



TEST REPORT

Report Reference No. : **TRE1708011802** R/C.....: 32073
FCC ID : **2AFD9MAGNETIC**
Applicant's name : **MOVEON TECHNOLOGY LIMITED**
Address : World Trade Plaza-A block#3201-3202 Fuhong Road, Futian, Shenzhen, China
Manufacturer : MOVEON TECHNOLOGY LIMITED
Address : World Trade Plaza-A block#3201-3202 Fuhong Road, Futian, Shenzhen, China
Test item description : **Smart phone**
Trade Mark : ZOOM
Model/Type reference : Magnetic
Listed Model(s) : -
Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**
Date of receipt of test sample : Aug.19,2017
Date of testing : Aug.20,2017- Sep.01,2017
Date of issue : Sep.04,2017
Result : **PASS**

Compiled by
(position+printedname+signature).... : File administrators Candy Liu

Candy Liu

Supervised by
(position+printedname+signature).... : Project Engineer Lion Cai

Lion Cai

Approved by
(position+printedname+signature).... : RF Manager Hans Hu

Hans Hu

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely corresponds to the test sample.

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10:2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 DTS Meas Guidance v03r05](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under § 15.247

1.2. Report version

Version No.	Date of issue	Description
00	Sep.04,2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
Line Conducted Emission (AC Main)	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Power Spectral Density	15.247 (e)	Pass
6dB Bandwidth	15.247 (a)(2)	Pass
Restricted band	15.247(d)/15.205	Pass
Spurious Emission	15.247(d)/15.209	Pass

Note: The measurement uncertainty is not included in the test result.

3. Summary

3.1. Client Information

Applicant:	MOVEON TECHNOLOGY LIMITED
Address:	World Trade Plaza-A block#3201-3202 Fuhong Road, Futian,Shenzhen, China
Manufacturer:	MOVEON TECHNOLOGY LIMITED
Address:	World Trade Plaza-A block#3201-3202 Fuhong Road, Futian,Shenzhen, China

3.2. Product Description

Name of EUT:	Smart phone			
Trade Mark:	ZOOM			
Model No.:	Magnetic			
Listed Model(s):	-			
Power supply:	DC 3.8V From exchange battery			
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.15A Output: 5Vd.c., 1000mA			
WIFI				
Supported type:	☒ 802.11b	☒ 802.11g	☒ 802.11n(H20)	
Modulation:	<u>DSSS</u> for 802.11b <u>OFDM</u> for 802.11g/802.11n(H20)			
Operation frequency:	<u>2412MHz~2462MHz</u> for 802.11b/802.11g/802.11n(H20)			
Channel number:	<u>11</u> for 802.11b/802.11g/802.11n(H20)			
Channel separation:	5MHz			
Antenna type:	PIFA antenna			
Antenna gain:	0.58dBi			

3.3. Operation state

➤ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g/n(H20)	
Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

➤ Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%).
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For RF test axis
EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. Test Environment

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
10	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
11	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2016/11/13

RF Conducted					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13
2	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	2016/11/13
3	Power Meter	Anritsu	ML2480B	100798	2016/11/13
4	Power Sensor	Anritsu	MA2411B	100258	2016/11/13

The Cal.Interval was one year

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9 kHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9 kHz -40 GHz	2.20 dB	(1)
Conducted Emission 9 kHz -30 MHz	3.39 dB	(1)
Radiated Emission 30~1000 MHz	4.24 dB	(1)
Radiated Emission 1~18 GHz	5.16 dB	(1)
Radiated Emission 18-40 GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

5. Test Conditions and Results

5.1. Antenna requirement

REQUIREMENT:

FCC CFR Title 47 Part 15 Subpart C 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.

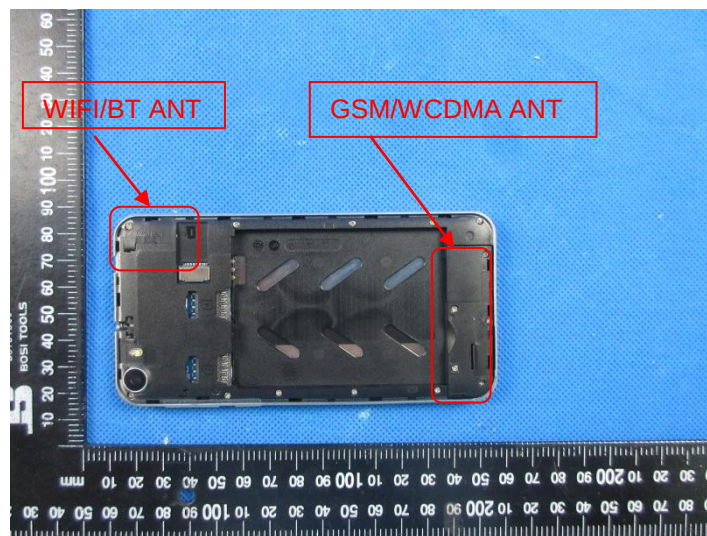
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

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

TEST RESULTS

☒ Passed ☐ Not Applicable

The antenna is PIFA antenna, the best case gain of the antenna is 0.58dBi, please refer to the below antenna photo.



