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TEST REPORT

Test Result :	PASS *
Date of Issue:	2022/4/2
Date of Test:	2022/2/20 to 2022/3/11
Date of Receipt:	2022/2/12
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
FCC ID:	XMR202201AF51Y
Trade Mark:	QUECTEL
Model No.:	AF51Y
EUT Description:	Wi-Fi & Bluetooth Module
Address of Manufacturer:	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 Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Applicant:	Quectel Wireless Solutions Co., Ltd.
Application No.:	HR/2021/B0010

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

Authorized Signature:

Sun anta

Panta Sun Wireless Laboratory Manager



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1 Version

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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2022/3/15		Original	
02		2022/4/2		Add A2LA+ILAC logo	

Prepared By	weller lin
	(Weller Liu) / Test Supervisor
Checked By	well wei
	(Well Wei) / Reviewer

Remark: This report supersedes our previous report SUHR/2021/B001001, issued on 2021-03-15, which is hereby deemed null and void.



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2 Test Summary

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Test Item	FCC Rules No.	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious	15.247(d);	ANSI C63.10 (2013)	Clause 4.11	PASS
emissions	15.205/15.209			
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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General Information 3

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:	Weller Liu, King-p Li, Nature Shen, 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

Wi-Fi & Bluetooth Module		
AF51Y		
QUECTEL		
R1.0		
AG525RGLAAR01A16M4G_OCPU _01.011 (Remark: the SW of branch is Post-CS[13]0.0.125.1)		
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 V5.2		
Frequency Hopping Spread Spectrum(FHSS)		
GFSK, π/4DQPSK, 8DPSK		
79		
Adaptive Frequency Hopping systems		
□ Portable Device, ⊠Module		
🖾 External, 🔲 Integrated		
Provided by client		
-1.38dBi(Ant2);		
Provided by client		
0.5dB		

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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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		

Remark:

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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		
LTNV	-40	3.8		
HTNV	85	3.8		
Remark:				
NV: Normal Voltage				
NT: Normal Temperature				
LT: Low Extreme Test Temperature				

HT: High Extreme Test Temperature

3.6 Description of Support Units

Manufacturer	Description	Model
Quectel	Mother board	V2X&5G-EVB
Qualcomm	Test Software	QRCT4 tool
Dong Guan City GangQi Electronic Co.,Ltd	Adapter	QG36-120300-AX
JONKEY	USB cable	XY02-354-SAM-TYPE-C
Amphenol	Antenna	M3 MIMO Antenna

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(c)

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 on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.38dBi(Ant2).



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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.

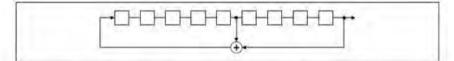
> Number of shift register stages: 9

> 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

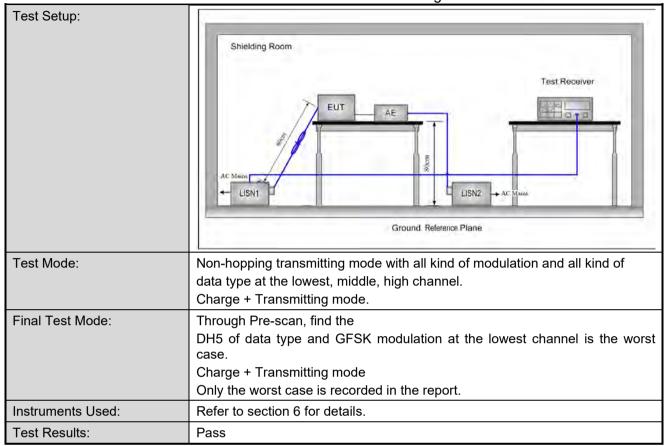
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:		Limit (d	BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	 room. 2) The EUT was connected impedance Stabilizati impedance. The porconnected to a secon plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizor 4) The test was perform the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip 5) In order to find the mand all of the interfate 	listurbance voltage test was ected to AC power source to ion Network) which provides ower cables of all other un ad LISN 2, which was bonded way as the LISN 1 for the or the rating of the LISN was not as placed upon a non-metall ne. And for floor-standing arr that ground reference plane. ed with a vertical ground refe 4 m from the vertical ground rence plane was bonded to a LISN 1 was placed 0.8 m fr bonded to a ground refe e ground reference plane. The the LISN 1 and the EUT. All oment was at least 0.8 m from aximum emission, the relative ce cables must be changed a on conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were to the ground reference unit being measured. A ultiple power cables to a bit exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The bothe horizontal ground rom the boundary of the rence plane for LISNs is distance was between I other units of the EUT the LISN 2. e positions of equipment		



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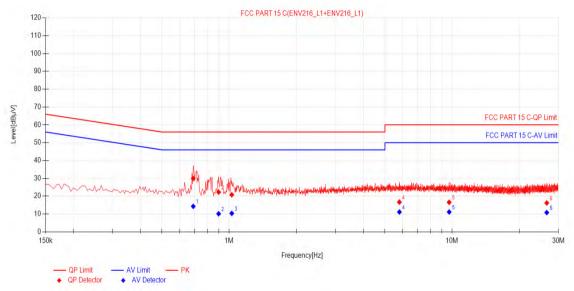
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Measurement Data

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.

Live Line:



Fina	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6900	10.57	29.97	56.00	26.03	14.31	46.00	31.69	PASS
2	0.8970	10.60	22.29	56.00	33.71	10.14	46.00	35.86	PASS
3	1.0275	10.53	20.83	56.00	35.17	10.38	46.00	35.62	PASS
4	5.8065	10.67	16.68	60.00	43.32	11.13	50.00	38.87	PASS
5	9.7080	10.64	16.59	60.00	43.41	11.16	50.00	38.84	PASS
6	26.6145	10.29	16.22	60.00	43.78	10.82	50.00	39.18	PASS

Remark:

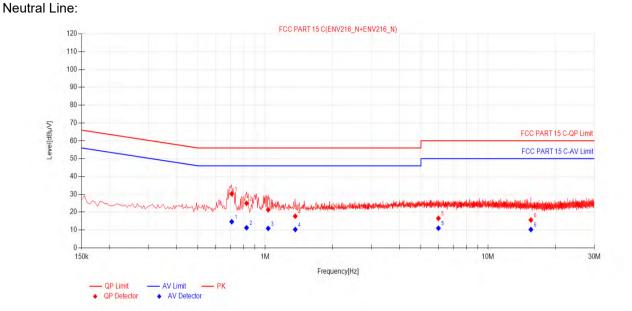
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Fina	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.7080	10.81	30.29	56.00	25.71	14.64	46.00	31.36	PASS
2	0.8250	10.80	25.01	56.00	30.99	11.25	46.00	34.75	PASS
3	1.0320	10.66	21.33	56.00	34.67	10.88	46.00	35.12	PASS
4	1.3650	10.77	17.73	56.00	38.27	10.29	46.00	35.71	PASS
5	5.9910	10.58	16.55	60.00	43.45	11.01	50.00	38.99	PASS
6	15.5760	10.59	15.60	60.00	44.40	10.25	50.00	39.75	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Test Requirement: 47 CFR Part 15C Section 15.247 (b)(1) Test Method: ANSI C63.10:2013 Section 7.8.5 Test Setup: 0 lower prob 0 E.U.T Ground Reference Plane * Test with power meter (Detector function: Peak) Test Instruments: Refer to section 6 for details Exploratory Test Mode: Non-hopping transmitting with all kind of modulation and all kind of data type. Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, Final Test Mode: 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: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. Test Results: Pass The detailed test data see: Appendix

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 SGS Test system Sectrum Analyzer Sectrum Analyzer Sectrum Manalyzer Sectrum Analyzer FE control Unit Sectrum Anal				
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:	Appendix				



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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 FC FC FC FC FC FC FC FC FC F					
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 π /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:	Appendix					

4.6 Carrier Frequencies Separationy

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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 0 DC Powe 00000 **Ground Reference Plane** Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation At least 15 channels Limit: Test Results: Pass The detailed test data see: Appendix

4.7 Hopping Channel Number

S



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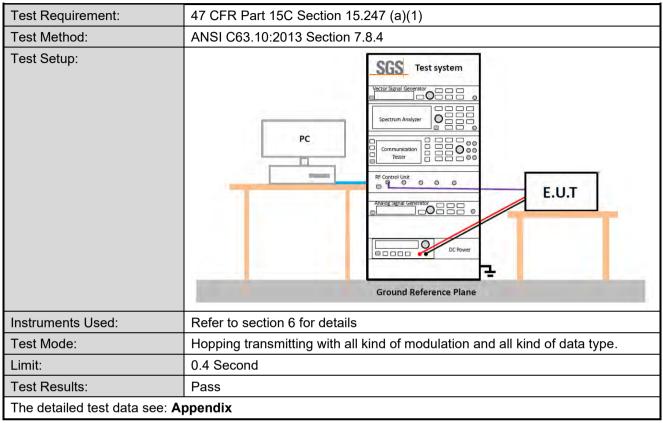
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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.6				
Test Setup:	PC E.U.T ANSWER MERCENCE Plane				
Instruments Used:	Refer to section 6 for details				
Exploratory Test Mode:	Hopping and 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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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4.10 Spurious RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.8				
Test Setup:	PC E.U.T Answer E.U.T Answer E.U.T Answer E.U.T				
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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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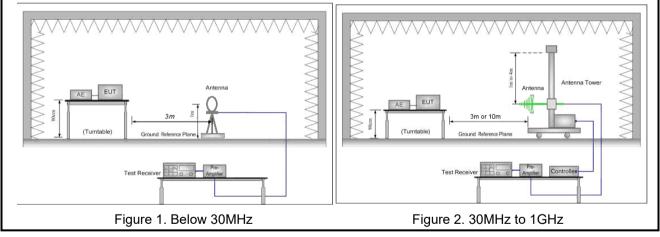
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 :2013 Section	on 11.12					
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)				
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 fre emissions is 20dB above the maximum permitted average emission limi applicable to the equipment under test. This peak limit applies to the total level radiated by the device.					it		

Test Setup:

