



# FCC RADIO TEST REPORT

FCC ID	:	2AJN7-TP00146BLQ
Equipment	:	Notebook Computer
Brand Name	:	Lenovo
Model Name	:	TP00146BLQ
Applicant	:	LCFC (HeFei) Electronics Technology Co., Ltd. No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics & Technology Development Area, Anhui, CHINA
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, 96

Equipment: Quectel EM160R-GL tested inside of Lenovo Notebook Computer.

The product was received on Oct. 13, 2023 and testing was performed from Oct. 18, 2023 to Oct. 25, 2023 . 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 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.

Lunis Win

Approved by: Louis Wu Sporton International Inc. EMC & Wireless Communications Laboratory

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Report Version	: 02



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# History of this test report

Report No.	Version	Description	Issue Date
FG3O1306B	01	Initial issue of report	Nov. 17, 2023
FG3O1306B	02	Revise model name and Product Feature This report is an updated version, replacing the report issued on Nov. 17, 2023.	Jan. 19, 2024



# **Summary of Test Result**

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	-	See Note
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§2.1049 §96.41	Occupied Bandwidth	-	See Note
-	§2.1051 §96.41	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §96.41	Conducted Spurious Emission	-	See Note
-	§2.1055	Frequency Stability for Temperature & Voltage	-	See Note
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	6.78 dB under the limit at 7102.00 MHz

#### Note:

1. For host device, Radiated Spurious Emission and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.

 For host device, the Conducted Output Power is no difference after compared to module (Model: EM160R-GL)

#### Conformity Assessment Condition:

 The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

# Reviewed by: Sheng Kuo

**Report Producer: Michelle Chen** 

# **1** General Description

# **1.1 Product Feature of Equipment Under Test**

	Product Feature
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00146BLQ
FCC ID	2AJN7-TP00146BLQ
Sample 1	EUT with Luxshare-ICT Antenna
Sample 2	EUT with Speed Taiwan Corporation Antenna
	Brand Name: Intel® Wi-Fi 6E AX211
Integrated WLAN Module	Model Name: AX211D2W
	FCC ID: PD9AX211D2
	Brand Name: Intel® BE200D2W
Integrated WLAN Module	Model Name: BE200D2W
	FCC ID: PD9BE200D2
Integrated NFC Module	Brand Name: Foxconn
	Model Name: T77H747
	WCDMA/HSPA/LTE/GNSS/NFC
	WLAN 11a/b/g/n HT20/HT40
EUT supports Radios application	WLAN 11ac VHT40/VHT80/VHT160
	WLAN 11ax HE20/HE40/HE80/HE160
	WLAN 11be EHT20/ EHT40/EHT80/EHT160/EHT320
	Bluetooth BR/EDR/LE
EUT Stage	Production Unit

#### Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Quectel EM160R-GL tested inside of Lenovo Notebook Computer.

Support band and evaluated information		
Supported band	B48	
Evaluated and Tested band	B48	



TDD band Power Class				
	PC3	PC2		
B48	V	-		

Antenna Information				
Main Antenna	Manufacturer	Luxshare-ICT	Peak gain(dBi)	LTE Band 48 : 0.34
	Part number	DC33001YV10	Туре	PIFA
Main Antenna	Manufacturer	Speed Taiwan Corporation	Peak gain(dBi)	LTE Band 48 : 0.34
	Part number	DC33001YU10	Туре	PIFA

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

### **1.2 Product Specification of Equipment Under Test**

Product Specification is subject to this standard		
Tx Frequency	3552.5 MHz ~ 3697.5 MHz	
Rx Frequency	3552.5 MHz ~ 3697.5 MHz	
Bandwidth	5 MHz / 10 MHz / 15 MHz / 20 MHz	
Maximum Output Power to Antenna	21.34 dBm	
Type of Modulation	QPSK / 16QAM / 64QAM	

### 1.3 Modification of EUT

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



### **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 333		
Test Site No.	Sporton Site No.		
Test Sile No.	TH03-HY		
Test Engineer	HaoEn Zhang		
Temperature (°C)	21.5~23.5		
Relative Humidity (%)	52.4~53.6		
Test Site	Sporton International Inc. Wensan Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,		
Test Site Location	Taoyuan City 333010		
Test Site No.	Sporton Site No.		
Test Site No.	03CH12-HY (TAF Code: 3786)		
Test Engineer	Jesse Fan, Tim Lee and Wilson Wu		
Temperature (°C)	20~25		
Relative Humidity (%)	50~60		
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory		

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

FCC Designation No.: TW1190 and TW3786

### 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
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- 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.

