

Report No.: FG082404-01E



FCC RADIO TEST REPORT

FCC ID : B94HNI41C5TKR

Equipment : Notebook Computer

Brand Name : HP

Model Name : HSN-I41C-5

Applicant : HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Aug. 27, 2020 and testing was started from Sep. 15, 2020 and completed on Sep. 24, 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 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 (R.O.C.)

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Report Template No.: BU5-FGLTE90R Version 2.4

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History of this test report

Report No. : FG082404-01E

Report No.	Version	Description	Issued Date
FG082404-01E	01	Initial issue of report	Oct. 16, 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	-	See Note
-	§90.542 (a)(7)	Effective Radiated Power	-	See Note
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049	§2.1049 Occupied Bandwidth -		See Note
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §90.210 (n)	Emission Mask	-	See Note
-	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	-	See Note
-	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See Note
-	§90.542 (a)(7)	Effective Radiated Power	-	See Note
3.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 14.05 dB at 1577.000 MHz

Note: The module (Model: T99W175) 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: Celery Wei

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General Description 1

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC and GNSS.

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Product Sp	ecification subjective to this standard
Sample 1	EUT with WNC Antenna
Sample 2	EUT with Hong-bo Antenna
Sample 3	EUT with AWAN Antenna
	WWAN <ant. 1="">: PIFA Antenna</ant.>
	<ant. 2="">: PIFA Antenna</ant.>
	<ant. 3="">: PIFA Antenna</ant.>
	<ant. 4="">: PIFA Antenna</ant.>
Antenna Type	WLAN
	<ant. 1="">: PIFA Antenna</ant.>
	<ant. 2="">: PIFA Antenna</ant.>
	Bluetooth: PIFA Antenna
	GPS/Glonass/BDS/Galileo: PIFA Antenna
	NFC: Loop Antenna

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V.							W	WAN Antenn	a Information							
Vendor									AWAN							
Antenna									PIFA 36B0256001							
Part									36B0256001 IP6Y-100037)							
Number									n)(5)(Tx1/Rx1)							
	B2	B4	B5	В7	B12	B13	B14	B17	B25	B26	B30	B38	B41	B42	B48	B66
Frequency	1850-1910MHz				699-716MHz	777-787MHz	788-798MHz	704-716MHz	1850-1915MHz				2496-2690MHz			1710-1780MHz
											0.42					
Gain (dBi)	1.98	0.47	-4.45	-0.59	-2.03	-3.80	-4.15	-2.21	1.98	-4.45		0.47	0.75	-0.79	0.28	0.47
								60	36B0256801							
Part								(AL	IP6Y-100038)							
Number								(A	ux)(6)(Rx2)							
Frequency	B2	B4	B5	В7	B12	B13	B14	B17	B25	B26	B30	B38	B41	B42	B48	B66
rrequericy	1930-1990MHz	2110-2155MHz	869-894MHz	2620-2690MHz	729-746MHz	746-756MHz	758-768MHz	734-746MHz	1930-1995MHz	859-894MHz	2350-2360MHz	2570-2620MHz	2496-2690MHz	3400-3600MHz	3550-3700MHz	2110-2200MHz
Gain (dBi)	-2.76	-1.78	-5.86	-4.02	-1.75	-1.48	-1.41	-1.85	-2.40	-5.36	-3.43	-3.05	-2.01	-1.94	-1.58	-1.78
Vendor									HONG-BO							
Antenna									PIFA							
Part									36B0259101							
Number									260-27377)							
					B.(0	B.(0	B.1.1		n)(5)(Tx1/Rx1)					5.10	B.10	200
Frequency	B2	1710 1755MH-	B5	B7 2500-2570MHz	B12 699-716MHz	B13 777-787MHz	B14 788-798MHz	B17	B25 1850-1915MHz	B26	B30	B38	B41	B42	B48 3550-3700MHz	B66 1710-1780MHz
	1650-1910IVIHZ	1710-1755WIHZ	624-649IVITIZ	2500-2570MHZ	699-7 TOMITZ	///-/8/IVITZ	700-790IVITIZ	704-7 TOWINZ	1850-1915MHZ	614-649IVIFIZ	-3.72	2570-2620WIFIZ	2496-2690IVITI2	3400-3600IVITI2	3550-3700IVIHZ	1710-1760MHZ
Gain (dBi)	0.95	0.85	-0.32	0.18	-1.67	0.20	-0.68	-1.67	0.95	-0.32	-5.72	0.14	0.18	-0.63	-0.73	0.85
								60	36B0258901							
Part								(260-27378)							
Number								(A	ux)(6)(Rx2)							
	B2	B4	B5	В7	B12	B13	B14	B17	B25	B26	B30	B38	B41	B42	B48	B66
Frequency	1930-1990MHz	2110-2155MHz	869-894MHz	2620-2690MHz	729-746MHz	746-756MHz	758-768MHz	734-746MHz	1930-1995MHz	859-894MHz	2350-2360MHz	2570-2620MHz	2496-2690MHz	3400-3600MHz	3550-3700MHz	2110-2200MHz
Gain (dBi)	-0.22	-1.74	-3.56	-3.36	-3.75	-3.50	-3.50	-3.75	-0.22	-3.56	-2.79	-3.68	-3.36	-2.35	-1.44	-1.74
Vendor									WNC							
Antenna									PIFA							
Part									36B0254501							
Number									EABB15.G47)							
					B/:				n)(5)(Tx1/Rx1)							
Frequency	B2	B4	B5	B7	B12	B13	B14	B17	B25	B26	B30	B38	B41	B42	B48	B66
	1000-191UMHZ	17 1U-1755MHZ	024-049IVIHZ	2620-2690MHz	099-7 IOMHZ	///-/6/MHZ		104-116IVIHZ	1850-1915MHz	014-049WHZ		237U-262UIVIHZ	2490-209UMHZ	34UU-36UUIVIHZ	3550-3700MHz	17 10-17 8UMHZ
Gain (dBi)	1.63	2.49	0.15	-0.96	-2.73	-0.73	-0.89	-2.73	1.63	0.15	-0.37	-0.42	-0.42	0.23	0.34	2.49
								60	36B0254101							
Part									EABB15.G48)							
Number									ux)(6)(Rx2)							
F	B2	B4	B5	В7	B12	B13	B14	B17	B25	B26	B30	B38	B41	B42	B48	B66
Frequency	1930-1990MHz	2110-2155MHz	869-894MHz	2620-2690MHz	729-746MHz	746-756MHz	758-768MHz	734-746MHz	1930-1995MHz	859-894MHz	2350-2360MHz	2570-2620MHz	2496-2690MHz	3400-3600MHz	3550-3700MHz	2110-2200MHz