5.2. Conducted Emission (AC Main)

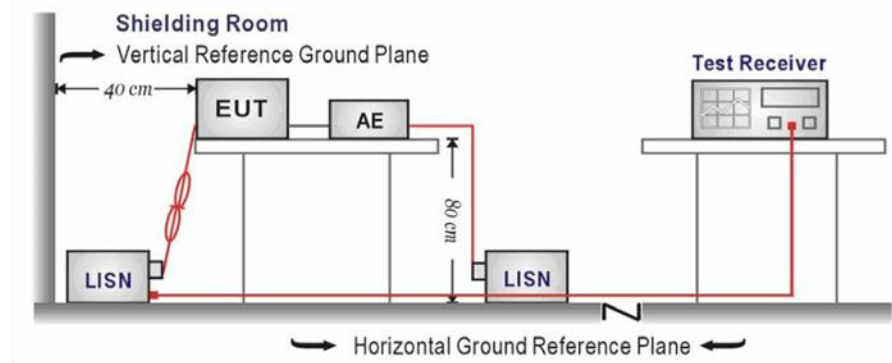
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Frequency range (MHz)	Limit (dBuV)	
	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.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

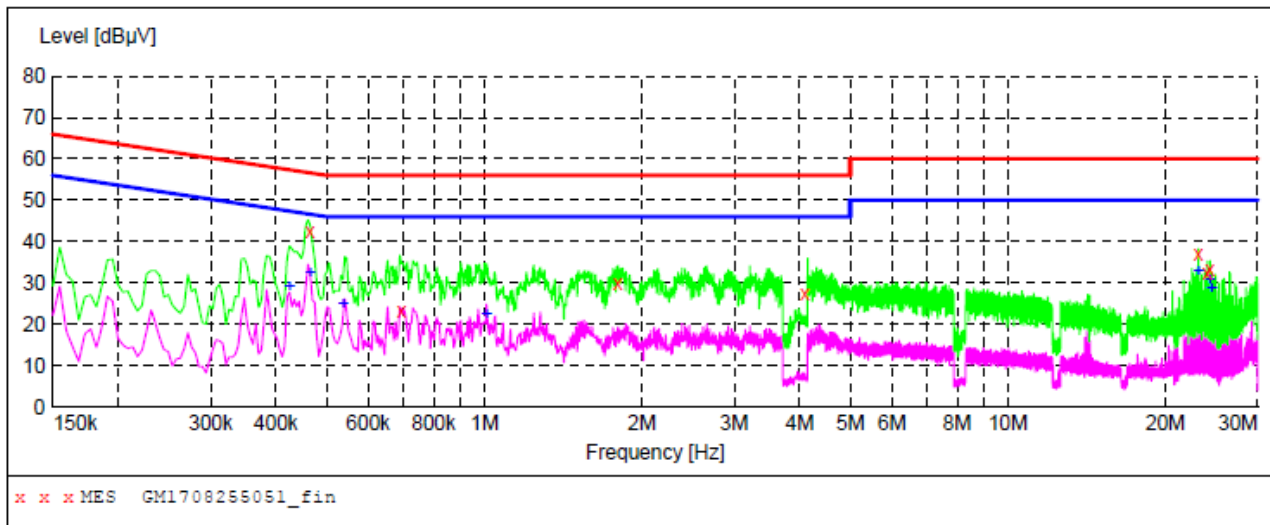
☒ **Passed** ☐ **Not Applicable**

Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

Test Line:

L

**MEASUREMENT RESULT: "GM1708255051_fin"**

8/25/2017 1:41PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.465000	42.60	10.2	57	14.0	QP	L1	GND
0.694500	23.20	10.2	56	32.8	QP	L1	GND
1.797000	30.10	10.2	56	25.9	QP	L1	GND
4.101000	27.40	10.3	56	28.6	QP	L1	GND
23.127000	36.90	10.7	60	23.1	QP	L1	GND
24.040500	32.50	10.7	60	27.5	QP	L1	GND
24.346500	33.30	10.7	60	26.7	QP	L1	GND

