

<b>FCC TEST REPORT</b>	
<b>Co-Location</b>	
<b>Report Reference No</b>	G0M-2403-2482-TFCCOLOC-V02
<b>Testing Laboratory</b>	Eurofins Product Service GmbH
<b>Address</b>	Storkower Str. 38c 15526 Reichenwalde Germany
<b>Accreditation</b>	  DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
<b>Applicant</b>	Atlas Copco Airpower N.V.
<b>Address</b>	Boomsesteenweg 957 2610 Antwerpen, Wilrijk Belgien
<b>Test Specification</b>	47 CFR Part 24E
<b>Non-Standard Test Method</b>	None
<b>Equipment under Test (EUT):</b>	
<b>Product Description</b>	Machine mounted device, wireless interface for compressor machines
<b>Model(s)</b>	SBP
<b>Additional Model(s)</b>	None
<b>Brand Name(s)</b>	None
<b>Hardware Version(s)</b>	NVG_04
<b>Software Version(s)</b>	navigator_2024.04.08.1_rnd
<b>FCC ID</b>	UXQGWSBPA
<b>Test Result</b>	<b>PASSED</b>

<b>Possible test case verdicts:</b>		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
<b>Testing:</b>		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2024-04-15	
<b>Report:</b>		
Compiled by	Md Abu Bakar Siddique	
Tested by (+ signature) (Responsible for Test)	Md Abu Bakar Siddique	
Approved by (+ signature) (Test Lab Engineer)	Florian Voigt	
Date of Issue	2025-04-04	
Total number of pages	42	
<b>General Remarks:</b>		
<p><b>The test results presented in this report relate only to the object tested.</b></p> <p><b>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</b></p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
<b>Additional Comments:</b>		
None		

**VERSION HISTORY**

Version History			
Version	Issue Date	Remarks	Revised By
01	2024-07-04	Initial Release	--
02	2025-04-04	Replaced document: G0M-2403-2482-TFCCOLOC-V01 Replaced by: G0M-2403-2482-TFCCOLOC-V02  Reason: <ul style="list-style-type: none"> <li>• Change of the Manufacturer</li> </ul>	E. Sohrabi

**ABBREVIATIONS AND ACRONYMS**

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V <sub>NOM</sub>	Nominal supply voltage

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## 1 Equipment (Test Item) Under Test

Description	Machine mounted device, wireless interface for compressor machines		
Model	SBP		
Additional Model(s)	None		
Brand Name(s)	None		
Sample Identification	EUT #	Sample-ID	Serial Number
	EUT 1	48226	NVGPCBA1841760017
Hardware Version(s)	NVG_04		
Software Version(s)	navigator_2024.04.08.1_rnd		
FCC ID	UXQGWSBPA		
Equipment type	End Product		
Radio type	Transceiver		
Assigned frequency bands	GSM 850 : UL = 824 - 849 MHz, DL = 869 - 894 MHz GSM 1900 : UL = 1850 - 1910 MHz, DL = 1930 - 1990 MHz LTE FDD2 : UL = 1850 - 1910 MHz, DL = 1930 - 1990 MHz LTE FDD4 : UL = 1710 - 1755 MHz, DL = 2110 - 2155 MHz LTE FDD5 : UL = 824 - 849 MHz, DL = 869 - 894 MHz LTE TDD41 : UL + DL = 2496 - 2690 MHz LTE FDD7 : UL = 2500 - 2570 MHz, DL = 2620 - 2690 MHz LTE FDD12 : UL = 699 - 716 MHz, DL = 729 - 746 MHz LTE FDD13 : UL = 777 - 787 MHz, DL = 746 - 756 MHz LTE FDD25 : UL = 1850 - 1915 MHz, DL = 1930 - 1995 MHz LTE FDD26 : UL = 814 - 849 MHz, DL = 859 - 894 MHz LTE FDD66 : UL = 1710 - 1780 MHz, DL = 2110 - 2200 MHz Bluetooth : 2400.0 MHz - 2483.5 MHz WiFi : 2400.0 MHz - 2483.5 MHz SRD 915 MHz: 902 - 928 MHz		
Radio technologies	GSM + LTE + WiFi 2.4 GHz + Bluetooth + SRD 915 MHz		
Multislot class	12		
Number of modules	2		
Radio Module 1	Type	LTE, GSM radio module	
	Model	EG21-GL	
	Manufacturer	Quectel	
	HW Version	EG21GLGA-128-SGNS	
	SW Version	EG21GLGAR07A03M1G	
	FCC ID	XMR202212EG21GL	
Antenna 1 (Radio Module 1)	Type	Integrated antenna	
	Model	Flex	
	Manufacturer	Suntak	
	Gain	2.25 dBi (customer declaration)	
Antenna 2 (Radio Module 1)	Type	Integrated antenna	
	Model	Flex	
	Manufacturer	Suntak	
	Gain	2.6 dBi (customer declaration)	
Radio Module 2	Type	Bluetooth and WiFi radio module	
	Model	FC909A	
	Manufacturer	Quectel	
	HW Version	FC909AAAMD	
	SW Version(BT)	CYW4343A2_001.003.016.0031.0000	
	SW Version(WiFi)	7.95.48	
FCC ID	XMR202207FC909A		

Antenna 3 (Radio Module 2)	Type	Integrated antenna
	Model	2450AD47A1590
	Manufacturer	Johanson
	Gain	2.2 dBi (customer declaration)
Supply Voltage	V <sub>NOM</sub>	24 VDC
AC/DC-Adaptor	None	
Manufacturer	Wuxi Origin Industry Service Co., Ltd No. 7, Lihe East Road, Hongshan Subdistrict, Xinwu District 214111 Wuxi City China	

