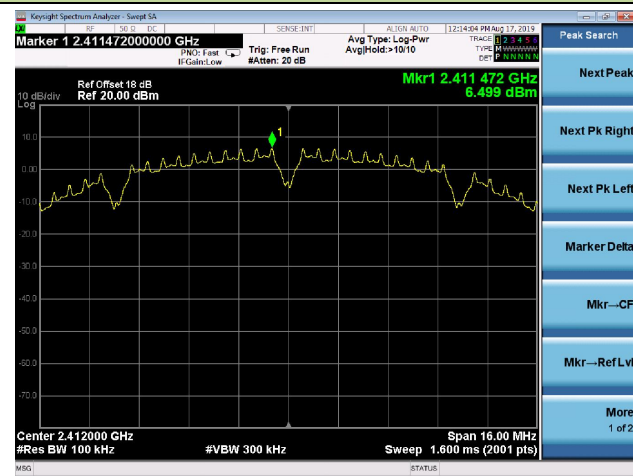


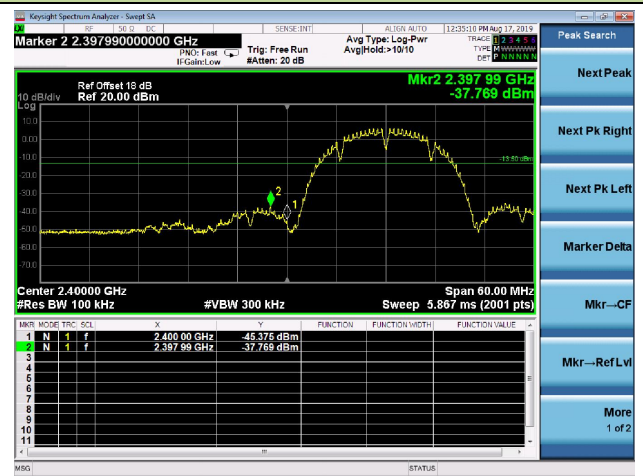
802.11b Out-of-Band Emissions

Channel 01 (2412MHz)

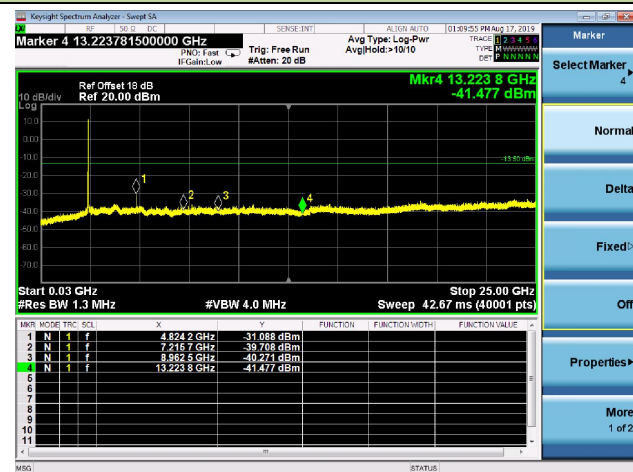
100kHz PSD Reference Level



Low Band Edge

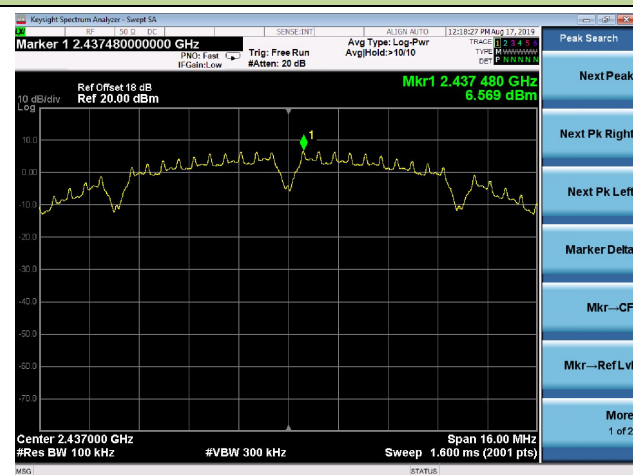


Spurious Emission

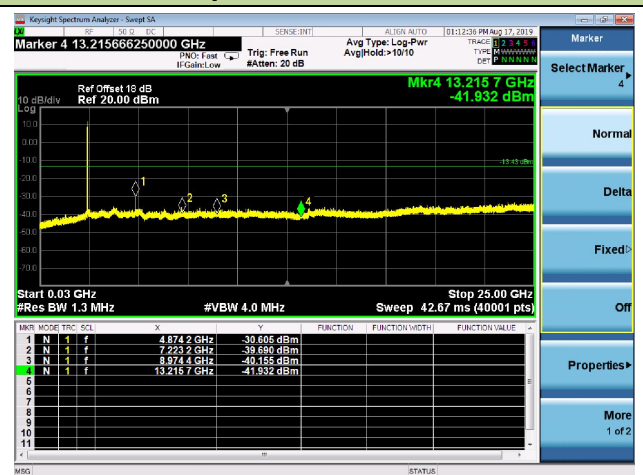


Channel 06 (2437MHz)

100kHz PSD Reference Level



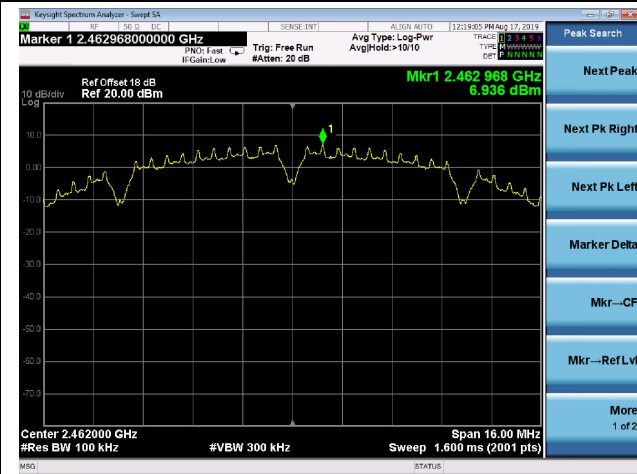
Spurious Emission



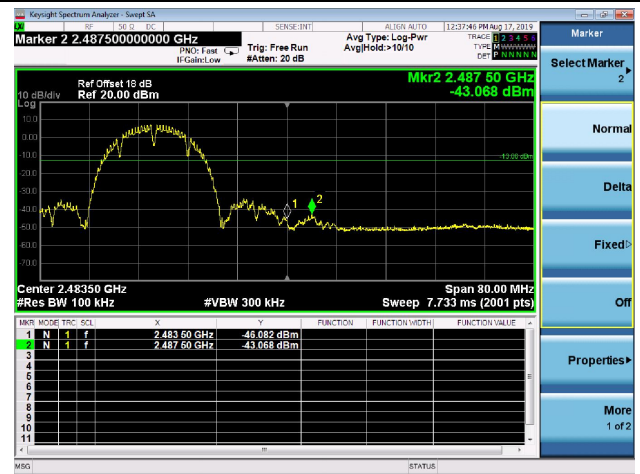
802.11b Out-of-Band Emissions

Channel 11 (2462MHz)

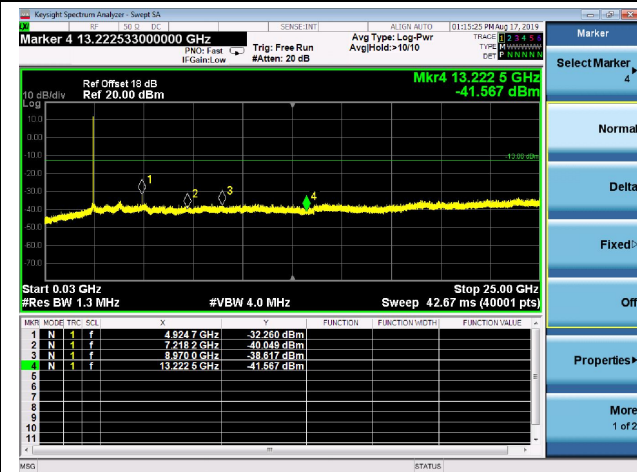
100kHz PSD Reference Level



High Band Edge



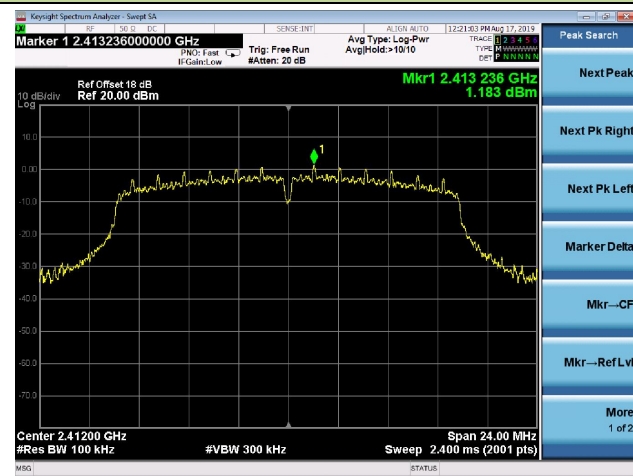
Spurious Emission



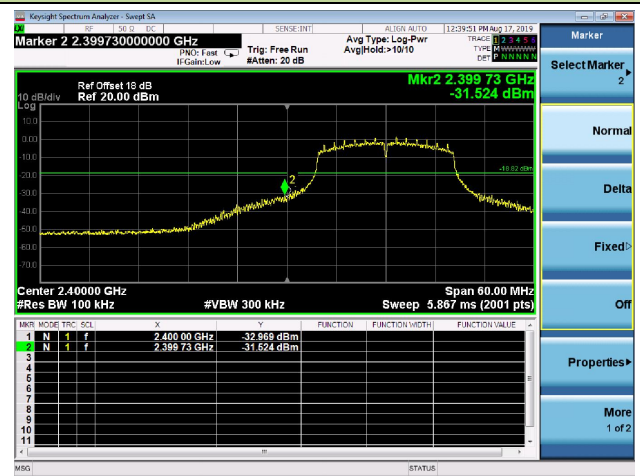
802.11g Out-of-Band Emissions

Channel 01 (2412MHz)

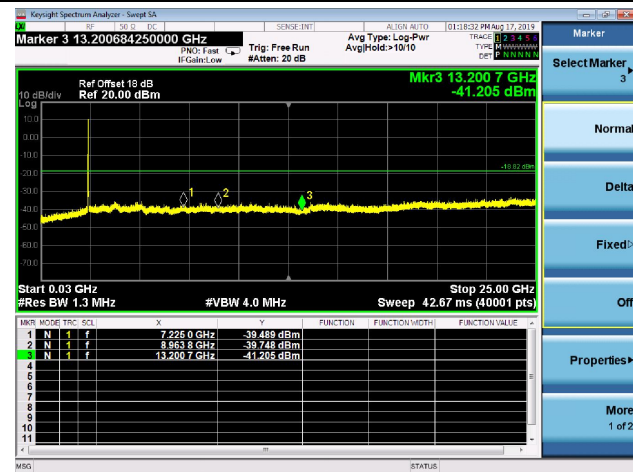
100kHz PSD Reference Level



Low Band Edge

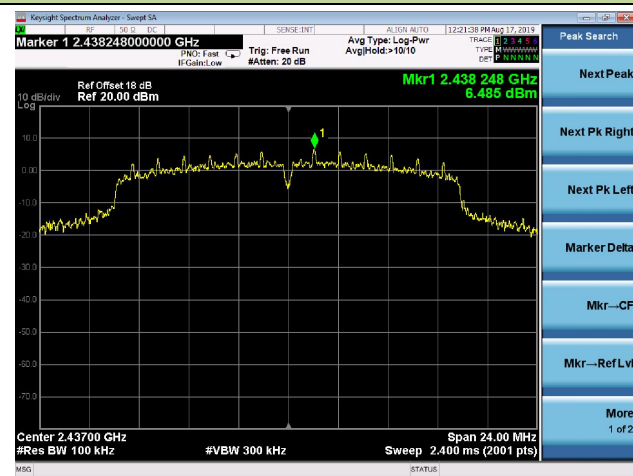


Spurious Emission

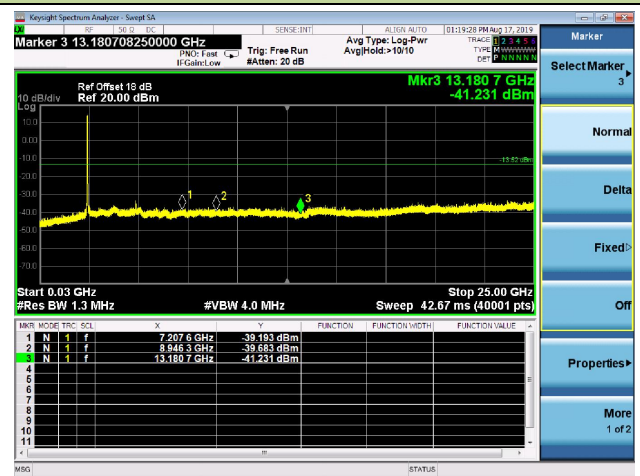


Channel 06 (2437MHz)

100kHz PSD Reference Level



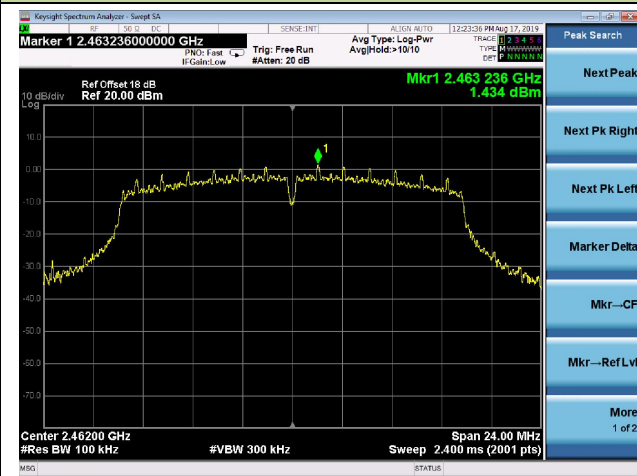
Spurious Emission



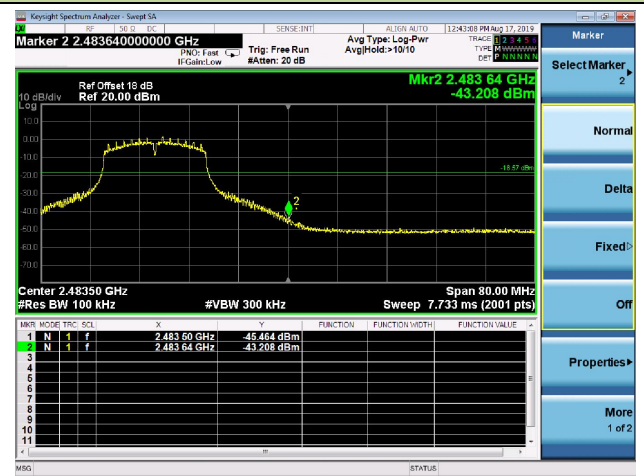
802.11g Out-of-Band Emissions

Channel 11 (2462MHz)

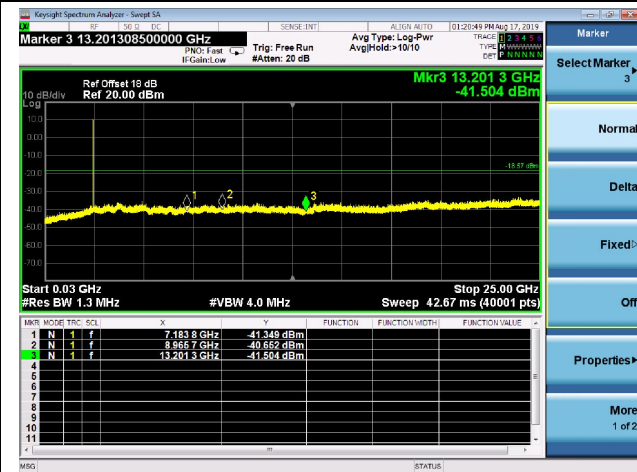
100kHz PSD Reference Level



High Band Edge



Spurious Emission



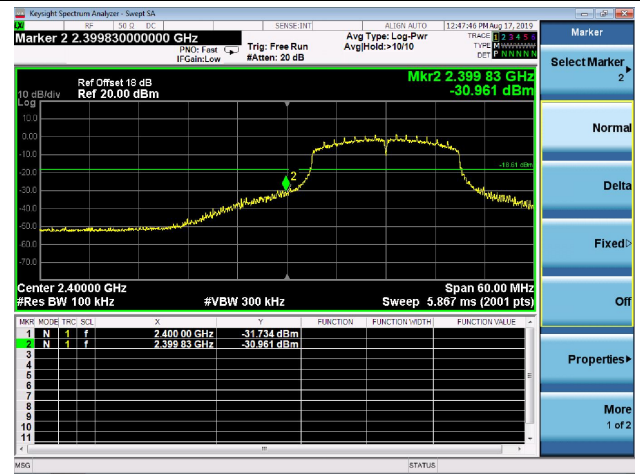
802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412MHz)

