

APPLICATION CERTIFICATION FCC Part 15C

On Behalf of

S2E,Inc.

Sports Bluetooth Earphone

Model No.: MEE audio X6, MEE audio X5

FCC ID: 2ABMRX6

Prepared for : S2E,Inc.
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Date of Test : March 21-March 24, 2018
Date of Report : March 24, 2018

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Test Report Certification

Applicant : S2E,Inc.
Manufacturer : S2E,Inc.
EUT Description : Sports Bluetooth Earphone
Model No. : MEE audio X6, MEE audio X5
Brand Name : MEE audio

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2018 ANSI C63.10: 2013

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : March 21-March 24, 2018
Date of Report : March 24, 2018

Test Engineer :

Star Yang

(Star Yang, Engineer)

Prepared by :

Star Yang
(Star Yang, Engineer)

Approved & Authorized Signer :

Sean Liu

(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Model Number	:	MEE audio X6, MEE audio X5 (Note: Above models are identical in schematic, structure and critical components except for model name, So we prepare MEE audio X6 for test.)
Bluetooth version	:	V 4.2
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain(Max)	:	2.64dBi
Antenna type	:	Integral Antenna
Adapter Input Voltage	:	DC 3.7V (Powered by Lithium battery) or DC 5V (Powered by USB port)
Modulation mode	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Hardware version	:	V1.0
Software version	:	V1.0
Applicant	:	S2E, Inc.
Address	:	817 Lawson St. City of Industry, CA 91748
Manufacturer	:	S2E, Inc.
Address	:	817 Lawson St. City of Industry, CA 91748

1.2. Accessory and Auxiliary Equipment

AC/DC Power Adapter (provided by laboratory)	:	Model: TEKA006-0501000UKU
		Input: 100-240V~50/60Hz 0.3A
		Output: DC 5V/1A

1.3. Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 06, 2018	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 06, 2018	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 06, 2018	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 06, 2018	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 06, 2018	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 06, 2018	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 06, 2018	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 06, 2018	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 06, 2018	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 06, 2018	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 06, 2018	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.3	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.4	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.5	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.6	Jan. 06, 2018	1 Year
Temporary antenna connector	NTGS	14AE	N/A	March 21, 2018	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz

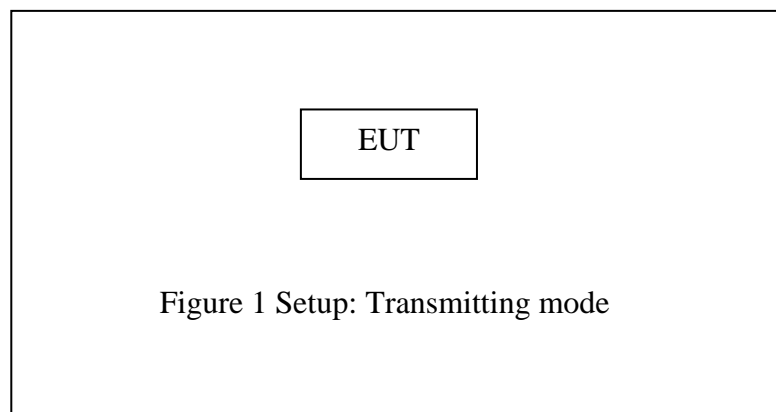
Middle Channel: 2441MHz

High Channel: 2480MHz

Hopping

Note: The equipment under test (EUT) was tested under fully-charged battery.
The Bluetooth has been tested under continuous transmission mode.

3.2. Configuration and peripherals

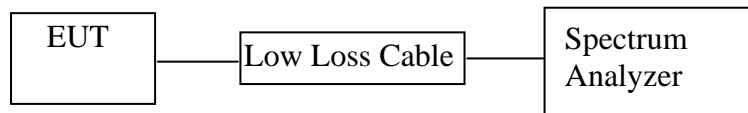


4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

5.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.6. Test Result

Test Lab: Shielding room

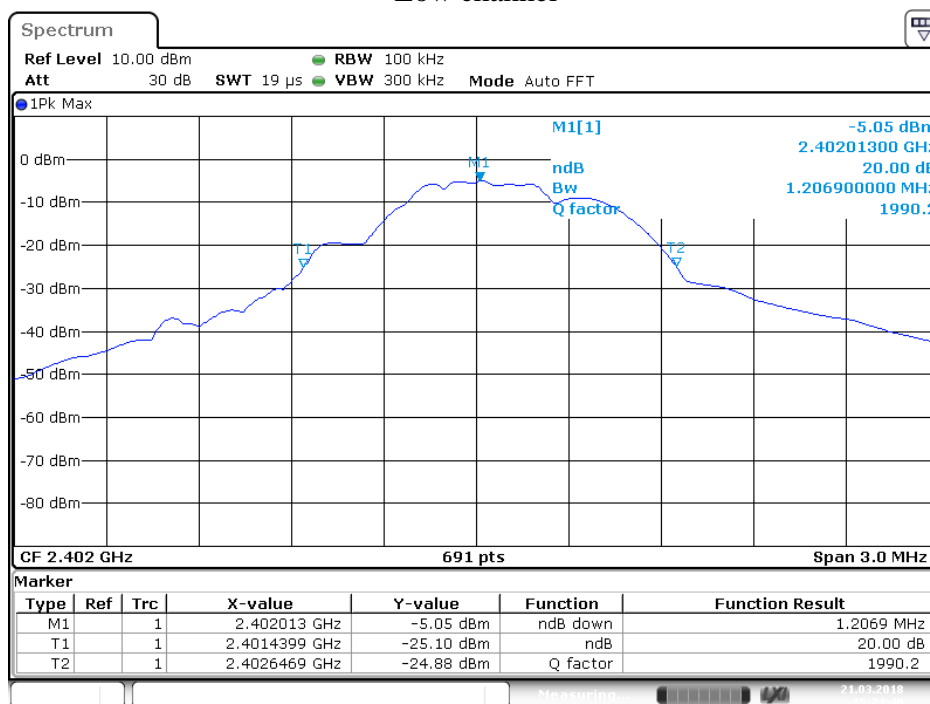
Test Engineer: Star

Channel	Frequency (MHz)	GFSK 20dB Bandwidth (MHz)	$\Pi/4$ -DQPSK 20dB Bandwidth (MHz)	8DPSK 20dB Bandwidth (MHz)	Result
Low	2402	1.207	1.333	1.389	Pass
Middle	2441	1.316	1.402	1.437	Pass
High	2480	1.329	1.402	1.437	Pass

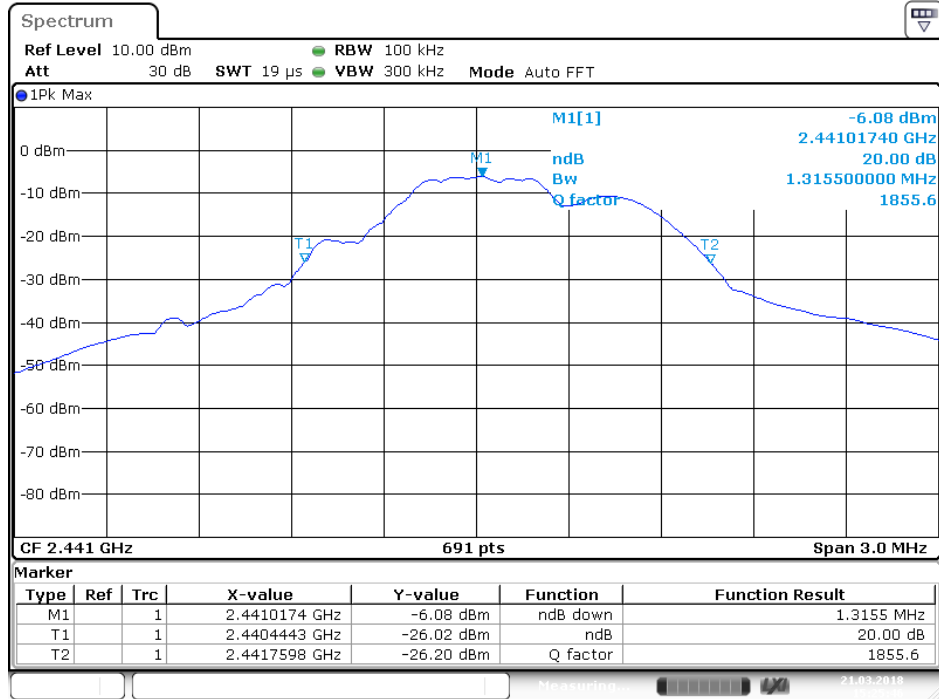
The spectrum analyzer plots are attached as below.

GFSK Mode

Low channel

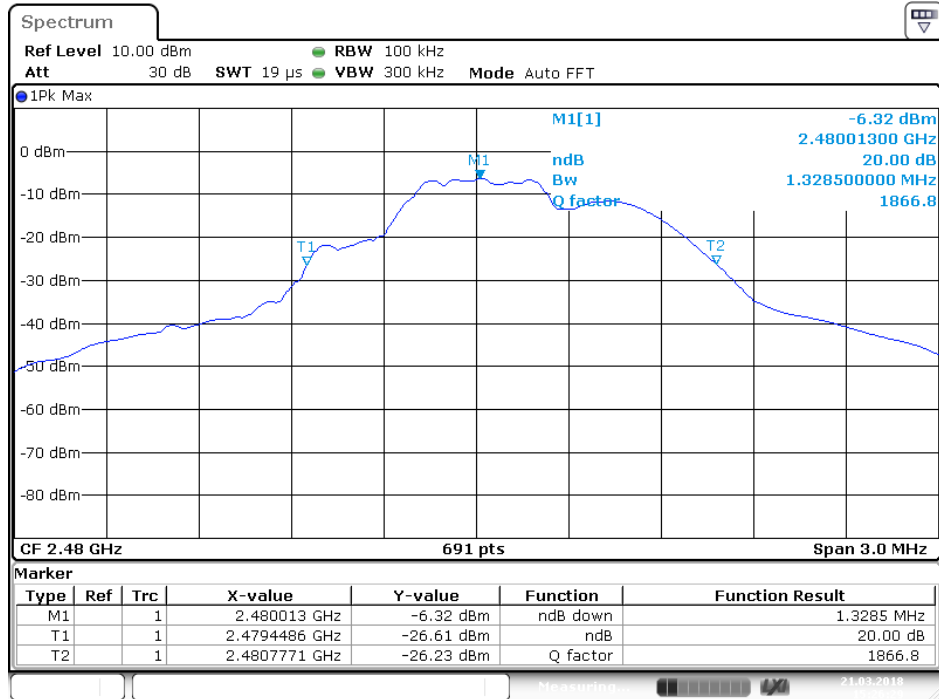


Middle channel



Date: 21.MAR.2018 15:25:46

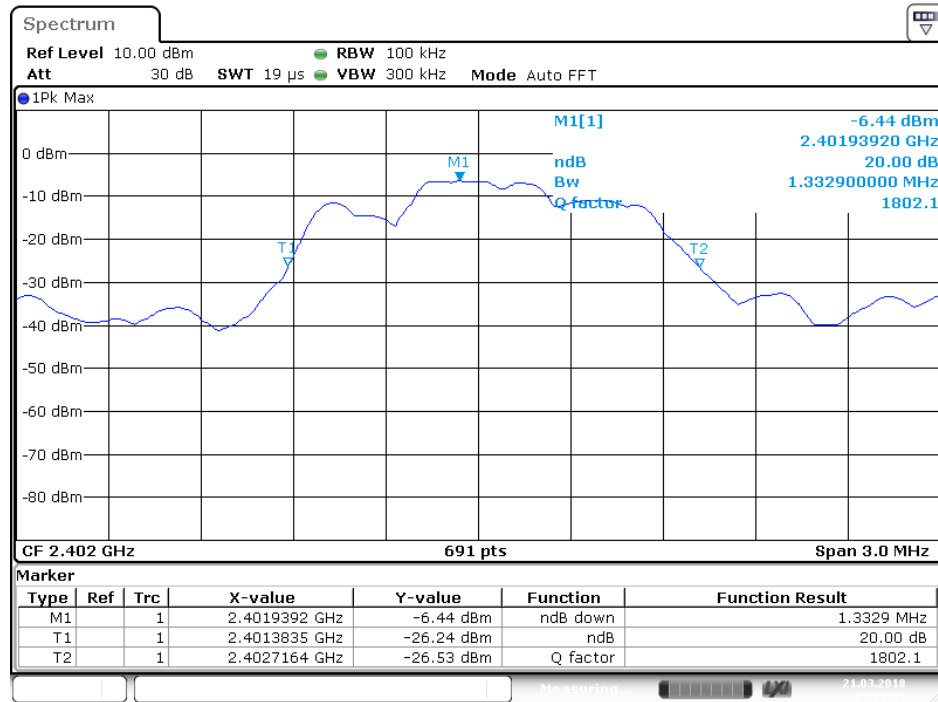
High channel



Date: 21.MAR.2018 15:26:29

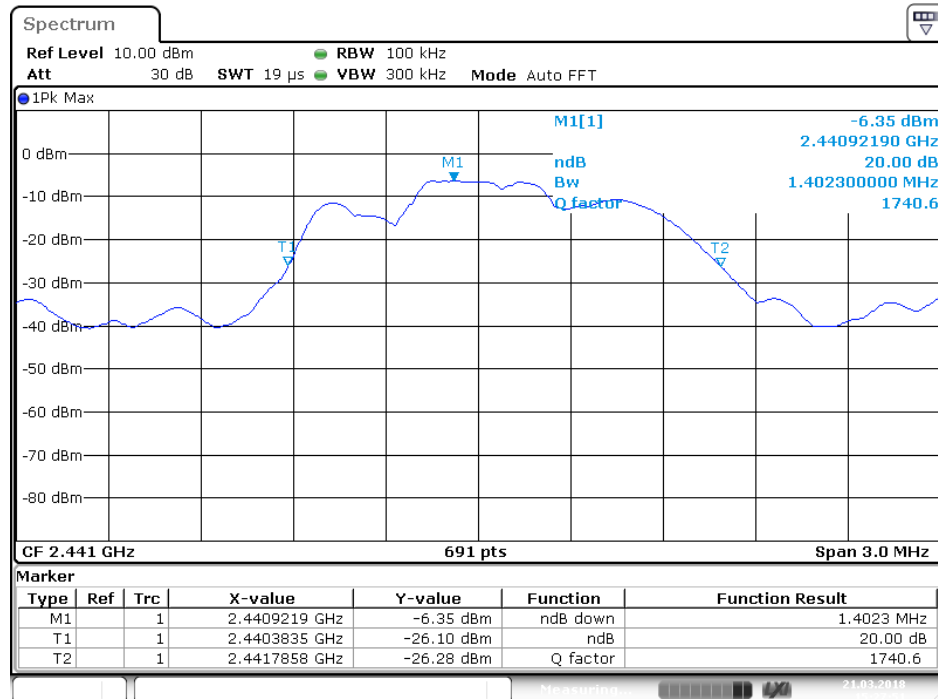
Π/4-DQPSK Mode

Low channel



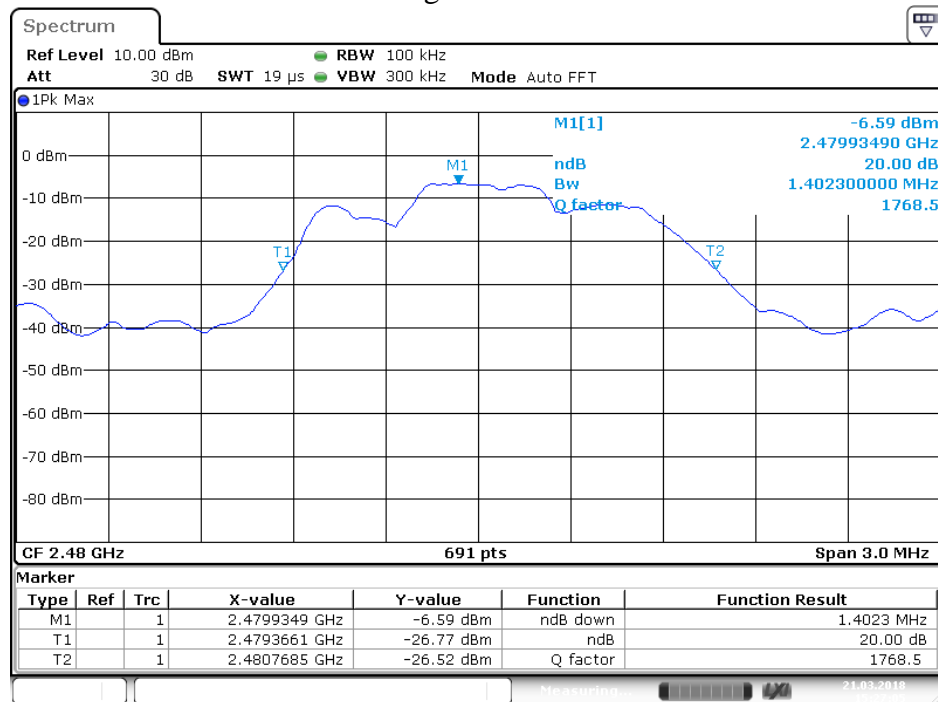
Date: 21.MAR.2018 15:28:19

Middle channel



Date: 21.MAR.2018 15:27:52

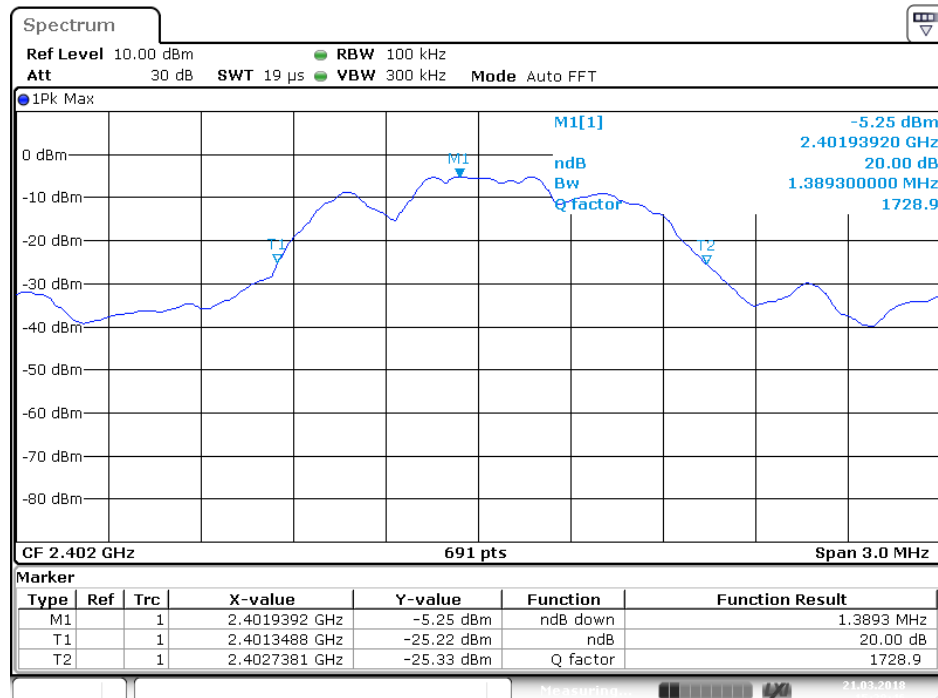
High channel



Date: 21.MAR.2018 15:27:05

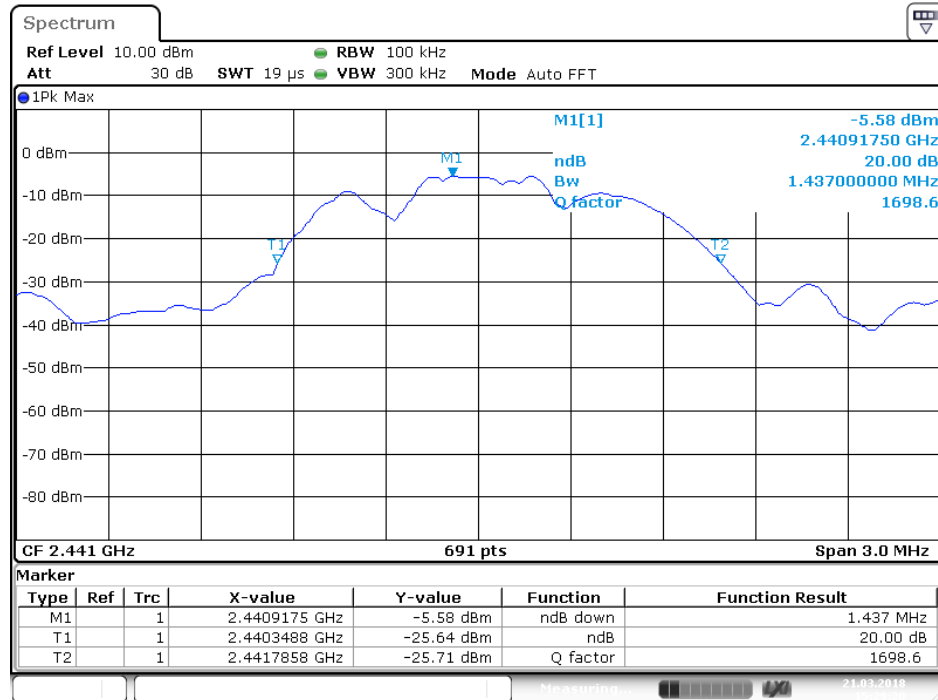
8DPSK Mode

Low channel



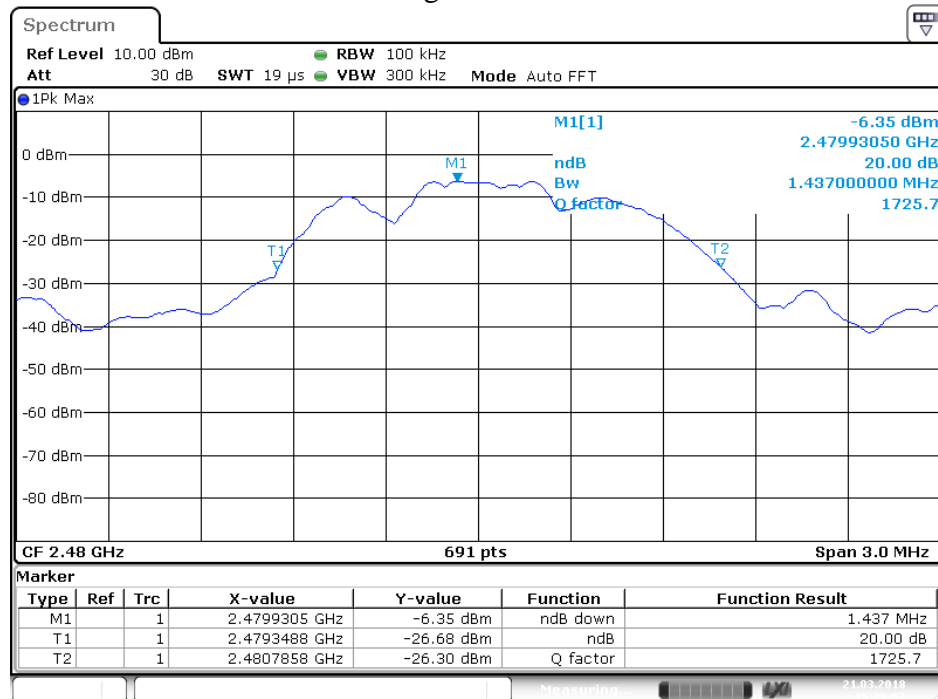
Date: 21.MAR.2018 15:28:46

Middle channel



Date: 21.MAR.2018 15:29:21

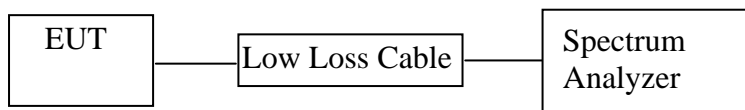
High channel



Date: 21.MAR.2018 15:29:58

6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz. Adjust Span to 2MHz.

