

Prüfbericht-Nr.: <i>Test report no.:</i>	60433940 001	Auftrags-Nr.: <i>Order no.:</i>	168292720	Seite 1 von 33 <i>Page 1 of 33</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2020-11-26	
Auftraggeber: <i>Client:</i>	Lenovo (Beijing) Limited 201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, 100085 Beijing, P. R. China			
Prüfgegenstand: <i>Test item:</i>	Lenovo Legion S600 Gaming Station			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	L01WC001-CS-H (Trademark: Lenovo)			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-11-28	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002979077-001			
Prüfzeitraum: <i>Testing period:</i>	2020-12-08 – 2020-12-17			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2021-02-04				
	Signed by: Alex Lan		Signed by: Winnie Hou	
Stellung / Position	Senior Project Engineer	Ausstellungsdatum: <i>Issue date:</i> 2021-02-04	Department Manager	
Sonstiges / Other:	FCC ID: A5ML01WC001			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(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 a. m. 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>				

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB BANDWIDTH

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.4 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

5.1.5 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

None

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	2021-08-20
OSP	Rohde & Schwarz	OSP 150	101017	2021-12-20
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	Rohde & Schwarz	WMS32 (V10.40.10)	N/A	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2023-07-23
Unwanted Emission Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	Rohde & Schwarz	ESR 7	102021	2021-08-19
Signal Analyzer	Rohde & Schwarz	FSV 40	101439	2021-08-21
System Controller Interface	Rohde & Schwarz	SCI-100	S10010038	N/A
Filterbank	Rohde & Schwarz	Wlan	100759	2021-08-21
OSP	Rohde & Schwarz	OSP 120	102040	N/A
Pre-amplifier	Rohde & Schwarz	SCU08F1	08320031	2021-08-20
Amplifier	Rohde & Schwarz	SCU-18F	180070	2021-08-20
Amplifier	Rohde & Schwarz	SCU40A	100475	2021-08-21
Trilog Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VULB9162	193	2021-09-02
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2021-09-02
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2021-09-02
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2021-09-01
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	2021-09-02
Test software	Rohde & Schwarz	V10.40.10-EMC32	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2021-06-07

Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2021-09-03
Artificial Mains Network	R&S	ENV216	102333	2021-08-19
Artificial Mains Network	R&S	ENV432	101411	2021-08-19
Impedance Stabilisation Network	R&S	ENY81	100323	2021-08-19
Impedance Stabilisation Network	R&S	ENY81-CA6	101810	2021-08-20
Current Probe	R&S	EZ-17	101247	2021-08-19
Voltage Probe	R&S	ESH2-Z3	100557	2021-08-19
Attenuator	R&S	ESH2Z31	100300	2021-08-19
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

Radiated Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS	SAC3	CT001632-Q1362	2021-08-23
EMI Test Receiver	R&S	ESR7	102111	2021-01-23
Horn Antenna	R&S	HF907	102706	2021-09-01
Preamplifier	FIT	SCU-18F	180077	2021-08-19
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2021-08-19
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2021-08-19
Switching Controller Interface	R&S	OSP 120	102039	N/A
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

Radiated Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
10m modified SAC	ETS	SAC10	CT001632-Q1399	31.08.2021
EMI Test Receiver	R&S	ESR7	102022	19.08.2020
EMI Test Receiver	R&S	ESR7	102023	19.08.2020
Bilog Antenna	TESEQ	CBL6112D	51321	29.08.2020
Bilog Antenna	TESEQ	CBL6112D	51322	29.08.2020
Preamplifier	SCHWARZBECK	BBV9745	115	09.10.2020
Preamplifier	EMCI	EMC9135-P	980629	05.01.2020
Preamplifier	FIT	SCU-18F	180076	19.08.2020
Horn Antenna	R&S	HF907	102707	01.09.2020
Switching Controller Interface	R&S	OSP 120	102038	N/A
EMC32 test software	R&S	EMC32(Ver.10.50.01)	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

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 3.70 dB ± 3.30 dB	± 3.8 dB ± 3.4 dB
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A
Radiated Emission (10m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.66 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.35 dB	N/A

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of 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 device is a Lenovo Legion S600 Gaming Station, which supports wireless charging function.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Lenovo Legion S600 Gaming Station
Type Designation	L01WC001-CS-H
FCC ID	A5ML01WC001
Trade Mark	Lenovo
Input Voltage	DC 20V, 2.25A via AC/DC Adapter
Test Voltage	AC 120V, 60Hz
AC/DC Adapter	Model: ADL45WCC Rating Input: AC 100-240V, 50/60Hz, 1.5A Rating Output: DC 20V, 2.25A, 45W Length of DC output cable: 196mm
Technical Specification of WPT	
Operating Frequency	110-205KHz
Extreme Temperature Range	0°C - +40°C
Modulation	FSK
Antenna Type	Induction coil
Antenna Gain	0 dBi
Wireless output	10W maximum

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. On, Wireless charging + USB disks transfer data + earphone charging
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Block Diagram
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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.

