



TEST REPORT

Applicant Name: Bytech NY Inc.

Address: 2585 West 13th Street, Brooklyn NY 11223, New York, United

States

Report Number: 2401W91089E-RF-00 FCC ID: 2AHN6-AUBS179

Test Standard (s) FCC PART 15.247

Sample Description

Product Type: Jellyfish Bluetooth Speaker-GY

Model No.: BY-AU-BS-179-GY

Multiple Model(s) No.: N/A

Trade Mark: BYTECH

Date Received: 2024/08/27 Issue Date: 2024/09/14

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By: Approved By:

EKKO. Wu Michelle Zeng

Ekko WuMichelle ZengRF EngineerRF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401W91089E-RF-00	Original Report	2024/09/14

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Jellyfish Bluetooth Speaker-GY
Tested Model	BY-AU-BS-179-GY
Multiple Model(s)	N/A
UPC Number	805112132140
SKU Number	9166083
LOT Number	BY083024
Frequency Range	Bluetooth: 2402~2480MHz
Transmit Peak Power	7.39 dBm
Modulation Technique	Bluetooth: GFSK, π/4-DQPSK, 8DPSK
Antenna Specification [#]	2.499dBi (provided by the applicant)
Voltage Range	DC 3.7V from battery or DC 5V from charging port
Sample serial number	2PXO-2 for Conducted and Radiated Emissions Test 2PXO-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

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Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.207, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		•	Uncertainty		
Occupied Channel Bandwidth		Bandwidth	±5%		
RF outpu	RF output power, conducted		0.72 dB(k=2, 95% level of confidence)		
AC Power Lines Cond	ucted	9kHz-150kHz	3.94dB(k=2, 95% level of confidence)		
Emissions		150kHz-30MHz	3.84dB(k=2, 95% level of confidence)		
		9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)		
	30MH	z~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)		
	30MHz~200MHz (Vertical)		30MHz~200MHz (Vertical)		4.55dB(k=2, 95% level of confidence)
Radiated Emissions	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)		
Radiated Ellissions	200MHz~1000MHz (Vertical)		5.05dB(k=2, 95% level of confidence)		
	1GHz - 6GHz		5.35dB(k=2, 95% level of confidence)		
		6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)		
	18GHz - 40GHz		5.16dB(k=2, 95% level of confidence)		
Temperature		re	±1°C		
Humidity			±1%		
Supply voltages		ges	±0.4%		

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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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

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.: 715558, the FCC Designation No.: CN5045.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
2	2404	42	2444
•••			
36	2438	75	2477
37	2439	76	2478
38	2440	77	2479
39	2441	78	2480

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EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

"bt_tool_v1.1.2" exercise software was used and the power level is 5". The software and power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Govee	Govee Adapter BI12T-050200		unknown
OUPU	Receptacle	unknown	unknown

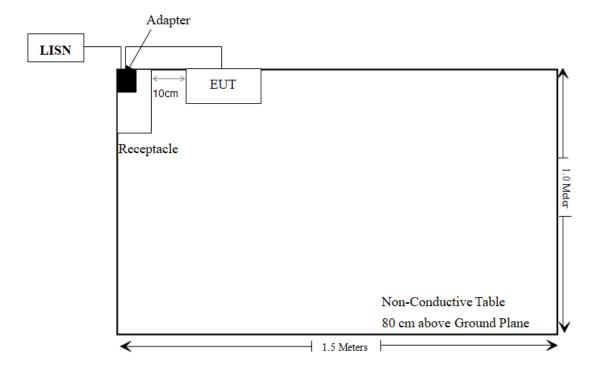
External I/O Cable

Cable Description	Length (m)	From Port	То
Type-c Cable	0.5	EUT	Adapter
Un-shielded Un-detachable AC Cable	1.0	Receptacle	LISN/AC Mains

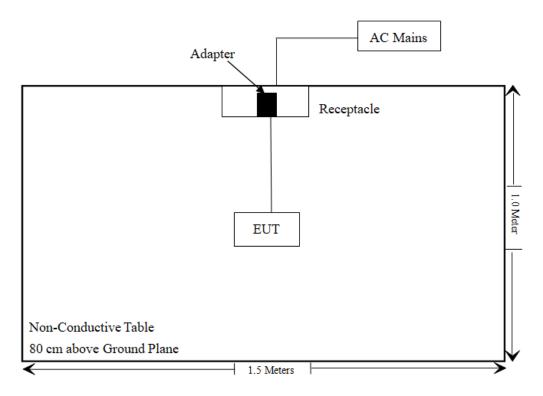
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Block Diagram of Test Setup

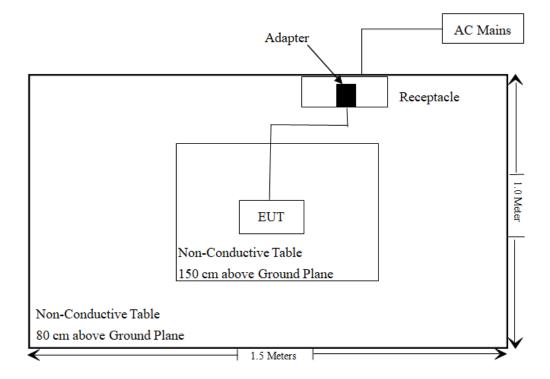
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Rules	Description of Test Res	
FCC §15.247 (i), §1.1307 (b) (3) & §2.1091	Maximum Permissible Exposure(MPE)	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation Test Complia	
FCC §15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
FCC §15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
FCC §15.247(b)(1)	Peak Output Power Measurement	Compliant
FCC §15.247(d)	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Co	onducted Emission Tes	st		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1- 0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
	R	Radiated Emission Test	t		
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	ЈВ1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/05/21	2025/05/20
Unknown	Cable	PNG214	1354	2024/05/21	2025/05/20
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	2024/06/18	2025/06/17
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17
Unknown	RF Cable	XH750A-N	J-10M	2024/06/18	2025/06/17
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	2024/06/18	2025/06/17
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/06/18	2025/06/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		RF Conducted Test			
Tonscend	RF control Unit	JS0806-2	19D8060154	2023/09/06	2024/09/05
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/01/16	2025/01/15
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

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According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

Ris the minimum separation distance in meters f = frequency in MHz

Result

Mode	Frequency	Tune up conducted		Antenna Gain [#] ERP		Evaluation	ERP Limit	
Mode	(MHz)	power [#] (dBm)	(dBi)	(dBd)	(dBm)	(W)	Distance (m)	(W)
BT	2402-2480	7.5	2.499	0.349	7.849	0.006	0.2	0.768

Note: The tune up conducted power and antenna gain was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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 shall be considered sufficient to comply with the provisions of this Section. 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.

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Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has a PCB antenna arrangement, which was permanently attached, the antenna gain[#] is 2.499dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

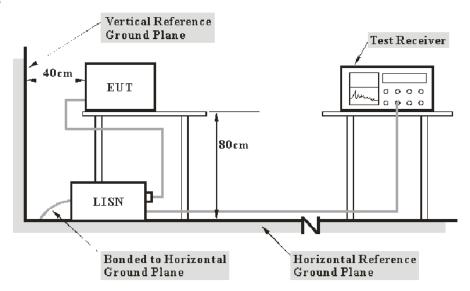
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FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



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Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

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Factor = LISN VDF + Cable Loss
```

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

