

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

FCC ID: ZQ6-AP6611S

Page: 1 / 49
Rev.: 00

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。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 2 / 49
Rev.: 00

Revision History

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

Table of contents

1.	GENERAL INFORMATION	4
1.1	EUT INFORMATION	4
1.2	EUT CHANNEL INFORMATION	6
1.3	ANTENNA INFORMATION	6
1.4	MEASUREMENT UNCERTAINTY.....	7
1.5	FACILITIES AND TEST LOCATION	7
1.6	INSTRUMENT CALIBRATION	8
1.7	SUPPORT AND EUT ACCESSORIES EQUIPMENT	10
1.8	TEST SETUP DIAGRAM(S)	11
1.9	TEST PROGRAM	11
1.10	TEST METHODOLOGY AND APPLIED STANDARDS	11
2.	TEST SUMMERY	12
3.	DESCRIPTION OF TEST MODES.....	13
3.1	THE WORST MODE OF OPERATING CONDITION	13
3.2	THE WORST MODE OF MEASUREMENT	14
3.3	EUT DUTY CYCLE.....	15
4.	TEST RESULT	16
4.1	AC POWER LINE CONDUCTED EMISSION	16
4.2	OUTPUT POWER MEASUREMENT	21
4.3	RADIATION BANEDGE AND SPURIOUS EMISSION	24
APPENDIX 1 - PHOTOGRAPHS OF EUT		

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.

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	2402MHz-2480MHz
Modulation Type	GFSK for BLE 1 Mbps GFSK for BLE 2 Mbps
Number of channel	40 Channels

Remark:

Refer as ANSI C63.10-2020+Cor.1-2023 and RSS-GEN 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.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 2.21 dB
Channel Bandwidth	+/- 2.79 dB
RF output power (Power Meter + Power sensor)	+/- 0.24 dB
Power Spectral density	+/- 2.74 dB
Conducted Bandedge	+/- 2.74 dB
Conducted Spurious Emission	+/- 2.74 dB
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	Ben Yang 、Tony Chao	-
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

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.

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.

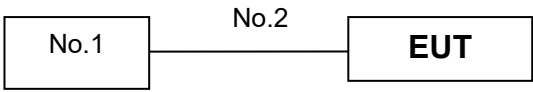
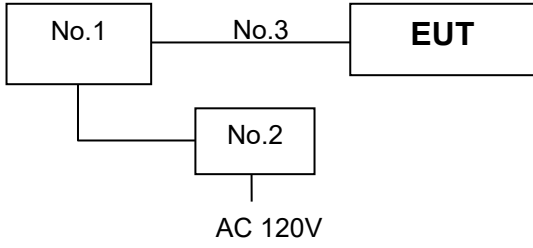
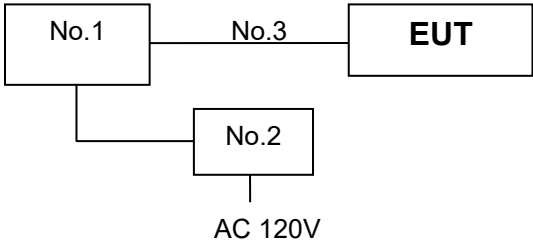
1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

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

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.

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

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	BLE Mode (1Mbps) BLE Mode (2Mbps)
Test Channel Frequencies	1.Lowest Channel : 2402MHz 2.Middle Channel : 2442MHz 3.Highest Channel : 2480MHz

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

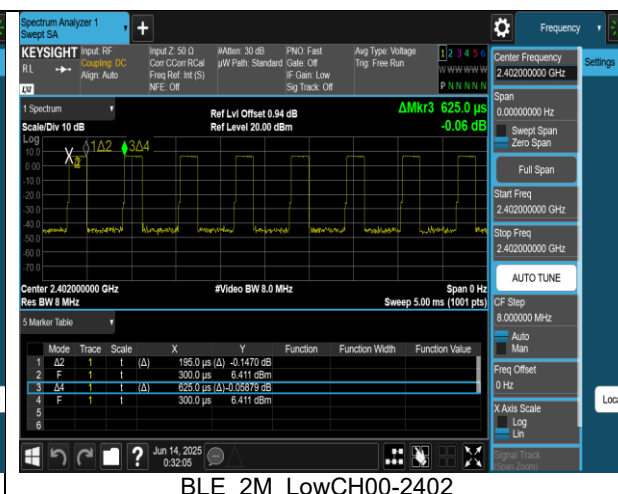
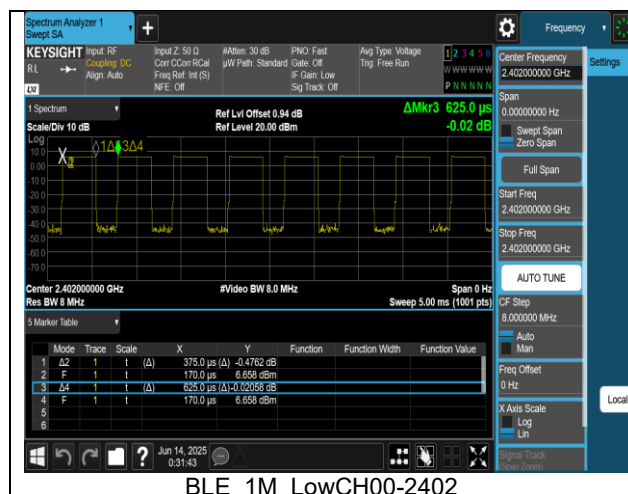
Remark:

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 were performed the EUT transmit at the highest output power channel as worse case.

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

Duty Cycle				
Configuration	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	60.00	2.22	2.67	3.00
BLE 2M	31.20	5.06	5.13	6.00



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a),

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

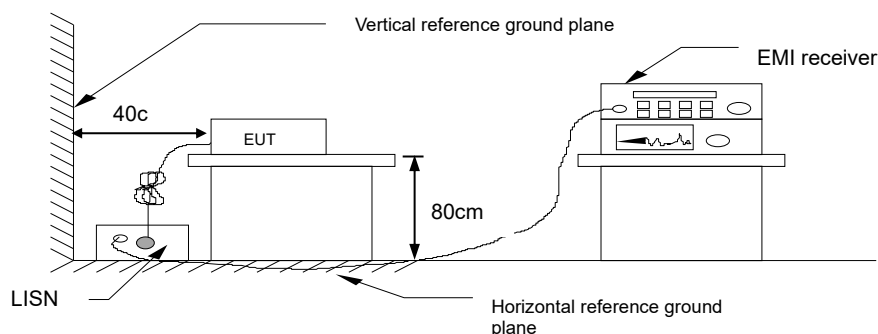
* Decreases with the logarithm of the frequency.

4.1.2 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.

4.1.3 Test Setup



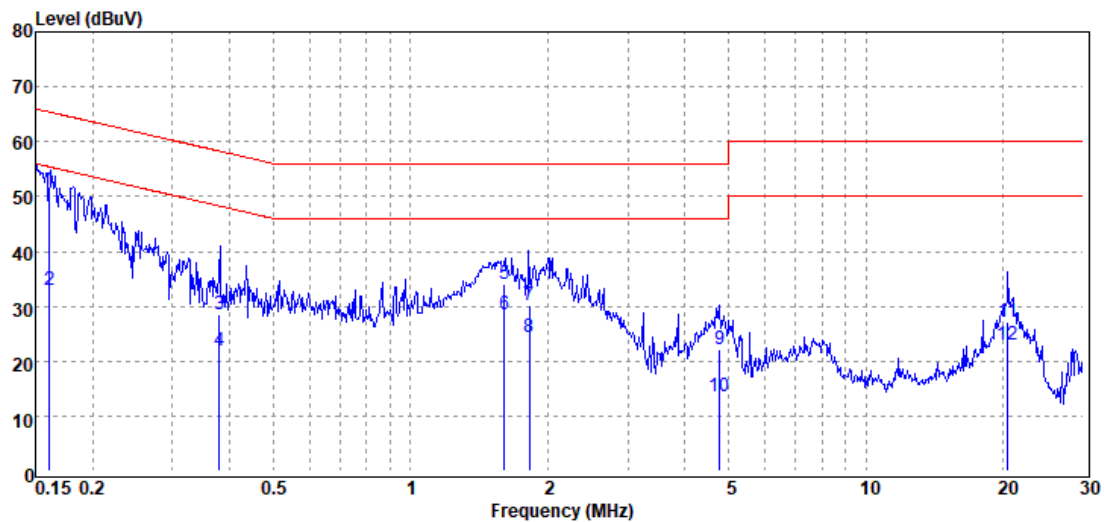
4.1.4 Test Result

Pass

Test Data

Project No : TM-2502000034P
Operation Mode : BLE
Test Chamber : Conduction
Probe : LINE
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
0.161	QP	51.03	0.09	51.12	65.41	-14.29
0.161	Average	32.80	0.09	32.89	55.41	-22.52
0.380	QP	28.53	0.06	28.59	58.28	-29.69
0.380	Average	21.78	0.06	21.84	48.28	-26.44
1.609	QP	33.86	0.10	33.96	56.00	-22.04
1.609	Average	28.37	0.10	28.47	46.00	-17.53
1.824	QP	29.94	0.11	30.05	56.00	-25.95
1.824	Average	24.33	0.11	24.44	46.00	-21.56
4.767	QP	22.07	0.16	22.23	56.00	-33.77
4.767	Average	13.43	0.16	13.59	46.00	-32.41
20.475	QP	26.81	0.35	27.16	60.00	-32.84
20.475	Average	22.67	0.35	23.02	50.00	-26.98

