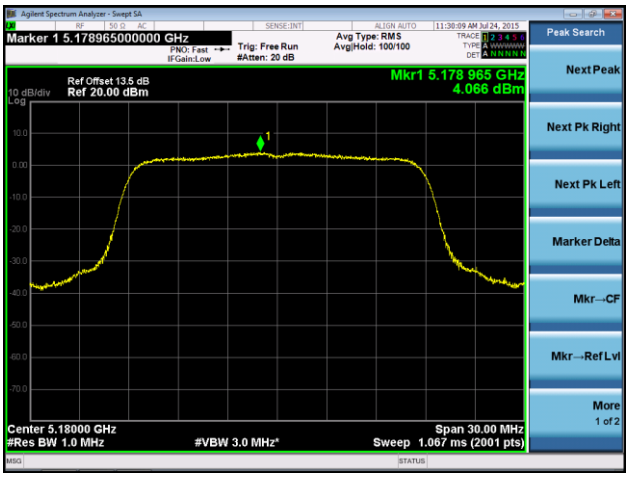
802.11ac-VHT20 Power Spectral Density - Ant 1 / Ant 0 + 1

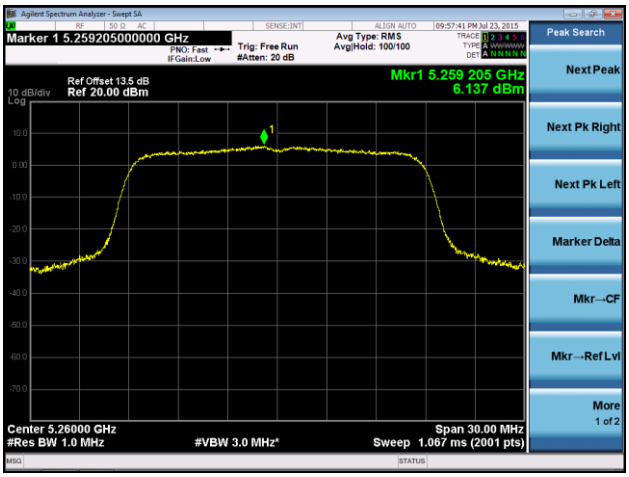
Channel 36 (5180MHz)



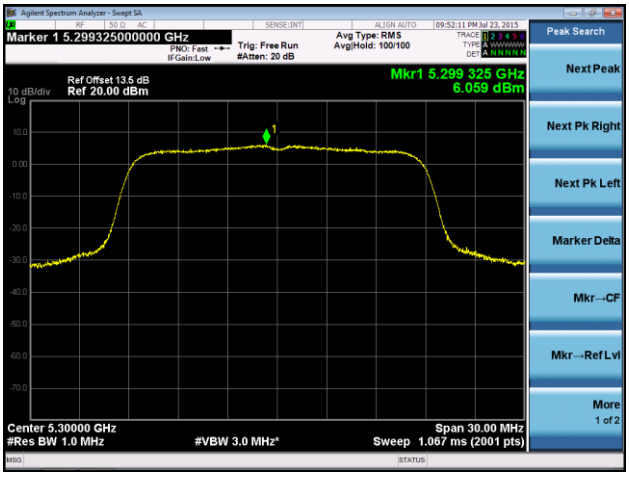
Channel 44 (5220MHz)

Channel 48 (5240MHz)

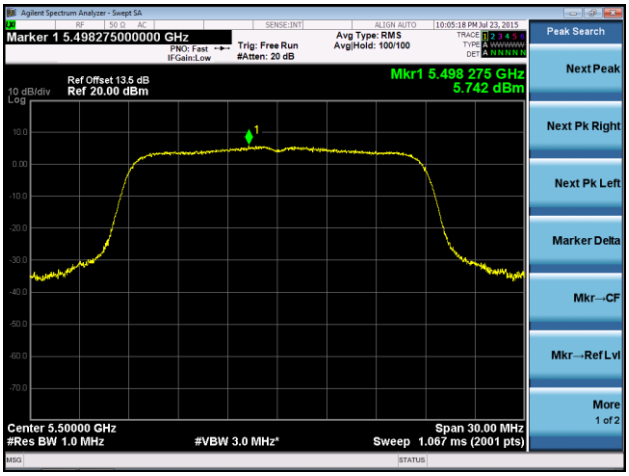
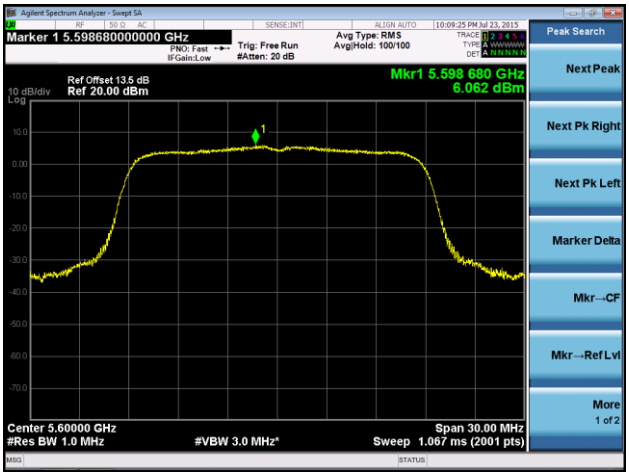
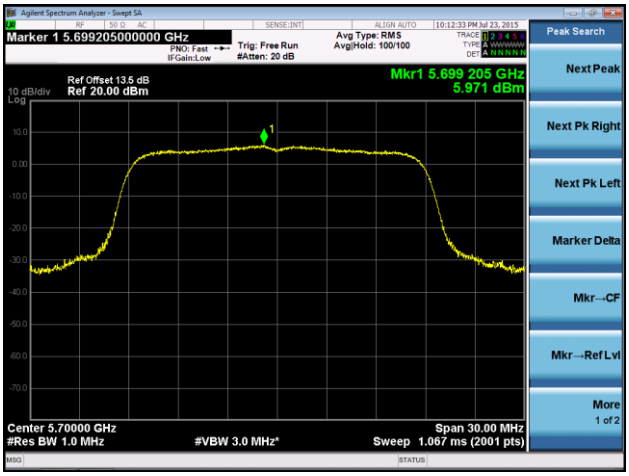
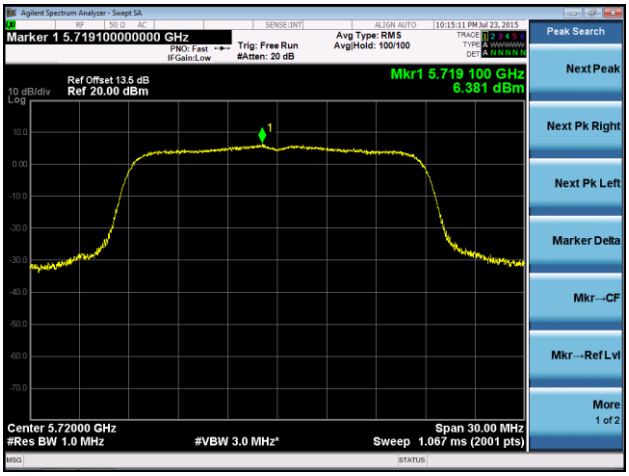
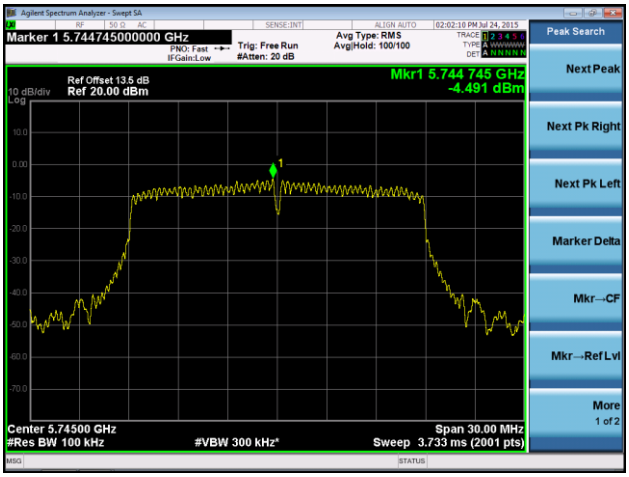
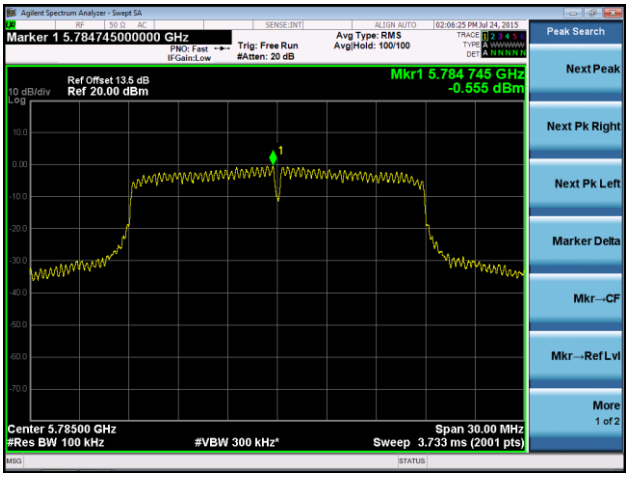
Channel 52 (5260MHz)

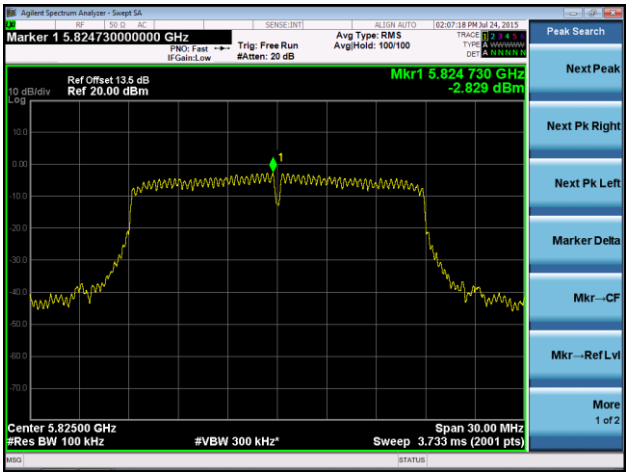


Channel 60 (5300MHz)



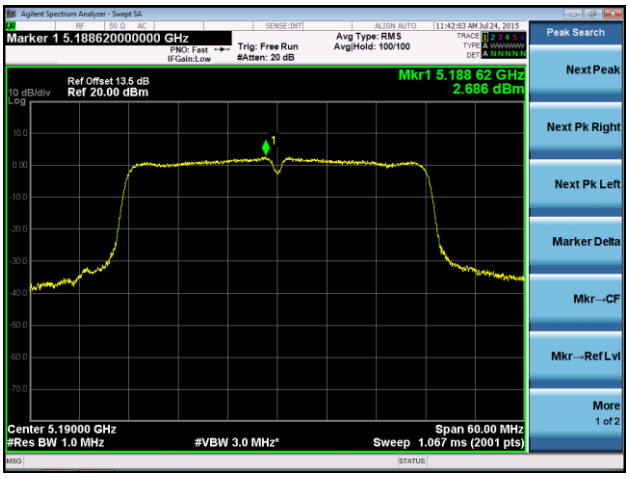
Channel 64 (5320MHz)

Channel 100 (5500MHz)	Channel 120 (5600MHz)
	
Channel 140 (5700MHz)	**Channel 144 (5720MHz)**
	
Channel 149 (5745MHz)	**Channel 157 (5785MHz)**
	

Channel 165 (5825MHz)	
	

802.11ac-VHT40 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 38 (5190MHz)



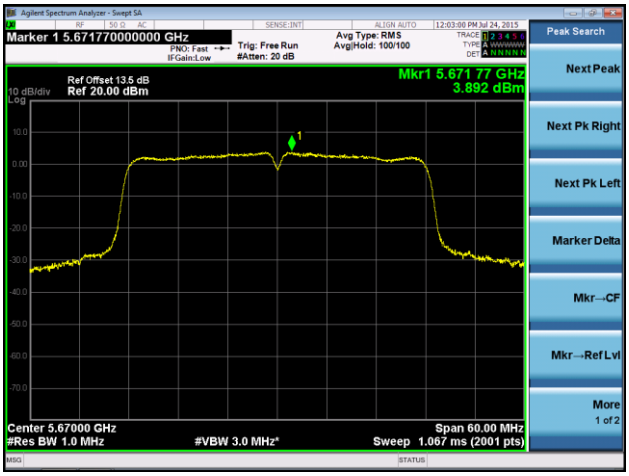
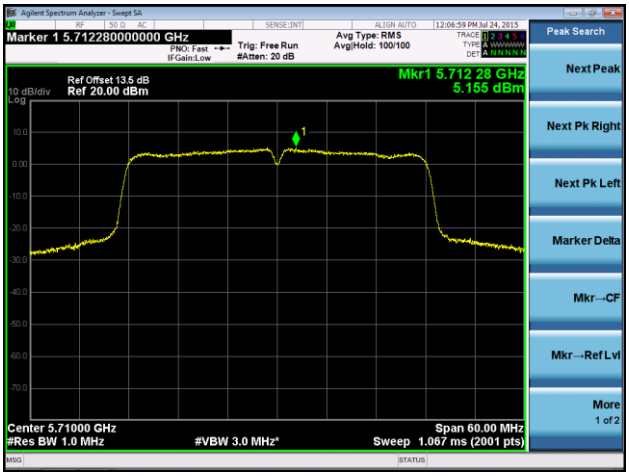
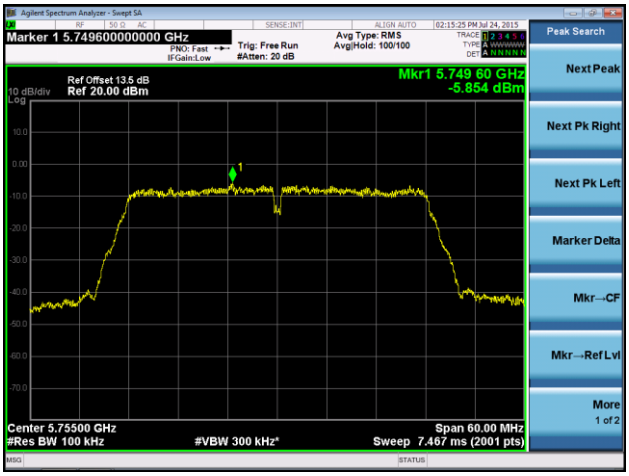
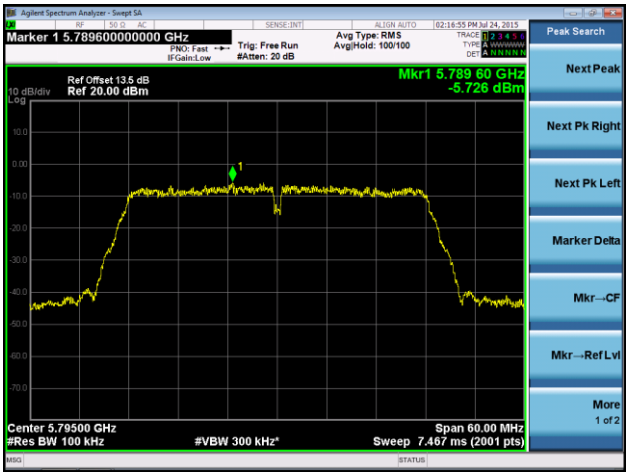
Channel 46 (5230MHz)

Channel 54 (5270MHz)

Channel 62 (5310MHz)

Channel 102 (5510MHz)

Channel 118 (5590MHz)

Channel 134 (5670MHz)	Channel 142 (5710MHz)
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**
	

802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 0 + 1

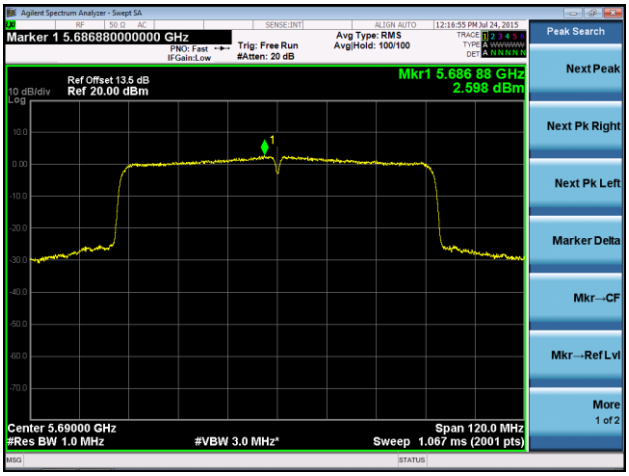
Channel 42 (5210MHz)

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.

7.7.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

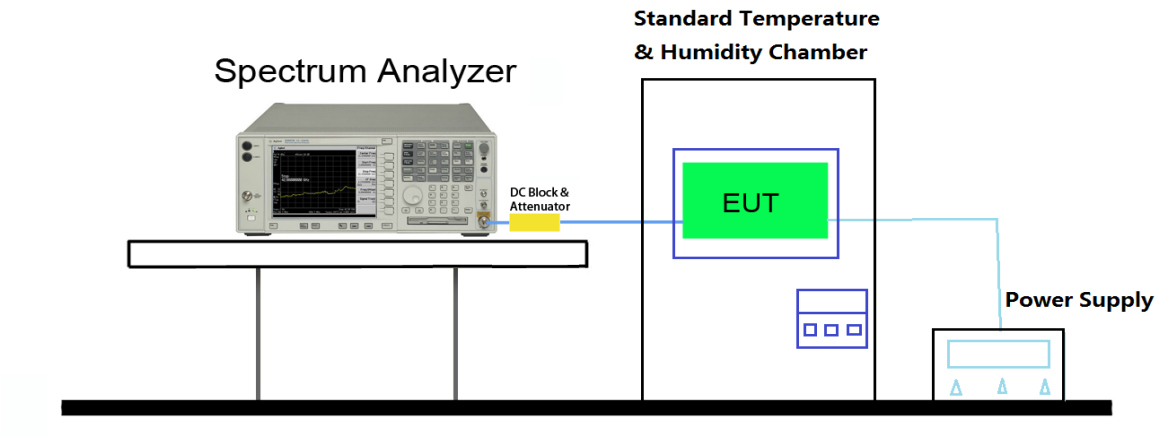
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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, record the maximum frequency change.

7.7.3. Test Setup



7.7.4. Test Result

Test Engineer	Milo Li	Temperature	-30 ~ 50°C
Test Time	08-12-2015	Relative Humidity	52%RH

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 30	6.54	5.61	3.05	4.32
		- 20	-2.70	-3.92	5.55	3.59
		- 10	5.16	4.94	2.95	-1.81
		0	5.31	-5.14	-5.39	3.45
		+ 10	-3.04	2.66	-3.42	-3.21
		+ 20 (Ref)	4.12	5.63	3.62	4.83
		+ 30	-4.95	-5.20	2.96	2.97
		+ 40	4.84	3.75	2.79	6.50
		+ 50	-3.48	2.94	-1.75	-1.79
115%	138	+ 20	4.53	4.58	4.64	4.38
85%	102	+ 20	4.34	3.99	-2.13	1.43

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 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/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

KDB 789033 D02v01 – Section G

7.8.3. 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

Quasi-Peak Measurements below 1GHz

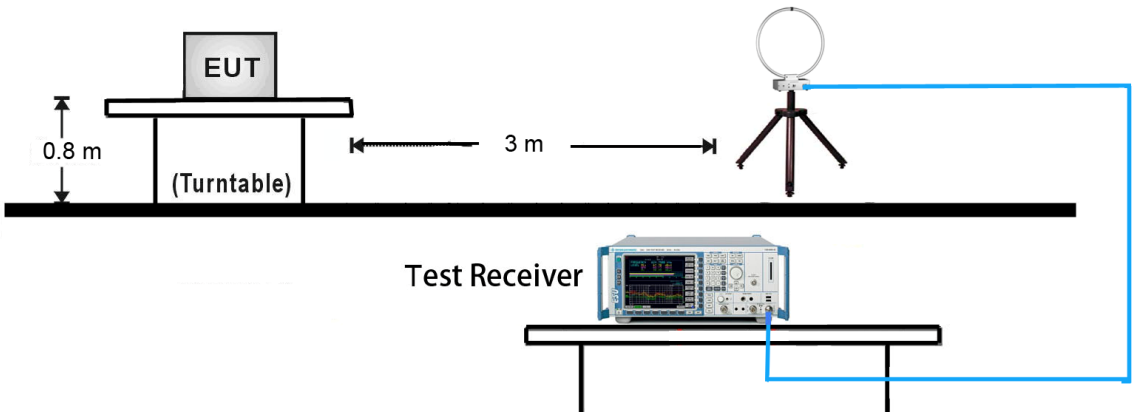
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

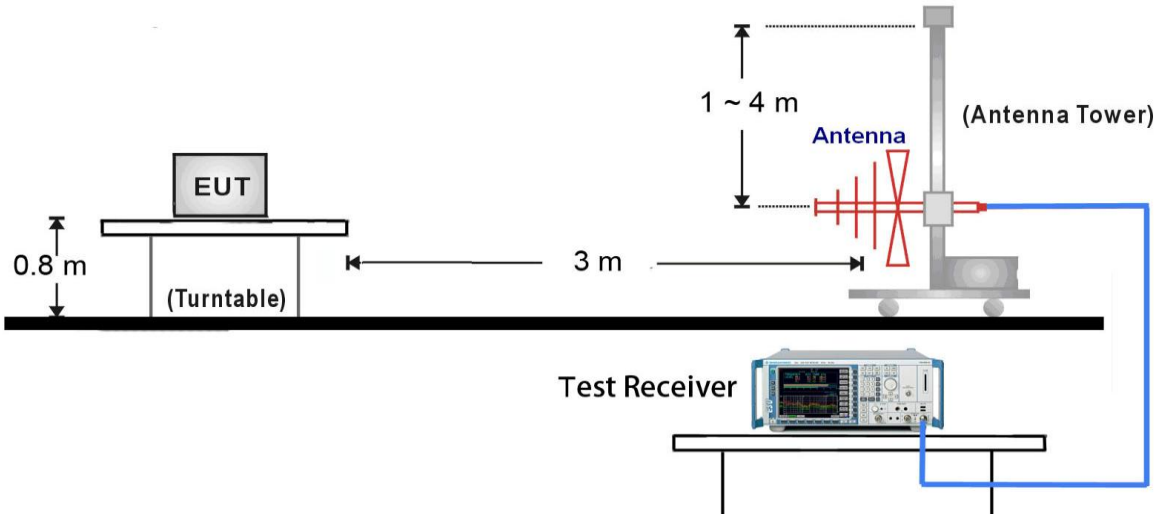
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be > 2 x span/RBW)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.8.4. Test Setup

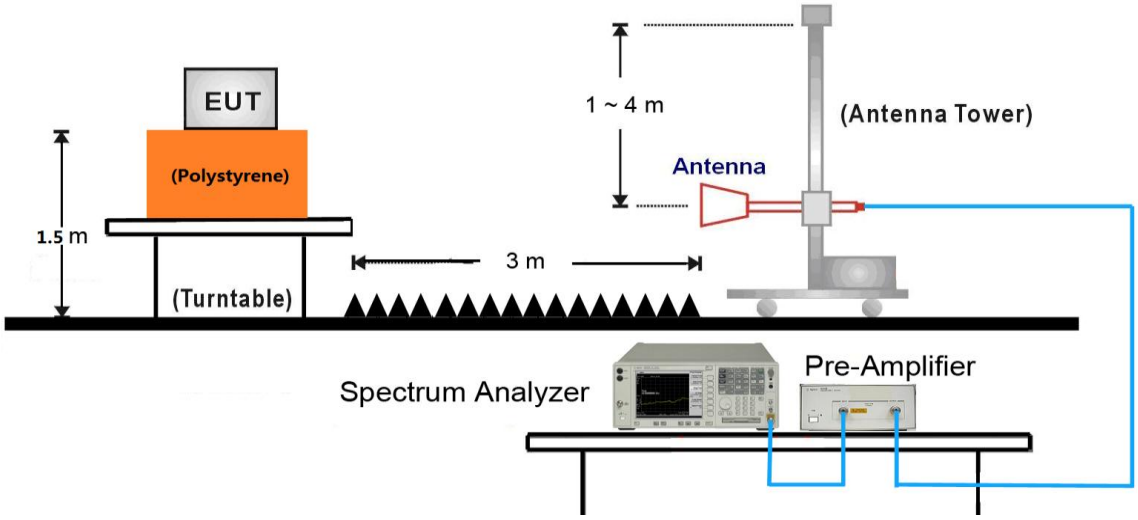
9kHz ~ 30MHz Test Setup:



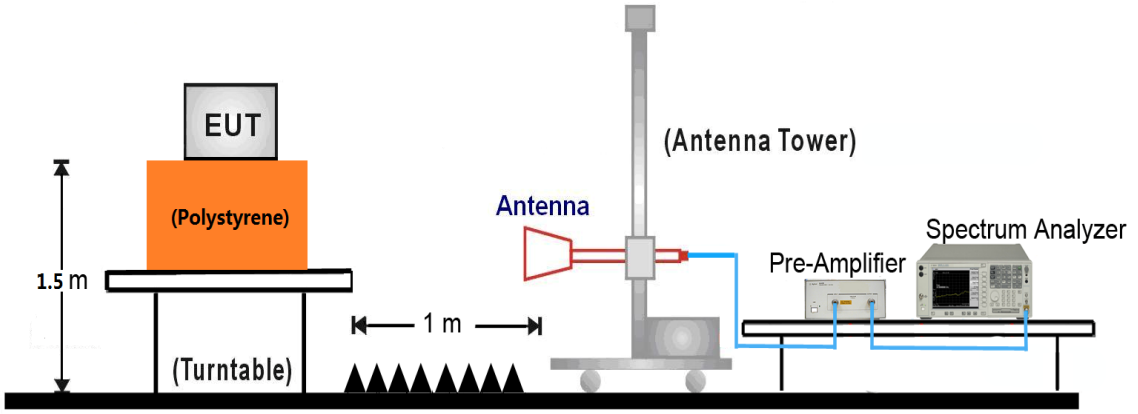
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:



18GHz ~40GHz Test Setup:



