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TEST REPORT

Product : Blood Glucose Meter

Trade mark : N/A

Model/Type reference : BG-710b, BG-210b

Test Model No. : BG-710b

Serial Number : N/A

Report Number : EED32N00024201

FCC ID : 2AWPL0003

Date of Issue : Jul. 05, 2021

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic
Development Zone, Hangzhou City, 311100 Zhejiang P.R. China

Prepared by:

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/ 5

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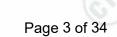












2 Version

Version No.	Date	(6	Description	<u>S)</u>
00	Jul. 05, 2021		Original	
((8













































































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3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

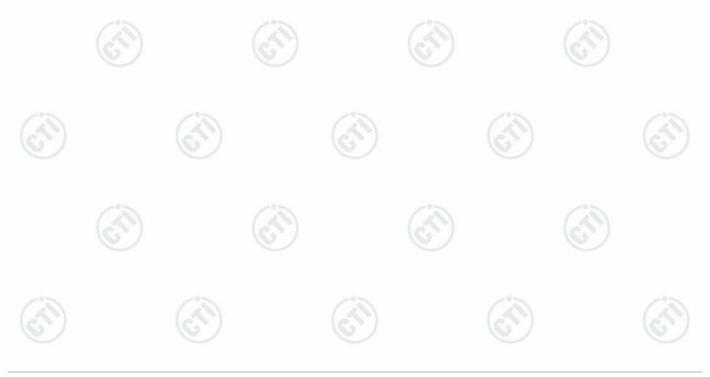
Remark:

N/A: The EUT powered by 2*AAA battery, So Not Applicable

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: BG-710b, BG-210b

Only the model BG-710b was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.





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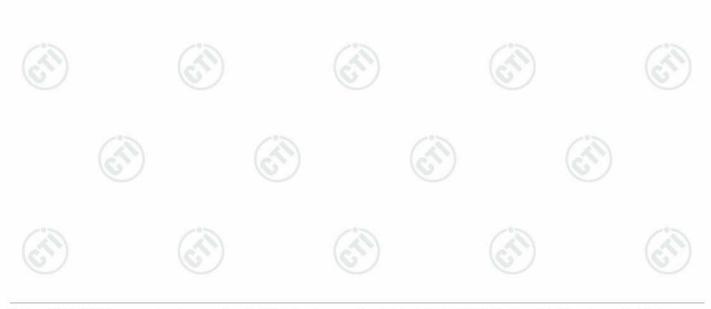
4 General Information

4.1 Client Information

Applicant:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Applicant:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China
Manufacturer:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Manufacturer:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China
Factory:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Factory:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China

4.2 General Description of EUT

Product Name:	Blood Glucose Meter
Mode No.:	BG-710b, BG-210b
Test Model No.:	BG-710b
Trade Mark:	N/A
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	⊠ 1Mbps □ 2Mbps
Test Power Grade:	Default
Test Software of EUT:	PhyPlusKit
Antenna Type:	PCB antenna
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Gain:	0.5dBi
Power Supply:	2*AAA Battery
Sample Received Date:	Apr. 15, 2021
Sample tested Date:	Apr. 16, 2021 to May 11, 2021





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

Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz





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4.3 Test Configuration

EUT Test Software	Settings:				
Software:	PhyPlusKit				
EUT Power Grade: Class2 (Power level is built-in set parameters and cannot be changed selected)					
Use test software to transmitting of the El	set the lowest frequency JT.	/, the middle frequ	uency and the highest	frequency keep	
Test Mode	Modulation	Rate	Channel	Frequency(MHz)	
Mode a	GFSK	1Mbps	CH0	2402	
Mode b	GFSK	1Mbps	CH19	2440	
Mode c	GFSK	1Mbps	CH39	2480	