6.5.3. Set the adjacent channel of the EUT Maxhold another trace.

6.5.4. Measurement the channel separation

6.6. Test Result

Test Lab: Shielding room

Test Engineer: Star

GFSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2480			

Π/4-DQPSK

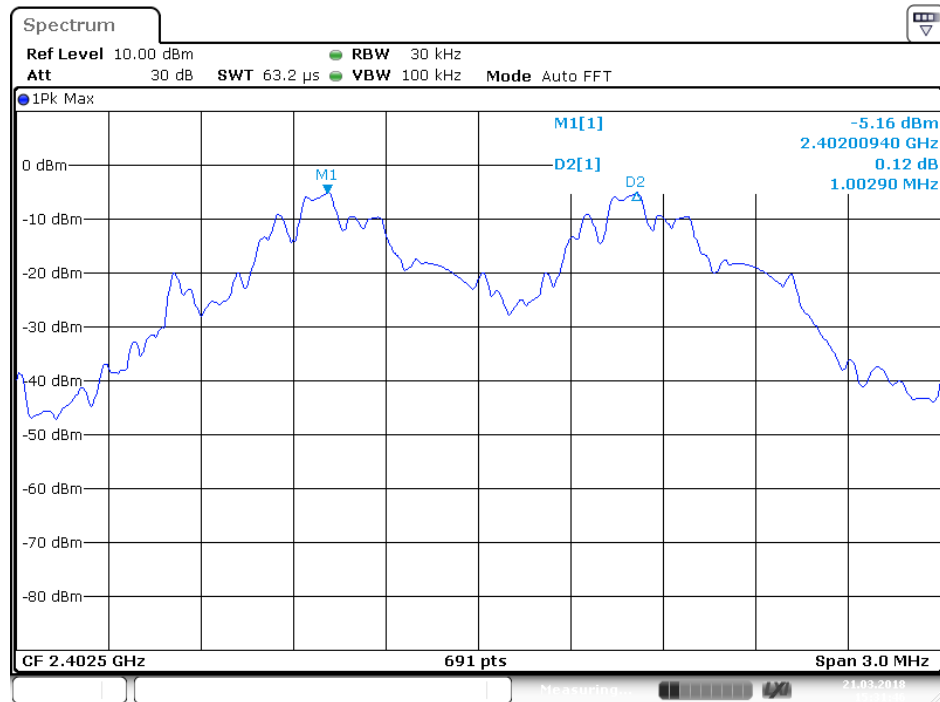
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2480			

8DPSK

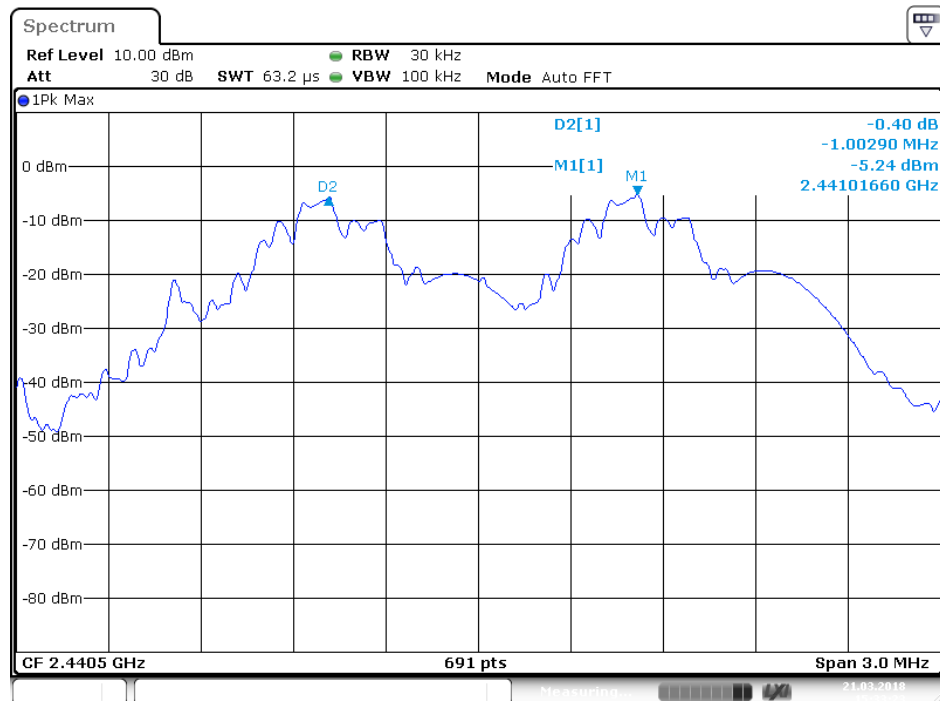
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	0.9986	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.0029	25KHz or 2/3*20dB bandwidth	PASS
	2480			

GFSK Mode

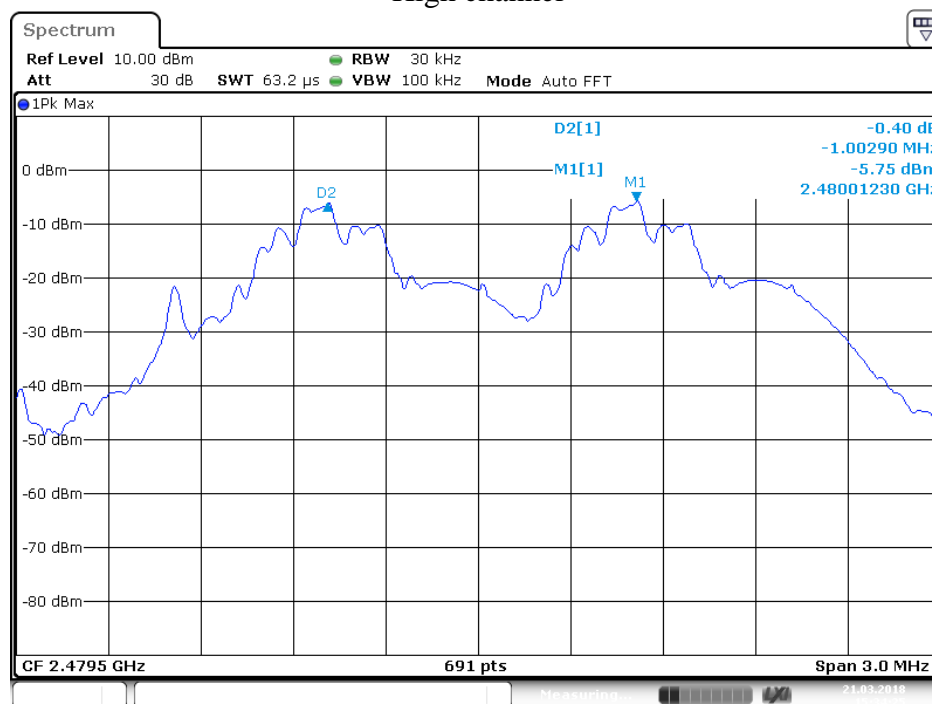
Low channel



Middle channel



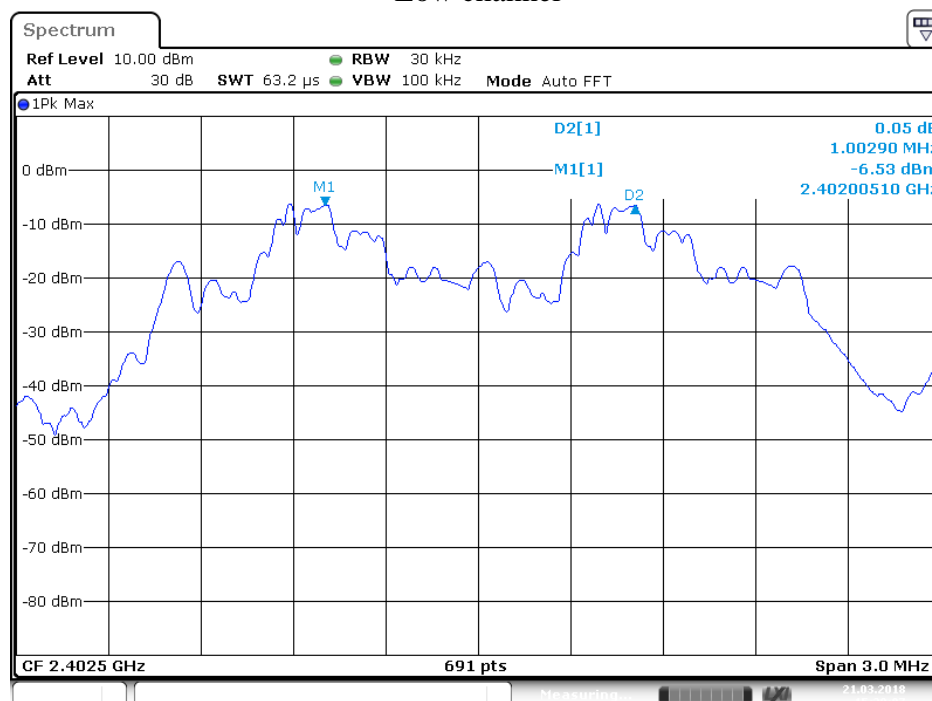
High channel



Date: 21.MAR.2018 15:34:26

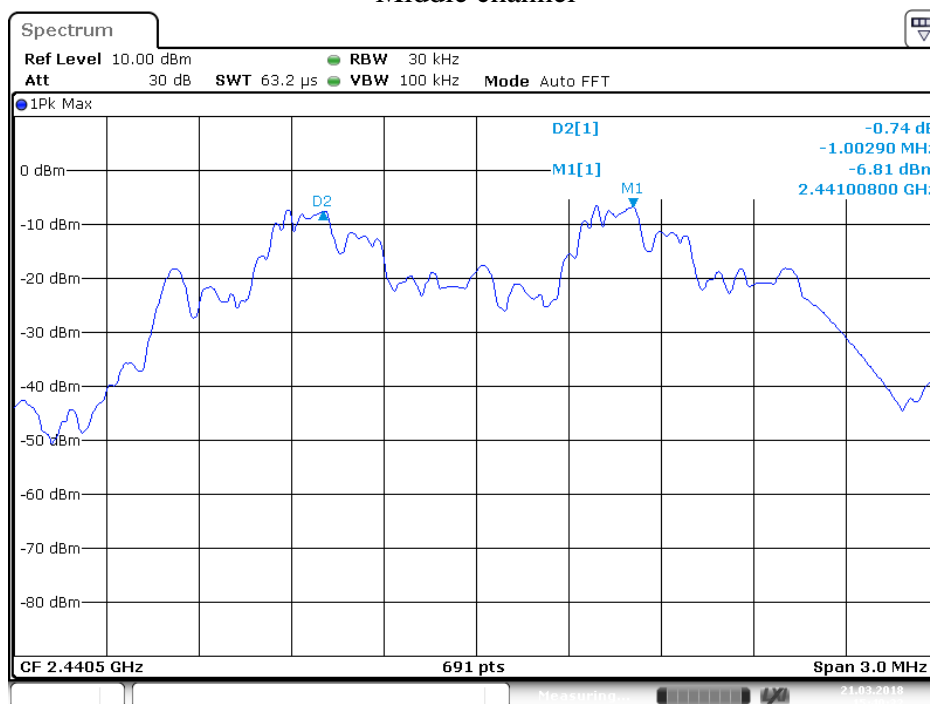
Π/4-DQPSK Mode

Low channel



Date: 21.MAR.2018 15:38:07

Middle channel



Date: 21.MAR.2018 15:40:33

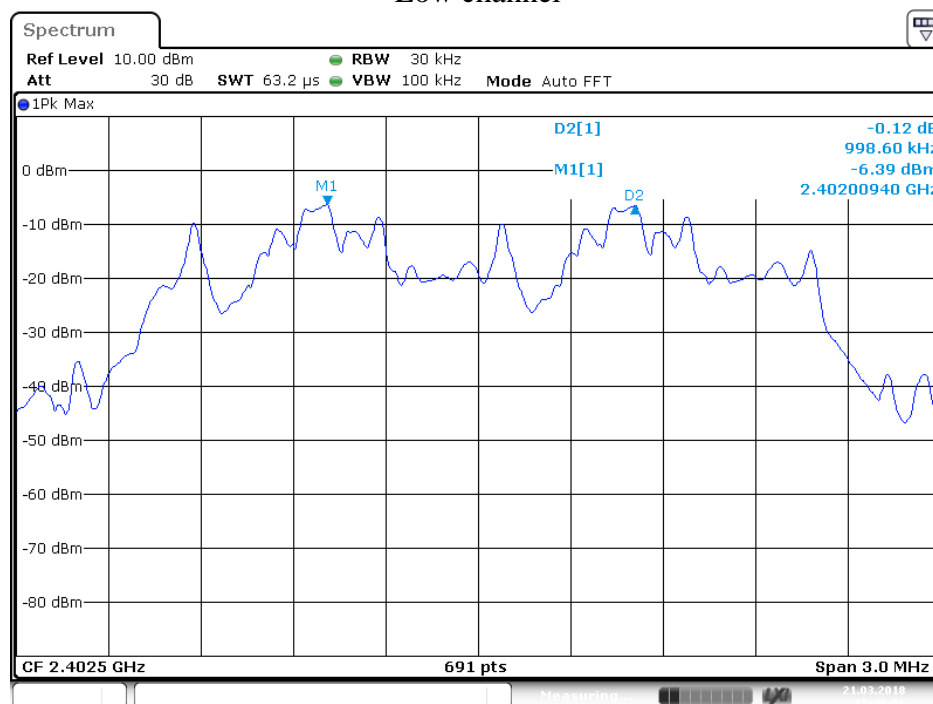
High channel



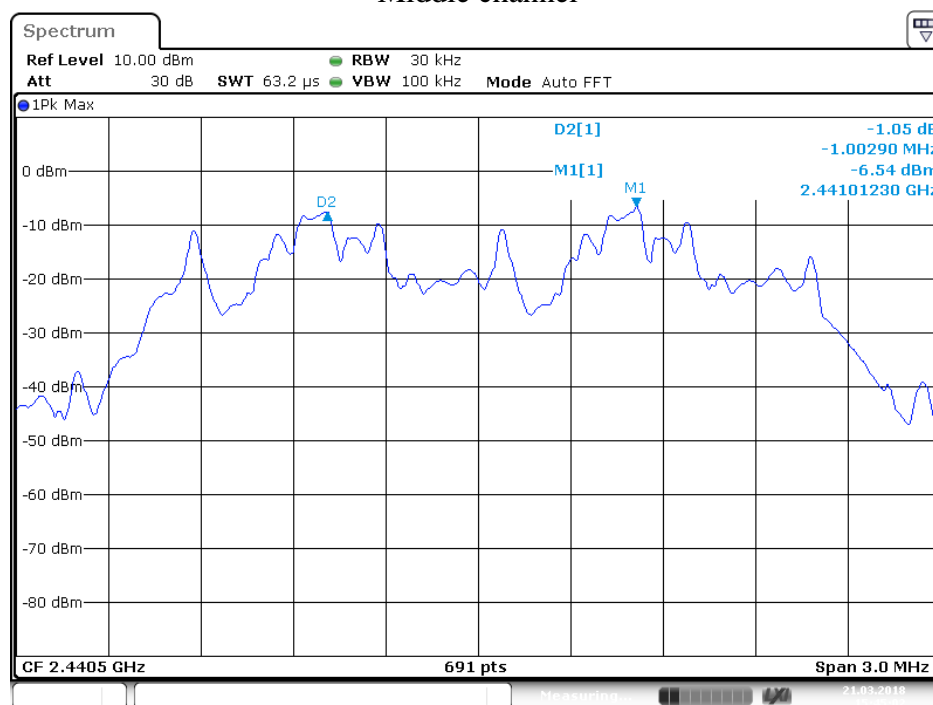
Date: 21.MAR.2018 15:42:37

8DPSK Mode

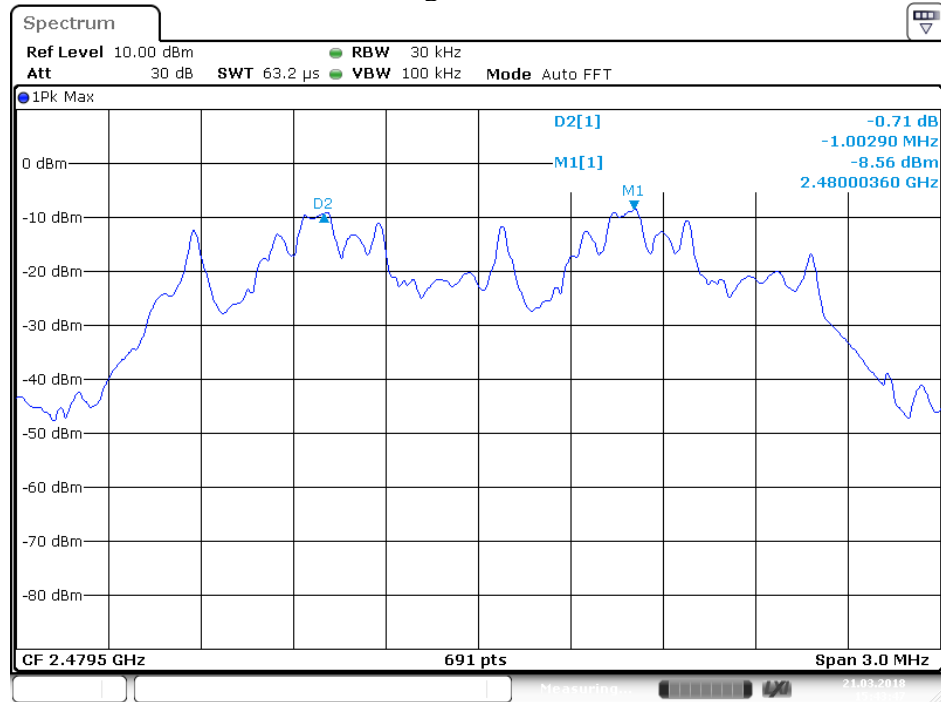
Low channel



Middle channel



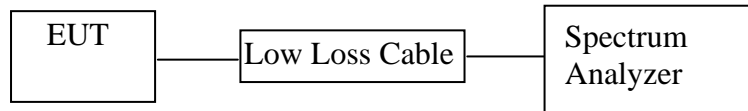
High channel



Date: 21.MAR.2018 15:43:47

7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX (Hopping on) modes measure it.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz.

