

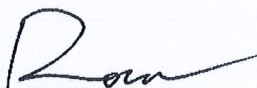
RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant : Acrox Technologies Co., Ltd.
Address : 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan
Manufacturer/Factory : Acrox Technologies Co., Ltd.
Address : Hsinmin Industrial, Changan Town, Dongguan City, Guangdong, China
E.U.T. : 2.4G Dongle
Brand Name : Acrox, onn
Model No. : MQL
FCC ID : PRDRX0I
Measurement Standard : FCC PART 15.249: 2016
Date of Receiver : November 07, 2017
Date of Test : November 07, 2017 to November 08, 2017
Date of Report : November 09, 2017

This Test Report is Issued Under the Authority of :

Prepared by



Rose Hu / Engineer

Approved & Authorized Signer



Iori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1706421FV00	Initial Issue	2017-11-09

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Model Name	: MQL
Model Difference Description	: None
Power Supply	: DC 5V
Test Voltage	: AC 120V 60Hz PC Input

Technical Specification:

2.4G Function:

Frequency Range	: 2404-2478MHz
Modulation Type	: GFSK
Number of Channel	: 20
Antenna Type	: PCB
Antenna Gain	: -0.5 dBi (Declaration by manufacturer)
Hardware version	: V1.0
Software version	: V1.0

Channel List:

Channel	1	2	3	4	5
Frequency(MHz)	2404	2414	2478	2408	2454
Channel	6	7	8	9	10
Frequency(MHz)	2406	2456	2410	2405	2474
Channel	11	12	13	14	15
Frequency(MHz)	2425	2450	2470	2458	2477
Channel	16	17	18	19	20
Frequency(MHz)	2452	2460	2435	2466	2441

Note: The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2404MHz
The middle frequency: 2441MHz
The Highest frequency: 2478MHz

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: PRDRX0I filing to comply with Section 15.249 of the FCC Part 15 (2016), Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

Notebook PC	: Manufacturer: Lenovo Model: TP00067A P/N: SL10G10768 S/N: PF-0DS3YC 15/12 CE, FCC: DOC
Adapter	: Manufacturer: Lenovo Model: ADLX65NLC3A I/P: AC 100-240V 50-60Hz, 1.8A O/P: DC 20V 3.25A

1.6 Test Facility and Location

Listed by CNAS, August 14, 2015

The certificate is valid until August 13, 2018

The Laboratory has been assessed and proved to be in compliance with CNAS/CL01

The Certificate Registration Number is L5795.

Listed by FCC, July 03, 2014

The Certificate Registration Number is 665078.

Listed by Industry Canada, June 18, 2014

The Certificate Registration Number is 46405-9743.

Listed by FCC A2LA, November 01, 2017

The Certificate Number is 4429.01.

Dongguan NTC Co., Ltd.

(Full Name: Dongguan Nore Testing Center Co., Ltd.)

Building D, Gaosheng Science and Technology Park, Hongtu Road,
Nancheng District, Dongguan City, Guangdong, China

(Full Name: Building D, Gaosheng Science & Technology Park,
Zhouxi Longxi Road, Nancheng District, Dongguan, Guangdong, China.

1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207(a)	AC Power Conducted Emission	±1.06dB	Compliant
§15.249(a)/ 15.209	Radiated Emissions	±3.70dB	Compliant
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant
§15.215(c)	20dB Bandwidth	±1.42 x10 ⁻⁴ %	Compliant
§15.203	Antenna Requirement	±0.60dB	Compliant

2. System Test Configuration

2.1 EUT Configuration

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.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

2.4 EUT Exercise

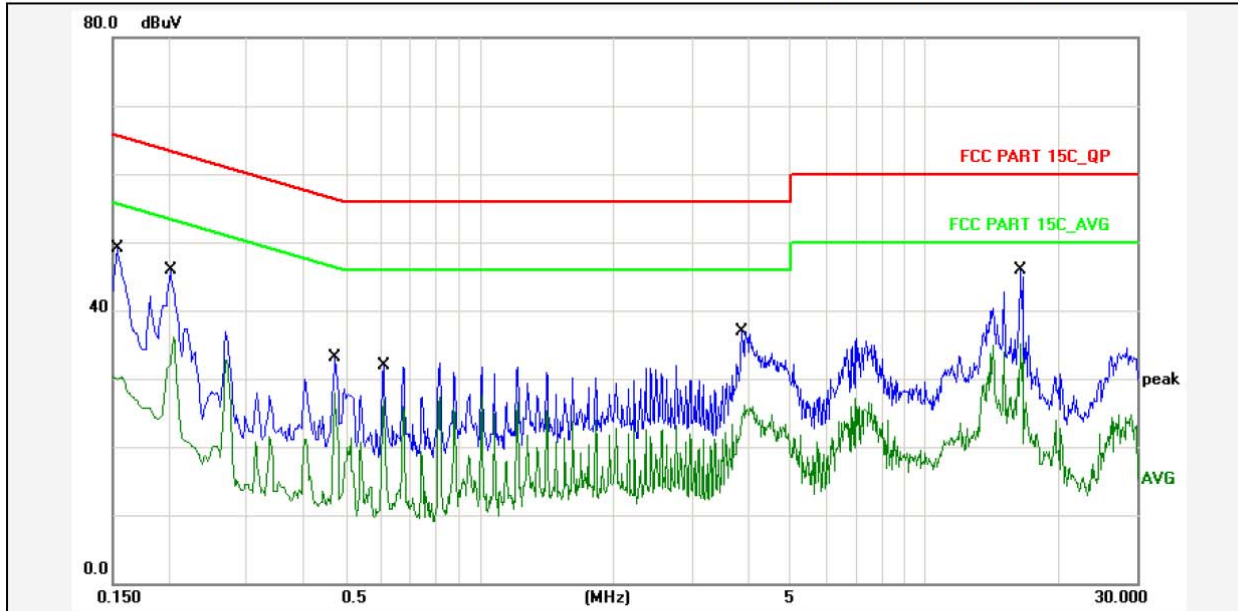
The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.



