

FCC Test Report

FCC ID : MXF-NECNP04LM1

Equipment : Wireless LAN Unit

Model No. : NP04LM1

Brand Name : NEC

Applicant : Gemtek Technology Co., Ltd.

Address : No. 15-1 Zhanghua Road, Hsinchu Industrial

Park, Hukou, Hsinchu, Taiwan, 30352

Standard : 47 CFR FCC Part 15.247

Received Date : Feb. 10, 2014

Tested Date : Feb. 14 ~ Feb. 24, 2014

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA

TAF

Testing Laboratory

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Release Record

Report No.	Version	Description	Issued Date
FR421001AC	Rev. 01	Initial issue	Mar. 27, 2014

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.158MHz 48.75 (Margin -6.81dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2386.00MHz 52.93 (Margin -1.07dB) - AV	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11b: 23.91 11g: 25.83 HT20: 28.06 HT40: 27.79	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

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1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS		
2400-2483.5	b	2412-2462	1-11 [11]	1 NOTE 4	1-11 Mbps		
2400-2483.5	g	2412-2462	1-11 [11]	1 NOTE 4	6-54 Mbps		
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1 NOTE 4	MCS 0-7		
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 8-15		
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1 NOTE 4	MCS 0-7		
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 8-15		

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.

Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.

Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 4: 802.11b/g/n supports diversity function.

Note 5: 802.11n support 1Tx or 2Tx. In this test report, 2Tx function had been chosen and only its data was record in this test report since conducted power of single TX chain is same under 1Tx and 2Tx.

1.1.2 Antenna Details

Ant. No.	Tumo	C	Connector				
	Туре	2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850	Connector
1	PCB	0.34	-2.8	-2.72	-1.29	-0.19	
2	PCB	1.15	-0.58	-0.45	3.24	1.78	

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host
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1.1.4 Accessories

N/A

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1.1.5 Channel List

Frequency	band (MHz)	2400~	2483.5	
802.11 b /	g / n HT20	802.11n HT40		
Channel	Channel Frequency(MHz)		Frequency(MHz)	
1	2412	3	2422	
2	2417	4	2427	
3	2422	5	2432	
4	2427	6	2437	
5	2432	7	2442	
6	2437	8	2447	
7	2442	9	2452	
8	2447			
9	2452			
10	2457			
11	2462			

1.1.6 Test Tool and Duty Cycle

Test Tool	Realtek 11ac 8812A USB WLAN MP Diagnostic Program, Version: 0.0059.20130716				
	Mode	Duty cycle (%)	Duty factor (dB)		
	11b-1Tx	100.00%	0.00		
	11g-1Tx	100.00%	0.00		
Duty Cycle and Duty Factor	HT20-1Tx	100.00%	0.00		
	HT40-1Tx	100.00%	0.00		
	HT20-2Tx	100.00%	0.00		
	HT40-2Tx	100.00%	0.00		

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1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11b-1Tx	2412	52
11b-1Tx	2437	54
11b-1Tx	2462	52
11g-1Tx	2412	51
11g-1Tx	2437	63
11g-1Tx	2462	51
HT20-2Tx	2412	57/54
HT20-2Tx	2437	63/59
HT20-2Tx	2462	60/55
HT40-2Tx	2422	56/52
HT40-2Tx	2437	62/58
HT40-2Tx	2452	57/52

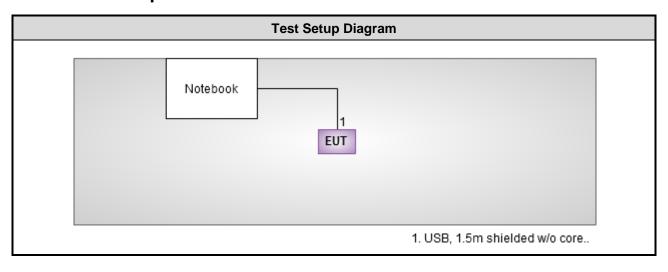
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1.2 Local Support Equipment List

Support Equipment List						
No. Equipment Brand Model S/N FCC ID Signal cable / Length (Signal cable / Length (m)	
1	Notebook	DELL	E6430	654RWW1	DoC	USB, 1.5m shielded w/o core.

1.3 Test Setup Chart



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1.4 The Equipment List

Test Item	Conducted Emission						
Test Site	Conduction room 1 / (CO01-WS)						
Instrument	ment Manufacturer Model No. Serial No. Calibration Date Calibration Until						
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014		
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014		
RF Cable-CON Woken CFD200-NL CFD200-NL-001 Apr. 24, 2013 Apr. 23, 2014							
Note: Calibration Interval of instruments listed above is one year.							

Test Item	Radiated Emission	Radiated Emission						
Test Site	966 chamber1 / (03Cl	H01-WS)						
Instrument	Manufacturer Model No. Serial No. Calibration Date Calibration Until							
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015			
Receiver	R&S	ESR3	101658	Jan. 10, 2014	Jan. 09, 2015			
Bilog Antenna	ScHwarzbeck	VULB9168	VULB9168-522	Jan. 02, 2014	Jan. 01, 2015			
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015			
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014			
Preamplifier	Burgeon	BPA-530	SN:100219	Nov. 22, 2013	Nov. 21, 2014			
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014			
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014			
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014			
Note: Calibration Inter	rval of instruments listed	d above is one year.						

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014				
Preamplifier EM		EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2014				
Note: Calibration Interval of instruments listed above is two year.									

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Test Item	RF Conducted						
Test Site	(TH01-WS)						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until		
Spectrum Analyzer	R&S	FSV40	101499	Feb. 08, 2014	Feb. 07, 2015		
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014		
Power Sensor	Anritsu	MA2411B	1207366	Oct. 24, 2013	Oct. 23, 2014		
Note: Calibration Interval of instruments listed above is one year.							

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty							
Parameters	Uncertainty						
Bandwidth	±35.286 Hz						
Conducted power	±0.536 dB						
Frequency error	±35.286 Hz						
Temperature	±0.3 °C						
Conducted emission	±2.946 dB						
AC conducted emission	±2.43 dB						
Radiated emission	±2.49 dB						

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	19°C / 65%	Skys Huang
Radiated Emissions	03CH01-WS	19-20°C / 62-64%	Haru Yang Brad Wu
RF Conducted	TH01-WS	21°C / 61%	Felix Sung

FCC site registration No.: 657002IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT20	2437	MCS 8	2Tx
Radiated Emissions ≤1GHz	HT20	2437	MCS 8	2Tx
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	1Tx / chain 0
Fundamental Emission Output Power	11g	2412 / 2437 / 2462	6 Mbps	1Tx / chain 0
6dB bandwidth	HT20	2412 / 2437 / 2462	MCS 8	2Tx
Power spectral density	HT40	2422 / 2437 / 2452	MCS 8	2Tx

NOTE:

- 1. The device supports diversity function that listed as below:
 - a.) 802.11b/g, chain 0 or chain 1.
- After pre-testing, chain 0 has the worst emission value, therefore the following test results came out from this.
- 2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

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3 Transmitter Test Results

3.1 Conducted Emissions

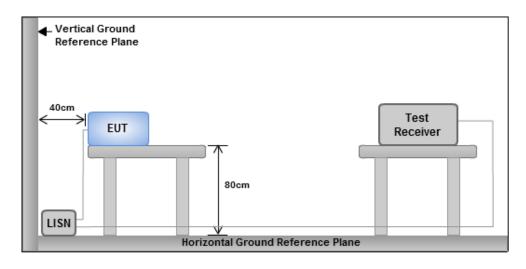
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit							
Frequency Emission (MHz)	Quasi-Peak	Average					
0.15-0.5	66 - 56 *	56 - 46 *					
0.5-5	56	46					
5-30	60	50					
Note 1: * Decreases with the logarithm of the frequency.							