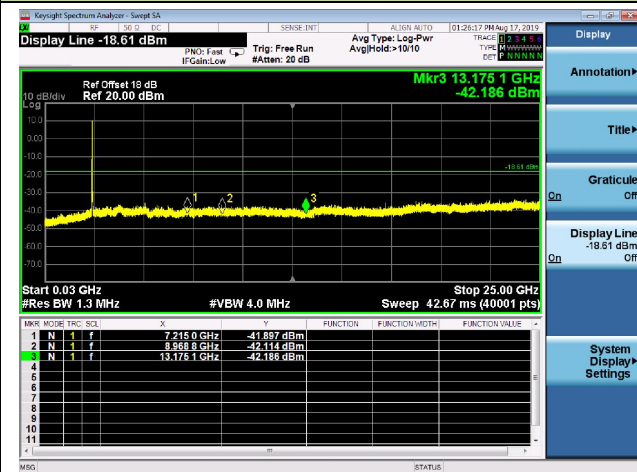
100kHz PSD Reference Level



Low Band Edge

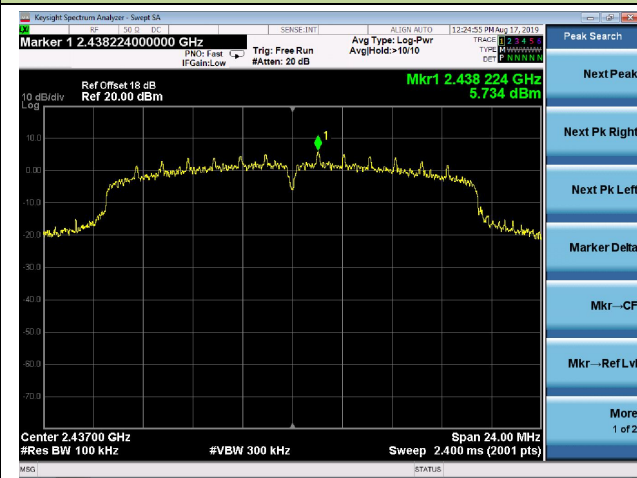


Spurious Emission

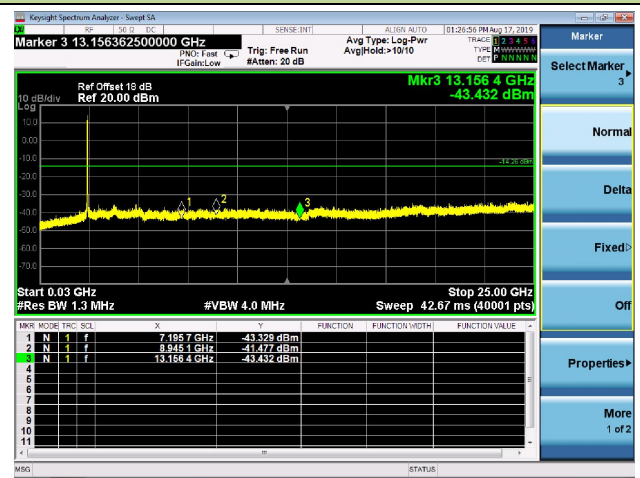


Channel 06 (2437MHz)

100kHz PSD Reference Level



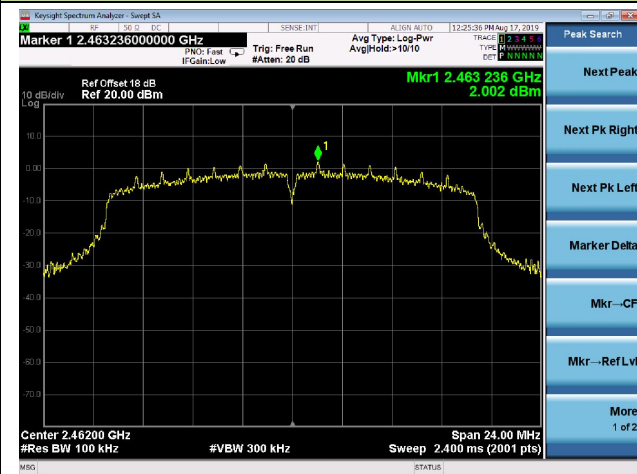
Spurious Emission



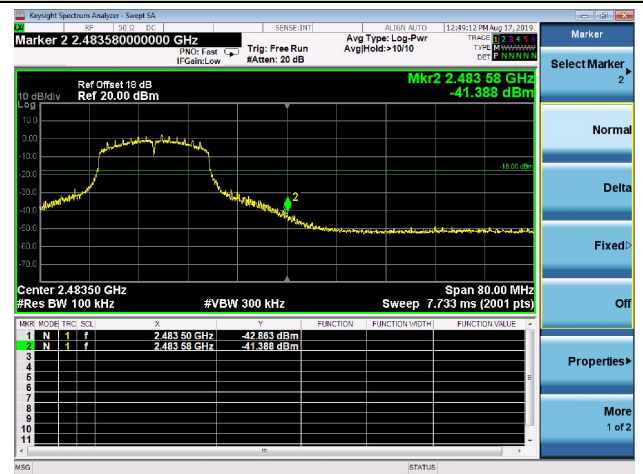
802.11n-HT20 Out-of-Band Emissions

Channel 11 (2462MHz)

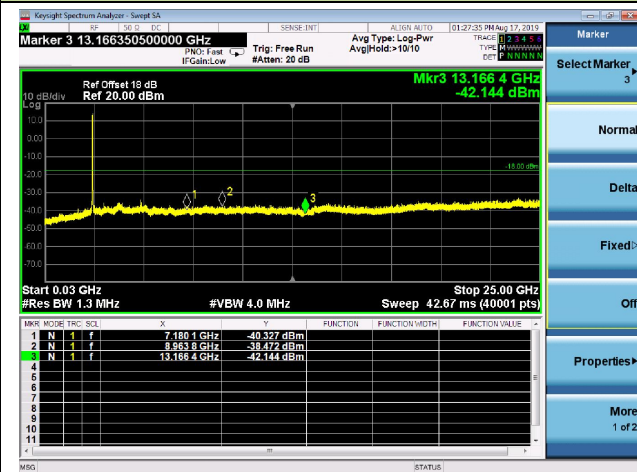
100kHz PSD Reference Level



High Band Edge



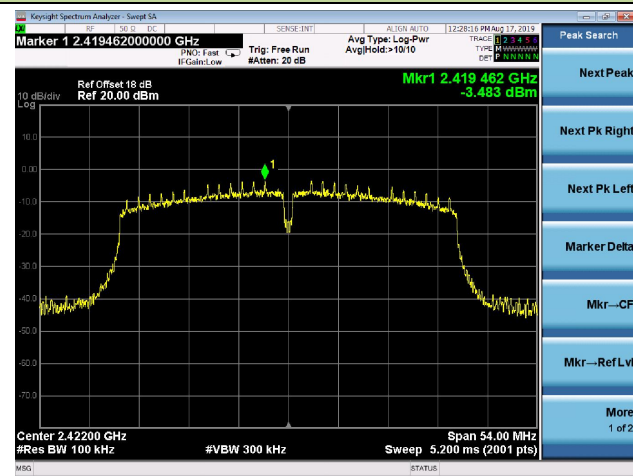
Spurious Emission



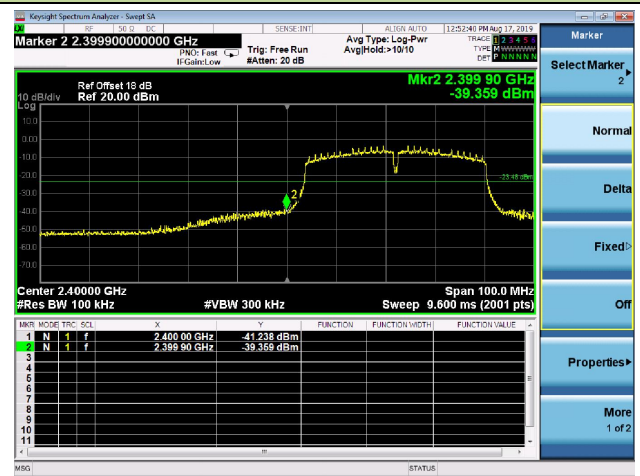
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

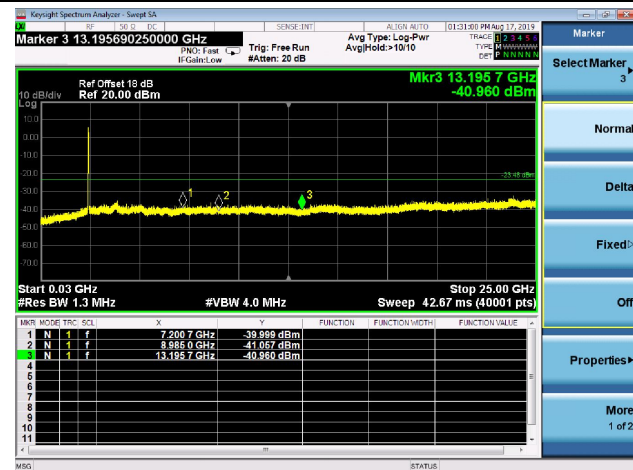
100kHz PSD Reference Level



Low Band Edge

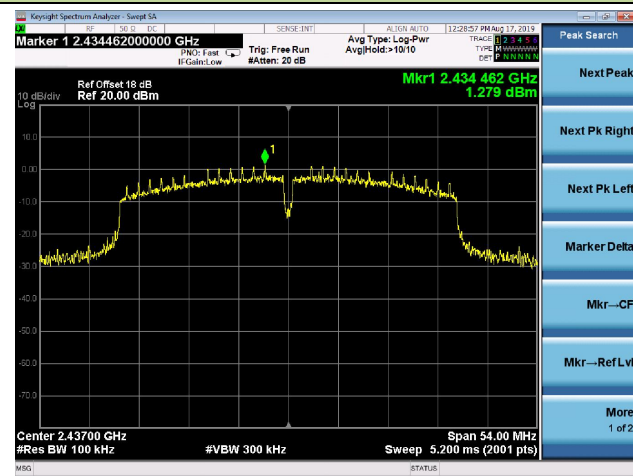


Spurious Emission

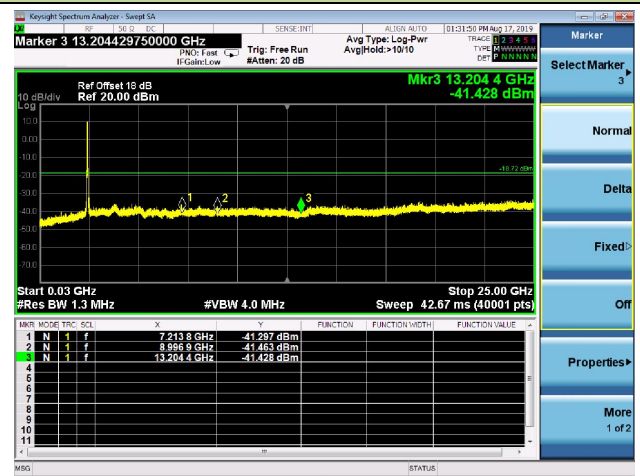


Channel 06 (2437MHz)

100kHz PSD Reference Level



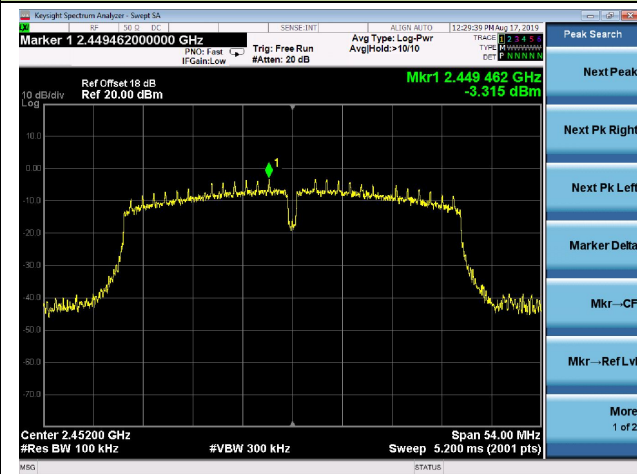
Spurious Emission



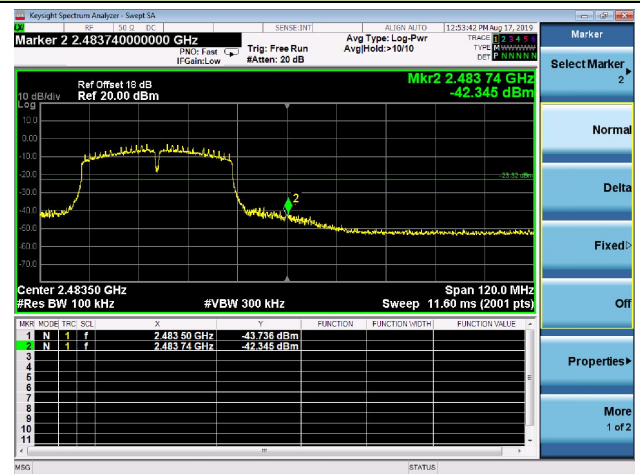
802.11n-HT40 Out-of-Band Emissions

Channel 09 (2452MHz)

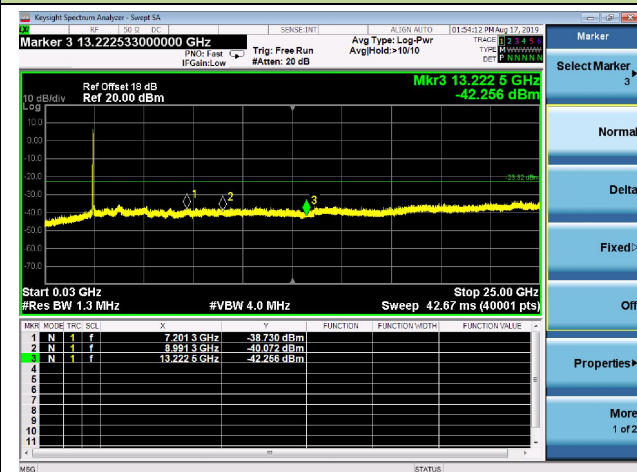
100kHz PSD Reference Level



High Band Edge



Spurious Emission



7.6. Radiated Spurious Emission Measurement

7.6.1. 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 [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

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

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

7.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

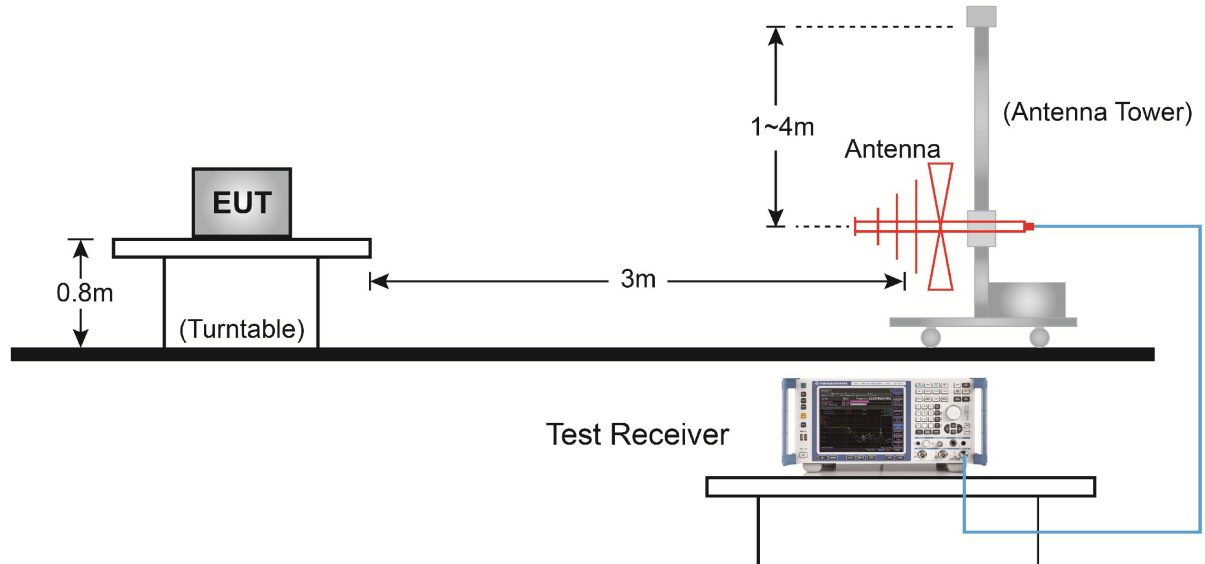
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

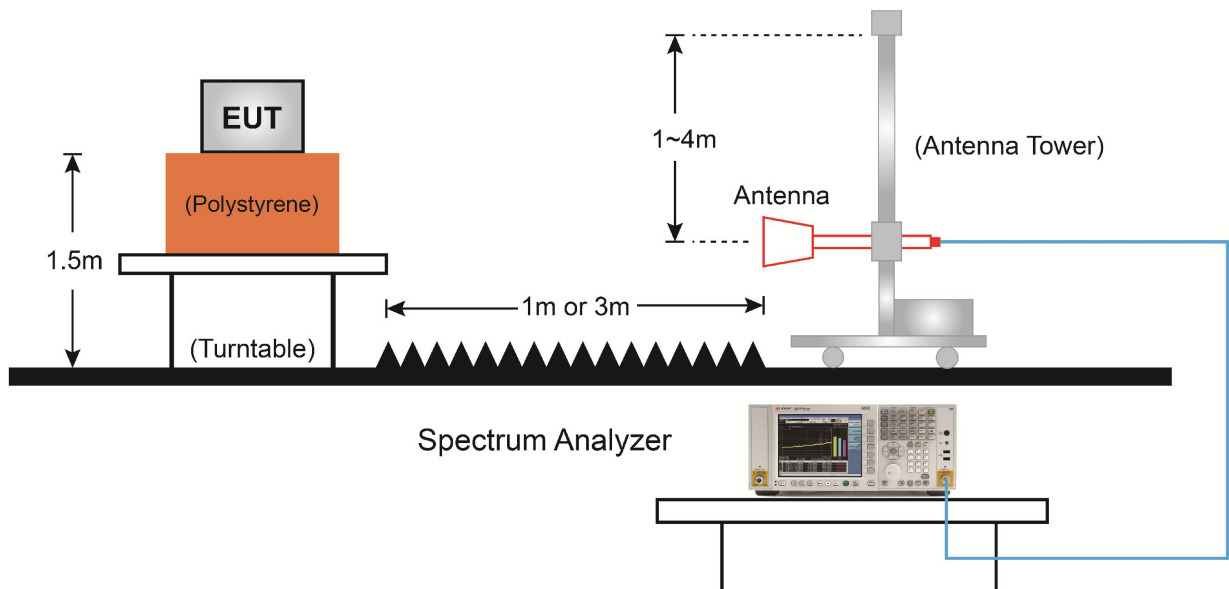
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.6.5. Test Result

