

TEST REPORT

Product : Digital Blood Pressure Monitor
Trade mark : *microlife*
Model/Type reference : BP3SK1-3B, WatchBP Office
Serial Number : N/A
Report Number : EED32M00147801
FCC ID : U7I-BP3SK1-3B-2
Date of Issue : Aug. 10, 2020
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Microlife Corporation
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Prepared by:

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Date:

Aug. 10, 2020



Check No.:3970395814

2 Version

Version No.	Date	Description
00	Aug. 10, 2020	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

Model No.: BP3SK1-3B, WatchBP Office

Only the model BP3SK1-3B was tested, since the Their electrical circuit design, layout, components used, internal wiring, software and outer decoration are identical. Only the model names are different. The tested product has two model names, WatchBP Office is the market model name; BP3SK1-3B is the factory internal model name.

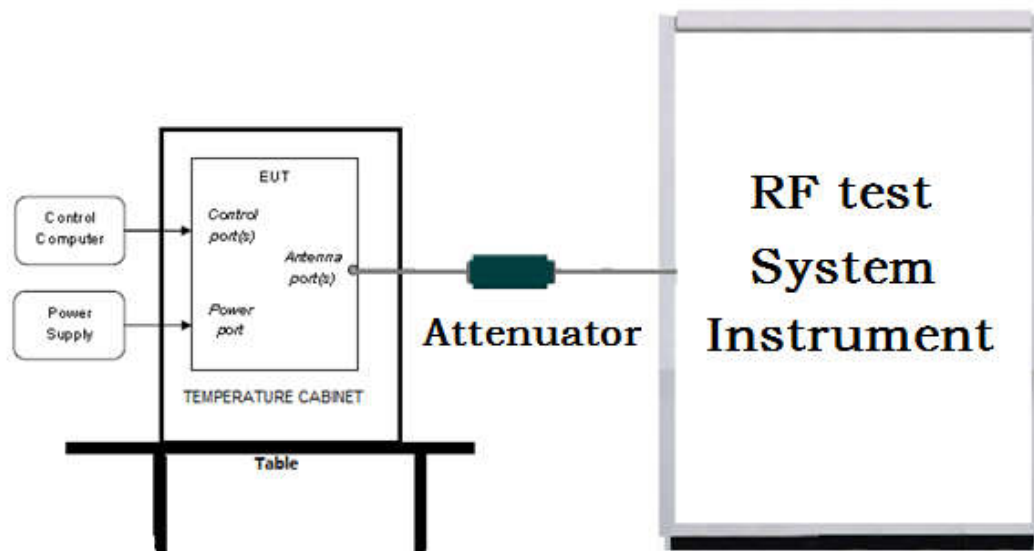
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

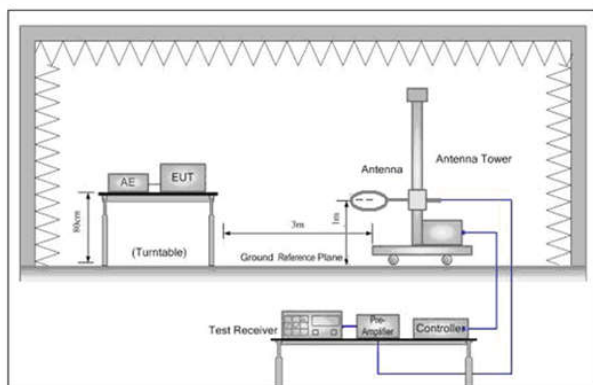


Figure 1. Below 30MHz

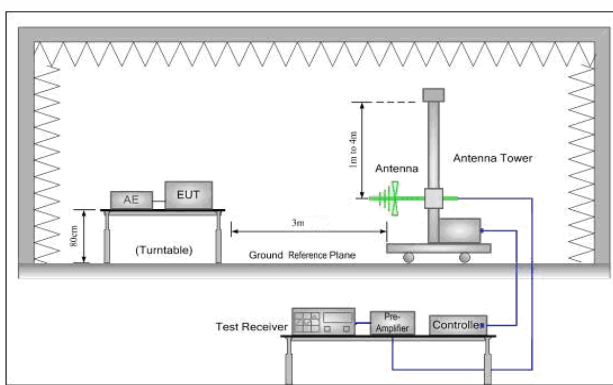


Figure 2. 30MHz to 1GHz

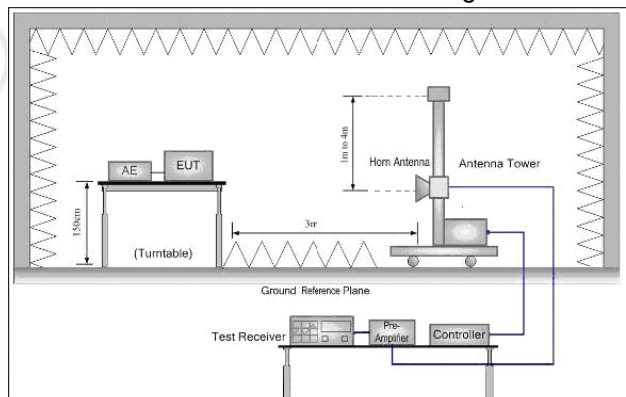
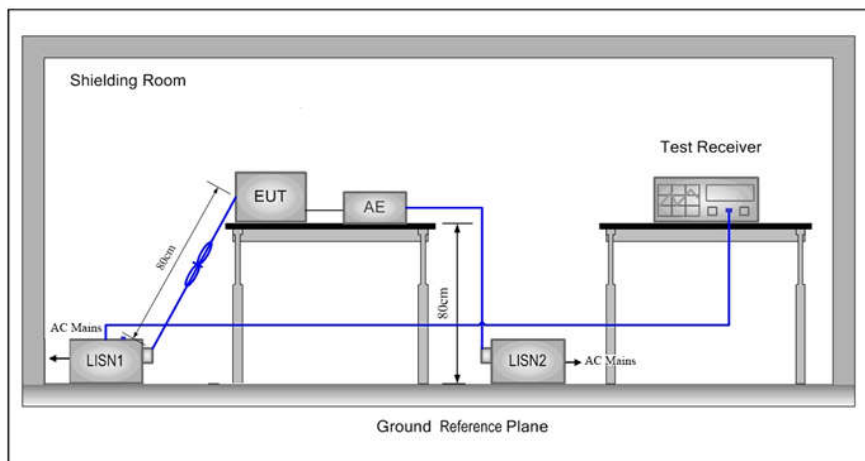


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK	2402MHz ~2480 MHz	Channel 0	Channel 19	Channel 39
		2402MHz	2440MHz	2480MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

6 General Information

6.1 Client Information

Applicant:	Microlife Corporation
Address of Applicant:	9F, 431, RuiGuang Road, NeiHu, Taipei 11492, Taiwan
Manufacturer:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Manufacturer:	No. 138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Factory:	No. 138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

6.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor	
Model No.(EUT):	BP3SK1-3B, WatchBP Office	
Test Model No:	BP3SK1-3B	
Trade mark:	<i>microlife</i>	
EUT Supports Radios application:	4.2 BT Single mode, 2402MHz to 2480MHz	
Power Supply:	Adapter	MODEL No:UE15WCP1-075150SPA PART No:UE140425DGHD03-R INPUT:100-240V~50/60Hz,500mA OUTPUT:7.5V --- 1.5A
	Battery	GPRHC252C236 GP250AAHC4BMXZ 4.8V 2400mAh
Sample Received Date:	May 28, 2020	
Sample tested Date:	May 28, 2020 to Jun. 28, 2020	

6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.2
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Test Power Grade:	Default
Test Software of EUT:	NRF
Antenna Type and Gain:	Type: Ceramic Antenna Gain:0dBi
Test Voltage:	AC120V/60Hz

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

6.4 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name		Manufacturer	Model	S/N serial number	Certification	Supplied by
AE1	Notebook	DELL	DELL 3490	D245DX2	CE & FCC	DELL

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-26-2019	07-25-2020
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	mature	NCD/070/107 11112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	07-26-2019	07-25-2020
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

