

FCC Test Report

Report No.: RWAQ202400249A

Applicant: Shenzhen Shenyao Technology Co., Ltd

Address: Floor 3, 1st Building, No17 Leyuan Street, Baolong Road,
Longgang District, Shenzhen, Guangdong, China

Product Name: Microphone

Product Model: Vocal X V1

Multiple Models: Vocal X V2, Vocal X V1W, Vocal X V2W, Vocal X V3, Vocal X V4,
Vocal X V5, Vocal X V6, Vocal X TX, Vocal X RX, Vocal X TXW,
Vocal X RXW, Vocal X RCX, Vocal X RLX

Trade Mark: CKMOVA

FCC ID: 2BFKQVOCALX

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

Test Date: 2024-03-22 to 2024-04-03

Test Result: Complied

Report Date: 2024-04-09

Reviewed by:

Frank Yin

Frank Yin
Project Engineer

Approved by:

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Prepared by:

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Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-04-09	Original

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1 General Information

1.1 Client Information

Applicant:	Shenzhen Shenyao Technology Co., Ltd
Address:	Floor 3, 1st Building, No17 Leyuan Street, Baolong Road, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Shenyao Technology Co., Ltd
Address:	Floor 3, 1st Building, No17 Leyuan Street, Baolong Road, Longgang District, Shenzhen, Guangdong, China

1.2 Product Description of EUT

The EUT is Microphone that contains 2.4G radio, this report covers the full testing of the 2.4G radio.

Sample Serial Number	6V-3 (assigned by WATC)
Sample Received Date	2024-03-21
Sample Status	Good Condition
Frequency Range	2409MHz - 2475MHz
Maximum Conducted Peak Output Power	-8.05dBm
Modulation Technology	GFSK
Spatial Streams	SI (1TX)
Antenna Gain [#]	3.0dBi
Power Supply	DC 3.7V from battery or DC 5V from USB port
Operating temperature [#]	10 deg.C to 45 deg.C
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement: 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.	
Device Antenna information:	
The EUT 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)

No related submittal(s)/Grant(s)

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
Note: 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 & 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

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)
1	2409	13	2433	25	2457
2	2411	14	2435	26	2459
3	2413	15	2437	27	2461
4	2415	16	2439	28	2463
5	2417	17	2441	29	2465
6	2419	18	2443	30	2467
7	2421	19	2445	31	2469
8	2423	20	2447	32	2471
9	2425	21	2449	33	2473
10	2427	22	2451	34	2475
11	2429	23	2453	/	/
12	2431	24	2455	/	/

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)
1	2409	17	2441	34	2475

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :		The EUT was configured to transmitting mode by manufacturer		
Mode	Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
GFSK	/	default	default	default

The exercise software and the maximum power setting that provided by manufacturer.

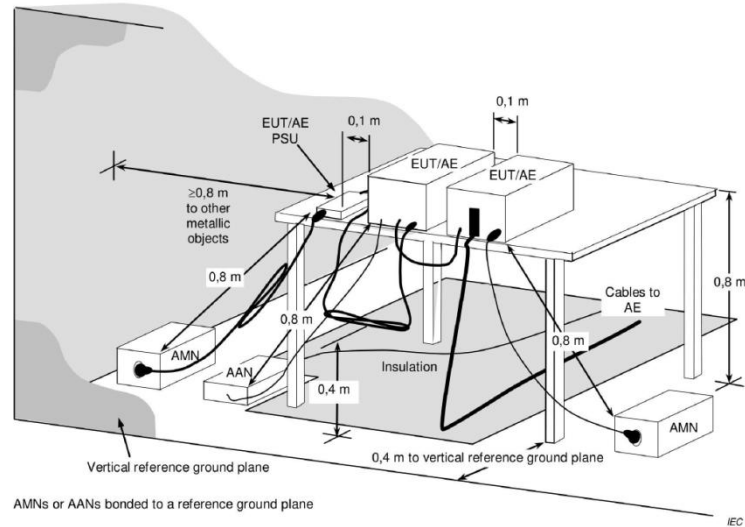
Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest 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
Meizu Technology Co.,LTD	AC adapter	UP0515S	BH17020197T02

2.3 Test Setup

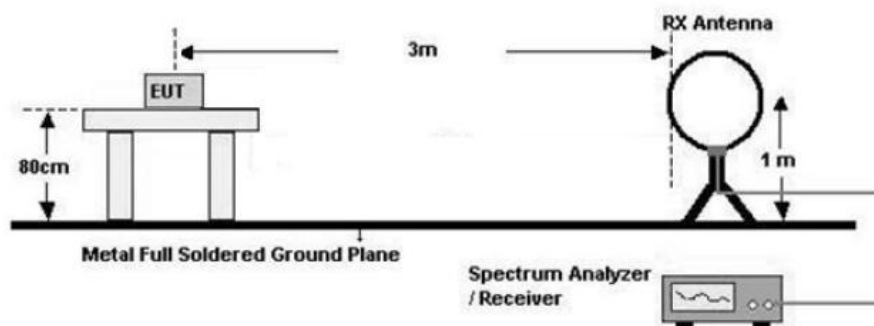
1) Conducted emission measurement:



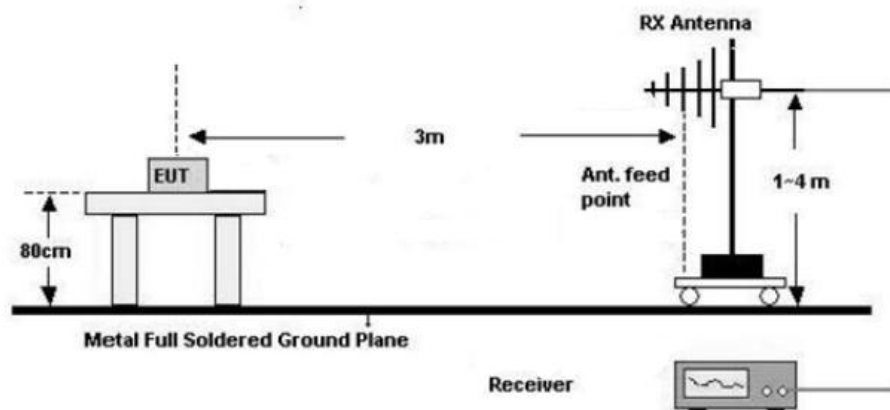
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