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	01
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
	4060.0	36.6	2.7	39.3	74.0	-34.7	Peak	Horizontal
	4824.1	47.2	5.5	52.7	54.0	-1.3	Average	Horizontal
	4825.0	49.7	5.5	55.2	74.0	-18.8	Peak	Horizontal
*	6125.5	35.3	7.7	43.0	74.0	-31.0	Peak	Horizontal
*	6941.5	34.9	10.3	45.2	74.0	-28.8	Peak	Horizontal
	4221.5	38.4	3.2	41.6	74.0	-32.4	Peak	Vertical
	4824.0	45.7	5.5	51.2	54.0	-2.8	Average	Vertical
	4825.0	50.0	5.5	55.5	74.0	-18.5	Peak	Vertical
*	5887.5	34.3	7.5	41.8	74.0	-32.2	Peak	Vertical
*	6414.5	35.2	8.9	44.1	74.0	-29.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (91.8dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	06
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
	4221.5	38.2	3.2	41.4	74.0	-32.6	Peak	Horizontal
	4874.0	47.1	5.7	52.8	54.0	-1.2	Average	Horizontal
	4876.0	50.3	5.7	56.0	74.0	-18.0	Peak	Horizontal
*	6219.0	34.8	8.2	43.0	74.0	-31.0	Peak	Horizontal
*	6797.0	34.5	9.7	44.2	74.0	-29.8	Peak	Horizontal
	4221.5	36.7	3.2	39.9	74.0	-34.1	Peak	Vertical
	4874.1	47.4	5.7	53.1	54.0	-0.9	Average	Vertical
	4876.0	52.4	5.7	58.1	74.0	-15.9	Peak	Vertical
*	6100.0	35.8	7.6	43.4	74.0	-30.6	Peak	Vertical
*	7094.5	35.5	11.3	46.8	74.0	-27.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.1dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	11
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
	4221.5	36.4	3.2	39.6	74.0	-34.4	Peak	Horizontal
	4923.9	44.4	5.8	50.2	54.0	-3.8	Average	Horizontal
	4927.0	49.8	5.8	55.6	74.0	-18.4	Peak	Horizontal
*	6219.0	34.6	8.2	42.8	74.5	-31.7	Peak	Horizontal
*	6737.5	35.5	9.5	45.0	74.5	-29.5	Peak	Horizontal
	4221.5	37.4	3.2	40.6	74.0	-33.4	Peak	Vertical
	4924.2	44.4	5.8	50.2	54.0	-3.8	Average	Vertical
	4927.0	50.9	5.8	56.7	74.0	-17.3	Peak	Vertical
*	6151.0	35.2	7.9	43.1	74.5	-31.4	Peak	Vertical
*	6907.5	34.5	10.2	44.7	74.5	-29.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.5dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	01
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
	4221.5	36.3	3.2	39.5	74.0	-34.5	Peak	Horizontal
	4825.0	44.2	5.5	49.7	74.0	-24.3	Peak	Horizontal
*	5947.0	33.9	7.5	41.4	75.5	-34.1	Peak	Horizontal
*	6882.0	34.2	10.0	44.2	75.5	-31.3	Peak	Horizontal
	4085.5	35.4	2.7	38.1	74.0	-35.9	Peak	Vertical
	4825.0	44.8	5.5	50.3	74.0	-23.7	Peak	Vertical
*	6091.5	34.6	7.7	42.3	75.5	-33.2	Peak	Vertical
*	6465.5	33.5	9.3	42.8	75.5	-32.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.5dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	06
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
	4119.5	35.7	2.9	38.6	74.0	-35.4	Peak	Horizontal
	4876.0	42.8	5.7	48.5	74.0	-25.5	Peak	Horizontal
*	6236.0	34.7	8.0	42.7	76.5	-33.8	Peak	Horizontal
*	6695.0	34.8	9.5	44.3	76.5	-32.2	Peak	Horizontal
	4221.5	37.5	3.2	40.7	74.0	-33.3	Peak	Vertical
	4876.0	43.6	5.7	49.3	74.0	-24.7	Peak	Vertical
*	5777.0	34.6	7.2	41.8	76.5	-34.7	Peak	Vertical
*	6542.0	33.8	9.6	43.4	76.5	-33.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.5dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	11
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
	4221.5	37.2	3.2	40.4	74.0	-33.6	Peak	Horizontal
	4927.0	42.5	5.8	48.3	74.0	-25.7	Peak	Horizontal
*	6159.5	34.0	7.9	41.9	78.6	-36.7	Peak	Horizontal
*	7001.0	33.7	10.6	44.3	78.6	-34.3	Peak	Horizontal
	4221.5	36.1	3.2	39.3	74.0	-34.7	Peak	Vertical
	4927.0	42.6	5.8	48.4	74.0	-25.6	Peak	Vertical
*	5836.5	32.9	7.4	40.3	78.6	-38.3	Peak	Vertical
*	6567.5	34.4	9.5	43.9	78.6	-34.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.6dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	01
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
	4221.5	37.4	3.2	40.6	74.0	-33.4	Peak	Horizontal
	4825.0	44.6	5.5	50.1	74.0	-23.9	Peak	Horizontal
*	6244.5	34.9	8.1	43.0	74.5	-31.5	Peak	Horizontal
*	7086.0	33.7	11.2	44.9	74.5	-29.6	Peak	Horizontal
	4221.5	38.1	3.2	41.3	74.0	-32.7	Peak	Vertical
	4825.0	45.9	5.5	51.4	74.0	-22.6	Peak	Vertical
*	5666.5	34.6	6.7	41.3	74.5	-33.2	Peak	Vertical
*	6618.5	34.1	9.6	43.7	74.5	-30.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.5dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	06
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
	4221.5	37.1	3.2	40.3	74.0	-33.7	Peak	Horizontal
	4876.0	44.6	5.7	50.3	74.0	-23.7	Peak	Horizontal
*	6151.0	34.4	7.9	42.3	75.8	-33.5	Peak	Horizontal
*	6584.5	32.7	9.7	42.4	75.8	-33.4	Peak	Horizontal
	4247.0	37.3	3.3	40.6	74.0	-33.4	Peak	Vertical
	4876.0	44.6	5.7	50.3	74.0	-23.7	Peak	Vertical
*	5879.0	34.4	7.4	41.8	75.8	-34.0	Peak	Vertical
*	6669.5	35.2	9.6	44.8	75.8	-31.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.8dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	11
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
	4221.5	36.0	3.2	39.2	74.0	-34.8	Peak	Horizontal
	4927.0	41.7	5.8	47.5	74.0	-26.5	Peak	Horizontal
*	5734.5	33.2	6.9	40.1	78.8	-38.7	Peak	Horizontal
*	6406.0	34.4	9.0	43.4	78.8	-35.4	Peak	Horizontal
	3966.5	35.8	2.4	38.2	74.0	-35.8	Peak	Vertical
	4927.0	42.8	5.8	48.6	74.0	-25.4	Peak	Vertical
*	5768.5	34.7	7.2	41.9	78.8	-36.9	Peak	Vertical
*	6967.0	34.0	10.6	44.6	78.8	-34.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.8dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	03
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
	4221.5	37.6	3.2	40.8	74.0	-33.2	Peak	Horizontal
	4842.0	41.2	5.5	46.7	74.0	-27.3	Peak	Horizontal
*	6210.5	34.9	8.2	43.1	74.0	-30.9	Peak	Horizontal
*	6652.5	33.6	9.6	43.2	74.0	-30.8	Peak	Horizontal
	4221.5	37.8	3.2	41.0	74.0	-33.0	Peak	Vertical
	4850.5	41.3	5.6	46.9	74.0	-27.1	Peak	Vertical
*	6083.0	35.1	7.7	42.8	74.0	-31.2	Peak	Vertical
*	6474.0	34.5	9.4	43.9	74.0	-30.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.8dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	06
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
	4221.5	35.8	3.2	39.0	74.0	-35.0	Peak	Horizontal
	4876.0	41.5	5.7	47.2	74.0	-26.8	Peak	Horizontal
*	5768.5	34.4	7.2	41.6	74.0	-32.4	Peak	Horizontal
*	6584.5	33.5	9.7	43.2	74.0	-30.8	Peak	Horizontal
	4221.5	36.3	3.2	39.5	74.0	-34.5	Peak	Vertical
	4876.0	42.3	5.7	48.0	74.0	-26.0	Peak	Vertical
*	5811.0	32.6	7.1	39.7	74.0	-34.3	Peak	Vertical
*	6355.0	32.3	8.6	40.9	74.0	-33.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (92.1dBμV/m) or FCC 15.209 which is higher.

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

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

Product	Color Radio	Temperature	25°C
Test Engineer	Jason Gao	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	09
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
	4221.5	37.4	3.2	40.6	74.0	-33.4	Peak	Horizontal
	4901.5	41.6	5.7	47.3	74.0	-26.7	Peak	Horizontal
*	6015.0	34.5	7.5	42.0	74.0	-32.0	Peak	Horizontal
*	6678.0	34.6	9.5	44.1	74.0	-29.9	Peak	Horizontal
	4221.5	37.1	3.2	40.3	74.0	-33.7	Peak	Vertical
	4901.5	43.0	5.7	48.7	74.0	-25.3	Peak	Vertical
*	6091.5	35.4	7.7	43.1	74.0	-30.9	Peak	Vertical
*	6669.5	34.3	9.6	43.9	74.0	-30.1	Peak	Vertical

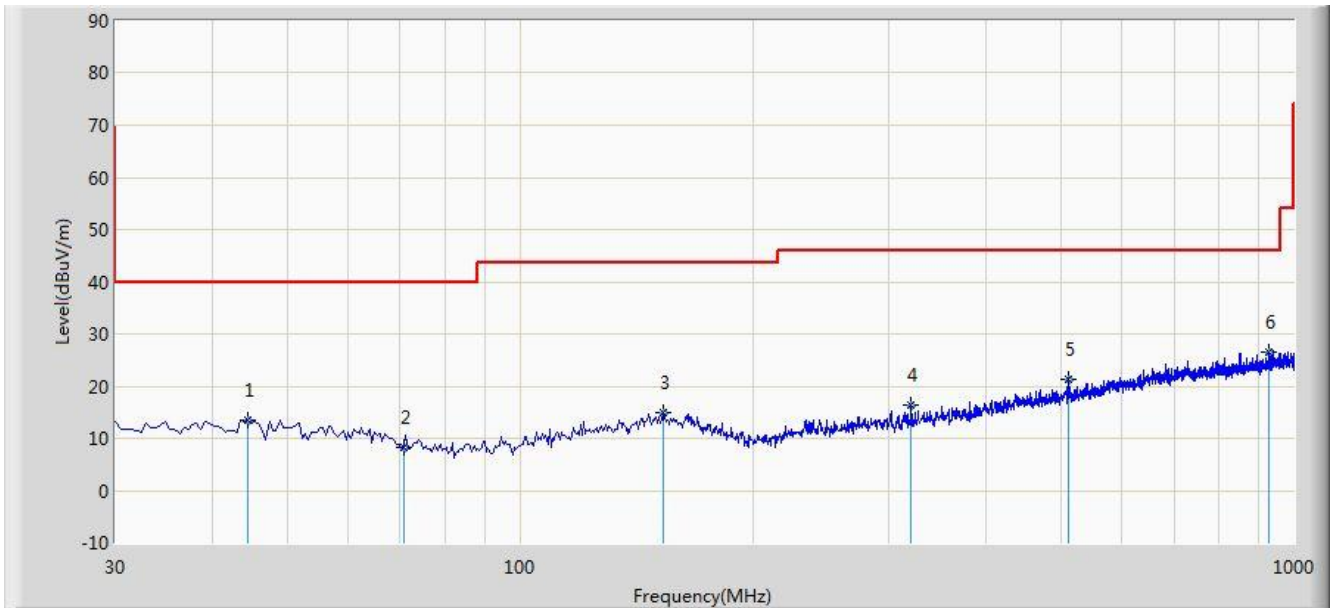
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.0dBμV/m) or FCC 15.209 which is higher.

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: 2019/08/16 - 19:31
Limit: FCC_Part15.209_RSE(3m)	Engineer: Jason Gao
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Worst Case Mode: Transmit by 802.11b at Channel 2437MHz	



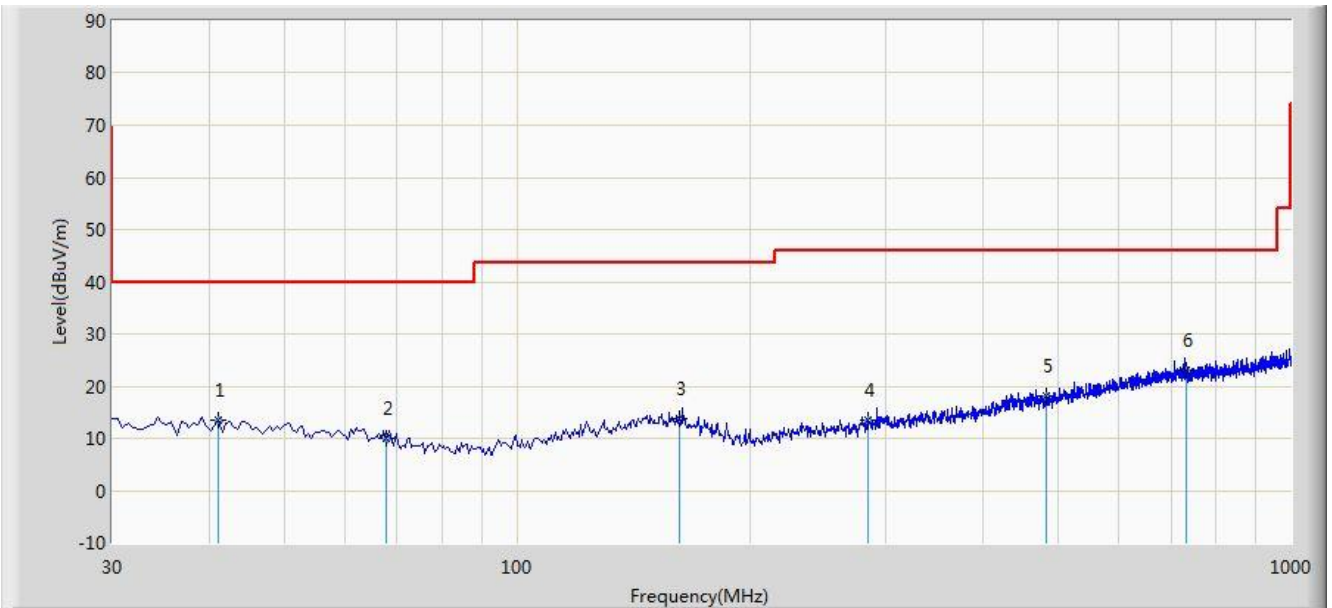
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		44.550	13.599	-0.785	-26.401	40.000	14.384	QP
2		70.740	8.216	-3.344	-31.784	40.000	11.560	QP
3		153.190	14.908	-0.493	-28.592	43.500	15.401	QP
4		320.030	16.298	1.215	-29.702	46.000	15.083	QP
5		511.120	21.171	2.068	-24.829	46.000	19.103	QP
6	*	927.735	26.599	1.456	-19.401	46.000	25.143	QP

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

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

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2019/08/16 - 19:33
Limit: FCC_Part15.209_RSE(3m)	Engineer: Jason Gao
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Worst Case Mode: Transmit by 802.11b at Channel 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		41.155	13.458	-1.143	-26.542	40.000	14.601	QP
2		67.830	9.938	-2.133	-30.062	40.000	12.071	QP
3		161.920	13.698	-1.536	-29.802	43.500	15.234	QP
4		284.625	13.607	-0.530	-32.393	46.000	14.137	QP
5		482.020	18.029	-0.442	-27.971	46.000	18.471	QP
6	*	733.250	23.027	0.117	-22.973	46.000	22.910	QP

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

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

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. 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	8.025 - 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 - 156.525	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	--	--	--

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

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

7.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

7.7.3.Test Setting

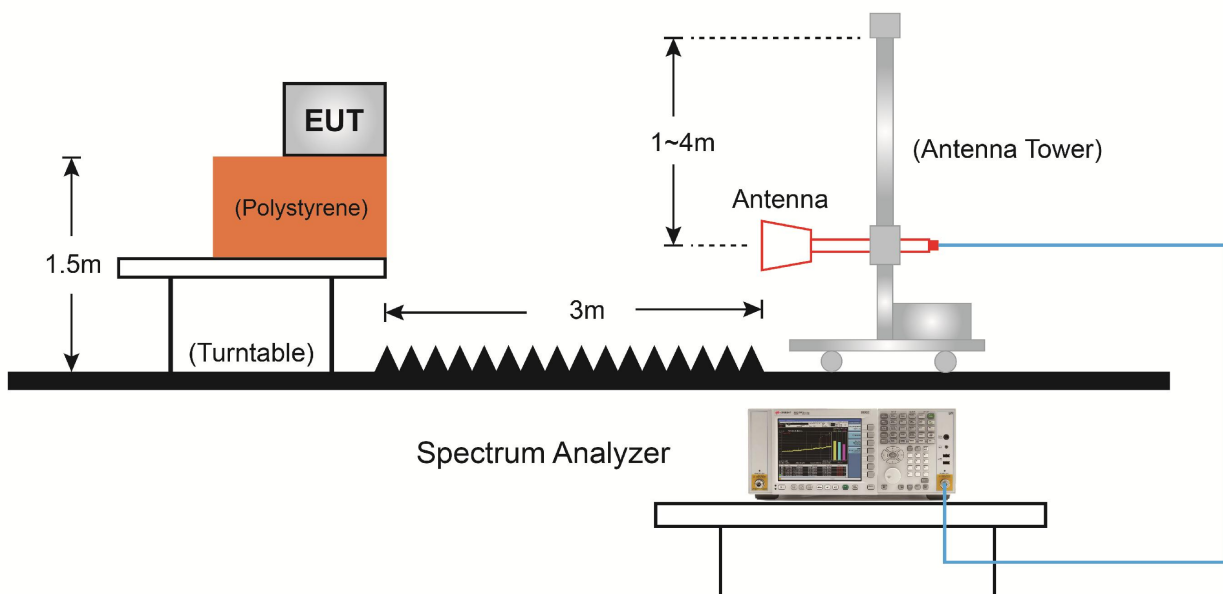
Peak Field Strength Measurements

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

Average Field Strength Measurements

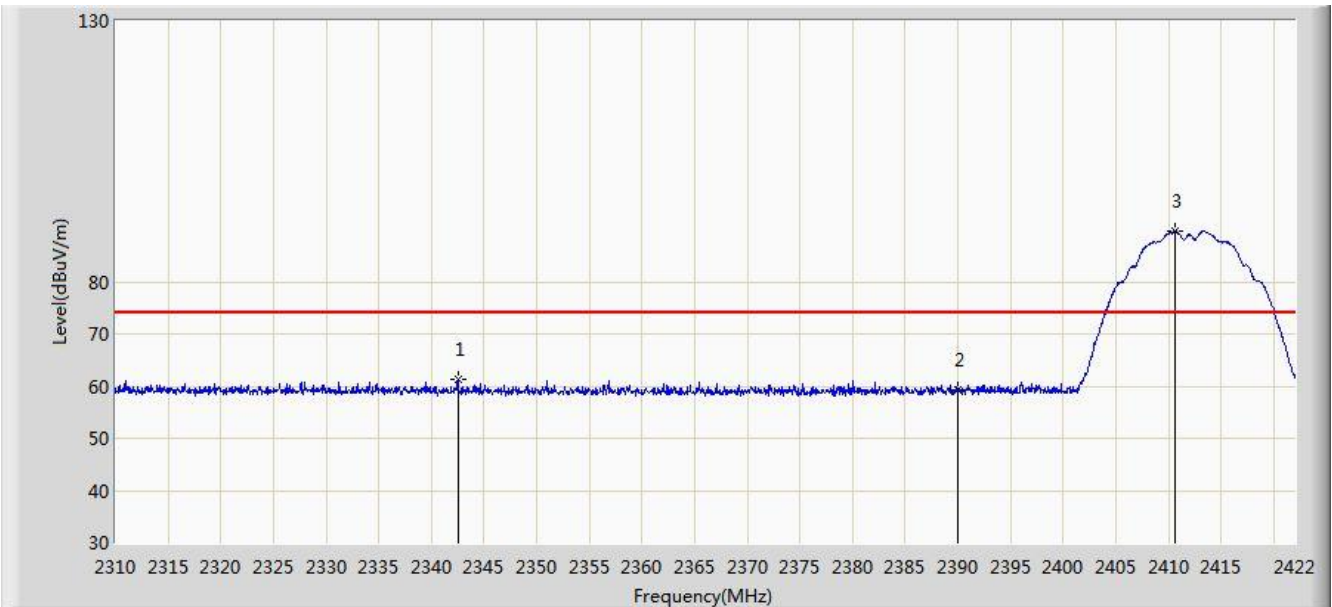
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4. Test Setup



