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Page Number

# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00128A **Equipment** : Notebook Computer

**Brand Name** : Lenovo : TP00128A **Model Name** 

**Applicant** : LC Future Center Limited Taiwan Branch

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

Taipei City 104, Taiwan

Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.

> No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics &

Technology Development Area, Anhui, CHINA

Standard : FCC 47 CFR Part 2, and 90(S)

Equipment: Quectel EM120R-GL tested inside of Lenovo Notebook Computer.

The product was received on Jun. 03, 2021 and testing was started from Jun. 26, 2021 and completed on Jun. 30, 2021. We, Sporton International Inc. Wensan 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 test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Win

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan

FAX: 886-3-327-0855 Issued Date : Oct. 20, 2021 E-mail: Alex@sporton.com.tw Report Version : 02

TEL: 0800-800005

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Report No. : FG0N2652-01E

Report Version : 02

# History of this test report

Report No. : FG0N2652-01E

Report No.	Version	Description	Issued Date
FG0N2652-01E	01	Initial issue of report	Sep. 29, 2021
FG0N2652-01E	02	<ol> <li>Revise Product Feature of Equipment Under Test</li> <li>Revise Antenna Information</li> </ol>	Oct. 20, 2021

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## **Summary of Test Result**

Report No.: FG0N2652-01E

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Not Required	-
-	-	Peak-to-Average Ratio	Not Required	-
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Not Required	-
-	§2.1051 §90.691	Emission masks – In-band emissions	Not Required	-
-	§2.1051 §90.691	Emission masks – Out of band emissions	Not Required	-
-	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	Not Required	-
3.1	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 40.95 dB at 1639.000 MHz

#### Note:

- Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by adding antenna. All the test cases were performed on original report which can be referred to Sporton Report Number FG0N2652E. Based on the original report, the test cases were verified.

#### **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: Sheng Kuo Report Producer: Cindy Liu

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## 1 General Description

## 1.1 Feature of Equipment Under Test

Product Feature						
Equipment	Notebook Computer					
Brand Name	Lenovo					
Model Name	TP00128A					
FCC ID	2AJN7-TP00128A					
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS/NFC/UWB					
EUT Stage	Production Unit					

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#### Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Quectel EM120R-GL tested inside of Lenovo Notebook Computer.

WWAN Antenna Information							
Main Antonno	Manufacturer	JYT/NVC	Peak gain (dBi)	-2.02			
Main Antenna	Part number	JYAAE0154HR	Туре	PIFA			

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	LTE Band 26: 814.7 ~ 823.3 MHz						
Rx Frequency	LTE Band 26: 859.7 ~ 868.3 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM (Downlink only)						

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### 1.3 Modification of EUT

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

### 1.4 Testing Site

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan			
Test Site No.	Sporton Site No.			
rest site No.	03CH11-HY			
Test Engineer	Harvey Guo, Fu Chen, and Troye Hsieh			
Temperature	18.1~23.1℃			
Relative Humidity	55.3~69.9%			

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

FCC Designation No.: TW3786

### 1.5 Applied Standards

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

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

#### Remark:

- 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

During all testing, EUT is in link mode with base station emulator at maximum power level.

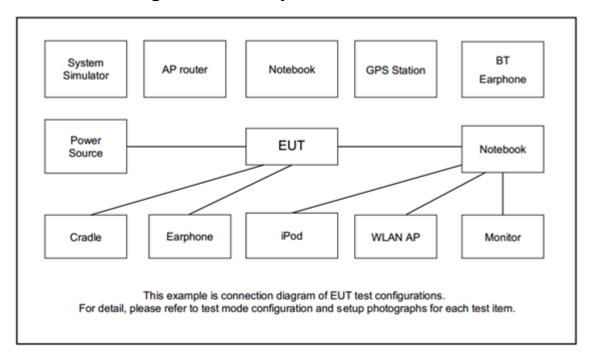
The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Z plane as worst plane.