# 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.

For radiated measurement, 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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Modulation Type	Modulation
A	QPSK
В	16QAM
C	64QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B	All	1, Half, Full	L, M, H
EIRP	A, B	All	1, Half, Full	L, M, H
RSE	А	20 MHz or less	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.

2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.

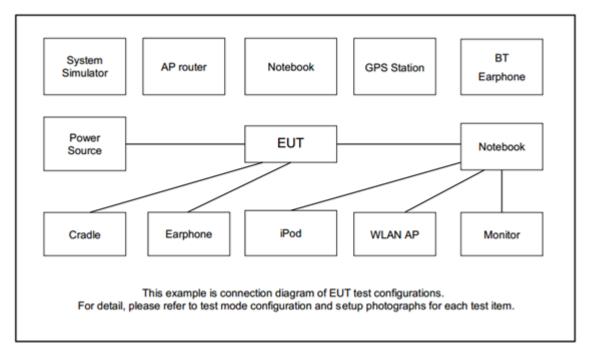
3. During the RSE preliminary test, the standalone mode and charging modes were verified. It is determined that the adapter mode is the worst case for the official test.

4. For modulation of QPSK/16QAM, the maximum power of QPSK is higher than other modulation(64QAM), therefore, according to engineering evaluation, we choose higher power (QPSK/16QAM) to perform all tests and show in the report.

5. All the radiated test cases were performed with Sample 1



### 2.2 Connection Diagram of Test System



### 2.3 Support Unit used in test configuration

ltem	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Google	G019A	N/A	Shielded, 1.2 m	N/A

# 2.4 Frequency List of Low/Middle/High Channels

	LTE Band 48 Ch	annel and Frequen	icy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
20	Frequency		3690.0	
45	Channel	55315	55990	56665
15	Frequency	3557.5	3625.0	3692.5
10	Channel	55290	55990	56690
10	Frequency	3555.0	3625.0	3695.0
F	Channel	55265	55990	56715
5	Frequency	Active      Active<	3625.0	3697.5



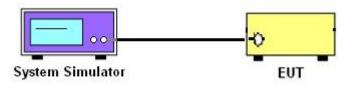
# 3 Conducted Test Items

### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

### 3.1.1 Test Setup

### 3.1.2 Conducted Output Power



### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.2 Conducted Output Power

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

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

### 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.



### 3.3 EIRP

#### 3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

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

Dovico	Maximum EIRP	Maximum PSD
Device	(dBm/10 MHz)	(dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

### 3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.



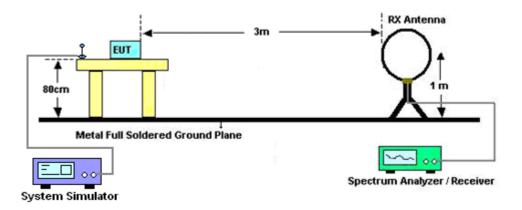
### 4 Radiated Test Items

### 4.1 Measuring Instruments

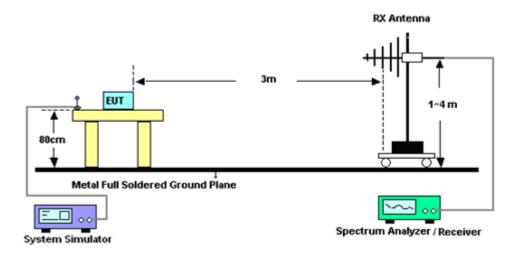
See list of measuring instruments of this test report.

### 4.2 Test Setup

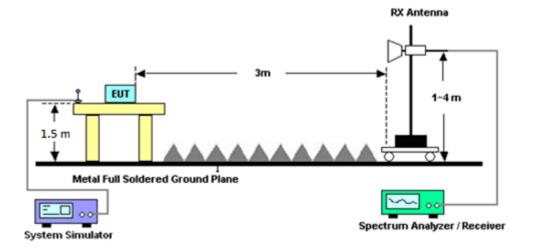
#### For radiated emissions below 30MHz



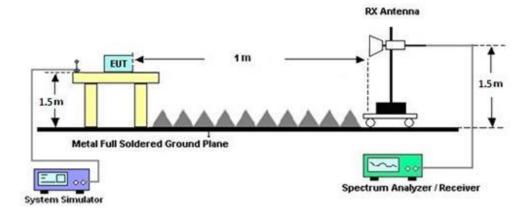
#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions from 1GHz to 18GHz



