





FCC C2PC Test Report

FCC ID : E52-K777

Equipment : WLAN (11ac/a/b/g/n 1x1) USB module

Model No. : DHUA-K77-7

Brand Name : KYOCERA

Applicant : KYOCERA Document Solutions Inc.

Address : 2-28, 1-chome, Tamatsukuri, Chuo-Ku, Osaka,

540-8585 JAPAN

Standard : 47 CFR FCC Part 15.247

Received Date : Sep. 18, 2023

Tested Date : Sep. 22 ~ Sep. 26, 2023

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 Che๗/ Assistant Manager 🛾 Gary Chang≀/ Managei

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Release Record

Report No.	Version	Description	Issued Date
FR900201-04AC	Rev. 01	Initial issue	Dec. 07, 2023

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.150MHz 47.02 (Margin -18.89dB) - QP	Pass
15.247(d)	Unwanted Emissions	[dBuV/m at 3m]: 2483.50MHz	Pass
15.209	Ortwanted Emissions	52.99 (Margin -1.01dB) - AV	F 455
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 18.15	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.

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1 General Description

1.1 Information

This report is issued as a Class II Permissive Change.

The modification is only concerned with adding channel 12 (2467MHz) and channel 13(2472MHz) by software setting.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS		
2400-2483.5	b	2412-2472	1-13 [13]	1	1-11 Mbps		
2400-2483.5	g	2412-2472	1-13 [13]	1	6-54 Mbps		
2400-2483.5	n (HT20)	2412-2472	1-13 [13]	1	MCS 0-7		

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.

Note 2: DSSS-DBPSK, DQPSK, CCK modulation

OFDM - BPSK, QPSK, 16QAM and 64QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Туре	Connector	Gain (dBi)
1	ANT-0	PCB printed ANT	NA	2.69

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host
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1.1.4 Accessories

N/A

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1.1.5 Channel List

Frequency band (MHz)	2400~2483.5				
802.11 b / g / n HT20					
Channel	Frequency(MHz)				
1	2412				
2	2417				
3	2422				
4	2427				
5	2432				
6	2437				
7	2442				
8	2447				
9	2452				
10	2457				
11	2462				
12	2467				
13	2472				

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1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, V 3.0.264.0					
	Mode	Duty Cycle (%)	Duty Factor (dB)			
Duty Cycle and Duty	11b	99.53%	0.02			
Factor	11g	95.93%	0.18			
	HT20	95.45%	0.20			

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2462	17.5
11b	2472	14.5
11g	2462	13
11g	2472	6.5
HT20	2462	12.5
HT20	2472	6

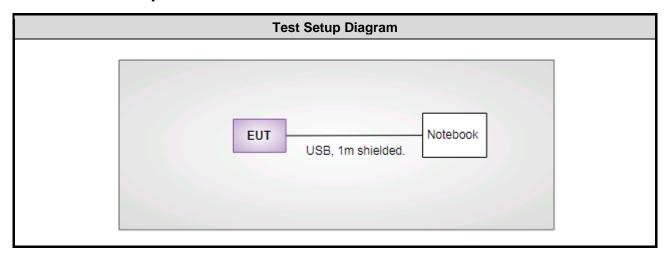
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1.2 Local Support Equipment List

	Support Equipment List							
No.	Equipment	Brand	Model	FCC ID	Remarks			
1	Notebook	DELL	Latitude E6430	DoC				

1.3 Test Setup Chart



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1.4 The Equipment List

R&S	Model No. ESR3 ENV216	Serial No. 101658 101579	Calibration Date Feb. 17, 2023 May. 09, 2023	Calibration Until Feb. 16, 2024 May. 08, 2024			
Brand N R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024			
R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024			
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
R&S	ENV216	101579	May. 09, 2023	May 08 2024			
			,	11103. 30, 2024			
ARZBECK Schw	varzbeck 8127	8127667	Jan .03, 2023	Jan .02, 2024			
Voken C	FD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023			
NA	50	01	Jun. 14, 2023	Jun. 13, 2024			
Measurement Software AUDIX e3 6.120210k NA NA NA							
	NA UDIX	NA 50 UDIX e3	NA 50 01 UDIX e3 6.120210k	NA 50 01 Jun. 14, 2023			

Test Item	Radiated Emission							
Test Site	966 chamber3 / (03Cl	966 chamber3 / (03CH03-WS)						
Tested Date	Sep. 22 ~ Sep. 26, 2023							
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until			
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024			
Spectrum Analyzer	R&S	FSV40	101499	Mar. 16, 2023	Mar. 15, 2024			
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023			
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2023	Jul. 03, 2024			
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 15, 2022	Dec. 14, 2023			
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023			
Preamplifier	EMC	EMC02325	980187	Jul. 10, 2023	Jul. 09, 2024			
Preamplifier	EMC	EMC118A45SE	980897	Aug. 01, 2023	Jul. 31, 2024			
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024			
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023			
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 22, 2023	Sep. 21, 2024			
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 22, 2023	Sep. 21, 2024			
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 22, 2023	Sep. 21, 2024			
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 22, 2023	Sep. 21, 2024			
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 22, 2023	Sep. 21, 2024			
Attenuator	Pasternack	PE7005-10	10-3	Oct. 14, 2022	Oct. 13, 2023			
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 28, 2022	Sep. 27, 2023			
Measurement Software AUDIX e3 6.120210g NA NA								
Note: Calibration Inter	rval of instruments liste	d above is one year.						

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Test Item	RF Conducted					
Test Site	(TH01-WS)					
Tested Date	Sep. 26, 2023					
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024	
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023	
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023	
Attenuator	Pasternack	PE7005-10	10-2	Oct. 06, 2022	Oct. 05, 2023	
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA	
Note: Calibration Inte	Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247 ANSI C63.10-2013

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			
Unwanted Emission ≤ 1GHz	±3.96 dB			
Unwanted Emission > 1GHz	±4.51 dB			

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2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-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.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

FCC Designation No.: TW0009FCC site registration No.: 207696

➤ ISED#: 10807C

➤ 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	11b	2467	1 Mbps	
Unwanted Emissions ≤ 1GHz	11b	2467	1 Mbps	
Unwanted Emissions >1GHz Conducted Output Power 6dB bandwidth Power spectral density	11b 11g HT20	2467 / 2472	1 Mbps 6 Mbps MCS 0	

NOTE:

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^{1.} The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.



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) = 100 kHz, Video bandwidth = 300 kHz.
- Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

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 Results

Ambient Condition	24°C / 64%	Tested By	Akun Chung
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Refer to Appendix A.

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3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 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 Results

Ambient Condition	24°C / 64%	Tested By	Akun Chung

Refer to Appendix B.

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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.

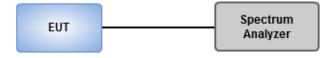
Average PSD, duty cycle ≥ 98%

- 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.
- Add 10 log (1/x), where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition 24°C / 64%	Tested By	Akun Chung
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Refer to Appendix C.

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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)	Frequency Range (MHz) Field Strength (uV/m) Field Strength (dBuV/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

Qusai-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.

