

廠商會檢定中心

## **TEST REPORT**

Report No.	AY0061438(0)	Date :	Nov 13, 2019
Acport 140.	1110001730(0)	Date.	1101 13, 2017

Application No. : LY031999(9)

Applicant : KONDOR LIMITED

CHRISTCHURCH BUSINESS PARK, RADAR WAY,

BH23 4FL. UK

Sample Description : Sample Description Model No.

Slam 70 Bluetooth Speaker KSSLA70

Date Received : 27 Sep 2019

Test Period : 28 Sep 2019 to 10 Nov 2019

Test Requested : FCC Certification for FCC Part 15, subpart C

Test Method : 47 CFR Part 15 (10-1-18 Edition),

ANSI C63.10 – 2013, ANSI C63.4 – 2014

Test Engineer : Mr. Leung Shu Kan, Ken

Conclusion : The submitted sample was found to comply with technical requirement of FCC

Part 15 Subpart C, section 15.247.

For and on behalf of

CMA Industrial Development Foundation Limited

Authorized Signature : Page 1 of 73

Mr. WONG Lap-pong Andrew

Manager



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#### **RESULT SUMMARY**

Test Item	FCC Requirement	Test Method	Result
Number of hopping frequency	§15.247(a)(1)(iii)	ANSI C63.10 §7.8.3	PASS
Band-edge	§15.247(d)	ANSI C63.10 §7.8.6	PASS
-		and 6.10	
Carrier frequency separation	§15.247(a)	ANSI C63.10 §7.8.2	PASS
Time of occupancy (dwell time)	§15.247(a)	ANSI C63.10 §7.8.4	PASS
Output power	§15.247(b)(1)	ANSI C63.10 §7.8.5	PASS
Occupied bandwidth	§15.247(a)	ANSI C63.10 §7.8.7	PASS
_		and 6.9.2	
Conducted spurious emission	§15.247(d)	ANSI C63.10 §7.8.8,	PASS
(Transmitter)		and §11.12.2.1	
Radiated spurious emission	§15.247(d)	ANSI C63.10 §6.4 –	PASS
(Transmitter)		6.6	
Radiated spurious emission	§15.109(a)	ANSI C63.4 §8.3	PASS
(Receiver)			
Conducted emission on AC mains	§15.207(a)	ANSI C63.4 §7.3	PASS
Frequency Hopping System	§15.247(a)(1), (g),	N/A	PASS
Requirement	(h)		

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Document name: FCC/ISED for FHSS - Document Ref No: RT-EL-EMC-048 - Issue Date: 13 Mar 2019 - Edition: 2

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#### 1 **Product Information**

#### **General Information**

Product Descriptin:	Model:
Slam 70 Bluetooth Speaker	KSSLA70

Primary function Receive audio signal through the Bluetooth

communication and audio input

DC 11.1V (Li-ion Rechargeable battery) Power supply

DC 5.0V (micro-usb input)

RF related function Bluetooth non-BLE communication

Electric Accessories sold

with

Interconnection cable : 68.5cm (head to head) USB to micro USB cable associated sold with 49cm (head to head) 3.5mm to 3.5mm audio cable

Operating condition : Not specified Model difference Not applicable

Remark N/A

#### **Technical Information**

Operating Frequency 2402 - 2480MHz

Digital Modulation **FHSS** 

Modulation GFSK,  $\pi/4$ DQPSK, 8DPSK

Number of Channel 79

Channel Bandwidth 1.0MHz Occupied Bandwidth 1.20MHz Signal Type : Data Number of Antenna : One Antenna Type : PCB Type Antenna Gain 2.0dBi

: DC11.1V (Li-ion rechargeable battery Rated Input Voltage

DC5.0V (micro-usb input)

: Bluetooth 5.0+EDR (non BLE) RF Technology Used

Simplex or Duplex : Half-duplex Adaptivity : FHSS adaptivity

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1.3 Associated Electric Accessories Information

N/A

#### **Associated Cables** 1.4

Cable Type	Length	Shielding	Ferrite attached
USB to micro USB cable	68.5cm	Yes	No
3.5mm to 3.5mm audio cable	49cm	No	No

#### 2.0 **Equipment Units Tested (EUT)**

**Product Description** Slam 70 Bluetooth Speaker

Model KSSLA70 Serial No. Not specified

Sample Type : Production Sample and engineering sample

Sample No. RY04726-002(0)

Rationale of selection Only one model number

#### 3.0 **Location of Test Facility**

CMA Industrial Development Foundation Ltd. Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung, Fo Tan, Shatin, **New Territories** Hong Kong.

FCC Accredited Lab (Designation Number: HK0004)

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#### 4.0 List of test equipment, supporting equipment and cables

### 4.1 Test equipment

-	14.		a : 137	Calibration	Calibration
Equipment	Manufacturer	Model No.	Serial No.	Due Date	Period
EMI Test Receiver	Rohde & Schwarz	ESCS30	100001	29 Mar 2020	1Year
Spectrum Analyzer	R&S	FSV40	100964	10 Sep 2020	1Year
Spectrum Analyzer	Rohde & Schwarz	FSP30	100628	26 Mar 2020	1Year
Broadband Antenna	Schaffner	CBL6112B	2692	27 Mar 2021	2Years
Loop Antenna	EMCO	6502	00056620	25 Jan 2020	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	21 Dec 2020	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	21 Dec 2020	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	01 Aug 2020	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	01 Aug 2020	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	16 May 2020	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	16 May 2020	1Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	21 Dec 2019	1Year
LISN	Rohde & Schwarz	ENV216	101323	22 Jan 2020	1Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	22 Oct 2020	1Year
	Rohde	& Schwarz TS8997	<b>Testing System</b>		
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101190	05 Dec 2019	1Year
OSP	Rohde & Schwarz	OSP	OSP-B157W	24 Apr 2020	1Year



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#### Supporting equipment

<b>Equipment Name</b>	Manufacturer	Model	Serial	Provided by
USB to TTL adapror*	Not provided	HW-597	Not labelled	Applicant
AC/DC adaptor	Apple	A1299	Not labelled	CMA

Remark: \*only used for configure engineering mode

#### <u>4.3</u> Cables

Nil

#### 4.4 Software

Software Name	Version	Function	Provided by
Bx32xx*	V1.5	Configure Engineering mode	Applicant

Remark: \*only used for configure engineering mode

#### 5.0 **Measurement Uncertainty**

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

#### Radiated emissions

Frequency	Uncertainty (U <sub>lab</sub> )
30MHz ~ 200MHz (Horizontal)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB
1GHz ~6GHz	4.52dB
6GHz ~18GHz	4.58dB
18GHz~40GHz	4.66dB

#### Line-conducted emissions

Frequency	Uncertainty (U <sub>lab</sub> )
150kHz~30MHz	2.80dB

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#### 6.0 Measurement

#### 6.1 General Test condition

Temperature : 25.8°C

Test Voltage : DC 11.1V and AC 120V

Humidity : 41.1% Atmosphere Pressure : 100.4kPa

#### 6.2 Number of hopping frequency

#### 6.2.1 Measurement

Requirement : FCC Part 15 § 15.247(a)(1)(iii) Measuring procedure : ANSI C63.10:2013, clause 7.8.3

 Span
 : 83.5MHz

 RBW
 : 300kHz

 VBW
 : 300kHz

Frequency range : 2.4000 - 2.4835GHz

Modulation tested : GFSK
Packet Type tested : DH5
Additional measuring : Nil

procedure

#### 6.2.2 Final Result

No. of hopping channels measured	Limit	Result	Worst case mode
79	≥ 15	PASS	GFSK and DH5

Remark: Detail test result and equipment setting refer to appendix A, A4

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6.3 Band-edge measurement

6.3.1 Measurement

hopping mode

Requirement : FCC Part 15 §15.247(d)

Measuring procedure : ANSI C63.10:2013, section 7.8.6 and 6.10

Hopping mode : Enabled and Disable

RBW : 100kHz VBW : 300kHz

Frequency range : 2310 – 2400MHz and 2483.5 – 2500MHz

Modulation tested : GFSK,  $\pi/4$ DQPSK, 8DPSK

Packet Type tested : DH5, 2DH5, 3DH5

Channel tested for non- : 2402MHz for lowed band edge and 2480MHz for higher band

edge

Additional measuring : For lower band edge (2400MHz)

procedure

1. Using the "Measurement 1" setting shown below the scan plot within the frequency span from 2400 – 2483.5MHz to measure the maximum peak value of fundamental

2. Using the "Measurement 2" setting shown below the scan plot within the frequency span from 2310 – 2400MHz to measure the bandedge reading

3. Compare that reading in procedure with the limit which equal to the measured maximum peak in procedure 1minus 20dB

For Upper bandedge (2483.5MHz)

- 1. Using the "Measurement 1" setting shown below the scan plot within the frequency span from 2400 2483.5MHz to measure the maximum peak value of fundamental
- 2. Using the "Measurement 2" setting shown below the scan plot within the frequency span from 2483.5 2500MHz to measure the bandedge reading
- 3. Compare that reading in procedure with the limit which equal to the measured maximum peak in procedure 1minus 20dB

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#### 6.3.2 Final Result

Bandedge frequency	Worst	Detector	Limit <sup>1</sup>	Result	Worst case
for lower bandedge	case		(dBc)		
(Worst Case)	$(dBc)^2$				
2399.725000	42.4	Peak	≥20.0	PASS	GFSK and DH5
Bandedge frequency	Worst	Detector	Limit <sup>1</sup>	Result	Worst case
for higher bandedge	case in				
(Worst Case)	$(dBc)^2$				
2498.675000	55.8	Peak	≥20.0	PASS	GFSK and DH5

Remark: 1) The limit is based on the transmitter demonstrated compliance with peak conducted power limit on section 6.4.2 of this report.

