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TEST REPORT

Application No.:	SEWA2204000011RG
Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description:	Multi-mode Smart LTE Module
Model No.:	SC690A-NA
Trade Mark:	Quectel
FCC ID:	XMR2022SC690ANA
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2022/08/05
Date of Test:	2022/08/15 to 2022/09/01
Date of Issue:	2022/09/06
Test Result :	PASS *

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		2022/09/06		Original

Prepared By	(Tizzy Song) / Test Engineer	
Checked By	(Well Wei) / Reviewer	



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2 Test Summary

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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 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	Reporting only
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) 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 (2013) Section 7.8.8.3	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.		
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233		
Manufacturer:	Quectel Wireless Solutions Co., Ltd.		
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233		

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:	Lves 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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3.4 General Description of EUT

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Model No.:				
	SC690A-NA	SC690A-NA		
Trade Mark:	Quectel	Quectel		
Hardware Version:	R1.0			
Software Version:	SC690ANAPAR02A02			
	RF Conducted	867269050014144		
IMEI:	RSE & AC power line	867269050012684 867269050012692		
Operation Frequency:	-fc = "Operating Frequence	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 V5.1	Bluetooth V5.1		
Modulation Technique:	Frequency Hopping Sprea	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPS	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79	79		
Hopping Channel Type:	Adaptive Frequency Hopp	Adaptive Frequency Hopping systems		
Antenna Type:	External Antenna	External Antenna		
	0.47dBi	0.47dBi		
Antenna Gain:	Note: The antenna gain are der by the manufacturer.	The antenna gain are derived from the gain information report provided		
RF Cable:	1dB	1dB		

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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		
Damarla							

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(℃)	Voltage(V)		
NTNV	22~23	3.8		
Remark:				
NV: Normal Voltage				
NT: Normal Temperature				

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Quectel	SMART-EVB-G5		
Adaptor	Something High Innovation (B.V.I.) Co., Ltd	P12F050200		
Remark: all above the information of table are provided by client.				



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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 External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.47dBi. *

*Note:The antenna gain are derived from the gain information report provided by the manufacturer. 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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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 Pseudorandom 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 pseudorandom 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.

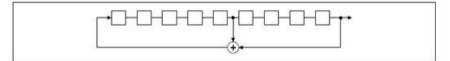
> Number of shift register stages: 9

> 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



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Each frequency used equally on the average by each transmitter.

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: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	lkHz				
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:						

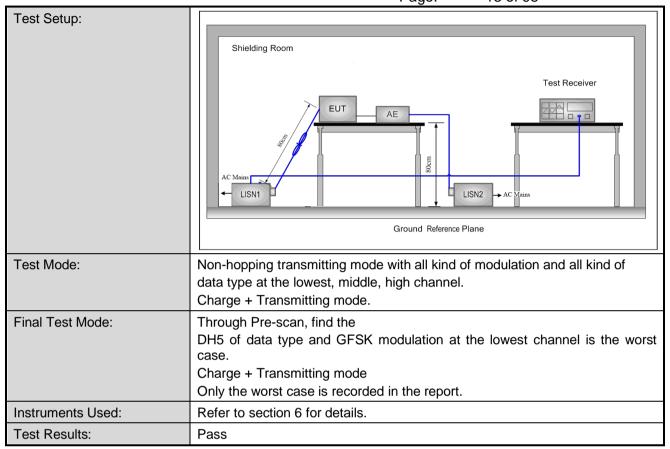


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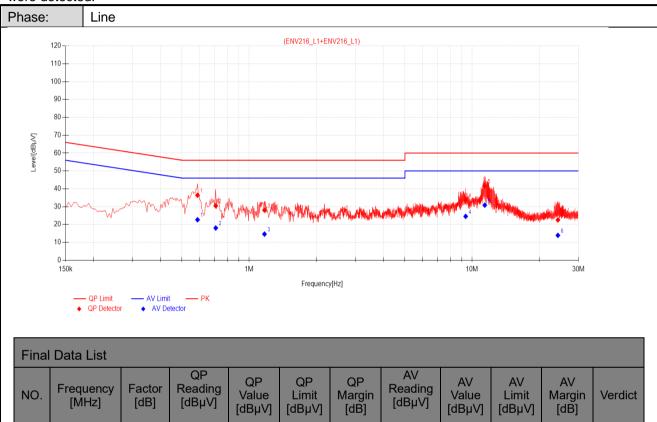
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Measurement Data

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.



1	0.5865	10.51
2	0.7080	10.57
3	1.1715	10.74

9.3660

11.4090

24.2880

6 Remark:

4

5

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

36.41

30.50

28.08

33.69

41.70

22.56

56.00

56.00

56.00

60.00

60.00

60.00

19.59

25.50

27.92

26.31

18.30

37.44

12.17

7.50

3.91

13.92

20.26

3.66

22.68

18.07

14.65

24.57

30.86

13.95

46.00

46.00

46.00

50.00

50.00

50.00

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

25.90

19.93

17.34

23.04

31.10

12.27

3. Margin = Limit[dBµV] – Value[dBµV]

10.65

10.60

10.29



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23.32

27.93

31.35

25.43

19.14

36.05

PASS

PASS

PASS

PASS

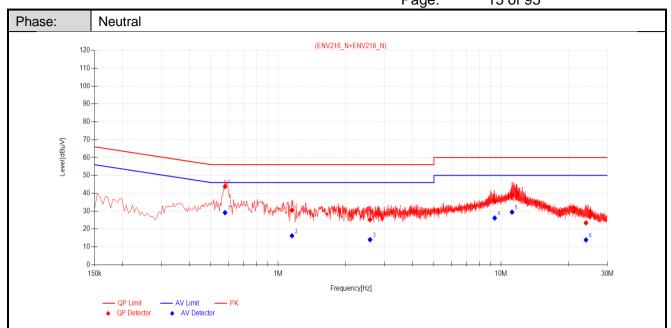
PASS

PASS

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Fin	Final 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	0.5775	10.71	33.03	43.74	56.00	12.26	18.44	29.15	46.00	16.85	PASS
2	1.1535	10.74	19.79	30.53	56.00	25.47	5.46	16.20	46.00	29.80	PASS
3	2.5845	10.75	14.49	25.24	56.00	30.76	3.27	14.02	46.00	31.98	PASS
4	9.3660	10.64	24.89	35.53	60.00	24.47	15.49	26.13	50.00	23.87	PASS
5	11.2065	10.66	28.40	39.06	60.00	20.94	18.79	29.45	50.00	20.55	PASS
6	24.0630	10.51	12.94	23.45	60.00	36.55	3.41	13.92	50.00	36.08	PASS

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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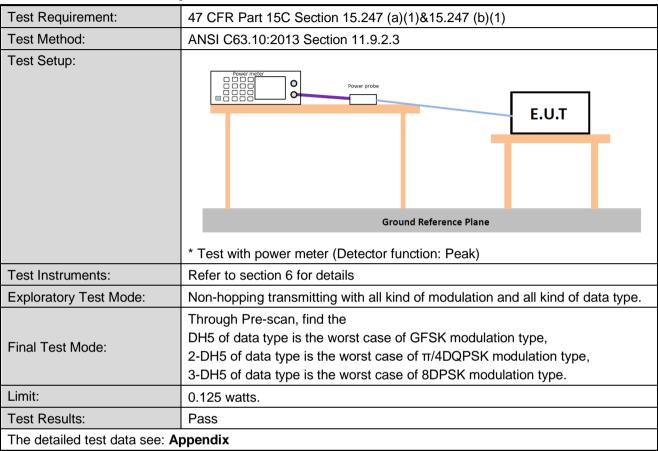
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4.4 Conducted Output Power





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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 C63.10:2013 Section 6.9.2 and 6.9.3				
Test Setup:	PC				
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 $\pi/4DQPSK$ 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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Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
Test Setup:	PC PC Communication BF Control Unit BF Control Unit C Fourier C Fourier				
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	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 $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	2/3 of the 20dB bandwidth				
	Remark: the transmission power is less than 0.125W.				
Test Results:	Pass				
The detailed test data see: A	ppendix				

4.6 Carrier Frequencies Separationy

S



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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10:2013 Section 7.8.3 Test Setup: SGS Test system Vector Signal Genera 0 Spectrum Analyzer PC 000 Communication Terter -RF Control Unit 0 0 0 E.U.T Analog Signal Generator DC Powe 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

S



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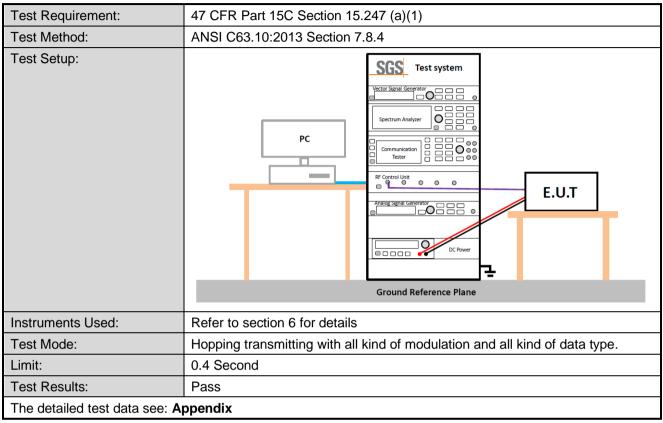
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4.8 Dwell Time





