



FCC RADIO TEST REPORT

FCC ID : B94HNC05CTKR
Equipment : Convertible PC
Brand Name : HP
Model Name : HSN-C05C
Applicant : HP Inc.
3390 East Harmony Road, Fort Collins,
Colorado, United States 80528
Standard : 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Mar. 31, 2020 and testing was started from Apr. 27, 2020 and completed on May 16, 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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Appendix A. Test Results of Radiated Test



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046	Conducted Output Power	-	See Note
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (n5)	-	
	§27.50 (c)(10)	Effective Radiated Power (Band 12) (n12)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (n2) (Band 7) (n7) (Band 41) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 66) (n66)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio		-
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (n2) (Band 5) (n5) (Band 12) (n12) (Band 66) (n66)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (n7) (Band 41) (n41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (n2) (Band 5) (n5) (Band 12) (n12) (Band 66) (n66)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (n7) (Band 41) (n41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (n2) (Band 5) (n5) (Band 12) (n12) (Band 66) (n66)	Pass	Under limit 1.97 dB at 5050.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (n7) (Band 41) (n41)		

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: Tina Chuang



1 General Description

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.

Product Specification subjective to this standard	
WWAN Module	Brand Name: FOXCONN Model Name: T99W175
Antenna Type	WWAN <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna (Rx only) <Ant. 3>: PIFA Antenna <Ant. 4>: PIFA Antenna (Rx only) WLAN <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo: PIFA Antenna NFC: Loop Antenna

WWAN Antenna Information NB Mode			
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)
Tx1 Antenna WA-P-LTE15-02-003 (DC33002DU00)	INPAQ Corporation	PIFA	824-849MHz -0.77 dBi (peak)
			880-915MHz -0.92 dBi (peak)
			1710-1785MHz 0.56 dBi (peak)
			1850-1910MHz 1.28 dBi (peak)
			1920-1980MHz 0.7 dBi (peak)
			704-716MHz -2.03 dBi (peak)
			746-756MHz -0.33 dBi (peak)
			777-787MHz 0.44 dBi (peak)
			832-862MHz -0.84 dBi (peak)
			1710-1755MHz 0.67 dBi (peak)
			2500-2570MHz -0.31 dBi (peak)
			2570-2620MHz 0.21 dBi (peak)
MIMO3 Antenna WA-P-LTE16-02-002 (DC33002DU30)	INPAQ Corporation	PIFA	2300-2400MHz -0.27 dBi (peak)
			1930-1990MHz 0.73 dBi (peak)
			2110-2170MHz 1.3 dBi (peak)
			2132-2155MHz 0.78 dBi (peak)
			2300-2400MHz 1.17 dBi (peak)



WWAN Antenna Information TB Mode			
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)
Tx1 Antenna WA-P-LTE15-02-003 (DC33002DU00)	INPAQ Corporation	PIFA	824-849MHz -2.79 dBi (peak)
			880-915MHz -2.16 dBi (peak)
			1710-1785MHz -1.2 dBi (peak)
			1850-1910MHz -1.69 dBi (peak)
			1920-1980MHz -1.5 dBi (peak)
			704-716MHz -4.27 dBi (peak)
			746-756MHz -4.65 dBi (peak)
			777-787MHz -4.36 dBi (peak)
			832-862MHz -2.15 dBi (peak)
			1710-1755MHz -1.19 dBi (peak)
			2500-2570MHz 0.16 dBi (peak)
			2570-2620MHz 0.17 dBi (peak)
MIMO3 Antenna WA-P-LTE16-02-002 (DC33002DU30)	INPAQ Corporation	PIFA	2300-2400MHz -1.81 dBi (peak)
			1930-1990MHz -2 dBi (peak)
			2110-2170MHz -1.69 dBi (peak)
			2132-2155MHz -1.69 dBi (peak)
			2300-2400MHz 2.82 dBi (peak)

1.2 Modification of EUT

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



1.3 Testing Location

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. 03CH12-HY
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	19~22°C
Relative Humidity	52~60%

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

FCC Designation No.: TW0007

1.4 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
- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ 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.



