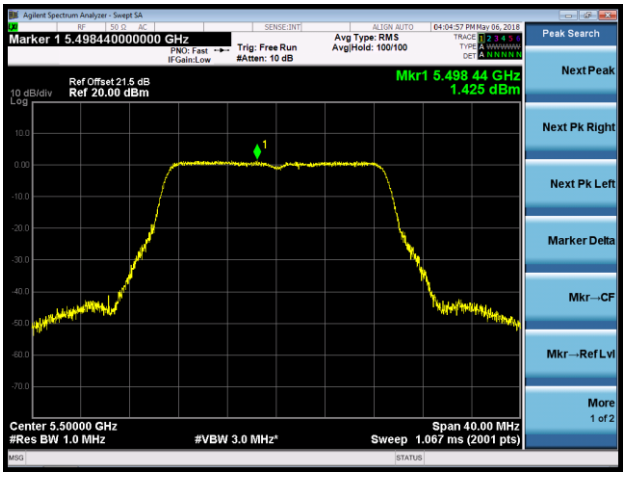
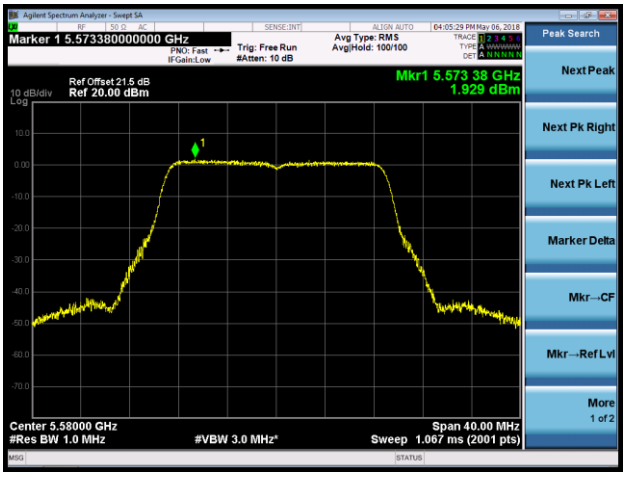
802.11n-HT20 Power Spectral Density

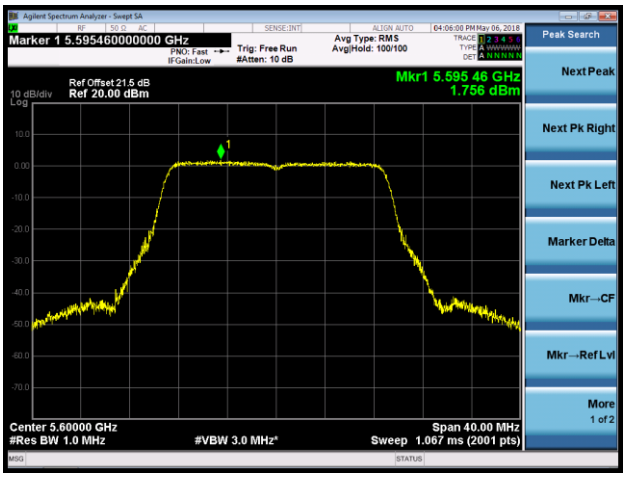
Channel 100 (5500MHz)



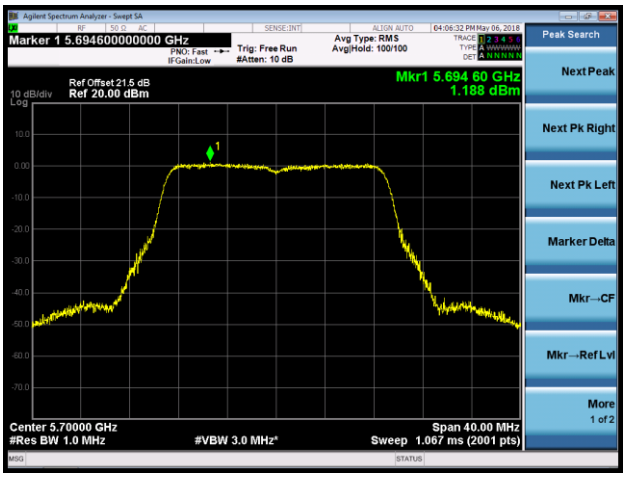
Channel 116 (5580MHz)



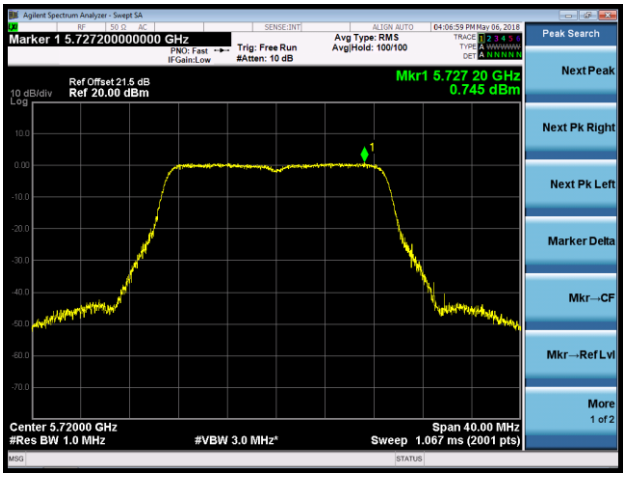
Channel 120 (5600MHz)



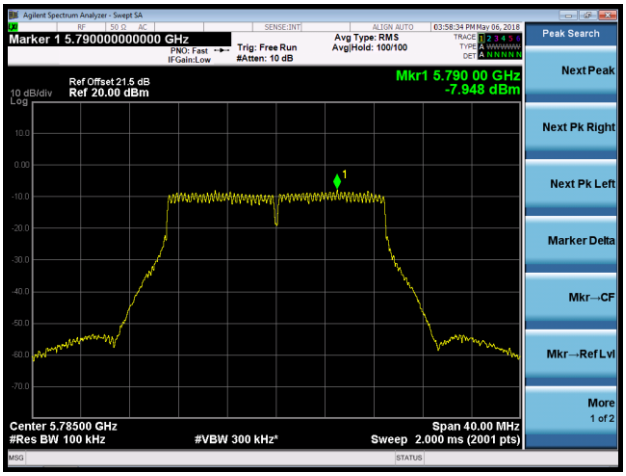
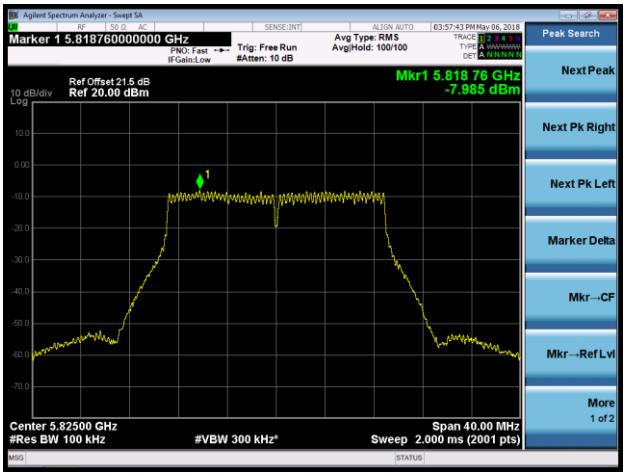
Channel 140 (5700MHz)



Channel 144 (5720MHz)

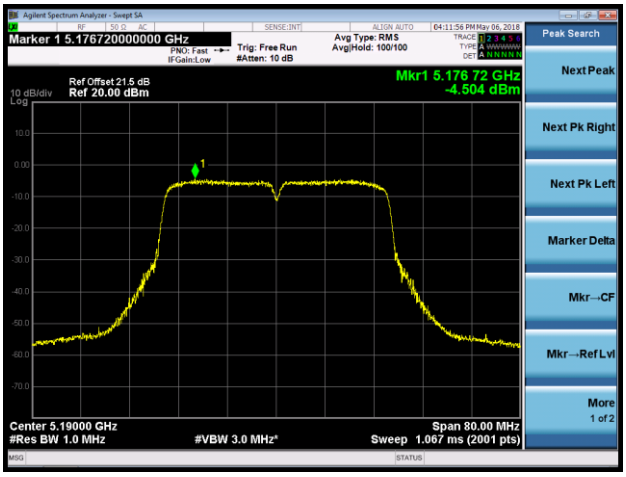


Channel 149 (5745MHz)

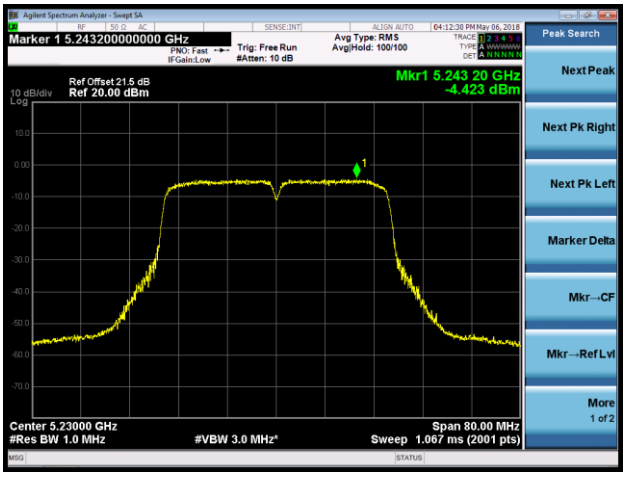
802.11n-HT20 Power Spectral Density	
Channel 157 (5785MHz)	**Channel 165 (5825MHz)**
	

802.11n-HT40 Power Spectral Density

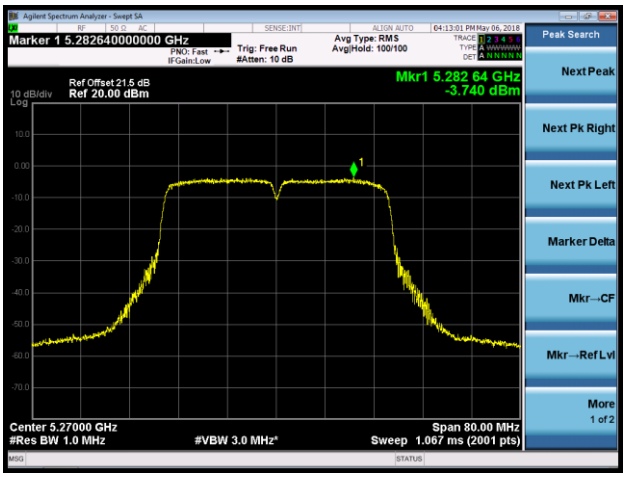
Channel 38 (5190MHz)



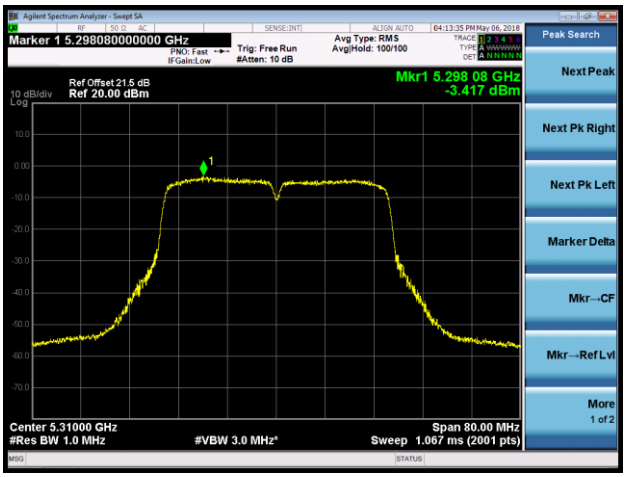
Channel 46 (5230MHz)



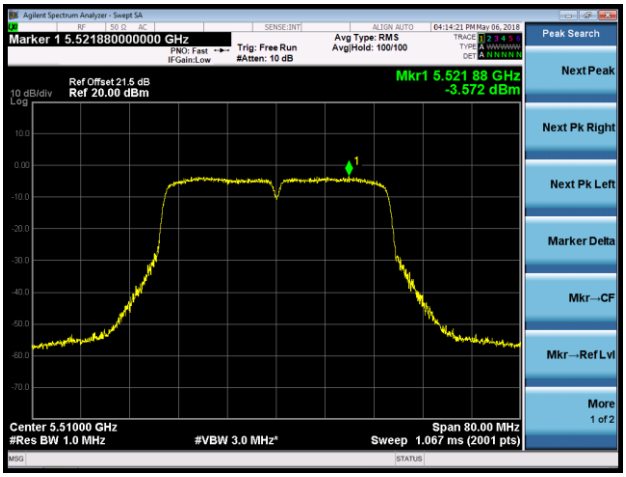
Channel 54 (5270MHz)



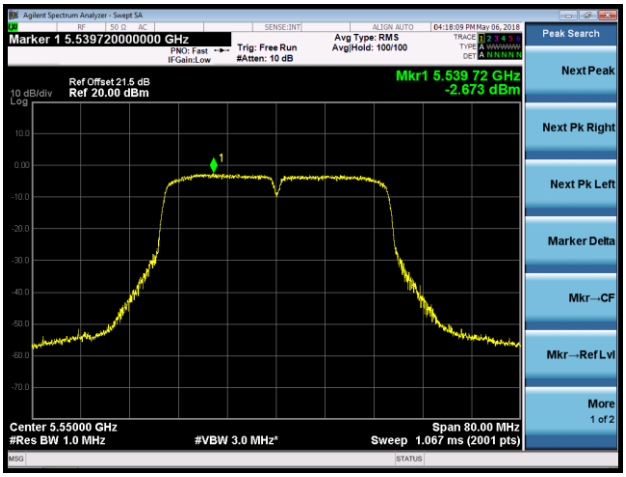
Channel 62 (5310MHz)



Channel 102 (5510MHz)

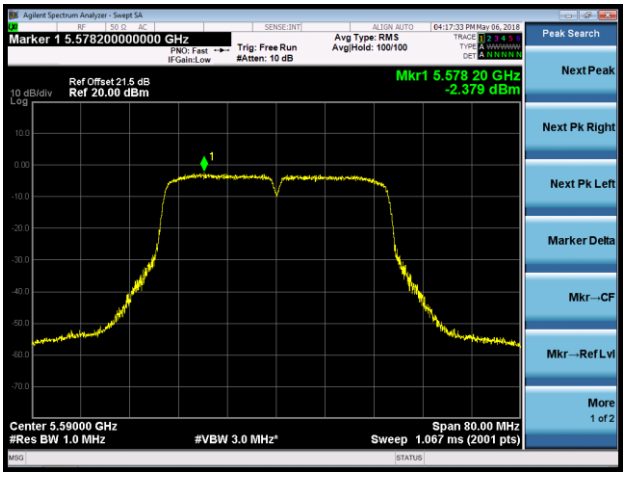


Channel 110 (5550MHz)

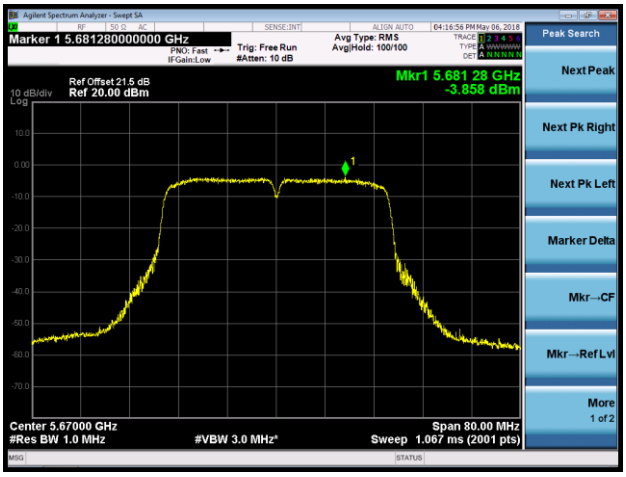


802.11n-HT40 Power Spectral Density

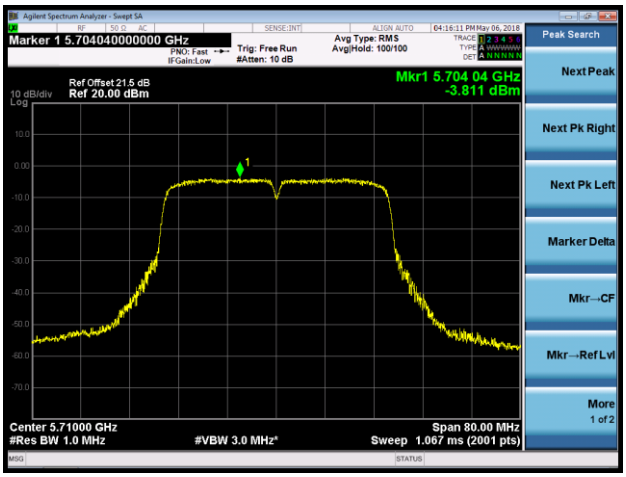
Channel 118 (5590MHz)