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	Figure 3. Above 1 GHz
Test Procedure:	 a. For below 1GHz(9KHz start), 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(10th harmonic), 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 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle 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. k. 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 rep
Test Configuration:	 Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak



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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		Faye. 23 01 97
• RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). Exploratory Test Mode: Non-hopping transmitting mode. Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. 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		
• VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). Value = Transmitting mode. Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. 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		
 Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode. Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. 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: 		
 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). Exploratory Test Mode: Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode. Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. 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 		• VBW ≥ 3 MHz
• Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. 		
Average Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 10 Hz, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).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 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 detailsTest Results:Pass		•
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Exploratory Test Mode: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 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 detailsTest Results:Pass		Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).
Mode: data type Charge + Transmitting mode. Final Test 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	Exploratory Test	Non-hopping transmitting mode with all kind of modulation and all kind of
Charge + Transmitting mode. Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. 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		
Final Test Mode: DH5 of data type and GFSK modulation is the worst case. 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		Charge + Transmitting mode.
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		Through Pre-scan, find the
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		DH5 of data type and GFSK modulation is the worst case.
Only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details Test Results: Pass	Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
Instruments Used: Refer to section 6 for details Test Results: Pass		For below 1GHz part, through pre-scan, the worst case is the lowest channel.
Test Results: Pass		Only the worst case is recorded in the report.
	Instruments Used:	Refer to section 6 for details
The detailed test data and: Annandix	Test Results:	Pass
The detailed test data see: Appendix	The detailed test data	a see: Appendix



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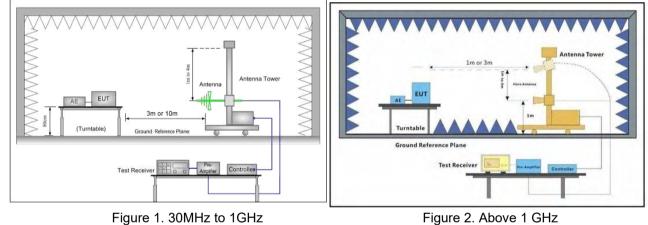
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4.12Restricted bands around fundamental frequency

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

Test Setup:

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Test Procedure:		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.
		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.
		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.
		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.
		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.
		The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g.	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 ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Value = Reading + Factor(Antenna Factor + Cable loss). 				
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	±7.25x 10 ⁻⁸ GHz	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±7.25x 10 ⁻⁸ GHz	
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)	
		± 3.13dB (9k -30MHz)	
		± 4.8dB (30M -1GHz)	
8	Radiated Emission	± 4.8dB (1GHz to 18GHz)	
		± 4.8dB (Above 18GHz)	



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Equipment List 6

Tonscend Test System							
Equipment			L N.	Cal. date	Cal.Due date		
	Manufacturer	Model No.	Inventory No.	(yyyy-mm- dd)	(yyyy-mm- dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/19	2023/2/18		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3		
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27		

CE Test Equipment							
Equipment	Manufacturer Model No. Inventory No.		Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/16	2023/2/15		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/16	2023/2/15		
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15		



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RSE Test Equipment 996-01							
Equipment	Manufacturer Model No.		Inventory No.	Cal Date	Cal Due Date		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15		
Signal Analyzer	ROHDE&SCH WARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27		
Test receiver	ROHDE&SCH WARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9		
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR		
Measurement Software	Tonscend	JS32-RSE 3.0.0.2	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]
		2402	0.95	2401.54	2402.48
DH5	Ant2	2441	0.94	2440.54	2441.48
		2480	0.94	2479.54	2480.48
2DH5	Ant2	2402	1.32	2401.34	2402.65
		2441	1.31	2440.34	2441.65
		2480	1.31	2479.34	2480.65
3DH5	Ant2	2402	1.30	2401.35	2402.65
		2441	1.30	2440.35	2441.65
		2480	1.30	2479.35	2480.65



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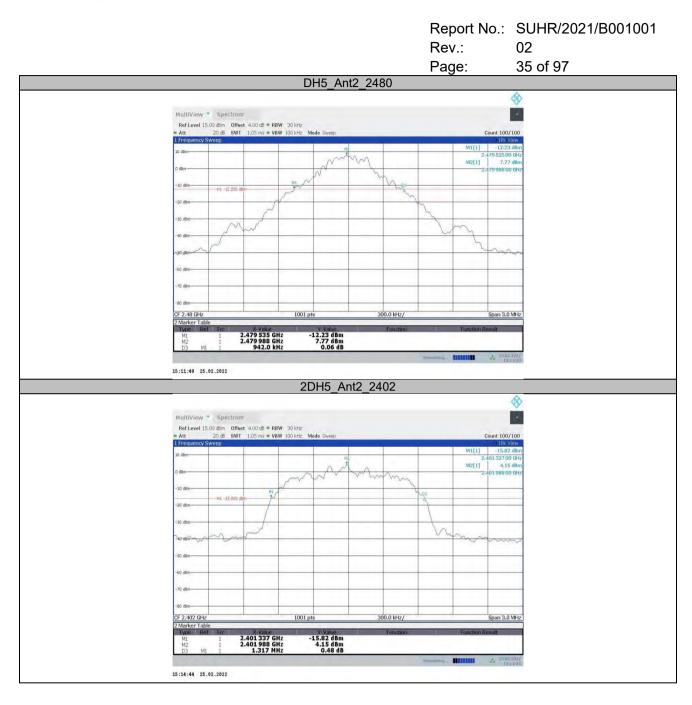
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DH5 Ant2 2402 8 MultiView . Spectra * Ref Level 15.00 dBm Offset 4.00 dB = RBW 30 kHz SWT 1.05 ms = VBW 100 kHz 100/100 M2[1] 6.72 d 50 dBm-1001 pts 300.0 kHz/ Span 3.0 MHz 2.402 GH X Value 2.401 535 GHz 2.401 988 GHz 945.0 kHz V Value -13.03 dBm 6.72 dBm -0.15 dB 15:07:31 25.02.2022 DH5 Ant2 2441 Ô MultiView · Spectrue Ref Level 15.00 dBm Offset 4.00 dB RBW 30 kHz Att 20 dB SWT 1.05 ms VBW 100 kHz Made Count 100/100 -11,34 dBr MI[1] M2[1] 8.45 d -11.55 2.441 GH 1001 pts 300.0 kHz/ Span 3.0 MHz X-Value 2.440 535 GHz 2.440 988 GHz 942.0 kHz V Value -11.34 dBm 8.45 dBm 0.05 dB 15:09:29 25.02.2022

Test Graphs







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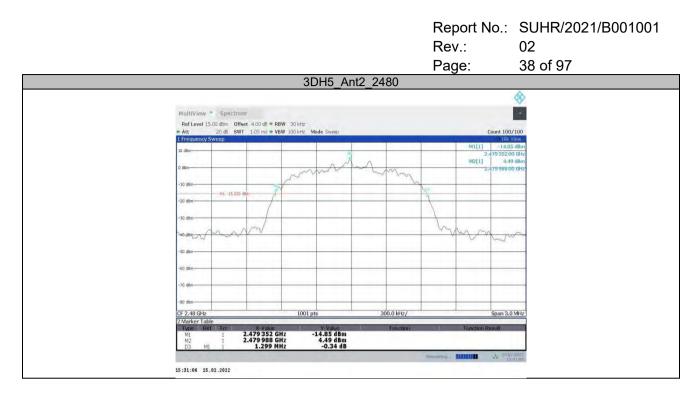


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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
		2402	0.842	2401.579	2402.420
DH5	Ant2	2441	0.846	2440.576	2441.422
		2480	0.842	2479.573	2480.416
		2402	1.173	2401.409	2402.582
2DH5	Ant2	2441	1.174	2440.409	2441.583
		2480	1.171	2479.409	2480.580
		2402	1.179	2401.409	2402.588
3DH5	Ant2	2441	1.180	2440.409	2441.589
		2480	1.178	2479.410	2480.587



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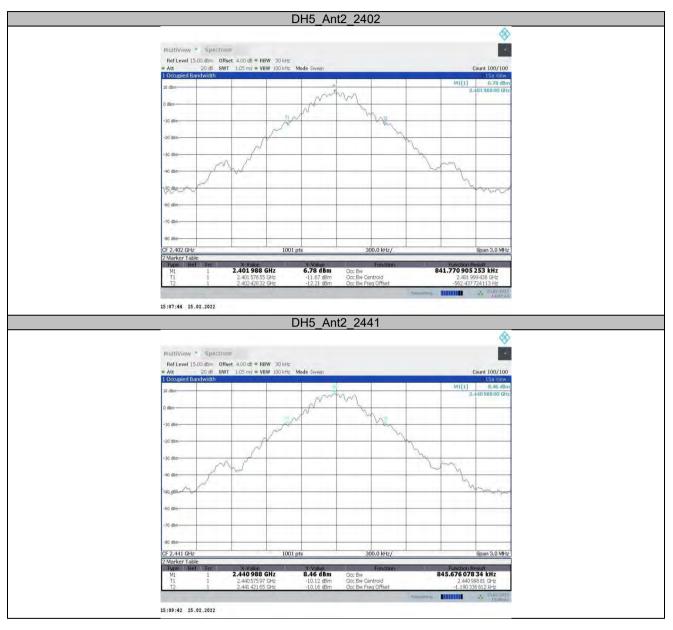
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Test Graphs









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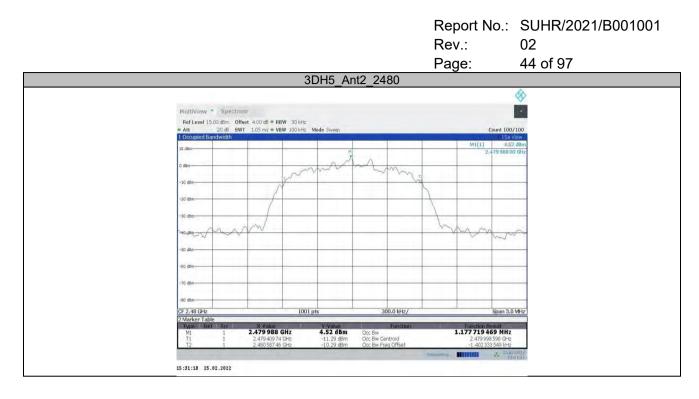


