

RF Exposure Evaluation

FOR

Medix-Care UK Ltd

Smart Terminal

Test Model: MX15

Additional Model No.: MX15 Lite, MX15 Pro, MX21, MX21 Pro, MX27, MX10-T,
MX10-S

Prepared for	:	Medix-Care UK Ltd
Address	:	5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Prepared by	:	Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	August 07, 2026
Number of tested samples	:	2
Sample No.	:	C260805014-1, C260805014-2
Serial number	:	Prototype
Date of Test	:	August 07, 2026 ~ August 26, 2026
Date of Report	:	August 27, 2026

RF Exposure Evaluation	
Report Reference No.	: LCSC08056011EG
Date of Issue.....	: August 27, 2026
Testing Laboratory Name	: Guangzhou LCS Compliance Testing Laboratory Ltd.
Address.....	: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure	: Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Test Specification	
Standard	: FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091
TRF Originator.....	: Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
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Test Item Description..... : Smart Terminal	
Trade Mark	: N/A
Test Model	: MX15
Ratings.....	: Please Refer to Page 6
Result	: Pass

Compiled by:



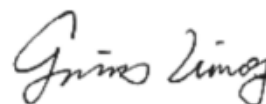
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Supervised by:



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Approved by:



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RF Exposure Evaluation

Test Report No. : LCSC08056011EG	<u>August 27, 2026</u> Date of issue
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Test Model.....	: MX15
EUT.....	: Smart Terminal
Applicant.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Factory.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /

Test Result	Pass
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 27, 2026	Initial Issue	---

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1. Product Information

EUT	: Smart Terminal
Test Model	: MX15
Additional Model No.	: MX15 Lite, MX15 Pro, MX21, MX21 Pro, MX27, MX10-T, MX10-S
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: For EUT: Input:12.0V $\pm$ 5.0A For Adapter Input: 100-240V~, 50/60Hz, 1.5A MAX USB-C Output: 12.0V $\pm$ 5.0A, 60.0W
Hardware Version	: MX15-MX21-MX27_V02
Software Version	: V1.2.17.3.w
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0(DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0(DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.47dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.69dBi(Max.)
NFC	:
Operating Frequency	: 13.56MHz
Modulation Type	: ASK
Antenna Description	: Internal Antenna (Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Mobile Device
Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.	

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1–2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100)*	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Conducted Power

[BT]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	0.68
	39	2441	0.61
	78	2480	0.48
$\pi/4$ DQPSK	0	2402	1.38
	39	2441	1.22
	78	2480	1.14
8DPSK	0	2402	1.58
	39	2441	1.69
	78	2480	1.49

[BLE 1M]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE	0	2402	-1.41
	19	2440	0.69
	39	2480	-1.88

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
11B	1	2412	12.02
	6	2437	12.51
	11	2462	13.52
11G	1	2412	12.68
	6	2437	12.78
	11	2462	12.62
11N20 SISO	1	2412	12.07
	6	2437	12.67
	11	2462	12.59
11N40 SISO	3	2412	13.22
	6	2437	13.22
	9	2462	13.22

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	15.04
	40	5200	14.76
	48	5240	14.7
11N20 SISO	36	5180	14.89
	40	5200	15.23
	48	5240	15.02
11N40 SISO	38	5190	15.52
	46	5230	15.21
11AC20 SISO	36	5180	15.46
	40	5200	15.22
	48	5240	15.16
11AC40 SISO	38	5190	15.44
	46	5230	15.18
11AC80 SISO	42	5210	14.75

[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	149	5745	15.35
	157	5785	15.77
	165	5825	15.86
11N20 SISO	149	5745	14.75
	157	5785	15.85
	165	5825	15.86
11N40 SISO	151	5755	15.53
	159	5795	15.84
11AC20 SISO	149	5745	15.38
	157	5785	15.84
	165	5825	15.9
11AC40 SISO	151	5755	15.56
	159	5795	15.78
11AC80 SISO	155	5775	15.04

