

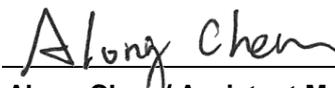
FCC Test Report

FCC ID : MXF-W1700K2
Equipment : Wi-Fi 7 Router
Model No. : W1700K
Brand Name : Q Fiber
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.247
Received Date : May 07, 2025
Tested Date : May 28 ~ Jun. 10, 2025

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager


Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	The Equipment List	8
1.5	Test Standards	9
1.6	Reference Guidance	9
1.7	Deviation from Test Standard and Measurement Procedure.....	9
1.8	Measurement Uncertainty	10
2	TEST CONFIGURATION	11
2.1	Testing Facility.....	11
2.2	The Worst Test Modes and Channel Details	11
3	TRANSMITTER TEST RESULTS.....	12
3.1	6dB and Occupied Bandwidth	12
3.2	Conducted Output Power	13
3.3	Power Spectral Density	14
3.4	Unwanted Emissions into Restricted Frequency Bands	15
3.5	Emissions in Non-Restricted Frequency Bands.....	17
3.6	AC Power Line Conducted Emissions	18
4	TEST LABORATORY INFORMATION	19
Appendix A. 6dB and Occupied Bandwidth		
Appendix B. Conducted Output Power		
Appendix C. Power Spectral Density		
Appendix D. Unwanted Emissions into Restricted Frequency Bands		
Appendix E. Emissions in Non-Restricted Frequency Bands		
Appendix F. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR560201	Rev. 01	Initial issue	Sep. 02, 2025

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 18.820MHz 37.76 (Margin -12.24dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 45.29MHz 36.69 (Margin -3.31dB) - QP	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 10.42	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400~2483.5	Thread	2405~2480	11-26 [16]	250kbps

Note 1: Thread uses DSSS-OQPSK modulation.

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remarks
1	PIFA	N/A	2.94	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: LUCENT TRANS ELECTRONICS CO., LTD. Model: 1A133-LHHL I/P: 100-120Vac, 50/60Hz, 1.4A O/P: 12V=4.0A, 48.0W Power Line: 1.8m non-shielded without core
2	AC adapter	Brand: MOSO Model: MS-V4000R120-050A0-US I/P: 100-120Vac, 50/60Hz, 1.3A max O/P: 12V=4.0A, 48.0W Power Line: 1.8m non-shielded without core
3	Fan	Brand: Power Logic Technology Inc. Model: PLA06010S12M Rating: 12Vdc, max.0.15A, max.1.8W
4	Fan	Brand: Shenzhen fuzhineng Electronics Co., Ltd Model: FDF6010S12M Rating: 12Vdc, max.0.18A, max.1.32W

1.1.5 Channel List

Channel No.	Frequency (MHz)
11	2405
12	2410
13	2415
14	2420
15	2425
16	2430
17	2435
18	2440
19	2445
20	2450
21	2455
22	2460
23	2465
24	2470
25	2475
26	2480

1.1.6 Test Tool and Duty Cycle

Test Tool	Terminal, v1.93b	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	100	0

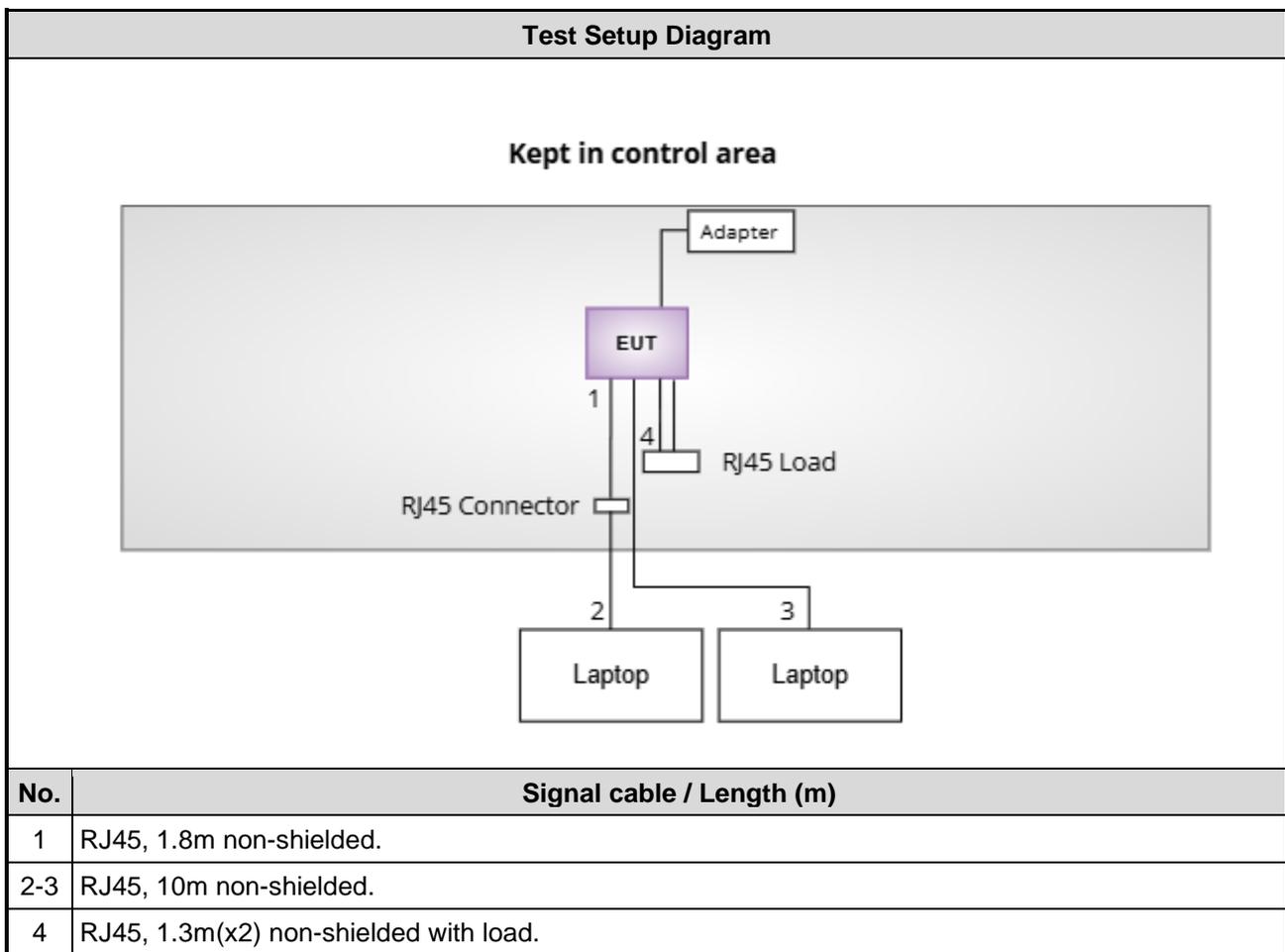
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
OQPSK	2405	100
OQPSK	2440	100
OQPSK	2480	100

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
2	Laptop	DELL	Latitude E5470	DoC	---
3	RJ45 Load	ICC	---	---	---
4	RJ45 Connector	ICC	RJ45 Connector	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Test Date	May 28 ~ Jun. 06, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 12, 2024	Nov. 11, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 05, 2024	Nov. 04, 2025
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 09, 2024	Aug. 08, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 28, 2024	Nov. 27, 2025
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 18, 2024	Nov. 17, 2025
Preamplifier	EMC	EMC02325	980225	Jun. 17, 2024	Jun. 16, 2025
Preamplifier	EMC	EMC118A45SE	980898	Jul. 05, 2024	Jul. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 02, 2024	Oct. 01, 2025
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 02, 2024	Oct. 01, 2025
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 02, 2024	Oct. 01, 2025
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 02, 2024	Oct. 01, 2025
Attenuator	Pasternack	PE7005-10	10-1	Oct. 02, 2024	Oct. 01, 2025
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 02, 2024	Oct. 01, 2025
Measurement Software	Sporton	SENSE-EMI	V5.11	NA	NA
Measurement Software	Sporton	SENSE-15247_FS	V5.11	NA	NA
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Test Date	Jun. 10, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2025	Apr. 17, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 26, 2024	Nov. 25, 2025
Power Sensor	Anritsu	MA2411B	1207366	Nov. 26, 2024	Nov. 25, 2025
Attenuator	Pasternack	PE7005-10	10-2	Oct. 04, 2024	Oct. 03, 2025
Measurement Software	Sporton	SENSE-15247_FS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Jun. 09, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 25, 2025	Feb. 24, 2026
LISN	R&S	ENV216	101579	May 07, 2025	May 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Oct. 09, 2024	Oct. 08, 2025
50 ohm terminal	NA	50	01	Jun. 19, 2024	Jun. 18, 2025
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2020
ANSI C63.4-2014 + C63.4a-2017

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emission	OQPSK	2480	250kbps	---
Unwanted Emissions ≤ 1GHz	OQPSK	2480	250kbps	---
Unwanted Emissions >1GHz Conducted Output Power 6dB bandwidth Power spectral density	OQPSK	2405 / 2440 / 2480	250kbps	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Two AC adapter (LUCENT TRANS ELECTRONICS CO., LTD. and MOSO) had been covered during the pretest, and found that **MOSO** worst case and was selected for final test.
3. Two Fans (Power Logic Technology Inc. and Shenzhen fuzhineng Electronics Co., Ltd) had been covered during the pretest, and found that **Power Logic Technology Inc.** was the worst case and was selected for final test.

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

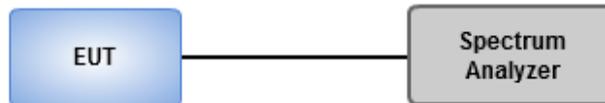
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = No faster than coupled (auto) time, Allow the trace to stabilize.
4. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain \leq 6dBi, no any corresponding reduction is in output power limit.

Antenna gain $>$ 6dBi

Non Fixed, point to point operations.

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 dB

Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Result of Maximum Output Power

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

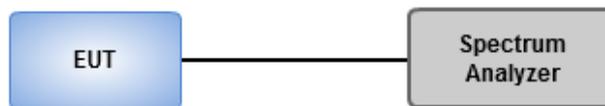
Average PSD, duty cycle \geq 98%

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle $<$ 98%

1. Set the RBW = 3 kHz, VBW = 10 kHz
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.
6. Add $10 \log (1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Result of Power Spectral Density

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix C.

3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

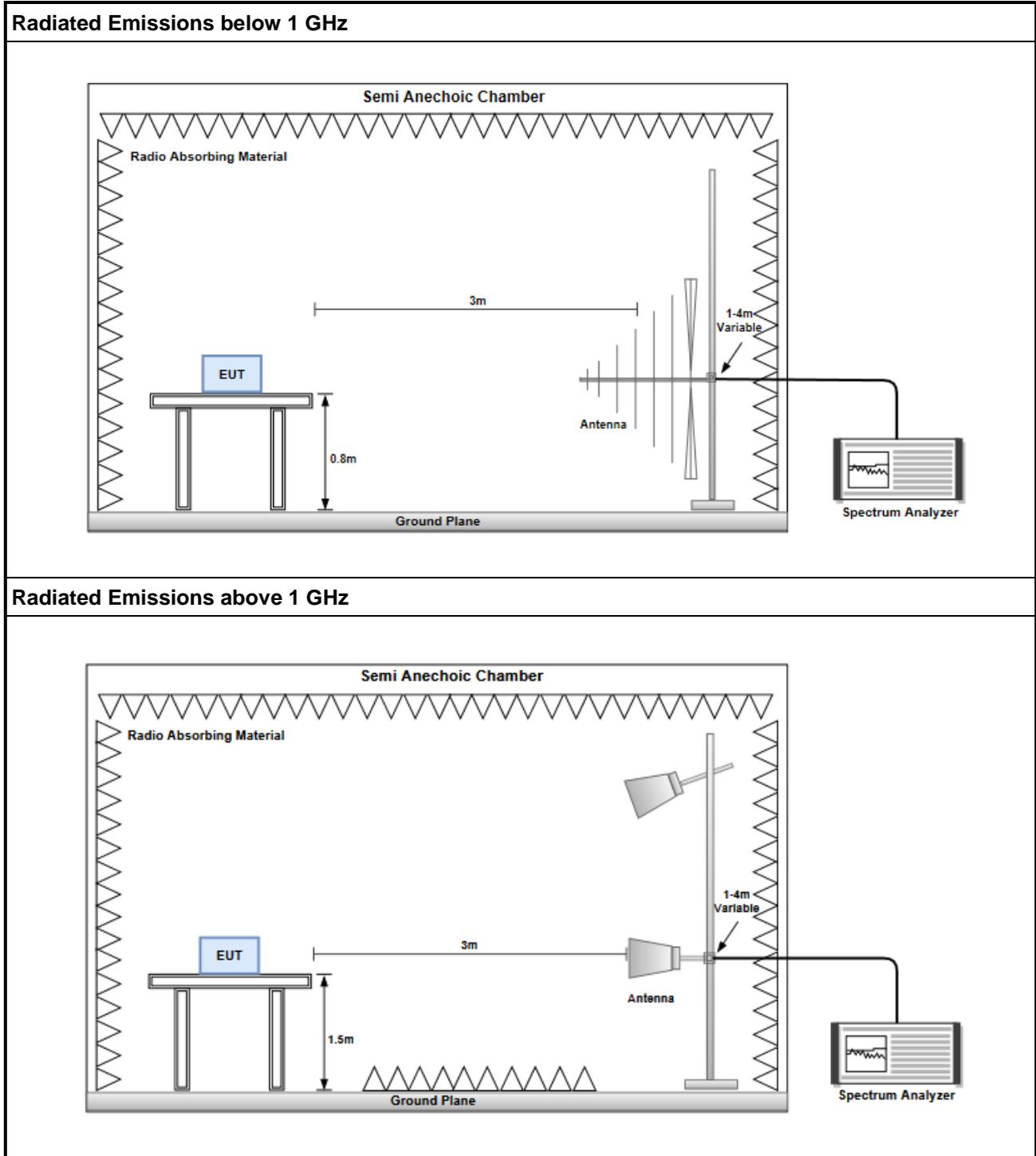
3.4.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup



3.4.4 Test Results

Ambient Condition	23-27°C / 61-68%	Tested By	Roger Lu / Brad Wu
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Refer to Appendix D.

