

TEST REPORT

Product : Digital Blood Pressure Monitor
Trade mark : **microlife**
Model/Type reference : BP3SK1-3B, WatchBP Office
Serial Number : N/A
Report Number : EED32L00199701
FCC ID : U7I-BP3SK1-3B
Date of Issue : Aug. 21, 2019
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

Microlife Corporation
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Prepared by:

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Date:

Aug. 21, 2019

Check No.:3970397532



2 Version

Version No.	Date	Description
00	Aug. 21, 2019	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.

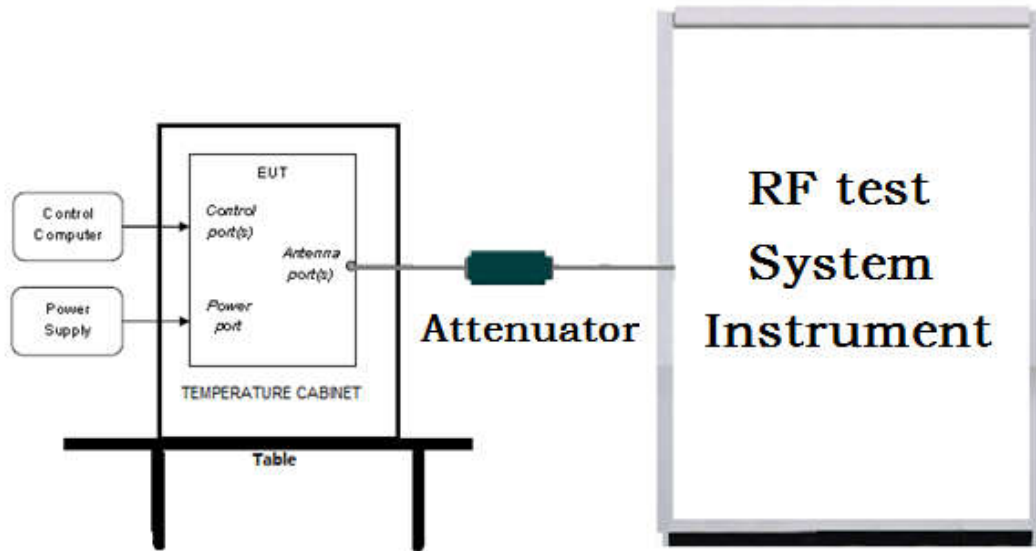
4 Content

1 COVER PAGE	1
2 VERSION	2
3 TEST SUMMARY	3
4 CONTENT	4
5 TEST REQUIREMENT	5
5.1 TEST SETUP.....	5
5.1.1 For Conducted test setup.....	5
5.1.2 For Radiated Emissions test setup.....	5
5.1.3 For Conducted Emissions test setup.....	6
5.2 TEST ENVIRONMENT.....	6
5.3 TEST CONDITION.....	6
6 GENERAL INFORMATION	7
6.1 CLIENT INFORMATION.....	7
6.2 GENERAL DESCRIPTION OF EUT.....	7
6.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	7
6.4 DESCRIPTION OF SUPPORT UNITS.....	8
6.5 TEST LOCATION.....	8
6.6 DEVIATION FROM STANDARDS.....	8
6.7 ABNORMALITIES FROM STANDARD CONDITIONS.....	8
6.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	8
6.9 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2).....	9
7 EQUIPMENT LIST	10
8 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	12
Appendix A): 6dB Occupied Bandwidth.....	13
Appendix B): Conducted Peak Output Power.....	15
Appendix C): Band-edge for RF Conducted Emissions.....	17
Appendix D): RF Conducted Spurious Emissions.....	19
Appendix E): Power Spectral Density.....	23
Appendix F): Antenna Requirement.....	25
Appendix G): AC Power Line Conducted Emission.....	26
Appendix H): Restricted bands around fundamental frequency (Radiated).....	29
Appendix I) Radiated Spurious Emissions.....	38
PHOTOGRAPHS OF TEST SETUP	43
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	45

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:

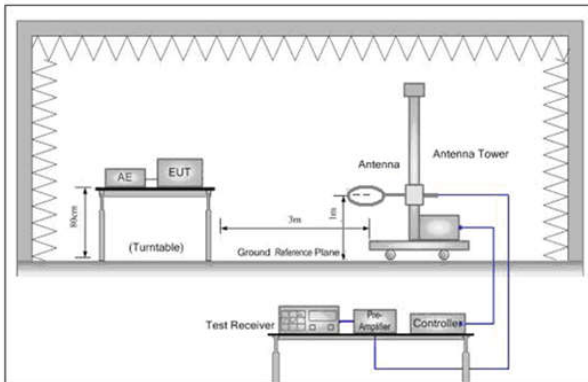


Figure 1. Below 30MHz

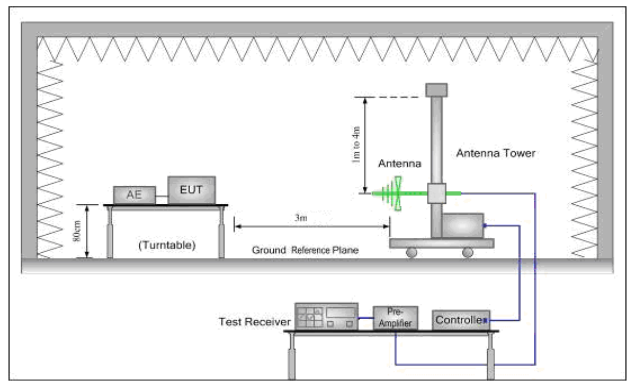


Figure 2. 30MHz to 1GHz

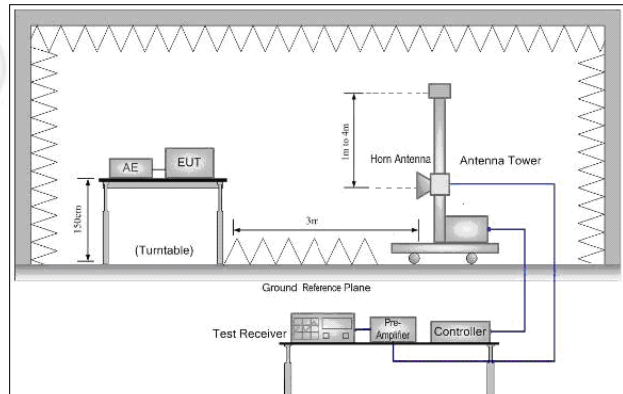
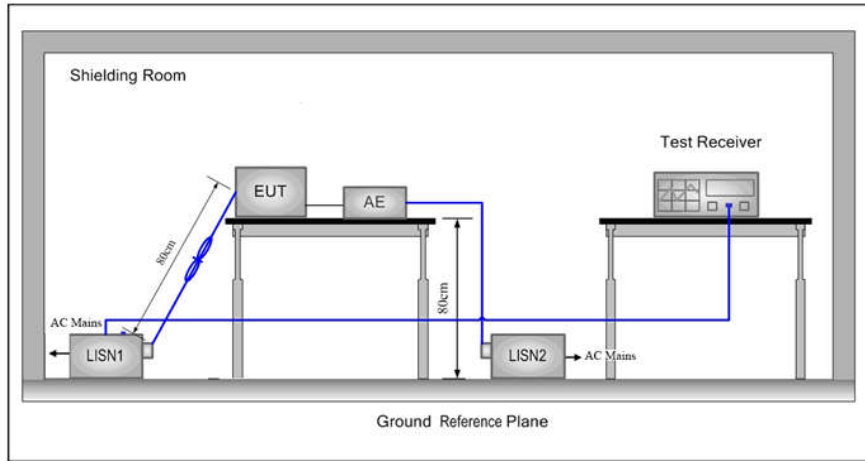


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	57 % 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 1	Channel 20	Channel 40
		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	
Trade mark:	microlife	
EUT Supports Radios application:	BT4.2 Single mode:2402-2480MHz	
Power Supply:	AC Adapter	SWITCHING POWER ADAPTOR MODEL NO: UES18LCP-075200SPA INPUT: 100-240V~50/60Hz, 500mA OUTPUT: 7.5V=2.0A
	Battery	NIMH Battery: GPRHC252C236 GP250AAHC4BMXZ Voltage :4.8V Capacity: 2400mAh
Sample Received Date:	Jul. 25, 2019	
Sample tested Date:	Jul. 25, 2019 to Aug. 20,2019	