#### For radiated emissions above 18GHz



### 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 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.

### 4.4 Radiated Spurious Emission

### 4.4.1 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 -40dBm / MHz.

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

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

- 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.
- 4. 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.
- To convert spectrum reading E(dBuV/m) to EIRP(dBm)
  EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules.
- Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
- 8. ERP (dBm) = EIRP (dBm) 2.15
- 9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



# 5 List of Measuring Equipment

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	Feb. 28, 2023	Oct. 18, 2023~ Oct. 23, 2023	Feb. 27, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Oct. 18, 2023~ Oct. 23, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 23, 2023	Oct. 18, 2023~ Oct. 23, 2023	Apr. 22, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 15, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 14, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 31, 2023	Oct. 18, 2023~ Oct. 23, 2023	Jul. 30, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	1224	18GHz-40GHz	Jul. 10, 2023	Oct. 18, 2023~ Oct. 23, 2023	Jul. 09, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00991	18GHz-40GHz	Jun. 01, 2023	Oct. 18, 2023~ Oct. 23, 2023	May 31, 2024	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161075	10MHz~1GHz	Mar. 21, 2023	Oct. 18, 2023~ Oct. 23, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Oct. 18, 2023~ Oct. 23, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Oct. 18, 2023~ Oct. 23, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-6 0SS	SN11	1GHz High Pass Filter	Nov. 03, 2022	Oct. 18, 2023~ Oct. 23, 2023	Nov. 02, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Oct. 18, 2023~ Oct. 23, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Oct. 18, 2023~ Oct. 23, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Oct. 18, 2023~ Oct. 23, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Oct. 18, 2023~ Oct. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Nov. 02, 2022	Oct. 18, 2023~ Oct. 23, 2023	Nov. 01, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 18, 2023~ Oct. 23, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 18, 2023~ Oct. 23, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 18, 2023~ Oct. 23, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Oct. 18, 2023~ Oct. 23, 2023	N/A	Radiation (03CH12-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6201664755	LTE FDD/TDD(with4 4), LTE-4CC DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 18, 2023	Oct. 25, 2023	Jul. 17, 2024	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Sep. 11, 2023	Oct. 25, 2023	Sep. 10, 2024	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	Oct. 25, 2023	Jan. 05, 2024	Conducted (TH03-HY)



# 6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of	3.07 dB
Confidence of 95% (U = 2Uc(y))	3.07 UB

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

Measuring Uncertainty for a Level of	3.63 dB
Confidence of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of	4.14 dB
Confidence of 95% (U = 2Uc(y))	4.14 UB

# Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & EIRP)

	LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.34 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)		
20	1	0	QPSK	21.31	21.22	21.34	21.68	0.1472		
20	1	0	16-QAM	20.58	20.53	20.63	20.97	0.1250		
Limit	EIRP < 23dBm/10MHz			Result			Pass			

LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.34 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)	
15	1	0	QPSK	21.27	21.19	21.33	21.67	0.1469	
15	1	0	16-QAM	20.49	20.44	20.53	20.87	0.1222	
Limit	EIRP < 23dBm/10MHz			Result			Pass		

LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.34 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)	
10	1	0	QPSK	21.22	21.15	21.29	21.63	0.1455	
10	1	0	16-QAM	20.51	20.50	20.54	20.88	0.1225	
Limit	EIRP < 23dBm/10MHz		Result			Pass			

LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.34 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)		
5	1	0	QPSK	21.30	21.19	21.32	21.66	0.1466		
5	1	0	16-QAM	20.51	20.45	20.57	20.91	0.1233		
Limit	EIRP	< 23dBm/1	0MHz		Result	Pass				

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



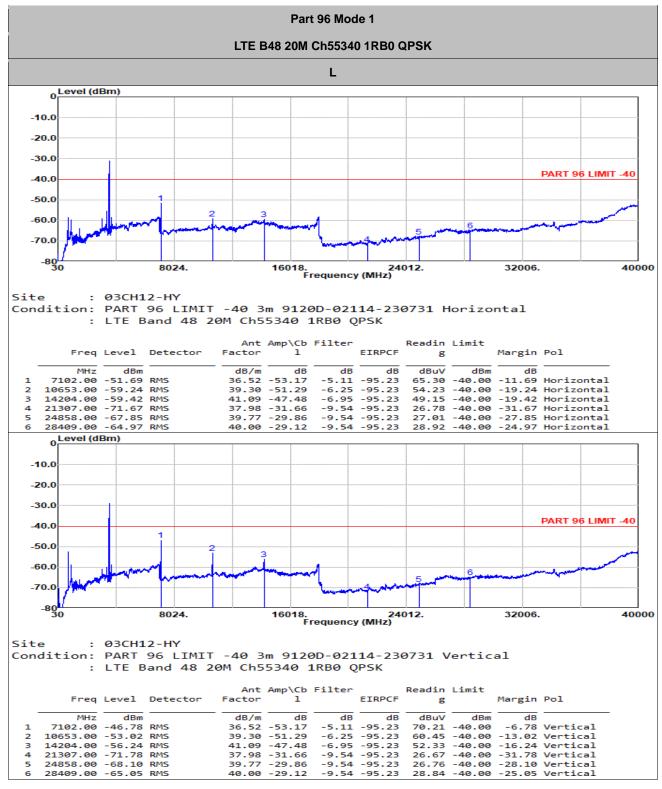
# Appendix B. Test Results of Radiated Test

