

廠商會檢定中心

TEST REPORT

Report No.	•	AW0071242(5	•	Date:	Dec 24,	2018
ACDOIL I 10.	•	111100/1272(3	,	Date.	DCC 27,	2010

Application No. : LW031912(5)

Applicant : Kondor Limited

Radar Way

Christchurch Business Park Christchurch, BH23, 4FL

United Kingdom

Sample Description:

Sample Description	Model No.	
XDOCK QI	KSXDOCKQI	

Date Received : Oct 8, 2018

Test Period : Oct 15, 2018 – Dec 20, 2018

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

ISED Certification for License-exempt Device

Test Method : 47 CFR Part 15 (10-1-17 Edition),

ANSI C63.10 – 2013, ANSI C63.4 – 2014 RSS-247 Issue 2, RSS-Gen Issue 5,

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, and ISED Canada Radio Standards Specification

RSS-247 Issue 2.

For and on behalf of

CMA Industrial Development Foundation Limited

Authorized Signature: Page 1 of 70

Manager Electrical Division

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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RESULT SUMMARY

Test Item	FCC Requirement	RSS Requirement	Test Method	Result
Number of hopping	§15.247(a)(1)(iii)	RSS-247 §5.1(d)	ANSI C63.10 §7.8.3	PASS
frequency				
Band-edge	§15.247(d)	RSS-247 §5.5	ANSI C63.10 §7.8.6	PASS
			and 6.10	
Carrier frequency separation	§15.247(a)	RSS-247 §5.1(b)	ANSI C63.10 §7.8.2	PASS
Time of occupancy (dwell	§15.247(a)	RSS-247 §5.1(b)	ANSI C63.10 §7.8.4	PASS
time)	6 ()	02.7 (2)	0	11100
Output power	§15.247(b)(1)	RSS-247 §5.4	ANSI C63.10 §7.8.5	PASS
Occupied bandwidth	§15.247(a)	RSS-247 §5.1(a)	ANSI C63.10 §7.8.7	PASS
-			and 6.9.2	
Conducted spurious	§15.247(d)	RSS-247 §5.5	ANSI C63.10 §5.5,	PASS
emission (Transmitter)			5.6, 7.8.8, and	
			11.12.2.1	
Radiated spurious	§15.247(d)	RSS-247 §5.5	ANSI C63.10 §6.4 –	PASS
emission (Transmitter)			6.6	
Radiated spurious	§15.109(a)	RSS-Gen, §7.0	ANSI C63.4 §8.3	PASS
emission (Receiver)				
Conducted emission on	§15.207(a)	RSS-Gen, §8.8	ANSI C63.4 §7.3	PASS
AC mains				
Frequency Stability	N/A	RSS-Gen §8.11	ANSI C63.10 §6.8	PASS
			and RSS-Gen §6.11	
Frequency Hopping	§15.247(a)(1), (g),	RSS-247 §5.1	N/A	PASS
System Requirement	(h)			



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1 Product Information

1.1 General Information

Product Descriptin:	Model:
XDOCK QI	KSXDOCKQI

Primary function : Receive the audio signal from player by Bluetooth

communication and Aux-in port, Alarm Clock, FM

Radio and Wireless Charging function.

Power supply : AC 100 – 240V (With AC/DC adaptor)

RF related function : Bluetooth communication for audio communication

Electric Accessories sold : AC/DC adaptor (Model: ICP30-090-2000)

with

Interconnection cable : 1.0m 3.5mm audio cable

associated sold with

Operating condition : Not specified Model difference : Not applicable

Remark : NIL

1.2 Technical Information

Operating Frequency : 2402 – 2480MHz

Digital Modulation : FHSS

Modulation : GFSK, $\pi/4$ DQPSK

Number of Channel : 79
Channel Bandwidth : 1MHz
Occupied Bandwidth : 1.20MHz
Signal Type : Data
Number of Antenna : One

Antenna Type : PCB Type Antenna

Antenna Gain : -0.58 dBi

Rated Input Voltage : AC 100 – 240V (with AC/DC adaptor)

RF Technology Used : Bluetooth 2.1+EDR (non BLE)

Simplex or Duplex : Half-duplex Adaptivity : FHSS adaptivity



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1.3 Associated Electric Accessories Information

AC/DC Adaptor : Model: ICP30-090-20000

Input: 100-240Vac, 50/60Hz, 0.8A

Output: 9Vdc, 2000mA

Remark: with exchangeable plug pin and ferrite near in

dc output terminal

1.4 Associated Cables

Cable Type	Length	Shielding	Ferrite attached
3.5mm audio cable	1.0m	No	No

2.0 Equipment Units Tested (EUT)

Product Description : XDOCK QI Model : KSXDOCKQI Serial No. : Not specified

Sample Type : Production Sample and engineering sample

Sample No. : RW036211-007(9)
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) ISED Wireless Test Site (ISED Assigned Code: 4093A)

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4.0 List of test equipment, supporting equipment and cables

4.1 Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period	
EMI Test Receiver	Rohde & Schwarz	ESCS30	100001	01 Feb 2019	1Year	
EMI Test Receiver	Rohde & Schwarz	ESCI	100152	07 Dec 2019	1Year	
Spectrum Analyzer	R&S	FSV40	100964	08 Feb 2019	1Year	
Spectrum Analyzer	Rohde & Schwarz	FSP30	100628	27 Mar 2019	1Year	
Broadband Antenna	Schaffner	CBL6112B	2692	28 Mar 2019	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	17 May 2019	1Year	
Coaxial Cable	Suhner	RG 214/U	N/A	17 May 2019	1Year	
Coaxial Cable	Suhner	Sucoflex_104	N/A	21 Dec 2019	1Year	
LISN	Rohde & Schwarz	ENV216	101323	16 Jan 2019	1Year	
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	23 Oct 2019	1Year	
	Rohde & Schwarz TS8997 Testing System					
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101190	08 Aug 2019	1Year	
Vector Generator	Rohde & Schwarz	SMBV100A	262024	08 Aug 2019	1Year	
Generator	Rohde & Schwarz	SMB100A	103230	08 Aug 2019	1Year	
OSP	Rohde & Schwarz	OSP	OSP120 V02	08 Aug 2019	1Year	

