

# FCC Test Report

**Report No.:** RWA0202400037B

**Applicant:** SDI Technologies Inc.

**Address:** 1299 Main St., Rahway, New Jersey, 07065, United States

**Product Name:** Bluetooth Earbuds

**Product Model:** Vi-B18SM.EXV24

**Multiple Models:** XI-B18MX.EXV24, KI-B18SO.EXV24, MI-B18BE.EXV24,  
PI-B18PK.EXV24, RI-B18HP.EXV24, TI-B18MO.EXV24,  
VI-B18DL.EXV24

**Trade Mark:** N/A

**FCC ID:** EMOB18B

**Standards:** FCC CFR Title 47 Part 15C (§15.247)

**Test Date:** 2024-01-16 to 2024-01-18

**Test Result:** Complied

**Report Date:** 2024-01-25

**Reviewed by:**

**Approved by:**

*Frank Yin*

*Jacob Kong*

Frank Yin  
Project Engineer

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**Prepared by:**

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## Revision History

Version No.	Issued Date	Description
00	2024-01-25	Original

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# 1 General Information

## 1.1 Client Information

Applicant:	SDI Technologies Inc.
Address:	1299 Main St., Rahway, New Jersey, 07065, United States
Manufacturer:	KIDdesigns Inc.
Address:	1299, Main Street, Rahway, NJ 07065, U.S.A.

## 1.2 Product Description of EUT

The EUT is Bluetooth Earbuds that contains BT(BDR) radio, this report covers the full testing of the BT(BDR) radio.

Sample Serial Number	2R-1 for RE test, 2R-2 for RF test conducted test(assigned by WATC)
Sample Received Date	2024-01-12
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz(BDR)
Maximum Conducted Peak Output Power	-3.06dBm
Modulation Technology	GFSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain <sup>#</sup>	2.78dBi
Power Supply	DC 3.7V from battery
Adapter Information	N/A
Modification	Sample No Modification by the test lab

### 1.3 Antenna information

<b>15.203 requirement:</b>  An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>Device Antenna information:</b>	
The BT antenna is an internal antenna which cannot replace by end-user, please see product internal photos for details.	

### 1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: EMOB18A
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### 1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
<b>Note:</b> The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.		

## 1.6 Laboratory Location

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: [qa@watc.com.cn](mailto:qa@watc.com.cn)

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

## 1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

## 2 Description of Measurement

### 2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	76	2478
1	2403	40	2442	77	2479
...	...	...	...	78	2480
38	2440	...	...	/	/
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	78	2480

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software <sup>#</sup> :		FCC_assist_1.0.2.2		
Mode	Data rate	Powel Level Setting <sup>#</sup>		
		Low Channel	Middle Channel	High Channel
GFSK	1Mbps	10	10	10
The exercise software and the maximum power setting that provided by manufacturer.				

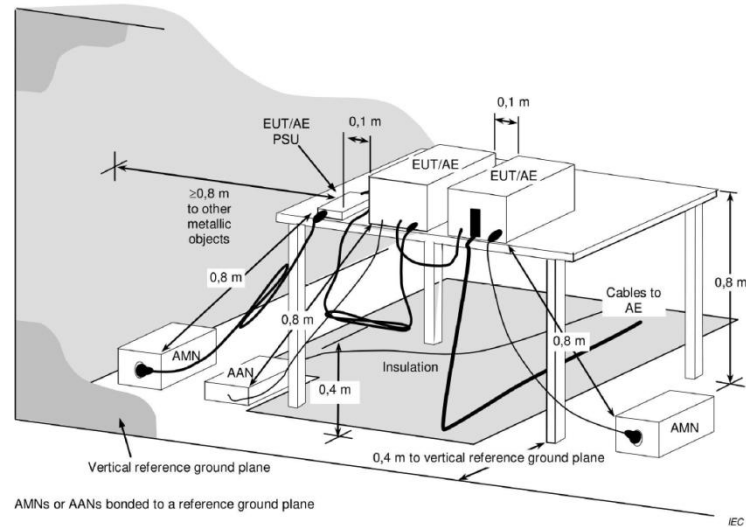
Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

### 2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Huawei Technologies Co., Ltd	Quick Charge	HW-059200CHQ	K68249H7L05890

## 2.3 Test Setup

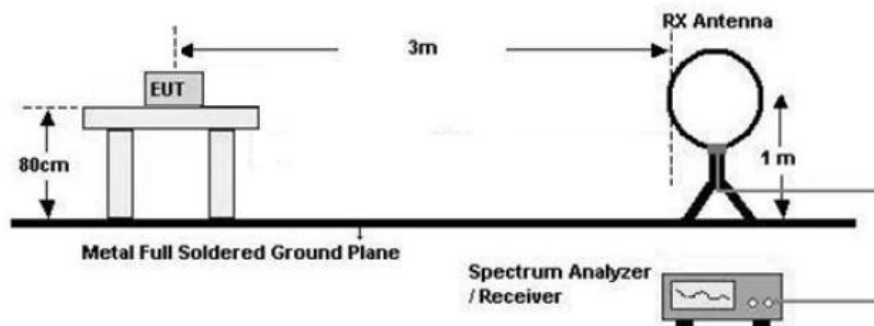
**1) Conducted emission measurement:**



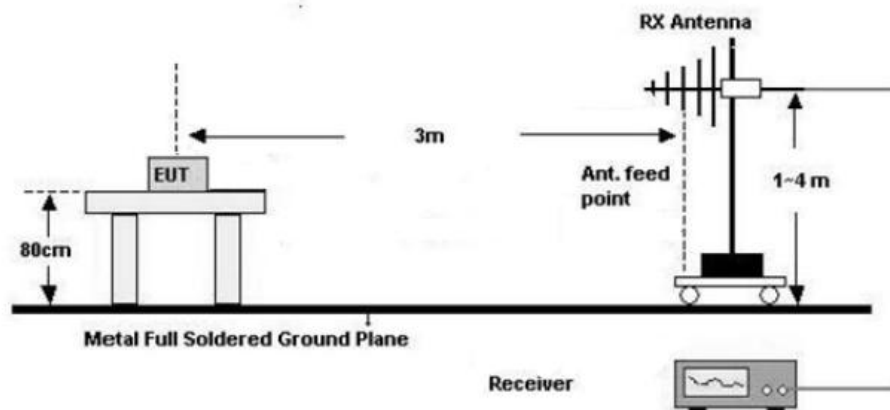
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

**2) Radiated emission measurement:**

Below 30MHz (3m SAC)

