

FCC Test Report

Report No.: AGC03329181203FE03

FCC ID 2AAXO-SML640

APPLICATION PURPOSE Original Equipment

PRODUCT DESIGNATION PORTABLE KARAOKE PLAYER WITH BLUETOOTH

BRAND NAME singing machine

SML640, SML642, SML640I, SML642XX and SML640XX **MODEL NAME**

(XX means unit color, it can be A to Z or N/A)

CLIENT The Singing Machine Company, Inc.

DATE OF ISSUE Apr. 22, 2019

STANDARD(S) FCC Part 15.247

REPORT VERSION V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|---------------------|---------------|---------------|-----------------|
| V1.0 | Allores / Signature | Apr. 22, 2019 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| 4 | | | |
|--------------------------|--|--|--|
| Applicant | The Singing Machine Company, Inc. | | |
| Address | 6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA | | |
| Manufacturer | SHENZHEN JUNLAN ELECTRONIC LTD | | |
| Address | No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China | | |
| Factory | SHENZHEN JUNLAN ELECTRONIC LTD | | |
| Address | No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China | | |
| Product Designation | PORTABLE KARAOKE PLAYER WITH BLUETOOTH | | |
| Brand Name | singing machine | | |
| Test Model | SML640 | | |
| Series Model | SML642, SML640J, SML642XX and SML640XX (XX means unit color, it can be A to Z or N/A) | | |
| Difference Description | All the same except for the model name and front appearance color | | |
| Date of test | Mar. 27, 2019 to Apr. 19, 2019 | | |
| Deviation | None Market Control of the Control o | | |
| Condition of Test Sample | Normal | | |
| Test Result | Pass Statement of the s | | |
| Report Template | AGCRT-US-BR/RF | | |
| 11. 70. | | | |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

| Tested By | sky dong | The state of the s |
|-------------|--|--|
| | Sky Dong(Dong Huihui) | Apr. 22, 2019 |
| Reviewed By | Max 2h | any |
| | Max Zhang(Zhang Yi) | Apr. 22, 2019 |
| Approved By | Forrest | |
| | Forrest Lei(Lei Yonggang) Authorized Officer | Apr. 22, 2019 |

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "PORTABLE KARAOKE PLAYER WITH BLUETOOTH". It is designed by way or utilizing the GFSK and Pi/4 DQPSK technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency | 2.402 GHz to 2.480GHz |
|---------------------|---|
| RF Output Power | 4.178dBm(Max) |
| Bluetooth Version | V5.0 |
| Modulation | BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps |
| Number of channels | 79 C |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | PCB Antenna |
| Antenna Gain | 0dBi |
| Power Supply | DC 9V by adapter or DC 7.4V by battery |

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2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency | |
|----------------|---------------------------|-----------|--|
| | 0 | 2402MHZ | |
| | © ## January of Colonia O | 2403MHZ | |
| | O' GO! | : ## | |
| | 38 | 2440 MHZ | |
| 2402~2480MHZ | 39 | 2441 MHZ | |
| | 40 0 | 2442 MHZ | |
| | | | |
| | 77 | 2479 MHZ | |
| | 78 | 2480 MHZ | |

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

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2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits), 4LSB's (4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: **2AAXO-SML640** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

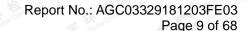
2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

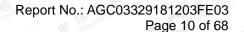
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: Uc = ±2 %

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|--------------|--------------------------|
| 1 | Low channel GFSK |
| 2 | Middle channel GFSK |
| © 3 | High channel GFSK |
| 3 4 | Low channel π/4-DQPSK |
| 5 | Middle channel π/4-DQPSK |
| 3 4 6 | High channel π/4-DQPSK |
| 7-C | Hopping mode GFSK |
| 8 | Hopping mode π/4-DQPSK |

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

| | | © # | k N com | |
|---|-----|-------------|---------|--|
|) | EUT | <u>,G</u> * | AE | |
| 1 | | | | |

Conducted Emission Configure:

| 100 mg/m 1000 | | | |
|---------------|--|----|--|
| EUT | The Management of the Control of the | AE | |
| | E Global Co | | |

5.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|--|------------------|--|-------------------|
| 1 | PORTABLE KARAOKE PLAYER WITH BLUETOOTH | | 2AAXO-SML640 | EUT |
| 2 | Load | RX24-50W | 50Ω | AE |
| 3 | MIC | JYD02 | N/A | Marketed With EUT |
| 4 ® | Adapter 1 | GKYPS0150090US1 | Input:100-240V~50/60Hz,0.5A Output:DC 9V/1500mA | Marketed With EUT |
| 5 | Adapter 2 | JY014090150AA-UL | Input:100-240V~50/60Hz,1.0A Output:DC 9V/1.5A | Marketed With EUT |
| 6 | battery | PL804362P | 7.4V,2500mAh | Marketed With EUT |

