

Project No.: TM-2502000034P
Report No.: TMWK2507002898KR

FCC ID: ZQ6-AP6611S

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Class II Permissive Change

Test Standard	FCC Part 15.247
Product name	Wi-Fi/Bluetooth Module
Brand Name	AMPAK Technology Inc.
Model No.	AP6611S, AP12611_M2, WNFS-163AXI(BT)
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10-2020+Cor.1-2023 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Approved by:



Shawn Wu
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 01, 2025	Initial Issue	ALL	Allison Chen



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	AMPAK Technology Inc. 3F, No. 1, Jen Ai Road, Hsinchu Industrial Park,, Hsinchu, N/A 30352 Taiwan
Manufacturer	BILLIONTON SYSTEMS INC. No. 21, Sui-Lih Rd., Hsin-Chu City 300, Taiwan (R.O.C.)
Equipment	Wi-Fi/Bluetooth Module
Model Name	AP6611S, AP12611_M2, WNFS-163AXI(BT)
Model Discrepancy	Difference of the three model numbers (list on this report) is just for marketing purpose only.
Received Date	February 06, 2025
Date of Test	June 13 ~ July 03, 2025
Power Supply	Power from Host system.
HW Version	VERSION 18.42.31 (WLTEST) (g23d648fd) FWID 01-f88f8b64
SW Version	DOS [ver 6.1.7601]
Class II Permissive Change	1. The subject approved module is integrated in new host. (Product: Tablet PC, Model: AIM-77S) 2. Evaluation has been done to ensure compliance of EMC and RF exposure. 3. The hardware design is remained unchanged in this permissive change application. 4. The RF parameters of this transmitter that may affect compliance are remained unchanged in this permissive change application. 5. The security mechanism according to section II of KDB 594280 D02 is remained unchanged as it reported to the FCC at the initial certification. 6. WLAN transmitter only supports with passive scanning in UNII-2A & UNII-2C bands without radar detection, hence radar detection is exempted from evaluation in this permissive change. 7. Adding new antenna(s) with lower gain compared to the original grant condition. The antenna type is different from the original approval. Please refer to the antenna report for detail.



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Host information	Product / Model: Tablet PC / AIM-77S Power supply 1. Power from Adapter. FSP / FSP045-A2BR3 I/P: 100-240Vac, 1.5A, 50-60Hz O/P: 5.0Vdc, 3.0A, 15W or 9.0Vdc, 3.0A, 27W or 12.0Vdc, 3.0A, 36W or 15.0Vdc, 3.0A, 45W or 20.0Vdc, 2.25A, 45.0W 2. Power from Rechargeable Li-ion Polymer Battery. ADVANTECH / AIM-77-BAT-10 Rating: 7.7Vdc, 34.19Wh
-------------------------	--

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.
4. Disclaimer: Variant information between/among model numbers is provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20/ac VHT20: 2412MHz ~ 2462MHz 802.11ax HE20: 2412MHz ~ 2462MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT20 mode : OFDM 4. IEEE 802.11ac VHT20 mode : OFDM 5. IEEE 802.11ax HE20 mode : OFDMA
Number of channel	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT20 mode : 11 Channels 4. IEEE 802.11ac VHT20 mode : 11 Channels 5. IEEE 802.11ax HE20 mode : 11 Channels

Remark:

Refer as ANSI C63.10-2020+Cor.1-2023 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☒ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Brand / Model	INPAQ / RFDPA100805EMMB401
Antenna Gain	Gain: 2.80 dBi
Antenna Connector	IPEX

Notes:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.



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1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	±2.21dB
Channel Bandwidth	±2.79dB
RF output power (Power Meter + Power sensor)	±0.24dB
Power Spectral density	±2.74dB
Conducted Bandedge	±2.74dB
Conducted Spurious Emission	±2.74dB
Radiated Emission_9kHz-30MHz	± 3.492 dB
Radiated Emission_30MHz-200MHz	± 3.62 dB
Radiated Emission_200MHz-1GHz	± 3.899 dB
Radiated Emission_1GHz-6GHz	± 5.063 dB
Radiated Emission_6GHz-18GHz	± 5.122 dB
Radiated Emission_18GHz-26GHz	± 3.032 dB
Radiated Emission_26GHz-40GHz	± 3.271 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	David Li	-
Radiation	Tony Chao, Ben Yang	-
RF Conducted	Marco Chan	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309



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1.6 INSTRUMENT CALIBRATION

Conducted FCC/IC/NCC (All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2024-10-04	2025-10-03
Power Sensor	Anritsu	MA2411B	1911387	2024-08-30	2025-08-29
Power Sensor	Anritsu	MA2411B	1911386	2024-07-19	2025-07-18
Power Meter	Anritsu	ML2496A	2136002	2024-07-19	2025-07-18
DC Blocks	Marvelous Microwave	MVE6411	MVE-001	2024-08-08	2025-08-07
Attenuator	Marvelous Microwave Inc	MVE2213-10	08	2024-11-07	2025-11-06
Software	Radio Test Software Ver. 21				

AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2025-06-02	2026-06-01
LISN	TESEQ	LN2-16N	22012	2025-02-23	2026-02-22
Cable	Woken	RFC-SMA-100-NMR-084SFL402	MFR-2Y194	2025-03-21	2026-03-20
Software	e3 V6-110812				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.



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966A_Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2025-03-05	2026-03-04
Active Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB1	A052609&533	2025-01-03	2026-01-02
Preamplifier	EMEC	EM330	060609	2025-02-20	2026-02-19
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-08-07	2025-08-06
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2024-12-20	2025-12-19
Preamplifier	HP	8449B	3008A00965	2024-12-18	2025-12-17
Cable	EMCI	EMC101G	221012+230205+250412	2025-04-24	2026-04-23
Attenuator	Mini-Circuits	BW-S9W5	BWS9W5-09-966A-01	2025-02-06	2026-02-05
Site Validation	CCS	966A	N/A	2024-08-03	2025-08-02
High Pass Filters	Titan Microwave	T04H30001800070S01	22011402-4	2025-06-03	2026-06-02
Pre-Amplifier	EMCI	EMC184045SE	980860	2024-12-02	2025-12-01
Horn Antenna	SCHWARZBECK	BBHA9170	1047	2024-12-06	2025-12-05
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

Support Unit List (RSE)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	Type-C Cable	Xiaomi	SJX10ZM	N/A	N/A

Support Unit List (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(B)	Lenovo	T470	N/A	N/A
2	USB A to Type c	Xiaomi	SJX10ZM	N/A	N/A

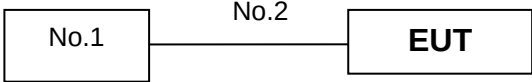
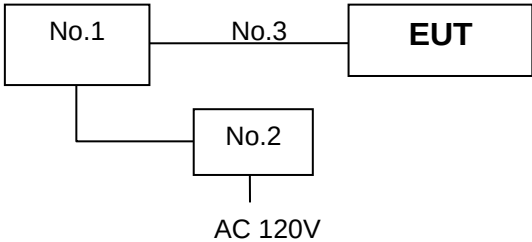
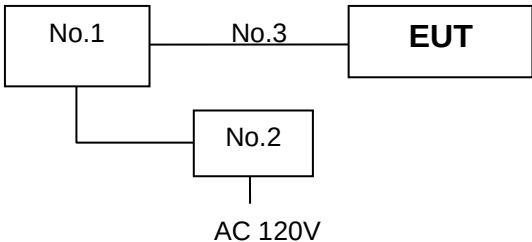
Support Unit List (Conduction)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(B)	Lenovo	T470	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	USB A to Type c	Xiaomi	SJX10ZM	N/A	N/A



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1.8 TEST SETUP DIAGRAM(S)

Conducted	Conduction
	
RSE	
	-

1.9 TEST PROGRAM

This EUT uses "command prompt " and setup command to set the frequency, modulation, and power to allow the sample to continuously transmit (including frequency hopping mode).

1.10 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10-2020+Cor.1-2023, FCC Part 2, FCC Part 15.247, KDB 558074.



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2. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(b)(3)	4.2	Output Power Measurement	Pass
15.247(d) 15.205, 15.209	4.3	Radiation Band Edge	Pass
15.247(d) 15.205, 15.209	4.3	Radiation Spurious Emission	Pass



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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11ax HE20 mode :MCS0
Test Channel Frequencies	IEEE 802.11b mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11g mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11ax HE20 mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11ax HE20 mode : 1T1R

Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conduction Emission	
Test Condition	AC Power line conduction emission for line and neutral
Power supply Mode	Mode 1: EUT Power by Host system
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Host System
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☒ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Host System
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report
3. AC power line conducted emission is performed the EUT transmit at the highest output power channel as worse case.



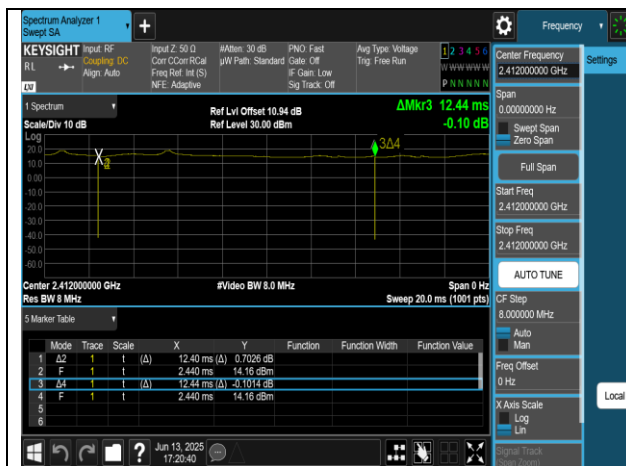
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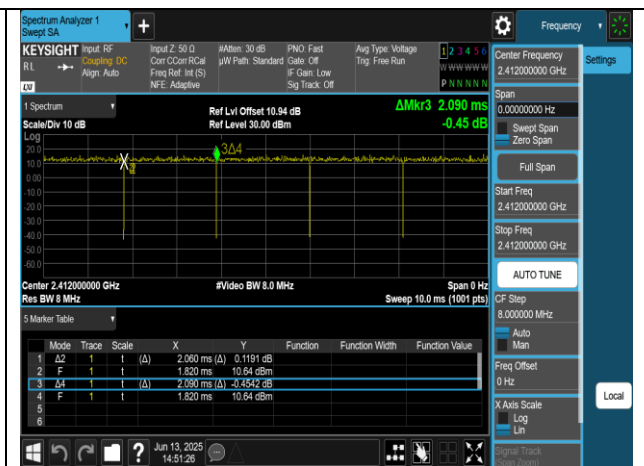
3.3 EUT DUTY CYCLE

Temperature:	23.1~23.3°C	Test Date:	June 13~16, 2025
Humidity:	56~62% RH	Tested by:	Marco Chan

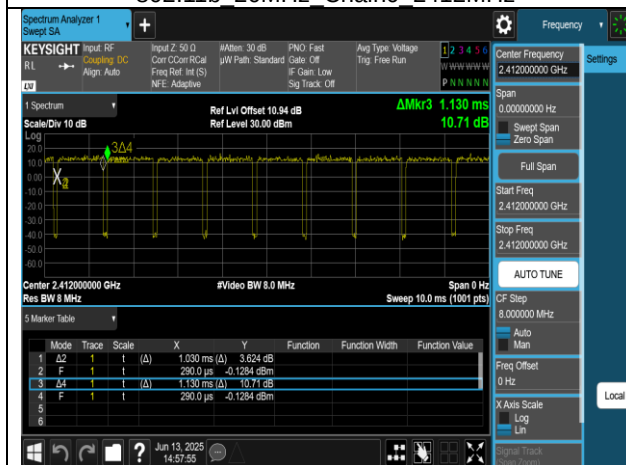
Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b		99.68	0.01	0.08	0.01
802.11g		98.56	0.06	0.49	0.01
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	91.15	0.40	0.97	1.00



802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



802.11ax 20MHz Chain0 2412MHz

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.2.1 Test Limit

According to §15.207(a)(2),

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

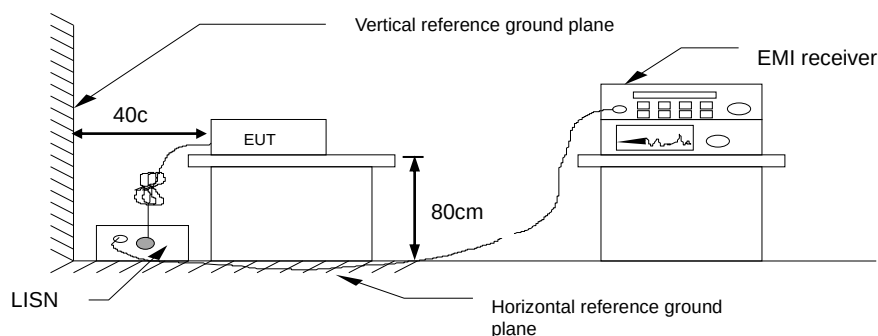
* Decreases with the logarithm of the frequency.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10-2020+Cor.1-2023,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.2.3 Test Setup



4.2.4 Test Result

Pass.

