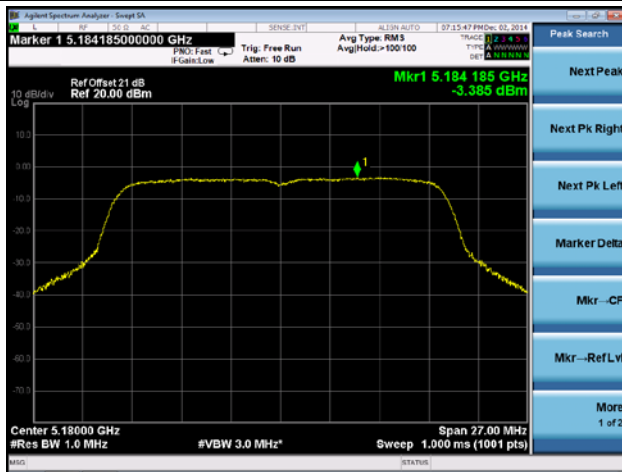
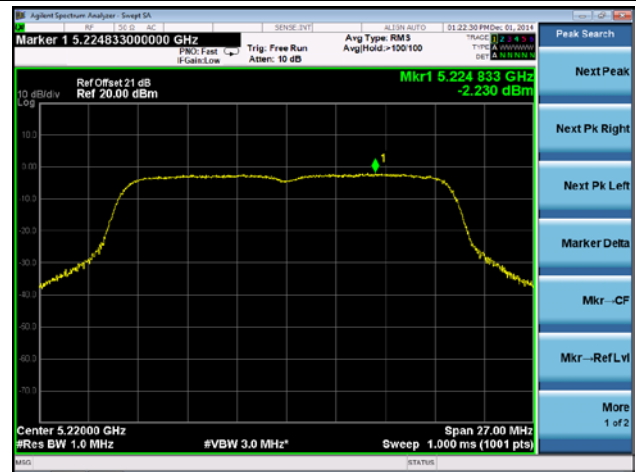


802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1

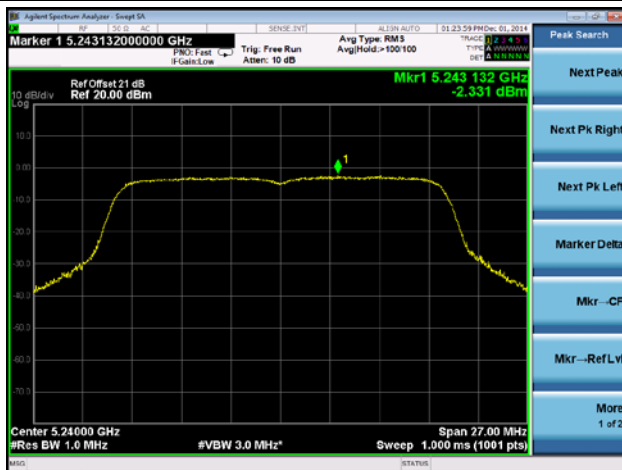
Channel 36 (5180MHz)



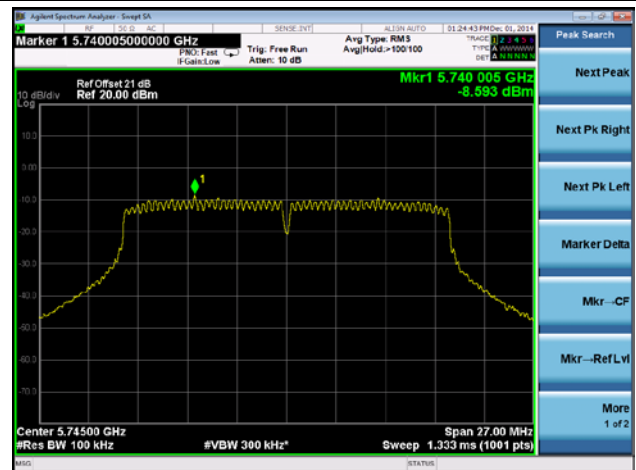
Channel 44 (5220MHz)



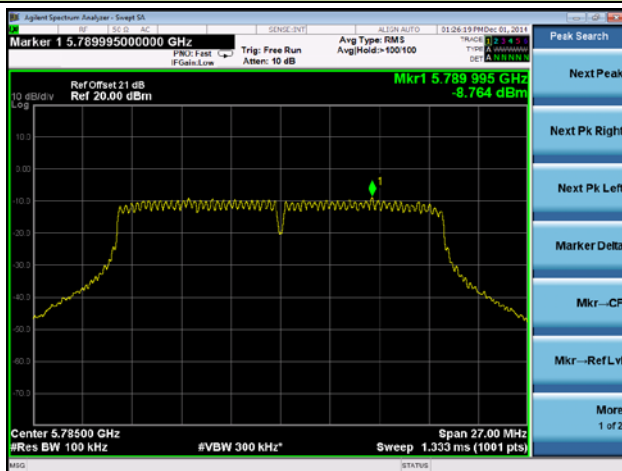
Channel 48 (5240MHz)



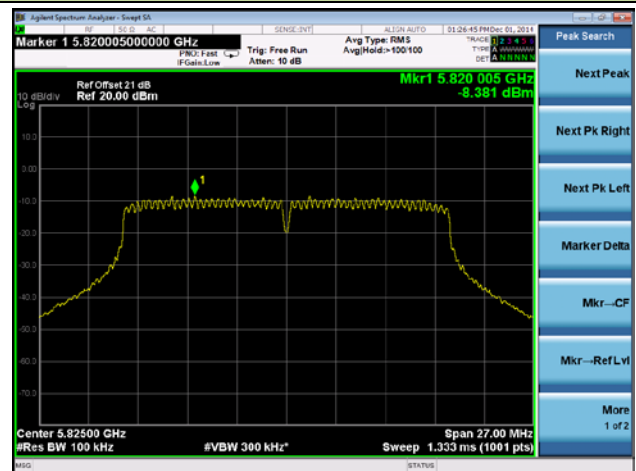
Channel 149 (5745MHz)



Channel 157 (5785MHz)

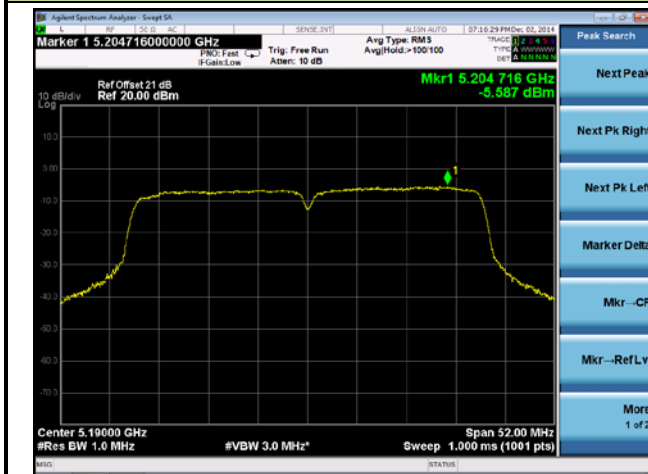


Channel 165 (5825MHz)

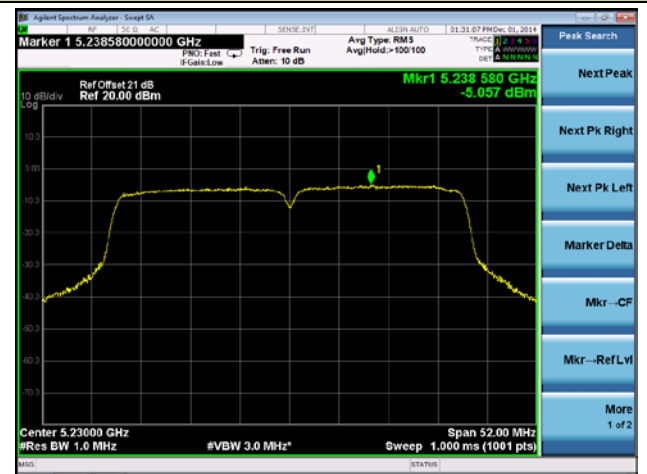


802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1

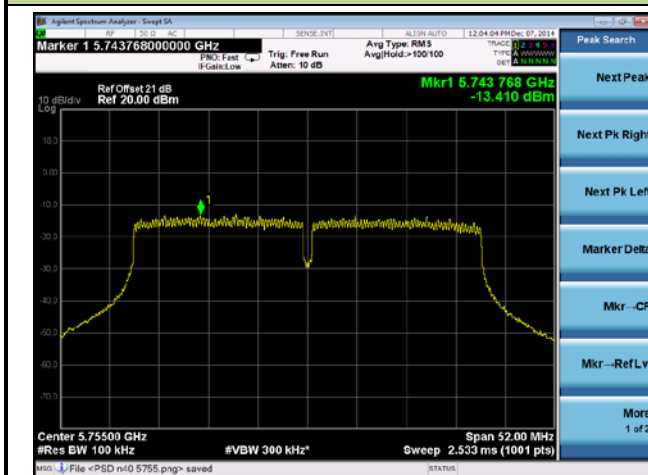
Channel 38 (5190MHz)



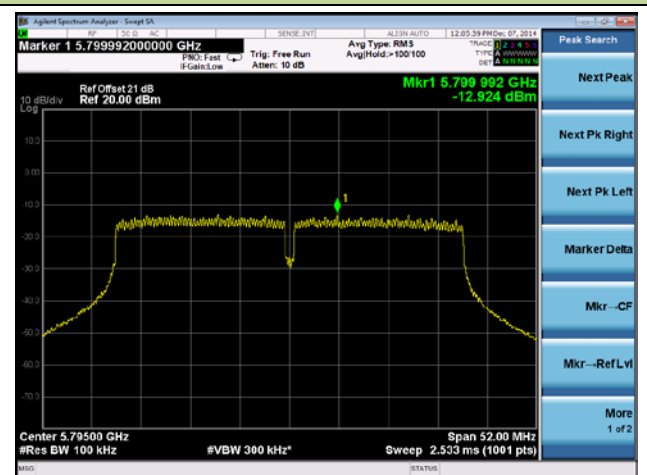
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



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:

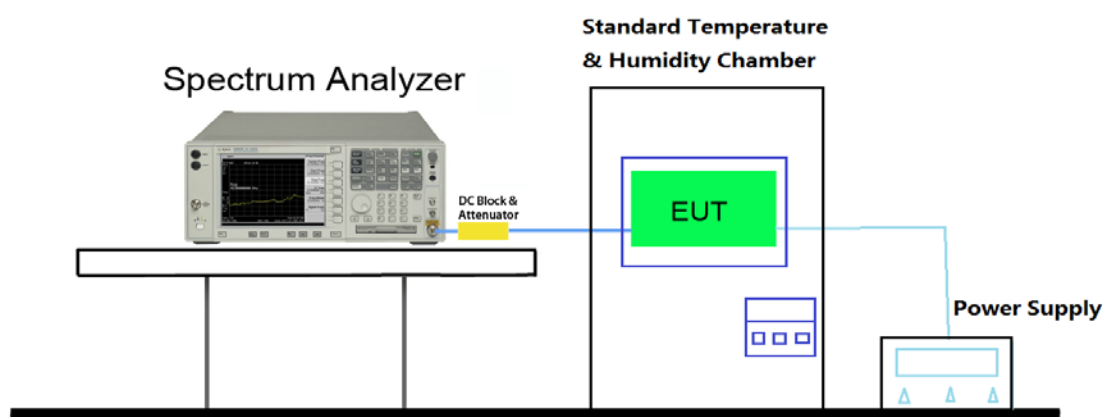
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.7.3. Test Setup



7.7.4. Test Result

Voltage (%)	Power (VAC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%	120	+ 20 (Ref)	5220034321.425	34321.425	0.0006575
			5784997132.629	-2867.371	-0.0000496
		- 30	5220028791.625	28791.625	0.0005516
			5785046237.832	46237.832	0.0007993
		- 20	5220038964.225	38964.225	0.0007464
			5784984958.263	-15041.737	-0.0002600
		- 10	5220047628.149	47628.149	0.0009124
			5785040648.209	40648.209	0.0007026
		0	5220019831.529	19831.529	0.0003799
			5785040934.382	40934.382	0.0007076
		+ 10	5220030621.553	30621.553	0.0005866
			5784962941.193	-37058.807	-0.0006406
		+ 20	5220022548.629	22548.629	0.0004320
			5784984624.448	-15375.552	-0.0002658
		+ 30	5220034812.405	34812.4049	0.0006669
			5785018725.453	18725.453	0.0003237
		+ 40	5219972548.036	-27451.964	-0.0005259
			5785084824.533	84824.533	0.0014663
		+ 50	5219969257.259	-30742.741	-0.0005889
			5785030947.209	30947.209	0.0005350
115%	138	+ 20	5220030694.187	30694.187	0.0005880
			5785004894.352	4894.352	0.0000846
85%	102	+ 20	5220044986.674	44986.674	0.0008618
			5784996570.039	-3429.961	-0.0000593

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

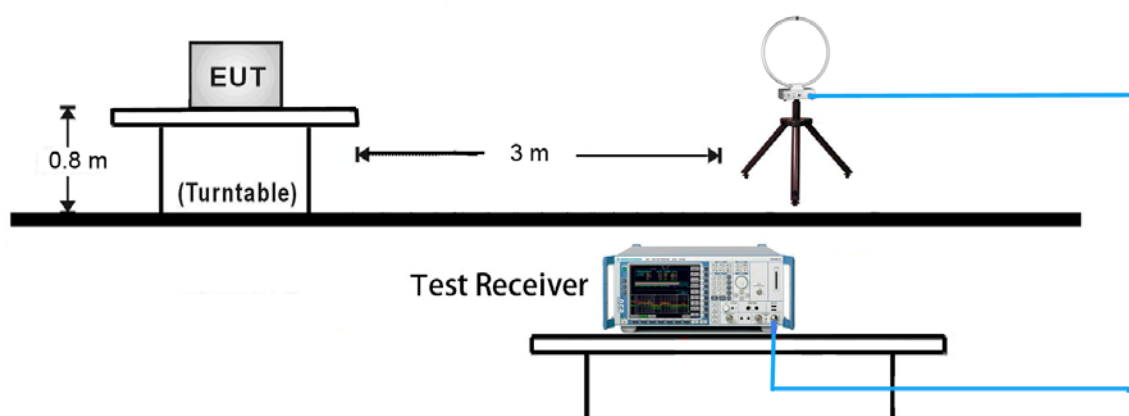
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

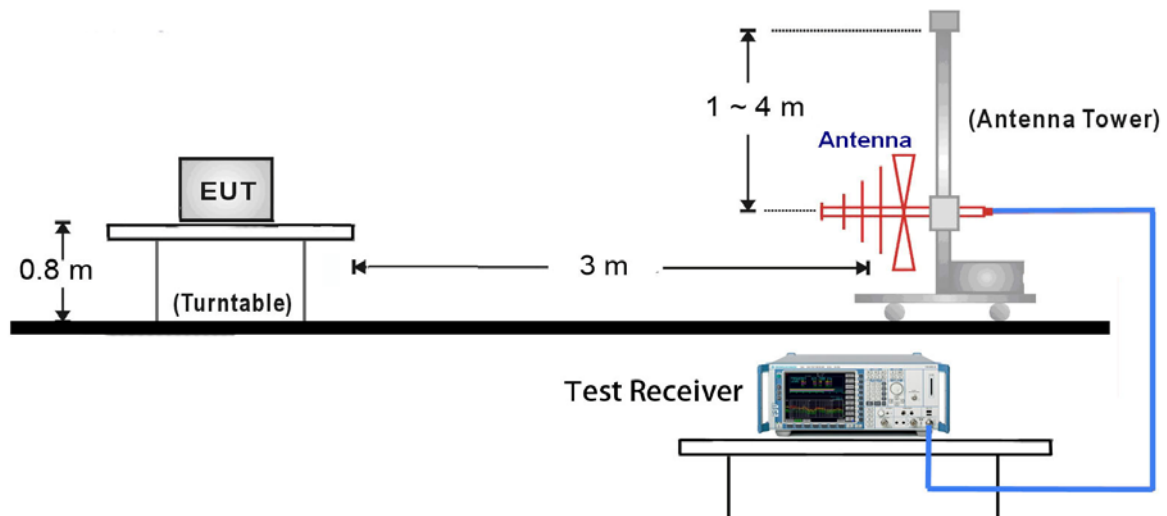
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace was averaged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

7.8.4. Test Setup

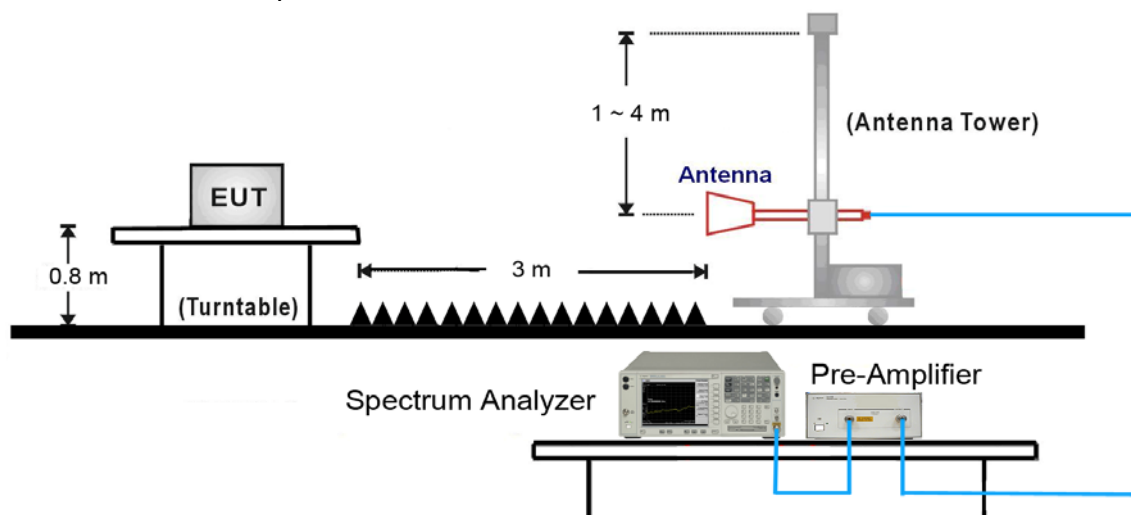
9kHz ~ 30MHz Test Setup:



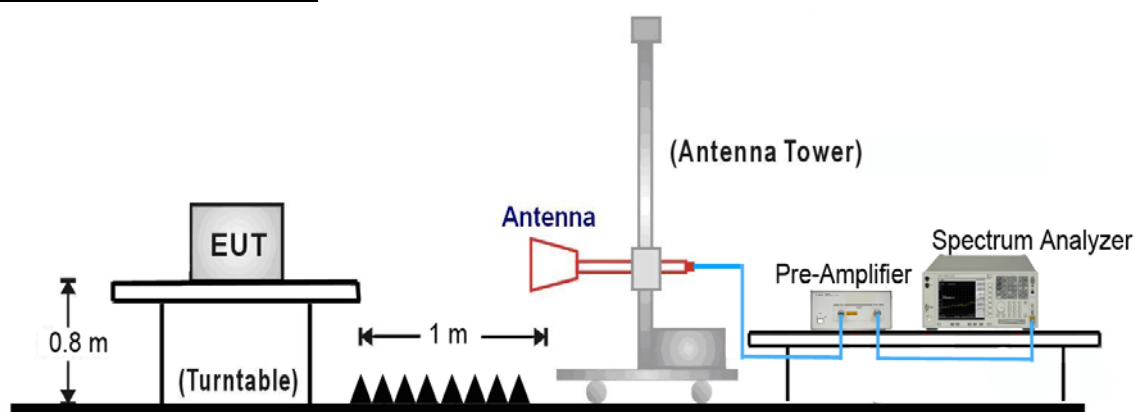
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 40GHz Test Setup:



7.8.5. Test Result

Test Mode:	802.11a	Test Site:	AC1
Test Channel:	36	Test Engineer:	Roy Cheng
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
*	7125.4	32.0	13.5	45.5	88.2	-42.7	Peak	Horizontal
*	7865.4	33.2	15.0	48.2	88.2	-40.0	Peak	Horizontal
	8423.7	32.8	14.6	47.4	74.0	-26.6	Peak	Horizontal
	9125.7	34.8	15.0	49.8	74.0	-24.2	Peak	Horizontal
*	7163.5	33.8	13.6	47.4	88.2	-40.8	Peak	Vertical
*	7846.4	32.5	15.1	47.6	88.2	-40.6	Peak	Vertical
	8423.4	33.2	14.6	47.8	74.0	-26.2	Peak	Vertical
	9144.4	35.6	15.2	50.8	74.0	-23.2	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	44	Test Engineer:	Roy Cheng
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
*	7145.7	33.5	13.5	47.0	88.2	-41.2	Peak	Horizontal
*	7846.4	32.6	15.1	47.7	88.2	-40.5	Peak	Horizontal
	8421.4	32.7	14.5	47.2	74.0	-26.8	Peak	Horizontal
	9141.5	35.3	15.2	50.5	74.0	-23.5	Peak	Horizontal
*	7147.0	32.2	13.5	45.7	88.2	-42.5	Peak	Vertical
*	7836.1	32.2	15.1	47.3	88.2	-40.9	Peak	Vertical
	8498.4	33.0	14.7	47.7	74.0	-26.3	Peak	Vertical
	9145.7	34.9	15.2	50.1	74.0	-23.9	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	48	Test Engineer:	Roy Cheng
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
*	7162.4	33.1	13.6	46.7	88.2	-41.5	Peak	Horizontal
*	7822.4	31.8	15.0	46.8	88.2	-41.4	Peak	Horizontal
	8395.4	32.9	14.4	47.3	74.0	-26.7	Peak	Horizontal
	9144.4	35.6	15.2	50.8	74.0	-23.2	Peak	Horizontal
*	7156.5	32.6	13.6	46.2	88.2	-42.0	Peak	Vertical
*	7847.7	32.9	15.1	48.0	88.2	-40.2	Peak	Vertical
	8472.4	32.6	14.6	47.2	74.0	-26.8	Peak	Vertical
	9143.7	35.4	15.2	50.6	74.0	-23.4	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	149	Test Engineer:	Roy Cheng
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
*	7145.7	32.9	13.5	46.4	88.2	-41.8	Peak	Horizontal
*	7822.4	31.7	15.0	46.7	88.2	-41.5	Peak	Horizontal
	8451.3	32.8	14.5	47.3	74.0	-26.7	Peak	Horizontal
	9143.7	35.7	15.2	50.9	74.0	-23.1	Peak	Horizontal
*	7146.4	33.6	13.5	47.1	88.2	-41.1	Peak	Vertical
*	7846.3	32.3	15.1	47.4	88.2	-40.8	Peak	Vertical
	9153.7	35.7	15.3	51.0	74.0	-23.0	Peak	Vertical
	9453.7	35.1	15.5	50.6	74.0	-23.4	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	157	Test Engineer:	Roy Cheng
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
*	7163.5	33.7	13.6	47.3	88.2	-40.9	Peak	Horizontal
*	7836.5	32.6	15.1	47.7	88.2	-40.5	Peak	Horizontal
	8457.5	33.7	14.5	48.2	74.0	-25.8	Peak	Horizontal
	9163.9	34.7	15.3	50.0	74.0	-24.0	Peak	Horizontal
*	7163.6	32.2	13.6	45.8	88.2	-42.4	Peak	Vertical
*	7846.4	32.0	15.1	47.1	88.2	-41.1	Peak	Vertical
	8426.4	33.7	14.6	48.3	74.0	-25.7	Peak	Vertical
	9153.7	34.7	15.3	50.0	74.0	-24.0	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	165	Test Engineer:	Roy Cheng
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
*	7156.4	33.5	13.6	47.1	88.2	-41.1	Peak	Horizontal
*	7846.4	33.3	15.1	48.4	88.2	-39.8	Peak	Horizontal
	8436.6	33.1	14.6	47.7	74.0	-26.3	Peak	Horizontal
	9143.7	35.2	15.2	50.4	74.0	-23.6	Peak	Horizontal
*	7153.7	33.0	13.6	46.6	88.2	-41.6	Peak	Vertical
*	7842.4	32.8	15.1	47.9	88.2	-40.3	Peak	Vertical
	8436.6	32.9	14.6	47.5	74.0	-26.5	Peak	Vertical
	9143.4	35.0	15.2	50.2	74.0	-23.8	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	36	Test Engineer:	Roy Cheng
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
*	7145.6	32.6	13.5	46.1	88.2	-42.1	Peak	Horizontal
*	7846.5	32.5	15.1	47.6	88.2	-40.6	Peak	Horizontal
	8463.6	33.6	14.5	48.1	74.0	-25.9	Peak	Horizontal
	9142.4	34.7	15.2	49.9	74.0	-24.1	Peak	Horizontal
*	7152.7	32.0	13.6	45.6	88.2	-42.6	Peak	Vertical
*	7843.7	32.6	15.1	47.7	88.2	-40.5	Peak	Vertical
	8472.7	32.8	14.6	47.4	74.0	-26.6	Peak	Vertical
	9142.1	35.0	15.2	50.2	74.0	-23.8	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	44	Test Engineer:	Roy Cheng
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
*	7153.4	33.4	13.6	47.0	88.2	-41.2	Peak	Horizontal
*	7841.0	33.3	15.1	48.4	88.2	-39.8	Peak	Horizontal
	8413.0	33.3	14.5	47.8	74.0	-26.2	Peak	Horizontal
	9145.7	34.7	15.2	49.9	74.0	-24.1	Peak	Horizontal
*	7146.9	32.6	13.5	46.1	88.2	-42.1	Peak	Vertical
*	7846.4	33.3	15.1	48.4	88.2	-39.8	Peak	Vertical
	8471.3	33.3	14.6	47.9	74.0	-26.1	Peak	Vertical
	9147.7	35.1	15.3	50.4	74.0	-23.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	48	Test Engineer:	Roy Cheng
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
*	7146.4	33.0	13.5	46.5	88.2	-41.7	Peak	Horizontal
*	8472.7	32.7	14.6	47.3	88.2	-40.9	Peak	Horizontal
	9145.4	35.6	15.2	50.8	74.0	-23.2	Peak	Horizontal
	9473.5	37.0	15.4	52.4	74.0	-21.6	Peak	Horizontal
*	7146.4	32.0	13.5	45.5	88.2	-42.7	Peak	Vertical
*	7846.3	32.7	15.1	47.8	88.2	-40.4	Peak	Vertical
	9146.6	34.5	15.3	49.8	74.0	-24.2	Peak	Vertical
	9417.9	35.3	15.5	50.8	74.0	-23.2	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	149	Test Engineer:	Roy Cheng
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
*	7164.6	32.4	13.6	46.0	88.2	-42.2	Peak	Horizontal
*	7823.7	32.6	15.1	47.7	88.2	-40.5	Peak	Horizontal
	8475.3	33.4	14.6	48.0	74.0	-26.0	Peak	Horizontal
	9425.7	34.0	15.5	49.5	74.0	-24.5	Peak	Horizontal
*	7146.4	32.7	13.5	46.2	88.2	-42.0	Peak	Vertical
*	7832.4	32.1	15.1	47.2	88.2	-41.0	Peak	Vertical
	8471.0	32.7	14.6	47.3	74.0	-26.7	Peak	Vertical
	9472.4	35.7	15.4	51.1	74.0	-22.9	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	157	Test Engineer:	Roy Cheng
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
*	7143.3	32.9	13.5	46.4	88.2	-41.8	Peak	Horizontal
*	7846.2	32.9	15.1	48.0	88.2	-40.2	Peak	Horizontal
	8479.9	33.2	14.6	47.8	74.0	-26.2	Peak	Horizontal
	9406.4	34.5	15.4	49.9	74.0	-24.1	Peak	Horizontal
*	7146.9	32.3	13.5	45.8	88.2	-42.4	Peak	Vertical
*	7843.1	32.3	15.1	47.4	88.2	-40.8	Peak	Vertical
	8456.6	33.1	14.5	47.6	74.0	-26.4	Peak	Vertical
	9452.0	34.9	15.5	50.4	74.0	-23.6	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	165	Test Engineer:	Roy Cheng
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
*	7153.9	33.0	13.6	46.6	88.2	-41.6	Peak	Horizontal
*	7847.2	32.5	15.1	47.6	88.2	-40.6	Peak	Horizontal
	8471.6	33.0	14.6	47.6	74.0	-26.4	Peak	Horizontal
	9412.0	34.6	15.5	50.1	74.0	-23.9	Peak	Horizontal
*	7149.0	32.7	13.5	46.2	88.2	-42.0	Peak	Vertical
*	7823.6	32.1	15.1	47.2	88.2	-41.0	Peak	Vertical
	8472.7	34.8	14.6	49.4	74.0	-24.6	Peak	Vertical
	9471.0	35.4	15.4	50.8	74.0	-23.2	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	38	Test Engineer:	Roy Cheng
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
*	7146.4	32.5	13.5	46.0	88.2	-42.2	Peak	Horizontal
*	7846.4	32.4	15.1	47.5	88.2	-40.7	Peak	Horizontal
	8453.7	32.8	14.5	47.3	74.0	-26.7	Peak	Horizontal
	9415.4	35.3	15.5	50.8	74.0	-23.2	Peak	Horizontal
*	7146.4	32.2	13.5	45.7	88.2	-42.5	Peak	Vertical
*	7836.6	31.8	15.1	46.9	88.2	-41.3	Peak	Vertical
	8471.3	32.9	14.6	47.5	74.0	-26.5	Peak	Vertical
	9472.4	35.7	15.4	51.1	74.0	-22.9	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	46	Test Engineer:	Roy Cheng
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
*	7143.3	31.8	13.5	45.3	88.2	-42.9	Peak	Horizontal
*	7863.7	33.1	15.0	48.1	88.2	-40.1	Peak	Horizontal
	8469.9	32.3	14.6	46.9	74.0	-27.1	Peak	Horizontal
	9472.4	35.7	15.4	51.1	74.0	-22.9	Peak	Horizontal
*	7146.5	33.4	13.5	46.9	88.2	-41.3	Peak	Vertical
*	7843.7	32.9	15.1	48.0	88.2	-40.2	Peak	Vertical
	8472.0	33.1	14.6	47.7	74.0	-26.3	Peak	Vertical
	9472.4	35.6	15.4	51.0	74.0	-23.0	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	151	Test Engineer:	Roy Cheng
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
*	7146.6	32.0	13.5	45.5	88.2	-42.7	Peak	Horizontal
*	7892.2	32.4	15.0	47.4	88.2	-40.8	Peak	Horizontal
	8471.7	34.5	14.6	49.1	74.0	-24.9	Peak	Horizontal
	9471.0	34.9	15.4	50.3	74.0	-23.7	Peak	Horizontal
*	7146.4	33.1	13.5	46.6	88.2	-41.6	Peak	Vertical
*	7813.3	32.3	15.0	47.3	88.2	-40.9	Peak	Vertical
	8472.1	32.9	14.6	47.5	74.0	-26.5	Peak	Vertical
	9473.6	34.7	15.4	50.1	74.0	-23.9	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 of 68.2dBμV/m.

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	Test Site:	AC1
Test Channel:	159	Test Engineer:	Roy Cheng
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
*	7148.9	32.5	13.5	46.0	88.2	-42.2	Peak	Horizontal
*	7847.2	32.4	15.1	47.5	88.2	-40.7	Peak	Horizontal
	8473.3	32.6	14.6	47.2	74.0	-26.8	Peak	Horizontal
	9472.4	35.6	15.4	51.0	74.0	-23.0	Peak	Horizontal
*	7147.5	32.5	13.5	46.0	88.2	-42.2	Peak	Vertical
*	7848.7	32.5	15.1	47.6	88.2	-40.6	Peak	Vertical
	8473.4	33.2	14.6	47.8	74.0	-26.2	Peak	Vertical
	9472.4	35.4	15.4	50.8	74.0	-23.2	Peak	Vertical

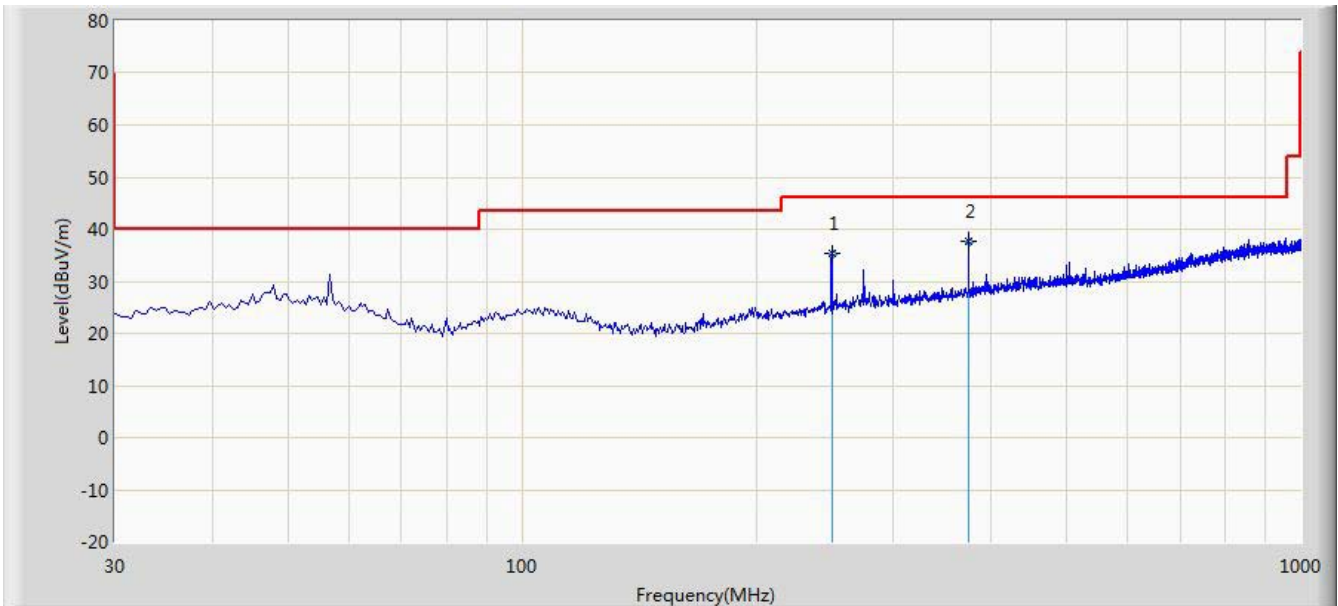
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.

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

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

The worst case of Radiated Emission below 1GHz:

Site: AC1	Time: 2014/12/03 - 10:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 5180MHz by 802.11n-HT20	

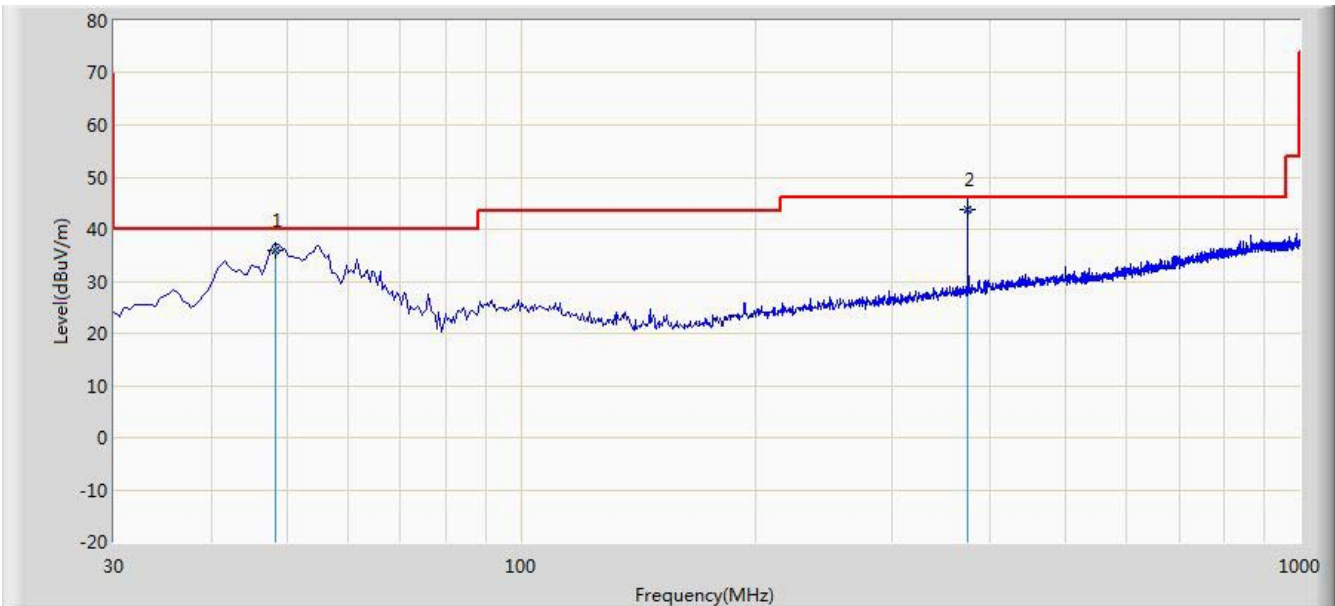


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			250.010	35.232	21.952	-10.768	46.000	13.279	QP
2		*	375.022	37.752	22.020	-8.248	46.000	15.732	QP

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

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

Site: AC1	Time: 2014/12/03 - 10:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 5180MHz by 802.11n-HT20	

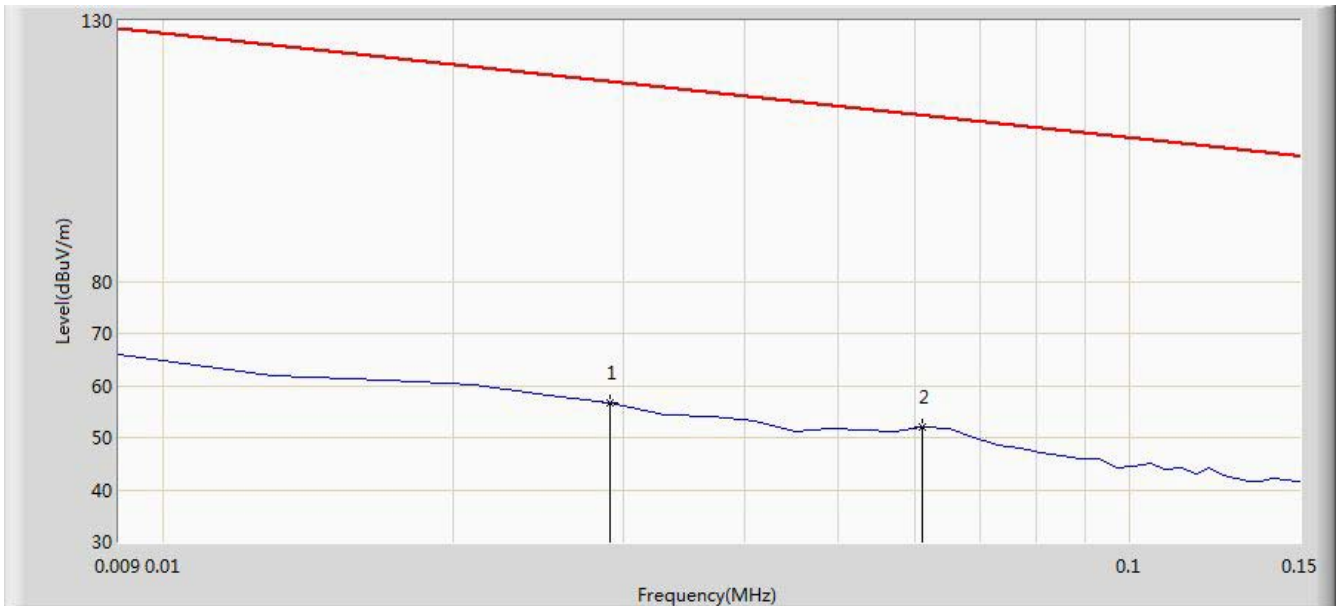


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			48.440	36.033	21.250	-3.967	40.000	14.783	QP
2		*	375.020	43.752	28.020	-2.248	46.000	15.732	QP

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

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

Site: AC1	Time: 2014/10/20 - 19:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 9kHz~30MHz(802.11n-HT20 5180MHz).	