Dongguan NTC Co., Ltd.
Tel: +86-769-22022444 Fax: +86-769-22022799
Web: [Http://www.ntc-c.com](http://www.ntc-c.com)

Site: Conduction

Test Time: 2017-11-08 16:32:40



Report No.: MQL

Test Standard: FCC PART 15C_QP

Test item: Conducted Emission

Applicant: ACROX

Product: 2.4GHz Dongle

Model No.: MQL

Phase: L1

Temp.()/Hum.(%): 26(C) / 52 %

Power Rating: AC 120V/60Hz

Test Engineer: Lay

Test Mode: TX

Remark:

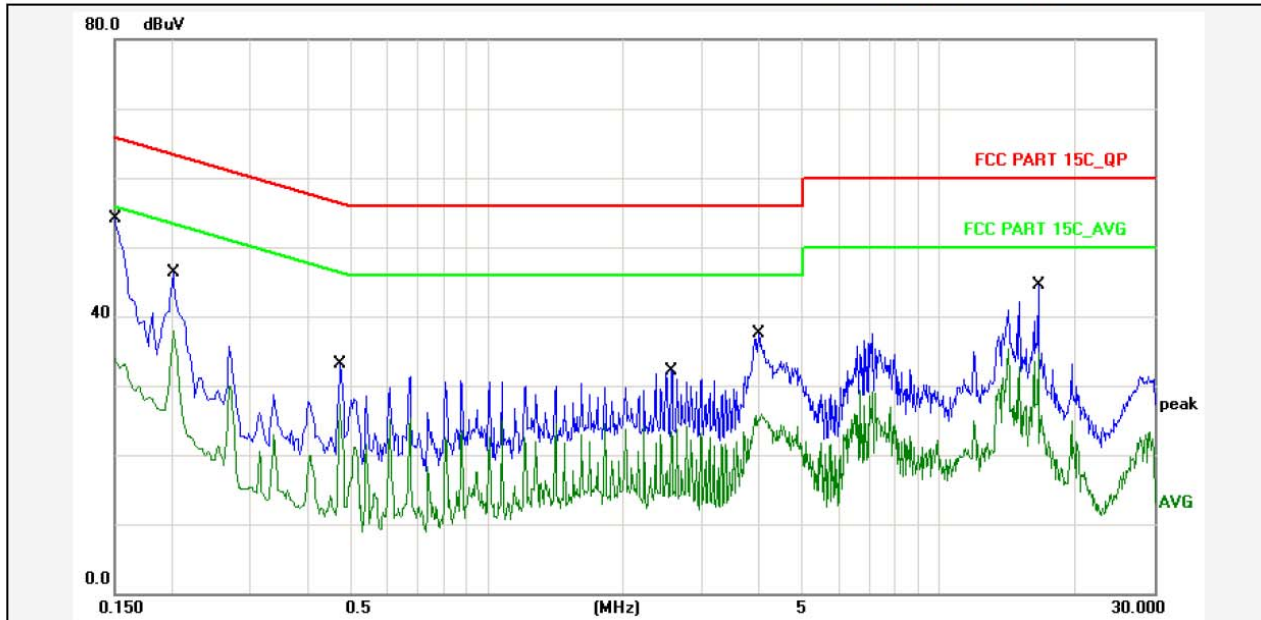
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	10.80	36.40	47.20	65.78	-18.58	QP	P	
2	0.1539	10.80	17.40	28.20	55.78	-27.58	AVG	P	
3	0.2020	10.80	33.10	43.90	63.52	-19.62	QP	P	
4	0.2020	10.80	23.30	34.10	53.52	-19.42	AVG	P	
5	0.4740	10.80	20.30	31.10	56.44	-25.34	QP	P	
6	0.4740	10.80	15.20	26.00	46.44	-20.44	AVG	P	
7	0.6099	10.80	19.10	29.90	56.00	-26.10	QP	P	
8	0.6099	10.80	14.20	25.00	46.00	-21.00	AVG	P	
9	3.8940	10.80	24.10	34.90	56.00	-21.10	QP	P	
10	3.8940	10.80	13.20	24.00	46.00	-22.00	AVG	P	
11	16.4057	10.80	33.20	44.00	60.00	-16.00	QP	P	
12	16.4057	10.80	22.30	33.10	50.00	-16.90	AVG	P	



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Web: [Http://www.ntc-c.com](http://www.ntc-c.com)