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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	10.59	≤30.00	PASS
DH5	Ant2	2441	9.46	≤30.00	PASS
		2480	9.97	≤30.00	PASS
		2402	8.13	≤20.97	PASS
2DH5	Ant2	2441	6.93	≤20.97	PASS
		2480	7.56	≤20.97	PASS
		2402	8.21	≤20.97	PASS
3DH5	Ant2	2441	6.91	≤20.97	PASS
		2480	7.58	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant2	Нор	1.030	≥0.950	PASS
2DH5	Ant2	Нор	1.012	≥0.880	PASS
3DH5	Ant2	Нор	0.996	≥0.867	PASS



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Test Graphs





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							Pag	e:	48 of	97	
			30	DH5_A	nt2_Ho	р	Ť				
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. 14	ultiView • Spectrum	17									
	ef Level 15.00 dBm Offs										
- /	tt 20 dB SW1 requency Sweep	1.01 ms = VBV	V 300 kHz Ma	de Sweep					1Pk View		
10	161							M1[1]	8.44 dBm		
	Production and the second	mentana	ntrannon	manna	monor	mar marin	muni	D2[1]	0.42 dB		
0.0	8m-								996.00 kHz		
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Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant2	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant2	Нор	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant2	Нор	0.36	320	0.115	≤0.4	PASS
2DH3	Ant2	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant2	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant2	Нор	0.37	320	0.118	≤0.4	PASS
3DH3	Ant2	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant2	Нор	2.87	106.67	0.306	≤0.4	PASS



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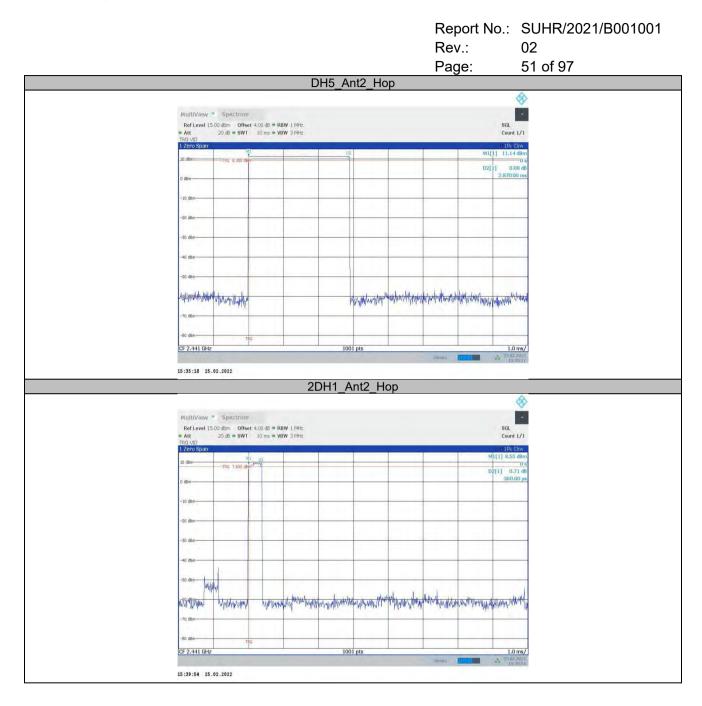
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DH1 Ant2 Hop \$ MultiView Spectrum . Ref Level 15.00 dBm Offset 4.00 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 D2[1] 0.14 360.00 µ Alan And Antonio and Antonio and Nes portant and and and many provident the stand hadings by the Wetwork Herry 1.0 ms/ CF 2.441 GH 1001 pts 15:35:39 25.02.2022 DH3 Ant2 Hop \$ MultiView Spectru * Ref Level 15.00 dBm Offset 4.00 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 9.58 df -10.00 µ D2[1] 1.65 0 1.620 00 m AND WANTER the state of the s Leven Alaman will want and and MANAMAN 60 dQa mannin In the work of the CF 2.441 GHz 1001 pts 1.0 ms/ 15:35:57 25.02.2022

Test Graphs





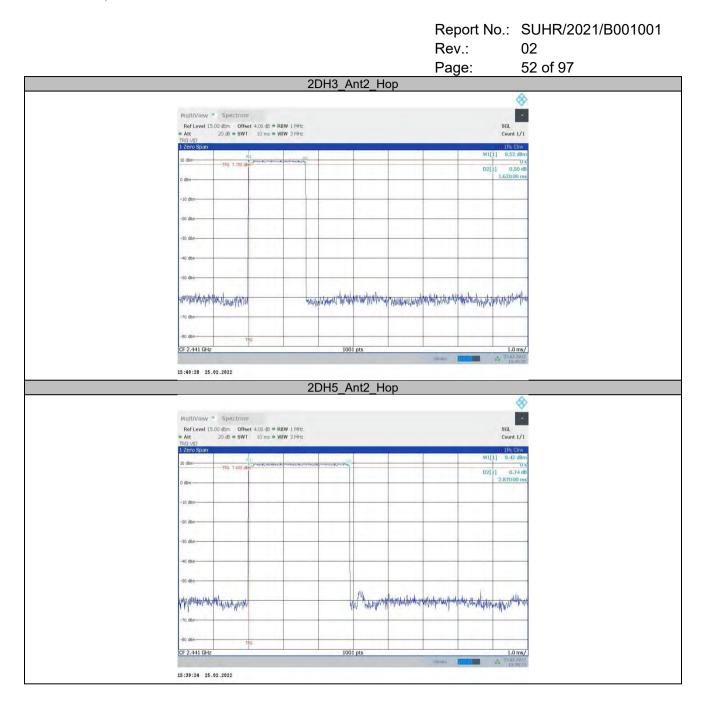


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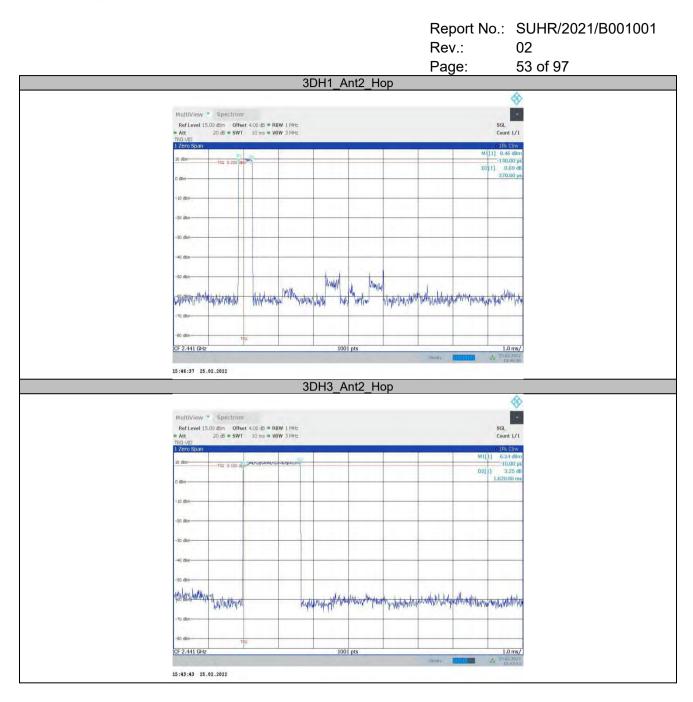




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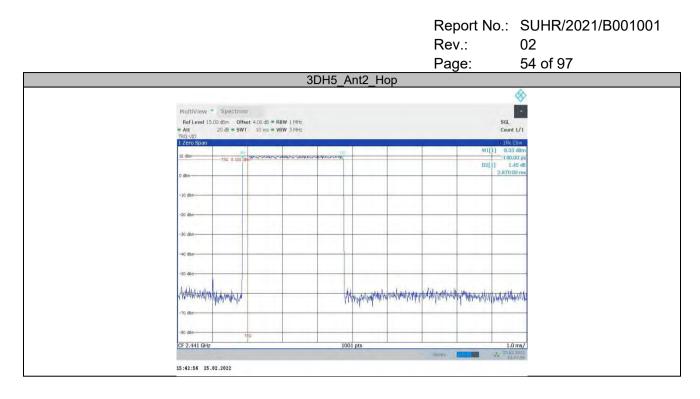


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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant2	Нор	79	≥15	PASS
2DH5	Ant2	Нор	79	≥15	PASS
3DH5	Ant2	Нор	79	≥15	PASS



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	DH5_An	it2_Hop		
MultiView Spectru Ref Level 15.00 dBm Off	fset 4.00 dB = RBW 300 kHz			
Att 20.68 SW I Frequency Sweep	VT 1.01 ms = VBW 300 kHz Mode Sweep			e 1Pk View
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-90 dBm				
2.4 GHz	1001 pts	8.35 MHz/		2.483 5 GHz
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MultiView * Spectru	m			
MultiView Spectra RefLevel 15.00dm Off Att 2.068 SW				*
MultiView Spectra Ref Level 15:00 dBm Off Att 20:06 SW I Frequency Sweep	IIIT Sect 4.00 dB = RBW 300 kHz VT 1.01 ms = VBW 300 kHz Mode Sweep	nt2_Hop		estPR View
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MultiView Spectra Ref Level 15.00 dBm Off • Att 20.d5 SW IFrequency Sweep 10 dbm //w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/	IIIT Sect 4.00 dB = RBW 300 kHz // 1.01 ms = VBW 300 kHz Mode Sweep	nt2_Hop		estPR View



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			31	DH5_A	nt2_H	эр				
	Spectrum 00 dBm Offset 20 dB SWT weep	4.00 dB = RB		ode Sweep		1			e 1Pk Vie	
10 dBm	amprophy	humma	nuthant	manan	MMMMM	halippart	mmmm	manna	ming	_
-10 dBm					-					_
-20 dBm										
430 dBm									1	
-50 dBm										
-60 dBm										7
-70 dBm										
2.4 GHz			1001 pt	s	8	.35 MHz/	Measuring, 1		2.4835 G	



