

FCC RF Test Report

(GSM)

Applicant: Livongo Health, Inc.
Address of Applicant: 150 W. Evelyn, Suite 150, Mountain View, CA 94041
Equipment Under Test (EUT)
Product Name: Livongo Blood Glucose Monitoring System
Model No.: BG1000
Trade mark: 
FCC ID: 2AA92LV02799
Applicable standards: FCC CFR Title 47 Part 2, 22H, 24E
Date of sample receipt: 04 Jul., 2021
Date of Test: 05 Jul., to 23 Nov., 2021
Date of report issued: 13 Dec., 2021
Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Tested by:

Mike Ou

Test Engineer

Date:

13 Dec., 2021

Reviewed by:

Wen Zhang

Project Engineer

Date:

13 Dec., 2021

Approved by:

Wen Zhang

Manager

Date:

13 Dec., 2021

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2. Version

Version No.	Date	Description
00	13 Dec., 2021	Original

3. Contents

Page

1. COVER PAGE.....	1
2. VERSION.....	2
3. CONTENTS.....	3
4. TEST SUMMARY.....	4
5. GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF E.U.T.....	5
5.3 TEST ENVIRONMENT AND MODE	6
5.4 DESCRIPTION OF TEST AUXILIARY EQUIPMENT.....	6
5.5 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD.....	6
5.6 MEASUREMENT UNCERTAINTY.....	6
5.7 LABORATORY FACILITY.....	6
5.8 LABORATORY LOCATION	7
5.9 TEST INSTRUMENTS LIST.....	7
6. RADIO TECHNICAL REQUIREMENTS SPECIFICATION.....	8
6.1 TEST METHOD	8
6.2 TEST LIMIT	8
6.3 TEST CONFIGURATION OF EUT	9
6.4 TEST SETUP BLOCK	10
6.5 TEST RESULTS	12
7. TEST SETUP PHOTO.....	16
8. EUT CONSTRUCTIONAL DETAILS	16

4. Test Summary

Test Item	Section in CFR 47	Result
Effective radiated power(For GSM 850), Effective Isotropic Radiated Power(For PCS1900)	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c)	Pass
Peak-to-Average Power Ratio	Part 22.913 (d) Part 24.232 (d)	Pass
-26dB Bandwidth Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass
Band Edge	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Conducted Spurious Emission	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field strength of spurious radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability	Part 22.355 Part 24.235 Part 2.1055(a)(1)(b) Part 2.1055(d)(2)	Pass
Modulation Characteristics	Part 2.1047(a)	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard.		
Test Method:	ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03r01 KDB 412172 D01 Determining ERP and EIRP v01r01	

5. General Information

5.1 Client Information

Applicant:	Livongo Health, Inc.
Address:	150 W. Evelyn, Suite 150, Mountain View, CA 94041
Manufacturer:	Livongo Health, Inc.
Address:	150 W. Evelyn, Suite 150, Mountain View, CA 94041

5.2 General Description of E.U.T.

Product Name:	Livongo Blood Glucose Monitoring System		
Model No.:	BG1000		
Operation Frequency range:	GSM 850:	824.20MHz-848.80MHz	
	PCS1900:	1850.20MHz-1909.80MHz	
Modulation type:	☐ Voice(GMSK)	☒ GPRS(GMSK)	☒ EGPRS(GMSK, 8PSK)
Antenna type:	Internal Antenna		
Antenna gain:	GSM 850:	-1.61 dBi(declare by Applicant)	
	PCS 1900:	0.87 dBi(declare by Applicant)	
Power supply:	Rechargeable Li-ion Polymer Battery DC 3.85V, 2400mAh Manufacturer: ShenZhen BYD Lithium Battery Company Limited		
AC adapter:	Adapter 1: Model: PSAA05E-050QL6W-R Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter 2: Model: PSAA05A-050QL6W-R Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter 3: Model: PSAA05K-050QL6W-R Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Note: Only the pins are different between different models		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85 Vdc, Extreme: Low 3.5 Vdc, High 4.4 Vdc
Test mode:	
GPRS mode	Keep the EUT communication with simulated station in GPRS mode
EGPRS mode	Keep the EUT communication with simulated station in EGPRS mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