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.

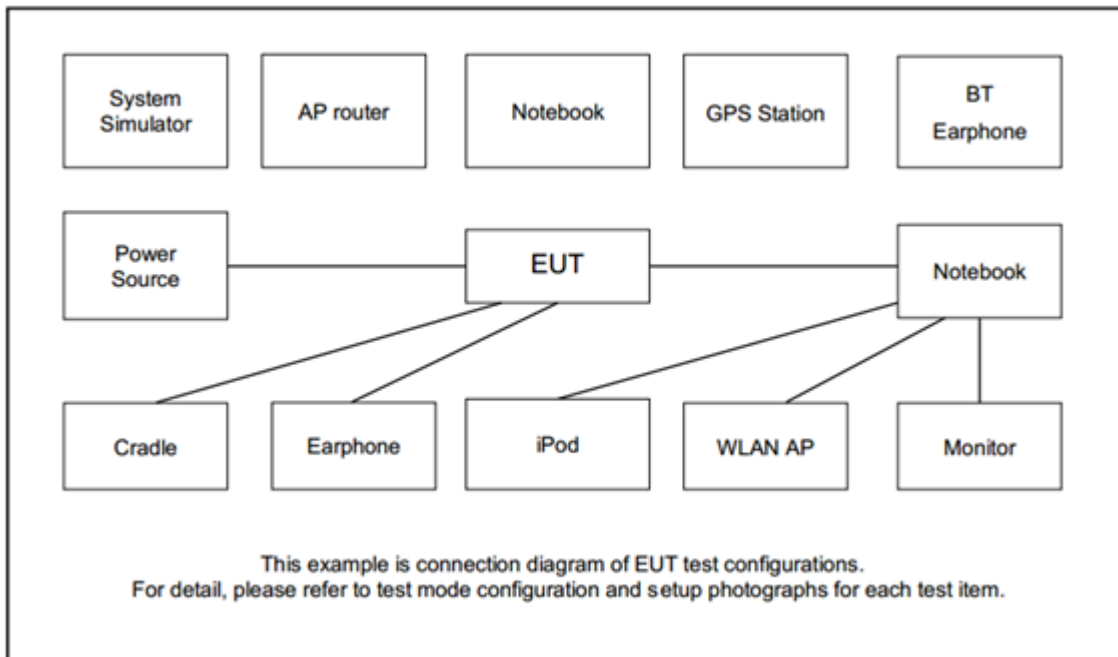
For radiated measurement, pre-scanned in Tablet Mode (three orthogonal panels, X, Y, Z) and Notebook Mode. The worst cases (Notebook Mode with Accessory for Band 41 (HPUE), 5G NR n5, 5G NR n2, and 5G NR n41 (HPUE) ; Y Plane for 5G NR n7) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H	
Radiated Spurious Emission	41	-	-	-	-	-	v	v						v	v	v	v
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. 																

Test Items	NR Band	Bandwidth (MHz)					Modulation					RB #			Test Channel		
		5	10	15	20	40	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	n2	-	-	-	v		v					v			v	v	v
	n5	-	-	-	v		v					v			v	v	v
	n7	-	-	-	v	-	v					v			v	v	v
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. Test combination is EN-DC 5A-n2A, EN-DC 2A-n5A, EN-DC 5A-n7A For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report. 																

Test Items	NR Band	Bandwidth (MHz)							Modulation					RB #			Test Channel			
		20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Radiated Spurious Emission	n41	-	-	-	-	-	-	v	v						v			v	v	v
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report. The 5G NR n41 test items make the EUT get into the FTM modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals. 																			