Site: Conduction

Test Time: 2017-11-08 16:25:51



Report No.: MQL

Test Standard: FCC PART 15C_QP

Test item: Conducted Emission

Phase: N

Applicant: ACROX

Temp.()/Hum.(%): 26(C) / 52 %

Product: 2.4GHz Dongle

Power Rating: AC 120V/60Hz

Model No.: MQL

Test Engineer: Lay

Test Mode: TX

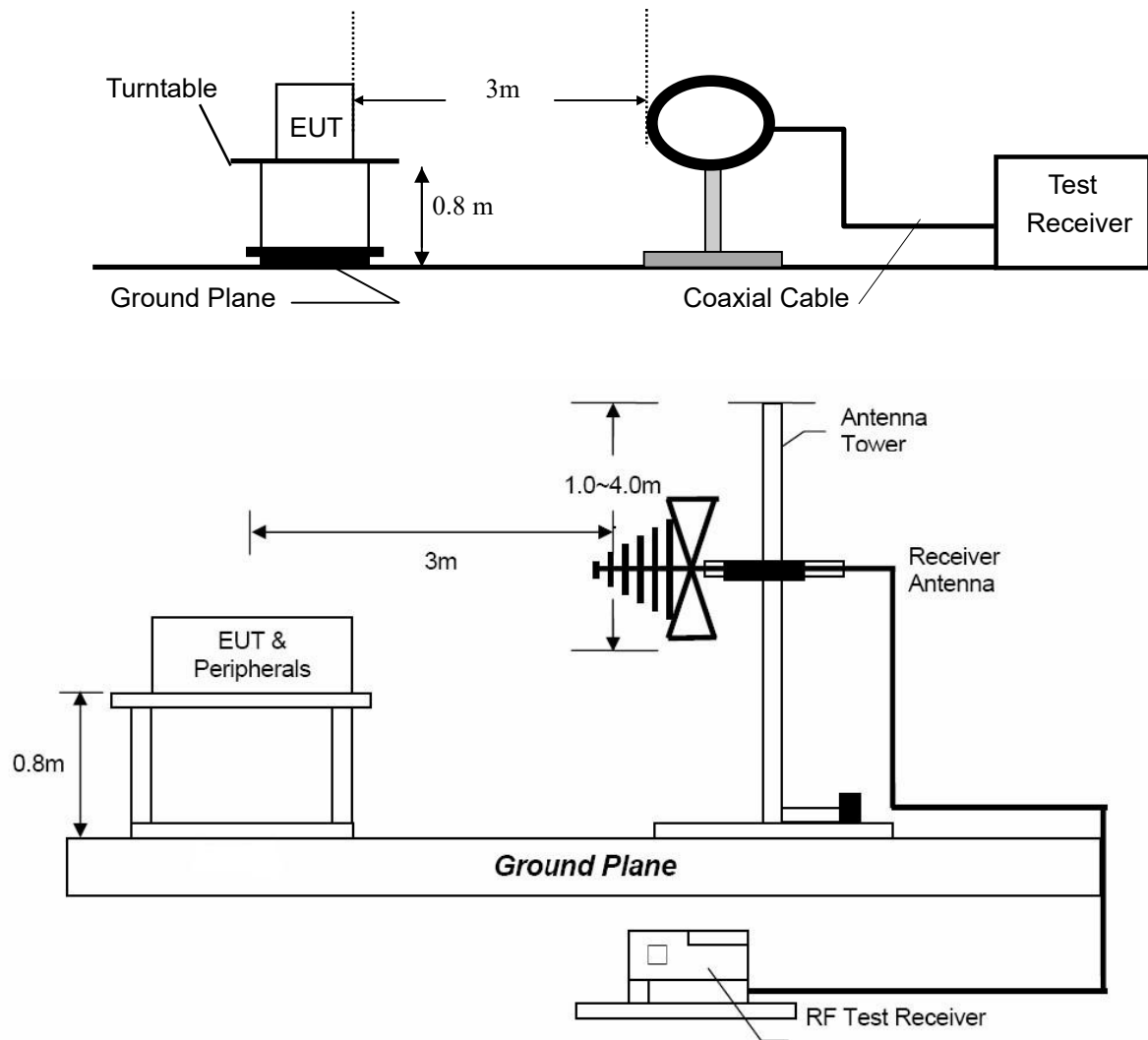
Remark:

No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	10.80	41.30	52.10	65.99	-13.89	QP	P	
2	0.1500	10.80	21.10	31.90	55.99	-24.09	AVG	P	
3	0.2020	10.80	33.40	44.20	63.52	-19.32	QP	P	
4	0.2020	10.80	25.20	36.00	53.52	-17.52	AVG	P	
5	0.4740	10.80	20.30	31.10	56.44	-25.34	QP	P	
6	0.4740	10.80	14.50	25.30	46.44	-21.14	AVG	P	
7	2.5660	10.80	19.20	30.00	56.00	-26.00	QP	P	
8	2.5660	10.80	10.90	21.70	46.00	-24.30	AVG	P	
9	3.9940	10.80	24.70	35.50	56.00	-20.50	QP	P	
10	3.9940	10.80	13.20	24.00	46.00	-22.00	AVG	P	
11	16.5819	10.80	31.80	42.60	60.00	-17.40	QP	P	
12	16.5819	10.80	21.80	32.60	50.00	-17.40	AVG	P	

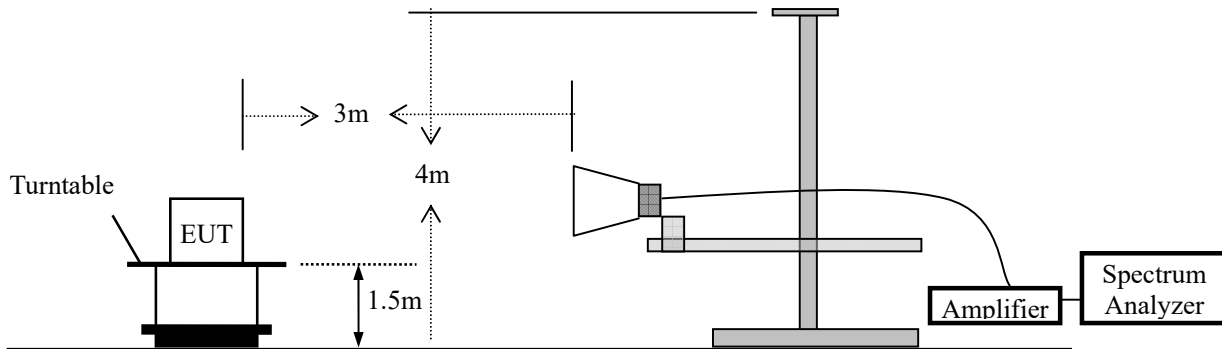
4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- For the radiated emission test above 1GHz:
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)	
		$\mu\text{V/m}$	
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	
88 ~ 216	3	150	
216 ~ 960	3	200	
Above 960	3	500	
Frequency range MHz	Distance Meters	Field Strengths Limit (15.249)	
		mV/m (Field strength of fundamental)	$\mu\text{V/m}$ (Field strength of Harmonics)
902 ~ 928	3	50	500
2400 ~ 2483.5	3	50	500
5725 ~ 5875	3	50	500
24000 ~ 2425000	3	250	2500

