



FCC RF Test Report

APPLICANT : Lenovo (Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
BRAND NAME : Lenovo
MODEL NAME : QCNFA344A
FCC ID : O57-QCNFA344AH
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: Lenovo YOGA 920-13IKBXXXXXX, 80Y7XXXXXX, Lenovo YOGA 920-13IKB GlassXXXXXX, 80Y8XXXXXX, Lenovo YOGA 6 ProXXXXXX (The "X" in model name can be 0 to 9, A to Z, a to z, "-" or blank), Marketing Name: Lenovo YOGA 920) during test.

The product was received on Jun. 02, 2017 and testing was completed on Jul. 04, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager



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TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT 4

1 GENERAL DESCRIPTION 5

 1.1 Applicant 5

 1.2 Product Feature of Equipment Under Test..... 5

 1.3 Product Specification of Equipment Under Test..... 6

 1.4 Modification of EUT 7

 1.5 Testing Location 7

 1.6 Applicable Standards..... 7

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 8

 2.1 Carrier Frequency and Channel 8

 2.2 Test Mode..... 9

 2.3 Connection Diagram of Test System..... 10

 2.4 Support Unit used in test configuration and system 11

 2.5 EUT Operation Test Setup 11

3 TEST RESULT 12

 3.1 Peak and Average Output Power Measurement..... 12

 3.2 Radiated Band Edges and Spurious Emission Measurement 15

 3.3 AC Conducted Emission Measurement..... 19

 3.4 Antenna Requirements 23

4 LIST OF MEASURING EQUIPMENT 24

5 UNCERTAINTY OF EVALUATION 25

APPENDIX A. RADIATED SPURIOUS EMISSION

APPENDIX B. RADIATED SPURIOUS EMISSION PLOTS

APPENDIX C. DUTY CYCLE PLOTS

APPENDIX D. SETUP PHOTOGRAPHS



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	1
-	-	99% Bandwidth	-	Pass	1
3.1	15.247(b)	Peak and Average Output Power	≤ 30dBm	Pass	-
-	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	1
-	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	1
		Conducted Spurious Emission		Pass	1
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.43 dB at 2485.000 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.5 dB at 0.198 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Remark: All conducted test items were leverage from module RF report which can refer to Report No. "RF150107E06B".



1 General Description

1.1 Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd.

NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, 200131, CHINA

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand Name	Lenovo
Model Name	QCNFA344A
FCC ID	O57-QCNFA344AH
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 5GHz 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v3.0+EDR, Bluetooth v4.0 LE, Bluetooth v4.1 LE
EUT Stage	Identical Prototype

Host Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo YOGA 920-13IKBXXXXXX, 80Y7XXXXXX, Lenovo YOGA 920-13IKB GlassXXXXXX, 80Y8XXXXXX, Lenovo YOGA 6 ProXXXXXX (The "X" in model name can be 0 to 9, A to Z, a to z, "-" or blank)
Marketing Name	Lenovo YOGA 920
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, Shanghai, 200131 China
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay Hong Kong

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.3 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz		
Maximum (Peak) Output Power to antenna	802.11b : 24.73 dBm (0.2972 W) 802.11g : 26.93 dBm (0.4932 W) 802.11n HT20 : 26.55 dBm (0.4519 W) 802.11n HT40 : 26.43 dBm (0.4395 W) 802.11ac VHT20 : 26.73 dBm (0.4710 W) 802.11ac VHT40 : 26.48 dBm (0.4446 W)		
Antenna Type / Gain	Chain Port 1: PIFA Antenna with gain 0.61 dBi Chain Port 2: PIFA Antenna with gain 0.56 dBi		
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function for Transmitter		Chain Port 1	Chain Port 2
	802.11 b/g/n/ac SISO	V	V
	802.11 b/g/n/ac MIMO	V	V

Note:

1. MIMO Chain Port 1+2 is a calculated result from sum of the power MIMO Chain Port 1 and MIMO Chain Port 2.
2. For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing has assessed only 802.11ac VHT20 / VHT40 by referring to their maximum conducted power.



1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Test Site	Sporton International (KunShan) INC.			
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
Test Site No.	Sporton Site No.			FCC Registration No.
	TH01-KS	CO01-KS	03CH03-KS	306251

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

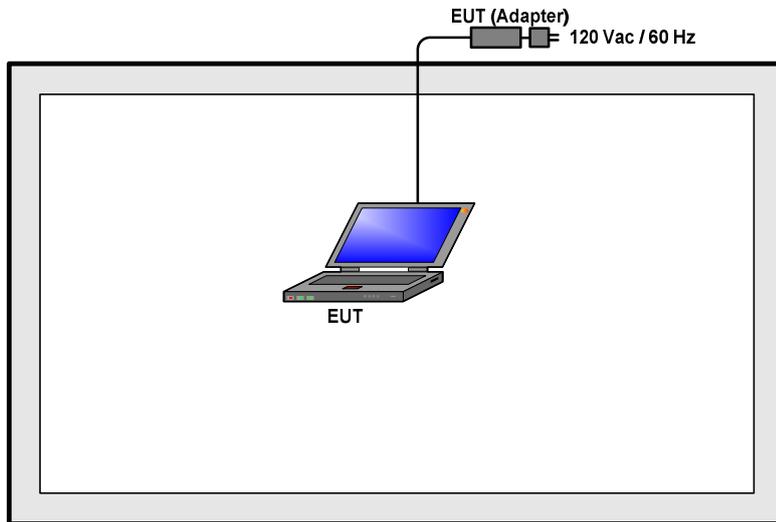
MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0

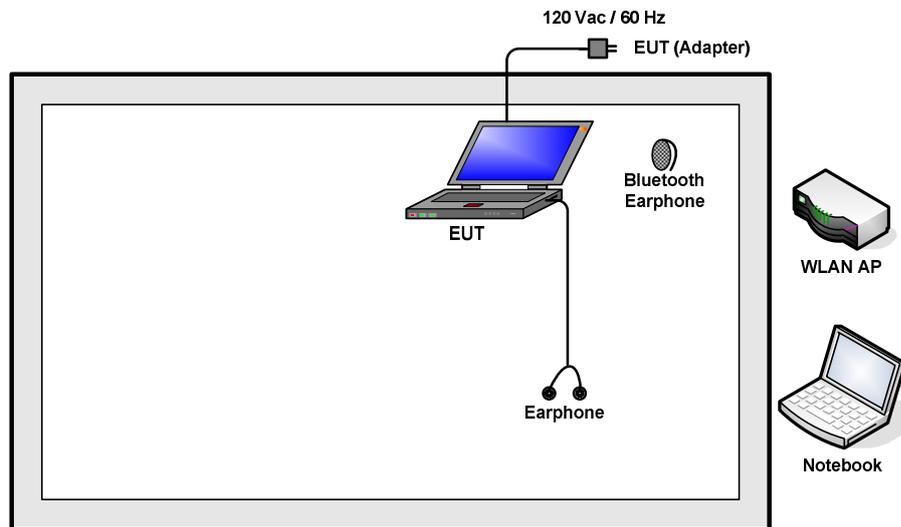
Test Cases	
AC Conducted Emission	<p>Mode 1 :Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 1 + USB Link with U Disk USB Port + Paly H Plane + Adapter 1 With Type C 1 + USB Link with Type C 2 for Sample 1</p> <p>Mode 2 : Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 1 + USB Link with U Disk USB Port + MPEG4/Color Bar + Adapter 1 With Type C 1 + USB Link with Type C 2 for Sample 1</p> <p>Mode 3 : Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 2 + USB Link with U Disk USB Port + Adapter 2 With Type C 1 + USB Link with Type C 2 for Sample 2</p> <p>Mode 4 : Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 3 + USB Link with U Disk USB Port + Adapter 3 With Type C 1 + USB Link with Type C 2 for Sample 3</p> <p>Mode 5 : Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 4 + USB Link with U Disk USB Port + Adapter 4 With Type C 1 + USB Link with Type C 2 for Sample 4</p> <p>Mode 6 : Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 5 + USB Link with U Disk USB Port + Adapter 1 With Type C 1 + USB Link with Type C 2 for Sample 5</p>
Remark:	
<ol style="list-style-type: none"> The worst case of conducted emission is mode 3; only the test data of it was reported. Type C 1 is USB charging port, Type C 2 is USB link port. 	