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

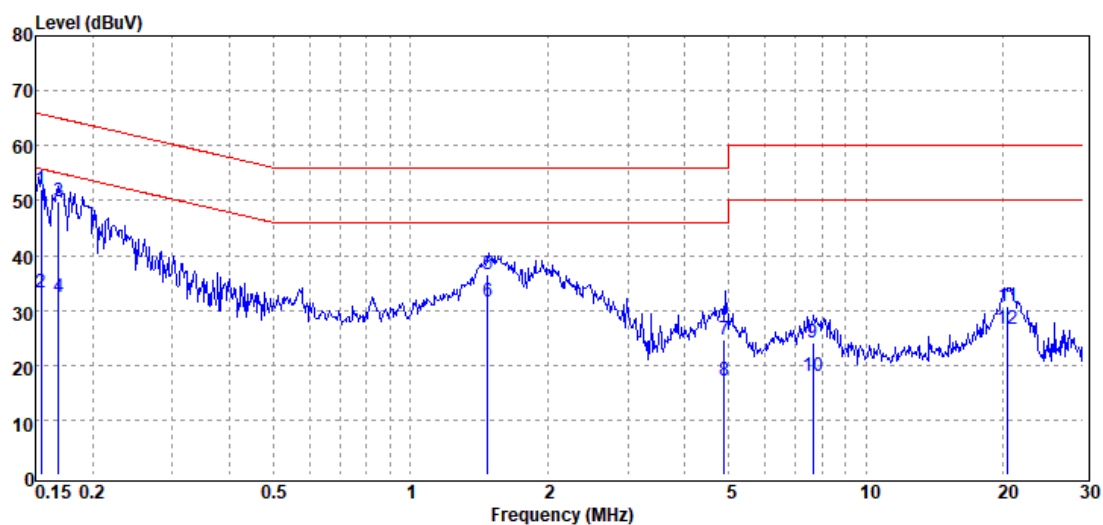
Note: 2. Margin= Actual FS - Limit

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 18 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Mode : BLE
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
0.155	QP	51.95	0.10	52.05	65.75	-13.70
0.155	Average	33.23	0.10	33.33	55.75	-22.42
0.168	QP	49.65	0.10	49.75	65.04	-15.29
0.168	Average	32.20	0.10	32.30	55.04	-22.74
1.476	QP	36.41	0.12	36.53	56.00	-19.47
1.476	Average	31.34	0.12	31.46	46.00	-14.54
4.878	QP	24.45	0.20	24.65	56.00	-31.35
4.878	Average	16.97	0.20	17.17	46.00	-28.83
7.658	QP	23.97	0.23	24.20	60.00	-35.80
7.658	Average	17.75	0.23	17.98	50.00	-32.02
20.460	QP	30.47	0.36	30.83	60.00	-29.17
20.460	Average	26.22	0.36	26.58	50.00	-23.42

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

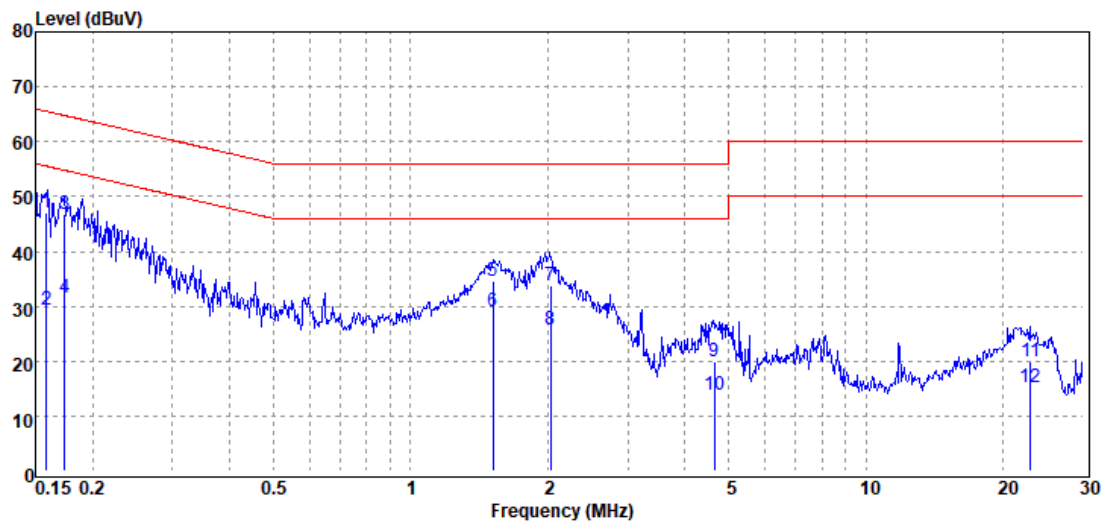
Note: 2. Margin= Actual FS - Limit

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 19 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Mode : BLE
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
0.159	QP	47.03	0.09	47.12	65.54	-18.42
0.159	Average	29.35	0.09	29.44	55.54	-26.10
0.174	QP	46.69	0.08	46.77	64.78	-18.01
0.174	Average	31.36	0.08	31.44	54.78	-23.34
1.518	QP	34.57	0.10	34.67	56.00	-21.33
1.518	Average	29.10	0.10	29.20	46.00	-16.80
2.027	QP	33.73	0.11	33.84	56.00	-22.16
2.027	Average	25.74	0.11	25.85	46.00	-20.15
4.645	QP	19.85	0.16	20.01	56.00	-35.99
4.645	Average	13.66	0.16	13.82	46.00	-32.18
22.951	QP	19.50	0.37	19.87	60.00	-40.13
22.951	Average	14.87	0.37	15.24	50.00	-34.76

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

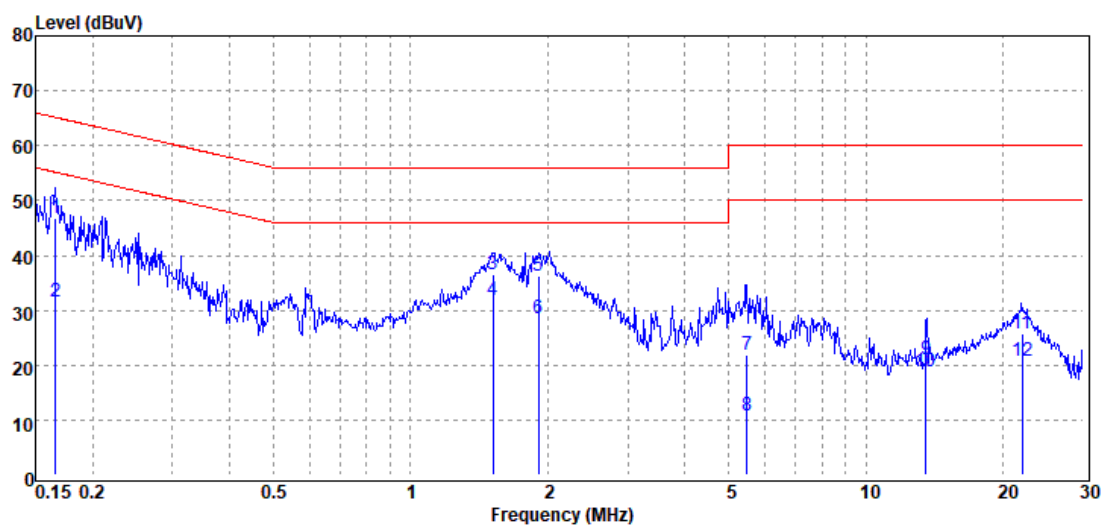
Note: 2. Margin= Actual FS - Limit

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 20 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Mode : BLE
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
0.166	QP	46.58	0.10	46.68	65.17	-18.49
0.166	Average	31.49	0.10	31.59	55.17	-23.58
1.518	QP	36.52	0.12	36.64	56.00	-19.36
1.518	Average	31.81	0.12	31.93	46.00	-14.07
1.910	QP	36.10	0.13	36.23	56.00	-19.77
1.910	Average	28.48	0.13	28.61	46.00	-17.39
5.475	QP	21.63	0.20	21.83	60.00	-38.17
5.475	Average	10.57	0.20	10.77	50.00	-39.23
13.562	QP	20.67	0.29	20.96	60.00	-39.04
13.562	Average	18.42	0.29	18.71	50.00	-31.29
22.005	QP	25.37	0.36	25.73	60.00	-34.27
22.005	Average	20.32	0.36	20.68	50.00	-29.32

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

Note: 2. Margin= Actual FS - Limit

4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.247(b)(3) ,

Peak output power :

FCC

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

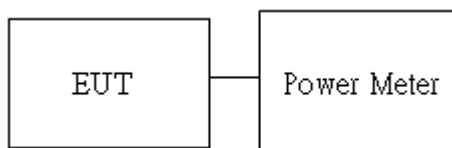
Average output power : For reporting purposes only.

4.2.2 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.

4.2.3 Test Setup



4.2.4 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 :

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	6.01	30
19	2440	default	6.22	30
39	2480	default	6.28	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	5.49	30
19	2440	default	5.72	30
39	2480	default	5.76	30

***Note:**

1.Measured by power meter, cable loss dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

BLE 2M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	6.26	30
19	2440	default	6.67	30
39	2480	default	6.73	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	5.28	30
19	2440	default	5.64	30
39	2480	default	5.69	30

***Note:**

1. Measured by power meter, cable loss 0 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

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 (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

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

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 C63.10-2020+ Cor.1-2023, 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 $\geq 3 \times$ 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.