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.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5&6. All testing were performed according to the procedures in ANSI C63.10: 2013 & ANSI C63.4: 2014

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Electrical Load	celfras	CWJ-A15W-R0	N/A
Earphone	Lenovo	Legion H600	N/A
Notebook	Lenovo	ThinkPad X250	N/A
USB disk	Kingston	G3	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 30MHz)

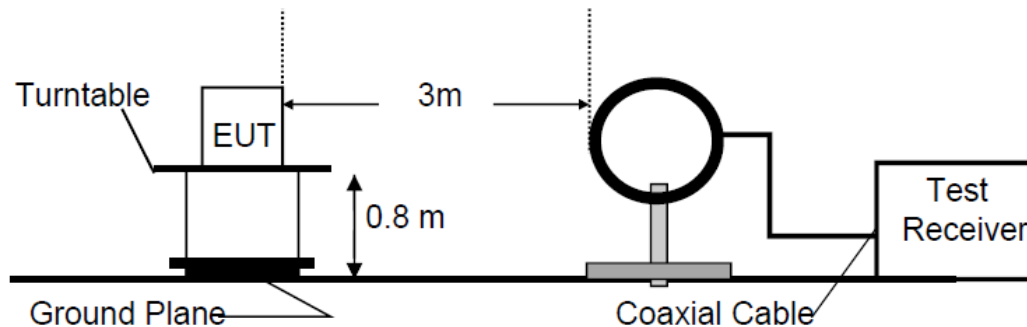


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

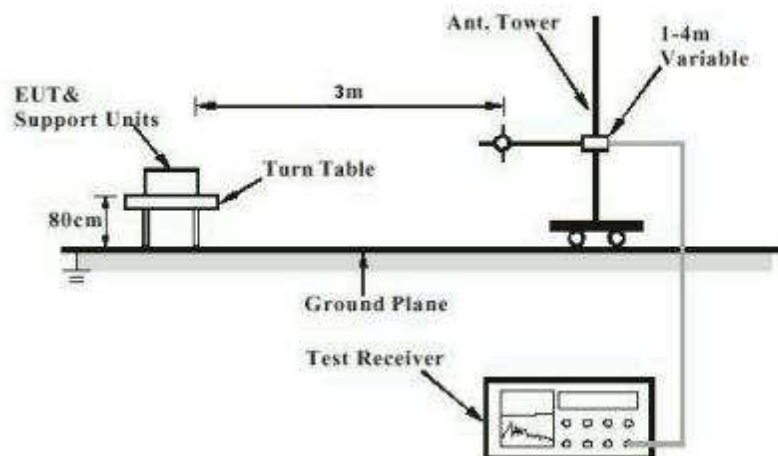
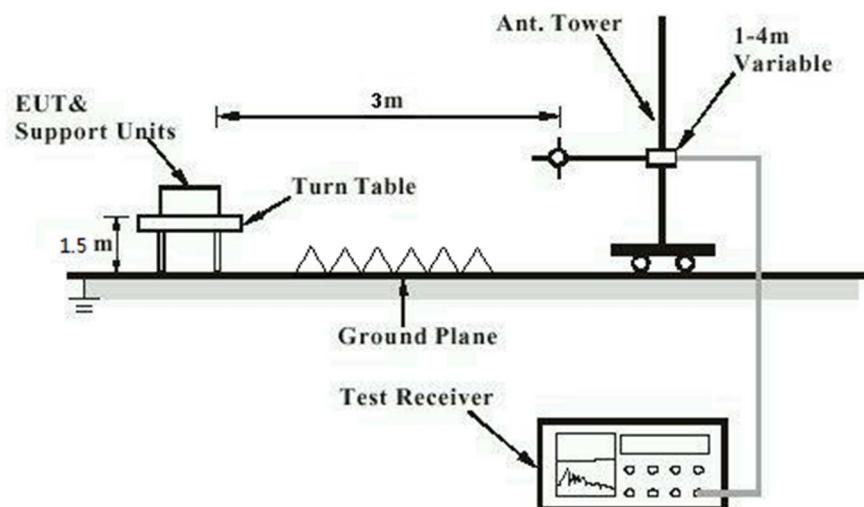


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



A

Diagram of Measurement Configuration for Conducted Transmitter Measurement

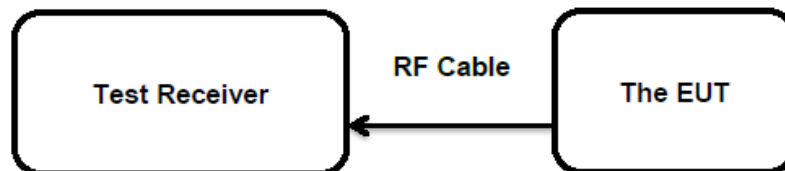
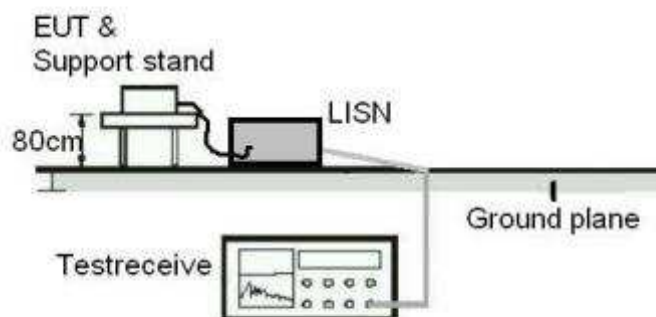


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites for WPT

5.1.1 Antenna Requirement

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

Test standard	:	Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 20dB Bandwidth