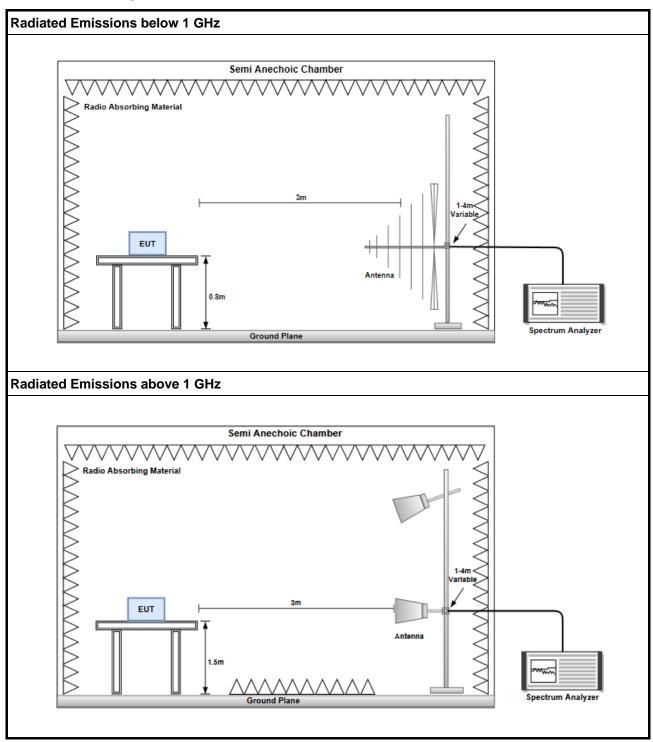
Note:

- 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.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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3.4.3 Test Setup



3.4.4 Test Results

Refer to Appendix D.

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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 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

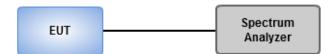
Reference level measurement

- 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 Test Results

Ambient Condition	24°C / 64%	Tested By	Akun Chung
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Refer to Appendix E.

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3.6 AC Power Line Conducted Emissions

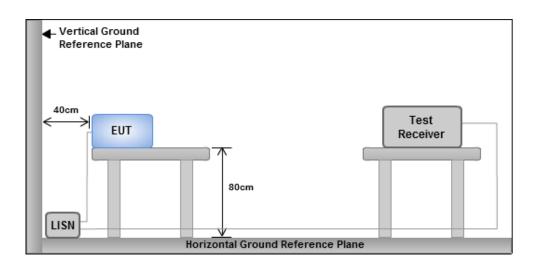
3.6.1 Limit of AC Power Line Conducted Emissions

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.

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.

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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

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666
No.3-1, Lane 6, Wen San 3rd
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 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan 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==

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6dB and Occupied Bandwidth

Appendix A

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	ı	-
802.11b_Nss1,(1Mbps)_1TX	7.6M	13.043M	13M0G1D	7.125M	13.028M
802.11g_Nss1,(6Mbps)_1TX	15.3M	16.228M	16M2D1D	15.1M	16.228M
802.11n HT20_Nss1,(MCS0)_1TX	15.425M	17.366M	17M4D1D	15.1M	17.366M

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

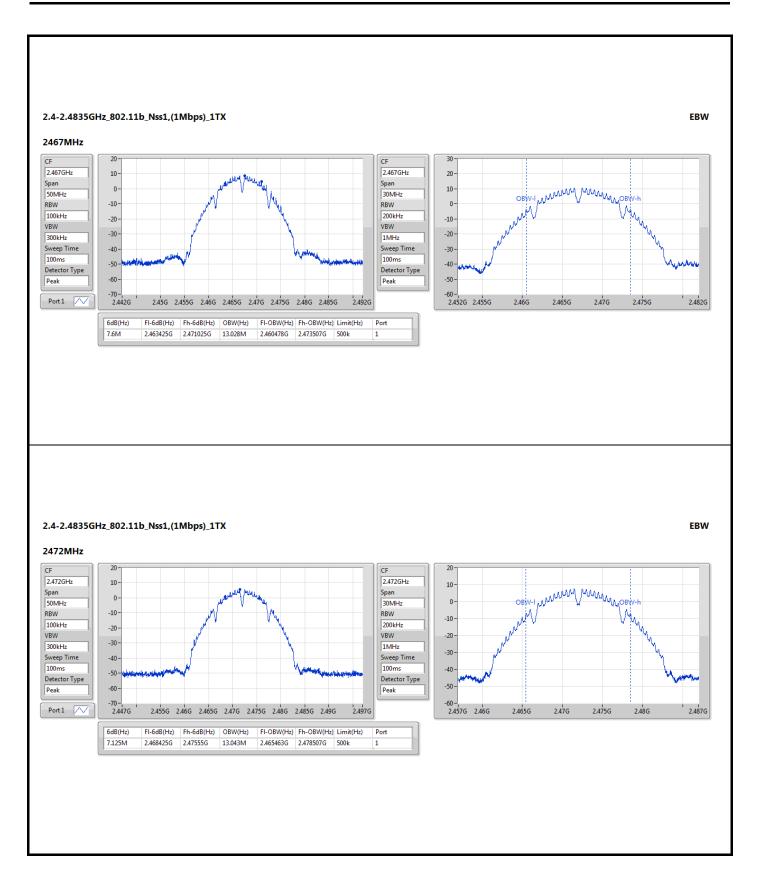
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2467MHz	Pass	500k	7.6M	13.028M
2472MHz	Pass	500k	7.125M	13.043M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2467MHz	Pass	500k	15.1M	16.228M
2472MHz	Pass	500k	15.3M	16.228M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2467MHz	Pass	500k	15.425M	17.366M
2472MHz	Pass	500k	15.1M	17.366M

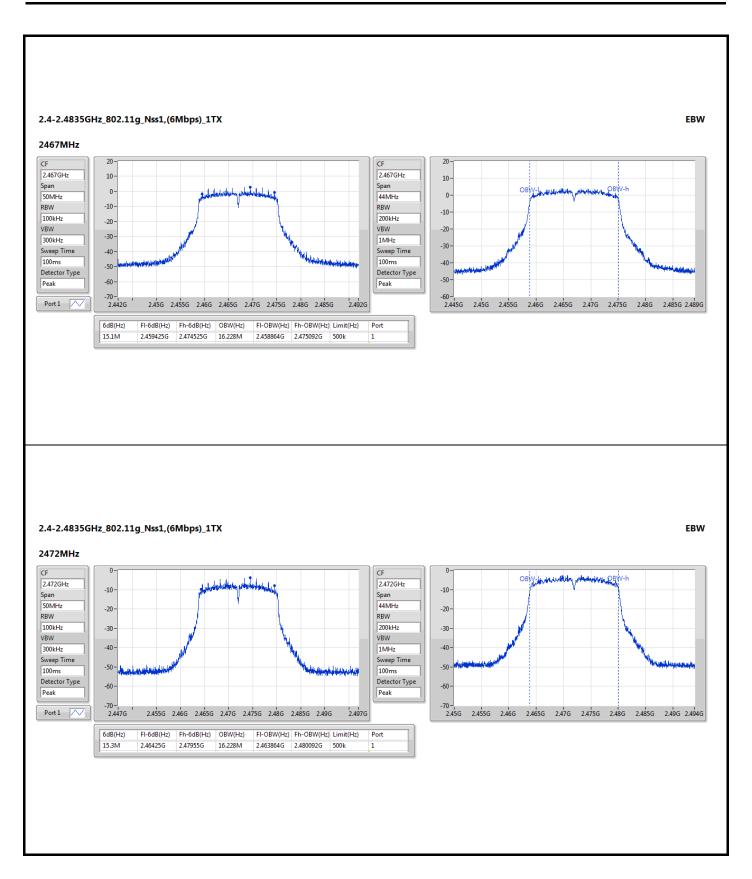
Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth

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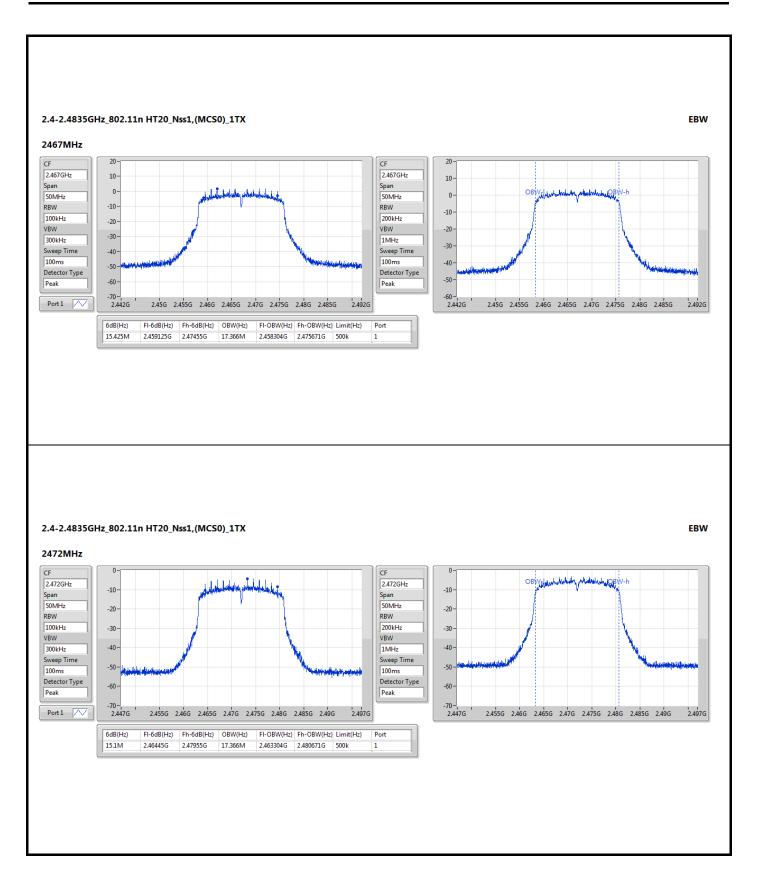














Conducted Output Power(Average)

Appendix B

Summary

Mode	Total Power	Total Power	
	(dBm)	(W)	
2.4-2.4835GHz	-	-	
802.11b_Nss1,(1Mbps)_1TX	18.15	0.06531	
802.11g_Nss1,(6Mbps)_1TX	13.29	0.02133	
802.11n HT20_Nss1,(MCS0)_1TX	12.72	0.01871	

Result

Mode	Result	DG	Port 1	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2467MHz	Pass	2.69	18.15	18.15	30.00	20.84	36.00
2472MHz	Pass	2.69	15.18	15.18	30.00	17.87	36.00
802.11g_Nss1,(6Mbps)_1TX	ı	-	-	ı	•	-	-
2467MHz	Pass	2.69	13.29	13.29	30.00	15.98	36.00
2472MHz	Pass	2.69	6.9	6.90	30.00	9.59	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2467MHz	Pass	2.69	12.72	12.72	30.00	15.41	36.00
2472MHz	Pass	2.69	6.09	6.09	30.00	8.78	36.00

DG = Directional Gain; Port X = Port X output power Note : Conducted average output power is for reference

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Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-7.63
802.11g_Nss1,(6Mbps)_1TX	-17.95
802.11n HT20_Nss1,(MCS0)_1TX	-19.15

RBW = 3kHz;

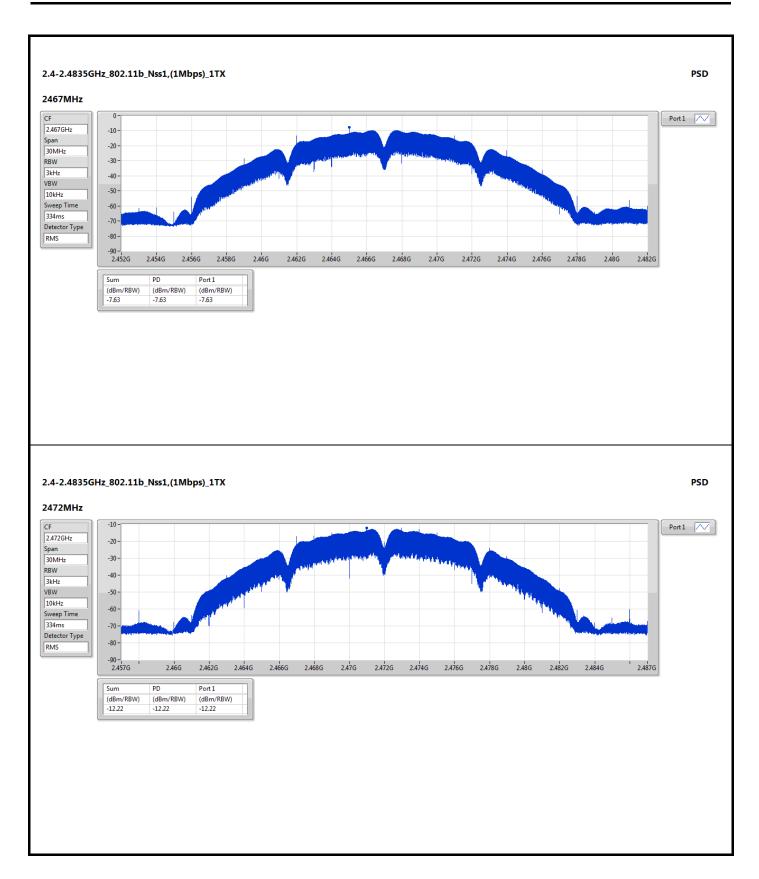
Result

Mode	Result	DG	Port 1	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2467MHz	Pass	2.69	-7.63	-7.63	8.00
2472MHz	Pass	2.69	-12.22	-12.22	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2467MHz	Pass	2.69	-17.95	-17.95	8.00
2472MHz	Pass	2.69	-24.16	-24.16	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	•	•	-
2467MHz	Pass	2.69	-19.15	-19.15	8.00
2472MHz	Pass	2.69	-25.91	-25.91	8.00

