

Prüfbericht-Nr.: Test report no.:	CN25A16Q 002	Auftrags-Nr.: Order no.:	168542146	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-03-10	
Auftraggeber: Client:	Lenovo (Beijing) Limited 201-H2-6, Floor2, Building 2, No. 6 Shangdi West Road, Haidian District, Beijing, China			
Prüfgegenstand: Test item:	Lenovo Wireless Speakerphone 6000			
Bezeichnung / Typ-Nr.: Identification / Type no.:	SPK6000			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15, Subpart C, Section 15.249			
Wareneingangsdatum: Date of sample receipt:	2025-03-14	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A003935154-001~019 A003935154-020~025			
Prüfzeitraum: Testing period:	2025-04-03 - 2025-04-18			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:		genehmigt von: authorized by:		
Datum: Date:	2026-01-20 Signed by: Lin Lin	Ausstellungsdatum: Issue date:	2026-01-20 Signed by: Hardy Suo	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: A5MSPK6000 This report is for 2.4GHz.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.4 BAND EDGE

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 2.4GHz

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

A2LA Certificate Number: 5162.01

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2024-09-26	2025-09-25
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2024-09-26	2025-09-25
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2024-09-26	2025-09-25
DC power supply	Keysight	E3642A	MY61276100	2024-09-26	2025-09-25
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2024-09-26	2025-09-25
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2024-09-26	2025-09-25
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27

Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2025-07-22
Artificial Mains Network	R&S	ENV432	101546	2026-02-09
Shield Cable(9k-30MHz)	N/A	N/A	N/A	2025-12-20
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

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2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Lenovo Wireless Speakerphone 6000 which supports Classic Bluetooth and 2.4GHz wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Lenovo Wireless Speakerphone 6000
Type Designation:	SPK6000
FCC ID:	A5MSPK6000
Operating Voltage:	Battery operated (3.85Vdc, 4215mAh) or USB-C operated (5V, 3A)
Operating Temperature Range:	0 °C ~ +45 °C
Technical Specification of 2.4GHz	
Frequency Range:	2406 MHz to 2474 MHz
Type of Modulation:	GFSK
Channel Number:	16 channels
Channel Separation:	4MHz, 12MHz
Antenna Type:	Integral Antenna
Antenna Gain:	4 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of 2.4GHz

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2406.00	5	2422.00	9	2446.00	13	2462.00
2	2410.00	6	2434.00	10	2450.00	14	2466.00
3	2414.00	7	2438.00	11	2454.00	15	2470.00
4	2418.00	8	2442.00	12	2458.00	16	2474.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. 2.4GHz transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Normal operation + Charging
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - Block Diagram |
| - PCB Layout | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020.

According to clause 3.1, all tests were performed on model *SPK6000* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Laptop	Lenovo	T480	S/N: PF-16A6N8
Dongle	Lenovo	USB Dongle	N/A
Portable Laptop	Lenovo	ThinkPad L14 Gen 2	N/A
PC AC/DC Adapter	Lenovo	ADLX65YCC3A	N/A
AC/DC Adapter	MI	MDY-11-EX	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