RESULT:
Pass

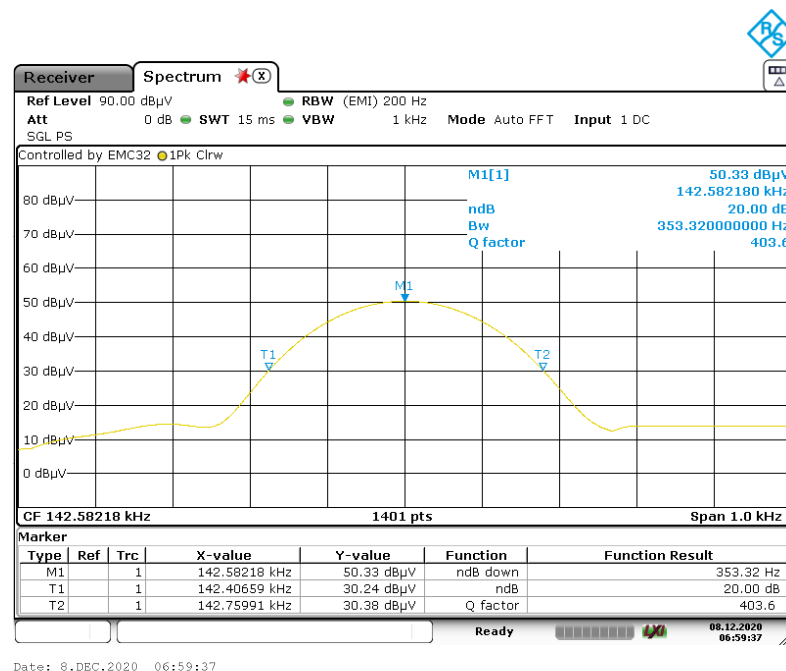
Test Specification

Test standard : FCC Part 15.215(c)
 Basic standard : ANSI C63.10: 2013
 Kind of test site : Shielded Room

Test Setup

Date of testing : 08.12.2020
 Input voltage : AC 120V, 60Hz
 Operation mode : A
 Ambient temperature : 25 °C
 Relative humidity : 56 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.



5.1.3 Radiated Spurious Emission

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

Test standard	: FCC Part 15.201
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

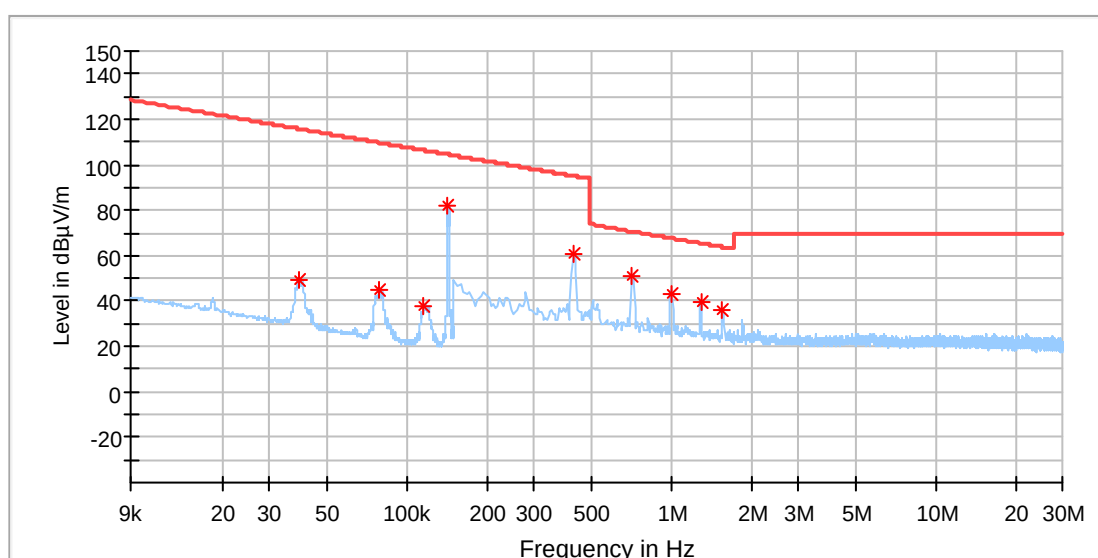
Test Setup

Date of testing	: 14.12.2020
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
Model: L01WC001-CS-H
Test Mode: TX
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:48%
Test Standard: FCC Part 15C
Tested By: Alano Qu
Reviewed By: Terry Yin