#### 1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Power Supply	Statron	2224.2	To power the EUT
AE	Laptop	Lenovo	V14 G4 AMN	To connect to the EUT
CBL	M12 adapter cable	Haltian Oy	--	To connect the EUT to power supply and laptop
SFT	Tera term	--	--	For EUT configuration
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

## 1.5 Test Modes

Mode	Description
GSM850 / GPRS	Channel = 251 (848.8 MHz) Mode = Transmit Power = Maximum, Gamma 3 Modulation = GMSK Number of time slots = 1 Duty cycle = 25 %
GSM1900 / EGPRS	Channel = 661(1880 MHz) Mode = Transmit Power = Maximum, Gamma 3 Modulation = GMSK Number of time slots = 1 Duty cycle = 25 %
LTE FDD B4	UL EARFCN = 20050 (1720 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 20 MHz RB size = 1 RB offset = 49
LTE TDD B41	UL EARFCN =40620 (2593 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 15 MHz RB size = 1 RB offset = 37
LTE FDD B7	UL EARFCN =21350 (2560 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 20 MHz RB size = 1 RB offset = 0
LTE FDD B12	UL EARFCN =23095 (707.5 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 5 MHz RB size = 1 RB offset = 12
LTE FDD B13	UL EARFCN =23205 (779.5 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 5 MHz RB size = 1 RB offset = 0
LTE FDD B26	UL EARFCN =26740 (819 MHz) Mode = Transmit Power = Maximum Modulation = QPSK BW = 10 MHz RB size = 1 RB offset = 24

WiFi (IEEE 802.11g)	Mode = Transmit Modulation = OFDM/BPSK Power setting = 16 dBm Bandwidth = 20 MHz Channel = 6 (2437 MHz) Data rate = 6 Mbps
Bluetooth	Mode = Transmit Channel = 78 (2480 MHz) Power setting = 8 dBm Modulation = GFSK Spreading = FHSS Packet type = DH5
SRD	Frequency = 902.97 MHz Mode = Transmit Power setting = 14 dBm Modulation = None
<p>Comment: Test modes GSM850, GSM1900, and LTE B4/41/7/12/13/26 were tested separately along with WiFi 2.4G(CH6-2437MHz), BT-DH5(2480MHz) and SRD(902.97 MHz) always on simultaneously. Above modes are selected because they caused maximum output power in modular approval tests.</p>	

Mode	Description of combined test modes
1	GSM850/ WiFi / Bluetooth / SRD
2	GSM1900/ WiFi / Bluetooth / SRD
3	LTE FDD B4/ WiFi / Bluetooth / SRD
4	LTE TDD B41/ WiFi / Bluetooth / SRD
5	LTE FDD B7/ WiFi / Bluetooth / SRD
6	LTE FDD B12/ WiFi / Bluetooth / SRD
7	LTE FDD B13/ WiFi / Bluetooth / SRD
8	LTE FDD B26/ WiFi / Bluetooth / SRD

### 1.6 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB $\mu$ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Field strength limit:

This is the FCC Class B radiated emission limit (in units of dB $\mu$ V/m). The FCC limits are given in units of  $\mu$ V/m. The following formula is used to convert the units of  $\mu$ V/m to dB $\mu$ V/m:

$$\text{Field strength limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Example only for radiated field strength:

Reading + AF	= Net Reading	:	Net reading	-	Field strength limit	=	Margin
+21.5 dB $\mu$ V	+ 26 dB/m		47.5 dB $\mu$ V/m		- 57.0 dB $\mu$ V/m		= -9.5

## 2 Result Summary

FCC 47 CFR Part 24E				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC § 24.238(a)	Transmitter radiated spurious emissions	ANSI C63.10-2013 ANSI/TIA-603-D-2016 KDB 971168 ANSI C63.26-2015 5.5	PASS	
Comment: Above standards have been selected for tests because they allow the highest spurious emission limits when considering all built-in radio technologies.				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results - Transmitter radiated emissions

