

Test Report

FCC ID: 2ANB8-T1

Date of issue: Oct. 22, 2018

Report Number:	MTi181018E052
Sample Description:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring
Model(s):	T1
Applicant:	Getwell Health Technology (Wuhu) Co., Ltd.
Address:	4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui
Date of Test:	Oct. 11, 2018 - Oct. 22, 2018

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

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PRODUCT INFORMATION

Applicant's name: Getwell Health Technology (Wuhu) Co., Ltd.

Address: 4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui

Manufacture's Name: Getwell Health Technology (Wuhu) Co., Ltd.

Address: 4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui

Product name: GETWELL Aerobic capacity assessment and muscle oxygen monitoring

Trademark: getwell

Model name: T1

Standards: FCC Part15 Subpat C
ANSI C63.10:2013

Test Procedure: KDB 558074 D01 DTS Meas Guidance v05
KDB 174176 D01 Line Conducted FAQ v01r01

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.

Note: The RF component test data for this report is based on the original test report MTi170811E069 with a date of 2017-08-11. This report only reflects the retesting part, the conduction and radiation data are updated, and the rest of the data remains unchanged.

Tested by:s

Leo Su

Leo Su

Oct. 22, 2018

Reviewed by:

Blue Zheng

Blue Zheng

Oct. 22, 2018

Approved by:

Smith Chen

Smith Chen

Oct. 22, 2018

1. General Information

1.1. Description of EUT

Product name:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring
Model name:	T1
Serial model:	N/A
Difference in series models:	N/A
Operation frequency:	2402-2480MHz
Modulation type:	GFSK
Bit Rate of transmitter:	1 Mbps
Antenna type:	FPCB Antenna
Antenna gain:	2dBi
Max. output power:	1.348dBm
Hardware version:	V01
Software version:	V218
Power supply:	DC 3.7V by Battery or DC 5V from adapter AC 120V/60Hz
Adapter information:	Model:SK12G-0500100U Input:AC100-240V~ 50/60Hz 0.2A Output:5V 1A
Battery:	DC 3.7V 205mA

1.2. Operation channel list

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3. Test channel list

Channel	Channel	Frequency (MHz)
Low	00	2402
Middle	19	2440
High	39	2480

1.4. Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	SK12G-0500100U	/	/	/

1.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	
/	/	/	/	/	

Note:

(1)The support equipment was authorized by Declaration of Confirmation.

(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2. Summary of Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.207	Conducted Emission	Pass	
2	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
3	15.203	Antenna Requirement	Pass	

3. Test Facilities and Accreditations

3.1. Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3.2. Environmental conditions

Temperature:	20°C~30°C
Humidity	30%~70%
Atmospheric pressure	98kPa~101kPa

3.3. Measurement uncertainty

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

3.4. Test software

Software Name	Manufacturer	Model	Version
RF Test System	Farad	LZ-RF	Lz_Rf 3A3

4. Equipment list

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E001	Spectrum Analyzer	Agilent	E4407B	MY41441082	2017/11/18	2018/11/17
MTI-E002	CMU 200 universal radio communication tester	Rohde&schwarz	CMU 200	114587	2017/11/18	2018/11/17
MTI-E004	EMI Test Receiver	Rohde&schwarz	ESPI	1000314	2017/11/18	2018/11/17
MTI-E006	Broadband antenna	schwarzbeck	VULB9163	872	2017/11/18	2018/11/17
MTI-E007	Horn antenna	schwarzbeck	BBHA9120D	1201	2017/11/18	2018/11/17
MTI-E014	amplifier	America	8447D	3113A06150	2017/11/18	2018/11/17
MTI-E015	Conduction Immunity Signal Generator	Schloder	CDG6000	126A1343/2015	2017/11/18	2018/11/17
MTI-E016	Coupled decoupling network	Schloder	CDA M2/M3	A2210332/2015	2017/11/18	2018/11/17
MTI-E032	Comprehensive test instrument	Rohde&schwarz	CMW500	124192	2017/11/18	2018/11/17
MTI-E034	amplifier	Agilent	8449B	3008A02400	2017/11/22	2018/11/21
MTI-E037	Artificial power network	Schwarzbeck	NSLK8127	#841	2017/12/26	2018/12/25
MTI-E040	Spectrum analyzer	Agilent	N9020A	MY49100060	2017/11/05	2018/11/04
MTI-E041	Signal generator	Agilent	N5182A	MY49060455	2017/11/23	2018/11/22
MTI-E042	Analog signal generator	Agilent	E4421B	GB40051240	2017/11/23	2018/11/22
MTI-E043	Power sensor	Dare Instruments	RPR3006W	16I00054SN016	2017/12/29	2018/12/28
MTI-E047	10dB attenuator	Mini-Circuits	UNAT-10+	15542	2017/11/24	2018/11/23
MTI-E049	spectrum analyzer	Rohde&schwarz	FSP-38	100019	2017/11/18	2018/11/17
MTI-E050	PSG Signal generator	Agilent	E8257D	MY46520873	2017/11/24	2018/11/23
MTI-E051	Active Loop Antenna 9kHz - 30MHz	Schwarzbeck	FMZB 1519 B	00044	2017/11/26	2018/11/25
MTI-E052	18-40GHz amplifier	Chengdu step Micro Technology	ZLNA-18-40G-21	1608001	2017/11/18	2018/11/17
MTI-E053	15-40G Antenna	Schwarzbeck	BBHA9170	BBHA9170582	2017/11/18	2018/11/17
MTI-E058	Artificial power network	Schwarzbeck	NSLK8127	#841	2017/11/05	2018/11/04