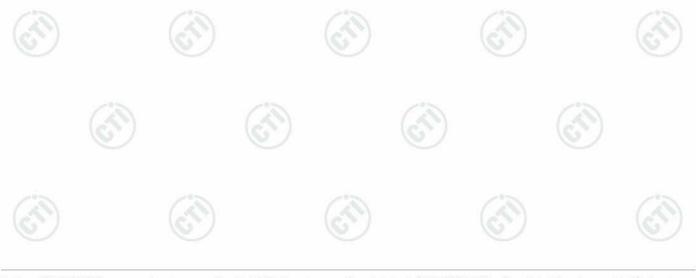
4.4 Test Environment

7 25 35 1		1.4.31		1. 45. 51		1 15
Operating Environment	:					
Radiated Spurious Emi	ssions:					
Temperature:	22~25.0 °C					
Humidity:	50~55 % RH		130		(3)	
Atmospheric Pressure:	1010mbar		(67)		(6)	
RF Conducted:						
Temperature:	22~25.0 °C					
Humidity:	50~55 % RH	-0		100		100
Atmospheric Pressure:	1010mbar	(35)		(25)		(20)
	Radiated Spurious Emi Temperature: Humidity: Atmospheric Pressure: RF Conducted: Temperature: Humidity:	Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH	Radiated Spurious Emissions: Temperature: 22~25.0 °C Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH	Radiated Spurious Emissions: Temperature: 22~25.0 °C Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH	Radiated Spurious Emissions: Temperature: 22~25.0 °C Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH	Radiated Spurious Emissions: Temperature: 22~25.0 °C Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

	sociated ment name	Manufacture	model	S/N serial number	Supplied by	Certification
AE	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC





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4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

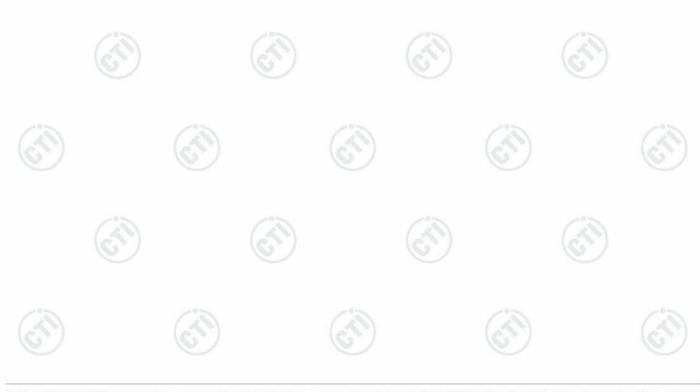
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted. FCC Designation No.: CN1164

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

No.	Item	Measurement Uncertainty
(T)	Radio Frequency	7.9 x 10 ⁻⁸
2	DC newer conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
		3.3dB (9kHz-30MHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
	Conduction emission	3.5dB (9kHz to 150kHz)
(4)	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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5 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	12-28-2020	12-27-2021				
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021				
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-29-2020	06-28-2021				
High-pass filter Sinoscite		FL3CX03WG18 NM12-0398-002	(4)	((B)				
High-pass filter MICRO-TRONICS		SPA-F-63029-4			<u> </u>				
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021				
PC-1	Lenovo	R4960d		(in	/3				
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021				
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021				
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	05-16-2020	05-15-2021			
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024			
Receiver	R&S	ESCI7	100938-003	10-16-2020	10-15-2021			
Multi device Controller	maturo	NCD/070/10711 112	(O.)	(6	5) 			
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021			
Cable line	Fulai(7M)	SF106	5219/6A					
Cable line	Fulai(6M)	SF106	5220/6A					
Cable line	Fulai(3M)	SF106	5216/6A	(- N - 1	(87)			
Cable line	Fulai(3M)	SF106	5217/6A	W _L	(8)			















		3M full-anechoi	ic 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	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018 04-24-2021	04-24-2021 04-23-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS- LINDGREN	3117	00057407	07-10-2018	07-09-2021	
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021 04-14-2022	
Preamplifier	EMCI	EMC001330	980563	04-15-2021		
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001	(<u> </u>	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002		v	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003			
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	(3)	(2	
Cable line	Times	EMC104-NMNM- 1000	SN160710	(C)	(6)	
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001			
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	/	- a	
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		35)	
Cable line	Times	HF160-KMKM- 3.00M	393493-0001			





















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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

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: Please see Internal photos

The antenna is PCB antenna. The best case gain of the antenna is 0.5dBi.





