

Report No.: FG042858A



# FCC RADIO TEST REPORT

FCC ID : PU5-TP00099D

Equipment : Notebook Computer

Brand Name : Lenovo Model Name : TP00099D

Applicant : Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih

Dist, New Taipei City 221, Taiwan

Manufacturer : Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih

Dist, New Taipei City 221, Taiwan

Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

The product was received on May 07, 2020 and testing was started from May 26, 2020 and completed on Jun. 05, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 TAF or any agency of government.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan

Report Version

: 01

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# History of this test report

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Report No.	Version	Description	Issued Date
FG042858A	01	Initial issue of report	Jun. 15, 2020

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### **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
	§2.1046	Conducted Output Power			
	§22.913 (a)(2)	Effective Radiated Power (WCDMA Band V)			
3.2	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)	Pass	-	
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)			
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note	
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth	Occupied Bandwidth -		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement	-	See Note	
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission	-	See Note	
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note	
4.4	§2.1053 S22.917 (a) Field Strength of Spurious Radiation		Pass	Under limit 27.46 dB at 5718.000 MHz	

**Note:** The module (Model: L860-GL) makes no difference after verifying output power, this report reuses test data from the module report.

#### **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: Wii Chang Report Producer: Lucy 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	TP00099D
FCC ID	PU5-TP00099D
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS
EUT Stage	Production Unit

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#### Remark:

- 1. The above EUTs information was declared by manufacturer.
- 2. Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

	Antenna Information								
WWAN	3G&LTE (dBi)								
Antenna	Manufacturer	WNC	Peak gain	1.66					
Antenna	Part number	025.901ML.0001	Туре	PIFA					

## 1.2 Product Specification of Equipment Under Test

Standards	Standards-related Product Specification					
	WCDMA:					
Ty Francisco	Band V:	826.4 MHz ~ 846.6 MHz				
Tx Frequency	Band II:	1852.4 MHz ~ 1907.6 MHz				
	Band IV:	1712.4 MHz ~ 1752.6 MHz				
	WCDMA:					
Py Fraguency	Band V:	871.4 MHz ~ 891.6 MHz				
Rx Frequency	Band II:	1932.4 MHz ~ 1987.6 MHz				
	Band IV:	2112.4 MHz ~ 2152.6 MHz				
	WCDMA:					
Maximum Output Bawarta Antanna	Band V:	23.78 dBm				
Maximum Output Power to Antenna	Band II:	24.15 dBm				
	Band IV:	24.19 dBm				
	WCDMA: B	BPSK (Uplink)				
Type of Modulation		QAM (Downlink)				
	HSUPA: QPSK (Uplink)					

### 1.3 Modification of EUT

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

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### 1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan
Test Site No.	Sporton Site No.
rest Site No.	TH05-HY
Test Engineer	Jacky Wang
Temperature	<b>23~25</b> ℃
Relative Humidity	52~55%

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

Test Site SPORTON INTERNATIONAL INC. EMC & Wireless Communication Laboratory				
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan			
Toot Cito No	Sporton Site No.			
Test Site No.	03CH12-HY			
Test Engineer	JC Liang			
Temperature	<b>24~26</b> °ℂ			
Relative Humidity	65~70%			

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

FCC Designation No.: TW1190 and TW0007

## 1.5 Applicable Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

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Radiated emissions were investigated as following frequency range:

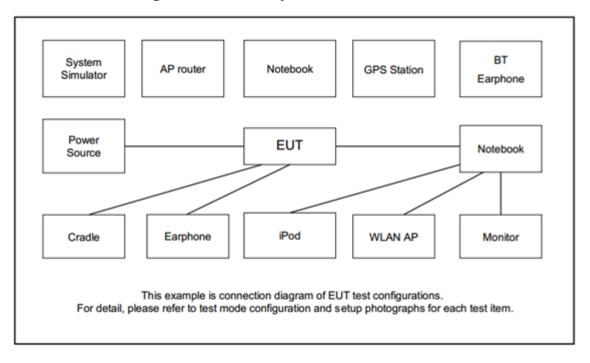
30 MHz to 19100 MHz for WCDMA Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes				
Band	Radiated TCs			
WCDMA Band II	RMC 12.2Kbps Link			