6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.2
Modulation Technique:	DTS
Modulation Type:	GFSK
Number of Channel:	40
Test Power Grade:	Default (manufacturer declare)
Test Software of EUT:	N/A
Antenna Type and Gain:	Type: Internal Antenna Gain:0 dBi
Test Voltage:	AC 120V,60Hz

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

6.4 Description of Support Units

The EUT has been tested independently

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)
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-28-2020
Attenuator	HuaXiang	SHX370	15040701	03-01-2019	02-28-2020
Signal Generator	Keysight	N5181A	MY46240094	03-01-2019	02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	---	01-09-2019	01-08-2020
Communication test set	R&S	CMW500	107929	04-28-2019	04-26-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-28-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JSTS1120-2	---	03-01-2019	02-28-2020
high-low temperature test chamber	DongGuangQinZhuo	LK-80GA	QQ20150611 879	03-01-2019	02-28-2020

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	05-22-2020
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-24-2020
Microwave Preamplifier	Agilent	8449B	3008A02425	07-12-2019	07-10-2020
Microwave Preamplifier	Tonscend	EMC051845 SE	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6042	07-26-2019	07-24-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-25-2021
Spectrum Analyzer	R&S	FSP40	100416	04-28-2019	04-26-2020
Receiver	R&S	ESCI	100435	05-20-2019	05-18-2020
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/10711112	---	01-09-2019	01-08-2020
Signal Generator	Agilent	E4438C	MY45095744	03-01-2019	02-28-2020
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Temperature/Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2020
Cable line	Fulai(7M)	SF106	5219/6A	01-09-2019	01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-09-2019	01-08-2020
High-pass filter	Sinoscite	FL3CX03WG18NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA09CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03CL12-0394-001	---	01-09-2019	01-08-2020

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)

Appendix A): 6dB Occupied Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	99% OBW[MHz]	Verdict
BLE	LCH	0.5165	1.7235	PASS
BLE	MCH	0.5292	1.7566	PASS
BLE	HCH	0.5418	1.3183	PASS

Test Graphs

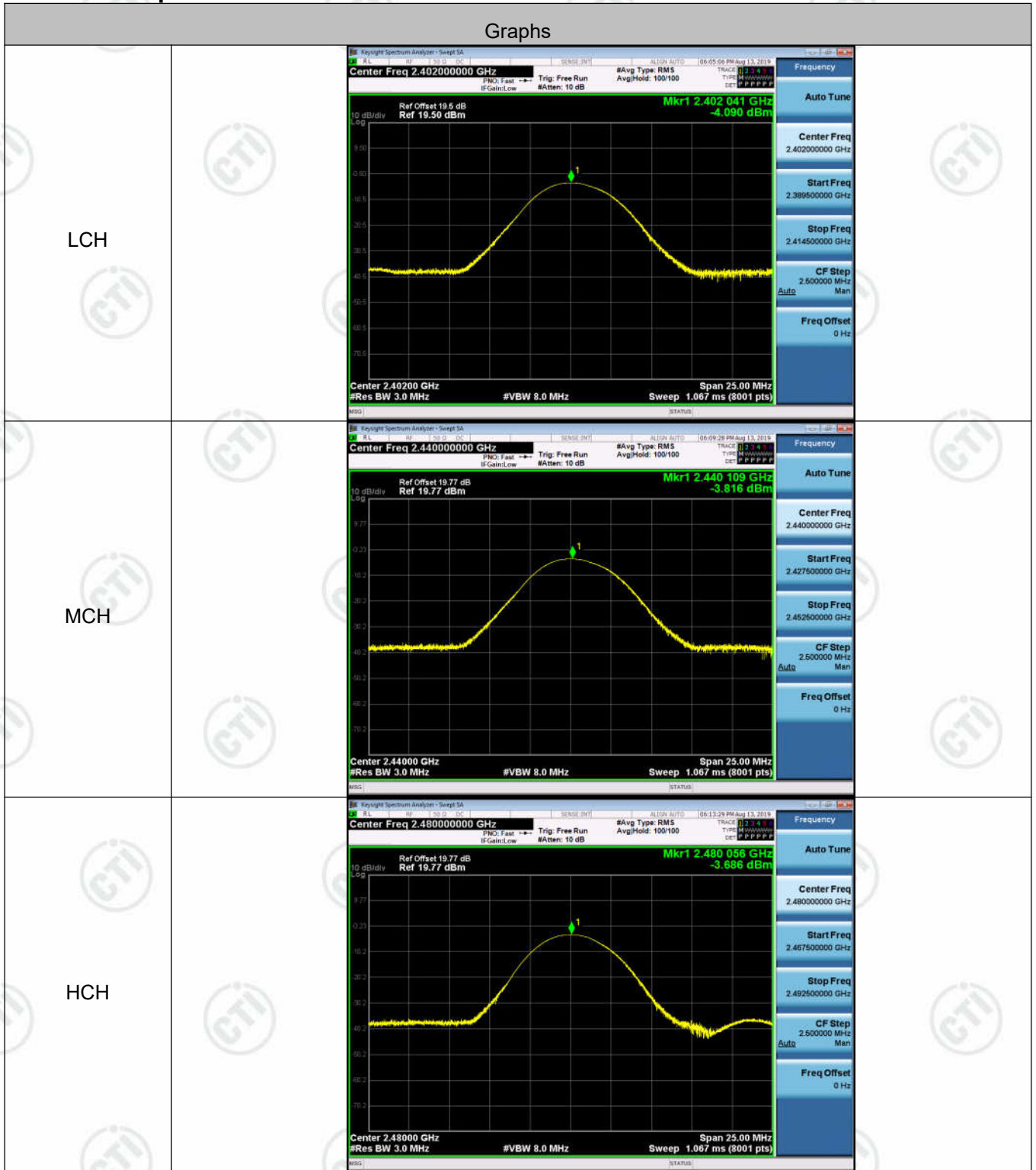
Graphs	
LCH	<p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Frequency</p> <p>Ref Offset 19.6 dB Ref 10.00 dBm</p> <p>10 dB/div</p> <p>Center 2.402 GHz Span 3 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 1.7235 MHz Total Power 2.25 dBm</p> <p>Transmit Freq Error 72.980 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 516.5 kHz x dB -6.00 dB</p> <p>CF Step 300.000 kHz Freq Offset 0 Hz</p>
MCH	<p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None Frequency</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>10 dB/div</p> <p>Center 2.44 GHz Span 3 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 1.7566 MHz Total Power 2.55 dBm</p> <p>Transmit Freq Error 70.109 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 529.2 kHz x dB -6.00 dB</p> <p>CF Step 300.000 kHz Freq Offset 0 Hz</p>
HCH	<p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Radio Std: None Frequency</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>10 dB/div</p> <p>Center 2.48 GHz Span 3 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 1.3183 MHz Total Power 2.52 dBm</p> <p>Transmit Freq Error 39.919 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 541.8 kHz x dB -6.00 dB</p> <p>CF Step 300.000 kHz Freq Offset 0 Hz</p>

Appendix B): Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-4.09	PASS
BLE	MCH	-3.816	PASS
BLE	HCH	-3.686	PASS

Test Graphs



Appendix C): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-4.269	-44.406	-24.27	PASS
BLE	HCH	-3.692	-42.296	-23.69	PASS