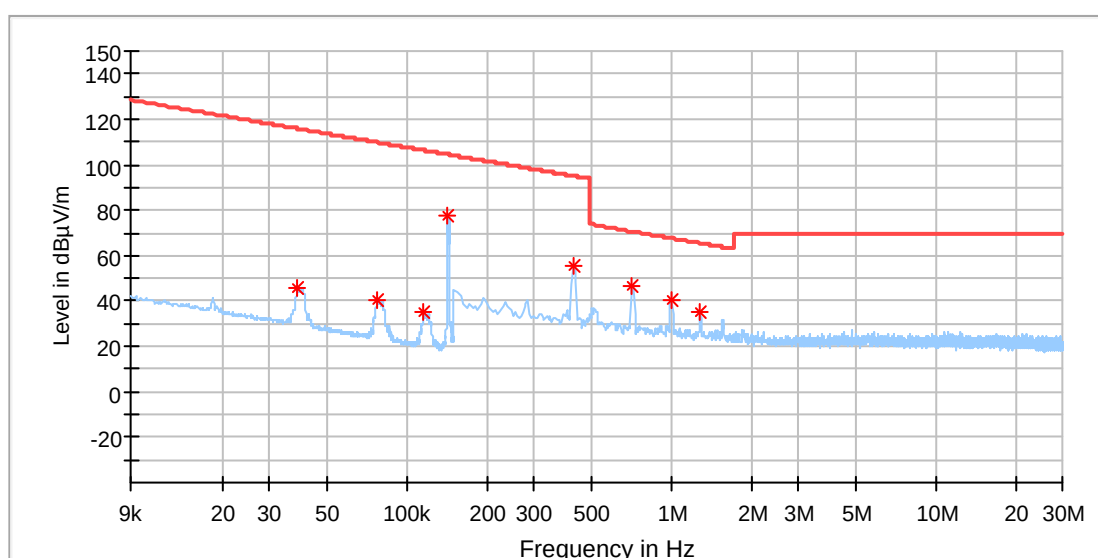


Critical_Freqs

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.039013	49.46	115.77	66.31	100.0	X	337.0	20.0
0.077989	44.50	109.75	65.25	100.0	X	337.0	20.0
0.115254	37.91	106.36	68.46	100.0	X	332.0	20.0
0.142044	81.80	104.55	22.75	100.0	X	322.0	20.0
0.426552	60.33	95.00	34.68	100.0	X	323.0	20.0
0.707493	51.22	70.62	19.40	100.0	X	314.0	20.0
1.005993	43.22	67.57	24.35	100.0	X	319.0	20.0
1.291324	39.25	65.41	26.15	100.0	X	139.0	20.0
1.559096	35.68	63.78	28.10	100.0	X	314.0	20.0

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
Model: L01WC001-CS-H
Test Mode: TX
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:48%
Test Standard: FCC Part 15C
Tested By: Alano Qu
Reviewed By: Terry Yin

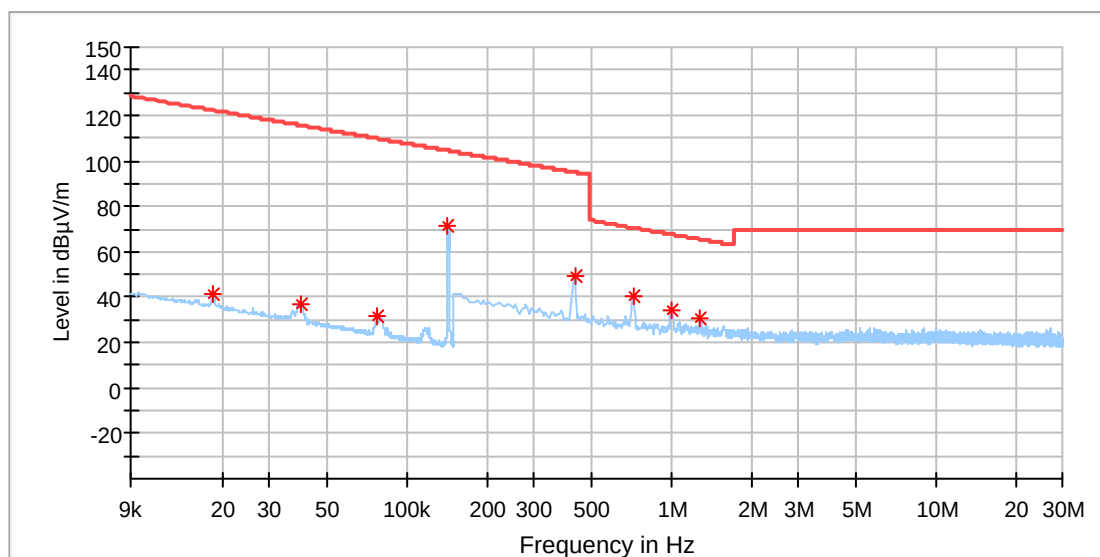


Critical_Freqs

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038610	46.07	115.86	69.79	100.0	Y	297.0	20.0
0.077586	40.63	109.80	69.17	100.0	Y	285.0	20.0
0.115656	35.27	106.33	71.06	100.0	Y	297.0	20.0
0.142044	77.11	104.55	27.44	100.0	Y	260.0	20.0
0.422162	55.40	95.09	39.70	100.0	Y	267.0	20.0
0.707493	46.42	70.62	24.20	100.0	Y	56.0	20.0
0.992824	40.62	67.68	27.07	100.0	Y	71.0	20.0
1.273765	34.79	65.53	30.74	100.0	Y	250.0	20.0

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
Model: L01WC001-CS-H
Test Mode: TX
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:48%
Test Standard: FCC Part 15C
Tested By: Alano Qu
Reviewed By: Terry Yin