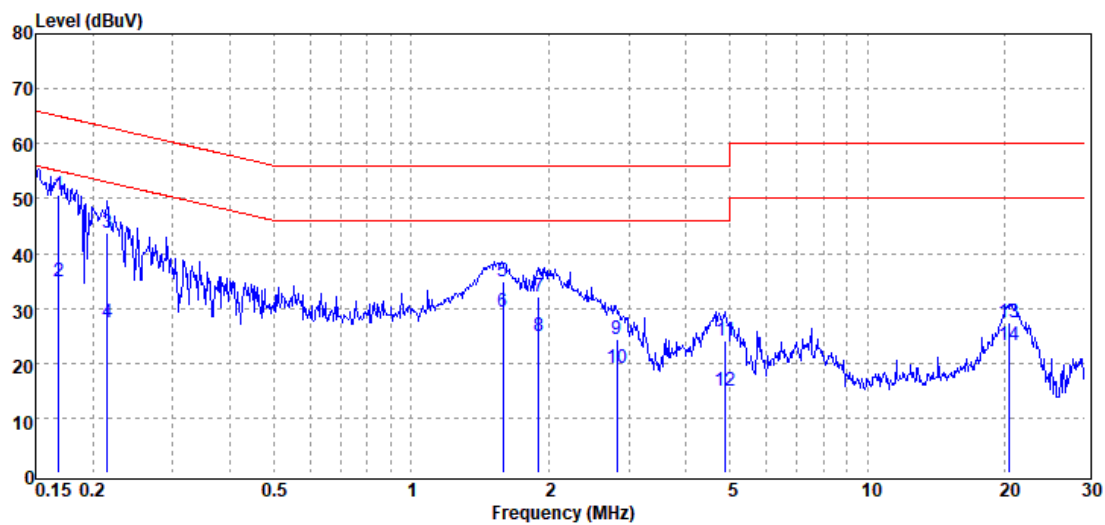


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Test Data

Project No	: TM-2502000034P	Test Date	: 2025-07-03
Operation Mode	: 2.4G	Temp./Humi.	: 23.4°C / 54%
Test Chamber	: Conduction	Engineer	: David.Li
Probe	: LINE	Test Voltage	: AC 120V/60Hz
Note	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.169	QP	50.51	0.09	50.60	65.02	-14.42
0.169	Average	34.80	0.09	34.89	55.02	-20.13
0.216	QP	43.74	0.08	43.82	62.98	-19.16
0.216	Average	27.30	0.08	27.38	52.98	-25.60
1.586	QP	34.66	0.10	34.76	56.00	-21.24
1.586	Average	29.28	0.10	29.38	46.00	-16.62
1.900	QP	31.97	0.11	32.08	56.00	-23.92
1.900	Average	24.74	0.11	24.85	46.00	-21.15
2.819	QP	24.35	0.12	24.47	56.00	-31.53
2.819	Average	18.92	0.12	19.04	46.00	-26.96
4.875	QP	24.03	0.16	24.19	56.00	-31.81
4.875	Average	14.74	0.16	14.90	46.00	-31.10
20.430	QP	26.97	0.35	27.32	60.00	-32.68
20.430	Average	22.82	0.35	23.17	50.00	-26.83

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit



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Operation Mode : 2.4G

Test Chamber : Conduction

Probe : NEUTRAL

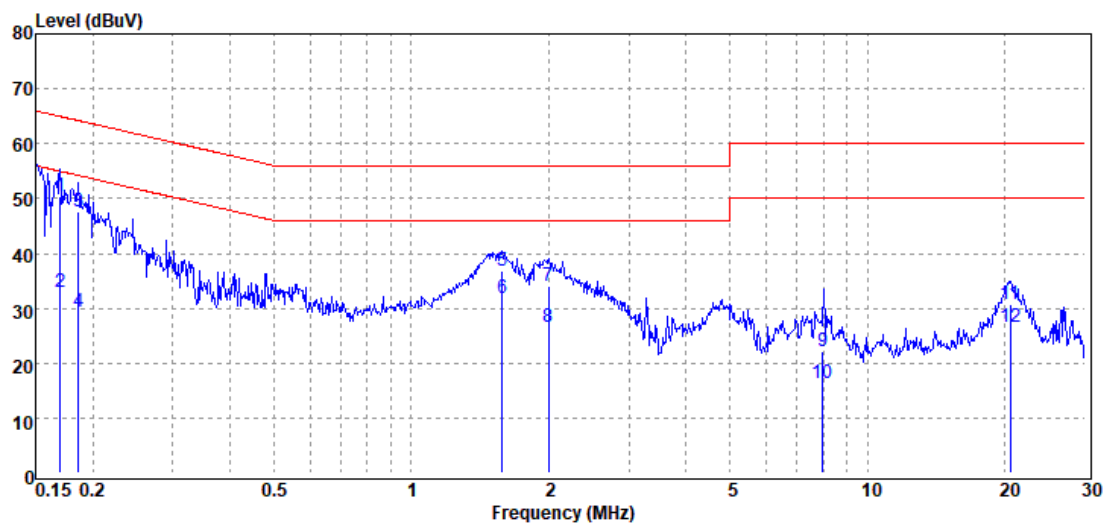
Note :

Test Date : 2025-07-03

Temp./Humi. : 23.4°C / 54%

Engineer : David.Li

Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.170	QP	50.24	0.10	50.34	64.97	-14.63
0.170	Average	32.80	0.10	32.90	54.97	-22.07
0.186	QP	47.46	0.10	47.56	64.20	-16.64
0.186	Average	29.31	0.10	29.41	54.20	-24.79
1.581	QP	36.57	0.12	36.69	56.00	-19.31
1.581	Average	31.74	0.12	31.86	46.00	-14.14
2.001	QP	33.95	0.13	34.08	56.00	-21.92
2.001	Average	26.33	0.13	26.46	46.00	-19.54
7.989	QP	21.82	0.23	22.05	60.00	-37.95
7.989	Average	16.18	0.23	16.41	50.00	-33.59
20.594	QP	30.46	0.36	30.82	60.00	-29.18
20.594	Average	26.16	0.36	26.52	50.00	-23.48

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

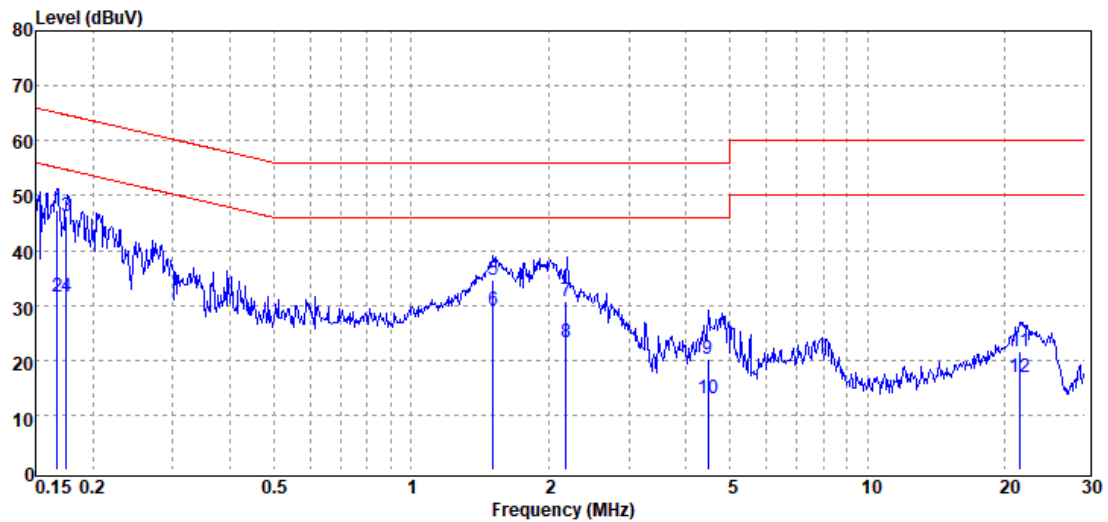


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Project No : TM-2502000034P
Operation Mode : 2.4G
Test Chamber : Conduction
Probe : LINE
Note :

Test Date : 2025-07-03
Temp./Humi. : 23.4°C / 54%
Engineer : David.Li
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.167	QP	47.30	0.09	47.39	65.10	-17.71
0.167	Average	31.50	0.09	31.59	55.10	-23.51
0.175	QP	46.10	0.08	46.18	64.70	-18.52
0.175	Average	31.53	0.08	31.61	54.70	-23.09
1.509	QP	34.57	0.10	34.67	56.00	-21.33
1.509	Average	29.06	0.10	29.16	46.00	-16.84
2.180	QP	30.61	0.11	30.72	56.00	-25.28
2.180	Average	23.15	0.11	23.26	46.00	-22.74
4.470	QP	20.20	0.15	20.35	56.00	-35.65
4.470	Average	12.91	0.15	13.06	46.00	-32.94
21.620	QP	21.33	0.36	21.69	60.00	-38.31
21.620	Average	16.50	0.36	16.86	50.00	-33.14

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

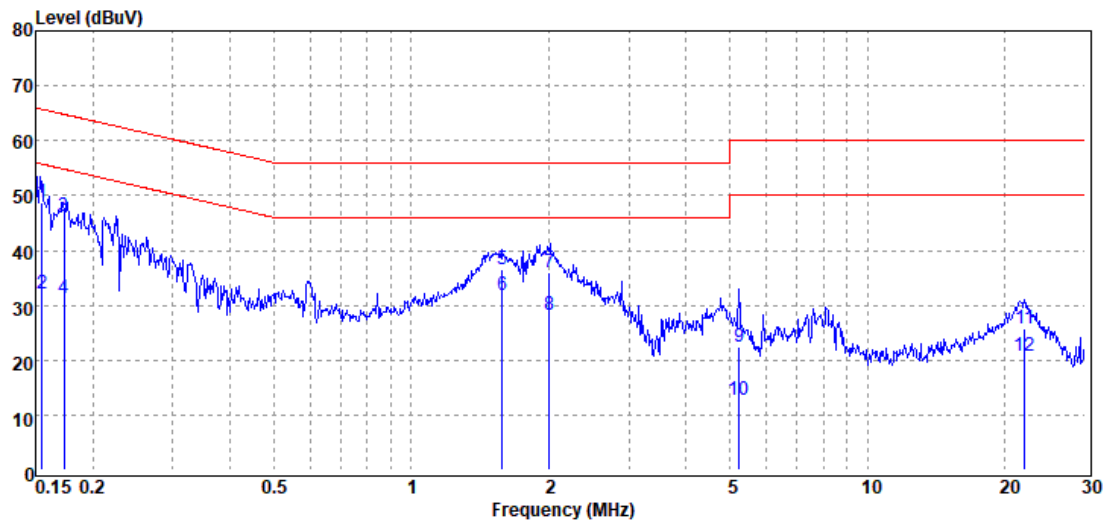


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Project No : TM-2502000034P
Operation Mode : 2.4G
Test Chamber : Conduction
Probe : NEUTRAL
Note :

Test Date : 2025-07-03
Temp./Humi. : 23.4°C / 54%
Engineer : David.Li
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	QP	48.66	0.10	48.76	65.74	-16.98
0.155	Average	32.12	0.10	32.22	55.74	-23.52
0.173	QP	46.21	0.10	46.31	64.82	-18.51
0.173	Average	31.21	0.10	31.31	54.82	-23.51
1.580	QP	36.40	0.12	36.52	56.00	-19.48
1.580	Average	31.67	0.12	31.79	46.00	-14.21
2.007	QP	35.82	0.13	35.95	56.00	-20.05
2.007	Average	28.01	0.13	28.14	46.00	-17.86
5.239	QP	22.11	0.20	22.31	60.00	-37.69
5.239	Average	12.48	0.20	12.68	50.00	-37.32
22.085	QP	25.33	0.36	25.69	60.00	-34.31
22.085	Average	20.30	0.36	20.66	50.00	-29.34

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

4.2 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b),

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] ☐ Point-to-point operation :
-------	---

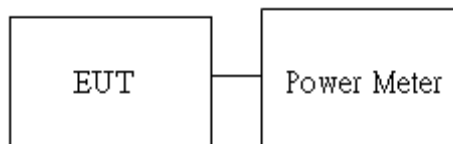
Average output power : For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup





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4.3.4 Test Result

Temperature:	23.1~23.3°C	Test Date:	June 13~16, 2025
Humidity:	56~62% RH	Tested by:	Marco Chan

Peak & Average output power :

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	77	168.27	22.26	30.00	PASS
6	2437	1	87	333.43	25.23	30.00	PASS
11	2462	1	77	173.38	22.39	30.00	PASS
802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	77	84.02	19.24	30.00	PASS
6	2437	1	87	180.46	22.56	30.00	PASS
11	2462	1	77	87.98	19.44	30.00	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	50	419.76	26.23	30.00	PASS
6	2437	6	77	503.50	27.02	30.00	PASS
11	2462	6	50	413.05	26.16	30.00	PASS
802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	50	27.75	14.43	30.00	PASS
6	2437	6	77	117.84	20.71	30.00	PASS
11	2462	6	50	27.82	14.44	30.00	PASS



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802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	45	411.15	26.14	30.00	PASS
6	2437	MCS0	full	76	504.66	27.03	30.00	PASS
11	2462	MCS0	full	45	331.89	25.21	30.00	PASS
802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	45	21.79	13.38	30.00	PASS
6	2437	MCS0	full	76	113.30	20.54	30.00	PASS
11	2462	MCS0	full	45	22.50	13.52	30.00	PASS



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4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz).

