



# Test Report

**Report No.:** MTi210309017-01E1

**Date of issue:** Apr. 01, 2021

**Applicant:** Etekcity Corporation

**Product name:** Smart Body Weight Scale

**Model(s):** ESB4074C

**FCC ID:** 2AB22-ESB4074C

Shenzhen Microtest Co., Ltd.  
<http://www.mtitest.com>



## Instructions

1. The report shall not be partially reproduced without the written consent of the laboratory;
2. The test results of this report are only responsible for the samples submitted;
3. This report is invalid without the seal and signature of the laboratory;
4. This report is invalid if transferred, altered or tampered with in any form without authorization;
5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



## Table of Contents

<b>1 GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1 FEATURE OF EQUIPMENT UNDER TEST (EUT).....	5
1.2 OPERATION CHANNEL LIST .....	5
1.3 TEST FREQUENCY CHANNEL.....	6
1.4 EUT OPERATION MODE .....	6
1.5 ANCILLARY EQUIPMENT LIST.....	6
<b>2 SUMMARY OF TEST RESULT .....</b>	<b>6</b>
<b>3 TEST FACILITIES AND ACCREDITATIONS .....</b>	<b>7</b>
3.1 TEST LABORATORY.....	7
3.2 ENVIRONMENTAL CONDITIONS .....	7
3.3 MEASUREMENT UNCERTAINTY.....	7
3.4 TEST SOFTWARE .....	7
<b>4 LIST OF TEST EQUIPMENT .....</b>	<b>8</b>
<b>5 TEST RESULT .....</b>	<b>9</b>
5.1 ANTENNA REQUIREMENT .....	9
5.1.1 Standard requirement.....	9
5.1.2 EUT Antenna .....	9
5.2 AC POWER LINE CONDUCTED EMISSION .....	10
5.2.1 Limits.....	10
5.2.2 Test setup .....	10
5.2.3 Test procedure.....	11
5.2.4 Test results .....	11
5.3 FIELD STRENGTH OF FUNDAMENTAL.....	12
5.3.1 Limits.....	12
5.3.2 Test Method .....	12
5.3.3 Test Result .....	13
5.4 20dB AND 99% BANDWIDTH .....	19
5.4.1 Limits.....	19
5.4.2 Test method.....	19
5.4.3 Test result .....	20
5.5 RADIATED SPURIOUS EMISSION.....	22
5.5.1 Limit .....	22
5.5.2 Test method.....	22
5.5.3 Band edge-radiated .....	32
<b>PHOTOGRAPHS OF THE TEST SETUP.....</b>	<b>36</b>
<b>PHOTOGRAPHS OF THE EUT .....</b>	<b>37</b>



## TEST RESULT CERTIFICATION

Applicant's name .....	Etekcity Corporation
Address .....	1202 N Miller St. Suite A, Anaheim, CA 92806, U.S.A..
Manufacturer's Name .....	Guangdong Welland Technology Co., Ltd.
Address .....	No. 85 Minke East Road, Minying Science & Technology Park, Shiqi, Zhongshan, Guangdong, China

### Product description

Product name .....	Smart Body Weight Scale
Trademark .....	ETEKCITY
Model Name .....	ESB4074C
Serial Model .....	N/A
Standards .....	FCC Part 15.249
Test procedure.....	ANSI C63.10-2013

### Date of Test

Date (s) of performance of tests.....	Mar. 13, 2021 ~Mar. 29, 2021
Test Result.....	Pass

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

**Testing Engineer**

:

(Danny Xu)

**Technical Manager**

:

(Leo Su)

**Authorized Signatory**

:

(Tom Xue)



## 1 General description

### 1.1 Feature of equipment under test (EUT)

Equipment:	Smart Body Weight Scale
Trade Name:	ESB4074C
Model Name:	N/A
Serial Model:	N/A
Model Difference:	N/A
Operation Frequency:	2402– 2480MHz
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Max. Field Strength:	97.75dBuV/m
Power Source:	DC 3V from battery
Battery:	DC 1.5V*2 cell "AAA" alkaline battery
Hardware version:	V1.0
Software version:	V1.0
Serial number:	MTi210309017-01S1

### 1.2 Operation channel list

Channel No.	Frequency (MHz)
1	2402
2	2426
3	2480



### 1.3 Test Frequency Channel

Channel	Frequency(MHz)
Low	2402
Middle	2426
High	2480

### 1.4 EUT operation mode

During testing, RF test program provided by the manufacturer to control the Tx operation followed the test requirement.

### 1.5 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
/	/	/	/

## 2 Summary of Test Result

Test procedures according to the technical standards:

Item	FCC Part No.	Description of Test	Result
1	FCC Part15.203	Antenna Requirement	Pass
2	FCC Part15.207	AC power line conducted emission	Pass
3	FCC Part15.249(a)	Field strength of fundamental	Pass
4	FCC Part 15.215	20dB and 99% Bandwidth	Pass
5	FCC Part15.249(d)	Radiated spurious emission	Pass



### 3 Test Facilities and Accreditations

#### 3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.	448573

#### 3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

#### 3.3 Measurement uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

#### 3.4 Test software

Software Name	Manufacturer	Model	Version
Bluetooth and WiFi Test System	Shenzhen JS tonsend co.,ltd	JS1120-3	2.5.77.0418



#### 4 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarzb eck	VULB 9163	9163-133 8	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2020/06/04	2021/06/03
MTI-E045	Double Ridged Broadband Horn Antenna	schwarzb eck	BBHA 9120 D	9120D-22 78	2020/06/05	2021/06/04
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 5 Test Result

### 5.1 Antenna requirement

#### 5.1.1 Standard requirement

FCC PART 15.203;

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### 5.1.2 EUT Antenna

The antenna is an PCB antenna, which was permanently affixed to the device and un-replaced, complies with 15.203. In addition, the maximum antenna gain is 0dBi.



## 5.2 AC power line conducted emission

### 5.2.1 Limits

FCC §15.207;

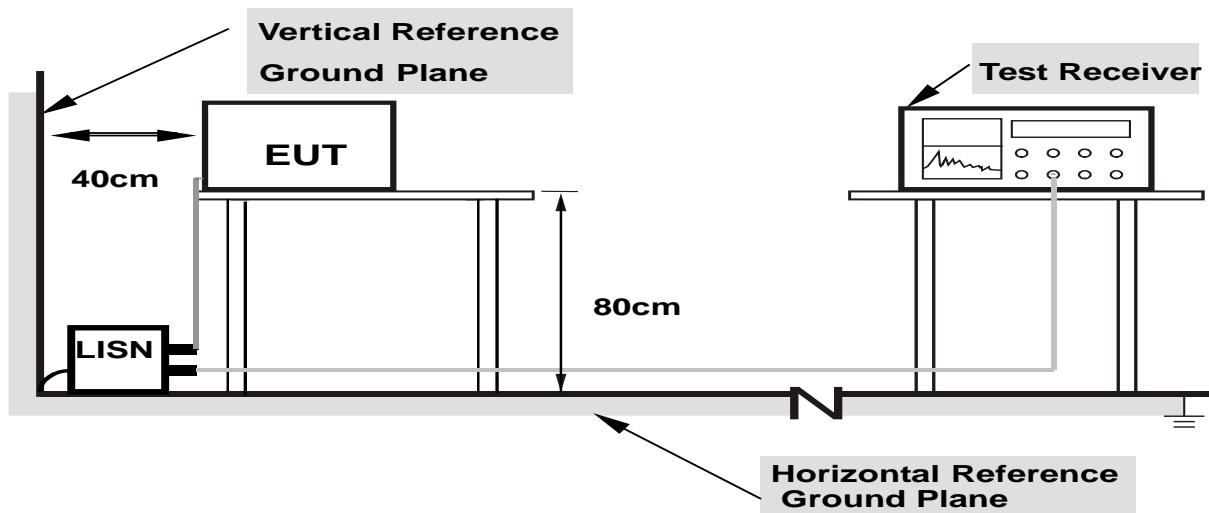
For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 <sup>note2</sup>	56 - 46 <sup>note2</sup>
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note1: The tighter limit applies at the band edges.

Note2: The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### 5.2.2 Test setup



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**



### 5.2.3 Test procedure

#### a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it).

The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### b. The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment's powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 5.2.4 Test results

Note: The device is a DC power supply and does not apply to conducted emissions.



### 5.3 Field strength of fundamental

#### 5.3.1 Limits

FCC §15.249(a);

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

Frequency	Field Strength(dBuv/m)	Detector
Fundamental	114	PK
Fundamental	94	AV
Harmonic emissions	74	PK
Harmonic emissions	54	AV

Note: 50mV/m=50000uv/m

20\*log(50000uV/m)=94dBuv/m

PK limit reference 15.249(e)

#### 5.3.2 Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

3. Use the following spectrum analyser settings:

Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{ GHz}$ , VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold

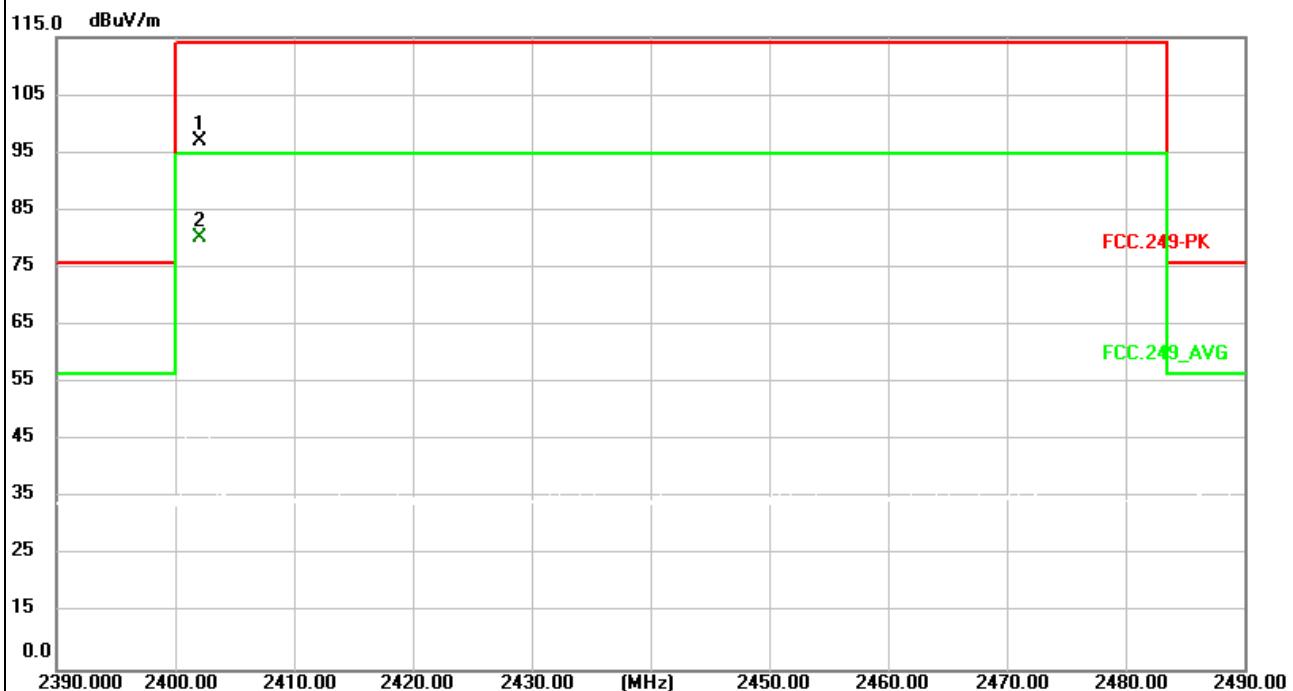
4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

5. The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

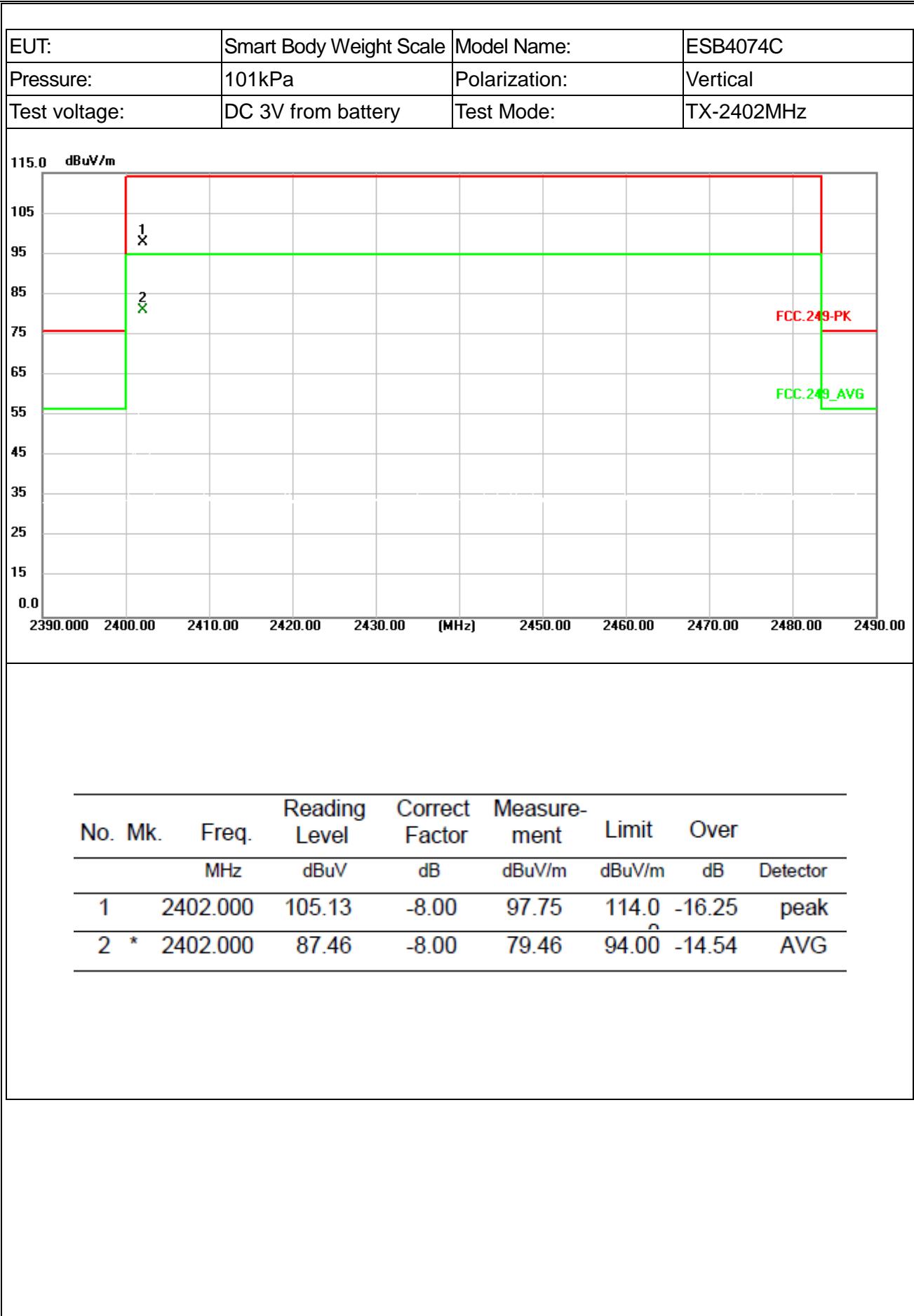


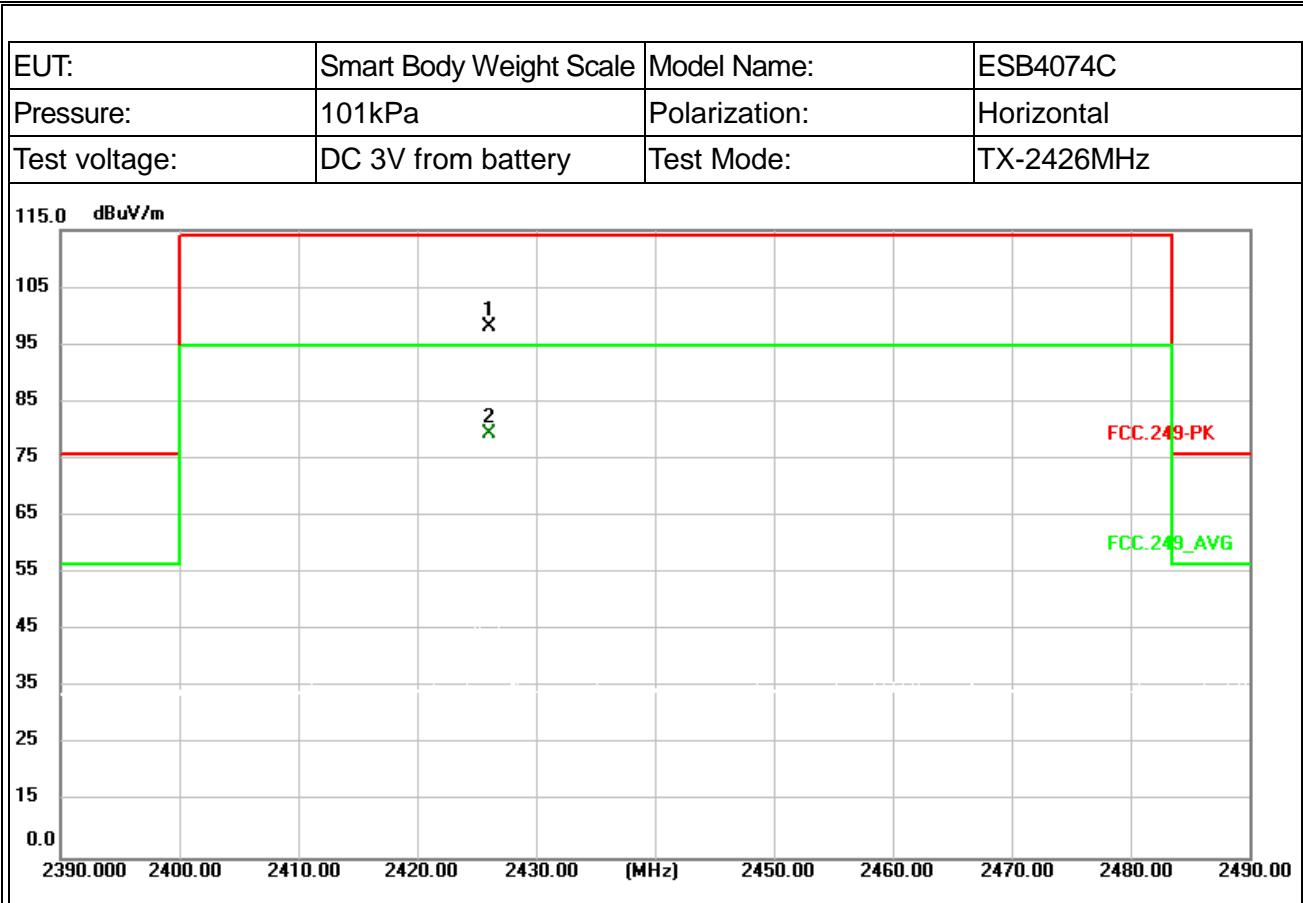
## 5.3.3 Test Result

EUT:	Smart Body Weight Scale	Model Name:	ESB4074C
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode:	TX-2402MHz