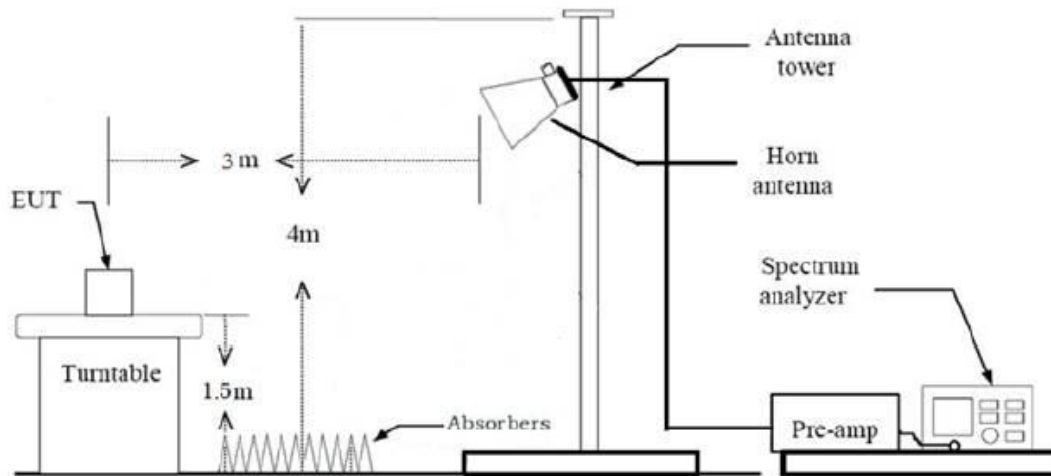
Below 30MHz (3m SAC)



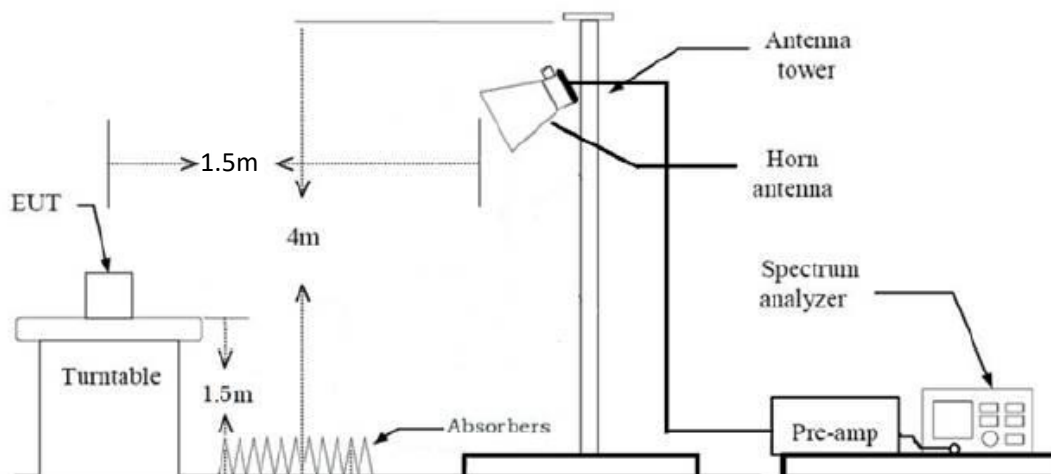
30MHz-1GHz (3m SAC)



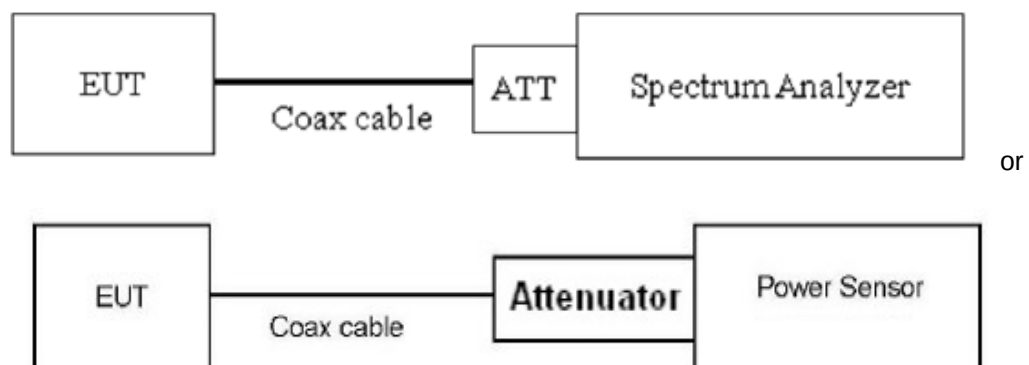
1GHz-18GHz(3m FAC)



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 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the test equipment. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB 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 11.9.1.1
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12.1
Duty Cycle	ANSI C63.10-2020 Section 11.6

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 INSTRUMENT	Low frequency amplifier	310	186014	2023/7/12	2024/7/11
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20

COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
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

