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TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/05/29
Date of Test:	2023/04/28 to 2023/05/20
Date of Receipt:	2023/04/26
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2AFZZRN8DY
Trade Mark:	Redmi
Model No.:	23076RN8DY
EUT Description:	Mobile Phone
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Applicant:	Xiaomi Communications Co., Ltd.
Application No.:	SEWM2304000137RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/05/29		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

SG

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10-2020 Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.10.5	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.		
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085		
Manufacturer:	Xiaomi Communications Co., Ltd.		
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American

Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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EUT Description:	Mobile Phone	Mobile Phone		
Model No.:	23076RN8DY	23076RN8DY		
Trade Mark:	Redmi			
Hardware Version:	P1.1			
Software Version:	MIUI 14			
IMEI:	RF Conducted	IMEI1: 866672060047924 IMEI2: 866672060047932		
IIVIEI.	RSE & AC power line	IMEI1: 866672060046926 IMEI2: 866672060046934		
Operation Frequency:	-fc = "Operating Frequer	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V5.0	Bluetooth V5.0		
Modulation Technique:	Frequency Hopping Spre	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DP	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79	79		
Hopping Channel Type:	Adaptive Frequency Hop	Adaptive Frequency Hopping systems		
Antenna Type:	IFA Antenna	IFA Antenna		
	0.8dBi (Ant6)	0.8dBi (Ant6)		
Antenna Gain:	Note: The antenna gain are de by the manufacturer.	The antenna gain are derived from the gain information report provided		
RF Cable:	1.0dB			

3.4 General Description of EUT

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As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		·
Domark:							

Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.85		
Remark: NV: Normal Voltage				
NT: Normal Temperature				

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is IFA Antenna and no consideration of replacement. The best case gain of the antenna is 0.8dBi (Ant6). *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

4.2.2 Conclusion

Standard Requirement:

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. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudo random sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

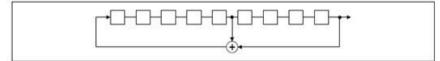
> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16 75 1

Each frequency used equally on the average by each transmitter.



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According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system. Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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4.3 AC Power Line Conducted Emissions

S

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
Limit:		Limit (d	BuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizon 4) The test was perform the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and b mounted on top of th the closest points of and associated equip 5) In order to find the m and all of the interfate 	sturbance voltage test was contend to AC power source throution Network) which provides are cables of all other units of and LISN 2, which was bonded and as the LISN 1 for the unit be the rating of the LISN was not as placed upon a non-metallic ne. And for floor-standing arrantal ground reference plane. The was bonded to the LISN 1 was placed 0.8 m from the vertical ground reference e ground reference plane. The LISN 1 and the EUT. All coment was at least 0.8 m from the vertical structure with a vertice of the tables of tables o	igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bt exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The e horizontal ground m the boundary of the plane for LISNs is distance was between other units of the EUT o the LISN 2. e positions of equipment	



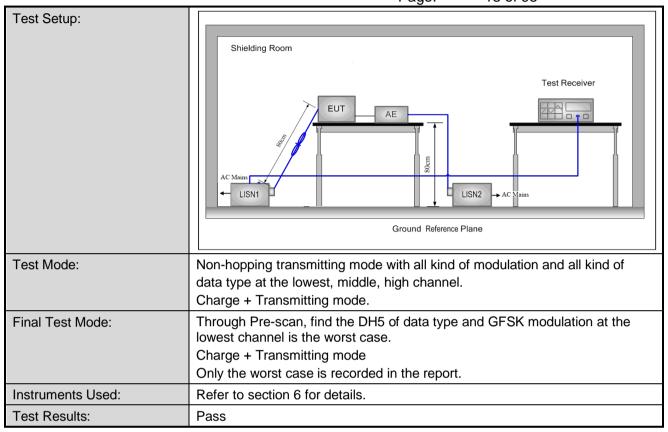
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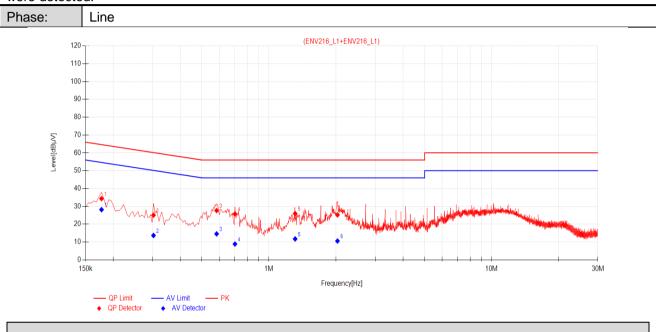
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.75	23.58	34.33	64.63	30.30	17.40	28.15	54.63	26.48	PASS
2	0.3030	10.62	14.43	25.05	60.16	35.11	3.05	13.67	50.16	36.49	PASS
3	0.5820	10.52	17.15	27.67	56.00	28.33	4.06	14.58	46.00	31.42	PASS
4	0.7035	10.58	15.16	25.74	56.00	30.26	-1.70	8.88	46.00	37.12	PASS
5	1.3110	10.78	15.22	26.00	56.00	30.00	0.97	11.75	46.00	34.25	PASS
6	2.0310	10.68	14.55	25.23	56.00	30.77	-0.11	10.57	46.00	35.43	PASS
Roma	rk										

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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Rev.: 01 15 of 95 Page: Phase: Neutral (ENV216_N+ENV216_N) 120 110 100 90 80 70 Level[dBµV] 60 50 40 30 20 10-0-150k 10M 30M 1M Frequency[Hz] - QP Limit - AV Limit — РК QP Detector AV Detector Data List QP QP QP QP AV AV AV AV Frequency Factor NO. Reading Value Limit Margin Reading Value Limit Margin Verdict [MHz] [dB] [dBµV] [dBµV] [dBµV] [dB] [dBµV] [dBµV] [dBµV] [dB] 1 0.1770 10.71 30.87 41.58 64.63 23.05 26.86 37.57 54.63 17.06 PASS 2 0.5730 10.71 16.43 27.14 56.00 28.86 2.35 13.06 46.00 32.94 PASS

6 Remark:

3

4

5

0.9105

1.1085

1.3110

2.0355

1. The following Quasi-Peak and Average measurements were performed on the EUT:

24.70

24.13

26.74

26.38

56.00

56.00

56.00

56.00

31.30

31.87

29.26

29.62

-4.37

-4.26

0.16

0.61

6.39

6.45

10.94

11.38

46.00

46.00

46.00

46.00

39.61

39.55

35.06

34.62

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

13.94

13.42

15.96

15.61

3. Margin = Limit[dBµV] – Value[dBµV]

10.76

10.71

10.78

10.77



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Report No.: SEWM2304000137RG03

PASS

PASS

PASS

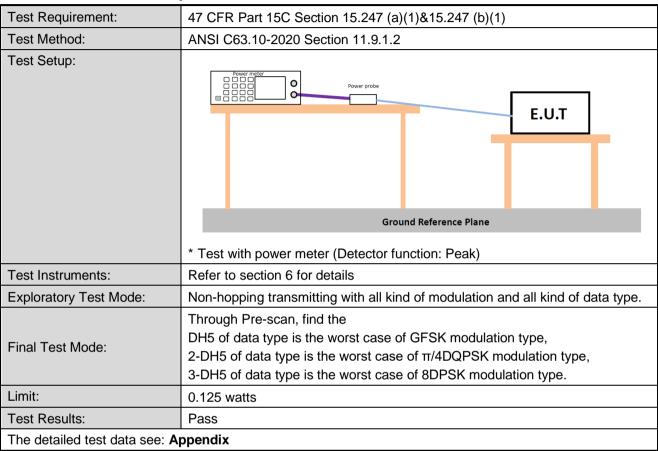
PASS

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4.4 Conducted Output Power





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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

S

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10-2020 Section 6.9.2 and 6.9.3	
Test Setup:	PC PC Communication RE Control Unit Decretariator RE Control Unit Decretariator Decretari	
Instruments Used:	Refer to section 6 for details	
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.	
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.	
Limit:	NA	
Test Results:	Pass	
The detailed test data see: A	ppendix	



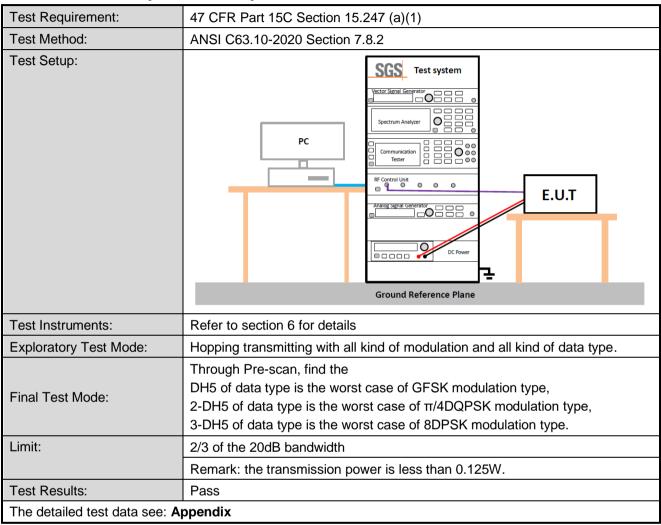
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4.6 Carrier Frequencies Separation



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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10-2020 Section 7.8.3 Test Setup: SGS Test system Vector Signal Genera 0 PC O Communication Unit 0 0 0 E.U.T Analog Signal Gene 0 DC Pov Ground Reference Plane Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation Limit: At least 15 channels **Test Results:** Pass The detailed test data see: Appendix

4.7 Hopping Channel Number



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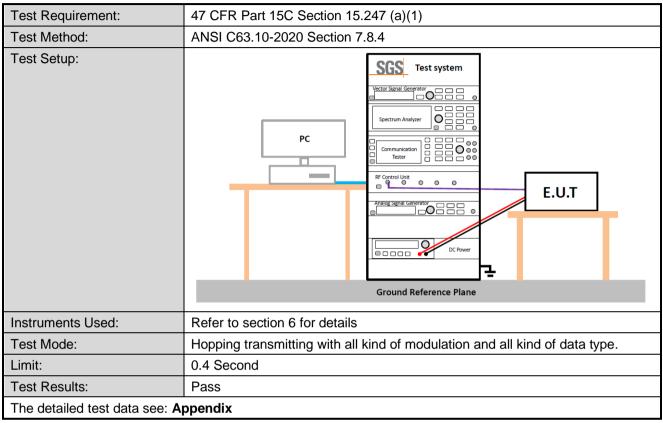
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4.8 Dwell Time