```
Over Limit = Level – Limit
Level = Read Level + Factor
```

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

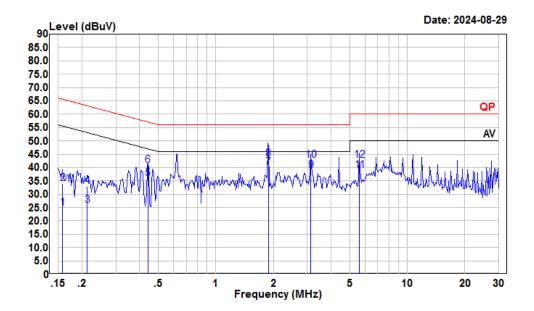
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	67 %
ATM Pressure:	101.0 kPa

The testing was performed by Macy Shi on 2024-08-29.

EUT operation mode: Transmitting (Maximum output power mode, EDR(8DPSK) Low Channel)

AC 120V/60 Hz, Line



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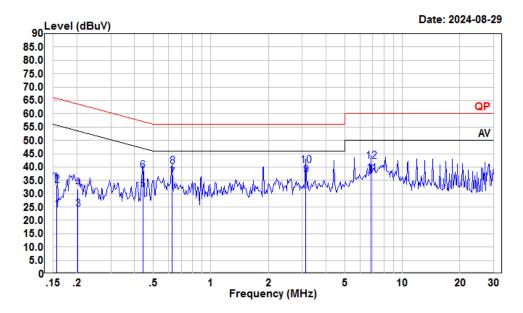
Condition: Line

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tester : Macy.shi Note : Transmitting

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	3.80	24.80	10.88	10.12	55.56	-30.76	Average
2	0.158	12.96	33.96	10.88	10.12	65.56	-31.60	QP
3	0.213	4.84	25.71	10.78	10.09	53.10	-27.39	Average
4	0.213	12.14	33.01	10.78	10.09	63.10	-30.09	QP
5	0.442	15.15	35.81	10.54	10.12	47.02	-11.21	Average
6	0.442	20.02	40.68	10.54	10.12	57.02	-16.34	QP
7	1.879	19.10	39.86	10.58	10.18	46.00	-6.14	Average
8	1.879	22.50	43.26	10.58	10.18	56.00	-12.74	QP
9	3.128	18.40	38.99	10.41	10.18	46.00	-7.01	Average
10	3.128	22.20	42.79	10.41	10.18	56.00	-13.21	QP
11	5.635	18.41	39.01	10.42	10.18	50.00	-10.99	Average
12	5.635	22.11	42.71	10.42	10.18	60.00	-17.29	QP

AC 120V/60 Hz, Neutral



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Condition: Neutral

Project : 2401W91089E-RF

tester : Macy.shi Note : Transmitting

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
-	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.156	3.28	23.97	10.57	10.12	55.65	-31.68	Average
2	0.156	12.41	33.10	10.57	10.12	65.65	-32.55	QP
3	0.202	3.63	24.12	10.40	10.09	53.54	-29.42	Average
4	0.202	11.38	31.87	10.40	10.09	63.54	-31.67	QP
5	0.442	10.66	31.44	10.66	10.12	47.02	-15.58	Average
6	0.442	17.77	38.55	10.66	10.12	57.02	-18.47	QP
7	0.627	15.05	35.88	10.70	10.13	46.00	-10.12	Average
8	0.627	19.32	40.15	10.70	10.13	56.00	-15.85	QP
9	3.129	16.30	36.88	10.40	10.18	46.00	-9.12	Average
10	3.129	20.00	40.58	10.40	10.18	56.00	-15.42	QP
11	6.884	16.60	37.48	10.69	10.19	50.00	-12.52	Average
12	6.884	21.40	42.28	10.69	10.19	60.00	-17.72	QP

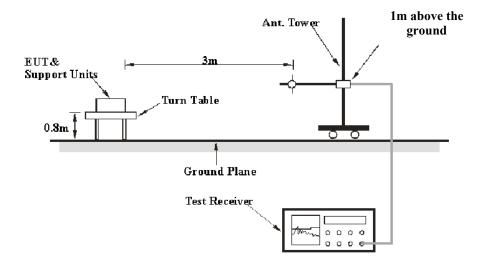
FCC §15.205, §15.209 & §15.247(d) - RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