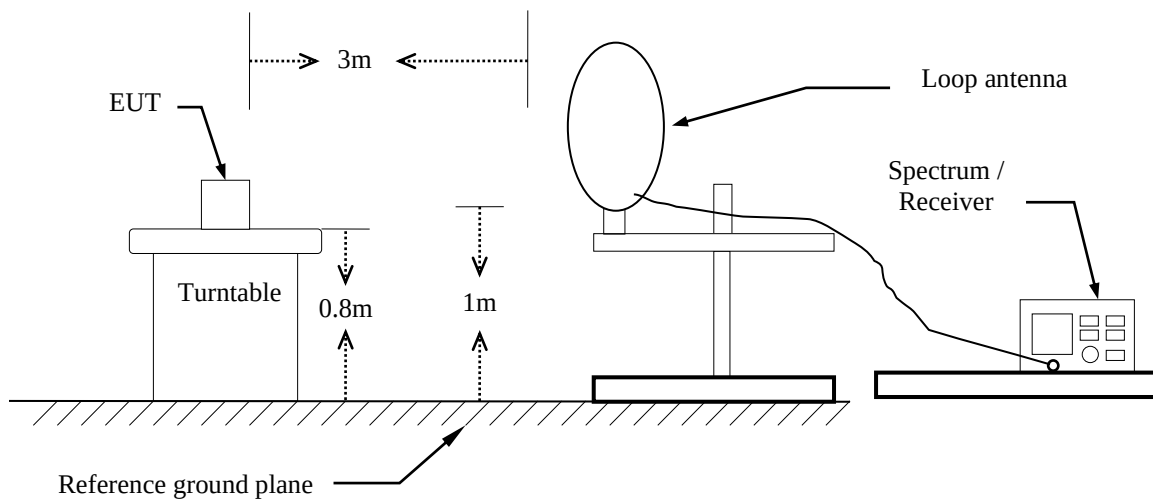
6. Data result :

Actual FS=Spectrum Reading Level + Factor

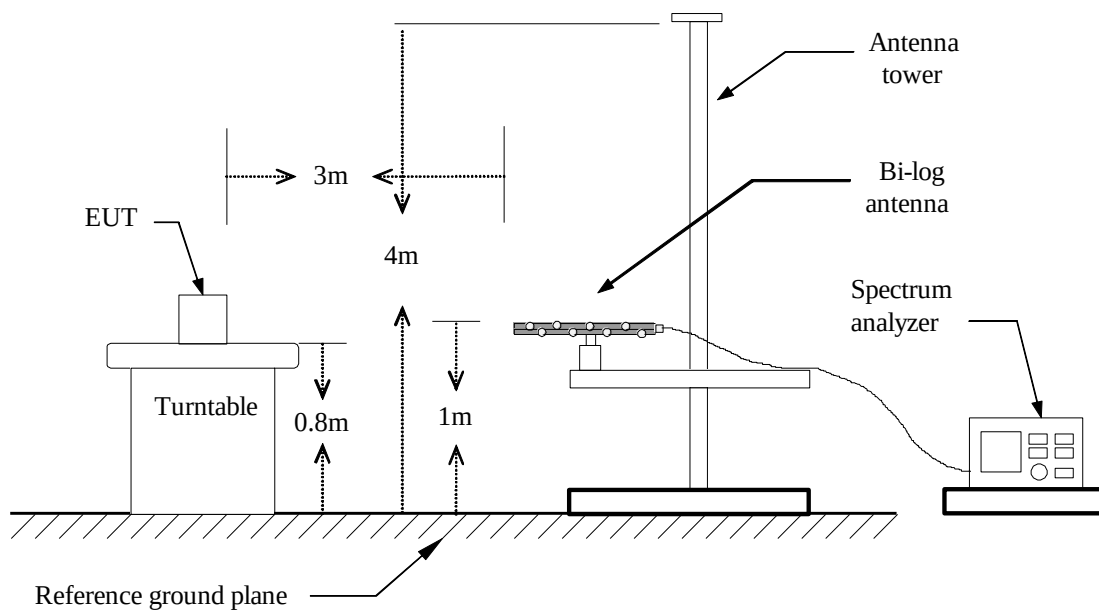
Margin=Actual FS- Limit

4.3.3 Test Setup

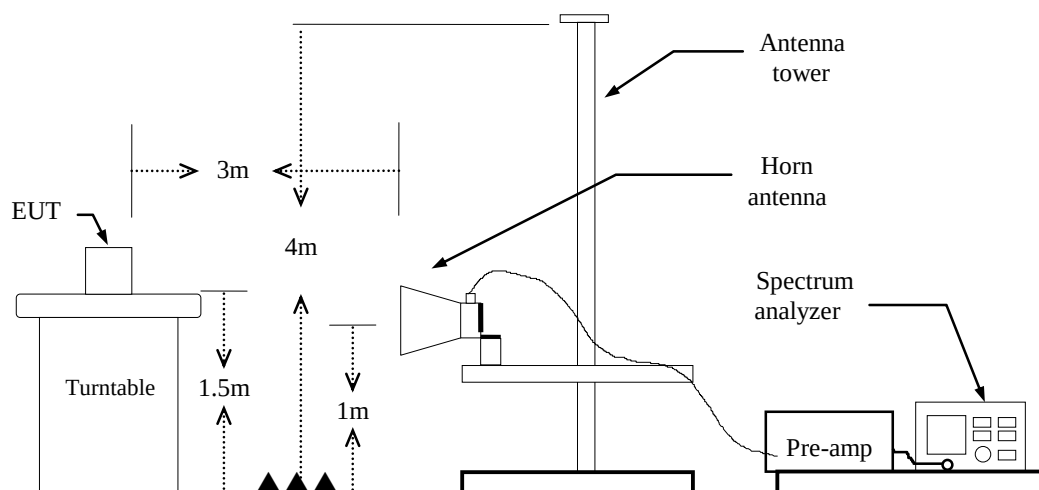
9kHz ~ 30MHz



30MHz ~ 1GHz



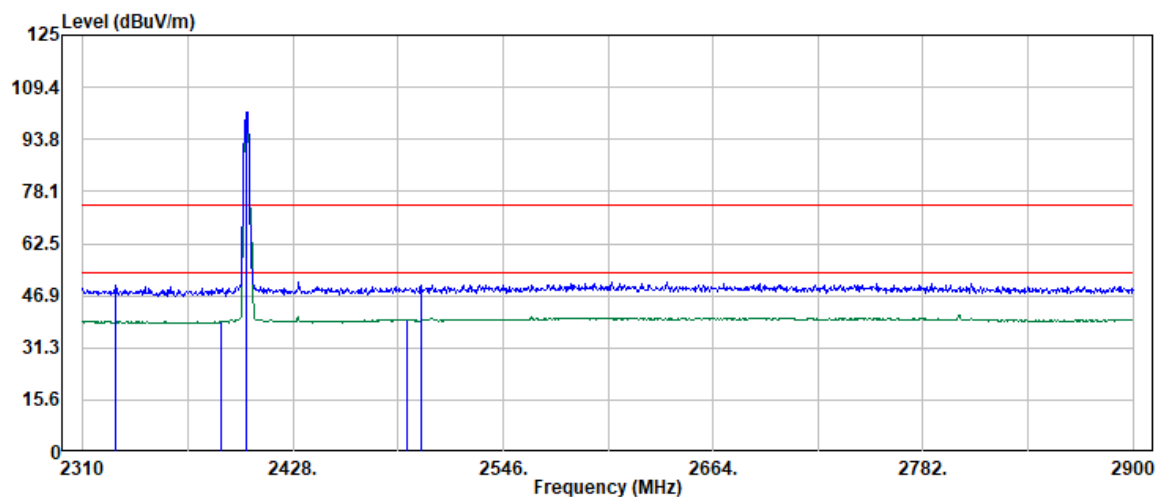
Above 1 GHz



4.3.4 Test Result

Band Edge Test Data

Project No	: TM-2502000034P	Test Date	: 2025-06-25
Operation Band	: BLE_1M	Temp./Humi.	: 25.4/55
Frequency	: 2402 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: Bandedge	Engineer	: Ben.Yang
EUT Pol	: E2	Test Chamber	: 966A
Setting	:		



