

### **FCC - TEST REPORT**

Report Number	:	68.950.19.2798	8.01	Date of Issue:	September 12, 2019
Model	<u>:</u>	HG04739A-US, HG04739B-US, HG04739C-US, HG04739D-US			
Product Type	:	BLUETOOTH I	HEADPHO	NES	
Applicant	:	Lidl US LLC.			_
Address	:	3500 S. Clark S	Street Arling	gton Virginia Unit	ed States 22202
	_			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
Factory	<u>:</u>	SHENZHEN SI	HIKE KAM	WAH ELECTRO	NIC CO., LTD.
Address	:	NO.36# , LANG	KOU INDUS	TRIAL PARK, LAN	IGKOU COMMUNITY,
		DALANG, LONG	HUA DISTR	RICT, SHENZHEN	GUANGDONG, CHINA
Test Result	:	■ Positive	□ Negativ	<b>re</b>	
Total pages including					
Appendices	:_	44			

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# 2 Details about the Test Laboratory

## **Details about the Test Laboratory**

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FCC Registration

514049

No.:



## 3 Description of the Equipment Under Test

Product name: BLUETOOTH HEADPHONES

Model no.: HG04739A-US, HG04739B-US, HG04739C-US, HG04739D-US

FCC ID: 2AJ9O-HG4739

Brand name: SILVER CREST

Options and accessories: USB cable and Aux in cable

Rating: DC 3.7V internal battery or DC 5V 500mA by USB cable.

**RF Transmission** 

Frequency:

2402MHz-2480MHz

No. of Operated Channel: 79

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

Antenna Type: Inverted F Antenna Specification

Antenna Gain: -0.68dBi

Description of the EUT: The Equipment Under Test (EUT) a wireless Bluetooth headphone.



# 4 Summary of Test Standards

Test Standards		
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES	
10-1-2018 Edition	Subpart C - Intentional Radiators	

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure, KDB558074 D01 v05r02 and ANSI C63.10-2013.



# 5 Summary of Test Results

Test Condition		Test Result
§15.207	Conducted emission AC power port	Pass
§15.247(b)(1)	Conducted peak output power	Pass
§15.247(e)	Power spectral density	N/A
§15.247(a)(2)	6dB bandwidth	N/A
§15.247(a)(1)	20dB bandwidth	Pass
§15.247(a)(1)	Min. of Hopping Channel Carrier Frequency Separation	Pass
§15.247(a)(1)(iii)	Min number of hopping frequencies	Pass
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	Pass
§15.247(d)	Spurious RF conducted emissions	Pass
§15.247(d)	Band edge	Pass
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter and receiver	Pass
§15.203	Antenna requirement	See Note 2

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a Inverted F Antenna Specification, which gain is -0.68dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.



## 6 General Remarks

#### Remarks

This submittal(s) (test report) is intended for FCC ID: 2AJ9O-HG4739, complies with Section 15.207,15.209, 15.247 of the FCC Part 15, Subpart C rules.

This report is only for Bluetooth BR EDR. The TX and RX range is 2402MHz-2480MHz.

### **SUMMARY:**

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: August 22, 2019

Testing Start Date: August 26, 2019

Testing End Date: September 10, 2019

Reviewed by: Prepared by: Tested by:

John Zhi

Johnshi

Section Manager

Moon Xiong

**Project Engineer** 

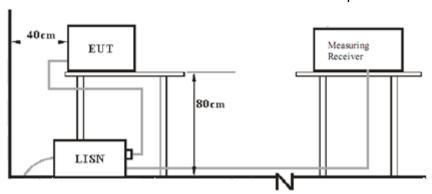
Louise Liu

Test Engineer

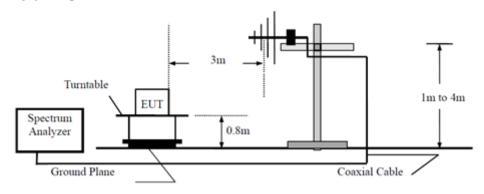


## 7 Test Setups

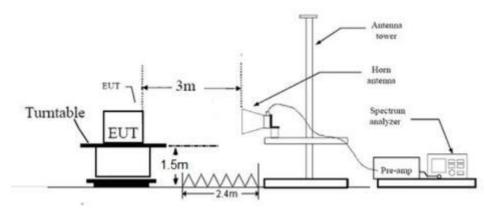
## 7.1 AC Power Line Conducted Emission test setups



## 7.2 Radiated test setups Below 1GHz



## Above 1GHz



# 7.3 Conducted RF test setups





## 8 Technical Requirement

## 8.1 Conducted Emission

#### **Test Method**

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

#### Limit

Frequency	QP Limit	AV Limit
 MHz	dΒμV	dΒμV
 0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

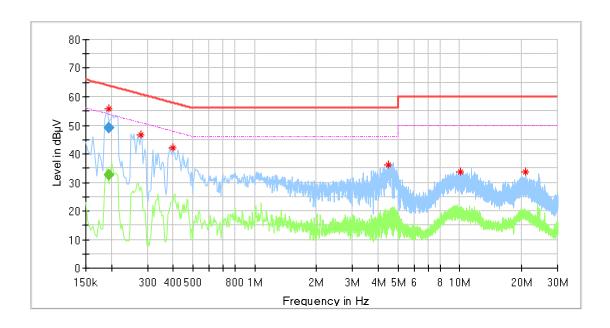
<sup>\*</sup>Decreasing linearly with logarithm of the frequency.



