





TEST REPORT

Applicant Name: Address: Kirisun Communication Co., Ltd. FCC:3rd Floor, Building A, Tongfang Information Habour, No.11 Langshan Road Nanshan District, Shenzhen 518057 China IC: 3rd Floor, Building A, Tongfang Information Habour, No.11 Langshan Road Nanshan Dist. Shenzhen 518057 China (Peoples Republic Of) SZ4231215-75913E-RF-00A Q5EDP58501 8922A-DP58501

Test Standard (s)

Report Number:

FCC ID:

IC:

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247 ISSUE 3, AUGUST 2023

Sample Description

Product Type:	DMR Two Way Radio
Model No.:	DP580
Multiple Model(s) No.:	DP585
Trade Mark:	KIRISUN
Date Received:	2023/12/15
Issue Date:	2024/04/07
Test Result:	Pass▲

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

Prepared and Checked By:

Black Chen

Black Chen RF Engineer

Approved By:

Name Wang

Nancy Wang RF 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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Bay Area Compliance Laboratories Corp. (Shenzhen)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ4231215-75913E-RF-00A	Original Report	2024/04/07

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	DP58001, DP58501
FVIN	V5.3.6.28
Product	DMR Two Way Radio
Tested Model	DP580
Multiple Model(s)	DP585
Frequency Range	Bluetooth: 2402-2480MHz
Transmit Power	9.45dBm
Modulation Technique	Bluetooth: GFSK, π/4-DQPSK, 8DPSK
Antenna Specification [#]	0dBi (provided by the applicant)
Voltage Range	DC7.4V form battery or DC 12V from charger base
Sample serial number	DP580: 2FAG-10 for Conducted and Radiated Emissions Test DP585: 2FAG-5 for Conducted and Radiated Emissions Test 2FAG-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: TPQ-236A120100UW01 Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 12.0V, 1.0A
Note: The Multiple mode refer to the declaration let	els are electrically identical with the test model except for screen and keyboard. Please tter [#] for more detail, which was provided by manufacturer.

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules and RSS-247 Issue 3, August 2023, RSS-GEN Issue 5, Feb. 2021Amendment 2 of the Innovation, Science and Economic Development Canada 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 and RSS-247 Issue 3, August 2023, RSS-GEN Issue 5, Feb. 2021Amendment 2 of the Innovation, Science and Economic Development Canada rules.

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 output power, conducted		onducted	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)		4.55dB(k=2, 95% level of confidence)
Radiated Emissions	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)
Radiated Emissions	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%

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.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

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

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

"FCC_v2.24.exe" 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

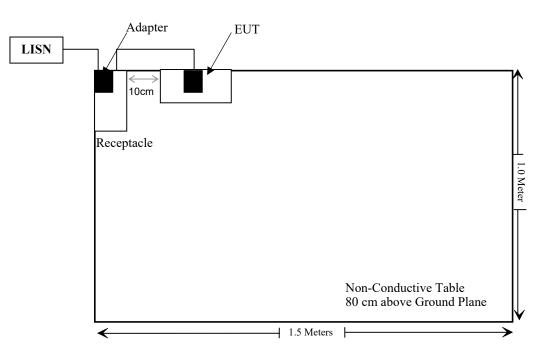
Manufacturer	Description Model		Serial Number	
/	/	/	/	

External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

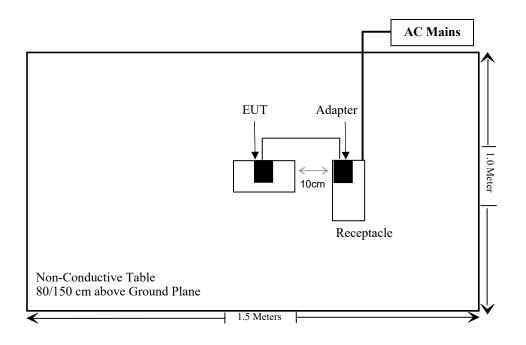
Block Diagram of Test Setup

For Conducted Emissions:



Report No.: SZ4231215-75913E-RF-00A

For Radiated Emissions:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§1.1307 ,§2.1093	RF Exposure	Compliant
RSS-102 § 6.3	Exemption Limits For Routine Evaluation- SAR Exemption Limits	Compliant
FCC §15.203 RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §15.207(a) RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d) RSS-247 § 5.5, RSS-GEN § 8.10	Radiated Emissions	Compliant
FCC §15.247(a)(1) RSS-247 § 5.1(a), RSS-GEN § 6.7	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 § 5.1 (b)	Channel Separation Test	Compliant
FCC §15.247(a)(1)(iii) RSS-247 § 5.1 (d)	Time of Occupancy (Dwell Time)	Compliant
FCC §15.247(a)(1)(iii) RSS-247 § 5.1 (d)	Quantity of hopping channel Test	Compliant
FCC §15.247(b)(1) RSS-247 § 5.1(b) &§ 5.4(b)	Peak Output Power Measurement	Compliant
FCC §15.247(d) RSS-247 § 5.5	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emission Test								
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2023/02/08	2024/02/07			
Rohde & Schwarz	LISN	LISN ENV216 101613 2023/02/08		2024/02/07				
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02			
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2023/08/03	2024/08/02			
Audix	EMI Test software	E3	191218	NCR	NCR			
	R	adiated Emissio	n Test					
R&S	EMI Test Receiver	ESR3	102455	2023/02/08	2024/02/07			
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07			
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19			
ETS	Passive Loop Antenna	6512	29604	2023/07/07	2024/07/06			
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02			
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02			
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR			
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17			
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28			
Schwarzbeck	Horn Anetenna	BBHA9120D(1201)	1143	2023/07/26	2024/07/25			
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07			
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07			
Unknown	RF Cable	XH750A-N	J-10M	2023/10/08	2024/10/07			
SNSD	2.4G Band Reject filter	BSF2402- 2480MN- 0898-001	2.4G filter	2023/08/03	2024/08/02			
Audix	EMI Test software	E3	191218(V9)	NCR	NCR			
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/03	2024/08/02			
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17			
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02			
		RF Conducted	Test					
Tonscend	RF control Unit	JS0806-2	19D8060154	2023/09/06	2024/09/05			
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2024/02/07	2025/02/06			
Micro-Tronics	RF Cable	8082135	W1113	2023/07/04	2024/07/03			

* **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) (1) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt[n]{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max tune-up conducted power [#] (dBm)	Max tune-up conducted power [#] (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BT	2402-2480	9.5	8.91	25	0.6	3	Yes



Result: Compliant

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RSS-102 § 6.3 – EXEMPTION LIMITS FOR ROUTINE EVALUATION- SAR EXEMPTION LIMITS

Applicable Standard

According to RSS-102 Issue 6 §6.3, Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Frequency (MHz)	≤ 5 mm (mW)	10 mm (m₩)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

The exemption limits in table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 Table 11 are multiplied by a factor of 5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 11, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1mW, regardless of frequency.

The SAR levels from exempted transmitters shall be included in the compliance assessment and the determination of the TER. Detailed guidance is included in sections 7.1.8 and 8.2.2.1.

Test Result:

For worst case:

For BT mode:

The higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power:



The minimum distance at the far end is 25mm, so the exemption limit of 2450MHz is P= 56mW.

The maximum tune up conducted power is 9.5dBm

The antenna gain# is 0dBi

So the maximum output power is 9.5dBm (8.91mW), which less than 56mW@2450MHz exemption limit

So the stand-alone SAR test is not required.

FCC §15.203 & RSS-GEN §6.8 – 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.

According to FCC § 15.203, the applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one internal antenna arrangement which was permanently attached for Bluetooth and the maximum antenna gain[#] is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range		
Wire	0dBi	50Ω	2.4~2.5GHz		

Result: Compliant

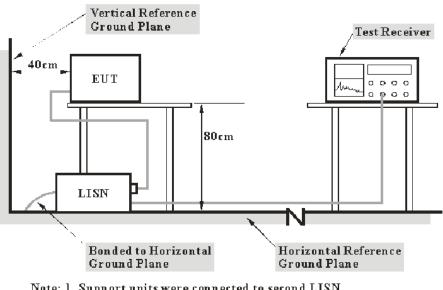
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FCC §15.207 (a) & RSS-GEN § 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), RSS-GEN § 8.8

EUT Setup



Note: 1. Support units were connected to second LISN.
2. 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 & RSS-Gen.

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.

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Factor & Over Limit Calculation

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

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

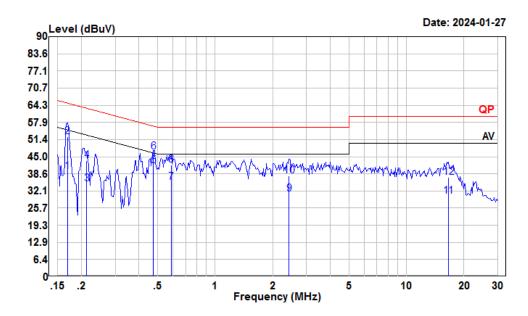
Temperature:	25~27 °C
Relative Humidity:	33~54 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-01-27.

EUT operation mode: Transmitting (Maximum output mode, 8DPSK low channel)

For Model: DP580

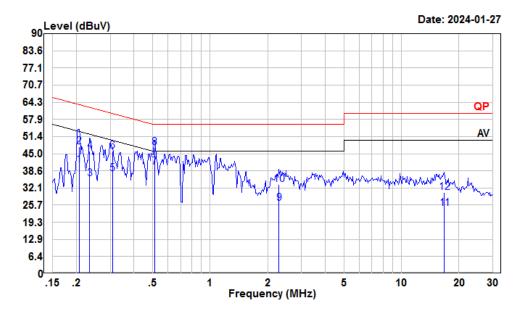
AC 120V/60 Hz, Line



Condition:	Line
Project :	SZ4231215-75913E-RF
Tester :	Macy shi
Note :	BT

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	18.81	39.56	10.60	10.15	55.03	-15.47	Average
2	0.17	31.81	52.56	10.60	10.15	65.03	-12.47	QP
3	0.21	14.20	34.93	10.61	10.12	53.10	-18.17	Average
4	0.21	22.92	43.65	10.61	10.12	63.10	-19.45	QP
5	0.48	20.67	41.53	10.69	10.17	46.41	-4.88	Average
6	0.48	25.87	46.73	10.69	10.17	56.41	-9.68	QP
7	0.59	14.48	35.39	10.70	10.21	46.00	-10.61	Average
8	0.59	20.91	41.82	10.70	10.21	56.00	-14.18	QP
9	2.44	10.12	31.07	10.74	10.21	46.00	-14.93	Average
10	2.44	16.98	37.93	10.74	10.21	56.00	-18.07	QP
11	16.57	9.57	30.17	10.50	10.10	50.00	-19.83	Average
12	16.57	16.68	37.28	10.50	10.10	60.00	-22.72	QP

AC 120V/60 Hz, Neutral

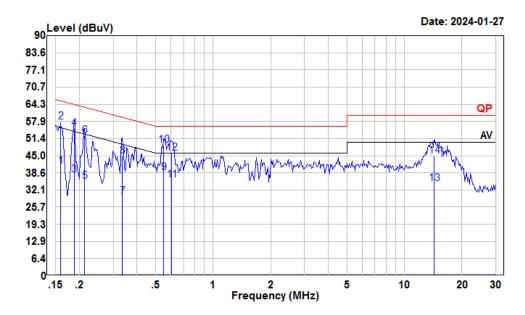


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Condition: Neutral
Project : SZ4231215-75913E-RF
Tester : Macy shi
Note : BT
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	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.21	20.11	40.91	10.70	10.10	53.36	-12.45	Average
2	0.21	26.81	47.61	10.70	10.10	63.36	-15.75	QP
3	0.23	14.82	35.71	10.72	10.17	52.30	-16.59	Average
4	0.23	24.99	45.88	10.72	10.17	62.30	-16.42	QP
5	0.31	16.71	37.59	10.75	10.13	50.02	-12.43	Average
6	0.31	25.11	45.99	10.75	10.13	60.02	-14.03	QP
7	0.51	19.02	39.96	10.78	10.16	46.00	-6.04	Average
8	0.51	26.49	47.43	10.78	10.16	56.00	-8.57	QP
9	2.29	5.36	26.26	10.70	10.20	46.00	-19.74	Average
10	2.29	12.60	33.50	10.70	10.20	56.00	-22.50	QP
11	16.75	3.72	24.44	10.62	10.10	50.00	-25.56	Average
12	16.75	9.78	30.50	10.62	10.10	60.00	-29.50	QP