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

3 Test Result

3.1 Peak and Average Output Power Measurement

3.1.1 Limit of Peak and Average Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

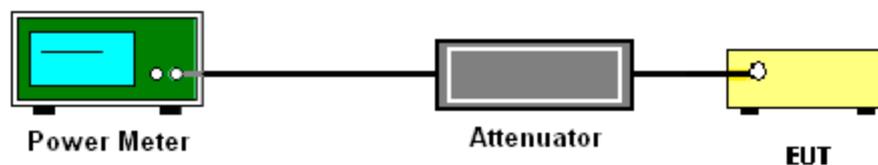
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	21.47	21.04	24.27	30.00		0.61		24.88		36.00	Pass	
11b	1Mbps	2	6	2437	21.85	21.58	24.73	30.00		0.61		25.34		36.00	Pass	
11b	1Mbps	2	11	2462	20.87	21.02	23.96	30.00		0.61		24.57		36.00	Pass	
11g	6Mbps	2	1	2412	22.75	22.24	25.51	30.00		0.61		26.12		36.00	Pass	
11g	6Mbps	2	6	2437	24.10	23.74	26.93	30.00		0.61		27.54		36.00	Pass	
11g	6Mbps	2	11	2462	22.05	22.42	25.25	30.00		0.61		25.86		36.00	Pass	
HT20	MCS0	2	1	2412	21.53	20.56	24.08	30.00		0.61		24.69		36.00	Pass	
HT20	MCS0	2	6	2437	23.62	23.45	26.55	30.00		0.61		27.16		36.00	Pass	
HT20	MCS0	2	11	2462	21.11	21.23	24.18	30.00		0.61		24.79		36.00	Pass	
HT40	MCS0	2	3	2422	18.16	17.37	20.79	30.00		0.61		21.40		36.00	Pass	
HT40	MCS0	2	4	2427	22.61	21.76	25.22	30.00		0.61		25.83		37.00	Pass	
HT40	MCS0	2	6	2437	23.57	23.27	26.43	30.00		0.61		27.04		38.00	Pass	
HT40	MCS0	2	8	2447	22.55	22.37	25.47	30.00		0.61		26.08		39.00	Pass	
HT40	MCS0	2	9	2452	16.09	15.96	19.04	30.00		0.61		19.65		36.00	Pass	
VHT20	MCS0	2	1	2412	21.57	21.47	24.53	30.00		0.61		25.14		36.00	Pass	
VHT20	MCS0	2	6	2437	23.71	23.72	26.73	30.00		0.61		27.34		36.00	Pass	
VHT20	MCS0	2	11	2462	21.16	21.33	24.26	30.00		0.61		24.87		36.00	Pass	
VHT40	MCS0	2	3	2422	18.24	17.65	20.97	30.00		0.61		21.58		36.00	Pass	
VHT40	MCS0	2	4	2427	22.78	21.82	25.34	30.00		0.61		25.95		37.00	Pass	
VHT40	MCS0	2	6	2437	23.62	23.32	26.48	30.00		0.61		27.09		38.00	Pass	
VHT40	MCS0	2	8	2447	22.86	22.40	25.65	30.00		0.61		26.26		39.00	Pass	
VHT40	MCS0	2	9	2452	16.17	16.04	19.12	30.00		0.61		19.73		40.00	Pass	



3.1.6 Test Result of Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	2	1	2412	0.00	0.00	19.04	18.74	21.90
11b	1Mbps	2	6	2437	0.00	0.00	19.59	19.36	22.49
11b	1Mbps	2	11	2462	0.00	0.00	18.58	18.72	21.66
11g	6Mbps	2	1	2412	0.24	0.22	16.72	16.21	19.48
11g	6Mbps	2	6	2437	0.24	0.22	18.54	18.41	21.49
11g	6Mbps	2	11	2462	0.24	0.22	16.09	16.28	19.20
HT20	MCS0	2	1	2412	0.24	0.24	14.97	14.32	17.67
HT20	MCS0	2	6	2437	0.24	0.24	17.80	17.30	20.57
HT20	MCS0	2	11	2462	0.24	0.24	14.81	14.55	17.69
HT40	MCS0	2	3	2422	0.50	0.47	11.20	10.29	13.78
HT40	MCS0	2	4	2427	0.50	0.47	15.42	14.79	18.13
HT40	MCS0	2	6	2437	0.50	0.47	17.47	17.08	20.29
HT40	MCS0	2	8	2447	0.50	0.47	15.63	15.38	18.52
HT40	MCS0	2	9	2452	0.50	0.47	9.01	8.80	11.92
VHT20	MCS0	2	1	2412	0.24	0.24	15.23	15.02	18.13
VHT20	MCS0	2	6	2437	0.24	0.24	18.09	17.75	20.93
VHT20	MCS0	2	11	2462	0.24	0.24	15.10	14.80	17.96
VHT40	MCS0	2	3	2422	0.47	0.47	11.23	10.38	13.84
VHT40	MCS0	2	4	2427	0.47	0.47	15.65	14.86	18.28
VHT40	MCS0	2	6	2437	0.47	0.47	17.49	17.15	20.33
VHT40	MCS0	2	8	2447	0.47	0.47	15.88	15.42	18.67
VHT40	MCS0	2	9	2452	0.47	0.47	9.03	8.89	11.97



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

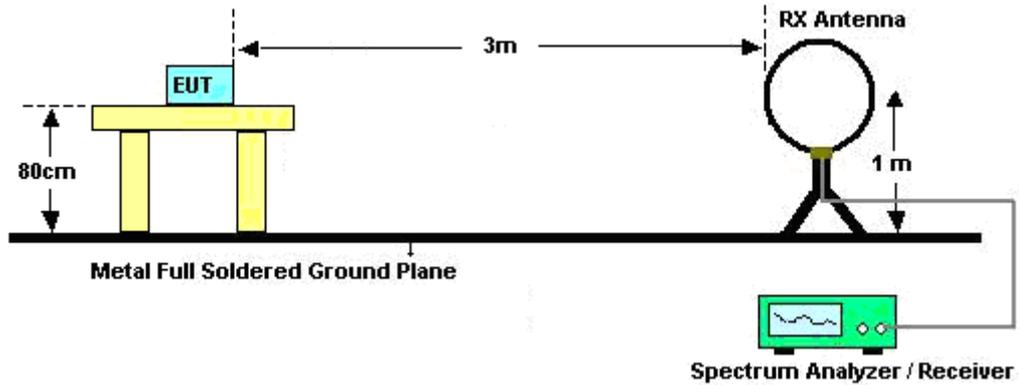


3.2.3 Test Procedures

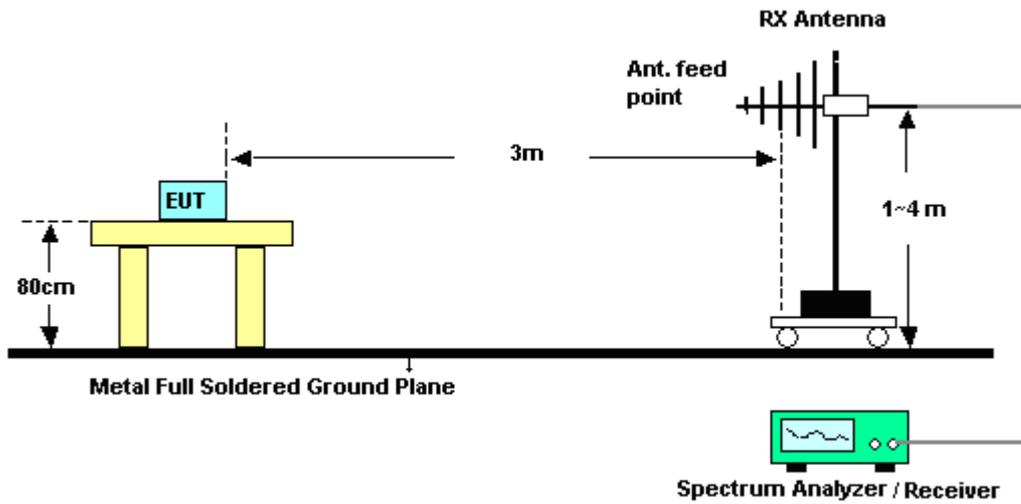
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

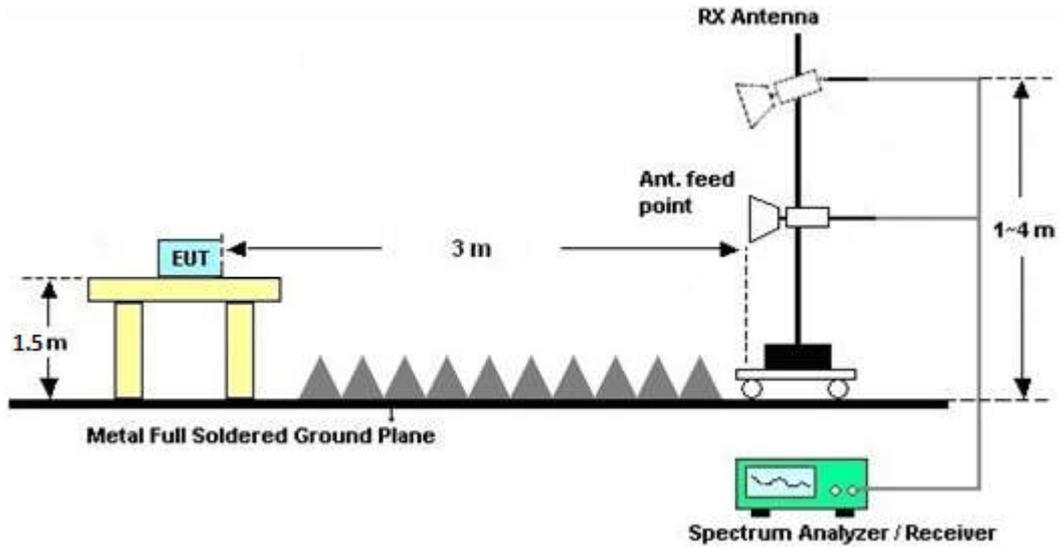
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.



