

Project No: TM-2402000256P
Report No.: TMWK2406002106KR

FCC ID: JNF-BRC-RS95

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard	FCC Part 15.247
Product name	Wireless Communication Cradle
Brand Name	ZEBEX
Model No.	RS-95
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: 2013 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	July 3, 2024	Initial Issue	ALL	Peggy Tsai
01	July 9, 2024	See the following Note Rev. (01)	P. 7, 21, 48, 49	Peggy Tsai
02	July 15, 2024	See the following Note Rev. (02)	P. A-3	Peggy Tsai

Note:

Rev. (01)

1. Modify instrument calibration in section 1.6.
2. Modify test procedure in section 4.2.2.
3. Modify TX test data in section 4.6.4.

Rev. (02)

1. Modify conducted emission set up photo.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	ZEBEX INDUSTRIES INC. B1F.-1, No. 207, Sec. 3, Beixin Rd, Xindian Dist, New Taipei City 23143, Taiwan
Manufacturer	ZEBEX INDUSTRIES INC. B1F.-1, No. 207, Sec. 3, Beixin Rd, Xindian Dist, New Taipei City 23143, Taiwan
Equipment	Wireless Communication Cradle
Model	RS-95
Model Discrepancy	N/A
Brand Name	ZEBEX
Received Date	February 22, 2024
Date of Test	June 27 ~ July 1, 2024
Power Supply	Power from Adapter BILLION / BA018-050200HXX I/P: 100-240VAC, 0.5A, 50/60Hz O/P: 5.0VDC, 2.0A
EUT Serial #	P90PH000001
HW Version	02R-S95001-024
SW Version	Model:Z319xCR (Ha2.06)U Ver:03.01 Date:08/21/2023

Remark:

- For more details, please refer to the User's manual of the EUT.
- Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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: 2013 clause 5.6.1 Table 4 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 Gain	Gain: 2 dBi
Antenna Connector	N/A

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	± 2.213 dB
Channel Bandwidth	± 2.7 %
RF output power (Power Meter + Power sensor)	± 0.243 dB
Power Spectral density	± 2.739 dB
Conducted Bandedge	± 2.739 dB
Conducted Spurious Emission	± 2.742 dB
Radiated Emission_9kHz-30MHz	± 3.761 dB
Radiated Emission_30MHz-200MHz	± 3.473 dB
Radiated Emission_200MHz-1GHz	± 3.946 dB
Radiated Emission_1GHz-6GHz	± 4.797 dB
Radiated Emission_6GHz-18GHz	± 4.803 dB
Radiated Emission_18GHz-26GHz	± 3.459 dB
Radiated Emission_26GHz-40GHz	± 3.297 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	Ben Yang	-
Radiation	Ray Li	-
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
Power Sensor	Anritsu	MA2411B	1911387	2023-07-25	2024-07-24
Power Meter	Anritsu	ML2496A	2136002	2023-11-16	2024-11-15
EXA Signal Analyzer	Keysight	N9010B	MY55460167	2024-01-03	2025-01-02
Software	Radio Test Software Ver. 21 & E3-Ver: 6.11-20180413				

966A Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2024-03-15	2025-03-14
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-08	2024-12-07
Active Loop Antenna	SCHWARZBEC K	FMZB 1513-60	1513-60-028	2023-12-13	2024-12-12
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07
Preamplifier	EMEC	EM330	060609	2024-02-21	2025-02-20
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-02-21	2025-02-20
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-12-28	2024-12-27
Preamplifier	HP	8449B	3008A00965	2023-12-22	2024-12-21
Cable	EMCI	EMC101G	221213+221011+221012	2023-10-17	2024-10-16
Attenuator	Mini-Circuits	BW-S9W5	BWS9W5-09-966A-01	2024-02-07	2025-02-06
High Pass Filters	Titan Microwave	T04H30001800070S01	22011402-4	2024-06-12	2025-06-13
Horn Antenna	SCHWARZBEC K	BBHA9170	1047	2023-12-13	2024-12-12
Pre-Amplifier	EMCI	EMC184045SE	980860	2023-12-12	2024-12-11
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
Site Validation	CCS	966A	N/A	2023-07-10	2024-07-09
Software	e3 V9-210616c				

Remark:

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

AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2024-06-14	2025-06-13
LISN	TESEQ	LN2-16N	22012	2024-02-29	2025-02-27
Cable	EMCI	CFD300-NL	CERF	2024-06-27	2025-06-26
Software	e3 V6-110812				

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

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

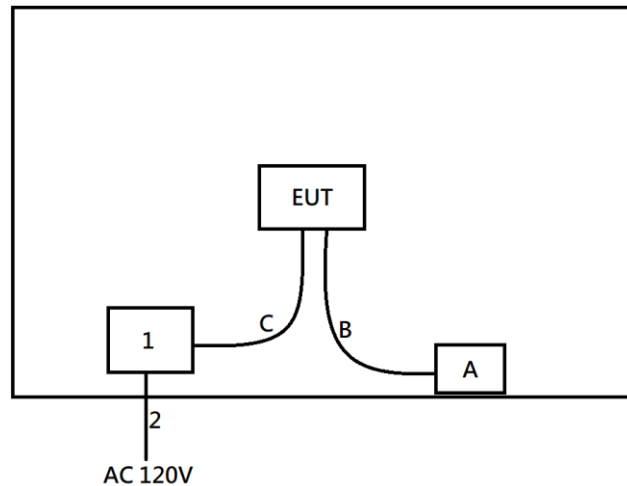
Support Equipment (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(L)	Lenovo	X260	N/A	N/A
2	RJ45 to USB Cable	WHALETURN	USB cable for In counter scanner	N/A	N/A

Support Equipment (Conduction)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
A	Adapter	BILLION	BA018-050200HXX	N/A	N/A
B	Type C Cable	WHALETURN	USB A/M TO Type C/M L=1.5M	N/A	N/A
C	RJ45 to USB Cable	WHALETURN	USB cable for In counter scanner	N/A	N/A

Support Equipment (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
A	Adapter	BILLION	BA018-050200HXX	N/A	N/A
B	Type C Cable	WHALETURN	USB A/M TO Type C/M L=1.5M	N/A	N/A
C	RJ45 to USB Cable	WHALETURN	USB cable for In counter scanner	N/A	N/A

1.8 TEST SET UP DIAGRAM

RSE:



1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074.

2. TEST SUMMERY

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(a)(2)	4.2	6 dB Bandwidth	Pass
-	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(3)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Spurious Emission	Pass
15.247(d) 15.205, 15.209	4.6	Radiation Band Edge	Pass
15.247(d) 15.205, 15.209	4.6	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 Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT Power by Adapter
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 Adapter
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 Adapter
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.
3. 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

3.3 EUT DUTY CYCLE

Temperature: 23.2°C

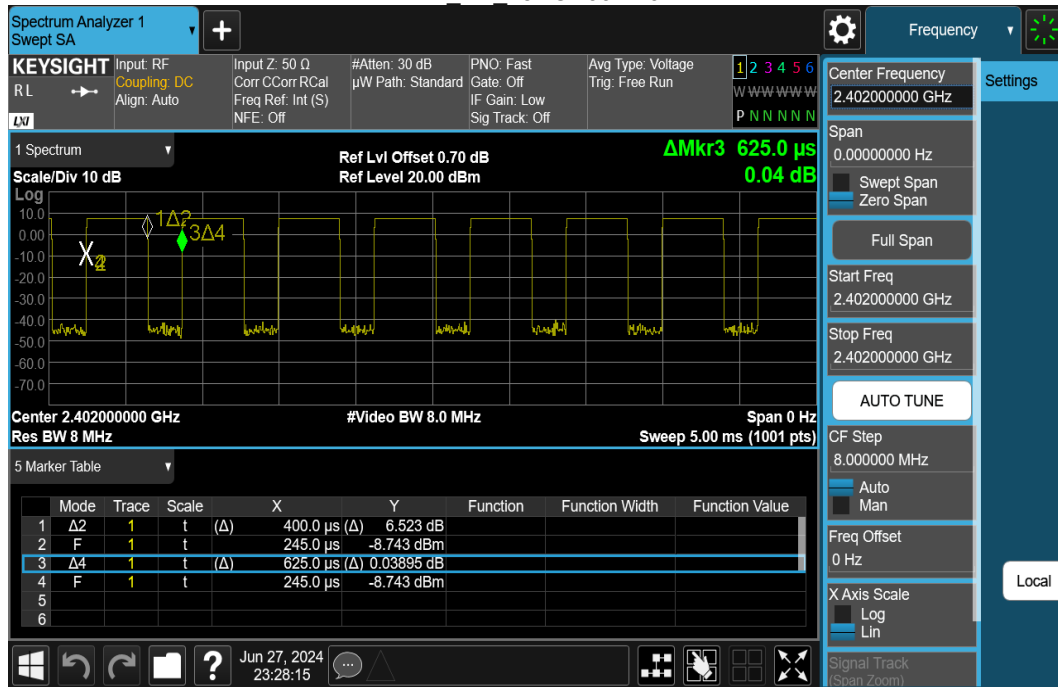
Test date: June 27, 2024

Humidity: 57% RH

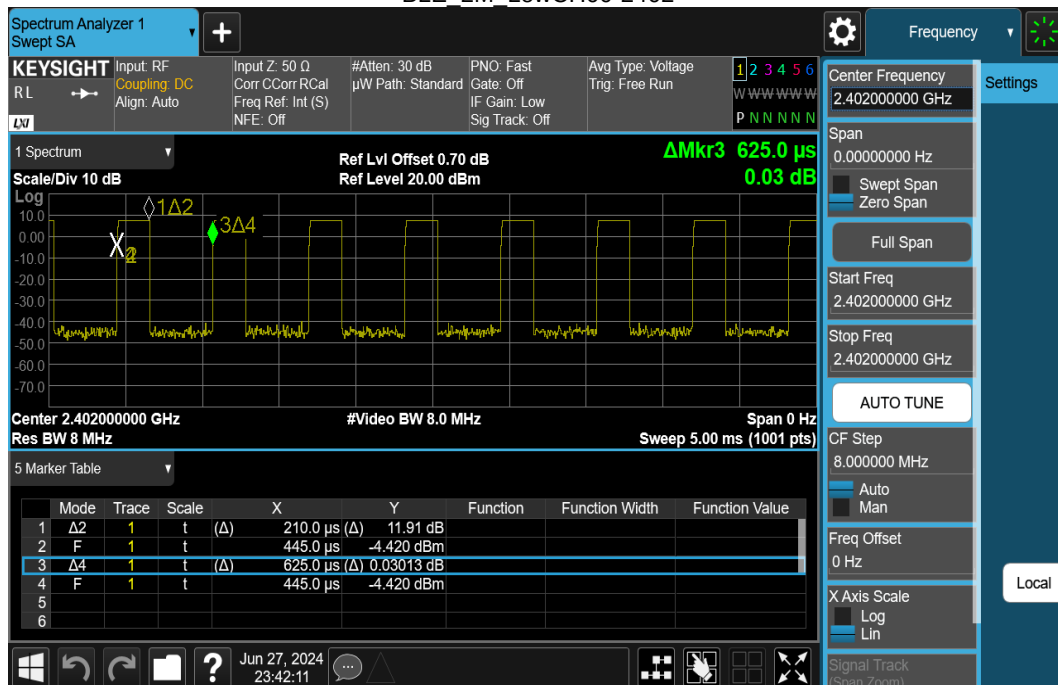
Tested by: Marco Chan

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	64.00	1.94	2.50	3.00
BLE 2M	33.60	4.74	4.76	5.00

BLE_1M_LowCH00-2402



BLE_2M_LowCH00-2402



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a),

Frequency Range (MHz)	Limits(dB μ V)	
	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

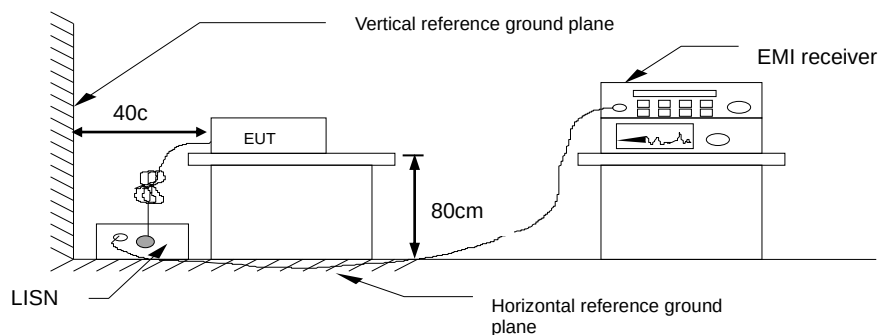
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

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.