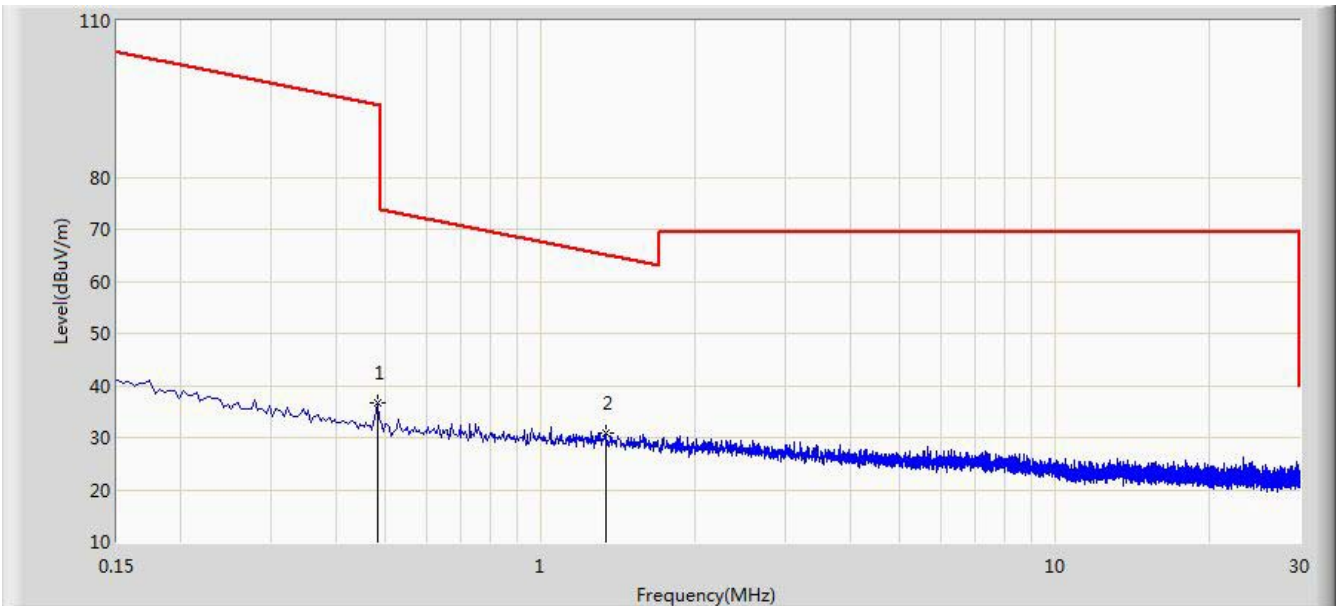


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.029	56.610	35.660	-61.732	118.342	21.049	QP
2		*	0.061	51.899	31.588	-59.988	111.887	20.311	QP

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

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

Site: AC1	Time: 2014/10/20 - 19:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 9kHz~30MHz(802.11n-HT20 5180MHz).	

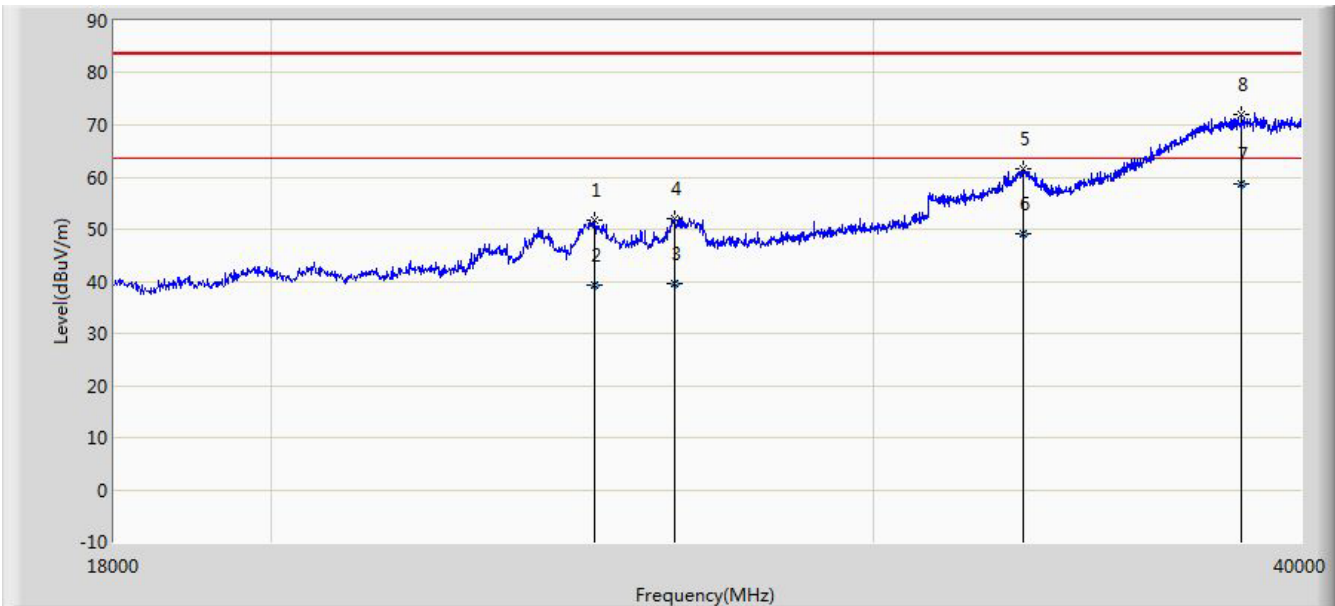


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.482	36.584	16.183	-57.359	93.943	20.401	QP
2		*	1.338	31.001	10.512	-34.098	65.099	20.489	QP

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

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

Site: AC1	Time: 2014/10/20 - 21:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 18GHz~40GHz(802.11n-HT20 5180MHz).	



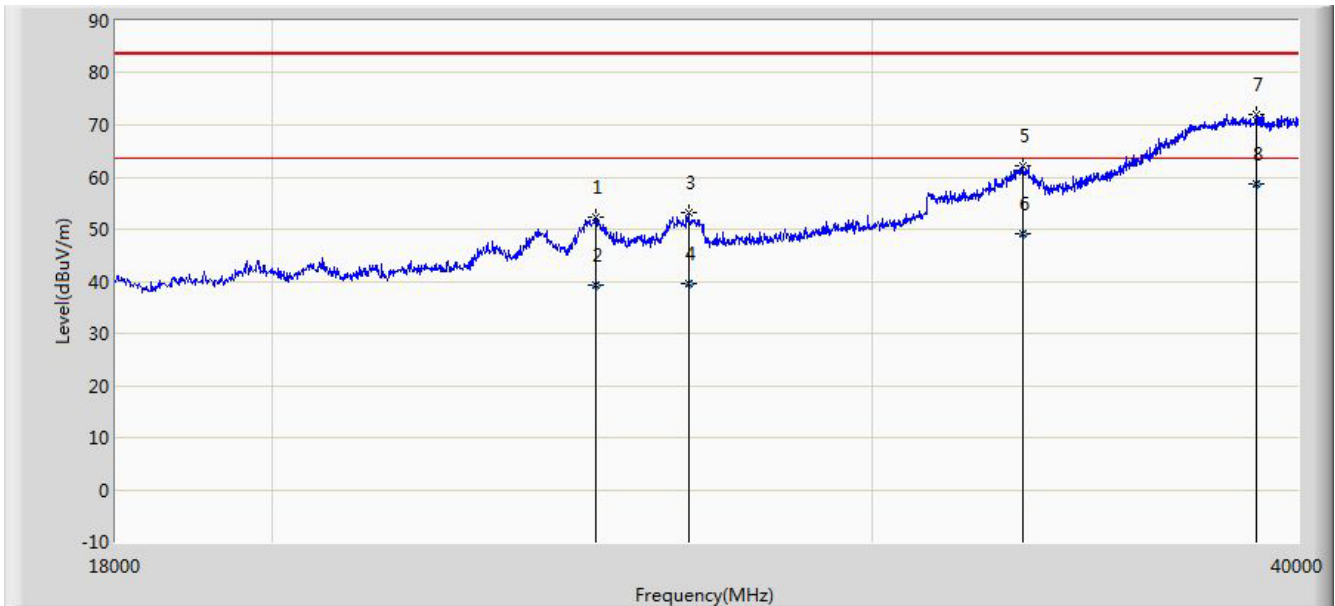
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			24864.000	51.836	37.061	-31.664	83.500	14.775	PK
2			24864.088	39.225	24.450	-24.275	63.500	14.775	AV
3			26260.988	39.469	24.050	-24.031	63.500	15.419	AV
4			26261.000	51.956	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)

Limit (83.5 dBμV/m) = 74 dBμV/m + 20Log(3m/1m)

Site: AC1	Time: 2014/10/20 - 21:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 18GHz~40GHz(802.11n-HT20 5180MHz).	



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)

Limit (83.5 dBμV/m) = 74 dBμV/m + 20Log(3m/1m)

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).

MHz	MHz	MHz	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	8.025 - 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 - 156.52525	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)

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 5.725-5.85 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.

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150 - 5250	-27	68.2
5725 - 5850	-17	78.2
	-27	68.2

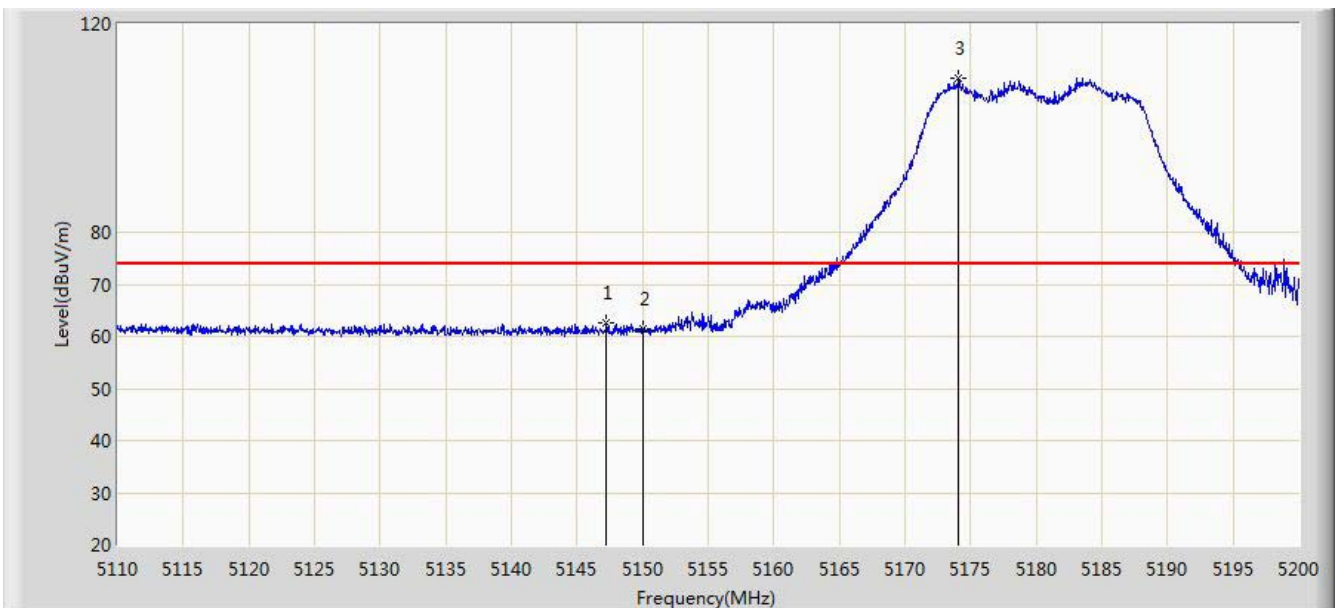
Note: Refer to KDB 789033 D02v01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the 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: AC1	Time: 2014/12/02 - 16:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 0 + 1	

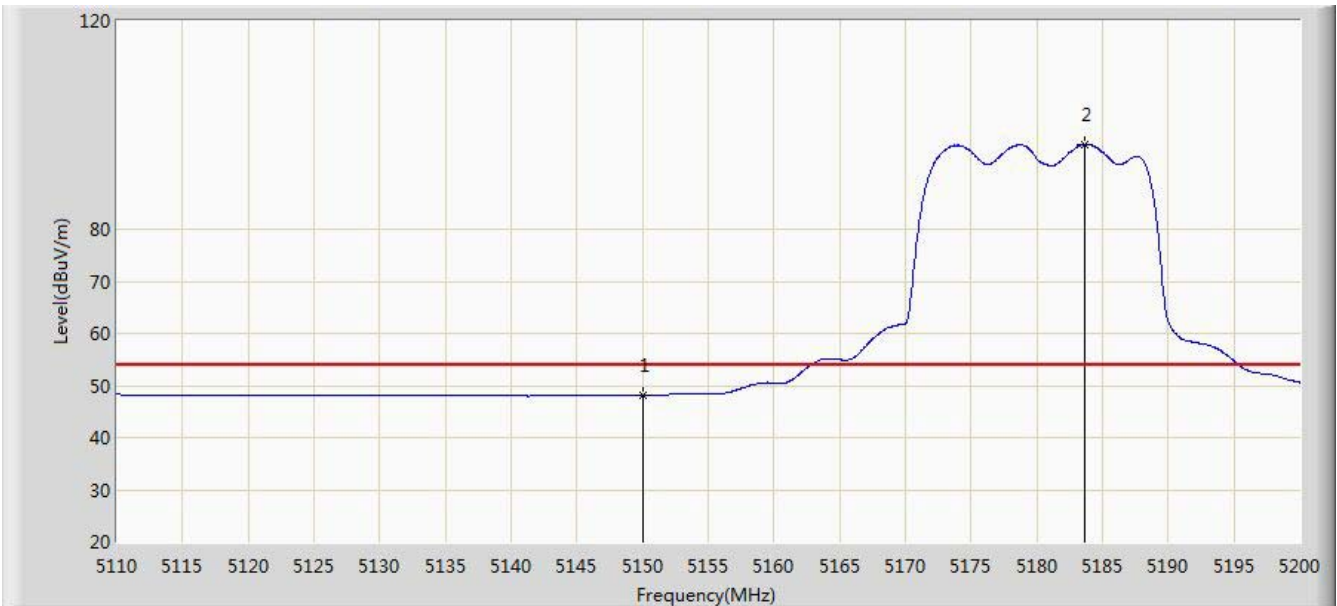


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.260	62.490	25.734	-11.510	74.000	36.756	PK
2			5150.000	61.349	24.597	-12.651	74.000	36.752	PK
3		*	5174.080	109.626	72.942	35.626	74.000	36.684	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 0 + 1	

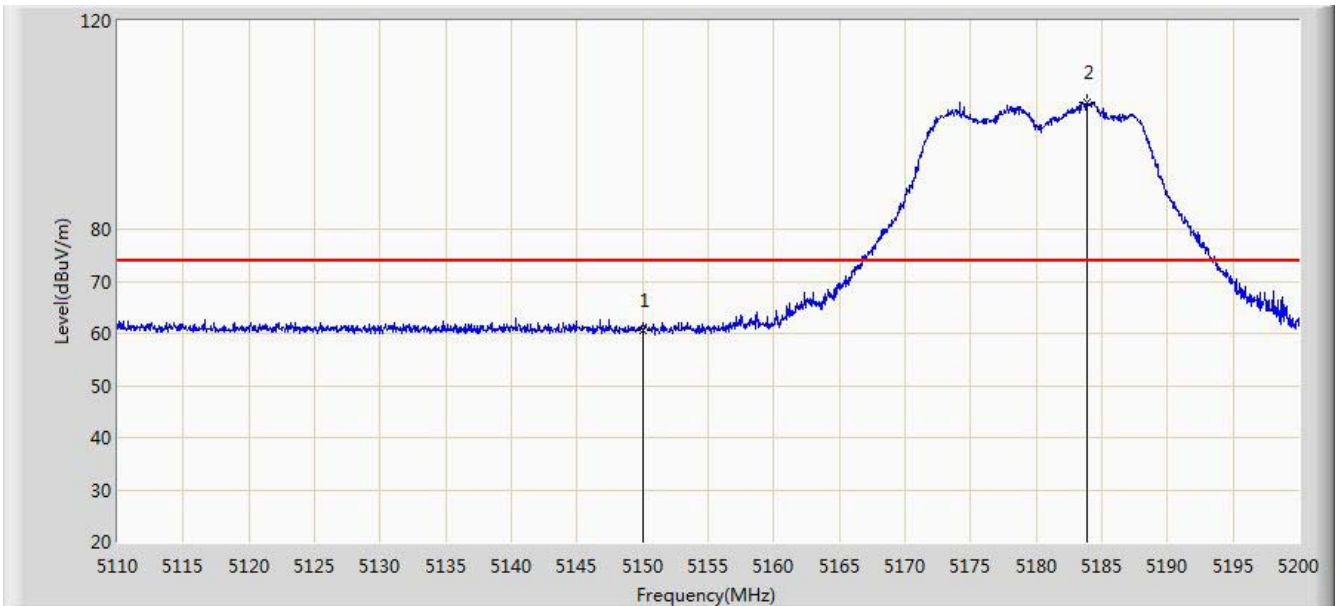


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.102	11.350	-5.898	54.000	36.752	AV
2		*	5183.665	96.247	59.592	42.247	54.000	36.654	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 0 + 1	

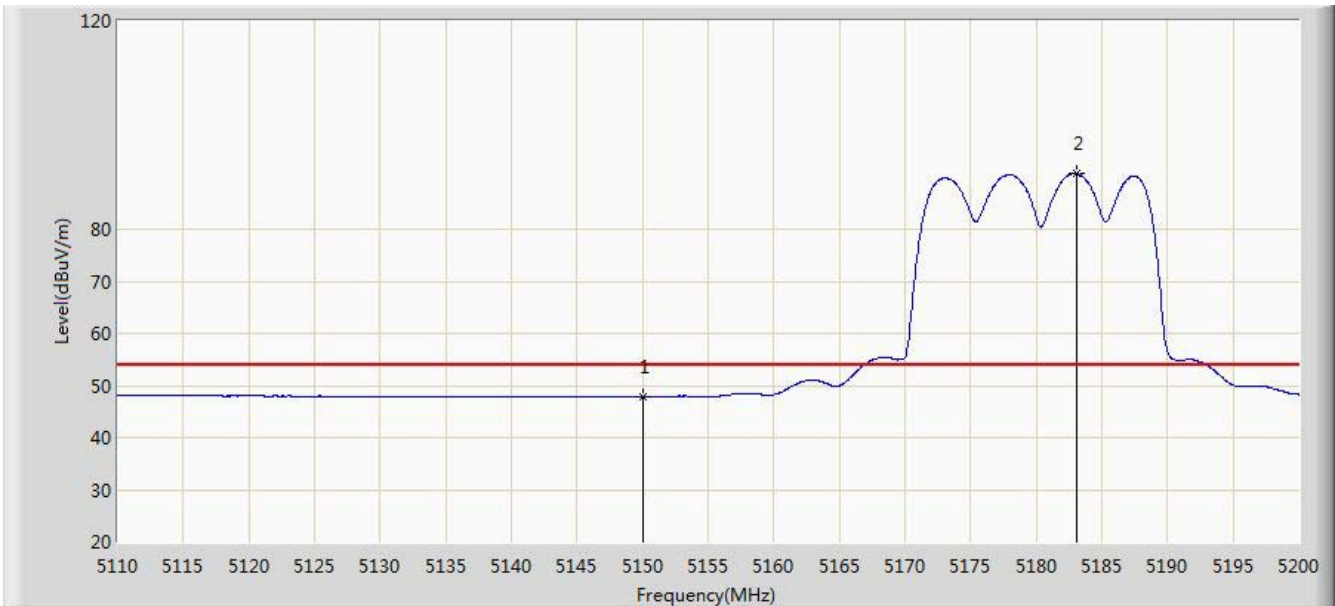


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	60.537	23.785	-13.463	74.000	36.752	PK
2		*	5183.845	104.358	67.704	30.358	74.000	36.654	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 0 + 1	