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup



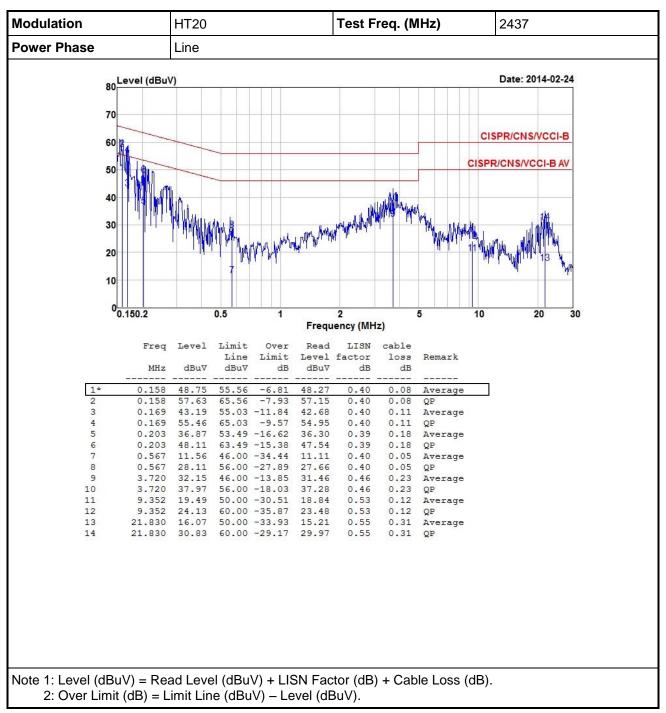
Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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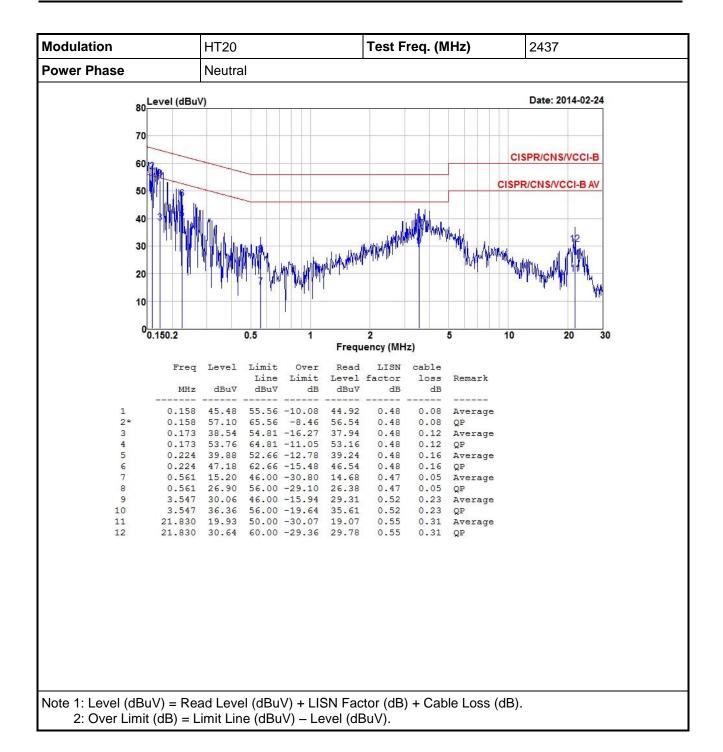


3.1.4 Test Result of Conducted Emissions



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3.2 6dB and Occupied Bandwidth

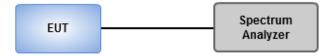
3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup

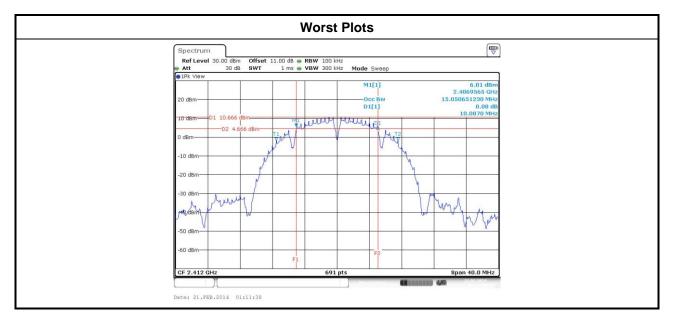


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3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation	N	Eron (MU=)			Limit (ItU=)		
Mode	N _{TX}	Freq. (MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Limit (kHz)
11b	1	2412	10.09				500
11b	1	2437	10.09				500
11b	1	2462	10.09				500
11g	1	2412	16.58				500
11g	1	2437	16.52				500
11g	1	2462	16.58				500
HT20	2	2412	17.80	17.74			500
HT20	2	2437	17.68	17.68			500
HT20	2	2462	17.80	17.68			500
HT40	2	2422	36.52	36.52			500
HT40	2	2437	36.52	36.41			500
HT40	2	2452	36.52	32.64			500



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Modulation	l N	Freq.	99% Occupied Bandwidth (MHz)				
Mode	IV-V		Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	15.09				
11b	1	2437	15.16				
11b	1	2462	15.16				
11g	1	2412	16.79				
11g	1	2437	17.40				
11g	1	2462	16.82				
HT20	2	2412	17.87	17.87			
HT20	2	2437	17.95	17.91			
HT20	2	2462	17.91	17.84			
HT40	2	2422	37.25	36.66	36.66		
HT40	2	2437	37.12	36.66			
HT40	2	2452	37.05	36.73			



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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Cor	duct	ed power shall not exceed 1Watt.
\boxtimes	Ante	enna gain <= 6dBi, no any corresponding reduction is in output power limit.
	Ante	enna gain > 6dBi
		Non Fixed, point to point operations. The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
		Fixed, point to point operations Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.
		Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

\boxtimes	Maximum	Peak	Conducted	Output	Power
-------------	---------	------	-----------	--------	-------

- 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
- 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
- 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

Nower meter

- A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Output Power (For reference only)

Nower meter

 A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



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3.3.4 Test Result of Maximum Output Power

Modulation Mode	N _{TX}	Freq.	Peak conducted output power (dBm)			• •		Total Power	Limit
Wiode		(IVITIZ)	Chain 0	Chain 1	Chain 2	Chain 3	(mW)	(dBm)	(dBm)
11b	1	2412	23.54				225.944	23.54	30
11b	1	2437	23.91				246.037	23.91	30
11b	1	2462	23.26				211.836	23.26	30
11g	1	2412	24.95				312.608	24.95	30
11g	1	2437	25.83				382.825	25.83	30
11g	1	2462	24.72				296.483	24.72	30
HT20	2	2412	24.12	24.91			567.968	27.54	30
HT20	2	2437	24.46	25.56			639.004	28.06	30
HT20	2	2462	24.35	25.02			589.958	27.71	30
HT40	2	2422	23.51	23.04			425.761	26.29	30
HT40	2	2437	24.13	25.34			600.801	27.79	30
HT40	2	2452	23.78	23.11			443.426	26.47	30

Modulation Mode	N _{TX}	Freq.	Conduc		age) outpu Bm)	it power	Total Power	Total Power	r Limit	
Wiode		(IVITIZ)	Chain 0	Chain 1	Chain 2	Chain 3	(mW)	(dBm)	(ubili)	
11b	1	2412	21.45				139.637	21.45	30	
11b	1	2437	21.87				153.815	21.87	30	
11b	1	2462	21.21				132.130	21.21	30	
11g	1	2412	16.27				42.364	16.27	30	
11g	1	2437	21.01				126.183	21.01	30	
11g	1	2462	15.91				38.994	15.91	30	
HT20	2	2412	17.16	16.89			100.865	20.04	30	
HT20	2	2437	18.61	18.63			145.556	21.63	30	
HT20	2	2462	17.88	17.21			113.978	20.57	30	
HT40	2	2422	16.14	15.51			76.678	18.85	30	
HT40	2	2437	17.61	17.74			117.106	20.69	30	
HT40	2	2452	16.25	15.58			78.311	18.94	30	

Note: Conducted average output power is for reference only.

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3.4 Power Spectral Density

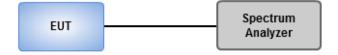
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - Set the RBW = 3kHz, VBW = 10kHz.
 - Detector = Peak, Sweep time = auto couple.
 - 3. Trace mode = max hold, allow trace to fully stabilize.
 - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - Set the RBW = 100kHz, VBW = 300 kHz.
 - 2. Detector = RMS, Sweep time = auto couple.
 - 3. Set the sweep time to: ≥ 10 x (number of measurement points in sweep) x (maximum data rate per stream).
 - 4. Perform the measurement over a single sweep.
 - 5. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup



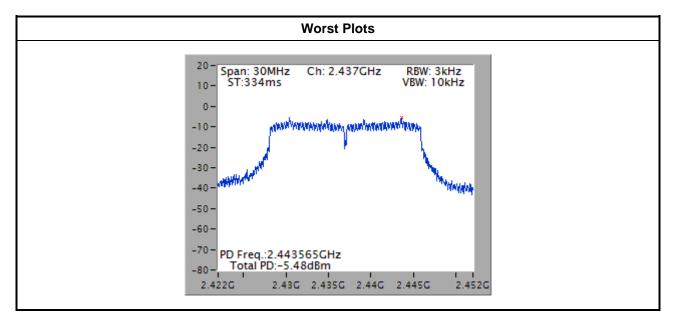
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3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	1	2412	-9.02	8
11b	1	2437	-8.70	8
11b	1	2462	-9.55	8
11g	1	2412	-13.43	8
11g	1	2437	-8.34	8
11g	1	2462	-13.15	8
HT20	2	2412	-7.30	8
HT20	2	2437	-5.48	8
HT20	2	2462	-7.31	8
HT40	2	2422	-12.40	8
HT40	2	2437	-9.55	8
HT40	2	2452	-11.24	8

Note: Test result for 2 TX mode is bin-by-bin summing measured value of each TX port.