- 2) The Worst case dBc is the peak values measured in procedure 1 minus the worst case bandedge emission
- 3) Detail test result and equipment setting refer to appendix A, A32-39

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6.4 Carrier Frequency Separation

6.4.1 Measurement

Requirement : FCC Part 15 §15.247(a)

Measuring procedure : ANSI C63.10:2013, section 7.8.2

Hopping mode : Enabled RBW : 300kHz VBW : 300kHz

Frequency range : 2401-2404MHz, 2440-2443MHz, 2478-2481MHz

Modulation tested : GFSK<sup>2</sup>
Packet Type tested : DH5<sup>2</sup>
Additional measuring : Nil

procedure

Remark : 1) Since the measured value is more than 1.5 times of limit,

only middle channel is measured.

2) Since the modulation and packet type does not affect the

channel separation, GFSK and DH5 are selected as

represented modulation and data type

#### 6.4.2 Final Result

Carrier Frequency Separation	Limit <sup>1</sup>	Result	Worst case mode
1.009900MHz	0.913333MHz	PASS	GFSK and DH5

Remark: 1) Limit is 2/3 of the 20dB bandwidth in section 6.7 and conducted peak power is less than 0.125W in section 6.6 of this report.

2) Detail test result and equipment setting refer to appendix A, A29-31

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6.5 Time of occupancy (dwell time)

6.5.1 Measurement

Requirement : FCC Part 15 §15.247(a)

Measuring procedure : ANSI C63.10:2013, section 7.8.4

: 2441MHz

Hopping mode : Disable RBW : 500kHz VBW : 1MHz Modulation tested : GFSK<sup>3</sup>

Packet Type tested : DH1, DH3, DH5

Channel tested for non-

hopping mode

Additional measuring

procedure

1) Setup engineering sample to channel 2441MHz and DH1 packet size to perform the measurement according to ANSI

C63.10, section 7.8.4

2) Find the worst case packet size

3) Repeat procedure1 with the worst case packet size for

channel 2402MHz and 2480MHz

Remark : 1) Since the modulation does not affect the dwell time, GFSK

is selected as represented modulation.

#### 6.5.2 Final Result

Dwell time (worst case)	Limit	Result	Worst case mode
305.490ms	≤400ms	PASS	GFSK and DH5

Remark: 1) Detail test result and equipment setting refer to appendix A, A5-7



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6.6 Output Power

6.6.1 Measurement

Requirement FCC Part 15 §15.247(b) (1)

Measuring procedure : ANSI C63.10:2013, section 7.8.5

Hopping mode : Disable

Modulation tested : GFSK,  $\pi/4$ DQPSK, 8DPSK

Packet Type tested : DH5<sup>1</sup>

Channel tested for non-

2402MHz, 2441MHz, 2480MHz

hopping mode

Additional measuring

procedure Remark

: Nil

1) Since the packet size does not affect the output power, DH5

is selected as represented packet size.

#### 6.6.2 Final Result

Maximum peak conducted outputpwer (a)

Maximum peak conducted output power	Limit(s) <sup>1</sup>	Result	Modulation
0.6dBm	≤21.0dBm	PASS	GFSK
0.6dBm	≤21.0dBm	PASS	π/4DQPSK
0.6dBm	≤21.0dBm	PASS	8DPSK

Remark: 1) 0.125W (21.0dBm) limit is used for 2/3 20dB bandwidth requirement for channel

2) Detail test result and equipment setting refer to appendix A, A8-10

(b) Maximum peak e.i.r.p.

Maximum peak e.i.r.p. <sup>1</sup>	Limit(s) <sup>2</sup>	Result	Modulation
2.6dBm	≤27.0dBm	PASS	GFSK
2.6dBm	≤27.0dBm	PASS	π/4DQPSK
2.6dBm	<27.0dBm	PASS	8DPSK

Remark: 1) Maximum peak e.i.r.p. = Maximum peak conducted output power + antenna gain (dBi)

- 2) Maximum peak e.i.r.p. limit = Maximum peak conducted ouput power limit + 6dBi
- 3) Detail test result and equipment setting refer to appendix A, A8-10

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6.7 Occupied Bandwidth

6.7.1 Measurement

Requirement : FCC Part 15 §15.247(a)

Measuring procedure : ANSI C63.10:2013, section 7.8.7 and 6.9.2

Hopping mode : Disable

Modulation tested : GFSK,  $\pi/4$ DQPSK, 8DPSK

Packet Type tested : DH5<sup>1</sup>

Channel tested for non-

: 2402MHz, 2441MHz, 2480MHz

hopping mode

Additional measuring : Nil

procedure

Remark : 1) Since the packet size does not affect the bandwidth, DH5 is

selected as represented packet size.

#### 6.7.2 Final Result

20dB bandwidth	99% OBW	Modulation
930.0kHz	910.0kHz	GFSK
1370.0kHz	1200.0kHz	π/4DQPSK
1360.0kHz	1210.0kHz	8DPSK

Remark: 1) Detail test result and equipment setting refer to appendix A, A11-28.



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6.8 Conducted Spurious emission (Transmitter)

#### 6.8.1 Measurement

Requirement : FCC Part 15 §15.247(d)

Measuring procedure : ANSI C63.10:2013, section 5.5, 5.6, 7.8.8 and 11.12.2.1

Hopping mode : Disable

RBW : Refer to pre-measurement and final measurement setting
Detector : Refer to pre-measurement and final measurement setting

Modulation tested : GFSK<sup>1</sup>
Packet Type tested : DH5<sup>2</sup>

Channel tested for non-

hopping mode

Additional measuring

procedure

1) Setup engineering sample to channel 2402MHz to perform the measurement according to ANSI C63.10, section 7.8.8

with pre-measurement setting

- 2) If the pre-measurement is over the limit, the final measurement is performed for the specific frequency according to fina measurement setting or restricted band frequency
- 3) For non-restricted band frequency, peak detector and 100kHz RBW will be used for final measurement.
- 4) Repeat the procedure 1 to 3 for channel frequency of 2441MHz and 2480MHz

Remark : 1) Since the GFSK generates a higher SPD with power level, GFSK is selected as represented modulation for testing.

2) Since DH5 generates a higher dwell time, DH5 is selected as respresentative packet size for testing

#### 6.8.2 Final Result

Worst case	Worst case	Limit <sup>2</sup>	Margin	Result	Worst case mode
spurious emission	spurious				
frequency	emission				
	power <sup>1</sup>				
2399.975000MHz	-40.8dBm	-18.4dBm	-22.4dB	PASS	GFSK and DH5

Remark: 1) Spurious emission power = measured conducted power + antnenna gain(dBi) +ground reflection factor according to ANSI C63.10 section 11.12.2.2 for restricted band emission.

- 2) For restricted band emission, limit = restricted band field strength limit (dBuV/m) 9.54 + 104.75dB according to ANSI C63.10 section 11.12.2.2 For non-restricted band, limit = SPD/100kHz 20dB.
- 3) Detail test result and equipment setting refer to appendix A, A40-45

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6.9 Radiated Spurious emission (Transmitter)

6.9.1 Measurement

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 0.4m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 300MHz, biconical antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground. Same procedure for frequency 300MHz to 1000MHz but Log-periodic antenna is used for final measurements.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three X, Y, Z orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

The Frequencies from fundamental up to the tenth harmonics were investigated, and emissions more 20dB below limit were not reported.

Bluetooth hopping + charging mode with GFSK modulation and DH5 packet type are selected as worst case mode for spurious radiated emission test from cabinet.

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6.9.2 Final Result

a) Test mode: Bluetooth + charging mode

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m <sup>1</sup> (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)
V	V 2400.000		-4.7	63.1	74.0	-10.9	PK
V	2400.000	36.3	-4.7	31.6	54.0	-22.4	AV
V	2483.500	56.2	-4.7	51.5	54.0	-2.5	PK
V	4003.579	40.6	-0.9	39.7	54.0	-14.3	PK
V	4068.324	40.5	-0.9	39.6	54.0	-14.4	PK
V	4133.187	39.3	-0.9	38.4	54.0	-15.6	PK
Н	4804.119	43.8	2.3	46.1	54.0	-7.9	PK
V	4882.045	45.3	2.3	47.6	54.0	-6.4	PK
V	4960.144	45.3	2.8	48.1	54.0	-5.9	PK
V	6405.395	43.2	5.0	48.2	54.0	-5.8	PK
V	6509.395	41.2	7.2	48.4	54.0	-5.6	PK
V	6613.429	40.8	7.2	48.0	54.0	-6.0	PK
Н	7206.099	34.6	9.6	44.2	54.0	-9.8	PK
Н	7323.024	35.4	9.6	45.0	54.0	-9.0	PK
V	7439.857	35.4	9.6	45.0	54.0	-9.0	PK

Remark: 1) Field Strength = Reading + transducer factor.

- 2) Other emission with more than 20dB margin are not reported in this report.
- 3) The peak value are compared with average limit except 2400.000MHz



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#### **6.10** Radiated Spurious emission (other mode)

6.10.1 Measurement

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 0.4m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 300MHz, biconical antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground. Same procedure for frequency 300MHz to 1000MHz but Log-periodic antenna is used for final measurements.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three X, Y, Z orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

The Frequencies from fundamental up to the tenth harmonics were investigated, and emissions more 20dB below limit were not reported.

Receiving mode and Aux-in are selected for spurious radiated emission test from cabinet.

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### **TEST REPORT**

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6.10.2 Final Result

Test mode: Receiving mode

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m <sup>1</sup> (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)	
Н	71.653	11.3	9.8	21.1	40.0	-18.9	QP	
V	99.459	99.459 15.6		25.8 43.5		-17.7	QP	
Н	127.985	14.8	12.6	27.4	43.5	-16.1	QP	
V	159.541	12.5	13.5	26.0	43.5	-17.5	QP	
Н	199.203	11.4	15.3	26.7	43.5	-16.8	QP	
V	243.336	15.4	14.5	29.9	46.0	-16.1	QP	
Н	285.840	17.5	14.5	32.0	46.0	-14.0	QP	
V	327.246	16.7	16.9	33.6	46.0	-12.4	QP	

Remark: 1) Field Strength = Reading + transducer factor.