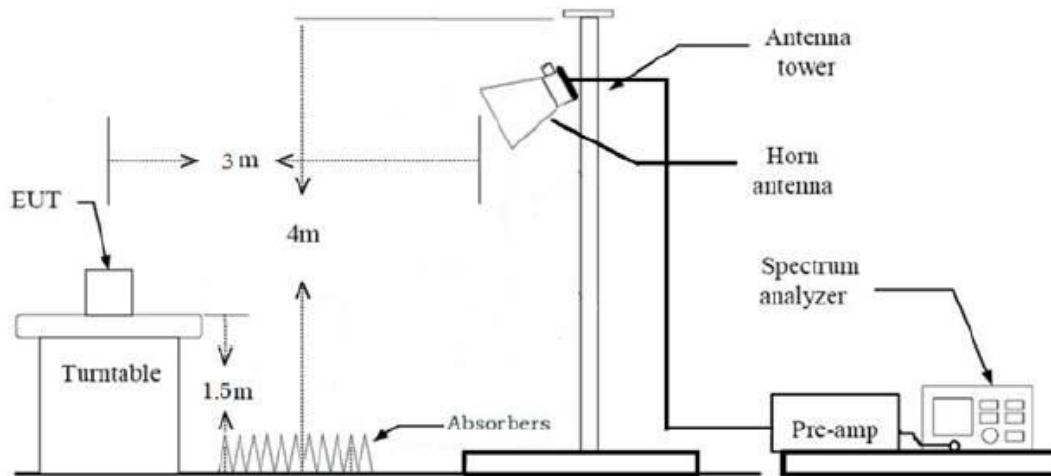


30MHz-1GHz (3m SAC)

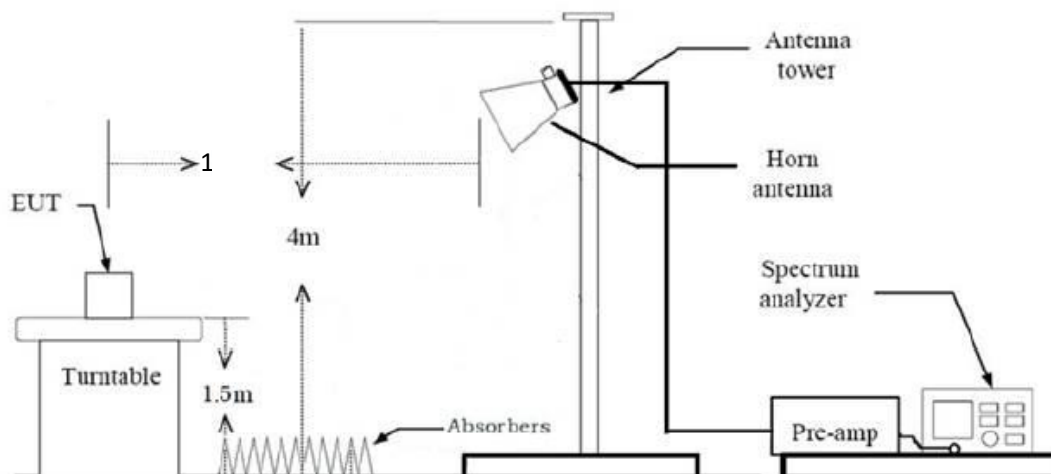




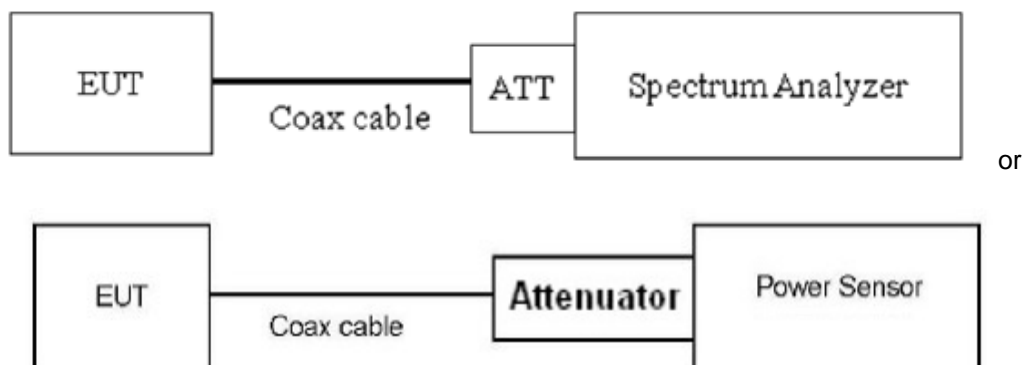
### 1GHz-18GHz(3m FAC)



### Above 18GHz (3m FAC)



### 3) RF Conducted Test



## 2.4 Test Procedure

### Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

### Radiated Emission Procedure:

#### a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were  $40 \cdot \log(\text{test distance} / \text{specification distance})$ .
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, ground-parallel)

#### b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

#### c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

### RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or

Spectrum analyzer) through Attenuator and RF cable.

2. The cable assembly insertion loss of 6.5dB (including 6.0 dB Attenuator and 0.5dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 0.5dB was assumed as worst case. This was later verified to be true by laboratory. ( if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

## 2.5 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 7.8.5
20 dB Emission Bandwidth	ANSI C63.10-2020 Section 6.9.2
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
Channel separation	ANSI C63.10-2020 Section 7.8.2
Number of hopping Frequency	ANSI C63.10-2020 Section 7.8.3
Time of occupancy (dwell time)	ANSI C63.10-2020 Section 7.8.4
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 7.8.7.2&6.10
Radiated emission	ANSI C63.10-2020 Section 7.8&6.3&6.4&6.5&6.6

## 2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2023/7/3	2024/7/2
R&S	LISN	ENV216	101748	2023/8/1	2024/7/31
N/A	Coaxial Cable	NO.12	N/A	2023/7/3	2024/7/2
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2
SONOMA	Low frequency	310	186014	2023/7/12	2024/7/11

INSTRUMENT	amplifier				
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
ETS	Passive Loop Antenna	6512	29604	2023/7/7	2024/7/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2023/7/12	2024/7/11
narda	6dB attenuator	603-06-1	N/A	2023/7/26	2024/7/25