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3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit								
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)					
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300					
0.490~1.705	24000/F(kHz)	33.8 - 23	30					
1.705~30.0	30	29	30					
30~88	100	40	3					
88~216	150	43.5	3					
216~960	200	46	3					
Above 960	500	54	3					

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

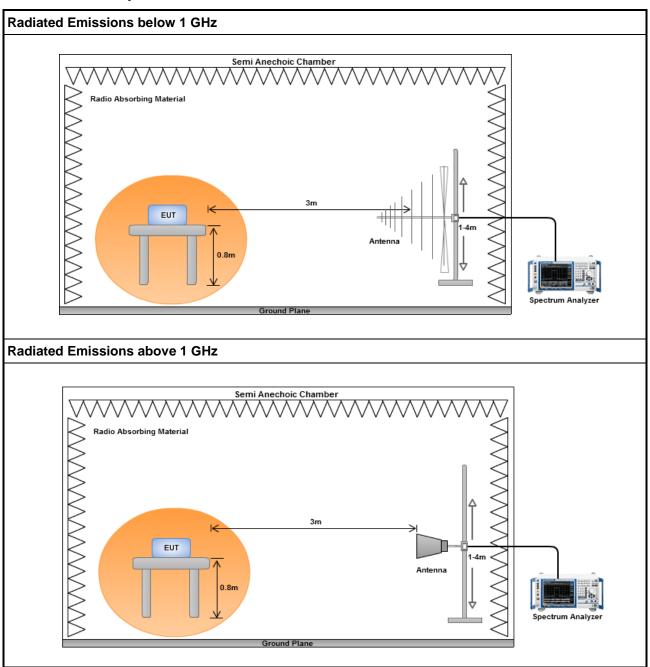
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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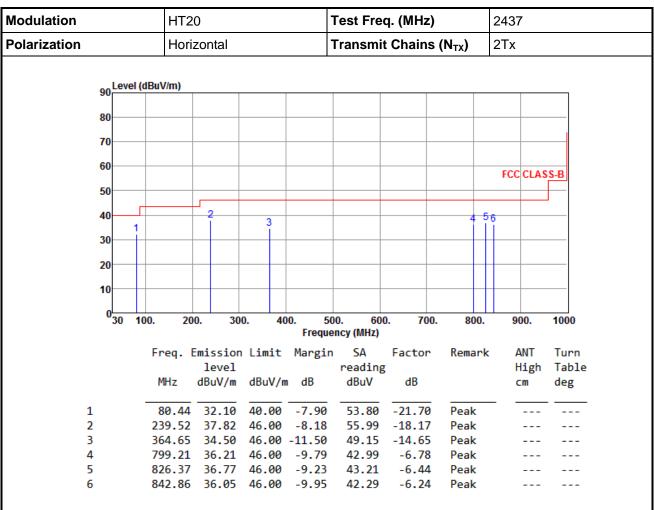
3.5.3 Test Setup



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3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

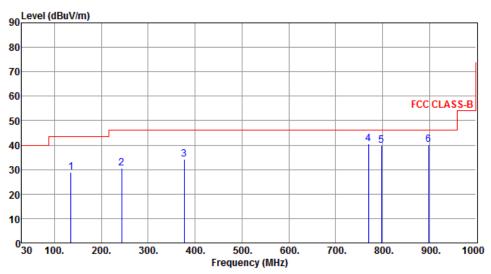
Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq.	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV		Remark	ANT High	Turn Table deg
	PHIZ	ubuv/III	ubuv/III	ub	ubuv	ub		cm	ueg
1	134.76	28.97	43.50	-14.53	46.76	-17.79	Peak		
2	243.40	30.40	46.00	-15.60	48.47	-18.07	Peak		
3	377.26	34.35	46.00	-11.65	48.64	-14.29	Peak		
4	770.11	40.46	46.00	-5.54	47.52	-7.06	Peak		
5	798.24	39.80	46.00	-6.20	46.59	-6.79	Peak		
6	898.15	40.35	46.00	-5.65	45.86	-5.51	QP		

*Factor includes antenna factor, cable loss and amplifier gain

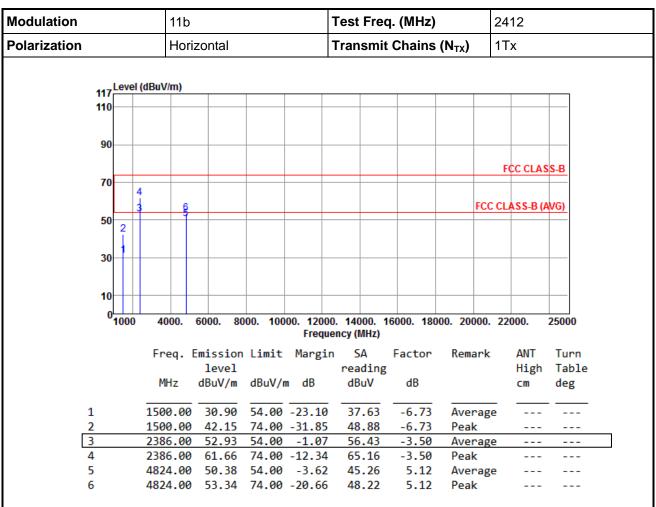
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

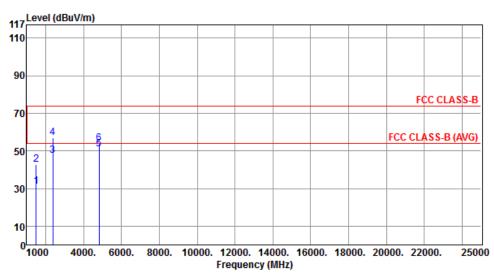
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



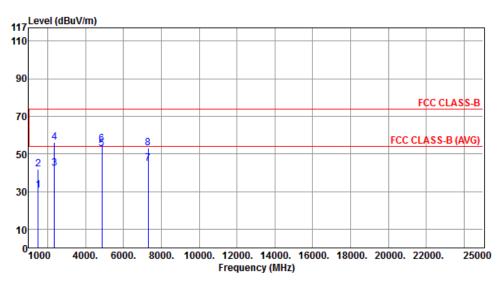
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	1500.00	31.25	54.00	-22.75	37.98	-6.73	Average		
2	1500.00	42.95	74.00	-31.05	49.68	-6.73	Peak		
3	2386.00	47.65	54.00	-6.35	51.15	-3.50	Average		
4	2386.00	57.01	74.00	-16.99	60.51	-3.50	Peak		
5	4824.00	50.86	54.00	-3.14	45.74	5.12	Average		
6	4824.00	53.89	74.00	-20.11	48.77	5.12	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



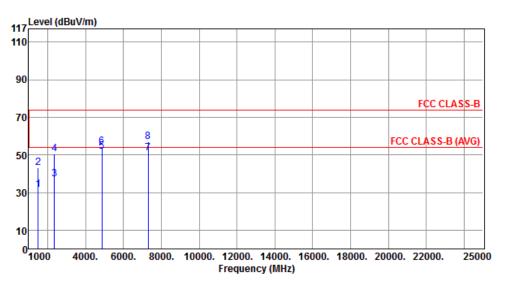
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	30.86	54.00	-23.14	37.59	-6.73	Average		
2	1500.00	42.01	74.00	-31.99	48.74	-6.73	Peak		
3	2360.00	42.46	54.00	-11.54	46.07	-3.61	Average		
4	2360.00	55.91	74.00	-18.09	59.52	-3.61	Peak		
5	4874.00	52.77	54.00	-1.23	47.55	5.22	Average		
6	4874.00	55.28	74.00	-18.72	50.06	5.22	Peak		
7	7311.00	44.86	54.00	-9.14	35.43	9.43	Average		
8	7311.00	53.10	74.00	-20.90	43.67	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



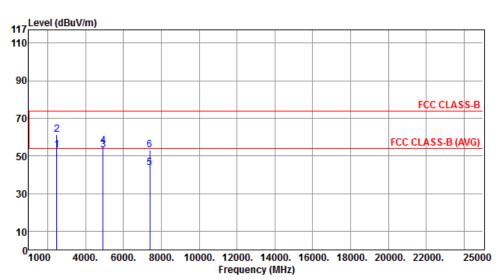
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	31.48	54.00	-22.52	38.21	-6.73	Average		
2	1500.00	43.10	74.00	-30.90	49.83	-6.73	Peak		
3	2360.00	37.09	54.00	-16.91	40.70	-3.61	Average		
4	2360.00	50.32	74.00	-23.68	53.93	-3.61	Peak		
5	4874.00	51.75	54.00	-2.25	46.53	5.22	Average		
6	4874.00	54.43	74.00	-19.57	49.21	5.22	Peak		
7	7311.00	50.97	54.00	-3.03	41.54	9.43	Average		
8	7311.00	56.86	74.00	-17.14	47.43	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



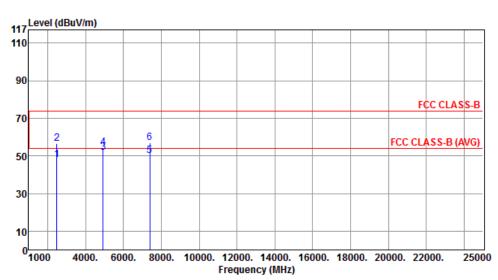
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	52.92	<u></u>	1 00		- 2 00	<u></u>		
1	2407.00	52.92	54.00	-1.00	56.00	-3.08	Average		
2	2487.00	61.35	74.00	-12.65	64.43	-3.08	Peak		
3	4924.00	52.92	54.00	-1.08	47.61	5.31	Average		
4	4924.00	55.40	74.00	-18.60	50.09	5.31	Peak		
5	7386.00	43.58	54.00	-10.42	34.09	9.49	Average		
6	7386.00	53.05	74.00	-20.95	43.56	9.49	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