Model: HG04739A-US
Test mode: Transmitter
Test Voltage: AC120V/60Hz
Project No/Sample ID: 68.950.19.2798.01

Test By: Adam

Remark:



Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.193500	55.70		64.04	8.33	L1	10.2
0.278000	46.75		60.88	14.12	L1	10.2
0.398000	42.20		57.90	15.69	L1	10.3
4.486000	36.30		56.00	19.70	L1	10.4
10.054000	33.71	1	60.00	26.29	L1	10.6
20.982000	33.64		60.00	26.36	L1	11.0

## **Final Result**

Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)
0.193500		32.66	53.88	21.22	L1	10.2
0.193500	49.03		63.88	14.85	L1	10.2

Remark:

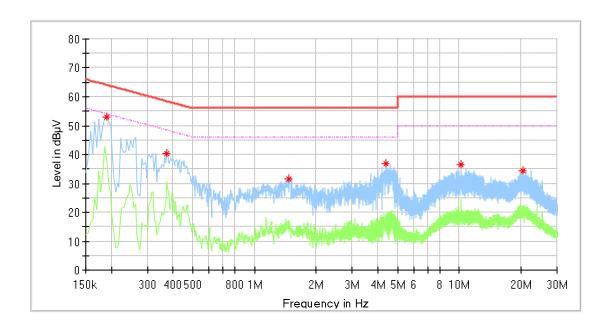
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)



Model: HG04739A-US
Test mode: Transmitter
Test Voltage: AC120V/60Hz
Project No/Sample ID: 68.950.19.2798.01

Test By: Adam

Remark:



**Critical\_Freqs** 

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.190000	52.87		64.04	11.17	N	10.2
0.374000	40.24		58.41	18.17	N	10.3
1.474000	31.43		56.00	24.57	N	10.3
4.386000	36.98	1	56.00	19.02	N	10.4
10.194000	36.34		60.00	23.66	N	10.7
20.466000	34.27	-	60.00	25.73	N	11.2

## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
I		I				

#### Remark:

Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)



## 8.2 Conducted peak output power

#### **Test Method**

- Use the following spectrum analyzer settings:
   Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured, VBW≥RBW,
   Sweep = auto, Detector function = peak, Trace = max hold
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

#### Limits

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30



## Conducted peak output power

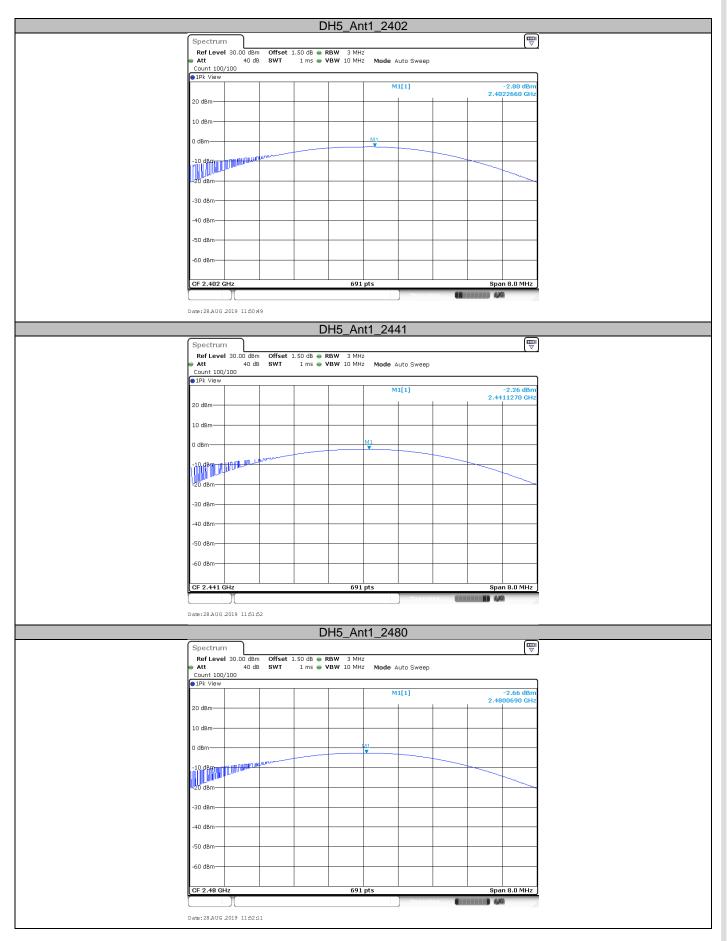
## Bluetooth Mode GFSK modulation Test Result

	Conducted Peak		
Frequency	Output Power	Result	
MHz	dBm		
Low channel 2402MHz	-2.80	Pass	
Middle channel 2441MHz	-2.26	Pass	
High channel 2480MHz	-2.66	Pass	

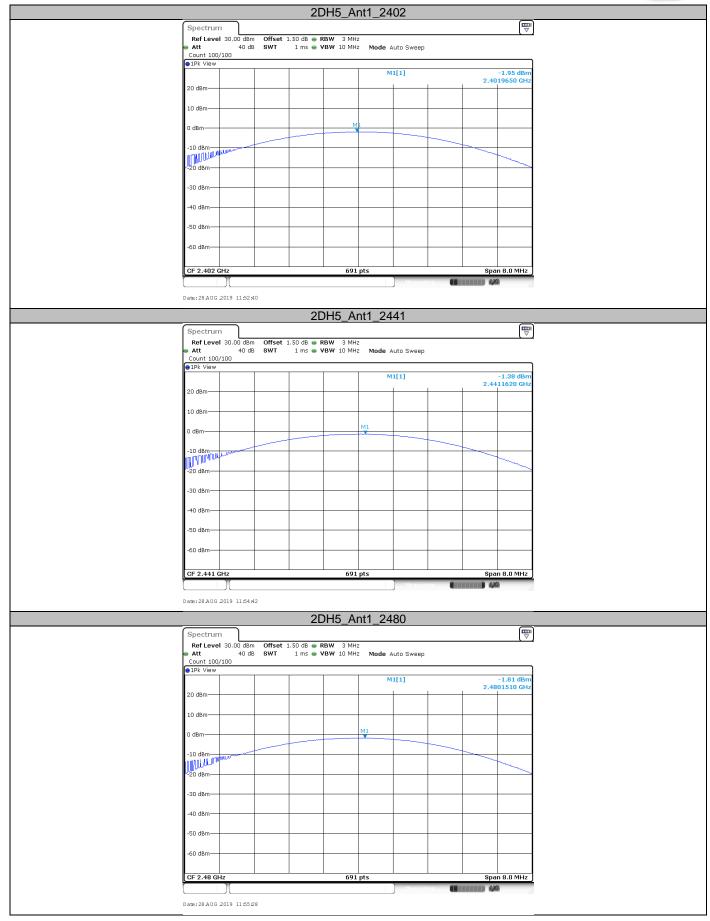
## Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-1.95	Pass
Middle channel 2441MHz	-1.38	Pass
High channel 2480MHz	-1.81	Pass