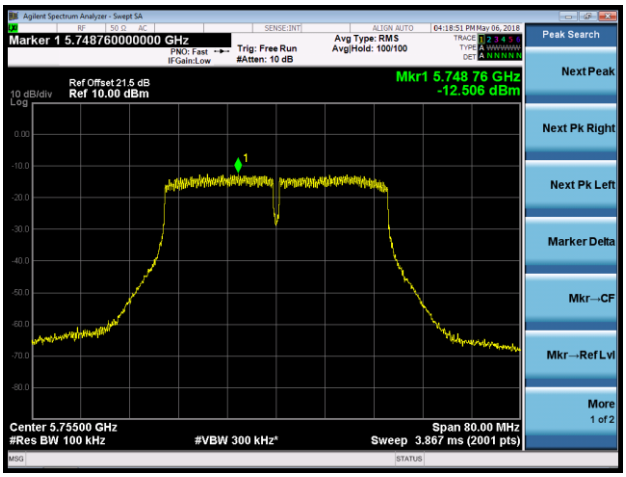
Channel 134 (5670MHz)



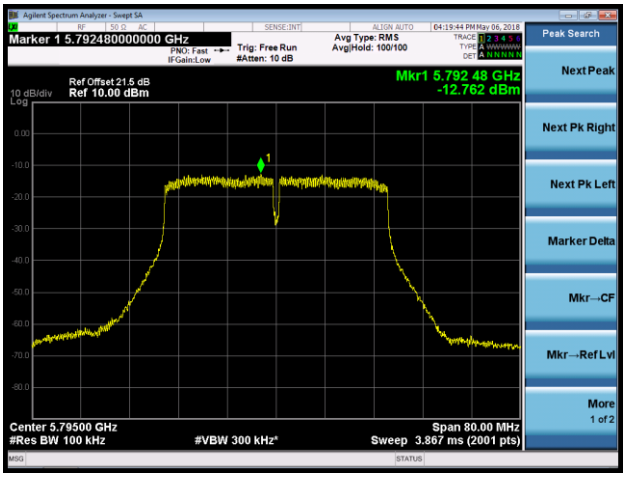
Channel 142 (5710MHz)



Channel 151 (5755MHz)

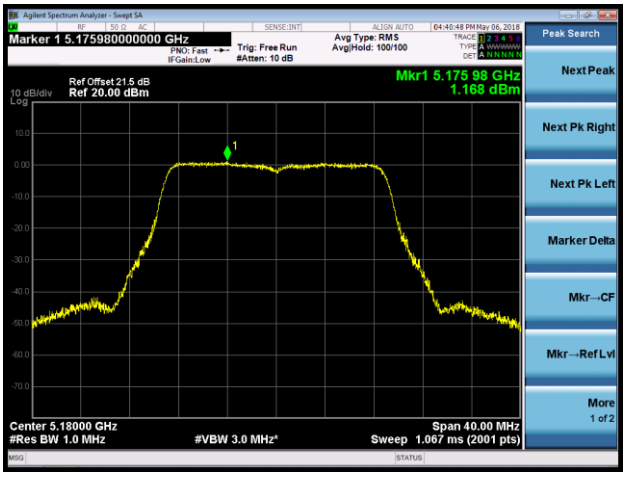


Channel 159 (5795MHz)

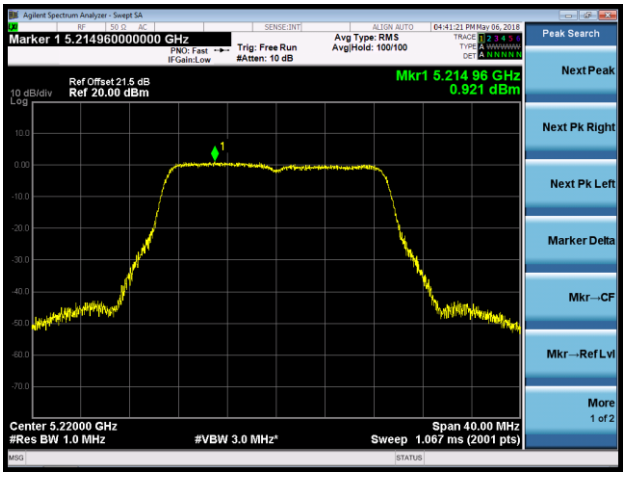


802.11ac-VHT20 Power Spectral Density

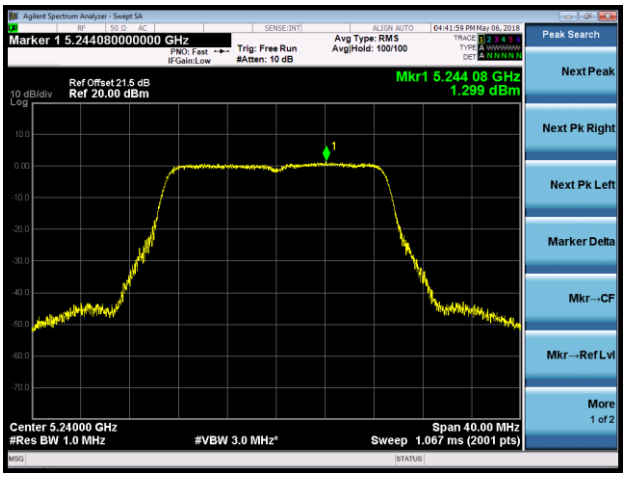
Channel 36 (5180MHz)



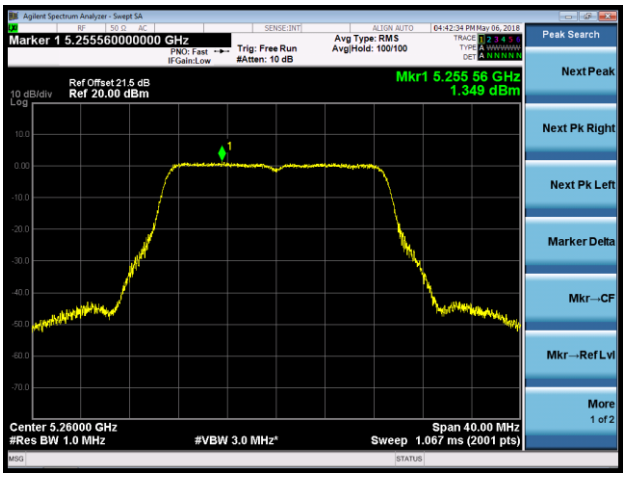
Channel 44 (5220MHz)



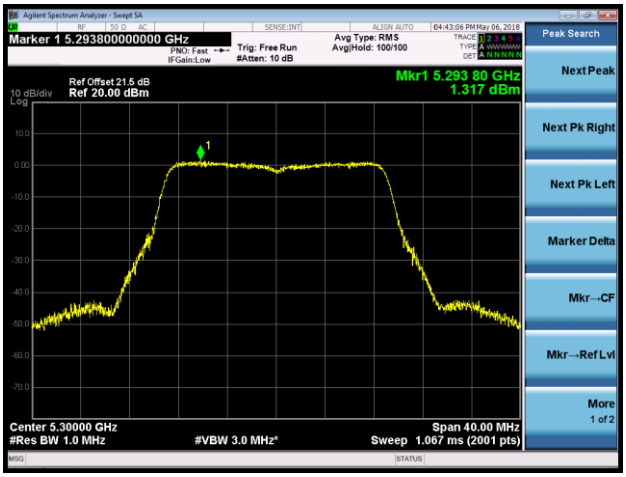
Channel 48 (5240MHz)



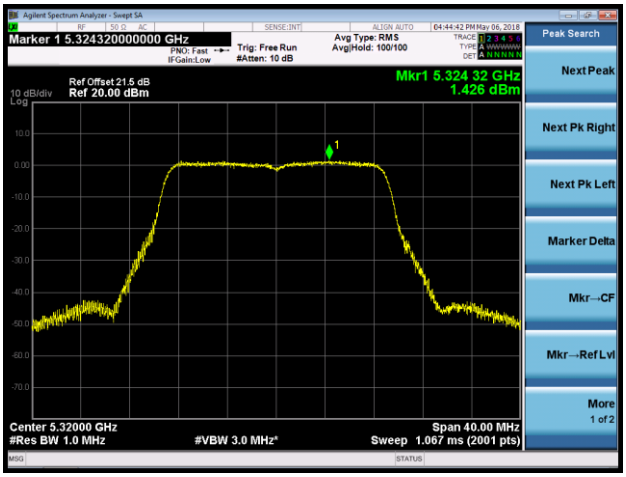
Channel 52 (5260MHz)



Channel 60 (5300MHz)

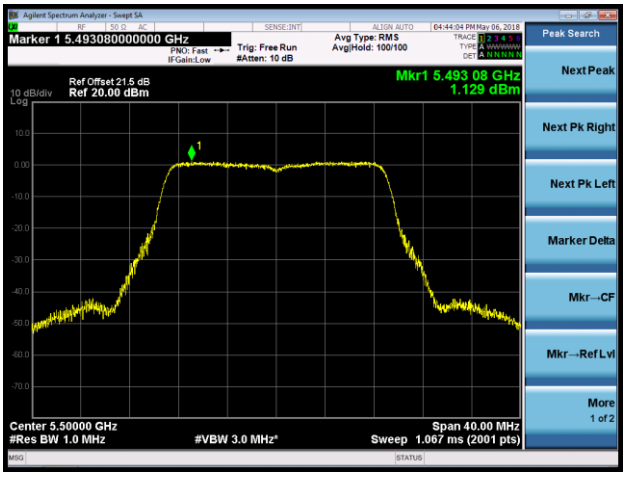


Channel 64 (5320MHz)

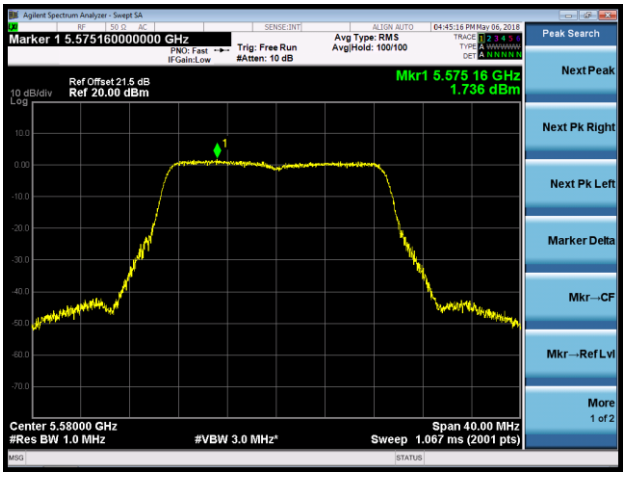


802.11ac-VHT20 Power Spectral Density

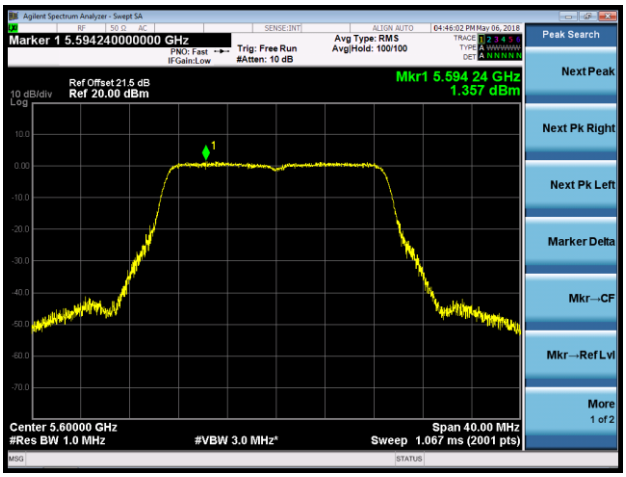
Channel 100 (5500MHz)



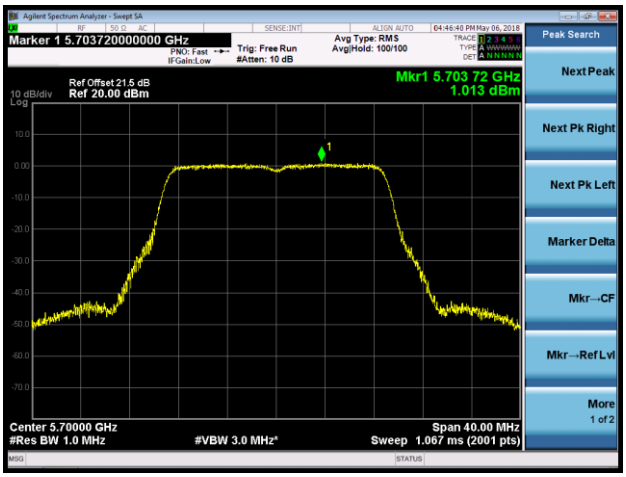
Channel 116 (5580MHz)



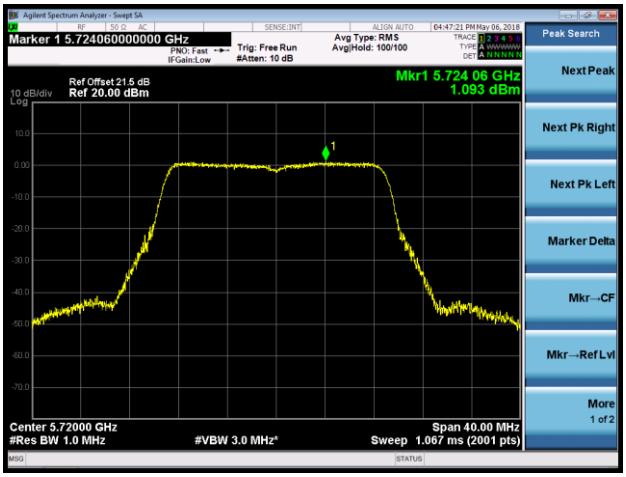
Channel 120 (5600MHz)



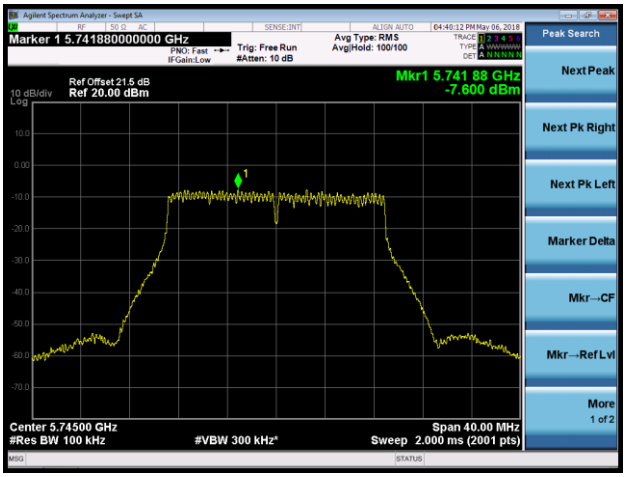
Channel 140 (5700MHz)

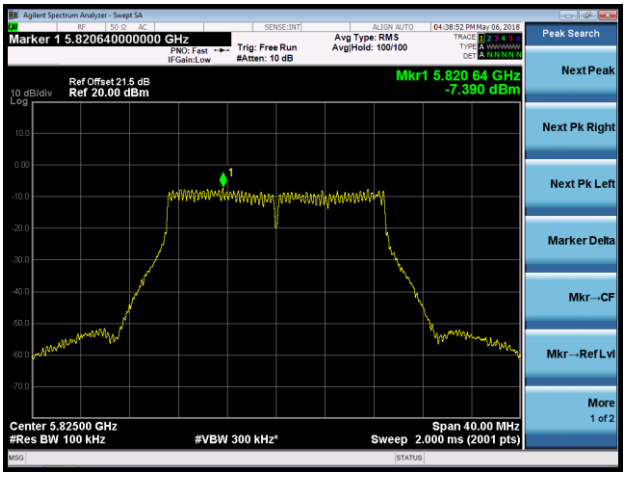


Channel 144 (5720MHz)