3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

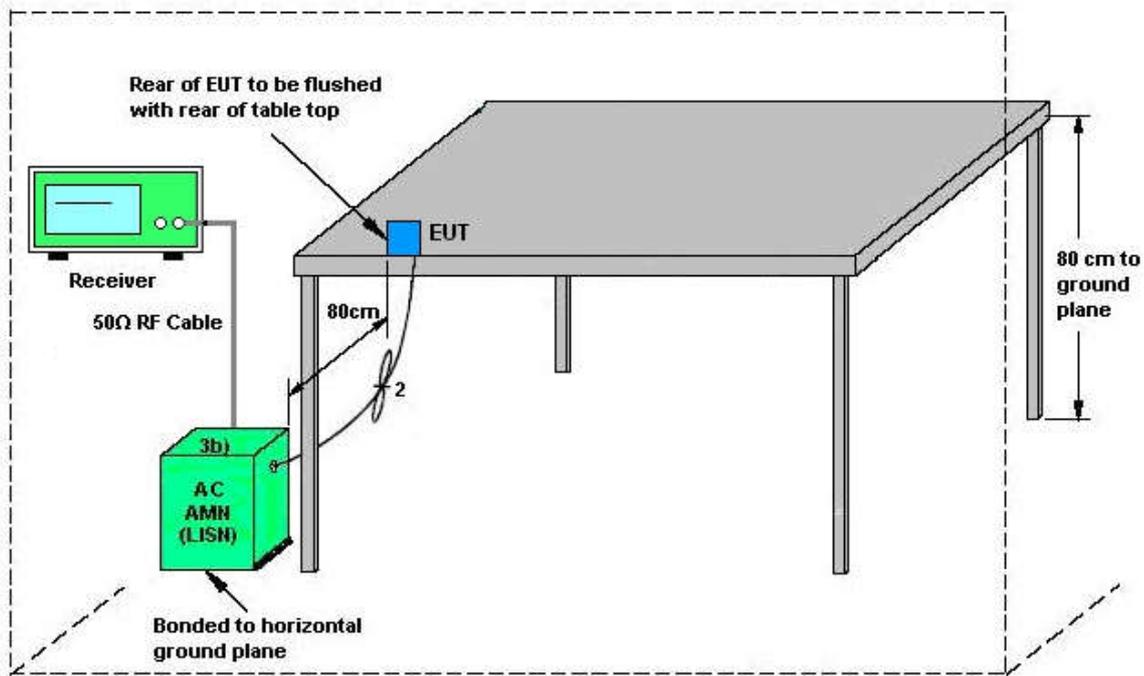
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.3.4 Test Setup

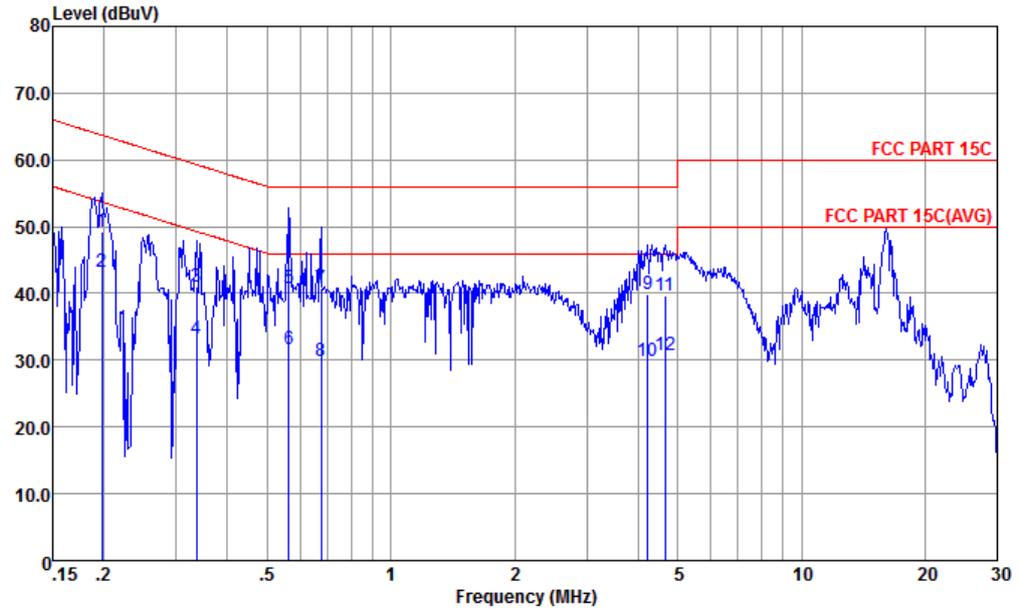


AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network



3.3.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 2 + USB Link with U Disk USB Port + Adapter 2 With Type C 1 + USB Link with Type C 2 for Sample 2		

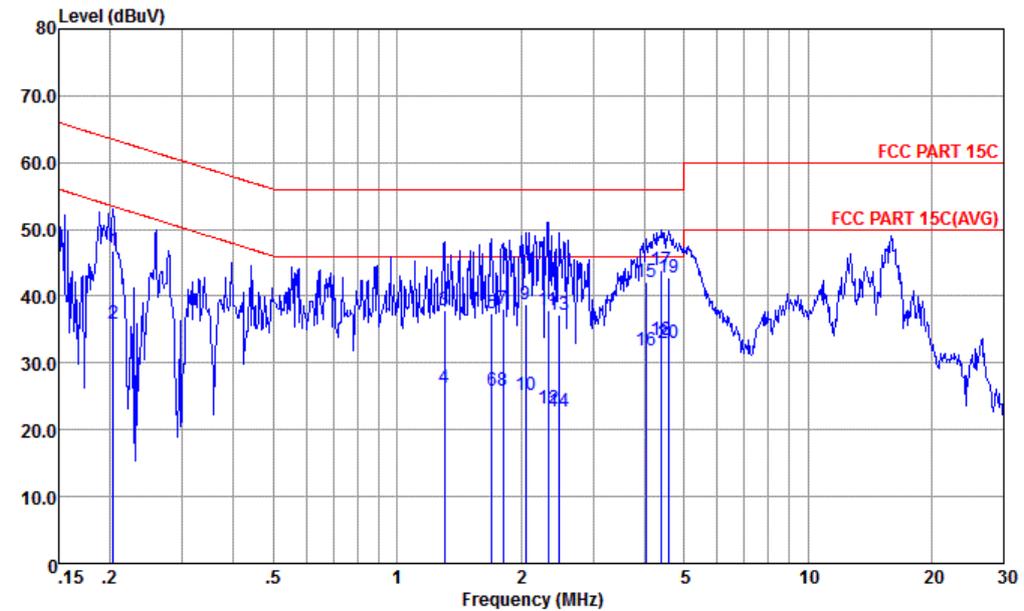


Site : CO01-KS
 Condition : FCC PART 15C LISN-L-161017-060103 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.198	49.21	-14.50	63.71	38.60	0.28	10.33	QP
2 *	0.198	43.21	-10.50	53.71	32.60	0.28	10.33	Average
3	0.336	41.10	-18.21	59.31	30.60	0.27	10.23	QP
4	0.336	33.10	-16.21	49.31	22.60	0.27	10.23	Average
5	0.564	40.75	-15.25	56.00	30.31	0.26	10.18	QP
6	0.564	31.75	-14.25	46.00	21.31	0.26	10.18	Average
7	0.675	40.73	-15.27	56.00	30.30	0.25	10.18	QP
8	0.675	29.93	-16.07	46.00	19.50	0.25	10.18	Average
9	4.224	39.95	-16.05	56.00	29.50	0.21	10.24	QP
10	4.224	29.75	-16.25	46.00	19.30	0.21	10.24	Average
11	4.647	39.65	-16.35	56.00	29.20	0.21	10.24	QP
12	4.647	30.75	-15.25	46.00	20.30	0.21	10.24	Average



Test Mode :	Mode 3	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN (2.4G) Link + Camera + Earphone + Battery 2 + USB Link with U Disk USB Port + Adapter 2 With Type C 1 + USB Link with Type C 2 for Sample 2		



Site : CO01-KS
 Condition : FCC PART 15C LISN-N-161017-060103 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.204	46.86	-16.59	63.45	36.20	0.33	10.33	QP
2	0.204	35.96	-17.49	53.45	25.30	0.33	10.33	Average
3	1.303	37.79	-18.21	56.00	27.20	0.40	10.19	QP
4	1.303	26.19	-19.81	46.00	15.60	0.40	10.19	Average
5	1.698	37.50	-18.50	56.00	26.90	0.41	10.19	QP
6	1.698	25.90	-20.10	46.00	15.30	0.41	10.19	Average
7	1.810	38.20	-17.80	56.00	27.60	0.41	10.19	QP
8	1.810	25.80	-20.20	46.00	15.20	0.41	10.19	Average
9	2.055	38.80	-17.20	56.00	28.20	0.41	10.19	QP
10	2.055	25.20	-20.80	46.00	14.60	0.41	10.19	Average
11	2.334	37.80	-18.20	56.00	27.20	0.40	10.20	QP
12	2.334	23.20	-22.80	46.00	12.60	0.40	10.20	Average
13	2.474	37.21	-18.79	56.00	26.61	0.40	10.20	QP
14	2.474	22.81	-23.19	46.00	12.21	0.40	10.20	Average
15	4.027	42.13	-13.87	56.00	31.50	0.39	10.24	QP
16	4.027	31.93	-14.07	46.00	21.30	0.39	10.24	Average
17 *	4.407	43.83	-12.17	56.00	33.21	0.38	10.24	QP
18	4.407	33.53	-12.47	46.00	22.91	0.38	10.24	Average
19	4.598	42.83	-13.17	56.00	32.21	0.38	10.24	QP
20	4.598	32.93	-13.07	46.00	22.31	0.38	10.24	Average