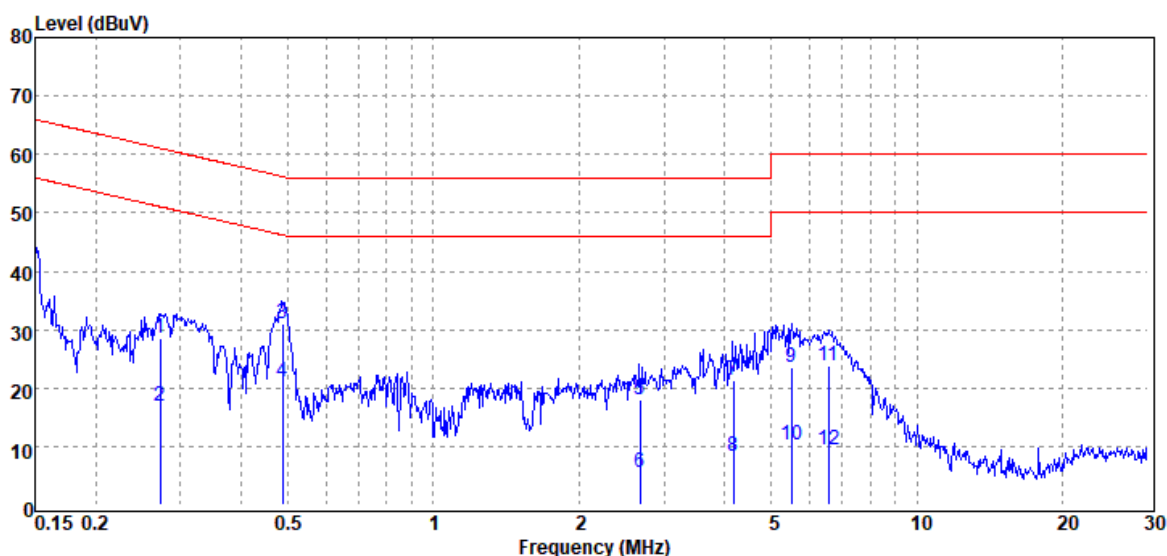
4.1.3 Test Setup



4.1.4 Test Result

Project No : TM-2402000256P
Operation Mode : BLE
Test Chamber : Conduction
Probe : LINE
Note :

Test Date : 2024-06-28
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
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
0.272	QP	28.34	0.12	28.46	61.04	-32.58
0.272	Average	16.65	0.12	16.77	51.04	-34.27
0.488	QP	30.96	0.11	31.07	56.20	-25.13
0.488	Average	20.84	0.11	20.95	46.20	-25.25
2.672	QP	17.83	0.17	18.00	56.00	-38.00
2.672	Average	5.29	0.17	5.46	46.00	-40.54
4.168	QP	21.14	0.21	21.35	56.00	-34.65
4.168	Average	8.01	0.21	8.22	46.00	-37.78
5.502	QP	23.40	0.25	23.65	60.00	-36.35
5.502	Average	10.01	0.25	10.26	50.00	-39.74
6.555	QP	23.43	0.27	23.70	60.00	-36.30
6.555	Average	9.25	0.27	9.52	50.00	-40.48

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

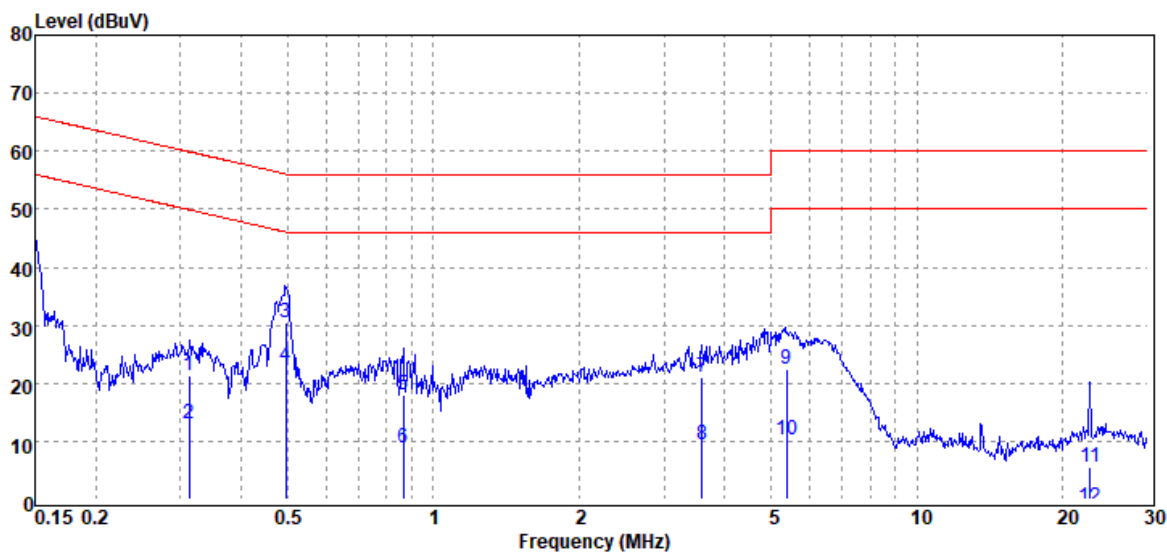
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2402000256P
Operation Mode : BLE
Test Chamber : Conduction
Probe : NEUTRAL
Note :

Test Date : 2024-06-28
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
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
0.312	QP	21.28	0.08	21.36	59.91	-38.55
0.312	Average	12.81	0.08	12.89	49.91	-37.02
0.495	QP	30.34	0.08	30.42	56.08	-25.66
0.495	Average	22.96	0.08	23.04	46.08	-23.04
0.867	QP	17.82	0.09	17.91	56.00	-38.09
0.867	Average	8.78	0.09	8.87	46.00	-37.13
3.598	QP	20.95	0.18	21.13	56.00	-34.87
3.598	Average	9.22	0.18	9.40	46.00	-36.60
5.381	QP	22.33	0.22	22.55	60.00	-37.45
5.381	Average	9.95	0.22	10.17	50.00	-39.83
22.832	QP	5.03	0.41	5.44	60.00	-54.56
22.832	Average	-1.82	0.41	-1.41	50.00	-51.41

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

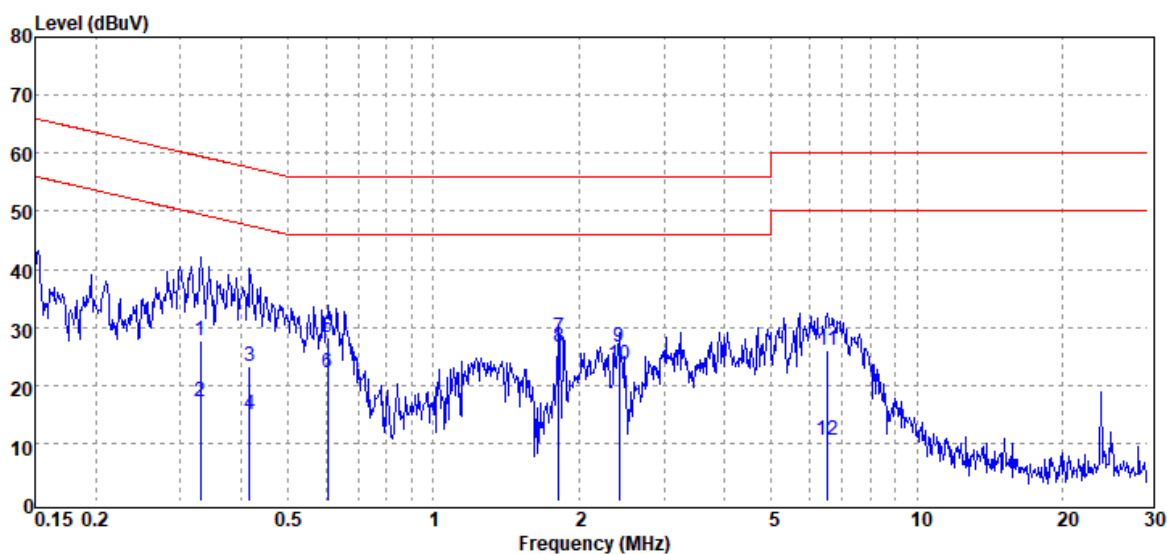
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2402000256P
Operation Mode : BLE
Test Chamber : Conduction
Probe : LINE
Note :

Test Date : 2024-07-01
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 240V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.329	QP	27.68	0.11	27.79	59.47	-31.68
0.329	Average	17.00	0.11	17.11	49.47	-32.36
0.417	QP	23.01	0.11	23.12	57.51	-34.39
0.417	Average	14.78	0.11	14.89	47.51	-32.62
0.605	QP	27.99	0.11	28.10	56.00	-27.90
0.605	Average	22.14	0.11	22.25	46.00	-23.75
1.814	QP	28.04	0.15	28.19	56.00	-27.81
1.814	Average	26.34	0.15	26.49	46.00	-19.51
2.420	QP	26.42	0.17	26.59	56.00	-29.41
2.420	Average	23.22	0.17	23.39	46.00	-22.61
6.542	QP	25.70	0.27	25.97	60.00	-34.03
6.542	Average	10.23	0.27	10.50	50.00	-39.50

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

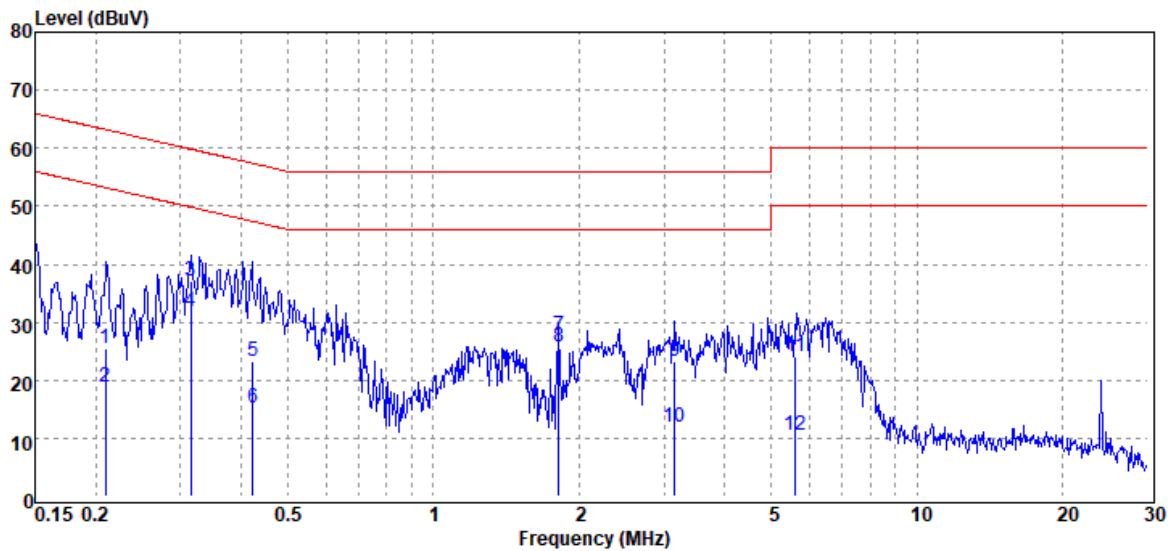
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2402000256P
Operation Mode : BLE
Test Chamber : Conduction
Probe : NEUTRAL
Note :

Test Date : 2024-07-01
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 240V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.210	QP	25.50	0.09	25.59	63.22	-37.63
0.210	Average	18.62	0.09	18.71	53.22	-34.51
0.315	QP	36.99	0.08	37.07	59.83	-22.76
0.315	Average	31.73	0.08	31.81	49.83	-18.02
0.423	QP	23.04	0.08	23.12	57.39	-34.27
0.423	Average	15.09	0.08	15.17	47.39	-32.22
1.816	QP	27.44	0.13	27.57	56.00	-28.43
1.816	Average	25.75	0.13	25.88	46.00	-20.12
3.154	QP	23.18	0.16	23.34	56.00	-32.66
3.154	Average	11.61	0.16	11.77	46.00	-34.23
5.613	QP	23.97	0.22	24.19	60.00	-35.81
5.613	Average	10.33	0.22	10.55	50.00	-39.45

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

Note: 2. Margin= Actual FS - Limit

4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH(99%)

4.2.1 Test Limit

According to §15.247(a)(2),

6 dB Bandwidth :

Limit	Shall be at least 500kHz
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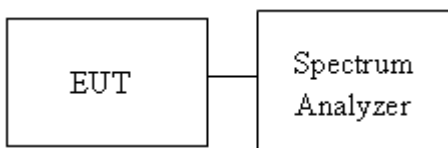
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 and ANSI C63.10: 2013 clause 6.9.2.

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

Temperature: 23.2°C

Test date: June 27, 2024

Humidity: 57% RH

Tested by: Marco Chan

6dB BANDWIDTH

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7255	≥ 0.5	PASS
2442	0.7264	≥ 0.5	PASS
2480	0.7171	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.261	≥ 0.5	PASS
2442	1.259	≥ 0.5	PASS
2480	1.258	≥ 0.5	PASS

BANDWIDTH 99%

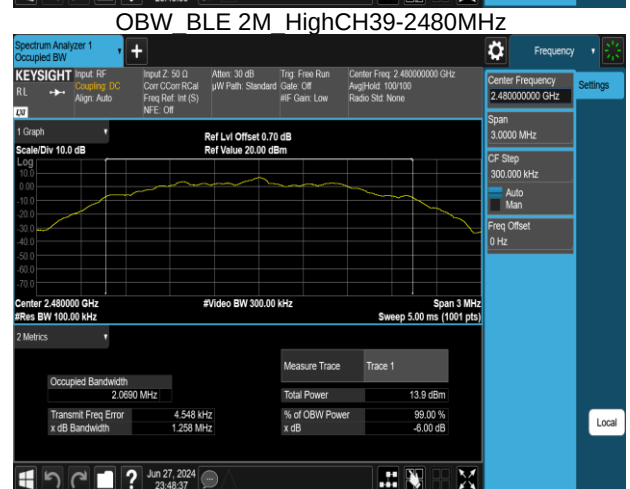
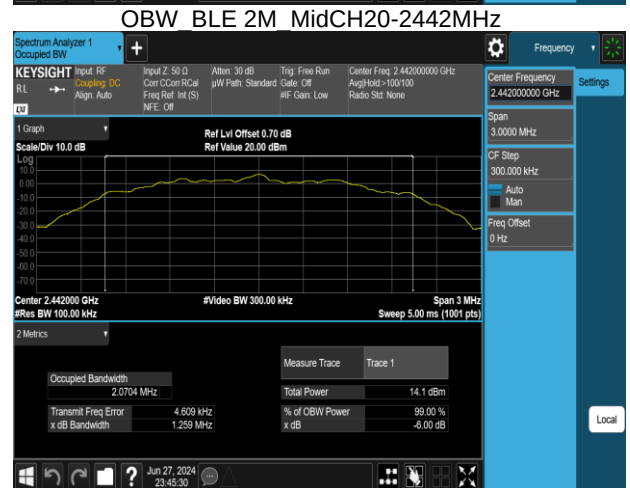
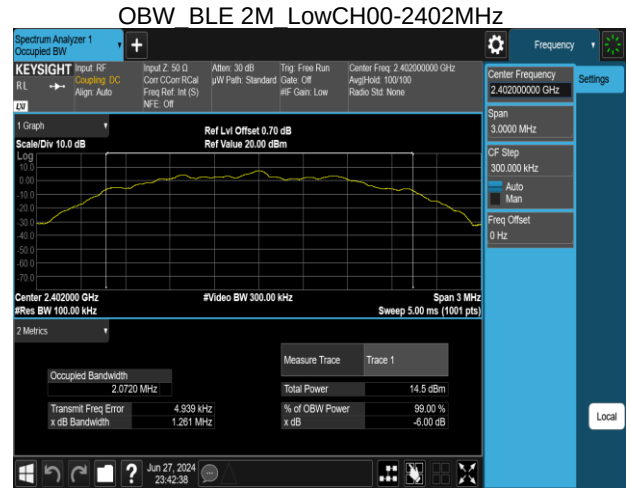
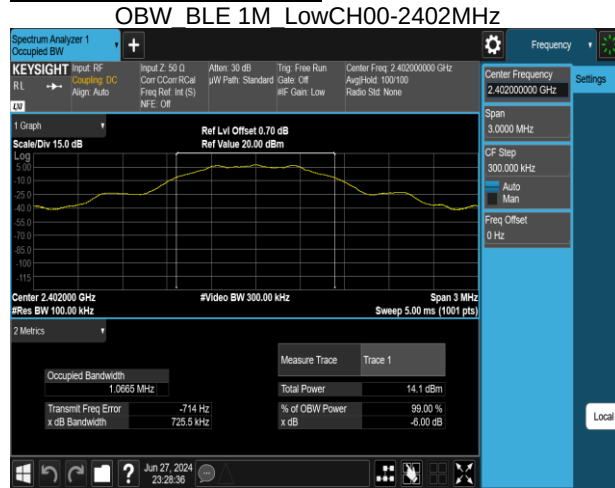
BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0337
2442	1.0321
2480	1.0302