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5.3. SUMMARY OF TEST RESULTS

| FCC RULES DESCRIPTION OF TEST 15.247 Peak Output Power | | RESULT | |
|---|-----------------------------|-----------|--|
| | | Compliant | |
| 15.247 | 20 dB Bandwidth | Compliant | |
| 15.247 | Spurious Emission | Compliant | |
| 15.247&15.209 | Radiated Emission | Compliant | |
| 15.247 | Number of Hopping Frequency | Compliant | |
| 15.247 | Time of Occupancy | Compliant | |
| 15.247 | Frequency Separation | Compliant | |
| 15.207 Conducted Emission | | Compliant | |

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6. TEST FACILITY

| Test S | Site | Attestation of | Attestation of Global Compliance (Shenzhen) Co., Ltd | | | | |
|-------------------------|---------|----------------|--|------|---------|-----------------------|--|
| Locat | ion | | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China | | | | |
| Designation | Number | CN1259 | (S) Allostation of C | 10 | NO | | |
| FCC Tes Registration | | 975832 | G m | 7711 | ## ##!» | The Manual Completion | |
| A2LA Ce | rt. No. | 5054.02 | | | | | |
| Descrip | otion | Attestation of | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA | | | | |

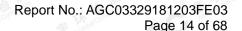
TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|---------|--------|---------------|---------------|
| TEST RECEIVER | R&S | ESPI | 101206 | Jun. 12, 2018 | Jun. 11, 2019 |
| LISN | R&S | ESH2-Z5 | 100086 | Aug. 28, 2018 | Aug. 27, 2019 |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|-----------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 12, 2018 | Jun. 11, 2019 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 20, 2018 | Dec. 19, 2019 |
| 2.4GHz Fliter | Micro-tronics | 087 | N/A | Jun. 12, 2018 | Jun. 11, 2019 |
| Attenuator | Weinachel Corp | 58-30-33 | N/A | Jun. 12, 2018 | Jun. 11, 2019 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 21, 2017 | Sep. 20, 2020 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Jun. 14, 2018 | Jun. 13, 2020 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May. 26, 2018 | May. 25, 2020 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Oct. 25, 2018 | Oct. 24, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep. 28, 2017 | Sep. 27, 2019 |

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

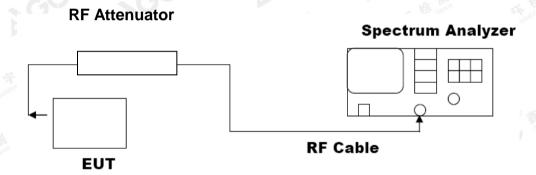
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

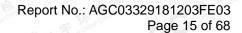
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

| | PEAK OUTPUT POWER MEASU FOR GFSK MOUDUL | | |
|--------------------|--|-------------------------|--------------|
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.402 | 3.448 | 30 | Pass |
| 2.441 | 3.571 | 30 | Pass |
| 2.480 | 3.426 | 30 | Pass |

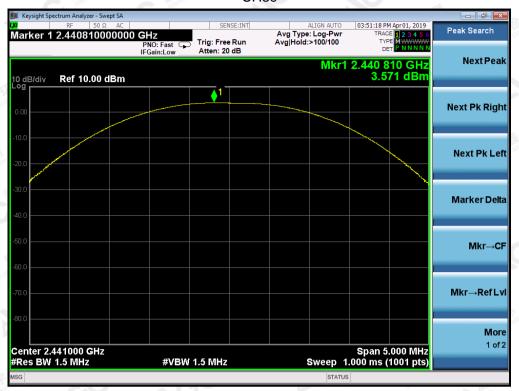
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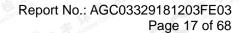


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| FOR II /4-DQPSK MODULATION | | | | |
|----------------------------|---------------------|-------------------------|--------------|--|
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail | |
| 2.402 | 4.064 | 30 | Pass | |
| 2.441 | 4.178 | 30 | Pass | |
| 2.480 | 4.030 | 30 | Pass | |

CH₀



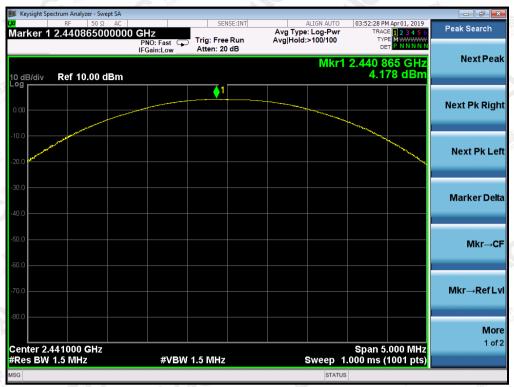
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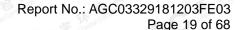
CH39