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6.2 Maximum Conducted Output Power

47 CFR Part 15C Section 15.247 (b)(3)
ANSI C63.10 2013
Control Control Control Control Control Power Supply Attenuator Temperature Cabriet Table RF test System System Instrument
Remark: Offset=Cable loss+ attenuation factor.
 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x 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.
30dBm
Refer to clause 5.3
Refer to Appendix A





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6.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10 2013					
	ANSI C03.10 2013					
Test Setup:						
	Control Computer Supply Power Supply Table RF test System Instrument Instrument					
	Remark: Offset=Cable loss+ attenuation factor.					
Test Procedure:	a) Set RBW = 100 kHz.					
	b) Set the VBW \geqslant [3 \times RBW].					
	c) Detector = peak.					
	d) Trace mode = max hold.					
	e) Sweep = auto couple.					
	f) Allow the trace to stabilize.					
	g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.					
Limit:	≥ 500 kHz					
Test Mode:	Refer to clause 5.3					
Test Results:	Refer to Appendix A					

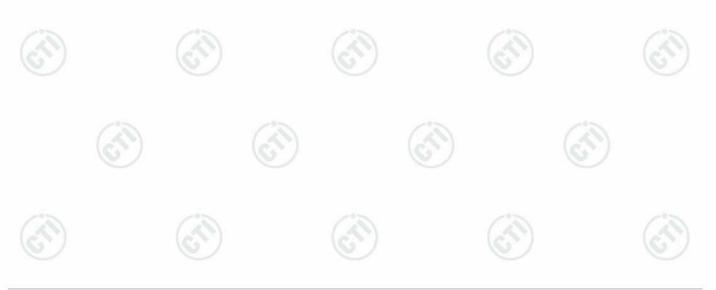




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6.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Conquiter Conquiter Power Supply Power Table RF test System Instrument Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A
4.600.00	140.000

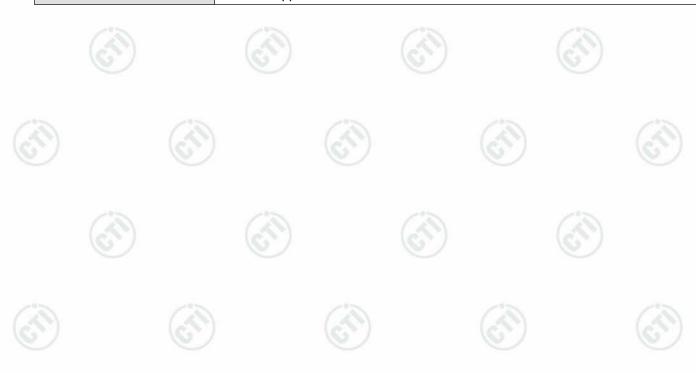






6.5 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Power Supply Power Supply Table RF test System System Instrument Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A





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6.6 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15.	.205	6.	/		
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013						
Test Site:	Measurement Distance	: 3m	ı (Semi-Anech	oic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	z	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MH	Z	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10kHz	Average		
Limit:	Frequency	Field strength (microvolt/meter)		Limit (dBuV/m)	Remark	Measureme distance (m		
	/ 100		400/F(kHz)	-		300		
			000/F(kHz)	-	(A)	30		
	1.705MHz-30MHz		30	-	100	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz	10	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), I frequency emissions is limit applicable to the e peak emission level rad	20d quip	IB above the roment under to	maximum est. This p	permitted av	erage emissio		





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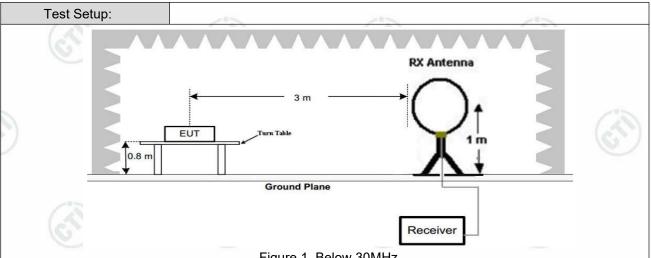
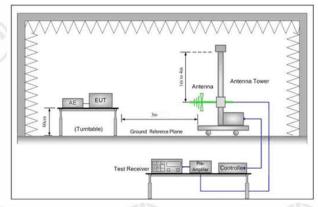


Figure 1. Below 30MHz



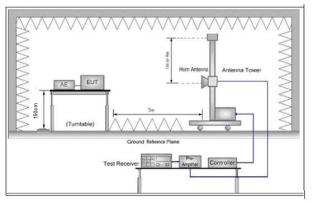


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: 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.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.