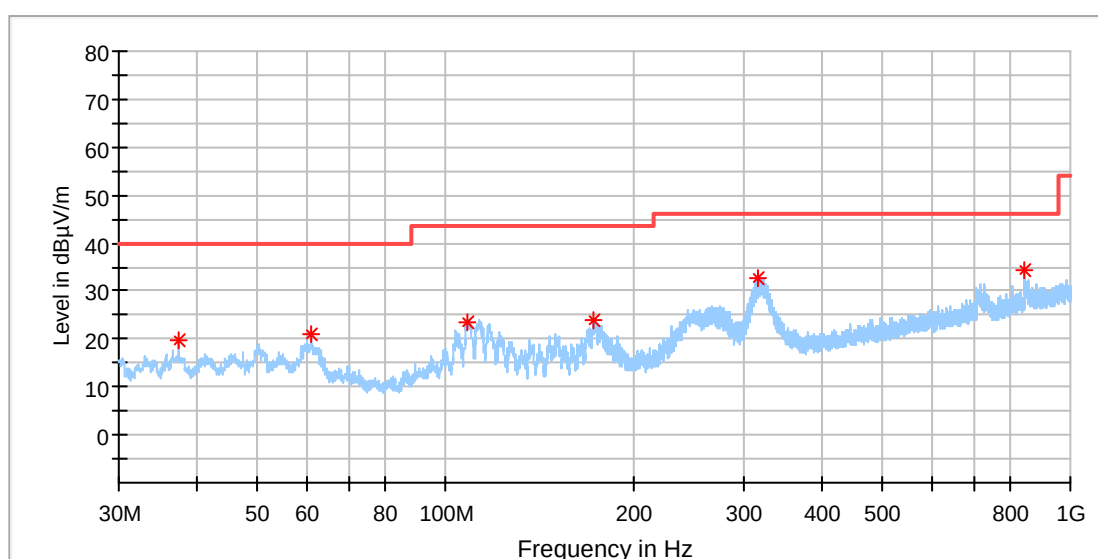


Critical Freqs

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.018366	41.26	122.31	81.04	100.0	Z	269.0	20.0
0.039919	37.10	115.57	78.47	100.0	Z	345.0	20.0
0.076781	31.58	109.89	78.31	100.0	Z	332.0	20.0
0.142446	71.04	104.53	33.49	100.0	Z	319.0	20.0
0.430941	48.91	94.92	46.01	100.0	Z	314.0	20.0
0.711883	40.60	70.57	29.97	100.0	Z	323.0	20.0
1.005993	34.36	67.57	33.21	100.0	Z	7.0	20.0
1.282544	31.01	65.47	34.46	100.0	Z	336.0	20.0

EUT Information

EUT Name:	Lenovo Legion S600 Gaming Station
Model:	L01WC001-CS-H
Test Mode:	TX
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC Part 15C
Tested By:	Alano Qu
Reviewed By:	Terry Yin

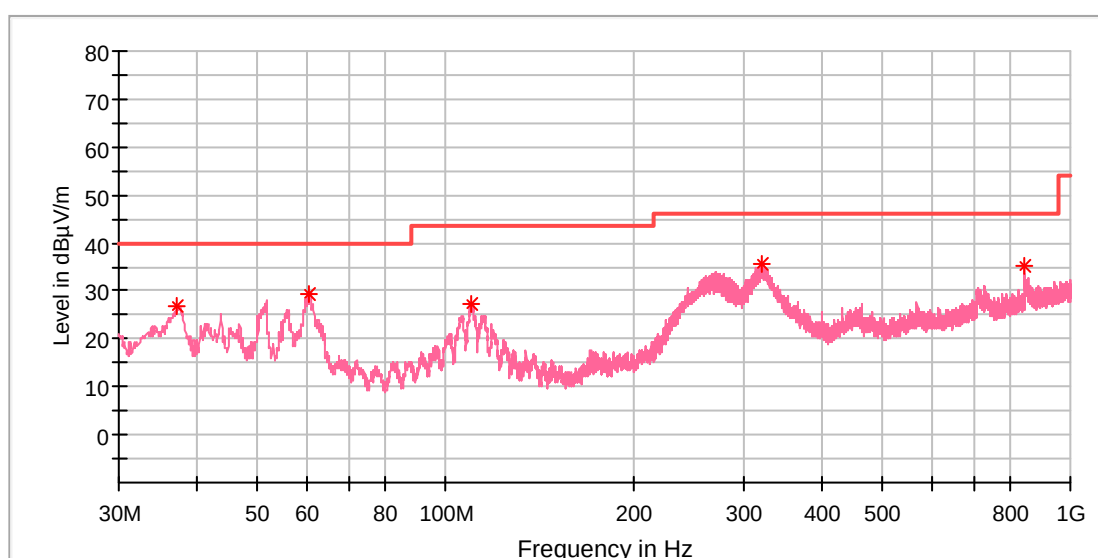


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	19.88	40.00	20.12	100.0	H	77.0	-21.0
60.991500	21.13	40.00	18.87	100.0	H	77.0	-19.2
107.988000	23.64	43.50	19.86	100.0	H	326.0	-18.9
173.172000	24.11	43.50	19.39	100.0	H	282.0	-21.0
317.217000	32.75	46.00	13.25	100.0	H	309.0	-15.8
845.042500	34.22	46.00	11.78	100.0	H	216.0	-5.6

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
Model: L01WC001-CS-H
Test Mode: TX
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:48%
Test Standard: FCC Part 15C
Tested By: Alano Qu
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.226500	26.81	40.00	13.19	100.0	V	165.0	-21.1
60.603500	29.49	40.00	10.51	100.0	V	244.0	-19.1
110.364500	27.24	43.50	16.26	100.0	V	0.0	-19.1
321.873000	35.56	46.00	10.44	100.0	V	165.0	-15.7
844.994000	35.01	46.00	10.99	100.0	V	336.0	-5.6

5.1.4 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a), FCC Part 15.107(a)
Basic standard	: ANSI C63.4: 2014, ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a), FCC Part 15.107(a)
Kind of test site	: Shielded Room