2.2 Connection Diagram of Test System



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	MT8000A	N/A	N/A	Unshielded, 1.8m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A



2.4 Frequency List of Low/Middle/High Channels

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

5G NR Band n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR Band n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



5G NR Band n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR Band n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

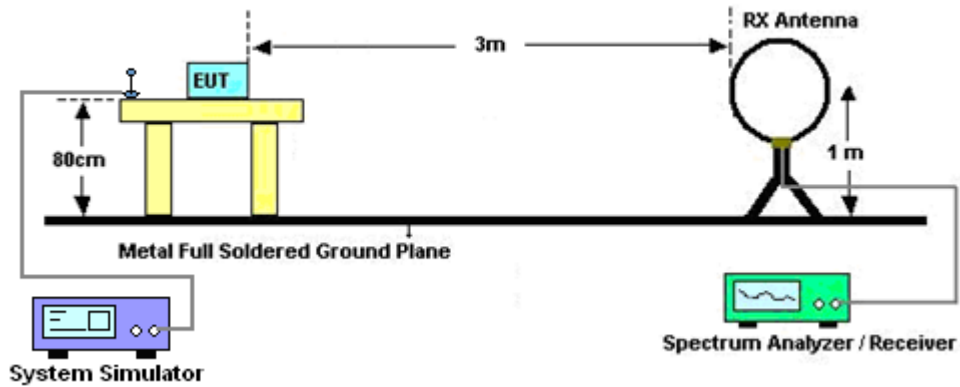
3 Radiated Test Items

3.1 Measuring Instruments

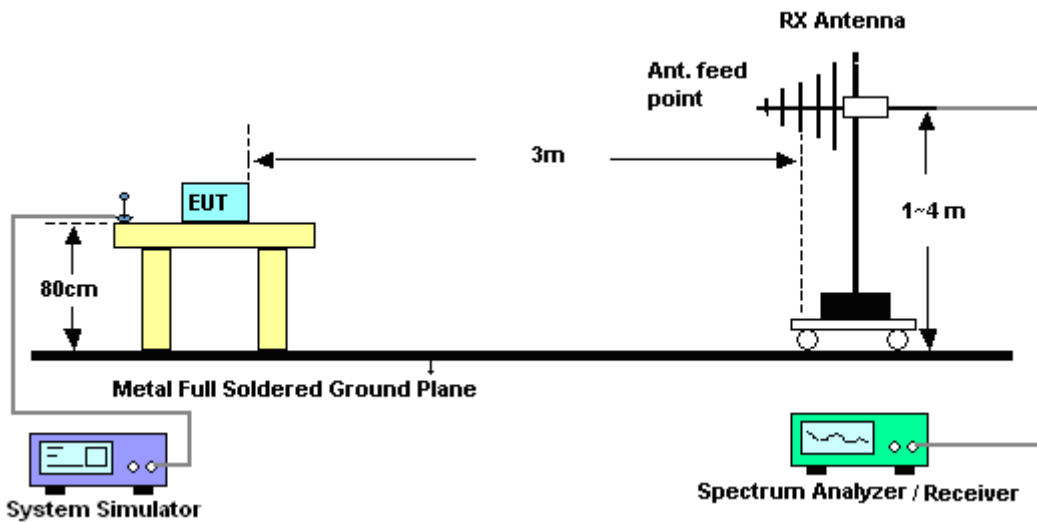
See list of measuring instruments of this test report.