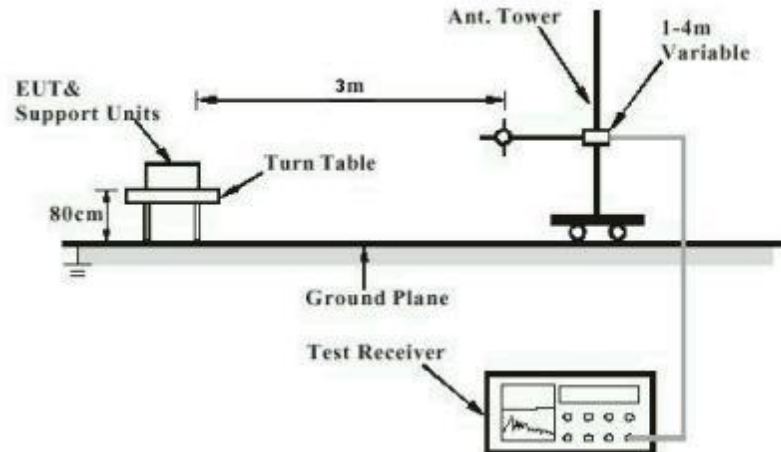


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

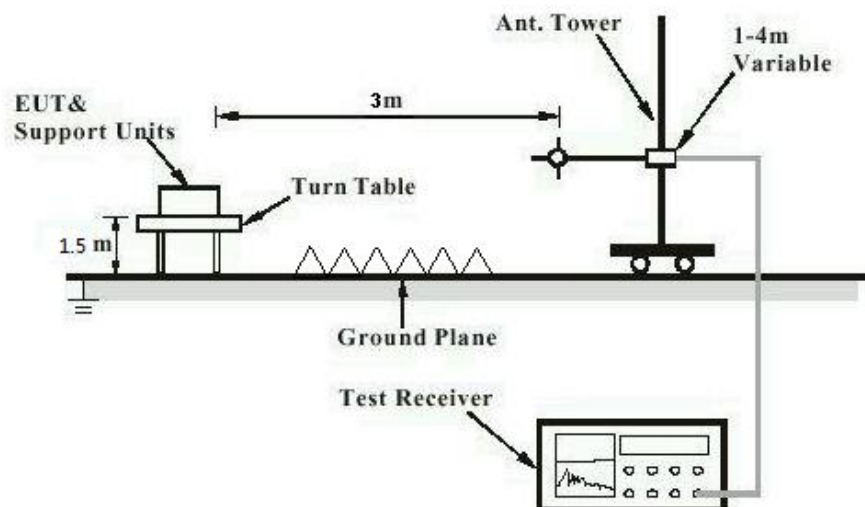


Diagram of Measurement Configuration for Conducted Transmitter Measurement

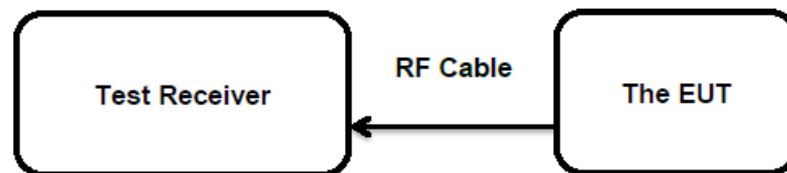
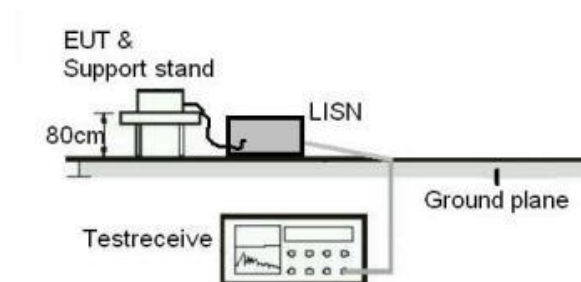


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has Integral Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Field Strength of Fundamental and Harmonics

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249(a) (d) (e)
Basic standard	: ANSI C63.10:2020
Limits	: FCC Part 15.249(a) (d) (e) & 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-04-18
Input voltage	: Battery operated (3.85Vdc)
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

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5.1.3 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.215
Basic standard	: ANSI C63.10:2020
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-10
Input voltage	: Battery operated (3.85Vdc)
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Band Edge

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
Basic standard	: ANSI C63.10:2020
Limits	: FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-04-18
Input voltage	: Battery operated (3.85Vdc)
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10:2020
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-03 to 2025-04-05
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Ambient temperature	: 24.9 °C
Relative humidity	: 50.4 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results of 2.4GHz

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APPENDIX A.5: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	24

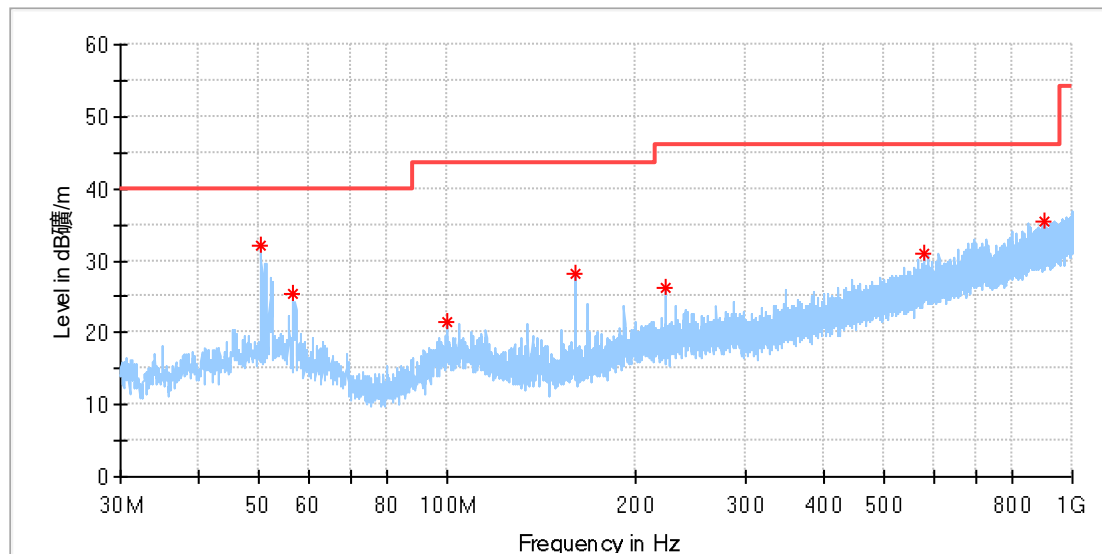
Appendix A.1: Test Results of Field strength of fundamental & harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

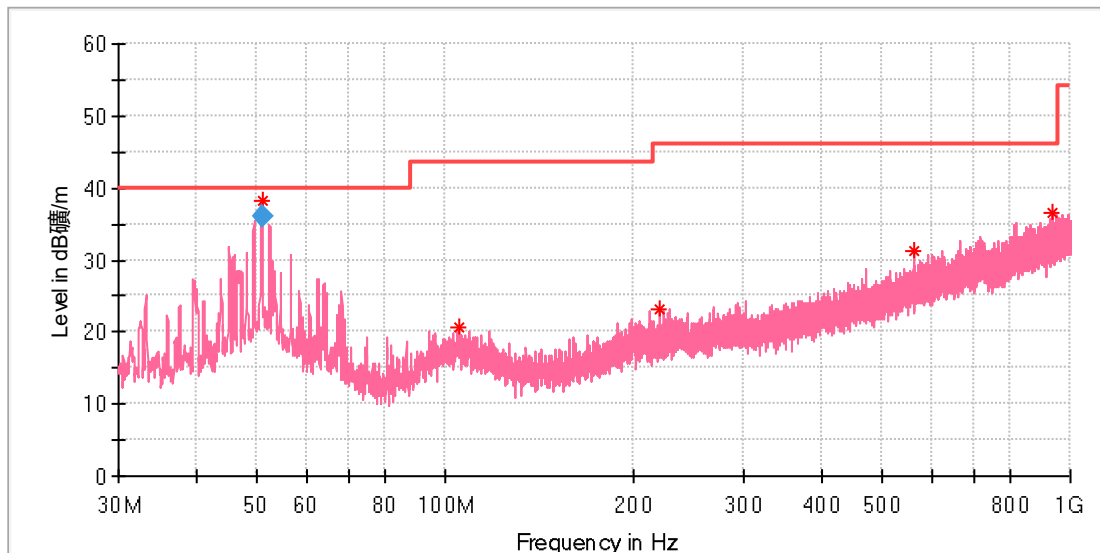
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.407308	32.09	40.00	7.91	100.0	H	215.0	-18.4
56.675000	25.51	40.00	14.49	100.0	H	77.0	-18.7
100.101154	21.53	43.50	21.97	100.0	H	191.0	-19.1
160.017308	28.11	43.50	15.39	100.0	H	77.0	-21.8
224.000000	26.14	46.00	19.86	100.0	H	111.0	-18.4
579.318462	30.91	46.00	15.09	100.0	H	143.0	-10.1
902.179231	35.45	46.00	10.55	100.0	H	119.0	-4.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Lenovo Wireless Speakerphone 6000
Model: SPK6000
Test Mode: 2.4GHz_Mid channel
Order No/Sample No: 168542146/A003935154-006
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.966923	38.18	40.00	1.82	100.0	V	197.0	-18.4
104.988462	20.61	43.50	22.89	100.0	V	40.0	-18.9
220.157308	23.14	46.00	22.86	100.0	V	48.0	-18.6
562.231539	31.18	46.00	14.82	100.0	V	268.0	-10.5
937.546923	36.44	46.00	9.56	100.0	V	317.0	-4.4