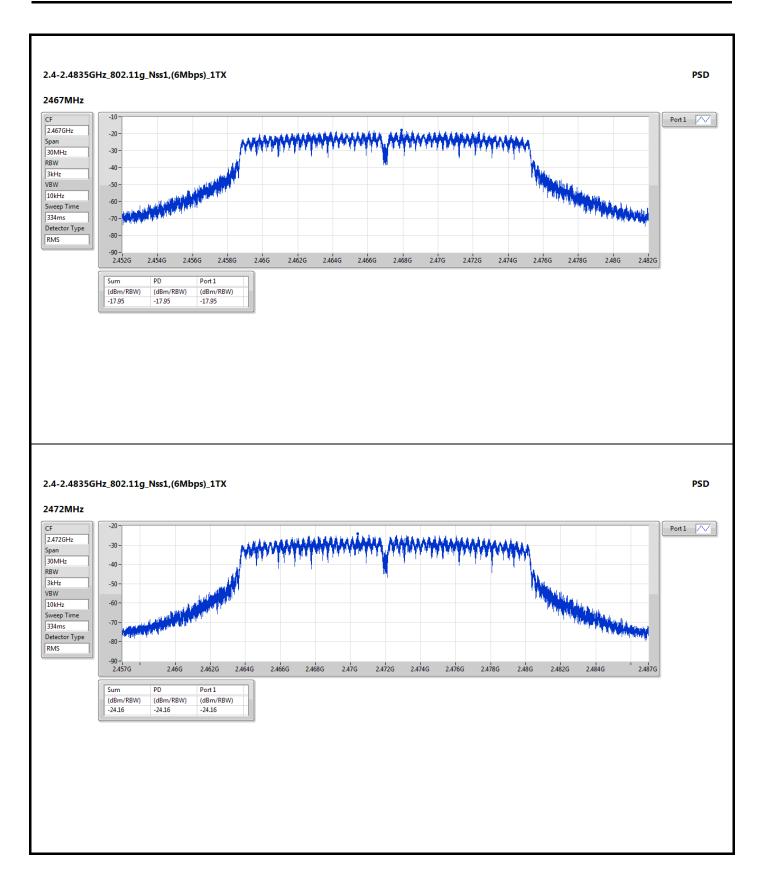
DG = Directional Gain; RBW = 3kHz;

PD = Power density; Port X = Port X Power Density;

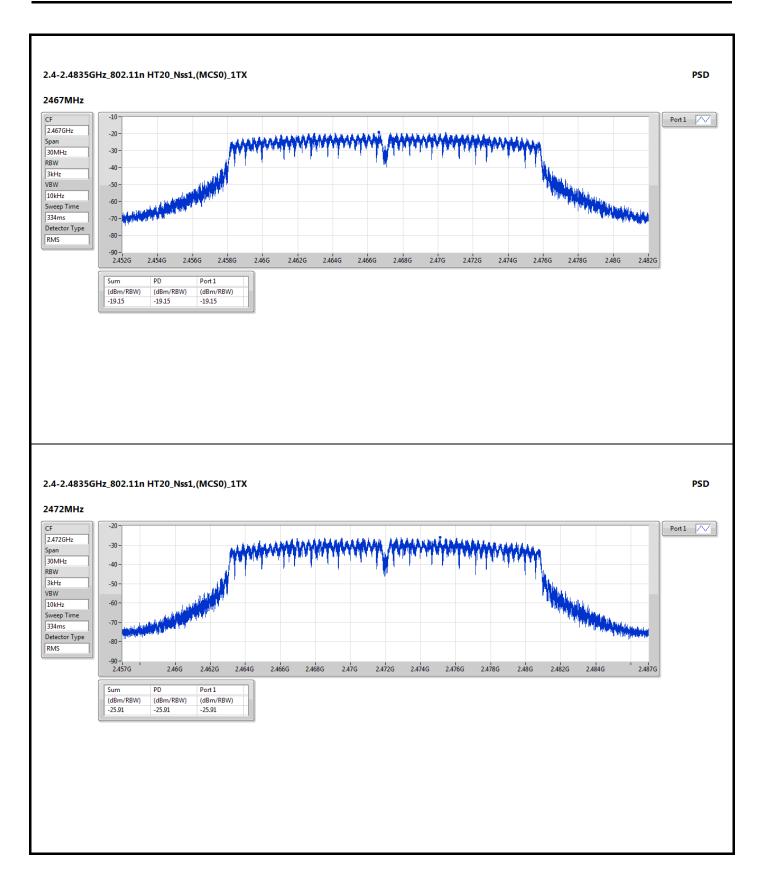






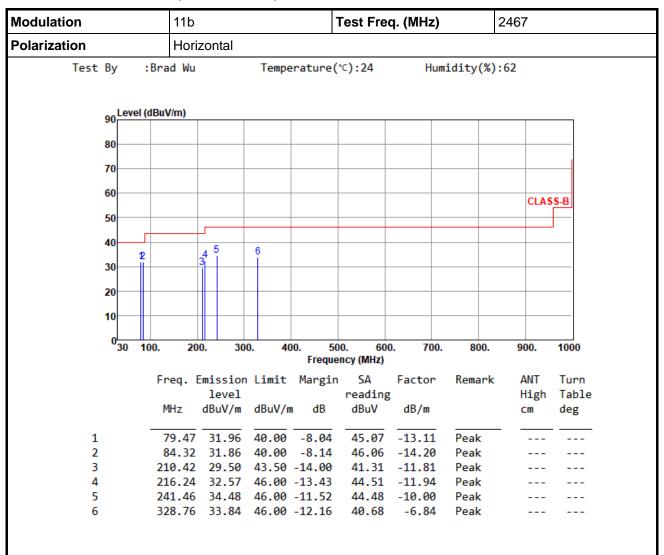








Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

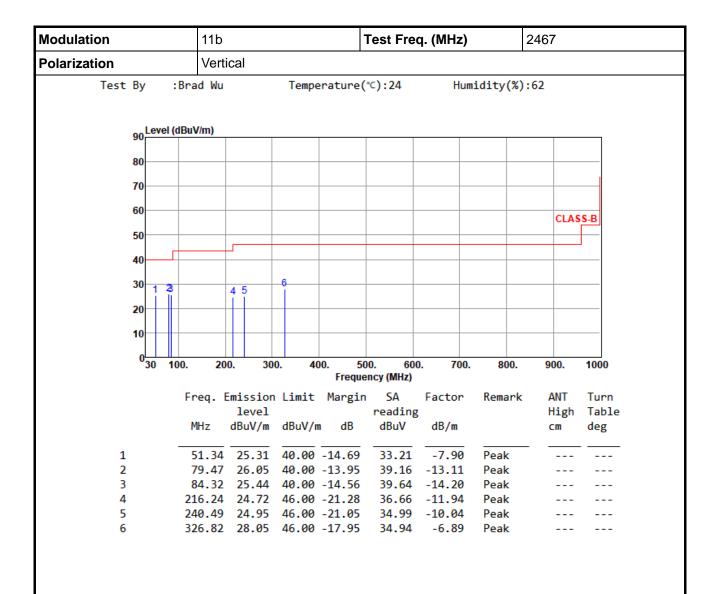
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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*Factor includes antenna factor , cable loss and amplifier gain

