

EUROFINS PRODUCT SERVICE GMBH



TEST-REPORT

FCC 47 CFR PART 15 SUBPART C IC RSS 210 ISSUE 8

Blood Glucose Meter and Wireless Remote Controller for Insulin Pump

One Touch Ping Verio

FCC ID: VWT315

TEST REPORT NUMBER: G0M-1104-1064-C-1



TABLE OF CONTENTS

1	General Information	3
1.1 1.2 1.3 1.4 1.5 1.6 1.7	Notes Testing laboratory Details of approval holder Application details Acronyms and abbreviations Test standards Test item Additional information	3 4 5 5 5 6 6 6
2	Technical test	7
2.1 2.2 2.3 2.4 2.5	Summary of test results Test environment Test equipment utilized Sample emission level calculation Test results	7 7 8 9 10
3	Informational Transmitter parameters	11
3.1	Occupied Bandwidth	11
4	Transmitter parameters	12
4.1 4.2	Fundamental field strength emissions Emission radiated outside the specified frequency band	12 15
5	Receiver parameters	18
5.1	Receiver spurious emissions	18
6	Power Line parameters	20
6.1	AC power line conducted emissions	20
Annex A Annex B Annex C Annex D Annex E Annex F	Photos Transmitter occupied bandwidth Fundamental field strength emissions Transmitter radiated spurious emissions Receiver radiated spurious emissions AC Power line Conducted Emissions	21 26 29 36 67



1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

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Operator:				
08.06.2011		B. Pudell		
Date	Eurofins-Lab.	Name	Signature	
Technical res	ponsibility for area	of testing:		
08.06.2011		T. Jahn		
Date	Eurofins	Name	Signature	



1.2 Testing laboratory

EUROFINS PRODUCT SERVICE GMBH Storkower Strasse 38c D-15526 Reichenwalde b. Berlin Germany

Telephone :+49 33631 888 00 Telefax :+49 33631 888 660

DAKKS ACCREDITED TESTING LABORATORY

DAKKS-REGISTRATION NUMBER: D-PL-12092-01-01

RECOGNIZED NOTIFIED BODY EMC

REGISTRATION NUMBER: BNetzA-bS EMV-07/61

RECOGNIZED NOTIFIED BODY R&TTE

REGISTRATION NUMBER: BNetzA-bS-02/51-53

FCC FILED TEST LABORATORY

Reg.-No. 96970

A2LA ACCREDITED TESTING LABORATORY

CERTIFICATE No. 1983.01

BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)

ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

INDUSTRY CANADA FILED TEST LABORATORY

Reg. No. IC 3470

Test location, where different:

 Name
 : ./.

 Street
 : ./.

 Town
 : ./.

 Country
 : ./.

 Telephone
 : ./.

 Fax
 : ./.



1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

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Operator:			
08.06.2011		B. Pudell	J. Pudel
Date	Eurofins-Lab.	Name	Signature
Technical resp	oonsibility for area of	testing:	$-\mathcal{M}$
08.06.2011		T. Jahn	7: /
Date	Eurofins	Name	Signature



1.6 Test standards

Technical standard : ☐ FCC 47 CFR PART 15 SUBPART C

◯ IC RSS 210 ISSUE 8

1.7 Test item

Description of test item : Blood Glucose Meter and Wireless Remote Controller

for Insulin Pump

Type identification : One Touch Ping Verio
Brand Name : One Touch Ping Verio

Serial number : Unspecified

Hardware version : 2A
Software version : None

Equipment type : End product

Technical data

Radio type : Transceiver
Radio technology : Unspecified
Frequency range : 903 - 922MHz
Assigned frequency band : 902 - 928MHz

Tested frequencies : F_1 903.0MHz Tested frequencies : F_2 911.5MHz Tested frequencies : F_3 921.3MHz

Antenna type(s) : integral
Antenna model(s) : Unspecified

Number of antennas : 1

Antenna gain(s) : Unspecified

Power supply : 3.0VDC

Duty cycle(s) : 100%

Operating mode(s) : semi duplex

Spreading technique : None

Modulation(s) : Frequency

Device classification : Portable Device (Human Body distance < 20 cm)

1.8 Additional information

None



2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	×
or	
The deviations as specified in 2.5 were ascertained in the course of the tests performed.	

2.2 Test environment

Temperature : 22 ... 26°C

Relative humidity content : 20 ... 75%

Air pressure : 86 ... 103kPa

Extreme conditions parameters:

 $\begin{array}{cccc} V_{nom} & & \vdots & 3.0 VDC \\ V_{min} & & \vdots & N/A \\ V_{max} & & \vdots & N/A \end{array}$

 T_{nom} : 25°C

Other parameter: None



2.3 Test equipment utilized

	Measurement Equipment List						
No.:	Measurement device:	Type:	Manufacturer:	Last Cal.	Next Cal.		
ETS 0086	Semi-anechoic chamber	AC1	Frankonia	12.03.2010	12.03.2011		
ETS 0271	Spectrum Analyzer	FSEK30	Rohde & Schwarz	19.03.2009	19.03.2011		
ETS 0030	Biconical Antenna	HK 116	Rohde & Schwarz	10.02.2011	20.02.2012		
ETS 0295	LPD Antenna	HL 223	Rohde & Schwarz	09.02.2011	09.02.2012		
ETS 0018	Horn Antenna	BBHA 9120D	Schwarzbeck	26.08.2010	26.08.2011		
ETS 0432	Amplifier-Matrix			02.06.2010	02.06.2012		
ETS 0496	Spectrum Analyzer	FSP30	Rohde & Schwarz	26.08.2010	26.08.2011		
ETS 0288	LISN	ESH2-Z5	Rohde & Schwarz	07.09.2010	07.09.2012		



2.4 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in $dB\mu V$. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyzer ($dB\mu V$) + A.F. (dB) = Net field strength ($dB\mu V/m$)

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of $dB\mu V/m$). The FCC limits are given in units of $\mu V/m$. The following formula is used to convert the units of $\mu V/m$ to $dB\mu V/m$:

Limit (dB μ V/m) = 20*log (μ V/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF = Net Reading : Net reading - FCC limit = Margin 21.5 dB μ V + 26 dB = 47.5 dB μ V/m : 47.5 dB μ V/m - 57.0 dB μ V/m = -9.5 dB



2.5 Test results

Test case Clause		Required	Result	Remarks				
INFORMATIONAL TRANSMITT	INFORMATIONAL TRANSMITTER PARAMETERS							
Occupied Bandwidth	IC RSS-Gen. 4.6.1							
TRANSMITTER PARAMETERS								
Fundamental field strength emissions	FCC § 15.249(a) IC RSS-210 A2.9(a)	⊠	PASS					
Emission radiated outside the specified frequency band	FCC § 15.249(d) FCC § 15.209 IC RSS-210 A2.9(b)		PASS					
RECEIVER PARAMETERS								
Radiated spurious emissions	IC RSS-Gen § 4.10 IC RSS-Gen § 6.1	⊠	PASS					
POWER LINE PARAMETERS	POWER LINE PARAMETERS							
AC power line conducted emissions	FCC § 15.207 IC RSS-Gen. 7.2.4	⊠	PASS					

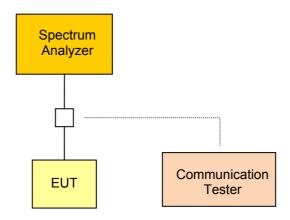


3 Informational Transmitter parameters

3.1 Occupied Bandwidth

According RSS-Gen Section 4.6.1 the 99% emission bandwidth occupied by the modulated transmitted signal has to be reported as calculated or measured.

3.1.1 Measurement procedure



The EUT is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with maximum power under normal test conditions. The span of the analyzer is set wide enough to capture all significant emissions of the modulation spectrum. The resolutions bandwidth is set as close as possible to 1% of the selected span without being below 1%. The occupied bandwidth is than measured evaluated by an internal measurement procedure of the analyzer.

3.1.2 Results

Transmitter occupied bandwidth						
Measurement C	onditions					
Power occupation	on	99%	%			
Channel [MHz]	Lower edge frequency [MHz]	Upper edge frequency [MHz]	Occupied Bandwidth [MHz]			
903.0	902.885	903.165	0.280			
911.5	911.415	911.715	0.301			
921.3	921.175	921.455	0.280			
See attached diagram in Annex						
	Verdict PASS					



4 Transmitter parameters

4.1 Fundamental field strength emissions

According FCC rules 47 CFR 15.249(a)(1) and RSS-210 Section A2.9(a) the maximum emitted field strength at 3 meters is limited and has be verified.

4.1.1 Limits

The field strength measured at 3 metres shall not exceed the limits in the following table:

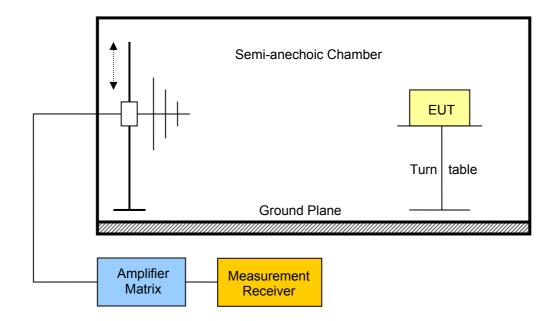
Maximum emitted field strength					
Frequency range	Fundamental field strength @ 3m				
902 – 928MHz	50mV/m 94dBμV/m average 114dBμV/m peak				
2400 – 2483.5MHz	50mV/m 94dBμV/m average 114dBμV/m peak				
5725 – 5875MHz	50mV/m 94dBµV/m average 114dBµV/m peak				

According to FCC rules the limits given in the table are average limits for frequencies above 1GHz. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

According to RSS-210 the limits shown in the above table are based on measurements using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.



4.1.2 Measurement procedure



The EUT is placed on a table in a semi-anechoic chamber. The EUT is activated with the transmission modes stated in the test report. The emission level of all emission up to the 10th harmonic is scanned. In the frequency range below 1GHz a resolution bandwidth of 100kHz is used and above 1GHz a resolution bandwidth of 1MHz is used. To obtain the peak emission level the EUT is rotated through 360° and the height of the measurement antenna changed.



4.1.3 Results

Fundamental maximum field strength emissions @ 3m						
Emission [MHz]	Max. field strength [dΒμV/m]	Detector	Limit [dBµV/m]	Margin [dB]		
903.0	84.97	peak	94	-9.03		
911.5	84.97	peak	94	-9.03		
921.3	84.56	peak	94	-9.44		
	See attached diagrams in Annex					
	Measurement uncertainty 4.22dB					
Verdict PAS						

Comment: Due to the fact that the peak emission field-strength is below the average/quasi-peak emission limit, the corresponding average/quasi-peak measurement has been omitted and compliance with the limits is shown for the peak emissions.