3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the Antenna exceeds 6 dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
24 GHz	0.56	0.61	0.61	3.60	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Jun. 09, 2017	Jan. 18, 2018	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Jun. 09, 2017	Jan. 18, 2018	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Jun. 15, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Jun. 15, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Jun. 15, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Jun. 15, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Jun. 15, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Jun. 15, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Jun. 15, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
High Gain Amplifier	MITEQ	AMF-7D-001018 00-30-10P	2025788	1GHz~18GHz	Apr. 18, 2017	Jun. 15, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Jun. 15, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 13, 2016	Jun. 15, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 15, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 15, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 15, 2017	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Apr. 20, 2017	Jul. 04, 2017	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Jul. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Jul. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Jul. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7dB
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Appendix A. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2388.26	57.34	-16.66	74	62.49	25.8	5.47	36.42	179	140	P	H
		2387.87	45.61	-8.39	54	50.76	25.8	5.47	36.42	179	140	A	H
	*	2412	112.36	-	-	117.49	25.83	5.47	36.43	179	140	P	H
	*	2412	109.12	-	-	114.25	25.83	5.47	36.43	179	140	A	H
		2387.74	54.73	-19.27	74	59.88	25.8	5.47	36.42	390	69	P	V
		2388.26	43.79	-10.21	54	48.94	25.8	5.47	36.42	390	69	A	V
	*	2414	108.51	-	-	113.64	25.83	5.47	36.43	390	69	P	V
	*	2410	103.76	-	-	108.89	25.83	5.47	36.43	390	69	A	V
802.11b CH 06 2437MHz		2389.95	53.47	-20.53	74	58.62	25.8	5.47	36.42	100	131	P	H
		2389.56	42.91	-11.09	54	48.06	25.8	5.47	36.42	100	131	A	H
	*	2438	113.17	-	-	118.24	25.89	5.49	36.45	100	131	P	H
	*	2438	109.41	-	-	114.48	25.89	5.49	36.45	100	131	A	H
		2485.12	55.83	-18.17	74	60.85	25.94	5.51	36.47	100	131	P	H
		2484.94	44.83	-9.17	54	49.85	25.94	5.51	36.47	100	131	A	H
		2388.39	51.83	-22.17	74	56.98	25.8	5.47	36.42	383	51	P	V
		2389.3	41.48	-12.52	54	46.63	25.8	5.47	36.42	383	51	A	V
	*	2436	110.36	-	-	115.46	25.86	5.48	36.44	383	51	P	V
	*	2436	107	-	-	112.1	25.86	5.48	36.44	383	51	A	V
		2484.94	53.88	-20.12	74	58.9	25.94	5.51	36.47	383	51	P	V
	2483.98	43.07	-10.93	54	48.09	25.94	5.51	36.47	383	51	A	V	



802.11b CH 11 2462MHz	*	2462	112.29	-	-	117.34	25.91	5.5	36.46	100	145	P	H
	*	2462	108.79	-	-	113.84	25.91	5.5	36.46	100	145	A	H
		2485.6	58.95	-15.05	74	63.97	25.94	5.51	36.47	100	145	P	H
	!	2485.48	48.03	-5.97	54	53.05	25.94	5.51	36.47	100	145	A	H
	*	2462	108.55	-	-	113.6	25.91	5.5	36.46	307	74	P	V
	*	2460	104.72	-	-	109.77	25.91	5.5	36.46	307	74	A	V
		2494.18	56.28	-17.72	74	61.27	25.97	5.52	36.48	307	74	P	V
		2490.7	45.55	-8.45	54	50.54	25.97	5.52	36.48	307	74	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	46.04	-27.96	74	44.15	30.68	7.72	36.51	300	0	P	H
CH 01		4824	48.47	-25.53	74	46.58	30.68	7.72	36.51	300	0	P	V
2412MHz													
802.11b		4872	46.11	-27.89	74	44.03	30.85	7.76	36.53	300	360	P	H
CH 06		7311	47.44	-26.56	74	39.12	34.81	9.76	36.25	300	360	P	H
2437MHz		4872	48.45	-25.55	74	46.37	30.85	7.76	36.53	400	360	P	V
		7311	48.86	-25.14	74	40.54	34.81	9.76	36.25	400	360	P	V
802.11b		4926	42.54	-31.46	74	40.28	31.02	7.8	36.56	300	360	P	H
CH 11		7386	46.77	-27.23	74	38.16	35.03	9.86	36.28	300	360	P	H
2462MHz		4924	43.64	-30.36	74	41.38	31.02	7.8	36.56	300	360	P	V
		7386	47.25	-26.75	74	38.64	35.03	9.86	36.28	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.69	58.48	-15.52	74	63.63	25.8	5.47	36.42	100	36	P	H
	!	2389.95	48.07	-5.93	54	53.22	25.8	5.47	36.42	100	36	A	H
	*	2416	110.21	-	-	115.34	25.83	5.47	36.43	100	36	P	H
	*	2414	102.42	-	-	107.55	25.83	5.47	36.43	100	36	A	H
		2389.56	55.17	-18.83	74	60.32	25.8	5.47	36.42	400	119	P	V
		2389.04	45.38	-8.62	54	50.53	25.8	5.47	36.42	400	119	A	V
	*	2410	107.29	-	-	112.42	25.83	5.47	36.43	400	119	P	V
	*	2414	99.55	-	-	104.68	25.83	5.47	36.43	400	119	A	V
802.11g CH 06 2437MHz		2389.69	53.49	-20.51	74	58.64	25.8	5.47	36.42	359	60	P	H
		2389.43	43.87	-10.13	54	49.02	25.8	5.47	36.42	359	60	A	H
	*	2440	111.91	-	-	116.98	25.89	5.49	36.45	359	60	P	H
	*	2440	104.14	-	-	109.21	25.89	5.49	36.45	359	60	A	H
		2484.52	55.85	-18.15	74	60.87	25.94	5.51	36.47	359	60	P	H
		2484.82	45.71	-8.29	54	50.73	25.94	5.51	36.47	359	60	A	H
		2388.78	54.49	-19.51	74	59.64	25.8	5.47	36.42	400	105	P	V
		2389.43	43.96	-10.04	54	49.11	25.8	5.47	36.42	400	105	A	V
	*	2436	110.76	-	-	115.86	25.86	5.48	36.44	400	105	P	V
	*	2436	103.36	-	-	108.46	25.86	5.48	36.44	400	105	A	V
		2484.88	54.81	-19.19	74	59.83	25.94	5.51	36.47	400	105	P	V
		2484.82	45.3	-8.7	54	50.32	25.94	5.51	36.47	400	105	A	V



802.11g CH 11 2462MHz	*	2460	110.56	-	-	115.61	25.91	5.5	36.46	100	37	P	H
	*	2464	102.33	-	-	107.38	25.91	5.5	36.46	100	37	A	H
		2483.98	59	-15	74	64.02	25.94	5.51	36.47	100	37	P	H
	!	2483.51	48.82	-5.18	54	53.84	25.94	5.51	36.47	100	37	A	H
	*	2460	107.37	-	-	112.42	25.91	5.5	36.46	358	243	P	V
	*	2460	99.65	-	-	104.7	25.91	5.5	36.46	358	243	A	V
		2483.5	56.93	-17.07	74	61.95	25.94	5.51	36.47	358	243	P	V
		2483.62	46.2	-7.8	54	51.22	25.94	5.51	36.47	358	243	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	46.26	-27.74	74	44.37	30.68	7.72	36.51	300	360	P	H
		4824	44.21	-29.79	74	42.32	30.68	7.72	36.51	300	360	P	V
802.11g CH 06 2437MHz		4872	47.92	-26.08	74	45.84	30.85	7.76	36.53	300	360	P	H
		7311	47.33	-26.67	74	39.01	34.81	9.76	36.25	300	360	P	H
		4872	44.38	-29.62	74	42.3	30.85	7.76	36.53	300	360	P	V
		7311	47.9	-26.1	74	39.58	34.81	9.76	36.25	300	360	P	V
802.11g CH 11 2462MHz		4926	44.01	-29.99	74	41.75	31.02	7.8	36.56	300	360	P	H
		7386	47.3	-26.7	74	38.69	35.03	9.86	36.28	300	360	P	H
		4926	42.82	-31.18	74	40.56	31.02	7.8	36.56	300	360	P	V
		7386	47.9	-26.1	74	39.29	35.03	9.86	36.28	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 01 2412MHz		2389.56	58.9	-15.1	74	64.05	25.8	5.47	36.42	251	15	P	H
	!	2389.95	48.81	-5.19	54	53.96	25.8	5.47	36.42	251	15	A	H
	*	2410	108.82	-	-	113.95	25.83	5.47	36.43	251	15	P	H
	*	2410	100.75	-	-	105.88	25.83	5.47	36.43	251	15	A	H
		2389.95	55.05	-18.95	74	60.2	25.8	5.47	36.42	333	243	P	V
		2389.69	45.13	-8.87	54	50.28	25.8	5.47	36.42	333	243	A	V
	*	2412	105.5	-	-	110.63	25.83	5.47	36.43	333	243	P	V
	*	2410	97.46	-	-	102.59	25.83	5.47	36.43	333	243	A	V
802.11ac VHT20 CH 06 2437MHz		2387.61	54.97	-19.03	74	60.12	25.8	5.47	36.42	212	25	P	H
		2389.3	44.97	-9.03	54	50.12	25.8	5.47	36.42	212	25	A	H
	*	2434	111.96	-	-	117.06	25.86	5.48	36.44	212	25	P	H
	*	2434	103.82	-	-	108.92	25.86	5.48	36.44	212	25	A	H
		2484.28	56.86	-17.14	74	61.88	25.94	5.51	36.47	212	25	P	H
		2485.12	46.54	-7.46	54	51.56	25.94	5.51	36.47	212	25	A	H
		2389.3	53.74	-20.26	74	58.89	25.8	5.47	36.42	374	109	P	V
		2389.17	43.9	-10.1	54	49.05	25.8	5.47	36.42	374	109	A	V
	*	2436	110.54	-	-	115.64	25.86	5.48	36.44	374	109	P	V
	*	2434	102.49	-	-	107.59	25.86	5.48	36.44	374	109	A	V
	2484.64	55.12	-18.88	74	60.14	25.94	5.51	36.47	374	109	P	V	
	2485.06	44.91	-9.09	54	49.93	25.94	5.51	36.47	374	109	A	V	