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

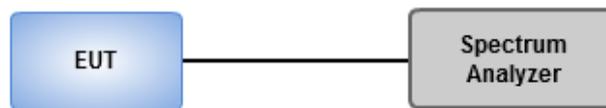
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Unwanted Emissions into Non-Restricted Frequency Bands

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of Conducted Emissions

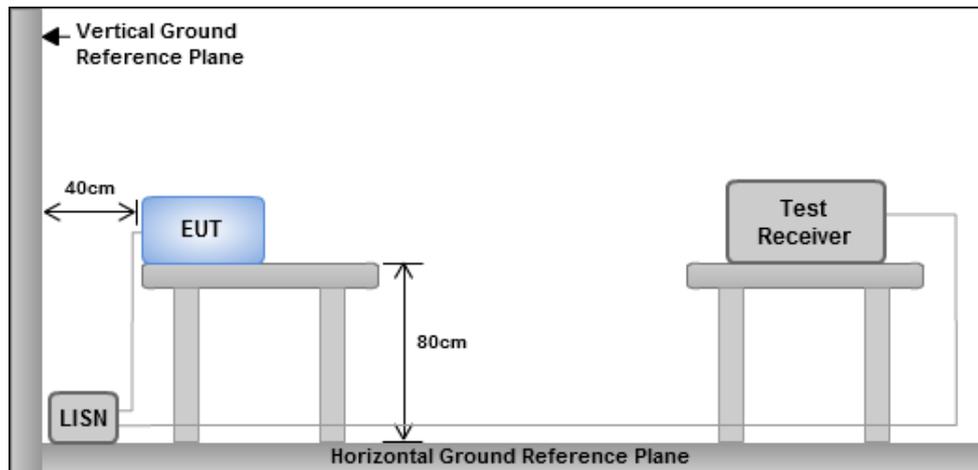
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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Kwei Shan

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

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City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Thread	1.65M	2.248M	2M25D1D	1.638M	2.242M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Thread	-	-	-	-
2405MHz	Pass	500k	1.65M	2.242M
2440MHz	Pass	500k	1.638M	2.242M
2480MHz	Pass	500k	1.644M	2.248M

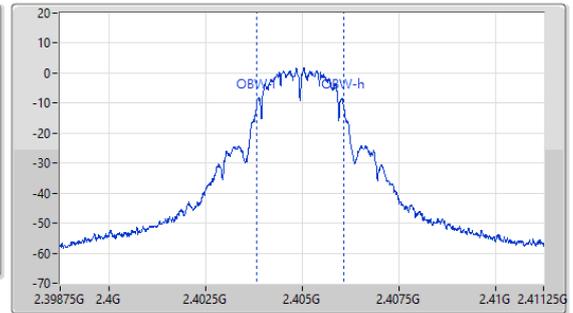
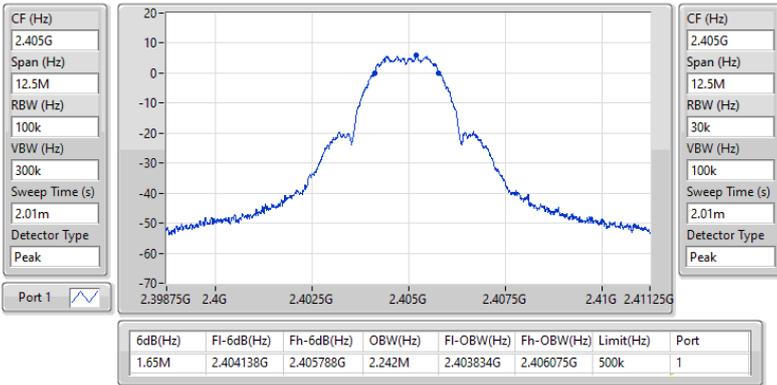
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz_Thread

EBW-DTS

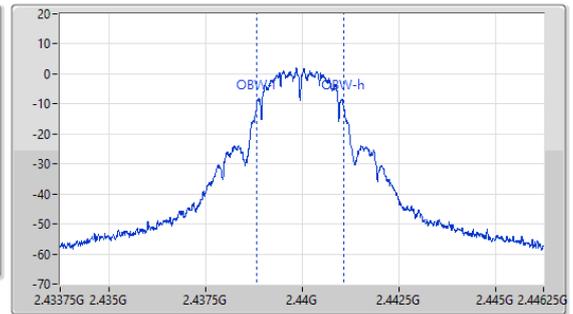
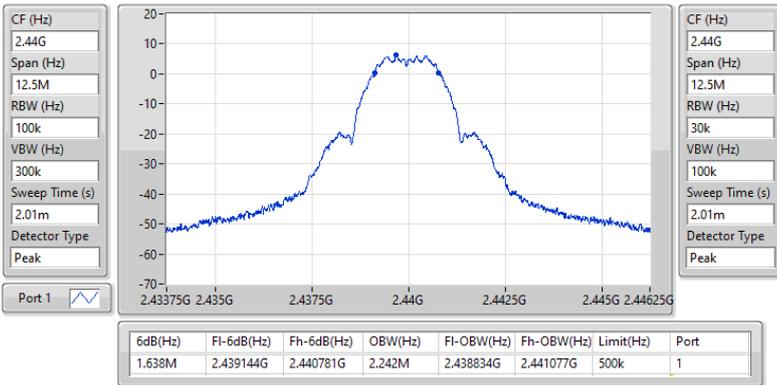
2405MHz

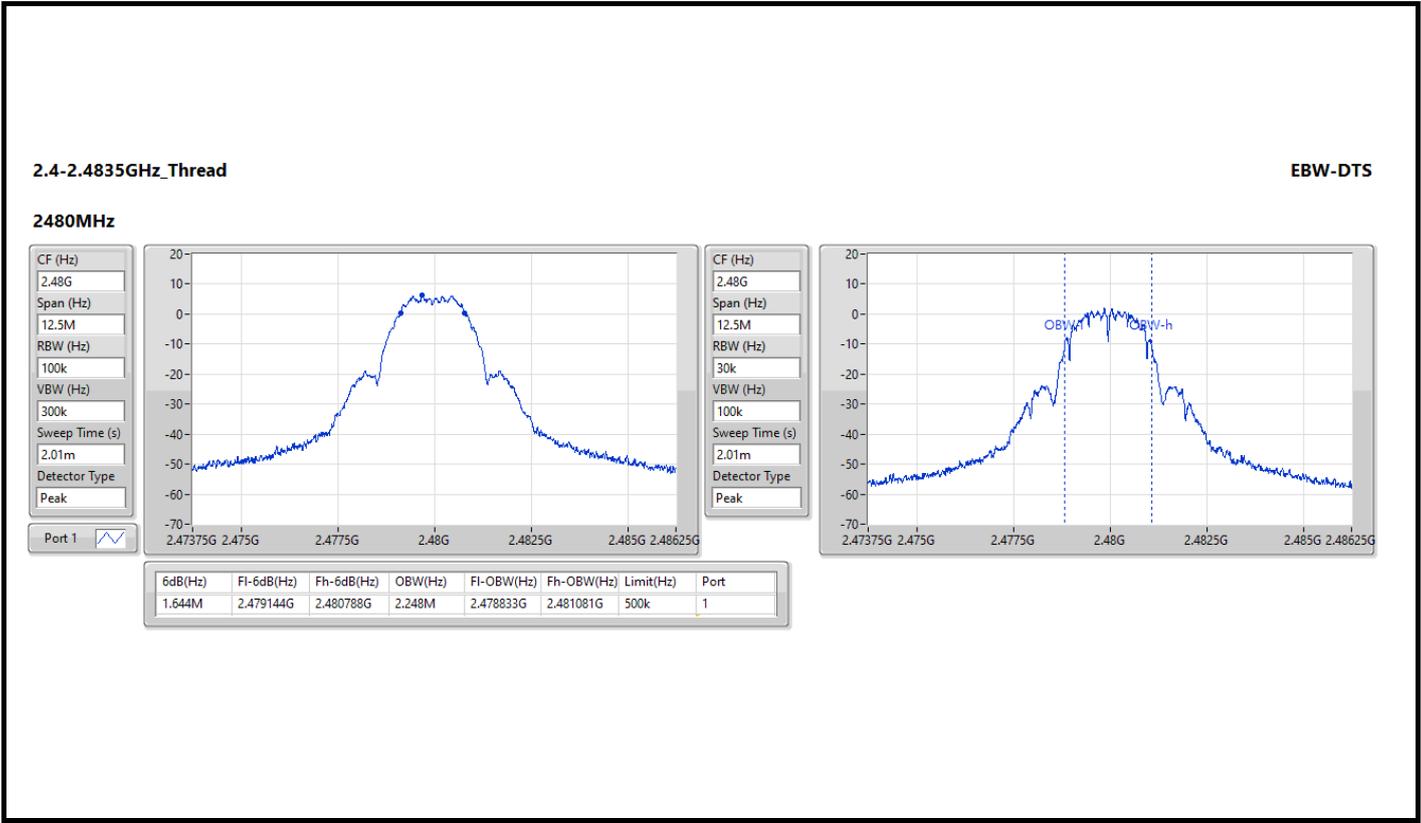


2.4-2.4835GHz_Thread

EBW-DTS

2440MHz







Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Thread	10.42	0.01102

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
Thread	-	-	-	-	-	-
2405MHz	Pass	2.94	10.21	30.00	13.15	36.00
2440MHz	Pass	2.94	10.39	30.00	13.33	36.00
2480MHz	Pass	2.94	10.42	30.00	13.36	36.00



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Thread	10.37	0.01089

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
Thread	-	-	-	-	-	-
2405MHz	Pass	2.94	10.15	-	13.09	-
2440MHz	Pass	2.94	10.33	-	13.27	-
2480MHz	Pass	2.94	10.37	-	13.31	-

Note: Average power is for reference only.