7.5.3. Max hold, view and count how many channel in the band.

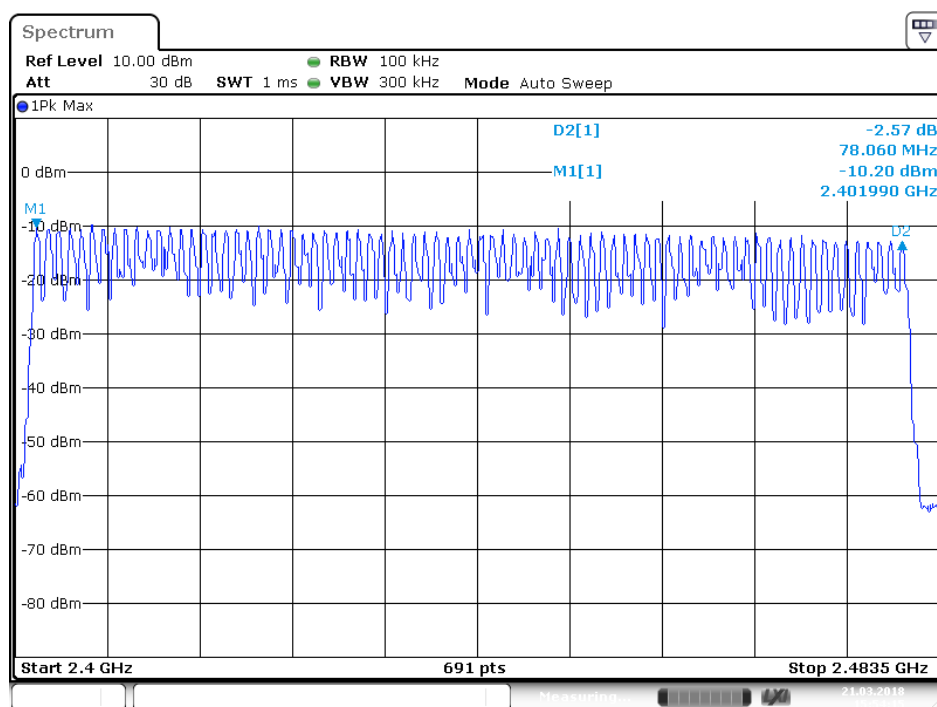
7.6.Test Result

Test Lab: Shielding room

Test Engineer: Star

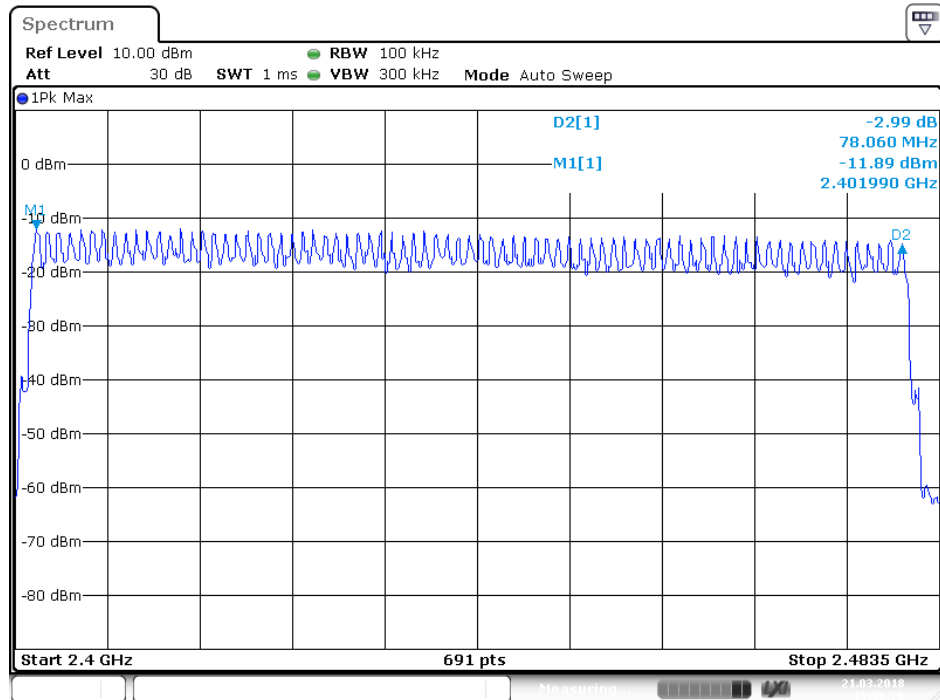
Total number of hopping channel	Measurement result(CH)	Limit(CH)
	79	≥ 15

Number of hopping channels(GFSK)

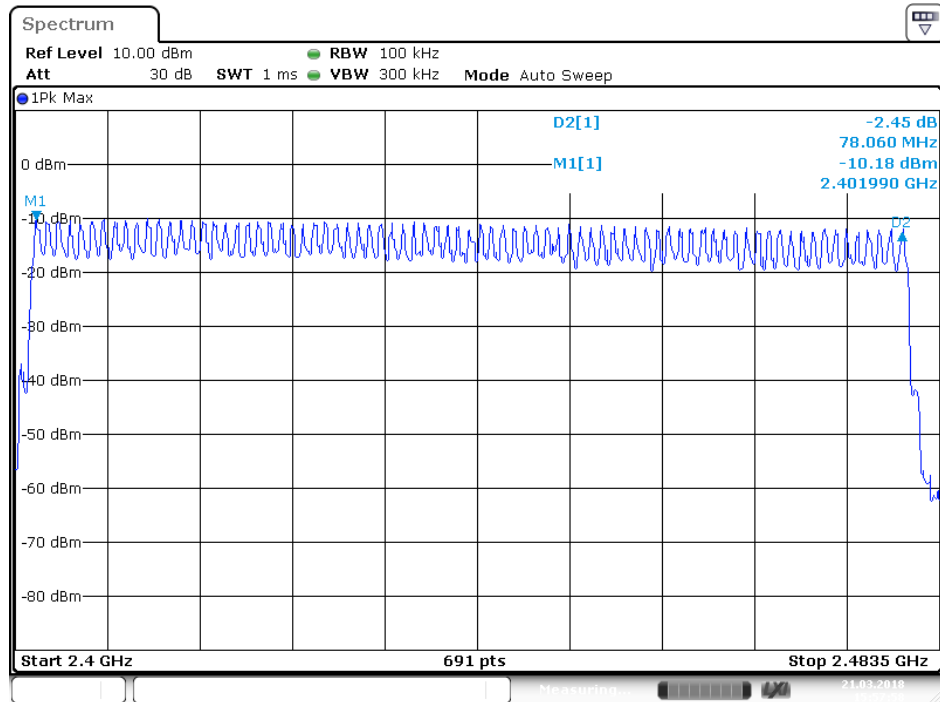


Date: 21.MAR.2018 15:54:15

Number of hopping channels($\Pi/4$ -DQPSK)

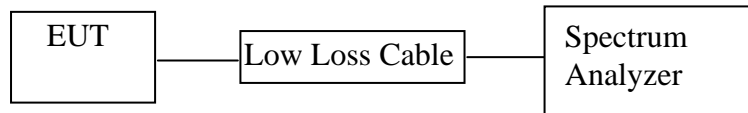


Number of hopping channels(8DPSK)



8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=5ms, 10ms, 15ms. Get the pulse time.

8.5.4. Repeat above procedures until all frequency measured were complete.

8.6. Test Result

Test Lab: Shielding room

Test Engineer: Star

GFSK Mode (Worst case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.514	164.48	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.790	286.40	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	3.051	325.44	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

$\Pi/4$ -DQPSK (Worst case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.522	167.04	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.797	287.52	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	3.065	326.93	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

8DPSK (Worst case)

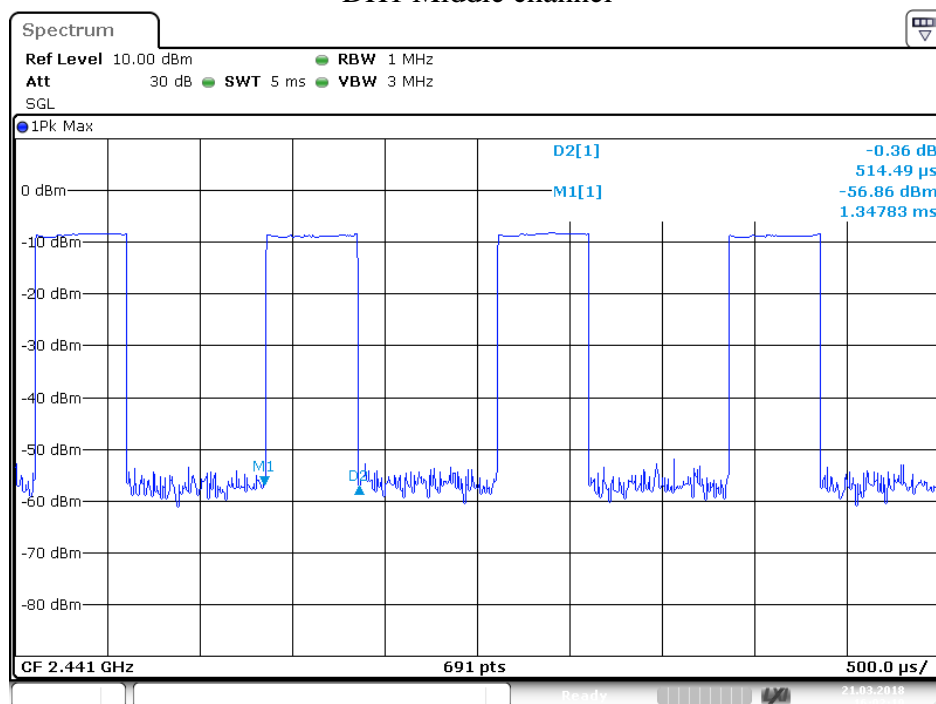
Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.522	167.04	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.797	287.52	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	3.036	323.84	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

Note: We tested GFSK mode and $\Pi/4$ -DQPSK & 8DPSK mode the low, middle and high channel and recorded the worst case data for all test mode.

The spectrum analyzer plots are attached as below.

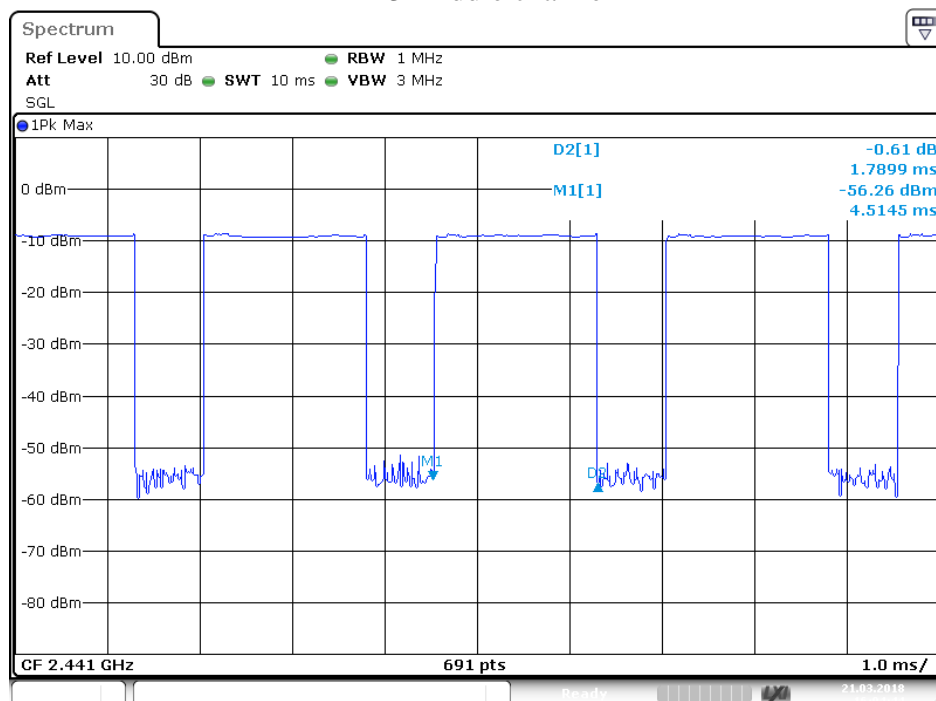
GFSK Mode

DH1 Middle channel



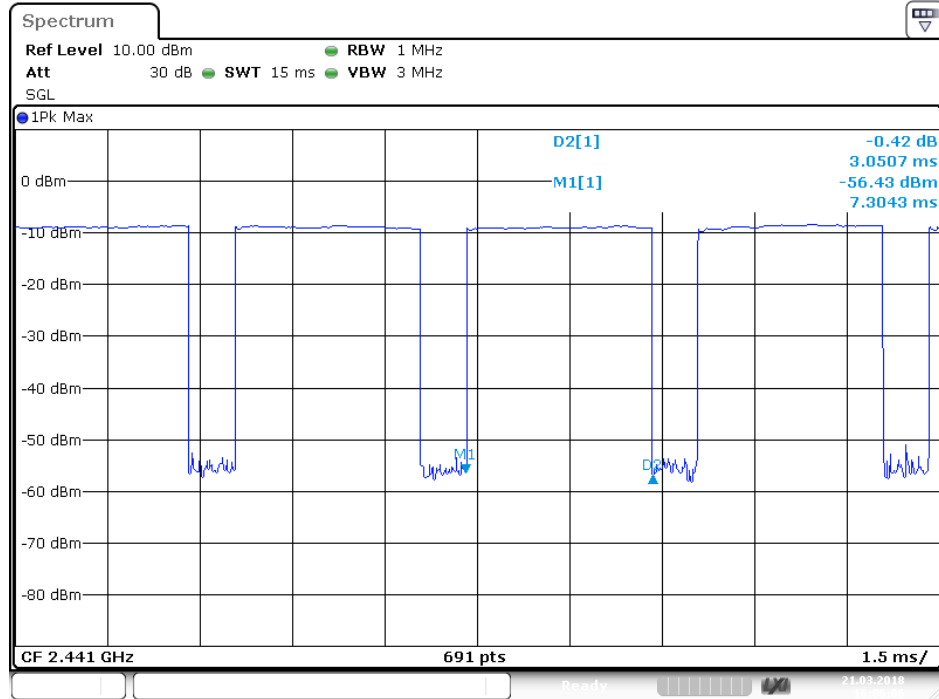
Date: 21.MAR.2018 16:02:20

DH3 Middle channel



Date: 21.MAR.2018 16:04:44

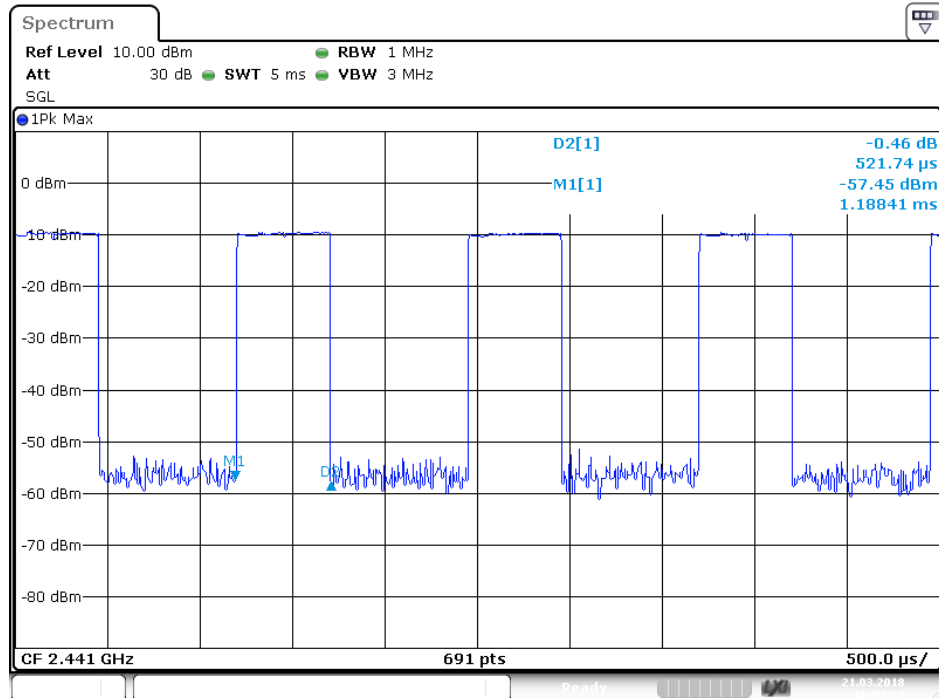
DH5 Middle channel



Date: 21.MAR.2018 16:06:06

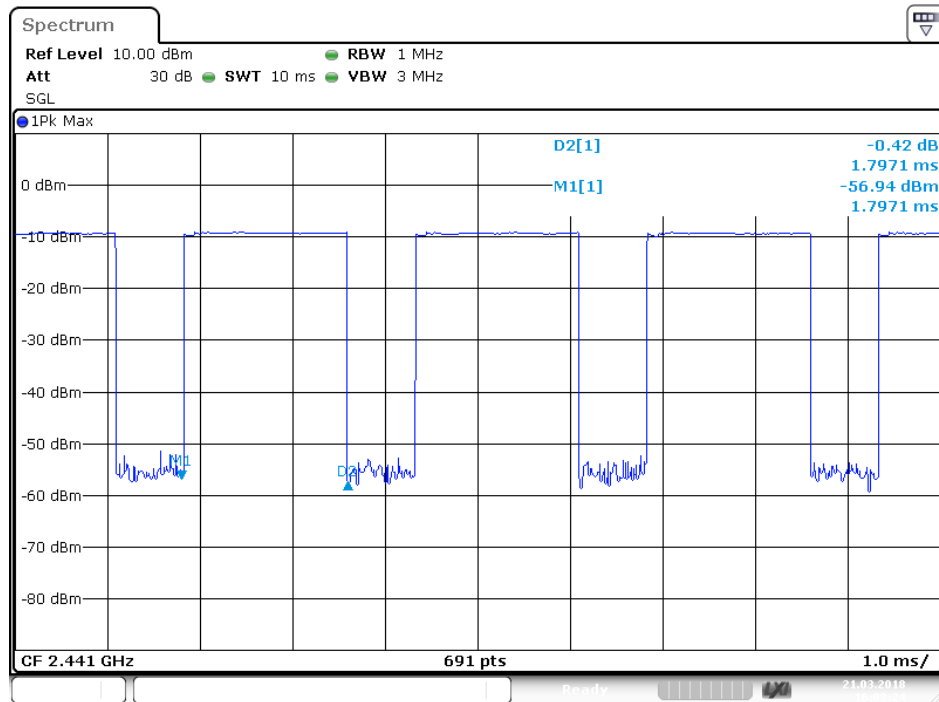
II/4-DQPSK

2DH1 Middle channel



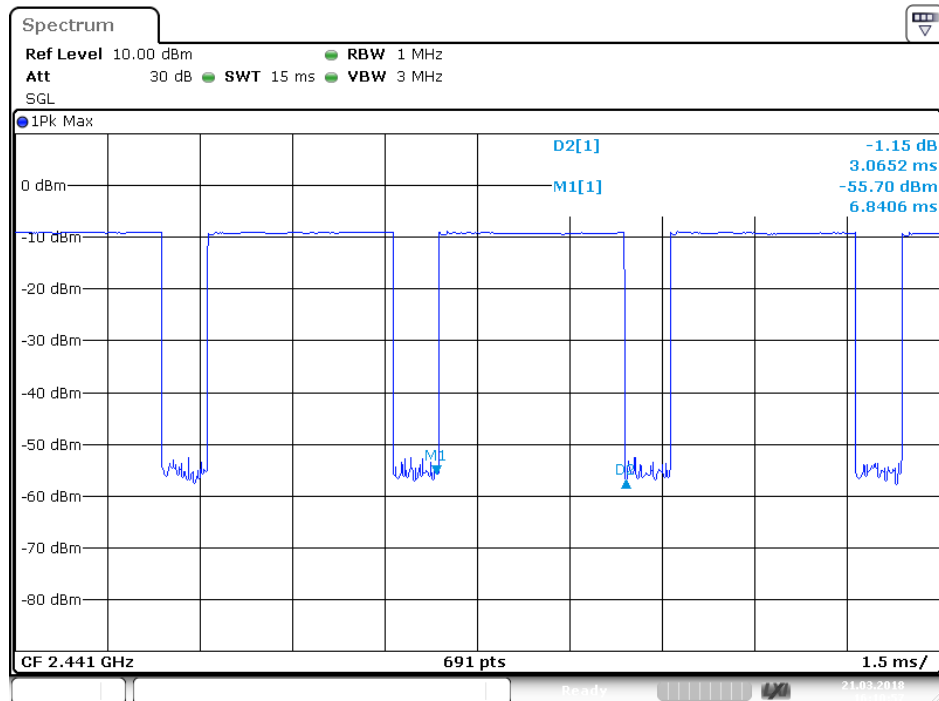
Date: 21.MAR.2018 16:07:27

2DH3 Middle channel



Date: 21.MAR.2018 16:08:24

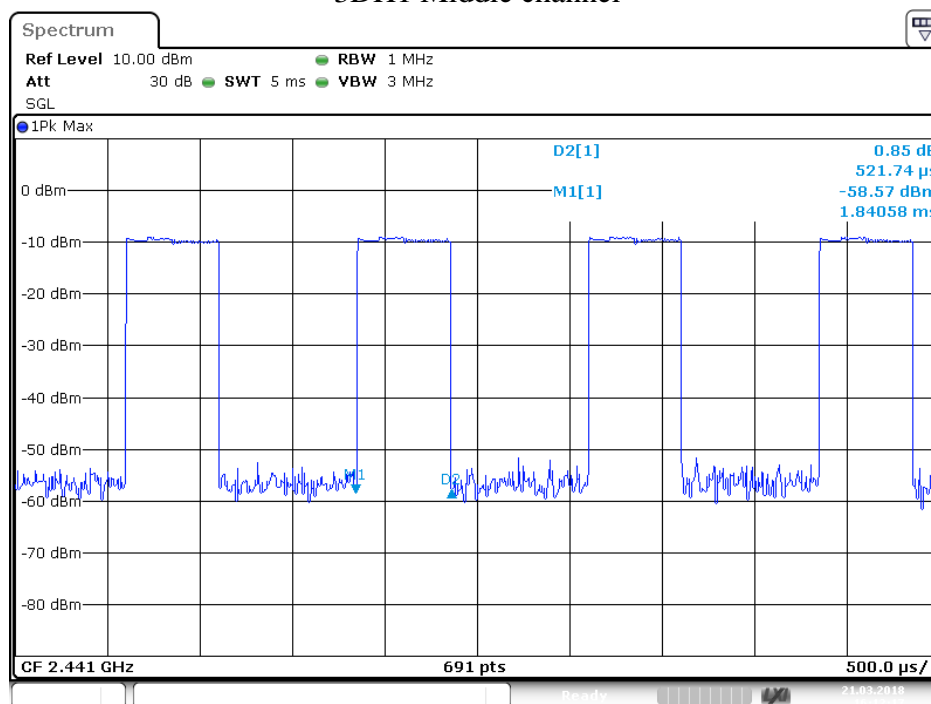
2DH5 Middle channel



Date: 21.MAR.2018 16:10:58

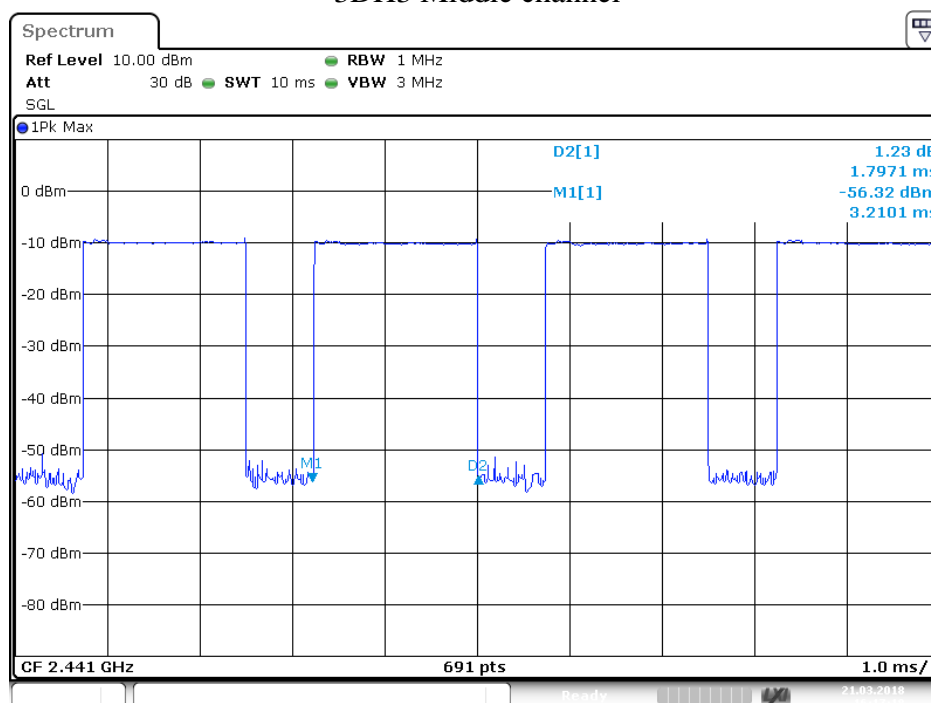
8DPSK

3DH1 Middle channel



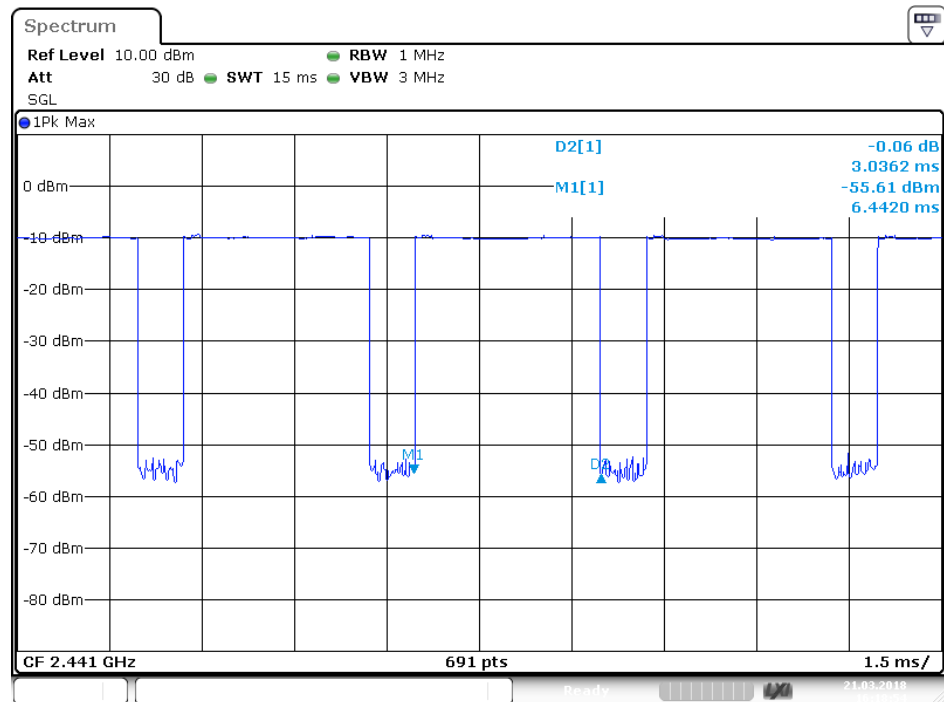
Date: 21.MAR.2018 16:12:18

3DH3 Middle channel



Date: 21.MAR.2018 16:17:18

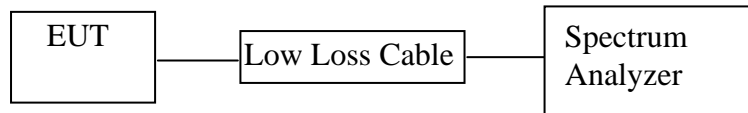
3DH5 Middle channel



Date: 21.MAR.2018 16:18:55

9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

9.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz.