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Band edge measurements Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	8.92	-55.58	≤-11.08	PASS
DH5	Ant2	High	2480	9.57	-59.61	≤-10.43	PASS
DHD	Anz	Low	Hop_2402	9.51	-66.28	≤-10.49	PASS
		High	Hop_2480	10.38	-63.14	≤-9.62	PASS
		Low	2402	6.56	-56.05	≤-13.44	PASS
2DH5	A mtO	High	2480	5.66	-61.26	≤-14.34	PASS
ZDHO	Ant2	Low	Hop_2402	5.86	-66.59	≤-14.14	PASS
		High	Hop_2480	5.20	-63.32	≤-14.8	PASS
		Low	2402	6.60	-55.37	≤-13.4	PASS
3DH5	Ant2	High	2480	6.32	-62.50	≤-13.68	PASS
3003	Antz	Low	Hop_2402	6.61	-66.35	≤-13.39	PASS
		High	Hop_2480	6.45	-63.94	≤-13.55	PASS



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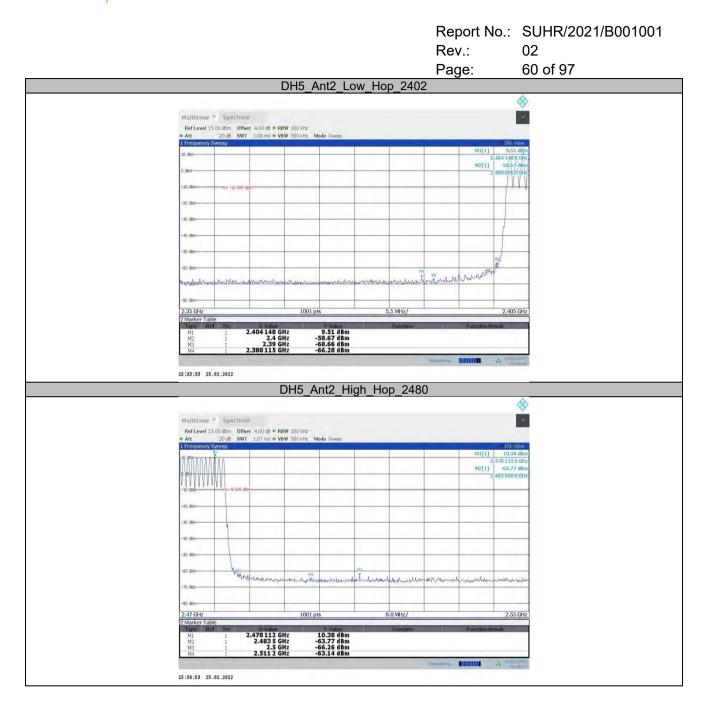
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DH5 Ant2 Low 2402 \$ MultiView • Spectrum * Ref Level 15.00 dBm Offset 4.00 dB RBW 100 kHz Att 20 dB SWT 1.08 ms VBW 300 kHz Mode M2[1] MARNER 2.35 GHz 1001 pt 5.5 MHz/ 2.405 GHz X-Value 2.402 005 GHz 2.4 GHz 2.39 GHz 2.399 995 GHz 8.92 dBm -52.55 dBm -67.08 dBm -55.58 dBm 15:07:51 25.02.2022 DH5 Ant2 High 2480 \$ MultiView Spectrum . Ref Level 15.00 dBm Offset 4.00 dB RBW 100 kHz Att 20 dB SWT 1.07 ms VBW 300 kHz Mode SW M1[1] M2[1] -60.87 d Link. Whith had a marine and an and a second 70 dBe 2,47 GHz 1001 pts 8.0 MHz/ 2.55 GHz x-Value 2.480 03 GHz 2.483 5 GHz 2.5 GHz 2.484 48 GHz 9.57 dBm -60.87 dBm -68.05 dBm -59.61 dBm 15:12:00 25.02.2022

Test Graphs







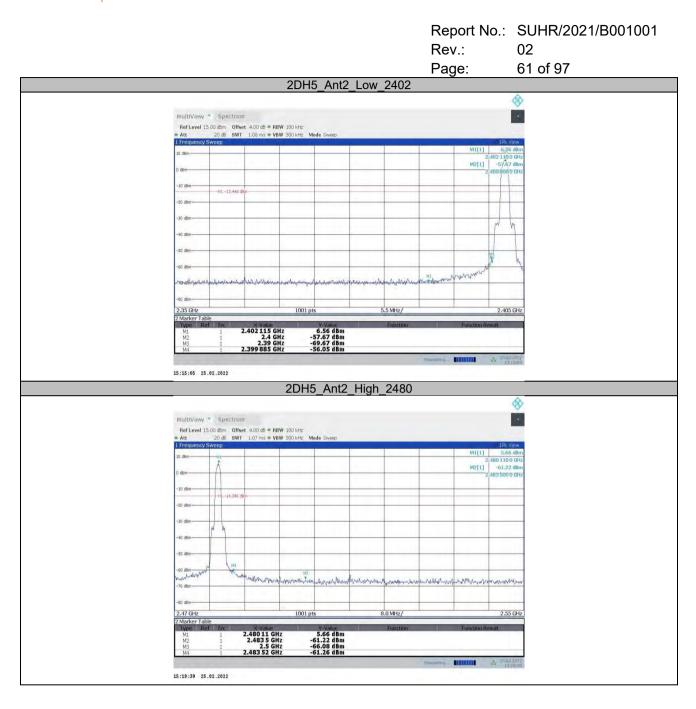
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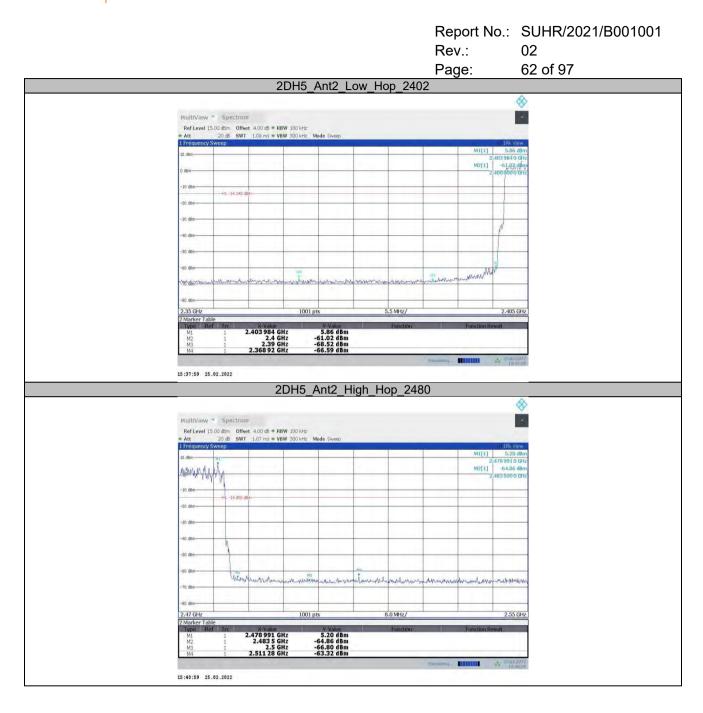
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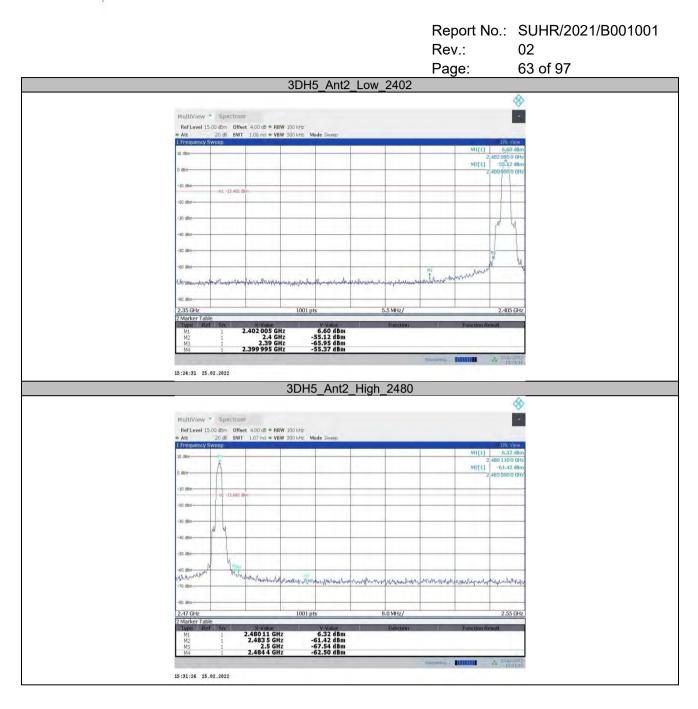
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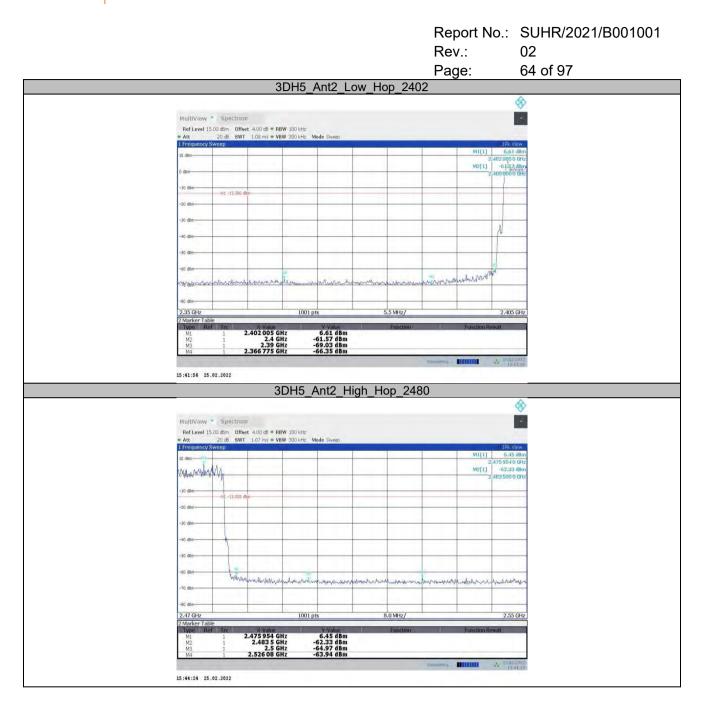
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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange	RefLevel	Result	Limit	Verdict
Testiviode	Antenna	Frequency[ivinz]	[MHz]	[dBm]	[dBm]	[dBm]	verdict
			Reference	9.50	9.50		PASS
		2402	30~1000	9.50	-57.18	≤-10.5	PASS
			1000~26500	9.50	-52.43	≤-10.5	PASS
			Reference	10.97	10.97		PASS
DH5	Ant2	2441	30~1000	10.97	-57.94	≤-9.03	PASS
			1000~26500	10.97	-52.60	≤-9.03	PASS
			Reference	10.22	10.22		PASS
		2480	30~1000	10.22	-57.81	≤-9.78	PASS
			1000~26500	10.22	-43.03	≤-9.78	PASS
			Reference	6.70	6.70		PASS
		2402	30~1000	6.70	-58.33	≤-13.3	PASS
			1000~26500	6.70	-52.79	≤-13.3	PASS
			Reference	8.11	8.11		PASS
2DH5	Ant2	2441	30~1000	8.11	-58.27	≤-11.89	PASS
			1000~26500	8.11	-52.42	≤-11.89	PASS
			Reference	6.85	6.85		PASS
		2480	30~1000	6.85	-57.86	≤-13.15	PASS
			1000~26500	6.85	-53.08	≤-13.15	PASS
			Reference	6.85	6.85		PASS
		2402	30~1000	6.85	-58.35	≤-13.15	PASS
			1000~26500	6.85	-52.58	≤-13.15	PASS
			Reference	8.29	8.29		PASS
3DH5	Ant2	2441	30~1000	8.29	-58.20	≤-11.71	PASS
			1000~26500	8.29	-52.02	≤-11.71	PASS
			Reference	7.05	7.05		PASS
		2480	30~1000	7.05	-58.09	≤-12.95	PASS
			1000~26500	7.05	-50.69	≤-12.95	PASS