For Model: DP585

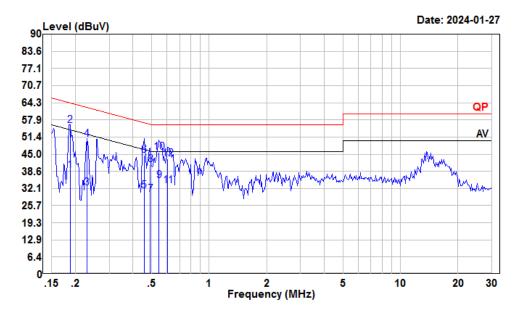
AC 120V/60 Hz, Line



Condition:		Line
Project :		SZ4231215-75913E-RF
Tester :		Macy shi
Note :		BT

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	20.30	41.05	10.60	10.15	55.47	-14.42	Average
2	0.16	36.80	57.55	10.60	10.15	65.47	-7.92	QP
3	0.19	17.12	37.84	10.60	10.12	54.15	-16.31	Average
4	0.19	34.50	55.22	10.60	10.12	64.15	-8.93	QP
5	0.21	14.76	35.49	10.61	10.12	53.10	-17.61	Average
6	0.21	31.76	52.49	10.61	10.12	63.10	-10.61	QP
7	0.34	8.92	29.73	10.66	10.15	49.31	-19.58	Average
8	0.34	23.97	44.78	10.66	10.15	59.31	-14.53	QP
9	0.55	17.60	38.49	10.70	10.19	46.00	-7.51	Average
10	0.55	28.17	49.06	10.70	10.19	56.00	-6.94	QP
11	0.61	15.10	36.02	10.70	10.22	46.00	-9.98	Average
12	0.61	25.10	46.02	10.70	10.22	56.00	-9.98	QP
13	14.29	13.95	34.49	10.42	10.12	50.00	-15.51	Average
14	14.29	24.37	44.91	10.42	10.12	60.00	-15.09	QP

AC 120V/60 Hz, Neutral



Condition:		Neutral				
Project :	:	SZ4231215-75913E-RF				
Tester	:	Macy shi				
Note	:	BT				

		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz		dBuV	dB	dB	dBuV	dB	
1	0.19	18.29	38.86	10.45	10.12	54.15	-15.29	Average
2	0.19	35.29	55.86	10.45	10.12	64.15	-8.29	QP
3	0.23	11.74	32.34	10.44	10.16	52.48	-20.14	Average
4	0.23	29.90	50.50	10.44	10.16	62.48	-11.98	QP
5	0.46	10.39	31.24	10.67	10.18	46.76	-15.52	Average
6	0.46	23.85	44.70	10.67	10.18	56.76	-12.06	QP
7	0.49	9.10	29.95	10.69	10.16	46.14	-16.19	Average
8	0.49	20.20	41.05	10.69	10.16	56.14	-15.09	QP
9	0.55	14.28	35.16	10.70	10.18	46.00	-10.84	Average
10	0.55	24.87	45.75	10.70	10.18	56.00	-10.25	QP
11	0.61	12.20	33.12	10.70	10.22	46.00	-12.88	Average
12	0.61	22.30	43.22	10.70	10.22	56.00	-12.78	QP

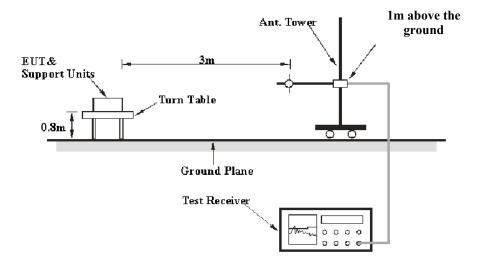
FCC §15.209, §15.205 & §15.247(D) & RSS-247§ 5.5 - SPURIOUS EMISSIONS

Applicable Standard

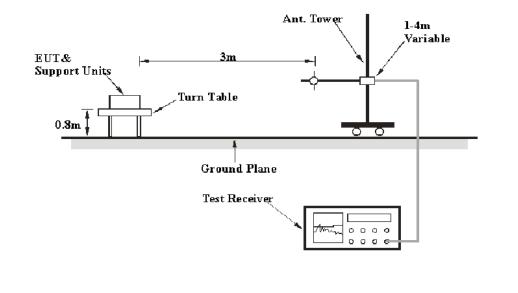
FCC §15.205; §15.209; §15.247(d); RSS-247§ 5.5; RSS-GEN § 8.10

EUT Setup

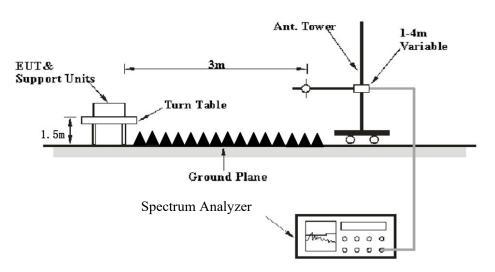
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247, RSS-247, RSS-Gen 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 кпz — 130 кпz	300 Hz	1 kHz	/	РК
150 kHz – 30 MHz	/	/	9 kHz	QP
130 kHz - 30 WHz	10 kHz	30 kHz	/	РК
30 MHz – 1000 MHz	/	/	120 kHz	QP
30 MHZ – 1000 MHZ	100 kHz	300 kHz	/	РК
Above 1 GHz	1MHz	3 MHz	/	РК
Above I GHZ	1MHz	10 Hz	/	AV

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.

Test Procedure

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

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.

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:	22~25.1 °C
Relative Humidity:	51~55 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-01-26 for below 1GHz and Dylan Yang from 2024-02-27 to 2024-03-11 for above 1GHz.

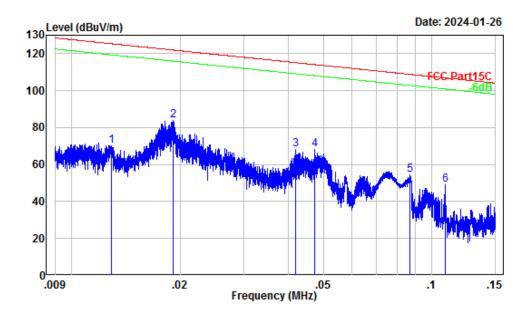
EUT operation mode: Transmitting

Note: After pre-scan in the X, Y and Z axes of orientation, the worst case as below:

For Model: DP580

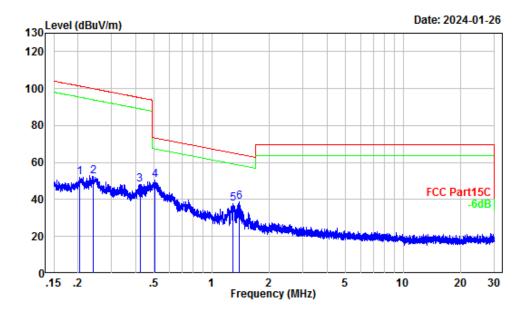
9 kHz - 30MHz(Maximum output mode EDR (8DPSK) low channel):

Parallel (worst case)



:	chamber
:	Зm
mber:	SZ4231215-75913E-RF
:	BT
:	Warren Huang
	mber:

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	52.40	17.89	70.29	125.37	-55.08	Peak
2	0.02	50.50	33.45	83.95	121.96	-38.01	Peak
3	0.04	43.49	24.59	68.08	115.16	-47.08	Peak
4	0.05	41.85	26.53	68.38	114.12	-45.74	Peak
5	0.09	35.94	18.42	54.36	108.82	-54.46	Peak
6	0.11	33.68	15.42	49.10	106.87	-57.77	Peak

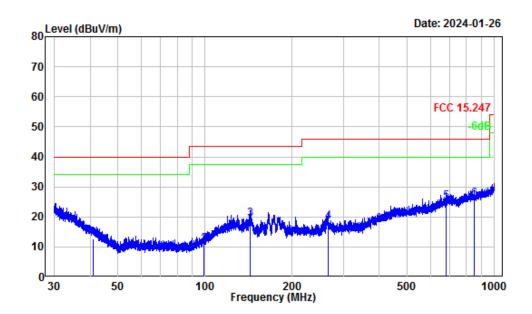


Site	:	chamber
Condition	:	Зm
Project Number:	:	SZ4231215-75913E-RF
Note	:	BT
Tester	:	Warren Huang

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	28.80	23.07	51.87	101.36	-49.49	Peak
2	0.24	27.54	25.18	52.72	99.97	-47.25	Peak
3	0.42	22.04	26.25	48.29	95.10	-46.81	Peak
4	0.51	20.87	29.63	50.50	73.51	-23.01	Peak
5	1.29	14.02	23.56	37.58	65.23	-27.65	Peak
6	1.40	13.47	25.23	38.70	64.50	-25.80	Peak

30MHz-1GHz: (*Maximum output mode EDR (8DPSK) low channel*)

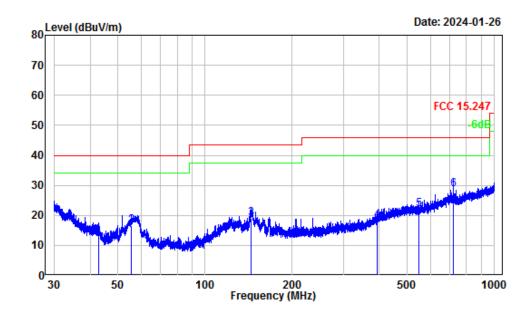
Horizontal



Site :	chamber
Condition :	3m Horizontal
Project Number:	SZ4231215-75913E-RF
Note :	BT
Tester :	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.11	-11.10	23.79	12.69	40.00	-27.31	QP
	98.88	-14.04	24.84	10.80	43.50	-32.70	QP
3	143.33	-10.94	30.11	19.17	43.50	-24.33	QP
4	265.79	-11.25	29.66	18.41	46.00	-27.59	QP
5	680.56	-1.88	26.97	25.09	46.00	-20.91	QP
6	849.54	0.18	25.75	25.93	46.00	-20.07	QP





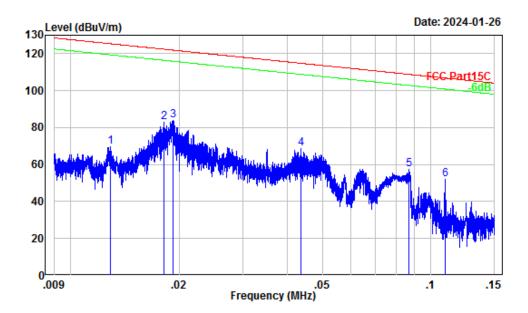
Site :	chamber
Condition :	3m Vertical
Project Number:	SZ4231215-75913E-RF
Note :	BT
Tester :	Warren Huang

					Limit		
	Freq	Factor	Level	Level	Line	Limit	Remark
-				10.11/	10.11/		
		dB/m		-	-		
1	42.67	-13.41	26.91	13.50	40.00	-26.50	QP
2	55.71	-17.53	34.11	16.58	40.00	-23.42	QP
3	144.27	-11.47	30.61	19.14	43.50	-24.36	QP
4		-7.93	26.22	18.29	46.00	-27.71	QP
5	548.30	-4.88	26.80	21.92	46.00	-24.08	QP
6	722.36	-2.02	30.84	28.82	46.00	-17.18	QP

For Model: DP585

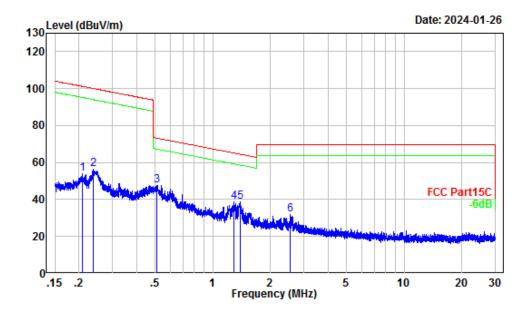
9 kHz - 30MHz (Maximum output mode EDR (8DPSK) low channel):

Parallel (worst case)



Site	:	Chamber A
Condition	:	Зm
Project Numbe	er:	SZ4231215-75913E-RF
Note	:	BT
Tester	:	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	52.41	17.31	69.72	125.39	-55.67	Peak
2	0.02	50.80	32.14	82.94	122.42	-39.48	Peak
3	0.02	50.47	33.43	83.90	121.92	-38.02	Peak
4	0.04	43.00	25.48	68.48	114.83	-46.35	Peak
5	0.09	35.92	21.53	57.45	108.82	-51.37	Peak
6	0.11	33.65	18.12	51.77	106.82	-55.05	Peak

