

MEASUREMENT REPORT

FCC Part 15 Subpart B / ICES-003

FCC ID: O57-PS1551B

Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.

Product: Lenovo Smart Wireless Earbuds

Model No.: Lenovo PS-1551B

Brand name: Lenovo

FCC Rule Part(s): FCC Part 15 Subpart B: 2021

ISED Rule(s): ICES-003 Issue 7 (October 15, 2020)

Test Procedure(s): ANSI C63.4-2014

Result: Complies

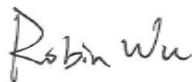
Test Date: June 03 ~ July 10, 2021

Reviewed By:



Vincent Yu

Approved By:



Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2105RSU058-U4	Rev. 01	Initial Report	07-16-2021	Valid

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1. GENERAL INFORMATION

1.1. Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No.4, #222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone,
Shanghai 200131, China

1.2. Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory	
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China	
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China	
	Laboratory Accreditations	
	A2LA: 3628.01 FCC: CN1166 VCCI: R-20025, G-20034, C-20020, T-20020	CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory	
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
	Laboratory Accreditations	
	A2LA: 3628.02 FCC: CN1284	CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory	
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
	Laboratory Accreditations	
	TAF: L3261-190725 FCC: 291082, TW3261	ISED: TW3261

2. PRODUCT INFORMATION

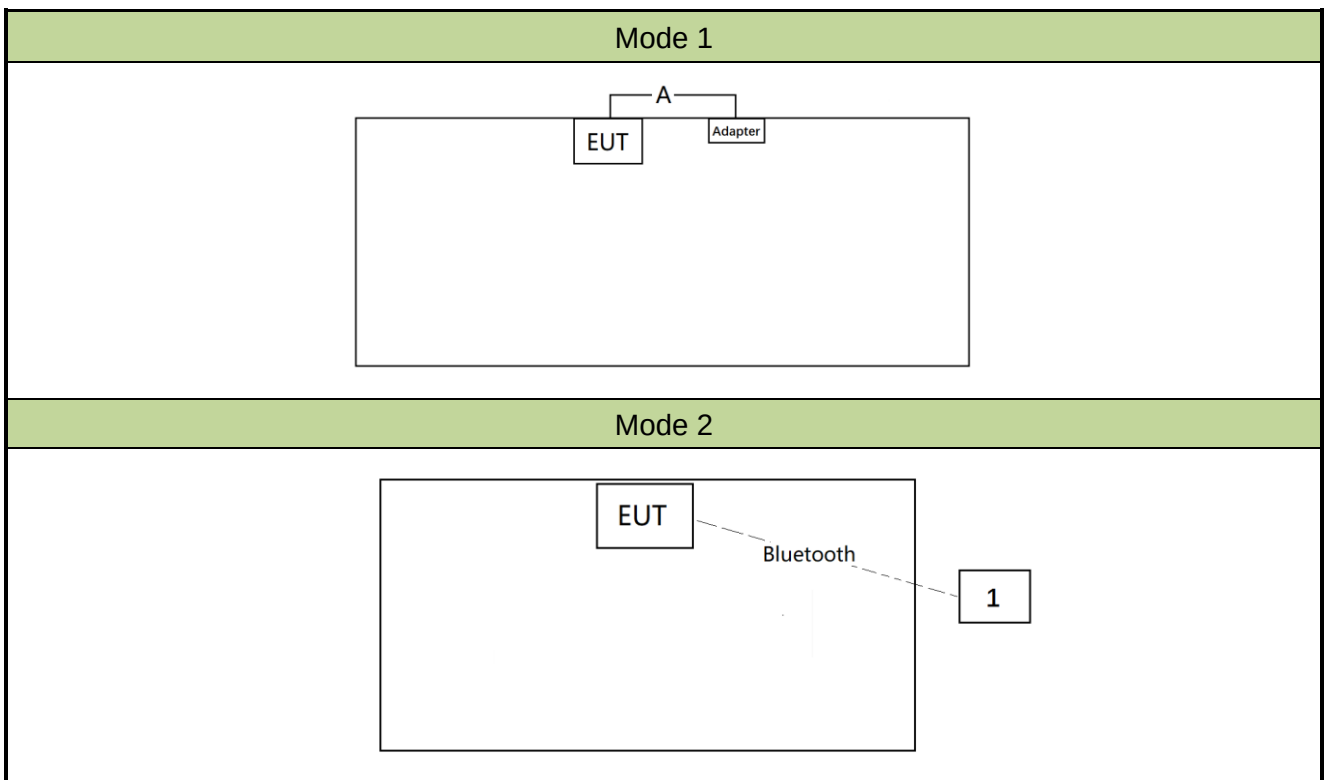
2.1. Equipment Description

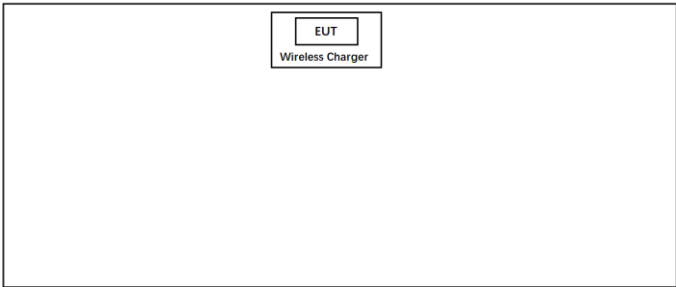
Product	Lenovo Smart Wireless Earbuds
Model No.	Lenovo PS-1551B
Test Sample ID	20210520Sample#14 20210520Sample#15
Brand name	Lenovo
Bluetooth Version	V5.2 Dual Mode
Operating Temp.	0 ~ 40°C

2.2. Test Mode

Test Mode
Mode 1: Charging by USB Adapter
Mode 2: Bluetooth Link + Play music
Mode 3: Wireless Charging

2.3. Configuration of Tested System



Mode 3	
	
Cable Type	Cable Description
A Power Cable	Shielding, 0.3m

Note: The adapter and wireless charger were provided by MRT.