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4.2 Supporting equipment

Equipment Name	Manufacturer	Model	Serial	Provided by
USB-UART serial	Not labelled	FT232	Not labelled	Applicant
adaptor*				

Remark: *only used for configure engineering mode

4.3 Cables

Cable Type	Length	Shielding	Ferrite used	Provided by
USB Cable*	1m	Not shielded	No	CMA

Remark: *only used for configure engineering mode

4.4 Software

Software Name	Version	Function	Provided by
FCC Assist*	2.4	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

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Frequency	Uncertainty (U _{lab})			
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			

Line-conducted emissions

Frequency	Uncertainty (U _{lab})			
150kHz~30MHz	2.80dB			

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6.0 Measurement

6.1 General Test condition

Temperature : 26.9 °C
Test Voltage : AC 120V
Humidity : 56.5%
Atmosphere Pressure : 101.3kPa

6.2 Number of hopping frequency

6.2.1 Measurement

Requirement : FCC Part 15 § 15.247(a)(1)(iii) and RSS-247 §5.1(d)

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, A3



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6.3 Band-edge measurement

6.3.1 Measurement

FCC Part 15 §15.247(d) and RSS-247 §5.5 Requirement ANSI C63.10:2013, section 7.8.6 and 6.10 Measuring procedure

Hopping mode Enabled and Disable

RBW : 100kHz **VBW** 300kHz

2310 – 2400MHz and 2483.5 – 2500MHz Frequency range

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

Packet Type tested

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

hopping mode

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 ¹	Result	Worst case
for lower bandedge	case		(dBc)		
(Worst Case)	$(dBc)^2$				
2397.875000MHz	32.0	Peak	≥20.0	PASS	GFSK and DH5
Bandedge frequency	Worst	Detector	Limit ¹	Result	Worst case
for higher bandedge	case in				
(Worst Case)	$(dBc)^2$				
2486.025000MHz	49.7	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, A4-7, A12-13, A16-17

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6.4 Carrier Frequency Separation

6.4.1 Measurement

Requirement : FCC Part 15 §15.247(a) and RSS-247 §5.1(b)

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

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

Frequency range : 2401 - 2404MHz, 2440 - 2443MHz, 2478 - 2481MHz¹

Modulation tested : GFSK²
Packet Type tested : DH5
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 ¹	Result	Worst case mode
1.009901MHz	≥0.822000MHz	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, A18-20

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6.5 Time of occupancy (dwell time)

6.5.1 Measurement

Requirement : FCC Part 15 §15.247(a) and RSS-247 §5.1(a)

: 2441MHz

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

Hopping mode : Disable RBW : 500kHz VBW : 1MHz Modulation tested : GFSK¹

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
327.640ms	≤400ms	PASS	GFSK and DH5

Remark: 1) Detail test result and equipment setting refer to appendix A, A8-10

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6.6 Output Power

6.6.1 Measurement

Requirement : FCC Part 15 §15.247(b) (1) and RSS-247 §5.4

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

: Nil

Hopping mode : Disable

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

Packet Type tested : DH5¹

Channel tested for non-

hopping mode

: 2402MHz, 2441MHz, 2480MHz

Additional measuring

procedure

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

is selected as represented packet size.

6.6.2 Final Result

(a) Maximum peak conducted outputpwer

() -:			
Maximum peak conducted output	Limit(s) ¹	Result	Modulation
power			
-6.5dBm	≤21.0dBm	PASS	GFSK
-6.5dBm	≤21.0dBm	PASS	π/4QPSK

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

2) Detail test result and equipment setting refer to appendix A, A11, A14, A15

(b) Maximum peak e.i.r.p.(for RSS-247)

36 1 1 1	T + 1.7.2		36 11 3
Maximum peak e.i.r.p. ¹	$Limit(s)^2$	Result	Modulation
-7.1dBm	≤27.0dBm	PASS	GFSK
-7.1dBm	≤27.0dBm	PASS	π/4OPSK

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, A11, A14, A15

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6.7 Occupied Bandwidth

6.7.1 Measurement

Requirement : FCC Part 15 §15.247(a) and RSS-247 §5.1(a) Measuring procedure : ANSI C63.10:2013, section 7.8.7 and 6.9.2

Hopping mode : Disable

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

Packet Type tested : DH5¹

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
0.8509MHz	08394MHz	GFSK
1.2330MHz	1.1679MHz	π/4DQPSK

Remark: 1) Detail test result and equipment setting refer to appendix A, A30 - 35



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6.8 Conducted Spurious emission (Transmitter)

6.8.1 Measurement

Requirement : FCC Part 15 §15.247(d) and RSS-247 §5.5

:

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 : $GFSK^1$ Packet Type tested : $DH5^2$

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

2402MHz, 2441MHz, 2480MHz

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 ²	Margin	Result	Worst case mode
spurious	spurious				
emission	emission				
frequency	power ¹				
4804.250MHz	-44.6dBm	-41.2dBm	-3.4dB	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) + 4.7dB 104.8dB 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, A21-29

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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 DH5packet type are selected as worst case mode for spurious radiated emission test from cabinet. Other non-bluetooth operating mode such as charging mode and Aux-in mode for digital part of EUT may be tested.

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6.9.2 Final Result

a) Test mode: Bluetooth hopping

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m ¹ (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)
V	2371.428	53.0	-6.7	46.3	54.0	-7.7	Peak
V	2394.179	58.6	-6.7	51.9	54.0	-2.1	Peak
V	2397.866	60.9	-6.7	54.2	74.0	-19.8	Peak
V	2398.055	58.0	-6.7	51.3	54.0	-2.7	Average
V	2400.000	57.9	-4.7	53.2	54.0	-0.8	Peak
V	2483.500	44.4	-4.7	39.7	54.0	-14.3	Peak
V	2507.808	52.8	-4.7	48.1	54.0	-5.9	Peak
V	2544.241	47.5	-4.7	42.8	54.0	-11.2	Peak
Н	4804.373	42.5	2.3	44.8	54.0	-9.2	Peak
Н	4881.814	40.4	2.3	42.7	54.0	-11.3	Peak
V	4960.301	38.1	2.8	40.9	54.0	-13.1	Peak
V	7205.756	32.7	9.6	42.3	54.0	-11.7	Peak
V	7323.848	33.0	9.6	42.6	54.0	-11.4	Peak
V	7440.214	32.4	9.6	42.0	54.0	-12.0	Peak

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

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



TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

6.10 Radiated Spurious emission (Receiver)

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.

