# **FCC RADIO TEST REPORT**

FCC ID : 2AJN7-TP00110A Equipment : Notebook Computer

Brand Name : Lenovo Model Name : TP00110A

Applicant : LC Future Center Limited Taiwan Branch

7F., No. 780, Bei'an Rd., Zhongshan Dist.,

Report No.: FG931313-02D

Taipei City 104, Taiwan (R.O.C.)

Manufacturer : LC Future Center Limited Taiwan Branch

7F., No. 780, Bei'an Rd., Zhongshan Dist.,

Taipei City 104, Taiwan (R.O.C.)

Standard : FCC 47 CFR Part 2, Part 27(D)

Equipment: Fibocom L850-GL and Intel 9560D2W tested inside of Lenovo Notebook Computer.

The product was received on Mar. 13, 2019 and testing was started from Apr. 05, 2019 and completed on Apr. 08, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP or any agency of government.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of We, Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China

NVLAP LAB CODE 600155-0

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E-mail : Alex@sporton.com.tw Report Version : 01

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# History of this test report

Report No.: FG931313-02D

Report No.	Version	Description	Issued Date
FG931313-02D	01	Initial issue of report	May 03, 2019

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power and Effective Isotropic Radiated Power	Reporting only	-
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 0.28 dB at 11528.000 MHz

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Jason Jia

Report Producer: Echo Wu

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# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature						
Equipment	Notebook Computer					
Brand Name	Lenovo					
Model Name	TP00110A					
FCC ID	2AJN7-TP00110A					
Sample 1	EUT with Amphenol Antenna					
Sample 2	EUT with SPEEDWIRE Antenna					
	WCDMA/HSPA/LTE/GNSS					
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40					
EOT Supports Radios application	WLAN 11ac VHT20/VHT40/VHT80/VHT160					
	Bluetooth BR/EDR/LE					
EUT Stage	Production Unit					

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#### Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Fibocom L850-GL and Intel 9560D2W tested inside of Lenovo Notebook Computer.
- 3. All test items were performed with Sample 1.

Antenna Information										
WWAN	WWAN 3G&LTE (dBi)									
A 4	Manufacturer	Amphenol	Peak gain	2.30						
Antenna 1	Part number	LX9865-16-000-C	Туре	PIFA						
A t	Manufacturer	SPEEDWIRE	Peak gain	2.07						
Antenna 2	Part number	F.0G.ZV-0008-001 -00	Туре	PIFA						

## 1.2 Product Specification of Equipment Under Test

Product Feature						
Tx Frequency	LTE Band 30 : 2307.5 MHz ~2312.5 MHz					
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	LTE Band 30 : 22.40 dBm					
Type of Modulation	QPSK / 16QAM					

#### 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

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## 1.4 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

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Test Site	Sporton International (Kunshan) Inc.							
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China							
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.						
	03CH06-KS							
Test Engineer	Lucas Xu and Level Zhao	630927						
Temperature	25.0~25.2 °C							
Relative Humidity	48~57 %							

Note: The test site complies with ANSI C63.4 2014 requirement.

## 1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26-2015
- 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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# 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

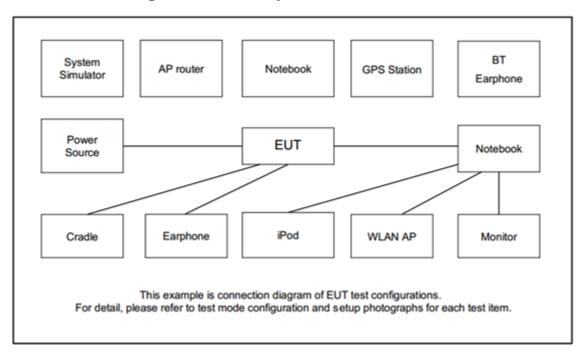
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z for table mode and notebook mode. The worst cases (Y plane) were recorded in this report.

			Bandwidth (MHz)			Modulation			RB#			Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output Power	30	-	-	v	v	-	•	٧	v	v	v	v	v	v	v	v
Radiated Spurious	30		Worst Ca				Vorst Cas	st Case				v	v	v		
Emission																
		The mark "v" means that this configuration is chosen for testing  The mark "-" means that this bandwidth is not supported.														
Remark	<ol> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test un different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol>									nder						
	4. All	the radia	ated tes	t cases	were	perforn	ned wit	h Adapter	1.							

