Test Report

Date : 2018-06-26
No. : HM18040017

Applicant: ZERO FOUNDER Co., Ltd
G-760, 815, Daewanpangyo-ro, Sujeong-gu, Seongnam-Si, Gyeonggi-do, South Korea

Supplier / Manufacturer: Shenzhen ShengKang Electronics Technology Co., Lt
3/F Building F, Xinlong Technology Park, No 49 Xiner Zhuangcun Road, Shajing Town, Baoan, Shenzhen, China

Description of Sample(s): Submitted sample(s) said to be

Product:	Eclair Skin Device
Brand Name:	ECLAIR
Model No.:	ZEFA-DV-EC-0001
FCC ID:	2APRWZFDVEC001

Date Samples Received: 2018-04-27

Date Tested: 2018-05-22 to 2018-05-31

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI C63.10:2013 for FCC Certification.

Conclusions: The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks: Bluetooth DTS (GFSK)

CHEUNG Chi, Kenneth
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

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Test Report

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product:	Eclair Skin Device
Manufacturer:	Shenzhen ShengKang Electronics Technology Co., Lt 3/F Building F, Xinlong Technology Park, No 49 Xiner Zhuangcun Road, Shajing Town, Baoan, Shenzhen, China
Brand Name:	ECLAIR
Model Number:	ZEFA-DV-EC-0001
Rating:	5.0Vd.c. Powered by USB port/ 3.7 Vd.c. (1*3.7Vd.c. Rechargeable battery)

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Bluetooth Skin Moisture Device. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was GFSK.

1.3 Date of Order

2018-04-27

1.4 Submitted Sample(s):

2 Samples

1.5 Test Duration

2018-05-22 to 2018-05-31

1.6 Country of Origin

China

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1.7 RF Module Details

Module Model Number: N51922
Module FCC ID: N/A
Module Transmission Type: Bluetooth V4.0 BLE
Modulation: GFSK
Data Rates: 1Mbps
Frequency Range: 2400-2483.5MHz
Carrier Frequencies: 2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

1.8 Antenna Details

Antenna Type: Meander Line Antenna
Antenna Gain: 0.0dBi

1.9 Channel List

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

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification.
According FCC KDB 558074 DTS Measurement Guidance, Duty cycle ≧98%.
The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2013	N/A	☒	☐	☐
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A	☒	☐	☐
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10: 2013	N/A	☒	☐	☐
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2013	N/A	☒	☐	☐
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2013	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐
RF Exposure	FCC 47CFR 15.247(i)	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

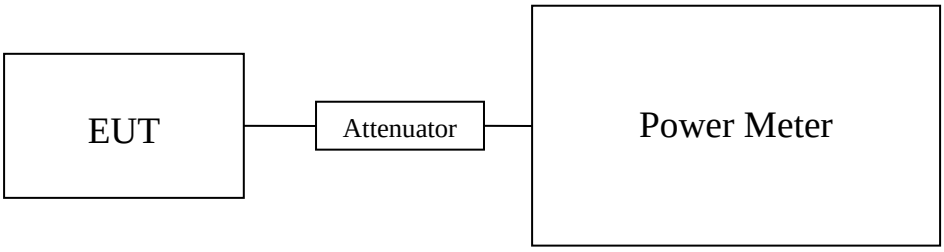
Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	ANSI C63.10: 2013
Test Date:	2018-05-29
Mode of Operation:	Bluetooth DTS Tx mode

Test Method:

The RF output of the EUT was connected to the Power Meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.

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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of BT DTS Tx Mode (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK)
Maximum conducted output power(EIRP)

Channel	Frequency(MHz)	Output Power(Watt)
0	2402	0.0000043
19	2440	0.0000049
39	2480	0.0000037

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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3.1.2 Radiated Emissions

Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2013
Test Date:	2018-05-30
Mode of Operation:	Tx mode / Bluetooth Communication mode (GFSK)

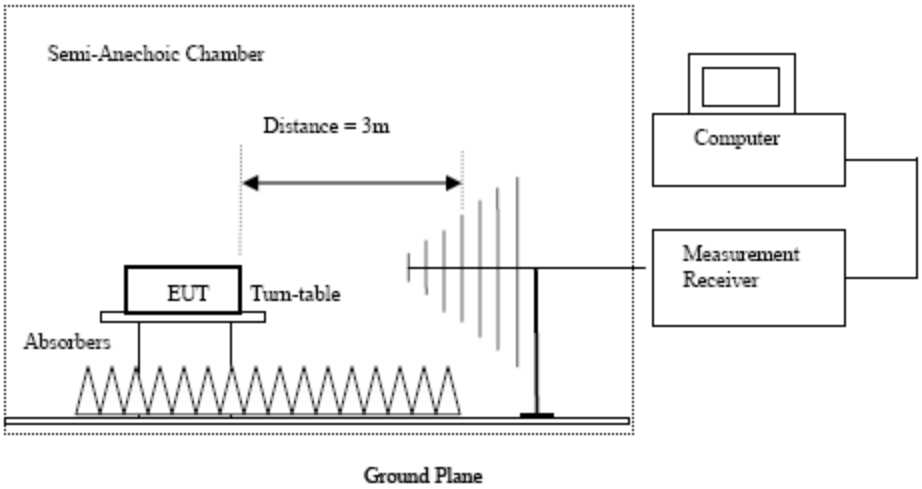
Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* The Hong Kong Standards and Testing Centre Ltd.

FCC Test Firm Registration Number 723883 Designation Number HK0001

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

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Result of Tx mode (2402.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4804.0	3.7	32.1	35.8	74.0	38.2	Horizontal
7206.0	2.9	38.6	41.5	74.0	32.5	Horizontal
9608.0	-1.1	41.3	40.2	74.0	33.8	Horizontal
12010.0	-3.2	43.5	40.3	74.0	33.7	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4804.0	-5.1	32.1	27.0	54.0	27.0	Horizontal
7206.0	-4.3	38.6	34.3	54.0	19.7	Horizontal
9608.0	-8.7	41.3	32.6	54.0	21.4	Horizontal
12010.0	-9.1	43.5	34.4	54.0	19.6	Horizontal

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Result of Tx mode (2440.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2440.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4880.0	3.3	32.1	35.4	74.0	38.6	Horizontal
7320.0	2.7	38.6	41.3	74.0	32.7	Horizontal
9760.0	-1.3	41.3	40.0	74.0	34.0	Horizontal
12200.0	-4.1	43.5	39.4	74.0	34.6	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4880.0	-3.7	32.1	28.4	54.0	25.6	Horizontal
7320.0	-4.2	38.6	34.4	54.0	19.6	Horizontal
9760.0	-4.3	41.3	37.0	54.0	17.0	Horizontal
12200.0	-3.6	43.5	39.9	54.0	14.1	Horizontal