5.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Rohde & Schwarz	CMW500	140493

5.5 Additions to, deviations, or exclusions from the method

No

5.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2020	11-26-2021
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022
Simulated Station	Rohde & Schwarz	CMW500	WXJ008-3	06-17-2021	06-16-2022
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (18GHz ~ 40GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	RE/RSE/RS Test System	Version: 3.0.0.1		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	07-02-2021	07-01-2022
DC Power Supply	Keysight	E3642A	WXJ025-2	11-27-2020	11-26-2021
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
RF Control Unit	Tonscend	JS0806-1	WXG006-1	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	WXG006-2	N/A	N/A
Test Software	Tonscend	JS1120 RF Test System	Version: 2.6.9.0526		

6. Radio Technical Requirements Specification

6.1 Test Method

The EUT and test equipment were configured testing of according to ANSI C63.26-2015 and ANSI/TIA-603-E-2016.

The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

6.2 Test Limit

Test Item	Clause	Limit																																				
Effective Isotropic Radiated Power	Part 22.913(a)(5)	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.																																				
	Part 24.232(c)	Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.																																				
Peak-to-Average Power Ratio	Part 22.913(d)	The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.																																				
	Part 24.232(d)	In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.																																				
26dB Bandwidth & Occupied Bandwidth	Part 22.917(b) Part 24.238(b)	The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.																																				
Band Edge & Conducted Spurious Emission & Field strength of spurious radiation	Part 22.917(a) Part 24.238(a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.																																				
Frequency stability	Part 22.355	<table><tr><th colspan="4">TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES</th></tr><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table>	TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES				Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	450 to 512	2.5	5.0	5.0	821 to 896	1.5	2.5	2.5	928 to 929	5.0	n/a	n/a	929 to 960	1.5	n/a	n/a	2110 to 2220	10.0	n/a	n/a
	TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES																																					
Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)																																			
25 to 50	20.0	20.0	50.0																																			
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450 to 512	2.5	5.0	5.0																																			
821 to 896	1.5	2.5	2.5																																			
928 to 929	5.0	n/a	n/a																																			
929 to 960	1.5	n/a	n/a																																			
2110 to 2220	10.0	n/a	n/a																																			
	Part 24.235	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.																																				
Modulation Characteristics	Part 2.1047(a)	Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.																																				

6.3 Test Configuration of EUT

6.3.1 Operation Frequency List:

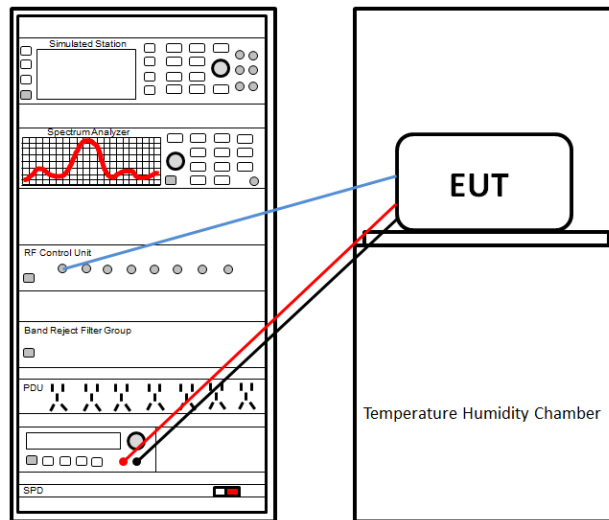
GSM 850		PCS1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....			
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

GSM850			PCS1900		
Channel		Frequency(MHz)	Channel		Frequency(MHz)
Lowest	128	824.20	Lowest	512	1850.20
Middle	190	836.60	Middle	661	1880.00
Highest	251	848.80	Highest	810	1909.80