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Test Graphs



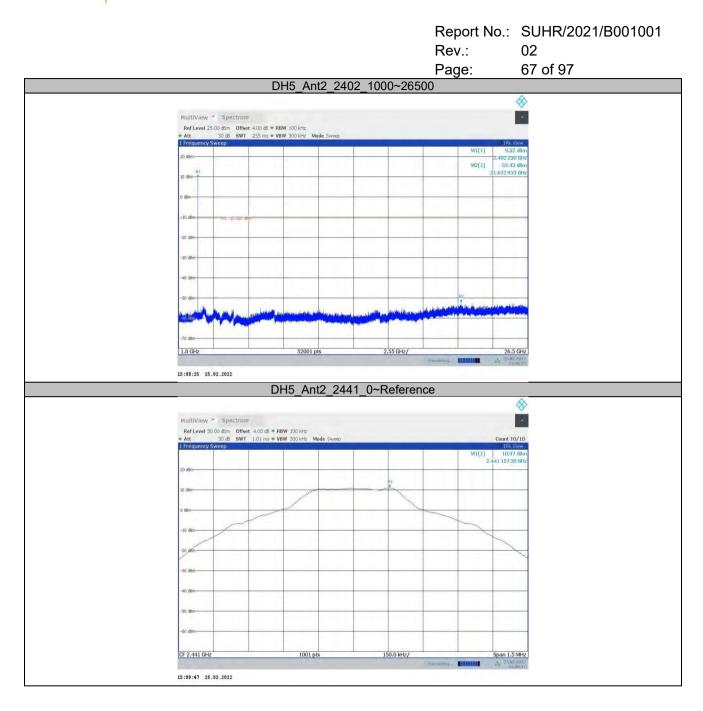


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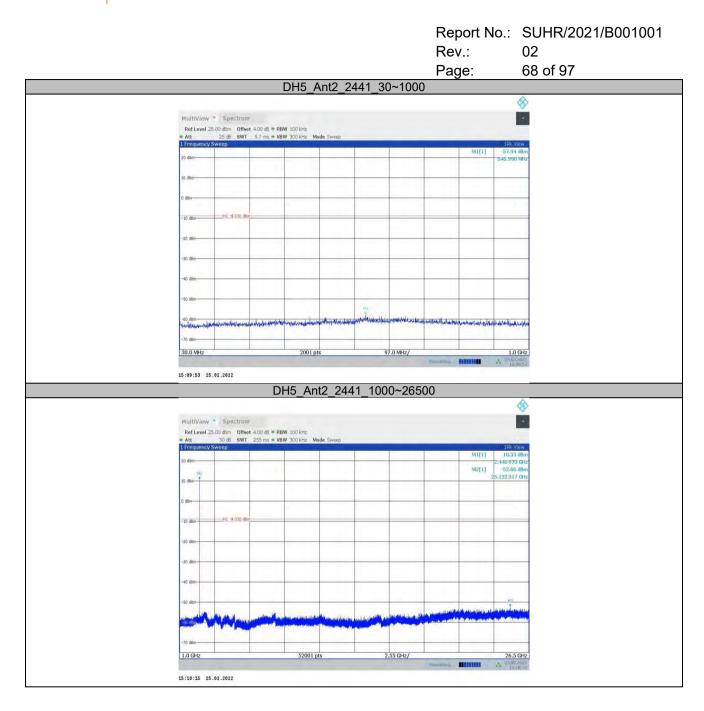


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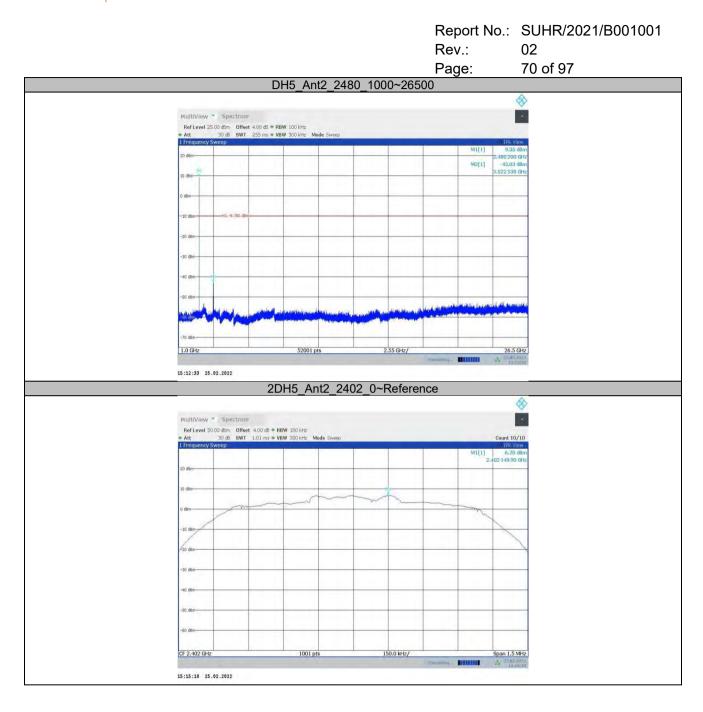


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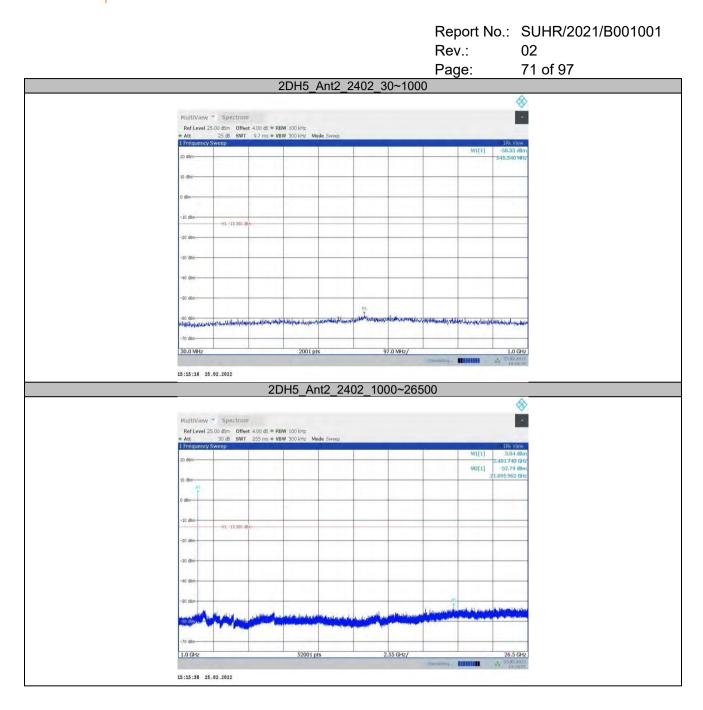


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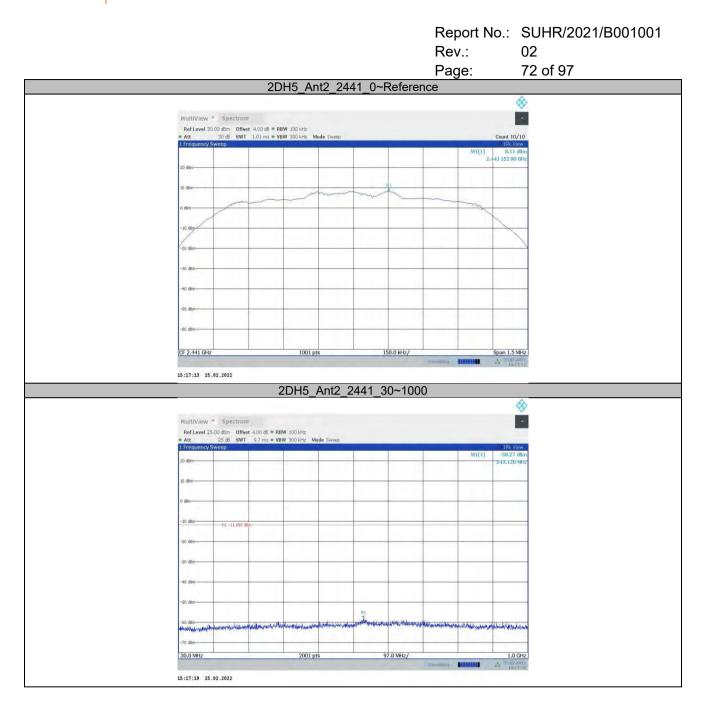
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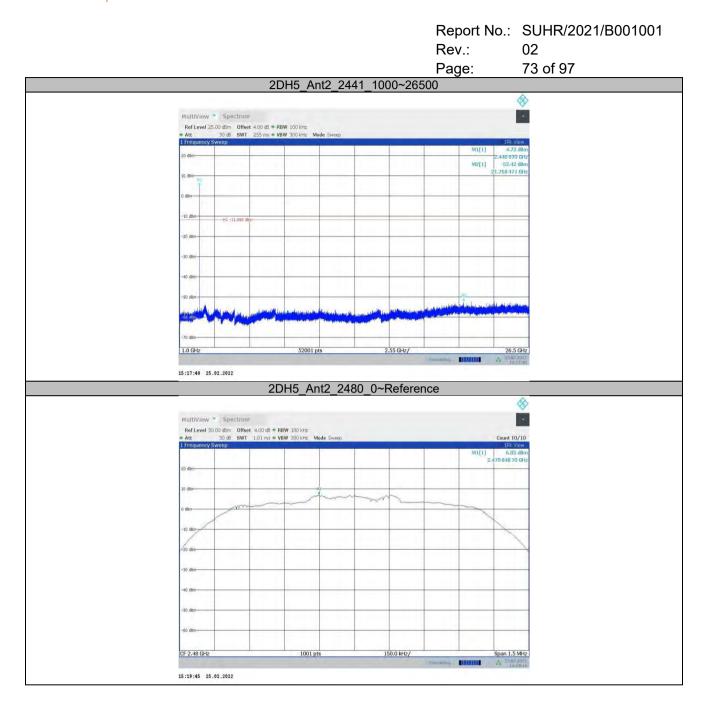


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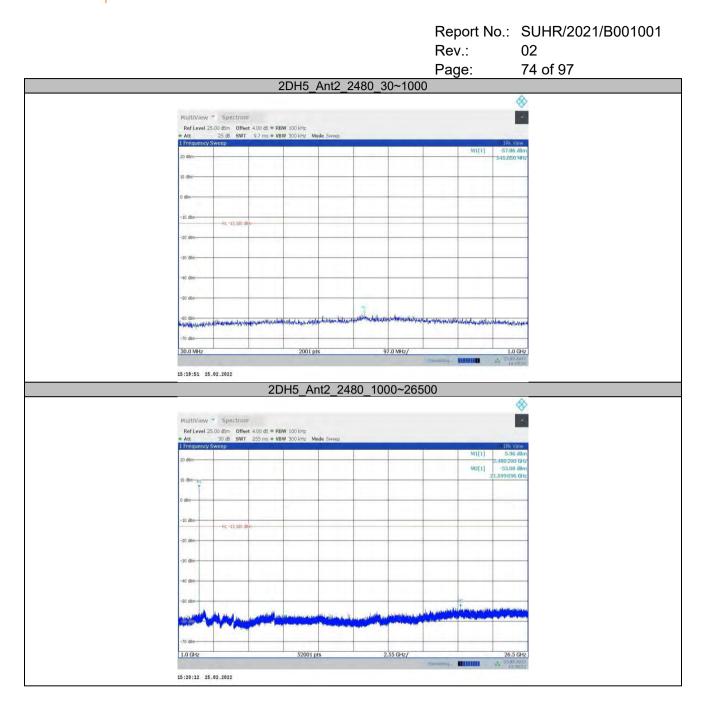


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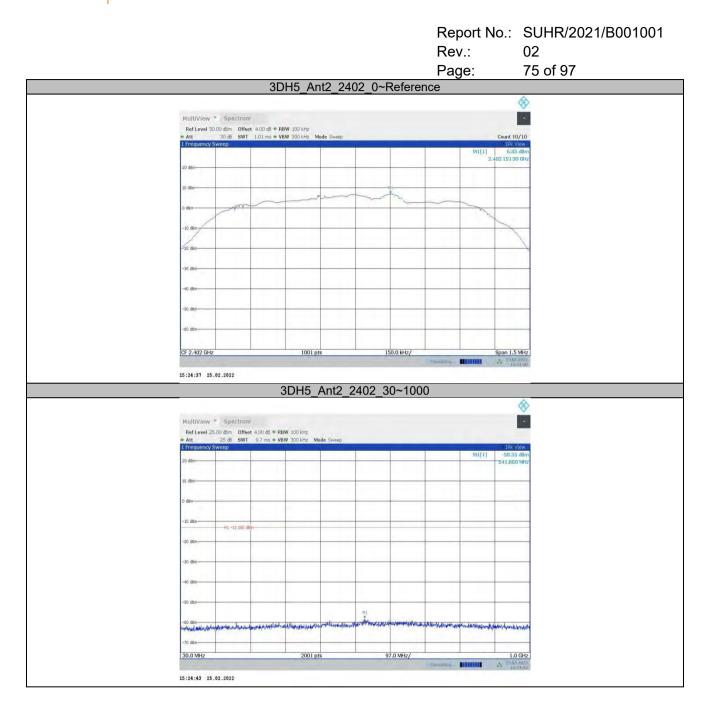
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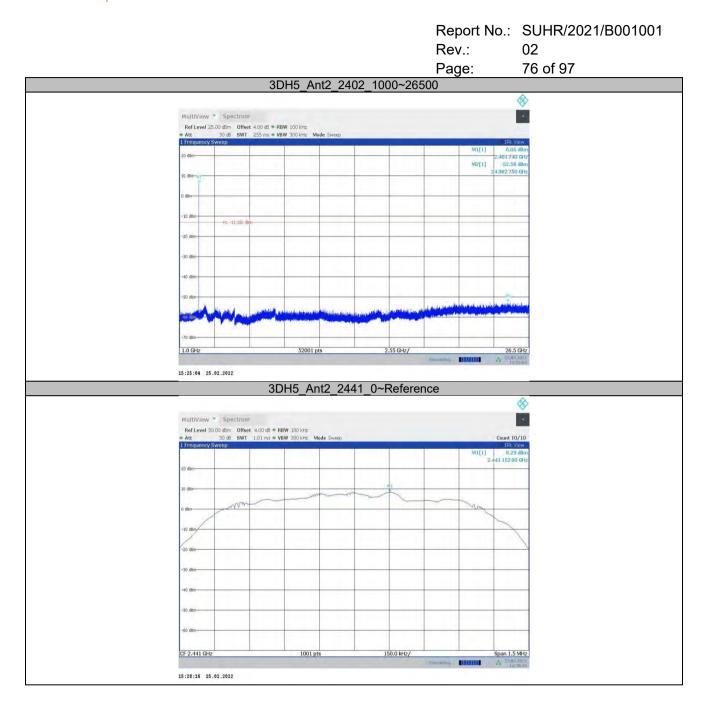
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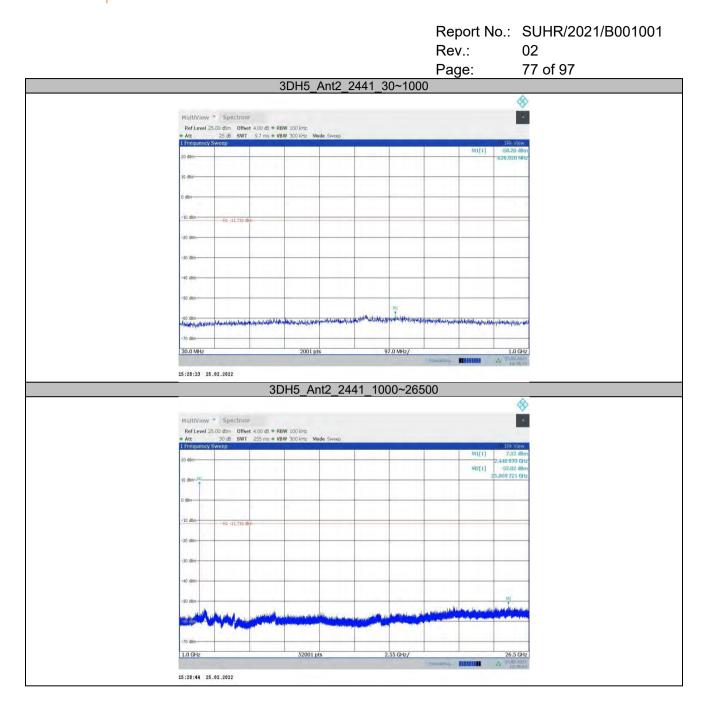


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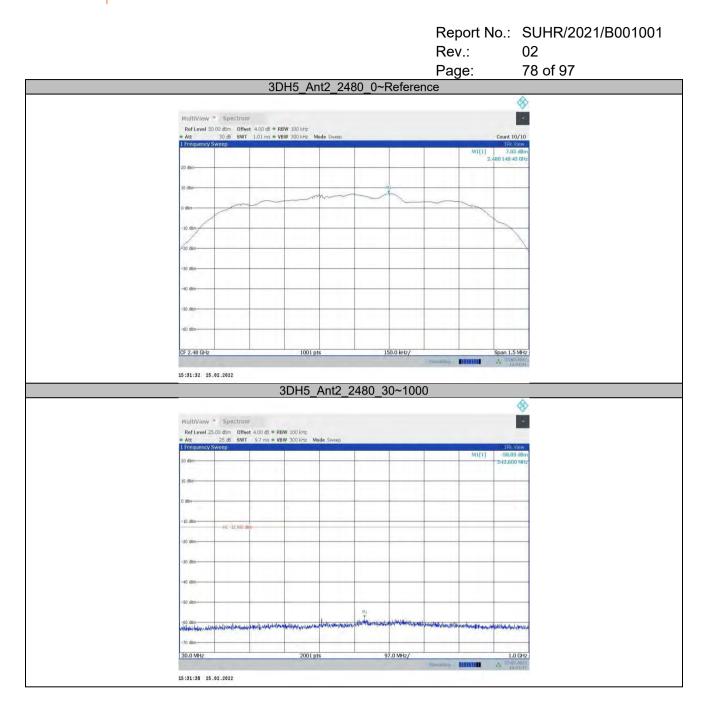