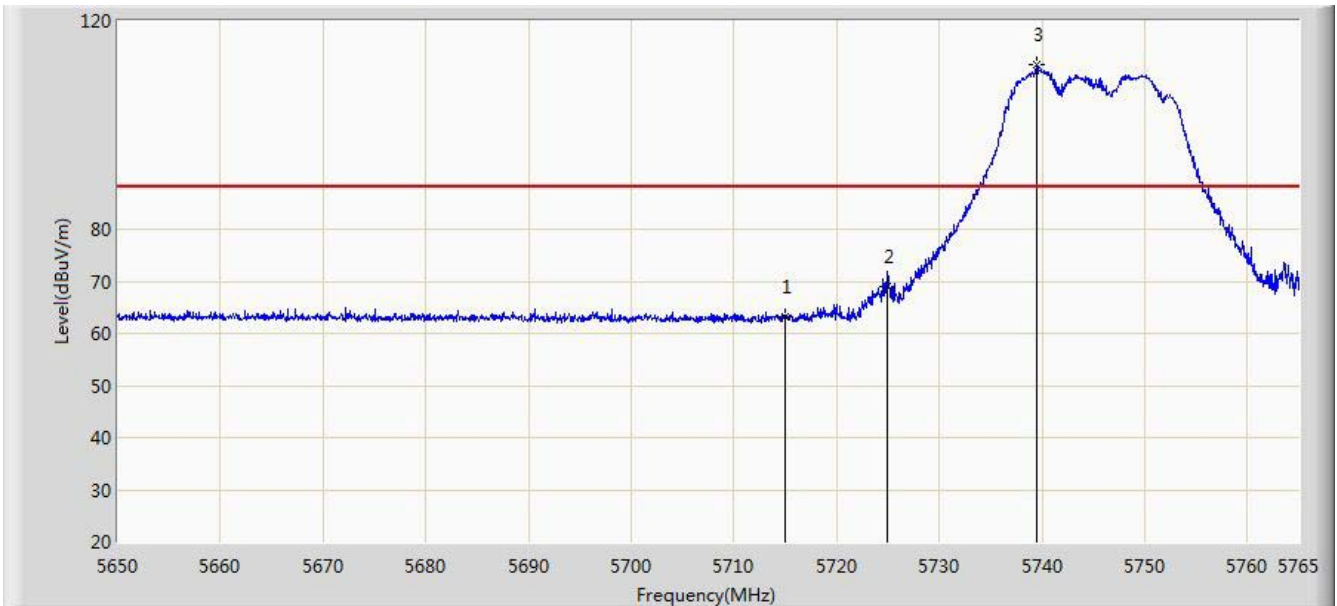


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.822	11.070	-6.178	54.000	36.752	AV
2		*	5183.035	90.706	54.050	36.706	54.000	36.657	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:29
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 0 + 1	

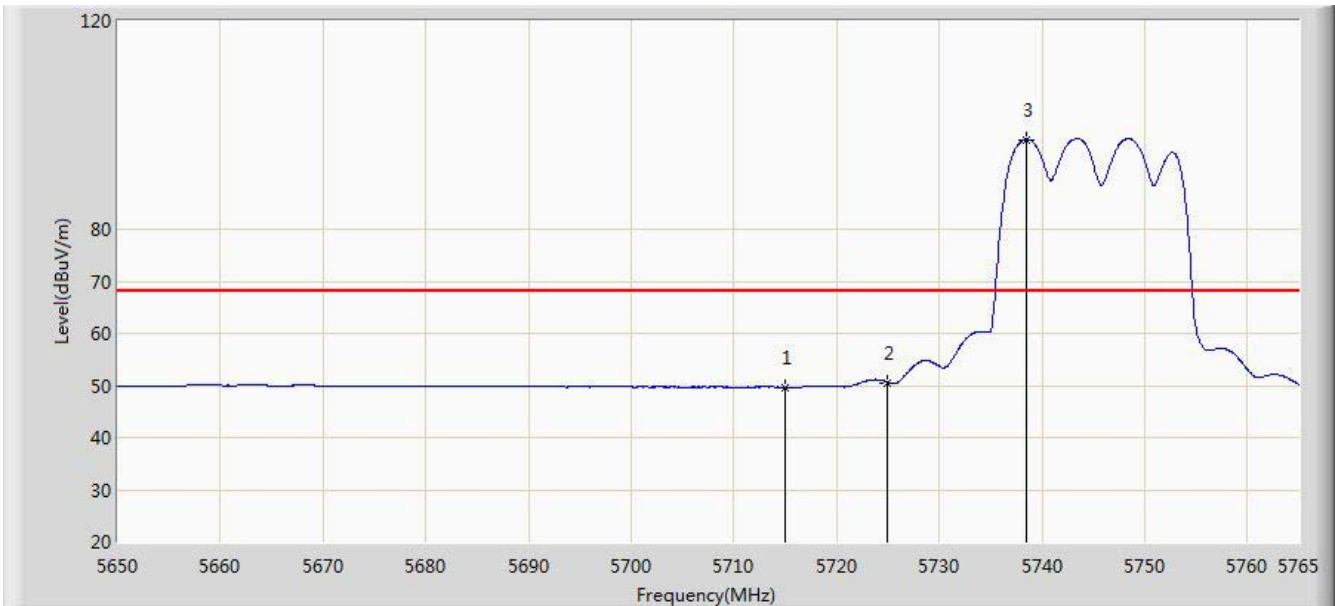


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	63.275	26.008	-24.925	88.200	37.267	PK
2			5725.000	68.863	31.558	-19.337	88.200	37.305	PK
3		*	5739.470	111.599	74.236	23.399	88.200	37.363	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:32
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 0 + 1	

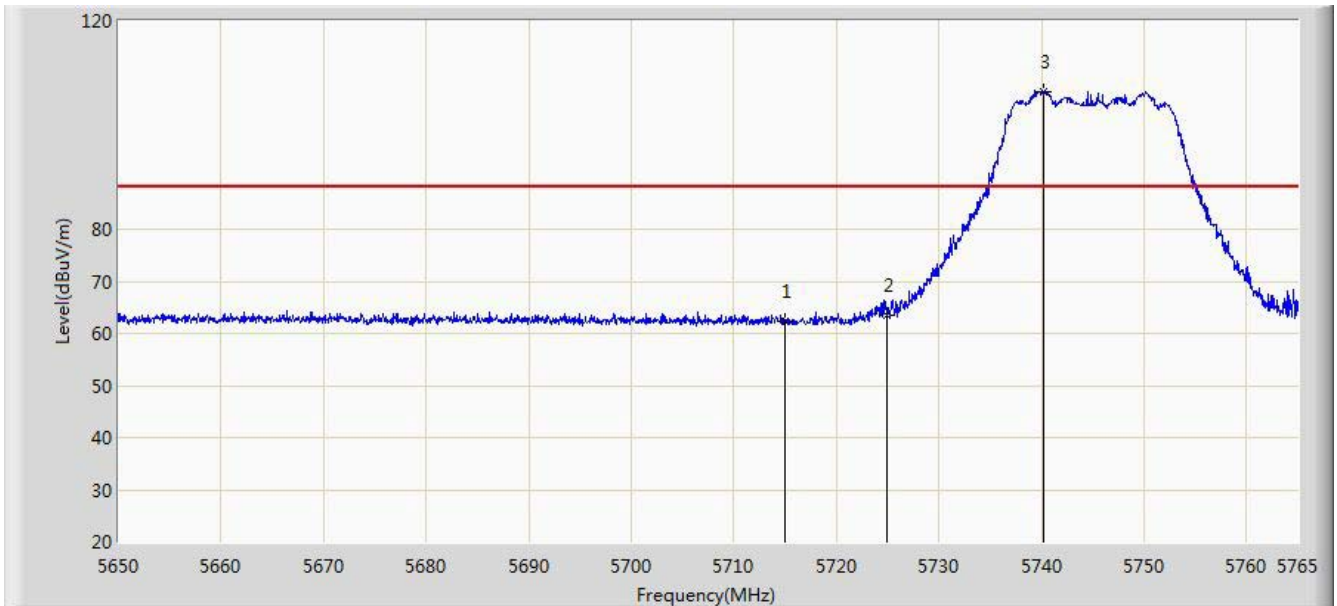


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	49.626	12.359	-18.574	68.200	37.267	AV
2			5725.000	50.539	13.234	-17.661	68.200	37.305	AV
3		*	5738.493	97.239	59.879	29.039	68.200	37.360	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:33
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 0 + 1	

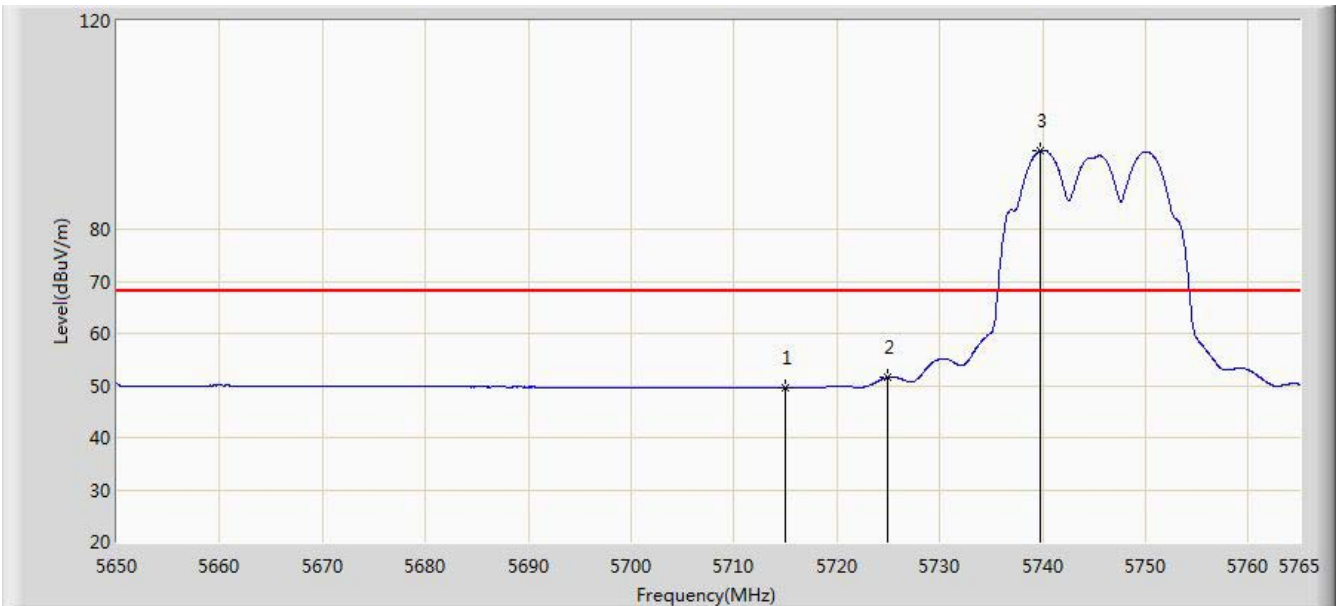


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	62.351	25.084	-25.849	88.200	37.267	PK
2			5725.000	63.600	26.295	-24.600	88.200	37.305	PK
3		*	5740.275	106.516	69.150	18.316	88.200	37.366	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:34
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 0 + 1	

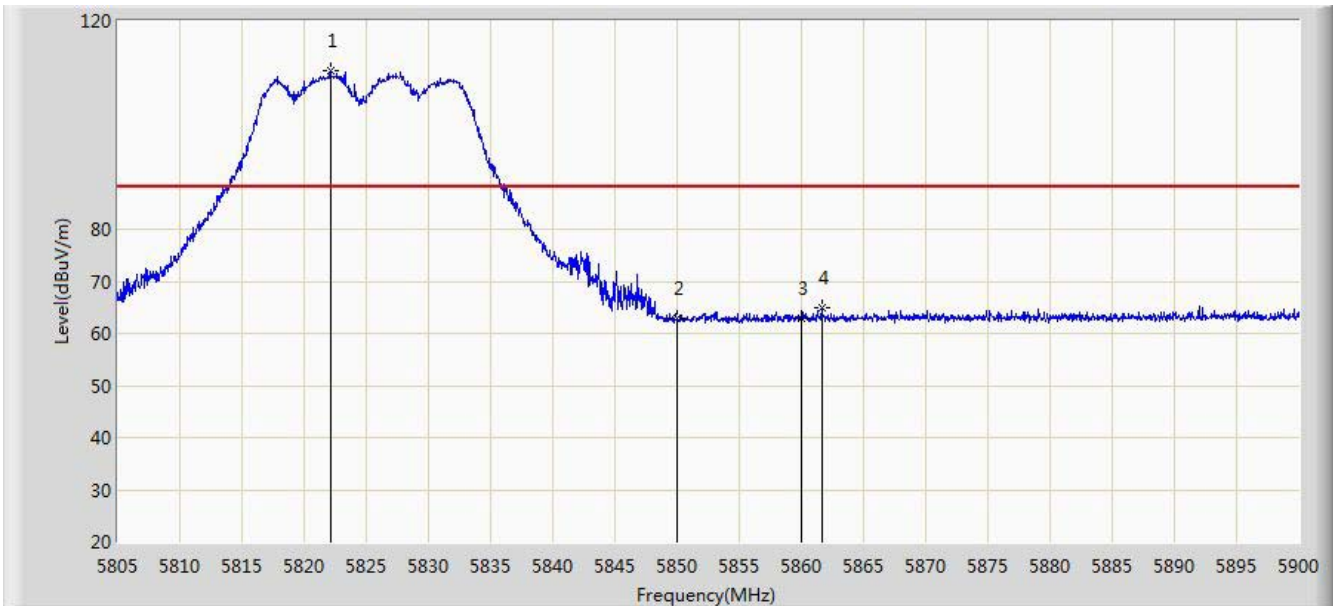


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	49.614	12.347	-18.586	68.200	37.267	AV
2			5725.000	51.591	14.286	-16.609	68.200	37.305	AV
3		*	5739.757	95.075	57.711	26.875	68.200	37.364	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:36
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 0 + 1	

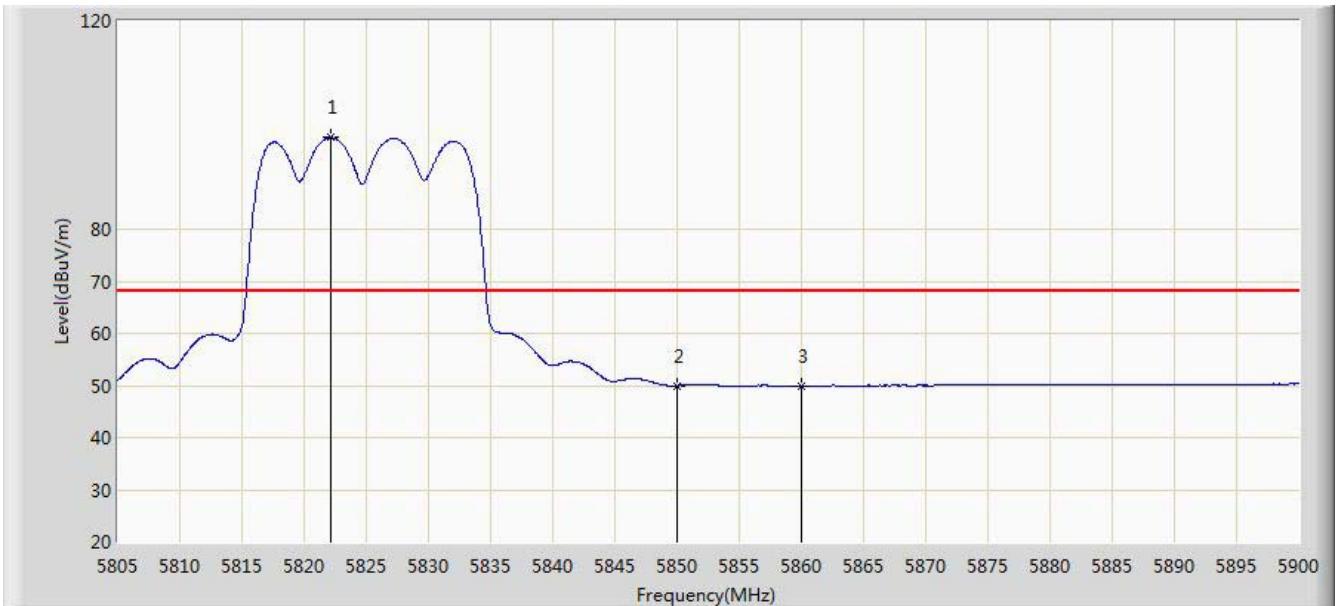


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5822.100	110.435	72.787	22.235	88.200	37.648	PK
2			5850.000	62.902	25.166	-25.298	88.200	37.736	PK
3			5860.000	62.997	25.223	-25.203	88.200	37.774	PK
4			5861.667	64.972	27.192	-23.228	88.200	37.780	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:38
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 0 + 1	

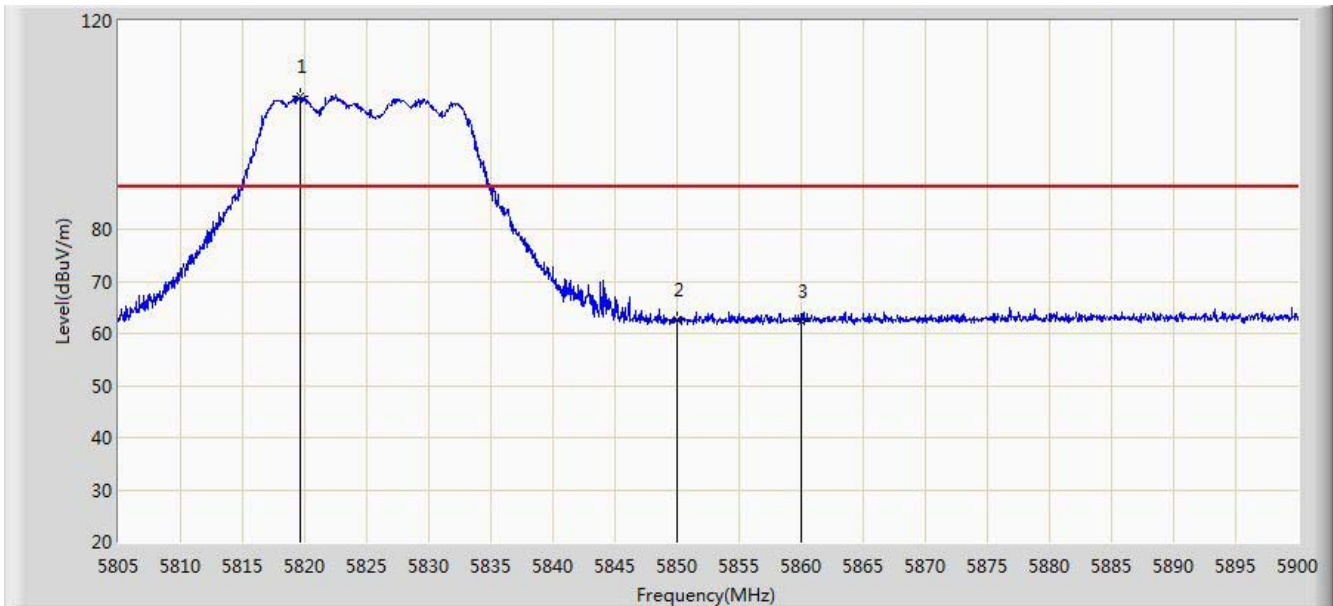


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5822.100	97.576	59.928	29.376	68.200	37.648	AV
2			5850.000	49.979	12.243	-18.221	68.200	37.736	AV
3			5860.000	49.906	12.132	-18.294	68.200	37.774	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:39
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 0 + 1	