### 2.2 Connection Diagram of Test System



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## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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## 2.4 Frequency List of Low/Middle/High Channels

Frequency List						
Band Channel/Frequency(MHz) Lowest Middle Highe						
WCDMA	Channel	9262	9400	9538		
Band II	Frequency	1852.4	1880.0	1907.6		

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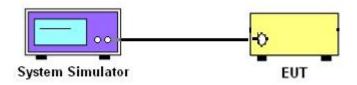
### 3 Conducted Test Result

## 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 and ERP/EIRP

#### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

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

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The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

EIRP =  $P_T + G_T - L_C$ , ERP = EIRP -2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = 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 system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

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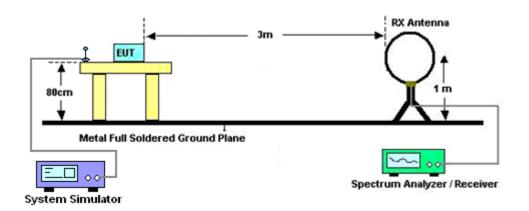
### 4 Radiated Test Items

## 4.1 Measuring Instruments

See list of measuring instruments of this test report.

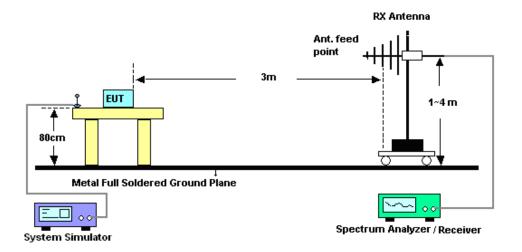
### 4.2 Test Setup

#### For radiated emissions below 30MHz



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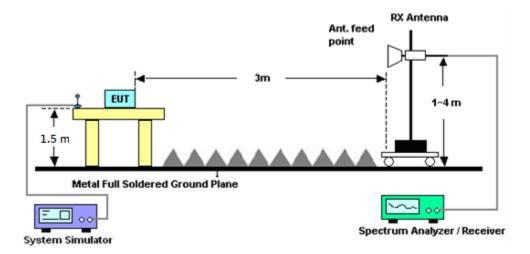
#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

#### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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### 4.4 Field Strength of Spurious Radiation Measurement

#### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

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 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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#### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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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	Anritsu	MT8820C	6201107509	-	Jul. 03, 2019	May 26, 2020	Jul. 02, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schw arz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	May 30, 2020~ Jun. 05, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	May 30, 2020~ Jun. 05, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 14, 2019	May 30, 2020~ Jun. 05, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	May 30, 2020~ Jun. 05, 2020	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz ~ 40GHz	Dec. 10, 2019	May 30, 2020~ Jun. 05, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917098 0	18GHz ~ 40GHz	Jan. 10, 2019	May 30, 2020~ Jun. 05, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	May 30, 2020~ Jun. 05, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Pow er	JPA00101800- 30-10P	1601180002	1GHz~18GHz	Feb. 07, 2020	May 30, 2020~ Jun. 05, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 30, 2020~ Jun. 05, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Dec. 20, 2019	May 30, 2020~ Jun. 05, 2020	Dec. 19, 2020	Radiation (03CH12-HY)
Signal Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 12, 2020	May 30, 2020~ Jun. 05, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
Signal Generator	Rohde & Schw arz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	May 30, 2020~ Jun. 05, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Dec. 12, 2019	May 30, 2020~ Jun. 05, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	May 30, 2020~ Jun. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 25, 2020	May 30, 2020~ Jun. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 30, 2020~ Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 30, 2020~ Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 30, 2020~ Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Softw are	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 30, 2020~ Jun. 05, 2020	N/A	Radiation (03CH12-HY)