802.11ac VHT20 CH 11 2462MHz	*	2464	108.54	-	-	113.59	25.91	5.5	36.46	100	33	P	H
	*	2464	100.47	-	-	105.52	25.91	5.5	36.46	100	33	A	H
		2485.18	57.17	-16.83	74	62.19	25.94	5.51	36.47	100	33	P	H
		2483.5	47.53	-6.47	54	52.55	25.94	5.51	36.47	100	33	A	H
	*	2460	105.06	-	-	110.11	25.91	5.5	36.46	325	117	P	V
	*	2460	96.71	-	-	101.76	25.91	5.5	36.46	325	117	A	V
		2484.64	54.66	-19.34	74	59.68	25.94	5.51	36.47	325	117	P	V
		2483.68	45.23	-8.77	54	50.25	25.94	5.51	36.47	325	117	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 01 2412MHz		4824	44.16	-29.84	74	42.27	30.68	7.72	36.51	300	360	P	H
		4824	43.24	-30.76	74	41.35	30.68	7.72	36.51	300	360	P	V
802.11ac VHT20 CH 06 2437MHz		4872	45.45	-28.55	74	43.37	30.85	7.76	36.53	300	360	P	H
		7311	47.19	-26.81	74	38.87	34.81	9.76	36.25	300	360	P	H
		4872	42.87	-31.13	74	40.79	30.85	7.76	36.53	300	360	P	V
		7311	47.02	-26.98	74	38.7	34.81	9.76	36.25	300	360	P	V
802.11ac VHT20 CH 11 2462MHz		4926	43.31	-30.69	74	41.05	31.02	7.8	36.56	300	360	P	H
		7386	47.49	-26.51	74	38.88	35.03	9.86	36.28	300	360	P	H
		4924	42.72	-31.28	74	40.46	31.02	7.8	36.56	300	360	P	V
		7386	47.58	-26.42	74	38.97	35.03	9.86	36.28	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 03 2422MHz		2387.22	63.44	-10.56	74	68.59	25.8	5.47	36.42	298	304	P	H
		2386.7	47.7	-6.3	54	52.85	25.8	5.47	36.42	298	304	A	H
	*	2428	100.58	-	-	105.68	25.86	5.48	36.44	298	304	P	H
	*	2428	92.91	-	-	98.01	25.86	5.48	36.44	298	304	A	H
		2487.1	59.62	-14.38	74	64.64	25.94	5.51	36.47	298	304	P	H
		2483.68	45.84	-8.16	54	50.86	25.94	5.51	36.47	298	304	A	H
		2386.44	62.58	-11.42	74	67.73	25.8	5.47	36.42	400	271	P	V
		2388.13	47.14	-6.86	54	52.29	25.8	5.47	36.42	400	271	A	V
	*	2428	99.85	-	-	104.95	25.86	5.48	36.44	400	271	P	V
	*	2426	91.85	-	-	96.95	25.86	5.48	36.44	400	271	A	V
		2489.14	58.27	-15.73	74	63.26	25.97	5.52	36.48	400	271	P	V
	2483.56	44.82	-9.18	54	49.84	25.94	5.51	36.47	400	271	A	V	
802.11ac VHT40 CH 04 2427MHz		2386.18	67.57	-6.43	74	72.72	25.8	5.47	36.42	100	152	P	H
	!	2389.82	52.58	-1.42	54	57.73	25.8	5.47	36.42	100	152	A	H
	*	2430	105.45	-	-	110.55	25.86	5.48	36.44	100	152	P	H
	*	2432	97.65	-	-	102.75	25.86	5.48	36.44	100	152	A	H
		2491.3	64.96	-9.04	74	69.95	25.97	5.52	36.48	100	152	P	H
	!	2485.42	48.22	-5.78	54	53.24	25.94	5.51	36.47	100	152	A	H
		2388.26	66.48	-7.52	74	71.63	25.8	5.47	36.42	397	61	P	V
		2389.69	47.89	-6.11	54	53.04	25.8	5.47	36.42	397	61	A	V
	*	2424	102.61	-	-	107.71	25.86	5.48	36.44	397	61	P	V
	*	2422	94.74	-	-	99.84	25.86	5.48	36.44	397	61	A	V
	2483.98	62.86	-11.14	74	67.88	25.94	5.51	36.47	397	61	P	V	



802.11ac VHT40 CH 06 2437MHz		2385.53	68.47	-5.53	74	73.62	25.8	5.47	36.42	100	306	P	H
	!	2384.88	50.1	-3.9	54	55.44	25.67	5.45	36.46	100	306	A	H
	*	2434	108.29	-	-	113.39	25.86	5.48	36.44	100	306	P	H
	*	2444	100.28	-	-	105.35	25.89	5.49	36.45	100	306	A	H
	!	2488.12	67.74	-6.26	74	72.73	25.97	5.52	36.48	100	306	P	H
	!	2483.62	53.16	-0.84	54	58.18	25.94	5.51	36.47	100	306	A	H
		2387.22	67.41	-6.59	74	72.56	25.8	5.47	36.42	400	260	P	V
		2389.82	49.76	-4.24	54	54.91	25.8	5.47	36.42	400	260	A	V
	*	2442	108.54	-	-	113.61	25.89	5.49	36.45	400	260	P	V
	*	2442	100.5	-	-	105.57	25.89	5.49	36.45	400	260	A	V
		2489.44	68.93	-5.07	74	73.92	25.97	5.52	36.48	400	260	P	V
	!	2483.62	53.07	-0.93	54	58.09	25.94	5.51	36.47	400	260	A	V
802.11ac VHT40 CH 08 2447MHz		2389.69	63.45	-10.55	74	68.6	25.8	5.47	36.42	100	137	P	H
		2388.65	45.78	-8.22	54	50.93	25.8	5.47	36.42	100	137	A	H
	*	2444	105.84	-	-	110.91	25.89	5.49	36.45	100	137	P	H
	*	2446	98.03	-	-	103.1	25.89	5.49	36.45	100	137	A	H
	!	2486.38	69.21	-4.79	74	74.23	25.94	5.51	36.47	100	137	P	H
	!	2485	53.57	-0.43	54	58.59	25.94	5.51	36.47	100	137	A	H
		2373.05	61.86	-12.14	74	67.2	25.67	5.45	36.46	338	58	P	V
		2389.95	45.01	-8.99	54	50.16	25.8	5.47	36.42	338	58	A	V
	*	2444	104.23	-	-	109.3	25.89	5.49	36.45	338	58	P	V
	*	2444	96.35	-	-	101.42	25.89	5.49	36.45	338	58	A	V
	2484.46	66.11	-7.89	74	71.13	25.94	5.51	36.47	338	58	P	V	
!	2483.68	51.2	-2.8	54	56.22	25.94	5.51	36.47	338	58	A	V	



