

商品電磁相容形式實驗報告

產品名稱	Active Speaker
申請廠商	HERMES SELLIER
製造廠商	HERMES SELLIER
生產廠商	CC LAB
銘牌標示及主要特性	100-240V~ 50-60Hz 200W
商標或廠牌	Hermes
型式（號）	Boom Box Vinyl
該產品樣品試驗依據之試驗標準	LP0002:2018
試驗結果	合格

受理日期：2019年10月07日
完成日期：2019年11月26日

蓋章：



NCC RADIO TEST REPORT**Report Reference No.** M80620J831-01

Compiled by (+ signature) Kevin Bothmann

Approved by (+ signature) Jay Gandhi




Date of issue 2019-11-26

Applicant's name HERMES SELLIER

Address 24 rue du Fg Saint-Honore 75008 Paris

Manufacture's Name HERMES SELLIER

Address 24 rue du Fg Saint-Honore 75008 Paris

Test specification:

Standard LP0002: 2018

Test procedure EIA 603、ANSI、FCC/47 CFR/2.1046、2.1047、2.1049、2.1051、
2.1053 and 2.1055

Non-standard test method... N/A

Test item description

Product name : Active Speaker

Trademark : Hermes

Model and/or type reference : Boom Box Vinyle

Rating(s) : 100-240V~ 50-60Hz 200W

**Testing Laboratory
information:**

Testing Laboratory Name : Electro Magnetic Test, Inc.

Address : 1547 Plymouth Street, Mountain View, CA 94043

CAB Identifier Number : US0036

Tel : (650) 965-4000

Fax..... : (650) 965-3000

E-mail..... : jgandhi@emtlabs.com

Testing

Date of receipt of test item Oct. 07, 2019

Date (s) of performance of tests Oct. 07, 2019 ~ Nov. 26, 2019

Date of Issue Nov. 26, 2019

Test Result..... **Pass**

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

COUNTRY	AGENCY	IDENTIFYING #
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: 90576
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804
Japan	Voluntary Control Council For Interference (VCCI)	See Below
	Open Field Test Site "A"	R-589
	Mains Conducted Emissions Test Site "A"	C-604
	Telecom Conducted Emissions Test Site "A"	T-1655
	3 Meter Semi-Anechoic Chamber Site "E"	R-3227
	3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)	G-219
	Mains Conducted Emissions Test Site "E"	C-35793
	Telecom Conducted Emissions Test Site "E"	T-1715
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia / New Zealand	Australian Communications Authority (AUSTEL)	*

***THESE AGENCIES DO NOT ISSUE AN IDENTIFYING NUMBER TO TEST LABS.**

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

LP0002 : 2018• revised			
Standard Section	Test Item	Judgment	Remark
2.3	Conducted Emission	PASS	None
3.10.1(5)/2.8	Radiated Spurious Emission	PASS	None
3.10.1(2)	Peak Output Power	PASS	None
3.10.1(6.1.1)	Occupied Bandwidth	PASS	None
3.10.1(6.1.1)	Hopping Channel Separation	PASS	None
3.10.1(6.1.2)	Number of Hopping Frequency	PASS	None
3.10.1(6.1.2)	Dwell Time	PASS	None
3.10.1(5)/2.8	Restricted Bands	PASS	None
3.10.1(3)	Antenna Requirement	PASS	None

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The product support for Bluetooth classic rate / EDR and low energy connections Bluetooth 4.2 Dual-mode, this report is classic rate / EDR connection test mode, for low energy connection mode please refers to the report number M80620J831-02.

1 1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	1.38dB
2	Radiated Emission Test	3.17dB
3	RF power,conducted	0.16dB
4	Spurious emissions,conducted	0.21dB
5	All emissions,radiated(<1G)	4.68dB
6	All emissions,radiated(>1G)	4.89dB

2. 1GENERAL INFORMATION

1.1 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Active Speaker	
Trade Name	Hermes	
Model Name	Boom Box Vinyl	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	The EUT is a Active Speaker.	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK(1Mbps) π/4 DQPSK(2Mbps) 8DPSK(3Mbps)
	Number Of Channel	79 CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain(Peak)	0.11dBi
	Output Power:	1Mbps Mode: 3.966dBm (Max.) 3Mbps Mode: 3.436dBm (Max.)
Channel List	Please refer to the Note 2.	
Power Rating	AC 110V/60Hz	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

- 3.

Table for Filed Antenna

	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	Shenzhen RF-Link Technology Co., Ltd	BPF6425A_64215	PCB Antenna	N/A	0.11dBi	N/A

1.2 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	1Mbps
Mode 2	2Mbps
Mode 3	3Mbps

For Conducted Emission	
Final Test Mode	Description
Mode 1	CH00 /CH39 /CH78
Mode 3	CH00 /CH39 /CH78

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00 /CH39 /CH78
Mode 3	CH00 /CH39 /CH78

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

1.3 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

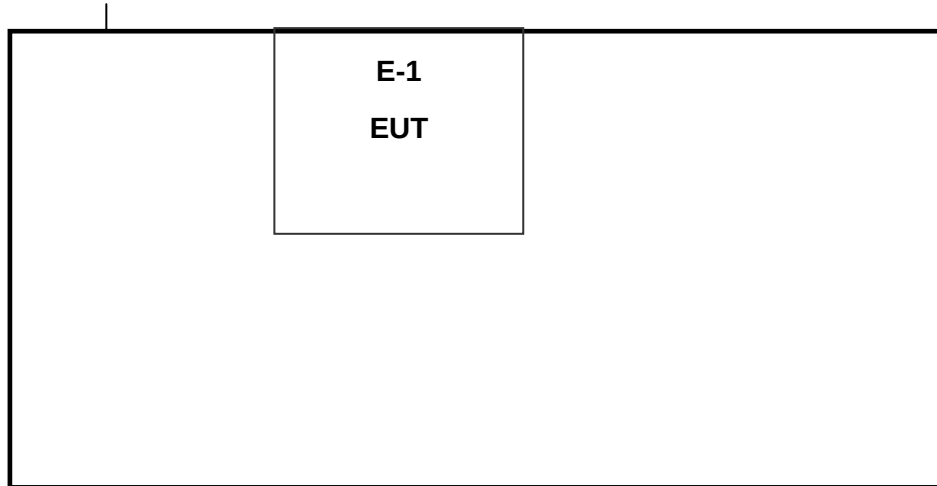
Test software Version	Test program: CSR BlueSuite		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	Default	Default	Default
Parameters(2Mbps)	Default	Default	Default
Parameters(3Mbps)	Default	Default	Default

1.4 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Block diagram of EUT configuration

Non-Conductive Table

80 cm above Ground Plane



1.5 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Active Speaker	Hermes	Boom Box Vinyl	N/A	N/A	EUT
E-2	AUX IN Cable	YUYANG	DC 3.5(golden)*1000 mm	N/A	N/A	AE
E-3	AC Cable	nanfang	NF-006+NF007	N/A	N/A	AE
E-4	Cell phone	HUAWEI	VKY-AL00	N/A	N/A	Provided by lab

Item	Shielded Type	Ferrite Core	Length	Note
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Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” or “with ferrite core”; “NO” means “unshielded” or “without ferrite core”

1.6
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Spectrum Analyzer	Hewlett Packard	8566B	3013A07296	April 29, 2019	1 Year
RF Preselector	Hewlett Packard	85685A	3010A01157	April 29, 2019	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650	2521A00584	April 29, 2019	1 Year
Preamplifier	Com Power	PA-102	1482	April 29, 2019	1 Year
RF Attenuator	Mini-Circuits	CAT-10	Asset #1000	December 8, 2018	1 Year
LISN	Com Power	LI-200	12012	September 10, 2019	1 Year
LISN	Com Power	LI-200	12214	September 10, 2019	1 Year
LISN	Com Power	LI-200	1767	September 10, 2019	1 Year
LISN	Com Power	LI-200	1768	September 10, 2019	1 Year
Biconical Antenna	Com Power	AB-100	01557	December 29, 2018	1 Year
Log Periodic Antenna	Com Power	AL-100	16037	December 22, 2018	1 Year
Horn Antenna	Com Power	AHA-118	711054	December 22, 2018	1 Year
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Dell, Inc.	DHS	DNSV641	N/A	N/A
Printer	Hewlett Packard	C8124A	CN39B2234T	N/A	N/A
Plotter	Hewlett Packard	7470A	2308A96499	N/A	N/A

2.7 EMI Test Equipment (Continued)

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
EMI Receiver	Rohde & Schwarz	ESU40	100127	June 12, 2019	1 Year
BiConiLog Antenna	ETS-Lindgren	3142D	00102183	August 14, 2019	1 Year
Horn Antenna	ETS-Lindgren	3117	00109294	May 6, 2019	1 Year
Preamplifier	Rohde & Schwarz	TS-PR18	100056	June 12, 2019	1 Year
Antenna Mast	ETS-Lindgren	2175	00095727	N/A	N/A
Turntable	ETS-Lindgren	2187-3.0	00118231	N/A	N/A
Computer	Acer	Aspire 8930	85100050123	N/A	N/A
Multi-Function Controller	ETS-Lindgren	2090	00102270	N/A	N/A
Loop Antenna	ARA	PLA-1030/B	1029	May 19, 2019	1 Year

3. 2EMC EMISSION TEST

2.1 3.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz) Limits

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5			66 - 56 *	56 - 46 *	LP0002
0.50 -5.0			56.00	46.00	LP0002
5.0 -30.0			60.00	50.00	LP0002

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

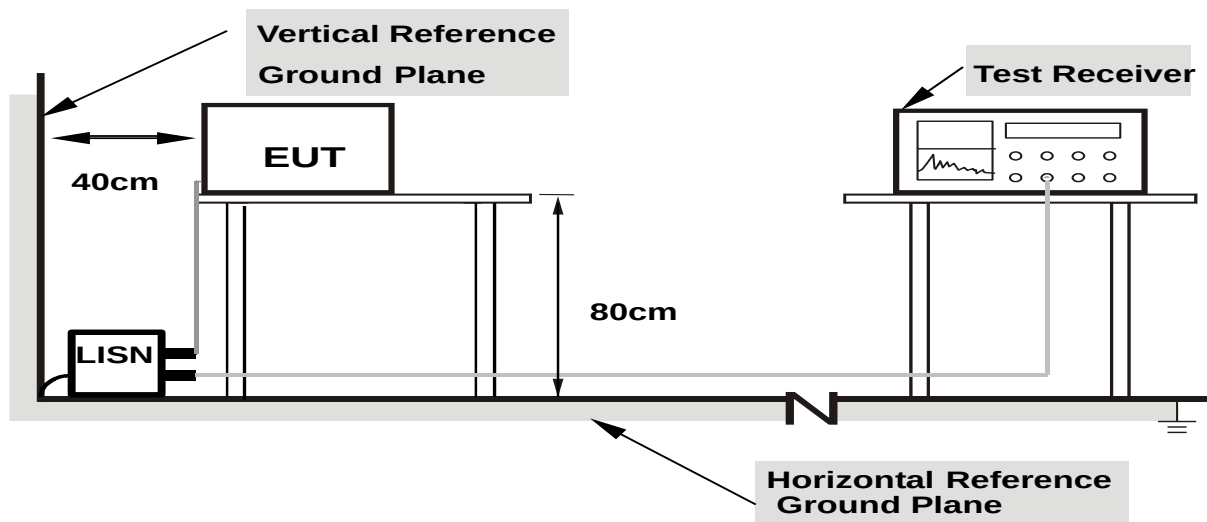
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

2.1.2 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

2.1.3 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

2.1.4 3.1.4 TEST SETUP

Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

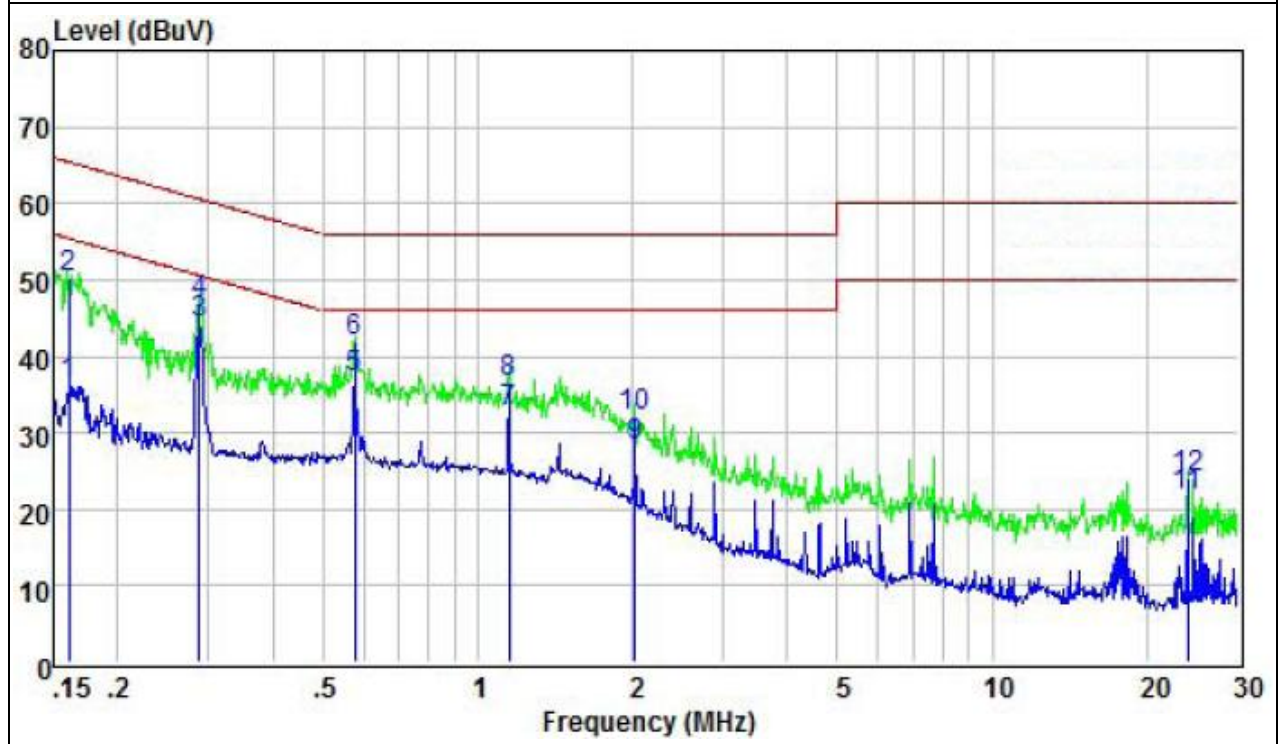
2.1.5 3.1.5 TEST RESULTS

EUT :	Active Speaker	Model Name. :	Boom Box Vinye
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2019-10-12
Test Mode :	Normal	Phase :	L
Test Voltage :	AC 110V/60Hz		

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		QP	Average	QP	Average	QP	Average	QP	Average
0.161	9.93	40.19	26.67	50.12	36.36	65.43	55.43	-15.31	-19.07
0.292	9.87	37.11	34.43	47.00	44.30	60.59	50.59	-13.59	-6.29
0.585	9.84	32.16	27.37	42.00	37.21	56.00	46.00	-14.00	-8.79
1.153	9.86	26.68	22.43	36.54	32.59	56.00	46.00	-19.46	-13.51
2.025	9.89	22.12	18.44	32.01	28.33	56.00	46.00	-23.99	-17.67
23.890	10.26	10.89	11.58	24.15	21.84	60.00	50.00	-35.85	-28.16

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss + Pulse limit.
3. '*' means the worst case

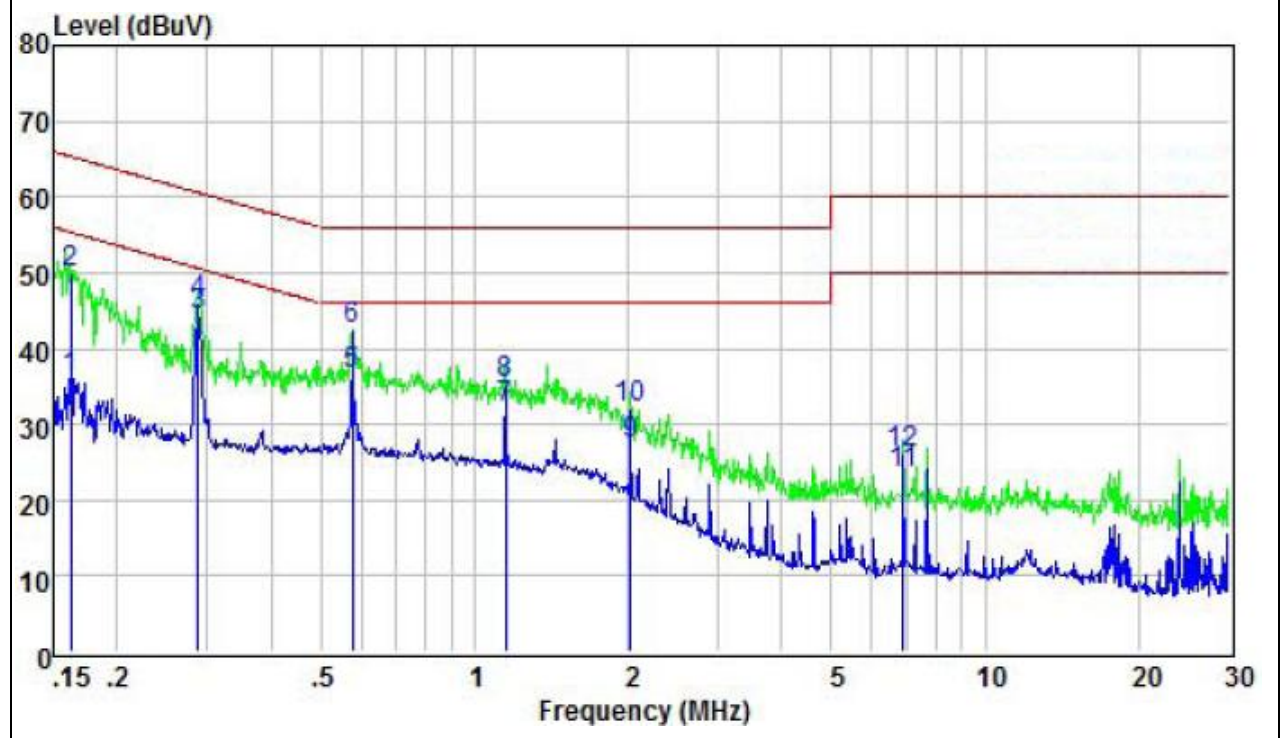


EUT :	Active Speaker	Model Name. :	Boom Box Vinyl
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2019-10-12
Test Mode :	Normal	Phase :	N
Test Voltage :	AC 110V/60Hz		

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		QP	Average	QP	Average	QP	Average	QP	Average
0.161	9.72	40.28	26.56	50.00	36.08	65.34	55.34	-15.34	-19.26
0.291	9.83	36.17	34.42	46.00	44.25	60.59	50.59	-14.59	-6.34
0.584	9.84	32.41	26.72	42.50	36.56	56.00	46.00	-13.50	-9.44
1.157	9.86	25.55	22.16	35.41	32.02	56.00	46.00	-20.59	-13.98
2.021	9.85	22.40	17.46	32.25	27.31	56.00	46.00	-23.75	-18.69
6.912	9.99	16.23	13.57	26.22	23.56	60.00	50.00	-33.78	-26.41

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss + Pulse limit.
3. '*' means the worst case



Test result: The unit does meet the NCC requirements.

2.2 3.2 RADIATED EMISSION MEASUREMENT

2.2.1 3.2.1 RADIATED EMISSION (Frequency Range 9kHz-1000MHz)

LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to LP002.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

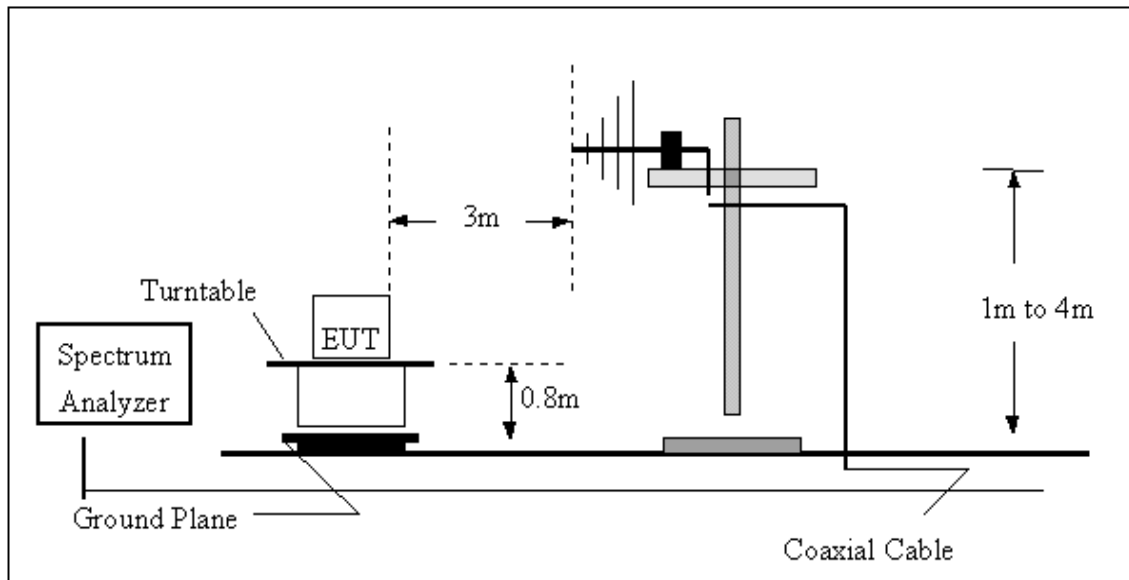
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

2.2.2 3.2.2 TEST PROCEDURE

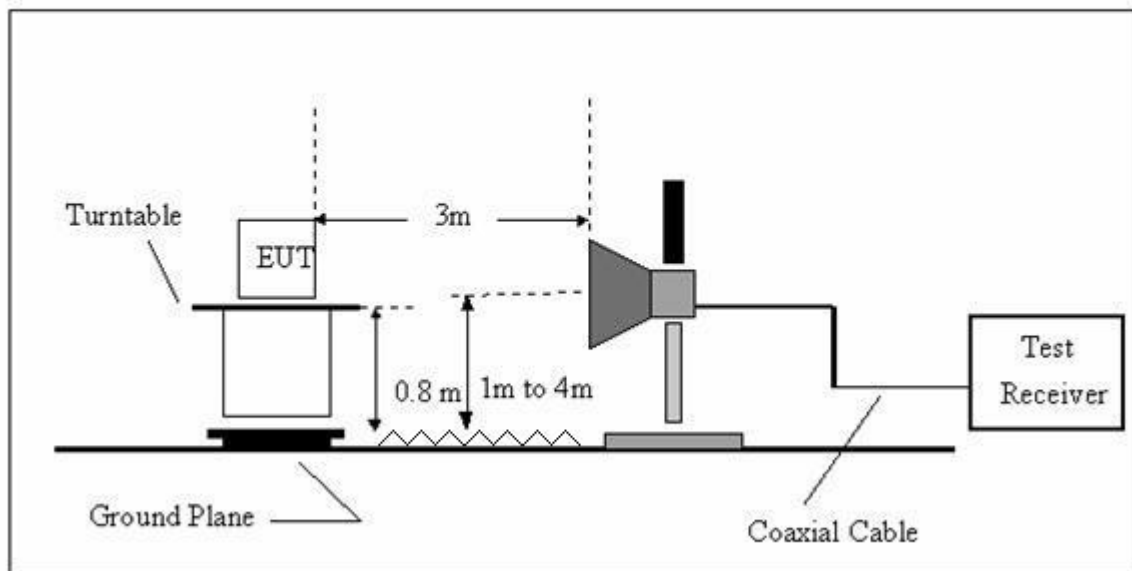
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- h. The field strength of spurious radiation emission was measured in the following position: EUT stand-up position (Y mode) and lie-down position (X, Z mode) the following data show only the worst case setup.
The worst case (X axis) was reported.

2.2.3 3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



2.2.4 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

2.2.5 3.2.5 TEST RESULTS (BLOW 30 MHZ)

There is no detected below 30MHz

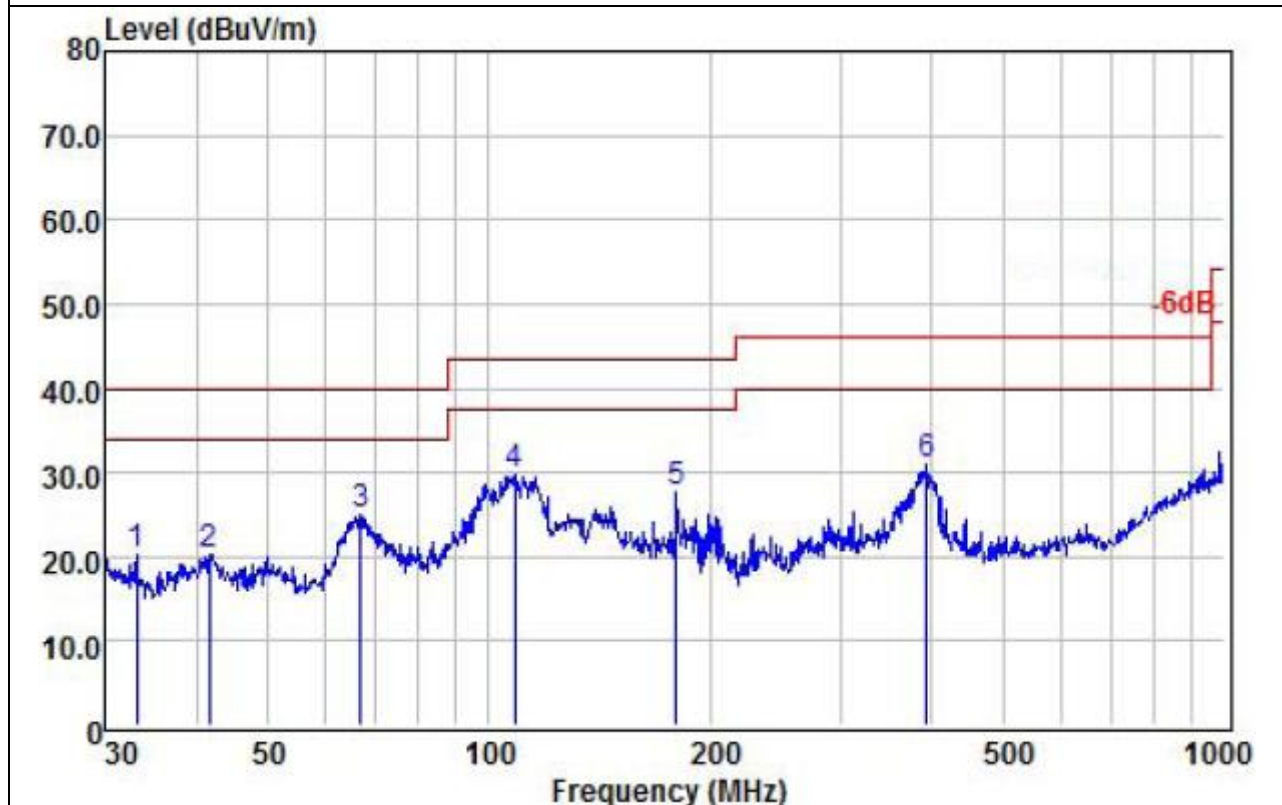
2.2.6 3.2.6 TEST RESULTS (BETWEEN30 – 1000 MHZ)

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
33.09	6.40	-13.80	20.20	40.00	-19.80	Quasi-Peak
41.57	6.67	-13.54	20.21	40.00	-19.79	Quasi-Peak
66.97	13.15	-11.97	25.12	40.00	-14.88	Quasi-Peak
108.27	17.73	-11.87	29.60	43.50	-13.90	Quasi-Peak
180.02	14.66	-12.94	27.60	43.50	-15.90	Quasi-Peak
393.47	15.79	-15.10	30.89	46.00	-15.11	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

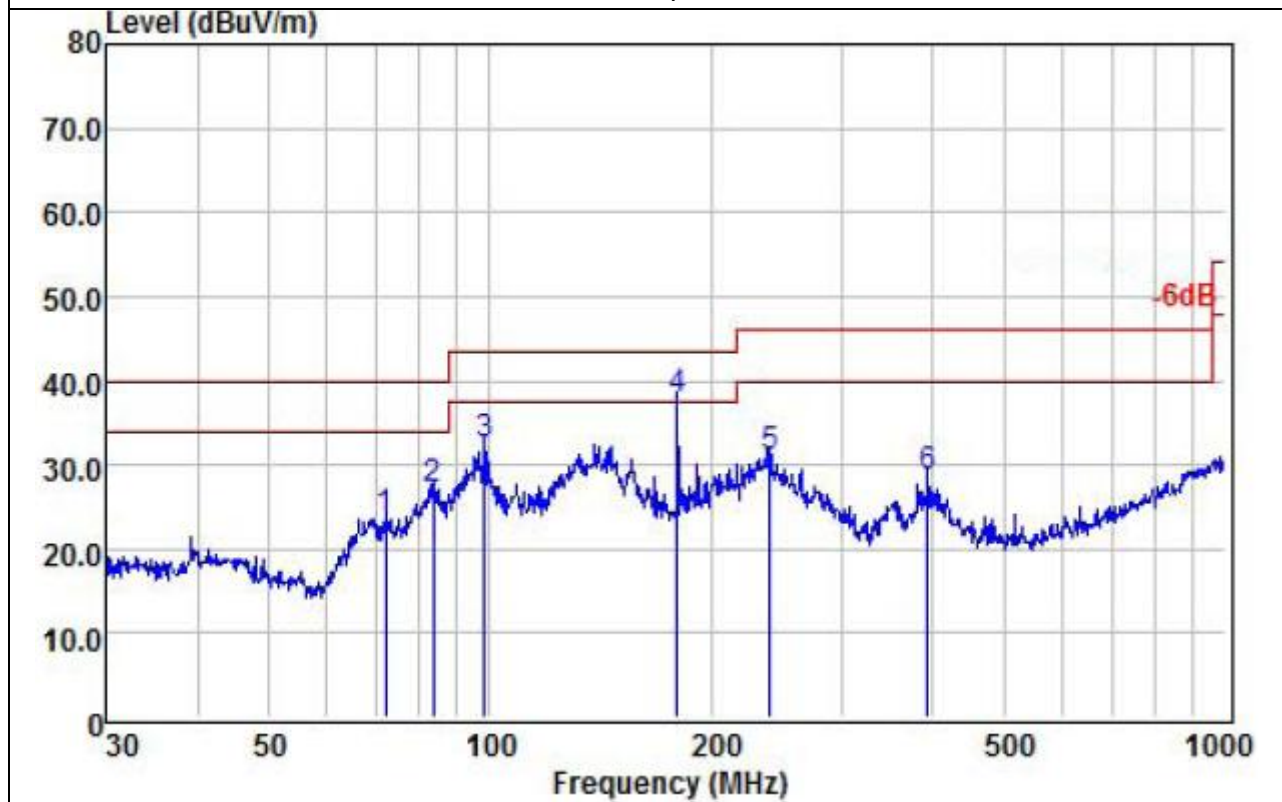


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
72.08	10.35	-13.00	23.35	40.00	-16.65	Quasi-Peak
83.52	13.98	-13.00	26.98	40.00	-13.02	Quasi-Peak
98.14	20.95	-11.57	32.52	43.50	-10.98	Quasi-Peak
180.02	24.83	-12.94	37.77	43.50	-5.73	Quasi-Peak
239.99	18.05	-12.80	30.85	46.00	-15.15	Quasi-Peak
393.47	13.41	-15.51	28.51	46.00	-17.49	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



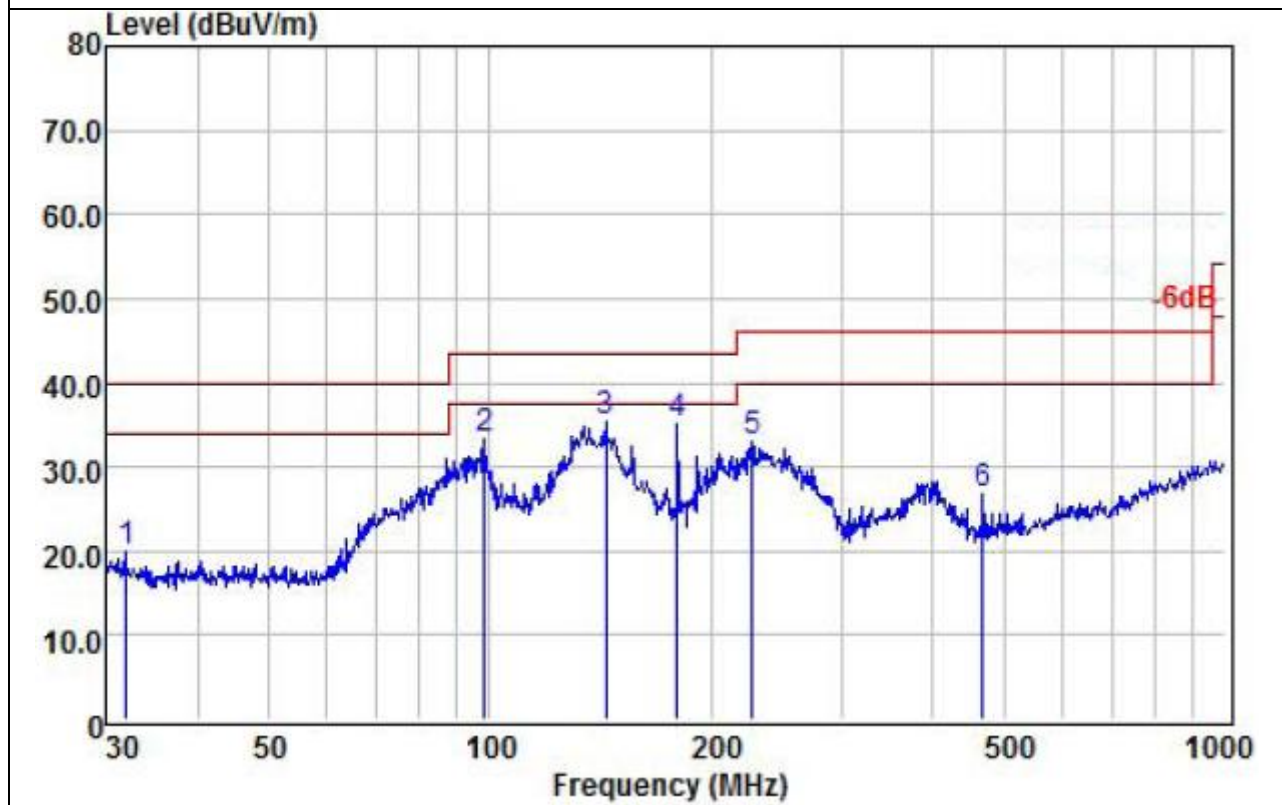
Test result: The unit does meet the NCC requirements.