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-4.49 -4.62

-2.37

-3.03

-3.08

-2.88

-1.45

-4.62 -4.29

Vendor AWAN Antenna PIFA 6036B0256001 Part Number (AUP6Y-100037) (Main)(5)(Tx1/Rx1) n7 n2 n5 n12 n41 n66 Frequency 699-716MHz 1850-1910MHz 824-849MHz 2500-2570MHz 2496-2690MHz 1710-1780MHz Gain (dBi) 1.98 -4.45 -0.59 -2.03 0.75 0.47 **AWAN** Vendor Antenna PIFA 6036B0280901 Part Number (AUP6Y-100076) (Aux3)(8)(Tx2/Rx4) n12 n2 n5 n7 n41 n66 Frequency 1850-1910MHz 869-894MHz 2620-2690MHz 729-746MHz 2496-2690MHz 1710-1780MHz Gain (dBi) -1.14 -0.71 -5.02 -0.71 -3.42 -0.13 HONG-BO Vendor Antenna 6036B0259101 Part Number (260-27377) (Main)(5)(Tx1/Rx1) n2 n5 n7 n12 n41 n66 Frequency 1850-1910MHz 824-849MHz 2500-2570MHz 699-716MHz 2496-2690MHz 1710-1780MHz -1.67 0.85 Gain (dBi) 0.95 -0.32 0.18 -0.73 Vendor HONG-BO PIFA Antenna 6036B0278101 Part Number (260-27443) (Aux3)(8)(Tx2/Rx4) n2 n5 n7 n12 n41 n66 Frequency 1850-1910MHz 869-894MHz 2500-2570MHz 729-746MHz 2496-2690MHz 2110-2200MHz 0.32 0.21 -0.39 -0.39 -4.74 0.21 Gain (dBi) Vendor WNC PIFA Antenna 6036B0254501 Part Number (81EABB15.G47) (Main)(5)(Tx1/Rx1) n2 n5 n7 n12 n41 n66 Frequency 1850-1910MHz 824-849MHz 699-716MHz 2496-2690MHz 1710-1780MHz 2500-2570MHz Gain (dBi) 1.63 0.15 -0.96 -2.73 -0.42 2.49 Vendor WNC Antenna PIFA 6036B0277401 Part Number (81EABD15.G10) (Aux3)(8)(Tx2/Rx4) n2 n5 n12 n41 n66 Frequency 869-894MHz 2500-2570MHz 1850-1910MHz 729-746MHz 2496-2690MHz 2110-2200MHz -3.29 -1.31 -0.60 Gain (dBi) -2.78 -1.31 -2.15

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1.2 Modification of EUT

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

1.3 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
rest site No.	03CH12-HY
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	22.8~26.2°ℂ
Relative Humidity	56.5~68.6%

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

FCC Designation No.: TW0007

1.4 Applied Standards

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

- + ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- 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

