

TEST REPORT

FCC ID: AZQKDX-XXX

Product: WIFI Digital AD Player

Model No.: KD1852-W39

Additional Model No.: KD1402-W17, KD1562-W17, KD1852-H01, KD1852-H26,
KD1852-W26, KD1852-H17, KD1852-H39, KD2152-W39, KD2152-W46,
KD2402-W17, KD2702-W38, KD3202-W42

Trade Mark: KOHO

Report No.: TCT160921E005

Issued Date: Oct. 11, 2016

Issued for:

Shenzhen KOHO Technology Co., Ltd.
Building3, Jin Yuda Industrial Park, ShangLiao Shajin, Baoan, Shenzhen
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Issued By:

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1. Test Certification

Product:	WIFI Digital AD Player
Model No.:	KD1852-W39
Additional Model No.:	KD1402-W17, KD1562-W17, KD1852-H01, KD1852-H26, KD1852-W26, KD1852-H17, KD1852-H39, KD2152-W39, KD2152-W46, KD2402-W17, KD2702-W38, KD3202-W42
Applicant:	Shenzhen KOHO Technology Co., Ltd.
Address:	Building3, Jin Yuda Industrial Park, ShangLiao Shajin, Baoan, Shenzhen China
Manufacturer:	Shenzhen Kanghai Electronics CO., LTD
Address:	Floor 4th, Building 3rd, Fubilun Dingfeng Hi-Tech Industry Park, Songgang Blvd, Bao'an District, Shenzhen, China
Date of Test:	Sep. 21 – Oct. 10, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Beryl Zhao

Date:

Oct. 10, 2016

Reviewed By:



Joe Zhou

Date:

Oct. 11, 2016

Approved By:



Tomsin

Date:

Oct. 11, 2016

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	WIFI Digital AD Player
Model :	KD1852-W39
Additional Model:	KD1402-W17, KD1562-W17, KD1852-H01, KD1852-H26, KD1852-W26, KD1852-H17, KD1852-H39, KD2152-W39, KD2152-W46, KD2402-W17, KD2702-W38, KD3202-W42
Trade Mark:	KOHO
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 65Mbps
Antenna Type:	Internal antenna
Antenna Gain:	1.87dBi
Power Supply:	Adapter Information: MODEL: KH1202000UW INPUT: AC 100-240V, 50/60Hz, 0.6A Max OUTPUT: 12V, 2000mA
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names and the color of appearance are different for the marketing requirement.

Operation Frequency each of channel For 802.11b/g/n(HT20)

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

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive. 2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all	

modulations.

4.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

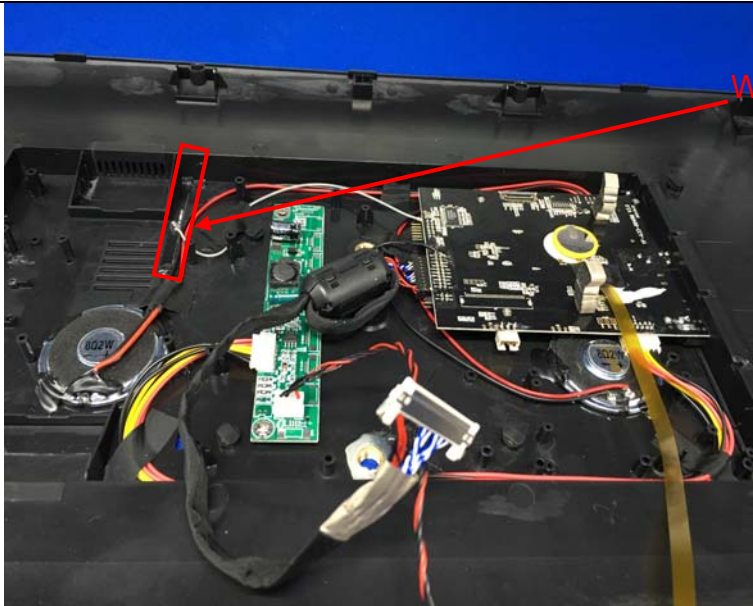
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

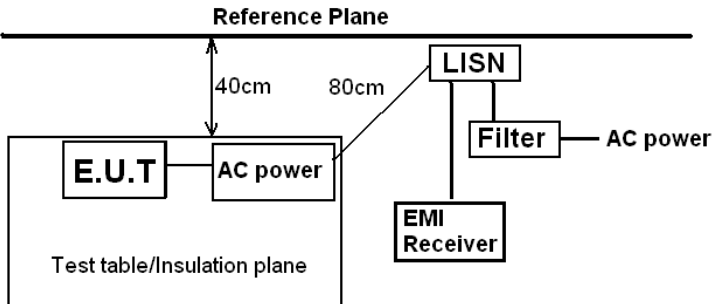
6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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. 15.247(c) (1)(i) requirement: (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.	
E.U.T Antenna:	
The WIFI antenna is a internal antenna which permanently attached, and the best case gain of the antenna is 1.87dBi.	
	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	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
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													
Test Setup:	Reference Plane  Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Transmitting with modulation														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	PASS														

6.2.2. Test Instruments

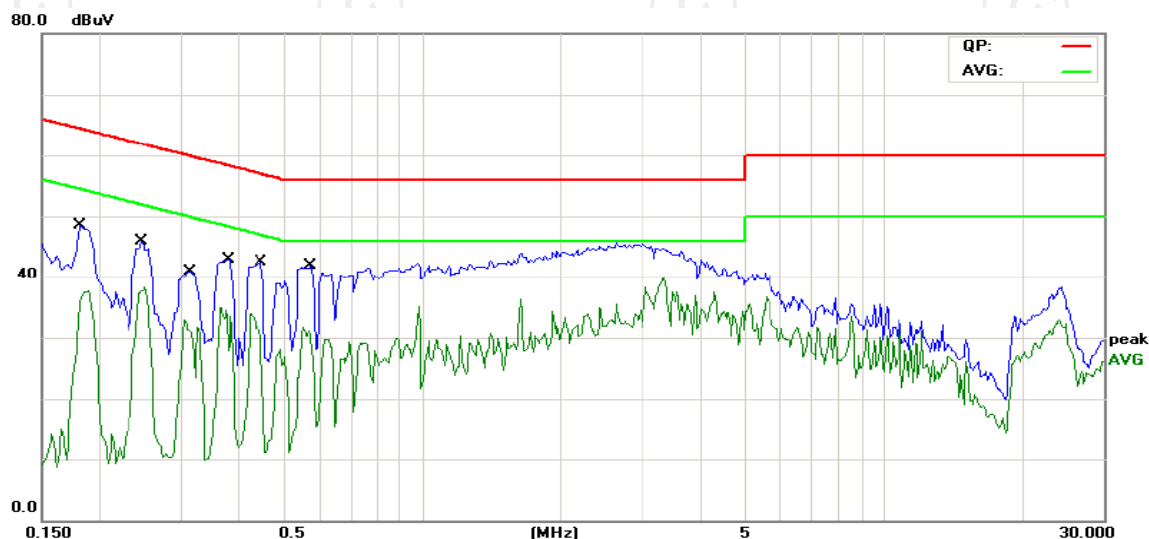
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017
Coax cable	TCT	CE-05	N/A	Aug. 11, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2

Phase: L1

Temperature: 23 (C)

Limit: FCC Part 15B Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.1812	34.25	11.48	45.73	64.43	-18.70	QP	
2		0.1812	24.62	11.48	36.10	54.43	-18.33	AVG	
3		0.2477	30.68	11.45	42.13	61.83	-19.70	QP	
4	*	0.2477	26.95	11.45	38.40	51.83	-13.43	AVG	
5		0.3102	26.22	11.41	37.63	59.96	-22.33	QP	
6		0.3102	20.96	11.41	32.37	49.96	-17.59	AVG	
7		0.3805	29.40	11.37	40.77	58.27	-17.50	QP	
8		0.3805	21.72	11.37	33.09	48.27	-15.18	AVG	
9		0.4469	29.25	11.34	40.59	56.93	-16.34	QP	
10		0.4469	18.49	11.34	29.83	46.93	-17.10	AVG	
11		0.5757	28.71	11.28	39.99	56.00	-16.01	QP	
12		0.5757	16.12	11.28	27.40	46.00	-18.60	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

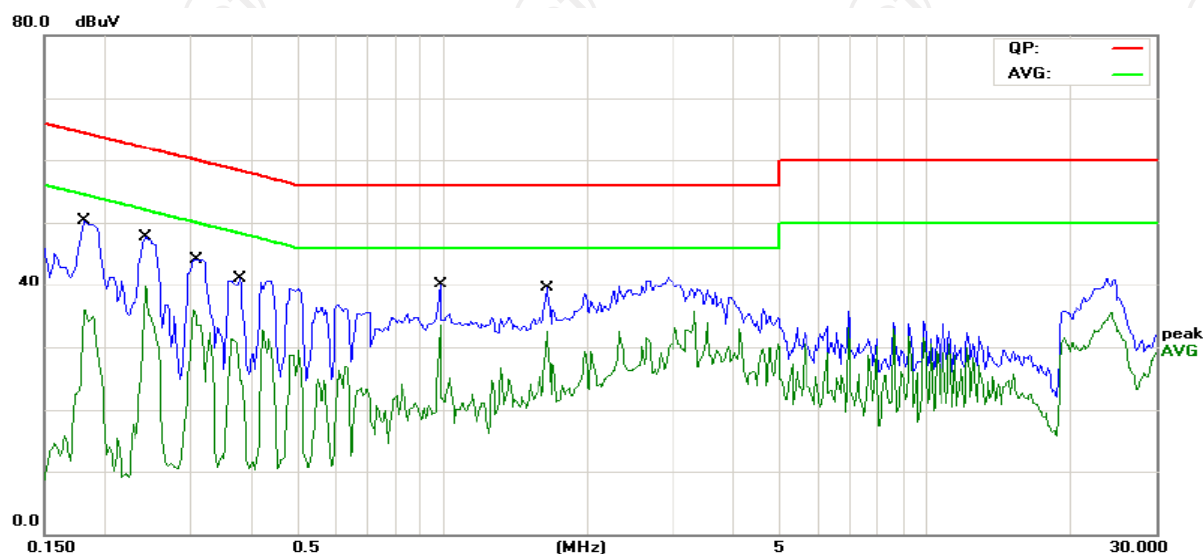
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2

Phase: **N**

Temperature: 23 (C)

Limit: FCC Part 15B Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1812	35.80	11.48	47.28	64.43	-17.15	QP	
2		0.1812	23.91	11.48	35.39	54.43	-19.04	AVG	
3		0.2437	32.77	11.45	44.22	61.97	-17.75	QP	
4		0.2437	23.20	11.45	34.65	51.97	-17.32	AVG	
5		0.3102	28.94	11.41	40.35	59.96	-19.61	QP	
6		0.3102	22.84	11.41	34.25	49.96	-15.71	AVG	
7		0.3805	25.04	11.37	36.41	58.27	-21.86	QP	
8		0.3805	16.30	11.37	27.67	48.27	-20.60	AVG	
9		0.9898	23.29	11.21	34.50	56.00	-21.50	QP	
10	*	0.9898	20.19	11.21	31.40	46.00	-14.60	AVG	
11		1.6500	18.75	11.53	30.28	56.00	-25.72	QP	
12		1.6500	11.69	11.53	23.22	46.00	-22.78	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.2.4. Maximum Conducted (Average) Output Power

6.2.5. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	30dBm
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. 2. The RF output of EUT was connected to the spectrum analyzer 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.
Test Result:	PASS

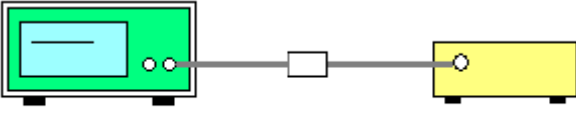
6.2.6. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement Procedure 10.3 Method AVGPS of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 2. The RF output of EUT was connected to the spectrum analyzer 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05. 2. The RF output of EUT was connected to the spectrum analyzer 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. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

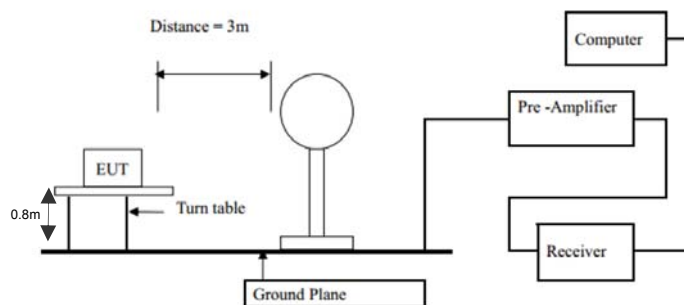
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6. Radiated Spurious Emission Measurement

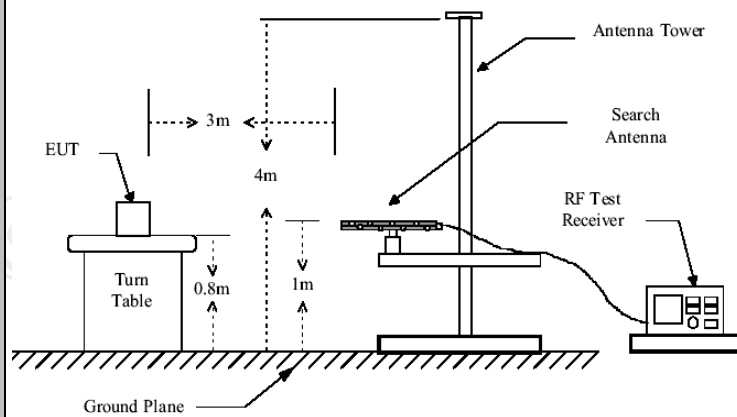
6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10: 2013			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Transmitting mode with modulation			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Remark
	0.009-0.490	2400/F(KHz)	300	Quasi-peak Value
	0.490-1.705	24000/F(KHz)	30	Quasi-peak Value
	1.705-30	30	30	Quasi-peak Value
	30-88	100	3	Quasi-peak Value
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	88-216	150	3	Average
	216-960	200	3	Peak
	Above 960	500	3	
	Above 1GHz	500	3	Average
	Above 1GHz	5000	3	Peak