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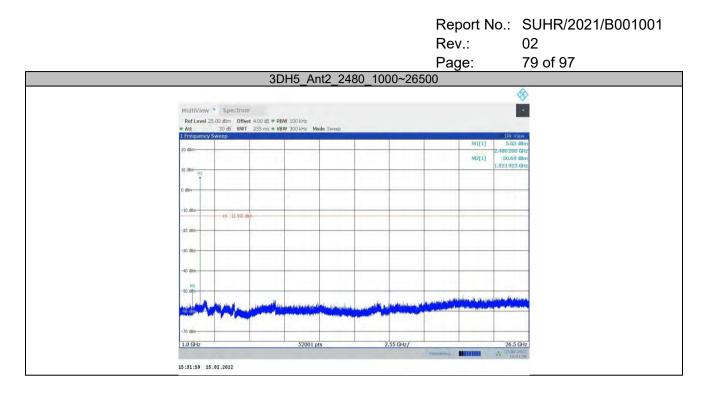


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Duty Cycle Test Result

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	Ant2	2441	2.88	3.75	76.80	1.15
		2480	2.89	3.76	76.86	1.14
	Ant2	2402	2.89	3.76	76.86	1.14
2DH5		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.75	77.07	1.13
3DH5	Ant2	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.75	77.07	1.13



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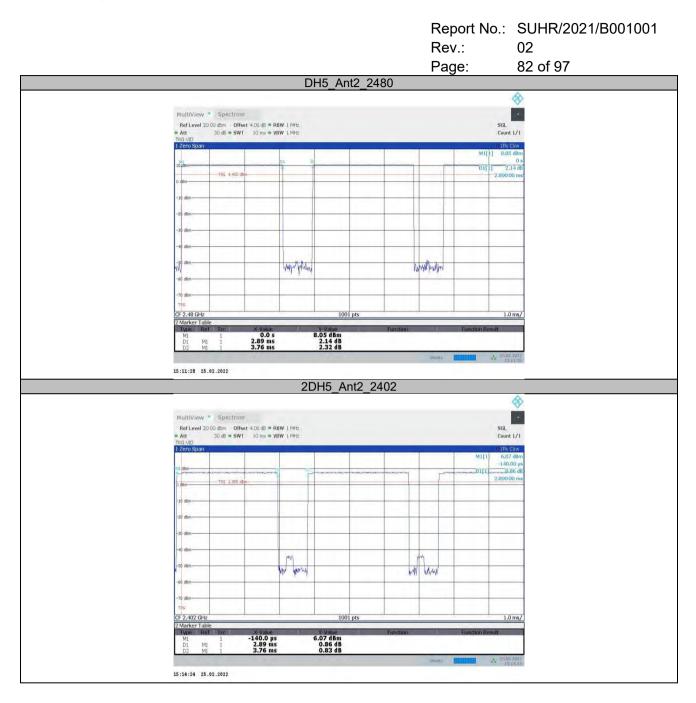
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DH5 Ant2 2402 \$ MultiView Spectrum * SGL Count 1/1 Ref Level 20.00 dBm Offset 4.00 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz 3.750 00 3.49 0 -TRG 3.700 000 why hype Mar Annual 2.402 GH 1001 pts 1.0 ms/ V Value 5.95 dBm 3.49 dB 3.70 dB X-Value 3.75 ms 2.89 ms 3.76 ms MJ 15:07:20 25.02.2022 DH5 Ant2 2441 Ô MultiView Spectru * Ref Level 20.00 dBm Offset 4.00 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz SGL Count 1/1 M1[1] 11.21 de 0 : D1[1] -0.18 df TRG 5.200 2,880.00 ANA HANAN WW WAW 2.441 GH 1001 pts 1.0 ms/ 0.0 s 2.88 ms 3.75 ms V Value 11.21 dBm -0.18 dB -0.03 dB D1 MI 15:09:18 25.02.2022

Test Graphs

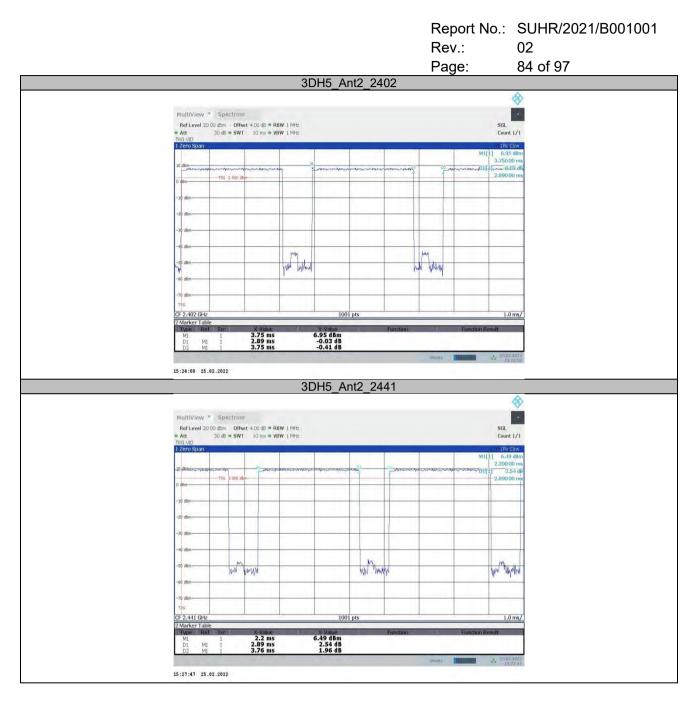




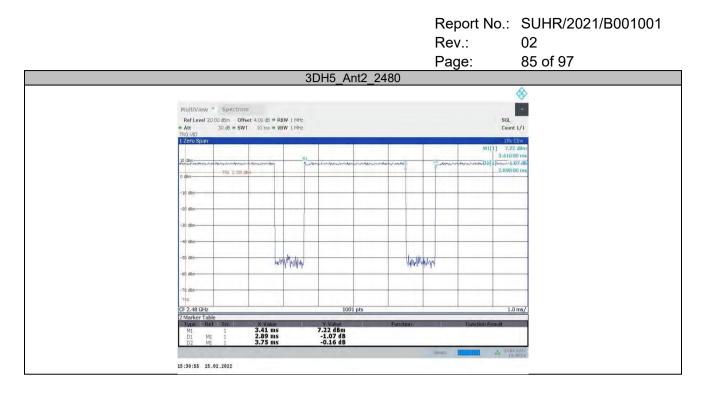














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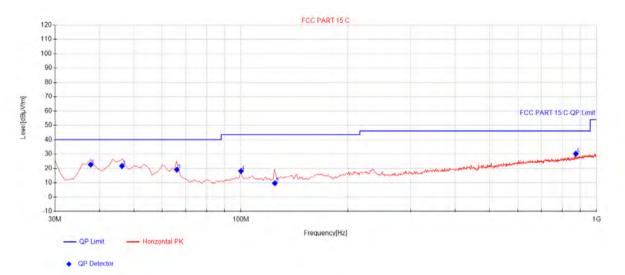
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case mode:GFSK (DH5_Channel 00)



Final	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	37.7990	39.33	-16.72	22.61	40.00	17.39	162	156	Horizontal					
2	46.2918	36.33	-14.72	21.61	40.00	18.39	185	257.6	Horizontal					
3	66.0490	36.91	-17.90	19.01	40.00	20.99	264	299.5	Horizontal					
4	100.0054	34.67	-16.57	18.10	43.50	25.40	199	73	Horizontal					
5	124.5508	28.29	-18.64	9.65	43.50	33.85	244	166.1	Horizontal					
6	874.9931	32.05	-1.84	30.21	46.00	15.79	152	181.4	Horizontal					



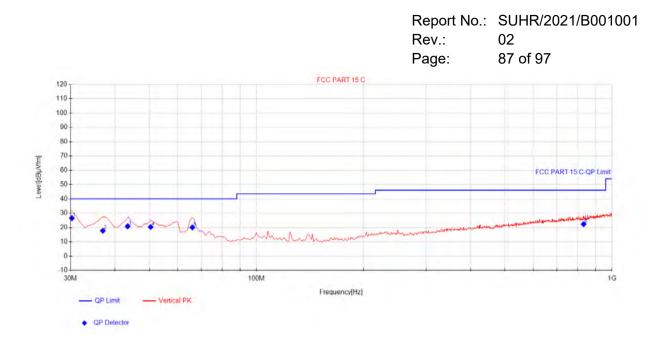
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Final	Final Data List													
NO.	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polarity					
	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	, oranity					
1	30.2620	44.80	-18.28	26.52	40.00	13.48	261	165.4	Vertical					
2	36.9715	34.76	-17.04	17.72	40.00	22.28	185	4	Vertical					
3	43.4207	36.03	-15.23	20.80	40.00	19.20	264	309.3	Vertical					
4	50.3977	34.63	-14.29	20.34	40.00	19.66	196	151.9	Vertical					
5	66.0299	37.92	-17.90	20.02	40.00	19.98	244	277.2	Vertical					
6	831.7209	24.72	-2.44	22.28	46.00	23.72	122	89.9	Vertical					



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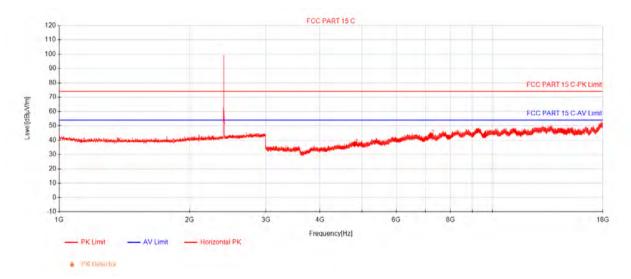
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Radiated emission Above 1GHz

GFSK_Channel 00



Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	4804	49.55	-12.33	37.22	74.00	36.78	341	319	Horizontal
2	4804	-	-	12.43	54.00	41.57	341	319	Horizontal
3	7206	49.38	-5.91	43.47	74.00	30.53	196	0	Horizontal
4	7206	-	-	18.68	54.00	35.32	196	0	Horizontal
5	9608	42.89	0.49	43.38	74.00	30.62	141	62	Horizontal
6	9608	-	-	18.59	54.00	35.41	141	62	Horizontal