Test mode: Aux-in+charging

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m <sup>1</sup> (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)	
V	49.143	19.1	11.3	30.4	40.0	-9.6	QP	
Н	87.144 23.		9.8	33.4 40.0		-6.6	QP	
V	87.943 21.9		9.8	31.7	40.0	-8.3	QP	
V	287.649	12.7	14.5	27.2	46.0	-18.8	QP	
Н	376.661	14.2	16.9	31.1	46.0	-14.9	QP	
Н	629.888	9.9	23.8	33.7	46.0	-12.3	QP	
V	766.601	9.8	25.1	34.9	46.0	-11.1	QP	

Remark: 1) Field Strength = Reading + transducer factor.

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<sup>2)</sup> Other emission with more than 20dB margin are not reported in this report.

<sup>2)</sup> Other emission with more than 20dB margin are not reported in this report



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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

6.11 Conducted Emission

#### 6.11.1 Measurement

Requirement : FCC Part 15 §15.207(a)

Measuring procedure : ANSI C63.4:2014, section 7.3

Test mode : Bluetooth+charging, Aux-in+Charging

RBW : 9kHz
VBW : 30kHz
Modulation tested : GFSK
Packet Type tested : DH5
Additional measuring : Nil

procedure

Remark : Nil

#### 6.11.2 Final Result

ſ	Worst case	Worst case	Limit	Margin	Detector	Lines	Worst case	Result
	conducted	conducted					mode	
	emission	emission						
	frequency							
ſ	0.1635MHz	57.68dBµV	65.27dBµV	-7.59dB	QP	L	Aux	PASS
							+charging	

Remark: 1) Detail test result and equipment setting refer to appendix A, A46-49



Report No. : AY0061438(0) Date : Nov 13, 2019

#### 7.0 Frequency Hopping System Requirement

Test Requirement: Section 15.247(a)(1), (g), (h)

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom order 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.

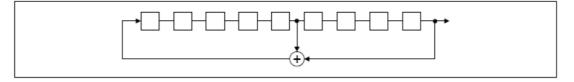
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmissions bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

#### Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5<sup>th</sup> and 9<sup>th</sup> stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stage: 9
- Length of pseudorandom sequence: 2<sup>9</sup>-1=511 bits
- Longest sequence of zero: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

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### **TEST REPORT**

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	20	62	46					/ 64		8 73	3 3			6.75	,	<u>'</u>
							- 1		;		1			Т	1	
							- 1		1		1		i	Т	ı	
							- 1	-1	1		1			1	1	

Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

#### **Compliance for section 15.247(g)**

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short brust transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

#### **Compliance for section 15.247(h)**

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in effort to avoid the simultaneous occupancy of the individual hopping frequencies by multiple transmitter.

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### **TEST REPORT**

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#### 8.0 External photo, Internal Photo and Test configuration Photo

The External Photo, Internal Photo and Test Configuration Photo associated with this report for the tested product are saved in separated pdf file listed in the following

File content	File name
External Photo	2AFF-KSSLA70 External photo.pdf
Internal Photo	2AFF-KSSLA70 Internal photo.pdf
Test Configuration Photo	2AFF-KSSLA70 Test setpu photo.pdf

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Report No. : AY0061438(0) Date : Nov 13, 2019

## **APPENDIX A Test Result**



Report No. : AY0061438(0) Date : Nov 13, 2019

## FCC Part 47 §15.247 2400-2483.5 MHz 2016

#### **DUT Information**

Frequencies		
BT CH 0 (2402 MHz)	BT CH 1 (2403 MHz)	BT CH 2 (2404 MHz)
BT CH 3 (2405 MHz)	BT CH 4 (2406 MHz)	BT CH 5 (2407 MHz)
BT CH 6 (2408 MHz)	BT CH 7 (2409 MHz)	BT CH 8 (2410 MHz)
BT CH 9 (2411 MHz)	BT CH 10 (2412 MHz)	BT CH 11 (2413 MHz)
BT CH 12 (2414 MHz)	BT CH 13 (2415 MHz)	BT CH 14 (2416 MHz)
BT CH 15 (2417 MHz)	BT CH 16 (2418 MHz)	BT CH 17 (2419 MHz)
BT CH 18 (2420 MHz)	BT CH 19 (2421 MHz)	BT CH 20 (2422 MHz)
BT CH 21 (2423 MHz)	BT CH 22 (2424 MHz)	BT CH 23 (2425 MHz)
BT CH 24 (2426 MHz)	BT CH 25 (2427 MHz)	BT CH 26 (2428 MHz)
BT CH 27 (2429 MHz)	BT CH 28 (2430 MHz)	BT CH 29 (2431 MHz)
BT CH 30 (2432 MHz)	BT CH 31 (2433 MHz)	BT CH 32 (2434 MHz)
BT CH 33 (2435 MHz)	BT CH 34 (2436 MHz)	BT CH 35 (2437 MHz)
BT CH 36 (2438 MHz)	BT CH 37 (2439 MHz)	BT CH 38 (2440 MHz)
BT CH 39 (2441 MHz)	BT CH 40 (2442 MHz)	BT CH 41 (2443 MHz)
BT CH 42 (2444 MHz)	BT CH 43 (2445 MHz)	BT CH 44 (2446 MHz)
BT CH 45 (2447 MHz)	BT CH 46 (2448 MHz)	BT CH 47 (2449 MHz)
BT CH 48 (2450 MHz)	BT CH 49 (2451 MHz)	BT CH 50 (2452 MHz)
BT CH 51 (2453 MHz)	BT CH 52 (2454 MHz)	BT CH 53 (2455 MHz)
BT CH 54 (2456 MHz)	BT CH 55 (2457 MHz)	BT CH 56 (2458 MHz)
BT CH 57 (2459 MHz)	BT CH 58 (2460 MHz)	BT CH 59 (2461 MHz)
BT CH 60 (2462 MHz)	BT CH 61 (2463 MHz)	BT CH 62 (2464 MHz)
BT CH 63 (2465 MHz)	BT CH 64 (2466 MHz)	BT CH 65 (2467 MHz)
BT CH 66 (2468 MHz)	BT CH 67 (2469 MHz)	BT CH 68 (2470 MHz)
BT CH 69 (2471 MHz)	BT CH 70 (2472 MHz)	BT CH 71 (2473 MHz)
BT CH 72 (2474 MHz)	BT CH 73 (2475 MHz)	BT CH 74 (2476 MHz)
BT CH 75 (2477 MHz)	BT CH 76 (2478 MHz)	BT CH 77 (2479 MHz)
BT CH 78 (2480 MHz)		



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Hardware Setup: WMS Measurements\TS8997

Spectrum Analyzer: SA FSV 40 (SA FSV 40) @ VISA (ADR

TCPIP::192.168.48.148::inst0::instr), SN 1321.3008K39/101190,

FW 2.30 SP4

Vector Generator: VG SMBV100A (VG SMBV100A) @ VISA (ADR

TCPIP::192.168.48.149::inst0::instr), SN 262024, FW 3.1.19.8-

3.20.281.28.7

Generator: SMB100A (SMB100A) @ VISA (ADR

TCPIP::192.168.48.152::inst0::instr), SN 103230, FW 3.20.390.24

/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP: OSP-B157W (OSP-B157W) @ VISA (ADR

TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.03 / 101057,

FW 1.23.0.2



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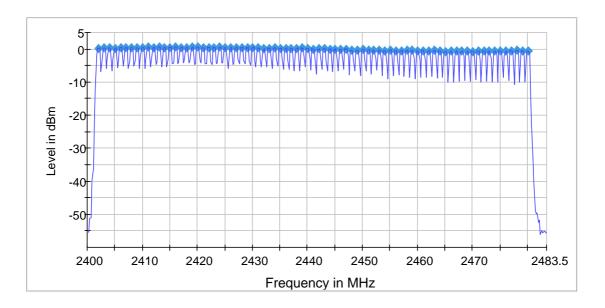
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### **Hopping Frequencies (Hopping; GFSK; DH5)**

### **Channels**

Channels	Limit Min	Limit Max	Result
79	15		PASS



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	55 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.43 dB	0.50 dB

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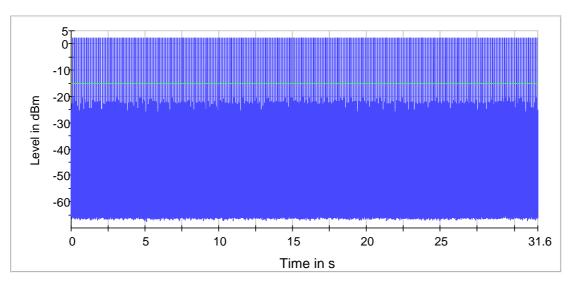
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Time of Channel Occupancy (2441 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	309	121.830	-15.0



Trace — Threshold

#### Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

#### **OSP**

Setting	Instrument Value	Target Value
Measurement Time	31.600 s	31.600 s
Tracepoints	31600000	31600000
Time resolution	1.000 µs	1.000 µs
Detector	RMS	RMS

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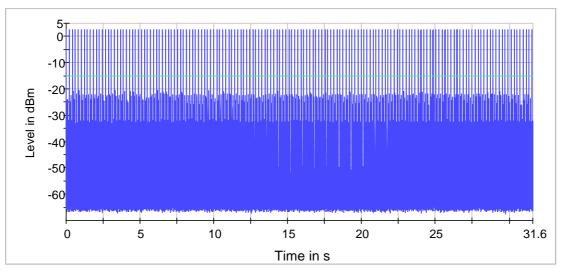
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Time of Channel Occupancy(2) (2441 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	155	259.870	-15.0