Trace: 1

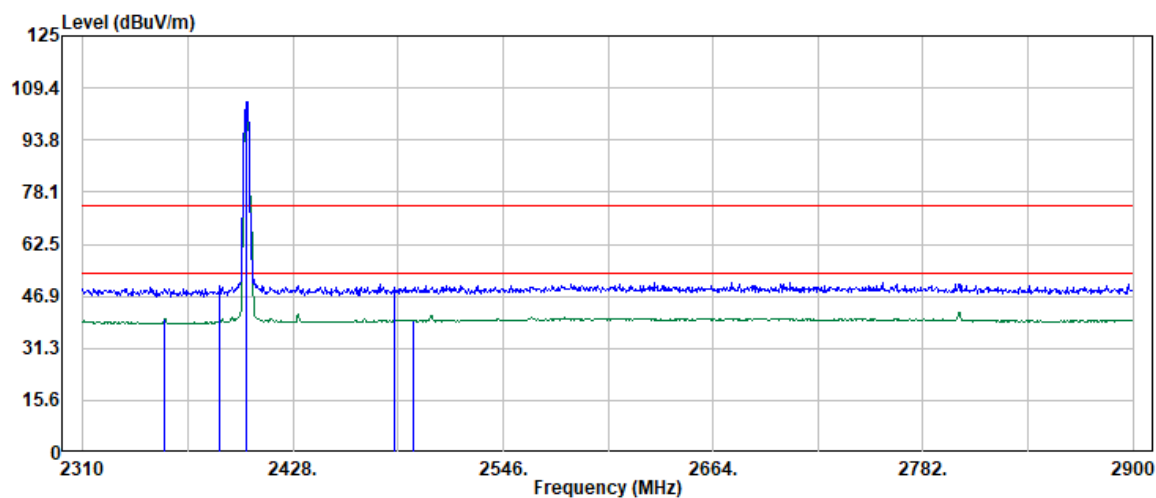
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2327.99	43.56	6.24	49.80	74.00	-24.20	Peak
2387.93	33.03	6.31	39.34	54.00	-14.66	Average
2402.00	95.56	6.38	101.94	--	--	Peak
2402.00	94.60	6.38	100.98	--	--	Average
2492.35	32.99	6.82	39.81	54.00	-14.19	Average
2499.84	42.96	6.81	49.77	74.00	-24.23	Peak

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 29 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2402 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

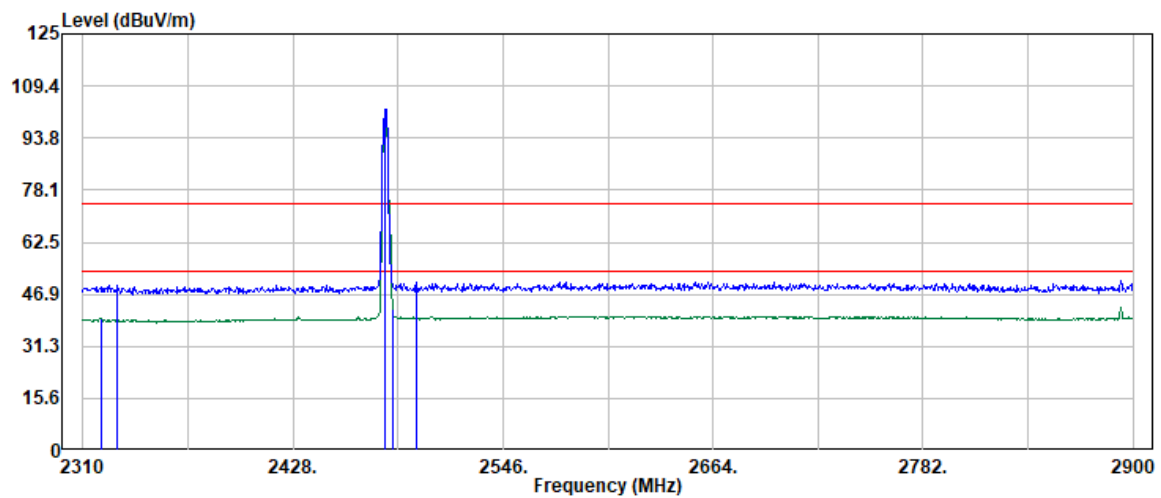
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2355.96	34.04	6.11	40.15	54.00	-13.85	Average
2386.94	43.70	6.30	50.00	74.00	-24.00	Peak
2402.00	99.04	6.38	105.42	--	--	Peak
2402.00	98.04	6.38	104.42	--	--	Average
2485.35	42.98	6.78	49.76	74.00	-24.24	Peak
2495.84	32.86	6.82	39.68	54.00	-14.32	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 30 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2480 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



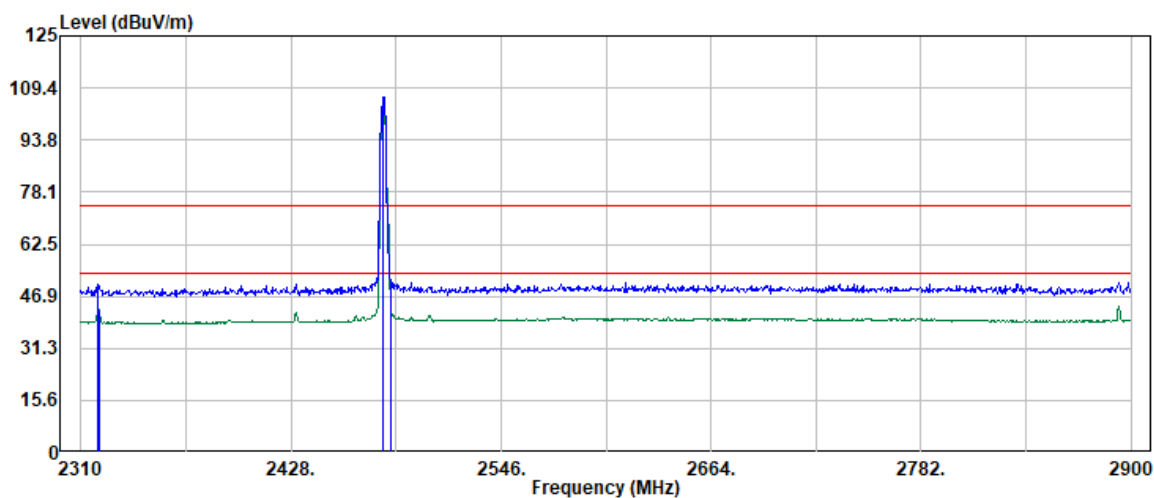
Trace: 1						
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2319.99	33.50	6.26	39.76	54.00	-14.24	Average
2329.48	43.20	6.24	49.44	74.00	-24.56	Peak
2480.00	95.76	6.73	102.49	--	--	Peak
2480.00	94.85	6.73	101.58	--	--	Average
2483.85	35.65	6.77	42.42	54.00	-11.58	Average
2497.84	43.63	6.81	50.44	74.00	-23.56	Peak

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 31 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2480 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

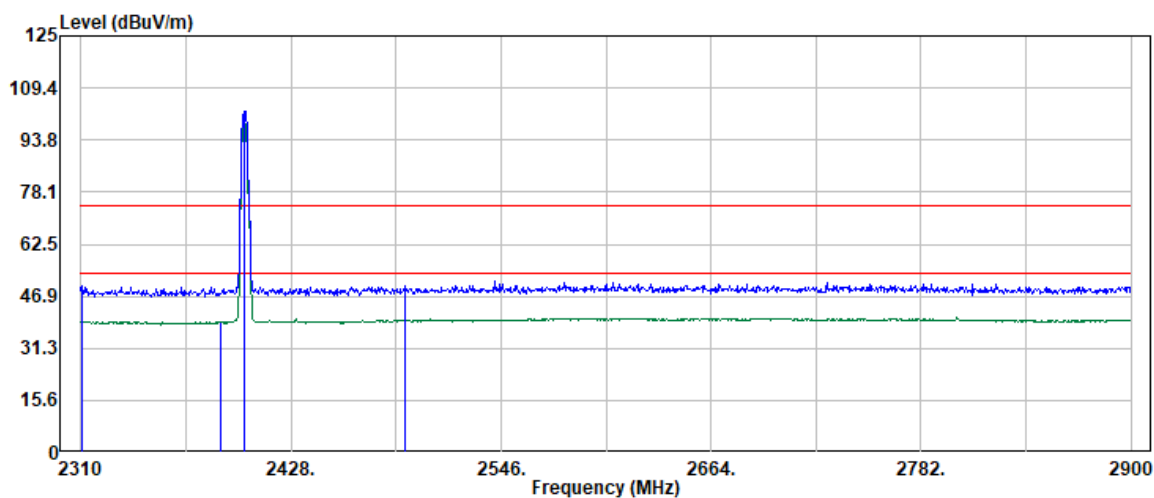
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2319.49	44.14	6.27	50.41	74.00	-23.59	Peak
2319.99	36.89	6.26	43.15	54.00	-10.85	Average
2480.00	99.99	6.73	106.72	--	--	Peak
2480.00	99.09	6.73	105.82	--	--	Average
2483.85	44.44	6.77	51.21	74.00	-22.79	Peak
2483.85	38.06	6.77	44.83	54.00	-9.17	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 32 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2402 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

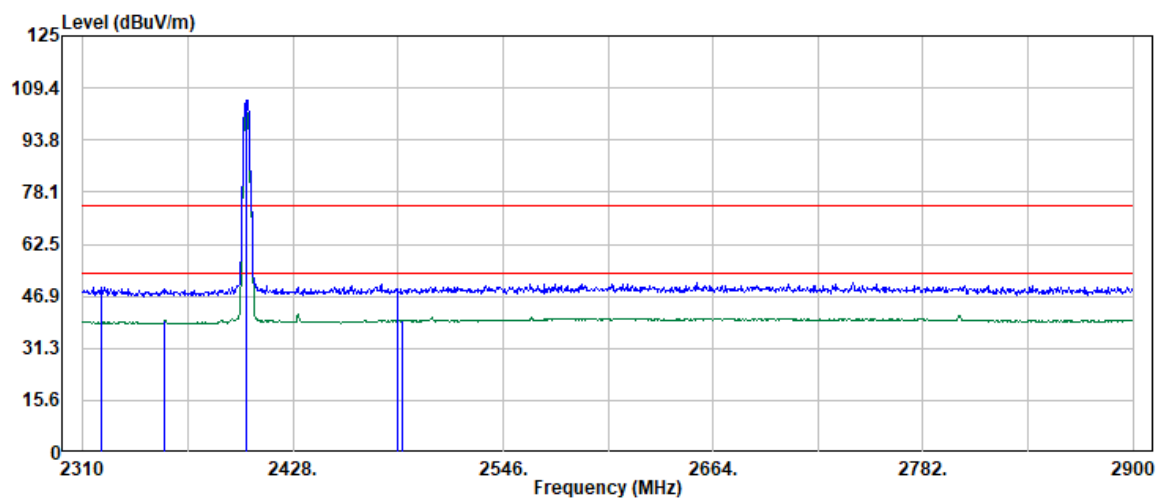
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2311.00	43.65	6.38	50.03	74.00	-23.97	Peak
2388.43	32.87	6.31	39.18	54.00	-14.82	Average
2402.00	95.93	6.38	102.31	--	--	Peak
2402.00	92.59	6.38	98.97	--	--	Average
2491.85	33.00	6.82	39.82	54.00	-14.18	Average
2492.35	43.00	6.82	49.82	74.00	-24.18	Peak

