



TEST REPORT

Application No.: HR/2019/B0013
Applicant: Telcare, LLC
Address of Applicant: 150 Baker Avenue Extension Suite 300 Concord, MA 01776 United States
Manufacturer: Teleepoch LTD
Address of Manufacturer: Room 602, Floor 6th, Building B, Software Park T3, Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China 518057
Factory: ShenZhen Luckcome Technology INC., LTD
Address of Factory: 6A, Building 6, Tongfuyu Industry Park, Tanglang, Xili Town, Nanshan District, Shenzhen, Guangdong, China
EUT Description: Blood Glucose Meter
Model No.: BGM4.0
Trade Mark: BioTel
FCC ID: 2AVLMCARE01
Standard(s): 47 CFR Part 15, Subpart B
Date of Receipt: 2019-12-20
Date of Test: 2019-12-20 to 2020-1-9
Date of Issue: 2021-8-14

Test Result:	Pass*
---------------------	--------------

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

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Xieyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086 t (86-29) 6282 7885 www.sgs.com.cn
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com



<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020-1-20		Original
02		2021-5-29	Leah Chen	1. Modify data conversion error of antenna height 2.Updated equipment list
03		2021-8-13	Leah Chen	Updated Support Units, Test facility and Test Location

* This report supersedes our previous report HR/2019/B001306, issued on 2020-1-20, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		 (Leah Chen) /Engineer
Checked By		 (Daniel Wang) /Reviewer

2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 DESCRIPTION OF SUPPORT UNITS	5
4.3 MEASUREMENT UNCERTAINTY	5
4.4 TEST LOCATION	6
4.5 TEST FACILITY	6
4.6 DEVIATION FROM STANDARDS	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENT LIST	7
6 EMISSION TEST RESULTS	8
6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz)	8
6.1.1 E.U.T. Operation	8
6.1.2 Test Setup Diagram	8
6.1.3 Measurement Data	8
6.2 RADIATED EMISSIONS (30MHz-1GHz)	11
6.2.1 E.U.T. Operation	11
6.2.2 Test Setup Diagram	11
6.2.3 Measurement Data	11
6.3 RADIATED EMISSIONS (ABOVE 1GHz)	14
6.3.1 E.U.T. Operation	14
6.3.2 Test Setup Diagram	14
6.3.3 Measurement Data	14
7 PHOTOGRAPHS	17
7.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz) TEST SETUP	17
7.2 RADIATED EMISSIONS (30MHz-1GHz) TEST SETUP	17
7.3 RADIATED EMISSIONS (ABOVE 1GHz) TEST SETUP	17
7.4 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	17

4 General Information

4.1 Details of E.U.T.

Adaptor:	model: XYLC5W-4.8V0.5A-1299 Input: 100-240V~50/60Hz, 0.19A Out Power: 4.8V / 0.5A
Battery	model: AC0010 Standard Capacity: 980mAh 3.773Wh Nominal Voltage:3.85V
EUT Description::	Blood Glucose Meter
Model No.:	BGM4.0
Trade Mark:	BioTel
Hardware Version:	BG2802_MB_V2.2
Software Version:	BG2802_01.01.07.131752
Antenna Gain:	LTE Band 2: 0.9dBi; LTE Band 4: 0.7dBi LTE Band 5: -1.2dBi LTE Band 13: -1.5dBi LTE Band 25: 0.9dBi LTE Band 26: -1.2dBi LTE Band 66: 0.7dBi Bluetooth/2.4G WiFi: 1.2dBi GNSS RX

4.2 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

4.4 Test Location

All tests were performed at:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **FCC –Designation Number: CN1271.**

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR
5G UXM	Keysight	E7515B	XAW01-19-01	2019-08-17	2020-08-16
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR
5G UXM	Keysight	E7515B	XAW01-19-01	2019-08-17	2020-08-16
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