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
31.95	5.80	-14.27	20.07	40.00	-19.93	Quasi-Peak
98.14	21.64	-11.57	33.21	40.00	-10.29	Quasi-Peak
143.83	19.78	-15.54	35.32	43.50	-8.18	Quasi-Peak
180.02	22.07	-12.94	35.01	43.50	-8.49	Quasi-Peak
227.69	20.62	-12.26	32.88	46.00	-13.12	Quasi-Peak
468.88	9.99	-16.83	26.82	46.00	-19.18	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

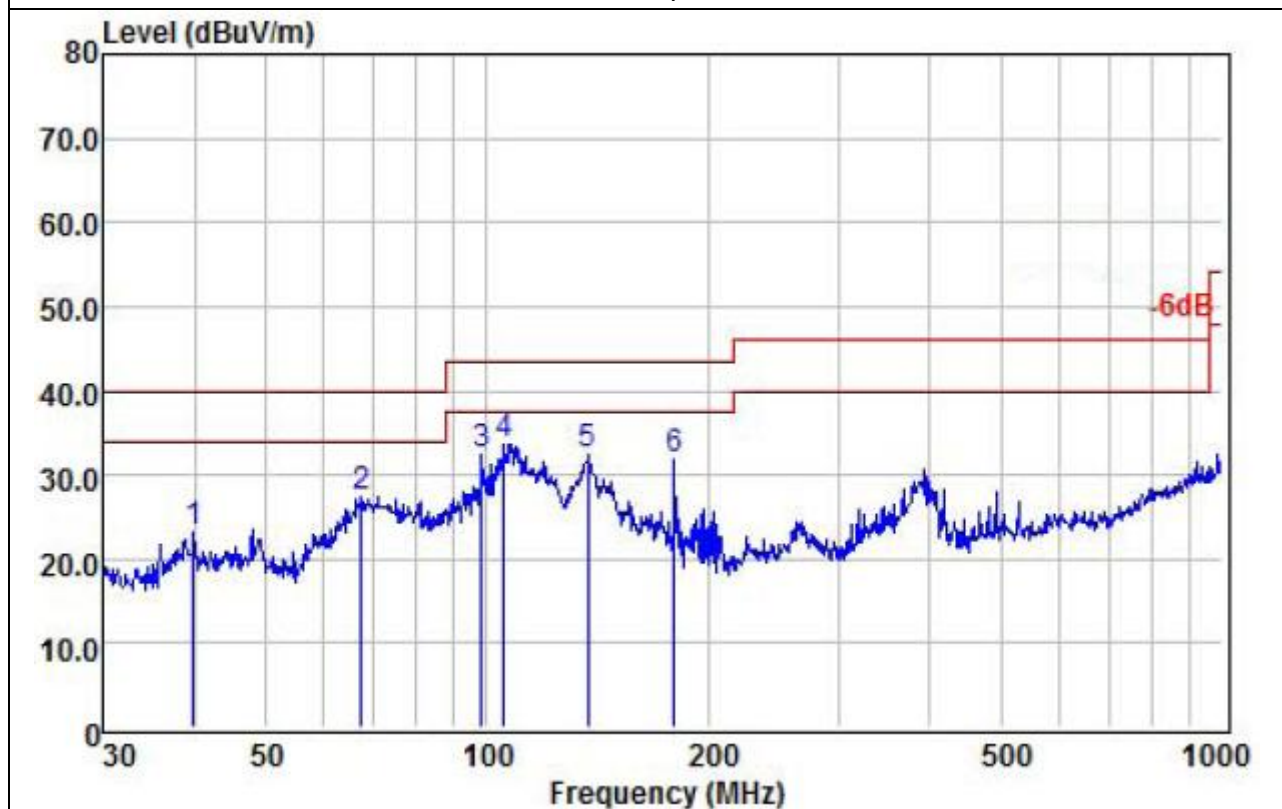


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
39.85	9.52	-13.61	23.13	40.00	-16.87	Quasi-Peak
67.41	15.29	-11.96	27.25	40.00	-12.75	Quasi-Peak
98.14	20.94	-11.40	32.34	43.50	-11.16	Quasi-Peak
105.27	21.94	-11.70	33.64	43.50	-9.86	Quasi-Peak
137.42	17.29	-15.10	32.39	43.50	-11.11	Quasi-Peak
180.02	18.82	-12.94	31.76	43.50	-11.74	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



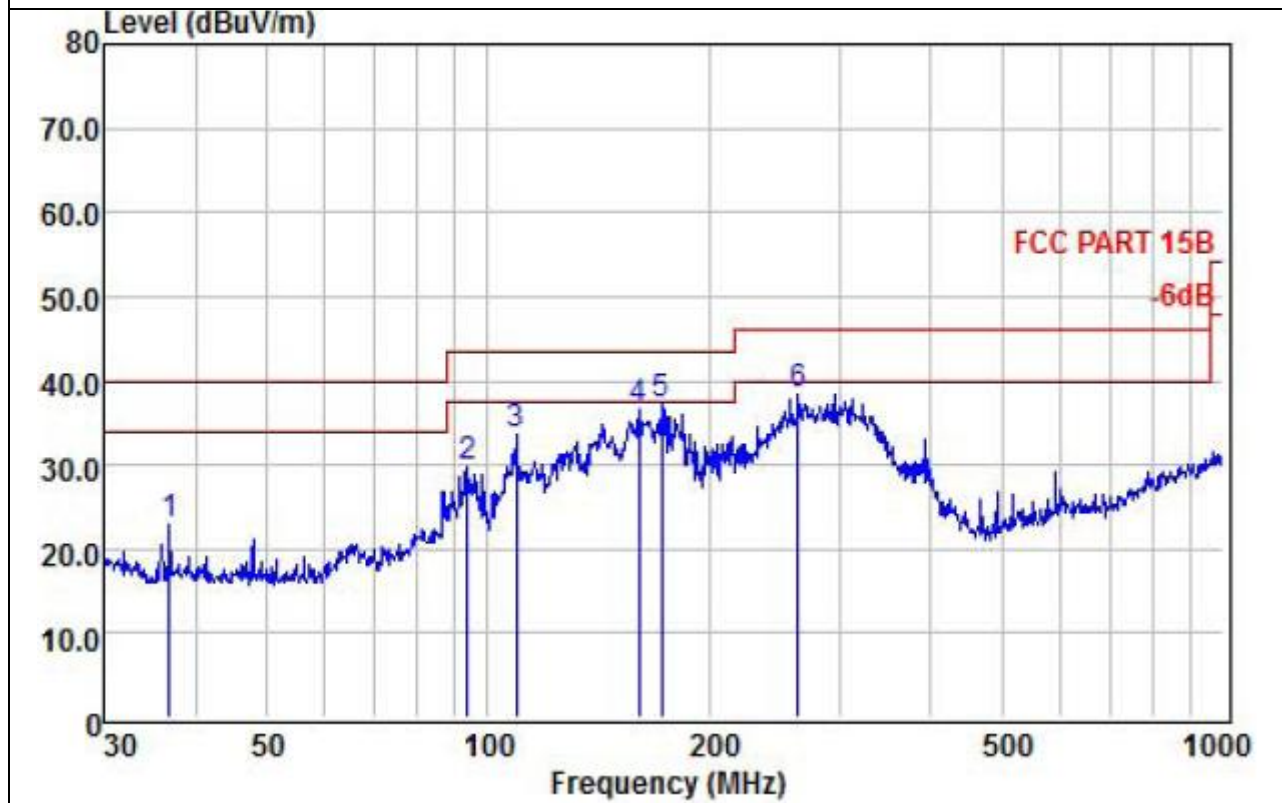
Test result: The unit does meet the NCC requirements.

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-11-26
Test Mode :	AUX IN	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
36.90	9.56	-13.72	22.83	40.00	-17.17	
93.77	17.57	-12.08	29.65	43.50	-13.85	Quasi-Peak
109.41	21.52	-11.94	33.46	43.50	-10.04	Quasi-Peak
160.35	20.63	-15.84	36.47	43.50	-7.03	Quasi-Peak
171.99	23.00	-14.09	37.09	43.50	-6.41	Quasi-Peak
263.82	26.09	-12.41	38.50	46.00	-7.50	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

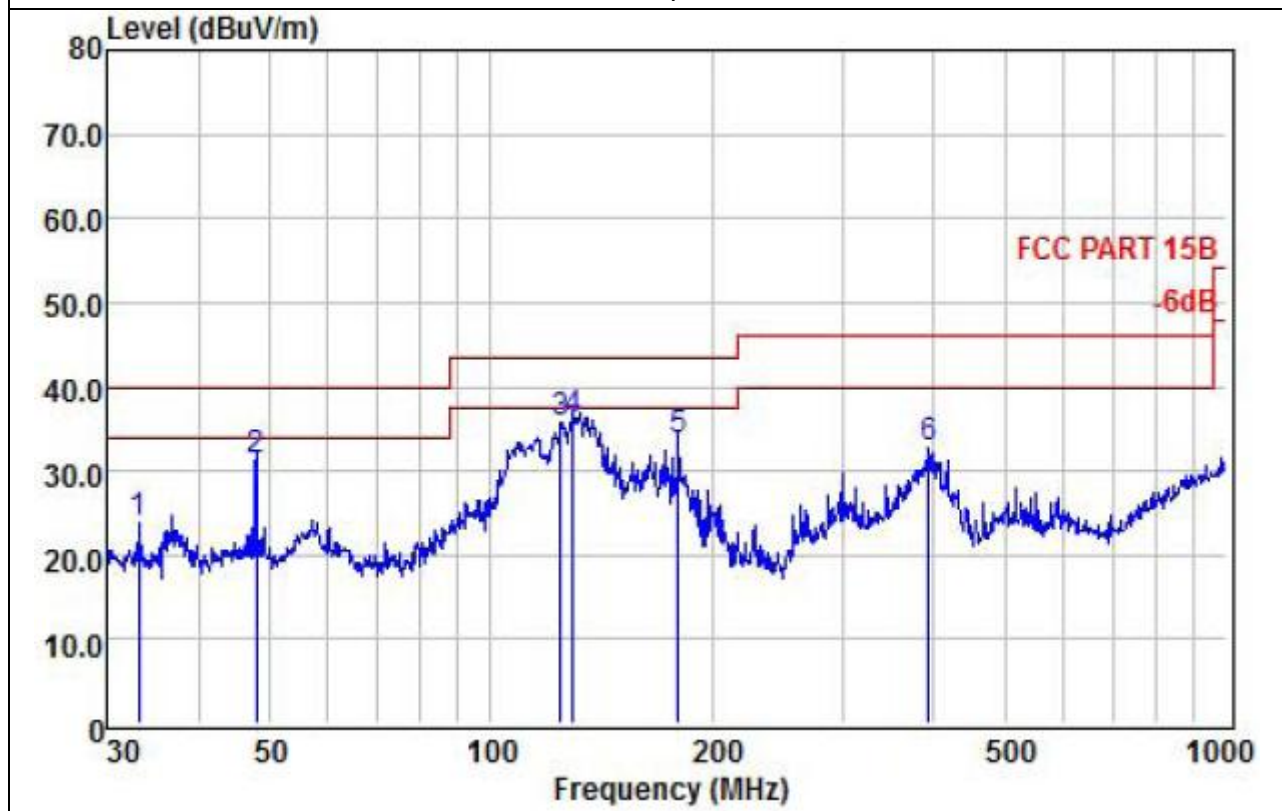


EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-11-26
Test Mode :	AUX IN	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
33.21	10.03	-13.75	23.78	40.00	-16.22	Quasi-Peak
47.99	18.05	-13.21	31.26	40.00	-8.74	Quasi-Peak
124.57	22.52	-13.24	35.76	43.50	-7.74	Quasi-Peak
129.47	22.11	-13.97	36.08	43.50	-7.42	Quasi-Peak
180.02	20.63	-12.94	33.57	43.50	-9.93	Quasi-Peak
393.47	17.71	-15.10	32.84	46.00	-13.16	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Test result: The unit does meet the NCC requirements.

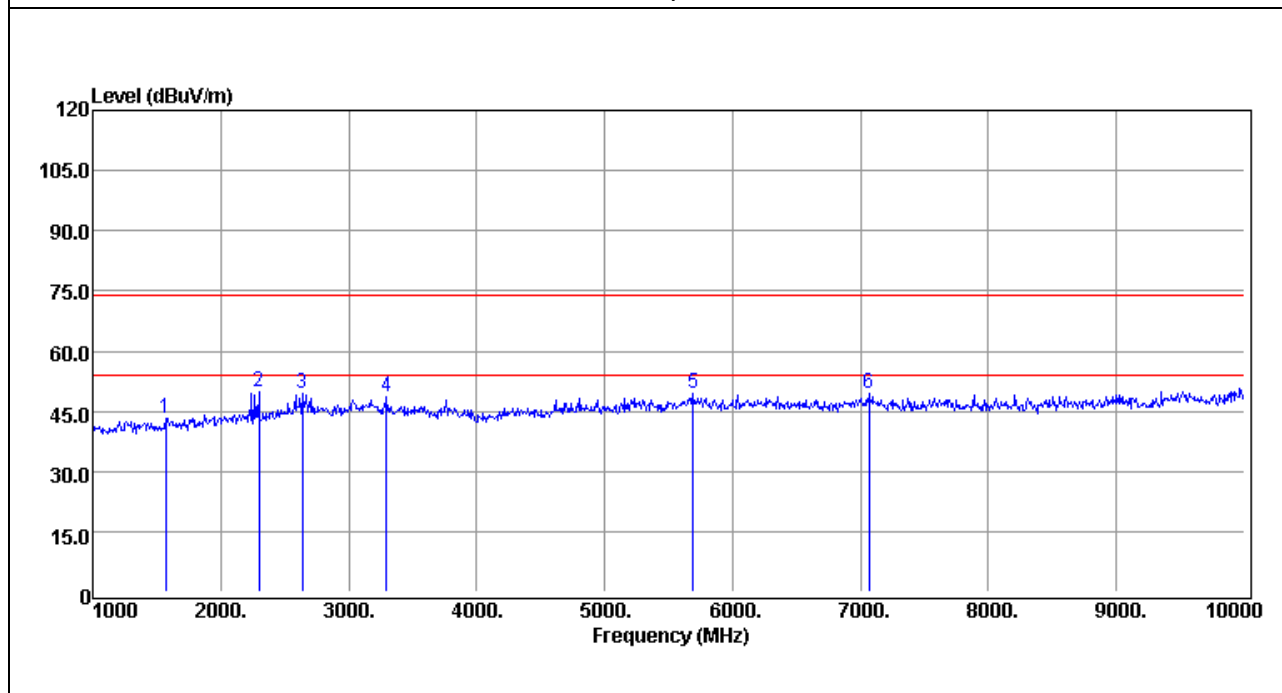
2.2.7 3.2.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2402MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1567.00	41.14	1.92	43.06	74.00	30.94	peak
2296.00	44.36	5.52	49.88	74.00	24.12	peak
2638.00	43.22	6.33	49.55	74.00	24.45	peak
3295.00	41.27	7.5	48.77	74.00	25.23	peak
5689.00	43.86	5.45	49.31	74.00	24.69	peak
7066.00	46.64	2.72	49.36	74.00	24.64	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

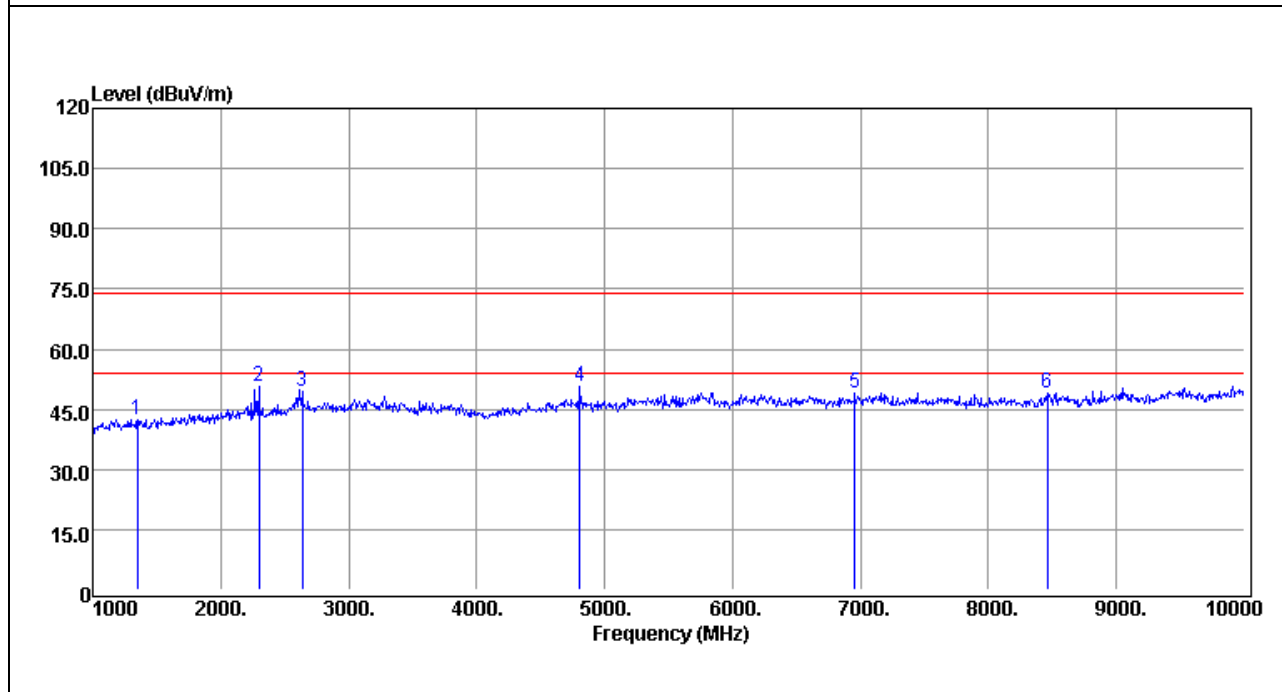


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2402MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1351.00	41.55	0.99	42.54	74.00	31.46	peak
2296.00	45.09	5.52	50.61	74.00	23.39	peak
2638.00	43.15	6.33	49.48	74.00	24.52	peak
4807.00	41.17	9.4	50.57	74.00	23.43	peak
6958.00	46.43	2.52	48.95	74.00	25.05	peak
8461.00	46.92	2	48.92	74.00	25.08	peak

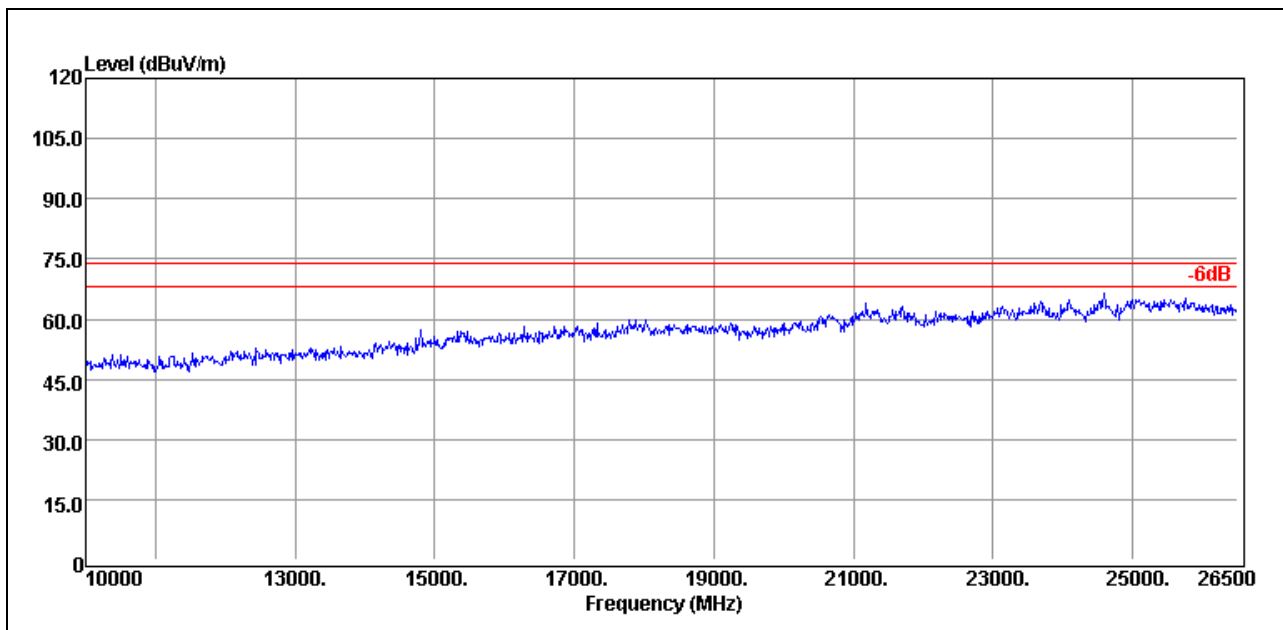
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



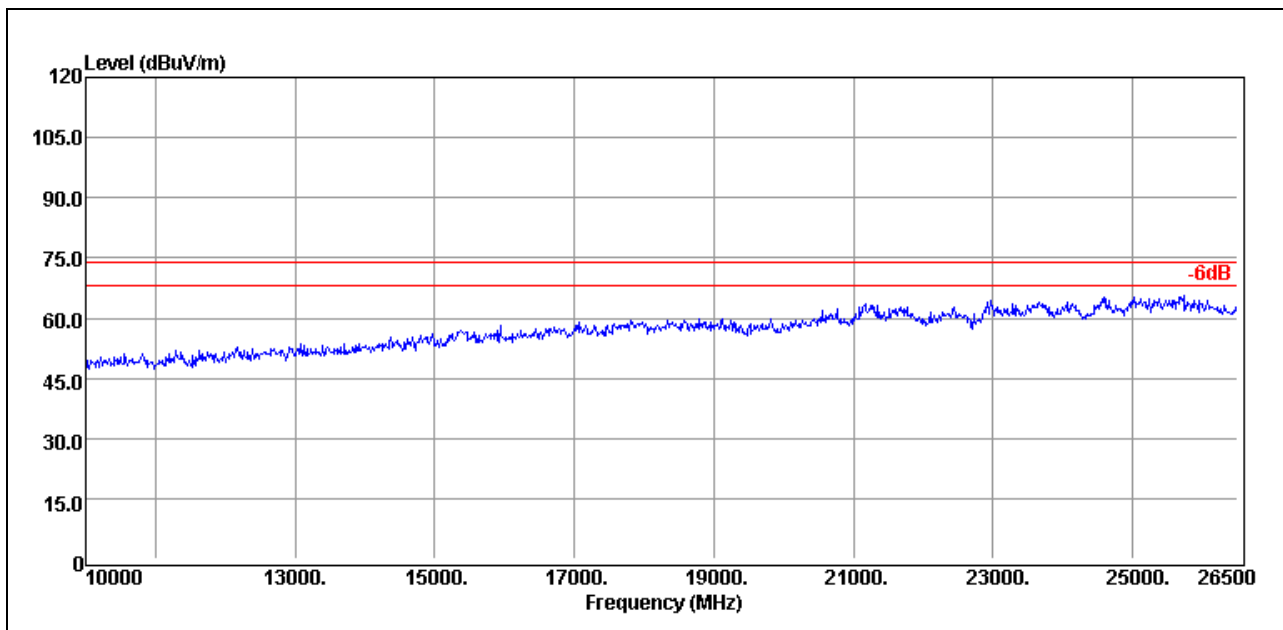
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

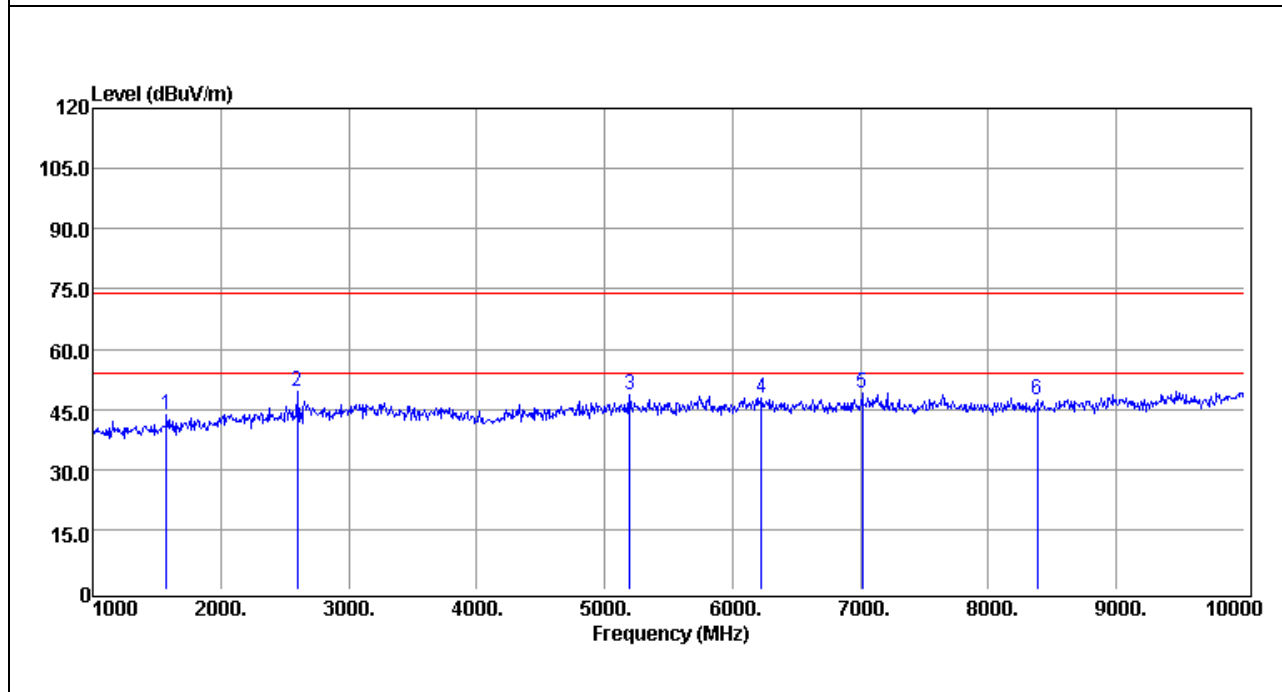


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2441MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1576.00	41.42	2.05	43.47	74.00	30.53	peak
2602.00	43.11	6.19	49.3	74.00	24.70	peak
5194.00	43.15	5.34	48.49	74.00	25.51	peak
6229.00	44.21	3.7	47.91	74.00	26.09	peak
7012.00	46.19	2.68	48.87	74.00	25.13	peak
8380.00	45.57	1.89	47.46	74.00	26.54	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

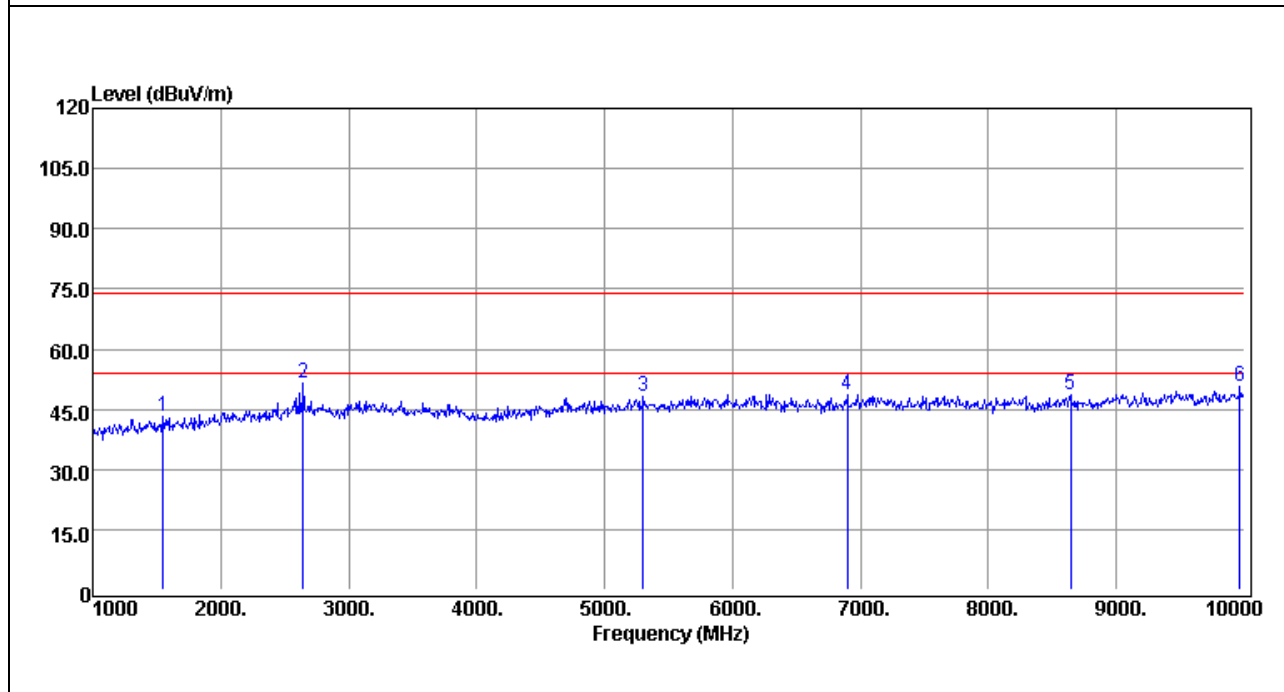


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2441MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1549.00	41.28	1.82	43.1	74.00	30.90	peak
2647.00	45.27	6.37	51.64	74.00	22.36	peak
5302.00	42.46	5.54	48	74.00	26.00	peak
6895.00	45.42	3.34	48.76	74.00	25.24	peak
8641.00	46.26	2.27	48.53	74.00	25.47	peak
9964.00	46.07	4.39	50.46	74.00	23.54	peak

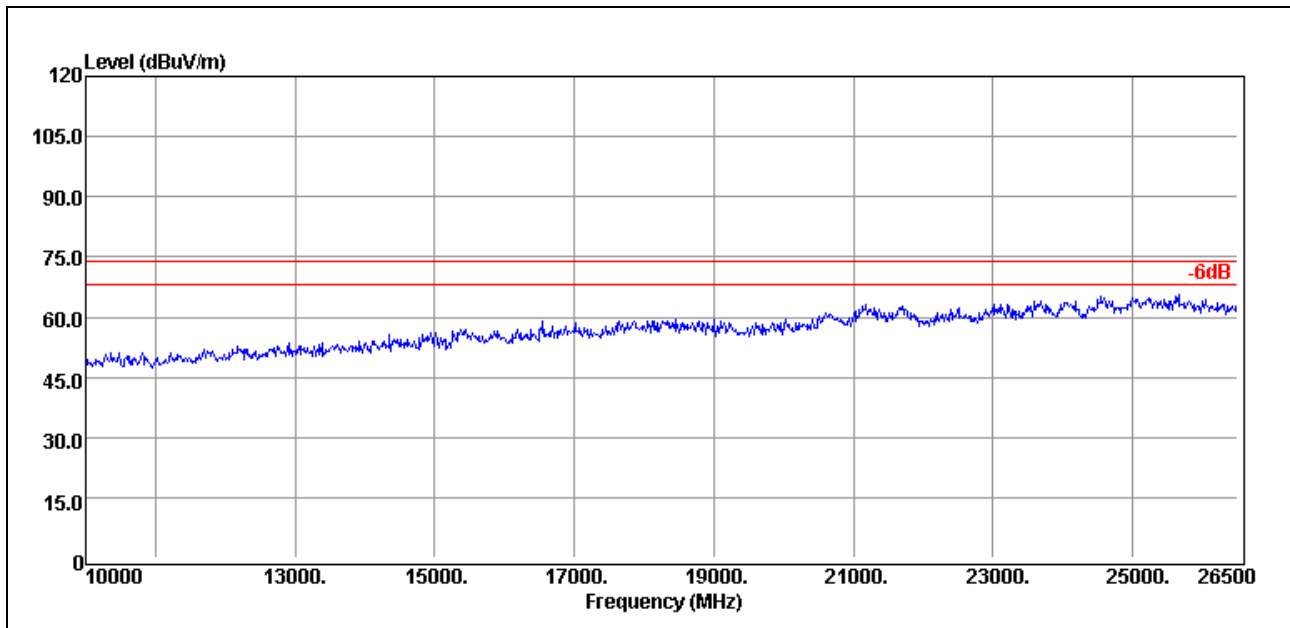
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



