Report No.:
 SEWM2208000146RG05

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TEST REPORT

Application No.:	SEWM2208000146RG
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description:	Smart Phone
Model No.:	SL004T
Trade Mark:	koobee
FCC ID:	2A28USL004T
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2022/08/15
Date of Test:	2022/08/19 to 2022/09/05
Date of Issue:	2022/09/14
Test Result :	PASS *

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

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/09/14		Original

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



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2 Test Summary

SG

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	Reporting only
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 7.8.8.3	Clause 4.12	PASS

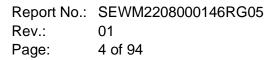


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3 General Information

3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

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:	Tizzy Song, Lves Cheng

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC – Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

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EUT Description:	Smart Phone	Smart Phone		
Model No.:	SL004T	SL004T		
Trade Mark:	koobee			
Hardware Version:	1.0			
Software Version:	SL004TT10004			
	RF Conducted	354795200004635		
IMEI:	RSE & AC power line	354795200005764 354795200005701		
Operation Frequency:	-fc = "Operating Frequence	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V4.2	Bluetooth V4.2		
Modulation Technique:	Frequency Hopping Spre	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPS	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79	79		
Hopping Channel Type:	Adaptive Frequency Hop	Adaptive Frequency Hopping systems		
Antenna Type:	🗌 External, 🖂 Integrate	🗌 External, 🖾 Integrated		
	1.6dBi (Ant2)	1.6dBi (Ant2)		
Antenna Gain:	Note: The antenna gain are der by the manufacturer.	The antenna gain are derived from the gain information report provided		
RF Cable:	1dB	1dB		
Remark:		cant. 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:

S

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

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



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3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(℃)	Voltage(V)	
NTNV	22~23	3.8	
Remark: NV: Normal Voltage NT: Normal Temperature			

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

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

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

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

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 1.6dBi.*

*Note:

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

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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.

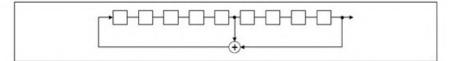
> Number of shift register stages: 9

> 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
	111		



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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

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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 = 30kHz				
Limit:	Limit (dBuV)				
	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 connellingedance Stabilization impedance. The processingle connected to a second plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizon 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 tion Network) which provides ower cables of all other un nd LISN 2, which was bonded way as the LISN 1 for the t strip was used to connect m the rating of the LISN was no as placed upon a non-metall ine. And for floor-standing arr ntal 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 fi d 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 taximum emission, the relative ce cables must be changed a bonded to measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were I to the ground reference unit being measured. A ultiple power cables to a bt exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The b the horizontal ground rom the boundary of the rence plane for LISNs is distance was between II other units of the EUT in the LISN 2. e positions of equipment		



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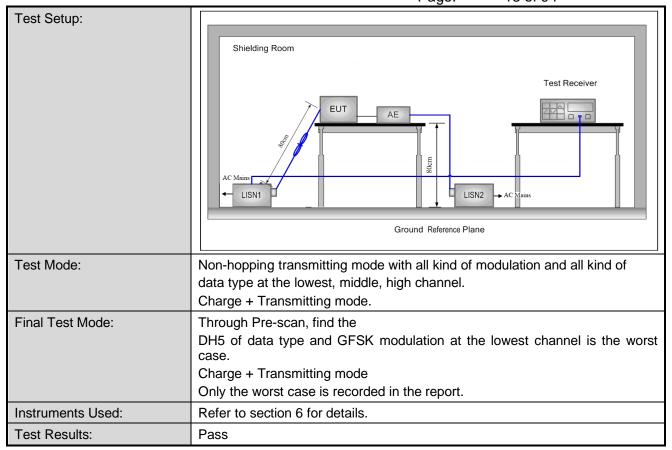
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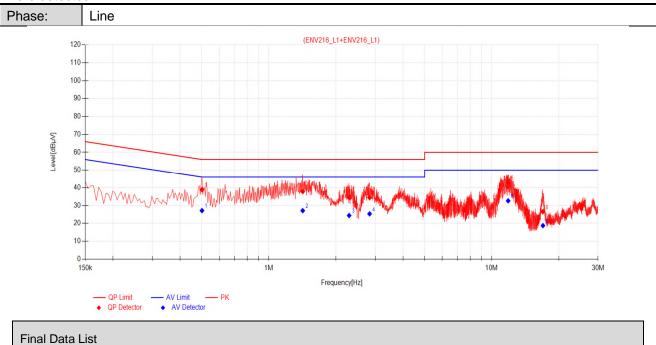
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Measurement Data

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.



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	0.5010	10.62	28.29	38.91	56.00	17.09	16.53	27.15	46.00	18.85	PASS
2	1.4190	10.79	27.04	37.83	56.00	18.17	16.32	27.11	46.00	18.89	PASS
3	2.2920	10.67	23.80	34.47	56.00	21.53	13.73	24.40	46.00	21.60	PASS
4	2.8320	10.67	23.74	34.41	56.00	21.59	14.67	25.34	46.00	20.66	PASS
5	11.8545	10.59	32.23	42.82	60.00	17.18	22.02	32.61	50.00	17.39	PASS
6	16.9800	10.49	16.05	26.54	60.00	33.46	8.24	18.73	50.00	31.27	PASS
Remar	k.										

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

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

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



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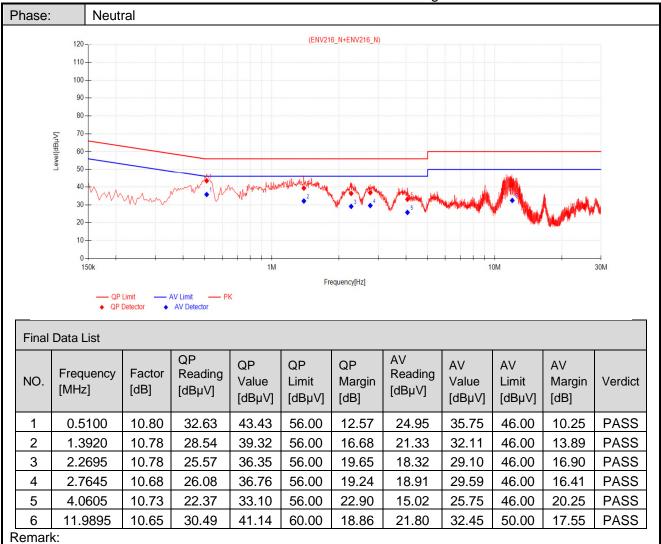
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1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

3. Margin = Limit[dB μ V] – Value[dB μ V]



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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: 0 Power 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: 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

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Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3		
Test Setup:	PC		
Instruments Used:	Refer to section 6 for details		
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.		
Limit:	NA		
Test Results:	Pass		
The detailed test data see: A	ppendix		



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

4.6 Carrier Frequencies Separationy

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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 Spectrum Analyzer O PC 000 Communication Tester trol Unit • 0 0 E.U.T Analog Signal Ge 2 DC Powe 00000 **Ground Reference Plane** Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation Limit: At least 15 channels **Test Results:** Pass The detailed test data see: Appendix

4.7 Hopping Channel Number

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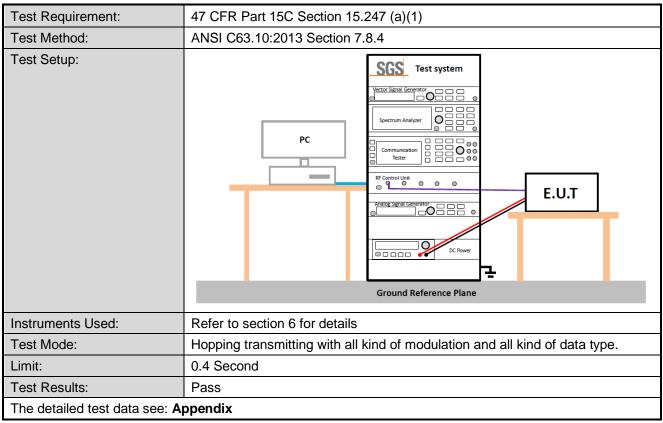
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4.8 Dwell Time



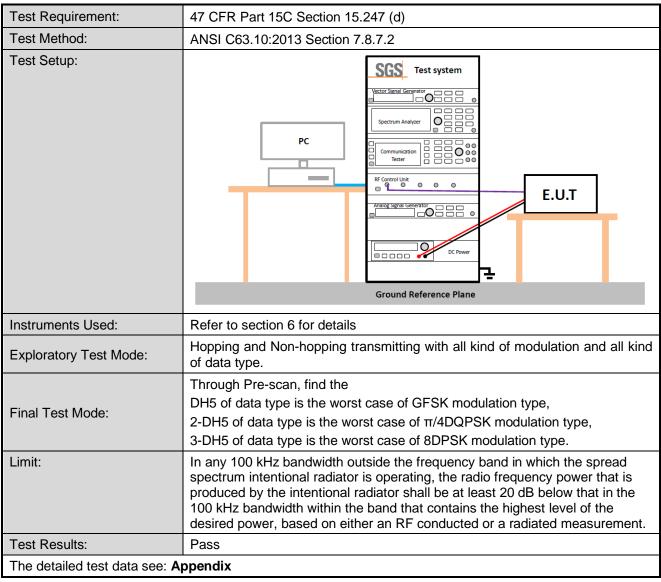


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4.9 Band-edge for RF Conducted Emissions





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Test Requirement: 47 CFR Part 15C Section 15.247 (d) Test Method: ANSI C63.10:2013 Section 7.8.7.1 Test Setup: SGS Test system Vector Signal <u>Gene</u>rat \cap PC munication -RF Control Unit 0 0 0 E.U.T Analog Signal Gen DC Powe 00000 Ground Reference Plane 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. 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. In any 100 kHz bandwidth outside the frequency band in which the spread Limit: 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: Appendix

4.10 Spurious RF Conducted Emissions



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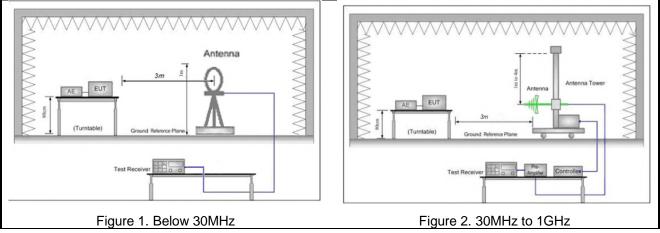
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4.11 Radiated Spurious Emissions

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

Test Setup:

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	Antenna Tower Im or 3m g Hun Aakeas Ground Reference Plane Test Receiver result Test Receiver
	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.
	 Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	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 made _ may held
	 Trace mode = max hold Peak Measurements Above 1000 MHz



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	1 age. 23 01 94
	• RBW = 1 MHz
	 VBW ≥ 3 MHz
	• Detector = Peak
	Sweep time = auto
	 Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
Mode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test dat	a see: Appendix



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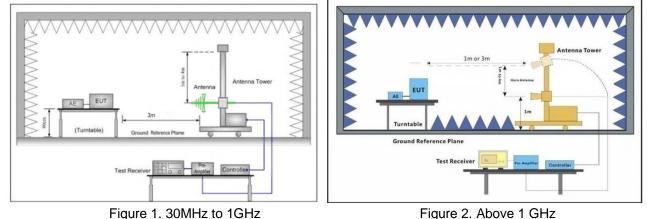
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section 7.8.8.3						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Limit:	Frequency	Frequency Limit (dBuV/m) Remark					
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz 43.5 Quasi-pe						
	216MHz-960MHz 46.0 Quasi-pea						
	960MHz-1GHz 54.0 Quasi-peak						
	Above 1GHz 54.0 Average Value 74.0 Peak Value						

Test Setup:

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Figu	re 1. JUNHZ t	IGHZ Figure 2. Above 1 GHZ
Test Procedure:	above	low 1GHz, the EUT was placed on the top of a rotating table 0.8 meters the ground at a 3 or 10 meter semi-anechoic camber. The table was d 360 degrees to determine the position of the highest radiation.
	meter	bove 1GHz, the EUT was placed on the top of a rotating table 1.5 s above the ground at a 3 meter semi-anechoic camber. The table was d 360 degrees to determine the position of the highest radiation.
		UT was set 3 or 10 meters away from the interference-receiving na, which was mounted on the top of a variable-height antenna tower.
	to de	ntenna height is varied from one meter to four meters above the ground ermine the maximum value of the field strength. Both horizontal and I polarizations of the antenna are set to make the measurement.
	then rotata	ach suspected emission, the EUT was arranged to its worst case and he antenna was tuned to heights from 1 meter to 4 meters and the ble table was turned from 0 degrees to 360 degrees to find the hum reading.
		est-receiver system was set to Peak Detect Function and Specified vidth 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 \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L _{2+N_{N-1}*L_{N-1} + N_N*L_N Where N₁ is number of type 1 pulses, L₁ is length of type 1 pulses, etc.}
Exploratory Test Mode:	Average Value = Peak Value +20*log(Duty cycle). Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix
	••



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
8	Radiated Emission	± 4.80dB (30M -1GHz)
0		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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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

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RF Test Equipment						
Equipment	Manufacturer	Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2021/12/22	2022/12/21	
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14	
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	
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03	
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13	

CE Test System						
Equipment	Manufacturer Model No. Inventory No.		Cal. date (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						
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15	
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18	
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09	
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant2	2402	0.97	2401.52	2402.49	
		2441	0.97	2440.53	2441.49	
		2480	0.98	2479.51	2480.49	
	Ant2	2402	1.29	2401.36	2402.65	
2DH5		2441	1.29	2440.36	2441.65	Reporting
		2480	1.29	2479.36	2480.65	only
3DH5	Ant2	2402	1.29	2401.35	2402.64	
		2441	1.29	2440.35	2441.64	-
		2480	1.29	2479.35	2480.64	



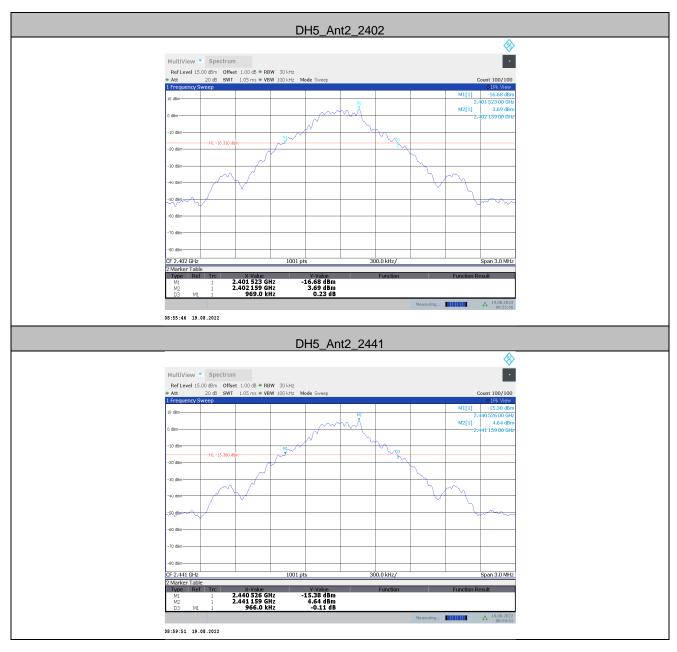
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Test Graphs



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2402	0.9	2401.549	2402.448	
DH5	Ant2	2441	0.899	2440.548	2441.447	
		2480	0.899	2479.547	2480.447	
	Ant2	2402	1.169	2401.409	2402.578	
2DH5		2441	1.167	2440.410	2441.577	Reporting
		2480	1.166	2479.409	2480.575	only
		2402	1.174	2401.411	2402.585	
3DH5	Ant2	2441	1.172	2440.413	2441.585	
		2480	1.172	2479.412	2480.584	



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DH5_Ant2_2402 8 -MultiView Spectrum RefLevel 15.00 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 1.05 ms VBW 100 kHz Mod 50 d F 2.402 GH: 1001 pts 300.0 kHz/ Span 3.0 MHz X-Value 2.402 158 8 GHz Function Result 899,770 203 507 kHz Y-Value 3.71 dBm MJ T1 Occ Bw Occ Bw Centroid 08:55:58 19.08.2022 DH5_Ant2_2441 MultiView Spectrum Ref Level 15.00 dBm Offset 1.00 dB • RBW 30 kHz Att 20 dB SWT 1.05 ms • VBW 100 kHz Mode Count 100/100 M1[1] 4.63 d F 2.441 GH: 300.0 kHz/ 1001 pts Span 3.0 MH X-Value 2.441 158 8 GHz Y-Value 4.63 dBm Function Result 899.391 305 511 kHz Occ Bw Occ Bw Centroid 09:00:03 19.08.2022

Test Graphs



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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	6.88	≤20.97	PASS
DH5	Ant2	2441	7.98	≤20.97	PASS
		2480	6.99	≤20.97	PASS
		2402	5.46	≤20.97	PASS
2DH5	Ant2	2441	6.40	≤20.97	PASS
		2480	5.80	≤20.97	PASS
		2402	5.56	≤20.97	PASS
3DH5	Ant2	2441	6.55	≤20.97	PASS
		2480	5.75	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant2	Нор	0.996	≥0.644	PASS
2DH5	Ant2	Нор	1.002	≥0.860	PASS
3DH5	Ant2	Нор	1	≥0.858	PASS



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DH5_Ant2_Hop • MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode Sv 41 170 00 D2[1] 0 00 d 996.00 kł 2.440 5 GHz 1001 pts 200.0 kHz/ 2.442 5 GHz 12:01:55 19.08.2022 2DH5_Ant2_Hop MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode Sw M1[1] 116400 D2[1] -0.01 1.002 00 M 2.440 5 GH; 1001 pts 200.0 kHz/ 2.442 5 GH 12:23:26 19.08.2022

Test Graphs



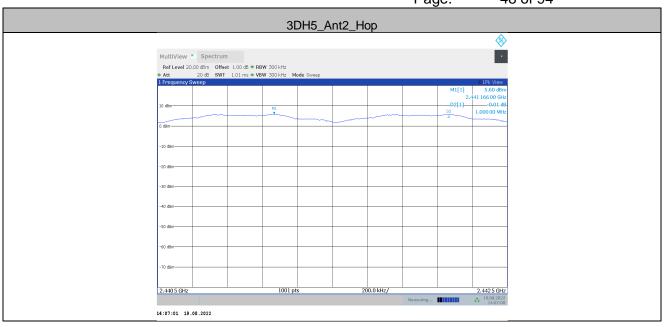
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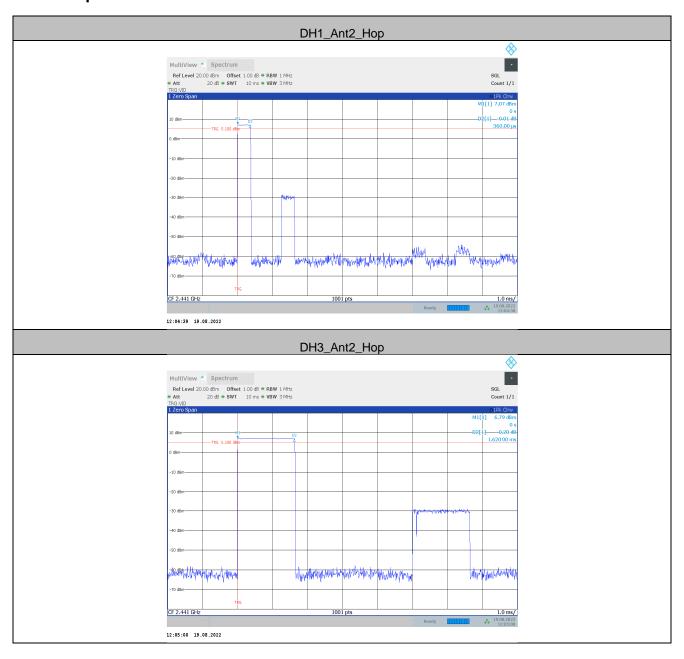
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Time of occupancy Test Graphs





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Report No.: SEWM2208000146RG05 Rev.: 01 50 of 94 Page: DH5_Ant2_Hop \bigotimes MultiView Spectrum •
 Ref Level 20.00 dBm
 Offset 1.00 dB ● RBW 1 MHz

 Att
 20 dB ● SWT
 10 ms ● VBW 3 MHz
 SGL Count 1/1 10.00 µ 6.81 2.870 00 n -TRG 5.100 where the the transforment the shaft -www.loful Anny the the test per la presentation CF 2.441 GH; 1001 pts 1.0 ms, 12:03:53 19.08.2022 2DH1_Ant2_Hop \otimes MultiView Spectrum • SGL Count 1/1
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

 Att
 20 dB
 SWT
 10 ms
 VBW 3 MHz
 1]---0.33-0 370.00 µ -TRG 3.700 de Manp under California den ander a protocycling and a protocycling white the path much have und White VI WWW "AMAMANA" CF 2.441 GH; 1001 pts 1.0 ms/ 12:28:36 19.08.2022



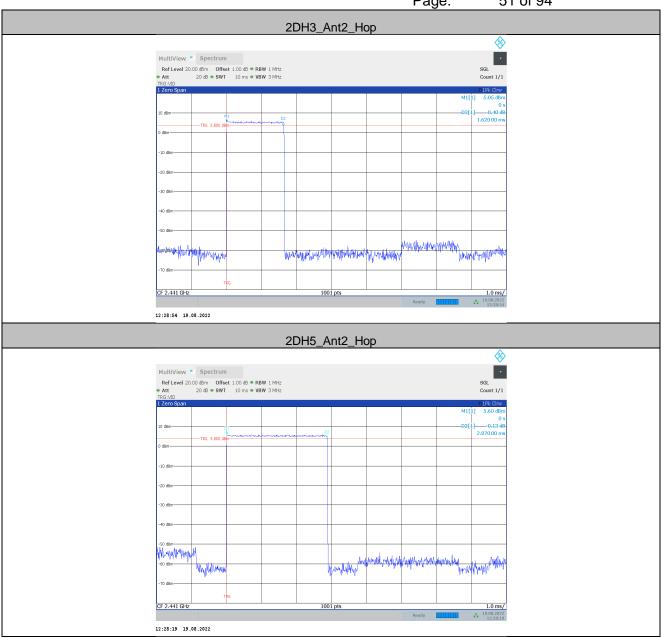
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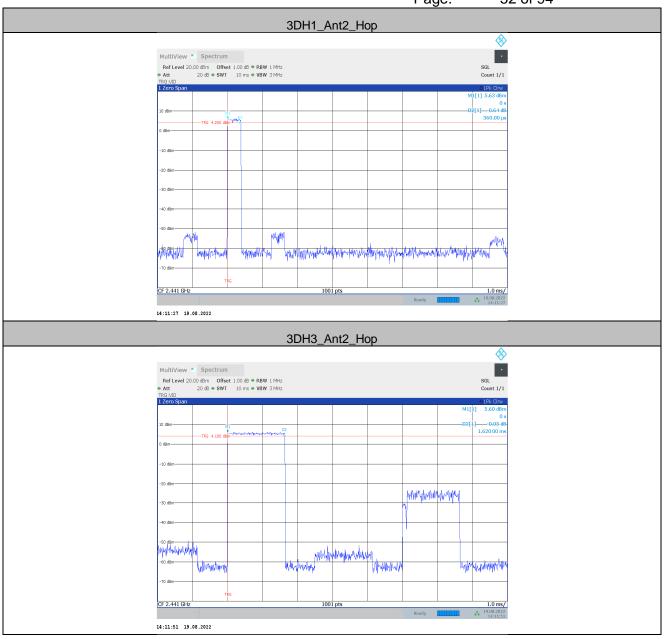
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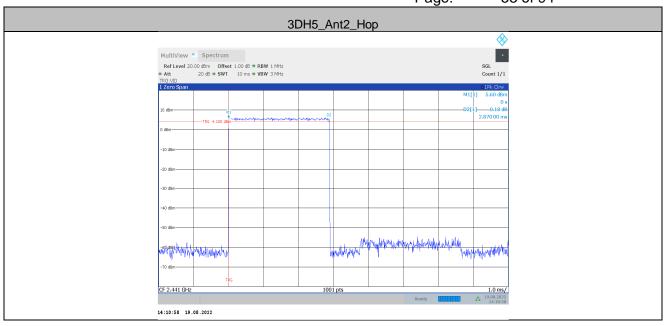
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Number of hopping channels Test Result

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_Ant2_Hop -MultiView Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode MMM 1001 pts 2.4 GHz 8.35 MHz/ 2.483 5 GHz 11:59:30 19.08.2022 2DH5_Ant2_Hop \otimes MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB @ RBW 300 kHz Att 20 dB SWT 1.01 ms @ VBW 300 kHz Mode Swee mm mm 2.4 GHz 1001 pts 8.35 MHz/ 2.483 5 GH 12:28:06 19.08.2022

Test Graphs



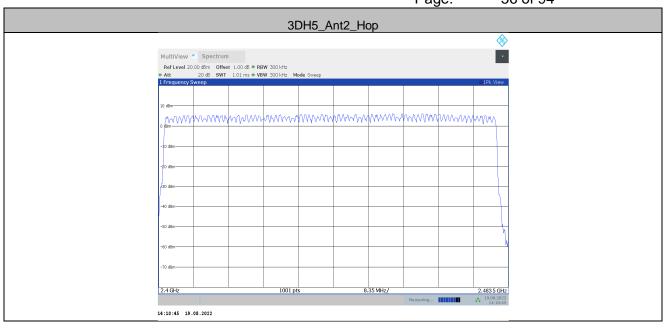
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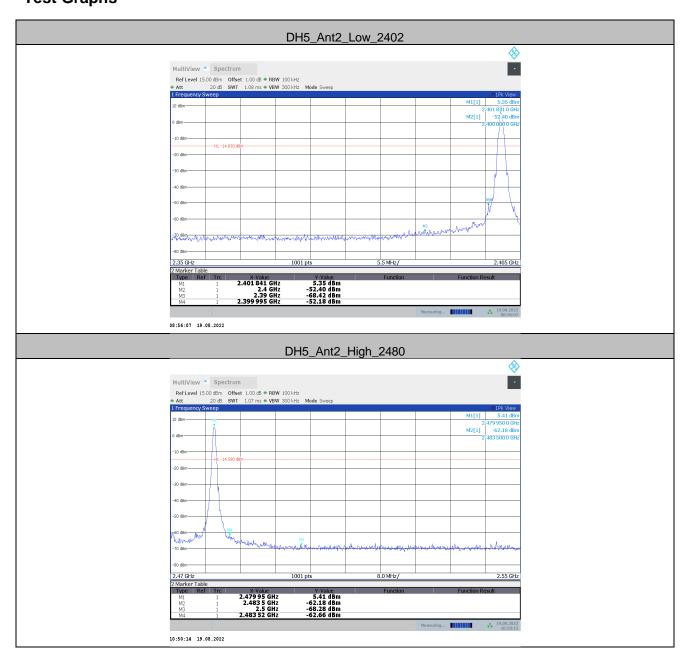
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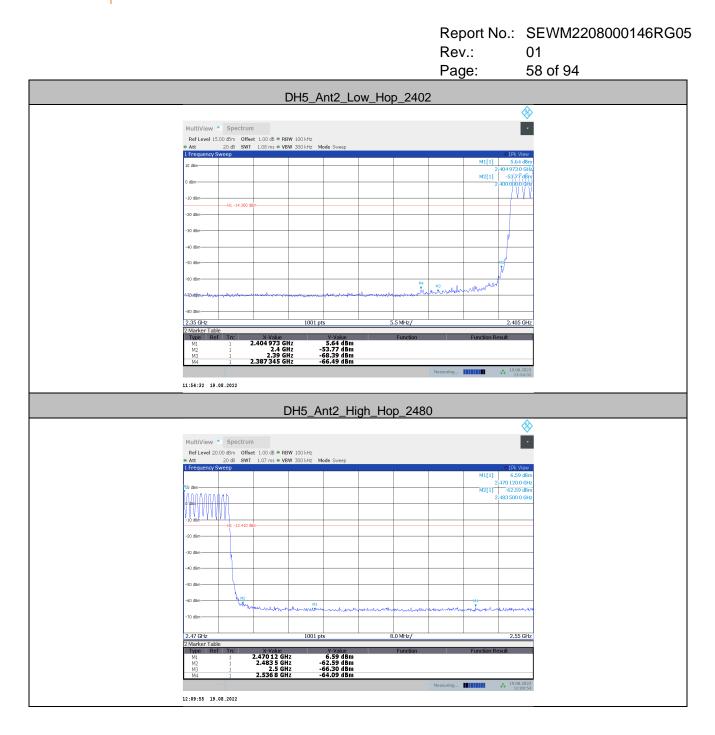
Band edge measurements Test Graphs





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Report No.: SEWM2208000146RG05 Rev.: 01 59 of 94 Page: 2DH5_Ant2_Low_2402 \bigotimes MultiView Spectrum •
 Ref Level
 15.00 dB
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 1.08 ms
 VBW
 300 kHz
 M1[1] M2[1] -H1 -15.67 70 dBm ment 2.35 GHz 1001 pts 5.5 MHz, 2.405 GHz X-Value 2.402 115 GHz 2.4 GHz 2.39 GHz 2.399 995 GHz 4.33 dBm -52.38 dBm -68.25 dBm -50.80 dBm M1 M2 M3 M4 11:10:48 19.08.2022 2DH5_Ant2_High_2480 \otimes MultiView Spectrum
 Ref Level 15.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 20 dB
 SWT
 1.07 ms • VBW 300 kHz
 Mode Swe
 62.17 d M2[1] Arman 70 dBn 2.47 GHz 1001 pts 8.0 MHz/ 2.55 GHz X-Value 2.479 95 GHz 2.483 5 GHz 2.5 GHz 2.483 76 GHz 2.39 dBm -62.17 dBm -69.07 dBm -62.96 dBm 11:15:32 19.08.2022



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Report No.: SEWM2208000146RG05 Rev.: 01 61 of 94 Page: 3DH5_Ant2_Low_2402 \bigotimes MultiView Spectrum •
 Ref Level
 15.00 dB
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 1.08 ms
 VBW
 300 kHz
 M1[1] M2[1] -H1 -16.140 M Wown -70 dBm-MAG he Me ke b 2.35 GHz 1001 pt 5.5 MHz/ 2.405 GHz X-Value 2.402 115 GHz 2.4 GHz 2.39 GHz 2.399 555 GHz 3.86 dBm -54.98 dBm -69.42 dBm -54.05 dBm M1 M2 M3 M4 11:20:02 19.08.2022 3DH5_Ant2_High_2480 \otimes MultiView Spectrum
 Ref Level
 15.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 1.07 ms
 VBW
 300 kHz
 Mode Swa -64.19 d M2[1] -15.54 N W. www 70 di 2.47 GHz 1001 pts 8.0 MHz/ 2.55 GHz X-Value 2.480 11 GHz 2.483 5 GHz 2.5 GHz 2.483 68 GHz 4.46 dBm -64.19 dBm -69.52 dBm -62.30 dBm 11:46:39 19.08.2022



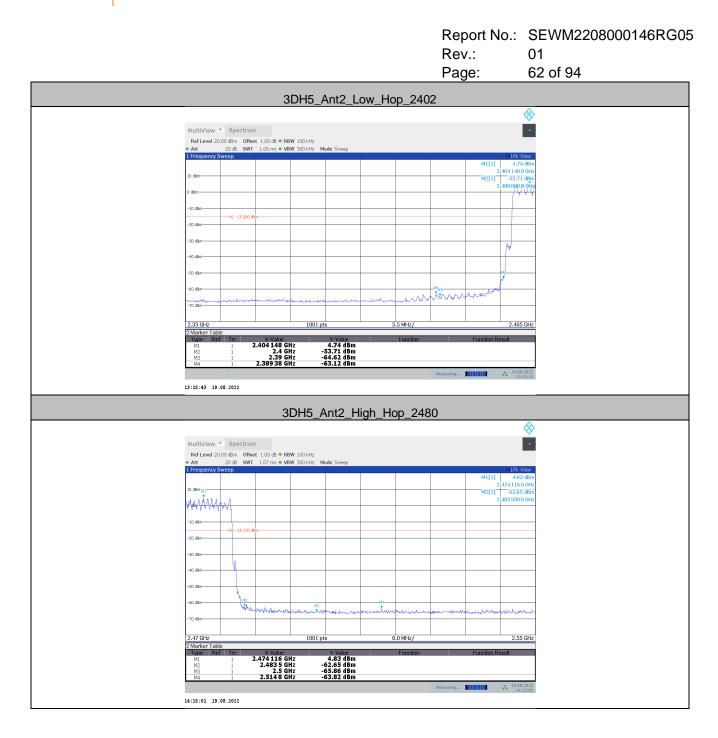
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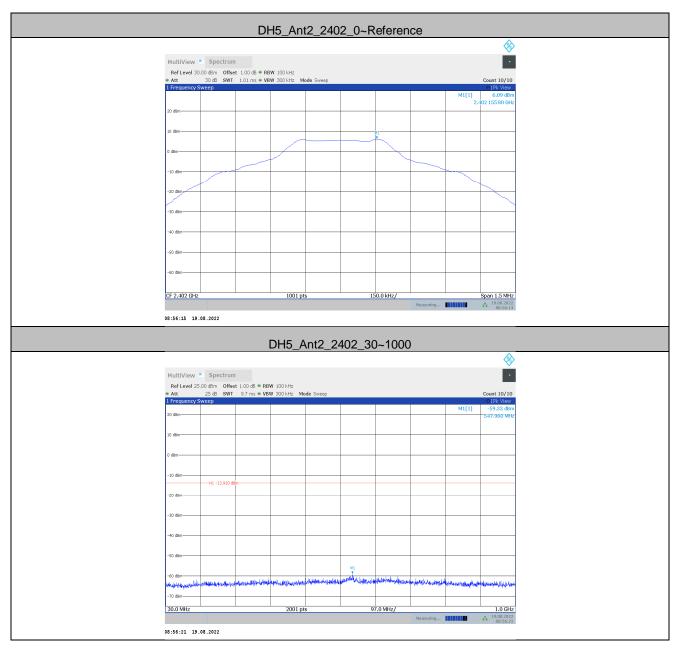


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Conducted Spurious Emission Test Graphs





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 Ref Level 25.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms • VBW 300 kHz
 nt 10/10 M1[1] M2[1] 093 5 10 G H1 -13.91 1.0 GHz 52001 pts 2.55 GHz/ 26.5 GH 08:56:42 19.08.2022 DH5_Ant2_2441_0~Reference \otimes MultiView Spectrum
 Ref Level 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.01 ms
 VBW
 300 kHz
 Mode Swe
 10/10 41 15 1001 pts 150.0 kHz/ CF 2.441 GH; Span 1.5 MHz 09:00:11 19.08.2022



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Report No.: SEWM2208000146RG05 Rev.: 01 65 of 94 Page: DH5_Ant2_2441_30~1000 \bigotimes MultiView Spectrum •
 Ref Level 25.00 dBm
 Offset 1.00 dB
 RBW 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW 300 kHz
 nt 10/10 M1[1] ut -12 at الناسين introduction for the second 70 dB 30.0 MHz 2001 pts 97.0 MHz/ 1.0 GH: 09:00:17 19.08.2022 DH5_Ant2_2441_1000~26500 \otimes MultiView Spectrum •
 Ref Level 25.00 dBm
 Offset 1.00 dB
 RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms
 VBW 300 kHz
 Mode Sw
 t 10/10 M2[1] -54.99 d -H1 -12.98



1.0 GHz

09:00:38 19.08.2022

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55 GHz/

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52001 pts

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26.5 GHz

Report No.: SEWM2208000146RG05 Rev.: 01 66 of 94 Page: DH5_Ant2_2480_0~Reference \bigotimes MultiView Spectrum •
 Ref Level 30.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 1.01 ms • VBW 300 kHz
 nt 10/10 6.04 dt 0 155 P² M1[1] CF 2.48 GHz 1001 pts 150.0 kHz/ Span 1.5 MH 10:52:38 19.08.2022 DH5_Ant2_2480_30~1000 \otimes MultiView Spectrum •
 Ref Level 25.00 dBm
 Offset 1.00 dB
 RBW 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW 300 kHz
 Mode Sw
 10/10 -H1 -13.96 the house 1.0 GHz 2001 pts 97.0 MHz/ 30.0 MHz 10:52:44 19.08.2022



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 Ref Level 25.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms • VBW 300 kHz
 nt 10/10 M1[1] M2[1] 54.51 di .613 808 G H1 -13.96 1.0 GHz 52001 pts 2.55 GHz/ 26.5 GH 10:53:08 19.08.2022 2DH5_Ant2_2402_0~Reference \otimes MultiView Spectrum
 Ref Level 30.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 1.01 ms • VBW 300 kHz
 Mode Swe
 10/10 1001 pts 150.0 kHz/ CF 2.402 GH; Span 1.5 MHz 11:10:55 19.08.2022



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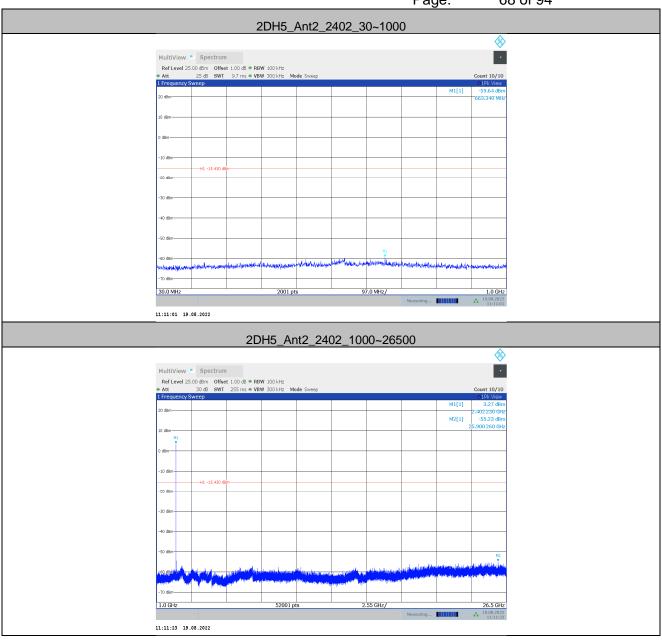
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 Ref Level 30.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 1.01 ms • VBW 300 kHz
 nt 10/10 M1[1] CF 2.441 GH; 1001 pts 150.0 kHz/ Span 1.5 MH 11:14:10 19.08.2022 2DH5_Ant2_2441_30~1000 \otimes MultiView Spectrum •
 Ref Level 25:00 dBm
 Offset 1:00 dB ● RBW 100 kHz

 Att
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 10/10 -H1 -14.58 and a had a had been at hundrachi والمراجة العا بالالتحليا والمعارفة المعروفة بالا 2001 pts 97.0 MHz/ 1.0 GHz 30.0 MHz 11:14:17 19.08.2022



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Report No.: SEWM2208000146RG05 Rev.: 01 70 of 94 Page: 2DH5_Ant2_2441_1000~26500 \bigotimes MultiView Spectrum •
 Ref Level 25.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms • VBW 300 kHz
 nt 10/10 M1[1] M2[1] 80 269 -H1 -14.58 1.0 GHz 52001 pts 2.55 GHz/ 26.5 GH 11:14:38 19.08.2022 2DH5_Ant2_2480_0~Reference \otimes MultiView Spectrum
 Ref Level 30.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
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 1.01 ms • VBW 300 kHz
 Mode Swe
 10/10 1001 pts 150.0 kHz/ CF 2.48 GHz Span 1.5 MHz 11:18:26 19.08.2022



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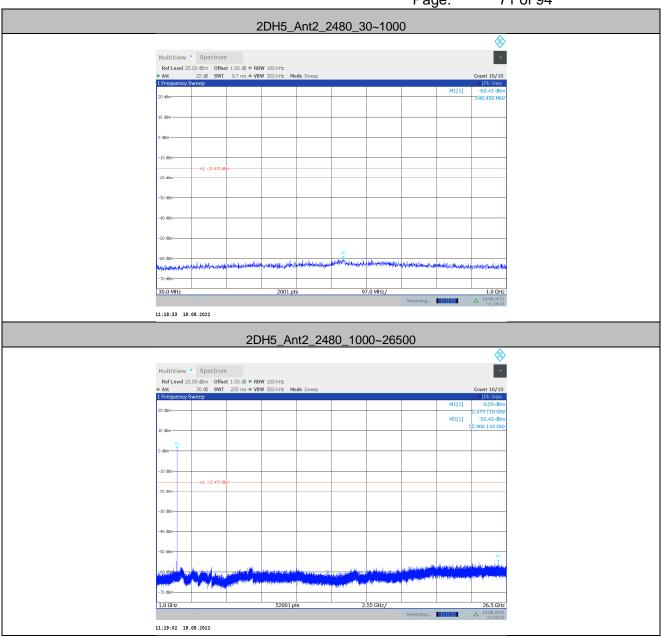
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			3DH5_An	t2_2402_0~l	Reference		
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MultiView Spectrum Count 10/10 Ref Level 30:0 dfm 0 dfm	1:	1:20:09 19.08.2022			industria industria	11	20:09
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Report No.: SEWM2208000146RG05 Rev.: 01 73 of 94 Page: 3DH5_Ant2_2402_1000~26500 \bigotimes MultiView Spectrum •
 Ref Level 25.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 255 ms • VBW 300 kHz
 nt 10/10 M1[1] 01740 G -55.11 d M2[1] 967 865 G -H1 -15.42 20.4 1000 1.0 GHz 52001 pts .55 GHz/ 26.5 GH 11:23:39 19.08.2022 3DH5_Ant2_2441_0~Reference \otimes MultiView Spectrum
 Ref Level 30.00 dBm
 Offset 1.00 dB • RBW 100 kHz

 Att
 30 dB
 SWT
 1.01 ms • VBW 300 kHz
 Mode Swe
 10/10 41[1] 41 15 1001 pts 150.0 kHz/ CF 2.441 GH; Span 1.5 MHz 11:40:16 19.08.2022



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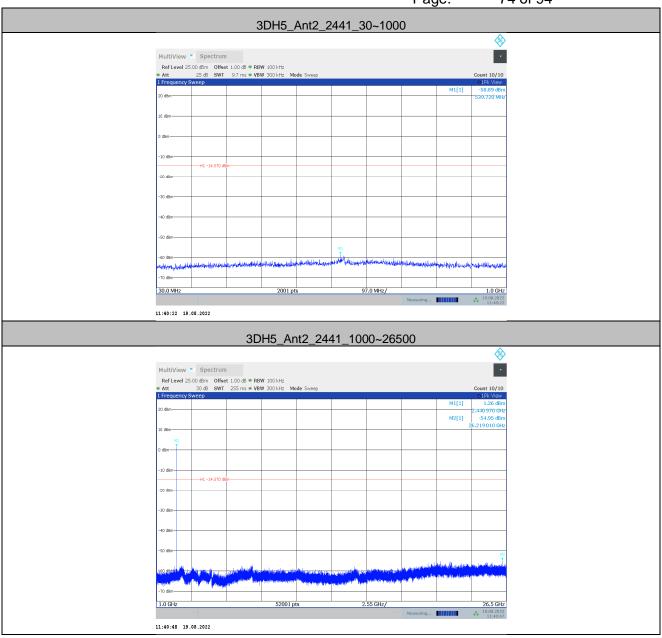
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		3DH5_An	nt2_2480	0_0~Refe	erence		
				_			<
	ultiView Spectrum						•
• /	RefLevel 30.00 dBm Offset 1 Att 30 dB SWT 1 Frequency Sweep	.00 dB • RBW 100 kHz 01 ms • VBW 300 kHz M	ode Sweep			Count :	
						M1[1] 4.5 2.480 1573	2 dBm 80 GHz
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-10	0 d8m						
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-60	0 dBm						
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	~					19.0 1	6.2022 1:46:46
11:	46:46 19.08.2022						
		3DH5_/	Ant2_24	80_30~1	000		
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• /		1.7 ms • VBW 300 kHz Mc	ode Sweep			Count : 01Pk	0/10 View
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-20	0 dBm						
-30	0 d8m						—
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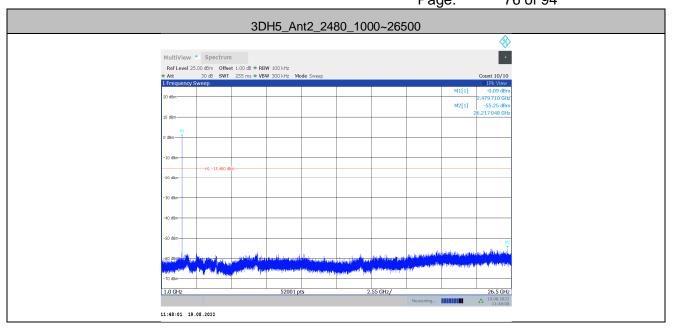
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.88	3.75	76.80	1.15
DH5	Ant2	2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
		2402	2.89	3.75	77.07	1.13
2DH5	Ant2	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.75	77.07	1.13
3DH5	Ant2	2441	2.89	3.75	77.07	1.13
		2480	2.89	3.76	76.86	1.14



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DH5_Ant2_2402 MultiView Spectrum • Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz SGL Count 1/1 Att halpphap Westlyllow 2.402 GH: 1001 pts 1.0 ms/ X-Value 3.76 ms 2.88 ms 3.75 ms Y-Value 6.17 dBm -0.01 dB -0.00 dB D1 M1 M1 08:55:32 19.08.2022 DH5_Ant2_2441 MultiView Spectrum • Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz SGL Count 1/1 Att 7.16 d 3.750 00 -0.03 c Walnymbili manimantal 2.441 GH 1001 pts 1.0 ms/ 7.16 dBm -0.03 dB -0.16 dB 3.75 ms 2.88 ms 3.75 ms M1 08:59:37 19.08.2022

Test Graphs



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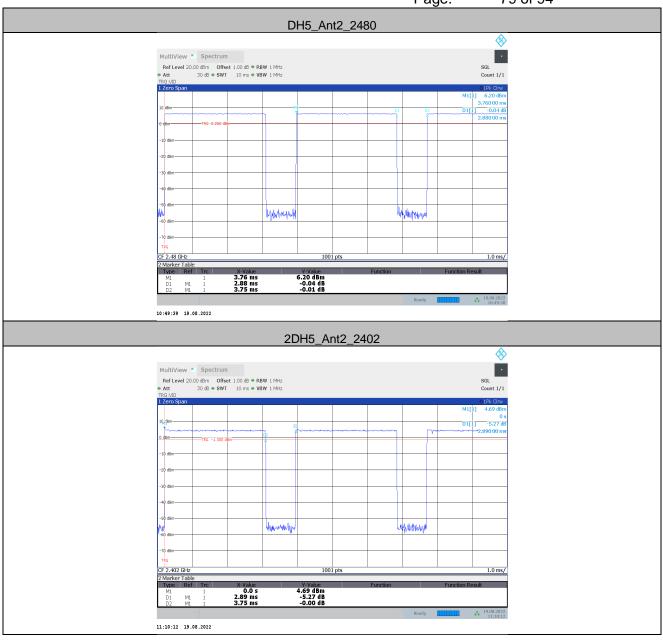
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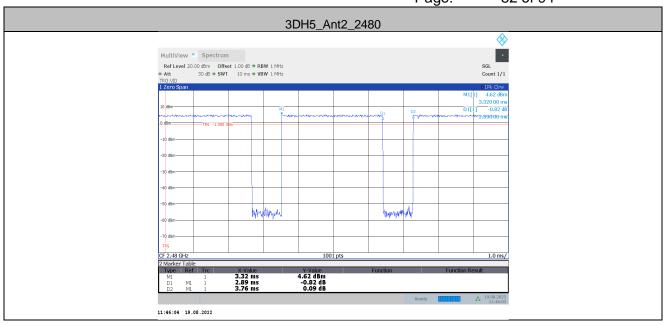
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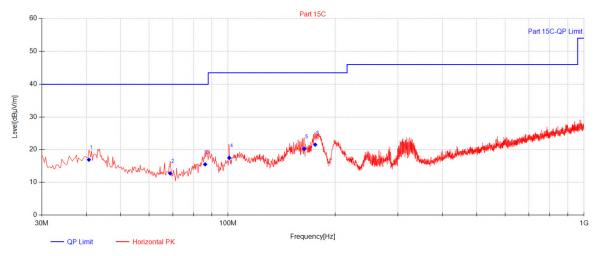
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Radiated Spurious Emissions

S

Radiated emission below 1GHz

Worst case Mode: GFSK _ Channel 00



Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV /m]	QP Limit [dBµV/m]	QP Margin [dB]	Heigh t [cm]	Angl e [ٵ	Polarity
1	40.67	39.13	-36.26	14.01	16.88	40.00	23.12	185	126	Horizontal
2	68.8	38.16	-36.51	11.05	12.71	40.00	27.29	162	270	Horizontal
3	86.26	42.22	-36.13	9.38	15.47	40.00	24.53	132	292	Horizontal
4	100.81	43.01	-35.79	10.23	17.45	43.50	26.05	142	62	Horizontal
5	163.6175	41.23	-35.25	14.24	20.21	43.50	23.29	196	334	Horizontal
6	175.7425	42.11	-35.19	14.57	21.48	43.50	22.02	142	342	Horizontal



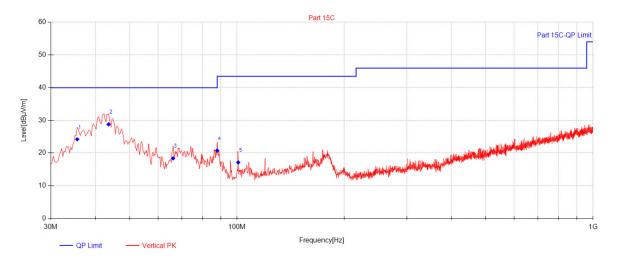
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Final	Final Data List												
NO.	Frequenc y [MHz]	Readin g [dBµV]	Factor [dB]	AF [dB/ m]	QP Value [dBµV/ m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle []	Polarity			
1	35.5775	47.13	-36.46	13.47	24.14	40.00	15.86	162	225	Vertical			
2	43.58	51.29	-36.22	13.77	28.84	40.00	11.16	184	206	Vertical			
3	66.1325	43.23	-36.47	11.57	18.32	40.00	21.68	230	0	Vertical			
4	87.9575	47.55	-36.27	9.41	20.69	40.00	19.31	122	37	Vertical			
5	100.81	42.66	-35.79	10.23	17.10	43.50	26.40	145	3	Vertical			
6	163.6175	38.02	-35.25	14.24	N/A	43.50	N/A	175	53	Vertical			

Remark:

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

Value = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m) Factor = Cable Factor(dB) - Preamplifier gain(dB)

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

dB μ V=dbm+95.26

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



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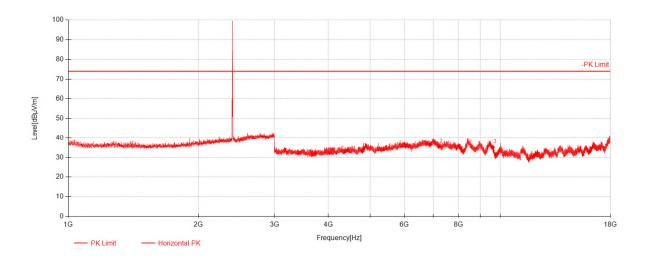
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Transmitter emission Above 1GHz GFSK Channel 00



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [¹]	Polarity		
1	4804.0000	46.46	32.33	-45.54	33.25	74.00	40.75	213	3	Horizontal		
2	4804.0000	-	-	-	8.46	54.00	45.54	-	-	Horizontal		
3	7206.0000	42.33	36.60	-43.44	35.49	74.00	38.51	261	359	Horizontal		
4	7206.0000	-	-	-	10.70	54.00	43.30	-	-	Horizontal		
5	9608.0000	36.47	38.43	-39.65	35.25	74.00	38.75	145	34	Horizontal		
6	9608.0000	-	-	-	10.46	54.00	43.54	-	-	Horizontal		



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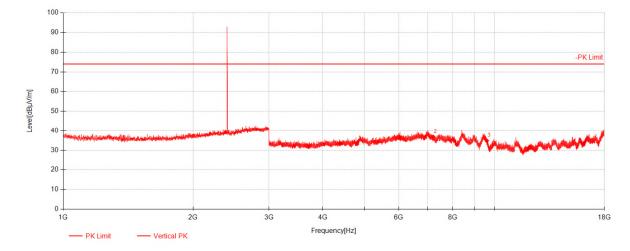
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/ m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [ٵ	Polarity			
1	4804.0000	46.35	32.33	-45.54	33.14	74.00	40.86	237	307	Vertical			
2	4804.0000	-	-	-	8.35	54.00	45.65	-	-	Vertical			
3	7206.0000	43.55	36.60	-43.44	36.71	74.00	37.29	199	36	Vertical			
4	7206.0000	-	-	-	11.92	54.00	42.08	-	-	Vertical			
5	9608.0000	35.97	38.43	-39.65	34.75	74.00	39.25	146	36	Vertical			
6	9608.0000	-	-	-	9.96	54.00	44.04	-	-	Vertical			



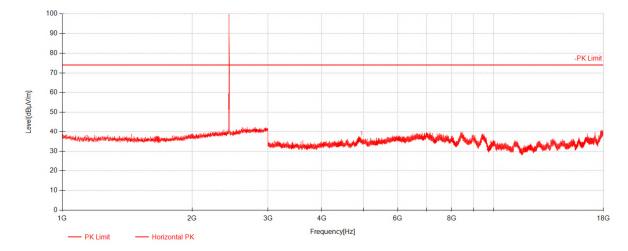
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Fina	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/ m]	Limit [dBµV/m]	Margin [dB]	Heigh t [cm]	Angl e [¹]	Polarity			
1	4882.0000	49.08	32.55	-45.53	36.10	74.00	37.90	236	3	Horizontal			
2	4882.0000	-	-	-	11.31	54.00	42.69	-	-	Horizontal			
3	7323.0000	42.04	36.53	-43.67	34.90	74.00	39.10	125	128	Horizontal			
4	7323.0000	-	-	-	10.11	54.00	43.89	-	-	Horizontal			
5	9764.0000	32.04	38.26	-39.47	30.83	74.00	43.17	145	4	Horizontal			
6	9764.0000	-	-	-	6.04	54.00	47.96	-	-	Horizontal			



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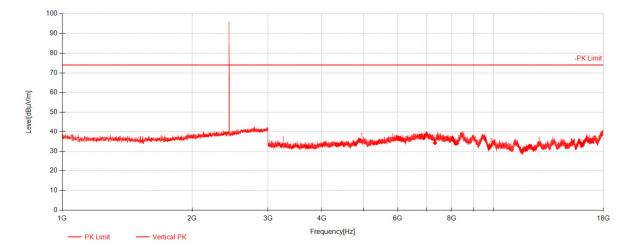
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Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV /m]	Limit [dBµV/m]	Margin [dB]	Heigh t [cm]	Angl e [¹]	Polarity		
1	4882.0000	48.29	32.55	-45.53	35.31	74.00	38.69	178	53	Vertical		
2	4882.0000	-	-	-	10.52	54.00	43.48	-	-	Vertical		
3	7323.0000	41.29	36.53	-43.67	34.15	74.00	39.85	251	55	Vertical		
4	7323.0000	-	-	-	9.36	54.00	44.64	-	-	Vertical		
5	9764.0000	33.64	38.26	-39.47	32.43	74.00	41.57	145	360	Vertical		
6	9764.0000	-	-	-	7.64	54.00	46.36	-	-	Vertical		



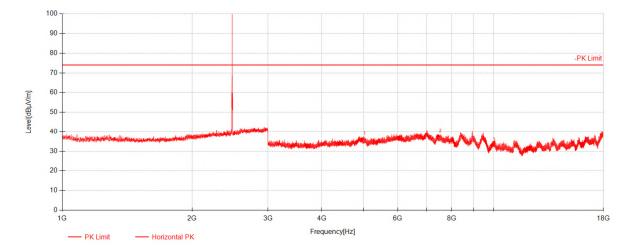
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1	4960.0000	48.87	32.77	-45.60	36.04	74.00	37.96	214	360	Horizontal		
2	4960.0000	-	-	-	11.25	54.00	42.75	-	-	Horizontal		
3	7440.0000	44.41	36.47	-43.30	37.58	74.00	36.42	175	291	Horizontal		
4	7440.0000	-	-	-	12.79	54.00	41.21	-	-	Horizontal		
5	9920.0000	33.90	38.38	-39.31	32.97	74.00	41.03	146	237	Horizontal		
6	9920.0000	-	-	-	8.18	54.00	45.82	-	-	Horizontal		



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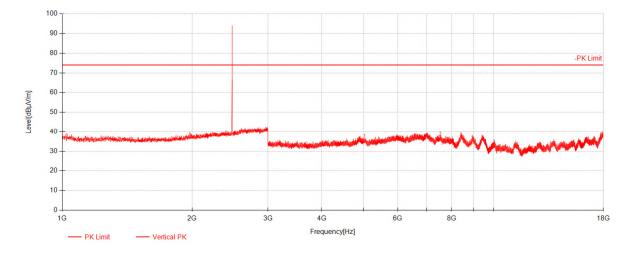
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Final	Final Data List												
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1	4960.0000	47.45	32.77	-45.60	34.62	74.00	39.38	218	54	Vertical			
2	4960.0000	-	-	-	9.83	54.00	44.17	-	-	Vertical			
3	7440.0000	42.72	36.47	-43.30	35.89	74.00	38.11	194	308	Vertical			
4	7440.0000	-	-	-	11.10	54.00	42.90	-	-	Vertical			
5	9920.0000	32.78	38.38	-39.31	31.85	74.00	42.15	175	126	Vertical			
6	9920.0000	-	-	-	7.06	54.00	46.94	-	-	Vertical			

Remark:

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

Level = Reading(dB μ V) + AF(dB/m) + Factor(dB): AF = Antenna Factor(dB/m) Factor = Cable Factor(dB) - Preamplifier gain(dB) Margin = Limit(dB μ V/m) - Level(dB μ V/m) dB μ V=dbm+95.26

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



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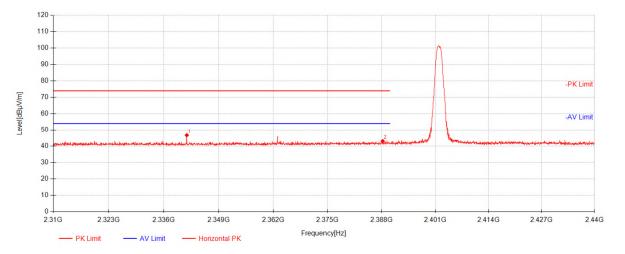
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Restricted bands around fundamental frequency





Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/ m]	Limit [dBµV/m]	Margin [dB]	Heigh t [cm]	Angl e [¶	Polarity
1	2341.4167	42.84	27.41	-23.58	46.67	74.00	27.33	163	212	Horizontal
2	2341.4167	-	-	-	21.88	54.00	32.12	-	-	Horizontal
3	2388.3033	39.19	27.43	-23.57	43.05	74.00	30.95	163	212	Horizontal
4	2388.3033	-	-	-	18.26	54.00	35.74	-	-	Horizontal



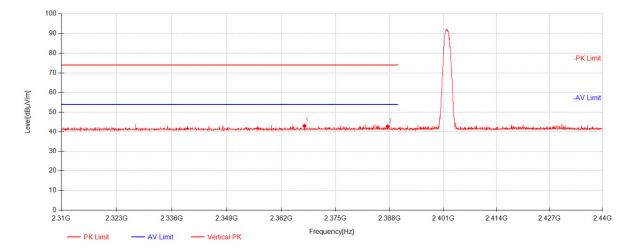
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1	2367.5467	39.24	27.42	-23.57	43.09	74.00	30.91	211	4	Vertical
2	2367.5467	-	-	-	18.30	54.00	35.70	-	-	Vertical
3	2387.5667	38.96	27.43	-23.57	42.82	74.00	31.18	211	4	Vertical
4	2387.5667	-	-	-	18.03	54.00	35.97	-	-	Vertical



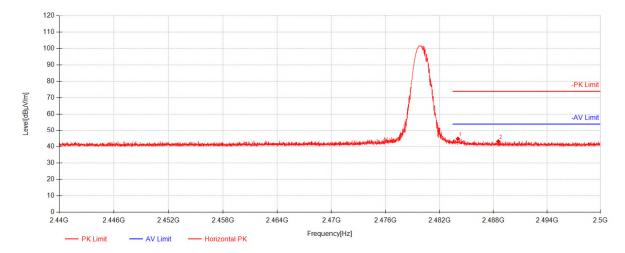
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1	2484.0625	40.55	27.72	-23.54	44.72	74.00	29.28	111	271	Horizontal	
2	2484.0625	-	-	-	19.93	54.00	34.07	-	-	Horizontal	
3	2488.57	38.99	27.73	-23.54	43.18	74.00	30.82	111	271	Horizontal	
4	2488.57	-	-	-	18.39	54.00	35.61	-	-	Horizontal	



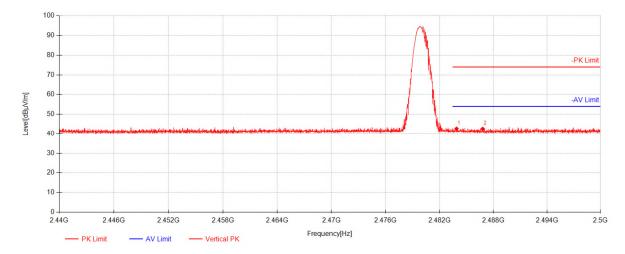
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1	2483.905	38.54	27.72	-23.54	42.71	74.00	31.29	155	20	Vertical	
2	2483.905	-	-	-	17.92	54.00	36.08	-	-	Vertical	
3	2486.8225	38.44	27.73	-23.54	42.62	74.00	31.38	155	20	Vertical	
4	2486.8225	-	-	-	17.83	54.00	36.17	-	-	Vertical	

Remark:

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

Level = Reading(dB μ V) + AF(dB/m) + Factor(dB): AF = Antenna Factor(dB/m) Factor = Cable Factor(dB) - Preamplifier gain(dB) Margin = Limit(dB μ V/m) - Level(dB μ V/m) dB μ V=dbm+95.26

---End of Report---