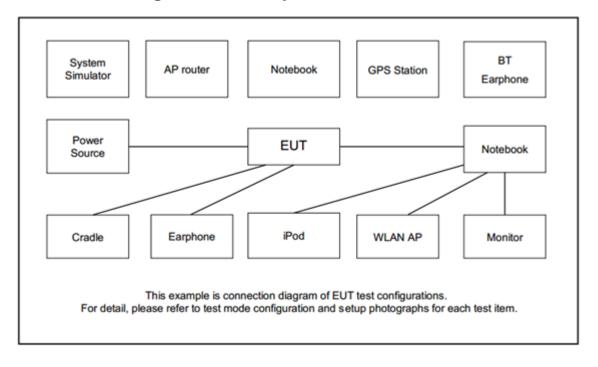
2.1 Test Mode

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

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Conducted	Bar		ndwidth (MHz)		Modulation			RB#			Test Channel						
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Radiated																	
Spurious	14	-	-		٧	-	-				v	٧				٧	
Emission																	
Remark	 Th Th ur er 	ne mar ne devi nder di nissior	k "-" m ice is i fferent ns are	eans t nvestig RB siz reporte	hat thi jated f ze/offs ed.	s band rom 30 et and	lwidth)MHz t modul		oported. es of fund explorat	damental ory test.	signal for Subseque			•			test

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	Model No.	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

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2.4 Frequency List of Low/Middle/High Channels

	LTE Band 14 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
10	Channel	-	23330	-					
10	Frequency	-	793	-					

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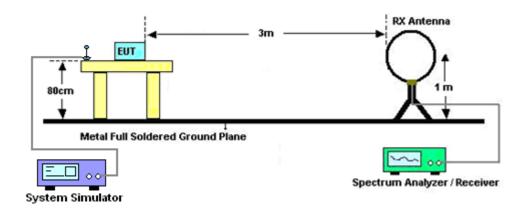
3 Radiated Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

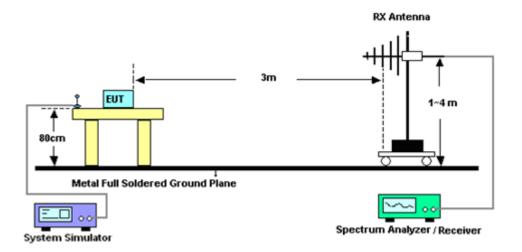
3.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



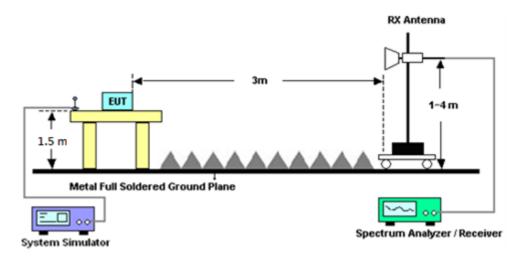
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For radiated test above 1GHz



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3.1.2 Test Result of Radiated Test

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 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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3.2 Radiated Spurious Emission

3.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

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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 + 10 log (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the

band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP)

for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the

purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative

of the type that will be used with the equipment in normal operation.

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

3.2.2 Test Procedures

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

1. 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.

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 the

maximum spurious emission for both horizontal and vertical polarizations.

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

frequency band.

11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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4 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	Dec. 26, 2019	Sep. 15, 2020~ Sep. 24, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	Sep. 15, 2020~ Sep. 24, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 8	1GHz~18GHz	Nov. 14, 2019	Sep. 15, 2020~ Sep. 24, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-162 0	1GHz ~ 18GHz	Oct. 28, 2019	Sep. 15, 2020~ Sep. 24, 2020	Oct. 27, 2020	Radiation (03CH12-HY)
Preamplifier	COM-POWE R	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Sep. 15, 2020~ Sep. 24, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY572801 20	1GHz~26.5GHz	Jul. 20, 2020	Sep. 15, 2020~ Sep. 24, 2020	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3K	171000180 0054002	1GHz~18GHz	Feb. 07, 2020	Sep. 15, 2020~ Sep. 24, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY542004 85	10Hz~44GHz	Feb. 10, 2020	Sep. 15, 2020~ Sep. 24, 2020	Feb. 09, 2021	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Sep. 15, 2020~ Sep. 24, 2020	Feb. 14, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Sep. 15, 2020~ Sep. 24, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 12, 2019	Sep. 15, 2020~ Sep. 24, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 25, 2020	Sep. 15, 2020~ Sep. 24, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 25, 2020	Sep. 15, 2020~ Sep. 24, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 15, 2020~ Sep. 24, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 15, 2020~ Sep. 24, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 15, 2020~ Sep. 24, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Sep. 15, 2020~ Sep. 24, 2020	N/A	Radiation (03CH12-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.07
Confidence of 95% (U = 2Uc(y))	3.07

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

Measuring Uncertainty for a Level of	2 24
Confidence of 95% (U = 2Uc(y))	3.21

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Appendix A. Test Results of Radiated Test

LTE Band 14

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LTE Band 14 / 10MHz / 256QAM									
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)
Middle	1577	-62.27	-42.15	-20.12	-70.72	-67.62	0.90	8.39	Н
	2365	-54.03	-13	-41.03	-67.6	-61.27	1.12	10.51	Н
	3154	-57.43	-13	-44.43	-72.89	-65.65	1.30	11.67	Н
	1577	-56.20	-42.15	-14.05	-64.13	-61.55	0.90	8.39	V
	2365	-53.15	-13	-40.15	-66.47	-60.39	1.12	10.51	V
	3154	-56.93	-13	-43.93	-72.81	-65.15	1.30	11.67	V

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

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