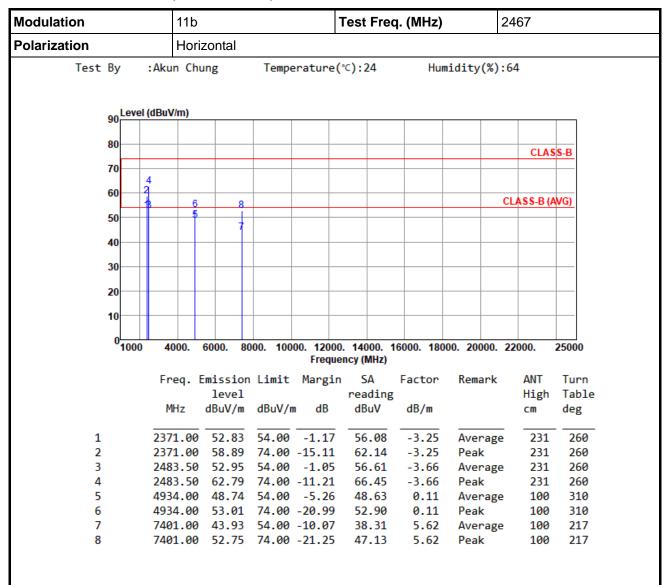
Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Unwanted Emission (Above 1GHz) for 11b



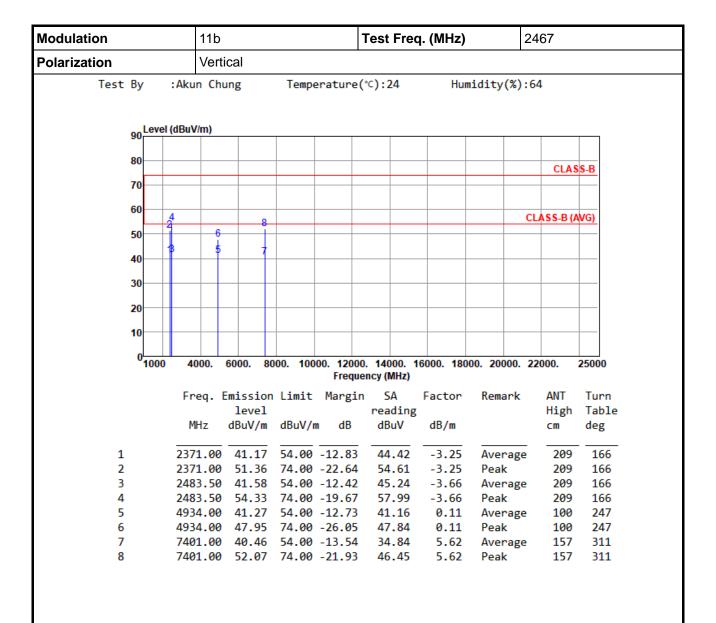
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

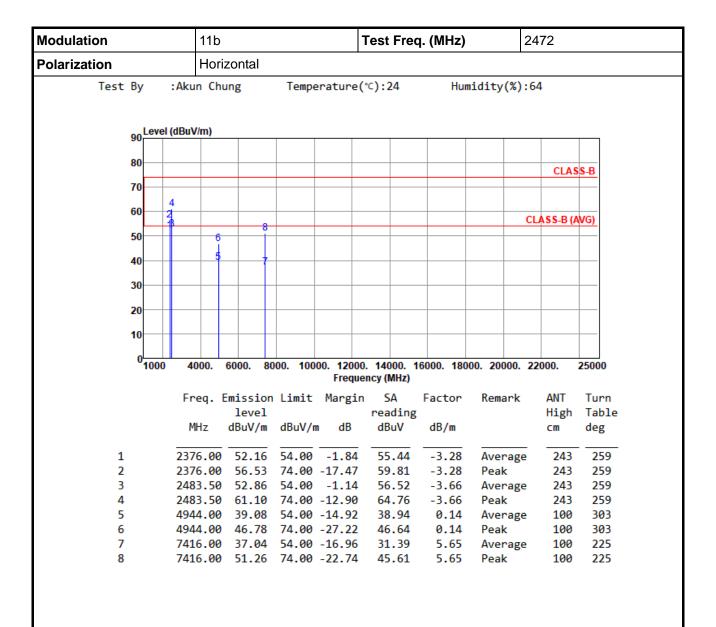
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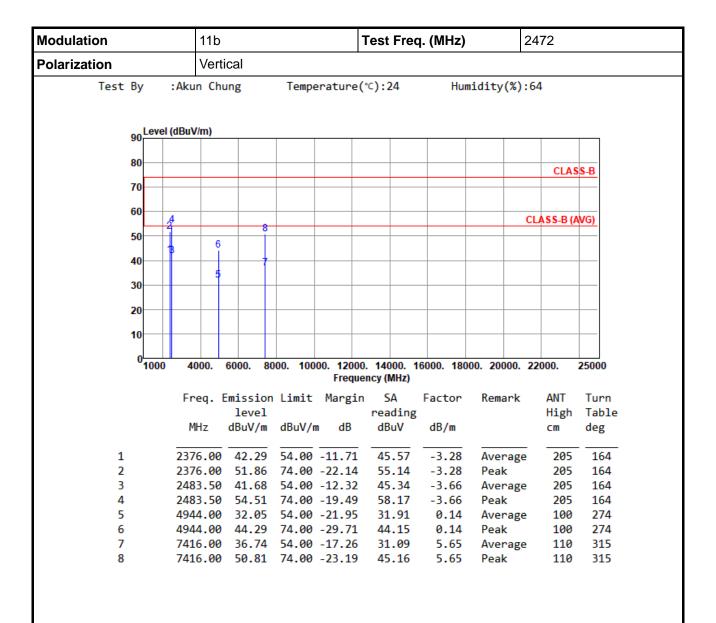
*Factor includes antenna factor, cable loss and amplifier gain