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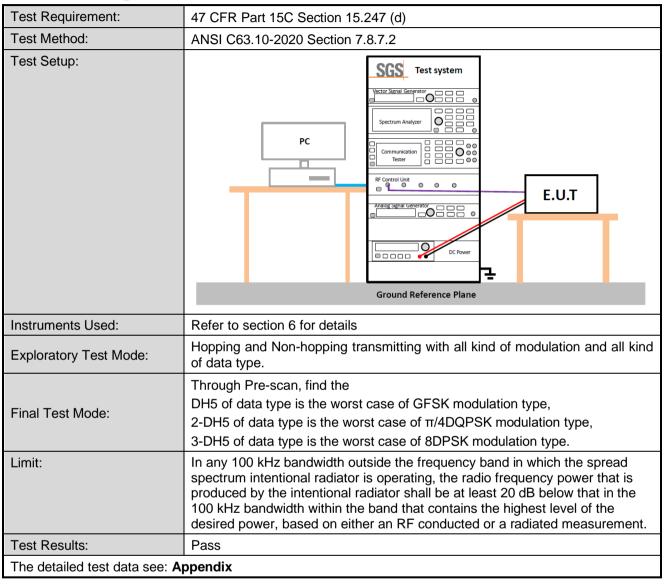
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4.9 Band-edge for RF Conducted Emissions





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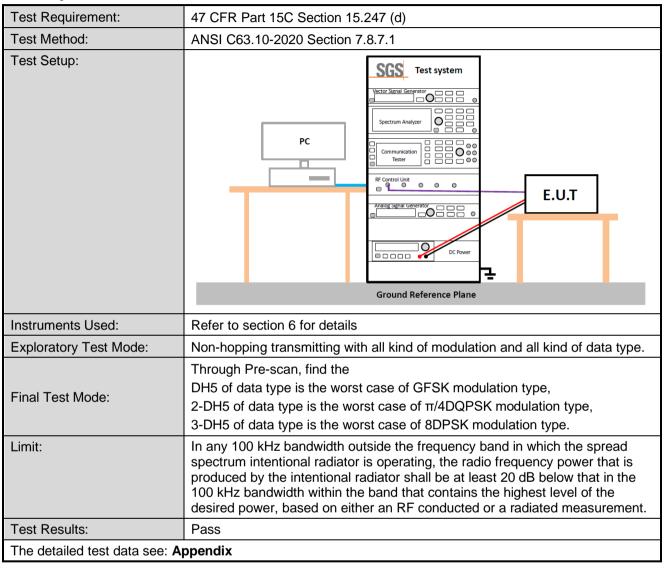
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4.10 Spurious RF Conducted Emissions





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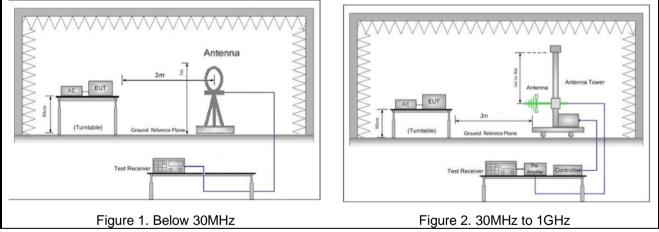
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4.11 Radiated Spurious Emissions

	•				
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section	on 6.4 / 6.5 / 6.6			
Test Site:	Measurement Distance: 3	sm (Semi-Anechoic	Chamber)		
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz 500 54.0 Quasi-peak 3				
	Above 1GHz 500 54.0 Average 3				
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak en level radiated by the device.				it

Test Setup:

SG





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	Antenna Tower Im or 3m F Hurs Antenna Tower Hurs Antenna Tower Turntable Coround Reference Plane Test Receiver Hurs Antenna Controller
	Figure 3. Above 1 GHz
Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	 b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from enterpose to EUT is 1m for measurements > 19CHz)
	 (Distance from antenna to EUT is 1m for measurements >18GHz). c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	 f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the
	result which was 20dB lower than the limit line was not reported
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1)$ = 9.54 dB.
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	 VBW = 30 kHz Detector - Reak & Average & Quasi peak
	 Detector = Peak & Average & Quasi-peak Trace mode = max hold
	Measurements Below 1000MHz



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	• RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \ge 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N * Where N ₁ is number of type 1 pulese, L ₁ is Average Value = Peak Value +20*log(Duty	er 15.35(c). [•] L _N s length of type	e 1 pulses, etc.
Exploratory Test Mode:	Non-hopping transmitting mode with all kir data type Charge + Transmitting mode.	nd of modulatio	on and all kind of
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is Pretest the EUT at Charge + Transmitting For below 1GHz part, through pre-scan, th Only the worst case is recorded in the rep	mode ne worst case is	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	a see: Appendix		



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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10-2020 Section 6.10.5			
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency	Limit (dBuV/m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
		54.0	Average Value	
	Above 1GHz	74.0	Peak Value	

Test Setup:

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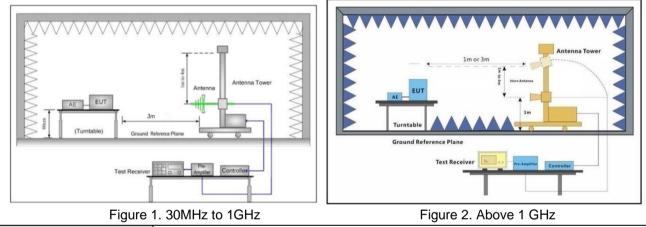


	Figure 1.		Figure 2. Above T GHZ
Test Procedure:	а	above the ground at a	UT was placed on the top of a rotating table 0.8 meters 3 or 10 meter semi-anechoic camber. The table was determine the position of the highest radiation.
	b	meters above the grou	UT was placed on the top of a rotating table 1.5 nd at a 3 meter semi-anechoic camber. The table was determine the position of the highest radiation.
	c		10 meters away from the interference-receiving ounted on the top of a variable-height antenna tower.
	d	to determine the maxin	varied from one meter to four meters above the ground num value of the field strength. Both horizontal and the antenna are set to make the measurement.
	e	then the antenna was t	nission, the EUT was arranged to its worst case and uned to heights from 1 meter to 4 meters and the ned from 0 degrees to 360 degrees to find the
	f.	The test-receiver syste Bandwidth with Maximu	m was set to Peak Detect Function and Specified um Hold Mode.
	g	. Place a marker at the e	end of the restricted band closest to the transmit



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	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel, the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N *L _N Where N ₁ is number of type 1 pulses, L ₁ is length of type 1 pulses, etc. Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix
	••



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	±0.54dB	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±1.0 %	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±1.0 %	
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)	
		± 3.13dB (9k to 30MHz)	
0	Radiated Emission	± 4.88dB (30M to 1GHz)	
8		± 4.75dB (1GHz to 18GHz)	
		± 4.77dB (Above 18GHz)	
Pomark:			

Remark:

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The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

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RF Test Equipment						
Test Equipment	Equipment Manufacturer Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05	
Signal Analyzer	ROHDE&	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Signal Analyzei	SCHWARZ	F3V3030	30001-01-02-02	2023/05/11	2024/05/10	
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR	
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05	
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22	
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22	
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05	
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21	

Conduction Test Equipment						
Test Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	



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RSE Test System						
Test Equipment	Manufacturer	Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24	
Temperature and humidity meter	MingGao	TH101B	TH101B SUWI-01-01-13 2023/02/07		2024/02/06	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04	
Receiving	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13	
antenna				2023/05/12	2024/05/11	
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09	
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22	
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22	
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5		2402	0.94	2401.53	2402.48	
	Ant6	2441	0.94	2440.53	2441.48	
		2480	0.94	2479.53	2480.48	
2DH5	Ant6	2402	1.29	2401.36	2402.65	For
		2441	1.29	2440.36	2441.65	Report
		2480	1.29	2479.36	2480.65	Purpose
3DH5		2402	1.30	2401.35	2402.65	
	Ant6	2441	1.29	2440.35	2441.64	
		2480	1.29	2479.35	2480.64	



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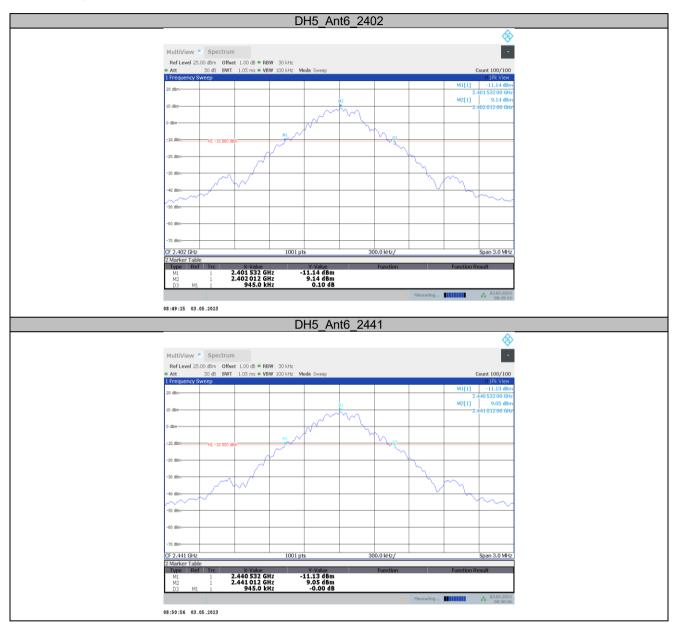
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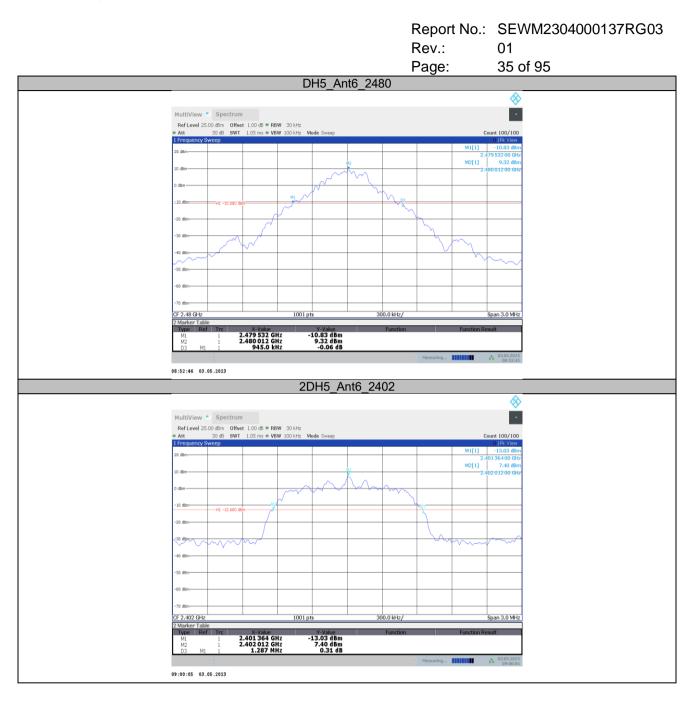