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

15.203 requirement: For intentional device, according to 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

5.1.2 EUT Antenna

The EUT antenna is FPCB antenna (2dBi). It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2. Conducted emission

5.2.1 Limits

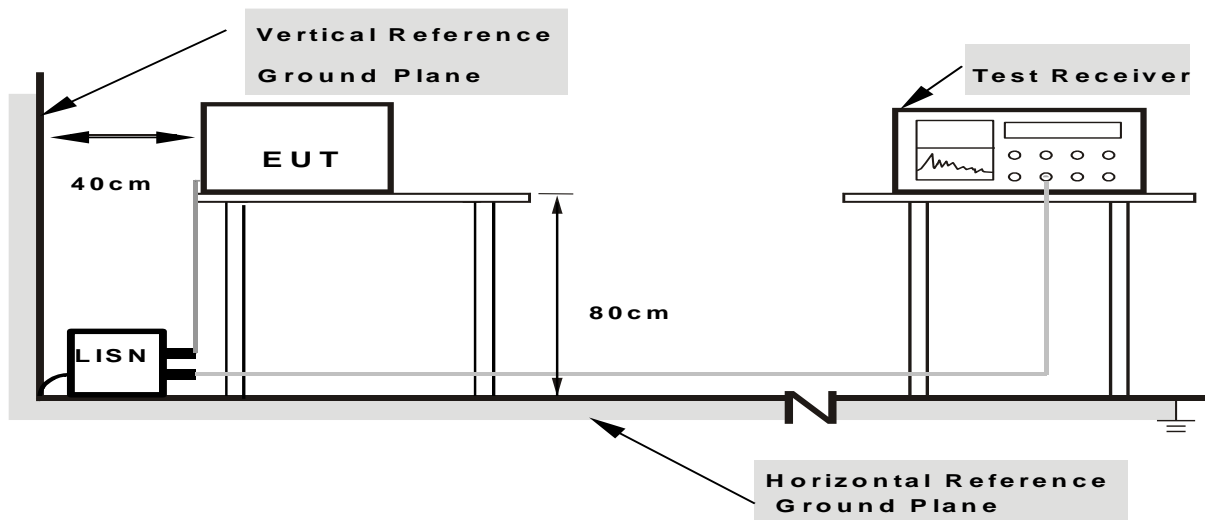
FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note

(1)The tighter limit applies at the band edges.

(2)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

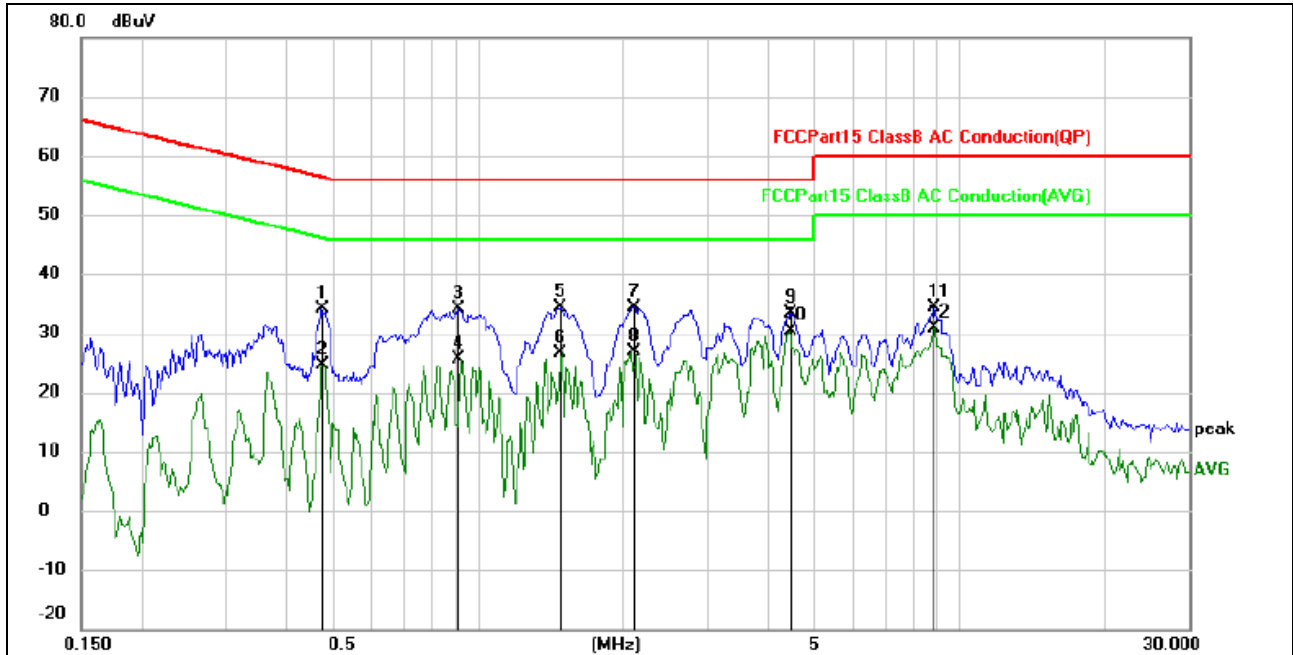
- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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

