DH5 Band-edge Compliance

Channel 00 (2402MHz)

Channel 78 (2480MHz)

2DH5 Band-edge Compliance

Channel 00 (2402MHz)

Channel 78 (2480MHz)

3DH5 Band-edge Compliance

Channel 00 (2402MHz)

Channel 78 (2480MHz)

DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

Channel 00 (2402MHz)

Channel 78 (2480MHz)

2DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

Channel 00 (2402MHz)

Channel 78 (2480MHz)

3DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

Channel 00 (2402MHz)

Channel 78 (2480MHz)

7.8. Conducted Spurious Emissions Measurement

7.8.1.Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

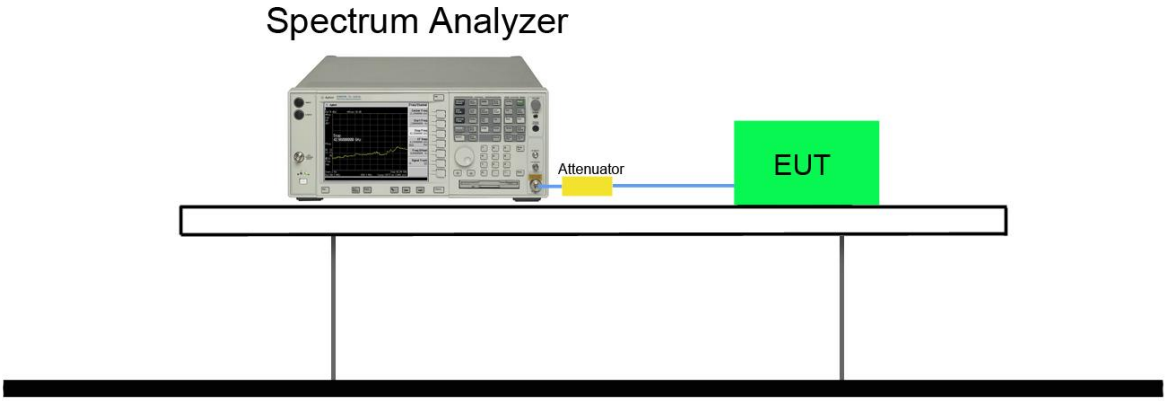
7.8.2.Test Procedure Used

ANSI C63.10-2013 - Section 7.8.8

7.8.3.Test Setting

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW ≥ RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

7.8.4.Test Setup



7.8.5.Test Result

Product	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Will Yan	Relative Humidity	52%
Test Site	TR3	Test Date	2018/08/21

Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
2DH5	39	2441	20dBc	Pass
2DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	39	2441	20dBc	Pass
3DH5	78	2480	20dBc	Pass

DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)

2DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)

3DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)

7.9. Radiated Spurious Emission Measurement

7.9.1.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

7.9.2.Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.9.3.Test Setting

Peak Field Strength Measurements

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

Table 1 - RBW as a function of frequency

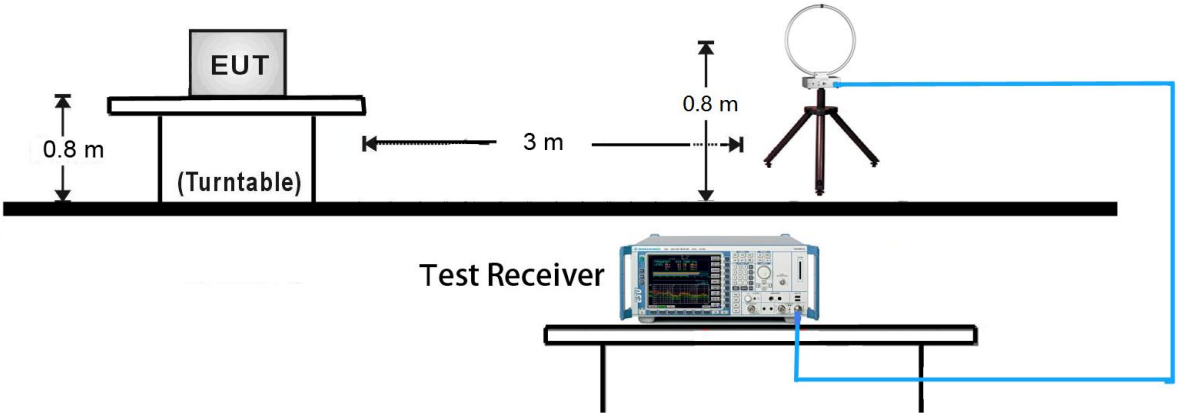
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

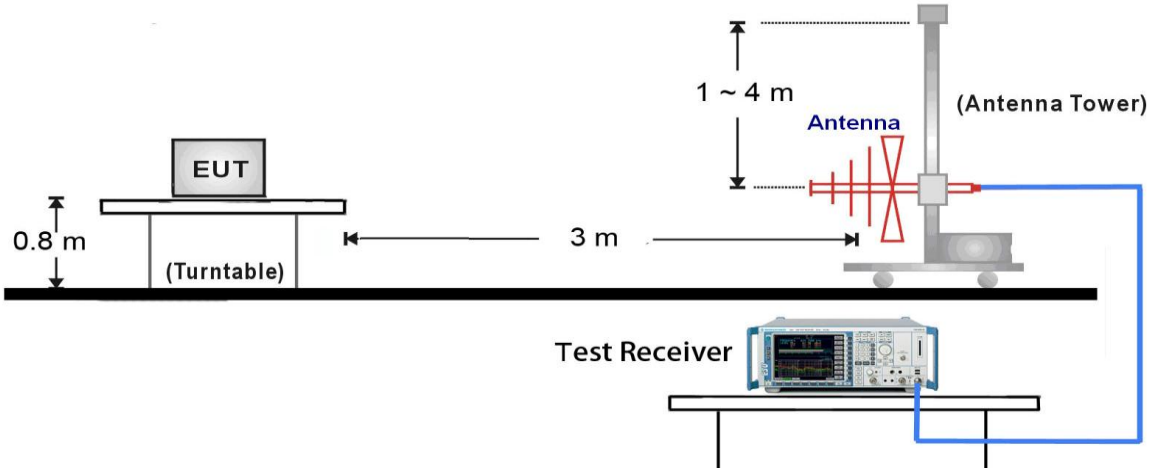
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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

7.9.4.Test Setup

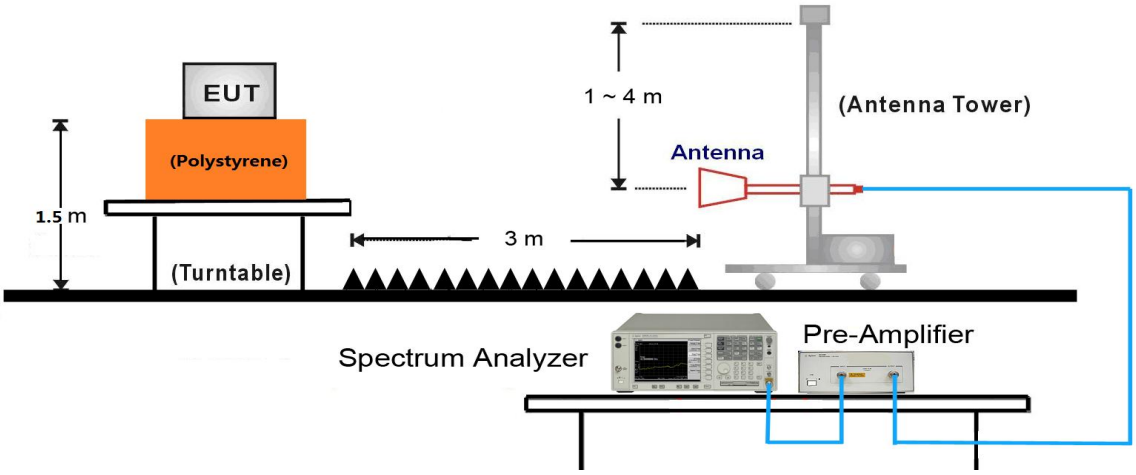
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:



7.9.5.Test Result

Product	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	DH5	Test Channel:	00
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
	4804.0	44.3	5.9	50.2	74.0	-23.8	Peak	Horizontal
	7502.5	37.5	12.7	50.3	74.0	-23.7	Peak	Horizontal
*	8539.5	37.1	12.7	49.8	79.7	-29.9	Peak	Horizontal
*	10035.5	35.7	16.7	52.4	79.7	-27.3	Peak	Horizontal
	4799.5	44.9	5.8	50.7	74.0	-23.3	Peak	Vertical
	7383.5	36.4	12.6	49.0	74.0	-31.0	Peak	Vertical
*	9279.0	34.2	14.5	48.7	79.7	-27.4	Peak	Vertical
*	10375.5	34.9	17.4	52.3	79.7	-21.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.7dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	DH5	Test Channel:	39
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
	4882.0	46.7	6.0	52.6	74.0	-21.4	Peak	Horizontal
	7655.5	36.3	12.7	49.0	74.0	-25.0	Peak	Horizontal
*	10163.0	34.4	17.0	51.4	79.2	-27.8	Peak	Horizontal
*	10554.0	35.1	17.7	52.8	79.2	-26.4	Peak	Horizontal
	4882.0	44.8	6.0	50.8	74.0	-23.2	Peak	Vertical
	7681.0	36.9	12.8	49.6	74.0	-24.4	Peak	Vertical
*	8531.0	35.7	12.6	48.3	79.2	-30.9	Peak	Vertical
*	9959.0	33.9	16.7	50.6	79.2	-28.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.2dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	DH5	Test Channel:	78
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
	4960.0	44.0	6.1	50.1	74.0	-23.9	Peak	Horizontal
	7307.0	37.6	12.5	50.1	74.0	-23.9	Peak	Horizontal
*	9364.0	34.2	14.7	48.9	81.1	-32.2	Peak	Horizontal
*	10205.5	34.6	17.1	51.8	81.1	-29.3	Peak	Horizontal
	4960.0	40.1	6.1	46.2	74.0	-27.8	Peak	Vertical
	7511.0	37.1	12.7	49.9	74.0	-24.1	Peak	Vertical
*	9585.0	34.1	15.2	49.3	81.1	-31.8	Peak	Vertical
*	10120.5	33.6	16.9	50.6	81.1	-30.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.1dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	2DH5	Test Channel:	00
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
	4799.5	45.1	5.8	51.0	74.0	-23.0	Peak	Horizontal
	7383.5	36.5	12.6	49.1	74.0	-24.9	Peak	Horizontal
*	9627.5	34.8	15.4	50.2	82.2	-32.0	Peak	Horizontal
*	10256.5	33.4	17.2	50.6	82.2	-31.6	Peak	Horizontal
	4804.0	45.5	5.9	51.3	74.0	-22.7	Peak	Vertical
	7358.0	37.0	12.7	49.7	74.0	-24.3	Peak	Vertical
*	9653.0	36.2	15.5	51.7	82.2	-30.5	Peak	Vertical
*	10299.0	33.7	17.3	51.0	82.2	-31.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.2dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	2DH5	Test Channel:	39
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
	4882.0	47.5	6.0	53.5	74.0	-20.5	Peak	Horizontal
	7545.0	36.3	13.0	49.3	74.0	-24.7	Peak	Horizontal
*	10239.5	32.6	17.2	49.7	81.6	-31.9	Peak	Horizontal
*	10545.5	33.5	17.7	51.2	81.6	-30.4	Peak	Horizontal
	4876.0	47.1	6.0	53.0	74.0	-21.0	Peak	Vertical
	7468.5	35.8	12.9	48.7	74.0	-25.3	Peak	Vertical
*	9262.0	34.3	14.5	48.9	81.6	-32.7	Peak	Vertical
*	9857.0	33.0	16.7	49.6	81.6	-32.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.6dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	2DH5	Test Channel:	78
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
	4960.0	45.9	6.1	52.0	74.0	-22.0	Peak	Horizontal
	7440.0	36.5	12.8	49.3	74.0	-24.7	Peak	Horizontal
*	8752.0	34.0	13.2	47.1	84.1	-37.0	Peak	Horizontal
*	10095.0	32.9	16.9	49.8	84.1	-34.3	Peak	Horizontal
	4960.0	41.7	6.1	47.8	74.0	-26.2	Peak	Vertical
	7366.5	35.8	12.7	48.4	74.0	-25.6	Peak	Vertical
*	8811.5	36.0	13.3	49.3	84.1	-34.8	Peak	Vertical
*	9670.0	33.6	15.4	49.0	84.1	-35.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (104.1dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	3DH5	Test Channel:	00
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
	4799.5	44.1	5.8	49.9	74.0	-24.1	Peak	Horizontal
	7341.0	34.7	12.7	47.4	74.0	-26.6	Peak	Horizontal
*	8709.5	34.4	13.0	47.4	82.8	-35.4	Peak	Horizontal
*	10188.5	33.3	17.1	50.5	82.8	-32.3	Peak	Horizontal
	4799.5	43.8	5.8	49.6	74.0	-24.4	Peak	Vertical
	7562.0	36.8	12.9	49.7	74.0	-24.3	Peak	Vertical
*	9712.5	34.0	15.6	49.6	82.8	-33.2	Peak	Vertical
*	9959.0	33.7	16.7	50.4	82.8	-32.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.8dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	3DH5	Test Channel:	39
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
	4882.0	47.8	6.0	53.8	74.0	-20.2	Peak	Horizontal
	7409.0	35.3	12.6	47.9	74.0	-26.1	Peak	Horizontal
*	8803.0	34.3	13.3	47.6	82.3	-34.7	Peak	Horizontal
*	9704.0	33.0	15.5	48.5	82.3	-33.8	Peak	Horizontal
	4882.0	46.7	6.0	52.7	74.0	-21.3	Peak	Vertical
	7434.5	35.0	12.8	47.9	74.0	-26.1	Peak	Vertical
*	8879.5	34.7	13.2	47.9	82.3	-34.4	Peak	Vertical
*	9772.0	33.3	16.2	49.5	82.3	-32.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.3dBμV/m) or 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	F9 BoomBox Speaker	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/08/21
Test Mode:	3DH5	Test Channel:	78
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
	4960.0	45.8	6.1	51.9	74.0	-22.1	Peak	Horizontal
	7519.5	35.9	12.8	48.6	74.0	-25.4	Peak	Horizontal
*	9296.0	33.8	14.5	48.3	84.7	-36.4	Peak	Horizontal
*	10486.0	33.8	17.5	51.3	84.7	-33.4	Peak	Horizontal
	4960.0	42.6	6.1	48.6	74.0	-25.4	Peak	Vertical
	7440.0	35.1	12.8	47.9	74.0	-26.1	Peak	Vertical
*	9678.5	33.9	15.4	49.4	84.7	-35.3	Peak	Vertical
*	10392.5	33.3	17.4	50.7	84.7	-34.0	Peak	Vertical

