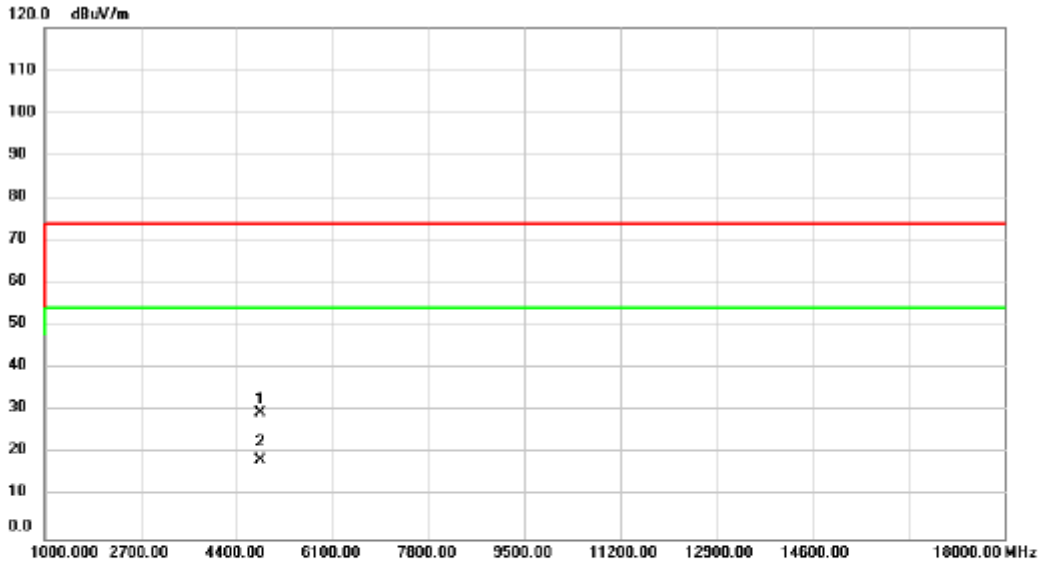
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	43.68	-8.56	35.12	74.00	-38.88	peak	
2	*	4825.000	30.52	-8.56	21.96	54.00	-32.04	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

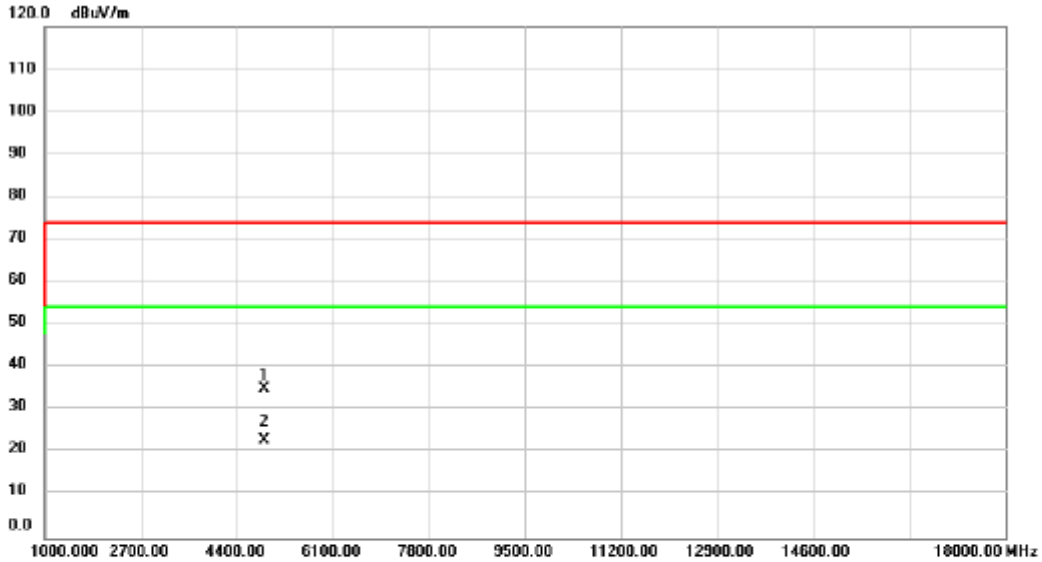
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.000	38.17	-8.56	29.61	74.00	-44.39	peak	
2	*	4825.000	26.96	-8.56	18.40	54.00	-35.60	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

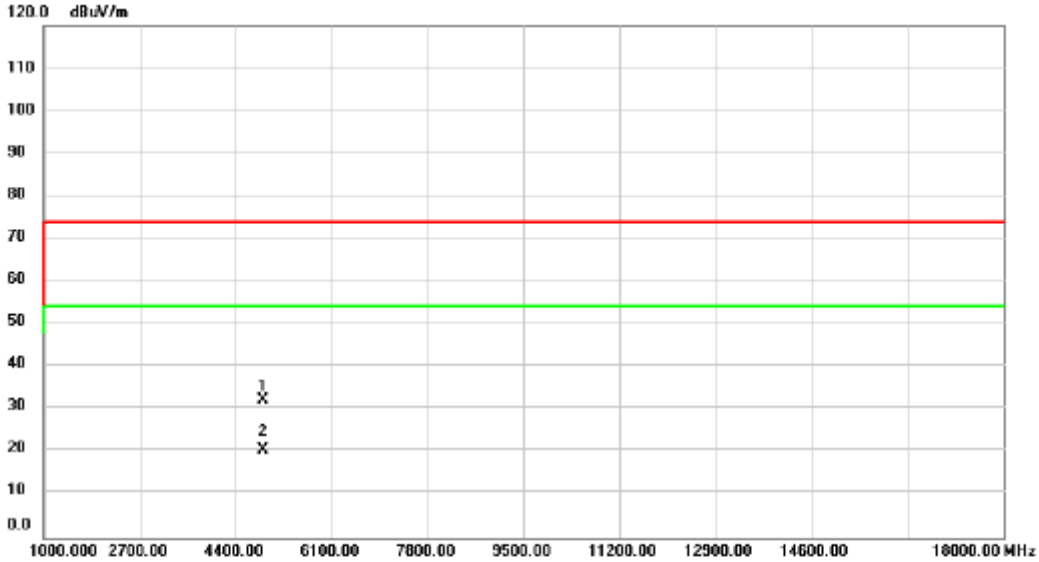
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	43.49	-8.43	35.06	74.00	-38.94	peak	
2	*	4876.000	31.48	-8.43	23.05	54.00	-30.95	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

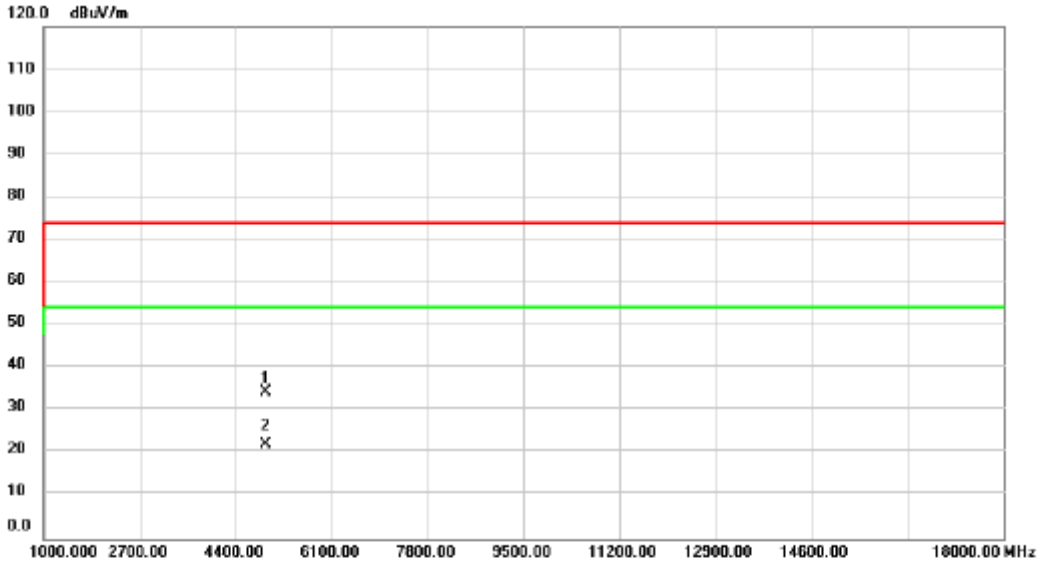
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	40.57	-8.43	32.14	74.00	-41.86	peak	
2	*	4876.000	29.06	-8.43	20.63	54.00	-33.37	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

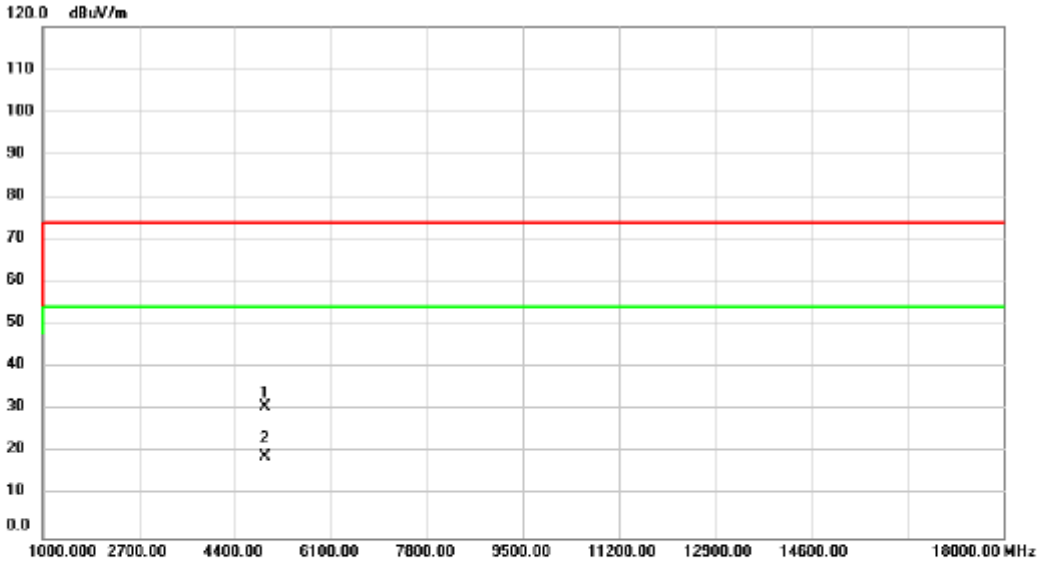
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	42.53	-8.31	34.22	74.00	-39.78	peak	
2	*	4927.000	30.22	-8.31	21.91	54.00	-32.09	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