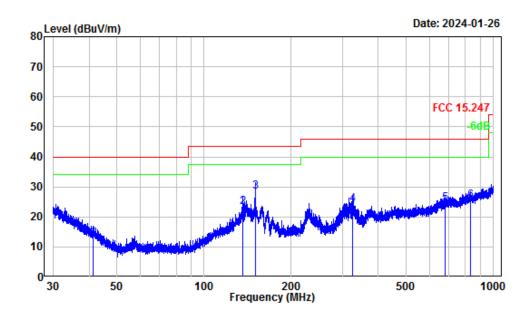


Site	:	Chamber A
Condition	:	3m
Project Number	•:	SZ4231215-75913E-RF
Note	:	BT
Tester	:	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	28.70	25.13	53.83	101.23	-47.40	Peak
2	0.24	27.64	28.74	56.38	100.08	-43.70	Peak
3	0.51	20.82	26.81	47.63	73.44	-25.81	Peak
4	1.29	14.01	24.77	38.78	65.21	-26.43	Peak
5	1.39	13.51	25.07	38.58	64.56	-25.98	Peak
6	2.55	9.17	22.70	31.87	69.54	-37.67	Peak

30MHz-1GHz: (*Maximum output mode EDR (8DPSK) low channel*)

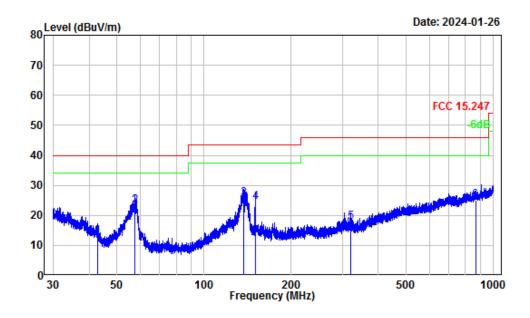
Horizontal



Site :	Chamber A
Condition :	3m Horizontal
Project Number:	SZ4231215-75913E-RF
Note :	BT
Tester :	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.35	-11.25	24.28	13.03	40.00	-26.97	QP
2	136.40	-10.56	33.79	23.23	43.50	-20.27	QP
3	150.01	-11.35	39.66	28.31	43.50	-15.19	QP
4		-9.91	34.05	24.14	46.00	-21.86	QP
5	679.96	-1.89	26.34	24.45	46.00	-21.55	QP
6	835.51	-0.02	25.40	25.38	46.00	-20.62	QP





Site	:	Cha	amber A
Conditio	on :	Зm	n Vertical
Project	Number:	SZ4	4231215-75913E-RF
Note	:	ВΤ	-
Tester	:	War	nren Huang

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.71	-13.43	26.49	13.06	40.00	-26.94	QP
2	57.62	-17.56	40.95	23.39	40.00	-16.61	QP
3	136.82	-11.16	36.84	25.68	43.50	-17.82	QP
4	150.01	-11.65	36.20	24.55	43.50	-18.95	QP
5	320.64	-10.27	28.07	17.80	46.00	-28.20	QP
6	866.85	0.13	24.83	24.96	46.00	-21.04	QP

Report No.: SZ4231215-75913E-RF-00A

Above 1GHz (DP580 was worst case):

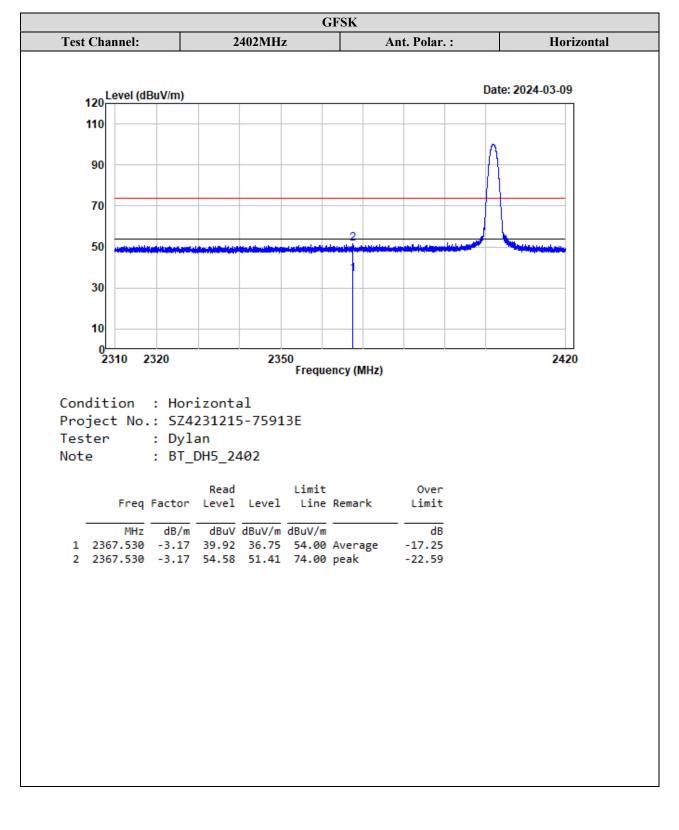
	Receiver				Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			GFSK				
			Low Channel 2402MHz				
4804.00	55.51	PK	Н	2.42	57.93	74	-16.07
4804.00	45.68	AV	Н	2.42	48.10	54	-5.90
4804.00	53.81	PK	V	2.42	56.23	74	-17.77
4804.00	44.62	AV	V	2.42	47.04	54	-6.96
			Middle Channel 2441MHz	z		•	
4882.00	55.56	РК	Н	2.58	58.14	74	-15.86
4882.00	45.47	AV	Н	2.58	48.05	54	-5.95
4882.00	53.93	PK	V	2.58	56.51	74	-17.49
4882.00	44.09	AV	V	2.58	46.67	54	-7.33
			High Channel 2480MHz	•		•	
4960.00	54.44	РК	Н	2.68	57.12	74	-16.88
4960.00	43.63	AV	Н	2.68	46.31	54	-7.69
4960.00	52.64	РК	V	2.68	55.32	74	-18.68
4960.00	42.88	AV	V	2.68	45.56	54	-8.44
			π/4-DQPSK	•		•	
			Low Channel 2402MHz				
4804.00	53.62	РК	Н	2.42	56.04	74	-17.96
4804.00	42.53	AV	Н	2.42	44.95	54	-9.05
4804.00	52.48	РК	V	2.42	54.90	74	-19.10
4804.00	42.27	AV	V	2.42	44.69	54	-9.31
•			Middle Channel 2441MHz	Z		I	
4882.00	55.55	РК	Н	2.58	58.13	74	-15.87
4882.00	43.37	AV	Н	2.58	45.95	54	-8.05
4882.00	52.24	РК	V	2.58	54.82	74	-19.18
4882.00	42.16	AV	V	2.58	44.74	54	-9.26
		1	High Channel 2480MHz			I	
4960.00	55.83	РК	Н	2.68	58.51	74	-15.49
4960.00	43.68	AV	Н	2.68	46.36	54	-7.64
4960.00	52.87	РК	V	2.68	55.55	74	-18.45
4960.00	42.66	AV	V	2.68	45.34	54	-8.66

Report No.: SZ4231215-75913E-RF-00A

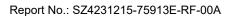
	Receiver				Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			8DPSK				
			Low Channel 2402MHz				
4804.00	53.89	PK	Н	2.42	56.31	74	-17.69
4804.00	41.88	AV	Н	2.42	44.30	54	-9.70
4804.00	52.64	PK	V	2.42	55.06	74	-18.94
4804.00	40.69	AV	V	2.42	43.11	54	-10.89
			Middle Channel 2441MHz				
4882.00	55.23	PK	Н	2.58	57.81	74	-16.19
4882.00	43.66	AV	Н	2.58	46.24	54	-7.76
4882.00	53.95	PK	V	2.58	56.53	74	-17.47
4882.00	43.21	AV	V	2.58	45.79	54	-8.21
			High Channel 2480MHz				
4960.00	55.61	PK	Н	2.68	58.29	74	-15.71
4960.00	44.35	AV	Н	2.68	47.03	54	-6.97
4960.00	53.91	PK	V	2.68	56.59	74	-17.41
4960.00	43.82	AV	V	2.68	46.50	54	-7.50