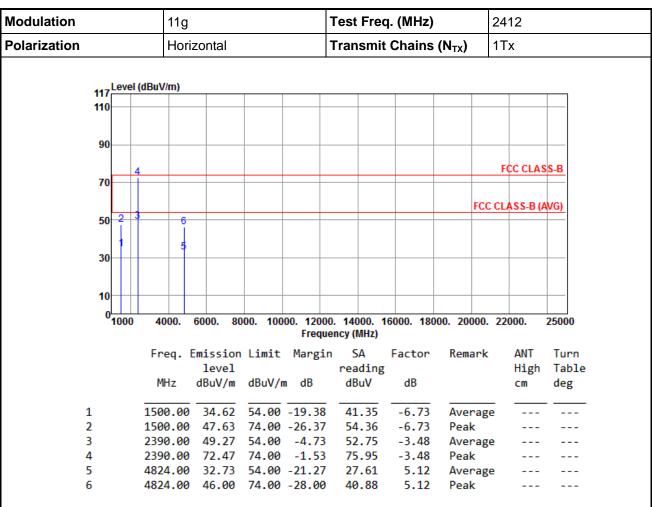
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	47.76	54.00	-6.24	50.84	-3.08	Average		
2	2487.00	56.47			59.55	-3.08	Peak		
3	4924.00	51.71	54.00	-2.29	46.40	5.31	Average		
4	4924.00	54.52	74.00	-19.48	49.21	5.31	Peak		
5	7386.00	50.14	54.00	-3.86	40.65	9.49	Average		
6	7386.00	56.82	74.00	-17.18	47.33	9.49	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

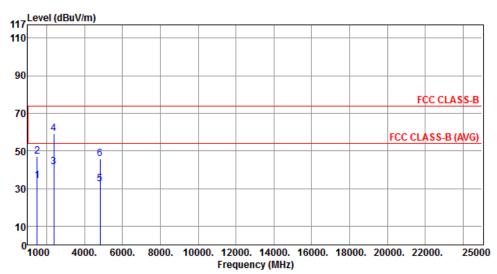
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.95	54.00	-20.05	40.68	-6.73	Average		
2	1500.00	46.99	74.00	-27.01	53.72	-6.73	Peak		
3	2390.00	41.34	54.00	-12.66	44.82	-3.48	Average		
4	2390.00	59.13	74.00	-14.87	62.61	-3.48	Peak		
5	4824.00	32.36	54.00	-21.64	27.24	5.12	Average		
6	4824.00	45.55	74.00	-28.45	40.43	5.12	Peak		

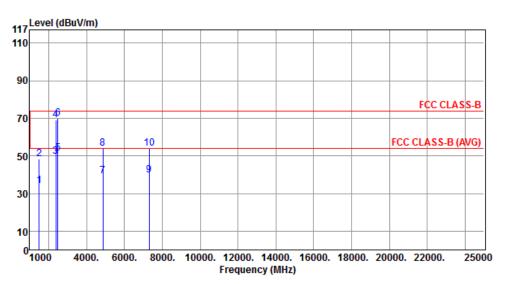
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



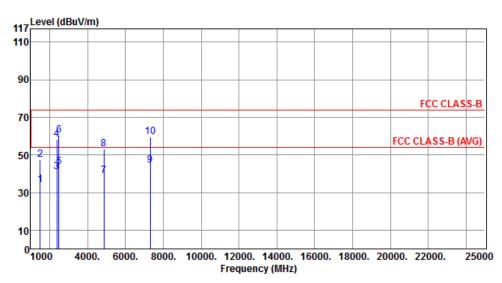
	Freq. 1	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.29	54.00	-19.71	41.02	-6.73	Average		
2	1500.00	48.32	74.00	-25.68	55.05	-6.73	Peak		
3	2390.00	49.67	54.00	-4.33	53.15	-3.48	Average		
4	2390.00	68.87	74.00	-5.13	72.35	-3.48	Peak		
5	2483.50	51.37	54.00	-2.63	54.47	-3.10	Average		
6	2483.50	69.75	74.00	-4.25	72.85	-3.10	Peak		
7	4874.00	39.28	54.00	-14.72	34.06	5.22	Average		
8	4874.00	53.96	74.00	-20.04	48.74	5.22	Peak		
9	7311.00	39.70	54.00	-14.30	30.27	9.43	Average		
10	7311.00	53.78	74.00	-20.22	44.35	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



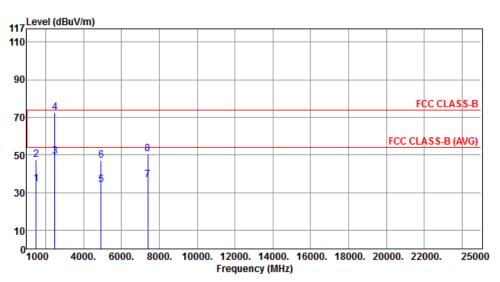
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.25	54.00	-19.75	40.98	-6.73	Average		
2	1500.00	47.33	74.00	-26.67	54.06	-6.73	Peak		
3	2390.00	41.01	54.00	-12.99	44.49	-3.48	Average		
4	2390.00	58.28	74.00	-15.72	61.76	-3.48	Peak		
5	2483.50	43.68	54.00	-10.32	46.78	-3.10	Average		
6	2483.50	60.42	74.00	-13.58	63.52	-3.10	Peak		
7	4874.00	39.00	54.00	-15.00	33.78	5.22	Average		
8	4874.00	53.26	74.00	-20.74	48.04	5.22	Peak		
9	7311.00	44.61	54.00	-9.39	35.18	9.43	Average		
10	7311.00	59.69	74.00	-14.31	50.26	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



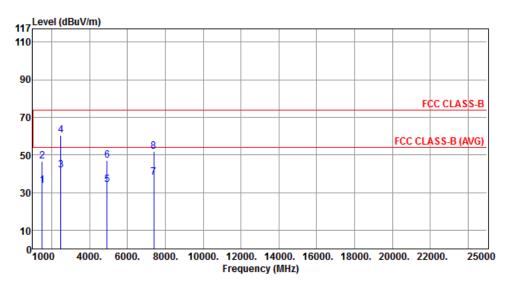
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.48	54.00	-19.52	41.21	-6.73	Average		
2	1500.00	47.35	74.00	-26.65	54.08	-6.73	Peak		
3	2483.50	49.02	54.00	-4.98	52.12	-3.10	Average		
4	2483.50	72.47	74.00	-1.53	75.57	-3.10	Peak		
5	4924.00	34.06	54.00	-19.94	28.75	5.31	Average		
6	4924.00	47.05	74.00	-26.95	41.74	5.31	Peak		
7	7386.00	36.86	54.00	-17.14	27.37	9.49	Average		
8	7386.00	50.42	74.00	-23.58	40.93	9.49	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.82	54.00	-20.18	40.55	-6.73	Average		
2	1500.00	46.76	74.00	-27.24	53.49	-6.73	Peak		
3	2483.50	41.69	54.00	-12.31	44.79	-3.10	Average		
4	2483.50	60.25	74.00	-13.75	63.35	-3.10	Peak		
5	4924.00	33.99	54.00	-20.01	28.68	5.31	Average		
6	4924.00	47.27	74.00	-26.73	41.96	5.31	Peak		
7	7386.00	37.96	54.00	-16.04	28.47	9.49	Average		
8	7386.00	51.97	74.00	-22.03	42.48	9.49	Peak		

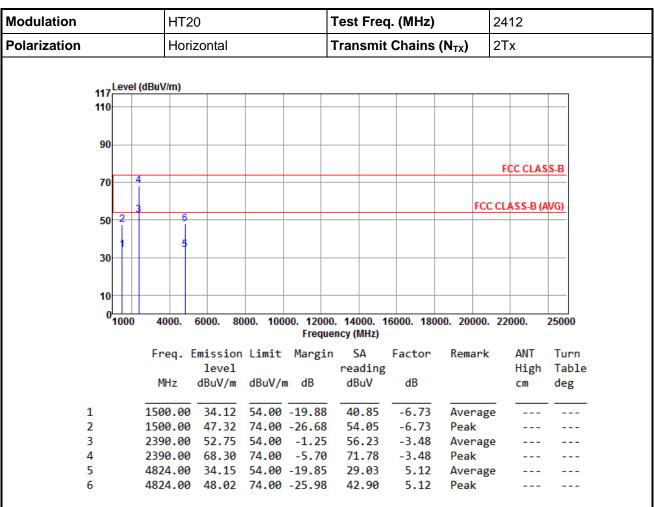
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

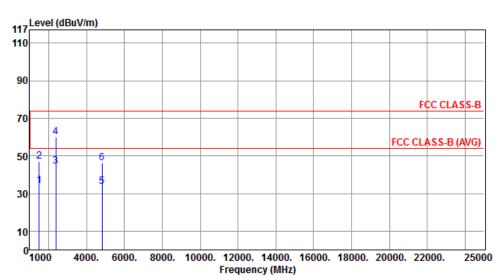
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