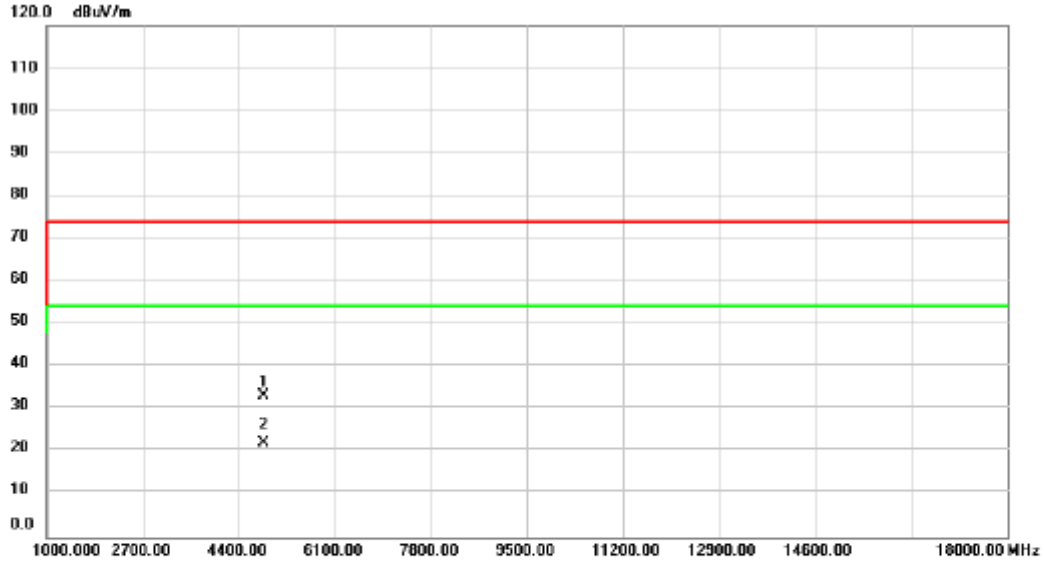
Test Mode	IEEE 802.11ax(HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4927.000	39.08	-8.31	30.77	74.00	-43.23	peak	
2	*	4927.000	27.40	-8.31	19.09	54.00	-34.91	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

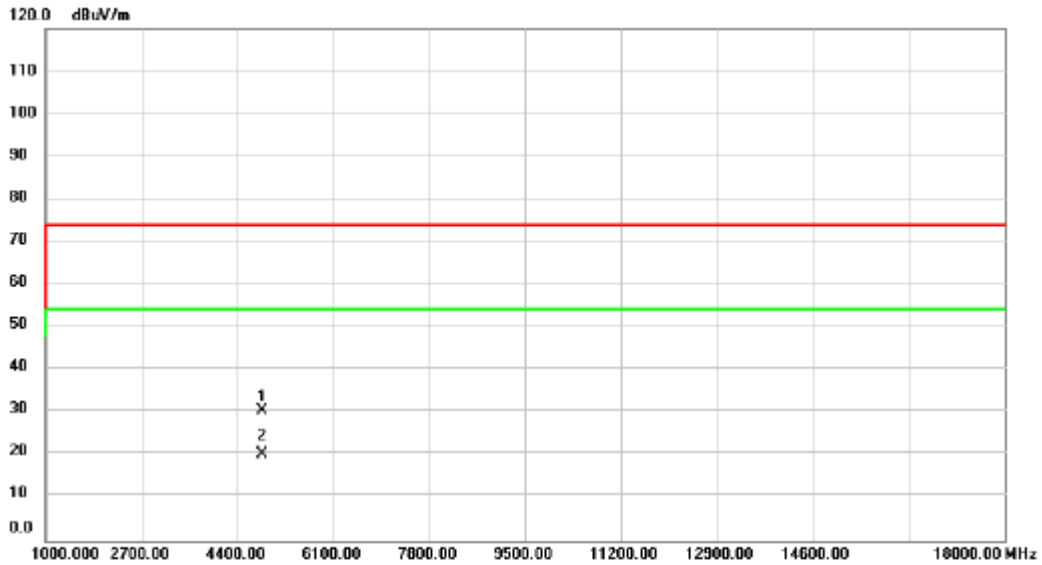
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4842.000	41.74	-8.52	33.22	74.00	-40.78	peak	
2	*	4842.000	30.66	-8.52	22.14	54.00	-31.86	AVG	

EMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

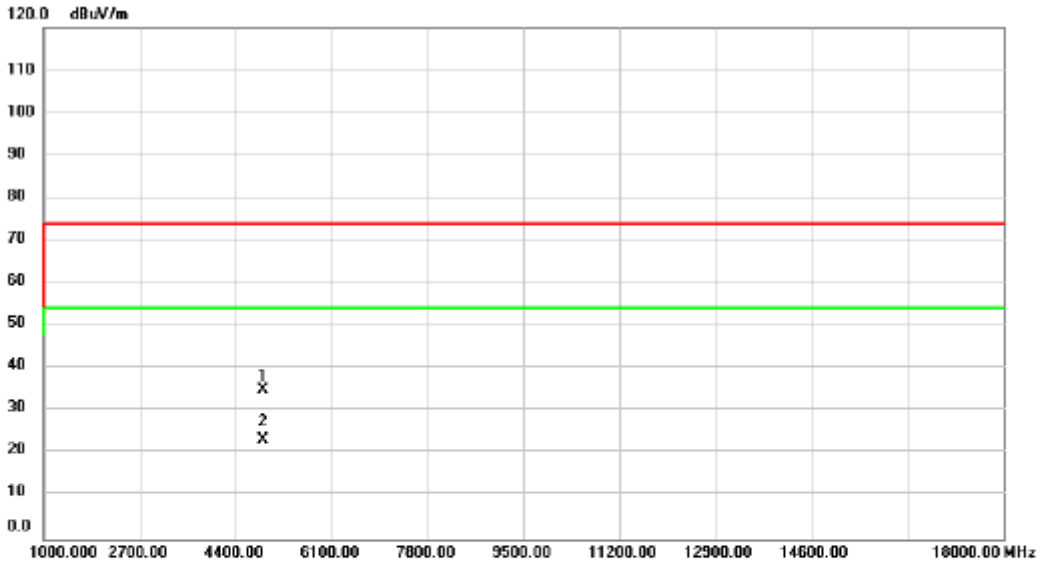
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2422MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4842.000	38.98	-8.52	30.46	74.00	-43.54	peak	
2	*	4842.000	28.87	-8.52	20.35	54.00	-33.65	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

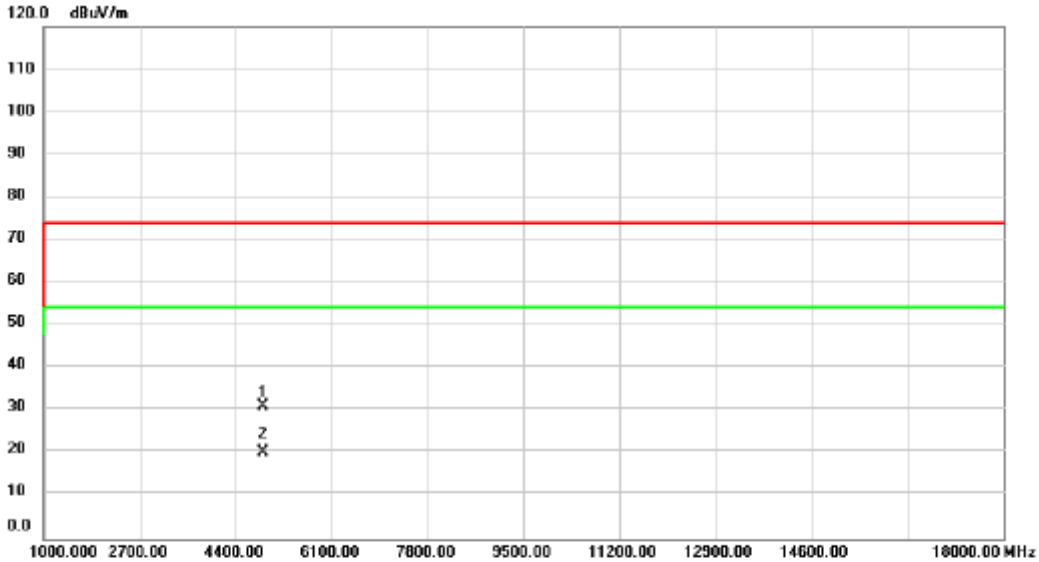
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	43.40	-8.43	34.97	74.00	-39.03	peak	
2	*	4876.000	31.82	-8.43	23.39	54.00	-30.61	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

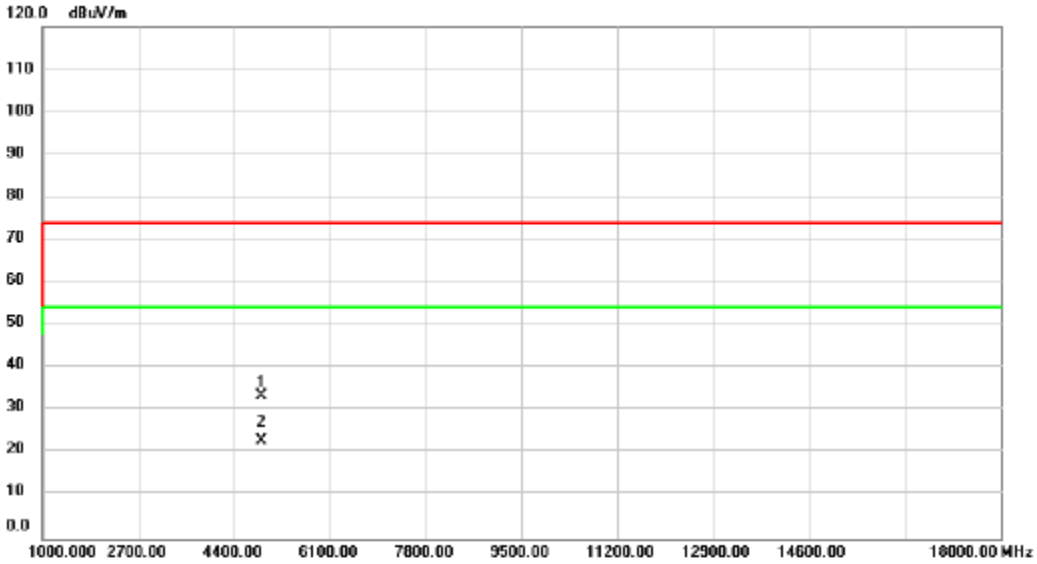
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4876.000	39.56	-8.43	31.13	74.00	-42.87	peak	
2	*	4876.000	28.76	-8.43	20.33	54.00	-33.67	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