Trace Threshold

#### Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

### **OSP**

Setting	Instrument Value	Target Value
Measurement Time	31.600 s	31.600 s
Tracepoints	31600000	31600000
Time resolution	1.000 µs	1.000 µs
Detector	RMS	RMS

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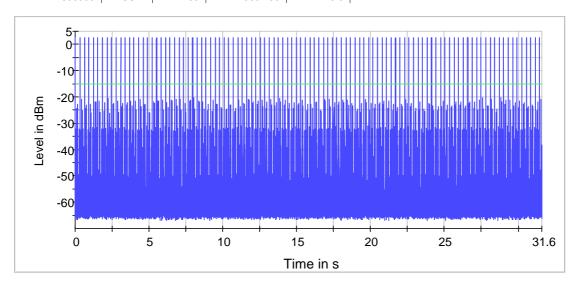
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### Time of Channel Occupancy(3) (2441 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	103	305.490	-15.0



Trace Threshold

#### Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

#### **OSP**

Setting	Instrument Value	Target Value			
Measurement Time	31.600 s	31.600 s			
Tracepoints	31600000	31600000			
Time resolution	1.000 µs	1.000 µs			
Detector	RMS	RMS			

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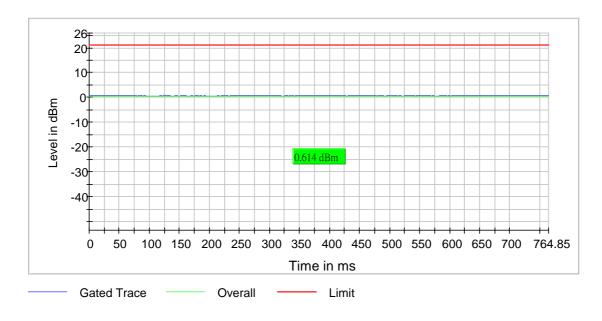
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### RF output power (2402 MHz; GFSK; DH5)

#### Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
(MHz)	(dBm)	(dBm)	(dBm)	(%)	
2402.000000	0.6	21.0	2.6	76.770	PASS





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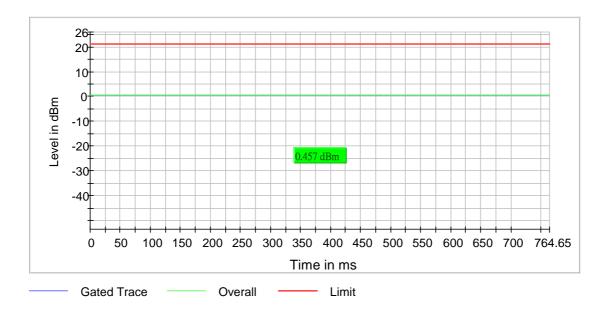
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### RF output power (2441 MHz; GFSK; DH5)

#### Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
(MHz)	(dBm)	(dBm)	(dBm)	(%)	
2441.000000	0.5	21.0	2.5	76.750	PASS





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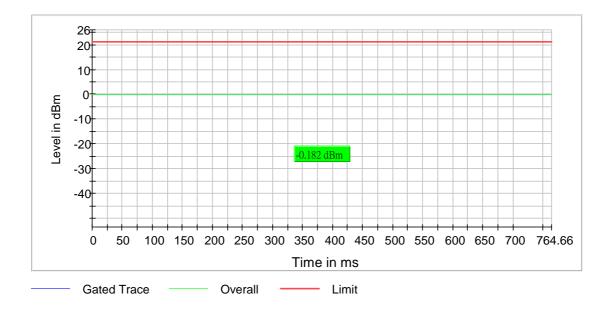
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### RF output power (2480 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2480.000000	-0.2	21.0	1.8	76.751	PASS





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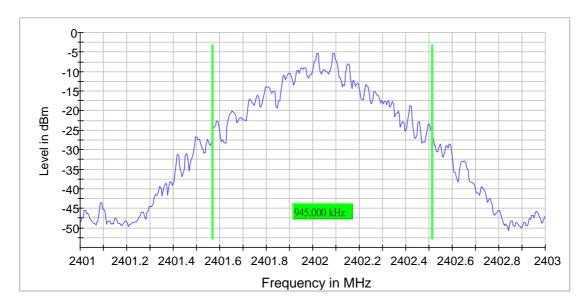
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2402 MHz; GFSK; DH5)

#### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.945000			2401.567500	2402.512500



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.27 dB	0.50 dB



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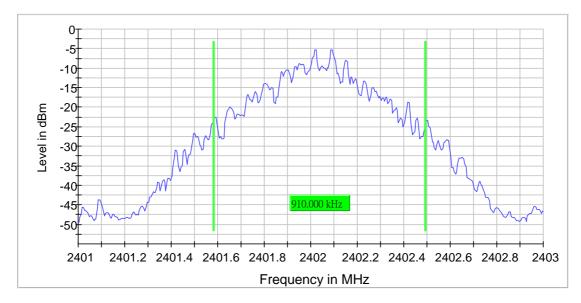
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2402 MHz; GFSK; DH5)

#### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.910000			2401.582500	2402.492500



#### Measurement

Setting	Instrument Value	Target Value	
Start Frequency	2.40100 GHz	2.40100 GHz	
Stop Frequency	2.40300 GHz	2.40300 GHz	
Span	2.000 MHz	2.000 MHz	
RBW	10.000 kHz	>= 10.000 kHz	
VBW	30.000 kHz	>= 30.000 kHz	
SweepPoints	400	~ 400	
Sweeptime	189.648 µs	AUTO	
Reference Level	0.000 dBm	0.000 dBm	
Attenuation	20.000 dB	AUTO	
Detector	MaxPeak	MaxPeak	
SweepCount	500	500	
Filter	3 dB	3 dB	
Trace Mode	Max Hold	Max Hold	
Sweeptype	FFT	AUTO	
Preamp	off	off	
Stablemode	Trace	Trace	
Stablevalue	0.30 dB	0.30 dB	
Run	5 / max. 150	max. 150	
Stable	3/3	3	
Max Stable Difference	0.20 dB	0.30 dB	

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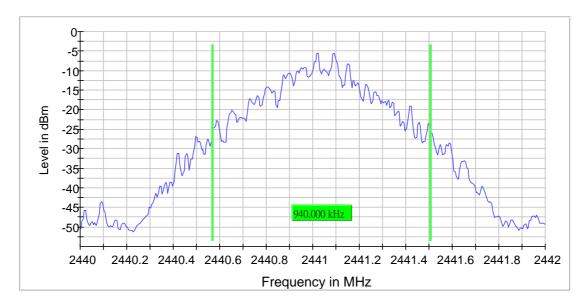
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2441 MHz; GFSK; DH5)

### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.940000			2440.567500	2441.507500



#### Measurement

Setting Instrument Target Value					
Instrument Value	Target Value				
2.44000 GHz	2.44000 GHz				
2.44200 GHz	2.44200 GHz				
2.000 MHz	2.000 MHz				
10.000 kHz	>= 10.000 kHz				
30.000 kHz	>= 30.000 kHz				
400	~ 400				
189.648 µs	AUTO				
-10.000 dBm	-10.000 dBm				
10.000 dB	AUTO				
MaxPeak	MaxPeak				
200	200				
3 dB	3 dB				
Max Hold	Max Hold				
FFT	AUTO				
off	off				
Trace	Trace				
0.50 dB	0.50 dB				
7 / max. 150	max. 150				
5/5	5				
0.12 dB	0.50 dB				
	Value  2.44000 GHz  2.44200 GHz  2.000 MHz  10.000 kHz  30.000 kHz  400  189.648 µs  -10.000 dBm  10.000 dB  MaxPeak  200  3 dB  Max Hold  FFT  off  Trace  0.50 dB  7 / max. 150  5 / 5				

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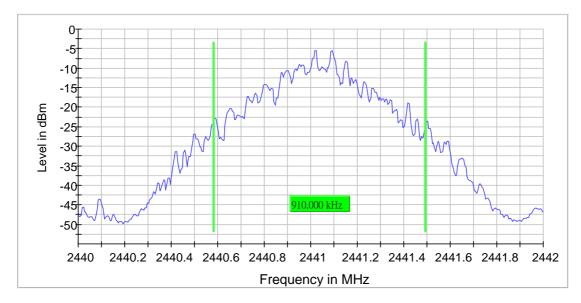
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2441 MHz; GFSK; DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.910000			2440.582500	2441.492500



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.17 dB	0.30 dB

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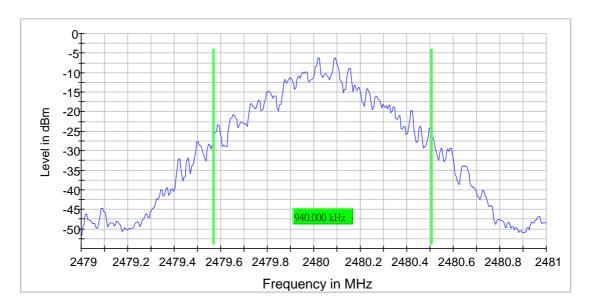
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2480 MHz; GFSK; DH5)

### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.940000			2479.567500	2480.507500



#### Measurement

Setting Instrument Target Value					
Instrument Value	Target Value				
2.47900 GHz	2.47900 GHz				
2.48100 GHz	2.48100 GHz				
2.000 MHz	2.000 MHz				
10.000 kHz	>= 10.000 kHz				
30.000 kHz	>= 30.000 kHz				
400	~ 400				
189.648 µs	AUTO				
-10.000 dBm	-10.000 dBm				
10.000 dB	AUTO				
MaxPeak	MaxPeak				
200	200				
3 dB	3 dB				
Max Hold	Max Hold				
FFT	AUTO				
off	off				
Trace	Trace				
0.50 dB	0.50 dB				
8 / max. 150	max. 150				
5/5	5				
0.17 dB	0.50 dB				
	Value  2.47900 GHz  2.48100 GHz  2.000 MHz  10.000 kHz  30.000 kHz  400  189.648 µs  -10.000 dBm  10.000 dB  MaxPeak  200  3 dB  Max Hold  FFT  off  Trace  0.50 dB  8 / max. 150  5 / 5				