7.7.5.Test Result

Site: AC1	Time: 2019/08/18 - 14:54
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2412MHz	

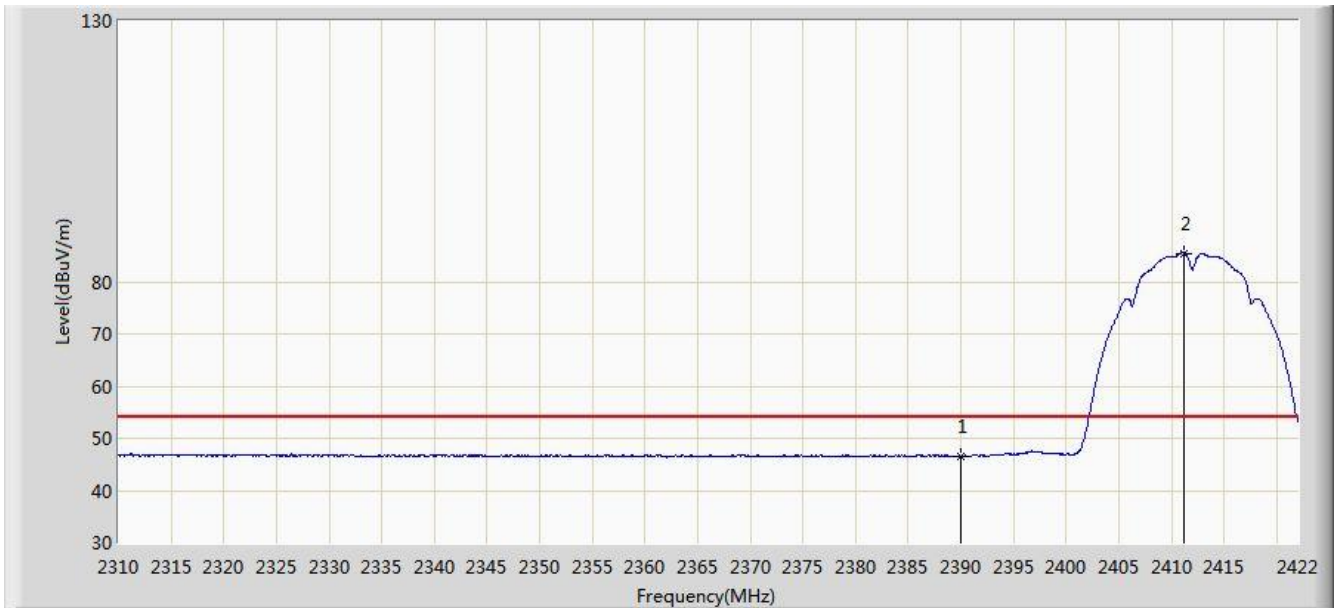


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2342.536	61.400	28.858	-12.600	74.000	32.542	PK
2			2390.000	59.291	26.878	-14.709	74.000	32.413	PK
3		*	2410.632	89.692	57.306	N/A	N/A	32.386	PK

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

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

Site: AC1	Time: 2019/08/18 - 14:56
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2412MHz	

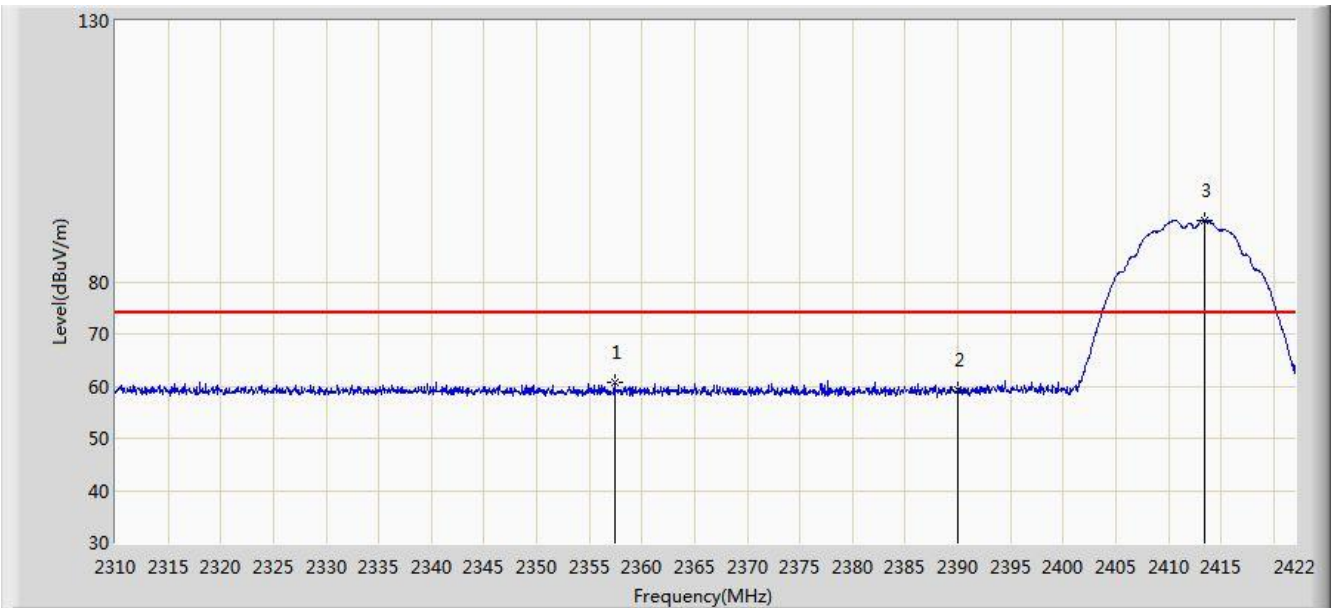


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.568	14.155	-7.432	54.000	32.413	AV
2		*	2411.136	85.494	53.109	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/08/18 - 14:56
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2412MHz	

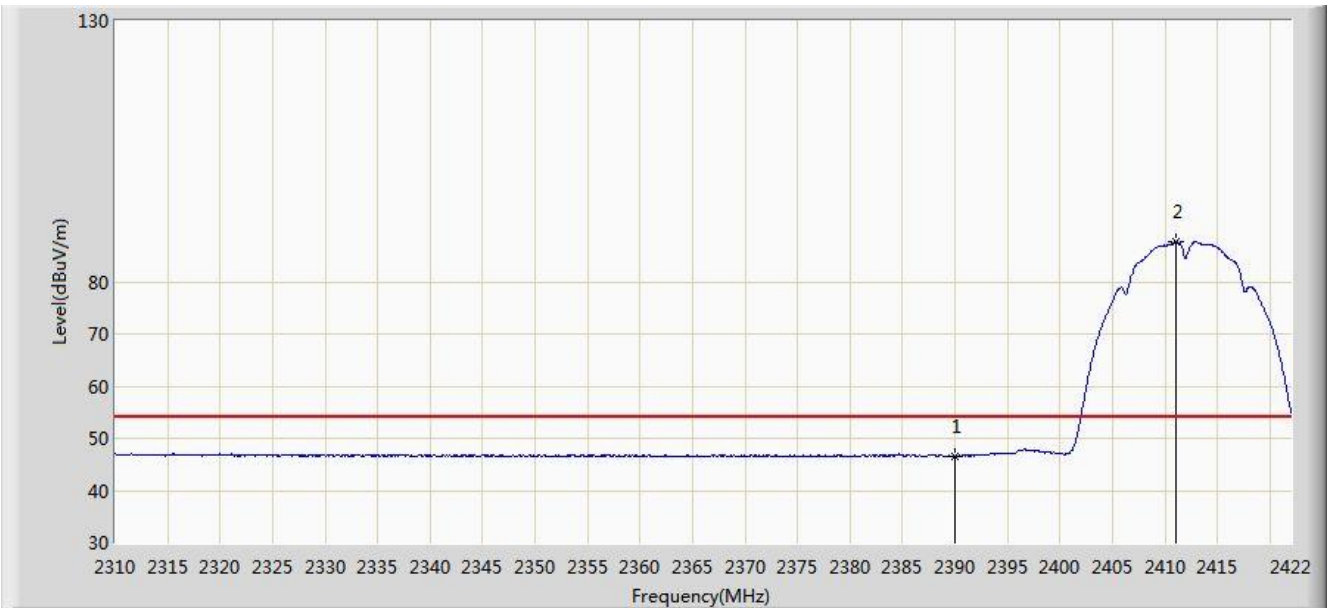


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2357.376	60.599	28.117	-13.401	74.000	32.482	PK
2			2390.000	59.195	26.782	-14.805	74.000	32.413	PK
3		*	2413.432	91.837	59.454	N/A	N/A	32.383	PK

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

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

Site: AC1	Time: 2019/08/18 - 14:57
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2412MHz	

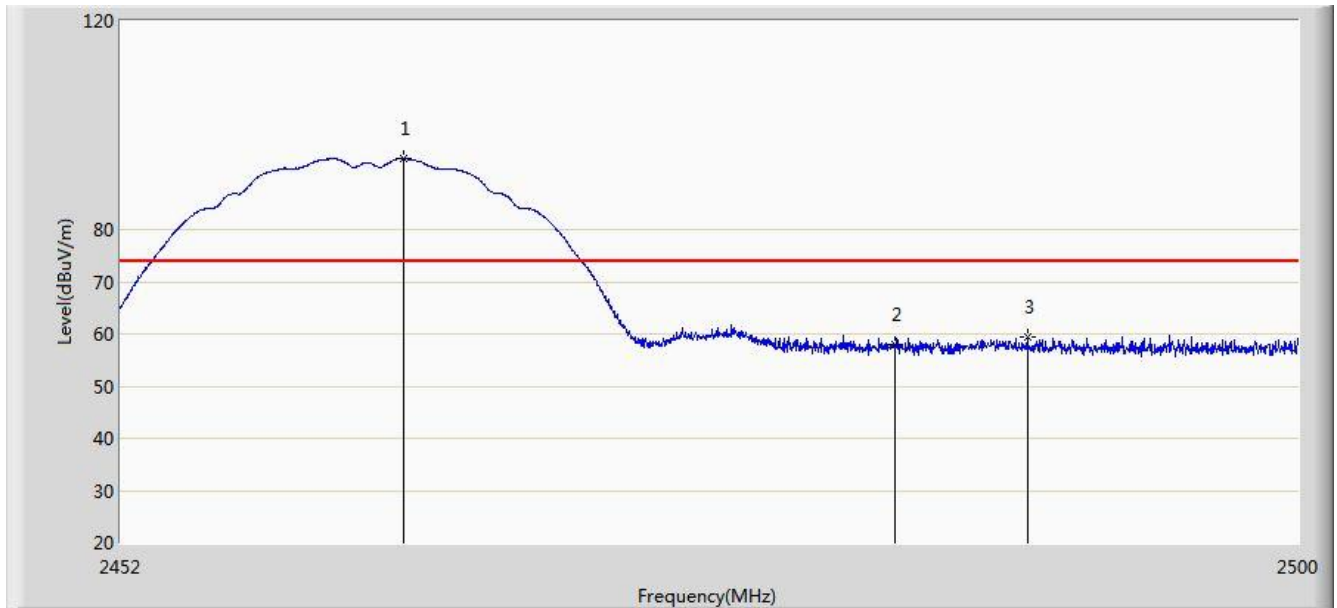


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.533	14.120	-7.467	54.000	32.413	AV
2		*	2411.080	87.728	55.343	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/08/17 - 11:56
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2462MHz	

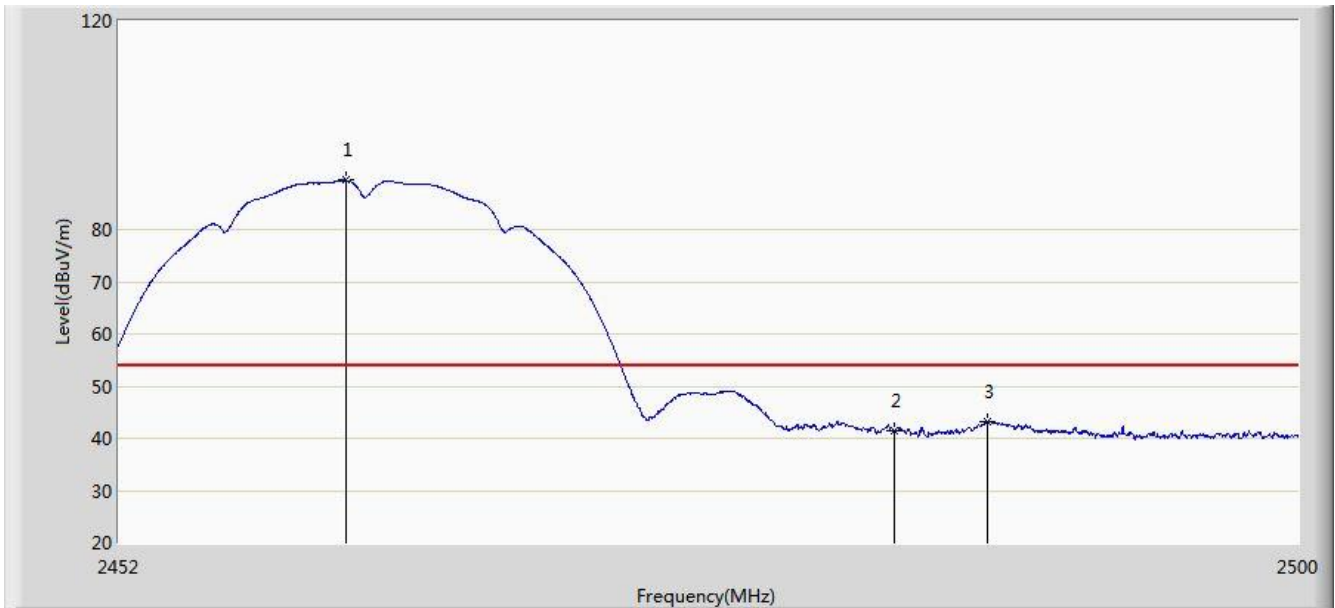


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.472	93.597	61.228	N/A	N/A	32.369	PK
2			2483.500	57.840	25.425	-16.160	74.000	32.416	PK
3			2488.888	59.497	27.071	-14.503	74.000	32.426	PK

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

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

Site: AC1	Time: 2019/08/17 - 12:04
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2462MHz	

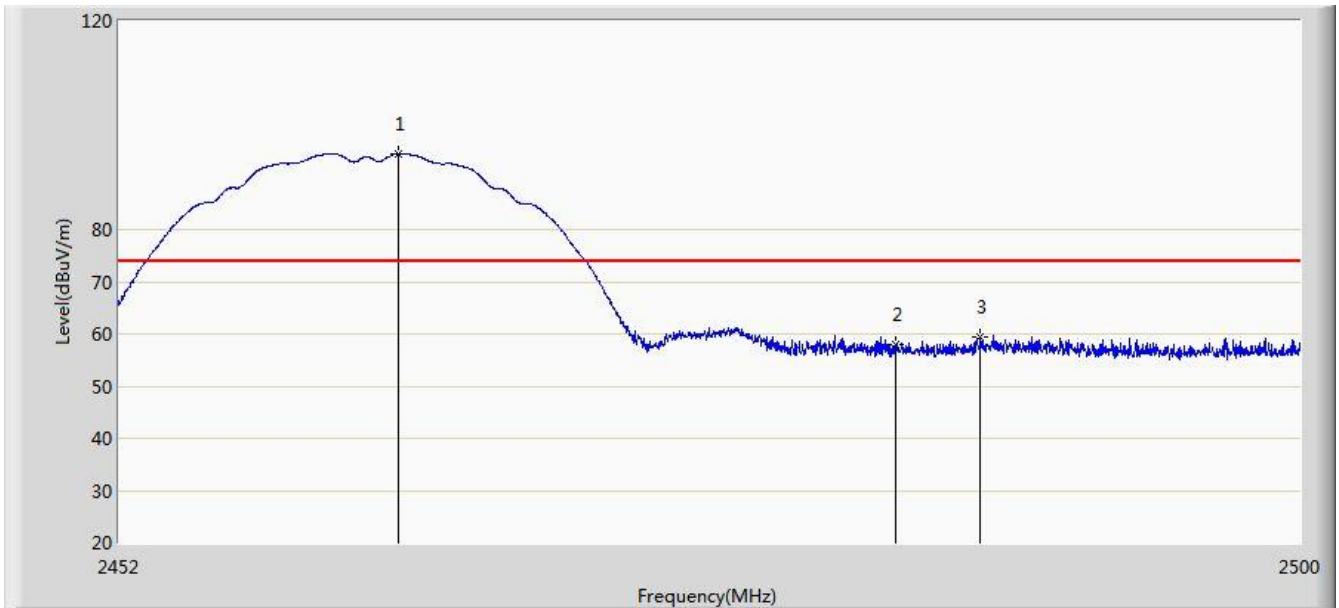


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.168	89.425	57.060	N/A	N/A	32.365	AV
2			2483.500	41.586	9.171	-12.414	54.000	32.416	AV
3			2487.304	43.329	10.906	-10.671	54.000	32.422	AV