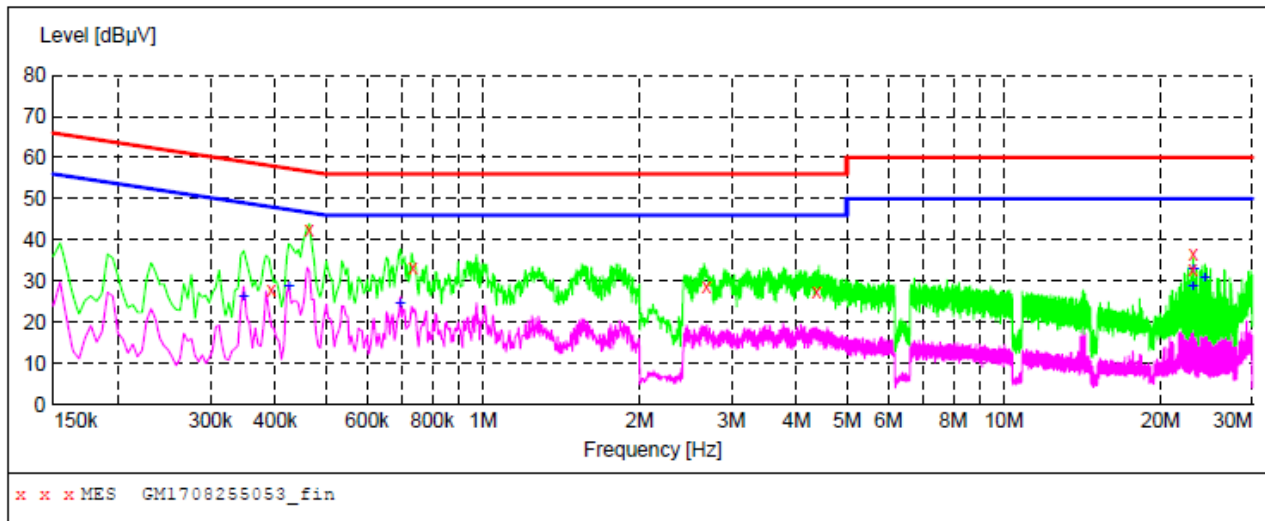
MEASUREMENT RESULT: "GM1708255051_fin2"

8/25/2017 1:41PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.424500	29.10	10.2	47	18.3	AV	L1	GND
0.465000	32.60	10.2	47	14.0	AV	L1	GND
0.537000	24.80	10.2	46	21.2	AV	L1	GND
1.009500	22.50	10.2	46	23.5	AV	L1	GND
23.127000	32.90	10.7	50	17.1	AV	L1	GND
24.346500	30.60	10.7	50	19.4	AV	L1	GND
24.531000	28.80	10.7	50	21.2	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1708255053_fin"**

8/25/2017 1:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.393000	27.90	10.2	58	30.1	QP	N	GND
0.465000	42.30	10.2	57	14.3	QP	N	GND
0.735000	33.30	10.2	56	22.7	QP	N	GND
2.692500	28.70	10.2	56	27.3	QP	N	GND
4.375500	27.60	10.3	56	28.4	QP	N	GND
23.064000	33.00	10.7	60	27.0	QP	N	GND
23.127000	36.80	10.7	60	23.2	QP	N	GND

MEASUREMENT RESULT: "GM1708255053_fin2"

8/25/2017 1:45PM

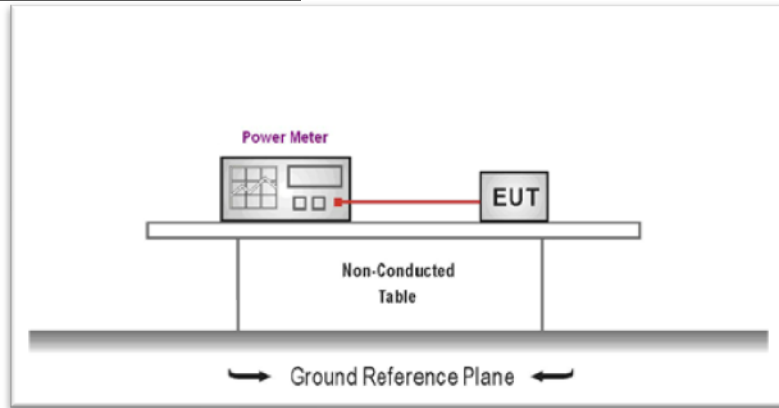
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.348000	26.30	10.2	49	22.7	AV	N	GND
0.424500	28.50	10.2	47	18.9	AV	N	GND
0.694500	24.50	10.2	46	21.5	AV	N	GND
23.064000	28.60	10.7	50	21.4	AV	N	GND
23.127000	32.90	10.7	50	17.1	AV	N	GND
24.346500	30.60	10.7	50	19.4	AV	N	GND