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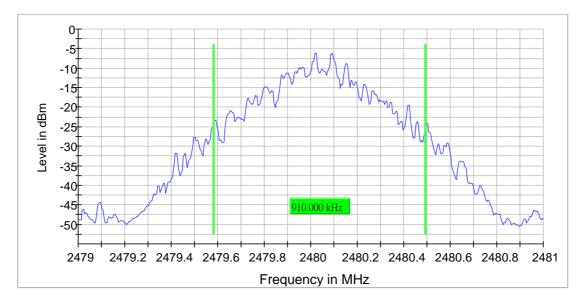
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2480 MHz; GFSK; DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.910000			2479.582500	2480.492500



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.09 dB	0.30 dB

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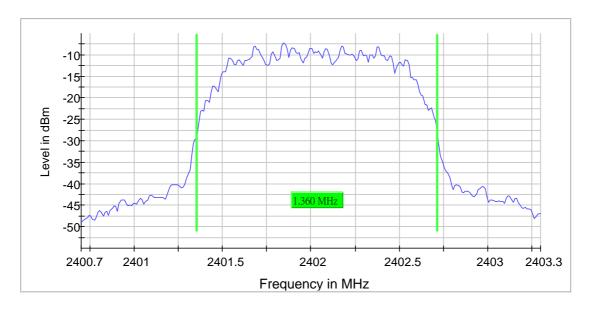
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2402 MHz; π/4DQPSK; 2DH5)

### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.360000			2401.355000	2402.715000



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40070 GHz	2.40070 GHz
Stop Frequency	2.40330 GHz	2.40330 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.15 dB	0.50 dB

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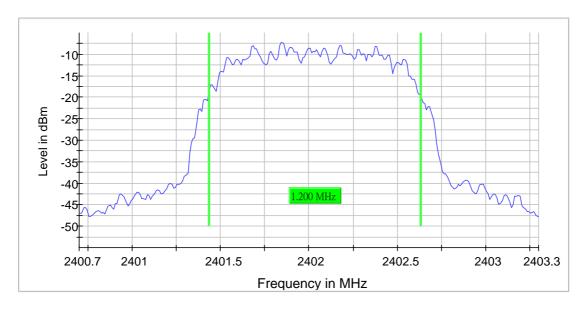
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2402 MHz; π/4DQPSK; 2DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.200000			2401.435000	2402.635000



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40070 GHz	2.40070 GHz
Stop Frequency	2.40330 GHz	2.40330 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.24 dB	0.30 dB

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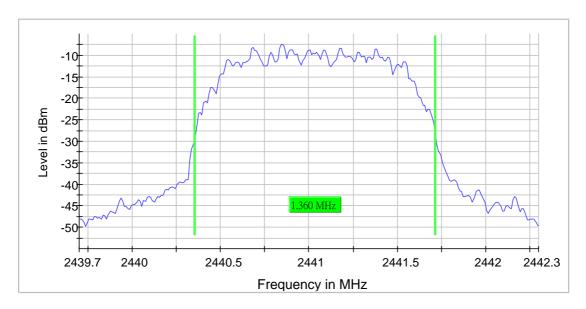
## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2441 MHz; π/4DQPSK; 2DH5)

### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.360000	-		2440.355000	2441.715000



#### Measurement

mododi omoni						
Setting	Instrument Value	Target Value				
Start Frequency	2.43970 GHz	2.43970 GHz				
Stop Frequency	2.44230 GHz	2.44230 GHz				
Span	2.600 MHz	2.600 MHz				
RBW	20.000 kHz	>= 13.000 kHz				
VBW	100.000 kHz	>= 60.000 kHz				
SweepPoints	260	~ 260				
Sweeptime	94.727 µs	AUTO				
Reference Level	0.000 dBm	0.000 dBm				
Attenuation	20.000 dB	AUTO				
Detector	MaxPeak	MaxPeak				
SweepCount	200	200				
Filter	3 dB	3 dB				
Trace Mode	Max Hold	Max Hold				
Sweeptype	FFT	AUTO				
Preamp	off	off				
Stablemode	Trace	Trace				
Stablevalue	0.50 dB	0.50 dB				
Run	7 / max. 150	max. 150				
Stable	5/5	5				
Max Stable Difference	0.22 dB	0.50 dB				

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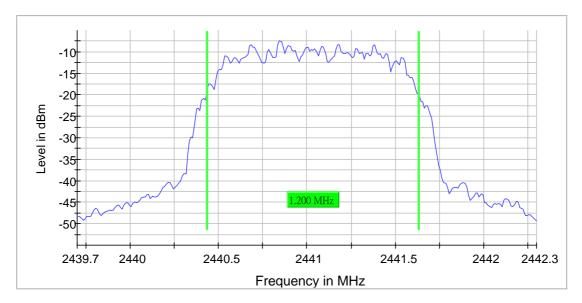
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2441 MHz; π/4DQPSK; 2DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.200000			2440.435000	2441.635000



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43970 GHz	2.43970 GHz
Stop Frequency	2.44230 GHz	2.44230 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.08 dB	0.30 dB

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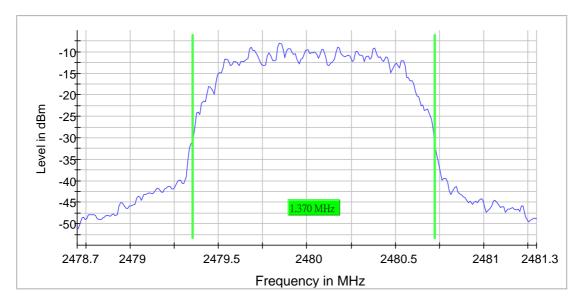
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB (2480 MHz; π/4DQPSK; 2DH5)

### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.370000			2479.355000	2480.725000



### Measurement

Start Frequency         2.47870 GHz         2.47870 GHz           Stop Frequency         2.48130 GHz         2.48130 GHz           Span         2.600 MHz         2.600 MHz           RBW         20.000 kHz         >= 13.000 kHz           VBW         100.000 kHz         >= 60.000 kHz           SweepPoints         260         ~ 260           Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         0.50 dB         0.50 dB	Setting	Instrument Value	Target Value
Span         2.600 MHz         2.600 MHz           RBW         20.000 kHz         >= 13.000 kHz           VBW         100.000 kHz         >= 60.000 kHz           SweepPoints         260         ~ 260           Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Start Frequency	2.47870 GHz	2.47870 GHz
RBW         20.000 kHz         >= 13.000 kHz           VBW         100.000 kHz         >= 60.000 kHz           SweepPoints         260         ~ 260           Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Stop Frequency	2.48130 GHz	2.48130 GHz
VBW         100.000 kHz         >= 60.000 kHz           SweepPoints         260         ~ 260           Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Span	2.600 MHz	2.600 MHz
SweepPoints         260         ~ 260           Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	RBW	20.000 kHz	>= 13.000 kHz
Sweeptime         94.727 μs         AUTO           Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	VBW	100.000 kHz	>= 60.000 kHz
Reference Level         0.000 dBm         0.000 dBm           Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	SweepPoints	260	~ 260
Attenuation         20.000 dB         AUTO           Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Sweeptime	94.727 µs	AUTO
Detector         MaxPeak         MaxPeak           SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Reference Level	0.000 dBm	0.000 dBm
SweepCount         200         200           Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Attenuation	20.000 dB	AUTO
Filter         3 dB         3 dB           Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Detector	MaxPeak	MaxPeak
Trace Mode         Max Hold         Max Hold           Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	SweepCount	200	200
Sweeptype         FFT         AUTO           Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Filter	3 dB	3 dB
Preamp         off         off           Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Trace Mode	Max Hold	Max Hold
Stablemode         Trace         Trace           Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Sweeptype	FFT	AUTO
Stablevalue         0.50 dB         0.50 dB           Run         7 / max. 150         max. 150           Stable         5 / 5         5	Preamp	off	off
Run         7 / max. 150         max. 150           Stable         5 / 5         5	Stablemode	Trace	Trace
Stable 5/5 5	Stablevalue	0.50 dB	0.50 dB
2.0	Run	7 / max. 150	max. 150
May Stable Difference 0.18 dB 0.50 dB	Stable	5/5	5
Max Stable Difference 0.10 ub 0.30 ub	Max Stable Difference	0.18 dB	0.50 dB

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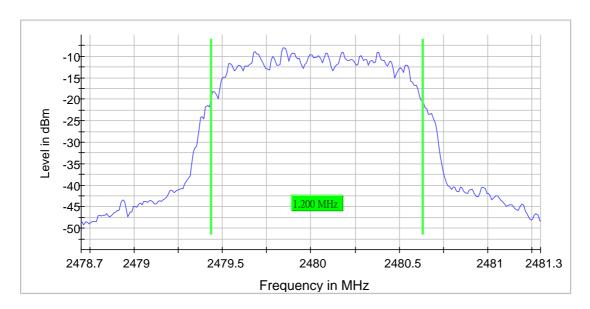
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99% (2480 MHz; π/4DQPSK; 2DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.200000			2479.435000	2480.635000



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47870 GHz	2.47870 GHz
Stop Frequency	2.48130 GHz	2.48130 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.18 dB	0.30 dB

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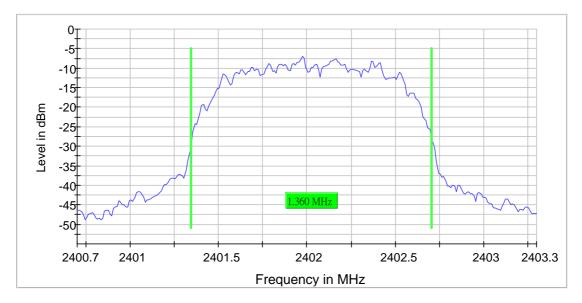
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB(2) (2402 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.360000			2401.345000	2402.705000