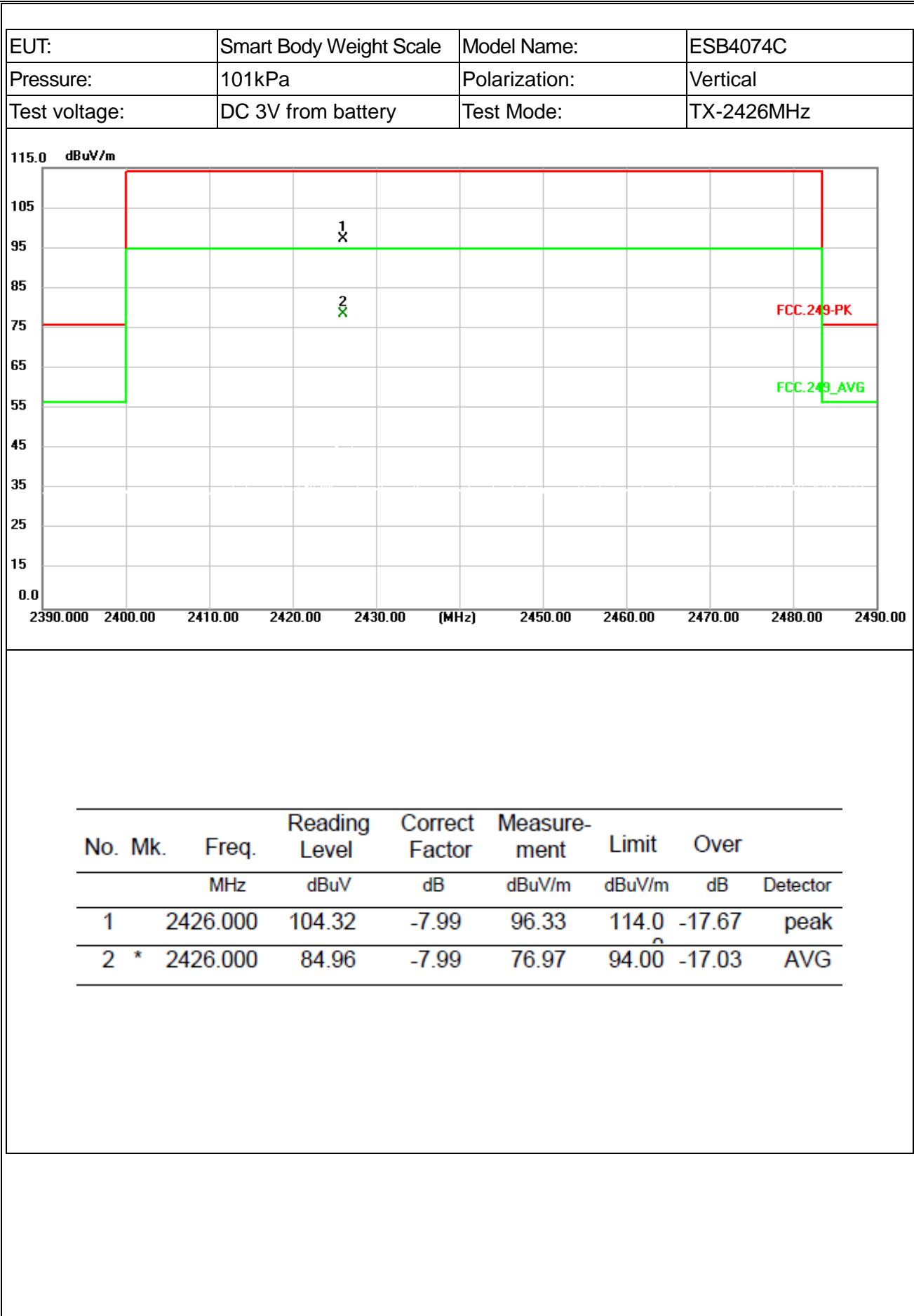


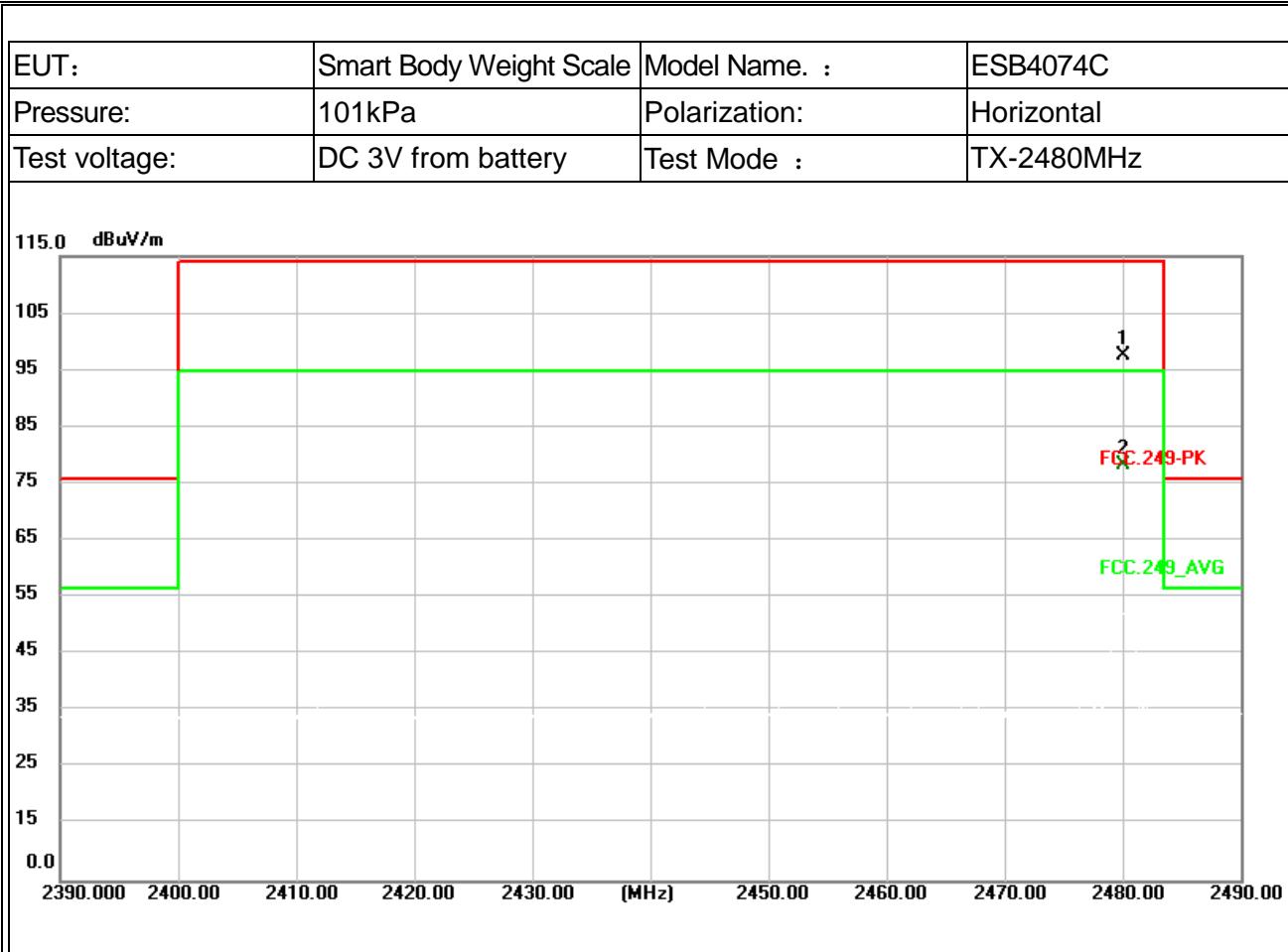
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector
1		2402.000	104.08	-8.00	96.08	114.0	-17.92 peak
2	*	2402.000	86.66	-8.00	78.66	94.00	-15.34 AVG





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB	Detector
1		2426.000	105.44	-7.99	97.45	114.0	-16.55 peak
2	*	2426.000	85.72	-7.99	77.73	94.00	-16.27 AVG





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dB	Detector
1	*	2480.000	104.71	-7.96	96.75	114.0	peak
2		2480.000	84.70	-7.96	76.74	94.00	AVG





## 5.4 20dB and 99% bandwidth

### 5.4.1 Limits

FCC §15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 5.4.2 Test method

Use the following spectrum analyzer settings:

For 20 dB bandwidth

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW  $\geq$  1% of the 20 dB bandwidth

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

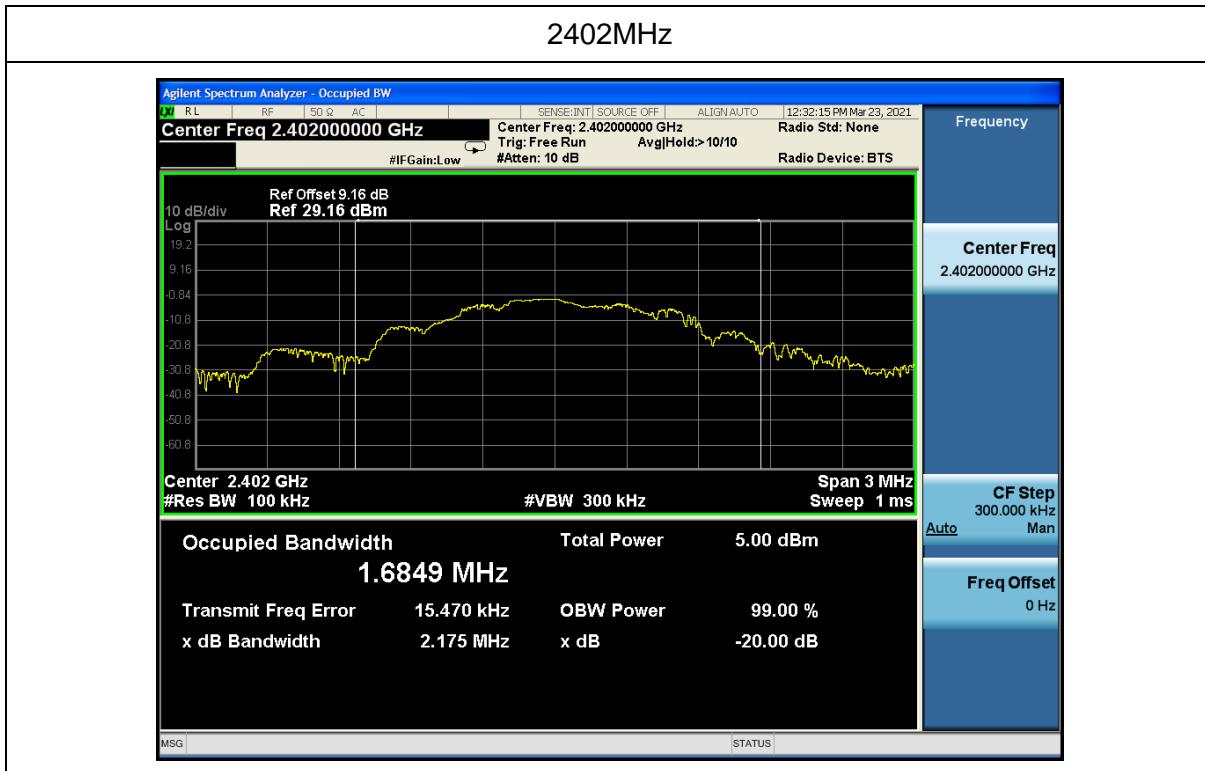
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission



### 5.4.3 Test result

Frequency (MHz)	20dB bandwidth (MHz)
2402	2.175
2426	2.220
2480	2.550

#### Test plots





## 2426MHz



## 2480MHz





## 5.5 Radiated spurious emission

### 5.5.1 Limit

FCC PART 15.249(a);

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics ( $\mu$ V/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu$ V/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

### 5.5.2 Test method

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyser settings:
  - 1) Span = wide enough to fully capture the emission being measured
  - 2) RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$
  - 3) VBW  $\geq$  RBW, Sweep = auto
  - 4) Detector function = peak
  - 5) Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.



### 5.5.2.1 Test Result

#### Below 30MHz

EUT:	Smart Body Weight Scale	Model name. :	ESB4074C
Pressure:	1010 hPa	Test voltage:	DC 3V from battery
Test mode:	TX	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	Pass
--	--	--	--	Pass

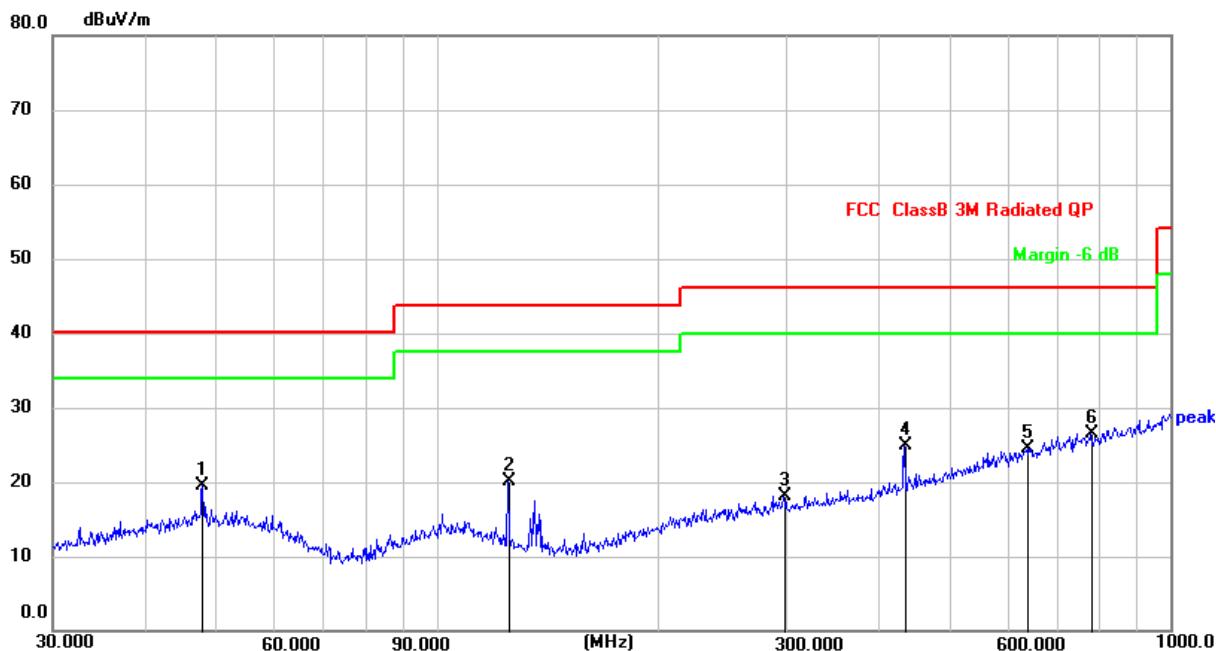
#### Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.



## 30MHz-1GHz

EUT:	Smart Body Weight Scale	Model Name:	ESB4074C
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode:	TX-2402MHz



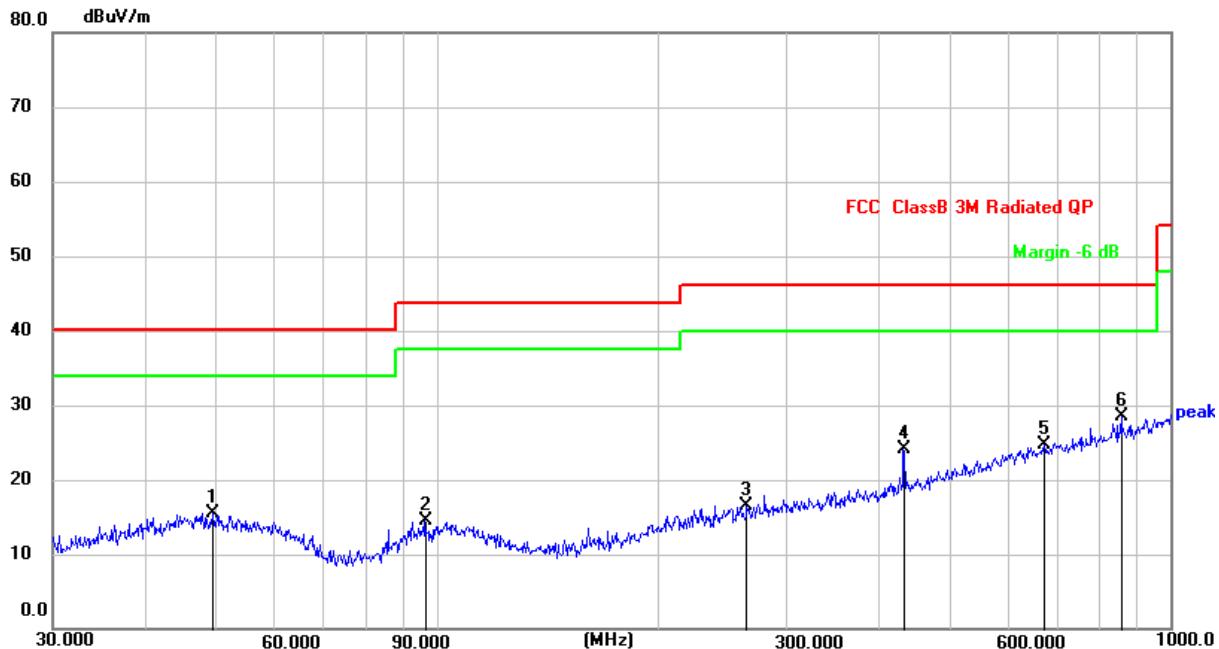
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.9940	31.26	-11.81	19.45	40.00	-20.55	QP
2	125.0066	34.33	-14.31	20.02	43.50	-23.48	QP
3	297.2241	26.89	-8.76	18.13	46.00	-27.87	QP
4	434.0651	31.59	-6.64	24.95	46.00	-21.05	QP
5	638.3686	27.19	-2.72	24.47	46.00	-21.53	QP
6 *	779.6068	26.84	-0.31	26.53	46.00	-19.47	QP

## Note:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is GFSK CH1 2402 MHz.



EUT:	Smart Body Weight Scale	Model Name:	ESB4074C
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	DC 3V from battery	Test Mode:	TX-2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.5328	27.22	-11.68	15.54	40.00	-24.46	QP
2	96.4362	27.67	-13.09	14.58	43.50	-28.92	QP
3	264.7457	25.95	-9.42	16.53	46.00	-29.47	QP
4	432.5457	30.80	-6.67	24.13	46.00	-21.87	QP
5	672.8444	26.96	-2.17	24.79	46.00	-21.21	QP
6 *	857.0247	27.37	1.13	28.50	46.00	-17.50	QP