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0729
2442	2.0696
2480	2.0679

Test Data 6dB BANDWIDTH



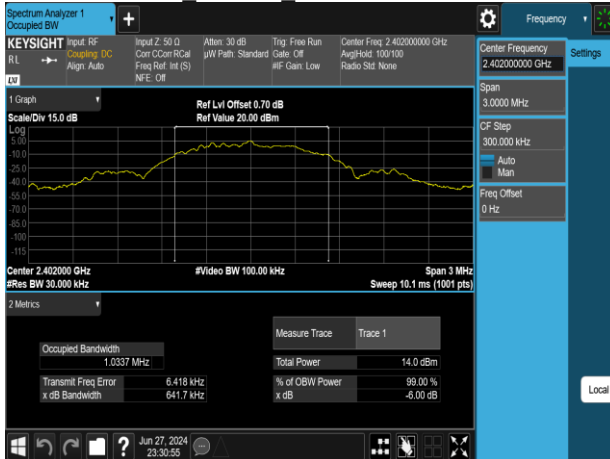


Report No.: TMWK2406002106KR

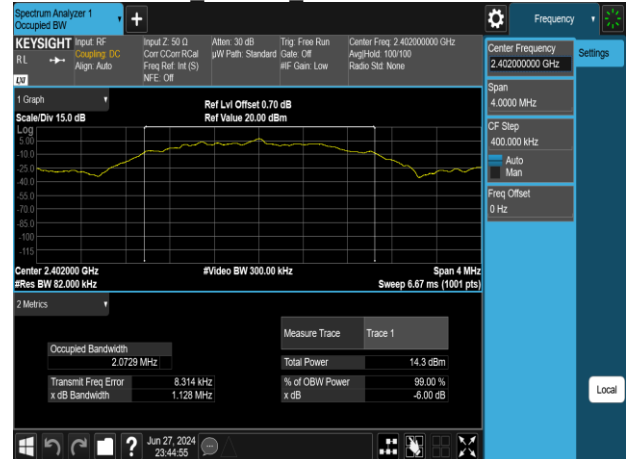
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BANDWIDTH 99%

IC OBW BLE 1M LowCH00-2402MHz



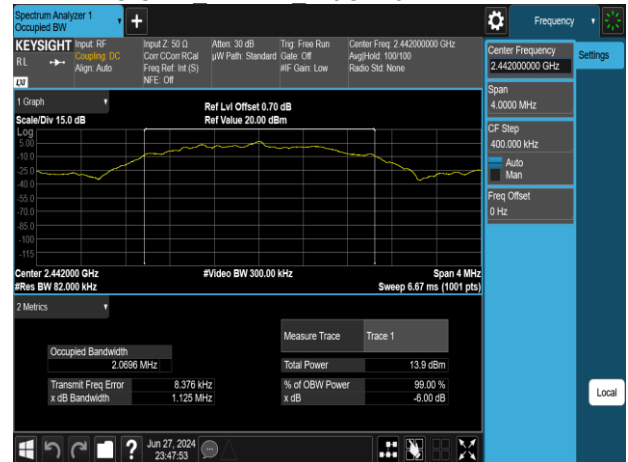
IC OBW BLE 2M LowCH00-2402MHz



IC OBW BLE 1M MidCH20-2442MHz



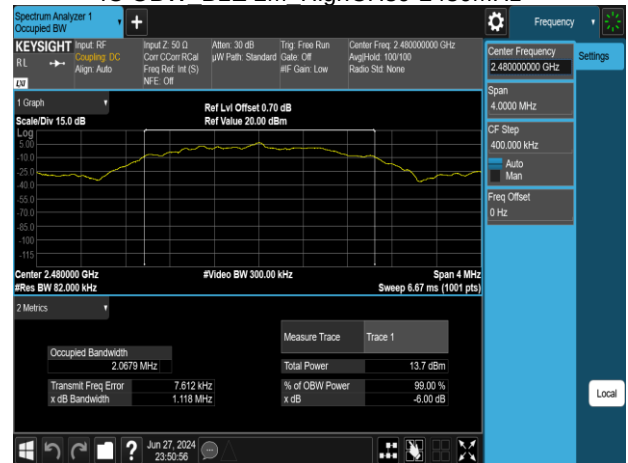
IC OBW BLE 2M MidCH20-2442MHz



IC OBW BLE 1M HighCH39-2480MHz



IC OBW BLE 2M HighCH39-2480MHz



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)(3),

Peak output power :

FCC

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

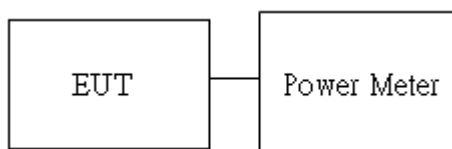
Average output power : For reporting purposes only.

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



4.3.4 Test Result

Temperature: 23.2°C

Test date: June 27, 2024

Humidity: 57% RH

Tested by: Marco Chan

Peak & Average output power :

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	7.37	30
Mid	2442	default	7.15	30
High	2480	default	6.81	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	7.20	30
Mid	2442	default	7.00	30
High	2480	default	6.64	30

***Note:**

1.Measured by power meter, cable loss 0.7 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 set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	7.37	30
Mid	2442	default	7.16	30
High	2480	default	6.79	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	7.36	30
Mid	2442	default	7.15	30
High	2480	default	6.76	30

***Note:**

1. Measured by power meter, cable loss 0.7 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e) ,

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

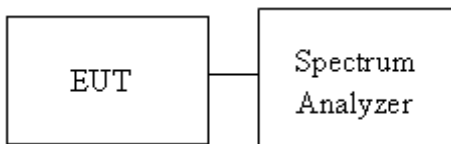
Limit	☒ Antenna not exceed 6 dBi : 8dBm ☐ Antenna with DG greater than 6 dBi [Limit = 8 – (DG – 6)] ☐ Point-to-point operation :
-------	---

4.4.2 Test Procedure

Test method Refer as KDB 558074 D01

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss was compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 23.2°C

Test date: June 27, 2024

Humidity: 57% RH

Tested by: Marco Chan

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-7.57	8	PASS
2442	-8.00	8	PASS
2480	-8.37	8	PASS

***Note:**

1.cable loss as 0.7dB that offsets in the spectrum

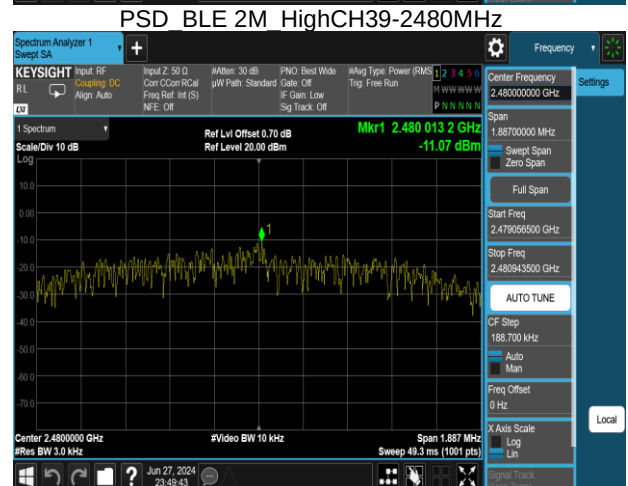
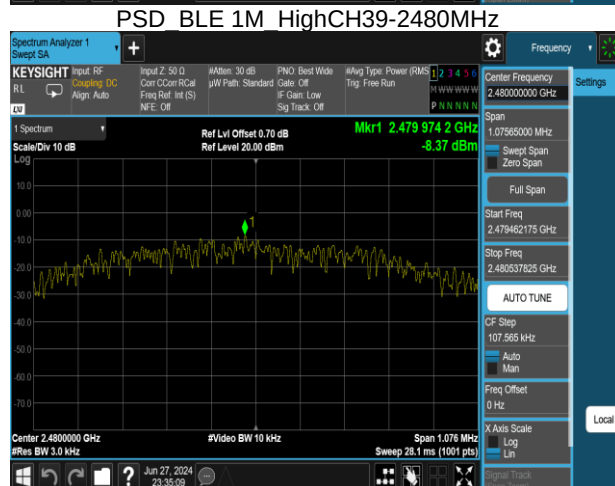
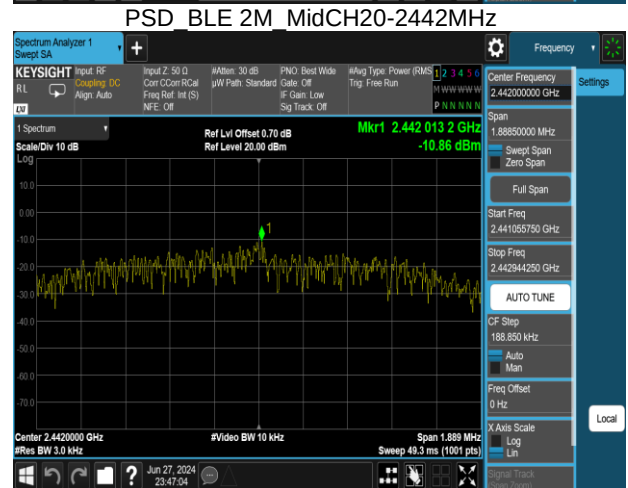
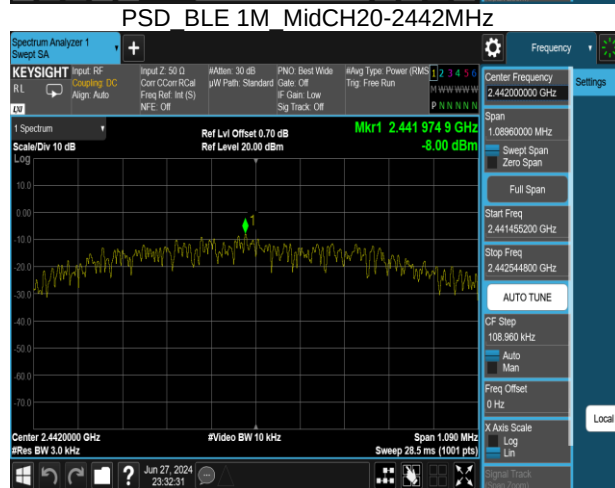
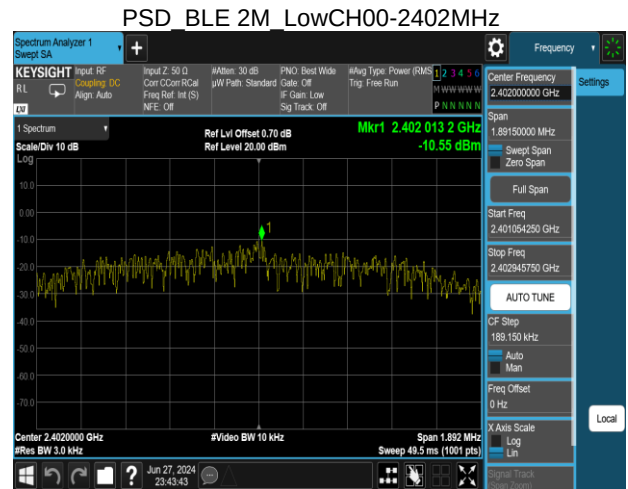
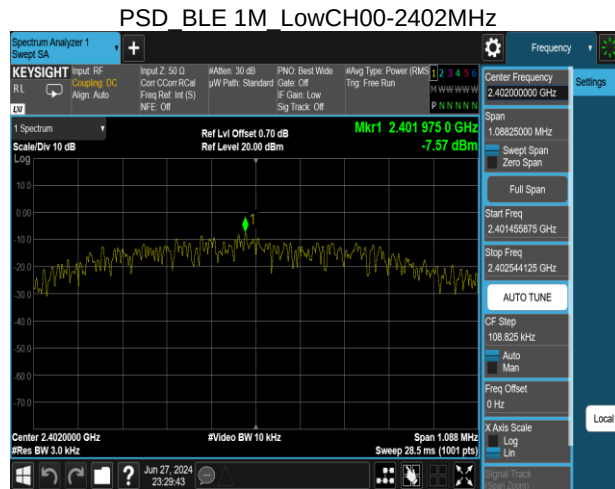
BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-10.55	8	PASS
2442	-10.86	8	PASS
2480	-11.07	8	PASS

***Note:**

1.cable loss as 0.7dB that offsets in the spectrum

Test Data



4.5 CONDUCTED BAND EDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d),

FCC: In any 100 kHz bandwidth outside the authorized frequency band,

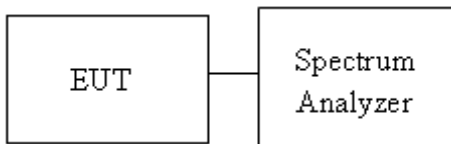
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as KDB 558074 D01