Final Result

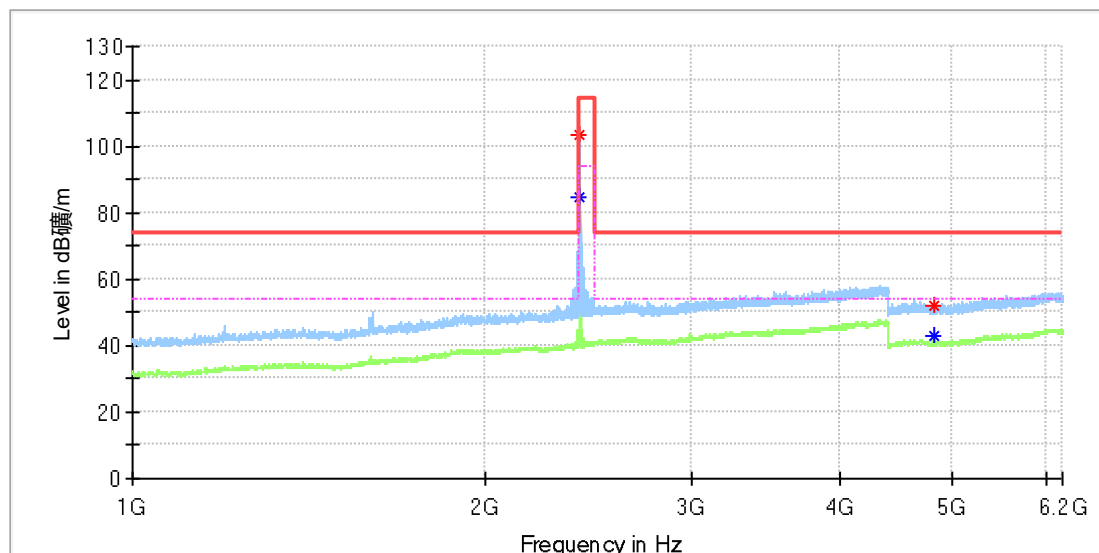
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.966923	35.86	40.00	4.14	105.0	V	196.0	-18.4

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Fundamental.

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

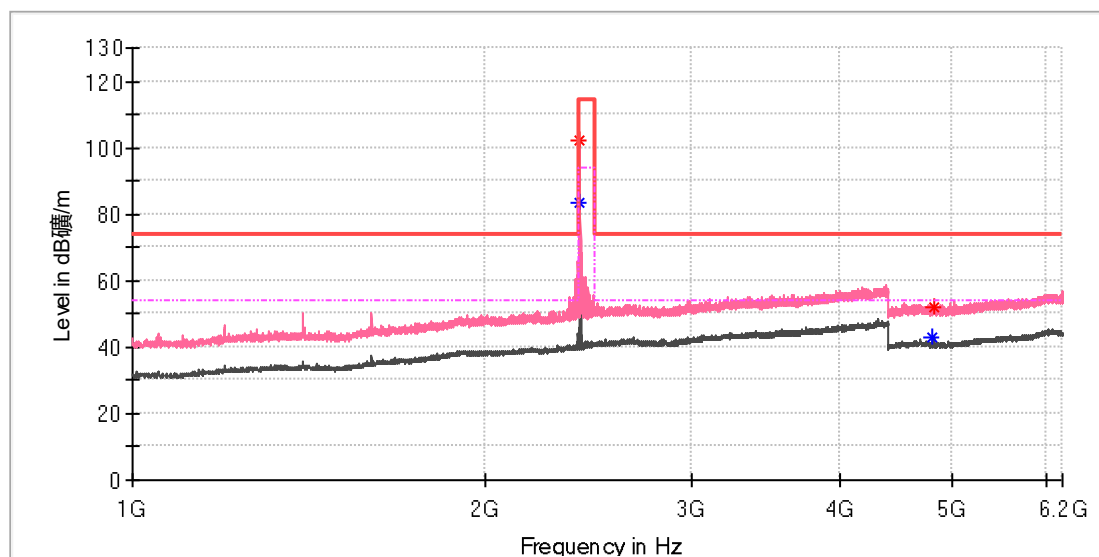
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2406.500000	103.38	---	114.00	10.62	150.0	H	22.0	8.6
2407.500000	---	84.87	94.00	9.13	150.0	H	22.0	8.6
4811.500000	52.14	---	74.00	21.86	150.0	H	234.0	13.3
4811.500000	---	42.76	54.00	11.24	150.0	H	234.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