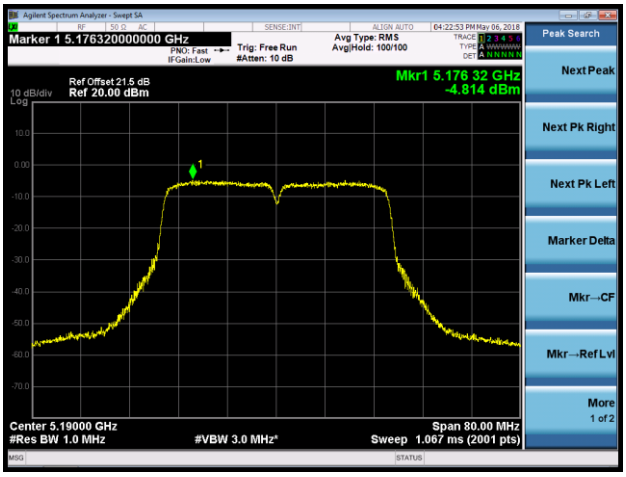
Channel 149 (5745MHz)



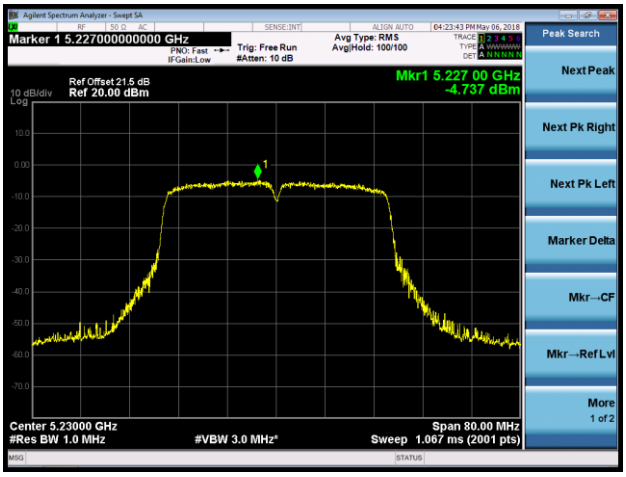
802.11ac-VHT20 Power Spectral Density	
Channel 157 (5785MHz)	**Channel 165 (5825MHz)**
	

802.11ac-VHT40 Power Spectral Density

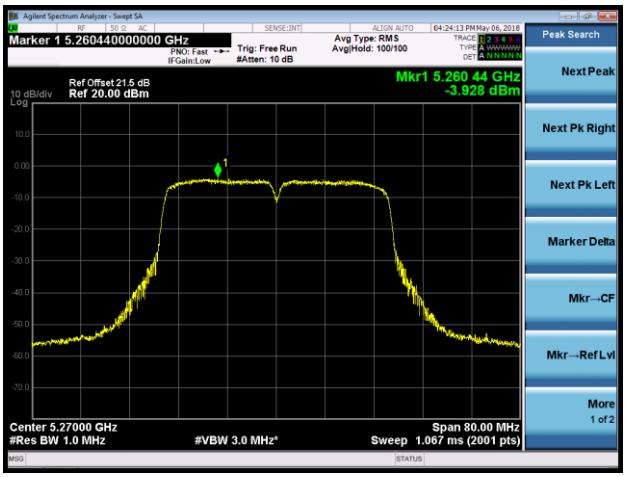
Channel 38 (5190MHz)



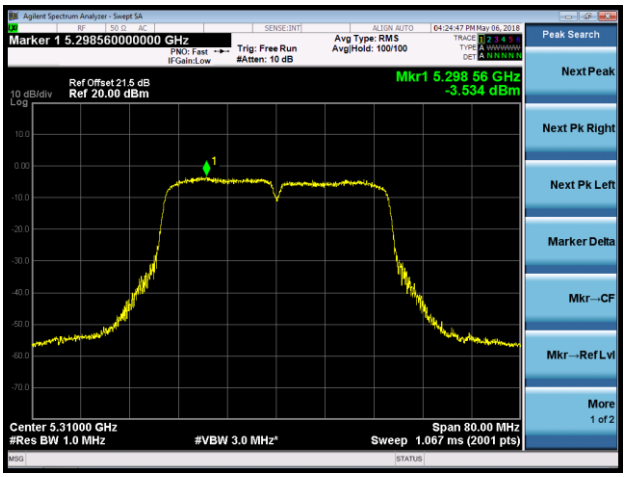
Channel 46 (5230MHz)



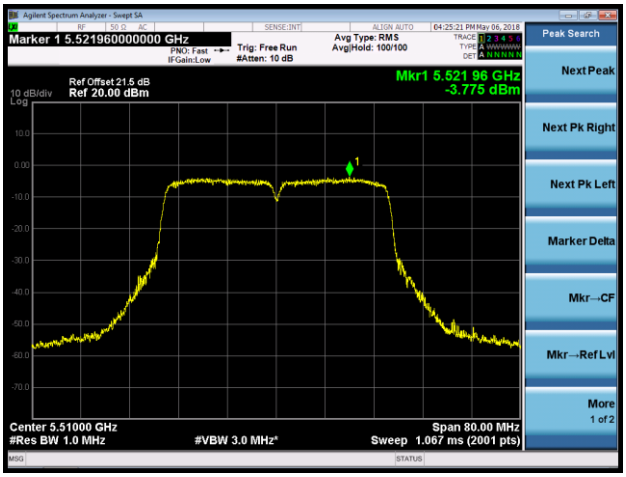
Channel 54 (5270MHz)



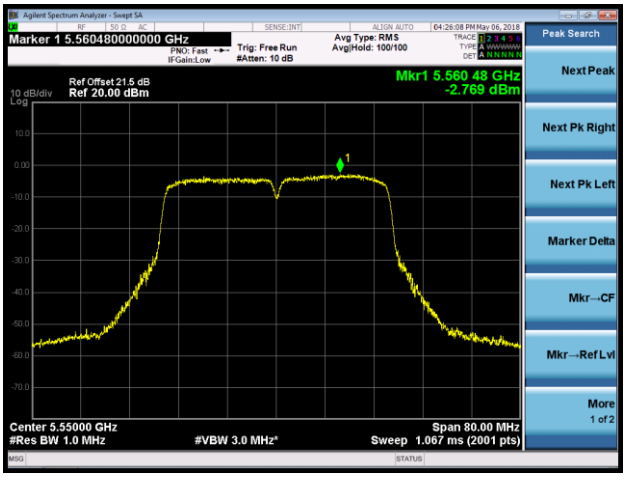
Channel 62 (5310MHz)

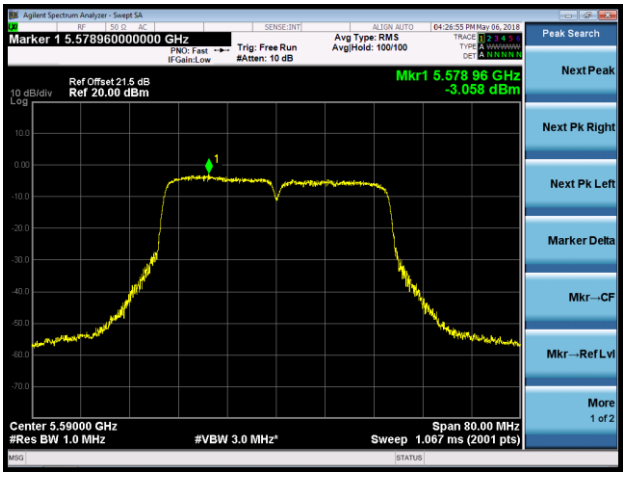
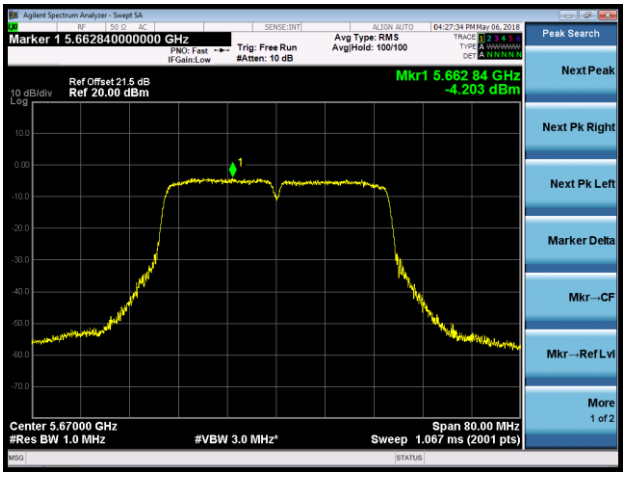
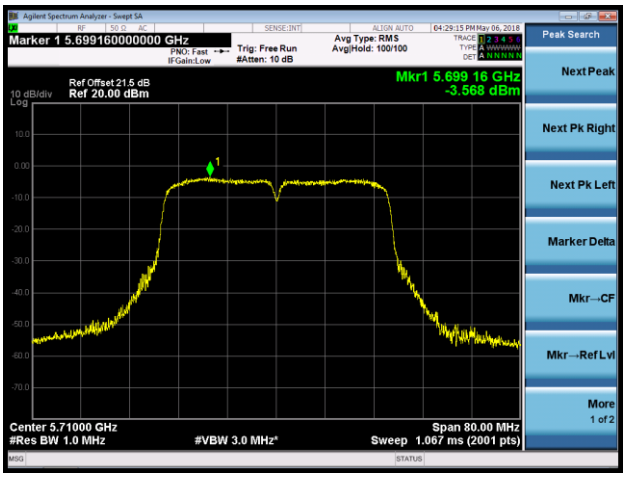
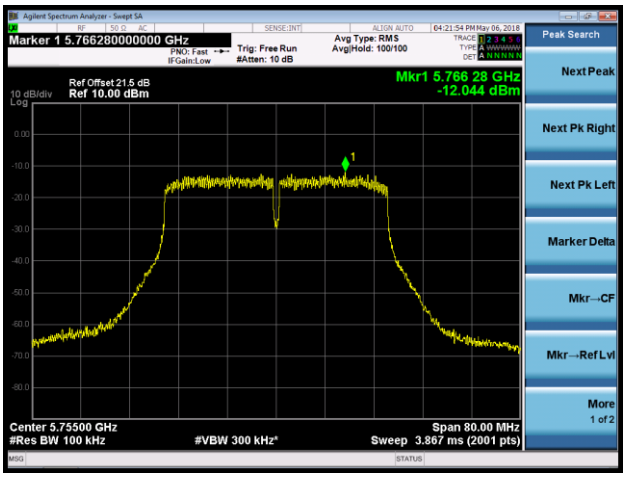
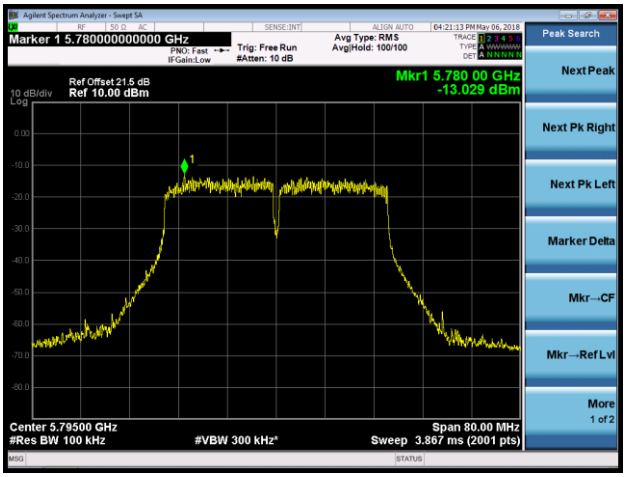


Channel 102 (5510MHz)



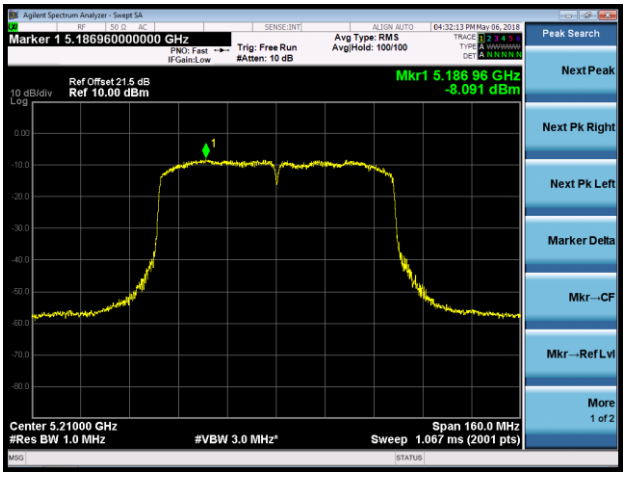
Channel 110 (5550MHz)



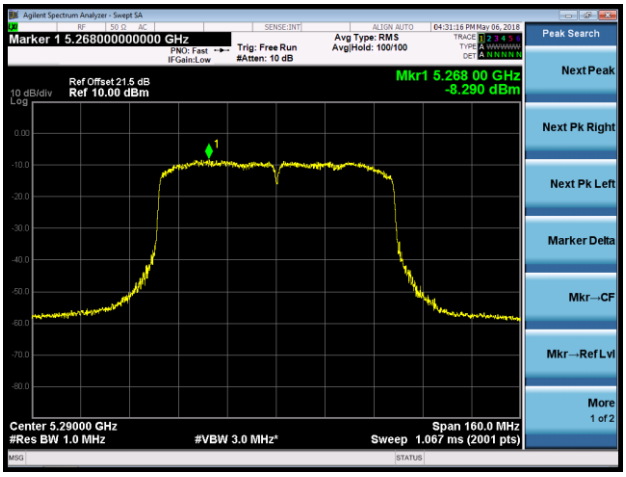
802.11ac-VHT40 Power Spectral Density	
Channel 118 (5590MHz)	**Channel 134 (5670MHz)**
	
Channel 142 (5710MHz)	**Channel 151 (5755MHz)**
	
Channel 159 (5795MHz)	
	

802.11ac-VHT80 Power Spectral Density

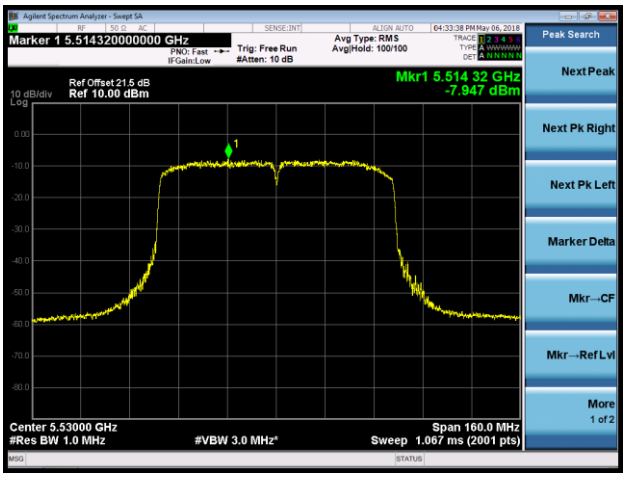
Channel 42 (5210MHz)



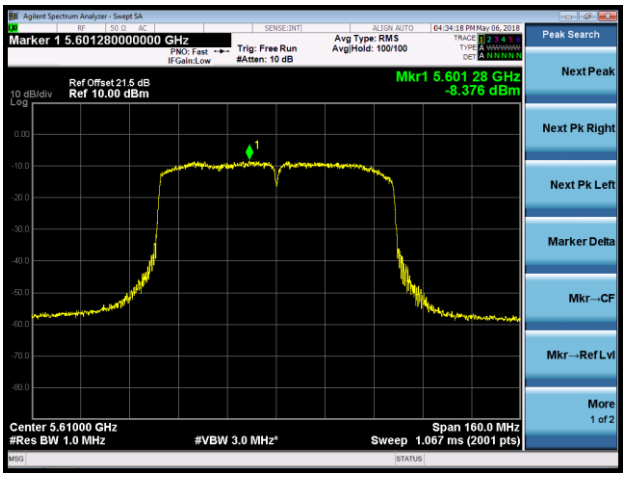
Channel 58 (5290MHz)



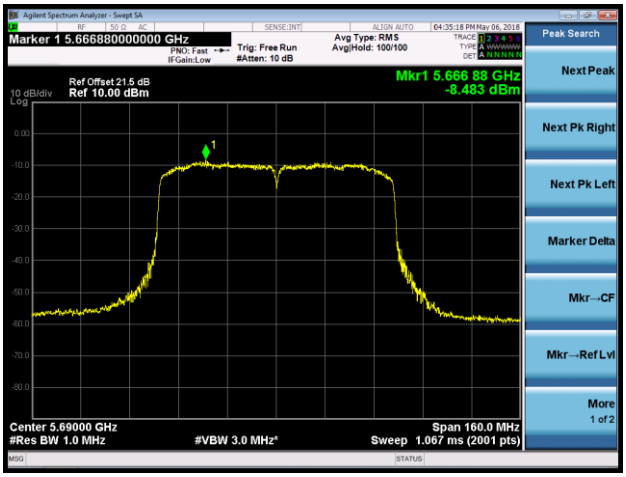
Channel 106 (5530MHz)



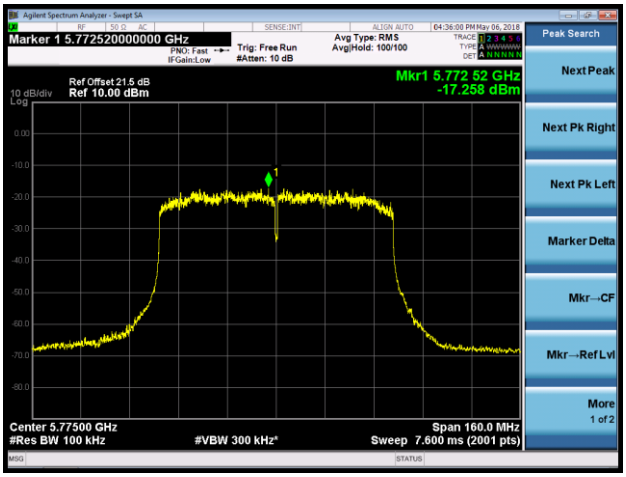
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



7.7. Frequency Stability Measurement

7.7.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ±20 ppm maximum for the 5GHz band (IEEE 802.11 specification).