## 2.2 Connection Diagram of Test System



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# 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m

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# 2.4 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List										
BW [MHz] Channel/Frequency(MHz) Lowest Middle Highest										
10	Channel	-	27710	-						
10	Frequency	-	2310	-						
_	Channel	27685	27710	27735						
5	Frequency	2307.5	2310	2312.5						

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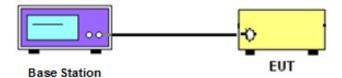
# 3 Conducted Test Items

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

### 3.1.1 Test Setup

### 3.1.2 Conducted Output Power



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#### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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### 3.2 Conducted Output Power Measurement and EIRP Measurement

# 3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The EIRP of mobile transmitters must not exceed 0.25 Watts for LTE Band 30.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

 $L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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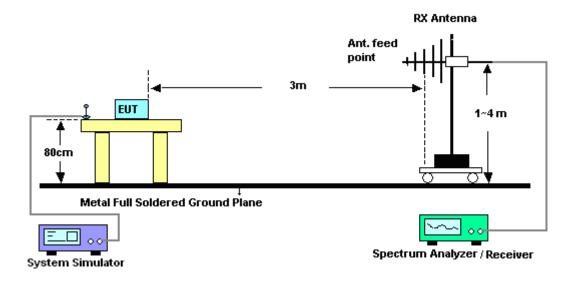
#### **Radiated Test Items** 4

## 4.1 Measuring Instruments

See list of measuring instruments of this test report.

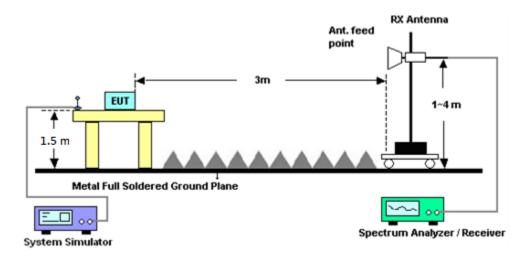
#### 4.1.1 Test Setup

#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

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### 4.2 Radiated Spurious Emission Measurement

#### 4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

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The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the 6. record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

```
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
ERP (dBm) = EIRP - 2.15
```

The RF fundamental frequency should be excluded against the limit line in the operating 1. frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [70 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
- = -40dBm.

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# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	LTE Base Station Anritsu MT88200		KS141204 JCGS01	6201432836	Jan. 14, 2019	Apr. 05, 2019~ Apr. 08. 2019	Jan. 13, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY553705 28	10Hz-44GHz	Oct. 10, 2018	Apr. 05, 2019~ Apr. 08. 2019	Oct. 09, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	30MHz-1GHz	Apr. 19, 2018	Apr. 05, 2019~ Apr. 08. 2019	Apr. 18, 2019	Radiation (03CH06-KS)
Broad-Band Horn Antenna	Schwarzbeck MESS-ELEKT RONIK	BBHA9120D	01648	1GHz~18GHz	Jan. 27, 2019	Apr. 05, 2019~ Apr. 08. 2019	Jan. 26, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz Gain 32dB	Aug. 03, 2018	Apr. 05, 2019~ Apr. 08. 2019	Aug. 02, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	100MHz-18GHz Gain 55dB	Apr. 17, 2018	Apr. 05, 2019~ Apr. 08. 2019	Apr. 16, 2019	Radiation (03CH06-KS)
Preamplifier	Keysight	83017A	MY532703 19	0.5G-26.5GHz	Oct. 12, 2018	Apr. 05, 2019~ Apr. 08. 2019	Oct. 11, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA1702 49	15-40GHz	Feb. 07, 2019	Apr. 05, 2019~ Apr. 08. 2019	Feb. 06, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35- HG	1887435	18~40GHz,45d B Min	Feb. 08, 2019	Apr. 05, 2019~ Apr. 08. 2019	Feb. 07, 2020	Radiation (03CH06-KS)
Radio communication analyzer	Anritsu	MT8820C	KS141204 JCGS01	6201432836	Jan. 14, 2019	Apr. 05, 2019~ Apr. 08. 2019	Jan. 13, 2020	Radiation (03CH06-KS)

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#### **Uncertainty of Evaluation** 6

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.50
Confidence of 95% (U = 2Uc(y))	2100

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#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	2.10
Confidence of 95% (U = 2Uc(y))	2.10

#### **Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

Measuring Uncertainty for a Level of	2.40
Confidence of 95% (U = 2Uc(y))	2.10

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# **Appendix A. Test Results of Conducted Test**

# Conducted Output Power(Average power)

LTE Band 30 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
10	1	0			22.40			
10	1	25			22.31			
10	1	49			22.36			
10	25	0	QPSK		21.35			
10	25	12			21.26			
10	25	25			21.32			
10	50	0			21.38			
10	1	0		-	21.58	-		
10	1	25			21.54			
10	1	49			21.54			
10	25	0	16-QAM		20.35			
10	25	12			20.31			
10	25	25			20.38			
10	50	0			20.43			
5	1	0		22.30	22.28	22.29		
5	1	12		22.31	22.24	22.29		
5	1	24		22.29	22.36	22.28		
5	12	0	QPSK	21.41	21.27	21.37		
5	12	7		21.34	21.14	21.39		
5	12	13		21.33	21.25	21.33		
5	25	0		21.46	21.23	21.49		
5	1	0		21.49	21.58	21.51		
5	1	12		21.46	21.55	21.48		
5	1	24		21.43	21.36	21.38		
5	12	0	16-QAM	20.44	20.32	20.40		
5	12	7		20.36	20.29	20.40		
5	12	13		20.37	20.26	20.34		
5	25	0		20.47	20.31	20.35		