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

5. The SA setting following :

(1) Below 30MHz :

(1.1) 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO

(1.2) 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO

(2) 30MHz to 1GHz : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto,
Detector = Peak, Trace = Max hold.

(3) Above 1GHz :

(3.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto,
Detector = Peak, Trace = Max hold.

(3.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle $\geq 98\%$, VBW=10Hz.

·If Duty Cycle $< 98\%$, VBW=1/T.

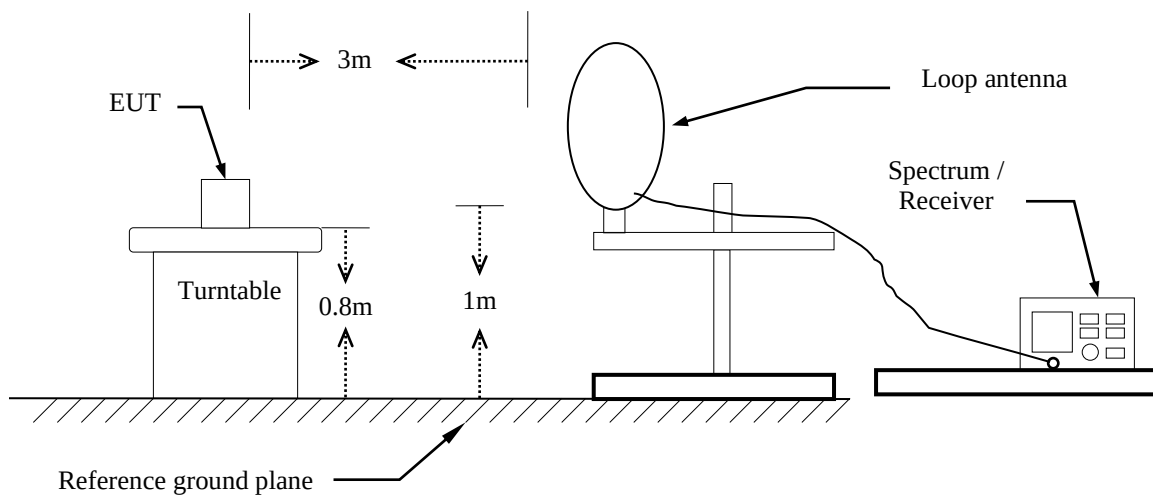
6. Data result :

Actual FS=Spectrum Reading Level + Factor

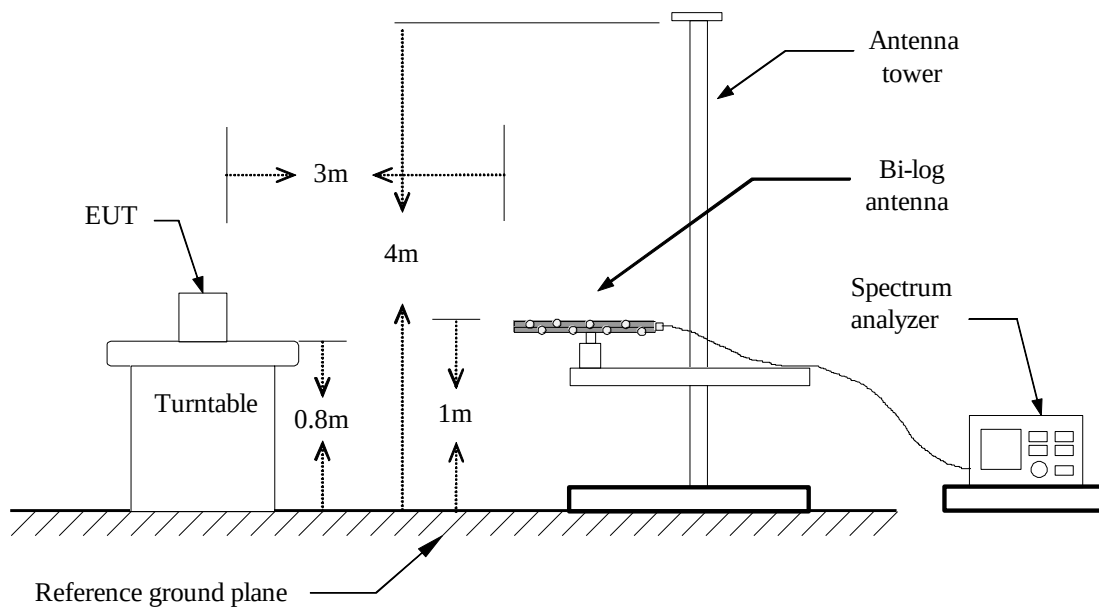
Margin=Actual FS- Limit

4.3.3 Test Setup

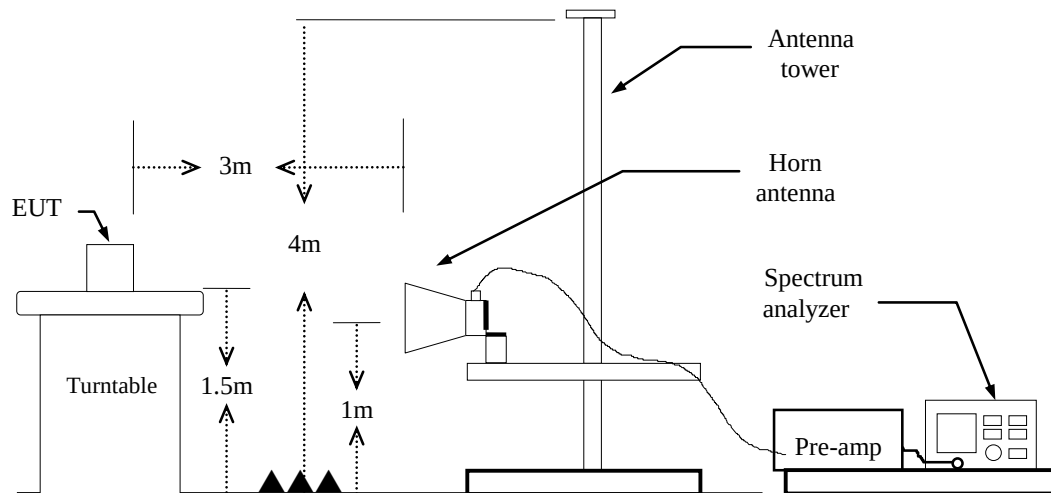
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz





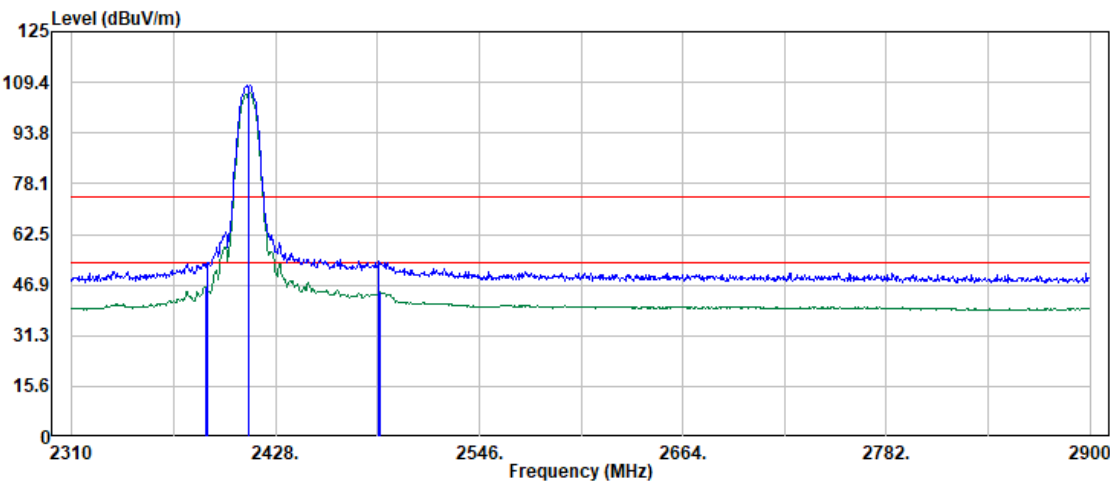
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4.3.4 Test Result

Band Edge Test Data

Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11b	Temp./Humi.	: 25.3/54
Frequency	: 2412 MHz	Antenna Pol.	: Vertical
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



Trace: 1						
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2387.93	40.07	6.31	46.38	54.00	-7.62	Average
2388.93	47.64	6.32	53.96	74.00	-20.04	Peak
2412.00	102.04	6.40	108.44	--	--	Peak
2412.00	99.65	6.40	106.05	--	--	Average
2487.85	47.41	6.81	54.22	74.00	-19.78	Peak
2488.35	37.91	6.81	44.72	54.00	-9.28	Average

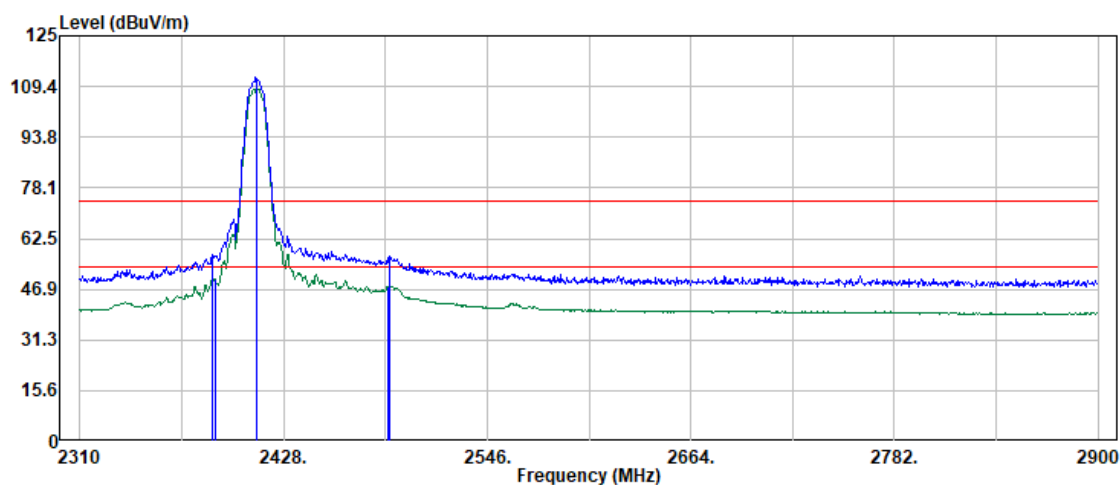


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Project No : TM-2502000034P
Operation Band : 802.11b
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting : 77

Test Date : 2025-06-21
Temp./Humi. : 25.3/54
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



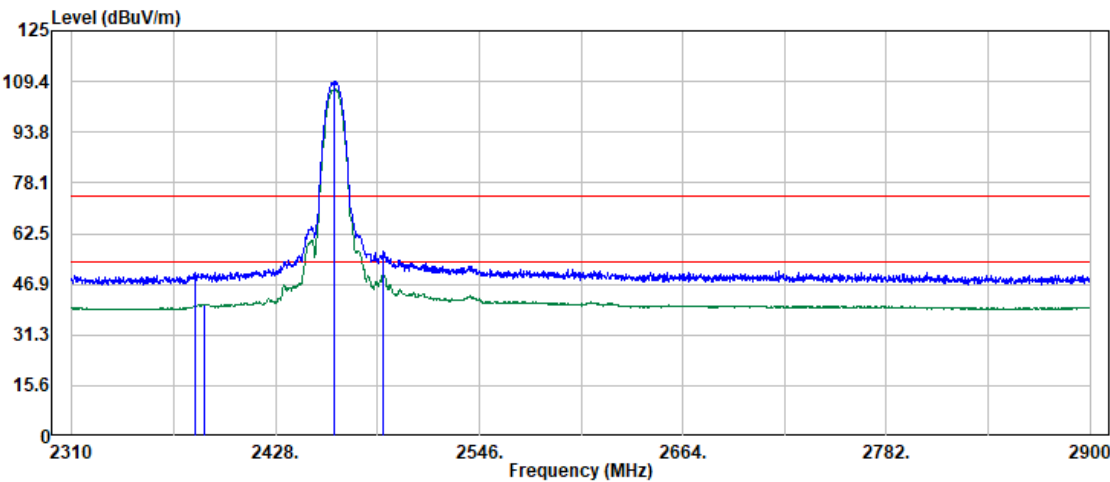
Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2386.44	51.14	6.29	57.43	74.00	-16.57	Peak
2388.43	43.60	6.31	49.91	54.00	-4.09	Average
2412.00	105.74	6.40	112.14	--	--	Peak
2412.00	102.29	6.40	108.69	--	--	Average
2488.35	41.06	6.81	47.87	54.00	-6.13	Average
2489.35	50.29	6.81	57.10	74.00	-16.90	Peak