### B1. Summary of each worse mode

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
Part 96	1	L	7102.000	-46.78	RMS	36.52	-53.17	-5.11	-95.23	70.21	-40.00	-6.78	V	Main







TEL: 0800-800005

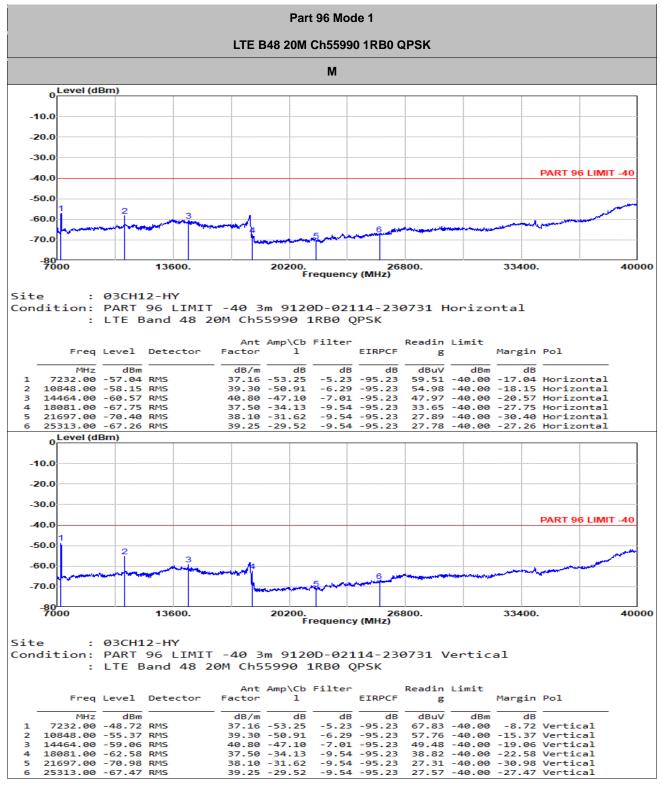
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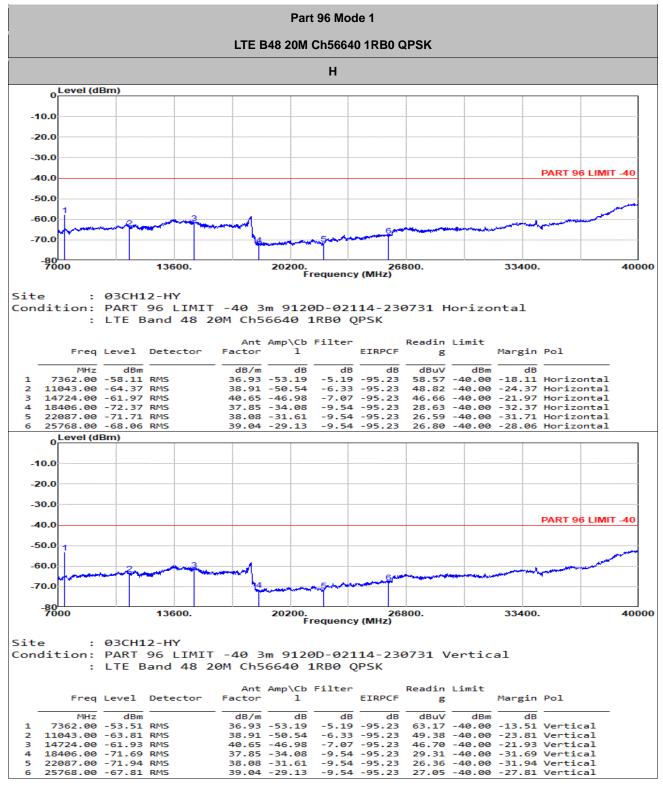
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