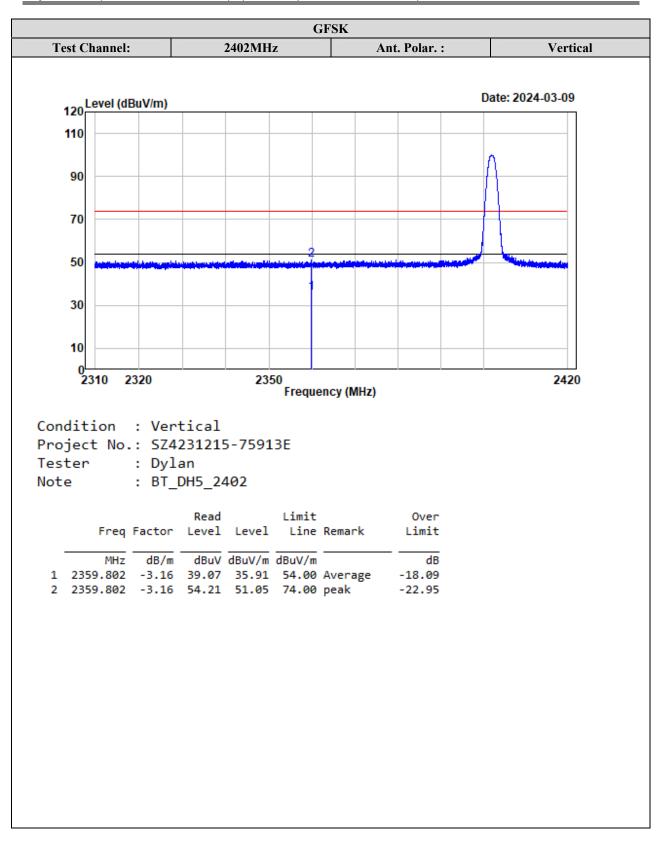
Report No.: SZ4231215-75913E-RF-00A



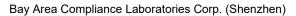


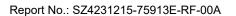
TR-EM-RF009

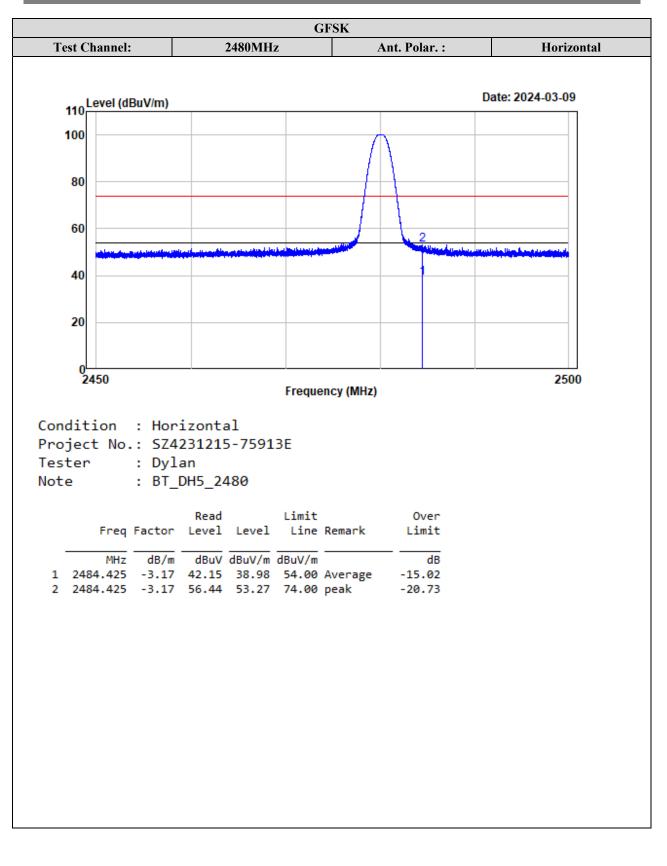


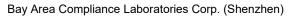


TR-EM-RF009

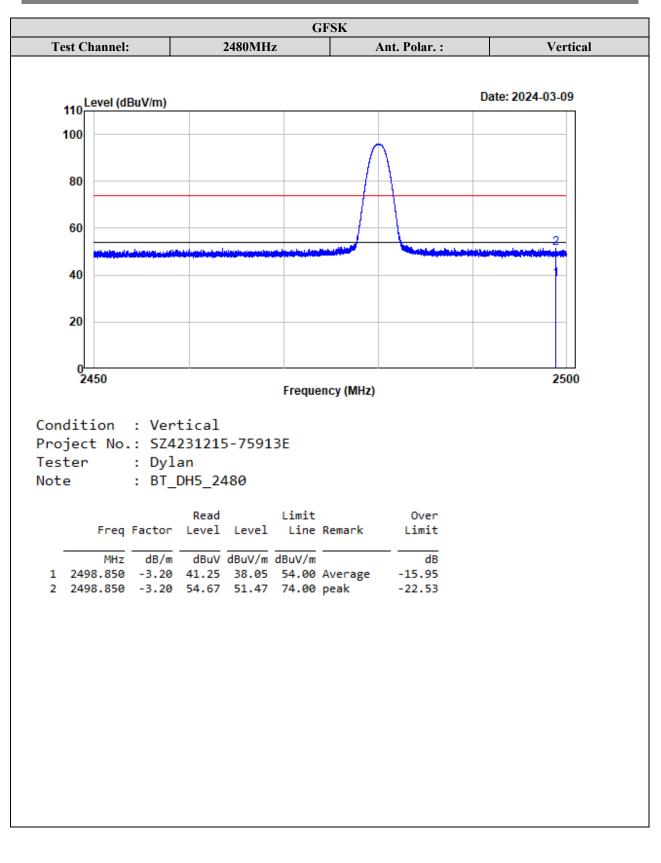




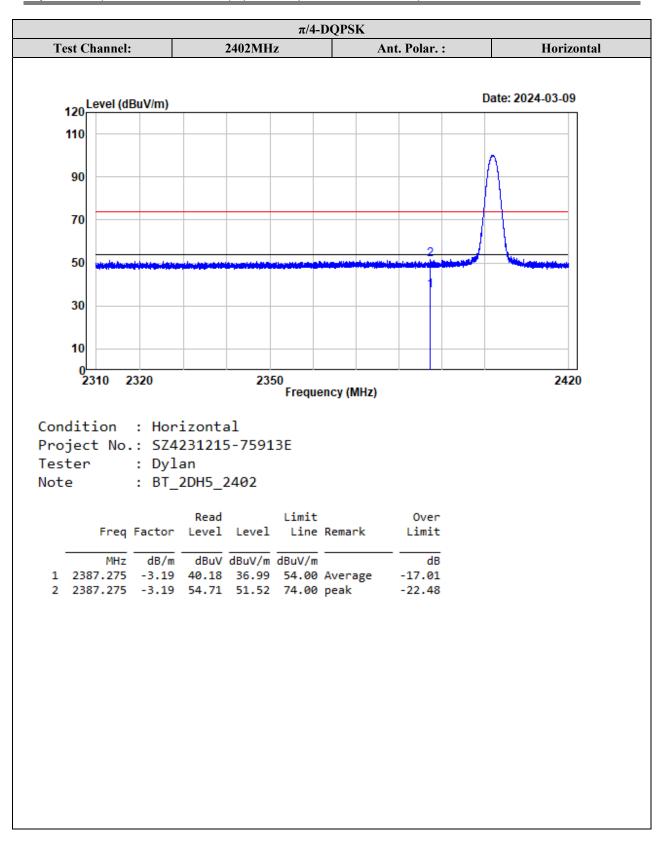




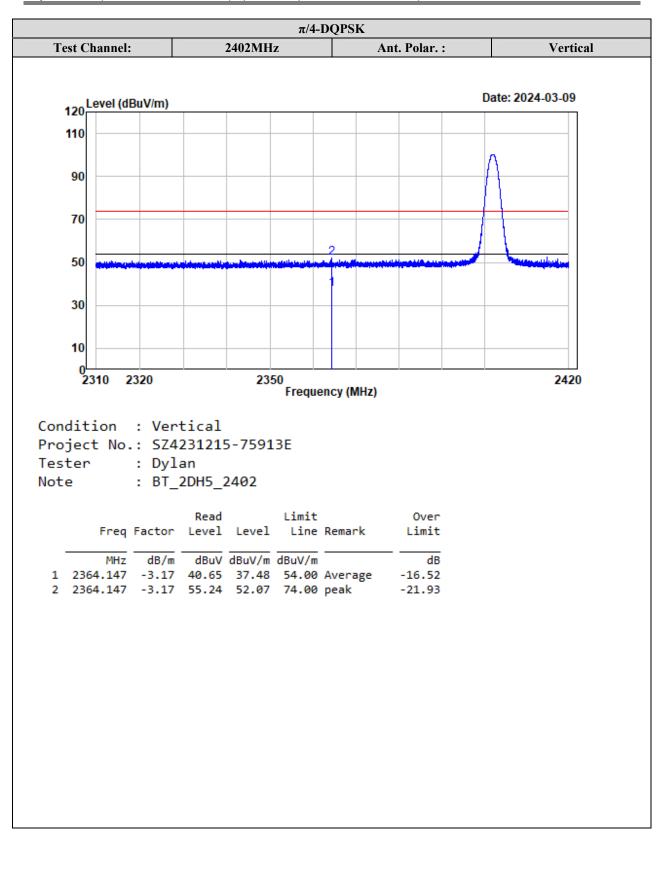


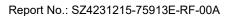


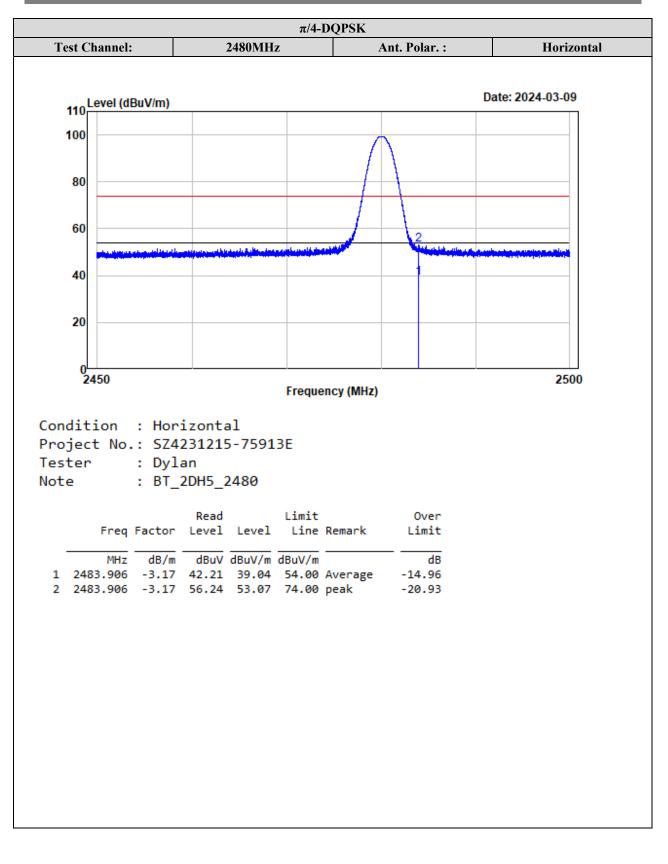




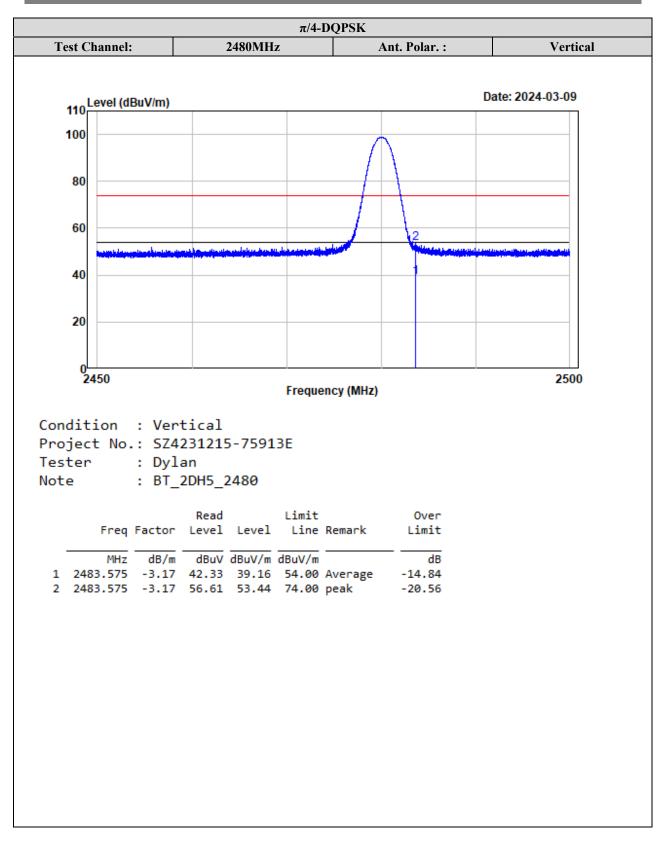




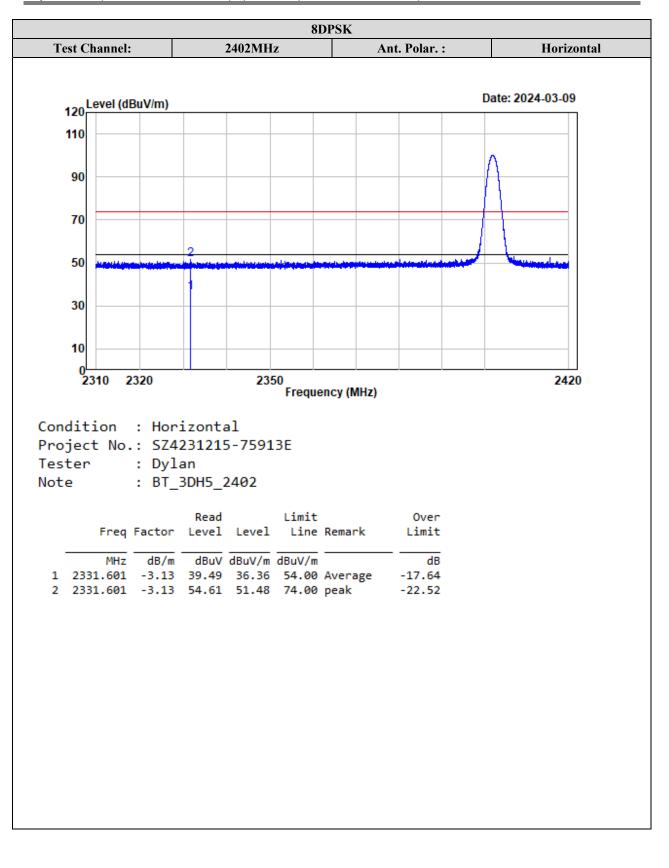


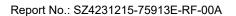


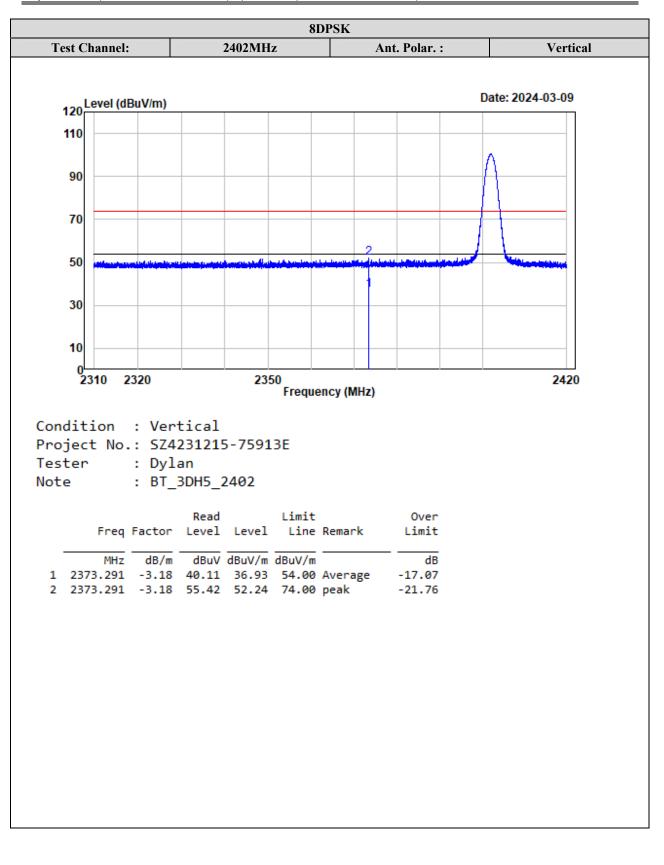




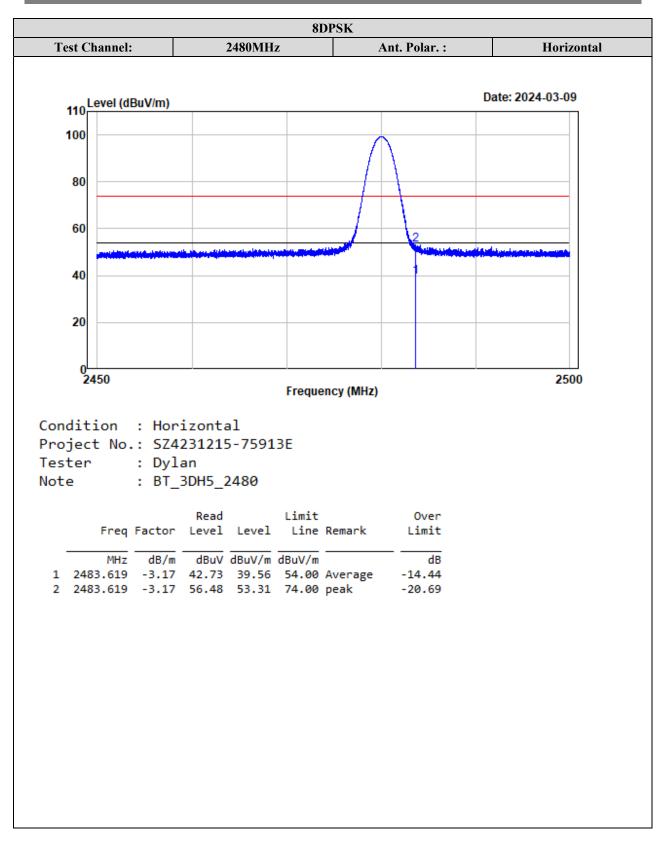


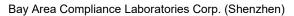


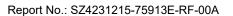


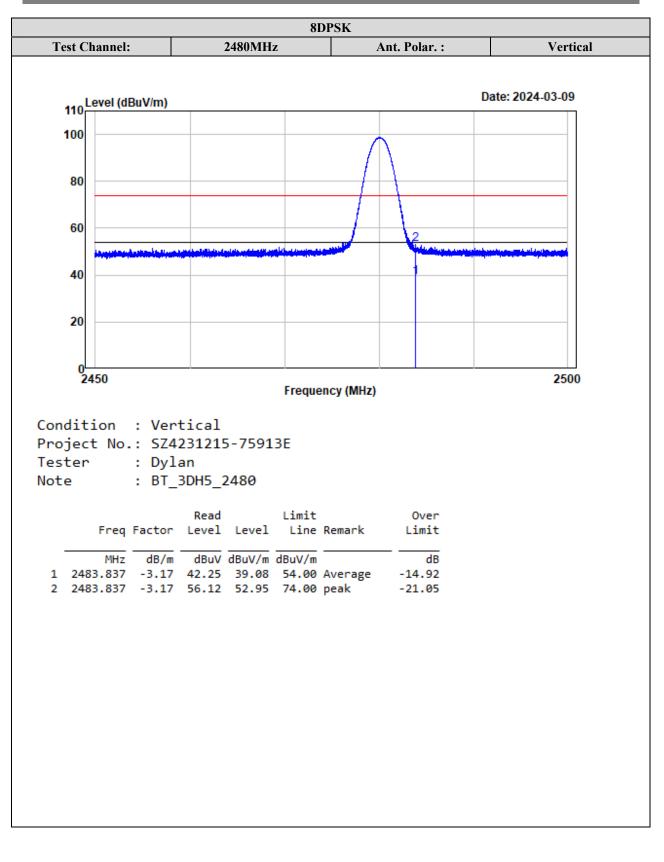






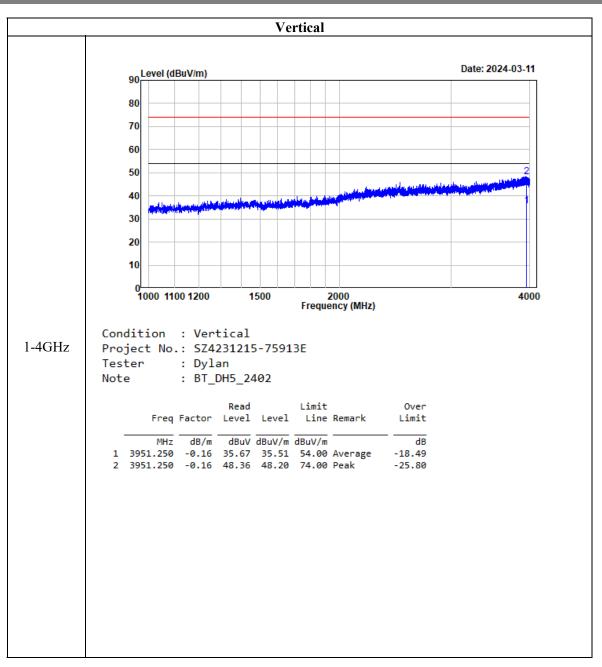


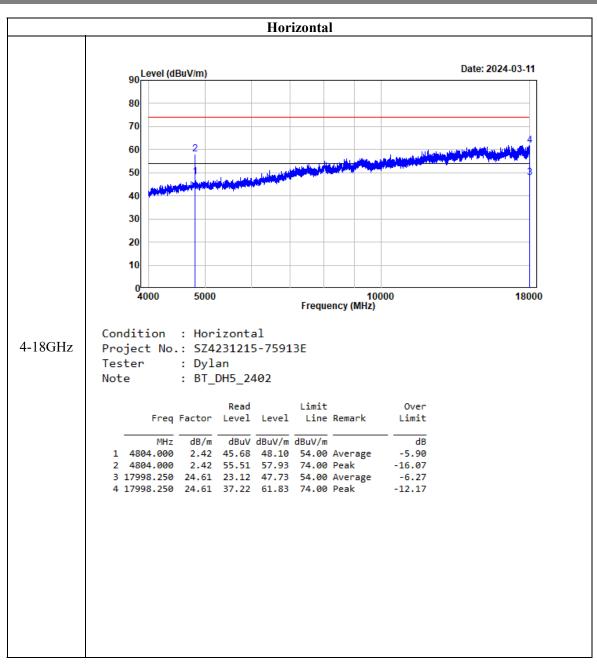


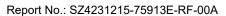


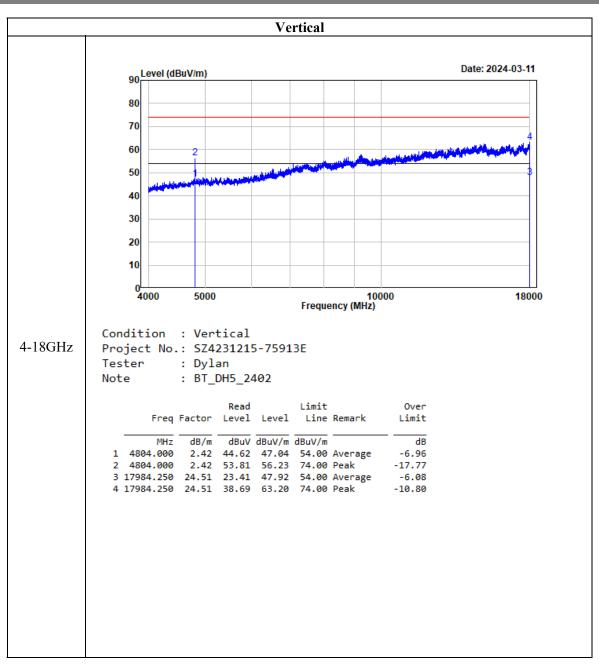
	Horizontal	
	90_Level (dBuV/m)	Date: 2024-03-11
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GHz Pr Te		
GHz Pr Te	oject No.: SZ4231215-75913E ster : Dylan	Over ark Limit
GHz Pr Te No	oject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m	ark Limit dB
GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61
GHZ Pr Te No	oject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m	ark Limit dB rage -18.61
GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61