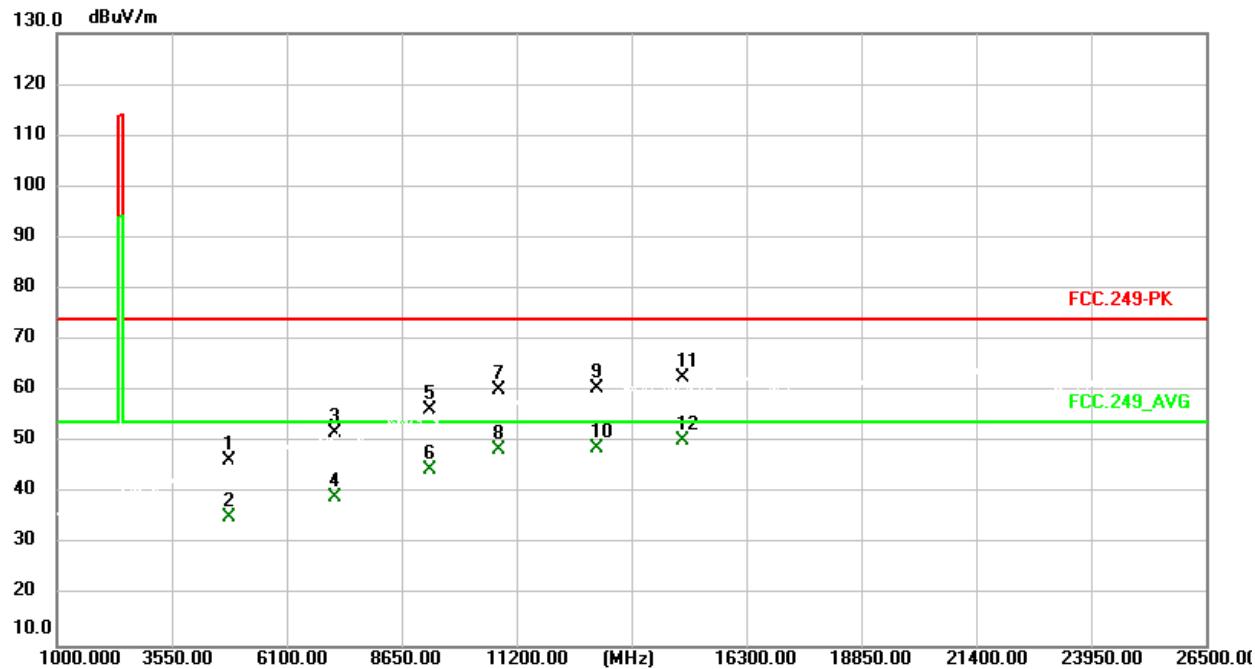
Note:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is GFSK CH1 2402 MHz.

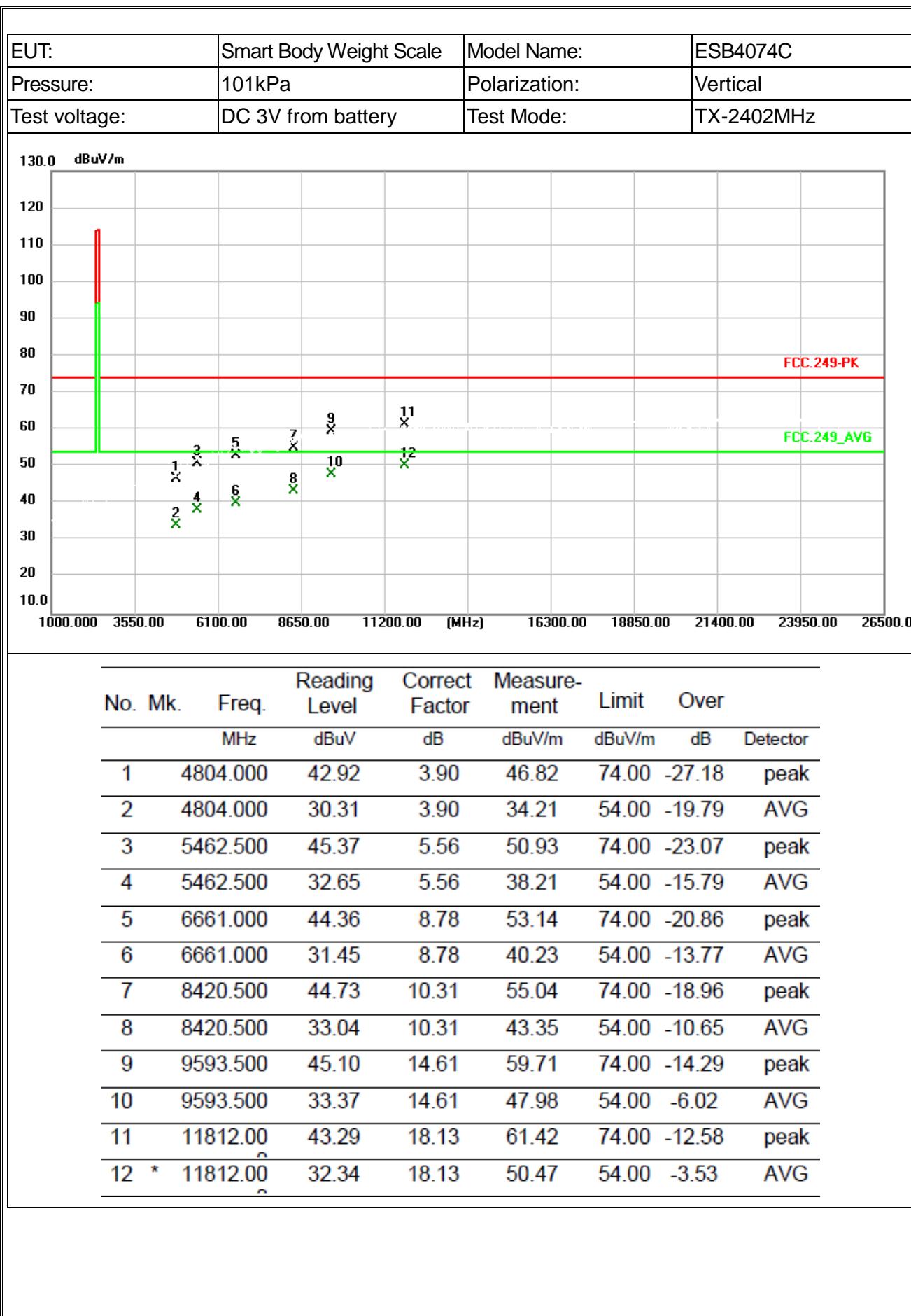


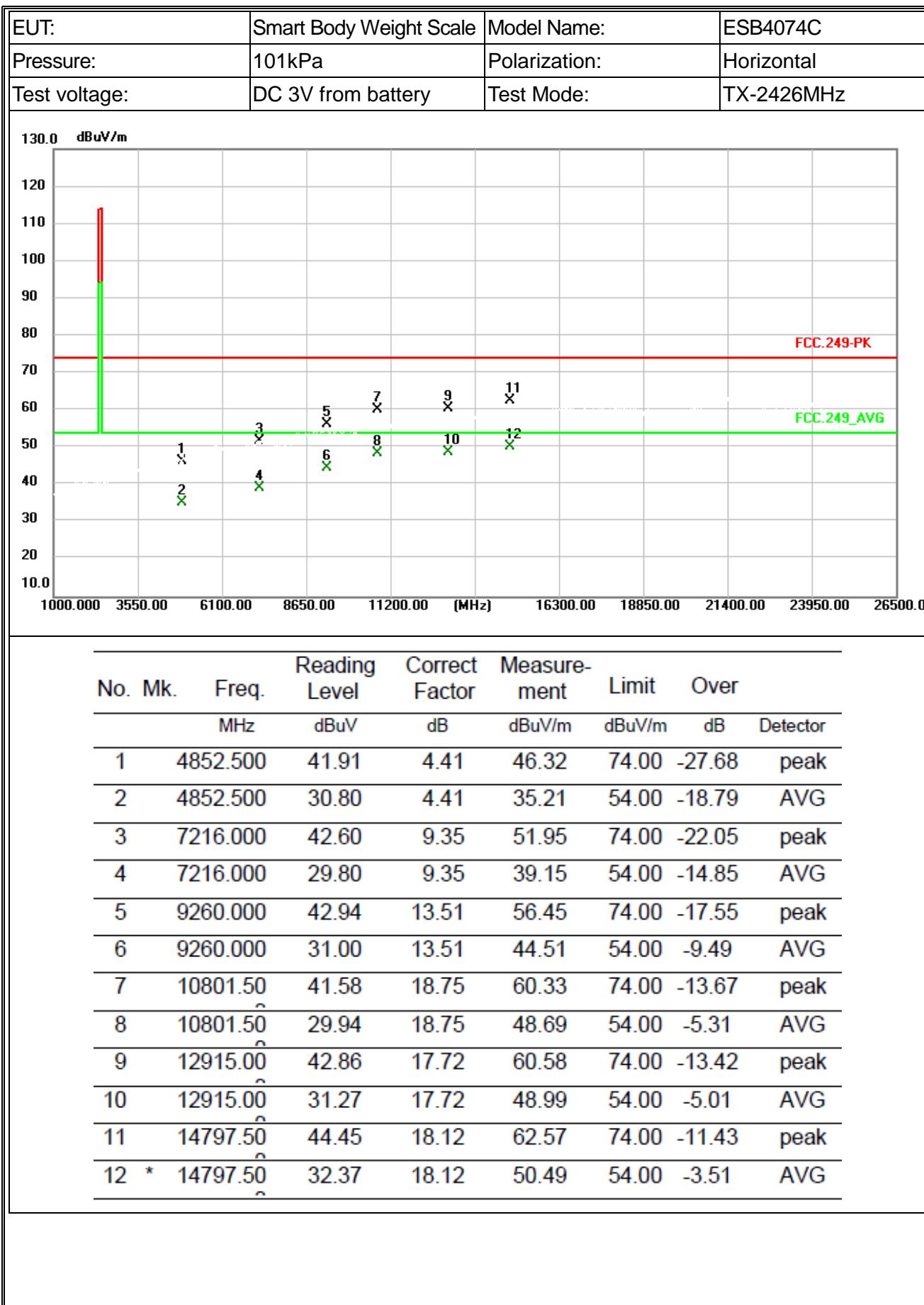
1GHz-18GHz:

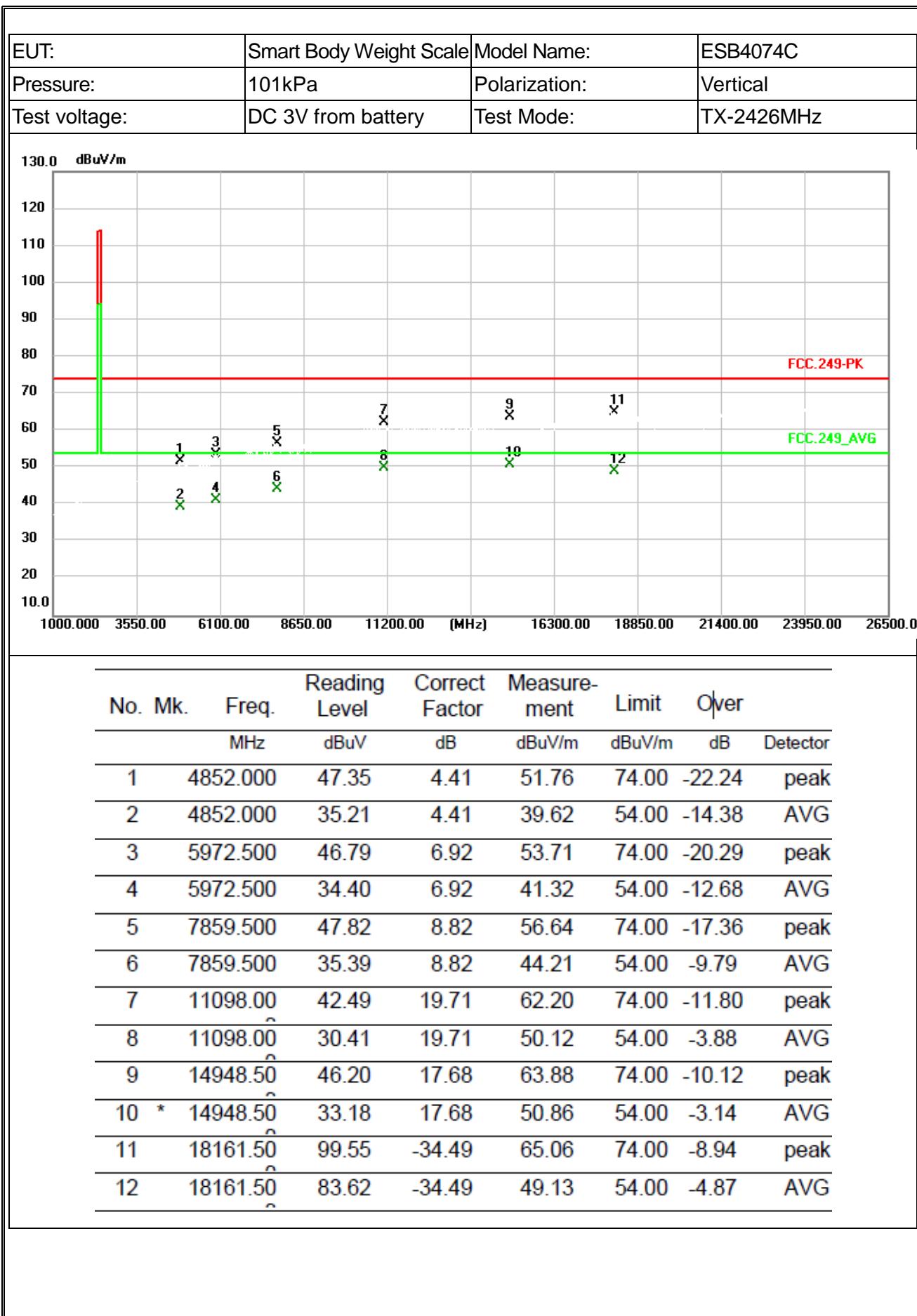
EUT:	Smart Body Weight Scale	Model Name. :	ESB4074C
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode :	TX-2402MHz

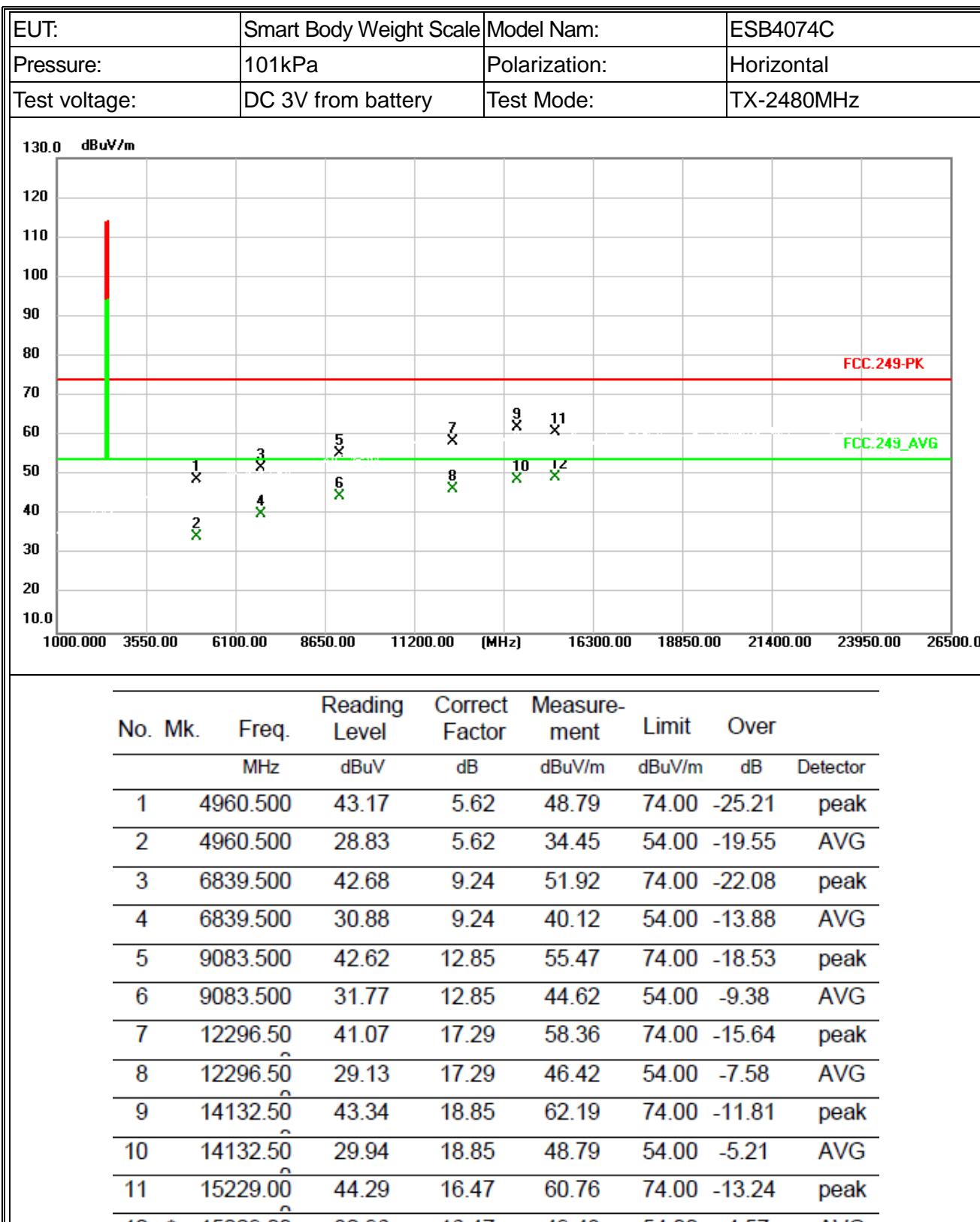


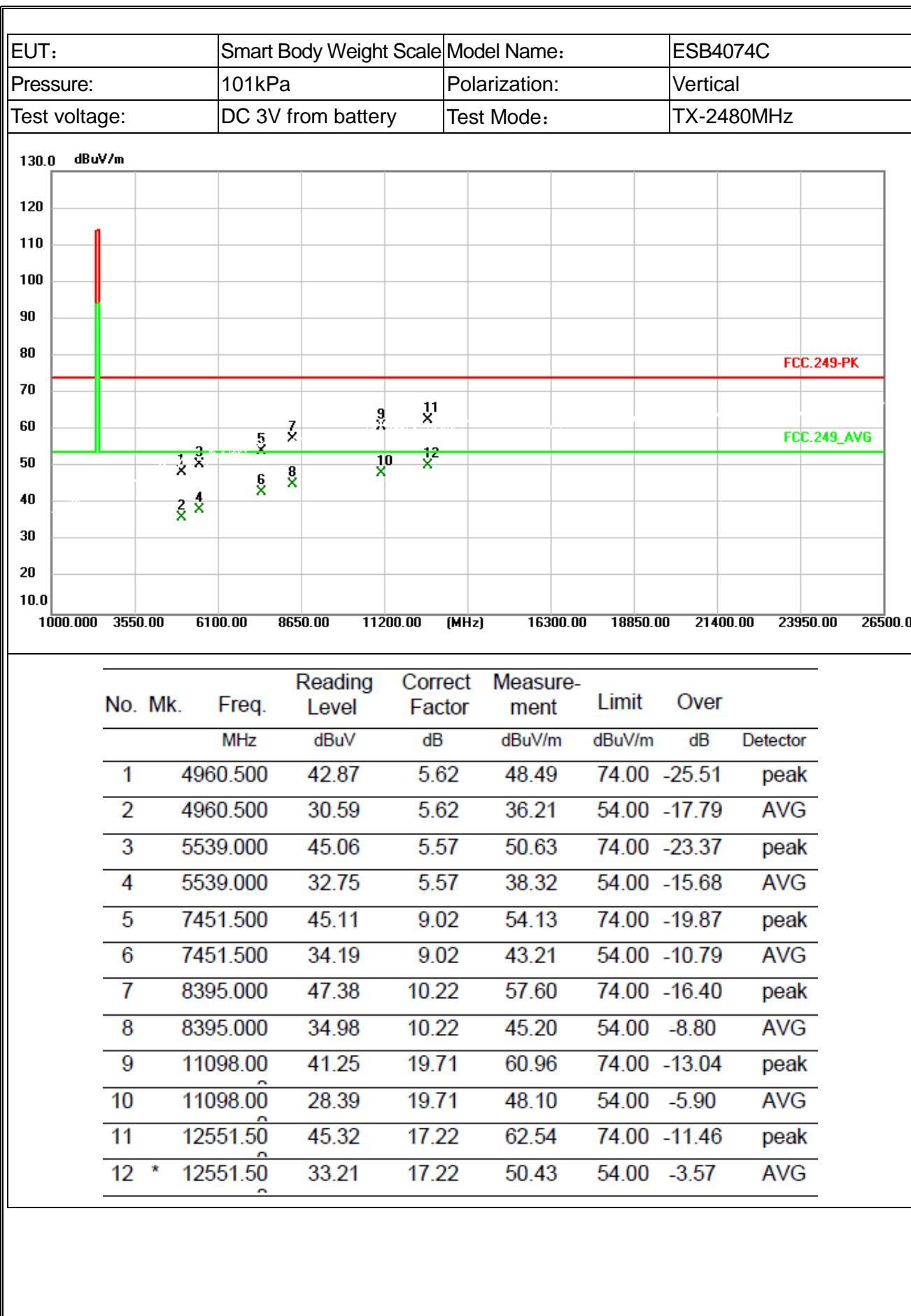
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over
			dBuV	dB	dBuV/m	dBuV/m	dB
1		4804.500	42.42	3.90	46.32	74.00	-27.68 peak
2		4804.500	31.31	3.90	35.21	54.00	-18.79 AVG
3		7171.000	42.54	9.41	51.95	74.00	-22.05 peak
4		7171.000	29.74	9.41	39.15	54.00	-14.85 AVG
5		9262.000	42.93	13.52	56.45	74.00	-17.55 peak
6		9262.000	30.99	13.52	44.51	54.00	-9.49 AVG
7		10817.50	41.48	18.85	60.33	74.00	-13.67 peak
8		10817.50	29.84	18.85	48.69	54.00	-5.31 AVG
9		12985.00	42.76	17.82	60.58	74.00	-13.42 peak
10		12985.00	31.17	17.82	48.99	54.00	-5.01 AVG
11		14897.50	44.75	17.82	62.57	74.00	-11.43 peak
12 *		14897.50	32.67	17.82	50.49	54.00	-3.51 AVG