# **Appendix B. Test Results of EIRP and Radiated Test**

## EIRP

<Reporting Only>

LTE Band 30 / 5MHz (Average) (GT - LC = 0.93 dB)										
Channel	Mode	RB		Cond	ucted	EIRP				
Chamilei	Wiode	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)			
Lowest	QPSK	1	24	22.29	0.1694	23.22	0.2099			
Middle		1	24	22.36	0.1722	23.29	0.2133			
Highest		1	24	22.28	0.1690	23.21	0.2094			
Lowest		1	0	21.49	0.1409	22.42	0.1746			
Middle	16QAM	1	0	21.58	0.1439	22.51	0.1782			
Highest		1	0	21.51	0.1416	22.44	0.1754			
Limit	EIRP < 0.25W			Re	sult	PA	SS			

LTE Band 30 / 10MHz (Average) (GT - LC = 0.93 dB)										
Channel	Mode	RB		Cond	ucted	EIRP				
Channel		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)			
Lowest		1	-	1	-	-	-			
Middle	QPSK	1	0	22.40	0.1738	23.33	0.2153			
Highest		-	-	-	-	-	-			
Lowest		-	-	-	-	-	-			
Middle	16QAM	1	0	21.58	0.1439	22.51	0.1782			
Highest		-	-	-	-	-	-			
Limit	EIRP < 0	EIRP < 0.25W			sult	PA	SS			

# **Radiated Spurious Emission**

# LTE Band 30

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	LTE Band 30/ 5MHz / QPSK											
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)				
	4612	-49.50	-40	-9.50	-57.68	2.12	10.30	Н				
	6916	-48.21	-40	-8.21	-57.45	2.47	11.71	Н				
	9220	-55.39	-40	-15.39	-65.49	2.81	12.91	Н				
	11528	-40.28	-40	-0.28	-50.32	3.60	13.64	Н				
	13830	-57.16	-40	-17.16	-67.63	3.83	14.30	Н				
Lowest								Н				
Lowest	4612	-52.28	-40	-12.28	-60.46	2.12	10.30	V				
	6916	-51.83	-40	-11.83	-61.07	2.47	11.71	V				
	9220	-55.42	-40	-15.42	-65.52	2.81	12.91	V				
	11528	-44.48	-40	-4.48	-54.52	3.60	13.64	V				
	13848	-59.87	-40	-19.87	-70.34	3.83	14.30	V				
								V				
	4616	-48.32	-40	-8.32	-56.50	2.12	10.30	Н				
	6924	-47.76	-40	-7.76	-57.00	2.47	11.71	Н				
	9232	-55.15	-40	-15.15	-65.25	2.81	12.91	Н				
	11540	-46.41	-40	-6.41	-56.45	3.60	13.64	Н				
	13848	-57.98	-40	-17.98	-68.45	3.83	14.30	Н				
Middle								Н				
ivildale	4616	-49.53	-40	-9.53	-57.71	2.12	10.30	V				
	6924	-53.05	-40	-13.05	-62.29	2.47	11.71	V				
	9232	-58.13	-40	-18.13	-68.23	2.81	12.91	V				
	11540	-48.59	-40	-8.59	-58.63	3.60	13.64	V				
	13848	-58.21	-40	-18.21	-68.68	3.83	14.30	V				
								V				

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	4620	-45.56	-40	-5.56	-53.74	2.12	10.30	Н
	6932	-48.22	-40	-8.22	-57.46	2.47	11.71	Н
	9240	-56.80	-40	-16.80	-66.90	2.81	12.91	Н
	11552	-46.12	-40	-6.12	-56.16	3.60	13.64	Н
	13860	-57.86	-40	-17.86	-68.33	3.83	14.30	Н
								Н
UPaland								Н
Highest	4620	-47.72	-40	-7.72	-55.90	2.12	10.30	V
	6932	-48.69	-40	-8.69	-57.93	2.47	11.71	V
	9240	-59.31	-40	-19.31	-69.41	2.81	12.91	V
	11552	-48.07	-40	-8.07	-58.11	3.60	13.64	V
	13860	-57.83	-40	-17.83	-68.30	3.83	14.30	V
								V
								V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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LTE Band 30/ 10MHz / QPSK S.G. TX Cable **TX Antenna** Over EIRP **Polarization** Frequency Limit Channel Limit Power loss Gain (MHz) (dBm) (dBm) (H/V) (dBm) (dB) (dB) (dBi) 4612 -50.64 -40 -10.64 -58.82 2.12 10.30 Η 6916 -49.03 -40 -9.03 -58.27 2.47 11.71 Η Н 9220 -53.69 -40 -13.69 -63.79 2.81 12.91 11528 -42.50 -40 -2.50 -52.54 3.60 13.64 Η 13836 -58.01 -40 -18.01 -68.48 3.83 14.30 Н Н Н Middle ٧ 4612 -50.01 -40 -10.01 -58.19 10.30 2.12 ٧ 6916 -49.79 -40 -9.79 2.47 11.71 -59.03 9224 -56.54 -40 -16.54 -66.64 2.81 12.91 ٧ ٧ 11528 -46.10 -40 -6.10 -56.14 3.60 13.64 ٧ ٧ ٧

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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