Test Graphs

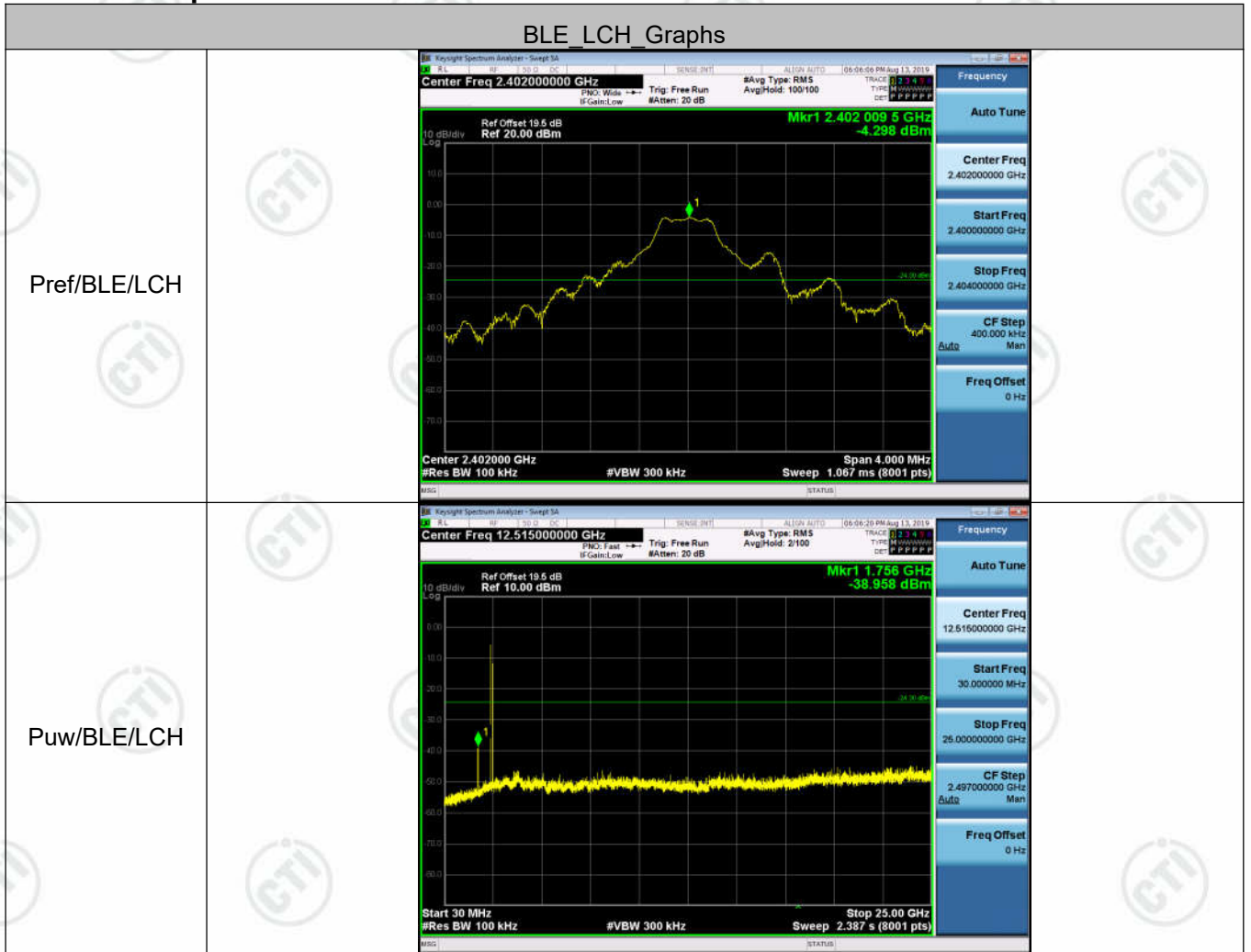


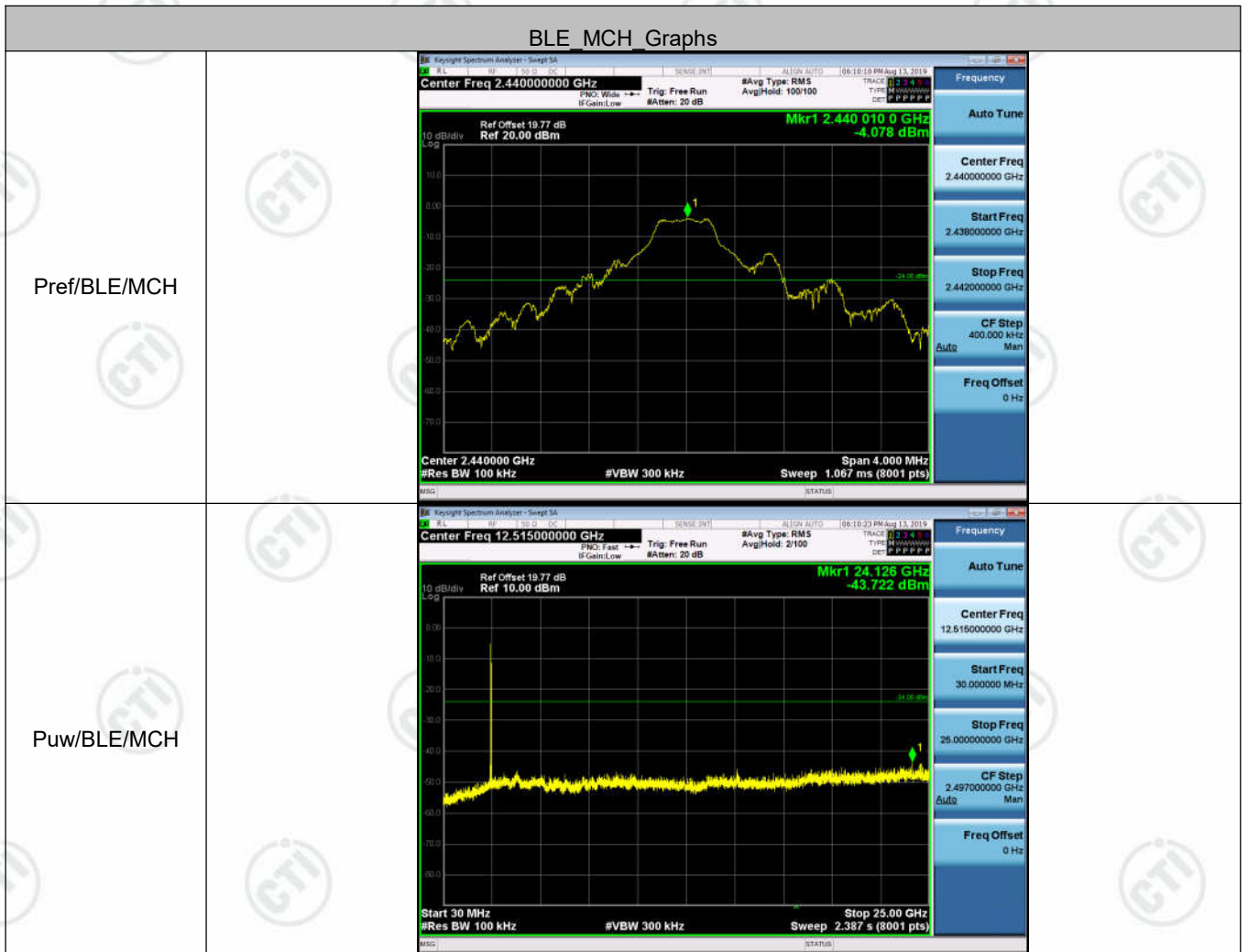
Appendix D): RF Conducted Spurious Emissions