The emission levels of higher order harmonics are verified in the following section.



4.2 Emission radiated outside the specified frequency band

According FCC rules 47 CFR 15.209, 15.249(d) and RSS-210 Section A2.9(b) unwanted emissions in the spurious domain are power limited and has to be validated.

4.2.1 Limits

The field strength measured at 3 metres shall not exceed the limits in the following table:

Maximum emitted field strength					
Frequency range	Field strength of harmonics				
902 – 928MHz	500μV/m 54dBμV/m average 74dBμV/m peak				
2400 – 2483.5MHz	500μV/m 54dBμV/m average 74dBμV/m peak				
5725 – 5875MHz	500μV/m 54dBμV/m average 74dBμV/m peak				

According to FCC rules the limits given in the table are average limits for frequencies above 1GHz. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

According to RSS-210 the limits shown in the above table are based on measurements using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.

Except the higher order harmonics, emission radiated outside the specified frequency band shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in 15.209 / RSS-Gen, whichever is less stringent.

General spurious emission limits						
Frequency range [MHz]	Detector	Limit [µV/m]	Calculated Limit 3m [dBµV/m]	Measurement Distance [m]		
30 – 88	Quasi-Peak	100	40	3		
88 – 216	Quasi-Peak	150	43.5	3		
216 – 960	Quasi-Peak	200	46	3		
960 – 1000	Quasi-Peak	500	54	3		
> 1000	Average	500	54	3		

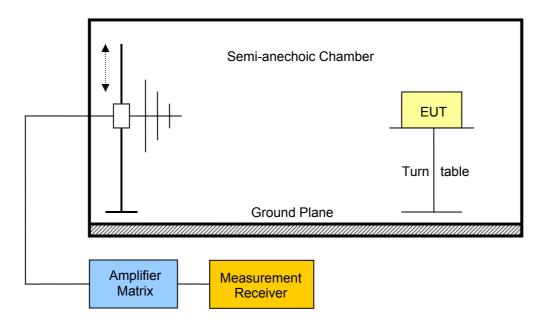
Test Report No.: G0M-1104-1064-C-1



When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Measurement procedure

The spurious emission measurement is performed on 3m a semi-anechoic test site.



The EUT is placed on a non-metallic table. Any emission is received by the measurement antenna and measured via a measurement receiver connected to the antenna. To obtain the maximum emission the EUT is rotated through 360°.

Due to practical reasons the spurious emission level check is first performed with a peak detector and the quasi-peak and average limits.

If any emission is detected that gets close to the emission limit the detector is changed and the quasi-peak or average detector is used. Which detector is used is determined by the emission frequency. If pulsed transmission is used, averaging over the pulse train is used.

The measurement values are also corrected to obtain the field strength values at the defined measurement distances of the emission limits.

The measurement is performed over the frequency range of 30MHz up to the tenth harmonic.



4.2.2 Results

Transmitter radiated spurious emissions							
Measuremen	t Conditions						
Measuremen	Measurement distance 3m						
Modulated			⊠ Ye	es 🗆 No			
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Polarization Measured Field Strength [dBμV/m] Limit@3m [dBμV/m] Detector [dB]				
903	902	V	41.69	46	peak	-4.31	
903	902	h	44.94	46	peak	-1.06	
903	5419	h	41.18	54	peak	-12.82	
911	932	h	28.15	46	peak	-17.85	
911	5467	h	41.44	54	peak	-12.56	
921	931	V	30.89	46	peak	-15.11	
921	5523	h	41.63	54	peak	-12.37	
See attached diagrams in Annex							
Verdict PASS							

Comment: Due to the fact that the peak emission field-strength is below the average/quasi-peak emission limit, the corresponding average/quasi-peak measurement has been omitted and compliance with the limits is shown for the peak emissions.



5 Receiver parameters

5.1 Receiver spurious emissions

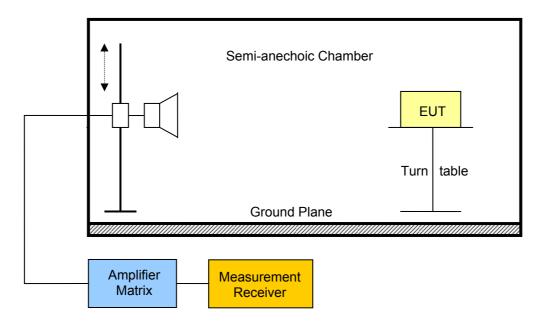
According RSS-Gen Section 4.9 the emissions of unintentional radiators have to comply with limits stated in the rules.

5.1.1 Limits

Receiver spurious emission limits @ 3m							
Frequency range [MHz]	Detector	Limit@3m [µV/m]	Calculated Limit @ 3m [dBµV/m]	Measurement Distance [m]			
30 – 88	Quasi-Peak	100	40	3			
88 – 216	Quasi-Peak	150	43.5	3			
216 – 960	Quasi-Peak	200	46	3			
960 – 1000	Quasi-Peak	500	54	3			
> 1000	Average	500	54	3			

5.1.2 Measurement procedure

The spurious emission measurement is performed on a 3m test site.



The EUT is placed on a non-metallic table. Any emission is received by a loop antenna and measured via a measurement receiver connected to the loop antenna. To obtain the maximum emission the EUT is rotated through 360°.



Due to practical reasons the spurious emission level check is first performed with a peak detector and the quasi-peak and average limits.

If any emission is detected that gets close to the emission limit the detector is changed and the quasi-peak or average detector is used. Which detector is used is determined by the emission frequency. If pulsed transmission is used, averaging over the pulse train is used.

The measurement values are also corrected to obtain the field strength values at the defined measurement distances of the emission limits.

The measurement is performed over the frequency range of 30MHz up to the 3rd harmonic.

5.1.3 Results

Receiver spurious Emissions								
Measurement Conditions								
Measurement distance		3m						
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Measured Field Strength [µV/m]	Limit@3m [µV/m]	Detector	Margin [μV/m]		
911	897	V	50.35	200	peak	-149.65		
911	899	h	51.52	200	peak	-148.48		
See attached diagrams in Annex								
Verdict					PASS			

Comment: Due to the fact that the peak emission field-strength is below the average/quasi-peak emission limit, the corresponding average/quasi-peak measurement has been omitted and compliance with the limits is shown for the peak emissions.



6 Power Line parameters

6.1 AC power line conducted emissions

According FCC rules 47 CFR 15.207 and RSS-Gen Section 7.2.2 for any intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits given below.

6.1.1 Limits

AC power line emission limits						
Francisco (MII-1	Conducted Limit [dBµV]					
Frequency [MHz]	Quasi-Peak	Average				
0.15 – 0.5	66 to 56	56 to 46				
0.5 - 5	56	46				
5 - 30	60	50				

6.1.2 Measurement procedure

The ac power line emissions are measured using a $50\mu H$ / 50Ω line impedance stabilization network (LINS). The radio frequency voltage between each power line and ground at the power terminal is measured.

6.1.3 Results

AC power line emissions			
Conducted emission level			
See attached Diagram			
Verdict	PASS		



Annex B Transmitter occupied bandwidth

RSS Gen Occupied Bandwidth

EUT Blood glucose meter

Model Titan

Approval Holder LifeScan Scotland Ltd. / Ord.: G0M-1104-1064

Temperature / Voltage tnom / Vnom

Test Site / Operator Eurofins Product Service GmbH / Mr. Treffke

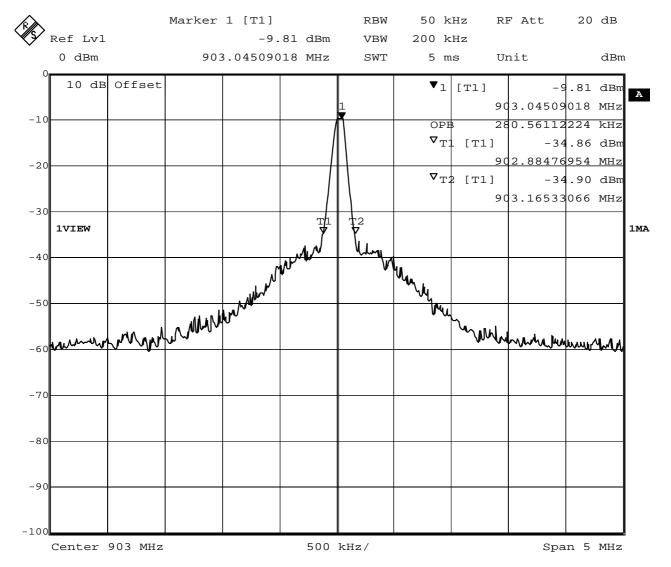
Test Specification 4.4.1 Occupied Bandwidth

Comment 1 Channel.: 1

Comment 2 A spectrum analyzer with an integrated 99% power bandwidth function is

used

Comment 3 OBW=280.5kHz



Comment A: Occupied bandwidth: 280.6 KHz

Date: 20.MAY.2011 08:47:12



RSS Gen Occupied Bandwidth

EUT Blood glucose meter

Model Titan

Approval Holder LifeScan Scotland Ltd. / Ord.: G0M-1104-1064

Temperature / Voltage tnom / Vnom

Test Site / Operator Eurofins Product Service GmbH / Mr. Treffke

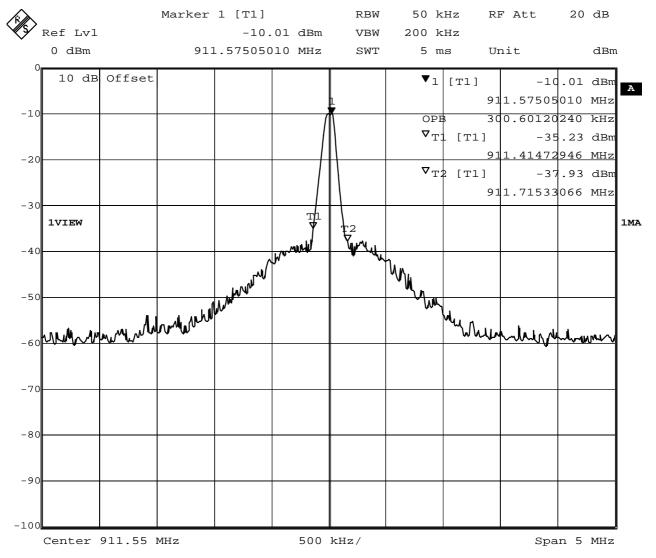
Test Specification 4.4.1 Occupied Bandwidth