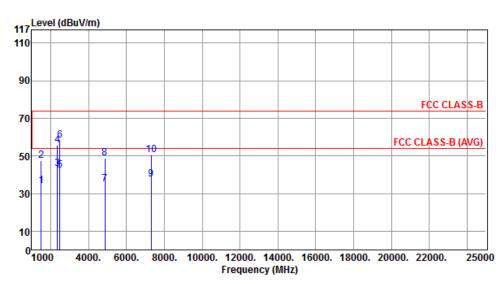
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.95	54.00	-20.05	40.68	-6.73	Average		
2	1500.00		74.00		53.98	-6.73	Peak		
3	2390.00	44.60	54.00	-9.40	48.08	-3.48	Average		
4	2390.00	60.11	74.00	-13.89	63.59	-3.48	Peak		
5	4824.00	33.78	54.00	-20.22	28.66	5.12	Average		
6	4824.00	46.10	74.00	-27.90	40.98	5.12	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



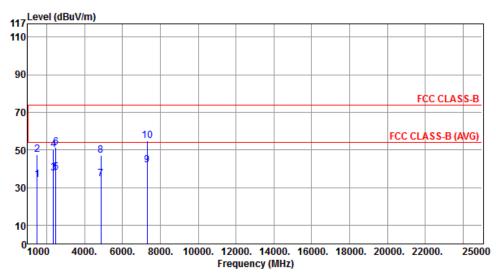
	Freq. l	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.91	54.00	-20.09	40.64	-6.73	Average		
2	1500.00	47.60	74.00	-26.40	54.33	-6.73	Peak		
3	2350.00	42.99	54.00	-11.01	46.64	-3.65	Average		
4	2350.00	55.76	74.00	-18.24	59.41	-3.65	Peak		
5	2483.50	42.29	54.00	-11.71	45.39	-3.10	Average		
6	2483.50	58.29	74.00	-15.71	61.39	-3.10	Peak		
7	4874.00	35.18	54.00	-18.82	29.96	5.22	Average		
8	4874.00	48.80	74.00	-25.20	43.58	5.22	Peak		
9	7311.00	37.41	54.00	-16.59	27.98	9.43	Average		
10	7311.00	50.31	74.00	-23.69	40.88	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



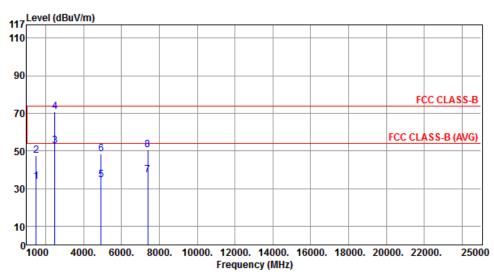
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.09	54.00	-19.91	40.82	-6.73	Average		
2	1500.00	47.68	74.00	-26.32	54.41	-6.73	Peak		
3	2350.00	37.55	54.00	-16.45	41.20	-3.65	Average		
4	2350.00	50.28	74.00	-23.72	53.93	-3.65	Peak		
5	2483.50	38.08	54.00	-15.92	41.18	-3.10	Average		
6	2483.50	51.21	74.00	-22.79	54.31	-3.10	Peak		
7	4874.00	34.60	54.00	-19.40	29.38	5.22	Average		
8	4874.00	47.08	74.00	-26.92	41.86	5.22	Peak		
9	7311.00	41.79	54.00	-12.21	32.36	9.43	Average		
10	7311.00	54.74	74.00	-19.26	45.31	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



		Emission level		Ū	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.80	54.00	-20.20	40.53	-6.73	Average		
2	1500.00	47.55	74.00	-26.45	54.28	-6.73	Peak		
3	2483.50	52.83	54.00	-1.17	55.93	-3.10	Average		
4	2483.50	70.62	74.00	-3.38	73.72	-3.10	Peak		
5	4924.00	34.57	54.00	-19.43	29.26	5.31	Average		
6	4924.00	48.49	74.00	-25.51	43.18	5.31	Peak		
7	7386.00	37.04	54.00	-16.96	27.55	9.49	Average		
8	7386.00	50.40	74.00	-23.60	40.91	9.49	Peak		

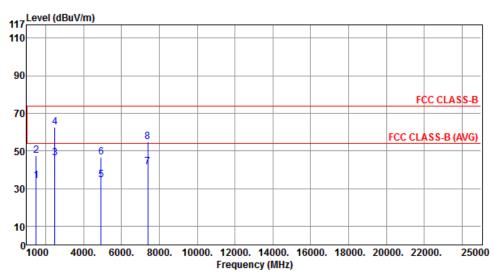
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
	PHIZ	ubuv/III	ubuv/III	ub	ubuv	ub		CIII	ueg
1	1500.00	34.23	54.00	-19.77	40.96	-6.73	Average		
2	1500.00	47.54	74.00	-26.46	54.27	-6.73	Peak		
3	2483.50	46.31	54.00	-7.69	49.41	-3.10	Average		
4	2483.50	62.80	74.00	-11.20	65.90	-3.10	Peak		
5	4924.00	34.45	54.00	-19.55	29.14	5.31	Average		
6	4924.00	46.66	74.00	-27.34	41.35	5.31	Peak		
7	7386.00	41.54	54.00	-12.46	32.05	9.49	Average		
8	7386.00	54.68	74.00	-19.32	45.19	9.49	Peak		

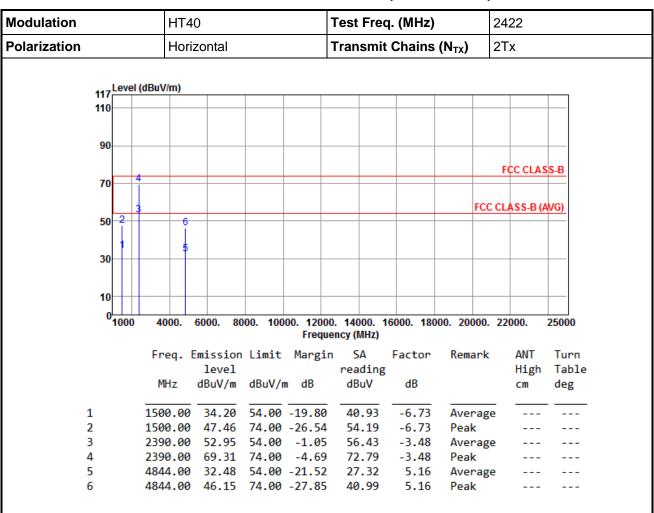
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

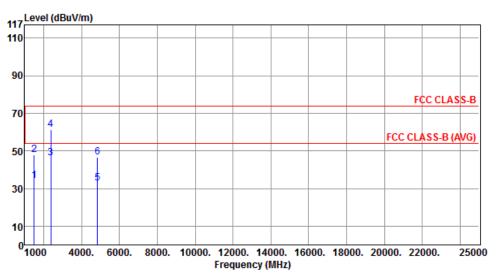
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.11	54.00	-19.89	40.84	-6.73	Average		
2	1500.00				54.85	-6.73	Peak		
3	2390.00	46.19	54.00	-7.81	49.67	-3.48	Average		
4	2390.00	61.13	74.00	-12.87	64.61	-3.48	Peak		
5	4844.00	32.80	54.00	-21.20	27.64	5.16	Average		
6	4844.00	46.53	74.00	-27.47	41.37	5.16	Peak		

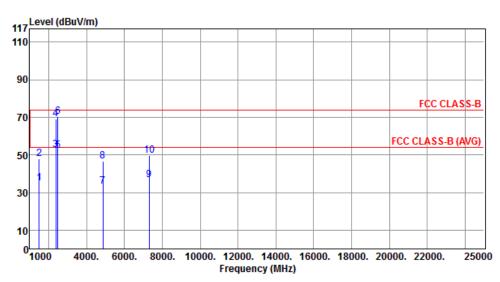
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



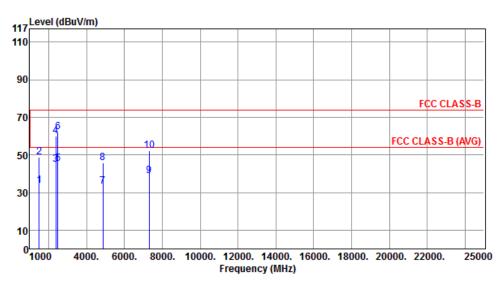
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.92	54.00	-19.08	41.65	-6.73	Average		
2	1500.00	47.85	74.00	-26.15	54.58	-6.73	Peak		
3	2390.00	52.48	54.00	-1.52	55.96	-3.48	Average		
4	2390.00	69.00	74.00	-5.00	72.48	-3.48	Peak		
5	2483.50	52.07	54.00	-1.93	55.17	-3.10	Average		
6	2483.50	70.23	74.00	-3.77	73.33	-3.10	Peak		
7	4874.00	33.27	54.00	-20.73	28.05	5.22	Average		
8	4874.00	46.53	74.00	-27.47	41.31	5.22	Peak		
9	7311.00	36.89	54.00	-17.11	27.46	9.43	Average		
10	7311.00	49.73	74.00	-24.27	40.30	9.43	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