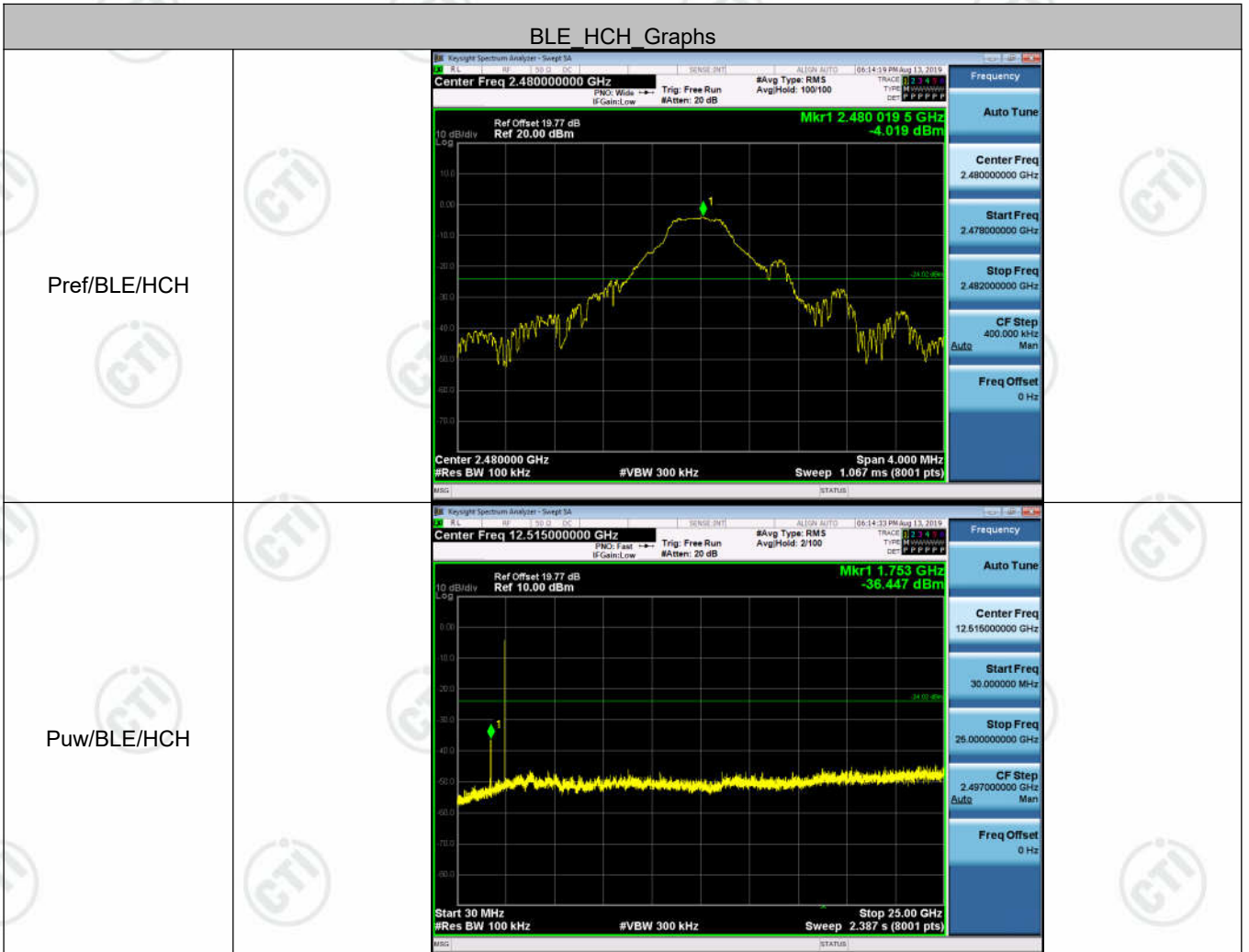
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-4.298	<Limit	PASS
BLE	MCH	-4.078	<Limit	PASS
BLE	HCH	-4.019	<Limit	PASS

Test Graphs







Appendix E): Power Spectral Density

Result Table

Mode	Channel	PSD [dBm]	Verdict
BLE	LCH	-14.535	PASS
BLE	MCH	-14.879	PASS
BLE	HCH	-13.369	PASS

Test Graphs

Graphs	
LCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.40200000 GHz Ref Offset 19.5 dB Ref 10.00 dBm Mkr1 2.402 009 38 GHz -14.535 dBm Center 2.4020000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts) Span 1.500 MHz</p>
MCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.44000000 GHz Ref Offset 19.77 dB Ref 10.00 dBm Mkr1 2.440 025 88 GHz -14.879 dBm Center 2.4400000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts) Span 1.500 MHz</p>
HCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.48000000 GHz Ref Offset 19.77 dB Ref 10.00 dBm Mkr1 2.479 053 31 GHz -13.369 dBm Center 2.4800000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts) Span 1.500 MHz</p>

Appendix F): Antenna Requirement

15.203 requirement:

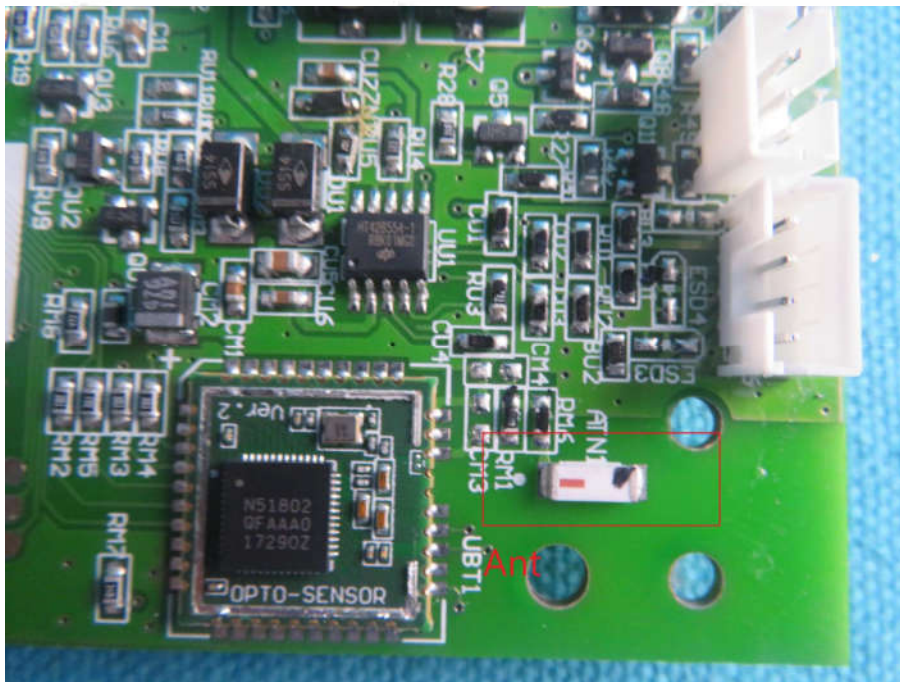
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 0 dBi.



Appendix G): AC Power Line Conducted Emission

<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> 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. 														
<p>Limit:</p>	<table border="1" data-bbox="496 1182 1366 1406"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>* 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</p>	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													

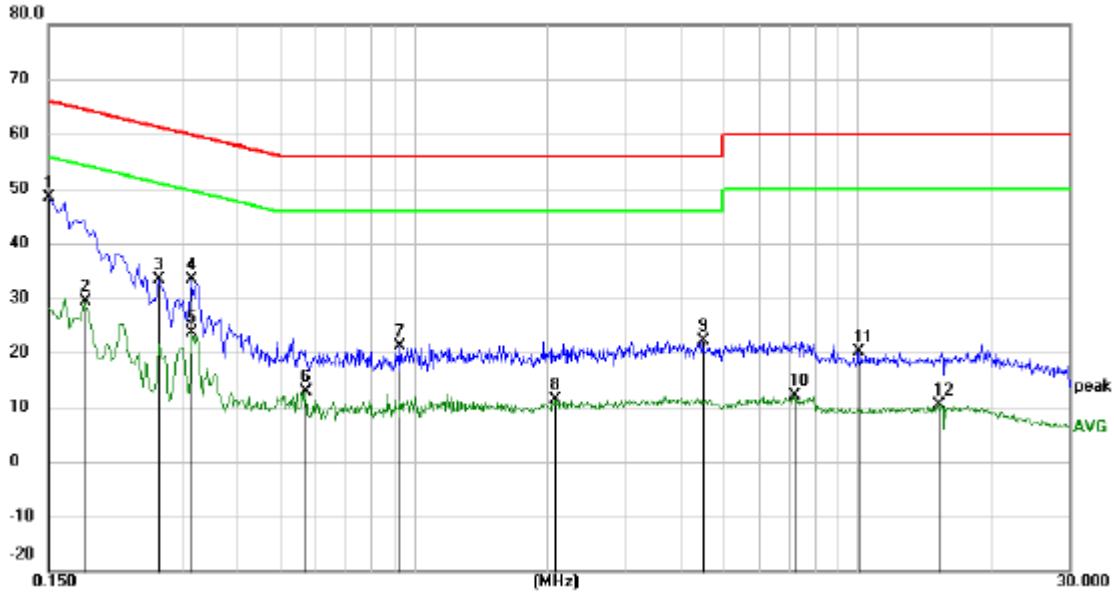
Measurement Data

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.