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

### 3 Test Results

#### 3.1 Test Summary

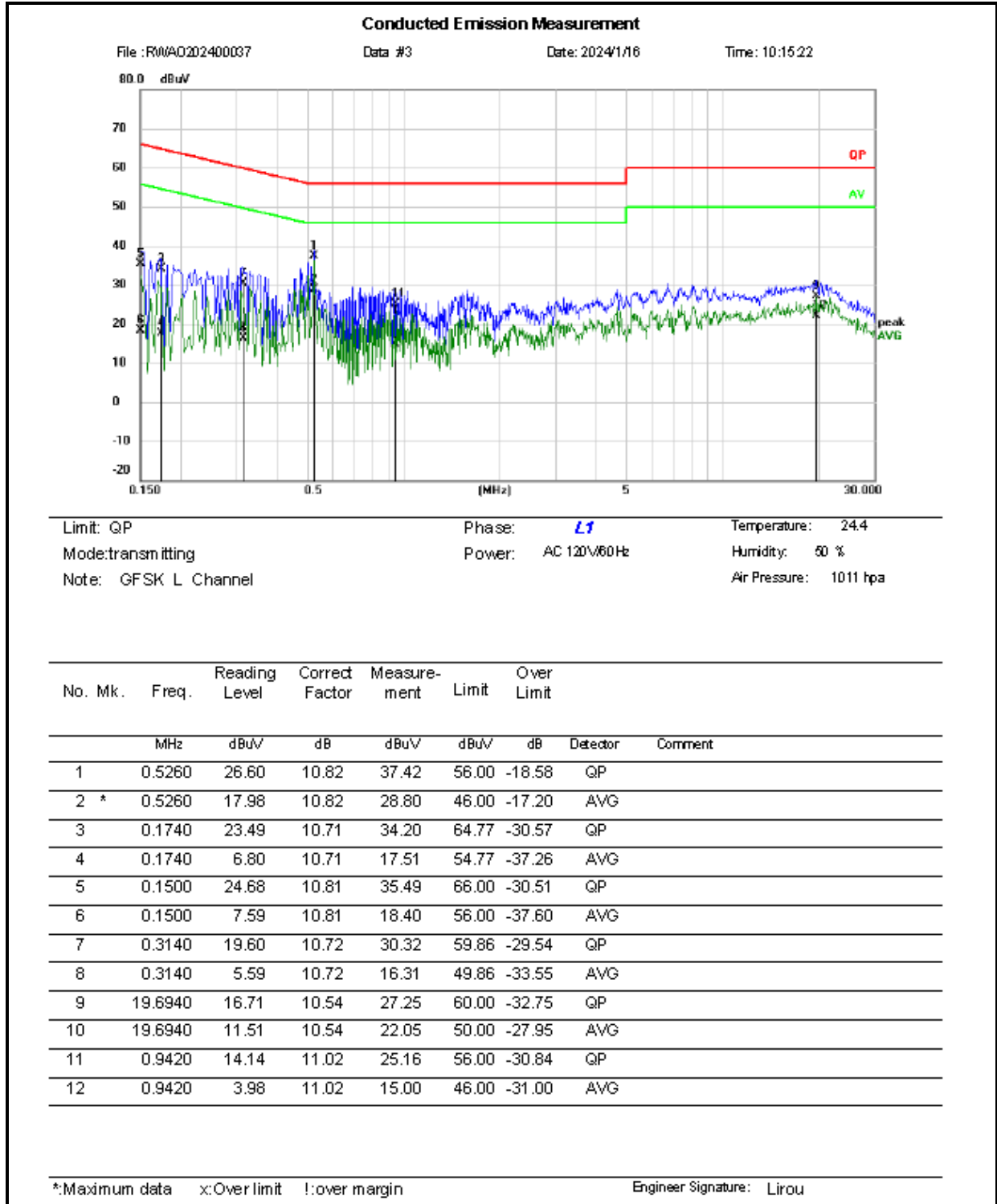
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247 (a)(1)	20dB Emission Bandwidth	Report only
-	99% Occupied Bandwidth	Report only
§15.247 (a)(1)	Channel separation	Compliance
§15.247 (a)(1)(iii)	Number of hopping Frequency	Compliance
§15.247 (a)(1)(iii)	Time of occupancy (dwell time)	Compliance
§15.247(b)(1)	Maximum Conducted Output Power	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance

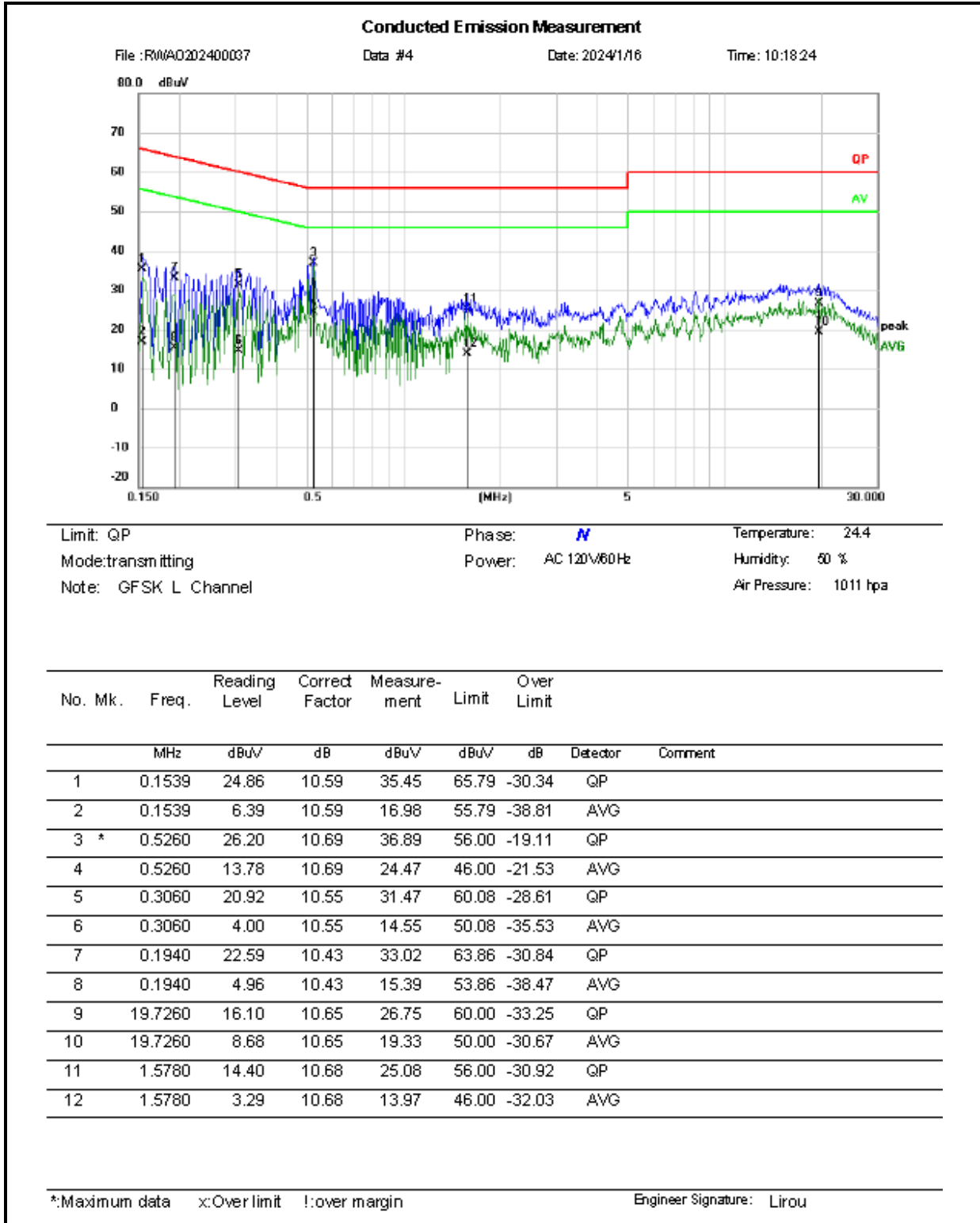
### 3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
Channel separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Number of hopping Frequency	Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.
Time of occupancy (dwell time)	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 3.3 AC Line Conducted Emissions Test Data

<b>Test Date:</b>	2024-01-16	<b>Test By:</b>	Lirou Li
<b>Environment condition:</b>	Temperature: 24.4°C; Relative Humidity:50%; ATM Pressure: 101.1kPa		