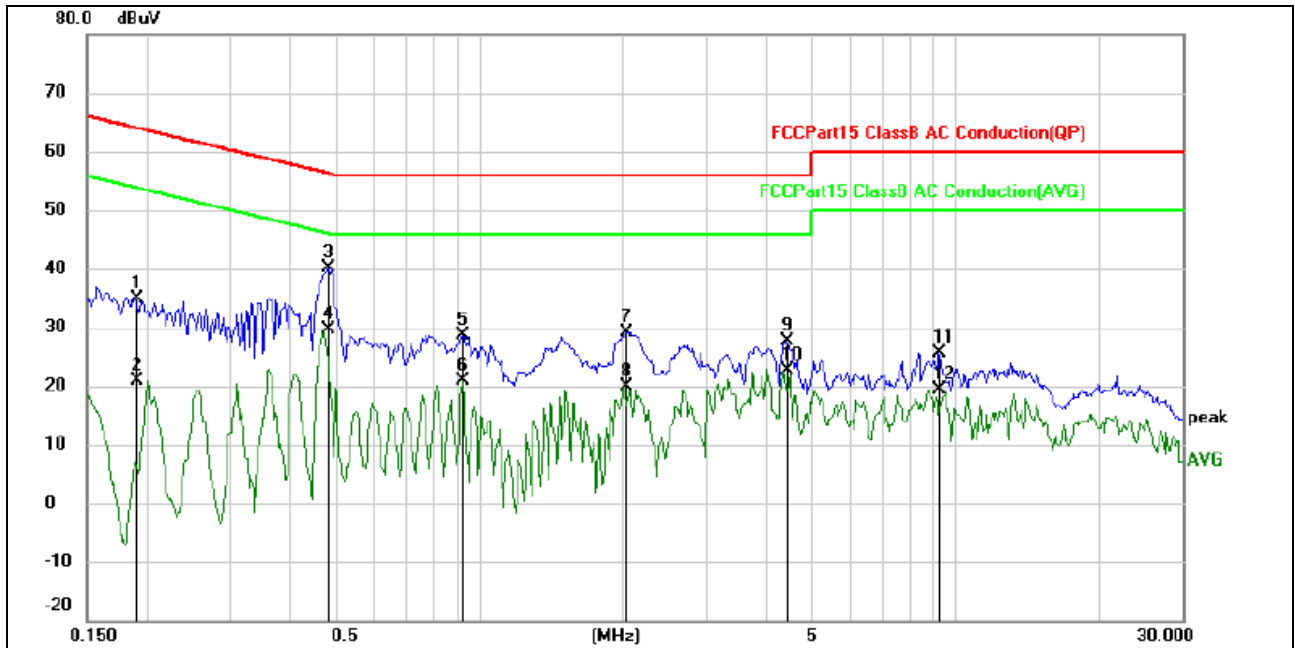
Test data

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



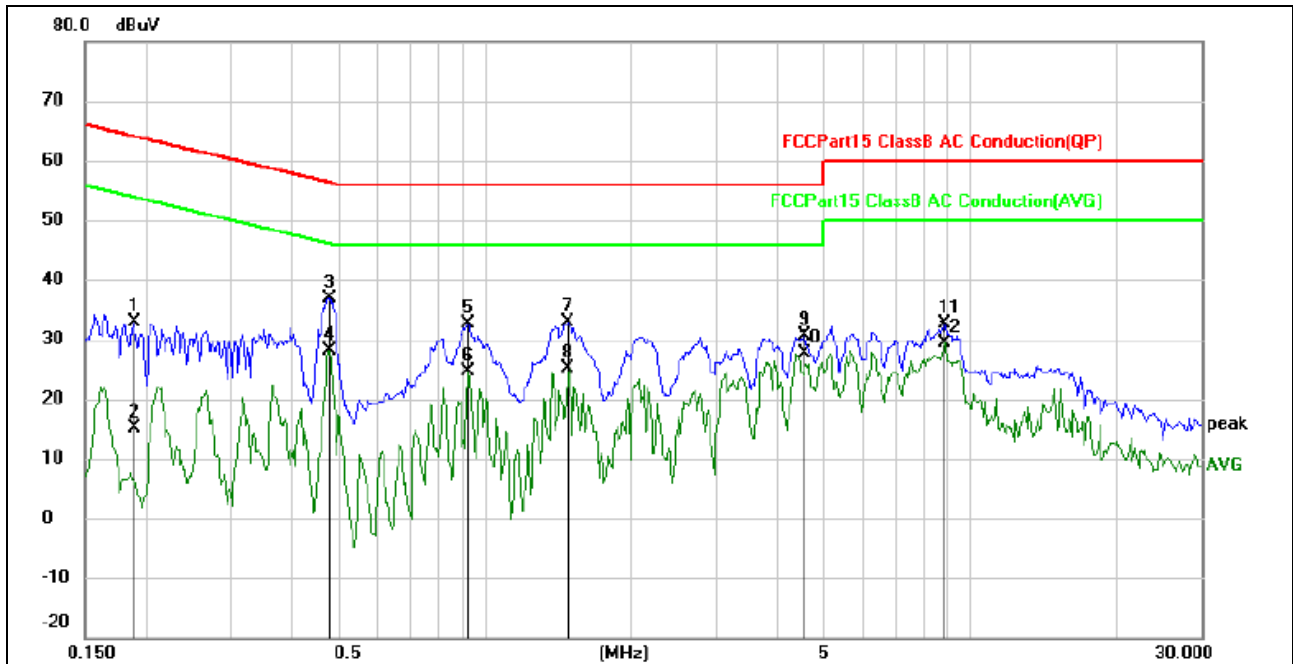
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4742	32.62	1.57	34.19	56.44	-22.25	QP	
2		0.4742	23.11	1.57	24.68	46.44	-21.76	AVG	
3		0.9113	32.49	1.57	34.06	56.00	-21.94	QP	
4		0.9113	23.98	1.57	25.55	46.00	-20.45	AVG	
5		1.4818	32.76	1.58	34.34	56.00	-21.66	QP	
6		1.4818	24.96	1.58	26.54	46.00	-19.46	AVG	
7		2.1030	32.90	1.52	34.42	56.00	-21.58	QP	
8		2.1030	25.33	1.52	26.85	46.00	-19.15	AVG	
9		4.4492	32.75	0.64	33.39	56.00	-22.61	QP	
10	*	4.4492	29.70	0.64	30.34	46.00	-15.66	AVG	
11		8.8397	33.93	0.39	34.32	60.00	-25.68	QP	
12		8.8397	30.57	0.39	30.96	50.00	-19.04	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