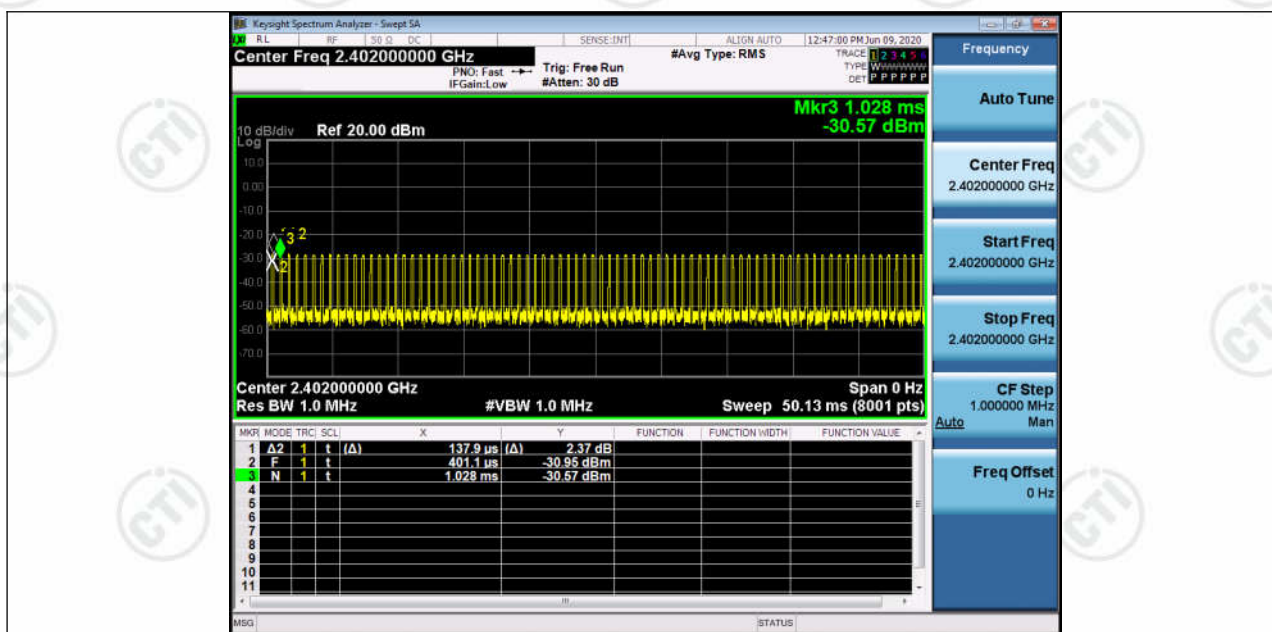
No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

EUT DUTY CYCLE

Duty Cycle			
Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)
BLE	0.1379	0.6269	22.0%



Appendix A): 6dB Occupied Bandwidth

Test Limit

According to §15.247(a)(2) and RSS-247 section 5.2(a)

6 dB Bandwidth :

Limit	Shall be at least 500kHz
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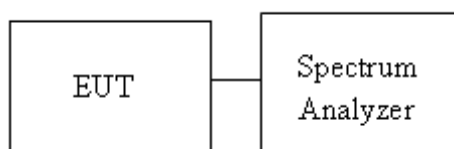
Occupied Bandwidth(99%) : For reporting purposes only.

Test Procedure

Test method Refer as KDB 558074 D01 , section 8.1 and ANSI 63.10:2013 clause 6.9.2 & 6.9.3.

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth .
4. SA set RBW = 30kHz, VBW = 100kHz and Detector = Peak, to measurement 99% Bandwidth.
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

Test Setup



Test Result

6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Verdict
BLE	LCH	0.6904	PASS
BLE	MCH	0.6806	PASS
BLE	HCH	0.6776	PASS

99% OBW

Mode	Channel	99% OBW[MHz]	Verdict
BLE	LCH	1.0875	PASS
BLE	MCH	1.1296	PASS
BLE	HCH	1.1576	PASS

Test Graphs

6dB Bandwidth

Graphs	
LCH	Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Ref Offset 19.6 dB Ref 25.00 dBm Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms Occupied Bandwidth 1.2002 MHz Total Power -1.71 dBm Transmit Freq Error 31.625 kHz OBW Power 99.00 % x dB Bandwidth 690.4 kHz x dB -6.00 dB
MCH	Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.440000000 GHz Ref Offset 19.77 dB Ref 25.00 dBm Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms Occupied Bandwidth 1.2738 MHz Total Power -1.60 dBm Transmit Freq Error 36.414 kHz OBW Power 99.00 % x dB Bandwidth 680.6 kHz x dB -6.00 dB
HCH	Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Ref Offset 19.77 dB Ref 25.00 dBm Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms Occupied Bandwidth 1.3094 MHz Total Power -3.20 dBm Transmit Freq Error 37.960 kHz OBW Power 99.00 % x dB Bandwidth 677.6 kHz x dB -6.00 dB

99% OBW

Graphs	
LCH	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Ref Offset 19.6 dB Ref 25.00 dBm Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.0875 MHz Total Power -2.09 dBm Transmit Freq Error 24.993 kHz OBW Power 99.00 % x dB Bandwidth 421.2 kHz x dB -6.00 dB
MCH	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.440000000 GHz Ref Offset 19.77 dB Ref 25.00 dBm Center 2.44 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.1296 MHz Total Power -2.18 dBm Transmit Freq Error 49.731 kHz OBW Power 99.00 % x dB Bandwidth 417.4 kHz x dB -6.00 dB
HCH	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Ref Offset 19.77 dB Ref 25.00 dBm Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.1576 MHz Total Power -3.10 dBm Transmit Freq Error 59.762 kHz OBW Power 99.00 % x dB Bandwidth 371.3 kHz x dB -6.00 dB

Appendix B): Conducted Peak Output Power

Test Limit

According to §15.247(b) and RSS-247 section 5.4(d)

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi [Limit = 30 – (DG – 6)] ☐ Point-to-point operation
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Test Procedure

Test method Refer as KDB 558074 D01 , section 9.1.2.

1. The EUT RF output connected to spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT.
3. Spectrum analyzer settings are as follows:
 - a) Set the $RBW \geq DTS$ bandwidth.
 - b) Set $VBW \geq [3 \times RBW]$.
 - c) Set $span \geq [3 \times RBW]$.
 - d) Sweep time = auto couple.
 - e) Detector = peak.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use peak marker function to determine the peak amplitude level
4. Measure and record the result in the test report.