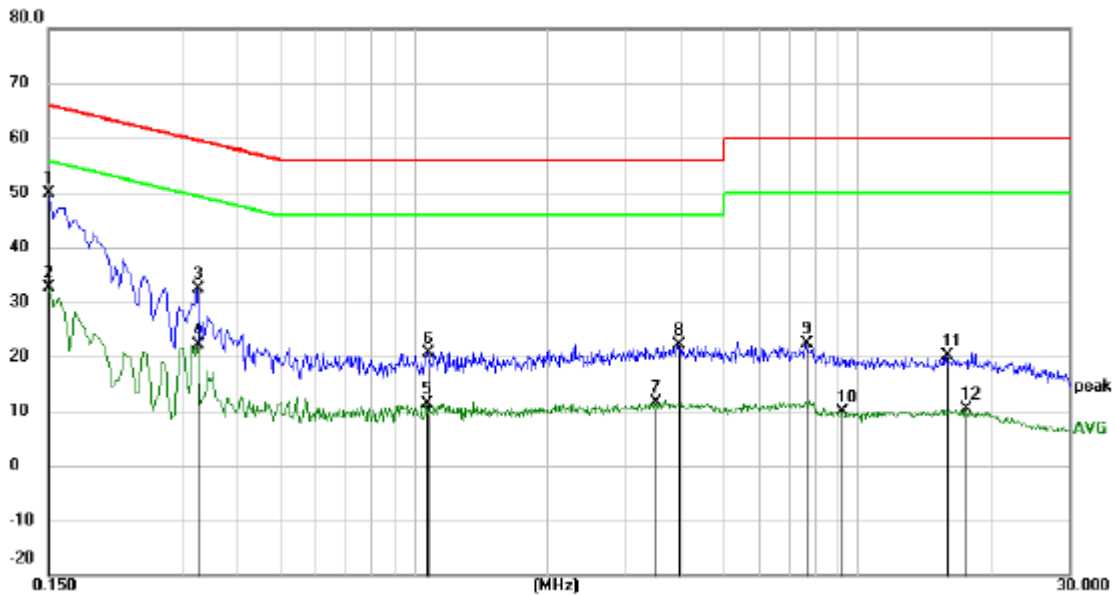
Product : Digital Blood Pressure Monitor **Model/Type** : BP3SK1-3B, WatchBP Office reference
Temperature : 21°C **Humidity** : 51%

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	38.29	9.97	48.26	66.00	-17.74	peak	
2		0.1815	19.49	10.00	29.49	54.42	-24.93	AVG	
3		0.2670	23.29	10.07	33.36	61.21	-27.85	peak	
4		0.3165	23.21	10.08	33.29	59.80	-26.51	peak	
5		0.3165	13.53	10.08	23.61	49.80	-26.19	AVG	
6		0.5730	2.70	10.09	12.79	46.00	-33.21	AVG	
7		0.9330	11.18	9.92	21.10	56.00	-34.90	peak	
8		2.0805	1.60	9.83	11.43	46.00	-34.57	AVG	
9		4.4970	12.22	9.83	22.05	56.00	-33.95	peak	
10		7.1835	2.26	9.86	12.12	50.00	-37.88	AVG	
11		10.0680	10.27	9.96	20.23	60.00	-39.77	peak	
12		15.2925	0.40	9.98	10.38	50.00	-39.62	AVG	

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	39.99	9.97	49.96	66.00	-16.04	peak	
2		0.1500	22.67	9.97	32.64	56.00	-23.36	AVG	
3		0.3255	22.41	10.07	32.48	59.57	-27.09	peak	
4		0.3255	12.09	10.07	22.16	49.57	-27.41	AVG	
5		1.0680	1.49	9.90	11.39	46.00	-34.61	AVG	
6		1.0725	10.64	9.90	20.54	56.00	-35.46	peak	
7		3.4935	1.85	9.83	11.68	46.00	-34.32	AVG	
8		3.9435	12.29	9.83	22.12	56.00	-33.88	peak	
9		7.6515	12.40	9.87	22.27	60.00	-37.73	peak	
10		9.2265	0.03	9.93	9.96	50.00	-40.04	AVG	
11		15.8055	10.08	9.97	20.05	60.00	-39.95	peak	
12		17.5380	0.34	9.95	10.29	50.00	-39.71	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.

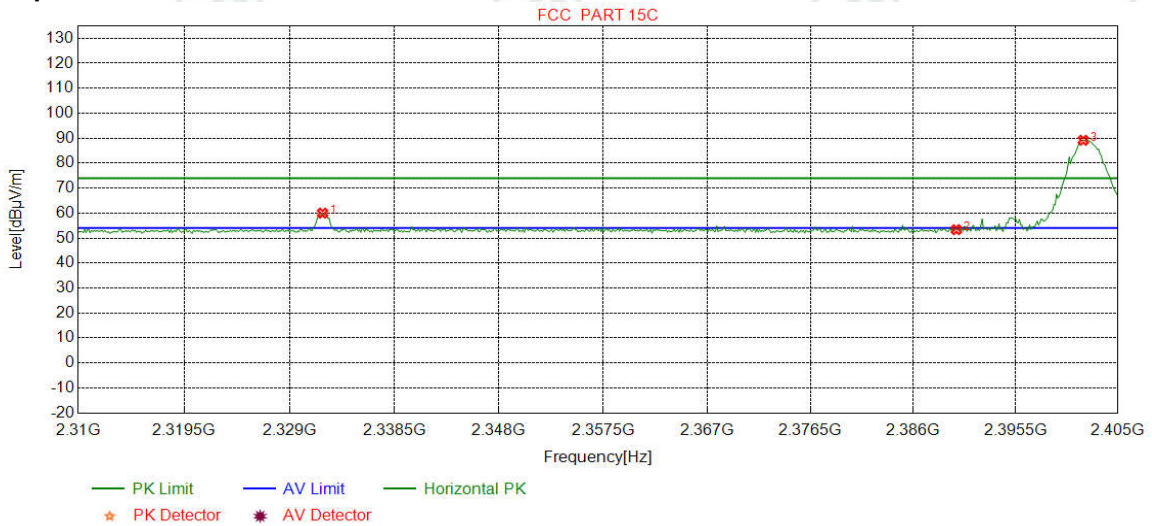
Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120kHz</td> <td>300kHz</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	10Hz	Average	
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:	<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> 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 <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> 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:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBμV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dB μ V/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
Frequency	Limit (dB μ V/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:	GFSK	Channel:	2402
Remark:	PK		

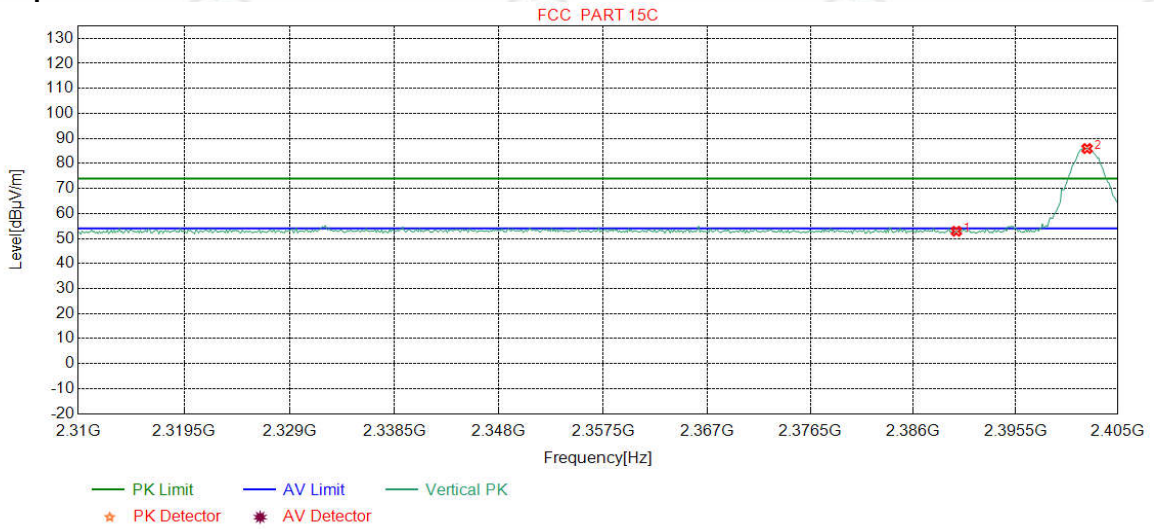
Test Graph



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	2331.9962	32.16	13.53	-42.46	56.76	59.99	74.00	14.01	Pass	Horizontal
2	2390.0000	32.25	13.37	-42.44	50.18	53.36	74.00	20.64	Pass	Horizontal
3	2401.7897	32.26	13.31	-42.43	86.02	89.16	74.00	-15.16	Pass	Horizontal