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 33 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2402 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

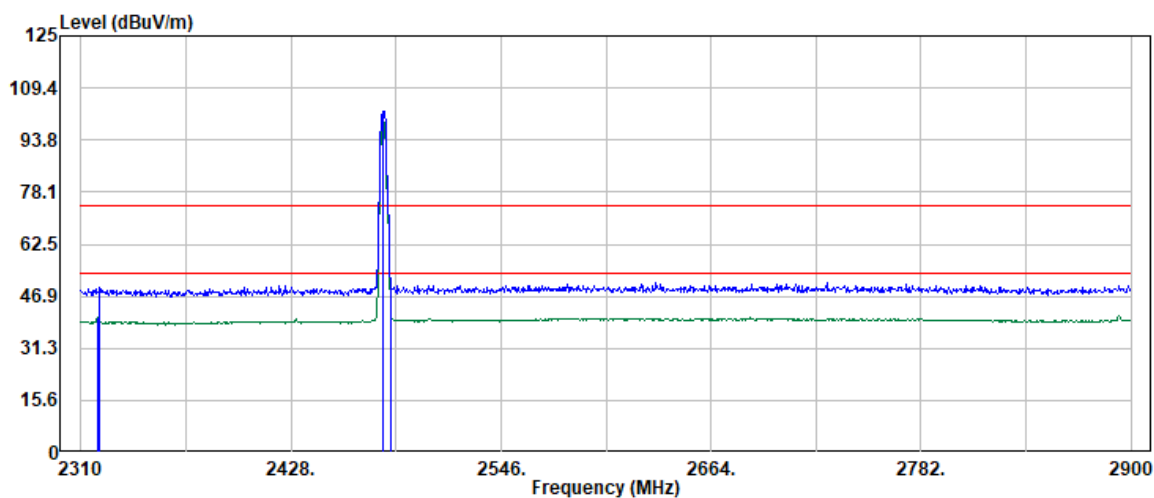
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2319.99	43.21	6.26	49.47	74.00	-24.53	Peak
2355.96	33.74	6.11	39.85	54.00	-14.15	Average
2402.00	99.30	6.38	105.68	--	--	Peak
2402.00	96.03	6.38	102.41	--	--	Average
2486.85	42.44	6.80	49.24	74.00	-24.76	Peak
2489.85	32.81	6.82	39.63	54.00	-14.37	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 34 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2480 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

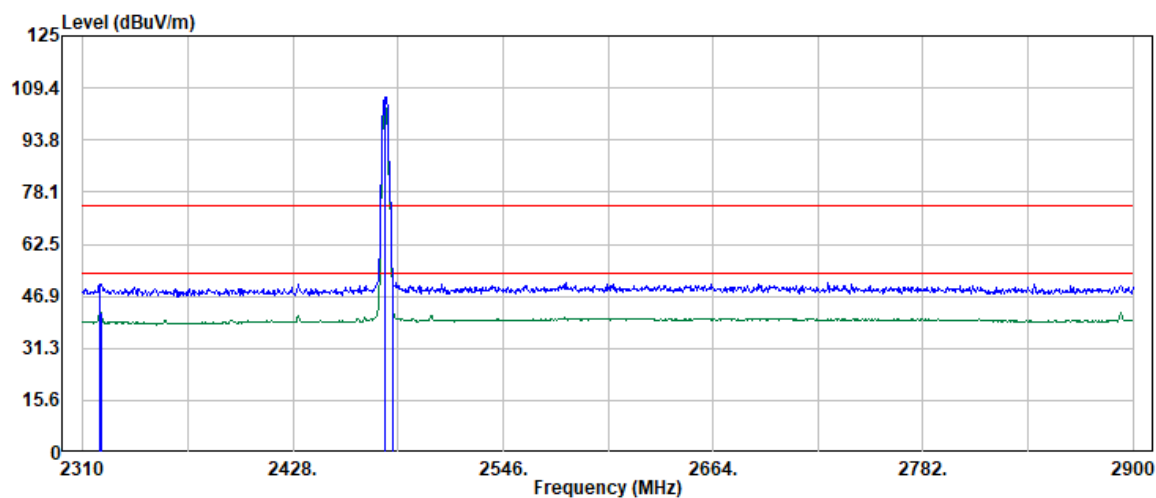
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2319.49	34.28	6.27	40.55	54.00	-13.45	Average
2320.49	43.43	6.26	49.69	74.00	-24.31	Peak
2480.00	95.60	6.73	102.33	--	--	Peak
2480.00	92.33	6.73	99.06	--	--	Average
2483.85	43.31	6.77	50.08	74.00	-23.92	Peak
2483.85	37.75	6.77	44.52	54.00	-9.48	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 35 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2480 MHz
Operation Mode : Bandedge
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

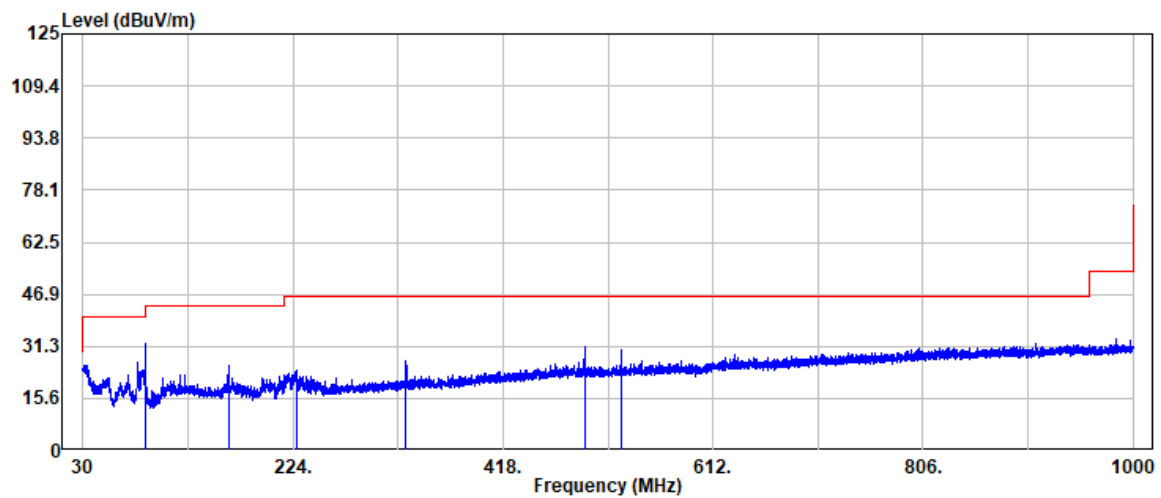
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2319.49	44.39	6.27	50.66	74.00	-23.34	Peak
2319.99	35.59	6.26	41.85	54.00	-12.15	Average
2480.00	100.08	6.73	106.81	--	--	Peak
2480.00	96.72	6.73	103.45	--	--	Average
2483.85	46.49	6.77	53.26	74.00	-20.74	Peak
2483.85	41.26	6.77	48.03	54.00	-5.97	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 36 / 49
Rev.: 00

TX Test Data

Project No	: TM-2502000034P	Test Date	: 2025-06-27
Operation Band	: BLE_2M	Temp./Humi.	: 25.3/51
Frequency	: 2480 MHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Tony.Chao
EUT Pol	: E2	Test Chamber	: 966A
Setting	:		



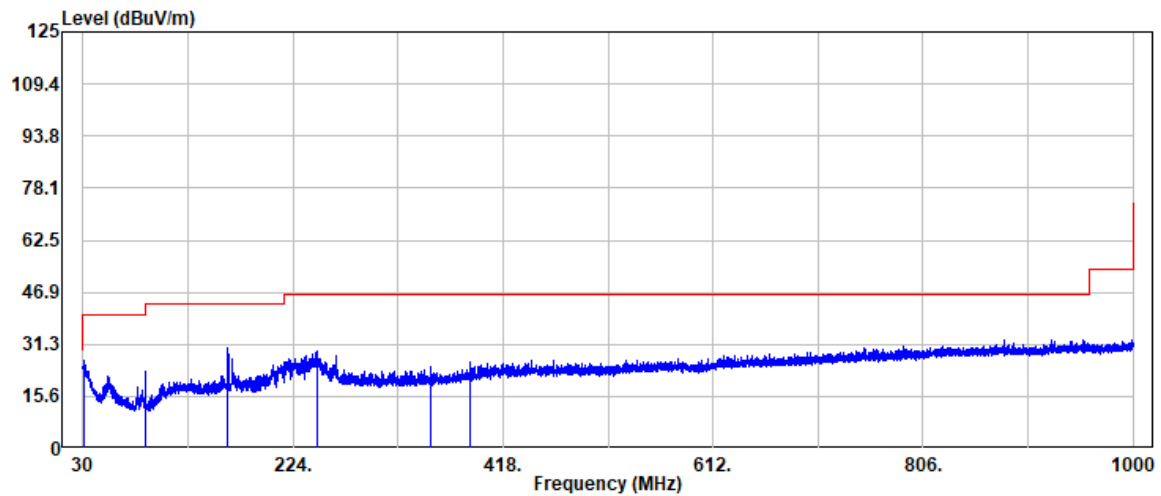
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
88.00	48.42	-16.31	32.11	40.00	-7.89	Peak
164.40	36.79	-11.47	25.32	43.50	-18.18	Peak
226.80	36.35	-12.28	24.07	46.00	-21.93	Peak
328.40	35.66	-8.82	26.84	46.00	-19.16	Peak
494.30	35.63	-4.43	31.20	46.00	-14.80	Peak
527.10	34.19	-4.12	30.07	46.00	-15.93	Peak

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 37 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2480 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-27
Temp./Humi. : 25.3/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



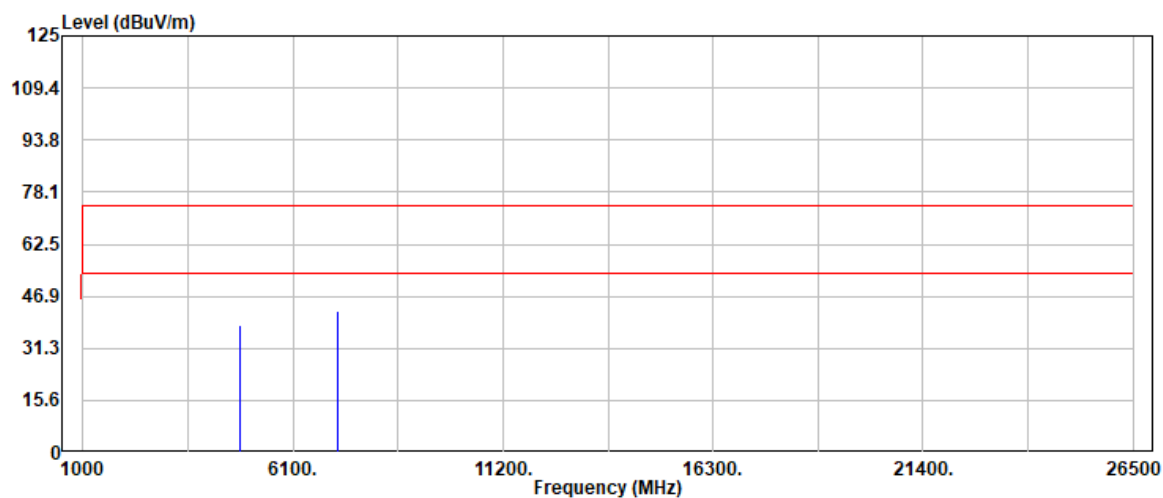
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
30.50	29.61	-3.22	26.39	40.00	-13.61	Peak
88.00	39.62	-16.31	23.31	40.00	-16.69	Peak
164.10	41.80	-11.44	30.36	43.50	-13.14	Peak
246.50	40.42	-11.39	29.03	46.00	-16.97	Peak
351.10	32.71	-8.28	24.43	46.00	-21.57	Peak
387.90	33.22	-7.31	25.91	46.00	-20.09	Peak

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 38 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2402 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



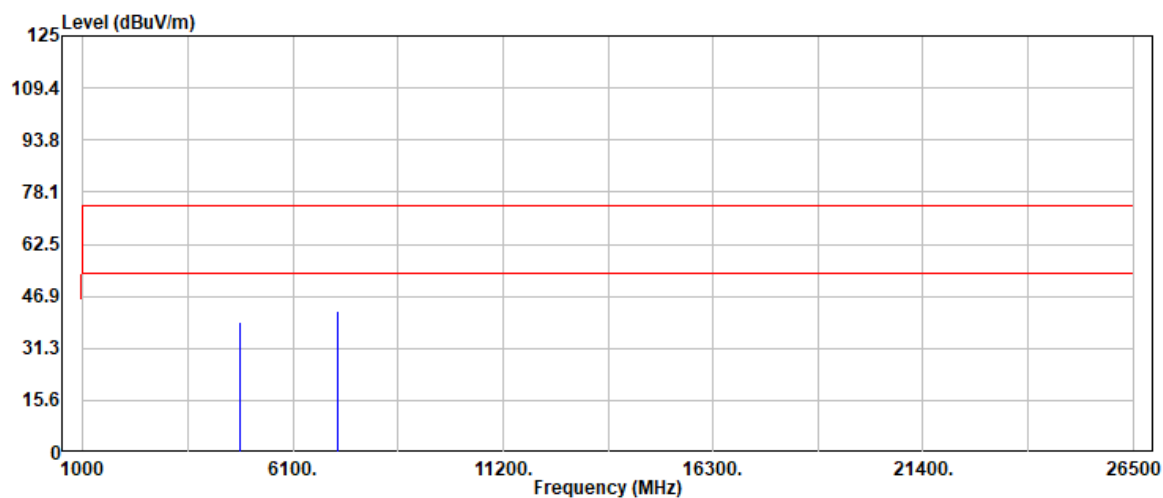
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4804.00	35.64	2.40	38.04	74.00	-35.96	Peak
4804.00	28.31	2.40	30.71	54.00	-23.29	Average
7206.00	33.70	8.96	42.66	74.00	-31.34	Peak
7206.00	26.65	8.96	35.61	54.00	-18.39	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 39 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2402 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



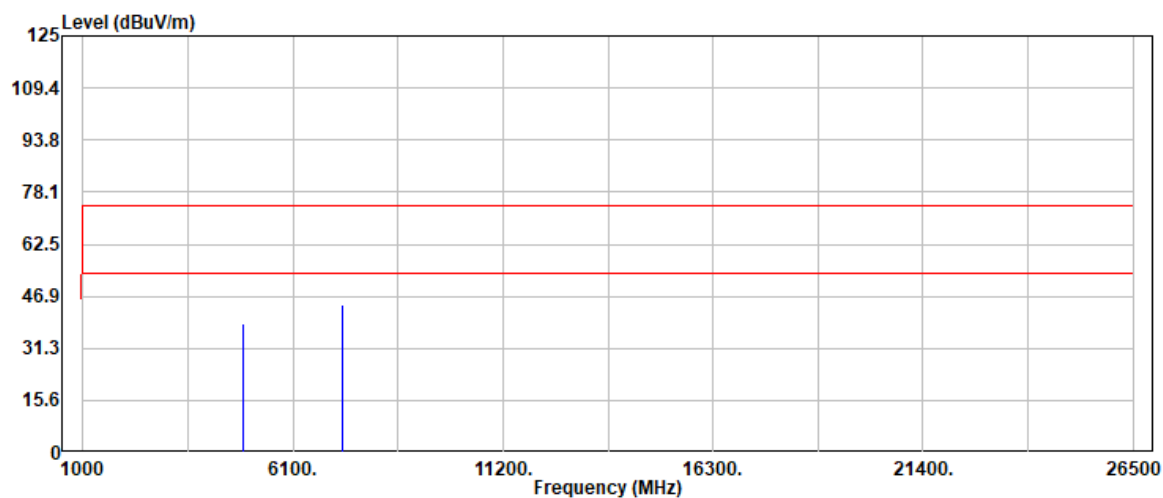
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4804.00	36.56	2.40	38.96	74.00	-35.04	Peak
4804.00	28.27	2.40	30.67	54.00	-23.33	Average
7206.00	33.49	8.96	42.45	74.00	-31.55	Peak
7206.00	26.65	8.96	35.61	54.00	-18.39	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 40 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2440 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-26
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



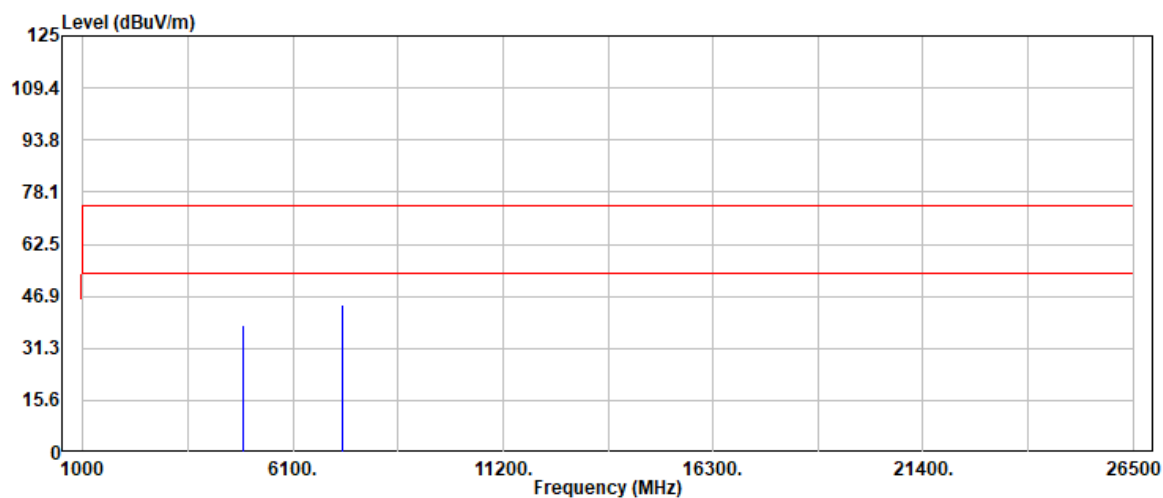
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4880.00	35.89	2.67	38.56	74.00	-35.44	Peak
4880.00	28.45	2.67	31.12	54.00	-22.88	Average
7320.00	35.03	9.36	44.39	74.00	-29.61	Peak
7320.00	26.33	9.36	35.69	54.00	-18.31	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 41 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2440 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-26
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



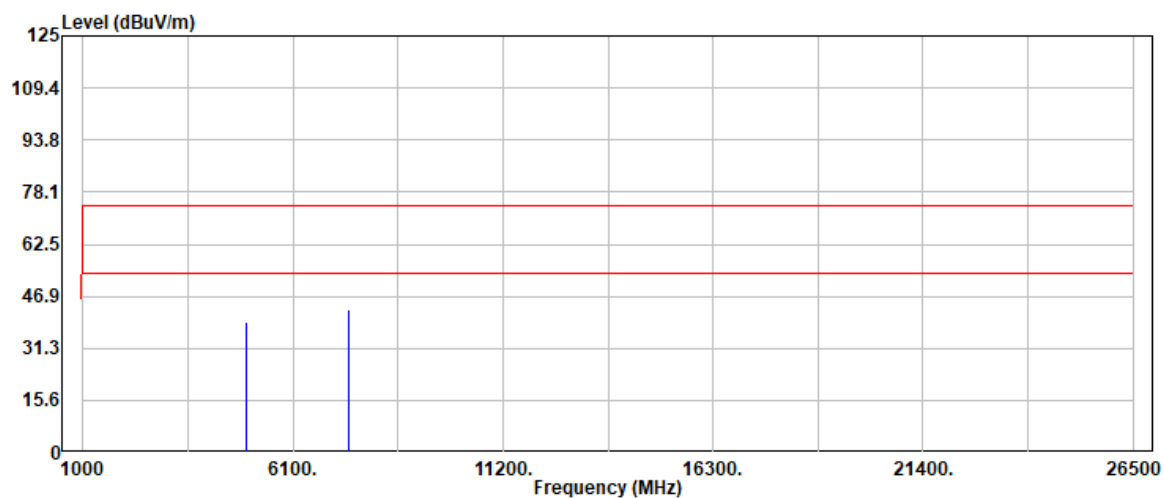
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4880.00	35.44	2.67	38.11	74.00	-35.89	Peak
4880.00	28.65	2.67	31.32	54.00	-22.68	Average
7320.00	34.98	9.36	44.34	74.00	-29.66	Peak
7320.00	26.36	9.36	35.72	54.00	-18.28	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 42 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2480 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



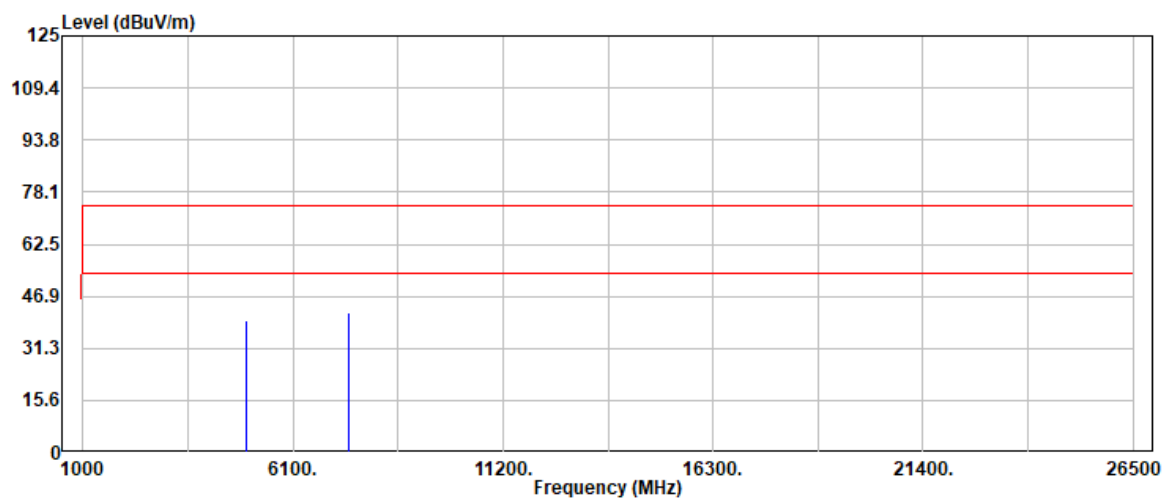
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4960.00	35.73	3.52	39.25	74.00	-34.75	Peak
4960.00	27.76	3.52	31.28	54.00	-22.72	Average
7440.00	33.39	9.46	42.85	74.00	-31.15	Peak
7440.00	26.27	9.46	35.73	54.00	-18.27	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 43 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_1M
Frequency : 2480 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



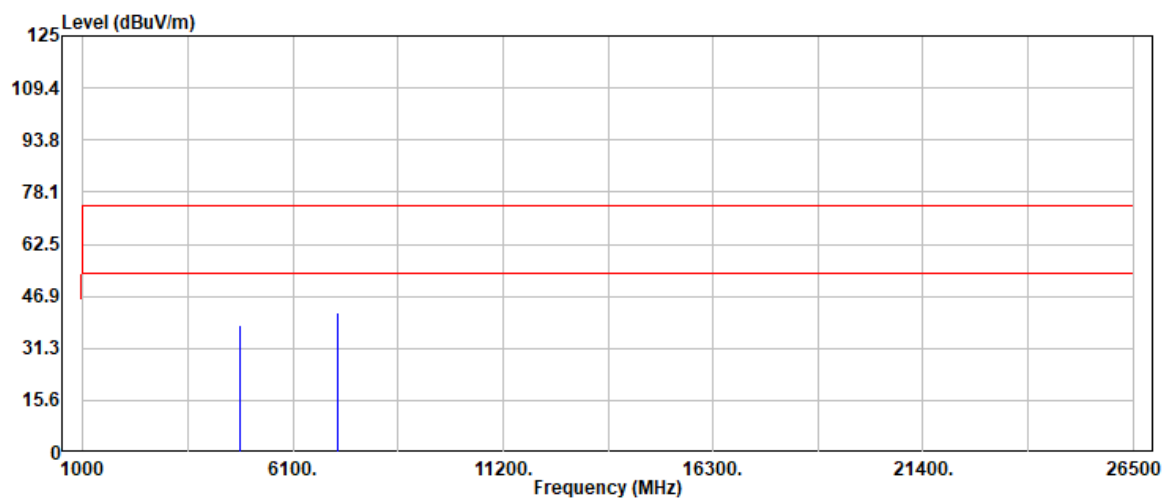
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4960.00	35.88	3.52	39.40	74.00	-34.60	Peak
4960.00	27.59	3.52	31.11	54.00	-22.89	Average
7440.00	32.35	9.46	41.81	74.00	-32.19	Peak
7440.00	26.40	9.46	35.86	54.00	-18.14	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 44 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2402 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



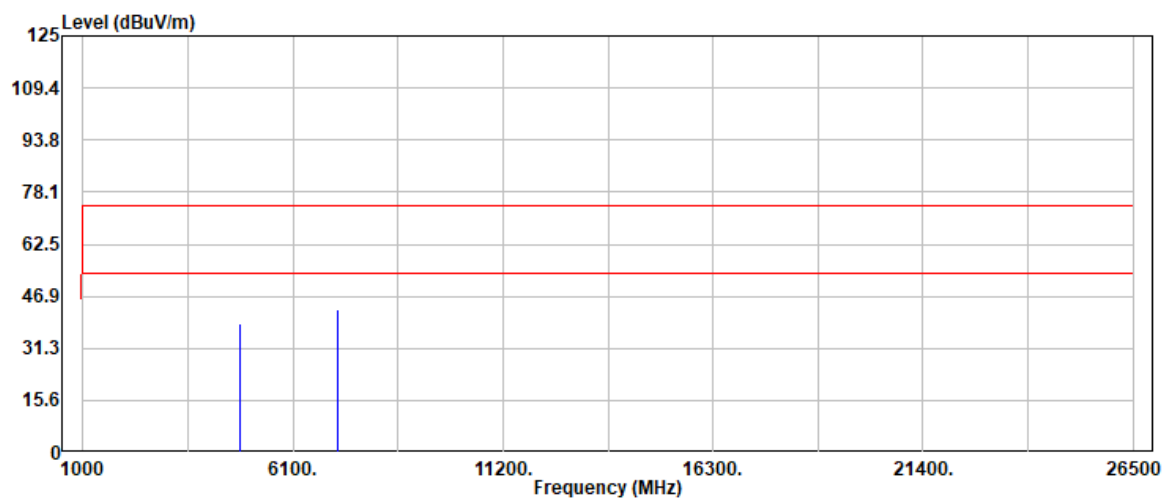
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4804.00	35.69	2.40	38.09	74.00	-35.91	Peak
4804.00	27.90	2.40	30.30	54.00	-23.70	Average
7206.00	33.03	8.96	41.99	74.00	-32.01	Peak
7206.00	26.75	8.96	35.71	54.00	-18.29	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 45 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2402 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