Test Graphs



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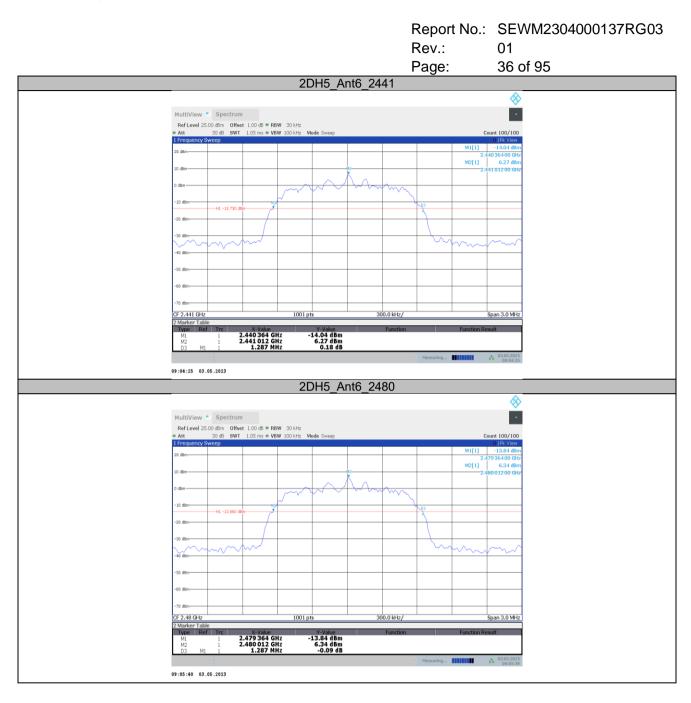
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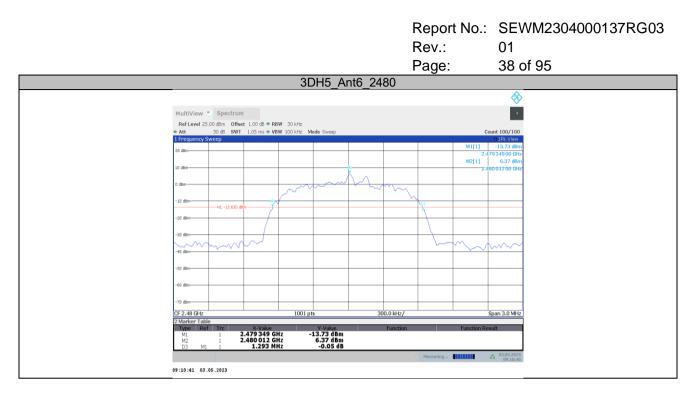
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant6	2402	0.859	2401.565	2402.424	
		2441	0.861	2440.564	2441.425	
		2480	0.859	2479.563	2480.422	
2DH5	Ant6	2402	1.178	2401.406	2402.584	For
		2441	1.18	2440.404	2441.584	Report
		2480	1.177	2479.404	2480.581	Purpose
3DH5	Ant6	2402	1.179	2401.408	2402.587	
		2441	1.184	2440.405	2441.588	
		2480	1.181	2479.405	2480.586	



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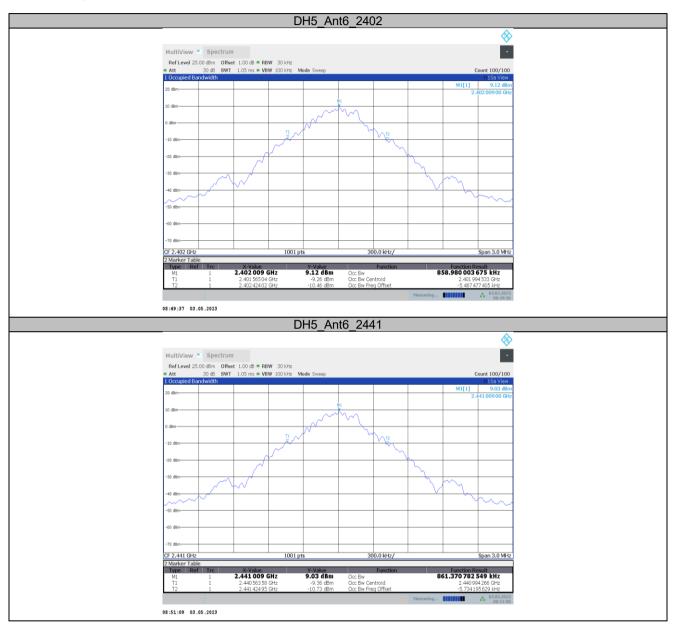
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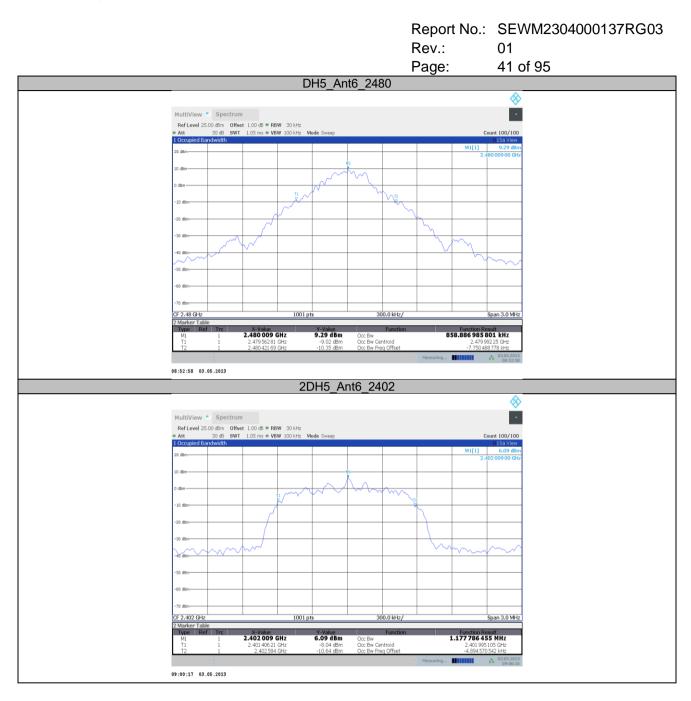


Test Graphs



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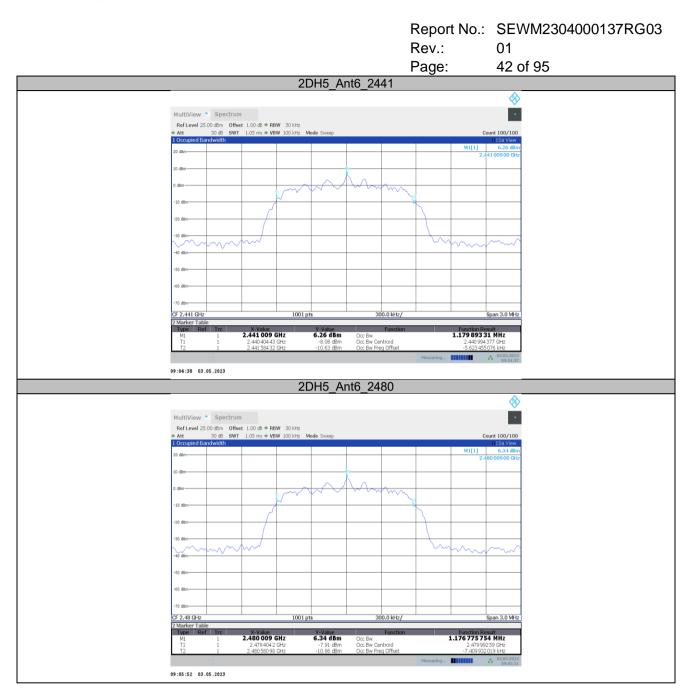
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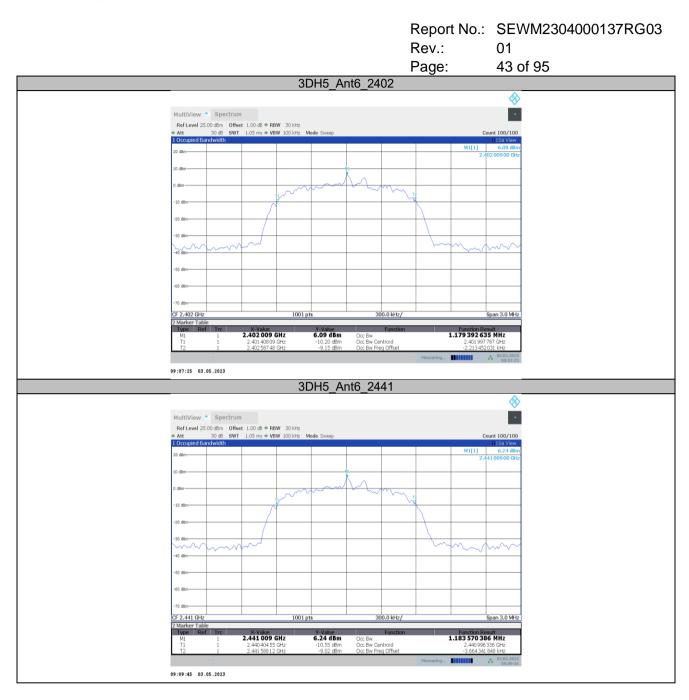
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2402	11.13	≤20.97	PASS
DH5	Ant6	2441	11.56	≤20.97	PASS
		2480	12.03	≤20.97	PASS
	Ant6	2402	10.13	≤20.97	PASS
2DH5		2441	10.06	≤20.97	PASS
		2480	10.32	≤20.97	PASS
3DH5	Ant6	2402	10.22	≤20.97	PASS
		2441	10.29	≤20.97	PASS
		2480	10.43	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant6	Нор	1.024	≥0.627	PASS
2DH5	Ant6	Нор	0.994	≥0.860	PASS
3DH5	Ant6	Нор	0.984	≥0.860	PASS



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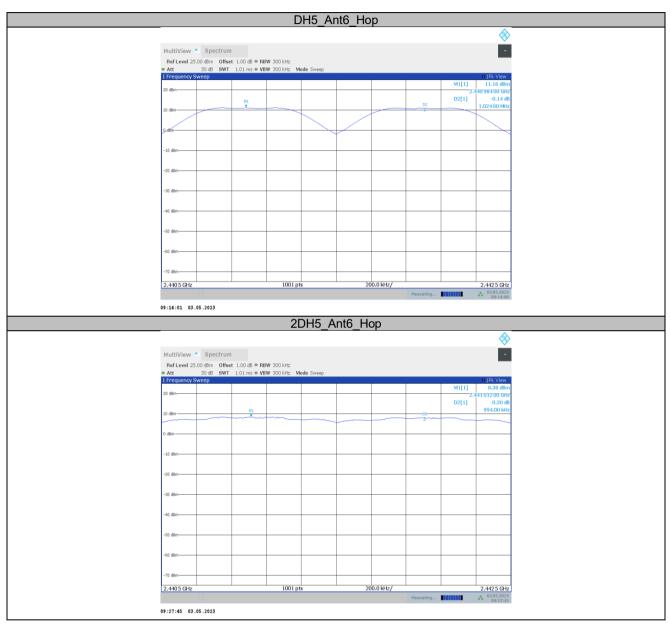
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Test Graphs