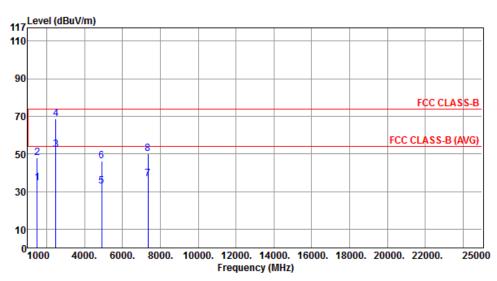
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
4	4500.00		<u></u>	20.44	40.50				
1	1500.00	33.86	54.00	-20.14	40.59	-6.73	Average		
2	1500.00	48.59	74.00	-25.41	55.32	-6.73	Peak		
3	2390.00	44.91	54.00	-9.09	48.39	-3.48	Average		
4	2390.00	59.95	74.00	-14.05	63.43	-3.48	Peak		
5	2483.50	45.53	54.00	-8.47	48.63	-3.10	Average		
6	2483.50	62.29	74.00	-11.71	65.39	-3.10	Peak		
7	4874.00	33.06	54.00	-20.94	27.84	5.22	Average		
8	4874.00	45.81	74.00	-28.19	40.59	5.22	Peak		
9	7311.00	38.97	54.00	-15.03	29.54	9.43	Average		
10	7311.00	52.34	74.00	-21.66	42.91	9.43	Peak		

*Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.63	54.00	-19.37	41.36	-6.73	Average		
2	1500.00	47.94	74.00	-26.06	54.67	-6.73	Peak		
3	2483.50	52.41	54.00	-1.59	55.51	-3.10	Average		
4	2483.50	68.74	74.00	-5.26	71.84	-3.10	Peak		
5	4904.00	32.80	54.00	-21.20	27.52	5.28	Average		
6	4904.00	46.21	74.00	-27.79	40.93	5.28	Peak		
7	7356.00	36.70	54.00	-17.30	27.24	9.46	Average		
8	7356.00	50.06	74.00	-23.94	40.60	9.46	Peak		

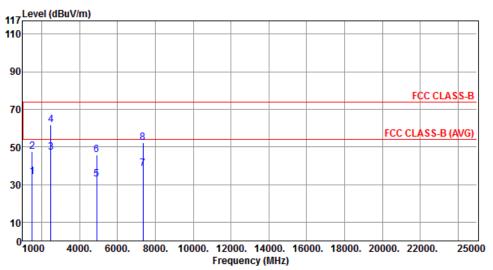
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.24	54.00	-19.76	40.97	-6.73	Average		
2	1500.00	47.64	74.00	-26.36	54.37	-6.73	Peak		
3	2483.50	46.93	54.00	-7.07	50.03	-3.10	Average		
4	2483.50	61.73	74.00	-12.27	64.83	-3.10	Peak		
5	4904.00	32.61	54.00	-21.39	27.33	5.28	Average		
6	4904.00	45.96	74.00	-28.04	40.68	5.28	Peak		
7	7356.00	38.49	54.00	-15.51	29.03	9.46	Average		
8	7356.00	52.05	74.00	-21.95	42.59	9.46	Peak		

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power 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

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

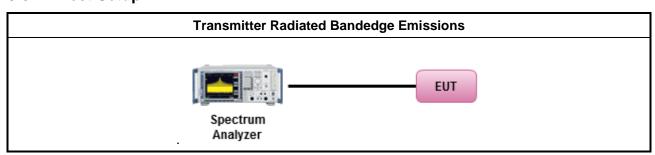
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

3.6.4 Test Setup



3.6.5 Test Result of Emissions in non-restricted frequency bands

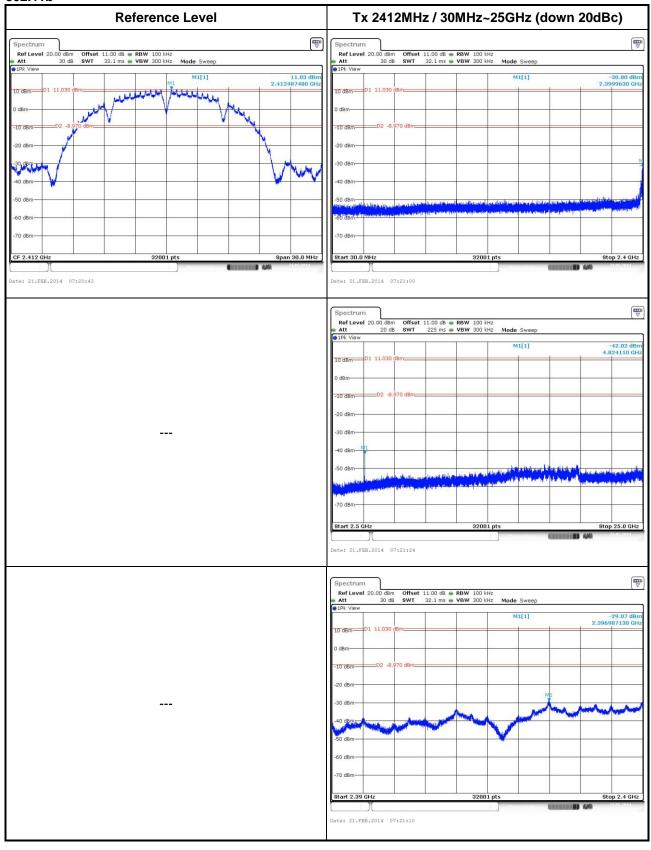
This test item is performed on each TX output individually without summing or adding 10 $log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

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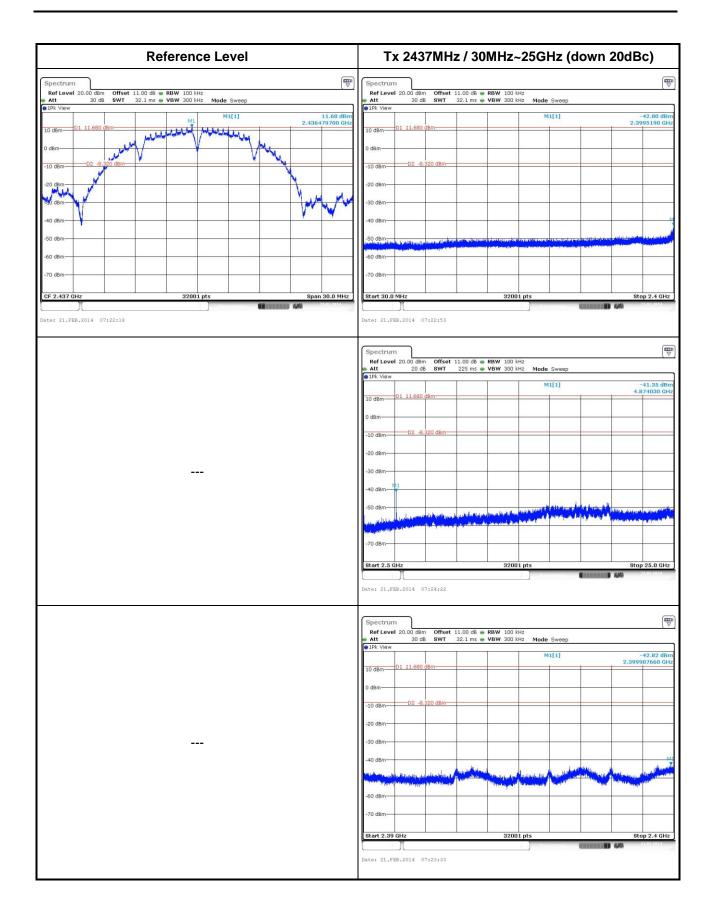
3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands

802.11b



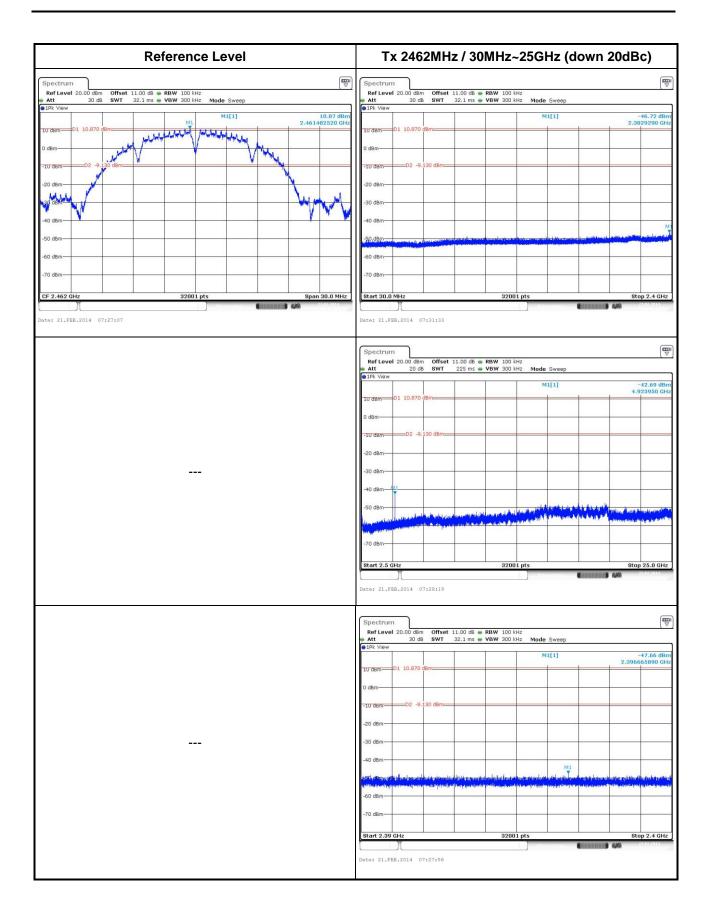
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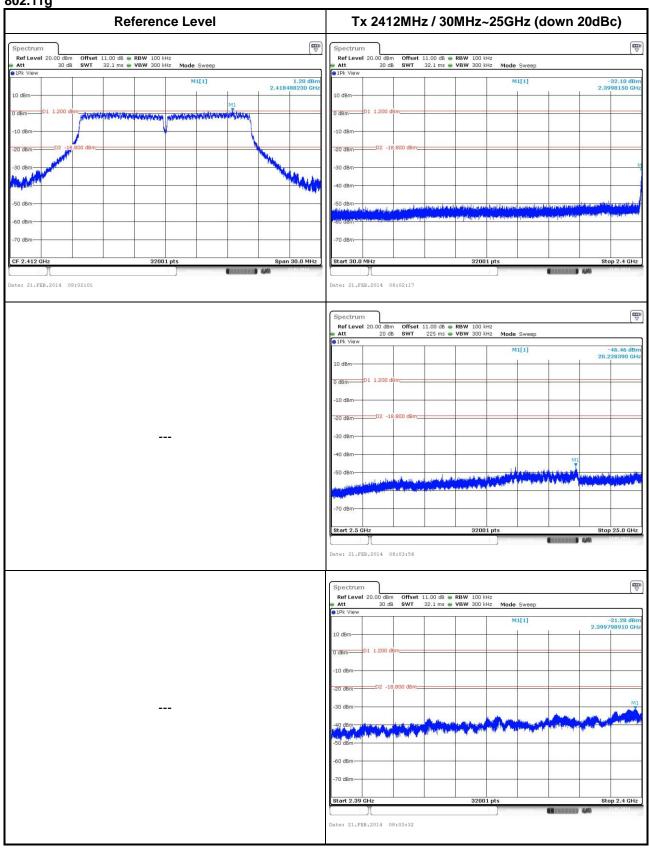




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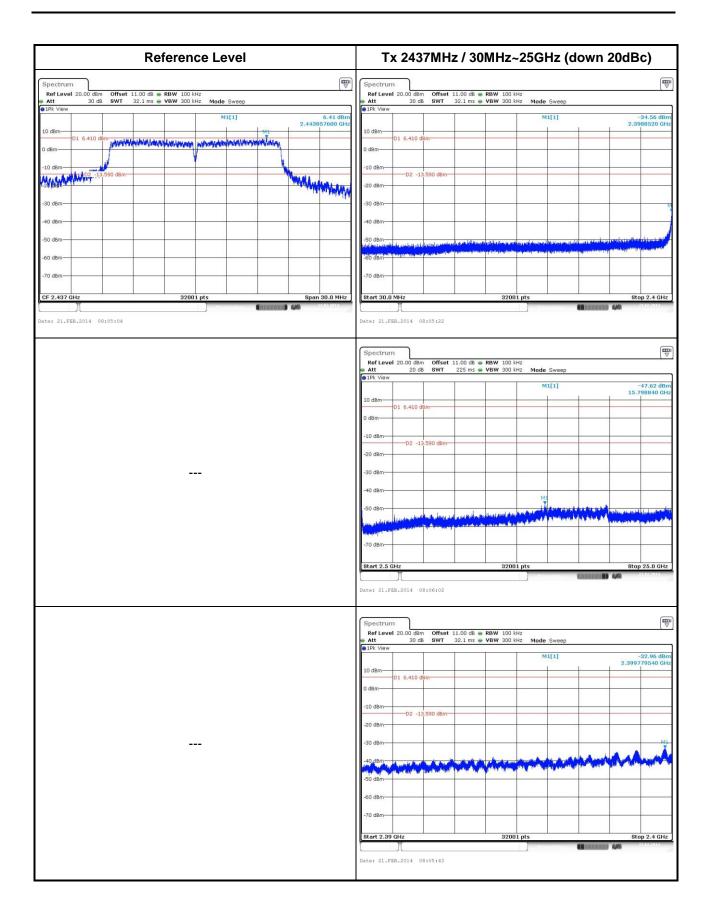






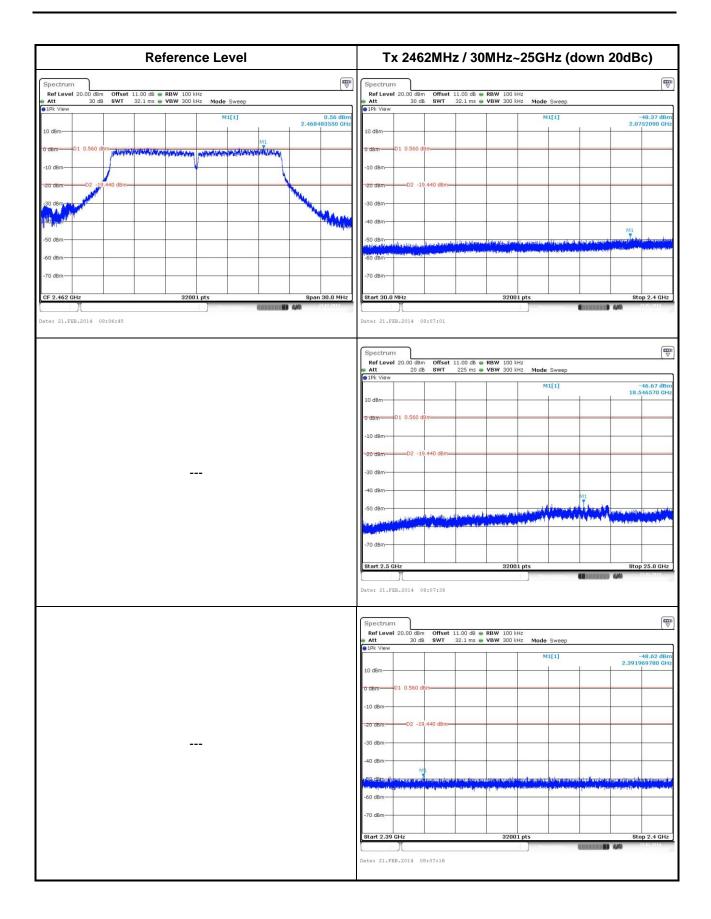
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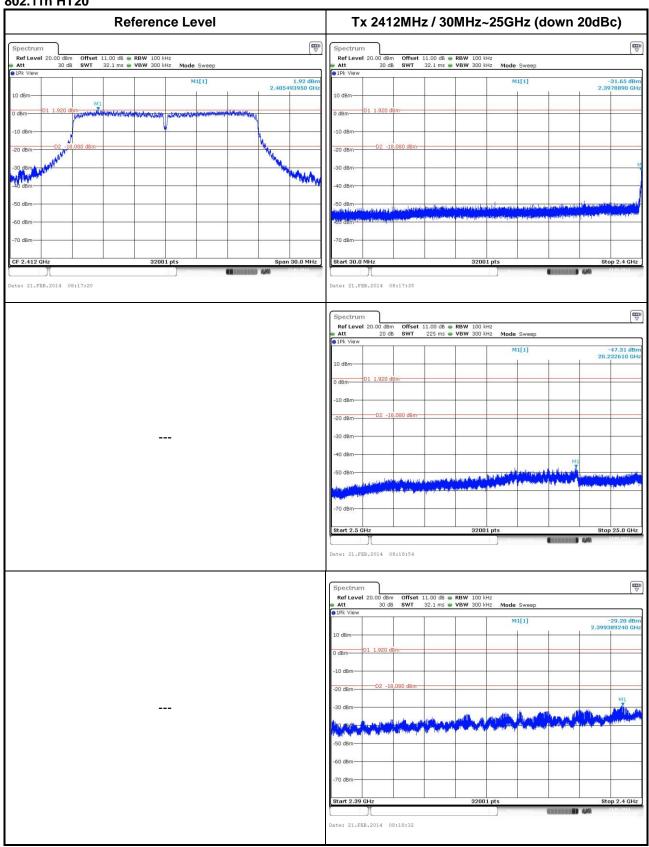




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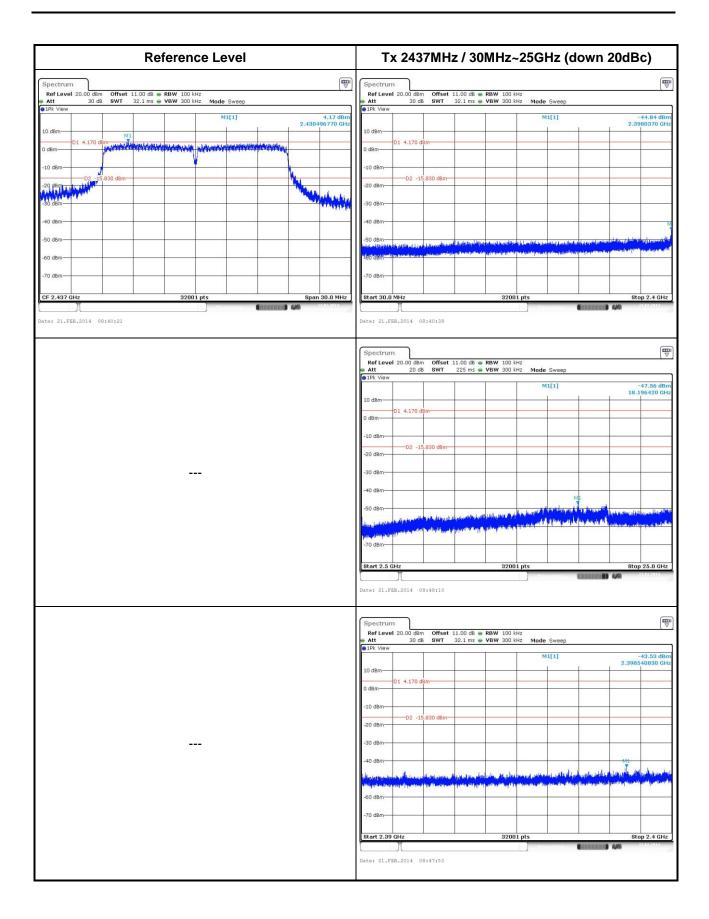