### 8.3 20 dB bandwidth

#### **Test Method**

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

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Limit [kHz]



### 20 dB bandwidth

Bluetooth Mode GFSK Modulation test result

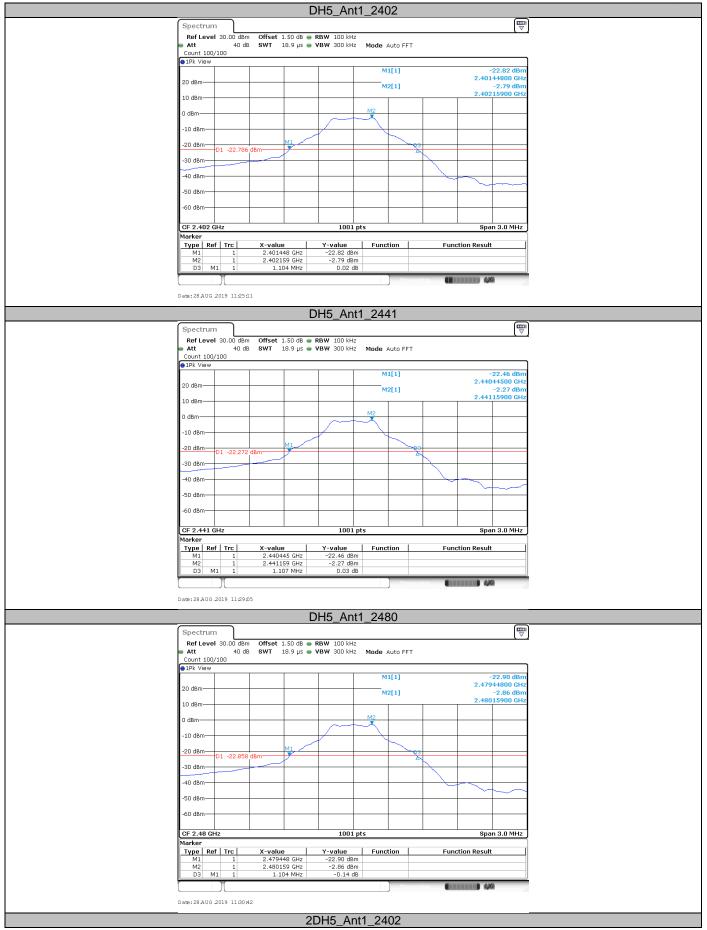
Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	1104		Pass
2441	1107		Pass
2480	1104		Pass

### 20 dB bandwidth

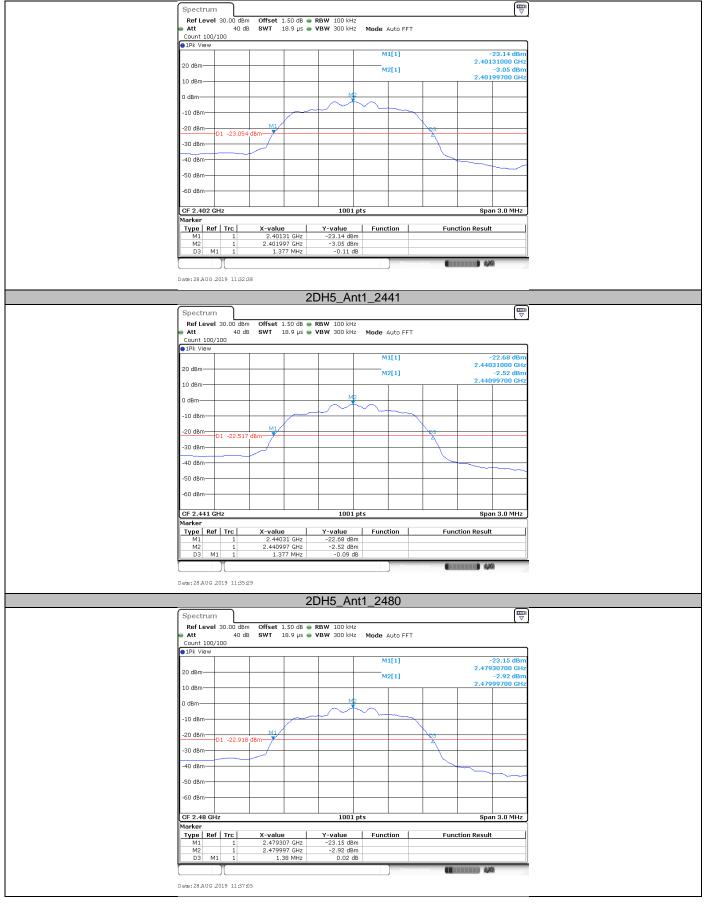
Bluetooth Mode π/4-DQPSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	1377		Pass
2441	1377		Pass
2480	1380		Pass









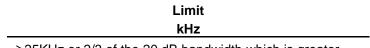


## 8.4 Carrier Frequency Separation

#### **Test Method**

- Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
- 2. By using the Max-Hold function record the separation of two adjacent channels.
- 3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
- 4. Repeat above procedures until all frequencies measured were complete.