Mode:	GFSK	Channel:	2402
Remark:	PK		

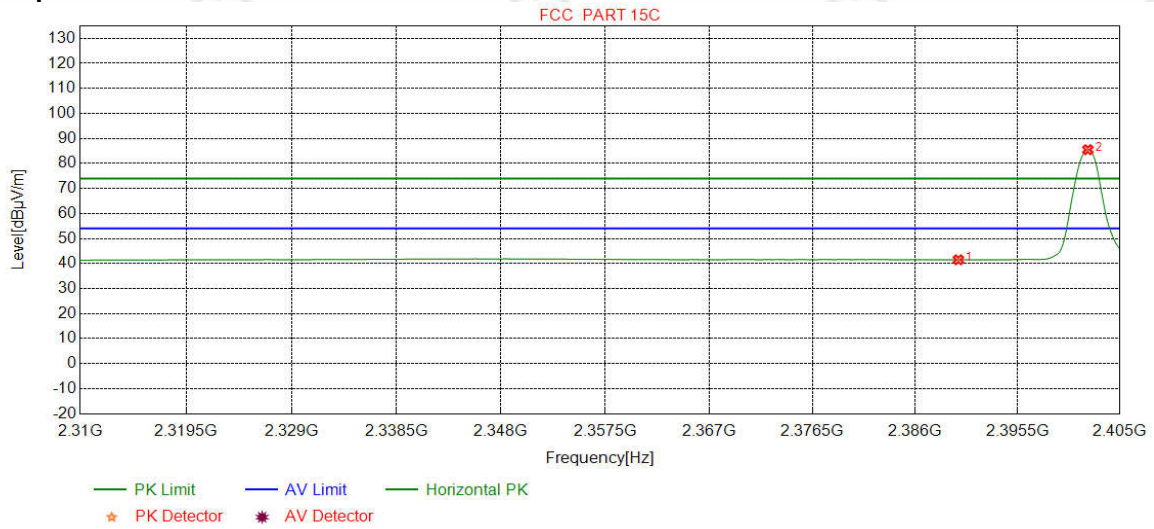
Test Graph



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	-42.44	49.73	52.91	74.00	21.09	Pass	Vertical
2	2402.1464	32.26	13.31	-42.43	82.81	85.95	74.00	-11.95	Pass	Vertical

Mode:	GFSK	Channel:	2402
Remark:	AV		

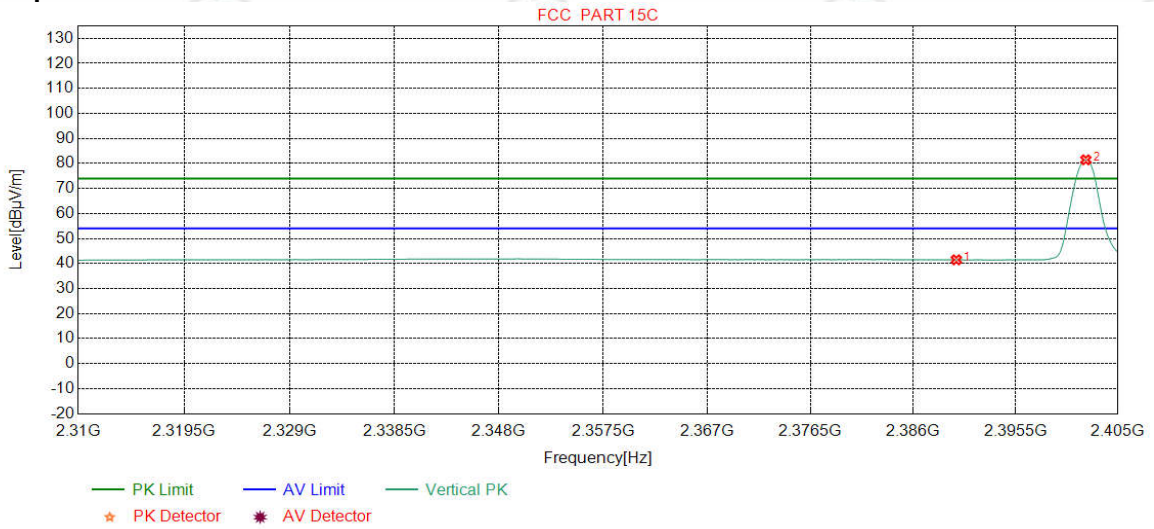
Test Graph



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	-42.44	38.30	41.48	54.00	12.52	Pass	Horizontal
2	2402.0275	32.26	13.31	-42.43	82.35	85.49	54.00	-31.49	Pass	Horizontal

Mode:	GFSK	Channel:	2402
Remark:	AV		

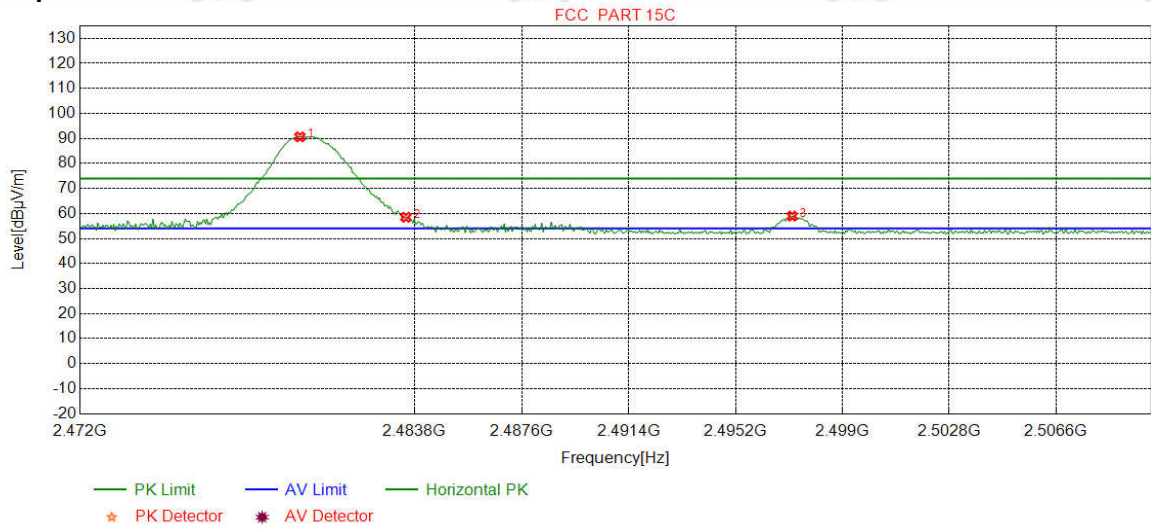
Test Graph



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	-42.44	38.29	41.47	54.00	12.53	Pass	Vertical
2	2402.0275	32.26	13.31	-42.43	78.31	81.45	54.00	-27.45	Pass	Vertical