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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted	Donal		Bandwidth (MHz)			Modulation			RB#		Test Channel					
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	Н
Radiated																
Spurious	26			V	v	V	-	v			٧			V	V	v
Emission																
	1. Tł	ne mar	k " <b>v</b> "	means	that t	his cor	nfigura	tion is cho	sen for test	ing						
	2. Tł	ne mar	k "-"m	eans t	hat thi	s band	lwidth	is not supp	orted.							
Remark 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for p						3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP							ERP			
	over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency															
	spectrum which falls within part 22 also complies.															

### 2.2 Connection Diagram of Test System



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# 2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	and Name   Model No.		Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	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

LTE Band 26 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest				
45	Channel	26765	-	-				
15	Frequency	821.5	-	-				
40	Channel	-	26740	-				
10	Frequency	-	819	-				
5	Channel	26715	26740	26765				
5	Frequency	816.5	819	821.5				
3	Channel	26705	26740	26775				
3	Frequency	815.5	819	822.5				
1.4	Channel	26697	26740	26783				
1.4	Frequency	814.7	819	823.3				

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#### 3 Radiated Test Items

### 3.1 Field Strength of Spurious Radiation Measurement

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

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth 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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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+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.1.2 Test Procedures

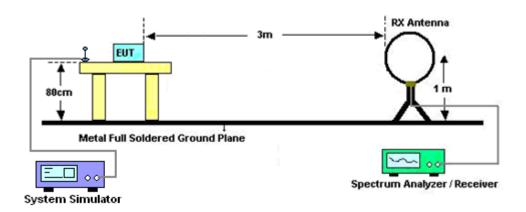
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 3. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 4. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 5. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the 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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### 3.1.3 Test Setup

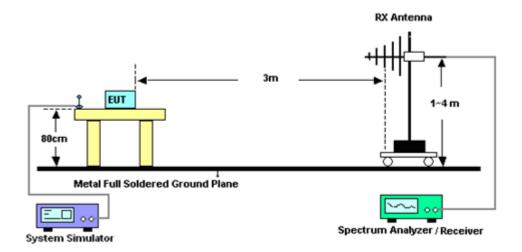
#### For radiated test below 30MHz



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

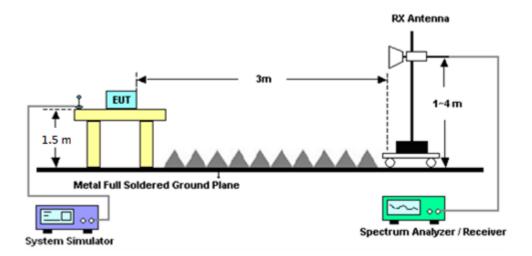
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#### For radiated test above 1GHz



### 3.1.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix A.

#### 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 adequate comparison measurement 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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#### **List of Measuring Equipment** 4

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jun. 26, 2021~ Jun. 30, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 03, 2020	Jun. 26, 2021~ Jun. 30, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	May 18, 2021	Jun. 26, 2021~ Jun. 30, 2021	May 17, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Jun. 26, 2021~ Jun. 30, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Jun. 26, 2021~ Jun. 30, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Jun. 26, 2021~ Jun. 30, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	Jun. 26, 2021~ Jun. 30, 2021	Oct. 26, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Jun. 26, 2021~ Jun. 30, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Jun. 26, 2021~ Jun. 30, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 14, 2020	Jun. 26, 2021~ Jun. 30, 2021	Dec. 13, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 26, 2021~ Jun. 30, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Jun. 26, 2021~ Jun. 30, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 26, 2021~ Jun. 30, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 26, 2021~ Jun. 30, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Jun. 26, 2021~ Jun. 30, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Jun. 26, 2021~ Jun. 30, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Jun. 26, 2021~ Jun. 30, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Jun. 26, 2021~ Jun. 30, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900 -1000-15000- 60SS	SN12	1GHz High Pass Filter	Nov. 05, 2020	Jun. 26, 2021~ Jun. 30, 2021	Nov. 04, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	Jun. 26, 2021~ Jun. 30, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Jun. 26, 2021~ Jun. 30, 2021	Nov. 17, 2021	Radiation (03CH11-HY)