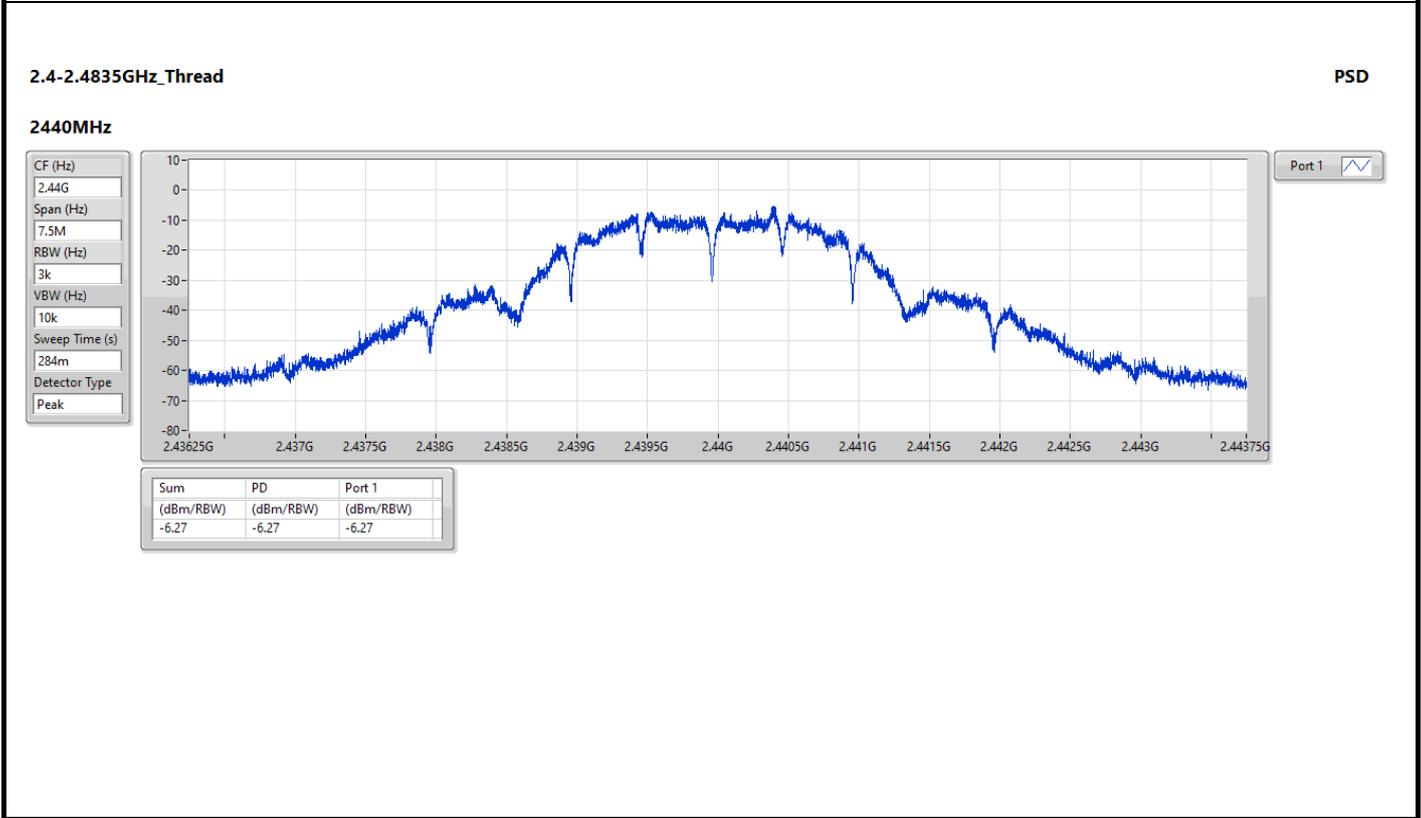
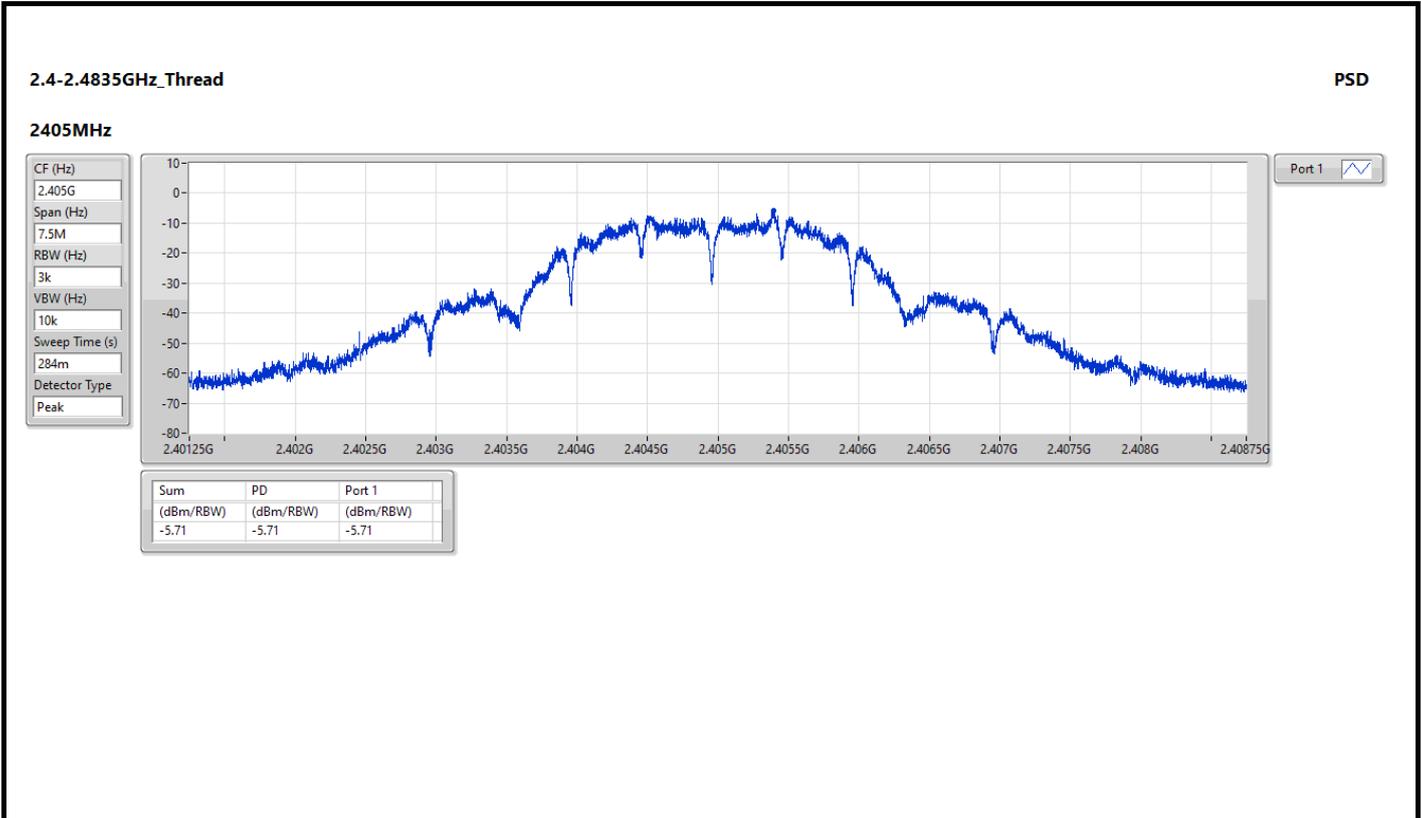


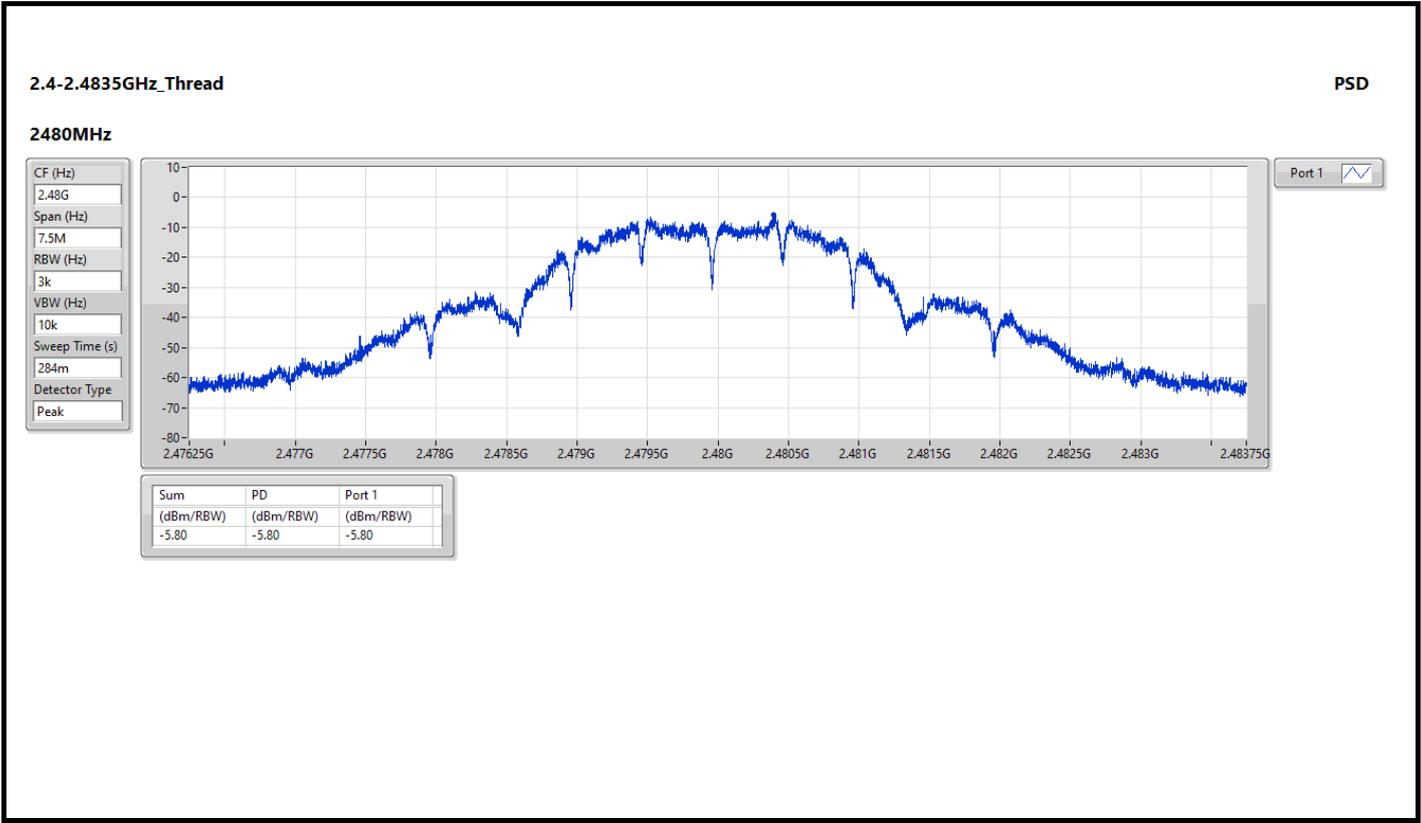
Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
Thread	-5.71

Result

Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
Thread	-	-	-	-
2405MHz	Pass	2.94	-5.71	8.00
2440MHz	Pass	2.94	-6.27	8.00
2480MHz	Pass	2.94	-5.80	8.00





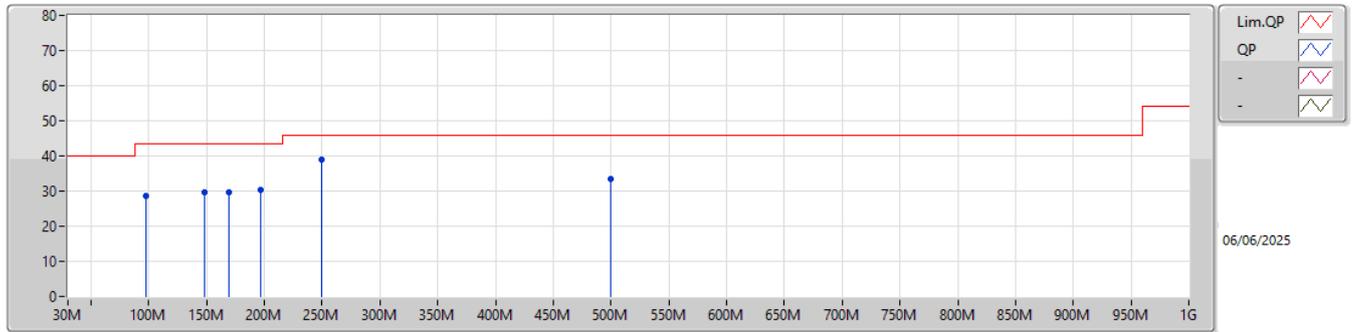


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	45.29M	36.69	40.00	-3.31	Vertical



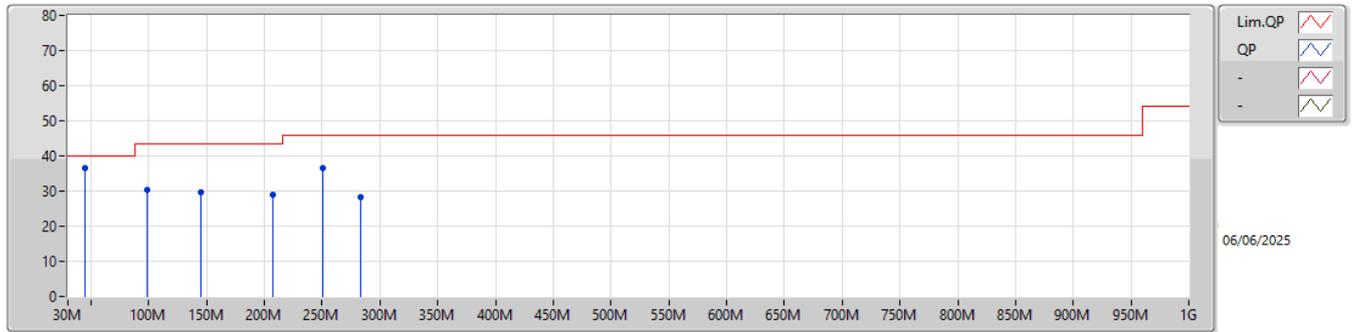
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
PK	98.06M	28.45	43.50	-15.05	-13.50	3	Horizontal	-	-	-	41.95	13.71	1.02	28.23
PK	148.34M	29.66	43.50	-13.84	-8.78	3	Horizontal	-	-	-	38.44	18.27	1.20	28.25
PK	169.21M	29.54	43.50	-13.96	-9.08	3	Horizontal	-	-	-	38.62	17.88	1.30	28.26
PK	196.33M	30.28	43.50	-13.22	-11.41	3	Horizontal	-	-	-	41.69	15.47	1.40	28.28
PK	249.68M	38.95	46.00	-7.05	-9.80	3	Horizontal	-	-	-	48.75	16.89	1.57	28.26
PK	499.92M	33.62	46.00	-12.38	-3.36	3	Horizontal	-	-	-	36.98	22.80	2.04	28.20



Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
QP	45.29M	36.69	40.00	-3.31	-8.48	3	Vertical	252	1.00	-	45.17	19.03	0.62	28.13
PK	98.34M	30.44	43.50	-13.06	-13.48	3	Vertical	-	-	-	43.92	13.73	1.02	28.23
PK	144.56M	29.81	43.50	-13.69	-8.92	3	Vertical	-	-	-	38.73	18.14	1.19	28.25
PK	207.44M	28.91	43.50	-14.59	-11.75	3	Vertical	-	-	-	40.66	15.10	1.43	28.28
PK	250.18M	36.42	46.00	-9.58	-9.77	3	Vertical	-	-	-	46.19	16.91	1.57	28.25
PK	283.26M	28.44	46.00	-17.56	-8.25	3	Vertical	-	-	-	36.69	18.27	1.72	28.24



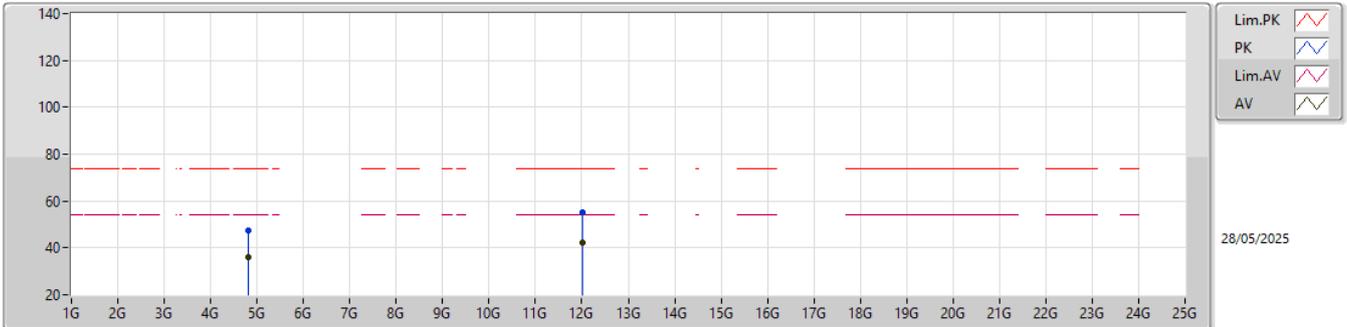
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
Thread	Pass	AV	7.32G	42.93	54.00	-11.07	3	Horizontal	157	1.00	-



2.4-2.4835GHz_Thread

2405MHz_TX

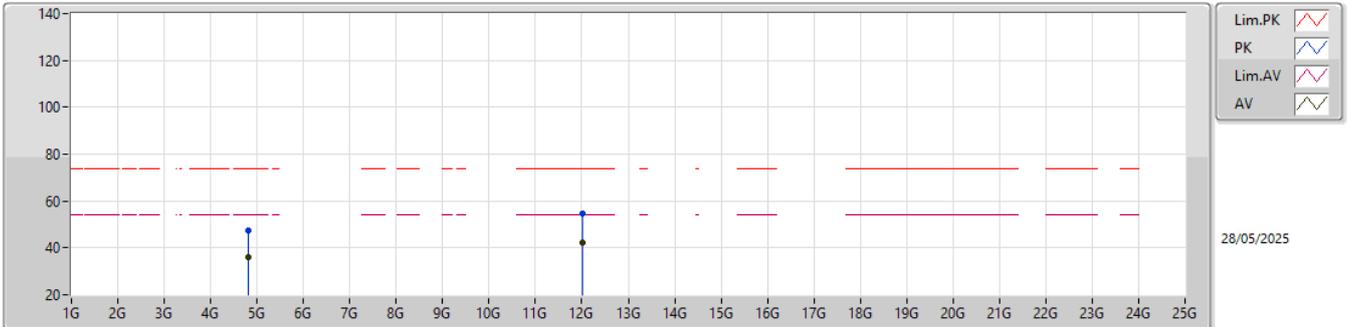


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.81G	36.16	54.00	-17.84	36.59	3	Horizontal	219	1.00	-	31.40	6.69	38.52
PK	4.81G	47.33	74.00	-26.67	47.76	3	Horizontal	219	1.00	-	31.40	6.69	38.52
AV	12.025G	42.22	54.00	-11.78	35.46	3	Horizontal	60	1.00	-	39.40	10.24	42.88
PK	12.025G	54.96	74.00	-19.04	48.20	3	Horizontal	60	1.00	-	39.40	10.24	42.88



2.4-2.4835GHz_Thread

2405MHz_TX

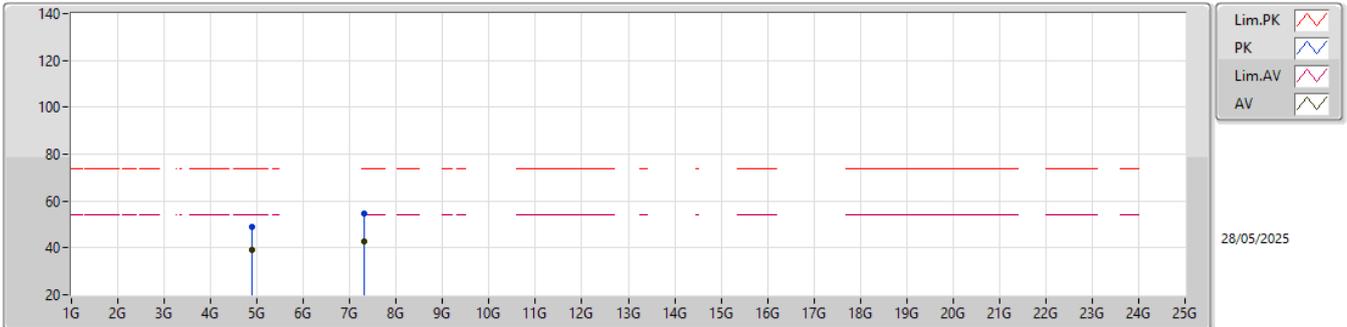


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.81G	36.06	54.00	-17.94	36.49	3	Vertical	188	2.08	-	31.40	6.69	38.52
PK	4.81G	47.29	74.00	-26.71	47.72	3	Vertical	188	2.08	-	31.40	6.69	38.52
AV	12.025G	42.14	54.00	-11.86	35.38	3	Vertical	106	1.00	-	39.40	10.24	42.88
PK	12.025G	54.86	74.00	-19.14	48.10	3	Vertical	106	1.00	-	39.40	10.24	42.88



2.4-2.4835GHz_Thread

2440MHz_TX

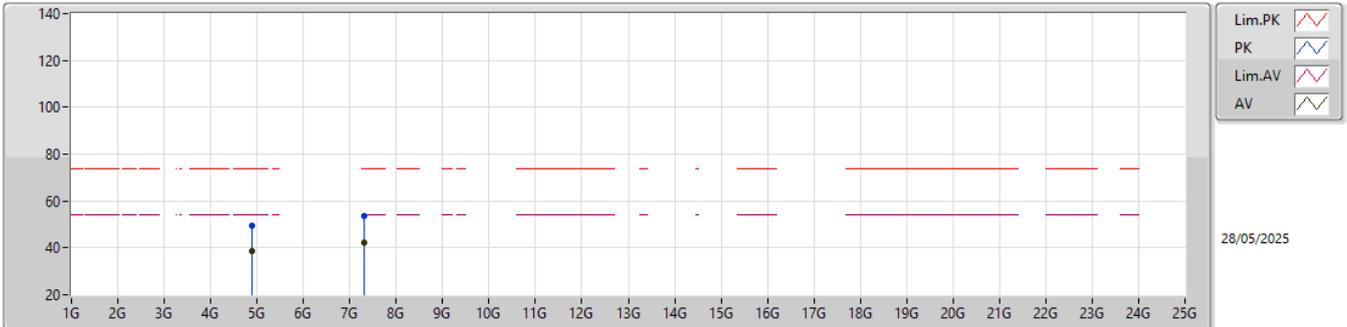


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.88G	39.27	54.00	-14.73	39.67	3	Horizontal	219	1.00	-	31.40	6.77	38.57
PK	4.88G	49.10	74.00	-24.90	49.50	3	Horizontal	219	1.00	-	31.40	6.77	38.57
AV	7.32G	42.93	54.00	-11.07	37.43	3	Horizontal	157	1.00	-	36.26	8.63	39.39
PK	7.32G	54.56	74.00	-19.44	49.06	3	Horizontal	157	1.00	-	36.26	8.63	39.39



2.4-2.4835GHz_Thread

2440MHz_TX

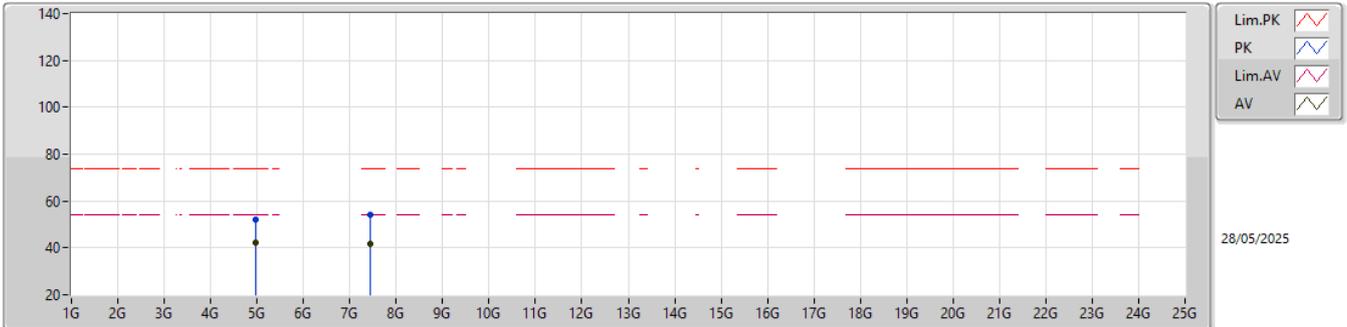


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.88G	38.82	54.00	-15.18	39.22	3	Vertical	190	2.16	-	31.40	6.77	38.57
PK	4.88G	49.42	74.00	-24.58	49.82	3	Vertical	190	2.16	-	31.40	6.77	38.57
AV	7.32G	42.20	54.00	-11.80	36.70	3	Vertical	208	1.12	-	36.26	8.63	39.39
PK	7.32G	53.58	74.00	-20.42	48.08	3	Vertical	208	1.12	-	36.26	8.63	39.39



2.4-2.4835GHz_Thread

2480MHz_TX

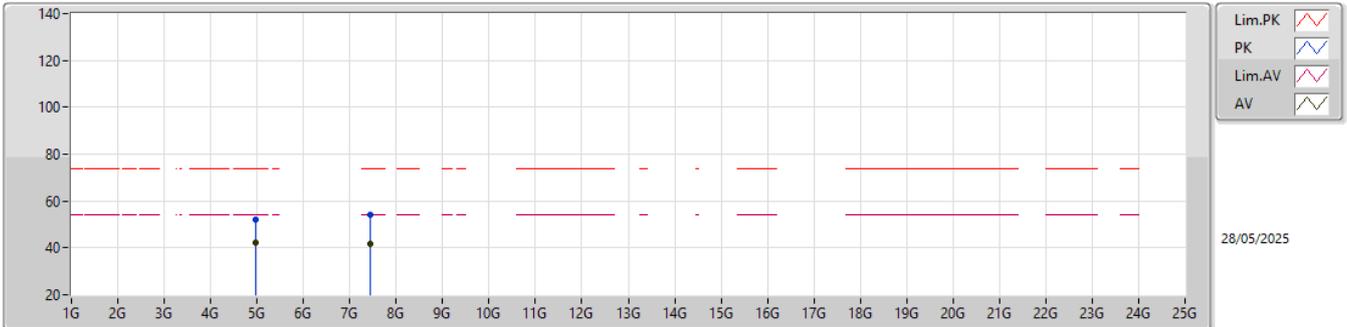


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.96G	42.41	54.00	-11.59	42.73	3	Horizontal	220	1.00	-	31.44	6.86	38.62
PK	4.96G	52.03	74.00	-21.97	52.35	3	Horizontal	220	1.00	-	31.44	6.86	38.62
AV	7.44G	41.86	54.00	-12.14	36.46	3	Horizontal	155	1.00	-	36.28	8.66	39.54
PK	7.44G	54.01	74.00	-19.99	48.61	3	Horizontal	155	1.00	-	36.28	8.66	39.54