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GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61
GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61
GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61
GHz Pr Te No	bject No.: SZ4231215-75913E ster : Dylan te : BT_DH5_2402 Freq Factor Level Level Line Rema MHz dB/m dBuV dBuV/m dBuV/m 3941.875 -0.23 35.62 35.39 54.00 Aver	ark Limit dB rage -18.61

Listed with the worst harmonic margin test plot (BDR Mode Low channel was the worst):





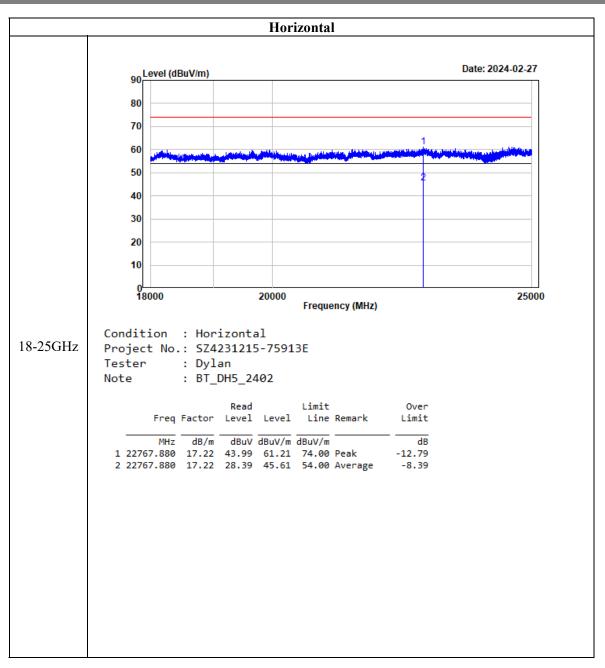




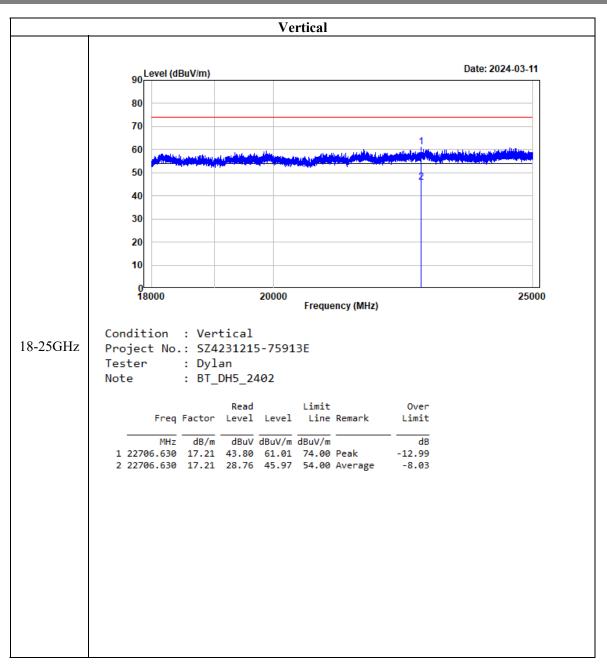
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Version 1.0 (2023/10/07)

FCC §15.247(a) (1) & RSS-247 § 5.1 (b) -CHANNEL SEPARATION TEST

Applicable Standard

According to FCC §15.247(a) (1):

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. 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.

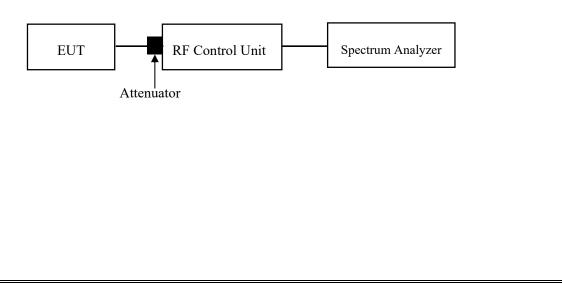
According to RSS-247 § 5.1 (b):

Frequency hopping systems (FHSs) 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, FHSs operating in the band 2400-2483.5 MHz 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 that the systems operate with an output power no greater than 0.125 W. 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.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.2

- 1. Set the EUT in transmitting mode, max hold the channel.
- 2. Set the adjacent channel of the EUT and max hold another trace.
- 3. Measure the channel separation.