Bluetooth receiving mode are selected for spurious radiated emission test from cabinet.

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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 ¹ (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)
V	46.529	13.9	11.3	25.2	40.0	-14.8	V
Н	69.365	16.9	10.0	26.9	40.0	-13.1	Н
V	107.187	14.0	11.2	25.2	43.5	-18.3	V
Н	125.520	11.9	12.6	24.5	43.5	-19.0	Н
V	151.717	13.8	13.5	27.3	43.5	-16.2	V
Н	196.901	7.9	15.3	23.2	43.5	-20.3	Н
V	180.636	12.1	15.3	27.4	43.5	-16.1	V
Н	262.255	12.2	14.5	26.7	46.0	-19.3	Н

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

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



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

6.11 Conducted Emission

6.11.1 Measurement

Requirement : FCC Part 15 §15.207(a) and RSS-Gen, clause 8.8

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

Test mode : Bluetooth Hopping

RBW : 9kHz
VBW : 30kHz
Modulation tested : GFSK¹
Packet Type tested : DH5
Additional measuring : Nil

procedure

Remark : Nil

6.11.2 Final Result

	Worst case	Worst case	Limit	Margin	Detector	Lines	Worst case	Result
	conducted	conducted					mode	
	emission	emission						
	frequency							
ĺ	0.4785MHz	40.91dBμV	56.35dBμV	-15.44dB	QP	L	Bluetooth	PASS

Remark: 1) Detail test result and equipment setting refer to appendix A, A36-37



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TEST REPORT

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6.12 Frequency Stability

6.12.1 Measurement

Requirement : RSS-Gen, clause 8.11

Measuring procedure : ANSI C63.10:2013, section 6.8 and RSS Gen clause 6.11

Test mode : Non-hopping mode without modulation

RBW : 500Hz
VBW : 3kHz
Modulation tested : GFSK
Packet Type tested : DH5
Additional measuring : Nil

procedure

Remark : Nil

6.11.2 Final Result

Test	Test Channel	Measured	Frequency range of 80% of	Result
Temperature	(MHz)	Channel	channel bandwidth	
(°C)		Frequency		
		(MHz)		
20	2402.00000	2402.03040	2401.60000 - 2402.40000	PASS
20	2441.00000	2441.03040	2440.60000 - 2441.40000	PASS
20	2480.00000	2480.03040	2479.60000 – 2480.40000	PASS
-20	2402.00000	2402.02891	2401.60000 - 2402.40000	PASS
-20	2441.00000	2441.02890	2440.60000 - 2441.40000	PASS
-20	2480.00000	2480.02890	2479.60000 – 2480.40000	PASS
50	2402.00000	2402.03040	2401.60000 - 2402.40000	PASS
50	2441.00000	2441.03040	2440.60000 - 2441.40000	PASS
50	2480.00000	2480.03040	2479.60000 - 2480.40000	PASS

Remark: 1) Test Voltage: AC120V 2) Channel Bandwidth: 1MHz

Test Voltage	Test Channel (MHz)	Measured Channel Frequency (MHz)	Frequency range of 80% of channel bandwidth	Result
AC 138V	2402.00000	2402.03060	2401.60000 - 2402.40000	PASS
AC 138V	2441.00000	2441.03060	2440.60000 - 2441.40000	PASS
AC 138V	2480.00000	2480.03060	2479.60000 – 2480.40000	PASS
AC 102V	2402.00000	2402.02890	2401.60000 - 2402.40000	PASS
AC 102V	2441.00000	2441.02890	2440.60000 - 2441.40000	PASS
AC 102V	2480.00000	2480.02890	2479.60000 - 2480.40000	PASS

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Remark: 1) Test temperature: 20°C

2) Channel Bandwidth: 1MHz

7.0 Frequency Hopping System Requirement

Test Requirement: Section 15.247(a)(1), (g), (h) and RSS-247, section 5.1 requirement

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.

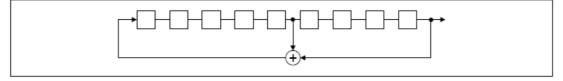
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented 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) and RSS-247 section 5.1(a)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th 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: 29-1=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

Report No.	: AW00	71242(5)		Date:	Dec 24, 2018
		equency Hopping	100 100	wing:	
20 62 4	6 77	7 64	8 73		16.75 1
		1 1	1 1 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) and RSS-247 section 5.1 2nd paragraph

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) and RSS-247 section 5.1 3rd paragraph

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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APPENDIX A Test Result

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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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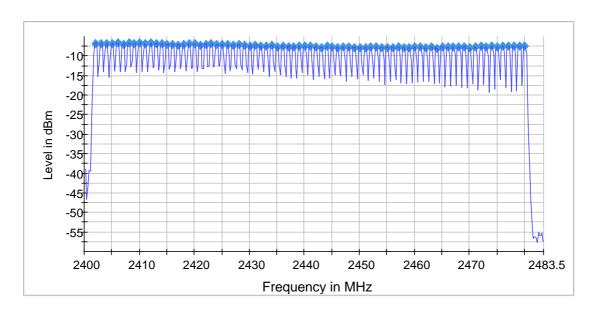
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	42 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.45 dB	0.50 dB

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Band Edge low (Hopping; GFSK; DH5)