7.7.2.Test Procedure Used

Frequency Stability Under Temperature Variations:

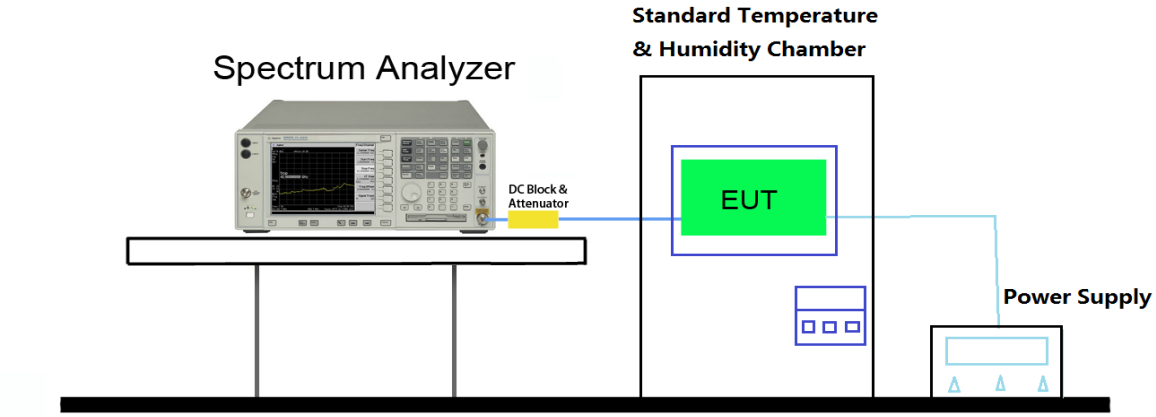
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

7.7.3.Test Setup



7.7.4.Test Result

Dolphine	Mobile Computer	Temperature	-30 ~ 50°C
Test Engineer	Dandy Li	Relative Humidity	46 ~ 58%RH
Test Site	TR3	Test Time	2018/05/05
Test Mode	5320MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (℃)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 30	-4.05	-3.97	-3.77	-3.75
		- 20	-4.06	-4.02	-3.79	-3.76
		- 10	-4.22	-4.02	-3.80	-3.80
		0	-4.23	-4.23	-4.09	-4.03
		+ 10	-4.27	-4.40	-4.39	-4.49
		+ 20 (Ref)	-4.29	-4.56	-4.89	-5.03
		+ 30	-5.35	-5.54	-5.78	-5.91
		+ 40	-6.02	-6.23	-6.35	-6.48
		+ 50	-6.33	-6.78	-6.94	-7.12
115%	138	+ 20	-4.36	-4.69	-5.14	-5.37
85%	102	+ 20	-5.91	-6.14	-6.44	-6.73

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10^6.

7.8. Radiated Spurious Emission Measurement

7.8.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.8.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

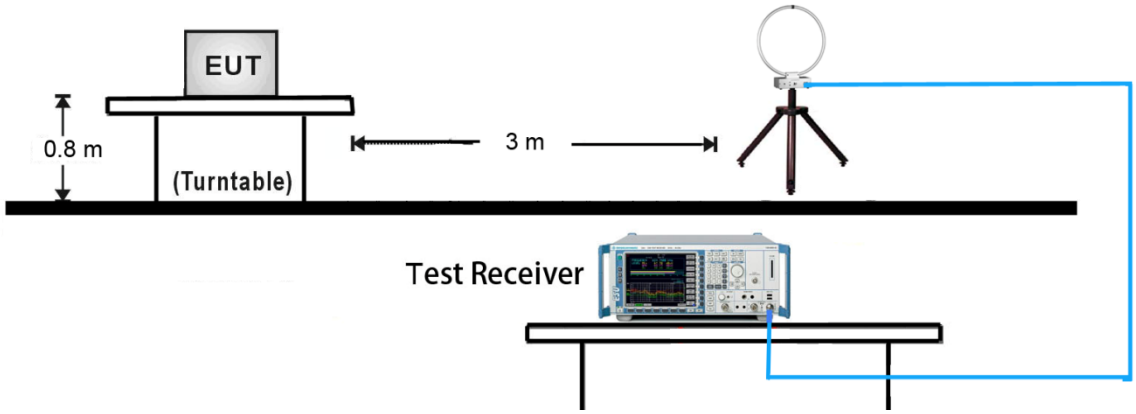
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

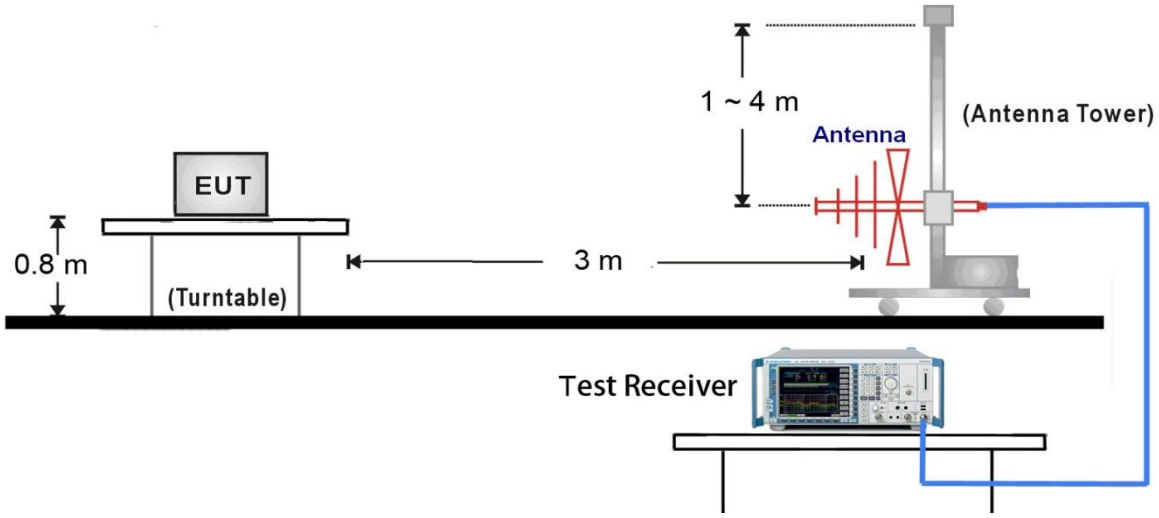
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.8.4.Test Setup

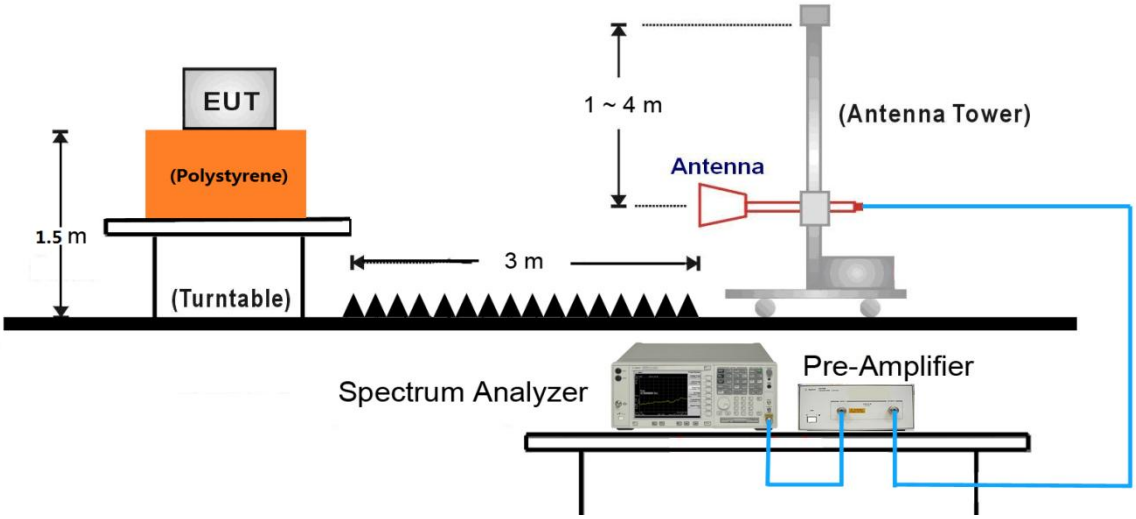
9kHz ~30MHz Test Setup:



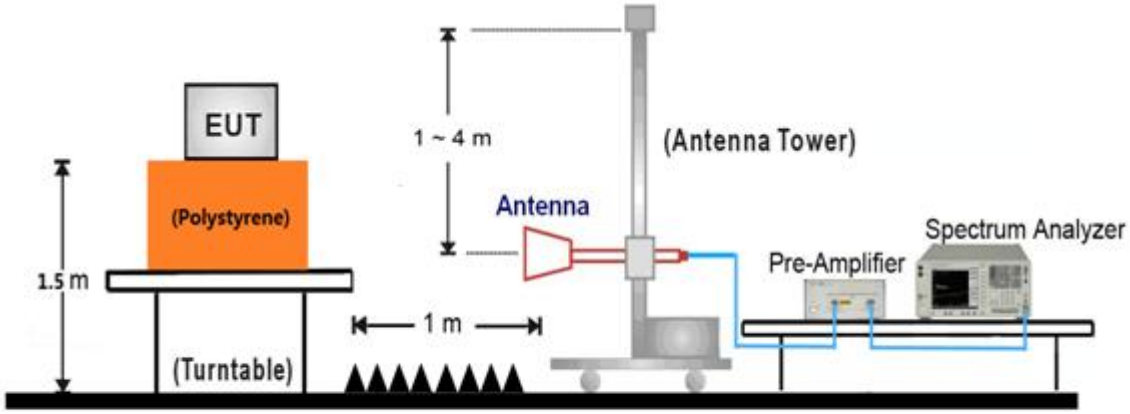
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:



18GHz ~40GHz Test Setup:



Note: This item was performed with the WIFI antenna connected.