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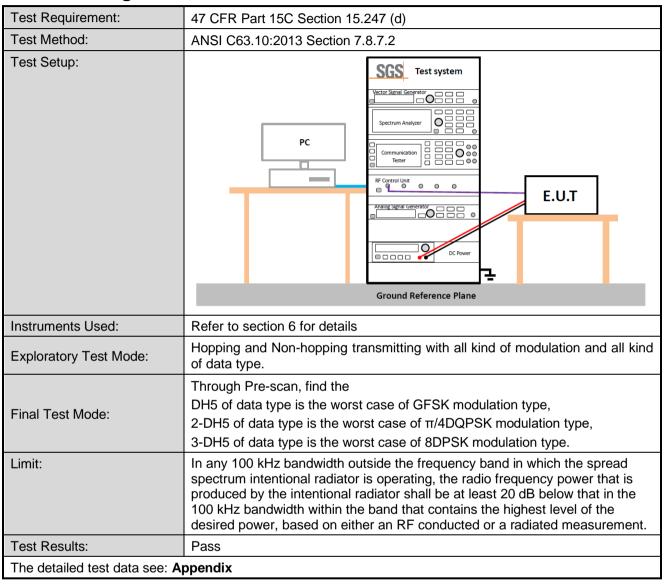
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4.9 Band-edge for RF Conducted Emissions





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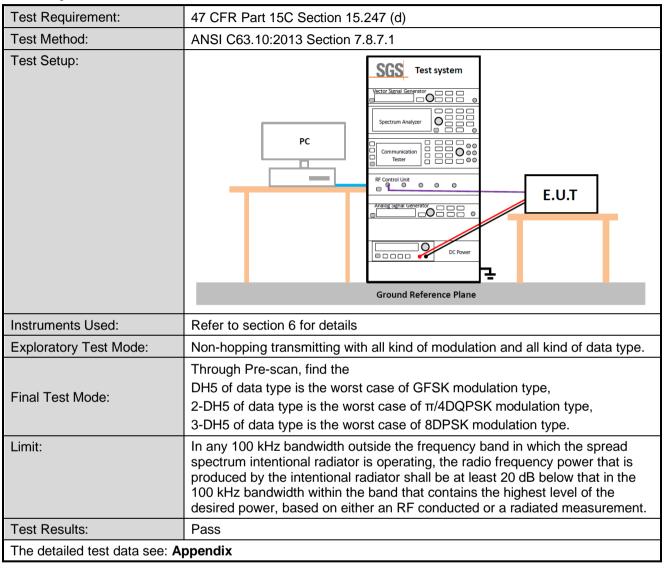
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4.10 Spurious RF Conducted Emissions





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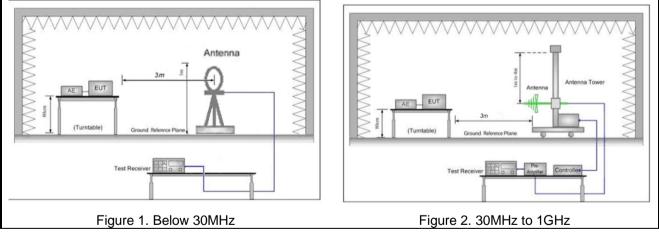
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section	on 6.4 / 6.5 / 6.6					
Test Site:	Measurement Distance: 3	m (Semi-Anechoid	: Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency Field strength Limit (microvolt/meter) (dBuV/m) Remark distance (r						
	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						
	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 emission level radiated by the device.						

Test Setup:

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	Im or 3m Im or
	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 enterpret to EUT is 1m for measurements a 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.
	 Repeat above procedures until all frequencies measured was complete. 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.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements Below 1000MHz
	 RBW = 120 kHz VBW = 300 kHz
	 VDV - SUCKHZ Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz



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	• RBW = 1 MHz
	• VBW ≥ 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 pulese, L_1 is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
wode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test dat	a see: Appendix



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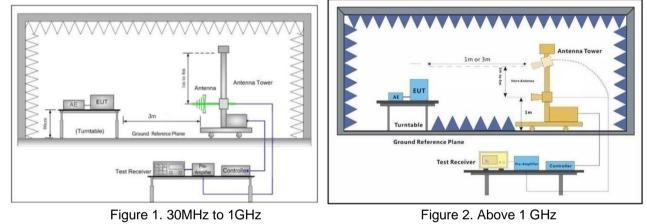
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4.12Restricted bands around fundamental frequency

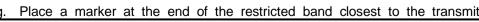
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section 7.8.8.3						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
		Peak Value					

Test Setup:

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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.
	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 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.
	a.	Place a marker at the 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 = 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 -30MHz)	
8	Radiated Emission	± 4.80dB (30M -1GHz)	
		± 4.80dB (1GHz to 18GHz)	
		± 4.80dB (Above 18GHz)	

Remark:

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The Ulab (lab Uncertainty) is less than Ucispi/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							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
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	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
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		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14		
Wideband Radio Communication Tester		CMW500	SUWI-01-16-05	2022/02/14	2023/02/13		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		

CE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	



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RSE Test System							
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-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	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

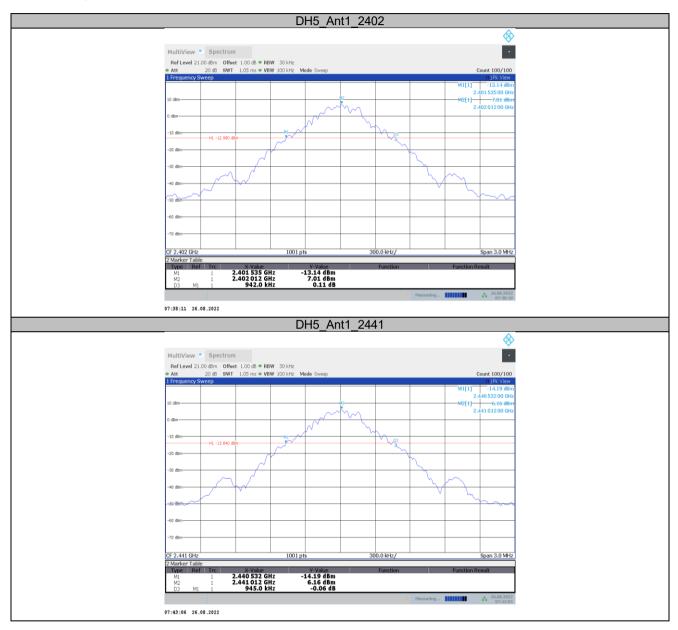
TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict	
		2402	0.94	2401.54	2402.48		
DH5	Ant1	2441	0.94	2440.53	2441.48		
		2480	0.94	2479.53	2480.47		
	Ant1	5 Ant1	2402	1.28	2401.36	2402.65	Departing
2DH5			2441	1.29	2440.36	2441.65	Reporting only
		2480	1.28	2479.36	2480.65	Only	
3DH5	Ant1	2402	1.29	2401.35	2402.64		
		2441	1.29	2440.35	2441.64		
		2480	1.29	2479.35	2480.64		



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Test Graphs



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict		
	Ant1	2402	0.85	2401.570	2402.420	Reporting only		
DH5		2441	0.852	2440.567	2441.419			
		2480	0.85	2479.567	2480.417			
	Ant1	2402	1.173	2401.408	2402.581			
2DH5		2441	1.17	2440.408	2441.579			
		2480	1.172	2479.407	2480.579			
3DH5				2402	1.177	2401.410	2402.586	
	Ant1	2441	1.174	2440.410	2441.585			
		2480	1.176	2479.408	2480.585			