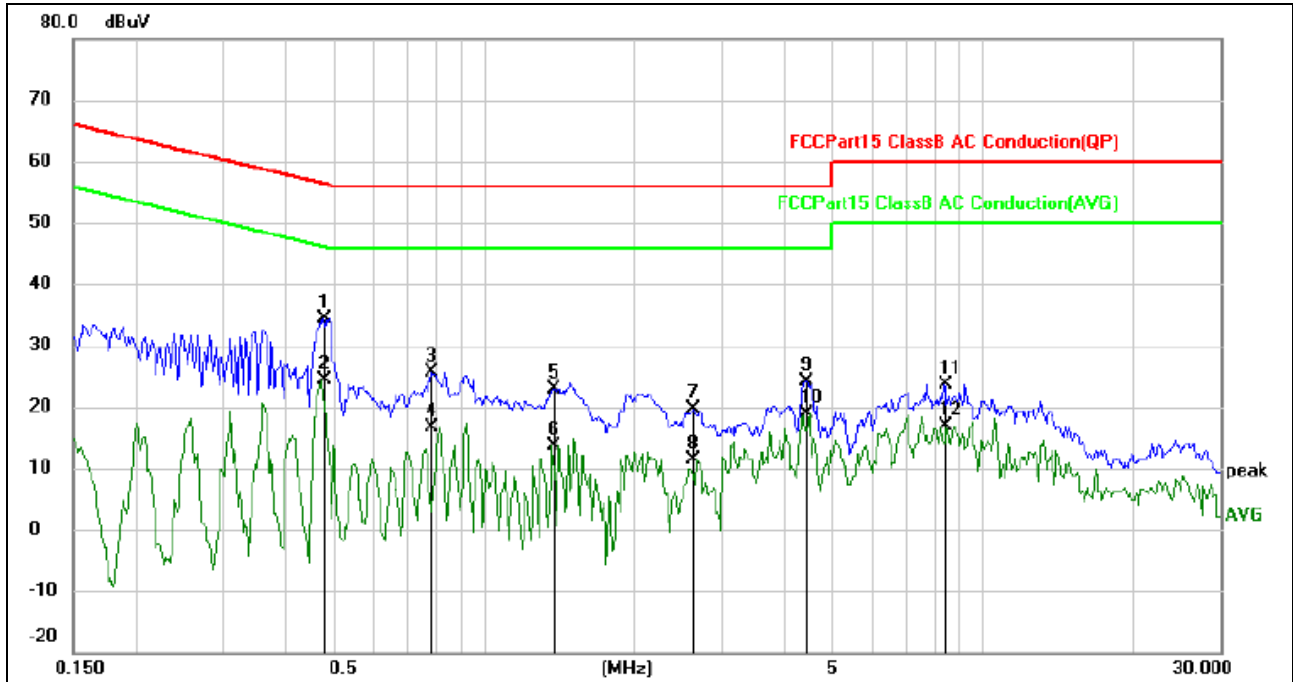
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1904	33.41	1.57	34.98	64.02	-29.04	QP	
2		0.1904	19.32	1.57	20.89	54.02	-33.13	AVG	
3	*	0.4818	38.66	1.57	40.23	56.31	-16.08	QP	
4		0.4818	28.12	1.57	29.69	46.31	-16.62	AVG	
5		0.9233	27.03	1.57	28.60	56.00	-27.40	QP	
6		0.9233	19.24	1.57	20.81	46.00	-25.19	AVG	
7		2.0367	27.66	1.56	29.22	56.00	-26.78	QP	
8		2.0367	18.31	1.56	19.87	46.00	-26.13	AVG	
9		4.4256	26.99	0.65	27.64	56.00	-28.36	QP	
10		4.4256	22.07	0.65	22.72	46.00	-23.28	AVG	
11		9.2301	25.23	0.39	25.62	60.00	-34.38	QP	
12		9.2301	19.04	0.39	19.43	50.00	-30.57	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1890	31.35	1.57	32.92	64.08	-31.16	QP	
2		0.1890	13.54	1.57	15.11	54.08	-38.97	AVG	
3		0.4786	35.38	1.57	36.95	56.36	-19.41	QP	
4	*	0.4786	26.61	1.57	28.18	46.36	-18.18	AVG	
5		0.9233	31.15	1.57	32.72	56.00	-23.28	QP	
6		0.9233	22.98	1.57	24.55	46.00	-21.45	AVG	
7		1.4818	31.26	1.58	32.84	56.00	-23.16	QP	
8		1.4818	23.46	1.58	25.04	46.00	-20.96	AVG	
9		4.5734	30.02	0.57	30.59	56.00	-25.41	QP	
10		4.5734	27.05	0.57	27.62	46.00	-18.38	AVG	
11		8.8688	32.31	0.39	32.70	60.00	-27.30	QP	
12		8.8688	29.01	0.39	29.40	50.00	-20.60	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4781	32.92	1.57	34.49	56.37	-21.88	QP	
2		0.4781	22.92	1.57	24.49	46.37	-21.88	AVG	
3		0.7861	24.06	1.57	25.63	56.00	-30.37	QP	
4		0.7861	14.95	1.57	16.52	46.00	-29.48	AVG	
5		1.3804	21.31	1.58	22.89	56.00	-33.11	QP	
6		1.3804	12.10	1.58	13.68	46.00	-32.32	AVG	
7		2.6360	18.45	1.18	19.63	56.00	-36.37	QP	
8		2.6360	10.09	1.18	11.27	46.00	-34.73	AVG	
9		4.4256	23.49	0.65	24.14	56.00	-31.86	QP	
10		4.4256	18.35	0.65	19.00	46.00	-27.00	AVG	
11		8.4100	23.14	0.39	23.53	60.00	-36.47	QP	
12		8.4100	16.43	0.39	16.82	50.00	-33.18	AVG	