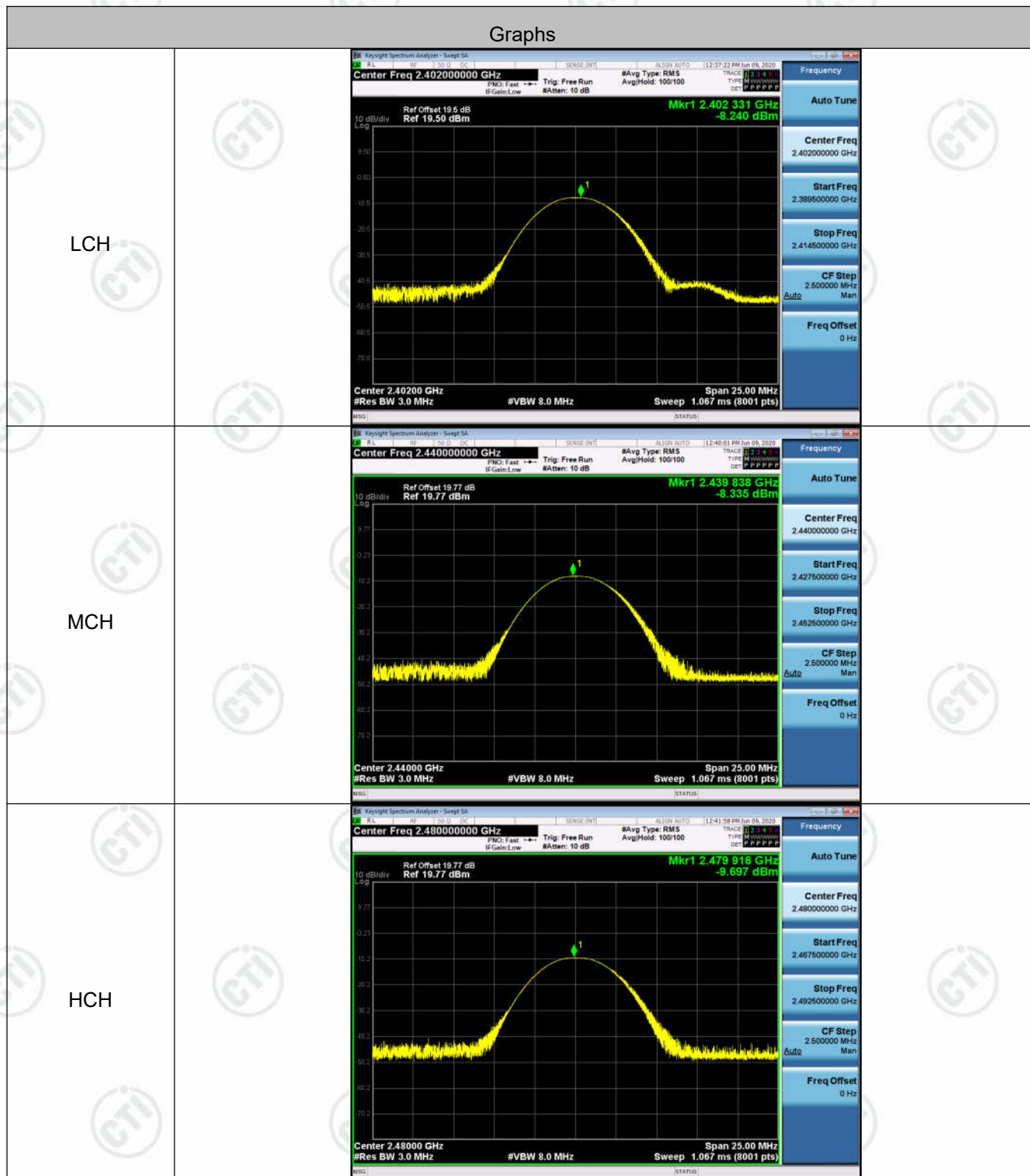
Test Setup



Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-8.24	PASS
BLE	MCH	-8.335	PASS
BLE	HCH	-9.697	PASS

Test Graphs



Appendix C): Band-edge for RF Conducted Emissions

Test Limit

According to §15.247(d) and RSS-247 section 5.5

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Test Procedure

Test method Refer as KDB 558074 D01 , Section 11.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Setup



Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-8.522	-60.197	-28.52	PASS
BLE	HCH	-9.982	-55.583	-29.98	PASS

Test Graphs



Appendix D): RF Conducted Spurious Emissions

Test Limit

According to §15.247(d) and RSS-247 section 5.5

In any 100 kHz bandwidth outside the authorized frequency band,

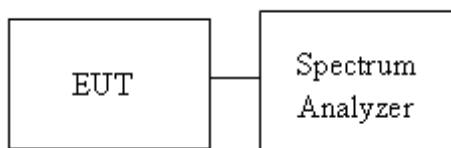
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Test Procedure

Test method Refer as KDB 558074 D01, Section 11.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