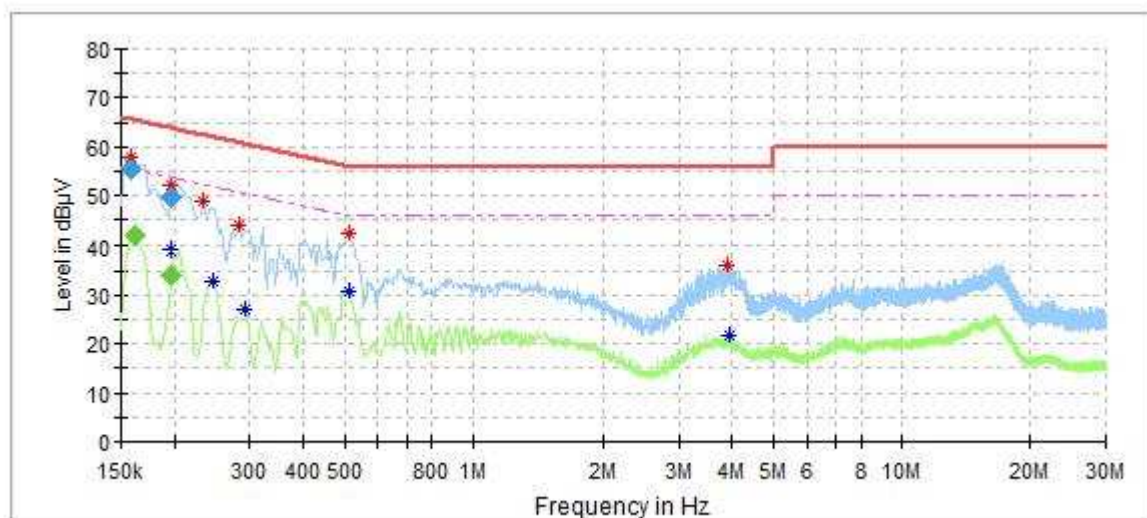
Test Setup

Date of testing	: 08.12.2020
Input voltage	: AC 120V/60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 22 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix C.

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
 Model: L01WC001-CS-H
 Test Mode: Full load (wireless charging + earphone charging + USB disk)
 Test Voltage: AC 120V/60Hz
 Test By: Mac Xie
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

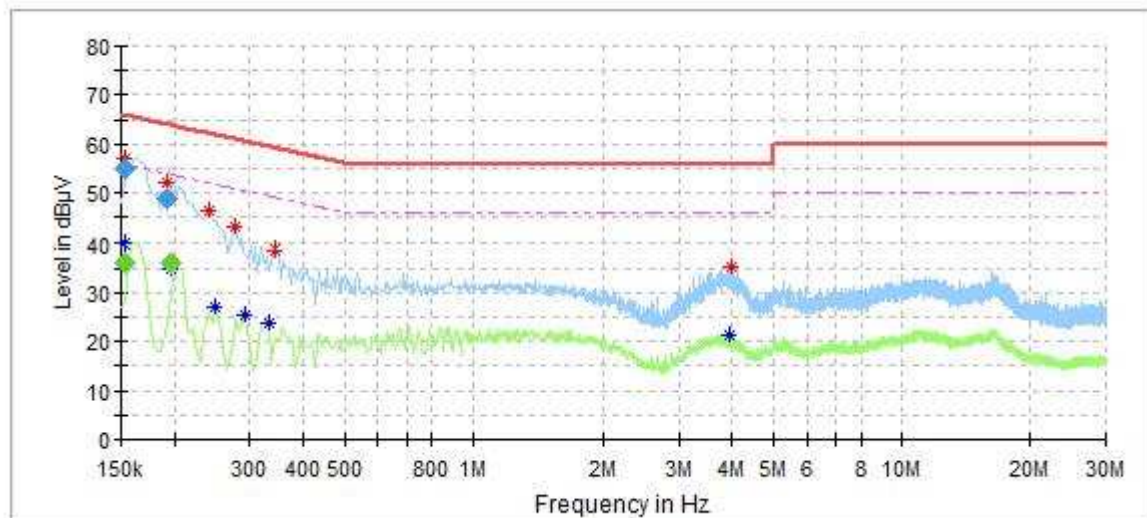
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	48.88	---	62.31	13.43	L1	9.6
0.246000	---	32.81	51.89	19.08	L1	9.6
0.282000	43.80	---	60.76	16.95	L1	9.6
0.294000	---	26.87	50.41	23.54	L1	9.6
0.512000	42.16	---	56.00	13.84	L1	9.7
0.516000	---	30.91	46.00	15.09	L1	9.7
3.920000	36.29	---	56.00	19.71	L1	9.8
3.932000	---	21.75	46.00	24.25	L1	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	55.40	---	65.57	10.16	200.0	9.000	L1	9.6
0.162000	---	41.84	55.36	13.52	200.0	9.000	L1	9.6
0.196500	---	34.04	53.76	19.72	200.0	9.000	L1	9.6
0.196500	49.60	---	63.76	14.16	200.0	9.000	L1	9.6

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
 Model: L01WC001-CS-H
 Test Mode: Full load (wireless charging + earphone charging + USB disk)
 Test Voltage: AC 120V/60Hz
 Test By: Mac Xie
 Review By: Gary Chen
 Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.242000	46.41	---	62.03	15.62	N	9.6
0.250000	---	27.02	51.76	24.73	N	9.6
0.278000	42.88	---	60.88	17.99	N	9.6
0.294000	---	25.61	50.41	24.80	N	9.6
0.334000	---	23.74	49.35	25.61	N	9.7
0.346000	38.39	---	59.06	20.67	N	9.7
3.928000	---	21.41	46.00	24.59	N	9.8
4.008000	35.17	---	56.00	20.83	N	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.152500	---	36.16	55.86	19.70	200.0	9.000	N	9.6
0.154000	54.87	---	65.78	10.91	200.0	9.000	N	9.6
0.192500	48.87	---	63.93	15.05	200.0	9.000	N	9.6
0.196500	---	35.96	53.76	17.80	200.0	9.000	N	9.6