802.11n HT20



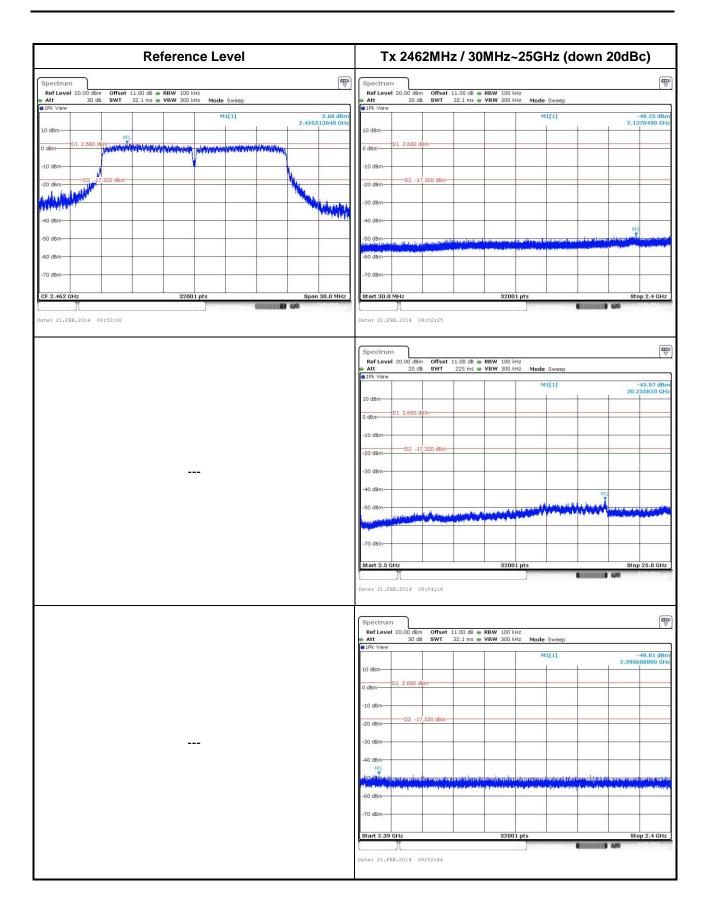
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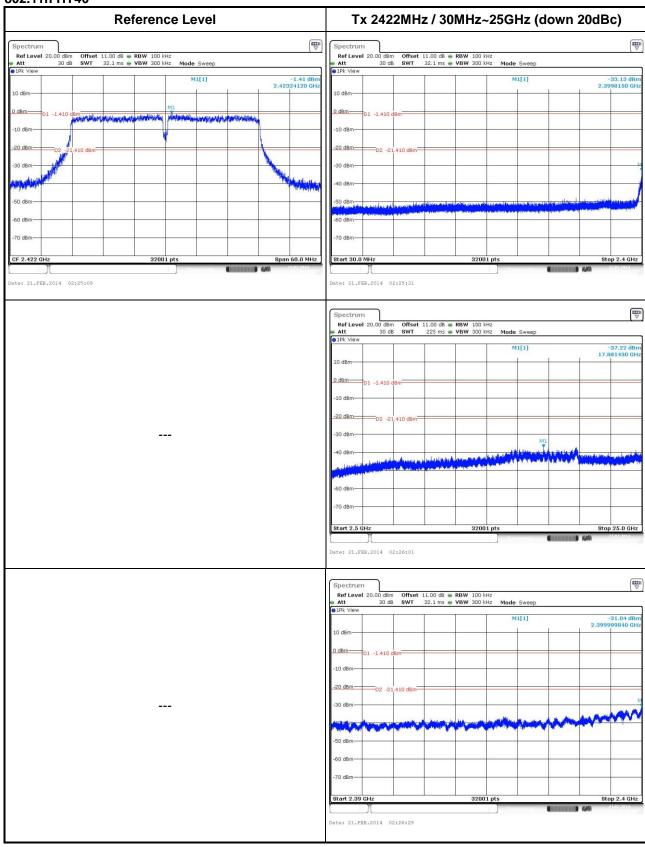




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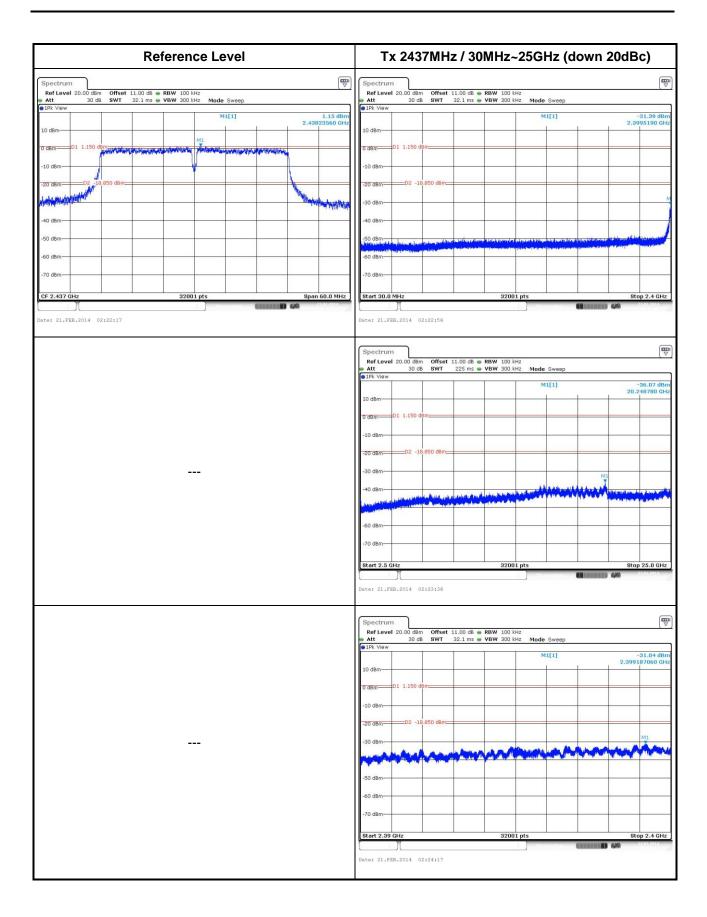


802.11n HT40



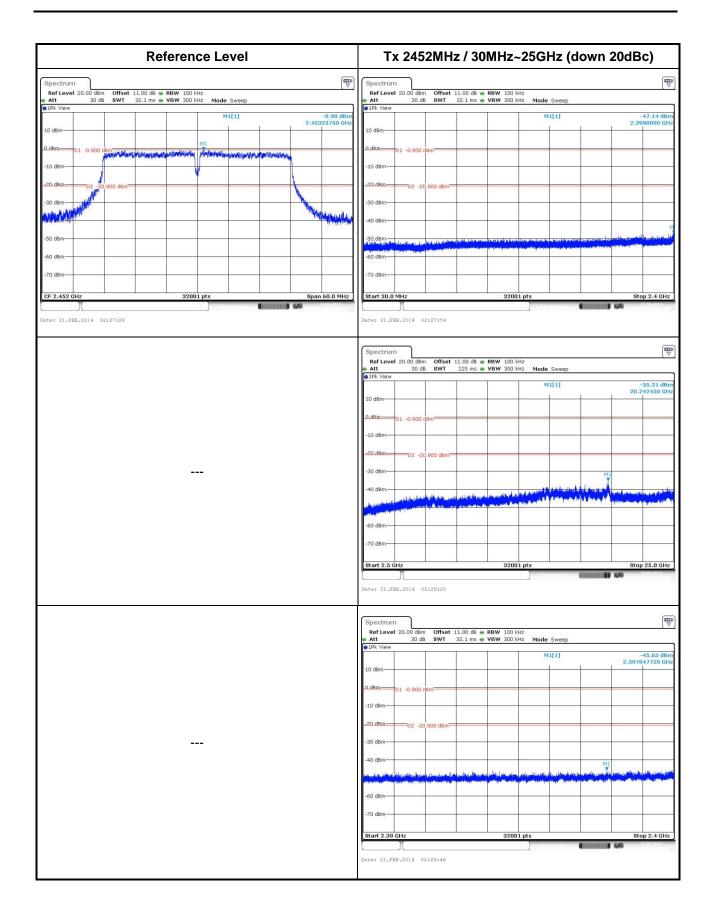
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Test laboratory information 4

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

Kwei Shan Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei

City, Taiwan, R.O.C.

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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