**Remark:**

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement – Limit



### 3.4 Radiated emission Test Data

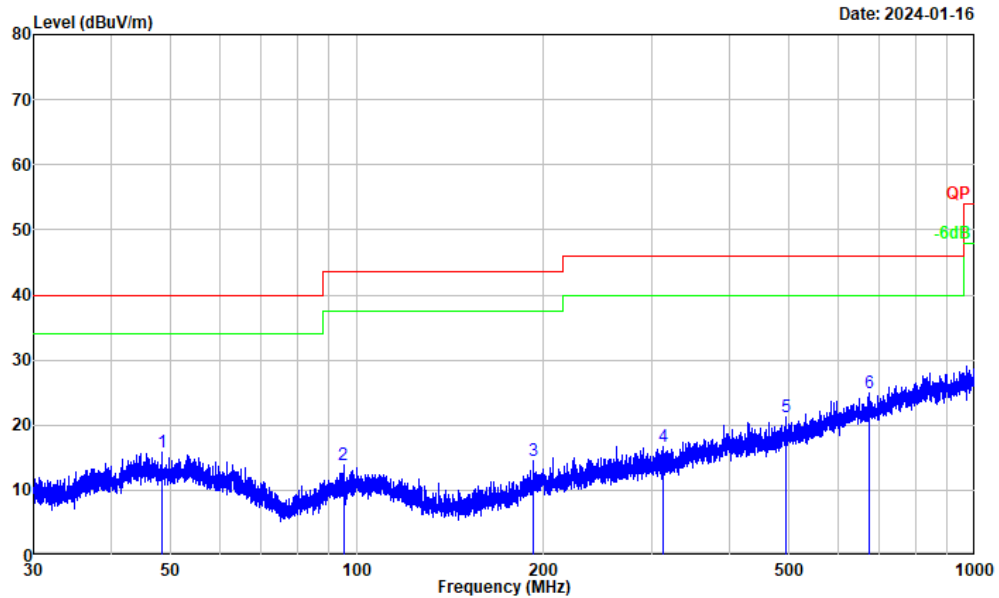
9 kHz-30MHz:

Test Date:	2024-01-16	Test By:	Bard Huang
Environment condition:	Temperature: 24.9°C; Relative Humidity:49%; ATM Pressure: 101.6kPa		

For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

**30MHz-1GHz:**

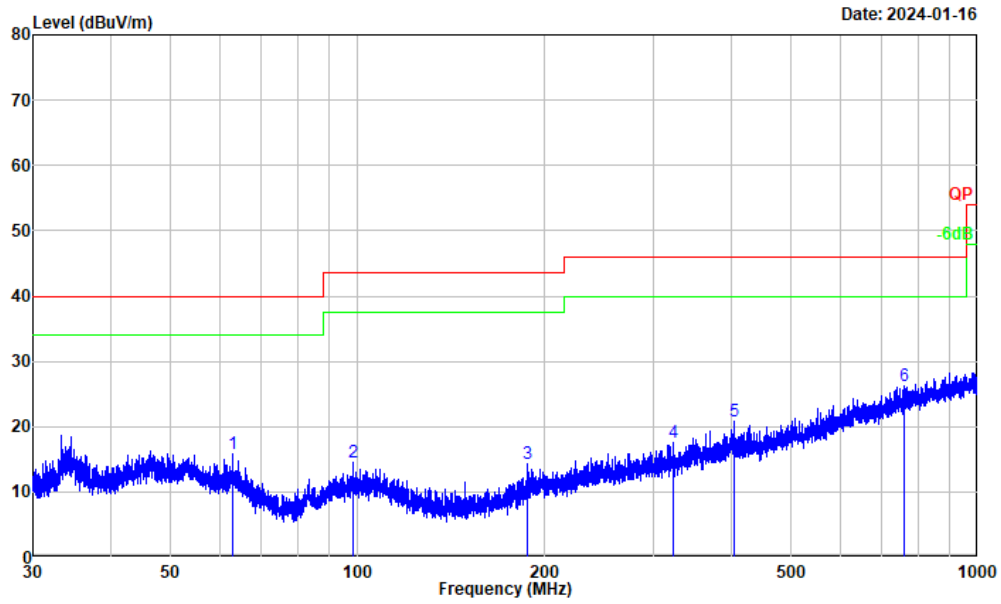
<b>Test Date:</b>	2024-01-16	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 24.9°C; Relative Humidity:49%; ATM Pressure: 101.6kPa		



Project No. : RWA0202400037  
 Test Mode : Transmitting  
 Test Voltage : Power by battery  
 Environment : 24.9°C/49%R.H./101.6kPa  
 Tested by : Bard Huang  
 Polarization : horizontal  
 Remark : DHS low channel

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
<hr/>							
1	48.332	27.89	-12.17	15.72	40.00	-24.28	Peak
2	95.135	28.58	-14.78	13.80	43.50	-29.70	Peak
3	192.672	28.93	-14.37	14.56	43.50	-28.94	Peak
4	312.453	27.76	-11.03	16.73	46.00	-29.27	Peak
5	495.066	28.54	-7.29	21.25	46.00	-24.75	Peak
6	672.845	29.04	-4.02	25.02	46.00	-20.98	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain



Project No. : RWA0202400037  
Test Mode : Transmitting  
Test Voltage : Power by battery  
Environment : 24.9°C/49%R.H./101.6kPa  
Tested by : Bard Huang  
Polarization : vertical  
Remark : DH5 low channel

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	62.843	29.85	-14.02	15.83	40.00	-24.17	Peak
2	98.530	28.90	-14.44	14.46	43.50	-29.04	Peak
3	188.083	29.26	-14.85	14.41	43.50	-29.09	Peak
4	322.896	28.18	-10.71	17.47	46.00	-28.53	Peak
5	403.958	29.41	-8.50	20.91	46.00	-25.09	Peak
6	759.704	28.56	-2.33	26.23	46.00	-19.77	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

**Remark:**

*Result = Reading + Factor*

*Factor = Antenna factor + Cable loss – Amplifier gain*

*Over Limit = Result– Limit*

**Above 1GHz:**

<b>Test Date:</b>	2024-01-17	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 23.4°C; Relative Humidity:51%; ATM Pressure: 101.4kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
DH5							
Low Channel							
2389.982	38.33	horizontal	8.25	46.58	54.00	-7.42	Average
2389.982	50.96	horizontal	8.25	59.21	74.00	-14.79	Peak
2389.982	37.51	vertical	8.25	45.76	54.00	-8.24	Average
2389.982	49.80	vertical	8.25	58.05	74.00	-15.95	Peak
4804.000	48.78	horizontal	0.21	48.99	74.00	-25.01	Peak
4804.000	48.89	vertical	0.21	49.10	74.00	-24.90	Peak
Middle Channel							
4882.000	51.40	horizontal	0.45	51.85	54.00	-2.15	Average
4882.000	55.50	horizontal	0.45	55.95	74.00	-18.05	Peak
4882.000	52.30	vertical	0.45	52.75	54.00	-1.25	Average
4882.000	54.11	vertical	0.45	54.56	74.00	-19.44	Peak
High Channel							
2483.604	37.84	horizontal	8.25	46.09	54.00	-7.91	Average
2483.604	51.19	horizontal	8.25	59.44	74.00	-14.56	Peak
2483.504	37.54	vertical	8.25	45.79	54.00	-8.21	Average
2483.504	49.50	vertical	8.25	57.75	74.00	-16.25	Peak
4960.000	51.23	horizontal	0.93	52.16	54.00	-1.84	Average
4960.000	54.31	horizontal	0.93	55.24	74.00	-18.76	Peak
4960.000	52.37	vertical	0.93	53.30	74.00	-20.70	Peak