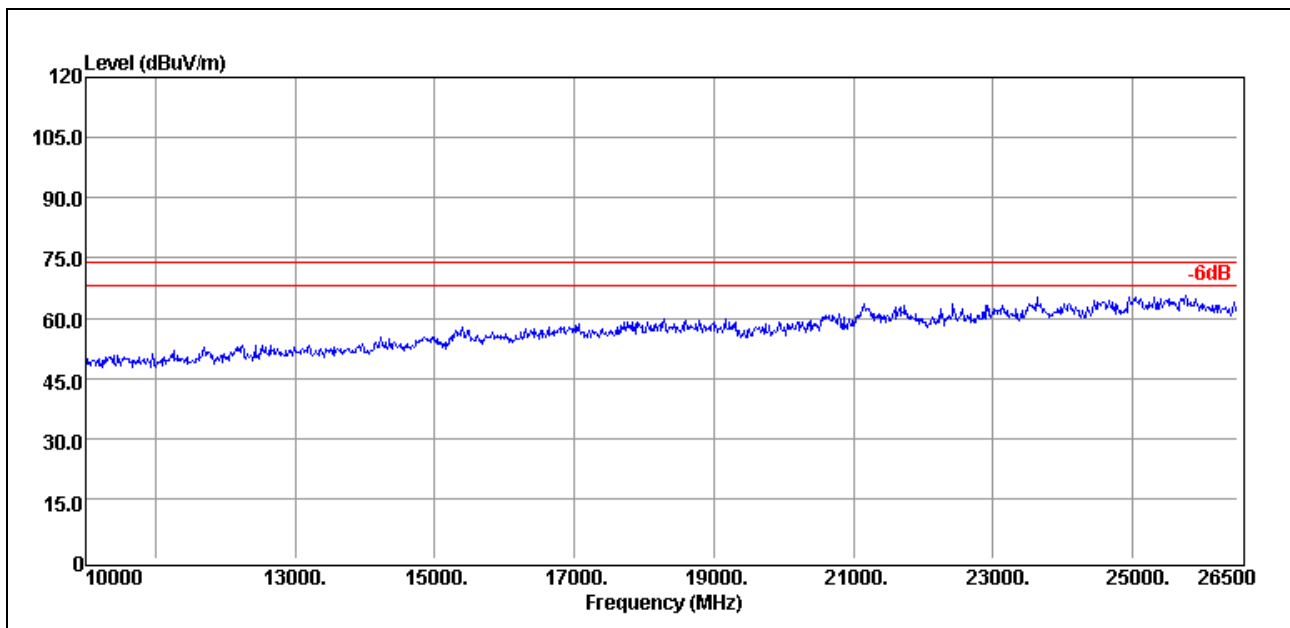
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

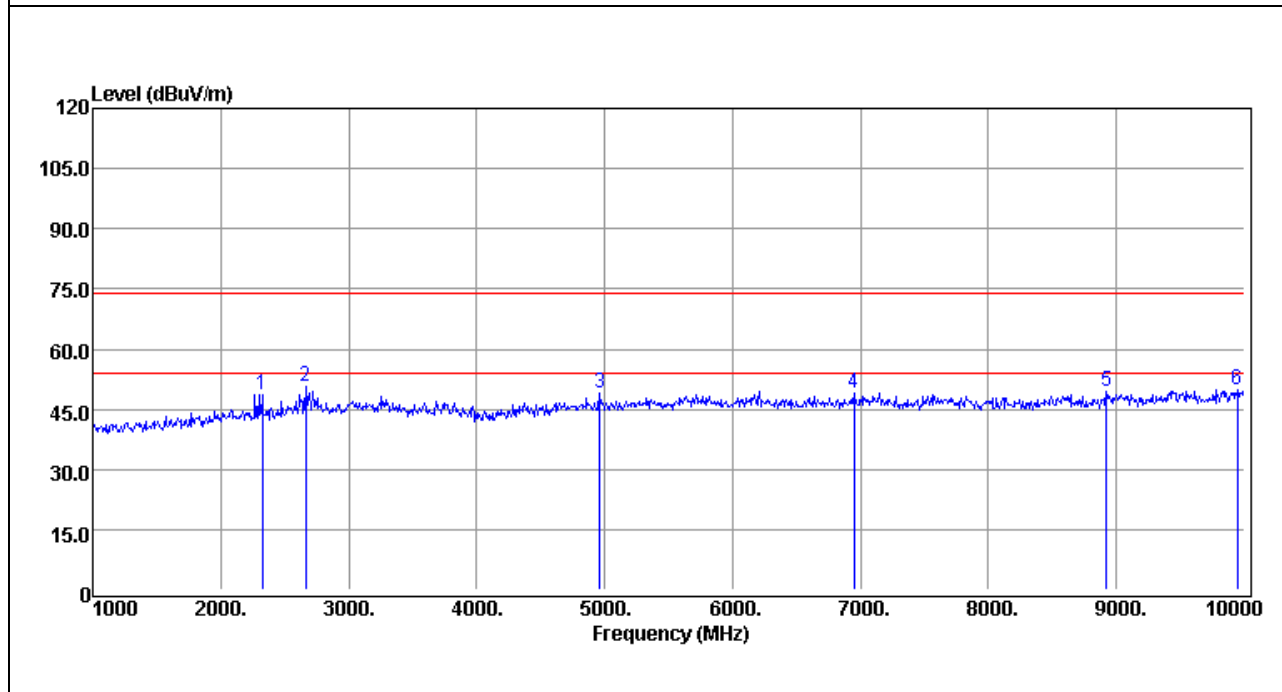


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2480MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2323.00	43.11	5.57	48.68	74.00	25.32	peak
2665.00	44.31	6.43	50.74	74.00	23.26	peak
4960.00	41.32	7.81	49.13	74.00	24.87	peak
6949.00	46.54	2.52	49.06	74.00	24.94	peak
8920.00	46.57	2.77	49.34	74.00	24.66	peak
9946.00	45.36	4.39	49.75	74.00	24.25	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

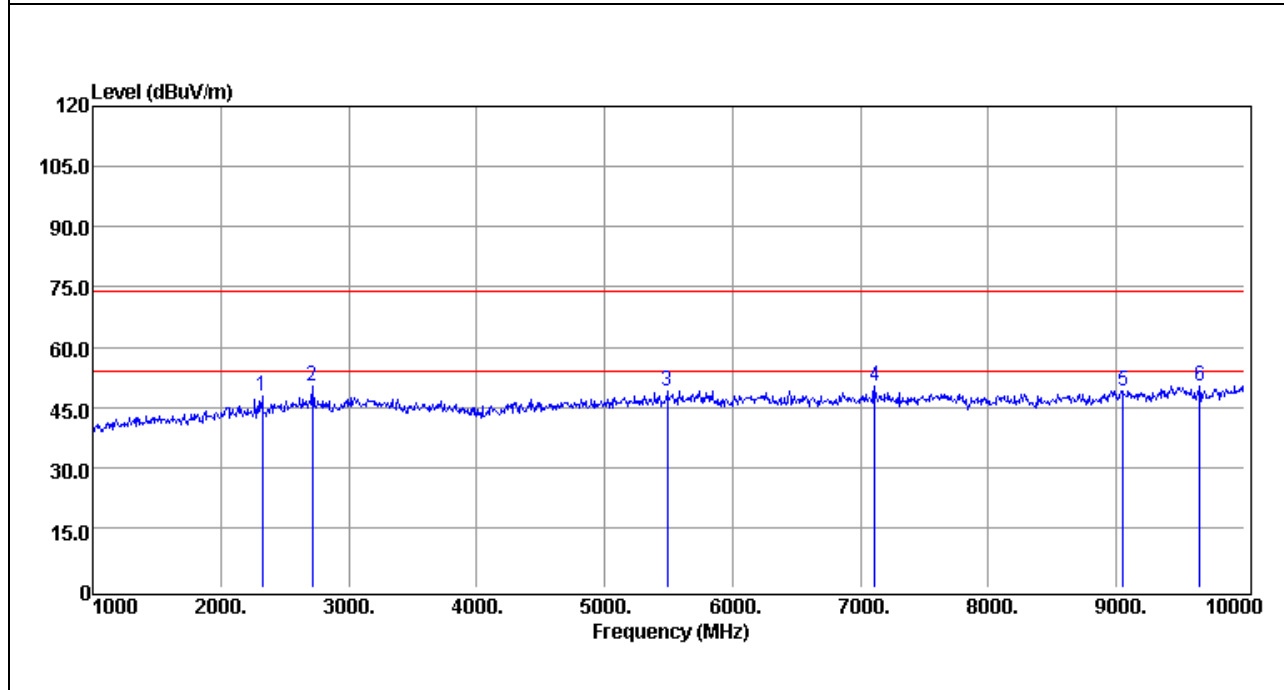


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2480MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2323.00	42.05	5.57	47.62	74.00	26.38	peak
2719.00	43.86	6.6	50.46	74.00	23.54	peak
5491.00	44.27	4.89	49.16	74.00	24.84	peak
7111.00	47.33	2.76	50.09	74.00	23.91	peak
9055.00	46.16	2.99	49.15	74.00	24.85	peak
9649.00	46.43	3.97	50.4	74.00	23.60	peak

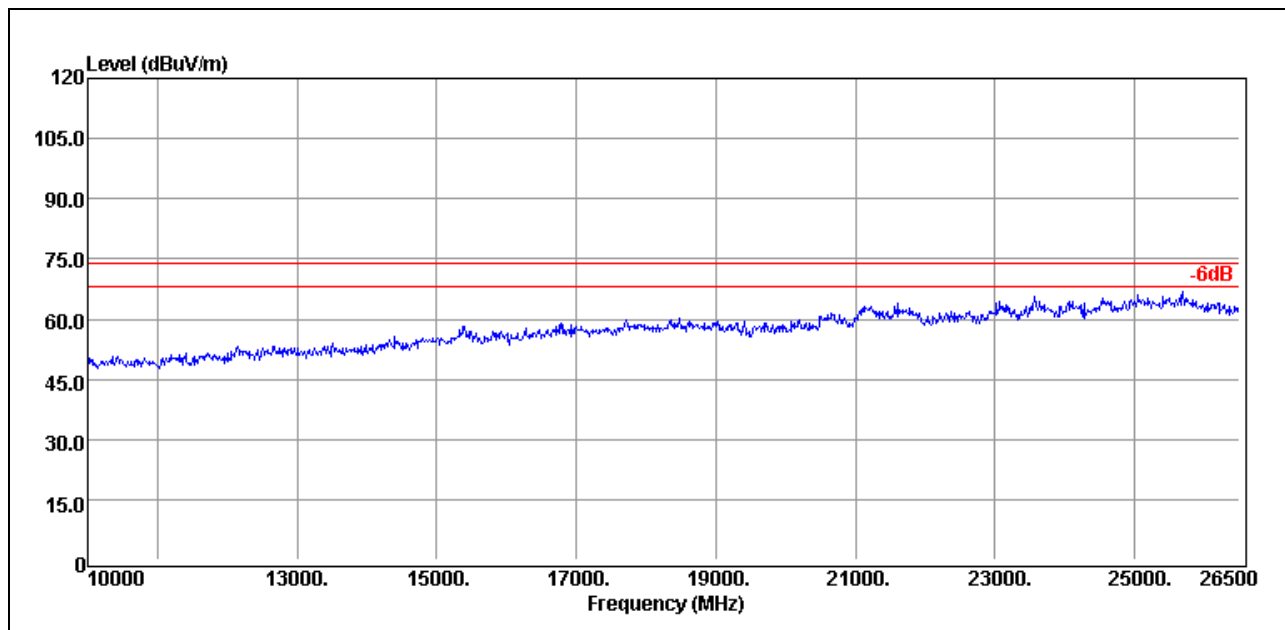
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



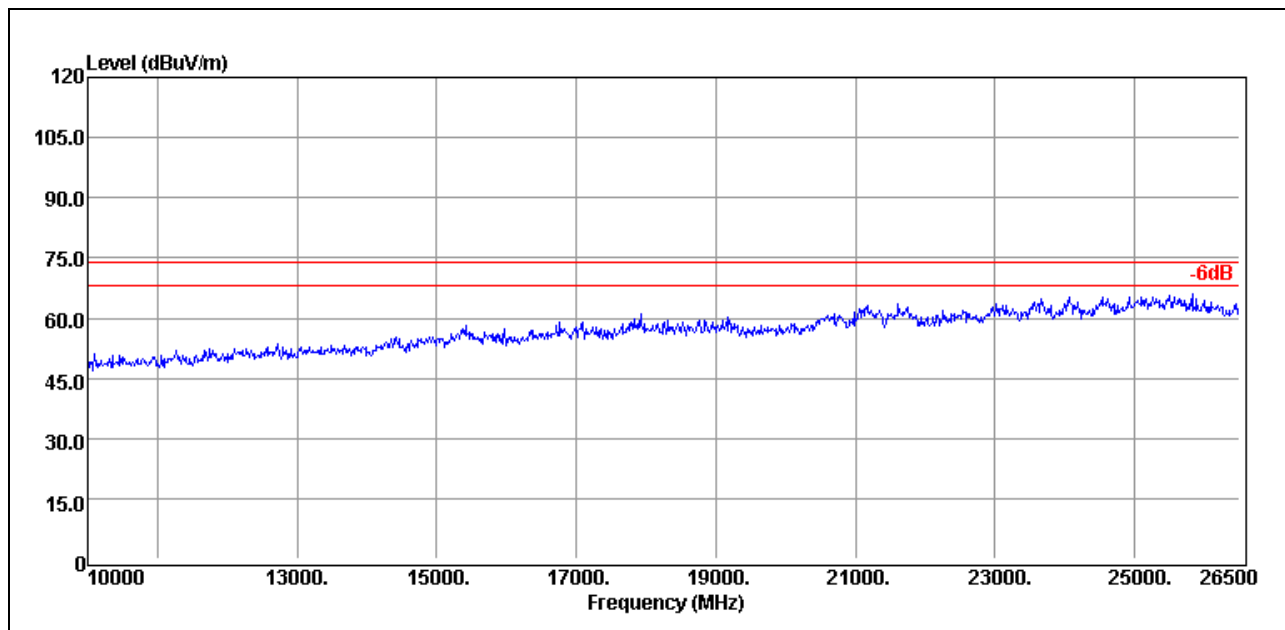
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

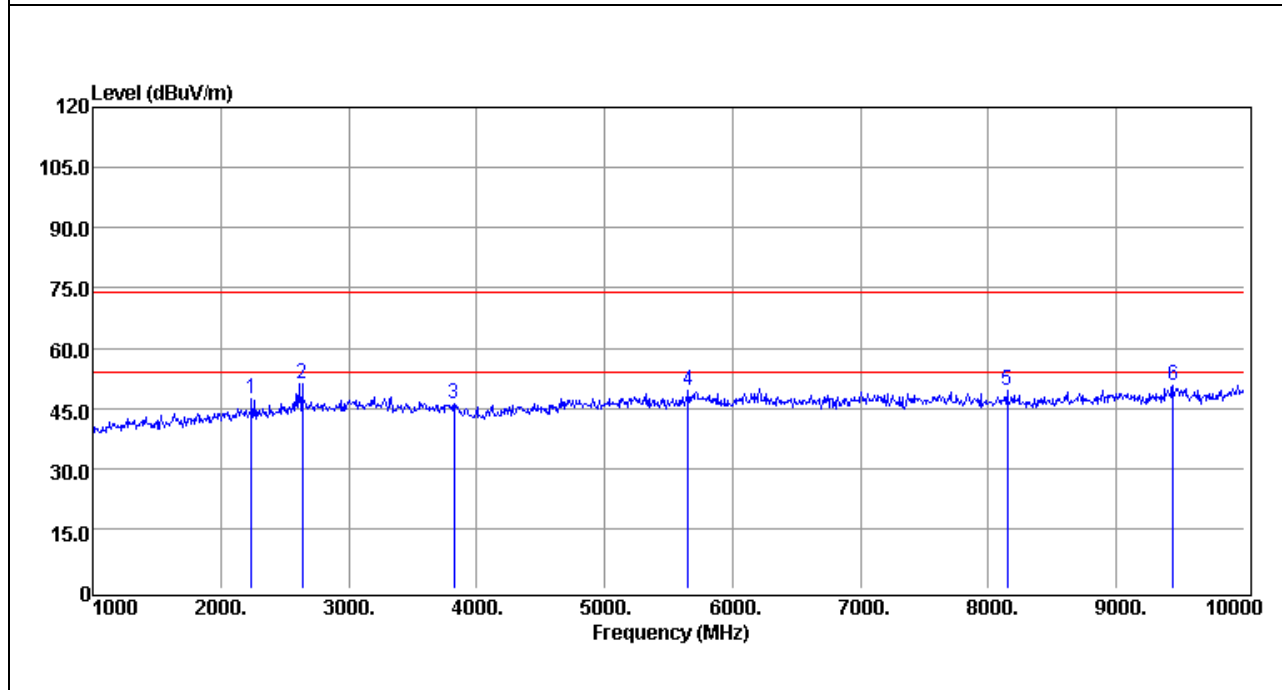


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2402MHz (3Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2242.00	42.06	5.44	47.5	74.00	26.50	peak
2638.00	44.74	6.33	51.07	74.00	22.93	peak
3826.00	38.37	7.71	46.08	74.00	27.92	peak
5653.00	44.22	5.35	49.57	74.00	24.43	peak
8146.00	47.71	1.57	49.28	74.00	24.72	peak
9442.00	46.93	3.69	50.62	74.00	23.38	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

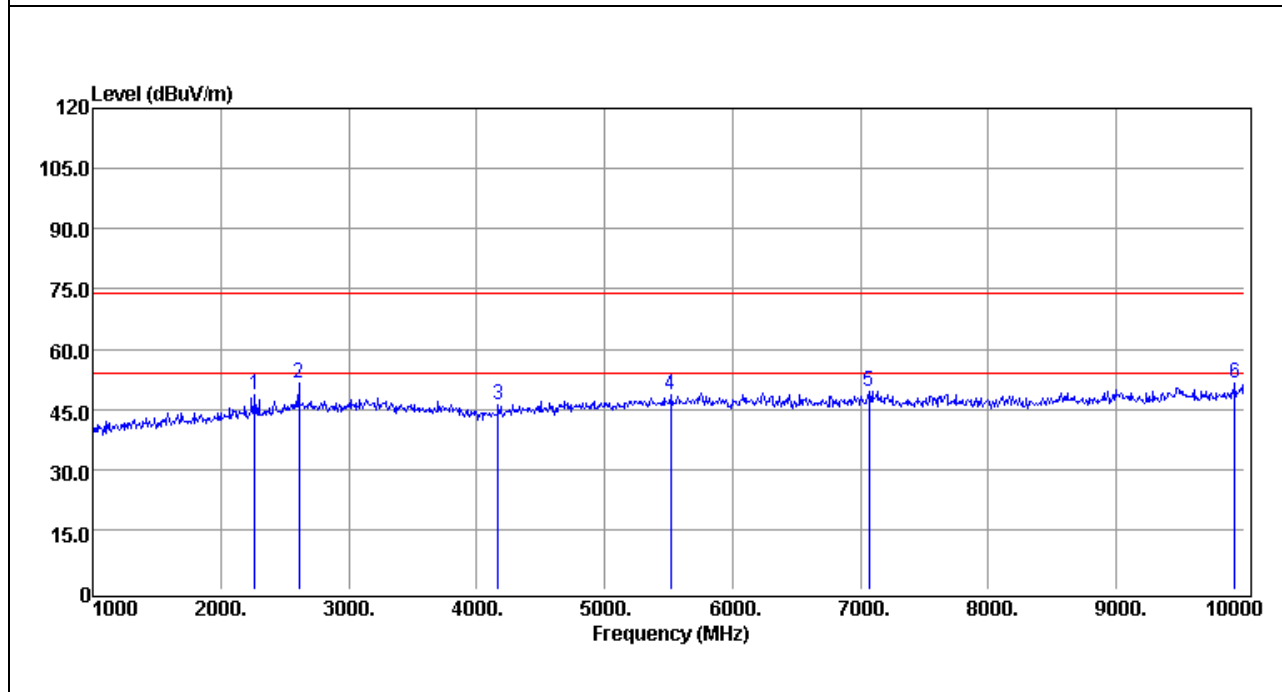


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2402MHz (3Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2269.00	43.23	5.49	48.72	74.00	25.28	peak
2611.00	45.17	6.27	51.44	74.00	22.56	peak
4168.00	38.06	7.95	46.01	74.00	27.99	peak
5518.00	43.62	4.97	48.59	74.00	25.41	peak
7066.00	46.65	2.72	49.37	74.00	24.63	peak
9928.00	46.93	4.36	51.29	74.00	22.71	peak

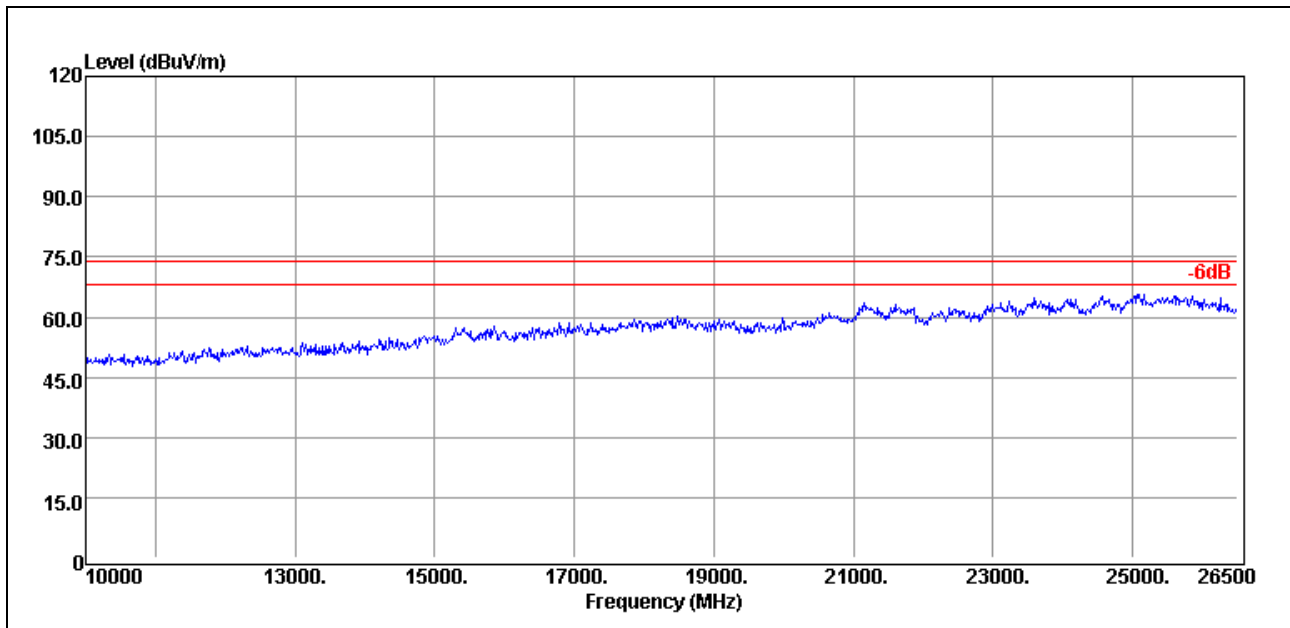
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



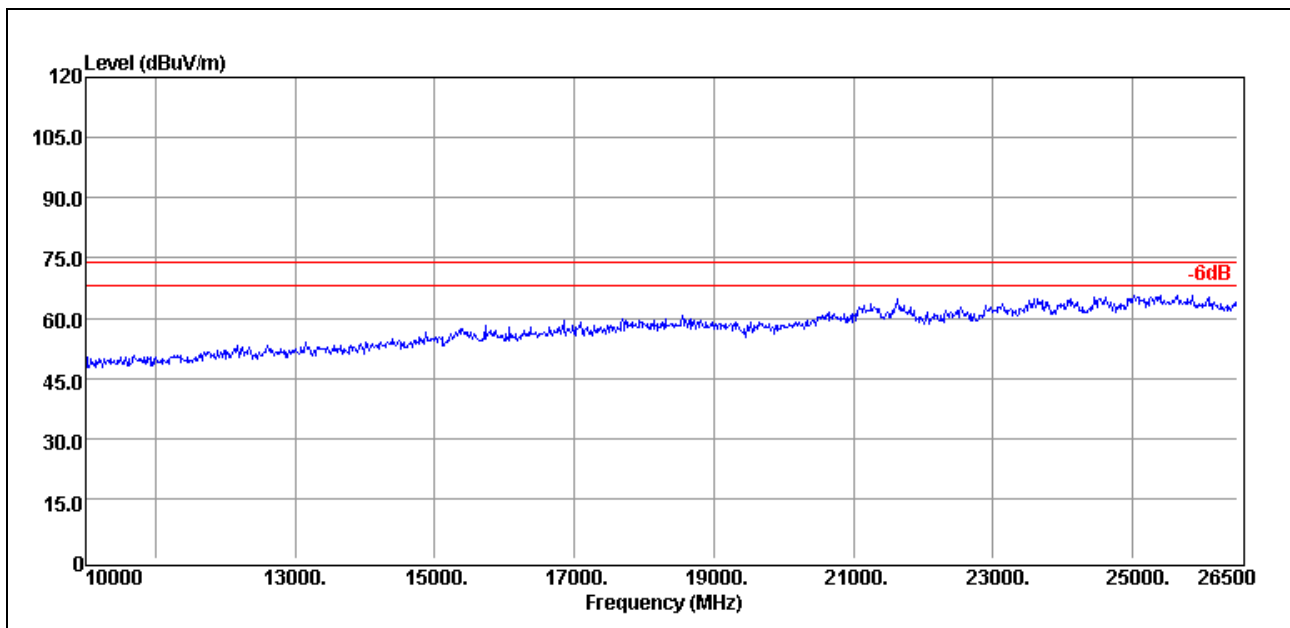
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

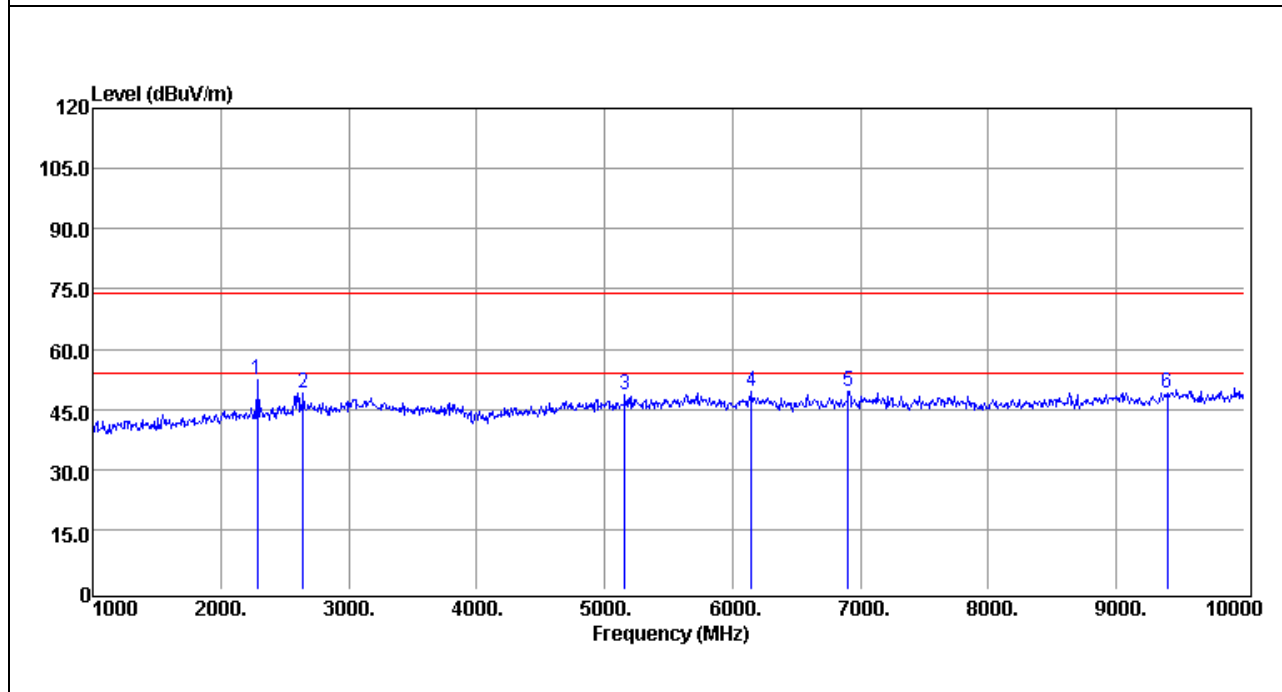


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2441MHz (3Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2287.00	46.94	5.49	52.43	74.00	21.57	peak
2647.00	42.55	6.37	48.92	74.00	25.08	peak
5158.00	43.43	5.27	48.7	74.00	25.30	peak
6148.00	45.74	3.56	49.3	74.00	24.70	peak
6904.00	46.17	3.36	49.53	74.00	24.47	peak
9397.00	45.34	3.6	48.94	74.00	25.06	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

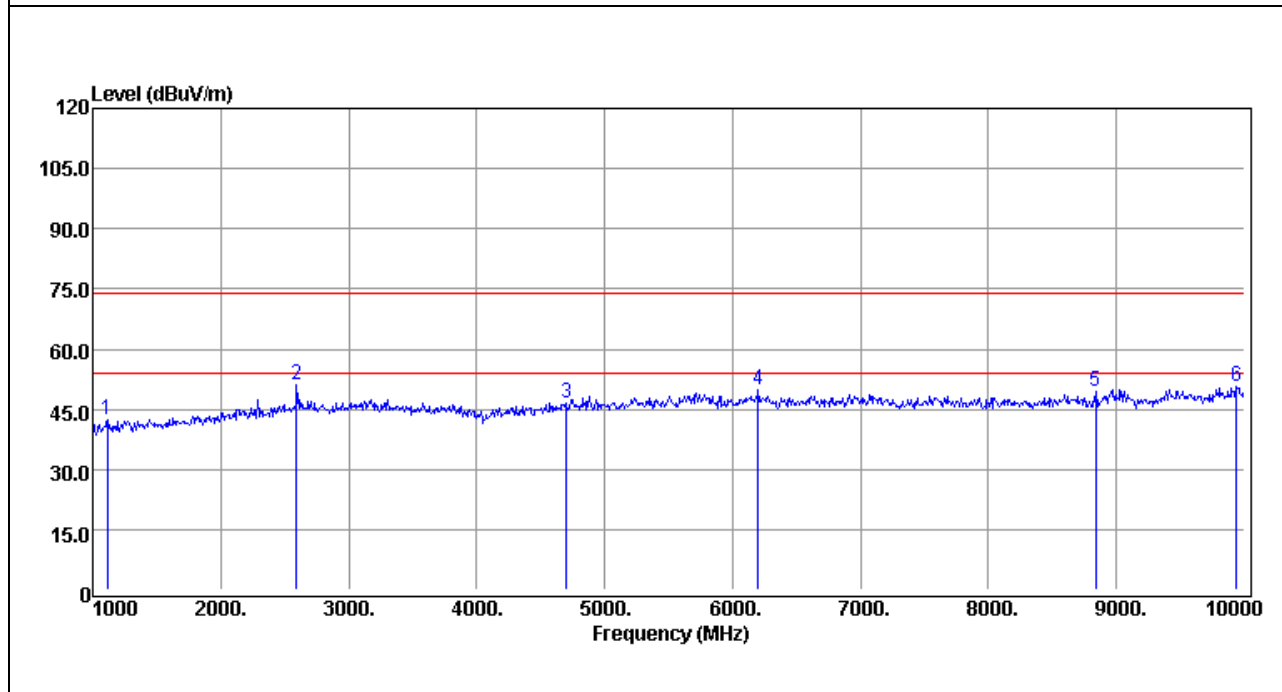


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2441MHz (3Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1117.00	42.01	0.19	42.2	74.00	31.80	peak
2593.00	44.96	6.19	51.15	74.00	22.85	peak
4699.00	37.54	9.12	46.66	74.00	27.34	peak
6202.00	46.15	3.65	49.8	74.00	24.20	peak
8839.00	46.87	2.62	49.49	74.00	24.51	peak
9937.00	46.26	4.37	50.63	74.00	23.37	peak