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## 6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.24
Confidence of 95% (U = 2Uc(y))	3.24

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

Measuring Uncertainty for a Level of	3.62
Confidence of 95% (U = 2Uc(y))	3.02

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

Measuring Uncertainty for a Level of	4.06
Confidence of 95% (U = 2Uc(y))	4.00

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

## Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)								
Band WCDMA Band V WCDMA Band II								
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6		
RMC 12.2K	23.71	23.78	23.77	24.08	24.13	24.15		

Conducted Power (*Unit: dBm)						
Band	Band WCDMA Band IV					
Channel	1312 1413 1513					
Frequency	1712.4	1732.6	1752.6			
RMC 12.2K	24.19	23.96	23.99			

## Appendix B. Test Results of ERP/EIRP and Radiated Test

## **ERP/EIRP**

Channel	Mode	Cond	ucted	ERP		
	WIOGE	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)	
Lowest	WCDMA Band V	23.71	0.2350	19.99	0.0998	
Middle	RMC 12.2Kbps	23.78	0.2388	20.06	0.1014	
Highest	GT - LC = -1.57 dB	23.77	0.2382	20.05	0.1012	
Limit	ERP < 7W	Re	sult	PA	SS	

Channel	Mode	Cond	ucted	EIRP		
	IVIOGE	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band II	24.08	0.2559	22.54	0.1795	
Middle	RMC 12.2Kbps	24.13	0.2588	22.59	0.1816	
Highest	GT - LC = -1.54 dB	24.15	0.2600	22.61	0.1824	
Limit	EIRP < 2W	Re	sult	PA	SS	

Channel	Mode	Cond	ucted	EIRP		
	Wiode	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band IV	24.19	0.2624	22.87	0.1936	
Middle	RMC 12.2Kbps	23.96	0.2489	22.64	0.1837	
Highest	GT - LC = -1.32 dB	23.99	0.2506	22.67	0.1849	
Limit	EIRP < 1W	Re	sult	PA	SS	

# **Radiated Spurious Emission**

## **WCDMA 1900**

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WCDMA 1900									
Channel	Frequency (MHz)	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3702	-45.23	-13	-32.23	-67.99	-56.44	1.41	12.62	Н
	5562	-41.98	-13	-28.98	-69.67	-53.54	1.74	13.30	Н
	7404	-43.79	-13	-30.79	-74.71	-53.11	1.94	11.25	Н
Lowest									Н
Lowest	3702	-43.96	-13	-30.96	-66.87	-55.17	1.41	12.62	V
	5562	-42.89	-13	-29.89	-70.13	-54.45	1.74	13.30	V
	7404	-43.81	-13	-30.81	-74.58	-53.13	1.94	11.25	V
									V
	3756	-46.24	-13	-33.24	-69.18	-57.47	1.43	12.65	Н
	5640	-41.83	-13	-28.83	-69.55	-53.40	1.73	13.30	Н
	7512	-44.19	-13	-31.19	-74.55	-53.30	1.99	11.10	Н
NAC-J-II-									Н
Middle	3756	-43.98	-13	-30.98	-67.14	-55.21	1.43	12.65	V
	5640	-42.96	-13	-29.96	-70.27	-54.53	1.73	13.30	V
	7512	-44.46	-13	-31.46	-74.79	-53.57	1.99	11.10	V
									V
	3816	-46.01	-13	-33.01	-69.16	-57.26	1.44	12.69	Н
	5718	-40.46	-13	-27.46	-68.52	-52.03	1.73	13.30	Н
	7632	-44.40	-13	-31.40	-74.24	-53.52	2.01	11.13	Н
l Baland									Н
Highest	3816	-42.15	-13	-29.15	-65.54	-53.40	1.44	12.69	V
	5718	-41.61	-13	-28.61	-69.06	-53.18	1.73	13.30	V
	7632	-44.57	-13	-31.57	-74.32	-53.69	2.01	11.13	V
									V

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

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