5.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): **30dBm**:

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.21	30.00	Pass
	06	14.21		
	11	14.21		
802.11g	01	13.92	30.00	Pass
	06	13.92		
	11	13.92		
802.11n(H20)	01	13.86	30.00	Pass
	06	14.67		
	11	14.39		

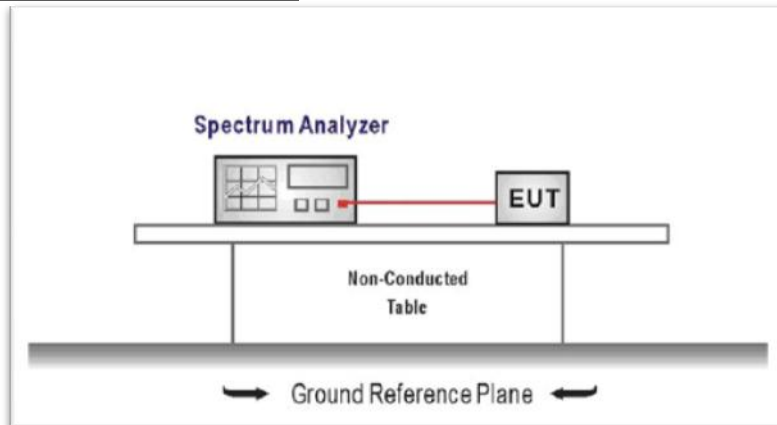
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 3.3

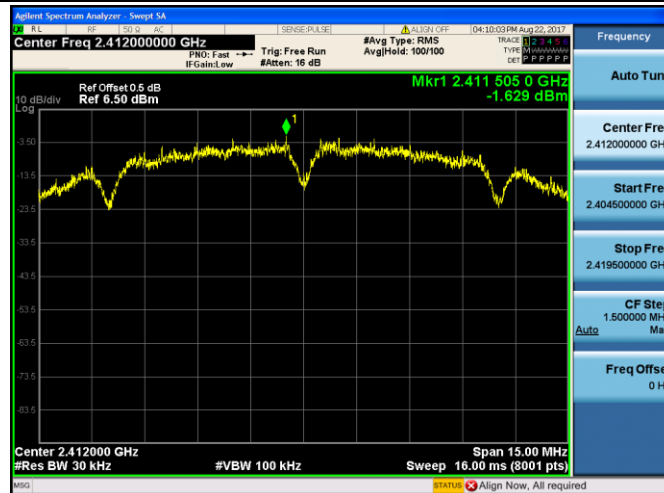
TEST RESULTS

☒ Passed ☐ Not Applicable

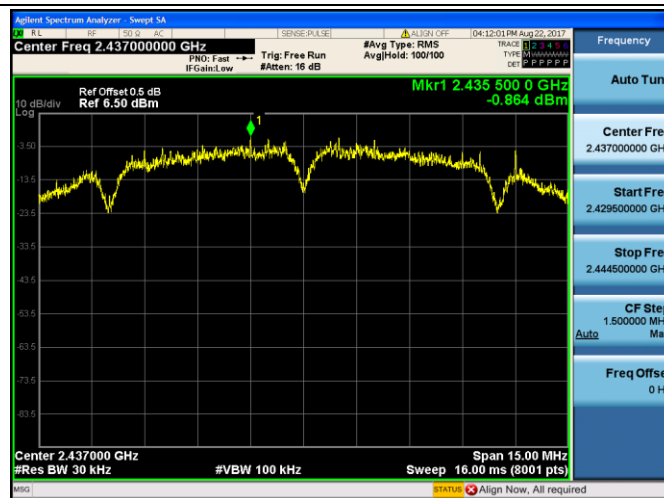
Type	Channel	Power Spectral Density (dBm/RBW)	Limit (dBm/RBW)	Result
802.11b	01	-1.629	8.00	Pass
	06	-0.864		
	11	1.294		
802.11g	01	-10.340	8.00	Pass
	06	-9.595		
	11	-9.183		
802.11n(H20)	01	-9.713	8.00	Pass
	06	-8.878		
	11	-9.042		