*Remark:*

*Corrected Amplitude= Reading level + corrected Factor*

*Corrected Factor = Antenna factor + Cable loss – Amplifier gain*

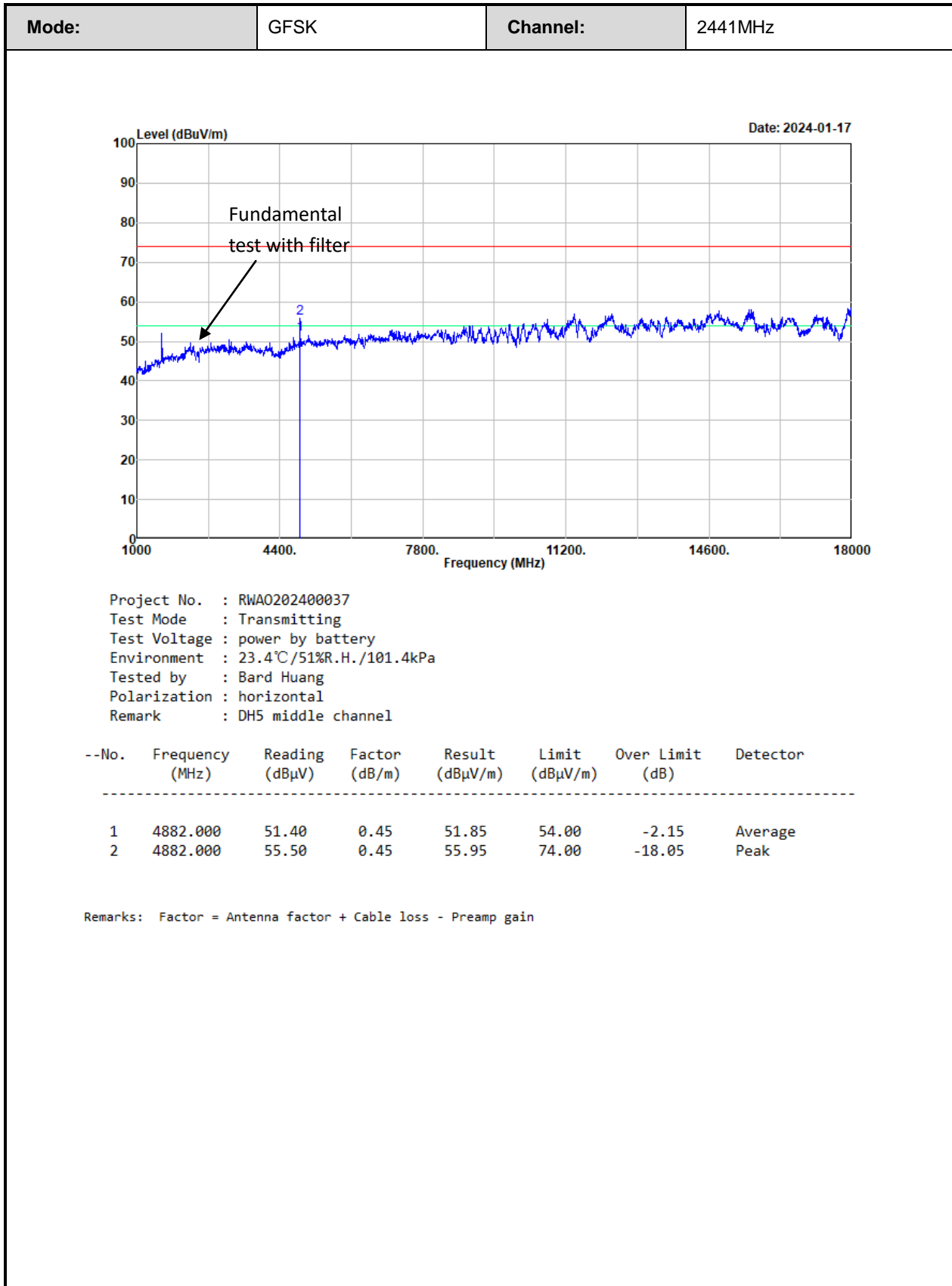
*Margin = Corrected Amplitude – Limit*

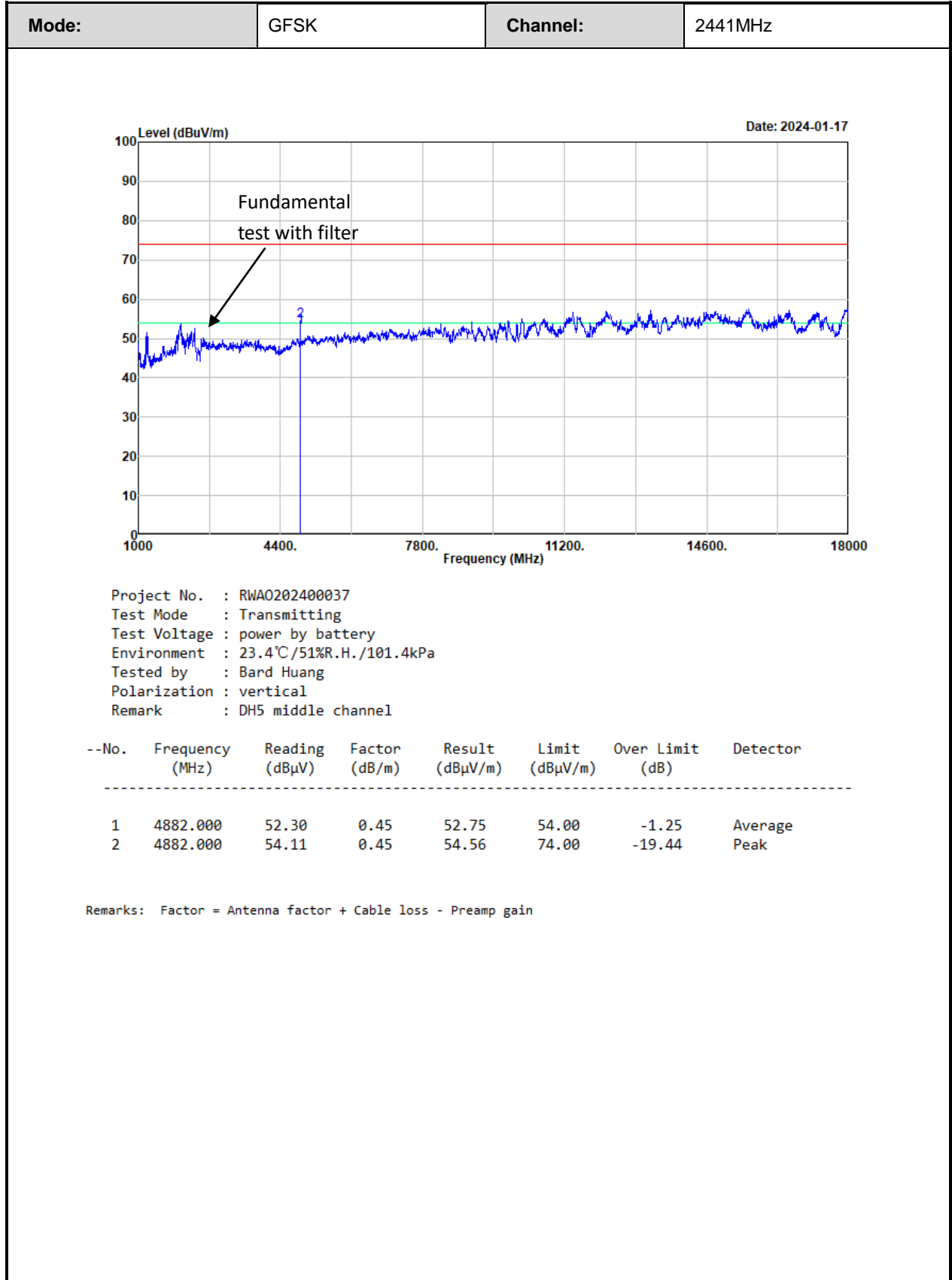
*For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.*