#### Limit

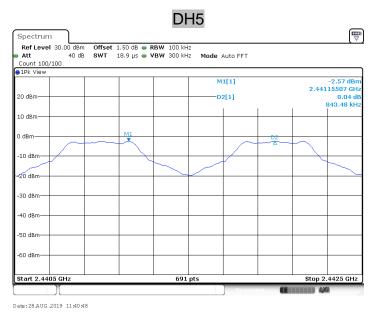


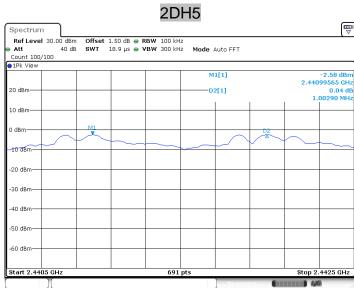
≥25KHz or 2/3 of the 20 dB bandwidth which is greater



## **Carrier Frequency Separation**

TestMode	Antenna	Channel	Result(MHz)	Limit(MHz)	Verdict
DH5	Ant1	Нор	0.843	>=0.750	PASS
2DH5	Ant1	Нор	1.003	>=0.946	PASS







## 8.5 Number of hopping frequencies

#### **Test Method**

- Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
- 2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
- 3. Record all the signals from each channel until each one has been recorded.
- 4. Repeat above procedures until all frequencies measured were complete.

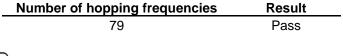
		m	
L	_		

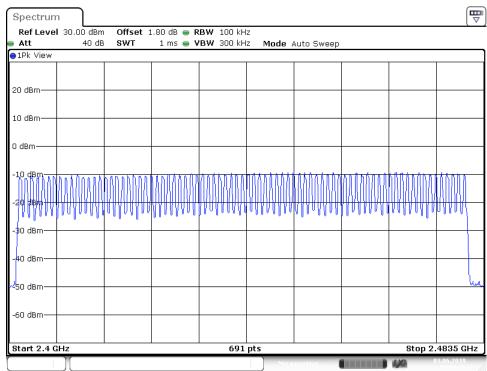
Limit
number
≥ 15



## **Number of hopping frequencies**

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.





Date: 3.JUN 2019 18:08:46



## 8.6 Dwell Time

#### **Test Method**

- Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
   Equipment mode:
- 2. Spectrum analyzer setting: RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
- 3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
- 4. Measure the Dwell Time by spectrum analyzer Marker function.
- 5. Repeat above procedures until all frequencies measured were complete.

#### Limit

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.



## **Dwell Time**

#### **Dwell time**

The maximum dwell time shall be 0.4 s.

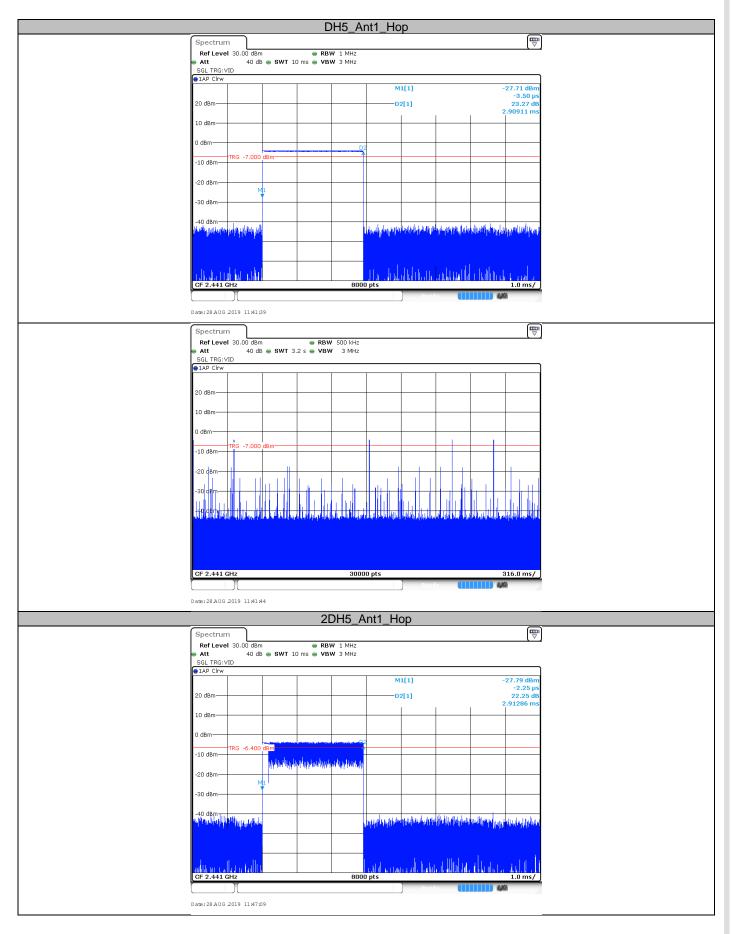
According to the Bluetooth Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width \* Total Hops. The detailed calculations are showed as follows: The burst width, which is directly measured, refers to the duration on one channel hop.