7.8.5.Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	36
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8871.0	35.8	13.2	49.0	68.2	-19.2	Peak	Horizontal
*	10239.5	34.6	17.2	51.8	68.2	-16.4	Peak	Horizontal
	10800.5	34.7	18.0	52.7	74.0	-21.3	Peak	Horizontal
	11973.5	35.8	17.3	53.1	74.0	-20.9	Peak	Horizontal
*	7995.5	36.5	13.7	50.2	68.2	-18.0	Peak	Vertical
*	9933.5	34.1	16.7	50.8	68.2	-17.4	Peak	Vertical
	10851.5	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	12152.0	34.8	17.5	52.3	74.0	-21.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	44
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7783.0	36.2	13.1	49.3	68.2	-18.9	Peak	Horizontal
*	9933.5	34.1	16.7	50.8	68.2	-17.4	Peak	Horizontal
	10758.0	35.7	17.8	53.5	74.0	-20.5	Peak	Horizontal
	11999.0	35.1	17.4	52.5	74.0	-21.5	Peak	Horizontal
*	7970.0	35.7	13.6	49.3	68.2	-18.9	Peak	Vertical
*	8539.5	36.9	12.7	49.6	68.2	-18.6	Peak	Vertical
	10885.5	34.8	18.1	52.9	74.0	-21.1	Peak	Vertical
	11922.5	35.3	17.3	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	48
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8786.0	35.7	13.3	49.0	68.2	-19.2	Peak	Horizontal
*	9865.5	34.3	16.7	51.0	68.2	-17.2	Peak	Horizontal
	11132.0	35.0	17.7	52.7	74.0	-21.3	Peak	Horizontal
	12441.0	35.5	17.1	52.6	74.0	-21.4	Peak	Horizontal
*	8599.0	36.2	12.8	49.0	68.2	-19.2	Peak	Vertical
*	10112.0	34.1	16.9	51.0	68.2	-17.2	Peak	Vertical
	11242.5	34.8	17.5	52.3	74.0	-21.7	Peak	Vertical
	12186.0	35.7	17.5	53.2	74.0	-20.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	52
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8684.0	35.5	13.1	48.6	68.2	-19.6	Peak	Horizontal
*	10001.5	34.8	16.7	51.5	68.2	-16.7	Peak	Horizontal
	10953.5	34.5	18.2	52.7	74.0	-21.3	Peak	Horizontal
	12135.0	34.4	17.5	51.9	74.0	-22.1	Peak	Horizontal
*	8803.0	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9908.0	34.5	16.6	51.1	68.2	-17.1	Peak	Vertical
	10809.0	35.0	18.0	53.0	74.0	-21.0	Peak	Vertical
	11999.0	35.4	17.4	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	60
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8905.0	35.7	13.3	49.0	68.2	-19.2	Peak	Horizontal
*	9831.5	34.5	16.6	51.1	68.2	-17.1	Peak	Horizontal
	11548.5	36.7	17.8	54.5	74.0	-19.5	Peak	Horizontal
	12237.0	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	8658.5	34.8	13.0	47.8	68.2	-20.4	Peak	Vertical
*	9908.0	34.3	16.6	50.9	68.2	-17.3	Peak	Vertical
	10919.5	35.2	18.2	53.4	74.0	-20.6	Peak	Vertical
	11761.0	35.5	17.3	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	64
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8820.0	35.4	13.3	48.7	68.2	-19.5	Peak	Horizontal
*	9857.0	32.3	16.7	49.0	68.2	-19.2	Peak	Horizontal
	10783.5	35.3	17.9	53.2	74.0	-20.8	Peak	Horizontal
	12500.5	35.7	17.3	53.0	74.0	-21.0	Peak	Horizontal
*	8743.5	34.6	13.1	47.7	68.2	-20.5	Peak	Vertical
*	9984.5	34.5	16.7	51.2	68.2	-17.0	Peak	Vertical
	10800.5	35.3	18.0	53.3	74.0	-20.7	Peak	Vertical
	12024.5	35.6	17.4	53.0	74.0	-21.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	100
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8854.0	36.1	13.4	49.5	68.2	-18.7	Peak	Horizontal
*	10163.0	34.5	17.0	51.5	68.2	-16.7	Peak	Horizontal
	10834.5	34.3	18.0	52.3	74.0	-21.7	Peak	Horizontal
	11701.5	35.7	17.4	53.1	74.0	-20.9	Peak	Horizontal
*	8582.0	35.5	12.8	48.3	68.2	-19.9	Peak	Vertical
*	9857.0	32.7	16.7	49.4	68.2	-18.8	Peak	Vertical
	10860.0	34.8	18.1	52.9	74.0	-21.1	Peak	Vertical
	11880.0	34.5	17.3	51.8	74.0	-22.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	116
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8633.0	35.5	12.9	48.4	68.2	-19.8	Peak	Horizontal
*	9984.5	34.1	16.7	50.8	68.2	-17.4	Peak	Horizontal
	10996.0	34.4	18.2	52.6	74.0	-21.4	Peak	Horizontal
	12220.0	34.5	17.4	51.9	74.0	-22.1	Peak	Horizontal
*	8786.0	34.4	13.3	47.7	68.2	-20.5	Peak	Vertical
*	9959.0	35.4	16.7	52.1	68.2	-16.1	Peak	Vertical
	10860.0	34.9	18.1	53.0	74.0	-21.0	Peak	Vertical
	11701.5	35.7	17.4	53.1	74.0	-20.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	120
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8879.5	35.8	13.2	49.0	68.2	-19.2	Peak	Horizontal
*	9950.5	34.8	16.7	51.5	68.2	-16.7	Peak	Horizontal
	10962.0	34.2	18.2	52.4	74.0	-21.6	Peak	Horizontal
	12296.5	34.9	17.3	52.2	74.0	-21.8	Peak	Horizontal
*	8888.0	35.2	13.2	48.4	68.2	-19.8	Peak	Vertical
*	10010.0	35.2	16.6	51.8	68.2	-16.4	Peak	Vertical
	10843.0	35.3	18.1	53.4	74.0	-20.6	Peak	Vertical
	12220.0	34.2	17.4	51.6	74.0	-22.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	140
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8786.0	35.2	13.3	48.5	68.2	-19.7	Peak	Horizontal
*	10333.0	34.6	17.3	51.9	68.2	-16.3	Peak	Horizontal
	11166.0	35.3	17.7	53.0	74.0	-21.0	Peak	Horizontal
	12220.0	34.3	17.4	51.7	74.0	-22.3	Peak	Horizontal
*	8590.5	35.7	12.8	48.5	68.2	-19.7	Peak	Vertical
*	9916.5	35.6	16.6	52.2	68.2	-16.0	Peak	Vertical
	10783.5	35.4	17.9	53.3	74.0	-20.7	Peak	Vertical
	12177.5	35.3	17.5	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	144
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8752.0	35.4	13.2	48.6	68.2	-19.6	Peak	Horizontal
*	10197.0	34.5	17.2	51.7	68.2	-16.5	Peak	Horizontal
	10851.5	34.9	18.1	53.0	74.0	-21.0	Peak	Horizontal
	12177.5	34.7	17.5	52.2	74.0	-21.8	Peak	Horizontal
*	8752.0	34.9	13.2	48.1	68.2	-20.1	Peak	Vertical
*	9976.0	34.5	16.7	51.2	68.2	-17.0	Peak	Vertical
	10919.5	34.7	18.2	52.9	74.0	-21.1	Peak	Vertical
	12254.0	34.3	17.4	51.7	74.0	-22.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	149
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8743.5	34.9	13.1	48.0	68.2	-20.2	Peak	Horizontal
*	9678.5	35.6	15.4	51.0	68.2	-17.2	Peak	Horizontal
	10741.0	35.3	17.8	53.1	74.0	-20.9	Peak	Horizontal
	11939.5	34.9	17.3	52.2	74.0	-21.8	Peak	Horizontal
*	8735.0	35.3	13.0	48.3	68.2	-19.9	Peak	Vertical
*	10299.0	34.8	17.3	52.1	68.2	-16.1	Peak	Vertical
	10741.0	35.3	17.8	53.1	74.0	-20.9	Peak	Vertical
	12330.5	35.7	17.3	53.0	74.0	-21.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	157
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8633.0	35.9	12.9	48.8	68.2	-19.4	Peak	Horizontal
*	10299.0	34.8	17.3	52.1	68.2	-16.1	Peak	Horizontal
	10877.0	34.7	18.1	52.8	74.0	-21.2	Peak	Horizontal
	12245.5	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	8871.0	35.2	13.2	48.4	68.2	-19.8	Peak	Vertical
*	10214.0	36.1	17.1	53.2	68.2	-15.0	Peak	Vertical
	10911.0	34.1	18.2	52.3	74.0	-21.7	Peak	Vertical
	12262.5	34.6	17.4	52.0	74.0	-22.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11a	Test Channel:	165
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8735.0	35.2	13.0	48.2	68.2	-20.0	Peak	Horizontal
*	9967.5	35.0	16.7	51.7	68.2	-16.5	Peak	Horizontal
	10817.5	34.5	18.0	52.5	74.0	-21.5	Peak	Horizontal
	12339.0	35.6	17.3	52.9	74.0	-21.1	Peak	Horizontal
*	8811.5	34.5	13.3	47.8	68.2	-20.4	Peak	Vertical
*	9899.5	34.2	16.6	50.8	68.2	-17.4	Peak	Vertical
	10741.0	35.3	17.8	53.1	74.0	-20.9	Peak	Vertical
	12007.5	34.8	17.4	52.2	74.0	-21.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	36
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8701.0	35.5	13.0	48.5	68.2	-19.7	Peak	Horizontal
*	10018.5	34.9	16.6	51.5	68.2	-16.7	Peak	Horizontal
	10860.0	35.6	18.1	53.7	74.0	-20.3	Peak	Horizontal
	11990.5	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	8692.5	36.1	13.0	49.1	68.2	-19.1	Peak	Vertical
*	9942.0	34.9	16.8	51.7	68.2	-16.5	Peak	Vertical
	10953.5	35.1	18.2	53.3	74.0	-20.7	Peak	Vertical
	12560.0	35.8	17.3	53.1	74.0	-20.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	44
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8845.5	37.1	13.3	50.4	68.2	-17.8	Peak	Horizontal
*	10163.0	35.6	17.0	52.6	68.2	-15.6	Peak	Horizontal
	10800.5	35.0	18.0	53.0	74.0	-21.0	Peak	Horizontal
	11693.0	35.1	17.5	52.6	74.0	-21.4	Peak	Horizontal
*	8845.5	37.1	13.3	50.4	68.2	-17.8	Peak	Vertical
*	10163.0	35.6	17.0	52.6	68.2	-15.6	Peak	Vertical
	10843.0	35.8	18.1	53.9	74.0	-20.1	Peak	Vertical
	12339.0	36.2	17.3	53.5	74.0	-20.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	48
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8879.5	36.0	13.2	49.2	68.2	-19.0	Peak	Horizontal
*	10154.5	35.0	17.0	52.0	68.2	-16.2	Peak	Horizontal
	10902.5	35.7	18.1	53.8	74.0	-20.2	Peak	Horizontal
	12169.0	35.4	17.5	52.9	74.0	-21.1	Peak	Horizontal
*	8879.5	36.0	13.2	49.2	68.2	-19.0	Peak	Vertical
*	10239.5	35.1	17.2	52.3	68.2	-15.9	Peak	Vertical
	10902.5	35.7	18.1	53.8	74.0	-20.2	Peak	Vertical
	12169.0	35.4	17.5	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	52
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8777.5	35.3	13.2	48.5	68.2	-19.7	Peak	Horizontal
*	10120.5	35.4	16.9	52.3	68.2	-15.9	Peak	Horizontal
	10877.0	35.4	18.1	53.5	74.0	-20.5	Peak	Horizontal
	12534.5	35.3	17.3	52.6	74.0	-21.4	Peak	Horizontal
*	8692.5	36.3	13.0	49.3	68.2	-18.9	Peak	Vertical
*	9925.0	35.5	16.6	52.1	68.2	-16.1	Peak	Vertical
	10970.5	35.7	18.2	53.9	74.0	-20.1	Peak	Vertical
	12271.0	35.7	17.4	53.1	74.0	-20.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	60
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8854.0	36.1	13.4	49.5	68.2	-18.7	Peak	Horizontal
*	10035.5	35.3	16.7	52.0	68.2	-16.2	Peak	Horizontal
	10860.0	35.7	18.1	53.8	74.0	-20.2	Peak	Horizontal
	12602.5	36.1	17.6	53.7	74.0	-20.3	Peak	Horizontal
*	8837.0	35.8	13.2	49.0	68.2	-19.2	Peak	Vertical
*	9967.5	35.1	16.7	51.8	68.2	-16.4	Peak	Vertical
	10868.5	36.2	18.1	54.3	74.0	-19.7	Peak	Vertical
	12203.0	35.4	17.4	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	64
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8590.5	36.9	12.8	49.7	68.2	-18.5	Peak	Horizontal
*	9899.5	35.1	16.6	51.7	68.2	-16.5	Peak	Horizontal
	10970.5	35.4	18.2	53.6	74.0	-20.4	Peak	Horizontal
	12169.0	35.0	17.5	52.5	74.0	-21.5	Peak	Horizontal
*	8675.5	36.4	13.0	49.4	68.2	-18.8	Peak	Vertical
*	9823.0	35.2	16.5	51.7	68.2	-16.5	Peak	Vertical
	10877.0	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	12568.5	35.6	17.4	53.0	74.0	-21.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	100
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8905.0	35.6	13.3	48.9	68.2	-19.3	Peak	Horizontal
*	9933.5	34.9	16.7	51.6	68.2	-16.6	Peak	Horizontal
	10834.5	35.3	18.0	53.3	74.0	-20.7	Peak	Horizontal
	11939.5	35.2	17.3	52.5	74.0	-21.5	Peak	Horizontal
*	8862.5	35.7	13.3	49.0	68.2	-19.2	Peak	Vertical
*	9925.0	35.4	16.6	52.0	68.2	-16.2	Peak	Vertical
	10902.5	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	12441.0	35.2	17.1	52.3	74.0	-21.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	116
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8871.0	35.8	13.2	49.0	68.2	-19.2	Peak	Horizontal
*	10001.5	35.8	16.7	52.5	68.2	-15.7	Peak	Horizontal
	10877.0	35.5	18.1	53.6	74.0	-20.4	Peak	Horizontal
	12543.0	36.4	17.3	53.7	74.0	-20.3	Peak	Horizontal
*	8896.5	36.7	13.2	49.9	68.2	-18.3	Peak	Vertical
*	10180.0	35.6	17.1	52.7	68.2	-15.5	Peak	Vertical
	11140.5	36.2	17.7	53.9	74.0	-20.1	Peak	Vertical
	12483.5	36.2	17.4	53.6	74.0	-20.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	120
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8888.0	35.6	13.2	48.8	68.2	-19.4	Peak	Horizontal
*	9984.5	35.1	16.7	51.8	68.2	-16.4	Peak	Horizontal
	10945.0	35.2	18.3	53.5	74.0	-20.5	Peak	Horizontal
	12509.0	35.5	17.2	52.7	74.0	-21.3	Peak	Horizontal
*	8828.5	36.2	13.3	49.5	68.2	-18.7	Peak	Vertical
*	10154.5	35.4	17.0	52.4	68.2	-15.8	Peak	Vertical
	11310.5	35.5	17.5	53.0	74.0	-21.0	Peak	Vertical
	12594.0	35.4	17.6	53.0	74.0	-21.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	140
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8607.5	36.7	12.9	49.6	68.2	-18.6	Peak	Horizontal
*	9865.5	34.4	16.7	51.1	68.2	-17.1	Peak	Horizontal
	10860.0	35.5	18.1	53.6	74.0	-20.4	Peak	Horizontal
	12228.5	35.6	17.4	53.0	74.0	-21.0	Peak	Horizontal
*	8939.0	36.6	13.3	49.9	68.2	-18.3	Peak	Vertical
*	9848.5	35.2	16.7	51.9	68.2	-16.3	Peak	Vertical
	10792.0	35.7	18.0	53.7	74.0	-20.3	Peak	Vertical
	11591.0	35.5	17.7	53.2	74.0	-20.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	144
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8879.5	35.8	13.2	49.0	68.2	-19.2	Peak	Horizontal
*	9644.5	36.4	15.5	51.9	68.2	-16.3	Peak	Horizontal
	10834.5	35.4	18.0	53.4	74.0	-20.6	Peak	Horizontal
	11684.5	36.0	17.5	53.5	74.0	-20.5	Peak	Horizontal
*	8769.0	35.6	13.2	48.8	68.2	-19.4	Peak	Vertical
*	10222.5	35.8	17.1	52.9	68.2	-15.3	Peak	Vertical
	11123.5	35.8	17.7	53.5	74.0	-20.5	Peak	Vertical
	12118.0	34.9	17.5	52.4	74.0	-21.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	149
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8692.5	33.8	13.0	46.8	68.2	-21.4	Peak	Horizontal
*	9857.0	34.5	16.7	51.2	68.2	-17.0	Peak	Horizontal
	11123.5	35.5	17.7	53.2	74.0	-20.8	Peak	Horizontal
	12033.0	34.3	17.4	51.7	74.0	-22.3	Peak	Horizontal
*	8777.5	35.7	13.2	48.9	68.2	-19.3	Peak	Vertical
*	10103.5	34.8	16.9	51.7	68.2	-16.5	Peak	Vertical
	10843.0	35.3	18.1	53.4	74.0	-20.6	Peak	Vertical
	11948.0	35.4	17.3	52.7	74.0	-21.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	157
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8820.0	35.7	13.3	49.0	68.2	-19.2	Peak	Horizontal
*	9959.0	34.7	16.7	51.4	68.2	-16.8	Peak	Horizontal
	11098.0	36.4	17.8	54.2	74.0	-19.8	Peak	Horizontal
	12628.0	35.5	17.7	53.2	74.0	-20.8	Peak	Horizontal
*	8905.0	36.0	13.3	49.3	68.2	-18.9	Peak	Vertical
*	10171.5	35.0	17.0	52.0	68.2	-16.2	Peak	Vertical
	10953.5	35.0	18.2	53.2	74.0	-20.8	Peak	Vertical
	11956.5	35.0	17.3	52.3	74.0	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT20	Test Channel:	165
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8854.0	35.6	13.4	49.0	68.2	-19.2	Peak	Horizontal
*	10010.0	34.5	16.6	51.1	68.2	-17.1	Peak	Horizontal
	10970.5	35.0	18.2	53.2	74.0	-20.8	Peak	Horizontal
	12007.5	34.8	17.4	52.2	74.0	-21.8	Peak	Horizontal
*	8641.5	35.9	12.9	48.8	68.2	-19.4	Peak	Vertical
*	9933.5	35.0	16.7	51.7	68.2	-16.5	Peak	Vertical
	10817.5	34.9	18.0	52.9	74.0	-21.1	Peak	Vertical
	11693.0	35.4	17.5	52.9	74.0	-21.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	38
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8845.5	35.4	13.3	48.7	68.2	-19.5	Peak	Horizontal
*	9865.5	35.5	16.7	52.2	68.2	-16.0	Peak	Horizontal
	10800.5	34.9	18.0	52.9	74.0	-21.1	Peak	Horizontal
	12211.5	34.7	17.4	52.1	74.0	-21.9	Peak	Horizontal
*	8692.5	35.7	13.0	48.7	68.2	-19.5	Peak	Vertical
*	10154.5	34.5	17.0	51.5	68.2	-16.7	Peak	Vertical
	11497.5	35.8	17.8	53.6	74.0	-20.4	Peak	Vertical
	12007.5	34.7	17.4	52.1	74.0	-21.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	46
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8718.0	35.6	13.0	48.6	68.2	-19.6	Peak	Horizontal
*	9967.5	34.5	16.7	51.2	68.2	-17.0	Peak	Horizontal
	10860.0	35.1	18.1	53.2	74.0	-20.8	Peak	Horizontal
	11591.0	34.6	17.7	52.3	74.0	-21.7	Peak	Horizontal
*	8803.0	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9899.5	34.8	16.6	51.4	68.2	-16.8	Peak	Vertical
	10902.5	35.0	18.1	53.1	74.0	-20.9	Peak	Vertical
	11693.0	34.9	17.5	52.4	74.0	-21.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	54
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8675.5	35.6	13.0	48.6	68.2	-19.6	Peak	Horizontal
*	9984.5	34.5	16.7	51.2	68.2	-17.0	Peak	Horizontal
	10894.0	35.2	18.1	53.3	74.0	-20.7	Peak	Horizontal
	12067.0	34.5	17.5	52.0	74.0	-22.0	Peak	Horizontal
*	8777.5	35.0	13.2	48.2	68.2	-20.0	Peak	Vertical
*	10248.0	34.9	17.2	52.1	68.2	-16.1	Peak	Vertical
	11004.5	35.5	18.1	53.6	74.0	-20.4	Peak	Vertical
	12160.5	35.2	17.5	52.7	74.0	-21.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	62
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8590.5	36.5	12.8	49.3	68.2	-18.9	Peak	Horizontal
*	9959.0	34.7	16.7	51.4	68.2	-16.8	Peak	Horizontal
	10877.0	36.2	18.1	54.3	74.0	-19.7	Peak	Horizontal
	12492.0	35.0	17.4	52.4	74.0	-21.6	Peak	Horizontal
*	8590.5	36.3	12.8	49.1	68.2	-19.1	Peak	Vertical
*	9984.5	35.3	16.7	52.0	68.2	-16.2	Peak	Vertical
	11667.5	36.4	17.6	54.0	74.0	-20.0	Peak	Vertical
	12228.5	34.9	17.4	52.3	74.0	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	102
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8675.5	36.2	13.0	49.2	68.2	-19.0	Peak	Horizontal
*	9967.5	34.7	16.7	51.4	68.2	-16.8	Peak	Horizontal
	10843.0	35.0	18.1	53.1	74.0	-20.9	Peak	Horizontal
	12186.0	34.9	17.5	52.4	74.0	-21.6	Peak	Horizontal
*	8905.0	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9976.0	35.1	16.7	51.8	68.2	-16.4	Peak	Vertical
	10860.0	35.0	18.1	53.1	74.0	-20.9	Peak	Vertical
	12135.0	36.1	17.5	53.6	74.0	-20.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	110
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8879.5	36.4	13.2	49.6	68.2	-18.6	Peak	Horizontal
*	10018.5	35.1	16.6	51.7	68.2	-16.5	Peak	Horizontal
	10681.5	35.1	17.7	52.8	74.0	-21.2	Peak	Horizontal
	12033.0	35.9	17.4	53.3	74.0	-20.7	Peak	Horizontal
*	8624.5	35.4	12.9	48.3	68.2	-19.9	Peak	Vertical
*	9746.5	34.9	16.1	51.0	68.2	-17.2	Peak	Vertical
	10851.5	35.2	18.1	53.3	74.0	-20.7	Peak	Vertical
	11642.0	35.9	17.6	53.5	74.0	-20.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	118
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8913.5	36.3	13.3	49.6	68.2	-18.6	Peak	Horizontal
*	10239.5	35.4	17.2	52.6	68.2	-15.6	Peak	Horizontal
	11531.5	35.8	17.8	53.6	74.0	-20.4	Peak	Horizontal
	12636.5	34.7	17.7	52.4	74.0	-21.6	Peak	Horizontal
*	8811.5	36.2	13.3	49.5	68.2	-18.7	Peak	Vertical
*	9976.0	35.3	16.7	52.0	68.2	-16.2	Peak	Vertical
	10877.0	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	11684.5	36.1	17.5	53.6	74.0	-20.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	134
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8820.0	36.2	13.3	49.5	68.2	-18.7	Peak	Horizontal
*	9712.5	36.1	15.6	51.7	68.2	-16.5	Peak	Horizontal
	11659.0	36.0	17.6	53.6	74.0	-20.4	Peak	Horizontal
	12237.0	35.2	17.4	52.6	74.0	-21.4	Peak	Horizontal
*	8854.0	35.7	13.4	49.1	68.2	-19.1	Peak	Vertical
*	10197.0	35.5	17.2	52.7	68.2	-15.5	Peak	Vertical
	10800.5	35.0	18.0	53.0	74.0	-21.0	Peak	Vertical
	12152.0	34.4	17.5	51.9	74.0	-22.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	142
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8726.5	36.4	13.0	49.4	68.2	-18.8	Peak	Horizontal
*	10180.0	34.6	17.1	51.7	68.2	-16.5	Peak	Horizontal
	10834.5	35.2	18.0	53.2	74.0	-20.8	Peak	Horizontal
	11914.0	34.8	17.3	52.1	74.0	-21.9	Peak	Horizontal
*	8854.0	36.3	13.4	49.7	68.2	-18.5	Peak	Vertical
*	10163.0	34.7	17.0	51.7	68.2	-16.5	Peak	Vertical
	11429.5	36.3	17.8	54.1	74.0	-19.9	Peak	Vertical
	12041.5	34.9	17.4	52.3	74.0	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	151
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8735.0	34.2	13.0	47.2	68.2	-21.0	Peak	Horizontal
*	10299.0	34.8	17.3	52.1	68.2	-16.1	Peak	Horizontal
	10851.5	35.3	18.1	53.4	74.0	-20.6	Peak	Horizontal
	12143.5	36.4	17.5	53.9	74.0	-20.1	Peak	Horizontal
*	8735.0	35.0	13.0	48.0	68.2	-20.2	Peak	Vertical
*	10061.0	35.2	16.9	52.1	68.2	-16.1	Peak	Vertical
	11353.0	36.3	17.6	53.9	74.0	-20.1	Peak	Vertical
	12016.0	35.3	17.4	52.7	74.0	-21.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11n-HT40	Test Channel:	159
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8701.0	35.3	13.0	48.3	68.2	-19.9	Peak	Horizontal
*	9984.5	35.0	16.7	51.7	68.2	-16.5	Peak	Horizontal
	10902.5	35.0	18.1	53.1	74.0	-20.9	Peak	Horizontal
	11982.0	34.7	17.4	52.1	74.0	-21.9	Peak	Horizontal
*	8845.5	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9942.0	35.2	16.8	52.0	68.2	-16.2	Peak	Vertical
	11038.5	35.1	17.9	53.0	74.0	-21.0	Peak	Vertical
	12262.5	35.1	17.4	52.5	74.0	-21.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	36
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8675.5	36.0	13.0	49.0	68.2	-19.2	Peak	Horizontal
*	9993.0	35.3	16.7	52.0	68.2	-16.2	Peak	Horizontal
	10817.5	35.3	18.0	53.3	74.0	-20.7	Peak	Horizontal
	11667.5	35.1	17.6	52.7	74.0	-21.3	Peak	Horizontal
*	8692.5	35.6	13.0	48.6	68.2	-19.6	Peak	Vertical
*	10095.0	35.2	16.9	52.1	68.2	-16.1	Peak	Vertical
	10885.5	35.0	18.1	53.1	74.0	-20.9	Peak	Vertical
	12152.0	35.1	17.5	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	44
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8769.0	34.8	13.2	48.0	68.2	-20.2	Peak	Horizontal
*	10205.5	35.0	17.1	52.1	68.2	-16.1	Peak	Horizontal
	10851.5	35.1	18.1	53.2	74.0	-20.8	Peak	Horizontal
	12050.0	35.2	17.4	52.6	74.0	-21.4	Peak	Horizontal
*	8871.0	36.0	13.2	49.2	68.2	-19.0	Peak	Vertical
*	10222.5	35.0	17.1	52.1	68.2	-16.1	Peak	Vertical
	10851.5	35.2	18.1	53.3	74.0	-20.7	Peak	Vertical
	11633.5	35.7	17.6	53.3	74.0	-20.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	48
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8650.0	35.3	13.0	48.3	68.2	-19.9	Peak	Horizontal
*	10112.0	35.0	16.9	51.9	68.2	-16.3	Peak	Horizontal
	11344.5	34.4	17.6	52.0	74.0	-22.0	Peak	Horizontal
	12313.5	35.0	17.3	52.3	74.0	-21.7	Peak	Horizontal
*	8803.0	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9712.5	35.3	15.6	50.9	68.2	-17.3	Peak	Vertical
	10851.5	36.9	18.1	55.0	74.0	-19.0	Peak	Vertical
	11914.0	35.5	17.3	52.8	74.0	-21.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	52
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8862.5	35.9	13.3	49.2	68.2	-19.0	Peak	Horizontal
*	9865.5	35.9	16.7	52.6	68.2	-15.6	Peak	Horizontal
	10962.0	34.5	18.2	52.7	74.0	-21.3	Peak	Horizontal
	12092.5	35.2	17.5	52.7	74.0	-21.3	Peak	Horizontal
*	8879.5	35.8	13.2	49.0	68.2	-19.2	Peak	Vertical
*	9823.0	34.6	16.5	51.1	68.2	-17.1	Peak	Vertical
	10775.0	35.0	17.9	52.9	74.0	-21.1	Peak	Vertical
	12109.5	34.6	17.5	52.1	74.0	-21.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	60
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8811.5	35.9	13.3	49.2	68.2	-19.0	Peak	Horizontal
*	9925.0	35.0	16.6	51.6	68.2	-16.6	Peak	Horizontal
	10783.5	35.0	17.9	52.9	74.0	-21.1	Peak	Horizontal
	11693.0	35.2	17.5	52.7	74.0	-21.3	Peak	Horizontal
*	8837.0	35.5	13.2	48.7	68.2	-19.5	Peak	Vertical
*	10494.5	36.2	17.5	53.7	68.2	-14.5	Peak	Vertical
	11633.5	35.7	17.6	53.3	74.0	-20.7	Peak	Vertical
	12177.5	35.3	17.5	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	64
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8641.5	35.5	12.9	48.4	68.2	-19.8	Peak	Horizontal
*	10214.0	35.5	17.1	52.6	68.2	-15.6	Peak	Horizontal
	10962.0	35.1	18.2	53.3	74.0	-20.7	Peak	Horizontal
	12186.0	35.1	17.5	52.6	74.0	-21.4	Peak	Horizontal
*	8675.5	36.0	13.0	49.0	68.2	-19.2	Peak	Vertical
*	10095.0	36.0	16.9	52.9	68.2	-15.3	Peak	Vertical
	11429.5	36.0	17.8	53.8	74.0	-20.2	Peak	Vertical
	12390.0	35.1	17.2	52.3	74.0	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	100
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8590.5	36.9	12.8	49.7	68.2	-18.5	Peak	Horizontal
*	10222.5	35.4	17.1	52.5	68.2	-15.7	Peak	Horizontal
	11183.0	35.4	17.6	53.0	74.0	-21.0	Peak	Horizontal
	12254.0	35.5	17.4	52.9	74.0	-21.1	Peak	Horizontal
*	8726.5	36.1	13.0	49.1	68.2	-19.1	Peak	Vertical
*	9857.0	35.0	16.7	51.7	68.2	-16.5	Peak	Vertical
	10868.5	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	12526.0	35.6	17.3	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	116
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8701.0	35.1	13.0	48.1	68.2	-20.1	Peak	Horizontal
*	9865.5	34.8	16.7	51.5	68.2	-16.7	Peak	Horizontal
	11404.0	35.9	17.7	53.6	74.0	-20.4	Peak	Horizontal
	11897.0	35.0	17.3	52.3	74.0	-21.7	Peak	Horizontal
*	8913.5	35.3	13.3	48.6	68.2	-19.6	Peak	Vertical
*	10358.5	35.5	17.4	52.9	68.2	-15.3	Peak	Vertical
	10885.5	35.0	18.1	53.1	74.0	-20.9	Peak	Vertical
	12296.5	35.0	17.3	52.3	74.0	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	120
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8854.0	35.3	13.4	48.7	68.2	-19.5	Peak	Horizontal
*	10154.5	34.8	17.0	51.8	68.2	-16.4	Peak	Horizontal
	10928.0	35.4	18.2	53.6	74.0	-20.4	Peak	Horizontal
	12160.5	35.2	17.5	52.7	74.0	-21.3	Peak	Horizontal
*	8820.0	36.4	13.3	49.7	68.2	-18.5	Peak	Vertical
*	9942.0	35.2	16.8	52.0	68.2	-16.2	Peak	Vertical
	10851.5	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	11854.5	35.3	17.2	52.5	74.0	-21.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	140
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8786.0	36.0	13.3	49.3	68.2	-18.9	Peak	Horizontal
*	9678.5	36.3	15.4	51.7	68.2	-16.5	Peak	Horizontal
	10885.5	35.3	18.1	53.4	74.0	-20.6	Peak	Horizontal
	12305.0	35.1	17.3	52.4	74.0	-21.6	Peak	Horizontal
*	8854.0	35.3	13.4	48.7	68.2	-19.5	Peak	Vertical
*	9840.0	34.8	16.7	51.5	68.2	-16.7	Peak	Vertical
	10809.0	36.1	18.0	54.1	74.0	-19.9	Peak	Vertical
	11922.5	35.5	17.3	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	144
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8837.0	36.4	13.2	49.6	68.2	-18.6	Peak	Horizontal
*	9899.5	33.5	16.6	50.1	68.2	-18.1	Peak	Horizontal
	10826.0	35.3	18.0	53.3	74.0	-20.7	Peak	Horizontal
	12118.0	34.5	17.5	52.0	74.0	-22.0	Peak	Horizontal
*	8624.5	35.9	12.9	48.8	68.2	-19.4	Peak	Vertical
*	9721.0	35.5	15.7	51.2	68.2	-17.0	Peak	Vertical
	10860.0	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	11863.0	35.7	17.2	52.9	74.0	-21.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	149
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8786.0	35.5	13.3	48.8	68.2	-19.4	Peak	Horizontal
*	10095.0	34.8	16.9	51.7	68.2	-16.5	Peak	Horizontal
	10936.5	35.1	18.3	53.4	74.0	-20.6	Peak	Horizontal
	11684.5	36.0	17.5	53.5	74.0	-20.5	Peak	Horizontal
*	8624.5	36.7	12.9	49.6	68.2	-18.6	Peak	Vertical
*	9840.0	36.5	16.7	53.2	68.2	-15.0	Peak	Vertical
	11455.0	35.9	17.8	53.7	74.0	-20.3	Peak	Vertical
	12577.0	35.3	17.5	52.8	74.0	-21.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	157
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8658.5	35.5	13.0	48.5	68.2	-19.7	Peak	Horizontal
*	10086.5	34.7	16.9	51.6	68.2	-16.6	Peak	Horizontal
	10758.0	35.4	17.8	53.2	74.0	-20.8	Peak	Horizontal
	12211.5	35.2	17.4	52.6	74.0	-21.4	Peak	Horizontal
*	8735.0	35.7	13.0	48.7	68.2	-19.5	Peak	Vertical
*	10188.5	35.8	17.1	52.9	68.2	-15.3	Peak	Vertical
	10868.5	35.6	18.1	53.7	74.0	-20.3	Peak	Vertical
	12033.0	35.5	17.4	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT20	Test Channel:	165
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8803.0	35.8	13.3	49.1	68.2	-19.1	Peak	Horizontal
*	9993.0	35.0	16.7	51.7	68.2	-16.5	Peak	Horizontal
	10953.5	35.9	18.2	54.1	74.0	-19.9	Peak	Horizontal
	12288.0	35.1	17.3	52.4	74.0	-21.6	Peak	Horizontal
*	8692.5	35.8	13.0	48.8	68.2	-19.4	Peak	Vertical
*	9823.0	34.8	16.5	51.3	68.2	-16.9	Peak	Vertical
	11574.0	36.3	17.7	54.0	74.0	-20.0	Peak	Vertical
	12492.0	34.5	17.4	51.9	74.0	-22.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	38
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8803.0	36.0	13.3	49.3	68.2	-18.9	Peak	Horizontal
*	9857.0	34.5	16.7	51.2	68.2	-17.0	Peak	Horizontal
	10758.0	35.2	17.8	53.0	74.0	-21.0	Peak	Horizontal
	11633.5	35.8	17.6	53.4	74.0	-20.6	Peak	Horizontal
*	8803.0	35.7	13.3	49.0	68.2	-19.2	Peak	Vertical
*	10129.0	35.5	16.9	52.4	68.2	-15.8	Peak	Vertical
	10877.0	34.9	18.1	53.0	74.0	-21.0	Peak	Vertical
	12305.0	35.7	17.3	53.0	74.0	-21.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	46
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8811.5	36.8	13.3	50.1	68.2	-18.1	Peak	Horizontal
*	9882.5	34.6	16.7	51.3	68.2	-16.9	Peak	Horizontal
	10741.0	34.8	17.8	52.6	74.0	-21.4	Peak	Horizontal
	11642.0	35.7	17.6	53.3	74.0	-20.7	Peak	Horizontal
*	8820.0	35.6	13.3	48.9	68.2	-19.3	Peak	Vertical
*	9976.0	35.5	16.7	52.2	68.2	-16.0	Peak	Vertical
	10766.5	36.3	17.9	54.2	74.0	-19.8	Peak	Vertical
	11582.5	35.7	17.7	53.4	74.0	-20.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	54
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8820.0	36.2	13.3	49.5	68.2	-18.7	Peak	Horizontal
*	9942.0	34.6	16.8	51.4	68.2	-16.8	Peak	Horizontal
	11429.5	35.9	17.8	53.7	74.0	-20.3	Peak	Horizontal
	12594.0	35.2	17.6	52.8	74.0	-21.2	Peak	Horizontal
*	8811.5	35.4	13.3	48.7	68.2	-19.5	Peak	Vertical
*	10273.5	35.1	17.2	52.3	68.2	-15.9	Peak	Vertical
	10783.5	35.3	17.9	53.2	74.0	-20.8	Peak	Vertical
	11642.0	35.2	17.6	52.8	74.0	-21.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	62
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8624.5	37.0	12.9	49.9	68.2	-18.3	Peak	Horizontal
*	10001.5	35.6	16.7	52.3	68.2	-15.9	Peak	Horizontal
	11123.5	35.3	17.7	53.0	74.0	-21.0	Peak	Horizontal
	12645.0	36.1	17.7	53.8	74.0	-20.2	Peak	Horizontal
*	8854.0	35.7	13.4	49.1	68.2	-19.1	Peak	Vertical
*	10239.5	35.4	17.2	52.6	68.2	-15.6	Peak	Vertical
	10902.5	34.8	18.1	52.9	74.0	-21.1	Peak	Vertical
	12041.5	35.8	17.4	53.2	74.0	-20.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	102
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8862.5	35.9	13.3	49.2	68.2	-19.0	Peak	Horizontal
*	10316.0	34.7	17.4	52.1	68.2	-16.1	Peak	Horizontal
	10826.0	35.9	18.0	53.9	74.0	-20.1	Peak	Horizontal
	12194.5	35.6	17.4	53.0	74.0	-21.0	Peak	Horizontal
*	8616.0	36.1	12.9	49.0	68.2	-19.2	Peak	Vertical
*	10222.5	34.7	17.1	51.8	68.2	-16.4	Peak	Vertical
	10877.0	34.2	18.1	52.3	74.0	-21.7	Peak	Vertical
	12203.0	35.1	17.4	52.5	74.0	-21.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	110
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8684.0	36.1	13.1	49.2	68.2	-19.0	Peak	Horizontal
*	10222.5	34.9	17.1	52.0	68.2	-16.2	Peak	Horizontal
	10962.0	35.3	18.2	53.5	74.0	-20.5	Peak	Horizontal
	12075.5	35.0	17.5	52.5	74.0	-21.5	Peak	Horizontal
*	8650.0	35.6	13.0	48.6	68.2	-19.6	Peak	Vertical
*	10078.0	35.4	17.0	52.4	68.2	-15.8	Peak	Vertical
	10766.5	35.4	17.9	53.3	74.0	-20.7	Peak	Vertical
	11931.0	35.0	17.3	52.3	74.0	-21.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	118
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8718.0	35.9	13.0	48.9	68.2	-19.3	Peak	Horizontal
*	10035.5	35.1	16.7	51.8	68.2	-16.4	Peak	Horizontal
	10800.5	35.5	18.0	53.5	74.0	-20.5	Peak	Horizontal
	12152.0	34.9	17.5	52.4	74.0	-21.6	Peak	Horizontal
*	8752.0	35.9	13.2	49.1	68.2	-19.1	Peak	Vertical
*	9993.0	35.9	16.7	52.6	68.2	-15.6	Peak	Vertical
	11319.0	35.1	17.6	52.7	74.0	-21.3	Peak	Vertical
	12313.5	35.2	17.3	52.5	74.0	-21.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	134
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8684.0	36.4	13.1	49.5	68.2	-18.7	Peak	Horizontal
*	9891.0	34.8	16.6	51.4	68.2	-16.8	Peak	Horizontal
	10860.0	35.8	18.1	53.9	74.0	-20.1	Peak	Horizontal
	12245.5	35.5	17.4	52.9	74.0	-21.1	Peak	Horizontal
*	8820.0	35.7	13.3	49.0	68.2	-19.2	Peak	Vertical
*	9755.0	35.8	16.2	52.0	68.2	-16.2	Peak	Vertical
	10877.0	35.2	18.1	53.3	74.0	-20.7	Peak	Vertical
	11990.5	35.2	17.4	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	142
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8854.0	35.5	13.4	48.9	68.2	-19.3	Peak	Horizontal
*	9746.5	35.4	16.1	51.5	68.2	-16.7	Peak	Horizontal
	10766.5	36.3	17.9	54.2	74.0	-19.8	Peak	Horizontal
	11650.5	35.5	17.6	53.1	74.0	-20.9	Peak	Horizontal
*	8879.5	35.8	13.2	49.0	68.2	-19.2	Peak	Vertical
*	9874.0	35.1	16.8	51.9	68.2	-16.3	Peak	Vertical
	10928.0	34.8	18.2	53.0	74.0	-21.0	Peak	Vertical
	12058.5	33.9	17.5	51.4	74.0	-22.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	151
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8658.5	36.9	13.0	49.9	68.2	-18.3	Peak	Horizontal
*	10018.5	35.4	16.6	52.0	68.2	-16.2	Peak	Horizontal
	10877.0	35.6	18.1	53.7	74.0	-20.3	Peak	Horizontal
	12194.5	35.3	17.4	52.7	74.0	-21.3	Peak	Horizontal
*	8862.5	36.1	13.3	49.4	68.2	-18.8	Peak	Vertical
*	9865.5	35.0	16.7	51.7	68.2	-16.5	Peak	Vertical
	10979.0	35.1	18.2	53.3	74.0	-20.7	Peak	Vertical
	12084.0	35.0	17.5	52.5	74.0	-21.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT40	Test Channel:	159
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8709.5	36.2	13.0	49.2	68.2	-19.0	Peak	Horizontal
*	9848.5	35.0	16.7	51.7	68.2	-16.5	Peak	Horizontal
	10953.5	35.4	18.2	53.6	74.0	-20.4	Peak	Horizontal
	11914.0	36.0	17.3	53.3	74.0	-20.7	Peak	Horizontal
*	8837.0	36.4	13.2	49.6	68.2	-18.6	Peak	Vertical
*	10154.5	35.7	17.0	52.7	68.2	-15.5	Peak	Vertical
	10783.5	35.6	17.9	53.5	74.0	-20.5	Peak	Vertical
	12186.0	35.8	17.5	53.3	74.0	-20.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	42
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8811.5	35.9	13.3	49.2	68.2	-19.0	Peak	Horizontal
*	9950.5	35.5	16.7	52.2	68.2	-16.0	Peak	Horizontal
	10741.0	35.6	17.8	53.4	74.0	-20.6	Peak	Horizontal
	12254.0	35.6	17.4	53.0	74.0	-21.0	Peak	Horizontal
*	8684.0	35.9	13.1	49.0	68.2	-19.2	Peak	Vertical
*	9848.5	34.9	16.7	51.6	68.2	-16.6	Peak	Vertical
	10851.5	35.2	18.1	53.3	74.0	-20.7	Peak	Vertical
	12381.5	35.6	17.2	52.8	74.0	-21.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	58
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8675.5	35.6	13.0	48.6	68.2	-19.6	Peak	Horizontal
*	9857.0	36.4	16.7	53.1	68.2	-15.1	Peak	Horizontal
	10758.0	35.5	17.8	53.3	74.0	-20.7	Peak	Horizontal
	11591.0	35.7	17.7	53.4	74.0	-20.6	Peak	Horizontal
*	8794.5	35.8	13.3	49.1	68.2	-19.1	Peak	Vertical
*	9959.0	35.9	16.7	52.6	68.2	-15.6	Peak	Vertical
	11174.5	35.7	17.7	53.4	74.0	-20.6	Peak	Vertical
	12067.0	35.9	17.5	53.4	74.0	-20.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	106
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8837.0	36.3	13.2	49.5	68.2	-18.7	Peak	Horizontal
*	10154.5	35.6	17.0	52.6	68.2	-15.6	Peak	Horizontal
	10936.5	35.3	18.3	53.6	74.0	-20.4	Peak	Horizontal
	11922.5	36.0	17.3	53.3	74.0	-20.7	Peak	Horizontal
*	8820.0	35.7	13.3	49.0	68.2	-19.2	Peak	Vertical
*	10341.5	36.6	17.3	53.9	68.2	-14.3	Peak	Vertical
	11463.5	35.6	17.8	53.4	74.0	-20.6	Peak	Vertical
	12526.0	35.8	17.3	53.1	74.0	-20.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	122
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8582.0	36.3	12.8	49.1	68.2	-19.1	Peak	Horizontal
*	10044.0	35.6	16.7	52.3	68.2	-15.9	Peak	Horizontal
	11098.0	36.2	17.8	54.0	74.0	-20.0	Peak	Horizontal
	12169.0	35.5	17.5	53.0	74.0	-21.0	Peak	Horizontal
*	8624.5	36.3	12.9	49.2	68.2	-19.0	Peak	Vertical
*	9831.5	35.7	16.6	52.3	68.2	-15.9	Peak	Vertical
	10868.5	35.8	18.1	53.9	74.0	-20.1	Peak	Vertical
	12152.0	35.4	17.5	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	138
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8862.5	37.1	13.3	50.4	68.2	-17.8	Peak	Horizontal
*	10282.0	35.5	17.1	52.6	68.2	-15.6	Peak	Horizontal
	11174.5	34.5	17.7	52.2	74.0	-21.8	Peak	Horizontal
	12109.5	35.8	17.5	53.3	74.0	-20.7	Peak	Horizontal
*	8718.0	36.5	13.0	49.5	68.2	-18.7	Peak	Vertical
*	9993.0	35.6	16.7	52.3	68.2	-15.9	Peak	Vertical
	10885.5	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	12390.0	35.7	17.2	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Mobile Computer	Temperature	25°C
Test Engineer	Cat Hu	Relative Humidity	56%
Test Site	AC1	Test Date	2018/05/07
Test Mode:	802.11ac-VHT80	Test Channel:	155
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	8760.5	36.6	13.2	49.8	68.2	-18.4	Peak	Horizontal
*	10120.5	35.6	16.9	52.5	68.2	-15.7	Peak	Horizontal
	10783.5	35.6	17.9	53.5	74.0	-20.5	Peak	Horizontal
	11582.5	35.8	17.7	53.5	74.0	-20.5	Peak	Horizontal
*	8820.0	35.9	13.3	49.2	68.2	-19.0	Peak	Vertical
*	9908.0	35.7	16.6	52.3	68.2	-15.9	Peak	Vertical
	10868.5	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	12109.5	35.4	17.5	52.9	74.0	-21.1	Peak	Vertical