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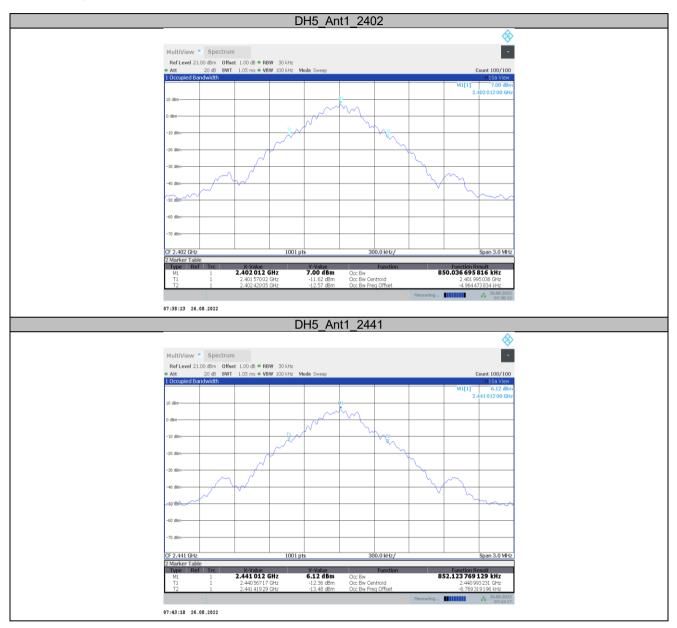
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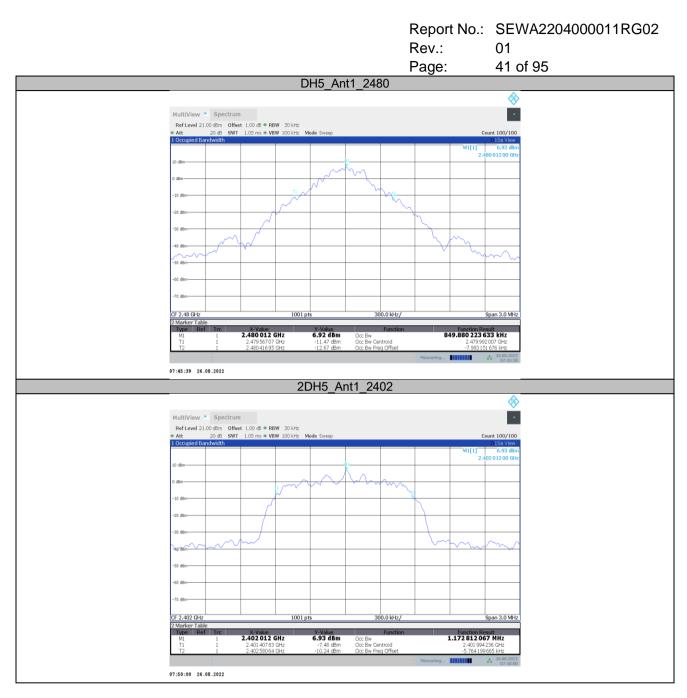
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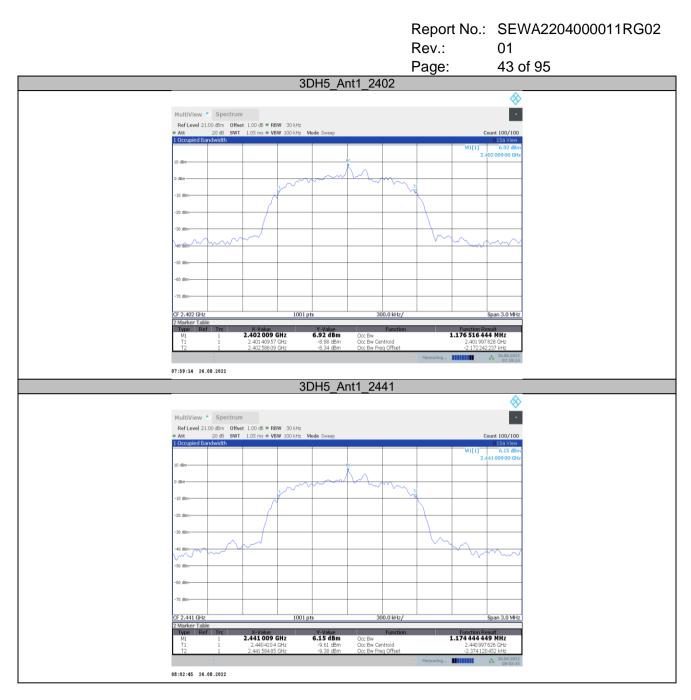


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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	9.26	≤20.97	PASS
DH5	Ant1	2441	8.98	≤20.97	PASS
		2480	9.34	≤20.97	PASS
		2402	10.90	≤20.97	PASS
2DH5	Ant1	2441	10.78	≤20.97	PASS
		2480	11.03	≤20.97	PASS
		2402	11.08	≤20.97	PASS
3DH5	Ant1	2441	10.80	≤20.97	PASS
		2480	11.11	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1	≥0.630	PASS
2DH5	Ant1	Нор	0.992	≥0.858	PASS
3DH5	Ant1	Нор	1.326	≥0.862	PASS



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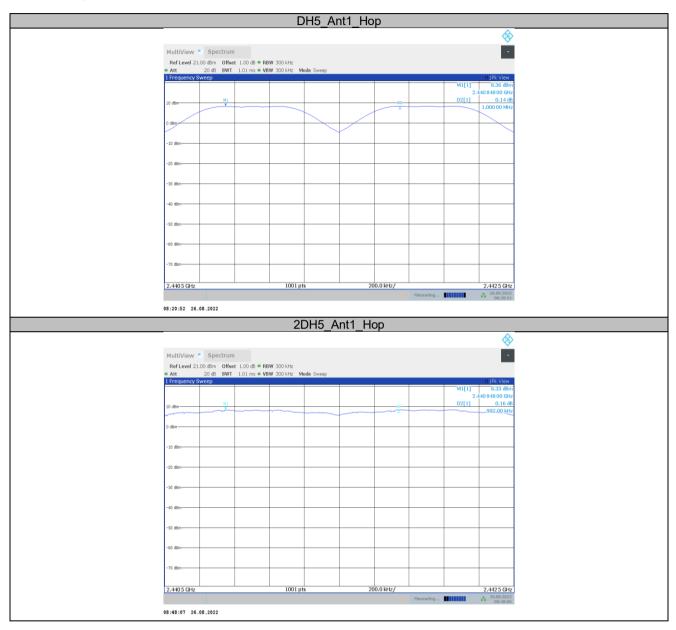
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		3DH5_Ant1_Hop		
MultiView	 Spectrum 			
	1.00 dBm Offset 1.00 dB = RBW 300 kH;			
• Att	20 dB SWT 1.01 ms . VBW 300 kH:			
1 Frequency	Sweep		M1[1]	01Pk View 8.32 dBm
			2.4	40 830 00 GHz
10 dBm	M1		D2[1]	0.14 dB 1.326 00 MHz
				and and the second
0 d8m				
-10 dBm				
-20 dBm				
-30 dBm				
-30 UBM				
-40 dBm-				
-50 dBm				
-60 d8m				
-70 dBm				
2.440 5 GHz	10	01 pts 200.0 k		2.4425 GHz
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Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Нор	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
2DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant1	Нор	2.88	106.67	0.307	≤0.4	PASS



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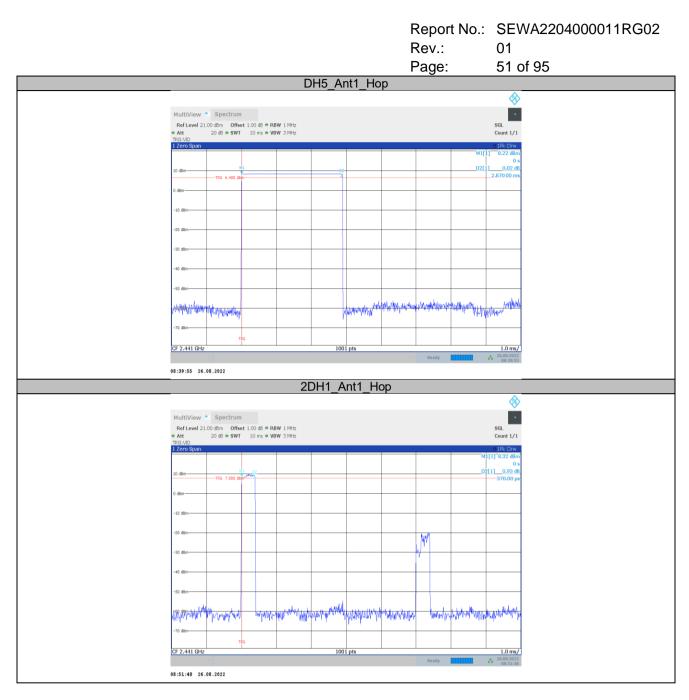
Test Graphs



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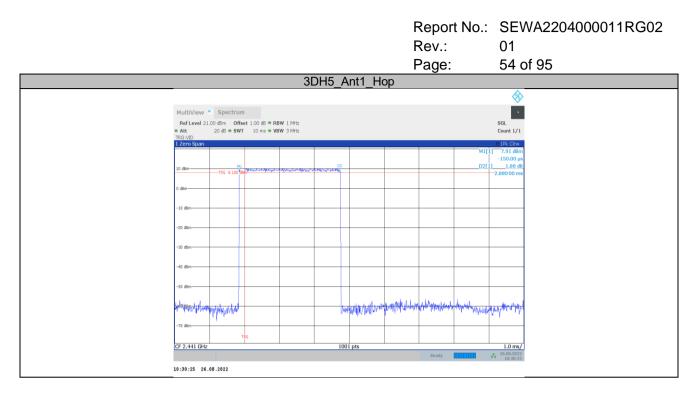


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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	≥15	PASS
2DH5	Ant1	Нор	79	≥15	PASS
3DH5	Ant1	Нор	79	≥15	PASS