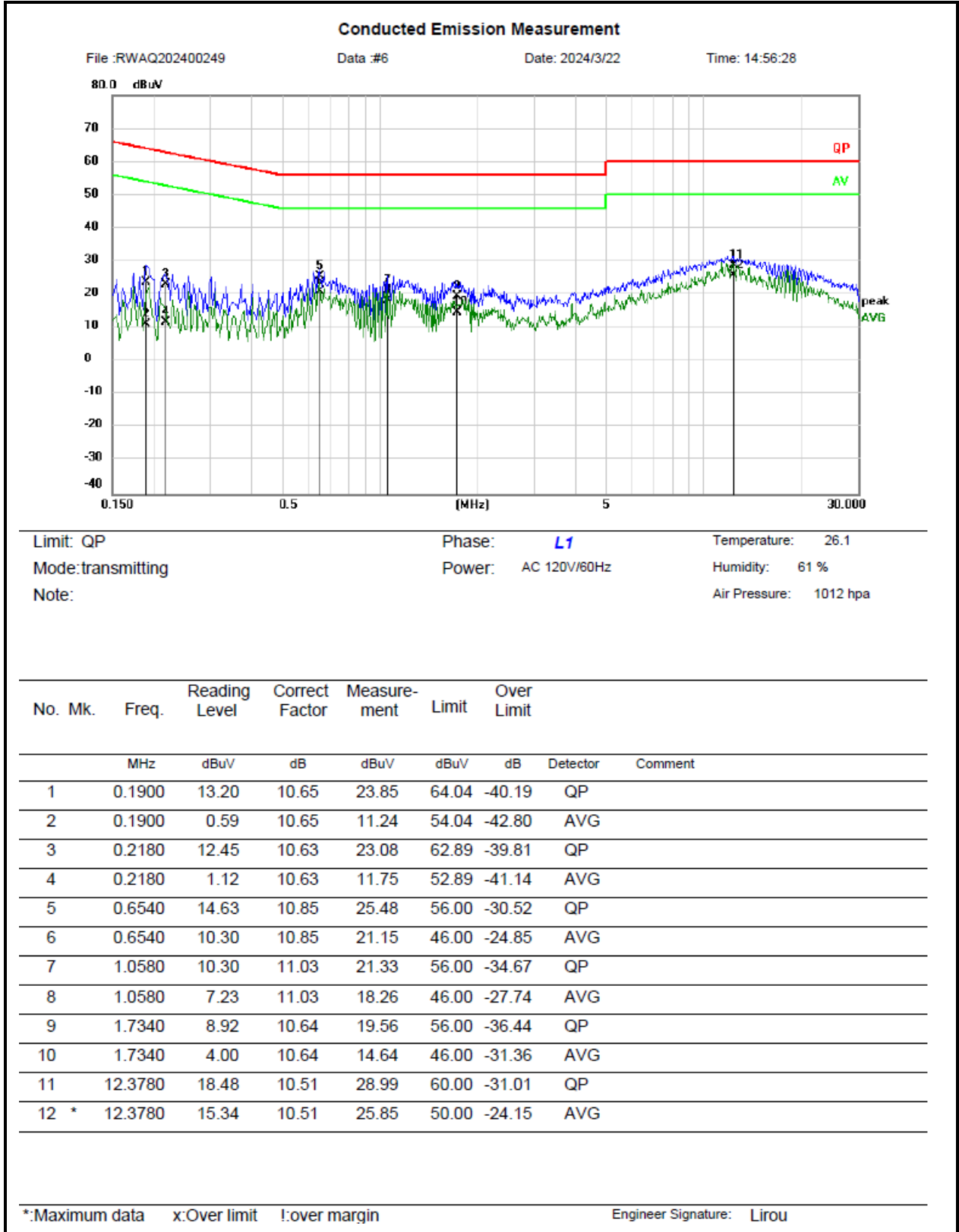
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only

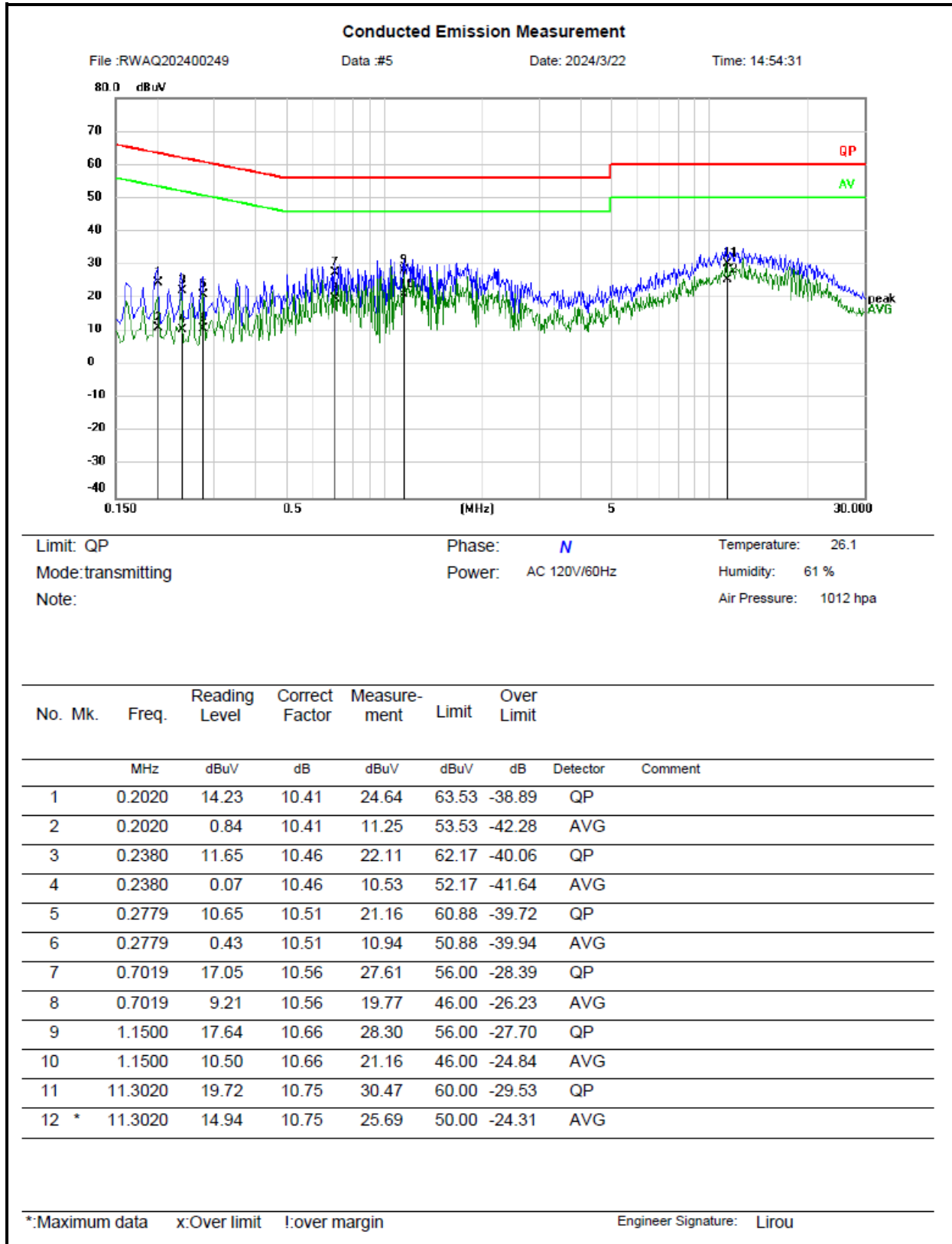
3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
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

Test Date:	2024-03-22	Test By:	Lirou Li
Environment condition:	Temperature: 26.1°C; Relative Humidity:61%; ATM Pressure: 101.2kPa		