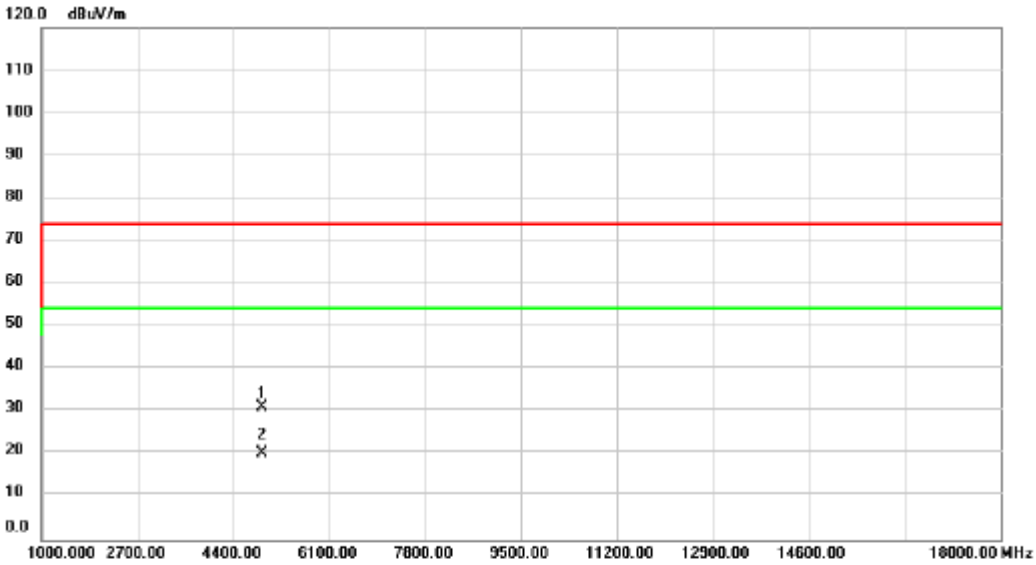
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4893.000	41.87	-8.39	33.48	74.00	-40.52	peak	
2	*	4893.000	31.44	-8.39	23.05	54.00	-30.95	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

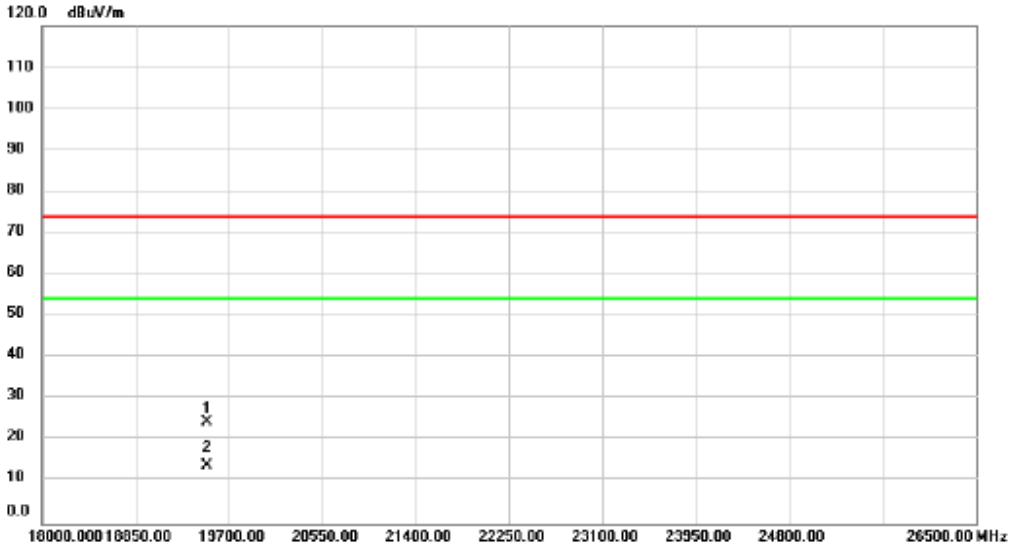
Test Mode	IEEE 802.11ax(HE40)	Test Date	2024/9/9
Test Frequency	2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4910.000	39.44	-8.35	31.09	74.00	-42.91	peak	
2	*	4910.000	28.53	-8.35	20.18	54.00	-33.82	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

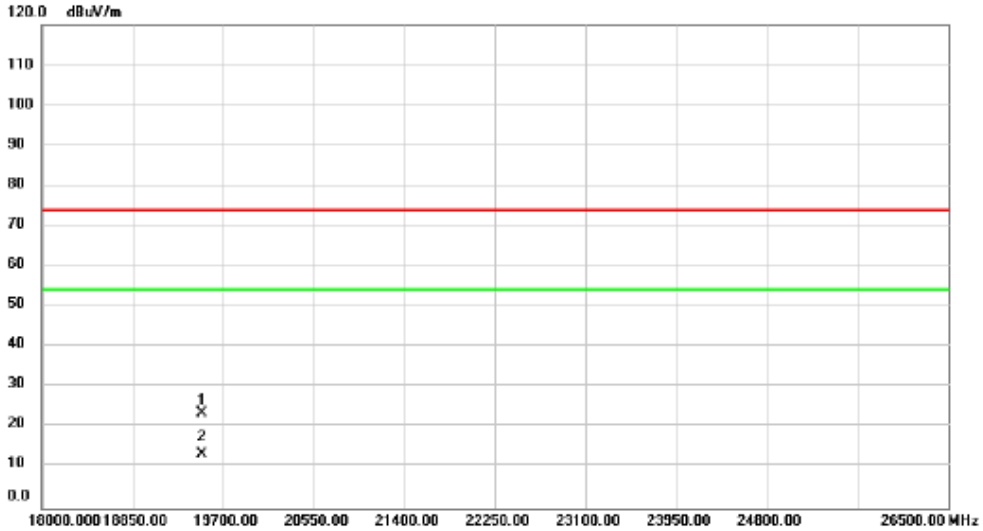
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19496.00	34.64	-10.23	24.41	74.00	-49.59	peak	
2	*	19496.00	24.33	-10.23	14.10	54.00	-39.90	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal

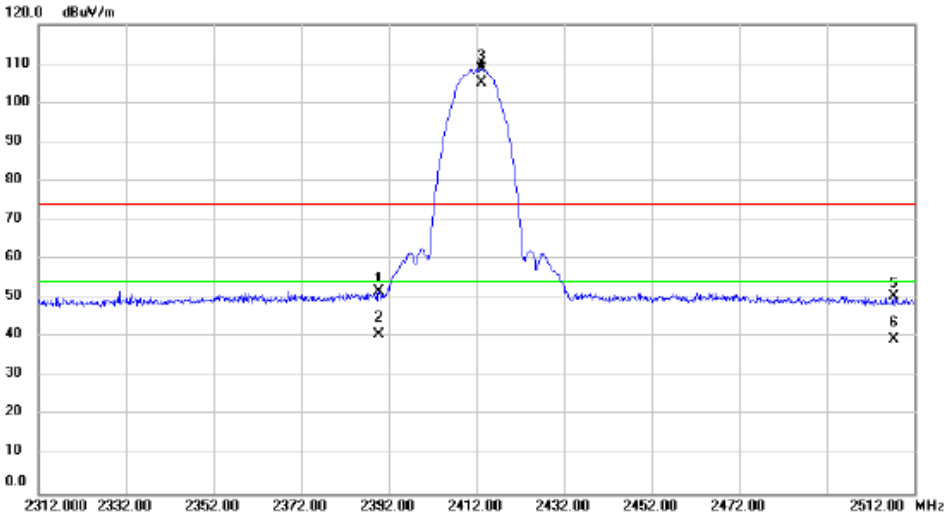


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19496.00	33.90	-10.23	23.67	74.00	-50.33	peak	
2	*	19496.00	23.66	-10.23	13.43	54.00	-40.57	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

For WR3000E:

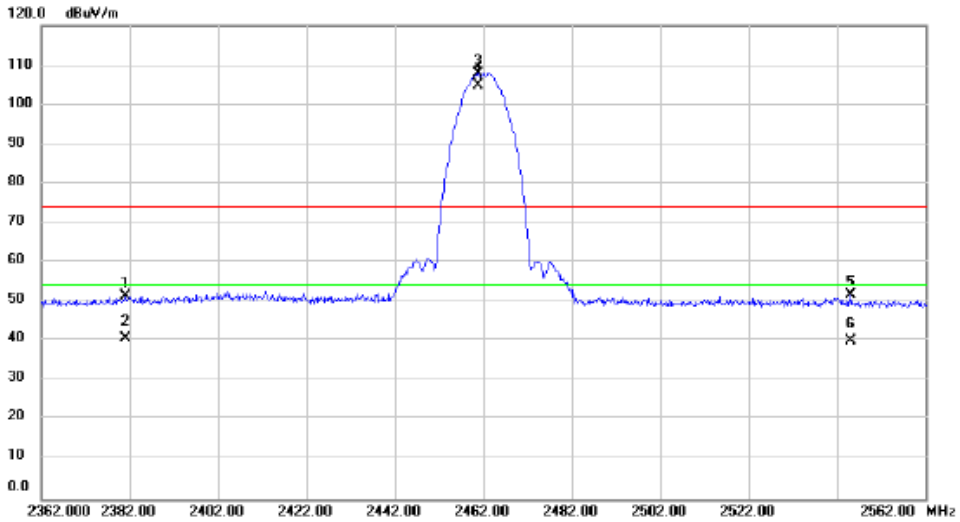
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2389.800	46.64	5.24	51.88	74.00	-22.12	peak			
2		2389.800	35.49	5.24	40.73	54.00	-13.27	AVG			
3	X	2413.200	103.43	5.29	108.72	74.00	34.72	peak			No Limit
4	*	2413.200	99.97	5.29	105.26	54.00	51.26	AVG			No Limit
5		2507.400	45.22	5.47	50.69	74.00	-23.31	peak			
6		2507.400	33.98	5.47	39.45	54.00	-14.55	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

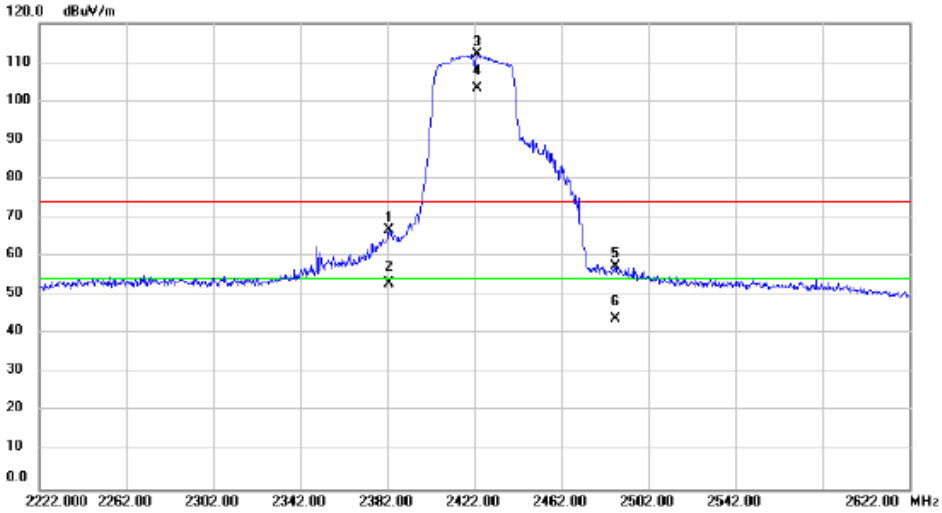
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2381.000	46.33	5.23	51.56	74.00	-22.44	peak			
2		2381.000	35.56	5.23	40.79	54.00	-13.21	AVG			
3	X	2460.800	102.51	5.36	107.87	74.00	33.87	peak			No Limit
4	*	2460.800	99.40	5.36	104.76	54.00	50.76	AVG			No Limit
5		2545.200	46.00	5.63	51.63	74.00	-22.37	peak			
6		2545.200	34.45	5.63	40.08	54.00	-13.92	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