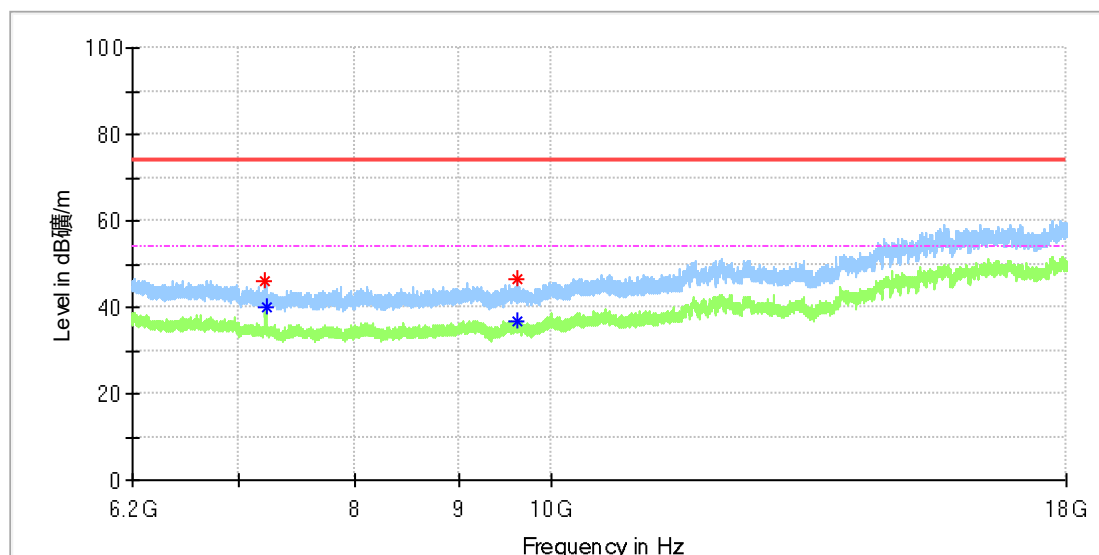
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2406.500000	102.20	---	114.00	11.80	150.0	V	24.0	8.6
2407.500000	---	83.66	94.00	10.34	150.0	V	24.0	8.6
4811.000000	---	43.07	54.00	10.93	150.0	V	57.0	13.3
4822.000000	52.10	---	74.00	21.90	150.0	V	30.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

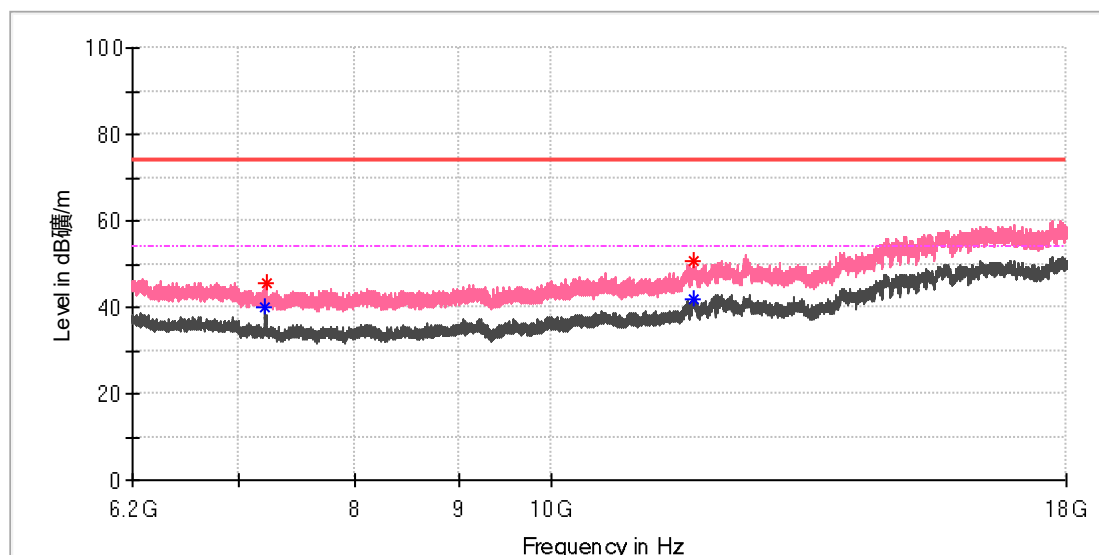
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7216.275000	46.19	---	74.00	27.81	150.0	H	53.0	8.7
7219.225000	---	40.21	54.00	13.79	150.0	H	53.0	8.7
9622.000000	46.69	---	74.00	27.31	150.0	H	0.0	10.4
9625.933333	---	36.83	54.00	17.17	150.0	H	0.0	10.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

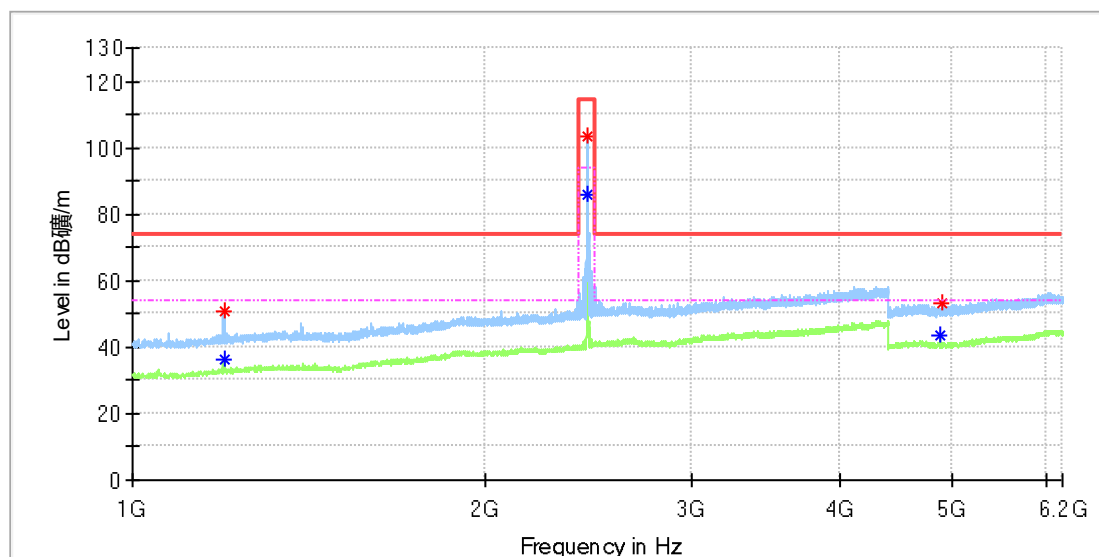
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7217.750000	---	40.13	54.00	13.87	150.0	V	81.0	8.7
7219.716667	45.80	---	74.00	28.20	150.0	V	90.0	8.7
11750.916667	---	41.81	54.00	12.19	150.0	V	117.0	15.5
11752.883333	50.82	---	74.00	23.18	150.0	V	242.0	15.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