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

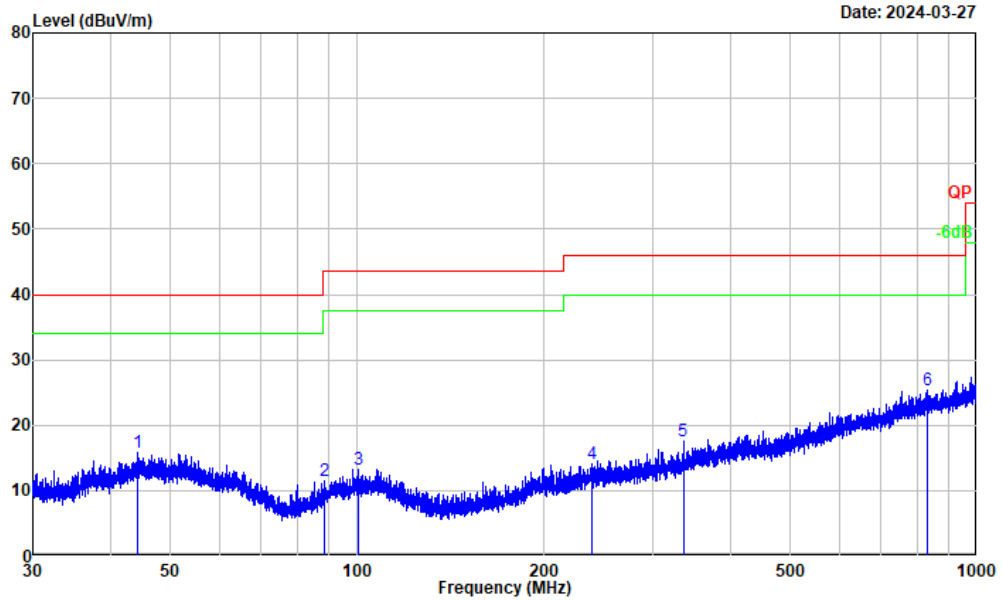
9 kHz-30MHz:

Test Date:	2024-03-27	Test By:	Bard Huang
Environment condition:	Temperature: 21.5°C; Relative Humidity:68%; ATM Pressure: 101.5kPa		

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

30MHz-1GHz:

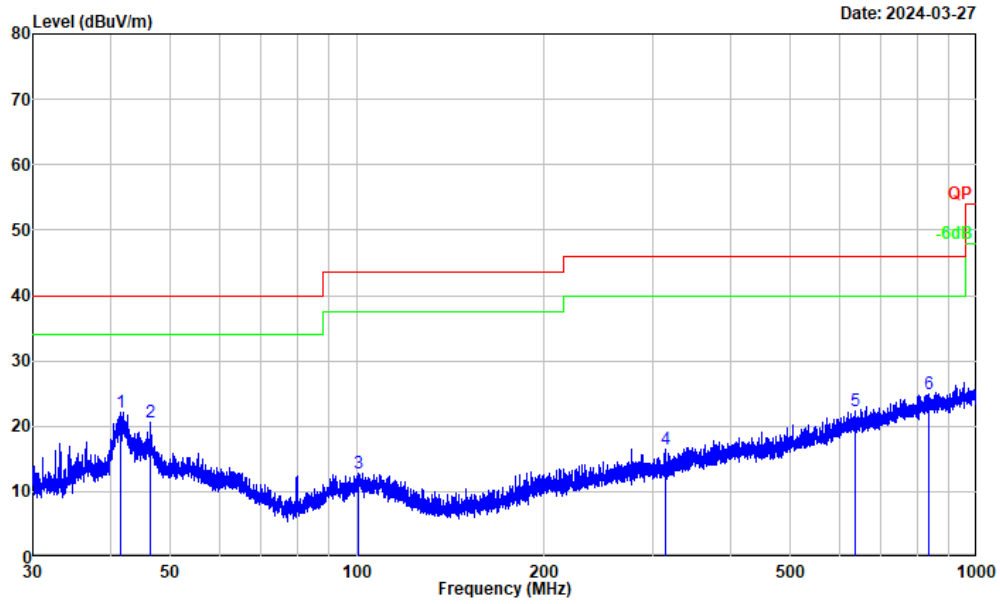
Test Date:	2024-03-27	Test By:	Bard Huang
Environment condition:	Temperature: 21.5°C; Relative Humidity:68%; ATM Pressure: 101.5kPa		



Project No. : RWAQ202400249
 Test Mode : Tranmistting
 Test Voltage : DC 5V
 Environment : 21.5°C/68%R.H./101.5kPa
 Tested by : Bard Huang
 Polarization : horizontal
 Remark : 2409MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	44.336	28.56	-12.74	15.82	40.00	-24.18	Peak
2	88.432	28.33	-16.85	11.48	43.50	-32.02	Peak
3	100.684	28.18	-14.90	13.28	43.50	-30.22	Peak
4	239.945	27.89	-13.87	14.02	46.00	-31.98	Peak
5	335.989	29.17	-11.53	17.64	46.00	-28.36	Peak
6	831.838	29.44	-4.07	25.37	46.00	-20.63	Peak

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



Project No. : RWAQ202400249
Test Mode : Tranmisting
Test Voltage : DC 5V
Environment : 21.5℃/68%R.H./101.5kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 2409MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	41.587	35.28	-13.08	22.20	40.00	-17.80	Peak
2	46.526	33.16	-12.67	20.49	40.00	-19.51	Peak
3	100.640	27.77	-14.90	12.87	43.50	-30.63	Peak
4	314.056	28.82	-12.33	16.49	46.00	-29.51	Peak
5	634.984	28.73	-6.41	22.32	46.00	-23.68	Peak
6	834.395	29.02	-4.01	25.01	46.00	-20.99	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:

Test Date:	2024-04-02	Test By:	Bard Huang
Environment condition:	Temperature: 23.9°C; Relative Humidity:73%; ATM Pressure: 100.3kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
Low Channel							
2390.000	37.84	horizontal	8.25	46.09	54.00	-7.91	Average
2390.000	48.67	horizontal	8.25	56.92	74.00	-17.08	Peak
2390.000	37.27	vertical	8.25	45.52	54.00	-8.48	Average
2390.000	48.80	vertical	8.25	57.05	74.00	-16.95	Peak
4818.000	50.58	horizontal	0.25	50.83	74.00	-23.17	Peak
4818.000	48.28	vertical	0.25	48.53	74.00	-25.47	Peak
Middle Channel							
4882.000	48.71	horizontal	0.45	49.16	74.00	-24.84	Peak
4882.000	48.22	vertical	0.45	48.67	74.00	-25.33	Peak
High Channel							
2483.500	36.98	horizontal	8.25	45.23	54.00	-8.77	Average
2483.500	49.22	horizontal	8.25	57.47	74.00	-16.53	Peak
2483.500	36.49	vertical	8.25	44.74	54.00	-9.26	Average
2483.500	49.25	vertical	8.25	57.50	74.00	-16.50	Peak
4950.000	49.21	horizontal	0.87	50.08	74.00	-23.92	Peak
4950.000	47.76	vertical	0.87	48.63	74.00	-25.37	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