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Test Graphs

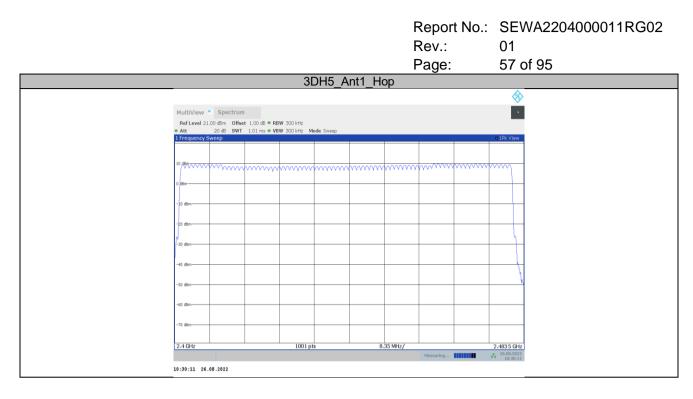


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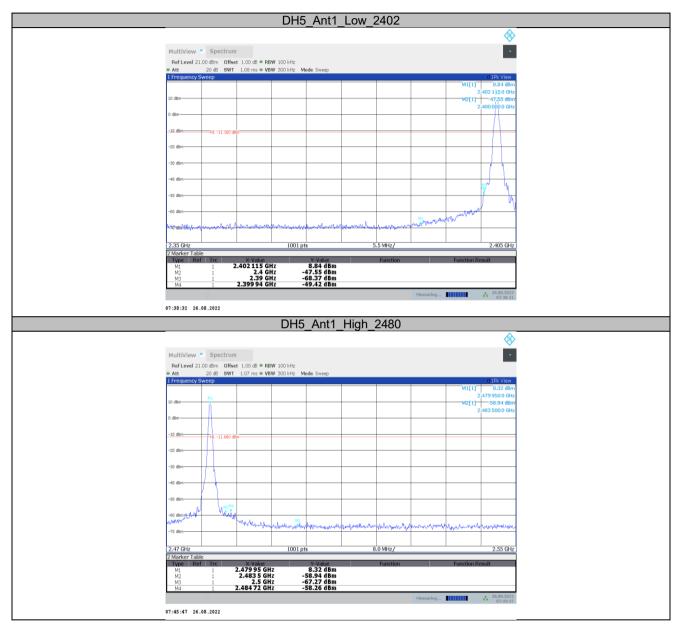
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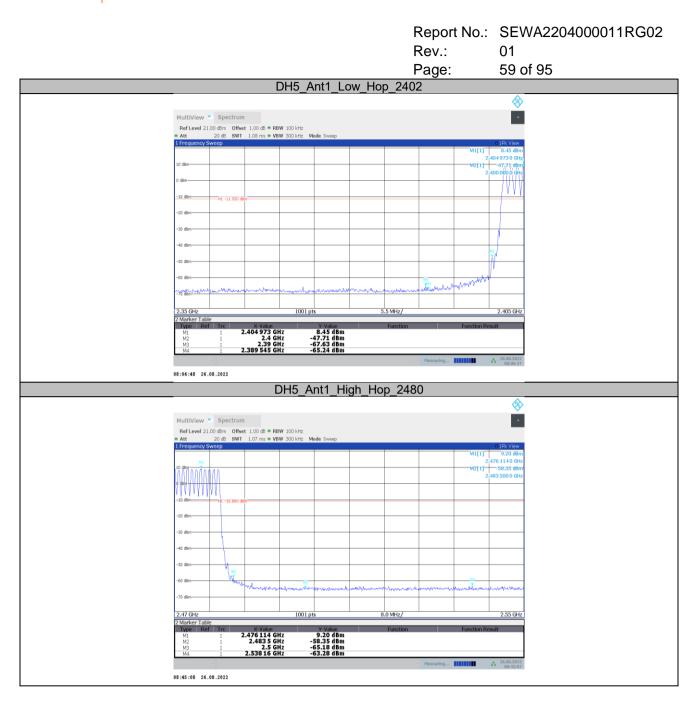
Band edge measurements

Test Graphs





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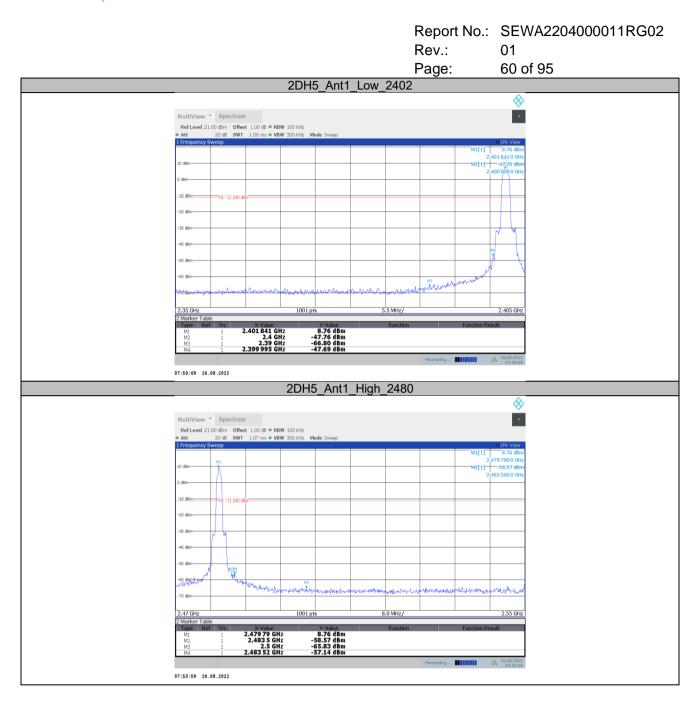


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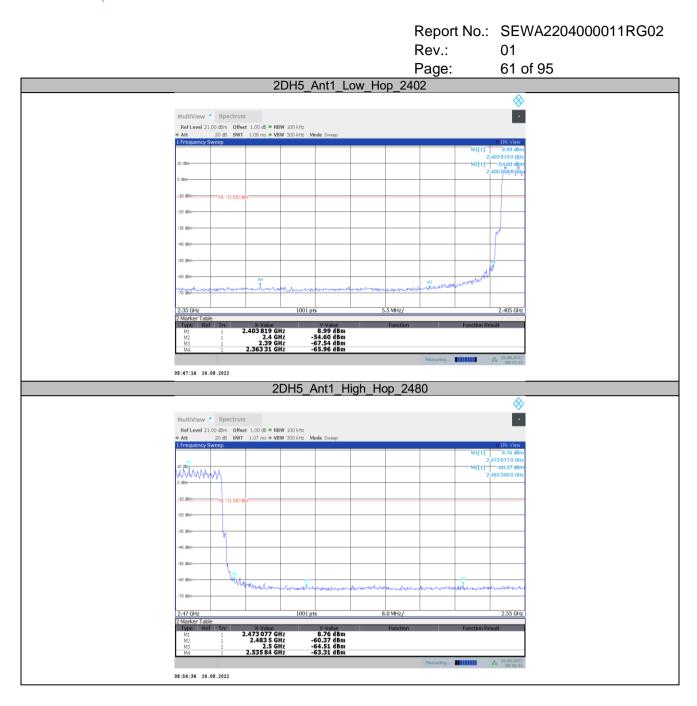


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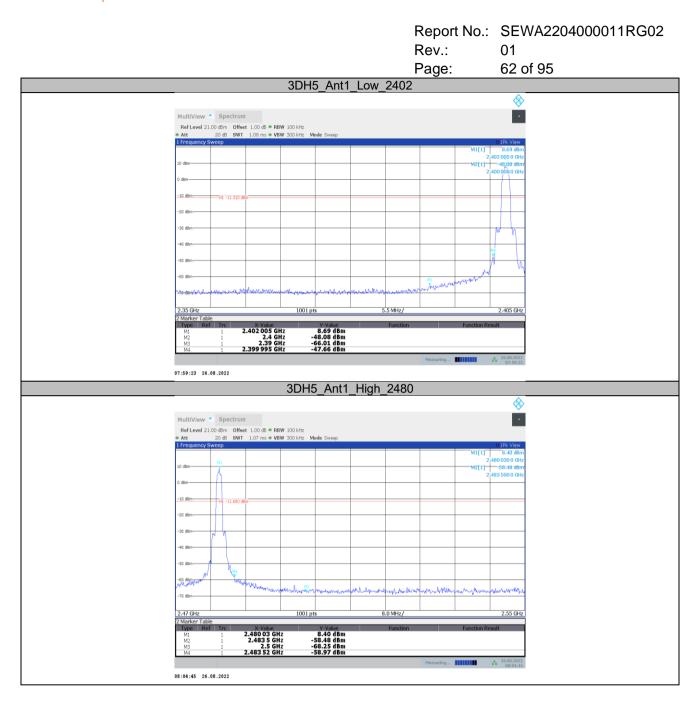


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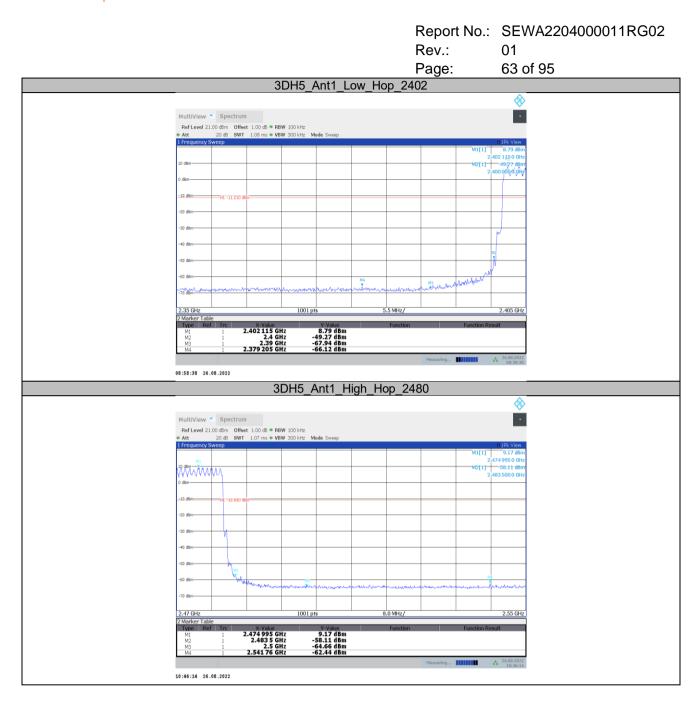