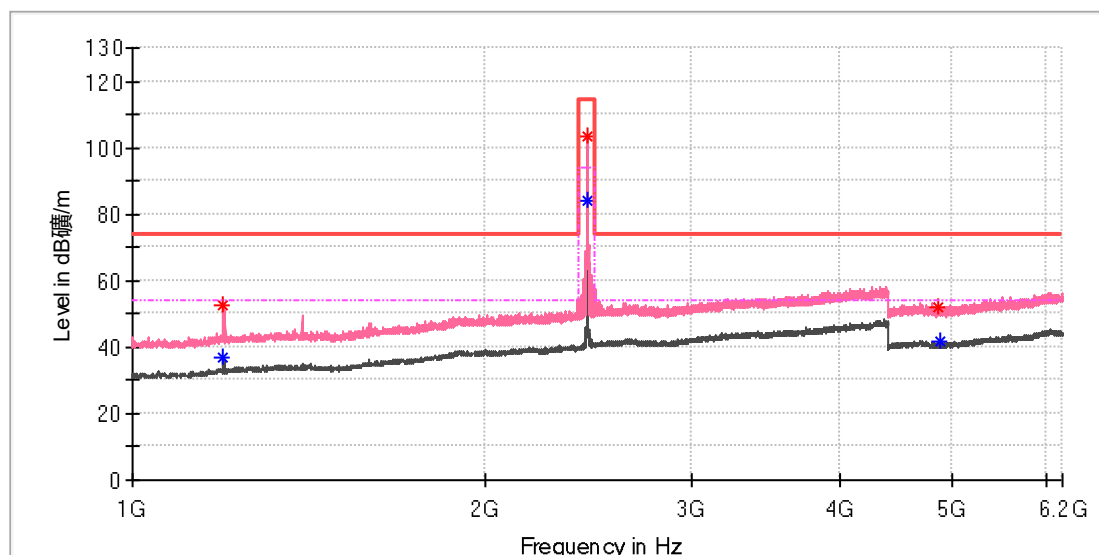
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.500000	50.69	---	74.00	23.31	150.0	H	246.0	1.8
1196.500000	---	36.31	54.00	17.69	150.0	H	246.0	1.8
2442.500000	103.54	---	114.00	10.46	150.0	H	183.0	8.9
2443.500000	---	85.62	94.00	8.38	150.0	H	29.0	9.0
4883.000000	---	43.54	54.00	10.46	150.0	H	186.0	13.3
4904.000000	53.03	---	74.00	20.97	150.0	H	314.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

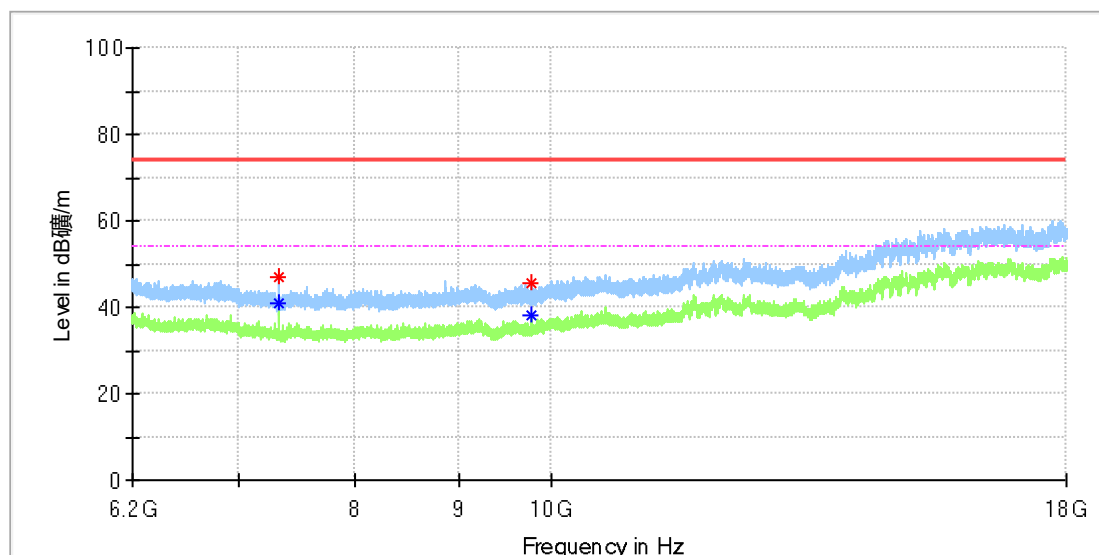
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.500000	52.39	---	74.00	21.61	150.0	V	17.0	1.7
1195.500000	---	36.69	54.00	17.31	150.0	V	17.0	1.7
2441.500000	103.52	---	114.00	10.48	150.0	V	45.0	8.9
2443.000000	---	84.24	94.00	9.76	150.0	V	69.0	9.0
4862.000000	51.95	---	74.00	22.05	150.0	V	217.0	13.3
4882.500000	---	41.49	54.00	12.51	150.0	V	270.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7326.900000	---	40.75	54.00	13.25	150.0	H	108.0	8.1
7327.391667	47.00	---	74.00	27.00	150.0	H	108.0	8.1
9765.566667	45.79	---	74.00	28.21	150.0	H	218.0	10.4
9766.550000	---	38.32	54.00	15.68	150.0	H	218.0	10.4