9.5.3. Measurement the maximum peak output power.

9.6. Test Result

Test Lab: Shielding room

Test Engineer: Star

GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	-4.28/0.0004	21 / 0.125
Middle	2441	-4.17/0.0004	21 / 0.125
High	2480	-4.48/0.0004	21 / 0.125

II/4-DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	-5.17/0.0003	21 / 0.125
Middle	2441	-4.88/0.0003	21 / 0.125
High	2480	-4.70/0.0003	21 / 0.125

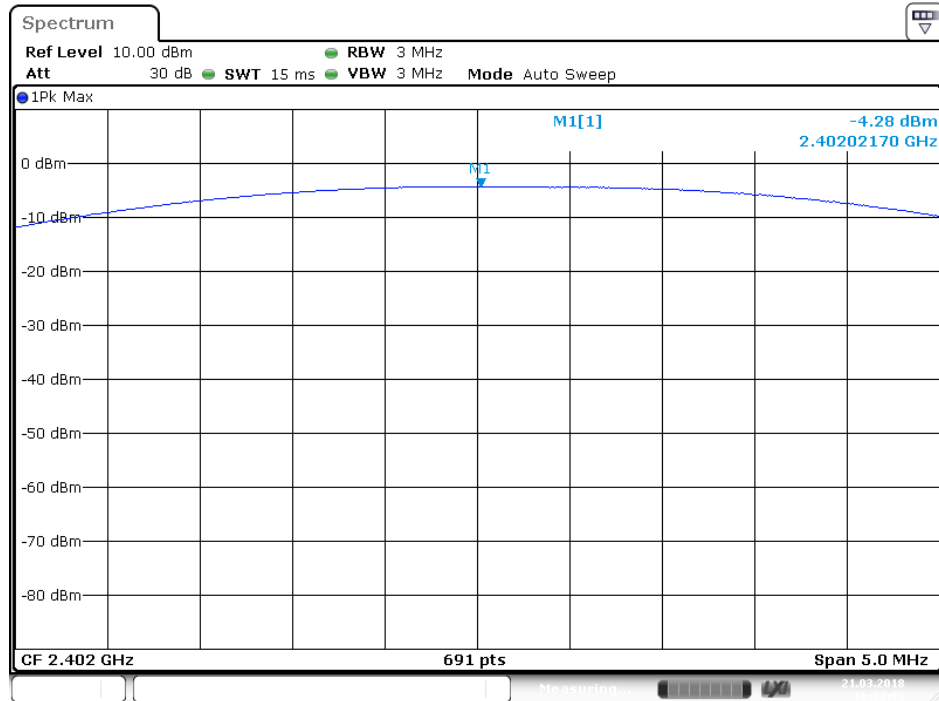
8DPSK

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	-4.73/0.0003	21 / 0.125
Middle	2441	-4.67/0.0003	21 / 0.125
High	2480	-4.74/0.0003	21 / 0.125

The spectrum analyzer plots are attached as below.

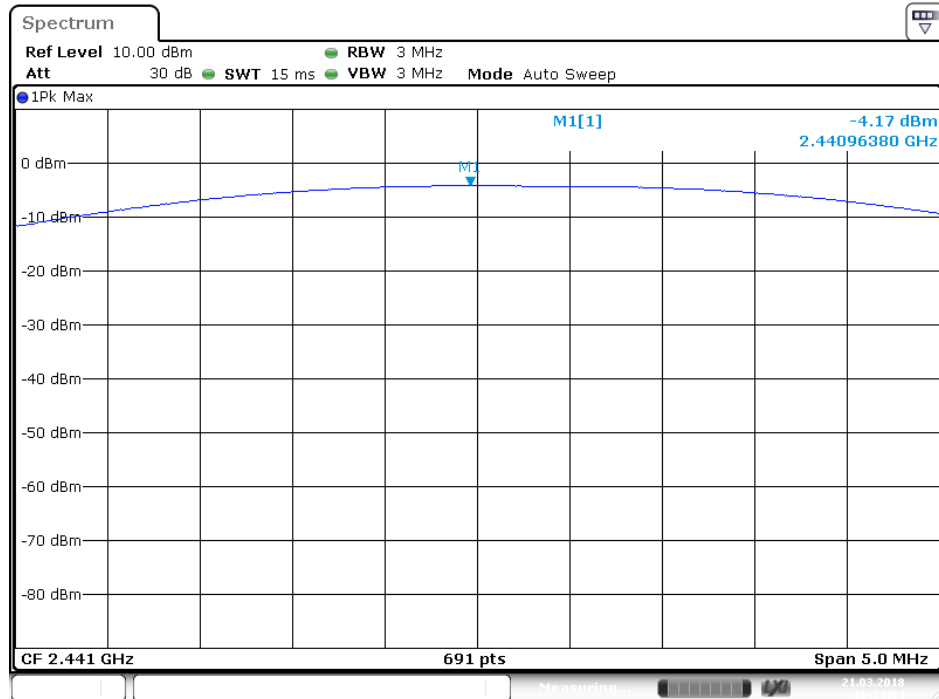
GFSK Mode

Low channel



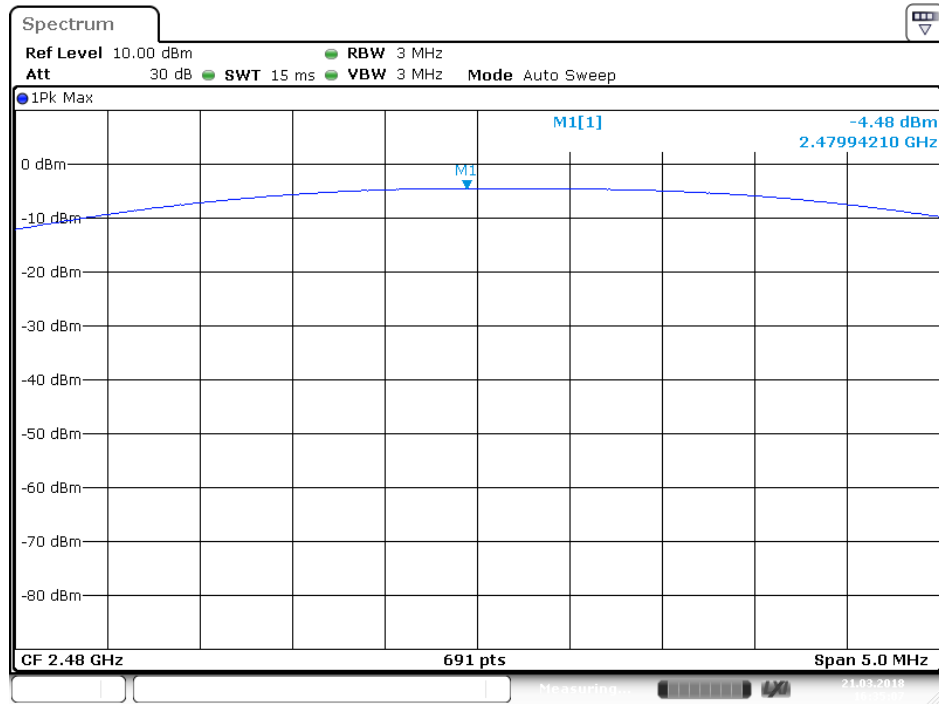
Date: 21.MAR.2018 16:33:03

Middle channel



Date: 21.MAR.2018 16:34:05

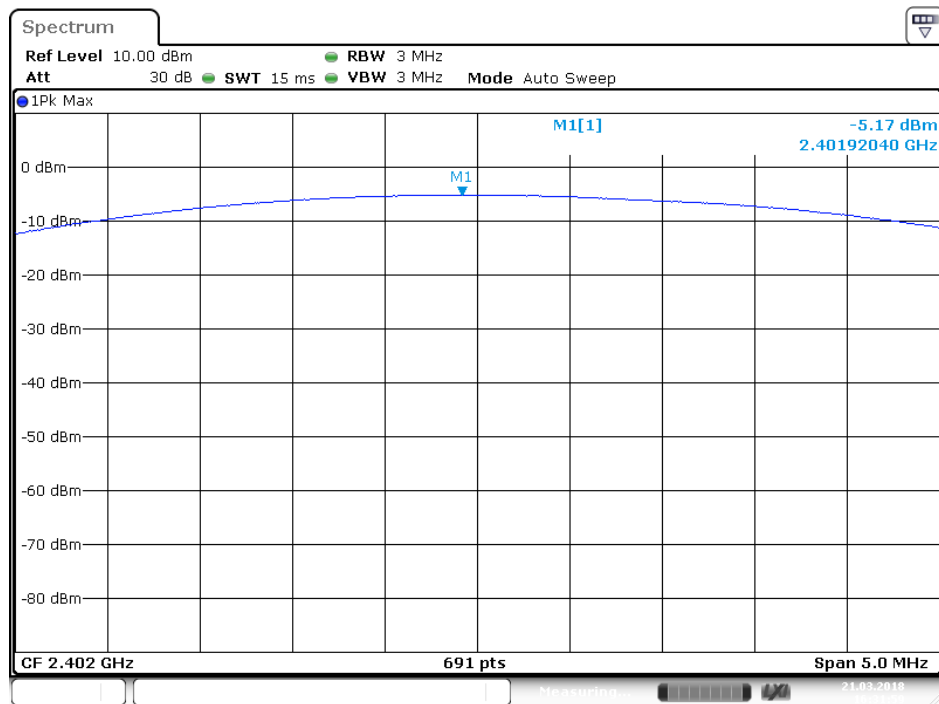
High channel



Date: 21.MAR.2018 16:35:07

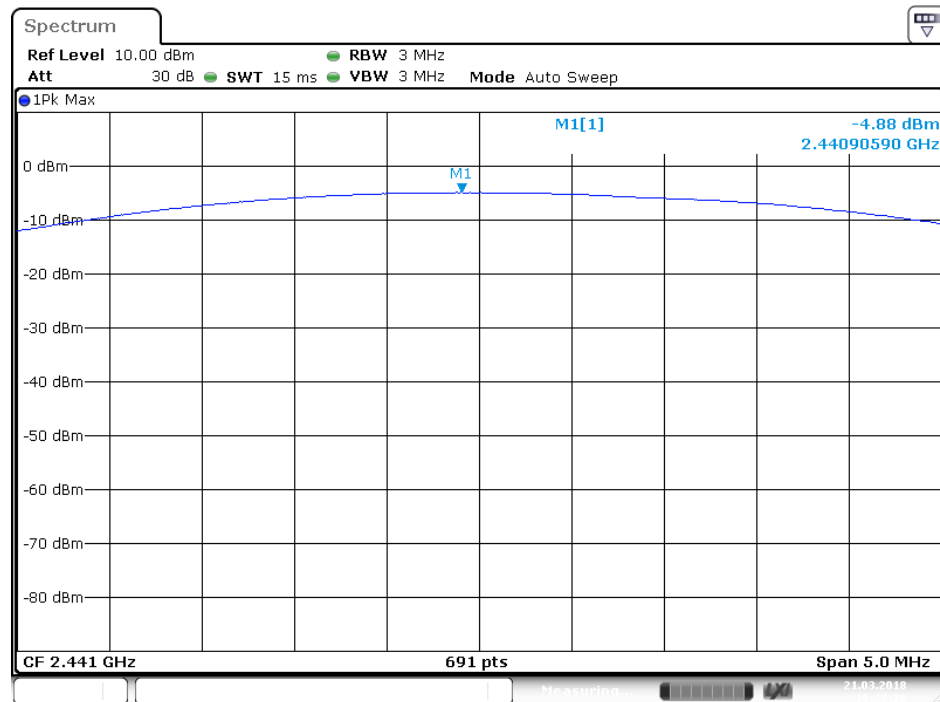
II/4-DQPSK Mode

Low channel



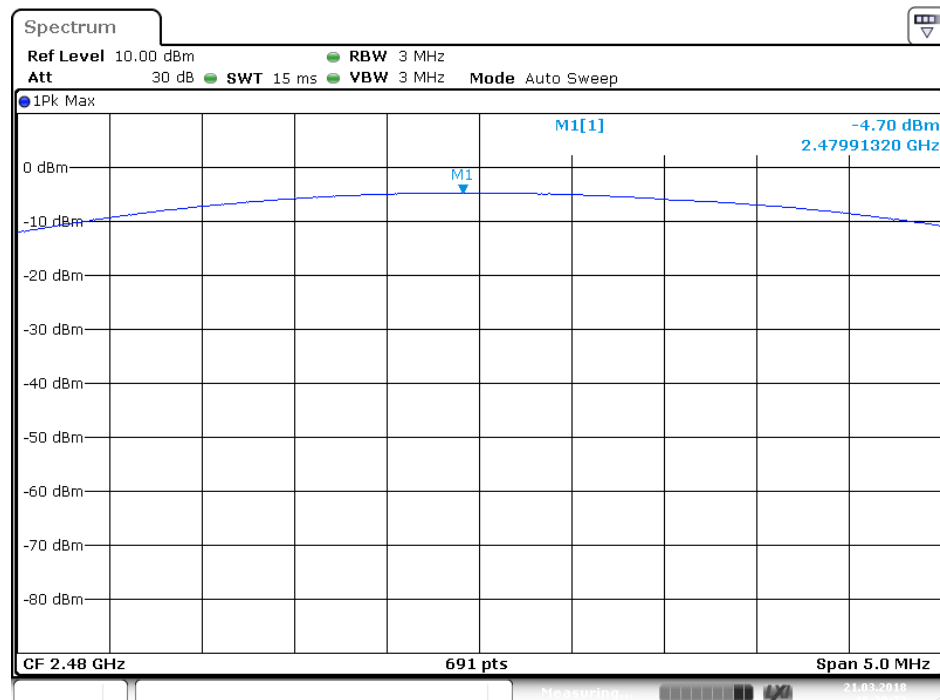
Date: 21.MAR.2018 16:31:59

Middle channel



Date: 21.MAR.2018 16:28:26

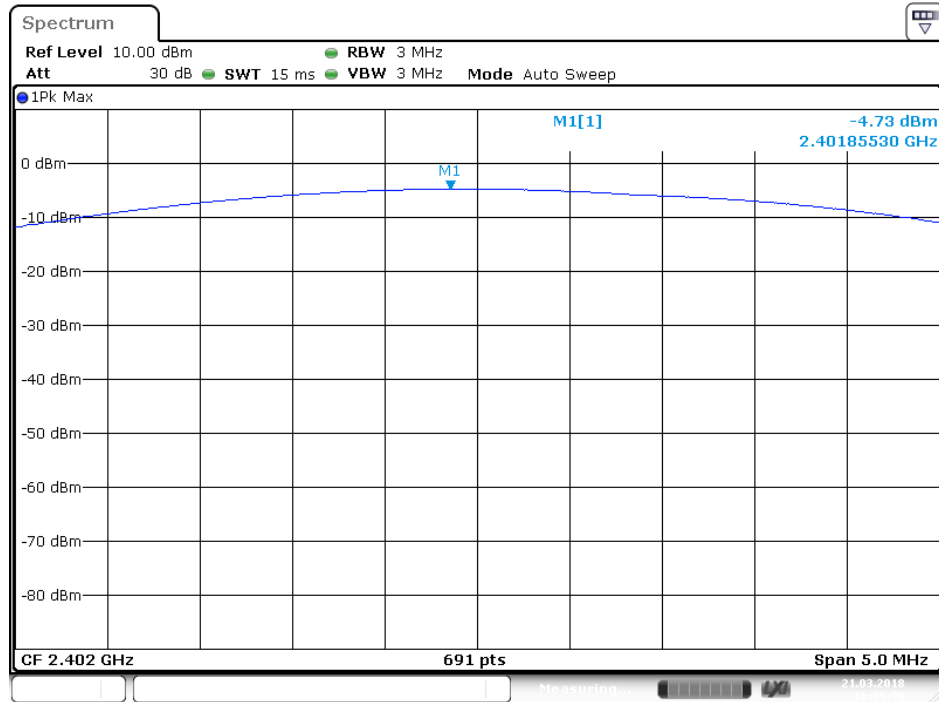
High channel



Date: 21.MAR.2018 16:30:22

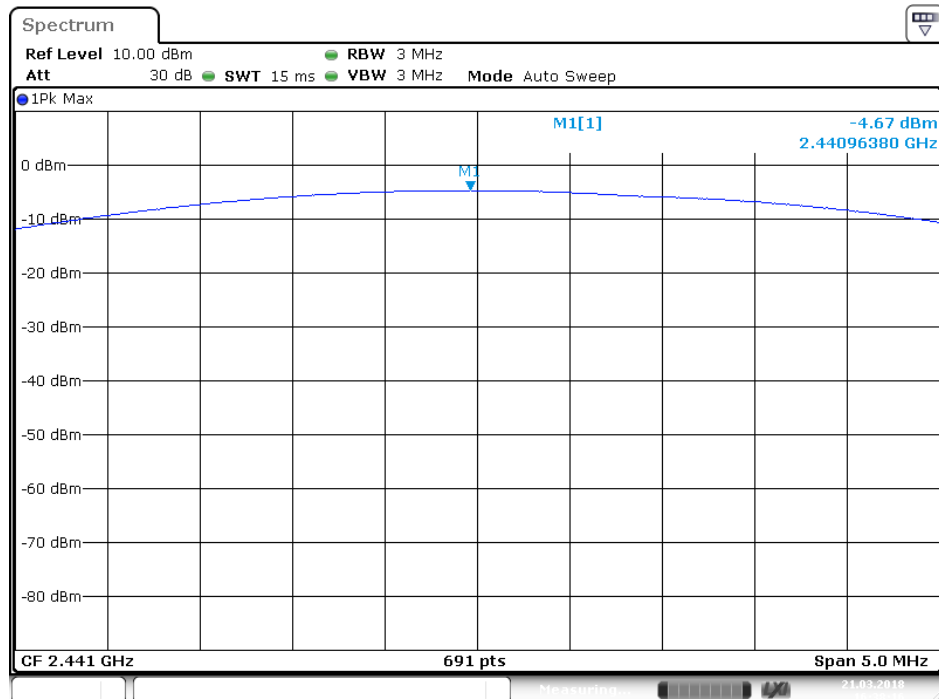
8DPSK Mode

Low channel



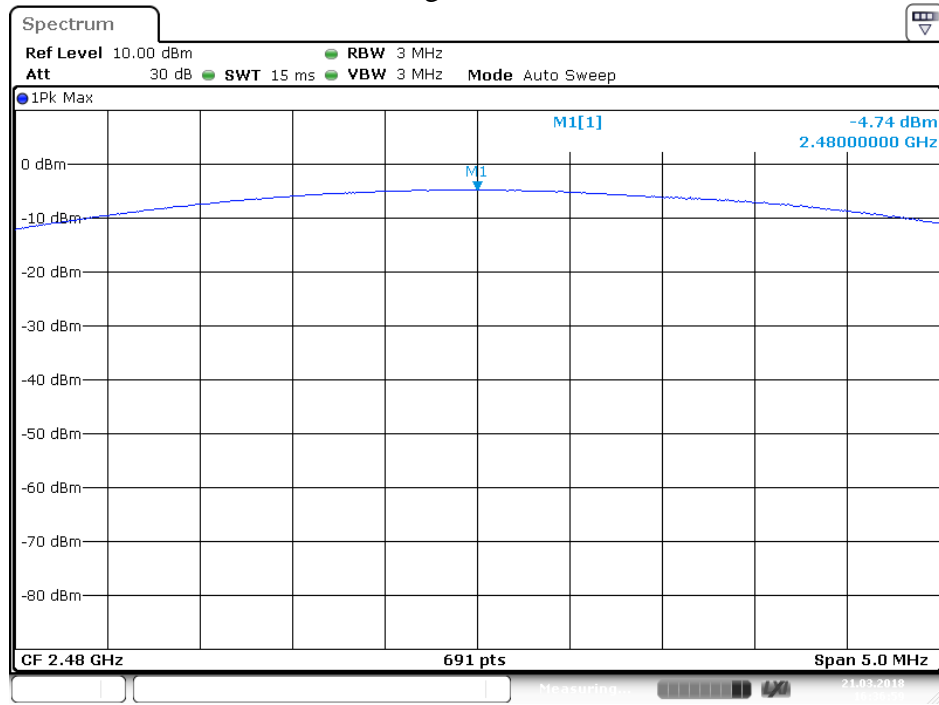
Date: 21.MAR.2018 16:39:40

Middle channel



Date: 21.MAR.2018 16:38:16

High channel

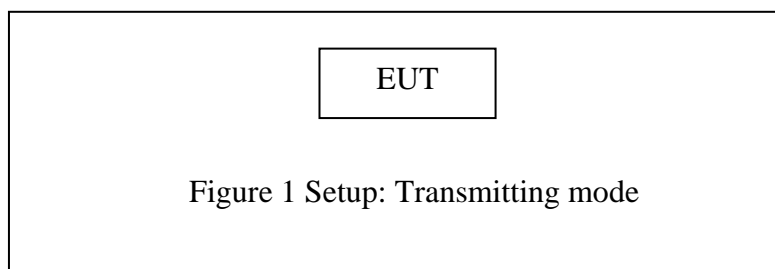


Date: 21.MAR.2018 16:36:59

10. RADIATED EMISSION TEST

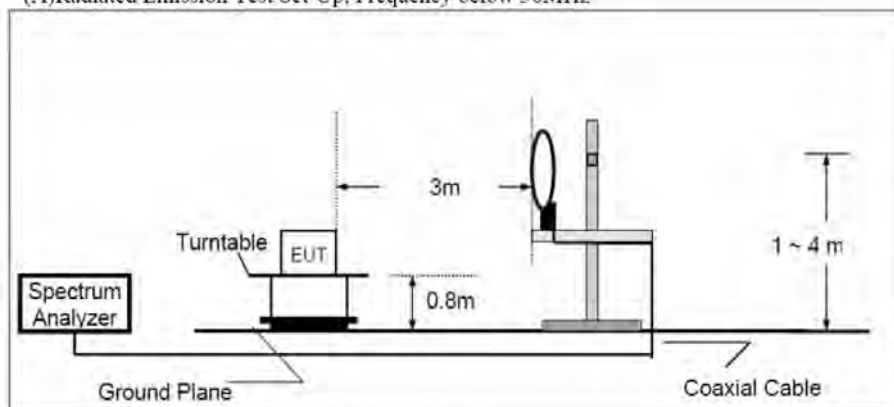
10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and peripherals