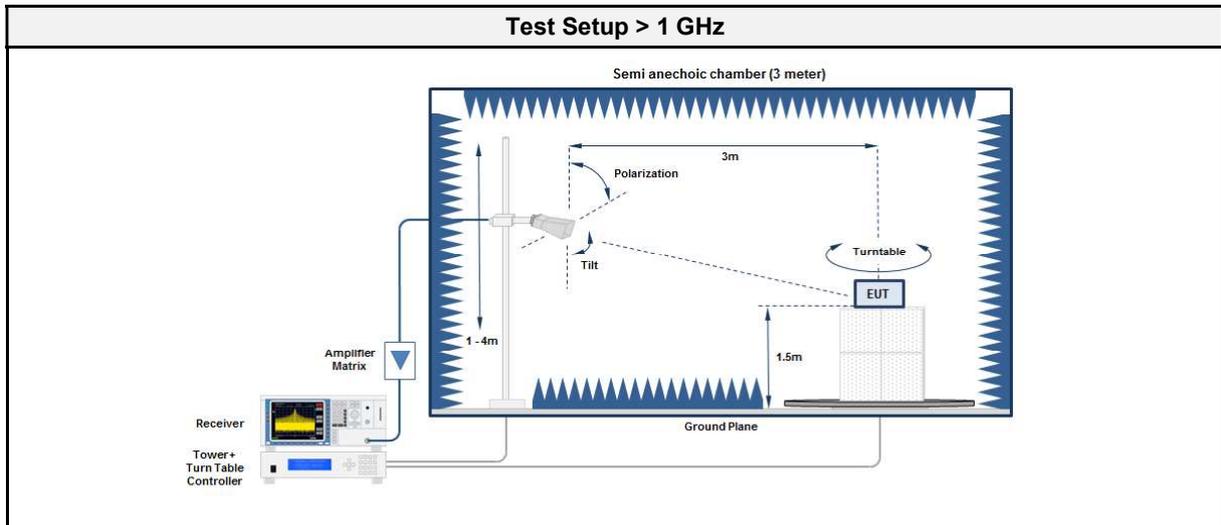
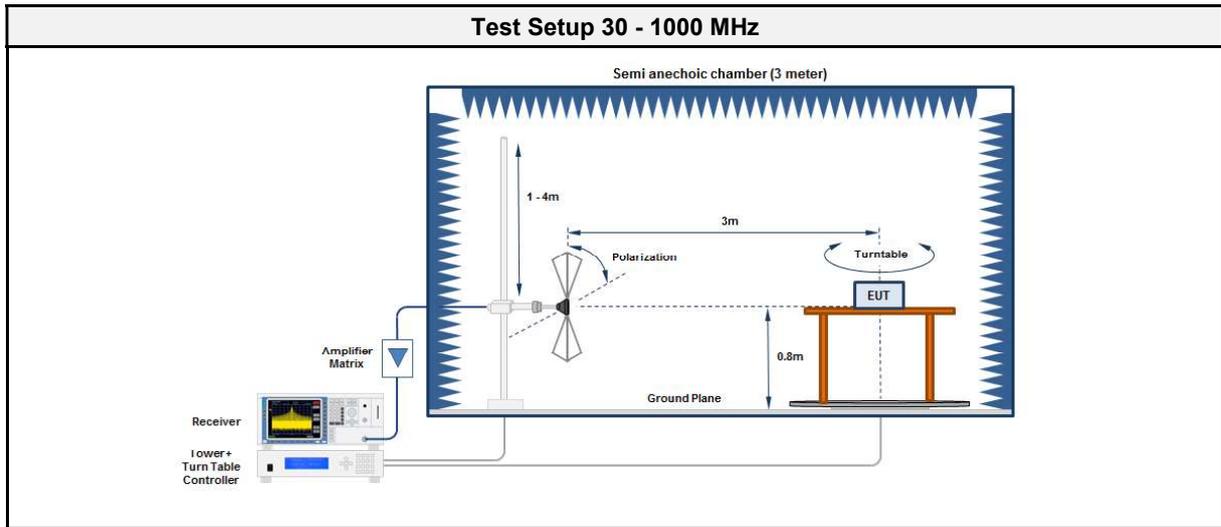
##### 3.1.1 Information

Test Information	
Reference	FCC § 24.238(a)
Measurement Method	ANSI/TIA-603-D / ANSI C63.26-2015 5.5
Measurement Uncertainty	± 5.95 dB
Operator	Md Abu Bakar Siddique
Date	2024-05-10

##### 3.1.2 Limits

Limits FCC				
Band	Frequency range [MHz]	Bandwidth	Attenuation [dB]	Limit [dBm EIRP]
-	-	1 MHz	$43+10 \cdot \text{Log}_{10}(P[W])$	-13
Comment: Above limit/rule part is applied to all bands according to KDB 996369 D04, clause 3.1				

3.1.3 Setup



3.1.4 Equipment

Test Equipment Below 1GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Measurement Receiver	R&S	ESU26	EF00887	2024-01	2025-01
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2025-10
Antenna	Schwarzbeck	BBHA 9120B	EF01561	2021-11	2024-11

Test Equipment Above 1GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF01011	2022-11	2024-11
Measurement Receiver	R&S	ESU26	EF00887	2024-01	2025-01
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2025-10
Antenna	Schwarzbeck	BBHA 9120B	EF01561	2021-11	2024-11

## 3.1.5 Procedure

<b>Test Procedure 30 - 1000 MHz</b>
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

<b>Test Procedure &gt; 1 GHz</b>
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

## 3.1.6 Results

<b>Test Results – Cellular + WiFi 2.4G + Bluetooth BR/EDR + SRD</b>						
Frequency [Fehler! Verweisquelle konnte nicht gefunden werden.]	Mode	Emission [MHz]	Level [dBm]	Pol.	Limit [dBm]	Margin [dB]
848.8	1	956.964	-32.20	ver	-13.00	-19.18
1880	2	1325	-31.90	ver	-13.00	-18.89
1880	2	2999	-16.90	hor	-13.00	-03.89
1880	2	3204	-35.30	ver	-13.00	-22.27
1720	3	3153	-20.90	hor	-13.00	-07.91
1720	3	3440	-26.40	hor	-13.00	-13.44
2593	4	2280	-34.90	hor	-13.00	-21.87
2560	5	2322	-15.00	hor	-13.00	-01.96
2560	5	2784	-27.50	ver	-13.00	-14.55
2560	5	5102	-37.00	ver	-13.00	-24.03
Comment: WiFi 2437MHz, BT 2480 MHz and SRD 902.97MHz Transmitters were active simultaneously with above mentioned GSM and LTE modes.						