CH78



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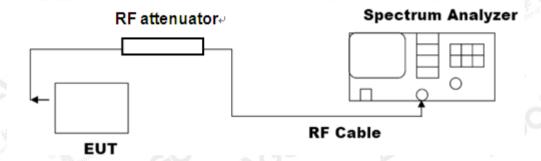


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

| MEASUREMENT RESULT FOR GFSK MOUDULATION | | | | | |
|---|----------------|--------------|-----------------|------|--|
| Measurement Result | | | | ılt | |
| Applicable | Limits | Test Da | Test Data (MHz) | | |
| N/A | Low Channel | 0.8745 | PASS | | |
| | Middle Channel | 0.8797 | PASS | | |
| CO CO | | High Channel | 0.8806 | PASS | |

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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| MEASUREMENT RESULT FOR ∏ /4-DQPSK MODULATION | | | | |
|--|--------------------------|-------|----------|--|
| Measurement Result | | | | |
| Applicable Limits | Test Data (MHz) Criteria | | Criteria | |
| N/A | Low Channel | 1.268 | PASS | |
| | Middle Channel | 1.303 | PASS | |
| The Market The Table | High Channel | 1.269 | PASS | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

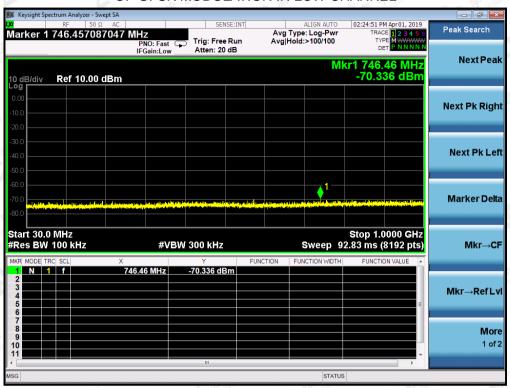
| LIMITS AND MEASUREMENT RESULT | | | | |
|---|--|----------|--|--|
| Applicable Limite | Measurement Result | | | |
| Applicable Limits | Test Data | Criteria | | |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS | | |
| power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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)) | At least -20dBc than the limit Specified on the TOP Channel | PASS | | |

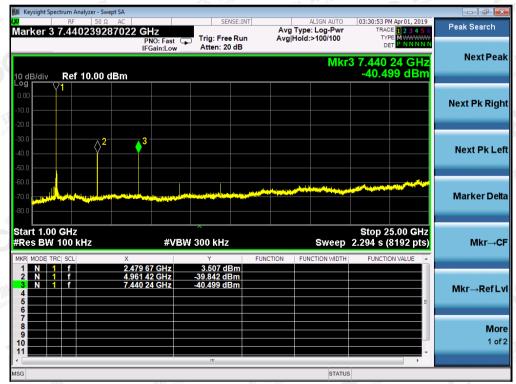
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TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF GFSK MODULATION IN LOW CHANNEL





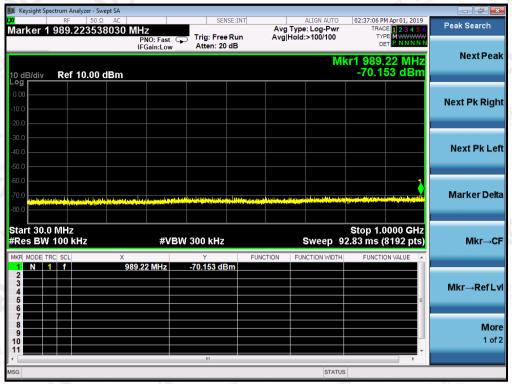
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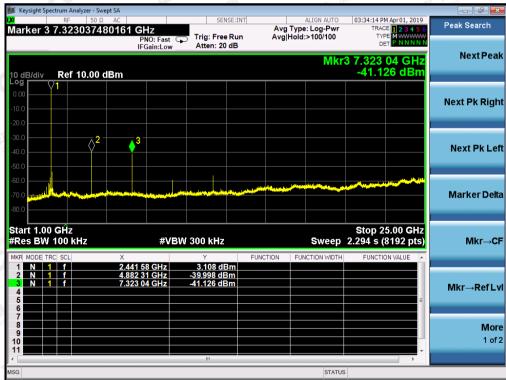
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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL





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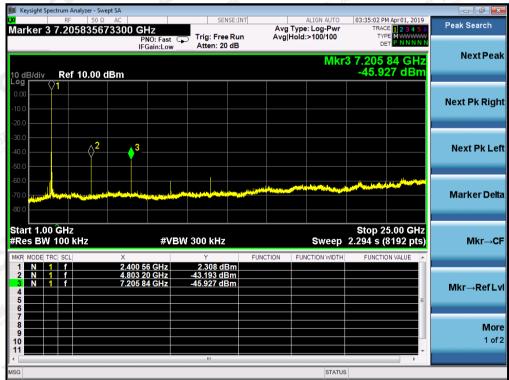
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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