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

4.5.3 Test Setup



4.5.4 Test Result

Temperature: 23.2°C

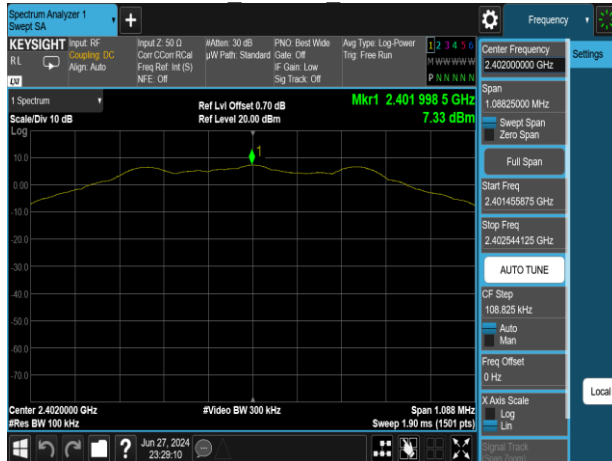
Test date: June 27, 2024

Humidity: 57% RH

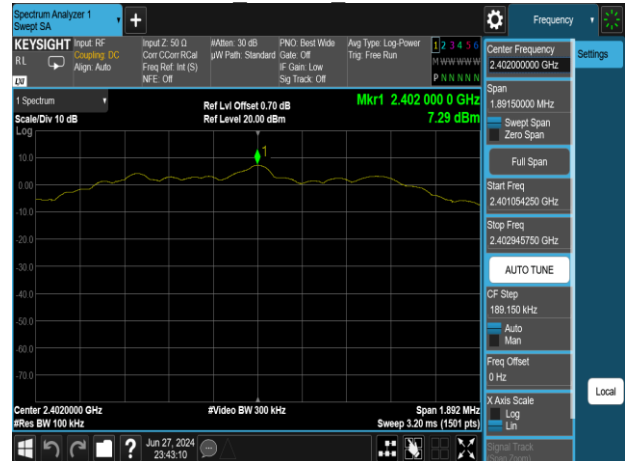
Tested by: Marco Chan

Test Data Reference Level

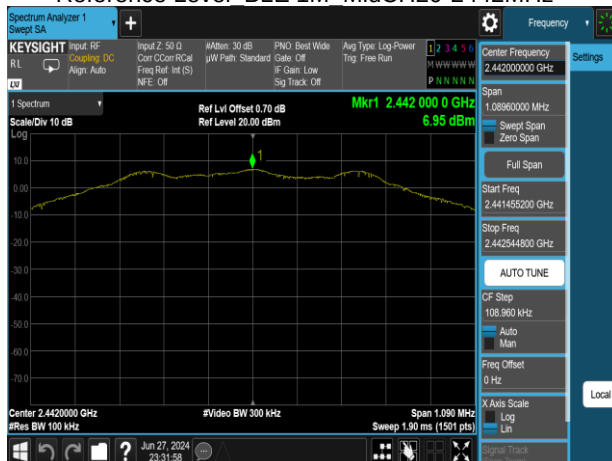
Reference Level BLE 1M LowCH00-2402MHz



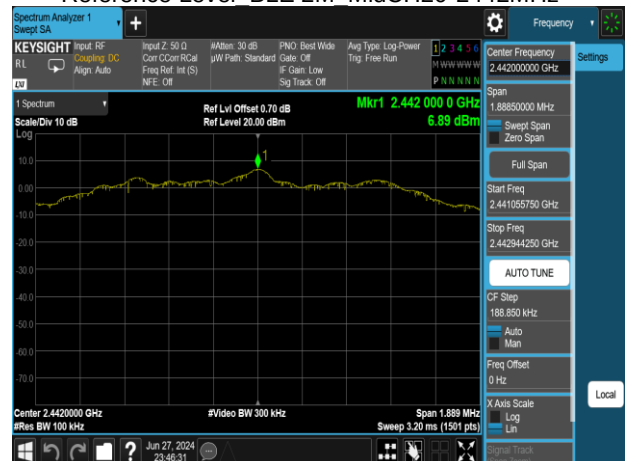
Reference Level BLE 2M LowCH00-2402MHz



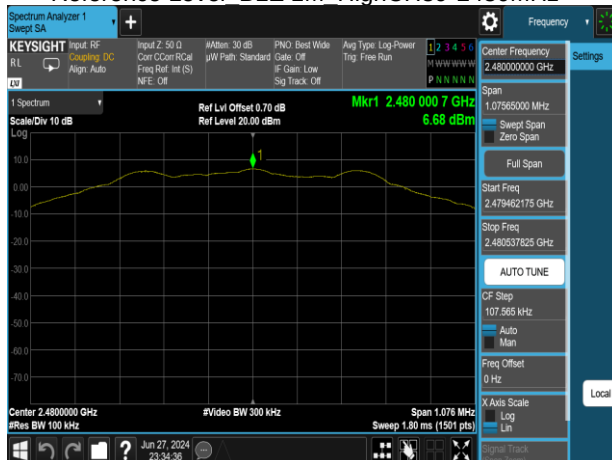
Reference Level BLE 1M MidCH20-2442MHz



Reference Level BLE 2M MidCH20-2442MHz



Reference Level BLE 1M HighCH39-2480MHz



Reference Level BLE 2M HighCH39-2480MHz

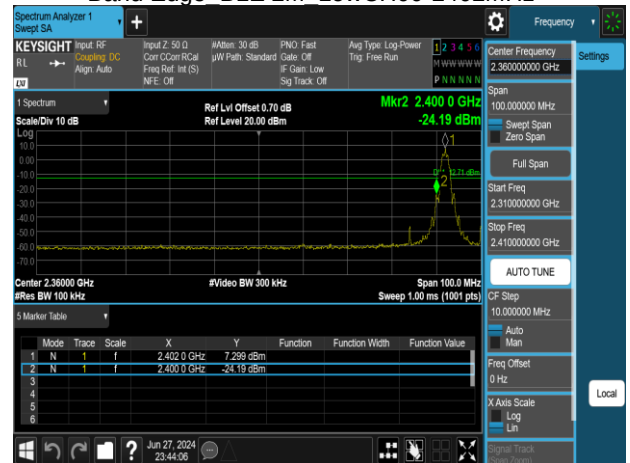


Band Edge

Band Edge BLE 1M LowCH00-2402MHz



Band Edge BLE 2M LowCH00-2402MHz



Band Edge BLE 1M HighCH39-2480MHz



Band Edge BLE 2M HighCH39-2480MHz

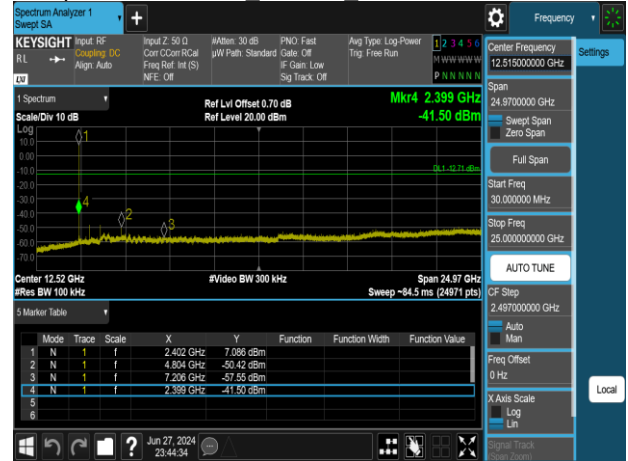


Spurious Emission

Spurious Emission BLE 1M LowCH00-2402MHz



Spurious Emission BLE 2M LowCH00-2402MHz



Spurious Emission BLE 1M MidCH20-2442MHz



Spurious Emission BLE 2M MidCH20-2442MHz



Spurious Emission BLE 1M HighCH39-2480MHz



Spurious Emission BLE 2M HighCH39-2480MHz



4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 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.

4.6.2 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: 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*RBW, Sweep = Auto,

Detector = Peak, Trace = Max hold.

- (3) Above 1GHz :

(3.1) For Peak measurement : RBW = 1MHz, VBW $\geq$ 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.

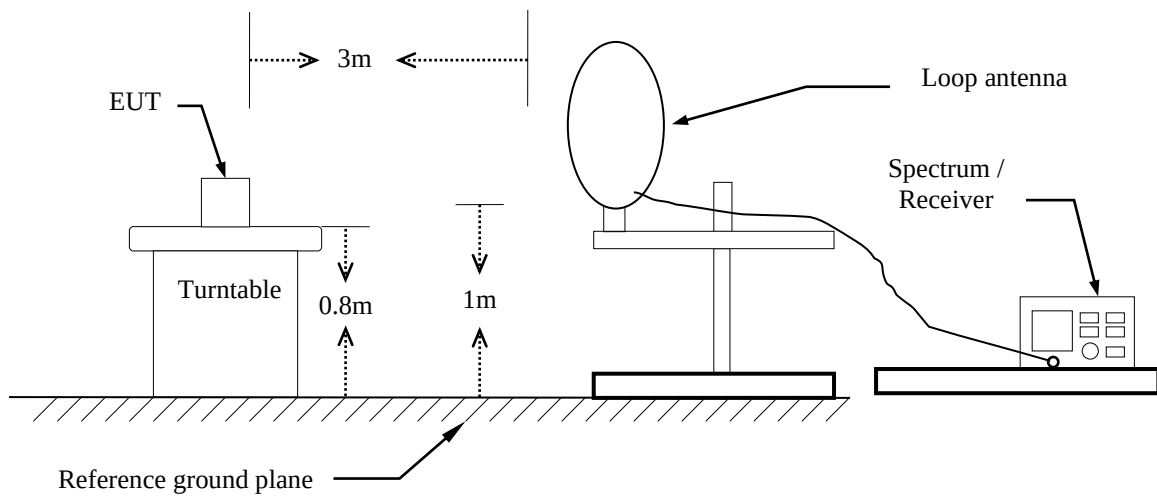
6. Data result :

Actual FS=Spectrum Reading Level + Factor

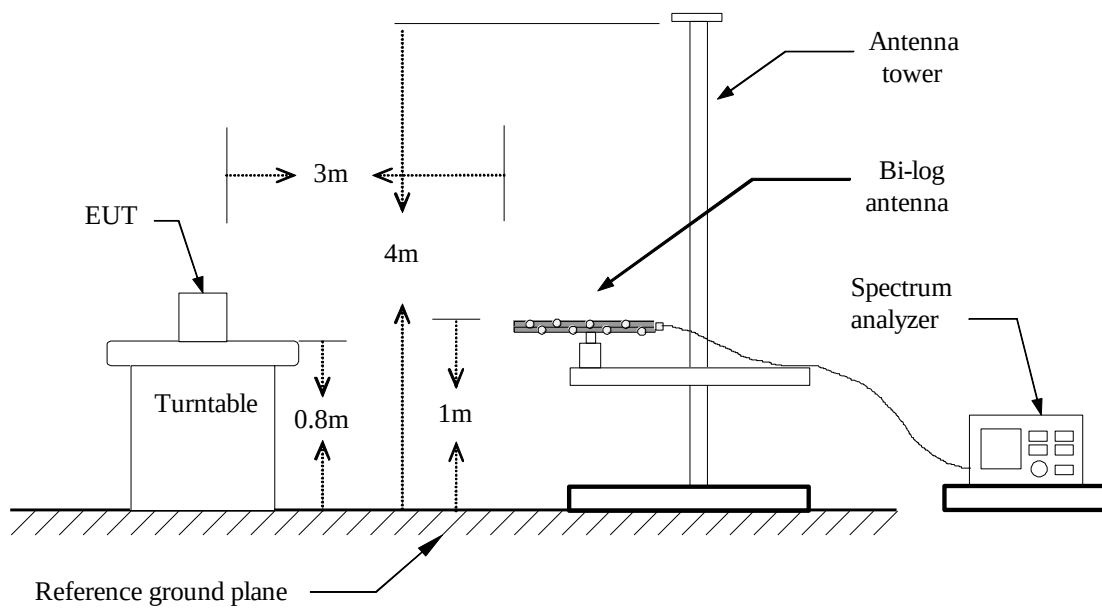
Margin=Actual FS- Limit

4.6.3 Test Setup

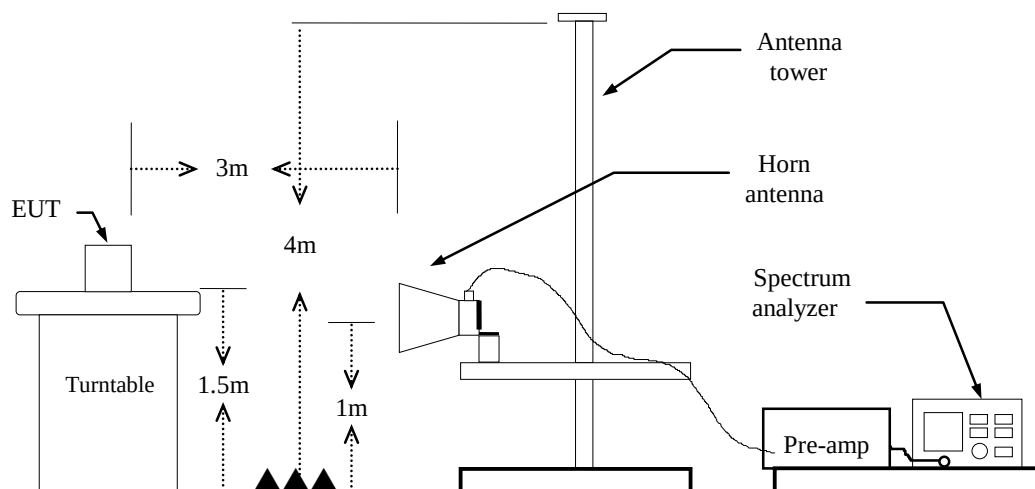
9kHz ~ 30MHz



30MHz ~ 1GHz



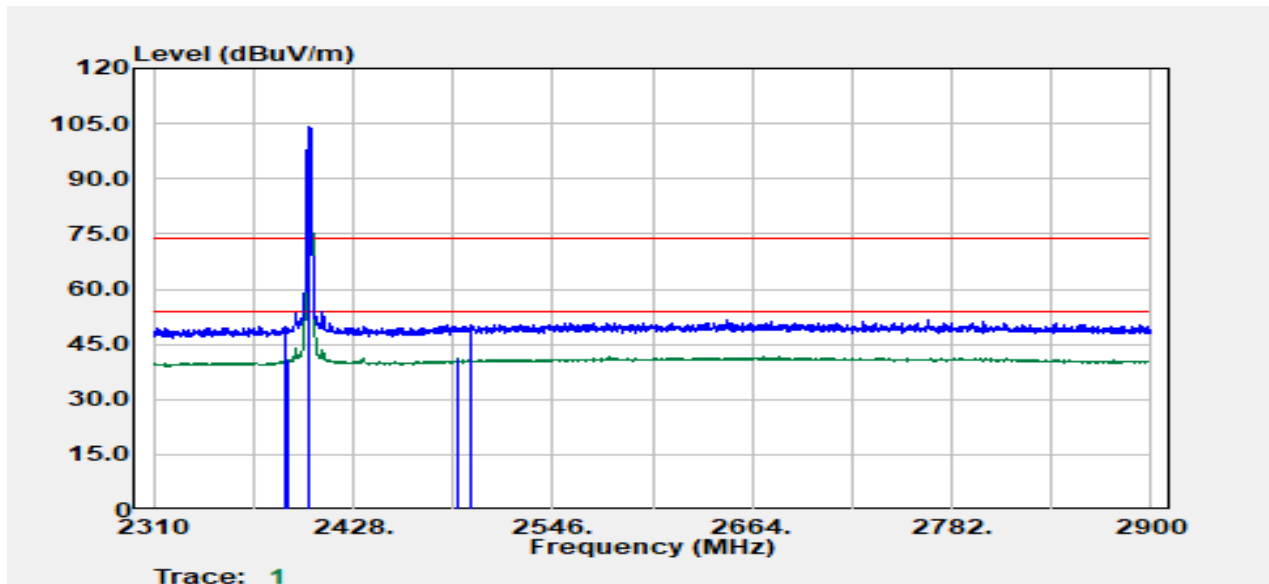
Above 1 GHz



4.6.4 Test Result

Band Edge Test Data

Project No	:TM-2402000256P	Test Date	:2024-06-27
Operation Band	:BLE_1M	Temp./Humi.	:24.6/57
Frequency	:2402 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