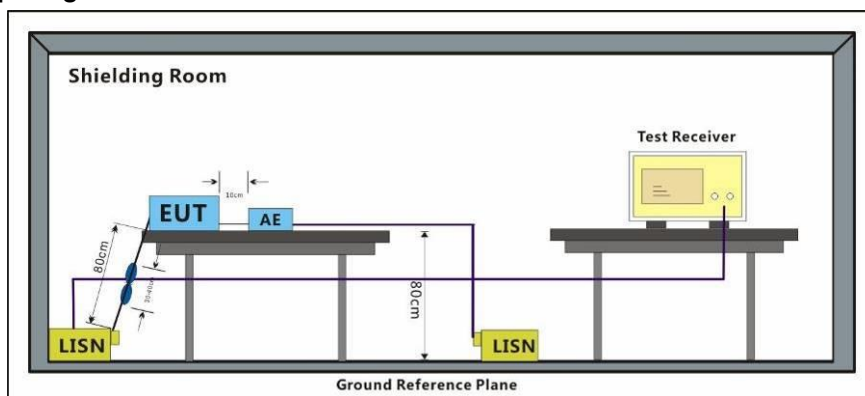
6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	18.9 °C	Humidity:	55.1 % RH	Atmospheric Pressure:	1000 mbar
Pretest these modes to find the worst case:	o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Front p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+MPE r: LTE Band 13 Rx +WiFi +BT+GPS Rx+Adapter +Earphone s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter +Earphone t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter +Earphone u: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter +Earphone v: LTE Band 25 Rx +WiFi +BT+GPS Rx+USB link +Earphone				

The worst case for final test: p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back

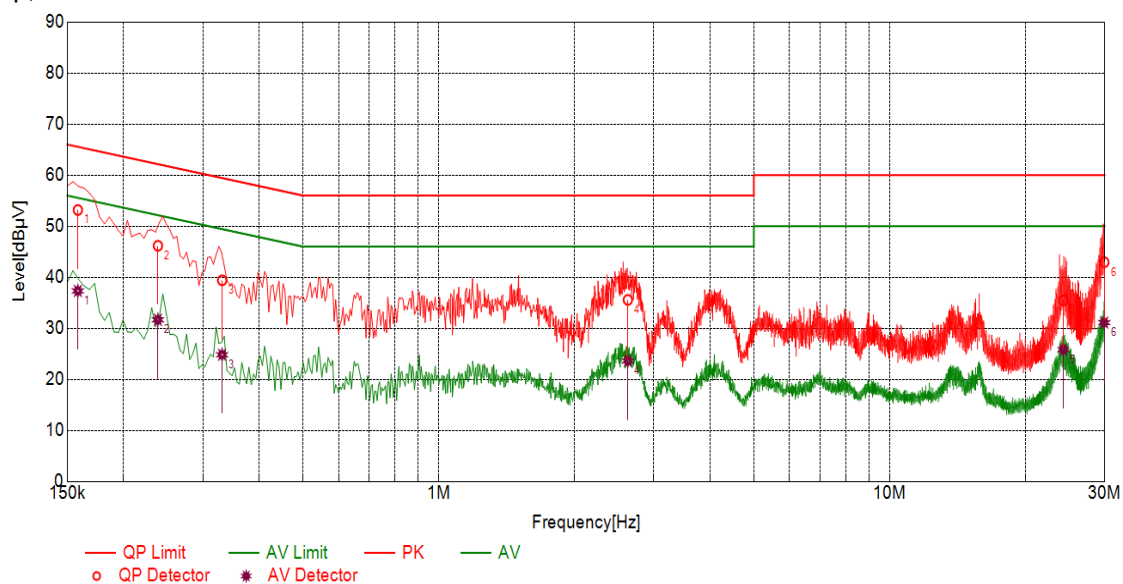
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