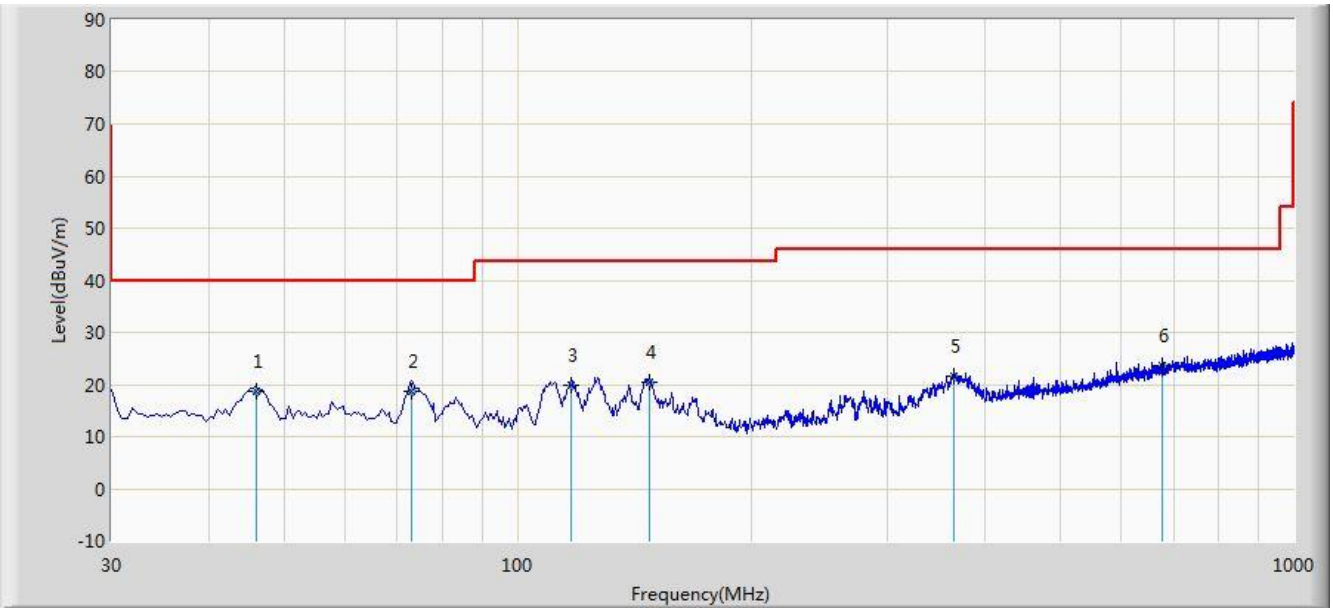
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2018/05/10 - 19:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Worst Case Mode: Transmit by 802.11ac-VHT20 at Channel 5785MHz	