7.8.5. Test Result

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
*	9786.5	34.1	11.4	45.5	68.2	-22.7	Peak	Horizontal
*	10358.5	55.1	12.2	67.3	68.2	-0.9	Peak	Horizontal
	13341.0	34.1	13.4	47.5	74.0	-26.5	Peak	Horizontal
	15541.0	47.5	12.2	59.7	74.0	-14.3	Peak	Horizontal
	15541.0	33.1	12.2	45.3	54.0	-8.7	Average	Horizontal
*	9874.1	34.0	11.6	45.6	68.2	-22.6	Peak	Vertical
*	10367.0	48.8	12.2	61.0	68.2	-7.2	Peak	Vertical
	13285.1	34.3	12.9	47.2	74.0	-26.8	Peak	Vertical
	15540.8	44.6	12.2	56.8	74.0	-17.2	Peak	Vertical
	15540.8	31.3	12.2	43.5	54.0	-10.5	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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
*	9876.0	34.0	11.6	45.6	68.2	-22.6	Peak	Horizontal
*	10435.0	55.0	12.0	67.0	68.2	-1.2	Peak	Horizontal
	11497.5	36.4	12.8	49.2	74.0	-24.8	Peak	Horizontal
	15662.8	47.2	12.0	59.2	74.0	-14.8	Peak	Horizontal
	15662.8	34.4	12.0	46.4	54.0	-7.6	Average	Horizontal
*	9876.0	34.1	11.6	45.7	68.2	-22.5	Peak	Vertical
*	10443.5	46.4	12.0	58.4	68.2	-9.8	Peak	Vertical
	11514.5	35.9	12.8	48.7	74.0	-25.3	Peak	Vertical
	15645.5	33.1	12.0	45.1	54.0	-8.9	Peak	Vertical
	15645.5	45.4	12.0	57.4	74.0	-16.6	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
*	9876.0	33.7	11.6	45.3	68.2	-22.9	Peak	Horizontal
*	10477.5	55.2	12.2	67.4	68.2	-0.8	Peak	Horizontal
	11497.5	35.8	12.8	48.6	74.0	-25.4	Peak	Horizontal
	15713.8	51.1	11.8	62.9	74.0	-11.1	Peak	Horizontal
	15713.8	38.5	11.8	50.3	54.0	-3.7	Average	Horizontal
*	9856.0	34.0	11.6	45.6	68.2	-22.6	Peak	Vertical
*	10469.0	45.0	12.1	57.1	68.2	-11.1	Peak	Vertical
	11761.0	36.5	11.9	48.4	74.0	-25.6	Peak	Vertical
	15713.8	47.5	11.8	59.3	74.0	-14.7	Peak	Vertical
	15713.8	38.3	11.8	50.1	54.0	-3.9	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	52	Test Engineer:	Milo Li
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
*	9752.5	34.6	11.4	46.0	68.2	-22.2	Peak	Horizontal
*	10520.0	54.4	12.4	66.8	68.2	-1.4	Peak	Horizontal
	11514.5	35.8	12.8	48.6	74.0	-25.4	Peak	Horizontal
	15790.2	49.2	11.6	60.8	74.0	-13.2	Peak	Horizontal
	15790.2	36.5	11.6	48.1	54.0	-5.9	Average	Horizontal
*	9755.0	34.7	11.4	46.1	68.2	-22.1	Peak	Vertical
*	10520.0	42.6	12.4	55.0	68.2	-13.2	Peak	Vertical
	11616.5	35.9	12.5	48.4	74.0	-25.6	Peak	Vertical
	15781.7	46.7	11.7	58.4	74.0	-15.6	Peak	Vertical
	15781.7	33.4	11.7	45.1	54.0	-8.9	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	60	Test Engineer:	Milo Li
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
*	8756.0	34.7	9.0	43.7	68.2	-24.5	Peak	Horizontal
*	9786.0	34.3	11.4	45.7	68.2	-22.5	Peak	Horizontal
	10600.3	51.1	12.4	63.5	74.0	-10.5	Peak	Horizontal
	10600.3	38.3	12.4	50.7	54.0	-3.3	Average	Horizontal
	15897.2	52.5	11.7	64.2	74.0	-9.8	Peak	Horizontal
	15897.2	37.9	11.7	49.6	54.0	-4.4	Average	Horizontal
*	8765.0	34.9	9.0	43.9	68.2	-24.3	Peak	Vertical
*	9759.0	34.2	11.4	45.6	68.2	-22.6	Peak	Vertical
	10605.0	43.0	12.4	55.4	74.0	-18.6	Peak	Vertical
	10605.0	30.2	12.4	42.6	54.0	-11.4	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	64	Test Engineer:	Milo Li
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
*	8745.0	34.7	9.0	43.7	68.2	-24.5	Peak	Horizontal
*	9756.0	34.3	11.4	45.7	68.2	-22.5	Peak	Horizontal
	10639.0	40.0	12.3	52.3	74.0	-21.7	Peak	Horizontal
	15960.1	46.1	11.7	57.8	74.0	-16.2	Peak	Horizontal
	15960.1	33.5	11.7	45.2	54.0	-8.8	Average	Horizontal
*	8636.0	35.8	8.8	44.6	68.2	-23.6	Peak	Vertical
*	9785.0	33.9	11.4	45.3	68.2	-22.9	Peak	Vertical
	10639.0	40.2	12.3	52.5	74.0	-21.5	Peak	Vertical
	15960.1	43.8	11.7	55.5	74.0	-18.5	Peak	Vertical
	15960.1	30.1	11.7	41.8	54.0	-12.2	Average	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	100	Test Engineer:	Milo Li
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
*	13568.0	35.2	13.9	49.1	68.2	-19.1	Peak	Horizontal
*	16495.5	41.8	13.4	55.2	68.2	-13.0	Peak	Horizontal
	11004.5	39.9	13.0	52.9	74.0	-21.1	Peak	Horizontal
	11650.0	35.1	12.3	47.4	74.0	-26.6	Peak	Horizontal
*	13856.0	36.4	14.5	50.9	68.2	-17.3	Peak	Vertical
*	16487.0	37.5	13.4	50.9	68.2	-17.3	Peak	Vertical
	10996.0	38.8	13.0	51.8	74.0	-22.2	Peak	Vertical
	11685.1	34.2	12.1	46.3	74.0	-27.7	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	120	Test Engineer:	Milo Li
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
*	13568.0	34.6	13.9	48.5	68.2	-19.7	Peak	Horizontal
*	16801.5	43.4	14.8	58.2	68.2	-10.0	Peak	Horizontal
	11200.1	44.4	12.5	56.9	74.0	-17.1	Peak	Horizontal
	11200.1	31.5	12.5	44.0	54.0	-10.0	Average	Horizontal
	11689.0	34.7	12.1	46.8	74.0	-27.2	Peak	Horizontal
*	13562.0	33.9	13.9	47.8	68.2	-20.4	Peak	Vertical
*	16793.0	39.4	14.8	54.2	68.2	-14.0	Peak	Vertical
	11191.5	40.5	12.5	53.0	74.0	-21.0	Peak	Vertical
	11587.0	34.3	12.6	46.9	74.0	-27.1	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	140	Test Engineer:	Milo Li
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
*	13879.0	35.3	14.6	49.9	68.2	-18.3	Peak	Horizontal
*	17099.0	41.6	15.6	57.2	68.2	-11.0	Peak	Horizontal
	11404.1	45.8	12.6	58.4	74.0	-15.6	Peak	Horizontal
	11404.1	32.8	12.6	45.4	54.0	-8.6	Average	Horizontal
	11876.0	34.4	11.8	46.2	74.0	-27.8	Peak	Horizontal
*	13586.0	34.8	13.9	48.7	68.2	-19.5	Peak	Vertical
*	17099.0	41.7	15.6	57.3	68.2	-10.9	Peak	Vertical
	11404.0	40.6	12.6	53.2	74.0	-20.8	Peak	Vertical
	11879.0	33.8	11.8	45.6	74.0	-28.4	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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
*	13707.5	35.6	14.1	49.7	68.2	-18.5	Peak	Horizontal
*	14625.5	35.3	15.7	51.0	68.2	-17.2	Peak	Horizontal
	11489.6	43.0	12.8	55.8	74.0	-18.2	Peak	Horizontal
	11489.6	31.2	12.8	44.0	54.0	-10.0	Average	Horizontal
	12228.5	36.1	11.7	47.8	74.0	-26.2	Peak	Horizontal
*	13580.0	35.3	14.0	49.3	68.2	-18.9	Peak	Vertical
*	14702.0	36.0	15.7	51.7	68.2	-16.5	Peak	Vertical
	11489.0	40.0	12.8	52.8	74.0	-21.2	Peak	Vertical
	12067.0	36.2	12.0	48.2	74.0	-25.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
*	14744.5	36.6	15.6	52.2	68.2	-16.0	Peak	Horizontal
*	17354.0	44.1	16.9	61.0	68.2	-7.2	Peak	Horizontal
	11565.4	48.7	12.7	61.4	74.0	-12.6	Peak	Horizontal
	11565.4	35.2	12.7	47.9	54.0	-6.1		
	13367.5	34.7	13.6	48.3	74.0	-25.7	Peak	Horizontal
*	14064.5	36.5	15.1	51.6	68.2	-16.6	Peak	Vertical
*	17345.5	44.4	16.8	61.2	68.2	-7.0	Peak	Vertical
	11574.0	48.3	12.6	60.9	74.0	-13.1	Peak	Vertical
	11574.0	35.7	12.6	48.3	54.0	-5.7	Average	Horizontal