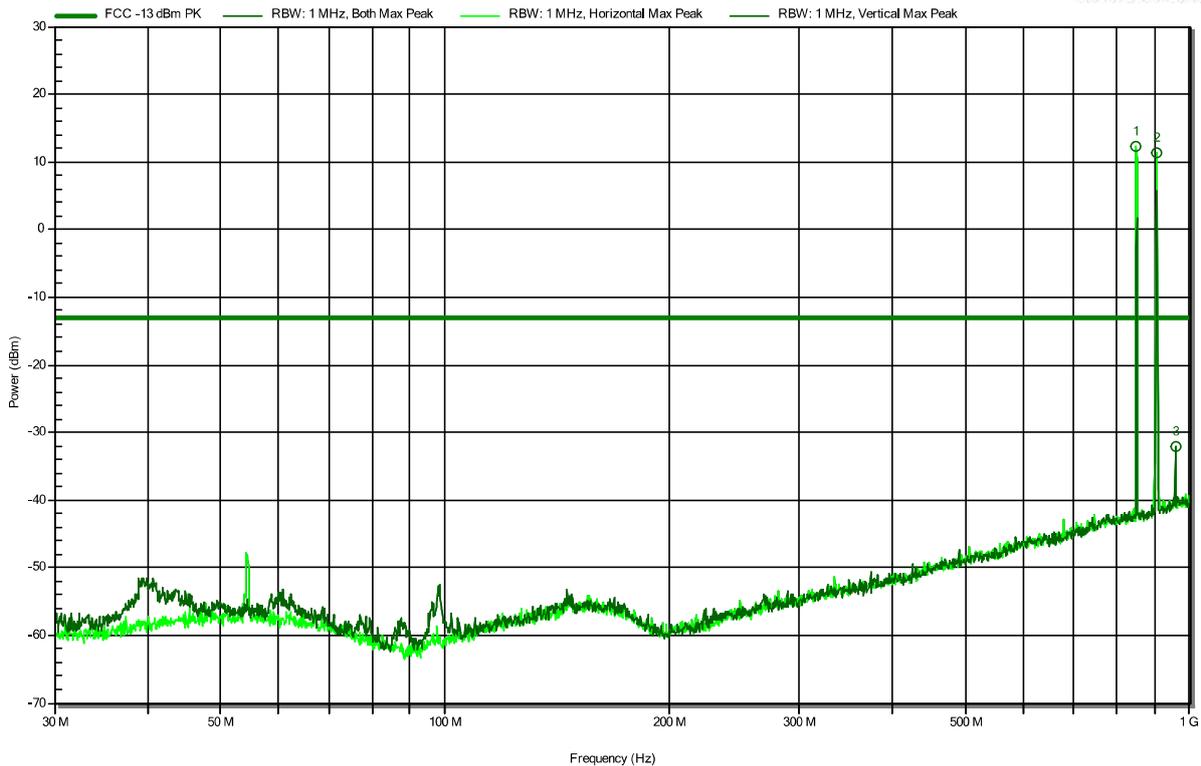
## ANNEX A Transmitter spurious emissions

### Radiated Spurious Emissions according to FCC Part 24E

Project Number: G0M-2403-2482  
 Applicant: Atlas Copco Airpower N.V.  
 Model Description: Machine mounted device, wireless interface for compressor machines  
 Model: NVGPCBA1841760017  
 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 1  
 Test Date: 2024-05-10  
 Note: Marker 1: GSM 850 UL Carrier  
 Marker 2: SRD Carrier