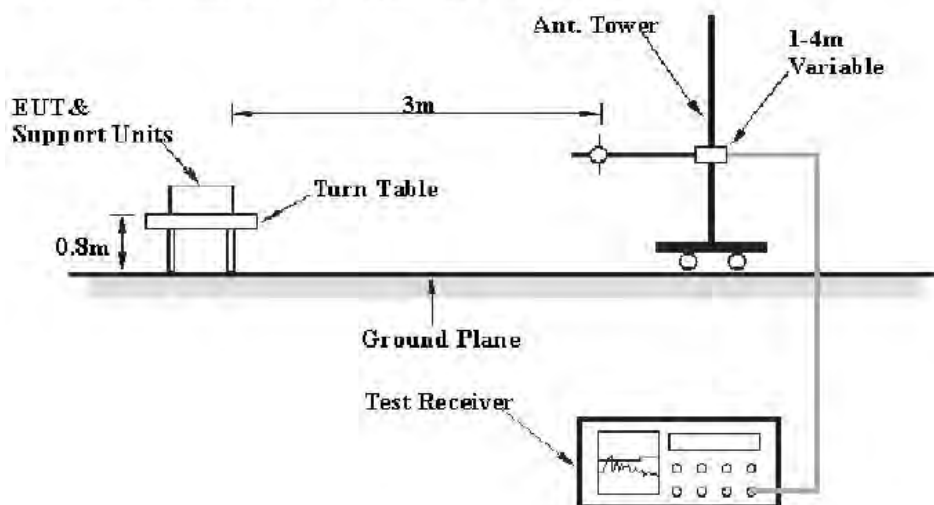


10.1.2. Semi-Anechoic Chamber Test Setup Diagram

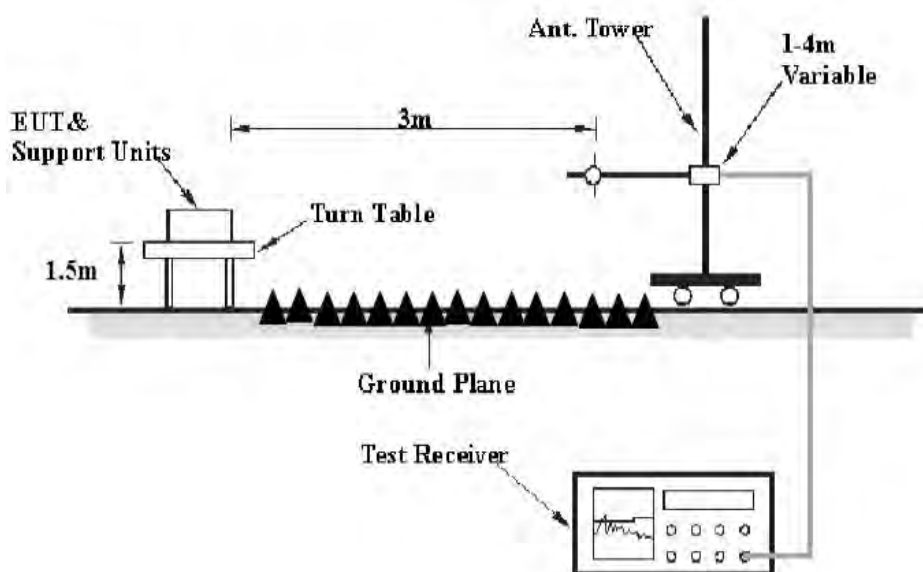
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30MHz-1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



10.2.The Limit For Section 15.247(d)

Section 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 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 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).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5. Operating Condition of EUT

10.5.1. Setup the EUT and simulator as shown as Section 10.1.

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

10.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.7.Data Sample

Frequency (MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
X.XX	48.69	-13.35	35.34	46	-10.66	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

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 limit.

10.8.The Field Strength of Radiation Emission Measurement Results

PASS.

Test Lab: 3m Anechoic chamber

Test Engineer: Star

Note: 1.We tested GFSK mode, $\Pi/4$ -DQPSK & 8DPSK Mode and recorded the worst case data (GFSK mode) for all test mode.

2. Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz and 18 to 26.5GHz.

The spectrum analyzer plots are attached as below.

Below 1GHz



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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2018 #91

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz (GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

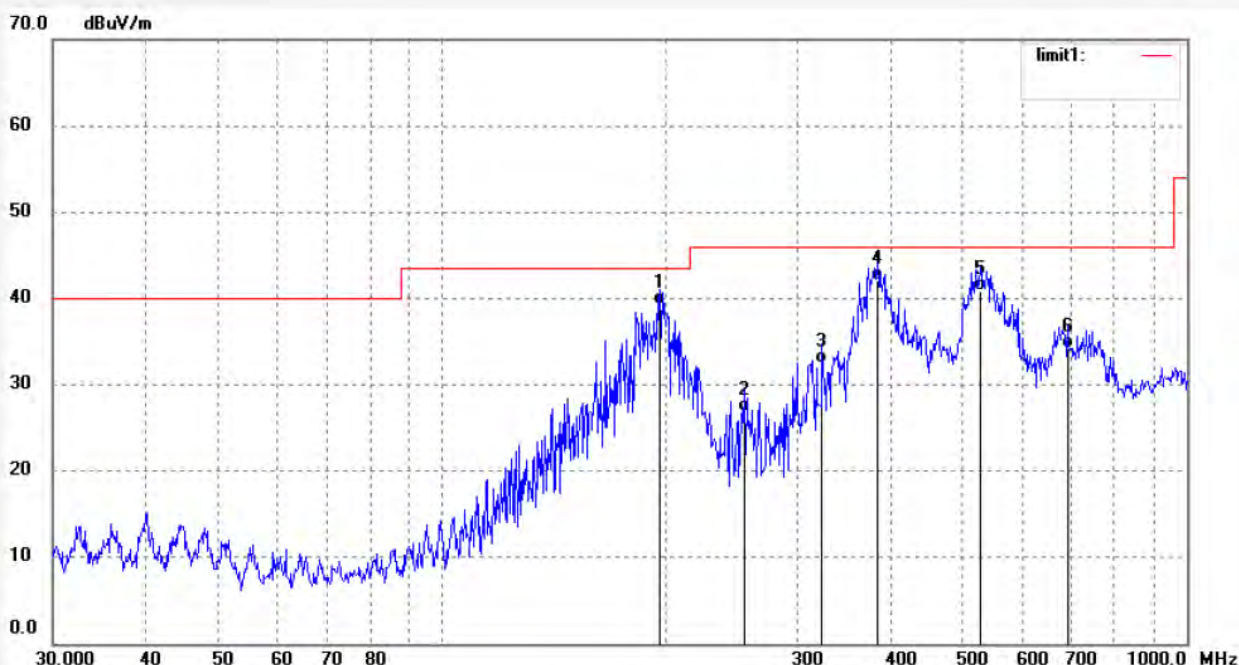
Date: 18/03/23/

Time: 13/59/58

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	195.8701	58.25	-18.93	39.32	43.50	-4.18	QP			
2	254.9252	44.78	-17.90	26.88	46.00	-19.12	QP			
3	323.7250	48.05	-15.64	32.41	46.00	-13.59	QP			
4	384.5446	56.24	-14.13	42.11	46.00	-3.89	QP			
5	527.5706	52.47	-11.61	40.86	46.00	-5.14	QP			
6	691.4763	42.40	-8.13	34.27	46.00	-11.73	QP			

Job No.: STAR2018 #92

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz (GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

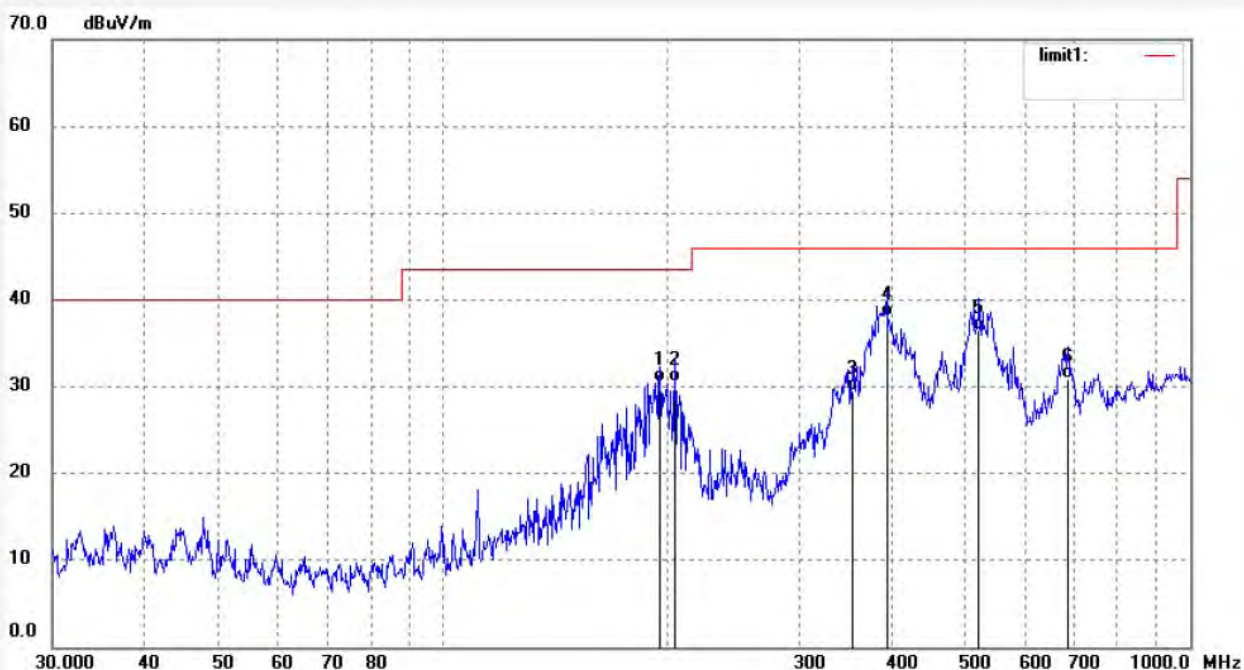
Date: 18/03/23/

Time: 14/01/09

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	195.1830	49.55	-18.96	30.59	43.50	-12.91	QP			
2	204.3052	49.00	-18.54	30.46	43.50	-13.04	QP			
3	353.4471	44.00	-14.50	29.50	46.00	-16.50	QP			
4	392.7375	52.06	-14.05	38.01	46.00	-7.99	QP			
5	522.0389	48.24	-11.73	36.51	46.00	-9.49	QP			
6	686.6341	39.10	-8.20	30.90	46.00	-15.10	QP			



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Site: 1# Chamber

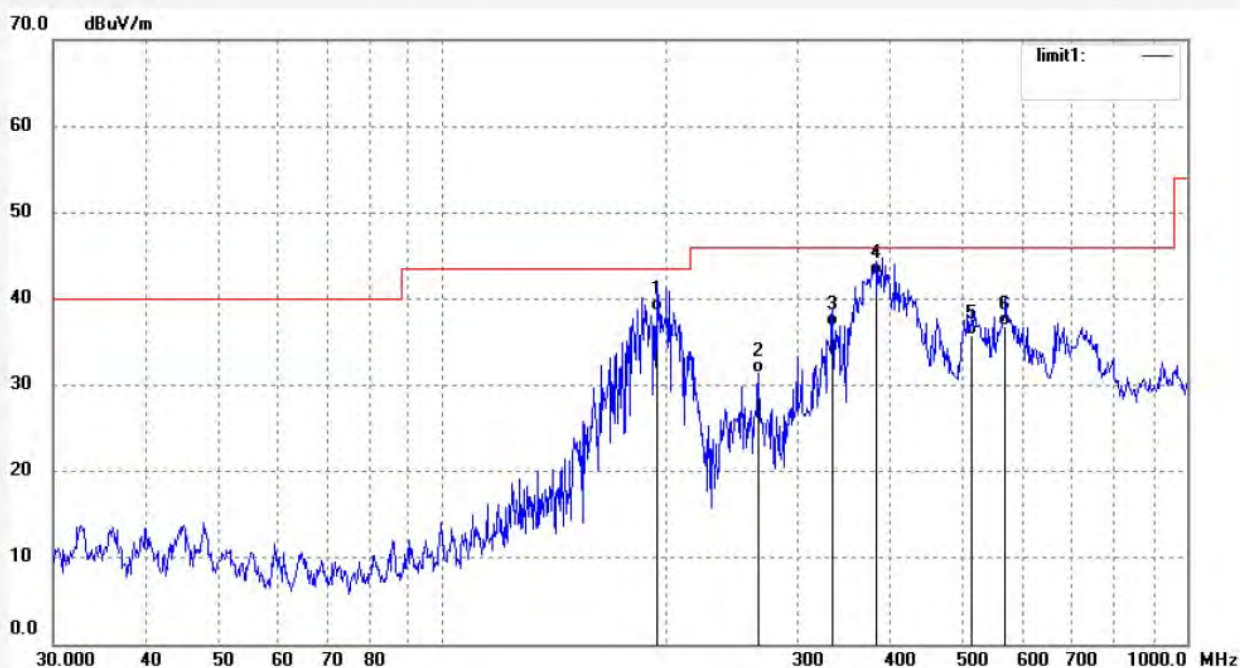
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2018 #94
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Sports Bluetooth Earphone
Mode: TX 2441MHz (GFSK)
Model: MEE audio X6
Manufacturer: S2E, Inc.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 18/03/23/
Time: 14/03/21
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	193.8163	57.66	-19.08	38.58	43.50	-4.92	QP			
2	265.9035	48.68	-17.25	31.43	46.00	-14.57	QP			
3	334.1255	52.06	-15.16	36.90	46.00	-9.10	QP			
4	381.8520	56.96	-14.14	42.82	46.00	-3.18	QP			
5	514.7533	47.74	-11.90	35.84	46.00	-10.16	QP			
6	569.9688	47.42	-10.62	36.80	46.00	-9.20	QP			



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Site: 1# Chamber

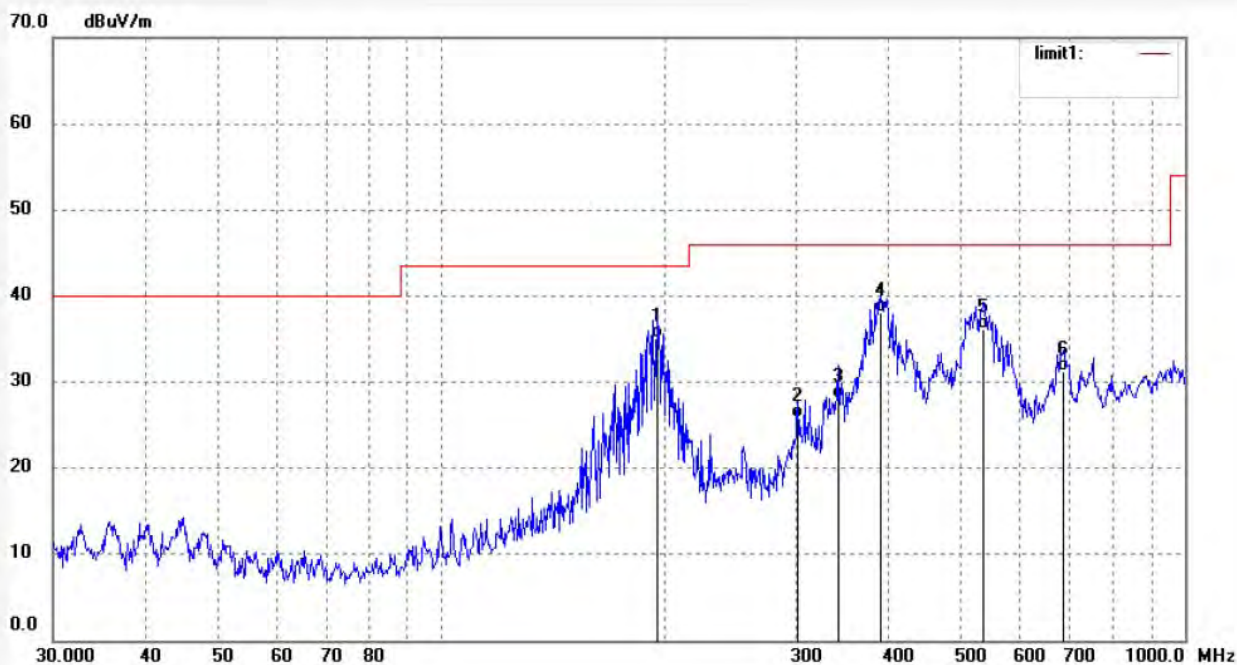
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2018 #93
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Sports Bluetooth Earphone
Mode: TX 2441MHz (GFSK)
Model: MEE audio X6
Manufacturer: S2E, Inc.

Polarization: Vertical
Power Source: DC 3.7V
Date: 18/03/23/
Time: 14/02/15
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	195.1830	53.97	-18.96	35.01	43.50	-8.49	QP			
2	301.7572	42.00	-16.25	25.75	46.00	-20.25	QP			
3	341.2441	43.00	-14.97	28.03	46.00	-17.97	QP			
4	389.9873	52.14	-14.09	38.05	46.00	-7.95	QP			
5	536.9208	47.55	-11.39	36.16	46.00	-9.84	QP			
6	686.6341	39.42	-8.20	31.22	46.00	-14.78	QP			



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Site: 1# Chamber

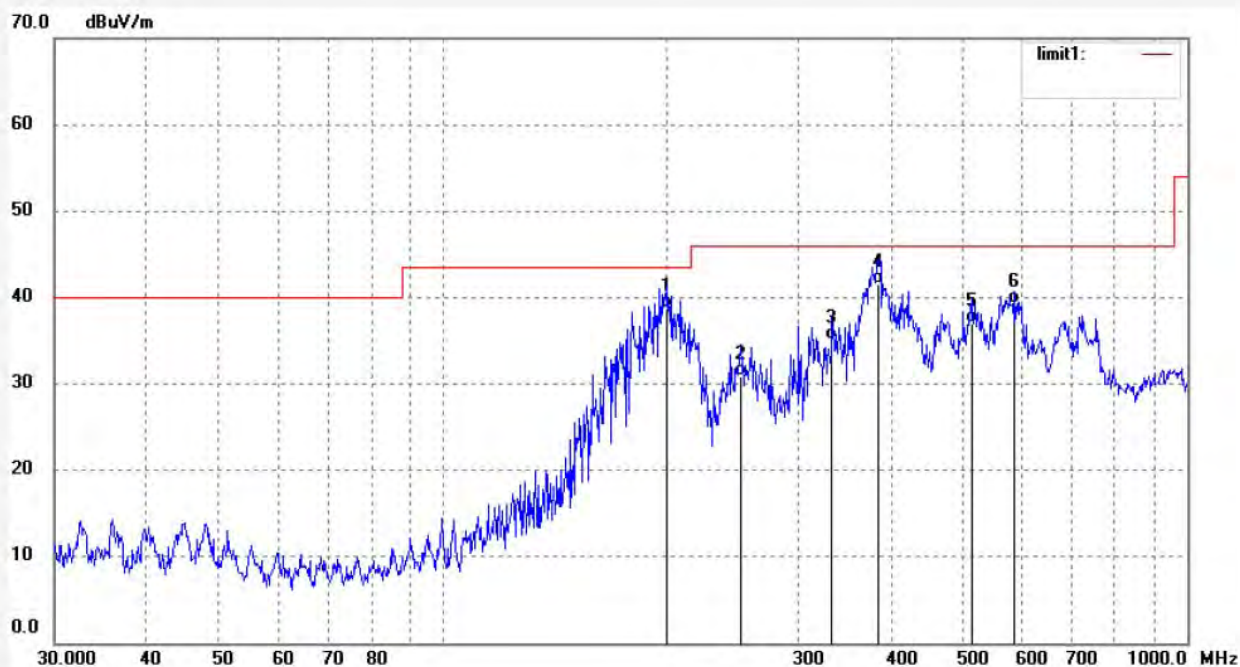
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2018 #95
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Sports Bluetooth Earphone
Mode: TX 2480MHz (GFSK)
Model: MEE audio X6
Manufacturer: S2E, Inc.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 18/03/23/
Time: 14/04/28
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	200.0432	57.54	-18.71	38.83	43.50	-4.67	QP			
2	251.3676	49.00	-18.10	30.90	46.00	-15.10	QP			
3	332.9534	50.26	-15.22	35.04	46.00	-10.96	QP			
4	384.5446	55.69	-14.13	41.56	46.00	-4.44	QP			
5	512.9477	49.00	-11.94	37.06	46.00	-8.94	QP			
6	586.2172	49.57	-10.23	39.34	46.00	-6.66	QP			



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Job No.: STAR2018 #96

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2480MHz (GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

Date: 18/03/23/

Time: 14/05/42

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	192.4590	52.39	-19.22	33.17	43.50	-10.33	QP			
2	352.2074	44.82	-14.55	30.27	46.00	-15.73	QP			
3	389.9873	52.11	-14.09	38.02	46.00	-7.98	QP			
4	538.8106	49.58	-11.37	38.21	46.00	-7.79	QP			
5	677.0515	40.05	-8.36	31.69	46.00	-14.31	QP			
6	747.0465	36.78	-6.82	29.96	46.00	-16.04	QP			