2.4. Test System Details

Product	Manufacturer	Model No.
1 iPhone XR	APPLE	MH863CH/A

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

3. TEST EQUIPMENT CALIBRATION DATE

Conducted Emission (WZ-SR2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2021/11/22
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2021/09/09
Thermal Hygrometer	testo	608-H1	MRTSUE06404	1 year	2021/07/26
Shielding Room	MIX-BEP	Chamber-SR2	MRTSUE06215	N/A	N/A

Conducted Emission (SIP-SR2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2021/07/02
				1 year	2022/06/24
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2021/09/09
Thermal Hygrometer	testo	608-H1	MRTSUE06621	1 year	2021/12/03

Radiated Emission (WZ-AC1)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/01/04
PXA Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2021/08/30
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2021/11/08
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2021/08/08
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2021/09/27
Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06597	1 year	2021/12/14
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2021/11/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/06/11
				1 year	2022/06/10
Thermal Hygrometer	testo	608-H1	MRTSUE06403	1 year	2021/07/26
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2022/04/29

Radiated Emission (WZ-AC2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Keysight	N9038A	MRTSUE06125	1 year	2021/07/02
				1 year	2022/06/24
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2022/05/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2021/10/25
Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06597	1 year	2021/12/14
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2021/11/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/06/11
				1 year	2022/06/10
Thermal Hygrometer	Minggao	ETH529	MRTSUE06170	1 year	2021/12/08
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2022/04/29

Radiated Emission (SIP-AC1)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2021/07/02
				1 year	2022/06/24
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2021/09/26
Bilog Period Antenna	Schwarzbeck	VULB9168	MRTSUE06645	1 year	2021/08/30
Double Ridged Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2021/08/30
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2021/11/09
Thermal Hygrometer	testo	608-H1	MRTSUE06620	1 year	2021/12/03
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2021/12/24

Radiated Emission (SIP-AC2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2021/07/02
				1 year	2022/06/24
MXA Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2021/09/26
Bilog Period Antenna	Schwarzbeck	VULB9168	MRTSUE06647	1 year	2021/08/08
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06648	1 year	2021/11/26
Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06599	1 year	2021/11/26
Preamplifier	EMCI	EMC051845SE	MRTSUE06644	1 year	2021/11/09
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2021/10/12
Thermal Hygrometer	testo	608-H1	MRTSUE06624	1 year	2021/12/03
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2021/12/24

Radiated Emission (SIP-AC3)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/07/02
				1 year	2022/06/10
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2021/07/23
Bilog Period Antenna	Schwarzbeck	VULB9168	MRTSUE06646	1 year	2021/08/30
Double Ridged Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2021/09/13
Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06598	1 year	2021/11/26
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2022/01/14
Preamplifier	EMCI	EMC184045SE	MRTSUE06641	1 year	2022/01/14
Thermal Hygrometer	testo	608-H1	MRTSUE06622	1 year	2021/12/03
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2021/12/24

Software	Version	Function
EMI Software	V3	EMI Test Software

4. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emission Measurement

The maximum measurement uncertainty is evaluated as:

9kHz~150kHz: 3.74dB

150kHz~30MHz: 3.44dB

Radiated Emission Measurement

The maximum measurement uncertainty is evaluated as:

Horizontal:

30MHz~300MHz: 5.04dB

300MHz~1GHz: 4.95dB

1GHz~40GHz: 6.40dB

Vertical:

30MHz~300MHz: 5.24dB

300MHz~1GHz: 6.03dB

1GHz~40GHz: 6.40dB

5. TEST RESULT

5.1. Summary

FCC Part Section(s)	ISED Section(s)	Test Description	Test Result
15.107	3.2.1	Conducted Emissions	Pass
15.109	3.2.2	Radiated Emissions	Pass

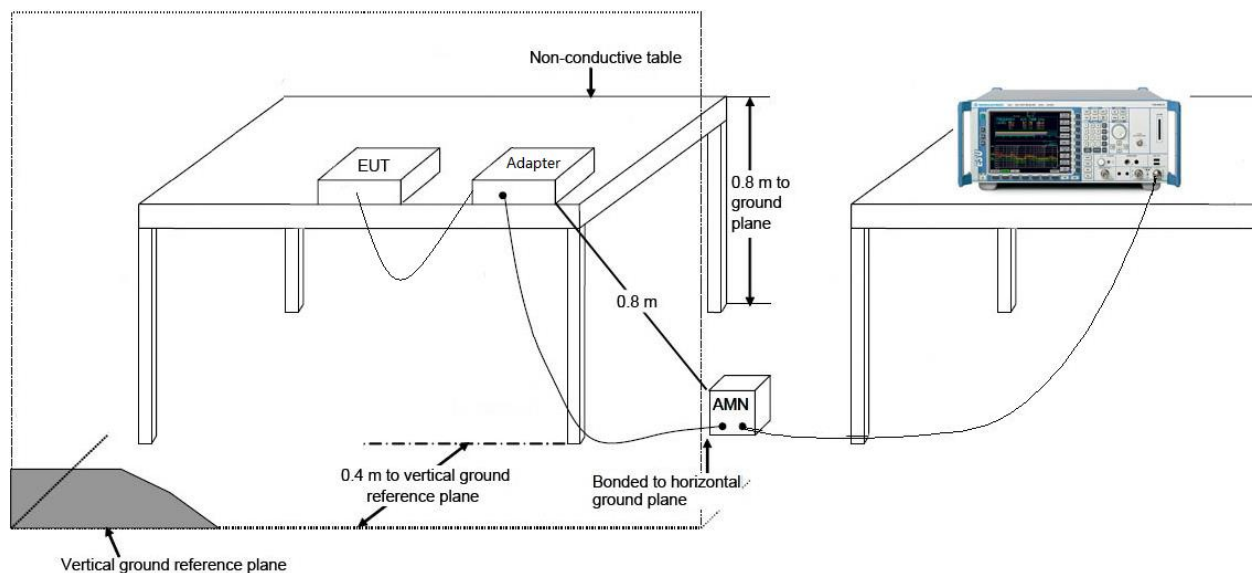
Note: There are two suppliers for the PCB of this device. The two PCBs are the same except for the different material model names. For this difference, we additionally evaluated Radiated Emission, and only show the worst test results in this report.

