

Report No.: FG912412C



FCC RADIO TEST REPORT

FCC ID : B94HNI29CPD

Equipment : Notebook Computer

Brand Name : HP

Model Name : HSN-I29C Applicant : HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

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

The product was received on Jan. 24, 2019 and testing was started from Mar. 28, 2019 and completed on Apr. 14, 2019. 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.

Approved by: Jones Tsai

Jones Tsur

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issued Date
FG912412C	01	Initial issue of report	Apr. 25, 2019

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 44.70 dB at 1632.000 MHz

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: Yimin Ho

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1 General Description

1.1 Feature of Equipment Under Test

WCDMA/LTE

Product Specification subjective to this standard					
Integrated WWAN Module	Brand Name: Fibocom				
Integrated WWAN Module	Model Name: L850-GL				
	WWAN:				
Antenna Type	<ant 1.="">: PIFA Antenna</ant>				
	<ant 2.="">: PIFA Antenna</ant>				

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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.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
rest site No.	TH05-HY
Test Engineer	George Chen
Temperature	24~25°C
Relative Humidity	50~52%

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

Test Site	SPORTON INTERNATIONAL INC.
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.	03CH11-HY
Test Engineer	Hao Hsu, Fu Chen, and Ken Wu
Temperature	21~25°C
Relative Humidity	51~58%

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

FCC Designation No. TW1190 and TW0007

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1.4 Applied Standards

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

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- 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 412172 D01 Determining ERP and EIRP 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.

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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.

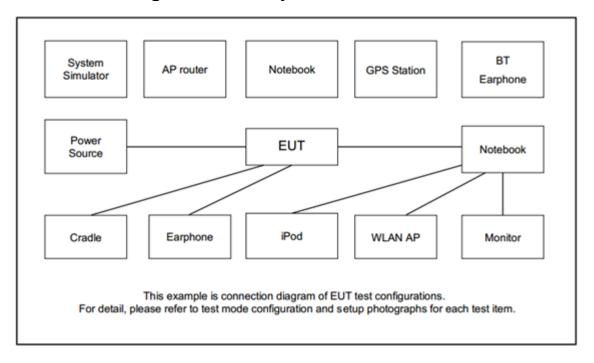
For radiated measurement, pre-scanned in Notebook type and three orthogonal panels, X, Y, Z. The worst cases (Notebook type) were recorded in this report.

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

Conducted	Dand		Ва	ndwic	lth (Mi	Hz)	Modulation RB			RB # Test Channel			nnel		
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output Power	26	٧	v	٧	v	v	ı	v	v	v	v	٧	٧	٧	v
E.R.P.	26					v	1	v	v	v			>	v	v
Radiated Spurious Emission	26	Worst Case					v v v					v			
	1. Th	ne marl	k " v " n	neans t	that thi	s confi	guratio	n is chosen fo	or testing						
	2. The mark "-" means that this bandwidth is not supported.														
Remark	k 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial								ЛHz.						
	fre	equenc	y spec	trum w	hich fa	lls with	in part	22 also comp	plies.						

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	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	aibo	IP-E1	N/A	Unshielded, 1.1 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	-	-				
10	Channel	-	26740	-				
	Frequency	-	819	-				
F	Channel	26715	26740	26765				
5	Frequency	816.5	819	821.5				
2	Channel	26705	26740	26775				
3	Frequency	815.5	819	822.5				
4.4	Channel	26697	26740	26783				
1.4	Frequency	814.7	819	823.3				

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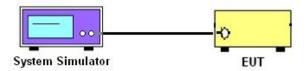
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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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 Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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 LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = 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.
- 4. Measure and record the power level from the system simulator.

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 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+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

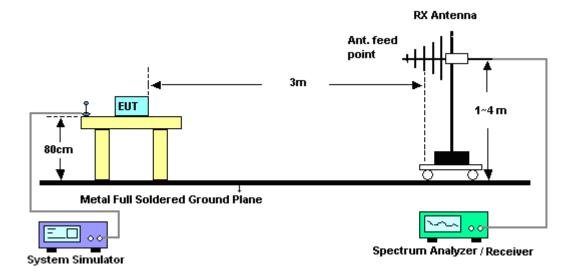
3.3.2 Test Procedures

- 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.
- 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 5. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 6. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 7. Taking the record of output power at antenna port.
- 8. Repeat step 7 to step 8 for another polarization.
- 9. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 10. ERP (dBm) = EIRP 2.15
- 11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 12. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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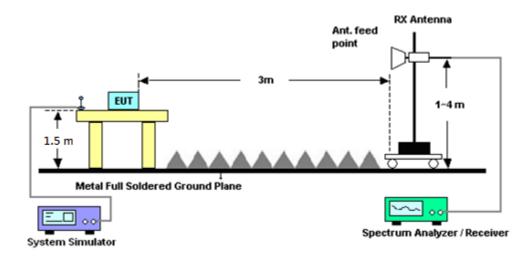
3.3.3 Test Setup

For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.3.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Apr. 08, 2019~ Apr. 14, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Apr. 08, 2019~ Apr. 14, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 13, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Oct. 15, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 14, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Nov. 09, 2018	Apr. 08, 2019~ Apr. 14, 2019	Nov. 08, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Apr. 08, 2019~ Apr. 14, 2019	Nov. 22, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532701 48	1GHz~26.5GHz	Nov. 14, 2018	Apr. 08, 2019~ Apr. 14, 2019	Nov. 13, 2019	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 18, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 17, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-108 0-1200-1500- 60SS	SN2	1.2G High Pass	Sep. 17, 2018	Apr. 08, 2019~ Apr. 14, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 17, 2018	Apr. 08, 2019~ Apr. 14, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY532900 45	20MHz~8.4GHz	Jan. 19, 2019	Apr. 08, 2019~ Apr. 14, 2019	Jan. 18, 2020	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2018	Apr. 08, 2019~ Apr. 14, 2019	May 21, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz- 40GHz	May 08, 2018	Apr. 08, 2019~ Apr. 14, 2019	May 07, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
Base Station	Anritsu	MT8820C	620110750 9	-	Mar. 02, 2018	Mar. 28, 2019	Mar. 01, 2020	Conducted (TH05-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.37
Confidence of 95% (U = 2Uc(y))	3.37

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

Measuring Uncertainty for a Level of	2.67
Confidence of 95% (U = 2Uc(y))	3.67

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	4.03
Confidence of 95% (U = 2Uc(y))	4.03

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Appendix A. Test Results of Conducted Test

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Conducted Output Power(Average power)

	LTE Band 26 Maximum Average Power [dBm]											
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest						
15	1	0		22.20	-	-						
15	1	37		22.28	-	•						
15	1	74		22.22	-	-						
15	36	0	QPSK	21.29	-	•						
15	36	20		21.24	-	-						
15	36	39		21.11	-	-						
15	75	0		21.31	-	-						
15	1	0		21.37	-	-						
15	1	37		21.36	-	-						
15	1	74		21.43	-	-						
15	36	0	16-QAM	20.29	-	ı						
15	36	20		20.47	-	-						
15	36	39		20.28	-	-						
15	75	0		20.23	-	-						
10	1	0		-	22.37	-						
10	1	25		-	22.35	ı						
10	1	49		-	22.31	ı						
10	25	0	QPSK	-	21.43	-						
10	25	12		-	21.30	-						
10	25	25		-	21.24	•						
10	50	0		-	21.36	-						
10	1	0		-	21.54	-						
10	1	25		-	21.49	-						
10	1	49		-	21.49	•						
10	25	0	16-QAM	-	20.40	-						
10	25	12		-	20.33	•						
10	25	25		-	20.37	-						
10	50	0		-	20.51	-						



		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		22.26	22.40	22.33
5	1	12		22.22	22.35	22.29
5	1	24		22.15	22.29	22.35
5	12	0	QPSK	21.22	21.36	21.25
5	12	7	<u> </u>	21.15	21.39	21.08
5	12	13		21.13	21.39	21.20
5	25	0		21.32	21.34	21.24
5	1	0		21.27	21.46	21.52
5	1	12		21.53	21.57	21.48
5	1	24		21.47	21.48	21.56
5	12	0	16-QAM	20.33	20.39	20.33
5	12	7		20.45	20.33	20.24
5	12	13		20.29	20.53	20.31
5	25	0		20.37	20.33	20.31
3	1	0		22.32	22.29	22.32
3	1	8		22.30	22.32	22.23
3	1	14		22.26	22.25	22.24
3	8	0	QPSK	21.30	21.49	21.25
3	8	4		21.25	21.40	21.11
3	8	7		21.07	21.22	21.07
3	15	0		21.29	21.48	21.21
3	1	0		21.36	21.55	21.58
3	1	8		21.40	21.62	21.38
3	1	14		21.57	21.55	21.55
3	8	0	16-QAM	20.28	20.43	20.19
3	8	4		20.44	20.41	20.22
3	8	7		20.25	20.43	20.28
3	15	0		20.34	20.51	20.36

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	LTE Band 26 Maximum Average Power [dBm]											
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest						
1.4	1	0		22.10	22.28	22.15						
1.4	1	3		22.00	22.33	22.14						
1.4	1	5		22.08	22.31	22.31						
1.4	3	0	QPSK	22.00	22.26	22.14						
1.4	3	1		22.15	22.22	22.18						
1.4	3	3		22.13	22.26	22.10						
1.4	6	0		21.07	21.37	21.28						
1.4	1	0		21.47	21.53	21.46						
1.4	1	3		21.38	21.45	21.43						
1.4	1	5		21.32	21.48	21.41						
1.4	3	0	16-QAM	21.07	21.37	21.36						
1.4	3	1		21.21	21.37	21.16						
1.4	3	3		21.14	21.25	21.28						
1.4	6	0		20.09	20.38	20.17						

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Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

<11Cpoi ting	cheporting only?											
	LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -3.71 dB)											
Ok annal	Mode	RB		Cond	lucted	ERP						
Channel	lviode	Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)					
Lowest	QPSK	1	37	22.28	0.17	16.42	0.04					
Middle		-	-	-	-	-	-					
Highest		-	-	-	-	-	-					
Lowest		1	74	21.43	0.14	15.57	0.04					
Middle	16QAM	-	-	-	-	-	-					
Highest		-	-	-	-	-	-					
Limit	ERP < 7W			Re	sult	PASS						

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Radiated Spurious Emission

LTE Band 26 (Part 90s)

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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)	
	1632	-62.83	-13	-49.83	-72.56	-69.75	0.52	9.59	Н	
	2440	-60.15	-13	-47.15	-73.7	-68.11	0.64	10.75	Н	
	3256	-58.73	-13	-45.73	-74.75	-67.7	0.75	11.87	Н	
									Н	
									Н	
Lowest									Н	
Lowest	1632	-61.92	-13	-48.92	-71.47	-68.84	0.52	9.59	V	
	2440	-59.35	-13	-46.35	-73.51	-67.31	0.64	10.75	V	
	3256	-58.60	-13	-45.60	-74.74	-67.57	0.75	11.87	V	
									V	
									V	
									V	
	1632	-60.66	-13	-47.66	-70.39	-67.58	0.52	9.59	Н	
	2440	-60.45	-13	-47.45	-74	-68.41	0.64	10.75	Н	
	3256	-58.66	-13	-45.66	-74.68	-67.63	0.75	11.87	Н	
									Н	
									Н	
Middle									Н	
Middle	1632	-57.70	-13	-44.70	-67.25	-64.62	0.52	9.59	V	
	2440	-59.04	-13	-46.04	-73.2	-67	0.64	10.75	V	
	3256	-58.40	-13	-45.40	-74.54	-67.37	0.75	11.87	V	
									V	
									V	
									V	

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				1	ı			ı	
	1640	-60.27	-13	-47.27	-70.14	-67.2	0.52	9.61	Н
	2456	-60.78	-13	-47.78	-74.28	-68.75	0.65	10.76	Н
	3280	-58.33	-13	-45.33	-74.39	-67.37	0.75	11.94	Н
									Η
									Η
									Η
Lliaboot									Н
Highest	1640	-58.72	-13	-45.72	-68.3	-65.65	0.52	9.61	٧
	2456	-60.11	-13	-47.11	-74.16	-68.08	0.65	10.76	V
	3280	-58.64	-13	-45.64	-74.75	-67.68	0.75	11.94	V
									٧
									V
									V
									V

Report No.: FG912412C

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)		
	1632	-62.10	-13	-49.10	-71.83	-69.02	0.52	9.59	Н		
	2440	-60.45	-13	-47.45	-74	-68.41	0.64	10.75	Н		
	3256	-58.60	-13	-45.60	-74.62	-67.57	0.75	11.87	Н		
									Н		
									Н		
									Н		
Middle									Н		
Middle	1632	-61.41	-13	-48.41	-70.96	-68.33	0.52	9.59	V		
	2440	-59.13	-13	-46.13	-73.29	-67.09	0.64	10.75	V		
	3256	-58.56	-13	-45.56	-74.7	-67.53	0.75	11.87	V		
									V		
									V		
									V		
									V		

Report No. : FG912412C

Remark: Spurious emissions within 30-1000MHz were found more than 20

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			Ľ	TE Band 26	/ 15MHz / QF	PSK			
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)
	1640	-60.42	-13	-47.42	-70.29	-67.35	0.52	9.61	Н
	2456	-60.53	-13	-47.53	-74.03	-68.5	0.65	10.76	Н
	3280	-58.43	-13	-45.43	-74.49	-67.47	0.75	11.94	Н
									Н
									Н
									Н
Lowest									Н
Lowest	1640	-58.20	-13	-45.20	-67.78	-65.13	0.52	9.61	V
	2456	-59.96	-13	-46.96	-74.01	-67.93	0.65	10.76	V
	3280	-58.36	-13	-45.36	-74.47	-67.4	0.75	11.94	V
									V
									V
									V
									V

Report No. : FG912412C

Remark: Spurious emissions within 30-1000MHz were found more than 20

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