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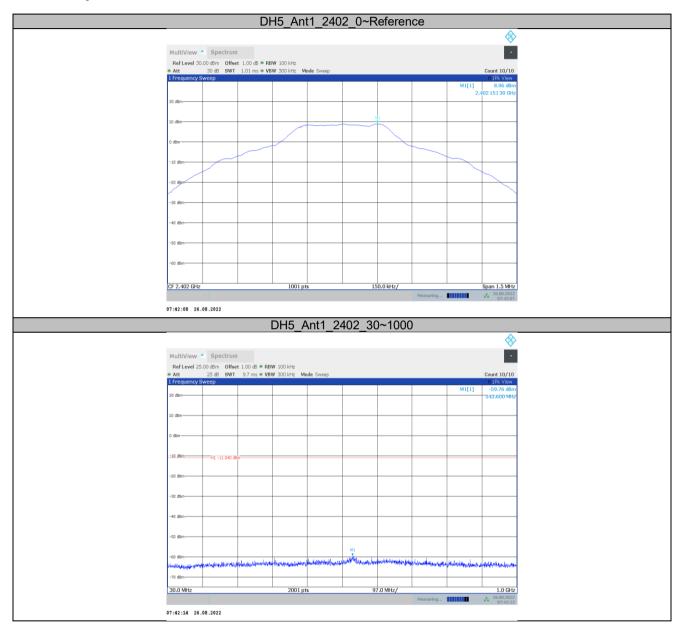
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 Report No.:
 SEWA2204000011RG02

 Rev.:
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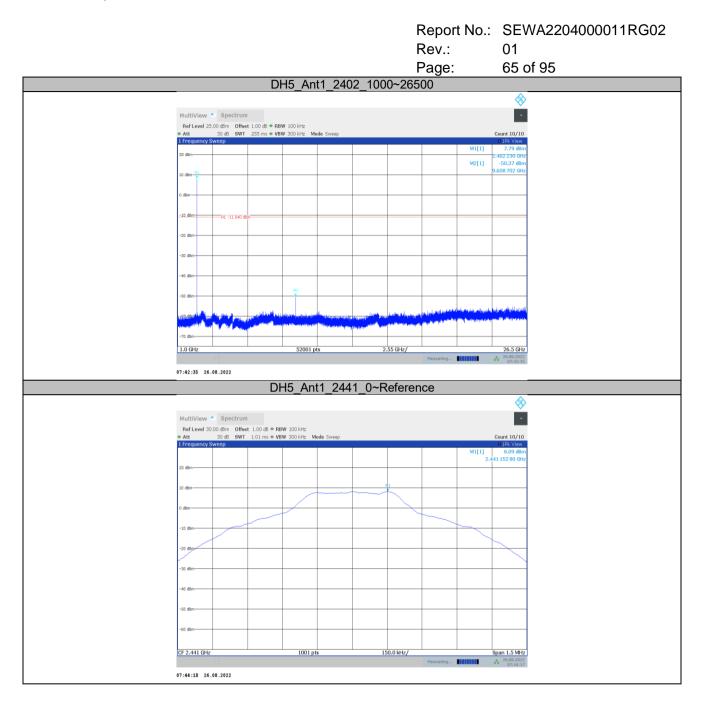
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 64 of 95

Conducted Spurious Emission Test Graphs





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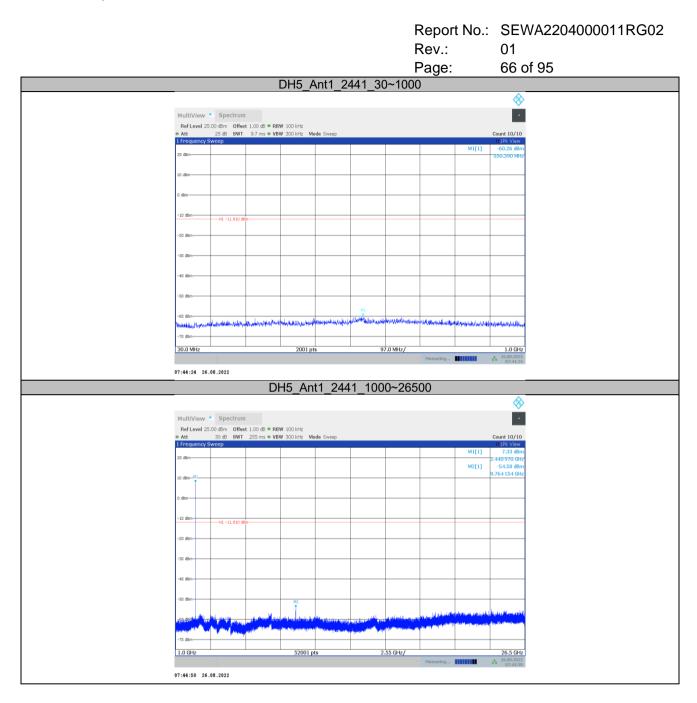




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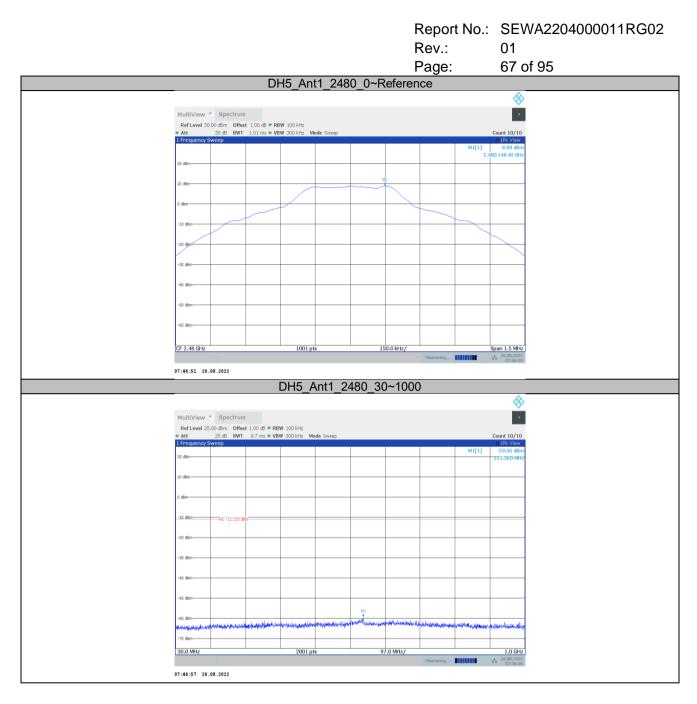




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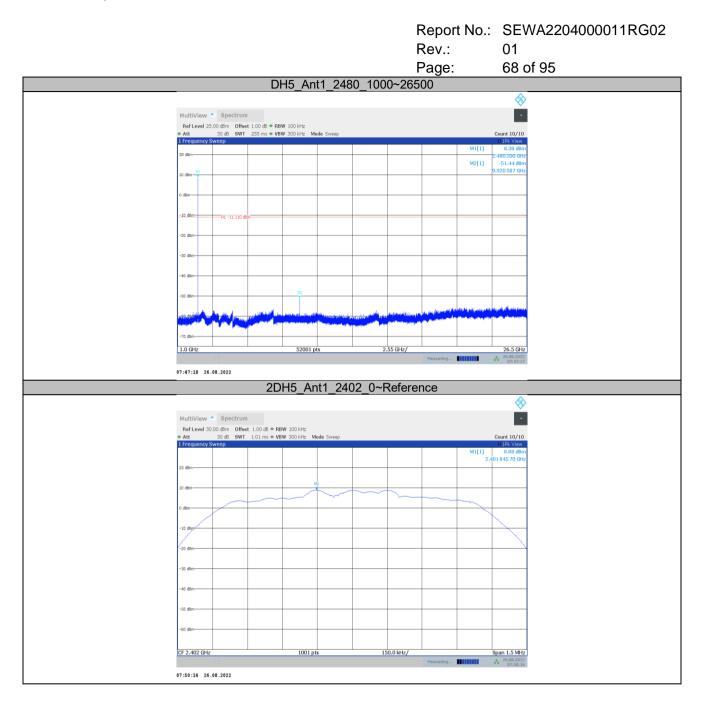




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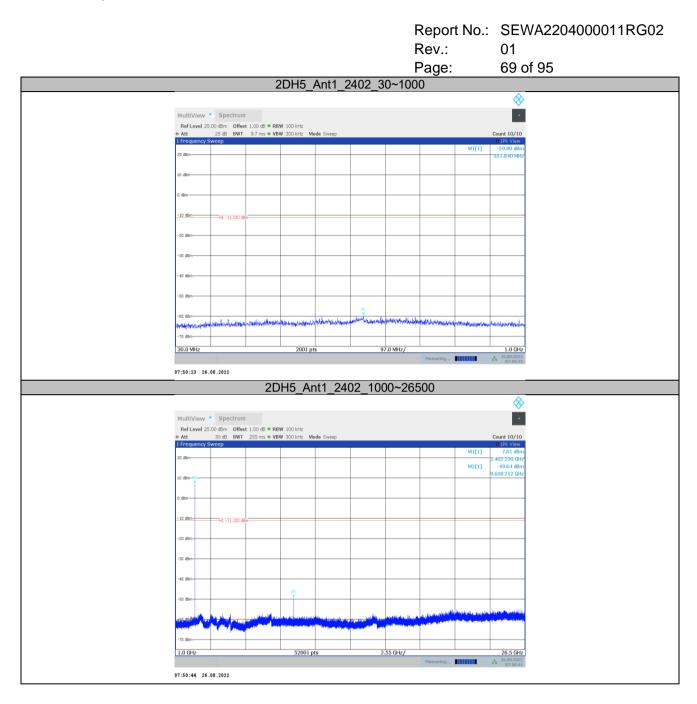
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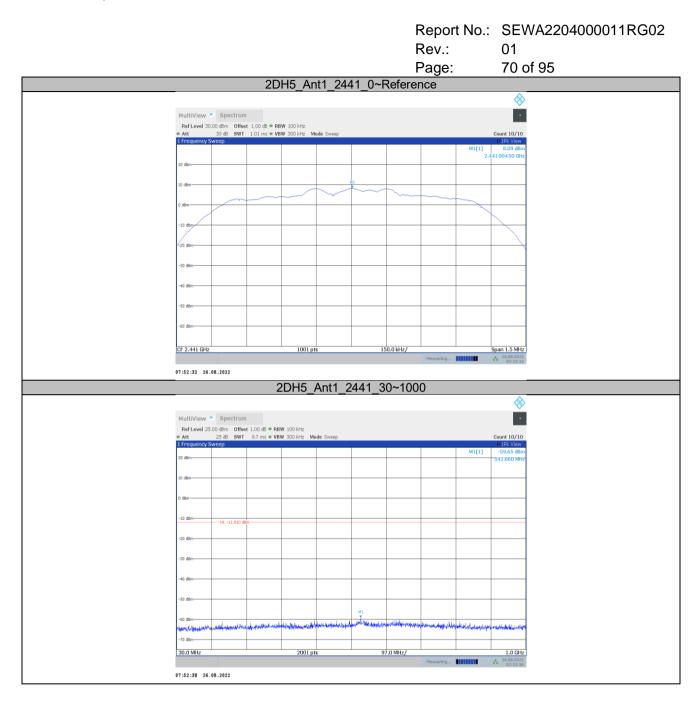