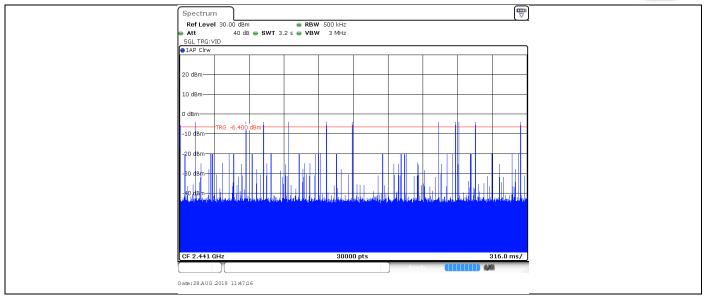
#### Test Result

Test Mode	Antenna	Channel	Burst Widths(ms)	Total Hops	Result(s)	Limit(s)	Verdict
DH5	Ant1	Нор	2.91	50	0.145	<=0.4	PASS
2DH5	Ant1	Нор	2.91	120	0.35	<=0.4	PASS











## 8.7 Conducted Spurious Emission

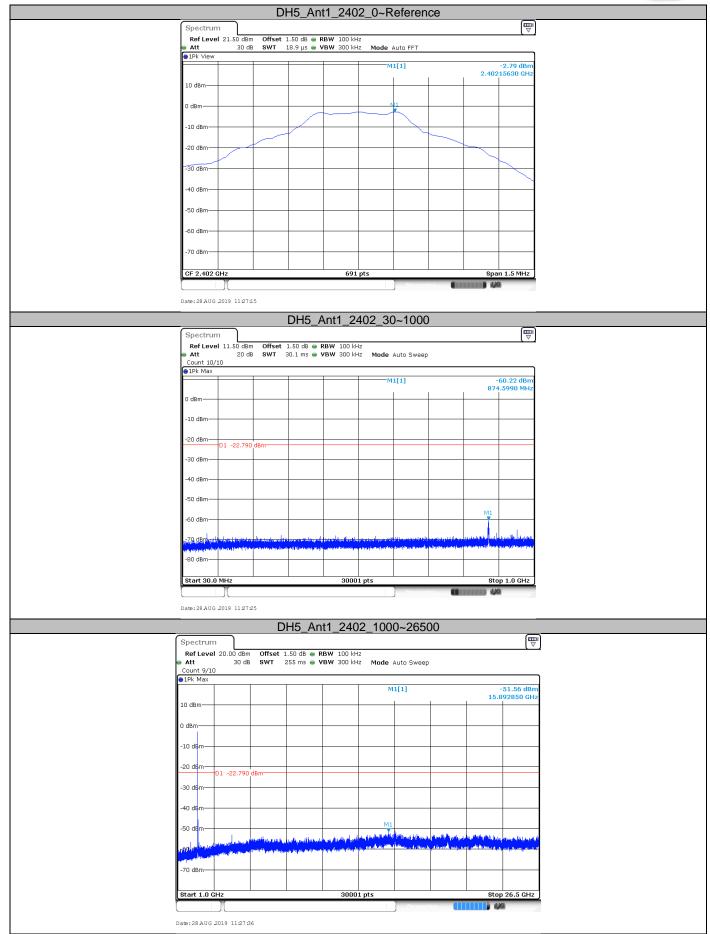
#### **Test Method**

- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10<sup>th</sup> harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 3. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 4. Repeat above procedures until all frequencies measured were complete.

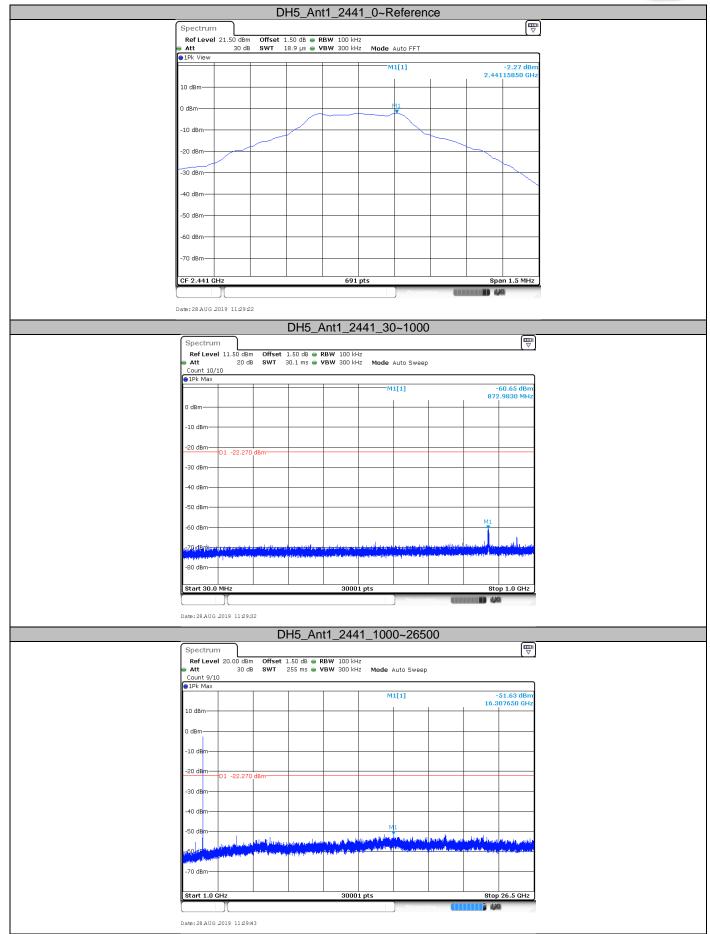
#### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