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11a – Ant 0 + 1	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
*	13988.0	37.2	14.9	52.1	68.2	-16.1	Peak	Horizontal
*	17473.0	40.4	17.2	57.6	68.2	-10.6	Peak	Horizontal
	11650.7	49.6	12.3	61.9	74.0	-12.1	Peak	Horizontal
	11650.7	37.7	12.3	50.0	54.0	-4.0	Average	Horizontal
	12050.0	35.7	12.0	47.7	74.0	-26.3	Peak	Horizontal
*	14676.5	35.5	15.7	51.2	68.2	-17.0	Peak	Vertical
*	17473.0	42.8	17.2	60.0	68.2	-8.2	Peak	Vertical
	11650.5	45.7	12.3	58.0	74.0	-16.0	Peak	Vertical
	11650.5	32.1	12.3	44.4	54.0	-9.6	Average	Vertical
	12058.5	35.9	12.0	47.9	74.0	-26.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
*	9874.0	32.4	11.6	44.0	68.2	-24.2	Peak	Horizontal
*	10358.5	54.1	12.2	66.3	68.2	-1.9	Peak	Horizontal
	15535.2	48.5	12.2	60.7	74.0	-13.3	Peak	Horizontal
	15535.2	36.2	12.2	48.4	54.0	-5.6	Average	Horizontal
	15879.0	34.0	11.7	45.7	74.0	-28.3	Peak	Horizontal
*	8684.0	36.1	9.0	45.1	68.2	-23.1	Peak	Vertical
*	10358.5	46.9	12.2	59.1	68.2	-9.1	Peak	Vertical
	13356.0	34.4	13.5	47.9	74.0	-26.1	Peak	Vertical
	15543.7	48.2	12.2	60.4	74.0	-13.6	Peak	Vertical
	15543.7	35.2	12.2	47.4	54.0	-6.6	Average	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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	36.0	9.0	45.0	68.2	-23.2	Peak	Horizontal
*	10443.5	47.6	12.0	59.6	68.2	-8.6	Peak	Horizontal
	11560.0	34.4	12.7	47.1	74.0	-26.9	Peak	Horizontal
	15658.8	53.5	12.0	65.5	74.0	-8.5	Peak	Horizontal
	15658.8	40.0	12.0	52.0	54.0	-2.0	Average	Horizontal
*	8684.0	35.5	9.0	44.5	68.2	-23.7	Peak	Vertical
*	10435.0	46.6	12.0	58.6	68.2	-9.6	Peak	Vertical
	11589.0	34.8	12.6	47.4	74.0	-26.6	Peak	Vertical
	15671.2	49.8	11.9	61.7	74.0	-12.3	Peak	Vertical
	15671.2	36.4	11.9	48.3	54.0	-5.7	Average	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
*	8683.4	35.2	9.0	44.2	68.2	-24.0	Peak	Horizontal
*	10477.5	45.9	12.2	58.1	68.2	-10.1	Peak	Horizontal
	11589.0	34.4	12.6	47.0	74.0	-27.0	Peak	Horizontal
	15722.3	51.1	11.8	62.9	74.0	-11.1	Peak	Horizontal
	15722.3	39.2	11.8	51.0	54.0	-3.0	Average	Horizontal
*	9854.0	33.7	11.6	45.3	68.2	-22.9	Peak	Vertical
*	10477.5	43.0	12.2	55.2	68.2	-13.0	Peak	Vertical
	11571.0	34.2	12.6	46.8	74.0	-27.2	Peak	Vertical
	15713.8	46.4	11.8	58.2	74.0	-15.8	Peak	Vertical
	15713.8	34.1	11.8	45.9	54.0	-8.1	Average	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	52	Test Engineer:	Milo Li
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
*	8784.0	35.5	8.9	44.4	68.2	-23.8	Peak	Horizontal
*	10520.0	47.1	12.4	59.5	68.2	-8.7	Peak	Horizontal
	11689.0	35.0	12.1	47.1	74.0	-26.9	Peak	Horizontal
	15782.0	50.5	11.7	62.2	74.0	-11.8	Peak	Horizontal
	15782.0	37.6	11.7	49.3	54.0	-4.7	Average	Horizontal
*	9854.0	33.9	11.6	45.5	68.2	-22.7	Peak	Vertical
*	10520.0	41.3	12.4	53.7	68.2	-14.5	Peak	Vertical
	11485.6	34.6	12.7	47.3	74.0	-26.7	Peak	Vertical
	15773.3	46.4	11.7	58.1	74.0	-15.9	Peak	Vertical
	15773.3	33.1	11.7	44.8	54.0	-9.2	Average	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	60	Test Engineer:	Milo Li
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
*	9852.0	33.6	11.6	45.2	68.2	-23.0	Peak	Horizontal
*	10596.5	38.7	12.4	51.1	68.2	-17.1	Peak	Horizontal
	11673.0	35.5	12.2	47.7	74.0	-26.3	Peak	Horizontal
	15892.1	45.8	11.7	57.5	74.0	-16.5	Peak	Horizontal
	15892.1	33.5	11.7	45.2	54.0	-8.8	Average	Horizontal
*	9851.0	33.3	11.6	44.9	68.2	-23.3	Peak	Vertical
*	10596.5	40.4	12.4	52.8	68.2	-15.4	Peak	Vertical
	11543.0	34.3	12.7	47.0	74.0	-27.0	Peak	Vertical
	15909.1	42.8	11.8	54.6	74.0	-19.4	Peak	Vertical
	15909.1	30.4	11.8	42.2	54.0	-11.8	Average	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	64	Test Engineer:	Milo Li
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
*	8646.0	35.3	8.8	44.1	68.2	-24.1	Peak	Horizontal
*	9752.0	34.3	11.4	45.7	68.2	-22.5	Peak	Horizontal
	10639.0	38.9	12.3	51.2	74.0	-22.8	Peak	Horizontal
	15951.5	44.8	11.7	56.5	74.0	-17.5	Peak	Horizontal
	15951.5	31.6	11.7	43.3	54.0	-10.7	Average	Horizontal
*	8756.0	34.9	9.0	43.9	68.2	-24.3	Peak	Vertical
*	9832.0	33.3	11.6	44.9	68.2	-23.3	Peak	Vertical
	10639.0	39.8	12.3	52.1	74.0	-21.9	Peak	Vertical
	15960.0	41.3	11.7	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	100	Test Engineer:	Milo Li
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	35.2	9.0	44.2	68.2	-24.0	Peak	Horizontal
*	9651.0	34.1	11.0	45.1	68.2	-23.1	Peak	Horizontal
	10996.0	38.3	13.0	51.3	74.0	-22.7	Peak	Horizontal
	16495.5	38.0	13.4	51.4	74.0	-22.6	Peak	Horizontal
*	8795.0	34.8	8.9	43.7	68.2	-24.5	Peak	Vertical
*	9863.0	33.9	11.6	45.5	68.2	-22.7	Peak	Vertical
	11004.5	37.0	13.0	50.0	74.0	-24.0	Peak	Vertical
	15530.0	34.6	12.2	46.8	74.0	-27.2	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	120	Test Engineer:	Milo Li
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
*	13598.0	33.8	13.9	47.7	68.2	-20.5	Peak	Horizontal
*	16810.0	41.6	14.9	56.5	68.2	-11.7	Peak	Horizontal
	11200.2	42.8	12.5	55.3	74.0	-18.7	Peak	Horizontal
	11200.2	30.7	12.5	43.2	54.0	-10.8	Average	Horizontal
	11463.2	35.0	12.7	47.7	74.0	-26.3	Peak	Horizontal
*	13589.0	34.5	13.9	48.4	68.2	-19.8	Peak	Vertical
*	16801.5	38.4	14.8	53.2	68.2	-15.0	Peak	Vertical
	11200.0	38.9	12.5	51.4	74.0	-22.6	Peak	Vertical
	11658.4	35.4	12.3	47.7	74.0	-26.3	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	140	Test Engineer:	Milo Li
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
*	13589.0	34.3	13.9	48.2	68.2	-20.0	Peak	Horizontal
*	14660.0	34.1	15.7	49.8	68.2	-18.4	Peak	Horizontal
	11395.8	41.9	12.6	54.5	74.0	-19.5	Peak	Horizontal
	11395.8	29.6	12.6	42.2	54.0	-11.8	Average	Horizontal
	12368.0	34.3	11.5	45.8	74.0	-28.2	Peak	Horizontal
*	13680.0	35.1	14.0	49.1	68.2	-19.1	Peak	Vertical
*	14853.0	34.9	15.1	50.0	68.2	-18.2	Peak	Vertical
	11404.0	38.7	12.6	51.3	74.0	-22.7	Peak	Vertical
	12580.0	34.5	11.3	45.8	74.0	-28.2	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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
*	13850.0	35.9	14.5	50.4	68.2	-17.8	Peak	Horizontal
*	17226.5	41.1	16.0	57.1	68.2	-11.1	Peak	Horizontal
	11489.3	49.8	12.8	62.6	74.0	-11.4	Peak	Horizontal
	11489.3	36.5	12.8	49.3	54.0	-4.7	Average	Horizontal
	12560.0	34.3	11.3	45.6	74.0	-28.4	Peak	Horizontal
*	13874.0	35.0	14.6	49.6	68.2	-18.6	Peak	Vertical
*	17235.0	41.7	15.9	57.6	68.2	-10.6	Peak	Vertical
	11489.3	43.9	12.8	56.7	74.0	-17.3	Peak	Vertical
	11489.3	30.2	12.8	43.0	54.0	-11.0	Average	Vertical
	12480.0	34.6	11.4	46.0	74.0	-28.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
*	13572.0	34.2	14.0	48.2	68.2	-20.0	Peak	Horizontal
*	17354.0	40.8	16.9	57.7	68.2	-10.5	Peak	Horizontal
	11565.8	47.1	12.7	59.8	74.0	-14.2	Peak	Horizontal
	11565.8	34.6	12.7	47.3	54.0	-6.7	Average	Horizontal
	12586.0	33.9	11.3	45.2	74.0	-28.8	Peak	Horizontal
*	14851.0	34.8	15.1	49.9	68.2	-18.3	Peak	Vertical
*	17345.5	41.6	16.8	58.4	68.2	-9.8	Peak	Vertical
	11565.8	43.0	12.7	55.7	74.0	-18.3	Peak	Vertical
	11565.8	30.4	12.7	43.1	54.0	-10.9	Average	Vertical
	12495.0	33.6	11.4	45.0	74.0	-29.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11n-HT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
*	13856.0	35.1	14.5	49.6	68.2	-18.6	Peak	Horizontal
*	14689.0	34.6	15.7	50.3	68.2	-17.9	Peak	Horizontal
	11650.8	45.3	12.3	57.6	74.0	-16.4	Peak	Horizontal
	11650.8	31.6	12.3	43.9	54.0	-10.1	Average	Horizontal
	12653.0	33.0	11.5	44.5	74.0	-29.5	Peak	Horizontal
*	13552.0	34.3	13.9	48.2	68.2	-20.0	Peak	Vertical
*	14687.0	34.5	15.7	50.2	68.2	-18.0	Peak	Vertical
	11650.5	41.6	12.3	53.9	74.0	-20.1	Peak	Vertical
	12380.0	33.9	11.5	45.4	74.0	-28.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	38	Test Engineer:	Milo Li
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	35.1	9.0	44.1	68.2	-24.1	Peak	Horizontal
*	10358.5	49.9	12.2	62.1	68.2	-6.1	Peak	Horizontal
	11523.0	35.3	12.7	48.0	74.0	-26.0	Peak	Horizontal
	15568.7	54.4	12.1	66.5	74.0	-7.5	Peak	Horizontal
	15568.7	41.5	12.1	53.6	54.0	-0.4	Average	Horizontal
*	9754.3	34.2	11.4	45.6	68.2	-22.6	Peak	Vertical
*	10375.5	46.2	12.2	58.4	68.2	-9.8	Peak	Vertical
	11523.4	34.3	12.7	47.0	74.0	-27.0	Peak	Vertical
	15560.8	49.6	12.1	61.7	74.0	-12.3	Peak	Vertical
	15560.8	36.3	12.1	48.4	54.0	-5.6	Average	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	46	Test Engineer:	Milo Li
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
*	9785.6	33.5	11.4	44.9	68.2	-23.3	Peak	Horizontal
*	10460.5	44.7	12.1	56.8	68.2	-11.4	Peak	Horizontal
	11623.4	35.2	12.5	47.7	74.0	-26.3	Peak	Horizontal
	15683.3	54.3	11.9	66.2	74.0	-7.8	Peak	Horizontal
	15683.3	41.7	11.9	53.6	54.0	-0.4	Average	Horizontal
*	9786.3	33.3	11.4	44.7	68.2	-23.5	Peak	Vertical
*	10460.5	41.6	12.1	53.7	68.2	-14.5	Peak	Vertical
	11568.9	33.2	12.7	45.9	74.0	-28.1	Peak	Vertical
	15688.2	50.2	11.9	62.1	74.0	-11.9	Peak	Vertical
	15688.2	38.6	11.9	50.5	54.0	-3.5	Average	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	54	Test Engineer:	Milo Li
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
*	9785.3	34.1	11.4	45.5	68.2	-22.7	Peak	Horizontal
*	10545.5	45.5	12.5	58.0	68.2	-10.2	Peak	Horizontal
	11635.4	35.1	12.4	47.5	74.0	-26.5	Peak	Horizontal
	15790.2	48.2	11.6	59.8	74.0	-14.2	Peak	Horizontal
	15790.2	35.2	11.6	46.8	54.0	-7.2	Average	Horizontal
*	8763.5	35.3	9.0	44.3	68.2	-23.9	Peak	Vertical
*	10537.0	41.0	12.5	53.5	68.2	-14.7	Peak	Vertical
	11638.1	34.9	12.4	47.3	74.0	-26.7	Peak	Vertical
	15807.2	46.6	11.7	58.3	74.0	-15.7	Peak	Vertical
	15807.2	33.3	11.7	45.0	54.0	-9.0	Average	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	62	Test Engineer:	Milo Li
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
*	8796.3	36.5	8.9	45.4	68.2	-22.8	Peak	Horizontal
*	9852.4	34.1	11.6	45.7	68.2	-22.5	Peak	Horizontal
	10613.5	36.3	12.4	48.7	74.0	-25.3	Peak	Horizontal
	11853.4	33.5	11.9	45.4	74.0	-28.6	Peak	Horizontal
*	8752.3	34.3	9.0	43.3	68.2	-24.9	Peak	Vertical
*	9632.1	33.7	11.0	44.7	68.2	-23.5	Peak	Vertical
	10622.0	36.2	12.4	48.6	74.0	-25.4	Peak	Vertical
	11683.1	34.1	12.1	46.2	74.0	-27.8	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	102	Test Engineer:	Milo Li
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
*	8532.1	35.9	8.5	44.4	68.2	-23.8	Peak	Horizontal
*	9852.1	33.6	11.6	45.2	68.2	-23.0	Peak	Horizontal
	11013.0	34.9	13.0	47.9	74.0	-26.1	Peak	Horizontal
	11896.6	33.2	11.8	45.0	74.0	-29.0	Peak	Horizontal
*	8796.3	35.5	8.9	44.4	68.2	-23.8	Peak	Vertical
*	9852.1	34.4	11.6	46.0	68.2	-22.2	Peak	Vertical
	10817.5	35.3	12.7	48.0	74.0	-26.0	Peak	Vertical
	11765.1	35.1	11.9	47.0	74.0	-27.0	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	118	Test Engineer:	Milo Li
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
*	13553.0	34.6	13.9	48.5	68.2	-19.7	Peak	Horizontal
*	16776.0	40.7	14.7	55.4	68.2	-12.8	Peak	Horizontal
	10692.3	34.2	12.4	46.6	74.0	-27.4	Peak	Horizontal
	11183.2	42.4	12.6	55.0	74.0	-19.0	Peak	Horizontal
	11183.2	30.3	12.6	42.9	54.0	-11.1	Average	Horizontal
*	13560.3	34.5	13.9	48.4	68.2	-19.8	Peak	Vertical
*	16776.0	40.1	14.7	54.8	68.2	-13.4	Peak	Vertical
	10789.0	34.4	12.6	47.0	74.0	-27.0	Peak	Vertical
	11183.0	40.0	12.6	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	134	Test Engineer:	Milo Li
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
*	13596.1	33.9	13.9	47.8	68.2	-20.4	Peak	Horizontal
*	17005.5	42.5	15.5	58.0	68.2	-10.2	Peak	Horizontal
	10785.4	33.9	12.6	46.5	74.0	-27.5	Peak	Horizontal
	11344.8	45.2	12.5	57.7	74.0	-16.3	Peak	Horizontal
	11344.8	32.6	12.5	45.1	54.0	-8.9	Average	Horizontal
*	13782.3	35.8	14.3	50.1	68.2	-18.1	Peak	Vertical
*	16980.0	40.9	15.4	56.3	68.2	-11.9	Peak	Vertical
	10684.0	34.4	12.4	46.8	74.0	-27.2	Peak	Vertical
	11336.3	42.1	12.5	54.6	74.0	-19.4	Peak	Vertical
	11336.3	30.2	12.5	42.7	54.0	-11.3	Average	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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	151	Test Engineer:	Milo Li
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
*	13843.0	35.4	14.5	49.9	68.2	-18.3	Peak	Horizontal
*	17260.5	40.4	16.1	56.5	68.2	-11.7	Peak	Horizontal
	10873.5	33.2	12.9	46.1	74.0	-27.9	Peak	Horizontal
	11506.3	44.9	12.8	57.7	74.0	-16.3	Peak	Horizontal
	11506.3	30.4	12.8	43.2	54.0	-10.8	Average	Horizontal
*	13560.0	34.7	13.9	48.6	68.2	-19.6	Peak	Vertical
*	17294.5	39.5	16.4	55.9	68.2	-12.3	Peak	Vertical
	10863.1	33.2	12.8	46.0	74.0	-28.0	Peak	Vertical
	11506.3	44.0	12.8	56.8	74.0	-17.2	Peak	Vertical
	11506.3	31.0	12.8	43.8	54.0	-10.2	Average	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11n-HT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	159	Test Engineer:	Milo Li
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
*	13563.0	35.2	13.9	49.1	68.2	-19.1	Peak	Horizontal
*	14689.0	34.7	15.7	50.4	68.2	-17.8	Peak	Horizontal
	10637.2	34.8	12.3	47.1	74.0	-26.9	Peak	Horizontal
	11582.7	43.3	12.6	55.9	74.0	-18.1	Peak	Horizontal
	11582.7	30.4	12.6	43.0	54.0	-11.0	Average	Horizontal
*	13563.0	34.6	13.9	48.5	68.2	-19.7	Peak	Vertical
*	14853.1	34.8	15.1	49.9	68.2	-18.3	Peak	Vertical
	10687.3	34.1	12.4	46.5	74.0	-27.5	Peak	Vertical
	11582.5	41.4	12.6	54.0	74.0	-20.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
*	8963.1	34.7	9.0	43.7	68.2	-24.5	Peak	Horizontal
*	10358.5	50.5	12.2	62.7	68.2	-5.5	Peak	Horizontal
	11569.1	34.5	12.7	47.2	74.0	-26.8	Peak	Horizontal
	15543.6	49.4	12.2	61.6	74.0	-12.4	Peak	Horizontal
	15543.6	36.5	12.2	48.7	54.0	-5.3	Average	Horizontal
*	9872.1	34.5	11.6	46.1	68.2	-22.1	Peak	Vertical
*	10358.5	44.3	12.2	56.5	68.2	-11.7	Peak	Vertical
	11693.1	34.0	12.0	46.0	74.0	-28.0	Peak	Vertical
	15543.7	45.3	12.2	57.5	74.0	-16.5	Peak	Vertical
	15543.7	34.3	12.2	46.5	54.0	-7.5	Average	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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
*	9852.1	33.8	11.6	45.4	68.2	-22.8	Peak	Horizontal
*	10443.5	47.2	12.0	59.2	68.2	-9.0	Peak	Horizontal
	11823.4	33.3	11.9	45.2	74.0	-28.8	Peak	Horizontal
	15661.5	56.7	12.0	68.7	74.0	-5.3	Peak	Horizontal
	15661.5	41.3	12.0	53.3	54.0	-0.7	Average	Horizontal
*	9842.1	33.1	11.6	44.7	68.2	-23.5	Peak	Vertical
*	10443.5	48.7	12.0	60.7	68.2	-7.5	Peak	Vertical
	11534.9	33.9	12.7	46.6	74.0	-27.4	Peak	Vertical
	15662.4	45.0	12.0	57.0	74.0	-17.0	Peak	Vertical
	15662.4	33.2	12.0	45.2	54.0	-8.8	Average	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
*	9756.8	34.1	11.4	45.5	68.2	-22.7	Peak	Horizontal
*	10494.5	47.8	12.4	60.2	68.2	-8.0	Peak	Horizontal
	11854.1	33.1	11.9	45.0	74.0	-29.0	Peak	Horizontal
	15721.5	56.6	11.8	68.4	74.0	-5.6	Peak	Horizontal
	15721.5	39.9	11.8	51.7	54.0	-2.3	Average	Horizontal
*	9863.4	33.8	11.6	45.4	68.2	-22.8	Peak	Vertical
*	10477.5	45.5	12.2	57.7	68.2	-10.5	Peak	Vertical
	11563.4	34.3	12.7	47.0	74.0	-27.0	Peak	Vertical
	15722.3	47.8	11.8	59.6	74.0	-14.4	Peak	Vertical
	15722.3	35.2	11.8	47.0	54.0	-7.0	Average	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	52	Test Engineer:	Milo Li
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
*	9874.3	34.0	11.6	45.6	68.2	-22.6	Peak	Horizontal
*	10520.0	46.4	12.4	58.8	68.2	-9.4	Peak	Horizontal
	11523.6	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	15781.7	50.1	11.7	61.8	74.0	-12.2	Peak	Horizontal
	15781.7	38.2	11.7	49.9	54.0	-4.1	Average	Horizontal
*	9763.4	33.4	11.4	44.8	68.2	-23.4	Peak	Vertical
*	10520.0	40.3	12.4	52.7	68.2	-15.5	Peak	Vertical
	11689.0	34.3	12.1	46.4	74.0	-27.6	Peak	Vertical
	15781.6	46.1	11.7	57.8	74.0	-16.2	Peak	Vertical
	15781.6	34.2	11.7	45.9	54.0	-8.1	Average	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	60	Test Engineer:	Milo Li
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
*	9756.3	34.0	11.4	45.4	68.2	-22.8	Peak	Horizontal
*	10588.0	42.1	12.4	54.5	68.2	-13.7	Peak	Horizontal
	11576.0	34.1	12.6	46.7	74.0	-27.3	Peak	Horizontal
	15900.7	48.8	11.7	60.5	74.0	-13.5	Peak	Horizontal
	15900.7	35.4	11.7	47.1	54.0	-6.9	Average	Horizontal
*	9752.3	34.3	11.4	45.7	68.2	-22.5	Peak	Vertical
*	10596.5	44.0	12.4	56.4	68.2	-11.8	Peak	Vertical
	11573.6	34.0	12.6	46.6	74.0	-27.4	Peak	Vertical
	15900.9	45.7	11.7	57.4	74.0	-16.6	Peak	Vertical
	15900.9	33.5	11.7	45.2	54.0	-8.8	Average	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	64	Test Engineer:	Milo Li
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
*	8632.0	35.1	8.8	43.9	68.2	-24.3	Peak	Horizontal
*	9875.0	33.8	11.6	45.4	68.2	-22.8	Peak	Horizontal
	10647.5	36.9	12.3	49.2	74.0	-24.8	Peak	Horizontal
	15960.0	41.8	11.7	53.5	74.0	-20.5	Peak	Horizontal
*	8563.0	36.1	8.6	44.7	68.2	-23.5	Peak	Vertical
*	9763.1	33.6	11.4	45.0	68.2	-23.2	Peak	Vertical
	10639.0	36.0	12.3	48.3	74.0	-25.7	Peak	Vertical
	15960.0	38.1	11.7	49.8	74.0	-24.2	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	100	Test Engineer:	Milo Li
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
*	13554.0	35.8	13.9	49.7	68.2	-18.5	Peak	Horizontal
*	16504.0	43.3	13.4	56.7	68.2	-11.5	Peak	Horizontal
	10875.3	33.0	12.9	45.9	74.0	-28.1	Peak	Horizontal
	11004.9	41.6	13.0	54.6	74.0	-19.4	Peak	Horizontal
	11004.9	29.6	13.0	42.6	54.0	-11.4	Average	Horizontal
*	13586.0	34.7	13.9	48.6	68.2	-19.6	Peak	Vertical
*	16504.0	40.4	13.4	53.8	68.2	-14.4	Peak	Vertical
	10996.0	39.9	13.0	52.9	74.0	-21.1	Peak	Vertical
	11763.4	34.6	11.9	46.5	74.0	-27.5	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	120	Test Engineer:	Milo Li
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
*	13590.0	34.0	13.9	47.9	68.2	-20.3	Peak	Horizontal
*	16801.5	42.9	14.8	57.7	68.2	-10.5	Peak	Horizontal
	11200.3	44.1	12.5	56.6	74.0	-17.4	Peak	Horizontal
	11200.3	31.4	12.5	43.9	54.0	-10.1	Average	Horizontal
	12240.0	34.6	11.7	46.3	74.0	-27.7	Peak	Horizontal
*	13580.0	34.1	14.0	48.1	68.2	-20.1	Peak	Vertical
*	16801.5	40.6	14.8	55.4	68.2	-12.8	Peak	Vertical
	11200.0	40.2	12.5	52.7	74.0	-21.3	Peak	Vertical
	12459.0	34.4	11.5	45.9	74.0	-28.1	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	140	Test Engineer:	Milo Li
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
*	13559.0	34.4	13.9	48.3	68.2	-19.9	Peak	Horizontal
*	14689.0	34.6	15.7	50.3	68.2	-17.9	Peak	Horizontal
	11404.3	42.2	12.6	54.8	74.0	-19.2	Peak	Horizontal
	11404.3	30.1	12.6	42.7	54.0	-11.3	Average	Horizontal
	12570.0	34.2	11.3	45.5	74.0	-28.5	Peak	Horizontal
*	13563.0	34.9	13.9	48.8	68.2	-19.4	Peak	Vertical
*	14695.0	34.8	15.7	50.5	68.2	-17.7	Peak	Vertical
	11404.0	39.2	12.6	51.8	74.0	-22.2	Peak	Vertical
	12642.0	33.2	11.4	44.6	74.0	-29.4	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	144	Test Engineer:	Milo Li
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
*	14687.0	34.6	15.7	50.3	68.2	-17.9	Peak	Horizontal
*	17167.0	41.8	15.8	57.6	68.2	-10.6	Peak	Horizontal
	11446.6	47.7	12.7	60.4	74.0	-13.6	Peak	Horizontal
	11446.6	34.6	12.7	47.3	54.0	-6.7	Average	Horizontal
	12645.0	33.5	11.4	44.9	74.0	-29.1	Peak	Horizontal
*	13850.0	34.9	14.5	49.4	68.2	-18.8	Peak	Vertical
*	17158.5	39.2	15.7	54.9	68.2	-13.3	Peak	Vertical
	11438.0	40.2	12.6	52.8	74.0	-21.2	Peak	Vertical
	12456.0	34.1	11.5	45.6	74.0	-28.4	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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
*	13576.0	34.4	14.0	48.4	68.2	-19.8	Peak	Horizontal
*	14853.0	35.5	15.1	50.6	68.2	-17.6	Peak	Horizontal
	11489.3	43.2	12.8	56.0	74.0	-18.0	Peak	Horizontal
	11489.3	30.9	12.8	43.7	54.0	-10.3	Average	Horizontal
	12483.0	33.8	11.4	45.2	74.0	-28.8	Peak	Horizontal
*	13563.0	33.9	13.9	47.8	68.2	-20.4	Peak	Vertical
*	14863.0	34.0	15.1	49.1	68.2	-19.1	Peak	Vertical
	11489.0	41.0	12.8	53.8	74.0	-20.2	Peak	Vertical
	12463.0	34.6	11.5	46.1	74.0	-27.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
*	13689.0	35.5	14.0	49.5	68.2	-18.7	Peak	Horizontal
*	17354.0	40.4	16.9	57.3	68.2	-10.9	Peak	Horizontal
	11574.4	47.4	12.6	60.0	74.0	-14.0	Peak	Horizontal
	11574.4	35.4	12.6	48.0	54.0	-6.0	Average	Horizontal
	12459.0	35.0	11.5	46.5	74.0	-27.5	Peak	Horizontal
*	14685.0	34.6	15.7	50.3	68.2	-17.9	Peak	Vertical
*	17354.0	43.8	16.9	60.7	68.2	-7.5	Peak	Vertical
	11565.4	44.1	12.7	56.8	74.0	-17.2	Peak	Vertical
	11565.4	31.2	12.7	43.9	54.0	-10.1	Average	Vertical
	12486.0	33.8	11.4	45.2	74.0	-28.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT20 – Ant 0 + 1	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
*	13563.0	34.2	13.9	48.1	68.2	-20.1	Peak	Horizontal
*	14896.2	34.4	15.0	49.4	68.2	-18.8	Peak	Horizontal
	11650.4	44.6	12.3	56.9	74.0	-17.1	Peak	Horizontal
	11650.4	31.3	12.3	43.6	54.0	-10.4	Average	Horizontal
	12385.0	34.5	11.5	46.0	74.0	-28.0	Peak	Horizontal
*	13853.1	35.1	14.5	49.6	68.2	-18.6	Peak	Vertical
*	14953.2	33.9	14.8	48.7	68.2	-19.5	Peak	Vertical
	11659.0	39.8	12.3	52.1	74.0	-21.9	Peak	Vertical
	12129.4	32.9	11.9	44.8	74.0	-29.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	38	Test Engineer:	Milo Li
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
*	9872.3	33.7	11.6	45.3	68.2	-22.9	Peak	Horizontal
*	10375.5	43.6	12.2	55.8	68.2	-12.4	Peak	Horizontal
	11843.2	33.7	11.9	45.6	74.0	-28.4	Peak	Horizontal
	15568.5	46.4	12.1	58.5	74.0	-15.5	Peak	Horizontal
	15568.5	34.5	12.1	46.6	54.0	-7.4	Average	Horizontal
*	9852.1	34.2	11.6	45.8	68.2	-22.4	Peak	Vertical
*	10384.0	40.3	12.3	52.6	68.2	-15.6	Peak	Vertical
	11873.2	33.7	11.8	45.5	74.0	-28.5	Peak	Vertical
	15569.8	43.7	12.1	55.8	74.0	-18.2	Peak	Vertical
	15569.8	31.0	12.1	43.1	54.0	-10.9	Average	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	46	Test Engineer:	Milo Li
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
*	9673.1	33.9	10.9	44.8	68.2	-23.4	Peak	Horizontal
*	10460.5	45.7	12.1	57.8	68.2	-10.4	Peak	Horizontal
	11876.0	34.5	11.8	46.3	74.0	-27.7	Peak	Horizontal
	15693.7	55.9	11.9	67.8	74.0	-6.2	Peak	Horizontal
	15693.7	40.7	11.9	52.6	54.0	-1.4	Average	Horizontal
*	8763.5	35.8	9.0	44.8	68.2	-23.4	Peak	Vertical
*	10452.0	44.3	12.0	56.3	68.2	-11.9	Peak	Vertical
	11863.5	33.7	11.8	45.5	74.0	-28.5	Peak	Vertical
	15678.1	45.6	11.9	57.5	74.0	-16.5	Peak	Vertical
	15678.1	33.1	11.9	45.0	54.0	-9.0	Average	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	54	Test Engineer:	Milo Li
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
*	9634.2	33.9	11.0	44.9	68.2	-23.3	Peak	Horizontal
*	10545.5	42.4	12.5	54.9	68.2	-13.3	Peak	Horizontal
	11683.0	34.7	12.1	46.8	74.0	-27.2	Peak	Horizontal
	15806.0	52.5	11.7	64.2	74.0	-9.8	Peak	Horizontal
	15806.0	40.1	11.7	51.8	54.0	-2.2	Average	Horizontal
*	9752.3	33.9	11.4	45.3	68.2	-22.9	Peak	Vertical
*	10537.0	40.3	12.5	52.8	68.2	-15.4	Peak	Vertical
	11963.4	34.0	11.9	45.9	74.0	-28.1	Peak	Vertical
	15799.6	42.3	11.7	54.0	74.0	-20.0	Peak	Vertical
	15799.6	30.1	11.7	41.8	54.0	-12.2	Average	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	62	Test Engineer:	Milo Li
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
*	8763.1	34.7	9.0	43.7	68.2	-24.5	Peak	Horizontal
*	9852.1	33.6	11.6	45.2	68.2	-23.0	Peak	Horizontal
	11761.0	37.4	11.9	49.3	74.0	-24.7	Peak	Horizontal
	15933.2	39.9	11.7	51.6	74.0	-22.4	Peak	Horizontal
	15933.2	27.9	11.7	39.6	54.0	-14.4	Average	Horizontal
*	8752.1	34.4	9.0	43.4	68.2	-24.8	Peak	Vertical
*	9863.1	33.4	11.6	45.0	68.2	-23.2	Peak	Vertical
	10622.0	35.9	12.4	48.3	74.0	-25.7	Peak	Vertical
	12263.1	34.9	11.7	46.6	74.0	-27.4	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	102	Test Engineer:	Milo Li
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
*	8936.1	34.5	9.0	43.5	68.2	-24.7	Peak	Horizontal
*	9632.4	34.0	11.0	45.0	68.2	-23.2	Peak	Horizontal
	11021.5	37.1	13.0	50.1	74.0	-23.9	Peak	Horizontal
	12245.3	35.2	11.7	46.9	74.0	-27.1	Peak	Horizontal
*	8756.3	34.7	9.0	43.7	68.2	-24.5	Peak	Vertical
*	9842.1	34.0	11.6	45.6	68.2	-22.6	Peak	Vertical
	11013.0	34.6	13.0	47.6	74.0	-26.4	Peak	Vertical
	12553.0	33.8	11.3	45.1	74.0	-28.9	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	118	Test Engineer:	Milo Li
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
*	13658.0	34.7	13.9	48.6	68.2	-19.6	Peak	Horizontal
*	16776.0	41.3	14.7	56.0	68.2	-12.2	Peak	Horizontal
	11173.6	43.8	12.6	56.4	74.0	-17.6	Peak	Horizontal
	11173.6	31.6	12.6	44.2	54.0	-9.8	Average	Horizontal
	12453.6	34.2	11.5	45.7	74.0	-28.3	Peak	Horizontal
*	13680.0	34.4	14.0	48.4	68.2	-19.8	Peak	Vertical
*	16776.0	37.9	14.7	52.6	68.2	-15.6	Peak	Vertical
	11157.5	39.3	12.6	51.9	74.0	-22.1	Peak	Vertical
	12258.0	34.1	11.7	45.8	74.0	-28.2	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	134	Test Engineer:	Milo Li
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
*	13856.0	35.2	14.5	49.7	68.2	-18.5	Peak	Horizontal
*	17014.0	39.1	15.4	54.5	68.2	-13.7	Peak	Horizontal
	11335.4	43.6	12.5	56.1	74.0	-17.9	Peak	Horizontal
	11335.4	31.5	12.5	44.0	54.0	-10.0	Average	Horizontal
	12253.0	33.9	11.7	45.6	74.0	-28.4	Peak	Horizontal
*	13853.0	35.5	14.5	50.0	68.2	-18.2	Peak	Vertical
*	17014.0	38.1	15.4	53.5	68.2	-14.7	Peak	Vertical
	11336.0	40.1	12.5	52.6	74.0	-21.4	Peak	Vertical
	12458.0	34.0	11.5	45.5	74.0	-28.5	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	142	Test Engineer:	Milo Li
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
*	14680.0	35.1	15.7	50.8	68.2	-17.4	Peak	Horizontal
*	17124.5	41.1	15.6	56.7	68.2	-11.5	Peak	Horizontal
	11420.4	43.4	12.6	56.0	74.0	-18.0	Peak	Horizontal
	11420.4	31.2	12.6	43.8	54.0	-10.2	Average	Horizontal
	12523.0	34.3	11.4	45.7	74.0	-28.3	Peak	Horizontal
*	14682.1	34.2	15.7	49.9	68.2	-18.3	Peak	Vertical
*	17124.5	42.0	15.6	57.6	68.2	-10.6	Peak	Vertical
	11429.5	40.4	12.6	53.0	74.0	-21.0	Peak	Vertical
	12563.1	34.7	11.3	46.0	74.0	-28.0	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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	151	Test Engineer:	Milo Li
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
*	13556.0	34.5	13.9	48.4	68.2	-19.8	Peak	Horizontal
*	14683.2	34.8	15.7	50.5	68.2	-17.7	Peak	Horizontal
	11505.7	43.3	12.8	56.1	74.0	-17.9	Peak	Horizontal
	11505.7	31.3	12.8	44.1	54.0	-9.9	Average	Horizontal
	12543.1	34.3	11.3	45.6	74.0	-28.4	Peak	Horizontal
*	13682.0	34.6	14.0	48.6	68.2	-19.6	Peak	Vertical
*	14673.1	34.5	15.7	50.2	68.2	-18.0	Peak	Vertical
	11514.5	39.0	12.8	51.8	74.0	-22.2	Peak	Vertical
	12456.0	34.5	11.5	46.0	74.0	-28.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT40 – Ant 0 + 1	Test Site:	AC1
Test Channel:	159	Test Engineer:	Milo Li
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
*	13689.2	34.9	14.0	48.9	68.2	-19.3	Peak	Horizontal
*	14753.2	34.9	15.6	50.5	68.2	-17.7	Peak	Horizontal
	11590.7	42.2	12.6	54.8	74.0	-19.2	Peak	Horizontal
	11590.7	30.1	12.6	42.7	54.0	-11.3	Average	Horizontal
	12459.3	34.9	11.5	46.4	74.0	-27.6	Peak	Horizontal
*	13559.0	34.0	13.9	47.9	68.2	-20.3	Peak	Vertical
*	14678.0	34.5	15.7	50.2	68.2	-18.0	Peak	Vertical
	11591.0	39.0	12.6	51.6	74.0	-22.4	Peak	Vertical
	12486.0	33.4	11.4	44.8	74.0	-29.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	42	Test Engineer:	Milo Li
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
*	9876.0	33.0	11.6	44.6	68.2	-23.6	Peak	Horizontal
*	10426.5	38.2	12.1	50.3	68.2	-17.9	Peak	Horizontal
	11853.2	32.9	11.9	44.8	74.0	-29.2	Peak	Horizontal
	15576.8	43.0	12.1	55.1	74.0	-18.9	Peak	Horizontal
	15576.8	30.5	12.1	42.6	54.0	-11.4	Average	Horizontal
*	9765.3	33.8	11.4	45.2	68.2	-23.0	Peak	Vertical
*	10426.5	40.3	12.1	52.4	68.2	-15.8	Peak	Vertical
	11753.6	34.8	11.9	46.7	74.0	-27.3	Peak	Vertical
	15603.0	39.4	12.2	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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	58	Test Engineer:	Milo Li
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
*	9632.4	33.7	11.0	44.7	68.2	-23.5	Peak	Horizontal
*	10571.0	40.2	12.4	52.6	68.2	-15.6	Peak	Horizontal
	11573.1	33.9	12.6	46.5	74.0	-27.5	Peak	Horizontal
	15866.5	41.6	11.7	53.3	74.0	-20.7	Peak	Horizontal
*	8743.2	35.6	9.0	44.6	68.2	-23.6	Peak	Vertical
*	9876.0	33.2	11.6	44.8	68.2	-23.4	Peak	Vertical
	10605.0	37.3	12.4	49.7	74.0	-24.3	Peak	Vertical
	12453.1	34.1	11.5	45.6	74.0	-28.4	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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	106	Test Engineer:	Milo Li
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
*	13680.0	35.4	14.0	49.4	68.2	-18.8	Peak	Horizontal
*	16597.5	39.6	13.8	53.4	68.2	-14.8	Peak	Horizontal
	11089.5	39.6	12.8	52.4	74.0	-21.6	Peak	Horizontal
	12453.0	34.1	11.5	45.6	74.0	-28.4	Peak	Horizontal
*	13569.1	33.8	13.9	47.7	68.2	-20.5	Peak	Vertical
*	14683.5	34.5	15.7	50.2	68.2	-18.0	Peak	Vertical
	11064.0	35.3	12.8	48.1	74.0	-25.9	Peak	Vertical
	12458.3	34.3	11.5	45.8	74.0	-28.2	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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	122	Test Engineer:	Milo Li
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
*	13683.1	34.8	14.0	48.8	68.2	-19.4	Peak	Horizontal
*	16801.5	40.7	14.8	55.5	68.2	-12.7	Peak	Horizontal
	11233.4	42.6	12.4	55.0	74.0	-19.0	Peak	Horizontal
	11233.4	30.5	12.4	42.9	54.0	-11.1	Average	Horizontal
	12381.0	33.9	11.5	45.4	74.0	-28.6	Peak	Horizontal
*	13569.0	33.9	13.9	47.8	68.2	-20.4	Peak	Vertical
*	16861.0	39.3	15.2	54.5	68.2	-13.7	Peak	Vertical
	11217.0	38.2	12.4	50.6	74.0	-23.4	Peak	Vertical
	12359.4	33.5	11.5	45.0	74.0	-29.0	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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	138	Test Engineer:	Milo Li
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
*	13682.3	35.0	14.0	49.0	68.2	-19.2	Peak	Horizontal
*	17107.5	39.0	15.6	54.6	68.2	-13.6	Peak	Horizontal
	11387.0	41.1	12.6	53.7	74.0	-20.3	Peak	Horizontal
	12483.0	34.4	11.4	45.8	74.0	-28.2	Peak	Horizontal
*	13856.3	35.2	14.5	49.7	68.2	-18.5	Peak	Vertical
*	17099.0	37.1	15.6	52.7	68.2	-15.5	Peak	Vertical
	11387.0	40.6	12.6	53.2	74.0	-20.8	Peak	Vertical
	12685.3	34.2	11.5	45.7	74.0	-28.3	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)

Test Mode:	802.11ac-VHT80 – Ant 0 + 1	Test Site:	AC1
Test Channel:	155	Test Engineer:	Milo Li
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
*	13556.4	33.8	13.9	47.7	68.2	-20.5	Peak	Horizontal
*	17311.5	37.0	16.6	53.6	68.2	-14.6	Peak	Horizontal
	11557.0	40.1	12.7	52.8	74.0	-21.2	Peak	Horizontal
	12453.3	34.6	11.5	46.1	74.0	-27.9	Peak	Horizontal
*	13556.0	33.9	13.9	47.8	68.2	-20.4	Peak	Vertical
*	14853.0	34.5	15.1	49.6	68.2	-18.6	Peak	Vertical
	11548.5	38.3	12.7	51.0	74.0	-23.0	Peak	Vertical
	12485.6	35.5	11.4	46.9	74.0	-27.1	Peak	Vertical

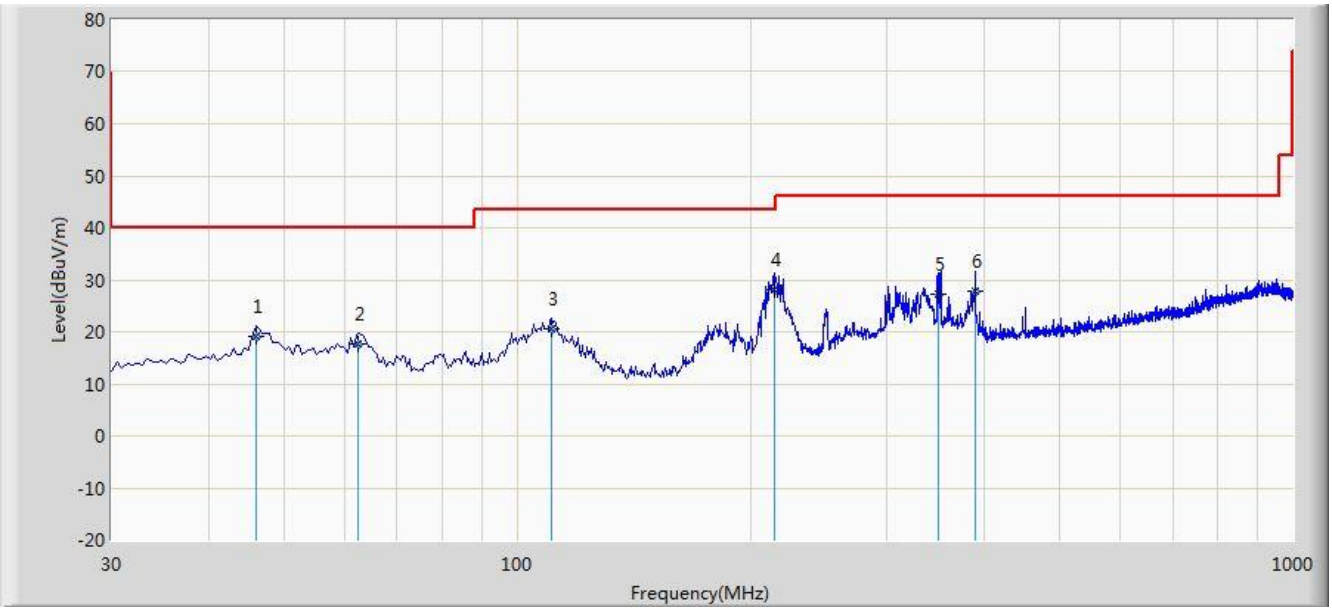
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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: AC 1	Time: 2015/07/26 - 17:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Worst Mode: Transmit by 802.11a at channel 5500MHz Ant 0 + 1	