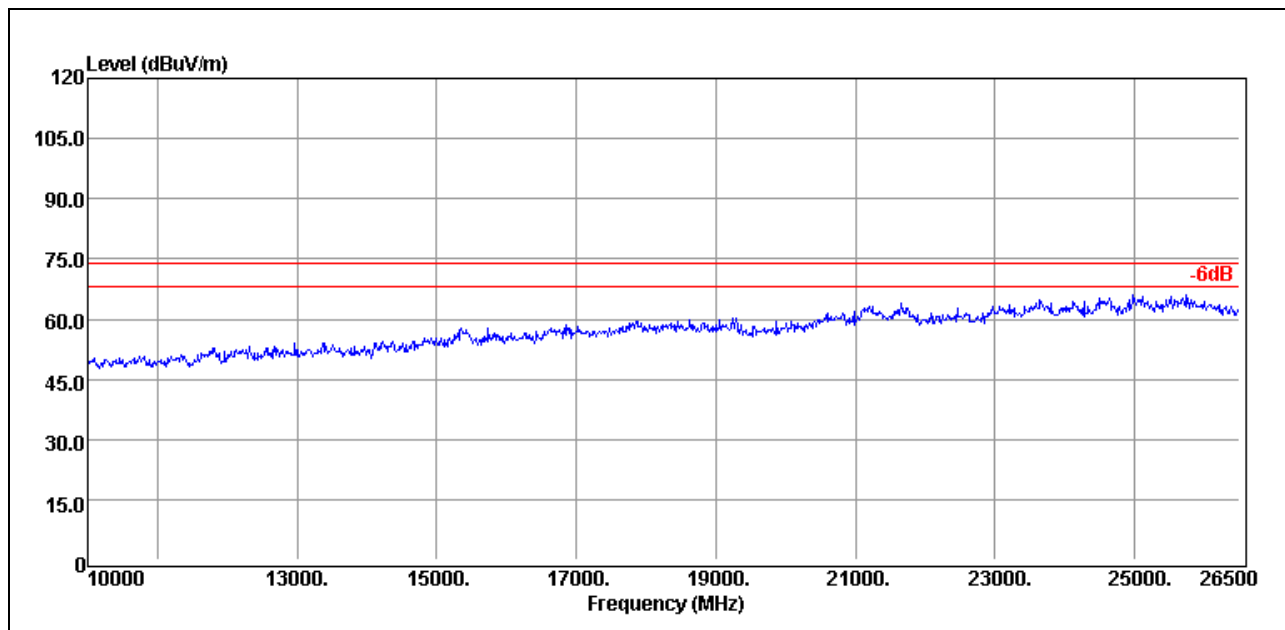
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



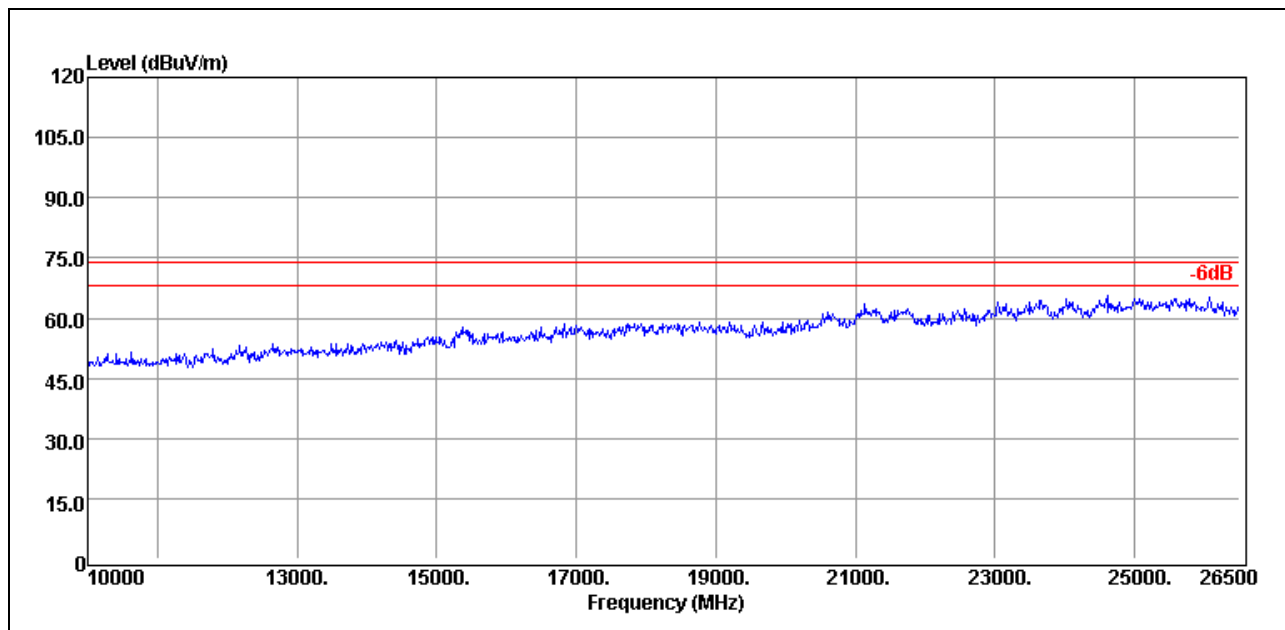
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

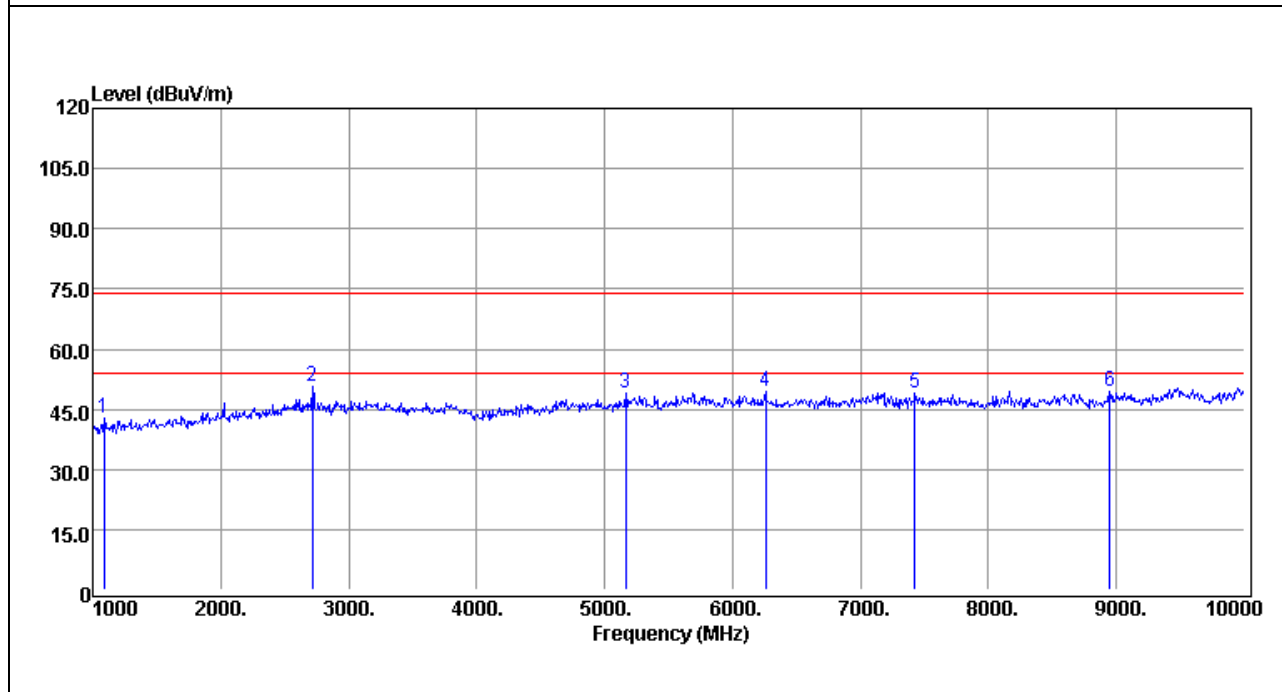


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2480MHz (3Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1090.00	42.52	0.08	42.6	74.00	31.40	peak
2719.00	44.15	6.6	50.75	74.00	23.25	peak
5167.00	43.66	5.27	48.93	74.00	25.07	peak
6256.00	46.87	2.74	49.61	74.00	24.39	peak
7426.00	47.12	2.06	49.18	74.00	24.82	peak
8947.00	46.62	2.8	49.42	74.00	24.58	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

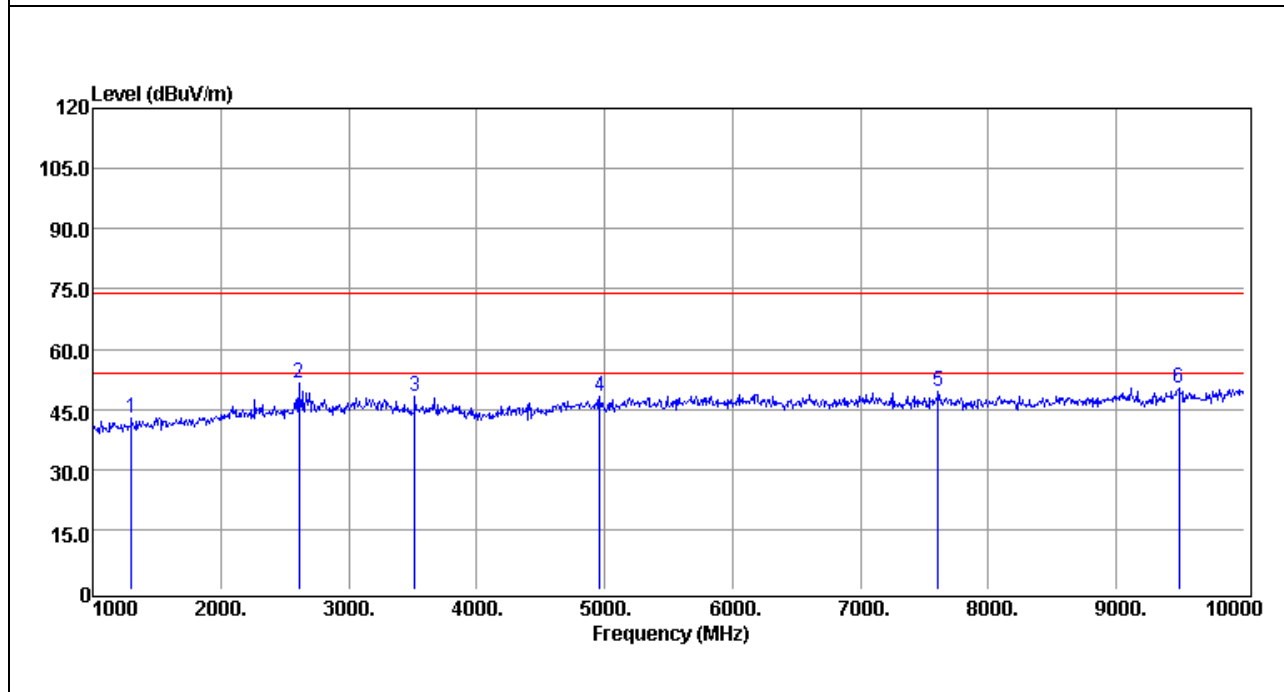


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	TX 2480MHz (3Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1306.00	41.84	0.81	42.65	74.00	31.35	peak
2611.00	45.07	6.27	51.34	74.00	22.66	peak
3520.00	40.85	7.46	48.31	74.00	25.69	peak
4960.00	40.27	7.81	48.08	74.00	25.92	peak
7606.00	47.42	1.94	49.36	74.00	24.64	peak
9487.00	46.36	3.74	50.10	74.00	23.90	peak

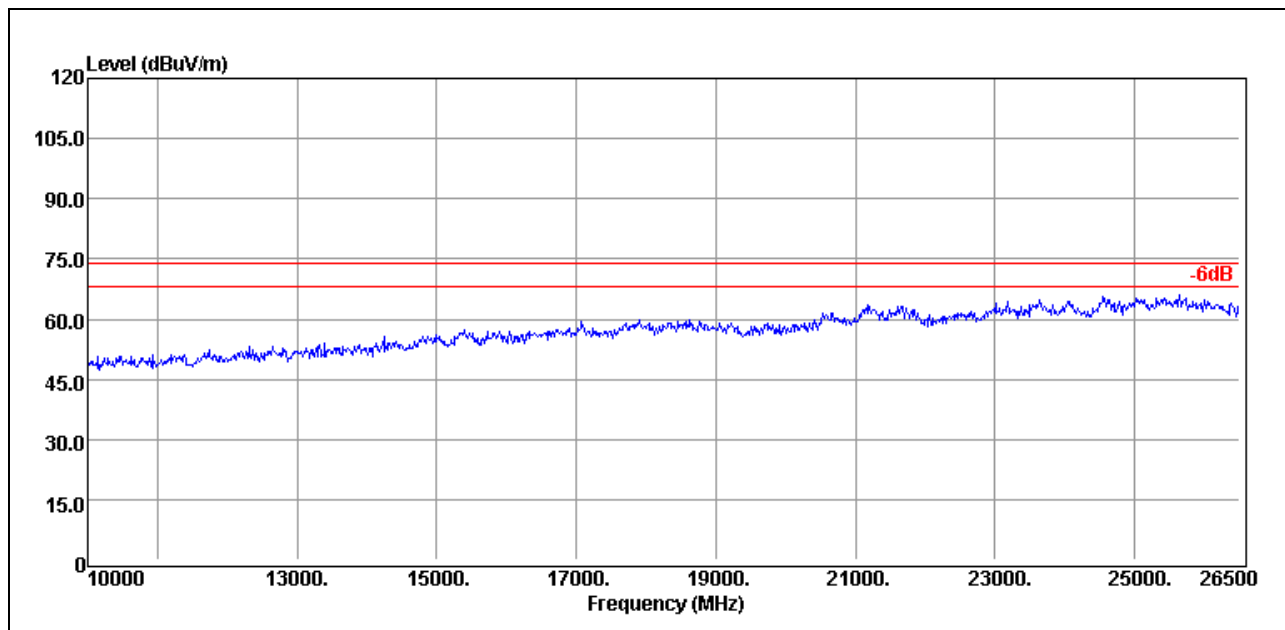
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



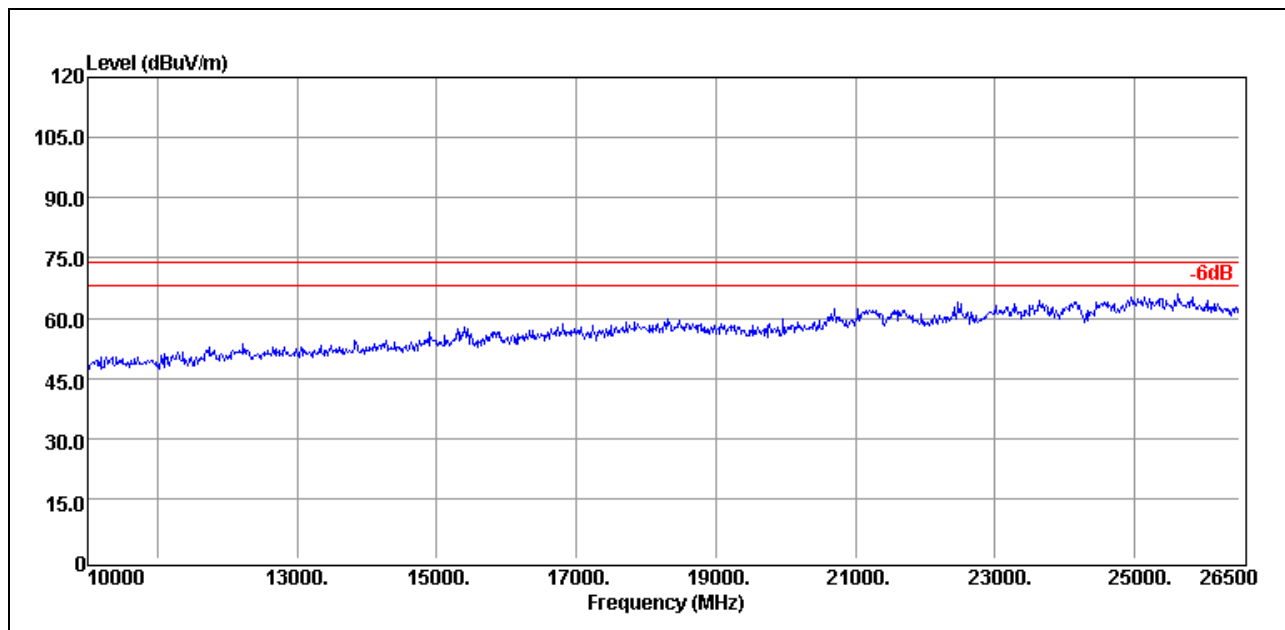
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

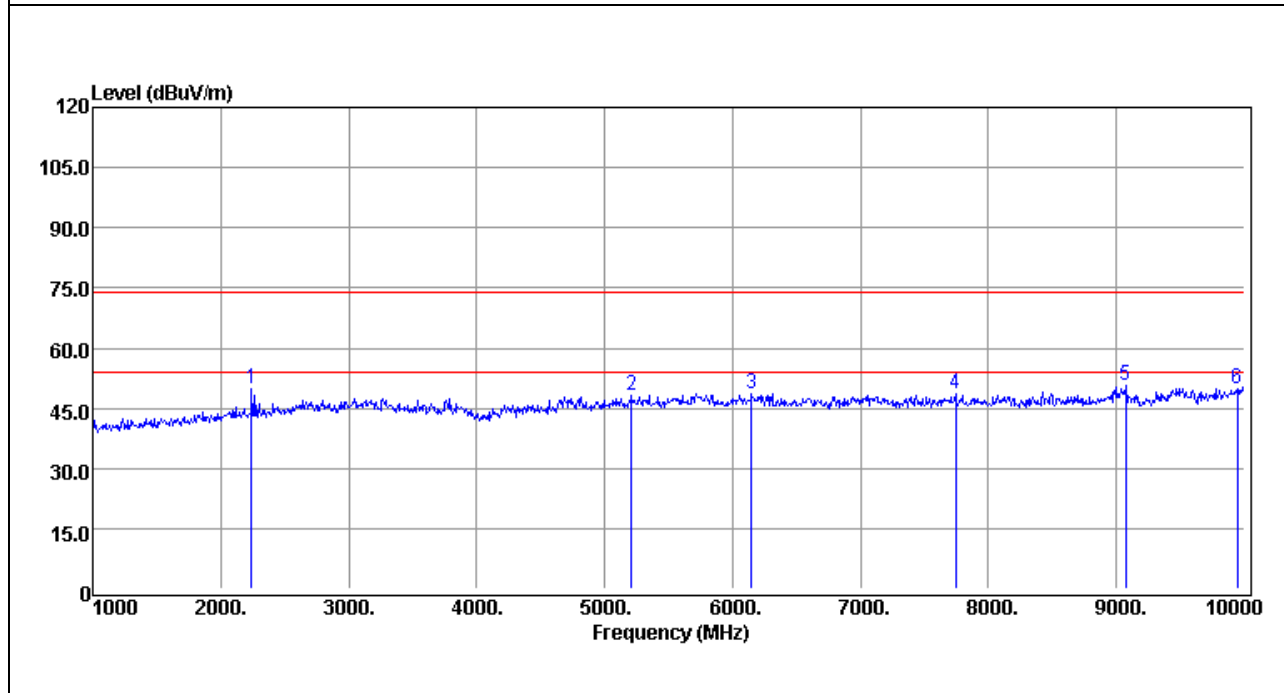


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2402MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2242.00	44.34	5.44	49.78	74.00	24.22	peak
5212.00	42.97	5.38	48.35	74.00	25.65	peak
6148.00	45.02	3.56	48.58	74.00	25.42	peak
7741.00	46.65	1.74	48.39	74.00	25.61	peak
9073.00	47.74	3.02	50.76	74.00	23.24	peak
9946.00	45.66	4.39	50.05	74.00	23.95	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

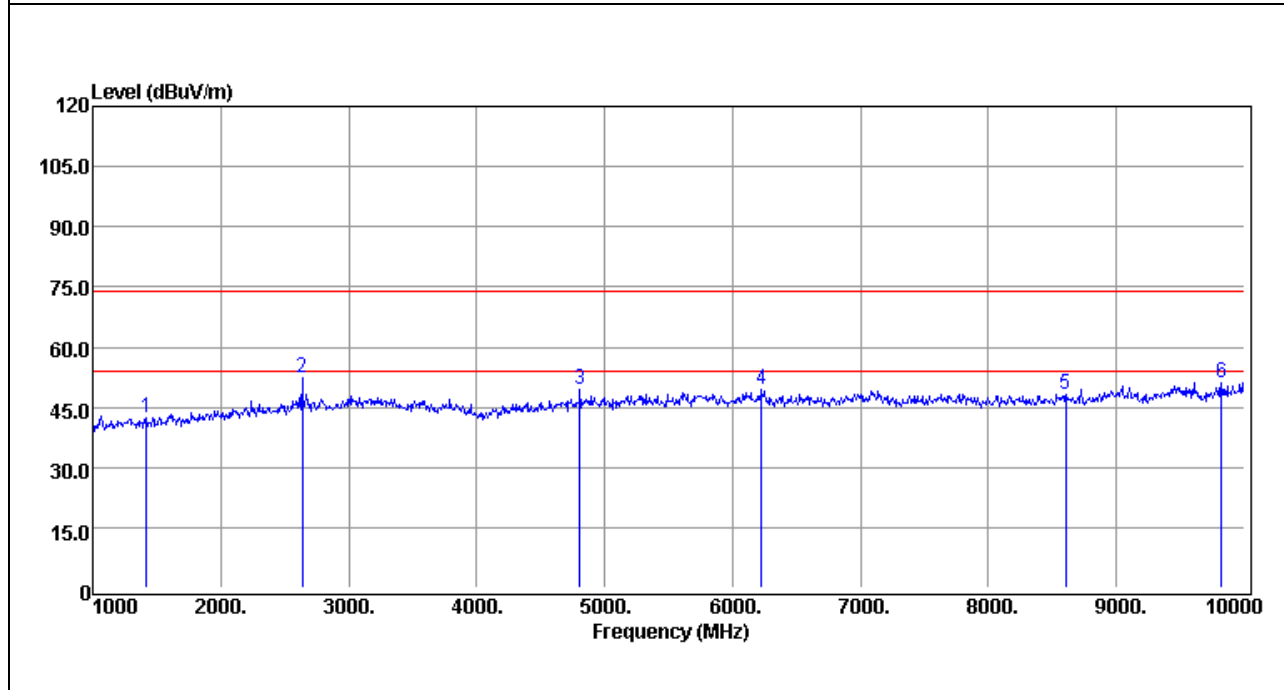


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2402MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1423.00	41.27	1.23	42.5	74.00	31.50	peak
2638.00	45.81	6.33	52.14	74.00	21.86	peak
4807.00	40.22	9.4	49.62	74.00	24.38	peak
6229.00	45.83	3.7	49.53	74.00	24.47	peak
8605.00	45.85	2.22	48.07	74.00	25.93	peak
9820.00	46.86	4.21	51.07	74.00	22.93	peak

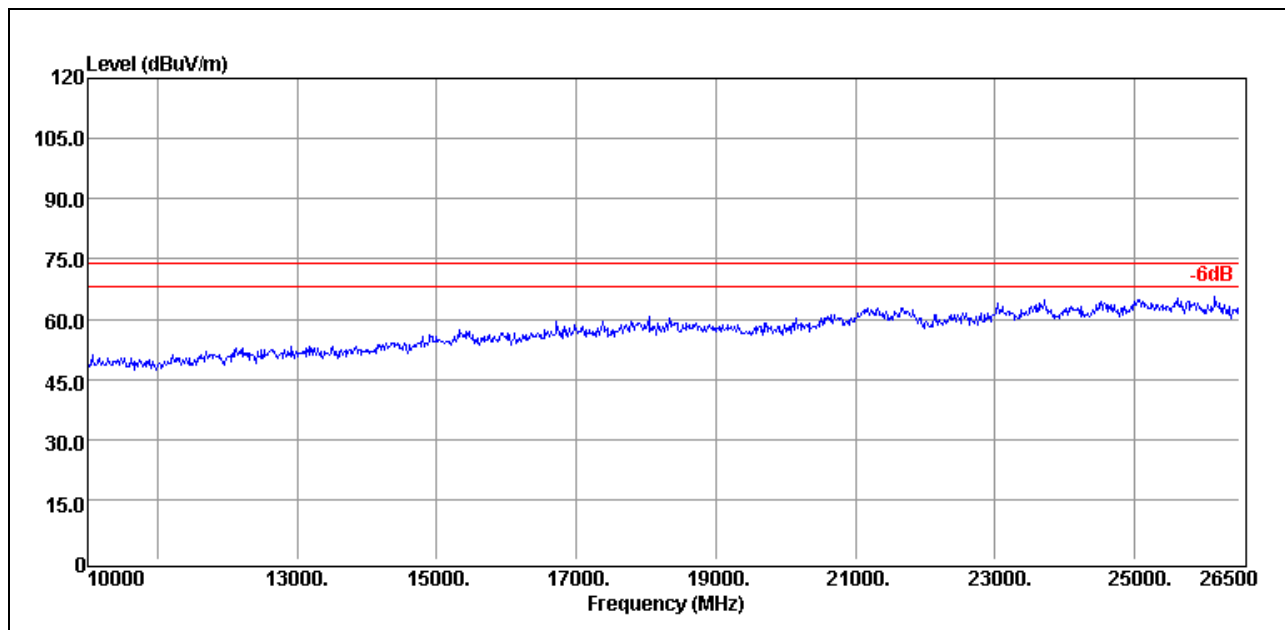
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



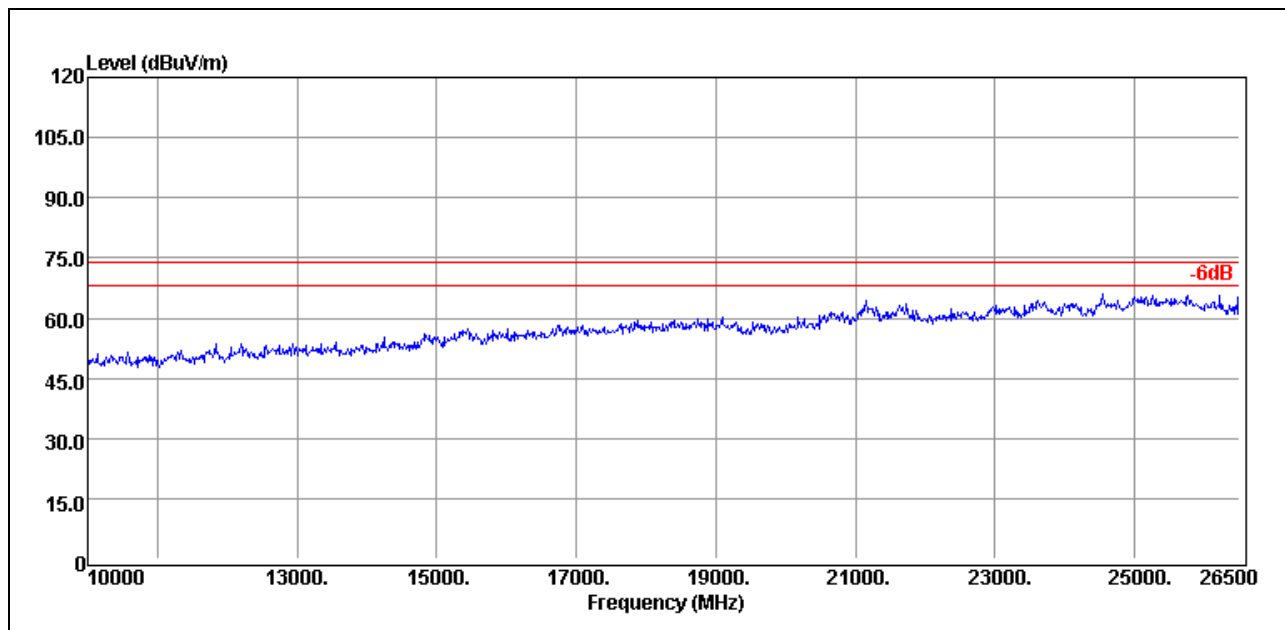
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

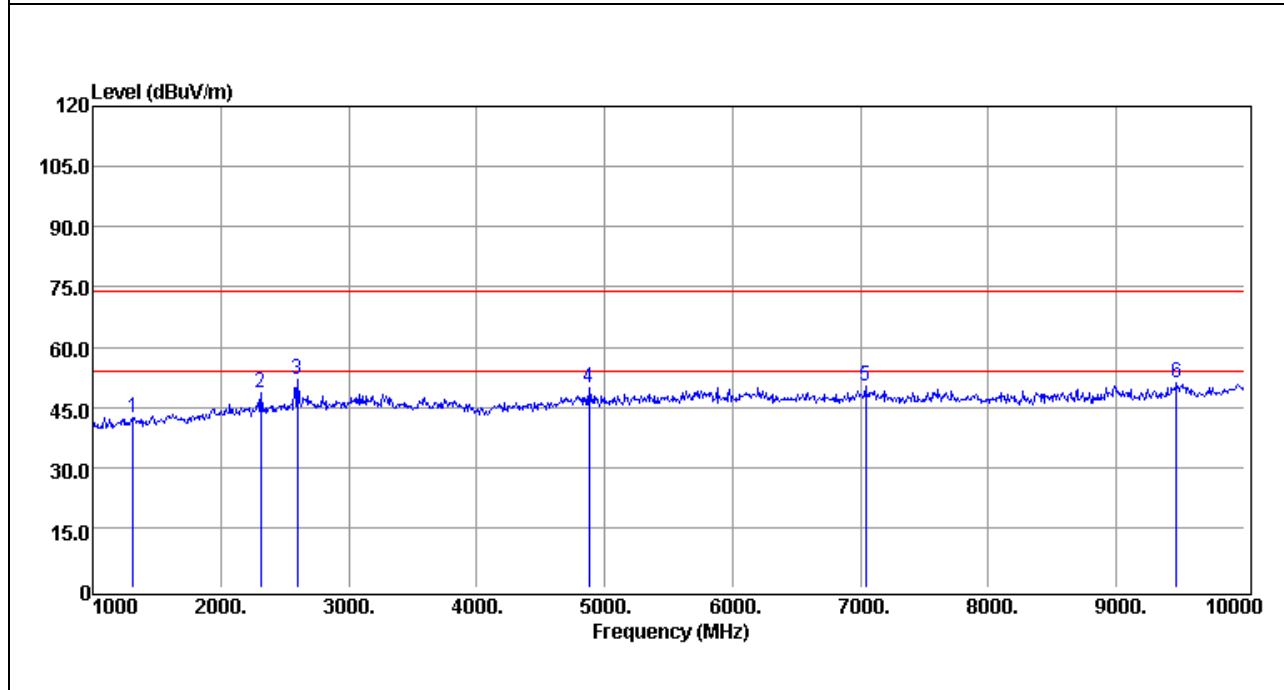


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2441MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1315.00	41.57	0.89	42.46	74.00	31.54	peak
2314.00	42.95	5.54	48.49	74.00	25.51	peak
2602.00	45.85	6.19	52.04	74.00	21.96	peak
4879.00	41.46	8.58	50.04	74.00	23.96	peak
7039.00	47.35	2.69	50.04	74.00	23.96	peak
9469.00	47.34	3.72	51.06	74.00	22.94	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