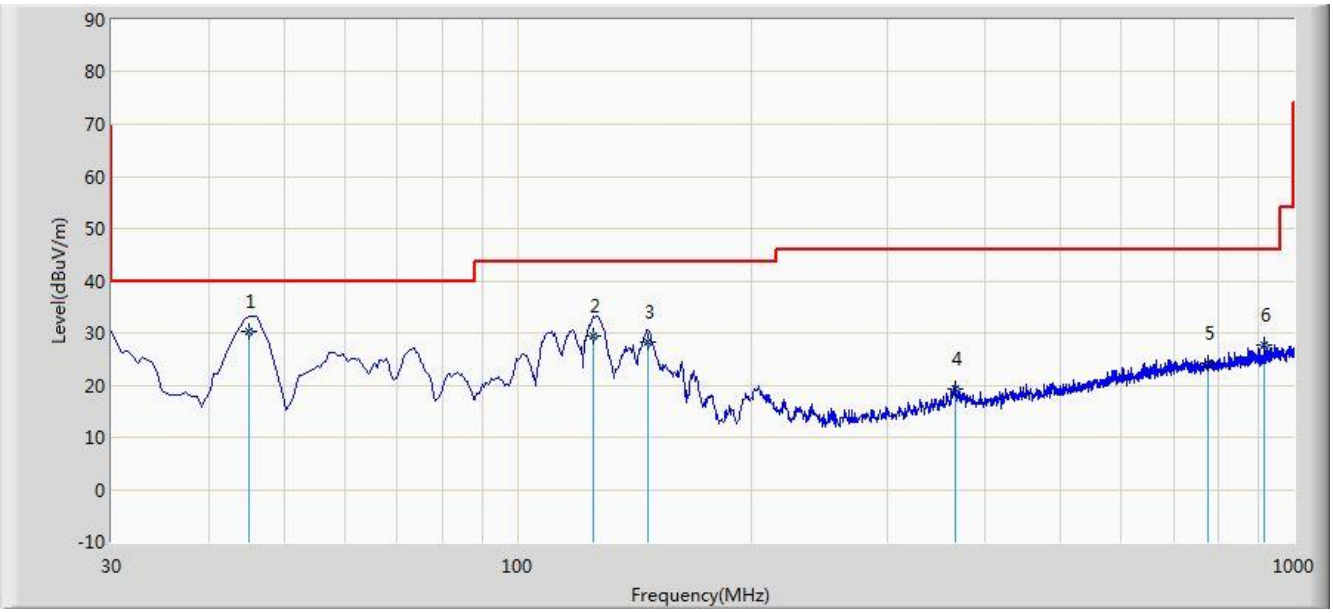
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	46.005	18.699	4.440	-21.301	40.000	14.259	QP
2			73.165	18.671	7.550	-21.329	40.000	11.121	QP
3			117.300	19.871	6.940	-23.629	43.500	12.931	QP
4			147.855	20.566	5.430	-22.934	43.500	15.136	QP
5			364.650	21.544	5.670	-24.456	46.000	15.874	QP
6			676.505	23.706	1.890	-22.294	46.000	21.816	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