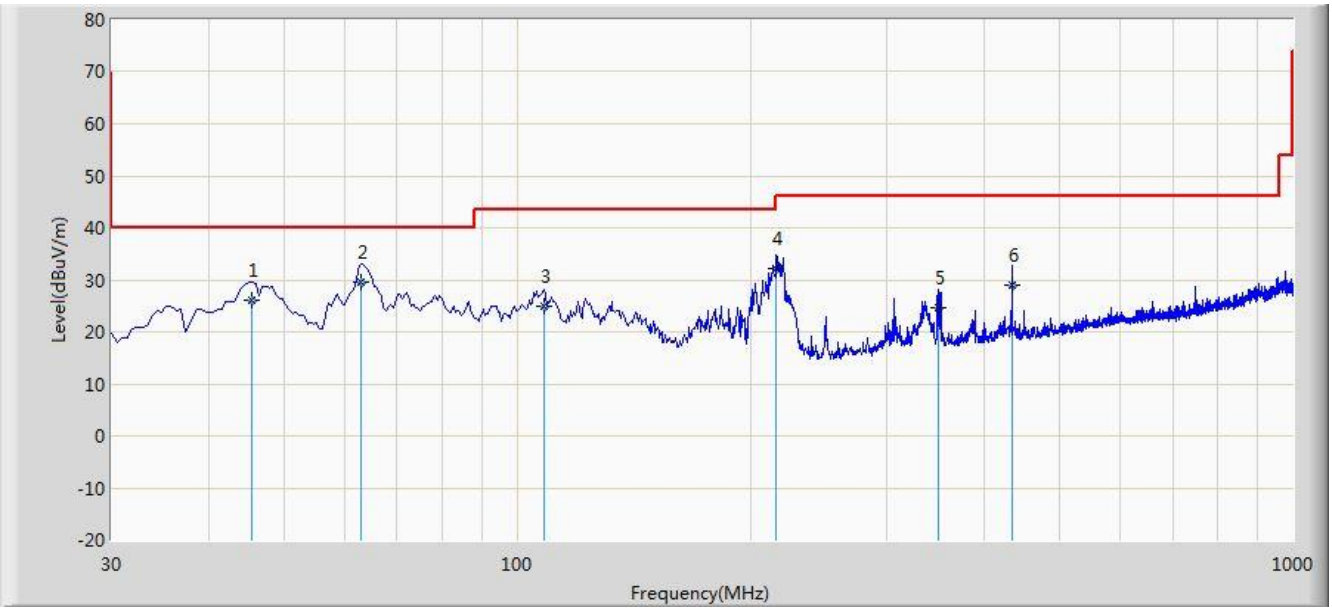


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.005	19.259	4.300	-20.741	40.000	14.959	QP
2			62.495	17.656	4.300	-22.344	40.000	13.356	QP
3			110.995	20.470	7.600	-23.030	43.500	12.870	QP
4		*	214.785	28.251	15.600	-15.249	43.500	12.651	QP
5			348.645	27.233	11.300	-18.767	46.000	15.933	QP
6			389.870	27.865	11.200	-18.135	46.000	16.665	QP

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

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

Site: AC 1	Time: 2015/07/26 - 17:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Worst Mode: Transmit by 802.11a at channel 5500MHz Ant 0 + 1	

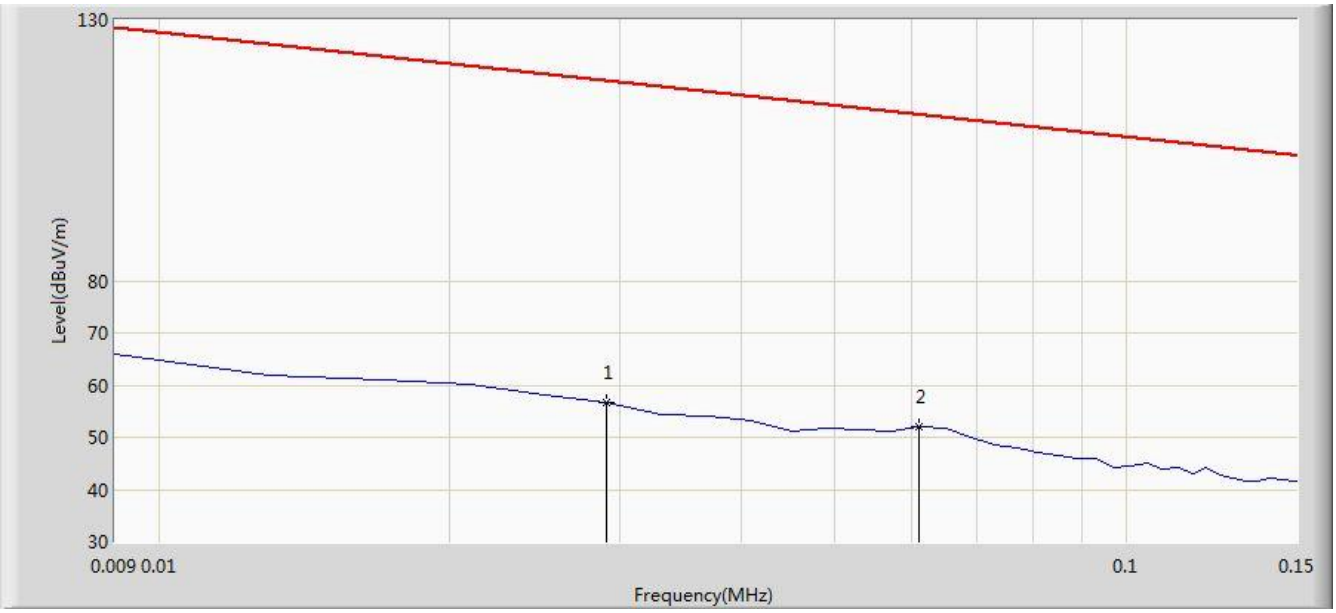


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			45.520	26.190	11.300	-13.810	40.000	14.890	QP
2		*	62.980	29.594	16.400	-10.406	40.000	13.194	QP
3			108.570	24.827	11.700	-18.673	43.500	13.127	QP
4			215.755	32.295	19.600	-11.205	43.500	12.695	QP
5			348.645	24.533	8.600	-21.467	46.000	15.933	QP
6			434.975	28.932	11.600	-17.068	46.000	17.333	QP

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

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

Site: AC1	Time: 2015/07/26 - 19:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: Smart Gateway	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

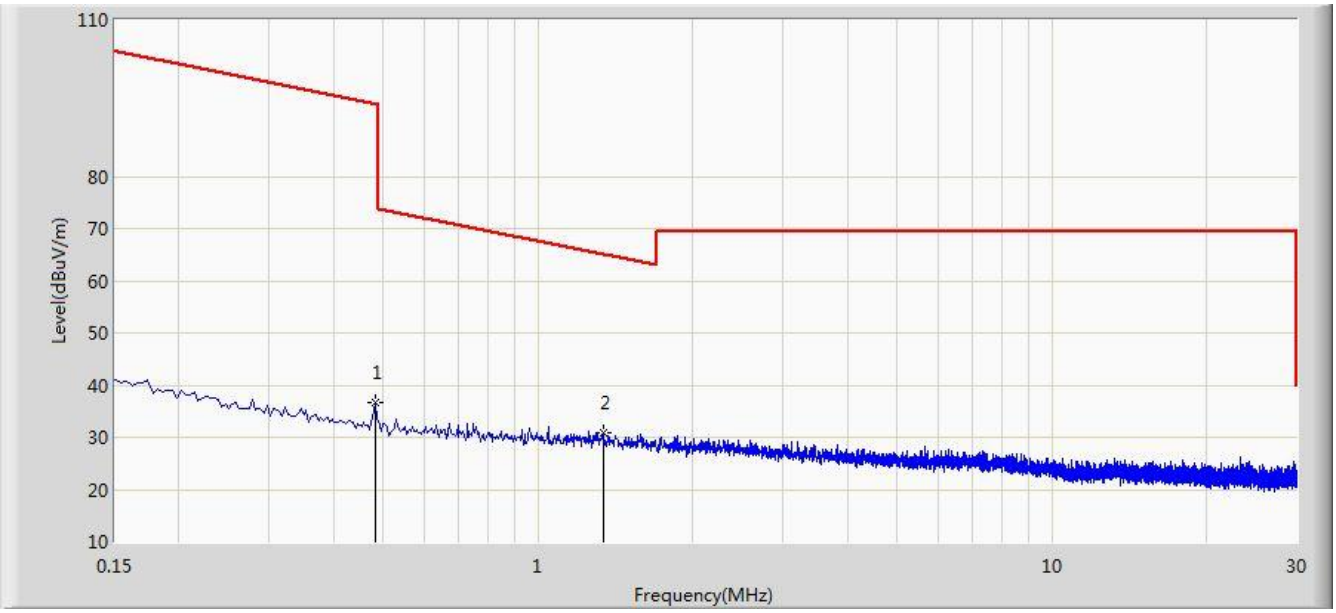


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.029	56.610	35.660	-61.732	118.342	21.049	QP
2		*	0.061	51.899	31.588	-59.988	111.887	20.311	QP

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

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

Site: AC1	Time: 2015/07/26 - 19:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: Smart Gateway	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

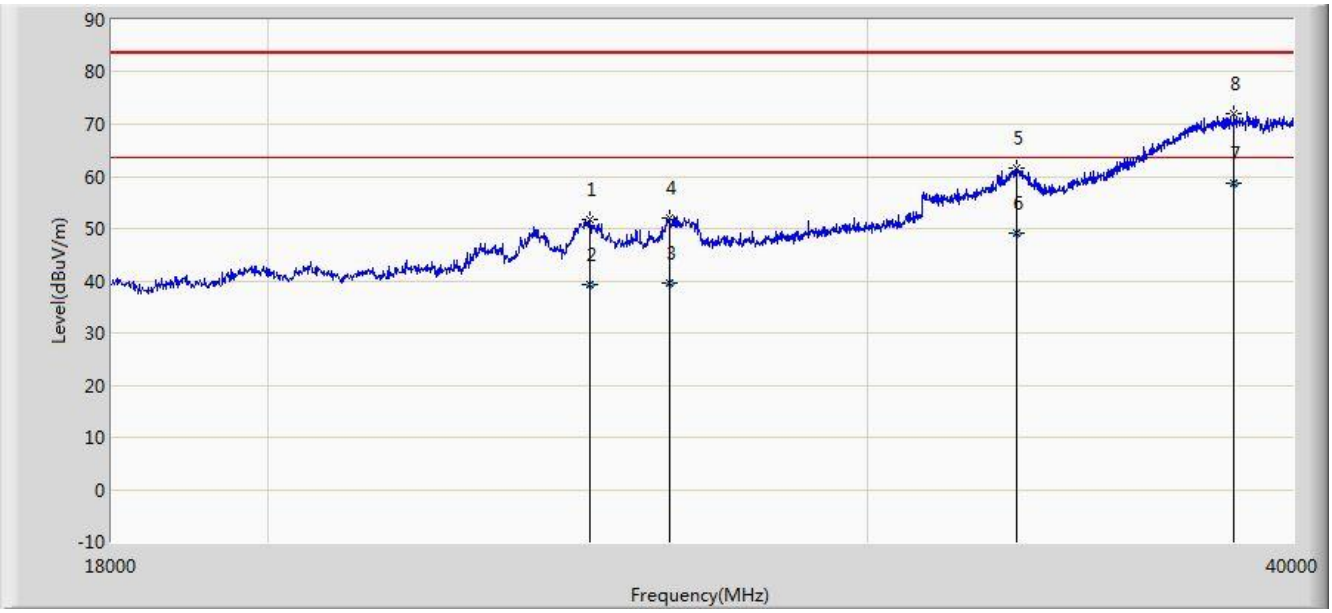


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.482	36.584	16.183	-57.359	93.943	20.401	QP
2		*	1.338	31.001	10.512	-34.098	65.099	20.489	QP

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

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

Site: AC1	Time: 2015/07/26 - 21:25
Limit: FCC_Part15.209_RE(1m)	Engineer: Milo Li
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 18GHz~40GHz.	

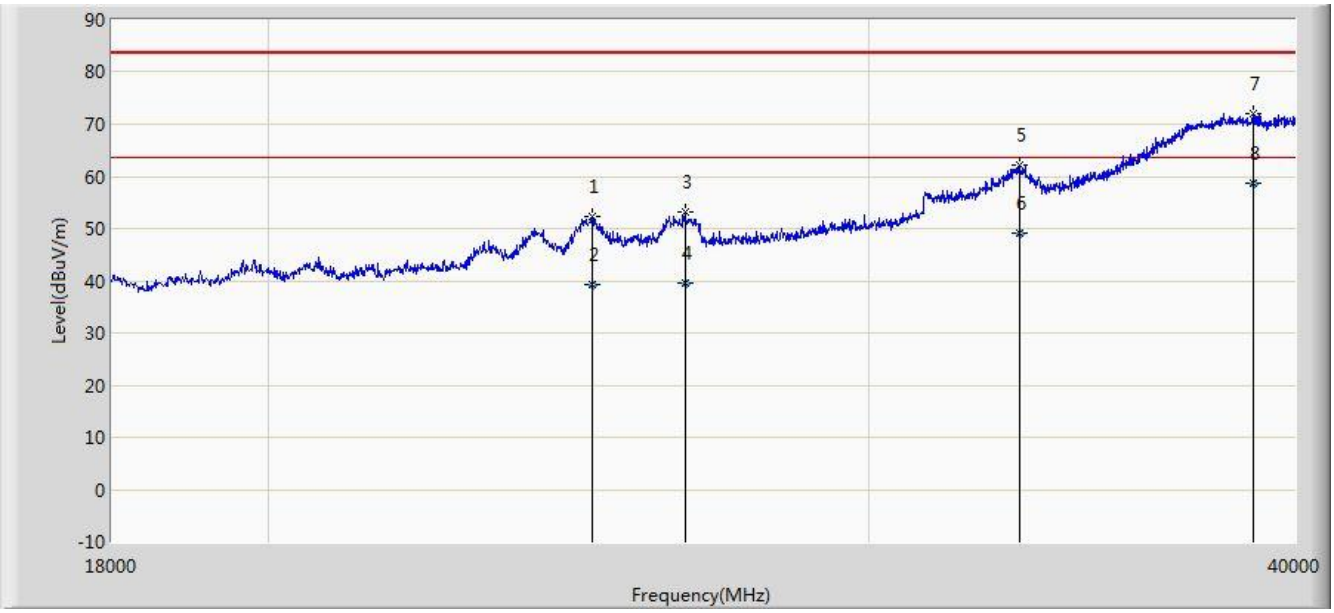


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			24864.000	51.836	37.061	-31.664	83.500	14.775	PK
2			24864.088	39.225	24.450	-24.275	63.500	14.775	AV
3			26260.988	39.469	24.050	-24.031	63.500	15.419	AV
4			26261.000	51.956	36.537	-31.544	83.500	15.419	PK
5			33180.000	61.461	39.940	-22.039	83.500	21.521	PK
6			33180.361	49.061	27.540	-14.439	63.500	21.521	AV
7		*	38437.980	58.523	31.190	-4.977	63.500	27.333	AV
8			38438.000	72.021	44.688	-11.479	83.500	27.333	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: 2015/07/26 - 21:28
Limit: FCC_Part15.209_RE(1m)	Engineer: Milo Li
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Note: There is the ambient noise within frequency range 18GHz~40GHz.	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			24886.000	52.313	37.528	-31.187	83.500	14.785	PK
2			24886.970	39.234	24.449	-24.266	63.500	14.785	AV
3			26503.000	53.227	37.207	-30.273	83.500	16.020	PK
4			26503.872	39.572	23.550	-23.928	63.500	16.022	AV
5			33213.000	62.110	40.572	-21.390	83.500	21.538	PK
6			33213.984	49.098	27.560	-14.402	63.500	21.538	AV
7			38900.000	72.096	44.211	-11.404	83.500	27.885	PK
8		*	38900.755	58.705	30.820	-4.795	63.500	27.885	AV

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

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

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.

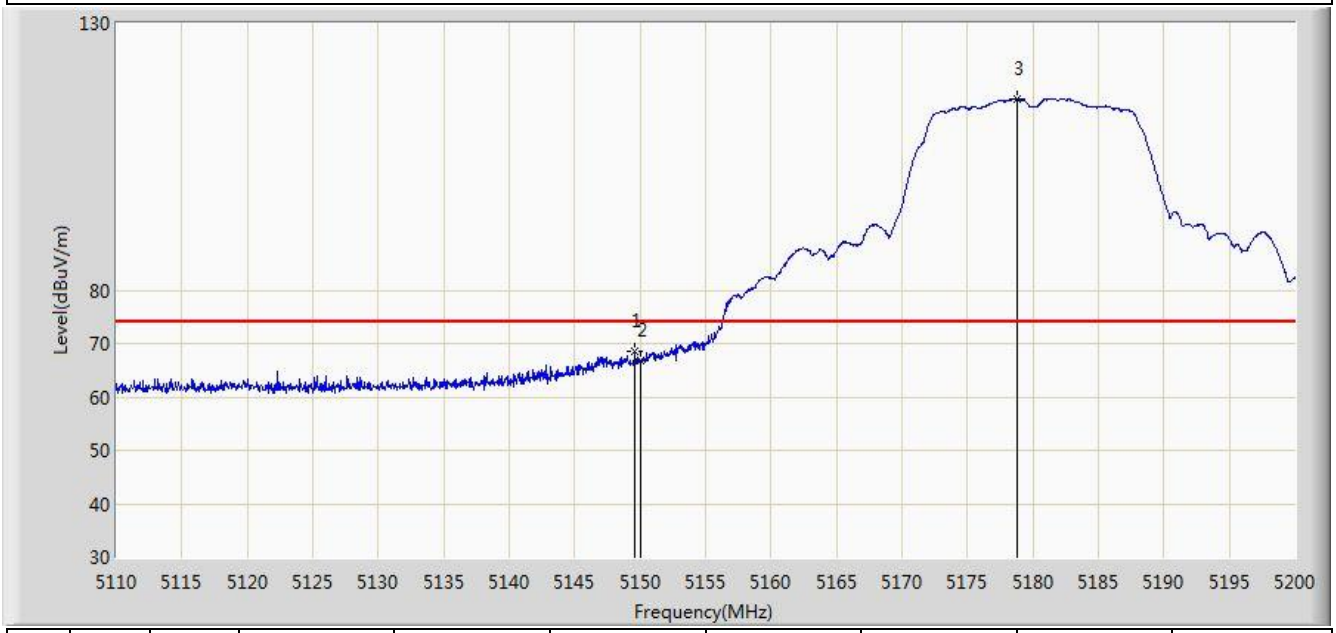
Refer to KDB 789033 D02v01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and 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 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/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 Result of Radiated Restricted Band Edge

Site: AC 1	Time: 2015/07/26 - 00:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 0 + 1	

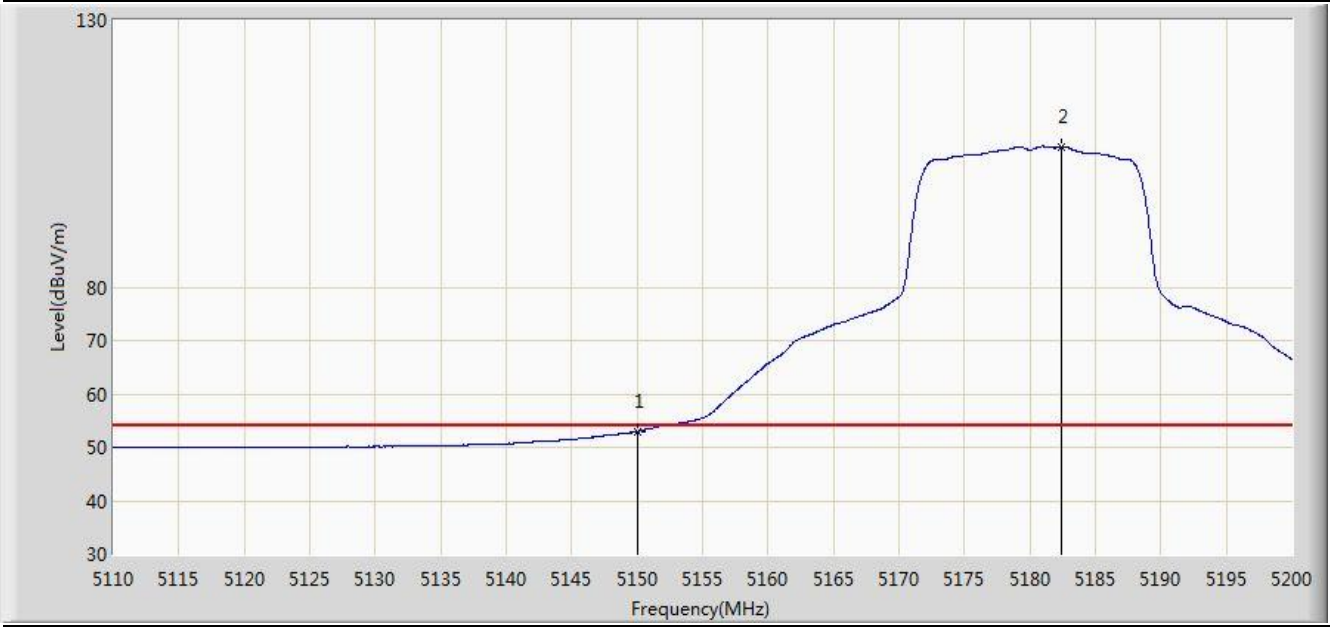


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.600	68.588	31.136	-5.412	74.000	37.452	PK
2			5150.000	66.678	29.226	-7.322	74.000	37.452	PK
3		*	5178.805	115.816	78.440	N/A	N/A	37.376	PK

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

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

Site: AC 1	Time: 2015/07/26 - 00:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 0 + 1	

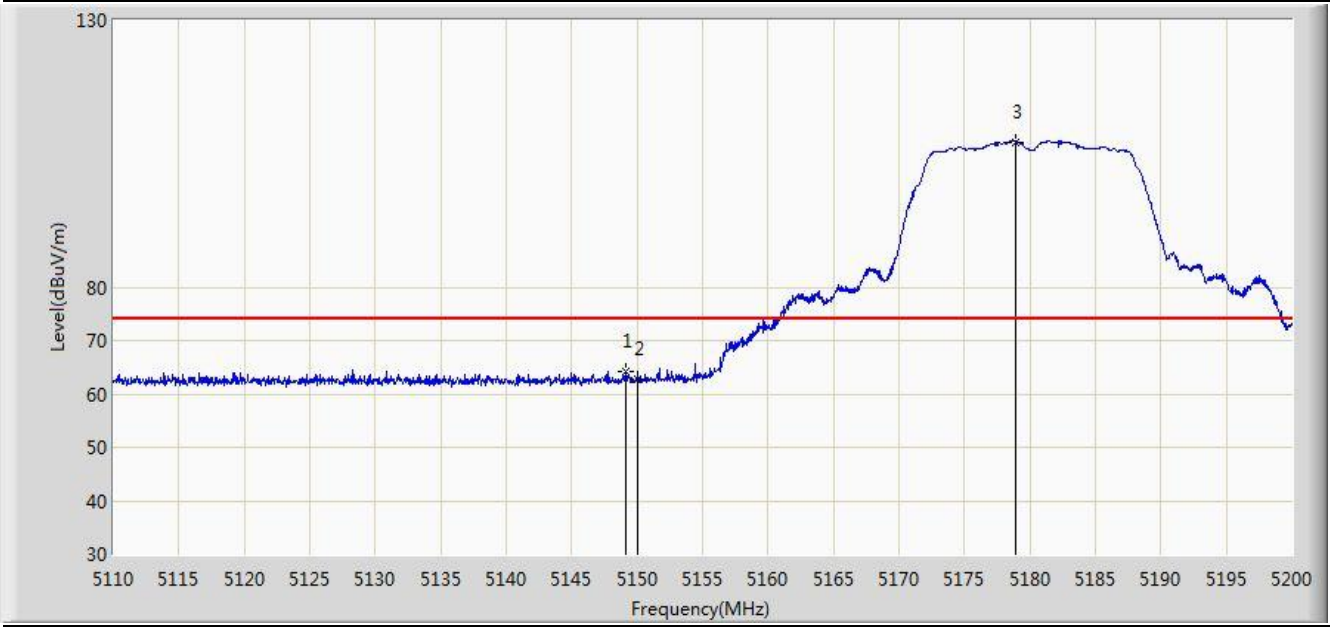


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.954	15.502	-1.046	54.000	37.452	AV
2		*	5182.405	106.248	68.880	N/A	N/A	37.368	AV

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

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

Site: AC 1	Time: 2015/07/26 - 00:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 0 + 1	

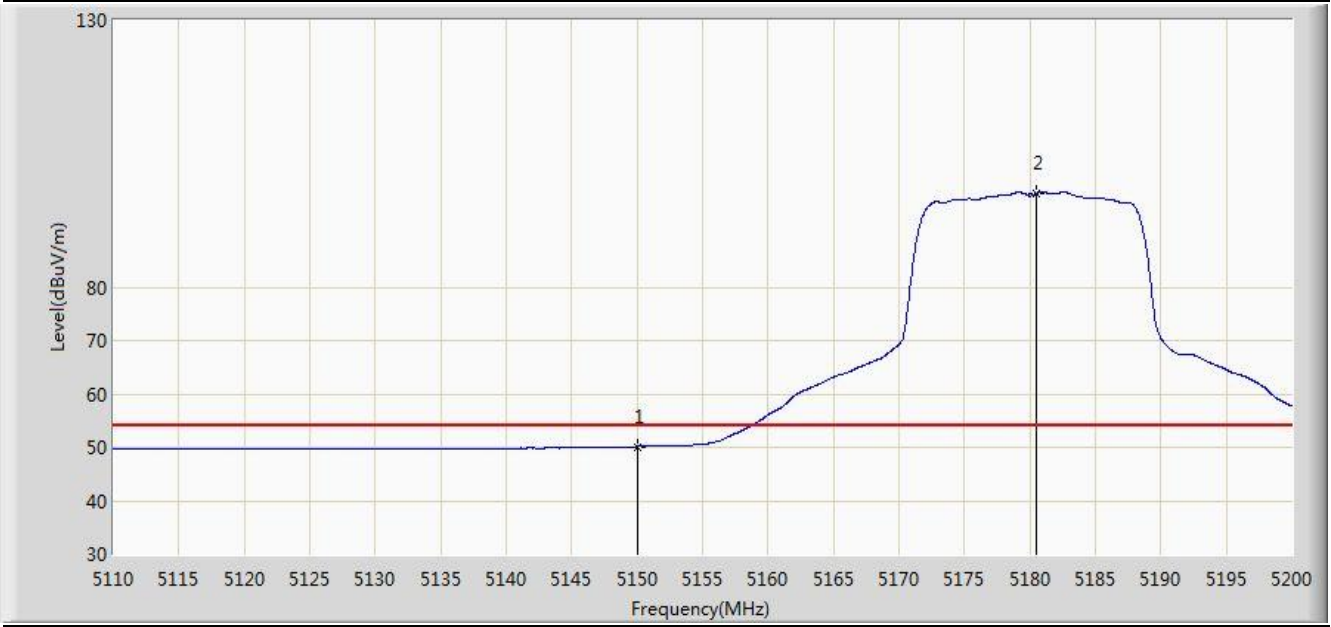


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.105	64.184	26.731	-9.816	74.000	37.453	PK
2			5150.000	62.843	25.391	-11.157	74.000	37.452	PK
3		*	5178.940	107.207	69.831	N/A	N/A	37.376	PK

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

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

Site: AC 1	Time: 2015/07/26 - 00:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 0 + 1	