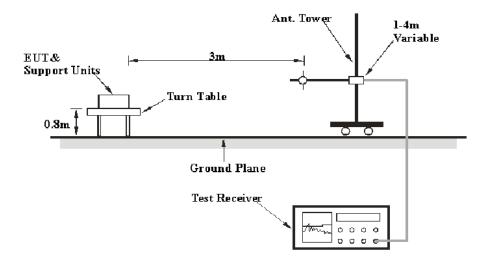
EUT Setup

9 kHz-30MHz:

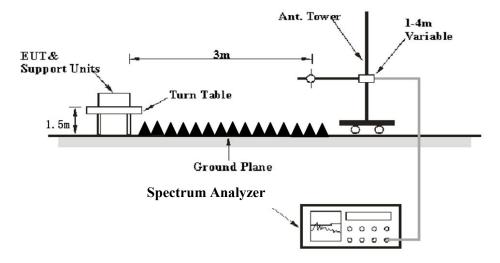


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30MHz-1GHz:



Above 1GHz:



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The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement				
9 kHz – 150 kHz	/	/	200 Hz	QP				
9 KHZ – 130 KHZ	300 Hz	1 kHz	/	PK				
150111 20161	/	/	9 kHz	QP				
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK				
20 MII- 1000 MII-	/	/	120 kHz	QP				
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK				
	Harmonics & Band Edge							
	1MHz	3 MHz	/	PK				
Above 1 GHz	Average Emission Level=Peak Emission Level+20*log(Duty cycle)							
Above I GHZ		Other Em	issions					
	1MHz	3 MHz	/	PK				
	1MHz	10 Hz	/	Average				

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c). Duty cycle=On time/100milliseconds, On time=N1*L1+N2*L2+...Nn-1*Ln-1+Nn*Ln, Where N1 is number of type 1 pulses, L1 is length of type 1 pulse, etc.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level/Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	24~25.6 °C
Relative Humidity:	50~57 %
ATM Pressure:	101.0 kPa

The testing was performed by Jack Liu on 2024-08-30 for below 1GHz, Sadow Tan on 2024-08-30 and Dylan Yang on 2024-09-09 for above 1GHz.

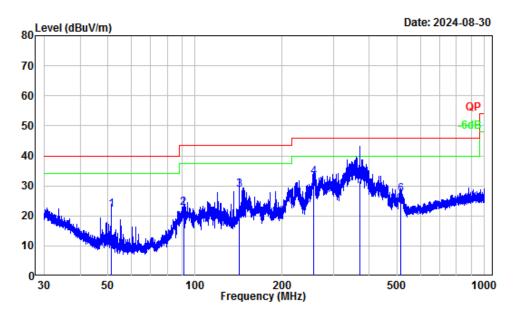
Test mode: Transmitting

Note: After pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation were recorded.

Bay Area Compliance Laboratories Corp. (Shenzhen)	Report No.: 2401W91089E-RF-00
9 kHz-30MHz: (Maximum output power mode, EDR Mode (8DPSK) Low channel)
The amplitude of spurious emissions attenuated more than 20	dB below the limit was not recorded.

Horizontal

Report No.: 2401W91089E-RF-00

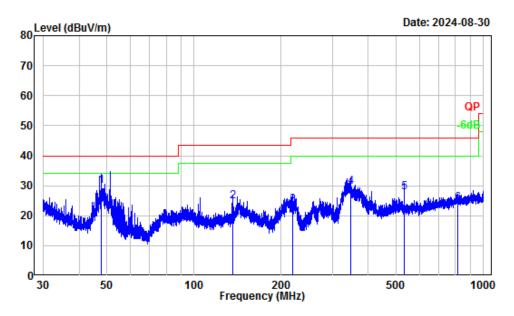


Site : Chamber A
Condition : 3m Horizontal
Project Number: 2401W91089E-RF
Test Mode : Transmitting
Tester : Jack Liu

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.19	-18.14	40.07	21.93	40.00	-18.07	QP
2	91.09	-17.95	40.46	22.51	43.50	-20.99	QP
3	141.95	-11.98	40.75	28.77	43.50	-14.73	QP
4		-13.00	45.83	32.83	46.00	-13.17	QP
5	370.70	-9.49	41.30	31.81	46.00	-14.19	QP
6	514.31	-5.86	33.14	27.28	46.00	-18.72	QP

Vertical

Report No.: 2401W91089E-RF-00



Site : Chamber A
Condition : 3m Vertical