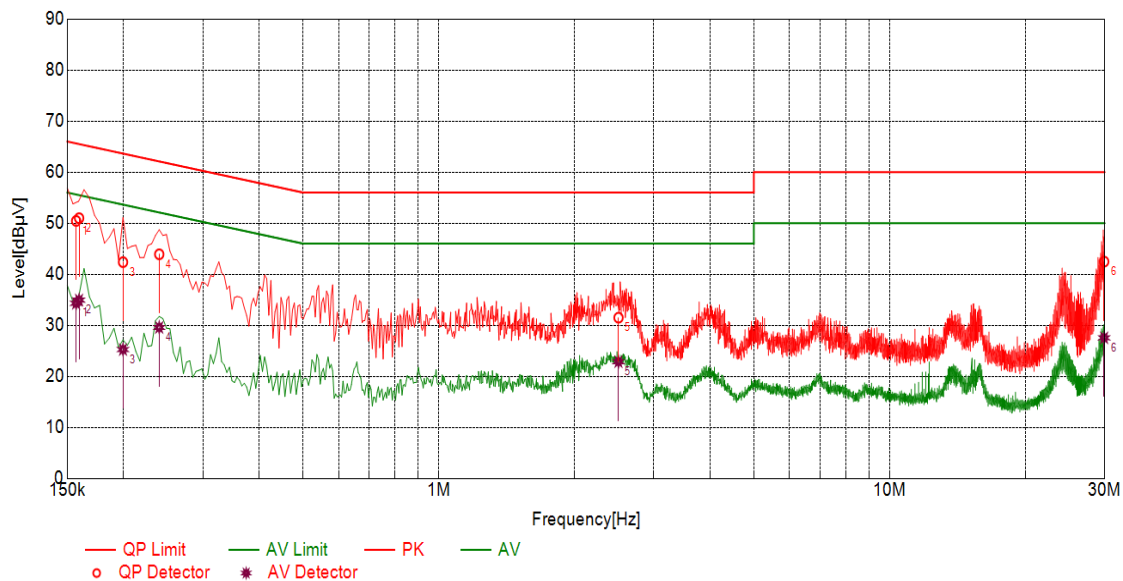
Mode:p; Line:Live Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1584	10.10	53.17	65.55	12.38	37.32	55.55	18.23	L
2	0.2384	10.10	46.16	62.15	15.99	31.66	52.15	20.49	L
3	0.3309	10.10	39.40	59.43	20.03	24.82	49.43	24.61	L
4	2.6272	10.10	35.56	56.00	20.44	23.60	46.00	22.40	L
5	24.2856	10.11	35.46	60.00	24.54	25.82	50.00	24.18	L
6	29.9297	10.11	42.94	60.00	17.06	31.11	50.00	18.89	L

Mode:p; Line:Neutral Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1570	10.10	50.44	65.62	15.18	34.30	55.62	21.32	N
2	0.1594	10.10	50.99	65.49	14.50	34.94	55.49	20.55	N
3	0.1995	10.10	42.37	63.63	21.26	25.25	53.63	28.38	N
4	0.2400	10.10	43.91	62.10	18.19	29.57	52.10	22.53	N
5	2.5044	10.10	31.49	56.00	24.51	22.87	46.00	23.13	N
6	29.9103	10.11	42.48	60.00	17.52	27.54	50.00	22.46	N

6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

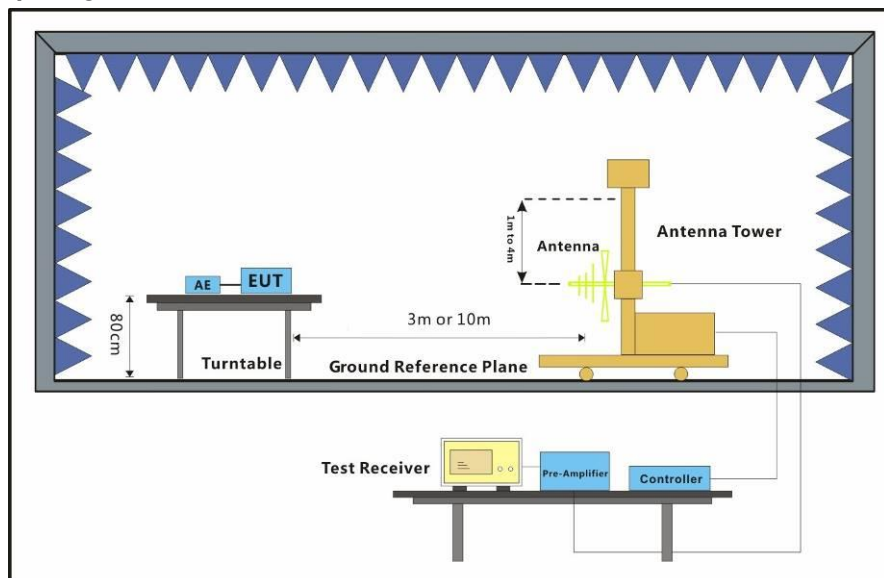
6.2.1 E.U.T. Operation

Operating Environment:

Temperature:	25 °C	Humidity:	66.5 % RH	Atmospheric Pressure:	1010 mbar
Pretest these modes to find the worst case:	o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Front p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+MPE r: LTE Band 13 Rx +WiFi +BT+GPS Rx+Adapter +Earphone s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter +Earphone t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter +Earphone u: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter +Earphone v: LTE Band 25 Rx +WiFi +BT+GPS Rx+USB link +Earphone				

The worst case o: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back for final test:

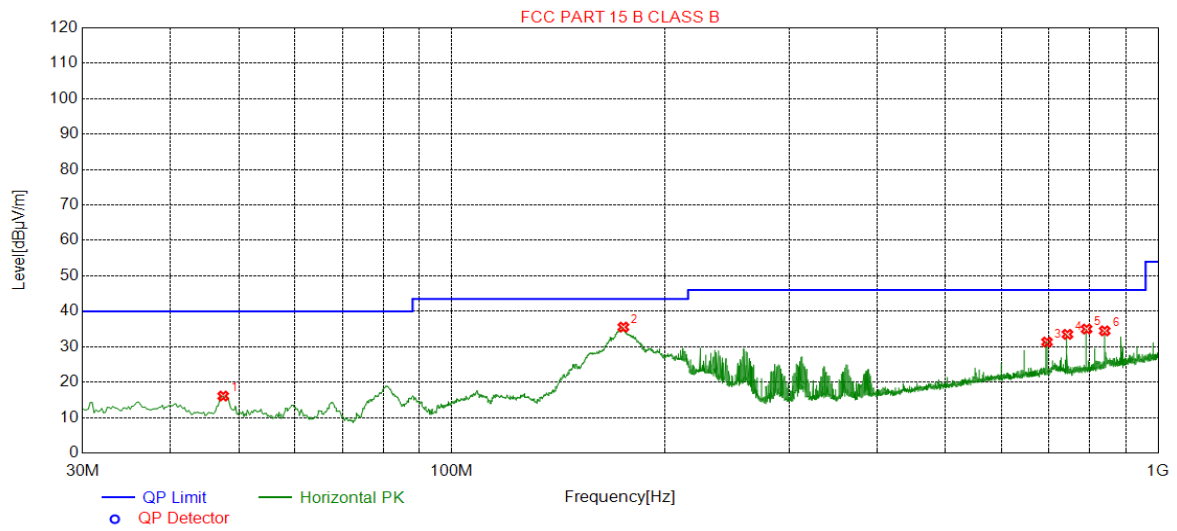
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

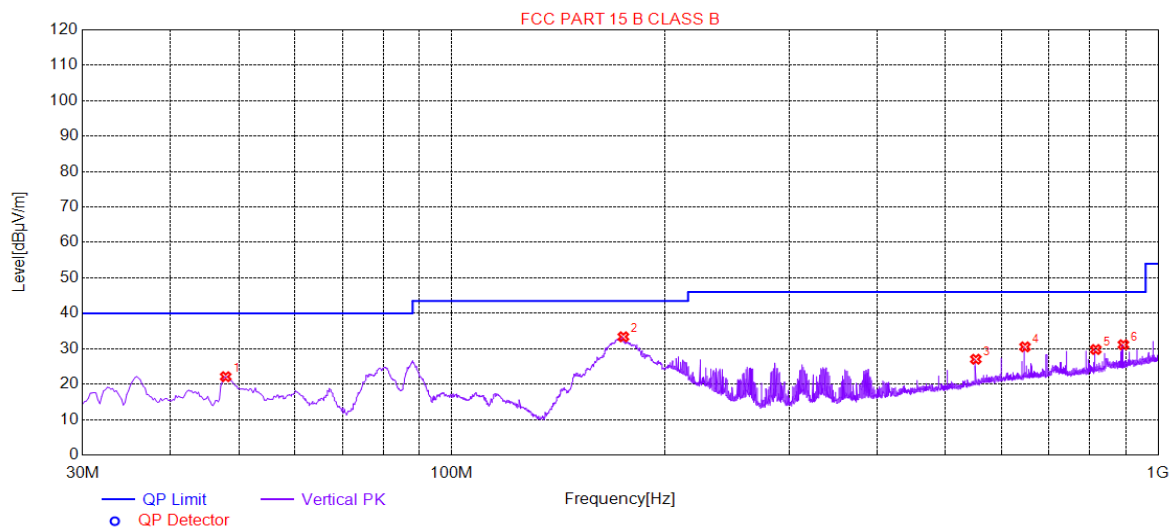
Mode:o; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4635	16.08	-30.40	40.00	23.92	135	52	Horizontal
2	174.947	35.54	-33.67	43.50	7.96	220	34	Horizontal
3	696.135	31.32	-19.55	46.00	14.68	175	341	Horizontal
4	744.062	33.50	-18.47	46.00	12.50	154	14	Horizontal
5	791.990	34.99	-17.88	46.00	11.01	120	341	Horizontal
6	840.112	34.47	-17.06	46.00	11.53	111	14	Horizontal