Result

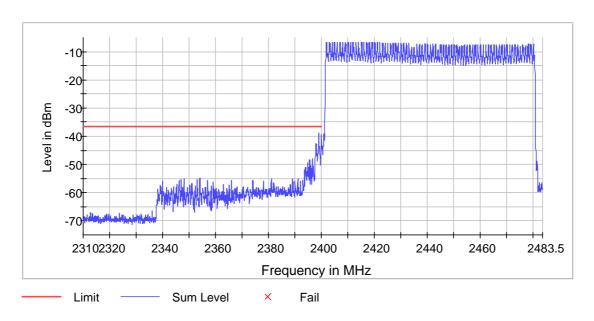
DUT Frequency (MHz)	Result
hopping	PASS

Inband Peak

Frequency	Level
(MHz)	(dBm)
2410.225000	-6.6

Measurements

Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2399.025000	-38.8	2.2	-36.6	PASS
2399.075000	-39.0	2.4	-36.6	PASS
2398.925000	-42.1	5.5	-36.6	PASS
2399.975000	-42.2	5.7	-36.6	PASS
2398.875000	-42.4	5.9	-36.6	PASS
2397.925000	-42.7	6.1	-36.6	PASS
2397.975000	-42.8	6.3	-36.6	PASS
2398.075000	-42.9	6.3	-36.6	PASS
2397.875000	-43.0	6.4	-36.6	PASS
2399.125000	-43.1	6.5	-36.6	PASS
2398.025000	-43.2	6.7	-36.6	PASS
2398.125000	-43.4	6.9	-36.6	PASS
2399.875000	-43.6	7.0	-36.6	PASS
2398.975000	-43.6	7.0	-36.6	PASS
2397.825000	-43.7	7.1	-36.6	PASS



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	13 / 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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	150 / max. 150	max. 150
Stable	0/3	3
Max Stable Difference	0.89 dB	0.50 dB

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Band Edge high (Hopping; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
hopping	PASS

Inband Peak

Frequency	Level
(MHz)	(dBm)
2406.225000	-6.5

Measurements

modear officerite					
Frequency	Level	Margin	Limit	Result	
(MHz)	(dBm)	(dB)	(dBm)		
2486.025000	-56.2	19.6	-36.5	PASS	
2485.975000	-57.0	20.4	-36.5	PASS	
2496.025000	-57.5	20.9	-36.5	PASS	
2486.075000	-57.5	21.0	-36.5	PASS	
2496.075000	-57.8	21.3	-36.5	PASS	
2492.825000	-57.8	21.3	-36.5	PASS	
2499.975000	-57.9	21.4	-36.5	PASS	
2500.000000	-57.9	21.4	-36.5	PASS	
2492.775000	-58.0	21.5	-36.5	PASS	
2489.975000	-58.0	21.5	-36.5	PASS	
2497.025000	-58.1	21.5	-36.5	PASS	
2490.025000	-58.1	21.6	-36.5	PASS	
2496.375000	-58.1	21.6	-36.5	PASS	
2496.725000	-58.2	21.6	-36.5	PASS	
2496.325000	-58.2	21.7	-36.5	PASS	

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

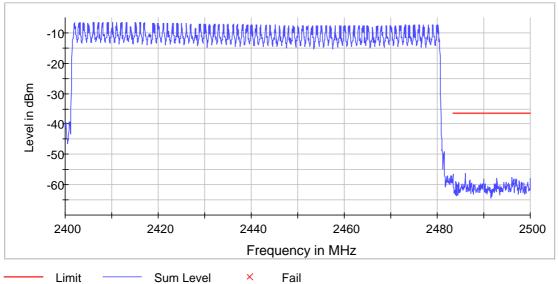
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TEST REPORT

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TEST REPORT

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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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	150 / max. 150	max. 150
Stable	0/3	3
Max Stable Difference	2.09 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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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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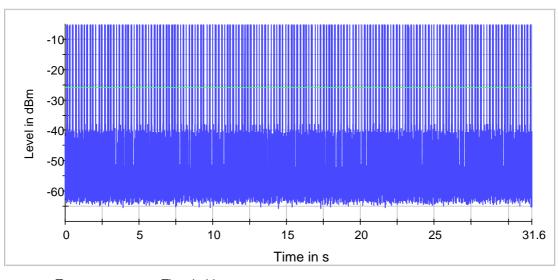
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Time of Channel Occupancy (2441 MHz; GFSK; DH1)

Result

DUT Frequency (MHz)	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)	Result
2441.000000	134.630	400.000	0.000	-26.0	PASS



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 ms	0.000 ms

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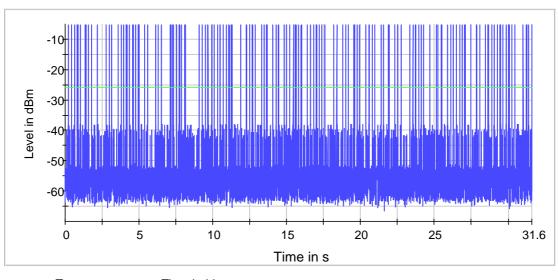
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Time of Channel Occupancy(2) (2441 MHz; GFSK; DH3)

Result

	DUT Frequency (MHz)	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)	Result
ı	2441.000000	271.600	400.000	0.000	-26.0	PASS



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 ms	0.000 ms

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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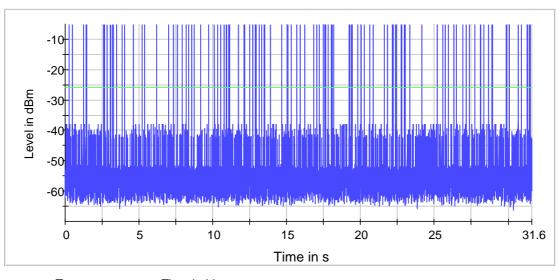
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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

Result

	DUT Frequency (MHz)	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)	Result
Г	2441.000000	327.640	400.000	0.000	-26.0	PASS



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 ms	0.000 ms

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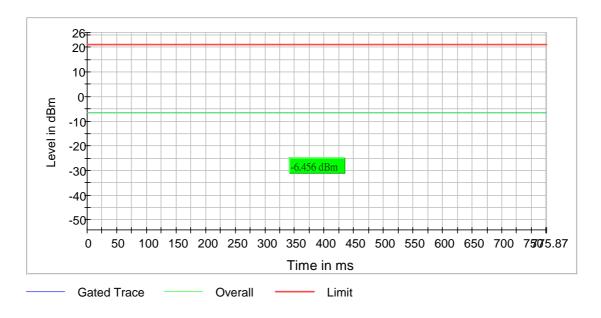
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