Project Number: 2401W91089E-RF
Test Mode : Transmitting
Tester : Jack Liu

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	47.81	-17.26	47.09	29.83	40.00	-10.17	QP
2	135.92	-11.59	36.28	24.69	43.50	-18.81	QP
3	218.40	-14.19	37.83	23.64	46.00	-22.36	QP
4	347.87	-10.21	39.76	29.55	46.00	-16.45	QP
5	533.36	-5.74	33.55	27.81	46.00	-18.19	QP
6	817.04	-2.04	26.13	24.09	46.00	-21.91	QP

Above 1GHz (Maximum output power mode, EDR Mode (8DPSK):

	Receiver			_	Corrected							
Frequency (MHz)	Reading (dBμV)	PK/AV	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)					
			8DPSK									
	Low Channel 2402MHz											
2376.381	54.81	PK	Н	-3.18	51.63	74	-22.37					
2327.254	53.82	PK	V	-3.12	50.70	74	-23.30					
4804.00	65.94	PK	Н	1.69	67.63	74	-6.37					
4804.00	57.53	PK	V	1.69	59.22	74	-14.78					
			Middle Channel 2441	MHz								
4882.00	67.69	PK	Н	1.69	69.38	74	-4.62					
4882.00	58.28	PK	V	1.69	59.97	74	-14.03					
			High Channel 2480N	⁄IHz								
2491.006	54.61	PK	Н	-3.18	51.43	74	-22.57					
2499.275	54.51	PK	V	-3.20	51.31	74	-22.69					
4960.00	65.81	PK	Н	2.77	68.58	74	-5.42					
4960.00	53.94	PK	V	2.77	56.71	74	-17.29					

Report No.: 2401W91089E-RF-00

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude /Level= Factor + Reading

Margin = Corrected Amplitude/Level - Limit

The other spurious emission which is in the noise floor level was not recorded.

	Field Strength of Average												
Frequency (MHz)	Peak Measurement @3m (dBµV/m)	Polar (H/V)	Duty Cycle Corrected Factor (dB)	Average Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comment						
Low Channel 2402MHz													
2376.381	51.63	Н	-24.73	26.90	54	-27.10	Bandedge						
2327.254	50.70	V	-24.73	25.97	54	-28.03	Bandedge						
4804.00	67.63	Н	-24.73	42.90	54	-11.10	Harmonic						
4804.00	59.22	V	-24.73	34.49	54	-19.51	Harmonic						
			Middle Chann	nel 2441MHz									
4882.00	69.38	Н	-24.73	44.65	54	-9.35	Harmonic						
4882.00	59.97	V	-24.73	35.24	54	-18.76	Harmonic						
			High Channe	el 2480MHz									
2491.006	51.43	Н	-24.73	26.70	54	-27.30	Bandedge						
2499.275	51.31	V	-24.73	26.58	54	-27.42	Bandedge						
4960.00	68.58	Н	-24.73	43.85	54	-10.15	Harmonic						
4960.00	56.71	V	-24.73	31.98	54	-22.02	Harmonic						

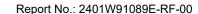