Test Procedure

TX frequency range: 13.56MHz, Limit: $824/13.56=60.77\text{V/m}$

Device category: Mobile device (Distance: 20cm)

Max. Field Strength: 52.65dBuV/m @3m

@20cm= $@3\text{m}+40*\log(3/0.2)=99.69\text{dBuV/m}$

For 13.56MHz: $99.69\text{dBuV/m}=10^{(99.69/20)}/10^6=0.096\text{V/m}<60.77\text{V/m}$

6. Manufacturing Tolerance

[BT]

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ -DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.0	1.0	1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.0	1.0	1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[BLE1M]

BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-1.0	0	-1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI]

11B (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	12.0	12.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	12.0	12.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	12.0	12.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	13.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI]

11A (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	14.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 42		
Target (dBm)	14.0		
Tolerance $\pm$ (dB)	1.0		

[5.8G WIFI]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	15.0	15.0	
Tolerance ±(dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0

11AC40 (Average)		
Channel	Channel151	Channel 159
Target (dBm)	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0
11AC80 (Average)		
Channel	Channel155	
Target (dBm)	15.0	
Tolerance $\pm$ (dB)	1.0	

7. Measurement Results

7.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BT]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
GFSK	1.0	1.2589	5.01	3.1696	0.0008	1.0000	0.0008
$\pi/4$ -DQPSK	2.0	1.5849	5.01	3.1696	0.0010	1.0000	0.0010
8-DPSK	2.0	1.5849	5.01	3.1696	0.0010	1.0000	0.0010

[BLE1M]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
GFSK	1.0	1.2589	5.01	3.1696	0.0008	1.0000	0.0008

[2.4G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11b	14.0	25.1189	5.01	3.1696	0.0158	1.0000	0.0158
IEEE 802.11g	13.0	19.9526	5.01	3.1696	0.0126	1.0000	0.0126
IEEE 802.11n HT20	13.0	19.9526	5.01	3.1696	0.0126	1.0000	0.0126
IEEE 802.11n HT40	14.0	25.1189	5.01	3.1696	0.0158	1.0000	0.0158

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	16.0	39.8107	2.47	1.7660	0.0140	1.0000	0.0140
IEEE 802.11n HT20	16.0	39.8107	2.47	1.7660	0.0140	1.0000	0.0140
IEEE 802.11n HT40	16.0	39.8107	2.47	1.7660	0.0140	1.0000	0.0140
IEEE 802.11ac VHT20	16.0	39.8107	2.47	1.7660	0.0140	1.0000	0.0140

IEEE 802.11ac VHT40	16.0	39.8107	2.47	1.7660	0.0140	1.0000	0.0140
IEEE 802.11ac VHT80	15.0	31.6228	2.47	1.7660	0.0111	1.0000	0.0111

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147
IEEE 802.11n HT20	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147
IEEE 802.11n HT40	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147
IEEE 802.11ac VHT20	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147
IEEE 802.11ac VHT40	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147
IEEE 802.11ac VHT80	16.0	39.8107	2.69	1.8578	0.0147	1.0000	0.0147

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

7.2 Simultaneous Transmission MPE Evaluation

The sample support one BT&BLE&2.4GWLAN&5.2GWLAN&5.8GWLAN, another one NFC antenna transmit antenna, so need consider simultaneous transmission; Bluetooth and WIFI cannot transmit simultaneously.

Simultaneous transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$$TER = \sum_{k=1}^{N_s} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field,k}}{MPE_{field,lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD,k}}{MPE_{PD,lim}} \right)$$

$\sum$ of MPE ratios ≤ 1.0

Max MPE ratios1	NFC Ant Max MPE ratios	$\sum$ MPE ratios	Limit	Results
0.0158	0.001579	0.017379	1.000	Pass

8. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

9. Description of Test Facility

CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

10.Measurement Uncertainty

BT&BLE&2.4GWLAN&5.2GWLAN&5.8GWLAN/NFC:

Test Item	Frequency Range	Uncertainty	Note
Output power	1GHz-40GHz	± 0.57 dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----