RF output power (2402 MHz; GFSK; DH5)

Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
(MHz)	(dBm)	(dBm)	(dBm)	(%)	
2402.000000	-6.5	21.0	-7.1	77.755	PASS



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Band Edge low (2402 MHz; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Inband Peak

Frequency	Level
(MHz)	(dBm)
2402.225000	-6.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
` '	•	• /		
2397.875000	-38.6	1.9	-36.6	PASS
2398.025000	-38.7	2.1	-36.6	PASS
2398.175000	-38.8	2.1	-36.6	PASS
2398.225000	-38.8	2.2	-36.6	PASS
2397.925000	-39.0	2.3	-36.6	PASS
2398.075000	-39.2	2.6	-36.6	PASS
2398.275000	-40.5	3.9	-36.6	PASS
2397.975000	-40.6	4.0	-36.6	PASS
2397.825000	-40.6	4.0	-36.6	PASS
2398.125000	-41.3	4.7	-36.6	PASS
2399.975000	-42.4	5.7	-36.6	PASS
2397.725000	-43.0	6.4	-36.6	PASS
2397.775000	-43.1	6.5	-36.6	PASS
2397.675000	-43.1	6.5	-36.6	PASS
2398.425000	-43.3	6.7	-36.6	PASS

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

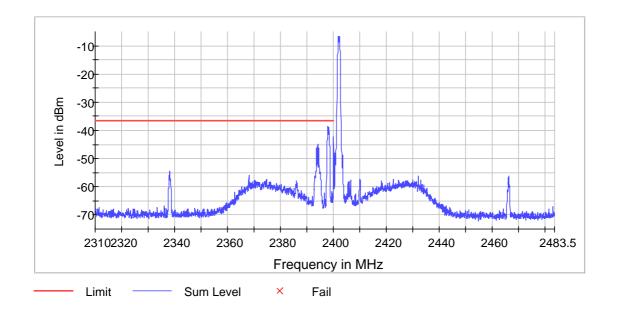
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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	7 / 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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	0.24 dB	0.50 dB

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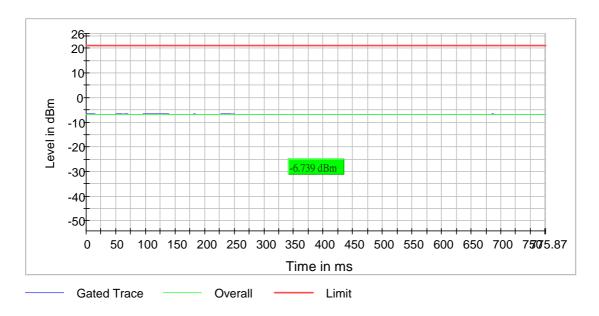
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

RF output power (2441 MHz; GFSK; DH5)

Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
(MHz)	(dBm)	(dBm)	(dBm)	(%)	
2441.000000	-6.7	21.0	-7.3	77.755	PASS



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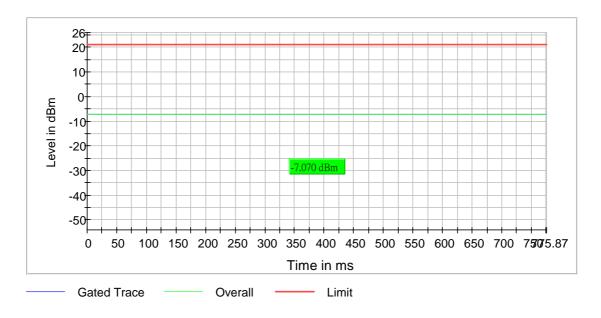
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

RF output power (2480 MHz; GFSK; DH5)

Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
(MHz)	(dBm)	(dBm)	(dBm)	(%)	
2480.000000	-7.1	21.0	-7.7	77.756	PASS



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Band Edge high (2480 MHz; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Inband Peak

Frequency	Level
(MHz)	(dBm)
2480.225000	-7.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2487.875000	-57.3	20.1	-37.3	PASS
2488.025000	-57.8	20.6	-37.3	PASS
2487.825000	-57.9	20.6	-37.3	PASS
2496.025000	-58.0	20.7	-37.3	PASS
2496.075000	-58.2	21.0	-37.3	PASS
2487.925000	-58.3	21.1	-37.3	PASS
2495.975000	-58.5	21.2	-37.3	PASS
2487.975000	-58.6	21.4	-37.3	PASS
2497.225000	-59.2	22.0	-37.3	PASS
2488.075000	-59.3	22.1	-37.3	PASS
2499.125000	-59.4	22.1	-37.3	PASS
2499.925000	-59.4	22.2	-37.3	PASS
2499.675000	-59.5	22.2	-37.3	PASS
2497.275000	-59.5	22.2	-37.3	PASS
2499.975000	-59.5	22.2	-37.3	PASS

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

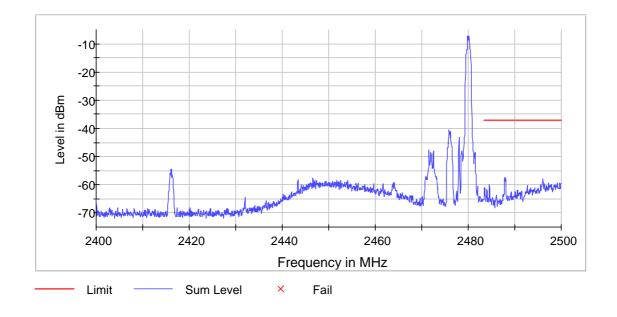
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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018



FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	9 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.27 dB	0.50 dB