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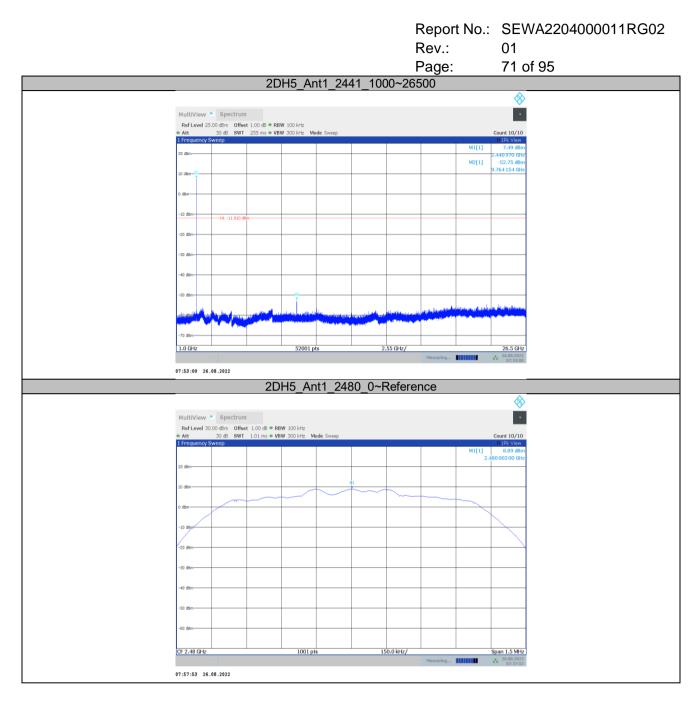




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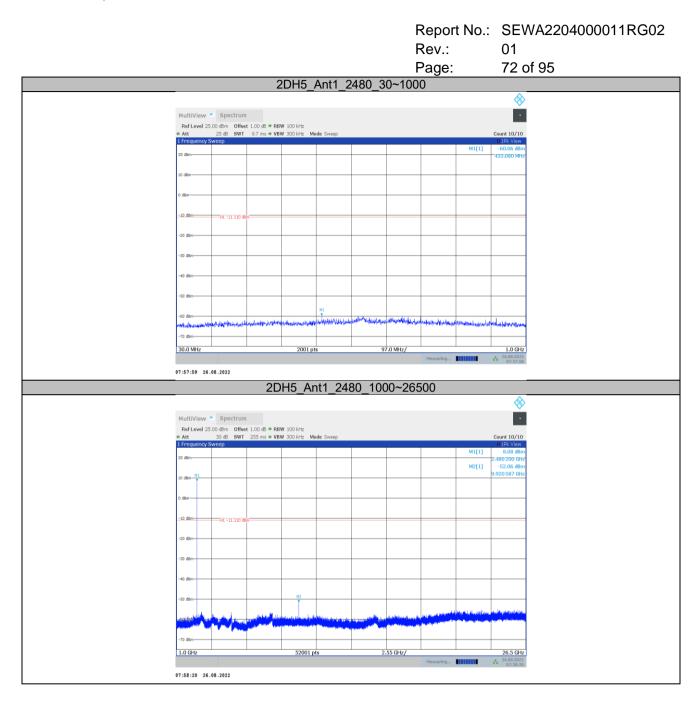
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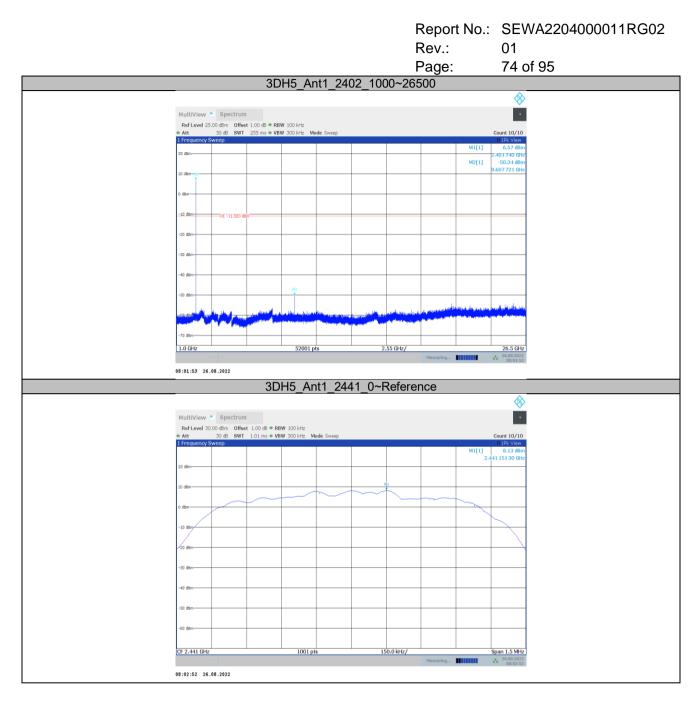
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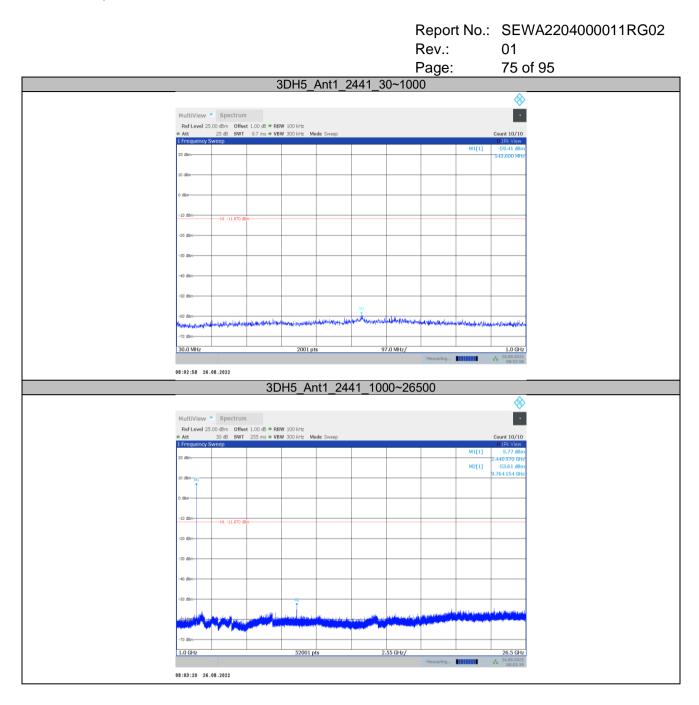




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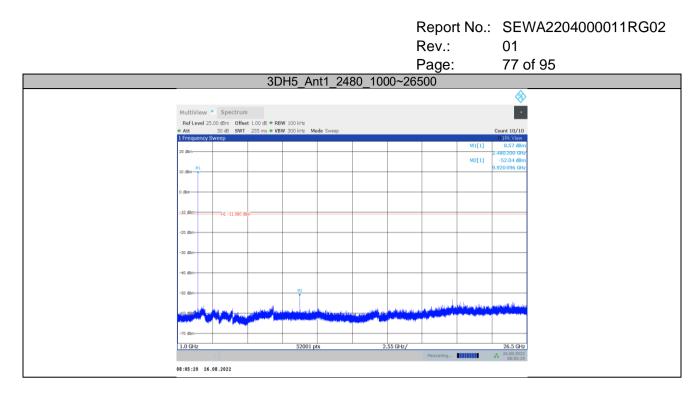


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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.76	76.86	1.14
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
		2480	2.90	3.76	77.13	1.13
		2402	2.89	3.76	76.86	1.14
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		2480	2.89	3.75	77.07	1.13