Test plot as follows:

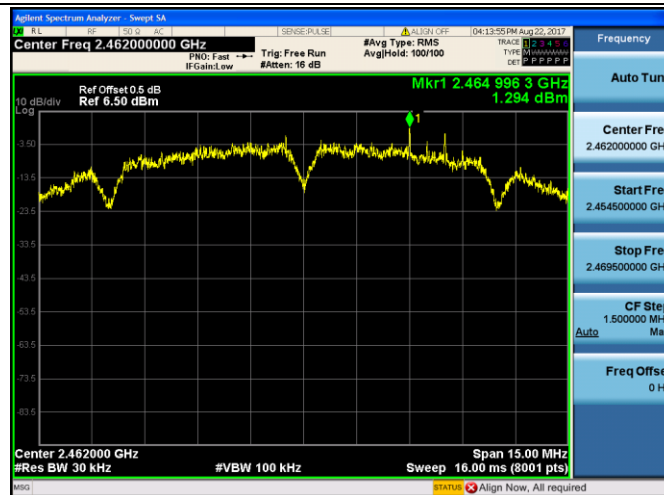
802.11b



CH01

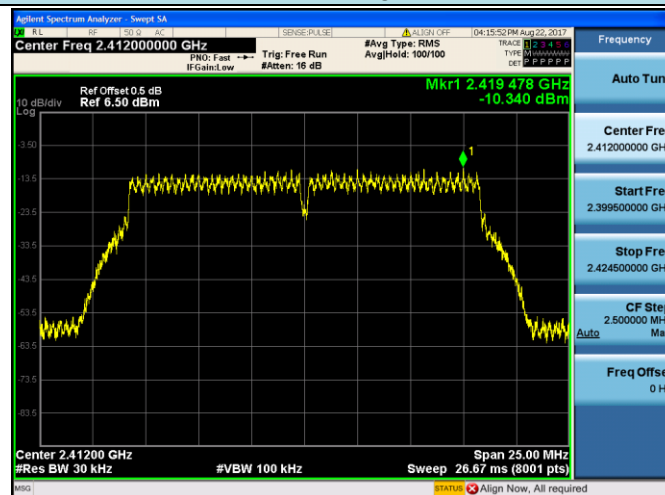


CH06

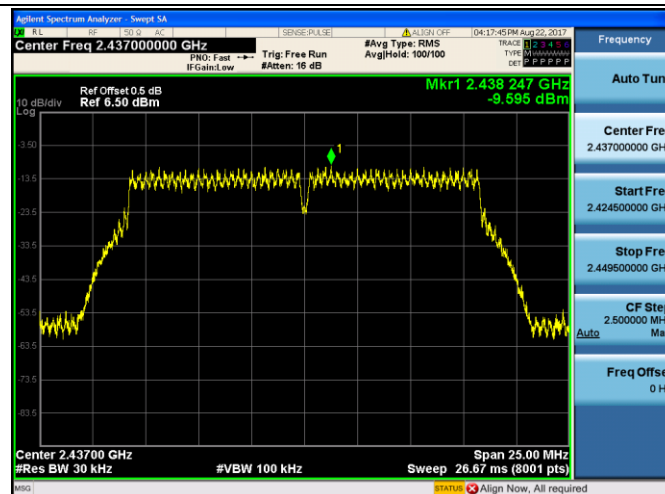


CH11

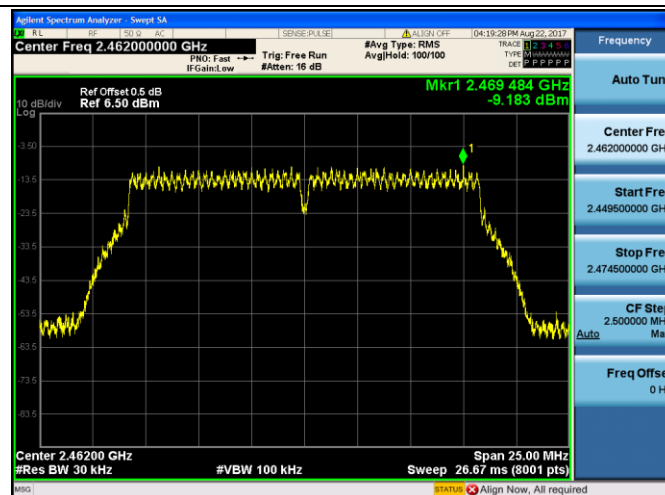
802.11g



CH01

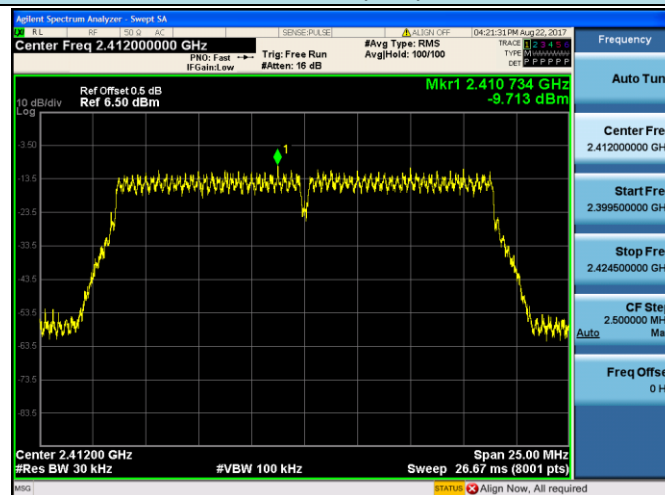


CH06

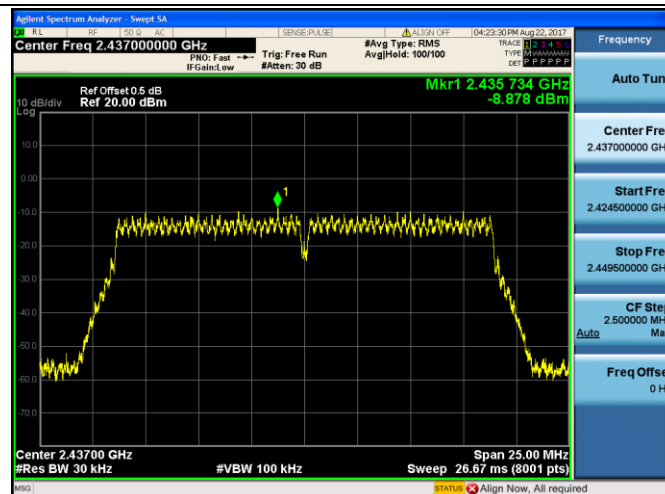