Measurement 2

Setting Instrument Target Value					
Instrument Value	Target Value				
2.48350 GHz	2.48350 GHz				
2.50000 GHz	2.50000 GHz				
16.500 MHz	16.500 MHz				
100.000 kHz	<= 100.000 kHz				
300.000 kHz	>= 300.000 kHz				
330	~ 330				
37.969 μs	AUTO				
-10.000 dBm	-10.000 dBm				
10.000 dB	AUTO				
MaxPeak	MaxPeak				
100	100				
3 dB	3 dB				
Max Hold	Max Hold				
FFT	AUTO				
off	off				
Trace	Trace				
0.50 dB	0.50 dB				
4 / max. 150	max. 150				
3/3	3				
0.00 dB	0.50 dB				
	2.48350 GHz 2.50000 GHz 16.500 MHz 100.000 kHz 300.000 kHz 330 37.969 µs -10.000 dBm 10.000 dB MaxPeak 100 3 dB Max Hold FFT off Trace 0.50 dB 4 / max. 150 3 / 3				

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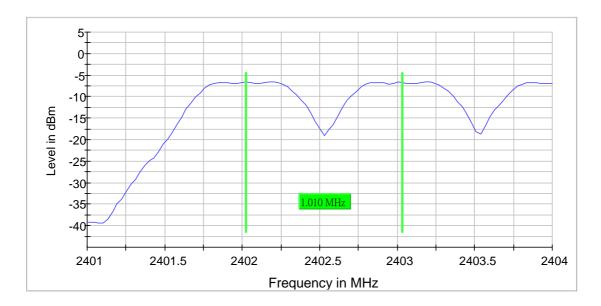
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	0.822000		2402.024752	2403.034653



Measurement

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	-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	18 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.04 dB	0.50 dB

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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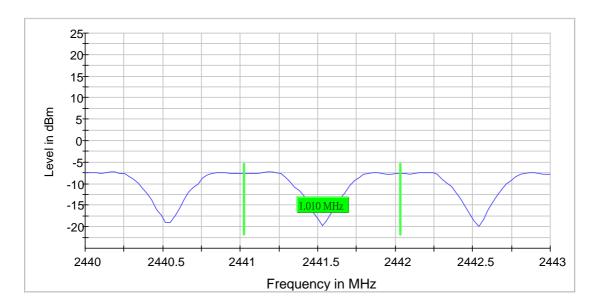
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	0.822000		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	12 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

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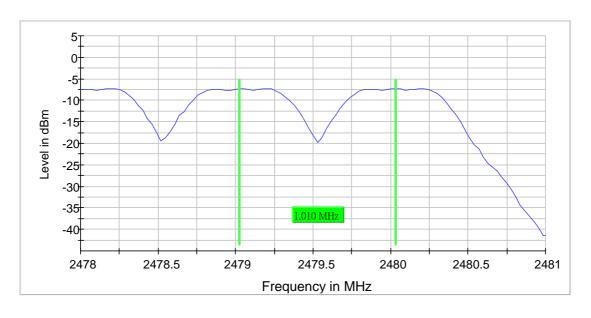
TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

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	0.822000	-	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	-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	20 / max. 150	max. 150
Stable	10 / 10	10

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Max Stable Difference 0.15 dB 0.50 dB

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Tx Spurious Emission (2402 MHz; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2394.750000	-41.4	-50.8	-36.8	14.0	PASS
2398.750000	-38.3	-45.8	-36.8	9.0	PASS
4804.250000	-42.1	-44.6	-41.2	3.4	PASS

Pre Measurements

i i o mioacai oiliolito				
Level (dBm)	Margin (dB)	Limit (dBm)		
-42.1	0.9	-41.2		
-42.1	0.9	-41.2		
-42.5	1.3	-41.2		
-38.3	1.5	-36.8		
-38.4	1.5	-36.8		
-43.7	2.5	-41.2		
-39.7	2.8	-36.8		
-39.8	2.9	-36.8		
-40.2	3.4	-36.8		
-41.4	4.5	-36.8		
-41.4	4.6	-36.8		
-46.0	4.8	-41.2		
-42.4	5.6	-36.8		
-47.5	6.3	-41.2		
-47.5	6.3	-41.2		
	(dBm) -42.1 -42.5 -38.3 -38.4 -43.7 -39.7 -39.8 -40.2 -41.4 -46.0 -42.4 -47.5	(dBm) (dB) -42.1 0.9 -42.1 0.9 -42.5 1.3 -38.3 1.5 -38.4 1.5 -43.7 2.5 -39.7 2.8 -39.8 2.9 -40.2 3.4 -41.4 4.5 -41.4 4.6 -46.0 4.8 -42.4 5.6 -47.5 6.3		

Measurement Settings

Start	Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement		
	30.000000	1000.000000	1	1		
	1000.000000	2400.000000	2	2		
	2400.000000	2483.500000	2	2		
	2483.500000	7000.000000	2	2		
	7000.000000	18000.000000	2	2		
	18000.000000	26000.000000	2	2		

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

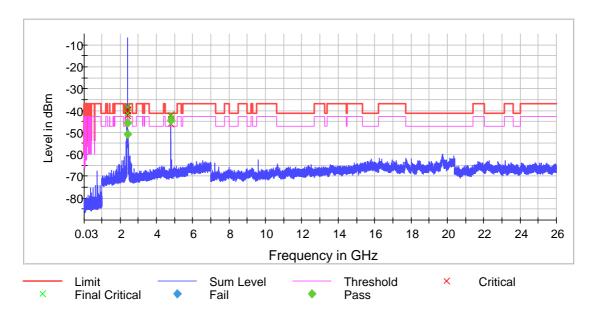
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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
Sweeptime	19.400 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	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

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
Sweeptime	2.800 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	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.07 dB	0.50 dB

Final Measurement 2

Setting	Instrument	Target Value
	Value	
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
Sweeptime	1.000 s	1.000 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Tx Spurious Emission (2441 MHz; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
2441.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4882.750000	-41.9	-48.0	-41.2	6.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)		
4882.750000	-41.9	0.7	-41.2		
4882.250000	-42.0	0.8	-41.2		
4881.750000	-42.2	1.0	-41.2		
4883.250000	-43.3	2.1	-41.2		
4881.250000	-44.9	3.7	-41.2		
4883.750000	-50.2	9.0	-41.2		
2377.250000	-53.5	12.3	-41.2		
4878.250000	-53.5	12.3	-41.2		
4878.750000	-53.5	12.3	-41.2		
2377.750000	-53.5	12.3	-41.2		
4880.750000	-54.1	12.9	-41.2		
4877.750000	-55.0	13.8	-41.2		
2376.750000	-55.4	14.2	-41.2		
2378.250000	-56.0	14.8	-41.2		
4879.250000	-57.1	15.9	-41.2		