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

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

Site: AC1	Time: 2019/08/17 - 12:05
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2462MHz	

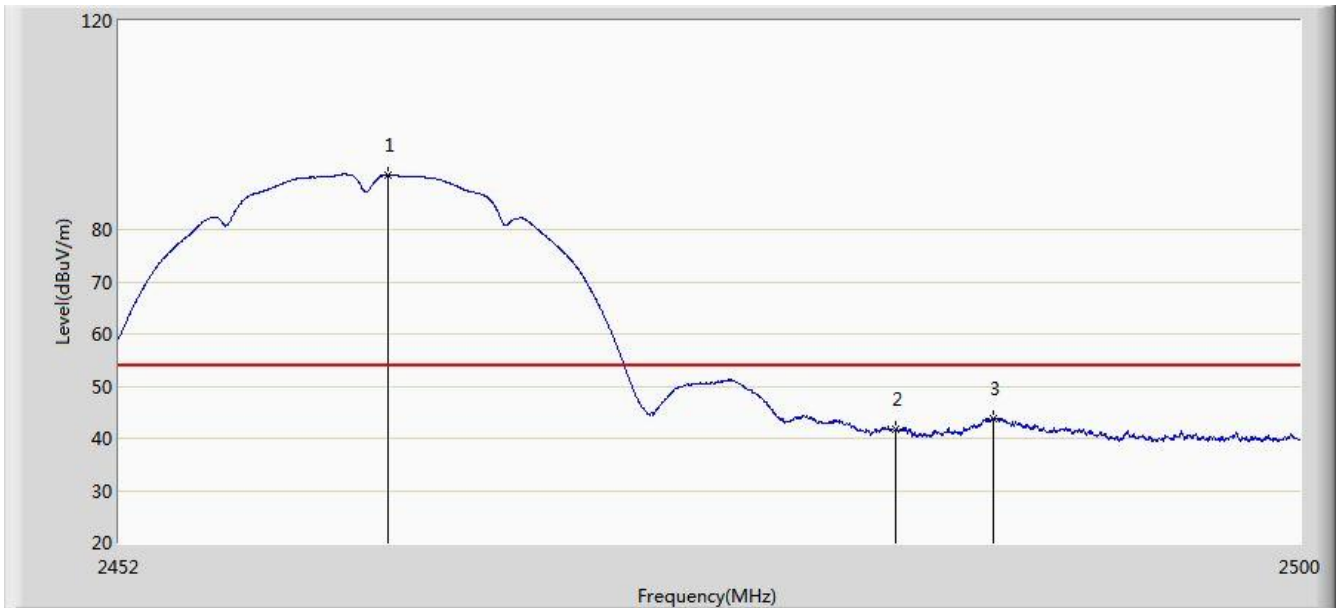


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.304	94.543	62.175	N/A	N/A	32.369	PK
2			2483.500	57.919	25.504	-16.081	74.000	32.416	PK
3			2486.944	59.490	27.068	-14.510	74.000	32.422	PK

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

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

Site: AC1	Time: 2019/08/17 - 12:07
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11b at channel 2462MHz	

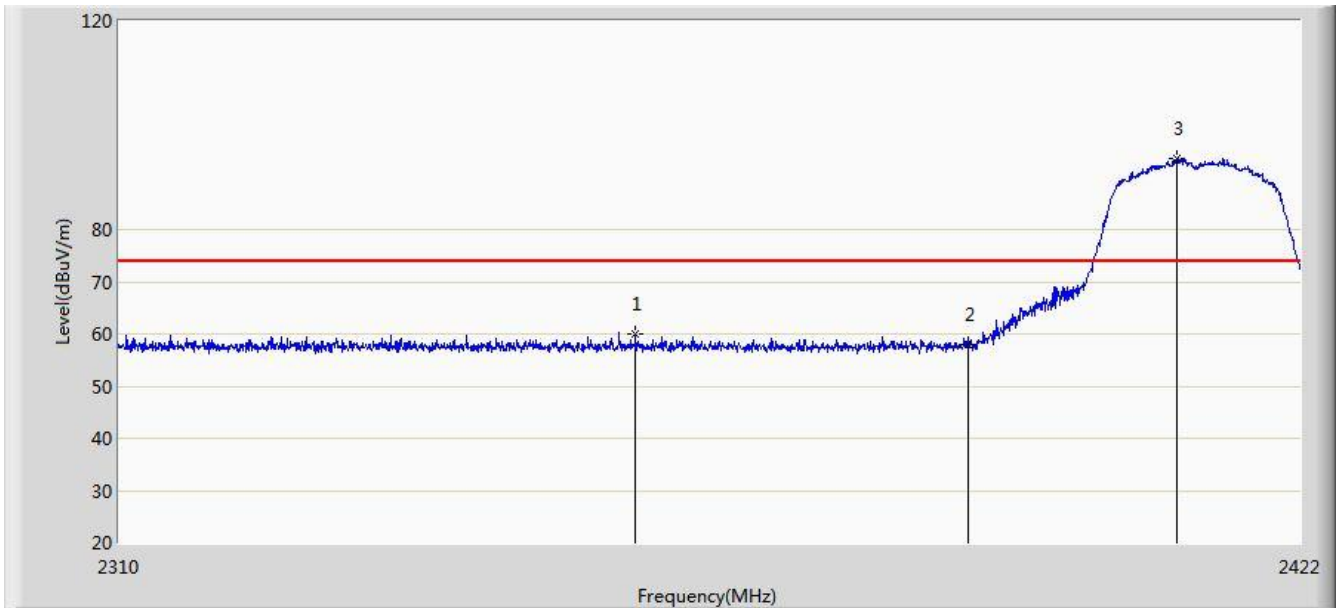


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.872	90.554	58.186	N/A	N/A	32.368	AV
2			2483.500	41.745	9.330	-12.255	54.000	32.416	AV
3			2487.472	43.882	11.459	-10.118	54.000	32.423	AV

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

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

Site: AC1	Time: 2019/08/17 - 12:15
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2412MHz	

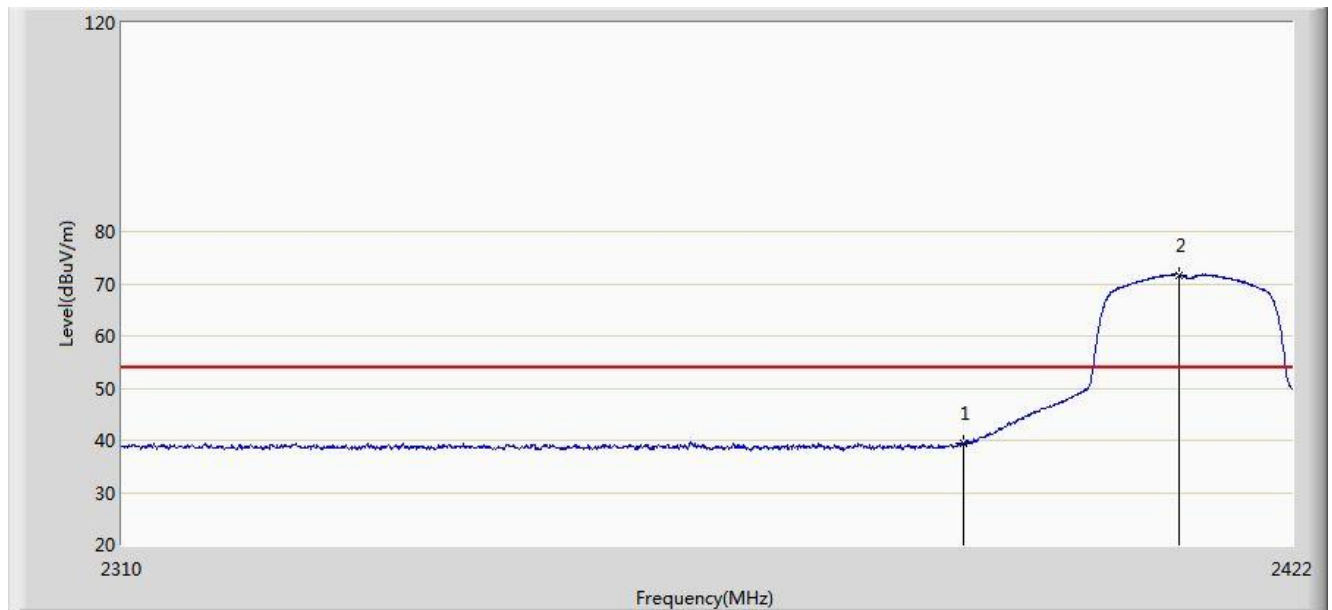


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2358.384	59.921	27.442	-14.079	74.000	32.479	PK
2			2390.000	58.023	25.610	-15.977	74.000	32.413	PK
3		*	2410.072	93.731	61.345	N/A	N/A	32.387	PK

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

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

Site: AC1	Time: 2019/08/17 - 12:26
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2412MHz	

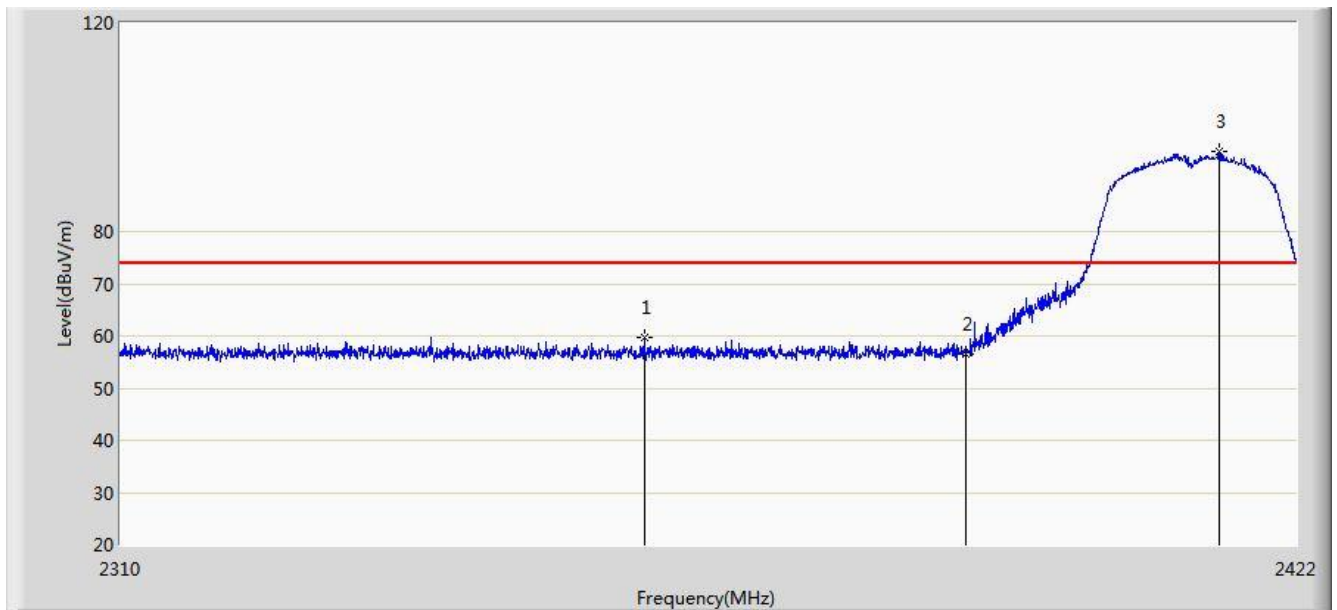


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	39.488	7.075	-14.512	54.000	32.413	AV
2		*	2410.968	71.712	39.327	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/08/17 - 12:53
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2412MHz	

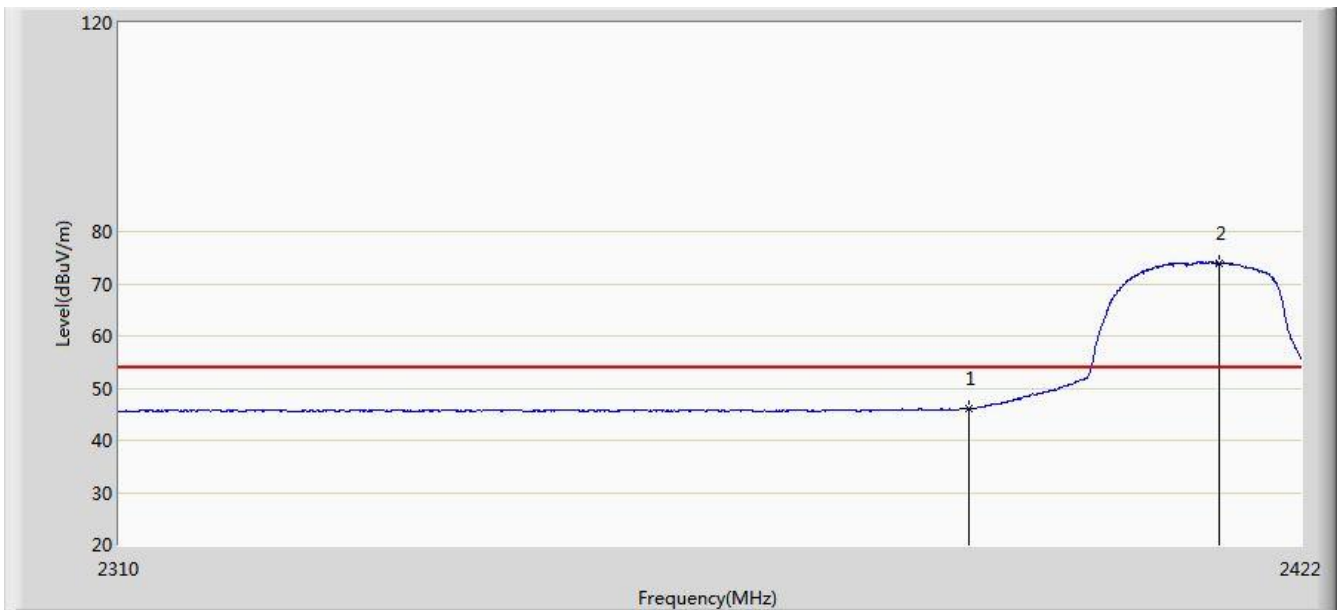


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2359.280	59.646	27.169	-14.354	74.000	32.477	PK
2			2390.000	56.651	24.238	-17.349	74.000	32.413	PK
3		*	2414.552	95.496	63.115	N/A	N/A	32.381	PK

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

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

Site: AC1	Time: 2019/08/17 - 12:56
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2412MHz	

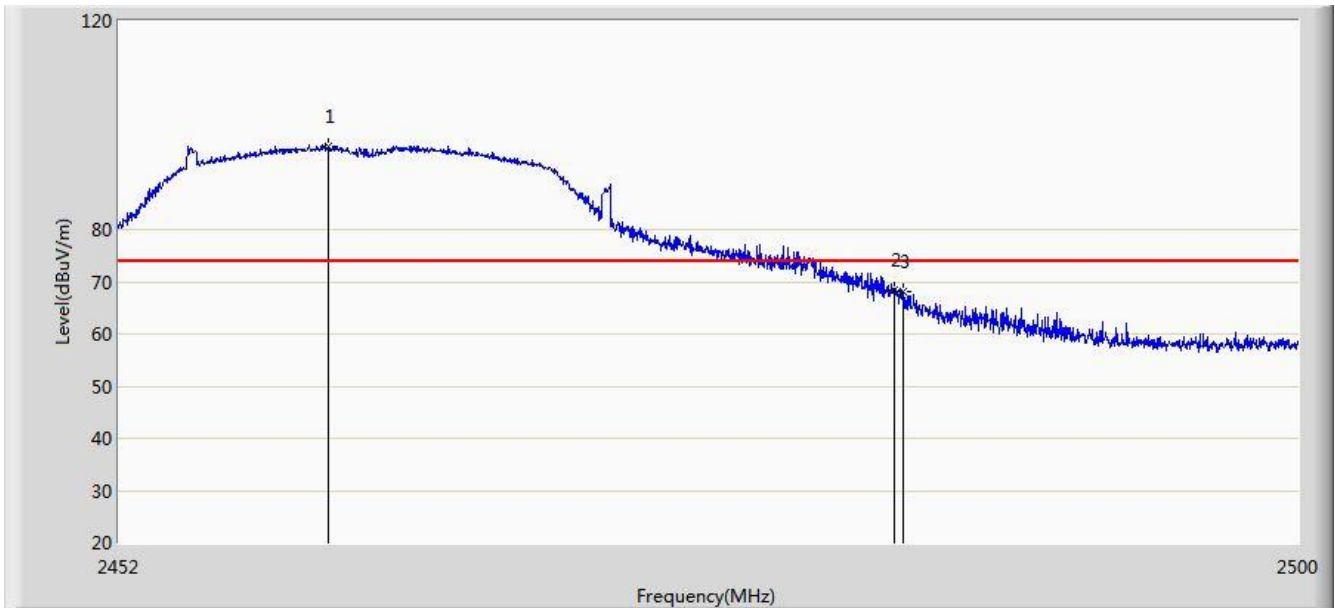


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.033	13.620	-7.967	54.000	32.413	AV
2		*	2414.104	74.010	41.628	N/A	N/A	32.382	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:03
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2462MHz	