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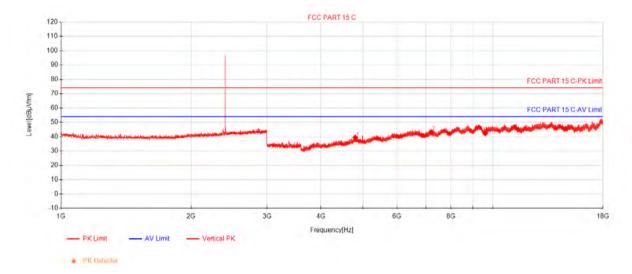
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GFSK_Channel 00

Data	Data List													
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle						
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity					
1	4804	51.76	-12.33	39.43	74.00	34.57	162	301	Vertical					
2	4804	-	-	14.64	54.00	39.36	162	301	Vertical					
3	7206	49.14	-5.91	43.23	74.00	30.77	185	20	Vertical					
4	7206	-	-	18.44	54.00	35.56	185	20	Vertical					
5	9608	41.77	0.49	42.26	74.00	31.74	294	258	Vertical					
6	9608	-	-	17.47	54.00	36.53	294	258	Vertical					



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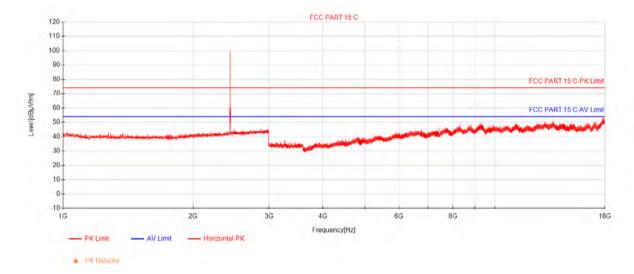
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GFSK_Channel 39

Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	4882	48.43	-12.48	35.95	74.00	38.05	142	57	Horizontal
2	4882	-	-	11.16	54.00	42.84	142	57	Horizontal
3	7323	47.49	-5.42	42.07	74.00	31.93	264	157	Horizontal
4	7323	-	-	17.28	54.00	36.72	264	157	Horizontal
5	9764	43.34	1.02	44.36	74.00	29.64	171	336	Horizontal
6	9764	-	-	19.57	54.00	34.43	171	336	Horizontal



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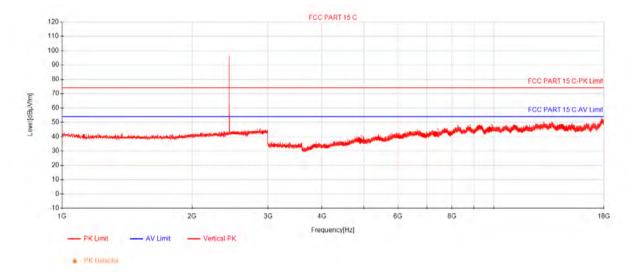
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Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	4882	50.18	-12.48	37.70	74.00	36.30	268	120	Vertical
2	4882	-	-	12.91	54.00	41.09	268	120	Vertical
3	7323	47.28	-5.42	41.86	74.00	32.14	175	204	Vertical
4	7323	-	-	17.07	54.00	36.93	175	204	Vertical
5	9764	44.15	1.02	45.17	74.00	28.83	241	343	Vertical
6	9764	-	-	20.38	54.00	33.62	241	343	Vertical



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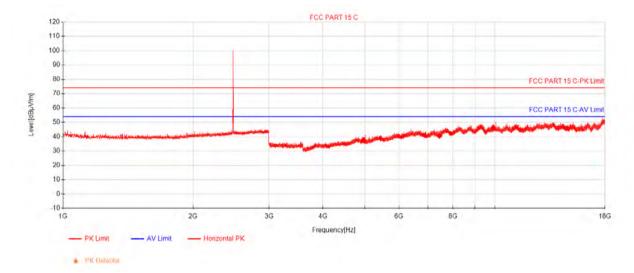
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GFSK_Channel 78

Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	4960	50.08	-12.41	37.67	74.00	36.33	296	343	Horizontal
2	4960	-	-	12.88	54.00	41.12	296	343	Horizontal
3	7440	45.85	-5.36	40.49	74.00	33.51	341	266	Horizontal
4	7440	-	-	15.70	54.00	38.30	341	266	Horizontal
5	9920	45.05	1.29	46.34	74.00	27.66	175	124	Horizontal
6	9920	-	-	21.55	54.00	32.45	175	124	Horizontal



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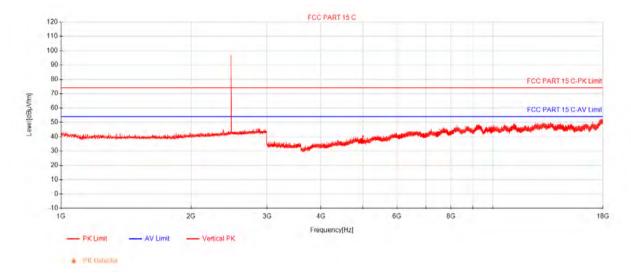
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Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	4960	49.49	-12.41	37.08	74.00	36.92	177	226	Vertical
2	4960	-	-	12.29	54.00	41.71	177	226	Vertical
3	7440	47.07	-5.36	41.71	74.00	32.29	264	0	Vertical
4	7440	-	-	16.92	54.00	37.08	264	0	Vertical
5	9920	42.84	1.29	44.13	74.00	29.87	186	40	Vertical
6	9920	-	-	19.34	54.00	34.66	186	40	Vertical



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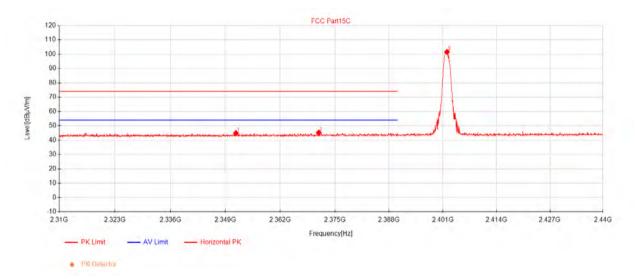
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Restricted bands around fundamental frequency

GFSK_Channel 00



Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2351.4838	41.88	3.10	44.98	74.00	29.02	162	203	Horizontal
2	2351.4838	-	-	20.19	54.00	33.81	162	203	Horizontal
3	2371.1637	42.07	3.18	45.25	74.00	28.75	162	203	Horizontal
4	2371.1637	-	-	20.46	54.00	33.54	162	203	Horizontal
5	2402	98.18	3.31	101.49	-	-	162	203	Horizontal
6	2402	-	-	76.70	-	-	162	203	Horizontal



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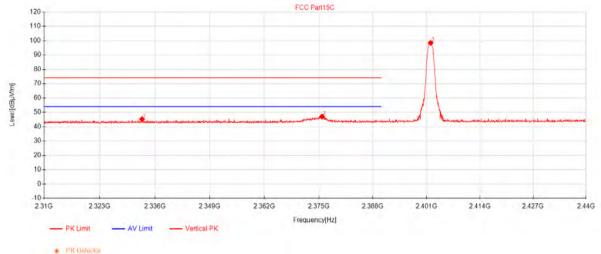
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Data	List								
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polority
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2332.9743	42.21	3.02	45.23	74.00	28.77	268	333	Vertical
2	2332.9743	-	-	20.44	54.00	33.56	268	333	Vertical
3	2375.8019	43.86	3.20	47.06	74.00	26.94	268	333	Vertical
4	2375.8019	-	-	22.27	54.00	31.73	268	333	Vertical
5	2402	95.08	3.31	98.39	-	-	268	333	Vertical
6	2402	-	-	73.60	-	-	268	333	Vertical

GFSK_Channel 00



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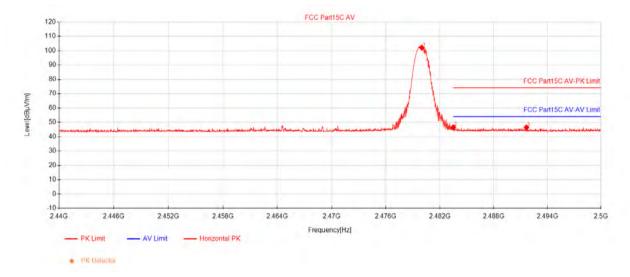
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Data	List								
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2480	98.15	3.88	102.03	-	-	178	210	Horizontal
2	2480	-	-	77.24	-	-	178	210	Horizontal
3	2483.5	42.59	3.91	46.50	74.00	27.50	178	210	Horizontal
4	2483.5	-	-	21.71	54.00	32.29	178	210	Horizontal
5	2491.6572	42.41	3.97	46.38	74.00	27.62	178	210	Horizontal
6	2491.6572	-	-	21.59	54.00	32.41	178	210	Horizontal

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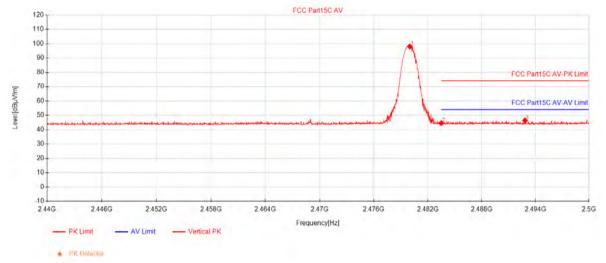
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Data List									
	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	۲°۱	Polarity
		լորիտով	[ub]	լորիչյալ	[αρμν/iii]	[ub]	[cm]	[°]	
1	2480	94.03	3.88	97.91	-	-	332	330	Vertical
2	2480	-	-	73.12	-	-	332	330	Vertical
3	2483.5	40.56	3.91	44.47	74.00	29.53	332	330	Vertical
4	2483.5	-	-	19.68	54.00	34.32	332	330	Vertical
5	2492.8376	42.36	3.98	46.34	74.00	27.66	332	330	Vertical
6	2492.8376	-	-	21.55	54.00	32.45	332	330	Vertical

The End



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