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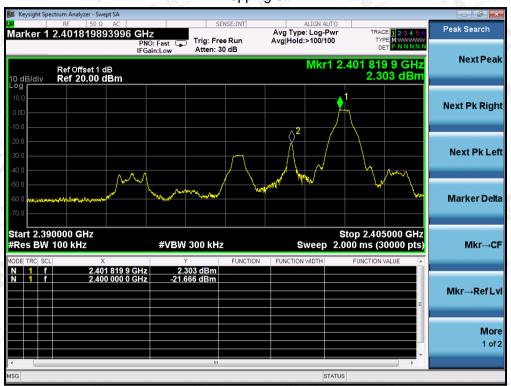
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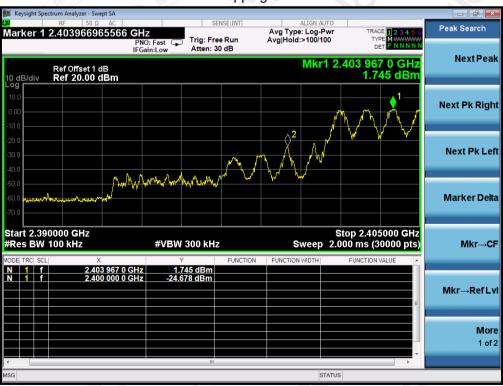


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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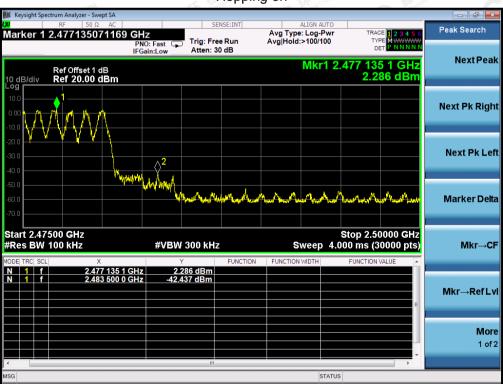
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GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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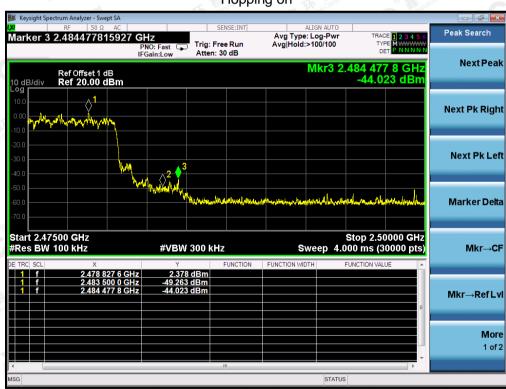
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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.1 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

| | Spectrum Parameter | Setting |
|--------------|-----------------------|---|
| | Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| K Compliance | Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Clops, | Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| CO. | Start ~Stop Frequency | 1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average |

| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

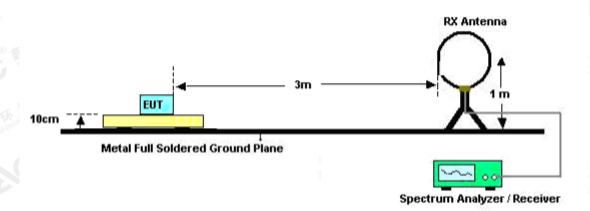
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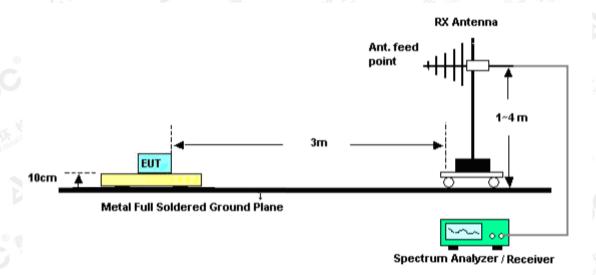
10.2. TEST SETUP

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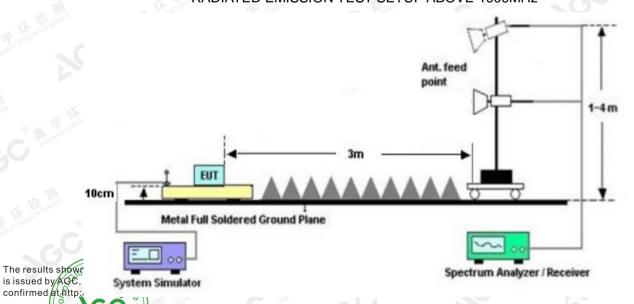
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|-----------------------------------|--|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | The state of the s |
| Above 960 | 500 | 3 |

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes

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