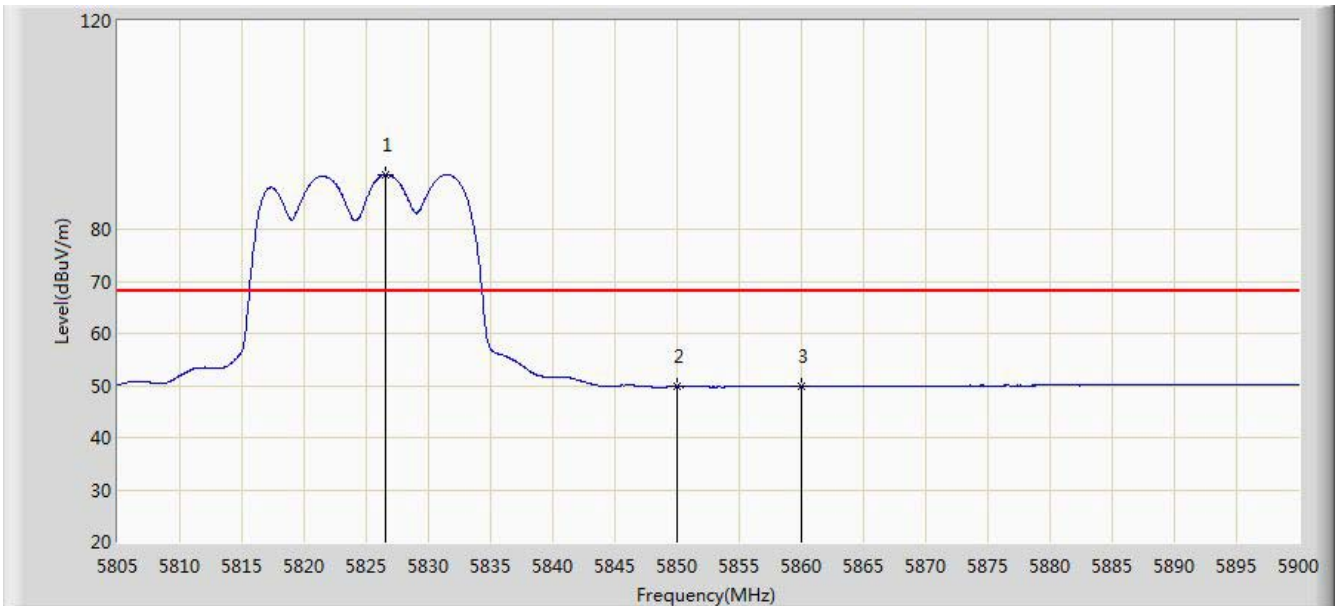


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.678	105.399	67.756	17.199	88.200	37.643	PK
2			5850.000	62.469	24.733	-25.731	88.200	37.736	PK
3			5860.000	62.387	24.613	-25.813	88.200	37.774	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:40
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 0 + 1	

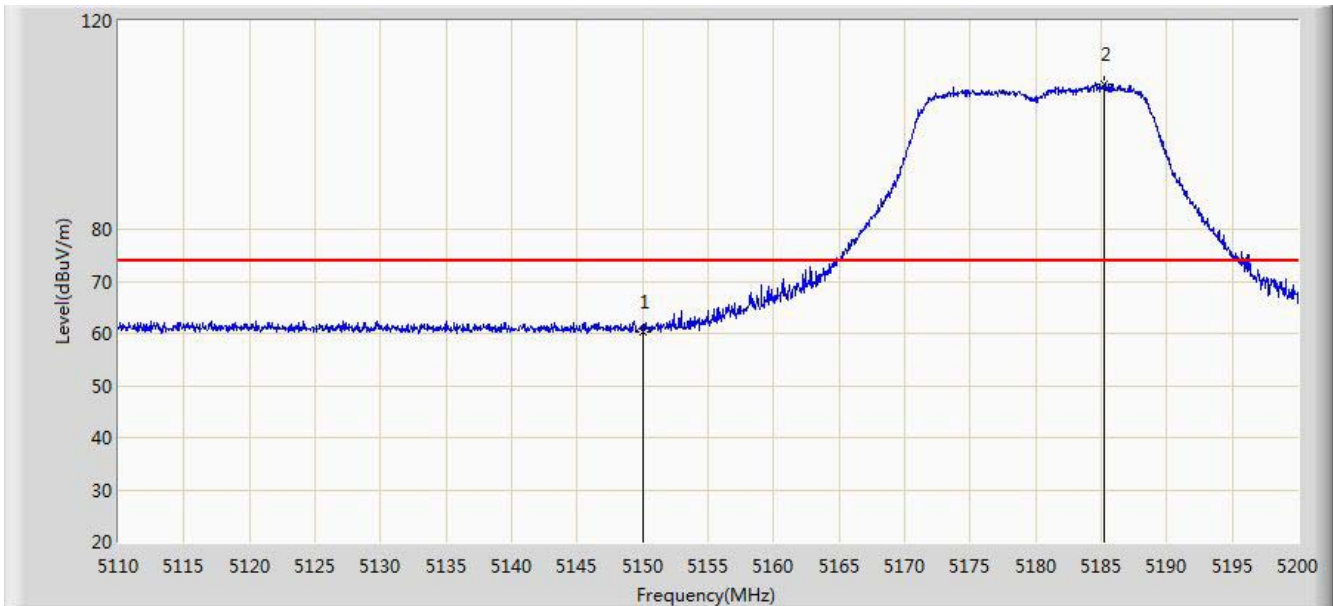


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5826.518	90.433	52.777	22.233	68.200	37.656	AV
2			5850.000	49.744	12.008	-18.456	68.200	37.736	AV
3			5860.000	49.783	12.009	-18.417	68.200	37.774	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 0 + 1	

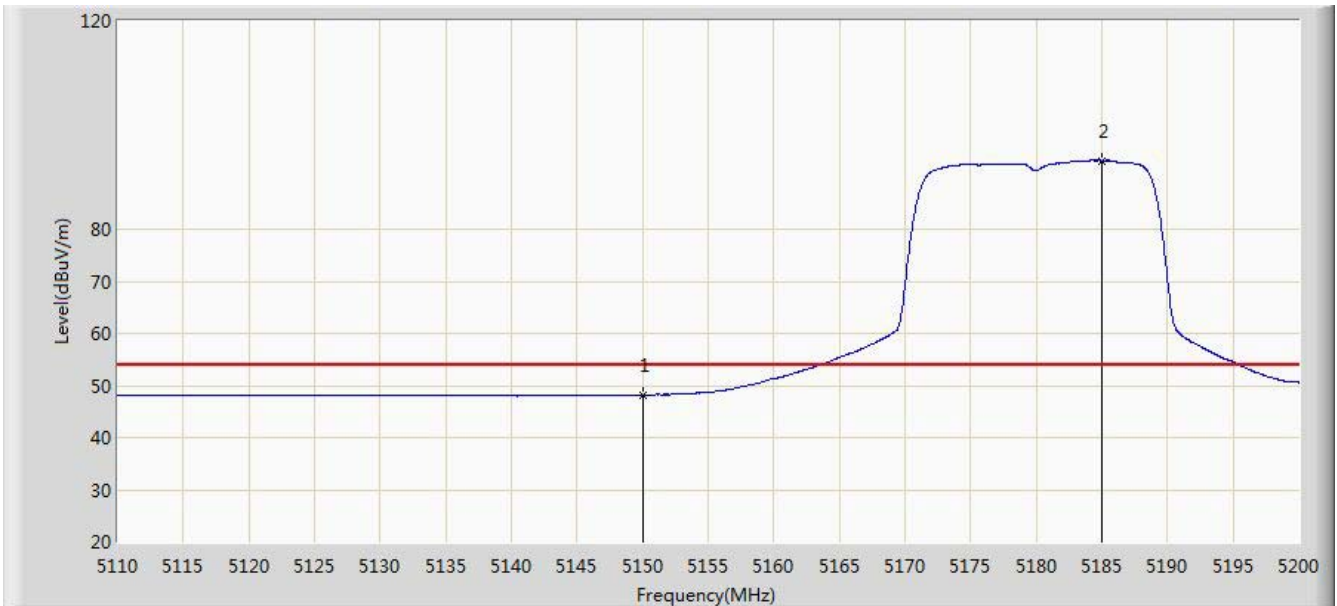


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	60.424	23.672	-13.576	74.000	36.752	PK
2		*	5185.195	107.922	71.272	33.922	74.000	36.650	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 0 + 1	

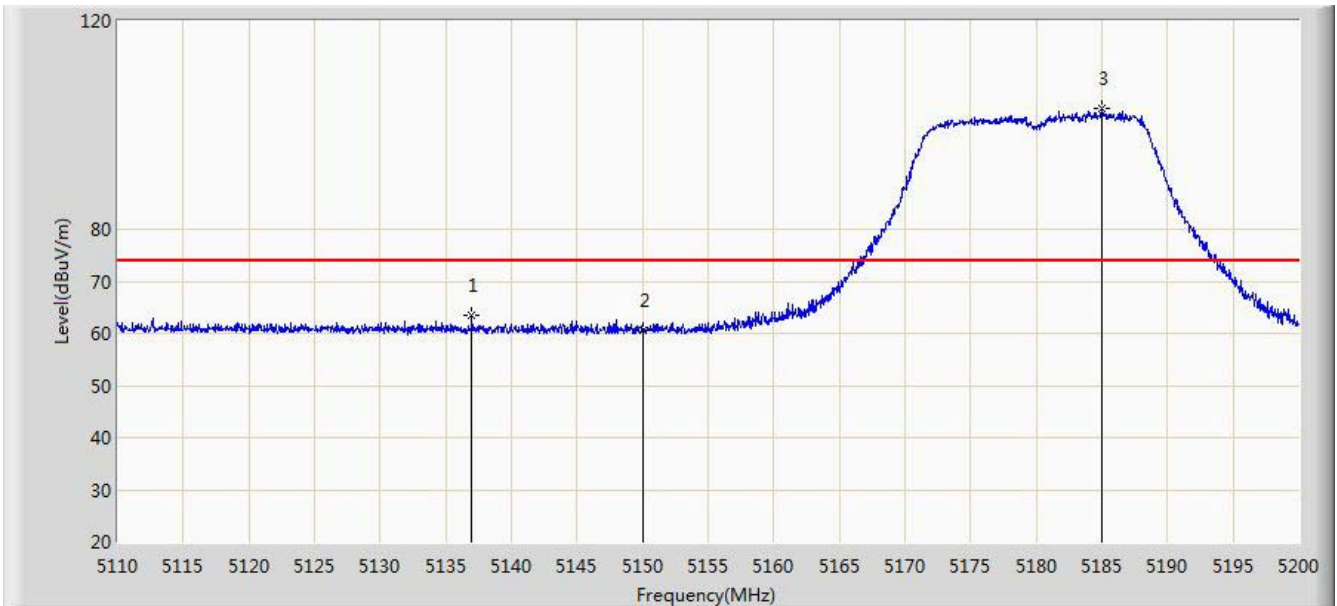


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.163	11.411	-5.837	54.000	36.752	AV
2		*	5184.970	93.173	56.522	39.173	54.000	36.651	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 0 + 1	

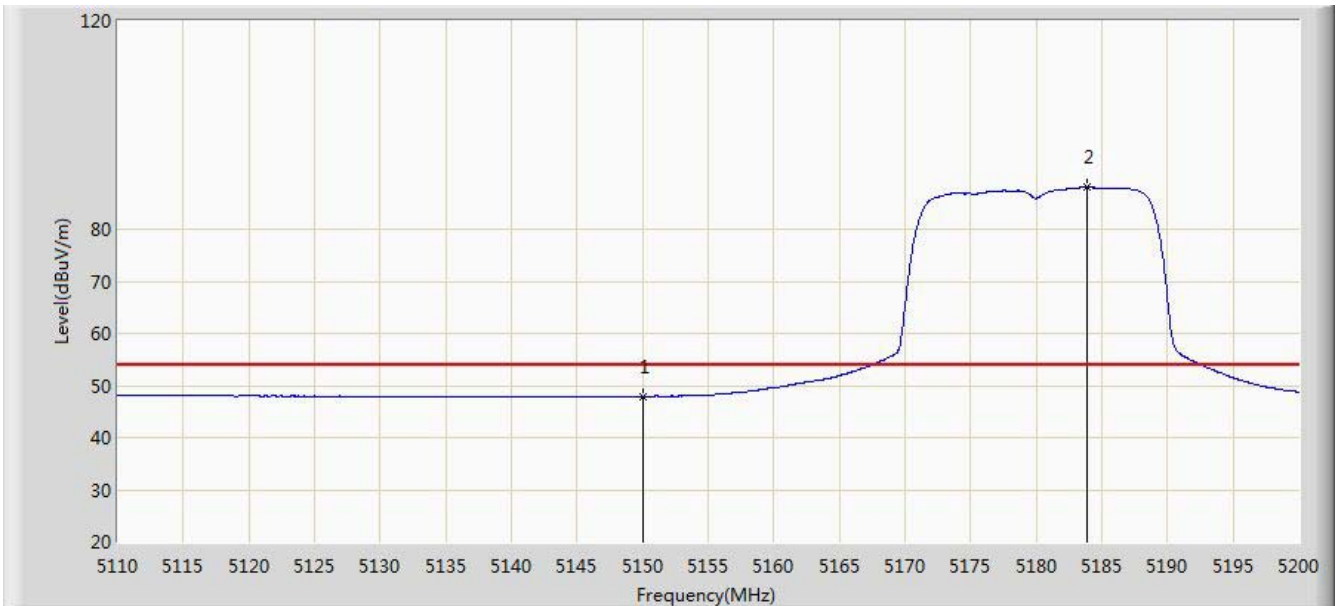


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5137.000	63.424	26.654	-10.576	74.000	36.770	PK
2			5150.000	60.618	23.866	-13.382	74.000	36.752	PK
3		*	5184.970	103.285	66.634	29.285	74.000	36.651	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 0 + 1	

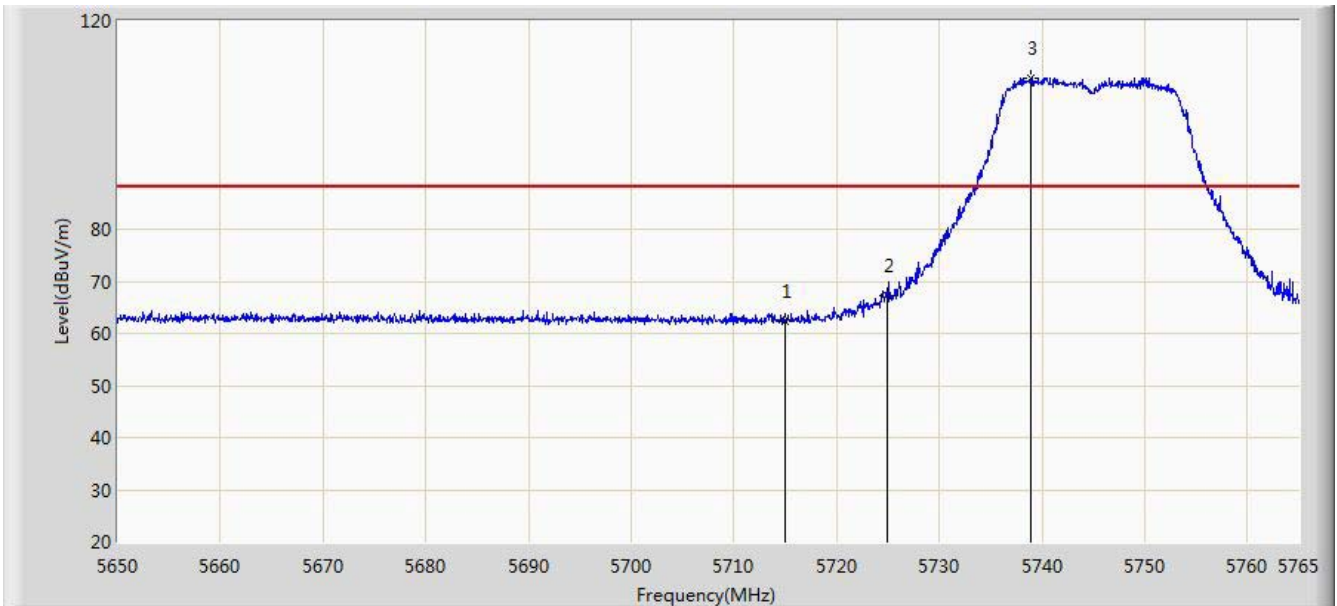


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.937	11.185	-6.063	54.000	36.752	AV
2		*	5183.845	87.989	51.335	33.989	54.000	36.654	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:49
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 0 + 1	

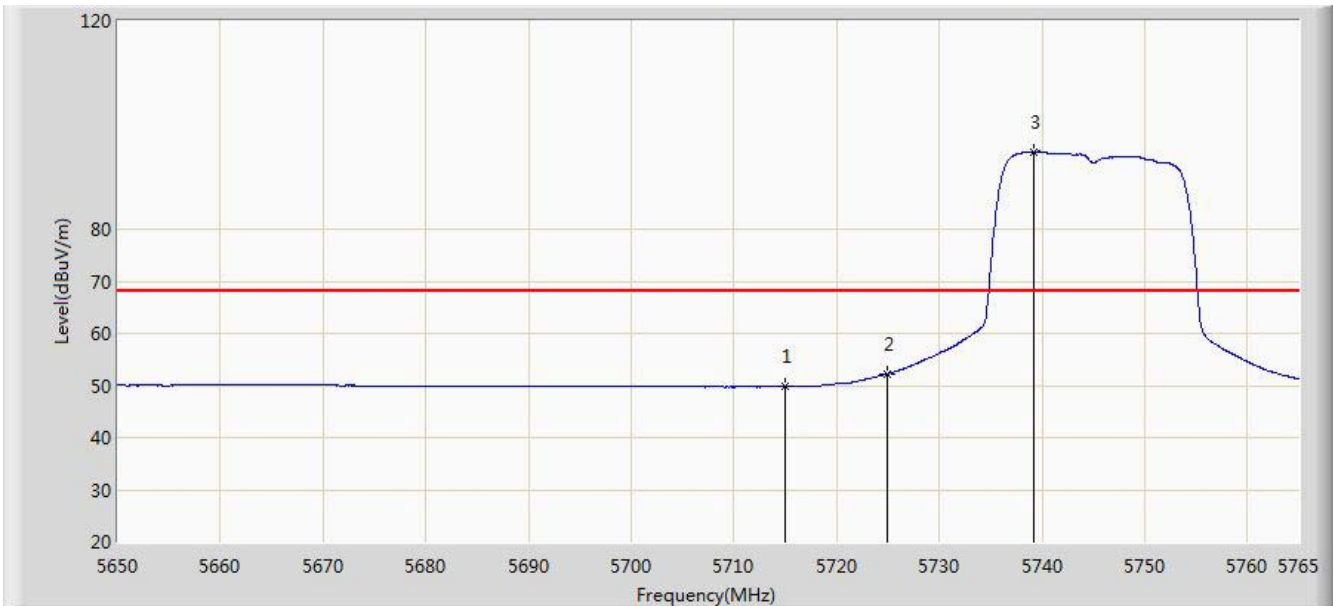


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	62.405	25.138	-25.795	88.200	37.267	PK
2			5725.000	67.319	30.014	-20.881	88.200	37.305	PK
3		*	5738.895	109.034	71.673	20.834	88.200	37.361	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:50
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 0 + 1	