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		3DH5_A	nt6_Hop		
					
Ref Le Att	iew Spectrum vel 25.00 dBm Offset 1.00 dB = RBV 30 dB SWT 1.01 ms = VBV				
1 Freque	ency Sweep			M1[1]	01Pk View 8.36 dBm
20 dBm	M1				10 18 00 GHz -0.27 dB 984.00 kHz
10 dBm					
0 dBm					
-10 d8m-					
-20 dam-					
-30 dēm-					
-40 dêm-					
-50 dam-					
-60 dam-					
-70 d8m-					
2.4405	GHz	1001 pts	200.0 kHz/	- Measuring	2.442 5 GHz • 03.05.2023
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Time of occupancy Test Result

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant6	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant6	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant6	Нор	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant6	Нор	0.36	320	0.115	≤0.4	PASS
2DH3	Ant6	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant6	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant6	Нор	0.37	320	0.118	≤0.4	PASS
3DH3	Ant6	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant6	Нор	2.88	106.67	0.307	≤0.4	PASS



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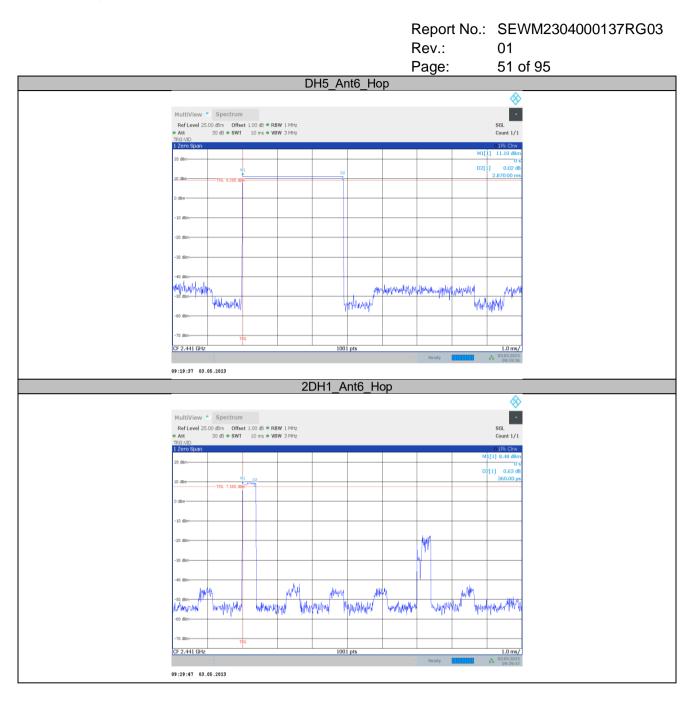
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Test Graphs



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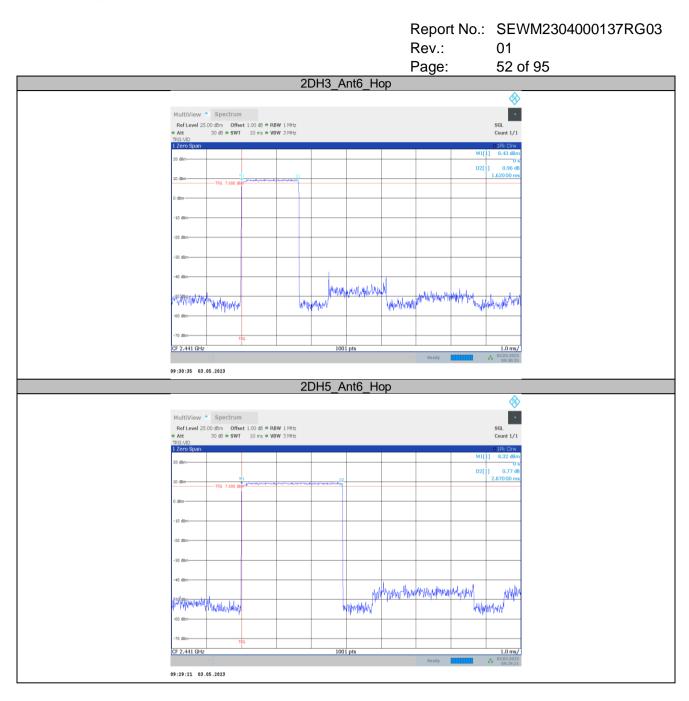
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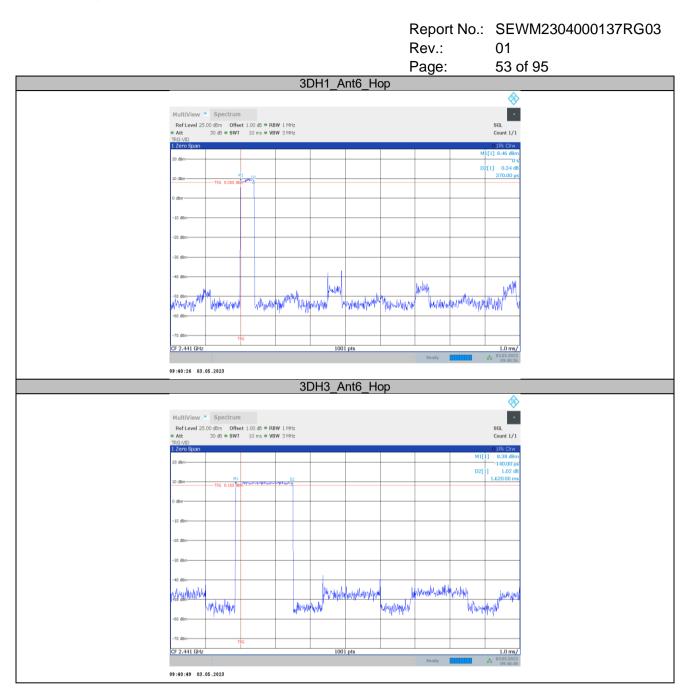
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Number of hopping channels Test Result

TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant6	Нор	79	≥15	PASS
2DH5	Ant6	Нор	79	≥15	PASS
3DH5	Ant6	Нор	79	≥15	PASS



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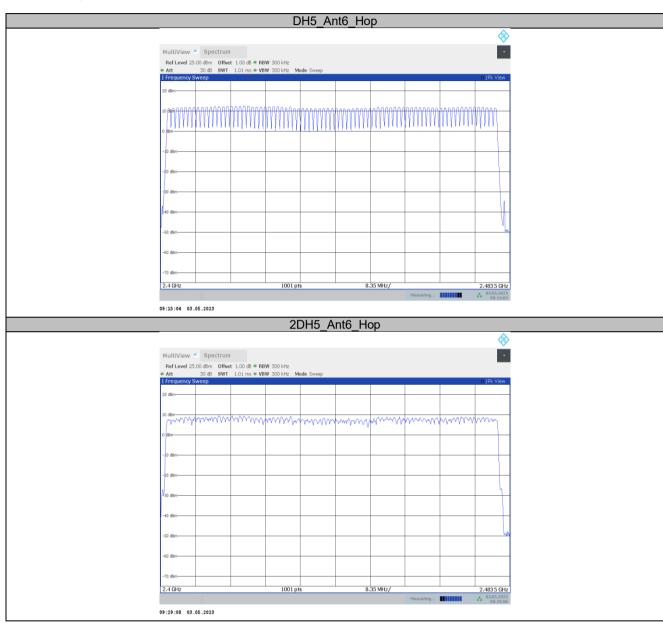
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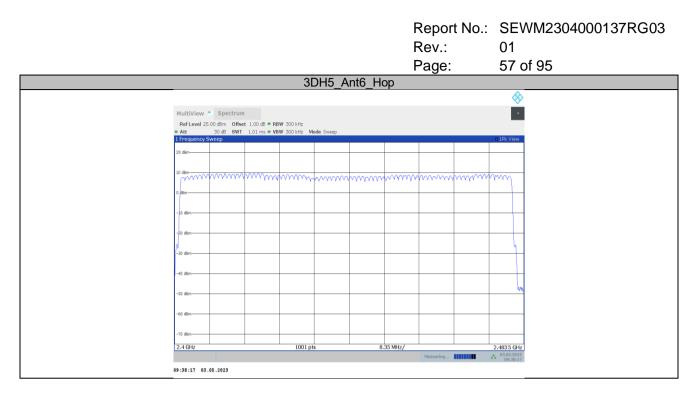


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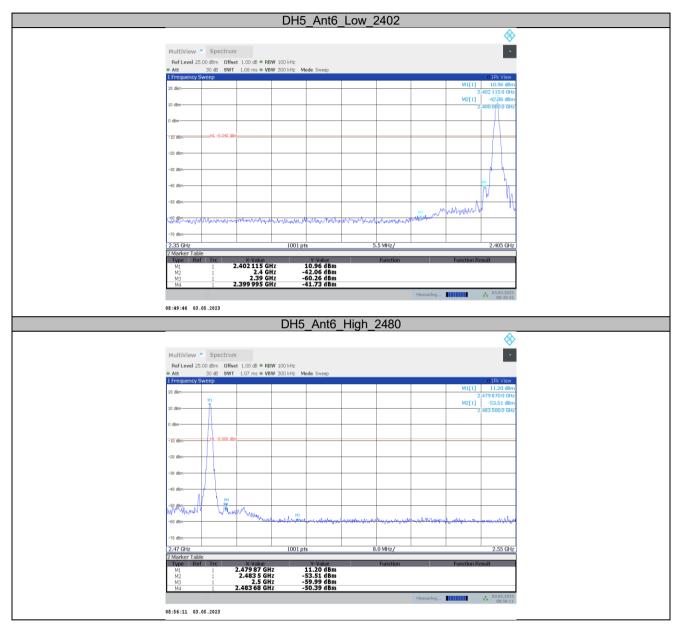
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Band edge measurements