*The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.*

*For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.*

Test plot for example as below:





### 3.5 RF Conducted Test Data

Test Date:	2024-01-18	Test By:	Baylor Li
Environment condition:	Temperature: 26°C; Relative Humidity:58%; ATM Pressure: 100.7kPa		

#### 3.5.1 20 dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Channel	20dB BW [MHz]	99% OBW[MHz]
GFSK	2402	0.996	0.904
	2441	0.984	0.904
	2480	0.944	0.888

#### 3.5.2 Maximum Conducted Peak Output Power

Test Mode	Channel[MHz]	Result[dBm]	Limit[dBm]	Verdict
GFSK	2402	-3.06	21	Pass
	2441	-4.33	21	Pass
	2480	-5.76	21	Pass

#### 3.5.3 Channel separation

Test Mode	Channel[MHz]	Result[MHz]	Limit[MHz]	Verdict
GFSK	2402	1.002	0.664	Pass
	2441	1.002	0.656	Pass
	2480	1.002	0.629	Pass

Note:  $\text{Limit} \leq 2/3 * 20\text{dB BW}$

#### 3.5.4 Number of hopping Frequency

Test Mode	Frequency Range [MHz]	Number of hopping Frequency	Limit	Verdict
GFSK	2400-2483.5	79	$\geq 15$	Pass

### 3.5.5 Time of occupancy (dwell time)

Test Mode	Packet Type	Channel[MHz]	Pulse Time [ms]	Result[s]	Limit[s]	Verdict
GFSK	DH1	2402	0.398	0.127	0.4	Pass
	DH3	2441	1.673	0.268	0.4	Pass
	DH5	2480	2.935	0.313	0.4	Pass

Note:

DH1: Dwell time=Pulse time (ms)  $\times (1600/2/79) \times 31.6s$

DH3: Dwell time=Pulse time (ms)  $\times (1600/4/79) \times 31.6s$

DH5: Dwell time=Pulse time (ms)  $\times (1600/6/79) \times 31.6s$

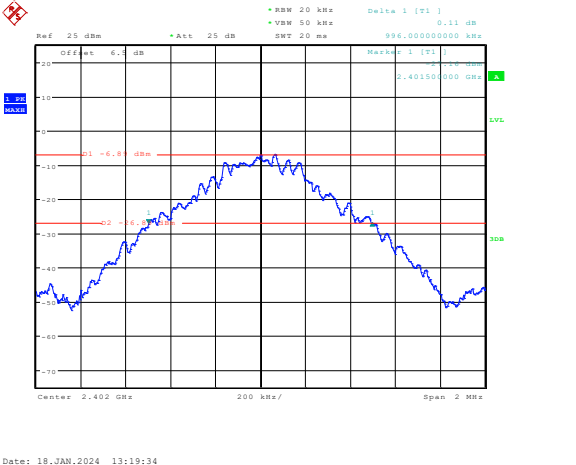
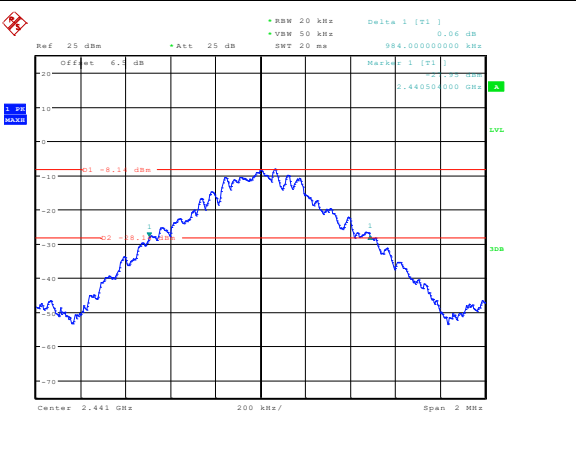
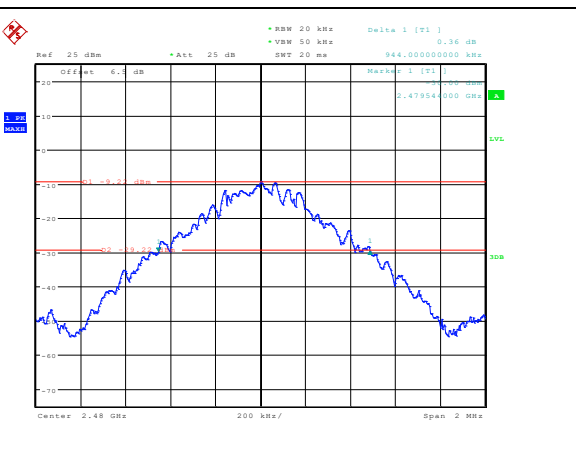
### 3.5.6 100 kHz Bandwidth of Frequency Band Edge

Test Mode	Channel	Result	Limit	Verdict
GFSK	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass

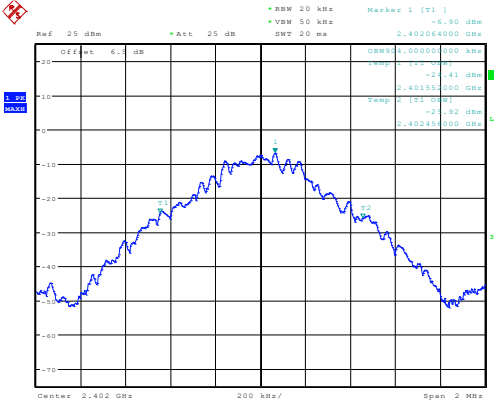
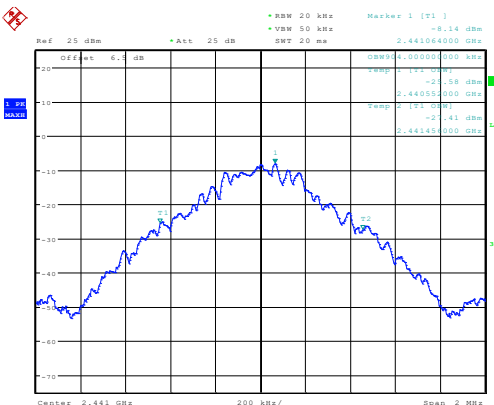
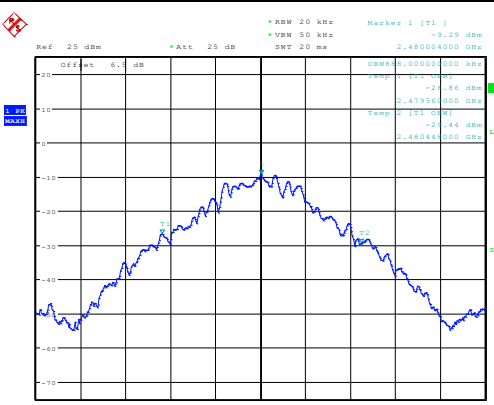