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40070 GHz	2.40070 GHz
Stop Frequency	2.40330 GHz	2.40330 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.27 dB	0.50 dB

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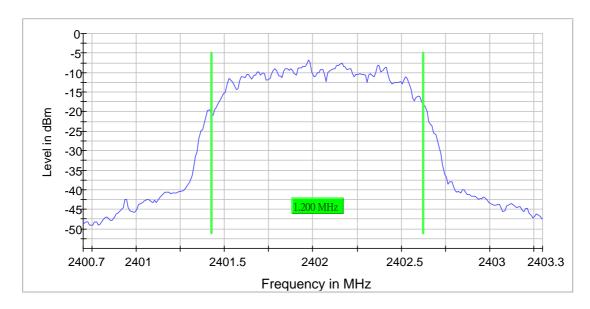
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99%(2) (2402 MHz; 8DPSK; 3DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.200000			2401.425000	2402.625000



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40070 GHz	2.40070 GHz
Stop Frequency	2.40330 GHz	2.40330 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.16 dB	0.30 dB



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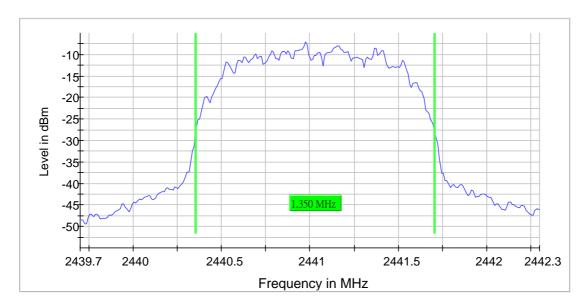
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB(2) (2441 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.350000			2440.355000	2441.705000



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43970 GHz	2.43970 GHz
Stop Frequency	2.44230 GHz	2.44230 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.10 dB	0.50 dB

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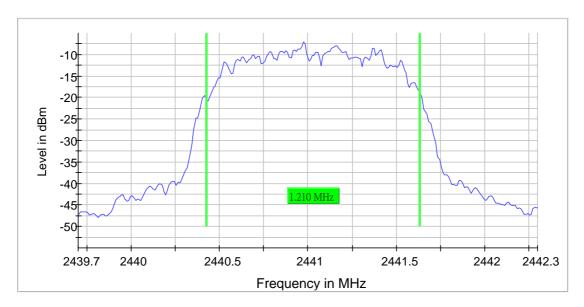
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99%(2) (2441 MHz; 8DPSK; 3DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.210000			2440.425000	2441.635000



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43970 GHz	2.43970 GHz
Stop Frequency	2.44230 GHz	2.44230 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.21 dB	0.30 dB

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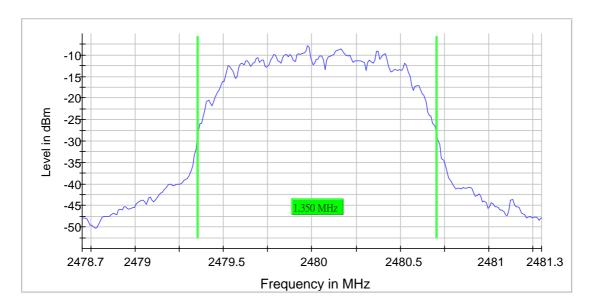
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Emission Bandwidth 20 dB(2) (2480 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.350000			2479.355000	2480.705000



#### Measurement

Instrument Value	Target Value
2.47870 GHz	2.47870 GHz
2.48130 GHz	2.48130 GHz
2.600 MHz	2.600 MHz
20.000 kHz	>= 13.000 kHz
100.000 kHz	>= 60.000 kHz
260	~ 260
94.727 µs	AUTO
0.000 dBm	0.000 dBm
20.000 dB	AUTO
MaxPeak	MaxPeak
200	200
3 dB	3 dB
Max Hold	Max Hold
FFT	AUTO
off	off
Trace	Trace
0.50 dB	0.50 dB
7 / max. 150	max. 150
5/5	5
0.17 dB	0.50 dB
	Value  2.47870 GHz  2.48130 GHz  2.600 MHz  20.000 kHz  100.000 kHz  260  94.727 µs  0.000 dBm  20.000 dB  MaxPeak  200  3 dB  Max Hold  FFT  off  Trace  0.50 dB  7 / max. 150  5 / 5

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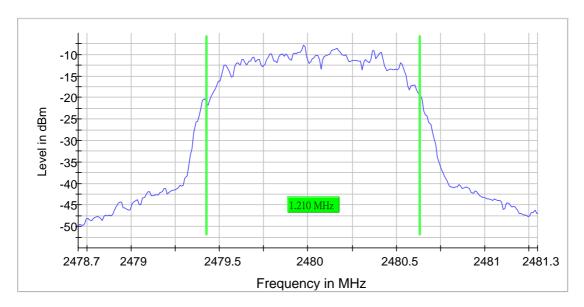
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Occupied Channel Bandwidth 99%(2) (2480 MHz; 8DPSK; 3DH5)

### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.210000			2479.425000	2480.635000



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47870 GHz	2.47870 GHz
Stop Frequency	2.48130 GHz	2.48130 GHz
Span	2.600 MHz	2.600 MHz
RBW	20.000 kHz	>= 13.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	260	~ 260
Sweeptime	94.727 μs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.19 dB	0.30 dB

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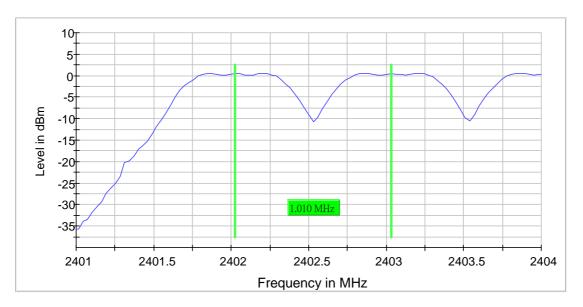
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Carrier Frequency Separation (2402 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009901	0.913333		2402.024752	2403.034653



#### Measurement

Moasarcinone		
Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.24 dB	0.50 dB

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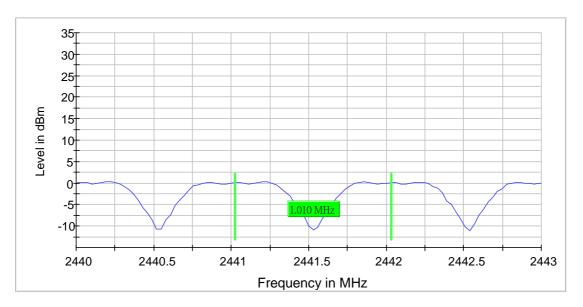
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Carrier Frequency Separation (2441 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009901	0.913333		2441.024752	2442.034653



#### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

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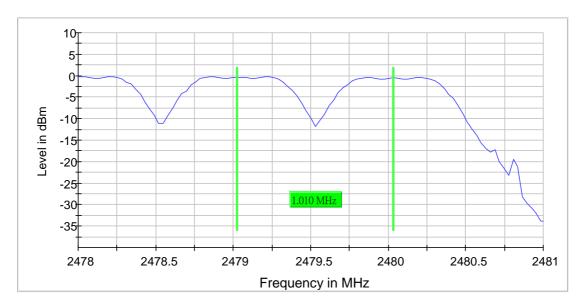
# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Carrier Frequency Separation (2479 MHz; GFSK; DH5)

#### Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2479.000000	1.009901	0.913333		2479.024752	2480.034653



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	21 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.14 dB	0.50 dB

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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### **Band Edge low (Hoppping; GFSK; DH5)**

#### Result

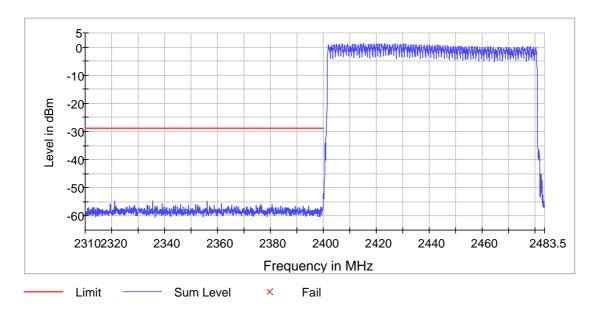
DUT Frequency (MHz)	Result
hopping	PASS

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2415.175000	1.2

#### **Measurements**

Frequency (MHz)	Level	Margin	Limit	Result
(IVITIZ)	(dBm)	(dB)	(dBm)	
2321.125000	-54.6	25.8	-28.8	PASS
2355.925000	-54.6	25.9	-28.8	PASS
2355.975000	-54.7	25.9	-28.8	PASS
2335.425000	-54.7	25.9	-28.8	PASS
2321.075000	-55.0	26.2	-28.8	PASS
2399.975000	-55.4	26.6	-28.8	PASS
2319.525000	-55.6	26.8	-28.8	PASS
2339.125000	-55.6	26.8	-28.8	PASS
2335.375000	-55.6	26.8	-28.8	PASS
2335.475000	-55.7	26.9	-28.8	PASS
2361.475000	-55.7	26.9	-28.8	PASS
2399.925000	-55.9	27.1	-28.8	PASS
2321.175000	-56.0	27.2	-28.8	PASS
2319.425000	-56.0	27.2	-28.8	PASS
2351.875000	-56.0	27.2	-28.8	PASS



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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### **Measurement 1**

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

### **Measurement 2**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	140 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB



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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### **Band Edge high (Hopping; GFSK; DH5)**