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11b	Temp./Humi.	: 25.3/54
Frequency	: 2462 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2381.41	44.34	6.27	50.61	74.00	-23.39	Peak
2386.40	34.46	6.29	40.75	54.00	-13.25	Average
2462.00	102.76	6.54	109.30	--	--	Peak
2462.00	100.33	6.54	106.87	--	--	Average
2490.52	43.39	6.82	50.21	54.00	-3.79	Average
2490.77	50.09	6.82	56.91	74.00	-17.09	Peak

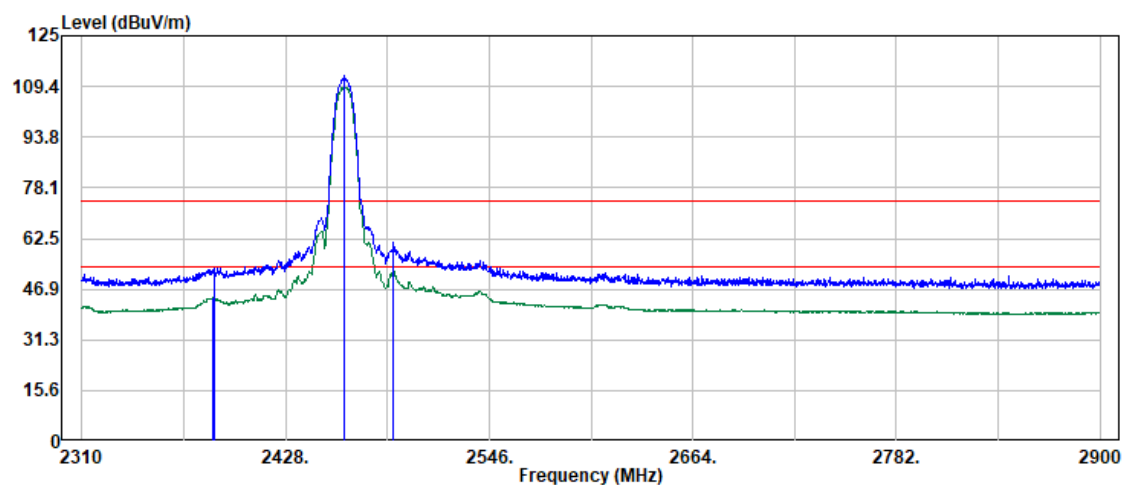


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Project No : TM-2502000034P
Operation Band : 802.11b
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting : 77

Test Date : 2025-06-21
Temp./Humi. : 25.3/54
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1						
Freq	Read		Actual	Limit		Detector
-----	Level	Factor	FS	@3m	Margin	Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2385.65	37.82	6.29	44.11	54.00	-9.89	Average
2386.40	47.21	6.29	53.50	74.00	-20.50	Peak
2462.00	106.07	6.54	112.61	--	--	Peak
2462.00	102.65	6.54	109.19	--	--	Average
2490.27	54.42	6.82	61.24	74.00	-12.76	Peak
2490.52	46.64	6.82	53.46	54.00	-0.54	Average

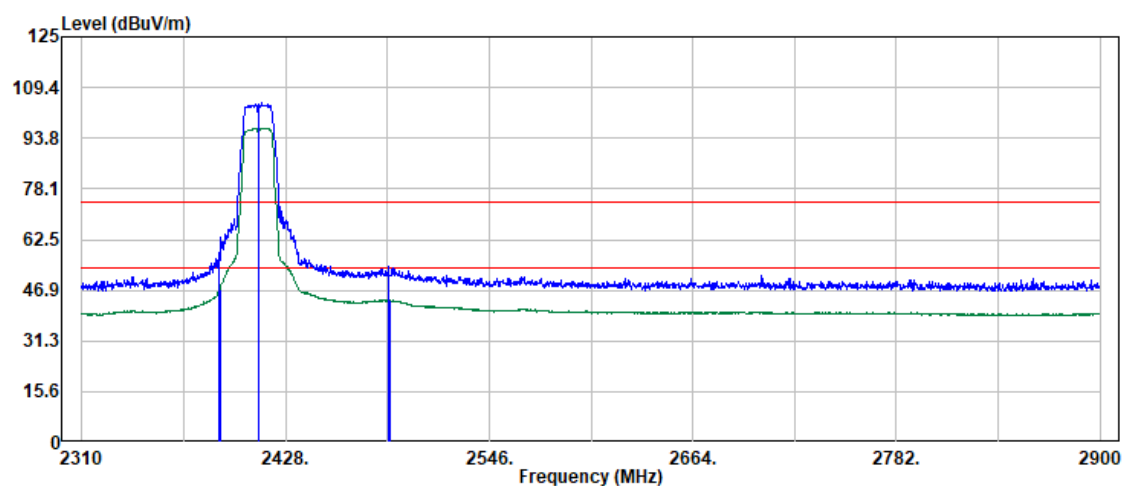


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Project No : TM-2502000034P
Operation Band : 802.11g
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting : 50

Test Date : 2025-06-21
Temp./Humi. : 25.3/54
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



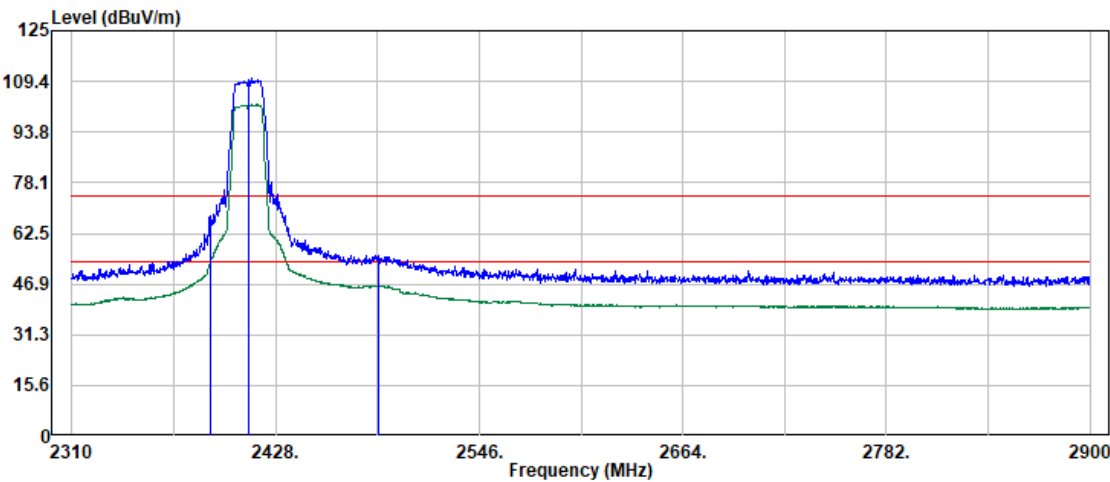
Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.40	52.08	6.32	58.40	74.00	-15.60	Peak
2389.90	40.95	6.32	47.27	54.00	-6.73	Average
2412.00	98.22	6.40	104.62	--	--	Peak
2412.00	90.28	6.40	96.68	--	--	Average
2487.52	47.63	6.81	54.44	74.00	-19.56	Peak
2488.77	37.12	6.81	43.93	54.00	-10.07	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11g	Temp./Humi.	: 25.3/54
Frequency	: 2412 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



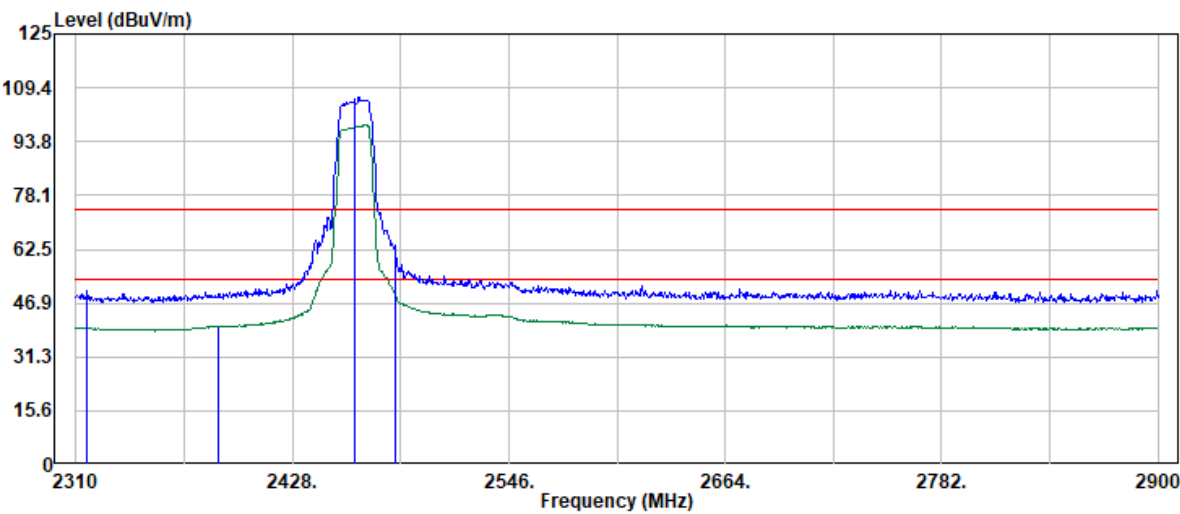
Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.90	61.49	6.32	67.81	74.00	-6.19	Peak
2389.90	46.60	6.32	52.92	54.00	-1.08	Average
2412.00	104.11	6.40	110.51	--	--	Peak
2412.00	95.78	6.40	102.18	--	--	Average
2487.28	49.00	6.80	55.80	74.00	-18.20	Peak
2487.77	39.71	6.81	46.52	54.00	-7.48	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11g	Temp./Humi.	: 25.3/54
Frequency	: 2462 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



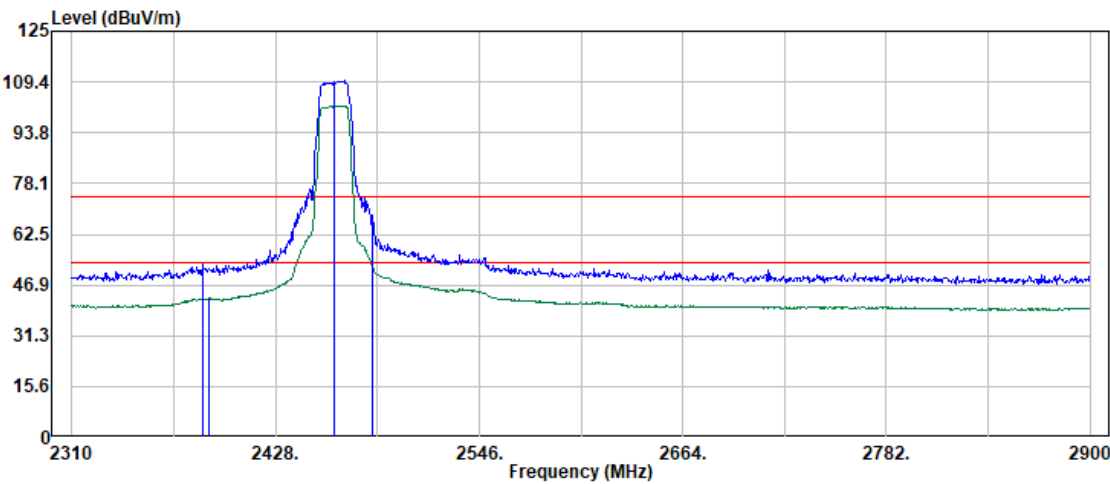
Trace: 1						
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2316.00	44.29	6.32	50.61	74.00	-23.39	Peak
2387.93	33.96	6.31	40.27	54.00	-13.73	Average
2462.00	100.07	6.54	106.61	--	--	Peak
2462.00	91.92	6.54	98.46	--	--	Average
2483.85	56.82	6.77	63.59	74.00	-10.41	Peak
2483.85	42.66	6.77	49.43	54.00	-4.57	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11g	Temp./Humi.	: 25.3/54
Frequency	: 2462 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



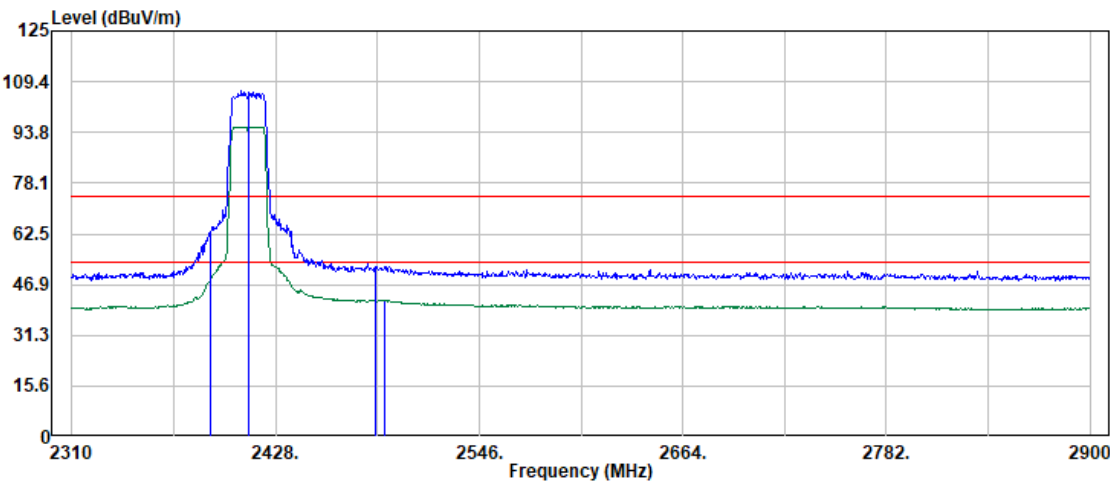
Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	Level		FS	@3m		Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2385.44	46.80	6.29	53.09	74.00	-20.91	Peak
2389.43	36.42	6.32	42.74	54.00	-11.26	Average
2462.00	103.17	6.54	109.71	--	--	Peak
2462.00	95.50	6.54	102.04	--	--	Average
2483.85	46.19	6.77	52.96	54.00	-1.04	Average
2484.35	61.85	6.76	68.61	74.00	-5.39	Peak



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11ax20	Temp./Humi.	: 25.3/54
Frequency	: 2412 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 45		



Trace: 1

Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.93	56.85	6.32	63.17	74.00	-10.83	Peak
2389.93	41.76	6.32	48.08	54.00	-5.92	Average
2412.00	99.99	6.40	106.39	--	--	Peak
2412.00	89.07	6.40	95.47	--	--	Average
2486.35	45.69	6.79	52.48	74.00	-21.52	Peak
2490.85	35.38	6.82	42.20	54.00	-11.80	Average

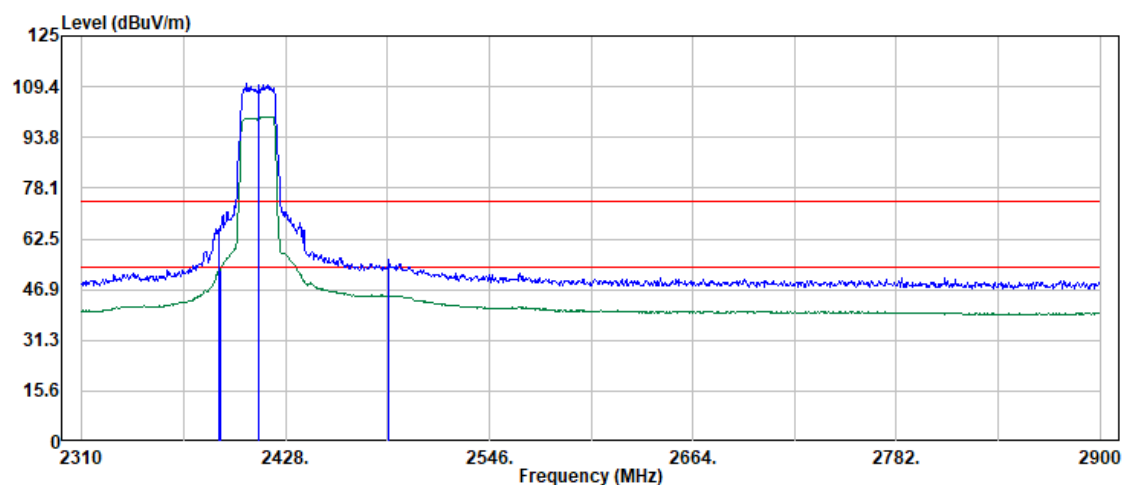


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Project No : TM-2502000034P
Operation Band : 802.11ax20
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting : 45

Test Date : 2025-06-21
Temp./Humi. : 25.3/54
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.43	59.18	6.32	65.50	74.00	-8.50	Peak
2389.93	46.71	6.32	53.03	54.00	-0.97	Average
2412.00	104.01	6.40	110.41	--	--	Peak
2412.00	93.58	6.40	99.98	--	--	Average
2487.85	49.25	6.81	56.06	74.00	-17.94	Peak
2487.85	38.26	6.81	45.07	54.00	-8.93	Average

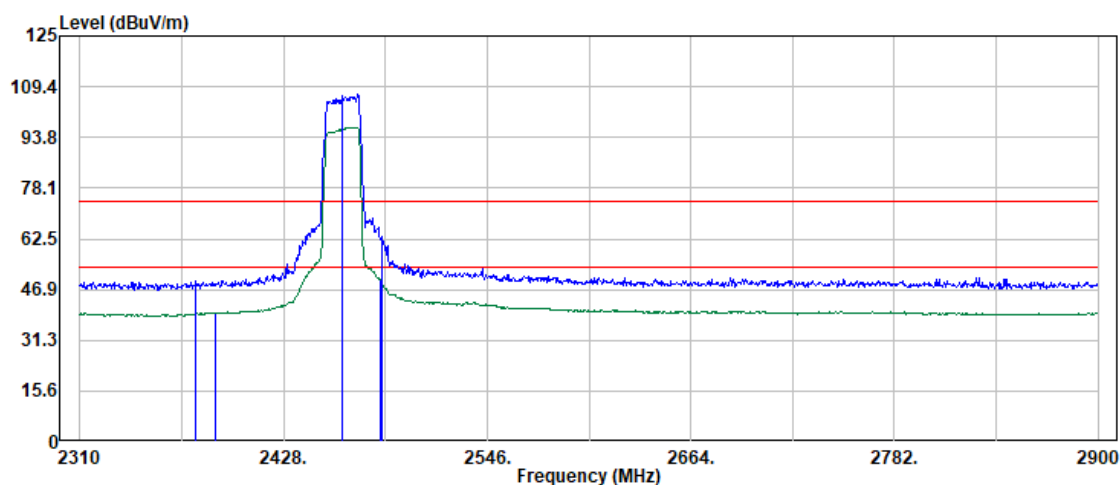


Project No.: TM-2502000034P
Report No.: TMWK2507002898KR

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Project No : TM-2502000034P
Operation Band : 802.11ax20
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting : 45

Test Date : 2025-06-21
Temp./Humi. : 25.3/54
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



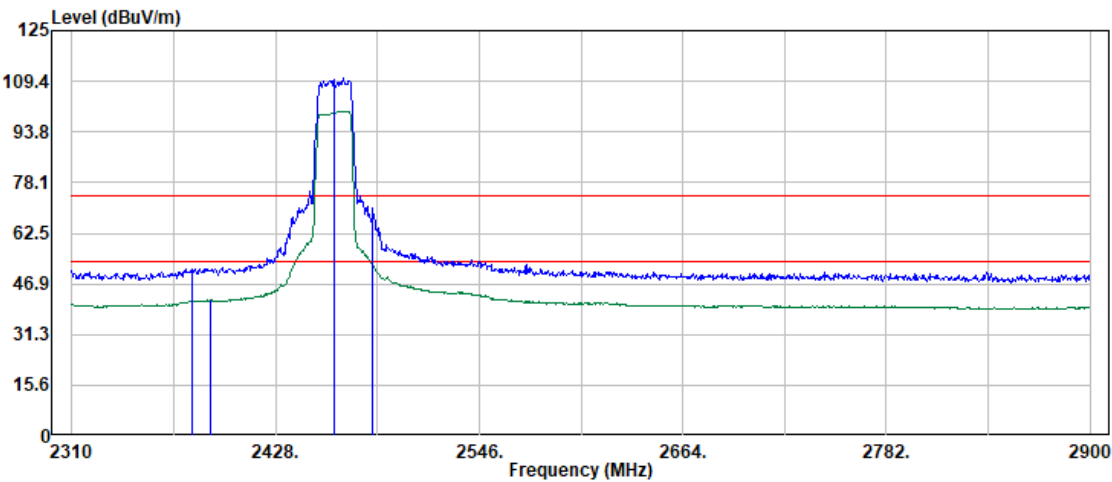
Trace: 1						
Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	Level		FS	@3m		Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2377.44	43.09	6.24	49.33	74.00	-24.67	Peak
2388.93	33.48	6.32	39.80	54.00	-14.20	Average
2462.00	100.57	6.54	107.11	--	--	Peak
2462.00	90.31	6.54	96.85	--	--	Average
2483.85	43.12	6.77	49.89	54.00	-4.11	Average
2484.85	56.27	6.77	63.04	74.00	-10.96	Peak



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Project No	: TM-2502000034P	Test Date	: 2025-06-21
Operation Band	: 802.11ax20	Temp./Humi.	: 25.3/54
Frequency	: 2462 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: Bandedge	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 45		



Trace: 1						
Freq	Read		Actual	Limit		Detector
-----	Level	Factor	FS	@3m	Margin	Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2379.44	45.34	6.26	51.60	74.00	-22.40	Peak
2389.93	35.44	6.32	41.76	54.00	-12.24	Average
2462.00	103.62	6.54	110.16	--	--	Peak
2462.00	93.44	6.54	99.98	--	--	Average
2483.85	46.53	6.77	53.30	54.00	-0.70	Average
2484.35	63.41	6.76	70.17	74.00	-3.83	Peak



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TX Test Data

Project No : TM-2502000034P

Operation Band : 802.11b

Frequency : 2462 MHz

Operation Mode : TX

EUT Pol : E2

Setting :

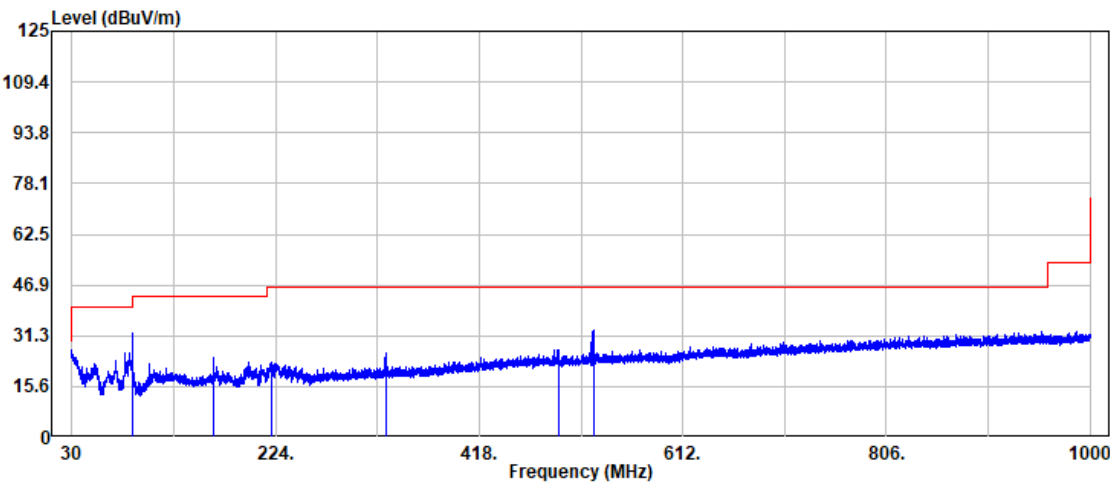
Test Date : 2025-06-27

Temp./Humi. : 25.3/51

Antenna Pol. : VERTICAL

Engineer : Tony.Chao

Test Chamber : 966A



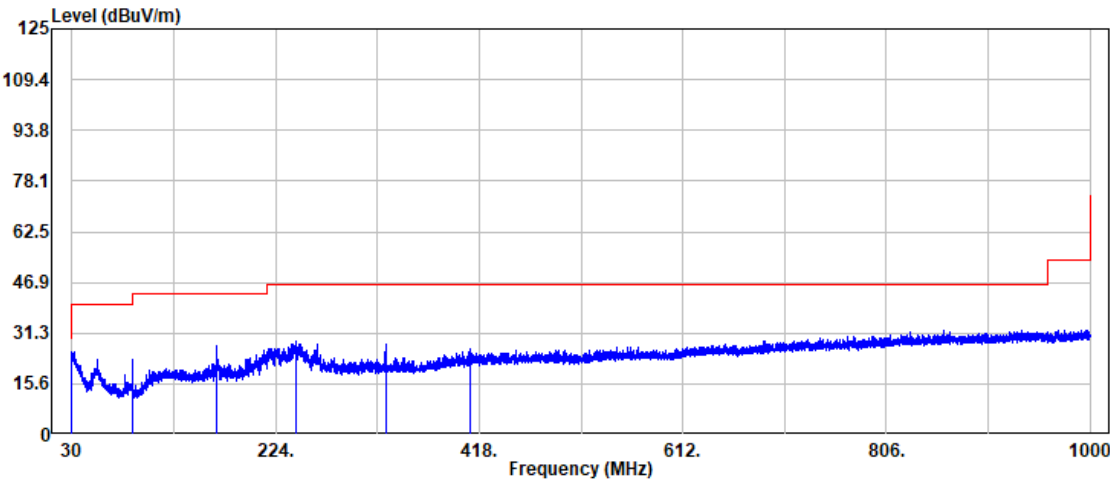
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
88.00	48.27	-16.31	31.96	40.00	-8.04	Peak
164.70	36.07	-11.50	24.57	43.50	-18.93	Peak
220.70	35.85	-12.52	23.33	46.00	-22.67	Peak
329.40	34.59	-8.81	25.78	46.00	-20.22	Peak
494.20	31.42	-4.44	26.98	46.00	-19.02	Peak
526.80	37.28	-4.13	33.15	46.00	-12.85	Peak



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Project No	: TM-2502000034P	Test Date	: 2025-06-27
Operation Band	: 802.11b	Temp./Humi.	: 25.3/51
Frequency	: 2462 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	:		



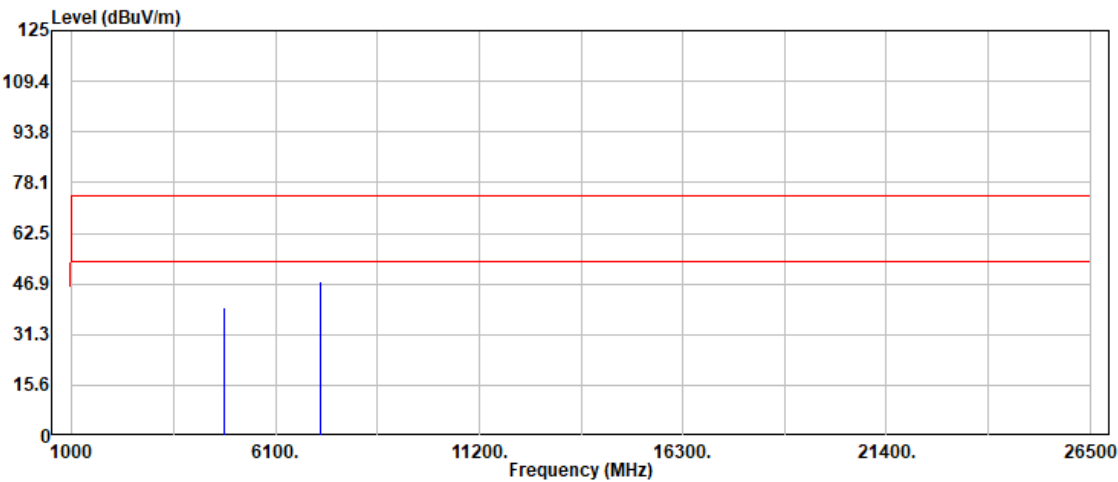
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
30.20	28.43	-2.95	25.48	40.00	-14.52	Peak
88.00	39.37	-16.31	23.06	40.00	-16.94	Peak
168.00	38.87	-11.61	27.26	43.50	-16.24	Peak
244.20	40.36	-11.39	28.97	46.00	-17.03	Peak
329.50	36.52	-8.81	27.71	46.00	-18.29	Peak
409.50	32.82	-6.44	26.38	46.00	-19.62	Peak



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11b	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: Vertical
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



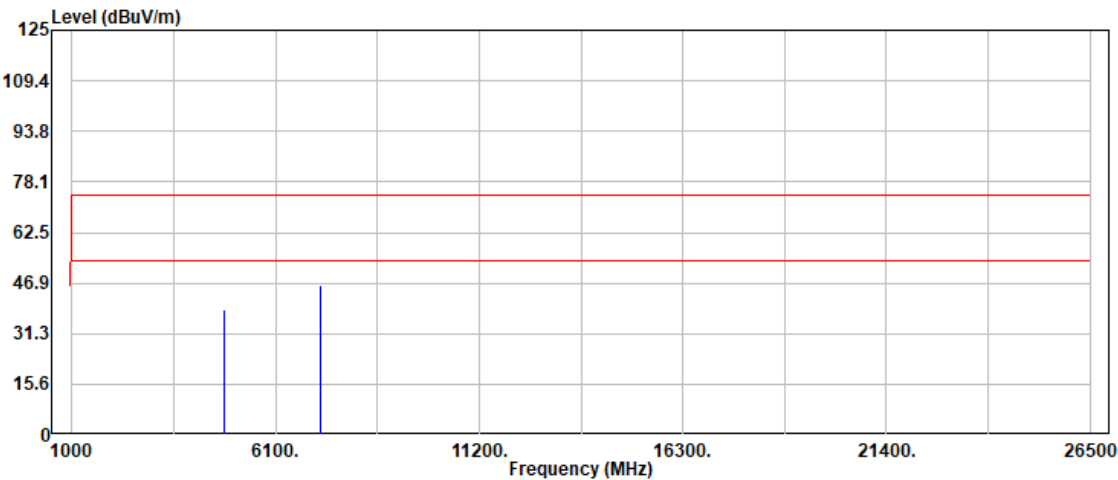
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	37.36	2.39	39.75	74.00	-34.25	Peak
4824.00	32.23	2.39	34.62	54.00	-19.38	Average
7236.00	38.53	9.13	47.66	74.00	-26.34	Peak
7236.00	32.31	9.13	41.44	54.00	-12.56	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11b	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



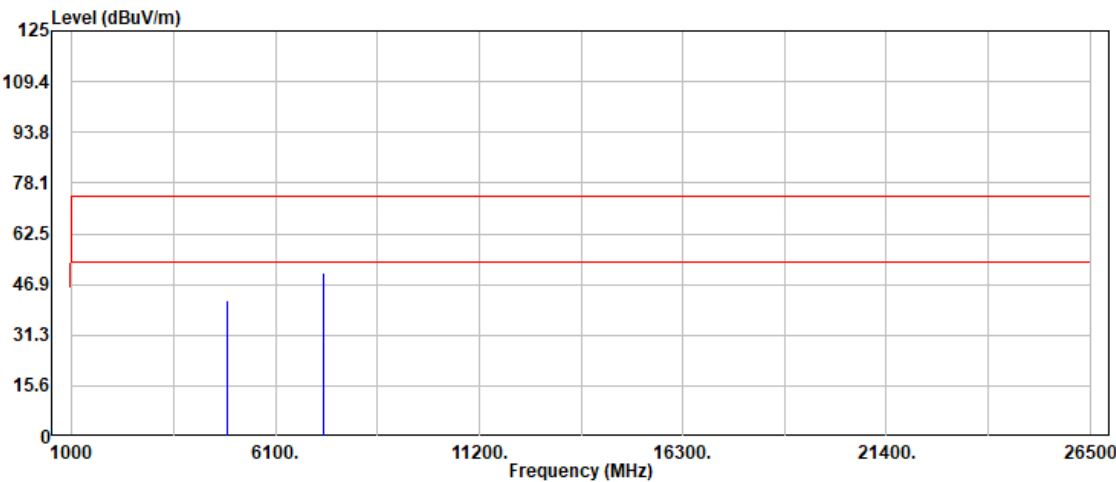
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	36.50	2.39	38.89	74.00	-35.11	Peak
4824.00	32.50	2.39	34.89	54.00	-19.11	Average
7236.00	37.27	9.13	46.40	74.00	-27.60	Peak
7236.00	31.71	9.13	40.84	54.00	-13.16	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11b	Temp./Humi.	: 25/52
Frequency	: 2437 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 87		



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	39.39	2.61	42.00	74.00	-32.00	Peak
4874.00	36.55	2.61	39.16	54.00	-14.84	Average
7311.00	41.23	9.31	50.54	74.00	-23.46	Peak
7311.00	38.14	9.31	47.45	54.00	-6.55	Average



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Project No : TM-2502000034P

Operation Band : 802.11b

Frequency : 2437 MHz

Operation Mode : TX

EUT Pol : E2

Setting : 87

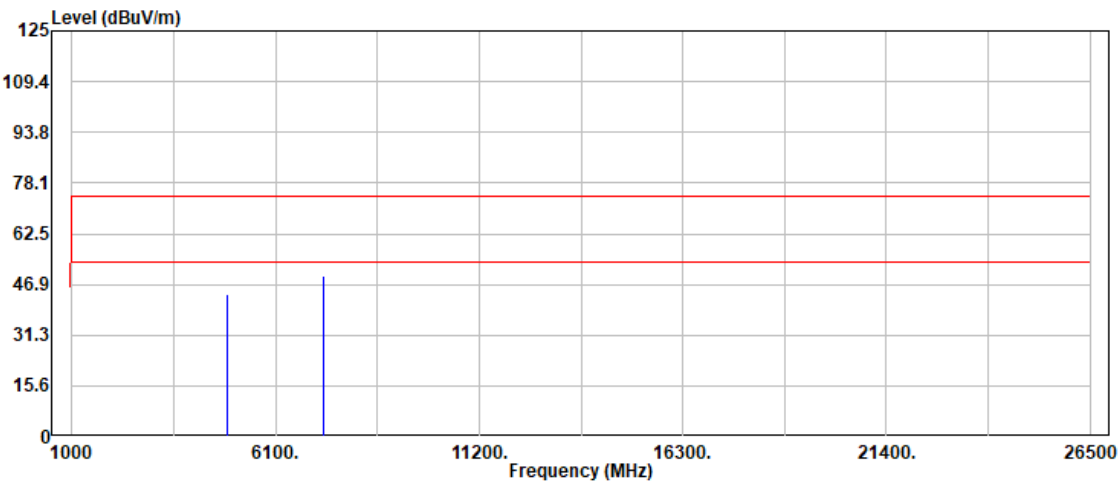
Test Date : 2025-06-24

Temp./Humi. : 25/52

Antenna Pol. : HORIZONTAL

Engineer : Ben.Yang

Test Chamber : 966A



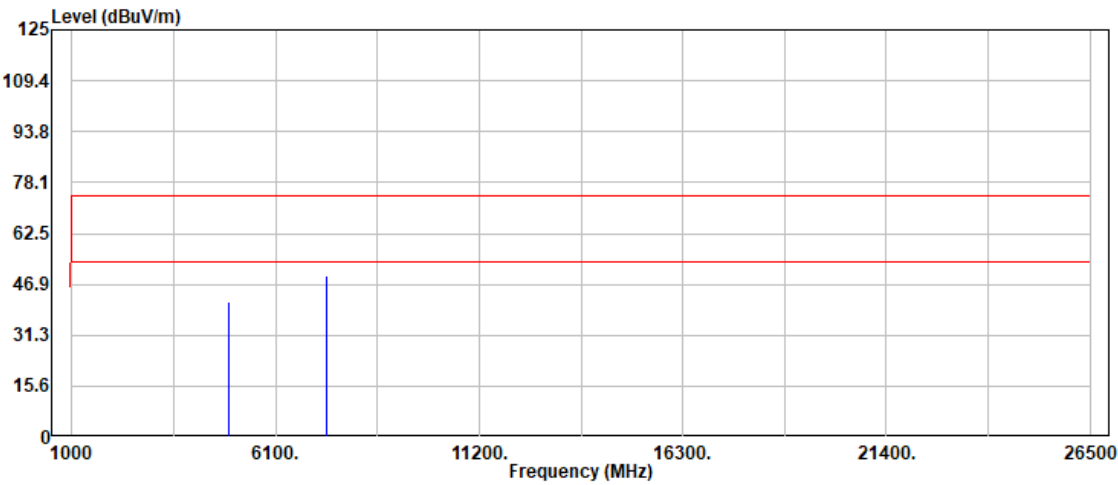
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	41.25	2.61	43.86	74.00	-30.14	Peak
4874.00	38.84	2.61	41.45	54.00	-12.55	Average
7311.00	40.02	9.31	49.33	74.00	-24.67	Peak
7311.00	36.04	9.31	45.35	54.00	-8.65	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11b	Temp./Humi.	: 25/52
Frequency	: 2462 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	38.51	3.15	41.66	74.00	-32.34	Peak
4924.00	33.70	3.15	36.85	54.00	-17.15	Average
7386.00	40.18	9.53	49.71	74.00	-24.29	Peak
7386.00	34.21	9.53	43.74	54.00	-10.26	Average



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Project No : TM-2502000034P

Operation Band : 802.11b

Frequency : 2462 MHz

Operation Mode : TX

EUT Pol : E2

Setting : 77

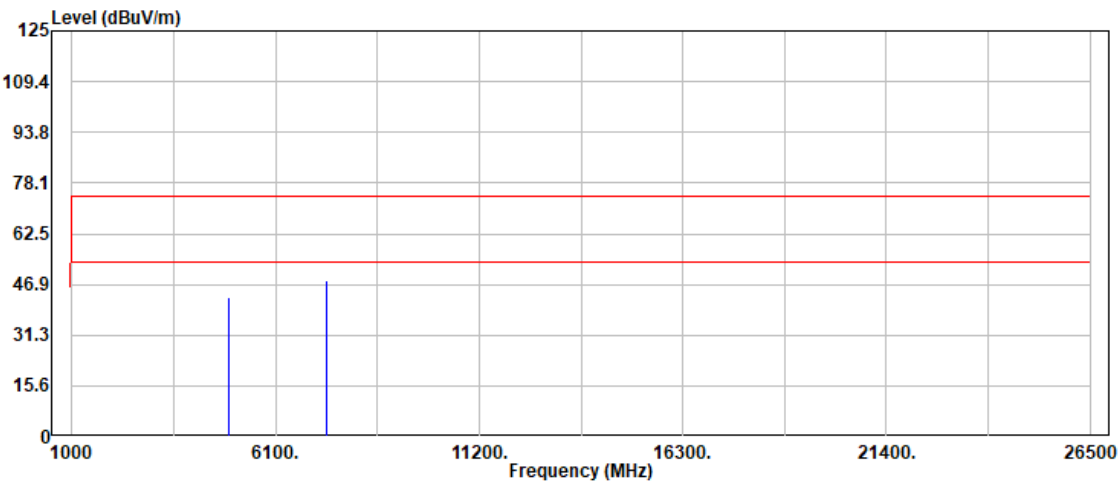
Test Date : 2025-06-24

Temp./Humi. : 25/52

Antenna Pol. : HORIZONTAL

Engineer : Ben.Yang

Test Chamber : 966A



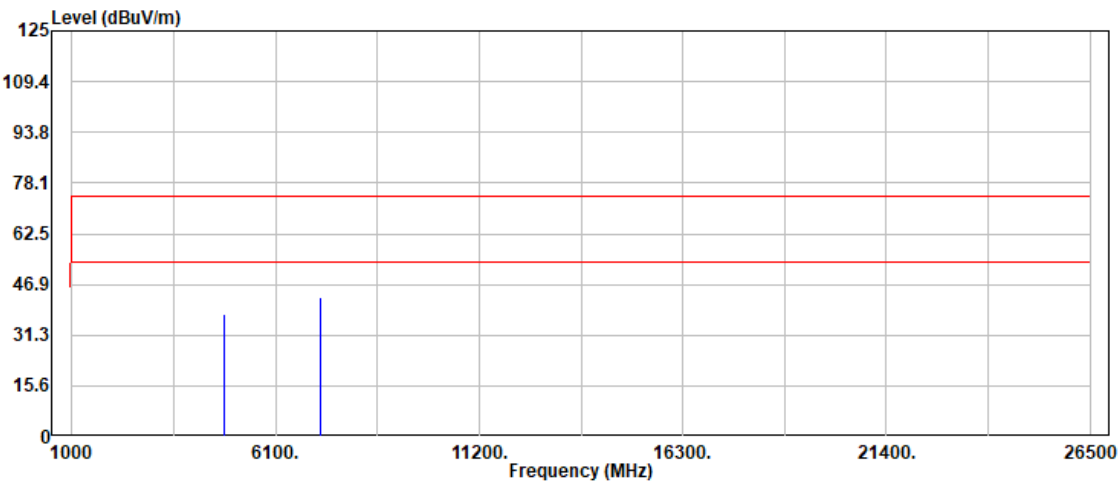
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	39.79	3.15	42.94	74.00	-31.06	Peak
4924.00	36.14	3.15	39.29	54.00	-14.71	Average
7386.00	38.36	9.53	47.89	74.00	-26.11	Peak
7386.00	33.20	9.53	42.73	54.00	-11.27	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



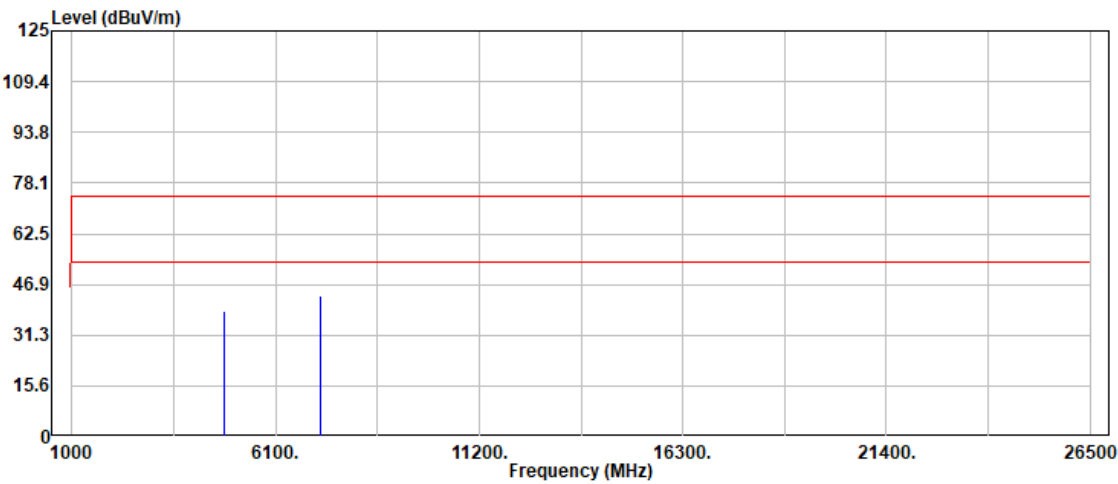
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	35.21	2.39	37.60	74.00	-36.40	Peak
4824.00	30.09	2.39	32.48	54.00	-21.52	Average
7236.00	34.02	9.13	43.15	74.00	-30.85	Peak
7236.00	26.59	9.13	35.72	54.00	-18.28	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



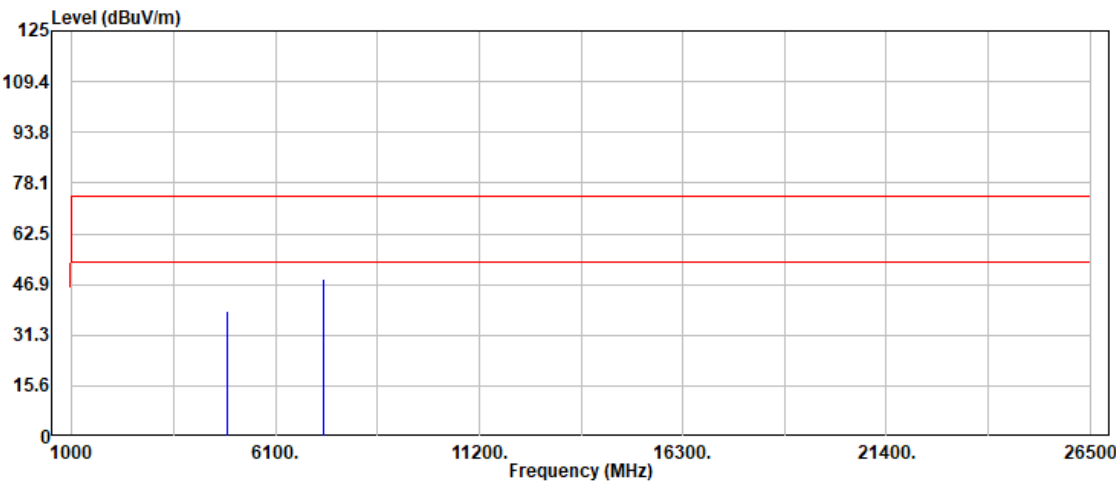
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	36.49	2.39	38.88	74.00	-35.12	Peak
4824.00	28.80	2.39	31.19	54.00	-22.81	Average
7236.00	34.20	9.13	43.33	74.00	-30.67	Peak
7236.00	26.75	9.13	35.88	54.00	-18.12	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2437 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



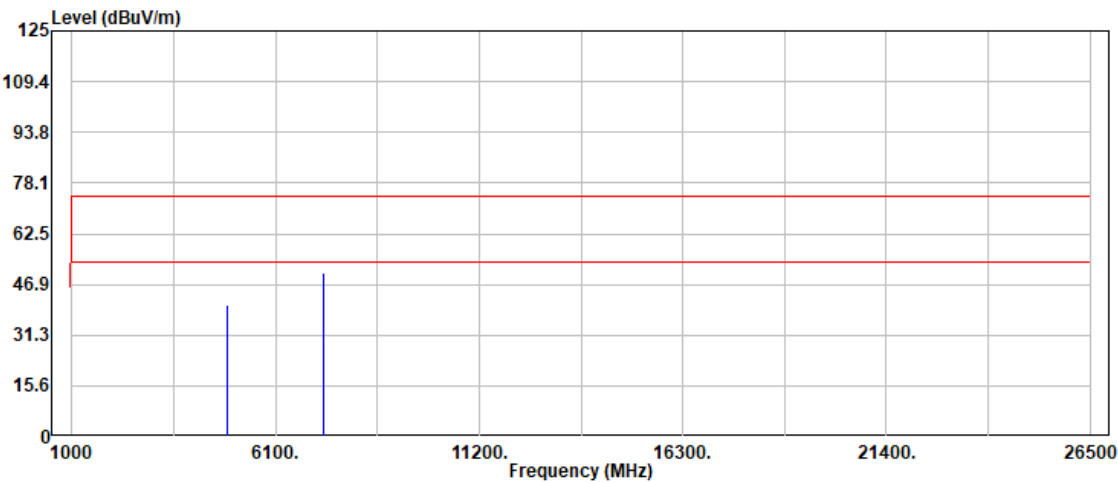
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	36.14	2.61	38.75	74.00	-35.25	Peak
4874.00	30.62	2.61	33.23	54.00	-20.77	Average
7311.00	39.17	9.31	48.48	74.00	-25.52	Peak
7311.00	30.58	9.31	39.89	54.00	-14.11	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2437 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 77		



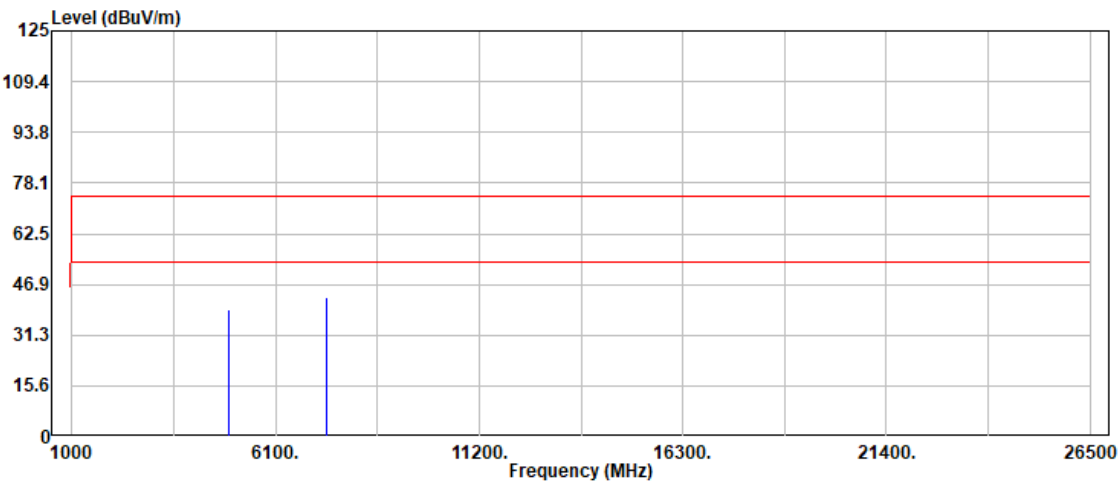
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	38.08	2.61	40.69	74.00	-33.31	Peak
4874.00	30.49	2.61	33.10	54.00	-20.90	Average
7311.00	41.35	9.31	50.66	74.00	-23.34	Peak
7311.00	32.46	9.31	41.77	54.00	-12.23	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2462 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



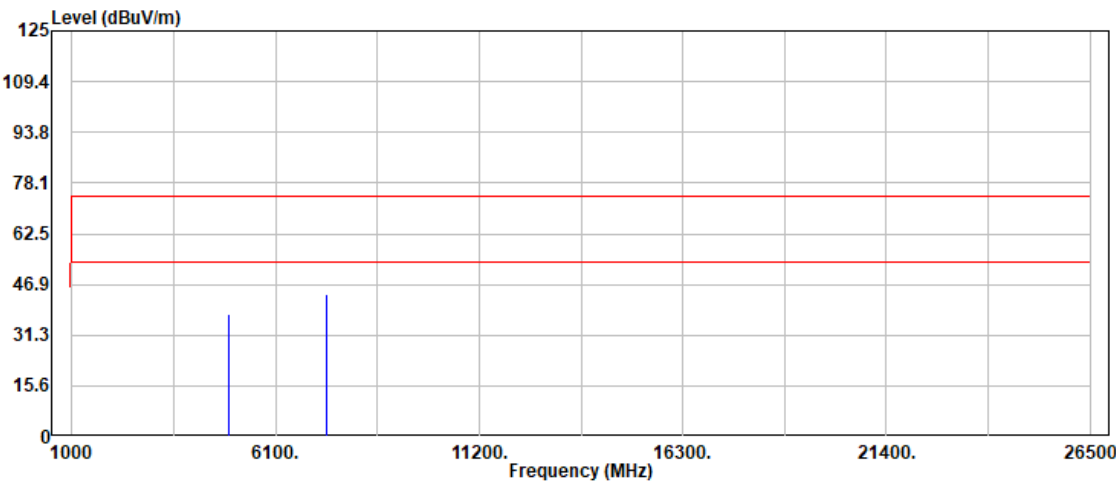
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	35.82	3.15	38.97	74.00	-35.03	Peak
4924.00	29.02	3.15	32.17	54.00	-21.83	Average
7386.00	33.16	9.53	42.69	74.00	-31.31	Peak
7386.00	26.38	9.53	35.91	54.00	-18.09	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11g	Temp./Humi.	: 25/52
Frequency	: 2462 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 50		