5.2. Conducted Emission Measurement

5.2.1. Test Limit

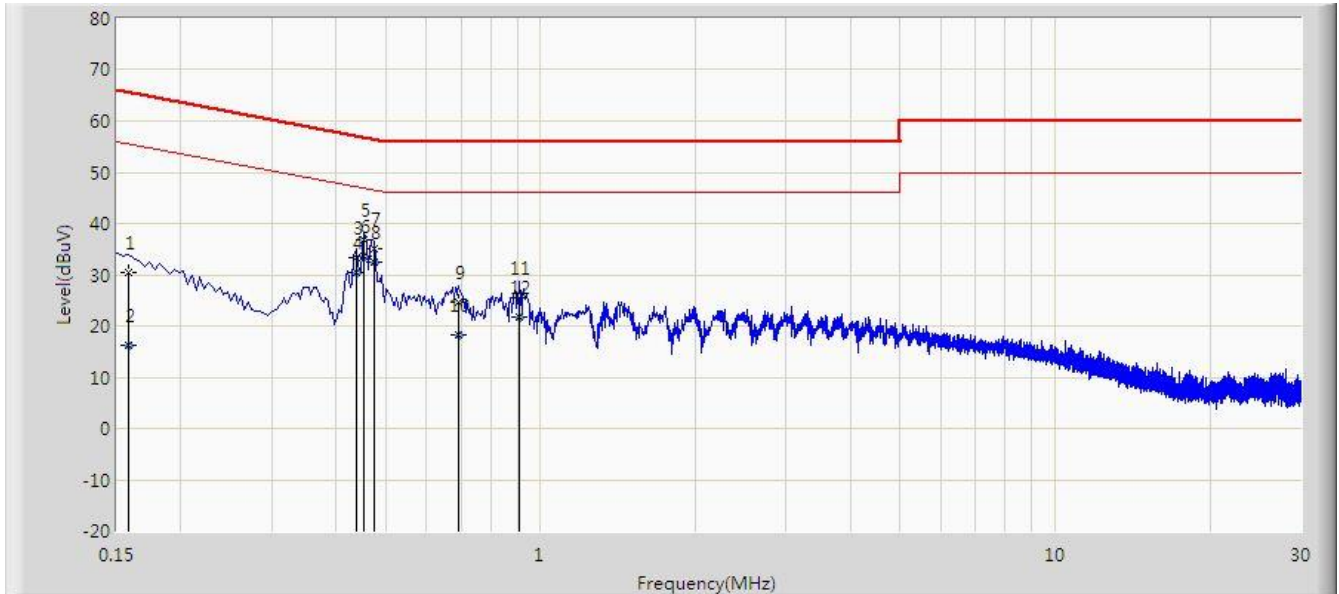
FCC Part 15.107 / ICES-003 Conducted Emission Limits				
Frequency Range (MHz)	Class A Limits		Class B Limits	
	QP dB(μV)	AV dB(μV)	QP dB(μV)	AV dB(μV)
0.15 ~ 0.5	79	66	66 to 56	56 to 46
0.5 ~ 5	73	60	56	46
5 ~ 30	73	60	60	50

5.2.2. Test Setup



5.2.3.Test Result

Site: SIP-SR2	Test Date: 2021/06/03
Limit: FCC_Part15.107_CE_AC Power_ Class B	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Line
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 1	

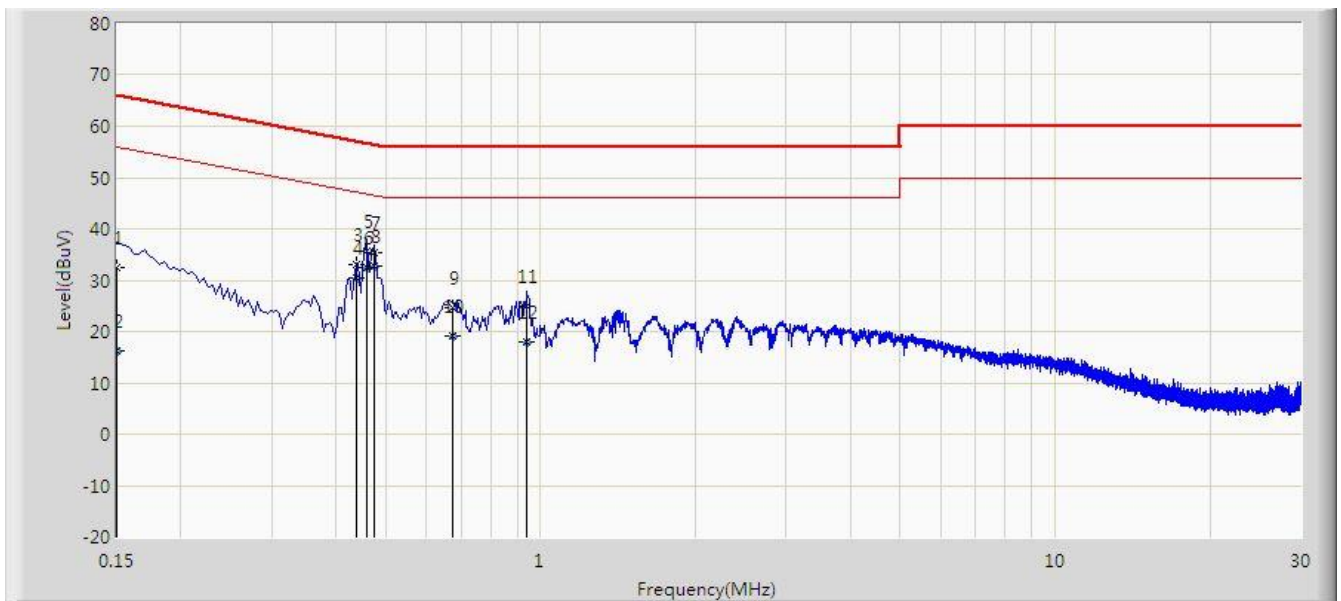


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.158	30.549	21.097	-35.019	65.568	9.452	QP
2			0.158	16.265	6.813	-39.303	55.568	9.452	AV
3			0.438	33.352	23.797	-23.747	57.100	9.556	QP
4			0.438	30.301	20.745	-16.799	47.100	9.556	AV
5			0.454	36.886	27.329	-19.916	56.802	9.557	QP
6		*	0.454	33.766	24.209	-13.036	46.802	9.557	AV
7			0.474	35.191	25.633	-21.253	56.444	9.558	QP
8			0.474	32.547	22.989	-13.897	46.444	9.558	AV
9			0.694	24.556	14.996	-31.444	56.000	9.560	QP
10			0.694	18.188	8.628	-27.812	46.000	9.560	AV
11			0.910	25.408	15.858	-30.592	56.000	9.550	QP
12			0.910	21.704	12.154	-24.296	46.000	9.550	AV