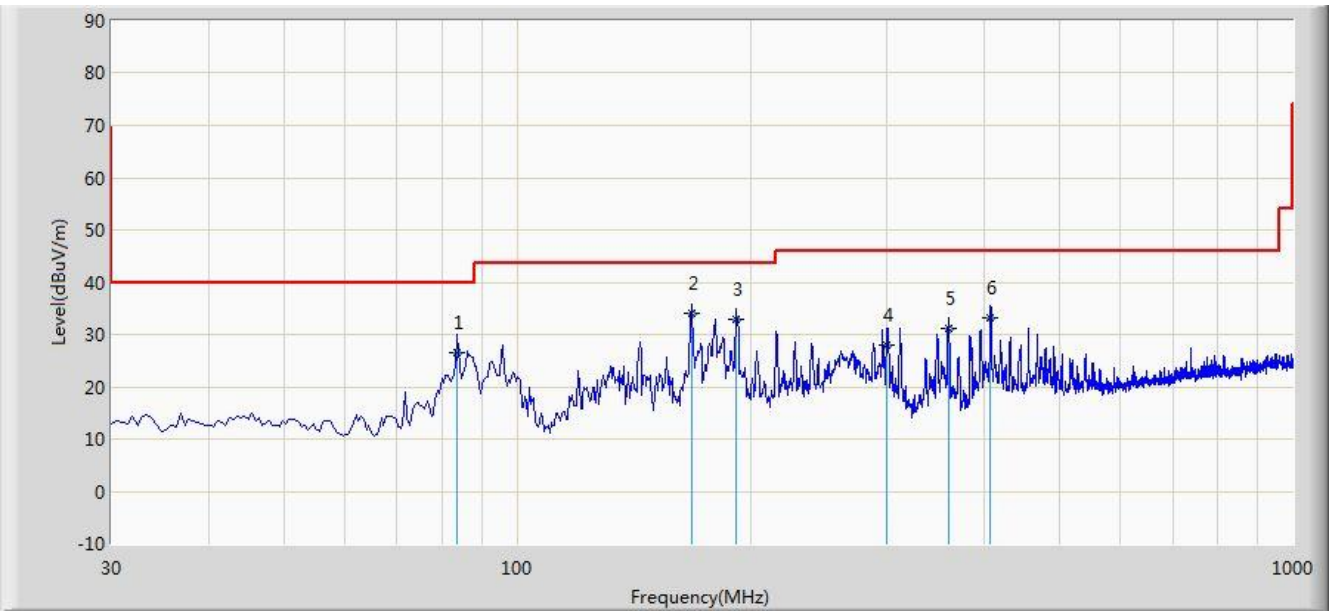
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (104.7dBμV/m) or 15.209 which is higher.

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: 2018/08/21 - 12:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Worst Case Mode: Transmit by DH5 at channel 2402MHz	



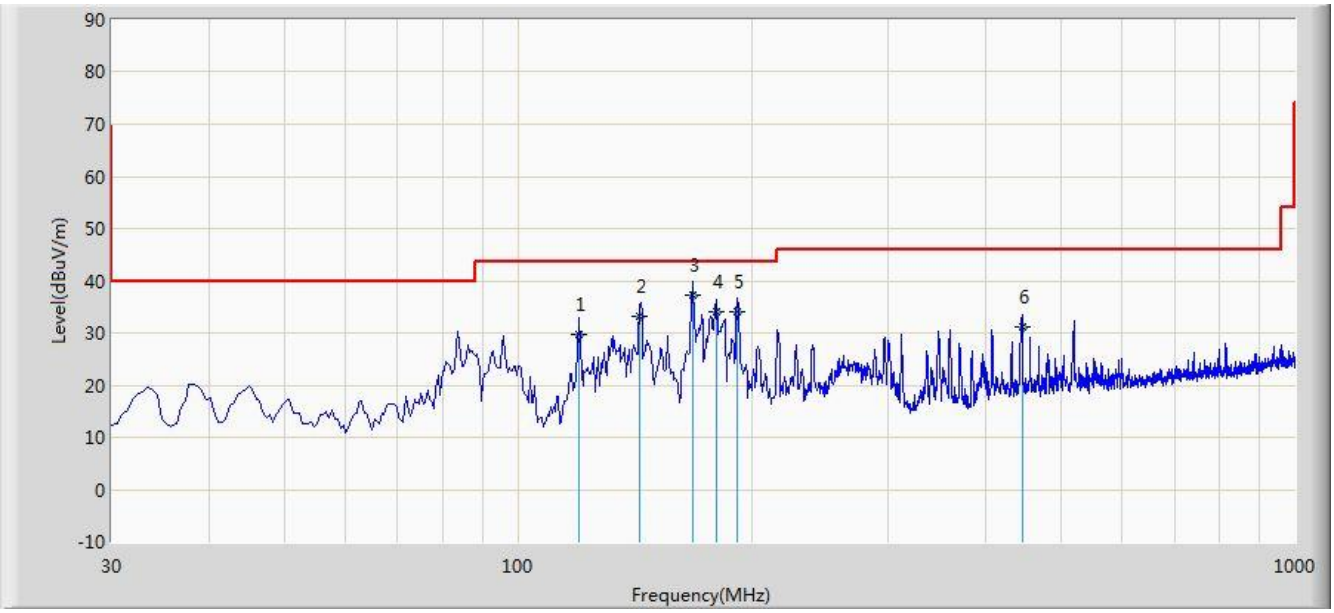
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			83.835	26.660	16.470	-13.340	40.000	10.190	QP
2		*	167.740	34.172	19.580	-9.328	43.500	14.592	QP
3			191.990	32.764	21.140	-10.736	43.500	11.624	QP
4			299.660	27.838	13.450	-18.162	46.000	14.388	QP
5			359.800	31.175	15.410	-14.825	46.000	15.765	QP
6			407.815	33.053	16.250	-12.947	46.000	16.803	QP

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

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

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

Site: AC1	Time: 2018/08/21 - 12:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Worst Case Mode: Transmit by DH5 at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			119.725	29.770	16.580	-13.730	43.500	13.190	QP
2			143.490	33.303	18.470	-10.197	43.500	14.833	QP
3		*	167.740	37.172	22.580	-6.328	43.500	14.592	QP
4			179.865	34.081	21.140	-9.419	43.500	12.940	QP
5			191.990	34.094	22.470	-9.406	43.500	11.624	QP
6			445.645	31.059	13.250	-14.941	46.000	17.810	QP

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

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

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

7.10. Radiated Restricted Band Edge Measurement

7.10.1. 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

7.10.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

7.10.3.Test Setting

Peak Field Strength Measurements

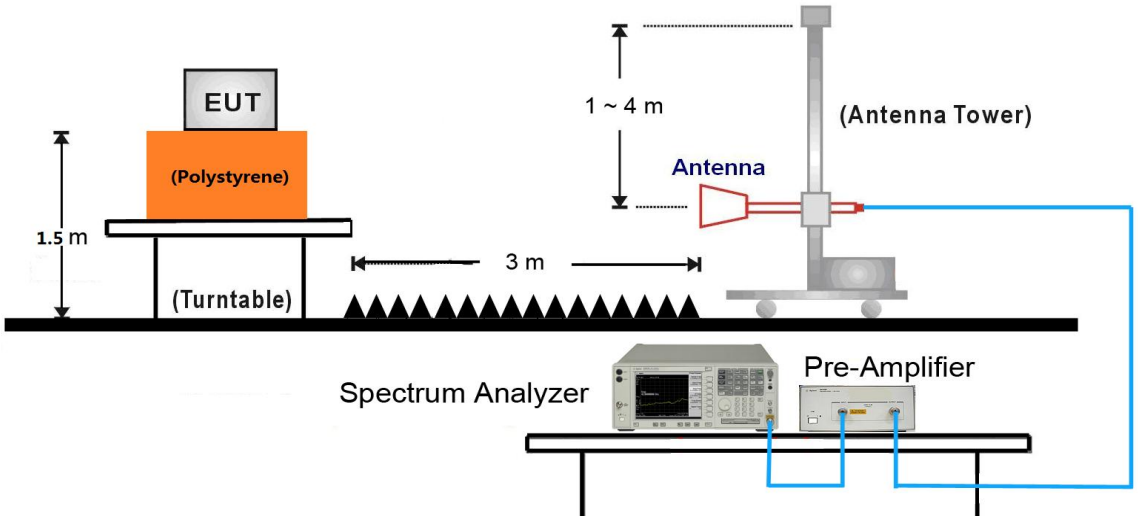
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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 ≥ 1/T
4. De 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

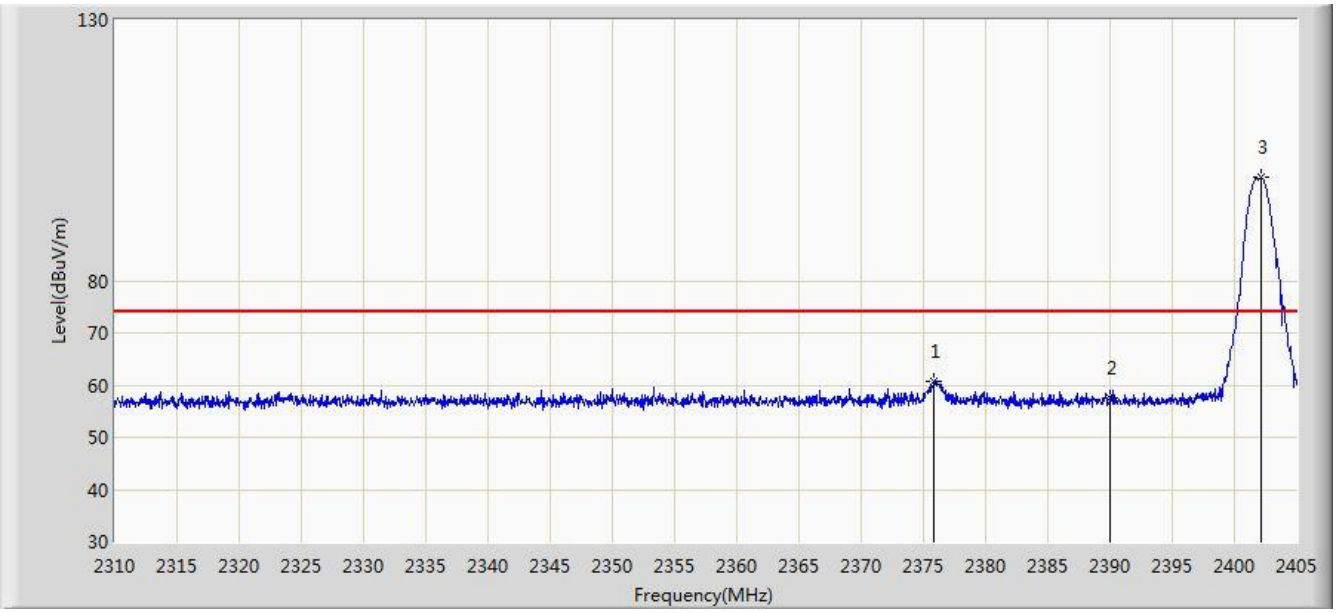
7.10.4.Test Setup

1GHz ~ 18GHz Test Setup:



7.10.5.Test Result

Site: AC1	Time: 2018/08/21 - 04:53
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2402MHz	

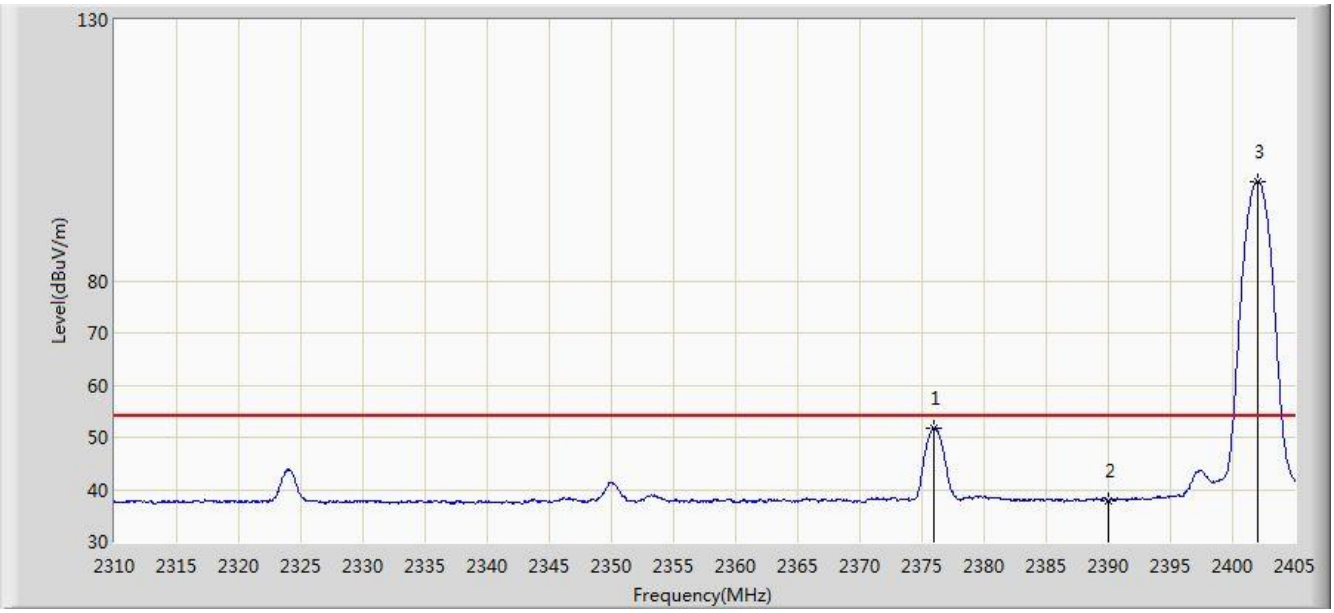


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2375.883	60.697	28.350	-13.303	74.000	32.346	PK
2		2390.000	57.540	25.213	-16.460	74.000	32.327	PK
3	*	2402.102	99.717	67.413	N/A	N/A	32.304	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:01
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2402MHz	

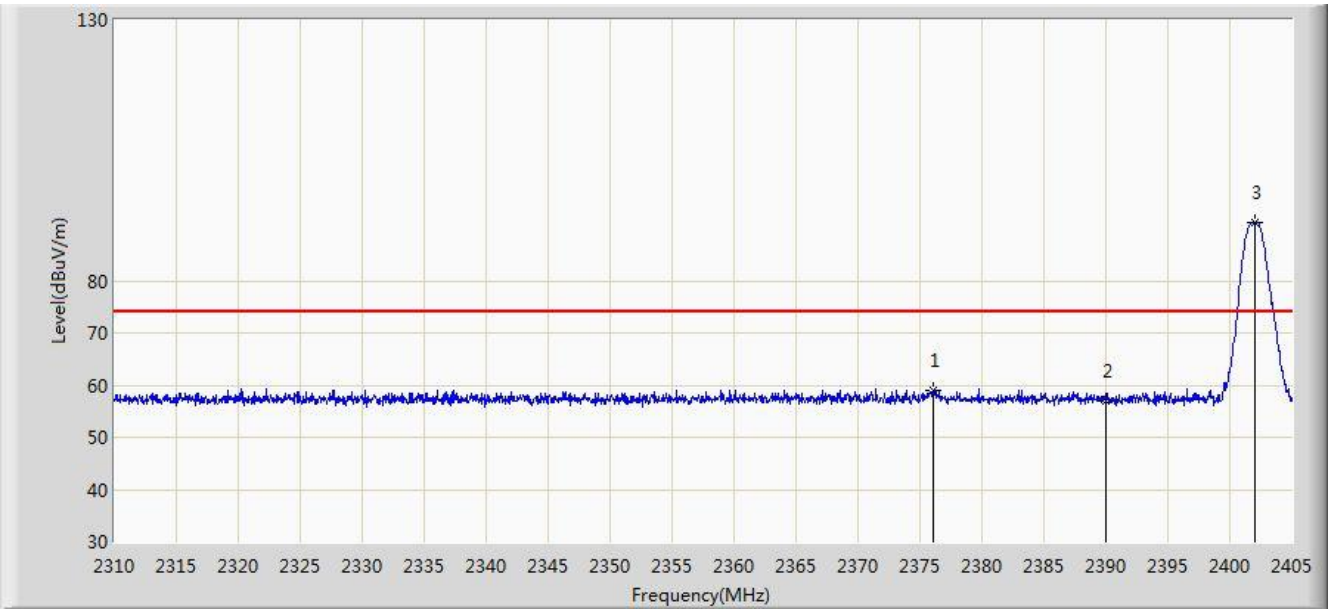


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2375.978	51.850	19.503	-2.150	54.000	32.346	AV
2		2390.000	37.766	5.439	-16.234	54.000	32.327	AV
3	*	2402.008	99.105	66.801	N/A	N/A	32.305	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:02
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2402MHz	

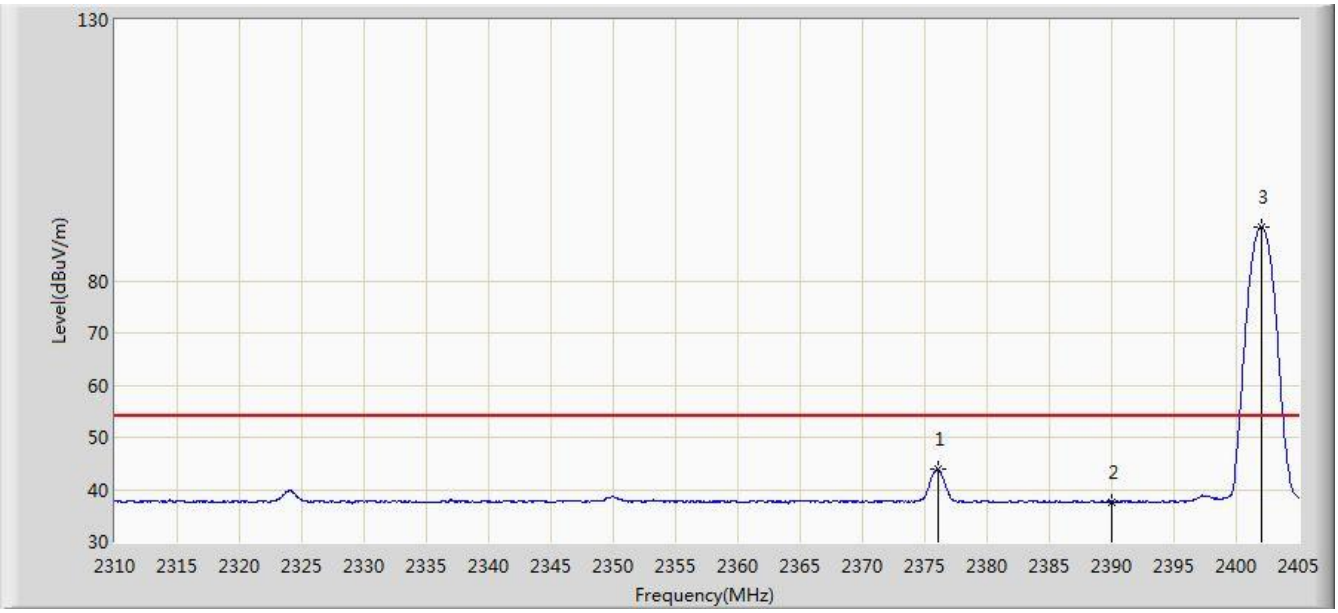


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.073	59.046	26.700	-14.954	74.000	32.346	PK
2		2390.000	56.896	24.569	-17.104	74.000	32.327	PK
3	*	2402.055	91.301	58.997	N/A	N/A	32.304	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:06
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2402MHz	

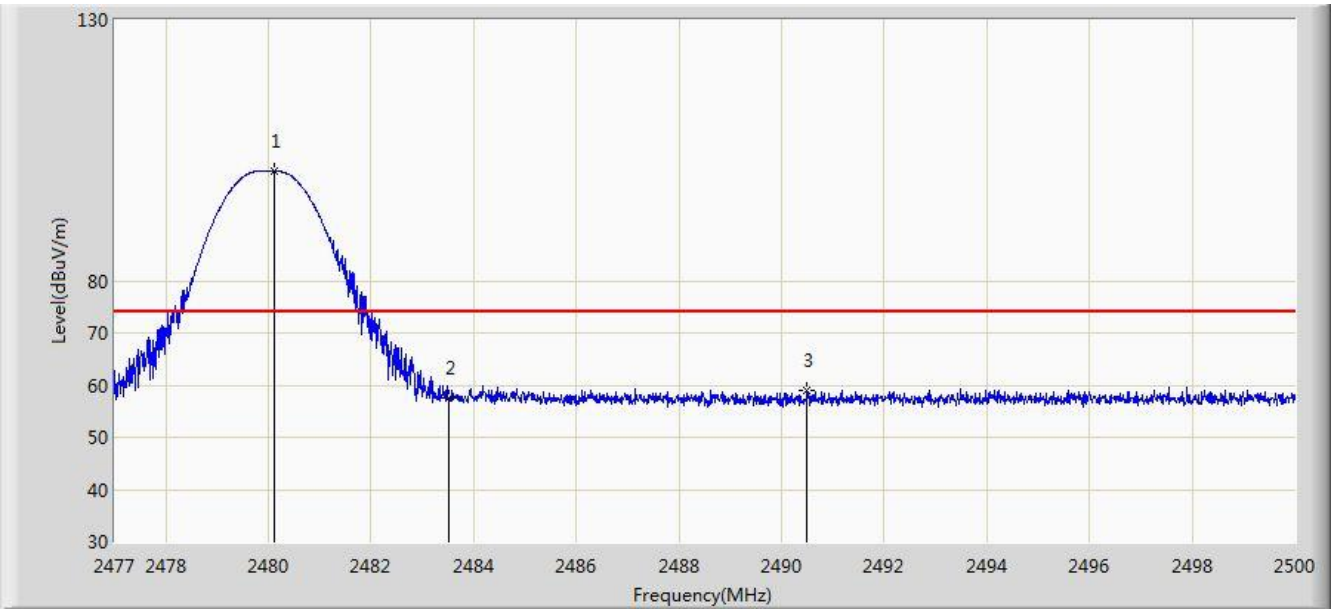


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.025	43.800	11.454	-10.200	54.000	32.346	AV
2		2390.000	37.656	5.329	-16.344	54.000	32.327	AV
3	*	2402.008	90.260	57.956	N/A	N/A	32.305	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:07
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2480MHz	

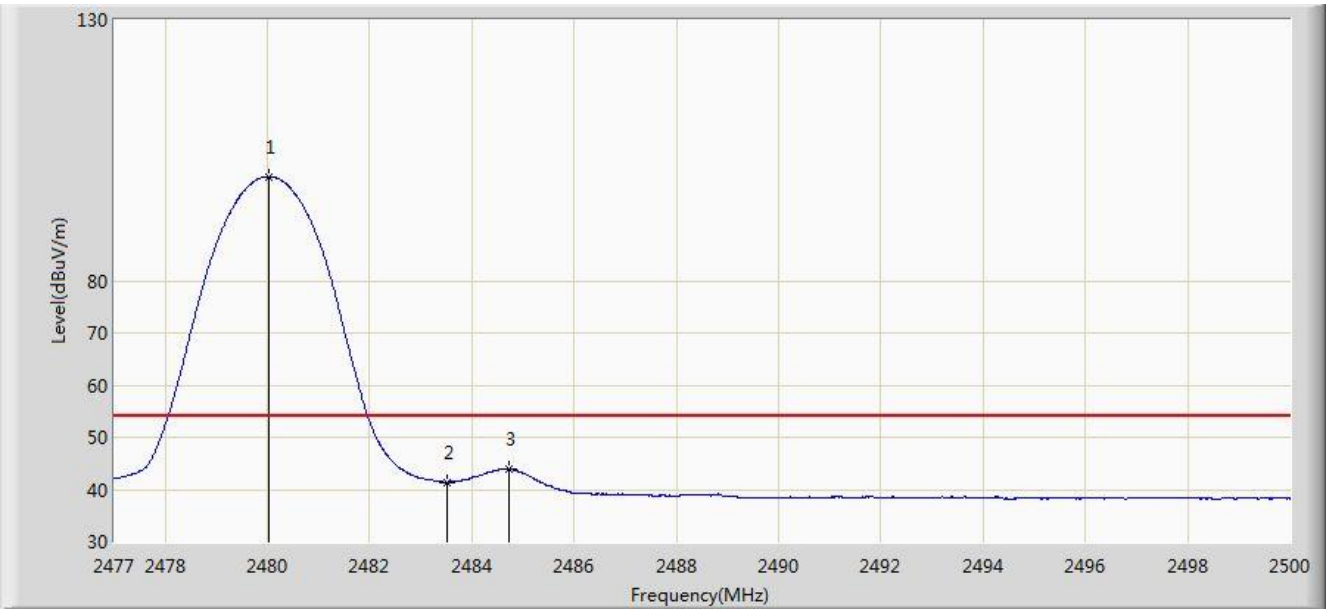


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.116	101.065	68.739	N/A	N/A	32.325	PK
2		2483.500	57.681	25.342	-16.319	74.000	32.340	PK
3		2490.490	59.094	26.727	-14.906	74.000	32.366	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:11
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2480MHz	

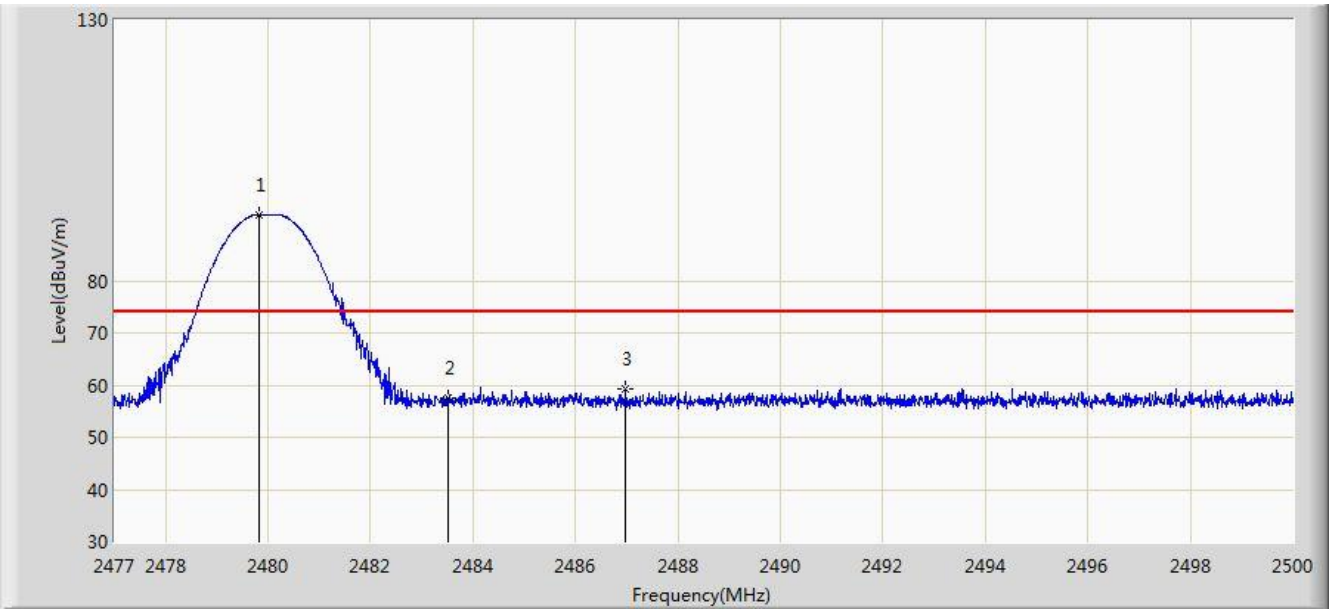


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	99.970	67.645	N/A	N/A	32.325	AV
2		2483.500	41.399	9.060	-12.601	54.000	32.340	AV
3		2484.717	43.884	11.540	-10.116	54.000	32.344	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:12
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2480MHz	

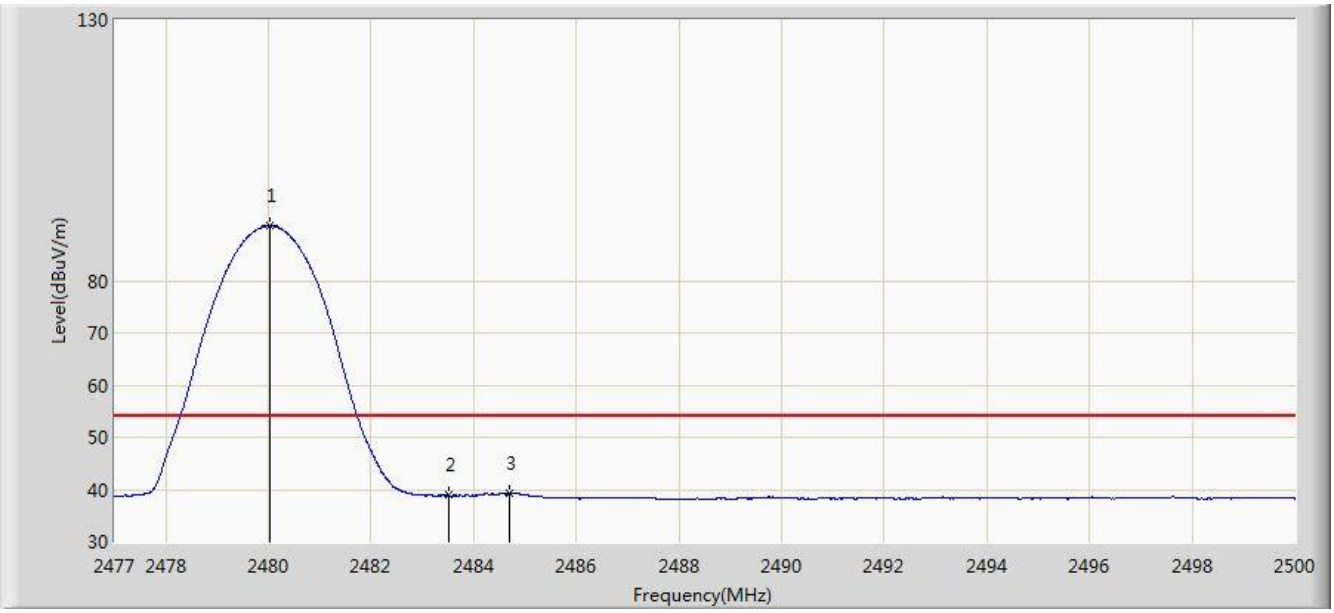


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.829	92.684	60.359	N/A	N/A	32.325	PK
2		2483.500	57.531	25.192	-16.469	74.000	32.340	PK
3		2486.970	59.283	26.930	-14.717	74.000	32.353	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:14
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by DH5 at Channel 2480MHz	

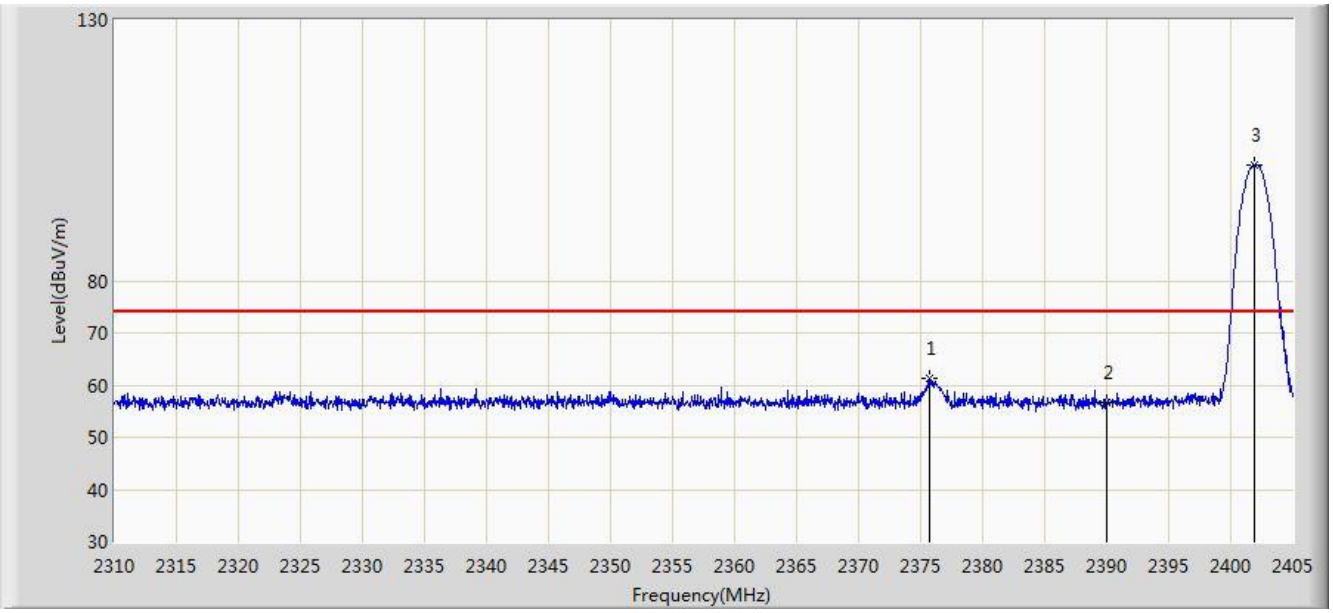


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.036	90.491	58.165	36.491	54.000	32.325	AV
2		2483.500	38.849	6.510	-15.151	54.000	32.340	AV
3		2484.694	39.287	6.943	-14.713	54.000	32.344	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:20
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2402MHz	

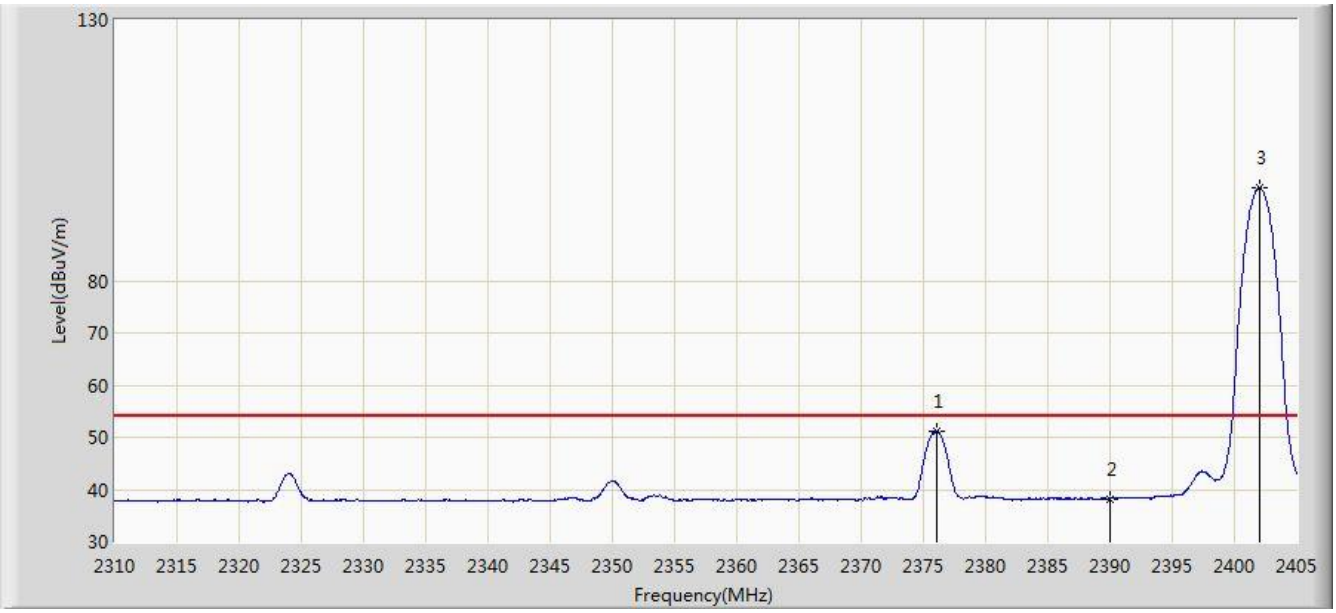


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2375.692	61.404	29.057	-12.596	74.000	32.347	PK
2		2390.000	56.566	24.239	-17.434	74.000	32.327	PK
3	*	2401.865	102.227	69.922	N/A	N/A	32.305	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:19
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2402MHz	

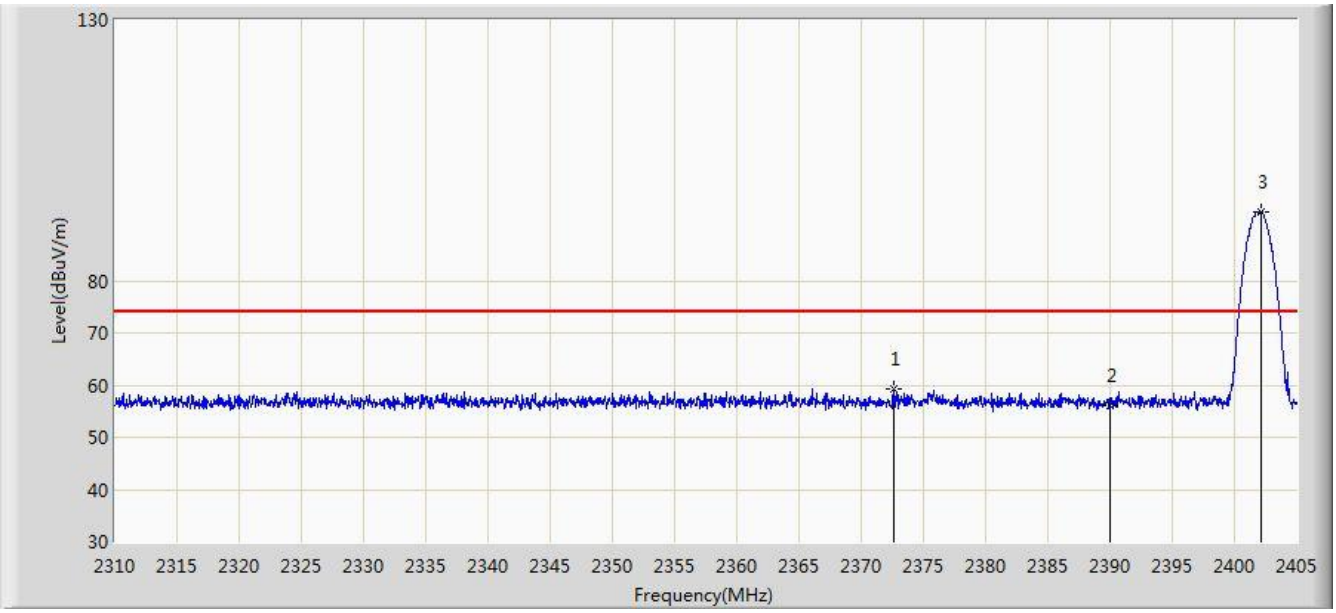


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.025	51.175	18.829	-2.825	54.000	32.346	AV
2		2390.000	38.258	5.931	-15.742	54.000	32.327	AV
3	*	2402.008	97.834	65.530	N/A	N/A	32.305	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:21
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2402MHz	

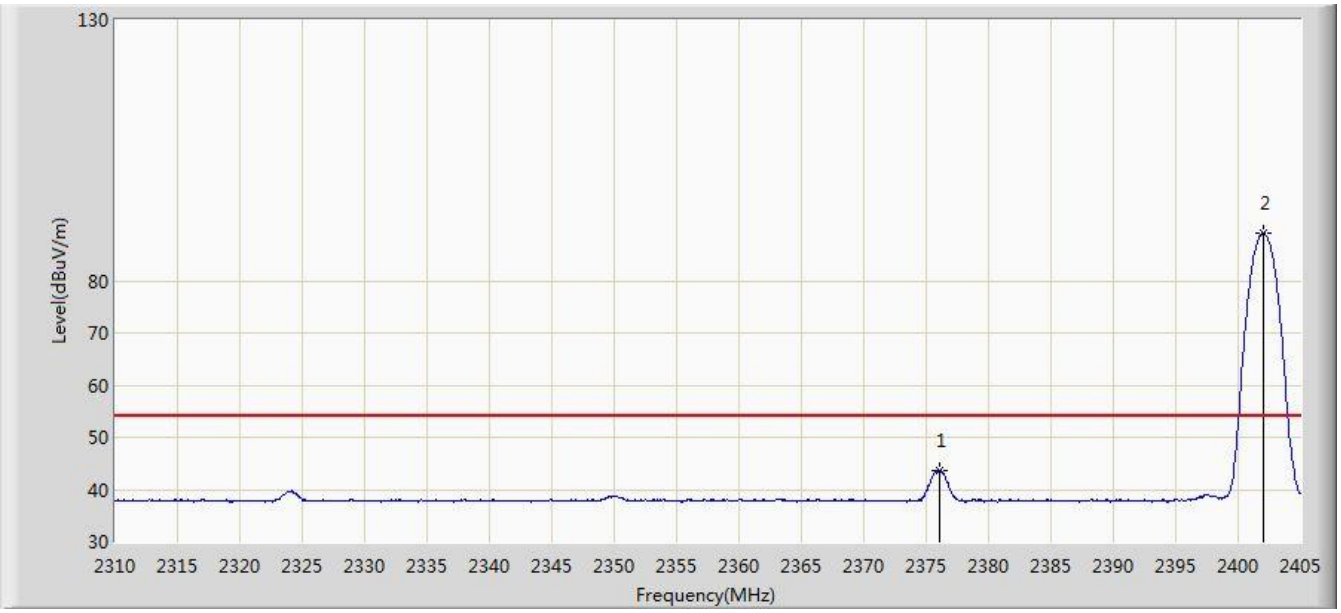


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2372.605	59.201	26.848	-14.799	74.000	32.353	PK
2		2390.000	56.134	23.807	-17.866	74.000	32.327	PK
3	*	2402.102	93.276	60.972	N/A	N/A	32.304	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:23
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2402MHz	

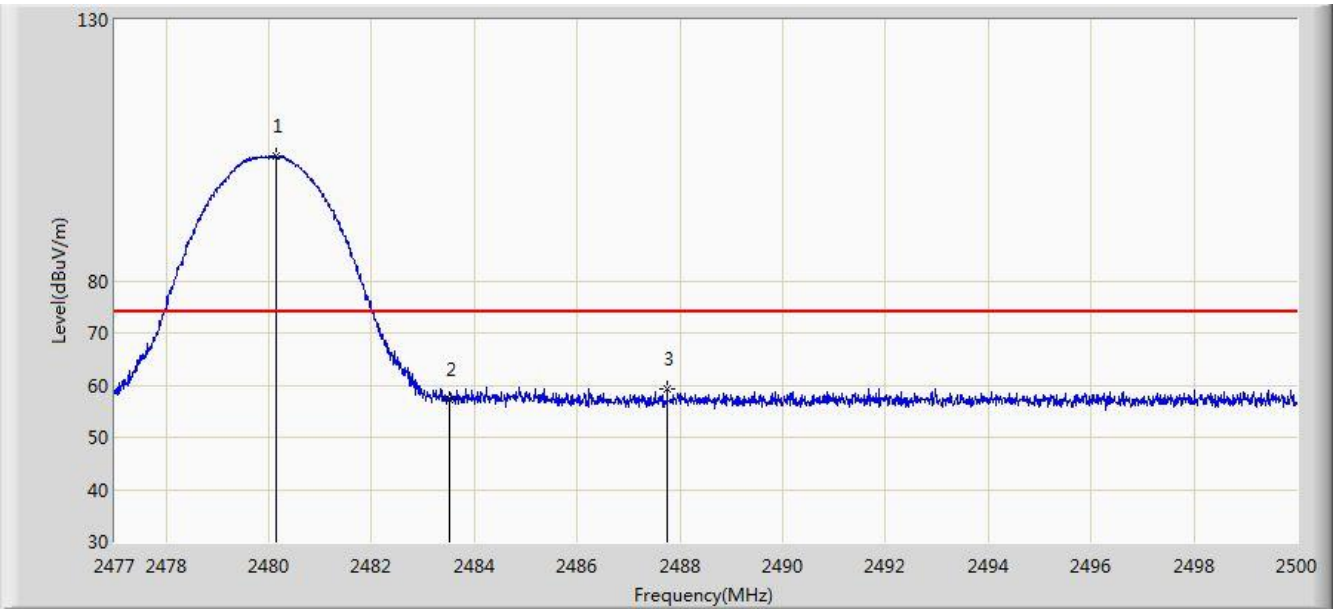


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.025	43.662	11.316	-10.338	54.000	32.346	AV
2	*	2402.008	89.162	56.858	N/A	N/A	32.305	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:26
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2480MHz	

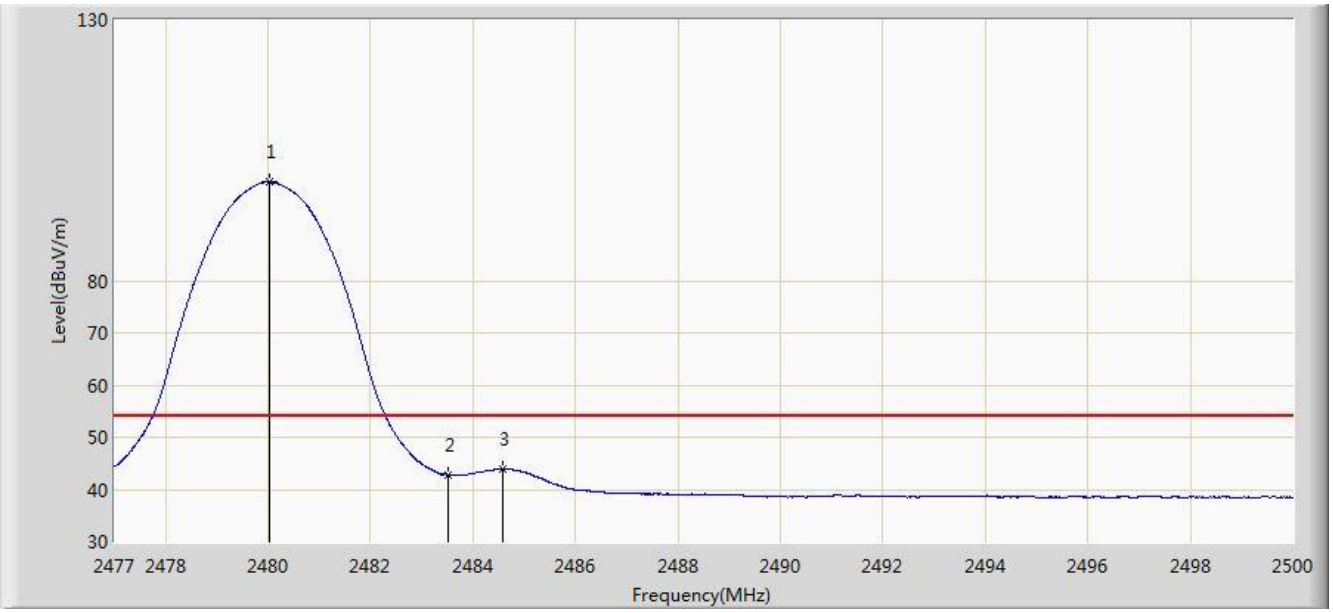


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.128	104.052	71.726	N/A	N/A	32.326	PK
2		2483.500	57.185	24.846	-16.815	74.000	32.340	PK
3		2487.752	59.417	27.061	-14.583	74.000	32.356	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:27
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2480MHz	

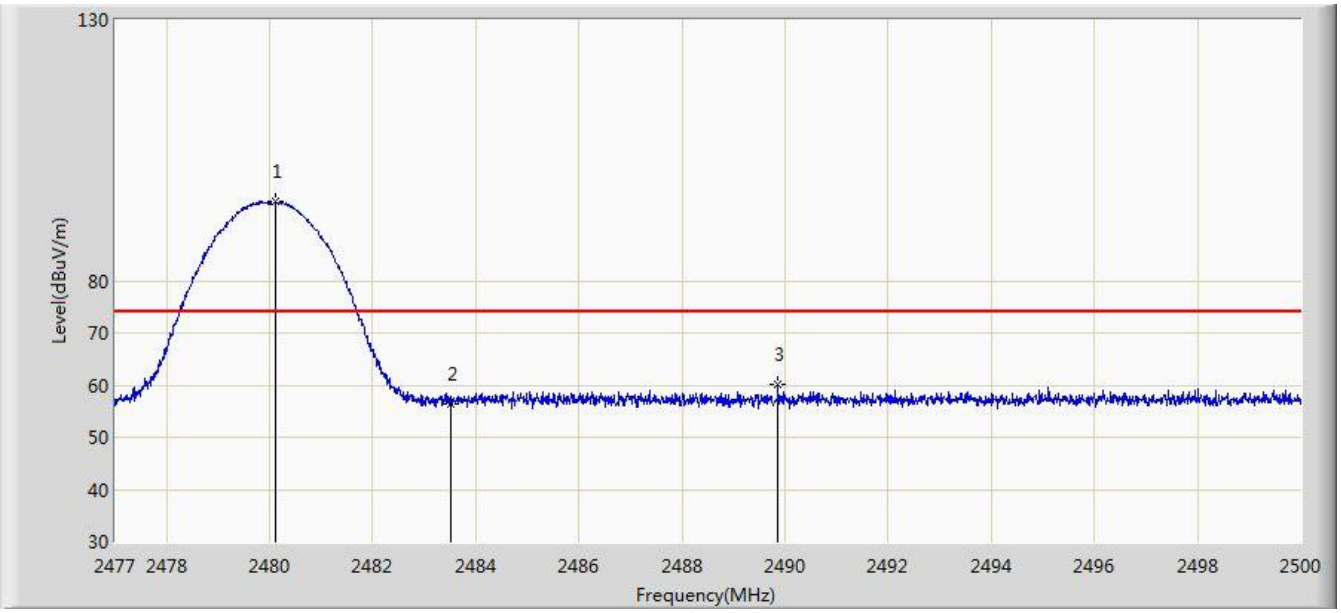


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.025	98.908	66.582	N/A	N/A	32.325	AV
2		2483.500	42.880	10.541	-11.120	54.000	32.340	AV
3		2484.590	43.904	11.561	-10.096	54.000	32.344	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:30
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2480MHz	

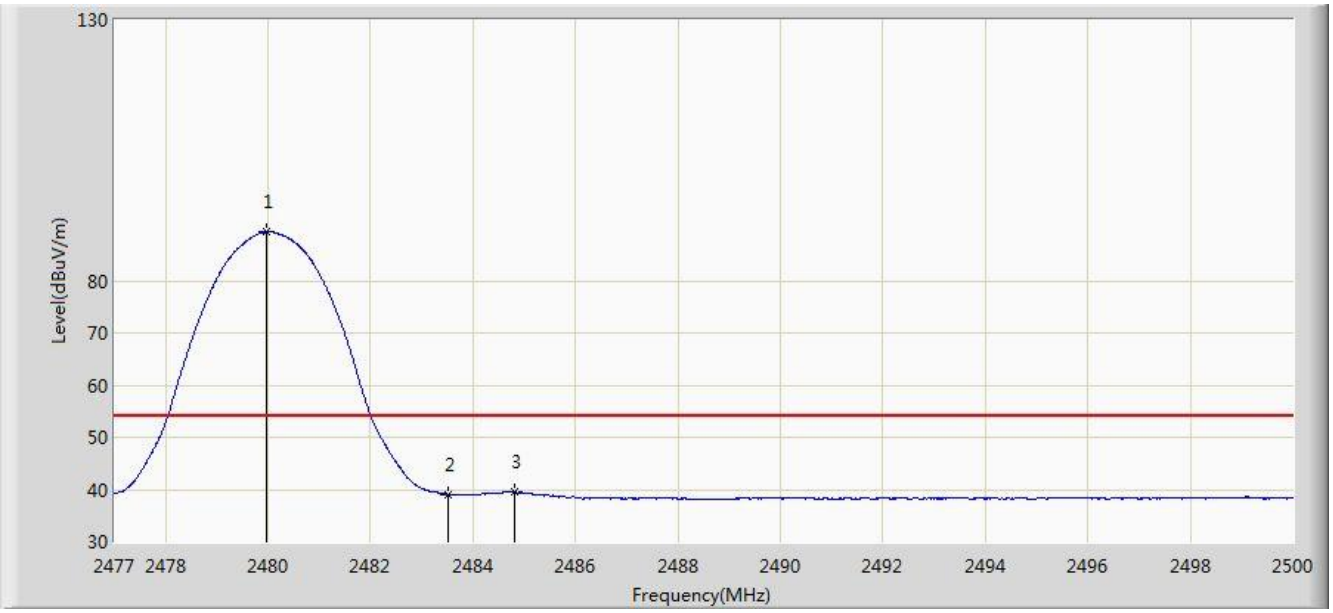


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.116	95.109	62.783	N/A	N/A	32.325	PK
2		2483.500	56.294	23.955	-17.706	74.000	32.340	PK
3		2489.868	60.216	27.852	-13.784	74.000	32.364	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:32
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at Channel 2480MHz	

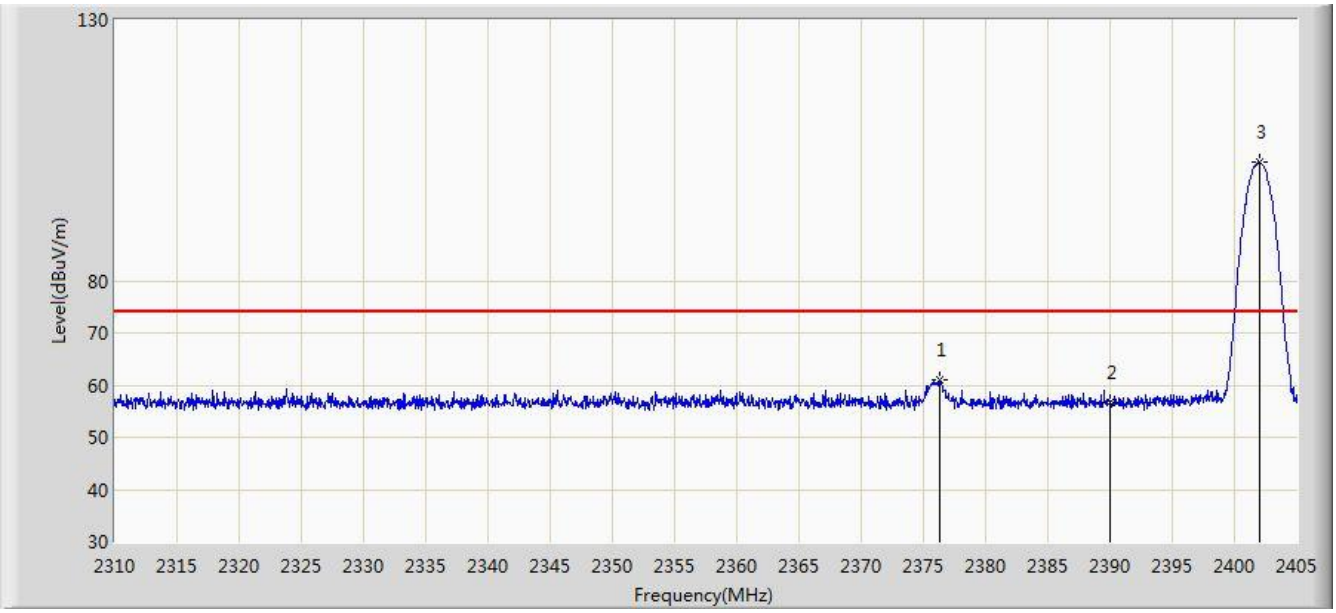


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.979	89.354	57.029	N/A	N/A	32.325	AV
2		2483.500	39.102	6.763	-14.898	54.000	32.340	AV
3		2484.809	39.531	7.187	-14.469	54.000	32.344	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:35
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2402MHz	

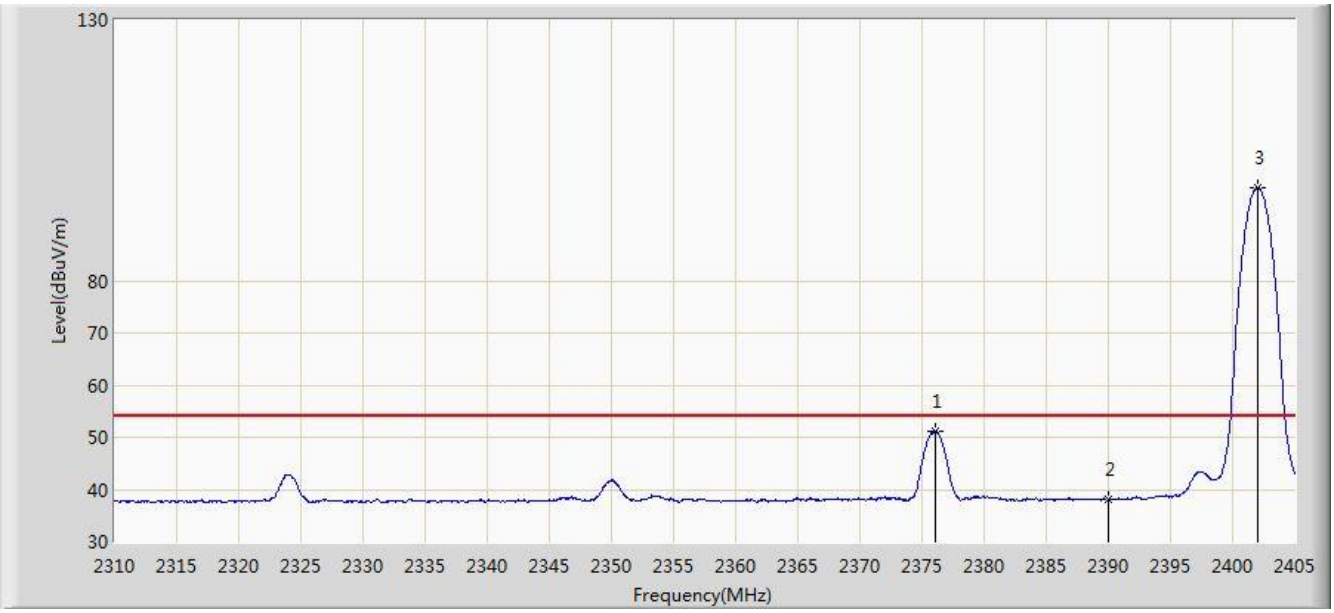


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.262	60.988	28.642	-13.012	74.000	32.345	PK
2		2390.000	56.725	24.398	-17.275	74.000	32.327	PK
3	*	2402.008	102.841	70.537	N/A	N/A	32.305	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:35
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2402MHz	

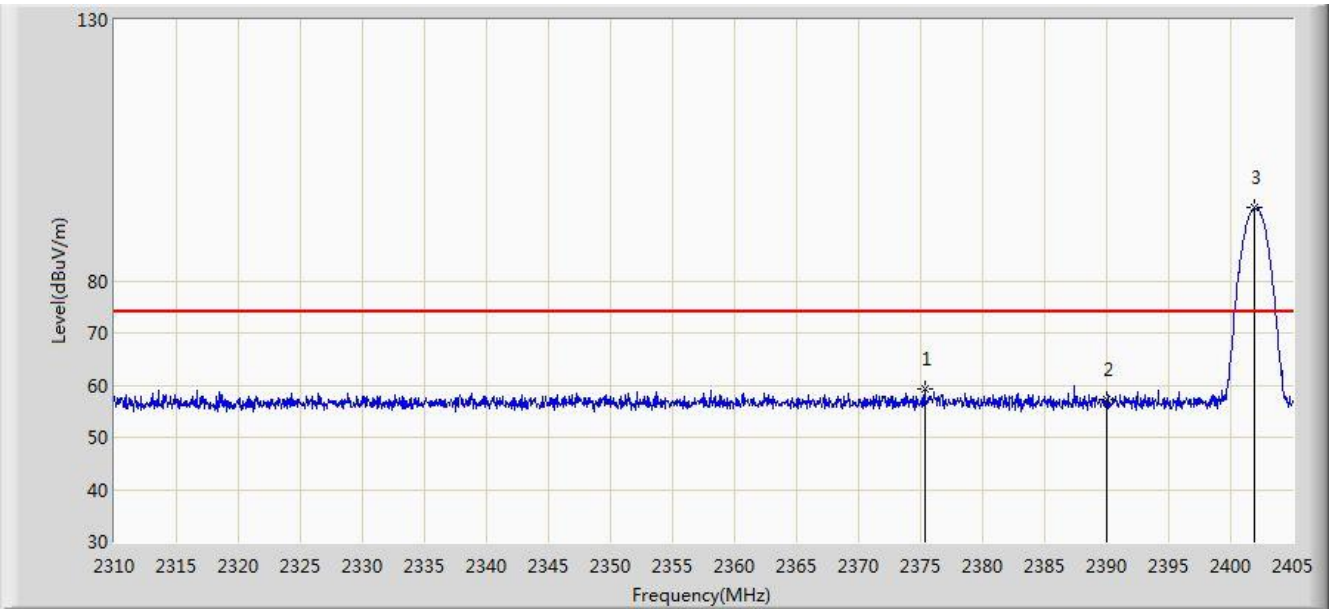


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.025	51.153	18.807	-2.847	54.000	32.346	AV
2		2390.000	38.140	5.813	-15.860	54.000	32.327	AV
3	*	2402.008	97.808	65.504	N/A	N/A	32.305	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:37
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2402MHz	

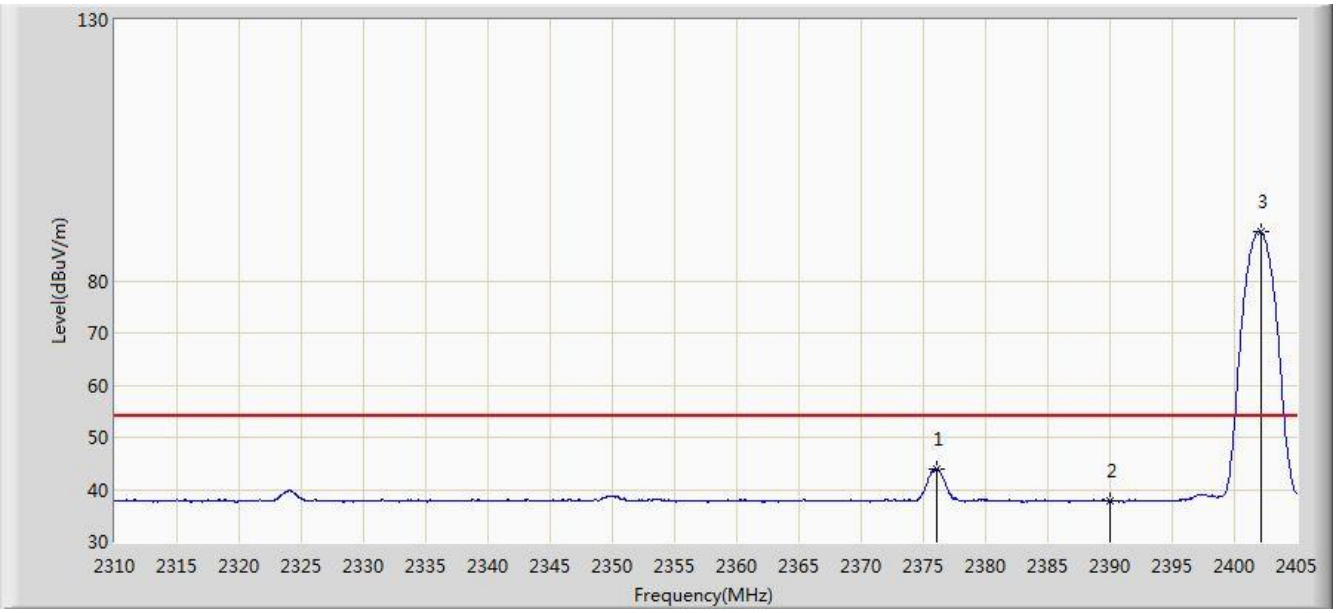


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2375.312	59.262	26.914	-14.738	74.000	32.348	PK
2		2390.000	57.209	24.882	-16.791	74.000	32.327	PK
3	*	2401.960	93.965	61.660	N/A	N/A	32.305	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:38
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2402MHz	

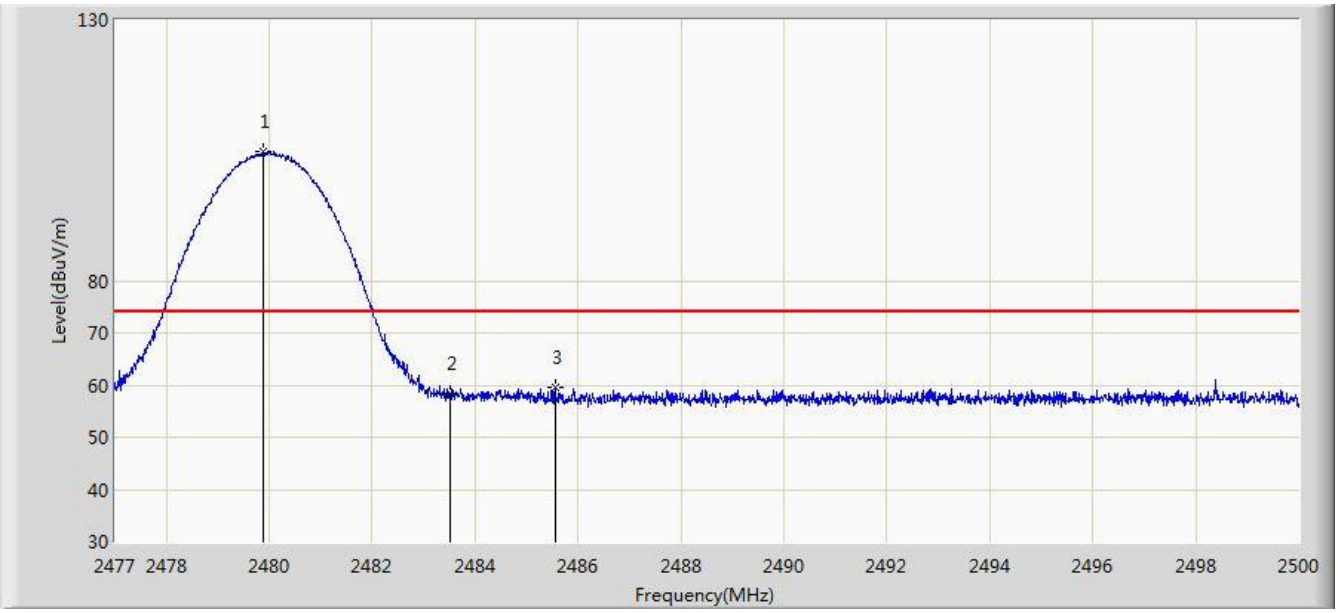


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.025	43.929	11.583	-10.071	54.000	32.346	AV
2		2390.000	37.844	5.517	-16.156	54.000	32.327	AV
3	*	2402.103	89.395	57.091	N/A	N/A	32.304	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:40
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2480MHz	

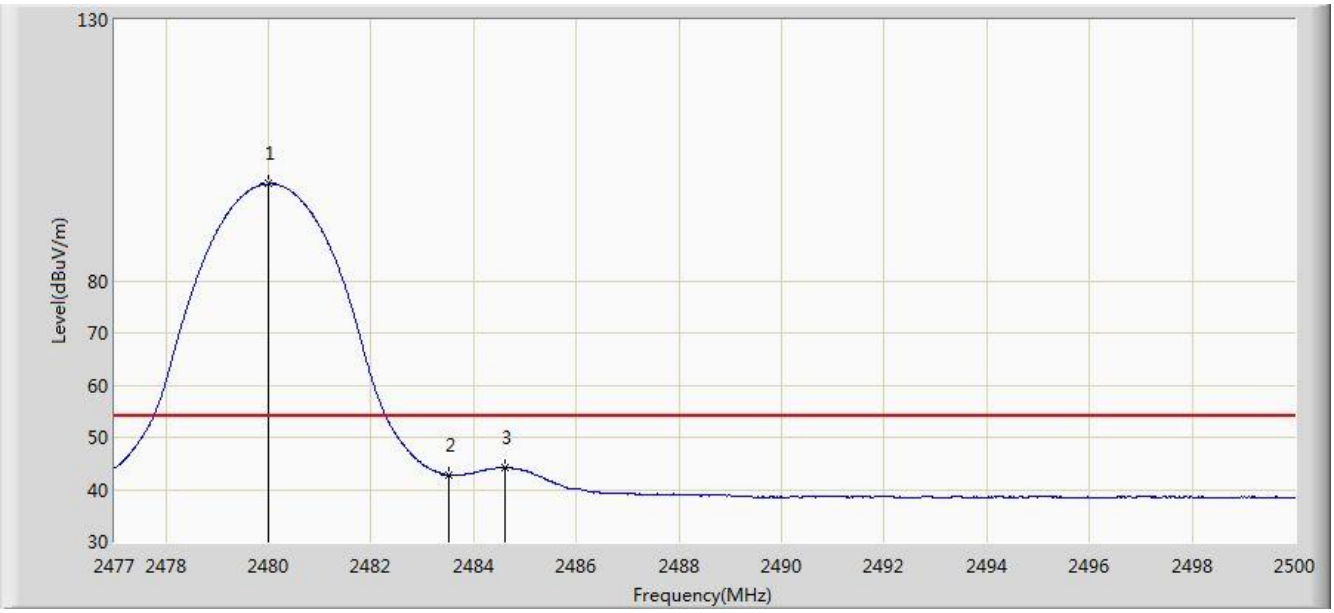


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.875	104.740	72.415	N/A	N/A	32.325	PK
2		2483.500	58.425	26.086	-15.575	74.000	32.340	PK
3		2485.556	59.427	27.080	-14.573	74.000	32.347	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:42
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2480MHz	

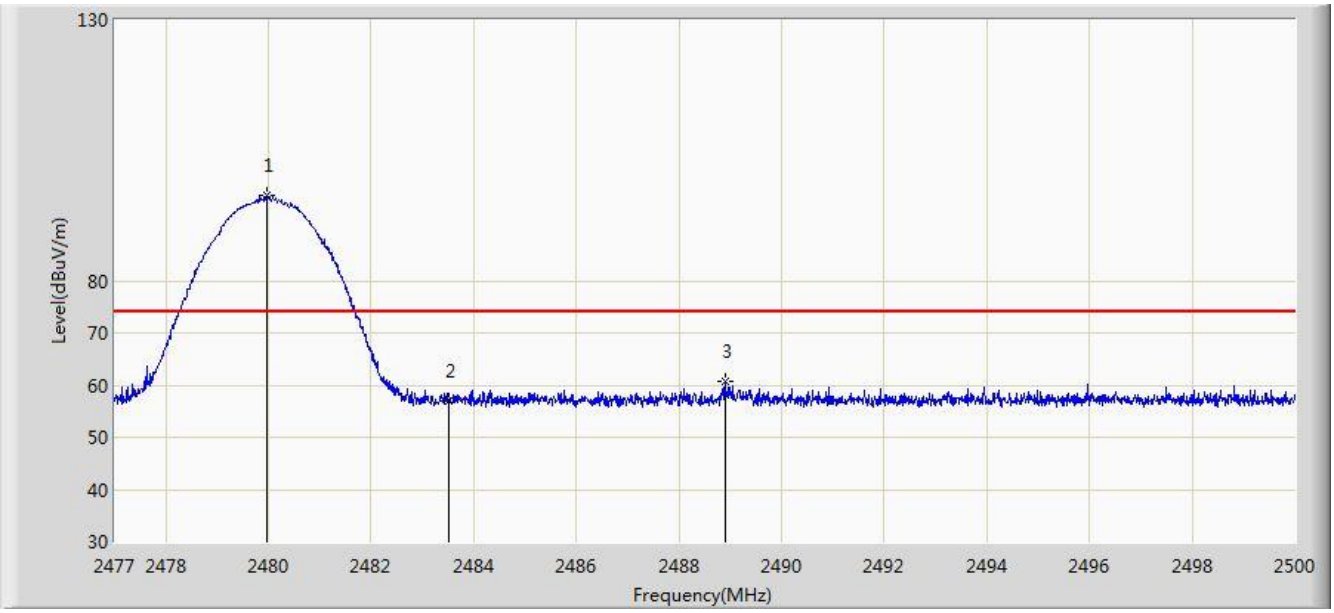


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.990	98.556	66.231	N/A	N/A	32.325	AV
2		2483.500	42.772	10.433	-11.228	54.000	32.340	AV
3		2484.613	44.159	11.815	-9.841	54.000	32.344	AV

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

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

Site: AC1	Time: 2018/08/21 - 05:45
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2480MHz	

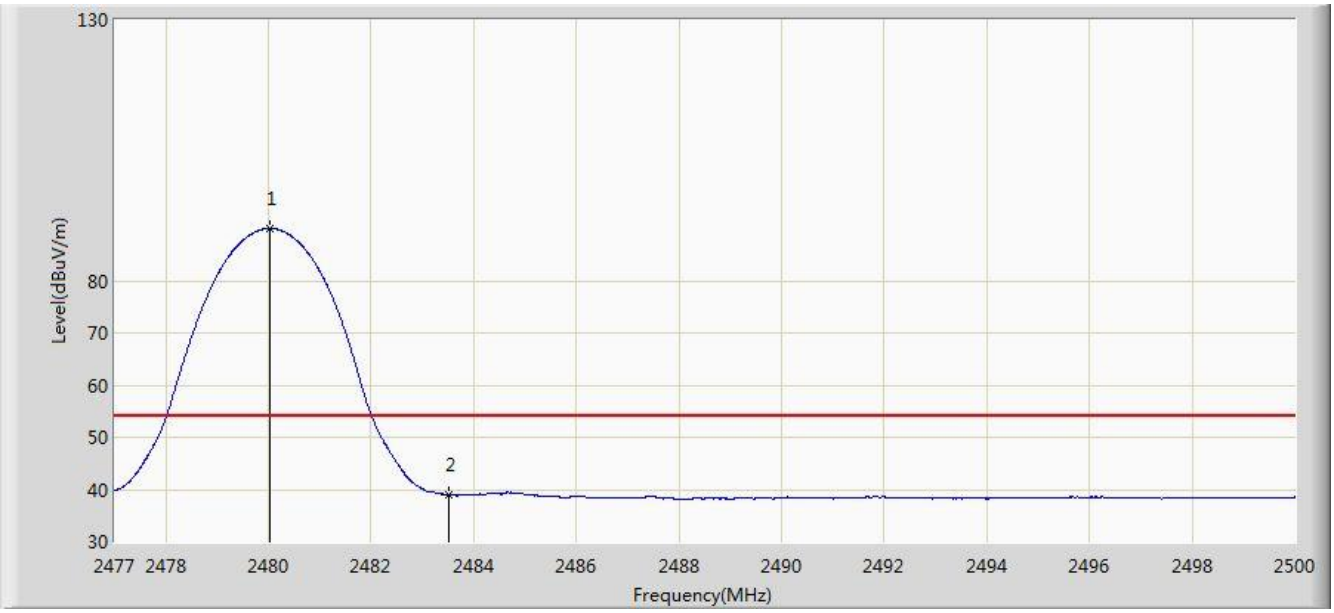


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.979	96.291	63.966	N/A	N/A	32.325	PK
2		2483.500	56.941	24.602	-17.059	74.000	32.340	PK
3		2488.891	60.820	28.460	-13.180	74.000	32.360	PK

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

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

Site: AC1	Time: 2018/08/21 - 05:47
Limit: FCC_Part15.209_RE	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: F9 BoomBox Speaker	Power: DC 3.3V
Test Mode: Transmit by 3DH5 at Channel 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.013	90.012	57.687	N/A	N/A	32.325	AV
2		2483.500	38.939	6.600	-15.061	54.000	32.340	AV

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

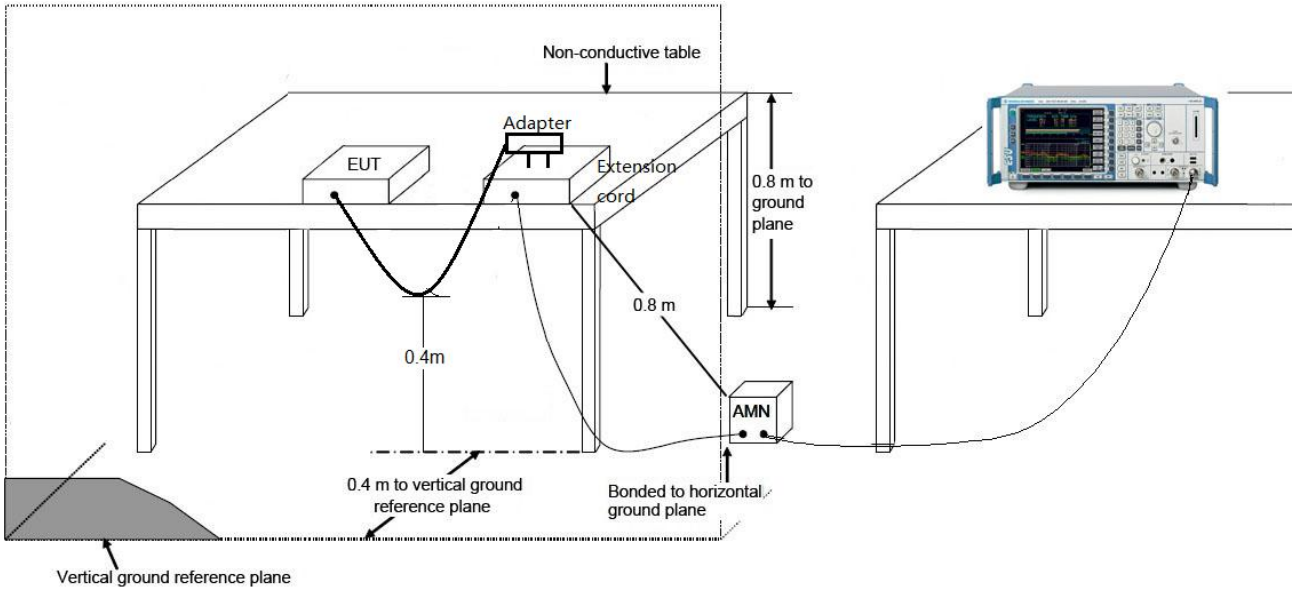
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

7.11. AC Conducted Emissions Measurement

7.11.1.Test Limit

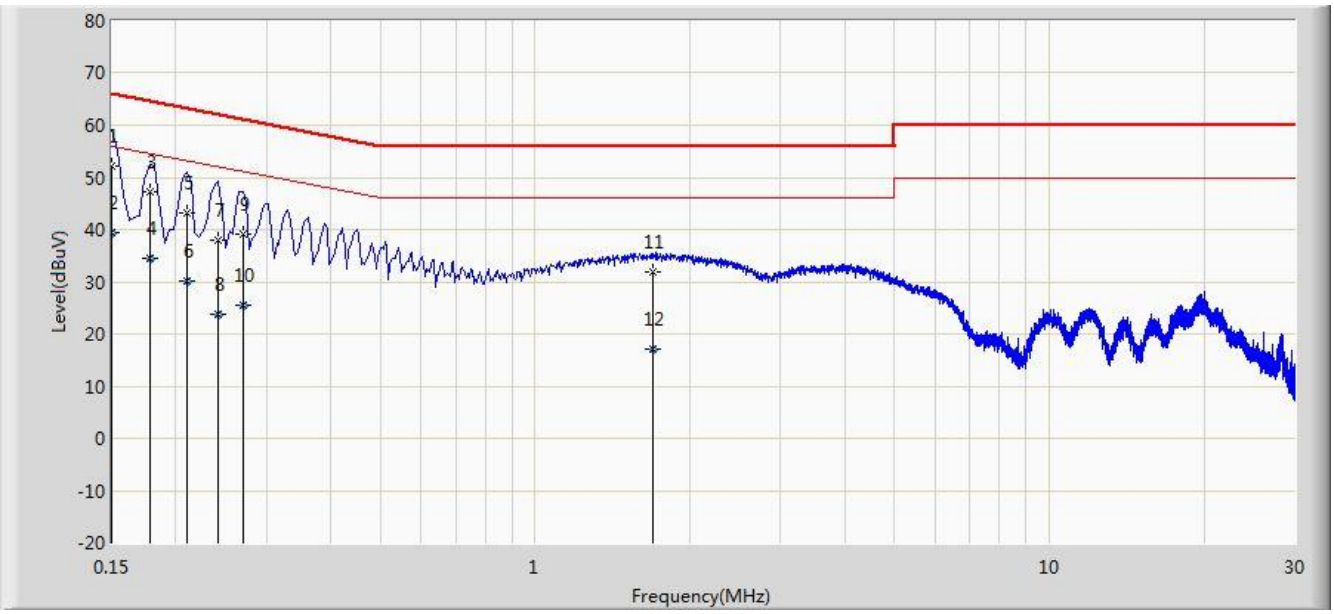
FCC 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

7.11.2.Test Setup



7.11.3.Test Result

Site: SR2	Time: 2018/08/22 - 14:52
Limit: FCC_Part15.207_CE_AC Power	Engineer: Messiah Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: F9 BoomBox Speaker	Power: AC 120V/60Hz
Test Mode: Worst case	

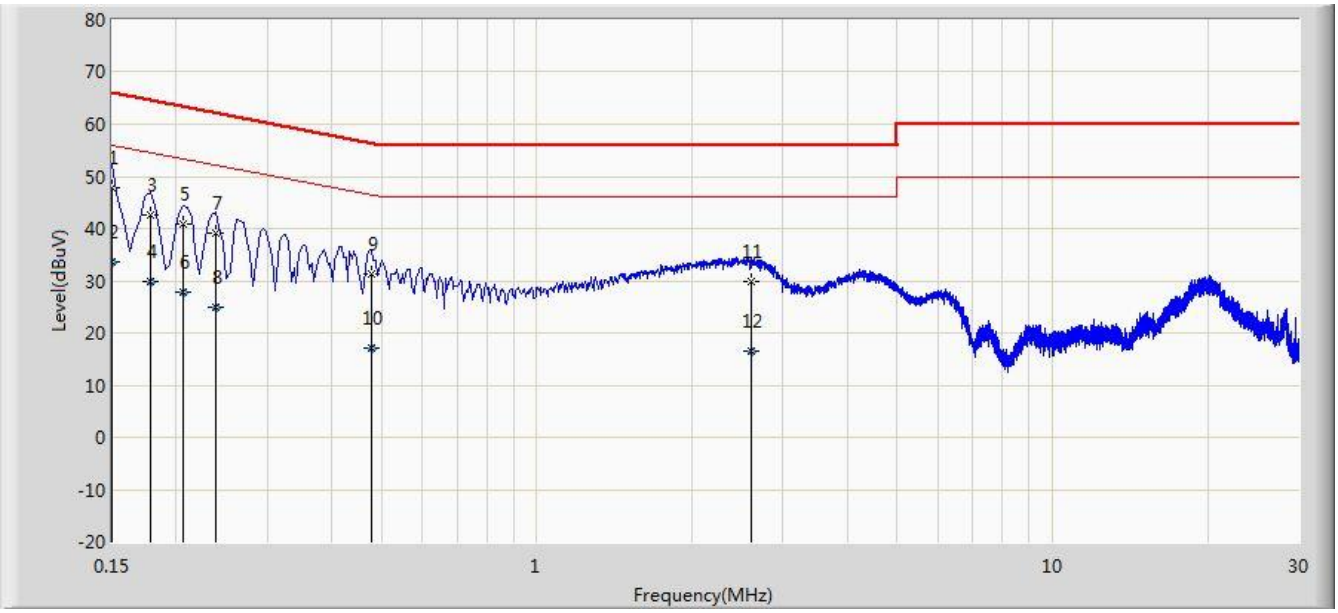


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.150	52.258	41.090	-13.742	66.000	11.168	QP
2			0.150	39.341	28.173	-16.659	56.000	11.168	AV
3			0.178	47.132	37.074	-17.446	64.578	10.058	QP
4			0.178	34.370	24.312	-20.208	54.578	10.058	AV
5			0.210	43.269	33.301	-19.936	63.205	9.969	QP
6			0.210	30.046	20.077	-23.160	53.205	9.969	AV
7			0.242	38.066	28.108	-23.962	62.027	9.958	QP
8			0.242	23.755	13.797	-28.272	52.027	9.958	AV
9			0.270	39.093	29.113	-22.025	61.118	9.980	QP
10			0.270	25.475	15.495	-25.643	51.118	9.980	AV
11			1.694	31.810	21.928	-24.190	56.000	9.882	QP
12			1.694	17.126	7.245	-28.874	46.000	9.882	AV

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

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

Site: SR2	Time: 2018/08/22 - 14:57
Limit: FCC_Part15.207_CE_AC Power	Engineer: Messiah Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: F9 BoomBox Speaker	Power: AC 120V/60Hz
Test Mode: Worst case	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.150	47.749	36.607	-18.251	66.000	11.142	QP
2			0.150	33.659	22.517	-22.341	56.000	11.142	AV
3			0.178	42.704	32.655	-21.874	64.578	10.049	QP
4			0.178	29.994	19.944	-24.585	54.578	10.049	AV
5			0.206	40.766	30.765	-22.599	63.365	10.001	QP
6			0.206	27.869	17.867	-25.497	53.365	10.001	AV
7			0.238	39.012	29.020	-23.154	62.166	9.992	QP
8			0.238	24.890	14.898	-27.275	52.166	9.992	AV
9			0.478	31.163	20.992	-25.211	56.374	10.170	QP
10			0.478	17.119	6.948	-29.255	46.374	10.170	AV
11			2.598	29.757	19.900	-26.243	56.000	9.857	QP
12			2.598	16.620	6.763	-29.380	46.000	9.857	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 **F9 BoomBox Speaker** is in compliance with Part 15C of the FCC Rules.

The End

Appendix A – Test Setup Photograph

Refer to “1808RSU017-UT” file.

Appendix B – EUT Photograph

Refer to “1808RSU017-UE” file.