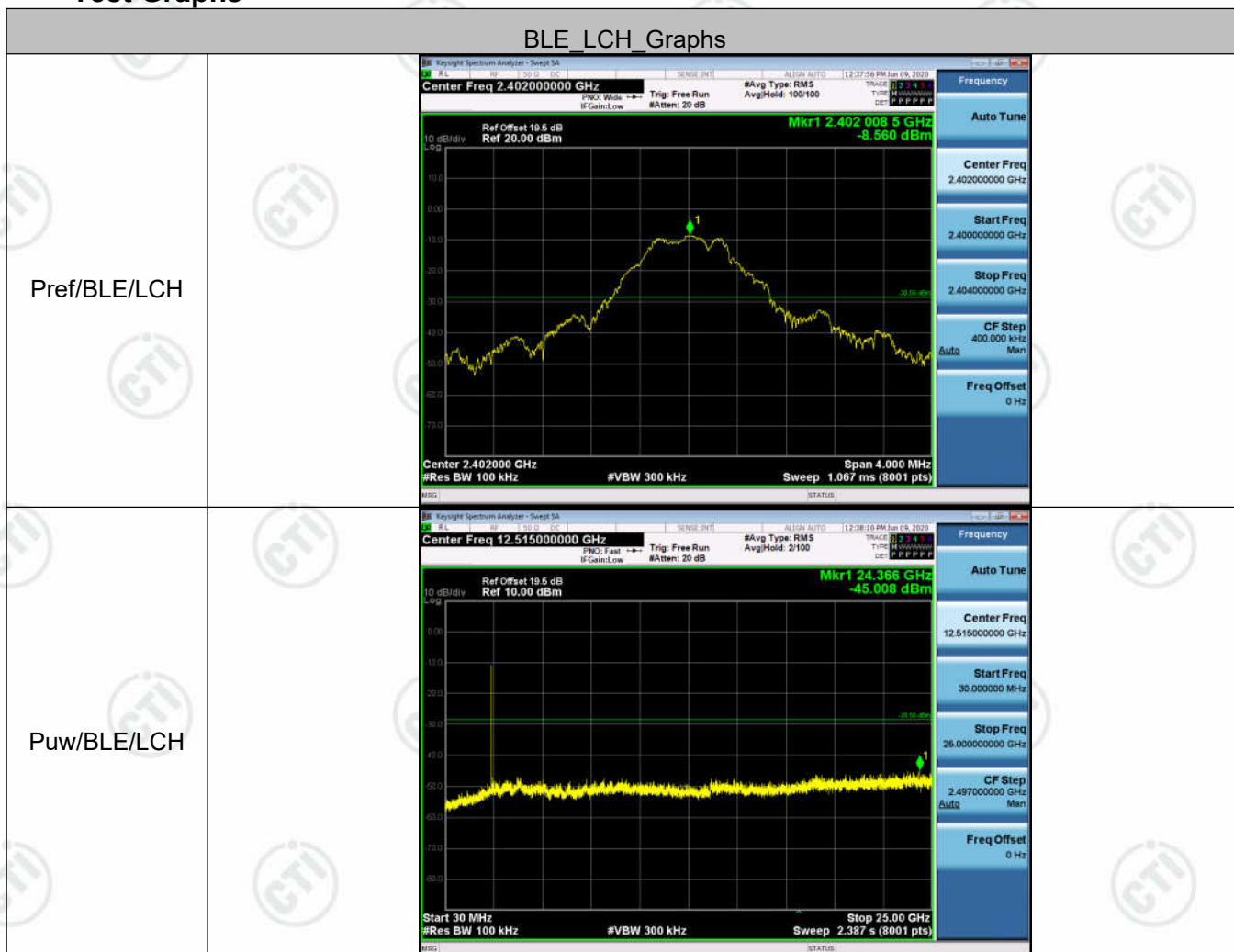
Test Setup

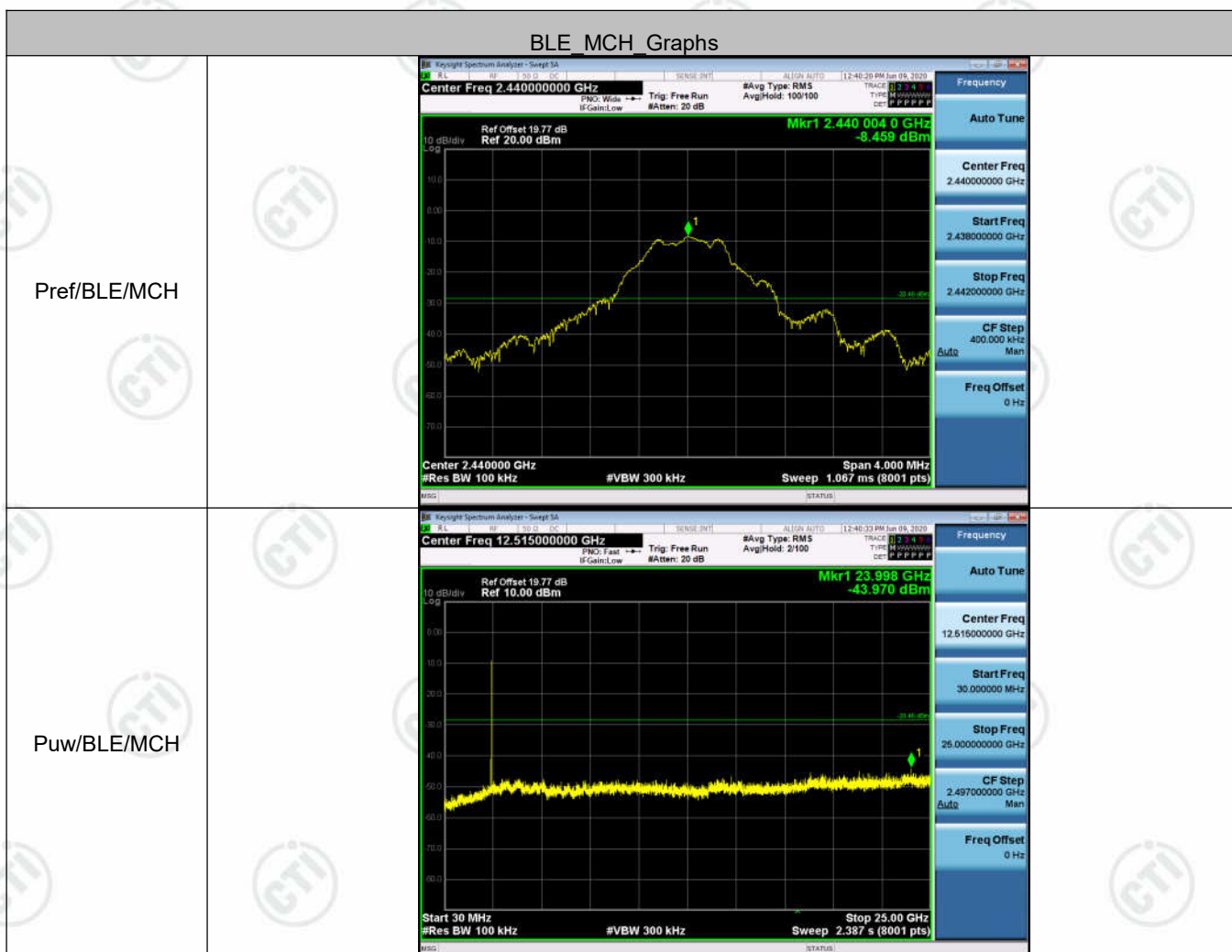


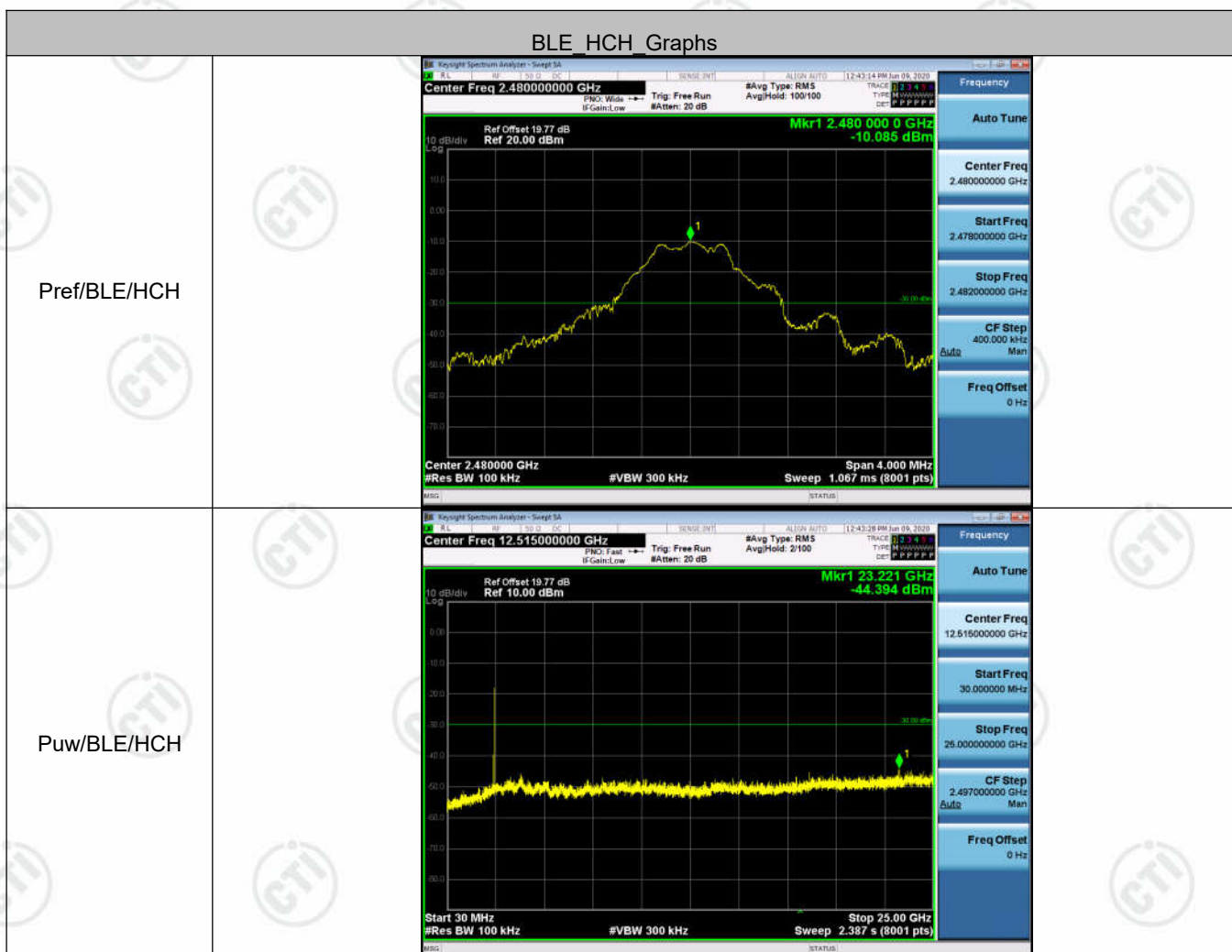
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-8.56	<Limit	PASS
BLE	MCH	-8.459	<Limit	PASS
BLE	HCH	-10.085	<Limit	PASS

Test Graphs







Appendix E): Power Spectral Density

Test Limit

According to §15.247(e) and RSS-247 section 5.2(b)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Limit	☒ Antenna not exceed 6 dBi : 8dBm ☐ Antenna with DG greater than 6 dBi [Limit = 8 – (DG – 6)] ☐ Point-to-point operation :
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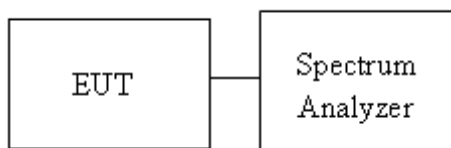
Test Procedure

Test method Refer as KDB 558074 D01 , Section 10.2

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
5. Mark the maximum level.

Measure and record the result of power spectral density. in the test report.