Mode:o; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.8516	22.11	-30.39	40.00	17.89	197	89	Vertical
2	174.947	33.37	-33.67	43.50	10.13	175	331	Vertical
3	551.964	27.04	-21.98	46.00	18.96	213	280	Vertical
4	648.013	30.53	-20.05	46.00	15.47	259	267	Vertical
5	816.051	29.78	-17.50	46.00	16.22	242	30	Vertical
6	892.890	31.13	-16.15	46.00	14.87	229	36	Vertical

6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

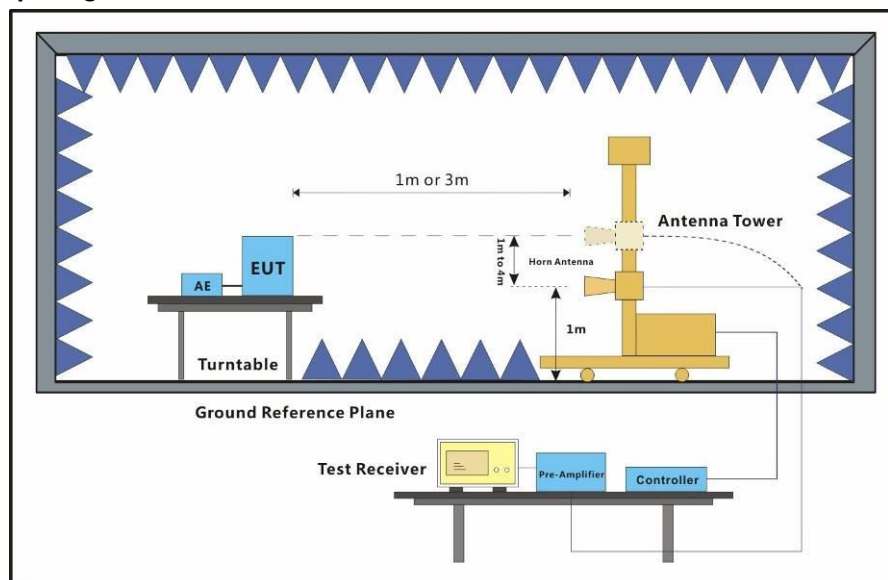
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar
 Pretest these modes to find the worst case:
 o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Front
 p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back
 q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+MPE
 r: LTE Band 13 Rx +WiFi +BT+GPS Rx+Adapter +Earphone
 s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter +Earphone
 t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter +Earphone
 u: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter +Earphone
 v: LTE Band 25 Rx +WiFi +BT+GPS Rx+USB link +Earphone

The worst case for final test: o: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+Earphone+Camera Back