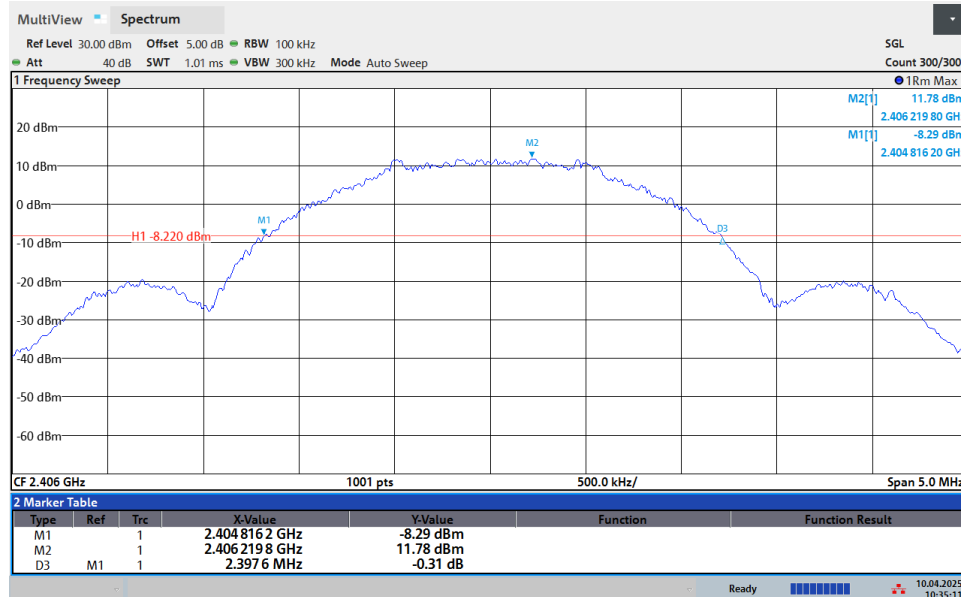
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

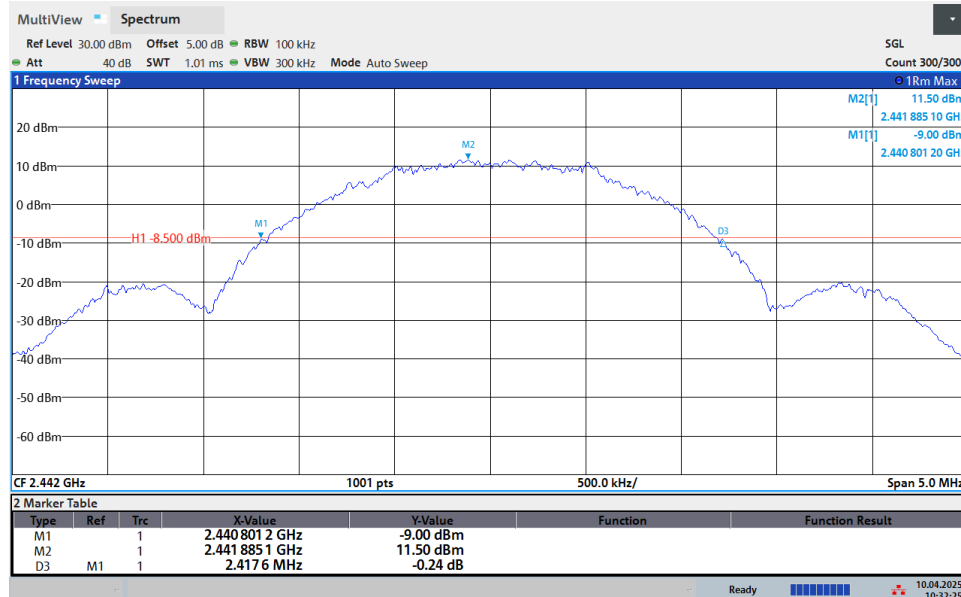
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.2: Test Results of 20dB Bandwidth