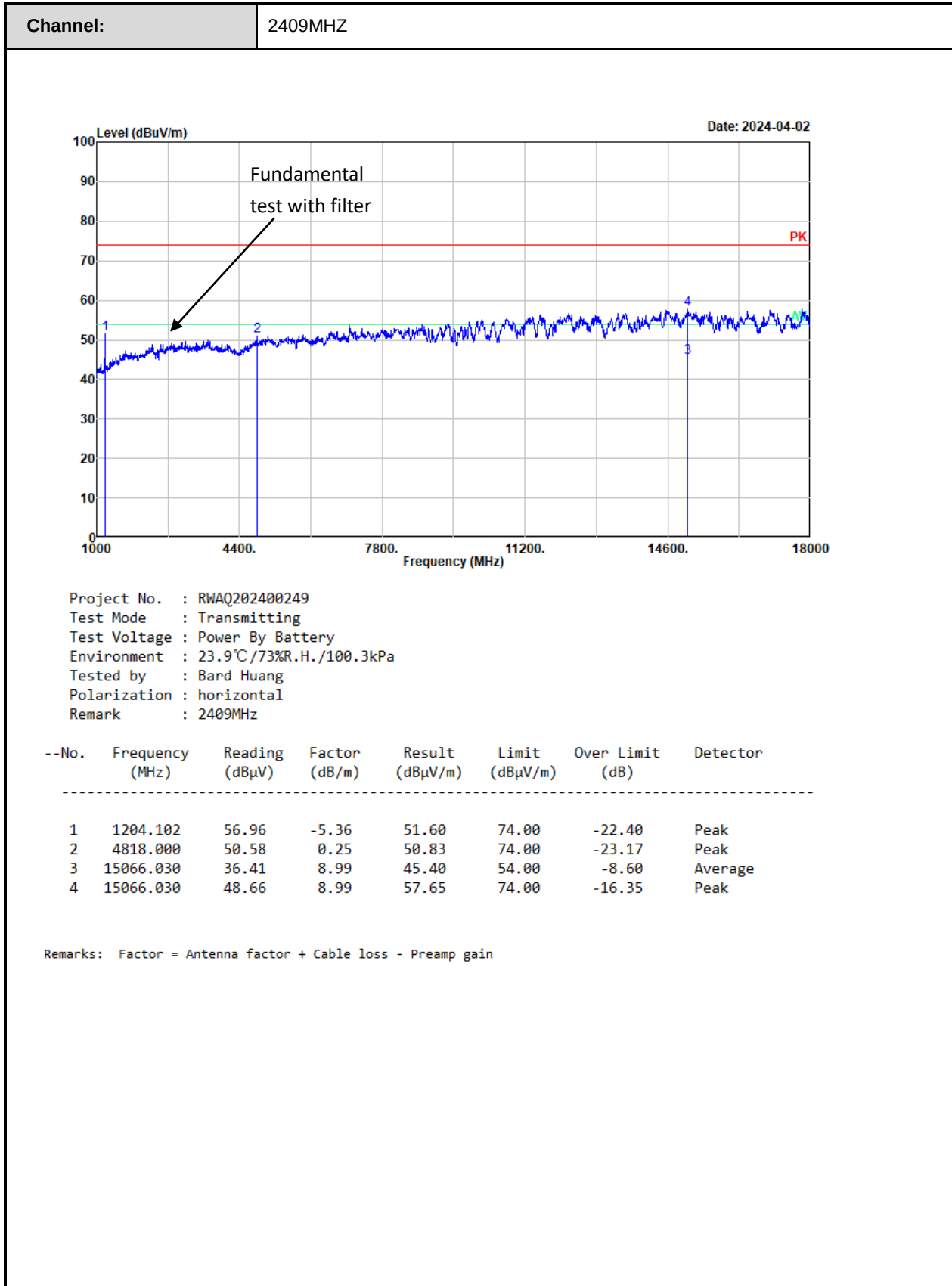
Margin = Corrected Amplitude – Limit

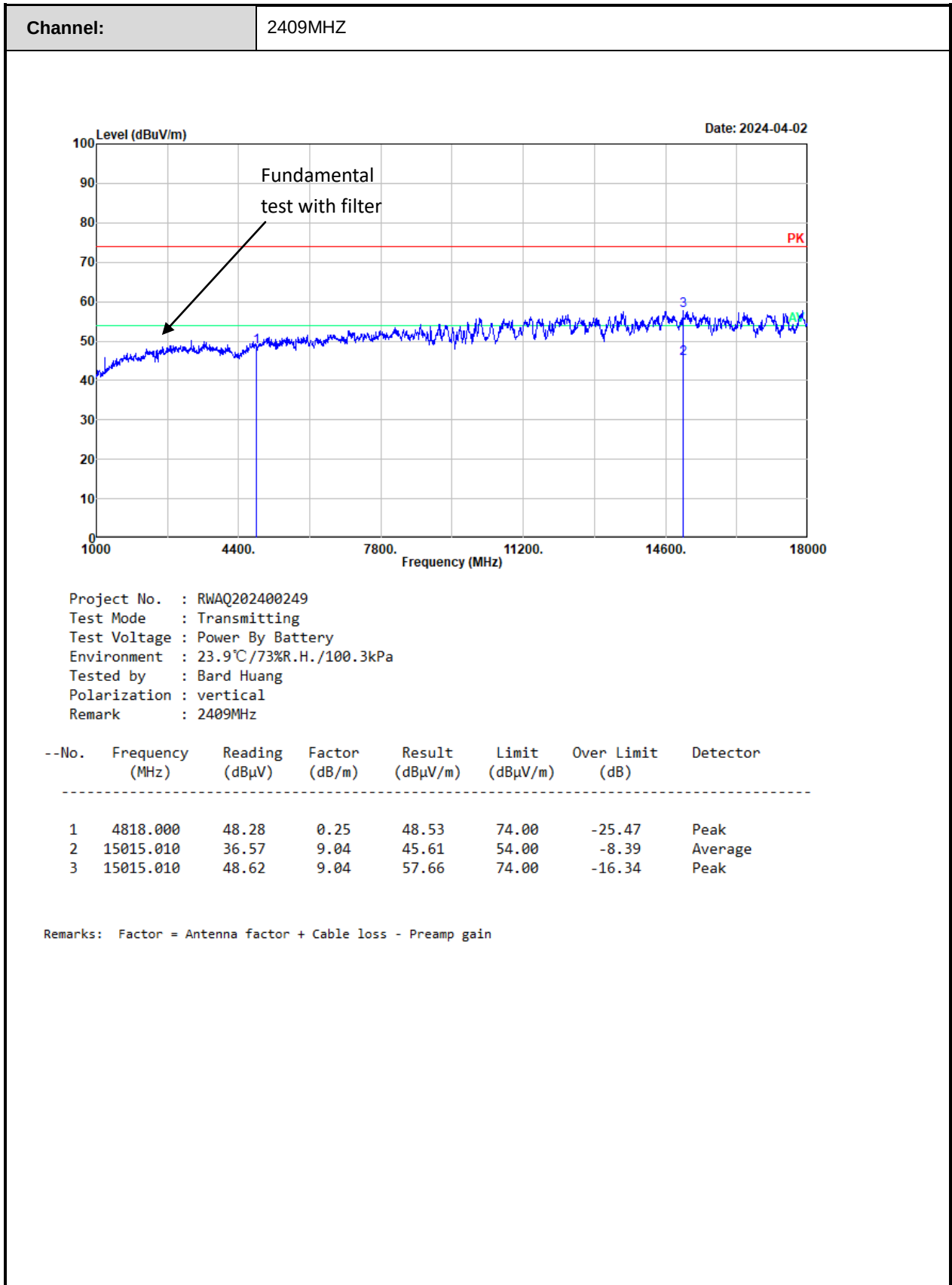
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