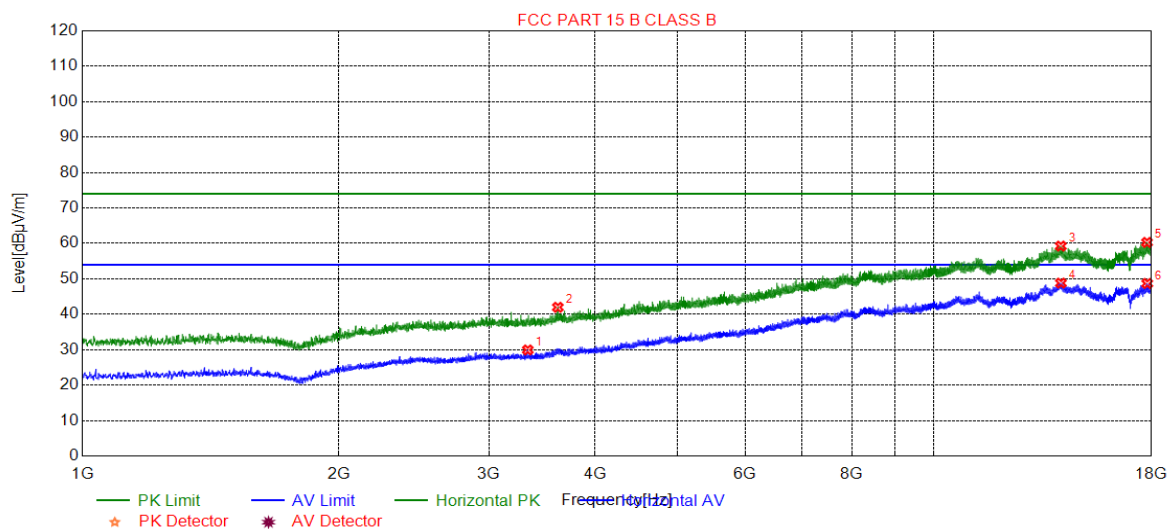
6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

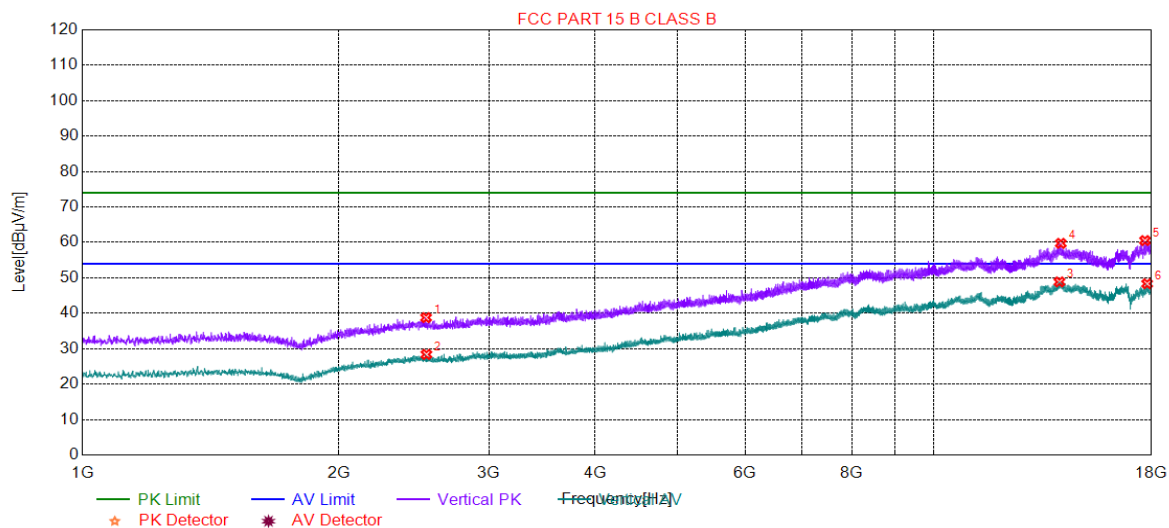
Mode:o; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3333.36	29.95	-23.69	54.00	24.05	191	69	Horizontal
2	3615.58	41.98	-22.69	74.00	32.02	143	191	Horizontal
3	14083.0	59.25	2.34	74.00	14.75	120	120	Horizontal
4	14088.1	48.80	2.35	54.00	5.20	144	360	Horizontal
5	17778.9	60.29	0.76	74.00	13.71	100	323	Horizontal
6	17792.5	48.69	0.72	54.00	5.31	113	191	Horizontal

Mode:o; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2531.77	38.78	-25.88	74.00	35.22	189	322	Vertical
2	2534.32	28.39	-25.88	54.00	25.61	151	190	Vertical
3	14032.0	48.86	2.28	54.00	5.14	235	0	Vertical
4	14084.7	59.74	2.34	74.00	14.26	217	342	Vertical
5	17683.7	60.53	1.03	74.00	13.47	197	322	Vertical
6	17786.6	48.34	0.74	54.00	5.66	268	119	Vertical



7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

7.2 Radiated Emissions (30MHz-1GHz) Test Setup

7.3 Radiated Emissions (above 1GHz) Test Setup

7.4 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -