

Report No.: SEWM2209000195RG01

Rev.:

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TEST REPORT

SEWM2209000195RG **Application No.:**

Applicant: Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, **Address of Applicant:**

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Address of Manufacturer:

Minhang District, Shanghai, China 200233

EUT Description: Smart Module Model No.: SC206E-WF Trade Mark: QUECTEL

FCC ID: XMR2022SC206EWF

FCC 47 CFR Part 2, Subpart J Standards: FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/05/07

2022/05/10 to 2022/06/24 (for original report SEWA2205000012RG02) **Date of Test:**

2022/10/30 to 2022/12/16 (for new report SEWM2209000195RG01)

Date of Issue: 2022/12/19

Test Result: PASS *

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager





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1 Version

Revision Record					
Version Chapter Date Modifier Remark					
01		2022/12/19		Original	

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



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2 Test Summary

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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Remark for SEWA2205000012RG02 issue on 2022/06/24:

According to customer statement, SC200E-NA has two versions of samples, full test LPDDR4X version, LPDDR3 version to check LPDDR4X worse mode, the final report only presents the worst data of the two versions.

Remark for SEWM2209000195RG01 issue on 2022/12/19:

This test report (Report No.: SEWM2209000195RG01 issue on 2022/12/19) is based on the original test report (Report No.: SEWA2205000012RG02 issue on 2022/06/24).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the items of Power and AC Power Line Conducted Emission were fully tested, radiated spurious emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWA2205000012RG02 issue on 2022/06/24 and other test data in this report are based on the previous report with report number SEWA2205000012RG02 issue on 2022/06/24.



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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, Area, China (Jiangsu) Pilot Free Trade Zone	
Post code:	215000
Test engineer:	King-p Li, Ives Cheng, Tizzy Song

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

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

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

suitability, reliability or/and integrity of the information.

EUT Description:	Smart Module			
Model No.:	SC206E-WF			
Trade Mark:	QUECTEL			
Hardware Version:	LPDDR4X: R1.0			
Software Version:	SC206EWFNAR60A02			
SN:	E1C22HO20000032			
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.			
Bluetooth version:	Bluetooth V5.0			
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Number of Channel:	79			
Hopping Channel Type:	Adaptive Frequency Hopping systems			
Antenna Type:	⊠External, □Integrated			
	0.47dBi(Ant0)			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	0.5dB			
Remark:				
As above information is prov	ided and confirmed by the applicant. SGS is not liable to the accuracy,			



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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:

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

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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.8		
Remark:				

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.			
Mother board	QUECTEL	SMART-EVB-G2_V1.3			
Adapter	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.

Non-standard antenna connector is used.

The antenna peak gain of EUT is less than 6 dBi, Therefore, it is not necessary to reduce maximum peak output power limit.



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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.

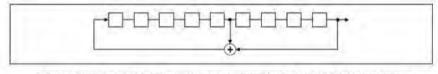
Compliance for section 15.247(a)(1):

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)

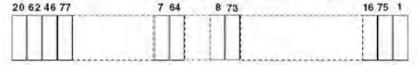
Linear Feedback Shift Register for Generation of the PRBS sequence

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:



Each frequency used equally on the average by each transmitter.



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

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

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



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4.3 AC Power Line Conducted Emissions

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:	Fraguenov rango (MHz)	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:	The mains terminal coroom.	listurbance voltage test was	conducted in a shielded	
	2) The EUT was connected to AC power source through a LISN Impedance Stabilization Network) which provides a 50Ω/50µH + 5 impedance. The power cables of all other units of the EU connected to a second LISN 2, which was bonded to the ground re plane in the same way as the LISN 1 for the unit being meas multiple socket outlet strip was used to connect multiple power cab single LISN provided the rating of the LISN was not exceeded.			
	3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.			
	4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.			
5) In order to find the maximum emission, the relative positions of earth and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.				



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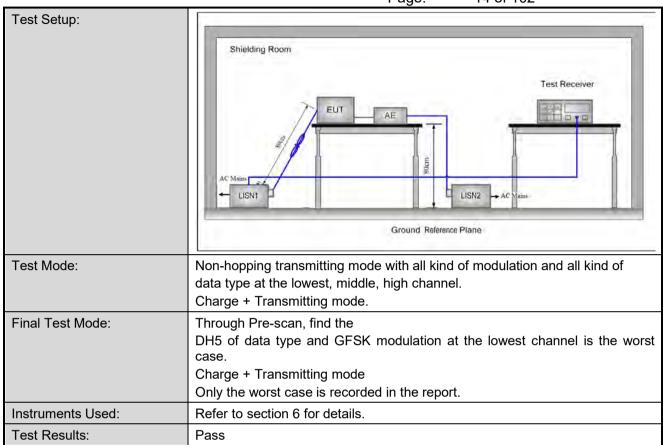
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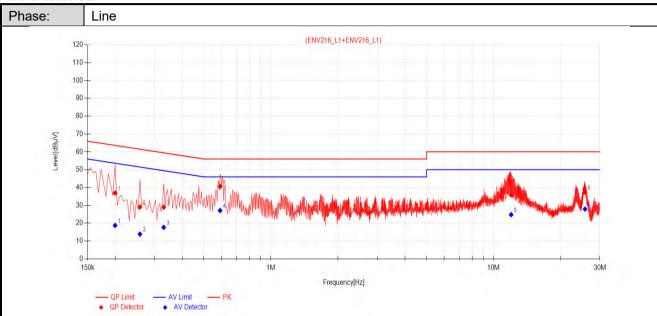
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Measurement Data

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.



Final	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	0.1995	10.82	26.08	36.90	63.63	26.73	7.93	18.75	53.63	34.88	PASS
2	0.2580	10.76	18.34	29.10	61.50	32.40	3.10	13.86	51.50	37.64	PASS
3	0.3300	10.55	18.42	28.97	59.45	30.48	7.12	17.67	49.45	31.78	PASS
4	0.5910	10.51	30.09	40.60	56.00	15.40	16.62	27.13	46.00	18.87	PASS
5	11.9895	10.59	25.20	35.79	60.00	24.21	14.19	24.78	50.00	25.22	PASS
6	25.7280	10.28	27.11	37.39	60.00	22.61	17.64	27.92	50.00	22.08	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[dBµV] Value[dBµV]



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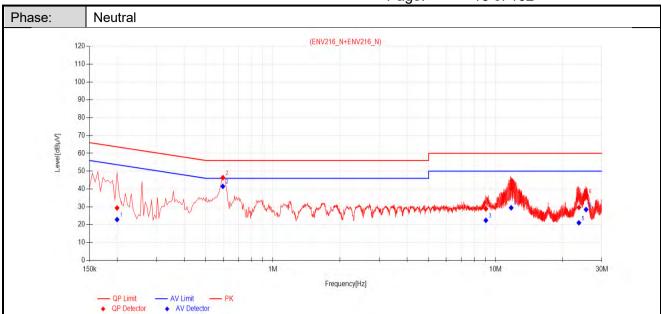
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Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	10.66	18.72	29.38	63.63	34.25	12.19	22.85	53.63	30.78	PASS
2	0.5955	10.69	35.63	46.32	56.00	9.68	30.79	41.48	46.00	4.52	PASS
3	9.0420	10.63	18.24	28.87	60.00	31.13	11.78	22.41	50.00	27.59	PASS
4	11.7465	10.65	29.59	40.24	60.00	19.76	18.81	29.46	50.00	20.54	PASS
5	23.6625	10.50	19.18	29.68	60.00	30.32	10.54	21.04	50.00	28.96	PASS
6	25.4850	10.52	25.52	36.04	60.00	23.96	17.97	28.49	50.00	21.51	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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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)&15.247 (b)(1)				
Test Method:	ANSI C63.10:2013 Section 11.9.2.3				
Test Setup:	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.				
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:	0.125 watts				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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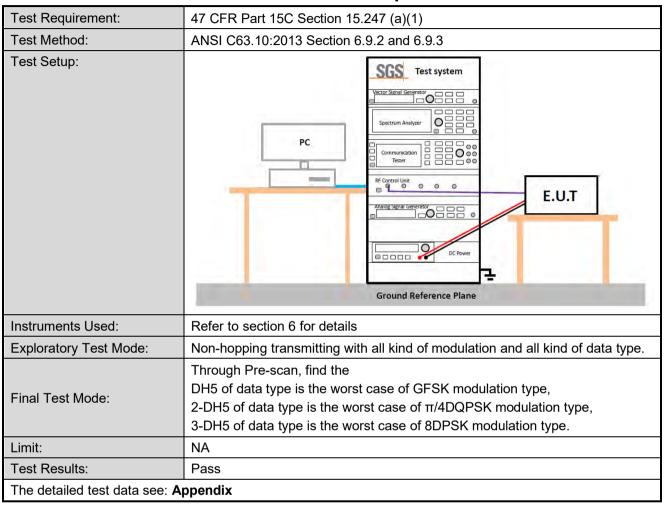


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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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4.6 Carrier Frequencies Separationy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
Test Setup:	PC Signal Generator				
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: A	ppendix				



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4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.3				
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer Communication Fector Unit Communication For DC Rower 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	e: Appendix				



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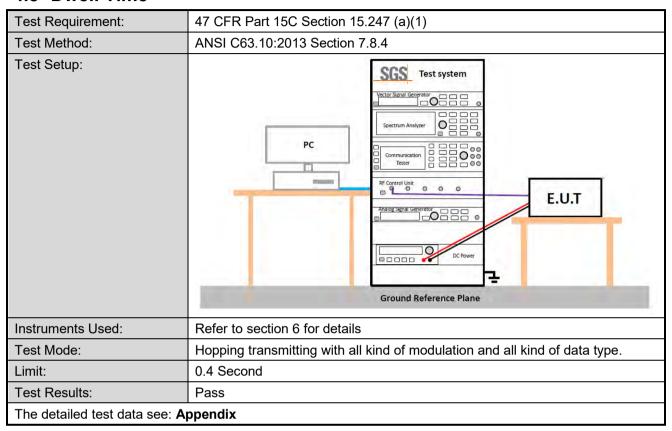


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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.7.2				
Test Setup:	SGS Test system Sector Signal Generator				
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

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 Section 7.8.7.1					
Test Setup:	PC Spectrum Analyzer O O O O O O O O O					
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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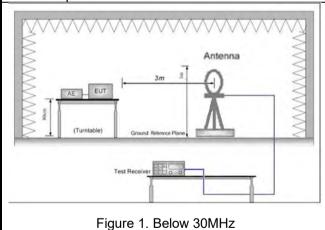
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4.11 Radiated Spurious Emissions

	•					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 :2013 Section	on 6.4 / 6.5 / 6.6				
Test Site:	Measurement Distance: 3	sm (Semi-Anechoid	Chamber)			
Test Frequency:	9kHz ~ 25GHz					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz 24000/F(kHz)				30	
1.705MHz-30MHz 30				-	30	
	30MHz-88MHz 100 40.0 Quasi-peak				3	
	88MHz-216MHz 150 43.5 Quasi-peak				3	
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz 500 54.0 Quasi-peak 3					
	Above 1GHz 500 54.0 Average 3					
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:



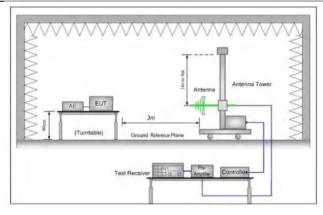


Figure 2. 30MHz to 1GHz



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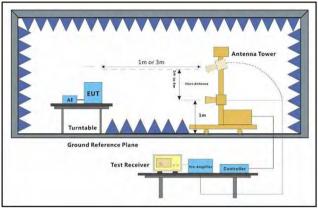


Figure 3. Above 1 GHz

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 antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

Peak Measurements Above 1000 MHz



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	Fage. 20 01 102					
	• 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 N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.					
Average Value = Peak Value +20*log(Duty cycle).						
Evaleratem: 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 data	a see: Appendix					



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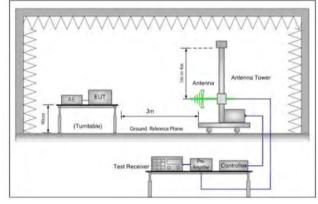
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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 7.8.8.3					
Test Site:	Measurement Distance: 3m	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				
	Above IGH2	74.0	Peak Value				

Test Setup:



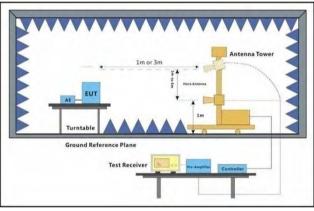


Figure 1. 30MHz to 1GHz

Figure 2. 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.
- 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.
- 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 Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N₁*L₁ + N₂*L₂+N _{N-1} *L _{N-1} + N _N *L _N Where N₁ is number of type 1 pulese, L₁ 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)		
	Dedicted Emission	± 4.80dB (30M -1GHz)		
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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

RF Test Equipment							
Test Equipment	Manufacturer	Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2021/05/28	2022/05/27		
				2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Cianal Analyzar	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2021/05/29	2022/05/28		
Signal Analyzer				2022/05/28	2023/05/27		
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13		
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		
				2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03		
				2022/11/23	2023/11/22		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14		

CE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18	
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR	



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	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	2021/05/29	2022/05/28	
	NOTIBERGOTIWANZ			2022/05/28	2023/05/27	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03	
Signal Analyzei	KLTOIGITI			2022/11/23	2023/11/22	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
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-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency [MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant0	2402	0.94	2401.54	2402.48	
		2441	0.94	2440.53	2441.48	
		2480	0.94	2479.54	2480.47	
2DH5	Ant0	2402	1.28	2401.37	2402.65	Departing
		2441	1.29	2440.36	2441.65	Reporting only
		2480	1.28	2479.37	2480.65	Offity
3DH5	Ant0	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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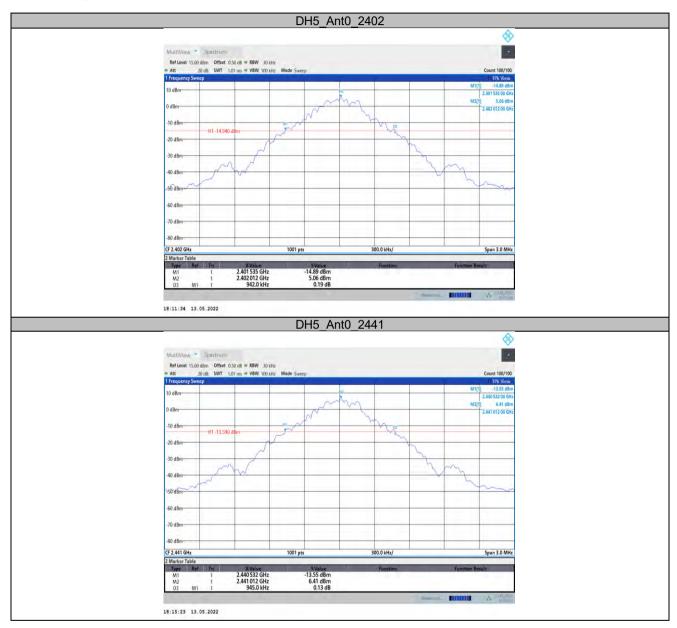


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Test Graphs





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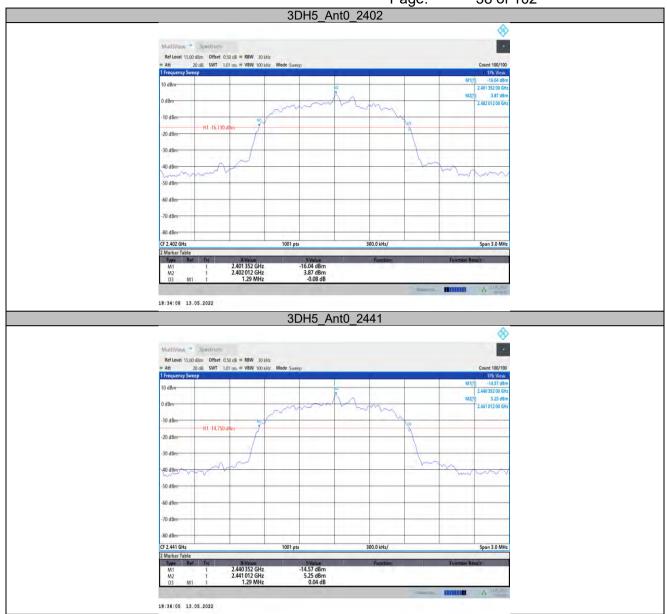
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict	
DH5	Ant0	2402	0.860	2401.565	2402.426		
		2441	0.869	2440.561	2441.430		
		2480	0.862	2479.562	2480.424		
	Ant0	Ant0	2402	1.174	2401.407	2402.582	Donorting
2DH5			2441	1.176	2440.406	2441.581	Reporting only
		2480	1.179	2479.405	2480.584	Offig	
3DH5	Ant0		2402	1.175	2401.411	2402.585	
		2441	1.178	2440.409	2441.587		
		2480	1.180	2479.408	2480.588		



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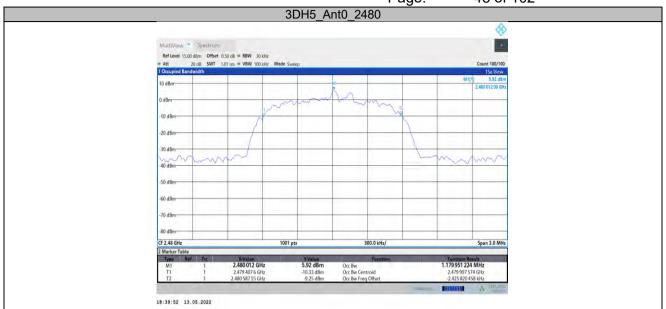
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	7.18	≤20.97	PASS
DH5	Ant1	2441	8.38	≤20.97	PASS
		2480	9.10	≤20.97	PASS
2DH5	Ant1	2402	8.09	≤20.97	PASS
		2441	9.36	≤20.97	PASS
		2480	10.00	≤20.97	PASS
		2402	8.29	≤20.97	PASS
3DH5	Ant1	2441	9.32	≤20.97	PASS
		2480	9.78	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant0	Нор	1.020	≥0.940	PASS
2DH5	Ant0	Нор	1.056	≥0.860	PASS
3DH5	Ant0	Нор	1.138	≥0.860	PASS



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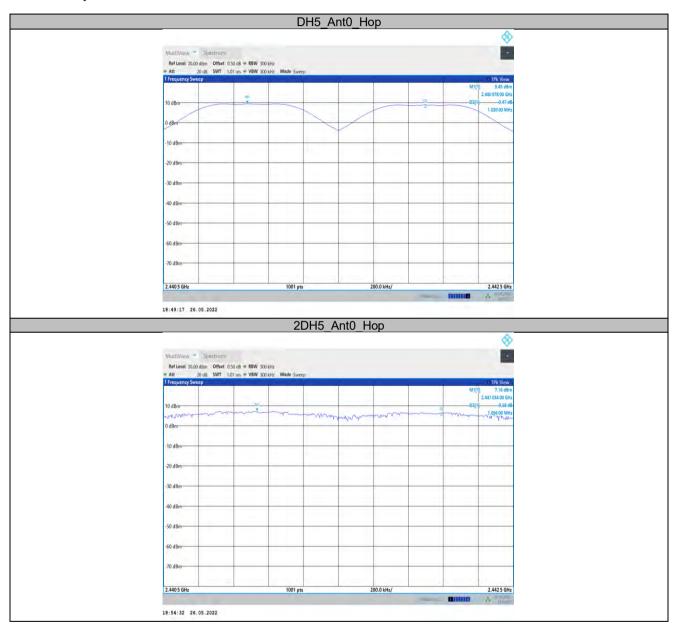


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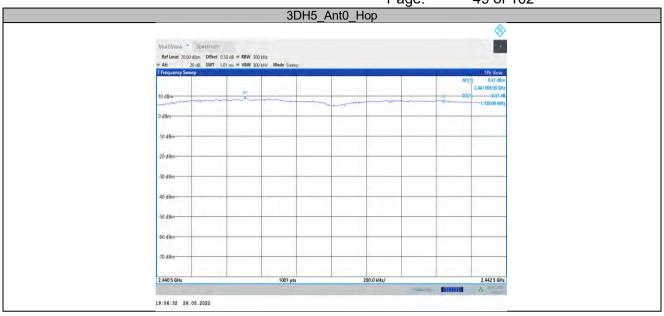
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Time of occupancy Test Result

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	1.63	160	0.261	≤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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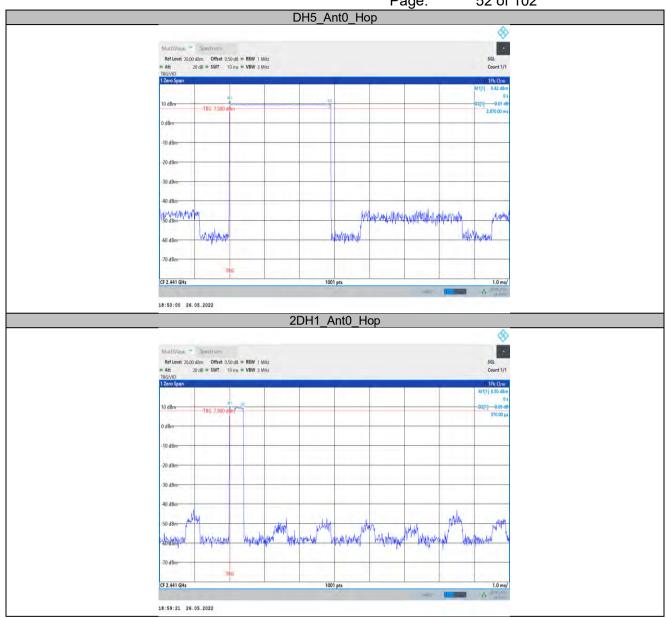
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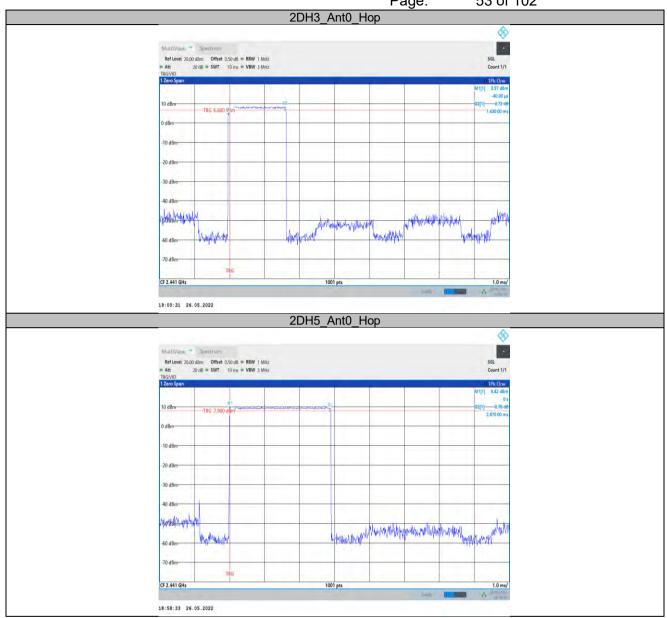
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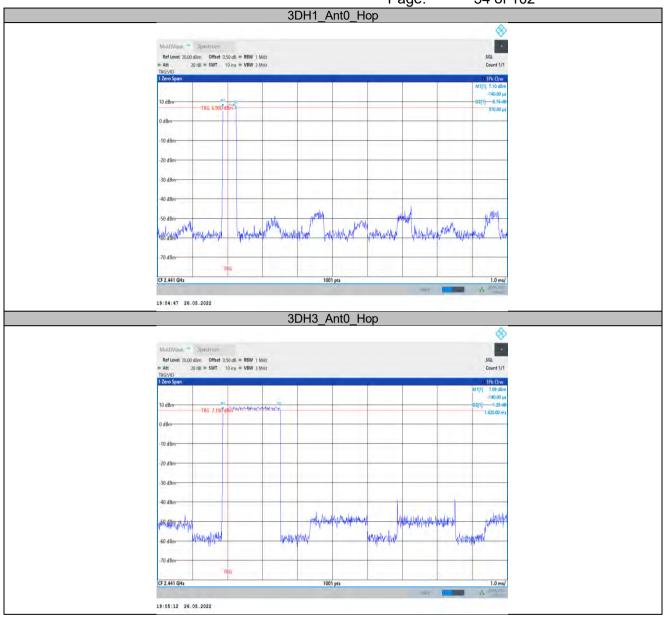
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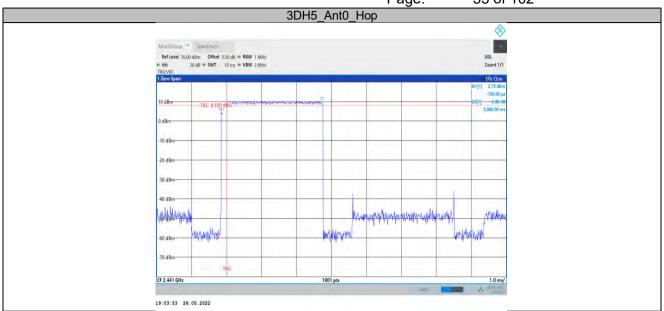
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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant0	Нор	79	≥15	PASS
2DH5	Ant0	Нор	79	≥15	PASS
3DH5	Ant0	Hop	79	≥15	PASS



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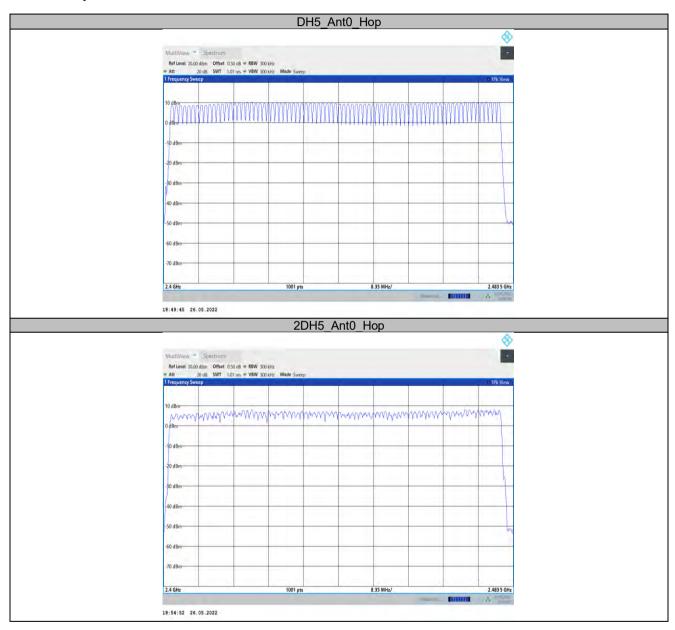


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Test Graphs





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Band edge measurements Test Graphs





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Conducted Spurious Emission Test Graphs





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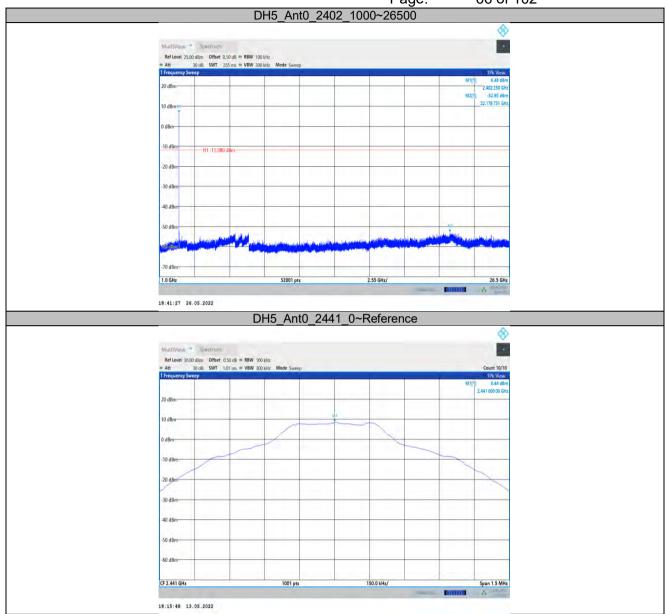
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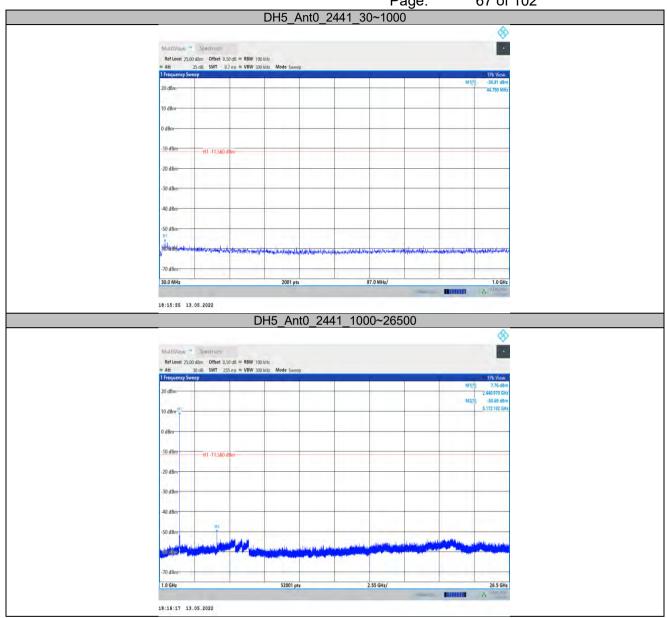
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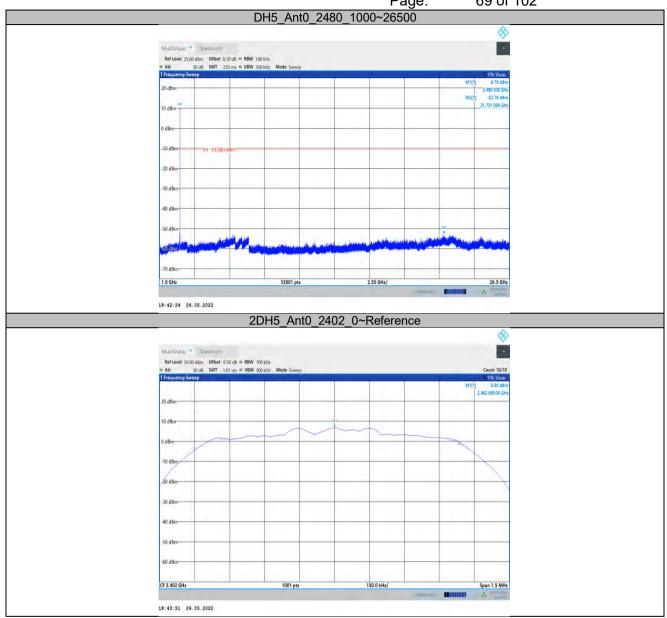
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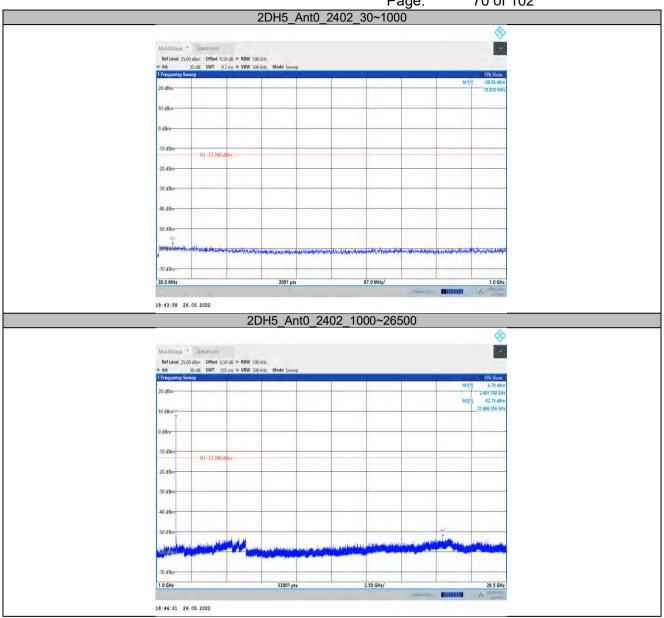
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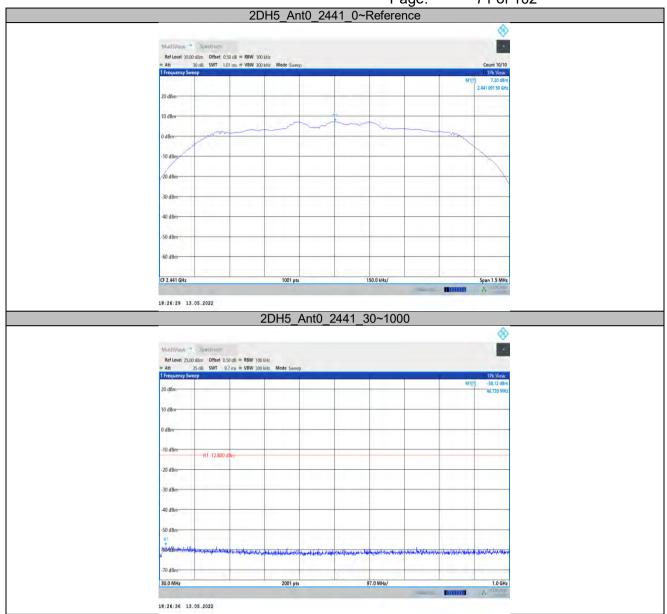
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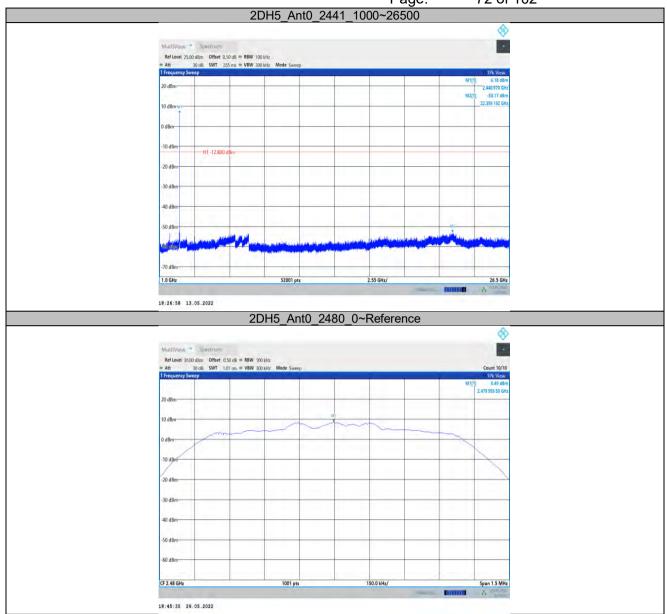
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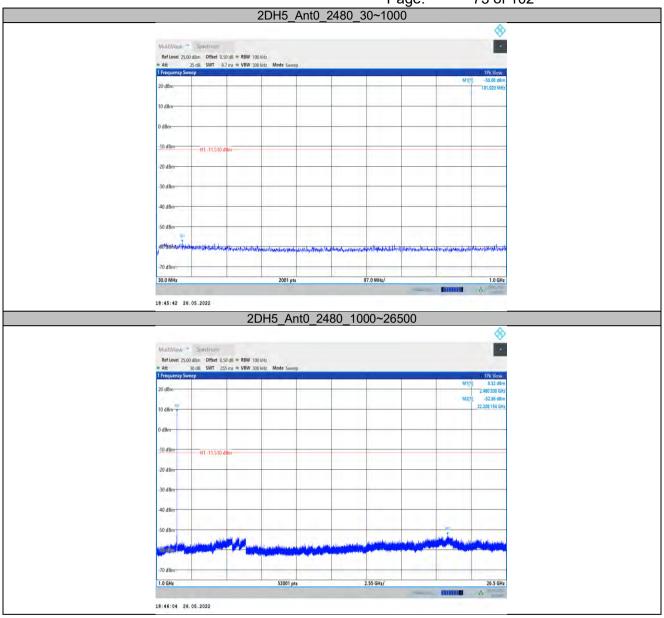
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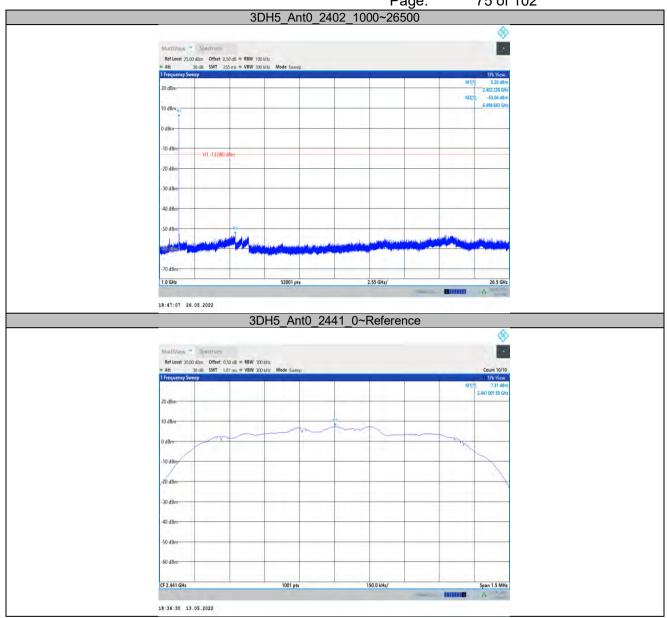
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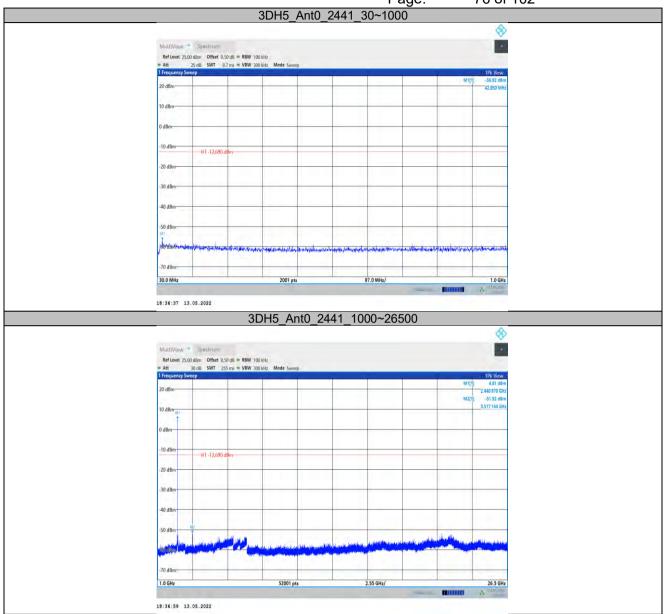
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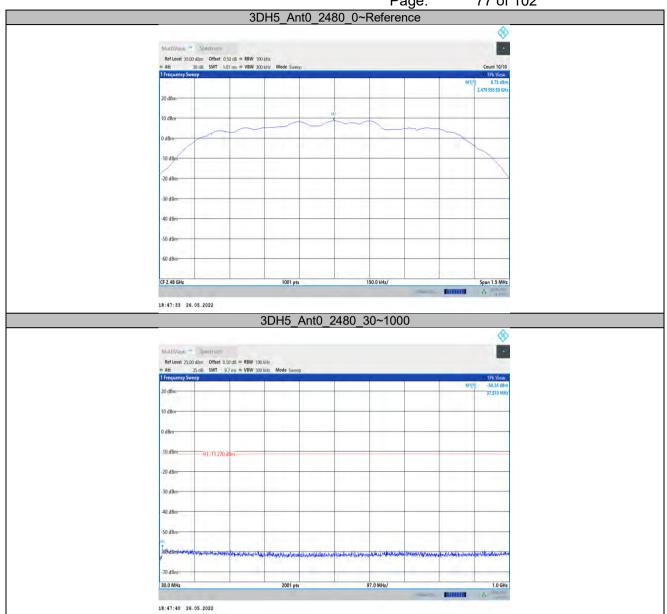
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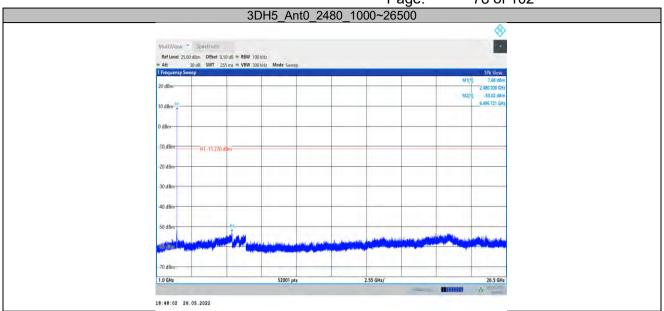
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Duty Cycle Test Result

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	Ant0	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	Ant0	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
		2402	2.89	3.75	77.07	1.13
3DH5	Ant0	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13



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Test Graphs





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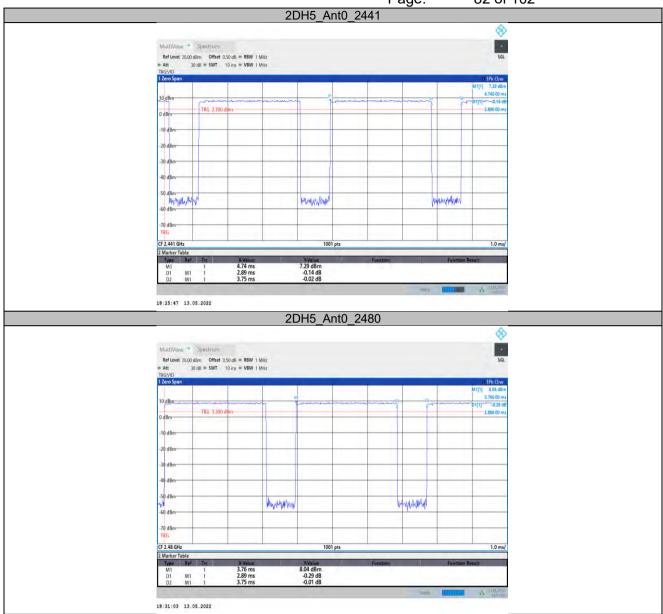
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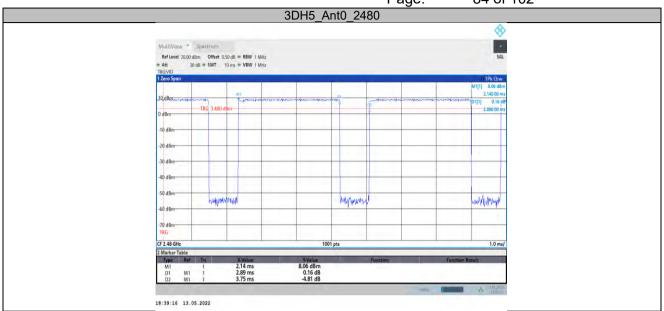
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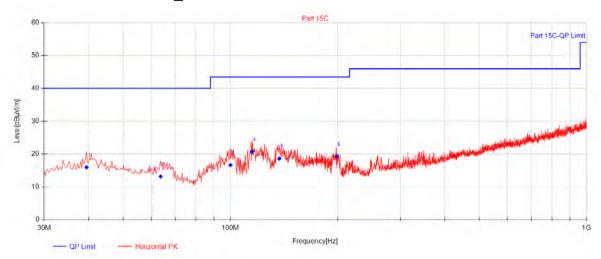
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK _ Channel 78



Final	Final Data List												
NO	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	D				
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	39.4575	38.26	-22.30	15.96	40.00	24.04	142	108	Horizontal				
2	63.7075	37.56	-24.41	13.15	40.00	26.85	251	219	Horizontal				
3	100.0825	42.26	-25.61	16.65	43.50	26.85	236	238	Horizontal				
4	115.1175	45.18	-24.45	20.73	43.50	22.77	188	270	Horizontal				
5	137.185	40.89	-22.27	18.62	43.50	24.88	194	67	Horizontal				
6	198.78	44.28	-25.00	19.28	43.50	24.22	172	244	Horizontal				



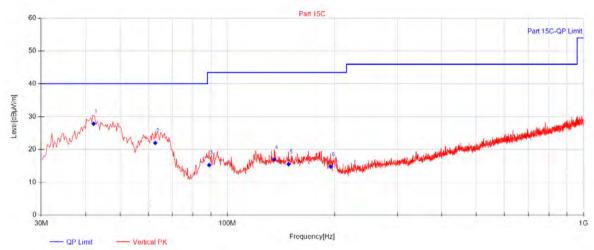
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Final	Final Data List												
NO	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	D. L. St.				
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	42.125	50.18	-22.35	27.83	40.00	12.17	155	90	Vertical				
2	62.7375	46.22	-24.21	22.01	40.00	17.99	184	227	Vertical				
3	88.9275	42.18	-26.92	15.26	43.50	28.24	196	90	Vertical				
4	135.4875	39.33	-22.41	16.92	43.50	26.58	172	276	Vertical				
5	148.5825	37.02	-21.50	15.52	43.50	27.98	140	11	Vertical				
6	195.1425	39.01	-24.23	14.78	43.50	28.72	201	113	Vertical				



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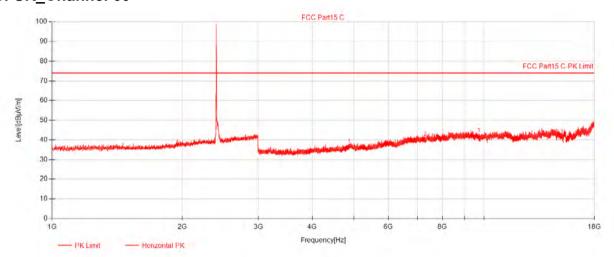


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Transmitter emission Above 1GHz GFSK Channel 00



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	49.50	-13.21	36.29	74.00	37.71	168	155	Horizontal
2	4804.0000	Ī	ı	12.41	54.00	41.59	-	-	Horizontal
3	7206.0000	47.07	-6.84	40.23	74.00	33.77	194	260	Horizontal
4	7206.0000	ı	ı	16.35	54.00	37.65	-	-	Horizontal
5	9608.0000	43.12	-1.22	41.90	74.00	32.10	172	43	Horizontal
6	9608.0000	-	-	18.02	54.00	35.98	-	-	Horizontal



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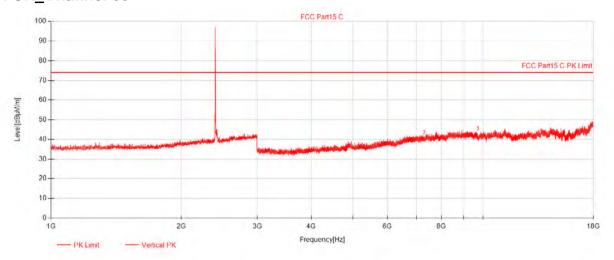


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GFSK_Channel 00



Final	l Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.04	-13.21	34.83	74.00	39.17	125	97	Vertical
2	4804.0000	-	-	10.95	54.00	43.05	-	-	Vertical
3	7206.0000	47.34	-6.84	40.50	74.00	33.50	144	316	Vertical
4	7206.0000	ı	-	16.62	54.00	37.38	-	-	Vertical
5	9608.0000	43.66	-1.22	42.44	74.00	31.56	166	1	Vertical
6	9608.0000	-	-	18.56	54.00	35.44	-	-	Vertical



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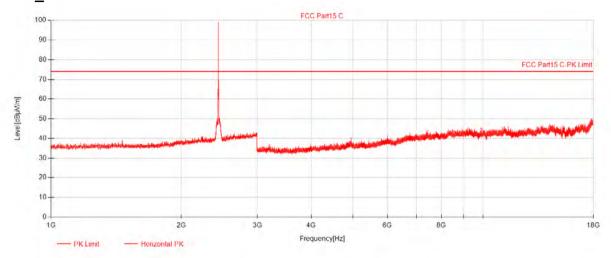


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Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	49.30	-12.98	36.32	74.00	37.68	266	317	Horizontal
2	4882.0000	-	-	12.44	54.00	41.56	-	-	Horizontal
3	7323.0000	47.22	-7.14	40.08	74.00	33.92	233	165	Horizontal
4	7323.0000	ı	ı	16.20	54.00	37.80	-	-	Horizontal
5	9764.0000	42.51	-1.21	41.30	74.00	32.70	125	261	Horizontal
6	9764.0000	-	-	17.42	54.00	36.58	-	-	Horizontal



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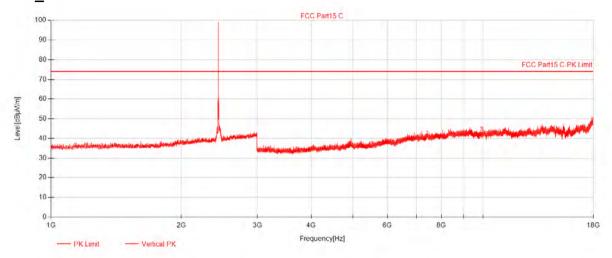


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GFSK_Channel 39



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	49.10	-12.98	36.12	74.00	37.88	181	249	Vertical
2	4882.0000	-	-	12.24	54.00	41.76	-	-	Vertical
3	7323.0000	46.92	-7.14	39.78	74.00	34.22	194	191	Vertical
4	7323.0000	ı	ı	15.90	54.00	38.10	ı	-	Vertical
5	9764.0000	43.06	-1.21	41.85	74.00	32.15	172	287	Vertical
6	9764.0000	-	-	17.97	54.00	36.03	-	-	Vertical



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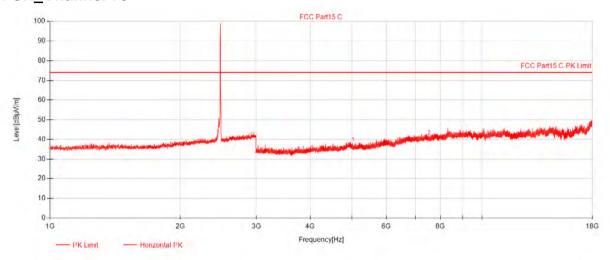


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GFSK_Channel 78



Final	l Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.74	-12.83	36.91	74.00	37.09	133	166	Horizontal
2	4960.0000	-	-	13.03	54.00	40.97	-	-	Horizontal
3	7440.0000	47.43	-6.83	40.60	74.00	33.40	266	208	Horizontal
4	7440.0000	ı	-	16.72	54.00	37.28	-	ı	Horizontal
5	9920.0000	42.36	-0.93	41.43	74.00	32.57	254	330	Horizontal
6	9920.0000	-	-	17.55	54.00	36.45	-	-	Horizontal



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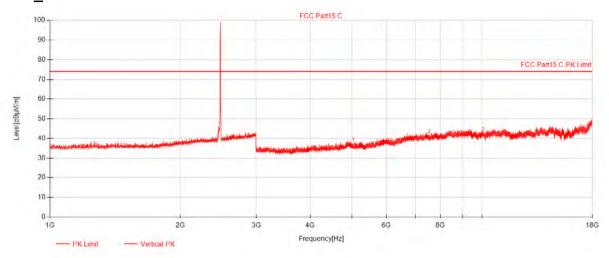


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Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.16	-12.83	36.33	74.00	37.67	145	125	Vertical
2	4960.0000	-	-	12.45	54.00	41.55	-	-	Vertical
3	7440.0000	47.57	-6.83	40.74	74.00	33.26	168	123	Vertical
4	7440.0000	-	-	16.86	54.00	37.14	-	-	Vertical
5	9920.0000	42.52	-0.93	41.59	74.00	32.41	194	26	Vertical
6	9920.0000	-	-	17.71	54.00	36.29	-	-	Vertical



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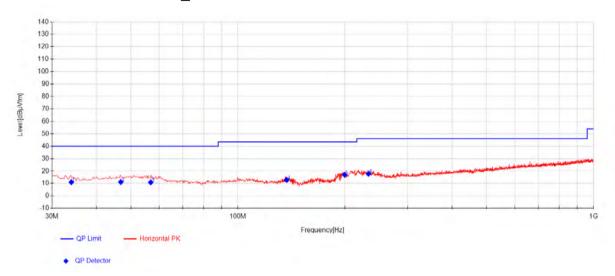
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Test on the worst case:

Radiated emission below 1GHz

Worst case Mode: GFSK _ Channel 78



Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.9923	28.87	-28.39	10.61	11.09	40.00	28.91	179	0	Horizontal
2	46.8218	25.89	-28.03	13.34	11.20	40.00	28.80	120	323	Horizontal
3	56.8590	26.54	-27.75	12.14	10.93	40.00	29.07	100	9	Horizontal
4	137.1032	32.22	-27.14	7.75	12.83	43.50	30.67	217	28	Horizontal
5	199.5578	33.31	-26.98	10.62	16.95	43.50	26.55	179	4	Horizontal
6	232.8097	32.47	-26.46	11.76	17.77	46.00	28.23	120	74	Horizontal



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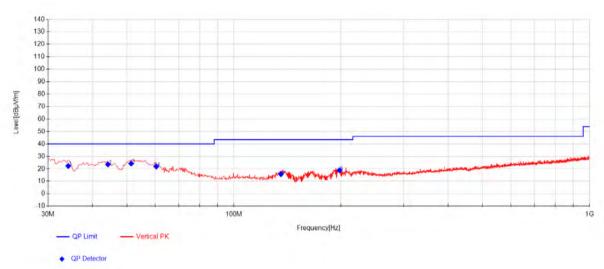
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Fina	l Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.1959	39.99	-28.36	10.65	22.28	40.00	17.72	100	276	Vertical
2	44.2263	38.67	-28.05	12.91	23.53	40.00	16.47	112	1	Vertical
3	51.4017	38.64	-27.96	13.48	24.16	40.00	15.84	263	241	Vertical
4	60.4626	38.17	-27.63	11.32	21.86	40.00	18.14	241	169	Vertical
5	135.5684	35.12	-27.14	7.76	15.74	43.50	27.76	106	180	Vertical
6	198.0267	35.43	-27.05	10.39	18.77	43.50	24.73	113	178	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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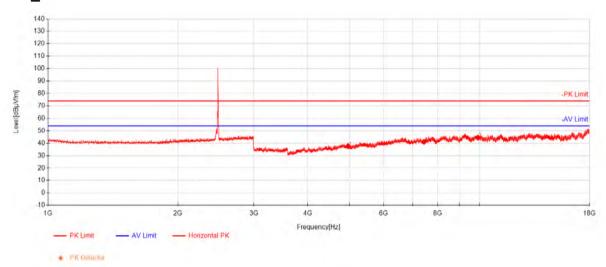
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Transmitter emission Above 1GHz