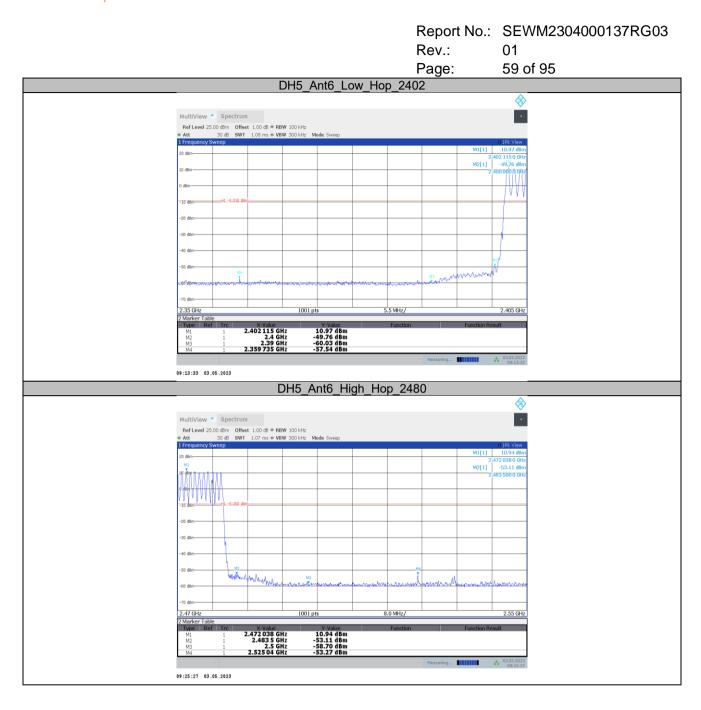
Test Graphs





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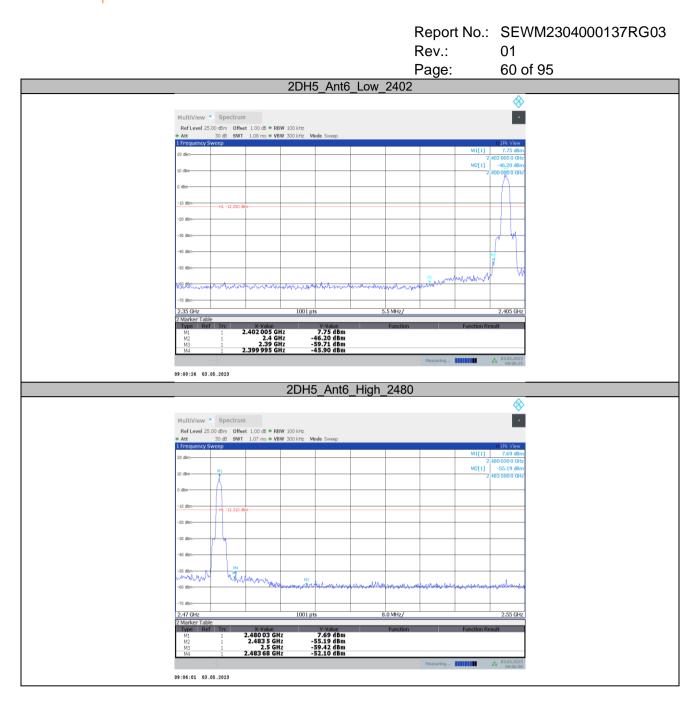
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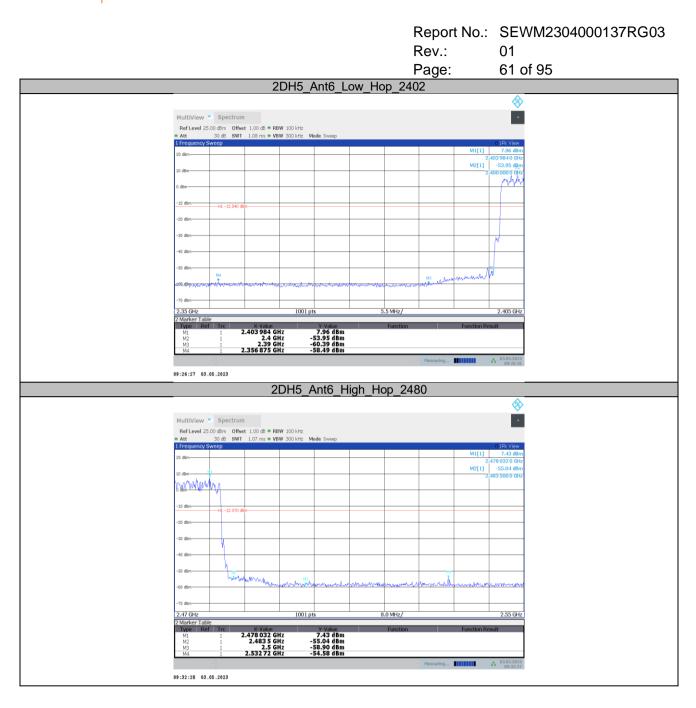
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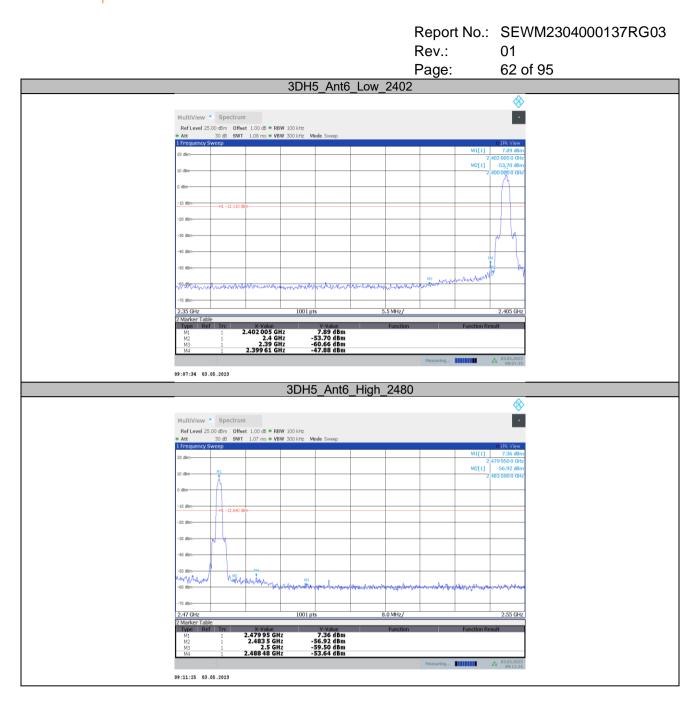
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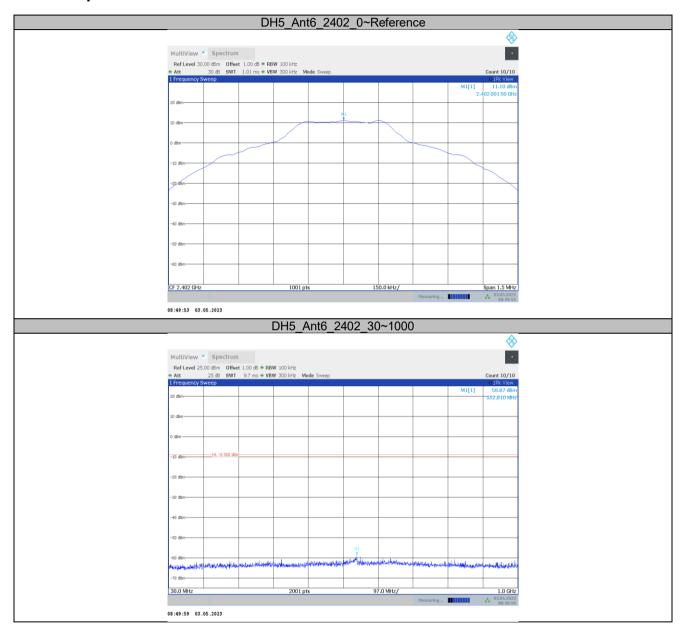
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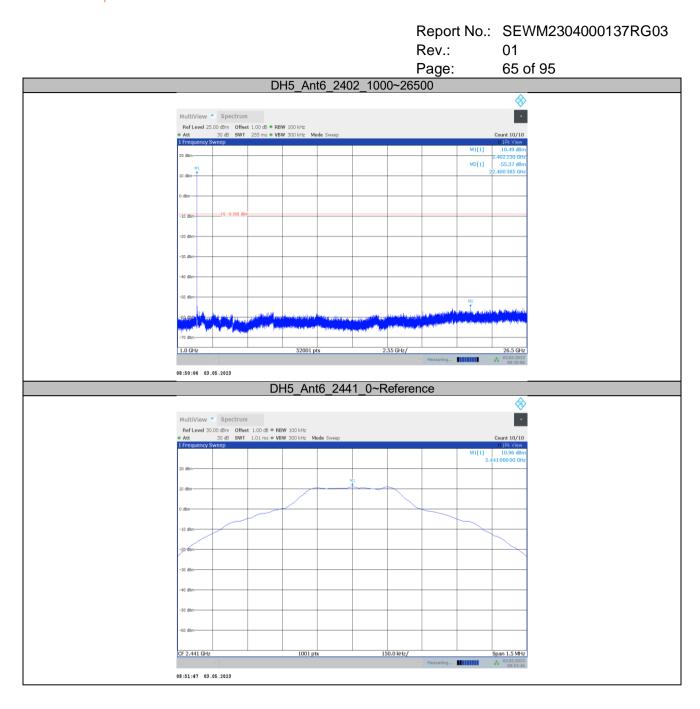
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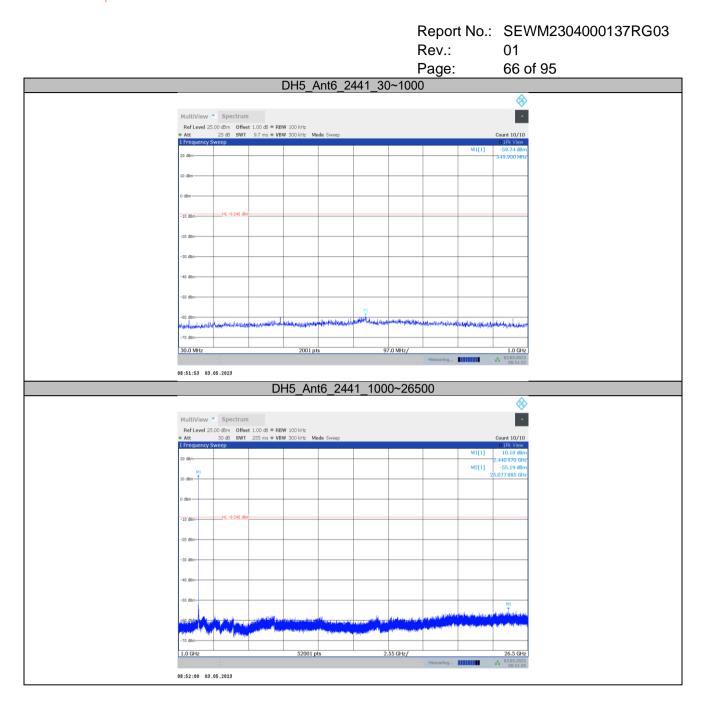
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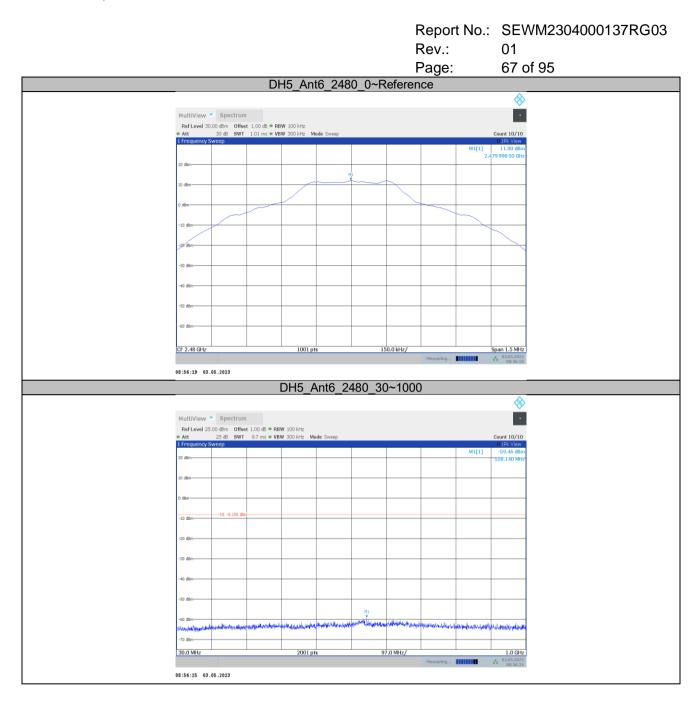
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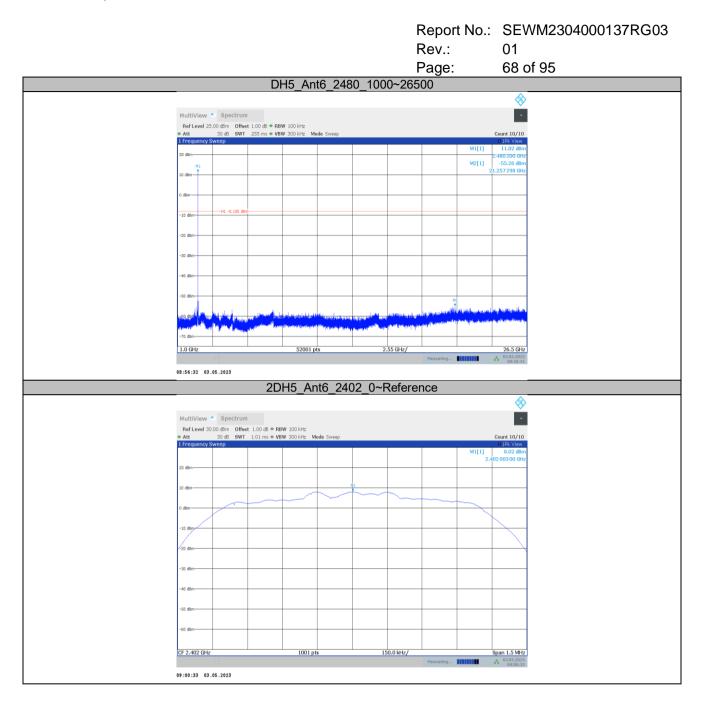