5.3 Radiated spurious emission

5.3.1 Limits

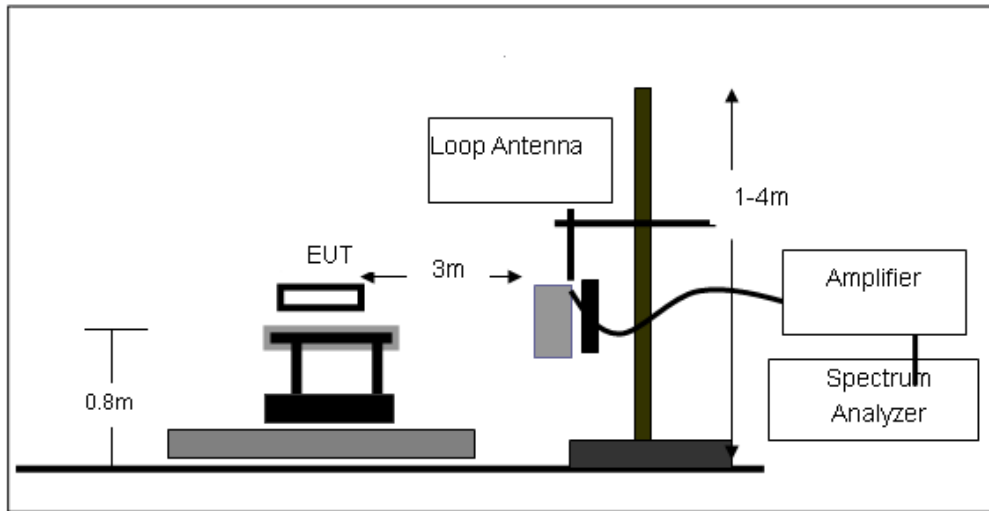
Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

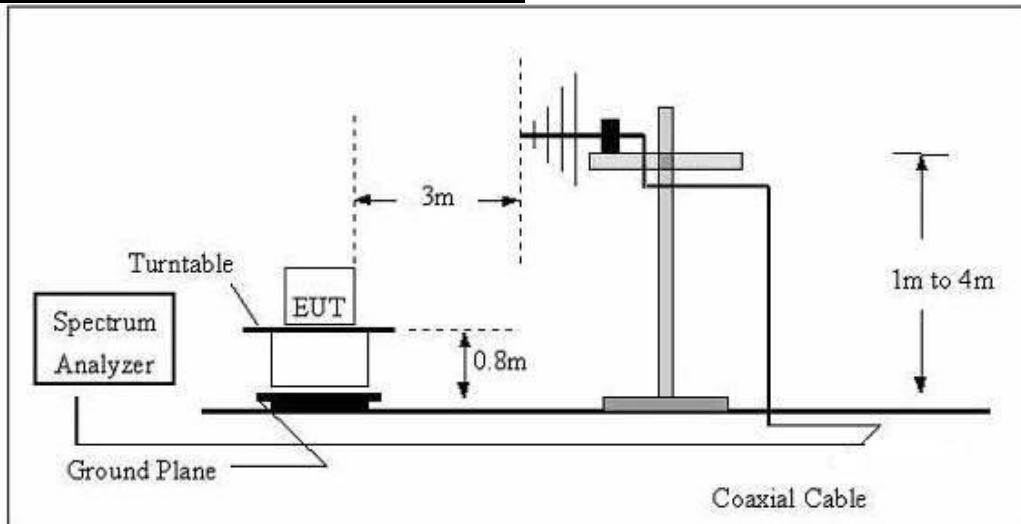
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test setup

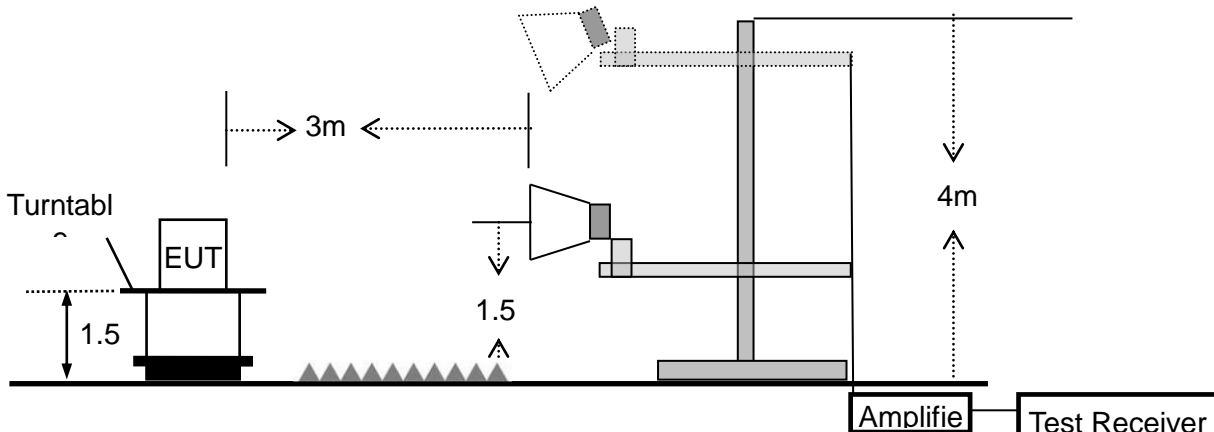
Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.3 Test procedure