GFSK_Channel 78



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	50.08	32.50	-44.92	37.67	74.00	36.33	265	253	Horizontal
2	4960	-	1	ı	12.88	54.00	41.12	-	ı	Horizontal
3	7440	46.38	36.46	-41.83	41.02	74.00	32.98	201	240	Horizontal
4	7440	-	-	-	16.23	54.00	37.77	-	-	Horizontal
5	9920	43.32	38.51	-37.22	44.61	74.00	29.39	174	7	Horizontal
6	9920	-	ı	-	19.82	54.00	34.18	-	-	Horizontal



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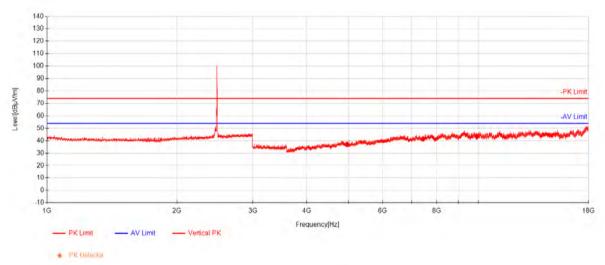


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GFSK_Channel 78



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	49.46	32.50	-44.92	37.05	74.00	36.95	185	329	Vertical			
2	4960	-	-	-	12.26	54.00	41.74	185	329	Vertical			
3	7440	46.79	36.46	-41.83	41.43	74.00	32.57	145	32	Vertical			
4	7440	-	-	-	16.64	54.00	37.36	145	32	Vertical			
5	9920	41.89	38.51	-37.22	43.18	74.00	30.82	264	72	Vertical			
6	9920	-	-	-	18.39	54.00	35.61	264	72	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($dB\mu V/m$) – Level($dB\mu V/m$)

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



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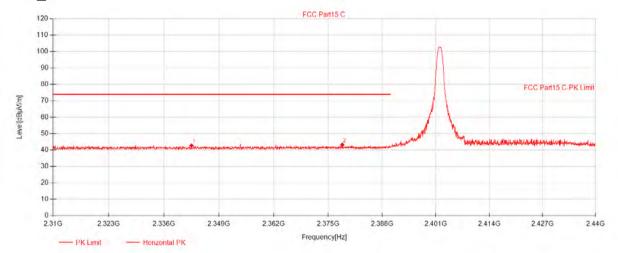
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Restricted bands around fundamental frequency

GFSK_Channel 00



Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2342.5	39.64	3.09	42.73	74.00	31.27	166	328	Horizontal				
2	2342.5	ı	-	18.85	54.00	35.15	ı		Horizontal				
3	2378.4233	40.16	3.08	43.24	74.00	30.76	166	328	Horizontal				
4	2378.4233	-	-	19.36	54.00	34.64	-	-	Horizontal				



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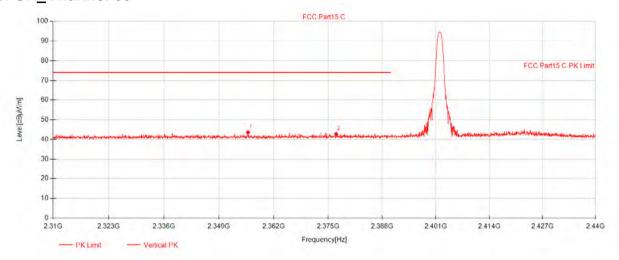


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GFSK_Channel 00



Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2355.89	40.50	3.08	43.58	74.00	30.42	199	155	Vertical				
2	2355.89	-	-	19.70	54.00	34.30	-	-	Vertical				
3	2376.95	39.71	3.08	42.79	74.00	31.21	199	155	Vertical				
4	2376.95	-	-	18.91	54.00	35.09	-	-	Vertical				



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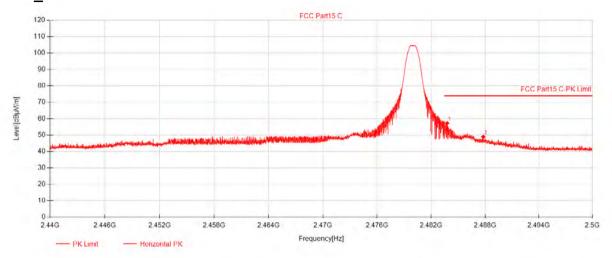


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Final	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2483.785	53.69	3.60	57.29	74.00	16.71	166	179	Horizontal					
2	2483.785	-	-	33.41	54.00	20.59	-	-	Horizontal					
3	2487.805	45.34	3.62	48.96	74.00	25.04	166	179	Horizontal					
4	2487.805	-	-	25.08	54.00	28.92	-	-	Horizontal					



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t (86-512) 62992980 t (86-512) 62992980

www.sgsgroup.com.cn sgs.china@sgs.com

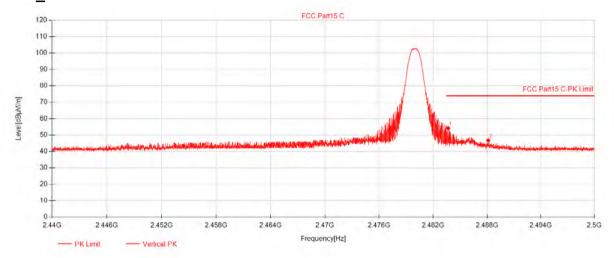


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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2483.6725	50.61	3.60	54.21	74.00	19.79	203	244	Vertical				
2	2483.6725	-	-	30.33	54.00	23.67	-	-	Vertical				
3	2488.1275	43.18	3.63	46.81	74.00	27.19	203	244	Vertical				
4	2488.1275	-	-	22.93	54.00	31.07	-	-	Vertical				



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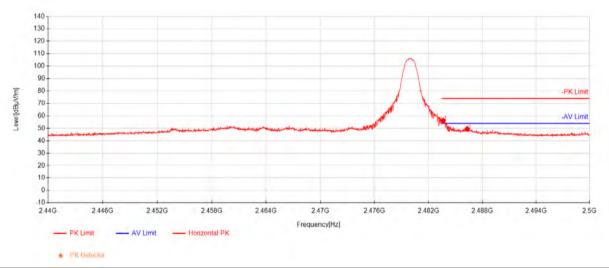
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Test on the worst case:

Restricted bands around fundamental frequency

GFSK_Channel 78



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	2483.6345	52.43	27.87	-23.96	56.34	74.00	17.66	165	141	Horizontal			
2	2483.6345	-	-	-	31.55	54.00	22.45	-	-	Horizontal			
3	2486.3154	45.53	27.87	-23.94	49.46	74.00	24.54	165	141	Horizontal			
4	2486.3154	-	-	-	24.67	54.00	29.33	-	-	Horizontal			



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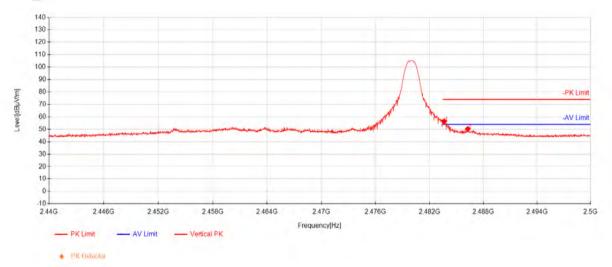


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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.6546	52.54	27.87	-23.96	56.45	74.00	17.55	326	22	Vertical			
2	2483.6546	-	-	-	31.66	54.00	22.34	326	22	Vertical			
3	2486.2754	46.33	27.87	-23.94	50.26	74.00	23.74	326	22	Vertical			
4	2486.2754	-	-	-	25.47	54.00	28.53	326	22	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($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



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