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

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

Site: SIP-SR2	Test Date: 2021/06/03
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Neutral
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.150	32.322	22.890	-33.678	66.000	9.431	QP
2			0.150	16.127	6.696	-39.873	56.000	9.431	AV
3			0.438	33.073	23.538	-24.026	57.100	9.536	QP
4			0.438	30.478	20.943	-16.621	47.100	9.536	AV
5			0.458	35.754	26.217	-20.974	56.729	9.537	QP
6			0.458	32.426	22.889	-14.303	46.729	9.537	AV
7			0.474	35.299	25.761	-21.145	56.444	9.538	QP
8		*	0.474	32.681	23.143	-13.763	46.444	9.538	AV
9			0.674	24.604	15.064	-31.396	56.000	9.540	QP
10			0.674	19.067	9.527	-26.933	46.000	9.540	AV
11			0.942	24.940	15.410	-31.060	56.000	9.530	QP
12			0.942	18.032	8.502	-27.968	46.000	9.530	AV

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

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

5.3. Radiated Emission Measurement

5.3.1. Test Limit

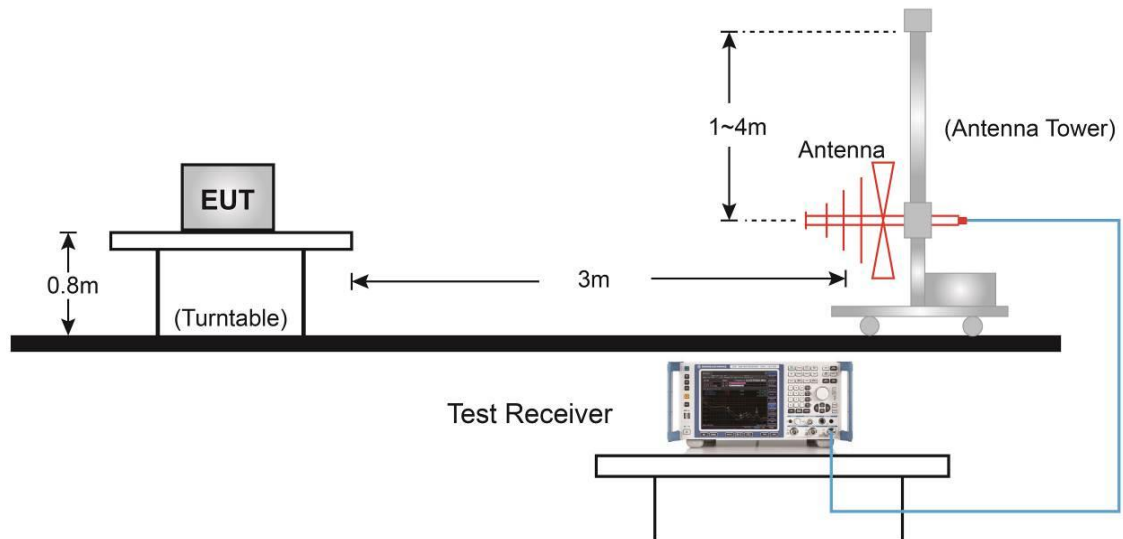
FCC Part 15.109 Radiated Emission Limits			
Frequency (MHz)	Distance (m)	Level (dBμV/m)	
		Class A	Class B
30 - 88	3	49.5	40.0
88 - 216	3	54.0	43.5
216 - 960	3	56.9	46.0
Above 960	3	60.0	54.0

ICES-003 Issue 7 Radiated Emission Limits			
Frequency (MHz)	Distance (m)	Level (dBμV/m)	
		Class A	Class B
30 - 88	3	50.0	40.0
88 - 216	3	54.0	43.5
216 - 230	3	56.9	46.0
230 - 960	3	57.0	47.0
Above 960	3	60.0	54.0

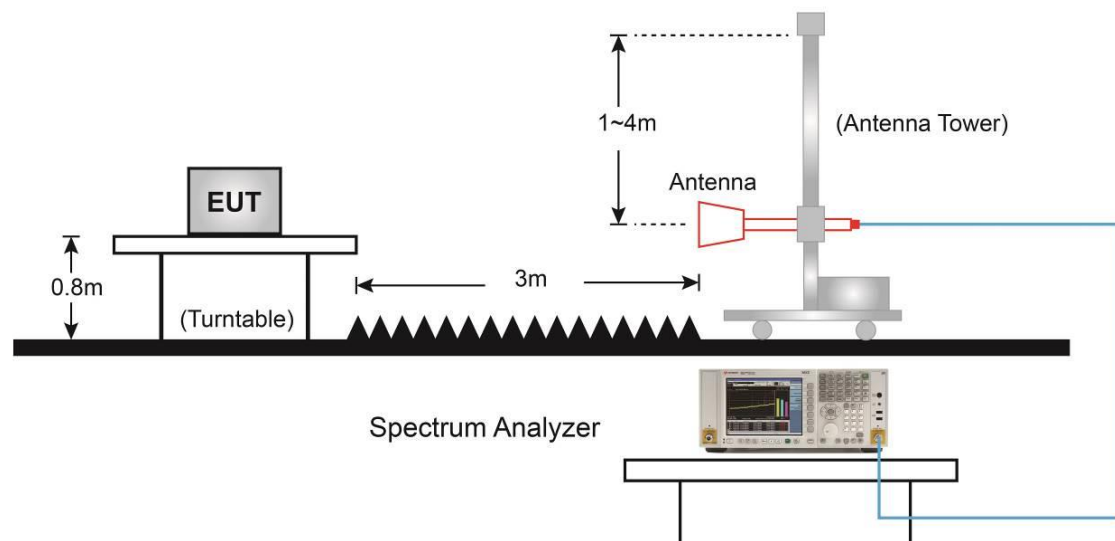
Note: The limit of FCC Part 15.109 is more stringent than the limit of ICES-003 Issue 7, so only the FCC limit is shown in the test data.