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RadiMation

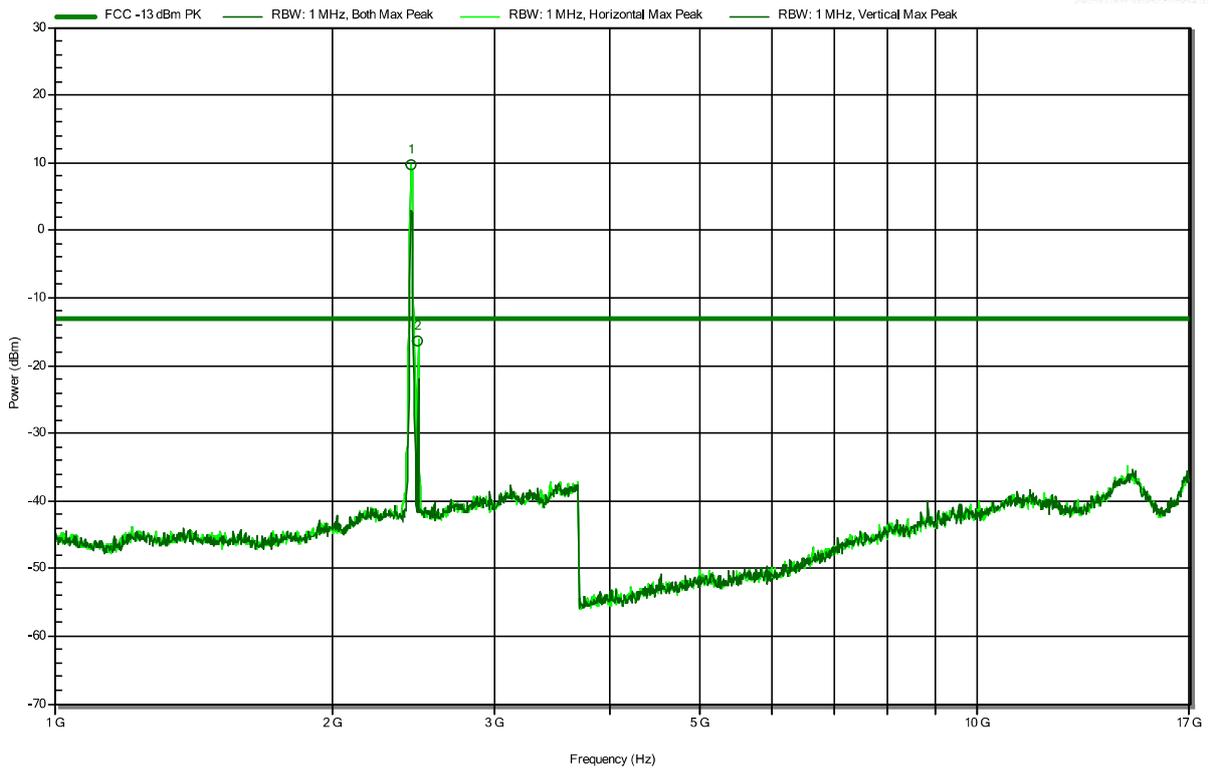


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
848.324 MHz	12.2 dBm			GSM850 UL Carrier	Horizontal
903 MHz	11.3 dBm			SRD Carrier	Horizontal
956.964 MHz	-32.2 dBm	-13 dBm	-19.18 dB	Pass	Vertical

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 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 1  
 Test Date: 2024-05-08  
 Note: Marker 1: WiFi Carrier  
 Marker 2: Bluetooth Carrier

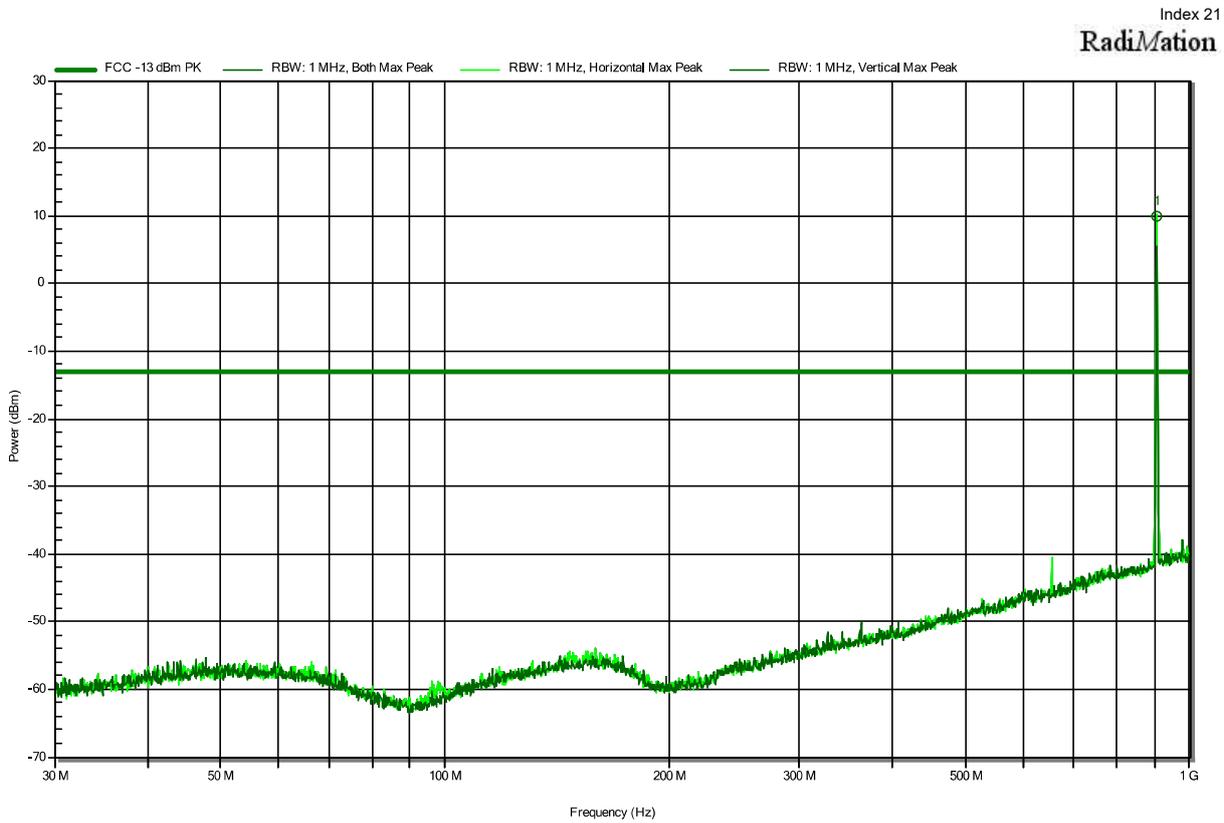
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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.435 GHz	9.7 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.3 dBm			Bluetooth Carrier	Horizontal

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 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 2  
 Test Date: 2024-05-10  
 Note: Marker 1: SRD Carrier