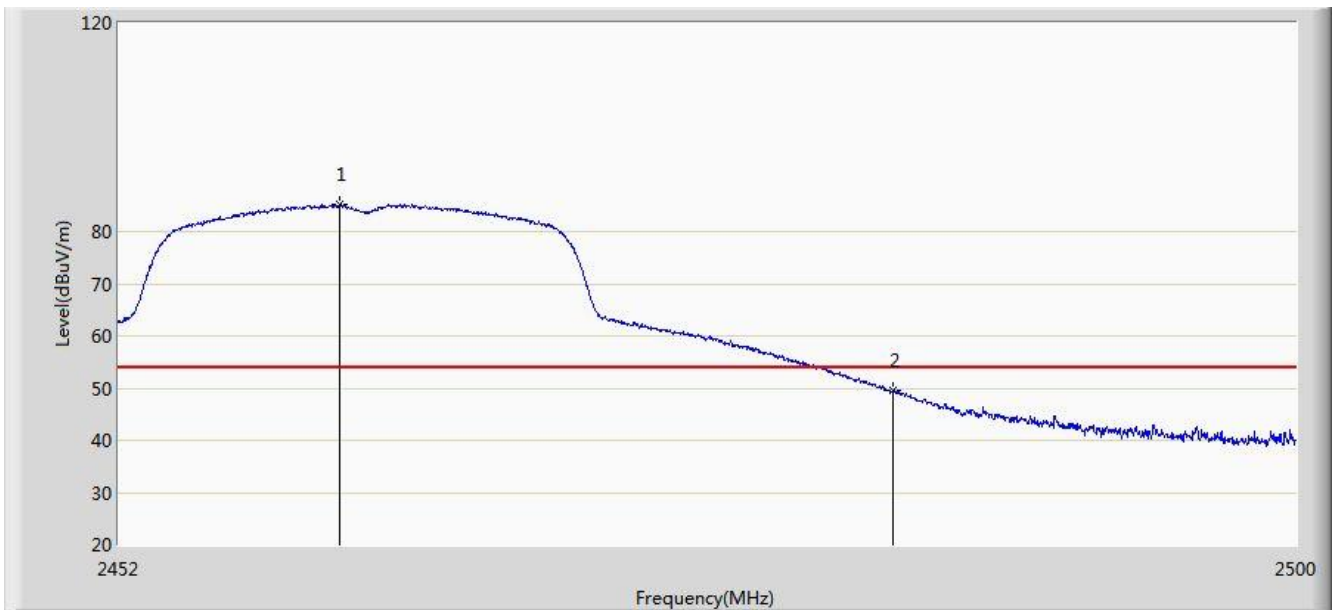


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.472	96.027	63.664	N/A	N/A	32.363	PK
2			2483.500	68.444	36.029	-5.556	74.000	32.416	PK
3			2483.824	68.221	35.805	-5.779	74.000	32.416	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:09
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2462MHz	

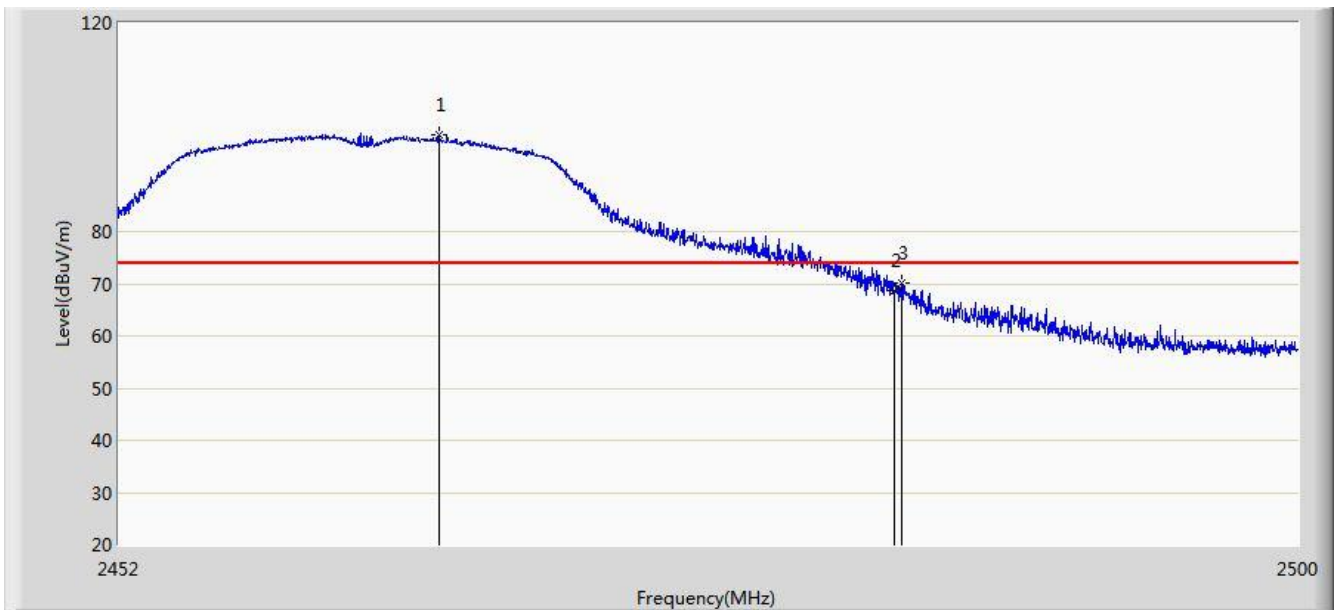


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.976	85.085	52.721	N/A	N/A	32.364	AV
2			2483.500	49.482	17.067	-4.518	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:11
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2462MHz	

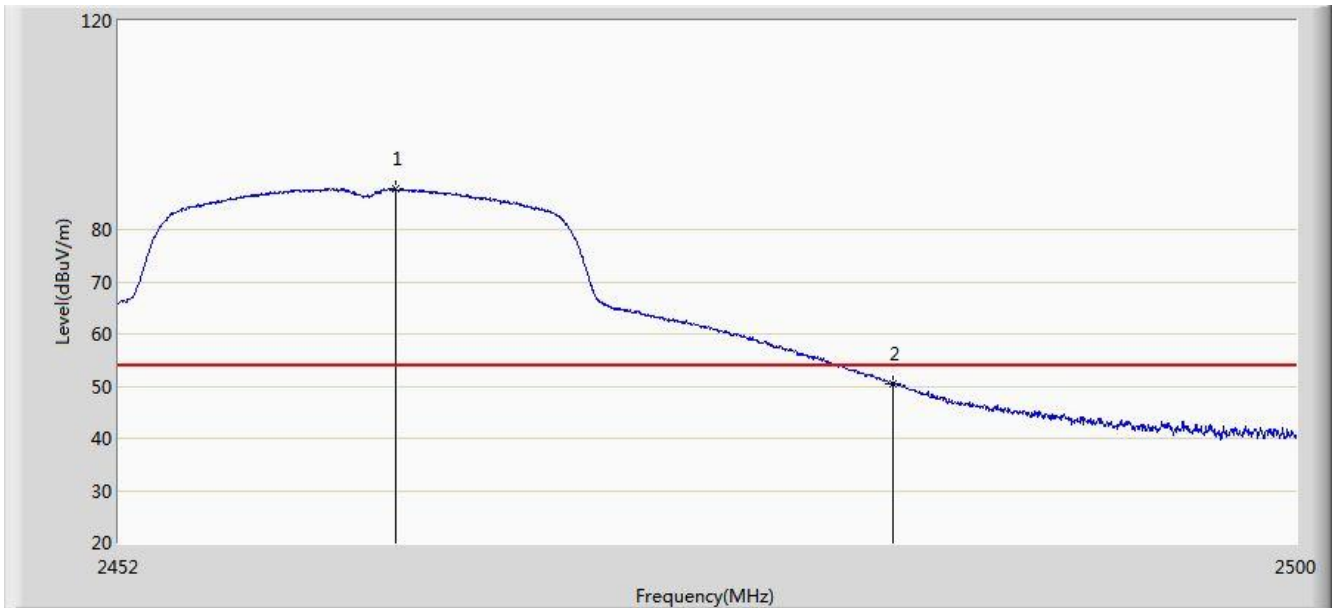


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.936	98.621	66.249	N/A	N/A	32.372	PK
2			2483.500	68.668	36.253	-5.332	74.000	32.416	PK
3			2483.752	70.211	37.795	-3.789	74.000	32.416	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:16
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11g at channel 2462MHz	

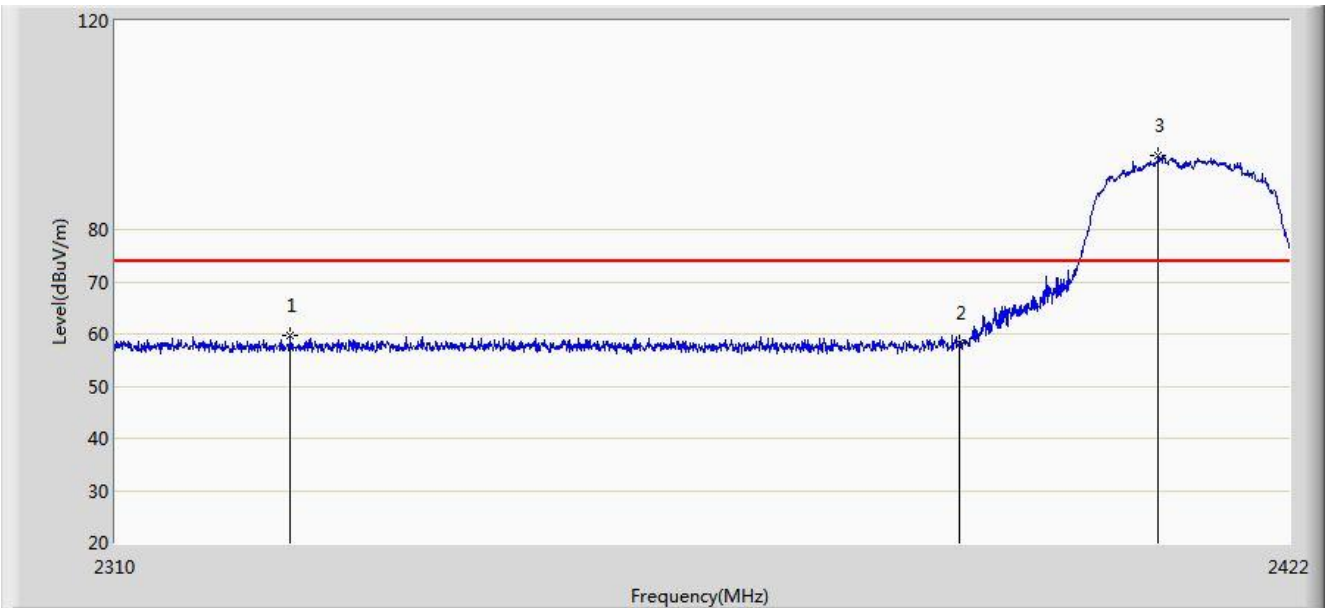


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.208	87.882	55.514	N/A	N/A	32.368	AV
2			2483.500	50.525	18.110	-3.475	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:21
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

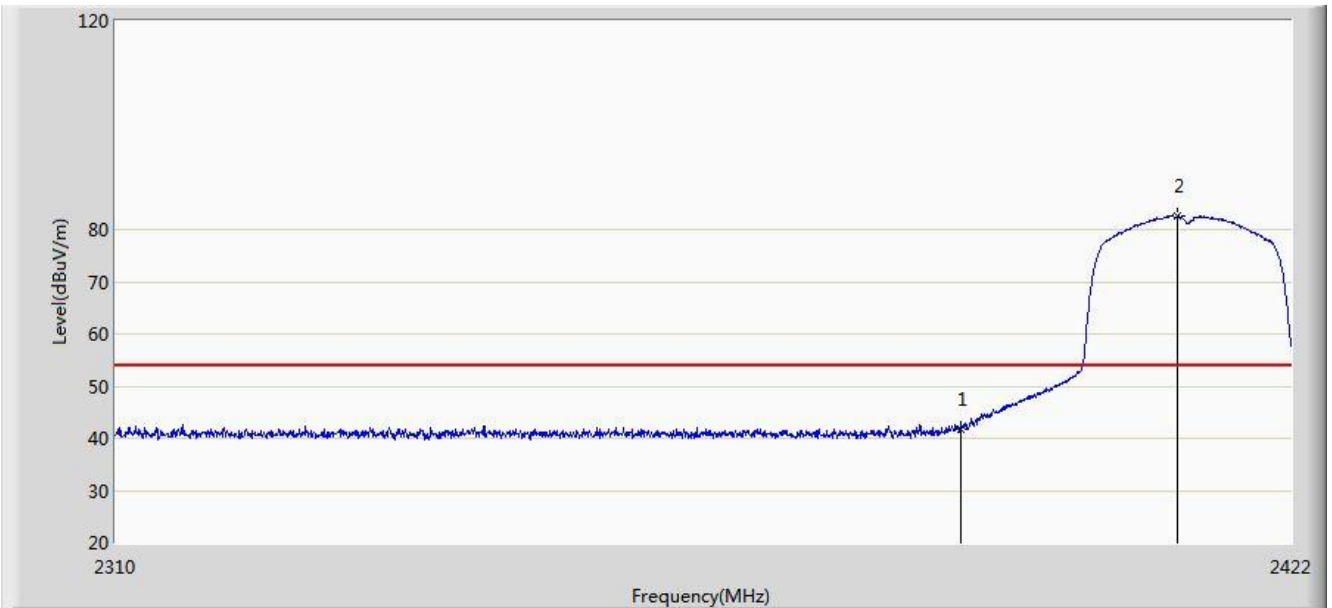


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2326.408	59.682	27.075	-14.318	74.000	32.606	PK
2			2390.000	58.202	25.789	-15.798	74.000	32.413	PK
3		*	2409.288	94.148	61.761	N/A	N/A	32.388	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:26
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

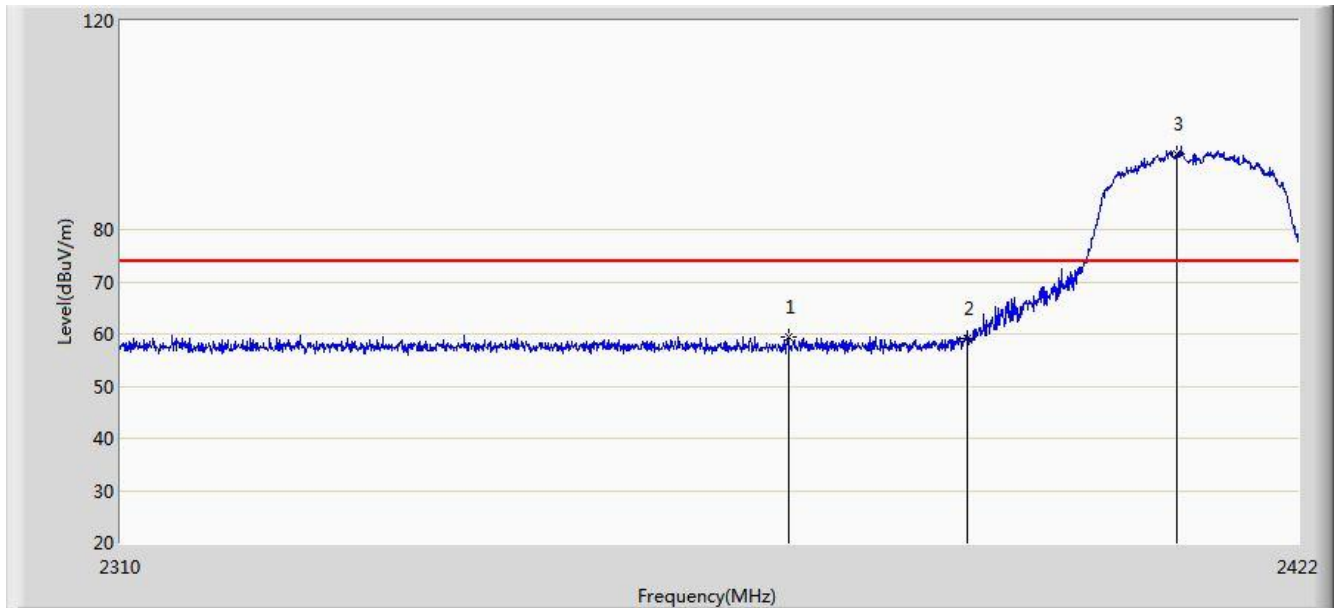


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	41.849	9.436	-12.151	54.000	32.413	AV
2		*	2411.024	82.579	50.194	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:33
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

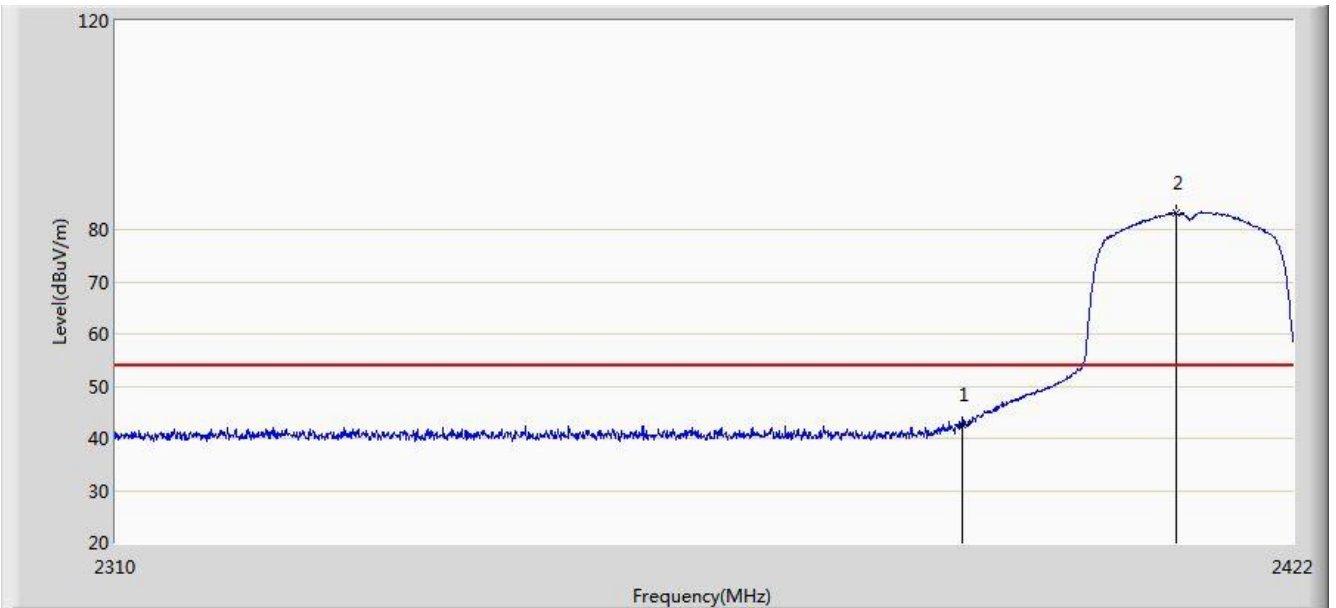


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2372.888	59.394	26.948	-14.606	74.000	32.446	PK
2			2390.000	59.018	26.605	-14.982	74.000	32.413	PK
3		*	2410.296	94.513	62.127	N/A	N/A	32.386	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:38
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