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:	2024-04-03	Test By:	Ryan Zhang
Environment condition:	Temperature: 26.3°C; Relative Humidity:58%; ATM Pressure: 100.7kPa		

3.5.1 6 dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Channel [MHz]	6dB BW [MHz]	99% OBW[MHz]	6dB BW Limit[MHz]	Verdict
GFSK	2409	0.808	1.705	0.5	pass
	2441	0.808	1.718	0.5	pass
	2475	0.814	1.756	0.5	pass

3.5.2 Maximum Conducted Peak Output Power

Test Mode	Channel [MHz]	Result [dBm]	Limit [dBm]	Verdict
GFSK	2409	-8.05	30	Pass
	2441	-10.12	30	Pass
	2475	-13.08	30	Pass

3.5.3 Power Spectral Density

Test Mode	Channel [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
GFSK	2409	-20.60	8	Pass
	2441	-22.82	8	Pass
	2475	-25.15	8	Pass

3.5.4 100 kHz Bandwidth of Frequency Band Edge

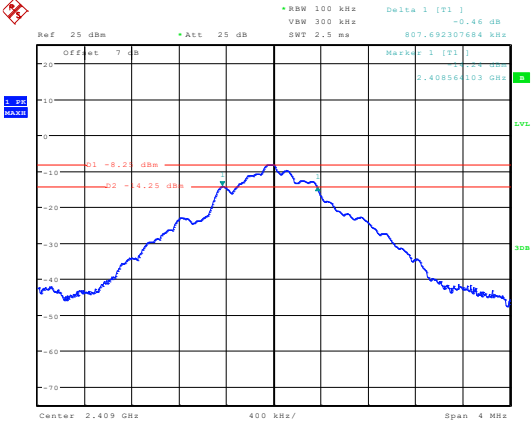
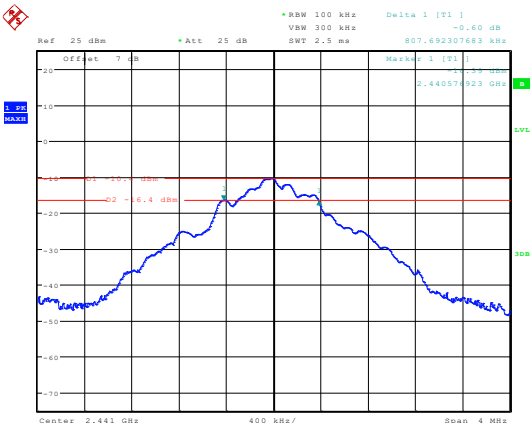
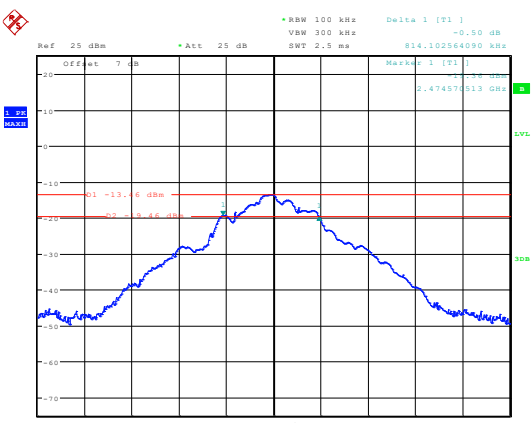
Test Mode	Channel [MHz]	Result	Limit	Verdict
GFSK	2409	Refer test plot	Refer test plot	Pass
	2475	Refer test plot	Refer test plot	Pass

3.5.5 Duty Cycle

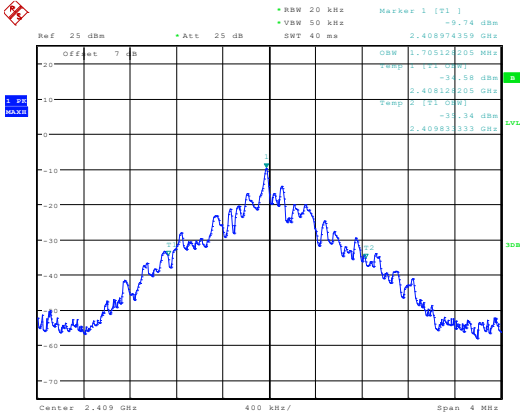
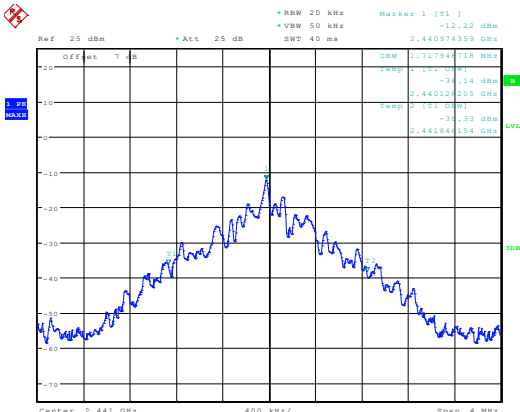
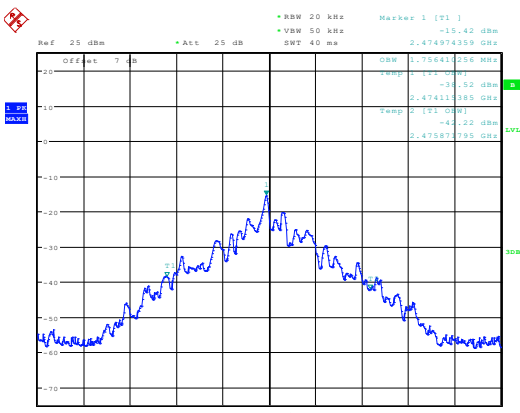
Test Mode	Channel	Ton (ms)	Ton+off (ms)	Duty Cycle [%]	1/T [kHz]	VBW setting [Hz]
GFSK	2441	0.242	1.748	13.84	4.132	5000