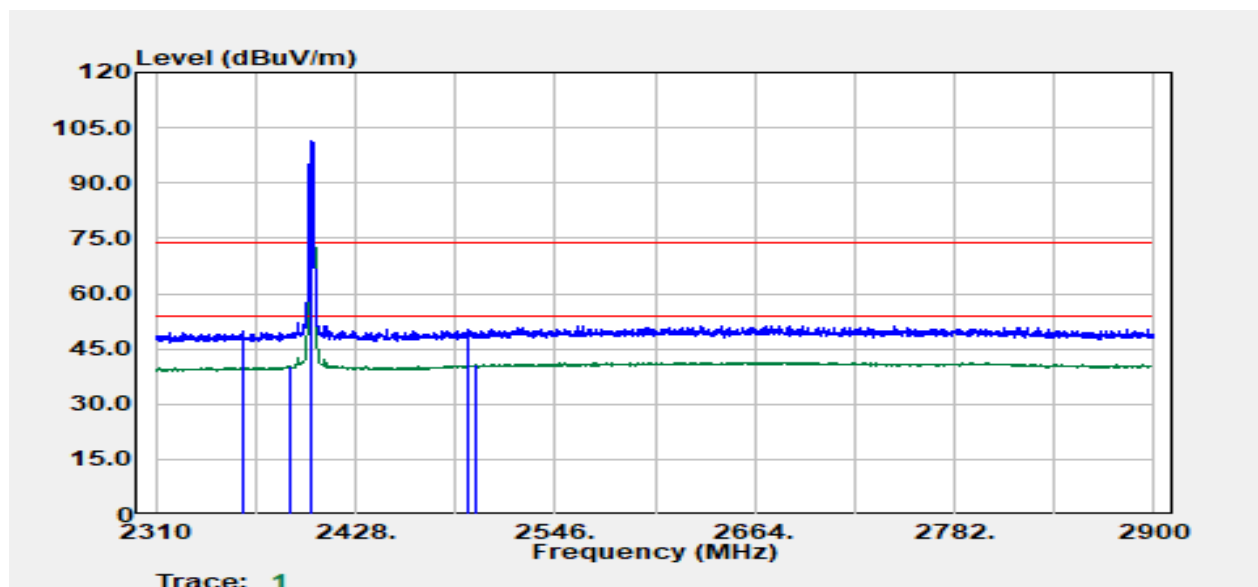
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2387.53	Peak	43.51	6.23	49.74	74.00	-24.26
2389.53	Average	34.44	6.27	40.71	54.00	-13.29
2402.00	Peak	97.64	6.29	103.94	--	--
2402.00	Average	97.41	6.29	103.71	--	--
2490.33	Average	34.33	6.80	41.14	54.00	-12.86
2498.33	Peak	43.24	6.83	50.08	74.00	-23.92

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



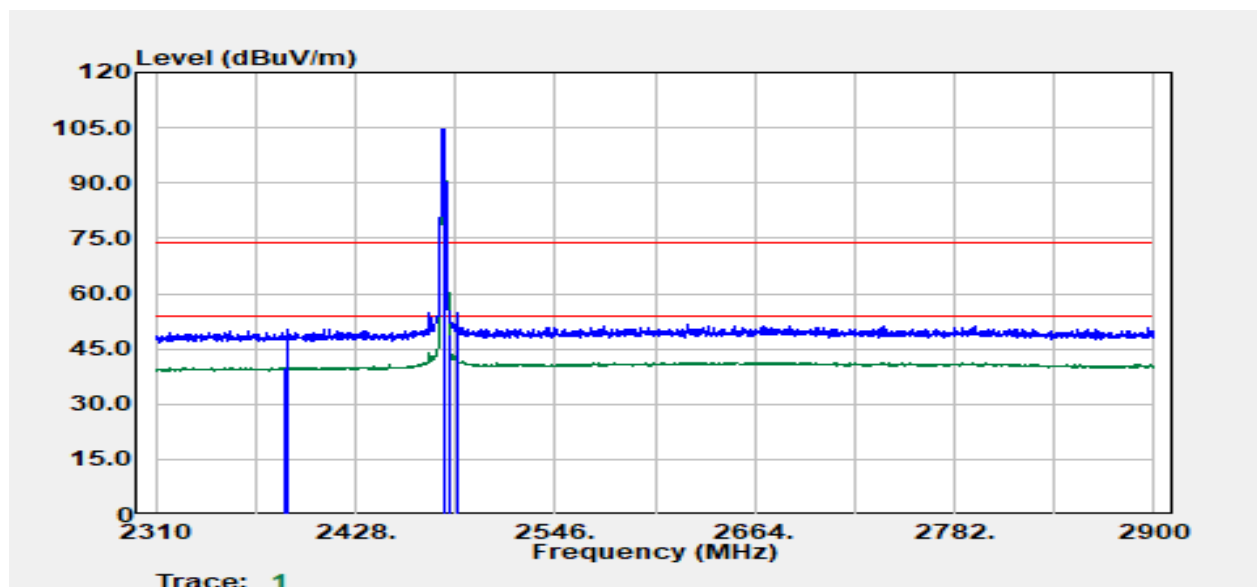
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2361.02	Peak	43.39	6.24	49.63	74.00	-24.37
2390.00	Average	33.93	6.28	40.21	54.00	-13.79
2402.00	Peak	95.11	6.29	101.40	--	--
2402.00	Average	94.89	6.29	101.19	--	--
2494.83	Peak	43.52	6.82	50.34	74.00	-23.66
2499.33	Average	33.91	6.84	40.75	54.00	-13.25

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A



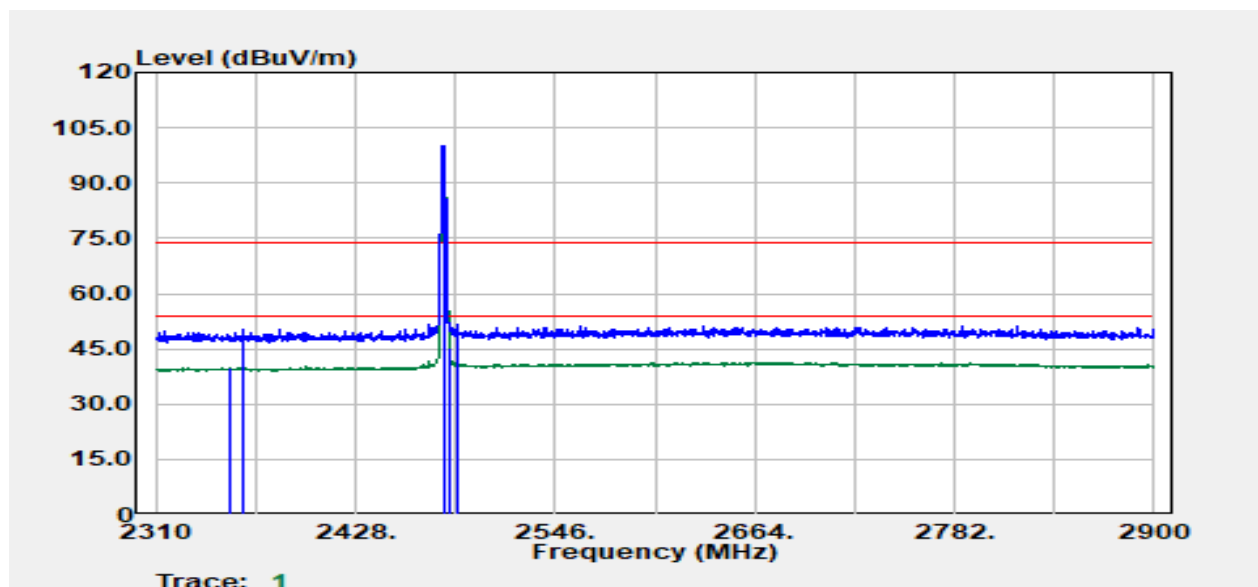
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2386.28	Average	33.83	6.20	40.03	54.00	-13.97
2387.78	Peak	44.09	6.23	50.33	74.00	-23.67
2480.00	Peak	98.01	6.67	104.67	--	--
2480.00	Average	97.78	6.67	104.45	--	--
2483.57	Average	42.39	6.72	49.11	54.00	-4.89
2488.08	Peak	47.96	6.78	54.74	74.00	-19.26

Report No.: TMWK2406002106KR

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



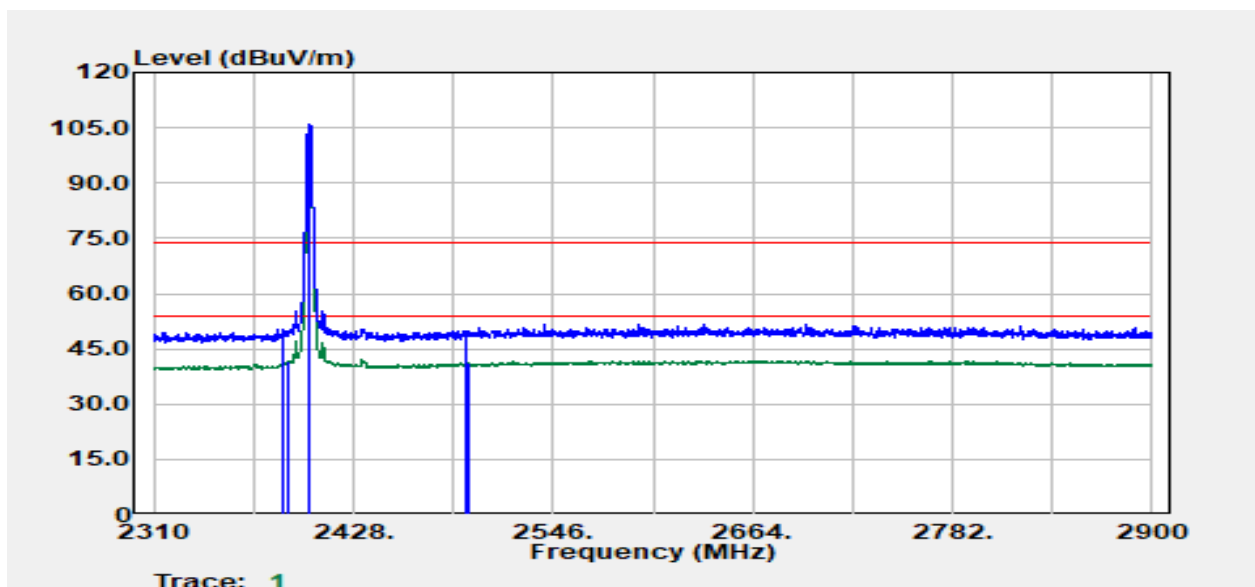
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2353.27	Average	33.56	6.24	39.81	54.00	-14.19
2361.77	Peak	44.00	6.23	50.23	74.00	-23.77
2480.00	Peak	93.41	6.67	100.08	--	--
2480.00	Average	93.23	6.67	99.90	--	--
2483.57	Average	38.56	6.72	45.27	54.00	-8.73
2488.08	Peak	44.88	6.78	51.66	74.00	-22.34

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Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A



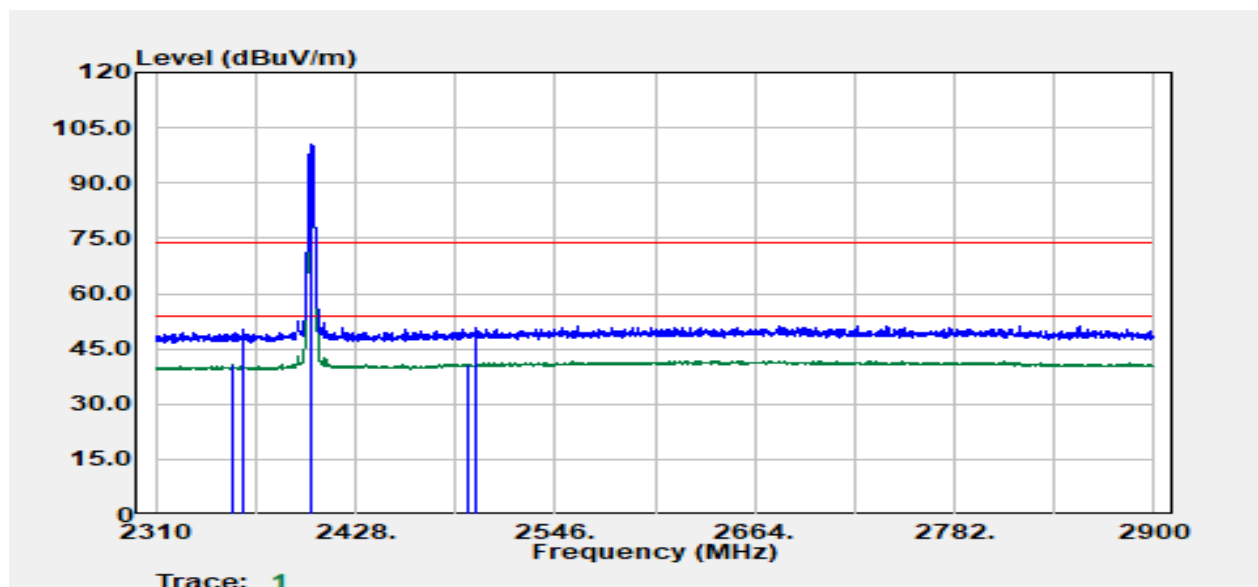
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2386.53	Peak	43.98	6.21	50.19	74.00	-23.81
2390.00	Average	35.33	6.28	41.61	54.00	-12.39
2402.00	Peak	99.46	6.29	105.76	--	--
2402.00	Average	98.35	6.29	104.64	--	--
2493.83	Peak	43.04	6.82	49.86	74.00	-24.14
2495.83	Average	34.47	6.82	41.29	54.00	-12.71

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Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