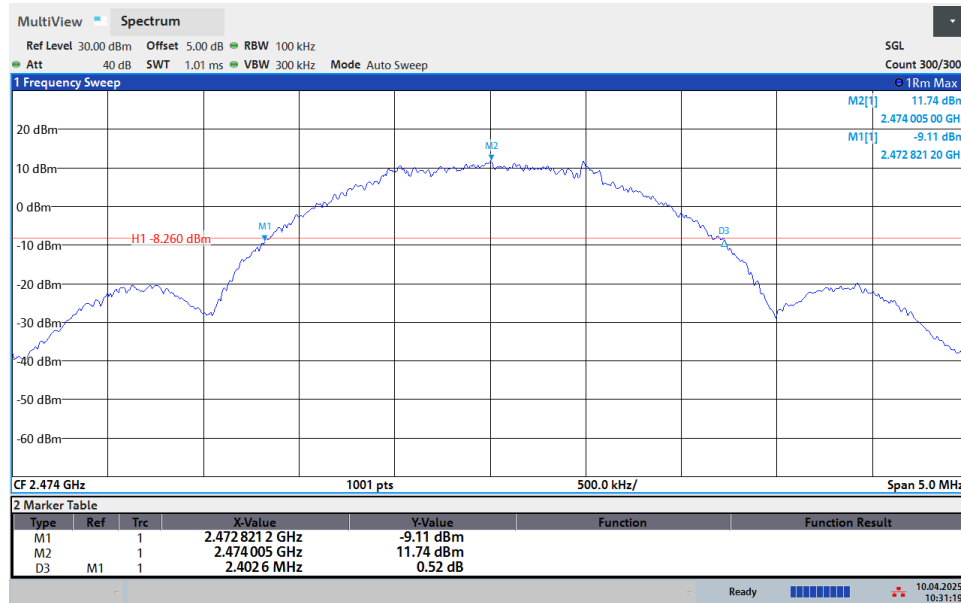
2406MHz



2442MHz

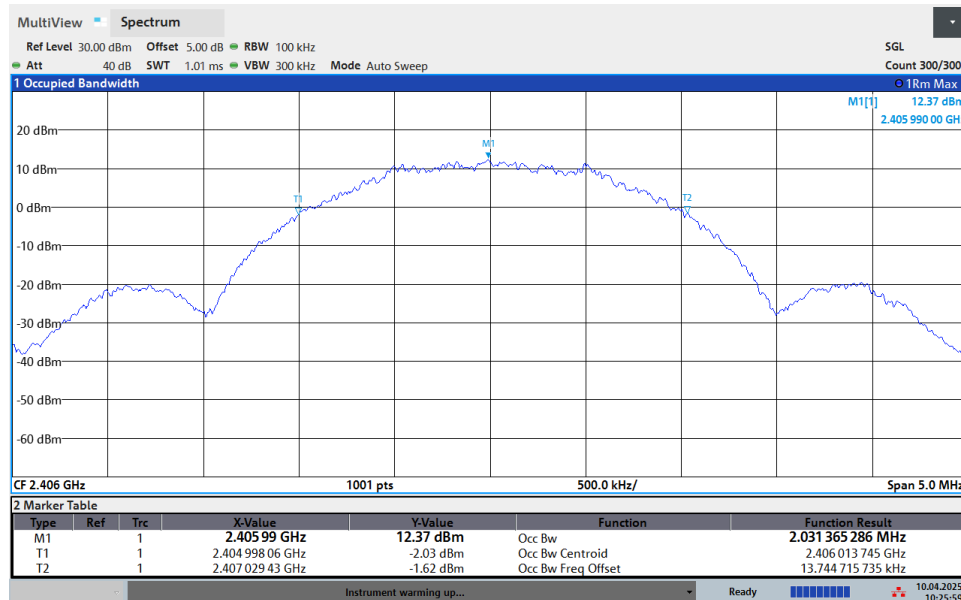


2474MHz

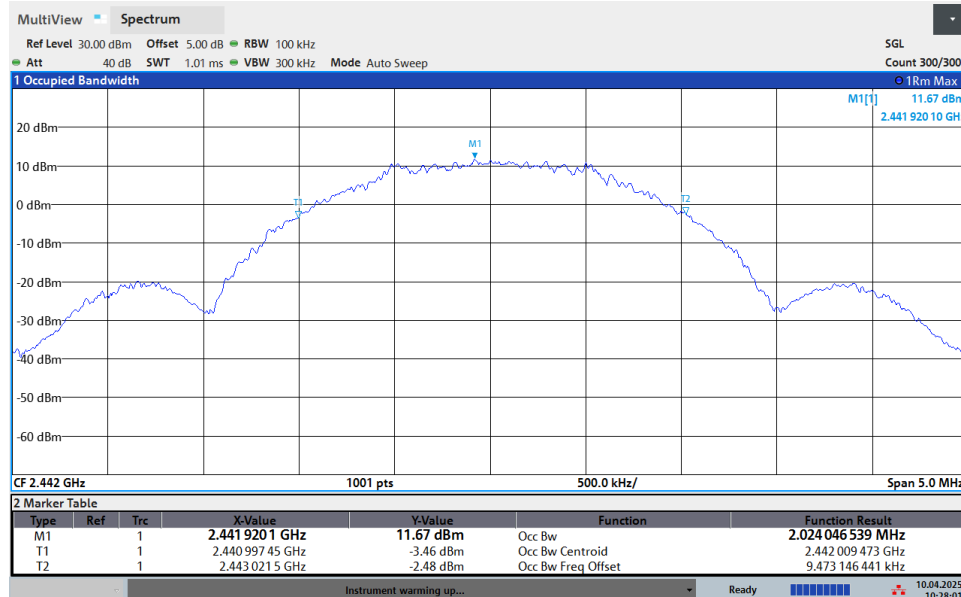


Appendix A.3: Test Results of 99% Bandwidth

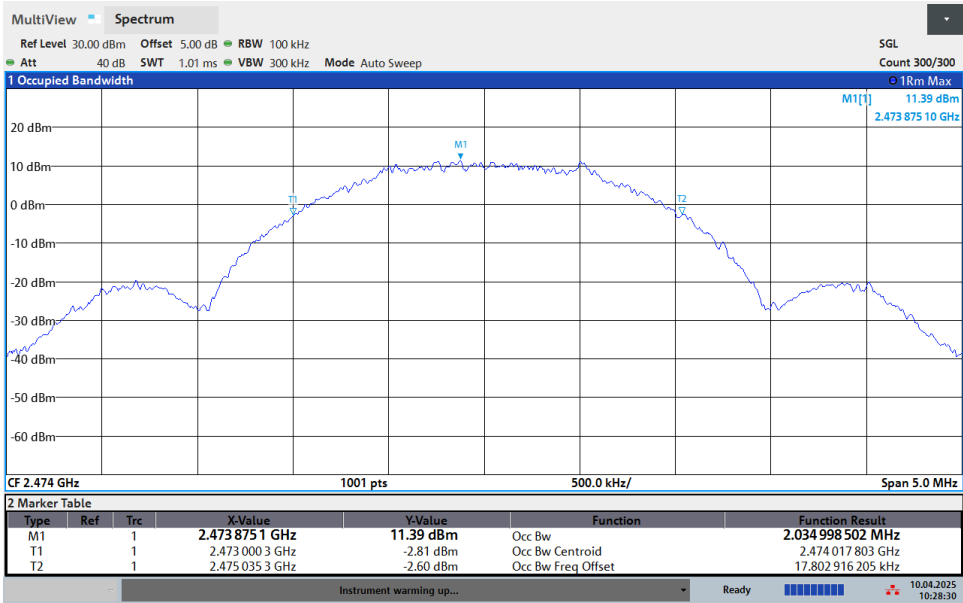
2406MHz



2442MHz



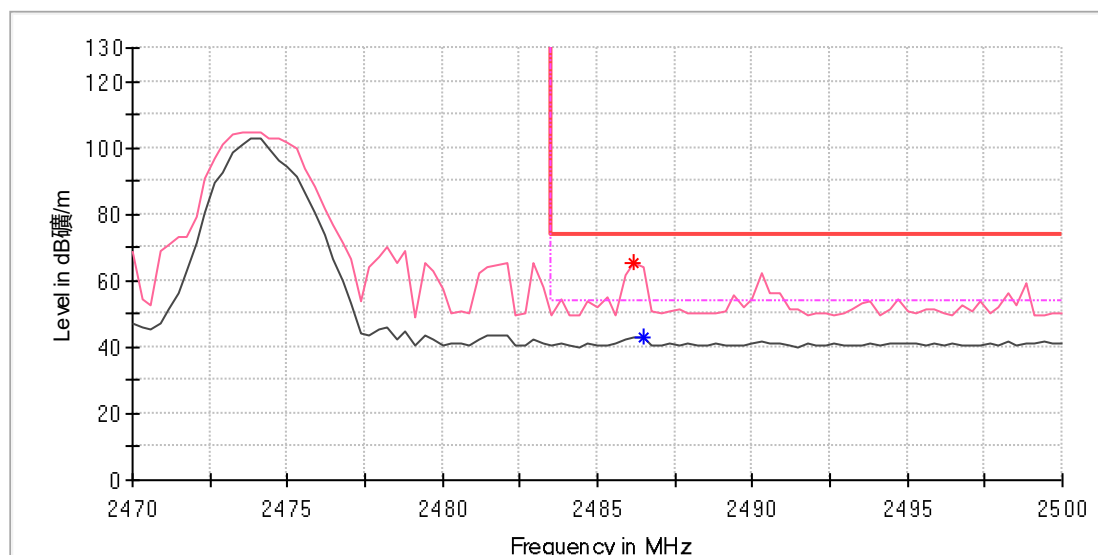
2474MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Model:	SPK6000
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168542146/A003935154-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	65.48	---	74.00	8.52	150.0	V	324.0	9.0
2486.470588	---	43.03	54.00	10.97	150.0	V	341.0	9.0

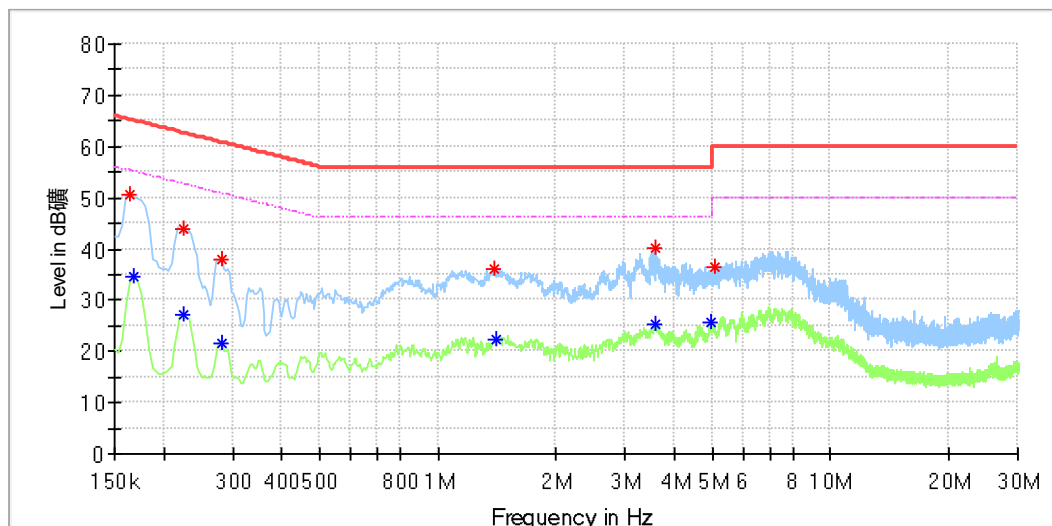
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Lenovo Wireless Speakerphone 6000
Order Number:	168542146
Model:	SPK6000
Test Mode:	2.4G Link+ Charging
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC 15C
Test By:/Review By:	Steve Lan/ Shower Dai
Tem./Hum./Pressure:	24.9°C/50.4%/101kPa
Remark:	SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.164925	50.73	---	65.21	14.48	L1	9.8
0.168656	---	34.44	55.03	20.58	L1	9.8
0.224625	43.89	---	62.65	18.76	L1	9.8
0.224625	---	27.18	52.65	25.46	L1	9.8
0.280594	38.10	---	60.80	22.69	L1	9.8
0.280594	---	21.76	50.80	29.04	L1	9.8
1.392506	36.00	---	56.00	20.00	L1	10.0
1.411163	---	22.45	46.00	23.55	L1	10.0
3.579019	40.12	---	56.00	15.88	L1	10.1
3.593944	---	25.30	46.00	20.70	L1	10.1
4.959581	---	25.70	46.00	20.30	L1	10.1
5.078981	36.63	---	60.00	23.37	L1	10.1

Final Result

[illegible]

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
90.000	100.00	90.00	100.00	10.00	100.00	100.00		0.00