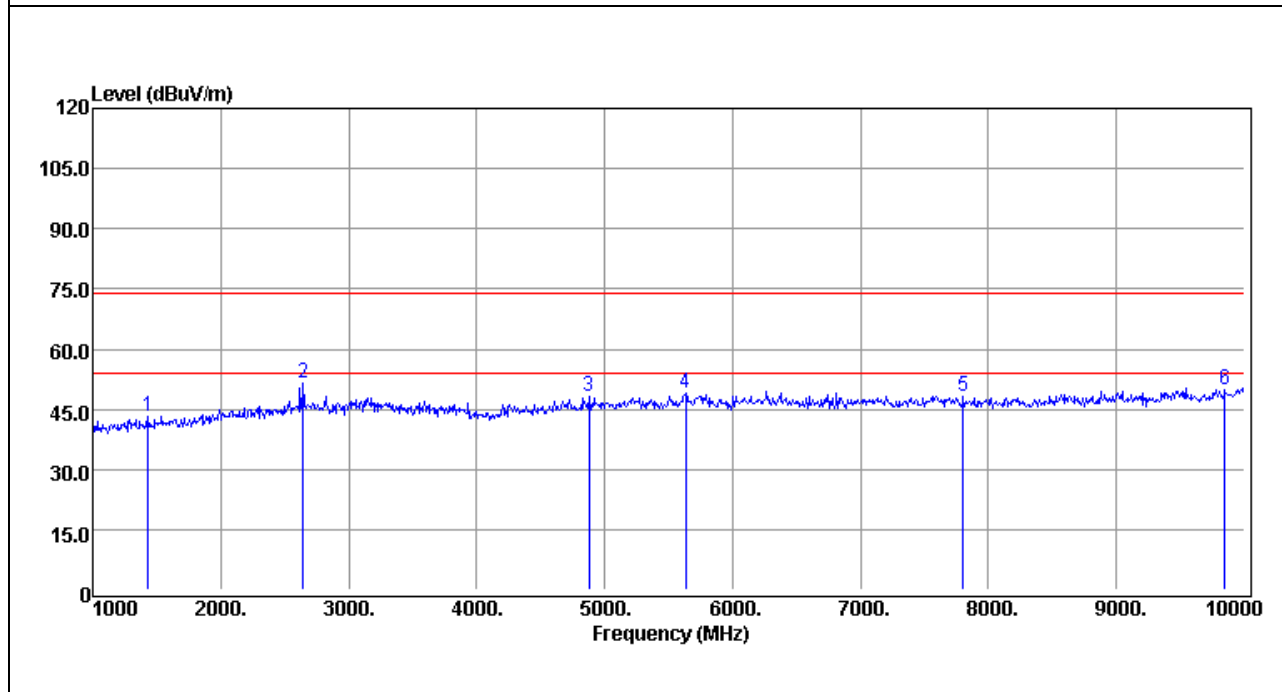


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2441MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1432.00	42.05	1.23	43.28	74.00	30.72	peak
2647.00	45.17	6.37	51.54	74.00	22.46	peak
4879.00	39.72	8.58	48.3	74.00	25.70	peak
5635.00	43.91	5.3	49.21	74.00	24.79	peak
7804.00	46.63	1.68	48.31	74.00	25.69	peak
9847.00	45.71	4.25	49.96	74.00	24.04	peak

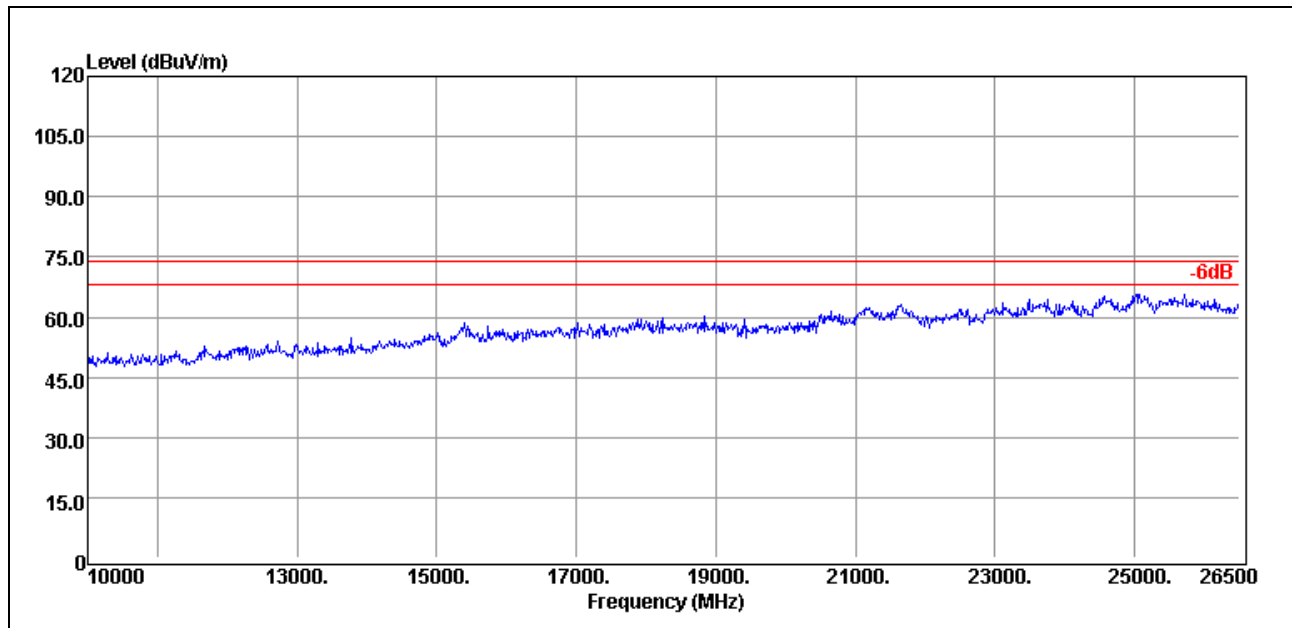
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



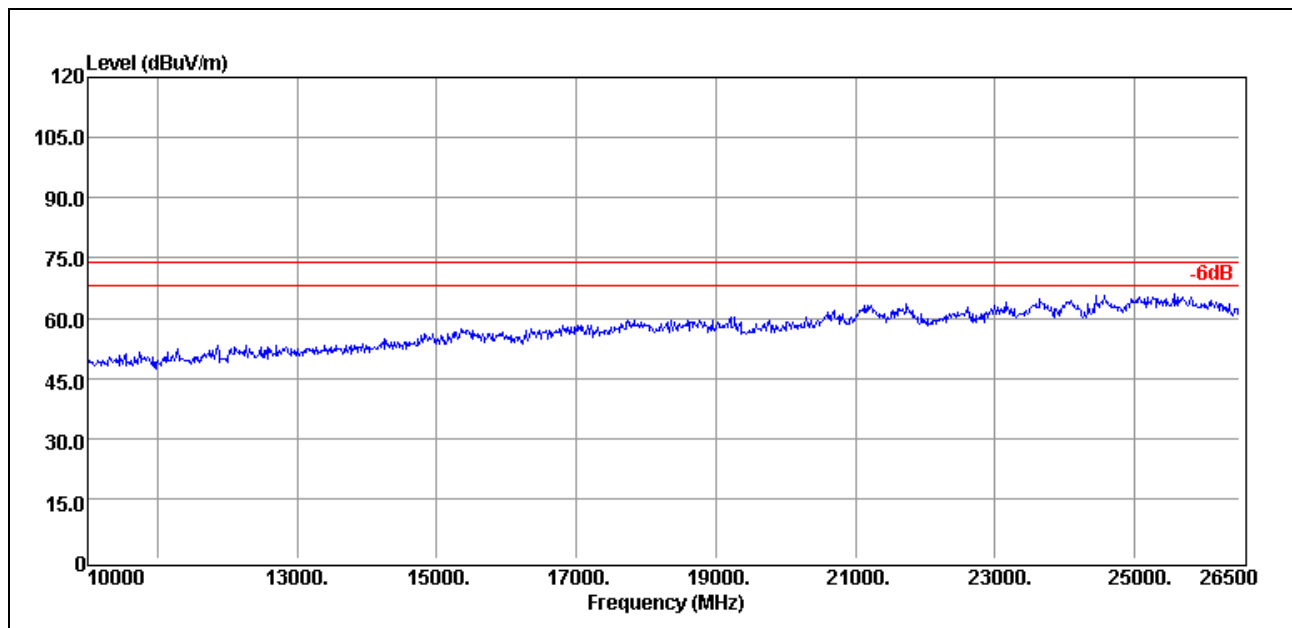
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz

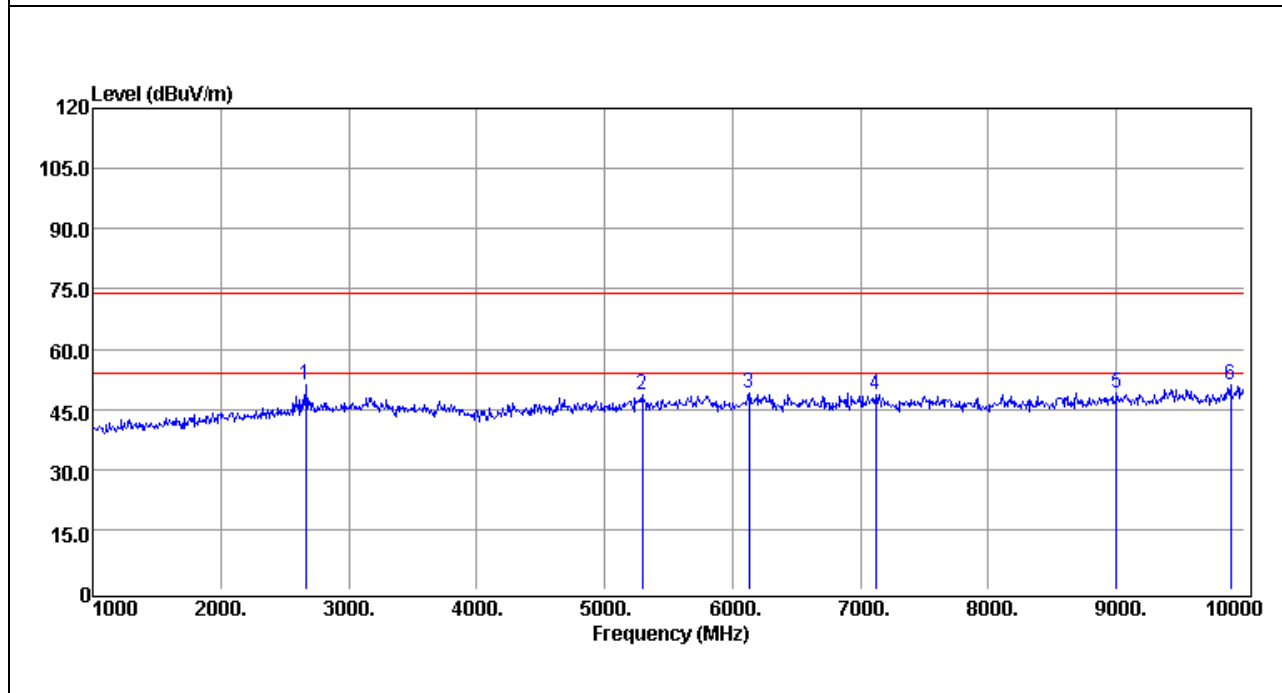


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2480MHz (1Mbps-worst case)	Polarization :	Horizontal
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2665.00	44.73	6.43	51.16	74.00	22.84	peak
5293.00	43.14	5.54	48.68	74.00	25.32	peak
6130.00	45.35	3.54	48.89	74.00	25.11	peak
7120.00	45.94	2.77	48.71	74.00	25.29	peak
9001.00	46.06	2.9	48.96	74.00	25.04	peak
9892.00	46.82	4.32	51.14	74.00	22.86	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

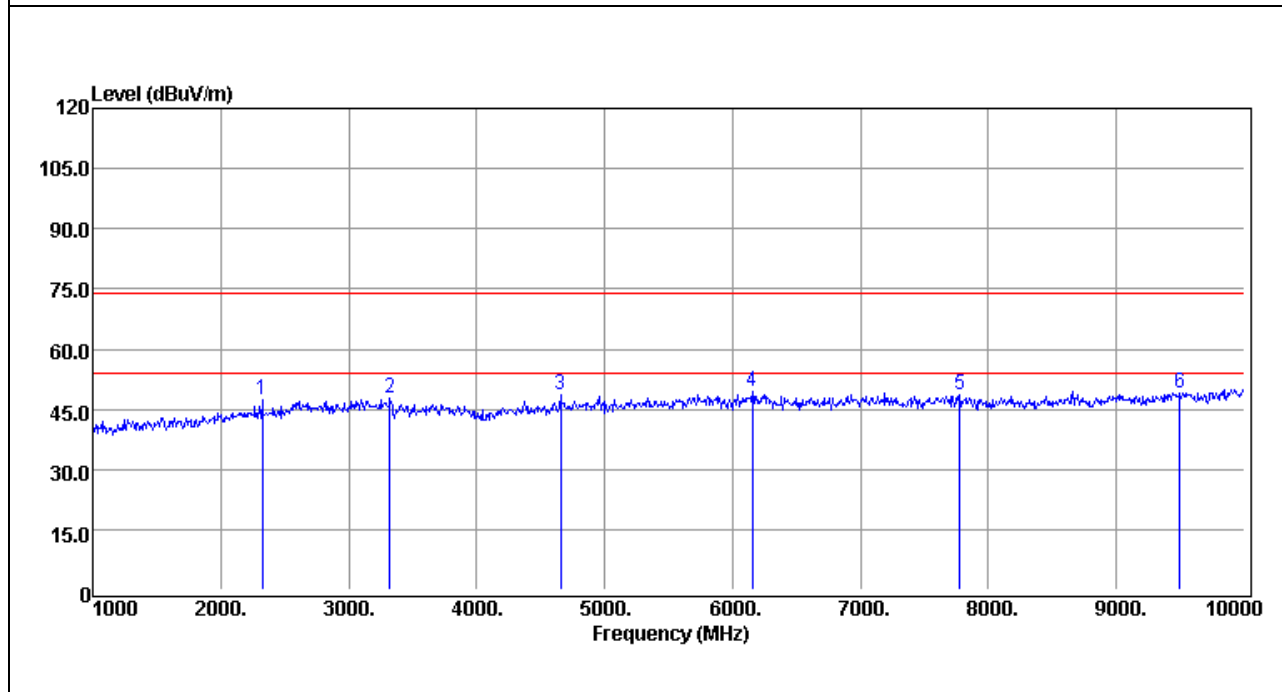


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-10-13
Test Mode :	RX 2480MHz (1Mbps-worst case)	Polarization :	Vertical
Test Power :	AC 110V/60Hz		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2323.00	41.74	5.57	47.31	74.00	26.69	peak
3322.00	40.37	7.51	47.88	74.00	26.12	peak
4654.00	39.46	8.97	48.43	74.00	25.57	peak
6157.00	45.75	3.57	49.32	74.00	24.68	peak
7777.00	46.82	1.69	48.51	74.00	25.49	peak
9496.00	45.38	3.78	49.16	74.00	24.84	peak

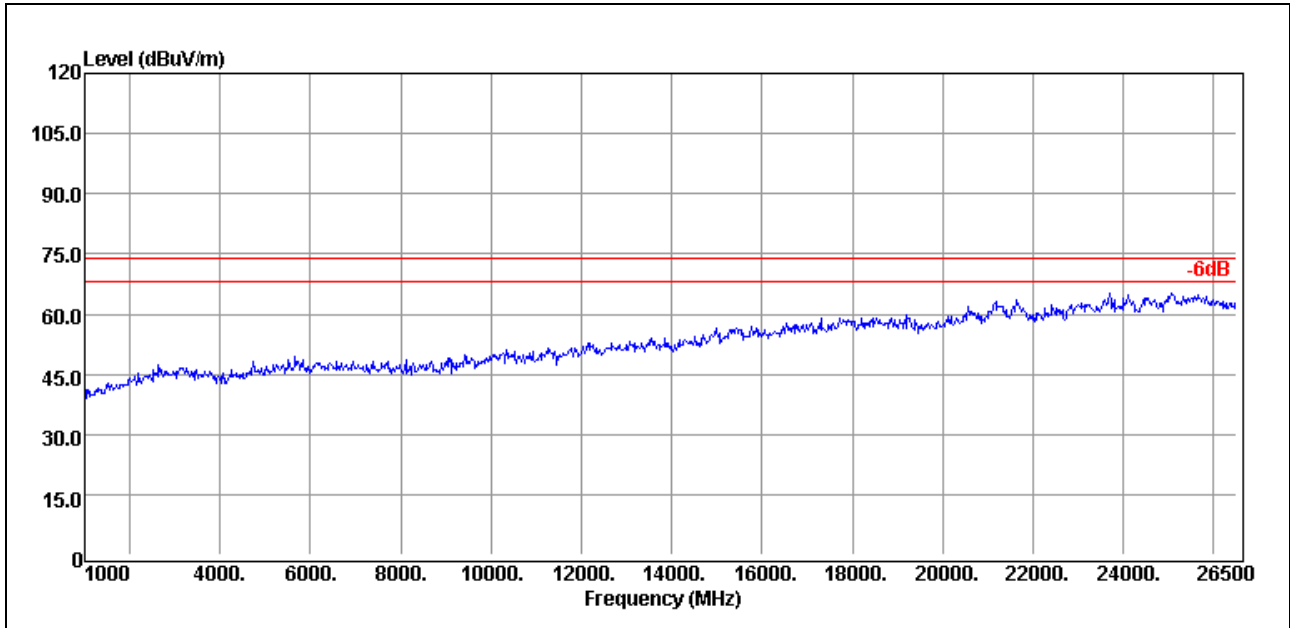
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



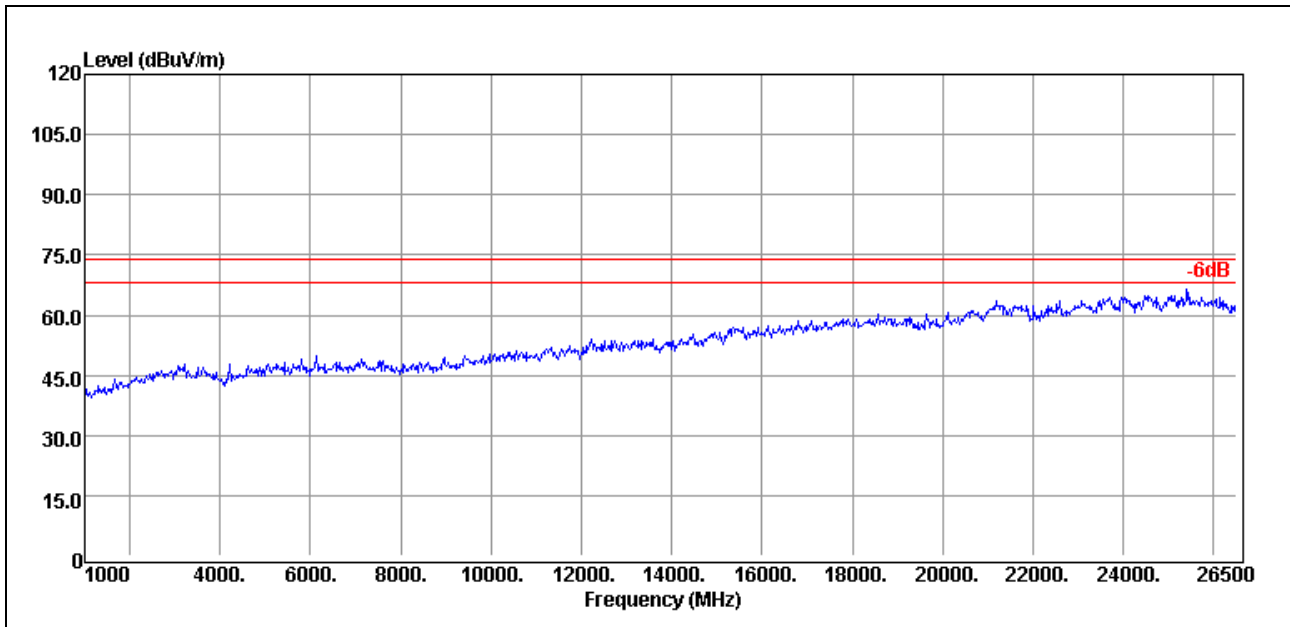
Horizontal

Detect: 10GHz -26.5GHz



Vertical

Detect: 10GHz -26.5GHz



Test result: The unit does meet the NCC requirements.

2.2.8 3.2.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	TX 2402MHz/2480MHz (1Mbps)		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz. 3. The data of 2390MHz and 2483.5MHz was the worst.		

Freq. (MHz) (Peak)	Freq. (MHz) (AV)	Ant.Pol. H/V	Reading		Ant/CF CF(dB)	Act		Limit		Note
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)	
2390.000	2390.000	V	43.51	39.55	5.76	49.27	45.31	74.00	54.00	CH00
2402.620	2402.620	V	89.23	84.23	5.78	---	---	---	---	CH00
2390.000	2390.000	H	43.82	38.43	5.76	49.58	44.19	74.00	54.00	CH00
2401.960	2401.960	H	90.58	84.53	5.78	---	---	---	---	CH00
2480.000	2480.000	V	90.95	86.84	5.93	---	---	---	---	CH78
2483.500	2483.500	V	45.05	38.07	5.93	50.98	44.00	74.00	54.00	CH78
2480.000	2480.025	H	89.11	86.16	5.93	---	---	---	---	CH78
2483.500	2483.500	H	44.72	38.87	5.93	50.65	44.80	74.00	54.00	CH78

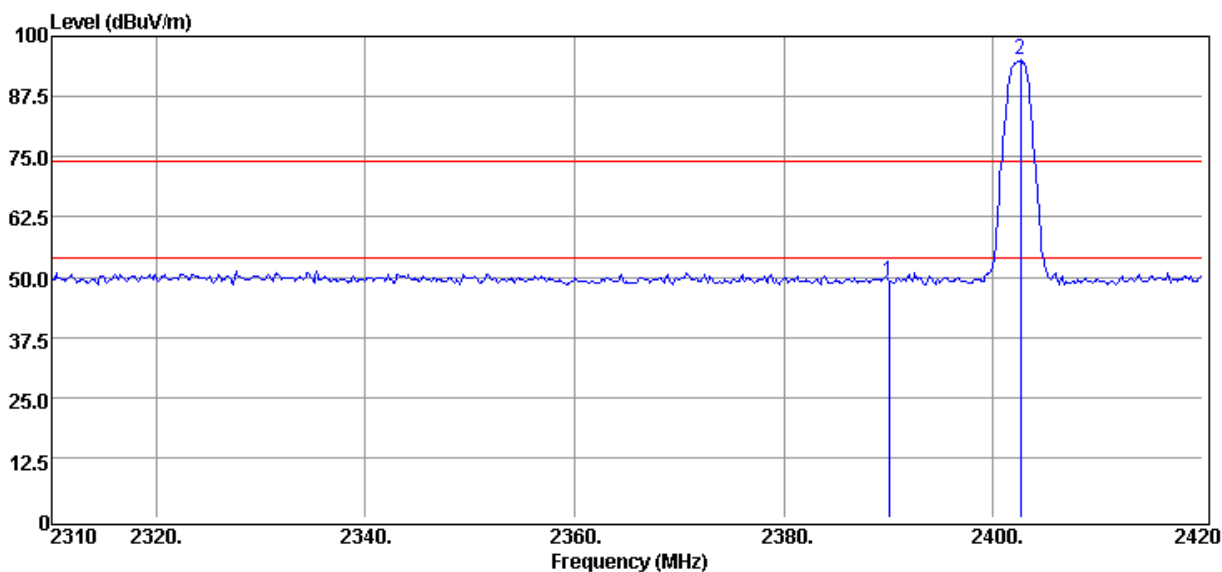
Remark :

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

CH-Low (CH00)

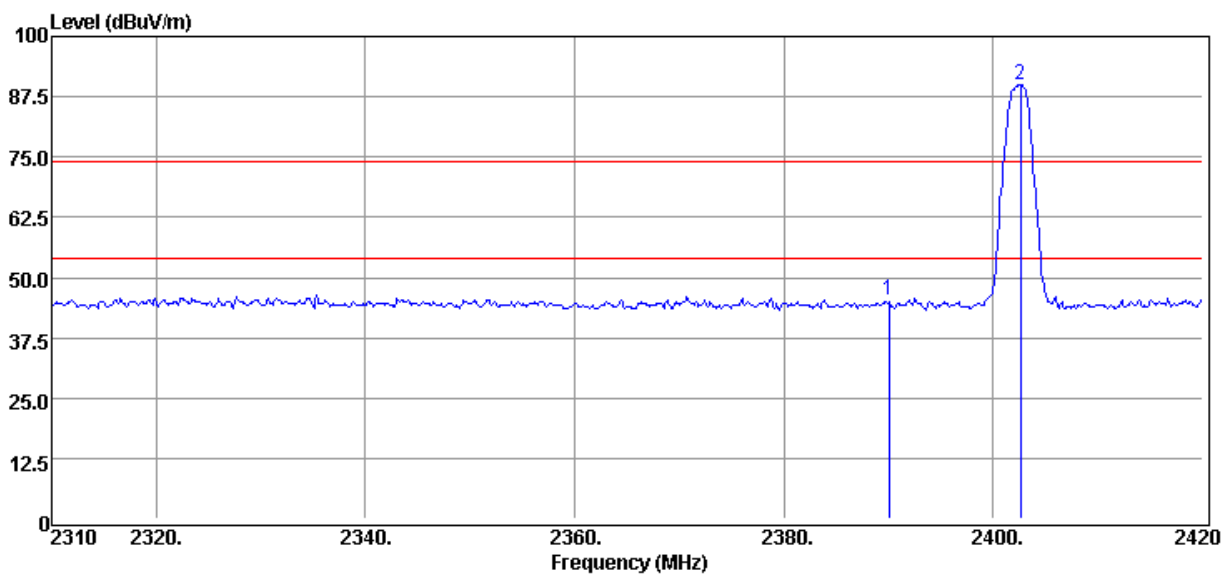
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

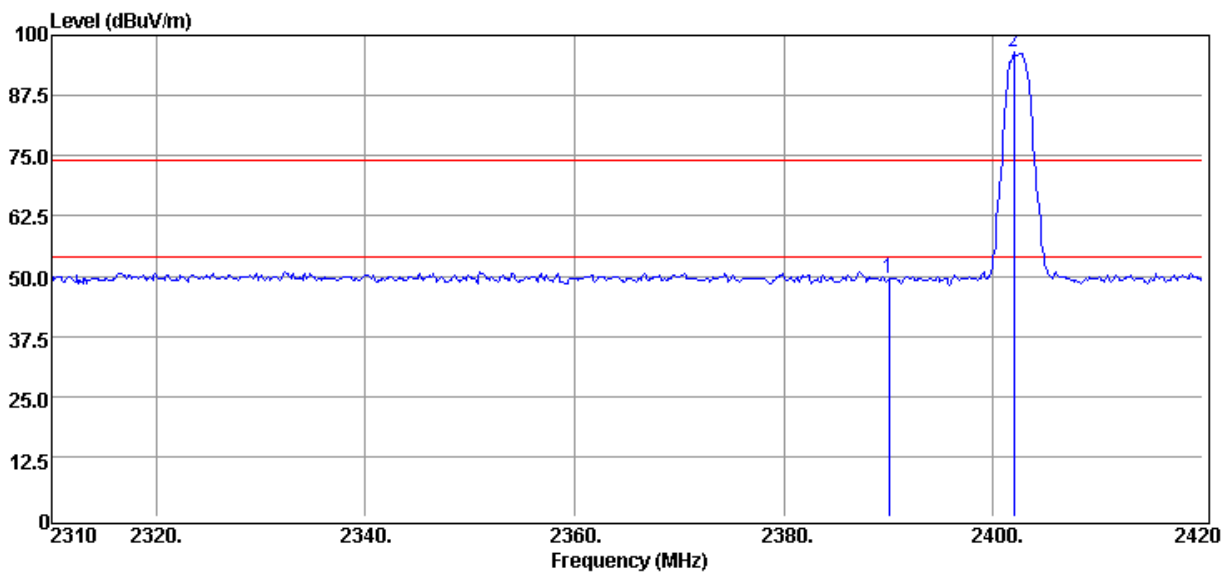
Polarity: Vertical



CH-Low (CH00)

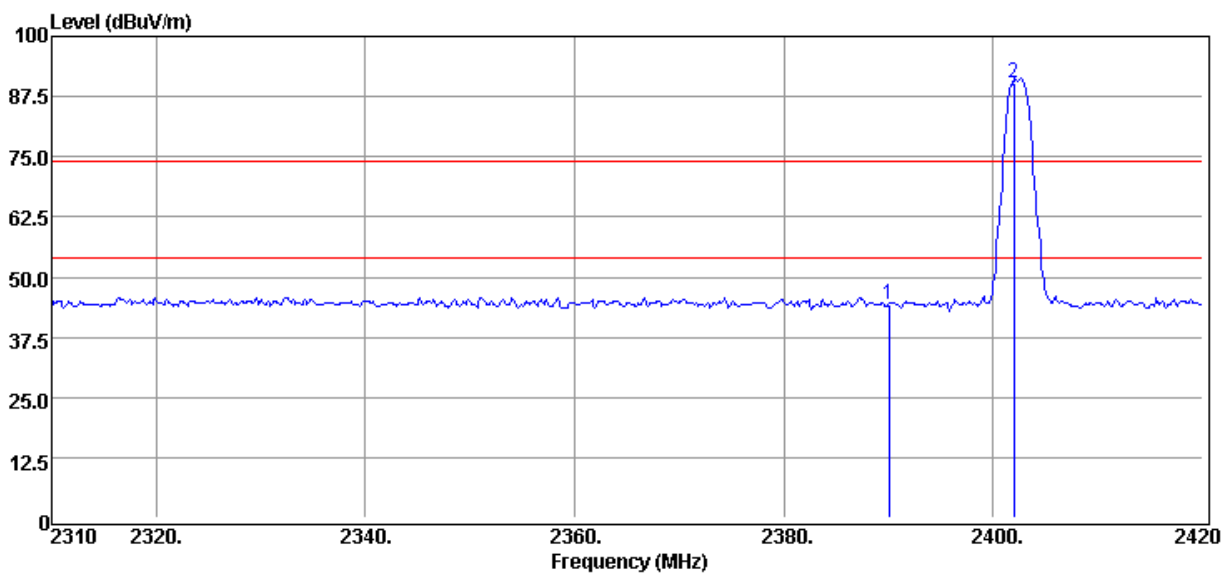
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

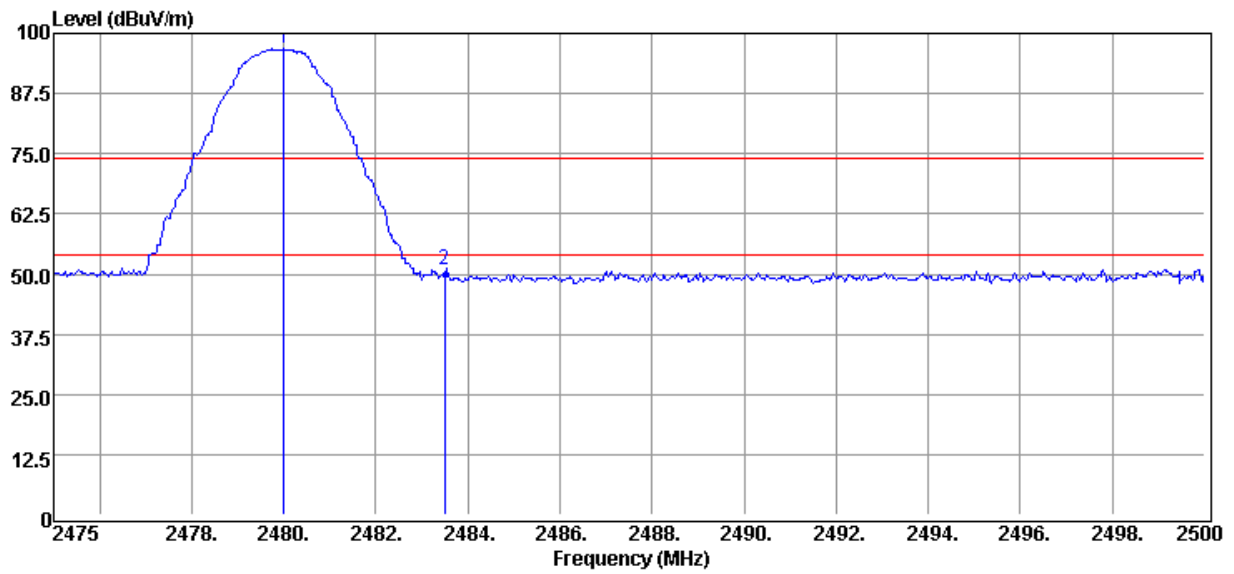
Polarity: Horizontal



CH-High (CH78)

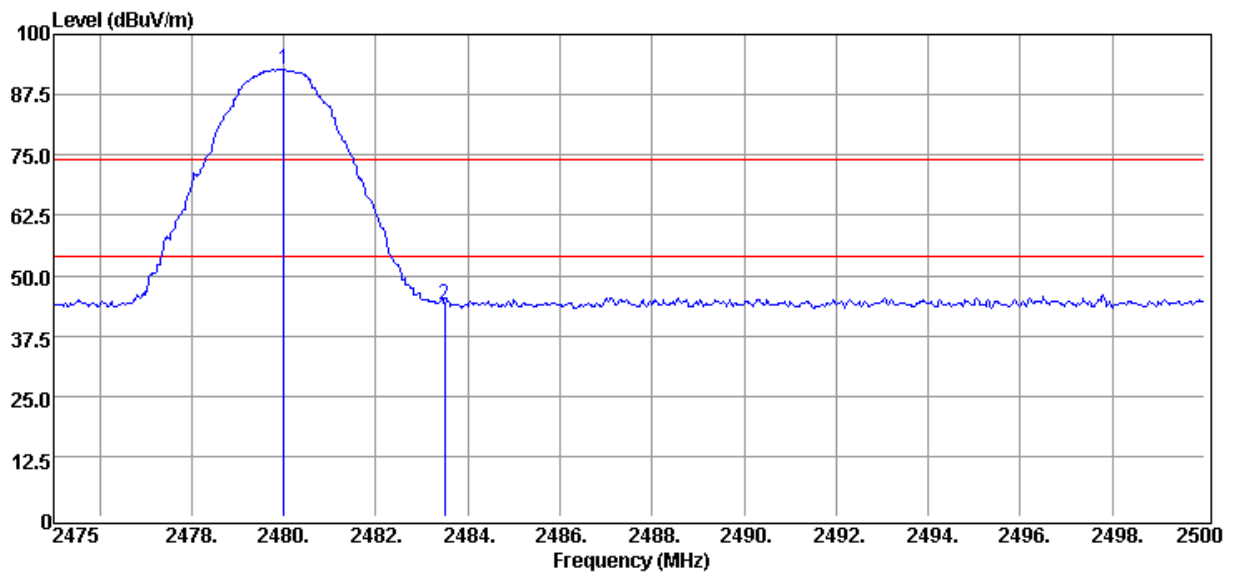
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