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

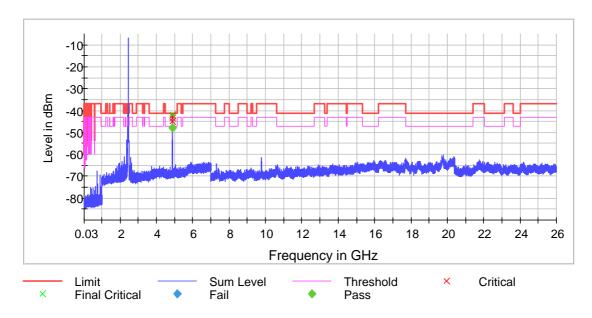
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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
Sweeptime	19.400 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	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
Sweeptime	2.800 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	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

Final Measurement 2

Setting	Instrument	Target Value
	Value	
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
Sweeptime	1.000 s	1.000 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Tx Spurious Emission (2480 MHz; GFSK; DH5)

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4960.750000	-42.7	-48.9	-41.2	7.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)		
4960.750000	-42.7	1.5	-41.2		
4960.250000	-42.8	1.6	-41.2		
4959.750000	-43.0	1.8	-41.2		
4961.250000	-43.7	2.5	-41.2		
4959.250000	-46.4	5.2	-41.2		
2496.250000	-49.8	8.6	-41.2		
2499.750000	-50.3	9.1	-41.2		
2498.250000	-50.3	9.1	-41.2		
2495.750000	-50.5	9.3	-41.2		
2498.750000	-50.7	9.5	-41.2		
2499.250000	-50.8	9.6	-41.2		
2496.750000	-51.3	10.1	-41.2		
4961.750000	-51.5	10.3	-41.2		
2505.750000	-48.6	11.2	-37.4		
2497.250000	-52.6	11.4	-41.2		

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement		
30.000000	1000.000000	1	1		
1000.000000	2400.000000	2	2		
2400.000000	2483.500000	2	2		
2483.500000	7000.000000	2	2		
7000.000000	18000.000000	2	2		
18000.000000	26000.000000	2	2		

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

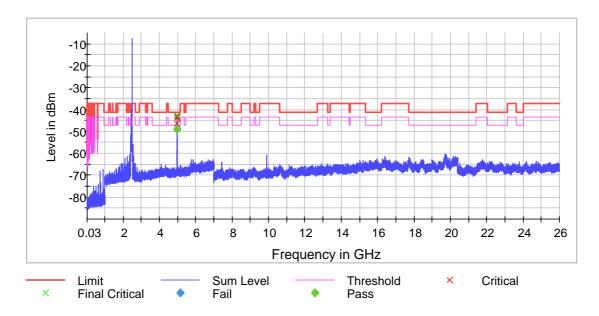
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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
Sweeptime	19.400 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	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
Sweeptime	2.800 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	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

Final Measurement 2

Setting	Instrument	Target Value	
	Value		
Span	ZeroSpan	ZeroSpan	
RBW	1.000 MHz	~ 1.000 MHz	
VBW	3.000 MHz	~ 3.000 MHz	
SweepPoints	10001	~ 10001	
Sweeptime	1.000 s	1.000 s	
Reference Level	-30.000 dBm	-30.000 dBm	
Attenuation	0.000 dB	AUTO	
Detector	RMS	RMS	
SweepCount	1	1	
Filter	3 dB	3 dB	
Trace Mode	Clear Write	Clear Write	
Sweeptype	Sweep	AUTO	
Preamp	off	off	

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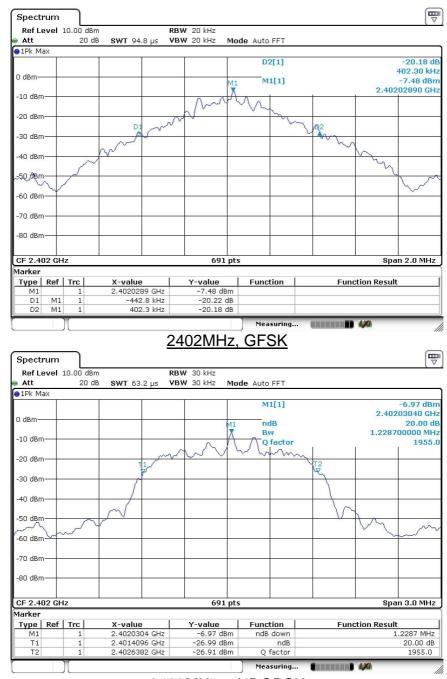


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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

20dB bandwidth



2402MHz, π/4DQPSK

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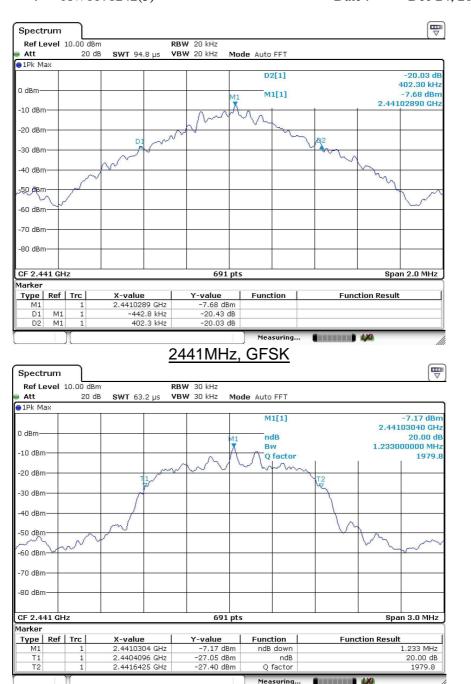
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Report No. : AW0071242(5) Date : Dec 24, 2018