Note: For the radiated emission test above 1GHz:

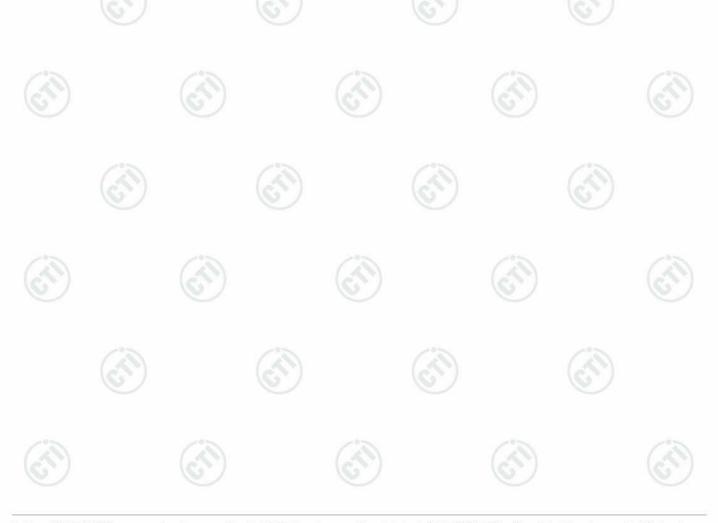
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was 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



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	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 table 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass



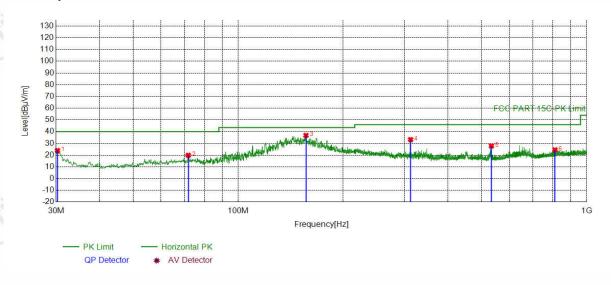


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Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode a was recorded in the report.

Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	30.2910	-19.77	43.68	23.91	40.00	16.09	PASS	Horizontal	Peak
2	71.9082	-21.14	41.03	19.89	40.00	20.11	PASS	Horizontal	Peak
3	156.5007	-21.32	58.17	36.85	43.50	6.65	PASS	Horizontal	Peak
4	312.3952	-15.09	48.32	33.23	46.00	12.77	PASS	Horizontal	Peak
5	532.9953	-10.19	38.01	27.82	46.00	18.18	PASS	Horizontal	Peak
6	811.5102	-6.34	30.83	24.49	46.00	21.51	PASS	Horizontal	Peak





-10 ----20 30M

PK Limit

QP Detector

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100M

Vertical PK

* AV Detector

Factor Freq. Reading Level Limit NO Margin [dB] Result **Polarity** Remark [dB] [dBµV/m] [dBµV/m] [MHz] [dBµV] 1 30.0970 -19.78 43.22 23.44 40.00 16.56 **PASS** Vertical Peak 2 72.1022 -21.17 45.64 24.47 40.00 15.53 **PASS** Vertical Peak 3 144.1804 -21.87 52.72 30.85 43.50 12.65 **PASS** Vertical Peak 4 285.0385 -15.83 41.68 25.85 46.00 20.15 **PASS** Vertical Peak 5 533.4803 -10.18 35.47 25.29 46.00 20.71 **PASS** Vertical Peak 6 904.3484 -4.94 29.53 24.59 46.00 21.41 **PASS** Vertical Peak

Frequency[Hz]





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Radiated Spurious Emission above 1GHz:

Mode:			BLE GFSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1066.4066	0.88	43.46	44.34	74.00	29.66	Pass	Н	PK
2	1922.8923	4.15	42.13	46.28	74.00	27.72	Pass	Н	PK
3	4803.1202	-16.23	65.35	49.12	74.00	24.88	Pass	Н	PK
4	7205.2804	-11.83	62.34	50.51	74.00	23.49	Pass	Н	PK
5	9609.4406	-7.37	54.69	47.32	74.00	26.68	Pass	Н	PK
6	14408.7606	1.09	49.88	50.97	74.00	23.03	Pass	Н	PK
7	1012.8013	0.94	43.75	44.69	74.00	29.31	Pass	V	PK
8	2131.3131	4.54	45.17	49.71	74.00	24.29	Pass	V	PK
9	4804.1203	-16.23	66.27	50.04	74.00	23.96	Pass	V	PK
10	7207.2805	-11.83	63.31	51.48	74.00	22.52	Pass	V	PK
11	10230.4820	-6.93	53.29	46.36	74.00	27.64	Pass	V	PK
12	14368.7579	0.70	50.44	51.14	74.00	22.86	Pass	V	PK

Mode:				BLE GFSK Transmitting			Channel:		2440 MHz	
(0)	NO	Freq. [MHz]	Facto	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Š	1	1066.4066	0.88	42.94	43.82	74.00	30.18	Pass	Н	PK
9	2	2113.1113	4.74	42.54	47.28	74.00	26.72	Pass	Н	PK
	3	4880.1253	-16.21	68.81	52.60	74.00	21.40	Pass	Н	PK
	4	7320.2880	-11.65	62.24	50.59	74.00	23.41	Pass	Н	PK
	5	9759.4506	-7.51	54.65	47.14	74.00	26.86	Pass	Н	PK
	6	13736.7158	-1.72	52.14	50.42	74.00	23.58	Pass	Н	PK
	7	1136.6137	0.83	43.36	44.19	74.00	29.81	Pass	V	PK
	8	2031.3031	4.65	43.47	48.12	74.00	25.88	Pass	V	PK
	9	3199.0133	-20.35	61.46	41.11	74.00	32.89	Pass	V	PK
3	10	4880.1253	-16.21	68.71	52.50	74.00	21.50	Pass	V	PK
	11	7319.2880	-11.66	60.39	48.73	74.00	25.27	Pass	V	PK
	12	11774.5850	-6.15	54.44	48.29	74.00	25.71	Pass	V	PK













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Mode	: :		BLE GFSK Trai	nsmitting		Channel:		2480 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1062.8063	0.89	43.62	44.51	74.00	29.49	Pass	Н	PK
2	2102.3102	4.85	42.00	46.85	74.00	27.15	Pass	Н	PK
3	3197.0131	-20.36	59.16	38.80	74.00	35.20	Pass	Н	PK
4	4960.1307	-15.97	70.37	54.40	74.00	19.60	Pass	Н	PK
5	4961.1307	-15.97	63.56	47.59	54.00	6.41	Pass	Н	AV
6	7439.2960	-11.34	58.20	46.86	74.00	27.14	Pass	Н	PK
7	13754.7170	-1.69	51.50	49.81	74.00	24.19	Pass	Н	PK
8	1177.8178	0.81	43.39	44.20	74.00	29.80	Pass	V	PK
9	2075.5076	4.80	41.64	46.44	74.00	27.56	Pass	V	PK
10	3318.0212	-19.87	59.49	39.62	74.00	34.38	Pass	V	PK
11	4959.1306	-15.98	73.12	57.14	74.00	16.86	Pass	V	PK
12	4961.1307	-15.97	65.24	49.27	54.00	4.73	Pass	V	AV
13	7439.2960	-11.34	59.07	47.73	74.00	26.27	Pass	V	PK
14	13764.7176	-1.68	51.92	50.24	74.00	23.76	Pass	V	PK

Remark:

- 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 + Factor
 - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.