802.11ac VHT40 CH 09 2452MHz		2386.44	57.8	-16.2	74	62.95	25.8	5.47	36.42	321	301	P	H
		2387.22	42.46	-11.54	54	47.61	25.8	5.47	36.42	321	301	A	H
	*	2448	99.37	-	-	104.44	25.89	5.49	36.45	321	301	P	H
	*	2458	91.56	-	-	96.61	25.91	5.5	36.46	321	301	A	H
		2485.84	64.22	-9.78	74	69.24	25.94	5.51	36.47	321	301	P	H
		2484.46	47.25	-6.75	54	52.27	25.94	5.51	36.47	321	301	A	H
		2380.98	54.86	-19.14	74	60.2	25.67	5.45	36.46	317	254	P	V
		2388	41.54	-12.46	54	46.69	25.8	5.47	36.42	317	254	A	V
	*	2456	97.1	-	-	102.15	25.91	5.5	36.46	317	254	P	V
	*	2448	89.19	-	-	94.26	25.89	5.49	36.45	317	254	A	V
		2486.26	61.74	-12.26	74	66.76	25.94	5.51	36.47	317	254	P	V
		2484.58	45.4	-8.6	54	50.42	25.94	5.51	36.47	317	254	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac		4842	42.77	-31.23	74	40.82	30.73	7.74	36.52	160	0	P	H
VHT40		7266	48.16	-25.84	74	39.96	34.72	9.72	36.24	160	0	P	H
CH 03		4842	44.12	-29.88	74	42.17	30.73	7.74	36.52	160	360	P	V
2422MHz		7266	49.13	-24.87	74	40.93	34.72	9.72	36.24	160	360	P	V
802.11ac		4854	43.05	-30.95	74	41.03	30.79	7.75	36.52	160	0	P	H
VHT40		7281	46.78	-27.22	74	38.58	34.72	9.72	36.24	160	0	P	H
CH 04		4854	43.16	-30.84	74	41.14	30.79	7.75	36.52	160	360	P	V
2427MHz		7284	45.49	-28.51	74	37.23	34.76	9.74	36.24	160	360	P	V
802.11ac		4872	42.7	-31.3	74	40.62	30.85	7.76	36.53	160	0	P	H
VHT40		7308	47.56	-26.44	74	39.24	34.81	9.76	36.25	160	0	P	H
CH 06		4872	42.68	-31.32	74	40.6	30.85	7.76	36.53	160	360	P	V
2437MHz		7308	47.06	-26.94	74	38.74	34.81	9.76	36.25	160	360	P	V
802.11ac		4896	41.6	-32.4	74	39.47	30.9	7.77	36.54	160	360	P	H
VHT40		7341	46.64	-27.36	74	38.2	34.9	9.8	36.26	160	360	P	H
CH 08		4894	42.6	-31.4	74	40.47	30.9	7.77	36.54	160	0	P	V
2447MHz		7344	46.87	-27.13	74	38.43	34.9	9.8	36.26	160	0	P	V
802.11ac		4902	42.57	-31.43	74	40.38	30.96	7.78	36.55	160	0	P	H
VHT40		7356	46.56	-27.44	74	38.07	34.94	9.82	36.27	160	0	P	H
CH 09		4902	42.42	-31.58	74	40.23	30.96	7.78	36.55	160	360	P	V
2452MHz		7356	46.64	-27.36	74	38.15	34.94	9.82	36.27	160	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11ac VHT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ac VHT40 LF		34.85	32.69	-7.31	40	38.58	25.7	0.71	32.3	110	25	P	H
		94.99	27.09	-16.41	43.5	39.86	18.3	1.17	32.24	-	-	P	H
		159.01	30.39	-13.11	43.5	43.73	17.41	1.53	32.28	-	-	P	H
		219.15	33.38	-12.62	46	46.77	17.08	1.73	32.2	-	-	P	H
		437.4	27.7	-18.3	46	32.35	24.7	2.6	31.95	-	-	P	H
		711.91	29.76	-16.24	46	30.41	27.67	3.37	31.69	-	-	P	H
		34.85	33	-7	40	38.89	25.7	0.71	32.3	100	0	P	V
		45.52	31.12	-8.88	40	43.8	18.7	0.83	32.21	-	-	P	V
		94.02	26.54	-16.96	43.5	39.4	18.22	1.17	32.25	-	-	P	V
		220.12	26.29	-19.71	46	39.67	17.08	1.73	32.19	-	-	P	V
	323.91	27.77	-18.23	46	37.03	20.61	2.21	32.08	-	-	P	V	
	707.06	30.16	-15.84	46	30.68	27.81	3.36	31.69	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix B. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																					
ANT	802.11b CH01 2412MHz																																																																					
1+2	Horizontal	Fundamental																																																																				
Peak	<pre> Site : 83CWB3-K5 Condition : FCC PART 15C 3m HF ANT-201704-91280 HORIZONTAL Project : SMT:Auto Node : (FR) 760219 Plane : Pad +X Plane : Full-directivity IMEI : 84 Powersettig : 18 </pre> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2388.26</td> <td>57.34</td> <td>-16.66</td> <td>74.00</td> <td>62.49</td> <td>25.80</td> <td>5.47</td> <td>36.42</td> <td>179</td> <td>140 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1	2388.26	57.34	-16.66	74.00	62.49	25.80	5.47	36.42	179	140 Peak	HORIZONTAL	<pre> Site : 83CWB3-K5 Condition : FCC PART 15C 3m HF ANT-201704-91280 HORIZONTAL Project : SMT:Auto Node : (FR) 760219 Plane : Pad +X Plane : Full-directivity IMEI : 84 Powersettig : 18 </pre> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2412.00</td> <td>112.36</td> <td>38.36</td> <td>74.00</td> <td>117.49</td> <td>25.83</td> <td>5.47</td> <td>36.43</td> <td>179</td> <td>140 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1 *	2412.00	112.36	38.36	74.00	117.49	25.83	5.47	36.43	179	140 Peak	HORIZONTAL
Freq	Level	Limit	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg																																																														
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Freq	Level	Limit	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																												
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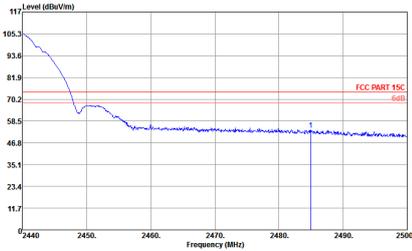
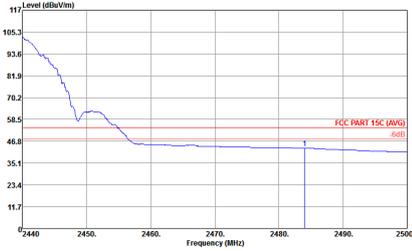


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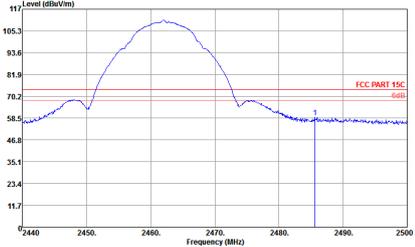
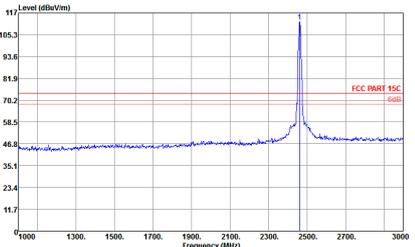
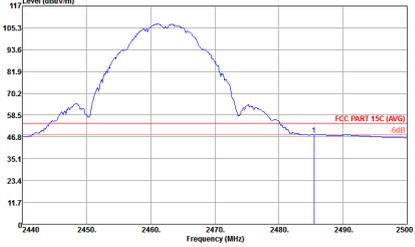
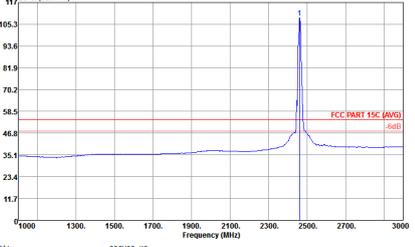


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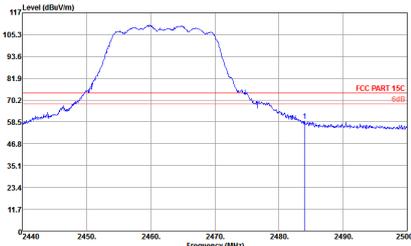
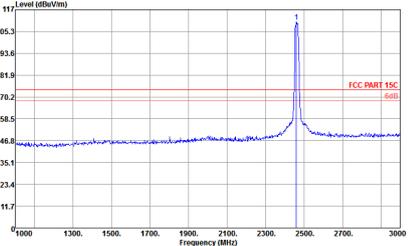
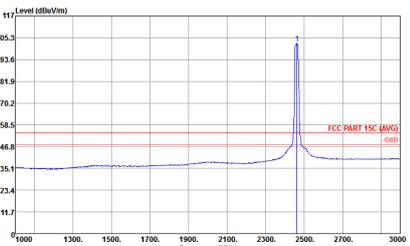


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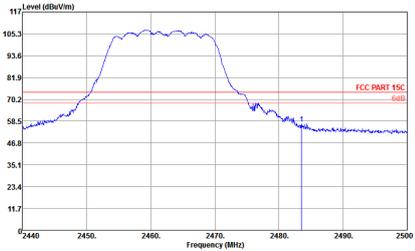
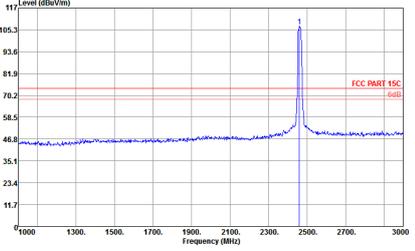
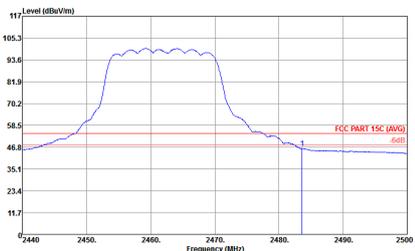
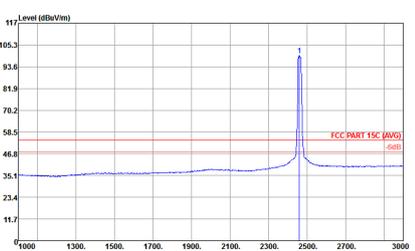


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	<pre> Site : 03CM3-KS Condition : FCC PART 15C 3m HF ANT-201704-91200 VERTICAL Project : (FR) 760219 Mode : 11 Plane : Close : Full-directivity JME1 : #4 Powersettig : 27.5 Freq Level Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Pol/Phas MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 2484.88 54.81 -19.19 74.00 59.83 25.94 5.51 36.47 400 185 Peak VERTICAL </pre>	
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																	
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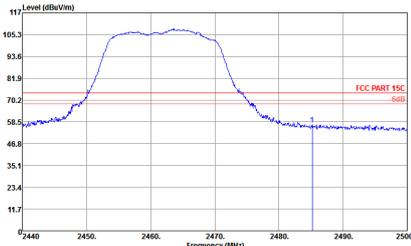
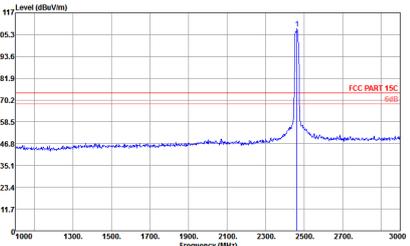
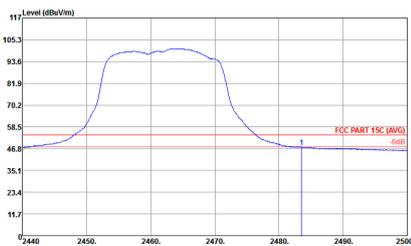
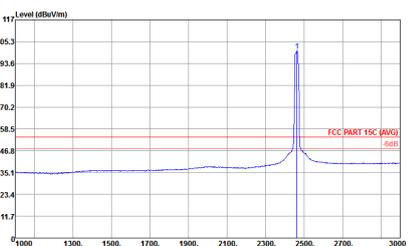