3.1.1 Test Setup

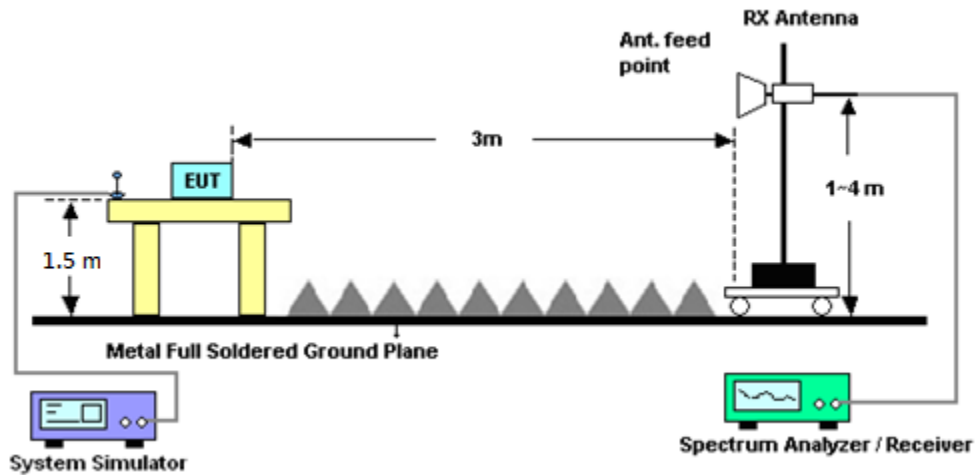
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.1.2 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.



3.2 Radiated Spurious Emission Measurement

3.2.1 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 $43 + 10 \log (P)$ dB.

For LTE Band 41 and 5G NR n7, n41

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 $55 + 10 \log (P)$ dB.

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, 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.

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

For LTE Band 41 and 5G NR n7, n41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



4 List of Measuring Equipment

Instrument	Manufacturer	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	Apr. 27, 2020~ May 16, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	Apr. 27, 2020~ May 16, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 14, 2019	Apr. 27, 2020~ May 16, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	Apr. 27, 2020~ May 16, 2020	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz ~ 40GHz	Dec. 10, 2019	Apr. 27, 2020~ May 16, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917098 0	18GHz ~ 40GHz	Jan. 10, 2019	Apr. 27, 2020~ May 16, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Apr. 27, 2020~ May 16, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA00101800- 30-10P	1601180002	1GHz~18GHz	Feb. 07, 2020	Apr. 27, 2020~ May 16, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Apr. 27, 2020~ May 16, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Dec. 20, 2019	Apr. 27, 2020~ May 16, 2020	Dec. 19, 2020	Radiation (03CH12-HY)
Signal Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 12, 2020	Apr. 27, 2020~ May 16, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	Apr. 27, 2020~ May 16, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Dec. 12, 2019	Apr. 27, 2020~ May 16, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Apr. 27, 2020~ May 16, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 25, 2020	Apr. 27, 2020~ May 16, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 27, 2020~ May 16, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 27, 2020~ May 16, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 27, 2020~ May 16, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 27, 2020~ May 16, 2020	N/A	Radiation (03CH12-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of 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 Confidence of 95% ($U = 2Uc(y)$)	3.62
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.06
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Appendix A. Test Results of Radiated Test

LTE Band 41 HPUE

LTE Band 41 / 20MHz / QPSK									
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)
Lowest	4994	-48.69	-25	-23.69	-75.09	-59.68	1.61	12.60	H
	7491	-44.24	-25	-19.24	-74.72	-53.37	1.99	11.11	H
	9988	-41.10	-25	-16.10	-74.46	-50.01	2.40	11.30	H
	4994	-49.34	-25	-24.34	-75.28	-60.33	1.61	12.60	V
	7491	-43.86	-25	-18.86	-74.3	-52.99	1.99	11.11	V
	9988	-40.30	-25	-15.30	-74.42	-49.21	2.40	11.30	V
Middle	5168	-49.47	-25	-24.47	-75.96	-60.65	1.65	12.84	H
	7752	-44.78	-25	-19.78	-74.59	-53.91	2.03	11.15	H
	10336	-40.44	-25	-15.44	-74.5	-49.08	2.39	11.03	H
	5168	-49.58	-25	-24.58	-75.86	-60.76	1.65	12.84	V
	7752	-45.00	-25	-20.00	-74.57	-54.13	2.03	11.15	V
	10336	-40.59	-25	-15.59	-74.72	-49.23	2.39	11.03	V
Highest	5342	-48.27	-25	-23.27	-75.28	-59.65	1.70	13.08	H
	8013	-43.25	-25	-18.25	-74.35	-52.42	2.06	11.23	H
	10684	-39.77	-25	-14.77	-74.27	-48.18	2.49	10.90	H
	5342	-48.69	-25	-23.69	-75.35	-60.07	1.70	13.08	V
	8013	-43.26	-25	-18.26	-74.25	-52.43	2.06	11.23	V
	10684	-39.94	-25	-14.94	-74.19	-48.35	2.49	10.90	V