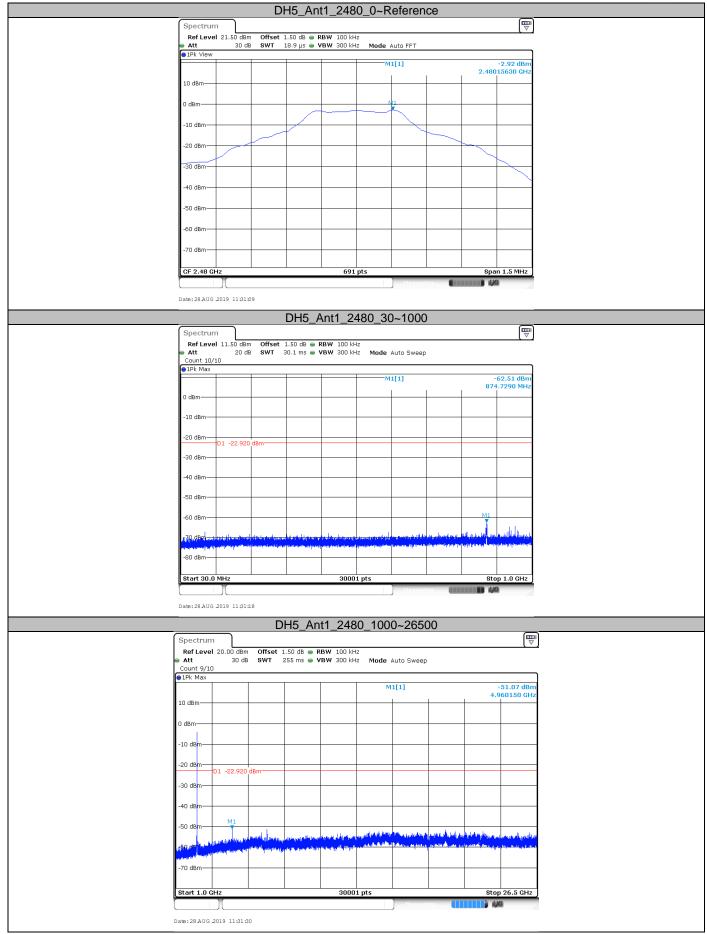




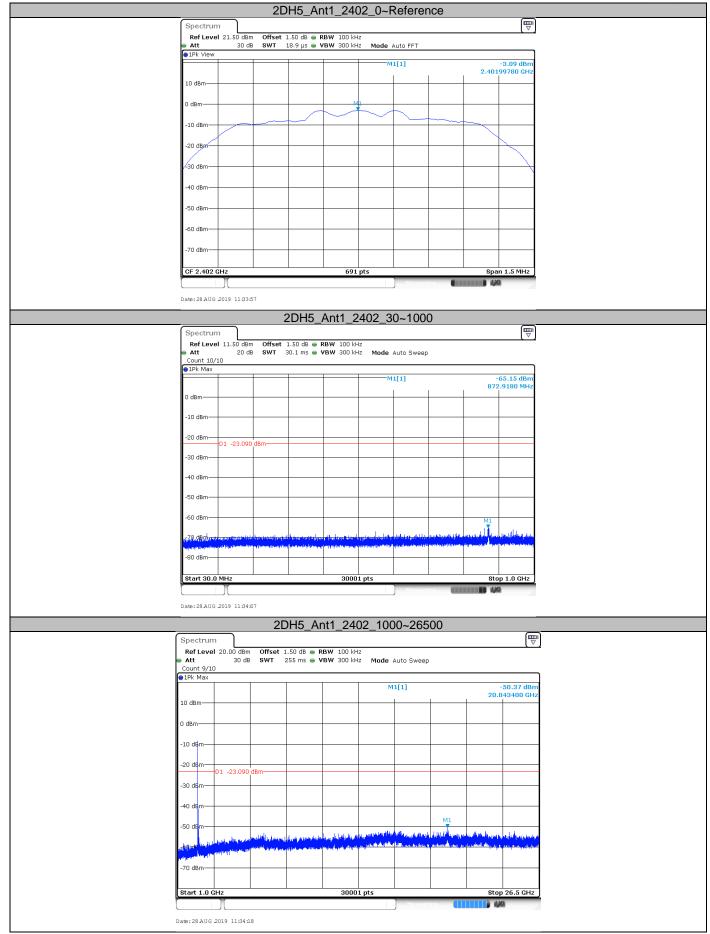




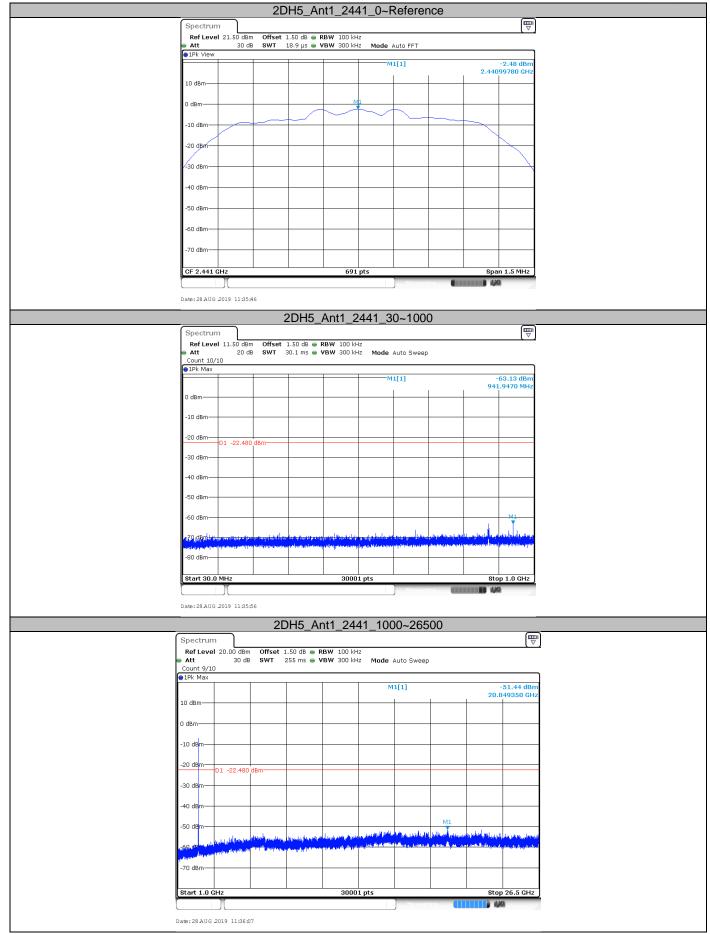




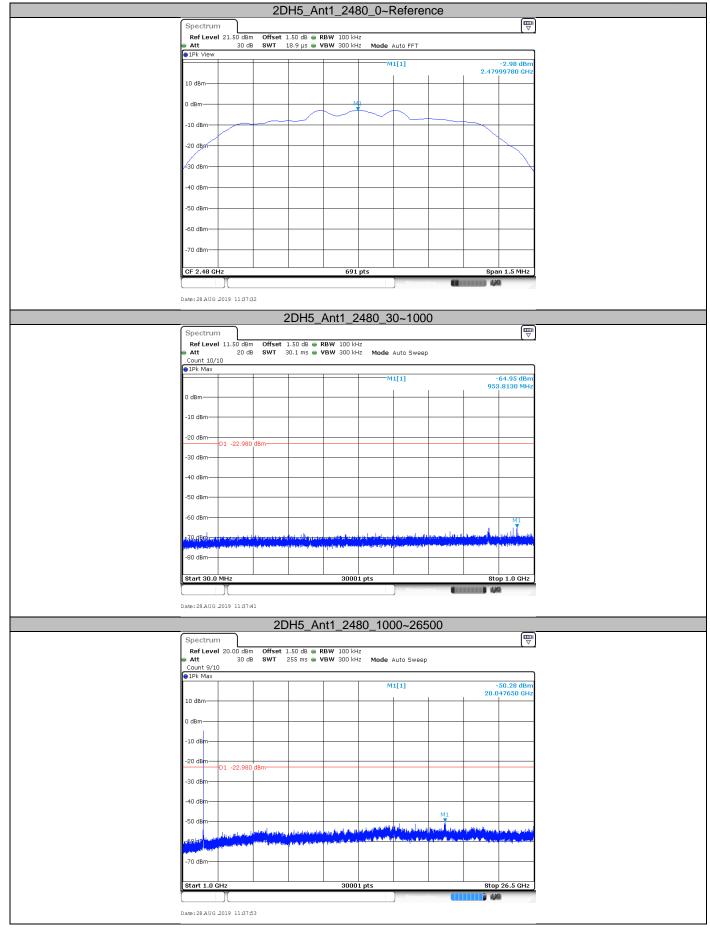














## 8.8 Band edge testing

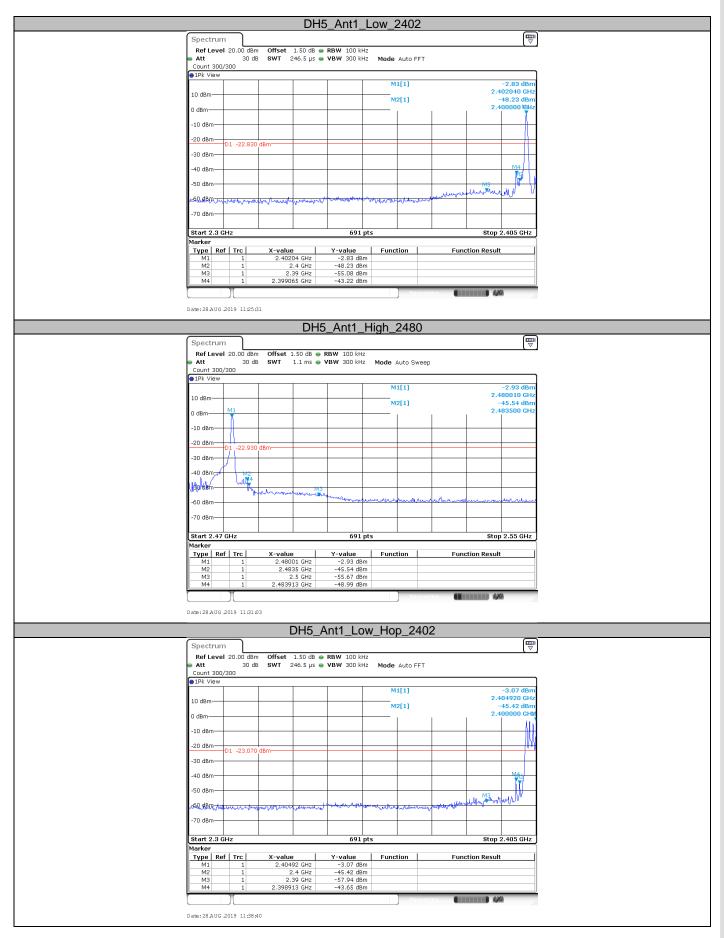
#### **Test Method**

- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

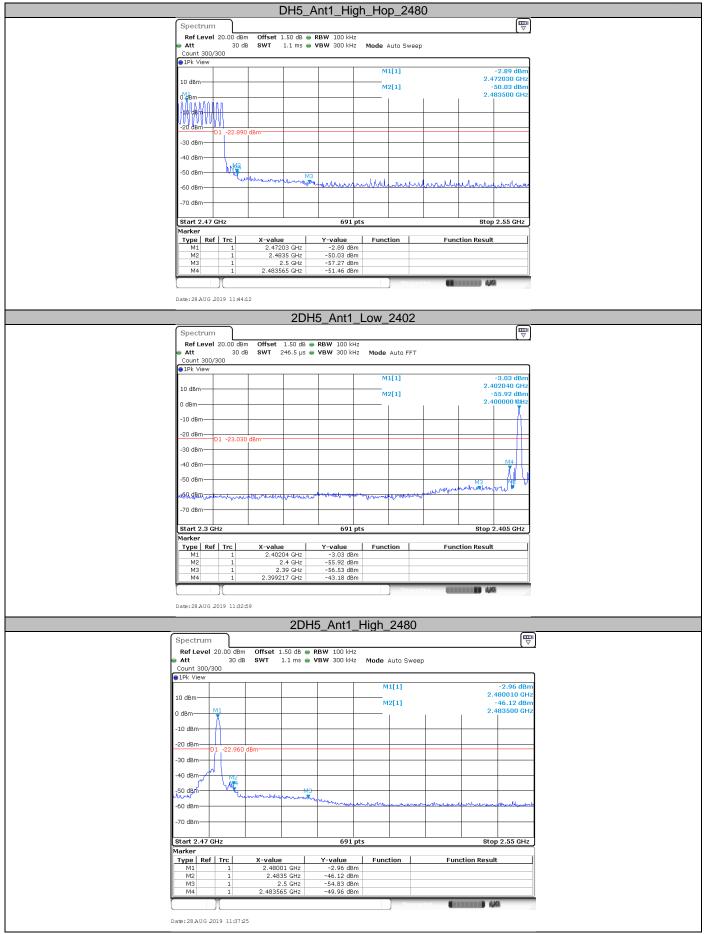
#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

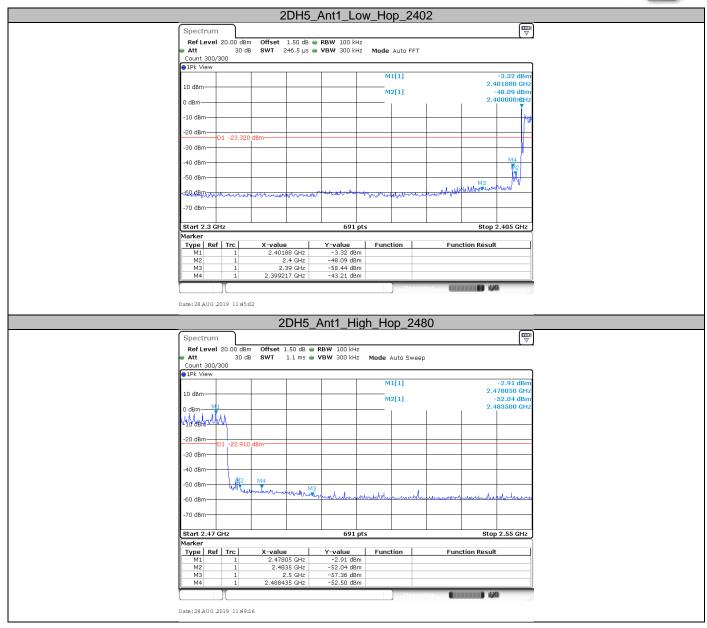














## 8.9 Spurious radiated emissions for transmitter

#### **Test Method**

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement ,Sweep = auto,

Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW=10Hz, Sweep = auto, Detector function = peak, Trace = max hold. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correct factor, derived from the appropriate the duty cycle calculation.

The setting method can refer to DA00-705.



#### Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



### Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP,  $\pi$ /4DQPSK mode) test result is listed in the report.

## Transmitting spurious emission test result as below:

π/4DQPSK Modulation 2402MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