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Result of Tx mode (2480.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4960.0	3.3	32.2	35.5	74.0	38.5	Horizontal
7440.0	2.9	38.6	41.5	74.0	32.5	Horizontal
9920.0	-1.3	42.1	40.8	74.0	33.2	Horizontal
12400.0	-4.5	44.1	39.6	74.0	34.4	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4960.0	-3.3	32.2	28.9	54.0	25.1	Horizontal
7440.0	-3.8	38.6	34.8	54.0	19.2	Horizontal
9920.0	-4.1	42.1	38.0	54.0	16.0	Horizontal
12400.0	-5.1	44.1	39.0	54.0	15.0	Horizontal

Remarks:
No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
* Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 9kHz-30MHz 3.3dB
30MHz -1GHz 4.6dB
1GHz -26GHz 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Band edge Emissions Measurement:

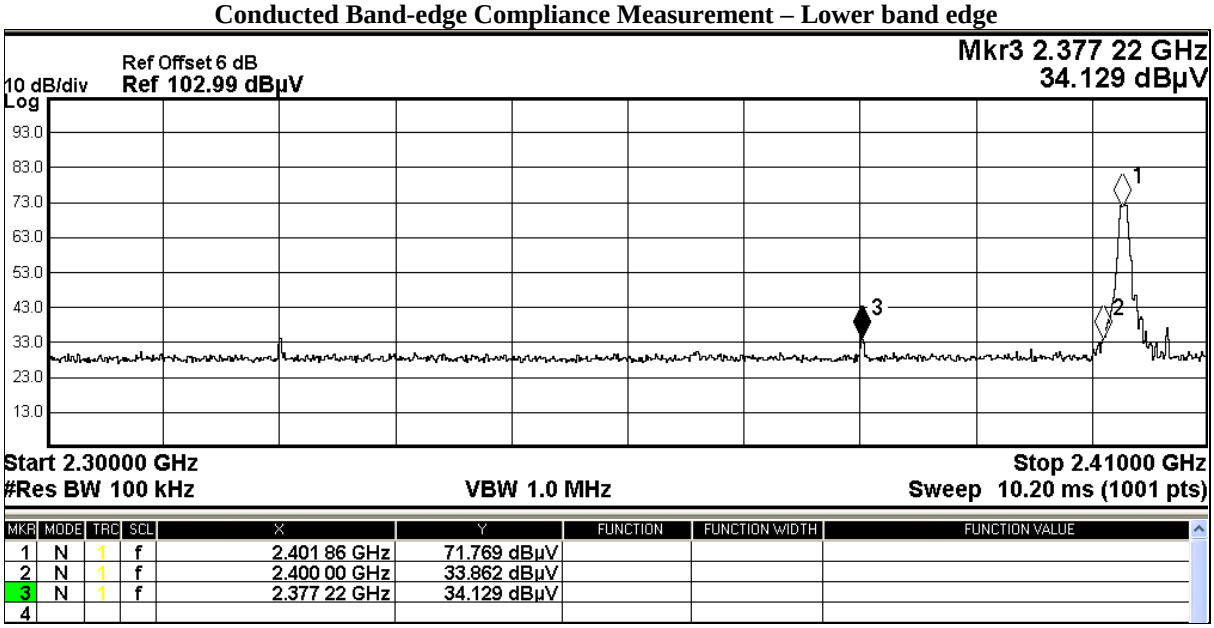
Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Limit：

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Frequency Range [MHz]	Conducted Emission Attenuated below the Fundamental [dB]
2400 – Lowest Fundamental (2402)	37.9

Conducted Band-edge Compliance Measurement – Lower band edge



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 86 GHz	71.769 dBµV			
2	N	1	f	2.400 00 GHz	33.862 dBµV			
3	N	1	f	2.377 22 GHz	34.129 dBµV			
4								

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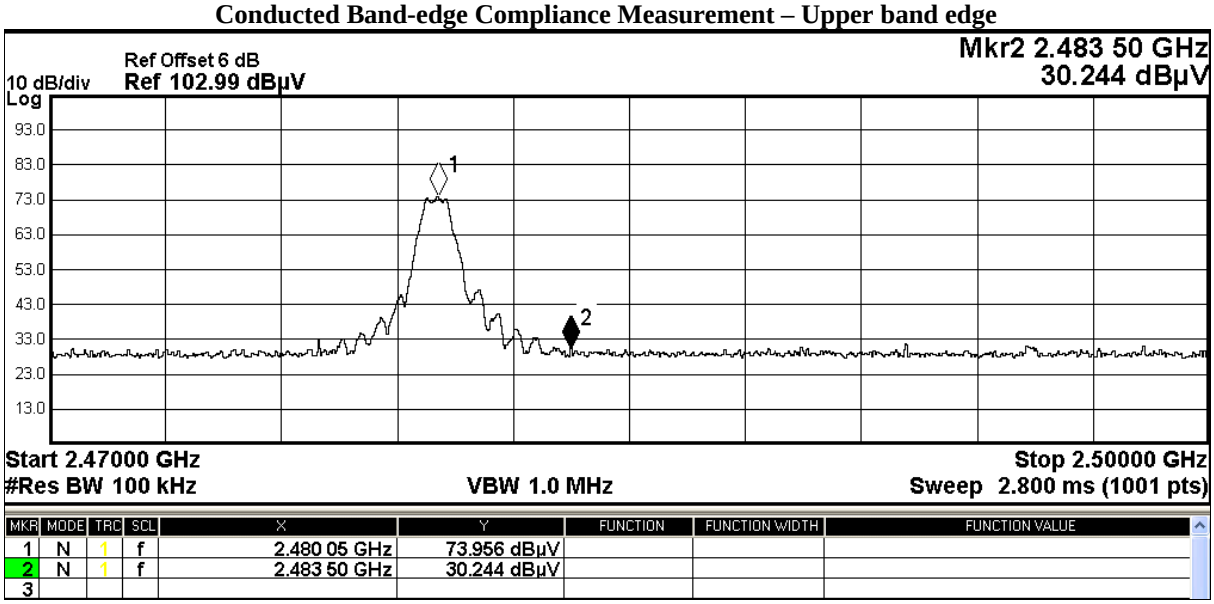
Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range [MHz]	Conducted Emission Attenuated below the Fundamental [dB]
2483.5 - Highest Fundamental (2480)	43.7

Conducted Band-edge Compliance Measurement – Upper band edge



Radiated Emissions Band-edge and Restricted Band Result:

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2377.2	7.6	27.9	35.5	74.0	38.5	Horizontal
2484.0	4.7	27.9	32.6	74.0	41.4	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2377.2	2.4	27.9	30.3	54.0	23.7	Horizontal
2484.0	0.5	27.9	28.4	54.0	25.6	Horizontal

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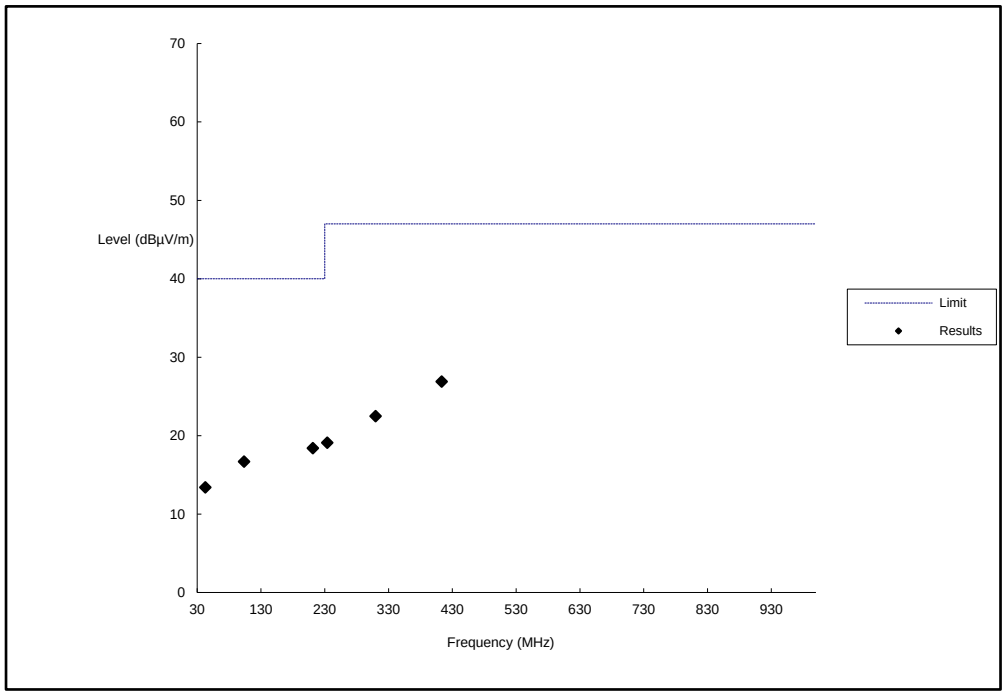
Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Bluetooth Communication mode (30MHz – 1GHz): Pass
Please refer to the following table for result details(The data is the worst cases)



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Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
42.7	Vertical	13.4	40.0	4.7	150
103.4	Vertical	16.7	43.5	6.8	150
211.4	Horizontal	18.4	43.5	8.3	150
234.0	Horizontal	19.1	43.5	9.0	200
309.7	Horizontal	22.5	46.0	13.3	200
413.2	Horizontal	26.9	46.0	22.1	200

Remarks:
Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB
Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

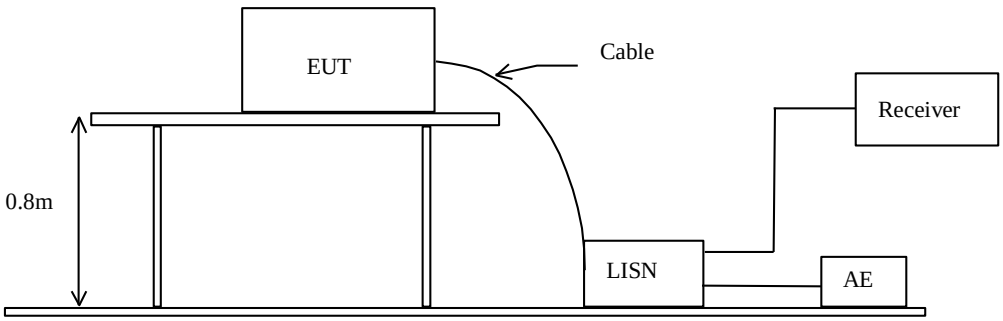
Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2013
Test Date:	2018-05-29
Mode of Operation:	Bluetooth Communication mode with charging function
Test Voltage:	120Va.c. 60Hz

Test Method:

The test was performed in accordance with ANSI ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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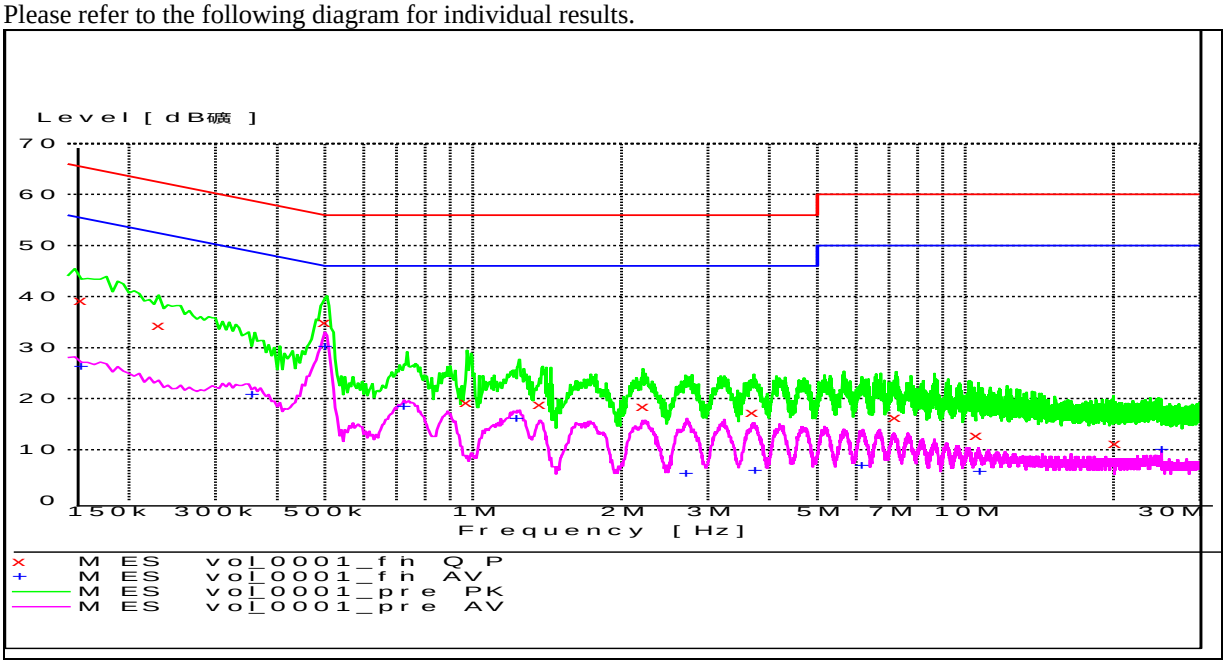
Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth Communication mode with charging function (L & N): PASS
Please refer to the following diagram for individual results.



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Results of Bluetooth Communication mode with charging function (L & N): PASS

MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.160000	39.20	9.9	66	26.3	L1	GND
0.230000	34.30	9.9	62	28.1	L1	GND
0.500000	34.90	10.0	56	21.1	L1	GND
0.970000	19.20	9.8	56	36.8	N	GND
1.365000	18.80	9.9	56	37.2	L1	GND
2.220000	18.40	10.2	56	37.6	L1	GND
3.700000	17.30	10.4	56	38.7	L1	GND
7.200000	16.30	10.5	60	43.7	L1	GND
10.565000	12.80	10.4	60	47.2	L1	GND
20.205000	11.20	10.8	60	48.8	L1	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.160000	26.20	9.9	56	29.3	L1	GND
0.355000	20.90	10.0	49	27.9	L1	GND
0.500000	30.20	10.0	46	15.8	L1	GND
0.725000	18.50	9.9	46	27.5	L1	GND
1.225000	16.00	9.9	46	30.0	N	GND
2.715000	5.40	10.3	46	40.6	L1	GND
3.740000	6.00	10.4	46	40.0	L1	GND
6.155000	6.90	10.6	50	43.1	L1	GND
10.710000	5.70	10.4	50	44.3	L1	GND
25.060000	10.10	10.8	50	39.9	L1	GND

Remarks:
Calculated measurement uncertainty (0.15MHz – 30MHz): 3.2dB
-*- Emission(s) that is far below the corresponding limit line.

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3.1.3 Power Spectral Density

Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirement:	FCC 47CFR 15.247(e)
Test Method:	ANSI C63.10:2013
Test Date:	2018-05-31
Mode of Operation:	Tx mode

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10kHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measurement was done at RBW = 10kHz, correction factor of the result = 10 Log (3 kHz/10 kHz) = -5.2dB

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:
The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of Tx Mode GFSK (Tx:2402MHz to 2480MHz) : Pass (Tx Unit)
Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-42.3	**8dBm**
2440.0	-41.4	**8dBm**
2480.0	-44.8	**8dBm**

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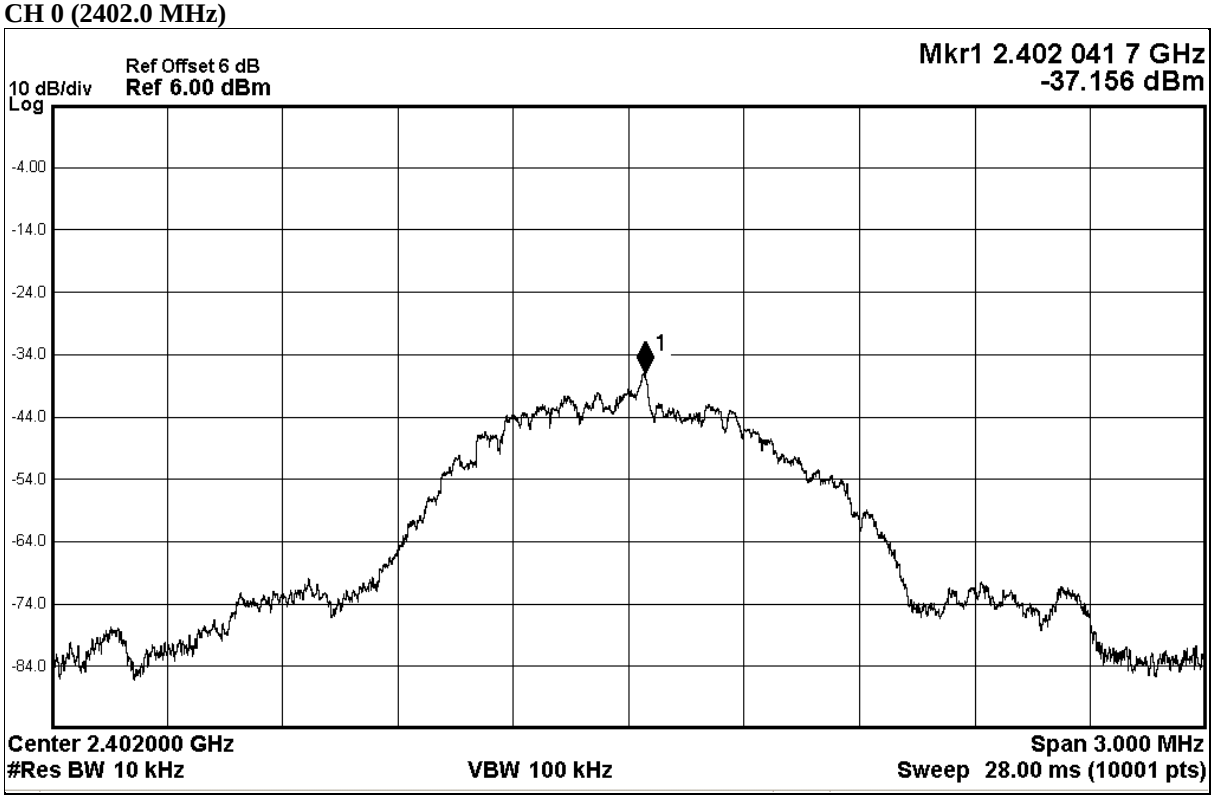
Tx mode GFSK (Tx: 2402MHz to 2480MHz)
CH 0 (2402.0 MHz)



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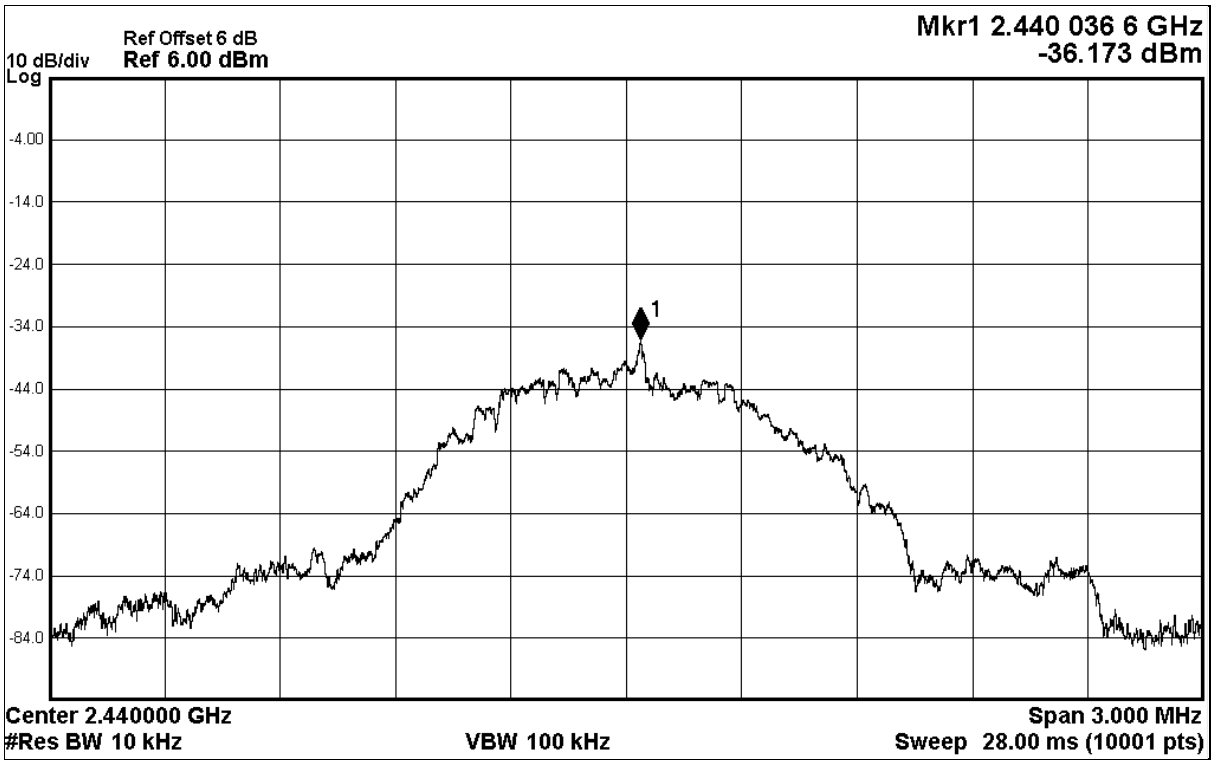
CH 19 (2440.0 MHz)



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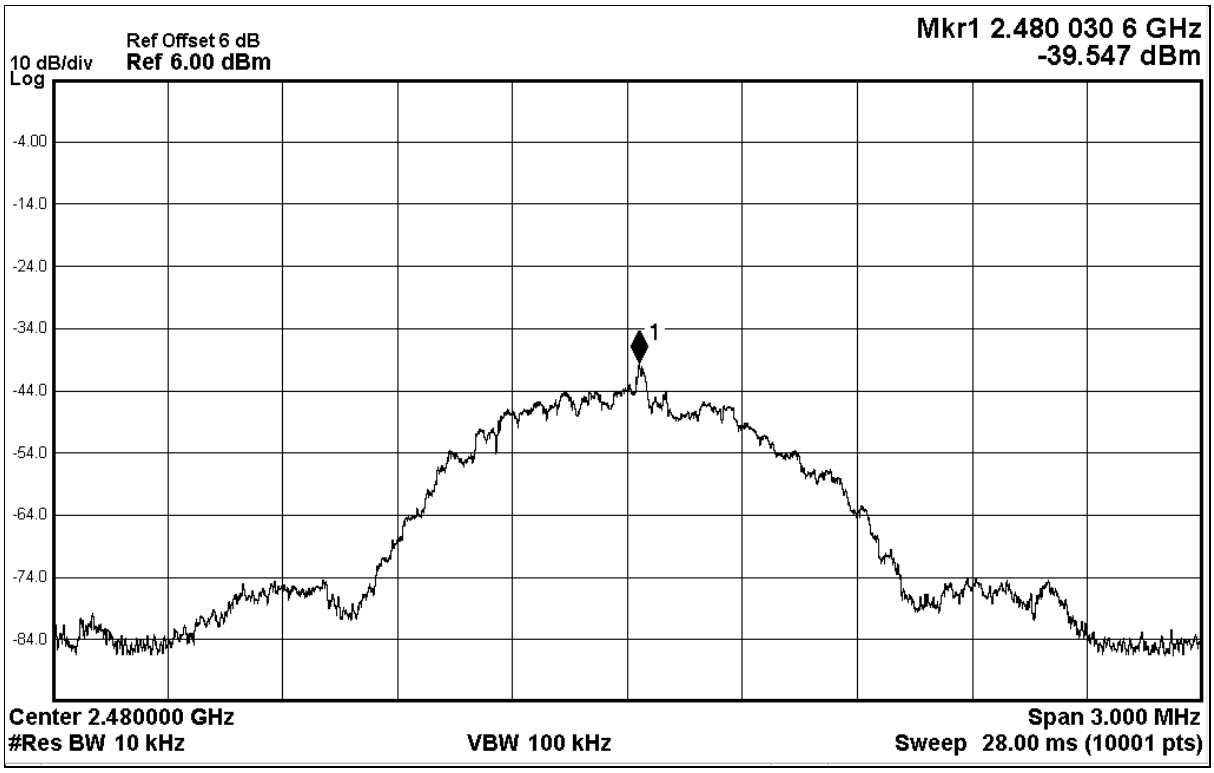
CH 39 (2480.0 MHz)



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3.1.4 6dB Spectrum Bandwidth Measurement

Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirement:	FCC 47CFR 15.247(a)(2)
Test Method:	ANSI C63.10:2013
Test Date:	2018-05-29
Mode of Operation:	Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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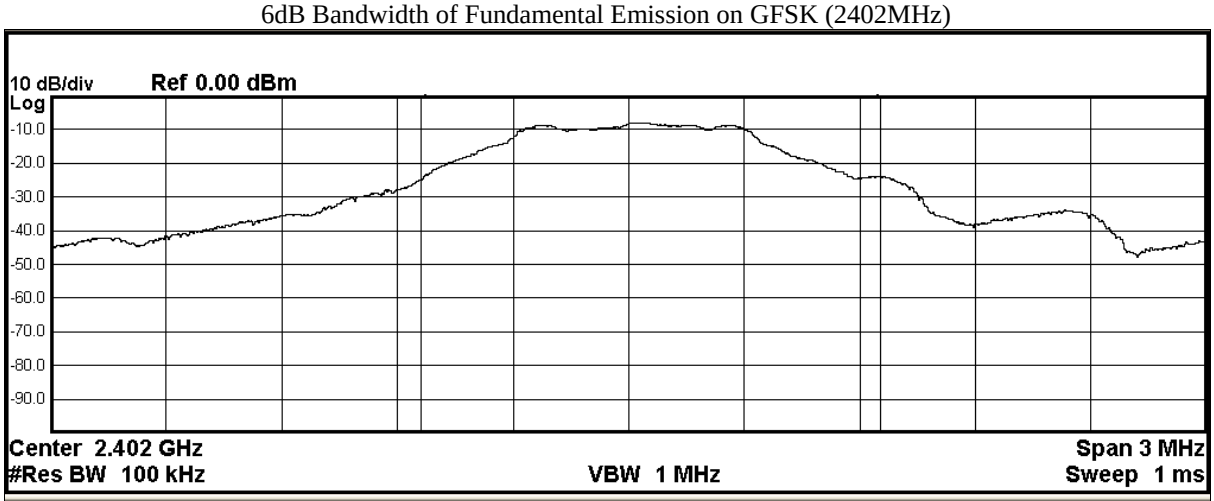
Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2402.0	658.9	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2402MHz)



Occupied Bandwidth	1.1880 MHz	Total Power	-0.97 dBm
Transmit Freq Error	57.526 kHz	OBW Power	99.00 %
x dB Bandwidth	658.9 kHz	x dB	-6.00 dB

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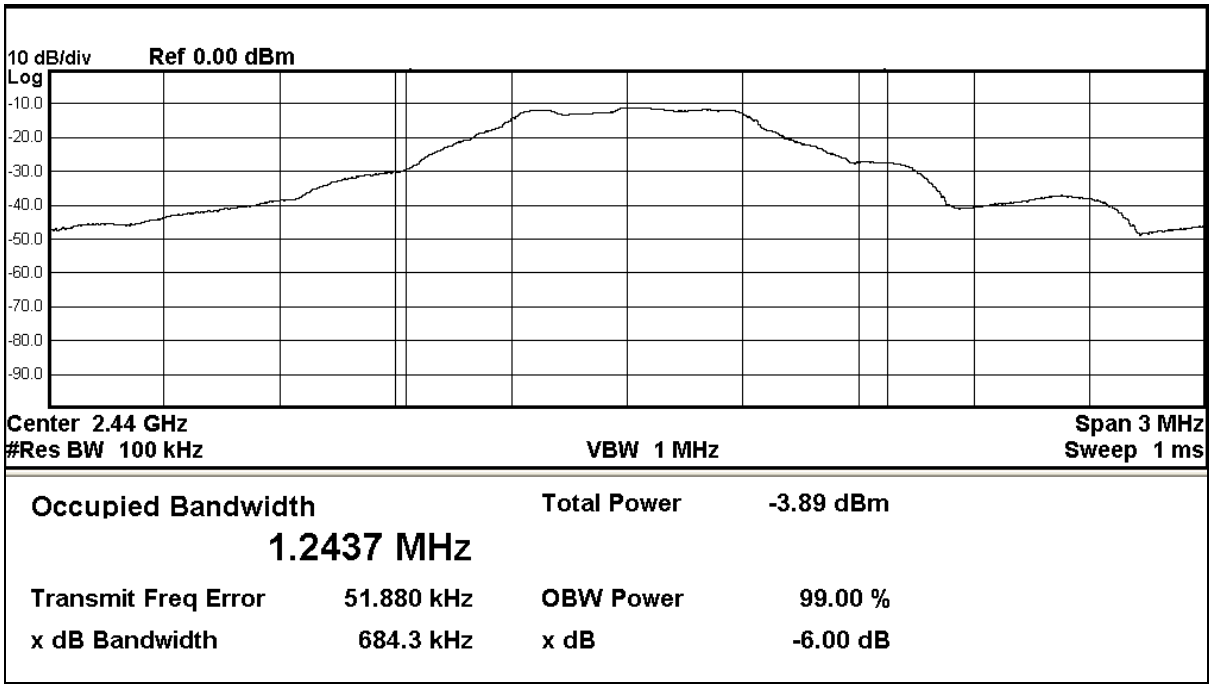
Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2440.0	684.3	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2440MHz)



Occupied Bandwidth	1.2437 MHz	Total Power	-3.89 dBm
Transmit Freq Error	51.880 kHz	OBW Power	99.00 %
x dB Bandwidth	684.3 kHz	x dB	-6.00 dB

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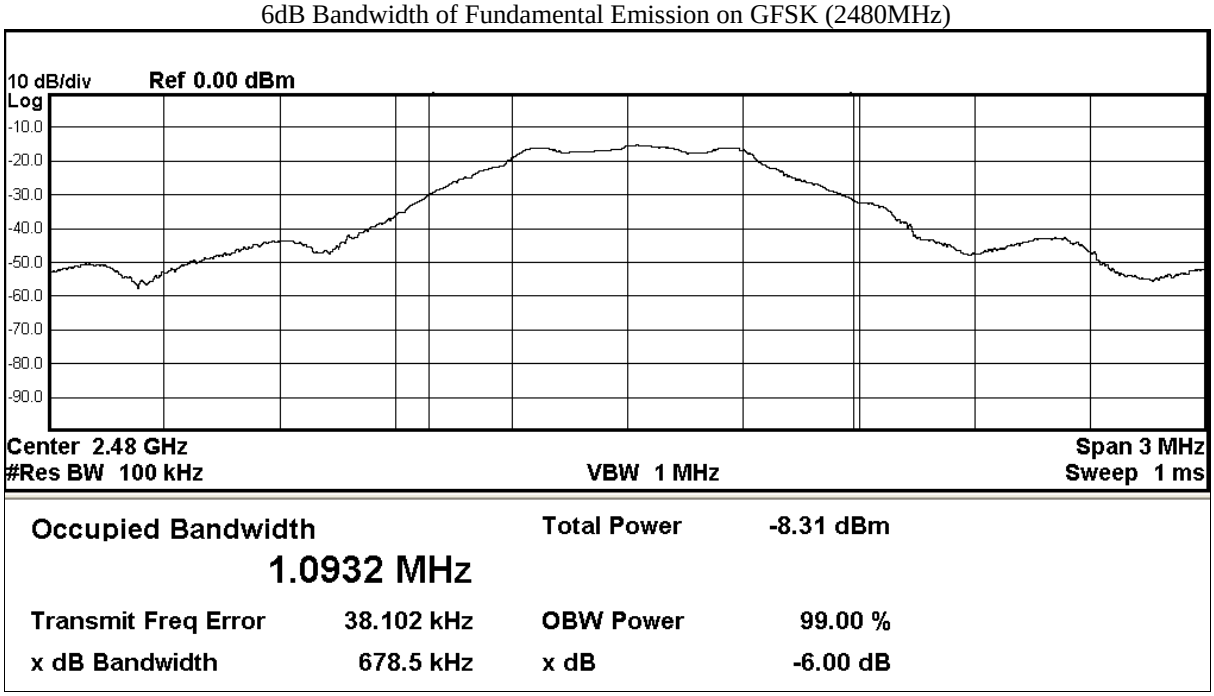
Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2480.0	678.5	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2480MHz)



Occupied Bandwidth	1.0932 MHz	Total Power	-8.31 dBm
Transmit Freq Error	38.102 kHz	OBW Power	99.00 %
x dB Bandwidth	678.5 kHz	x dB	-6.00 dB

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3.1.5 Antenna Requirement

Ambient temperature 25°C Relative humidity 51% Atmospheric Pressure: 101kPa

Test Requirements: § 15.203

Test Specification:

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 shall be considered sufficient to comply with the provisions of this section. 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.

Test Results:

This is Meander Line antenna. There is no external antenna, the antenna gain = 0dBi. User is unable to remove or changed the Antenna.

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2018/01/24	2019/01/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM354	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00142073	2018/03/29	2020/03/29
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2018/06/01	2019/06/01
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2019/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2018/05/13	2019/05/13
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2018/05/11	2020/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2018/05/11	2020/05/11
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/04/16	2020/04/16
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2017/10/14	2018/10/14

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2017/11/29	2018/11/29
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	2018/06/01	2019/06/01
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2018/01/11	2019/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2017/02/02	2022/02/02
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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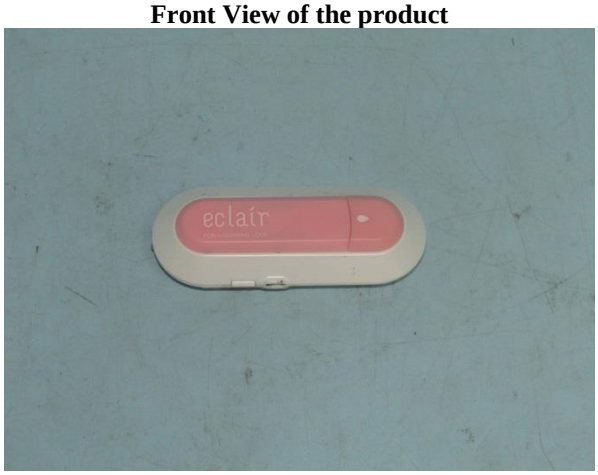
Appendix B

Photographs of EUT

Front View of the product



Rear View of the product

Rear View of the product

Rear View of the product

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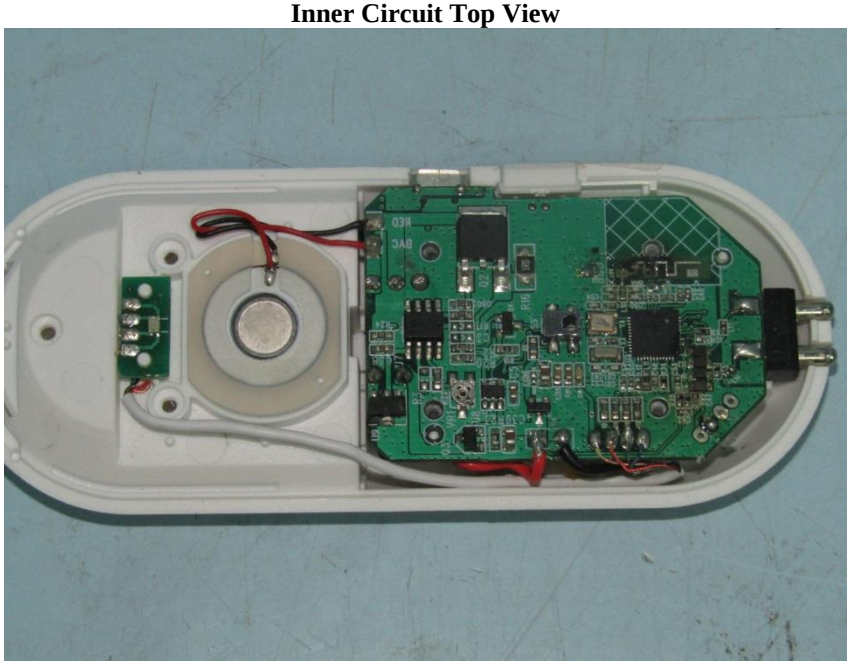
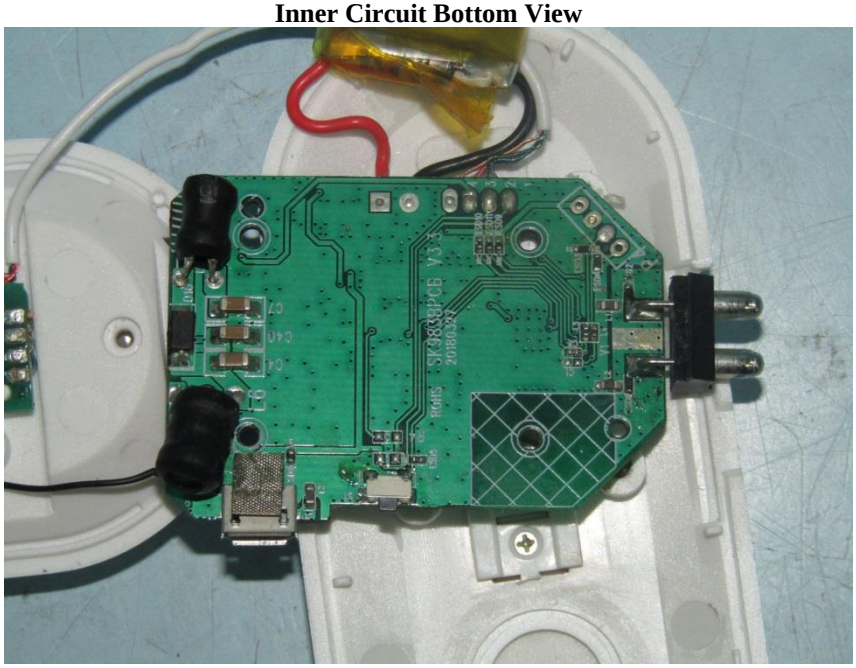
Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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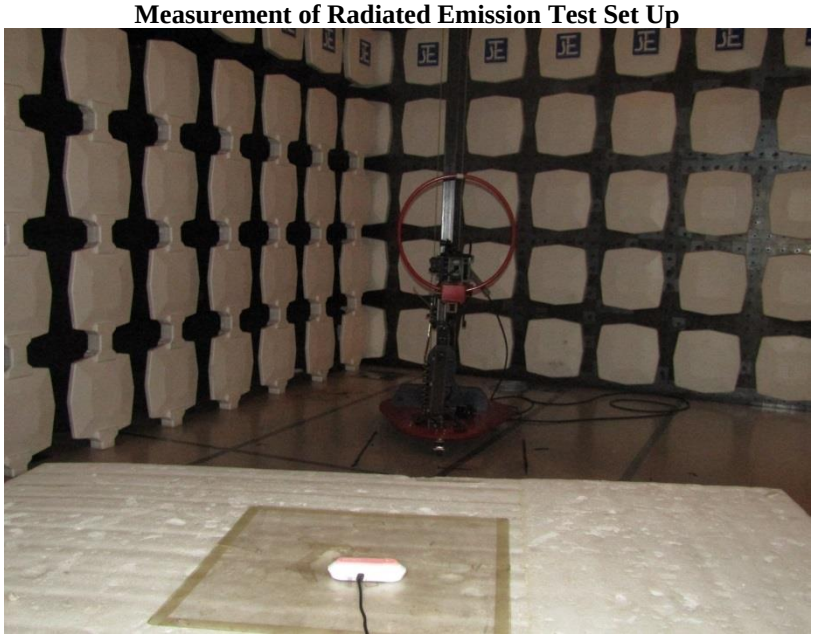
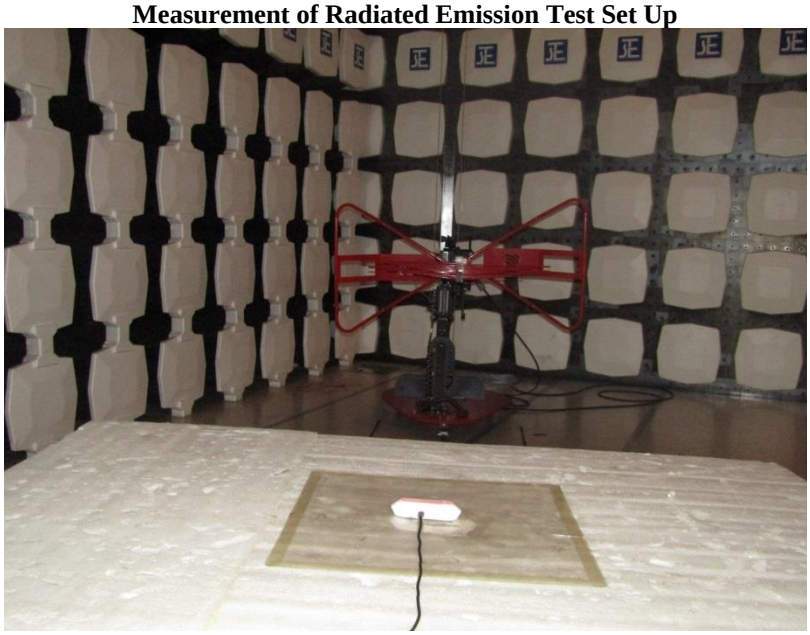
Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



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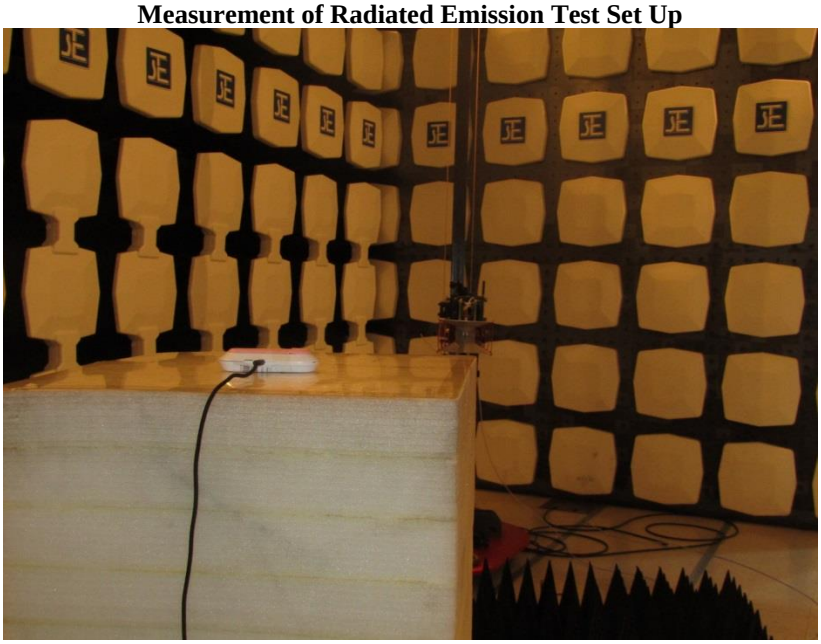
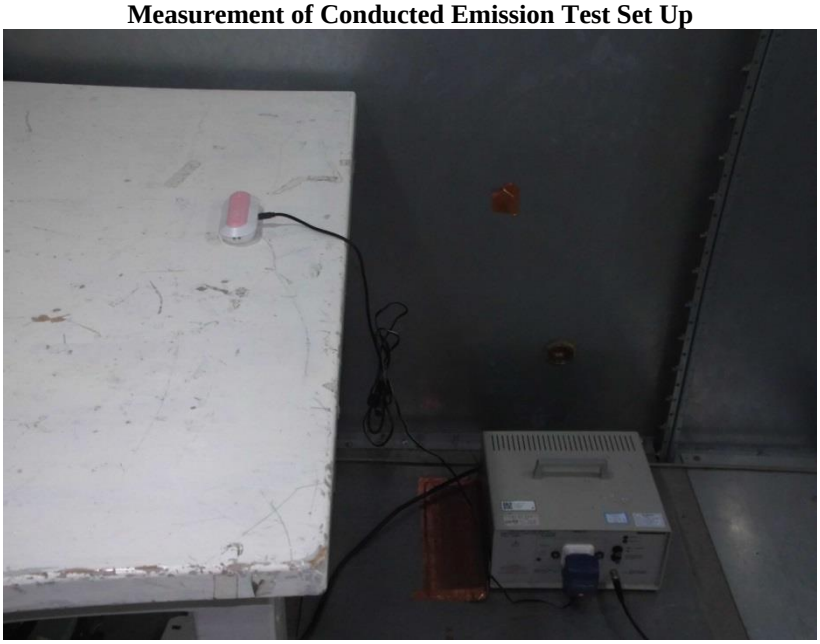
Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



******* End of Test Report *******

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