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



EN-DC 2A n5A

EN-DC_2A_n5A / 20MHz / PI/2 BPSK									
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)
Lowest	1651	-41.07	-13	-28.07	-74.57	-46.67	0.92	8.67	H
	2476	-36.50	-13	-23.50	-74.87	-43.87	1.14	10.67	H
	3301	-34.95	-13	-21.95	-75.12	-43.50	1.32	12.02	H
	1651	-41.47	-13	-28.47	-74.43	-47.07	0.92	8.67	V
	2476	-36.12	-13	-23.12	-74.65	-43.49	1.14	10.67	V
	3301	-34.65	-13	-21.65	-75.29	-43.20	1.32	12.02	V
Middle	1656	-41.06	-13	-28.06	-74.58	-46.68	0.92	8.69	H
	2483	-36.12	-13	-23.12	-74.51	-43.50	1.15	10.68	H
	3311	-34.59	-13	-21.59	-74.74	-43.16	1.33	12.05	H
	1656	-41.48	-13	-28.48	-74.43	-47.10	0.92	8.69	V
	2483	-36.02	-13	-23.02	-74.59	-43.40	1.15	10.68	V
	3311	-34.24	-13	-21.24	-74.86	-42.81	1.33	12.05	V
Highest	1661	-40.91	-13	-27.91	-74.44	-46.55	0.92	8.71	H
	2491	-36.58	-13	-23.58	-74.98	-43.97	1.15	10.69	H
	3321	-34.41	-13	-21.41	-74.54	-43.00	1.33	12.07	H
	1661	-41.07	-13	-28.07	-74.02	-46.71	0.92	8.71	V
	2491	-35.71	-13	-22.71	-74.3	-43.10	1.15	10.69	V
	3321	-34.28	-13	-21.28	-74.87	-42.87	1.33	12.07	V

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



EN-DC 5A n2A

EN-DC_A_n2A / 20MHz / PI/2 BPSK									
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)
Lowest	3700	-33.25	-13	-20.25	-75.43	-44.46	1.41	12.62	H
	5554	-27.57	-13	-14.57	-75.22	-39.13	1.74	13.30	H
	7407	-43.39	-13	-30.39	-74.69	-52.70	1.94	11.25	H
	3700	-33.44	-13	-20.44	-75.76	-44.65	1.41	12.62	V
	5554	-27.89	-13	-14.89	-75.07	-39.45	1.74	13.30	V
	7407	-43.59	-13	-30.59	-74.74	-52.90	1.94	11.25	V
Middle	3742	-32.76	-13	-19.76	-75.13	-43.98	1.42	12.65	H
	5614	-27.32	-13	-14.32	-74.86	-38.88	1.74	13.30	H
	7484	-43.43	-13	-30.43	-74.35	-52.57	1.98	11.13	H
	3742	-32.11	-13	-19.11	-74.68	-43.33	1.42	12.65	V
	5614	-28.11	-13	-15.11	-75.32	-39.67	1.74	13.30	V
	7484	-43.51	-13	-30.51	-74.38	-52.65	1.98	11.13	V
Highest	3784	-31.37	-13	-18.37	-73.95	-41.58	2.02	12.23	H
	5674	-27.87	-13	-14.87	-75.69	-38.20	2.11	12.44	H
	7561	-44.07	-13	-31.07	-74.56	-52.18	2.11	10.22	H
	3784	-31.74	-13	-18.74	-74.57	-41.95	2.02	12.23	V
	5674	-28.68	-13	-15.68	-76	-39.01	2.11	12.44	V
	7561	-43.92	-13	-30.92	-74.37	-52.03	2.11	10.22	V