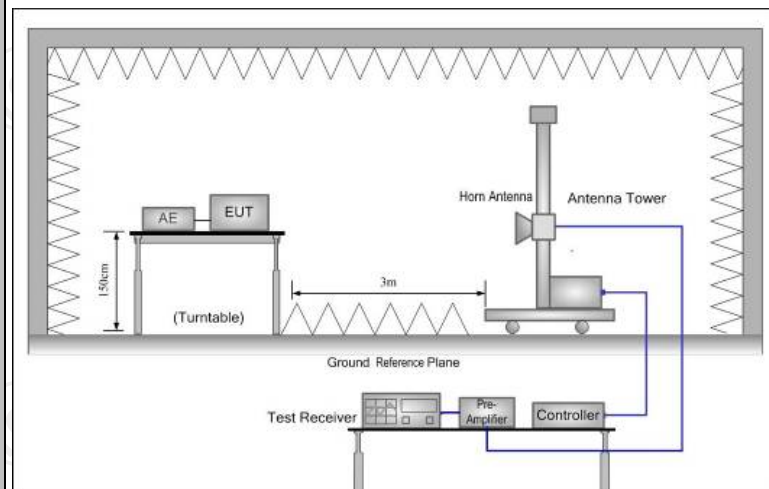
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. 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.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for

	receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. 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. 5. 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.
Test results:	PASS

6.6.2. Test Instruments

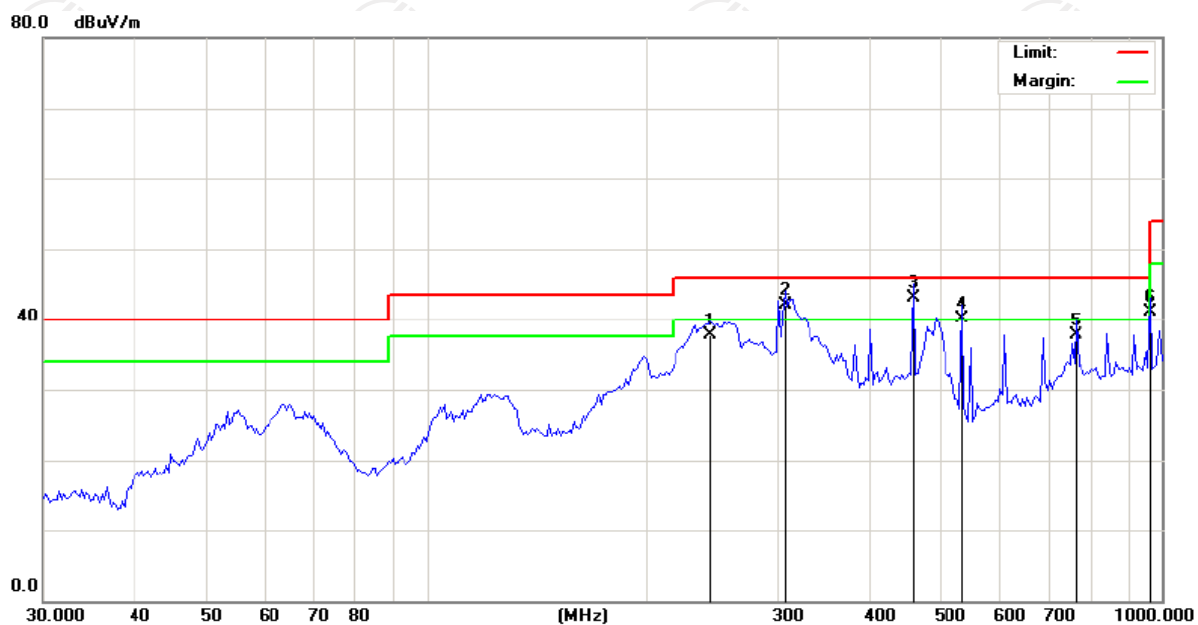
Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable	TCT	RE-low-01	N/A	Aug. 11, 2017
Coax cable	TCT	RE-high-02	N/A	Aug. 11, 2017
Coax cable	TCT	RE-low-03	N/A	Aug. 11, 2017
Coax cable	TCT	RE-High-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	Aug. 12, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6.3. Test Data

Please refer to following diagram for individual
Below 1GHz

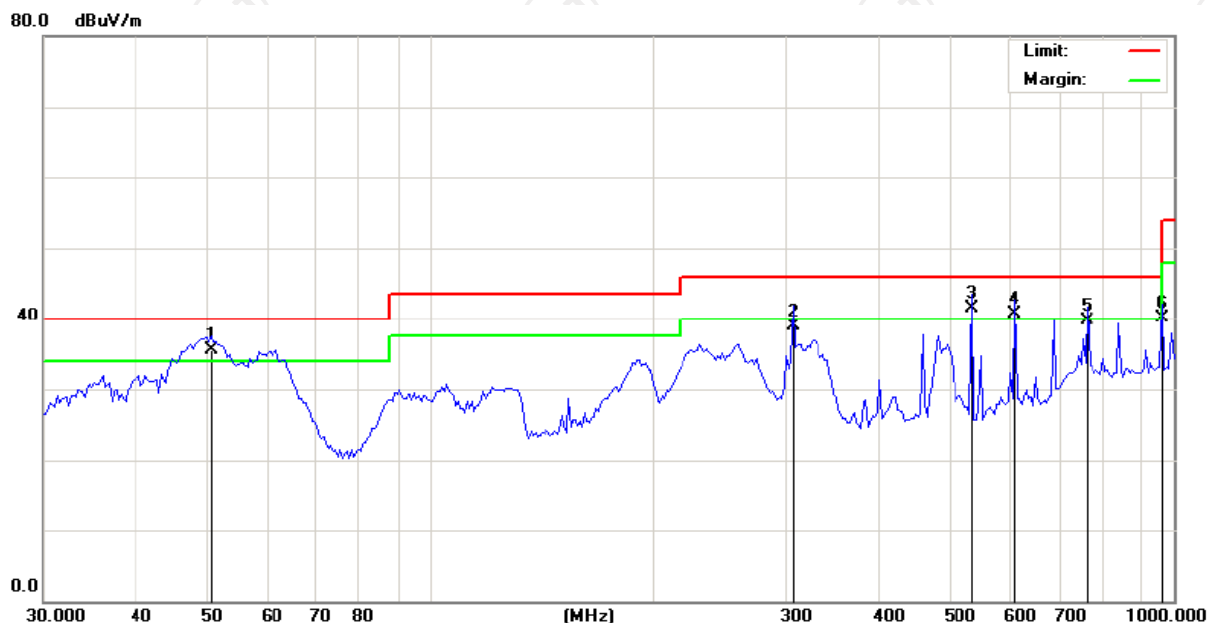
Horizontal:



Site: Polarization: **Horizontal** Temperature: 23
Limit: FCC Part 15B Class B RE_3 m Power: AC 120V/60Hz Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		243.5431	46.37	-8.58	37.79	46.00	-8.21	QP	0	
2	!	307.1051	48.58	-6.50	42.08	46.00	-3.92	QP	0	
3	*	458.3987	46.35	-3.23	43.12	46.00	-2.88	QP	0	
4	!	535.0376	42.60	-2.56	40.04	46.00	-5.96	QP	0	
5		765.6481	31.74	6.06	37.80	46.00	-8.20	QP	0	
6		965.4741	35.65	5.43	41.08	54.00	-12.92	QP	0	

Vertical:



Site: Polarization: **Vertical** Temperature: 23
 Limit: FCC Part 15B Class B RE 3 m Power: AC 120V/60Hz Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	50.4613	45.05	-9.52	35.53	40.00	-4.47	QP	0	
2		307.1051	45.50	-6.50	39.00	46.00	-7.00	QP	0	
3	!	535.0376	43.97	-2.56	41.41	46.00	-4.59	QP	0	
4	!	611.4623	39.76	0.97	40.73	46.00	-5.27	QP	0	
5		765.6481	33.55	6.06	39.61	46.00	-6.39	QP	0	
6		965.4741	34.76	5.43	40.19	54.00	-13.81	QP	0	

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

Test Result of Radiated Spurious at Band edges

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	45.14	-4.20	40.94	74.00	54.00
2377.38	H	47.88	-4.10	43.78	74.00	54.00
2390	H	52.77	-3.94	48.83	74.00	54.00
2310	V	43.83	-4.20	39.63	74.00	54.00
2377.38	V	53.58	-4.10	49.48	74.00	54.00
2390	V	55.43	-3.94	51.49	74.00	54.00

Modulation Type: 802.11b

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	50.83	-3.60	47.23	74.00	54.00
2487.09	H	48.49	-3.50	44.99	74.00	54.00
2500	H	44.45	-3.34	41.11	74.00	54.00
2483.5	V	54.29	-3.60	50.69	74.00	54.00
2487.09	V	47.06	-3.50	43.56	74.00	54.00
2500	V	42.23	-3.34	38.89	74.00	54.00

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	45.05	-4.20	40.85	74.00	54.00
2388.96	H	47.85	-4.10	43.75	74.00	54.00
2390	H	52.79	-3.94	48.85	74.00	54.00
2310	V	43.69	-4.20	39.49	74.00	54.00
2388.96	V	53.42	-4.10	49.32	74.00	54.00
2390	V	55.45	-3.94	51.51	74.00	54.00

Modulation Type: 802.11g

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	43.54	-3.60	39.94	74.00	54.00
2487.59	H	47.39	-3.50	43.89	74.00	54.00
2500	H	44.37	-3.34	41.03	74.00	54.00
2483.5	V	54.33	-3.60	50.73	74.00	54.00
2487.59	V	47.01	-3.50	43.51	74.00	54.00
2500	V	41.99	-3.34	38.65	74.00	54.00

Modulation Type: 802.11n(20MHz)

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	45.26	-4.20	41.06	74.00	54.00
2388.01	H	48.05	-4.10	43.95	74.00	54.00
2390	H	52.73	-3.94	48.79	74.00	54.00
2310	V	43.81	-4.20	39.61	74.00	54.00
2388.01	V	53.59	-4.10	49.49	74.00	54.00
2390	V	55.41	-3.94	51.47	74.00	54.00

Modulation Type: 802.11n(20MHz)

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	43.33	-3.60	39.73	74.00	54.00
2392.55	H	47.22	-3.50	43.72	74.00	54.00
2500	H	44.67	-3.34	41.33	74.00	54.00
2483.5	V	54.01	-3.60	50.41	74.00	54.00
2392.55	V	47.06	-3.50	43.56	74.00	54.00
2500	V	42.23	-3.34	38.89	74.00	54.00

Note:

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.31	---	0.75	51.06	---	74	54	-2.94
7236	H	42.01	---	9.87	51.88	---	74	54	-2.12
---	H	---	---	---	---	---	---	---	---
4824	V	49.49	---	0.75	50.24	---	74	54	-3.76
7236	V	42.47	---	9.87	52.34	---	74	54	-1.66
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.18	---	0.97	50.15	---	74	54	-3.85
7311	H	41.51	---	9.83	51.34	---	74	54	-2.66
---	H	---	---	---	---	---	---	---	---
4874	V	48.99	---	0.97	49.96	---	74	54	-4.04
7311	V	41.45	---	9.83	51.28	---	74	54	-2.72
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	49.26	---	1.18	50.44	---	74	54	-3.56
7386	H	40.51	---	10.07	50.58	---	74	54	-3.42
---	H	---	---	---	---	---	---	---	---
4924	V	49.29	---	1.18	50.47	---	74	54	-3.53
7386	V	39.96	---	10.07	50.03	---	74	54	-3.97
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.12	---	0.75	50.87	---	74	54	-3.13
7236	H	42.34	---	9.87	52.21	---	74	54	-1.79
---	H	---	---	---	---	---	---	---	---
4824	V	49.59	---	0.75	50.34	---	74	54	-3.66
7236	V	42.79	---	9.87	52.66	---	74	54	-1.34
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.38	---	0.97	50.35	---	74	54	-3.65
7311	H	41.78	---	9.83	51.61	---	74	54	-2.39
---	H	---	---	---	---	---	---	---	---
4874	V	49.22	---	0.97	50.19	---	74	54	-3.81
7311	V	41.69	---	9.83	51.52	---	74	54	-2.48
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	49.31	---	1.18	50.49	---	74	54	-3.51
7386	H	39.78	---	10.07	49.85	---	74	54	-4.15
---	H	---	---	---	---	---	---	---	---
4924	V	49.45	---	1.18	50.63	---	74	54	-3.37
7386	V	39.87	---	10.07	49.94	---	74	54	-4.06
---	V	---	---	---	---	---	---	---	---

Note:

- Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
- Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.31	---	0.75	51.06	---	74	54	-2.94
7236	H	41.97	---	9.87	51.84	---	74	54	-2.16
---	H	---	---	---	---	---	---	---	---
4824	V	49.69	---	0.75	50.44	---	74	54	-3.56
7236	V	42.55	---	9.87	52.42	---	74	54	-1.58
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.17	---	0.97	50.14	---	74	54	-3.86
7311	H	41.95	---	9.83	51.78	---	74	54	-2.22
---	H	---	---	---	---	---	---	---	---
4874	V	48.64	---	0.97	49.61	---	74	54	-4.39
7311	V	41.98	---	9.83	51.81	---	74	54	-2.19
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	48.75	---	1.18	49.93	---	74	54	-4.07
7386	H	40.35	---	10.07	50.42	---	74	54	-3.58
---	H	---	---	---	---	---	---	---	---
4924	V	48.46	---	1.18	49.64	---	74	54	-4.36
7386	V	40.39	---	10.07	50.46	---	74	54	-3.54
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