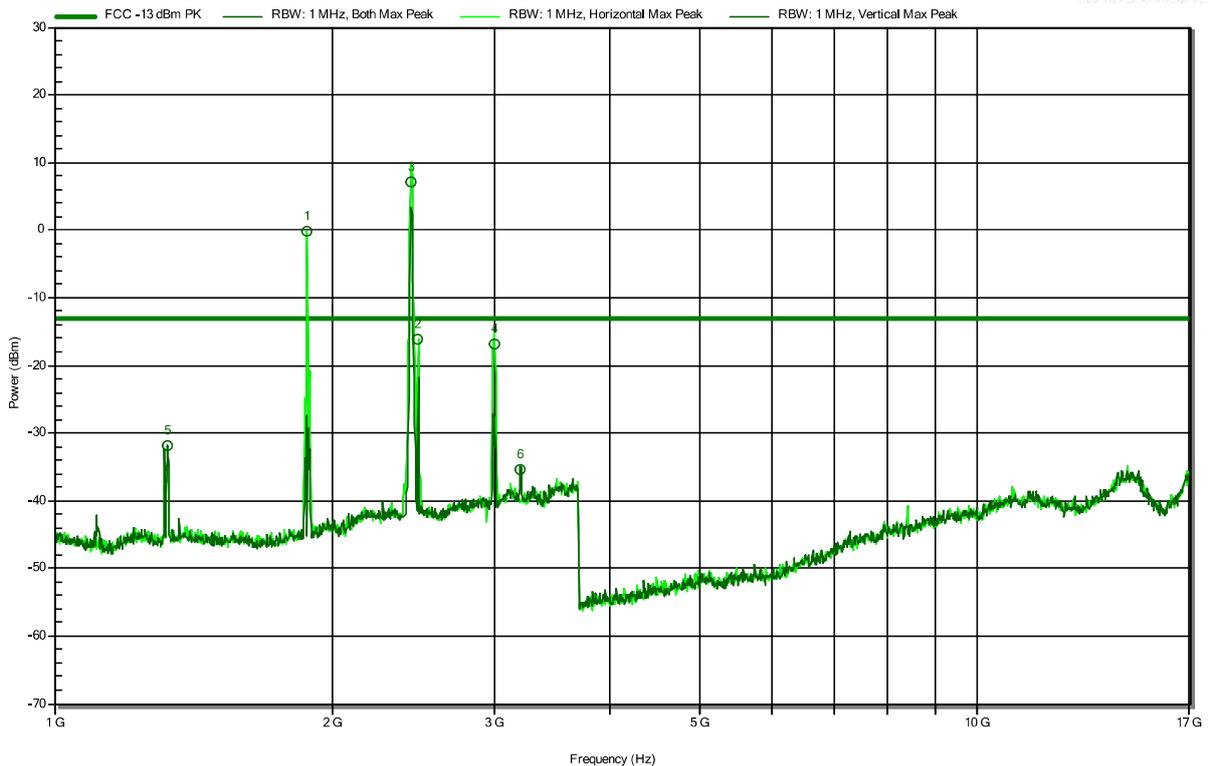
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
903 MHz	9.9 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 2  
 Test Date: 2024-05-08  
 Note: Marker 1: GSM 1900 Carrier  
 Marker 2: Bluetooth Carrier  
 Marker 3: WiFi Carrier

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**RadiMation**



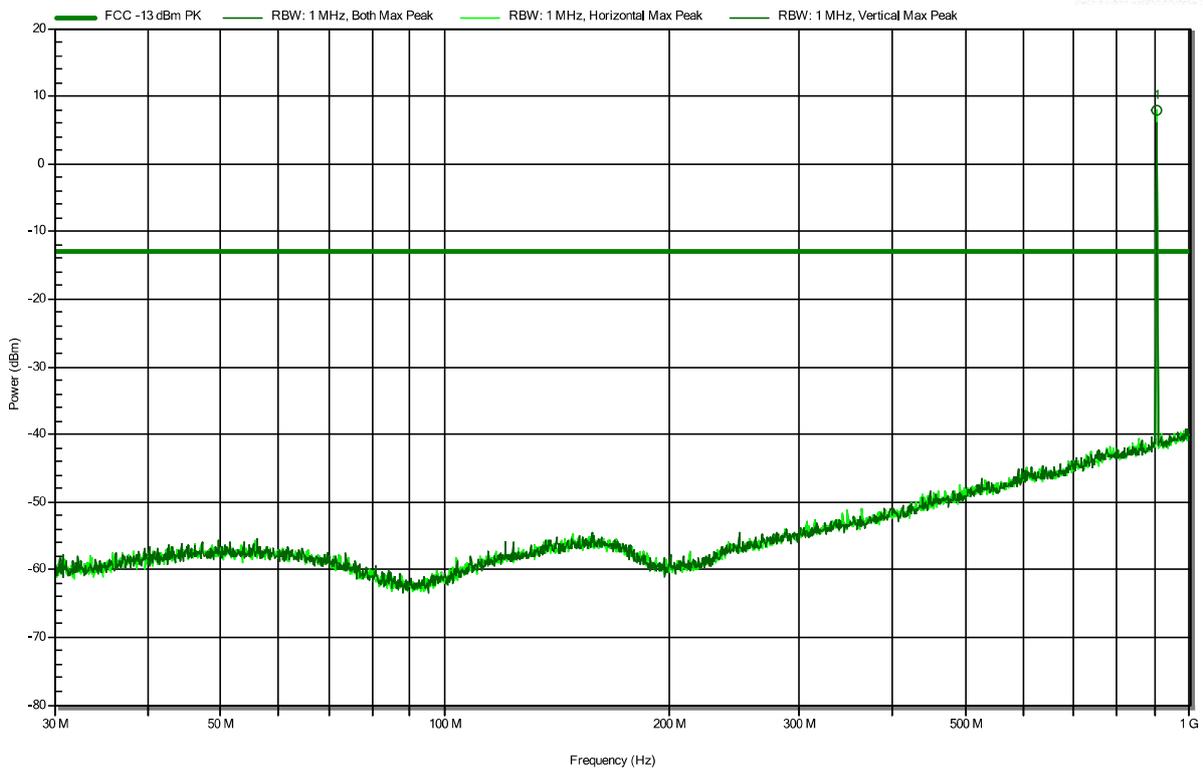
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.325 GHz	-31.9 dBm	-13 dBm	-18.89 dB	Pass	Vertical
1.88 GHz	-0.2 dBm			GSM 1900 Carrier	Horizontal
2.438 GHz	7.1 dBm			Bluetooth Carrier	Horizontal
2.48 GHz	-16.2 dBm			WiFi Carrier	Horizontal
2.999 GHz	-16.9 dBm	-13 dBm	-3.89 dB	Pass	Horizontal
3.204 GHz	-35.3 dBm	-13 dBm	-22.27 dB	Pass	Vertical