- a. EUT operating conditions. The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.
- b. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- c. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter shield area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

5.3.4 Test results

5.3.4.1 Radiation emission

Below 30MHz

EUT:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name:	T1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 5V from adapter
Test Mode:	TX	Polarization :	--

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

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

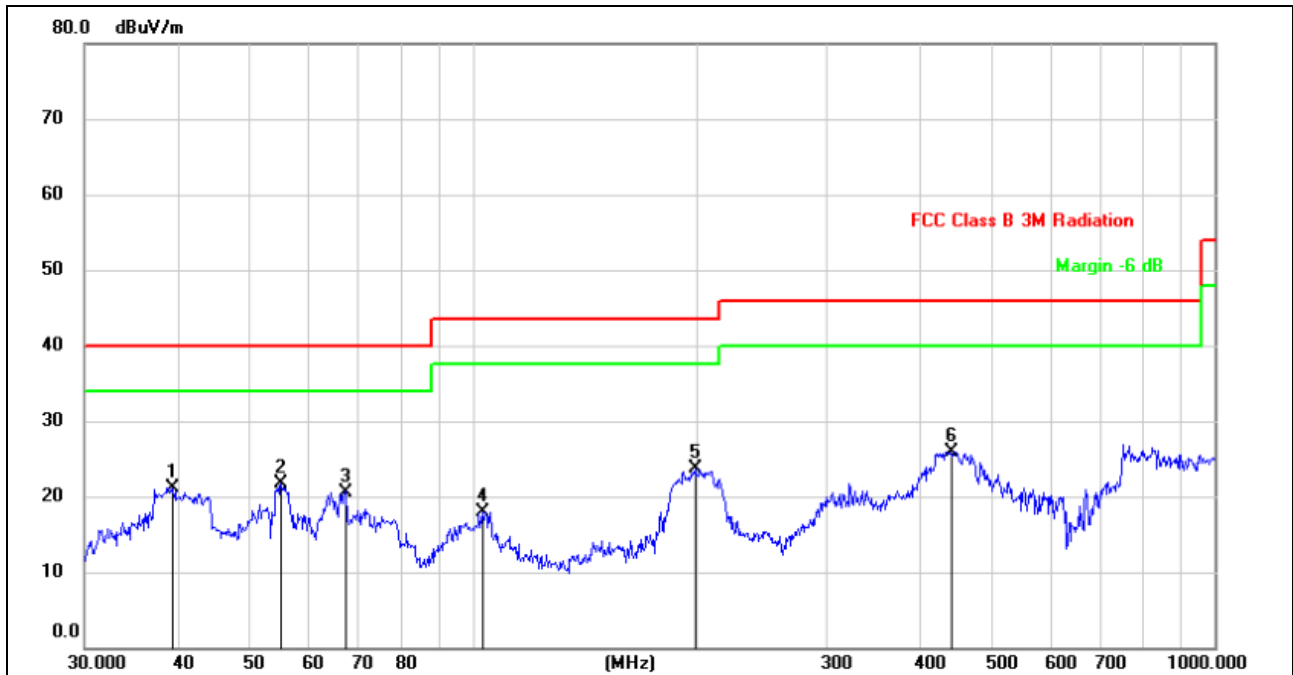
Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

Between 30MHz – 1GHz:

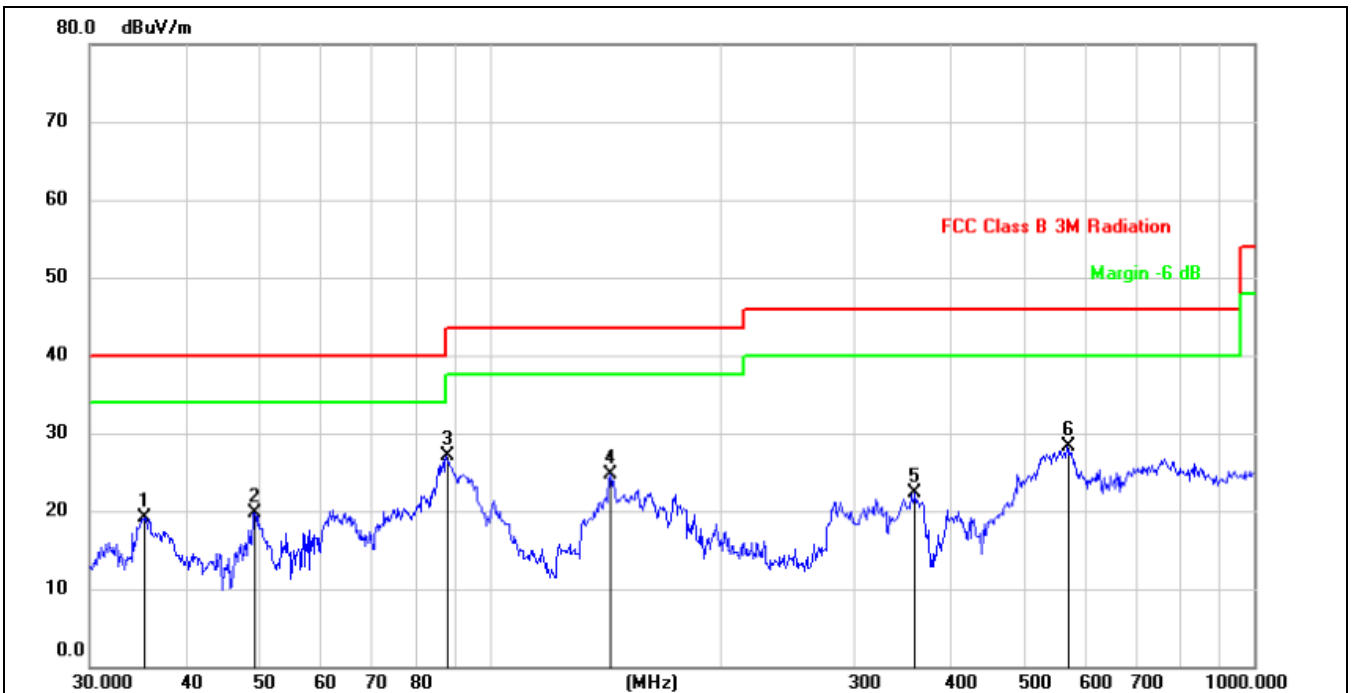
All the modulation modes have been tested, and the worst result was report as below:

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Relative Humidity:	52%	Phase:	H
Pressure:	1010 hPa	Test Voltage :	DC 5V from adapter AC 120V/60Hz
Test Mode :	Normal link		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1		39.4371	31.71	-10.61	21.10	40.00	-18.90	peak
2	*	55.2207	32.06	-10.45	21.61	40.00	-18.39	peak
3		67.4381	33.64	-13.04	20.60	40.00	-19.40	peak
4		103.0800	29.33	-11.44	17.89	43.50	-25.61	peak
5		199.2855	35.50	-11.83	23.67	43.50	-19.83	peak
6		440.1963	31.95	-5.96	25.99	46.00	-20.01	peak

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Relative Humidity:	52%	Phase:	V
Pressure:	1010 hPa	Test Voltage :	DC 5V from adapter AC 120V/60Hz
Test Mode :	Normal link		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.3750	30.37	-11.25	19.12	40.00	-20.88	peak
2		49.3594	29.34	-9.66	19.68	40.00	-20.32	peak
3	*	87.7248	40.71	-13.65	27.06	40.00	-12.94	peak
4		143.8292	38.39	-13.73	24.66	43.50	-18.84	peak
5		360.4476	29.70	-7.37	22.33	46.00	-23.67	peak
6		568.6127	33.16	-4.88	28.28	46.00	-17.72	peak

1G-25GHz

- 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
 (3) All other emissions more than 20dB below the limit.

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

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2402 MHz)-Above 1G									
4804.34	62.80	5.21	35.59	44.30	59.30	74.00	-14.70	Pk	Vertical
4804.34	41.49	5.21	35.59	44.30	37.99	54.00	-16.01	AV	Vertical
7206.11	60.19	6.48	36.27	44.60	58.34	74.00	-15.66	Pk	Vertical
7206.11	41.05	6.48	36.27	44.60	39.20	54.00	-14.80	AV	Vertical
4804.17	62.99	5.21	35.55	44.30	59.45	74.00	-14.55	Pk	Horizontal
4804.17	42.21	5.21	35.55	44.30	38.67	54.00	-15.33	AV	Horizontal
7206.21	62.24	6.48	36.27	44.52	60.47	74.00	-13.53	Pk	Horizontal
7206.21	41.04	6.48	36.27	44.52	39.27	54.00	-14.73	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G									
4880.47	62.46	5.21	35.66	44.20	59.13	74.00	-14.87	Pk	Vertical
4880.47	44.26	5.21	35.66	44.20	40.93	54.00	-13.07	AV	Vertical
7320.27	65.77	7.10	36.50	44.43	64.94	74.00	-9.06	Pk	Vertical
7320.27	42.30	7.10	36.50	44.43	41.47	54.00	-12.53	AV	Vertical
4880.37	63.05	5.21	35.66	44.20	59.72	74.00	-14.28	Pk	Horizontal
4880.37	41.56	5.21	35.66	44.20	38.23	54.00	-15.77	AV	Horizontal
7320.23	61.03	7.10	36.50	44.43	60.20	74.00	-13.80	Pk	Horizontal
7320.23	44.04	7.10	36.50	44.43	43.21	54.00	-10.79	AV	Horizontal
High Channel (2480 MHz)- Above 1G									
4960.48	64.30	5.21	35.52	44.21	60.82	74.00	-13.18	Pk	Vertical
4960.48	43.04	5.21	35.52	44.21	39.56	54.00	-14.44	AV	Vertical
7440.13	65.40	7.10	36.53	44.60	64.43	74.00	-9.57	Pk	Vertical
7440.13	49.24	7.10	36.53	44.60	48.27	54.00	-5.73	AV	Vertical
4960.33	62.96	5.21	35.52	44.21	59.48	74.00	-14.52	Pk	Horizontal
4960.33	43.77	5.21	35.52	44.21	40.29	54.00	-13.71	AV	Horizontal
7440.2	63.53	7.10	36.53	44.60	62.56	74.00	-11.44	Pk	Horizontal
7440.2	45.89	7.10	36.53	44.60	44.92	54.00	-9.08	AV	Horizontal

5.3.4.2 Bandedge-radiated

- 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
 (3) All other emissions more than 20dB below the limit.