Test Data

Environmental Conditions

Temperature:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) & RSS-247 § 5.1 (a), RSS-GEN § 6.7 – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

Applicable Standard

According to FCC §15.247(a) (1):

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.

According to RSS-247 § 5.1 (a), RSS-GEN § 6.7:

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "20 dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 20 dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedure

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

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

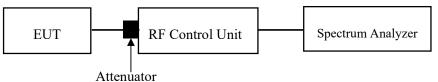
• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.

• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).



Test Data

Environmental Conditions

Temperature:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

According to FCC §15.247(a) (1) (iii):

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.

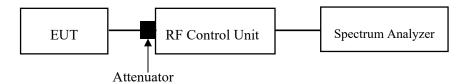
According to RSS-247 § 5.1 (d):

Frequency hopping systems (FHSS) operating in the band 2400-2483.5 MHz shall use at least 15 hopping 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. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.3

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the max-hold function record the quantity of the channel.



Test Data

Environmental Conditions

Temperature:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

According to FCC §15.247(a) (1) (iii):

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.

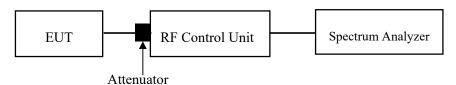
According to RSS-247 § 5.1 (d):

Frequency hopping systems (FHSs) operating in the band 2400-2483.5 MHz shall use at least 15 hopping 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. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.4

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW \ge 3×RBW.
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses



Test Data

Environmental Conditions

Temperature:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(b) (1) & RSS-247§ 5.1(b) &§ 5.4(b) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to FCC §15.247(b) (1):

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 nonoverlapping 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.

According to RSS-247§ 5.1(b) &§ 5.4(b):

For frequency hopping systems (FHSs) operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W (see Section 5.4(e) for exceptions).

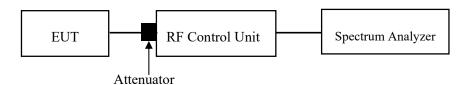
Frequency hopping systems (FHSs) shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the -20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.5

1. Place the EUT on a bench and set in transmitting mode.

- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(d) & RSS-247 § 5.5 - BAND EDGES TESTING

Applicable Standard

According to FCC §15.247(d).

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)).

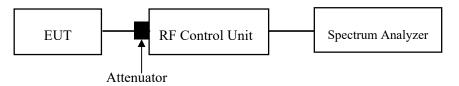
According to RSS-247 § 5.5.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(e), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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:	25.6 °C		
Relative Humidity:	43 %		
ATM Pressure:	102.5 kPa		

The testing was performed by Tom Liu on 2024-02-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment SZ4231215-75913E-RF External photo and SZ4231215-75913E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ4231215-75913E-RFA Test Setup photo.

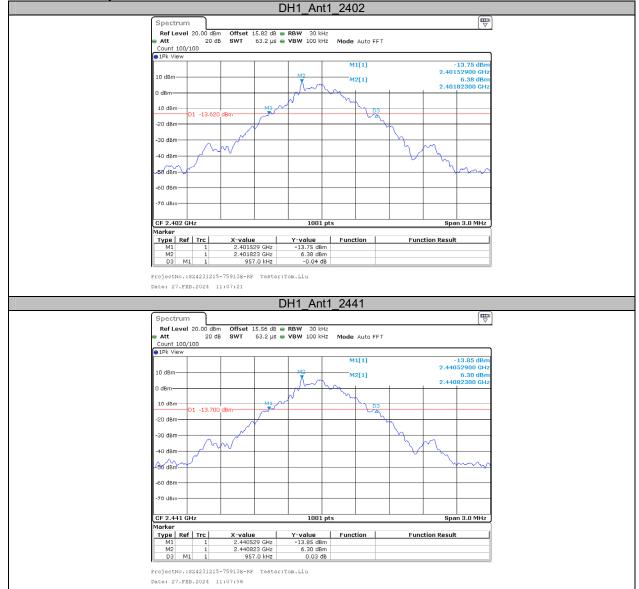
APPENDIX

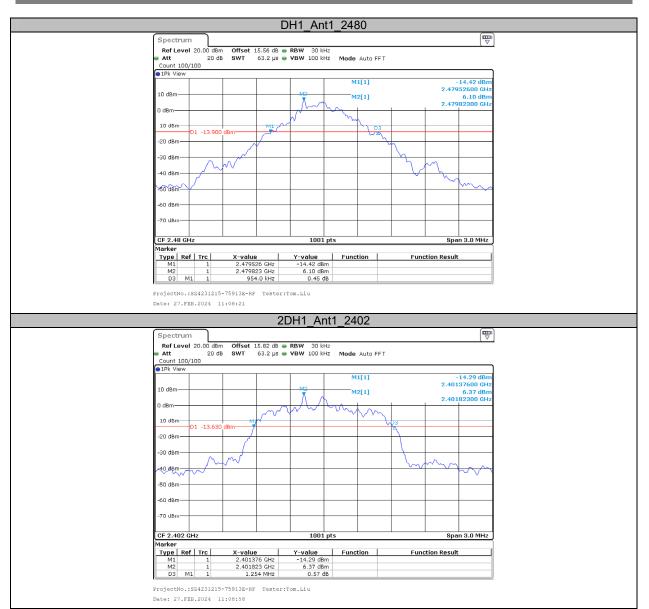
Appendix A: 20dB Emission Bandwidth

Test Result

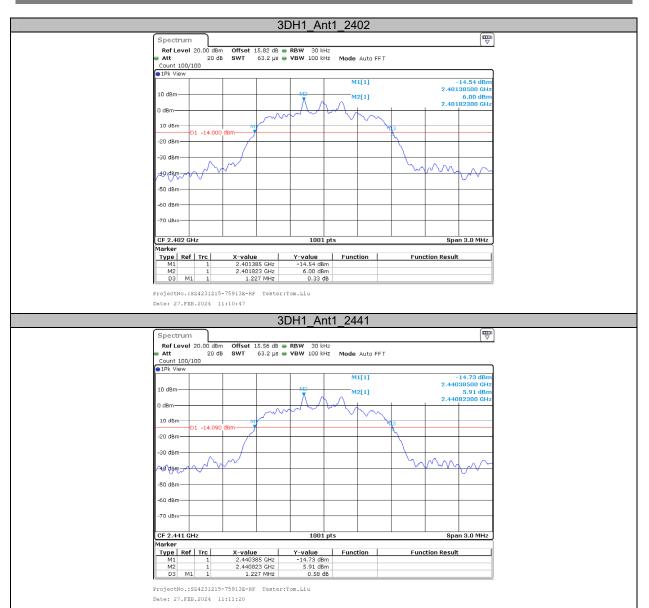
Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1 Ant1		2402	0.96	2401.53	2402.49		
	Ant1	2441	0.96	2440.53	2441.49		
		2480	0.95	2479.53	2480.48		
2DH1		2402	1.25	2401.38	2402.63		
	Ant1	2441	1.26	2440.38	2441.63		
		2480	1.25	2479.38	2480.63		
3DH1	Ant1	2402	1.23	2401.39	2402.61		
		2441	1.23	2440.39	2441.61		
		2480	1.22	2479.39	2480.61		

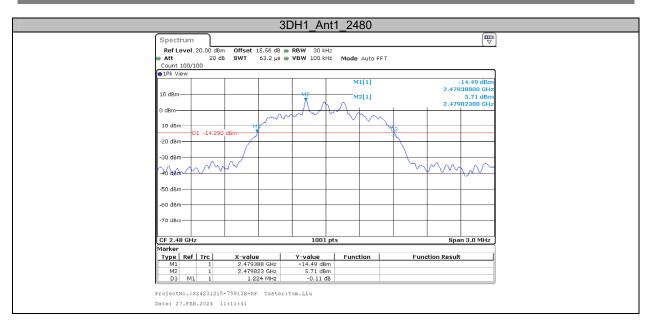
Test Graphs











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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.89	2401.5475	2402.4376		
DH1	Ant1	2441	0.896	2440.5445	2441.4406		
		2480	0.896	2479.5445	2480.4406		
		2402	1.163	2401.4126	2402.5754		
2DH1	Ant1	2441	1.166	2440.4126	2441.5784		
		2480	1.166	2479.4126	2480.5784		
		2402	1.145	2401.4246	2402.5694		
3DH1	Ant1	2441	1.145	2440.4246	2441.5694		
		2480	1.145	2479.4246	2480.5694		

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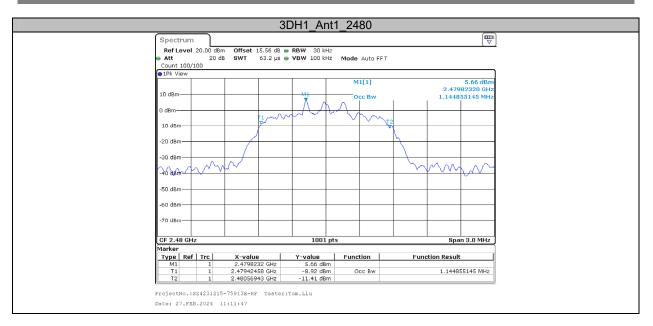
Test Graphs











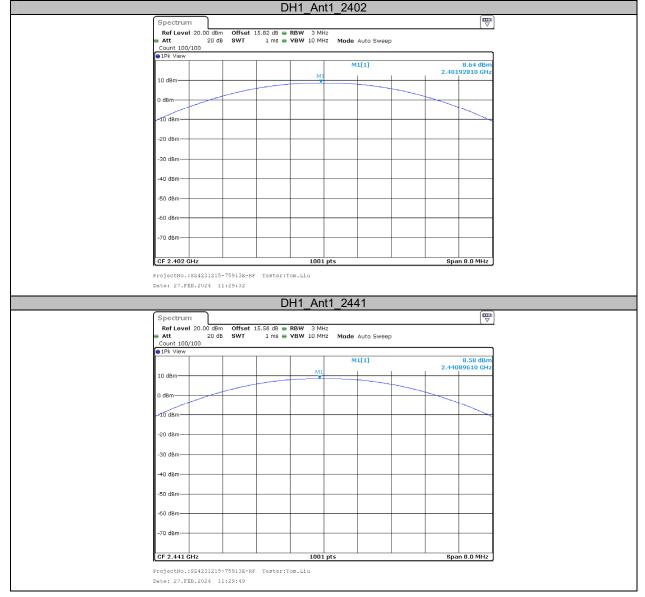
Appendix C: Maximum conducted output power

Test Result Peak

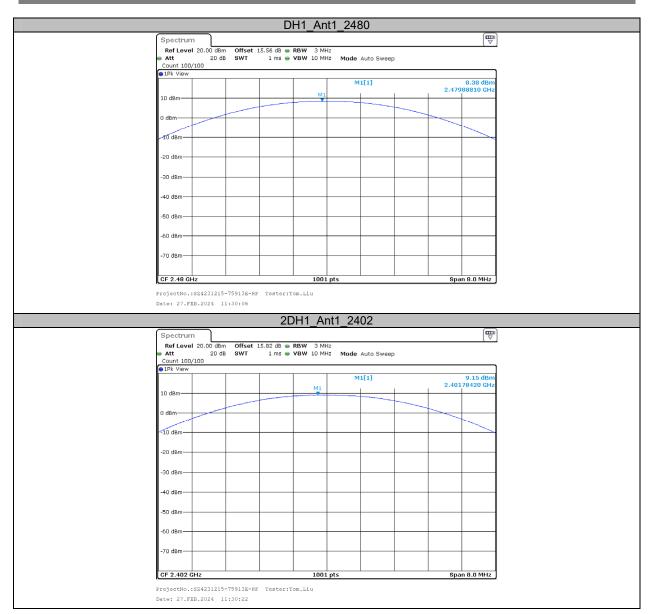
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	8.64	≤30	PASS
DH1	Ant1	2441	8.58	≤30	PASS
		2480	8.38	≤30	PASS
		2402	9.15	≤20.97	PASS
2DH1	Ant1	2441	9.04	≤20.97	PASS
		2480	8.81	≤20.97	PASS
		2402	9.45	≤20.97	PASS
3DH1	Ant1	2441	9.3	≤20.97	PASS
		2480	9.02	≤20.97	PASS