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 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 3  
 Test Date: 2024-05-10  
 Note: Marker 1: SRD Carrier

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**RadiMation**



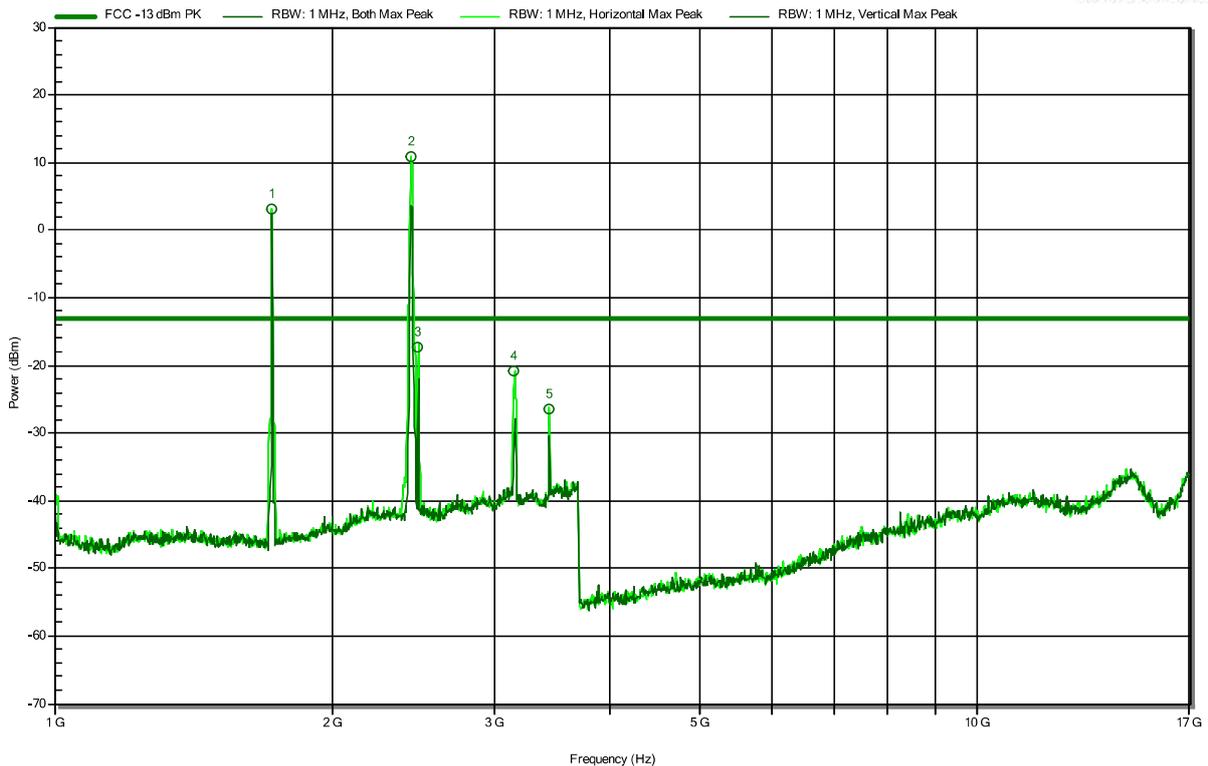
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
903 MHz	7.8 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 3  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: WiFi Carrier  
 Marker 3: Bluetooth Carrier