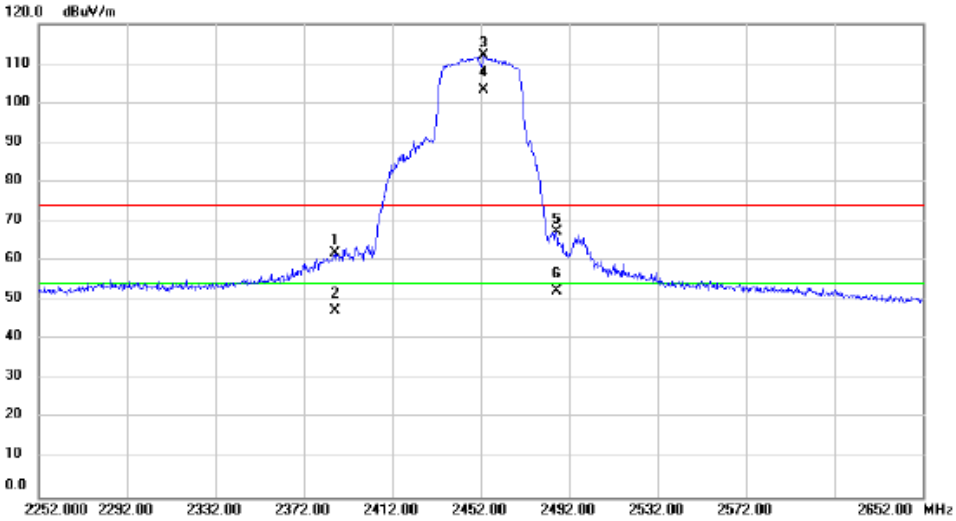
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2382.800	61.54	5.23	66.77	74.00	-7.23	peak			
2		2382.800	47.87	5.23	53.10	54.00	-0.90	AVG			
3	X	2423.200	106.74	5.30	112.04	74.00	38.04	peak			No Limit
4	*	2423.200	98.00	5.30	103.30	54.00	49.30	AVG			No Limit
5		2486.800	52.04	5.41	57.45	74.00	-16.55	peak			
6		2486.800	38.61	5.41	44.02	54.00	-9.98	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

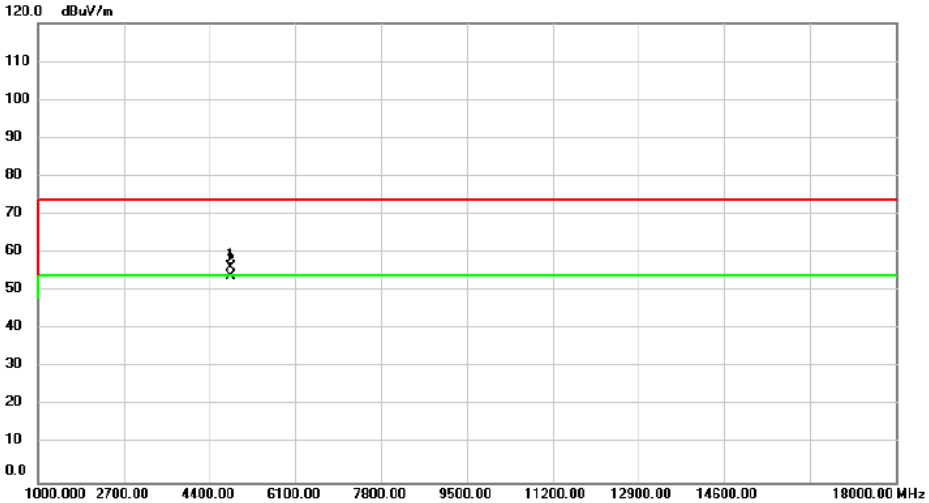
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2386.000	56.70	5.23	61.93	74.00	-12.07	peak			
2		2386.000	42.04	5.23	47.27	54.00	-6.73	AVG			
3	X	2453.200	106.56	5.35	111.91	74.00	37.91	peak			No Limit
4	*	2453.200	98.04	5.35	103.39	54.00	49.39	AVG			No Limit
5		2486.400	61.86	5.41	67.27	74.00	-6.73	peak			
6		2486.400	47.08	5.41	52.49	54.00	-1.51	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

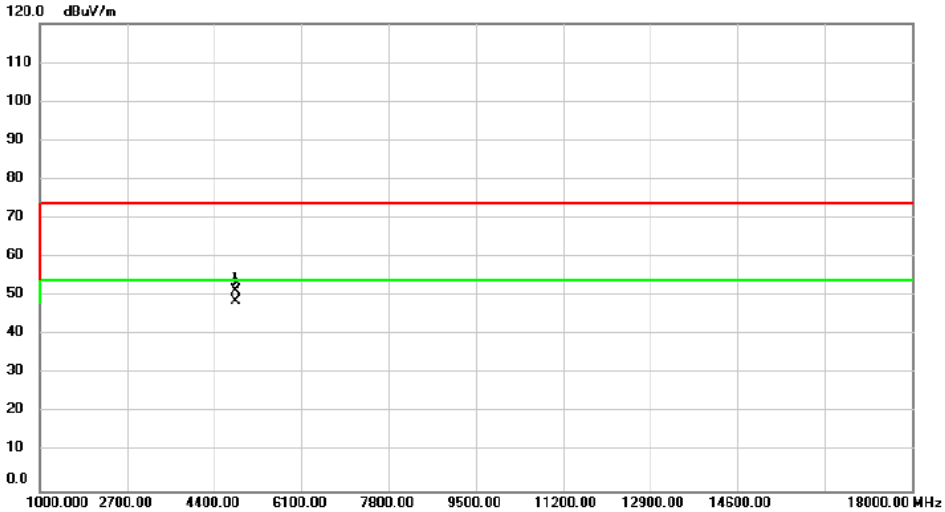
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2412MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4825.000	54.44	1.86	56.30	74.00	-17.70	peak			
2	*	4825.000	52.11	1.86	53.97	54.00	-0.03	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

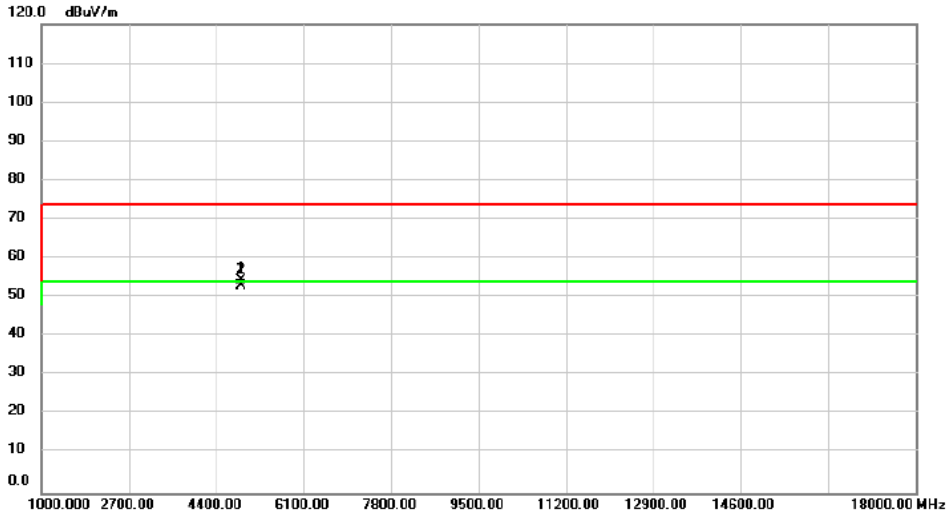
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2412MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4825.000	49.52	1.86	51.38	74.00	-22.62	peak			
2	*	4825.000	46.77	1.86	48.63	54.00	-5.37	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

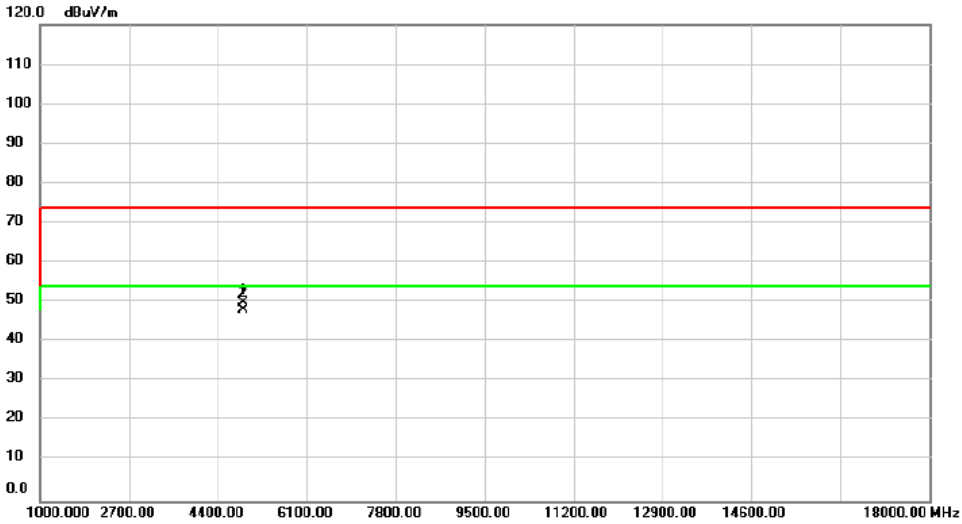
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4876.000	52.36	1.95	54.31	74.00	-19.69	peak			
2	*	4876.000	50.96	1.95	52.91	54.00	-1.09	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

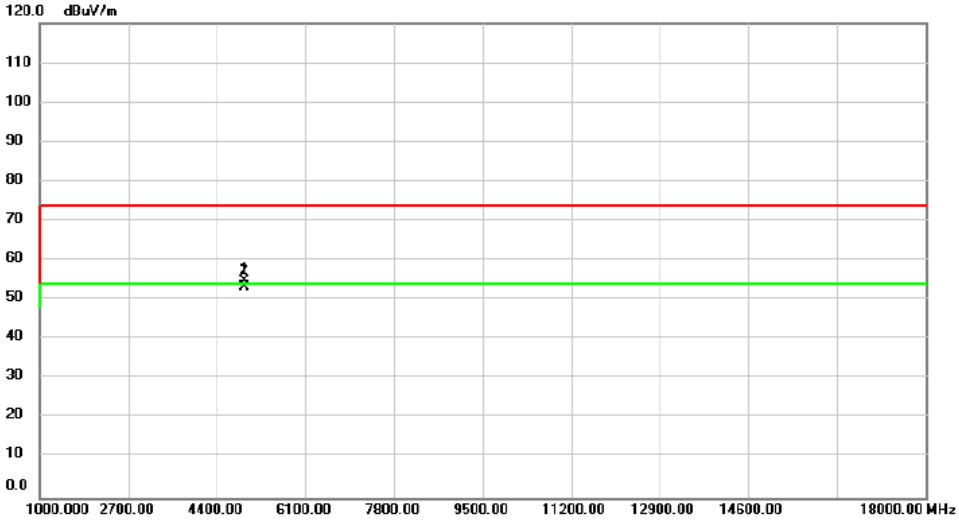
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4876.000	48.12	1.95	50.07	74.00	-23.93	peak			
2	*	4876.000	46.18	1.95	48.13	54.00	-5.87	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