Report No.: 2401W91089E-RF-00

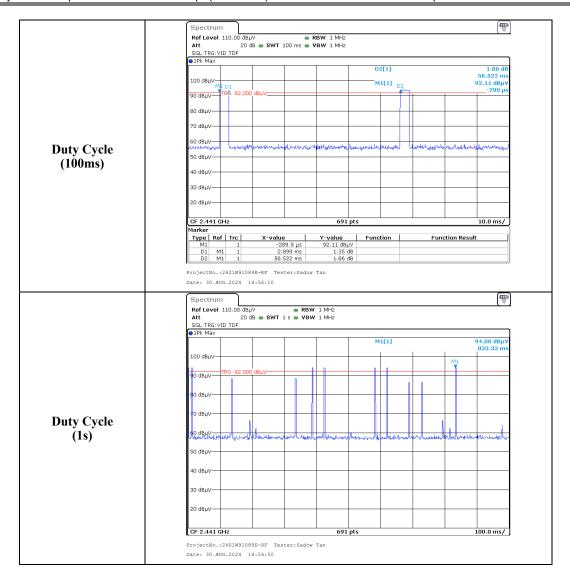
Note: Average level= Peak level+ Duty Cycle Corrected Factor Margin = Average level - Limit

Worst case duty cycle:

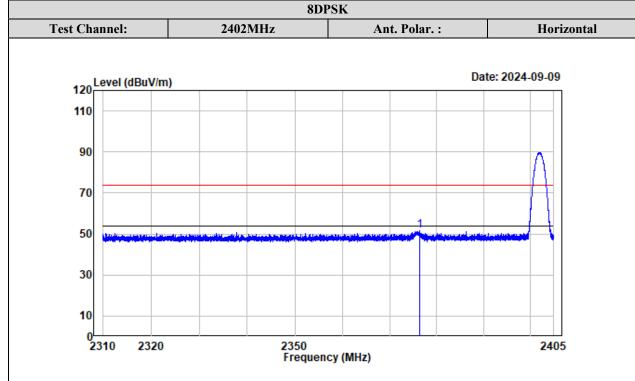
Duty cycle = Ton/100ms = 2.90*2/100=0.058

Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.058 = -24.73





Test plots for Band Edge Measurements (Radiated):



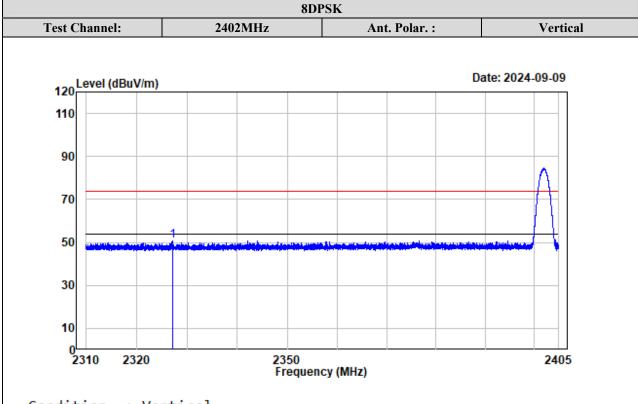
Report No.: 2401W91089E-RF-00

Condition : Horizontal
Project No.: 2401W91089E-RF
Tester : Dylan.Yang
Note : BT_3DH5_2402

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2376.381 -3.18 54.81 51.63 74.00 -22.37 peak



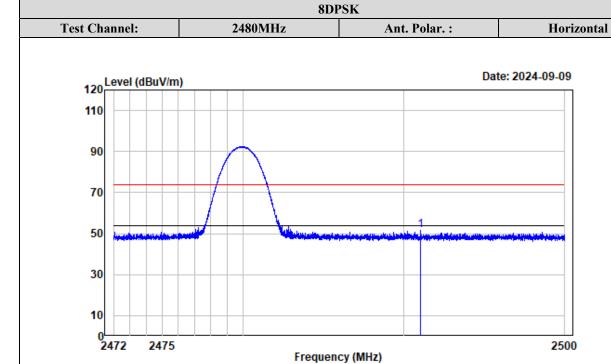
Condition : Vertical

Project No.: 2401W91089E-RF Tester : Dylan.Yang Note : BT_3DH5_2402

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2327.254 -3.12 53.82 50.70 74.00 -23.30 peak

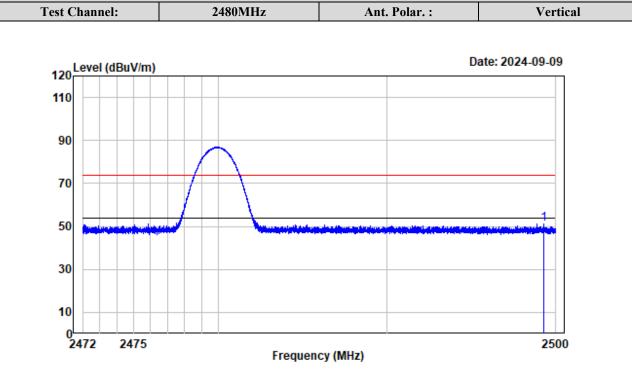


Condition : Horizontal
Project No.: 2401W91089E-RF
Tester : Dylan.Yang
Note : BT_3DH5_2480

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB dB

1 2491.006 -3.18 54.61 51.43 74.00 -22.57 peak



8DPSK

Condition : Vertical

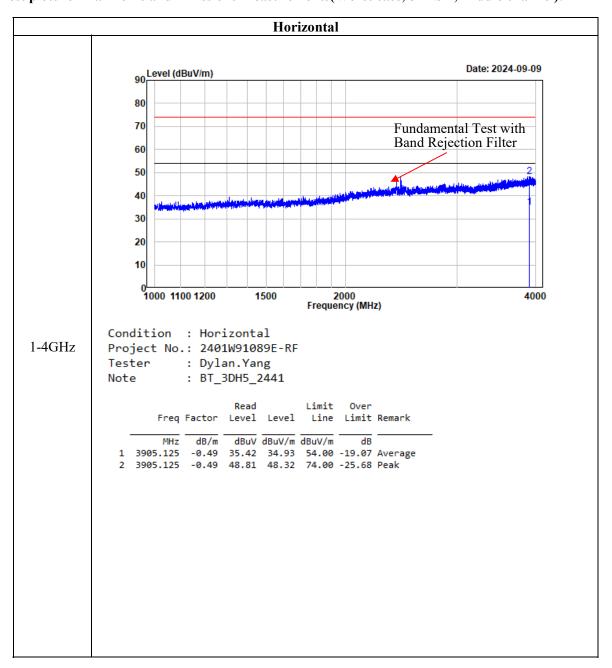
Project No.: 2401W91089E-RF Tester : Dylan.Yang Note : BT_3DH5_2480

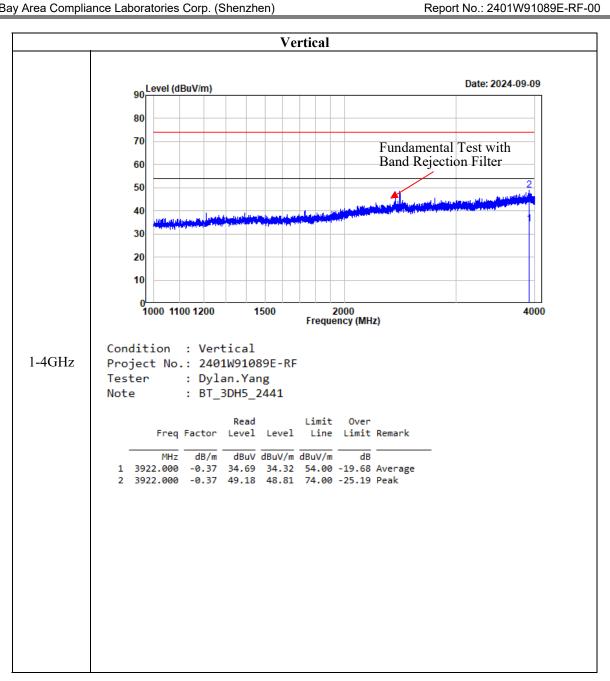
Read Limit Over
Freq Factor Level Level Line Limit Remark

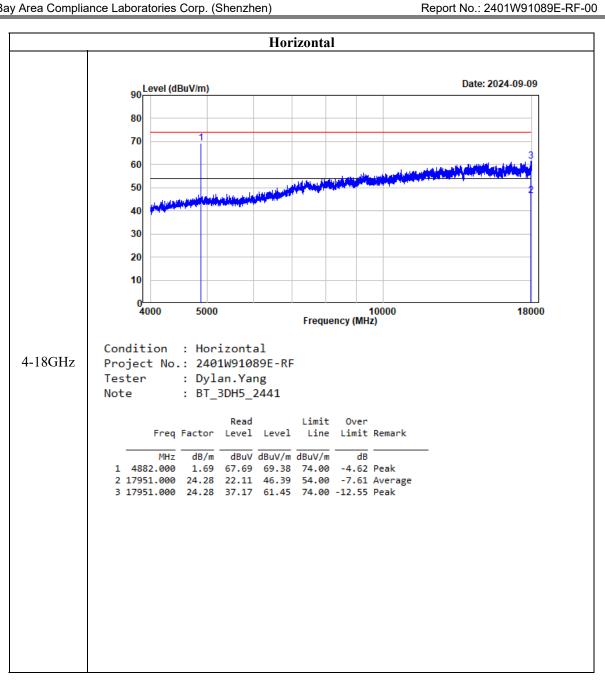
MHz dB/m dBuV dBuV/m dBuV/m dB

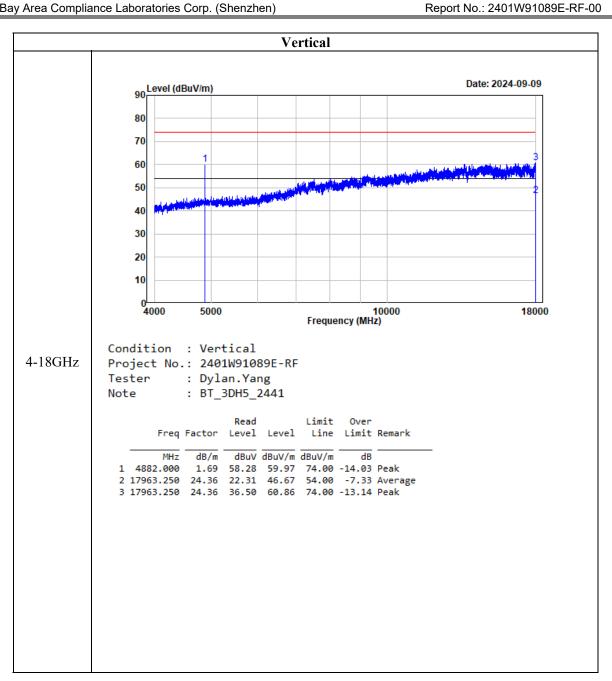
1 2499.275 -3.20 54.51 51.31 74.00 -22.69 peak

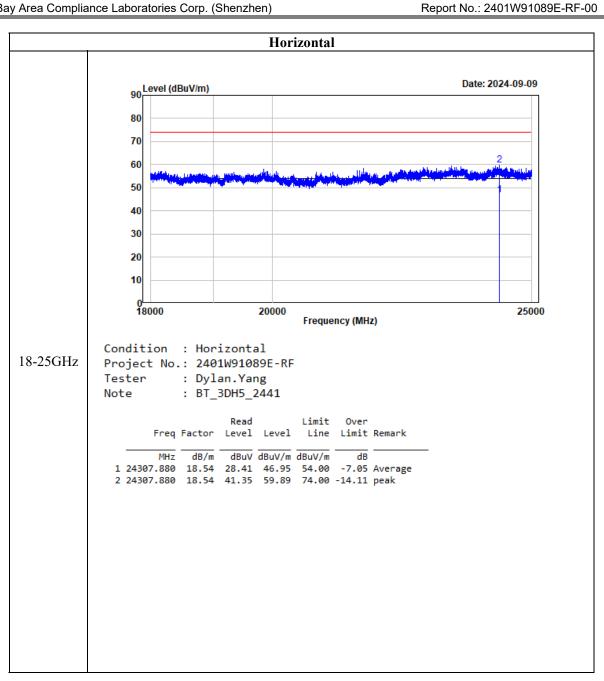
Test plots for Harmonic and Emissions Measurements(Worst case, 8DPSK, middle channel):

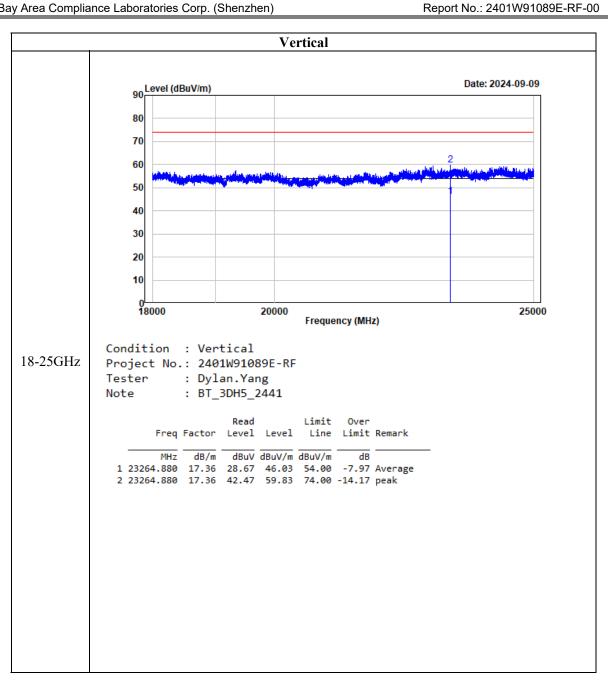












FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered 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.

Report No.: 2401W91089E-RF-00

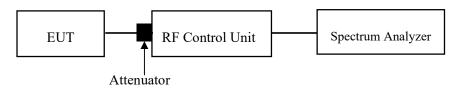
Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary
- to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

FCC §15.247(a) (1) - 20 dB EMISSION BANDWIDTH

Applicable Standard

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.

Report No.: 2401W91089E-RF-00

Test Procedure

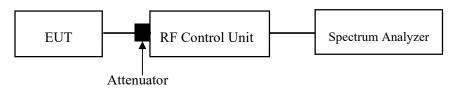