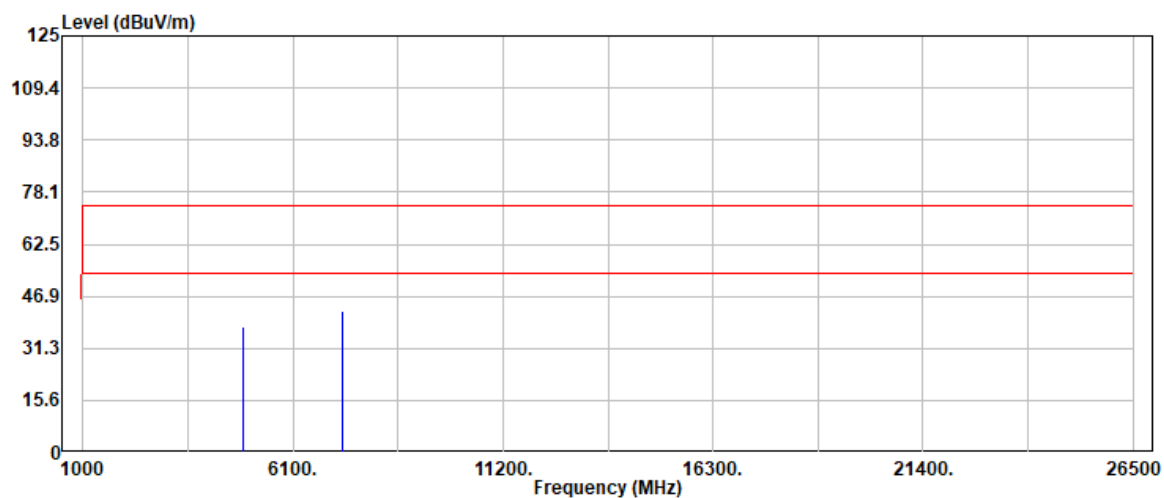
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4804.00	36.14	2.40	38.54	74.00	-35.46	Peak
4804.00	27.70	2.40	30.10	54.00	-23.90	Average
7206.00	33.80	8.96	42.76	74.00	-31.24	Peak
7206.00	27.47	8.96	36.43	54.00	-17.57	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 46 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2440 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-26
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



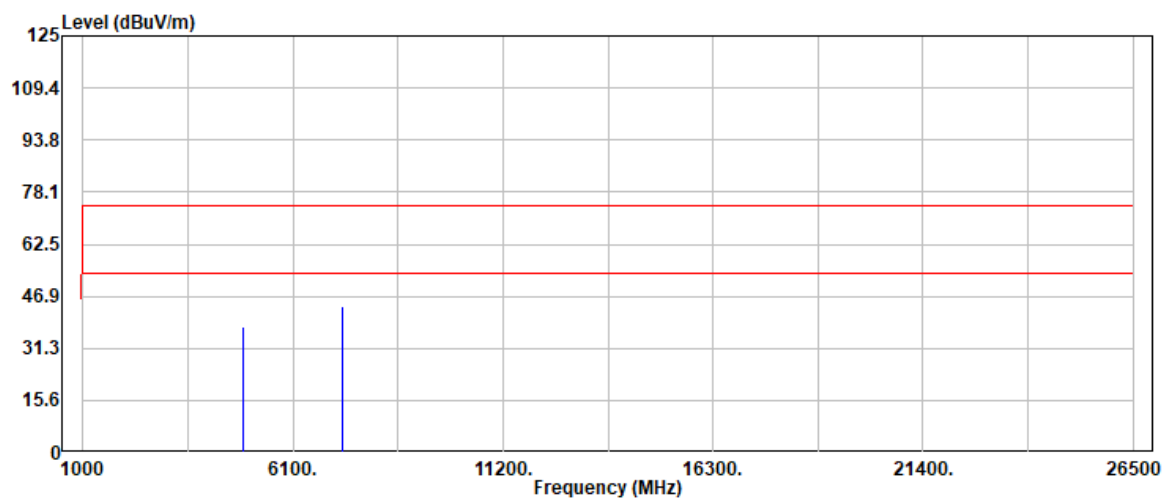
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4880.00	35.17	2.67	37.84	74.00	-36.16	Peak
4880.00	28.59	2.67	31.26	54.00	-22.74	Average
7320.00	33.02	9.36	42.38	74.00	-31.62	Peak
7320.00	26.22	9.36	35.58	54.00	-18.42	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 47 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2440 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-26
Temp./Humi. : 25.4/55
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



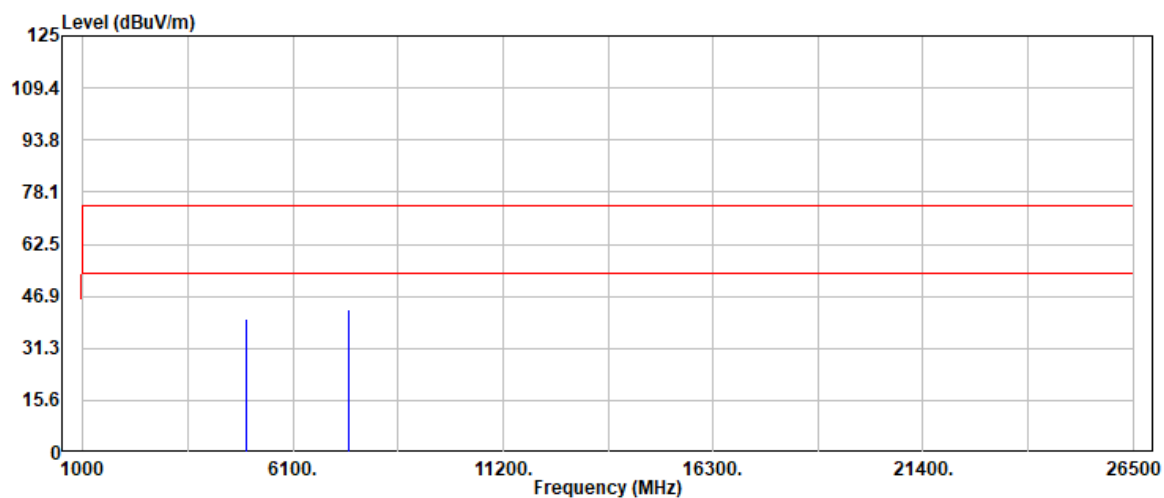
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4880.00	35.10	2.67	37.77	74.00	-36.23	Peak
4880.00	28.44	2.67	31.11	54.00	-22.89	Average
7320.00	34.61	9.36	43.97	74.00	-30.03	Peak
7320.00	26.59	9.36	35.95	54.00	-18.05	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 48 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2480 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



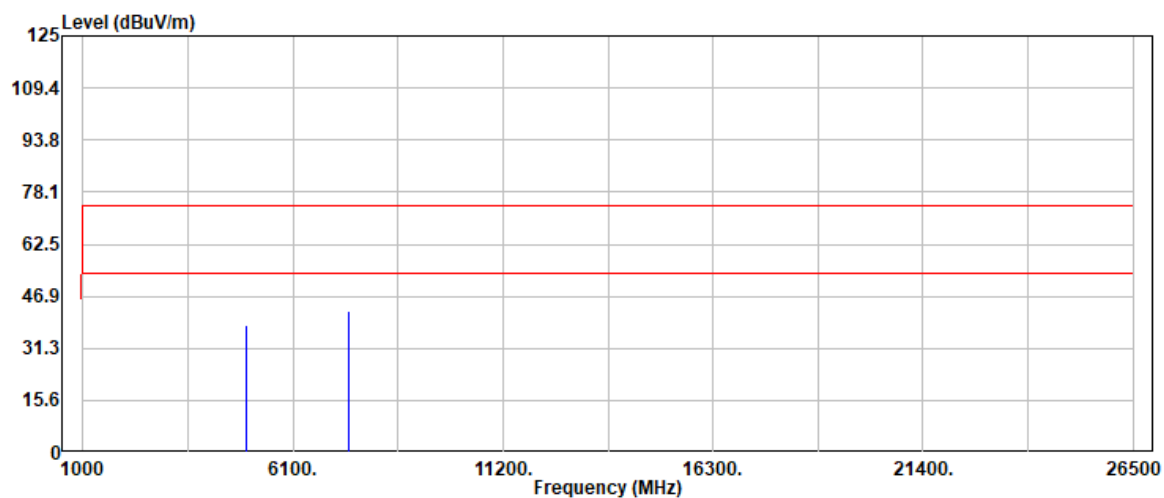
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4960.00	36.52	3.52	40.04	74.00	-33.96	Peak
4960.00	28.04	3.52	31.56	54.00	-22.44	Average
7440.00	33.47	9.46	42.93	74.00	-31.07	Peak
7440.00	26.69	9.46	36.15	54.00	-17.85	Average

Project No.: TM-2502000034P
Report No.: TMWK2506002314KR

Page: 49 / 49
Rev.: 00

Project No : TM-2502000034P
Operation Band : BLE_2M
Frequency : 2480 MHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-06-25
Temp./Humi. : 25.4/55
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
4960.00	34.60	3.52	38.12	74.00	-35.88	Peak
4960.00	28.10	3.52	31.62	54.00	-22.38	Average
7440.00	33.20	9.46	42.66	74.00	-31.34	Peak
7440.00	26.10	9.46	35.56	54.00	-18.44	Average

- End of Test Report -