## Test Plots:

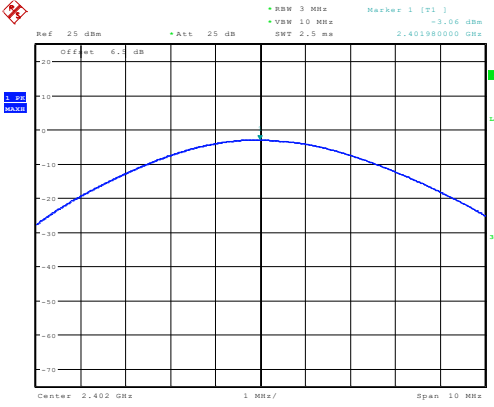
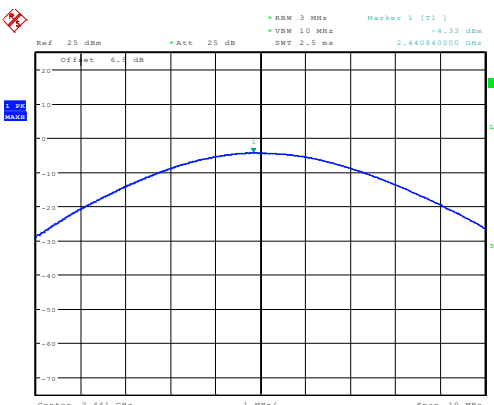
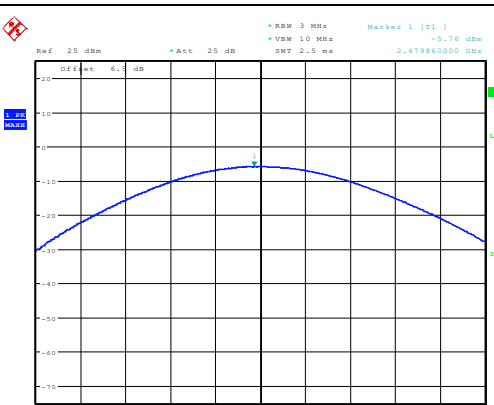
### 20 dB Emission Bandwidth:

GFSK	/
Lowest channel	/
 <p>Date: 18.JAN.2024 13:19:34</p>	
Middle channel	/
 <p>Date: 18.JAN.2024 13:19:57</p>	
High channel	/
 <p>Date: 18.JAN.2024 13:20:15</p>	

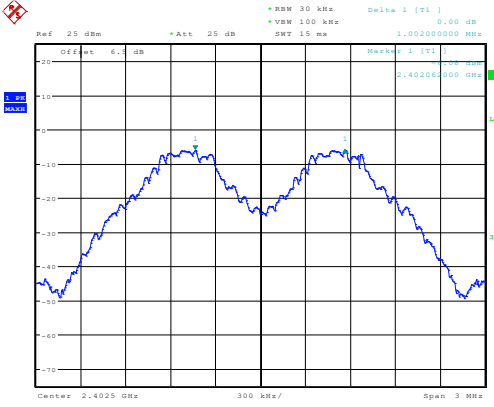
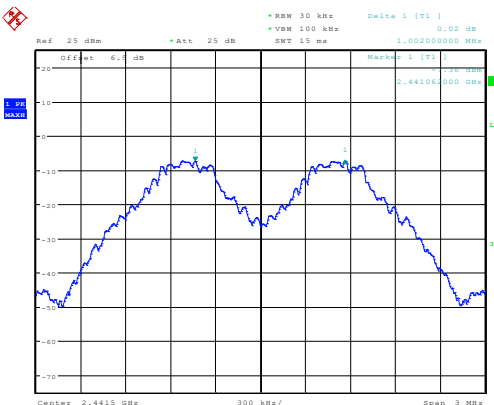
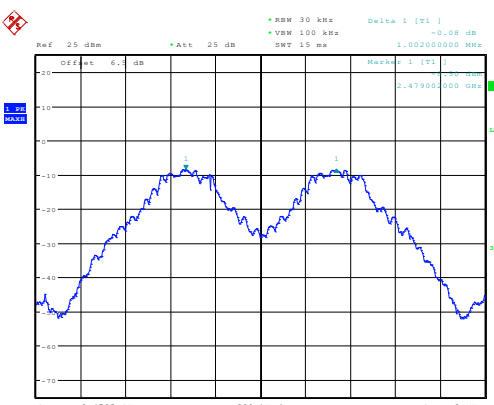
**99% Occupied Bandwidth:**

GFSK	/
Lowest channel	/
 <p>Ref 25 dBm * Att 25 dB SWT 20 ms Marker 1 [T1] -6.90 dBm          Offset 6.5 dB          Center 2.402 GHz 200 kHz Span 2 MHz          Date: 18.JAN.2024 13:20:38</p>	
Middle channel	/
 <p>Ref 25 dBm * Att 25 dB SWT 20 ms Marker 1 [T1] -8.14 dBm          Offset 6.5 dB          Center 2.441 GHz 200 kHz Span 2 MHz          Date: 18.JAN.2024 13:21:05</p>	
High channel	/
 <p>Ref 25 dBm * Att 25 dB SWT 20 ms Marker 1 [T1] -9.29 dBm          Offset 6.5 dB          Center 2.48 GHz 200 kHz Span 2 MHz          Date: 18.JAN.2024 13:21:27</p>	

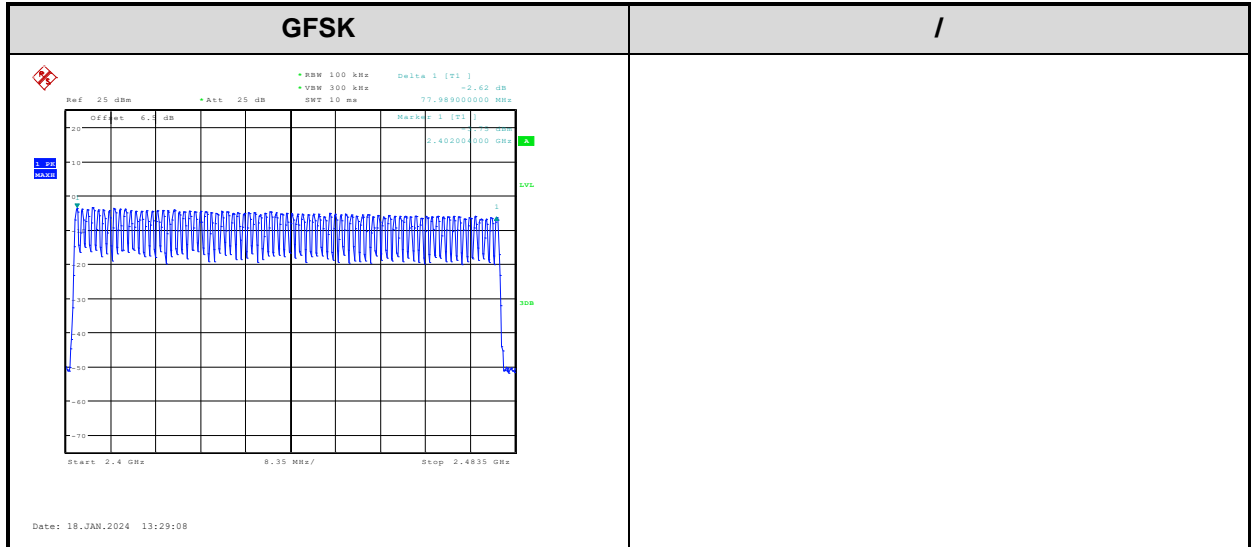
**Maximum Conducted Peak Output Power:**

