

TEST REPORT

Reference No...... : WTD23D05110613W001
FCC ID : 2BBF7-STX2436BT
Applicant..... : STETSOM ELECTRONICS USA INC.
Address..... : 66 WEST FLAGLER ST STE 900/7434, MIAMI, FLORIDA, USA
Manufacturer : STETSOM ELECTRONICS USA INC.
Address..... : 66 WEST FLAGLER ST STE 900/7434, MIAMI, FLORIDA, USA
Product..... : Digital Audio Processor
Model(s) : STETSOM STX2436BT, TIMPANO TPT-SP4BT
Standards..... : FCC 47CFR Part 15.247
Date of Receipt sample : 2023-05-25
Date of Test : 2023-05-25 to 2023-06-02
Date of Issue..... : 2023-06-07
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:
Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Tel: +86-769-2267 6998
Fax: +86-769-2267 6828

Compiled by:

Estel Qian

Estel Qian / Project Engineer

Approved by:

Deval Qin
A circular blue stamp with the text "WALTEK SERVICES CO., LTD." around the perimeter and "TEST REPORT" at the bottom. In the center is a stylized logo with a checkmark and the word "WALTEK".

Deval Qin / Designated Reviewer

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD23D05110613W001	2023-05-25	2023-05-25 to 2023-06-02	2023-06-07	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product: Digital Audio Processor
Model(s): STETSOM STX2436BT, TIMPANO TPT-SP4BT
Model Description: Only the model's name is different.
Model STETSOM STX2436BT was tested in this report.

4.2 Details of E.U.T.

Operation Frequency: 2402~2480MHz
Max. RF output power: -6.82dBm
Type of Modulation: GFSK
Antenna installation: PCB Printed Antenna
Antenna Gain: 3.3dBi
Ratings: 10V ~ 15V DC

4.3 Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Mode

Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	BT BLE	1 Mbps	0/19/39	TX
Power Spectral Density	BT BLE	1 Mbps	0/19/39	TX
6dB Bandwidth	BT BLE	1 Mbps	0/19/39	TX
Band Edge	BT BLE	1 Mbps	0/19/39	TX
Transmitter Spurious Emissions	BT BLE	1 Mbps	0/19/39	TX

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions (SAEMC)						
1	Spectrum Analyzer	R&S	FSP30	100091	2023-04-24	2024-04-23
2	Amplifier	Agilent	8447D	2944A10178	2022-08-01	2023-07-31
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2022-08-07	2023-08-06
4	Coaxial Cable	Top	TYPE16(13M)	-	2023-04-24	2024-04-23
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2023-02-02	2024-02-01
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2022-07-29	2023-07-28
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2022-08-08	2023-08-07
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2023-02-02	2024-02-01
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2022-07-29	2023-07-28
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2023-04-24	2024-04-23
11	Test software	EZ-EMC	RA-03A1-1	-	N/A	N/A
3m Semi-anechoic Chamber for Radiation Emissions (TDK)						
1	Test Receiver	R&S	ESCI	101296	2023-04-24	2024-04-23
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2022-10-31	2023-10-30
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2023-05-07	2024-05-06
4	Amplifier	ANRITSU	MH648A	M43381	2023-04-24	2024-04-23
5	Cable	HUBER+SUHNER	CBL2	525178	2023-04-24	2024-04-23
6	Test software	EZ-EMC	RA-03A1-1	-	N/A	N/A
RF Conducting						
1	Spectrum Analyzer	R&S	FSP40	100501	2022-08-01	2023-07-31
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022-08-01	2023-07-31

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	$\pm 1 \times 10^{-7}$ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7 dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