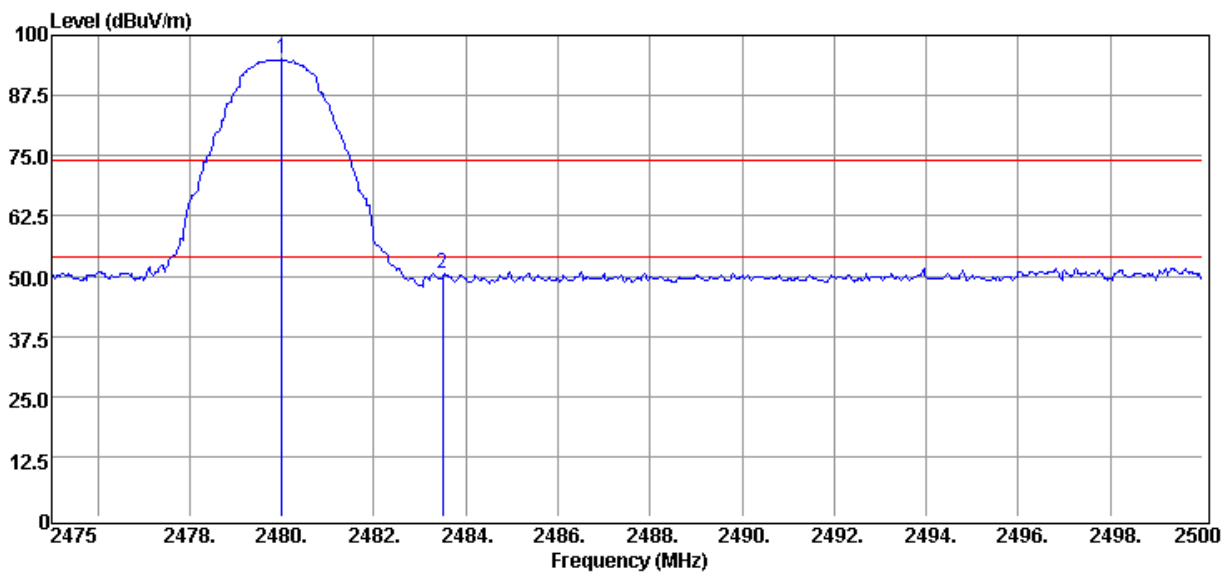
Polarity: Vertical



CH-High (CH78)

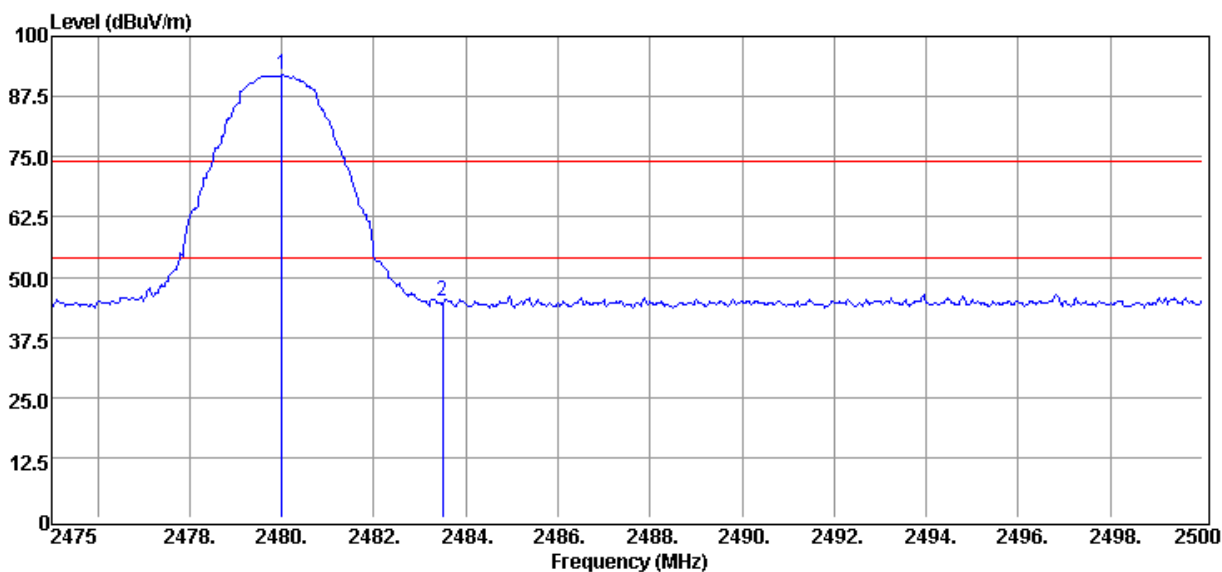
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	TX 2402MHz/2480MHz (3Mbps)		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz. 3. The data of 2390MHz and 2483.5MHz was the worst.		

Freq. (MHz) (Peak)	Freq. (MHz) (AV)	Ant.Pol. H/V	Reading		Ant/CF CF(dB)	Act		Limit		Note
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)	
2390.000	2390.000	V	43.87	39.61	5.76	49.63	45.37	74.00	54.00	CH00
2402.620	2402.620	V	89.43	84.32	5.79	---	---	---	---	CH00
2390.000	2390.000	H	44.12	38.47	5.78	49.90	44.25	74.00	54.00	CH00
2401.960	2401.960	H	90.67	84.85	5.78	---	---	---	---	CH00
2480.000	2480.000	V	91.02	86.74	5.93	---	---	---	---	CH78
2483.500	2483.500	V	45.07	39.08	5.93	51.00	45.01	74.00	54.00	CH78
2480.000	2480.025	H	89.23	86.29	5.93	---	---	---	---	CH78
2483.500	2483.500	H	44.81	38.95	5.93	50.74	44.88	74.00	54.00	CH78

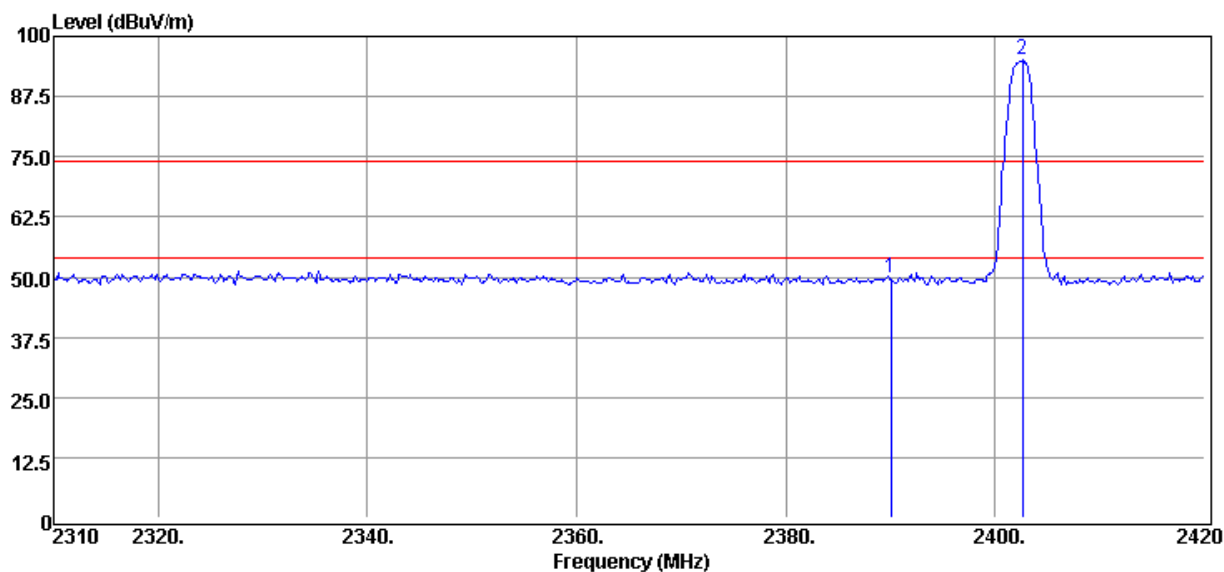
Remark :

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

CH-Low (CH00)

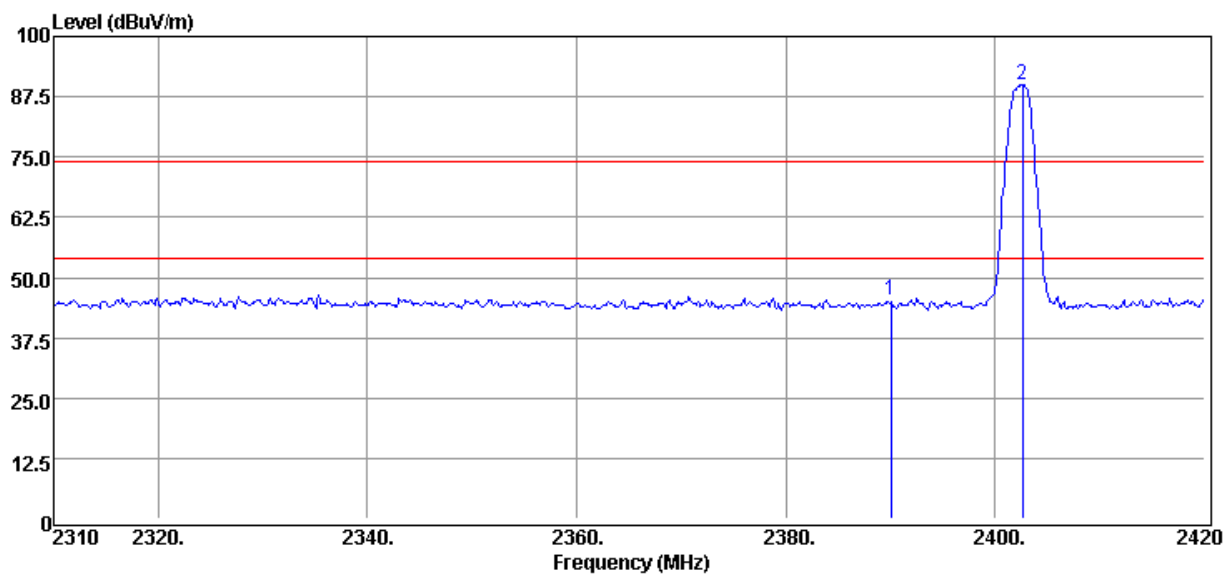
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

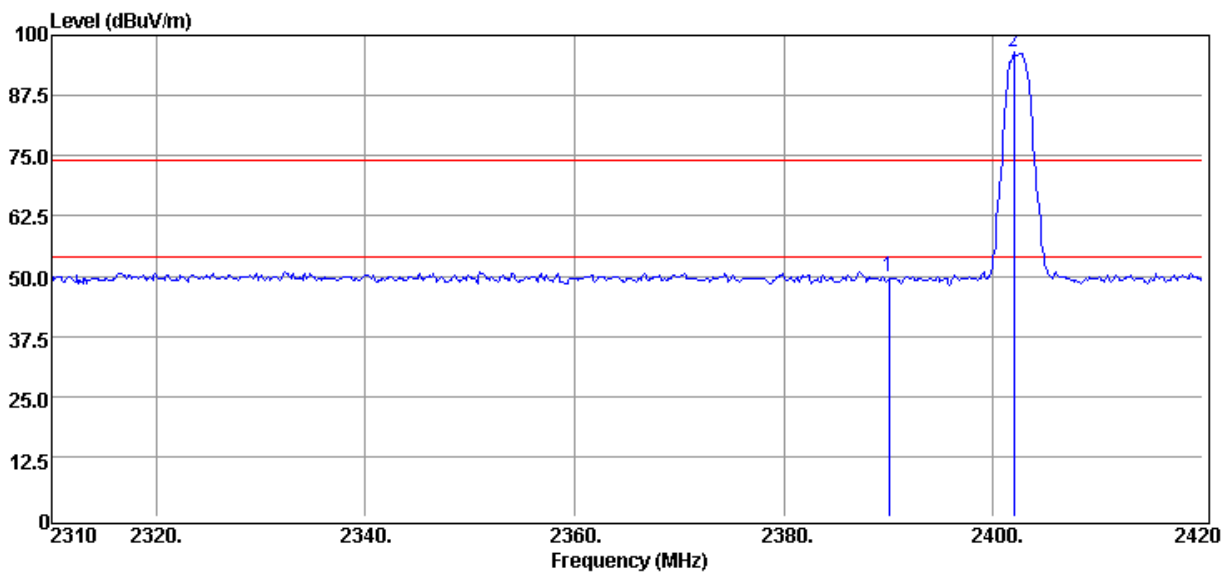
Polarity: Vertical



CH-Low (CH00)

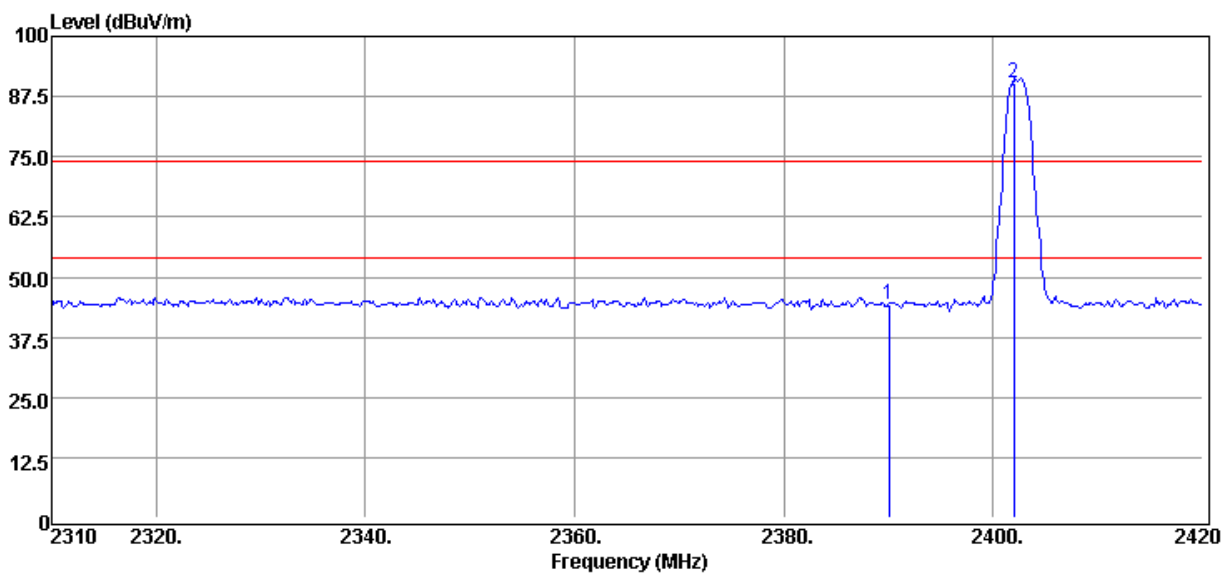
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

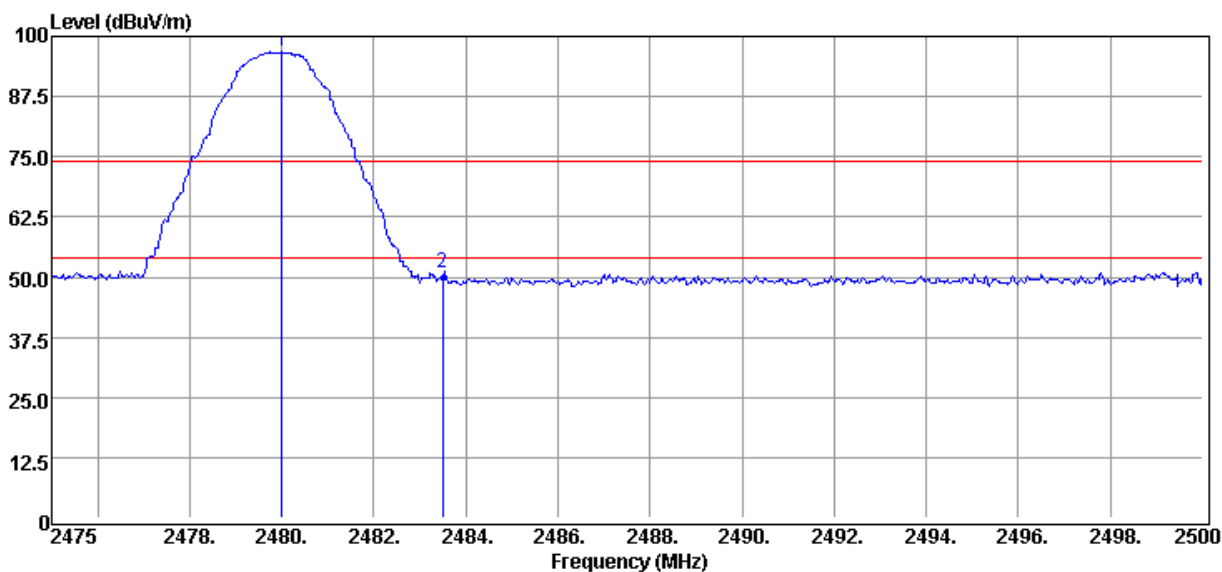
Polarity: Horizontal



CH-High (CH78)

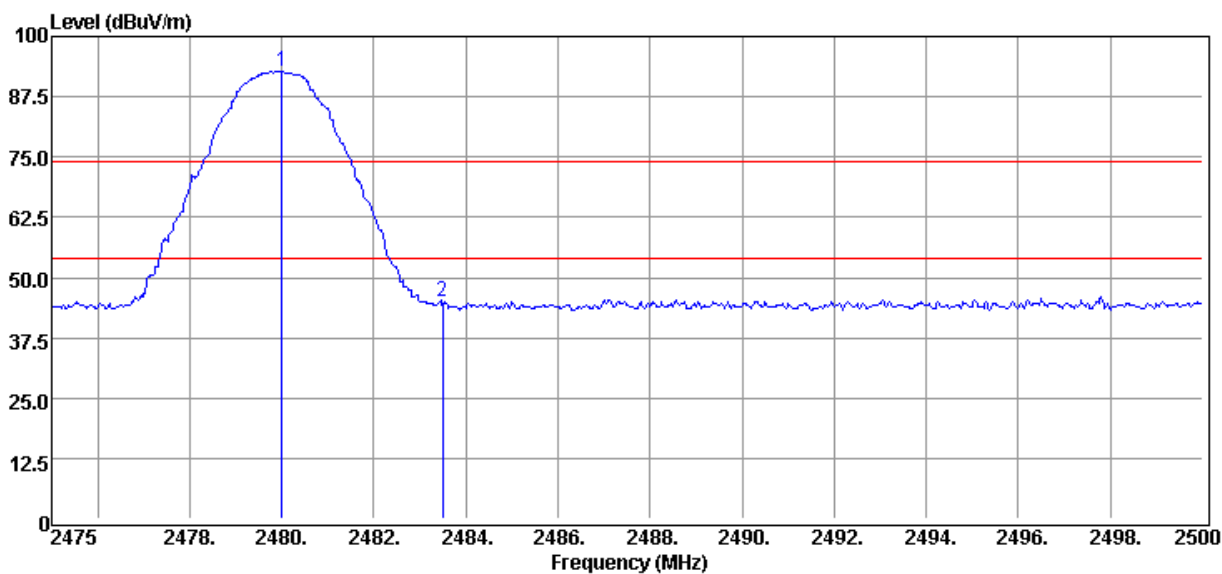
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

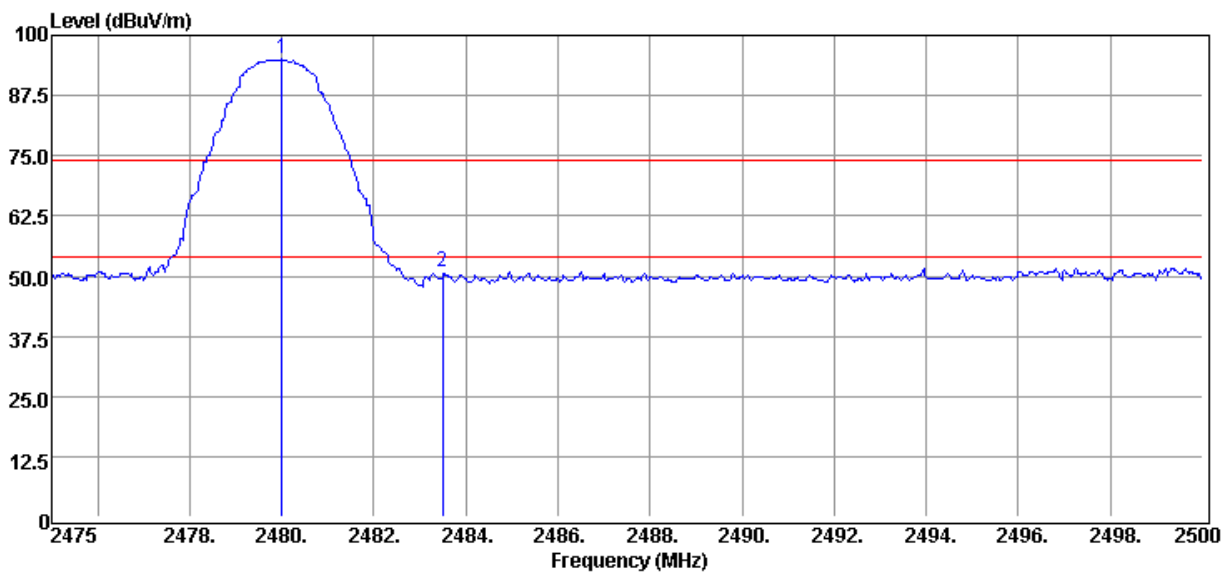
Polarity: Vertical



CH-High (CH78)

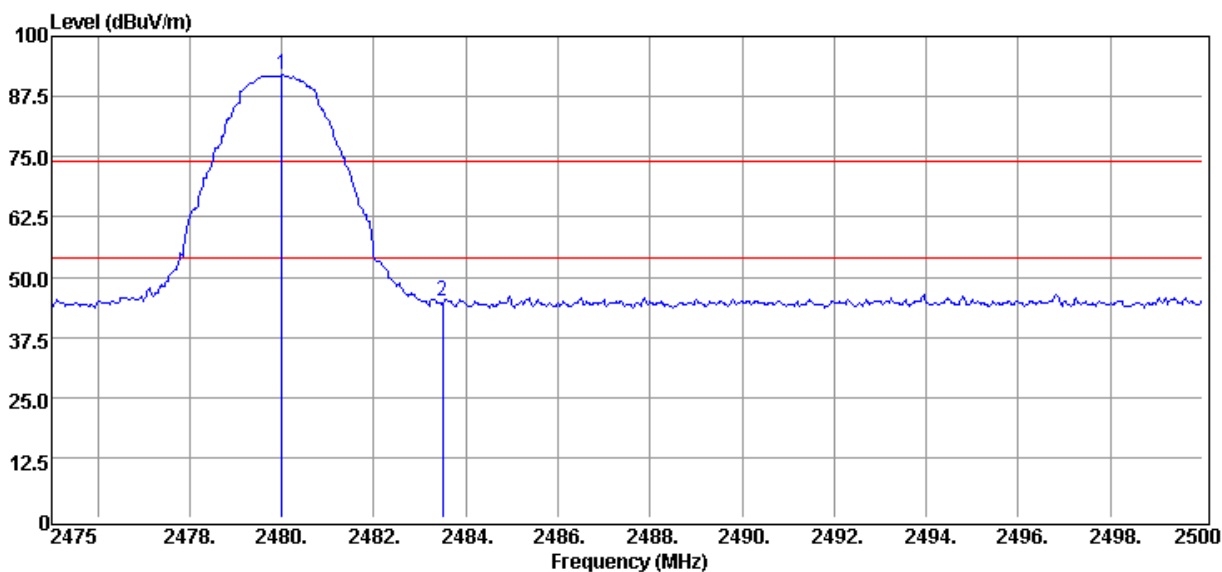
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



4. 3OCCUPIED BANDWIDTH TEST

3.1 4.1 APPLIED PROCEDURES / LIMIT

LP0002				
Section	Test Item	Limit	Frequency Range (MHz)	Result
3.10.1(6.1.1)	Bandwidth	N/A	2402-2480	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.1.1 4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

3.1.2 4.1.2 TEST SETUP



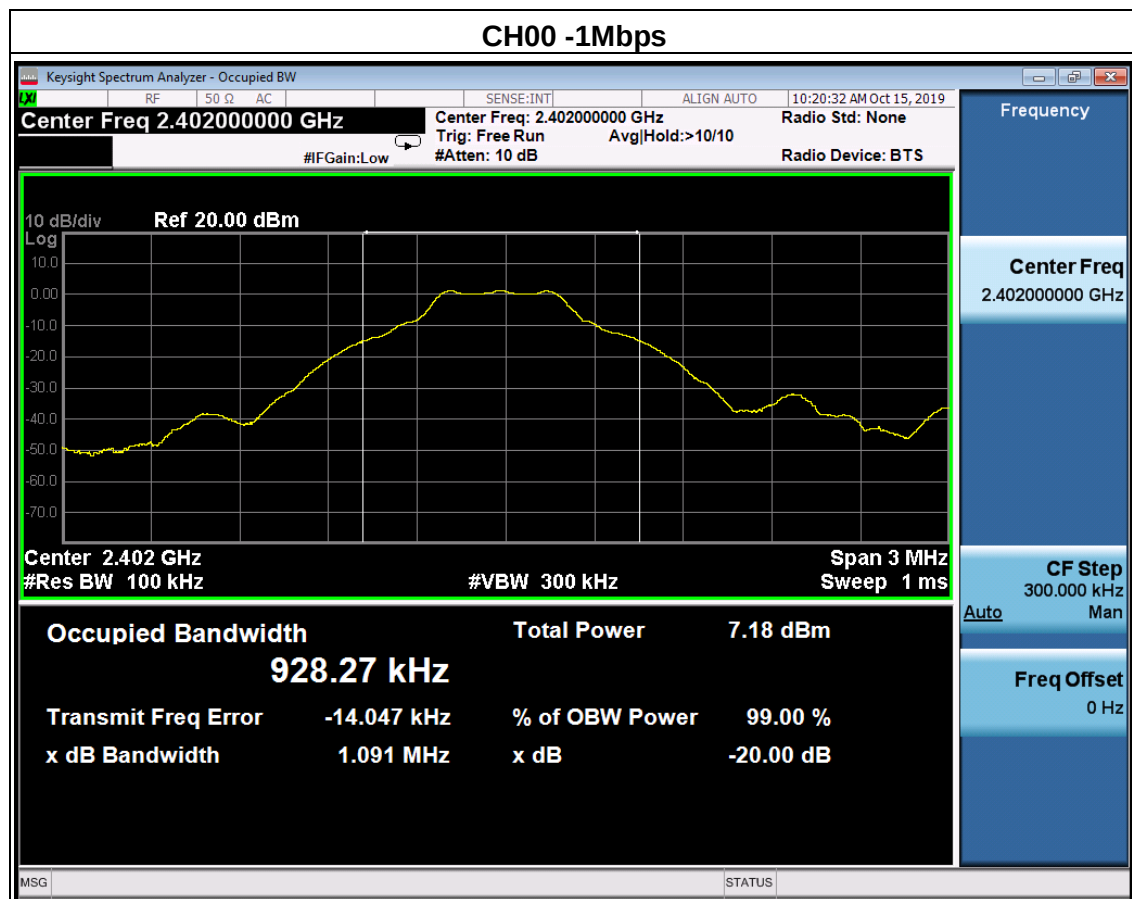
3.1.3 4.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.4 4.1.4 TEST RESULTS

EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

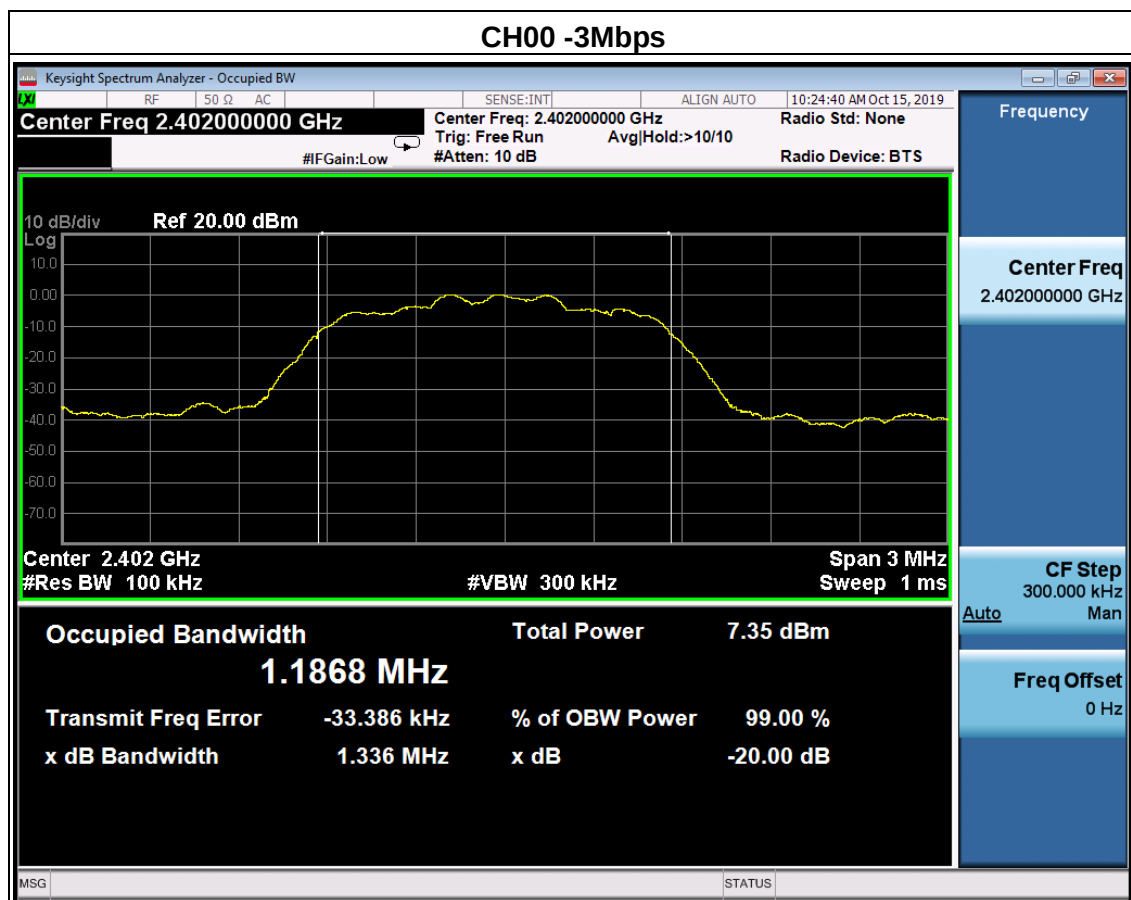
Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	1091	Pass
2441 MHz	1092	Pass
2480 MHz	1083	Pass





EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	1366	Pass
2441 MHz	1340	Pass
2480 MHz	1342	Pass





5. 4NUMBER OF HOPPING CHANNEL

4.1 5.1 APPLIED PROCEDURES / LIMIT

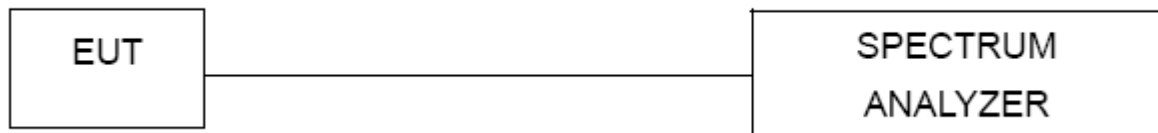
LP0002			
Section	Test Item	Frequency Range (MHz)	Result
3.10.1(6.1.1)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 1 MHz, VBW=1 MHz, Sweep time = Auto.