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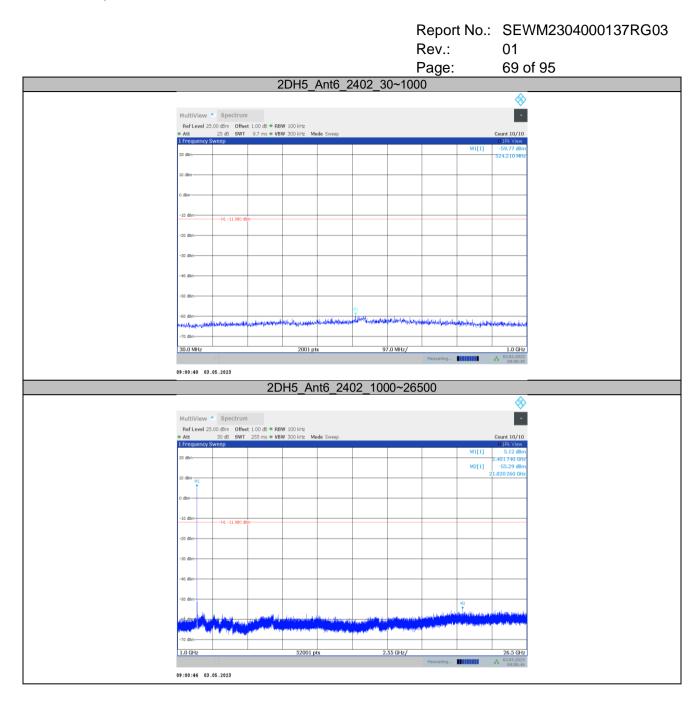
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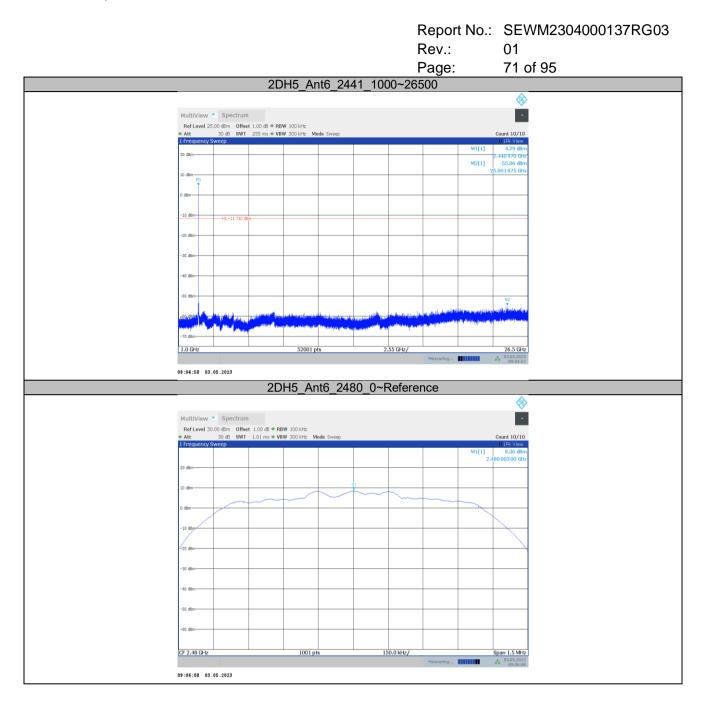
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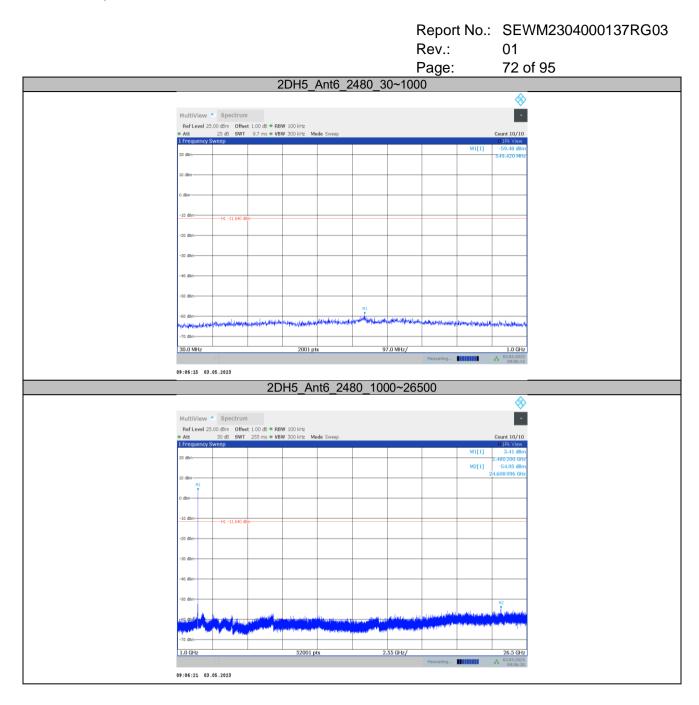
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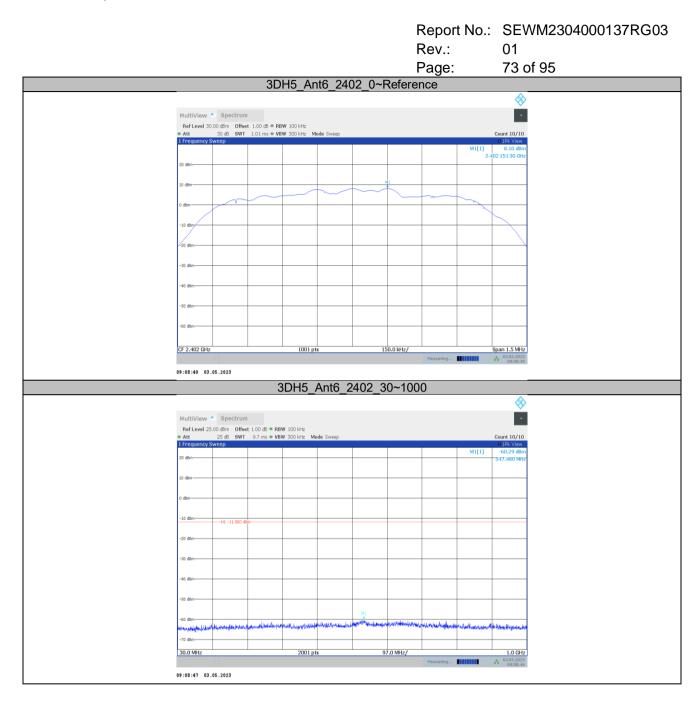
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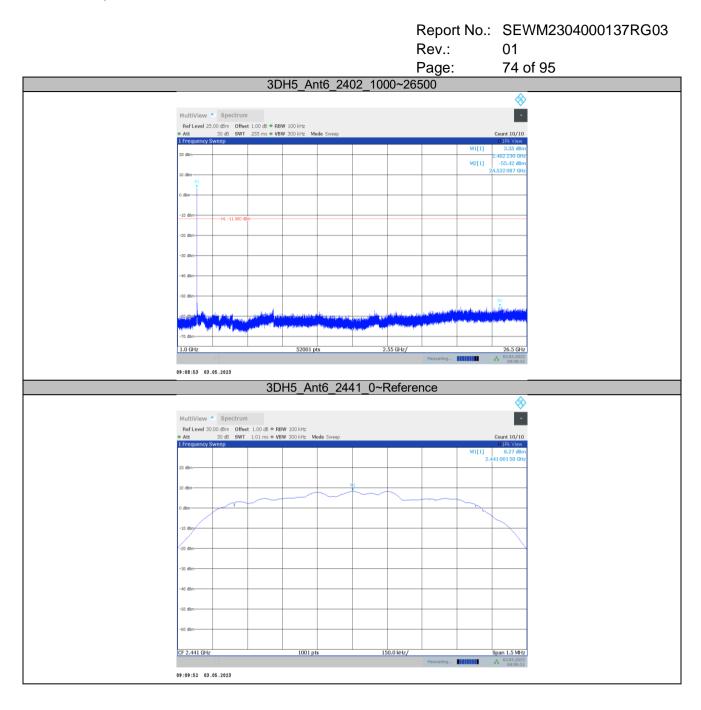
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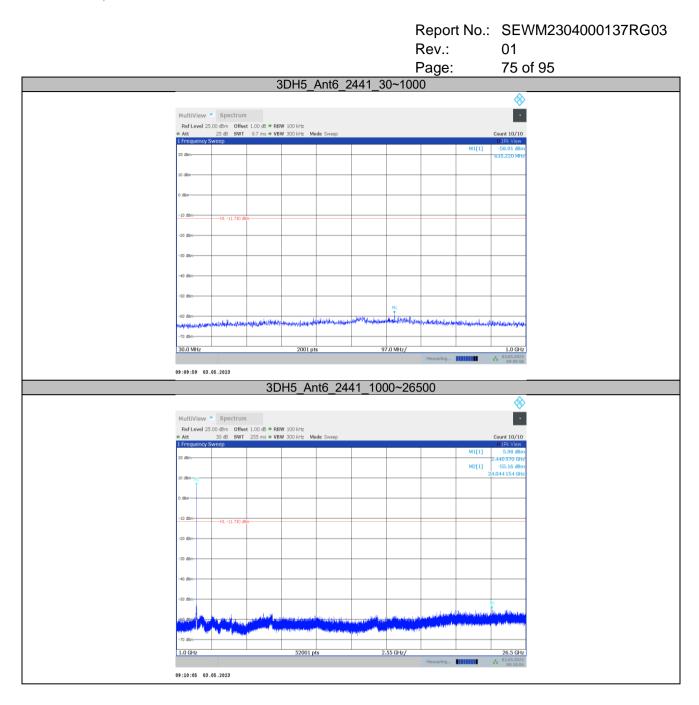
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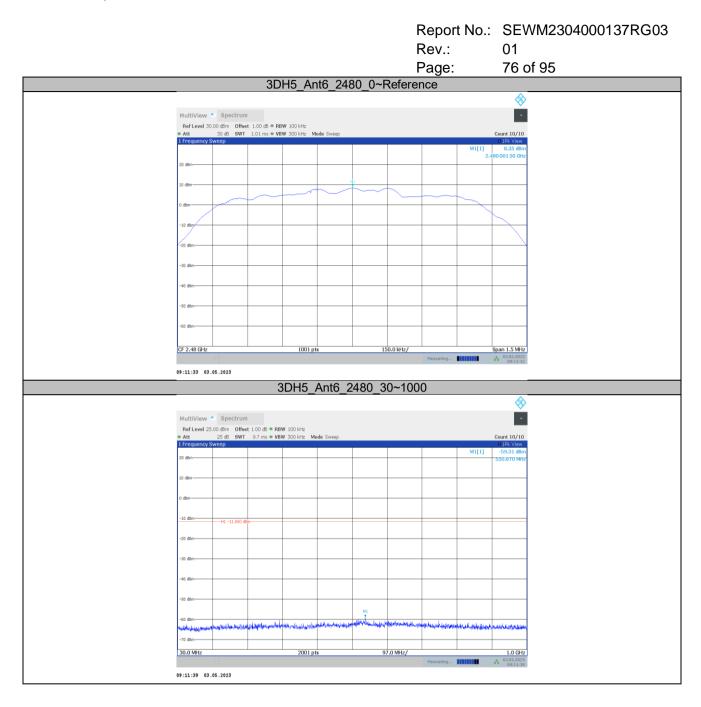
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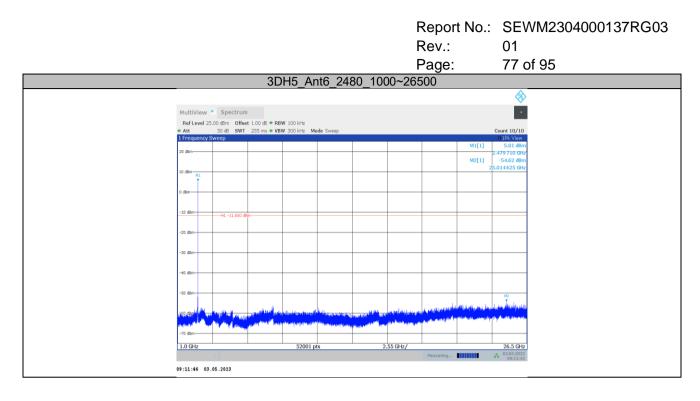