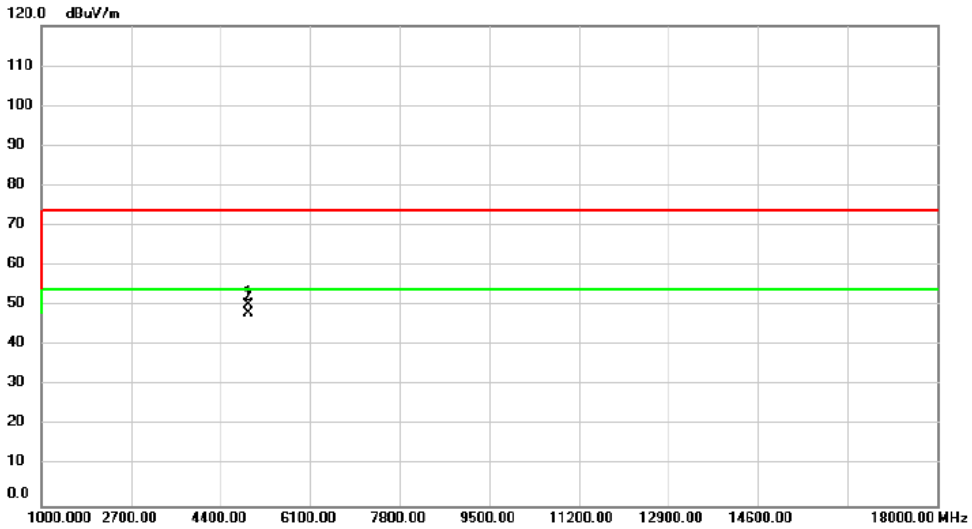
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2462MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4927.000	52.72	2.05	54.77	74.00	-19.23	peak			
2	*	4927.000	51.18	2.05	53.23	54.00	-0.77	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

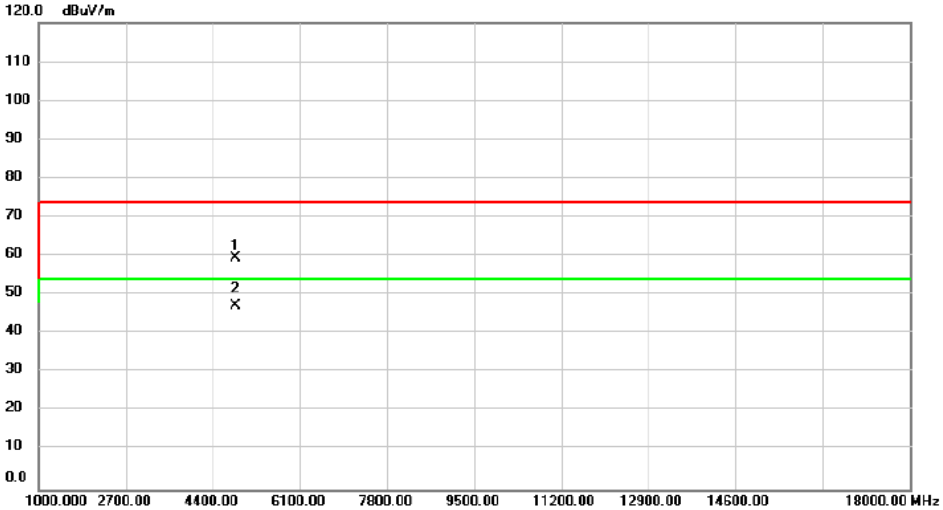
Test Mode	IEEE 802.11b	Test Date	2025/1/15
Test Frequency	2462MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4927.000	48.13	2.05	50.18	74.00	-23.82	peak			
2	*	4927.000	46.21	2.05	48.26	54.00	-5.74	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

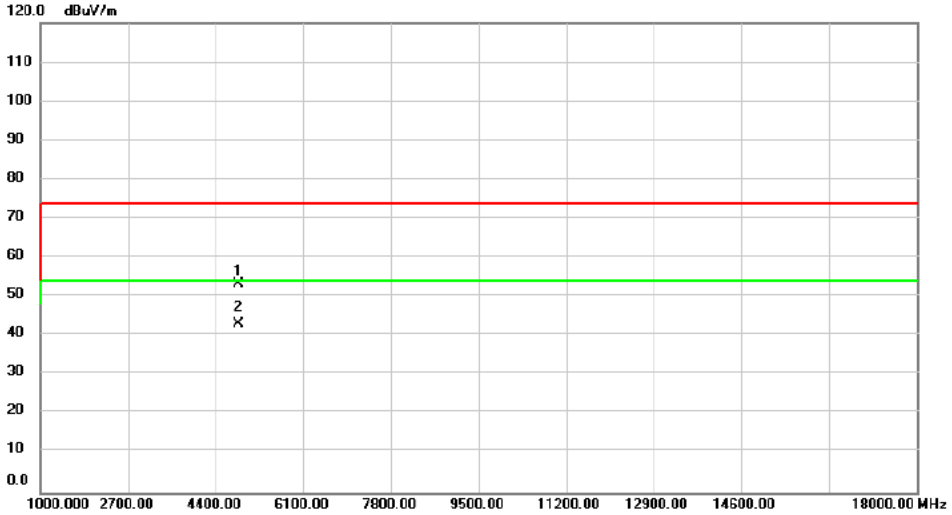
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2422MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4842.000	57.70	1.89	59.59	74.00	-14.41	peak			
2	*	4842.000	45.30	1.89	47.19	54.00	-6.81	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

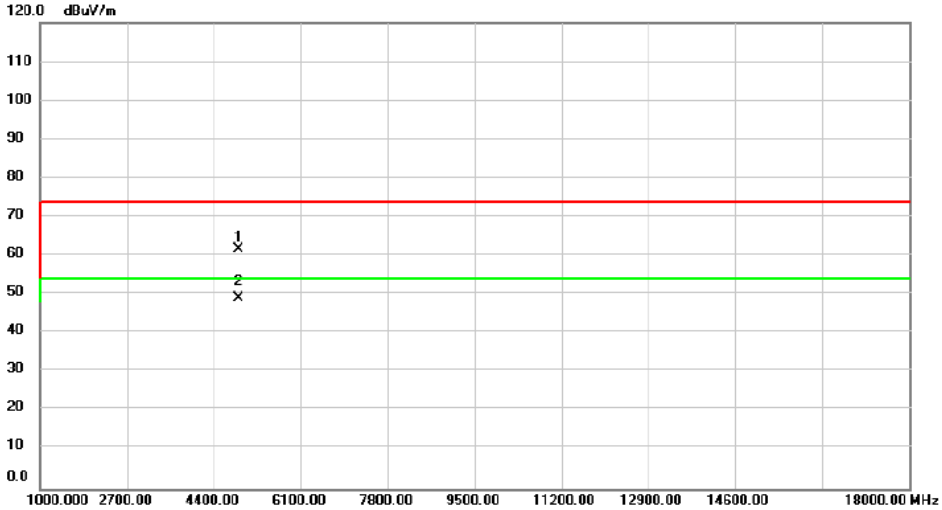
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2422MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4842.000	51.41	1.89	53.30	74.00	-20.70	peak			
2	*	4842.000	41.06	1.89	42.95	54.00	-11.05	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

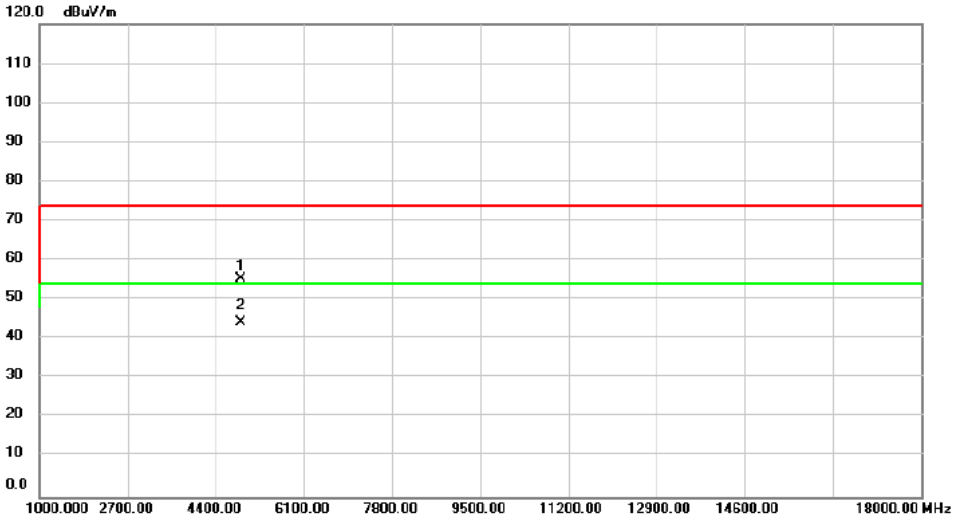
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2437MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4876.000	59.69	1.95	61.64	74.00	-12.36	peak			
2	*	4876.000	47.20	1.95	49.15	54.00	-4.85	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

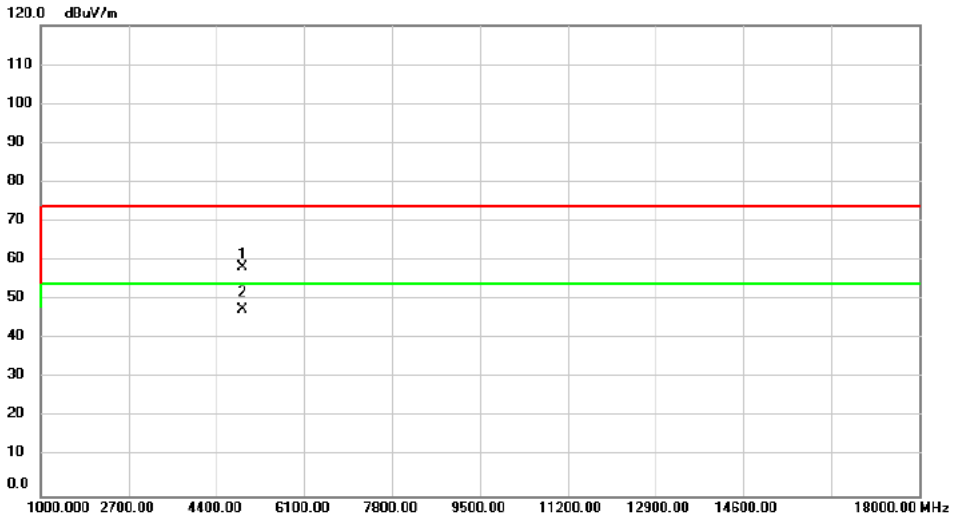
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2437MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4876.000	53.51	1.95	55.46	74.00	-18.54	peak			
2	*	4876.000	42.33	1.95	44.28	54.00	-9.72	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