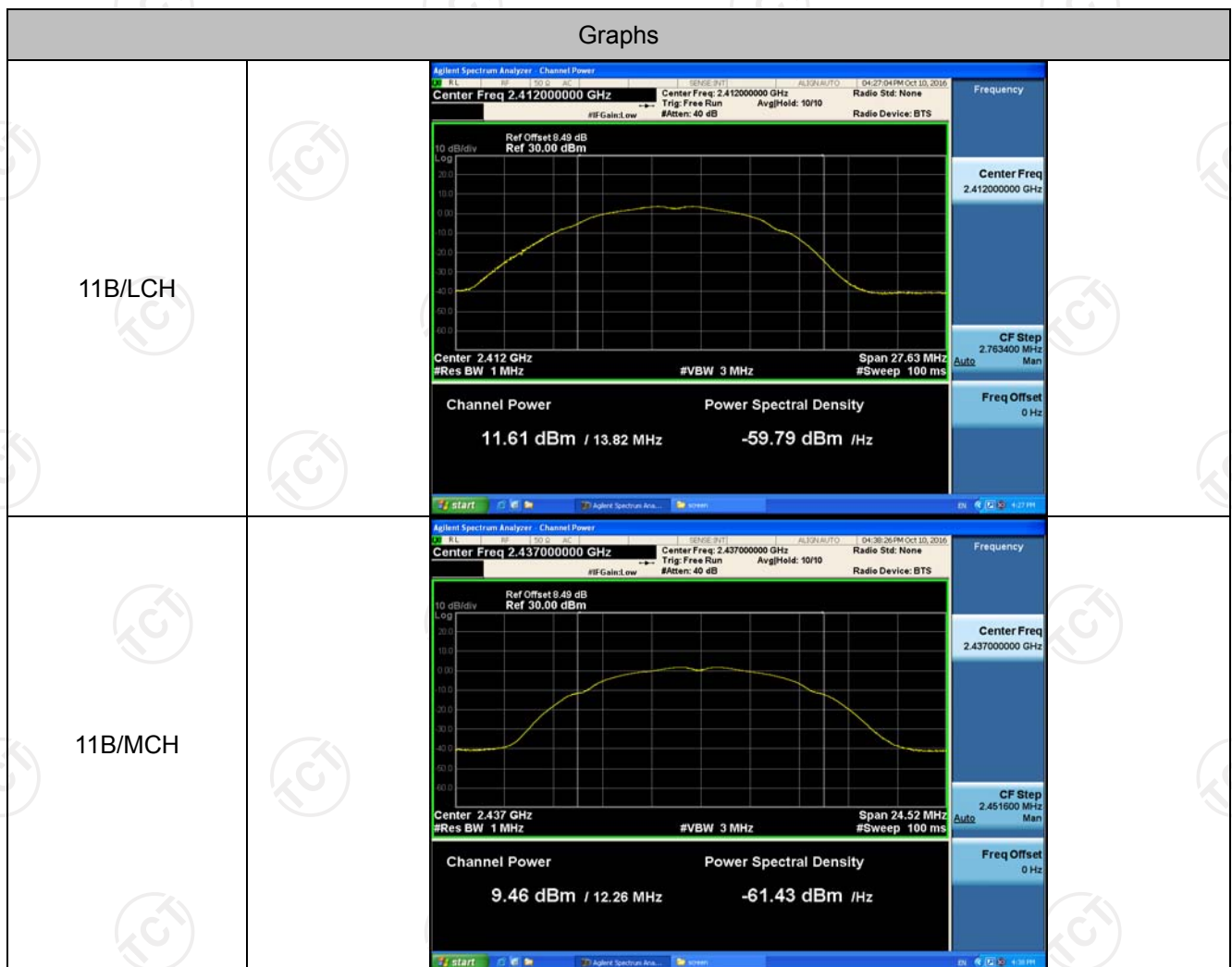
Appendix A: Test Result of Conducted Test

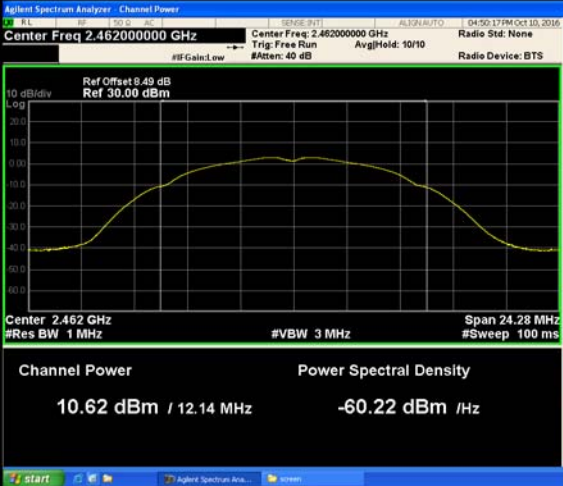
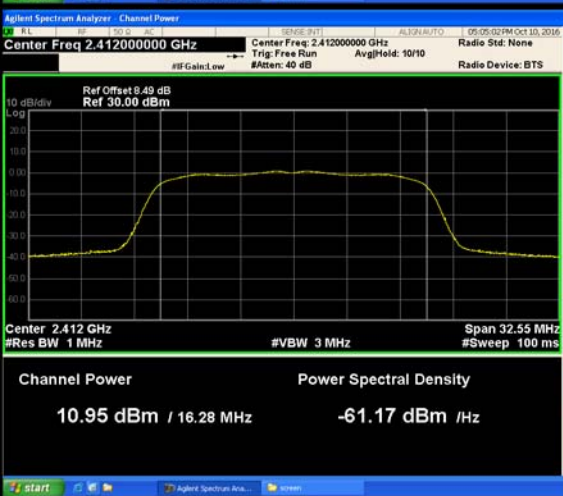
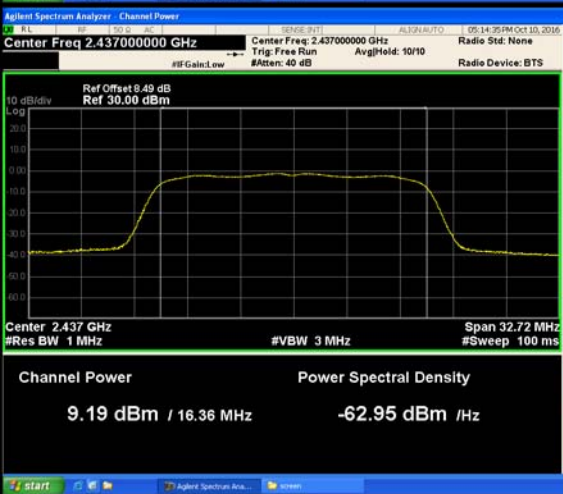
Conducted Average Output Power

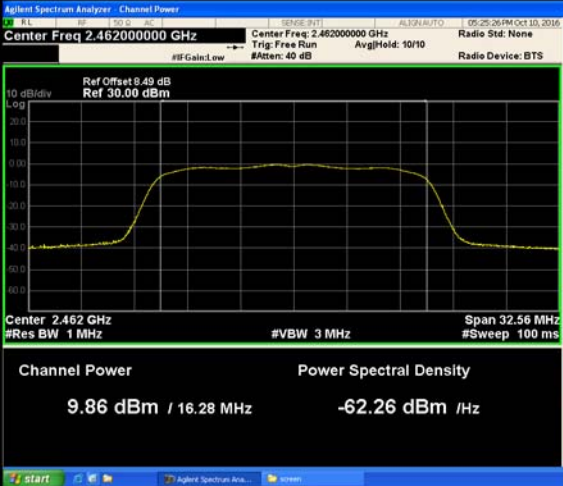
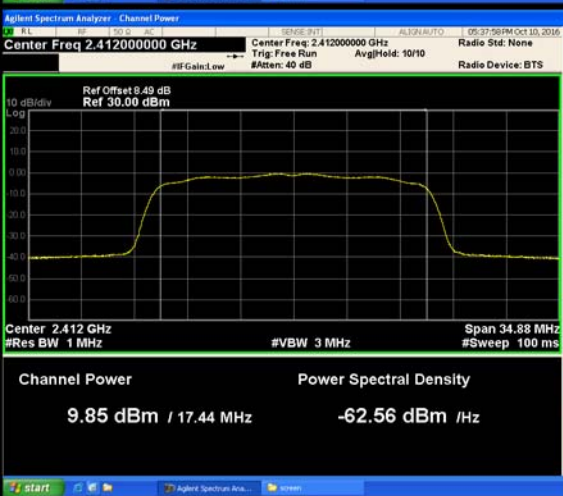
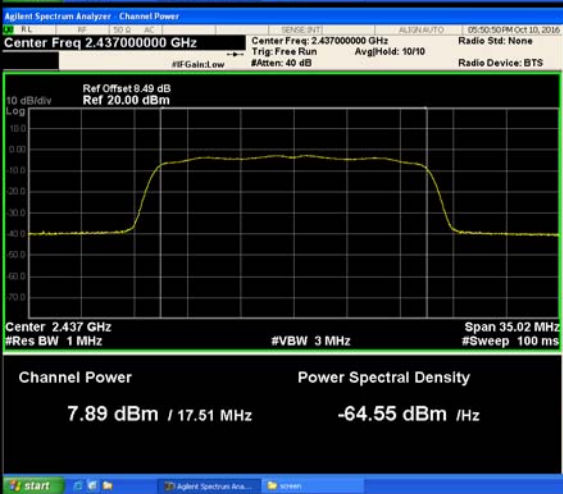
Result Table

Mode	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11B	LCH	11.61	11.61	PASS
11B	MCH	9.46	9.46	PASS
11B	HCH	10.62	10.62	PASS
11G	LCH	10.95	10.95	PASS
11G	MCH	9.19	9.19	PASS
11G	HCH	9.86	9.86	PASS
11N20SISO	LCH	9.85	9.85	PASS
11N20SISO	MCH	7.89	7.89	PASS
11N20SISO	HCH	8.67	8.67	PASS

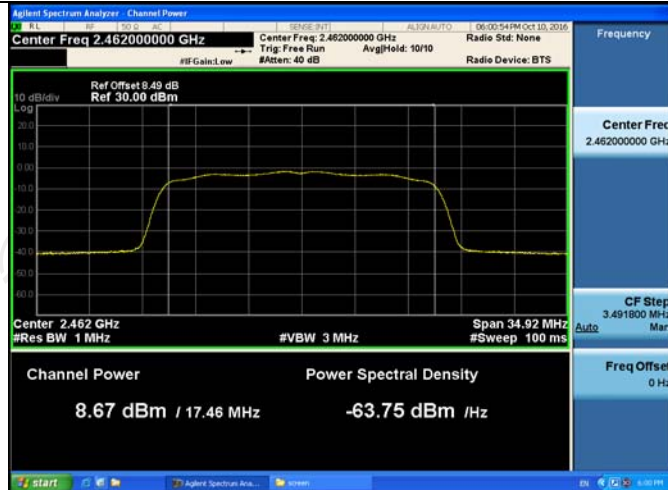
Test Graph



11B/HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Ref Offset 8.49 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 24.28 MHz #Sweep 100 ms Channel Power 10.62 dBm / 12.14 MHz Power Spectral Density -60.22 dBm / Hz Center Freq 2.462000000 GHz CF Step 2.427800 MHz Freq Offset 0 Hz	
11G/LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset 8.49 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 32.55 MHz #Sweep 100 ms Channel Power 10.95 dBm / 16.28 MHz Power Spectral Density -61.17 dBm / Hz Center Freq 2.412000000 GHz CF Step 3.255000 MHz Freq Offset 0 Hz	
11G/MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 8.49 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 32.72 MHz #Sweep 100 ms Channel Power 9.19 dBm / 16.36 MHz Power Spectral Density -62.95 dBm / Hz Center Freq 2.437000000 GHz CF Step 3.272200 MHz Freq Offset 0 Hz	

11G/HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Radio Std: None Ref Offset: 8.49 dB Ref: 30.00 dBm Center 2.462 GHz Span 32.56 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 100 ms Channel Power 9.86 dBm / 16.28 MHz Power Spectral Density -62.26 dBm / Hz	Frequency Center Freq 2.462000000 GHz CF Step 3.255800 MHz Freq Offset 0 Hz
11N20SISO/LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Radio Std: None Ref Offset: 8.49 dB Ref: 30.00 dBm Center 2.412 GHz Span 34.88 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 100 ms Channel Power 9.85 dBm / 17.44 MHz Power Spectral Density -62.56 dBm / Hz	Frequency Center Freq 2.412000000 GHz CF Step 3.488000 MHz Freq Offset 0 Hz
11N20SISO/MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None Ref Offset: 8.49 dB Ref: 20.00 dBm Center 2.437 GHz Span 35.02 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 100 ms Channel Power 7.89 dBm / 17.51 MHz Power Spectral Density -64.55 dBm / Hz	Frequency Center Freq 2.437000000 GHz CF Step 3.502200 MHz Freq Offset 0 Hz

11N20SISO/HCH

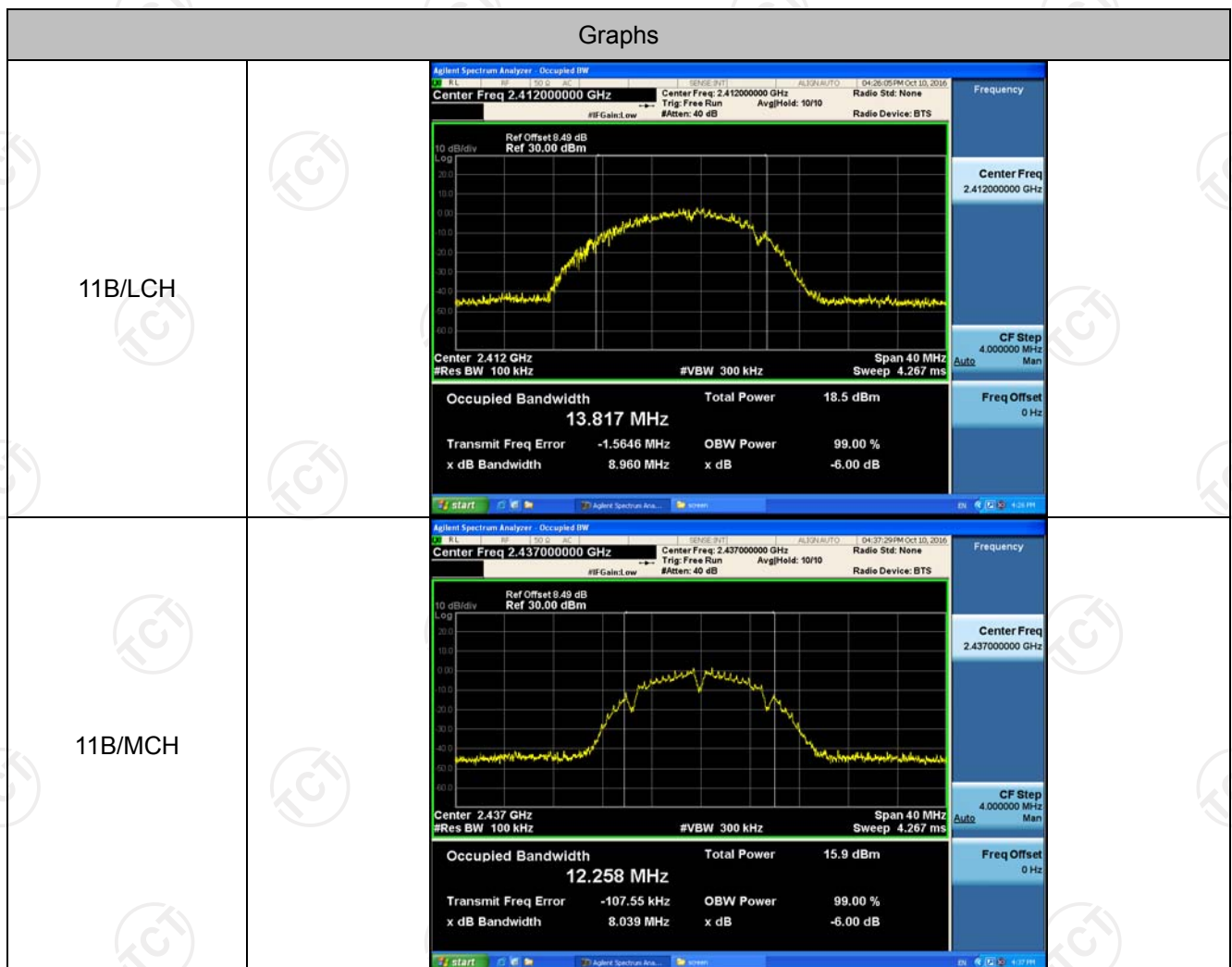


6dB Occupied Bandwidth

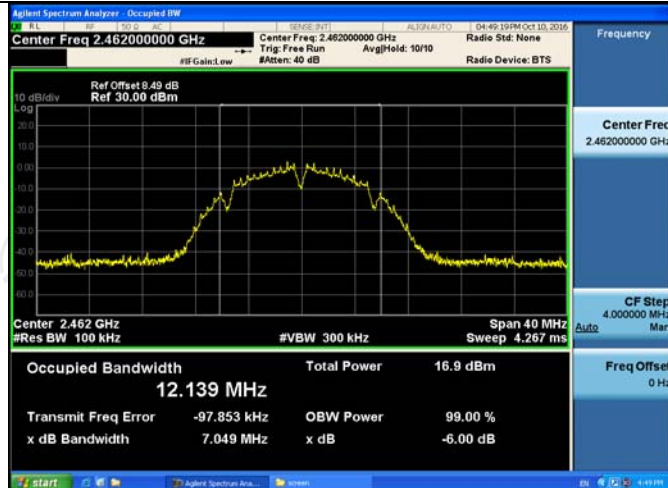
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	8.960	13.817	PASS
11B	MCH	8.039	12.258	PASS
11B	HCH	7.049	12.139	PASS
11G	LCH	15.08	16.275	PASS
11G	MCH	14.39	16.361	PASS
11G	HCH	15.06	16.279	PASS
11N20SISO	LCH	13.80	17.440	PASS
11N20SISO	MCH	16.03	17.511	PASS
11N20SISO	HCH	15.01	17.459	PASS

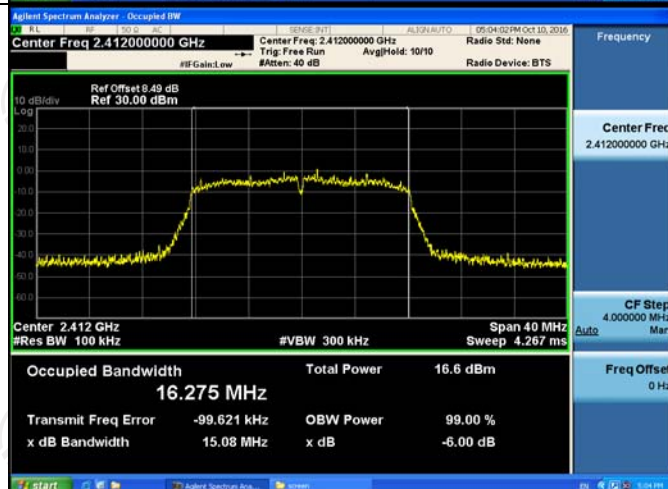
Test Graph



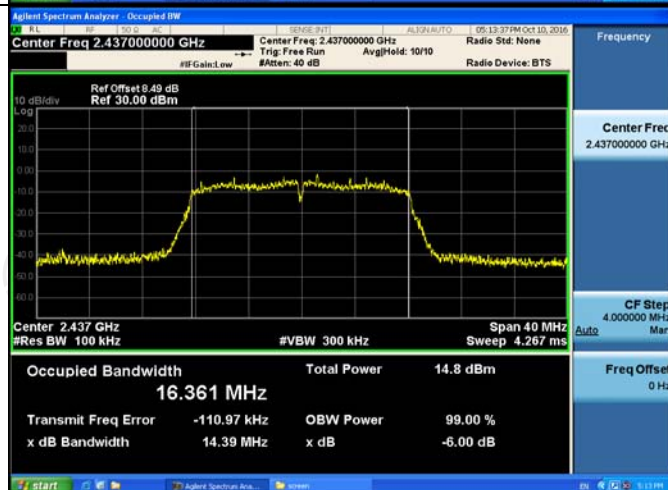
11B/HCH

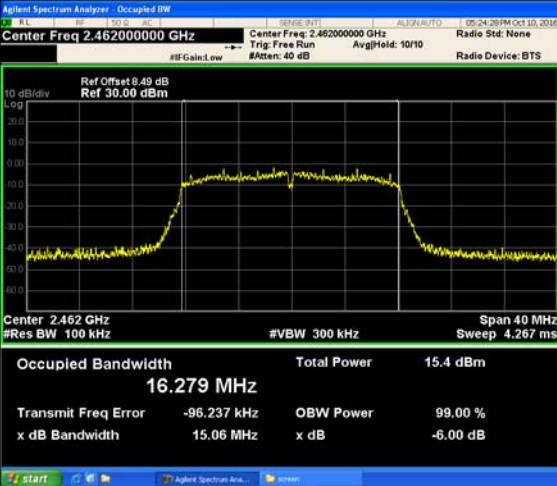
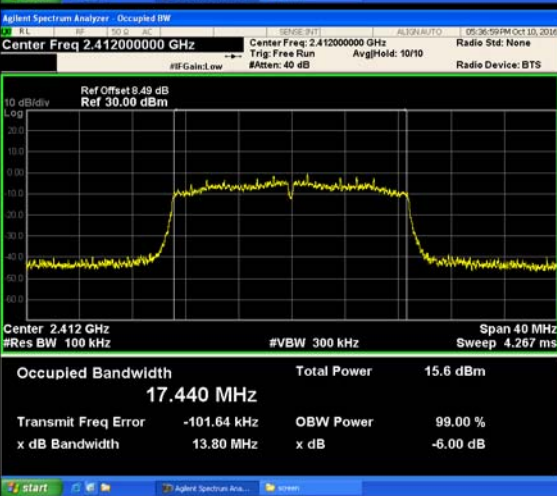
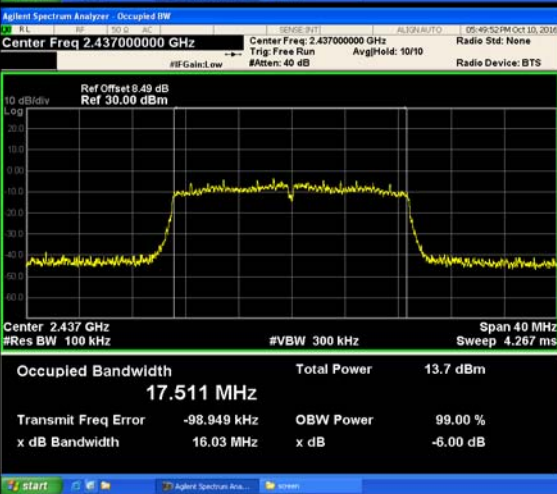


11G/LCH

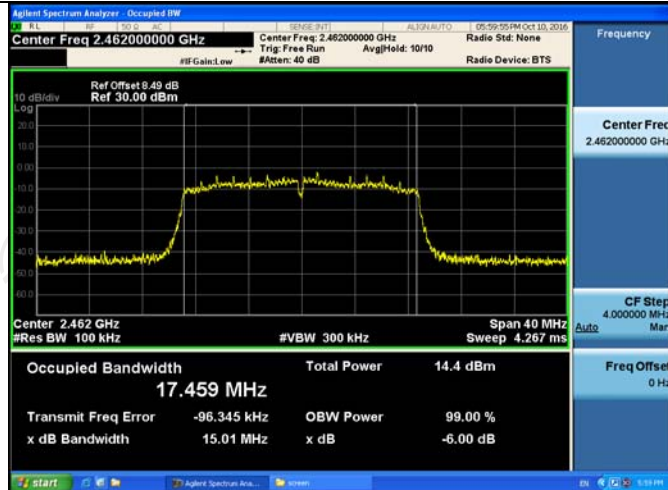


11G/MCH



11G/HCH		Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/LCH		Frequency Center Freq 2.412000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/MCH		Frequency Center Freq 2.437000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

11N20SISO/HCH



Band-edge for RF Conducted Emissions

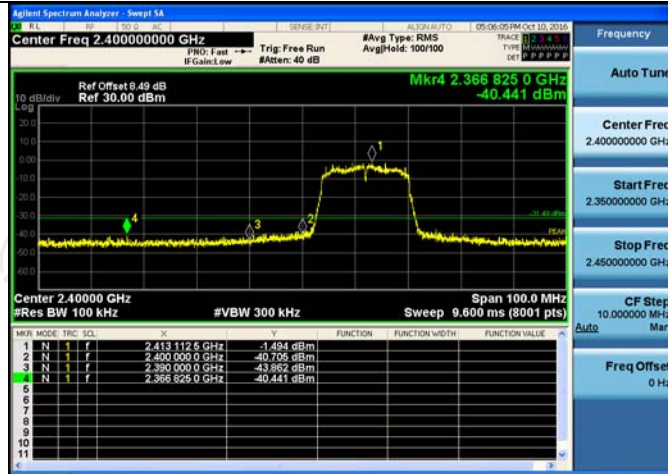
Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.610	-41.429	-26.39	PASS
11B	HCH	3.136	-41.581	-26.86	PASS
11G	LCH	-1.494	-40.441	-31.49	PASS
11G	HCH	-2.095	-40.796	-32.1	PASS
11N20SISO	LCH	-2.213	-41.290	-32.21	PASS
11N20SISO	HCH	-1.641	-41.915	-31.64	PASS

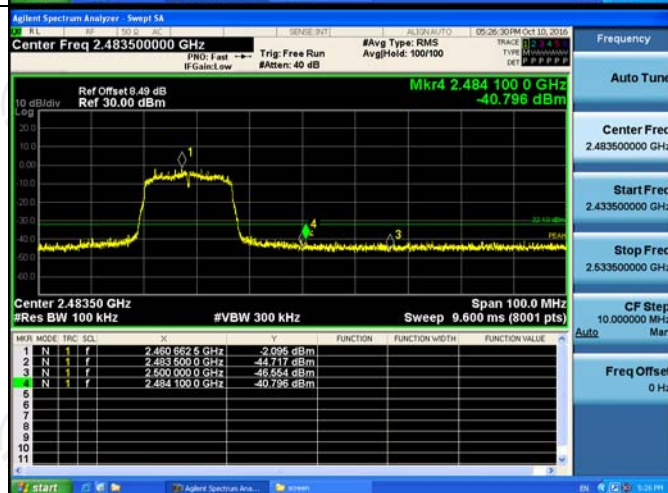
Test Graph



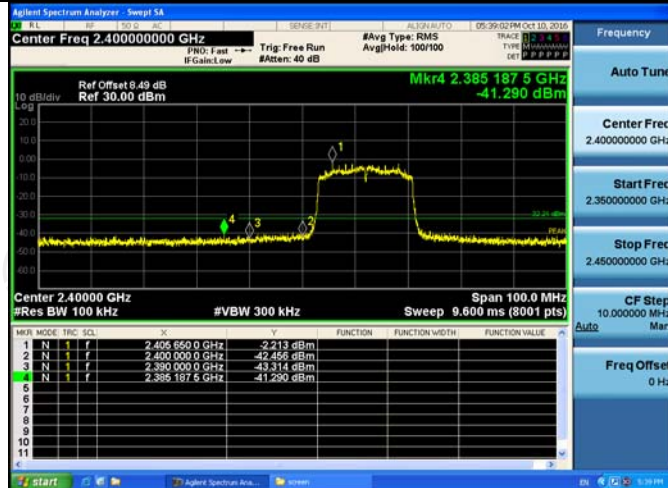
11G/LCH



11G/HCH



11N20SISO/LCH



11N20SISO/HCH