Test Method: ANSI C63.10-2013 Clause 7.8.7 & Clause 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an un-modulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the "-xx dB down amplitude" using [(reference value) xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an un-modulated carrier, then turn the EUT modulation on, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "– xx dB down amplitude" determined in step h). If a marker is below this "–xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "– xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

Report No.: 2401W91089E-RF-00

k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Environmental Conditions

Temperature:	25 °C	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

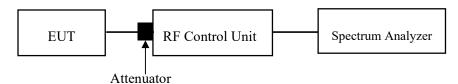
Report No.: 2401W91089E-RF-00

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.3

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) $VBW \ge RBW$.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.

It might prove necessary to break the span up into sub ranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels.



Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Report No.: 2401W91089E-RF-00

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

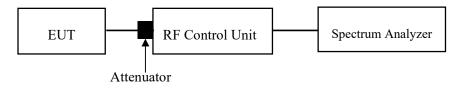
Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) =(number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.



Note 1: A period time=0.4*79=31.6(S), Result=Burst Width*Total hops

Note 2: Total hops=Hopping Number in 3.16s*10

Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

Report No.: 2401W91089E-RF-00

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), 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. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

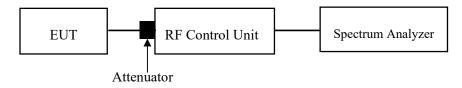
Report No.: 2401W91089E-RF-00

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

FCC §15.247(d) § 5.5 - BAND EDGES TESTING

Applicable Standard

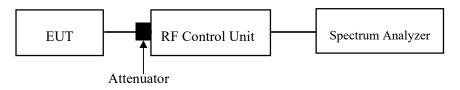
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

Report No.: 2401W91089E-RF-00

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.6 & Clause 6.10

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Navilite Cai on 2024-08-28.

EUT operation mode: Transmitting