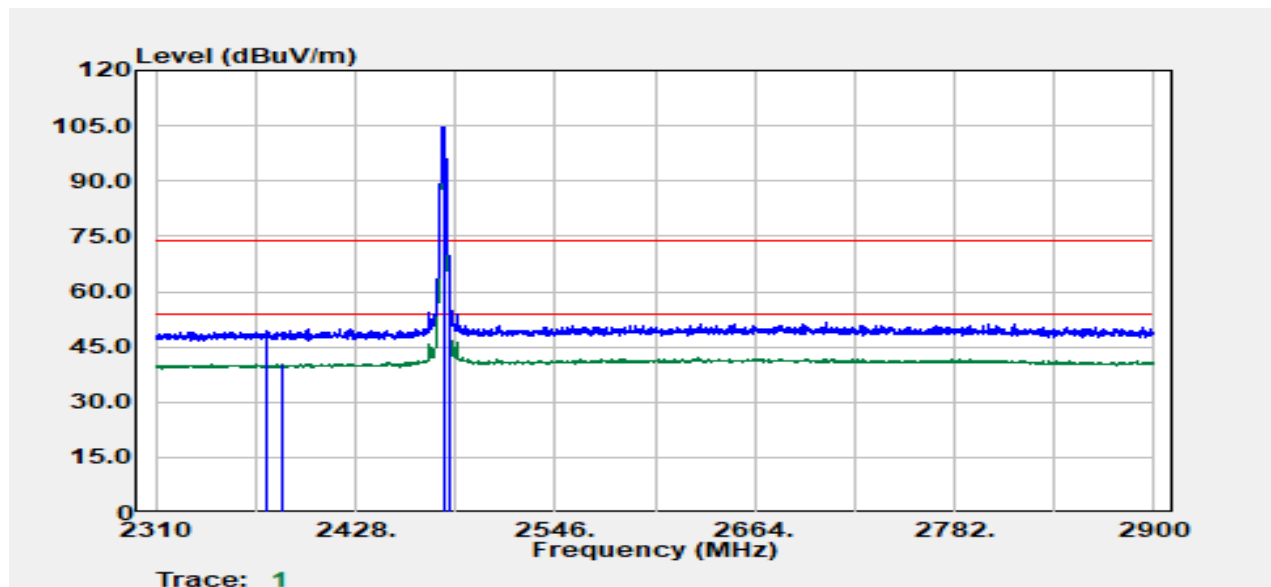
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2355.77	Average	34.45	6.25	40.69	54.00	-13.31
2361.77	Peak	43.90	6.23	50.13	74.00	-23.87
2402.00	Peak	94.01	6.29	100.31	--	--
2402.00	Average	92.93	6.29	99.22	--	--
2494.08	Average	34.09	6.82	40.91	54.00	-13.09
2499.08	Peak	44.00	6.84	50.84	74.00	-23.16

Report No.: TMWK2406002106KR

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Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A



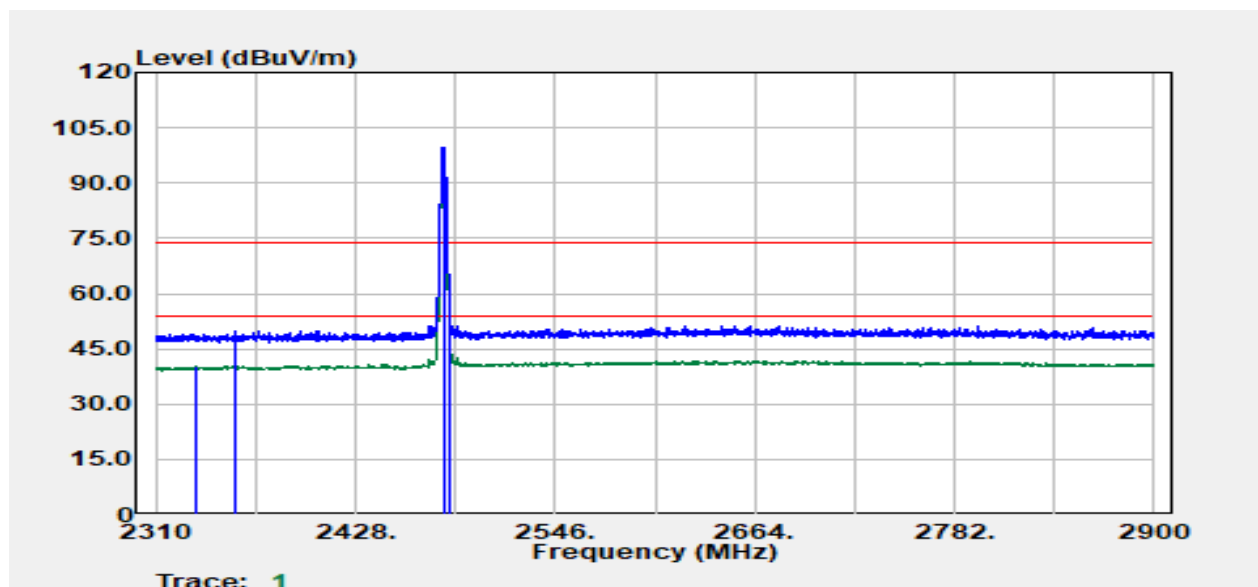
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
2376.03	Peak	43.27	6.11	49.37	74.00	-24.63
2384.53	Average	34.09	6.17	40.25	54.00	-13.75
2480.00	Peak	97.76	6.67	104.43	--	--
2480.00	Average	96.70	6.67	103.36	--	--
2483.57	Peak	53.73	6.72	60.45	74.00	-13.55
2483.57	Average	46.96	6.72	53.67	54.00	-0.33

Report No.: TMWK2406002106KR

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Rev.: 02

Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :E2
Setting :

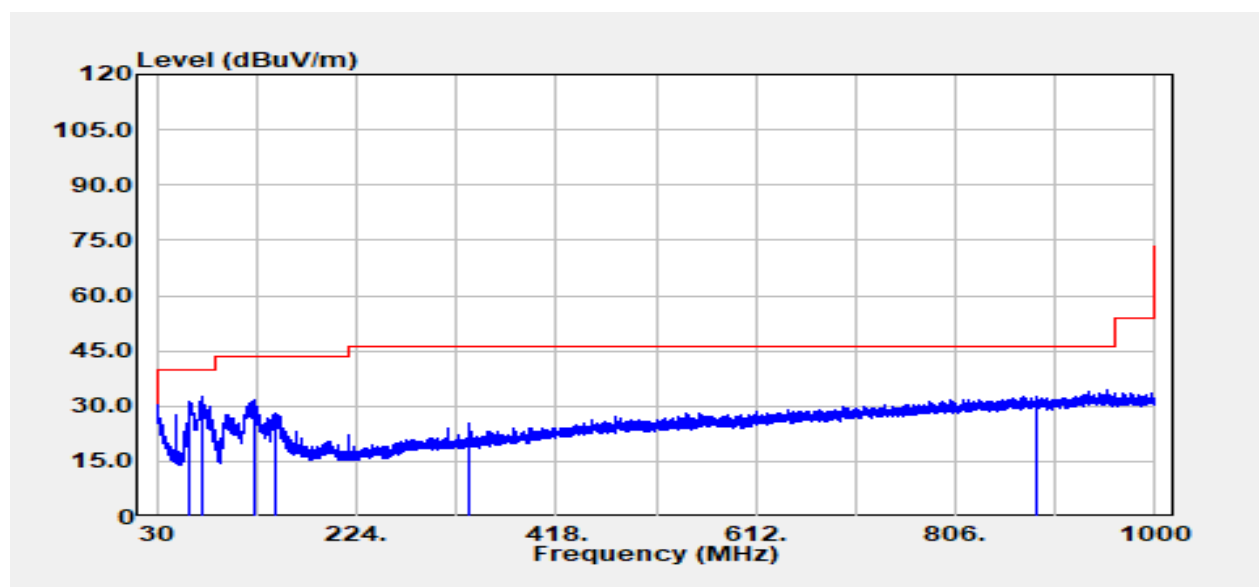
Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2333.51	Average	34.11	6.16	40.27	54.00	-13.73
2357.52	Peak	43.47	6.25	49.72	74.00	-24.28
2480.00	Peak	93.15	6.67	99.81	--	--
2480.00	Average	92.05	6.67	98.71	--	--
2483.57	Peak	50.04	6.72	56.75	74.00	-17.25
2483.57	Average	43.67	6.72	50.39	54.00	-3.61

TX Test Data

Project No	:TM-2402000256P	Test Date	:2024-06-27
Operation Band	:BLE_2M	Temp./Humi.	:24.6/57
Frequency	:2402 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



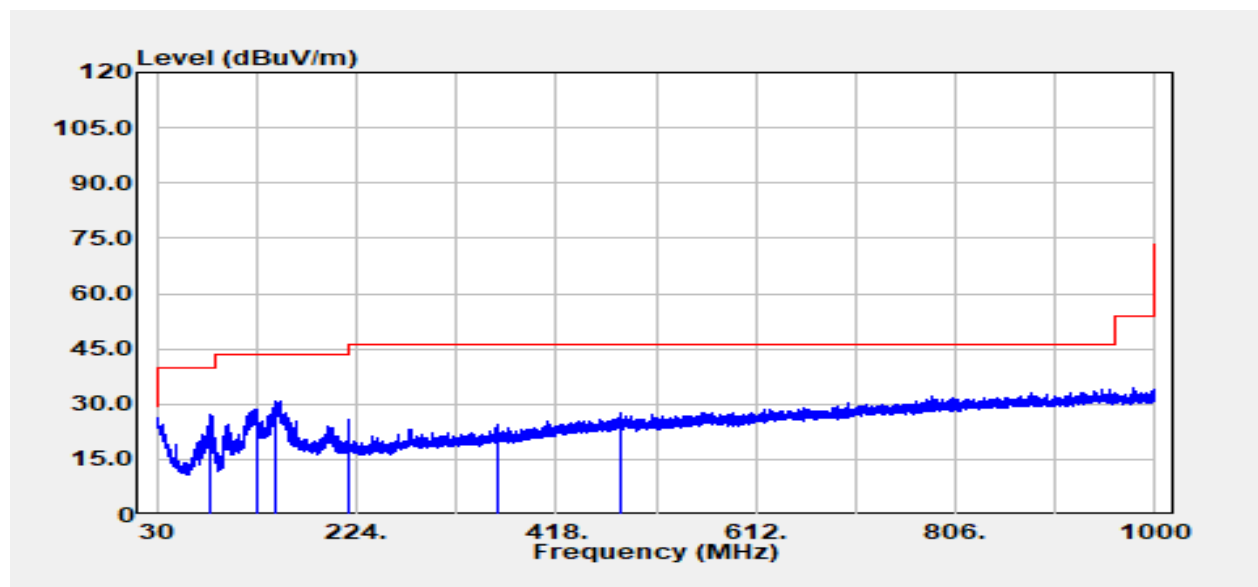
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
62.30	Peak	46.83	-15.59	31.24	40.00	-8.76
73.40	Peak	47.73	-15.35	32.38	40.00	-7.62
123.70	Peak	40.68	-9.14	31.54	43.50	-11.96
144.80	Peak	38.43	-10.15	28.27	43.50	-15.23
333.20	Peak	33.27	-7.81	25.46	46.00	-20.54
885.60	Peak	30.20	2.61	32.81	46.00	-13.19

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Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



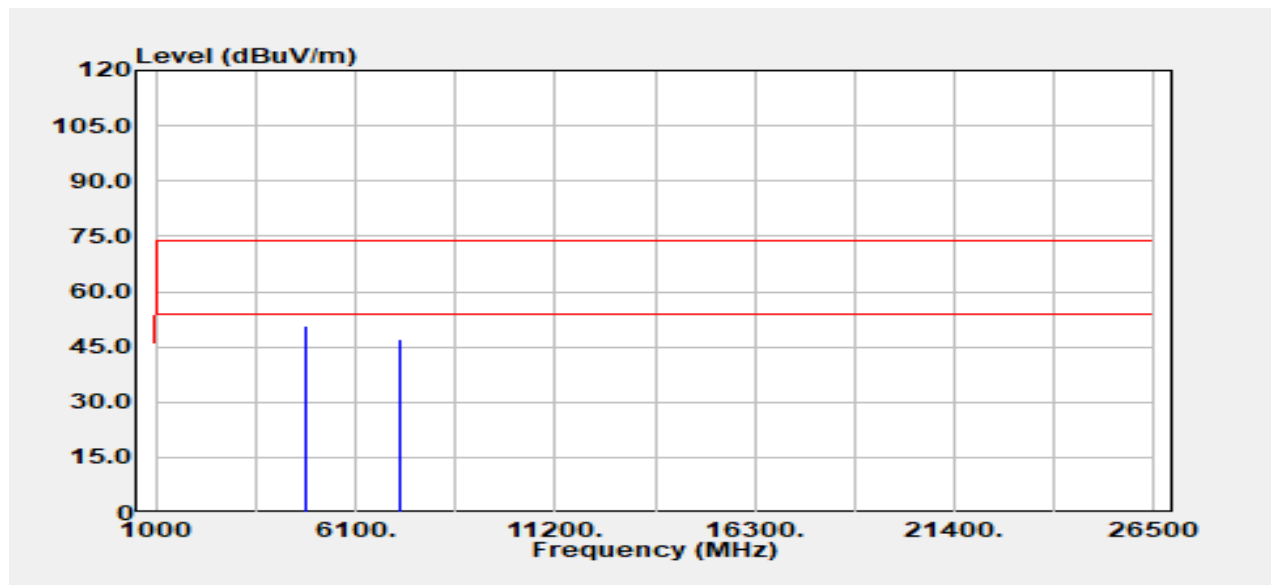
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
82.20	Peak	42.48	-15.47	27.01	40.00	-12.99
126.30	Peak	37.59	-9.04	28.54	43.50	-14.96
145.30	Peak	40.93	-10.19	30.75	43.50	-12.75
216.00	Peak	37.72	-11.79	25.93	43.50	-17.57
360.00	Peak	31.75	-7.09	24.66	46.00	-21.34
480.70	Peak	30.97	-3.42	27.55	46.00	-18.45