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

Frequency (MHz)	Meter Reading (dBμV)	Cable Loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
GFSK									
2310.00	64.17	2.97	27.80	43.80	51.14	74	-22.86	Pk	Horizontal
2310.00	42.92	2.97	27.80	43.80	29.89	54	-24.11	AV	Horizontal
2310.00	61.69	2.97	27.80	43.80	48.66	74	-25.34	Pk	Vertical
2310.00	41.72	2.97	27.80	43.80	28.69	54	-25.31	AV	Vertical
2390.00	63.70	3.14	27.21	43.80	50.25	74	-23.75	Pk	Vertical
2390.00	43.29	3.14	27.21	43.80	29.84	54	-24.16	AV	Vertical
2390.00	63.93	3.14	27.21	43.80	50.48	74	-23.52	Pk	Horizontal
2390.00	42.37	3.14	27.21	43.80	28.92	54	-25.08	AV	Horizontal
2483.50	62.43	3.58	27.70	44.00	49.71	74	-24.29	Pk	Vertical
2483.50	42.26	3.58	27.70	44.00	29.54	54	-24.46	AV	Vertical
2483.50	65.73	3.58	27.70	44.00	53.01	74	-20.99	Pk	Horizontal
2483.50	43.51	3.58	27.70	44.00	30.79	54	-23.21	AV	Horizontal

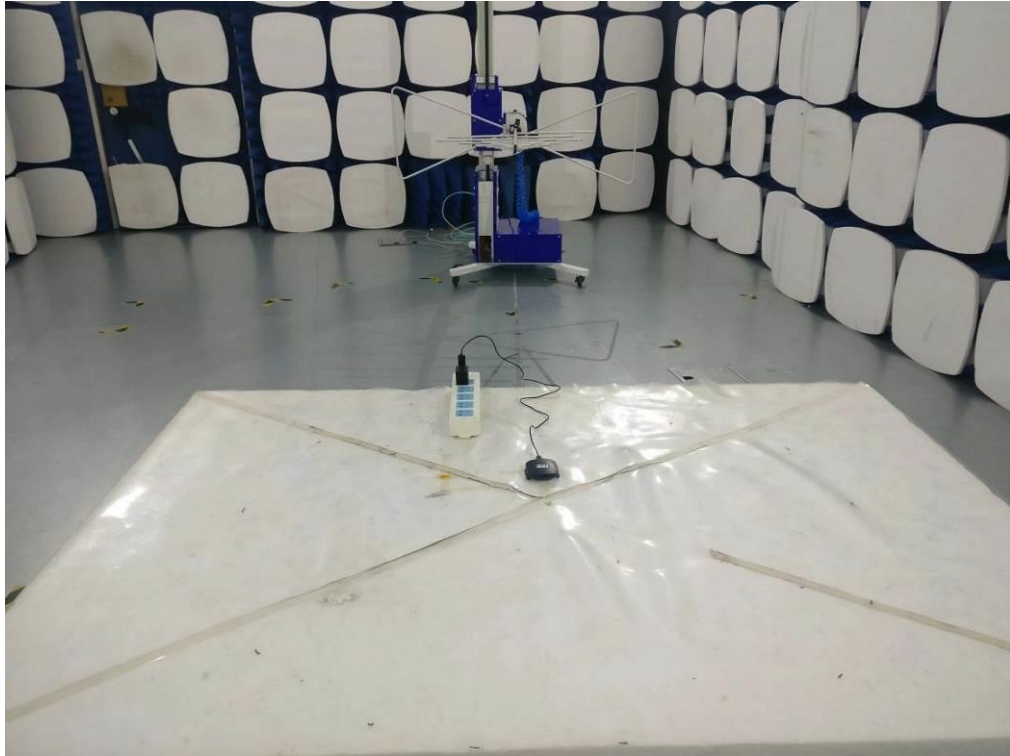
5.3.4.3 Spurious Emission in Restricted Band 3260MHz-18000MHz

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

Frequency (MHz)	Reading Level (dB μ V)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type	Comment
3260	62.70	4.04	29.57	44.70	51.61	74	-22.39	Pk	Vertical
3260	55.78	4.04	29.57	44.70	44.69	54	-9.31	AV	Vertical
3260	65.42	4.04	29.57	44.70	54.33	74	-19.67	Pk	Horizontal
3260	56.86	4.04	29.57	44.70	45.77	54	-8.23	AV	Horizontal
3332	64.81	4.26	29.87	44.40	54.54	74	-19.46	Pk	Vertical
3332	56.98	4.26	29.87	44.40	46.71	54	-7.29	AV	Vertical
3332	63.84	4.26	29.87	44.40	53.57	74	-20.43	Pk	Horizontal
3332	50.35	4.26	29.87	44.40	40.08	54	-13.92	AV	Horizontal
17797	44.50	10.99	43.95	43.50	55.94	74	-18.06	Pk	Vertical
17797	34.00	10.99	43.95	43.50	45.44	54	-8.56	AV	Vertical
17788	42.95	11.81	43.69	44.60	53.85	74	-20.15	Pk	Horizontal
17788	34.88	11.81	43.69	44.60	45.78	54	-8.22	AV	Horizontal

Photographs of the Test Setup

Radiated emission



Conducted emission



Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report No.: MTi181018E051-1.

----END OF REPORT----