4.1.2 5.1.2 TEST SETUP



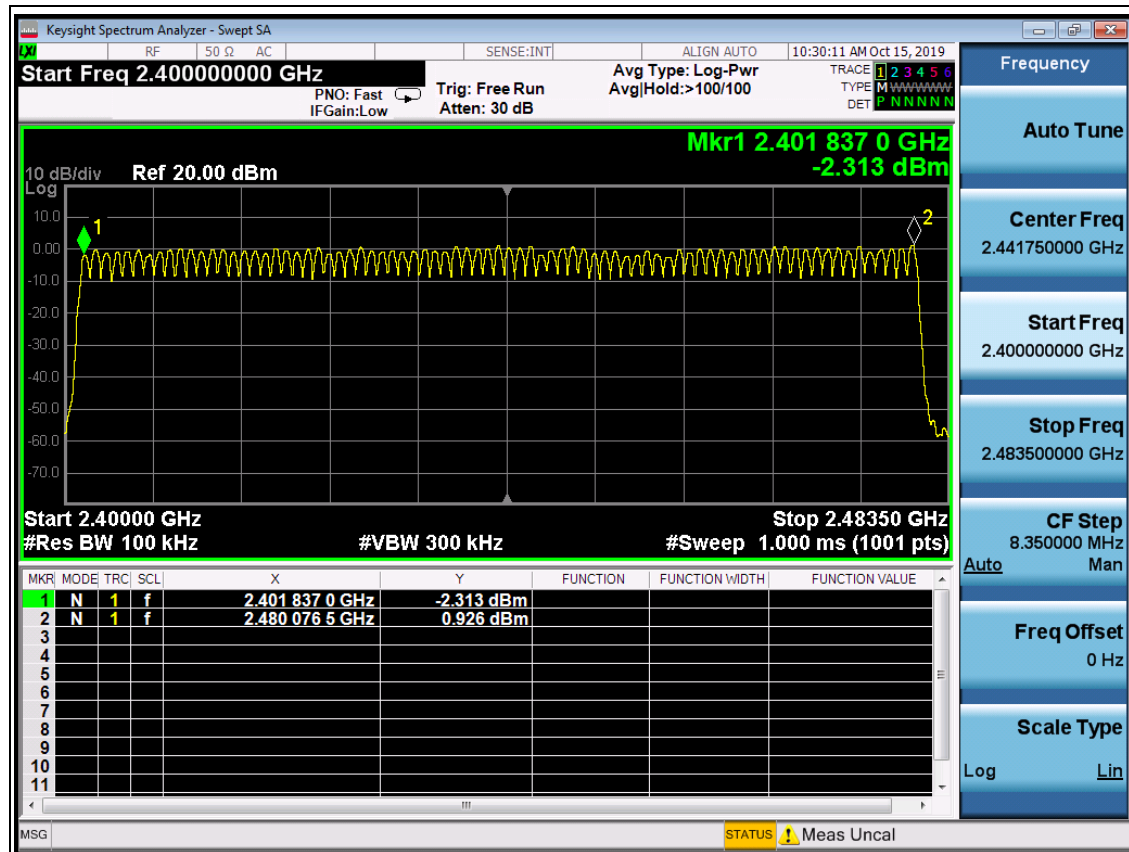
4.1.3 5.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.4 5.1.4 TEST RESULTS

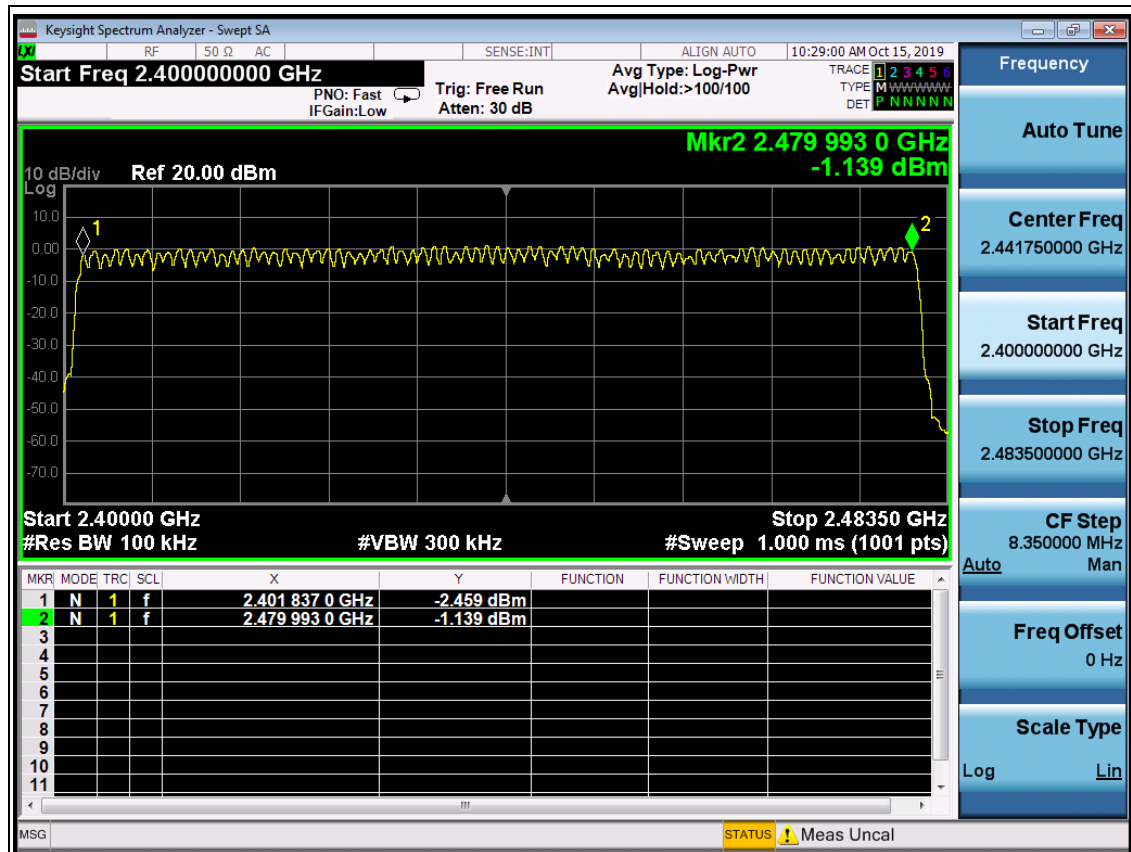
EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	Hopping Mode –1Mbps mode		

Number of Hopping Channel	79
---------------------------	----



EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	Hopping Mode –3Mbps mode		

Number of Hopping Channel	79
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6. 5AVERAGE TIME OF OCCUPANCY

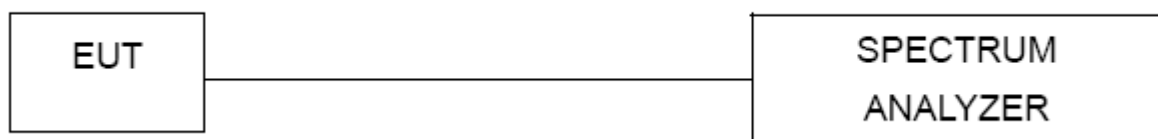
5.1 6.1 APPLIED PROCEDURES / LIMIT

LP0002				
Section	Test Item	Limit	Frequency Range (MHz)	Result
3.10.1(6.1.2)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

5.1.1 6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

5.1.2 6.1.2 TEST SETUP



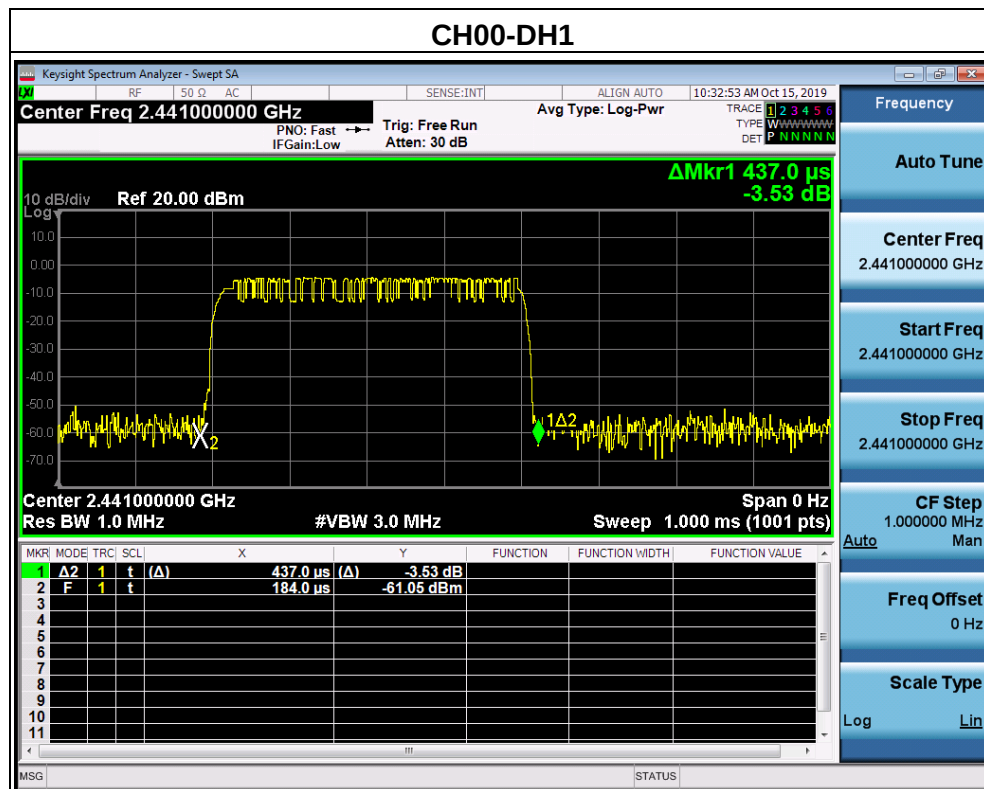
5.1.3 6.1.3 EUT OPERATION CONDITIONS

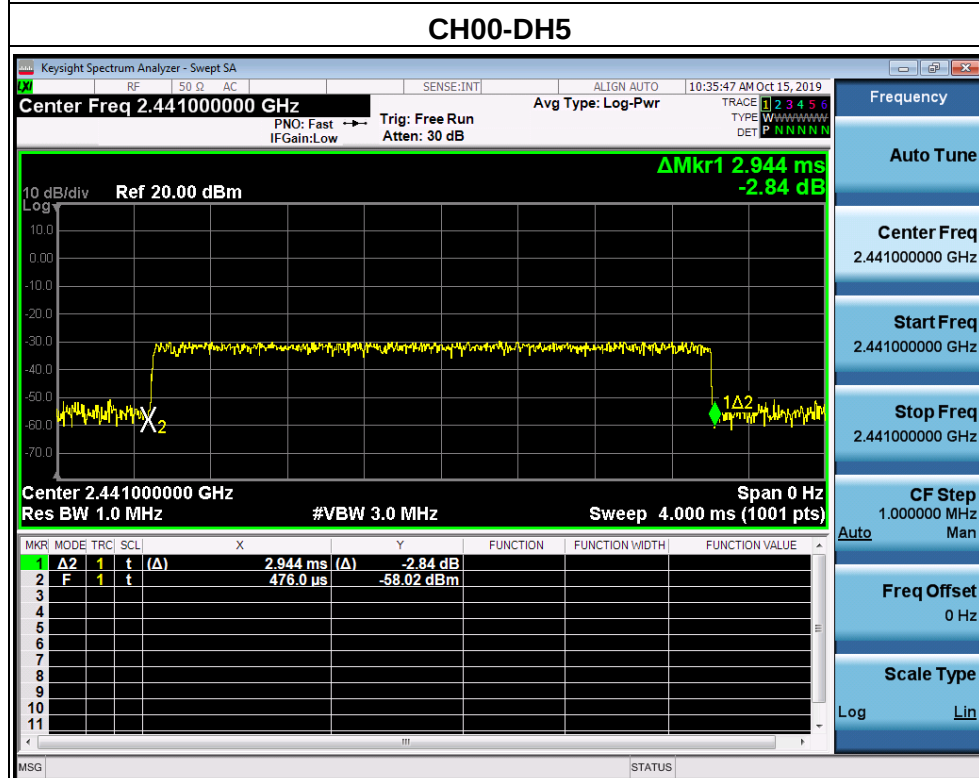
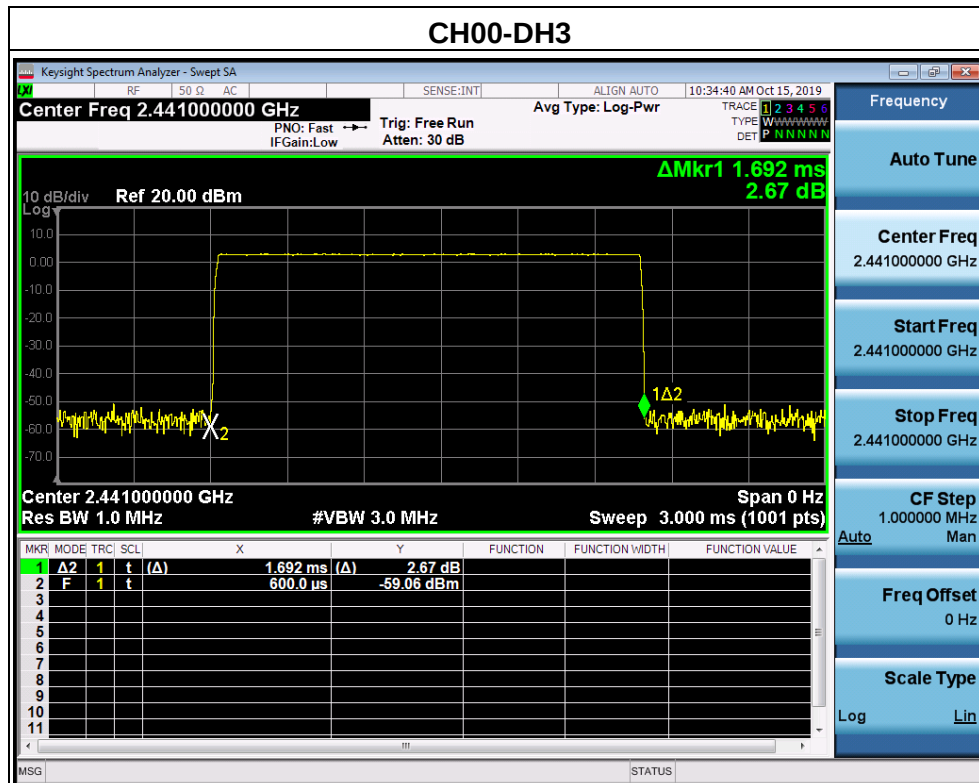
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.4 6.1.4 TEST RESULTS

EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 (1Mbps Mode)		

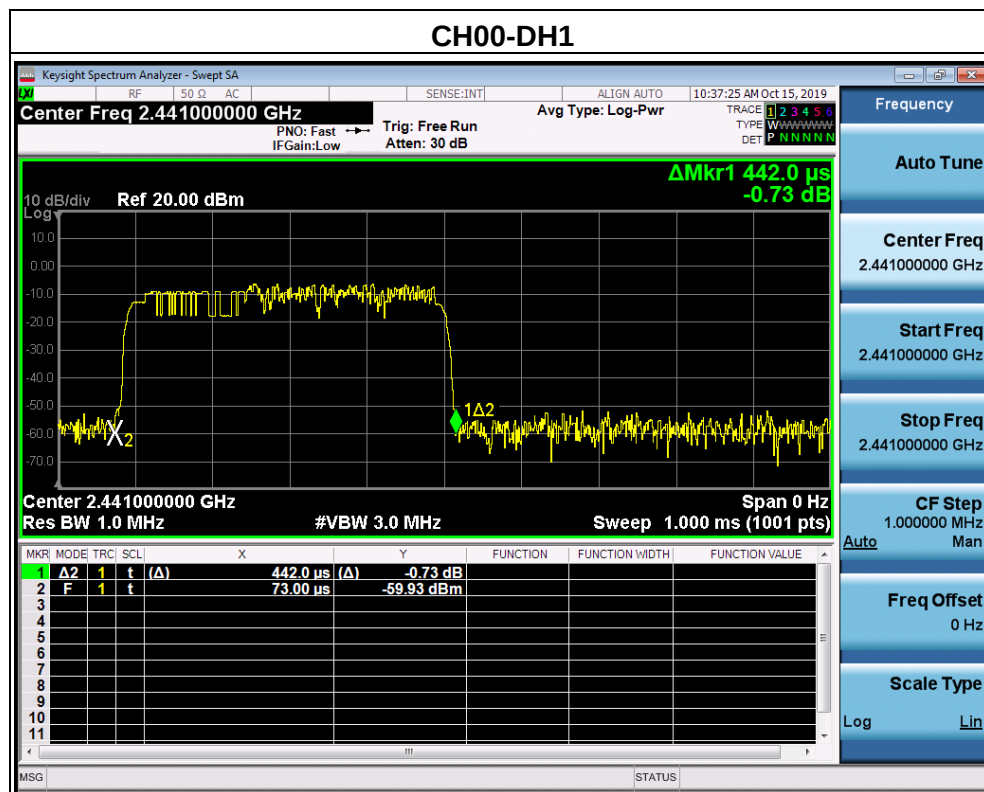
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.437	0.140	0.4000
DH3	2441 MHz	1.692	0.271	0.4000
DH5	2441 MHz	2.944	0.314	0.4000

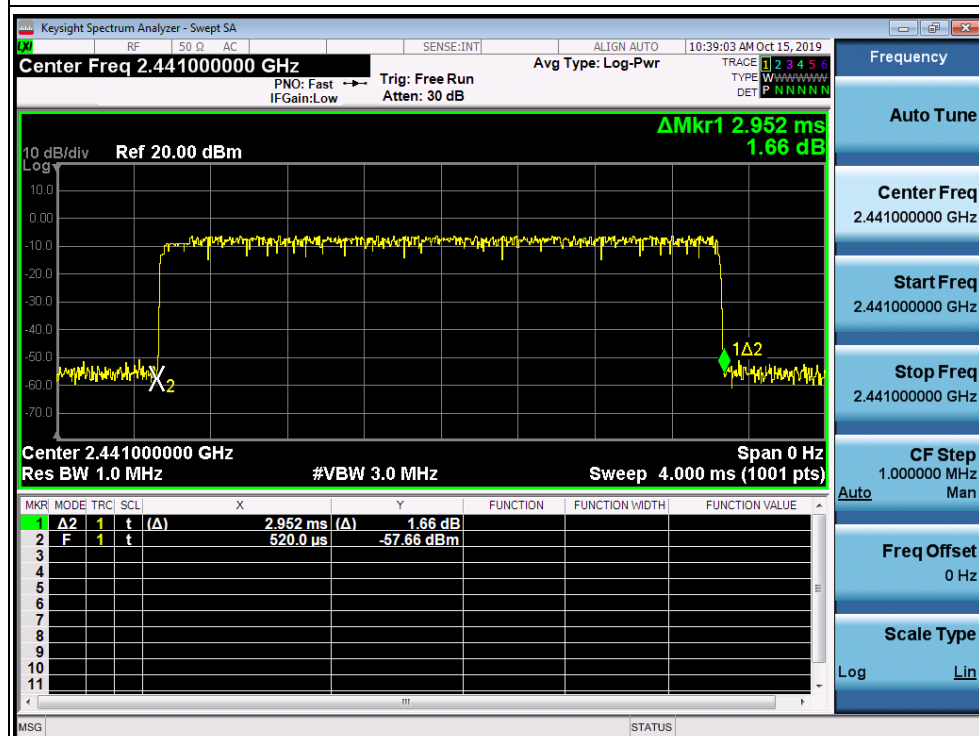




EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 (3Mbps Mode)		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402 MHz	0.442	0.141	0.4000
DH3	2402 MHz	1.698	0.272	0.4000
DH5	2402 MHz	2.952	0.315	0.4000





7. 6HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 7.1 APPLIED PROCEDURES / LIMIT

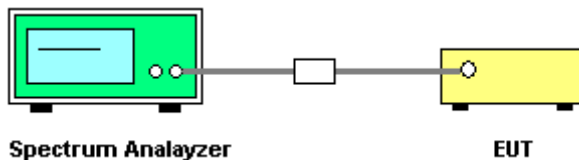
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 7.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

6.1.2 7.1.2 TEST SETUP



6.1.3 7.1.3 EUT OPERATION CONDITIONS

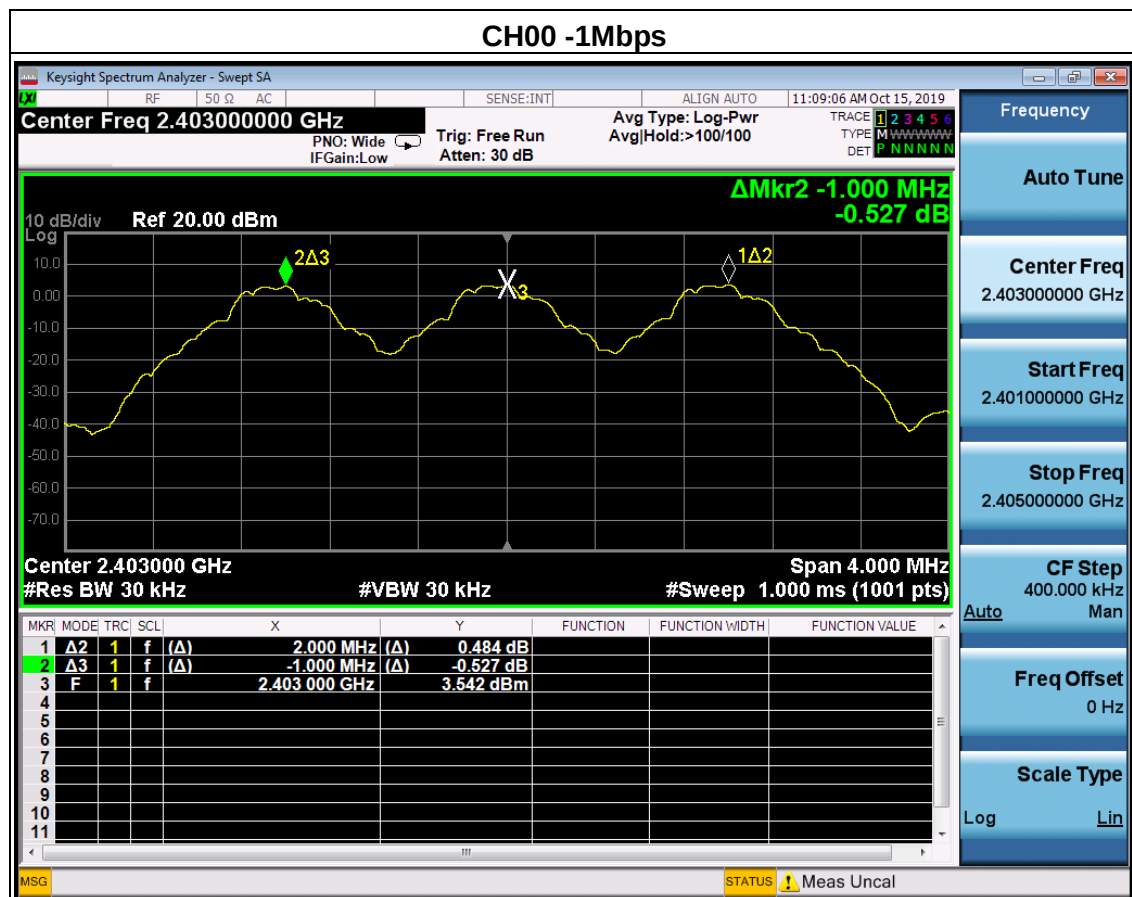
The EUT was programmed to be in continuously transmitting mode.

6.1.4 7.1.4 TEST RESULTS

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (KHz)	2/3 of the 20 dB Bandwidth (kHz)	Result
2402 MHz	1000	727.33	PASS
2441 MHz	1000	728.00	PASS
2480 MHz	1000	722.00	PASS

Ch. Separation >2/3(20dB bandwidth)

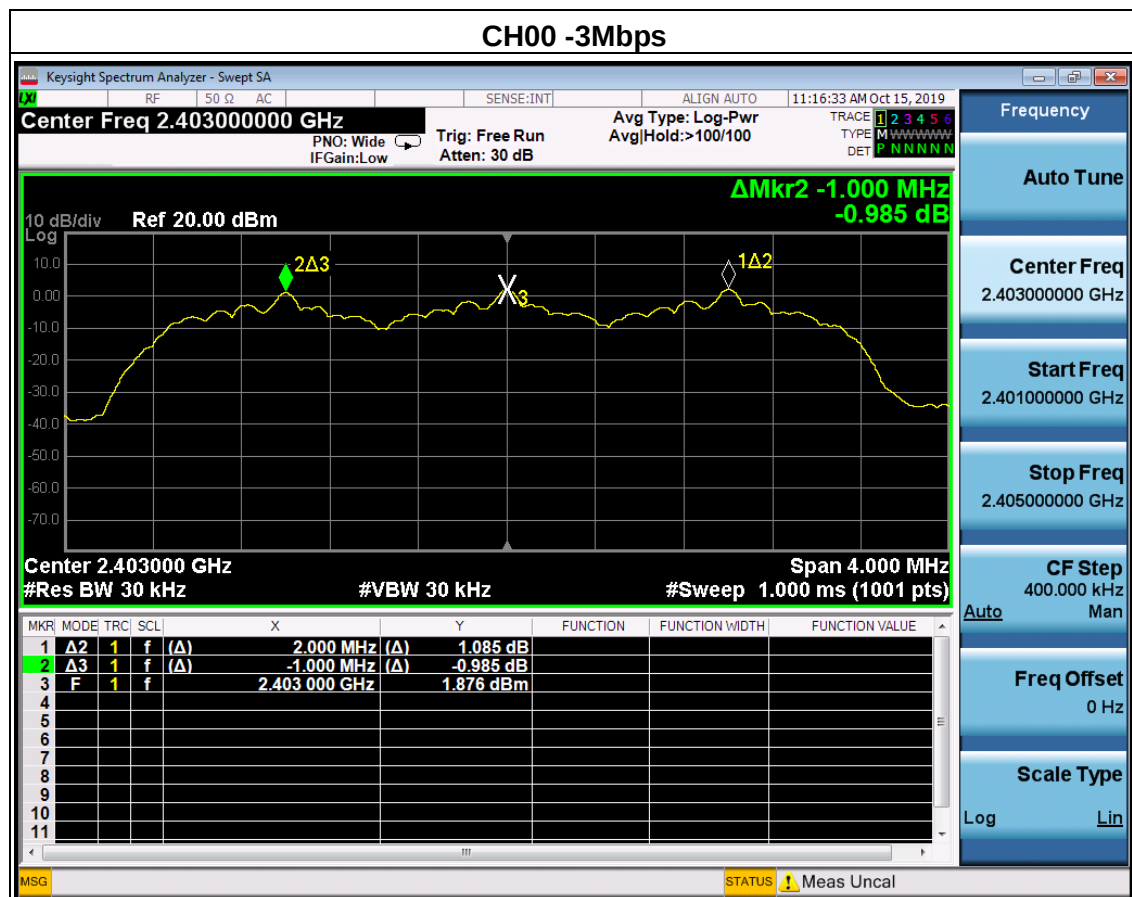


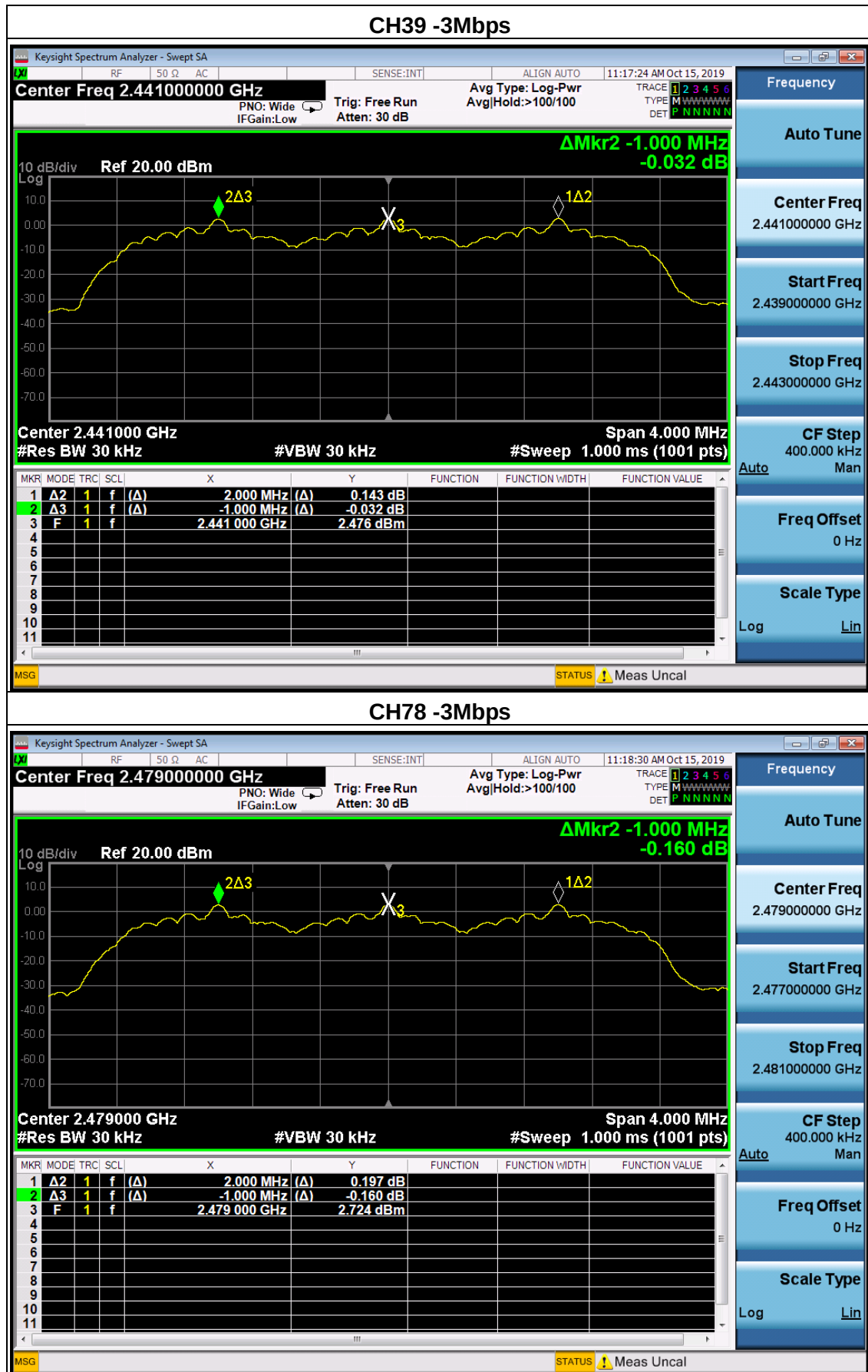


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (KHz)	2/3 of the 20 dB Bandwidth (kHz)	Result
2402 MHz	1000	896.67	PASS
2441 MHz	1000	893.33	PASS
2480 MHz	1000	894.67	PASS

Ch. Separation $> 2/3$ (20dB bandwidth)





8. 7PEAK OUTPUT POWER TEST

7.1 8.1 APPLIED PROCEDURES / LIMIT

LP0002				
Section	Test Item	Limit	Frequency Range (MHz)	Result
3.10.1(2)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

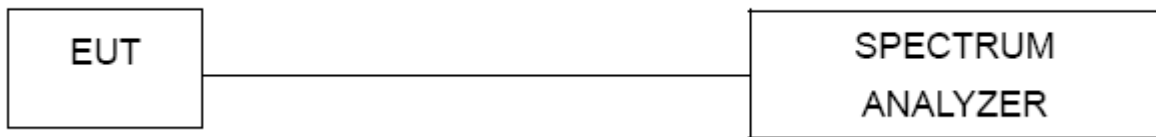
7.1.1 8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

7.1.2 8.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 8.1.3 TEST SETUP



7.1.4 8.1.4 EUT OPERATION CONDITIONS

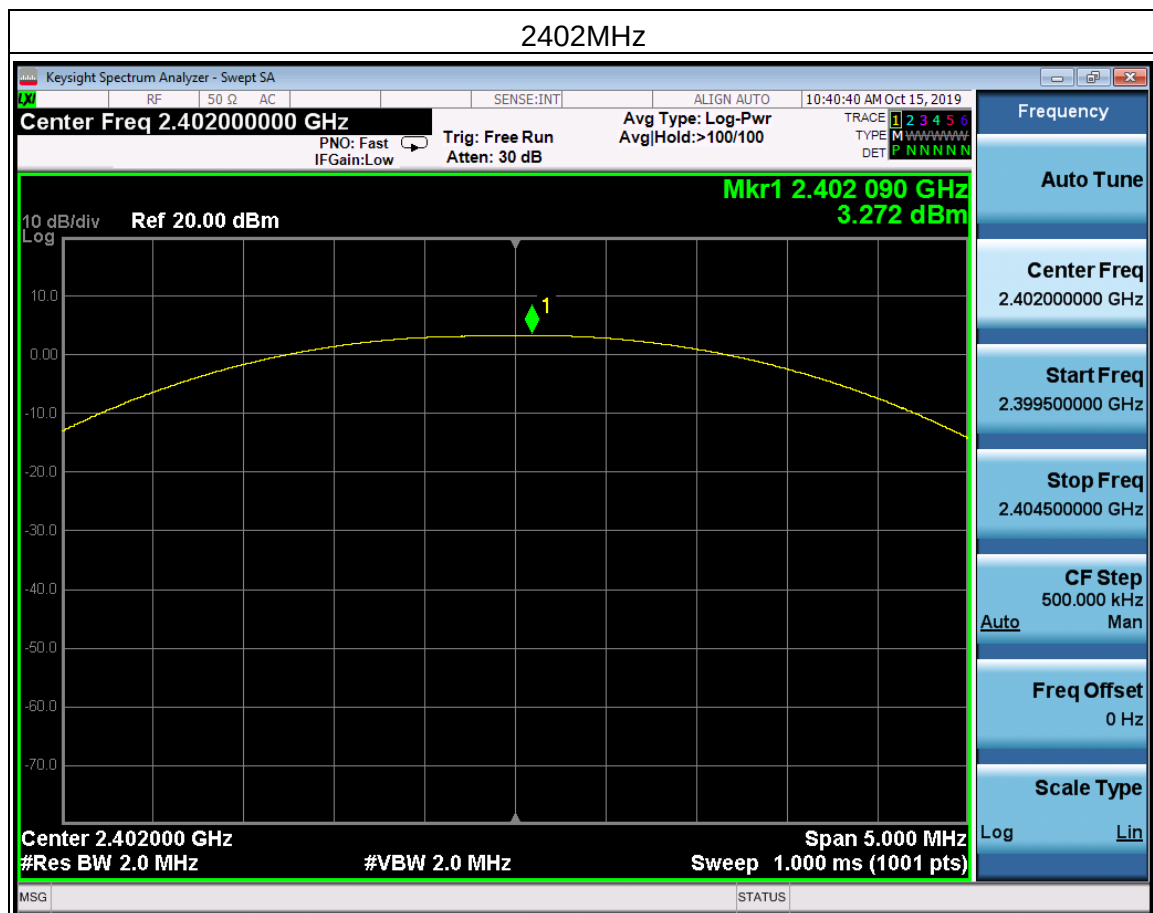
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