Bay Area Compliance Laboratories Corp. (Shenzhen)	Report No.: 2401W91089E-RF-00
EUT PHOTOGRAPHS	
	104011/1010005 DEL
Please refer to the attachment 2401W91089E-RF External ph	oto and 2401 W91089E-RF Internal photo.

Bay Area Compliance Laboratories Corp. (Shenzhen)	Report No.: 2401W91089E-RF-00
TEST SETUP PHOTOGRAPHS	
	1.4
Please refer to the attachment 2401W91089E-RF Test Setup p	onoto.

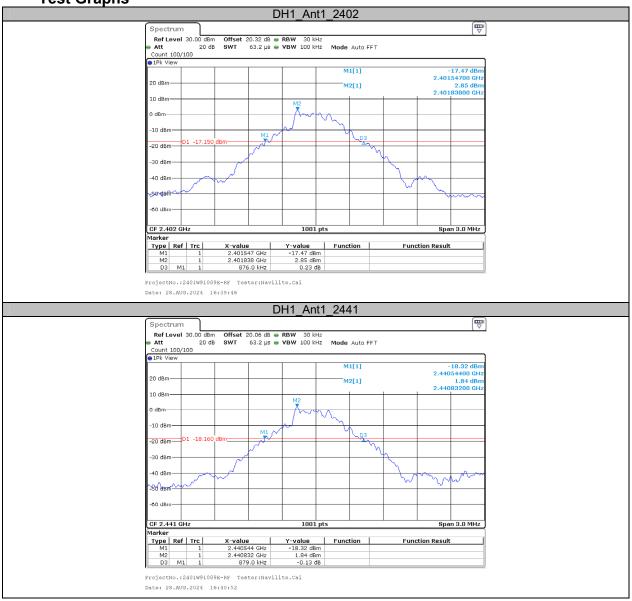
Appendix

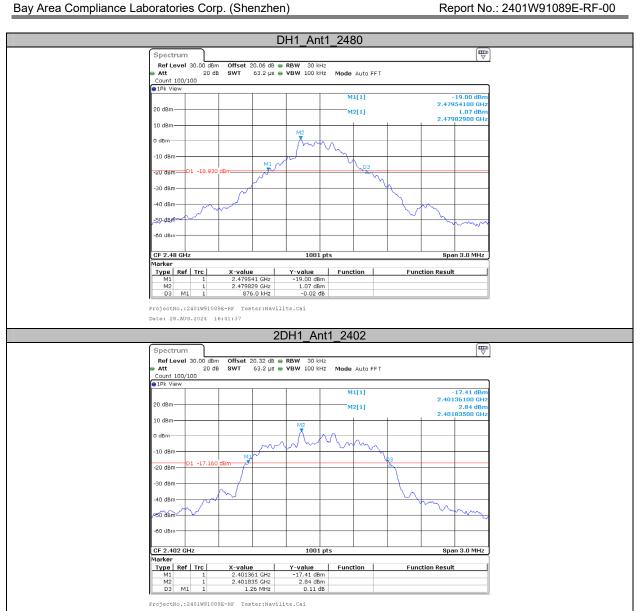
Appendix A: 20dB Emission Bandwidth

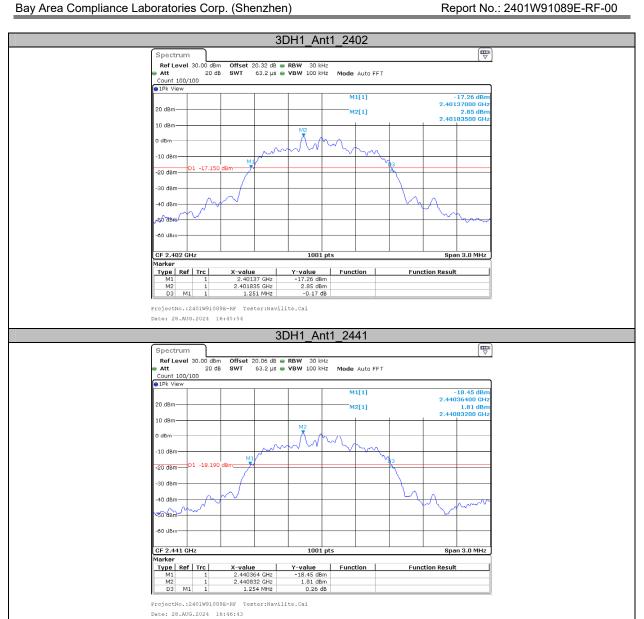
Test Result

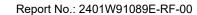
Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.876	2401.55	2402.42		
DH1	Ant1	2441	0.879	2440.54	2441.42		
		2480	0.876	2479.54	2480.42		
	2402	1.260	2401.36	2402.62			
2DH1	Ant1	2441	1.263	2440.36	2441.62		
		2480	1.263	2479.36	2480.62		
		2402	1.251	2401.37	2402.62		
3DH1	Ant1	2441	1.254	2440.36	2441.62		
		2480	1.248	2479.37	2480.62		

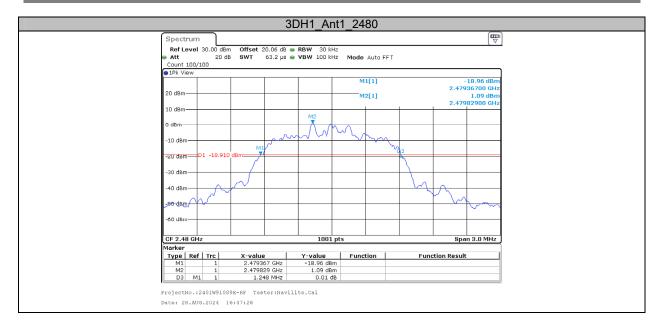
Report No.: 2401W91089E-RF-00











Appendix B: Occupied Channel Bandwidth

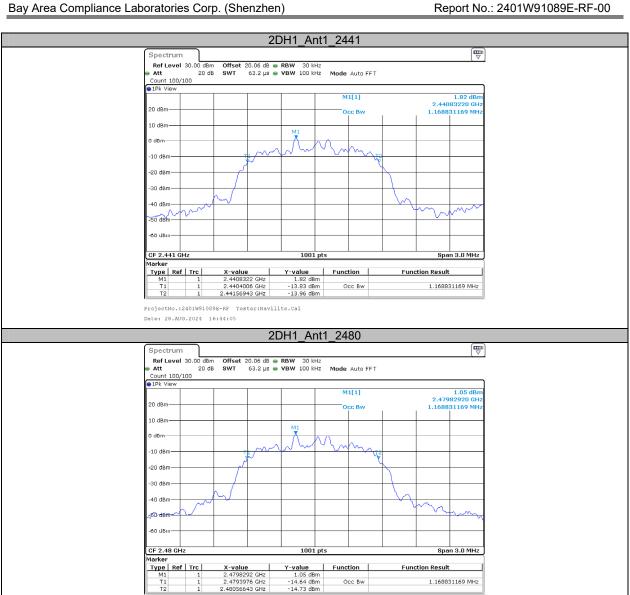
Test Result

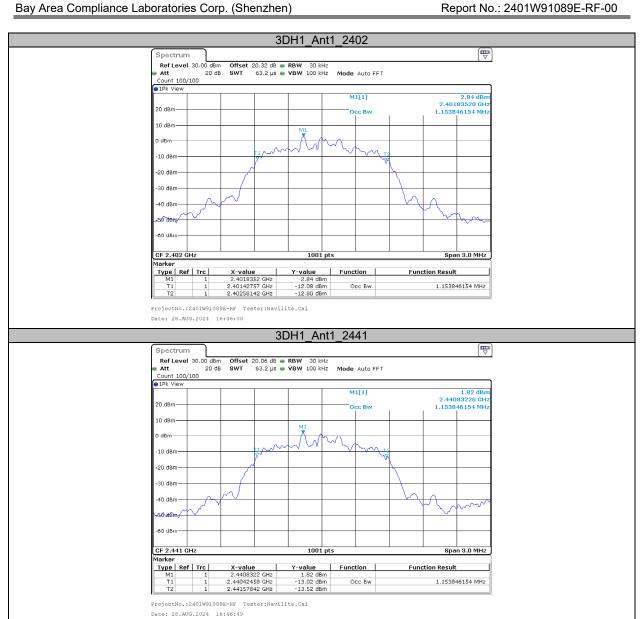
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.833	2401.574	2402.408		
DH1	Ant1	2441	0.830	2440.574	2441.405		
		2480	0.830	2479.571	2480.402		
		2402	1.169	2401.404	2402.572		
2DH1	Ant1	2441	1.169	2440.401	2441.569		
		2480	1.169	2479.398	2480.566		
		2402	1.154	2401.428	2402.581		
3DH1	Ant1	2441	1.154	2440.425	2441.578		
		2480	1.157	2479.419	2480.575		

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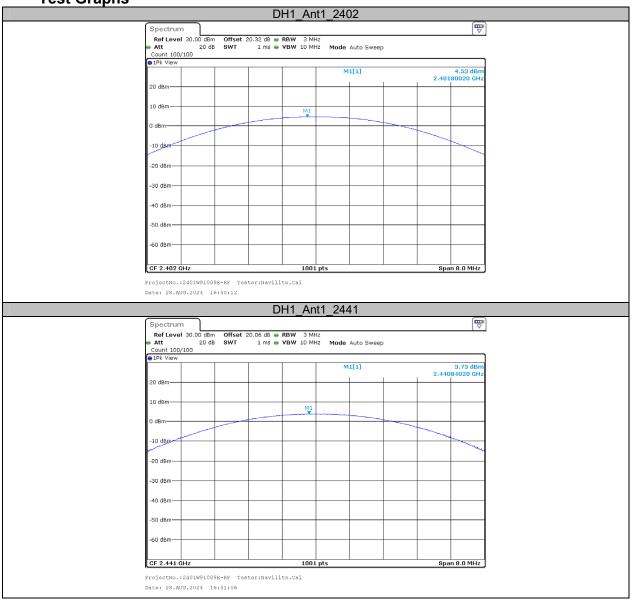
Date: 28.AUG.2024 16:47:31

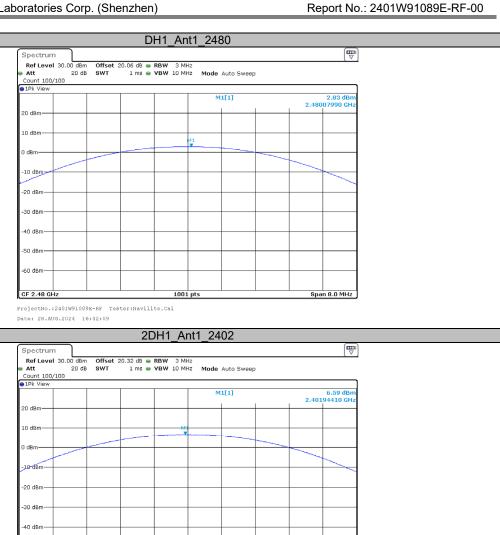
Appendix C: Maximum conducted Peak output power

Test Result

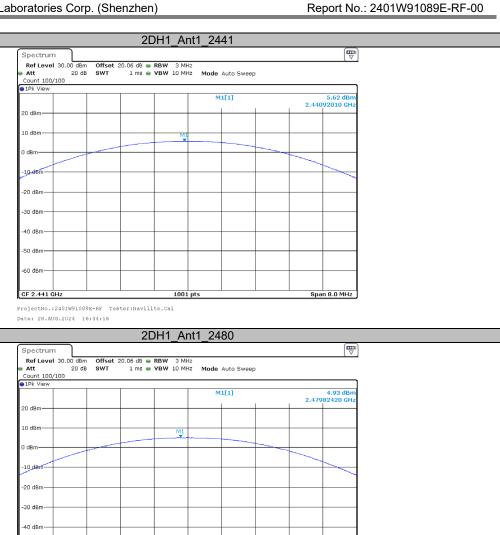
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
		2402	4.53	≤20.97	PASS
DH1	Ant1	2441	3.73	≤20.97	PASS
		2480	2.83	≤20.97	PASS
2DH1 A		2402	6.59	≤20.97	PASS
	Ant1	2441	5.62	≤20.97	PASS
		2480	4.93	≤20.97	PASS
		2402	7.39	≤20.97	PASS
3DH1	Ant1	2441	6.51	≤20.97	PASS
		2480	5.69	≤20.97	PASS

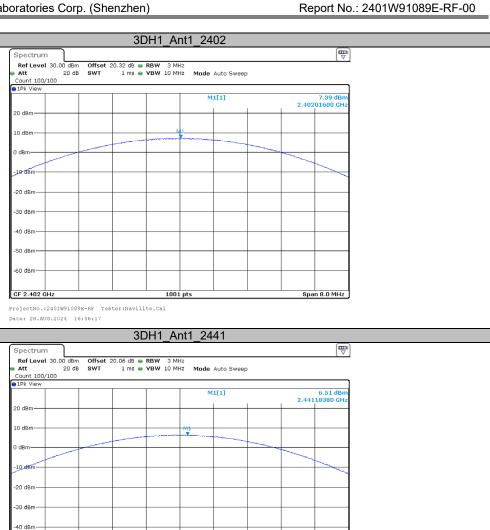
Report No.: 2401W91089E-RF-00

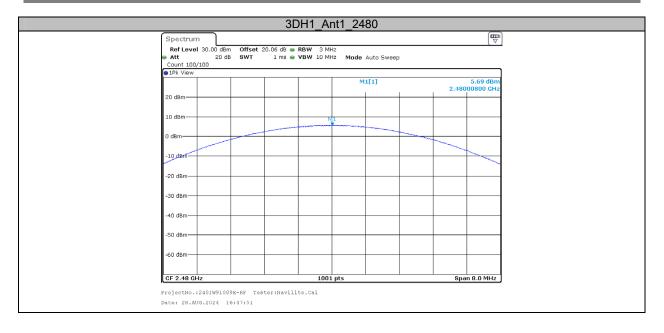




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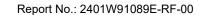