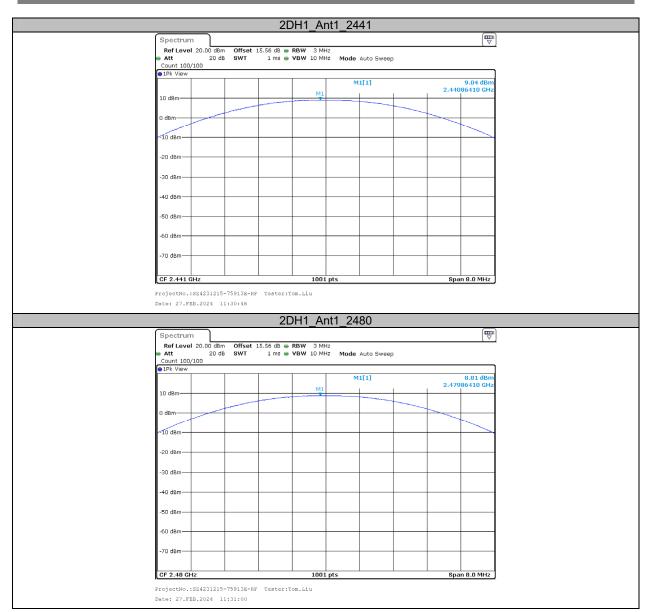
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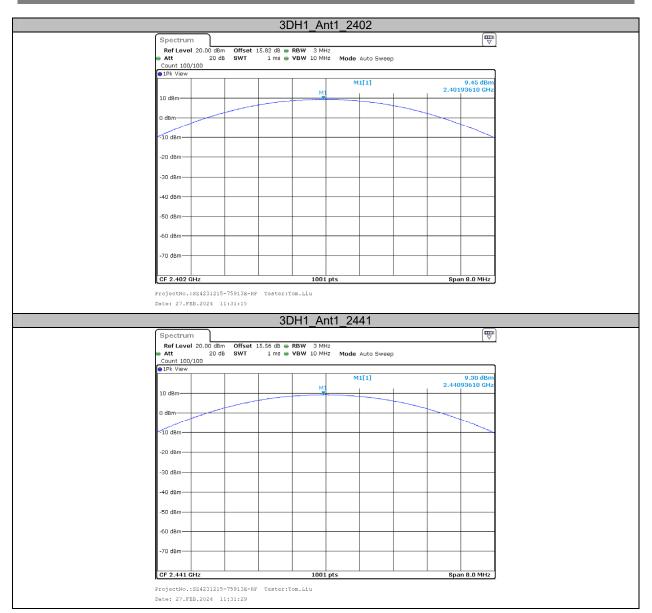
Test Graphs

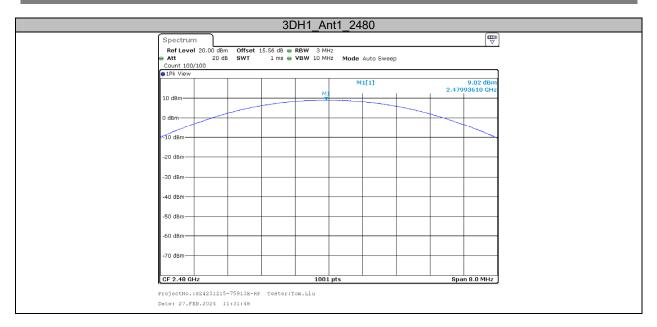


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Appendix D: Carrier frequency separation

Test Result

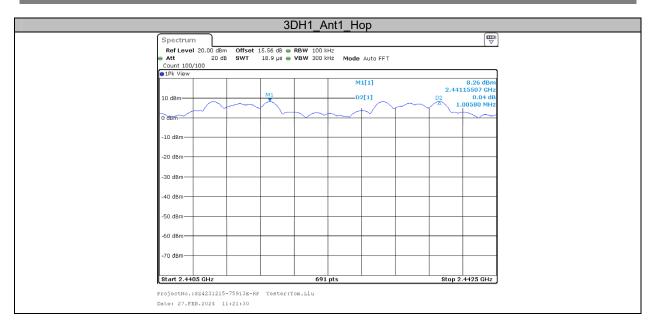
Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.006	≥0.960	PASS
2DH1	Ant1	Нор	1.003	≥0.840	PASS
3DH1	Ant1	Нор	1.006	≥0.820	PASS

Note: For DH1 mode, limit is no less than 20dB EBW,

For 2DH1 and 3DH1 mode, limit in no less than two thirds of 20dB EBW.

Test Graphs

			D)H1_Ai	nt1 Ho	р			
Spectrur	11				_				(IIII) ▽
Ref Leve Att	20.00 dBm 20 dB			RBW 100 k		Auto EET			
Count 100	0/100	3001	10.9 µз 🕳	*D** 300 P	inz moue	AULU PP I			
●1Pk View					N	1[1]			3.22 dBm
10 dBm	M1					2[1] D2		2,4408	2174 GHz 0.02 dB
10 0011		~~~~	\langle					1.00	580 MHz
0 dBm						/		\rightarrow	
-10 dBm-					\sim				$\overline{}$
-10 080									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-00 0811									
-70 dBm									
Start 2.44					pts			Stop 2.4	
	:SZ4231215- EB.2024 11			DH1_A	nt1 H	op			
Spectrur	22					<u>чр</u>			
Ref Leve	al 20.00 dBm	Offset 1	5.56 dB 👄	RBW 100 k	Hz				[]
Att Count 100	20 dB 0/100	SWT	18.9 µs 👄	VBW 300 k	Hz Mode	Auto FFT			
●1Pk View	1 1					1[1]			3.22 dBm
						1111			
								2.4408	2174 GHz
10 dBm	M1					2[1] D2	\sim	2.4408	2174 GHz 0.02 dB 1290 MHz
10 dBm-	M1	\sim	\sim				\frown	2.4408	2174 GHz 0.02 dB
0 dBm	M1	~	~					2.4408	2174 GHz 0.02 dB
	MI	~	~					2.4408	2174 GHz 0.02 dB
0 dBm	M1		~					2.4408	2174 GHz 0.02 dB
0 dBm	M1							2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm- -20 dBm- -30 dBm-	M1							2.4408	2174 GHz 0.02 dB
0 dBm	MI							2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm- -20 dBm- -30 dBm-	MI							2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm								2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm- -20 dBm- -30 dBm- -40 dBm-								2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	M1							2.4408	2174 GHz 0.02 dB
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm								2.4408:	2174 GHz 0.02 dB 1290 MHz
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -70 dBm	05 GHz							2.4408	2174 GHz 0.02 dB 1290 MHz
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm ProjectNo.			Tester:T					2.4408:	2174 GHz 0.02 dB 1290 MHz



Report No.: SZ4231215-75913E-RF-00A

Appendix E: Time of occupancy

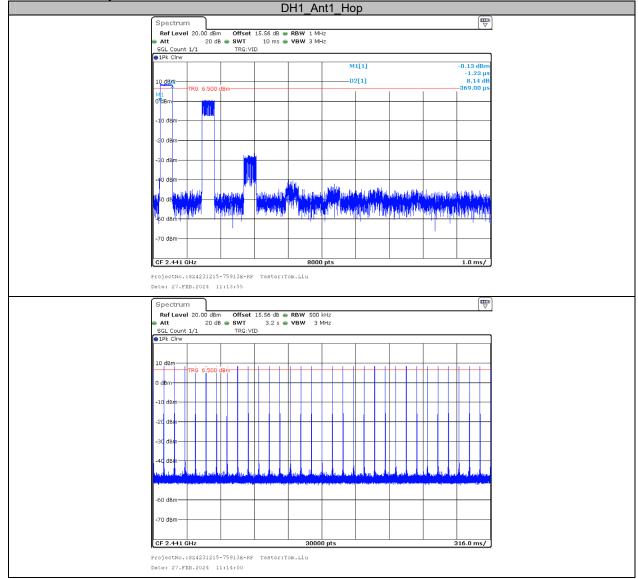
Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.369	320	0.118	≤0.4	PASS
DH3	Ant1	Нор	1.609	160	0.257	≤0.4	PASS
DH5	Ant1	Нор	2.850	110	0.314	≤0.4	PASS
2DH1	Ant1	Нор	0.378	320	0.121	≤0.4	PASS
2DH3	Ant1	Нор	1.621	160	0.259	≤0.4	PASS
2DH5	Ant1	Нор	2.862	110	0.315	≤0.4	PASS
3DH1	Ant1	Нор	0.378	320	0.121	≤0.4	PASS
3DH3	Ant1	Нор	1.619	160	0.259	≤0.4	PASS
3DH5	Ant1	Нор	2.863	110	0.315	≤0.4	PASS

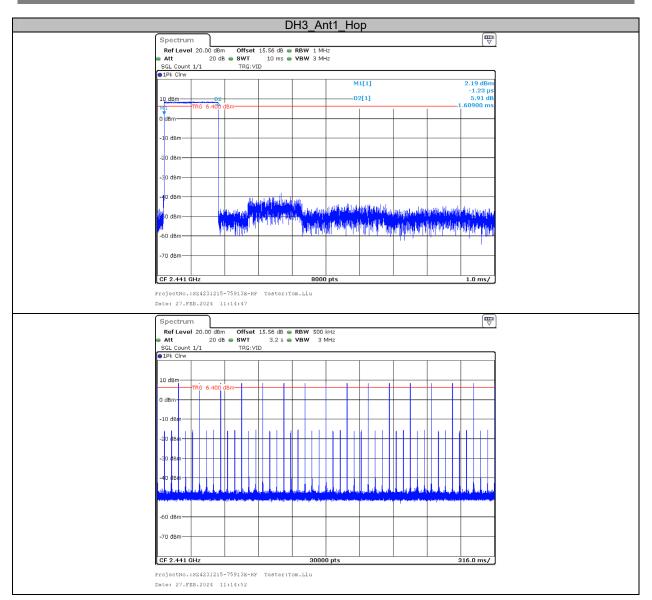
Note: Note:

Observation time = Hopping Channel Number $\times 0.4 = 32s$ TotalHops = $10 \times$ Hops of Observation time /10 Result = BurstWidth \times TotalHops.