*Factor includes antenna factor, cable loss and amplifier gain

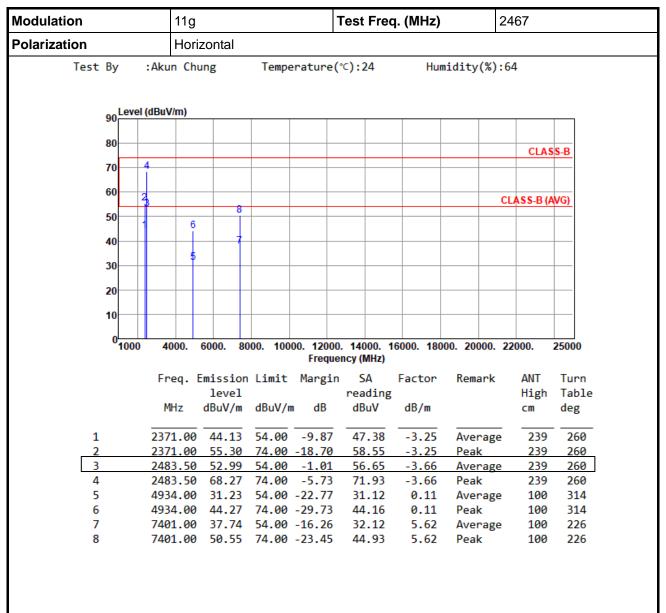




*Factor includes antenna factor, cable loss and amplifier gain



Unwanted Emissions (Above 1GHz) for 11g



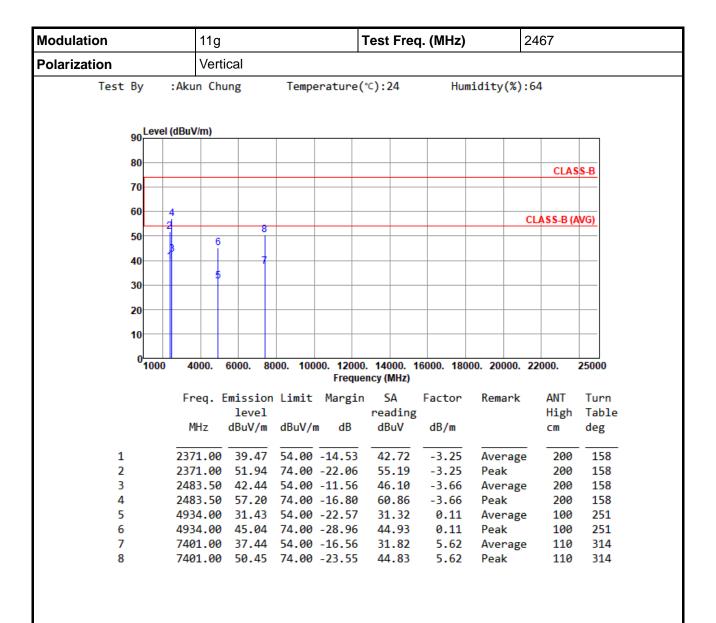
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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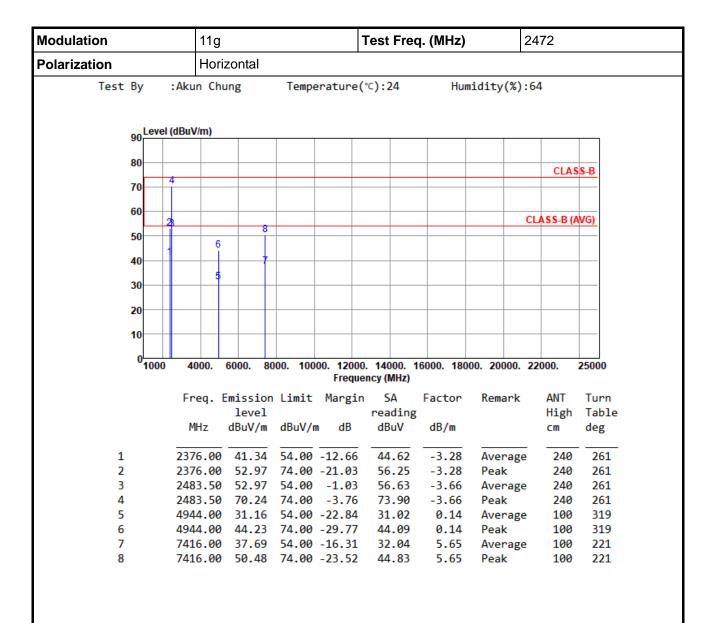
^{*}Factor includes antenna factor, cable loss and amplifier gain





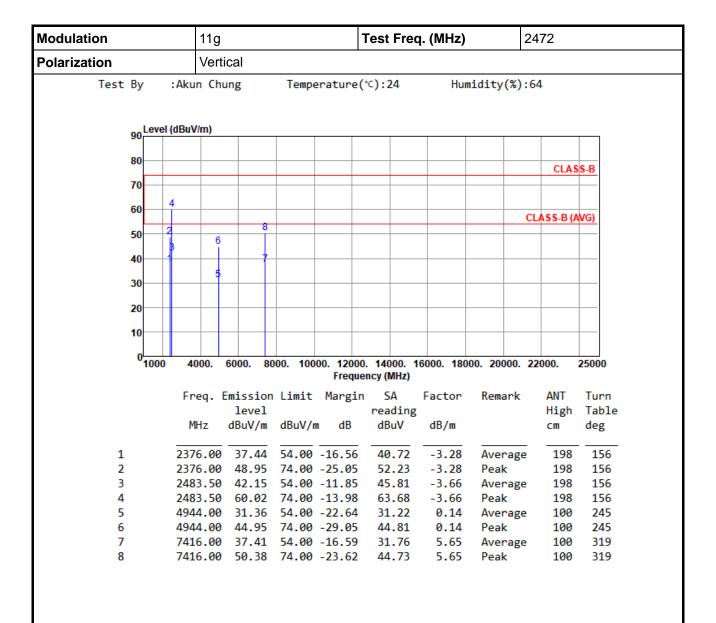
*Factor includes antenna factor, cable loss and amplifier gain