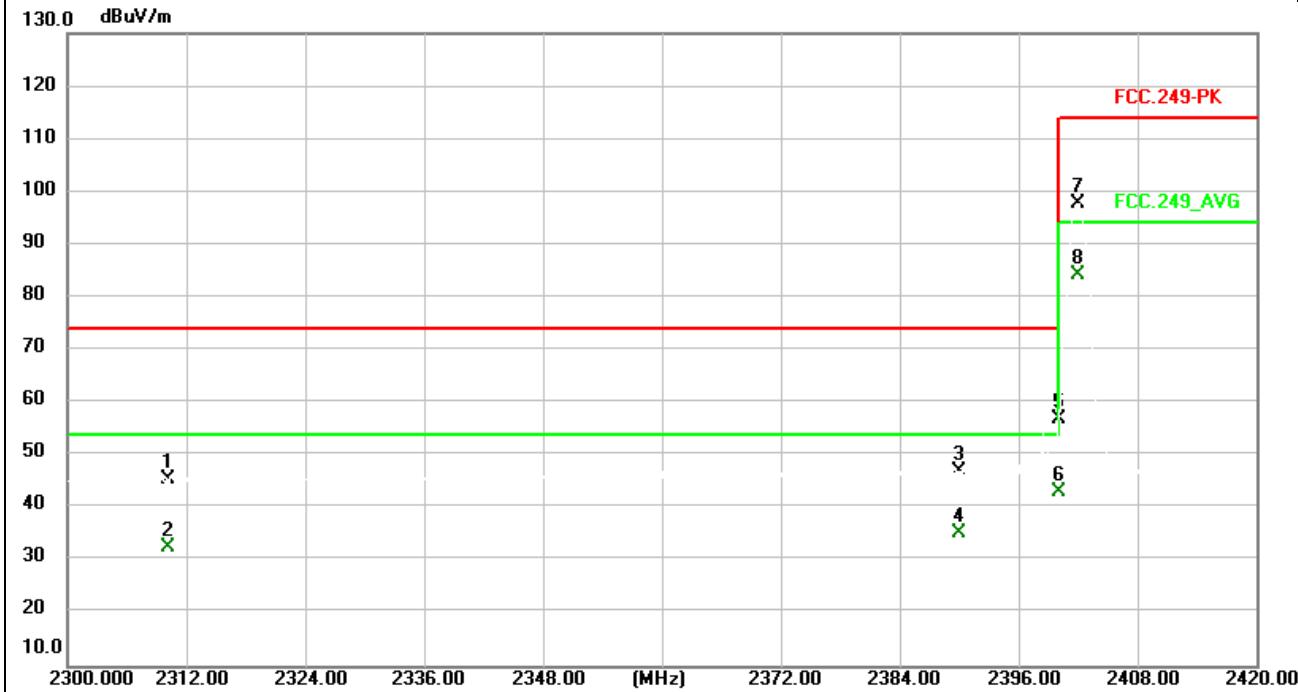




### 5.5.3 Band edge-radiated

All the modulation modes have been tested, and the worst result was report as below:

EUT:	Smart Body Weight Scale	Model Name:	ESB4074C
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode:	TX-2402MHz

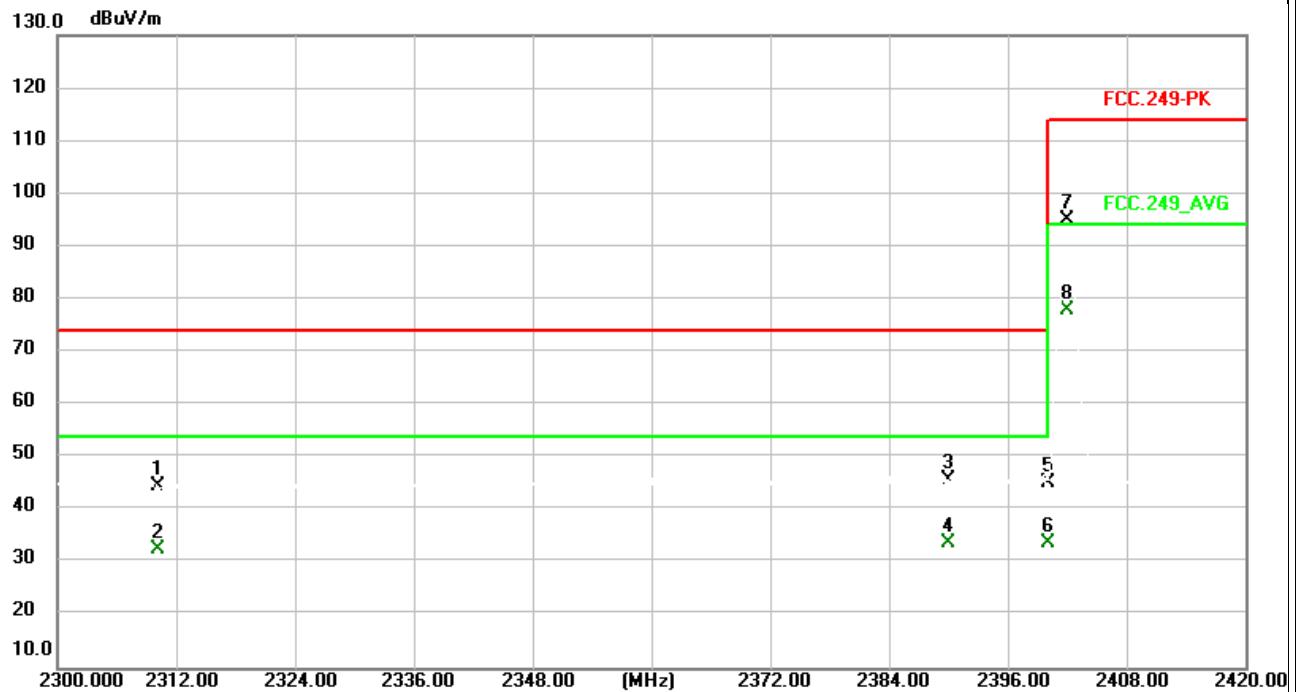


No.	Mk.	Freq. MHz	Reading Level dB <sub>uV</sub>	Correct Factor dB	Measure- ment dB <sub>uV/m</sub>	Limit dB	Over Detector
1	2310.000	49.23	-3.61	45.62	74.00	-28.38	peak
2	2310.000	36.17	-3.61	32.56	54.00	-21.44	AVG
3	2390.000	49.94	-2.93	47.01	74.00	-26.99	peak
4	2390.000	38.19	-2.93	35.26	54.00	-18.74	AVG
5	2400.000	59.81	-2.84	56.97	74.00	-17.03	peak
6	2400.000	46.05	-2.84	43.21	54.00	-10.79	AVG
7	2402.000	100.51	-2.84	97.67	114.0	-16.33	peak
8	* 2402.000	87.07	-2.84	84.23	94.00	-9.77	AVG