Dallu	MHz	dBuV/m	dBuV/m		dBμV/m		dBuV/m	
30-	105.606111	18.83	-27.7	Н	43.50	QP	24.67	Pass
1000MHz	228.257222	23.25	-23.6	V	46.00	QP	22.75	Pass
	4803.750000	42.67	2.7	Н	74	PK	31.33	Pass
1000-	7200.000000	40.95	5.0	Н	54	AV	33.05	Pass
25000MHz	4800.937500	38.68	2.7	V	74	PK	35.32	Pass
	9593.437500	41.87	8.6	V	54	AV	32.13	Pass

#### π/4DQPSK Modulation 2441MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
Dallu	MHz	dBuV/m	dBuV/m		dBμV/m		dBuV/m	
30-		-	-	Н	40	QP		Pass
1000MHz				V	40	QP		Pass
	4882.031250	43.88	2.9	Н	74	PK	30.12	Pass
1000-	9451.406250	40.51	8.9	Н	54	AV	33.49	Pass
25000MHz	4882.031250	45.99	2.9	V	74	PK	28.01	Pass
	7300.312500	36.50	5.1	V	54	AV	37.50	Pass



#### π/4DQPSK Modulation 2480MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
Ballu	MHz	dBuV/m	dBuV/m		dBµV/m		dBuV/m	
30-				Н	40	QP		Pass
1000MHz				V	40	QP		Pass
	4960.312500	45.57	3.3	Н	74	PK	28.43	Pass
1000-	7204.218750	36.10	5.0	Н	54	AV	37.90	Pass
25000MHz	4959.843750	42.86	3.3	V	74	PK	31.14	Pass
	7230.937500	36.01	4.9	V	54	AV	37.99	Pass

#### Remark:

- (1) "\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Corrected Amplitude= Read level + Corrector factor
  Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Pre-amplifier
  Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
  (The Reading Level is recorded by software which is not shown in the sheet)



# 9 Test Equipment List

## **List of Test Instruments**

#### Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	2020-6-28
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	2020-6-22
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	2020-7-7
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	2020-6-28
Signal Generator	Rohde & Schwarz	SMY01	68-4-48-16-001	839369/005	2020-6-28
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	68-4-90-14-001		2020-7-7
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001- A10	Version9.15.00	N/A

TS8997 Test System

-	soor rock dystem				
	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
	Signal Analyzer	Rohde & Schwarz	FSV40	101030	2020-6-28
	RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2020-6-28
	Test software	Rohde & Schwarz	EMC32	Version 10.38.00	N/A
	Test software	Tonscend	System for BT/WIFI	Version 2.6	N/A



# 10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;			
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;			
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 <sup>-7</sup> or 1%			