*Factor includes antenna factor, cable loss and amplifier gain

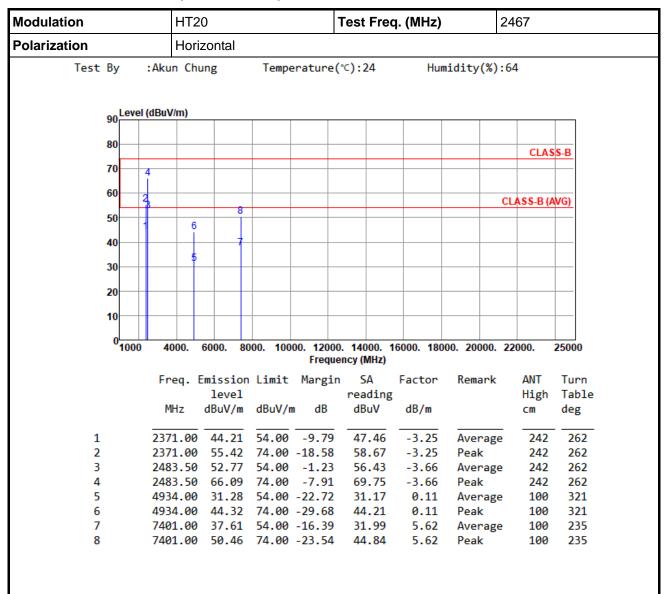




*Factor includes antenna factor, cable loss and amplifier gain



Unwanted Emissions (Above 1GHz) for HT20



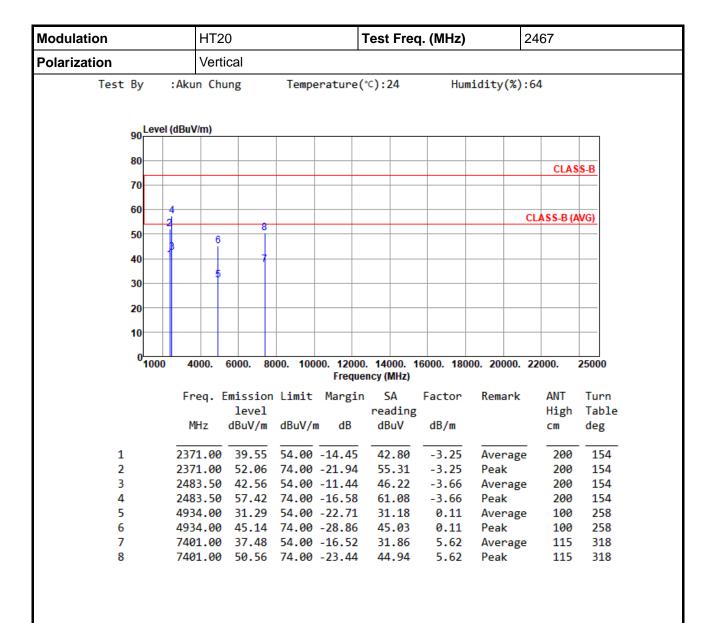
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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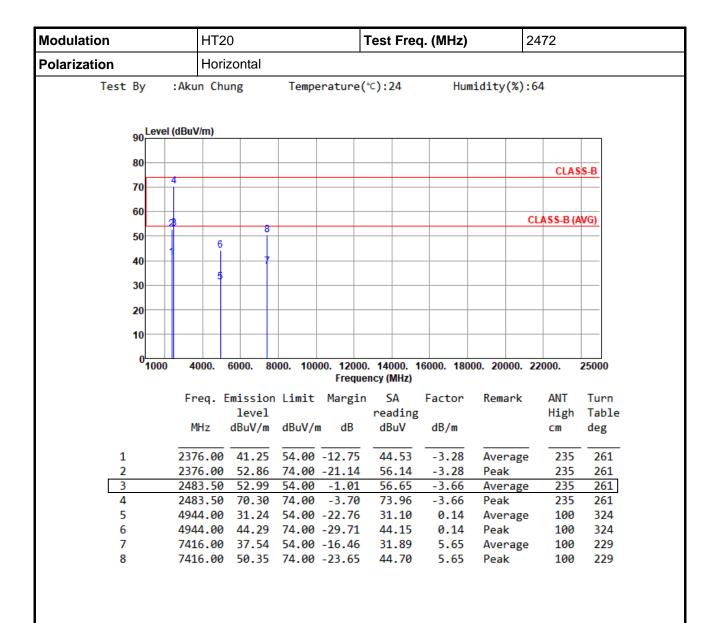
^{*}Factor includes antenna factor, cable loss and amplifier gain





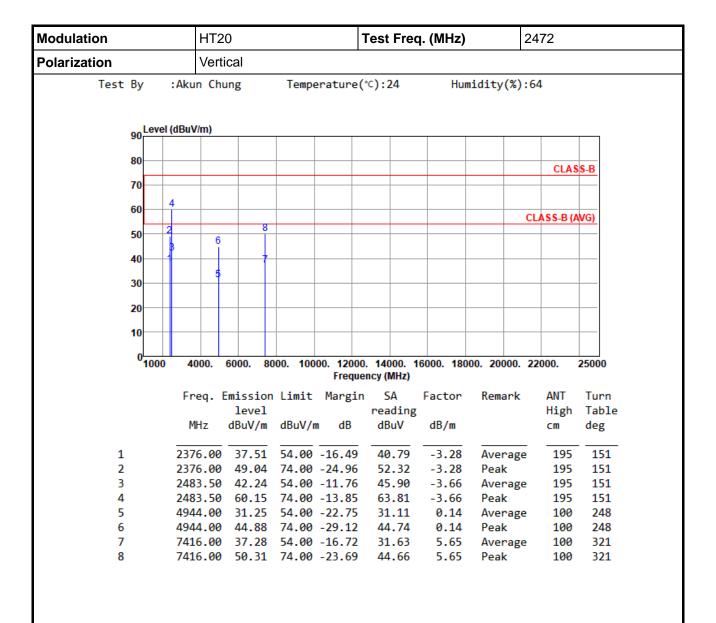
*Factor includes antenna factor, cable loss and amplifier gain





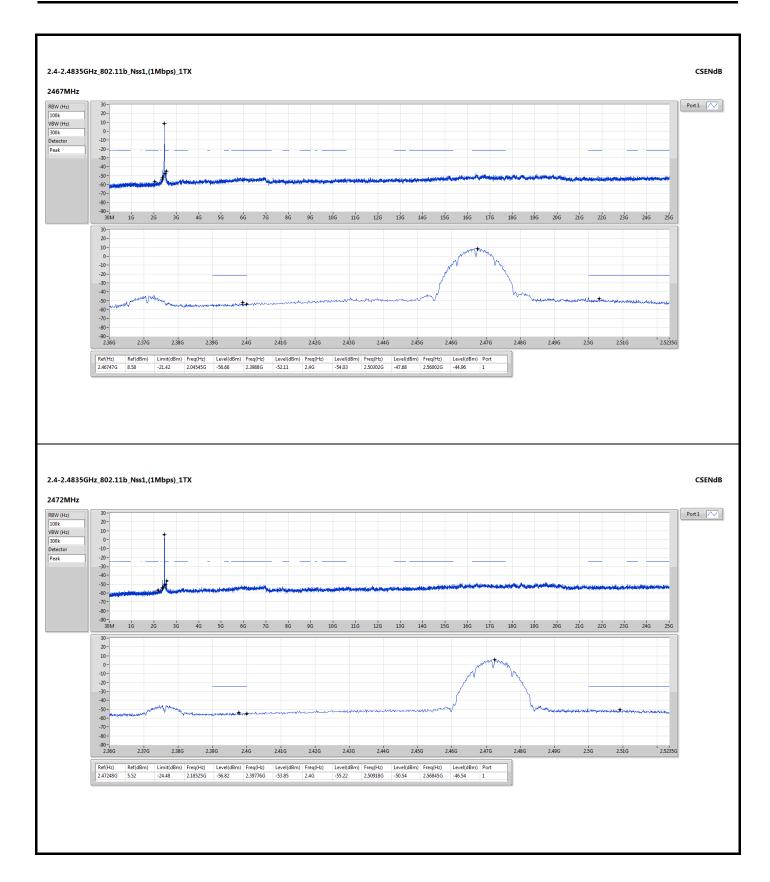
*Factor includes antenna factor, cable loss and amplifier gain