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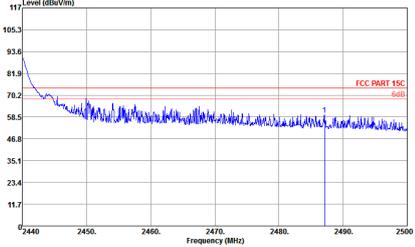
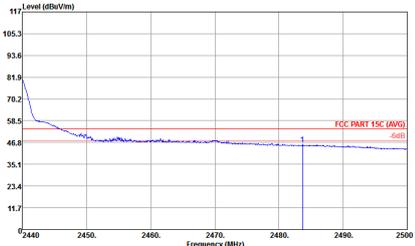
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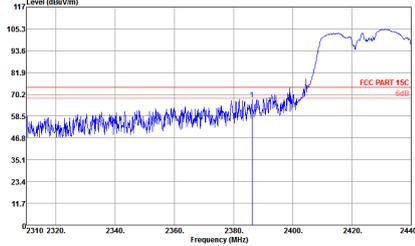
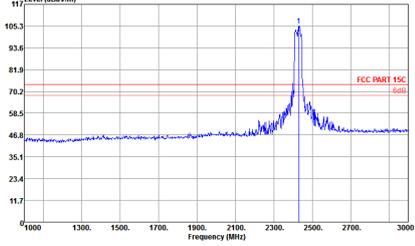
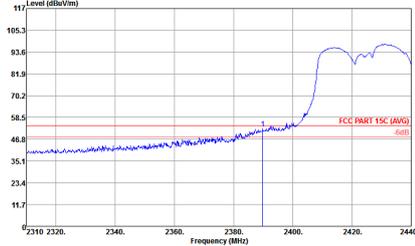
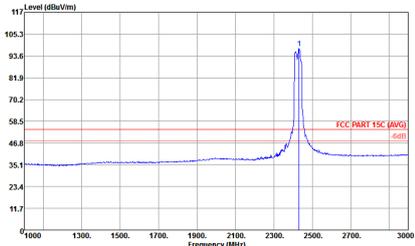


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ANT	802.11ac VH40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
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<p>Avg.</p>	<pre> Site : 03CWB0-K5 Condition : FCC PART 15C (AVG) 3m HF ANT-201704-91280 VERTICAL Software : SMI-ANETS Project : (FR) 760219 Node : 16 Plane : Pad-x Plane : Full-directivity IMEI : 84 PowerSetting : 18.5 Freq Level Limit Line ReadAntenna Cable Preamp A/Pos T/Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 2483.56 44.82 -9.18 74.00 49.84 25.94 5.51 36.47 400 271 Average VERTICAL </pre>	



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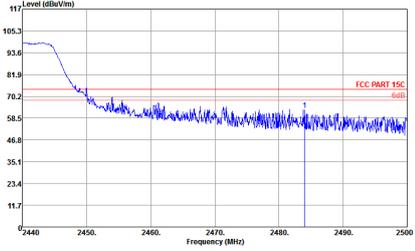
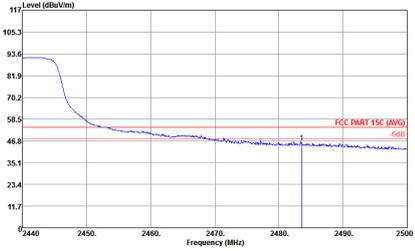


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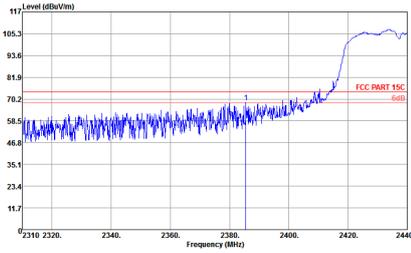
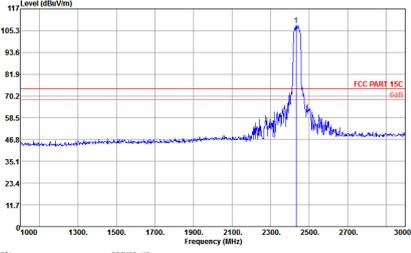
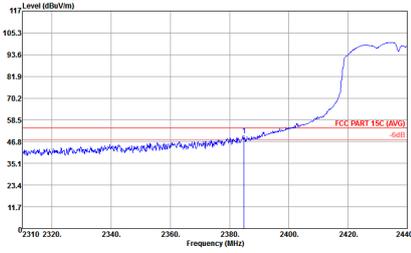
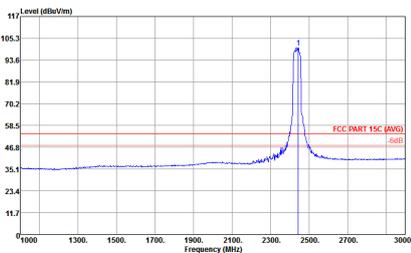


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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																															
ANT	802.11ac VH40 CH04 2427MHz - R																															
1+2	Vertical	Fundamental																														
<p>Peak</p>	 <pre> Site : 630H3-K5 Condition : FCC PART 15C 3m HF ANT-201704-01280 VERTICAL Project : [F4] 760219 Node : 19 Plane : Pa6K Plane : Full-directivity SWE1 : 44 Powersettig : 15 </pre> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 2483.98</td> <td>62.86</td> <td>-11.14</td> <td>74.00</td> <td>67.88</td> <td>25.94</td> <td>5.51</td> <td>36.47</td> <td>397</td> <td>61 Peak VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 2483.98	62.86	-11.14	74.00	67.88	25.94	5.51	36.47	397	61 Peak VERTICAL	
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 <pre> Site : 83CWB3-K5 Condition : FCC PART 15C 3m HF ANT-201704-91280 HORIZONTAL Project : SMT-Auto Project : (FR) 760219 Mode : 17 Plane : Pad-X Plane : Full-directivity JME1 : #4 PowerSetting : 17 Freq Level Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 1 2385.53 68.47 -5.53 74.00 73.62 25.80 5.47 36.42 100 306 Peak HORIZONTAL </pre>	 <pre> Site : 83CWB3-K5 Condition : FCC PART 15C 3m HF ANT-201704-91280 HORIZONTAL Project : SMT-Auto Project : (FR) 760219 Mode : 17 Plane : Pad-X Plane : Full-directivity JME1 : #4 PowerSetting : 17 Freq Level Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 2434.00 100.29 34.29 74.00 113.39 25.86 5.48 36.44 100 306 Peak HORIZONTAL </pre>
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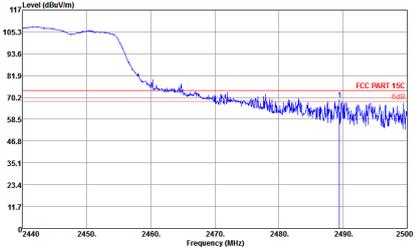
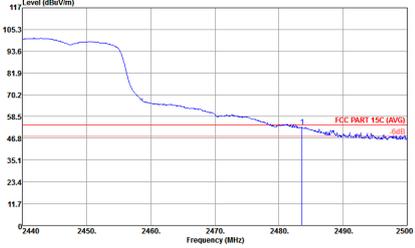


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	<pre> Site : 03C03-K5 Condition : FCC PART 15C 3m HF ANT-201704-91280 HORIZONTAL Project : (FR) 760219 Mode : 17 Plane : PadK : Full-directivity JME1 : 84 Powersettig : 17 : 17 Freq Level Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Pol/Phas ----- MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 2488.12 67.74 -6.26 74.00 72.73 25.97 5.52 36.48 100 306 Peak HORIZONTAL </pre>	
<p>Avg.</p>	<pre> Site : 03C03-K5 Condition : FCC PART 15C (AVG) 3m HF ANT-201704-91280 HORIZONTAL Project : (FR) 760219 Mode : 17 Plane : PadK : Full-directivity JME1 : 84 Powersettig : 17 : 17 Freq Level Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Pol/Phas ----- MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 2483.62 53.16 -8.84 74.00 58.18 25.94 5.51 36.47 100 306 Average HORIZONTAL </pre>	

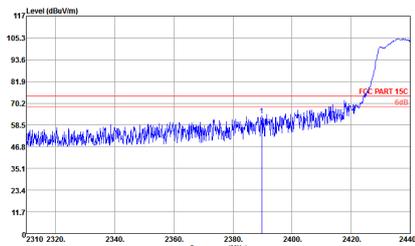
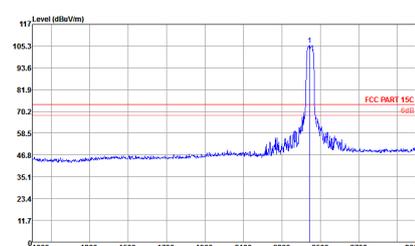
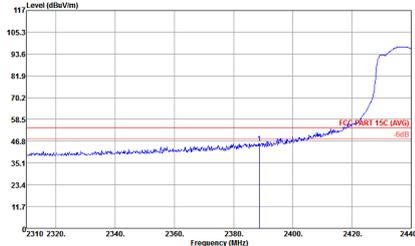
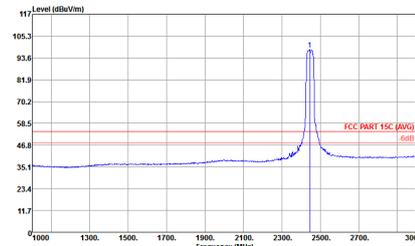


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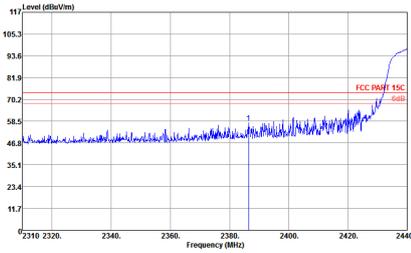
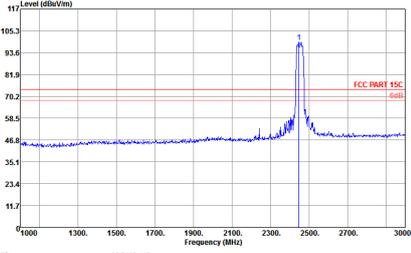
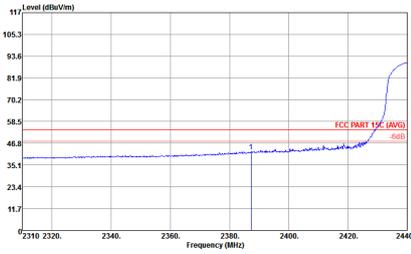
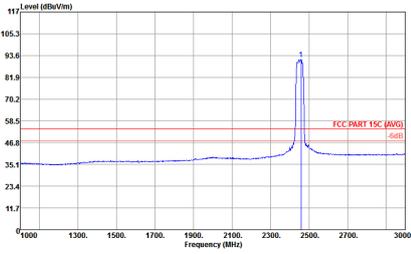