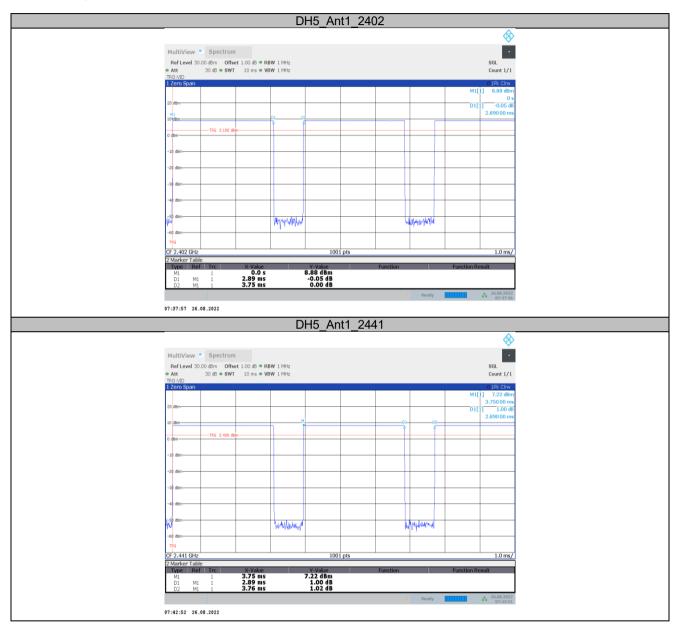
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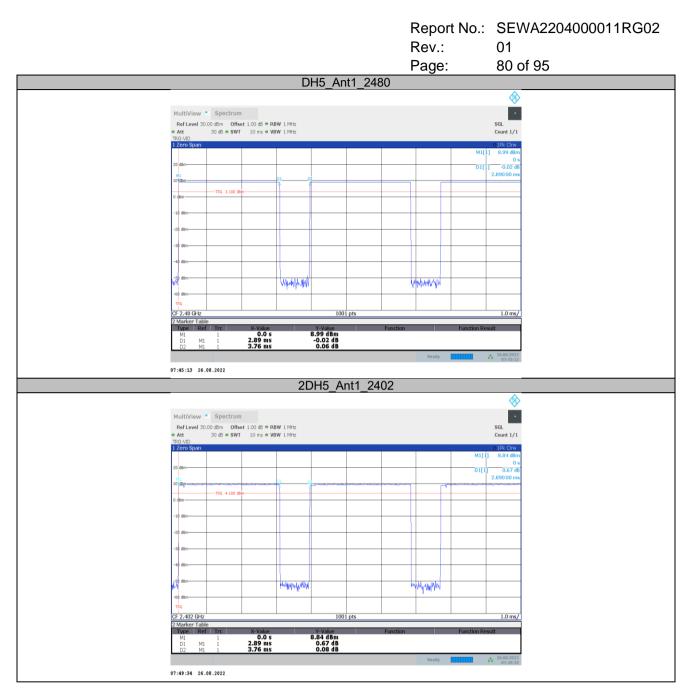


Test Graphs



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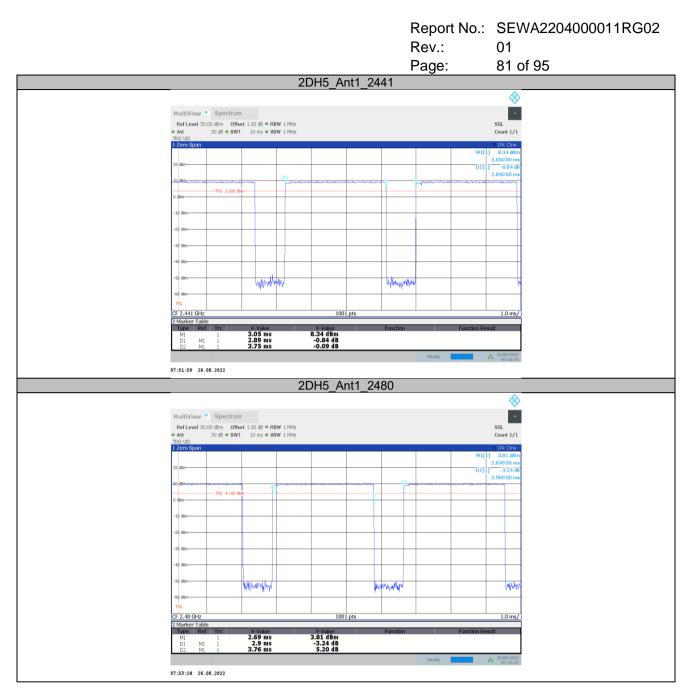


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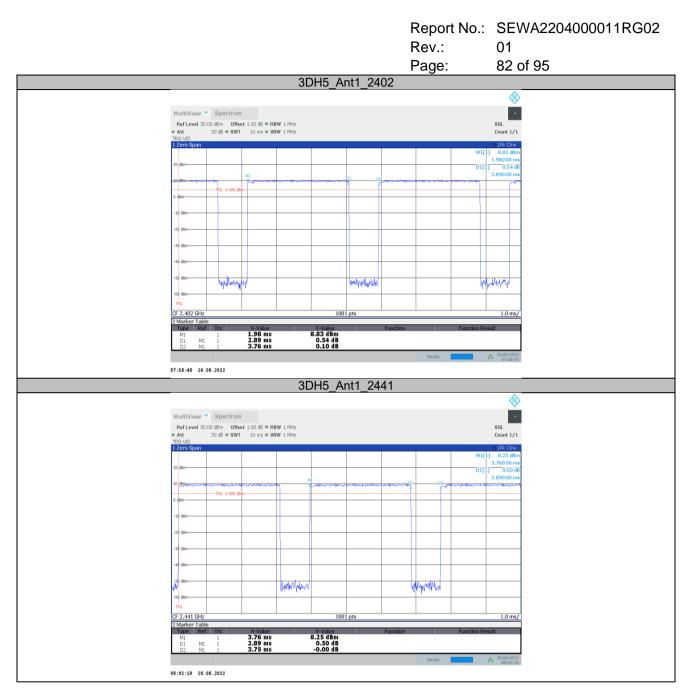


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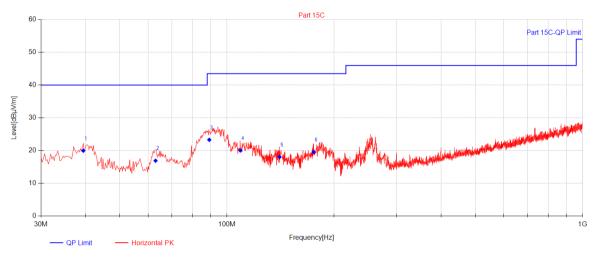
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Radiated Spurious Emissions

S

Radiated emission below 1GHz

Worst case Mode: GFSK _ Channel 00



Fina	I Data List									
NO.	Frequency [MHz]	Readin g [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.4575	42.26	-36.29	14.00	19.96	40.00	20.04	216	169	Horizontal
2	62.98	41.16	-36.44	12.17	16.90	40.00	23.10	145	138	Horizontal
3	89.17	50.23	-36.36	9.43	23.29	43.50	20.21	125	294	Horizontal
4	109.055	45.11	-36.11	11.04	20.03	43.50	23.47	185	169	Horizontal
5	140.58	40.03	-35.53	13.53	18.03	43.50	25.47	146	138	Horizontal
6	175.2575	40.19	-35.19	14.55	19.55	43.50	23.95	133	263	Horizontal

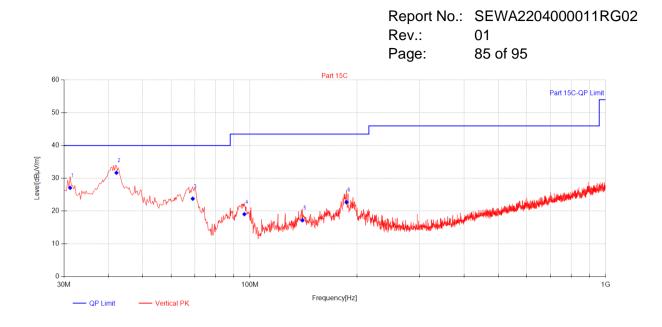


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Final	Data List									
NO.	Frequency [MHz]	Readin g [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.2125	50.46	-36.65	13.26	27.07	40.00	12.93	165	2	Vertical
2	42.125	54.02	-36.24	13.89	31.67	40.00	8.33	142	191	Vertical
3	69.0425	49.26	-36.51	11.00	23.76	40.00	16.24	133	12	Vertical
4	96.445	45.13	-36.00	9.90	19.03	43.50	24.47	291	245	Vertical
5	140.58	39.17	-35.53	13.53	17.17	43.50	26.33	145	182	Vertical
6	186.8975	45.03	-35.36	13.03	22.70	43.50	20.80	175	244	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(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

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

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



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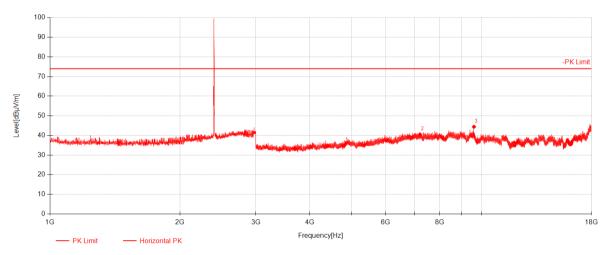
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Transmitter emission Above 1GHz

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	48.22	32.33	-45.54	35.01	74.00	38.99	216	360	Horizontal			
2	4804.0000	-	-	-	11.71	54.00	42.29	-	-	Horizontal			
3	7206.0000	47.33	36.60	-43.44	40.49	74.00	33.51	145	90	Horizontal			
4	7206.0000	-	-	-	17.19	54.00	36.81	-	-	Horizontal			
5	9608.0000	45.62	38.43	-39.65	44.40	74.00	29.60	172	142	Horizontal			
6	9608.0000	-	-	-	21.10	54.00	32.90	-	-	Horizontal			