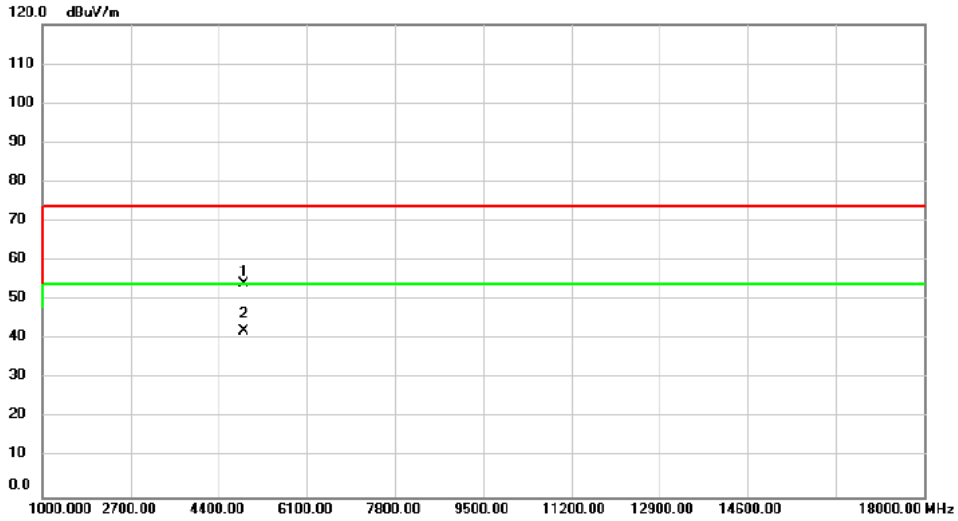
Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4910.000	56.25	2.02	58.27	74.00	-15.73	peak			
2	*	4910.000	45.57	2.02	47.59	54.00	-6.41	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n(HT40)	Test Date	2025/1/15
Test Frequency	2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4893.000	52.19	1.99	54.18	74.00	-19.82	peak			
2	*	4893.000	40.09	1.99	42.08	54.00	-11.92	AVG			

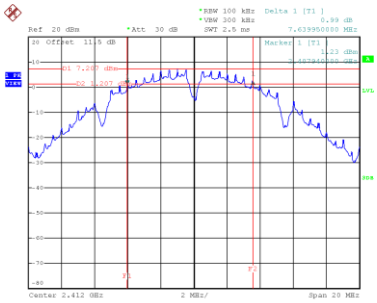
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D BANDWIDTH

Test Mode	IEEE 802.11b_Ant. 1

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.640	12.720	0.5	Complies
06	2437	7.630	12.720	0.5	Complies
11	2462	9.020	12.720	0.5	Complies

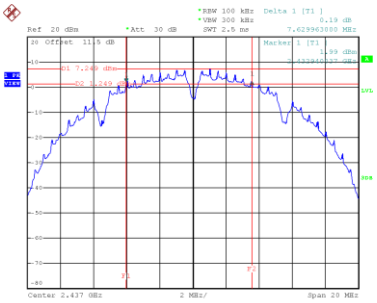
CH01



Date: 29.AUG.2024 18:39:23

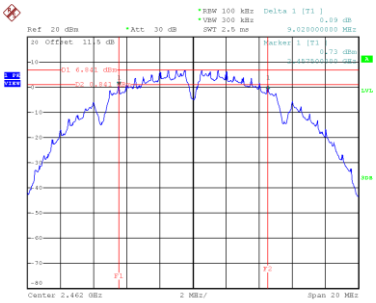
CH06

6 dB Bandwidth



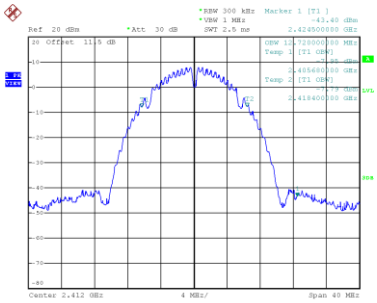
Date: 29.AUG.2024 18:41:07

CH11

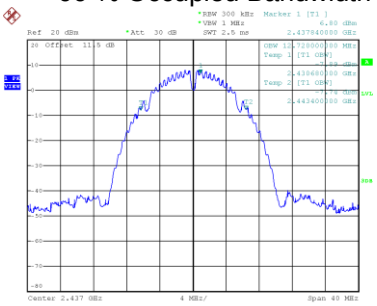


Date: 29.AUG.2024 18:43:14

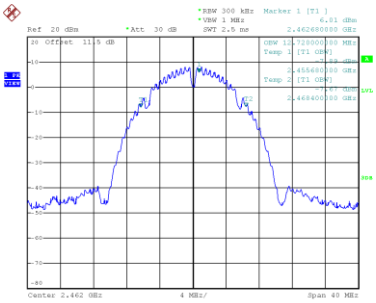
99 % Occupied Bandwidth



Date: 29.AUG.2024 18:45:32



Date: 29.AUG.2024 18:41:16

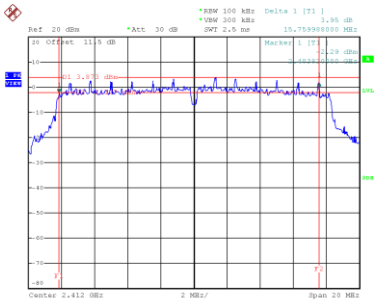


Date: 29.AUG.2024 18:43:23

Test Mode	IEEE 802.11g_Ant. 1

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.760	17.120	0.5	Complies
06	2437	15.719	17.200	0.5	Complies
11	2462	15.590	17.040	0.5	Complies

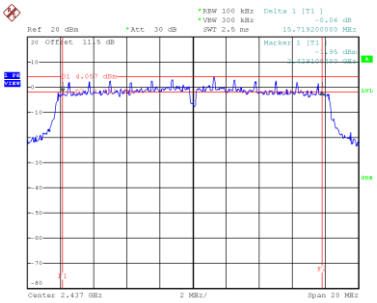
CH01



Date: 29.AUG.2024 18:46:42

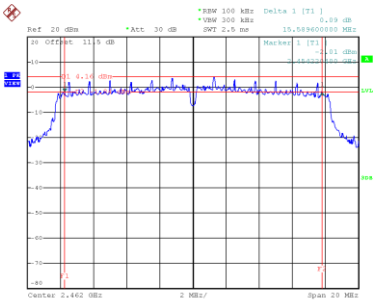
CH06

6 dB Bandwidth

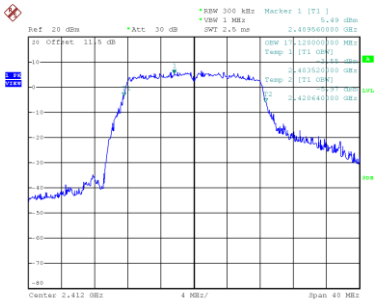


Date: 29.AUG.2024 18:49:44

CH11

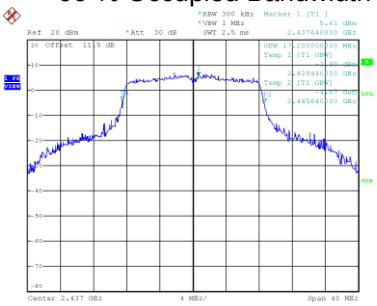


Date: 29.AUG.2024 18:51:16

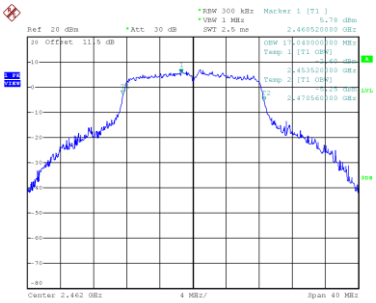


Date: 29.AUG.2024 18:46:51

99 % Occupied Bandwidth



Date: 29.AUG.2024 18:49:53



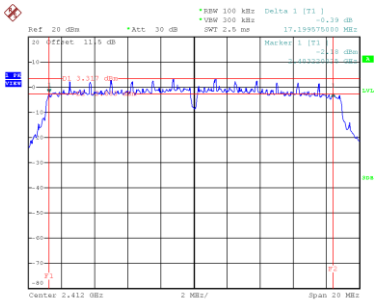
Date: 29.AUG.2024 18:51:25

Test Mode	IEEE 802.11n (HT20) _Ant. 1

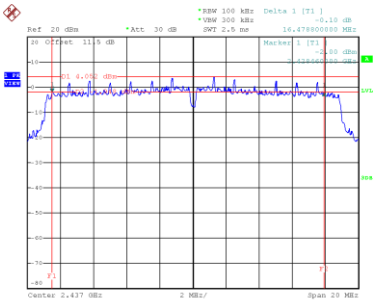
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.200	18.080	0.5	Complies
06	2437	16.479	18.240	0.5	Complies
11	2462	16.279	18.160	0.5	Complies

CH01 **CH06** **CH11**

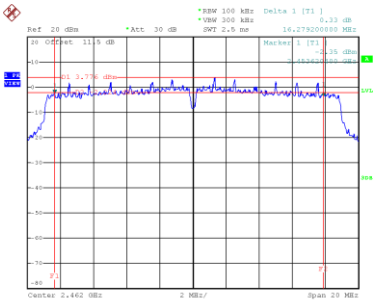
6 dB Bandwidth



Date: 29.AUG.2024 18:55:23

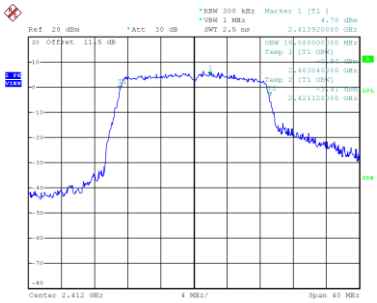


Date: 29.AUG.2024 18:56:52

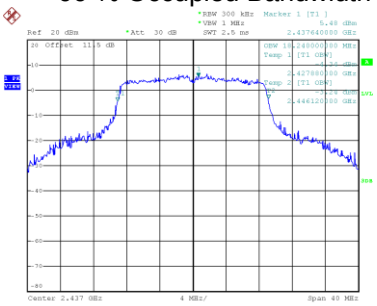


Date: 29.AUG.2024 18:58:22

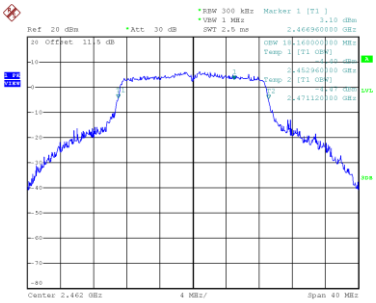
99 % Occupied Bandwidth



Date: 29.AUG.2024 18:55:32



Date: 29.AUG.2024 18:57:01

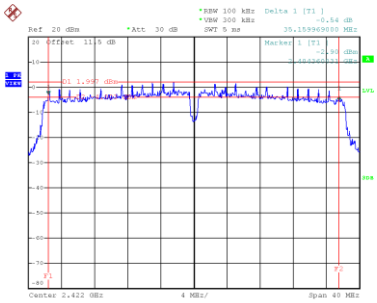


Date: 29.AUG.2024 18:58:31

Test Mode	IEEE 802.11n (HT40) _Ant. 1

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.160	36.960	0.5	Complies
06	2437	35.280	37.120	0.5	Complies
09	2452	35.200	36.960	0.5	Complies

