



TEST REPORT

FCC ID:2AXMF-CTR92

Product : Wireless Controller

Model Name : CTR92A, CTR92Q, CTR92P, CTR92E, CTR93A, CTR93Q, CTR93P, CTR93E, CTR94A, CTR94Q, CTR94P, CTR94E, CTR95A, CTR95Q, CTR95P, CTR95E, CTR96A, CTR96Q, CTR96P, CTR96E, CTR97A, CTR97Q, CTR97P, CTR97E, CTR98A, CTR98Q, CTR98P, CTR98E, CTR99A, CTR99Q, CTR99P, CTR99E

Brand : AC INFINITY

Report No. : SZNTT26033787E1-2

Prepared for

AC Infinity Inc.

21880 Baker Parkway, City of Industry, CA 91789 USA

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant : AC Infinity Inc.
Address : 21880 Baker Parkway, City of Industry, CA 91789 USA
Manufacturer : AC Infinity Inc.
Address : 21880 Baker Parkway, City of Industry, CA 91789 USA
Product name : Wireless Controller
Test Model name : CTR92Q
Model name : CTR92A, CTR92Q, CTR92P, CTR92E, CTR93A, CTR93Q, CTR93P, CTR93E,
CTR94A, CTR94Q, CTR94P, CTR94E, CTR95A, CTR95Q, CTR95P, CTR95E,
CTR96A, CTR96Q, CTR96P, CTR96E, CTR97A, CTR97Q, CTR97P, CTR97E,
CTR98A, CTR98Q, CTR98P, CTR98E, CTR99A, CTR99Q, CTR99P, CTR99E
Standards : FCC CFR47 Part 15 Section 15.247
Test procedure : ANSI C63.10-2020+Cor 1+2023
KDB 558074 D01 15.247 Meas Guidance v05r02
Date of test : Jul. 22, 2026 to Aug. 19, 2026
Date of Issue : Aug. 19, 2026

This device described above has been tested by NTT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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2 Test Summary

Test Items	Test Requirement	Result
AC Power Line conducted emission	FCC part 15.207	PASS
Radiated Spurious Emissions	FCC part 15.205/15.209	PASS
Duty cycle	ANSI C63.10-2020+Cor 1+2023	PASS
Conducted Spurious Emission	FCC part 15.205/15.209	PASS
Band edge	FCC part 15.247(d)	PASS
6dB&99% Bandwidth	FCC part 15.247 (a)(2)	PASS
Maximum Conducted Output Power	FCC part 15.247 (b)(3)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Antenna Requirement	FCC part 15.203/15.247 (b)	PASS

Remark:

"N/A" denotes test is not applicable in this Test Report.

3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wireless Controller
Model Name	:	CTR92Q
Sample ID	:	SZNTT26033787E1-001#
Sample(s) Status:	:	Engineer sample
Model name	:	CTR92A, CTR92Q, CTR92P, CTR92E, CTR93A, CTR93Q, CTR93P, CTR93E, CTR94A, CTR94Q, CTR94P, CTR94E, CTR95A, CTR95Q, CTR95P, CTR95E, CTR96A, CTR96Q, CTR96P, CTR96E, CTR97A, CTR97Q, CTR97P, CTR97E, CTR98A, CTR98Q, CTR98P, CTR98E, CTR99A, CTR99Q, CTR99P, CTR99E
Model Different.:	:	All models are the same expect for the model name.
Specification	:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40) 802.11ax (HE20)/802.11ax (HE40)
Operation Frequency	:	2412-2462MHz for 802.11b/g/n20/ax20; 2422-2452MHz for 802.11n40/ax40;
Number of Channel	:	11 channels for 802.11b/g/n20/ax20; 7 channels for 802.11n40/ax40;
Type of Modulation	:	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM 802.11ax:(1024-QAM,256-QAM,64-QAM,16-QAM, QPSK, BPSK) OFDMA
Antenna installation	:	Internal Antenna
Antenna Gain	:	2.35dBi
Power supply	:	DC 12V from adapter
Adapter information	:	Manufacturer:Shenzhen Keyu Power Supply Technology Co., Ltd. Model:KA24D-1202000USH Input:100-240V~ 50/60Hz, 0.65A Output:12V/2.0A
Hardware Version	:	V1.0
Software Version	:	V1.0
Note	:	During 802.11ax mode testing, the device was configured to operate with full channel bandwidth Resource Unit (RU) allocation
Remark: the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.		

3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20); 802.11ax (HE20): MCS0; 802.11n (HT40); 802.11ax (HE40): MCS0; were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 b/g/n/ax (HT20/HT40/HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Test Frequency and Channel for 802.11 b/g/n/ax (HT20/HT40/HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452



3.3 Test Site

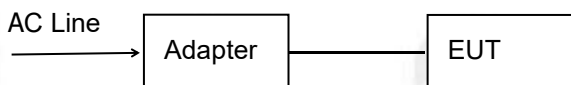
Site Description

EMC Lab.	:	Accredited by ANAB, Dec. 19, 2025
		The Certificate Registration Number is AT-3446
		FCC Designation Number: CN3446
		FCC Test Firm Registration Number: 129414
		ISED CAB identifier: CN0199
Name of Firm	:	ISED Company Number: 35943
		Shenzhen NTT Testing Technology Co., Ltd.
Site Location	:	1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang
		Industrial Park No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao'an District, Shenzhen City, China

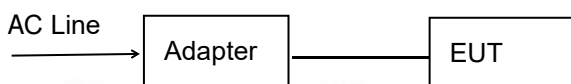


3.4 Test Setup Configuration

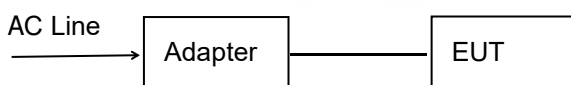
Conducted Emission



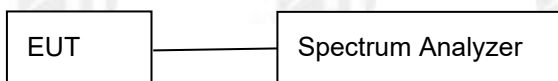
Radiated Emission (30MHz-1GHz)



Radiated Emission(above 1GHz)



RF Conducted Test



3.5 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	SecureCRTPortable
Power level setup	14

4 Equipment During Test

4.1 Equipments List

Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESPI	/	RS	2025/9/8	2026/9/7
LISN	NNLK 8129	00603	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00694	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00680	Schwarzbeck	2025/9/8	2026/9/7
Cable	RG223-1500MM	NA	RG	2025/9/8	2026/9/7

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifier (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Preamplifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7



MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/9/8	2026/9/7
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/9/8	2026/9/7
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
RF Swith	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800-4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800-11000MM	NA	DA	2025/9/8	2026/9/7

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTesT	V1.0.0
4	RF communication test system	TACHOY	RFTesT	V1.0.0



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9KHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark:When making a conformity declaration based on test results for regulations/standards or specifications,the default is to use Clause 4.2.1of ILAC-G8:09/2019 and the guidelines on decision rules and conformity declaration in IEC Guide 115:2023.	

4.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Controller	AC INFINITY	CTR92Q	N/A	EUT
E-2	Adapter	N/A	KA24D-1202000USH	N/A	EUT

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

5 Conducted Emission

Test Requirement:	: FCC CFR 47 Part 15 Section 15.207
Test Method	: ANSI C63.10-2020+Cor 1+2023
Test Result	: PASS
Frequency Range	: 150kHz to 30MHz
Class/Severity	: Class B

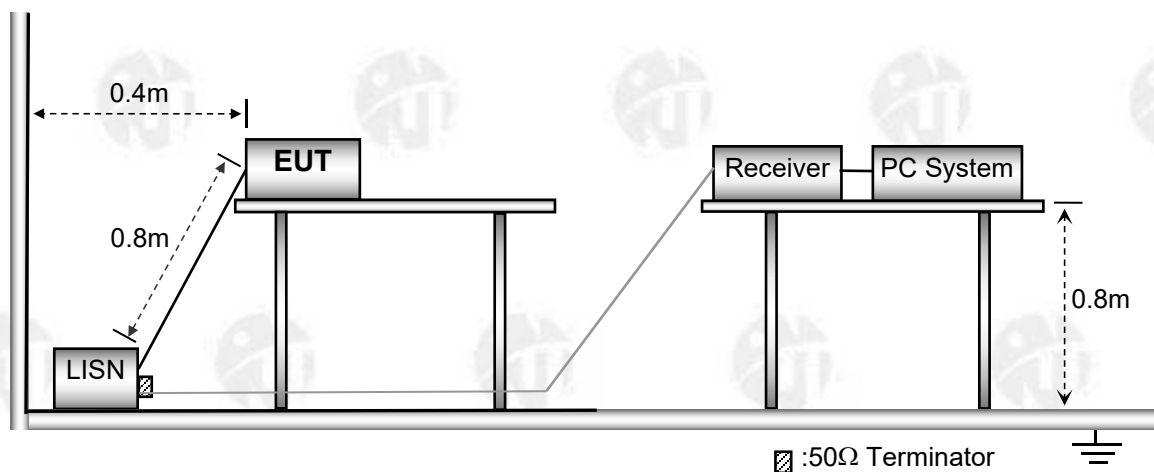
5.1 E.U.T. Operation

Operating Environment :

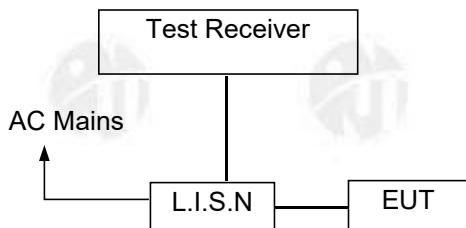
Temperature	: 26 °C
Humidity	: 54 % RH
Atmospheric Pressure	: 101.11kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020+Cor 1+2023.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

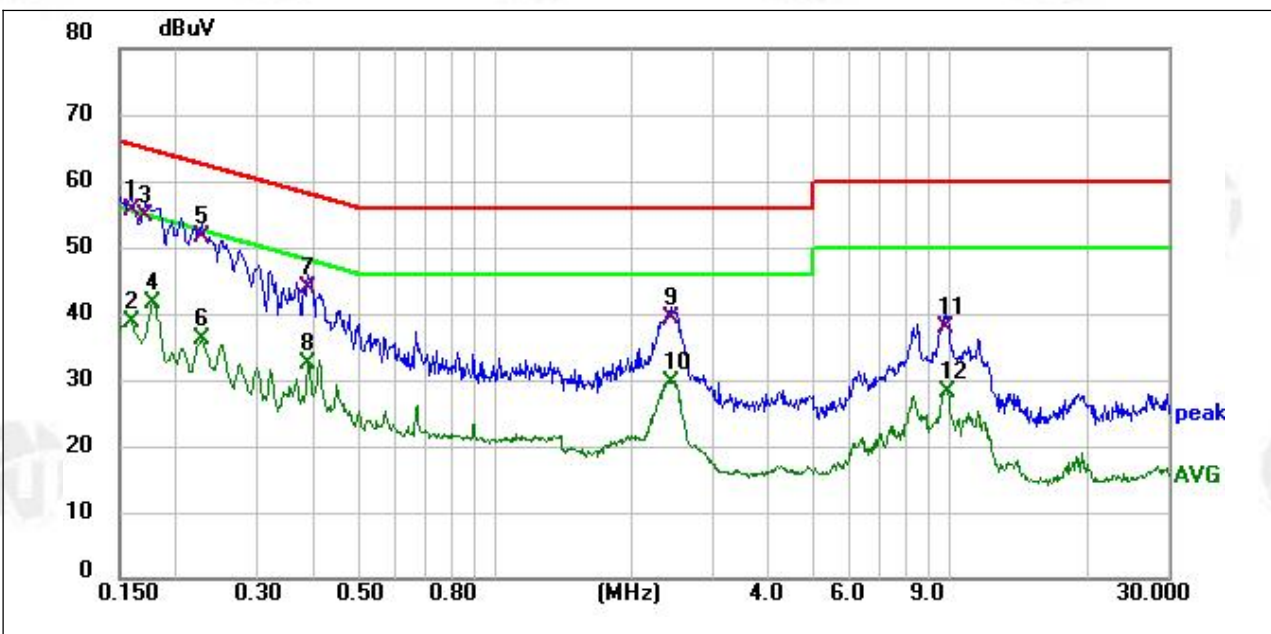
5.7 Conducted Emission Test Result

Pass.

Conducted emission at both 120V & 240V is assessed, and emission at 120V represents the worst case. All the modulation modes were tested the data of the worst mode (802.11b, Mid channel) are recorded in the following pages and the others modulation methods do not exceed the limits.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 12V from adapter input AC 120V/60Hz		

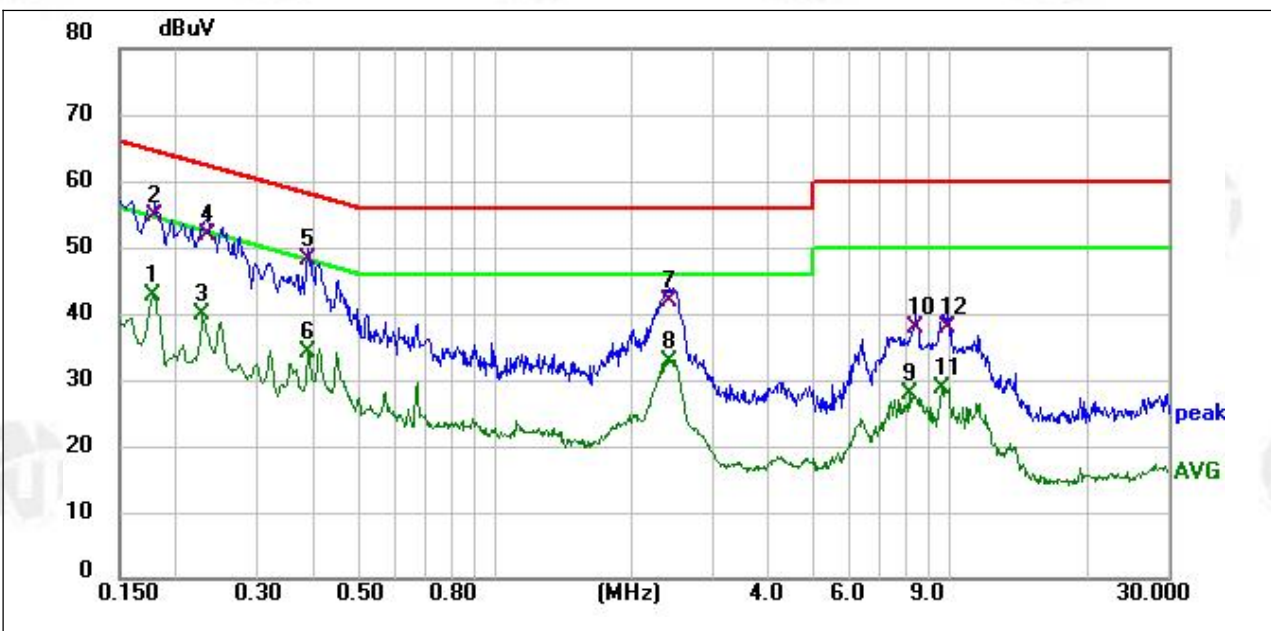


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1590	36.13	19.47	55.60	65.52	-9.92	QP	P
2	0.1590	19.21	19.47	38.68	55.52	-16.84	AVG	P
3	0.1710	35.18	19.48	54.66	64.91	-10.25	QP	P
4	0.1770	22.16	19.48	41.64	54.63	-12.99	AVG	P
5	0.2280	32.03	19.49	51.52	62.52	-11.00	QP	P
6	0.2280	16.65	19.49	36.14	52.52	-16.38	AVG	P
7	0.3870	24.27	19.46	43.73	58.13	-14.40	QP	P
8	0.3899	13.01	19.46	32.47	48.07	-15.60	AVG	P
9	2.4550	19.76	19.51	39.27	56.00	-16.73	QP	P
10	2.4550	10.11	19.51	29.62	46.00	-16.38	AVG	P
11	9.7880	18.07	19.74	37.81	60.00	-22.19	QP	P
12	9.8600	8.42	19.74	28.16	50.00	-21.84	AVG	P

Notes: 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Correct Factor = Insertion loss of LISN + Cable loss.
4. Measurement Level = Reading level + Correct Factor. Margin= Measurement Level - Limit



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 12V from adapter input AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1770	23.14	19.46	42.60	54.63	-12.03	AVG	P
2 *	0.1800	35.22	19.46	54.68	64.49	-9.81	QP	P
3	0.2280	20.37	19.45	39.82	52.52	-12.70	AVG	P
4	0.2340	32.28	19.45	51.73	62.31	-10.58	QP	P
5	0.3899	28.75	19.44	48.19	58.07	-9.88	QP	P
6	0.3899	14.58	19.44	34.02	48.07	-14.05	AVG	P
7	2.4300	22.31	19.54	41.85	56.00	-14.15	QP	P
8	2.4300	13.16	19.54	32.70	46.00	-13.30	AVG	P
9	8.1320	8.03	19.74	27.77	50.00	-22.23	AVG	P
10	8.4110	18.02	19.74	37.76	60.00	-22.24	QP	P
11	9.6440	9.01	19.76	28.77	50.00	-21.23	AVG	P
12	9.8240	17.95	19.77	37.72	60.00	-22.28	QP	P

Notes: 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
 3. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
 3. Correct Factor = Insertion loss of LISN + Cable loss.
 4. Measurement Level = Reading level + Correct Factor. Margin= Measurement Level - Limit



6 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method : ANSI C63.10-2020+Cor 1+2023
 Test Result : PASS
 Measurement Distance : 3m
 Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

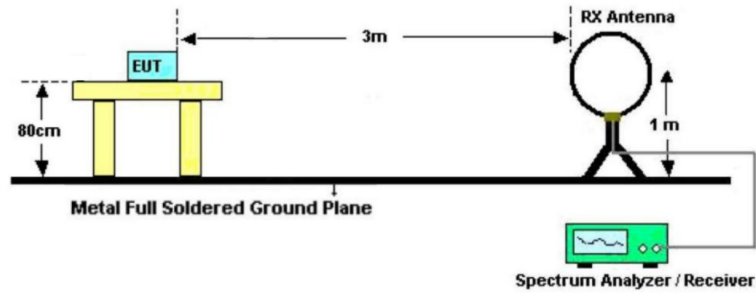
6.1 EUT Operation

Operating Environment :
 Temperature: : 26°C
 Humidity: : 54 % RH
 Atmospheric Pressure: : 101.11kPa
 Test Voltage : AC 120V/60Hz

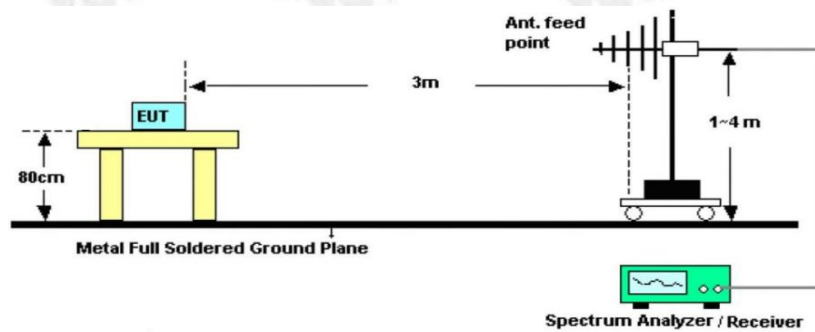
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

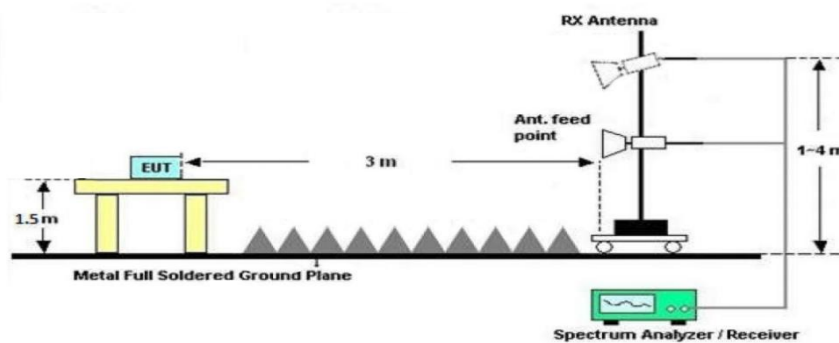
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz





6.3 Spectrum Analyzer Setup

Below 30MHz			
IF Bandwidth	:	10kHz	
Resolution Bandwidth	:	10kHz	
Video Bandwidth	:	10kHz	
30MHz ~ 1GHz			
Detector	:	PK	QP
Resolution Bandwidth	:	100kHz	120kHz
Video Bandwidth	:	300kHz	300kHz
Above 1GHz			
Detector	:	PK	AV
Resolution Bandwidth	:	1MHz	1MHz
Video Bandwidth	:	3MHz	10Hz



6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	>20

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);
Limit line = Specific limits (dBuV) + distance extrapolation factor.

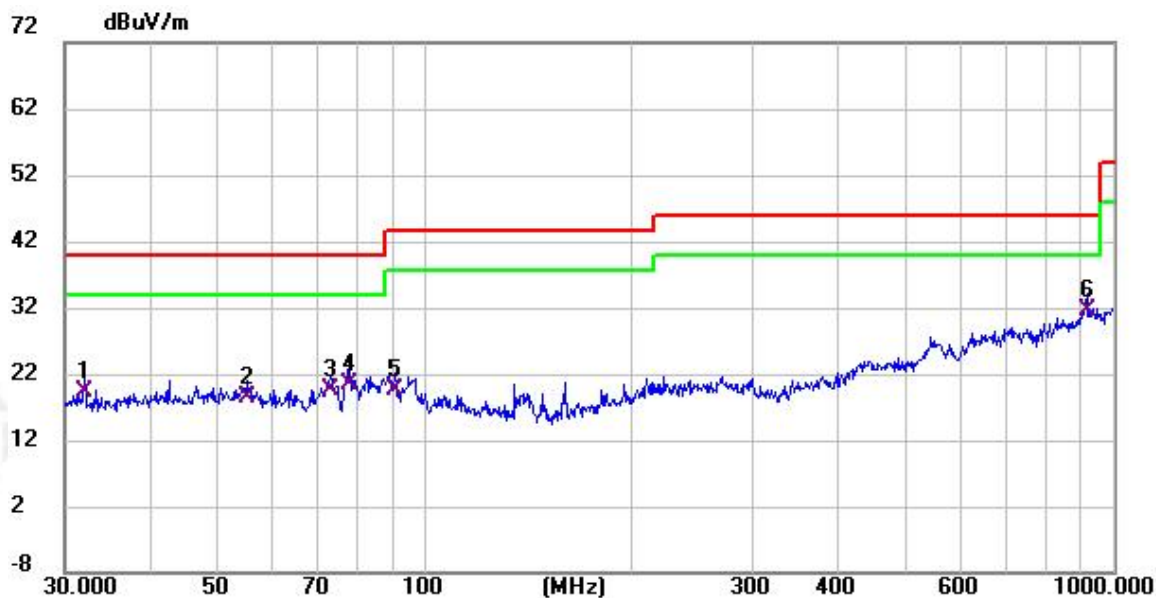
Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (TX 802.11b Mid Channel) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.0667	6.15	13.21	19.36	40.00	-20.64	QP
2	55.2207	4.62	13.94	18.56	40.00	-21.44	QP
3	73.1025	8.44	11.19	19.63	40.00	-20.37	QP
4	77.5928	9.16	11.25	20.41	40.00	-19.59	QP
5	90.5374	8.14	11.51	19.65	43.50	-23.85	QP
6 *	916.0686	6.31	25.14	31.45	46.00	-14.55	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.1794	9.45	13.18	22.63	40.00	-17.37	QP
2 *	54.2610	15.43	14.13	29.56	40.00	-10.44	QP
3	63.0916	13.33	12.51	25.84	40.00	-14.16	QP
4	70.0903	16.46	11.17	27.63	40.00	-12.37	QP
5	74.9191	14.16	11.48	25.64	40.00	-14.36	QP
6	564.6388	7.86	19.55	27.41	46.00	-18.59	QP

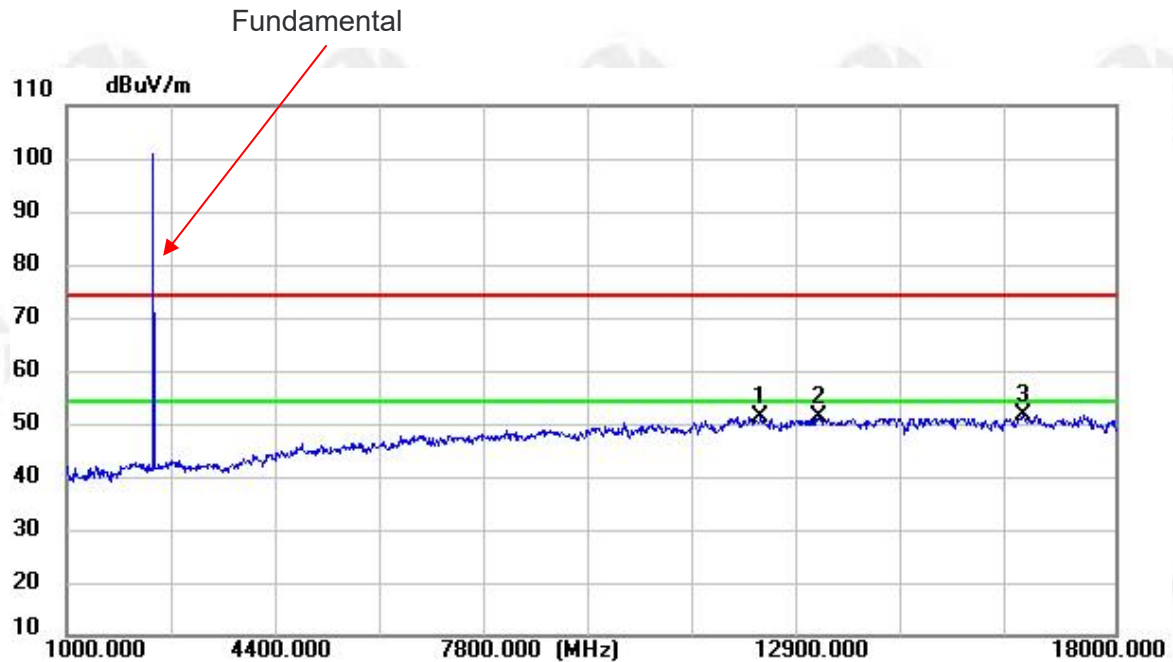
Remark: Level=Reading+Factor
Factor=Cable Loss+ANT Factor-AMP Factor
Margin=Level - Limit



Test Frequency: From 1GHz to 18GHz

Since the PK test value is below the AV limit, no AV tests were conducted.

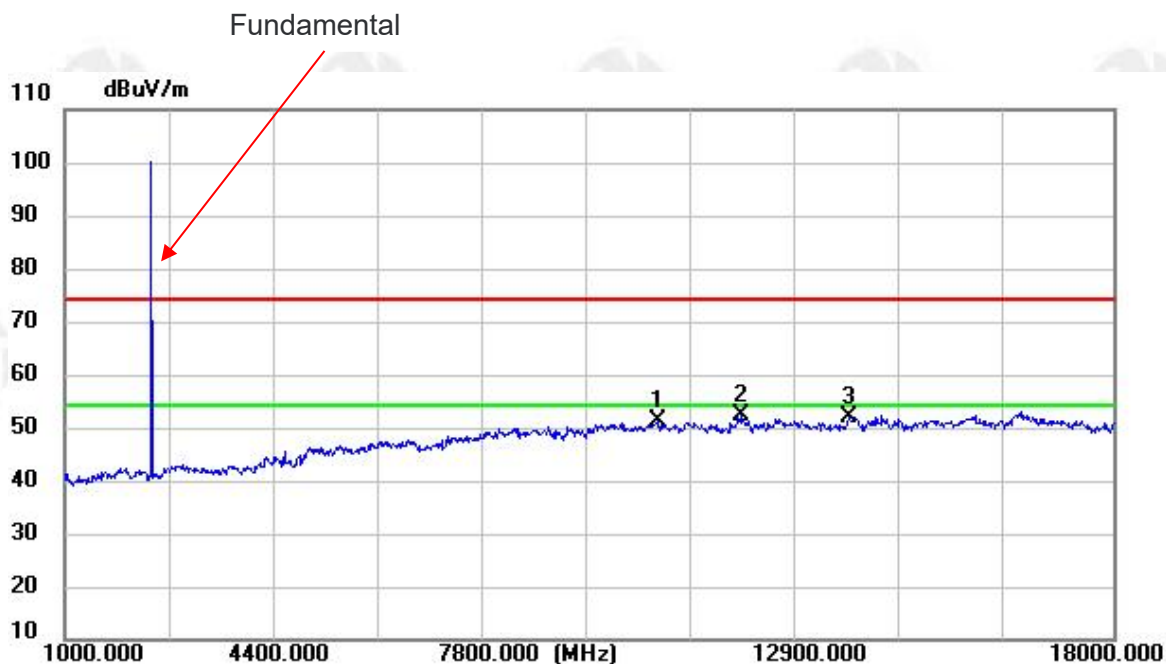
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12254.0000	37.58	13.55	51.13	74.00	-22.87	peak
2	13189.0000	36.02	15.24	51.26	74.00	-22.74	peak
3 *	16521.0000	34.88	16.60	51.48	74.00	-22.52	peak



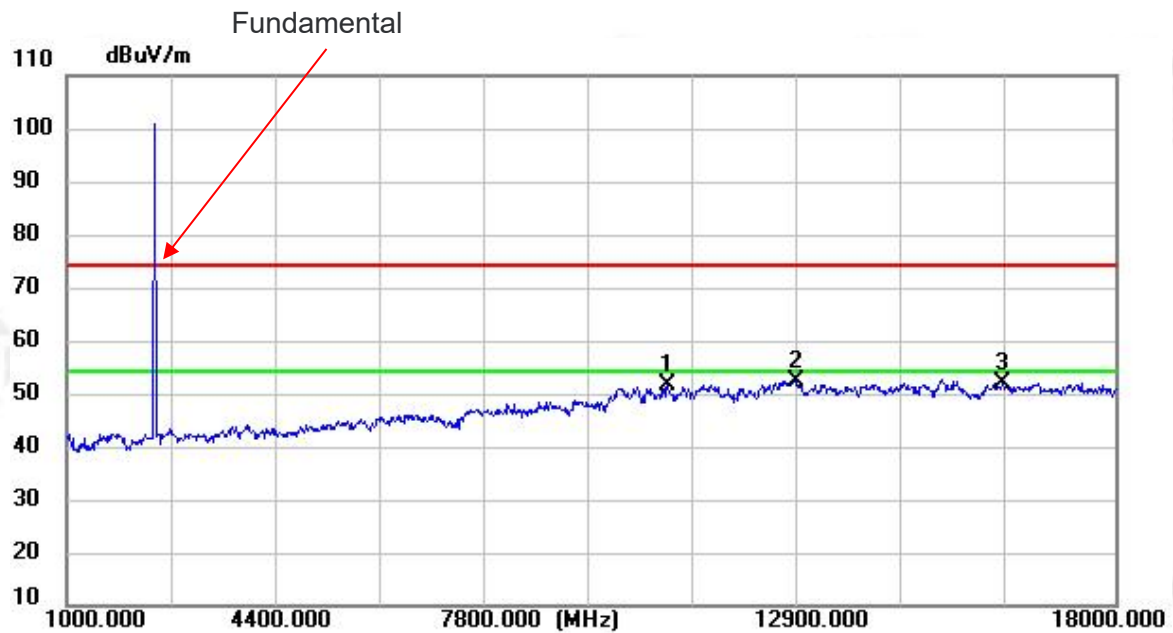
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10605.0000	36.99	14.40	51.39	74.00	-22.61	peak
2 *	11965.0000	39.10	13.25	52.35	74.00	-21.65	peak
3	13716.0000	35.02	16.98	52.00	74.00	-22.00	peak



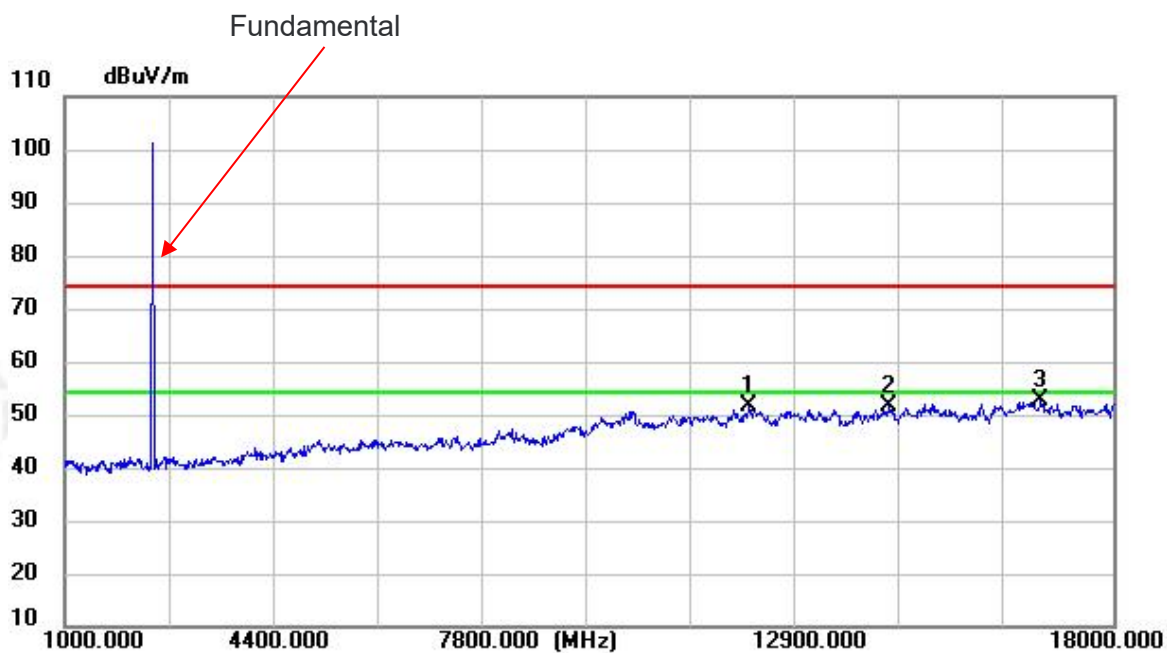
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Mid Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10741.0000	36.86	14.61	51.47	74.00	-22.53	peak
2 *	12815.0000	38.05	14.35	52.40	74.00	-21.60	peak
3	16181.0000	36.32	15.77	52.09	74.00	-21.91	peak



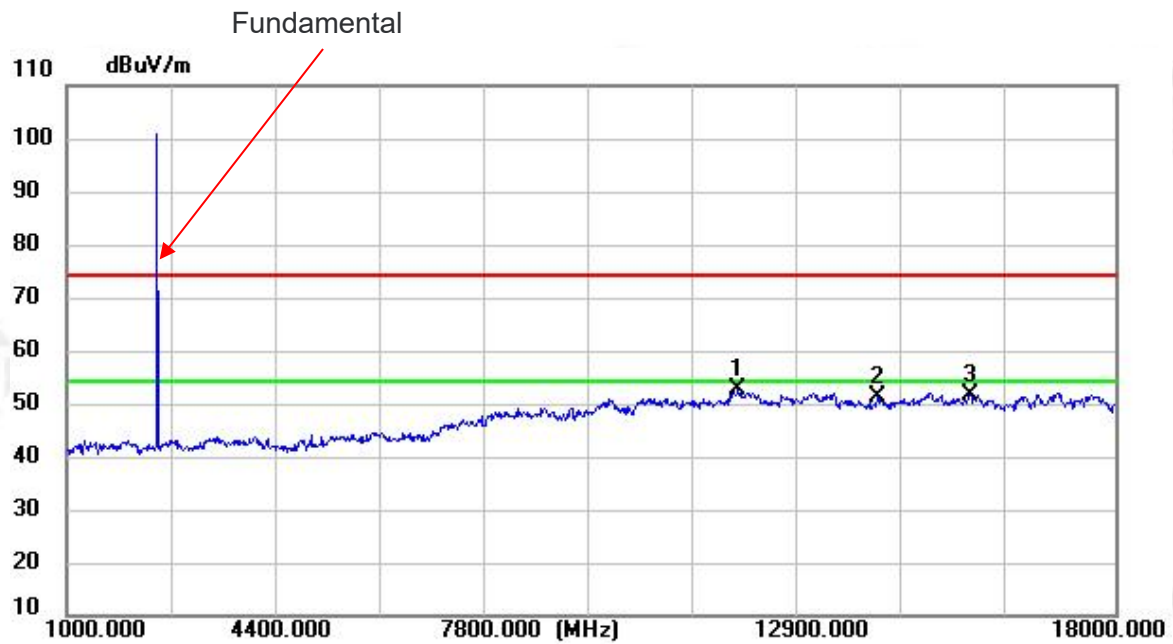
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Mid Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12101.0000	38.26	13.32	51.58	74.00	-22.42	peak
2	14362.0000	33.78	17.91	51.69	74.00	-22.31	peak
3 *	16827.0000	35.35	17.35	52.70	74.00	-21.30	peak



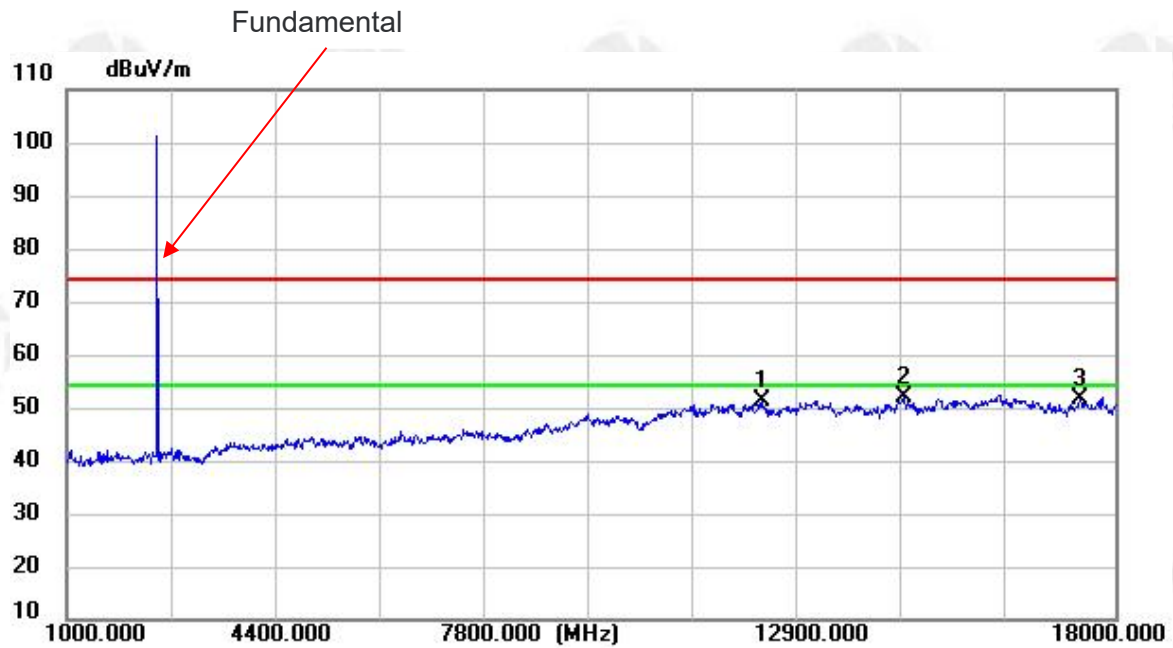
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11880.0000	39.10	13.41	52.51	74.00	-21.49	peak
2	14158.0000	33.47	17.92	51.39	74.00	-22.61	peak
3	15654.0000	35.52	16.20	51.72	74.00	-22.28	peak



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



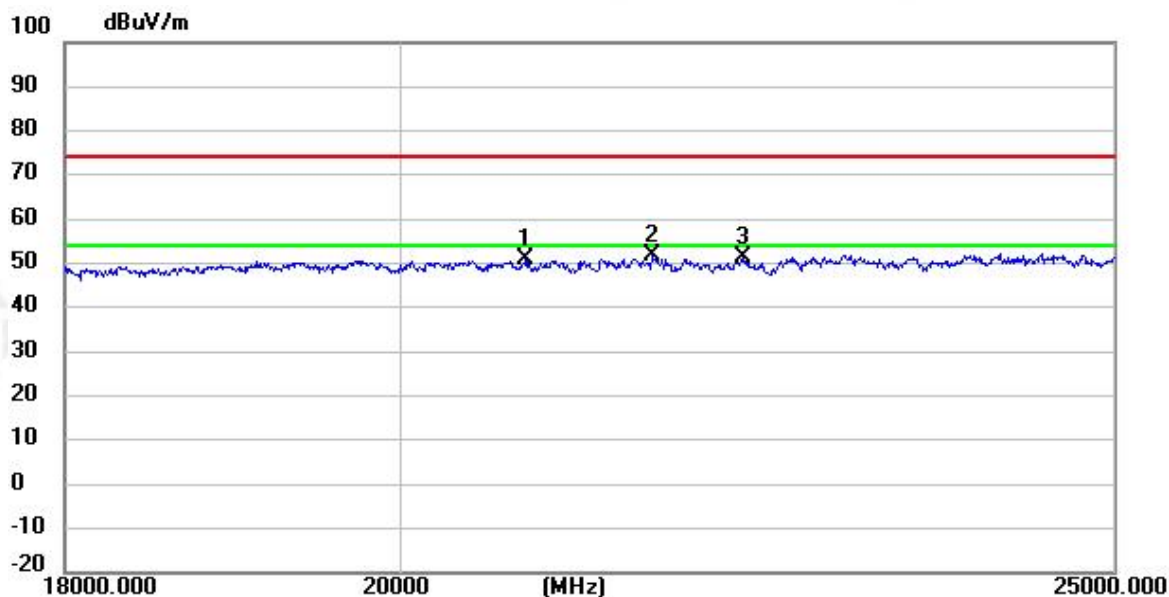
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12271.0000	37.59	13.57	51.16	74.00	-22.84	peak
2 *	14566.0000	33.88	17.91	51.79	74.00	-22.21	peak
3	17439.0000	32.27	19.44	51.71	74.00	-22.29	peak



Test Frequency: From 18GHz to 26.5GHz

Since the PK test value is below the AV limit, no AV tests were conducted.

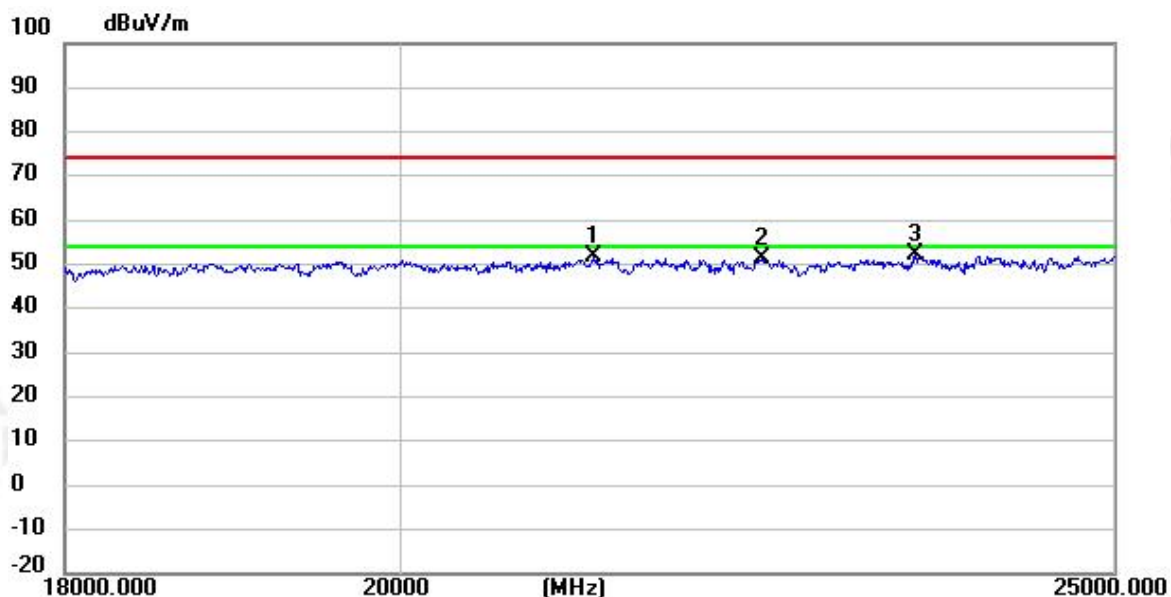
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	20798.8730	4.81	45.97	50.78	74.00	-23.22	peak
2 *	21643.7661	6.03	45.75	51.78	74.00	-22.22	peak
3	22267.0211	6.43	45.07	51.50	74.00	-22.50	peak



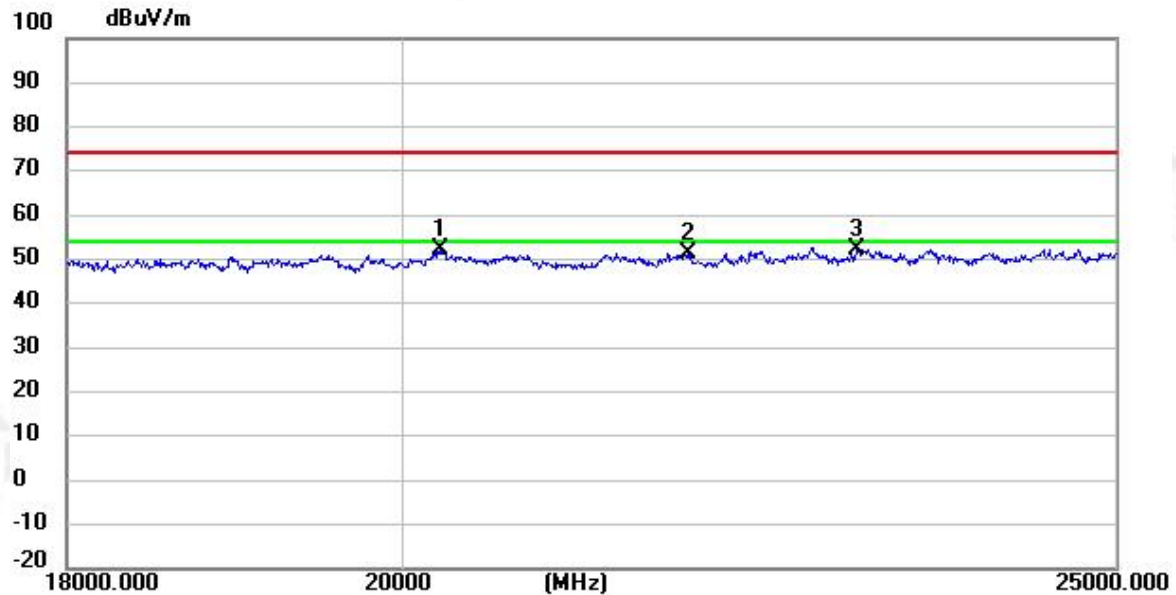
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21248.4277	5.37	46.25	51.62	74.00	-22.38	peak
2	22398.7640	6.45	44.94	51.39	74.00	-22.61	peak
3 *	23498.4782	6.92	45.10	52.02	74.00	-21.98	peak



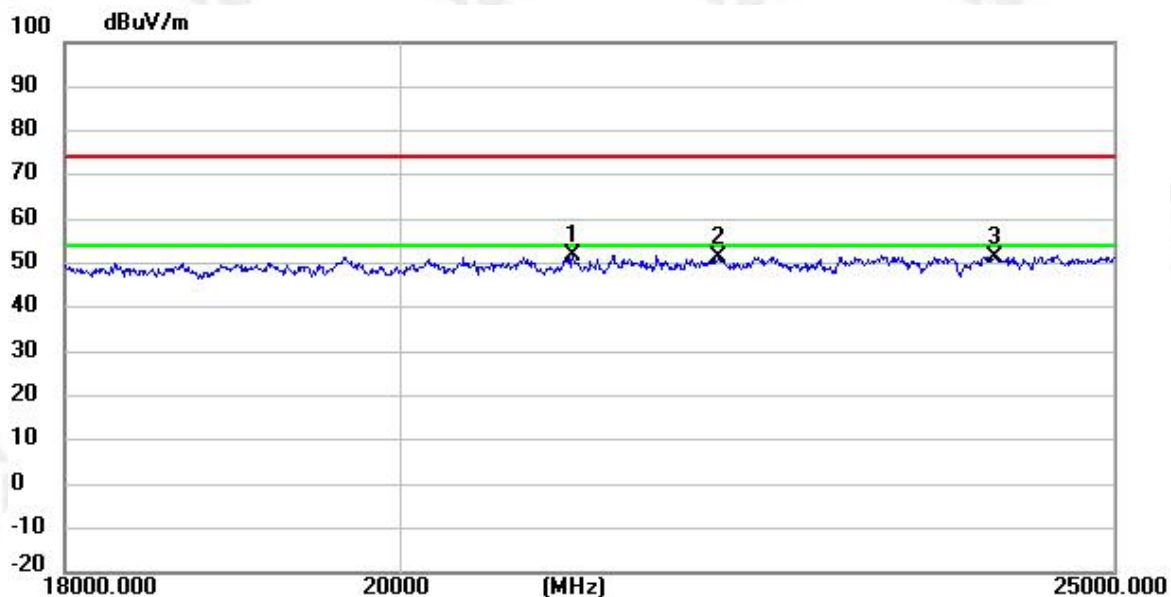
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Mid Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	20231.6241	7.91	44.12	52.03	74.00	-21.97	peak
2	21876.4240	6.00	45.48	51.48	74.00	-22.52	peak
3 *	23052.2576	7.91	44.44	52.35	74.00	-21.65	peak



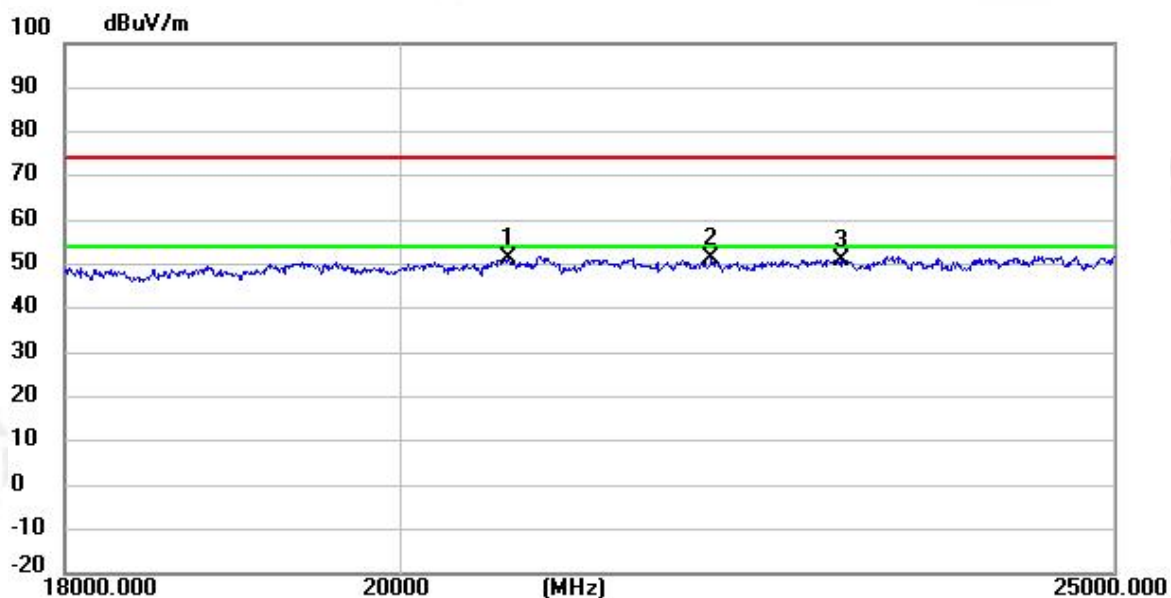
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Mid Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	21107.8803	5.39	46.44	51.83	74.00	-22.17	peak
2	22095.2840	6.32	45.25	51.57	74.00	-22.43	peak
3	24095.0561	5.50	46.07	51.57	74.00	-22.43	peak



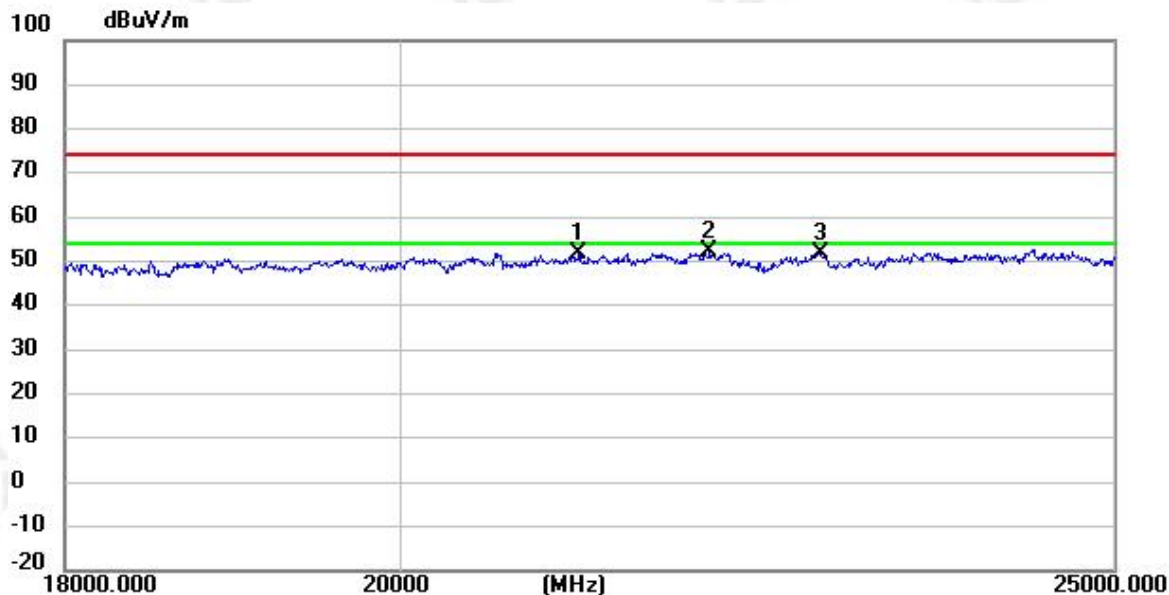
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	20684.1649	5.57	45.62	51.19	74.00	-22.81	peak
2 *	22046.4600	6.26	45.29	51.55	74.00	-22.45	peak
3	22967.4222	6.68	44.40	51.08	74.00	-22.92	peak



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21146.8280	5.21	46.39	51.60	74.00	-22.40	peak
2 *	22030.2091	6.72	45.31	52.03	74.00	-21.97	peak
3	22815.5050	7.37	44.54	51.91	74.00	-22.09	peak

Note:

1. Remark: Level=Reading+Factor

Factor=Cable Loss+ANT Factor-AMP Factor

Margin=Level - Limit

2. If peak below the average limit, the average emission was no test.

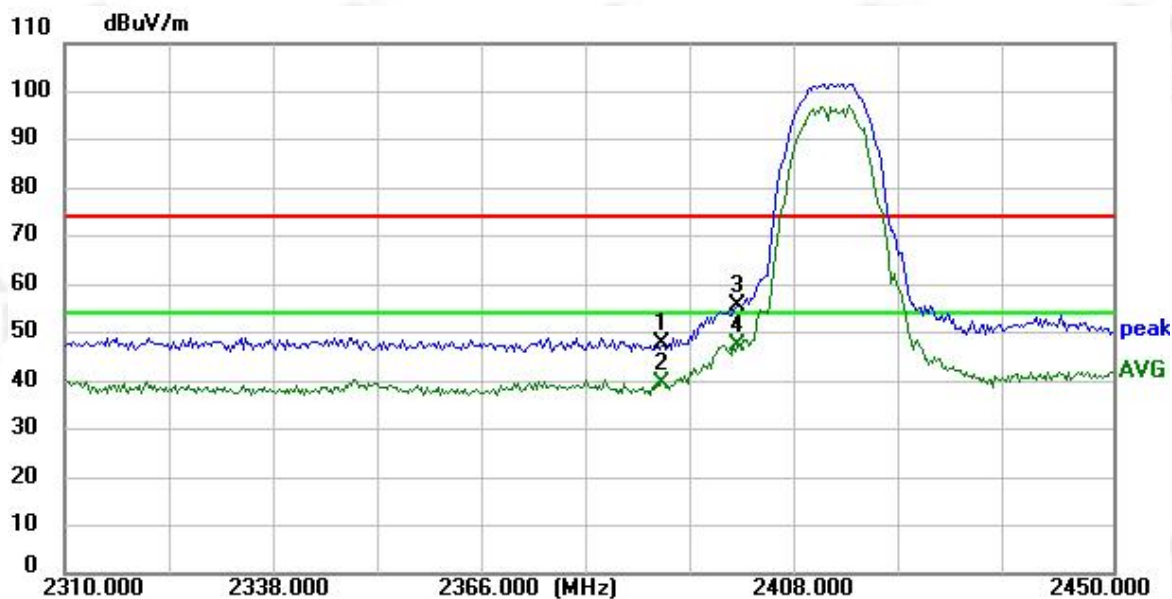
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4. We test all the mode and recorded the worst mode (802.11b) in the report.



Radiated Band Emission Measurement:

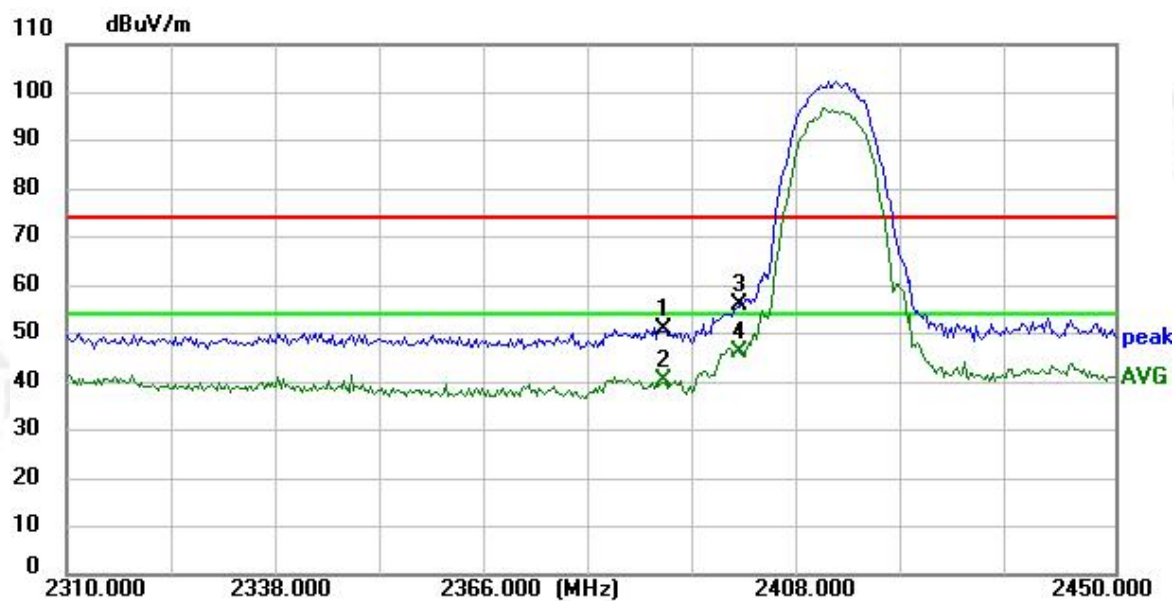
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	46.28	1.49	47.77	74.00	-26.23	peak
2	2390.0000	38.00	1.49	39.49	54.00	-14.51	AVG
3	2400.0000	54.25	1.40	55.65	74.00	-18.35	peak
4 *	2400.0000	45.77	1.40	47.17	54.00	-6.83	AVG



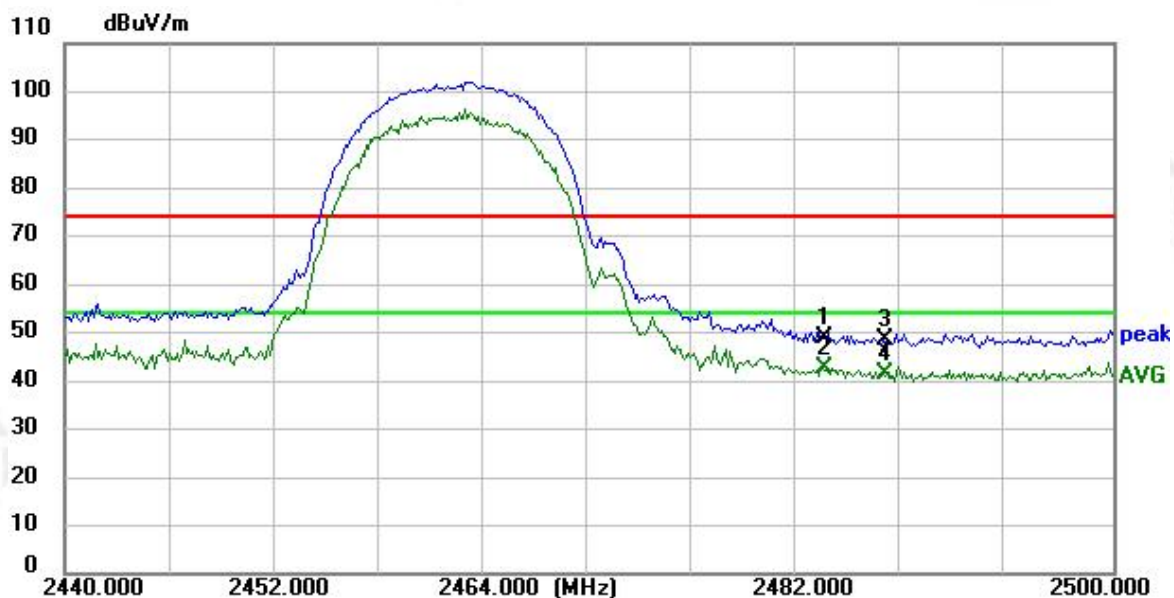
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	49.36	1.49	50.85	74.00	-23.15	peak
2	2390.0000	38.65	1.49	40.14	54.00	-13.86	AVG
3	2400.0000	54.71	1.40	56.11	74.00	-17.89	peak
4 *	2400.0000	44.75	1.40	46.15	54.00	-7.85	AVG



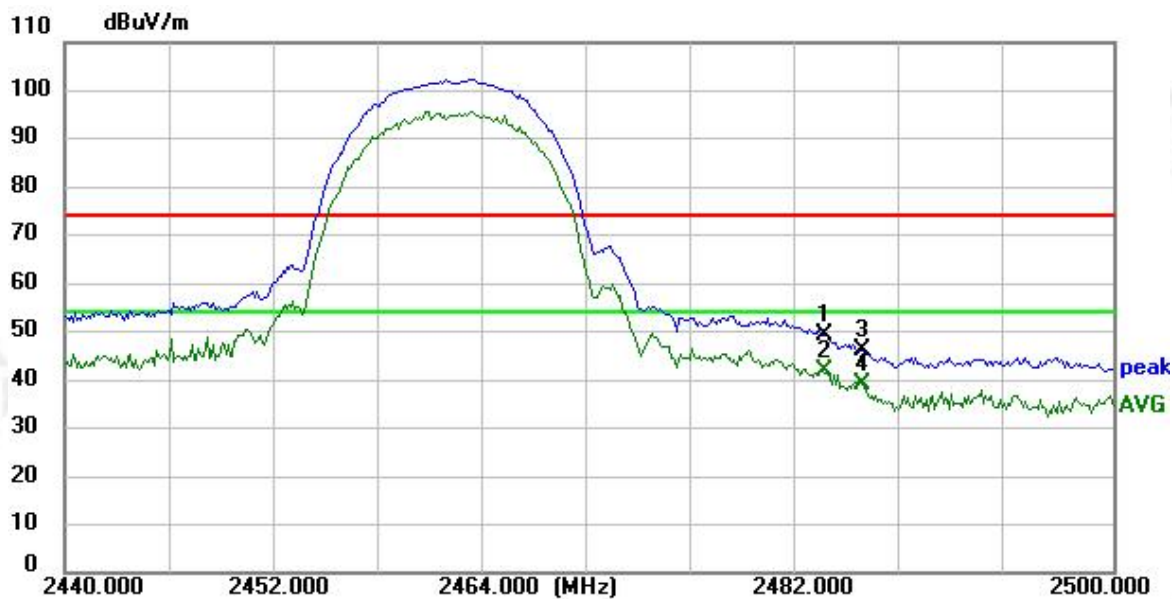
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	47.23	1.71	48.94	74.00	-25.06	peak
2 *	2483.5000	40.80	1.71	42.51	54.00	-11.49	AVG
3	2487.0000	46.77	1.75	48.52	74.00	-25.48	peak
4	2487.0000	39.63	1.75	41.38	54.00	-12.62	AVG



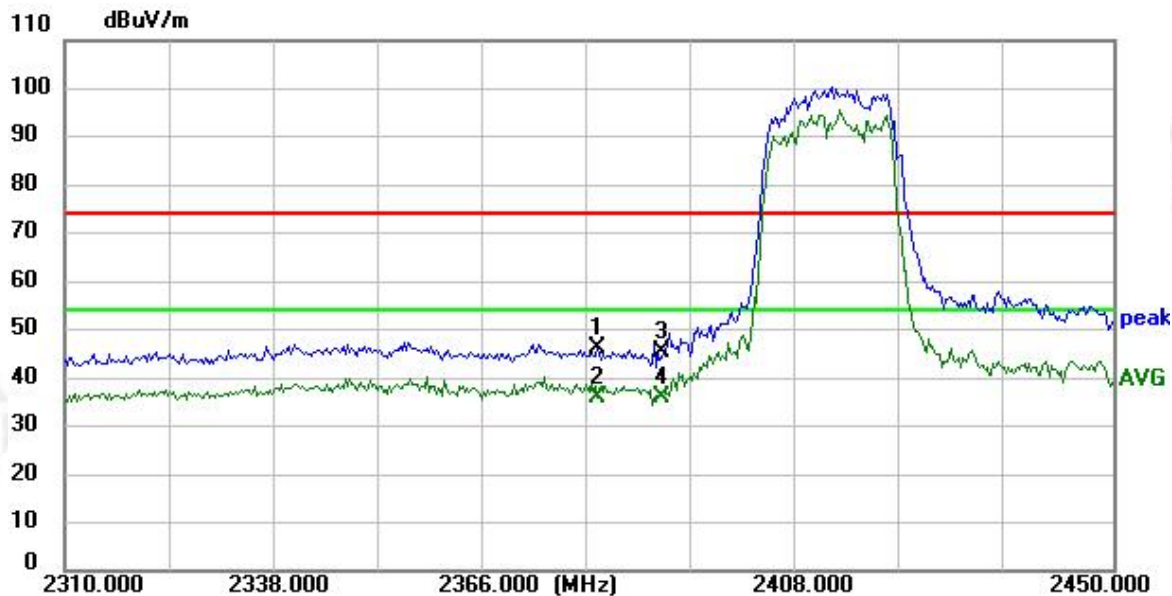
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	47.54	1.71	49.25	74.00	-24.75	peak
2 *	2483.5000	40.01	1.71	41.72	54.00	-12.28	AVG
3	2485.6000	44.61	1.73	46.34	74.00	-27.66	peak
4	2485.6000	37.18	1.73	38.91	54.00	-15.09	AVG



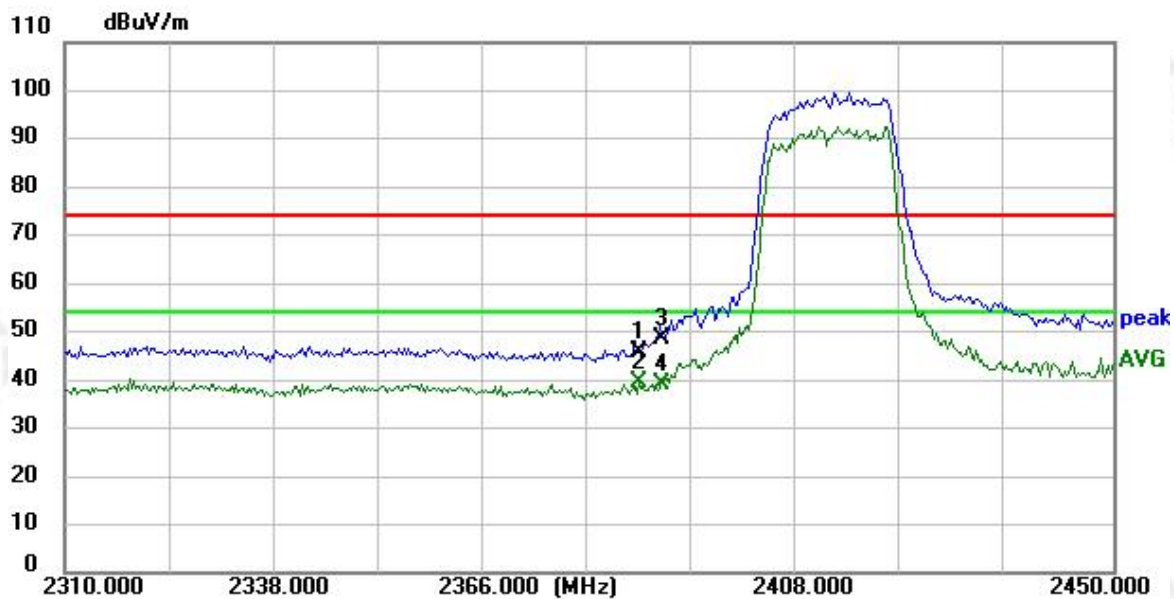
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11g Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2381.1200	44.55	1.56	46.11	74.00	-27.89	peak
2 *	2381.1200	34.54	1.56	36.10	54.00	-17.90	AVG
3	2390.0000	44.02	1.49	45.51	74.00	-28.49	peak
4	2390.0000	34.55	1.49	36.04	54.00	-17.96	AVG



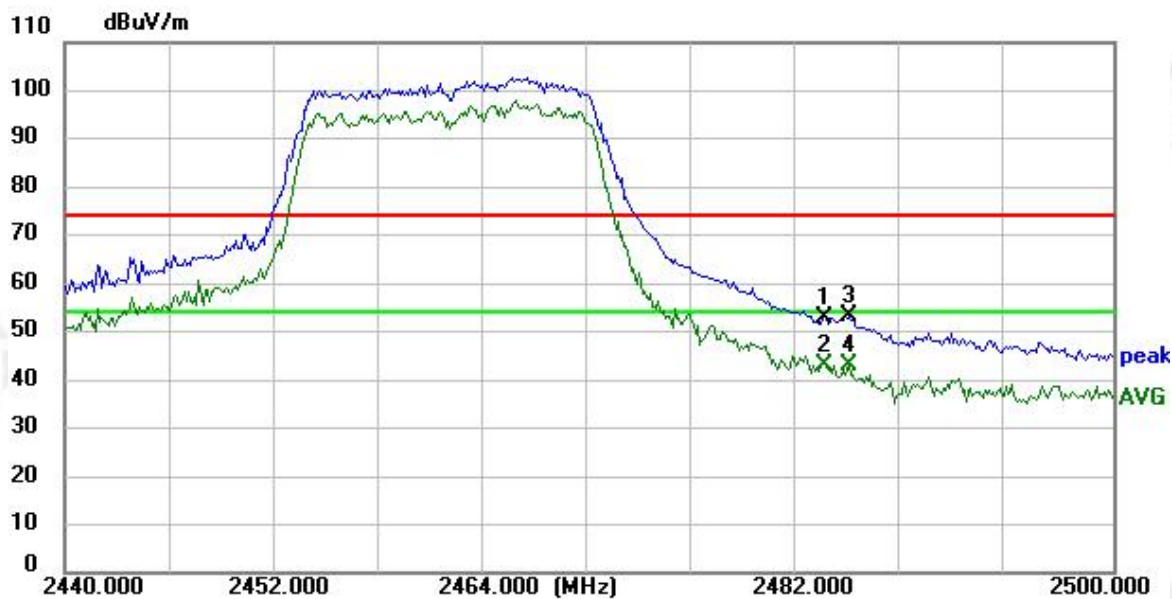
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11g Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2386.7200	44.11	1.51	45.62	74.00	-28.38	peak
2 *	2386.7200	37.93	1.51	39.44	54.00	-14.56	AVG
3	2390.0000	47.20	1.49	48.69	74.00	-25.31	peak
4	2390.0000	37.51	1.49	39.00	54.00	-15.00	AVG



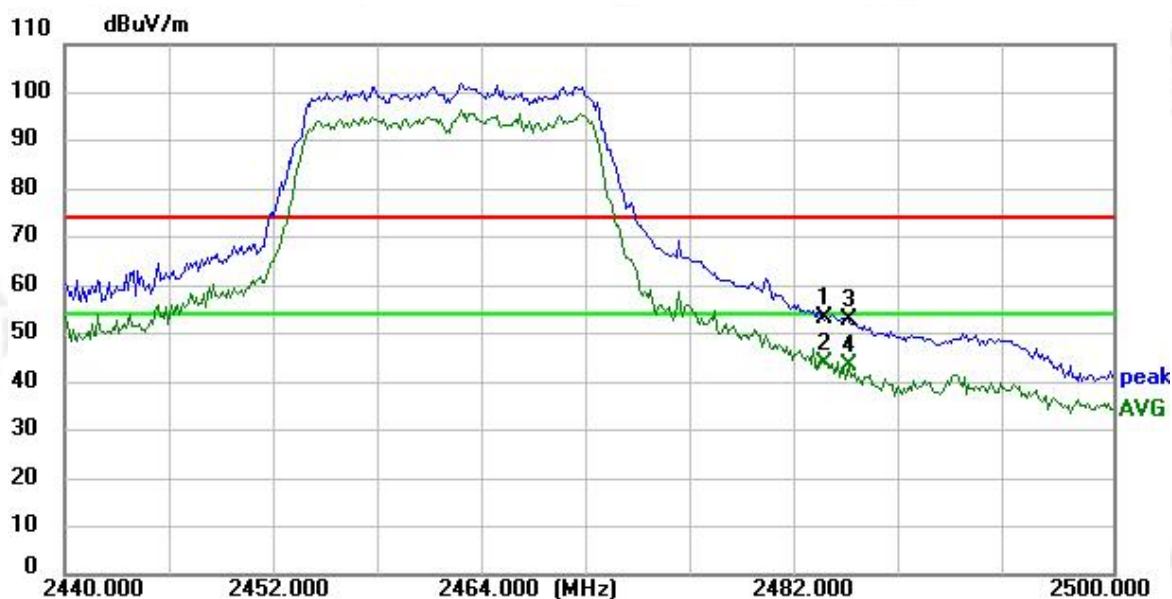
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11g High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	51.07	1.71	52.78	74.00	-21.22	peak
2	2483.5000	41.16	1.71	42.87	54.00	-11.13	AVG
3	2484.8799	51.40	1.72	53.12	74.00	-20.88	peak
4 *	2484.8799	41.18	1.72	42.90	54.00	-11.10	AVG



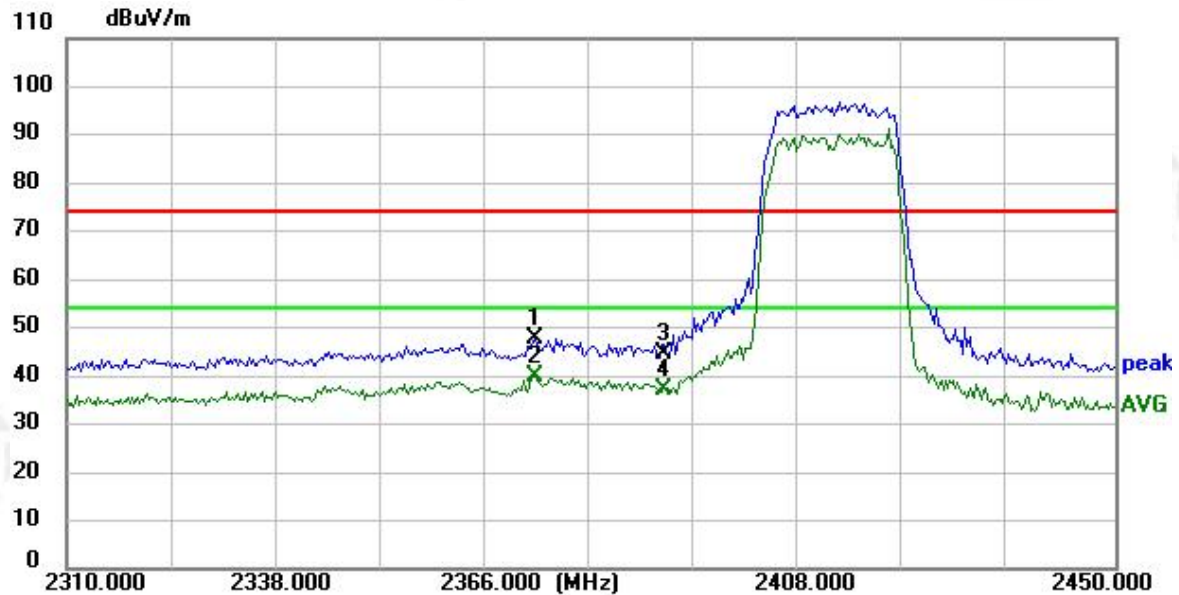
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11g High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	51.35	1.71	53.06	74.00	-20.94	peak
2 *	2483.5000	42.09	1.71	43.80	54.00	-10.20	AVG
3	2484.8799	50.93	1.72	52.65	74.00	-21.35	peak
4	2484.8799	41.65	1.72	43.37	54.00	-10.63	AVG



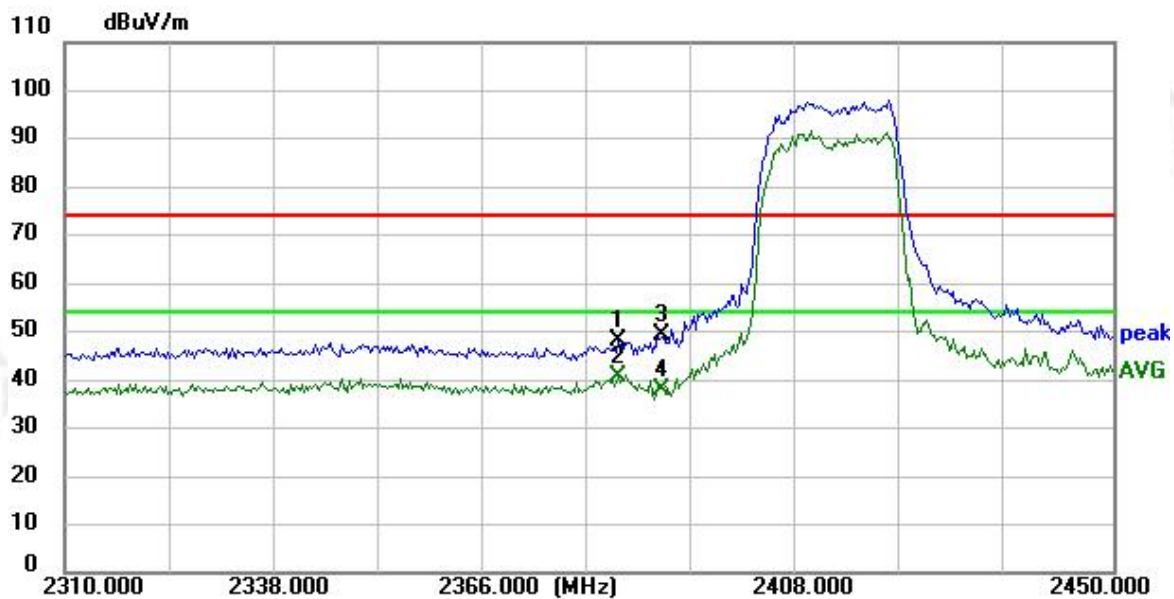
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n20 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2372.4400	46.12	1.63	47.75	74.00	-26.25	peak
2 *	2372.4400	38.11	1.63	39.74	54.00	-14.26	AVG
3	2390.0000	43.26	1.49	44.75	74.00	-29.25	peak
4	2390.0000	35.79	1.49	37.28	54.00	-16.72	AVG



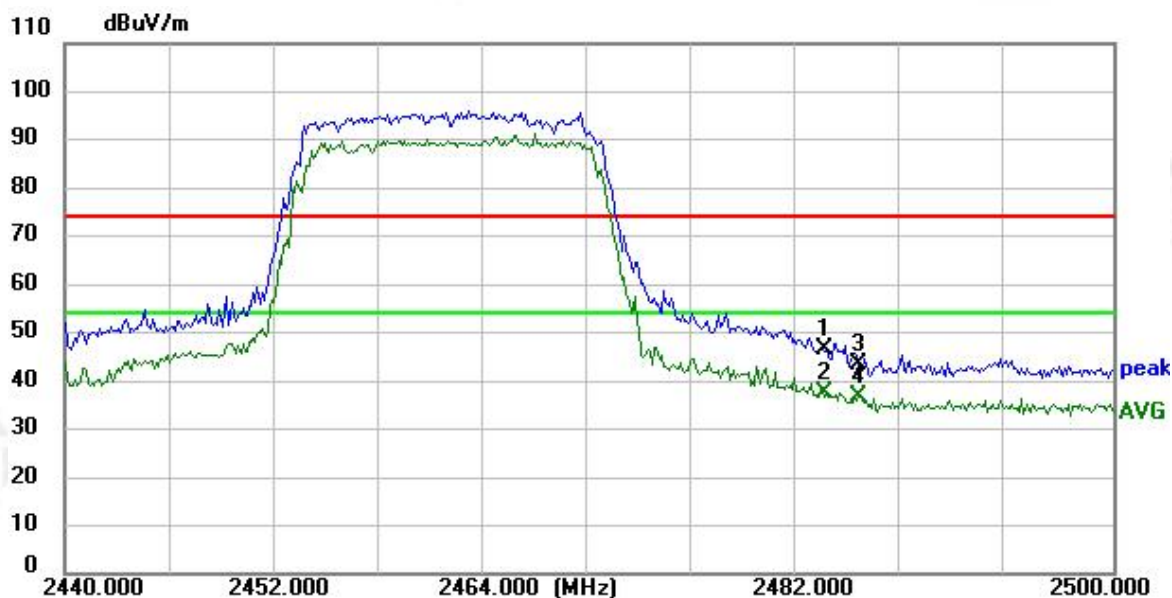
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n20 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2383.9200	46.75	1.54	48.29	74.00	-25.71	peak
2 *	2383.9200	39.08	1.54	40.62	54.00	-13.38	AVG
3	2390.0000	47.82	1.49	49.31	74.00	-24.69	peak
4	2390.0000	36.53	1.49	38.02	54.00	-15.98	AVG



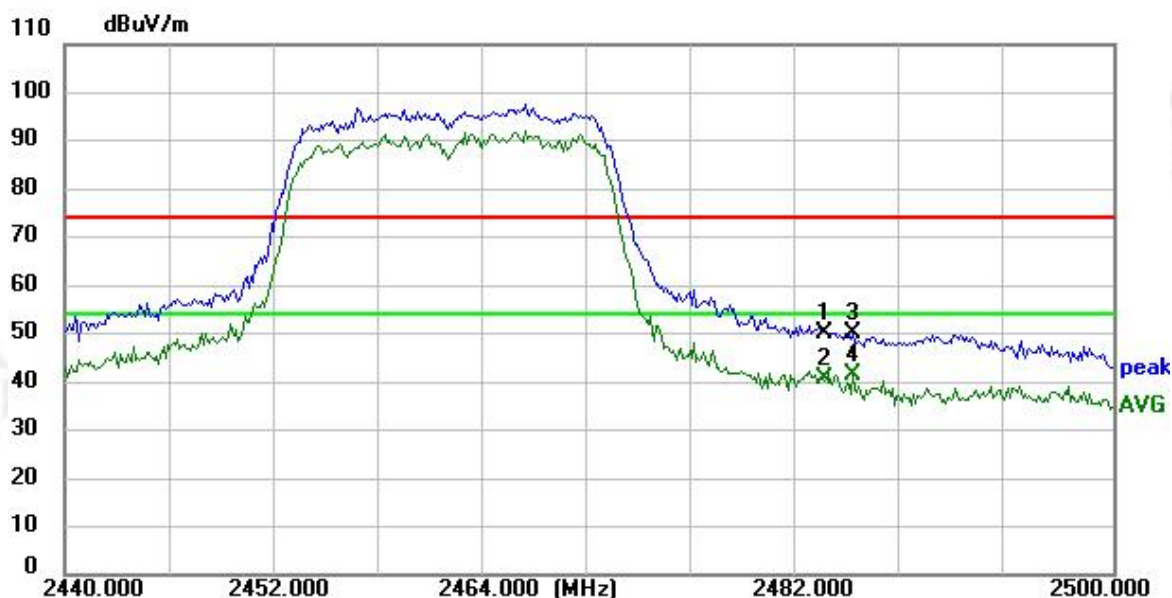
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n20 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	44.99	1.71	46.70	74.00	-27.30	peak
2 *	2483.5000	35.79	1.71	37.50	54.00	-16.50	AVG
3	2485.4800	41.68	1.73	43.41	74.00	-30.59	peak
4	2485.4800	35.00	1.73	36.73	54.00	-17.27	AVG



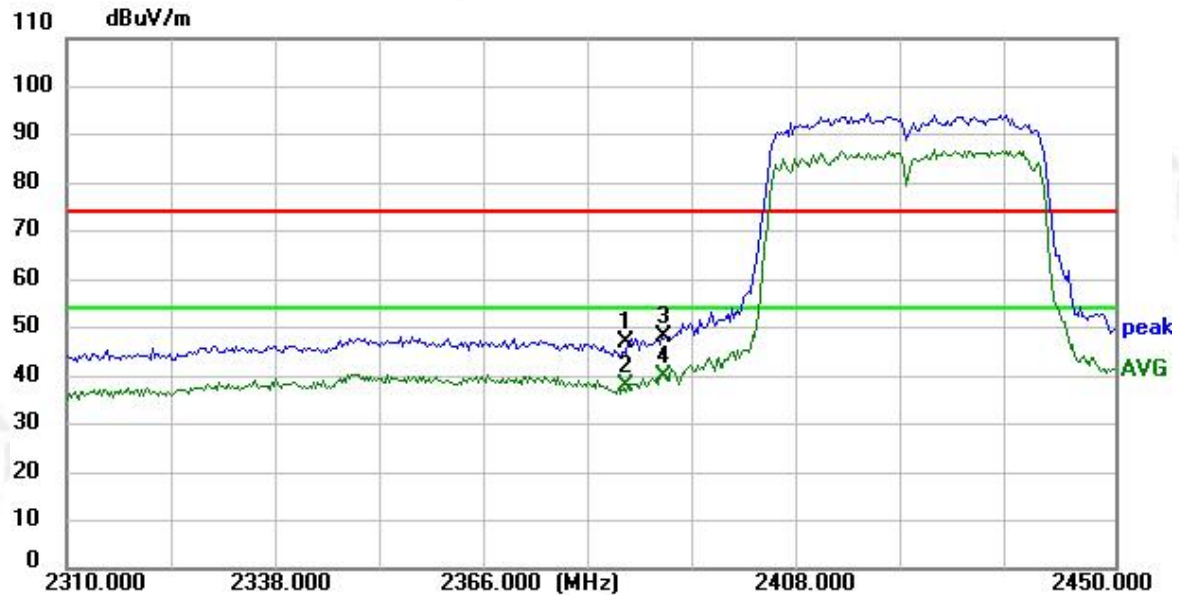
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n20 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	48.19	1.71	49.90	74.00	-24.10	peak
2	2483.5000	39.09	1.71	40.80	54.00	-13.20	AVG
3	2485.1200	48.53	1.72	50.25	74.00	-23.75	peak
4 *	2485.1200	39.62	1.72	41.34	54.00	-12.66	AVG



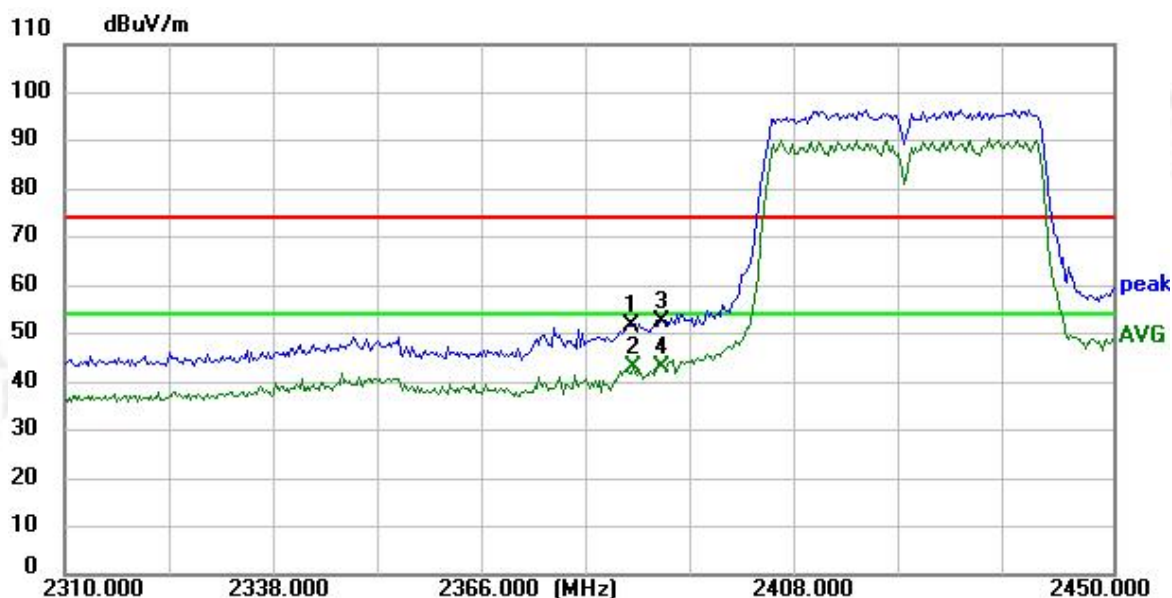
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n40 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2385.0000	45.28	1.53	46.81	74.00	-27.19	peak
2	2385.0000	36.31	1.53	37.84	54.00	-16.16	AVG
3	2390.0000	46.49	1.49	47.98	74.00	-26.02	peak
4 *	2390.0000	38.39	1.49	39.88	54.00	-14.12	AVG



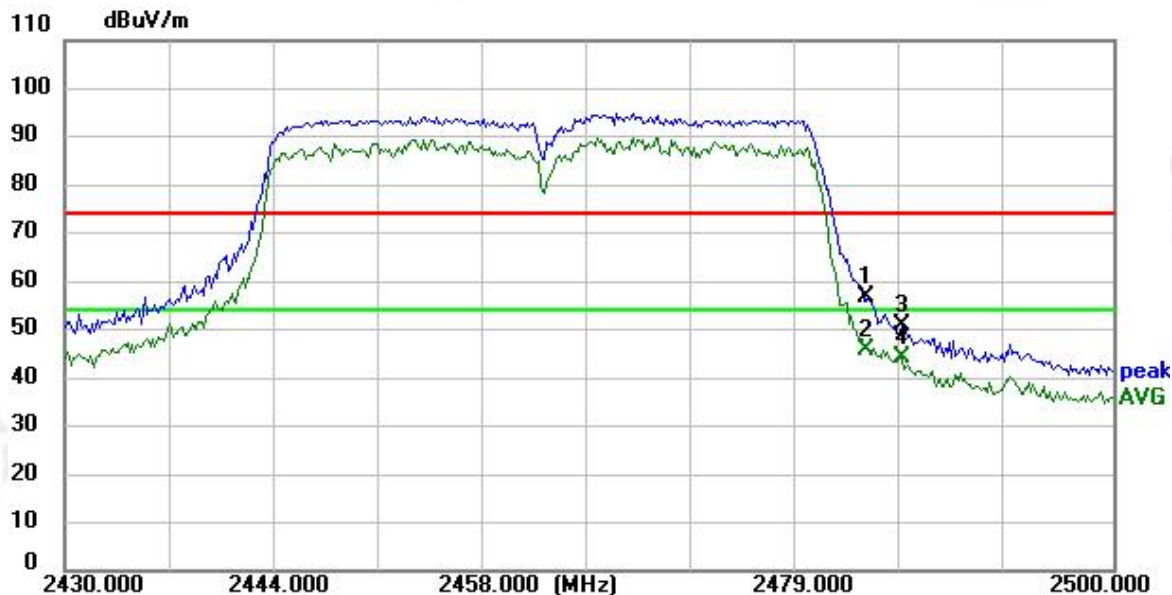
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n40 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2385.6000	49.97	1.52	51.49	74.00	-22.51	peak
2	2385.8798	41.37	1.52	42.89	54.00	-11.11	AVG
3	2390.0000	51.09	1.49	52.58	74.00	-21.42	peak
4 *	2390.0000	41.60	1.49	43.09	54.00	-10.91	AVG



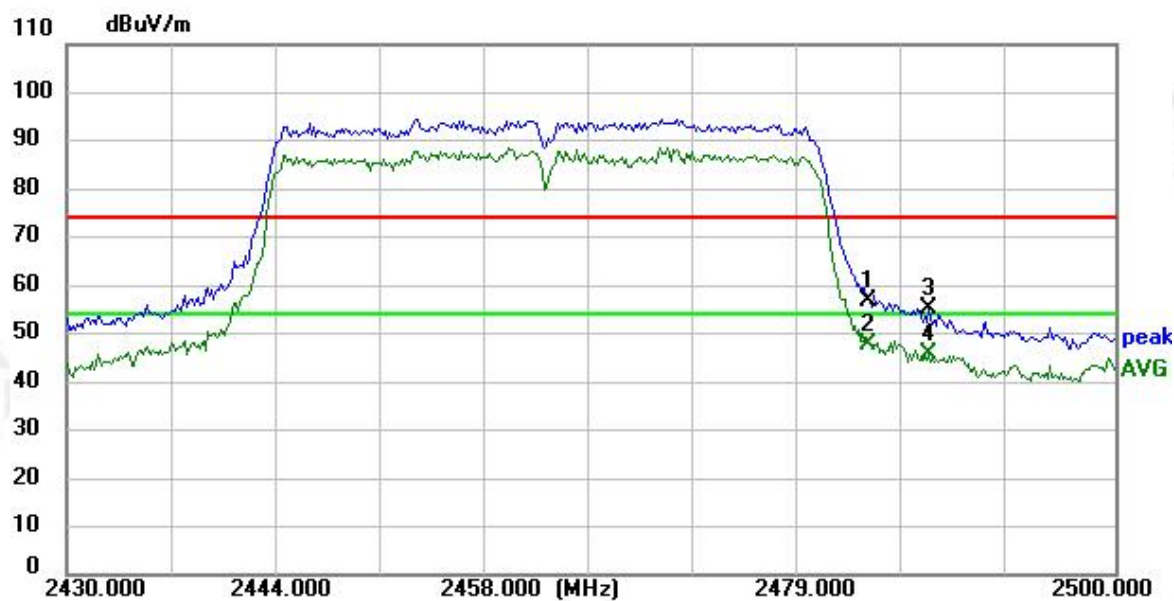
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.93	1.71	56.64	74.00	-17.36	peak
2 *	2483.5000	43.91	1.71	45.62	54.00	-8.38	AVG
3	2485.8600	49.12	1.74	50.86	74.00	-23.14	peak
4	2485.8600	42.48	1.74	44.22	54.00	-9.78	AVG



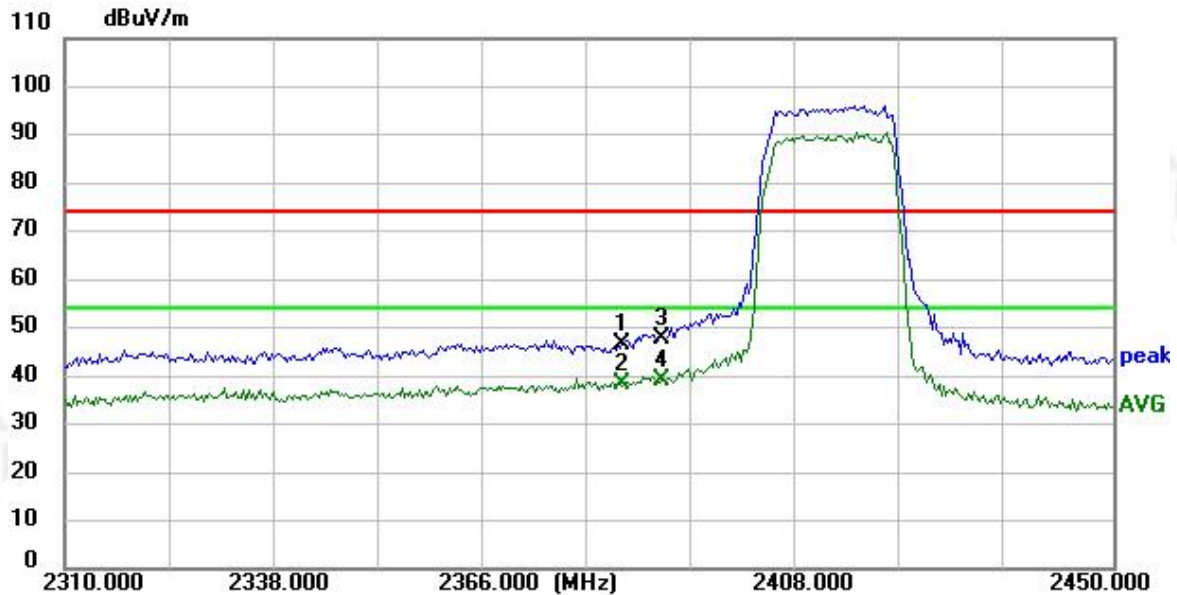
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11n40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.00	1.71	56.71	74.00	-17.29	peak
2 *	2483.5000	45.88	1.71	47.59	54.00	-6.41	AVG
3	2487.5400	53.35	1.74	55.09	74.00	-18.91	peak
4	2487.5400	44.02	1.74	45.76	54.00	-8.24	AVG



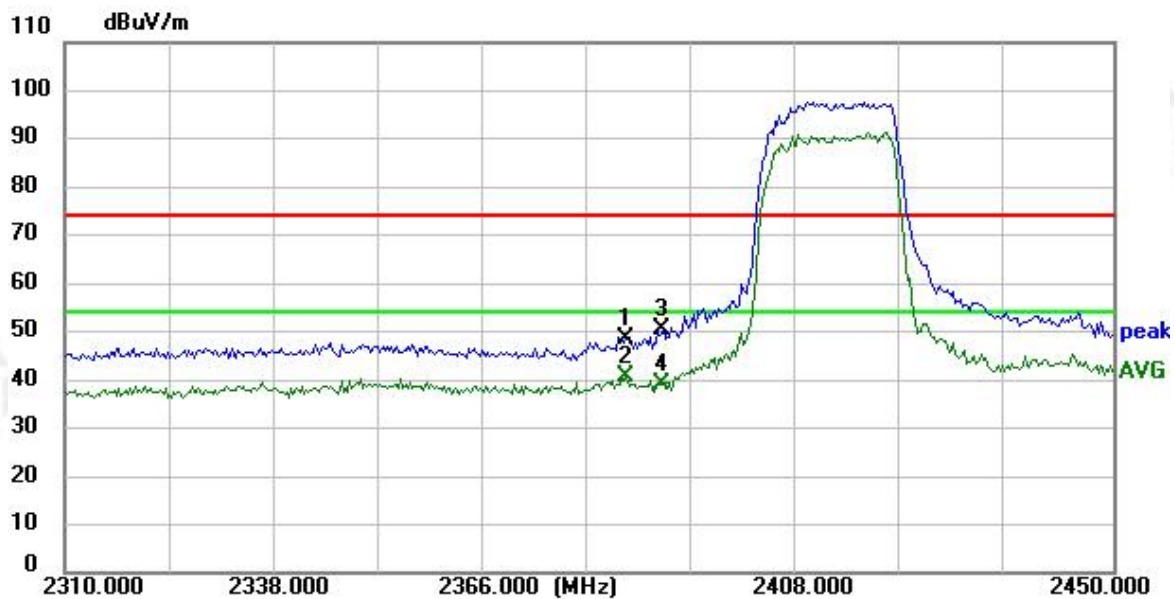
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax20 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2384.4800	45.15	1.53	46.68	74.00	-27.32	peak
2	2384.4800	36.68	1.53	38.21	54.00	-15.79	AVG
3	2390.0000	46.26	1.49	47.75	74.00	-26.25	peak
4 *	2390.0000	37.79	1.49	39.28	54.00	-14.72	AVG



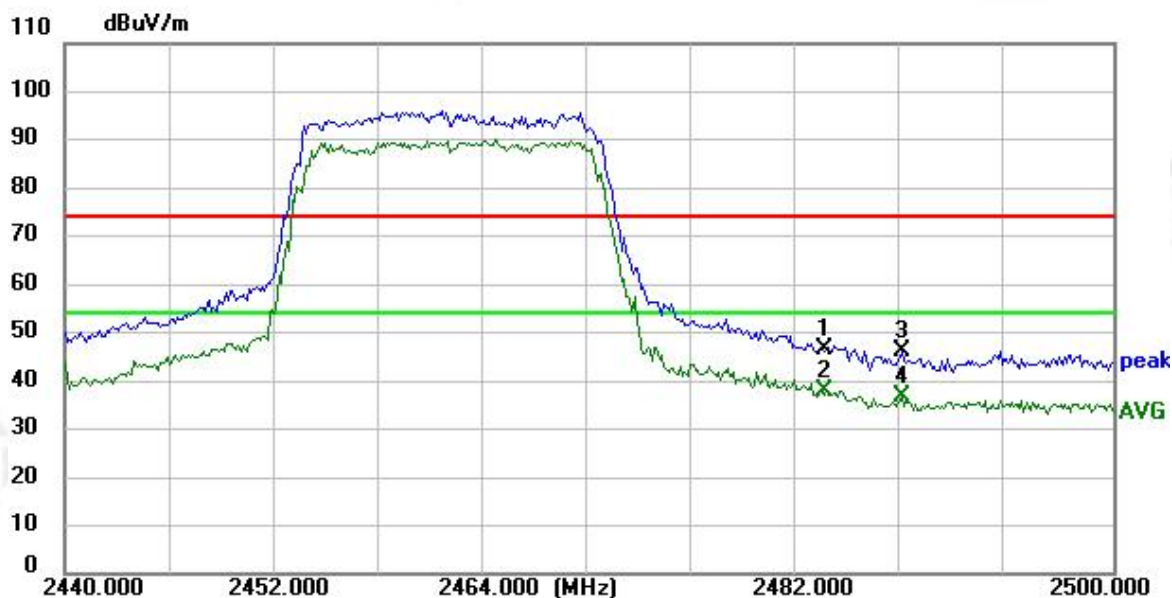
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax20 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2385.0400	47.10	1.53	48.63	74.00	-25.37	peak
2 *	2385.0400	39.16	1.53	40.69	54.00	-13.31	AVG
3	2390.0000	48.82	1.49	50.31	74.00	-23.69	peak
4	2390.0000	37.53	1.49	39.02	54.00	-14.98	AVG



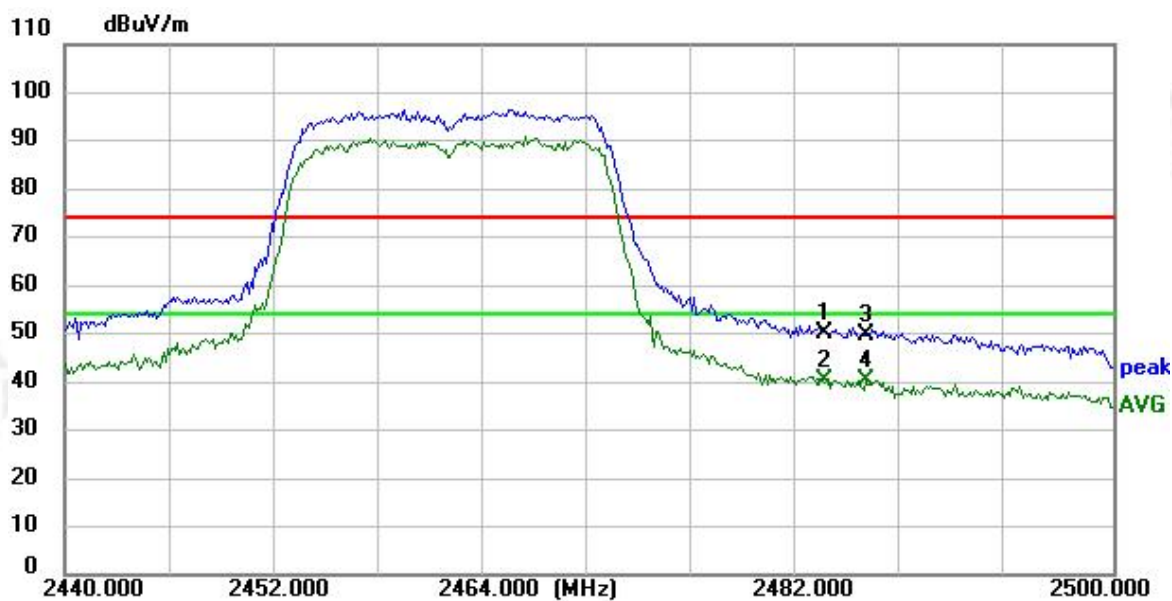
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax20 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	44.99	1.71	46.70	74.00	-27.30	peak
2 *	2483.5000	36.29	1.71	38.00	54.00	-16.00	AVG
3	2487.8799	44.29	1.74	46.03	74.00	-27.97	peak
4	2487.8799	35.06	1.74	36.80	54.00	-17.20	AVG



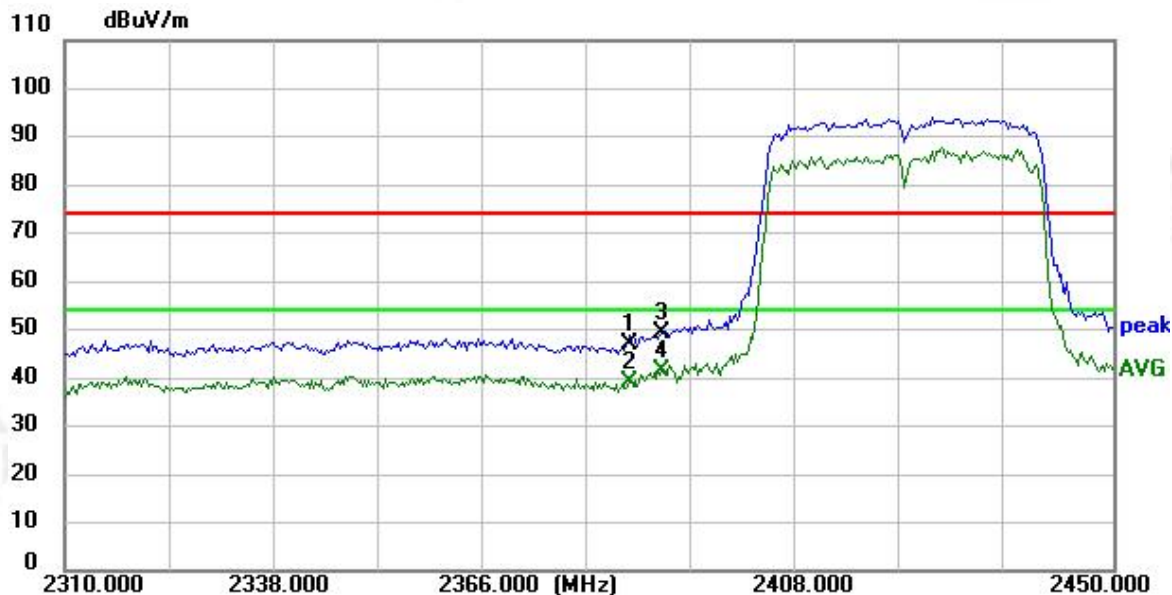
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax20 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	48.19	1.71	49.90	74.00	-24.10	peak
2	2483.5000	38.59	1.71	40.30	54.00	-13.70	AVG
3	2485.8400	48.13	1.74	49.87	74.00	-24.13	peak
4 *	2485.8400	38.66	1.74	40.40	54.00	-13.60	AVG



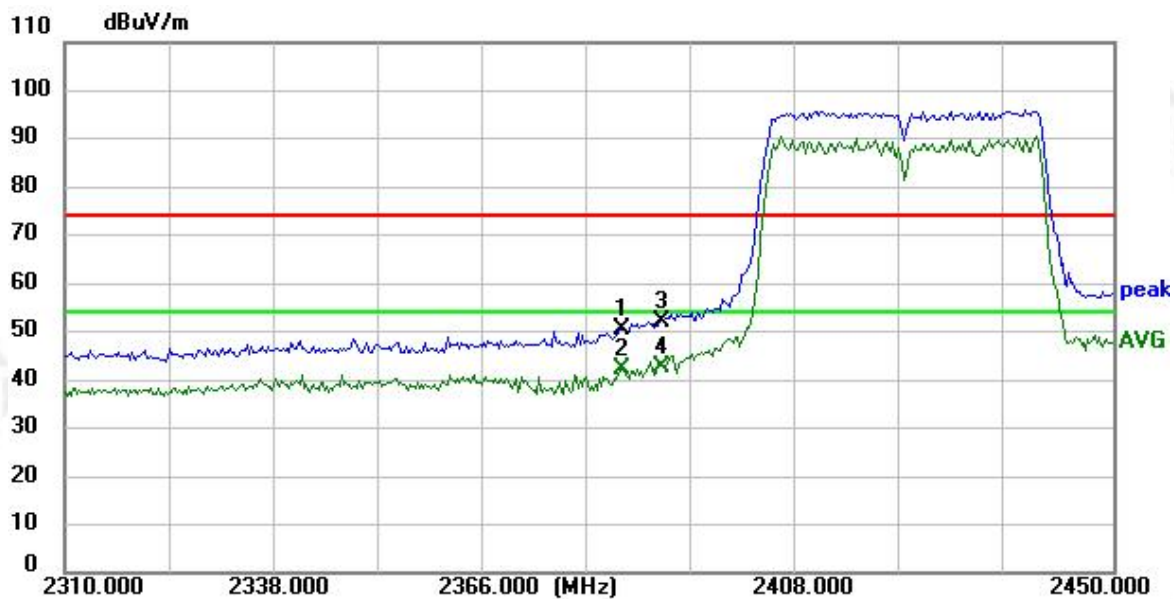
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax40 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2385.3200	45.28	1.53	46.81	74.00	-27.19	peak
2	2385.3200	37.68	1.53	39.21	54.00	-14.79	AVG
3	2390.0000	47.99	1.49	49.48	74.00	-24.52	peak
4 *	2390.0000	39.89	1.49	41.38	54.00	-12.62	AVG



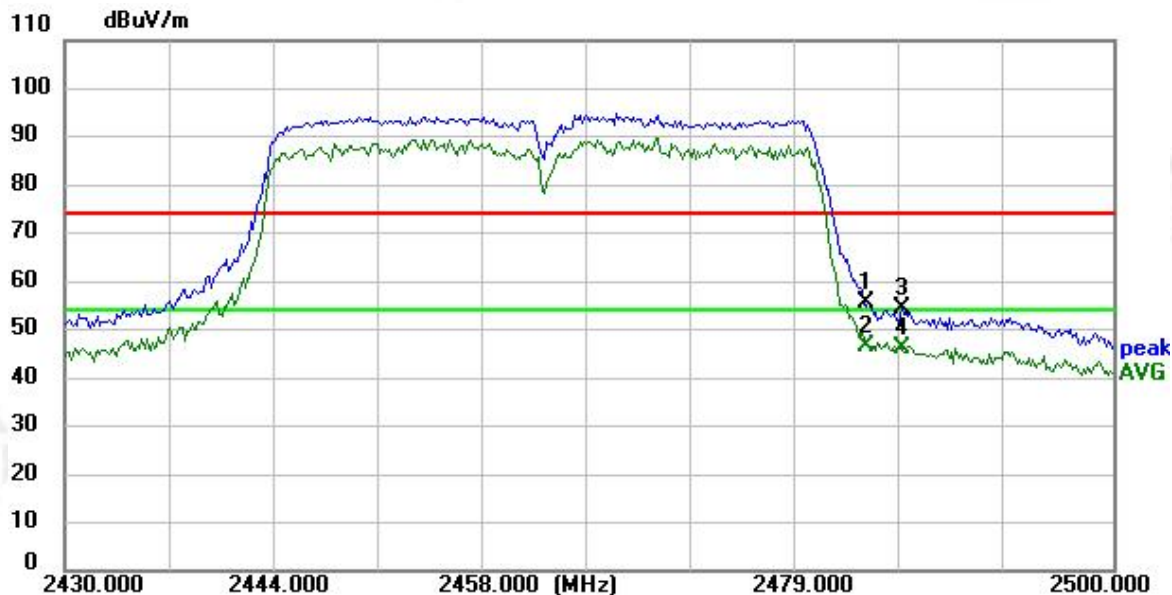
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax40 Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2384.4800	48.95	1.53	50.48	74.00	-23.52	peak
2	2384.4800	40.54	1.53	42.07	54.00	-11.93	AVG
3	2390.0000	50.59	1.49	52.08	74.00	-21.92	peak
4 *	2390.0000	41.10	1.49	42.59	54.00	-11.41	AVG



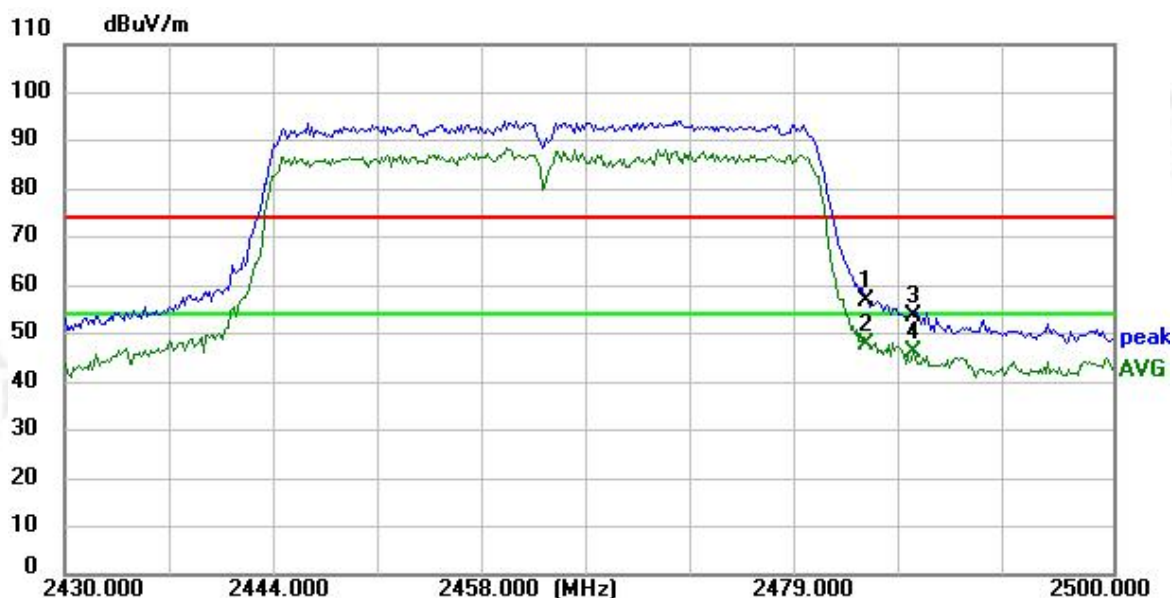
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	53.93	1.71	55.64	74.00	-18.36	peak
2 *	2483.5000	44.91	1.71	46.62	54.00	-7.38	AVG
3	2485.8600	52.62	1.74	54.36	74.00	-19.64	peak
4	2485.8600	44.38	1.74	46.12	54.00	-7.88	AVG



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from adapter input AC 120V/60Hz	Mode	802.11ax40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.00	1.71	56.71	74.00	-17.29	peak
2 *	2483.5000	45.88	1.71	47.59	54.00	-6.41	AVG
3	2486.7000	51.88	1.74	53.62	74.00	-20.38	peak
4	2486.7000	44.27	1.74	46.01	54.00	-7.99	AVG

Note:

1. Remark: Level=Reading+Factor

Factor=Cable Loss+ANT Factor-AMP Factor

Margin=Level - Limit

2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

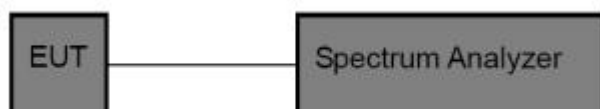


7 Duty cycle

7.1 Limit

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018; ANSI C63.10:2020
Test Result:	PASS

7.2 Test Setup



7.3 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set the center frequency of the instrument to the center frequency of the transmission.
 - b) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - c) Set $VBW \geq RBW$. Detector = peak or average.
 - d) Sweep time = auto couple.
 - e) Trace mode = max hold.
 - f) Allow trace to fully stabilize.
 - g) The zero-span mode on a spectrum analyzer.

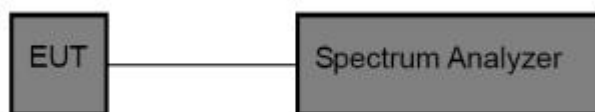
7.4 Test Result

Please see the Appendix for the WIFI 2.4G Test data.

8 Conduct Band Edge And Spurious Emissions Measurement

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10-2020+Cor 1+2023
Test Limit	:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions 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) (see §15.205(c)).

8.1 Test Setup



8.2 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector fuNCTion = peak, Trace = max hold
Note: Input Offset (dB) = Cable Loss (dB)

8.3 Test Result

Please see the Appendix for the WIFI 2.4G Test data.



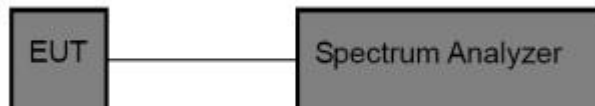
9 6dB&99% Bandwidth Measurement

Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10-2020+Cor 1+2023

Test Limit : Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

9.1 Test Setup



9.2 Test Procedure

For 6dB Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: $RBW = 1\%-5\% \text{ OBW}$, $VBW \geq 3RBW$

For 99% Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: $RBW = 1\%-5\% \text{ OBW}$, $VBW \geq 3RBW$

9.3 Test Result

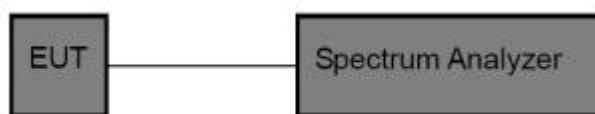
Please see the Appendix for the WIFI 2.4G Test data.



10 Maximum Output Power

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10-2020+Cor 1+2023
Test Limit	:	Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

10.1 Test Setup



10.2 Test Procedure

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to >1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = Power averaging (rms), if available. Otherwise, use the sample detector mode.
- Do not use sweep triggering. Allow the sweep to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 until trace is stabilized so that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%

10.3 Test Result

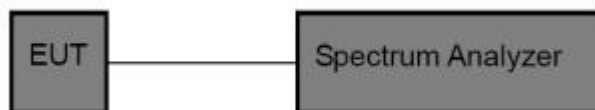
Please see the Appendix for the WIFI 2.4G Test data.



11 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10-2020+Cor 1+2023
Test Limit	: Regulation 15.247(e) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

11.1 Test Setup



11.2 Test Procedure

Method AVGPDS-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

- Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
- Set instrument center frequency to DTS channel center frequency.
- Set span to > 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Detector = power averaging (rms) or sample detector (when rms not available).
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- Sweep time = auto couple.
- Do not use sweep triggering; allow sweep to “free run.”
- Employ trace averaging (rms) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

11.3 Test Result

Please see the Appendix for the WIFI 2.4G Test data.





12 Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Result

The antenna is Internal Antenna, the Max gain of the antennas is 2.35dBi, reference to the attachment for details.



13 Test Setup and EUT Photos

Reference to the attachment for details.

*******THE END REPORT*******