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Avg.	<p>Site : 03CH03-K5 Condition : FCC PART 15C (AVG) 3m HF ANT-201704-91280 VERTICAL Project : (FR) 760219 Mode : IS Plane : Pa64K Power : Full-Directivity SWE : 84 PowerSetting : 0</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2484.58</td> <td>45.48</td> <td>-8.00</td> <td>54.00</td> <td>50.42</td> <td>25.94</td> <td>5.51</td> <td>36.47</td> <td>317</td> <td>254 Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2484.58	45.48	-8.00	54.00	50.42	25.94	5.51	36.47	317	254 Average	VERTICAL	
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**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

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**2.4GHz 2400~2483.5MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	<pre> Site : 03CH3-KS Condition : FCC PART 15C 3m HF ANT-201704-912ND HORIZONTAL Project : (FR) 760219 Mode : 13 Plane : Close : Full-directivity IME1 : #4 Powersettig : 34.5 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos MHz dBuV/m dB dBuV/m dBuV/m dB cm deg Remark Pol/Phas 1 4824.00 44.16 -29.84 74.00 42.27 30.68 7.72 36.51 300 360 Peak HORIZONTAL </pre>	<pre> Site : 03CH3-KS Condition : FCC PART 15C 3m HF ANT-201704-912ND VERTICAL Project : (FR) 760219 Mode : 13 Plane : Close : Full-directivity IME1 : #4 Powersettig : 34.5 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos MHz dBuV/m dB dBuV/m dBuV/m dB cm deg Remark Pol/Phas 1 4824.00 43.24 -30.76 74.00 41.35 30.68 7.72 36.51 300 360 Peak VERTICAL </pre>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																													
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1+2	Horizontal	Vertical																																																																																												
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2.4GHz 2400~2483.5MHz

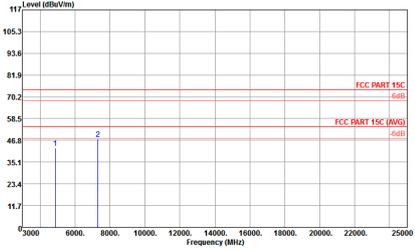
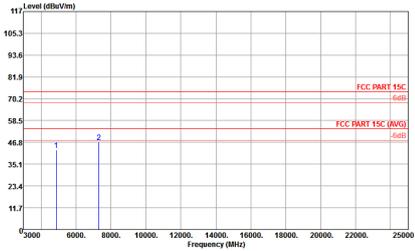
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
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ANT	802.11ac VHT40 CH06 2437MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>	 <pre> Site : 83C0B3-K5 Condition : FCC PART 15C 3m HF ANT-281704-91280 HORIZONTAL Project : SWF-Auto Node : (FR) 760219 Plane : Pad-X Plane : Full-directivity IMEI : 84 Powersettig : 16 Freq Level Limit ReadAntenna Cable Preampl A/Pos T/Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB cm deg Remark Pol/Phas 1 4872.00 42.78 -31.30 74.00 48.62 38.85 7.76 36.53 160 0 Peak HORIZONTAL 2 7388.00 47.56 -26.44 74.00 39.24 34.81 9.76 36.25 160 0 Peak HORIZONTAL </pre>	 <pre> Site : 83C0B3-K5 Condition : FCC PART 15C 3m HF ANT-281704-91280 VERTICAL Project : SWF-Auto Node : (FR) 760219 Plane : Pad-X Plane : Full-directivity IMEI : 84 Powersettig : 16 Freq Level Limit Line ReadAntenna Cable Preampl A/Pos T/Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB cm deg Remark Pol/Phas 1 4872.00 42.68 -31.32 74.00 48.60 38.85 7.76 36.53 160 160 Peak VERTICAL 2 7388.00 47.06 -26.94 74.00 38.74 34.81 9.76 36.25 160 160 Peak VERTICAL </pre>



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Emission below 1GHz
2.4GHz WIFI 802.11ac VHT40 (LF)

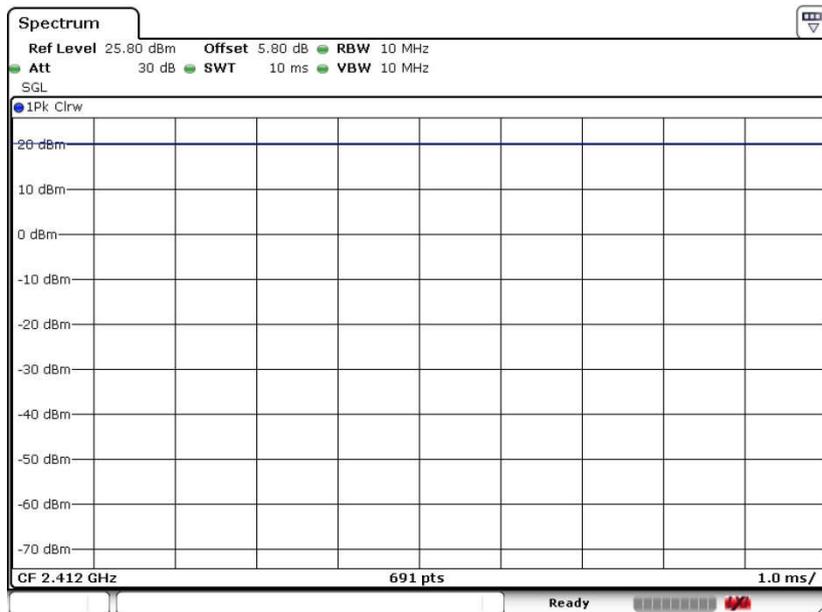
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Appendix C. Duty Cycle Plots

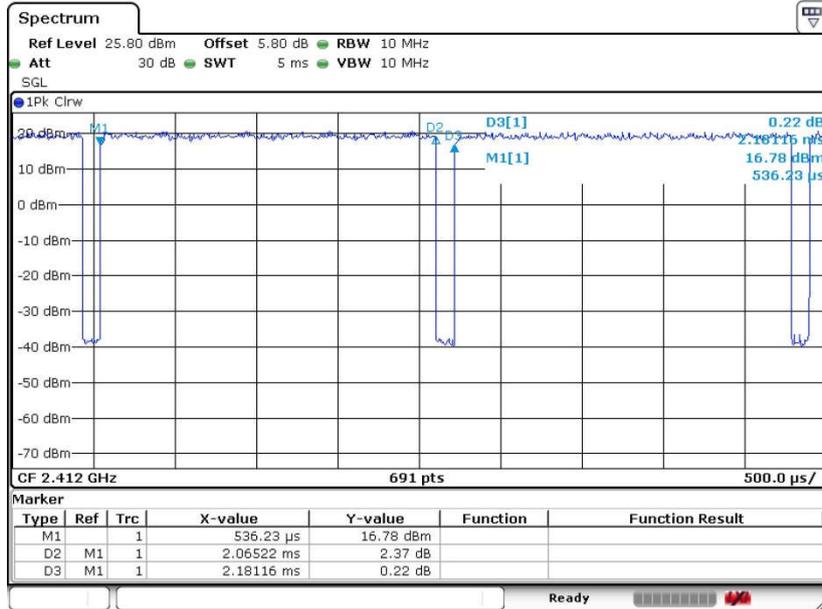
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11b	100	-	-	10Hz
1+2	802.11g	94.68	2.065	0.484	1kHz
1+2	802.11ac VHT20	94.68	1.935	0.517	1kHz
1+2	802.11ac VHT40	89.73	0.949	1.053	3kHz

802.11b

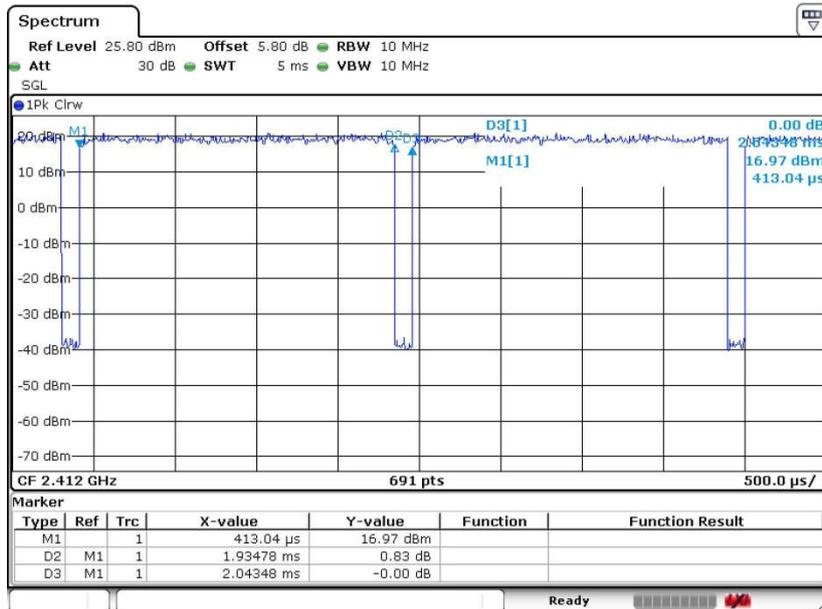




802.11g



802.11ac VHT20





802.11ac VHT40