Mode:	GFSK	Channel:	2480
Remark:	PK		

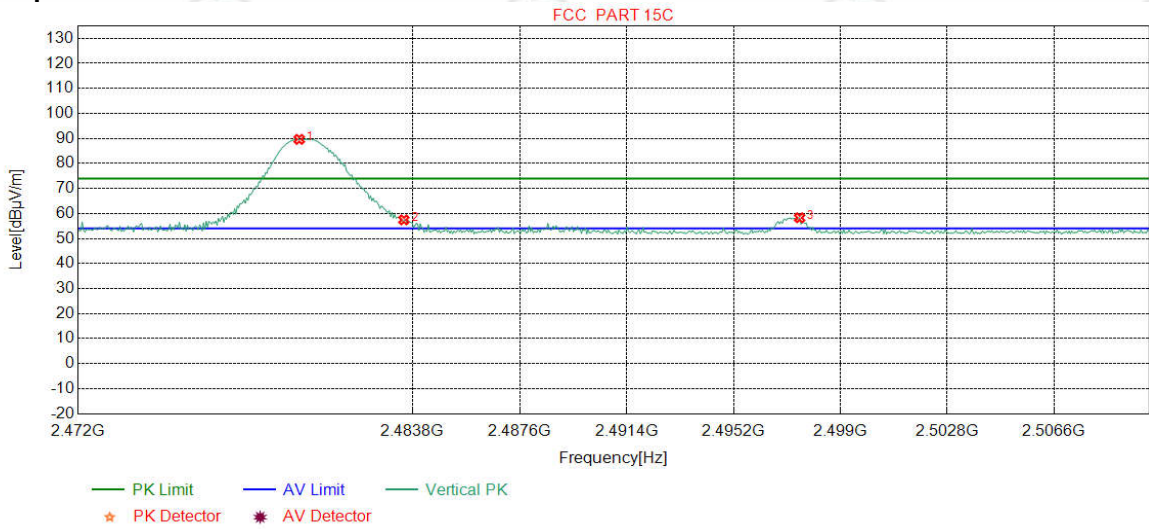
Test Graph



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	2479.7522	32.37	13.39	-42.39	87.24	90.61	74.00	-16.61	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	55.14	58.50	74.00	15.50	Pass	Horizontal
3	2497.2065	32.40	13.31	-42.39	55.63	58.95	74.00	15.05	Pass	Horizontal

Mode:	GFSK	Channel:	2480
Remark:	PK		

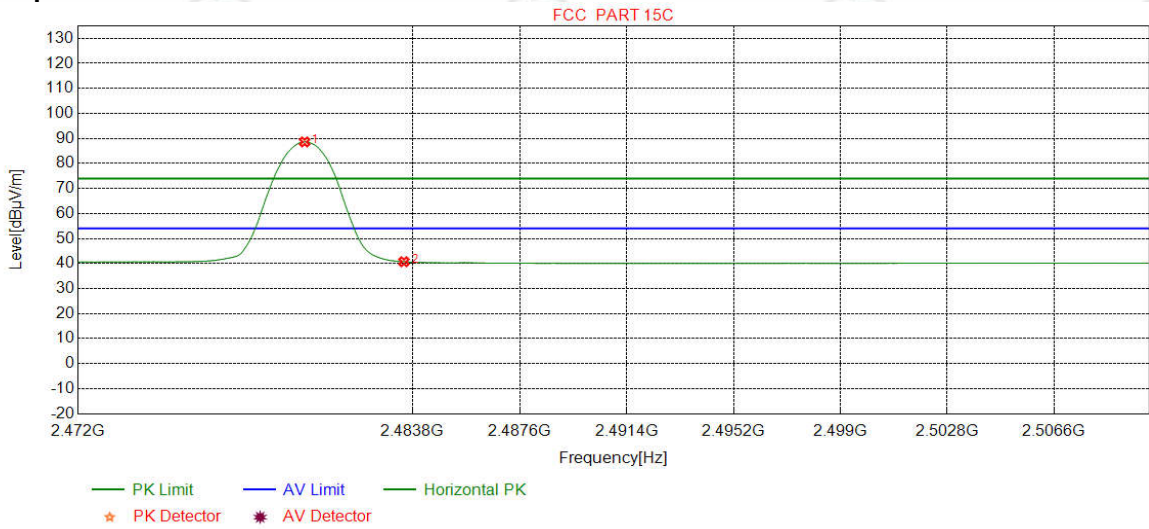
Test Graph



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	2479.7998	32.37	13.39	-42.39	86.26	89.63	74.00	-15.63	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	54.09	57.45	74.00	16.55	Pass	Vertical
3	2497.5394	32.40	13.31	-42.39	54.96	58.28	74.00	15.72	Pass	Vertical

Mode:	GFSK	Channel:	2480
Remark:	AV		

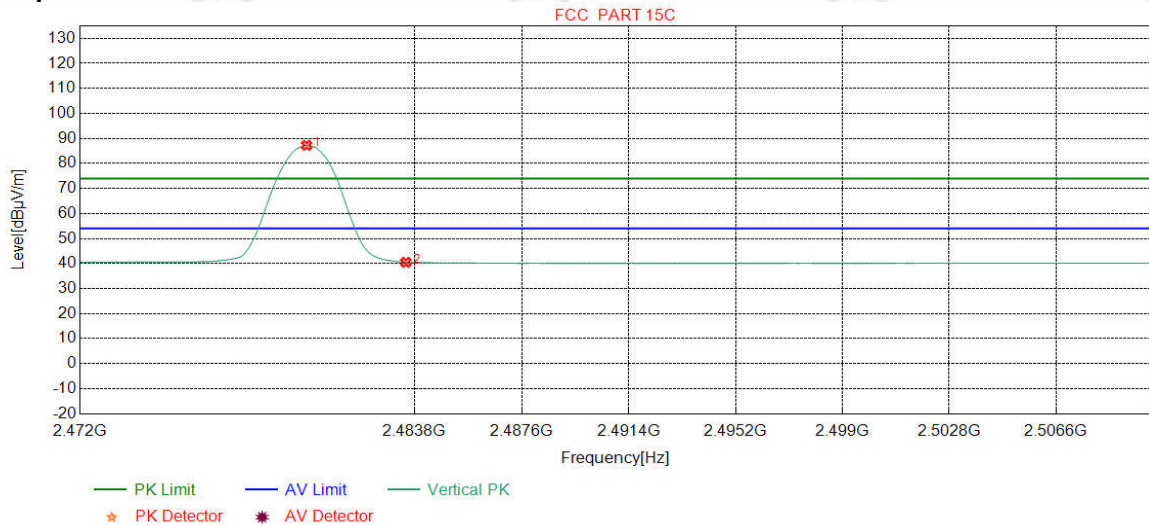
Test Graph



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	2479.9900	32.37	13.39	-42.39	85.24	88.61	54.00	-34.61	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	37.36	40.72	54.00	13.28	Pass	Horizontal

Mode:	GFSK	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	2479.9900	32.37	13.39	-42.39	83.87	87.24	54.00	-33.24	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	37.13	40.49	54.00	13.51	Pass	Vertical

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

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:

- 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 (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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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:

- 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).
- Test the EUT in the lowest channel ,the middle 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	Field strength (microvolt/meter)	Limit (dB μ V/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:			GFSK					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	36.6937	11.24	0.67	-32.11	41.01	20.81	40.00	19.19	Pass	H	PK
2	62.8863	10.85	0.91	-32.04	42.69	22.41	40.00	17.59	Pass	H	PK
3	129.9200	7.71	1.33	-32.02	43.99	21.01	43.50	22.49	Pass	H	PK
4	208.8859	11.13	1.71	-31.94	48.68	29.58	43.50	13.92	Pass	H	PK
5	649.9890	19.40	3.10	-32.07	39.90	30.33	46.00	15.67	Pass	H	PK
6	909.9750	22.16	3.60	-31.48	34.14	28.42	46.00	17.58	Pass	H	PK
7	68.5129	9.39	0.94	-32.05	42.21	20.49	40.00	19.51	Pass	V	PK
8	132.2482	7.59	1.34	-32.01	49.24	26.16	43.50	17.34	Pass	V	PK
9	208.8859	11.13	1.71	-31.94	41.66	22.56	43.50	20.94	Pass	V	PK
10	390.0030	15.18	2.35	-31.81	37.11	22.83	46.00	23.17	Pass	V	PK
11	649.9890	19.40	3.10	-32.07	39.26	29.69	46.00	16.31	Pass	V	PK
12	909.9750	22.16	3.60	-31.48	33.42	27.70	46.00	18.30	Pass	V	PK