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



EN-DC 5A n7A

EN-DC_5A_n7A / 20MHz / PI/2 BPSK									
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)
Lowest	5002	-27.07	-25	-2.07	-63.35	-38.06	1.61	12.60	H
	7506	-43.60	-25	-18.60	-74.41	-52.71	1.99	11.10	H
	10003	-40.87	-25	-15.87	-74.46	-49.77	2.40	11.30	H
	5002	-32.31	-25	-7.31	-68.14	-43.30	1.61	12.60	V
	7506	-44.02	-25	-19.02	-74.83	-53.13	1.99	11.10	V
	10003	-41.13	-25	-16.13	-74.72	-50.03	2.40	11.30	V
Middle	5050	-26.97	-25	-1.97	-63.27	-38.02	1.62	12.67	H
	7583	-44.32	-25	-19.32	-74.69	-53.43	2.00	11.12	H
	10102	-40.79	-25	-15.79	-74.6	-49.61	2.40	11.22	H
	5050	-33.33	-25	-8.33	-69.25	-44.38	1.62	12.67	V
	7583	-44.32	-25	-19.32	-74.69	-53.43	2.00	11.12	V
	10102	-41.09	-25	-16.09	-74.9	-49.91	2.40	11.22	V
Highest	5104	-28.69	-25	-3.69	-65	-39.80	1.64	12.75	H
	7649	-44.25	-25	-19.25	-74.51	-53.37	2.01	11.13	H
	10201	-40.80	-25	-15.80	-74.83	-49.54	2.40	11.14	H
	5104	-34.25	-25	-9.25	-70.26	-45.36	1.64	12.75	V
	7649	-44.11	-25	-19.11	-74.37	-53.23	2.01	11.13	V
	10201	-40.85	-25	-15.85	-74.88	-49.59	2.40	11.14	V

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



EN-DC n41A FTM

EN-DC_n41A_FTM / 20MHz / PI/2 BPSK									
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)
Lowest	5092	-48.86	-25	-23.86	-75.31	-59.95	1.63	12.73	H
	7638	-44.60	-25	-19.60	-74.44	-53.72	2.01	11.13	H
	10184	-40.73	-25	-15.73	-74.44	-49.49	2.40	11.15	H
	5092	-48.94	-25	-23.94	-75.07	-60.03	1.63	12.73	V
	7638	-44.44	-25	-19.44	-74.19	-53.56	2.01	11.13	V
	10184	-40.27	-25	-15.27	-74.38	-49.03	2.40	11.15	V
Middle	5184	-48.86	-25	-23.86	-75.35	-60.06	1.66	12.86	H
	7776	-44.34	-25	-19.34	-74.14	-53.47	2.03	11.16	H
	10368	-40.47	-25	-15.47	-74.6	-49.08	2.39	11.01	H
	5184	-49.37	-25	-24.37	-75.68	-60.57	1.66	12.86	V
	7776	-44.55	-25	-19.55	-74.08	-53.68	2.03	11.16	V
	10368	-40.52	-25	-15.52	-74.65	-49.13	2.39	11.01	V
Highest	5280	-48.61	-25	-23.61	-75.39	-59.92	1.68	12.99	H
	7920	-43.71	-25	-18.71	-74.32	-52.85	2.05	11.18	H
	10560	-40.03	-25	-15.03	-74.48	-48.51	2.42	10.90	H
	5280	-48.98	-25	-23.98	-75.49	-60.29	1.68	12.99	V
	7920	-43.86	-25	-18.86	-74.26	-53.00	2.05	11.18	V
	10560	-40.43	-25	-15.43	-74.61	-48.91	2.42	10.90	V

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

————THE END————