- Remark : (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

4.4 Measurement Results

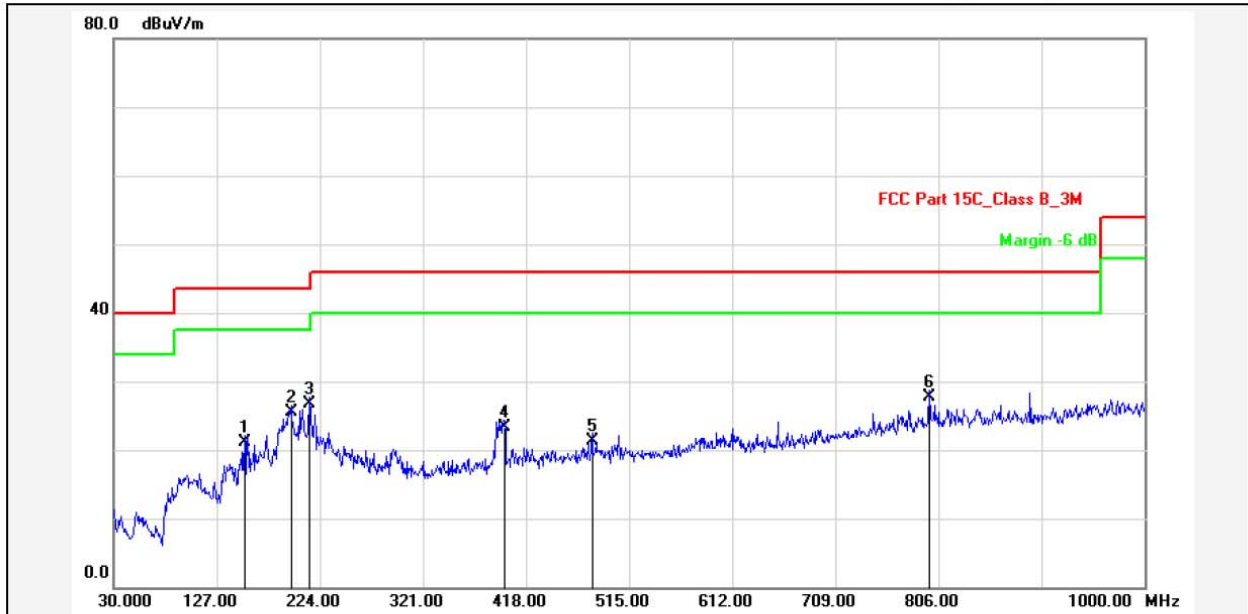
Please refer to following the test plots of the worst case: middle channel.



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Tel: +86-769-22022444 Fax: +86-769-22022799
Web: [Http://www.ntc-c.com](http://www.ntc-c.com)

Site: Radiation

Test Time: 2017-11-08 11:05:01



Report No.: MQL

Test Standard: FCC Part 15C_Class B_3M

Test item: Radiation Emission

Applicant: ACROX

Product: 2.4GHz Dongle

Model No.: MQL

Test Distance: 3m

Ant. Polarization: Horizontal

Temp.(C)/Hum.(%): 24(C) / 47 %

Power Rating: AC 120V/60Hz

Test Engineer: Ivan

Test Mode: TX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	153.1900	-15.40	36.50	21.10	43.50	-22.40	QP			P	
2	196.8400	-13.41	39.01	25.60	43.50	-17.90	QP			P	
3	214.3000	-13.13	39.93	26.80	43.50	-16.70	QP			P	
4	397.6300	-9.13	32.43	23.30	46.00	-22.70	QP			P	
5	480.0800	-7.21	28.61	21.40	46.00	-24.60	QP			P	
6	797.2700	-1.99	29.69	27.70	46.00	-18.30	QP			P	

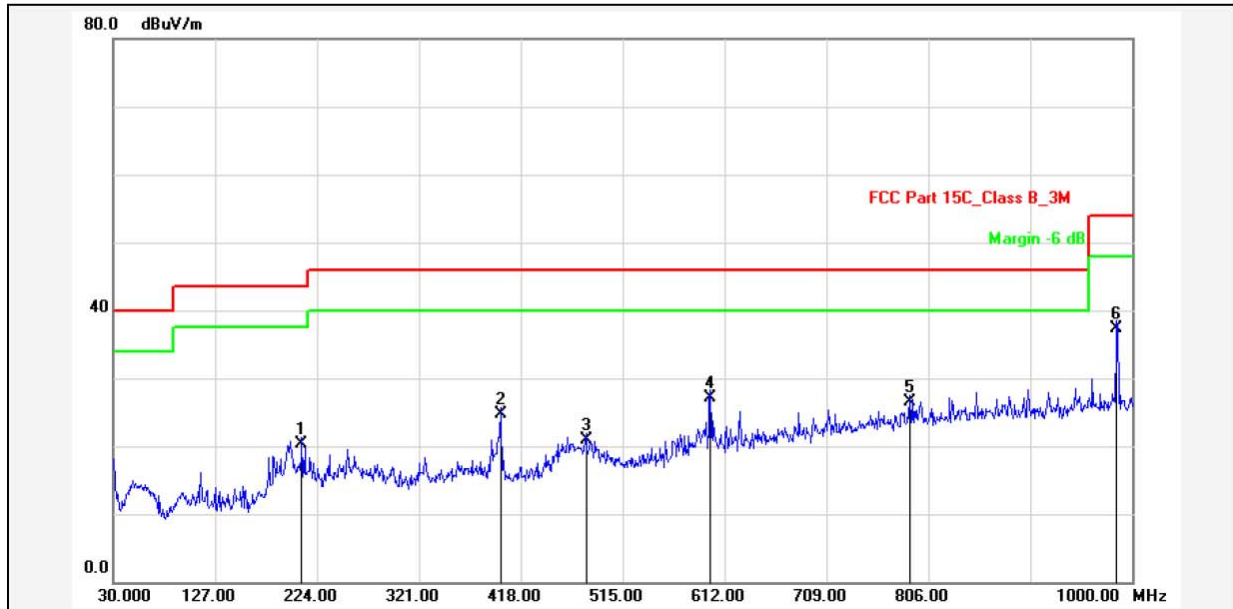
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.