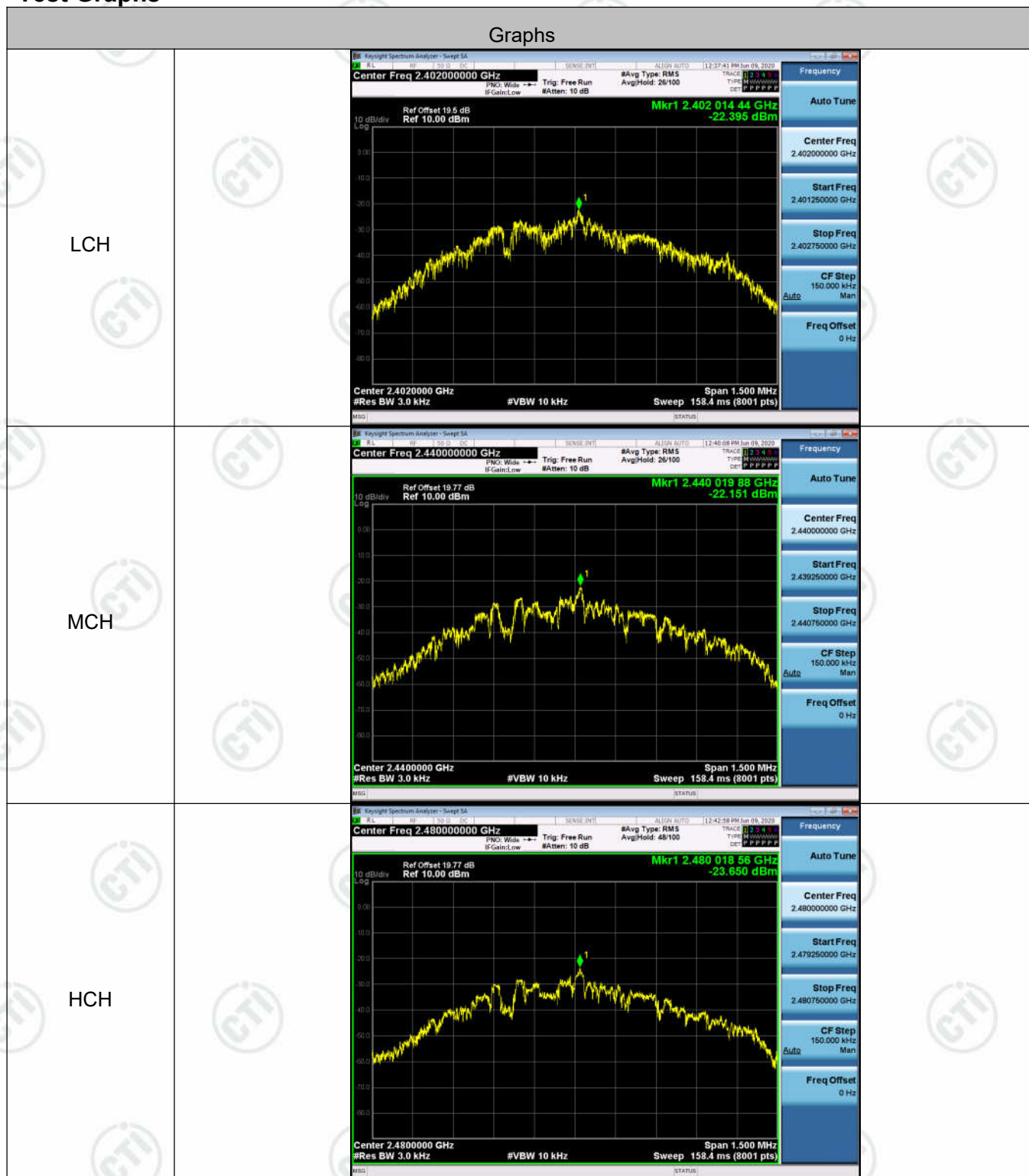
Test Setup



Result Table

Mode	Channel	PSD [dBm]	Verdict
BLE	LCH	-22.395	PASS
BLE	MCH	-22.151	PASS
BLE	HCH	-23.650	PASS

Test Graphs



Appendix F): Antenna Requirement

15.203 requirement:

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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



Appendix G): AC Power Line Conducted Emission

Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

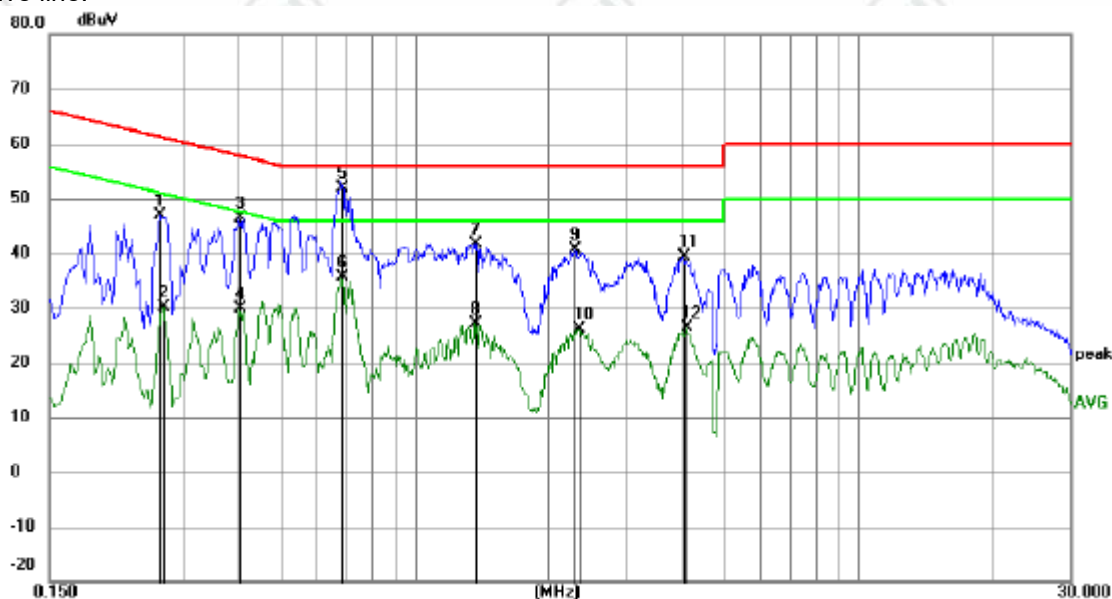
Product : Digital Blood Pressure Monitor

Model/Type reference : BP3SK1-3B

Temperature : 24℃

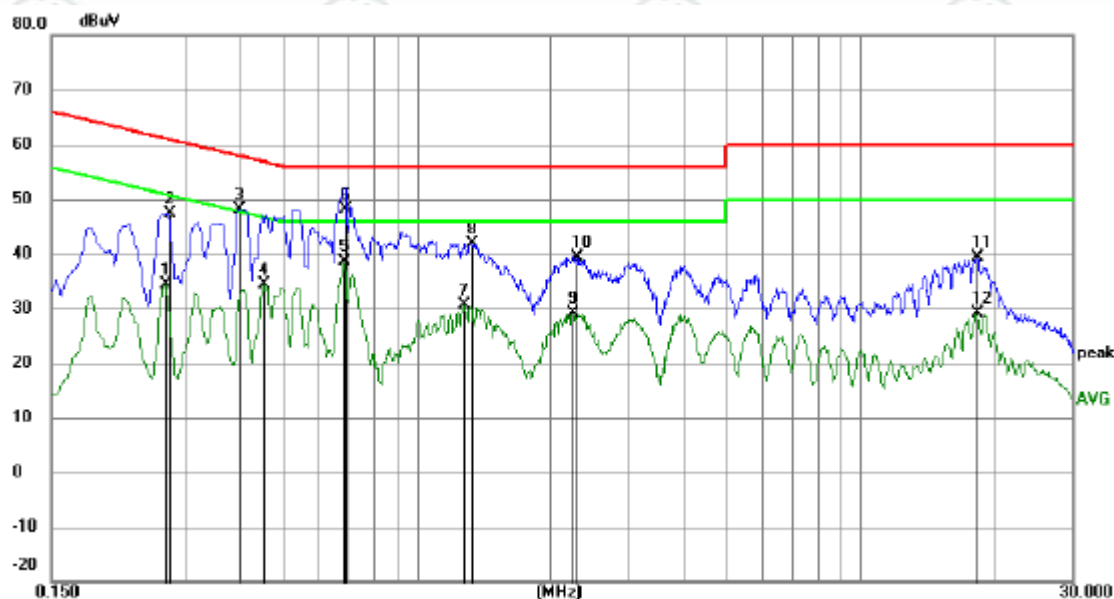
Humidity : 52%

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2670	36.78	10.01	46.79	61.21	-14.42	QP	
2		0.2714	20.08	10.02	30.10	51.07	-20.97	AVG	
3		0.4020	36.55	9.89	46.44	57.81	-11.37	QP	
4		0.4020	19.98	9.89	29.87	47.81	-17.94	AVG	
5	*	0.6855	41.99	9.81	51.80	56.00	-4.20	QP	
6		0.6855	25.77	9.81	35.58	46.00	-10.42	AVG	
7		1.3695	31.95	9.76	41.71	56.00	-14.29	QP	
8		1.3695	17.32	9.76	27.08	46.00	-18.92	AVG	
9		2.2875	30.83	9.79	40.62	56.00	-15.38	QP	
10		2.3370	16.35	9.79	26.14	46.00	-19.86	AVG	
11		4.0425	29.69	9.78	39.47	56.00	-16.53	QP	
12		4.0920	16.68	9.78	26.46	46.00	-19.54	AVG	