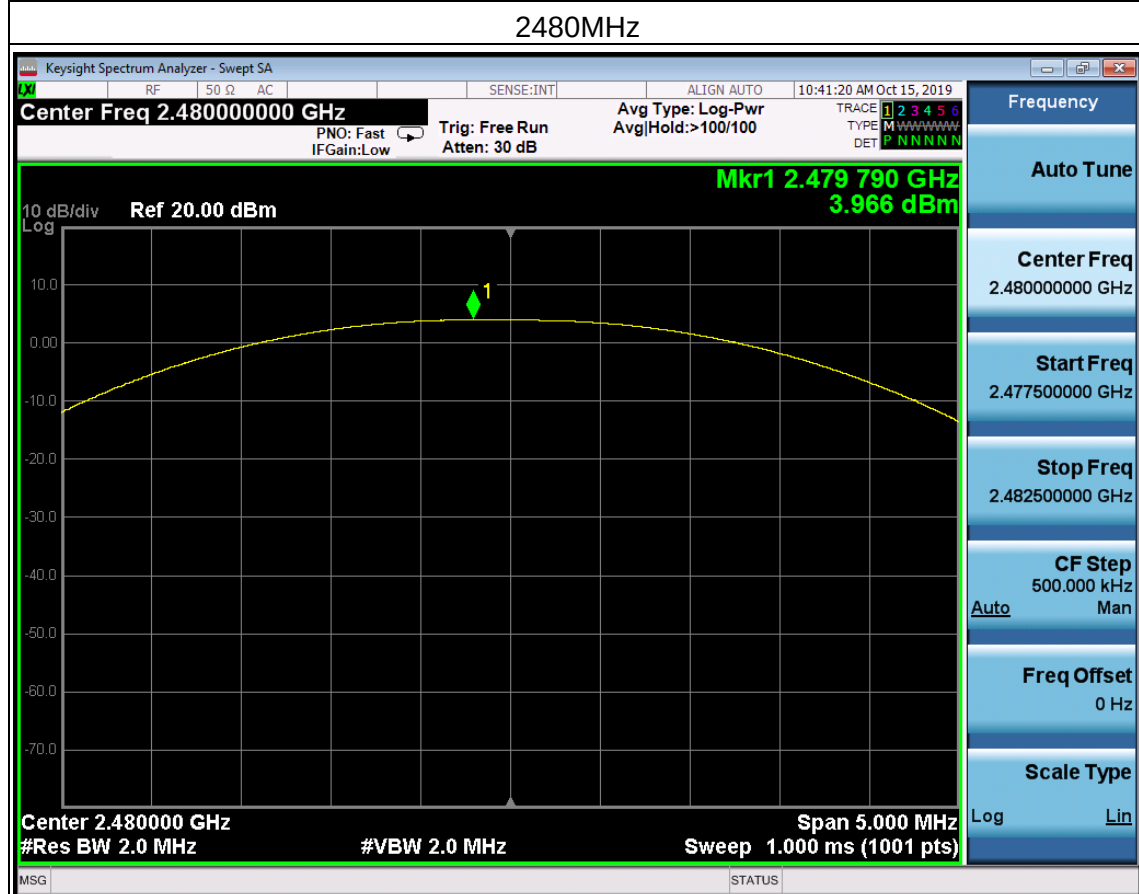
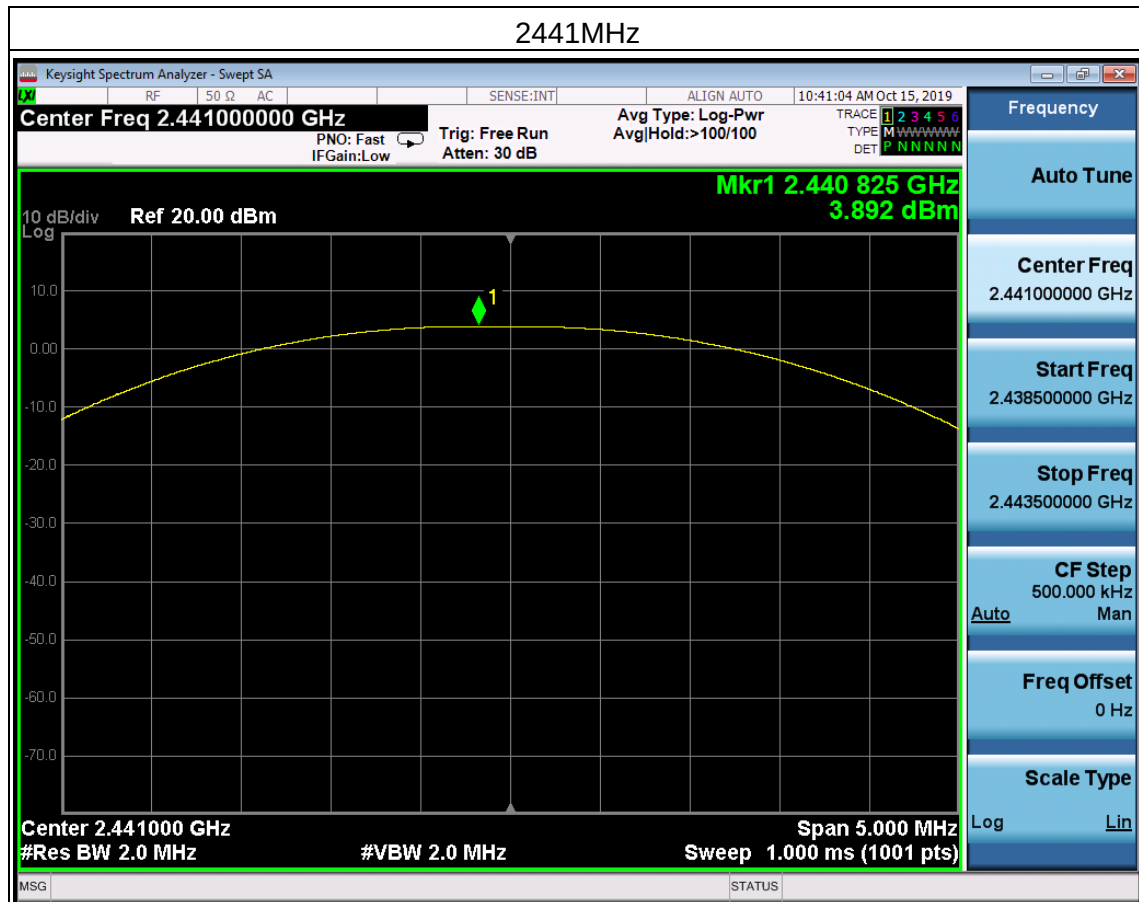
7.1.5 8.1.5 TEST RESULTS

EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00/ CH39 /CH78 (1Mbps Mode)		

Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
2402	3.272	21
2441	3.892	21
2480	3.966	21

Note: cable loss=1.0 dB

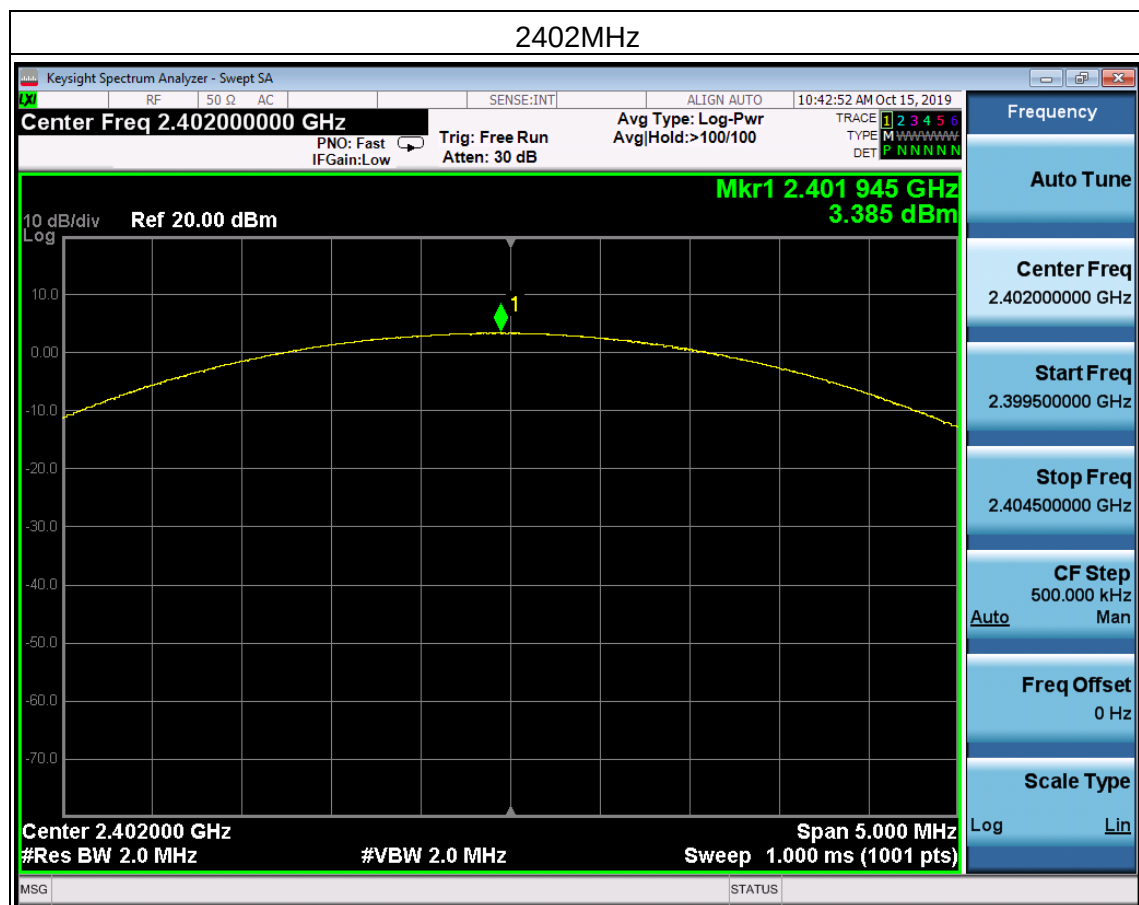


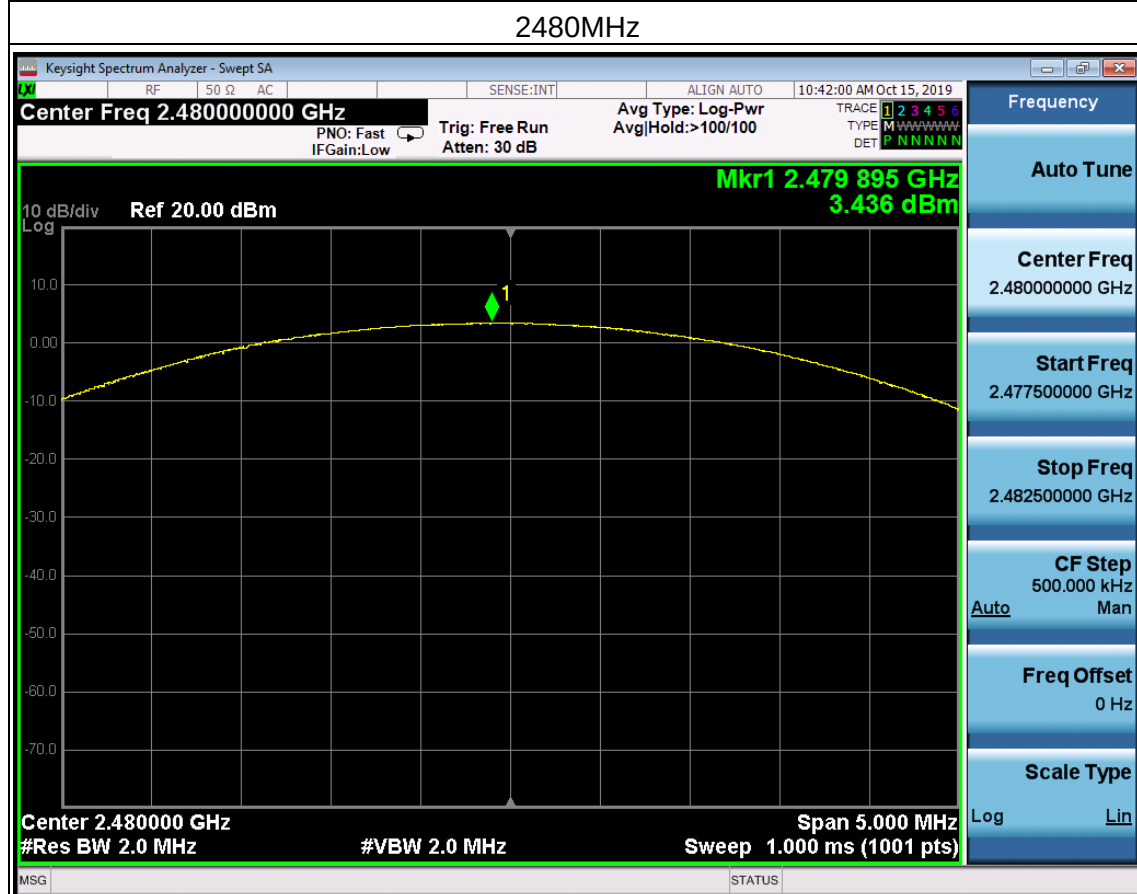
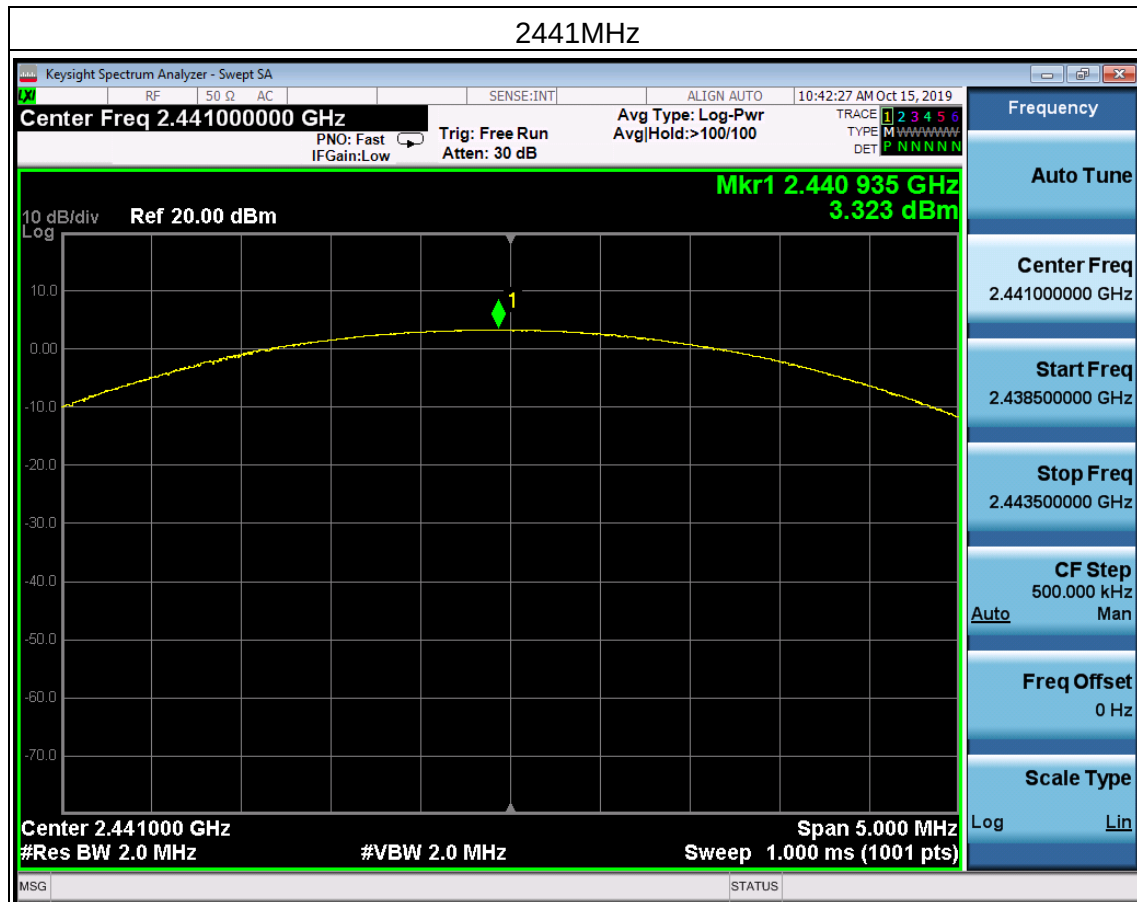


EUT :	Active Speaker	Model Name :	Boom Box Vinyl
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00/ CH39 /CH78 (3Mbps Mode)		

Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
2402	3.385	21
2441	3.323	21
2480	3.436	21

Note: cable loss=1.0 dB





9. 8ANTENNA CONDUCTED SPURIOUS EMISSION

8.1 9.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency 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 or shall not exceed the general levels specified in Section 2.8.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

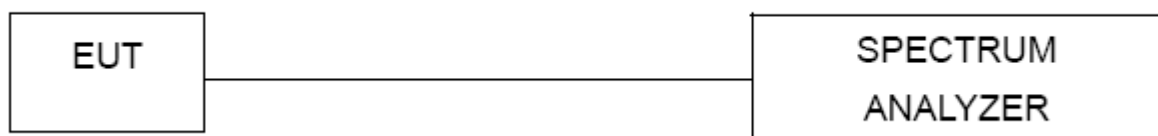
The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

8.1.1 9.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

8.1.2 9.1.2 TEST SETUP



8.1.3 9.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.4 9.1.4 TEST RESULTS

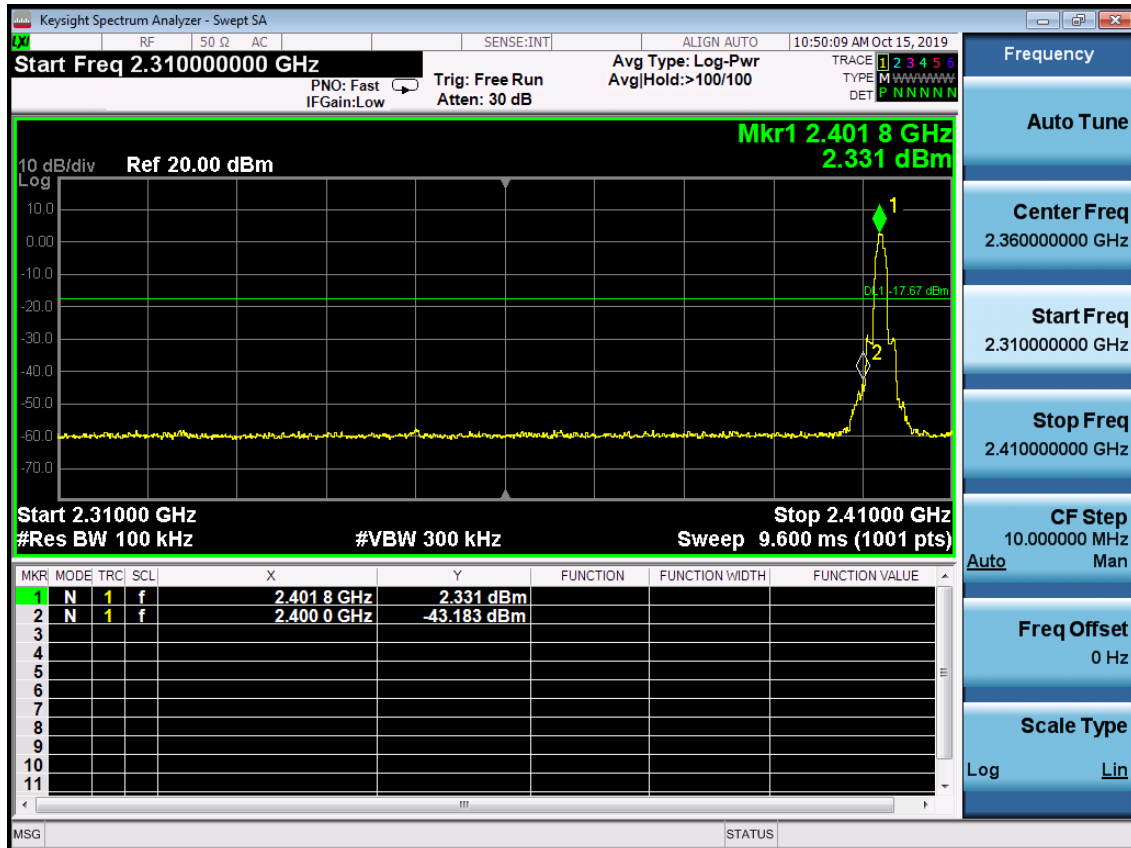
EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH78 (1Mbps)		

in any 100kHz bandwidth outside the low frequency band	in any 100 kHz bandwidth outside the high frequency band
Pass	Pass
Result	
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.	

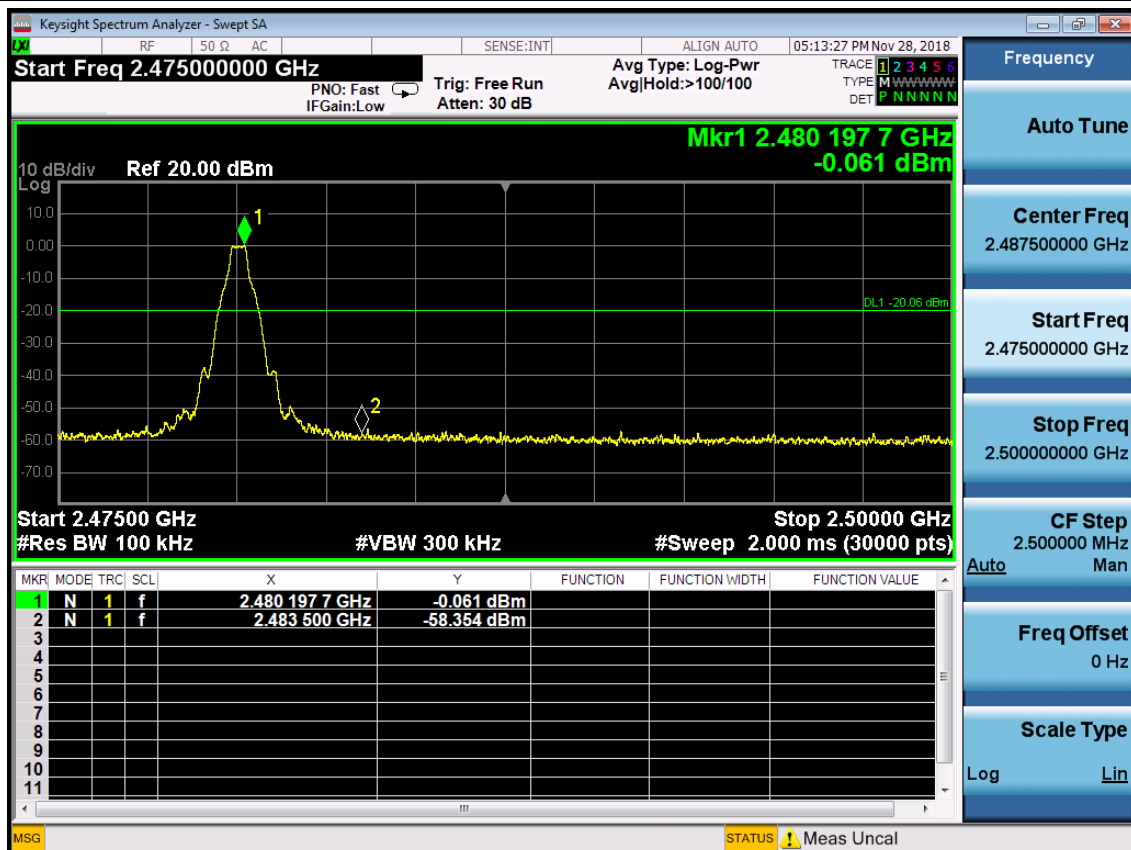
Remark :

- (1) Hopping enabled and disabled have evaluated, and the worst data was reported

CH00 (Lower) -1Mbps



CH 78 (Upper) -1Mbps

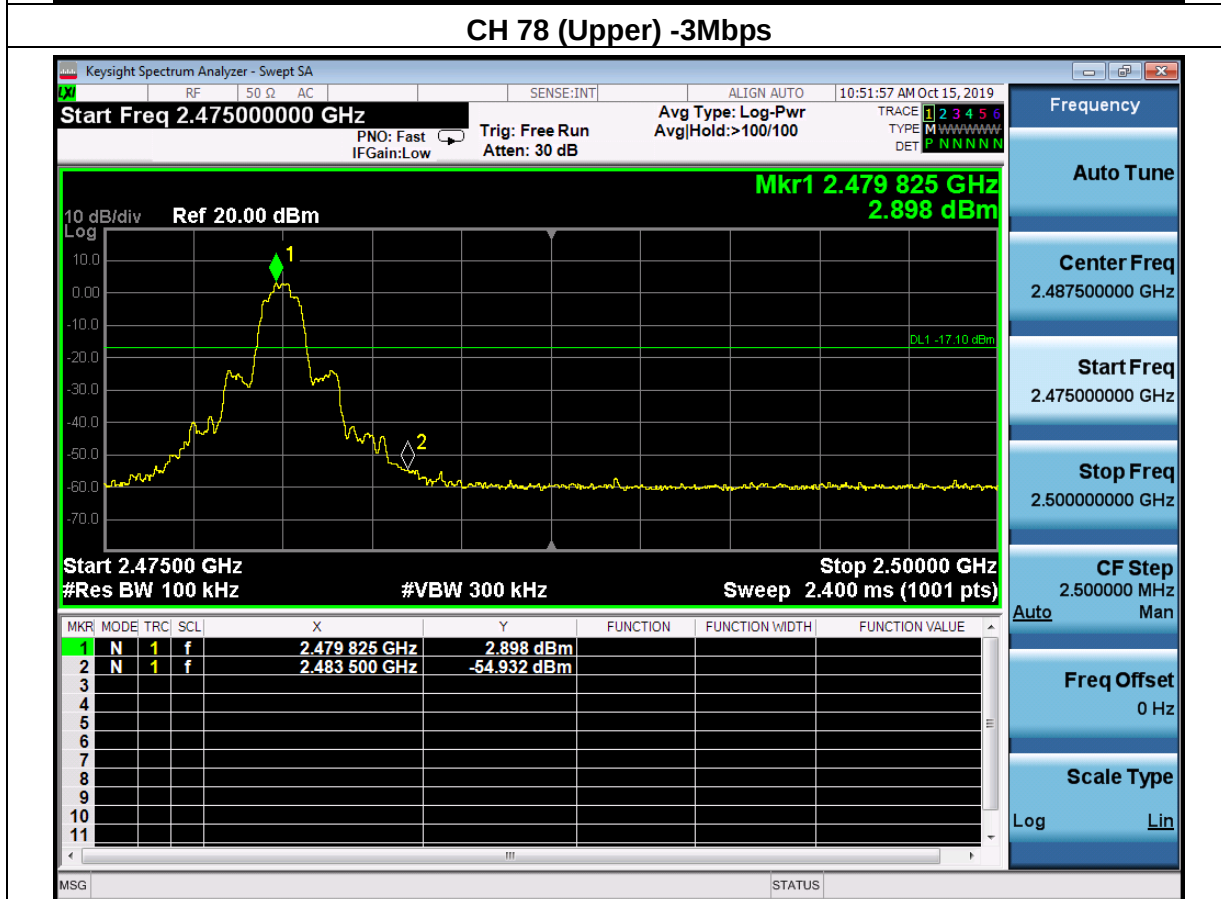
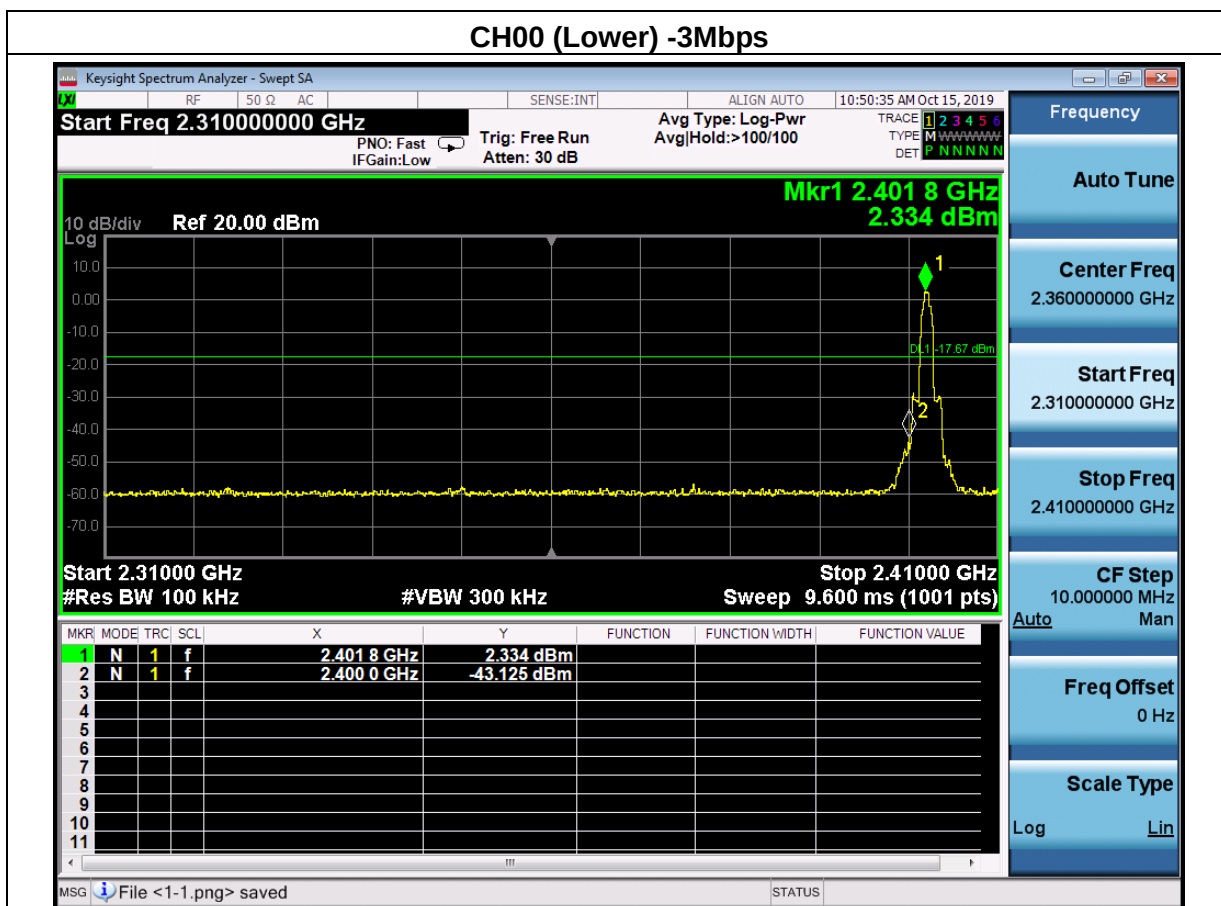


EUT :	Active Speaker	Model Name :	Boom Box Vinyle
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 110V/60Hz
Test Mode :	CH00 / CH78 (3Mbps)		

in any 100kHz bandwidth outside the low frequency band	in any 100 kHz bandwidth outside the high frequency band
Pass	Pass
Result	
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.	

Remark :

- (1) Hopping enabled and disabled have evaluated, and the worst data was reported



10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

3.10.3.1.1 requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

10.2 EUT ANTENNA

The antenna is a PCB antenna and no consideration of replacement. Antenna max gain is 0.11dBi from 2.4GHz to 2.5GHz.

11. EUT TEST PHOTO

**Radiated Measurement Photos
30MHz-1GHz**



**Radiated Measurement Photos
1GHz -18GHz**



Conducted Measurement Photos