Dongguan NTC Co., Ltd.
Tel: +86-769-22022444 Fax: +86-769-22022799
Web: [Http://www.ntc-c.com](http://www.ntc-c.com)

Site: Radiation

Test Time: 2017-11-08 11:12:15



Report No.: MQL

Test Standard: FCC Part 15C_Class B_3M

Test item: Radiation Emission

Applicant: ACROX

Product: 2.4GHz Dongle

Model No.: MQL

Test Distance: 3m

Ant. Polarization: Vertical

Temp.(C)/Hum.(%): 24(C) / 47 %

Power Rating: AC 120V/60Hz

Test Engineer: Ivan

Test Mode: TX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	209.4500	-16.26	36.56	20.30	43.50	-23.20	QP			P	
2	398.6000	-11.12	35.82	24.70	46.00	-21.30	QP			P	
3	480.0800	-9.21	30.21	21.00	46.00	-25.00	QP			P	
4	598.4200	-7.03	34.23	27.20	46.00	-18.80	QP			P	
5	788.5400	-2.09	28.69	26.60	46.00	-19.40	QP			P	
6	985.4500	-0.27	37.67	37.40	54.00	-16.60	QP			P	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

Frequency Range: 1-25GHz
Test Result: PASS
Measured Distance: 3m
Test By: Sance

Test Date : November 08, 2017
Temperature : 21 °C
Humidity : 55 %

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
Operation Mode: TX Mode (Low)										
2404	V	74.33	72.12	0.14	74.47	72.26	114.00	94.00	-39.53	-21.74
4808	V	47.06	36.32	6.33	53.39	42.65	74.00	54.00	-20.61	-11.35
7212	V	46.57	30.85	10.44	57.01	41.29	74.00	54.00	-16.99	-12.71

2404	H	73.12	68.36	0.14	73.26	68.50	114.00	94.00	-40.74	-25.50
4808	H	53.30	42.01	6.33	59.63	48.34	74.00	54.00	-14.37	-5.66
7212	H	46.23	31.20	10.44	56.67	41.64	74.00	54.00	-17.33	-12.36

Operation Mode: TX Mode (Mid)										
2441	V	75.31	71.76	0.24	75.55	72.00	114.00	94.00	-38.45	-22.00
4882	V	53.14	35.87	6.60	59.74	42.47	74.00	54.00	-14.26	-11.53
7323	V	46.06	31.49	10.55	56.61	42.04	74.00	54.00	-17.39	-11.96

2441	H	72.11	68.32	0.24	72.35	68.56	114.00	94.00	-41.65	-25.44
4882	H	53.61	42.37	6.60	60.21	48.97	74.00	54.00	-13.79	-5.03
7323	H	46.69	31.66	10.55	57.24	42.21	74.00	54.00	-16.76	-11.79

Operation Mode: TX Mode (High)										
2478	V	67.31	64.86	0.34	67.65	65.20	114.00	94.00	-46.35	-28.80
4956	V	51.98	39.81	6.88	58.86	46.69	74.00	54.00	-15.14	-7.31
7434	V	46.58	31.68	10.59	57.17	42.27	74.00	54.00	-16.83	-11.73

2478	H	66.33	62.01	0.34	66.67	62.35	114.00	94.00	-47.33	-31.65
4956	H	52.40	42.49	6.88	59.28	49.37	74.00	54.00	-14.72	-4.63
7434	H	46.19	31.00	10.59	56.78	41.59	74.00	54.00	-17.22	-12.41

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level + Factor
 - (3) Factor= Antenna Gain + Cable Loss – Amplifier Gain
 - (4) Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
 - (5) Measurement uncertainty : ± 3.7 dB.
 - (6) Horn antenna used for the emission over 1000MHz.

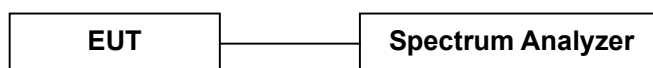
5. 20dB Bandwidth

5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)



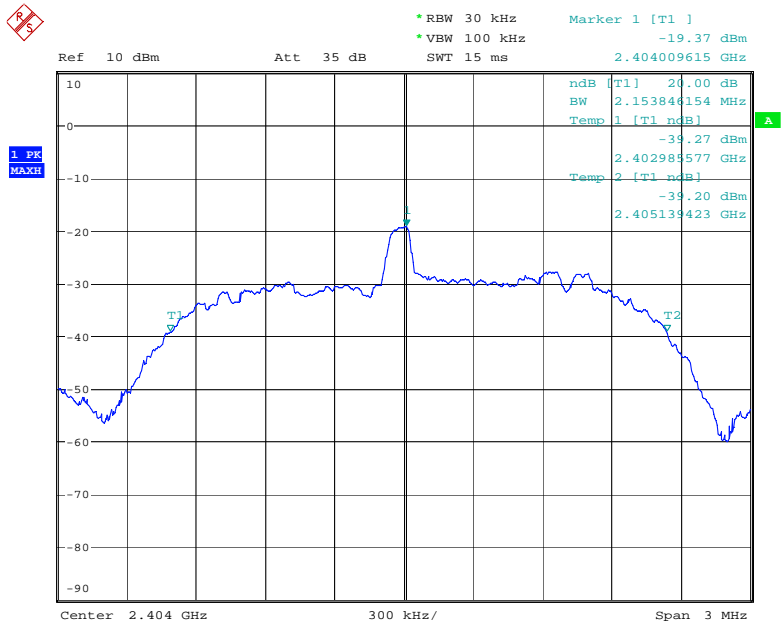
5.3 Measurement Results

Refer to attached data chart.