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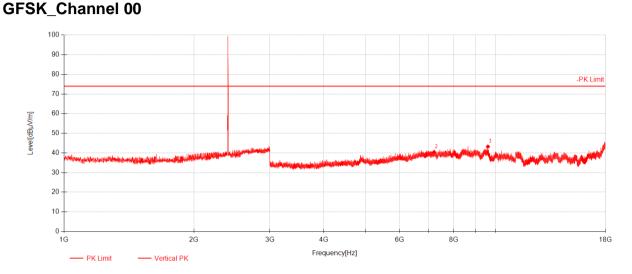
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.0000	48.06	32.33	-45.54	34.85	74.00	39.15	241	197	Vertical			
2	4804.0000	-	-	-	11.55	54.00	42.45	-	-	Vertical			
3	7206.0000	47.25	36.60	-43.44	40.41	74.00	33.59	263	17	Vertical			
4	7206.0000	-	-	-	17.11	54.00	36.89	-	-	Vertical			
5	9608.0000	44.44	38.43	-39.65	43.22	74.00	30.78	218	287	Vertical			
6	9608.0000	-	-	-	19.92	54.00	34.08	-	-	Vertical			



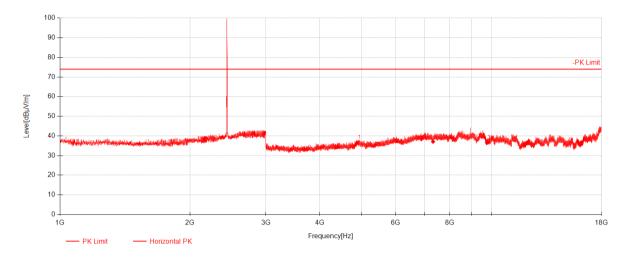
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	49.51	32.55	-45.53	36.53	74.00	37.47	158	158	Horizontal			
2	4882.0000	-	-	-	13.23	54.00	40.77	-	-	Horizontal			
3	7323.0000	44.21	36.53	-43.67	37.07	74.00	36.93	142	32	Horizontal			
4	7323.0000	-	-	-	13.77	54.00	40.23	-	-	Horizontal			
5	9764.0000	37.82	38.26	-39.47	36.61	74.00	37.39	133	68	Horizontal			
6	9764.0000	-	-	-	13.31	54.00	40.69	-	-	Horizontal			



GFSK_Channel 39

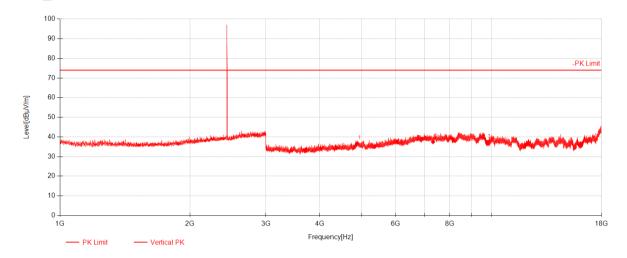
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	49.66	32.55	-45.53	36.68	74.00	37.32	136	177	Vertical			
2	4882.0000	-	-	-	13.38	54.00	40.62	-	-	Vertical			
3	7323.0000	44.56	36.53	-43.67	37.42	74.00	36.58	142	350	Vertical			
4	7323.0000	-	-	-	14.12	54.00	39.88	-	-	Vertical			
5	9764.0000	38.66	38.26	-39.47	37.45	74.00	36.55	218	360	Vertical			
6	9764.0000	-	-	-	14.15	54.00	39.85	-	-	Vertical			



GFSK_Channel 39

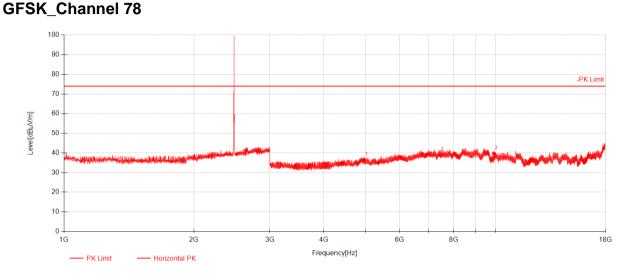
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.45	32.77	-45.60	36.62	74.00	37.38	178	359	Horizontal			
2	4960.0000	-	-	-	13.32	54.00	40.68	-	-	Horizontal			
3	7440.0000	45.77	36.47	-43.30	38.94	74.00	35.06	196	178	Horizontal			
4	7440.0000	-	-	-	15.64	54.00	38.36	-	-	Horizontal			
5	9920.0000	40.69	38.38	-39.31	39.76	74.00	34.24	142	336	Horizontal			
6	9920.0000	-	-	-	16.46	54.00	37.54	-	-	Horizontal			



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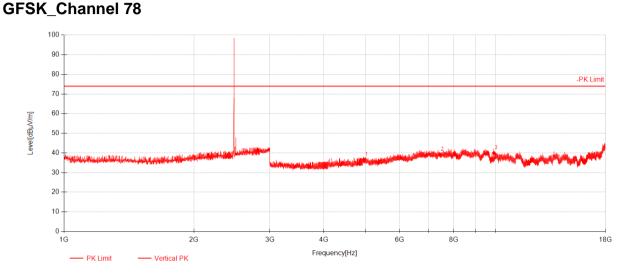
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.38	32.77	-45.60	36.55	74.00	37.45	149	123	Vertical			
2	4960.0000	-	-	-	13.25	54.00	40.75	-	-	Vertical			
3	7440.0000	45.95	36.47	-43.30	39.12	74.00	34.88	175	155	Vertical			
4	7440.0000	-	-	-	15.82	54.00	38.18	-	-	Vertical			
5	9920.0000	40.87	38.38	-39.31	39.94	74.00	34.06	213	32	Vertical			
6	9920.0000	-	-	-	16.64	54.00	37.36	-	-	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(dBµV) + 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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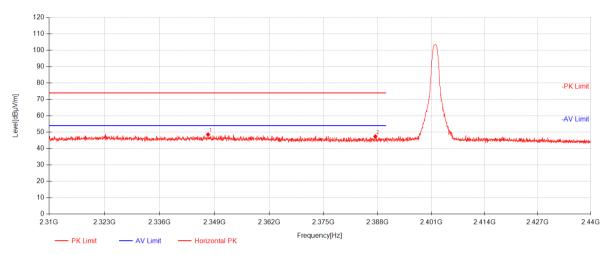
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Restricted bands around fundamental frequency

GFSK_Channel 00



Data	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	2347.44	44.73	27.41	-23.58	48.57	74.00	25.43	241	298	Horizontal			
2	2347.44	-	-	-	25.27	54.00	28.73	-	-	Horizontal			
3	2387.48	43.55	27.43	-23.57	47.41	74.00	26.59	241	298	Horizontal			
4	2387.48	-	-	-	24.11	54.00	29.89	-	-	Horizontal			



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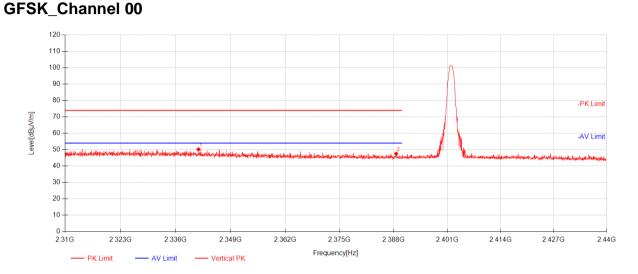
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2341.3733	46.39	27.41	-23.58	50.22	74.00	23.78	125	256	Vertical			
2	2341.3733	-	-	-	26.92	54.00	27.08	-	-	Vertical			
3	2388.65	43.67	27.43	-23.57	47.53	74.00	26.47	125	256	Vertical			
4	2388.65	-	-	-	24.23	54.00	29.77	-	-	Vertical			



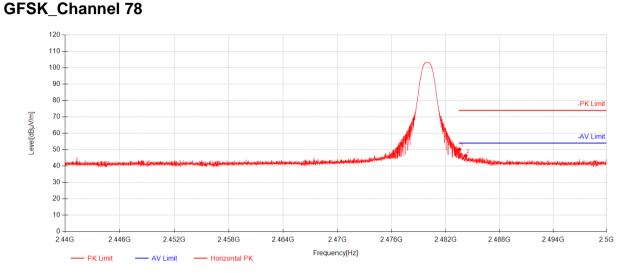
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.5525	45.99	27.72	-23.54	50.16	74.00	23.84	196	144	Horizontal			
2	2483.5525	-	-	-	26.86	54.00	27.14	-	-	Horizontal			
3	2484.2575	42.10	27.72	-23.54	46.27	74.00	27.73	196	144	Horizontal			
4	2484.2575	-	-	-	22.97	54.00	31.03	-	-	Horizontal			



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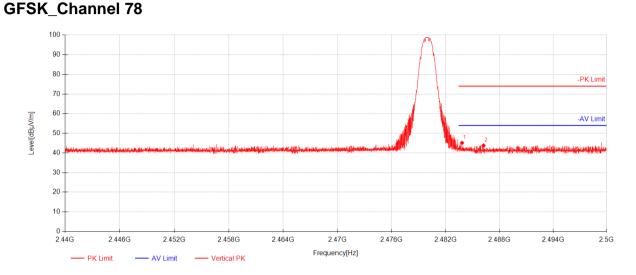
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.845	40.95	27.72	-23.54	45.12	74.00	28.88	185	332	Vertical
2	2483.845	-	-	-	21.82	54.00	32.18	-	-	Vertical
3	2486.245	39.61	27.72	-23.54	43.79	74.00	30.21	185	332	Vertical
4	2486.245	-	-	-	20.49	54.00	33.51	-	-	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)

---End of Report---



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