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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.89	3.76	76.86	1.14
DH5	Ant6	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.75	77.07	1.13
2DH5	Ant6	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.75	77.07	1.13
3DH5	Ant6	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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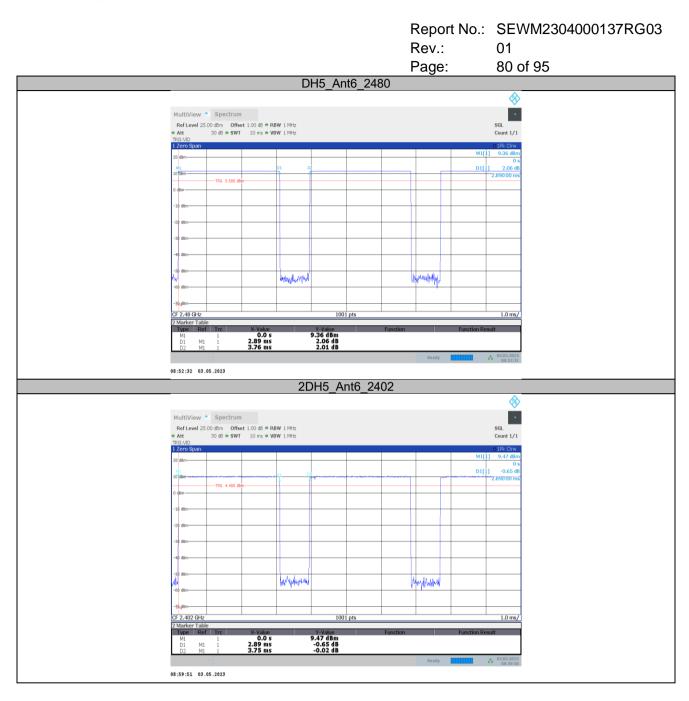


Test Graphs



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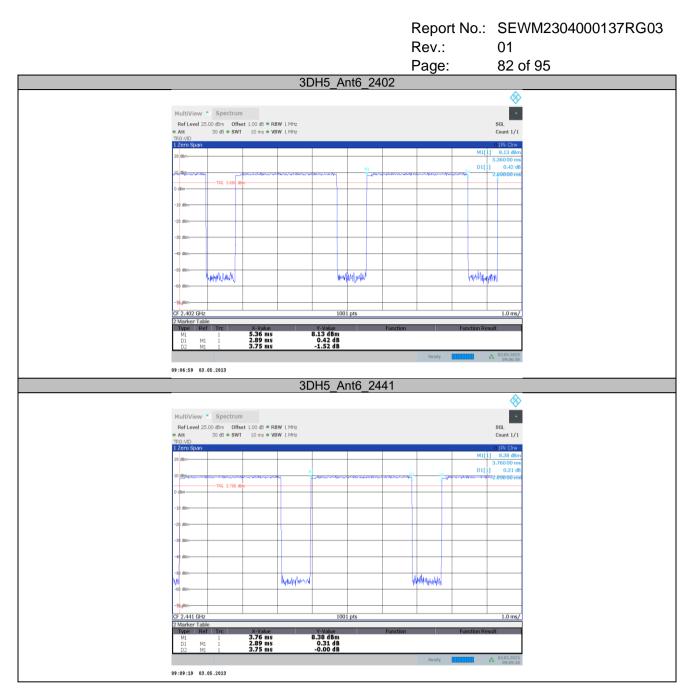
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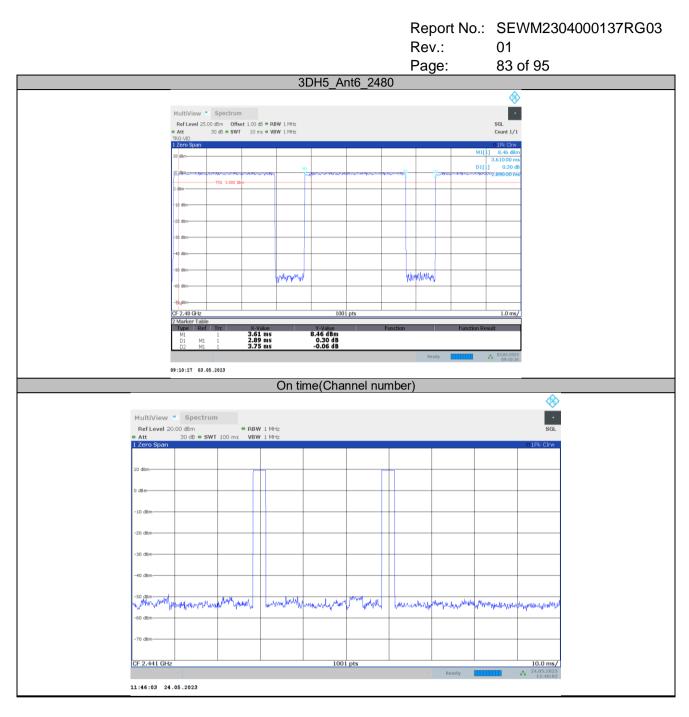
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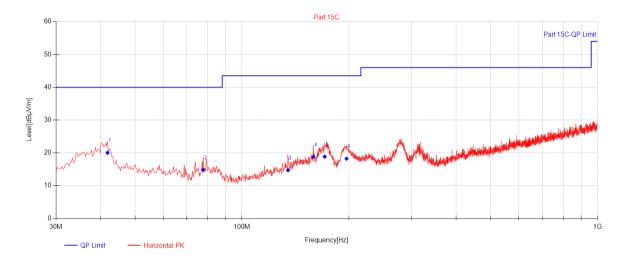
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK _Channel 78

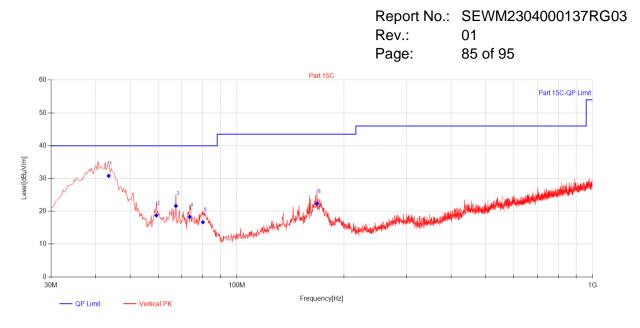


Data	ı List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.8825	42.33	-36.25	13.91	20.00	40.00	20.00	154	171	Horizontal
2	77.7725	41.02	-35.83	9.63	14.82	40.00	25.18	126	202	Horizontal
3	134.76	37.16	-35.60	13.13	14.70	43.50	28.80	258	282	Horizontal
4	158.7675	40.03	-35.31	14.10	18.82	43.50	24.68	147	360	Horizontal
5	170.8925	39.56	-35.15	14.43	18.85	43.50	24.65	185	212	Horizontal
6	196.84	42.82	-35.24	10.66	18.23	43.50	25.27	196	212	Horizontal