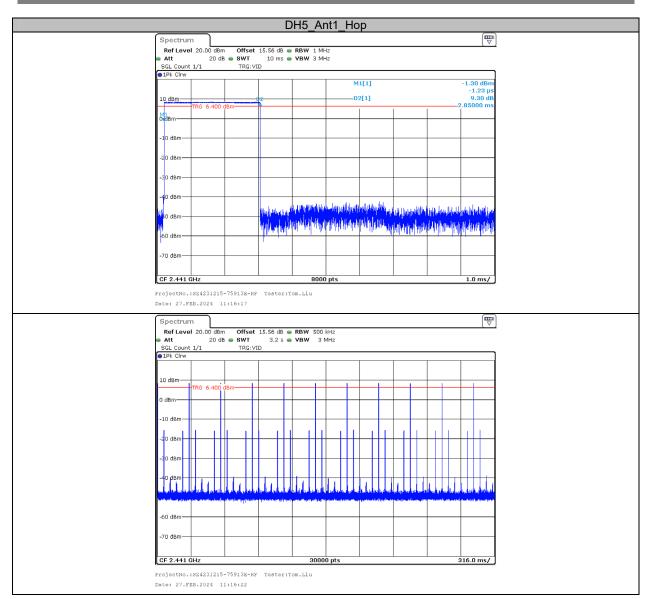
Test Graphs

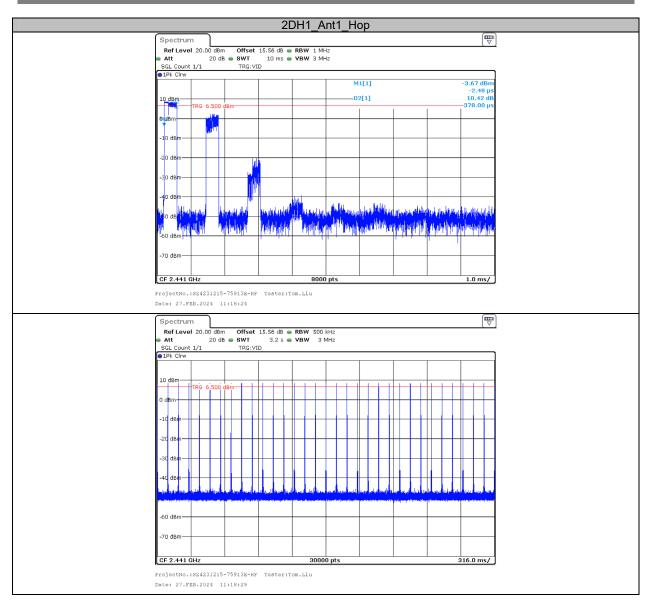


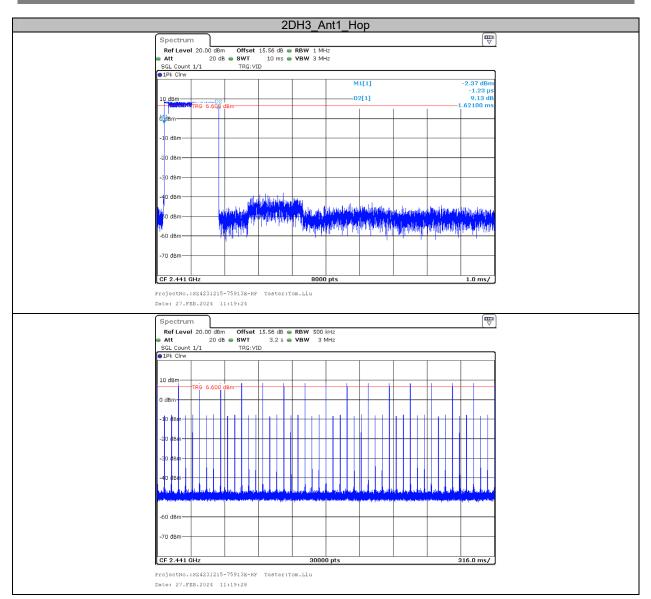
Report No.: SZ4231215-75913E-RF-00A

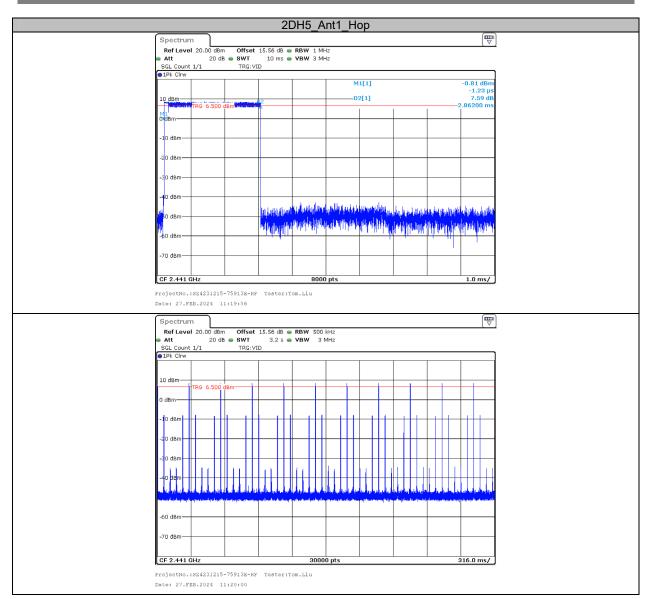


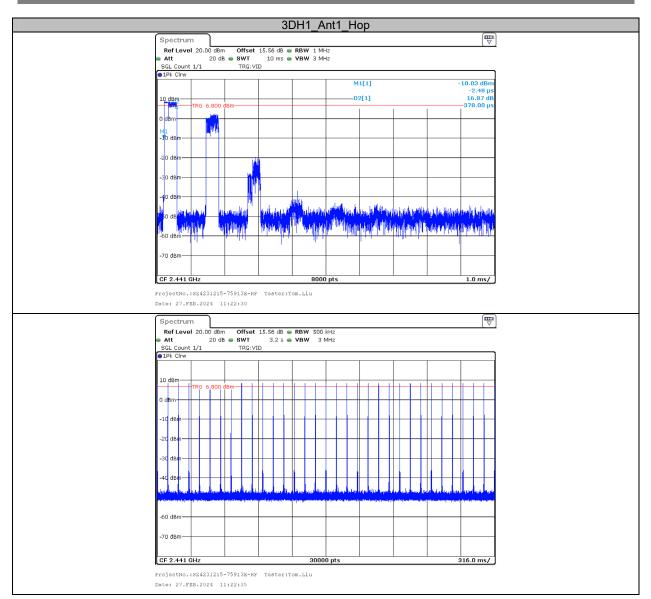
TR-EM-RF009



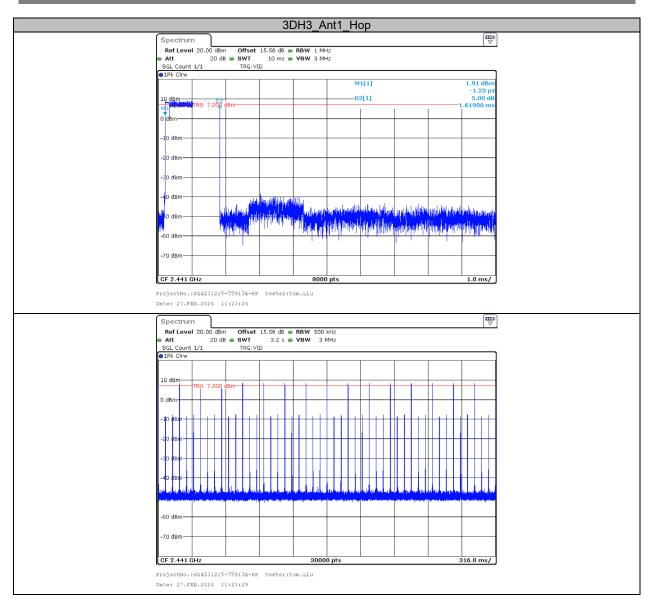




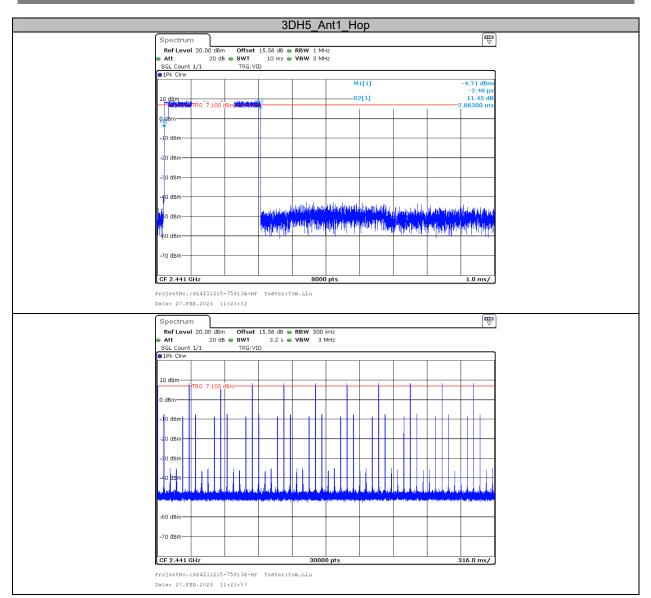




Report No.: SZ4231215-75913E-RF-00A



TR-EM-RF009



Report No.: SZ4231215-75913E-RF-00A

Appendix F: Number of hopping channels

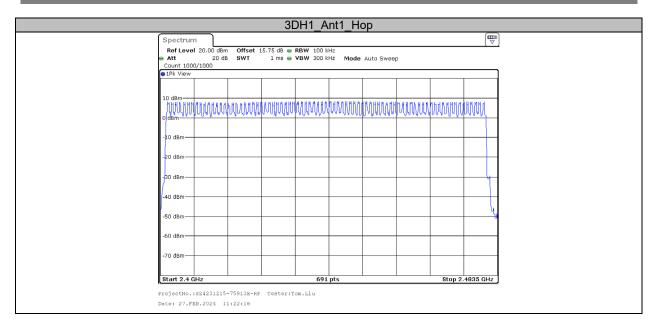
Test Result

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

TR-EM-RF009

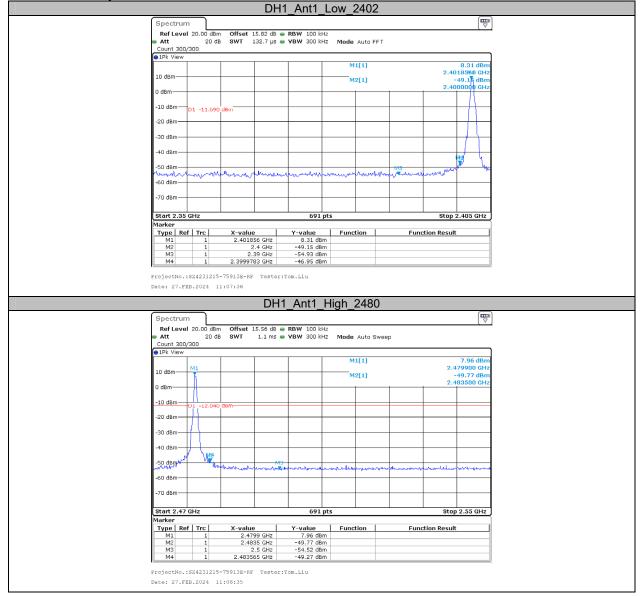
Test Graphs

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🖷 Att	20 dB	SWT	1 ms 👄	VBW 300 k	Hz Mode	Auto Swee	р			
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Ref Level	20.00 dBm 20 dB	Offset 3 SWT	L5.75 dB 👄	RBW 100 k	Hz		p		(
Ref Level Att	20.00 dBm 20 dB	Offset : SWT	L5.75 dB 👄	RBW 100 k	Hz		p		(₩
Ref Level Att Count 1000/ 91Pk View	20.00 dBm 20 dB	Offset : SWT	L5.75 dB 👄	RBW 100 k	Hz		p		(
Ref Level	20.00 dBm 20 dB	Offset : SWT	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		5. A 1 5 1 1 1		
Ref Level Att Count 1000/ 1Pk View	20.00 dBm 20 dB	Offset : SWT	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMW		
Ref Level Att Count 1000/ 91Pk View	20.00 dBm 20 dB	Offset : SWT	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMMM		
Ref Level Att Count 1000/ 1Pk View	20.00 dBm 20 dB	Offset	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMMM		
Ref Level Att Count 1000/ 1Pk View 10 dBm 0 dBm	20.00 dBm 20 dB	Offset	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMMM		
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Ref Level Att Count 1000/ 1Pk View 10 dBm -10 dBm -20 dBm	20.00 dBm 20 dB	Offset : SWT	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMM		
Ref Level Att Count 1000/ 1Pk View 10 dBm -10 dBm -20 dBm -80 dBm	20.00 dBm 20 dB	Offset : SWT	15.75 dB 👄 1 ms 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Swee		MMM		
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Ref Level Att Count 1000/ IPk View 10 d8m o/dem -10 d8m -20 d8m -80 d8m -40 d8m -50 d8m -60 d8m -70 d8m	20.00 dBm 20 dB (1000		15.75 dB 1 ms	RBW 100 k VBW 300 k	HZ Mode	Auto Swee				
Ref Level Att Court 1000/ IPk View 10 dBm -10 dBm -20 dBm -80 dBm -80 dBm -60 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GH	20.00 dBm 20 dB 1000	-75913E-RF	15.75 dB 1 ms	RBW 100 k VBW 300 k	HZ Mode	Auto Swee				



Appendix G: Band edge measurements

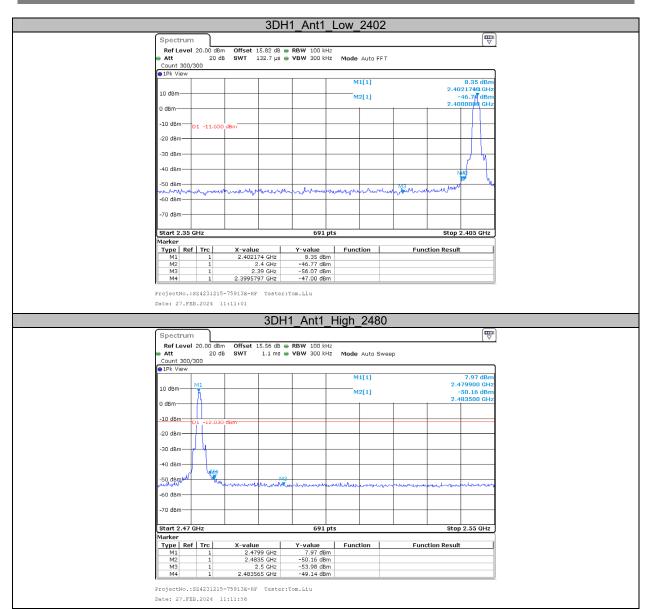
Test Graphs











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