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#### **Uncertainty of Evaluation** 5

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

Measuring Uncertainty for a Level of	3.29 dB
Confidence of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56 dB

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

# Part 90S\_LTE Band 26

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LTE Band 26 / 5MHz / QPSK										
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	1629	-57.93	-13	-44.93	-67.8	-64.84	0.52	9.58	Н	
	2443	-59.86	-13	-46.86	-73.56	-67.82	0.64	10.75	Н	
	3257	-58.22	-13	-45.22	-74.63	-67.19	0.75	11.87	Н	
									Н	
									Н	
Lowest									Н	
Lowest	1629	-58.04	-13	-45.04	-67.72	-64.95	0.52	9.58	V	
	2443	-59.93	-13	-46.93	-74.23	-67.89	0.64	10.75	V	
	3257	-58.56	-13	-45.56	-75.11	-67.53	0.75	11.87	V	
									V	
									V	
									V	
	1634	-55.89	-13	-42.89	-65.76	-62.81	0.52	9.59	Н	
	2451	-60.20	-13	-47.20	-73.87	-68.17	0.65	10.76	Н	
	3267	-58.35	-13	-45.35	-74.76	-67.35	0.75	11.90	Н	
									Н	
									Н	
									Н	
Middle									Н	
ivildale	1634	-56.48	-13	-43.48	-66.17	-63.4	0.52	9.59	V	
	2451	-59.45	-13	-46.45	-73.71	-67.42	0.65	10.76	V	
	3267	-58.43	-13	-45.43	-74.96	-67.43	0.75	11.90	V	
									V	
									V	
									V	
									V	

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	LTE Band 26 / 5MHz / QPSK										
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1639	-54.02	-13	-41.02	-64.04	-60.95	0.52	9.61	Н		
	2458	-60.40	-13	-47.40	-74.07	-68.37	0.65	10.77	Н		
	3277	-58.21	-13	-45.21	-74.65	-67.24	0.75	11.93	Н		
									Н		
									Н		
									Н		
High oot									Н		
Highest	1639	-53.95	-13	-40.95	-63.66	-60.88	0.52	9.61	V		
	2458	-59.69	-13	-46.69	-73.92	-67.66	0.65	10.77	V		
	3277	-58.45	-13	-45.45	-74.95	-67.48	0.75	11.93	V		
									V		
									V		
									V		
									V		

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

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	LTE Band 26 / 10MHz / QPSK										
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1629	-57.14	-13	-44.14	-67.01	-64.05	0.52	9.58	Н		
	2444	-60.43	-13	-47.43	-74.13	-68.39	0.64	10.76	Н		
	3258	-58.51	-13	-45.51	-74.92	-67.48	0.75	11.87	Н		
									Н		
									Н		
									Н		
Middle									Н		
Middle	1629	-56.93	-13	-43.93	66.61	-63.84	0.52	9.58	V		
	2444	-59.78	-13	-46.78	-74.07	-67.74	0.64	10.76	V		
	3258	-58.29	-13	-45.29	-74.84	-67.26	0.75	11.87	V		
									V		
									V		
									V		
									V		

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

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	LTE Band 26 / 15MHz / QPSK									
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	1630	-56.56	-13	-43.56	-66.43	-63.47	0.52	9.59	Н	
	2445	-59.70	-13	-46.70	-73.4	-67.66	0.64	10.76	Н	
	3259	-58.77	-13	-45.77	-75.18	-67.75	0.75	11.88	Н	
									Н	
									Н	
									Н	
1									Н	
Lowest	1630	-57.58	-13	-44.58	-67.26	-64.49	0.52	9.59	V	
	2445	-59.73	-13	-46.73	-74.02	-67.69	0.64	10.76	V	
	3259	-57.82	-13	-44.82	-74.37	-66.8	0.75	11.88	V	
									V	
									V	
									V	
									V	

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

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