Above 1GHz



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Job No.: star2018 #8

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

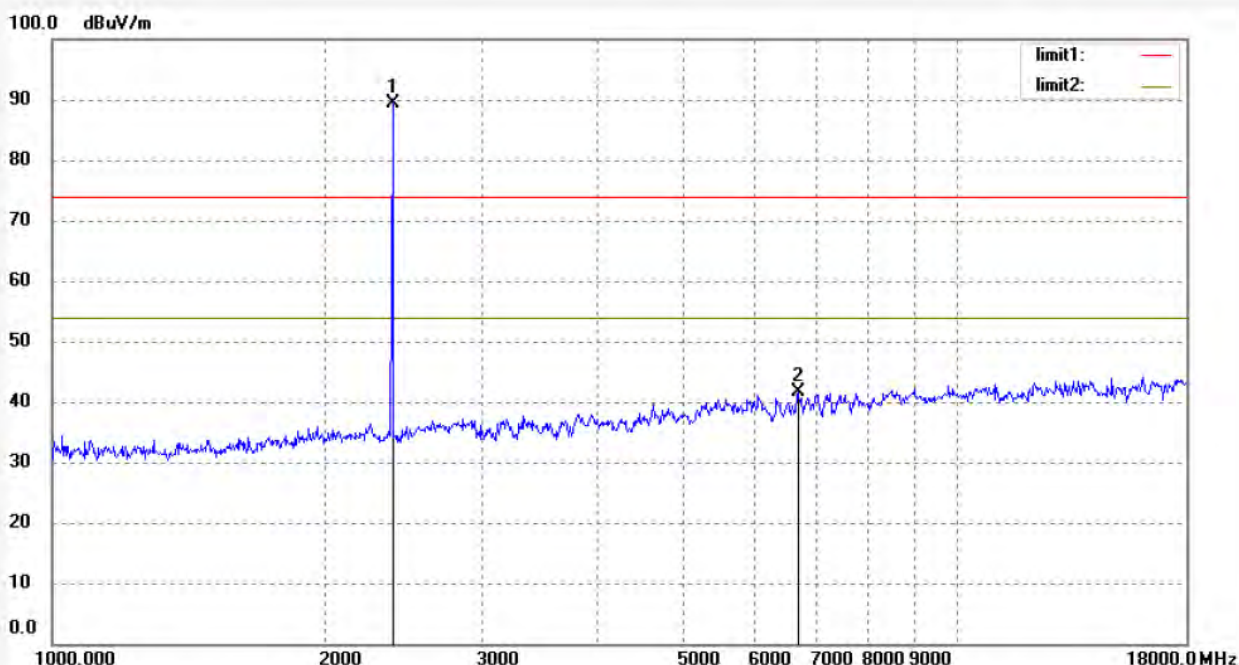
Date: 18/03/23/

Time: 10/18/29

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	97.38	-8.03	89.35			peak			
2	6690.695	40.46	1.28	41.74	74.00	-32.26	peak			



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Job No.: star2018 #7

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

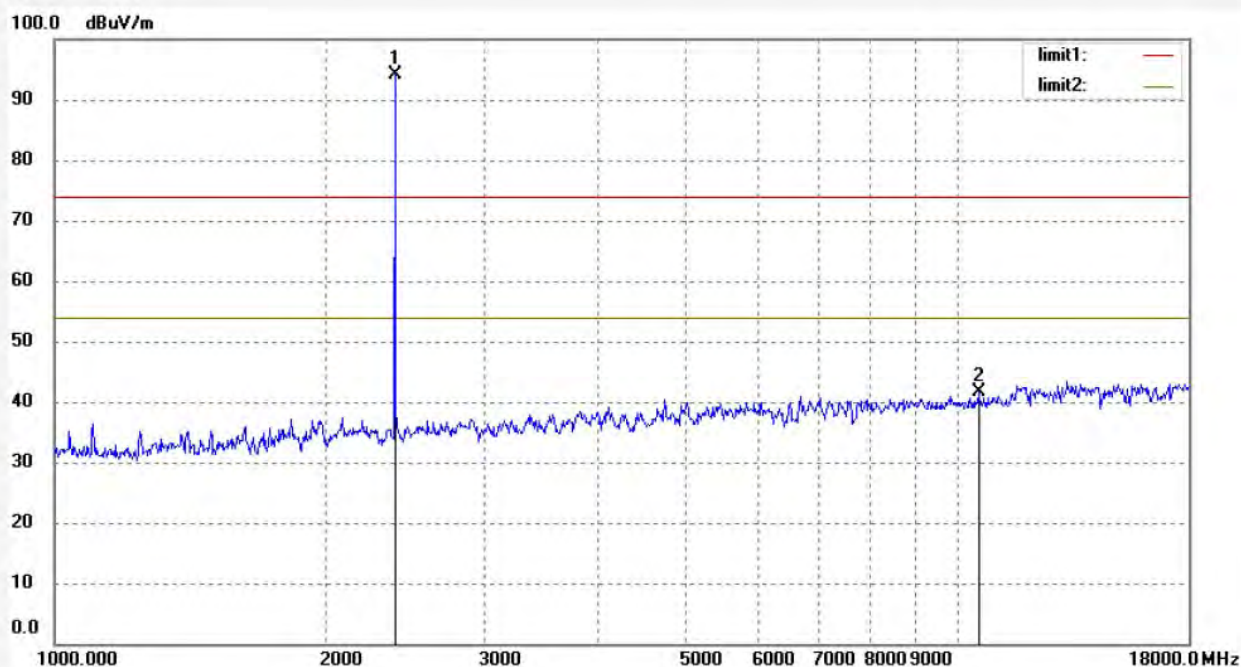
Date: 18/03/23/

Time: 10/16/00

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	102.13	-8.03	94.10			peak			
2	10535.961	36.29	5.43	41.72	74.00	-32.28	peak			



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Job No.: star2018 #9

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2441MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

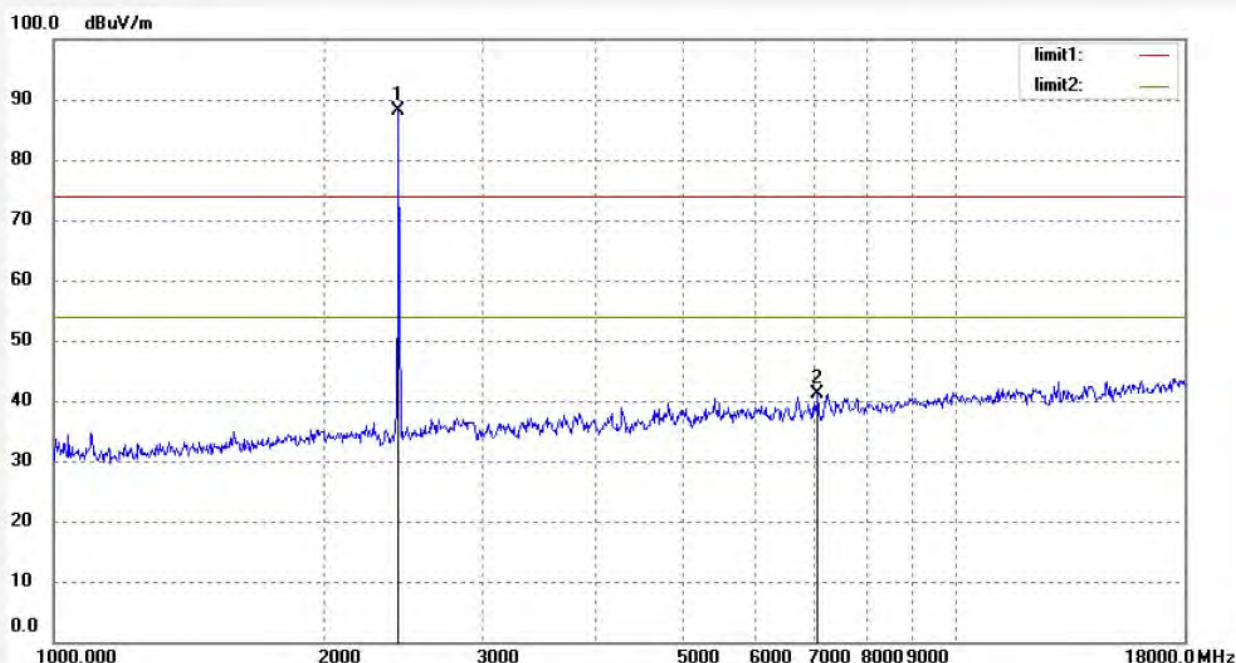
Date: 18/03/23/

Time: 10/20/18

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.121	96.02	-7.93	88.09			peak			
2	7050.590	39.27	1.86	41.13	74.00	-32.87	peak			



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Job No.: star2018 #10

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2441MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

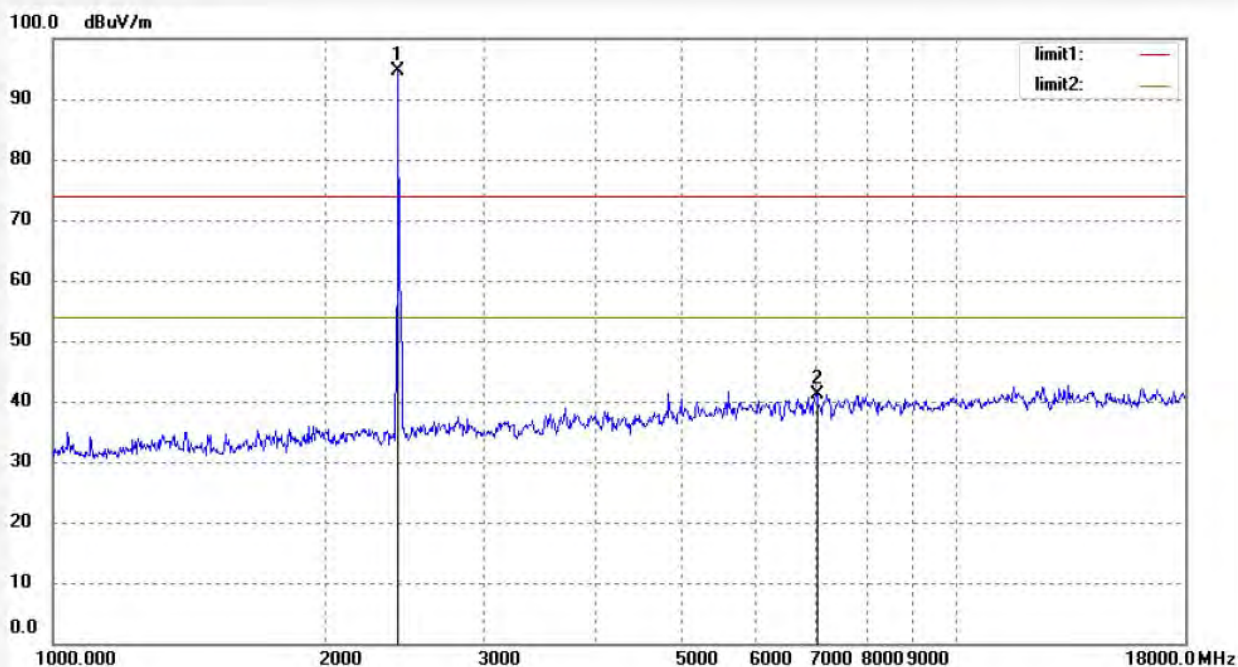
Date: 18/03/23/

Time: 10/22/15

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.121	102.55	-7.93	94.62			peak			
2	7030.097	39.42	1.83	41.25	74.00	-32.75	peak			



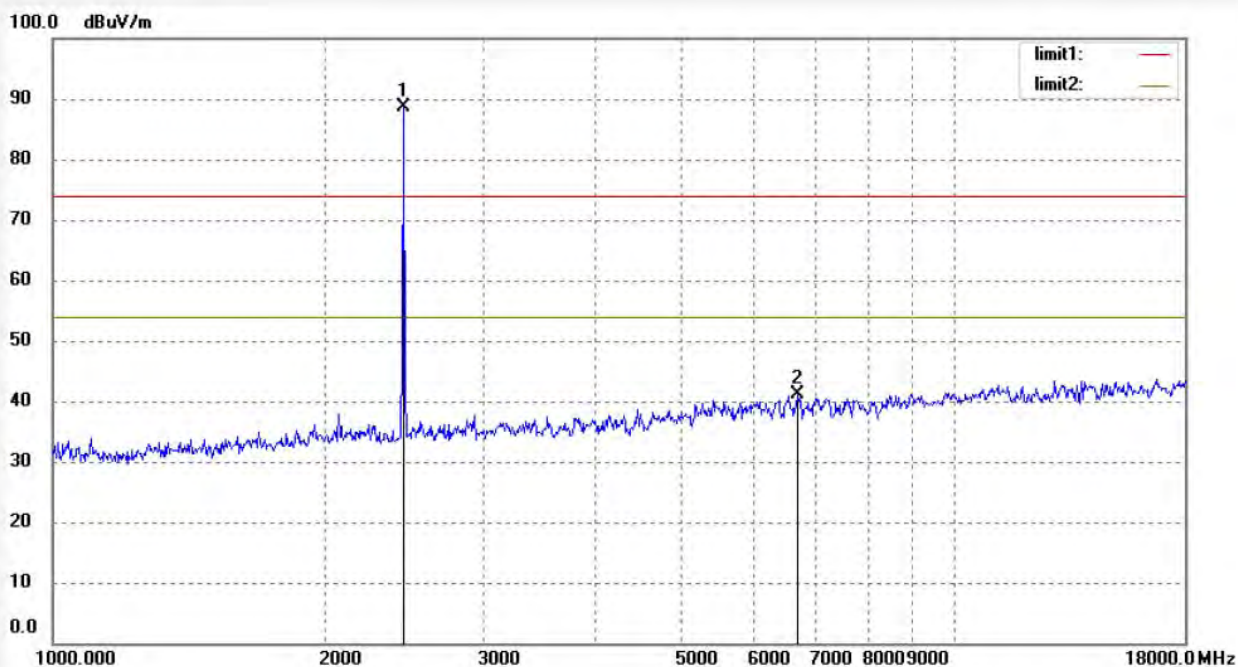
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Job No.: star2018 #12	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 18/03/23/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 10/25/59
EUT: Sports Bluetooth Earphone	Engineer Signature: star
Mode: TX 2480MHz(GFSK)	Distance: 3m
Model: MEE audio X6	
Manufacturer: S2E, Inc.	

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	96.57	-7.84	88.73			peak			
2	6710.199	39.75	1.30	41.05	74.00	-32.95	peak			



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Job No.: star2018 #11

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2480MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

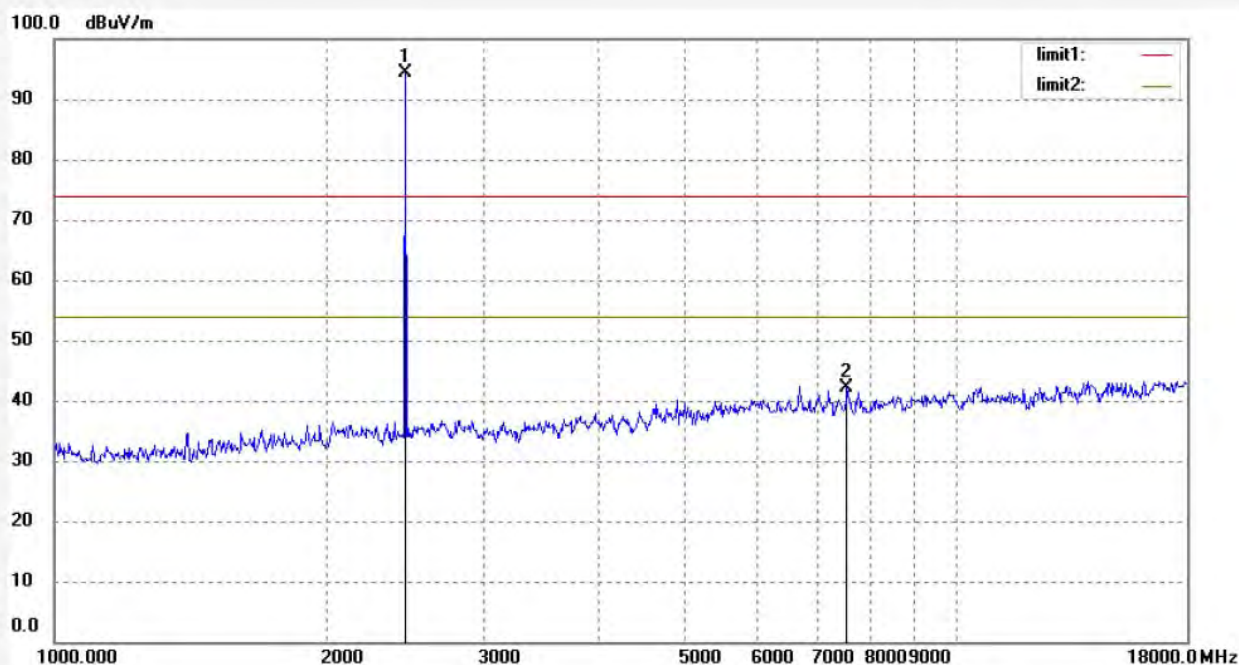
Date: 18/03/23/

Time: 10/24/16

Engineer Signature: star

Distance: 3m

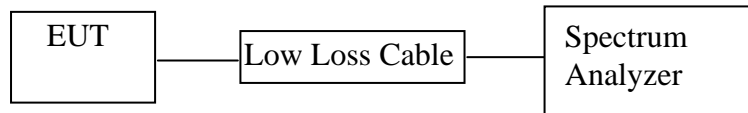
Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	102.26	-7.84	94.42			peak			
2	7560.741	39.62	2.62	42.24	74.00	-31.76	peak			

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: Sports Bluetooth Earphone)

11.2.The Requirement For Section 15.247(d)

Section 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 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 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).

11.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

11.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges was measured and recorded.

11.6. Test Result

Test Lab: Shielding room

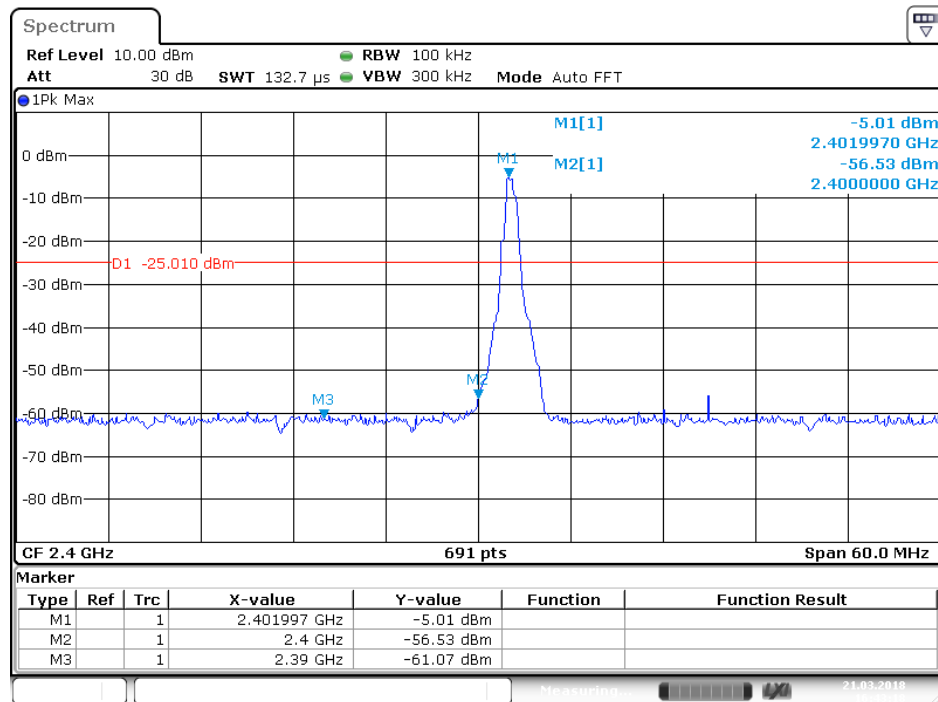
Test Engineer: Star

Note: Both hopping-on mode and hopping-off mode had been pre-tested, and only the worst case was recorded in the test report.

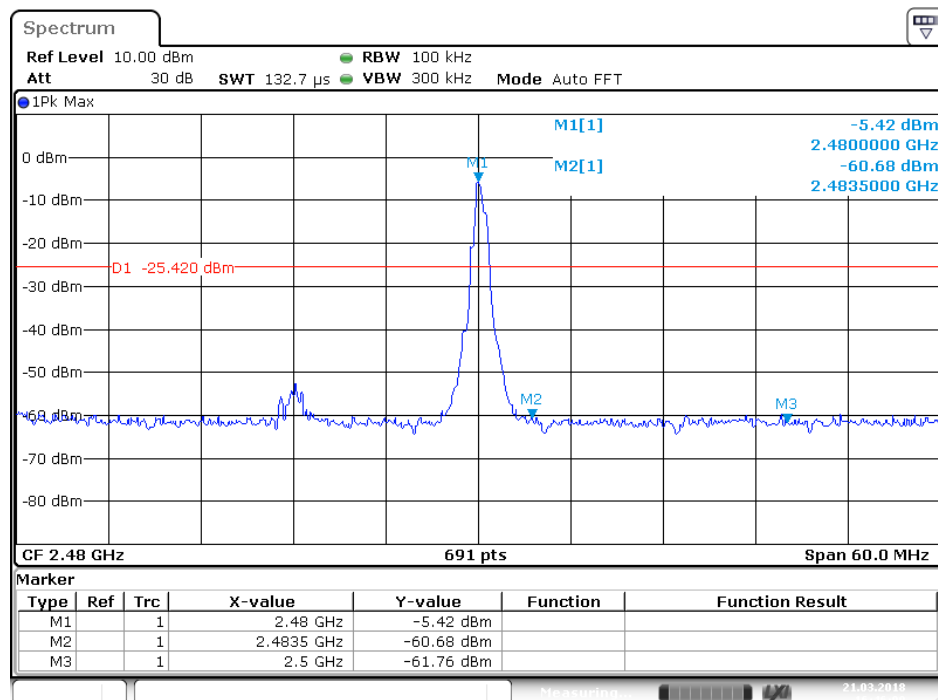
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK Mode		
2400.00	51.52	> 20dBc
2483.50	55.26	> 20dBc
Π/4-DQPSK Mode		
2400.00	48.87	> 20dBc
2483.50	54.96	> 20dBc
8DPSK Mode		
2400.00	45.83	> 20dBc
2483.50	55.01	> 20dBc

The spectrum analyzer plots are attached as below.