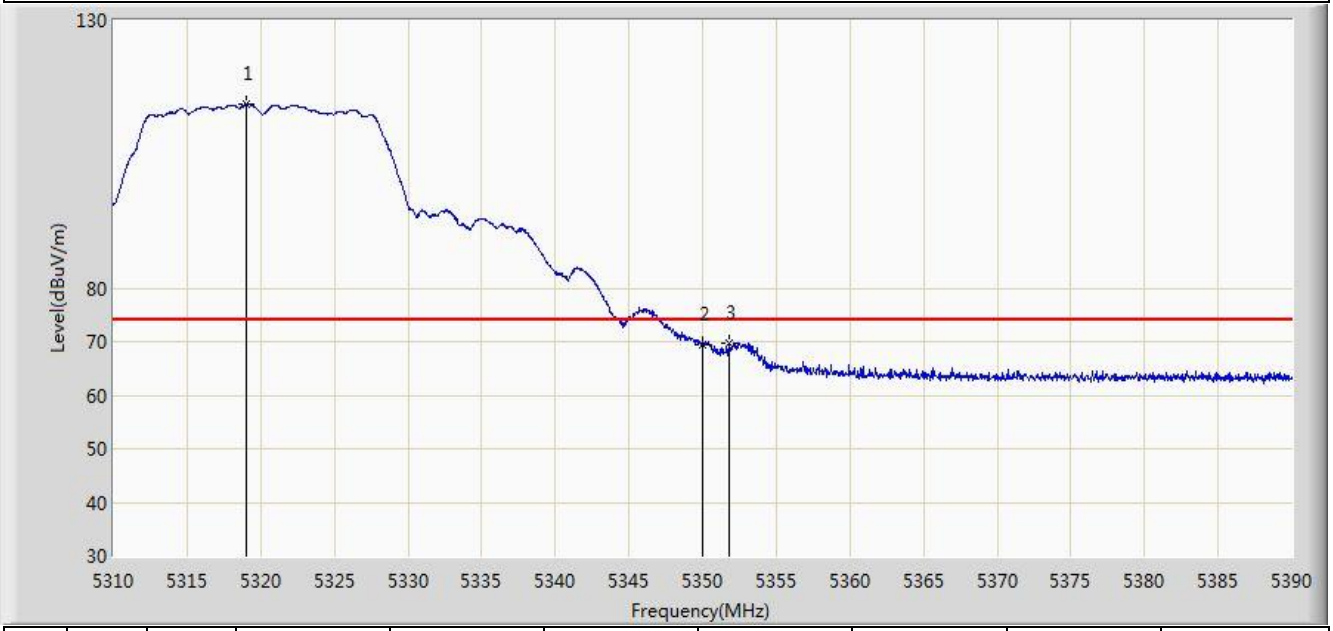


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.144	12.692	-3.856	54.000	37.452	AV
2		*	5180.515	97.576	60.203	N/A	N/A	37.372	AV

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

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

Site: AC 1	Time: 2015/08/13 - 19:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz Ant 0 + 1	

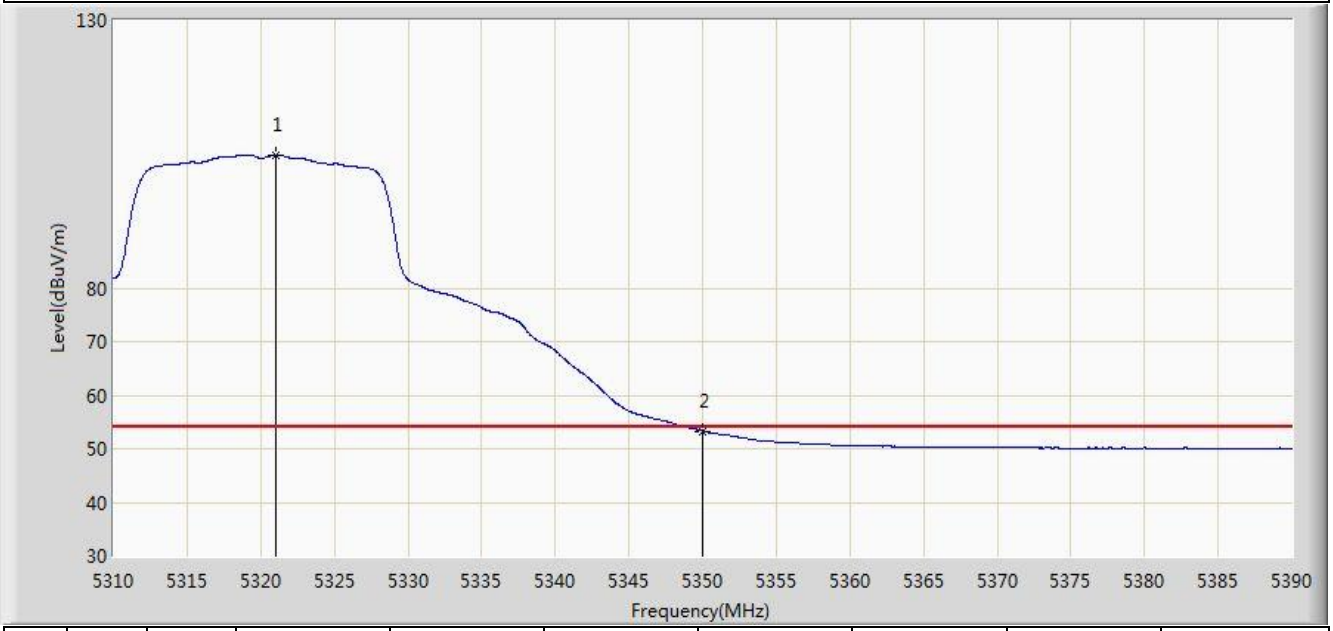


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5319.040	114.357	77.145	N/A	N/A	37.212	PK
2			5350.000	69.536	32.250	-4.464	74.000	37.286	PK
3			5351.840	69.830	32.538	-4.170	74.000	37.292	PK

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

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

Site: AC 1	Time: 2015/08/13 - 19:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz Ant 0 + 1	

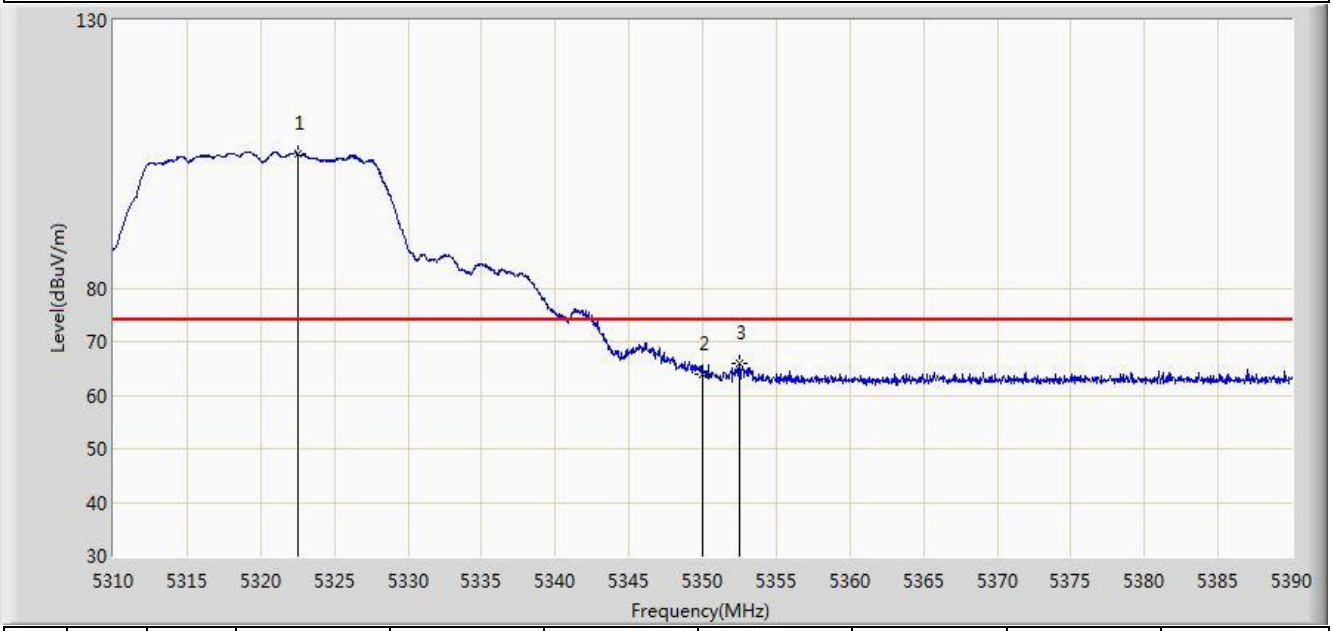


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5321.040	104.783	67.568	N/A	N/A	37.216	AV
2			5350.000	53.308	16.022	-0.692	54.000	37.286	AV

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

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

Site: AC 1	Time: 2015/08/13 - 19:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz Ant 0 + 1	

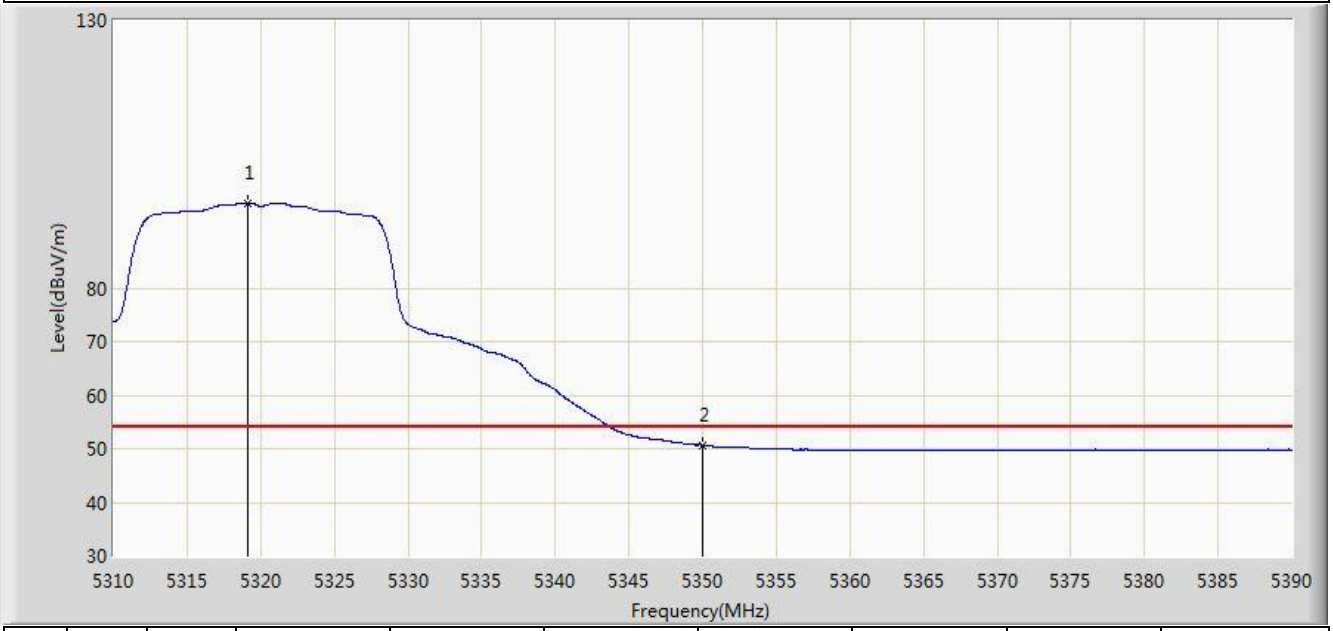


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5322.520	105.104	67.886	N/A	N/A	37.218	PK
2			5350.000	63.944	26.658	-10.056	74.000	37.286	PK
3			5352.520	65.829	28.535	-8.171	74.000	37.294	PK

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

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

Site: AC 1	Time: 2015/08/13 - 19:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz Ant 0 + 1	

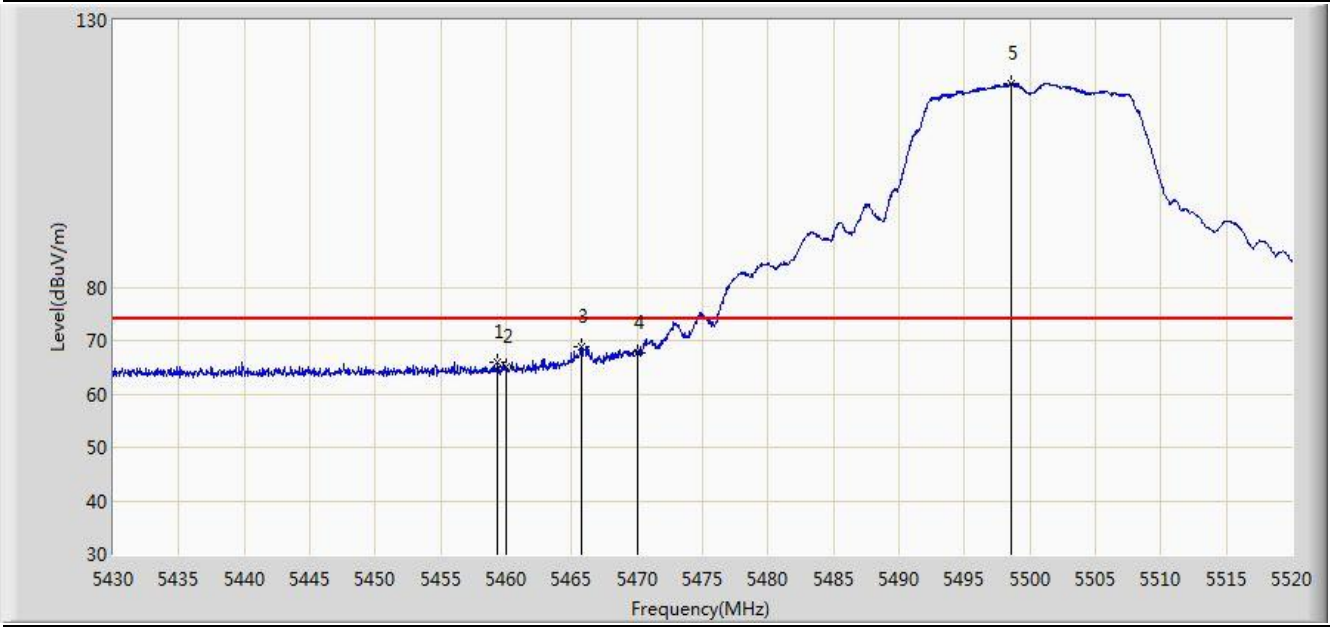


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5319.160	95.936	58.724	N/A	N/A	37.212	AV
2			5350.000	50.653	13.367	-3.347	54.000	37.286	AV

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

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

Site: AC 1	Time: 2015/07/21 - 23:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz Ant 0 + 1	

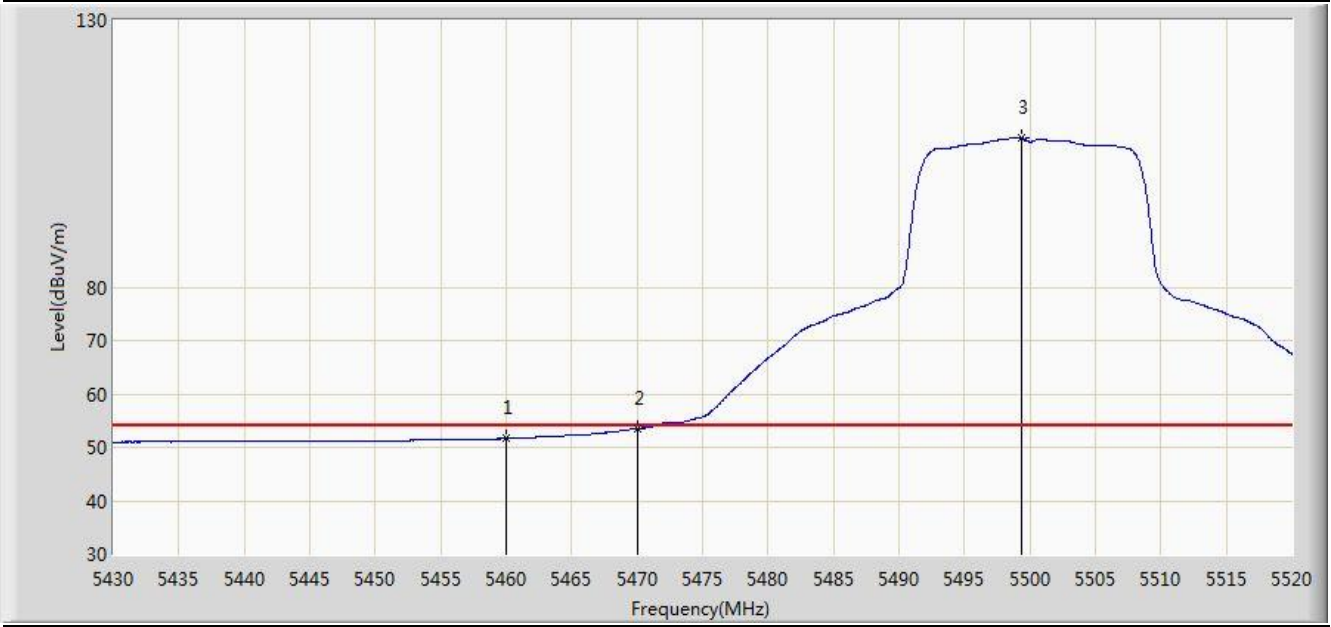


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5459.340	65.934	28.373	-8.066	74.000	37.560	PK
2			5460.000	64.930	27.367	-9.070	74.000	37.563	PK
3			5465.730	68.867	31.290	-5.133	74.000	37.578	PK
4			5470.000	67.542	29.953	-6.458	74.000	37.588	PK
5		*	5498.625	118.062	80.439	N/A	N/A	37.623	PK

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

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

Site: AC 1	Time: 2015/07/21 - 23:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz Ant 0 + 1	

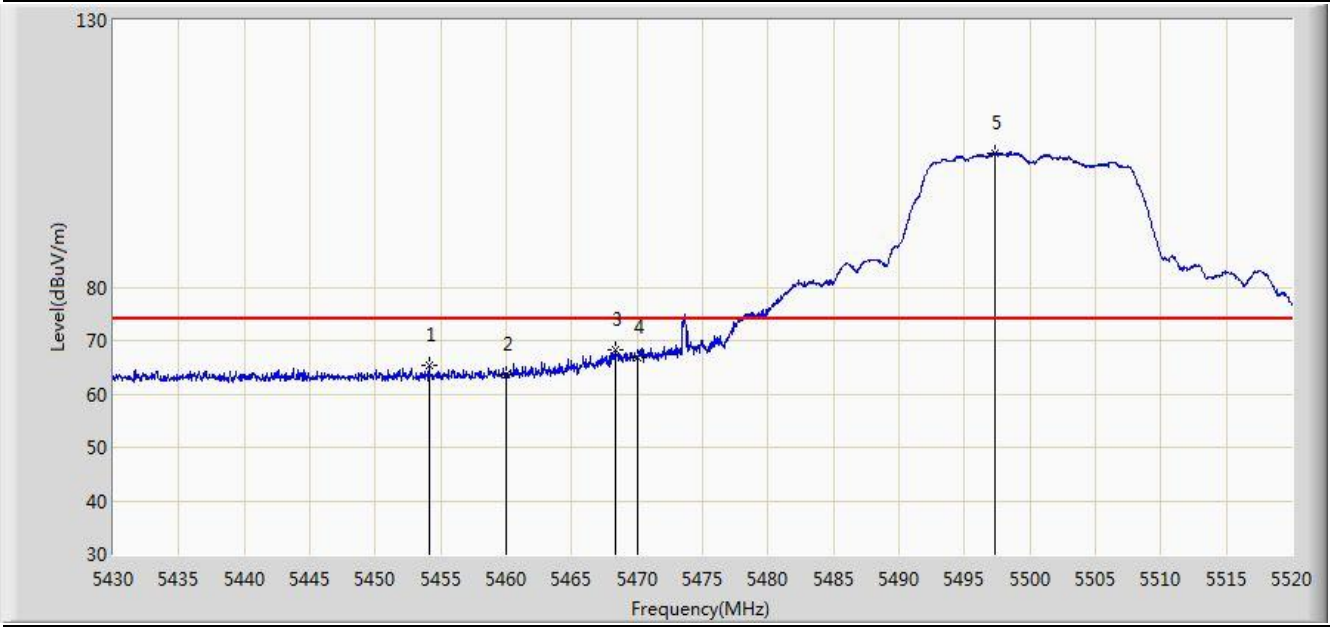


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	51.613	14.050	-2.387	54.000	37.563	AV
2			5470.000	53.527	15.938	-0.473	54.000	37.588	AV
3		*	5499.390	107.895	70.271	N/A	N/A	37.624	AV

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

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

Site: AC 1	Time: 2015/07/22 - 01:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz Ant 0 + 1	

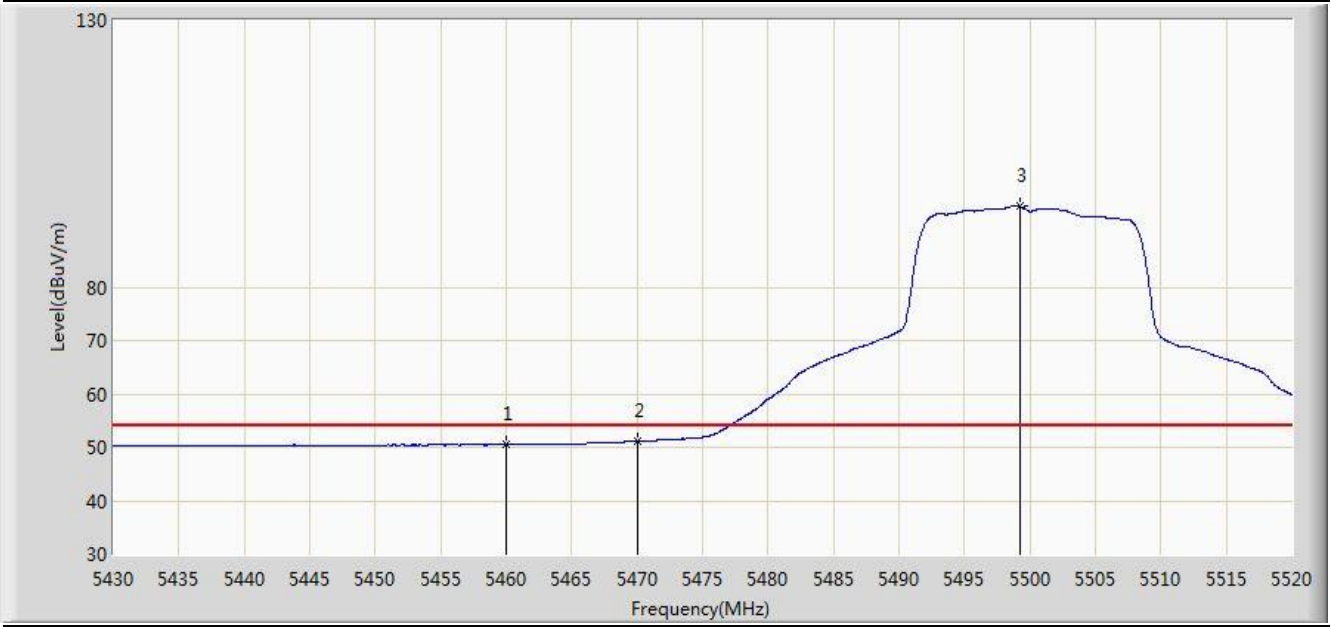


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5454.120	65.250	27.704	-8.750	74.000	37.546	PK
2			5460.000	63.560	25.997	-10.440	74.000	37.563	PK
3			5468.295	68.366	30.782	-5.634	74.000	37.584	PK
4			5470.000	66.939	29.350	-7.061	74.000	37.588	PK
5		*	5497.275	105.030	67.409	N/A	N/A	37.622	PK

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

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

Site: AC 1	Time: 2015/07/22 - 01:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz Ant 0 + 1	

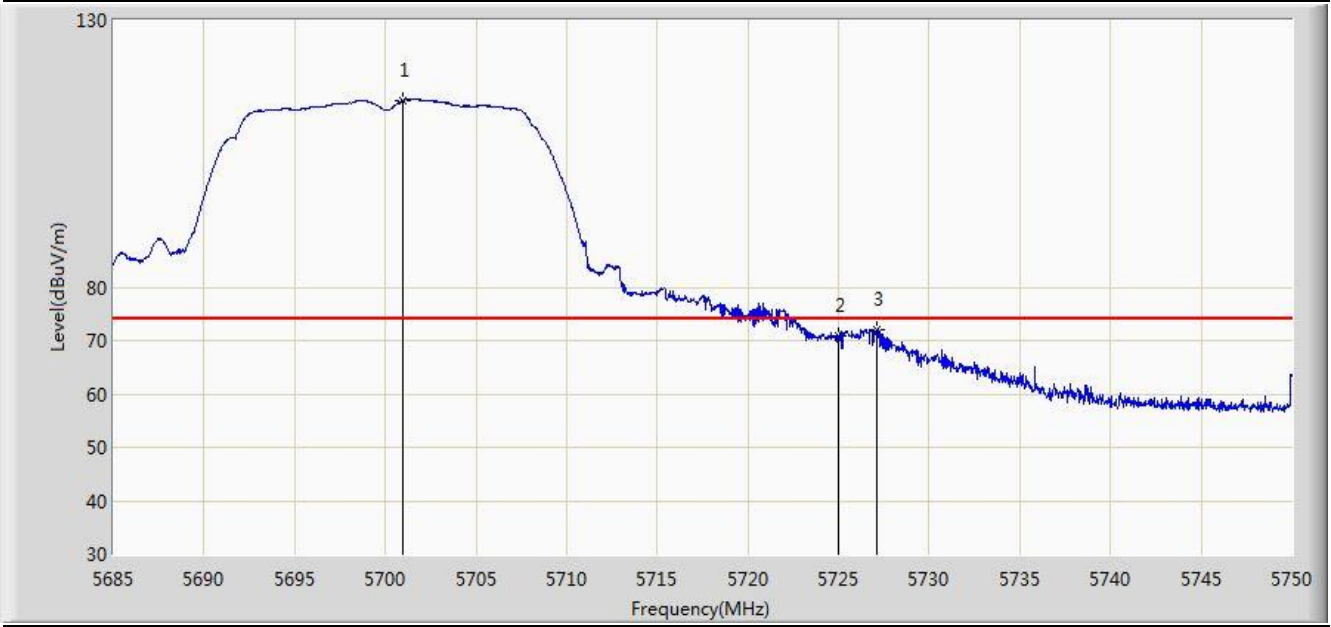


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	50.495	12.932	-3.505	54.000	37.563	AV
2			5470.000	51.142	13.553	-2.858	54.000	37.588	AV
3		*	5499.255	95.141	57.517	N/A	N/A	37.624	AV

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

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

Site: AC 1	Time: 2015/07/26 - 00:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz Ant 0 + 1	

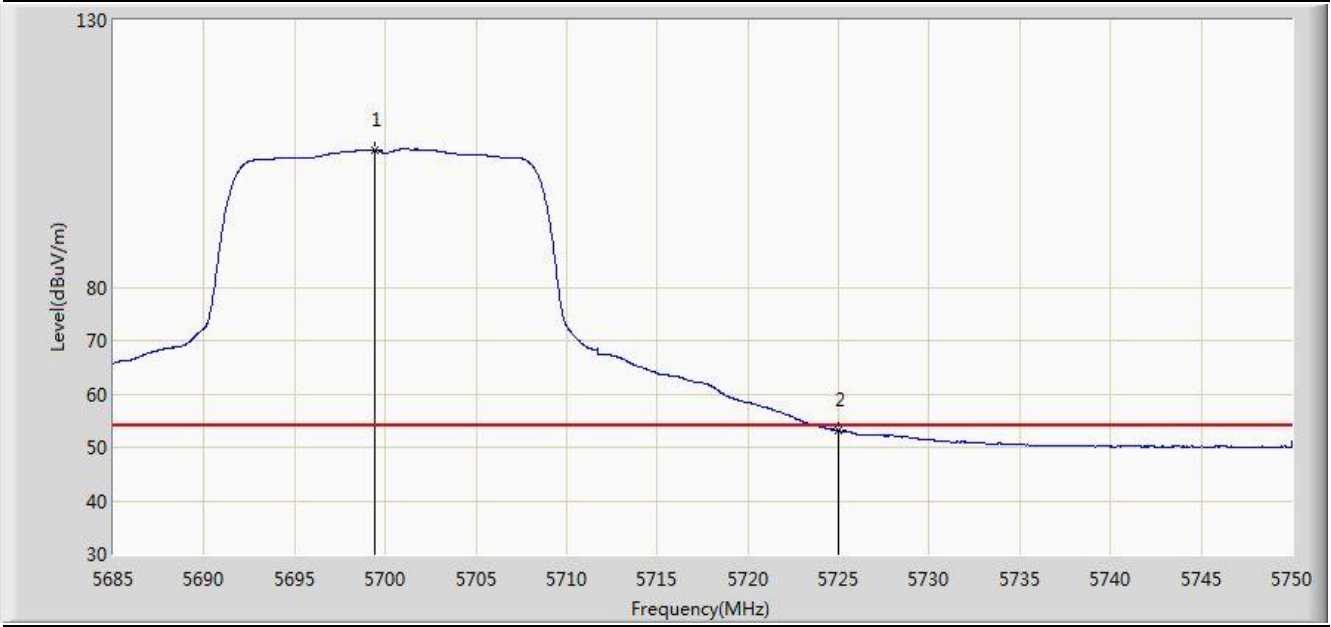


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5700.958	114.991	77.097	N/A	N/A	37.894	PK
2			5725.000	70.775	32.785	-3.225	74.000	37.990	PK
3			5727.120	72.111	34.113	-1.889	74.000	37.998	PK