### Result

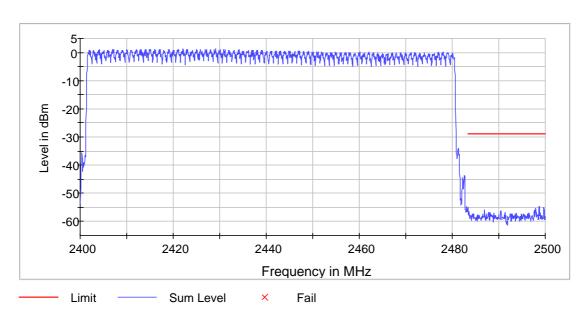
DUT Frequency (MHz)	Result
hopping	PASS

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2422.125000	1.2

### **Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
· ,		. ,	` '	
2498.675000	-54.7	25.9	-28.8	PASS
2498.725000	-54.8	26.1	-28.8	PASS
2499.725000	-55.1	26.3	-28.8	PASS
2497.925000	-55.3	26.5	-28.8	PASS
2499.675000	-55.3	26.6	-28.8	PASS
2497.975000	-55.5	26.7	-28.8	PASS
2486.925000	-55.8	27.0	-28.8	PASS
2499.775000	-55.8	27.1	-28.8	PASS
2497.675000	-56.0	27.2	-28.8	PASS
2486.975000	-56.1	27.3	-28.8	PASS
2497.875000	-56.1	27.4	-28.8	PASS
2490.475000	-56.2	27.5	-28.8	PASS
2486.875000	-56.3	27.5	-28.8	PASS
2483.625000	-56.4	27.7	-28.8	PASS
2497.625000	-56.4	27.7	-28.8	PASS



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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### **Measurement 1**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	138 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.34 dB	0.50 dB

### **Measurement 2**

Setting	Instrument Value	Target Value
Start Frequency	2.48350 GHz	2.48350 GHz
Stop Frequency	2.50000 GHz	2.50000 GHz
Span	16.500 MHz	16.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	330	~ 330
Sweeptime	37.969 μs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB



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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Band Edge low (2402 MHz; GFSK; DH5)

#### Result

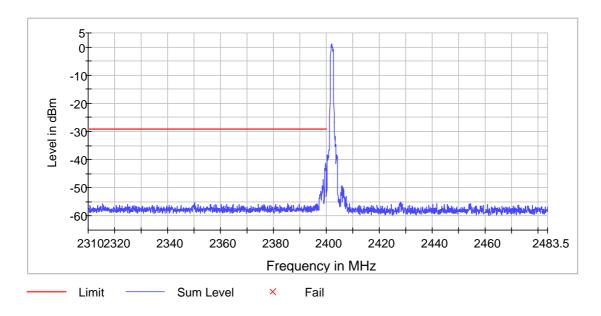
DUT Frequency (MHz)	Result
2402.000000	PASS

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2402.125000	1.0

#### **Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.725000	-41.4	12.4	-29.0	PASS
2399.775000	-41.6	12.5	-29.0	PASS
2399.625000	-42.2	13.1	-29.0	PASS
2399.575000	-42.4	13.4	-29.0	PASS
2399.675000	-42.5	13.5	-29.0	PASS
2399.825000	-43.1	14.1	-29.0	PASS
2399.425000	-43.1	14.1	-29.0	PASS
2399.475000	-43.3	14.3	-29.0	PASS
2399.375000	-43.6	14.5	-29.0	PASS
2399.525000	-44.0	15.0	-29.0	PASS
2399.875000	-45.6	16.6	-29.0	PASS
2399.325000	-46.4	17.4	-29.0	PASS
2398.725000	-47.1	18.1	-29.0	PASS
2398.775000	-47.1	18.1	-29.0	PASS
2398.675000	-47.5	18.5	-29.0	PASS



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廠商會檢定中心

## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

#### **Measurement 1**

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	16 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.08 dB	0.50 dB

### **Measurement 2**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.12 dB	0.50 dB



廠商會檢定中心

# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Band Edge high (2480 MHz; GFSK; DH5)

#### Result

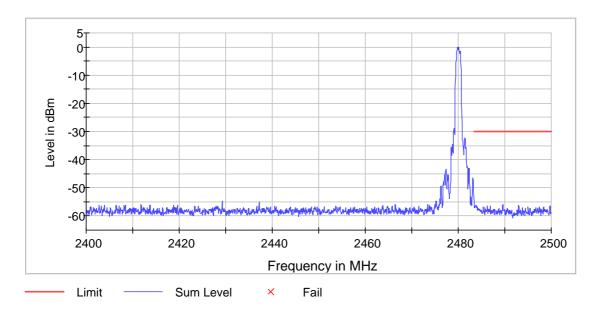
DUT Frequency (MHz)	Result
2480.000000	PASS

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2480.125000	0.0

#### **Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2489.575000	-55.8	25.8	-30.0	PASS
2483.825000	-56.1	26.1	-30.0	PASS
2492.975000	-56.1	26.1	-30.0	PASS
2489.525000	-56.2	26.2	-30.0	PASS
2483.725000	-56.4	26.4	-30.0	PASS
2483.675000	-56.4	26.4	-30.0	PASS
2483.625000	-56.4	26.4	-30.0	PASS
2486.225000	-56.5	26.5	-30.0	PASS
2483.775000	-56.5	26.5	-30.0	PASS
2492.925000	-56.5	26.5	-30.0	PASS
2499.725000	-56.5	26.5	-30.0	PASS
2483.975000	-56.5	26.5	-30.0	PASS
2486.875000	-56.5	26.5	-30.0	PASS
2499.775000	-56.6	26.6	-30.0	PASS
2483.875000	-56.6	26.6	-30.0	PASS



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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

#### **Measurement 1**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.20 dB	0.50 dB

### **Measurement 2**

Setting	Instrument Value	Target Value
Start Frequency	2.48350 GHz	2.48350 GHz
Stop Frequency	2.50000 GHz	2.50000 GHz
Span	16.500 MHz	16.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	330	~ 330
Sweeptime	37.969 μs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB



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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Tx Spurious Emission (2402 MHz; GFSK; DH5)

# Result Inband Peak

Frequency	Level
(MHz)	(dBm)
2402.000	1.6

#### **Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result

#### **Pre Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)		
2399.975000	-40.8	12.5	-28.4		
2399.925000	-41.9	13.5	-28.4		
2399.875000	-44.6	16.2	-28.4		
4804.125000	-44.8	16.4	-28.4		
4804.175000	-45.0	16.7	-28.4		
4804.075000	-45.0	16.7	-28.4		
4803.775000	-45.5	17.2	-28.4		
4803.725000	-45.8	17.4	-28.4		
4804.025000	-45.9	17.5	-28.4		
4804.425000	-45.9	17.5	-28.4		
4804.375000	-46.0	17.7	-28.4		
4804.225000	-46.2	17.8	-28.4		
4803.925000	-46.2	17.9	-28.4		
2399.825000	-46.4	18.0	-28.4		
4803.975000	-46.4	18.0	-28.4		

**Measurement Settings** 

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1500.000000	1	1
1500.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	3983.500000	1	1
3983.500000	5483.500000	1	1
5483.500000	6983.500000	1	1
6983.500000	8483.500000	1	1
8483.500000	9983.500000	1	1
9983.500000	11483.500000	1	1
11483.500000	12983.500000	1	1
12983.500000	14483.500000	1	1
14483.500000	15983.500000	1	1
15983.500000	17483.500000	1	1
17483.500000	18983.500000	1	1
18983.500000	20483.500000	1	1
20483.500000	21983.500000	1	1
21983.500000	23483.500000	1	1
23483.500000	24983.500000	1	1
24983.500000	26000.000000	1	1

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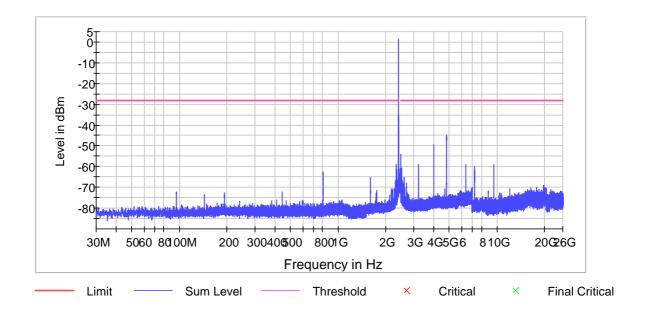
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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019



### **Pre Measurement 1**

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	29400	~ 29400
Sweeptime	29.400 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	2 / max. 40	max. 40
Stable	1/1	1
Max Stable Difference	0.91 dB	1.00 dB



廠商會檢定中心

# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Tx Spurious Emission (2441 MHz; GFSK;DH5)

### Result

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2441.000	1.6

#### **Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result

#### **Pre Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4882.075000	-43.1	14.8	-28.4
4881.725000	-44.0	15.6	-28.4
4881.675000	-44.4	16.0	-28.4
4882.125000	-44.5	16.1	-28.4
4881.775000	-44.8	16.5	-28.4
4882.025000	-44.9	16.5	-28.4
4882.175000	-45.1	16.8	-28.4
4882.375000	-45.3	16.9	-28.4
4882.425000	-45.4	17.1	-28.4
4881.975000	-45.6	17.2	-28.4
4882.475000	-46.0	17.6	-28.4
4882.225000	-46.0	17.7	-28.4
4881.925000	-46.2	17.8	-28.4
4881.825000	-46.3	17.9	-28.4
4882.325000	-46.7	18.4	-28.4

**Measurement Settings** 

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1500.000000	1	1
1500.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	3983.500000	1	1
3983.500000	5483.500000	1	1
5483.500000	6983.500000	1	1
6983.500000	8483.500000	1	1
8483.500000	9983.500000	1	1
9983.500000	11483.500000	1	1
11483.500000	12983.500000	1	1
12983.500000	14483.500000	1	1
14483.500000	15983.500000	1	1
15983.500000	17483.500000	1	1
17483.500000	18983.500000	1	1
18983.500000	20483.500000	1	1
20483.500000	21983.500000	1	1
21983.500000	23483.500000	1	1
23483.500000	24983.500000	1	1
24983.500000	26000.000000	1	1