Test Plots:

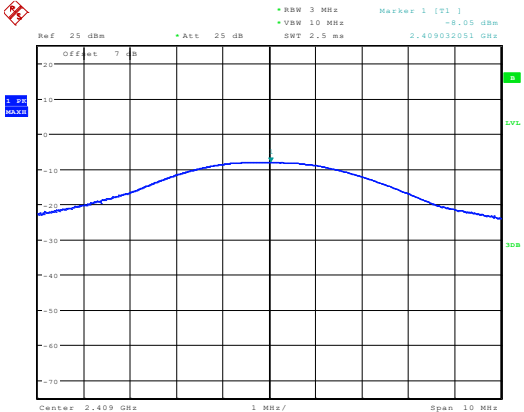
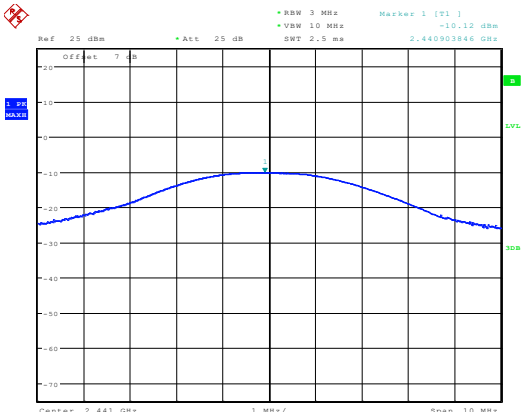
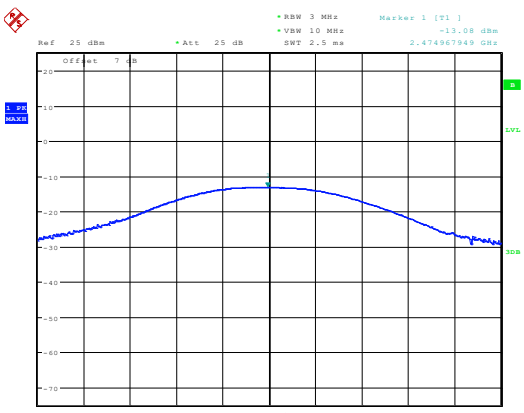
6 dB Emission Bandwidth:

GFSK	/
Lowest channel	/
 Ref: 25 dBm *Att: 25 dB RBW 100 kHz Delta 1 [T1] -0.46 dB VSW 300 kHz SWT 2.5 ms 807.692307684 kHz Marker 1 [T1] 2.40356103 GHz Offset 7 dB LVL 30B Center 2.403 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:41:47	/
Middle channel	/
 Ref: 25 dBm *Att: 25 dB RBW 100 kHz Delta 1 [T1] -0.60 dB VSW 300 kHz SWT 2.5 ms 807.692307683 kHz Marker 1 [T1] 2.440574923 GHz Offset 7 dB LVL 30B Center 2.441 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:38:04	/
High channel	/
 Ref: 25 dBm *Att: 25 dB RBW 100 kHz Delta 1 [T1] -0.50 dB VSW 300 kHz SWT 2.5 ms 814.102564590 kHz Marker 1 [T1] 2.474570513 GHz Offset 7 dB LVL 30B Center 2.475 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:36:39	/

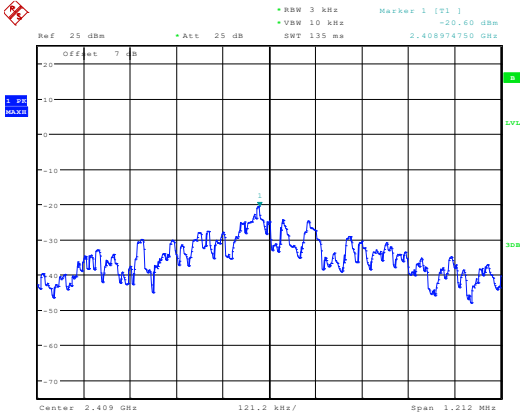
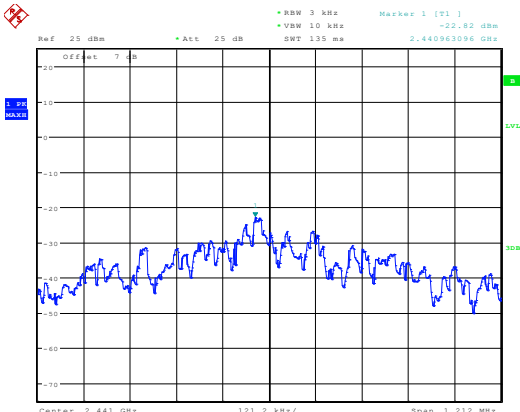
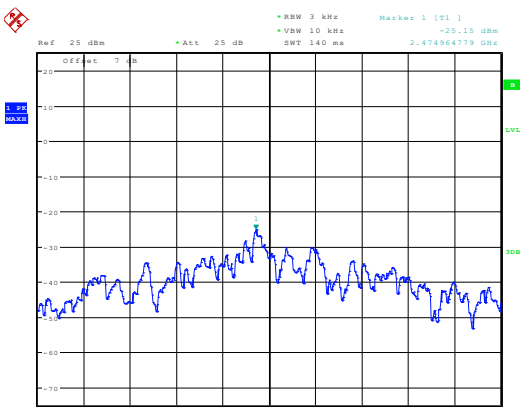
99% Occupied Bandwidth:

GFSK	/
Lowest channel	/
 Ref: 25 dBm • Att: 25 dB • RBW 20 kHz • VSW 50 kHz • SWT 40 ms • Marker 1 [T1] -34.58 dBm Center 2.409 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:43:31	/
Middle channel	/
 Ref: 25 dBm • Att: 25 dB • RBW 20 kHz • VSW 50 kHz • SWT 40 ms • Marker 1 [T1] -34.14 dBm Center 2.441 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:44:10	/
High channel	/
 Ref: 25 dBm • Att: 25 dB • RBW 20 kHz • VSW 50 kHz • SWT 40 ms • Marker 1 [T1] -35.42 dBm Center 2.475 GHz 400 kHz Span 4 MHz Date: 3.APR.2024 14:45:01	/

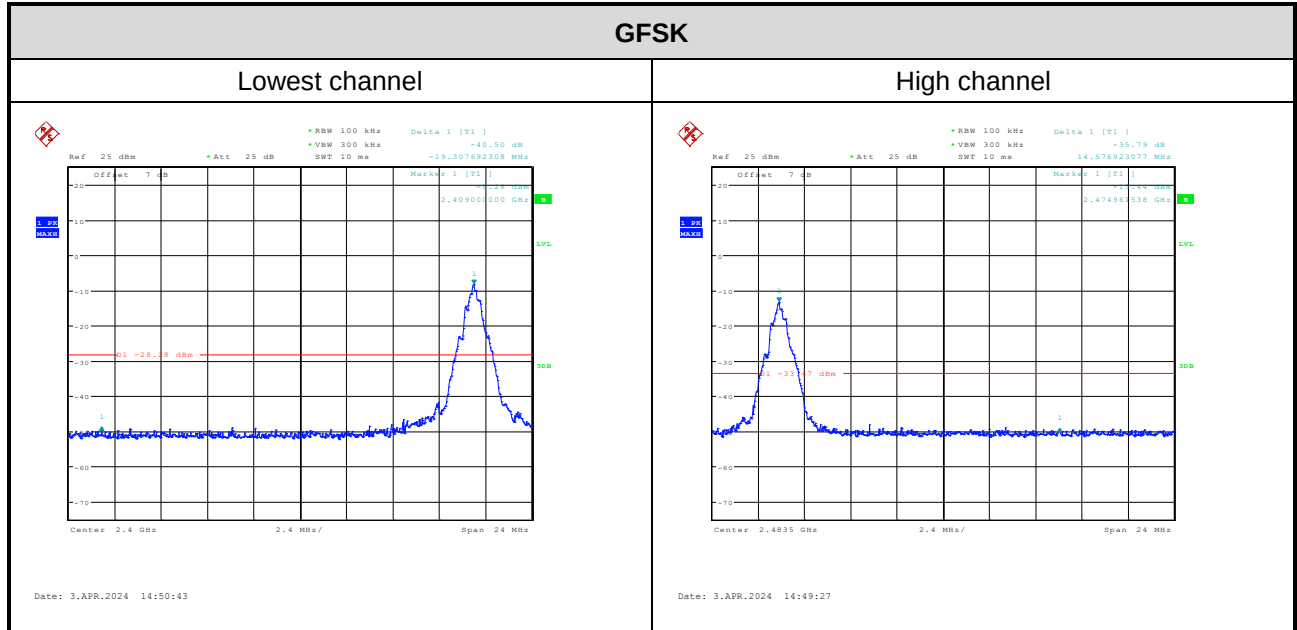
Maximum Conducted Peak Output Power:

GFSK	/
Lowest channel	/
 Date: 3.APR.2024 14:52:19	/
Middle channel	/
 Date: 3.APR.2024 14:53:20	/
High channel	/
 Date: 3.APR.2024 14:54:06	/

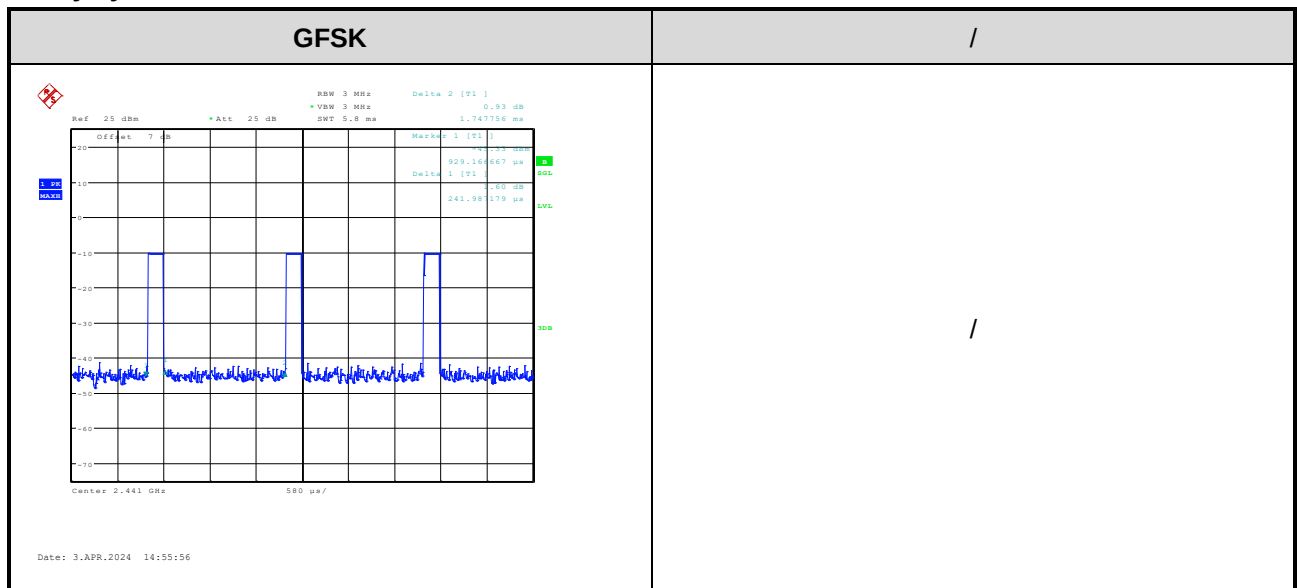
Power Spectral Density:

GFSK	/
Lowest channel	/
	/
Middle channel	/
	/
High channel	/
	/

100kHz Bandwidth of Frequency Band Edge:



Duty cycle:



4 Test Setup Photo

Please refer to the attachment RWAQ202400249 Test Setup photo.

5 E.U.T Photo

Please refer to the attachment RWAQ202400249 External photo and RWAQ202400249 Internal photo.

---End of Report---