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

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

Site: AC 1	Time: 2015/07/26 - 00:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz Ant 0 + 1	

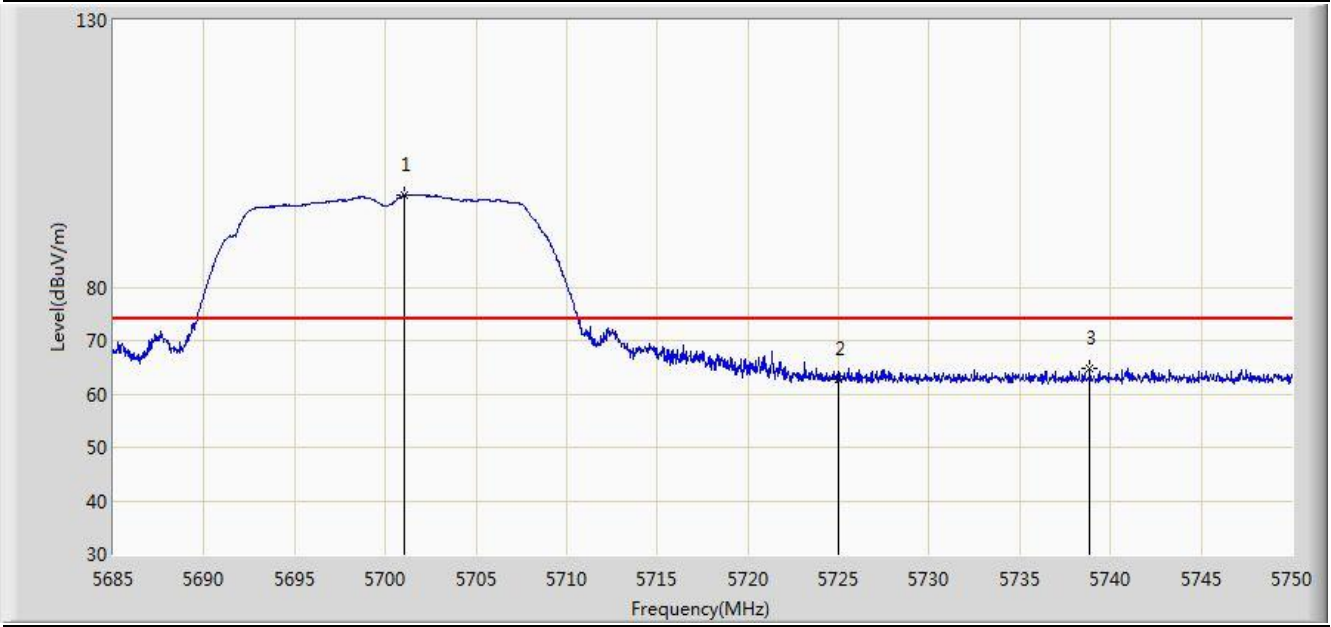


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5699.430	105.655	67.764	N/A	N/A	37.890	AV
2			5725.000	53.116	15.126	-0.884	54.000	37.990	AV

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

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

Site: AC 1	Time: 2015/07/26 - 00:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz Ant 0 + 1	

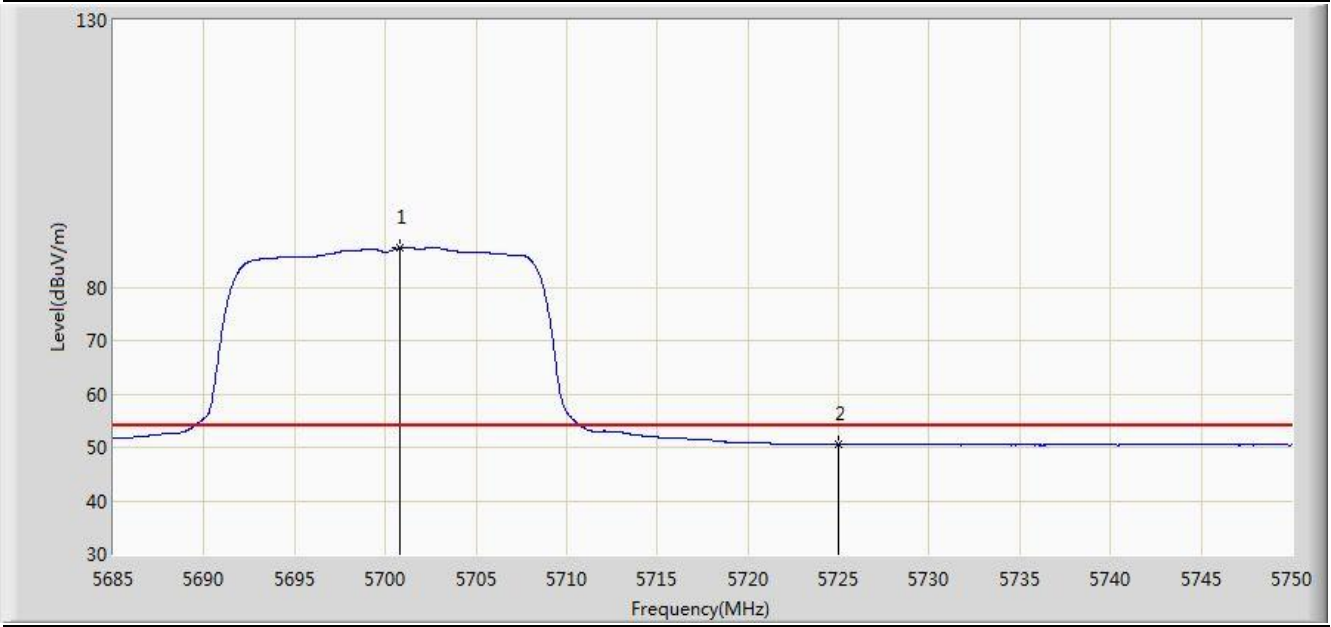


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5701.087	97.248	59.353	N/A	N/A	37.894	PK
2			5725.000	62.820	24.830	-11.180	74.000	37.990	PK
3			5738.853	64.673	26.626	-9.327	74.000	38.047	PK

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

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

Site: AC 1	Time: 2015/07/26 - 01:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz Ant 0 + 1	

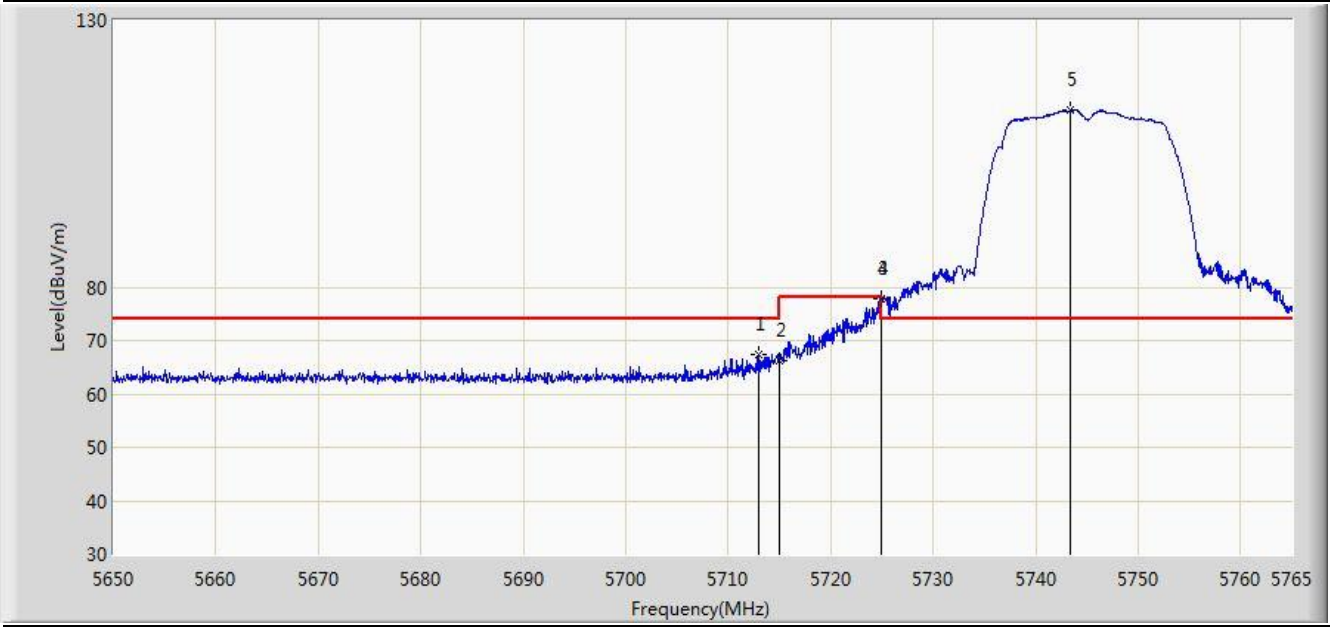


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5700.763	87.311	49.417	N/A	N/A	37.894	AV
2			5725.000	50.526	12.536	-3.474	54.000	37.990	AV

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

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

Site: AC 1	Time: 2015/07/26 - 01:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

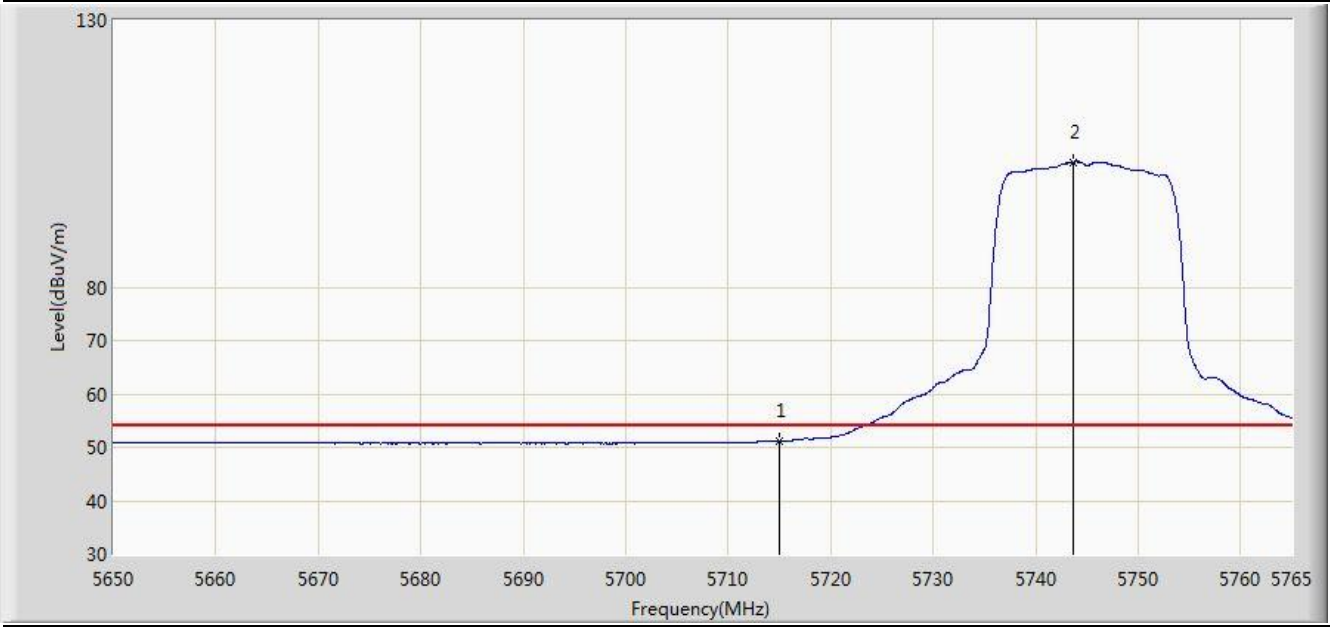


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.020	67.466	29.525	-6.534	74.000	37.941	PK
2			5715.000	66.333	28.384	-7.667	74.000	37.949	PK
3			5724.980	77.952	39.962	-0.248	78.200	37.990	PK
4			5725.000	77.736	39.746	-0.464	78.200	37.990	PK
5		*	5743.437	113.134	75.070	N/A	N/A	38.065	PK

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

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

Site: AC 1	Time: 2015/07/26 - 01:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

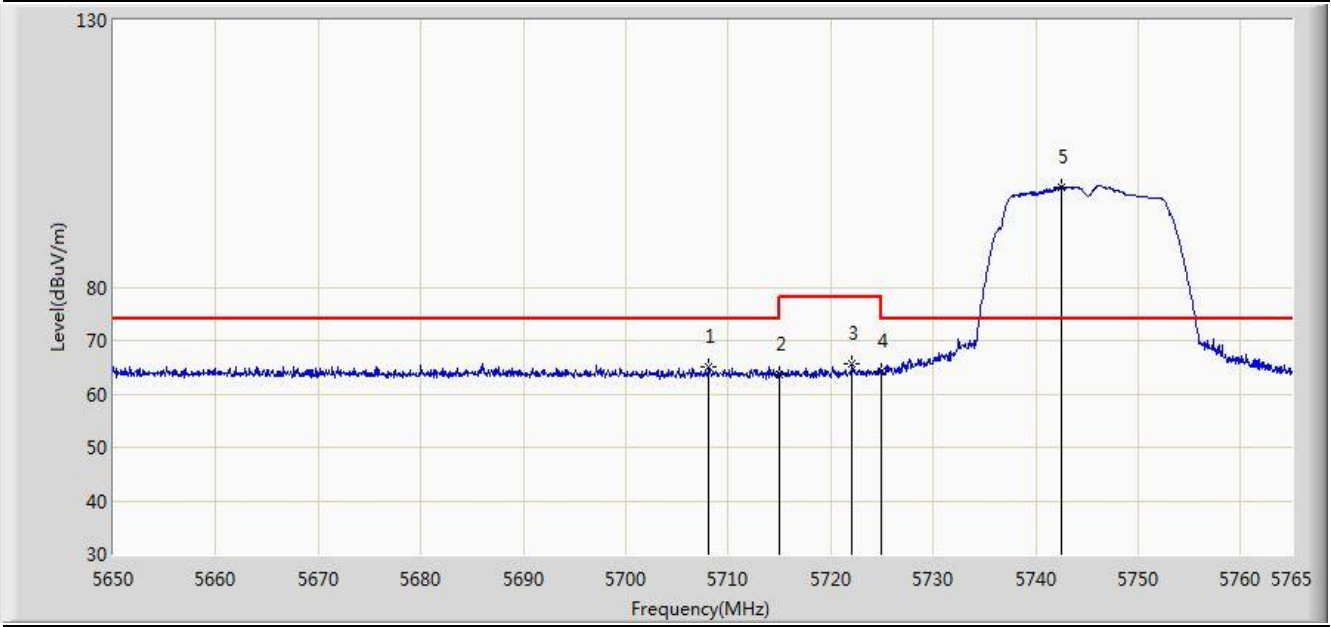


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.129	13.180	-2.871	54.000	37.949	AV
2		*	5743.725	103.453	65.387	N/A	N/A	38.066	AV

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

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

Site: AC 1	Time: 2015/07/26 - 01:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

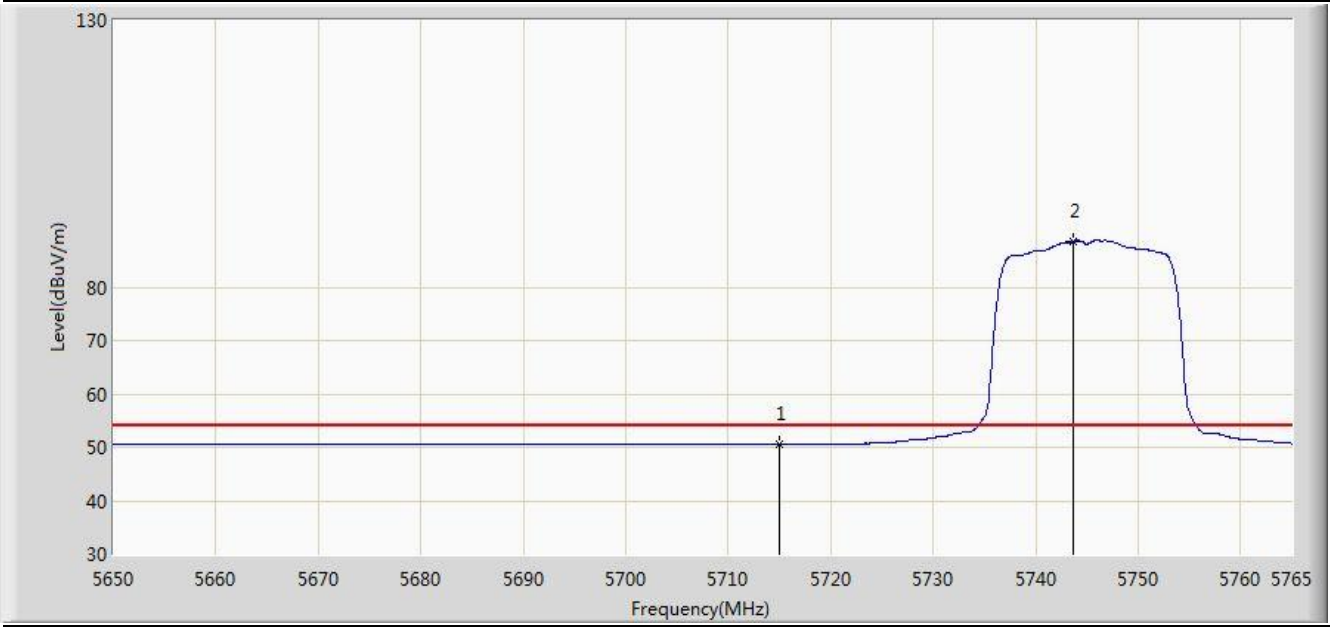


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5708.132	64.984	27.063	-9.016	74.000	37.922	PK
2			5715.000	63.601	25.652	-10.399	74.000	37.949	PK
3			5722.105	65.508	27.530	-12.692	78.200	37.978	PK
4			5725.000	64.251	26.261	-13.949	78.200	37.990	PK
5		*	5742.460	98.807	60.747	N/A	N/A	38.060	PK

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

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

Site: AC 1	Time: 2015/07/26 - 01:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

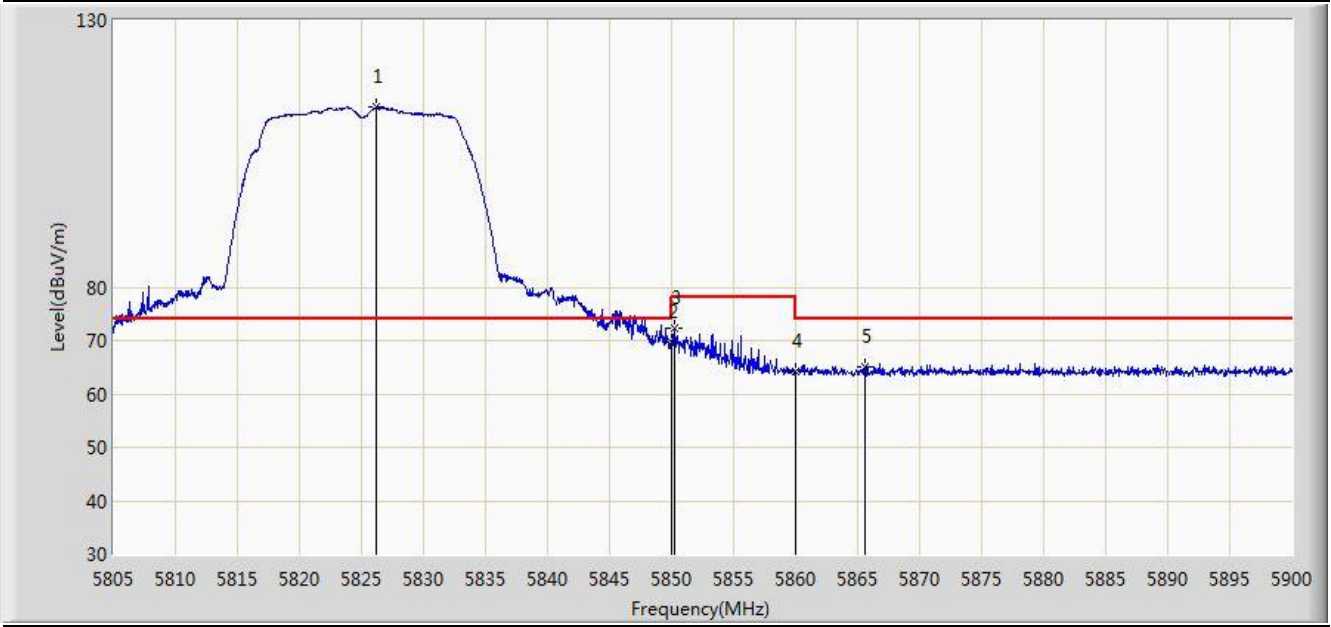


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	50.535	12.586	-3.465	54.000	37.949	AV
2		*	5743.667	88.557	50.492	N/A	N/A	38.065	AV

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

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

Site: AC 1	Time: 2015/07/22 - 02:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 0 + 1	

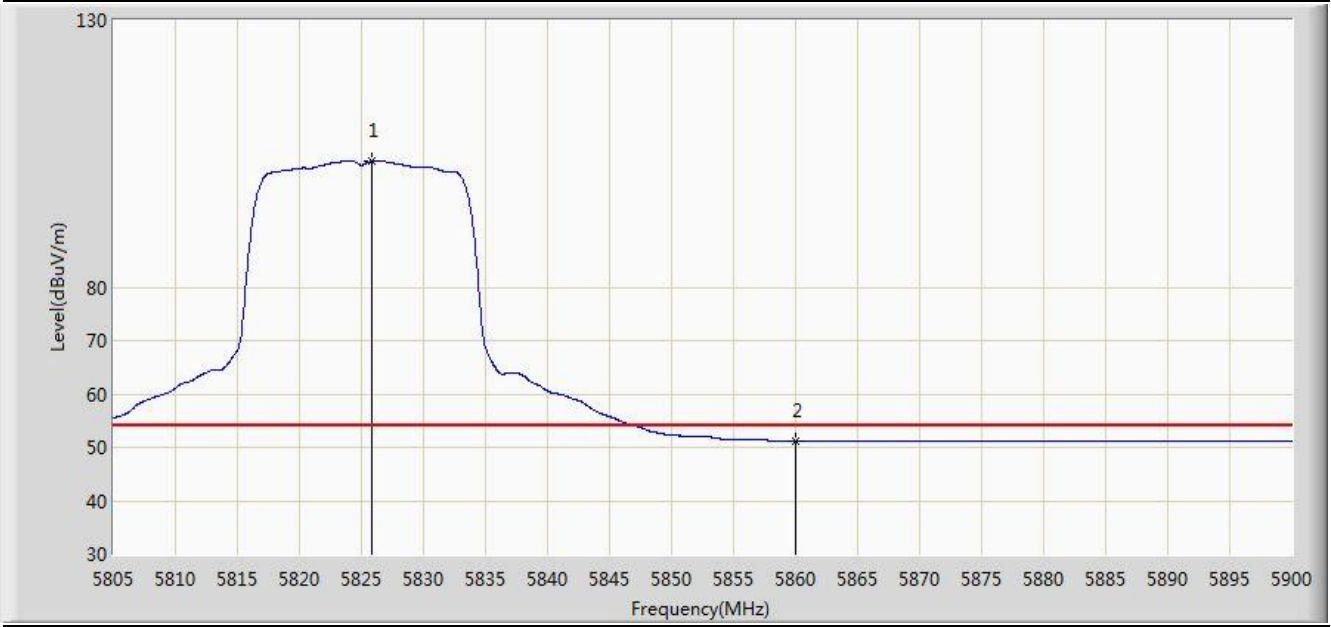


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5826.232	113.700	75.339	N/A	N/A	38.361	PK
2			5850.000	69.627	31.174	-8.573	78.200	38.454	PK
3			5850.220	72.284	33.830	-5.916	78.200	38.454	PK
4			5860.000	64.120	25.642	-9.880	74.000	38.478	PK
5			5865.562	64.942	26.455	-9.058	74.000	38.486	PK

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

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

Site: AC 1	Time: 2015/07/22 - 02:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 0 + 1	

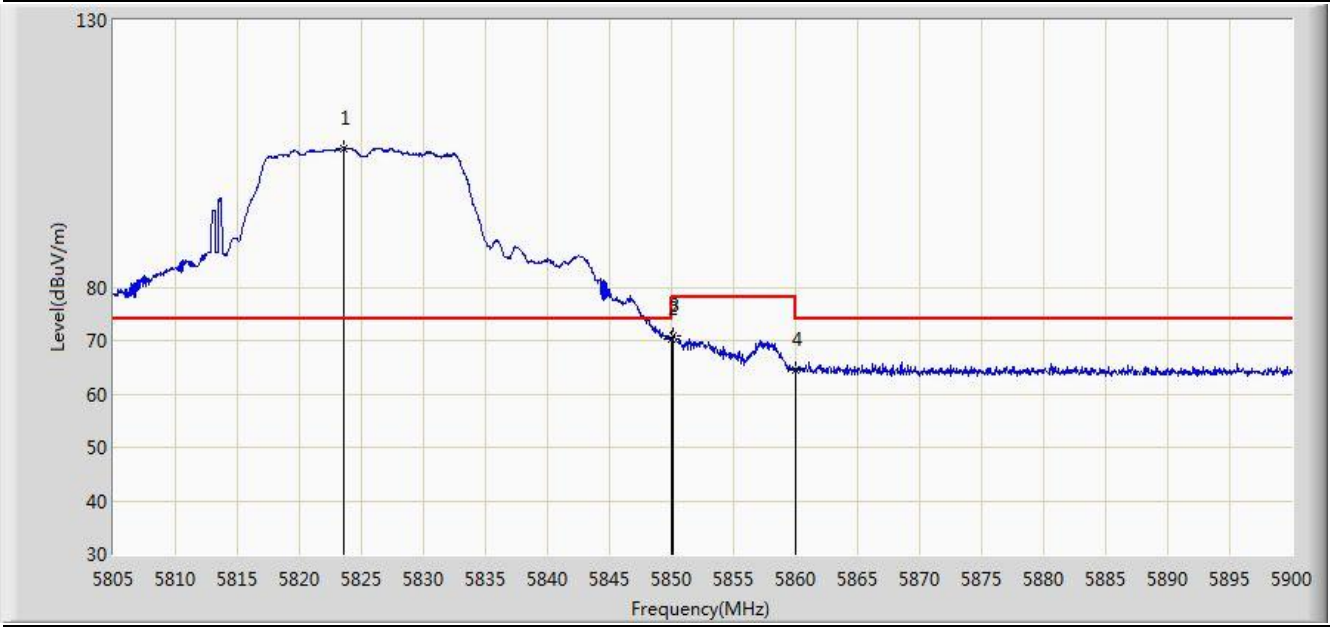


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5825.805	103.548	65.189	N/A	N/A	38.359	AV
2			5860.000	51.206	12.728	-2.794	54.000	38.478	AV

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

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

Site: AC 1	Time: 2015/07/22 - 02:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 0 + 1	

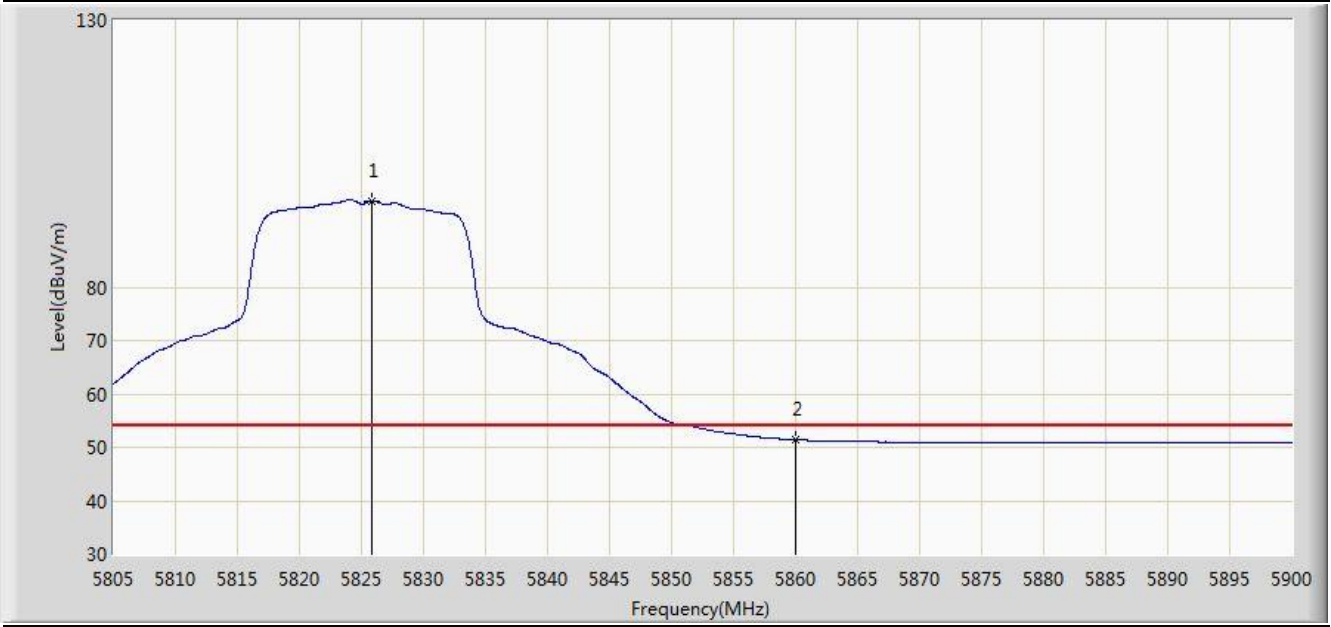


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5823.572	106.048	67.698	N/A	N/A	38.350	PK
2			5850.000	70.204	31.751	-7.996	78.200	38.454	PK
3			5850.125	70.845	32.392	-7.355	78.200	38.454	PK
4			5860.000	64.385	25.907	-9.615	74.000	38.478	PK

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

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

Site: AC 1	Time: 2015/07/22 - 03:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 0 + 1	

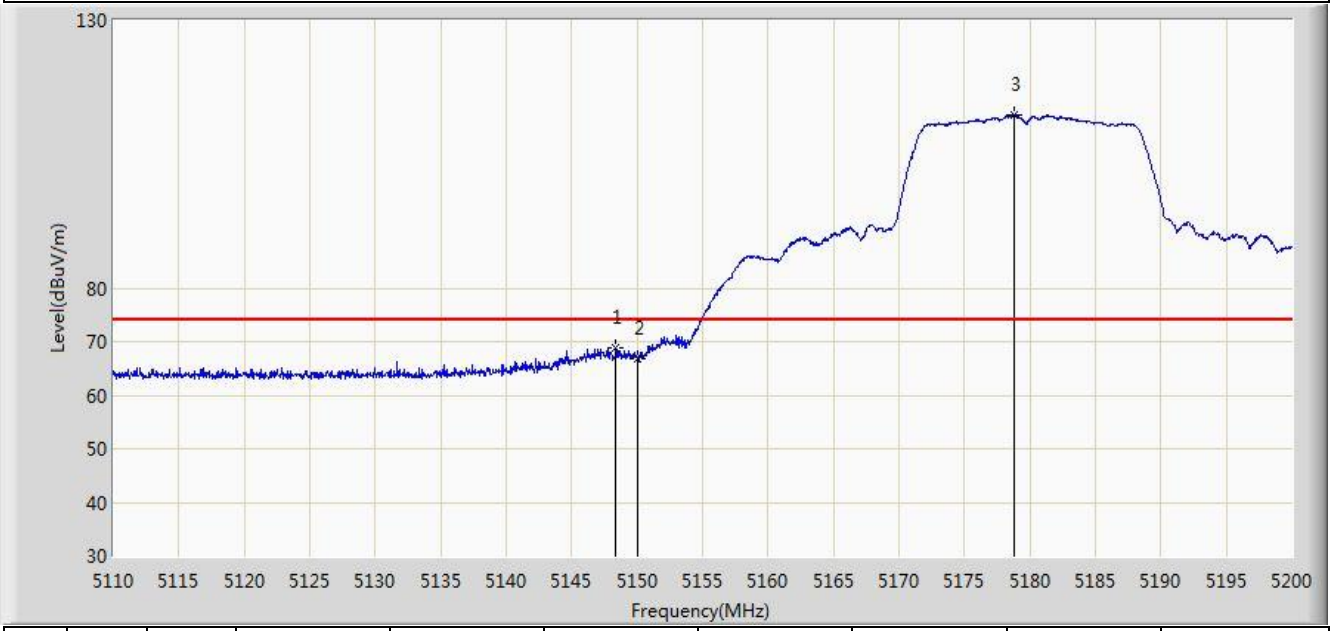


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5825.805	96.074	57.715	N/A	N/A	38.359	AV
2			5860.000	51.383	12.905	-2.617	54.000	38.478	AV

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

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

Site: AC 1	Time: 2015/08/13 - 19:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 0 + 1	

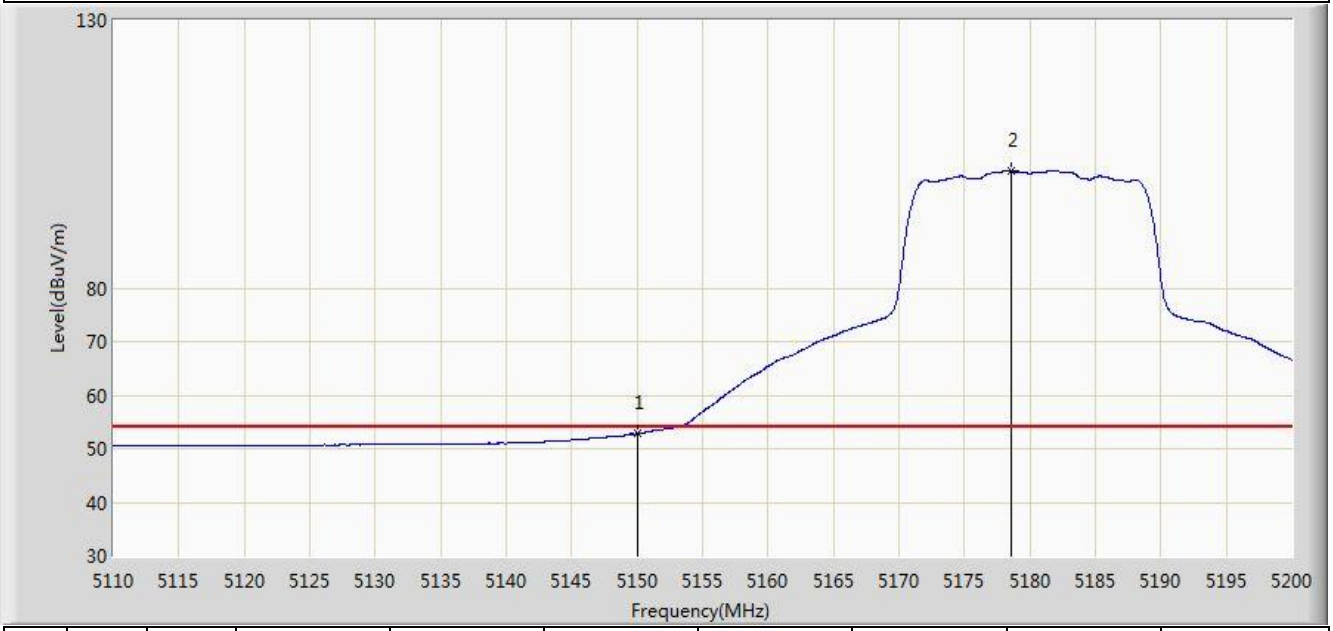


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.340	68.767	31.313	-5.233	74.000	37.454	PK
2			5150.000	66.851	29.399	-7.149	74.000	37.452	PK
3		*	5178.805	112.365	74.989	N/A	N/A	37.376	PK

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

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

Site: AC 1	Time: 2015/08/13 - 19:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 0 + 1	

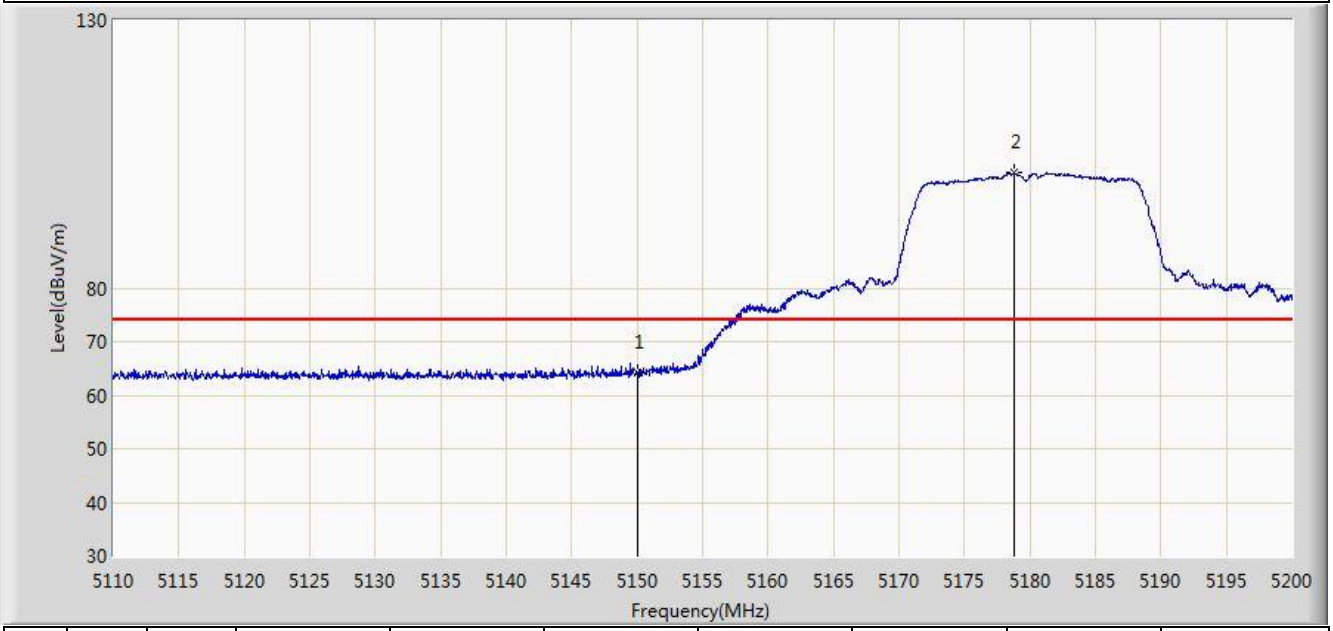


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.783	15.331	-1.217	54.000	37.452	AV
2		*	5178.535	101.882	64.505	N/A	N/A	37.377	AV

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

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

Site: AC 1	Time: 2015/08/13 - 19:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 0 + 1	

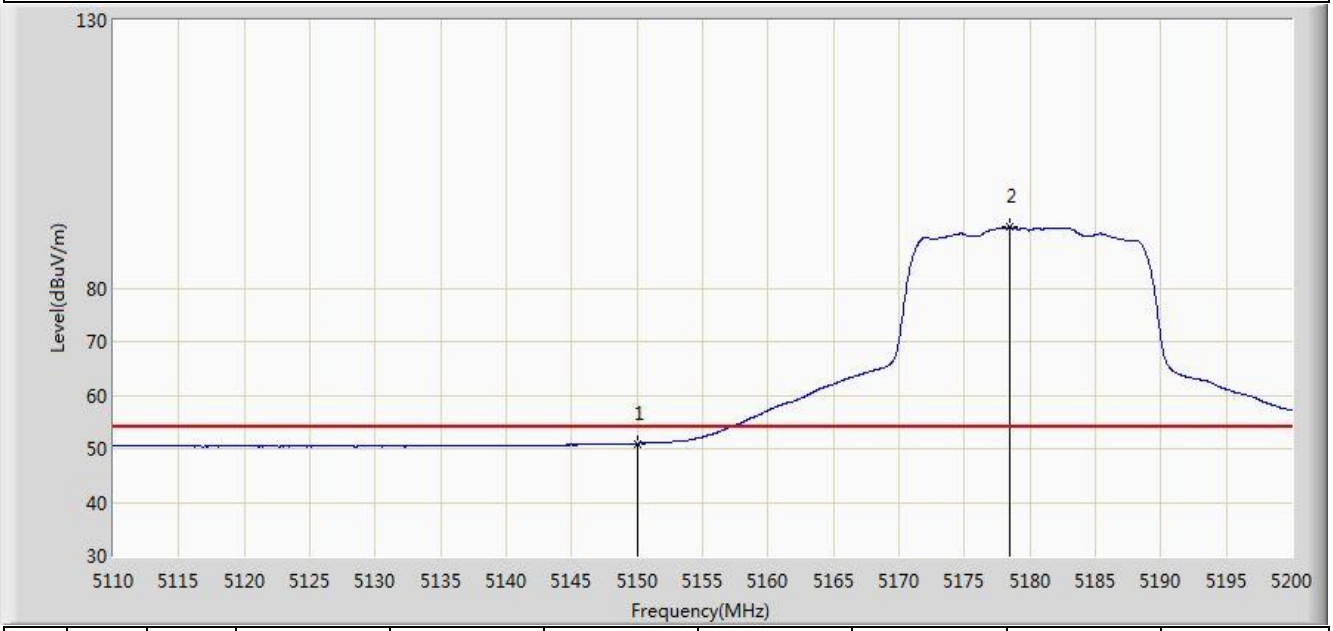


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	64.313	26.861	-9.687	74.000	37.452	PK
2		*	5178.805	101.513	64.137	N/A	N/A	37.376	PK

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

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

Site: AC 1	Time: 2015/08/13 - 19:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 0 + 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.976	13.524	-3.024	54.000	37.452	AV
2		*	5178.490	91.337	53.960	N/A	N/A	37.377	AV

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

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

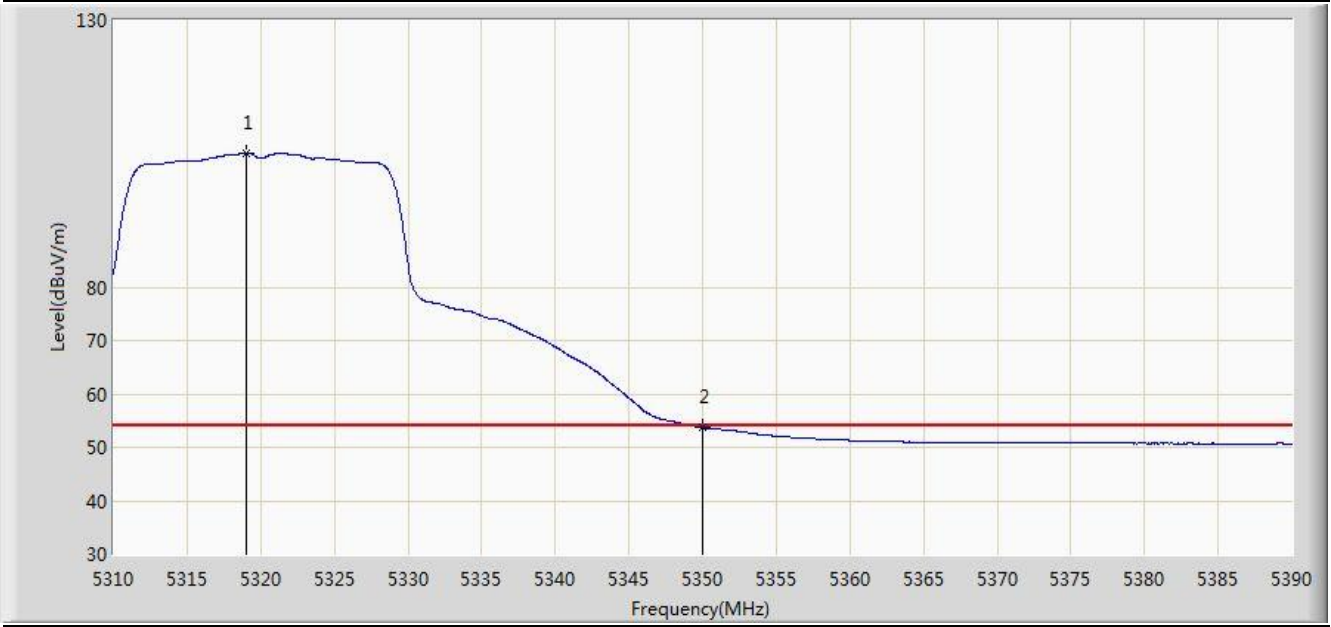
Site: AC 1	Time: 2015/07/22 - 03:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz Ant 0 + 1	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5318.240	115.986	78.775	N/A	N/A	37.211	PK
2			5350.000	69.245	31.959	-4.755	74.000	37.286	PK
3			5350.480	71.115	33.827	-2.885	74.000	37.288	PK

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

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

Site: AC 1	Time: 2015/07/22 - 03:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz Ant 0 + 1	

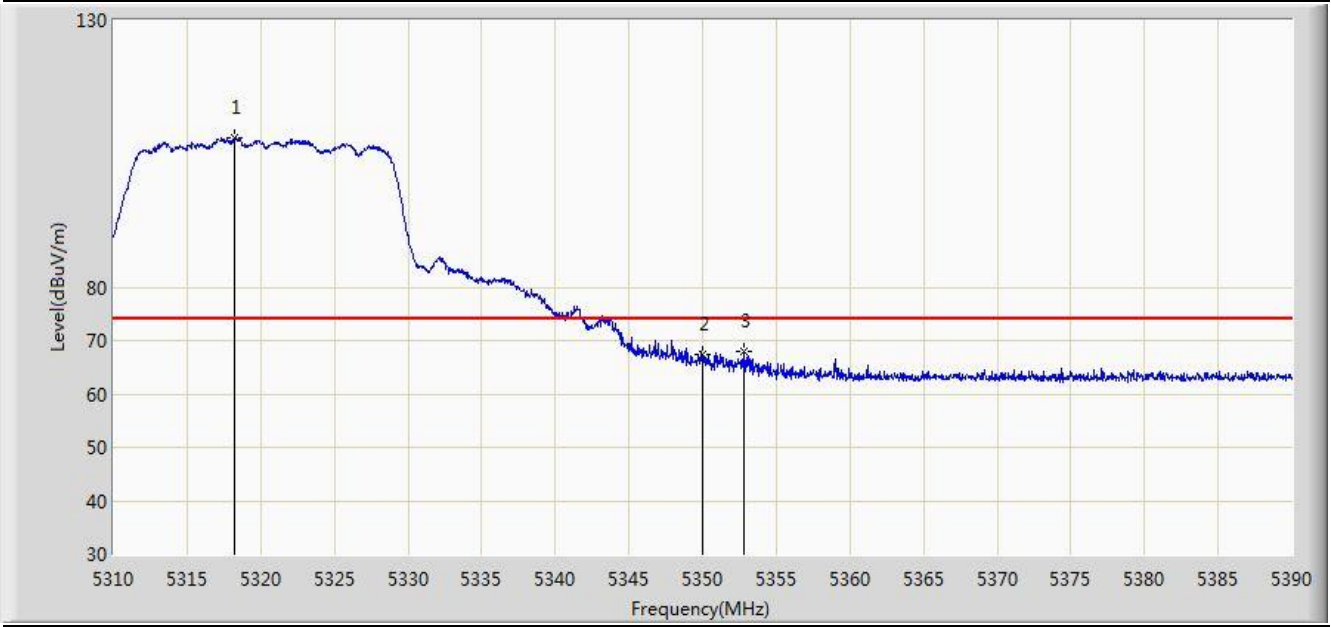


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5319.040	105.139	67.927	N/A	N/A	37.212	AV
2			5350.000	53.692	16.406	-0.308	54.000	37.286	AV

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

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

Site: AC 1	Time: 2015/07/22 - 03:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz Ant 0 + 1	

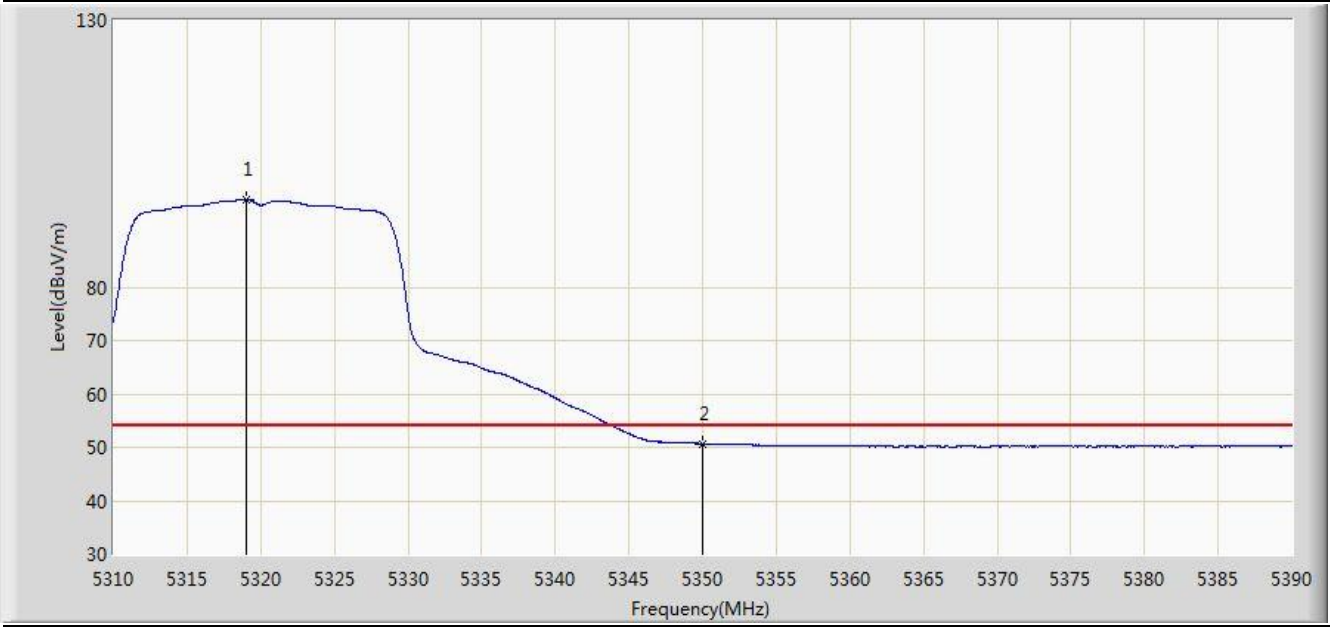


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5318.200	107.928	70.718	N/A	N/A	37.210	PK
2			5350.000	67.248	29.962	-6.752	74.000	37.286	PK
3			5352.840	67.944	30.649	-6.056	74.000	37.295	PK

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

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

Site: AC 1	Time: 2015/07/22 - 03:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz Ant 0 + 1	

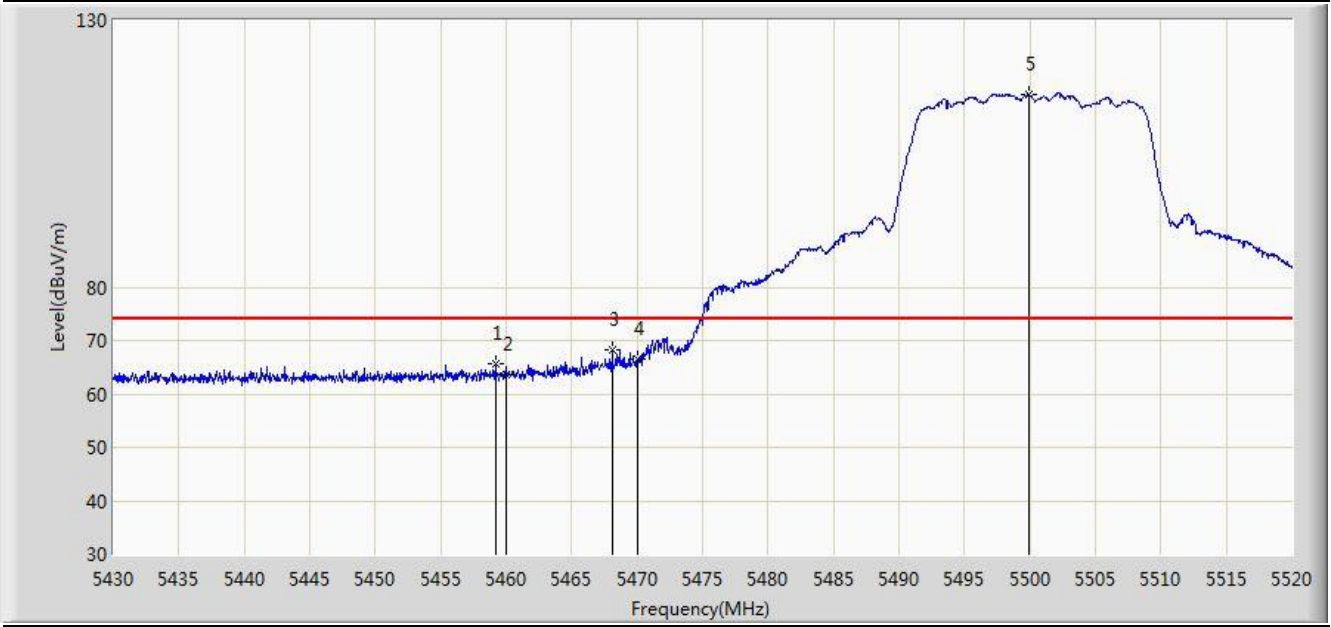


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5319.040	96.430	59.218	N/A	N/A	37.212	AV
2			5350.000	50.703	13.417	-3.297	54.000	37.286	AV

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

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

Site: AC 1	Time: 2015/07/22 - 03:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz Ant 0 + 1	

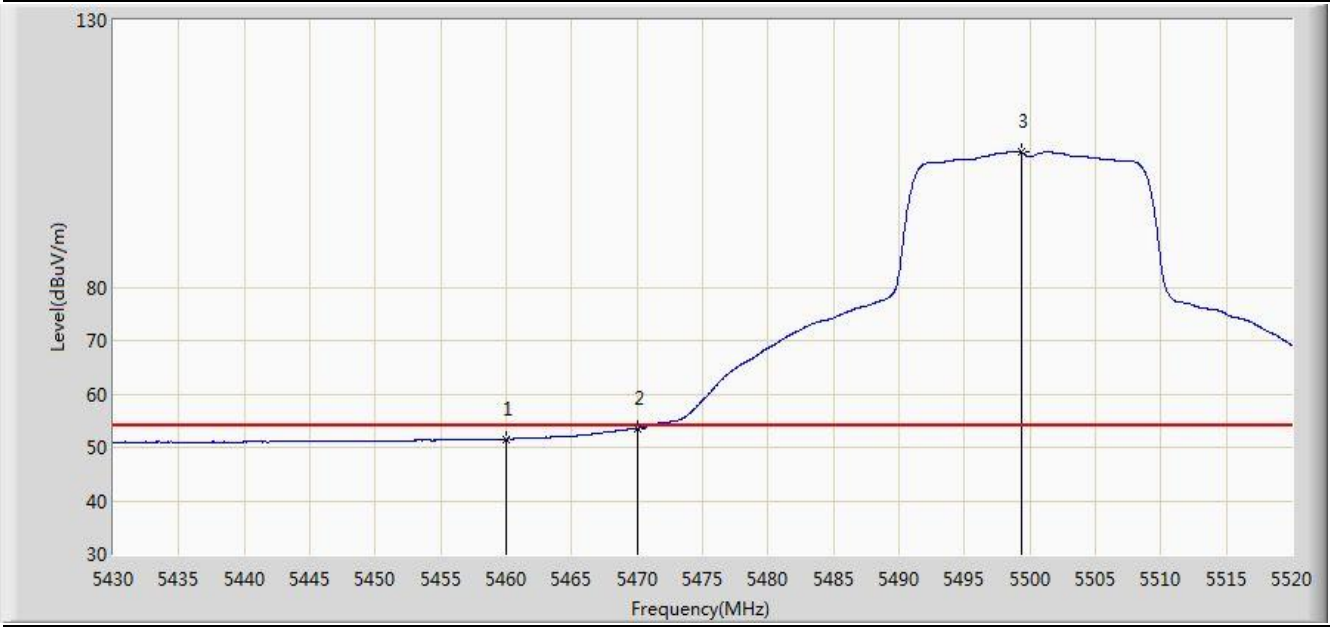


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5459.160	65.683	28.123	-8.317	74.000	37.560	PK
2			5460.000	63.690	26.127	-10.310	74.000	37.563	PK
3			5468.115	68.157	30.573	-5.843	74.000	37.583	PK
4			5470.000	66.388	28.799	-7.612	74.000	37.588	PK
5		*	5499.975	115.960	78.336	N/A	N/A	37.625	PK

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

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

Site: AC 1	Time: 2015/07/22 - 03:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz Ant 0 + 1	

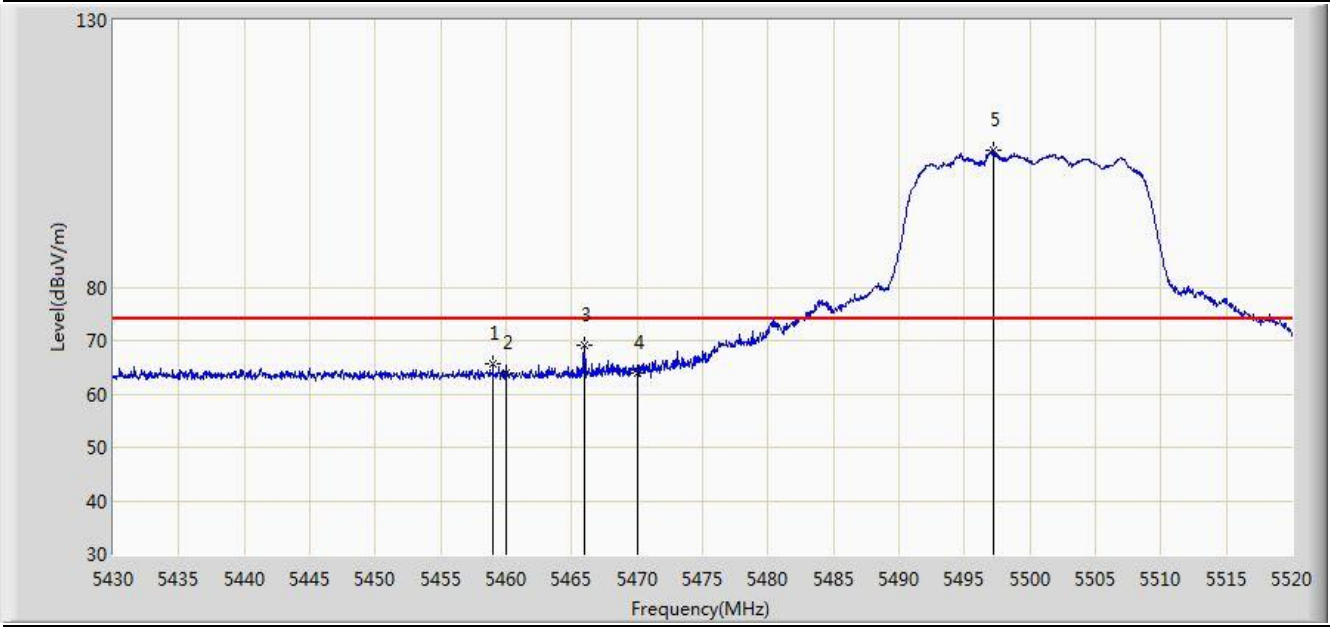


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	51.583	14.020	-2.417	54.000	37.563	AV
2			5470.000	53.579	15.990	-0.421	54.000	37.588	AV
3		*	5499.390	105.233	67.609	N/A	N/A	37.624	AV

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

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

Site: AC 1	Time: 2015/07/22 - 03:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz Ant 0 + 1	

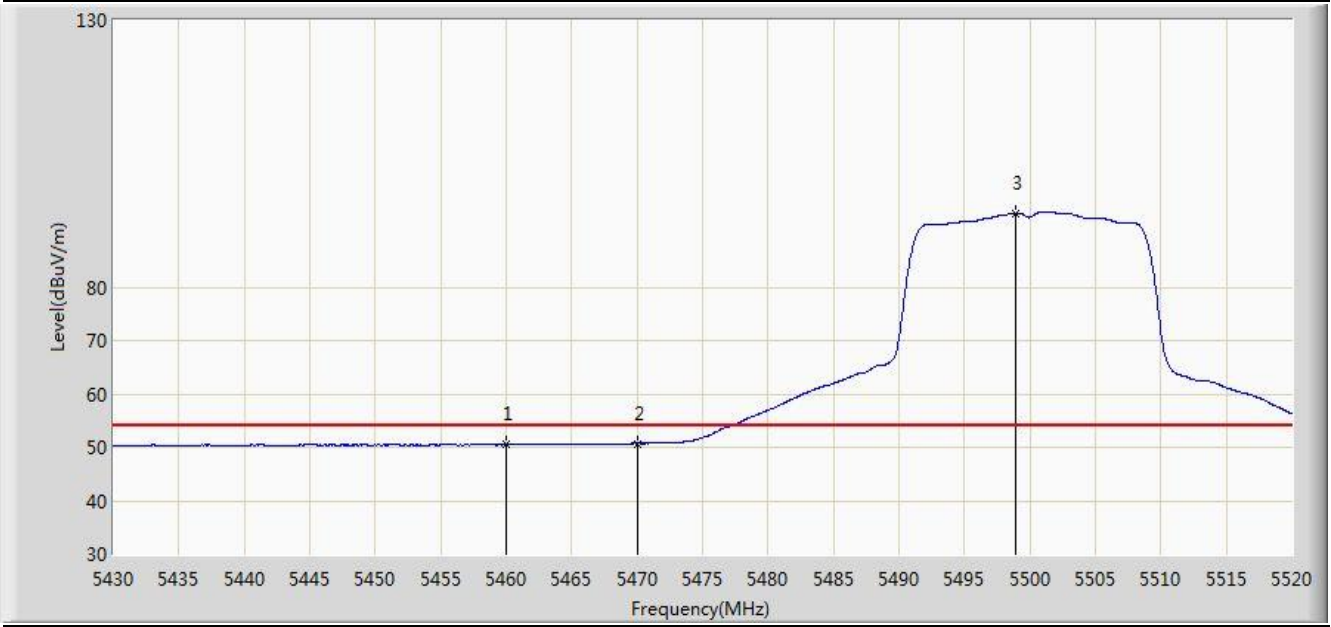


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5458.980	65.599	28.039	-8.401	74.000	37.560	PK
2			5460.000	64.031	26.468	-9.969	74.000	37.563	PK
3			5466.000	69.126	31.548	-4.874	74.000	37.578	PK
4			5470.000	63.907	26.318	-10.093	74.000	37.588	PK
5		*	5497.230	105.546	67.925	N/A	N/A	37.622	PK

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

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

Site: AC 1	Time: 2015/07/22 - 03:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz Ant 0 + 1	

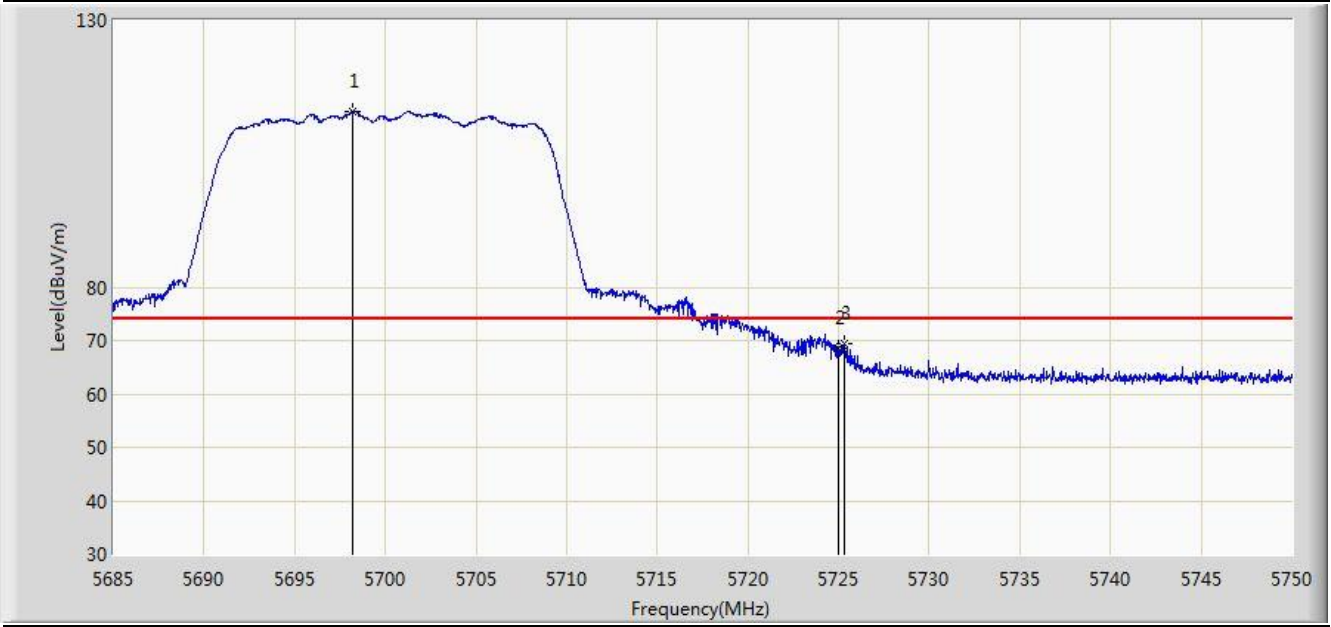


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	50.472	12.909	-3.528	54.000	37.563	AV
2			5470.000	50.707	13.118	-3.293	54.000	37.588	AV
3		*	5498.940	93.898	56.275	N/A	N/A	37.624	AV

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

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

Site: AC 1	Time: 2015/07/22 - 04:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5700MHz Ant 0 + 1	

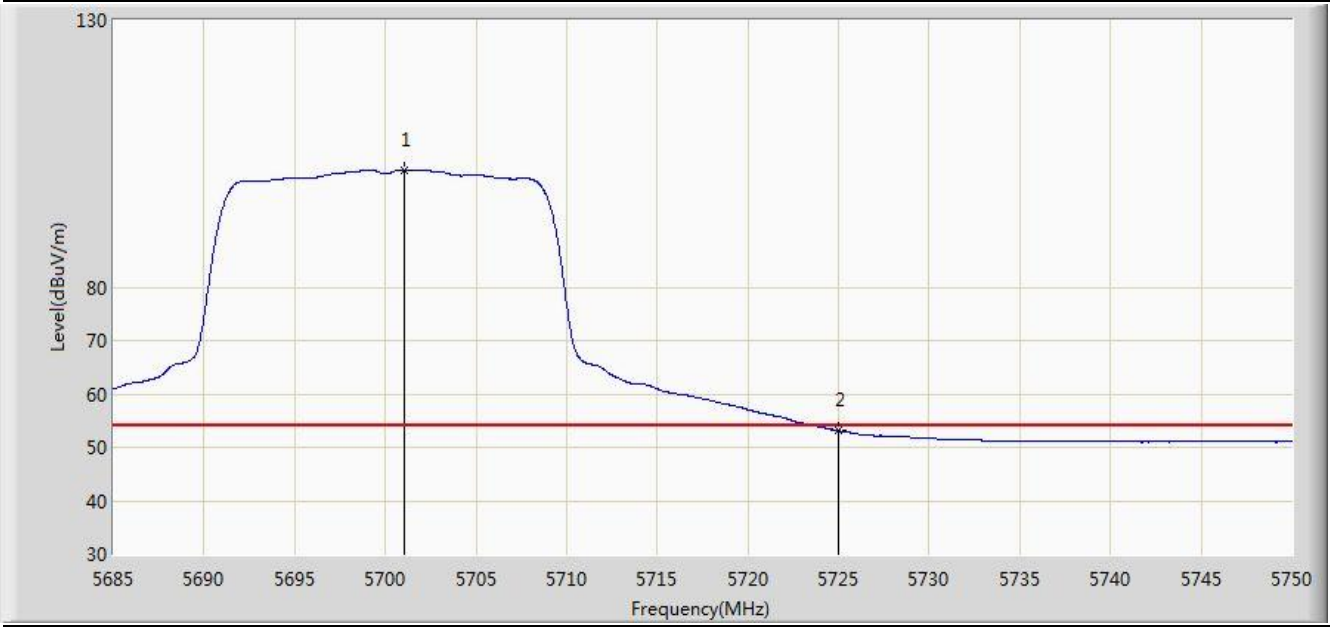


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5698.195	112.952	75.064	N/A	N/A	37.888	PK
2			5725.000	68.663	30.673	-5.337	74.000	37.990	PK
3			5725.333	69.371	31.380	-4.629	74.000	37.991	PK

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

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

Site: AC 1	Time: 2015/07/22 - 04:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5700MHz Ant 0 + 1	

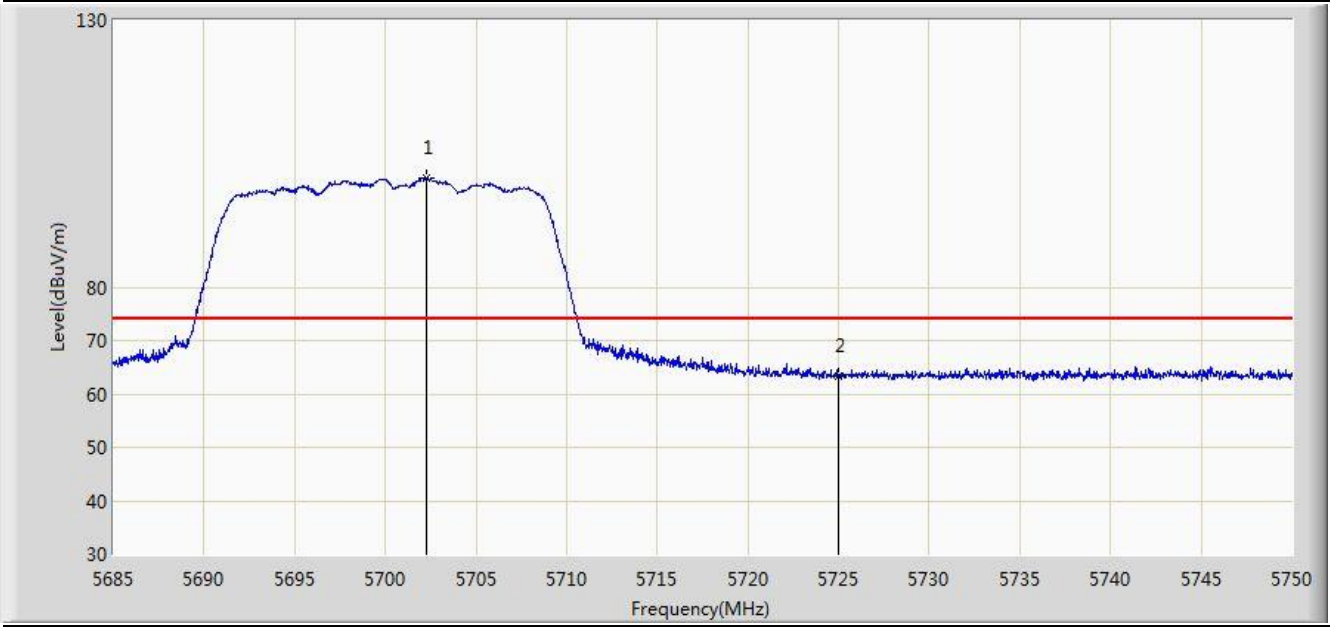


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5701.055	101.966	64.071	N/A	N/A	37.894	AV
2			5725.000	53.130	15.140	-0.870	54.000	37.990	AV

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

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

Site: AC 1	Time: 2015/07/22 - 04:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5700MHz Ant 0 + 1	

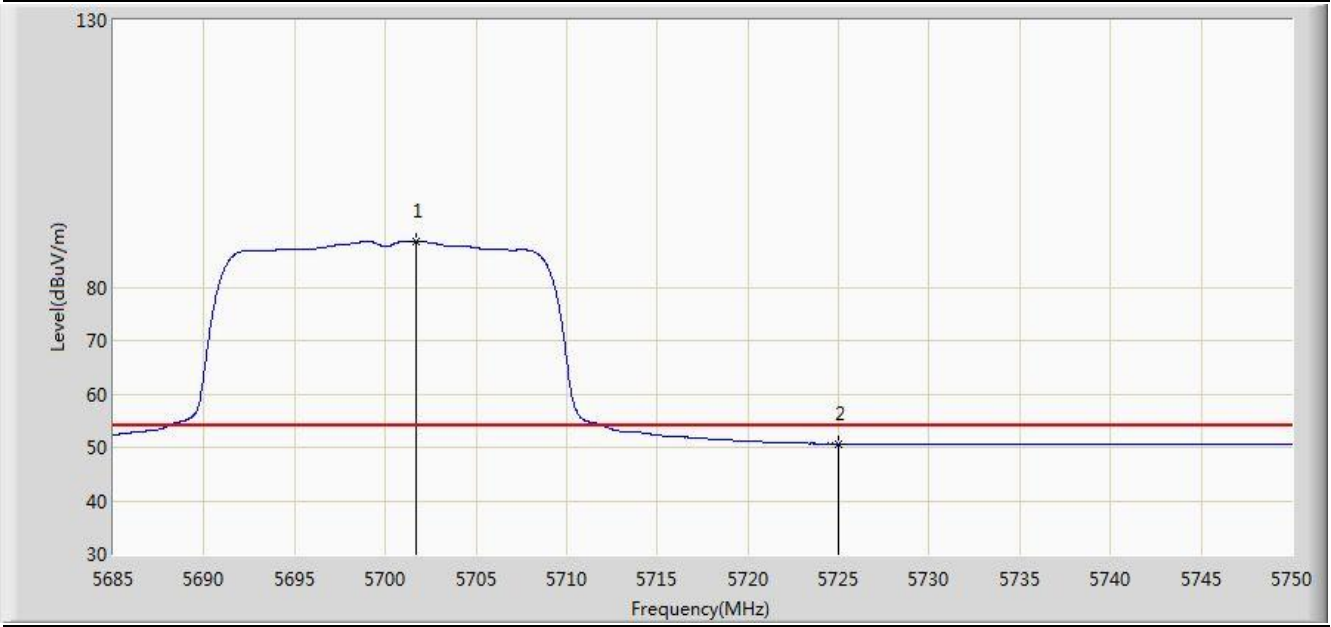


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5702.257	100.532	62.634	N/A	N/A	37.898	PK
2			5725.000	63.358	25.368	-10.642	74.000	37.990	PK

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

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

Site: AC 1	Time: 2015/07/22 - 04:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5700MHz Ant 0 + 1	

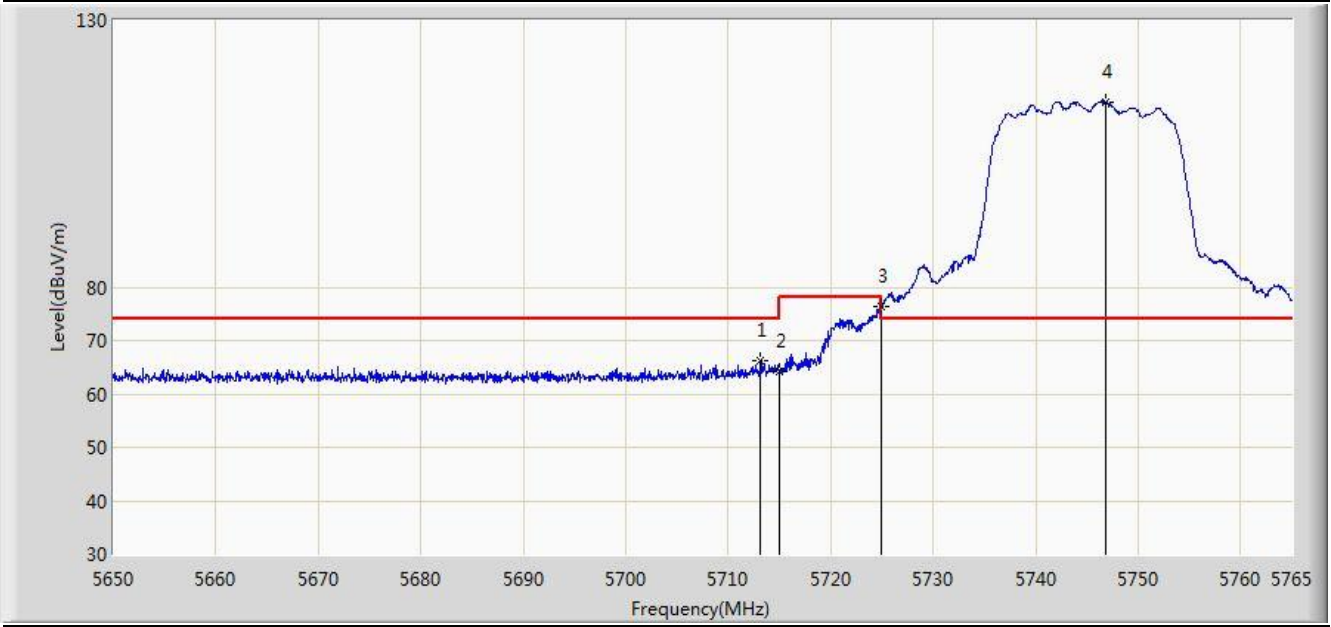


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5701.737	88.566	50.670	N/A	N/A	37.897	AV
2			5725.000	50.662	12.672	-3.338	54.000	37.990	AV

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

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

Site: AC 1	Time: 2015/07/26 - 01:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 0 + 1	

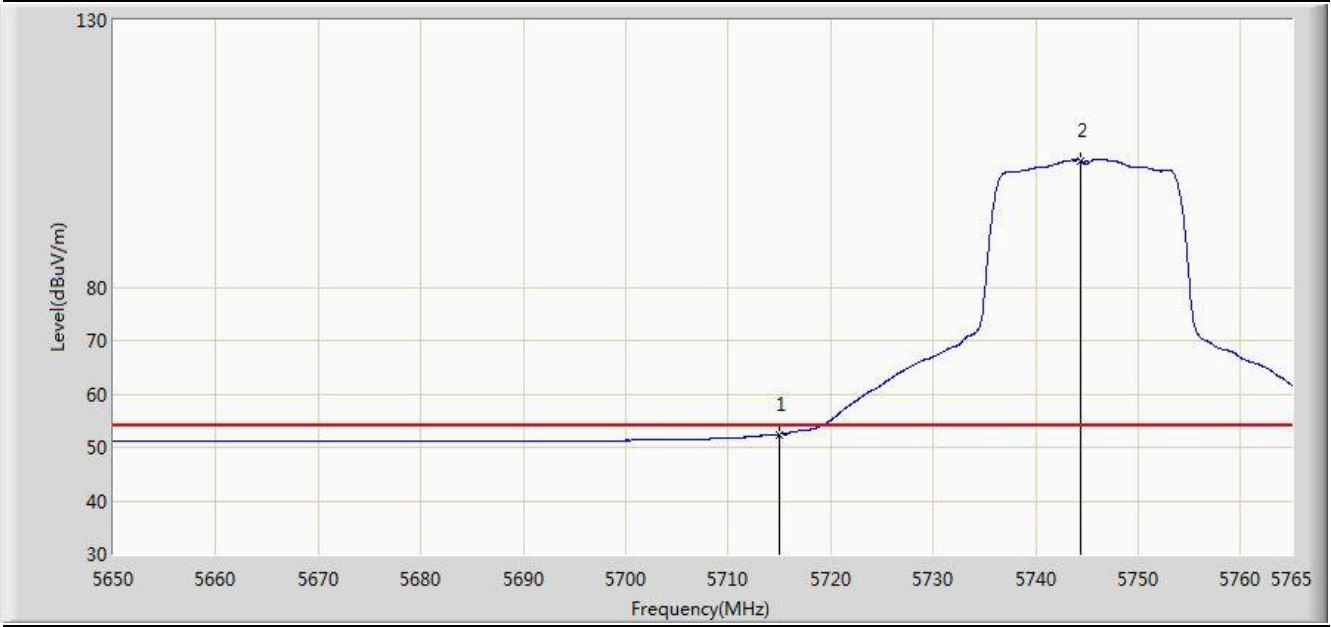


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.192	66.356	28.414	-7.644	74.000	37.942	PK
2			5715.000	64.154	26.205	-9.846	74.000	37.949	PK
3			5725.000	76.349	38.359	-1.851	78.200	37.990	PK
4		*	5746.888	114.634	76.553	N/A	N/A	38.081	PK

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

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

Site: AC 1	Time: 2015/07/26 - 01:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Gateway	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 0 + 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	52.455	14.506	-1.545	54.000	37.949	AV
2		*	5744.357	103.763	65.694	N/A	N/A	38.069	AV

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

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