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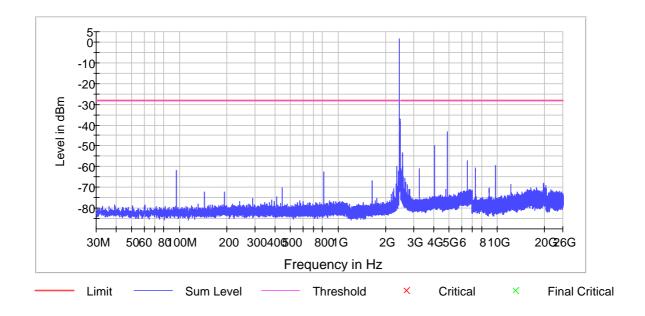
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廠商會檢定中心

## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019



### **Pre Measurement 1**

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	29400	~ 29400
Sweeptime	29.400 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	2 / max. 40	max. 40
Stable	1/1	1
Max Stable Difference	0.66 dB	1.00 dB



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# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

### Tx Spurious Emission (2480 MHz; GFSK;DH5)

# Result

### **Inband Peak**

Frequency	Level
(MHz)	(dBm)
2480.000	1.1

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result

#### **Pre Measurements**

Frequency	Level	Margin	Limit
(MHz)	(dBm)	(dB)	(dBm)
4960.425000	-43.2	14.3	-28.9
4960.075000	-43.9	14.9	-28.9
4960.125000	-44.3	15.4	-28.9
4960.375000	-44.6	15.6	-28.9
4960.025000	-44.6	15.7	-28.9
4959.775000	-44.6	15.7	-28.9
4959.725000	-44.7	15.8	-28.9
4959.975000	-44.8	15.8	-28.9
4960.475000	-45.0	16.1	-28.9
4959.675000	-45.2	16.3	-28.9
4960.175000	-45.2	16.3	-28.9
4959.825000	-45.6	16.6	-28.9
4959.925000	-46.1	17.2	-28.9
4960.325000	-46.2	17.3	-28.9
4959.875000	-46.2	17.3	-28.9

**Measurement Settings** 

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1500.000000	1	1
1500.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	3983.500000	1	1
3983.500000	5483.500000	1	1
5483.500000	6983.500000	1	1
6983.500000	8483.500000	1	1
8483.500000	9983.500000	1	1
9983.500000	11483.500000	1	1
11483.500000	12983.500000	1	1
12983.500000	14483.500000	1	1
14483.500000	15983.500000	1	1
15983.500000	17483.500000	1	1
17483.500000	18983.500000	1	1
18983.500000	20483.500000	1	1
20483.500000	21983.500000	1	1
21983.500000	23483.500000	1	1
23483.500000	24983.500000	1	1
24983.500000	26000.000000	1	1

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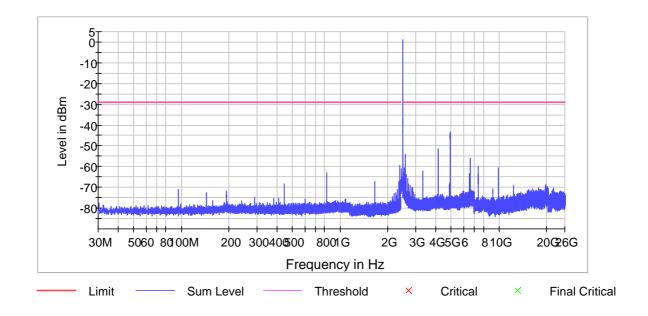
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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019



### **Pre Measurement 1**

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	29400	~ 29400
Sweeptime	29.400 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	6 / max. 40	max. 40
Stable	1/1	1
Max Stable Difference	0.20 dB	1.00 dB



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# **TEST REPORT**

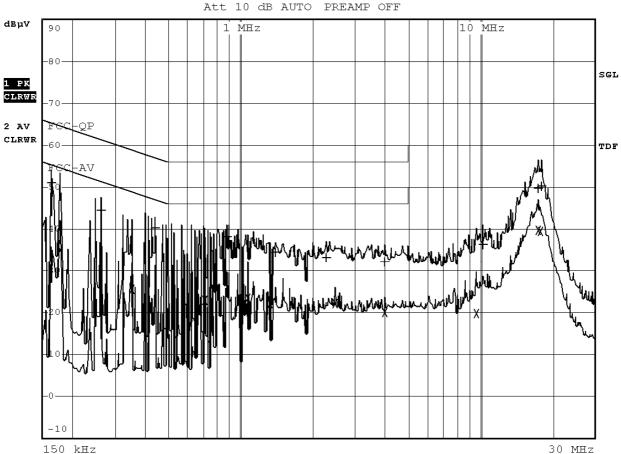
Report No. Nov 13, 2019 AY0061438(0) Date:

### **Conducted Emission**

Test mode: Bluetooth+ charging



RBW 9 kHz 1 s





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## **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

EDIT PEAK LIST (Final Measurement Results)						
Tra	icel:	FCC-QP				
Tra	ice2:	FCC-AV				
Tra	.ce3:					
	TRACE	FREQUENCY	LEVEL di	BμV	DELTA LIMIT dB	
1	Quasi Peak	163.5 kHz	50.95	L1 gnd	-14.33	
2	Average	177 kHz	35.07	L1 gnd	-19.54	
1	Quasi Peak	262.5 kHz	44.52	L1 gnd	-16.82	
2	Average	352.5 kHz	25.65	L1 gnd	-23.24	
1	Quasi Peak	442.5 kHz	40.29	L1 gnd	-16.72	
2	Average	707 kHz	23.00	L1 gnd	-22.99	
1	Quasi Peak	878 kHz	38.13	L1 gnd	-17.86	
2	Average	1.067 MHz	23.38	N gnd	-22.61	
2	Average	1.3325 MHz	22.22	N gnd	-23.77	
1	Quasi Peak	1.4045 MHz	34.47	L1 gnd	-21.52	
1	Quasi Peak	2.291 MHz	33.09	L1 gnd	-22.90	
2	Average	2.489 MHz	22.06	L1 gnd	-23.94	
2	Average	3.983 MHz	19.92	L1 gnd	-26.07	
1	Quasi Peak	4.0145 MHz	32.14	L1 gnd	-23.85	
2	Average	9.6215 MHz	19.78	L1 gnd	-30.21	
1	Quasi Peak	10.3325 MHz	36.20	L1 gnd	-23.79	
1	Quasi Peak	17.5595 MHz	49.66	L1 gnd	-10.33	
2	Average	17.5595 MHz	39.86	L1 gnd	-10.13	
2	Average	17.789 MHz	39.48	Ll gnd	-10.51	
1	Quasi Peak	17.987 MHz	50.21	L1 gnd	-9.78	



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# **TEST REPORT**

Report No. Nov 13, 2019 AY0061438(0) Date:

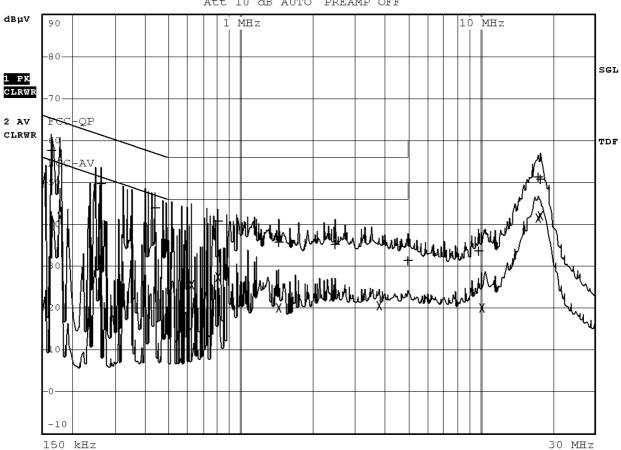
#### **Conducted Emission**

Test mode: Aux-in+ charging



RBW 9 kHz MT1 s

Att 10 dB AUTO PREAMP OFF





廠商會檢定中心

# **TEST REPORT**

Report No. : AY0061438(0) Date : Nov 13, 2019

	EDIT PEAK LIST (Final Measurement Results)						
Tra	Tracel: FCC-QP						
Tra	ıce2 <b>:</b>	FCC-AV					
Tra	ıce3 <b>:</b>						
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB			
1	Quasi Peak	163.5 kHz	57.68 L1 gnd	-7.59			
2	Average	177 kHz	41.92 L1 gnd	-12.70			
1	Quasi Peak	262.5 kHz	49.69 L1 gnd	-11.65			
2	Average	262.5 kHz	30.83 L1 gnd	-20.51			
1	Quasi Peak	442.5 kHz	43.94 L1 gnd	-13.06			
2	Average	621.5 kHz	25.68 L1 gnd	-20.31			
1	Quasi Peak	801.5 kHz	40.79 L1 gnd	-15.20			
2	Average	801.5 kHz	27.42 L1 gnd	-18.57			
1	Quasi Peak	1.4405 MHz	35.75 L1 gnd	-20.24			
2	Average	1.4405 MHz	20.01 L1 gnd	-25.98			
2	Average	2.408 MHz	22.78 L1 gnd	-23.21			
1	Quasi Peak	2.489 MHz	35.36 L1 gnd	-20.63			
2	Average	3.8075 MHz	20.65 L1 gnd	-25.35			
1	Quasi Peak	4.982 MHz	31.37 L1 gnd	-24.62			
1	Quasi Peak	9.9005 MHz	33.70 L1 gnd	-26.29			
2	Average	10.175 MHz	19.94 L1 gnd	-30.05			
1	Quasi Peak	17.4065 MHz	51.32 L1 gnd	-8.67			
2	Average	17.4695 MHz	41.49 L1 gnd	-8.50			
1	Quasi Peak	17.843 MHz	50.76 L1 gnd	-9.23			
2	Average	17.843 MHz	41.99 L1 gnd	-8.00			

\*\*\*\*\* End of Report \*\*\*\*\*