CH11

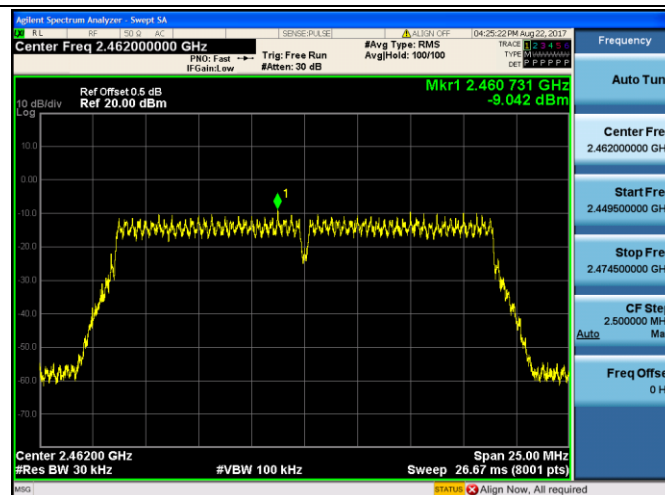
802.11n(H20)



CH01



CH06



CH11

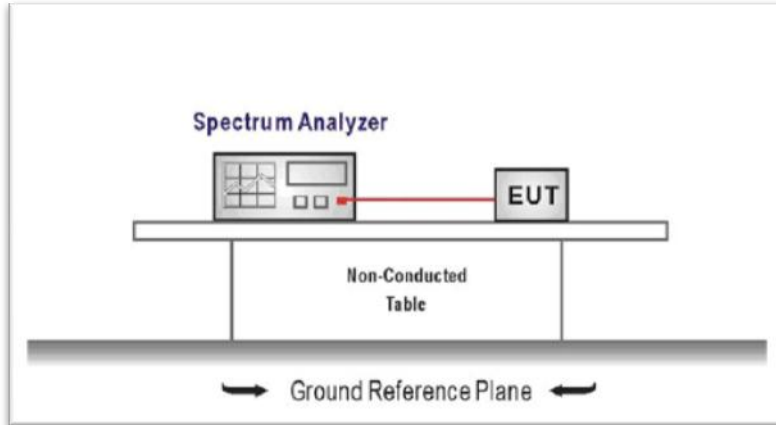
5.5. 6dB bandwidthand

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = DTS channel center frequency
Span = $2 \times$ DTS bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 3.3

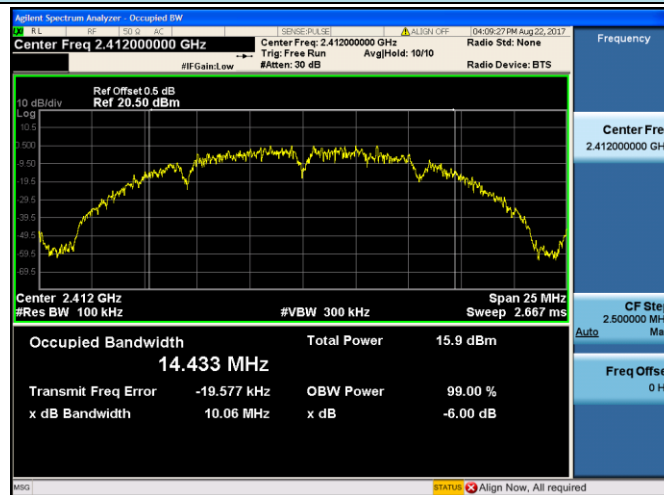
TEST RESULTS

☒ Passed ☐ Not Applicable

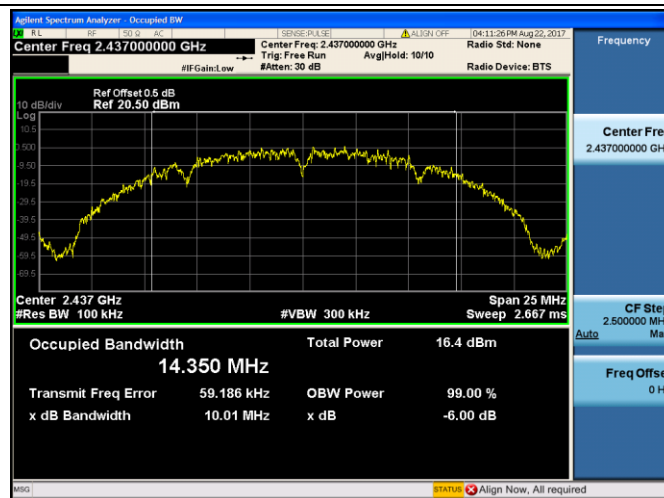
Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	10.06	≥ 500	Pass
	06	10.01		
	11	10.02		
802.11g	01	16.46	≥ 500	Pass
	06	16.50		
	11	16.36		
802.11n(H20)	01	17.77	≥ 500	Pass
	06	17.57		
	11	17.63		

Test plot as follows:

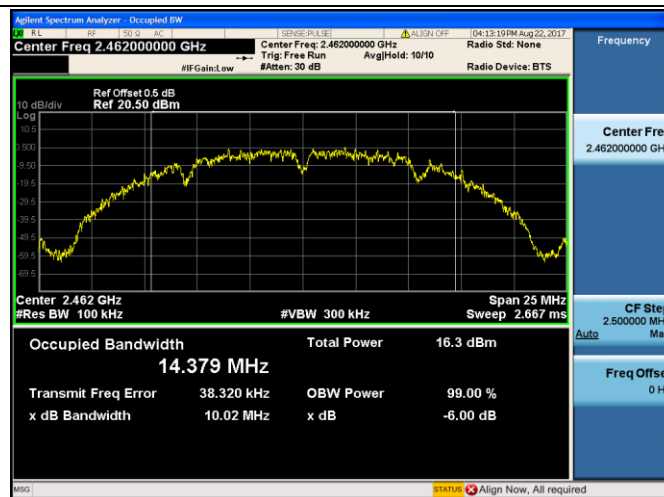
802.11b



CH01



CH06



CH11

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.412000000 GHz

Ref Offset: 0.5 dB
Ref 20.50 dBm

Span 40 MHz
Res BW 100 kHz

Occupied Bandwidth: 16.456 MHz

Total Power: 9.85 dBm

Transmit Freq Error: -216 Hz

OBW Power: 99.00 %

x dB Bandwidth: 16.46 MHz

x dB: -6.00 dB

Frequency: 2.412000000 GHz

CF Step: 4.000000 MHz

Freq Offset: 0 Hz

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz

#F-Gain:Low

Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB

ALIGN OFF

Radio Std: None

Frequency

Center Freq: 2.437000000 GHz

Ref Offset: 0.5 dB
Ref 20.50 dBm

Mkr1 2.437 GHz
-18.681 dBm

10 dB/div

Log

Center 2.437 GHz
#Res BW 100 kHz

#VBW 300 kHz

Span 40 MHz
Sweep 4.267 ms

Occupied Bandwidth

Total Power

10.8 dBm

26.489 MHz

Transmit Freq Error

-3.687 kHz

OBW Power

99.00 %

x dB Bandwidth

16.50 MHz

x dB

-6.00 dB

Auto

Freq Offset

0 Hz

MSG

STATUS

Align Now, All required

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.462000000 GHz

Trig: Free Run

#Atten: 30 dB

Radio Device: BTS

Frequency

Center Freq 2.462000000 GHz

Ref Offset 0.5 dB

Ref 20.50 dBm

Span 40 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 4.267 ms

Occupied Bandwidth

2.463 MHz

Total Power

11.1 dBm

Transmit Freq Error

8.204 kHz

OBW Power

99.00 %

x dB Bandwidth

16.36 MHz

x dB

-6.00 dB

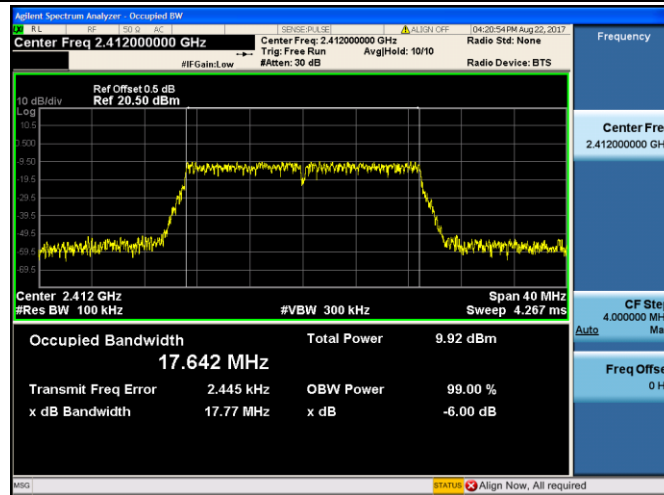
MSG

STATUS

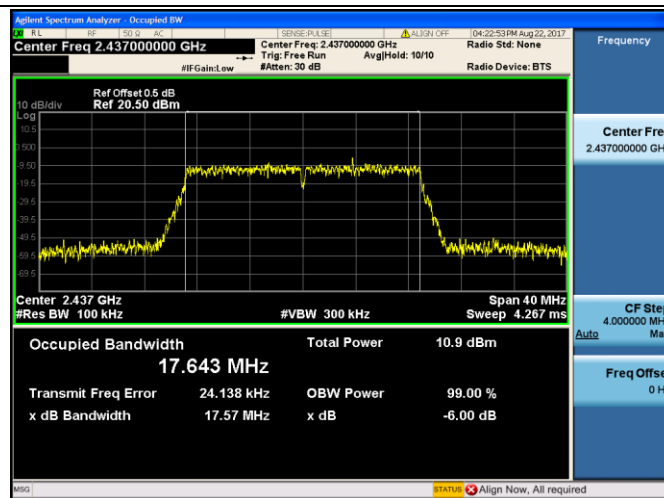
Align Now, All required

Report Template Version: H00 (2016-08)

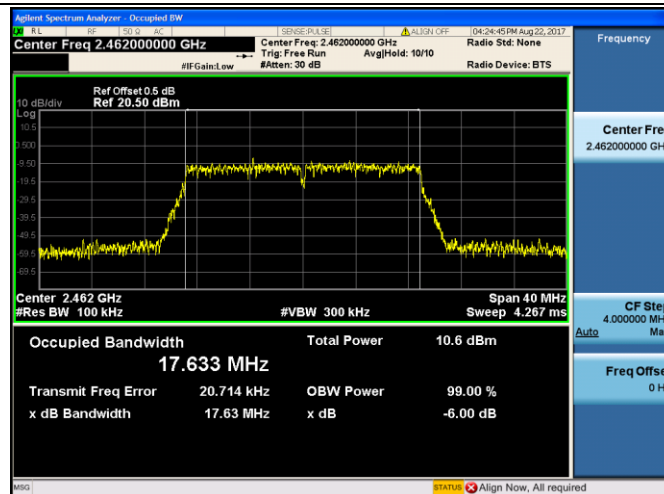
802.11n(H20)



CH01



CH06



CH11