Neutral line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2714	24.39	10.02	34.41	51.07	-16.66	AVG	
2		0.2760	37.23	10.04	47.27	60.94	-13.67	peak	
3		0.3975	38.25	9.89	48.14	57.91	-9.77	peak	
4		0.4515	24.31	9.97	34.28	46.85	-12.57	AVG	
5	*	0.6855	28.79	9.81	38.60	46.00	-7.40	AVG	
6		0.6900	38.40	9.80	48.20	56.00	-7.80	QP	
7		1.2795	20.85	9.75	30.60	46.00	-15.40	AVG	
8		1.3290	32.15	9.76	41.91	56.00	-14.09	peak	
9		2.2380	19.28	9.79	29.07	46.00	-16.93	AVG	
10		2.2920	29.50	9.79	39.29	56.00	-16.71	peak	
11		18.2490	29.53	9.84	39.37	60.00	-20.63	peak	
12		18.2490	19.37	9.84	29.21	50.00	-20.79	AVG	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

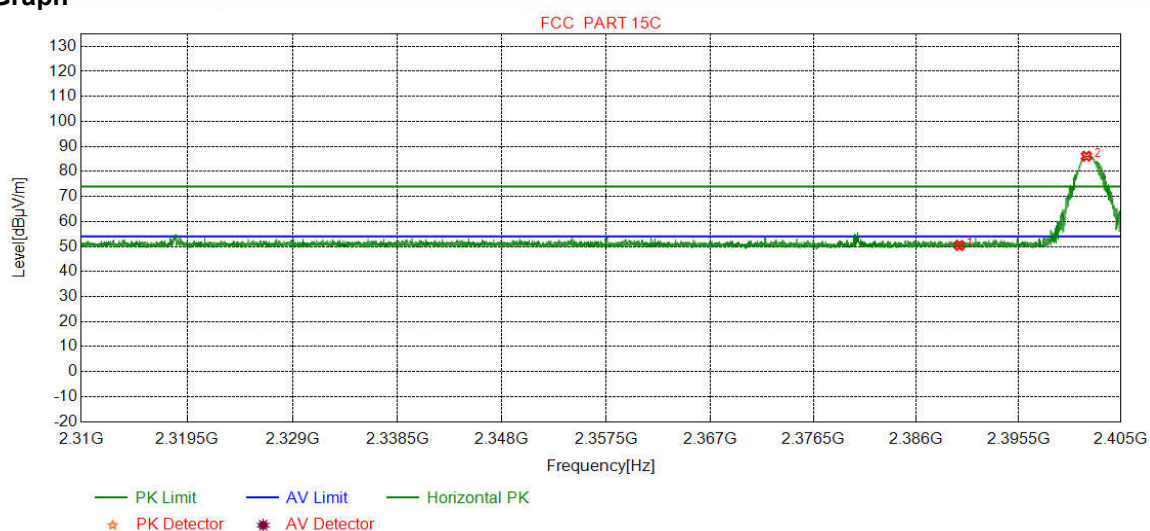
Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: Test method Refer as KDB 558074 D01 , Section 12.1 - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter). . Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dBμV/m @3m)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

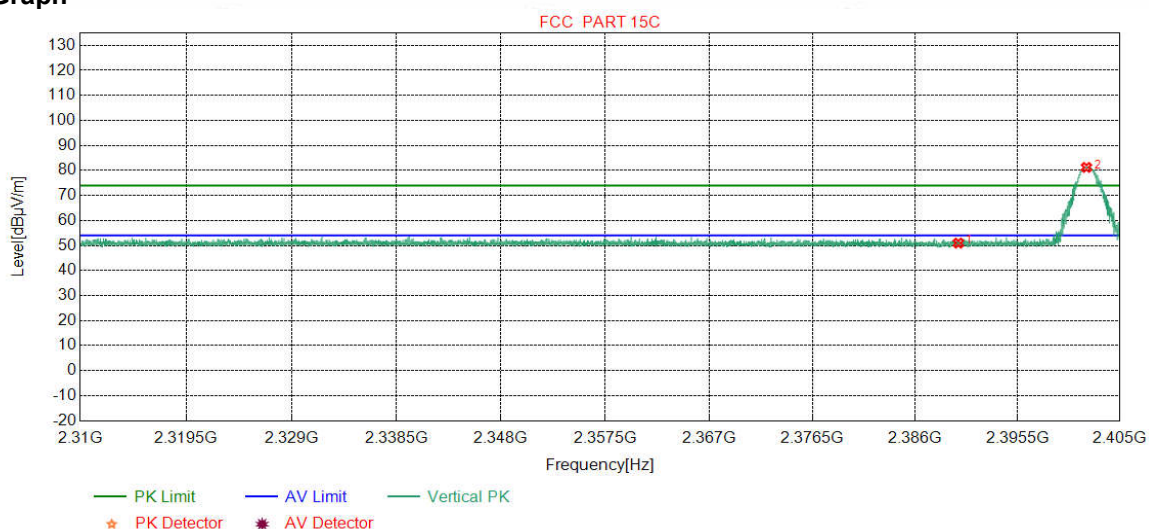
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	47.91	50.41	74.00	23.59	Pass	Horizontal
2	2401.8015	32.26	13.31	-43.12	83.64	86.09	74.00	-12.09	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

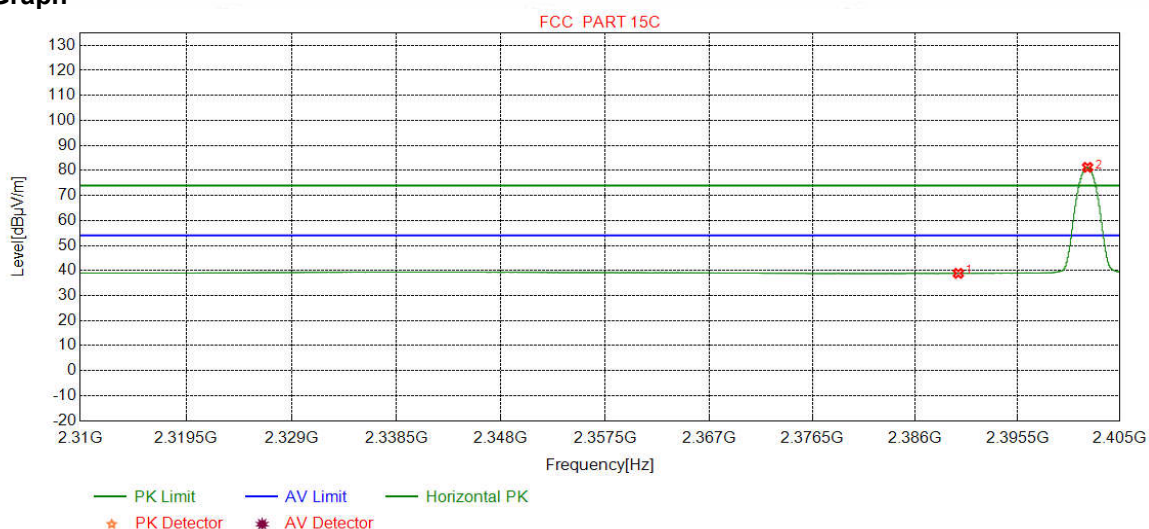
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.45	50.95	74.00	23.05	Pass	Vertical
2	2401.9028	32.26	13.31	-43.12	78.76	81.21	74.00	-7.21	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