Mode:			GFSK					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	36.6937	11.24	0.67	-32.11	42.40	22.20	40.00	17.80	Pass	H	PK
2	66.2816	9.97	0.93	-32.05	42.88	21.73	40.00	18.27	Pass	H	PK
3	129.5320	7.77	1.33	-32.02	44.22	21.30	43.50	22.20	Pass	H	PK
4	208.8859	11.13	1.71	-31.94	48.79	29.69	43.50	13.81	Pass	H	PK
5	649.9890	19.40	3.10	-32.07	39.54	29.97	46.00	16.03	Pass	H	PK
6	907.9378	22.15	3.60	-31.50	33.67	27.92	46.00	18.08	Pass	H	PK
7	36.6937	11.24	0.67	-32.11	42.18	21.98	40.00	18.02	Pass	V	PK
8	69.0949	9.24	0.94	-32.05	41.86	19.99	40.00	20.01	Pass	V	PK
9	130.1140	7.69	1.33	-32.01	49.27	26.28	43.50	17.22	Pass	V	PK
10	208.8859	11.13	1.71	-31.94	41.26	22.16	43.50	21.34	Pass	V	PK
11	413.7704	15.62	2.43	-31.84	36.83	23.04	46.00	22.96	Pass	V	PK
12	649.9890	19.40	3.10	-32.07	39.53	29.96	46.00	16.04	Pass	V	PK

Mode:			GFSK					Channel:		2480	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	36.6937	11.24	0.67	-32.11	40.64	20.44	40.00	19.56	Pass	H	PK
2	65.0205	10.29	0.92	-32.04	43.33	22.50	40.00	17.50	Pass	H	PK
3	128.0768	7.99	1.32	-32.03	44.11	21.39	43.50	22.11	Pass	H	PK
4	208.8859	11.13	1.71	-31.94	48.51	29.41	43.50	14.09	Pass	H	PK
5	649.9890	19.40	3.10	-32.07	39.80	30.23	46.00	15.77	Pass	H	PK
6	875.0515	21.80	3.55	-31.70	33.58	27.23	46.00	18.77	Pass	H	PK
7	36.6937	11.24	0.67	-32.11	40.63	20.43	40.00	19.57	Pass	V	PK
8	68.9009	9.29	0.94	-32.05	42.98	21.16	40.00	18.84	Pass	V	PK
9	133.1213	7.54	1.35	-32.01	49.17	26.05	43.50	17.45	Pass	V	PK
10	240.0260	11.94	1.84	-31.90	41.11	22.99	46.00	23.01	Pass	V	PK
11	649.9890	19.40	3.10	-32.07	39.07	29.50	46.00	16.50	Pass	V	PK
12	909.9750	22.16	3.60	-31.48	33.64	27.92	46.00	18.08	Pass	V	PK

Transmitter Emission above 1GHz

Mode:			GFSK					Channel:		2402	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	2057.1057	31.78	3.56	-42.58	50.96	43.72	74.00	30.28	Pass	H	PK
2	2964.5965	33.14	4.44	-42.13	50.87	46.32	74.00	27.68	Pass	H	PK
3	4804.1203	34.50	4.55	-40.66	57.56	55.95	74.00	18.05	Pass	H	PK
4	7206.0000	36.31	5.81	-41.02	49.65	50.75	74.00	23.25	Pass	H	PK
5	9608.0000	37.64	6.63	-40.76	43.44	46.95	74.00	27.05	Pass	H	PK
6	12010.000	39.31	7.60	-41.21	43.44	49.14	74.00	24.86	Pass	H	PK
7	4803.5103	34.50	4.55	-40.66	50.79	49.18	54.00	4.82	Pass	H	AV
8	4803.5103	34.50	4.55	-40.66	50.65	49.04	54.00	4.96	Pass	H	AV
9	1855.6856	30.75	3.38	-42.68	51.18	42.63	74.00	31.37	Pass	V	PK
10	2840.7841	32.95	4.23	-42.21	50.99	45.96	74.00	28.04	Pass	V	PK
11	4804.1203	34.50	4.55	-40.66	56.67	55.06	74.00	18.94	Pass	V	PK
12	7206.0000	36.31	5.81	-41.02	47.27	48.37	74.00	25.63	Pass	V	PK
13	9608.0000	37.64	6.63	-40.76	43.31	46.82	74.00	27.18	Pass	V	PK
14	12010.000	39.31	7.60	-41.21	42.69	48.39	74.00	25.61	Pass	V	PK
15	4803.4603	34.50	4.55	-40.66	49.01	47.40	54.00	6.60	Pass	V	AV

Mode:			GFSK					Channel:		2440	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1899.2899	31.04	3.42	-42.67	51.06	42.85	74.00	31.15	Pass	H	PK
2	2783.7784	32.85	4.21	-42.23	51.90	46.73	74.00	27.27	Pass	H	PK
3	4879.1253	34.50	4.80	-40.60	57.19	55.89	74.00	18.11	Pass	H	PK
4	7320.0000	36.42	5.85	-40.92	48.07	49.42	74.00	24.58	Pass	H	PK
5	9760.0000	37.70	6.73	-40.62	42.19	46.00	74.00	28.00	Pass	H	PK
6	12200.000	39.42	7.67	-41.17	44.04	49.96	74.00	24.04	Pass	H	PK
7	4879.5853	34.50	4.80	-40.60	53.16	51.86	54.00	2.14	Pass	H	AV
8	1886.0886	30.95	3.41	-42.67	50.91	42.60	74.00	31.40	Pass	V	PK
9	3183.0122	33.27	4.62	-42.00	50.27	46.16	74.00	27.84	Pass	V	PK
10	4879.1253	34.50	4.80	-40.60	55.61	54.31	74.00	19.69	Pass	V	PK
11	7320.0000	36.42	5.85	-40.92	46.26	47.61	74.00	26.39	Pass	V	PK
12	9760.0000	37.70	6.73	-40.62	43.44	47.25	74.00	26.75	Pass	V	PK
13	12200.000	39.42	7.67	-41.17	43.15	49.07	74.00	24.93	Pass	V	PK
14	4879.4153	34.50	4.80	-40.60	48.70	47.40	54.00	6.60	Pass	V	AV

Mode:			GFSK					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	2088.5089	31.82	3.58	-42.57	51.12	43.95	74.00	30.05	Pass	H	PK
2	3238.0159	33.30	4.50	-41.98	50.56	46.38	74.00	27.62	Pass	H	PK
3	4959.1306	34.50	4.82	-40.53	57.68	56.47	74.00	17.53	Pass	H	PK
4	7440.0000	36.54	5.85	-40.82	44.76	46.33	74.00	27.67	Pass	H	PK
5	9920.0000	37.77	6.79	-40.48	43.49	47.57	74.00	26.43	Pass	H	PK
6	12400.000	39.54	7.86	-41.12	44.44	50.72	74.00	23.28	Pass	H	PK
7	4959.5106	34.50	4.82	-40.53	52.38	51.17	54.00	2.83	Pass	H	AV
8	1996.6997	31.68	3.47	-42.62	50.41	42.94	74.00	31.06	Pass	V	PK
9	3197.0131	33.28	4.65	-42.01	51.17	47.09	74.00	26.91	Pass	V	PK
10	4959.1306	34.50	4.82	-40.53	56.60	55.39	74.00	18.61	Pass	V	PK
11	7440.0000	36.54	5.85	-40.82	43.26	44.83	74.00	29.17	Pass	V	PK
12	9920.0000	37.77	6.79	-40.48	43.42	47.50	74.00	26.50	Pass	V	PK
13	12400.000	39.54	7.86	-41.12	44.21	50.49	74.00	23.51	Pass	V	PK
14	4959.3906	34.50	4.82	-40.53	49.27	48.06	54.00	5.94	Pass	V	AV

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

3) 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.