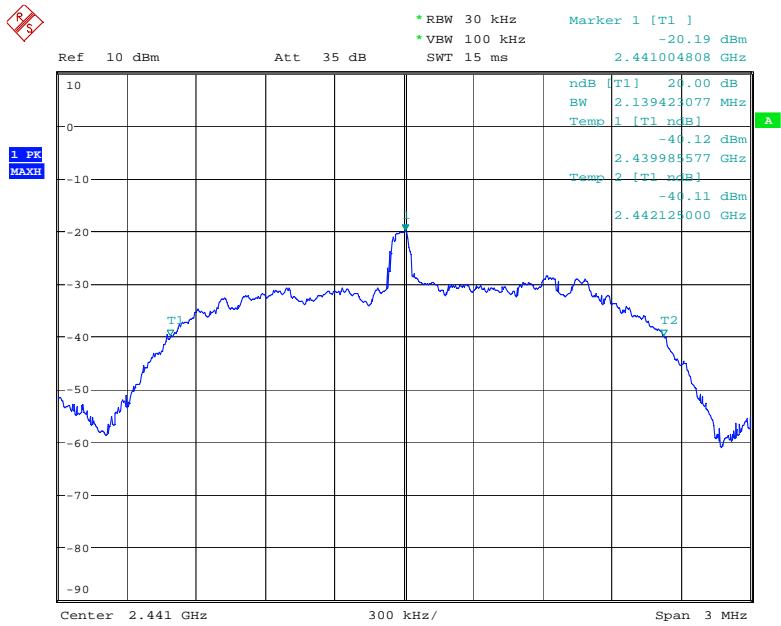
RBW:	100KHz	VBW:	300KHz
Spectrum Detector:	PK	Temperature :	22 °C
Test By:	Sance	Humidity :	54 %
Test Result:	PASS	Test Date :	November 08, 2017

Channel frequency (MHz)	20dB Down BW(kHz)
2404	2154
2441	2139
2478	2154

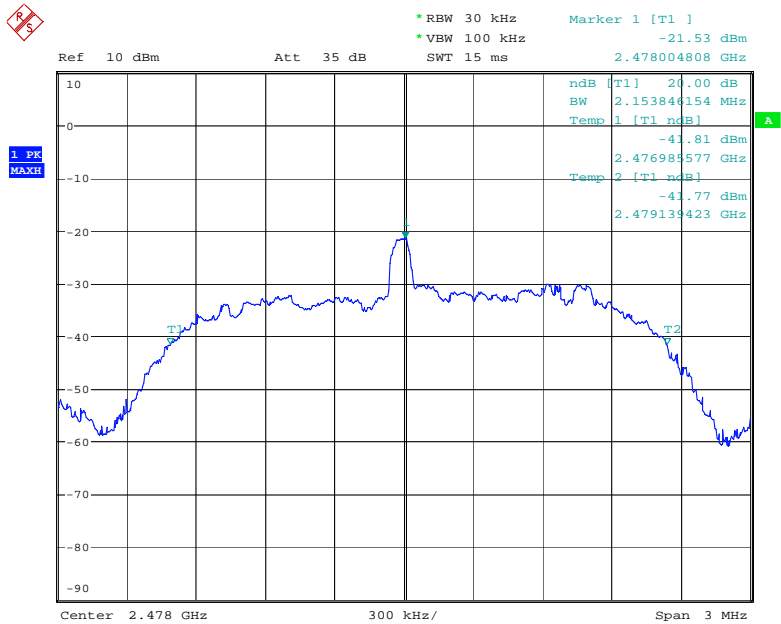
Lowest Channel



Middle Channel



Highest Channel



6. Band Edge

6.1 Measurement Procedure

Same as Radiated Emission Test.