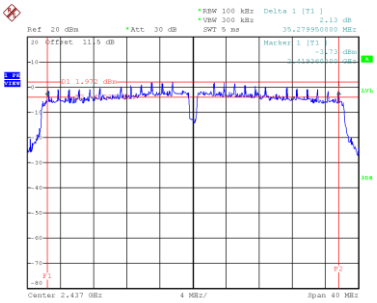
CH03



Date: 29.AUG.2024 19:00:26

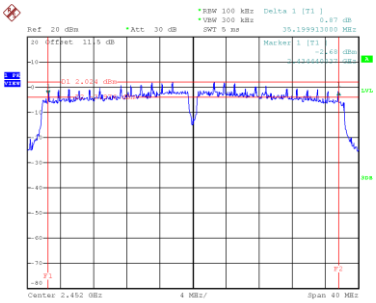
CH06

6 dB Bandwidth



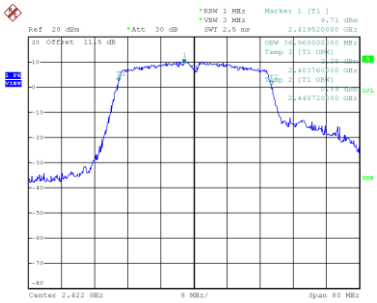
Date: 29.AUG.2024 19:02:08

CH09

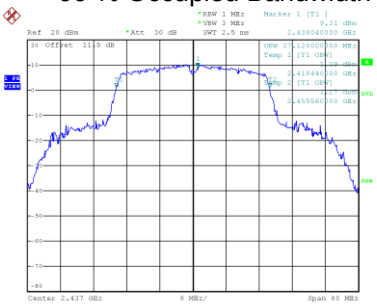


Date: 29.AUG.2024 19:03:47

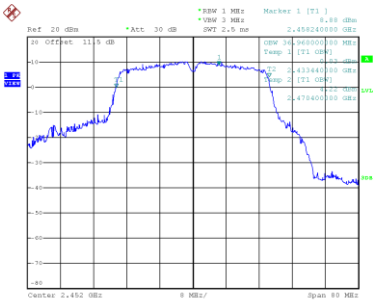
99 % Occupied Bandwidth



Date: 29.AUG.2024 19:00:35



Date: 29.AUG.2024 19:02:17



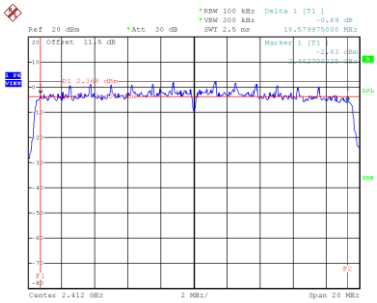
Date: 29.AUG.2024 19:03:55

Test Mode	IEEE 802.11ax (HE20) _Ant. 1

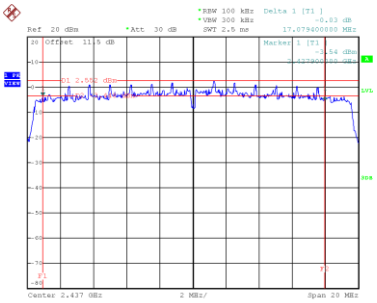
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.580	18.960	0.5	Complies
06	2437	17.079	19.280	0.5	Complies
11	2462	18.150	19.120	0.5	Complies

CH01 **CH06** **CH11**

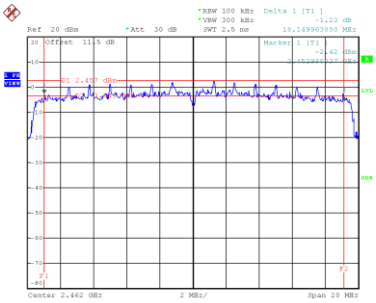
6 dB Bandwidth



Date: 29.AUG.2024 19:06:09

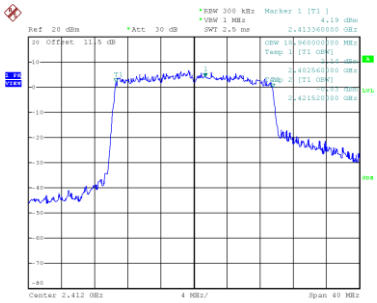


Date: 29.AUG.2024 19:07:35

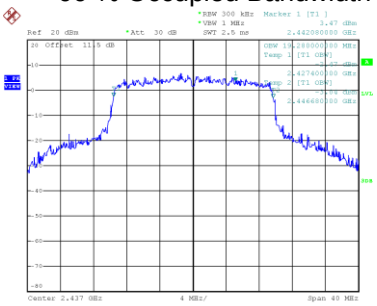


Date: 29.AUG.2024 19:09:05

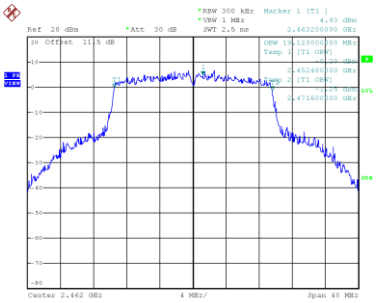
99 % Occupied Bandwidth



Date: 29.AUG.2024 19:06:18



Date: 29.AUG.2024 19:07:44

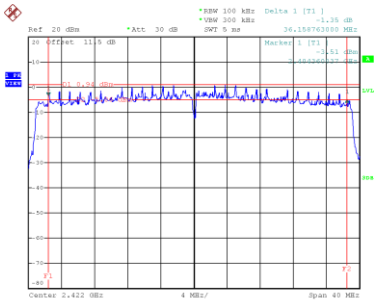


Date: 29.AUG.2024 19:09:14

Test Mode	IEEE 802.11ax (HE40) _Ant. 1

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.159	38.240	0.5	Complies
06	2437	35.439	38.240	0.5	Complies
09	2452	35.209	38.240	0.5	Complies

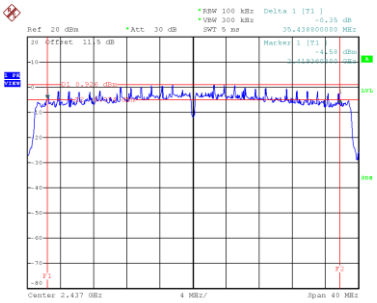
CH03



Date: 29.AUG.2024 19:11:13

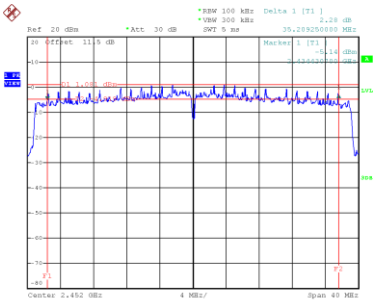
CH06

6 dB Bandwidth



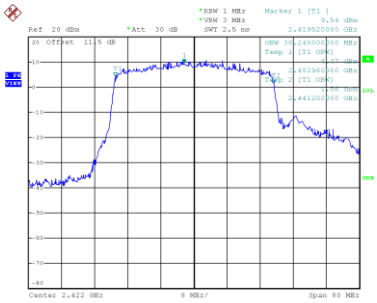
Date: 29.AUG.2024 19:12:53

CH09

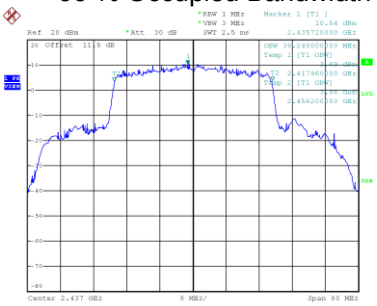


Date: 29.AUG.2024 19:14:37

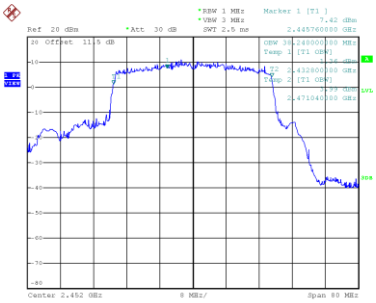
99 % Occupied Bandwidth



Date: 29.AUG.2024 19:11:22



Date: 29.AUG.2024 19:13:03



Date: 29.AUG.2024 19:14:46

APPENDIX E MAXIMUM OUTPUT POWER

Test Mode	IEEE 802.11b_Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.45	0.00	15.45	30.00	1.0000	Complies
06	2437	15.52	0.00	15.52	30.00	1.0000	Complies
11	2462	15.44	0.00	15.44	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Ant. 2	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.74	0.00	15.74	30.00	1.0000	Complies
06	2437	16.17	0.00	16.17	30.00	1.0000	Complies
11	2462	16.04	0.00	16.04	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Total	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.61	30.00	1.0000	Complies
06	2437	18.87	30.00	1.0000	Complies
11	2462	18.76	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.18	0.18	14.36	30.00	1.0000	Complies
06	2437	14.22	0.18	14.40	30.00	1.0000	Complies
11	2462	14.19	0.18	14.37	30.00	1.0000	Complies

Test Mode	EEE 802.11g_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.62	0.18	14.80	30.00	1.0000	Complies
06	2437	15.07	0.18	15.25	30.00	1.0000	Complies
11	2462	15.01	0.18	15.19	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Total	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.60	30.00	1.0000	Complies
06	2437	17.86	30.00	1.0000	Complies
11	2462	17.81	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20) _Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.07	0.19	14.26	30.00	1.0000	Complies
06	2437	14.08	0.19	14.27	30.00	1.0000	Complies
11	2462	14.02	0.19	14.21	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20) _Ant. 2	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.58	0.19	14.77	30.00	1.0000	Complies
06	2437	15.02	0.19	15.21	30.00	1.0000	Complies
11	2462	14.94	0.19	15.13	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20) _Total	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.54	30.00	1.0000	Complies
06	2437	17.78	30.00	1.0000	Complies
11	2462	17.71	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40) _Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.79	0.38	15.17	30.00	1.0000	Complies
06	2437	14.77	0.38	15.15	30.00	1.0000	Complies
09	2452	14.78	0.38	15.16	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40) _Ant. 2	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.19	0.38	15.57	30.00	1.0000	Complies
06	2437	15.68	0.38	16.06	30.00	1.0000	Complies
09	2452	15.61	0.38	15.99	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40) _Total	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.39	30.00	1.0000	Complies
06	2437	18.64	30.00	1.0000	Complies
09	2452	18.61	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20) _Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	12.61	0.44	13.05	30.00	1.0000	Complies
06	2437	12.56	0.44	13.00	30.00	1.0000	Complies
11	2462	12.53	0.44	12.97	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20) _Ant. 2	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.16	0.44	13.60	30.00	1.0000	Complies
06	2437	13.54	0.44	13.98	30.00	1.0000	Complies
11	2462	13.53	0.44	13.97	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20) _Total	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.35	30.00	1.0000	Complies
06	2437	16.53	30.00	1.0000	Complies
11	2462	16.51	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40) _Ant. 1	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.71	0.18	13.89	30.00	1.0000	Complies
06	2437	13.67	0.18	13.85	30.00	1.0000	Complies
09	2452	13.64	0.18	13.82	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40) _Ant. 2	Tested Date	2024/8/28