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.000	≥0.586	PASS
2DH1	Ant1	Нор	1.000	≥0.842	PASS
3DH1	Ant1	Нор	1.003	≥0.836	PASS

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Appendix E: Time of occupancy

Test Result

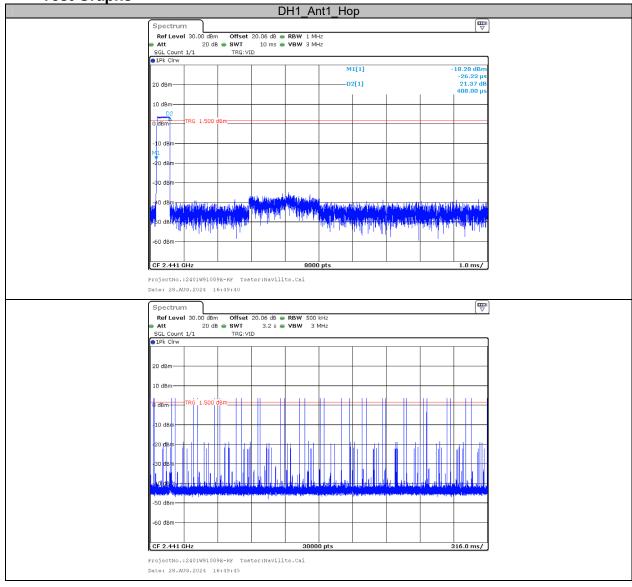
Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.408	330	0.135	≤0.4	PASS
DH3	Ant1	Нор	1.656	160	0.265	≤0.4	PASS
DH5	Ant1	Нор	2.898	110	0.319	≤0.4	PASS
2DH1	Ant1	Нор	0.418	320	0.134	≤0.4	PASS
2DH3	Ant1	Нор	1.661	170	0.282	≤0.4	PASS
2DH5	Ant1	Нор	2.903	130	0.377	≤0.4	PASS
3DH1	Ant1	Нор	0.418	320	0.134	≤0.4	PASS
3DH3	Ant1	Нор	1.660	160	0.266	≤0.4	PASS
3DH5	Ant1	Нор	2.904	130	0.378	≤0.4	PASS

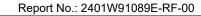
Report No.: 2401W91089E-RF-00

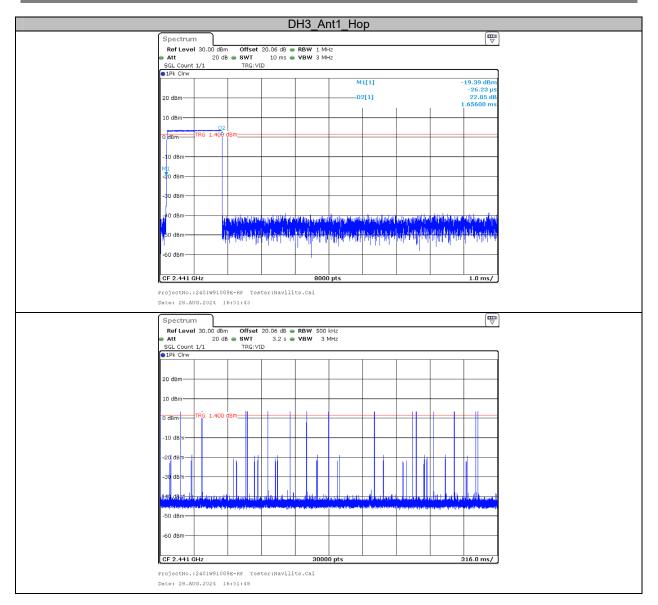
Note 1: A period time=0.4*79=31.6(S), Result=Burst Width*Total hops

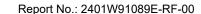
Note 2: Total hops=Hopping Number in 3.16s*10

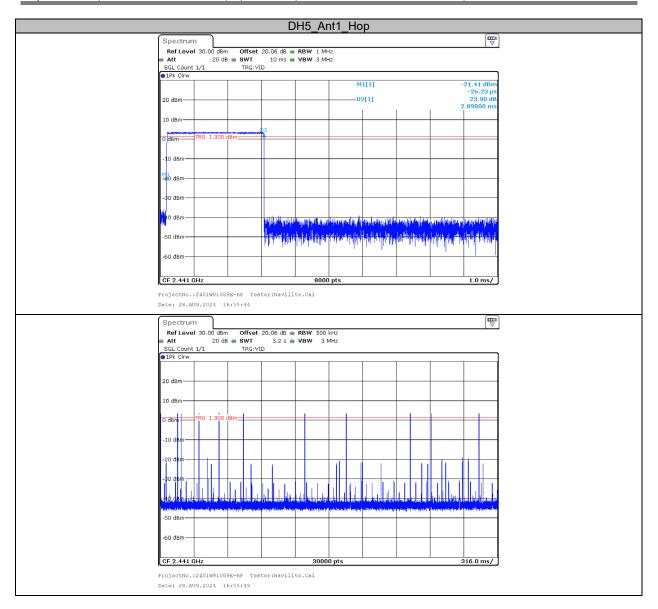
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

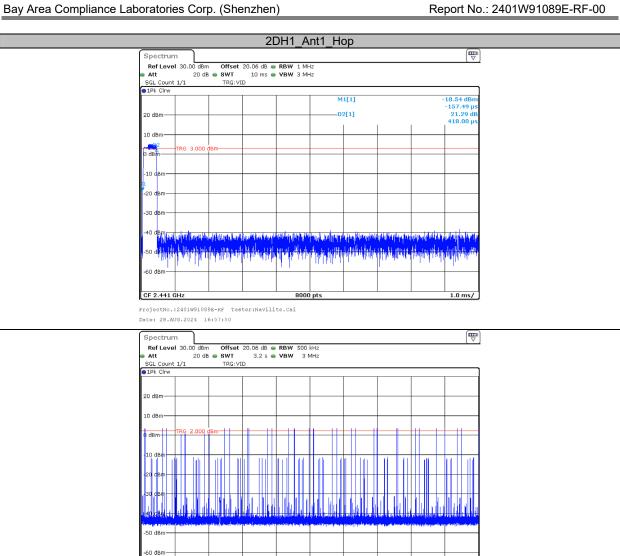








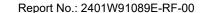


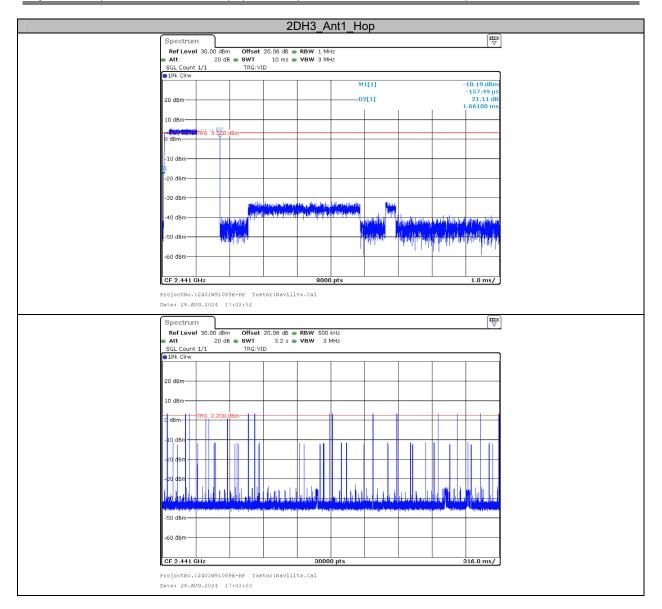


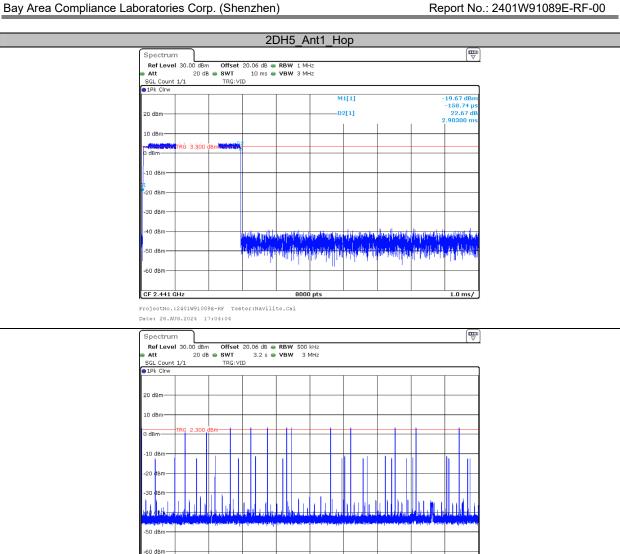
30000 pts

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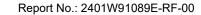


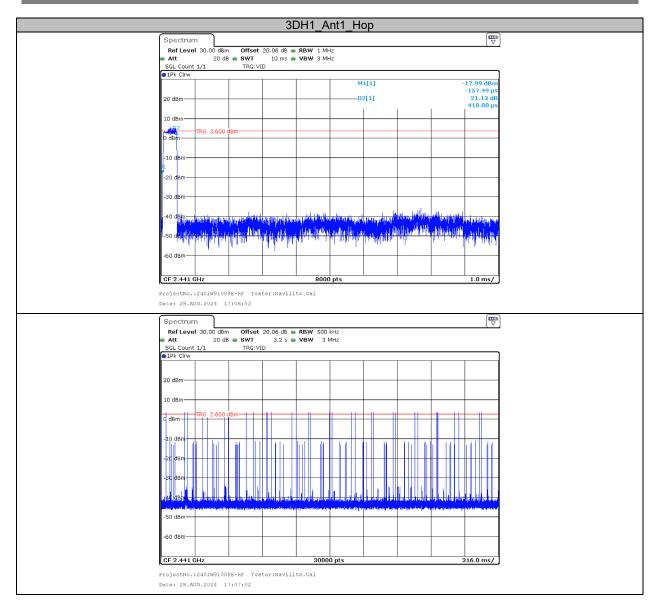


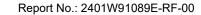


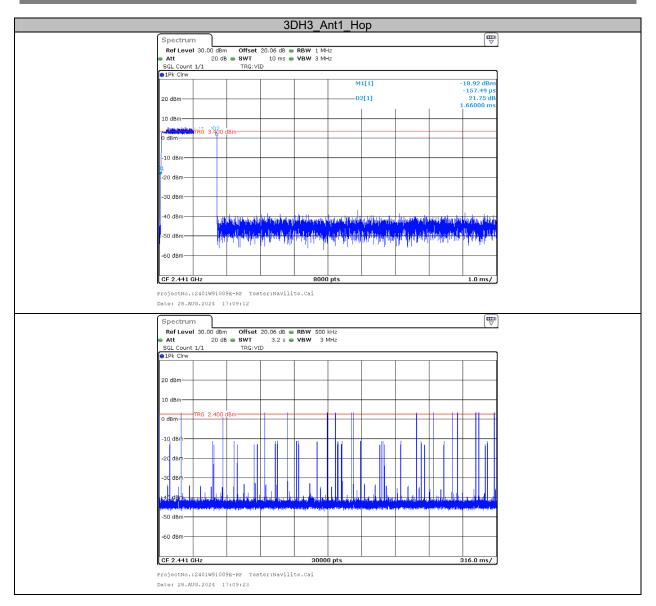
ProjectNo.:2401W91089E-RF Tester:Navilite.Cai

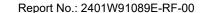
Date: 28.AUG.2024 17:04:15

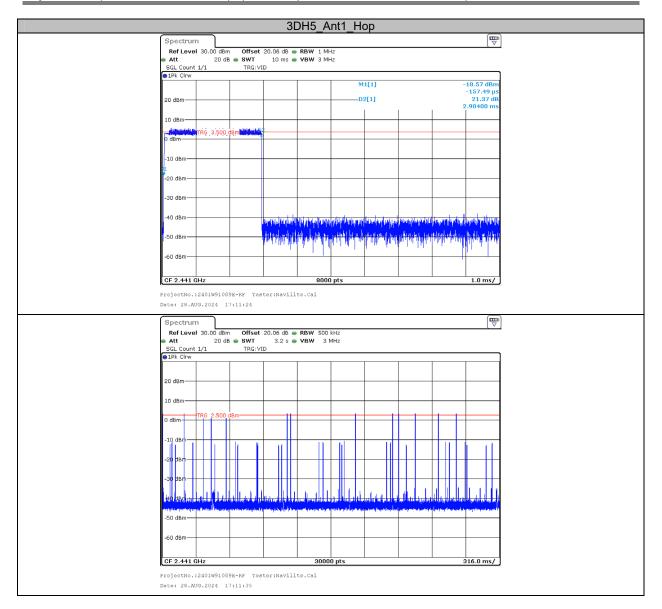












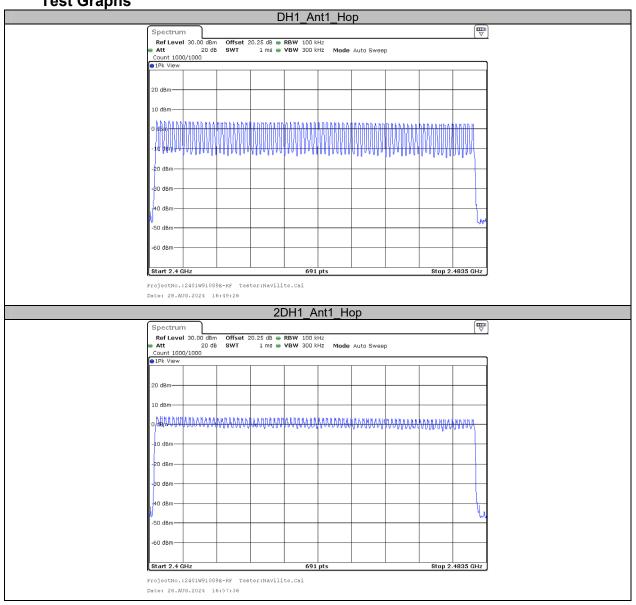
Appendix F: Number of hopping channels

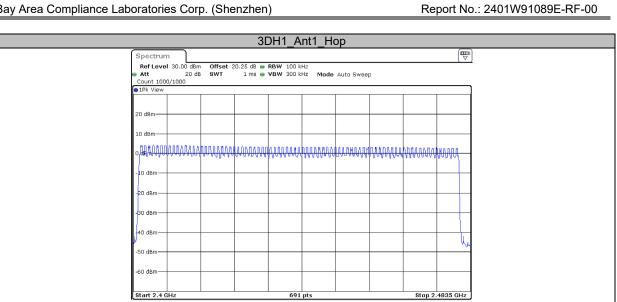
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	≥15	PASS
2DH1	Ant1	Нор	79	≥15	PASS
3DH1	Ant1	Нор	79	≥15	PASS

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Test Graphs



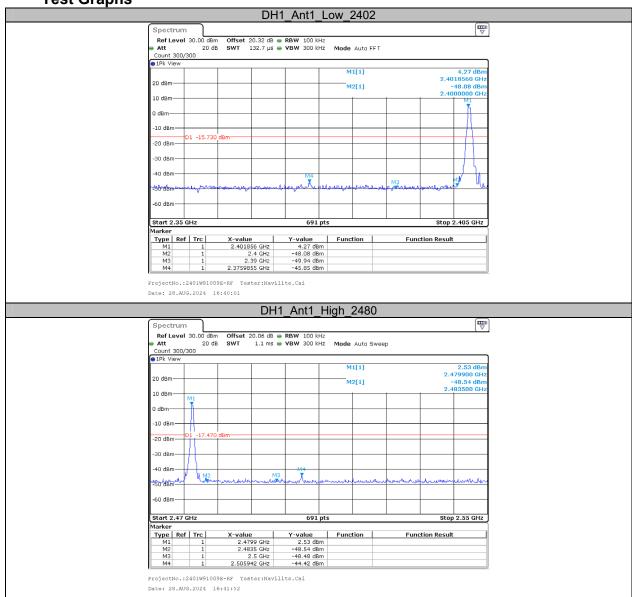


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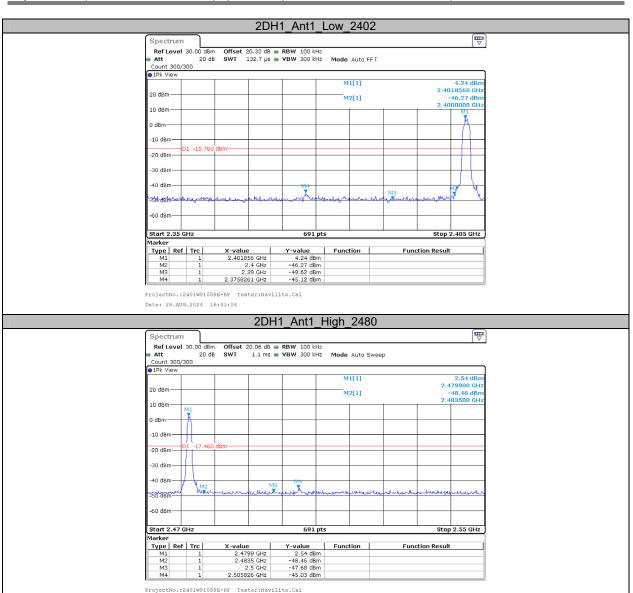
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Appendix G: Band edge measurements

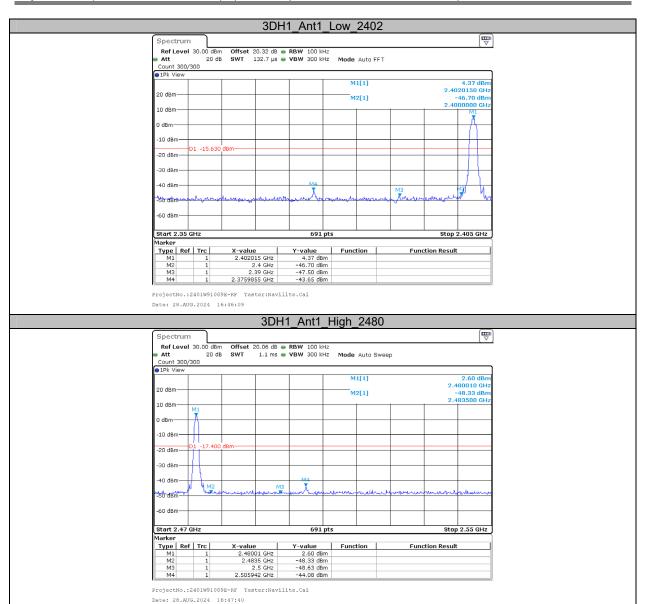
Test Graphs













***** END OF REPORT *****

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