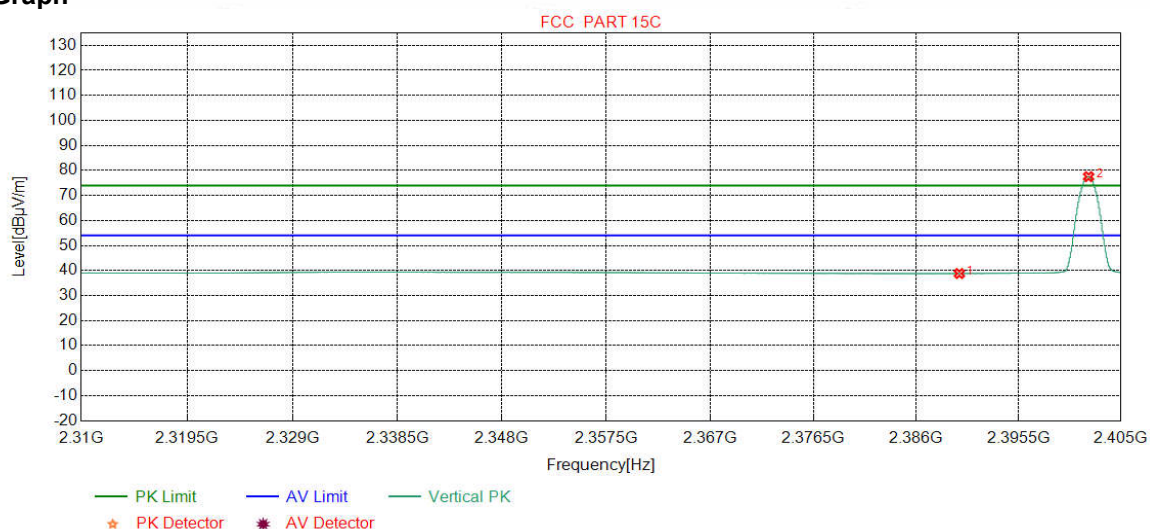
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	36.38	38.88	54.00	15.12	Pass	Horizontal
2	2402.0041	32.26	13.31	-43.12	78.79	81.24	54.00	-27.24	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

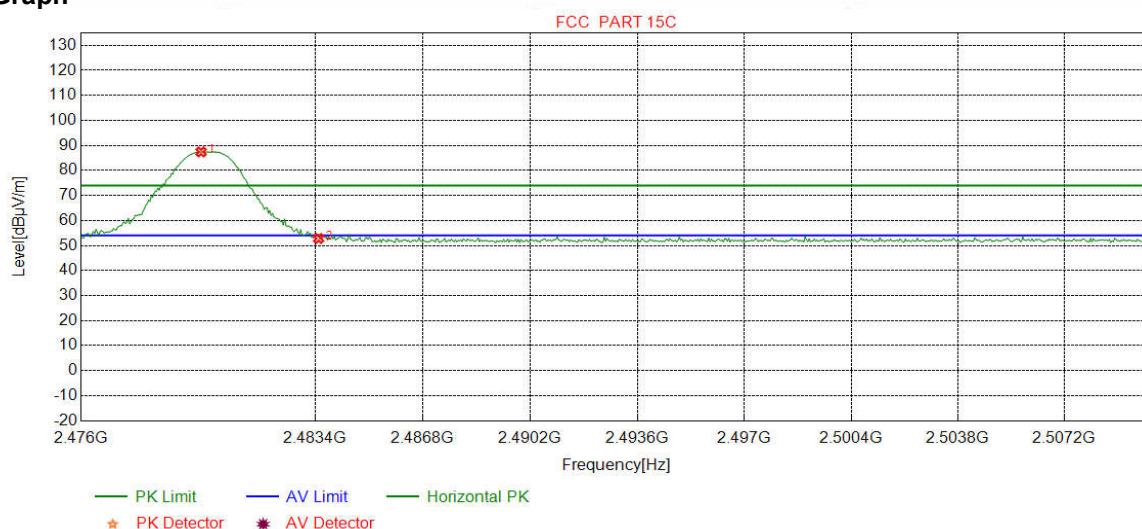
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	36.29	38.79	54.00	15.21	Pass	Vertical
2	2402.0041	32.26	13.31	-43.12	75.08	77.53	54.00	-23.53	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

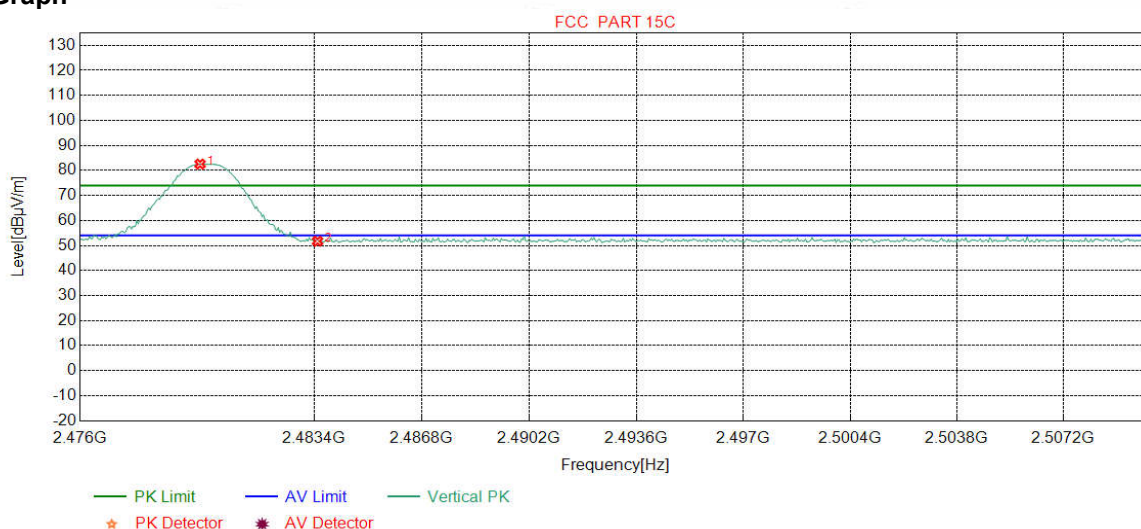
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2479.7872	32.37	13.39	-43.10	84.75	87.41	74.00	-13.41	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	50.16	52.81	74.00	21.19	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

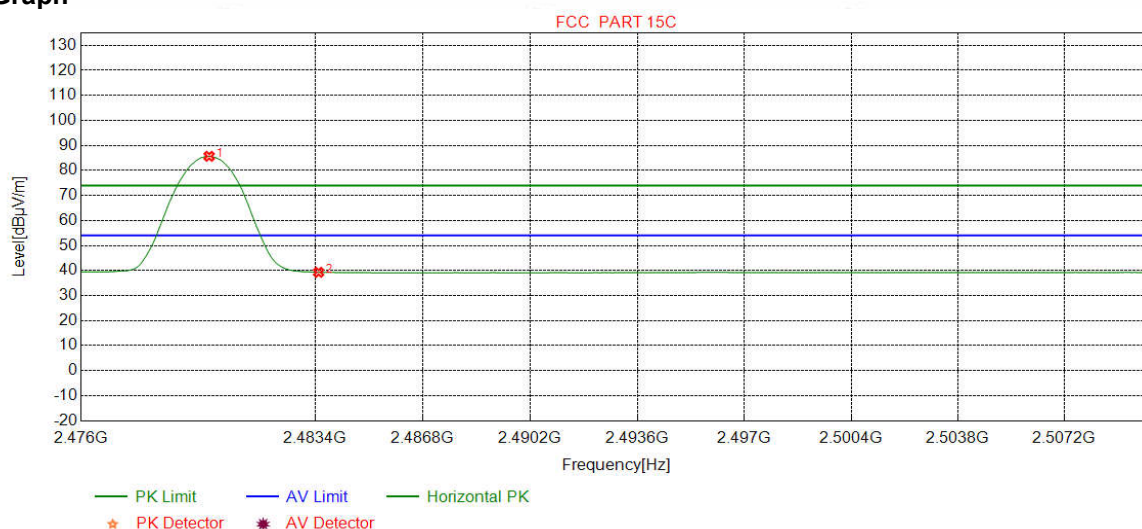
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2479.7872	32.37	13.39	-43.10	79.90	82.56	74.00	-8.56	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.07	51.72	74.00	22.28	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