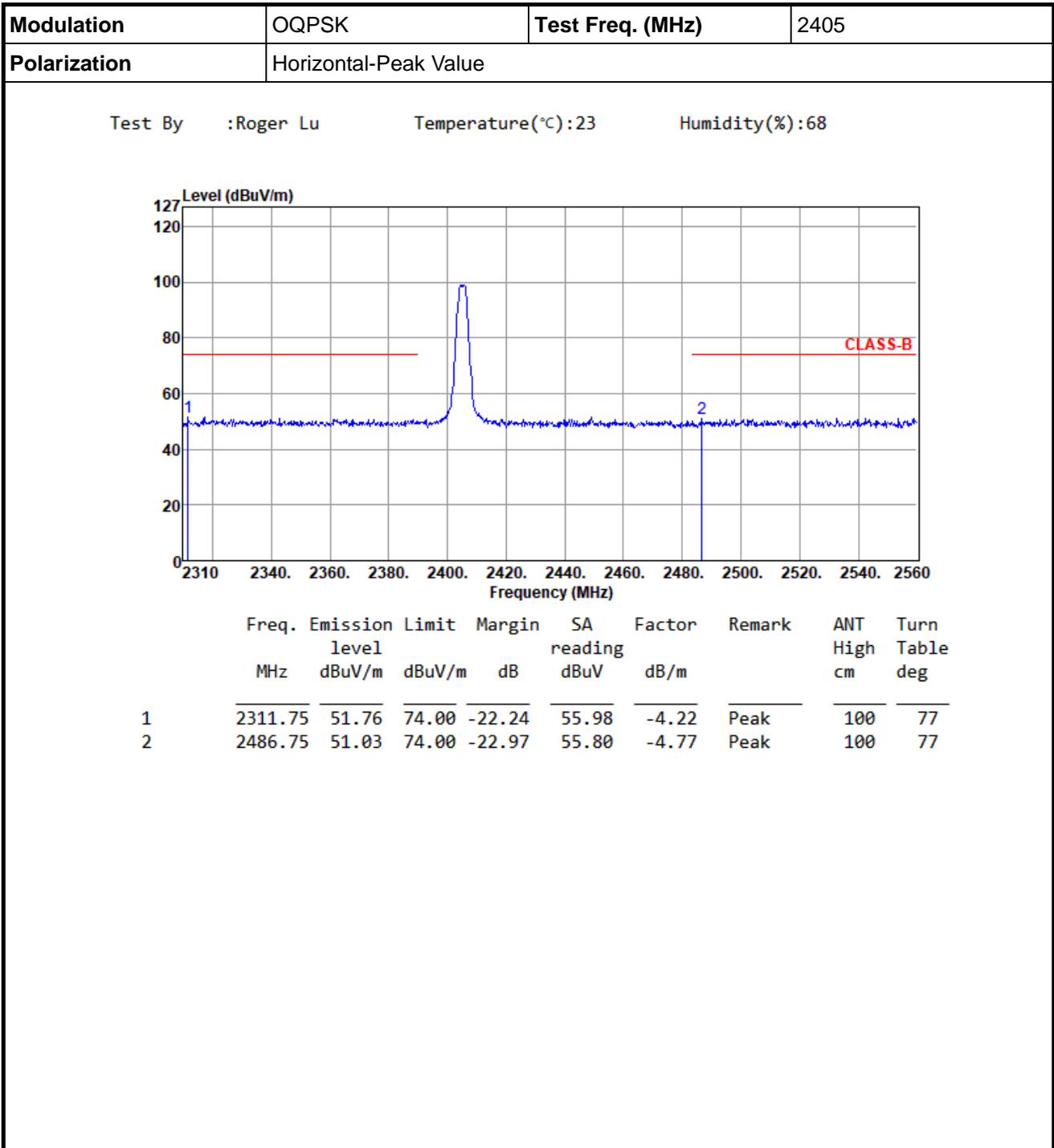


2.4-2.4835GHz_Thread

2480MHz_TX



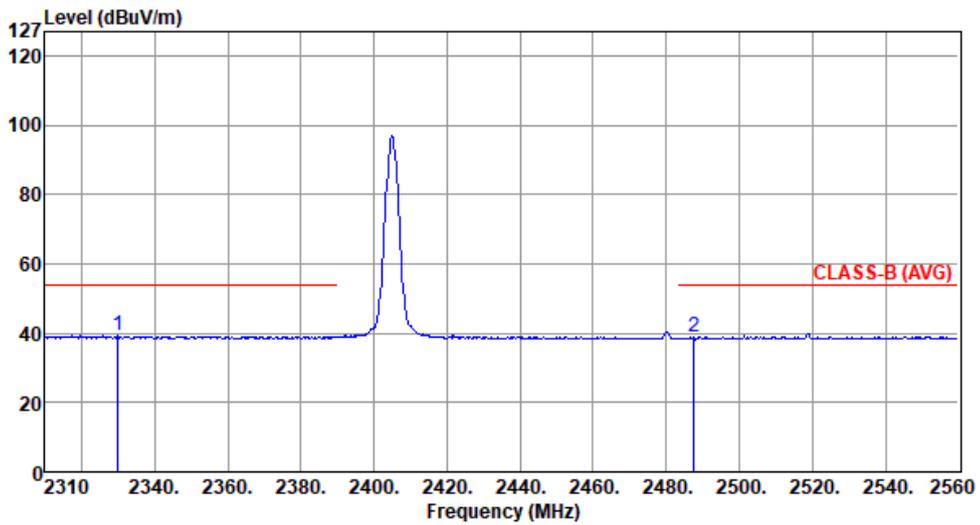
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	4.96G	42.33	54.00	-11.67	42.65	3	Vertical	189	2.12	-	31.44	6.86	38.62
PK	4.96G	51.85	74.00	-22.15	52.17	3	Vertical	189	2.12	-	31.44	6.86	38.62
AV	7.44G	41.80	54.00	-12.20	36.40	3	Vertical	211	1.07	-	36.28	8.66	39.54
PK	7.44G	54.08	74.00	-19.92	48.68	3	Vertical	211	1.07	-	36.28	8.66	39.54



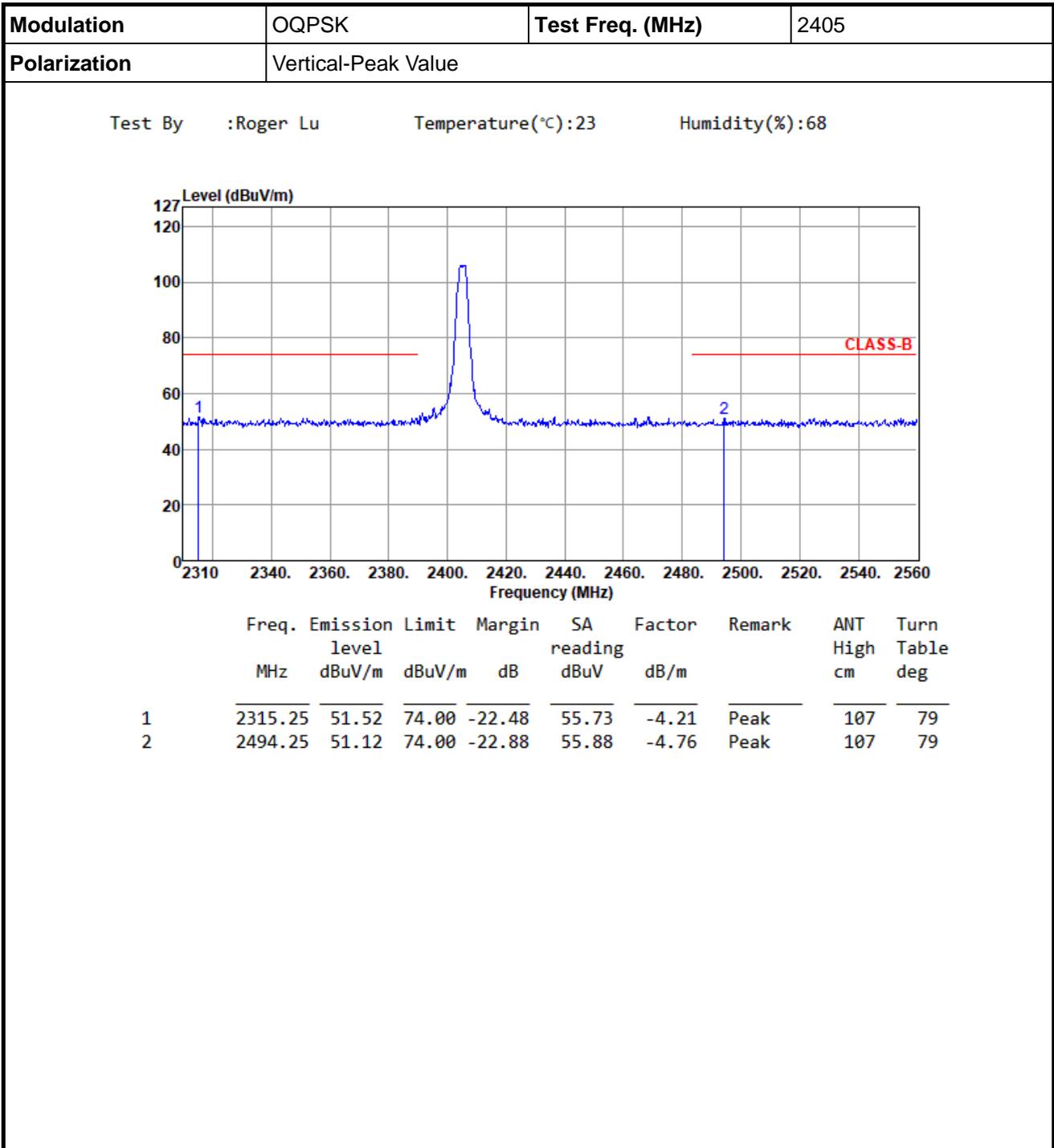


Modulation	OQPSK	Test Freq. (MHz)	2405
Polarization	Horizontal-Average Value		

Test By : Roger Lu Temperature(°C):23 Humidity(%):68



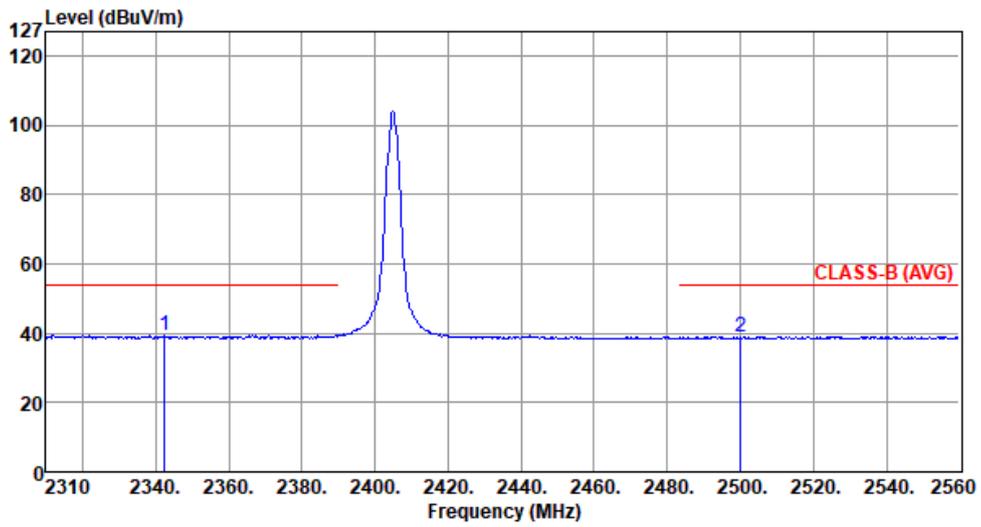
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2330.00	39.27	54.00	-14.73	43.58	-4.31	Average	100	77
2	2487.50	38.82	54.00	-15.18	43.59	-4.77	Average	100	77



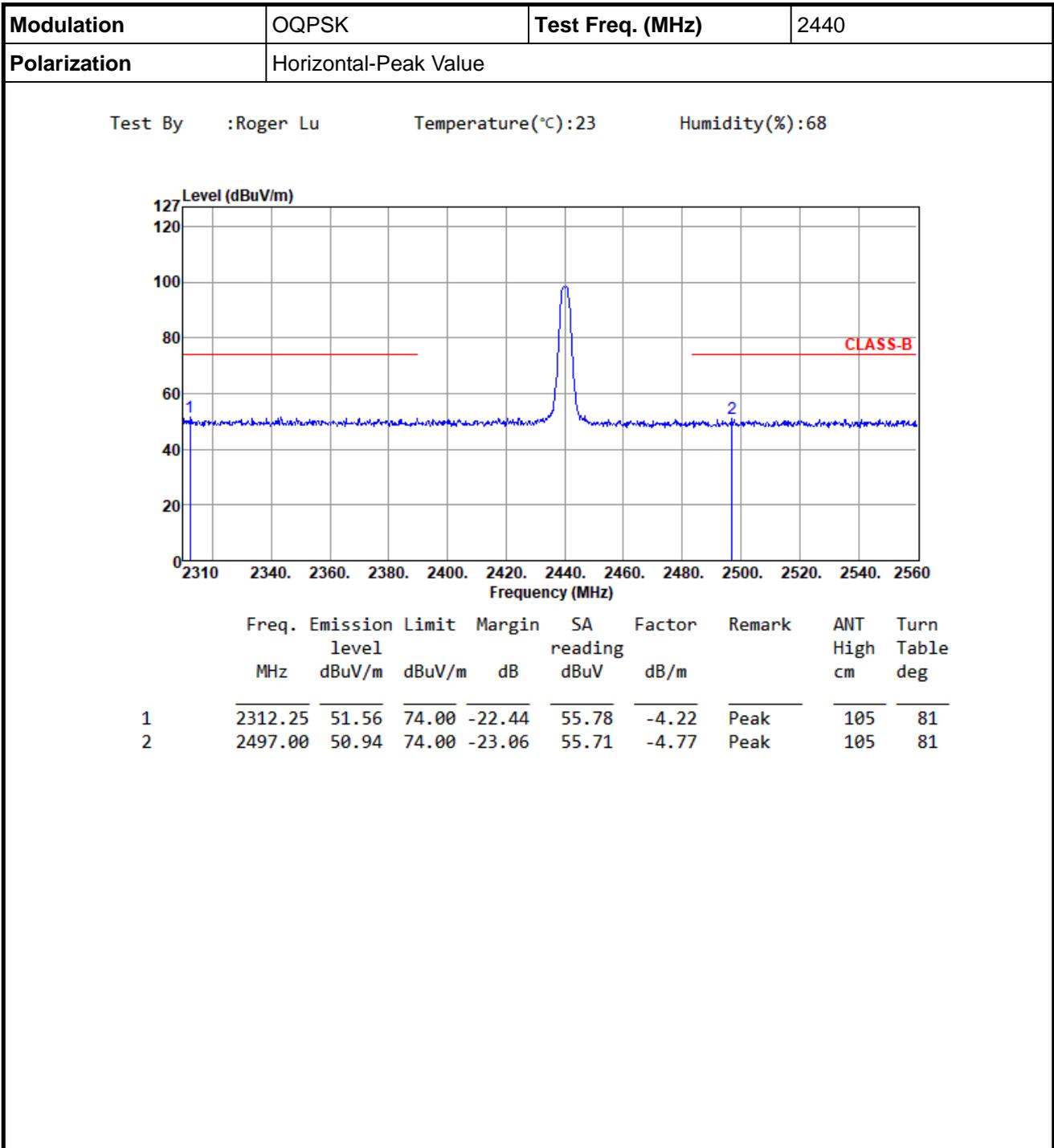


Modulation	OQPSK	Test Freq. (MHz)	2405
Polarization	Vertical -Average Value		

Test By :Roger Lu Temperature(°C):23 Humidity(%):68



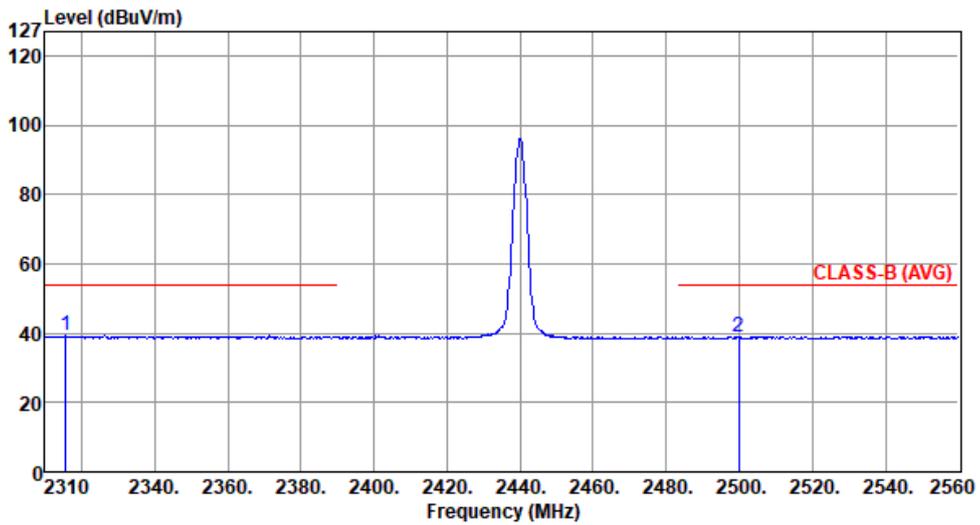
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2342.50	39.28	54.00	-14.72	43.59	-4.31	Average	107	79
2	2500.00	38.97	54.00	-15.03	43.73	-4.76	Average	107	79



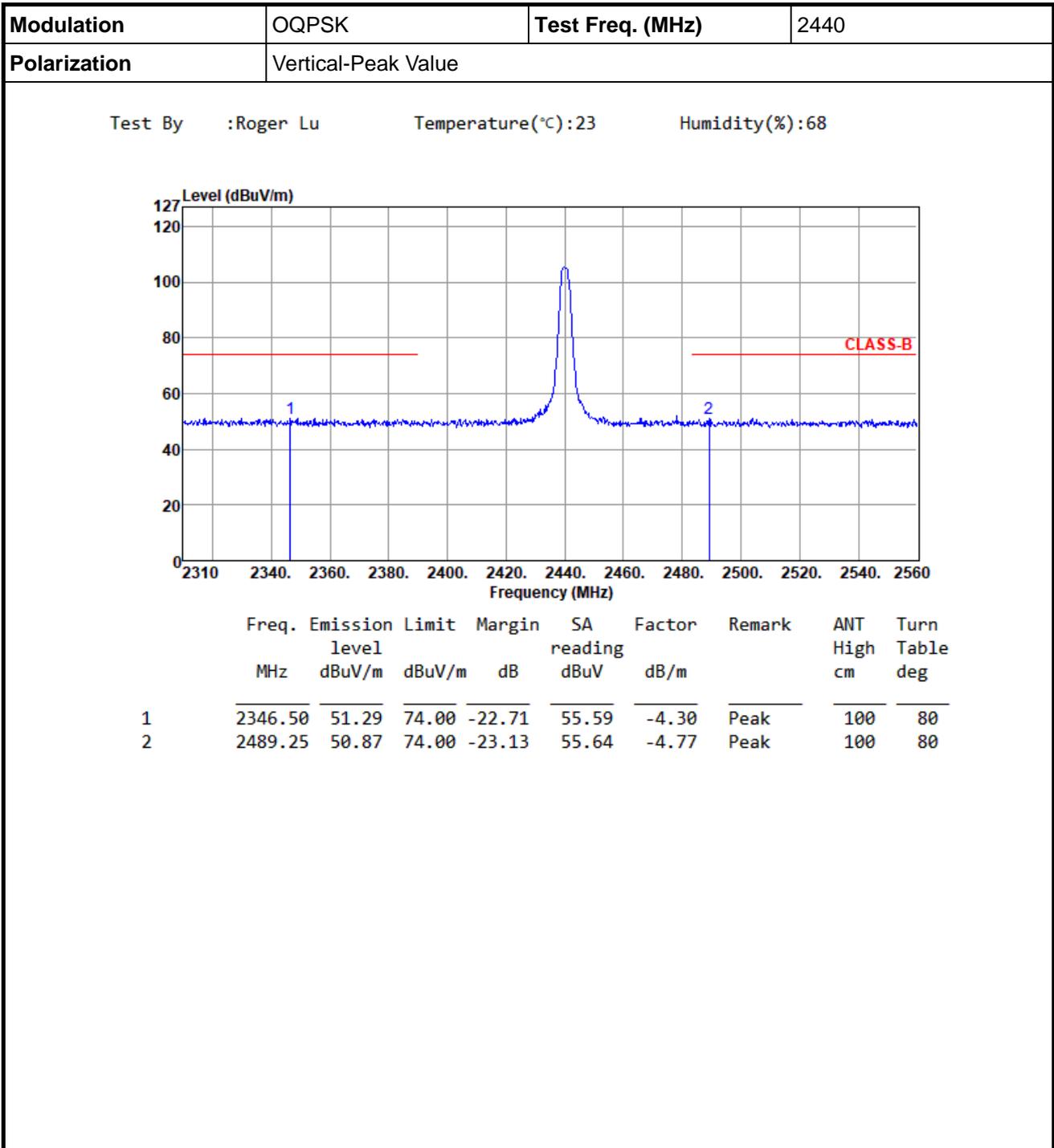


Modulation	OQPSK	Test Freq. (MHz)	2440
Polarization	Horizontal-Average Value		

Test By :Roger Lu Temperature(°C):23 Humidity(%):68



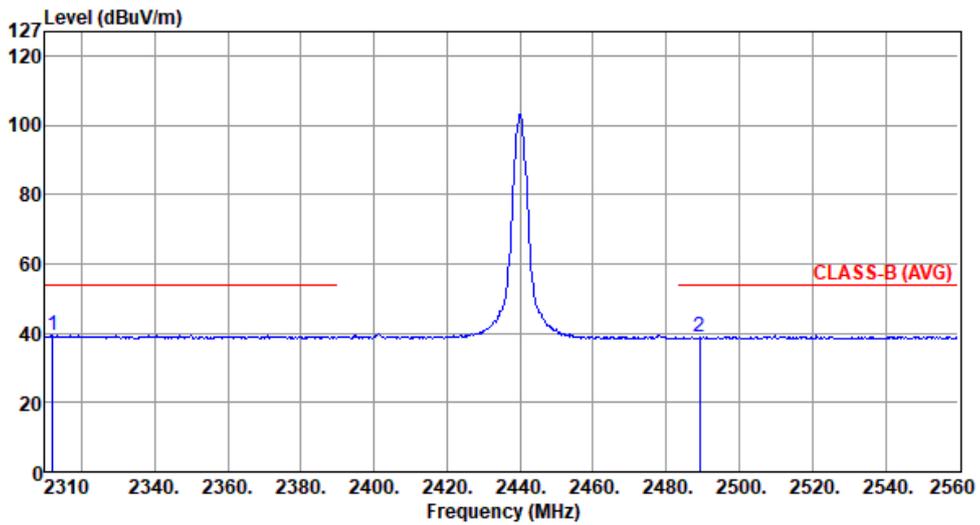
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2315.75	39.30	54.00	-14.70	43.51	-4.21	Average	105	81
2	2499.75	39.04	54.00	-14.96	43.81	-4.77	Average	105	81



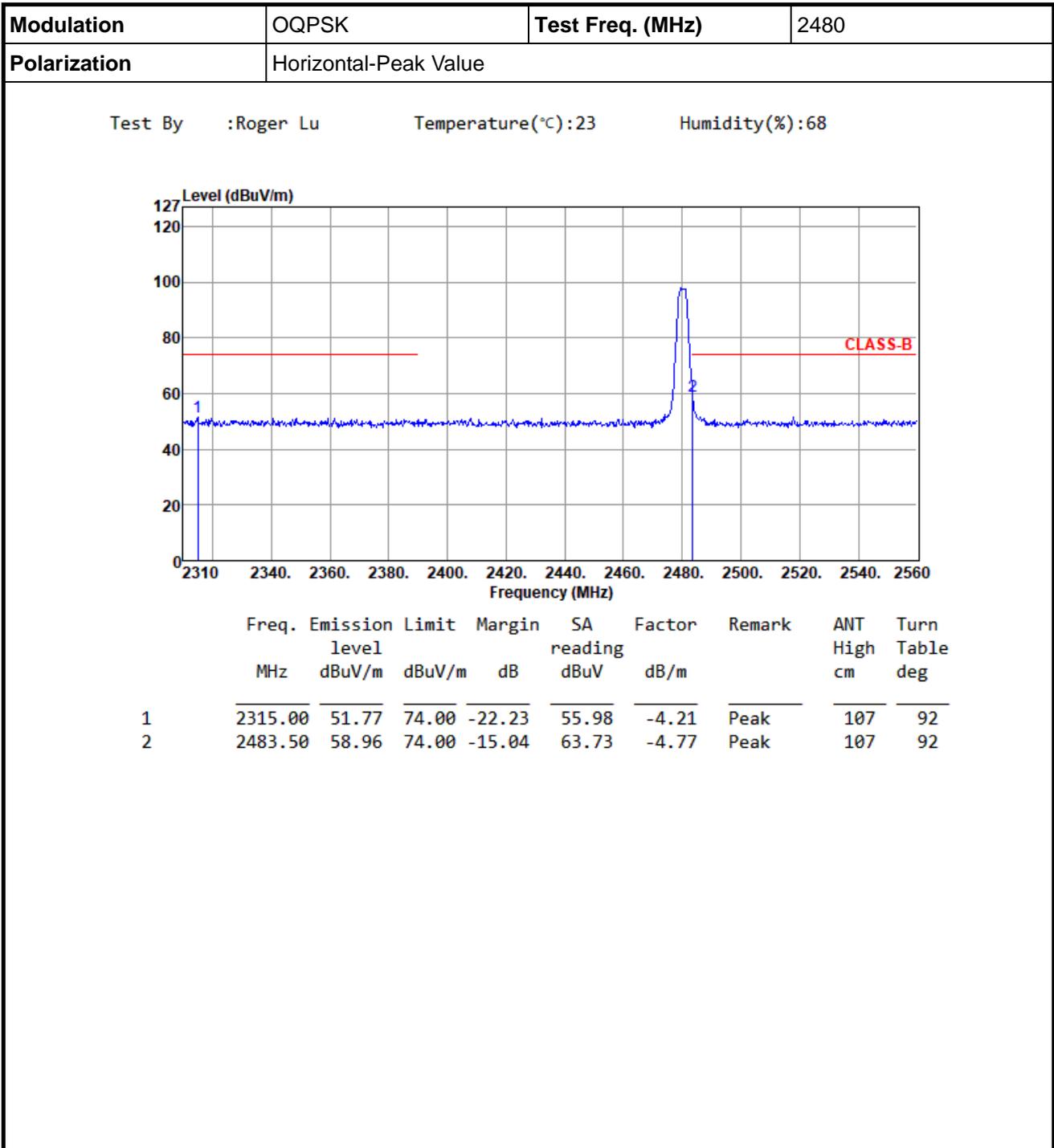


Modulation	OQPSK	Test Freq. (MHz)	2440
Polarization	Vertical -Average Value		

Test By :Roger Lu Temperature(°C):23 Humidity(%):68



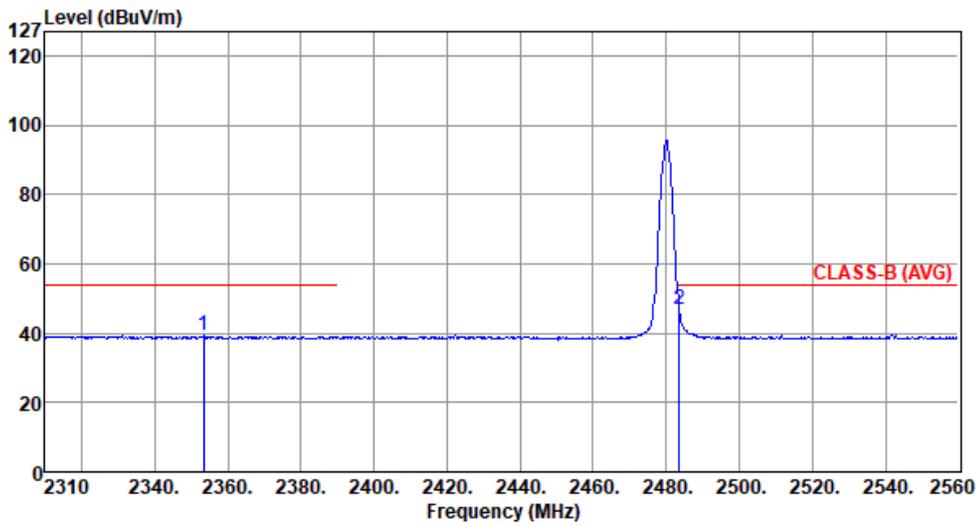
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2312.00	39.25	54.00	-14.75	43.47	-4.22	Average	100	80
2	2489.25	38.95	54.00	-15.05	43.72	-4.77	Average	100	80



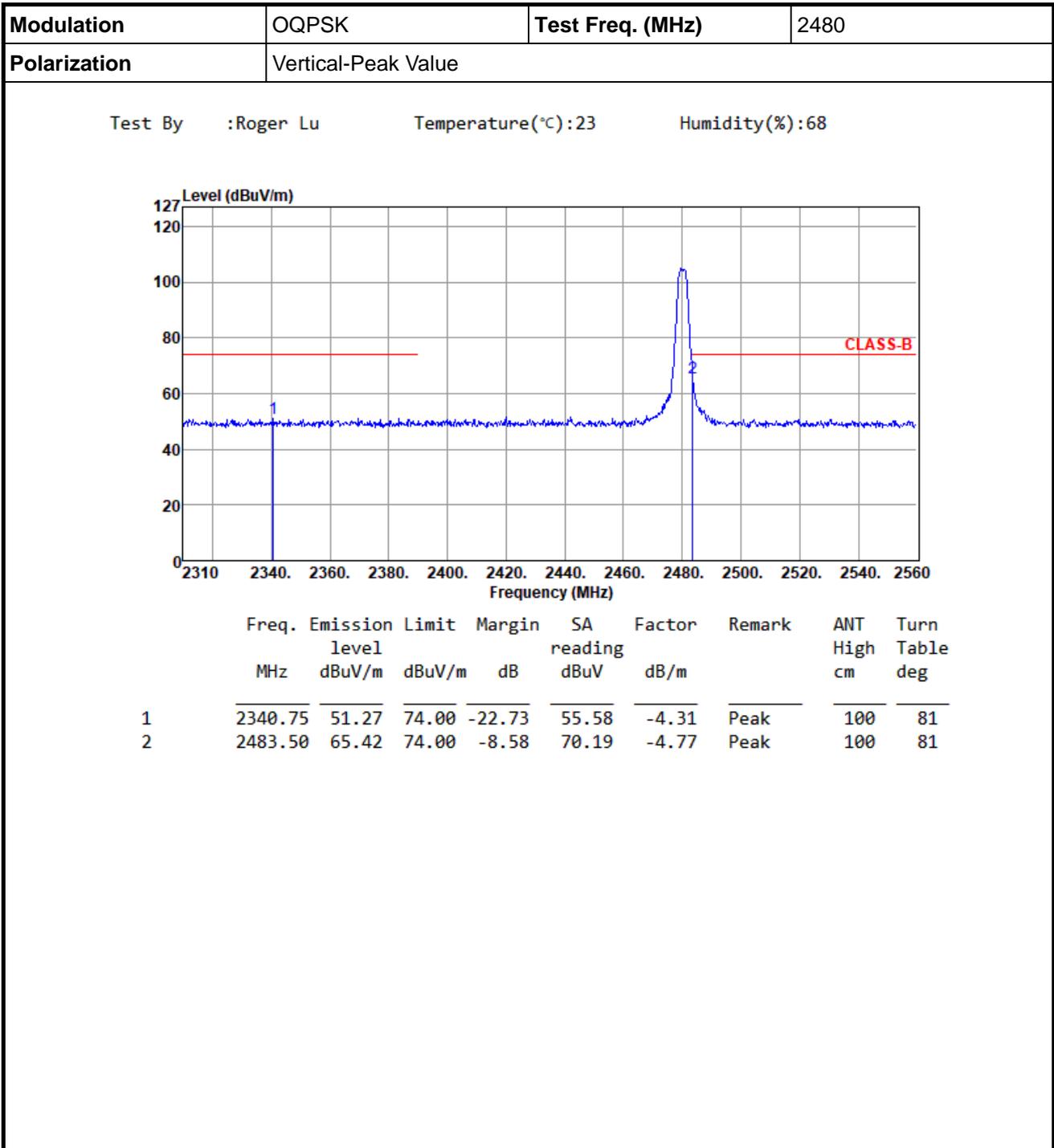


Modulation	OQPSK	Test Freq. (MHz)	2480
Polarization	Horizontal-Average Value		

Test By :Roger Lu Temperature(°C):23 Humidity(%):68



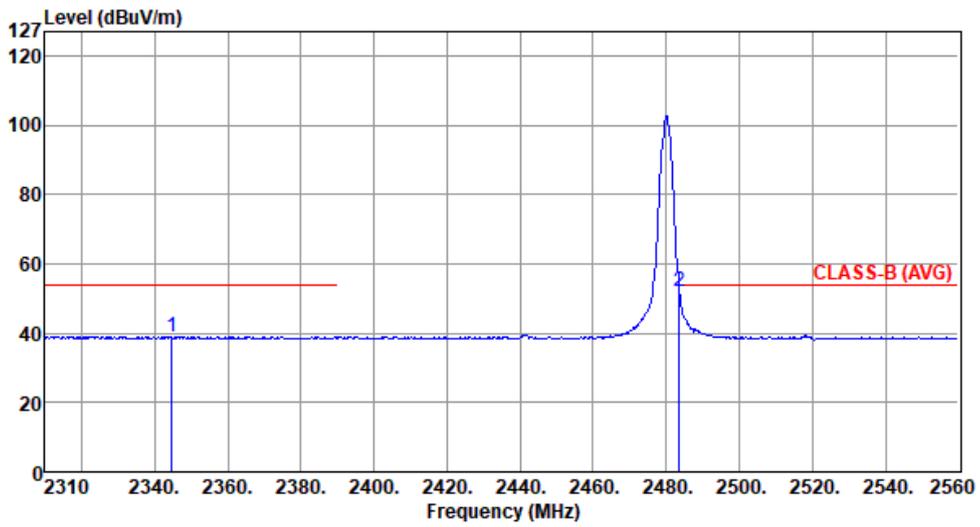
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2353.50	39.21	54.00	-14.79	43.52	-4.31	Average	107	92
2	2483.50	46.89	54.00	-7.11	51.66	-4.77	Average	107	92



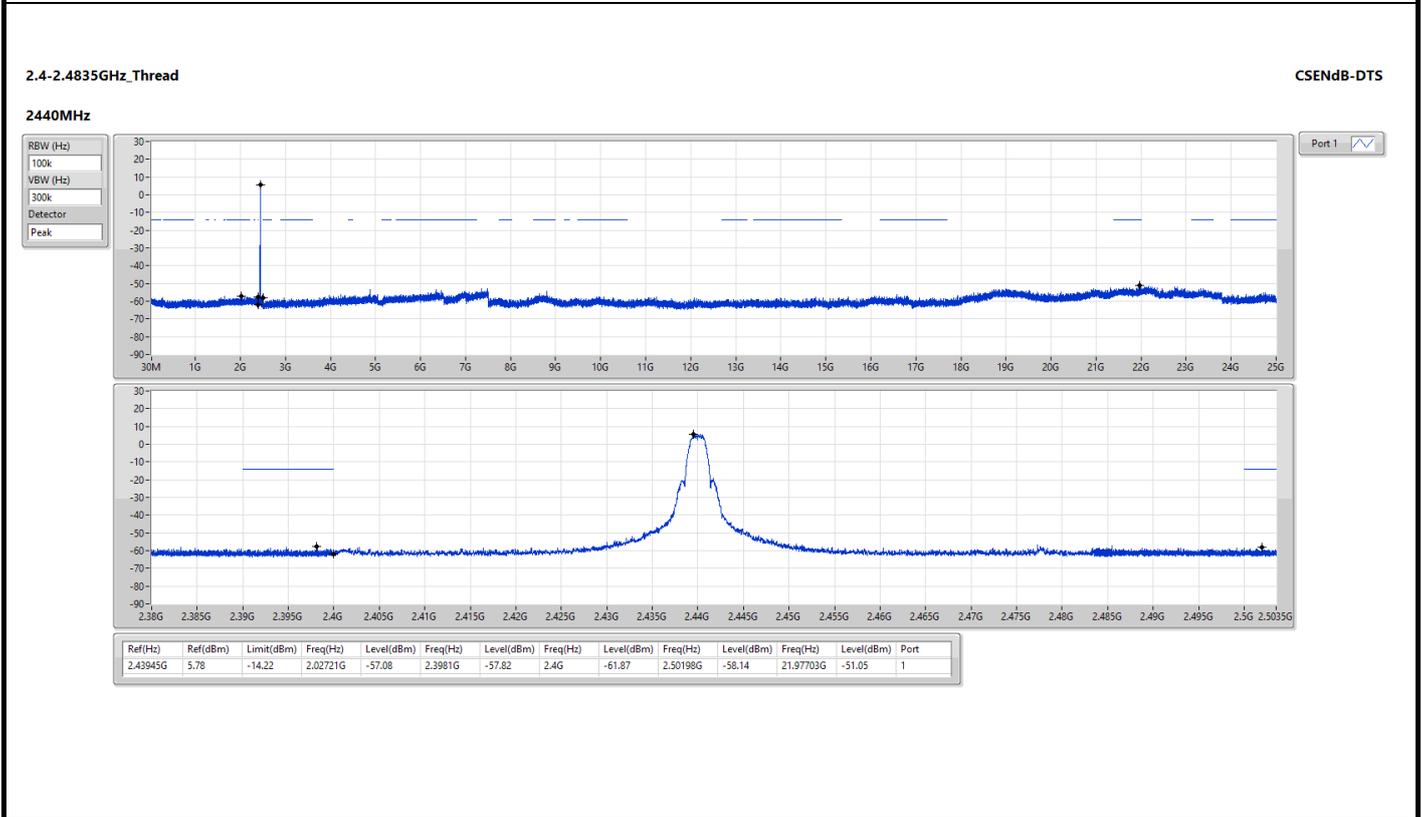
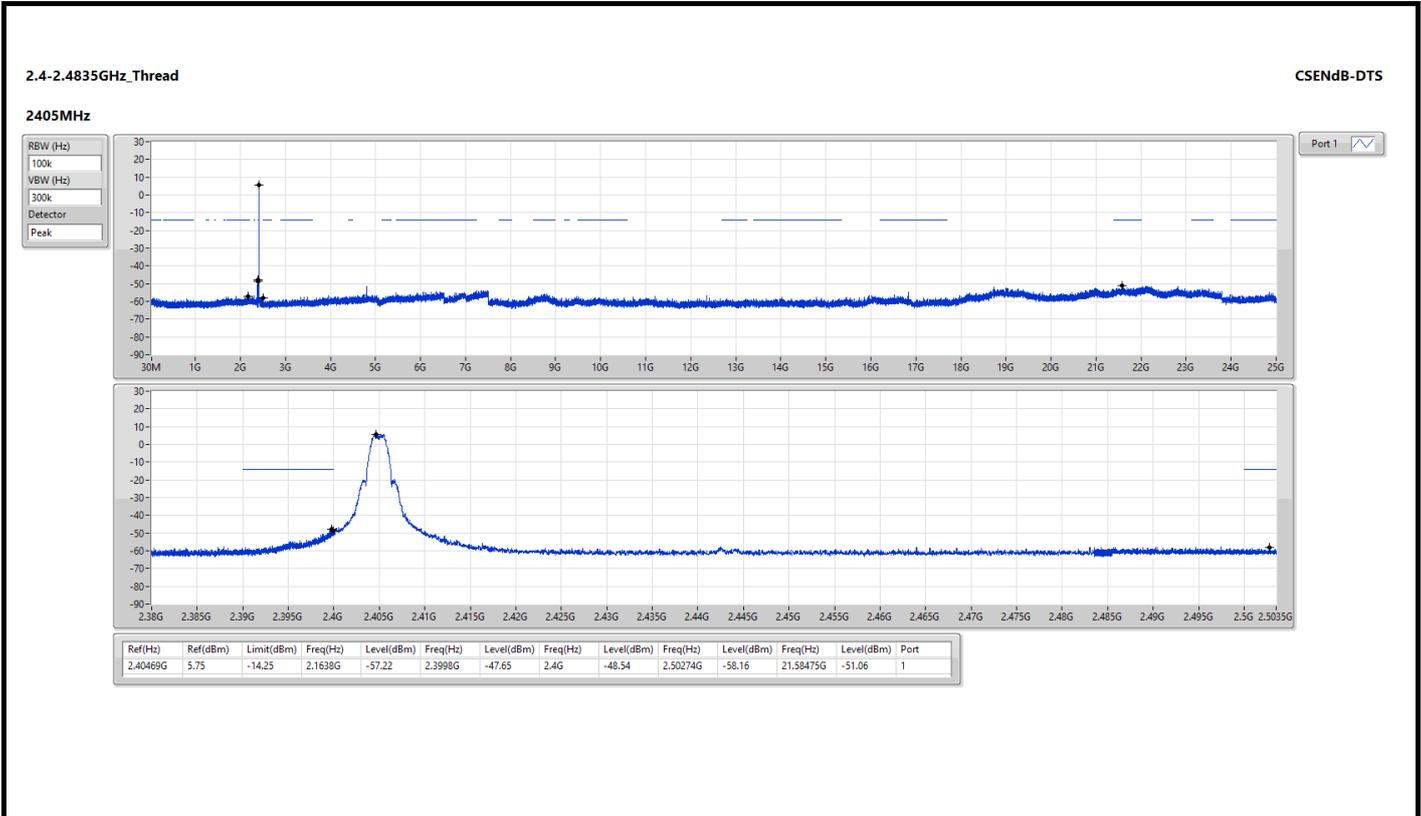