GFSK Mode

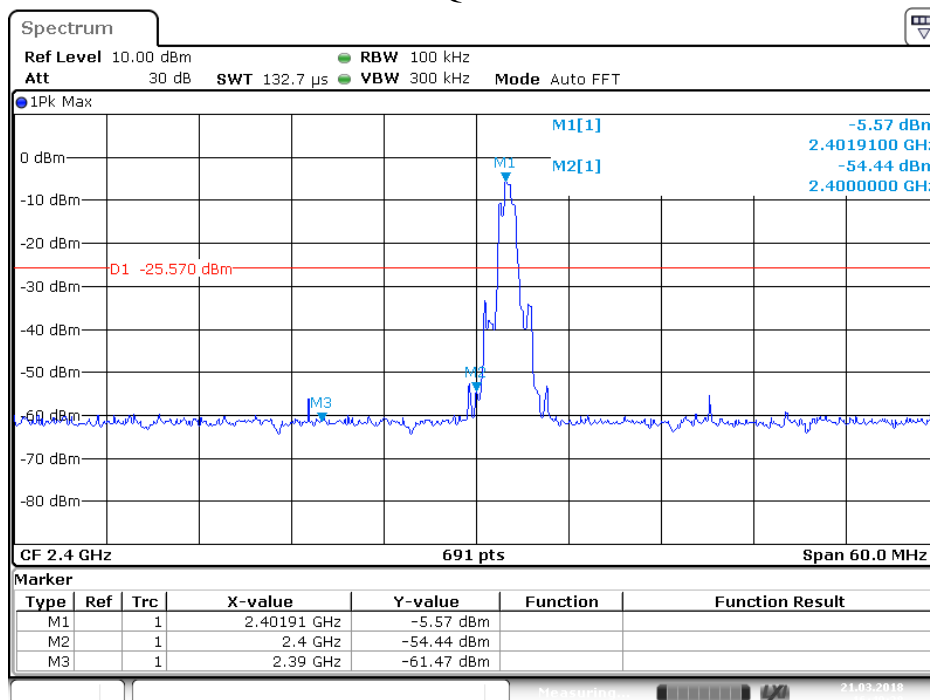


Date: 21.MAR.2018 16:43:19

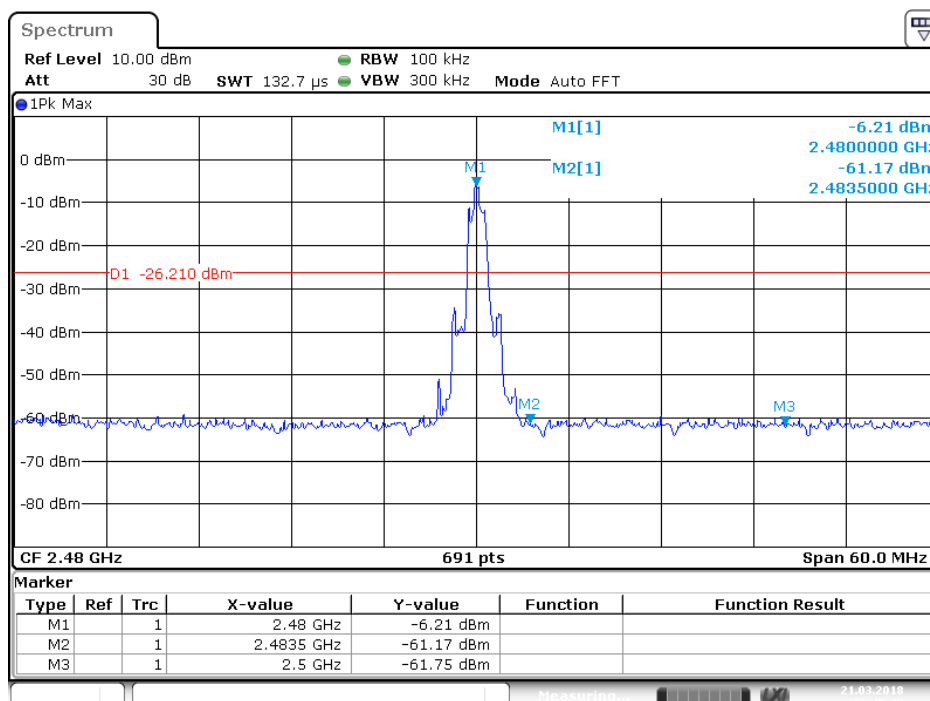


Date: 21.MAR.2018 16:46:09

Π/4-DQPSK Mode

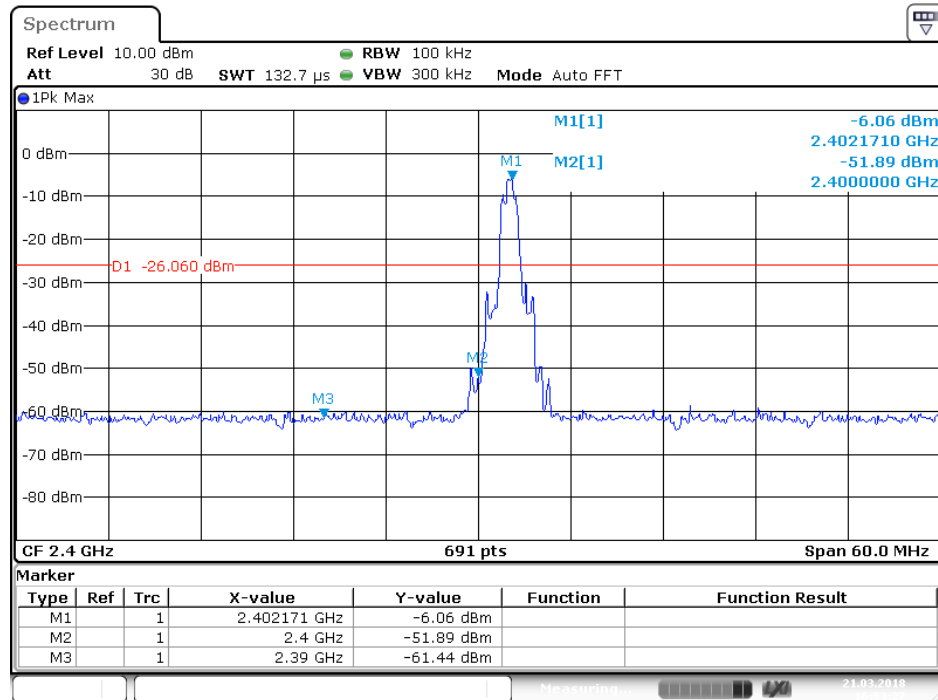


Date: 21.MAR.2018 16:49:39

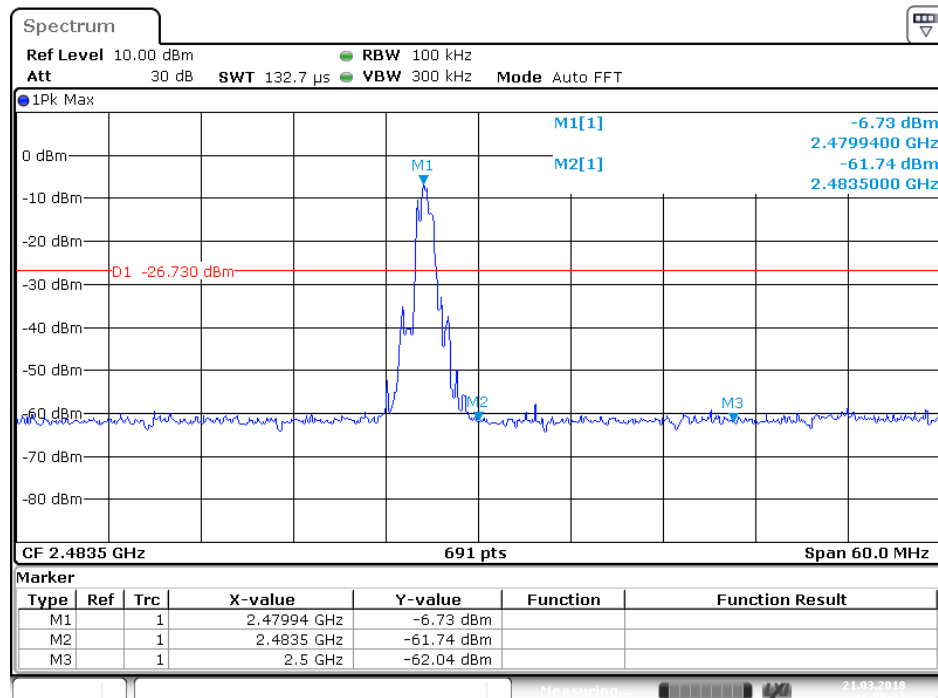


Date: 21.MAR.2018 16:47:45

8DPSK Mode



Date: 21.MAR.2018 16:53:27



Date: 21.MAR.2018 16:55:23

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst case (GFSK mode) emissions are reported.

Test Lab: 3m Anechoic chamber

Test Engineer: Star

Non-hopping mode



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Job No.: star2018 #13

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

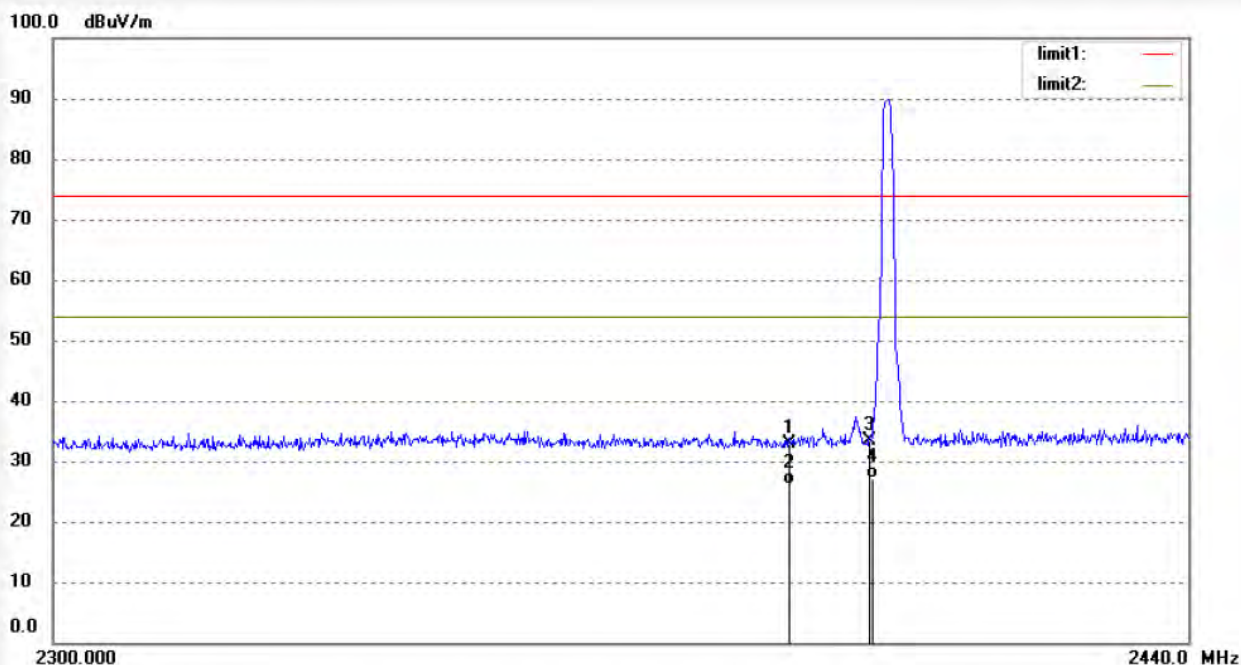
Date: 18/03/23/

Time: 10/28/51

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.98	-8.00	32.98	74.00	-41.02	peak			
2	2390.000	34.06	-8.00	26.06	54.00	-27.94	AVG			
3	2400.000	41.26	-7.97	33.29	74.00	-40.71	peak			
4	2400.000	35.14	-7.97	27.17	54.00	-26.83	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: star2018 #14

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2402MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

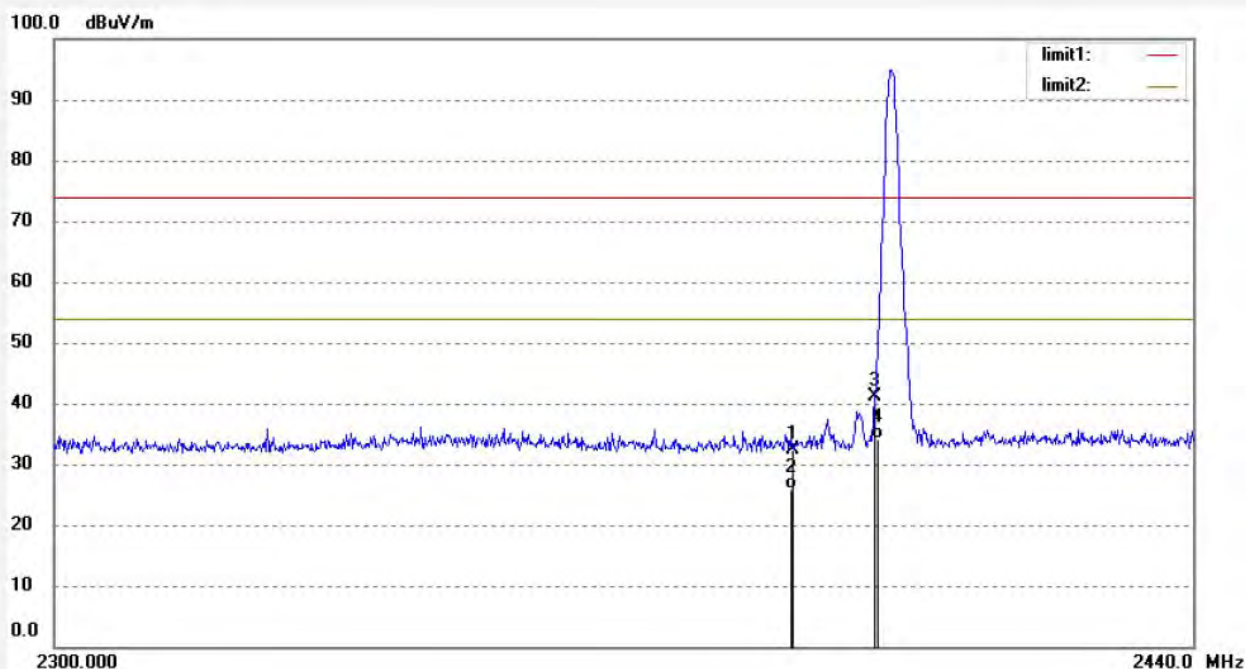
Date: 18/03/23/

Time: 10/30/06

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.30	-8.00	32.30	74.00	-41.70	peak			
2	2390.000	33.84	-8.00	25.84	54.00	-28.16	AVG			
3	2400.000	49.01	-7.97	41.04	74.00	-32.96	peak			
4	2400.000	42.10	-7.97	34.13	54.00	-19.87	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: star2018 #16

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2480MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

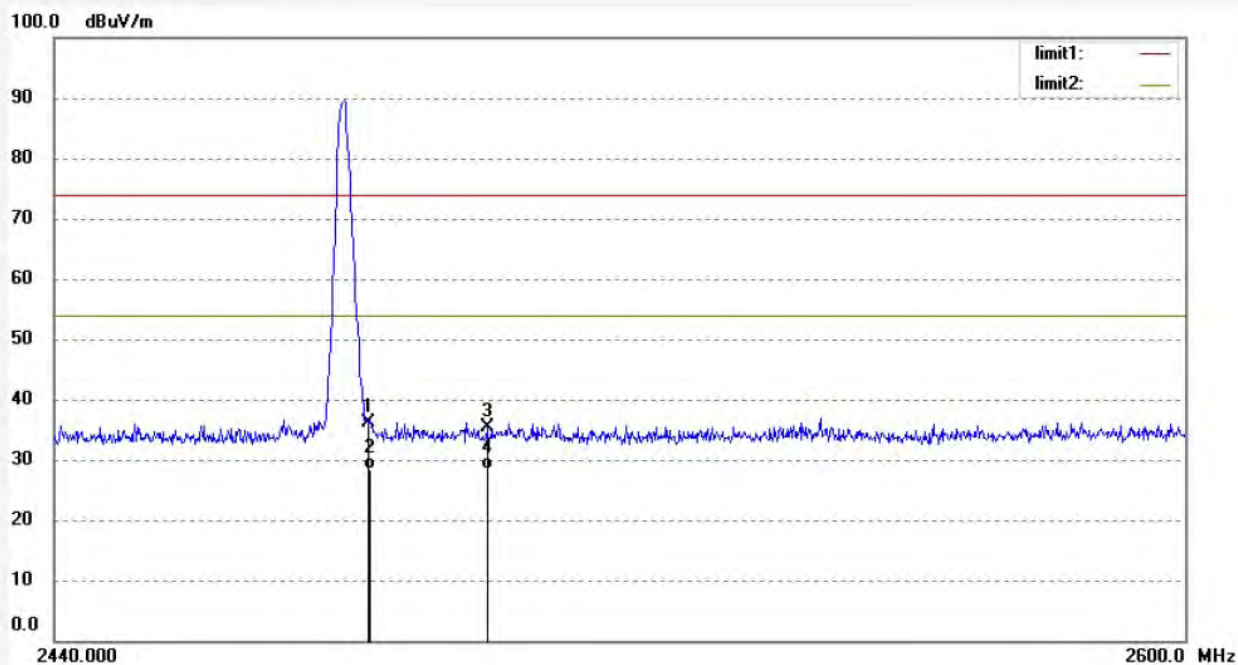
Date: 18/03/23/

Time: 10/33/16

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.91	-7.76	36.15	74.00	-37.85	peak			
2	2483.500	36.10	-7.76	28.34	54.00	-25.66	AVG			
3	2500.000	43.17	-7.71	35.46	74.00	-38.54	peak			
4	2500.000	36.00	-7.71	28.29	54.00	-25.71	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: star2018 #15

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: TX 2480MHz(GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

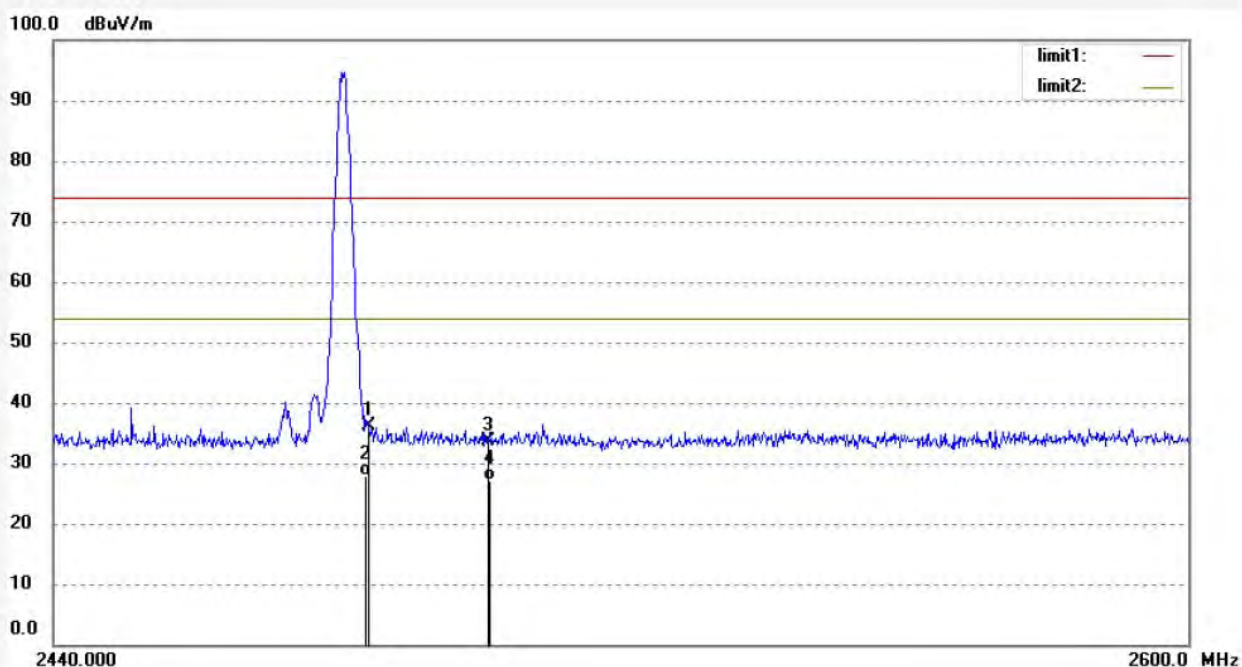
Date: 18/03/23/

Time: 10/32/27

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.86	-7.76	36.10	74.00	-37.90	peak			
2	2483.500	35.67	-7.76	27.91	54.00	-26.09	AVG			
3	2500.000	41.44	-7.71	33.73	74.00	-40.27	peak			
4	2500.000	34.95	-7.71	27.24	54.00	-26.76	AVG			

Note: Average measurement with peak detection at No.2&4

Hopping mode



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Job No.: STAR2018 #89

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: Hopping (GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Horizontal

Power Source: DC 3.7V

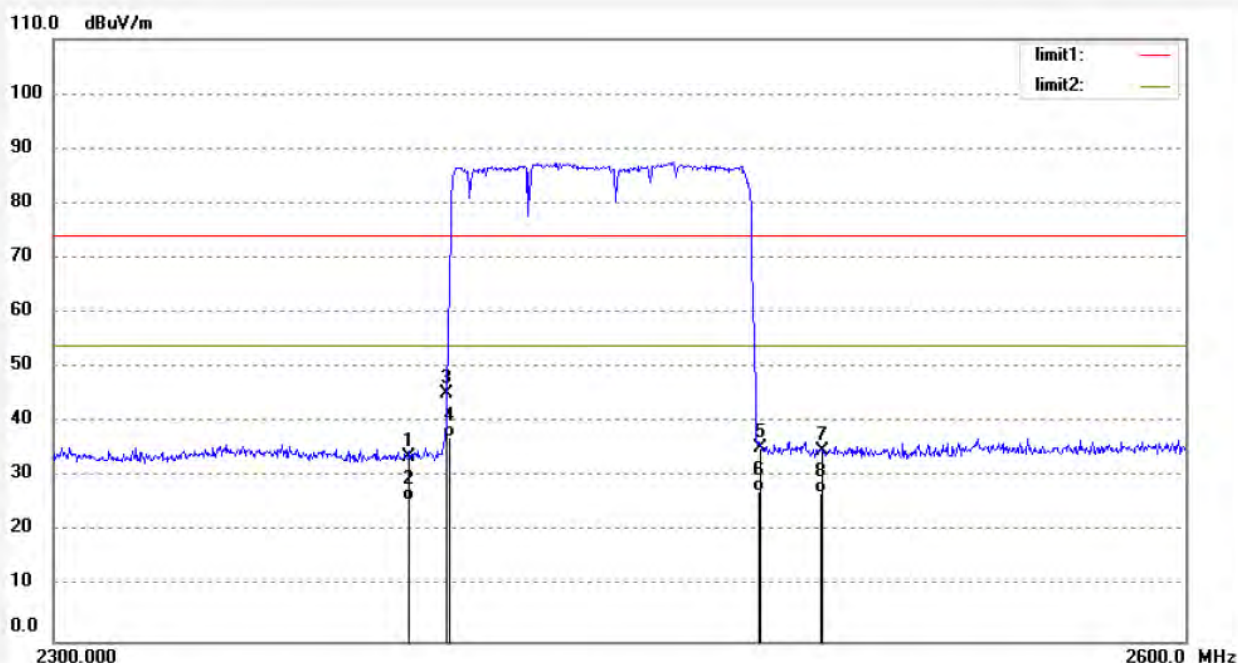
Date: 18/03/23/

Time: 13/50/41

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.64	-8.00	33.64	74.00	-40.36	peak			
2	2390.000	33.62	-8.00	25.62	54.00	-28.38	AVG			
3	2400.000	53.12	-7.97	45.15	74.00	-28.85	peak			
4	2400.000	45.22	-7.97	37.25	54.00	-16.75	AVG			
5	2483.500	43.01	-7.76	35.25	74.00	-38.75	peak			
6	2483.500	35.01	-7.76	27.25	54.00	-26.75	AVG			
7	2500.000	42.59	-7.71	34.88	74.00	-39.12	peak			
8	2500.000	34.78	-7.71	27.07	54.00	-26.93	AVG			

Note: Average measurement with peak detection at No.2&4&6&8



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Job No.: STAR2018 #90

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Sports Bluetooth Earphone

Mode: Hopping (GFSK)

Model: MEE audio X6

Manufacturer: S2E, Inc.