5.1.5 Radiated Emission

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

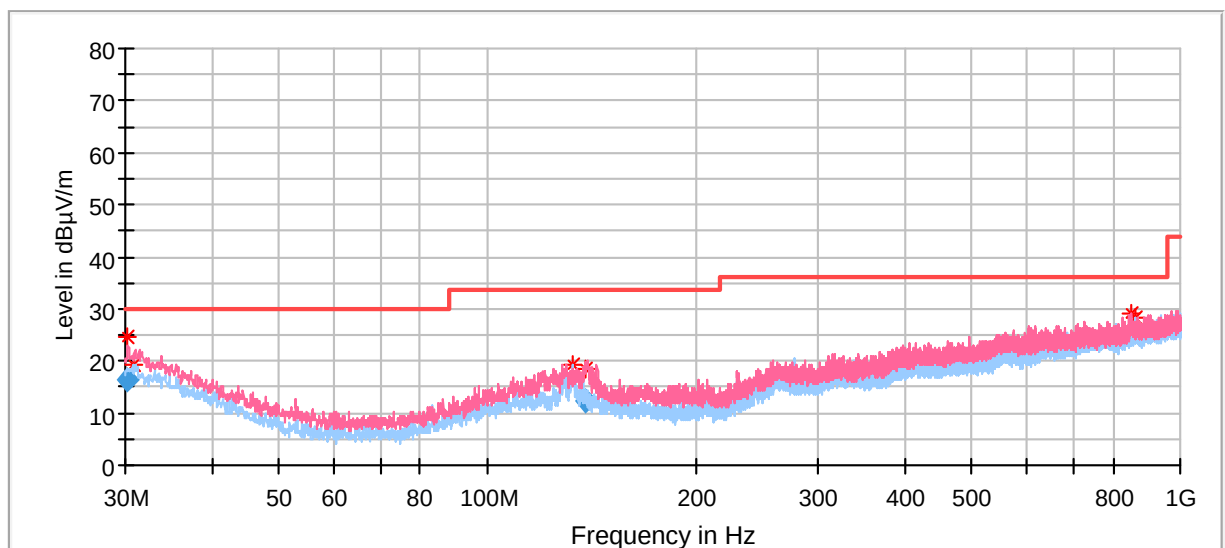
Test standard	: FCC Part 15.109(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 6000MHz
Classification	: Class B
Limit	FCC Part 15.109(a)
Kind of test site	: 10m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 17.12.2020
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not Connected
Ambient temperature	: 24.5 °C
Relative humidity	: 59 %
Atmospheric pressure	: 101 kPa

EUT Information

EUT Name: Lenovo Legion S600 Gaming Station
 Model: L01WC001-CS-H
 Test Mode: Full load (wireless charging + earphone charging + USB disk)
 Test Voltage: AC 120V/60Hz
 Test By: Mac Xie
 Review By: Gary Chen
 Remark: 10m Chamber



Critical_Freqs

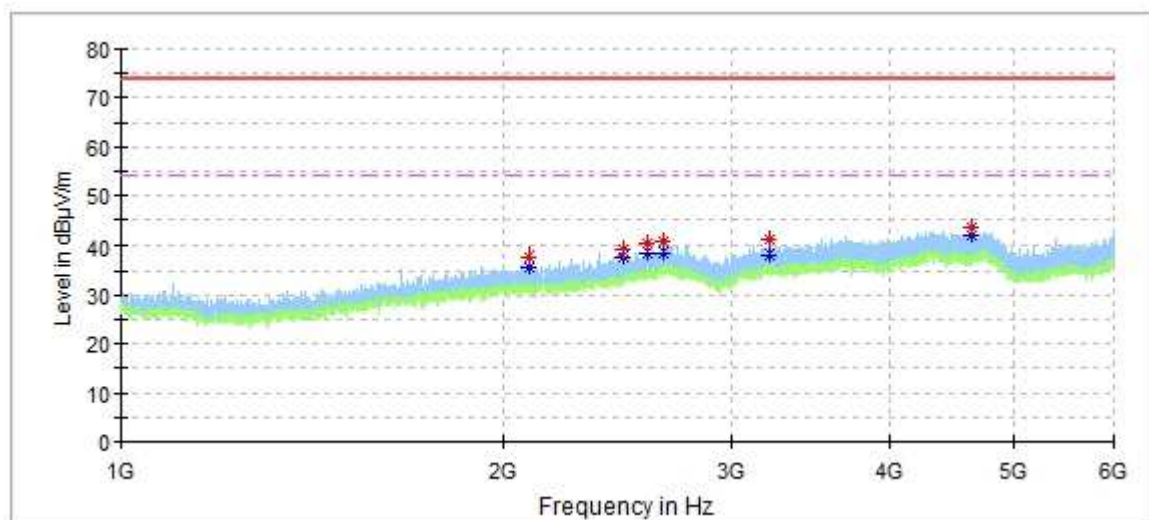
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.970000	19.39	30.00	10.61	400.0	H	29.0	-12.0
132.766111	19.23	33.50	14.27	400.0	H	186.0	-17.4
847.979444	28.97	36.00	7.03	200.0	V	134.0	0.4
861.505556	28.21	36.00	7.79	100.0	H	0.0	-4.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.200000	16.47	30.00	13.53	1000.0	120.000	150.0	V	27.0	-4.3
138.418889	12.23	33.50	21.27	1000.0	120.000	150.0	V	329.0	-10.8

EUT Information

EUT Name:	Lenovo Legion S600 Gaming Station
Model	L01WC001-CS-H
Test Mode:	Full load (wireless charging + earphone charging + USB disk)
Test Voltage:	AC 120V/60Hz
Test By:	Mac Xie
Review By:	Gary Chen
Remark:	3m Chamber