2441MHz, π /4DQPSK

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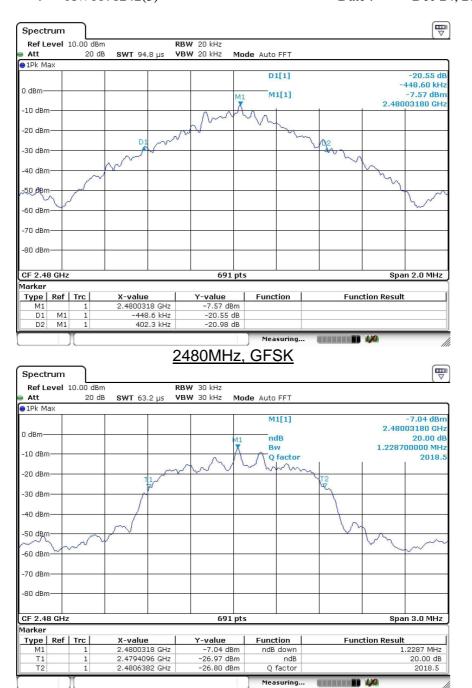
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2480MHz, π /4DQPSK

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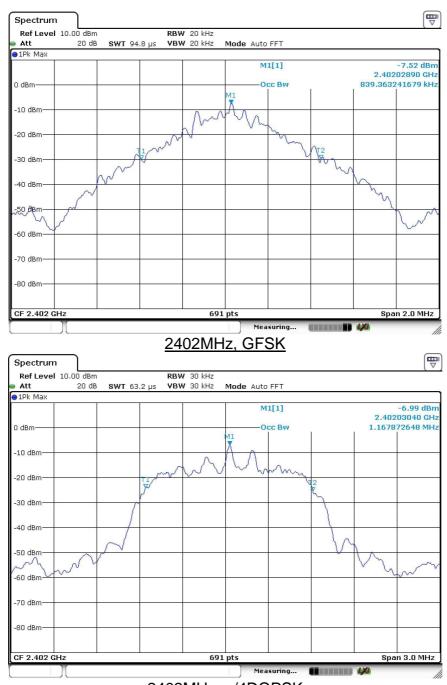


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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

99% Occupied bandwidth



2402MHz, $\pi/4DQPSK$

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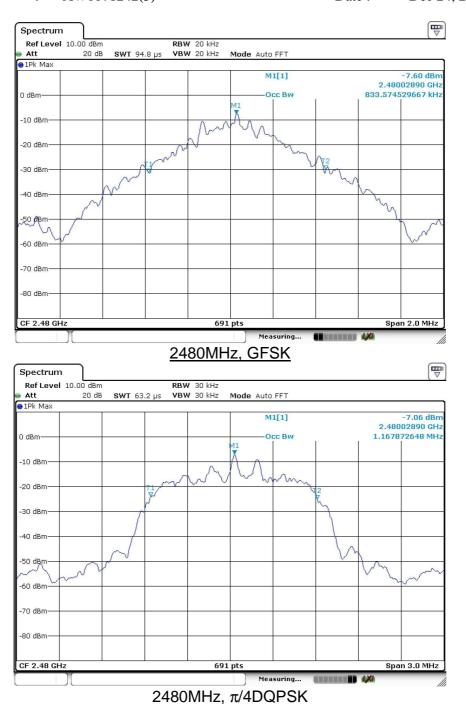
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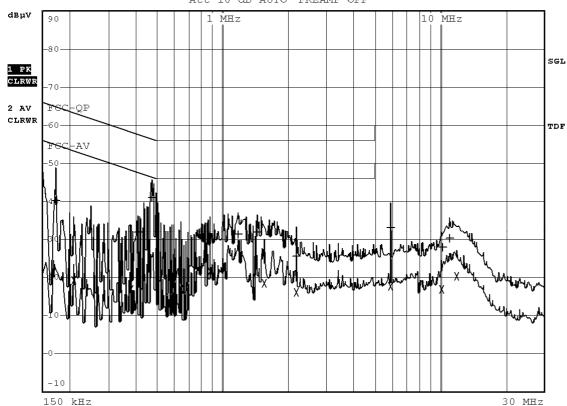
Conducted Emission

1) Bluetooth mode

(P)(S)

RBW 9 kHz MT 1 s

Att 10 dB AUTO PREAMP OFF



FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI



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TEST REPORT

Report No. : AW0071242(5) Date : Dec 24, 2018

EDIT PEAK LIST (Final Measurement Results)					
Tra	Tracel: FCC-QP				
Tra	ce2:	FCC-AV			
Tra	ce3:				
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1	Quasi Peak	172.5 kHz	40.14 N gnd	-24.69	
2	Average	208.5 kHz	19.19 L1 gnd	-34.07	
2	Average	379.5 kHz	16.90 L1 gnd	-31.38	
1	Quasi Peak	411 kHz	31.90 L1 gnd	-25.72	
1	Quasi Peak	478.5 kHz	40.91 L1 gnd	-15.44	
2	Average	639.5 kHz	16.93 L1 gnd	-29.06	
2	Average	873.5 kHz	21.72 L1 gnd	-24.27	
1	Quasi Peak	1.1795 MHz	31.29 L1 gnd	-24.70	
1	Quasi Peak	1.4495 MHz	31.81 L1 gnd	-24.18	
2	Average	1.553 MHz	18.40 L1 gnd	-27.59	
1	Quasi Peak	2.1875 MHz	25.52 L1 gnd	-30.47	
2	Average	2.1875 MHz	16.04 L1 gnd	-29.95	
1	Quasi Peak	5.9315 MHz	33.18 L1 gnd	-26.81	
2	Average	5.9315 MHz	17.80 L1 gnd	-32.19	
2	Average	10.193 MHz	16.96 L1 gnd	-33.03	
1	Quasi Peak	10.3505 MHz	27.81 L1 gnd	-32.18	
1	Quasi Peak	11.075 MHz	30.16 L1 gnd	-29.84	
2	Average	11.921 MHz	20.36 L1 gnd	-29.63	

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

FCC ID: 2ADFF-KSXDOCKQI IC: 23562-KSXDOCKQI

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