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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	43.58	53.26	-36.22	13.77	30.81	40.00	9.19	251	240	Vertical				
2	59.3425	42.33	-36.38	12.80	18.75	40.00	21.25	145	7	Vertical				
3	67.345	46.81	-36.49	11.33	21.65	40.00	18.35	126	107	Vertical				
4	73.65	44.22	-36.20	10.26	18.29	40.00	21.71	133	240	Vertical				
5	80.1975	43.03	-35.65	9.29	16.68	40.00	23.32	265	188	Vertical				
6	167.9825	43.18	-35.18	14.36	22.36	43.50	21.14	288	0	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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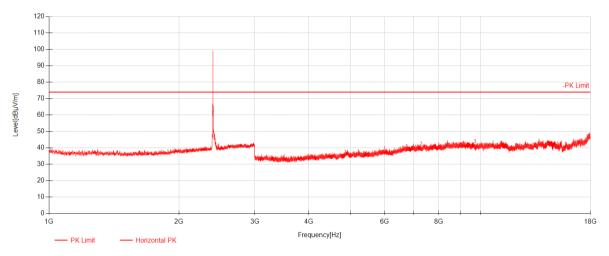
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Transmitter emission Above 1GHz

GFSK_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804.0000	48.24	32.33	-45.54	35.03	74.00	38.97	214	34	Horizontal				
2	4804.0000	-	-	-	10.27	54.00	43.73	-	-	Horizontal				
3	7206.0000	46.86	36.60	-43.44	40.02	74.00	33.98	158	53	Horizontal				
4	7206.0000	-	-	-	15.26	54.00	38.74	-	-	Horizontal				
5	9608.0000	42.70	38.43	-39.65	41.48	74.00	32.52	186	162	Horizontal				
6	9608.0000	-	-	-	16.72	54.00	37.28	-	-	Horizontal				



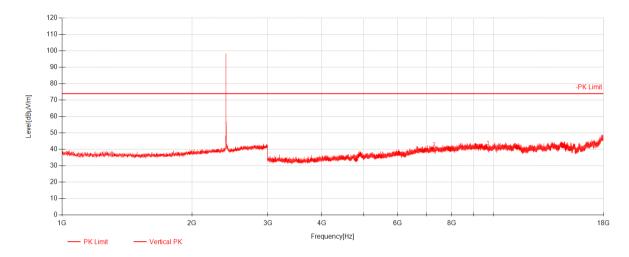
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804.0000	46.76	32.33	-45.54	33.55	74.00	40.45	236	357	Vertical				
2	4804.0000	-	-	-	8.79	54.00	45.21	-	-	Vertical				
3	7206.0000	47.33	36.60	-43.44	40.49	74.00	33.51	218	163	Vertical				
4	7206.0000	-	-	-	15.73	54.00	38.27	-	-	Vertical				
5	9608.0000	42.37	38.43	-39.65	41.15	74.00	32.85	142	309	Vertical				
6	9608.0000	-	-	-	16.39	54.00	37.61	-	-	Vertical				



GFSK_Channel 00

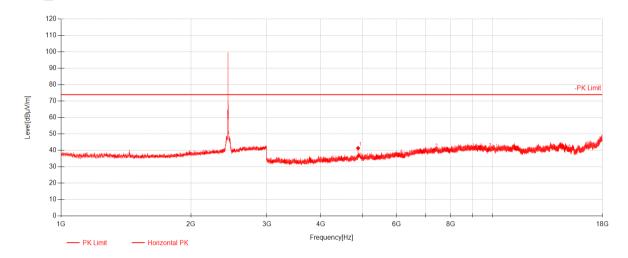
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4882.0000	54.27	32.55	-45.53	41.29	74.00	32.71	125	71	Horizontal				
2	4882.0000	-	-	-	16.53	54.00	37.47	-	-	Horizontal				
3	7323.0000	47.31	36.53	-43.67	40.17	74.00	33.83	169	215	Horizontal				
4	7323.0000	-	-	-	15.41	54.00	38.59	-	-	Horizontal				
5	9764.0000	41.73	38.26	-39.47	40.52	74.00	33.48	182	356	Horizontal				
6	9764.0000	-	-	-	15.76	54.00	38.24	-	-	Horizontal				



GFSK_Channel 39

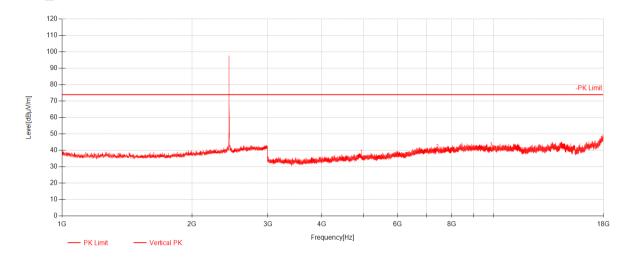
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4882.0000	49.64	32.55	-45.53	36.66	74.00	37.34	211	252	Vertical				
2	4882.0000	-	-	-	11.90	54.00	42.10	-	-	Vertical				
3	7323.0000	47.19	36.53	-43.67	40.05	74.00	33.95	136	7	Vertical				
4	7323.0000	-	-	-	15.29	54.00	38.71	-	-	Vertical				
5	9764.0000	42.07	38.26	-39.47	40.86	74.00	33.14	258	0	Vertical				
6	9764.0000	-	-	-	16.10	54.00	37.90	-	-	Vertical				



GFSK_Channel 39

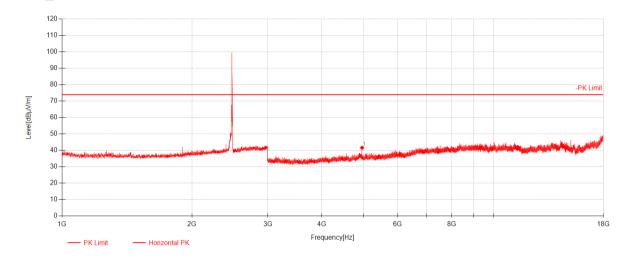
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	54.40	32.77	-45.60	41.57	74.00	32.43	129	36	Horizontal				
2	4960.0000	-	-	-	16.81	54.00	37.19	-	-	Horizontal				
3	7440.0000	45.74	36.47	-43.30	38.91	74.00	35.09	144	127	Horizontal				
4	7440.0000	-	-	-	14.15	54.00	39.85	-	-	Horizontal				
5	9920.0000	41.87	38.38	-39.31	40.94	74.00	33.06	175	326	Horizontal				
6	9920.0000	-	-	-	16.18	54.00	37.82	-	-	Horizontal				



GFSK_Channel 78

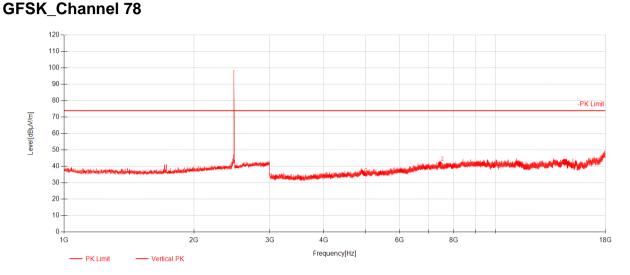
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	48.19	32.77	-45.60	35.36	74.00	38.64	203	145	Vertical				
2	4960.0000	-	-	-	10.60	54.00	43.40	-	-	Vertical				
3	7440.0000	48.74	36.47	-43.30	41.91	74.00	32.09	126	0	Vertical				
4	7440.0000	-	-	-	17.15	54.00	36.85	-	-	Vertical				
5	9920.0000	41.19	38.38	-39.31	40.26	74.00	33.74	172	163	Vertical				
6	9920.0000	-	-	-	15.50	54.00	38.50	-	-	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

2) All channels have been tested, but only the worst case data displayed in this report.



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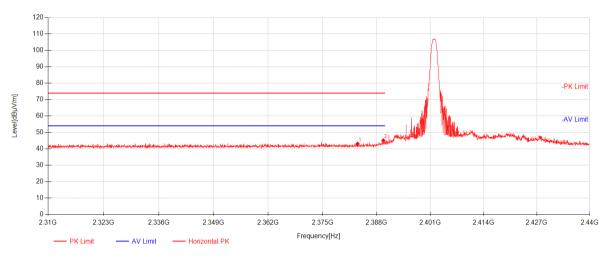
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Restricted bands around fundamental frequency

GFSK_Channel 00



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.45	39.22	27.43	-23.57	43.08	74.00	30.92	125	4	Horizontal
2	2383.45	-	-	-	18.32	54.00	35.68	-	-	Horizontal
3	2389.6467	41.26	27.43	-23.57	45.12	74.00	28.88	125	4	Horizontal
4	2389.6467	-	-	-	20.36	54.00	33.64	-	-	Horizontal



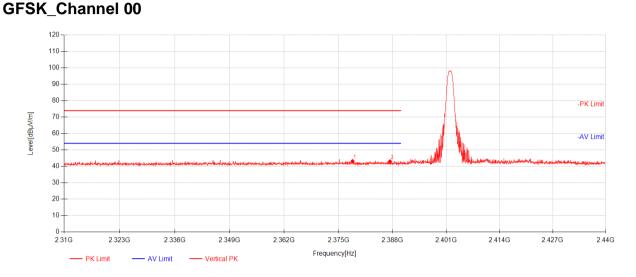
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2378.38	39.30	27.43	-23.57	43.16	74.00	30.84	196	36	Vertical				
2	2378.38	-	-	-	18.40	54.00	35.60	-	-	Vertical				
3	2387.3933	39.14	27.43	-23.57	43.00	74.00	31.00	196	36	Vertical				
4	2387.3933	-	-	-	18.24	54.00	35.76	-	-	Vertical				



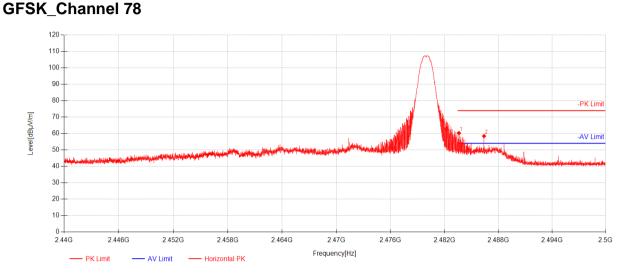
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.62	56.10	27.72	-23.54	60.27	74.00	13.73	166	46	Horizontal
2	2483.62	-	-	-	35.51	54.00	18.49	-	-	Horizontal
3	2486.41	54.24	27.73	-23.54	58.42	74.00	15.58	166	46	Horizontal
4	2486.41	-	-	-	33.66	54.00	20.34	-	-	Horizontal



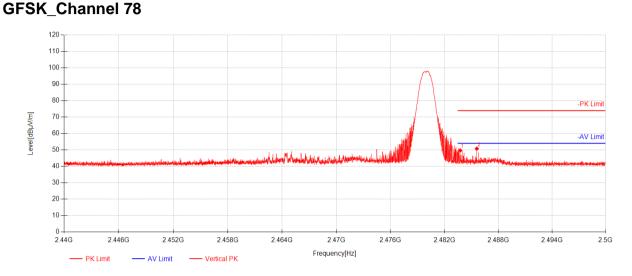
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.755	45.49	27.72	-23.54	49.66	74.00	24.34	155	248	Vertical
2	2483.755	-	-	-	24.90	54.00	29.10	-	-	Vertical
3	2485.6075	46.58	27.72	-23.54	50.76	74.00	23.24	155	248	Vertical
4	2485.6075	-	-	-	26.00	54.00	28.00	-	-	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

---End of Report---



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