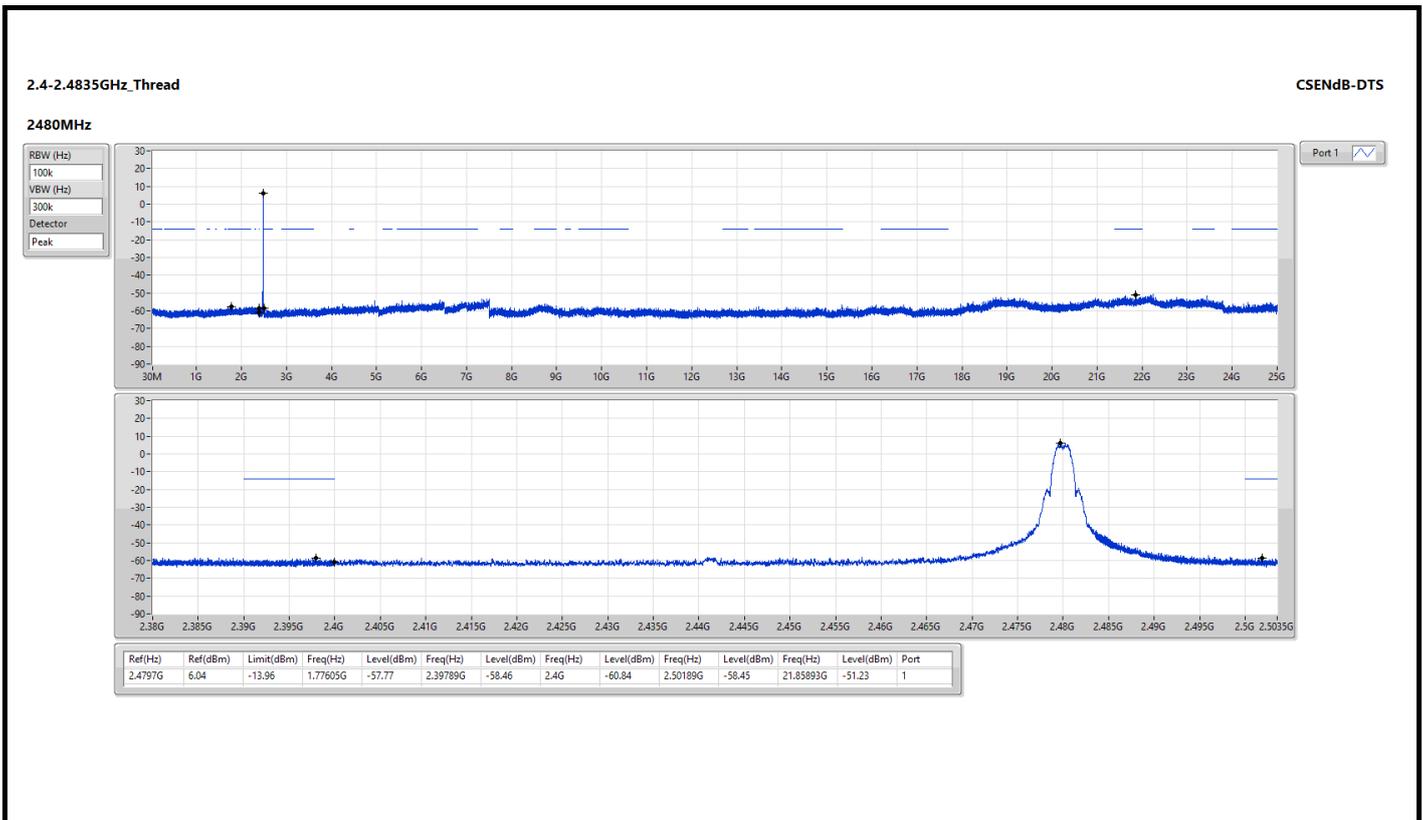
Modulation	OQPSK	Test Freq. (MHz)	2480
Polarization	Vertical -Average Value		

Test By :Roger Lu Temperature(°C):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2344.75	39.09	54.00	-14.91	43.40	-4.31	Average	100	81
2	2483.50	51.97	54.00	-2.03	56.74	-4.77	Average	100	81

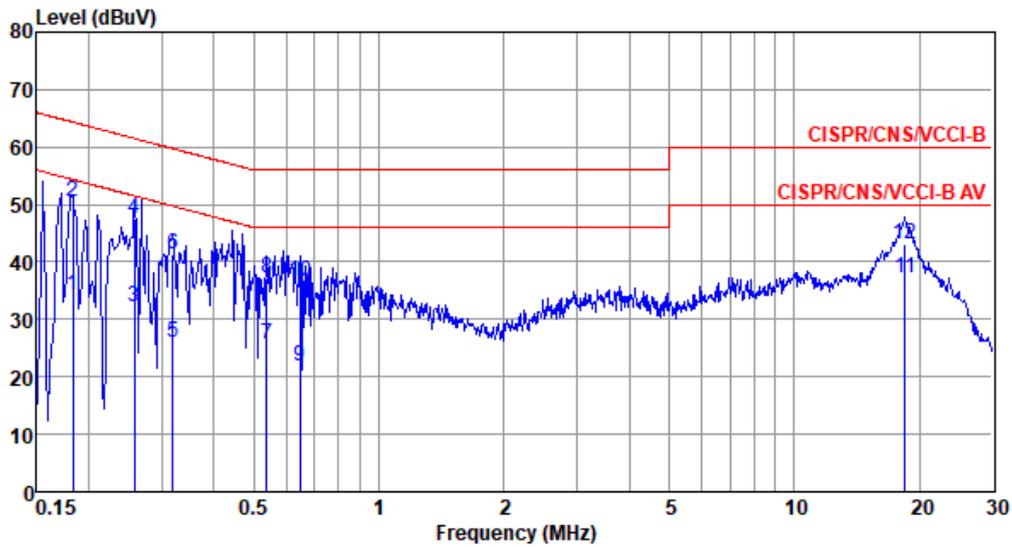






Modulation Mode	OQPSK	Test Freq. (MHz)	2480
Power Phase	Line		

Test by : Brad Wu Temperature: 23°C Humidity: 65%



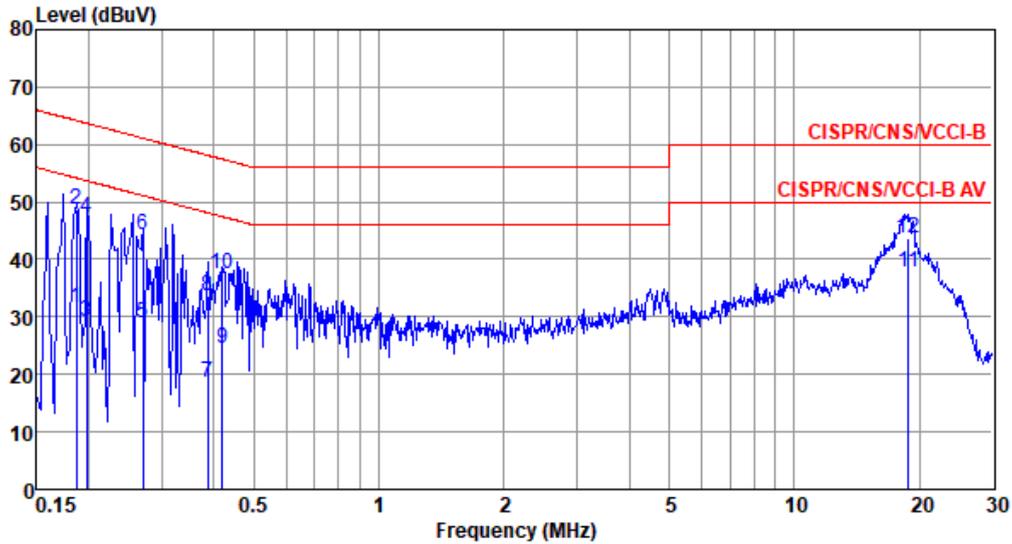
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.183	34.12	54.33	-20.21	24.15	9.64	0.08	0.25	Average
2	0.183	50.35	64.33	-13.98	40.38	9.64	0.08	0.25	QP
3	0.258	32.15	51.51	-19.36	22.15	9.64	0.08	0.28	Average
4	0.258	47.54	61.51	-13.97	37.54	9.64	0.08	0.28	QP
5	0.318	25.87	49.75	-23.88	15.84	9.64	0.09	0.30	Average
6	0.318	41.21	59.75	-18.54	31.18	9.64	0.09	0.30	QP
7	0.538	25.62	46.00	-20.38	15.54	9.64	0.09	0.35	Average
8	0.538	37.32	56.00	-18.68	27.24	9.64	0.09	0.35	QP
9	0.644	21.73	46.00	-24.27	11.62	9.65	0.10	0.36	Average
10	0.644	36.70	56.00	-19.30	26.59	9.65	0.10	0.36	QP
11*	18.524	37.29	50.00	-12.71	26.44	9.69	0.54	0.62	Average
12	18.524	43.13	60.00	-16.87	32.28	9.69	0.54	0.62	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mode	OQPSK	Test Freq. (MHz)	2480
Power Phase	Neutral		

Test by : Brad Wu Temperature: 23°C Humidity: 65%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.186	31.52	54.20	-22.68	21.61	9.64	0.08	0.19	Average
2	0.186	48.75	64.20	-15.45	38.84	9.64	0.08	0.19	QP
3	0.198	29.36	53.71	-24.35	19.44	9.64	0.08	0.20	Average
4	0.198	47.26	63.71	-16.45	37.34	9.64	0.08	0.20	QP
5	0.270	29.06	51.12	-22.06	19.11	9.64	0.08	0.23	Average
6	0.270	44.14	61.12	-16.98	34.19	9.64	0.08	0.23	QP
7	0.387	18.51	48.12	-29.61	8.53	9.63	0.09	0.26	Average
8	0.387	33.76	58.12	-24.36	23.78	9.63	0.09	0.26	QP
9	0.419	24.59	47.46	-22.87	14.61	9.63	0.09	0.26	Average
10	0.419	37.56	57.46	-19.90	27.58	9.63	0.09	0.26	QP
11*	18.820	37.76	50.00	-12.24	26.81	9.78	0.54	0.63	Average
12	18.820	43.55	60.00	-16.45	32.60	9.78	0.54	0.63	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).