GFSK	/
Lowest channel	/
 <p>Ref: 25 dBm • Att: 25 dB • BW: 3 MHz • Marker 1 [T1] • -3.06 dBm • VSW: 10 MHz • SWT: 2.5 ms • 2.401980000 GHz</p> <p>Center: 2.402 GHz 1 MHz/ Span: 10 MHz</p> <p>Date: 18.JAN.2024 13:12:31</p>	
Middle channel	/
 <p>Ref: 25 dBm • Att: 25 dB • BW: 3 MHz • Marker 1 [T1] • -4.33 dBm • VSW: 10 MHz • SWT: 2.5 ms • 2.440840000 GHz</p> <p>Center: 2.441 GHz 1 MHz/ Span: 10 MHz</p> <p>Date: 18.JAN.2024 13:12:52</p>	
High channel	/
 <p>Ref: 25 dBm • Att: 25 dB • BW: 3 MHz • Marker 1 [T1] • -5.76 dBm • VSW: 10 MHz • SWT: 2.5 ms • 2.479860000 GHz</p> <p>Center: 2.48 GHz 1 MHz/ Span: 10 MHz</p> <p>Date: 18.JAN.2024 13:13:15</p>	

Channel separation:

GFSK	/
Lowest channel	/
 <p>Date: 18.JAN.2024 13:25:53</p>	
Middle channel	/
 <p>Date: 18.JAN.2024 13:26:59</p>	
High channel	/
 <p>Date: 18.JAN.2024 13:27:44</p>	

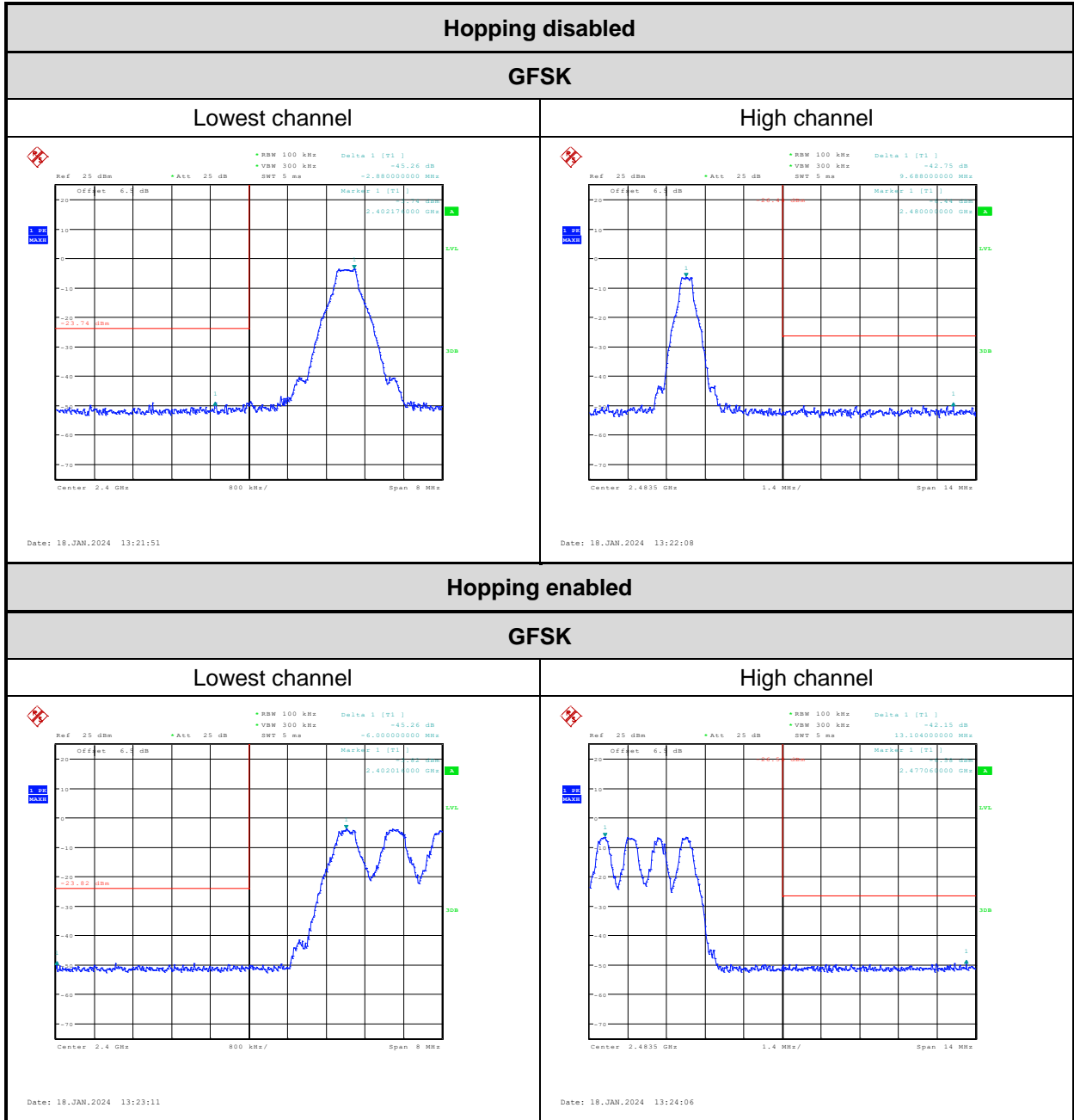
Number of hopping Frequency



Time of occupancy (dwell time)

GFSK	/
DH1	/
<p>Ref 25 dBm * Att 25 dB RBW 1 MHz Marker 1 [T1] -56.75 dBm VSW 3 MHz SWT 1 ms Delta 1 [T1] 398.41355 µs Center 2.441 GHz 500 µs/</p> <p>Date: 18.JAN.2024 13:15:29</p>	
DH3	/
<p>Ref 25 dBm * Att 25 dB RBW 1 MHz Delta 1 [T1] -0.50 dB VSW 3 MHz SWT 3 ms Marker 1 [T1] 633.97323 µs Center 2.441 GHz 300 µs/</p> <p>Date: 18.JAN.2024 13:16:15</p>	
DH5	/
<p>Ref 25 dBm * Att 25 dB RBW 1 MHz Delta 1 [T1] -0.36 dB VSW 3 MHz SWT 5 ms Marker 1 [T1] 2.443590 ms Center 2.441 GHz 500 µs/</p> <p>Date: 18.JAN.2024 13:17:45</p>	

# 100kHz Bandwidth of Frequency Band Edge:



## 4 Test Setup Photo

Please refer to the attachment RWA0202400037 Right Earbud Test Setup photo.



## 5 E.U.T Photo

Please refer to the attachment RWAO202400037 Right Earbud External photo and RWAO202400037 Right Earbud Internal photo.

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