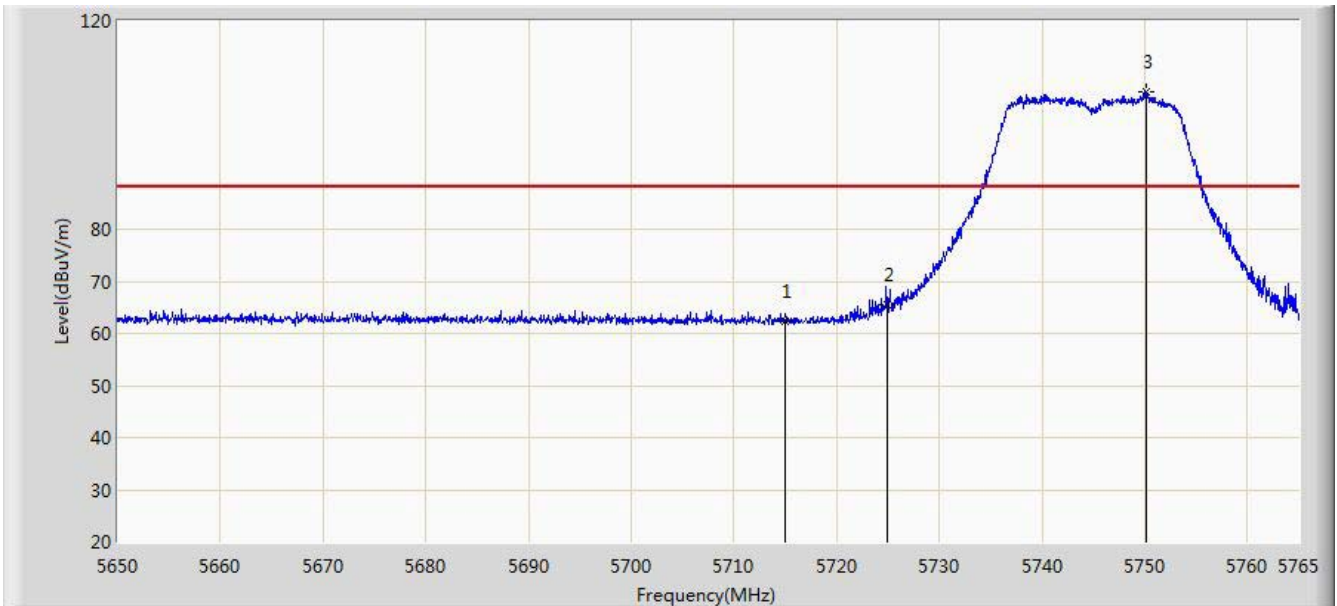


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	49.815	12.548	-18.385	68.200	37.267	AV
2			5725.000	52.261	14.956	-15.939	68.200	37.305	AV
3		*	5739.183	94.859	57.497	26.659	68.200	37.362	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:51
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 0 + 1	

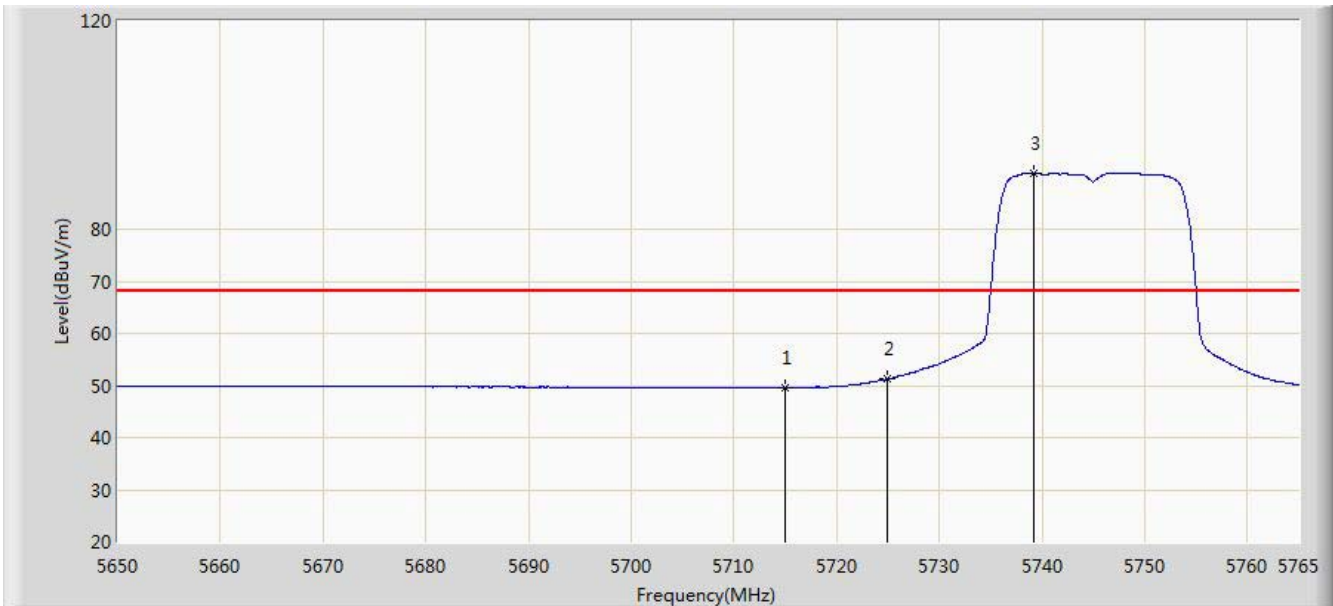


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	62.378	25.111	-25.822	88.200	37.267	PK
2			5725.000	65.445	28.140	-22.755	88.200	37.305	PK
3		*	5750.107	106.328	68.923	18.128	88.200	37.405	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:52
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 0 + 1	

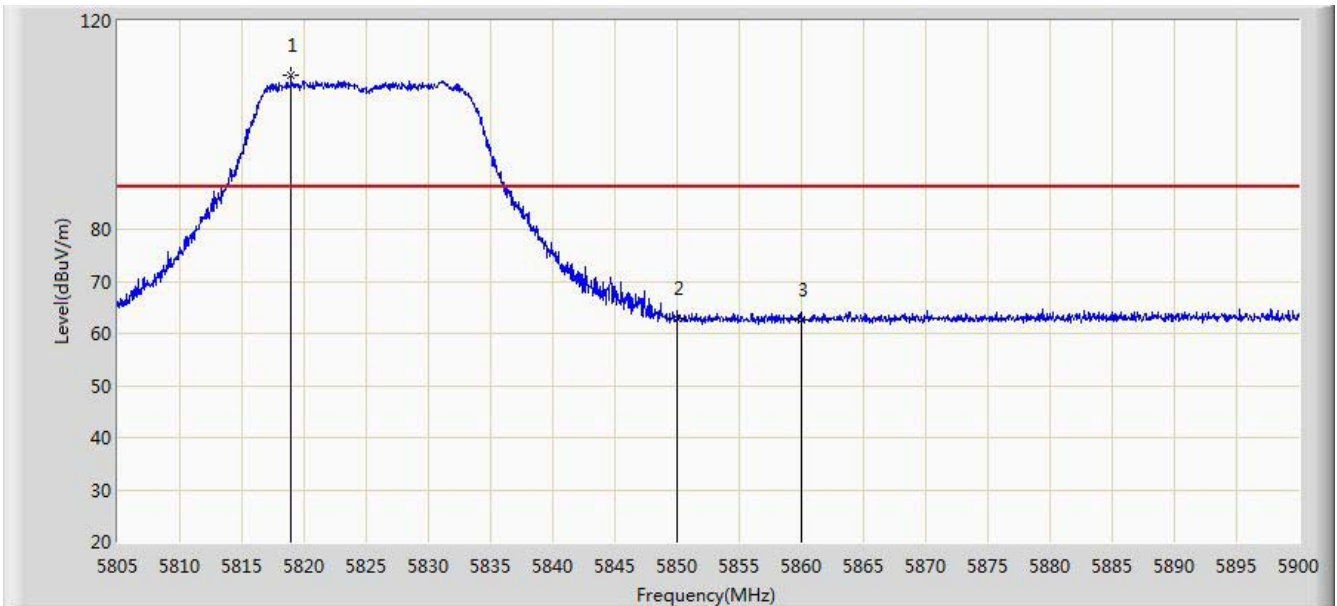


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	49.554	12.287	-18.646	68.200	37.267	AV
2			5725.000	51.210	13.905	-16.990	68.200	37.305	AV
3		*	5739.240	90.658	53.296	22.458	68.200	37.362	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:53
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 0 + 1	

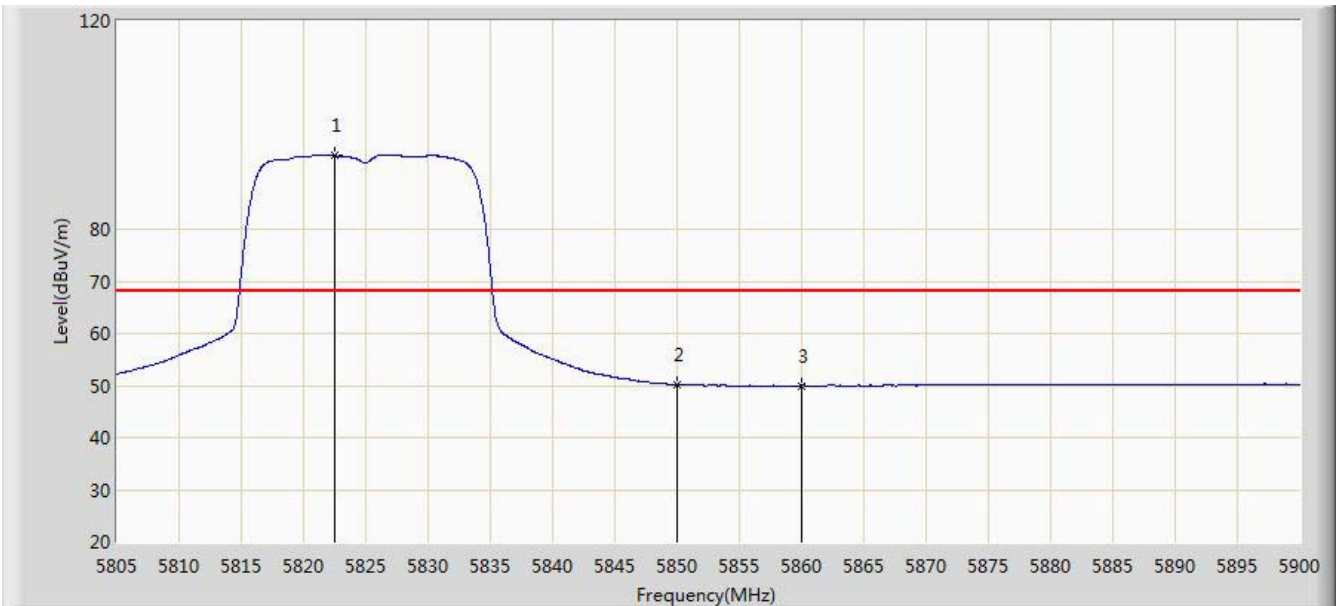


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5818.917	109.569	71.927	21.369	88.200	37.641	PK
2			5850.000	63.002	25.266	-25.198	88.200	37.736	PK
3			5860.000	62.479	24.705	-25.721	88.200	37.774	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:54
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 0 + 1	

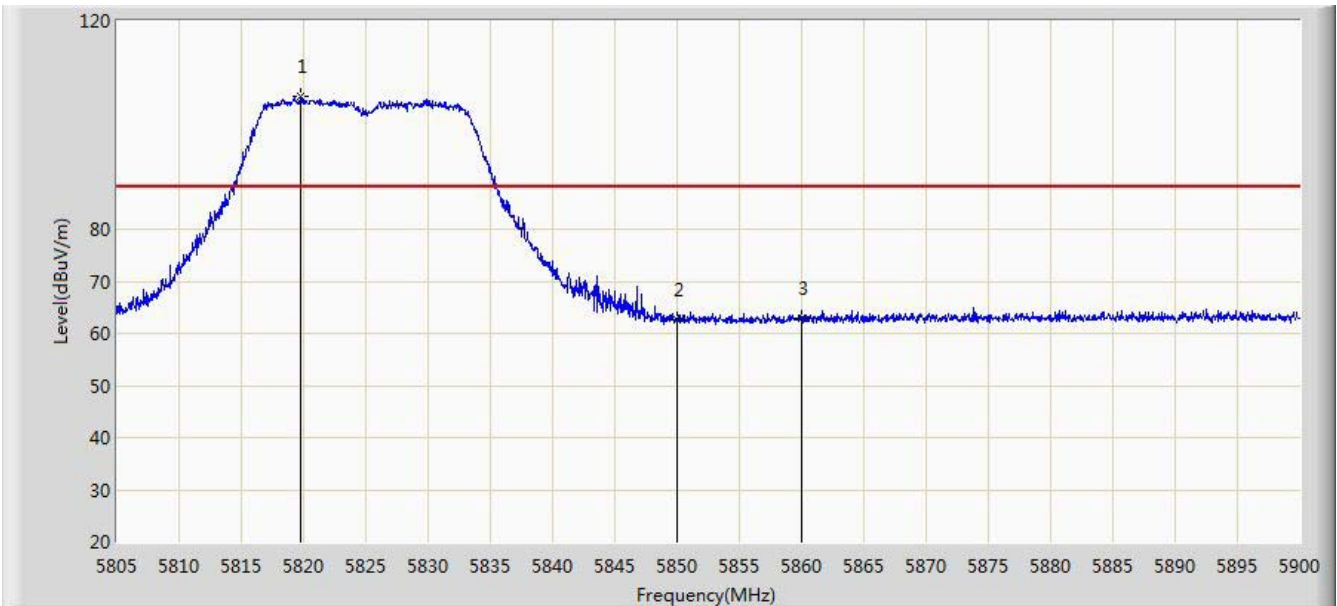


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5822.527	94.081	56.432	25.881	68.200	37.649	AV
2			5850.000	50.185	12.449	-18.015	68.200	37.736	AV
3			5860.000	49.984	12.210	-18.216	68.200	37.774	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:55
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 0 + 1	

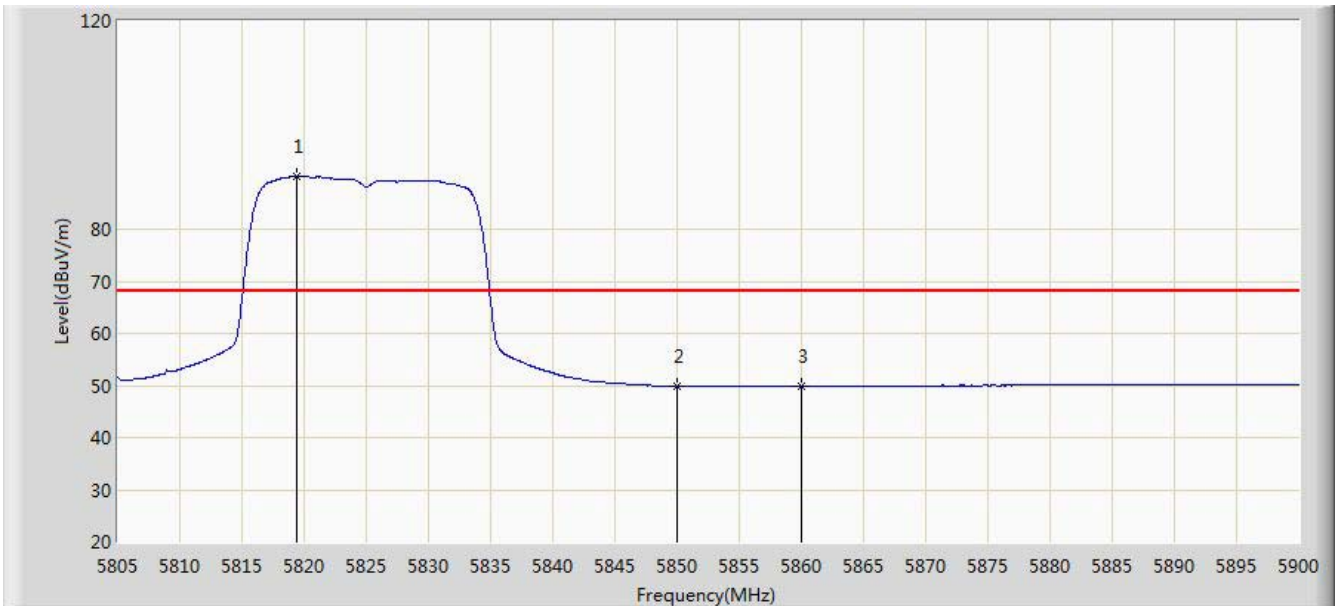


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.820	105.535	67.892	17.335	88.200	37.643	PK
2			5850.000	62.468	24.732	-25.732	88.200	37.736	PK
3			5860.000	62.759	24.985	-25.441	88.200	37.774	PK

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

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

Site: AC1	Time: 2014/12/02 - 16:57
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 0 + 1	

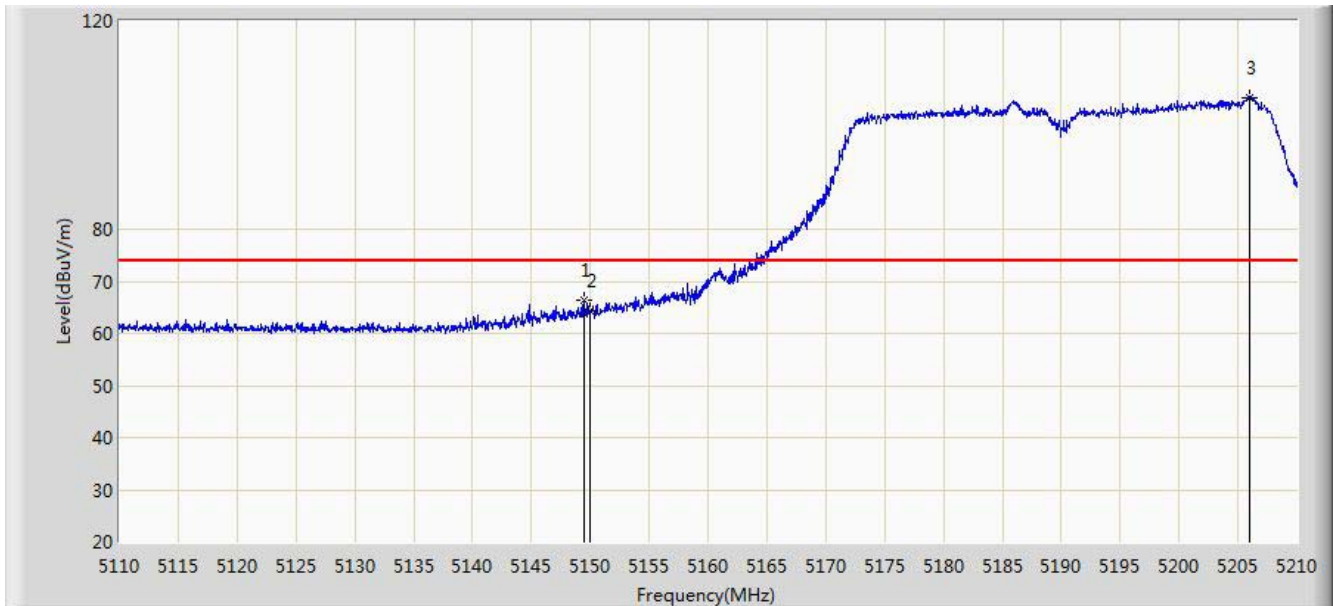


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.440	90.137	52.494	21.937	68.200	37.643	AV
2			5850.000	49.895	12.159	-18.305	68.200	37.736	AV
3			5860.000	49.826	12.052	-18.374	68.200	37.774	AV

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

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

Site: AC1	Time: 2014/12/02 - 16:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 0 + 1	

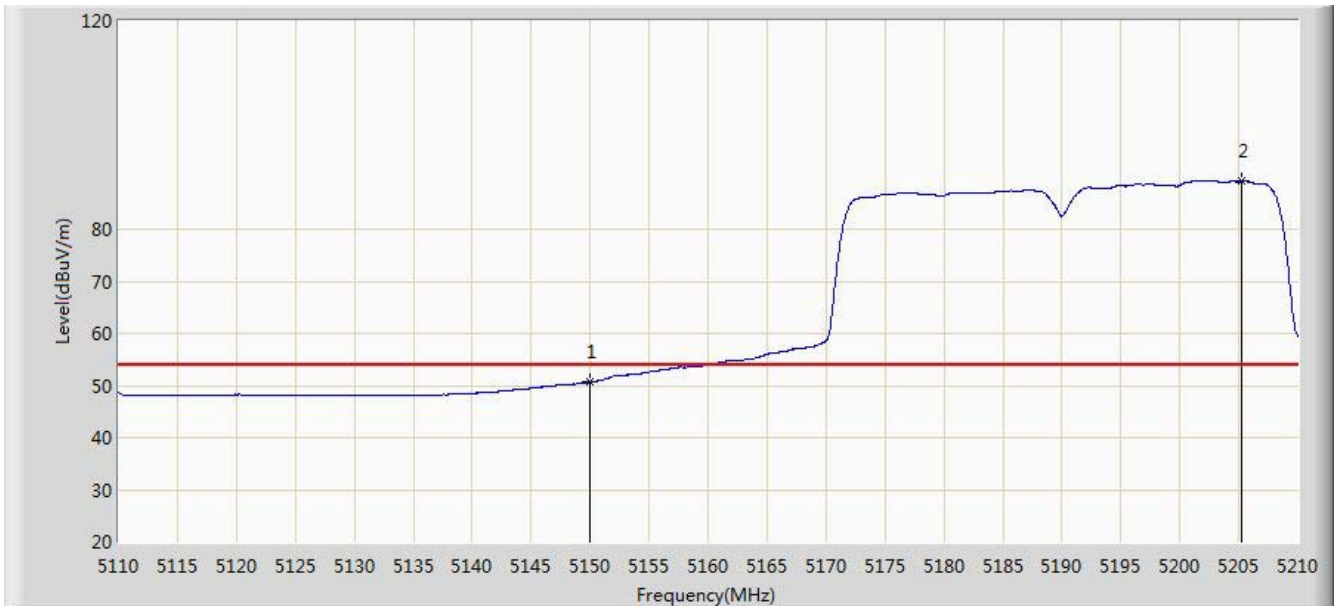


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.450	66.358	29.605	-7.642	74.000	36.753	PK
2			5150.000	64.434	27.682	-9.566	74.000	36.752	PK
3		*	5206.050	105.309	68.709	31.309	74.000	36.600	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 0 + 1	

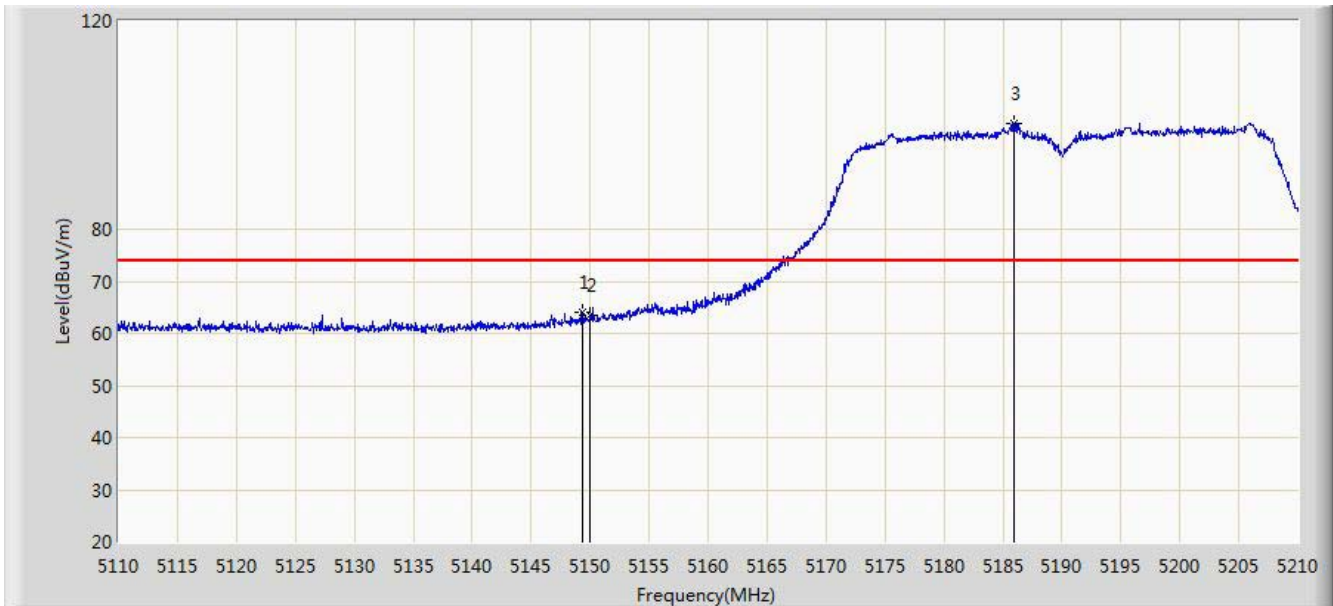


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.635	13.883	-3.365	54.000	36.752	AV
2		*	5205.300	89.242	52.640	35.242	54.000	36.601	AV

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

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

Site: AC1	Time: 2014/12/02 - 17:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 0 + 1	

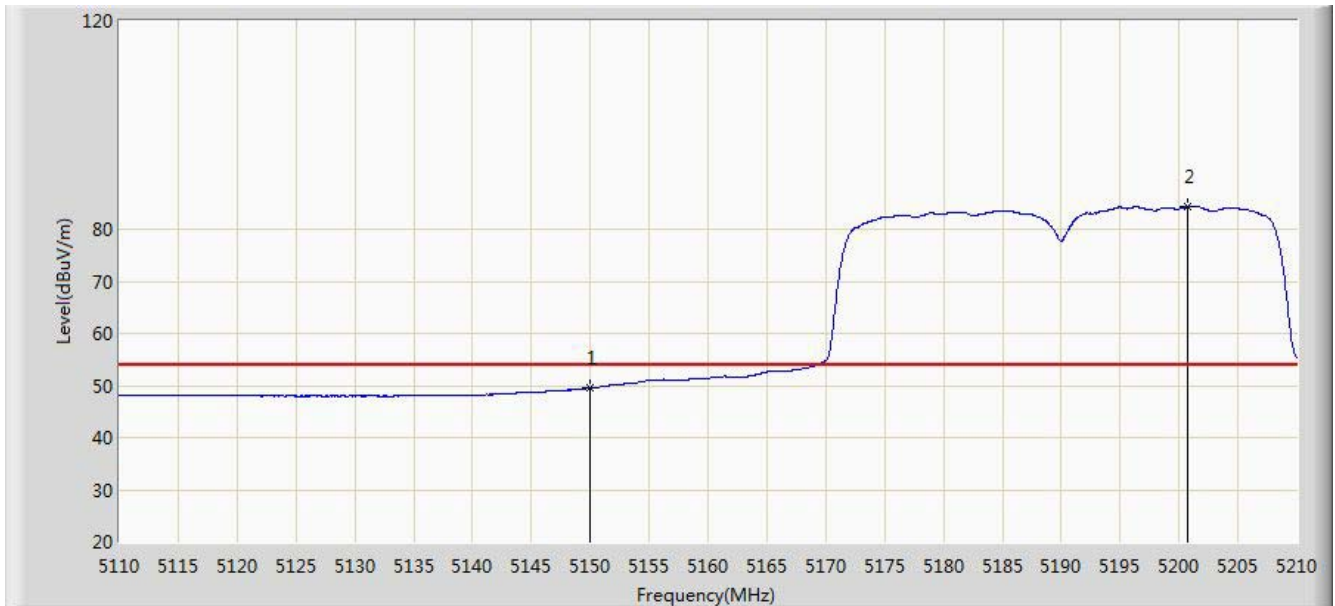


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.400	64.054	27.301	-9.946	74.000	36.753	PK
2			5150.000	63.381	26.629	-10.619	74.000	36.752	PK
3		*	5186.000	100.323	63.675	26.323	74.000	36.648	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 0 + 1	

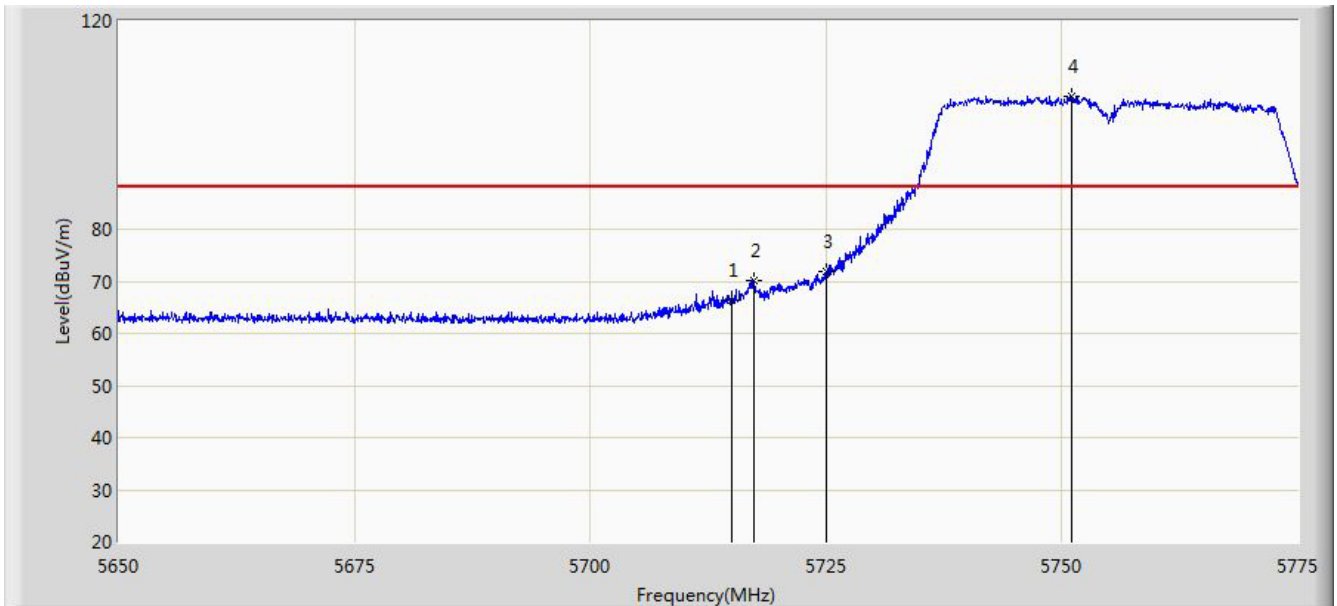


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.482	12.730	-4.518	54.000	36.752	AV
2		*	5200.750	84.275	47.664	30.275	54.000	36.611	AV

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

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

Site: AC1	Time: 2014/12/02 - 17:05
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 0 + 1	

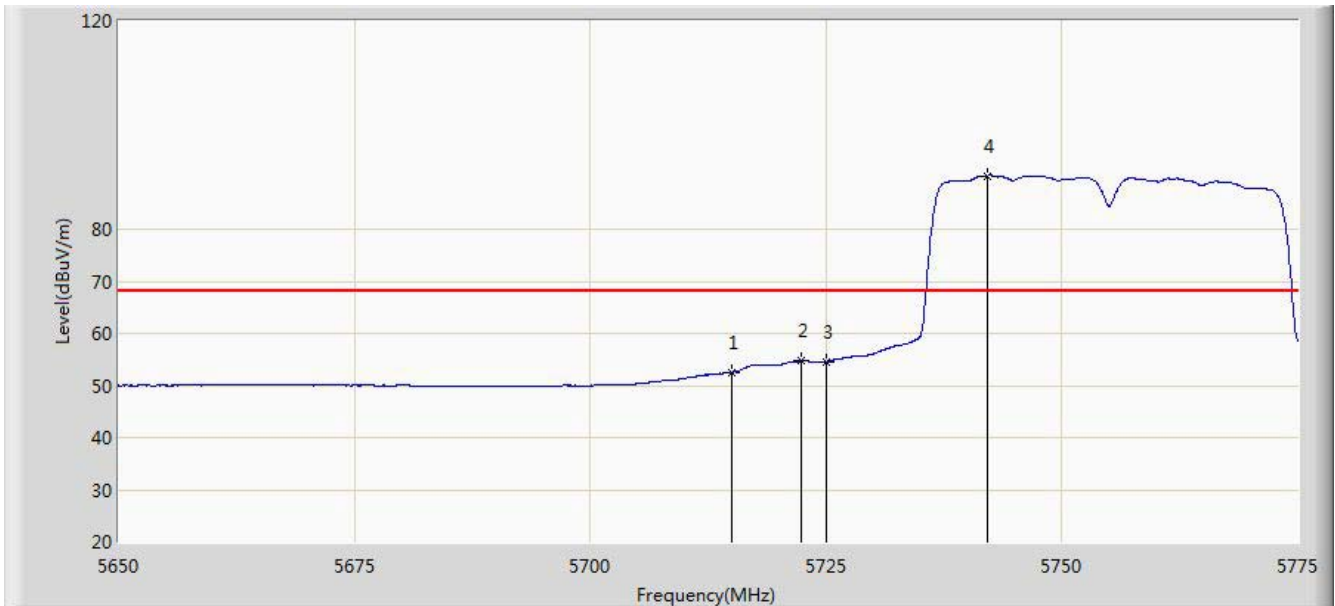


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	66.373	29.106	-21.827	88.200	37.267	PK
2			5717.375	70.014	32.738	-18.186	88.200	37.276	PK
3			5725.000	71.857	34.552	-16.343	88.200	37.305	PK
4		*	5751.000	105.516	68.108	17.316	88.200	37.409	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:20
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 0 + 1	

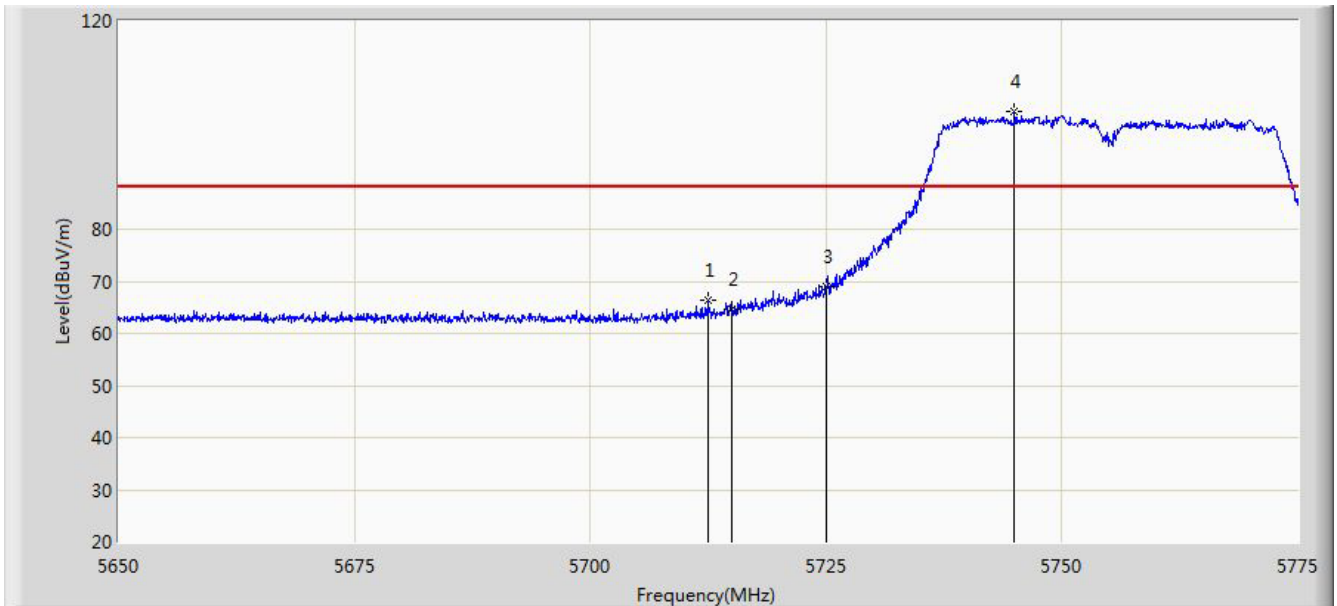


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	52.548	15.281	-15.652	68.200	37.267	AV
2			5722.437	54.779	17.484	-13.421	68.200	37.295	AV
3			5725.000	54.428	17.123	-13.772	68.200	37.305	AV
4		*	5742.062	90.232	52.859	22.032	68.200	37.373	AV

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

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

Site: AC1	Time: 2014/12/02 - 17:21
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 0 + 1	

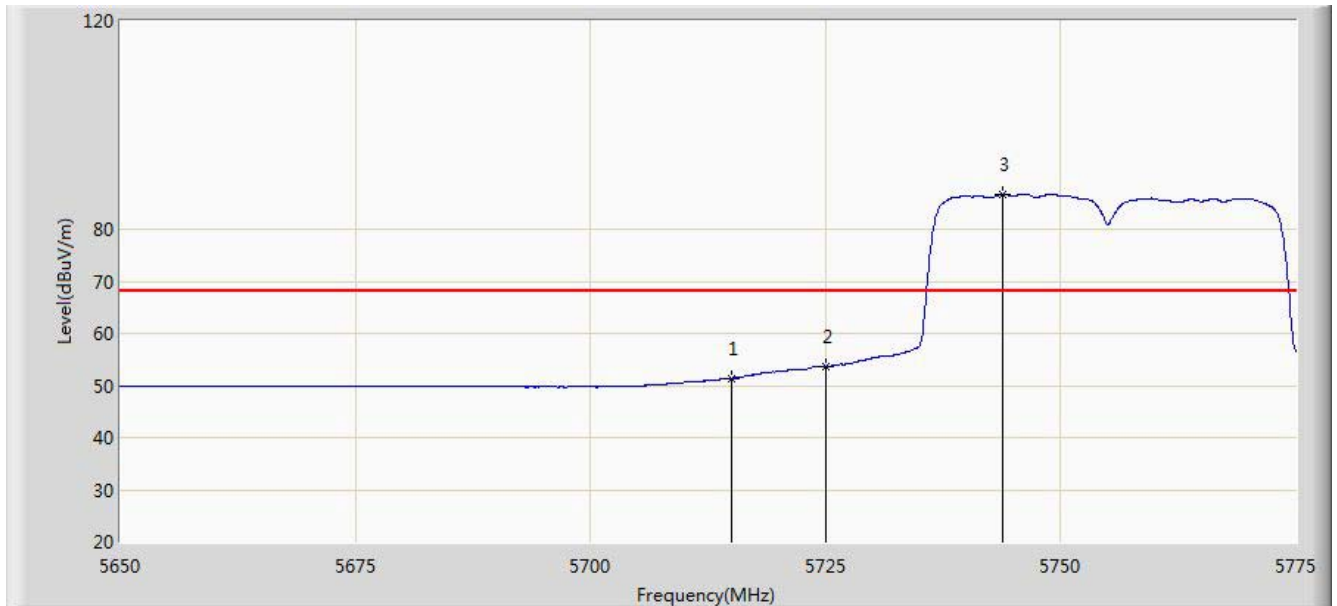


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5712.500	66.497	29.240	-21.703	88.200	37.257	PK
2			5715.000	64.711	27.444	-23.489	88.200	37.267	PK
3			5725.000	69.101	31.796	-19.099	88.200	37.305	PK
4		*	5745.000	102.526	65.142	14.326	88.200	37.384	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:23
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 0 + 1	

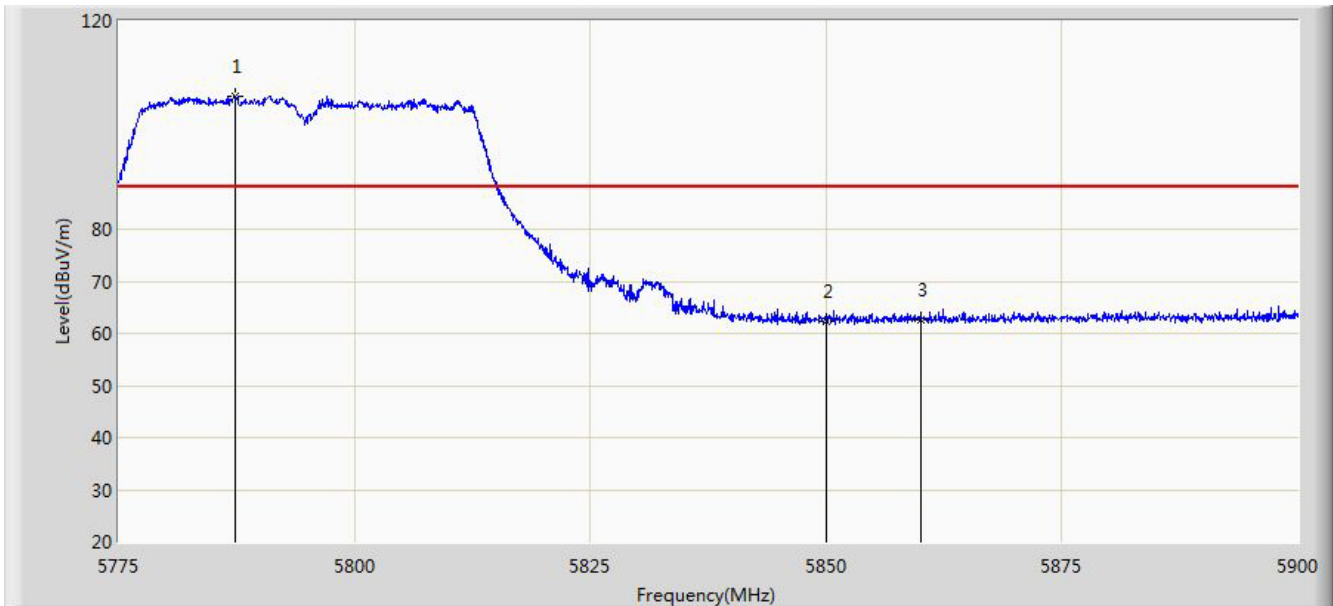


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.414	14.147	-16.786	68.200	37.267	AV
2			5725.000	53.521	16.216	-14.679	68.200	37.305	AV
3		*	5743.812	86.717	49.338	18.517	68.200	37.379	AV

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

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

Site: AC1	Time: 2014/12/02 - 17:25
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 0 + 1	

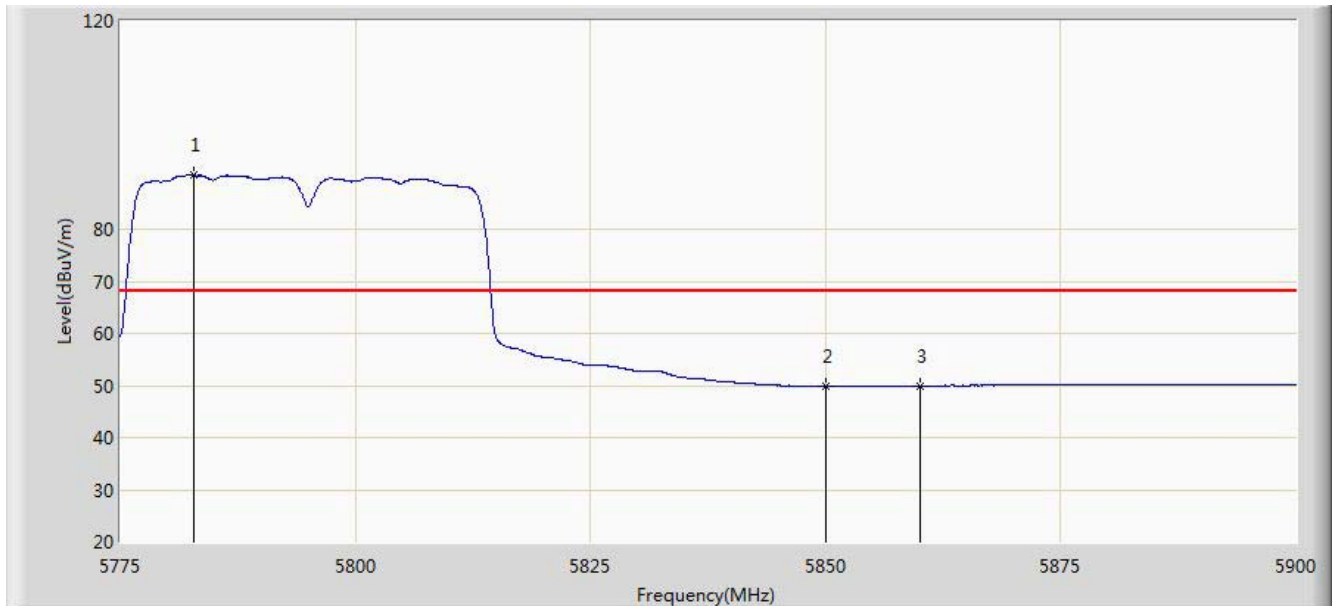


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5787.375	105.602	68.056	17.402	88.200	37.546	PK
2			5850.000	62.193	24.457	-26.007	88.200	37.736	PK
3			5860.000	62.580	24.806	-25.620	88.200	37.774	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:26
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 0 + 1	

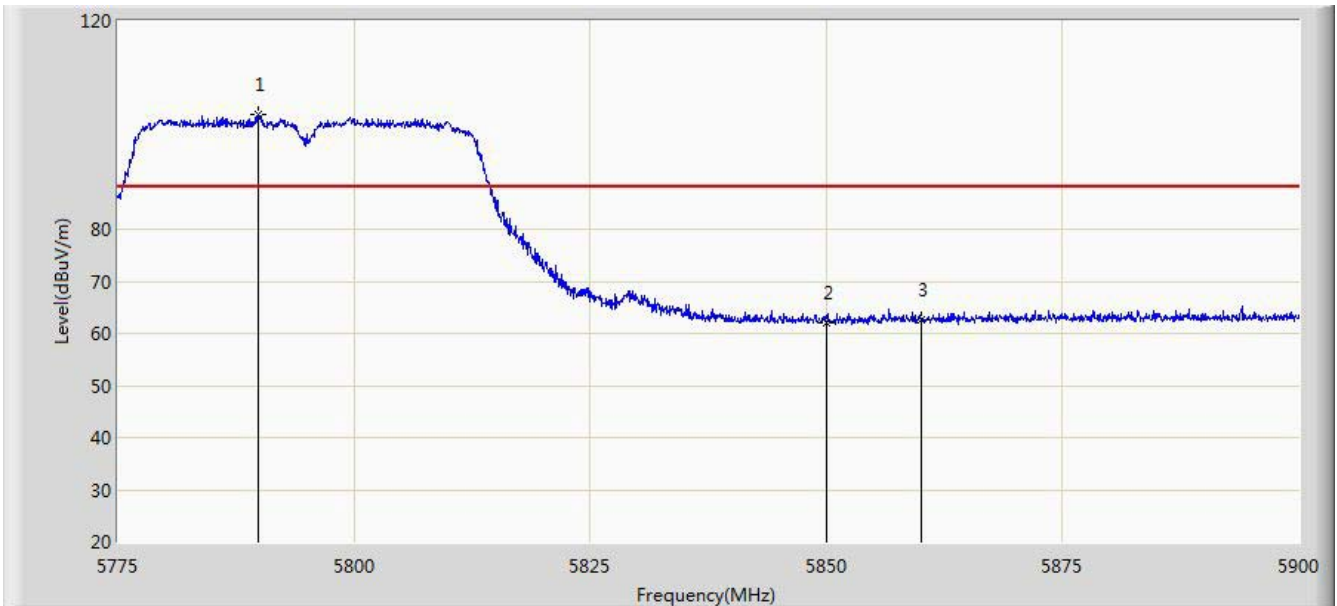


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5782.875	90.349	52.821	22.149	68.200	37.528	AV
2			5850.000	49.834	12.098	-18.366	68.200	37.736	AV
3			5860.000	49.975	12.201	-18.225	68.200	37.774	AV

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

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

Site: AC1	Time: 2014/12/02 - 17:27
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 0 + 1	

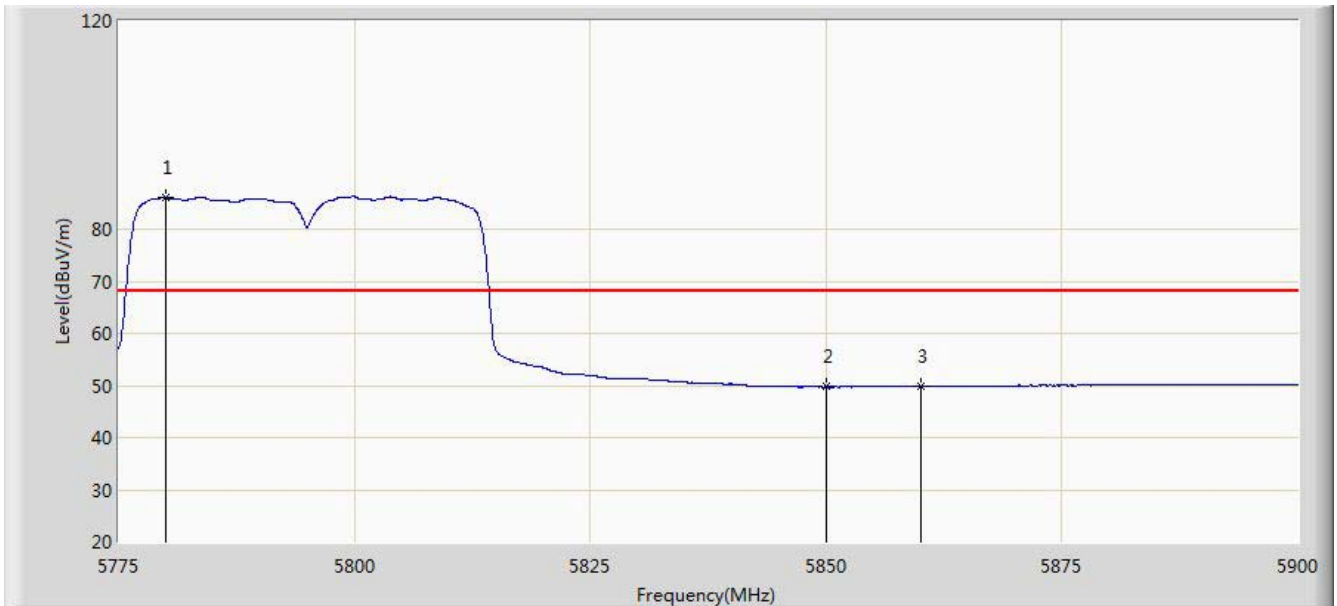


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5789.875	101.901	64.345	13.701	88.200	37.556	PK
2			5850.000	62.107	24.371	-26.093	88.200	37.736	PK
3			5860.000	62.701	24.927	-25.499	88.200	37.774	PK

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

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

Site: AC1	Time: 2014/12/02 - 17:29
Limit: FCC_Part15.407_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 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		*	5780.000	86.135	48.619	17.935	68.200	37.517	AV
2			5850.000	49.722	11.986	-18.478	68.200	37.736	AV
3			5860.000	49.842	12.068	-18.358	68.200	37.774	AV

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

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

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

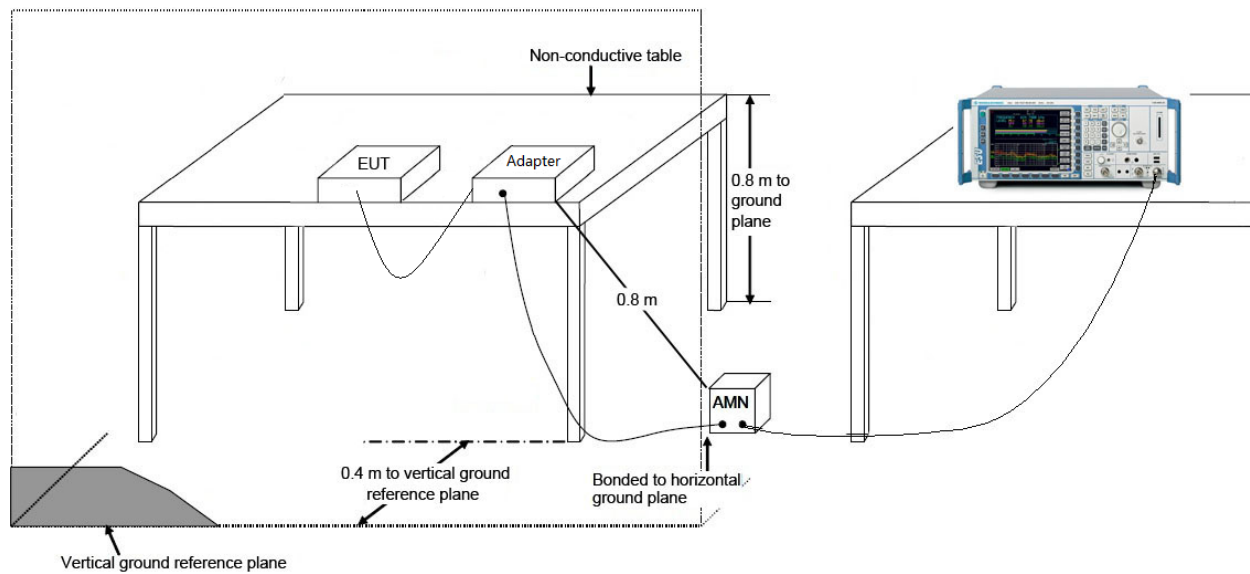
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

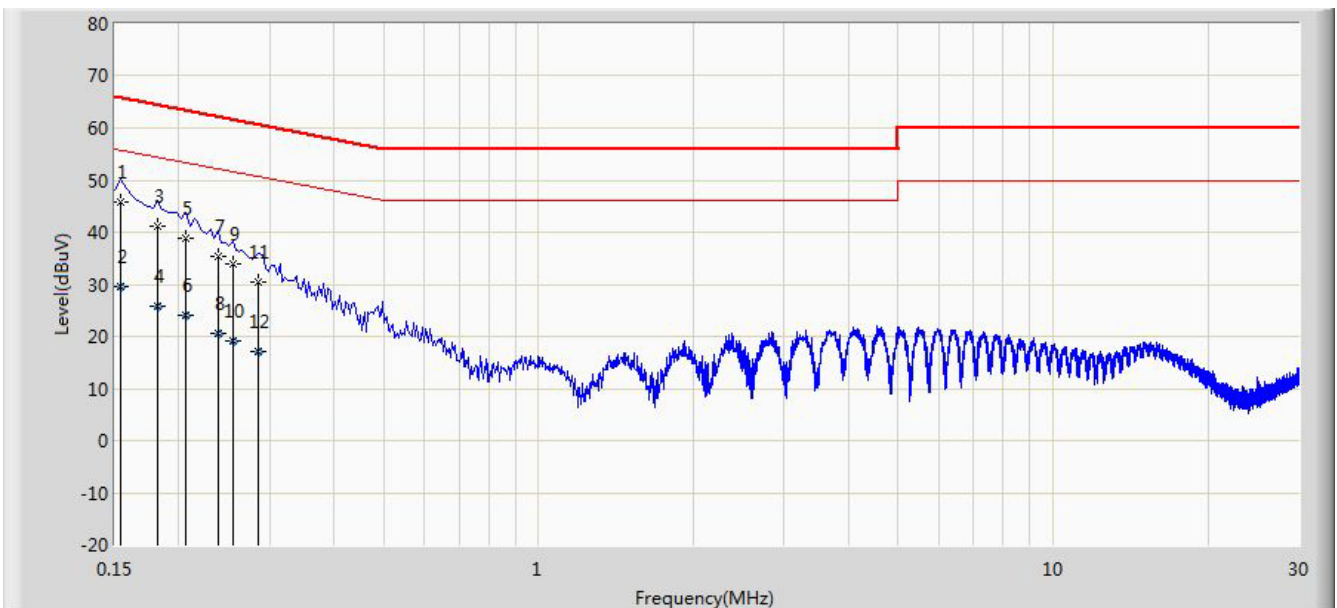
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.10.3. Test Setup



7.10.4. Test Result

Site: SR2	Time: 2014/11/21 - 18:38
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Note: Mode 1	

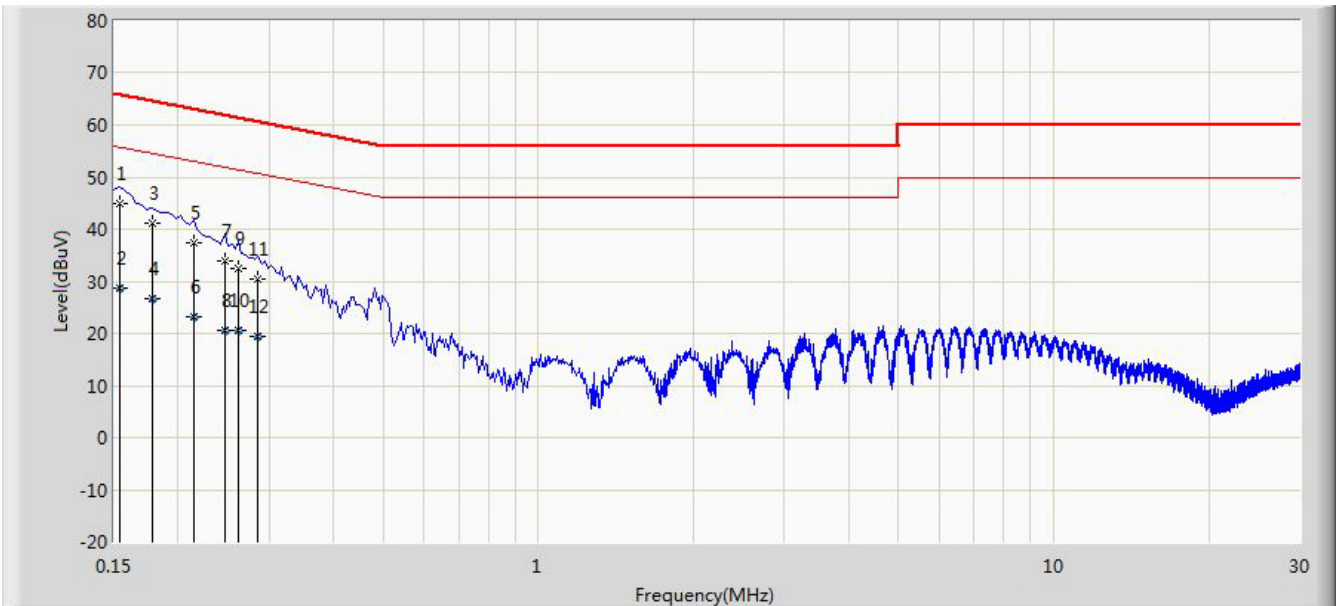


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.154	45.832	35.092	-19.950	65.781	10.740	QP
2			0.154	29.509	18.770	-26.272	55.781	10.740	AV
3			0.182	41.179	31.130	-23.215	64.394	10.048	QP
4			0.182	25.860	15.811	-28.534	54.394	10.048	AV
5			0.206	38.807	28.826	-24.558	63.365	9.981	QP
6			0.206	23.956	13.975	-29.409	53.365	9.981	AV
7			0.238	35.394	25.439	-26.772	62.166	9.954	QP
8			0.238	20.435	10.481	-31.731	52.166	9.954	AV
9			0.254	33.880	23.913	-27.745	61.625	9.967	QP
10			0.254	19.203	9.236	-32.422	51.625	9.967	AV
11			0.286	30.521	20.529	-30.118	60.640	9.993	QP
12			0.286	17.034	7.041	-33.606	50.640	9.993	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2014/11/21 - 18:42
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.154	45.034	34.318	-20.748	65.781	10.716	QP
2			0.154	28.836	18.120	-26.945	55.781	10.716	AV
3			0.178	41.187	31.137	-23.392	64.578	10.049	QP
4			0.178	26.725	16.675	-27.853	54.578	10.049	AV
5			0.214	37.248	27.260	-25.800	63.049	9.988	QP
6			0.214	23.138	13.150	-29.911	53.049	9.988	AV
7			0.246	33.948	23.950	-27.943	61.891	9.998	QP
8			0.246	20.559	10.561	-31.332	51.891	9.998	AV
9			0.262	32.431	22.421	-28.937	61.368	10.010	QP
10			0.262	20.595	10.585	-30.773	51.368	10.010	AV
11			0.286	30.319	20.291	-30.321	60.640	10.027	QP
12			0.286	19.306	9.279	-31.333	50.640	10.027	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **High performance dual band 2x2 802.11n indoor AP FCC ID: WF-122** is in compliance with Part 15E of the FCC Rules.