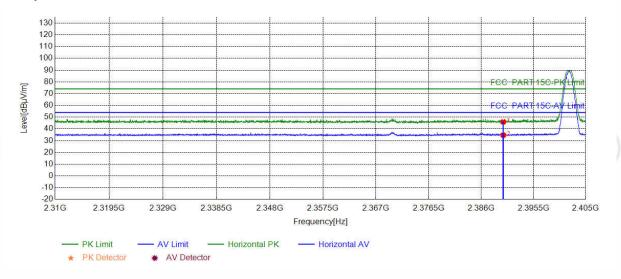
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Restricted bands:

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:	(35)	(25)	(6

Test Graph



	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
9	1	2390.0000	5.77	40.19	45.96	74.00	28.04	PASS	Horizontal	PK
	2	2390.0000	5.77	28.88	34.65	54.00	19.35	PASS	Horizontal	AV

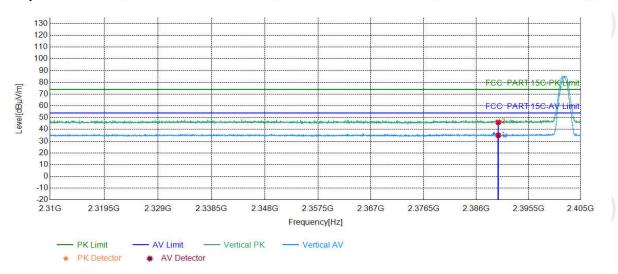




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Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:			

Test Graph



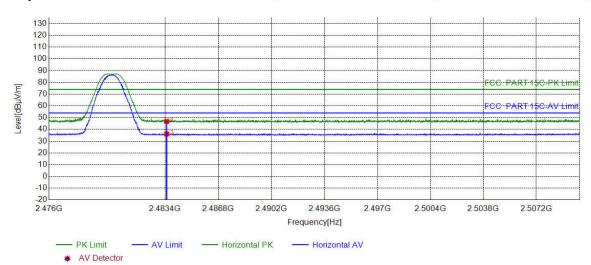
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.31	46.08	74.00	27.92	PASS	Vertical	PK
2	2390.0000	5.77	29.21	34.98	54.00	19.02	PASS	Vertical	AV



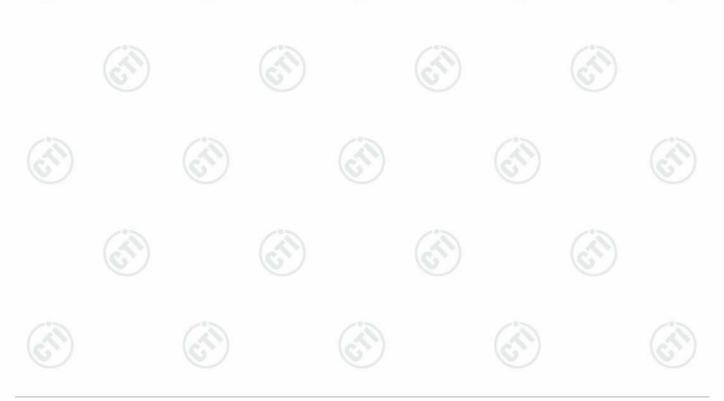


Mode:	BLE GFSK Transmitting	Channel:	2480 MHz
Remark:			

Test Graph



	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	40.31	46.88	74.00	27.12	PASS	Horizontal	PK
<u>.</u>	2	2483.5000	6.57	29.56	36.13	54.00	17.87	PASS	Horizontal	AV

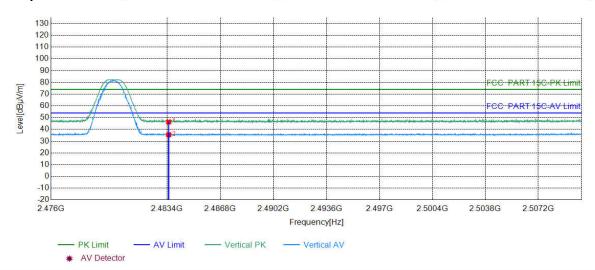




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Mode:	BLE GFSK Transmitting	Channel:	2480 MHz	
Remark:				

Test Graph



	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	39.80	46.37	74.00	27.63	PASS	Vertical	PK
ā.	2	2483.5000	6.57	28.86	35.43	54.00	18.57	PASS	Vertical	AV

Note

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 + Factor

Factor=Antenna Factor + Cable Factor - Preamplifier Factor











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Appendix A







Refer to Appendix: Bluetooth LE of EED32N00024201.

















































