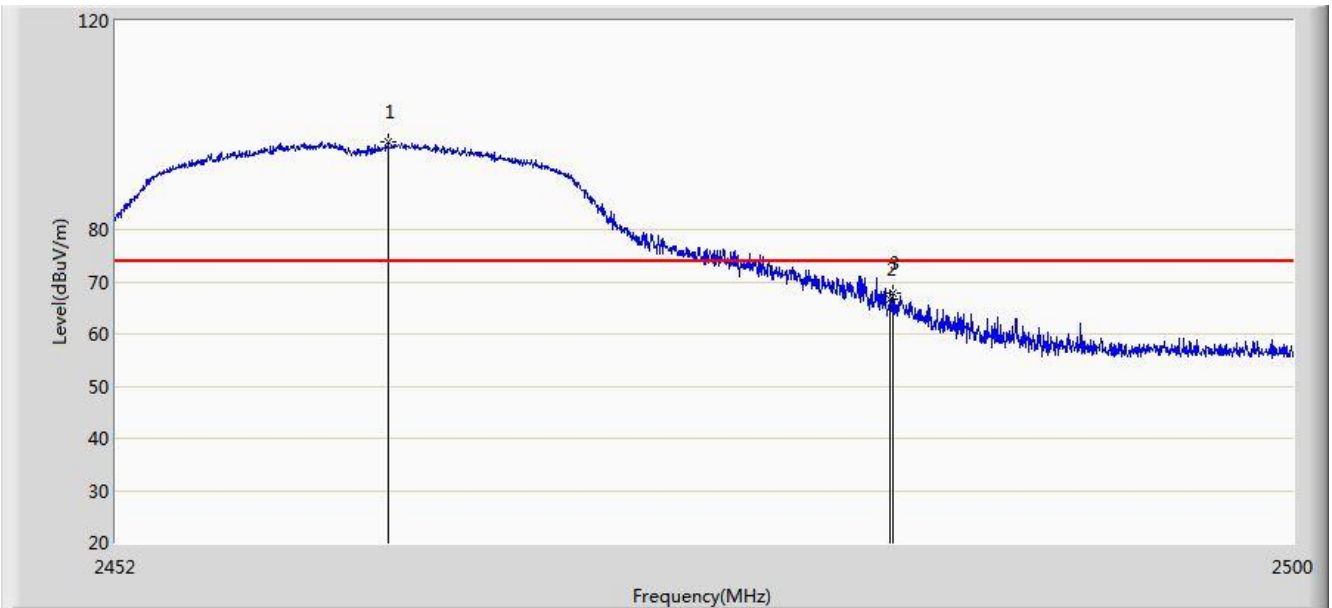


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	42.703	10.290	-11.297	54.000	32.413	AV
2		*	2410.632	83.261	50.875	N/A	N/A	32.386	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:43
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

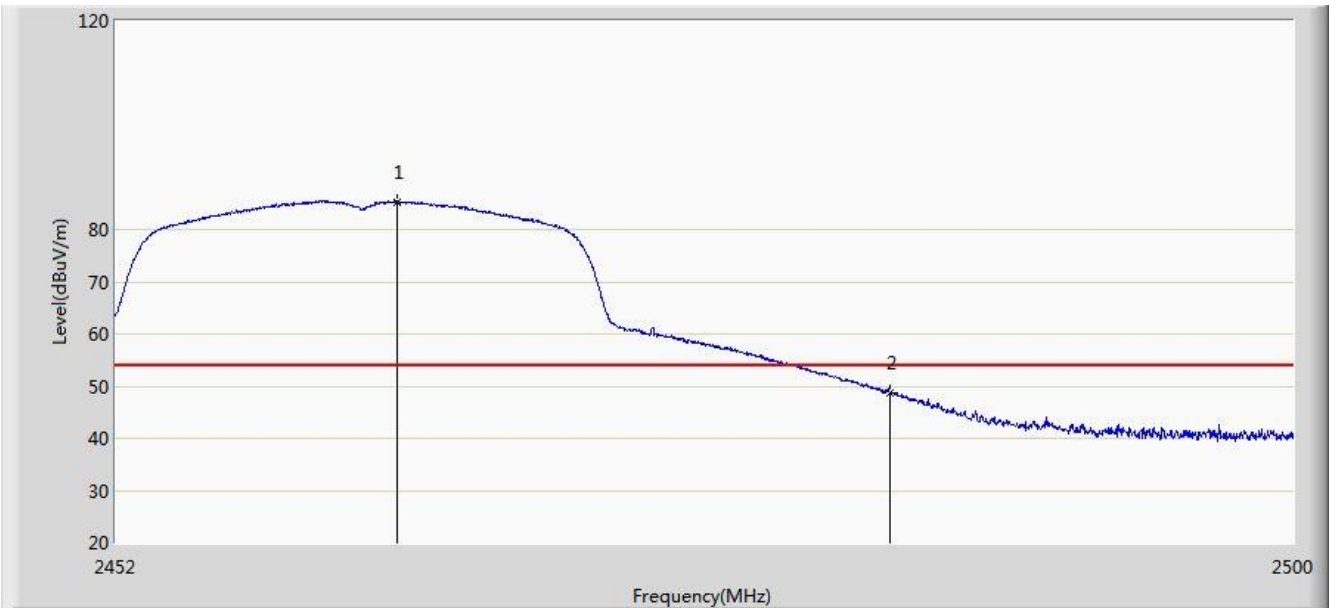


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.040	96.718	64.350	N/A	N/A	32.368	PK
2			2483.500	66.720	34.305	-7.280	74.000	32.416	PK
3			2483.608	67.922	35.506	-6.078	74.000	32.416	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:46
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

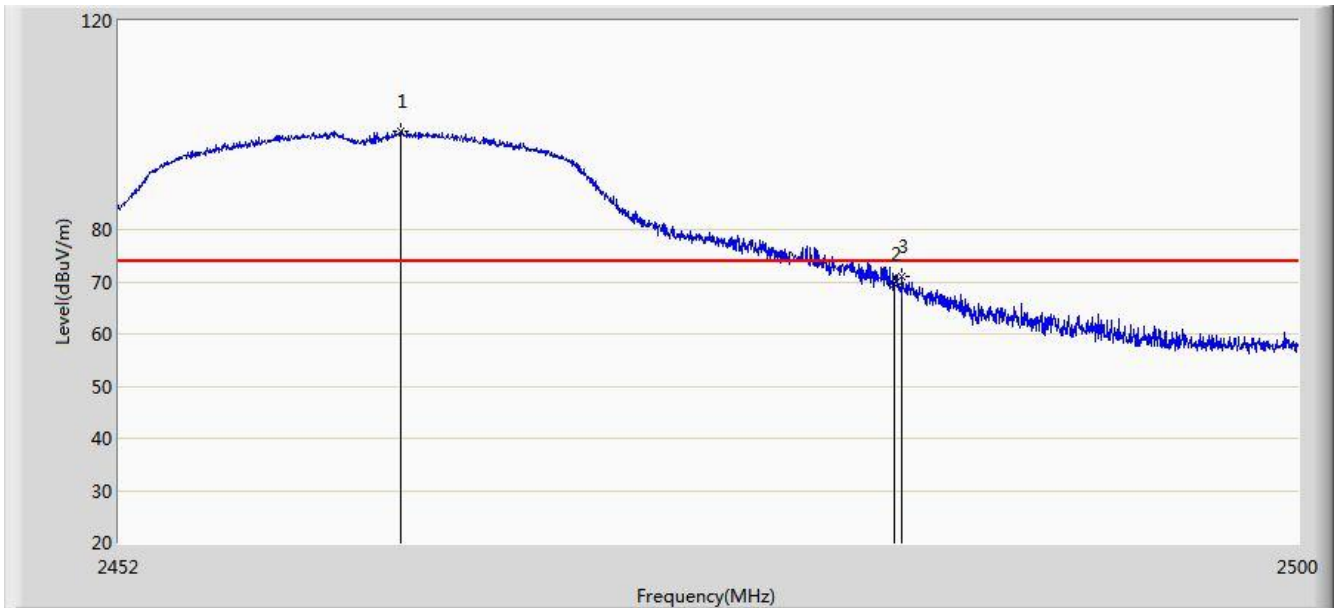


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.376	85.149	52.780	N/A	N/A	32.369	AV
2			2483.500	48.588	16.173	-5.412	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/08/17 - 13:48
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

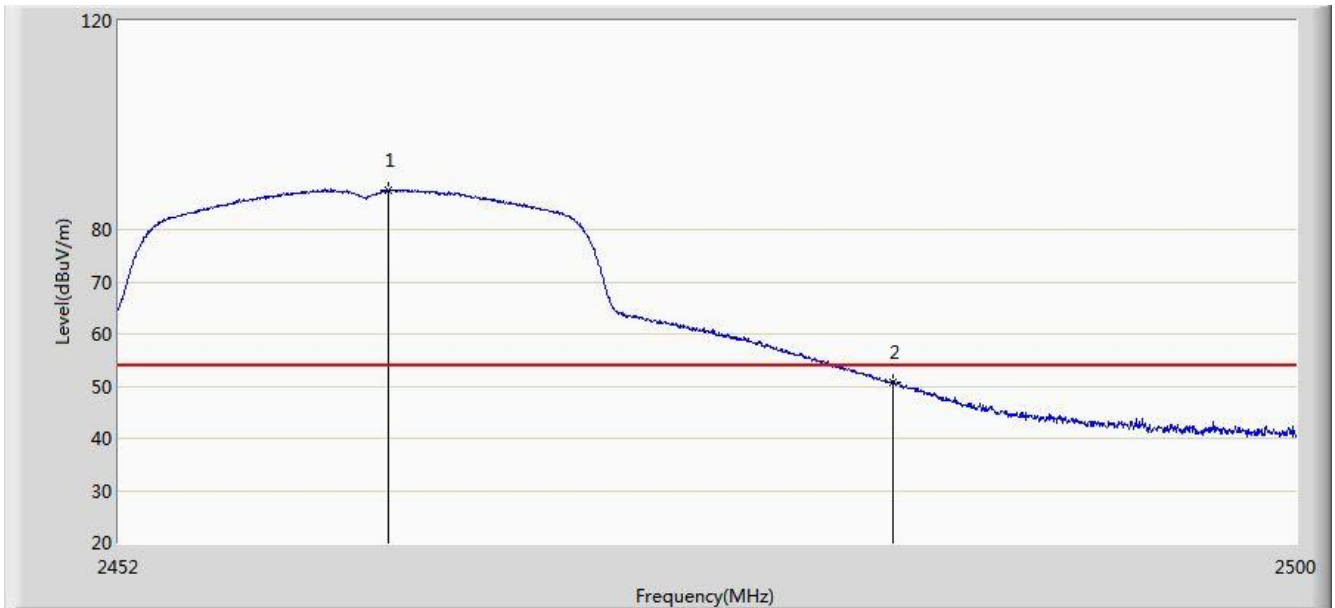


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.424	98.774	66.405	N/A	N/A	32.369	PK
2			2483.500	69.545	37.130	-4.455	74.000	32.416	PK
3			2483.800	70.873	38.457	-3.127	74.000	32.416	PK

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

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

Site: AC1	Time: 2019/08/17 - 13:54
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

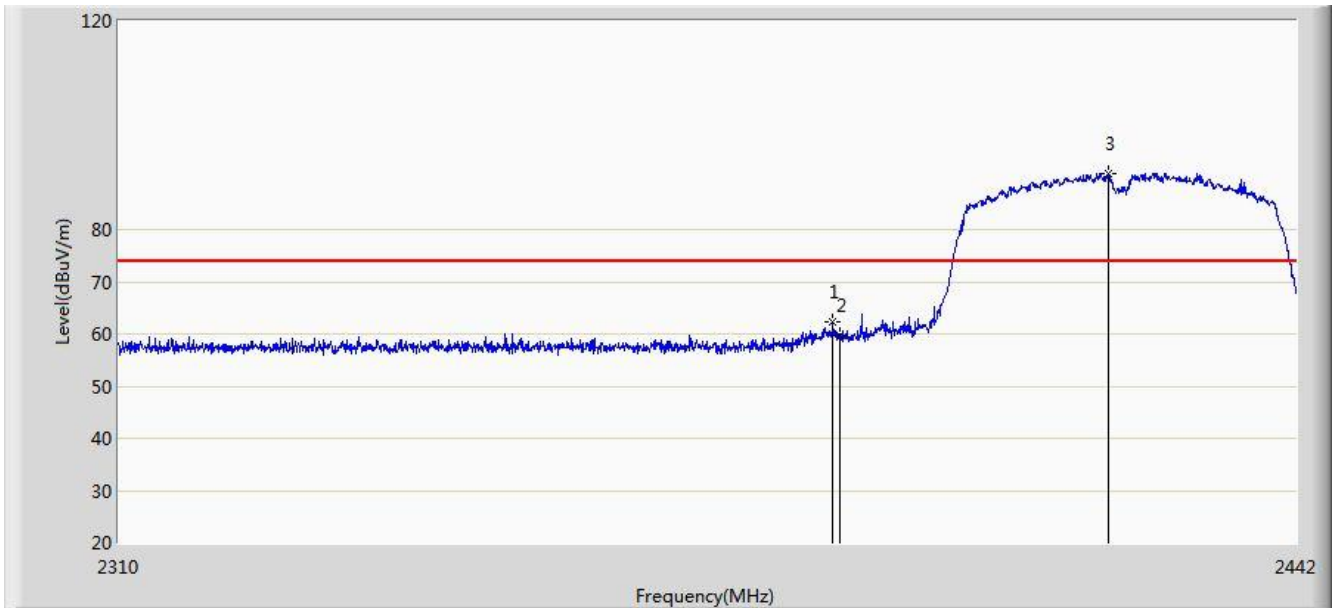


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.944	87.635	55.267	N/A	N/A	32.368	AV
2			2483.500	50.821	18.406	-3.179	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/08/17 - 14:01
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

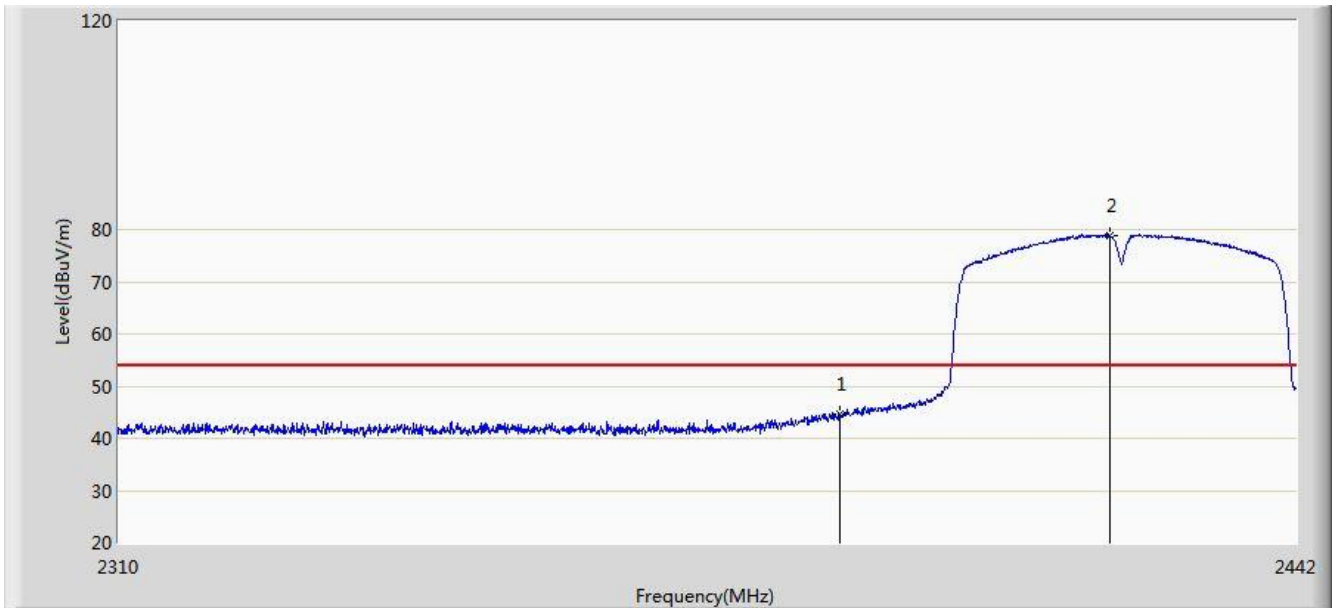


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.266	62.290	29.876	-11.710	74.000	32.414	PK
2			2390.000	59.792	27.379	-14.208	74.000	32.413	PK
3		*	2420.418	90.771	58.396	N/A	N/A	32.375	PK

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

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

Site: AC1	Time: 2019/08/17 - 14:05
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

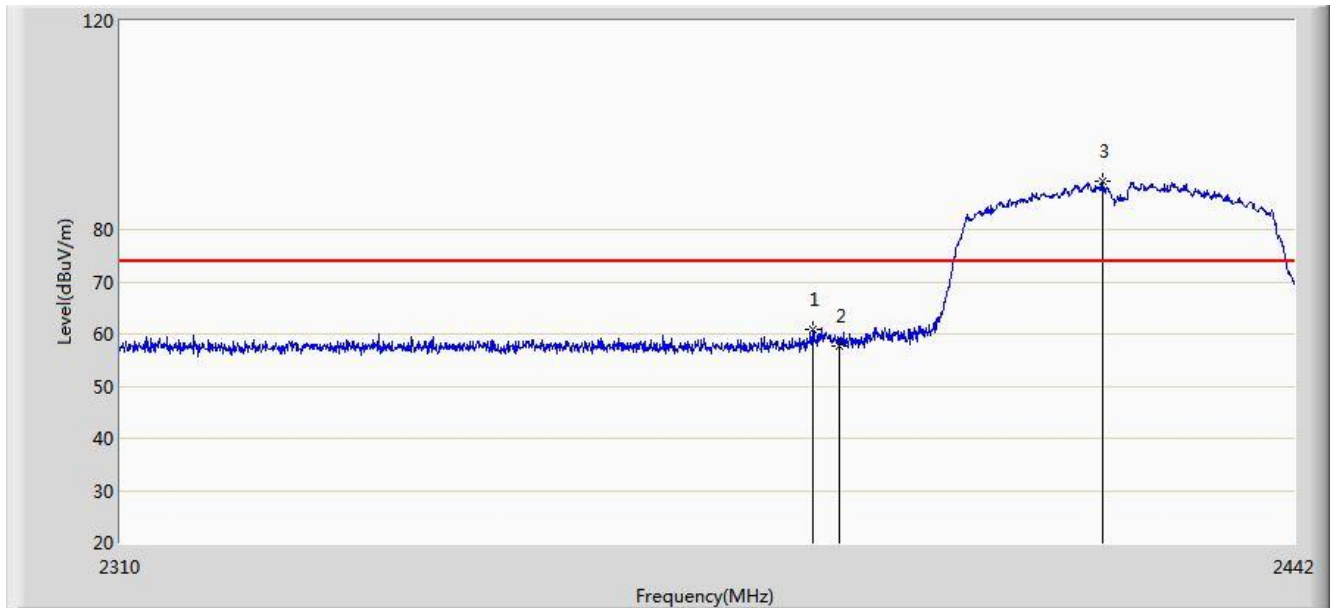


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.623	12.210	-9.377	54.000	32.413	AV
2		*	2420.748	78.865	46.491	N/A	N/A	32.374	AV

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

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

Site: AC1	Time: 2019/08/17 - 14:09
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

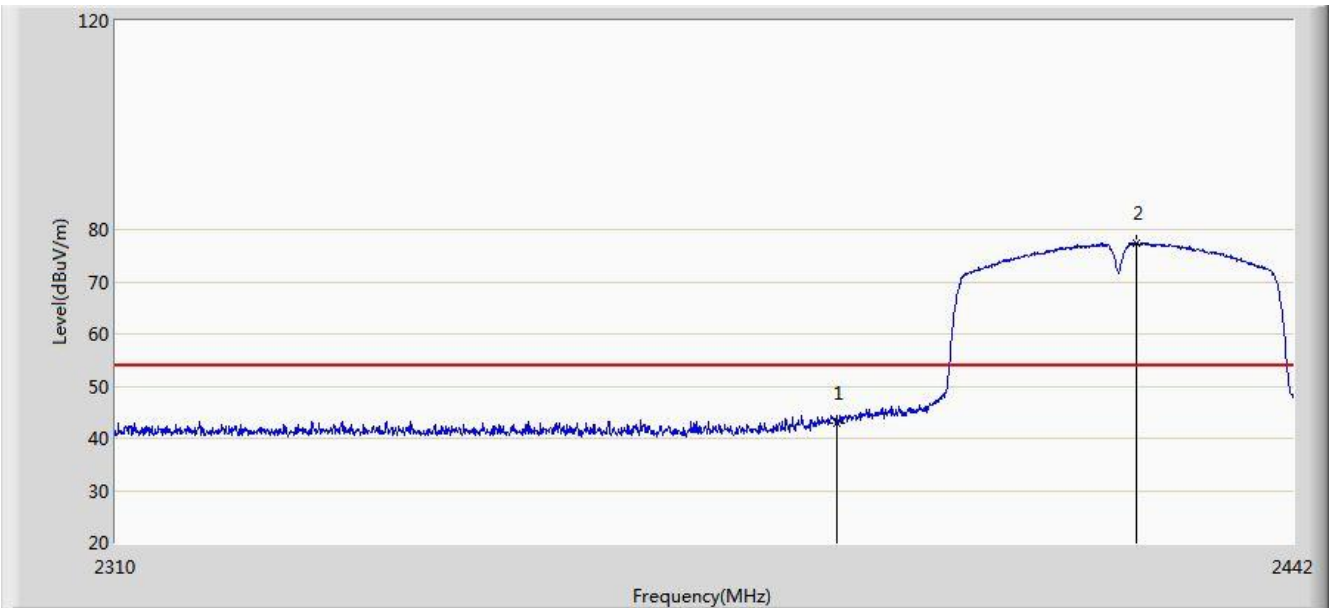


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.956	60.998	28.580	-13.002	74.000	32.419	PK
2			2390.000	57.619	25.206	-16.381	74.000	32.413	PK
3		*	2419.956	89.148	56.773	N/A	N/A	32.375	PK

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

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

Site: AC1	Time: 2019/08/17 - 14:15
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

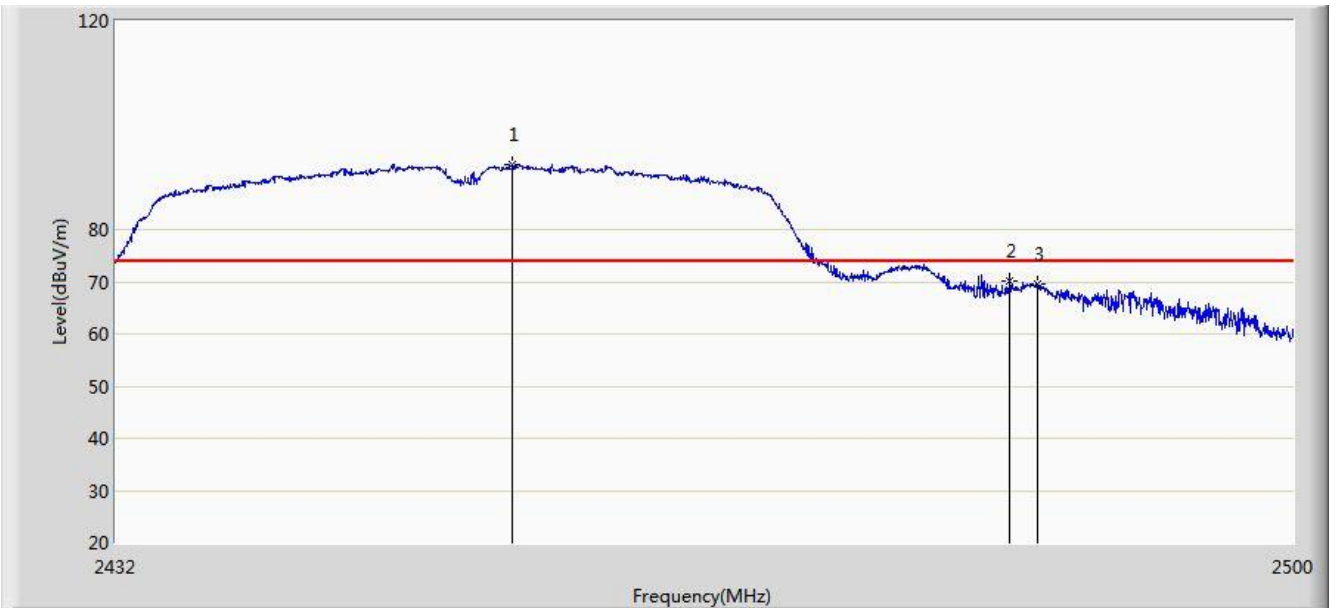


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	42.886	10.473	-11.114	54.000	32.413	AV
2		*	2423.982	77.401	45.030	N/A	N/A	32.370	AV

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

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

Site: AC1	Time: 2019/08/17 - 14:22
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

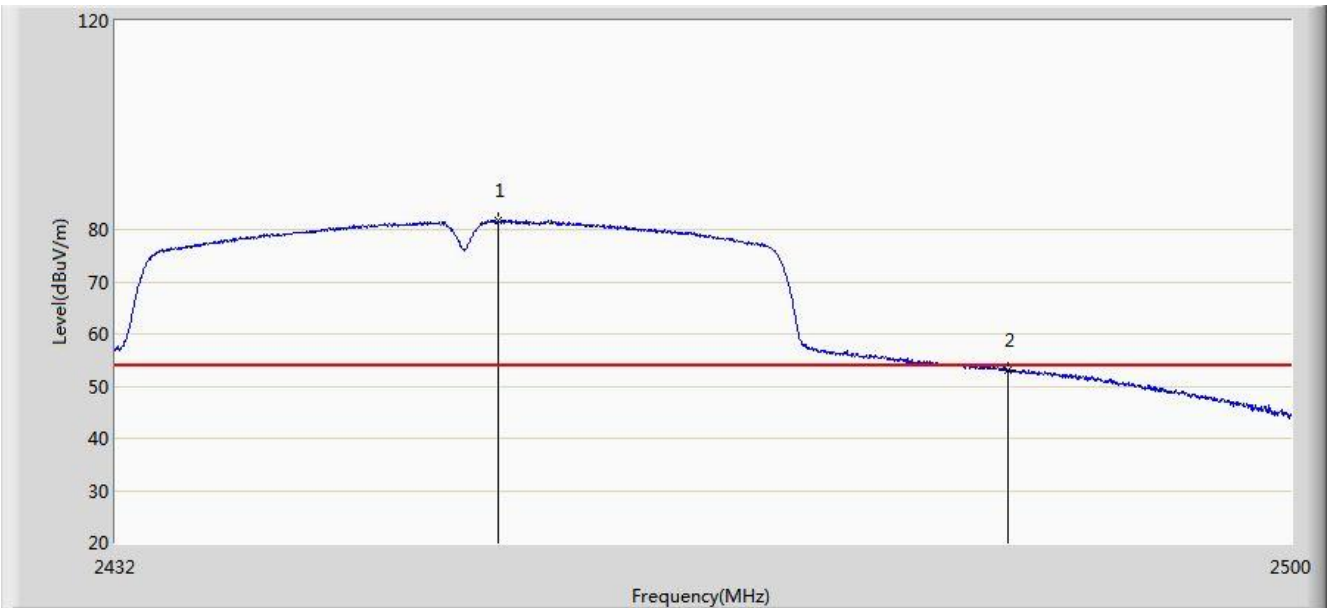


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.746	92.537	60.184	N/A	N/A	32.353	PK
2			2483.500	70.014	37.599	-3.986	74.000	32.416	PK
3			2485.074	69.605	37.186	-4.395	74.000	32.418	PK

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

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

Site: AC1	Time: 2019/08/17 - 14:24
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

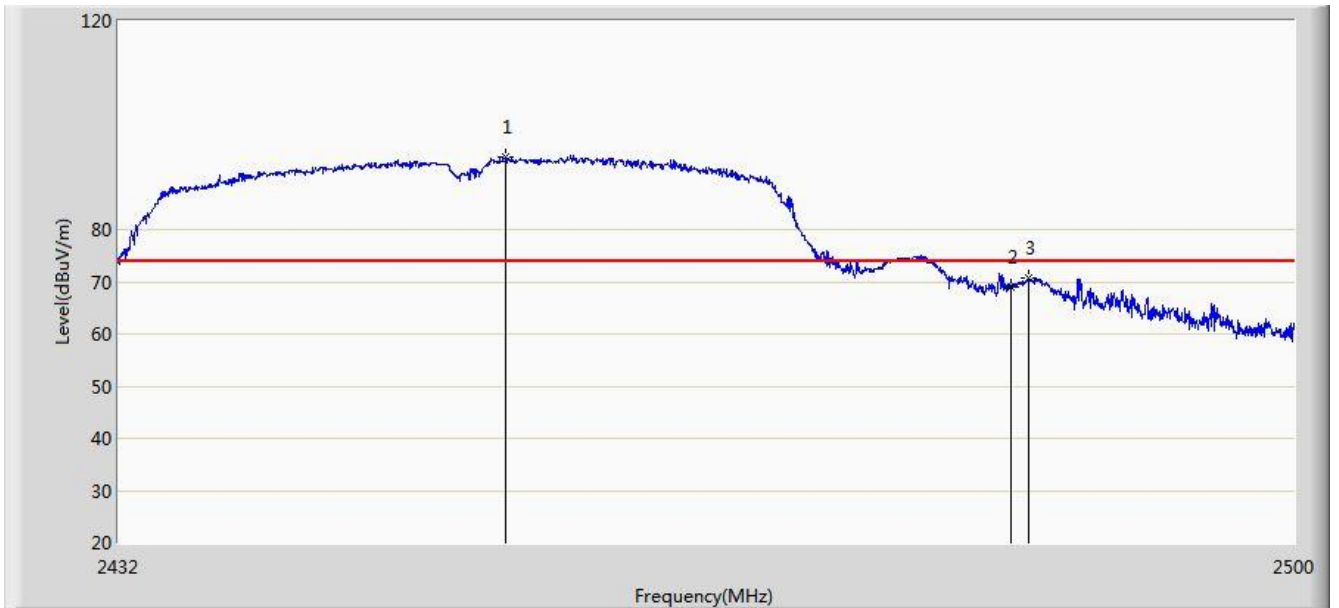


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.930	81.657	49.306	N/A	N/A	32.351	AV
2			2483.500	53.105	20.690	-0.895	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/08/17 - 14:29
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

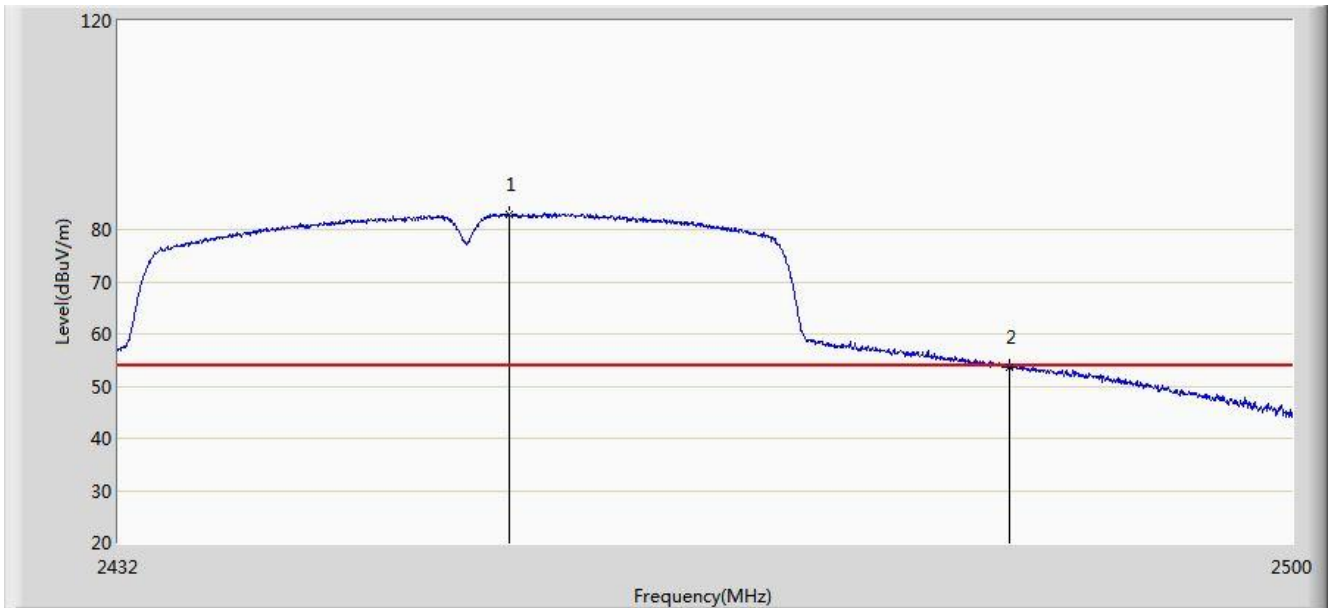


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.236	93.953	61.601	N/A	N/A	32.351	PK
2			2483.500	69.097	36.682	-4.903	74.000	32.416	PK
3			2484.530	70.788	38.371	-3.212	74.000	32.417	PK

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

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

Site: AC1	Time: 2019/08/19 - 16:23
Limit: FCC_Part15.209 RSE(3m)	Engineer: Jason Gao
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Color Radio	Power: DC 12V
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.440	82.898	50.546	N/A	N/A	32.352	AV
2			2483.500	53.508	21.092	-0.492	54.000	32.416	AV

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

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

7.8. AC Conducted Emissions Measurement

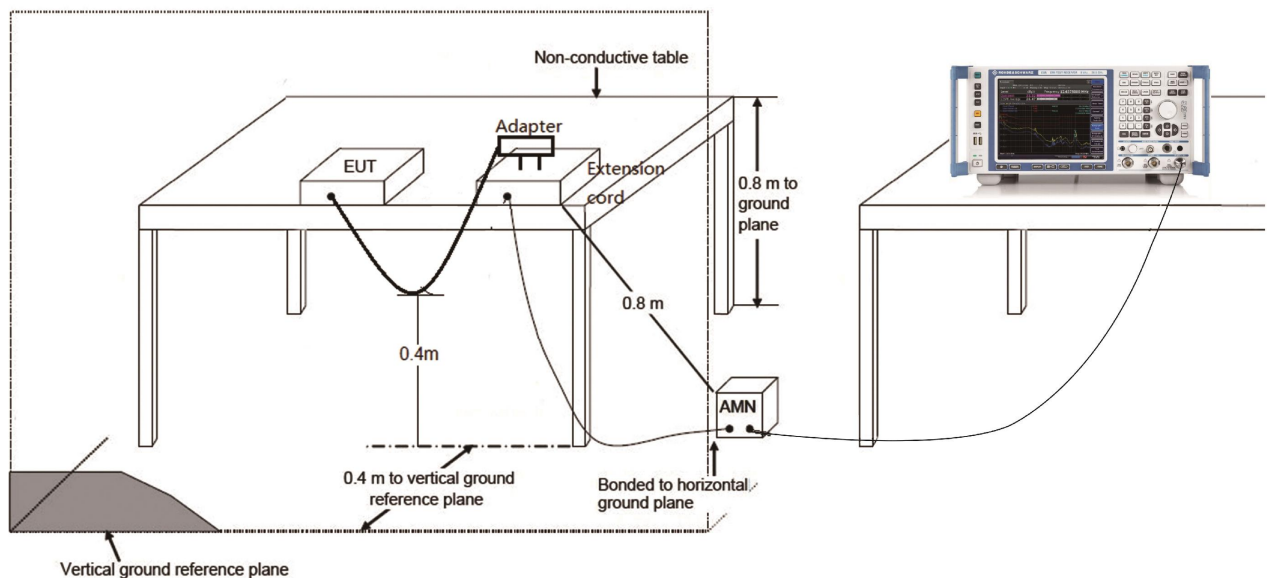
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

7.8.2. Test Setup



7.8.3. Test Result

Device is powered by battery, so this item is not applied.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15C of the FCC rules.

The End

Appendix A - Test Setup Photograph

Refer to “1907WSU008-UT” file.

Appendix B - EUT Photograph

Refer to “1907WSU008-UE” file.