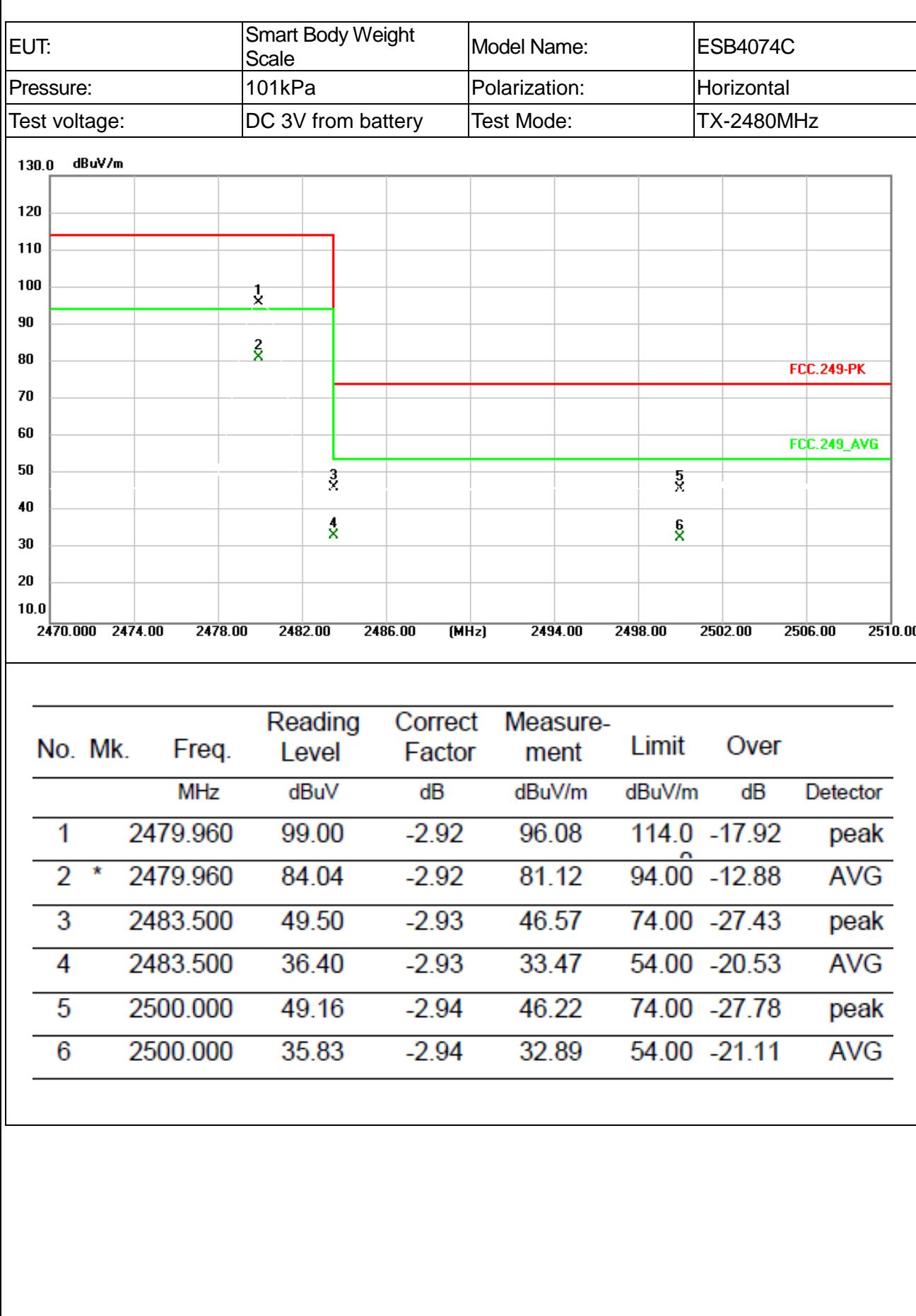


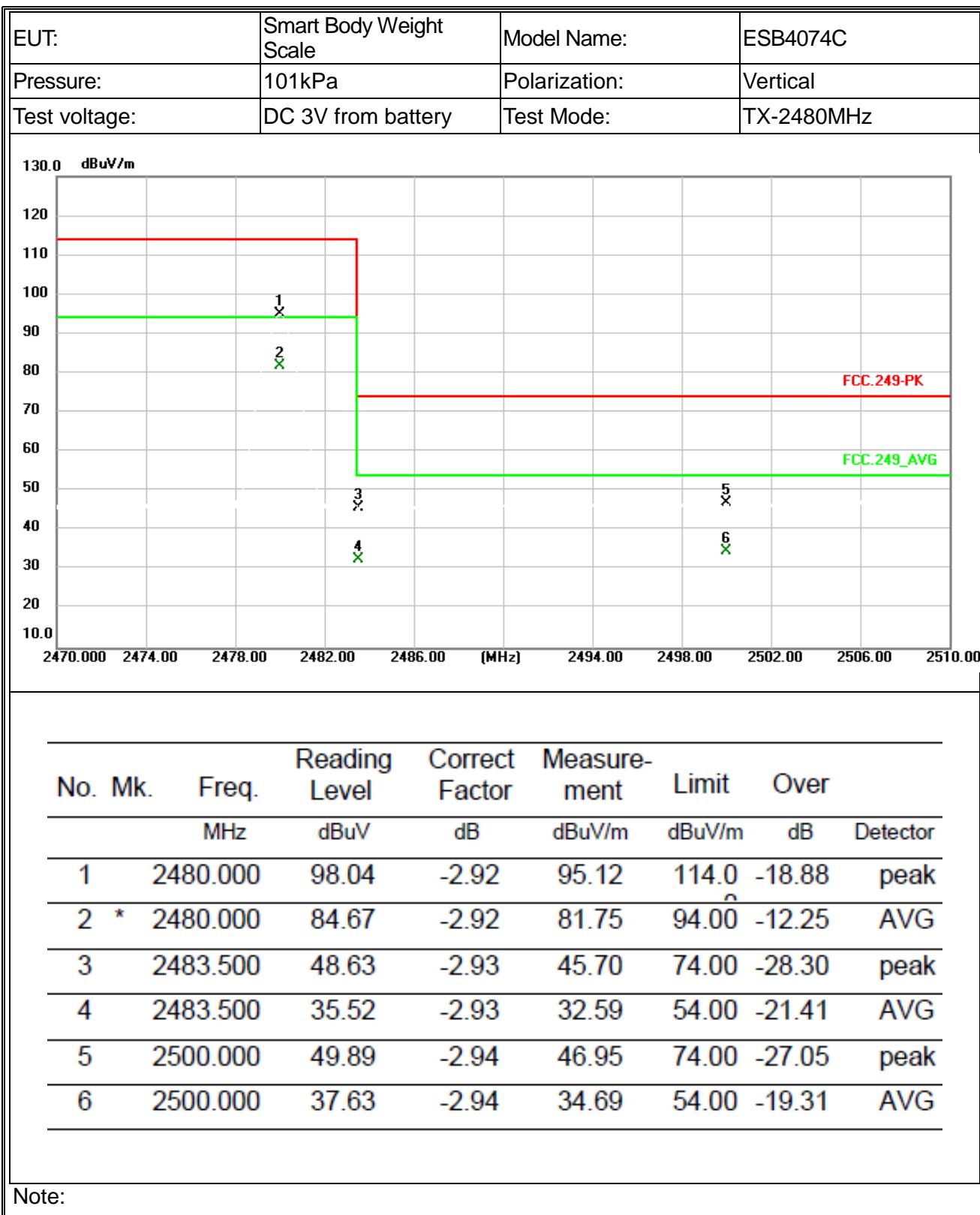
**Microtest**  
微 测 检 测

EUT:	Smart Body Weight Scale	Model Name:	ESB4074C
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	DC 3V from battery	Test Mode:	TX-2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.20	-3.61	44.59	74.00	-29.41	peak
2		2310.000	36.30	-3.61	32.69	54.00	-21.31	AVG
3		2390.000	48.71	-2.93	45.78	74.00	-28.22	peak
4		2390.000	36.82	-2.93	33.89	54.00	-20.11	AVG
5		2400.000	48.20	-2.84	45.36	74.00	-28.64	peak
6		2400.000	36.73	-2.84	33.89	54.00	-20.11	AVG
7		2402.000	97.93	-2.84	95.09	114.0	-18.91	peak
8	*	2402.000	80.73	-2.84	77.89	94.00	-16.11	AVG





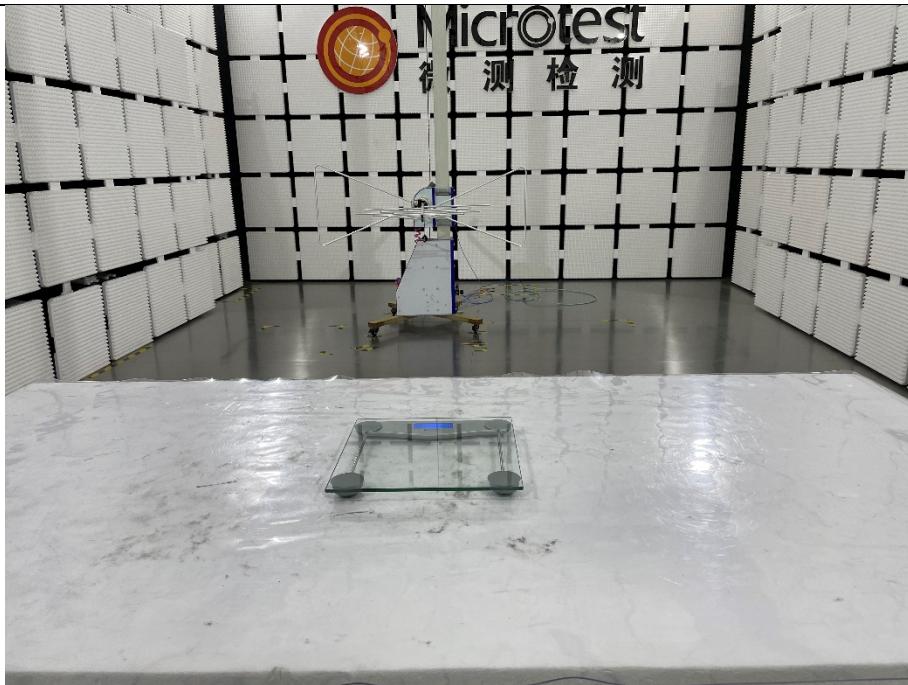
Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level = Antenna Factor + Cable Loss + Read Level - Preamp Factor.



## Photographs of the Test Setup

Radiated emission – below 1GHz



Radiated emission – above 1GHz





## Photographs of the EUT

See the APPENDIX 1- EUT PHOTO.

----END OF REPORT----