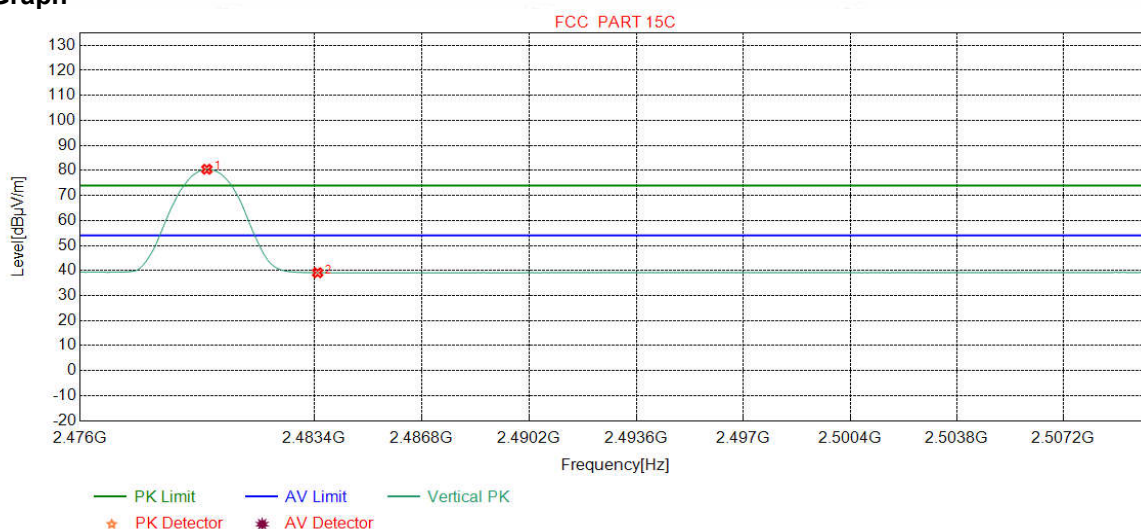
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2480.0426	32.37	13.39	-43.10	83.00	85.66	54.00	-31.66	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	36.64	39.29	54.00	14.71	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2480.0000	32.37	13.39	-43.10	77.82	80.48	54.00	-26.48	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	36.48	39.13	54.00	14.87	Pass	Vertical

Note:

1) Through Pre-scan Non-hopping transmitting mode and charge+transmitter mode with all kind of data type, find the DH5 of data type is the worse case of GFSK modulation type in charge + transmitter mode.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Appendix I) Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Test Procedure:					
Below 1GHz test procedure as below:					
Test method Refer as KDB 558074 D01 , Section 12.1					
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.					
b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.					
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.					
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.					
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Above 1GHz test procedure as below:					
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).					
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.					
j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

Mode:			BLE GFSK Transmitting					Channel:		2440	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	36.5967	11.21	0.67	-31.38	43.00	23.50	40.00	16.50	Pass	H	PK
2	101.1081	10.99	1.18	-31.92	42.37	22.62	43.50	20.88	Pass	H	PK
3	240.0260	11.94	1.84	-31.90	40.36	22.24	46.00	23.76	Pass	H	PK
4	360.0270	14.52	2.27	-31.84	39.30	24.25	46.00	21.75	Pass	H	PK
5	649.9890	19.40	3.10	-32.07	43.13	33.56	46.00	12.44	Pass	H	PK
6	844.9785	21.44	3.50	-31.82	37.14	30.26	46.00	15.74	Pass	H	PK
7	58.2298	11.88	0.88	-31.85	40.98	21.89	40.00	18.11	Pass	V	PK
8	150.0010	7.55	1.45	-32.01	46.35	23.34	43.50	20.16	Pass	V	PK
9	304.0524	13.29	2.07	-31.60	40.33	24.09	46.00	21.91	Pass	V	PK
10	433.2693	15.93	2.46	-31.84	37.91	24.46	46.00	21.54	Pass	V	PK
11	649.9890	19.40	3.10	-32.07	43.94	34.37	46.00	11.63	Pass	V	PK
12	844.9785	21.44	3.50	-31.82	37.30	30.42	46.00	15.58	Pass	V	PK

Transmitter Emission above 1GHz

Mode:			BLE GFSK Transmitting					Channel:		2402	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2038.9039	31.75	3.54	-43.19	51.08	43.18	74.00	30.82	Pass	H	PK
2	2819.1819	32.91	4.24	-43.10	51.41	45.46	74.00	28.54	Pass	H	PK
3	4803.1202	34.50	4.55	-42.80	60.29	56.54	74.00	17.46	Pass	H	PK
4	7206.0000	36.31	5.81	-42.16	49.38	49.34	74.00	24.66	Pass	H	PK
5	9608.0000	37.64	6.63	-42.10	46.57	48.74	74.00	25.26	Pass	H	PK
6	12010.0000	39.31	7.60	-41.90	47.18	52.19	74.00	21.81	Pass	H	PK
7	4803.1200	34.50	4.55	-42.80	47.66	43.91	54.00	10.09	Pass	H	AV
8	1843.4843	30.67	3.37	-42.82	50.60	41.82	74.00	32.18	Pass	V	PK
9	3029.0019	33.21	4.87	-43.10	50.70	45.68	74.00	28.32	Pass	V	PK
10	4804.1203	34.50	4.55	-42.80	60.96	57.21	74.00	16.79	Pass	V	PK
11	7206.0000	36.31	5.81	-42.16	48.57	48.53	74.00	25.47	Pass	V	PK
12	9608.0000	37.64	6.63	-42.10	47.86	50.03	74.00	23.97	Pass	V	PK
13	12010.0000	39.31	7.60	-41.90	47.05	52.06	74.00	21.94	Pass	V	PK
14	4804.1197	34.50	4.55	-42.80	57.27	53.52	54.00	0.48	Pass	V	AV

Mode:			BLE GFSK Transmitting					Channel:		2440	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1972.0972	31.52	3.44	-43.13	51.61	43.44	74.00	30.56	Pass	H	PK
2	3220.0147	33.29	4.57	-43.10	50.38	45.14	74.00	28.86	Pass	H	PK
3	4880.1253	34.50	4.80	-42.80	58.77	55.27	74.00	18.73	Pass	H	PK
4	7320.0000	36.42	5.85	-42.14	47.82	47.95	74.00	26.05	Pass	H	PK
5	9760.0000	37.70	6.73	-42.10	47.47	49.80	74.00	24.20	Pass	H	PK
6	12200.0000	39.42	7.67	-41.90	46.12	51.31	74.00	22.69	Pass	H	PK
7	4880.1255	34.50	4.80	-42.80	54.86	51.36	54.00	2.64	Pass	H	AV
8	1750.8751	30.06	3.23	-42.69	50.83	41.43	74.00	32.57	Pass	V	PK
9	3064.0043	33.23	4.80	-43.11	50.69	45.61	74.00	28.39	Pass	V	PK
10	4880.1253	34.50	4.80	-42.80	60.14	56.64	74.00	17.36	Pass	V	PK
11	7320.0000	36.42	5.85	-42.14	47.36	47.49	74.00	26.51	Pass	V	PK
12	9760.0000	37.70	6.73	-42.10	47.40	49.73	74.00	24.27	Pass	V	PK
13	12200.0000	39.42	7.67	-41.90	46.94	52.13	74.00	21.87	Pass	V	PK
14	4880.1247	34.50	4.80	-42.80	56.25	52.75	54.00	1.25	Pass	V	AV

Mode:			BLE GFSK Transmitting					Channel:		2480	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1463.8464	28.36	2.96	-42.94	52.72	41.10	74.00	32.90	Pass	H	PK
2	3790.0527	33.63	4.37	-43.04	50.14	45.10	74.00	28.90	Pass	H	PK
3	4960.0000	34.50	4.82	-42.80	54.25	50.77	74.00	23.23	Pass	H	PK
4	7440.0000	36.54	5.85	-42.11	50.26	50.54	74.00	23.46	Pass	H	PK
5	9920.0000	37.77	6.79	-42.10	48.90	51.36	74.00	22.64	Pass	H	PK
6	12400.0000	39.54	7.86	-41.90	47.57	53.07	74.00	20.93	Pass	H	PK
7	2002.7003	31.70	3.47	-43.19	51.55	43.53	74.00	30.47	Pass	V	PK
8	3957.0638	33.77	4.34	-43.01	50.09	45.19	74.00	28.81	Pass	V	PK
9	4960.0000	34.50	4.82	-42.80	55.34	51.86	74.00	22.14	Pass	V	PK
10	7440.0000	36.54	5.85	-42.11	48.53	48.81	74.00	25.19	Pass	V	PK
11	9920.0000	37.77	6.79	-42.10	48.10	50.56	74.00	23.44	Pass	V	PK
12	12400.0000	39.54	7.86	-41.90	46.71	52.21	74.00	21.79	Pass	V	PK

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.