Comment 1 Channel.: 8

Comment 2 A spectrum analyzer with an integrated 99% power bandwidth function is

used

Comment 3 OBW=300.6kHz



Comment A: Occupied bandwidth: 300.6 KHz

Date: 20.MAY.2011 08:53:15



RSS Gen Occupied Bandwidth

EUT Blood glucose meter

Model Titan

Approval Holder LifeScan Scotland Ltd. / Ord.: G0M-1104-1064

Temperature / Voltage tnom / Vnom

Test Site / Operator Eurofins Product Service GmbH / Mr. Treffke

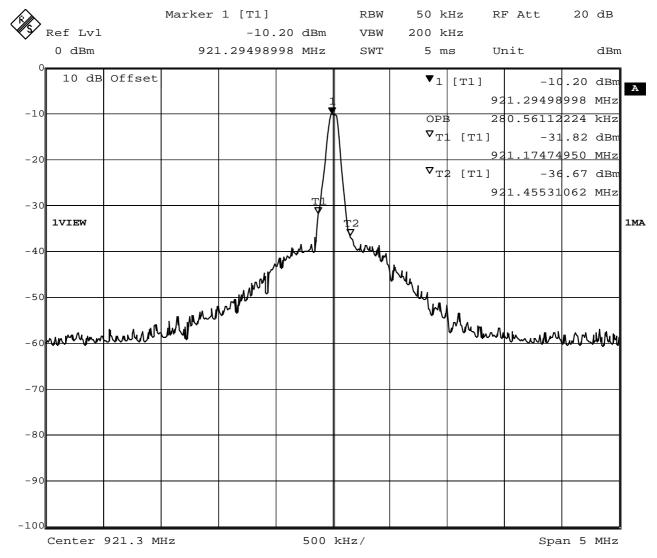
Test Specification 4.4.1 Occupied Bandwidth

Comment 1 Channel.: 16

Comment 2 A spectrum analyzer with an integrated 99% power bandwidth function is

used

Comment 3 OBW=280kHz



Comment A: Occupied bandwidth: 280.6 KHz

Date: 20.MAY.2011 08:51:15



Annex C Fundamental field strength emissions

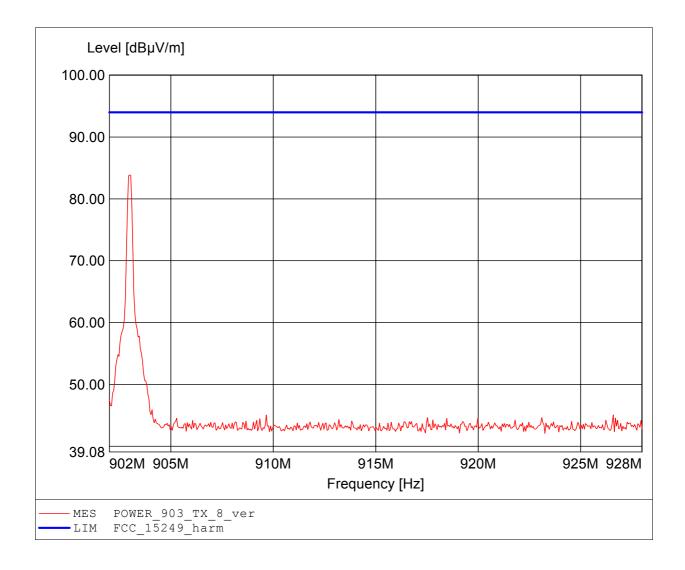
Test Report No.: G0M-1104-1064-C-1

FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 902.990MHz, Emax: 83.89dBuV/m, RBW: 100kHz Comment 2:

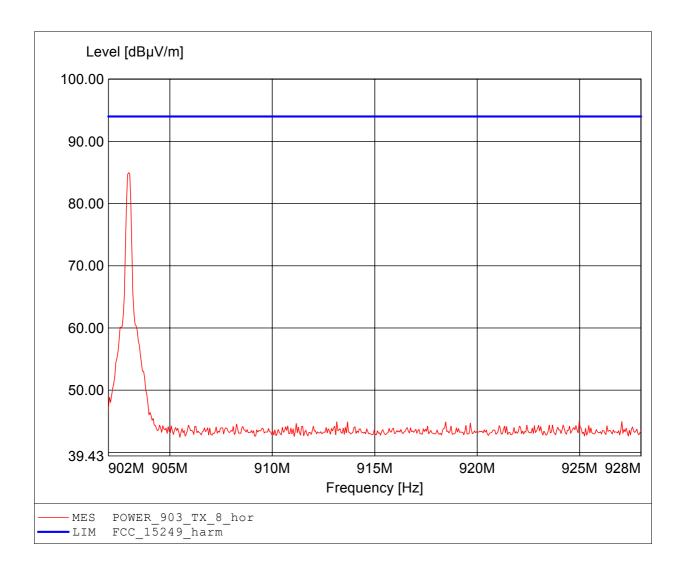


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 902.990MHz, Emax: 84.97dBuV/m, RBW: 100kHz Comment 2:

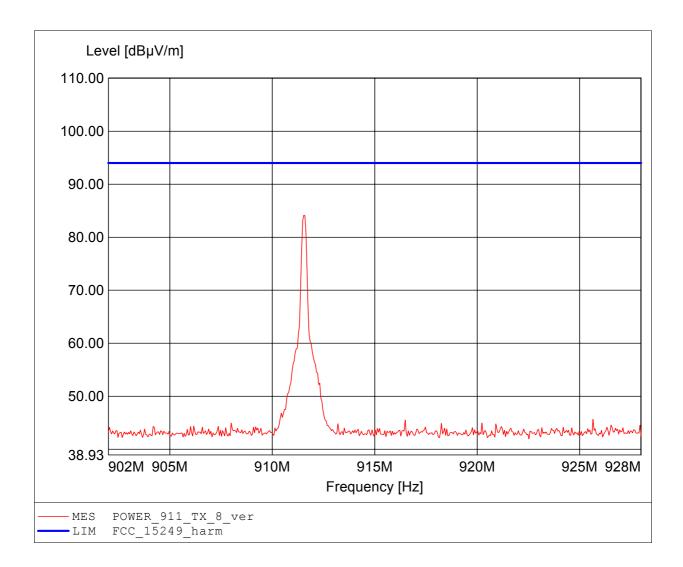


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 911.535MHz, Emax: 84.13dBuV/m, RBW: 1MHz Comment 2:

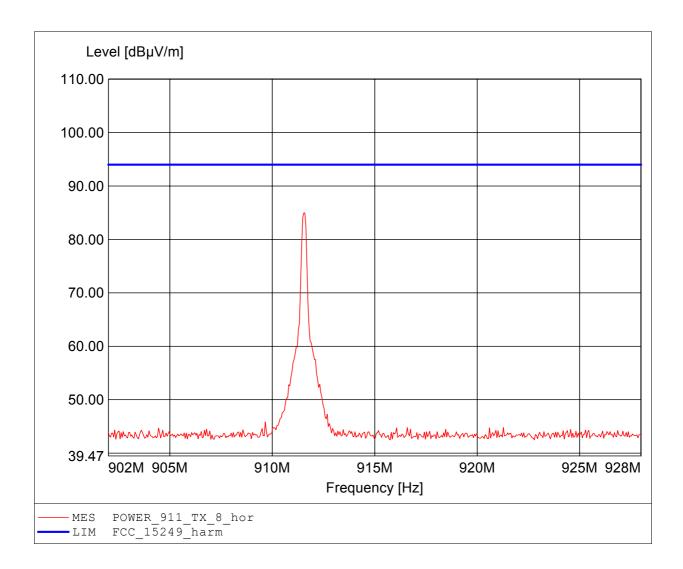


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 911.535MHz, Emax: 84.97dBμV/m, RBW: 1MHz Comment 2:



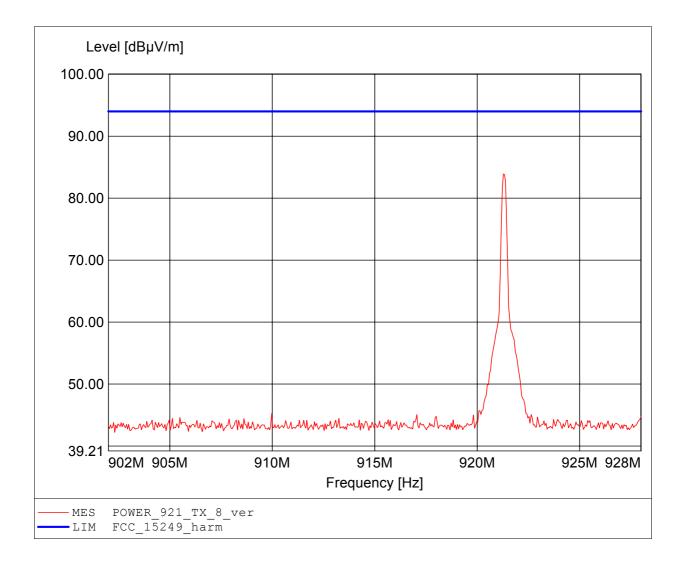
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 921.279MHz, Emax: 83.89dBuV/m, RBW: 100kHz Comment 2:



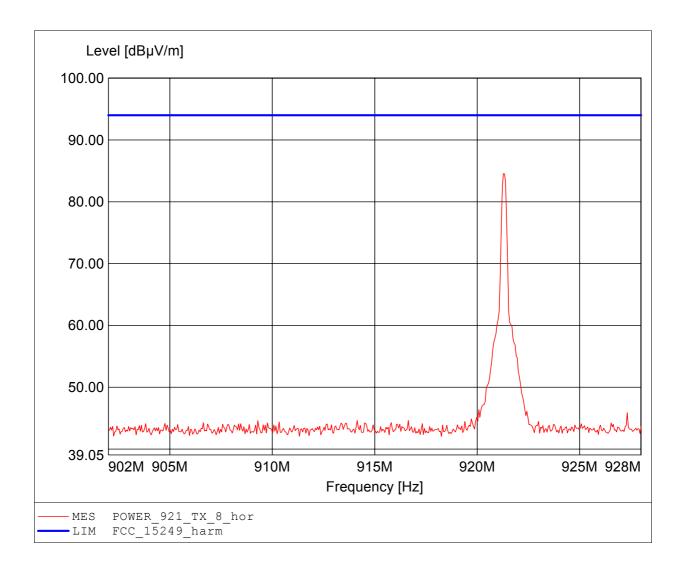
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921 Comment 1: Dist.: 3m, Ant.: HL 223 Comment 1:

Freq: 921.279MHz, Emax: 84.56dBuV/m, RBW: 100kHz Comment 2:





Annex D Transmitter radiated spurious emissions

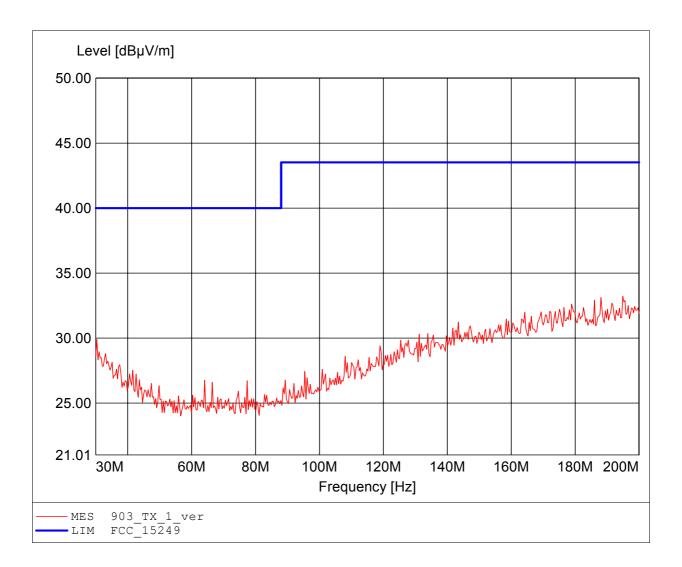
Test Report No.: G0M-1104-1064-C-1

FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HK 116

Freq: 194.890MHz, Emax: 33.22dBuV/m, RBW: 100kHz Comment 2:

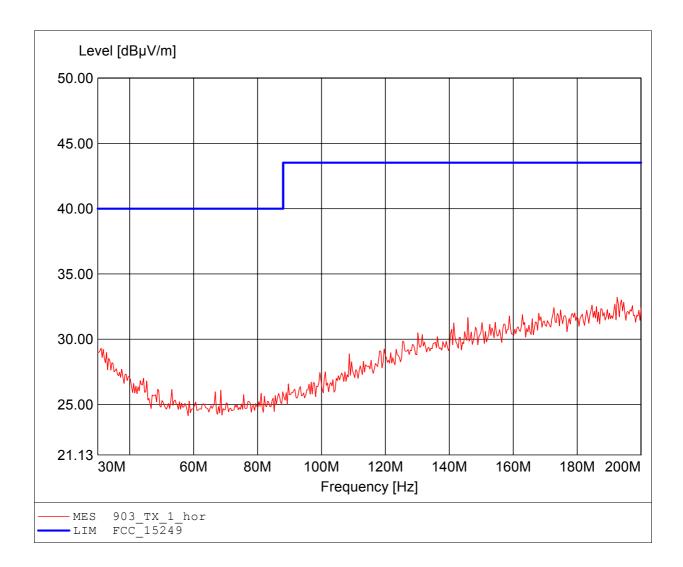


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HK 116

Freq: 192.505MHz, Emax: 33.22dBuV/m, RBW: 100kHz Comment 2:

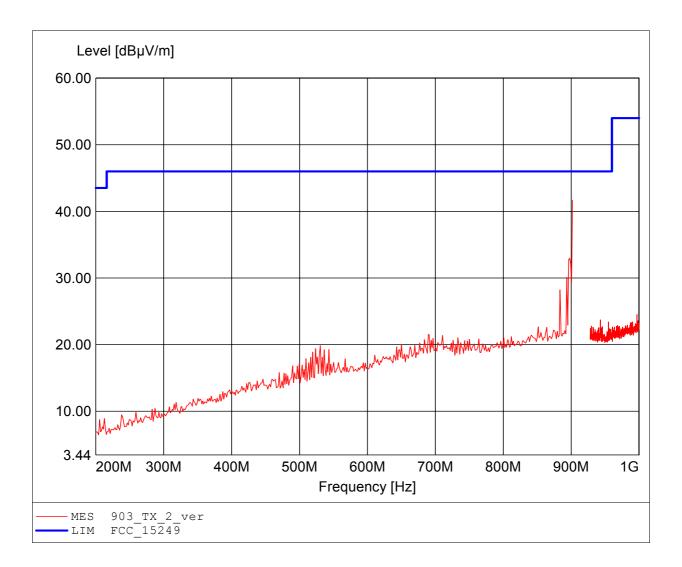


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Freq: 902.000MHz, Emax: 41.69dBuV/m, RBW: 100kHz Comment 2:

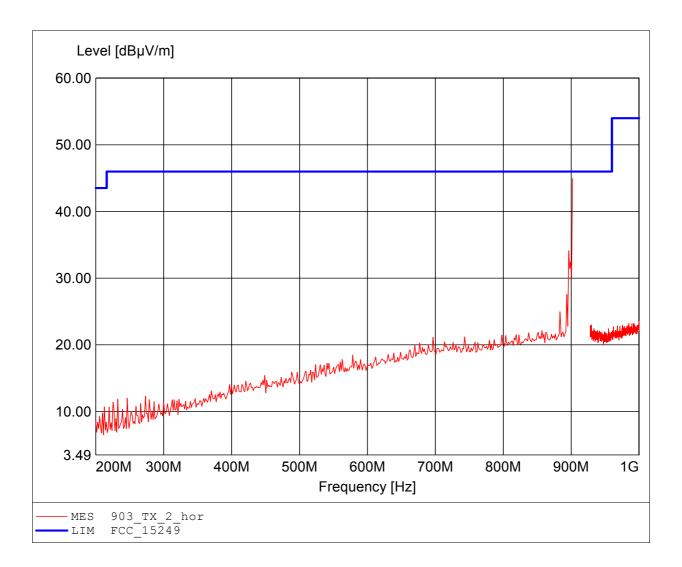


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

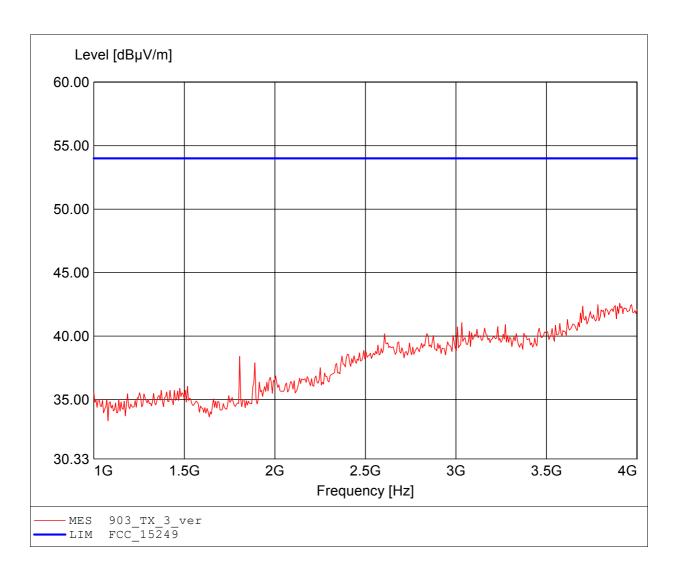
Freq: 902.000MHz, Emax: 44.94dBuV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

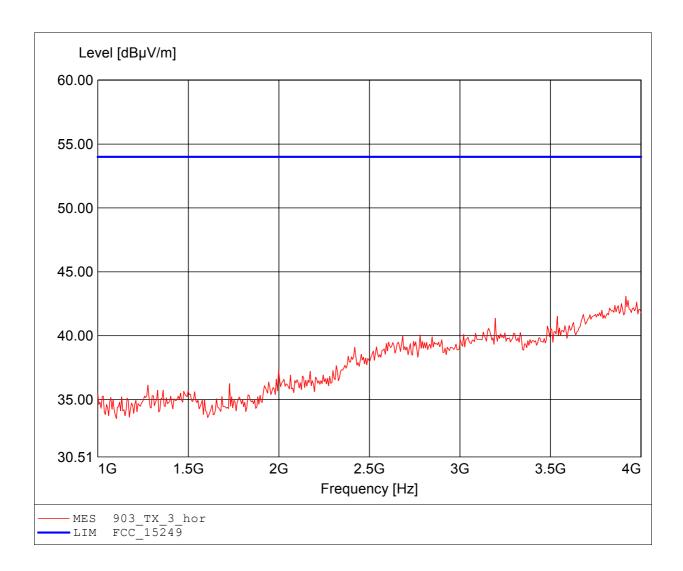
Test Specification: Freq. / CH: 903
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.904GHz, Emax: 42.59dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.916GHz, Emax: 43.08dBµV/m, RBW: 1MHz



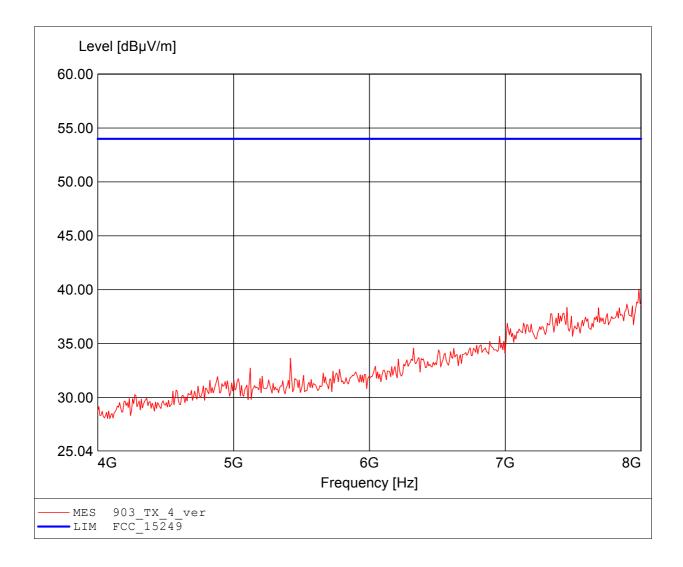
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 7.984GHz, Emax: 40.06dBuV/m, RBW: 1MHz Comment 2:

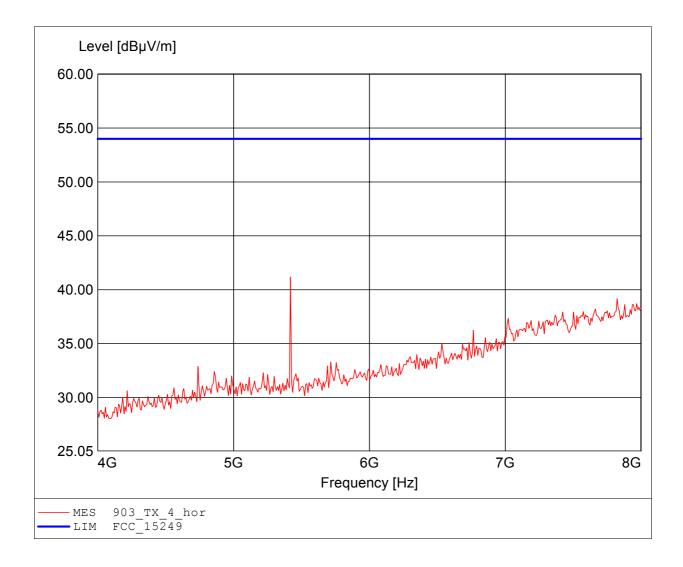


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903 Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Freq: 5.419GHz, Emax: 41.18dBuV/m, RBW: 1MHz Comment 2:



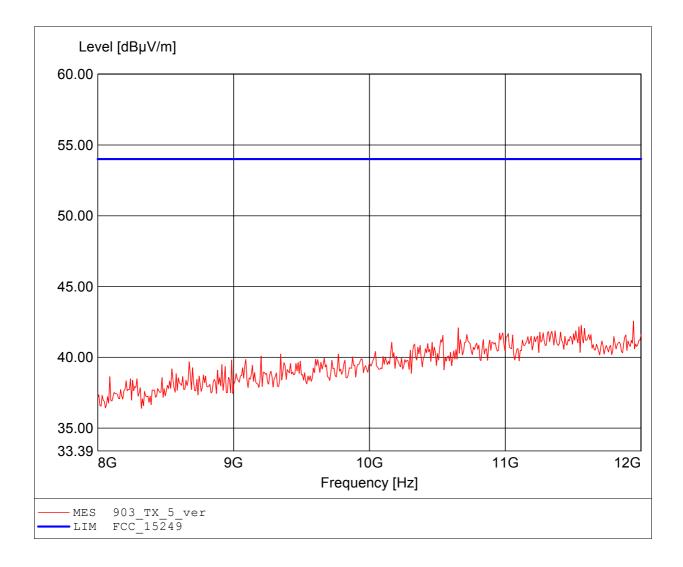
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.944GHz, Emax: 42.57dBµV/m, RBW: 1MHz Comment 2:



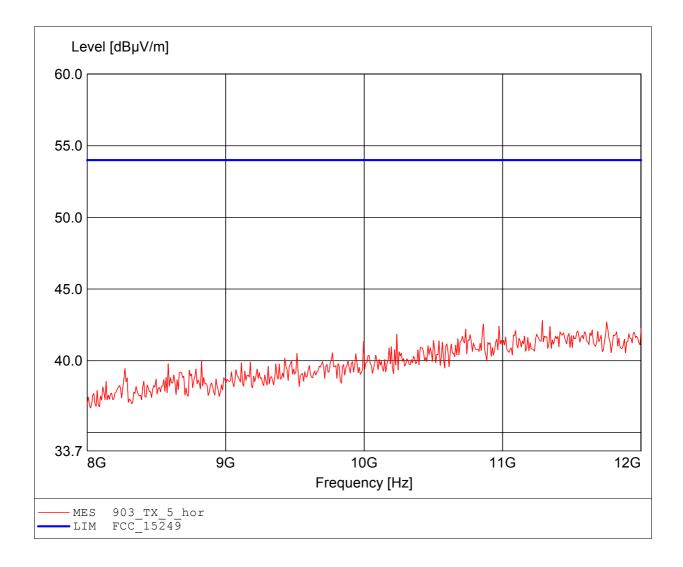
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 1 / Freq: 903MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 903

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.287GHz, Emax: 42.80dBµV/m, RBW: 1MHz Comment 2:

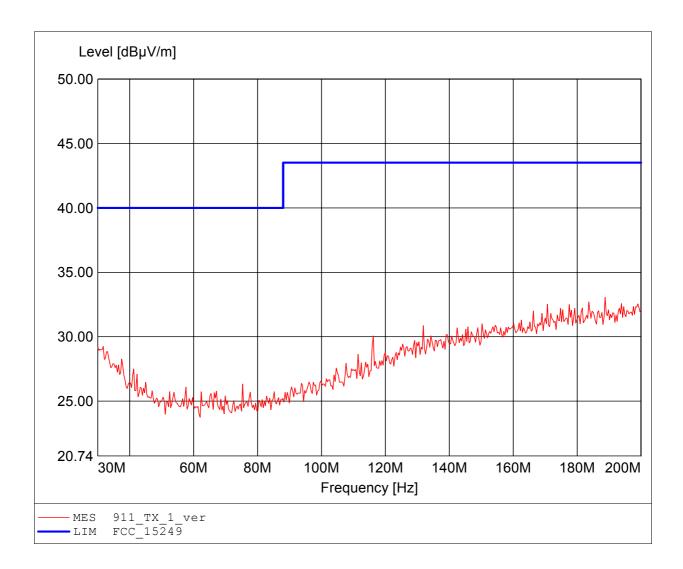


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911 Comment 1: Dist.: 3m, Ant.: HK 116

Freq: 188.758MHz, Emax: 33.06dBuV/m, RBW: 100kHz Comment 2:

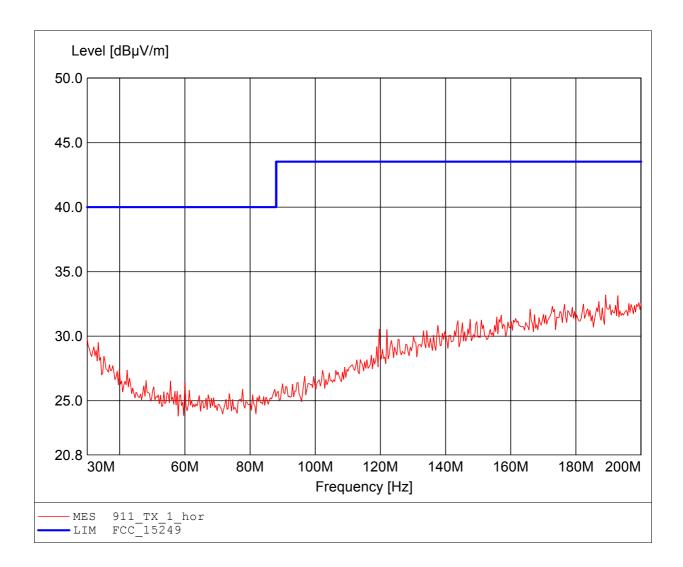


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911 Comment 1: Dist.: 3m, Ant.: HK 116

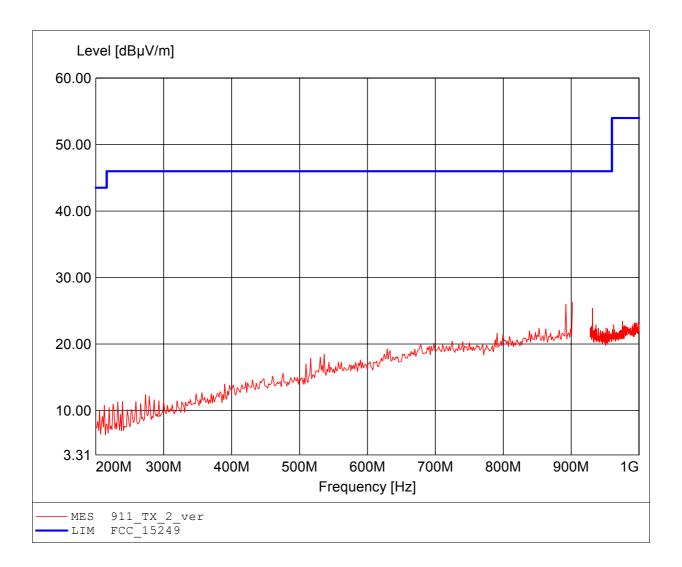
Freq: 189.098MHz, Emax: 33.19dBuV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 902.000MHz, Emax: 26.30dBµV/m, RBW: 100kHz

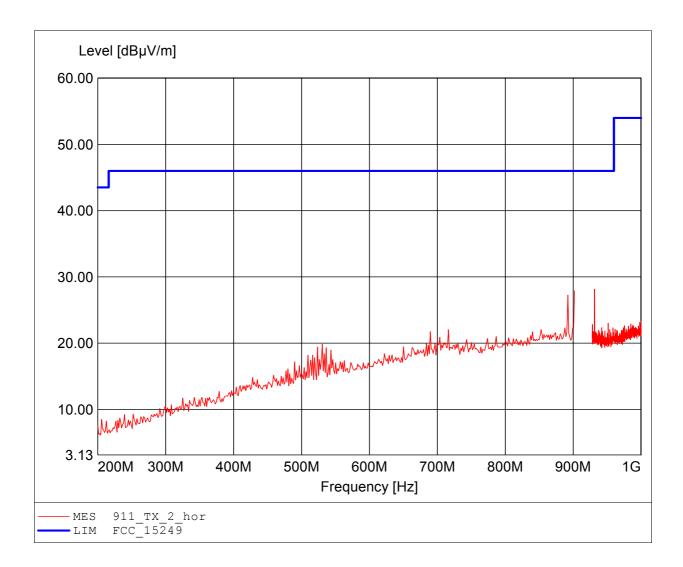


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

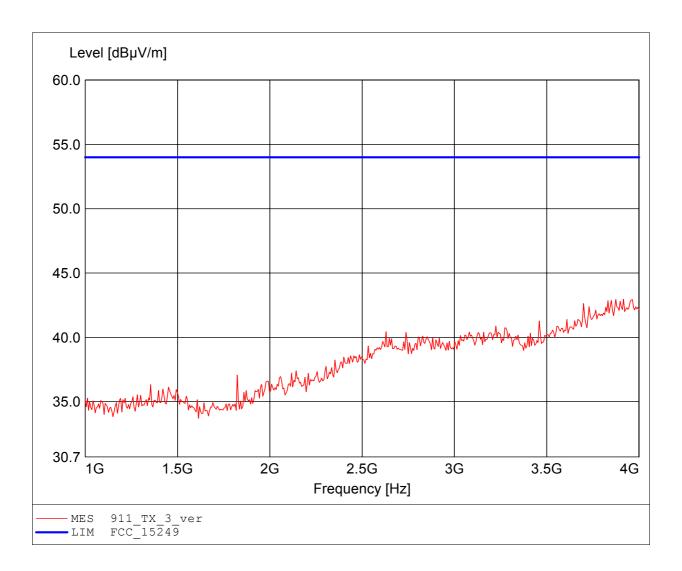
Freq: 931.463MHz, Emax: 28.15dBuV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery) Test Condition:

Test Specification: Freq. / CH: 911
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.916GHz, Emax: 42.96dBµV/m, RBW: 1MHz

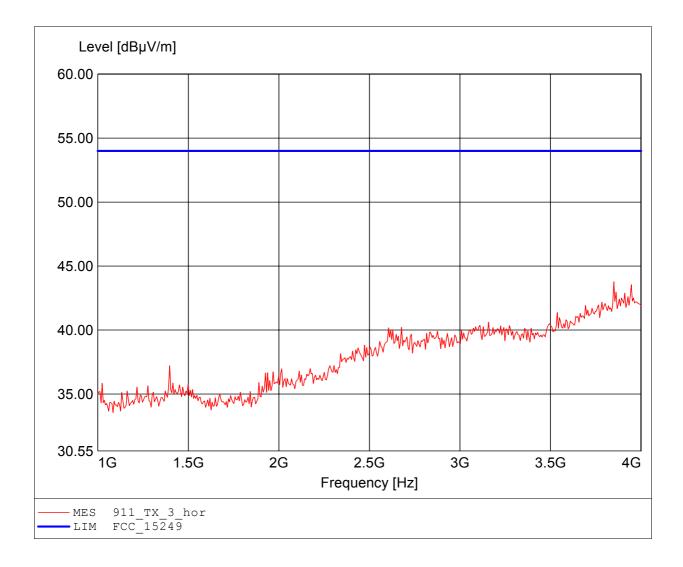


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.