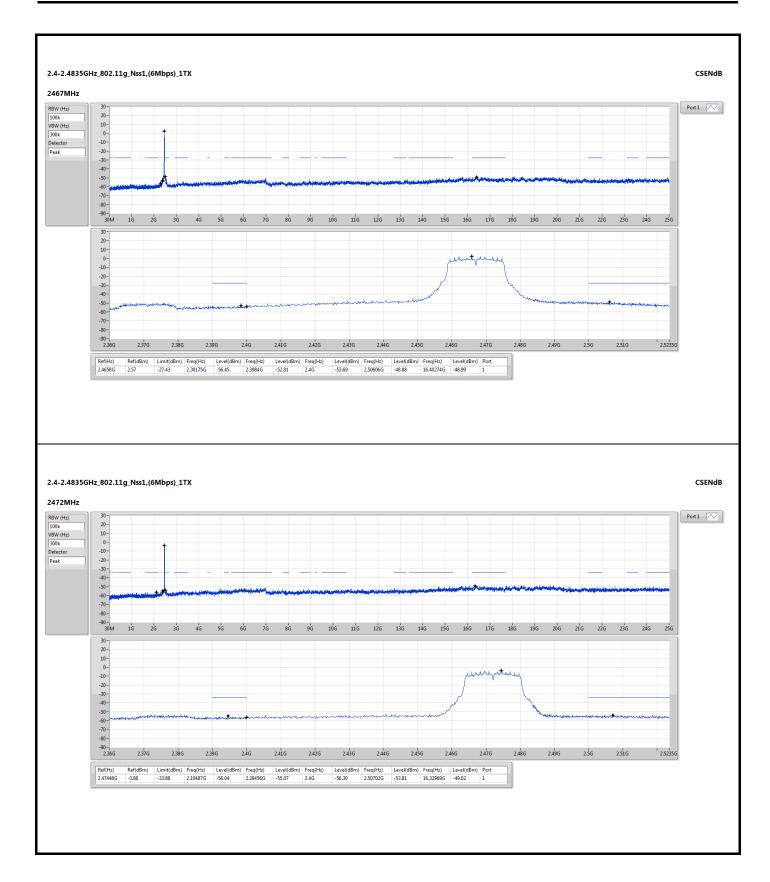


*Factor includes antenna factor, cable loss and amplifier gain

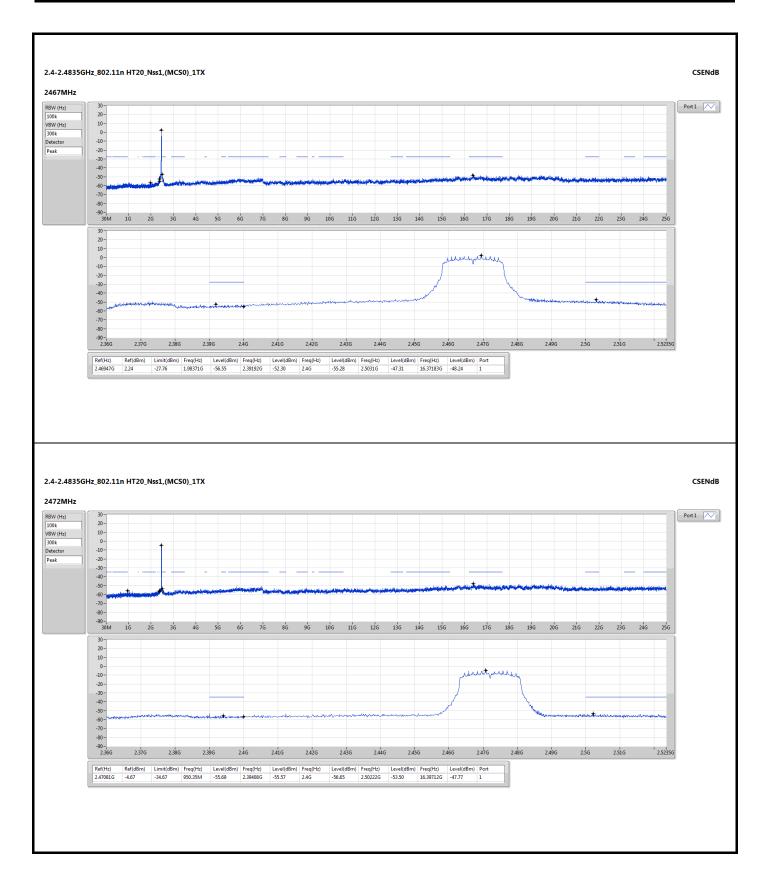




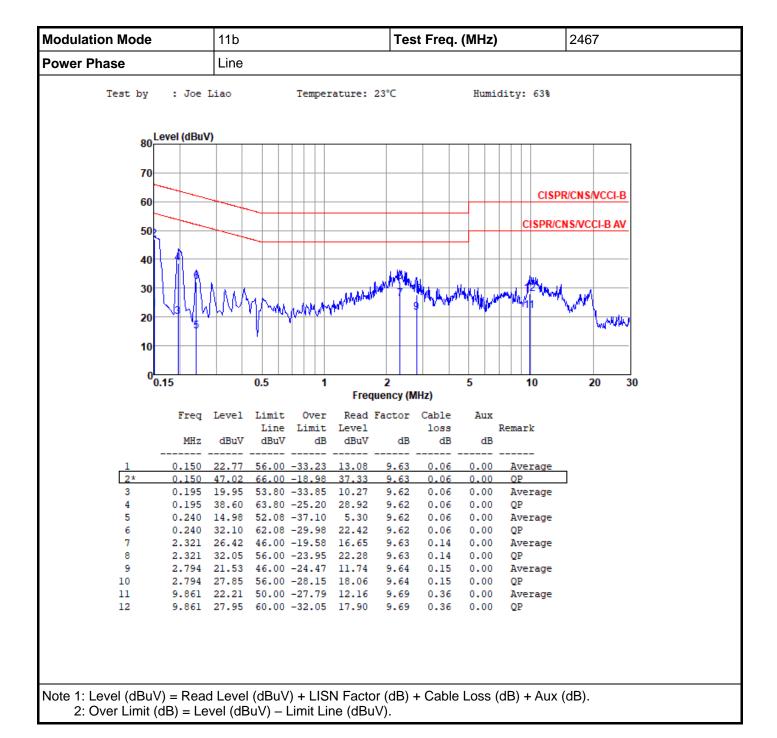






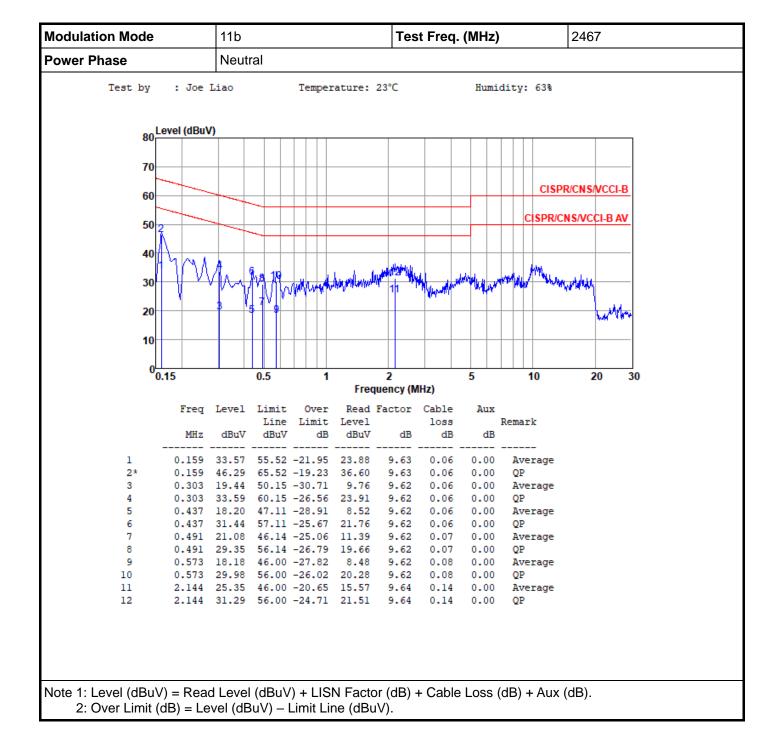






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