Polarization: Vertical

Power Source: DC 3.7V

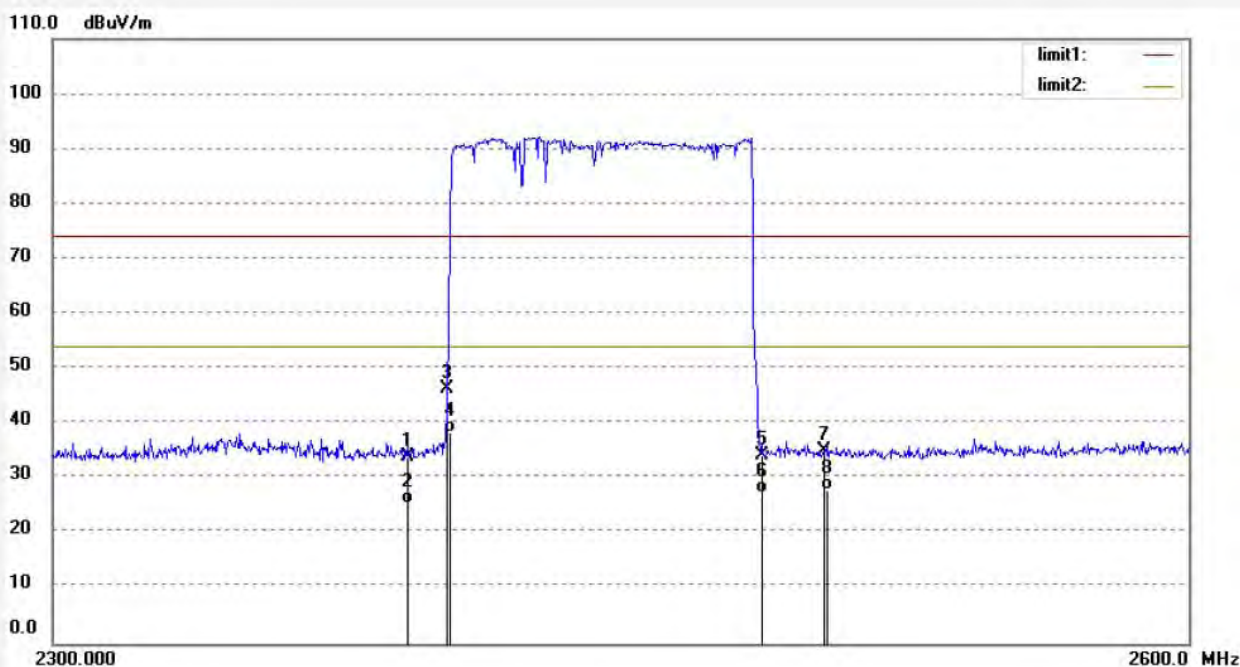
Date: 18/03/23/

Time: 13/53/43

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180397



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.92	-8.00	33.92	74.00	-40.08	peak			
2	2390.000	33.54	-8.00	25.54	54.00	-28.46	AVG			
3	2400.000	54.36	-7.97	46.39	74.00	-27.61	peak			
4	2400.000	46.20	-7.97	38.23	54.00	-15.77	AVG			
5	2483.500	42.06	-7.76	34.30	74.00	-39.70	peak			
6	2483.500	35.03	-7.76	27.27	54.00	-26.73	AVG			
7	2500.000	42.67	-7.71	34.96	74.00	-39.04	peak			
8	2500.000	35.69	-7.71	27.98	54.00	-26.02	AVG			

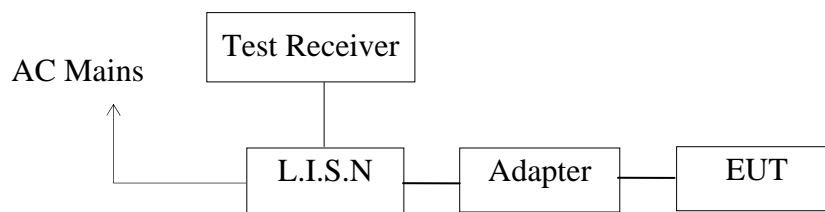
Note: Average measurement with peak detection at No.2&4&6&8

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

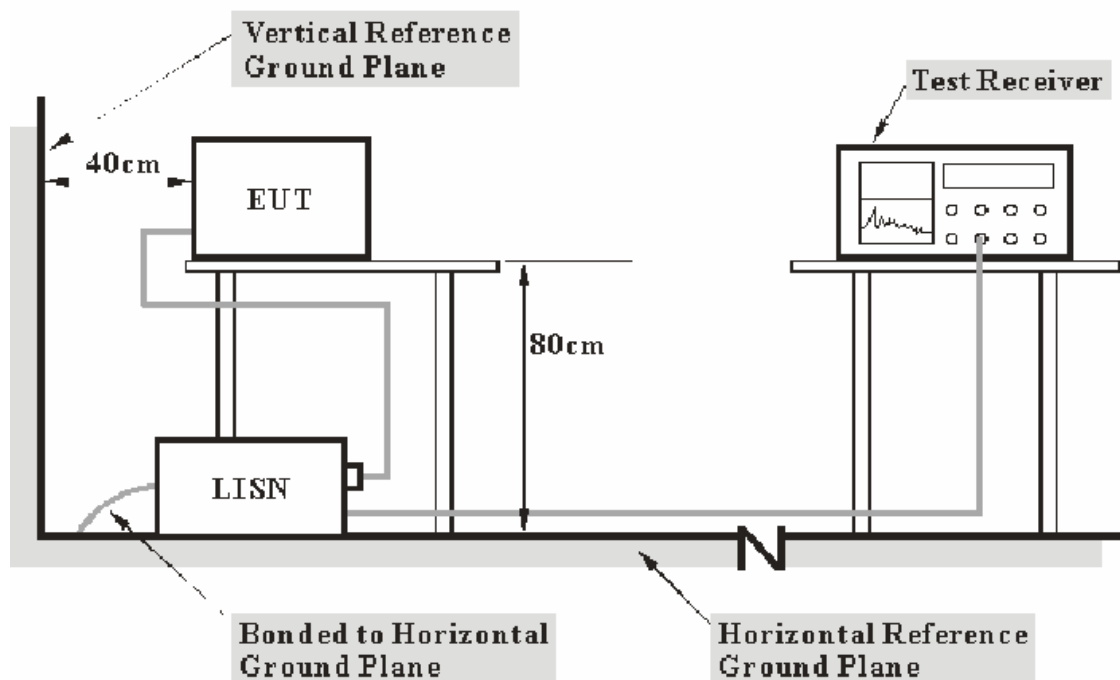
12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



(EUT: Sports Bluetooth Earphone)

12.1.2.Test System Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

12.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies.		
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

12.3.Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 12.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in test mode and measure it.

12.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

12.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.5	51.1	34.2	56.0	46.0	4.9	11.8	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dBμV) = Limit stated in standard

Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:

Margin = Limit (dBμV) - Level (dBμV)

12.7.Power Line Conducted Emission Measurement Results

PASS.

Test Lab: Shielding room

Test Engineer: Star

The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.
Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

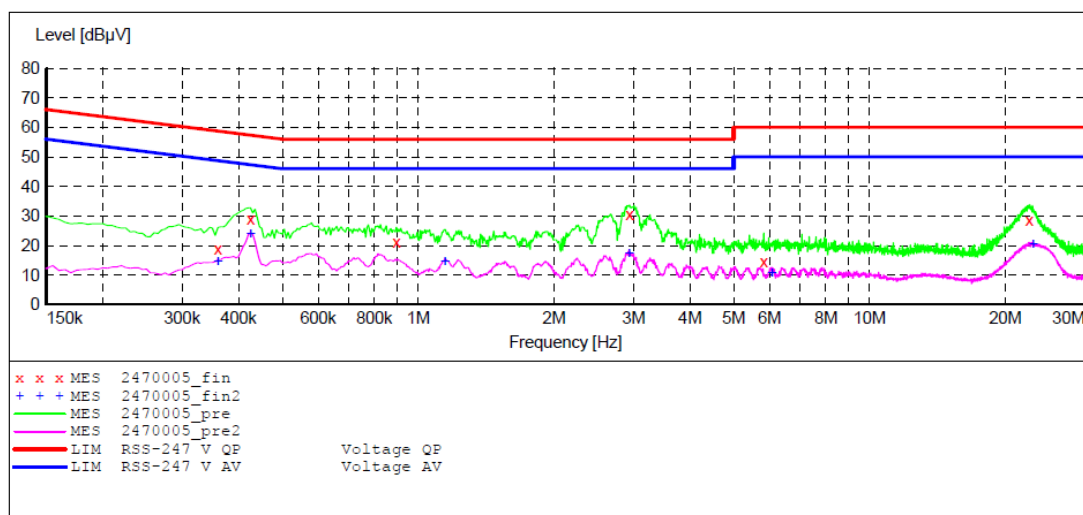
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Sports Bluetooth Earphone M/N:MEE audio X6
 Manufacturer: S2E, Inc.
 Operating Condition: BT Communication
 Test Site: 1#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20180397
 Start of Test: 3/24/2018 / 5:17:19PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "2470005_fin"

3/24/2018 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.360000	18.80	10.6	59	39.9	QP	N	GND
0.425000	28.80	10.7	57	28.5	QP	N	GND
0.895000	21.20	10.8	56	34.8	QP	N	GND
2.940000	30.50	11.1	56	25.5	QP	N	GND
5.830000	14.60	11.2	60	45.4	QP	N	GND
22.585000	28.70	11.4	60	31.3	QP	N	GND

MEASUREMENT RESULT: "2470005_fin2"

3/24/2018 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.360000	14.50	10.6	49	34.2	AV	N	GND
0.425000	24.00	10.7	47	23.3	AV	N	GND
1.145000	14.40	10.9	46	31.6	AV	N	GND
2.930000	17.30	11.1	46	28.7	AV	N	GND
6.070000	10.70	11.2	50	39.3	AV	N	GND
23.020000	20.20	11.4	50	29.8	AV	N	GND

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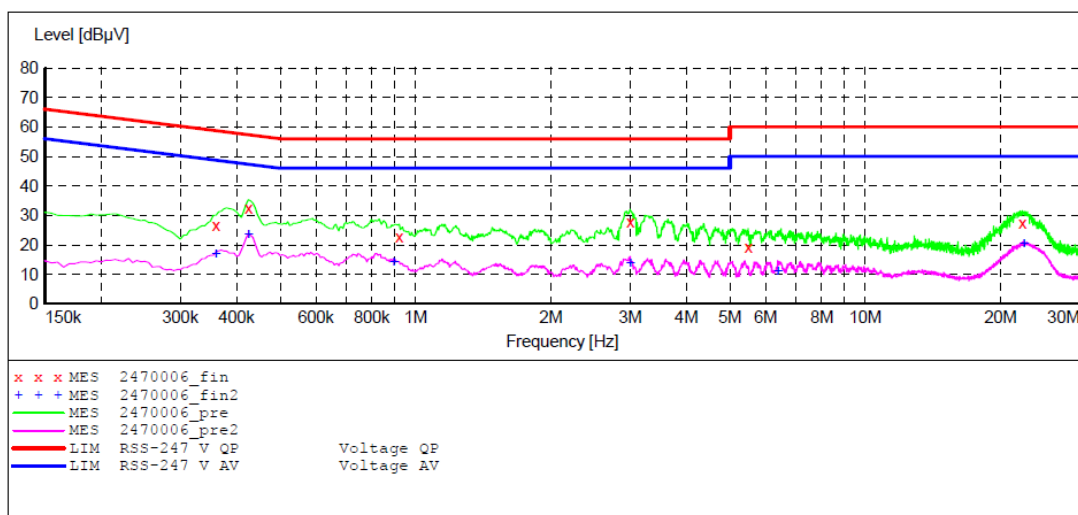
CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Sports Bluetooth Earphone M/N:MEE audio X6
 Manufacturer: S2E, Inc.
 Operating Condition: BT Communication
 Test Site: 1#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20180397
 Start of Test: 3/24/2018 / 5:21:20PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average			
			QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			



MEASUREMENT RESULT: "2470006_fin"

3/24/2018 5:24PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.360000	26.60	10.6	59	32.1	QP	L1	GND
0.425000	32.60	10.7	57	24.7	QP	L1	GND
0.920000	22.50	10.8	56	33.5	QP	L1	GND
3.000000	27.70	11.1	56	28.3	QP	L1	GND
5.490000	19.40	11.2	60	40.6	QP	L1	GND
22.360000	27.30	11.4	60	32.7	QP	L1	GND

MEASUREMENT RESULT: "2470006_fin2"

3/24/2018 5:24PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.360000	16.80	10.6	49	31.9	AV	L1	GND
0.425000	23.30	10.7	47	24.0	AV	L1	GND
0.895000	14.10	10.8	46	31.9	AV	L1	GND
3.000000	13.60	11.1	46	32.4	AV	L1	GND
6.390000	11.10	11.2	50	38.9	AV	L1	GND
22.540000	20.20	11.4	50	29.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

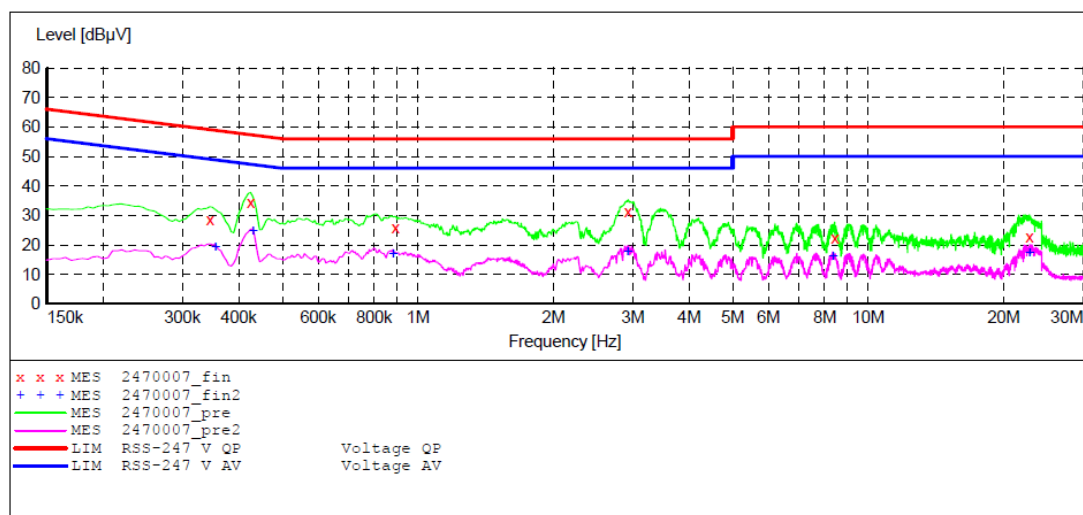
CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Sports Bluetooth Earphone M/N:MEE audio X6
 Manufacturer: S2E, Inc.
 Operating Condition: BT Communication
 Test Site: 1#Shielding Room
 Operator: star
 Test Specification: L 240V/60Hz
 Comment: Report No.:ATE20180397
 Start of Test: 3/24/2018 / 5:25:34PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average			
			QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			



MEASUREMENT RESULT: "2470007_fin"

3/24/2018 5:29PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.345000	28.70	10.6	59	30.4	QP	L1	GND
0.425000	34.40	10.7	57	22.9	QP	L1	GND
0.890000	25.70	10.8	56	30.3	QP	L1	GND
2.930000	31.40	11.1	56	24.6	QP	L1	GND
8.420000	22.40	11.3	60	37.6	QP	L1	GND
22.780000	22.60	11.4	60	37.4	QP	L1	GND

MEASUREMENT RESULT: "2470007_fin2"

3/24/2018 5:29PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.355000	19.10	10.6	49	29.7	AV	L1	GND
0.430000	24.80	10.7	47	22.5	AV	L1	GND
0.880000	16.90	10.8	46	29.1	AV	L1	GND
2.920000	17.80	11.1	46	28.2	AV	L1	GND
8.340000	15.90	11.3	50	34.1	AV	L1	GND
22.825000	17.10	11.4	50	32.9	AV	L1	GND

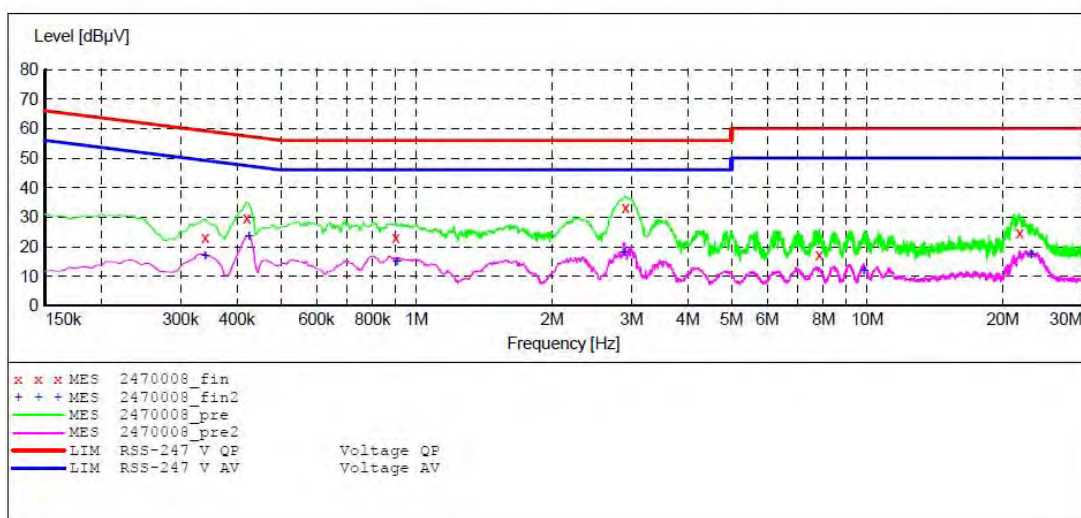
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Sports Bluetooth Earphone M/N:MEE audio X6
 Manufacturer: S2E, Inc.
 Operating Condition: BT Communication
 Test Site: 1#Shielding Room
 Operator: star
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20180397
 Start of Test: 3/24/2018 / 5:29:37PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "2470008_fin"

3/24/2018 5:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.340000	22.90	10.6	59	36.3	QP	N	GND
0.420000	29.70	10.7	57	27.7	QP	N	GND
0.900000	22.90	10.8	56	33.1	QP	N	GND
2.910000	33.40	11.0	56	22.6	QP	N	GND
7.820000	17.30	11.2	60	42.7	QP	N	GND
21.775000	24.70	11.4	60	35.3	QP	N	GND

MEASUREMENT RESULT: "2470008_fin2"

3/24/2018 5:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.340000	16.70	10.6	49	32.5	AV	N	GND
0.425000	23.30	10.7	47	24.0	AV	N	GND
0.905000	15.00	10.8	46	31.0	AV	N	GND
2.890000	18.00	11.0	46	28.0	AV	N	GND
9.830000	11.80	11.3	50	38.2	AV	N	GND
23.095000	17.20	11.4	50	32.8	AV	N	GND

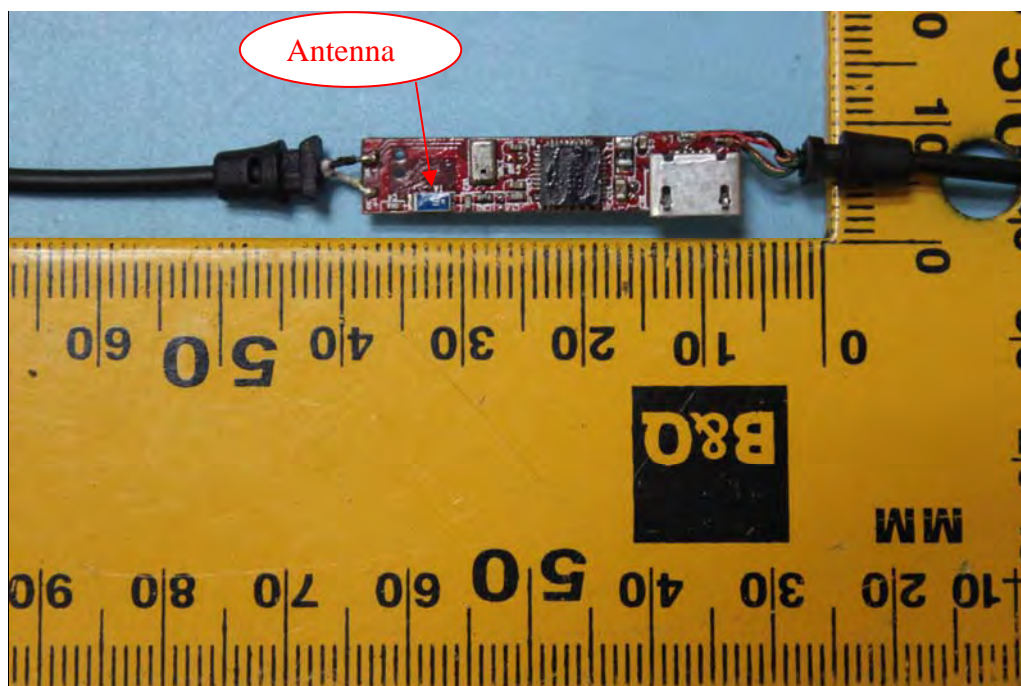
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 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.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2.64dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



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