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A



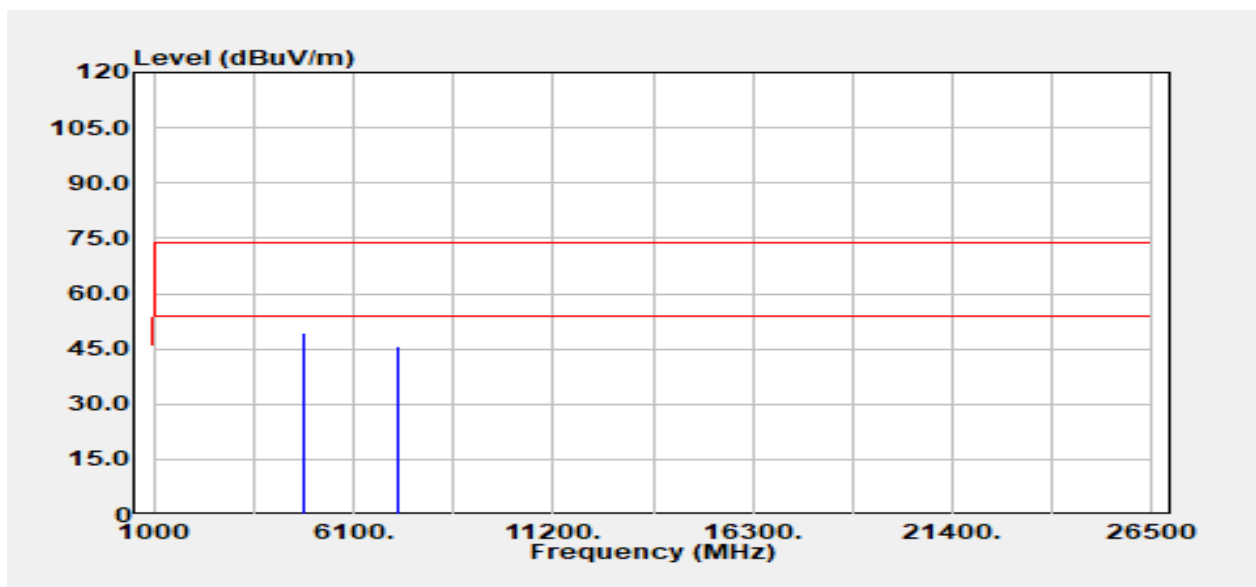
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	48.31	2.23	50.53	74.00	-23.47
4804.00	Average	47.09	2.23	49.32	54.00	-4.68
7206.00	Peak	38.26	9.01	47.27	74.00	-26.73
7206.00	Average	33.72	9.01	42.73	54.00	-11.27

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Ray Li
Test Chamber : 966A



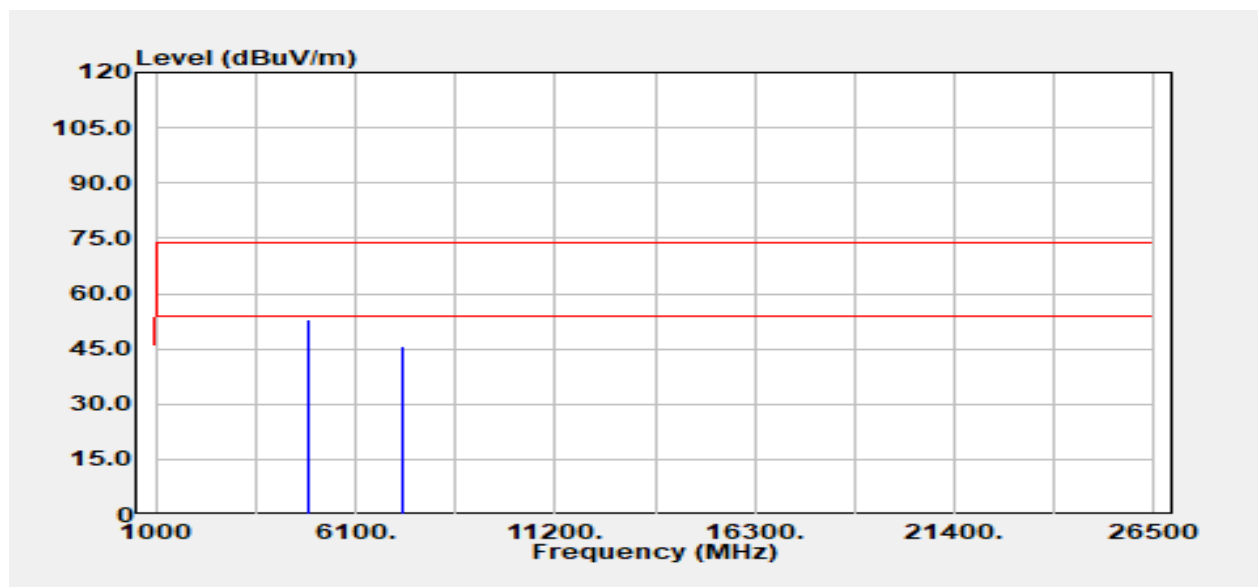
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	47.13	2.23	49.35	74.00	-24.65
4804.00	Average	46.25	2.23	48.47	54.00	-5.53
7206.00	Peak	36.53	9.01	45.54	74.00	-28.46
7206.00	Average	31.66	9.01	40.67	54.00	-13.33

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2442 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A



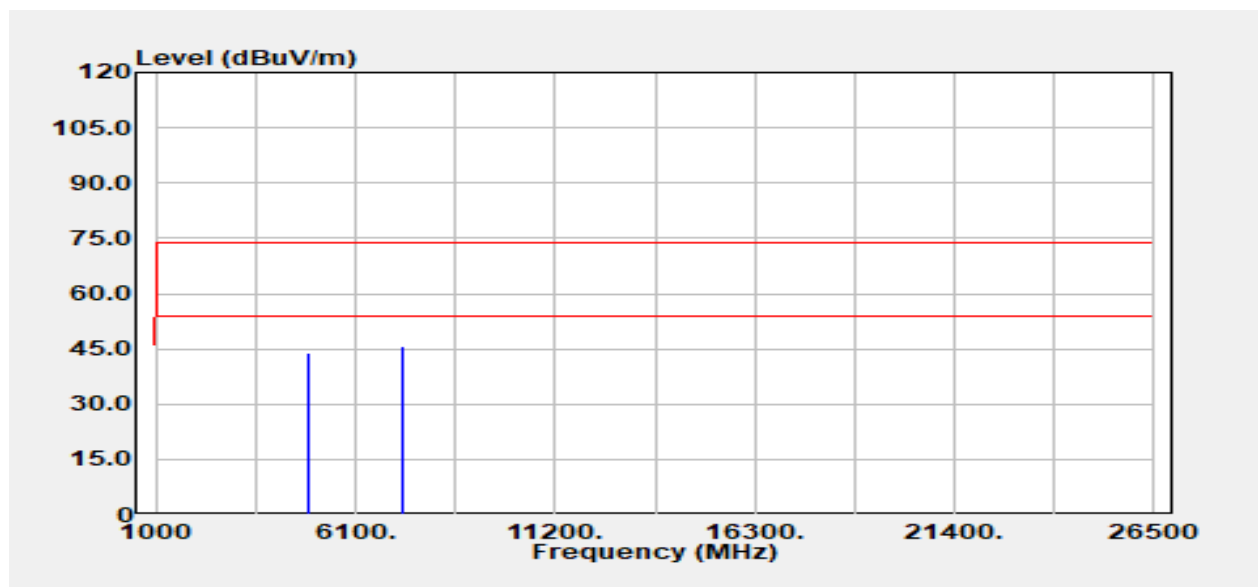
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4884.00	Peak	50.23	2.58	52.81	74.00	-21.19
4884.00	Average	47.76	2.58	50.34	54.00	-3.66
7326.00	Peak	36.81	8.95	45.77	74.00	-28.23
7326.00	Average	32.03	8.95	40.98	54.00	-13.02

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2442 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Ray Li
Test Chamber : 966A



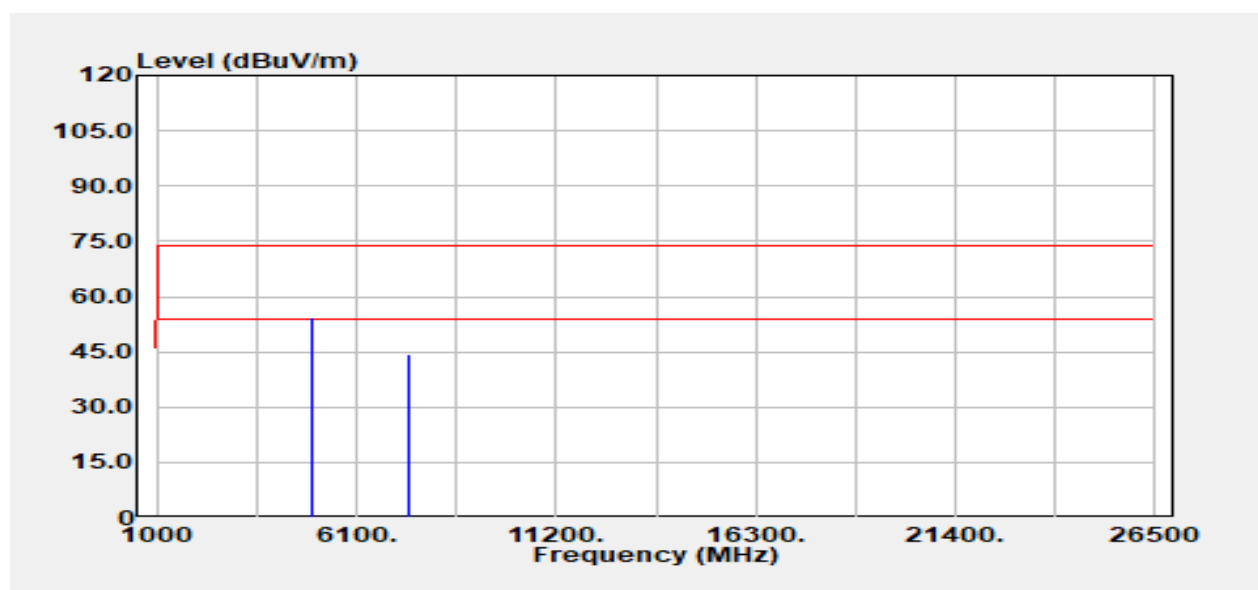
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4884.00	Peak	41.46	2.58	44.04	74.00	-29.96
4884.00	Average	39.76	2.58	42.34	54.00	-11.66
7326.00	Peak	36.57	8.95	45.52	74.00	-28.48
7326.00	Average	30.30	8.95	39.26	54.00	-14.74

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Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A



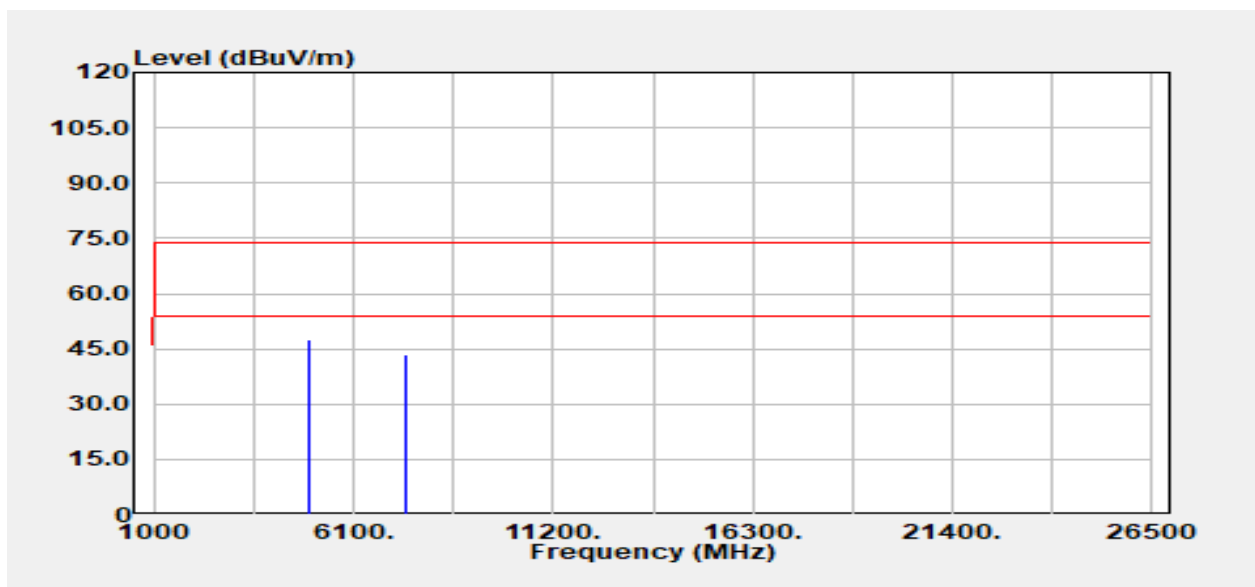
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	51.02	3.21	54.24	74.00	-19.76
4960.00	Average	49.22	3.21	52.44	54.00	-1.56
7440.00	Peak	35.65	8.92	44.57	74.00	-29.43
7440.00	Average	31.09	8.92	40.01	54.00	-13.99

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Rev.: 02

Project No :TM-2402000256P
Operation Band :BLE_1M
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Ray Li
Test Chamber : 966A



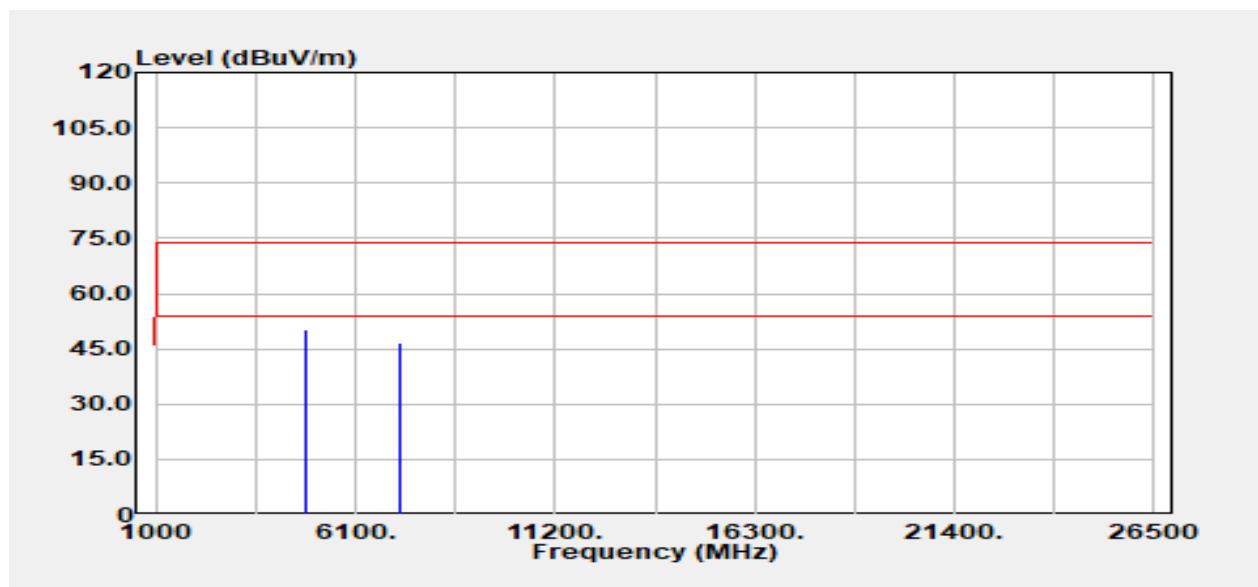
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	44.46	3.21	47.68	74.00	-26.32
4960.00	Average	42.51	3.21	45.73	54.00	-8.27
7440.00	Peak	34.63	8.92	43.55	74.00	-30.45
7440.00	Average	28.13	8.92	37.05	54.00	-16.95