5.3.2. Test Setup

Below 1GHz Test Setup:

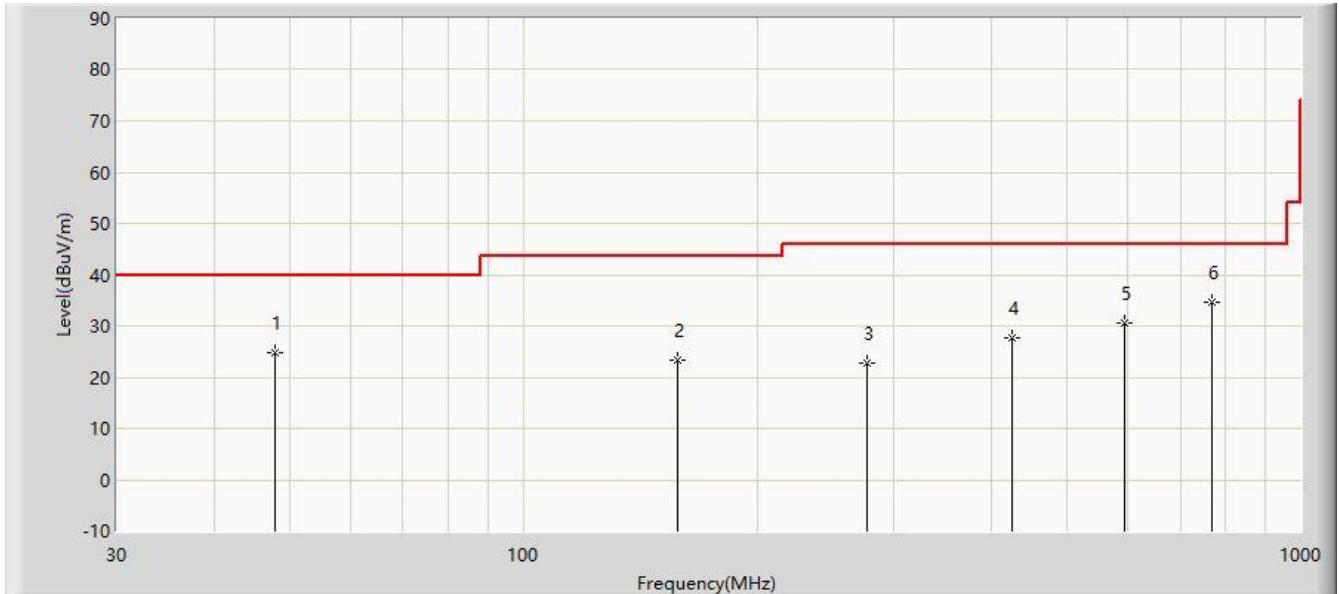


Above 1GHz Test Setup:



5.3.3.Test Result

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 1	



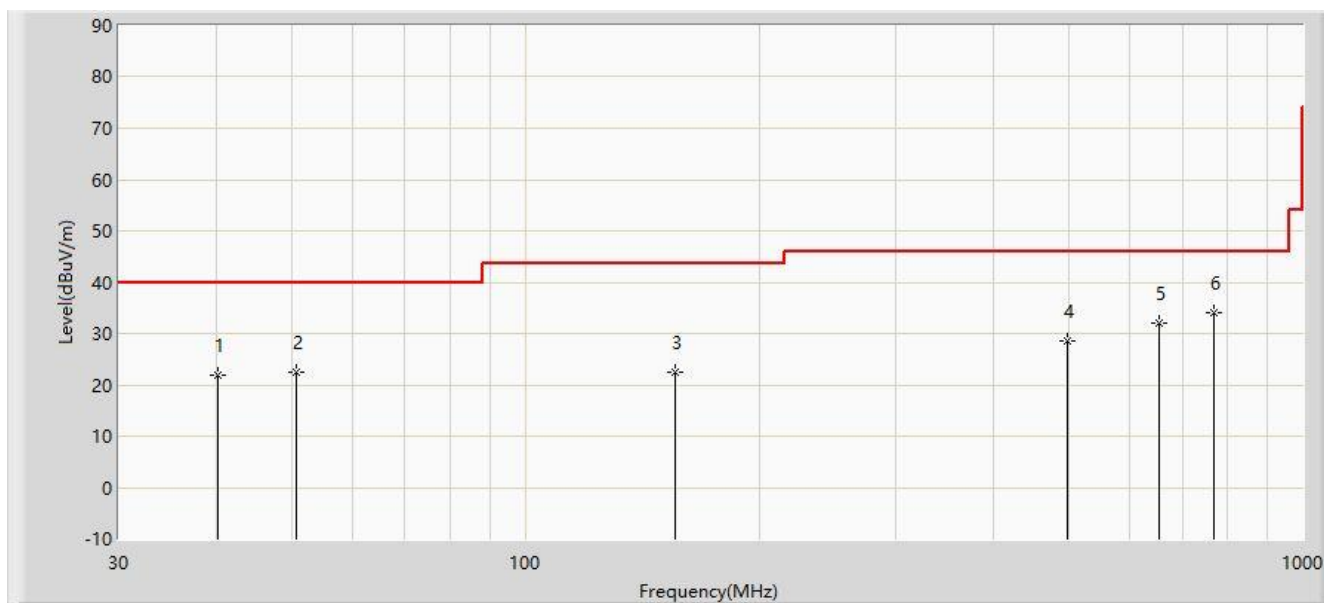
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			47.945	24.880	6.145	-15.120	40.000	18.735	PK
2			158.040	23.240	4.540	-20.260	43.500	18.700	PK
3			276.865	22.740	4.446	-23.260	46.000	18.294	PK
4			425.760	27.790	5.645	-18.210	46.000	22.145	PK
5			593.570	30.676	4.798	-15.324	46.000	25.878	PK
6		*	770.110	34.623	5.702	-11.377	46.000	28.921	PK