7 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

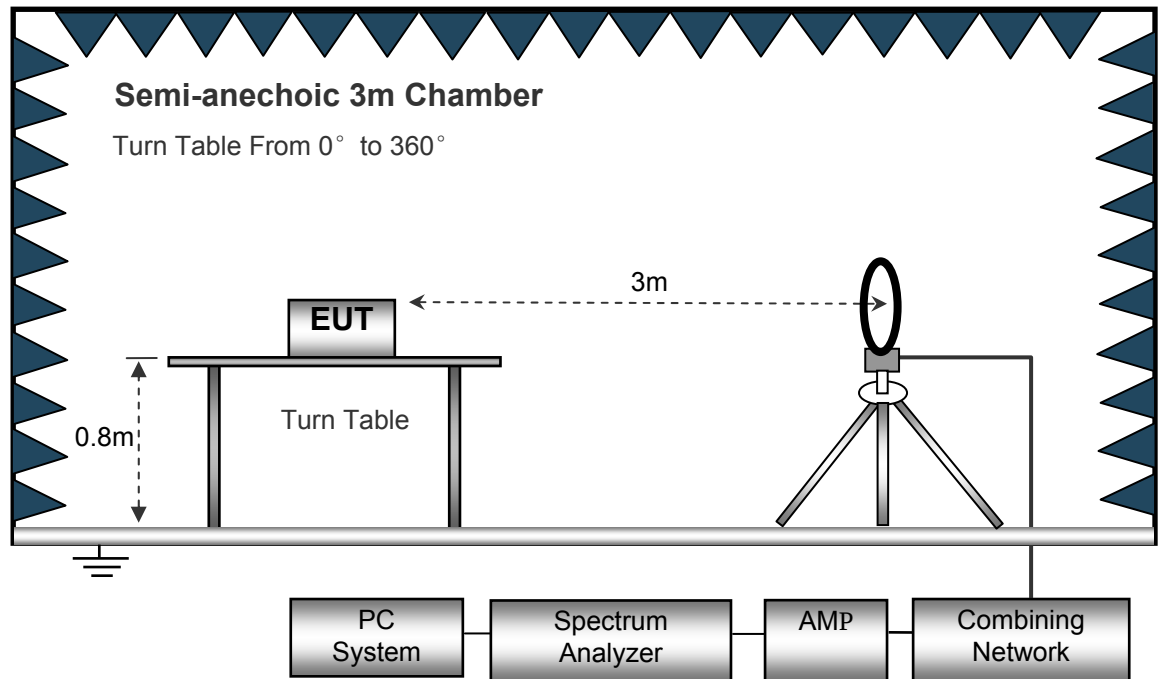
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

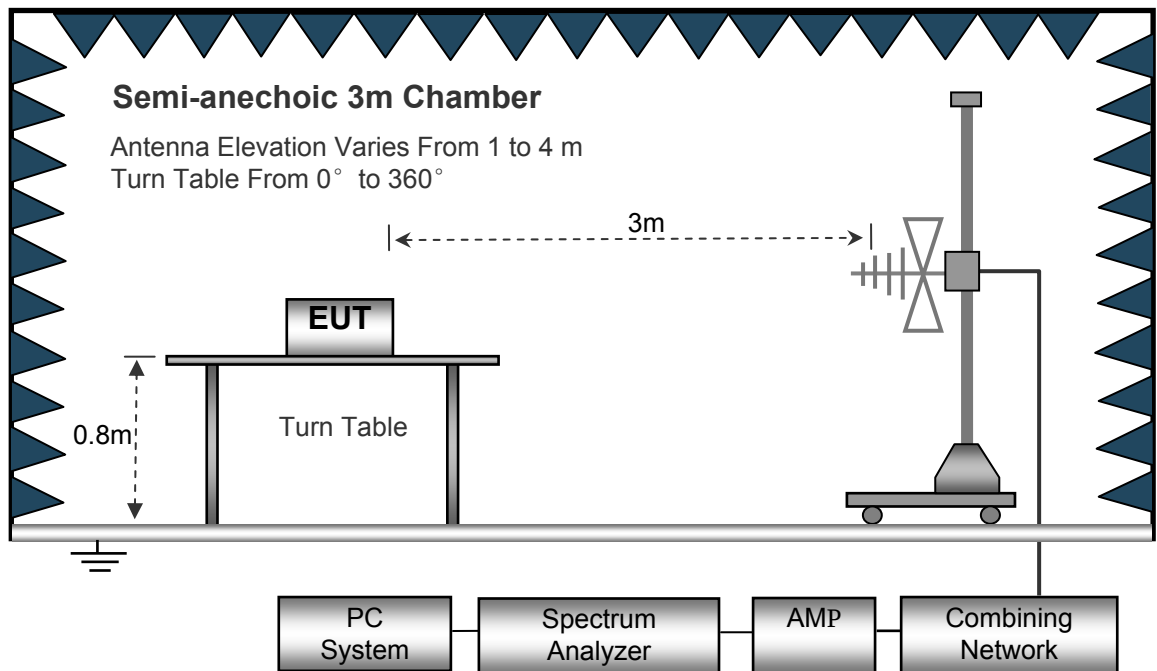
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

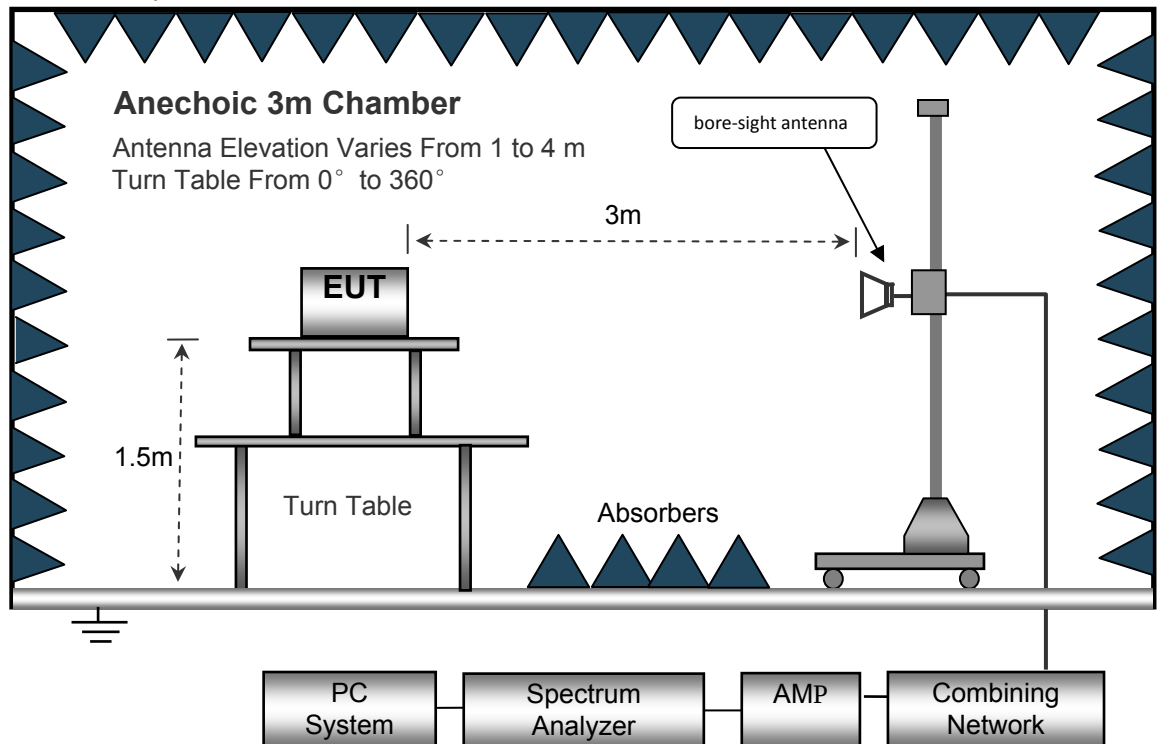
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 3MHz
 Detector Ave.
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.6 Summary of Test Results

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel 2402MHz									
215.62	35.67	QP	269	1.1	H	-13.35	22.32	46.00	-23.68
215.62	41.57	QP	278	1.8	V	-13.35	28.22	46.00	-17.78
4804.00	49.89	PK	154	1.4	V	-1.06	48.83	74.00	-25.17
4804.00	42.75	Ave	154	1.4	V	-1.06	41.69	54.00	-12.31
7206.00	45.22	PK	162	1.7	H	1.33	46.55	74.00	-27.45
7206.00	37.51	Ave	162	1.7	H	1.33	38.84	54.00	-15.16
2347.17	45.05	PK	133	1.0	V	-13.19	31.86	74.00	-42.14
2347.17	38.24	Ave	133	1.0	V	-13.19	25.05	54.00	-28.95
2366.34	42.49	PK	318	1.2	H	-13.14	29.35	74.00	-44.65
2366.34	38.30	Ave	318	1.2	H	-13.14	25.16	54.00	-28.84
2492.29	42.15	PK	129	1.2	V	-13.08	29.07	74.00	-44.93
2492.29	37.93	Ave	129	1.2	V	-13.08	24.85	54.00	-29.15

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
GFSK Middle Channel 2440MHz									
215.62	35.17	QP	298	1.6	H	-13.35	21.82	46.00	-24.18
215.62	42.23	QP	200	1.2	V	-13.35	28.88	46.00	-17.12
4880.00	43.46	PK	335	1.2	V	-0.62	42.84	74.00	-31.16
4880.00	41.67	Ave	335	1.2	V	-0.62	41.05	54.00	-12.95
7320.00	44.14	PK	354	1.6	H	2.21	46.35	74.00	-27.65
7320.00	38.66	Ave	354	1.6	H	2.21	40.87	54.00	-13.13
2323.98	46.88	PK	335	1.9	V	-13.19	33.69	74.00	-40.31
2323.98	39.53	Ave	335	1.9	V	-13.19	26.34	54.00	-27.66
2354.24	43.39	PK	306	1.1	H	-13.14	30.25	74.00	-43.75
2354.24	37.25	Ave	306	1.1	H	-13.14	24.11	54.00	-29.89
2490.53	43.19	PK	337	1.4	V	-13.08	30.11	74.00	-43.89
2490.53	37.67	Ave	337	1.4	V	-13.08	24.59	54.00	-29.41

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
GFSK High Channel 2480MHz									
215.62	36.41	QP	359	1.2	H	-13.35	23.06	46.00	-22.94
215.62	38.46	QP	185	1.7	V	-13.35	25.11	46.00	-20.89
4960.00	43.61	PK	245	1.6	V	-0.24	43.37	74.00	-30.63
4960.00	42.53	Ave	245	1.6	V	-0.24	42.29	54.00	-11.71
7440.00	44.50	PK	61	1.7	H	2.84	47.34	74.00	-26.66
7440.00	36.29	Ave	61	1.7	H	2.84	39.13	54.00	-14.87
2314.78	46.21	PK	138	1.4	V	-13.19	33.02	74.00	-40.98
2314.78	39.53	Ave	138	1.4	V	-13.19	26.34	54.00	-27.66
2356.14	44.69	PK	121	1.4	H	-13.14	31.55	74.00	-42.45
2356.14	37.54	Ave	121	1.4	H	-13.14	24.40	54.00	-29.60
2491.29	42.08	PK	341	1.2	V	-13.08	29.00	74.00	-45.00
2491.29	38.38	Ave	341	1.2	V	-13.08	25.30	54.00	-28.70

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Band Edge Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Regulation 15.247 (d), 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the

Test Limit: the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

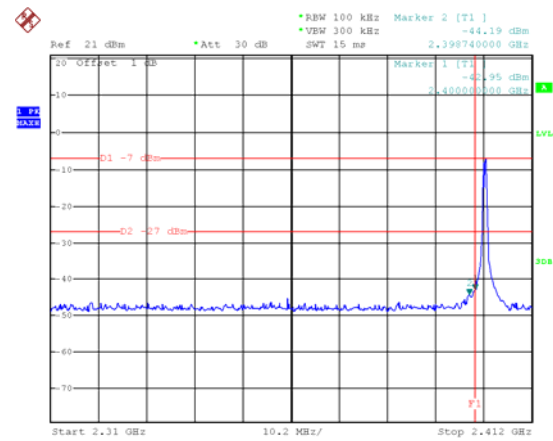
Test Mode: Transmitting

8.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

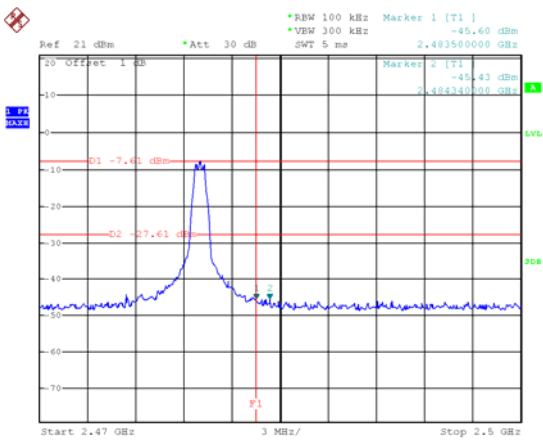
8.2 Test Result

Test result plots shown as follows:
BLE: Band edge-left side



Date: 1.JUN.2023 11:48:00

BLE: Band edge-right side



Date: 1.JUN.2023 11:50:28

9 6 dB Bandwidth Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10:2013

KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Test Limit: §15.247(a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Mode: Transmitting

9.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. 6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

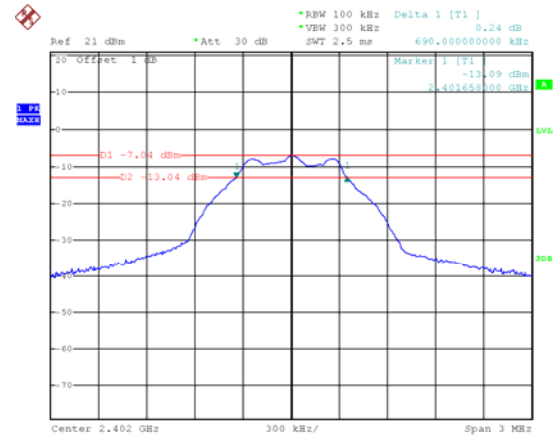
9.2 Test Result:

Operation mode	Test Channel	6dB Bandwidth (MHz)
BLE	Channel 0	0.690
	Channel 19	0.708
	Channel 39	0.684

Note: please refer to next page for test plot.

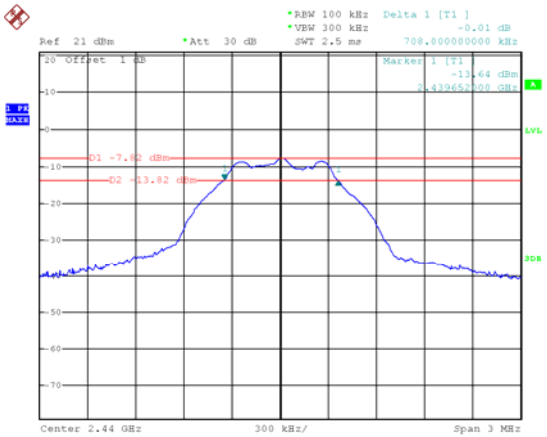
Test result plot:

Mode: TX GFSK channel 0



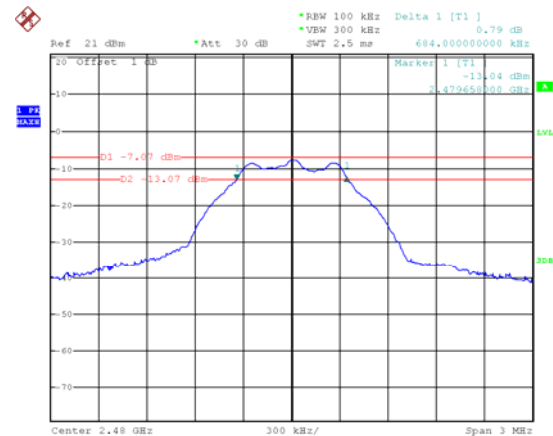
Date: 1.JUN.2023 11:16:42

Mode: TX GFSK channel 19



Date: 1.JUN.2023 11:15:06

Mode: TX GFSK channel 39



Date: 1.JUN.2023 11:12:06

10 Maximum Peak Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(b) The maximum peak conducted output power of the intentional radiator shall not exceed 1W.
Test Mode:	Transmitting

10.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Section 8.3.1.1 RBW $\geq$ DTS bandwidth

Subclause 11.9.1.1 of ANSI C63.10 is applicable.

Section 8.3.1.2 Integrated band power method

For measuring the output power of a device transmitting a wide-band noise-like signal where the peak power amplitude is a statistical parameter, the preferred methodology is to use an integrated average power measurement, as described in 8.3.2. The peak integrated band power method of 11.9.1 in ANSI C63.10 is not applicable.

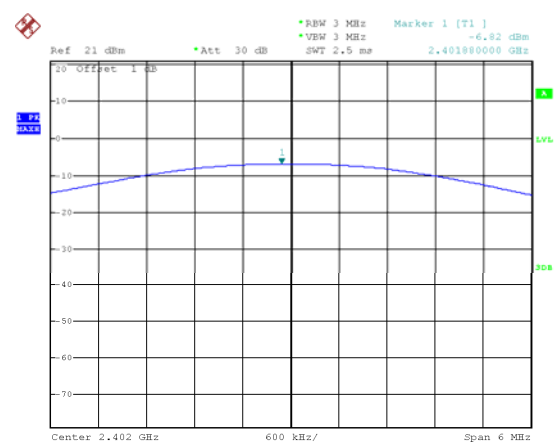
Subclause 11.9.2 of ANSI C63.10 is applicable.

10.2 Test Result:

Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
BLE	Low-2402	-6.82	1W/30dBm
	Middle-2440	-7.46	1W/30dBm
	High-2480	-7.48	1W/30dBm

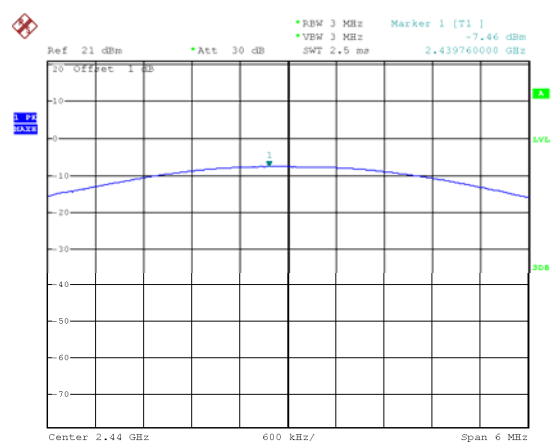
Test Plot

Mode: TX GFSK channel 0



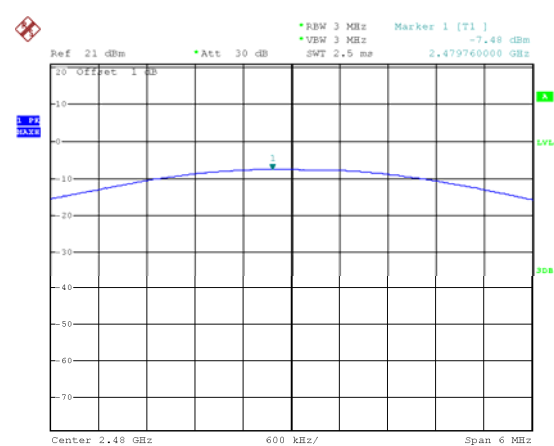
Date: 1.JUN.2023 10:48:56

Mode: TX GFSK channel 19



Date: 1.JUN.2023 10:49:38

Mode: TX GFSK channel 39



Date: 1.JUN.2023 11:02:57

11 Power Spectral density

Test Requirement: FCC 47CFR Part 15 Section 15.247
 Test Method: ANSI C63.10:2013
 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
 §15.247(e)
 Test Limit: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
 Test Mode: Transmitting

11.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 8.4

Subclause 11.10 of ANSI C63.10 is applicable.

Choose the test procedure according to the product type

Peak PSD

Subclause 11.10.2 of ANSI C63.10 is applicable.

AVG PSD

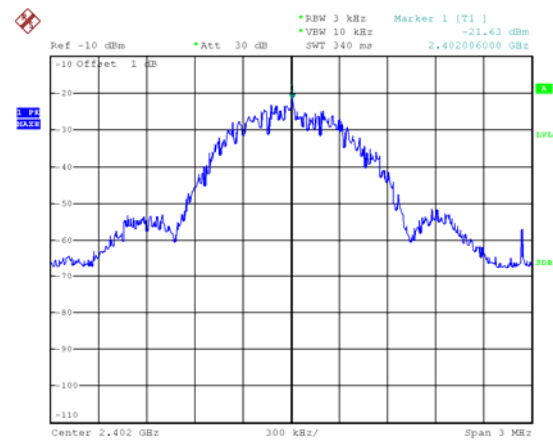
Subclause 11.10.3/4/5/6/7/8 of ANSI C63.10 is applicable.

11.2 Test Result:

Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
BLE	Low-2402	-21.63	8dBm per 3kHz
	Middle-2440	-23.03	8dBm per 3kHz
	High-2480	-22.88	8dBm per 3kHz

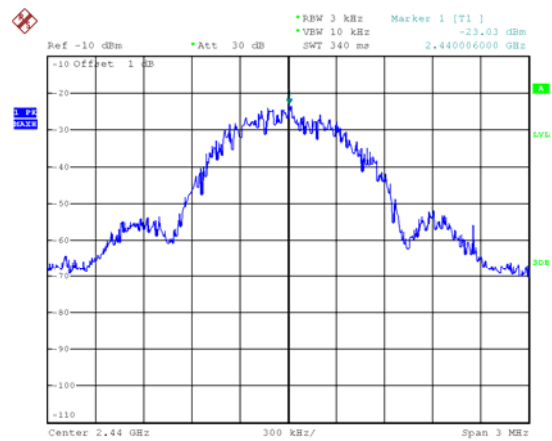
Test Plot

Mode: TX GFSK channel 0



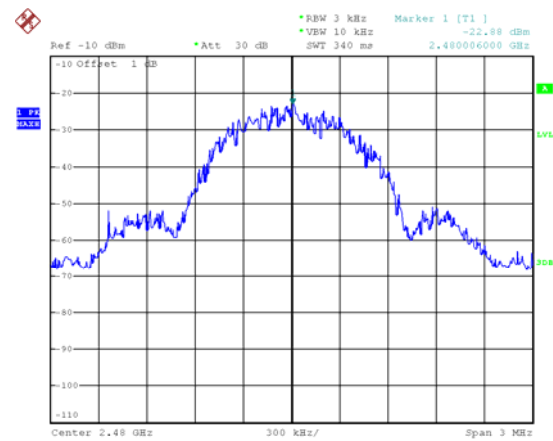
Date: 1.JUN.2023 17:10:44

Mode: TX GFSK channel 19



Date: 1.JUN.2023 17:11:18

Mode: TX GFSK channel 39



Date: 1.JUN.2023 17:12:55

12 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has an integrated antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

13 RF Exposure

Remark: Please refer to MPE test report: WTD23D05110613W002.

14 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-STETSOM STX2436BT-Photos.

=====End of Report=====