6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

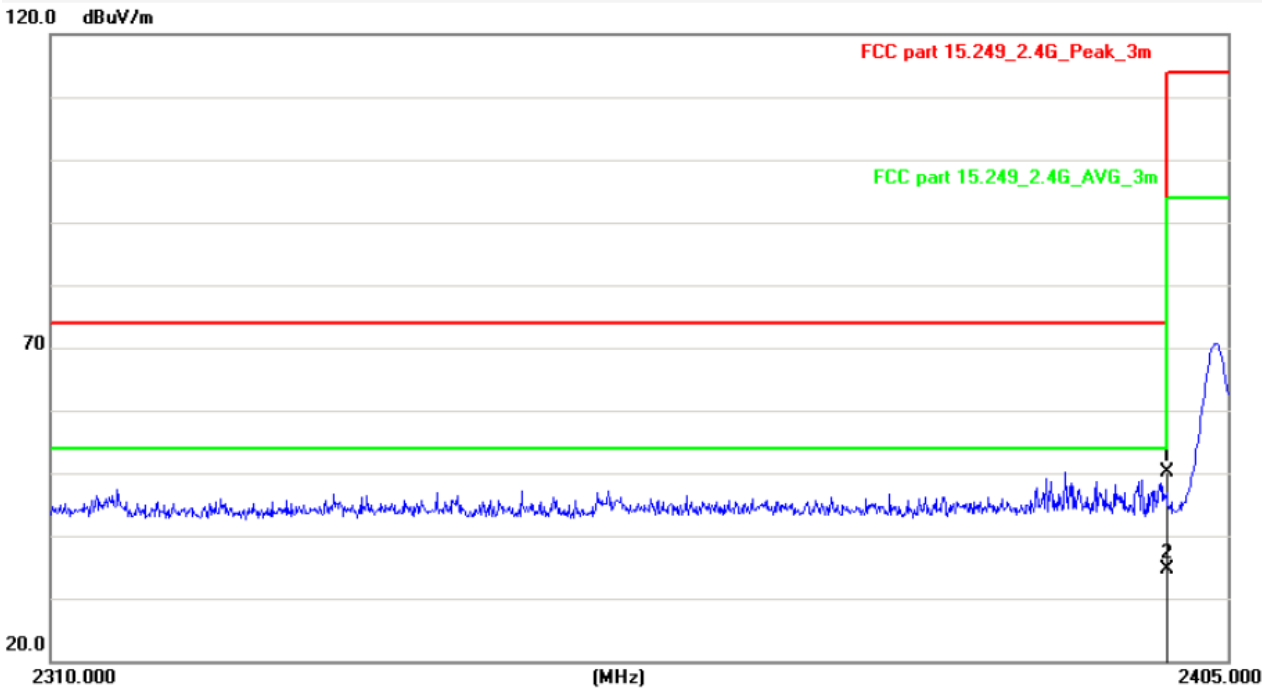
6.3 Measurement Results

Operation Mode:	TX Mode	Test Date :	November 08, 2017
Temperature :	21 °C	Humidity :	55 %
Test Result:	PASS	Test By:	Sance
Measured Distance:	3m		

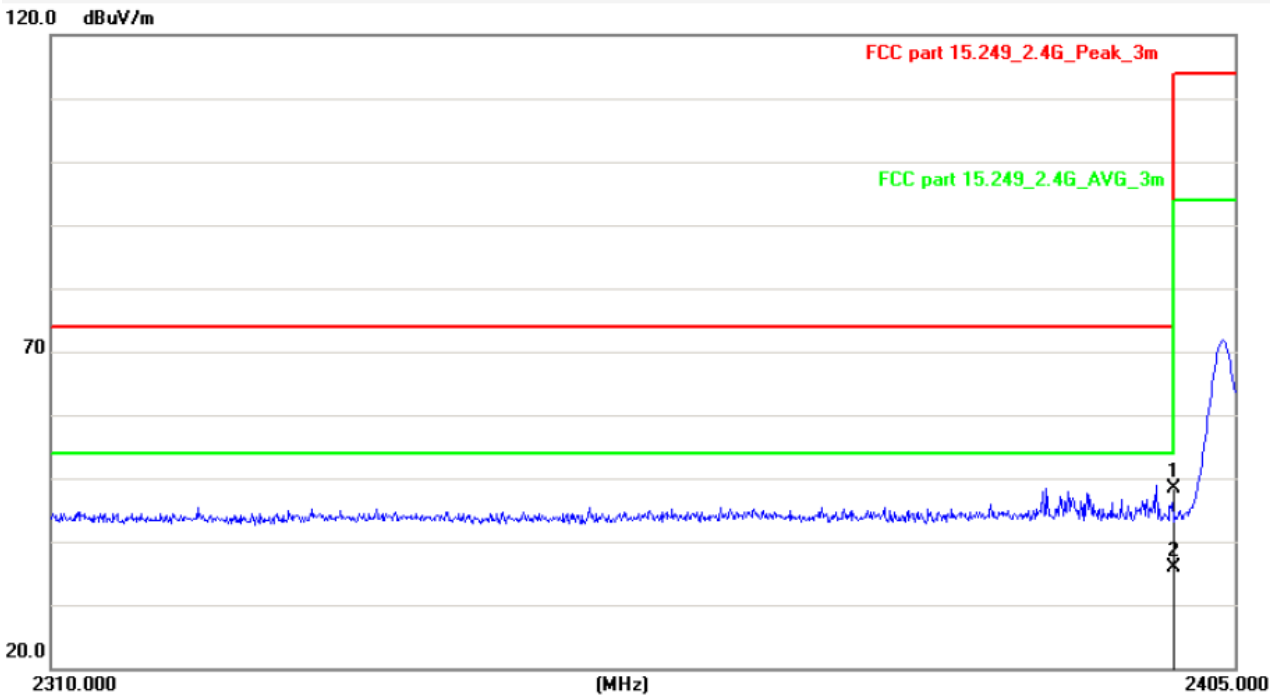
Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
2390.000	H	48.74	32.35	0.13	48.87	32.48	74.00	54.00	-25.13	-21.52
2390.000	V	47.71	33.14	0.13	47.84	33.27	74.00	54.00	-26.16	-20.73
2483.500	H	46.02	30.91	0.34	46.36	31.25	74.00	54.00	-27.64	-22.75
2483.500	V	45.76	30.98	0.34	46.10	31.32	74.00	54.00	-27.90	-22.68

Note: (1) Emission Level= Reading Level + Factor
(2) Factor= Antenna Gain + Cable Loss – Amplifier Gain
(3) Horn antenna used for the emission over 1000MHz.

Low channel
Horizontal

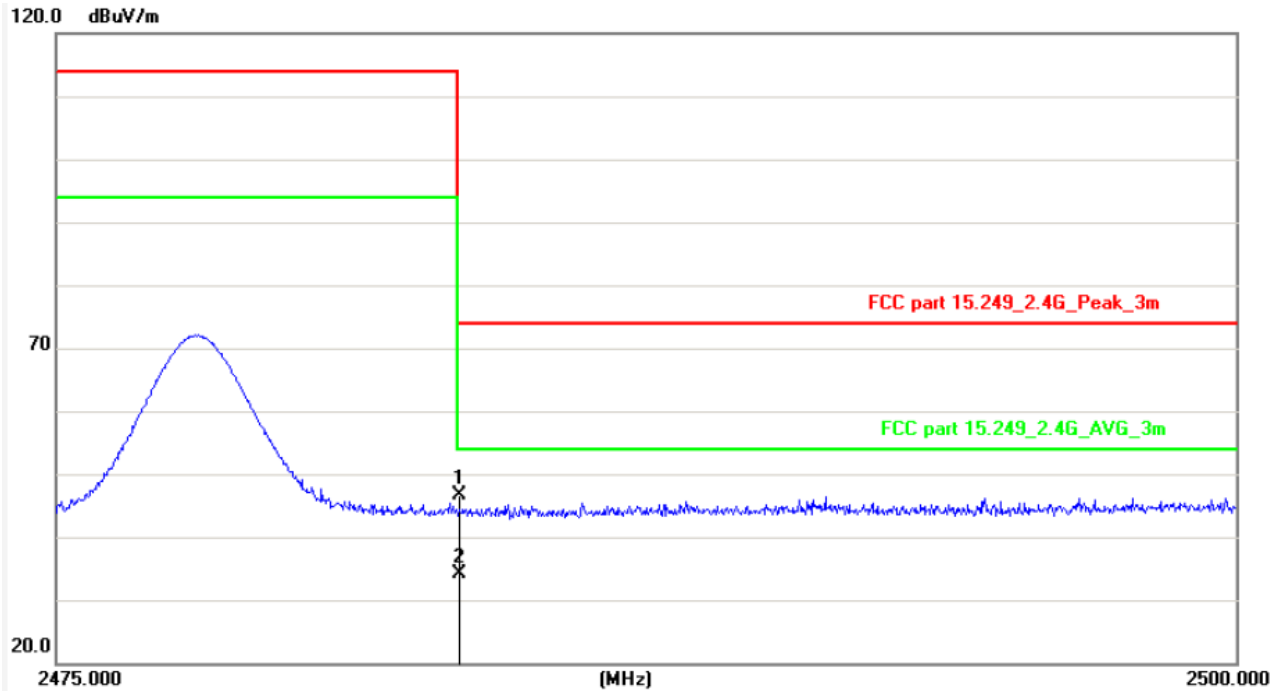


Vertical

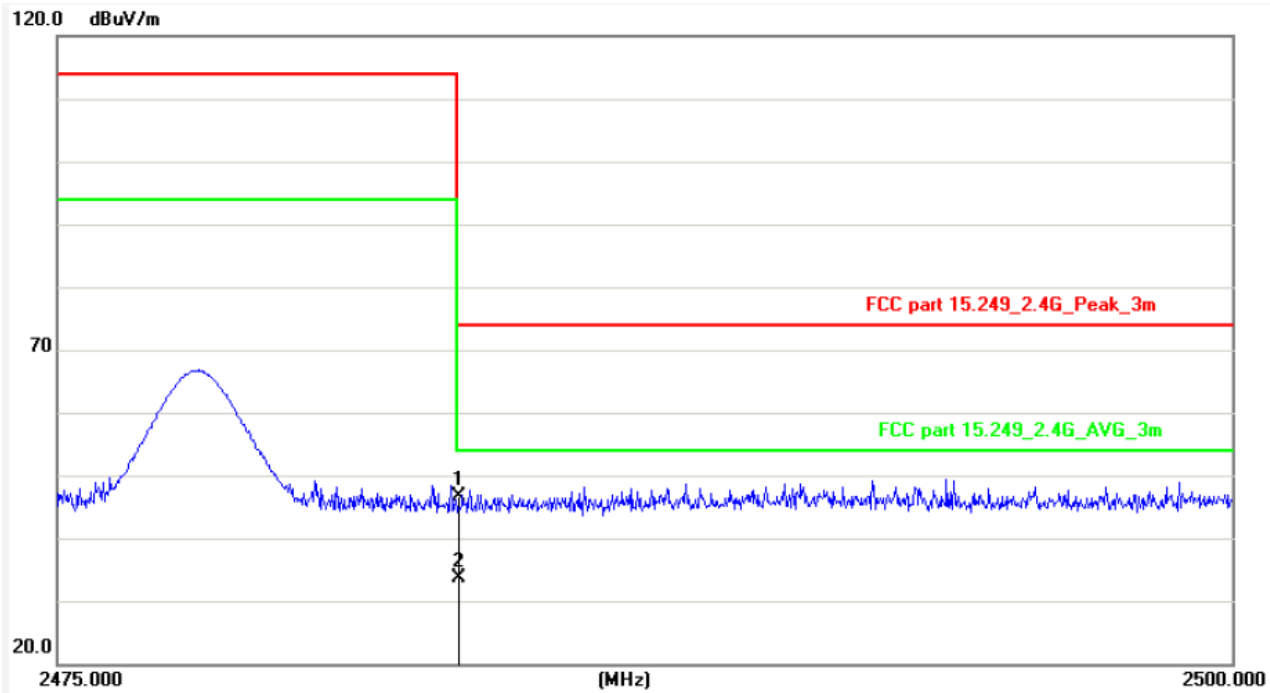


High channel

Horizontal



Vertical



7. Antenna requirement

7.1 Measurement Procedure

According to of FCC part 15C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is -0.5dBi. So, the antenna is consider meet the requirement.

8. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 15, 2017	Mar. 14, 2018
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2017	Apr. 25, 2018
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2017	Mar. 13, 2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 14, 2017	Mar. 13, 2018
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 15, 2017	Mar. 14, 2018
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2017	Apr. 24, 2018
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2017	Apr. 24, 2018
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	April. 06, 2017	April. 05, 2018
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 03, 2017	Nov. 02, 2018
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 14, 2017	Mar. 13, 2018
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

---End---