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 1	



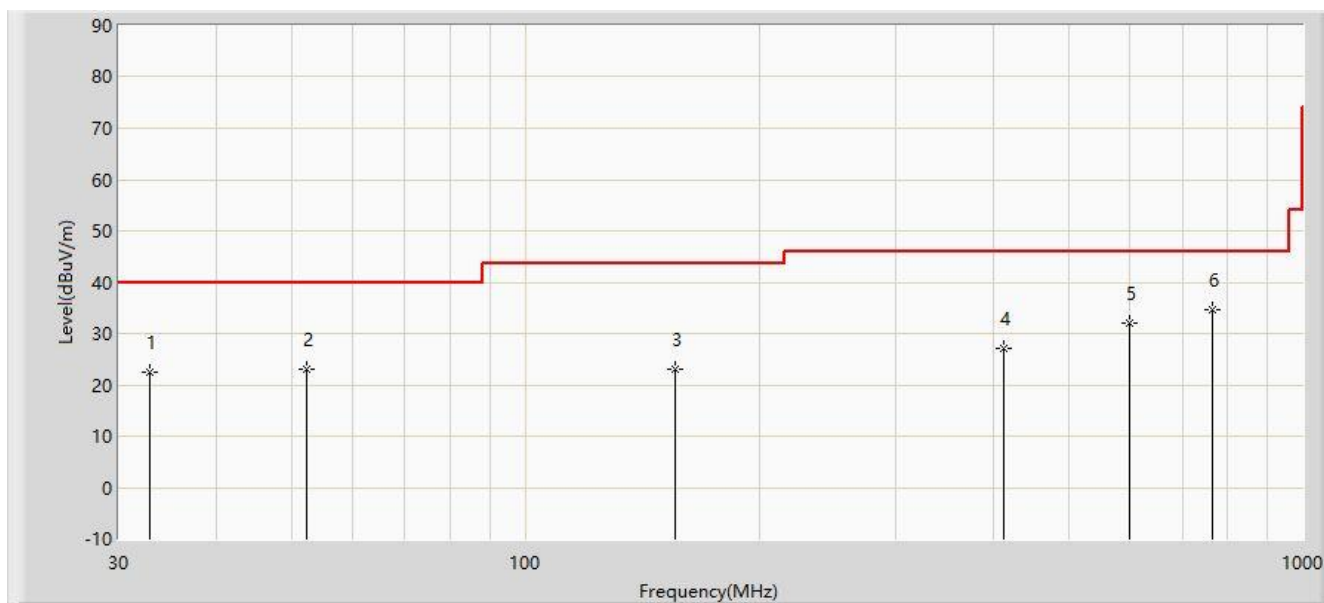
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			40.185	22.007	3.859	-17.993	40.000	18.148	PK
2			50.855	22.420	3.688	-17.580	40.000	18.732	PK
3			156.100	22.444	3.764	-21.056	43.500	18.680	PK
4			497.055	28.585	4.980	-17.415	46.000	23.605	PK
5			654.680	32.009	5.380	-13.991	46.000	26.629	PK
6		*	767.685	34.081	5.179	-11.919	46.000	28.902	PK

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Lenovo Smart Wireless Earbuds	Power: By Battery
Test Mode 2	



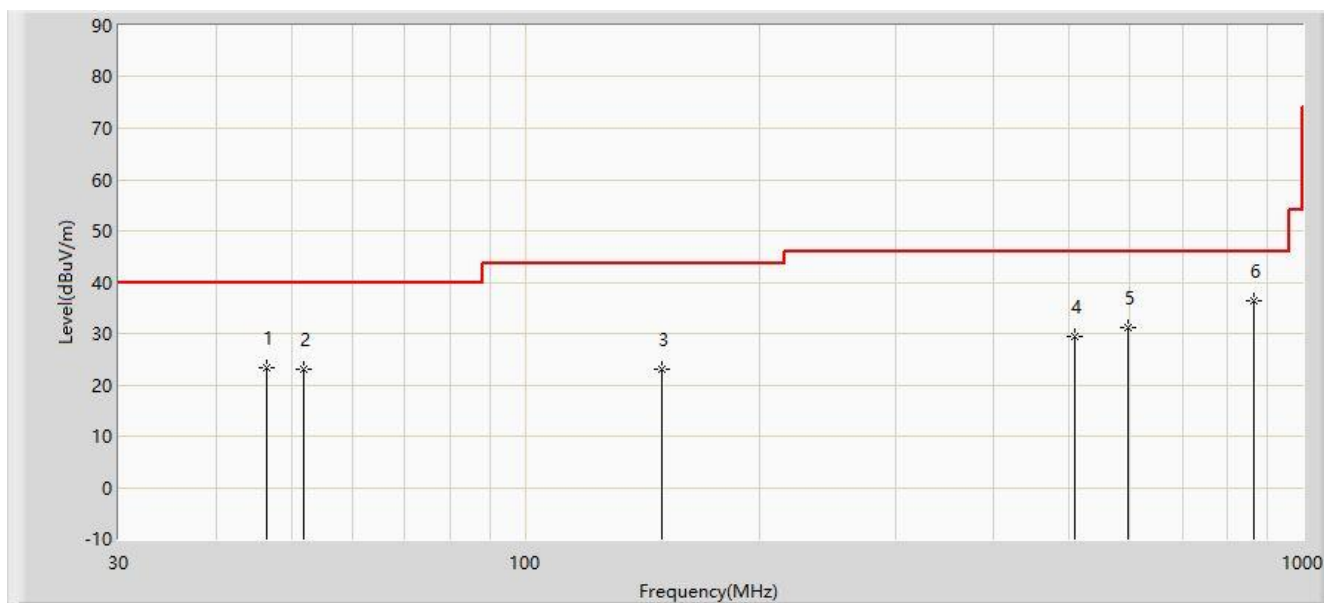
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			32.910	22.511	5.228	-17.489	40.000	17.283	PK
2			52.310	23.035	4.327	-16.965	40.000	18.708	PK
3			156.100	22.905	4.225	-20.595	43.500	18.680	PK
4			412.665	27.222	5.528	-18.778	46.000	21.693	PK
5			598.905	32.129	6.084	-13.871	46.000	26.045	PK
6		*	765.260	34.579	5.715	-11.421	46.000	28.864	PK

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Lenovo Smart Wireless Earbuds	Power: By Battery
Test Mode 2	



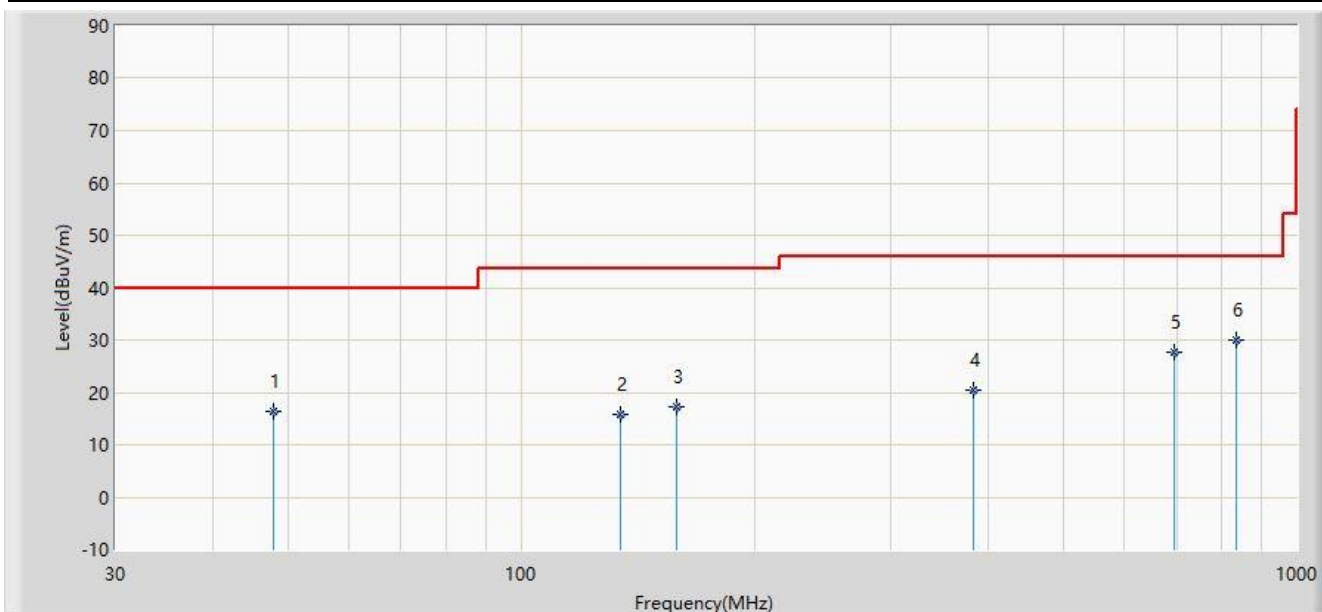
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.490	23.273	4.592	-16.727	40.000	18.681	PK
2			51.825	23.042	4.330	-16.958	40.000	18.712	PK
3			149.795	23.098	4.498	-20.402	43.500	18.600	PK
4			509.180	29.540	5.689	-16.460	46.000	23.851	PK
5			595.510	31.226	5.272	-14.774	46.000	25.954	PK
6		*	865.655	36.261	6.821	-9.739	46.000	29.440	PK

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC3	Time: 2021/07/10
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Edward Zhang
Probe: SIP-AC3_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 3	



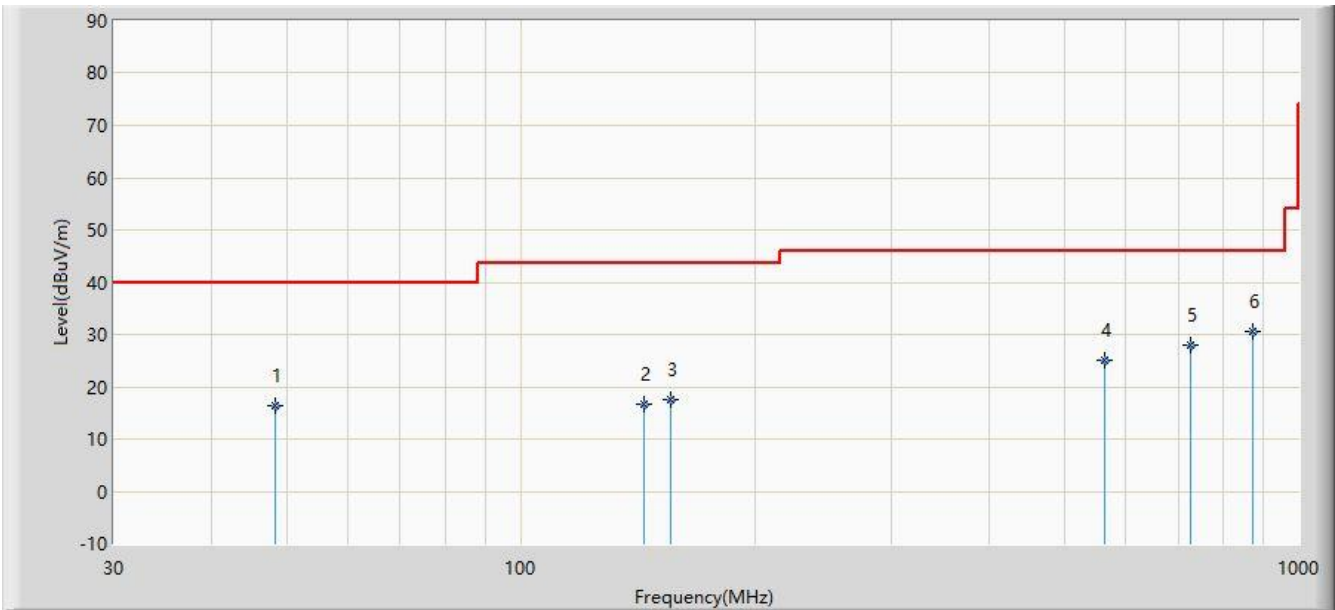
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			47.956	16.374	-1.614	-23.626	40.000	17.988	QP
2			134.275	15.723	-1.130	-27.777	43.500	16.853	QP
3			158.714	17.294	-0.741	-26.206	43.500	18.036	QP
4			382.941	20.402	-0.170	-25.598	46.000	20.572	QP
5			693.941	27.631	1.070	-18.369	46.000	26.562	QP
6		*	836.141	30.121	1.740	-15.879	46.000	28.381	QP

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC3	Time: 2021/07/10
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Edward Zhang
Probe: SIP-AC3_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Lenovo Smart Wireless Earbuds	Power: AC 120V/60Hz
Test Mode 3	



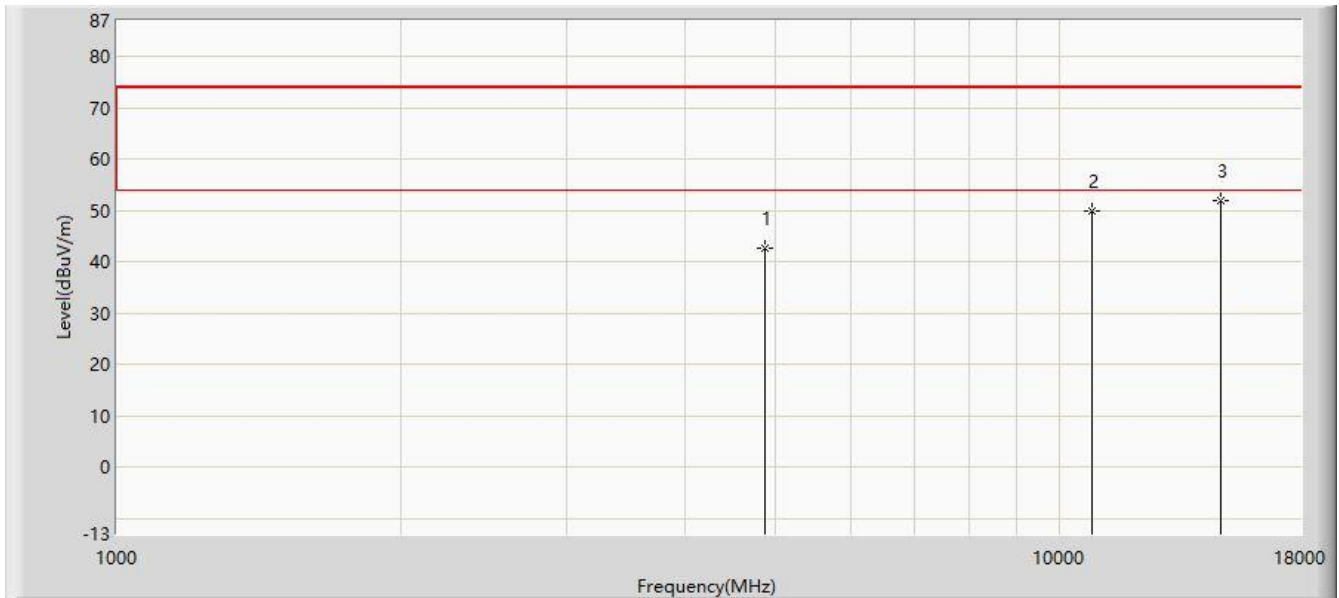
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			48.413	16.266	-1.720	-23.734	40.000	17.986	QP
2			144.173	16.803	-1.101	-26.697	43.500	17.904	QP
3			155.914	17.608	-0.510	-25.892	43.500	18.117	QP
4			563.714	24.970	0.713	-21.030	46.000	24.258	QP
5			727.143	27.986	0.760	-18.014	46.000	27.226	QP
6		*	871.461	30.476	1.614	-15.524	46.000	28.862	QP

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Lenovo Smart Wireless Earbuds	Power: By Battery
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4867.500	42.532	51.712	-31.468	74.000	-9.180	PK
2			10809.000	50.007	45.621	-23.993	74.000	4.386	PK
3		*	14795.500	52.002	44.105	-21.998	74.000	7.897	PK

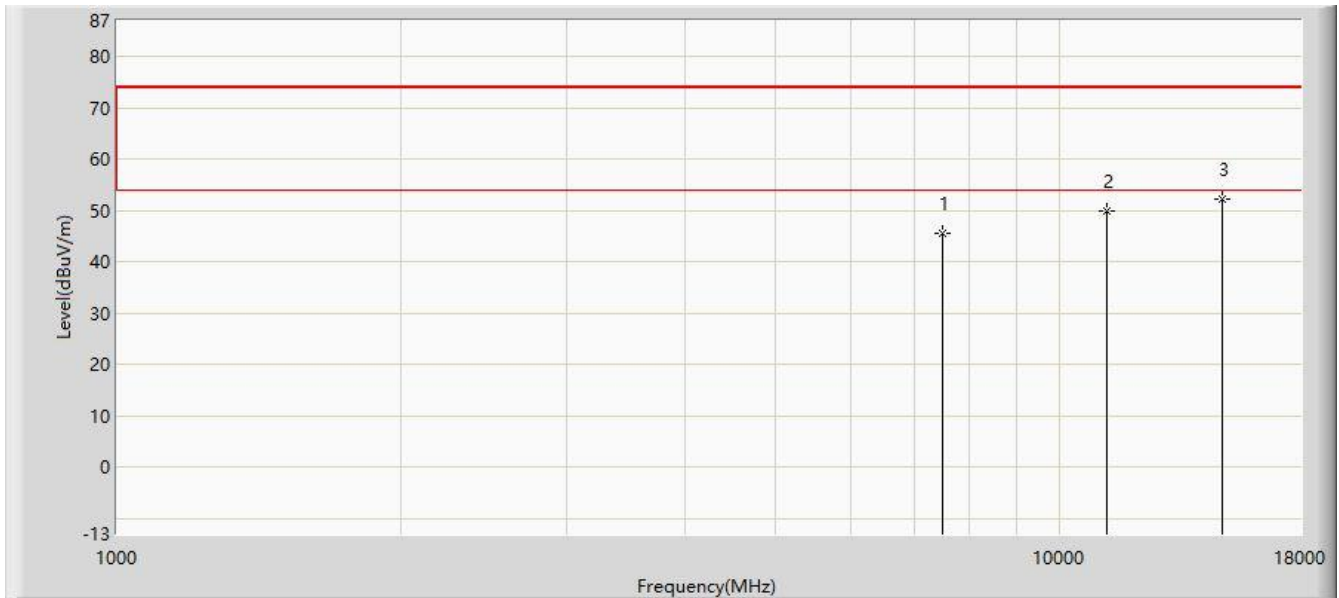
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

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

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC2	Test Date: 2021/06/09
Limit: FCC_Part15.109_RE(3m) _ Class B	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Lenovo Smart Wireless Earbuds	Power: By Battery
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			7502.500	45.645	46.777	-28.355	74.000	-1.132	PK
2			11200.000	50.030	45.306	-23.970	74.000	4.724	PK
3		*	14872.000	52.197	44.424	-21.803	74.000	7.773	PK

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

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

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

6. CONCLUSION

The data collected relate only the item(s) tested and show that the unit has been tested to comply with the requirements specified in §15.107 / §15.109 of the FCC Rules and ISED Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2105RSU058-UT” file.

Appendix B - EUT Photograph

Refer to “2105RSU058-UE” file.