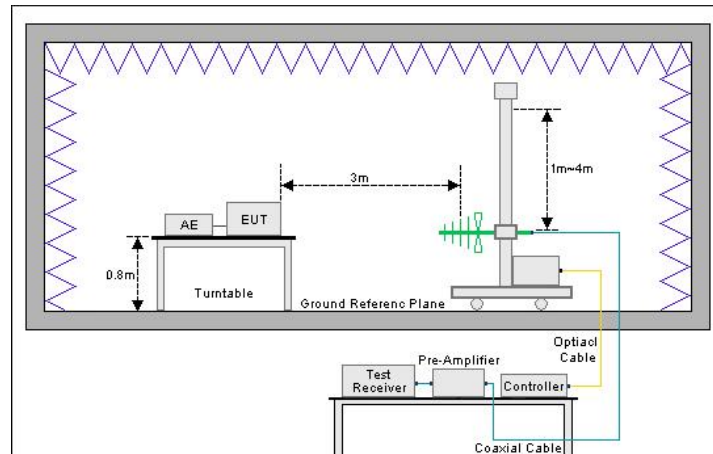
6.4 Test Setup Block

1) Conducted test method:

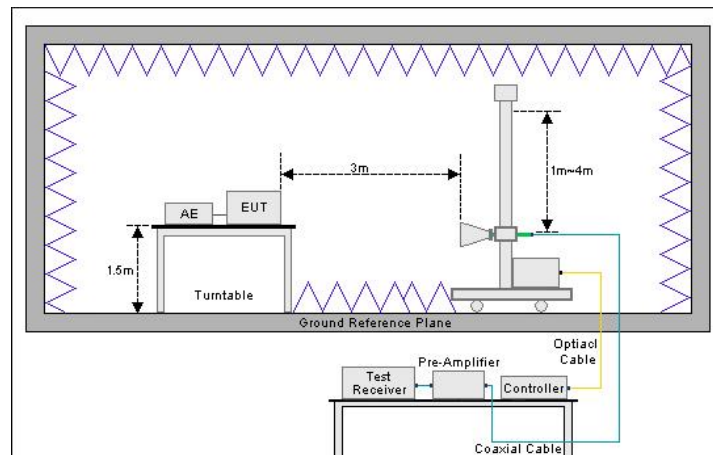


2) Radiated test method:

Below 1GHz

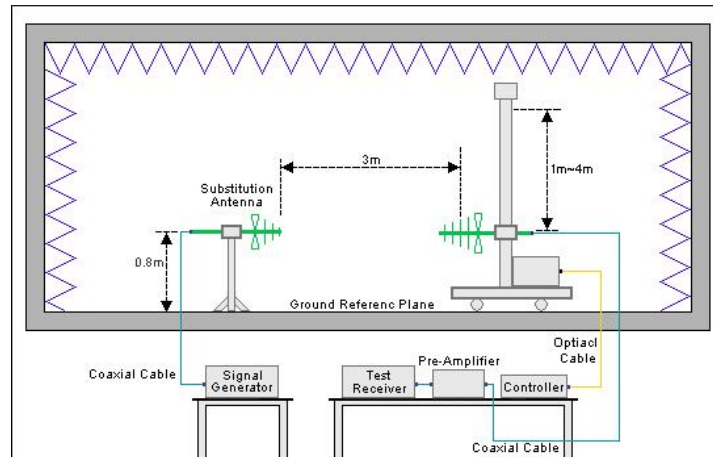


Above 1GHz

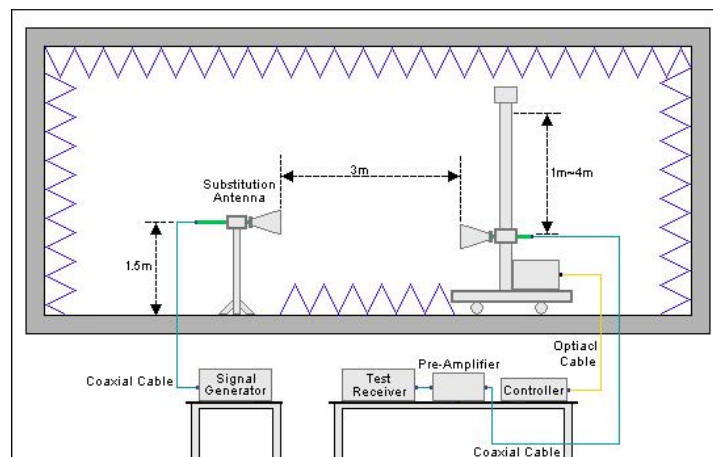


3) Substitution measurement

Below 1GHz



Above 1GHz



6.5 Test Results

6.5.1 Test Result Summary

Test Item	Channel	Modulation	Condition	Test Data	Verdict
Effective radiated power(For GSM 850), Effective Isotropic Radiated Power(For PCS1900)	Lowest Middle Highest	GPRS, EGPRS	NVNT	Appendix GSM – Appendix A	Pass
Peak-to-Average Power Ratio	Lowest Middle Highest	GPRS, EGPRS	NVNT	Appendix GSM – Appendix B	Pass
26dB Bandwidth and Occupied Bandwidth	Lowest Middle Highest	GPRS, EGPRS	NVNT	Appendix GSM – Appendix C	Pass
Band Edge	Lowest Highest	GPRS, EGPRS	NVNT	Appendix GSM – Appendix D	Pass
Conducted Spurious Emission	Lowest Middle Highest	GPRS, EGPRS	NVNT	Appendix GSM – Appendix E	Pass
Field strength of spurious radiation	Lowest Middle Highest	GSM	NVNT	See Section 6.5.2	Pass
Frequency stability	Lowest Middle Highest	GPRS, EGPRS	LVNT	Appendix GSM – Appendix F	Pass
			NVNT		
			HVNT		
			NVLT		
			NVHT		
Modulation Characteristics	Middle	GPRS, EGPRS	NVNT	Appendix GSM – Appendix G	Pass

Note:

1. “NVNT” means Normal Voltage Normal Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature, “NVLT” means Normal Voltage Low Temperature, “NVHT” means Normal Voltage High Temperature.
2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer).

6.5.2 Field strength of spurious radiation

GSM850					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1648.3310	40.78	-29.84	-13.00	16.84	Horizontal
2472.6841	31.06	-37.34	-13.00	24.34	Horizontal
4121.3061	55.76	-60.57	-13.00	47.57	Horizontal
7468.7234	48.98	-54.96	-13.00	41.96	Horizontal
8398.7699	48.89	-53.37	-13.00	40.37	Horizontal
9043.8022	47.67	-52.98	-13.00	39.98	Horizontal
1648.3310	27.25	-43.37	-13.00	30.37	Vertical
2472.6841	26.43	-41.97	-13.00	28.97	Vertical
3526.5263	52.55	-65.26	-13.00	52.26	Vertical
5701.6351	49.56	-59.50	-13.00	46.50	Vertical
7490.4745	49.00	-54.72	-13.00	41.72	Vertical
9054.3027	47.73	-52.98	-13.00	39.98	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

GSM850					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1673.0841	41.57	-28.73	-13.00	15.73	Horizontal
2509.6887	31.57	-36.79	-13.00	23.79	Horizontal
3346.5173	54.31	-64.11	-13.00	51.11	Horizontal
5701.6351	49.45	-59.61	-13.00	46.61	Horizontal
7486.7243	49.28	-54.48	-13.00	41.48	Horizontal
9560.5780	47.61	-52.08	-13.00	39.08	Horizontal
1673.0841	27.71	-42.59	-13.00	29.59	Vertical
2509.9387	27.38	-40.99	-13.00	27.99	Vertical
3513.7757	52.42	-65.24	-13.00	52.24	Vertical
5575.6288	50.33	-59.87	-13.00	46.87	Vertical
7473.9737	48.88	-55.01	-13.00	42.01	Vertical
9020.5510	47.88	-52.70	-13.00	39.70	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

GSM850					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1697.5872	39.40	-30.52	-13.00	17.52	Horizontal
2546.1933	32.35	-36.35	-13.00	23.35	Horizontal
3395.2698	54.75	-63.93	-13.00	50.93	Horizontal
5616.8808	50.99	-59.04	-13.00	46.04	Horizontal
7466.4733	49.13	-54.83	-13.00	41.83	Horizontal
9044.5522	47.53	-53.12	-13.00	40.12	Horizontal
1697.5872	31.09	-38.83	-13.00	25.83	Vertical
2546.4433	25.18	-43.51	-13.00	30.51	Vertical
3395.2698	54.87	-63.81	-13.00	50.81	Vertical
5710.6355	49.80	-59.45	-13.00	46.45	Vertical
7976.4988	48.27	-54.69	-13.00	41.69	Vertical
9002.5501	47.62	-52.90	-13.00	39.90	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

PCS1900					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1167.2709	20.80	-50.55	-13.00	37.55	Horizontal
2689.7112	20.91	-47.05	-13.00	34.05	Horizontal
3700.5350	60.19	-58.01	-13.00	45.01	Horizontal
5550.8775	53.61	-56.57	-13.00	43.57	Horizontal
7490.4745	48.42	-55.30	-13.00	42.30	Horizontal
9028.8014	47.64	-52.96	-13.00	39.96	Horizontal
1150.7688	20.90	-50.40	-13.00	37.40	Vertical
2501.6877	21.13	-47.16	-13.00	34.16	Vertical
3700.5350	61.95	-56.25	-13.00	43.25	Vertical
5550.8775	55.11	-55.07	-13.00	42.07	Vertical
7471.7236	48.71	-55.20	-13.00	42.20	Vertical
8950.7975	47.40	-53.56	-13.00	40.56	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

PCS1900					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1168.2710	20.85	-50.48	-13.00	37.48	Horizontal
2496.1870	21.24	-47.10	-13.00	34.10	Horizontal
3759.7880	58.37	-59.13	-13.00	46.13	Horizontal
5640.1320	54.43	-55.35	-13.00	42.35	Horizontal
7507.7254	48.58	-55.17	-13.00	42.17	Horizontal
9045.3023	47.81	-52.84	-13.00	39.84	Horizontal
1214.2768	20.99	-50.75	-13.00	37.75	Vertical
2692.9616	20.89	-47.04	-13.00	34.04	Vertical
3759.7880	55.96	-61.54	-13.00	48.54	Vertical
5640.1320	56.32	-53.46	-13.00	40.46	Vertical
7473.2237	48.91	-54.98	-13.00	41.98	Vertical
9520.0760	46.55	-53.24	-13.00	40.24	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

PCS1900					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1273.7842	20.94	-50.53	-13.00	37.53	Horizontal
2648.9561	21.35	-46.81	-13.00	33.81	Horizontal
3819.7910	53.86	-63.79	-13.00	50.79	Horizontal
5729.3865	57.30	-52.37	-13.00	39.37	Horizontal
11235.4118	47.06	-48.83	-13.00	35.83	Horizontal
16412.9206	47.03	-43.57	-13.00	30.57	Horizontal
1381.5477	20.61	-50.41	-13.00	37.41	Vertical
2509.1886	21.37	-46.99	-13.00	33.99	Vertical
3819.7910	56.35	-61.30	-13.00	48.30	Vertical
5729.3865	54.55	-55.12	-13.00	42.12	Vertical
11212.1606	46.99	-48.84	-13.00	35.84	Vertical
16382.9191	47.06	-43.65	-13.00	30.65	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

7. Test Setup Photo

Reference to the test setup photos: PCE-Test Setup Photo

8. EUT Constructional Details

Reference to the External photo and Internal photo.

-----End of report-----