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Rev.: 02

Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A

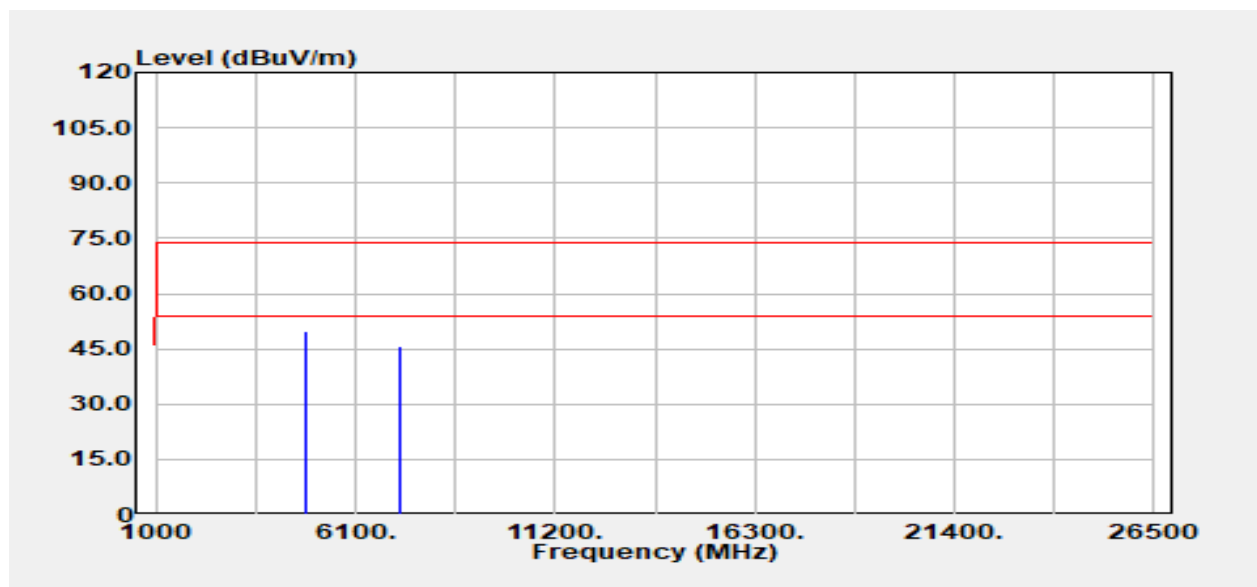


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	47.98	2.23	50.20	74.00	-23.80
4804.00	Average	44.82	2.23	47.04	54.00	-6.96
7206.00	Peak	37.80	9.01	46.82	74.00	-27.18
7206.00	Average	33.14	9.01	42.15	54.00	-11.85

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Rev.: 02

Project No	:TM-2402000256P	Test Date	:2024-06-27
Operation Band	:BLE_2M	Temp./Humi.	:24.6/57
Frequency	:2402 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



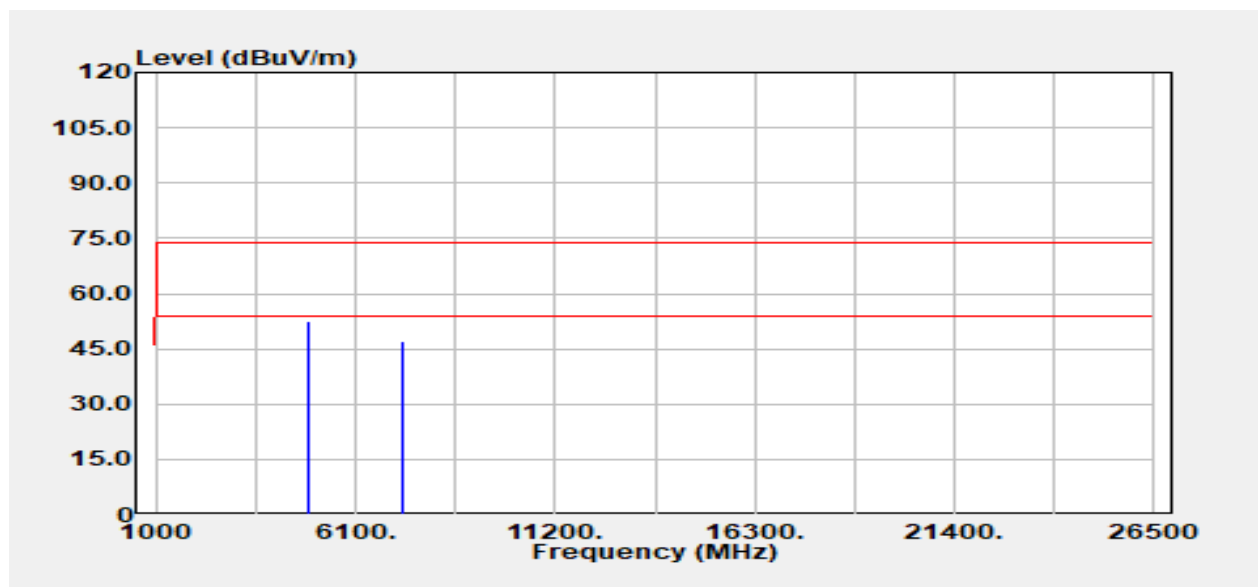
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	47.66	2.23	49.89	74.00	-24.11
4804.00	Average	44.65	2.23	46.88	54.00	-7.12
7206.00	Peak	36.85	9.01	45.86	74.00	-28.14
7206.00	Average	32.52	9.01	41.54	54.00	-12.46

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Rev.: 02

Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2442 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A

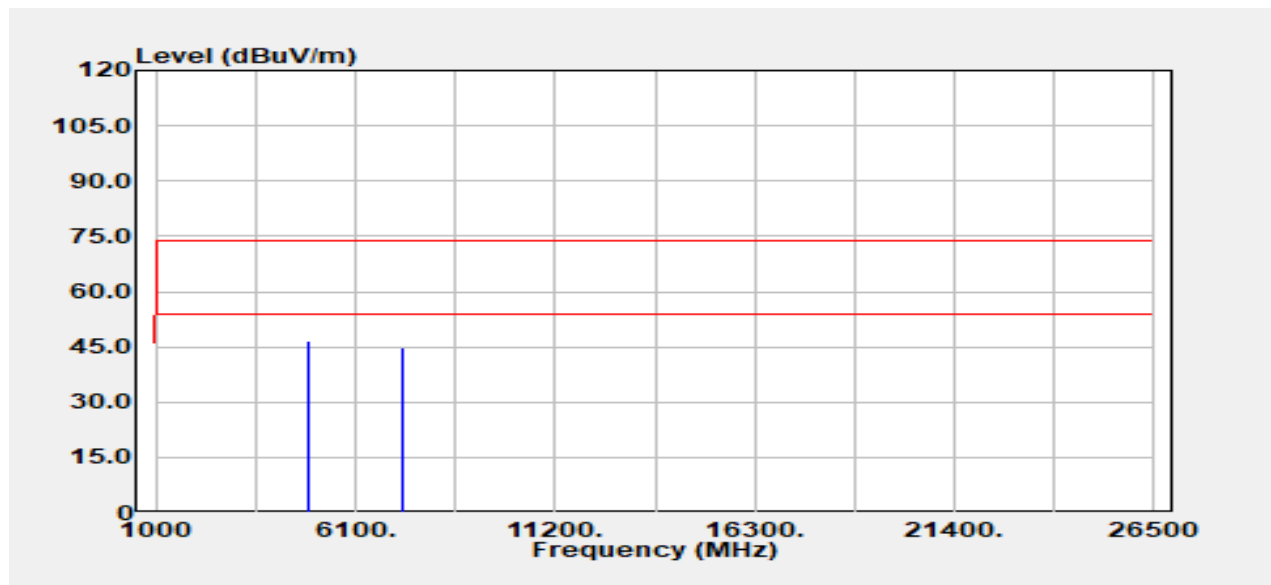


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4884.00	Peak	49.79	2.58	52.37	74.00	-21.63
4884.00	Average	45.63	2.58	48.21	54.00	-5.79
7326.00	Peak	38.08	8.95	47.03	74.00	-26.97
7326.00	Average	32.30	8.95	41.26	54.00	-12.74

Report No.: TMWK2406002106KR

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Rev.: 02

Project No	:TM-2402000256P	Test Date	:2024-06-27
Operation Band	:BLE_2M	Temp./Humi.	:24.6/57
Frequency	:2442 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



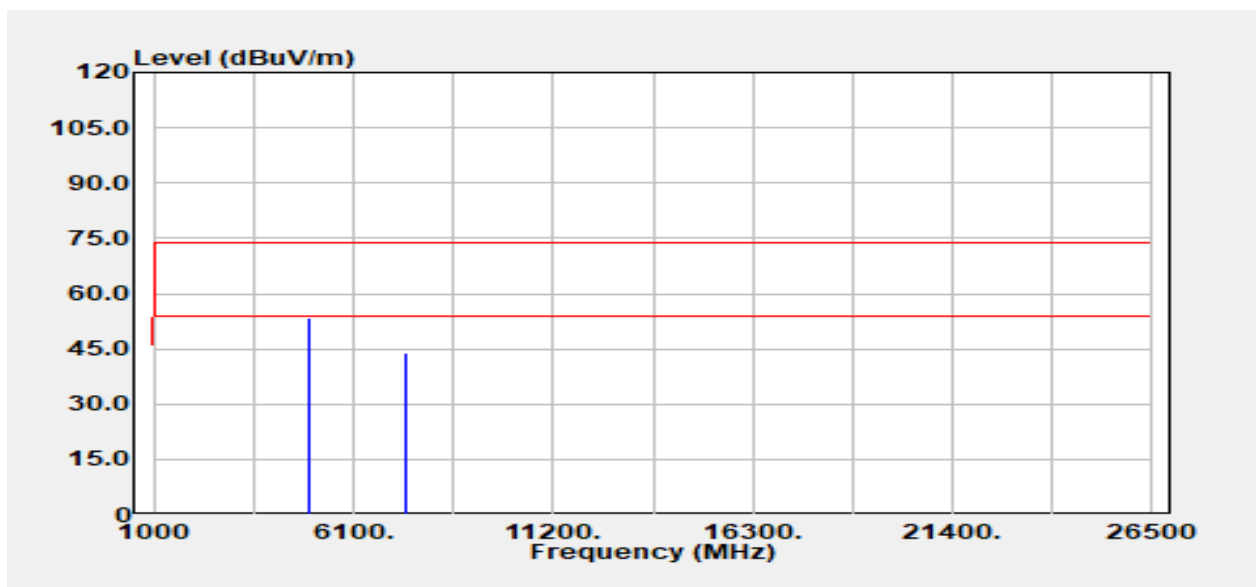
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4884.00	Peak	44.26	2.58	46.84	74.00	-27.16
4884.00	Average	40.94	2.58	43.52	54.00	-10.48
7326.00	Peak	36.09	8.95	45.04	74.00	-28.96
7326.00	Average	30.09	8.95	39.05	54.00	-14.95

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Project No :TM-2402000256P
Operation Band :BLE_2M
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :E2
Setting :

Test Date :2024-06-27
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A

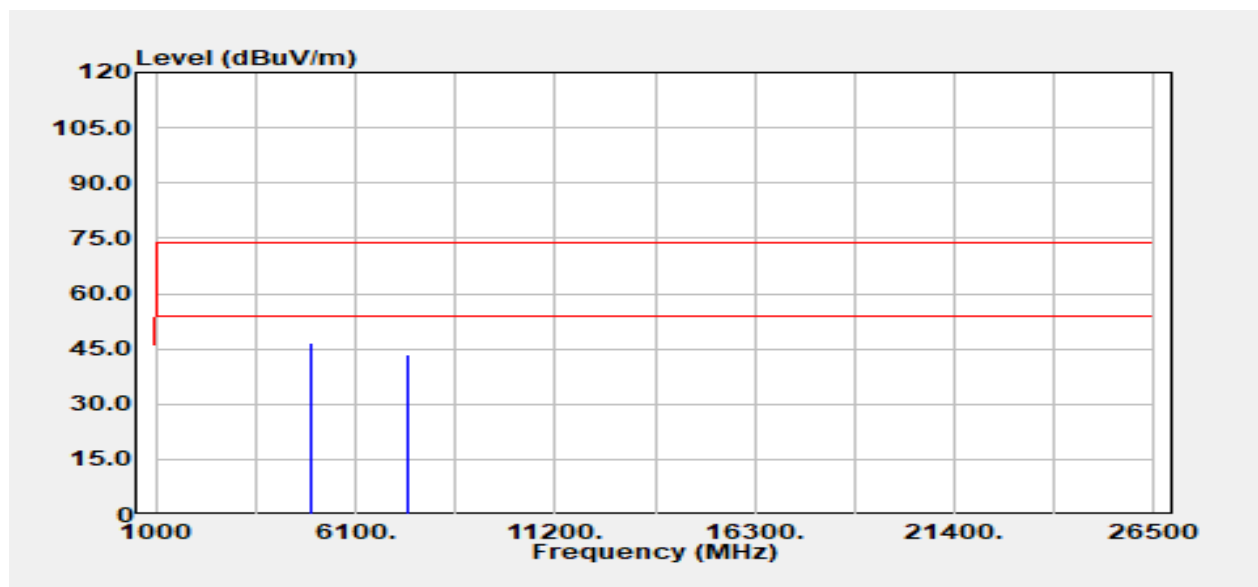


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	50.04	3.21	53.26	74.00	-20.74
4960.00	Average	47.50	3.21	50.72	54.00	-3.28
7440.00	Peak	35.16	8.92	44.08	74.00	-29.92
7440.00	Average	30.28	8.92	39.20	54.00	-14.80

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Rev.: 02

Project No	:TM-2402000256P	Test Date	:2024-06-27
Operation Band	:BLE_2M	Temp./Humi.	:24.6/57
Frequency	:2480 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	43.34	3.21	46.55	74.00	-27.45
4960.00	Average	39.87	3.21	43.08	54.00	-10.92
7440.00	Peak	34.70	8.92	43.62	74.00	-30.38
7440.00	Average	28.14	8.92	37.06	54.00	-16.94

- End of Test Report -