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.13	0.18	14.31	30.00	1.0000	Complies
06	2437	14.58	0.18	14.76	30.00	1.0000	Complies
09	2452	14.55	0.18	14.73	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40) _Total	Tested Date	2024/8/28

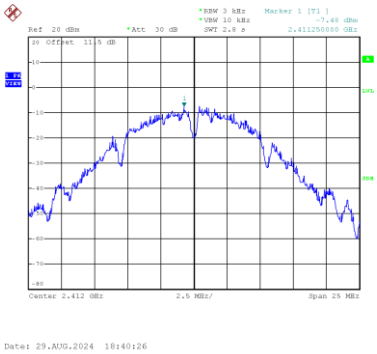
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.12	30.00	1.0000	Complies
06	2437	17.34	30.00	1.0000	Complies
09	2452	17.31	30.00	1.0000	Complies

APPENDIX F POWER SPECTRAL DENSITY

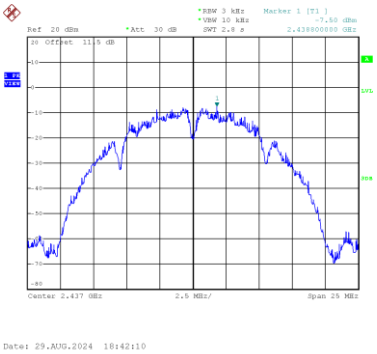
Test Mode	IEEE 802.11b_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.48	5.50	Complies
06	2437	-7.50	5.50	Complies
11	2462	-7.94	5.50	Complies

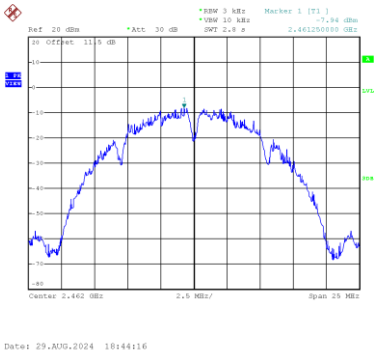
CH01



CH06



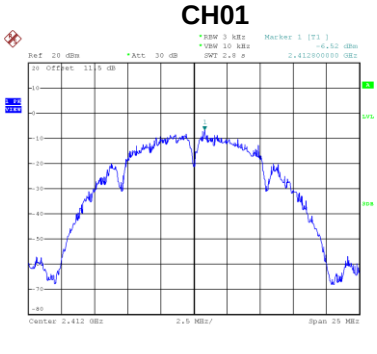
CH11



Test Mode	IEEE 802.11b_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.52	5.50	Complies
06	2437	-6.78	5.50	Complies
11	2462	-6.49	5.50	Complies

CH01



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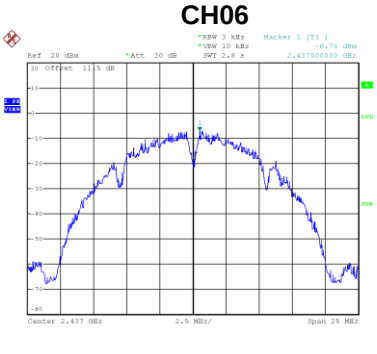

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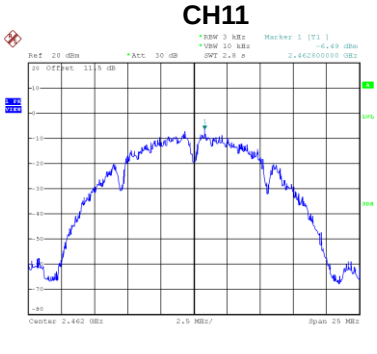


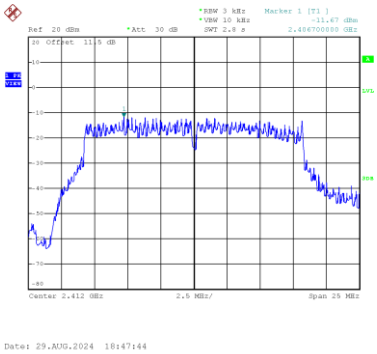
Test Mode	IEEE 802.11b_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-3.96	5.50	Complies
06	2437	-4.11	5.50	Complies
11	2462	-4.14	5.50	Complies

Test Mode	IEEE 802.11g_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-11.67	5.50	Complies
06	2437	-10.76	5.50	Complies
11	2462	-11.34	5.50	Complies

CH01



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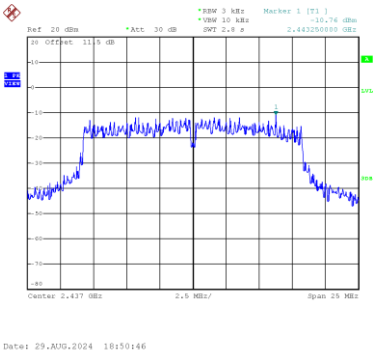

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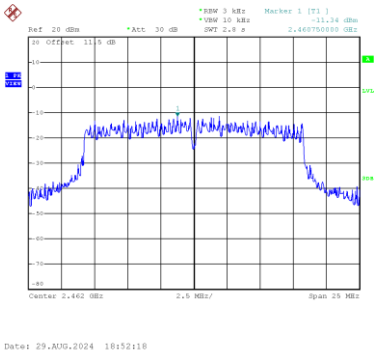
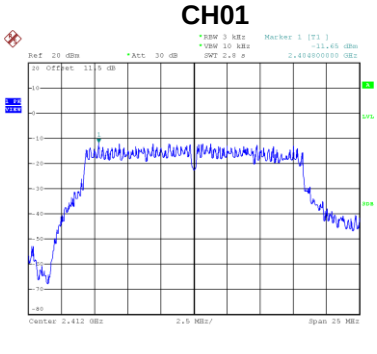


Test Mode	IEEE 802.11g_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-11.65	5.50	Complies
06	2437	-10.44	5.50	Complies
11	2462	-10.28	5.50	Complies

CH01



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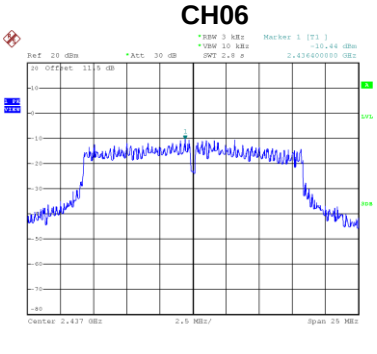

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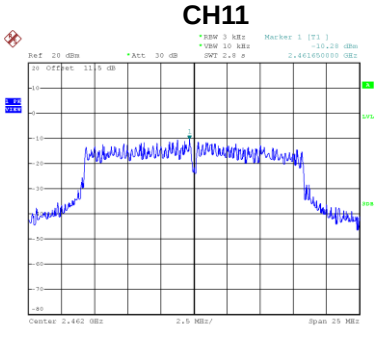


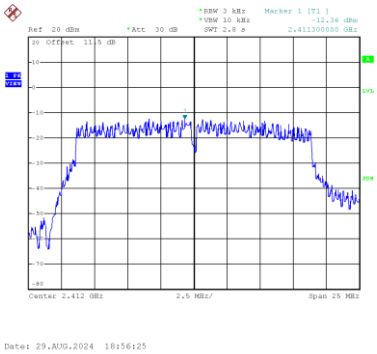
Test Mode	IEEE 802.11g_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.65	5.50	Complies
06	2437	-7.59	5.50	Complies
11	2462	-7.77	5.50	Complies

Test Mode	IEEE 802.11n (HT20)_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-12.36	5.50	Complies
06	2437	-12.31	5.50	Complies
11	2462	-11.87	5.50	Complies

CH01



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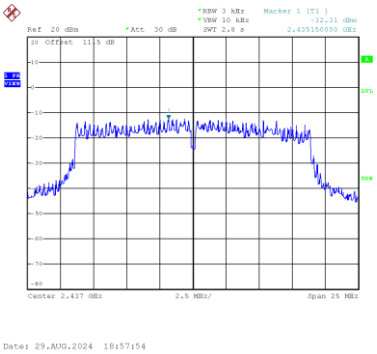

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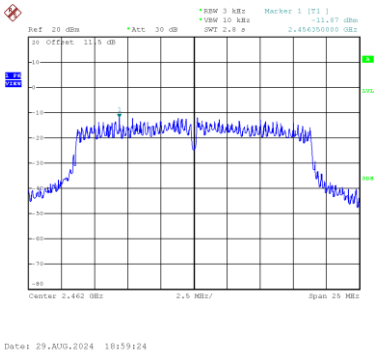
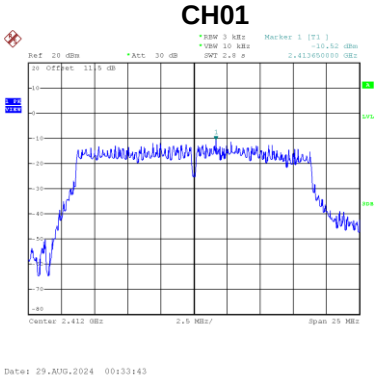


Test Mode	IEEE 802.11n (HT20)_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-10.52	5.50	Complies
06	2437	-10.93	5.50	Complies
11	2462	-10.38	5.50	Complies

CH01



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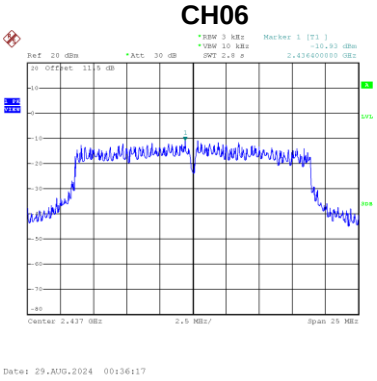

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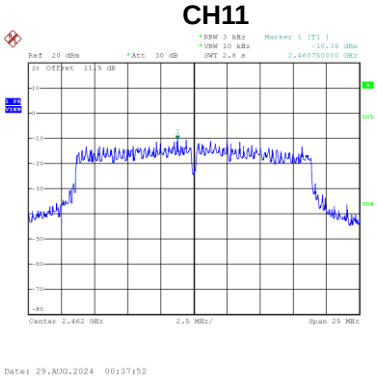

Test Mode	IEEE 802.11n (HT20)_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.33	5.50	Complies
06	2437	-8.56	5.50	Complies
11	2462	-8.05	5.50	Complies