Freq: 3.850GHz, Emax: 43.77dBµV/m, RBW: 1MHz Comment 2:



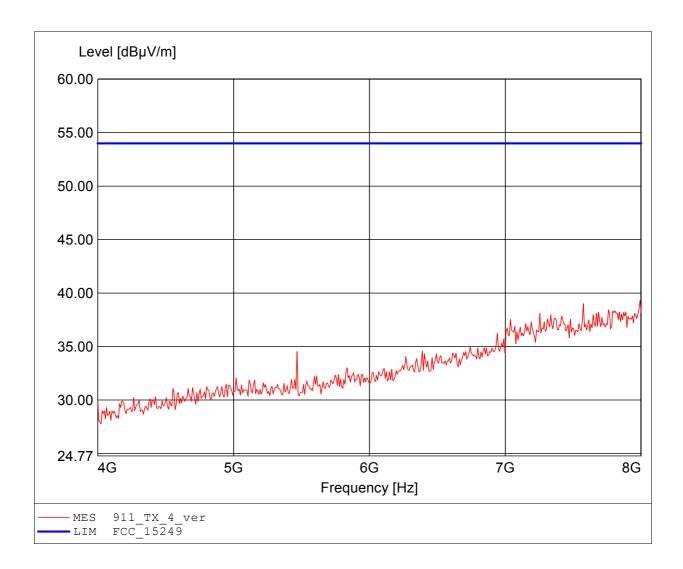
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 7.992GHz, Emax: 39.31dBuV/m, RBW: 1MHz Comment 2:



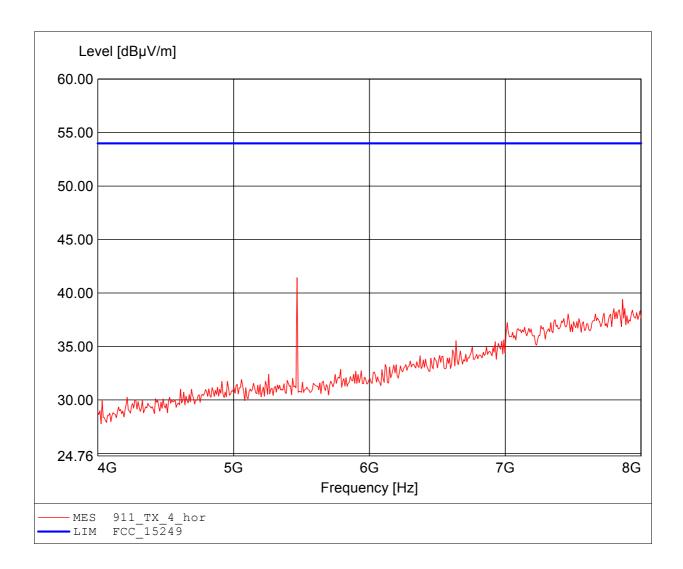
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 5.467GHz, Emax: 41.44dBuV/m, RBW: 1MHz Comment 2:



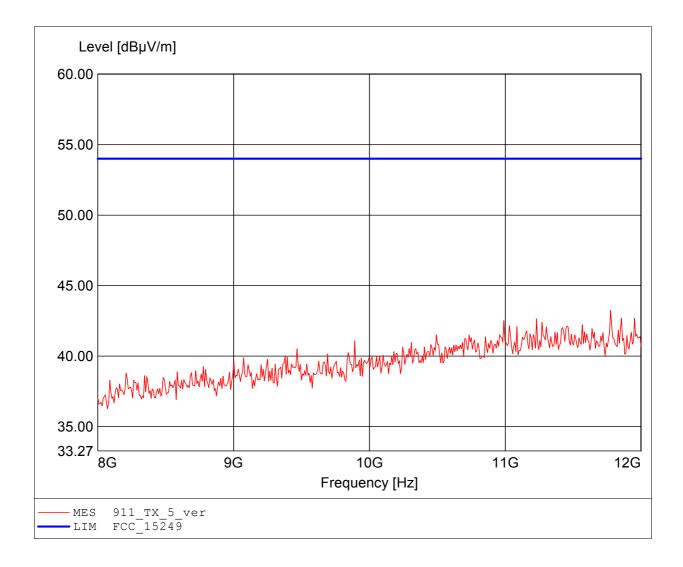
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.776GHz, Emax: 43.24dBµV/m, RBW: 1MHz Comment 2:



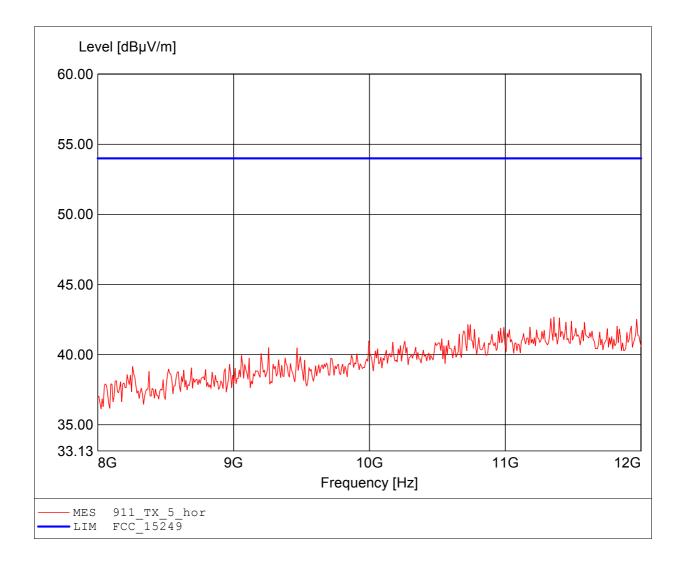
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 911

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.359GHz, Emax: 42.67dBµV/m, RBW: 1MHz Comment 2:



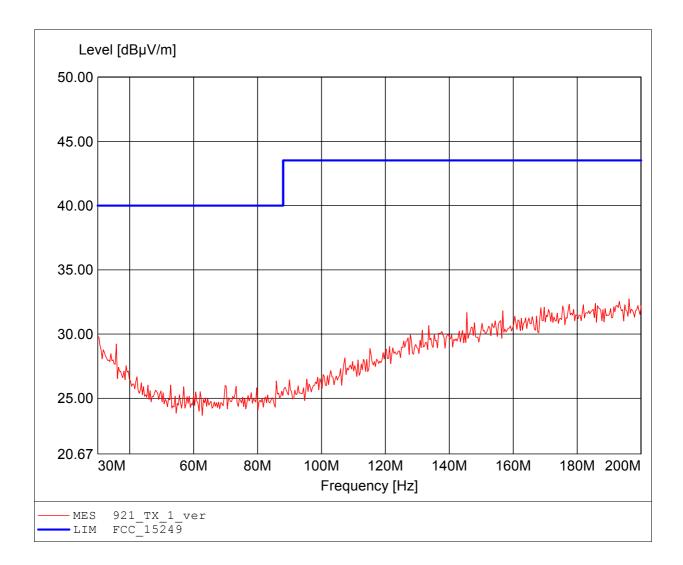
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921 Comment 1: Dist.: 3m, Ant.: HK 116

Freq: 196.253MHz, Emax: 32.75dBuV/m, RBW: 100kHz Comment 2:

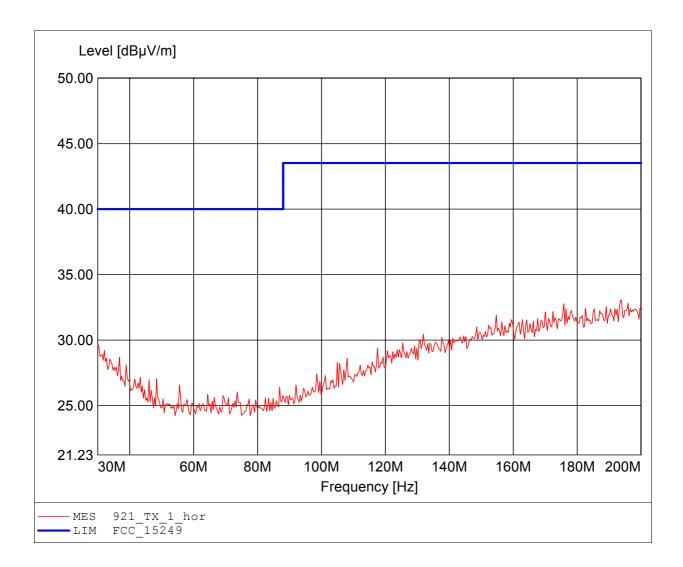


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921 Comment 1: Dist.: 3m, Ant.: HK 116

Freq: 193.868MHz, Emax: 33.06dBuV/m, RBW: 100kHz Comment 2:

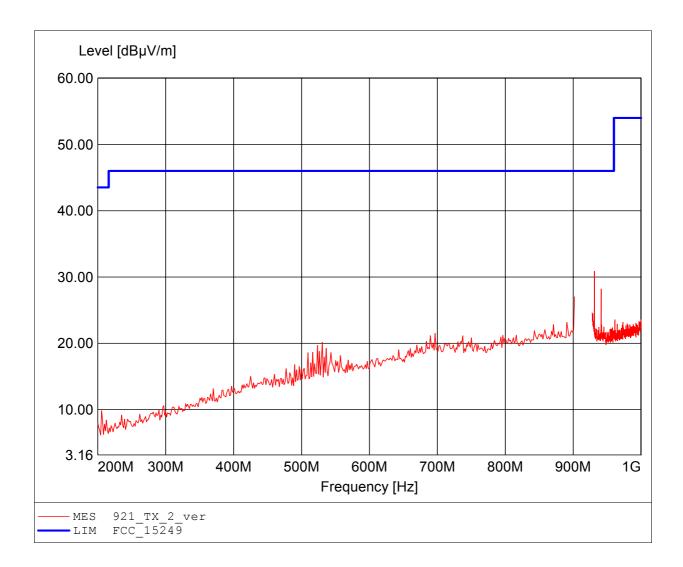


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 931.174MHz, Emax: 30.89dBµV/m, RBW: 100kHz