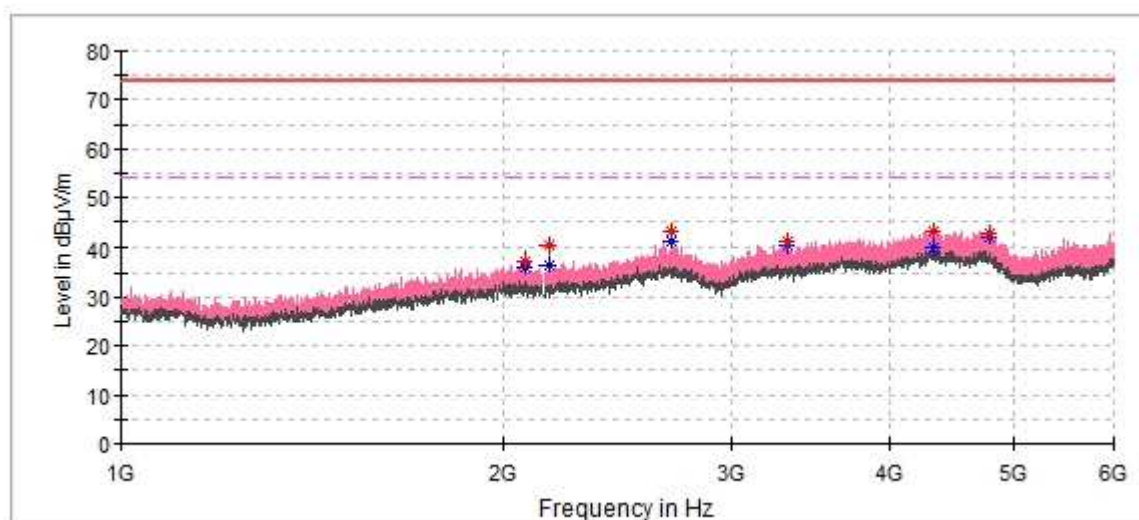


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2096.000000	---	35.83	54.00	18.17	200.0	H	0.0	-8
2096.000000	37.89	---	74.00	36.11	200.0	H	0.0	-8
2470.500000	---	37.73	54.00	16.27	200.0	H	0.0	-5
2470.500000	39.10	---	74.00	34.90	200.0	H	0.0	-5
2580.000000	---	38.72	54.00	15.28	200.0	H	136.0	-4
2580.000000	40.12	---	74.00	33.88	200.0	H	136.0	-4
2659.000000	---	38.48	54.00	15.52	200.0	H	140.0	-3
2659.000000	40.53	---	74.00	33.47	200.0	H	140.0	-3
3218.500000	---	37.97	54.00	16.03	200.0	H	237.0	-2
3219.000000	41.03	---	74.00	32.97	200.0	H	237.0	-2
4634.000000	---	41.86	54.00	12.14	100.0	H	3.0	2
4634.000000	43.46	---	74.00	30.54	100.0	H	3.0	2

EUT Information

EUT Name:	Lenovo Legion S600 Gaming Station
Model	L01WC001-CS-H
Test Mode:	Full load (wireless charging + earphone charging + USB disk)
Test Voltage:	AC 120V/60Hz
Test By:	Mac Xie
Review By:	Gary Chen
Remark:	3m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2075.000000	37.18	---	74.00	36.82	100.0	V	99.0	-7
2075.000000	---	36.01	54.00	17.99	100.0	V	99.0	-7
2161.500000	---	36.38	54.00	17.62	200.0	V	188.0	-8
2161.500000	40.35	---	74.00	33.65	200.0	V	188.0	-8
2696.000000	---	40.98	54.00	13.02	200.0	V	160.0	-3
2696.000000	43.17	---	74.00	30.83	200.0	V	160.0	-3
3327.000000	41.00	---	74.00	33.00	100.0	V	264.0	-2
3327.000000	---	40.07	54.00	13.93	100.0	V	264.0	-2
4328.500000	---	39.75	54.00	14.25	200.0	V	28.0	2
4329.000000	43.28	---	74.00	30.72	200.0	V	226.0	2
4800.000000	42.69	---	74.00	31.31	100.0	V	0.0	2
4800.500000	---	41.66	54.00	12.34	100.0	V	0.0	2

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:
Pass
Test Specification

Test standard

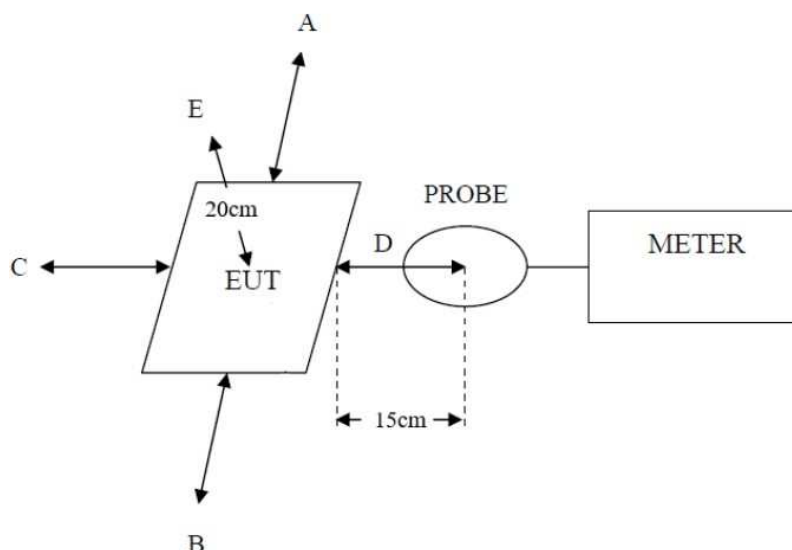
: CFR47 FCC Part 2: Subpart J Section 1.1310
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Setup:



Test Result:

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Device working at the maximum power	0.1960	0.2768	0.1896	0.1928	0.2444	0.815	1.63	Pass

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