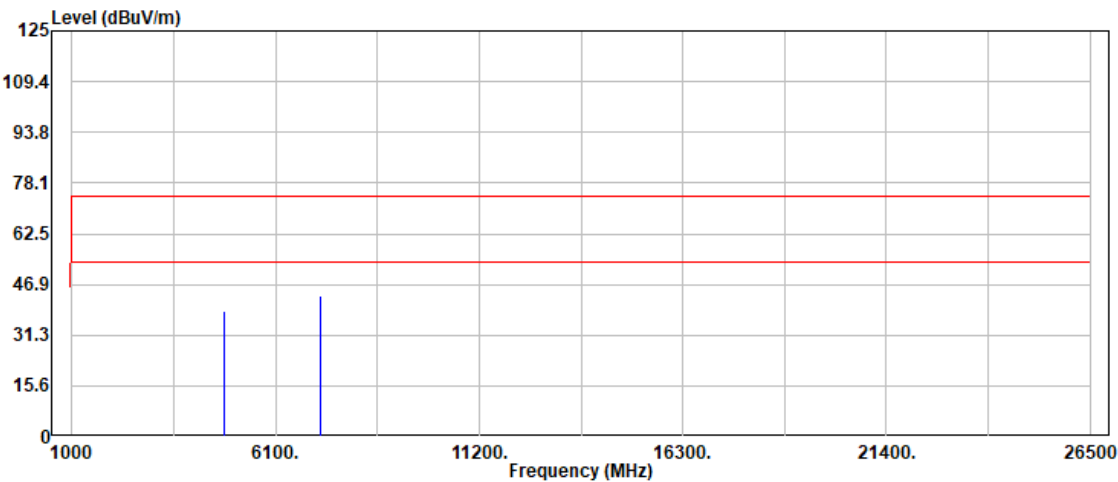
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	34.68	3.15	37.83	74.00	-36.17	Peak
4924.00	28.01	3.15	31.16	54.00	-22.84	Average
7386.00	34.24	9.53	43.77	74.00	-30.23	Peak
7386.00	26.52	9.53	36.05	54.00	-17.95	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11ax20	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 45		



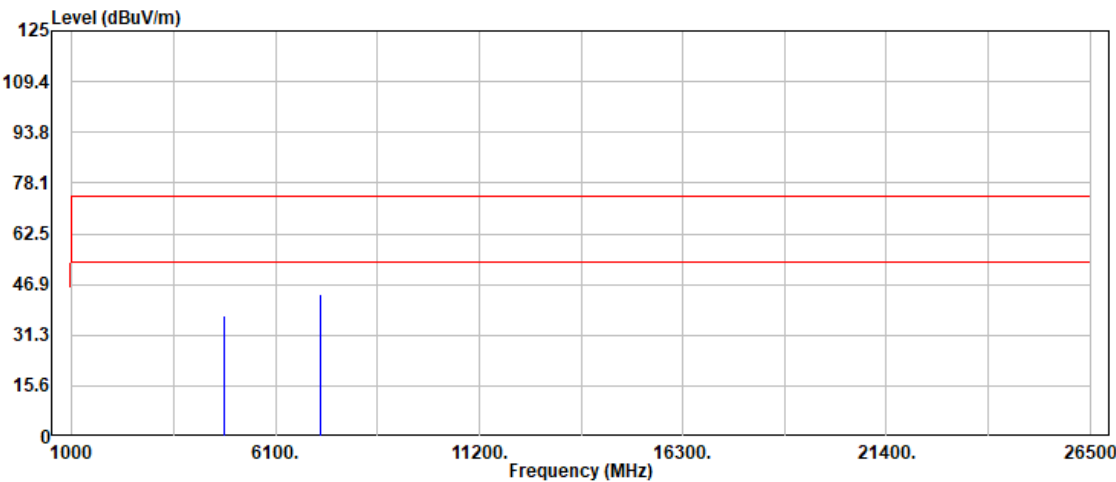
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	36.23	2.39	38.62	74.00	-35.38	Peak
4824.00	29.39	2.39	31.78	54.00	-22.22	Average
7236.00	34.05	9.13	43.18	74.00	-30.82	Peak
7236.00	26.46	9.13	35.59	54.00	-18.41	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11ax20	Temp./Humi.	: 25/52
Frequency	: 2412 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 45		



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	35.04	2.39	37.43	74.00	-36.57	Peak
4824.00	28.80	2.39	31.19	54.00	-22.81	Average
7236.00	34.86	9.13	43.99	74.00	-30.01	Peak
7236.00	26.76	9.13	35.89	54.00	-18.11	Average



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Project No : TM-2502000034P

Operation Band : 802.11ax20

Frequency : 2437 MHz

Operation Mode : TX

EUT Pol : E2

Setting : 76

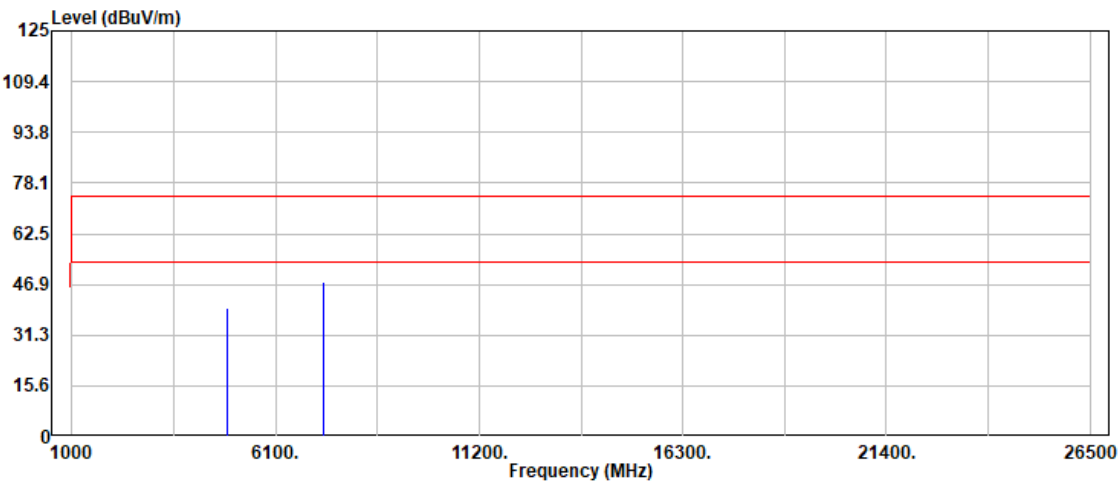
Test Date : 2025-06-24

Temp./Humi. : 25/52

Antenna Pol. : VERTICAL

Engineer : Ben.Yang

Test Chamber : 966A



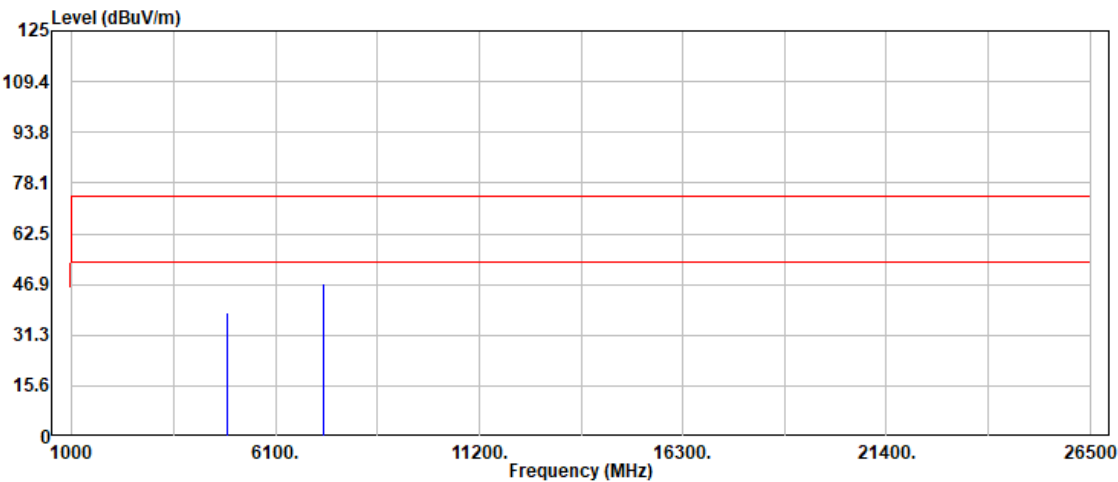
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	37.12	2.61	39.73	74.00	-34.27	Peak
4874.00	30.42	2.61	33.03	54.00	-20.97	Average
7311.00	38.38	9.31	47.69	74.00	-26.31	Peak
7311.00	30.18	9.31	39.49	54.00	-14.51	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11ax20	Temp./Humi.	: 25/52
Frequency	: 2437 MHz	Antenna Pol.	: HORIZONTAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 76		



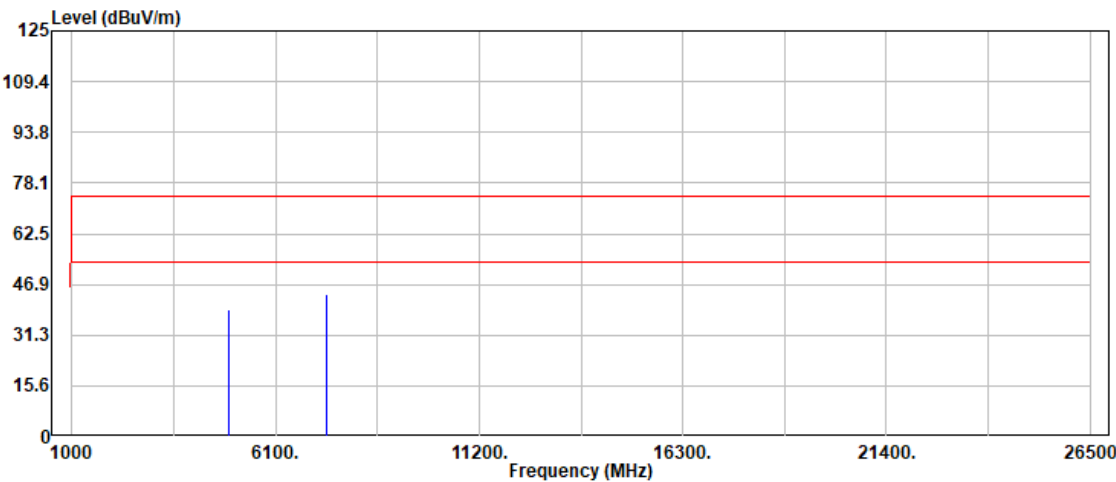
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	35.76	2.61	38.37	74.00	-35.63	Peak
4874.00	27.34	2.61	29.95	54.00	-24.05	Average
7311.00	37.63	9.31	46.94	74.00	-27.06	Peak
7311.00	29.47	9.31	38.78	54.00	-15.22	Average



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Project No	: TM-2502000034P	Test Date	: 2025-06-24
Operation Band	: 802.11ax20	Temp./Humi.	: 25/52
Frequency	: 2462 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	: 45		



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	36.09	3.15	39.24	74.00	-34.76	Peak
4924.00	29.42	3.15	32.57	54.00	-21.43	Average
7386.00	34.15	9.53	43.68	74.00	-30.32	Peak
7386.00	26.49	9.53	36.02	54.00	-17.98	Average



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Project No : TM-2502000034P

Operation Band : 802.11ax20

Frequency : 2462 MHz

Operation Mode : TX

EUT Pol : E2

Setting : 45

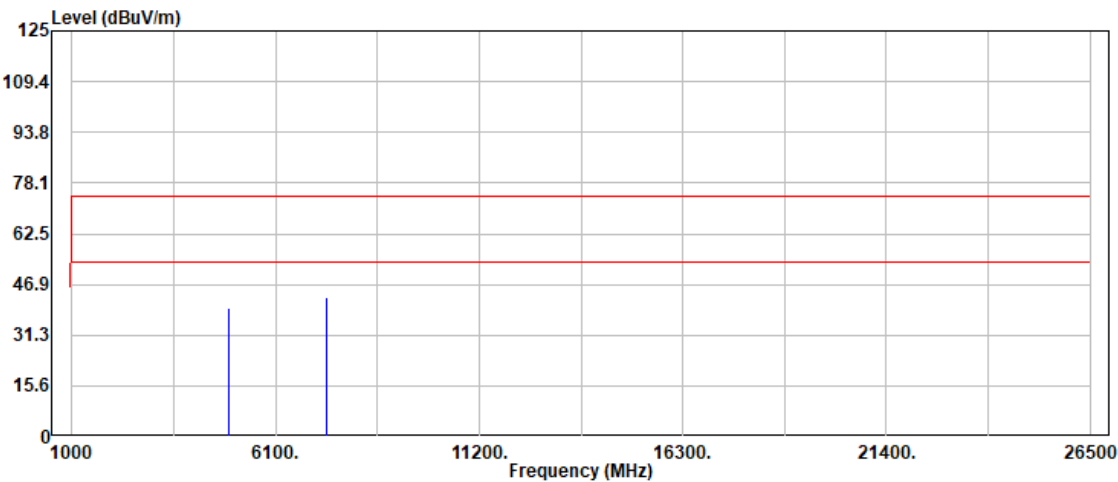
Test Date : 2025-06-24

Temp./Humi. : 25/52

Antenna Pol. : HORIZONTAL

Engineer : Ben.Yang

Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	36.55	3.15	39.70	74.00	-34.30	Peak
4924.00	28.31	3.15	31.46	54.00	-22.54	Average
7386.00	33.40	9.53	42.93	74.00	-31.07	Peak
7386.00	26.40	9.53	35.93	54.00	-18.07	Average

- End of Test Report -