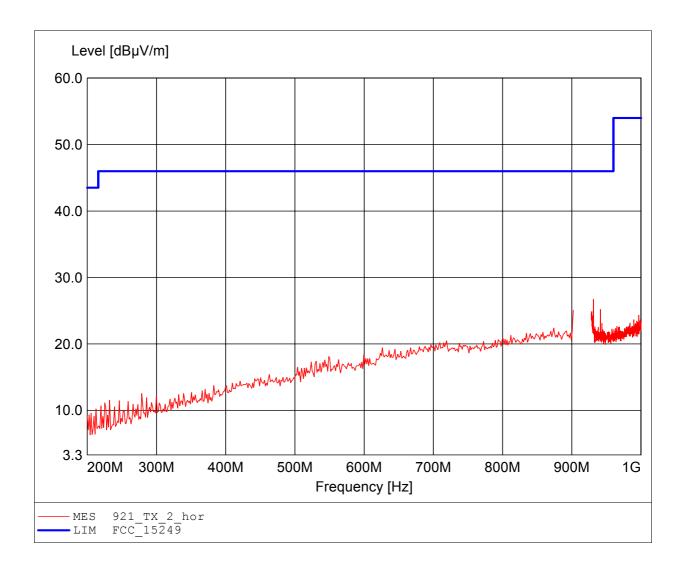
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921 Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Freq: 931.174MHz, Emax: 26.71dBuV/m, RBW: 100kHz Comment 2:

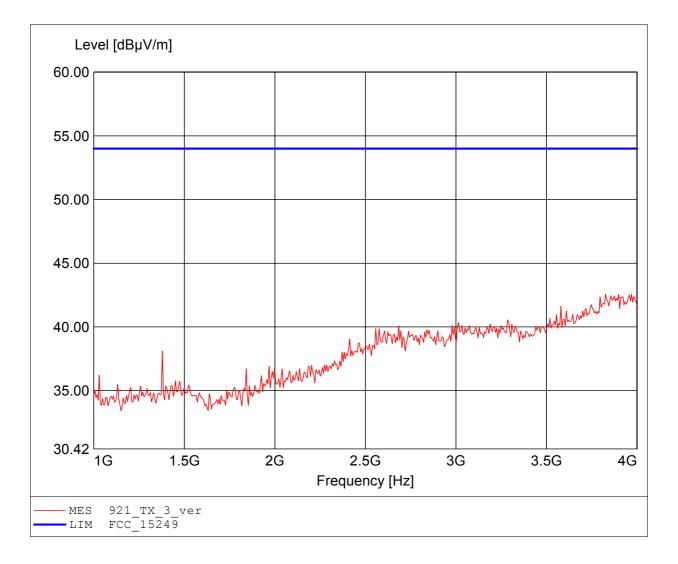


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.826GHz, Emax: 42.57dBµV/m, RBW: 1MHz



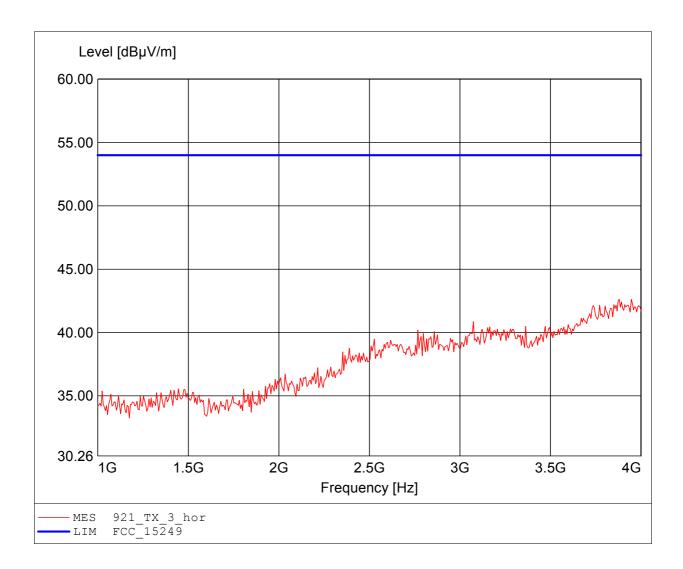
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.

Freq: 3.946GHz, Emax: 42.62dBuV/m, RBW: 1MHz Comment 2:



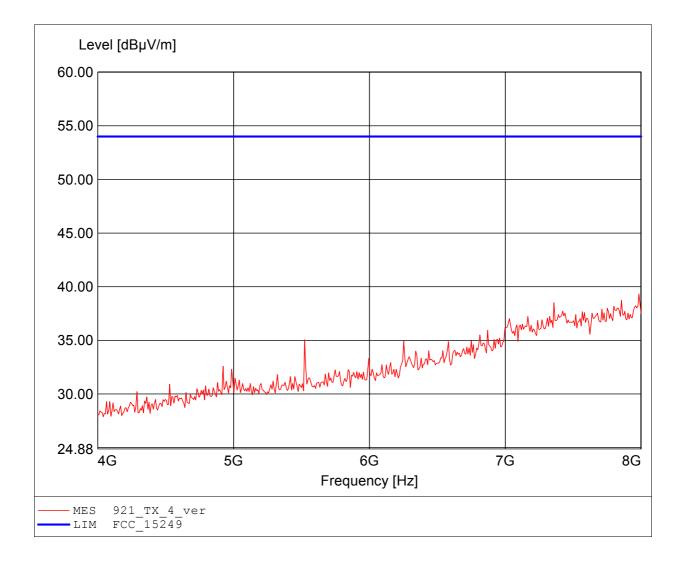
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 7.984GHz, Emax: 39.32dBµV/m, RBW: 1MHz Comment 2:



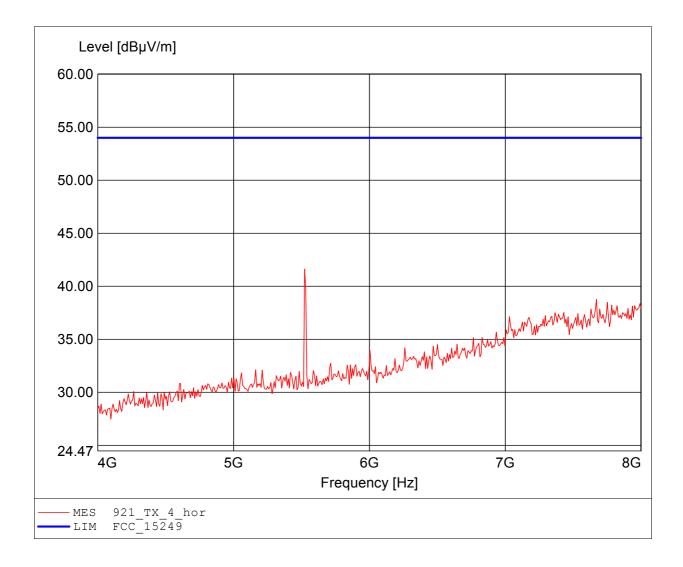
FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Condition:
Test Specification:
Freq. / CH: 921
Comment 1:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Freq: 5.523GHz, Emax: 41.63dBµV/m, RBW: 1MHz Comment 2:

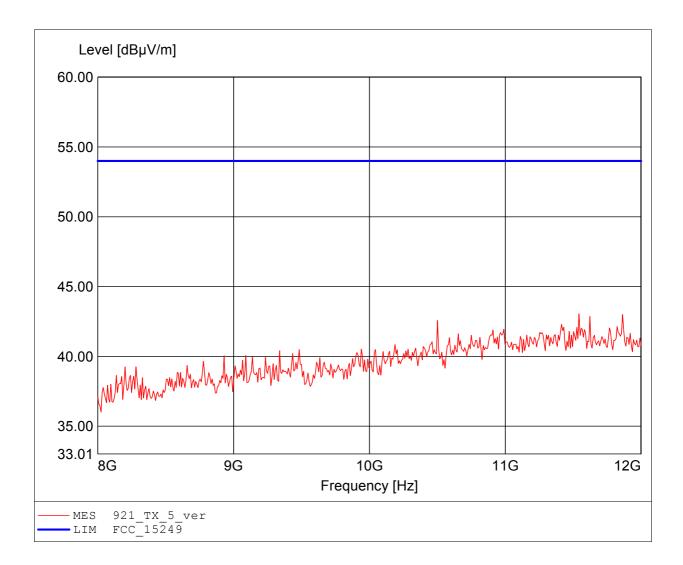


FCC RULES PART 15, SUBPART C

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.543GHz, Emax: 43.05dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

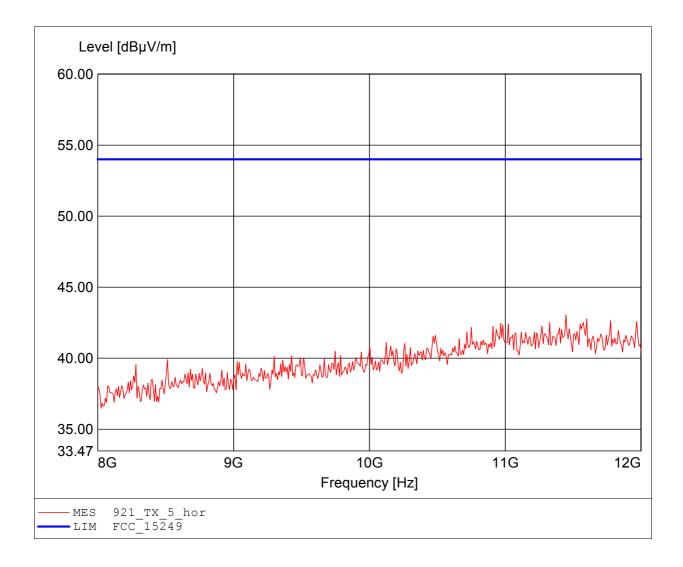
Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 16 / Freq: 921MHz / FSK / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 921

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.447GHz, Emax: 43.05dBµV/m, RBW: 1MHz Comment 2:





Annex E Receiver radiated spurious emissions

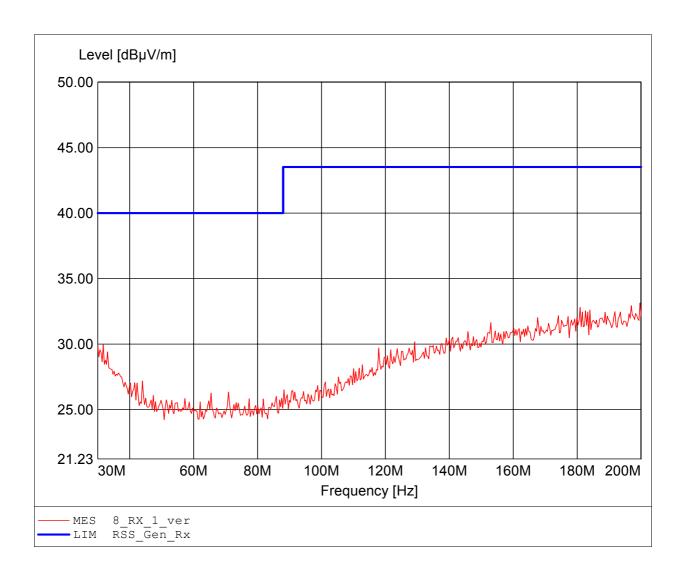
Test Report No.: G0M-1104-1064-C-1

Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HK 116

Comment 2: Freq:199.659MHz Emax:33.14dBuV/m RBW: 100 kHz

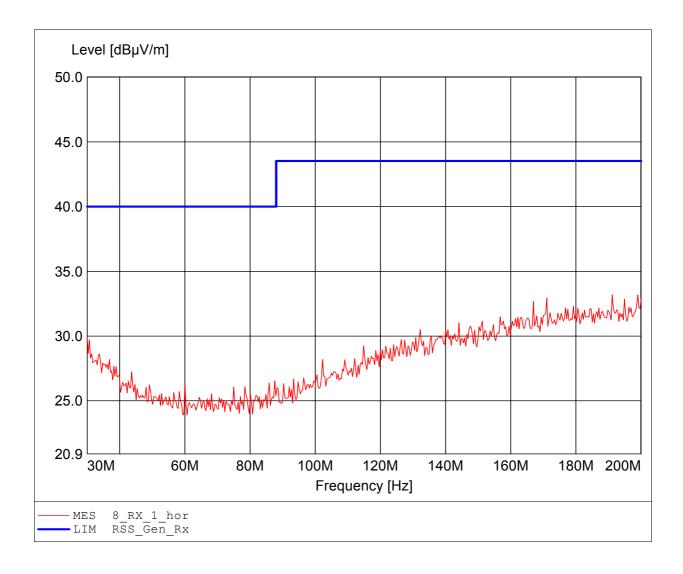


Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / GOM-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HK 116

Comment 2: Freq:191.142MHz Emax:33.19dBuV/m RBW: 100 kHz

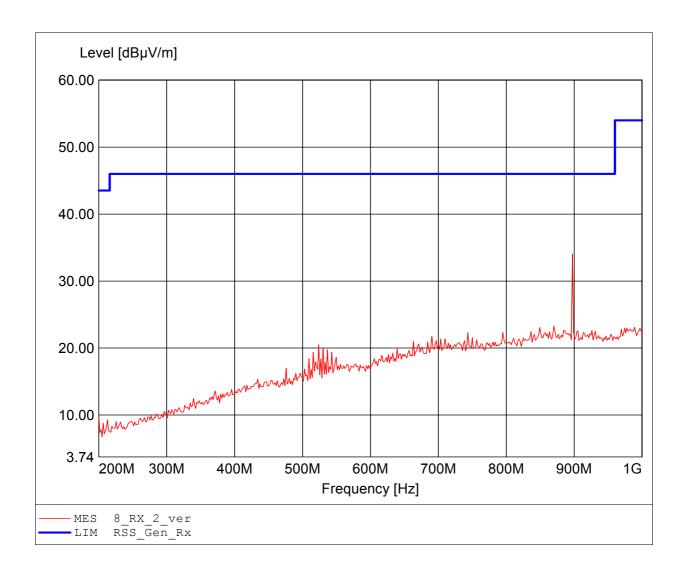


Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / G0M-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.

Freq:897.395MHz Emax:34.04dBpV/m RBW: 100 kHz Comment 2:

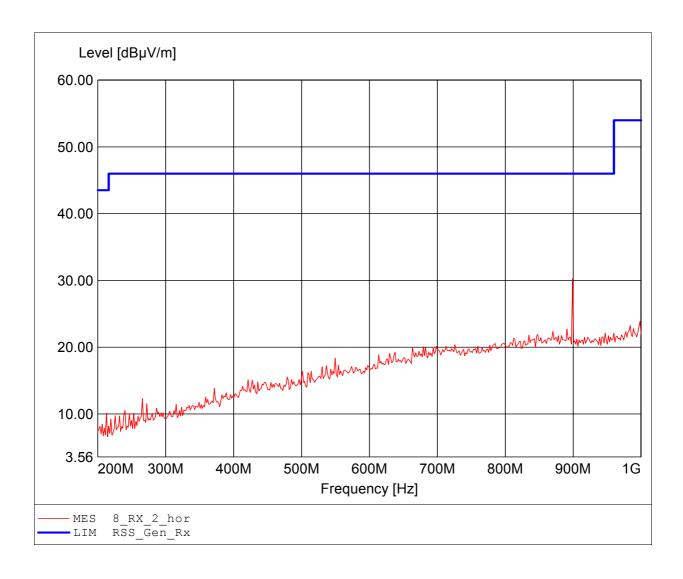


Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / GOM-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.

Freq:898.998MHz Emax:30.24dBµV/m RBW: 100 kHz Comment 2:



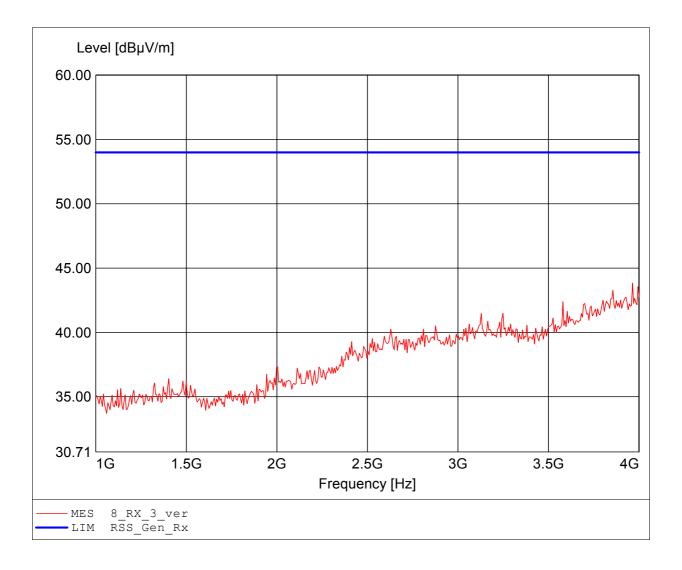
Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / GOM-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell

Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HL025, ampl.

Comment 2: Freq:3.964GHz Emax:43.83dBuV/m RBW: 1 MHz

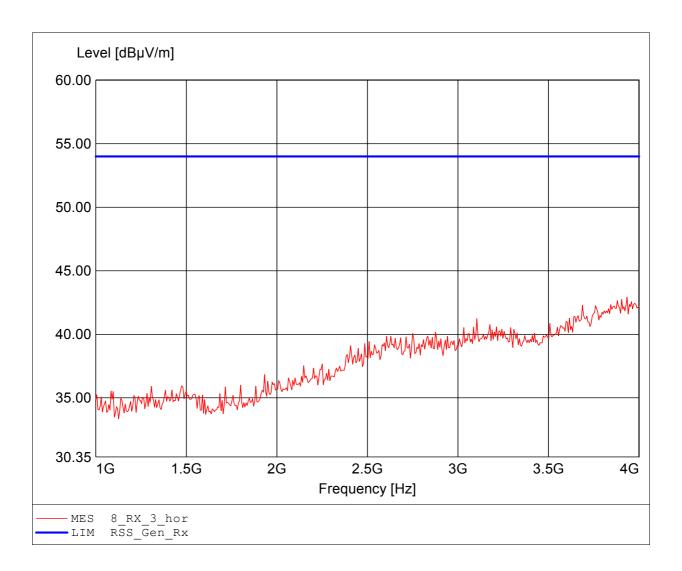


Standards Industry Canada, RSS-GEN

Approval Holder: LifeScan Scotland Ltd. / GOM-1104-1064
EUT: Blood glucose meter / Titan
Config: CH: 8 / Freq: 911MHz / vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell Test Condition: Tnom.: 24°C / Unom: 2x 1.5 V DC (Battery)

Test Specification: Freq. / CH: 8
Comment 1: Dist.: 3m, Ant.: HL025, ampl.

Comment 2: Freq:3.934GHz Emax:42.94dBuV/m RBW: 1 MHz





Annex F AC Power line Conducted Emissions

EMI voltage test in the ac-mains according to FCC Part 15b

Order number: G0M-1104-1064

Manufacturer: LifeScan California

EUT Name: Blood glucose meter (Titan)
Model: One Touch Ping Verio

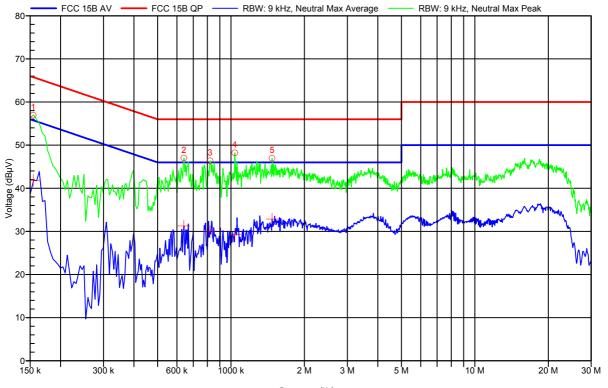
Test Site: Eurofins Product Service GmbH

Operator: Mr. Pflug

Test Conditions: Tnom: 23°C, Unom: 120VAC(AC/DC-adapter)

LISN: ESH2-Z5 N Mode: data-link Test Date: 09.05.2011

Index 5



Frequency	(Hz)
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Frequency	Statu
154.5 kHz	Pass
640.5 kHz	Pass
820.5 kHz	Pass
1.036 MHz	Pass
1.473 MHz	Pass

Frequency	Average	Average Limit	Average Difference	Status
154.5 kHz	41.84 dBµV	55.75 dBµV	-13.92 dB	Pass
640.5 kHz	31.26 dBµV	46 dBµV	-14.74 dB	Pass
820.5 kHz	29.93 dBµV	46 dBµV	-16.07 dB	Pass
1.036 MHz	29.3 dBµV	46 dBµV	-16.7 dB	Pass
1.473 MHz	29.3 dBµV 32.86 dBµV	46 dBµV 46 dBµV	-13.14 dB	Pass

Test Report No.: G0M-1104-1064-C-1



EMI voltage test in the ac-mains according to FCC Part 15b

Order number: G0M-1104-1064

Manufacturer: LifeScan California

EUT Name: Blood glucose meter (Titan)
Model: One Touch Ping Verio

Test Site: Eurofins Product Service GmbH

Operator: Mr. Pflug

Test Conditions: Tnom: 23°C, Unom: 120VAC(AC/DC-adapter)

LISN: ESH2-Z5 L Mode: data-link Test Date: 09.05.2011

Index 6