Site: AC1	Time: 2018/05/10 - 19:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Worst Case Mode: Transmit by 802.11ac-VHT20 at Channel 5785MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	45.035	30.251	15.950	-9.749	40.000	14.302	QP
2			125.060	29.501	15.960	-13.999	43.500	13.541	QP
3			147.370	28.222	13.120	-15.278	43.500	15.102	QP
4			366.590	19.134	3.220	-26.866	46.000	15.914	QP
5			776.900	24.274	1.140	-21.726	46.000	23.133	QP
6			916.095	27.780	3.110	-18.220	46.000	24.670	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

7.9. Radiated Restricted Band Edge Measurement

7.9.1.Test Limit

For 15.205 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

For 15.407(b) Requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not

exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	240 - 285	9.0 - 9.2
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5
3.020 - 3.026	399.9 - 410	10.6 - 12.7
4.125 - 4.128	608 - 614	13.25 - 13.4
4.17725 - 4.17775	960 - 1427	14.47 - 14.5
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4
6.215 - 6.218	1660 - 1710	22.01 - 23.12
6.26775 - 6.26825	1718.8 -1722.2	23.6 - 24.0
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8
8.291 - 8.294	2310 -2390	36.43 - 36.5
8.362 - 8.366	2655 - 2900	Above 38.6
8.37625 - 8.38675	3260 - 3267	--
8.41425 - 8.41475	3332 -3339	
12.29 - 12.293	334.5 - 3358	
12.51975 - 12.52025	3500 - 4400	
12.57675 - 12.57725	4500 - 5150	
13.36 -13.41	5350 - 5460	
16.42 - 16.423	7250 - 7750	
16.69475 - 16.69525	8025 - 8500	
16.80425 - 16.80475	--	
25.5 - 25.67		
37.5 - 38.25		
73 - 74.6		
74.8 - 75.2		
108 - 138		
156.52475 - 156.525225		
156.7 - 156.9		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.9.3.Test Setting

Peak Measurements above 1GHz

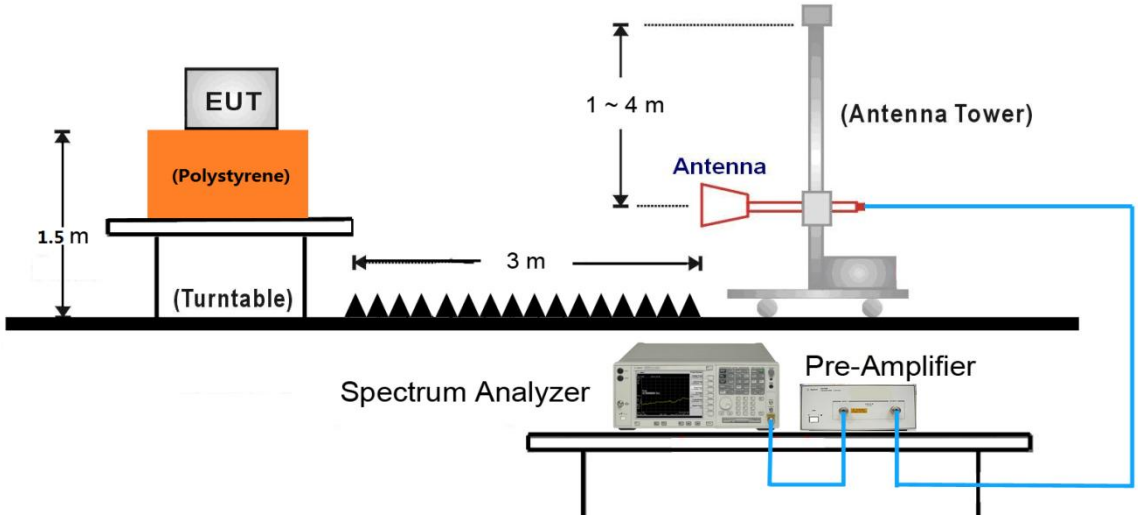
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW ≤ RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is < 98%, set VBW ≥ 1/T.
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

7.9.4.Test Setup

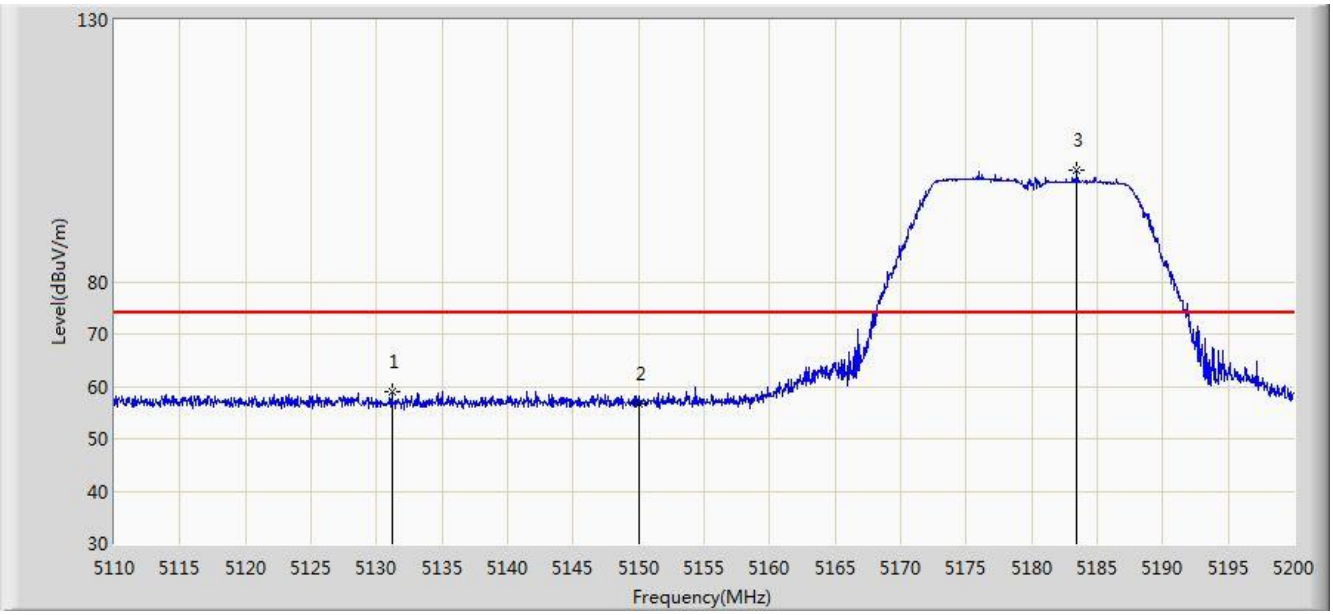
CDD Mode Test Setup:



Note: This item was performed with the WIFI antenna connected.

7.9.5.Test Result

Site: AC1	Time: 2018/05/07 - 18:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by 802.11a at channel 5180MHz	

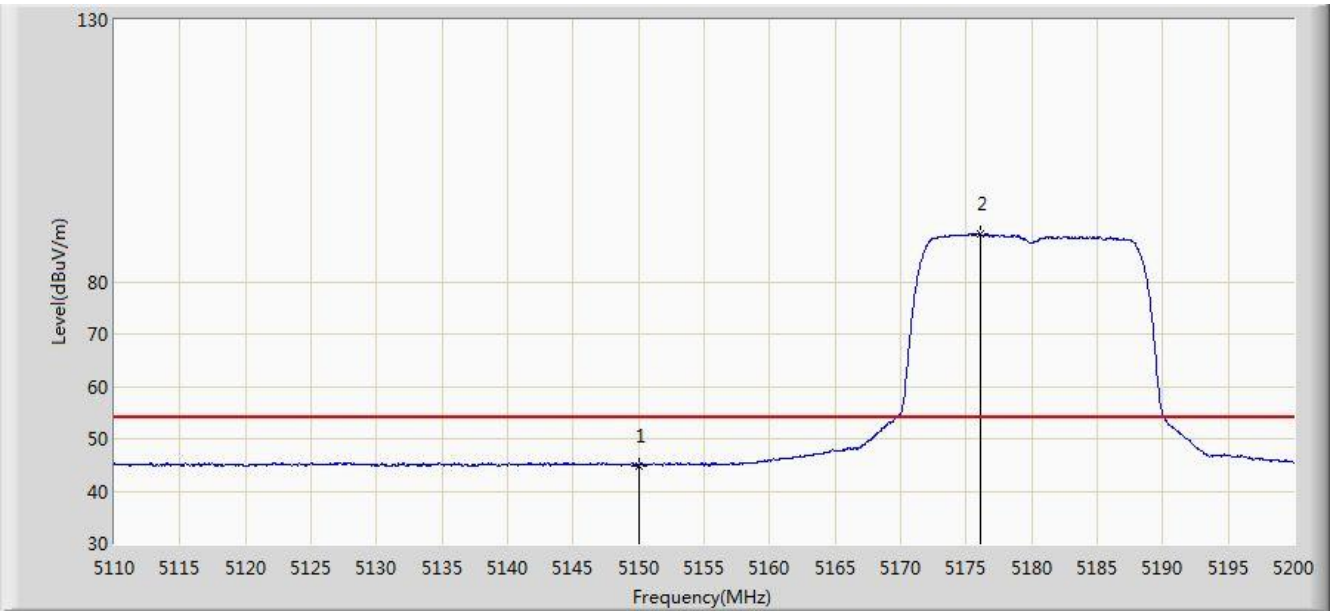


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5131.150	58.902	52.249	-15.098	74.000	6.652	PK
2			5150.000	56.683	50.121	-17.317	74.000	6.562	PK
3		*	5183.440	101.367	94.947	N/A	N/A	6.420	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/05/07 - 18:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by 802.11a at channel 5180MHz	

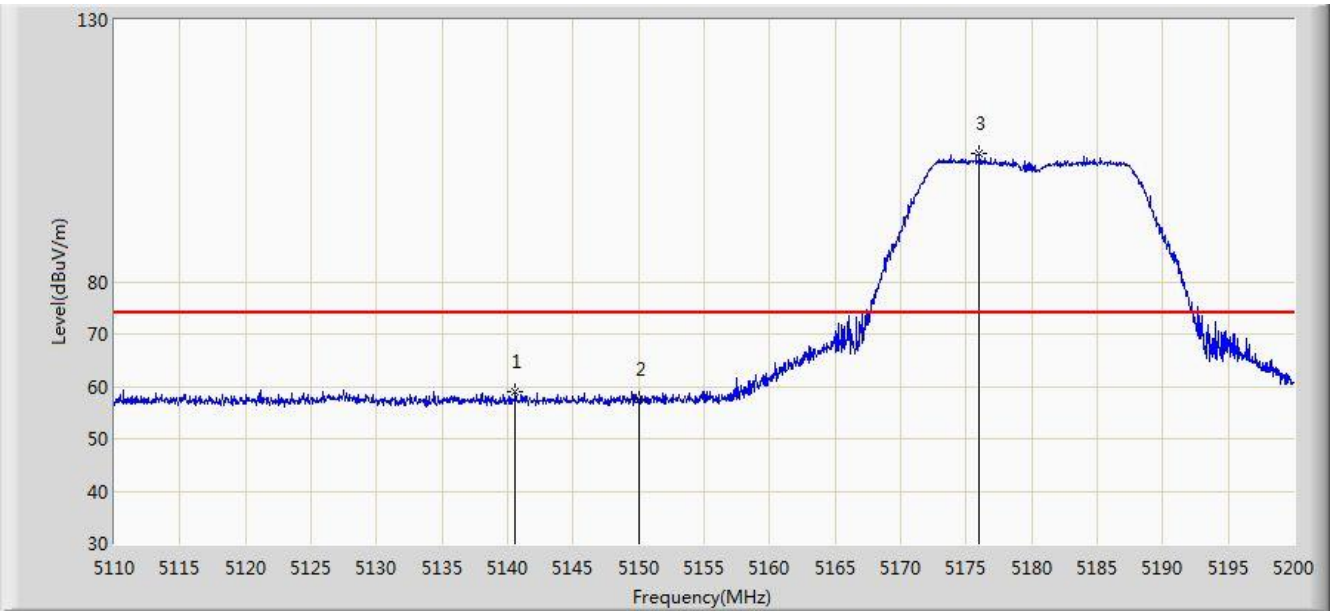


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	44.893	38.331	-9.107	54.000	6.562	AV
2		*	5176.060	89.163	82.687	N/A	N/A	6.476	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/05/07 - 18:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by 802.11a at channel 5180MHz	

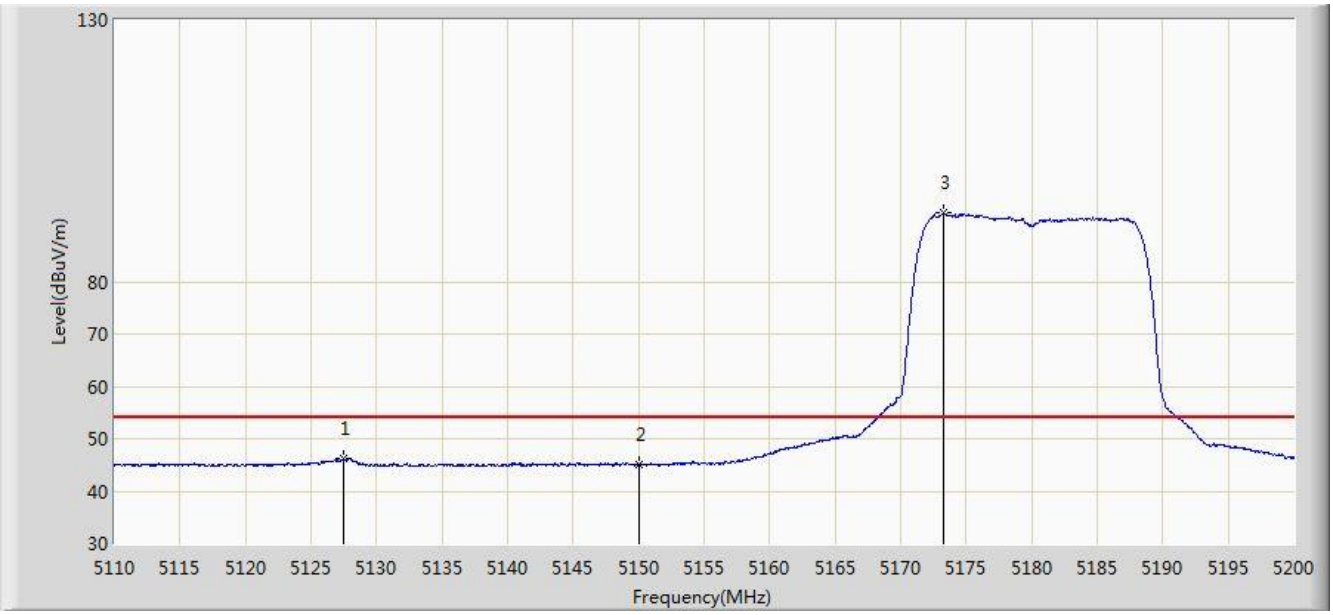


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5140.600	58.853	52.252	-15.147	74.000	6.601	PK
2			5150.000	57.404	50.842	-16.596	74.000	6.562	PK
3		*	5176.015	104.541	98.065	N/A	N/A	6.476	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/05/07 - 18:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by 802.11a at channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5127.505	46.096	39.445	-7.904	54.000	6.652	AV
2			5150.000	45.153	38.591	-8.847	54.000	6.562	AV
3		*	5173.225	93.076	86.578	N/A	N/A	6.498	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)