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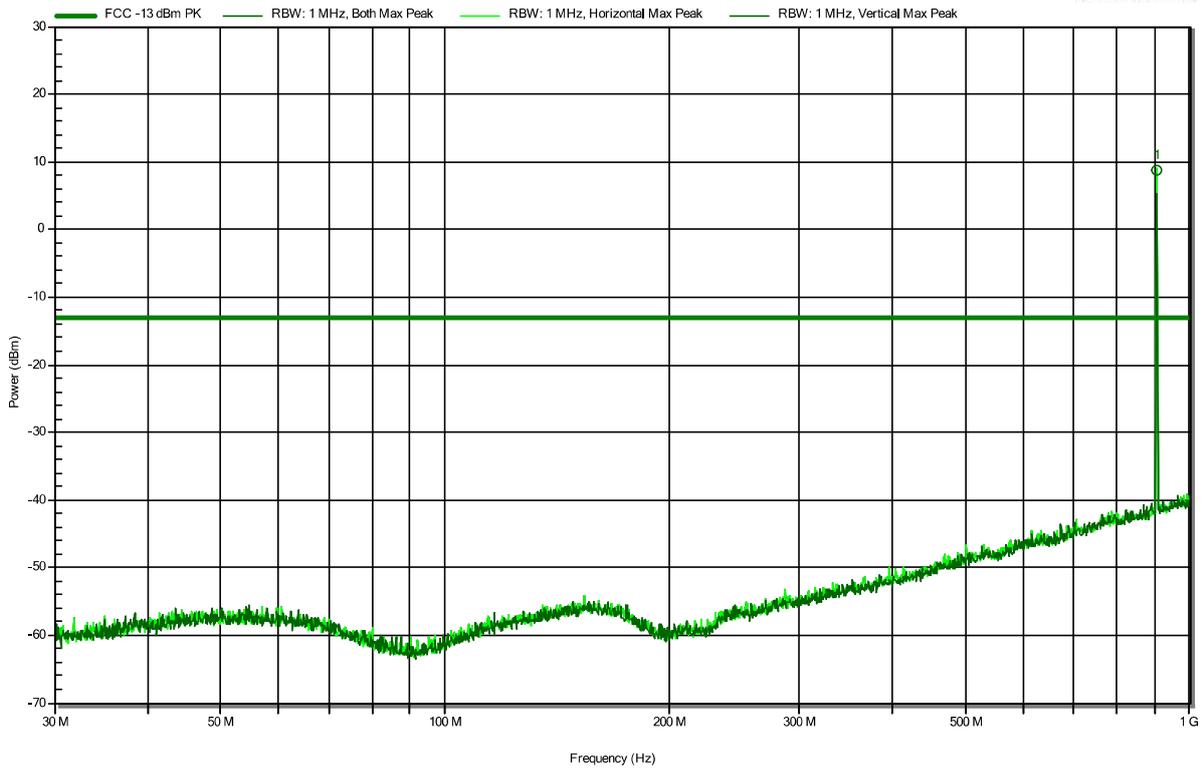
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.72 GHz	3.2 dBm			LTE UL Carrier	Horizontal
2.435 GHz	10.8 dBm			WiFi Carrier	Horizontal
2.48 GHz	-17.3 dBm			Bluetooth Carrier	Horizontal
3.153 GHz	-20.9 dBm	-13 dBm	-7.91 dB	Pass	Horizontal
3.44 GHz	-26.4 dBm	-13 dBm	-13.44 dB	Pass	Horizontal

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 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 4  
 Test Date: 2024-05-10  
 Note: Marker 1: SRD Carrier

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**RadiMation**



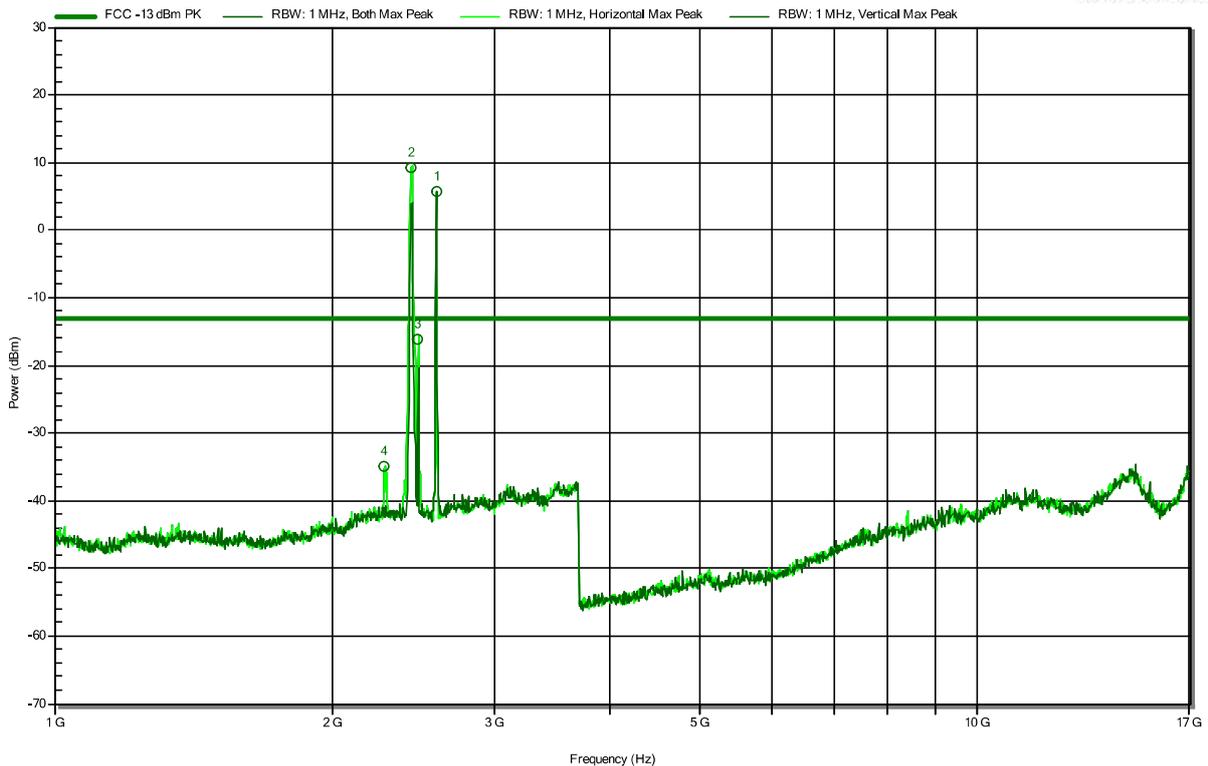
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
903.032 MHz	8.9 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 4  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: WiFi Carrier  
 Marker 3: Bluetooth Carrier

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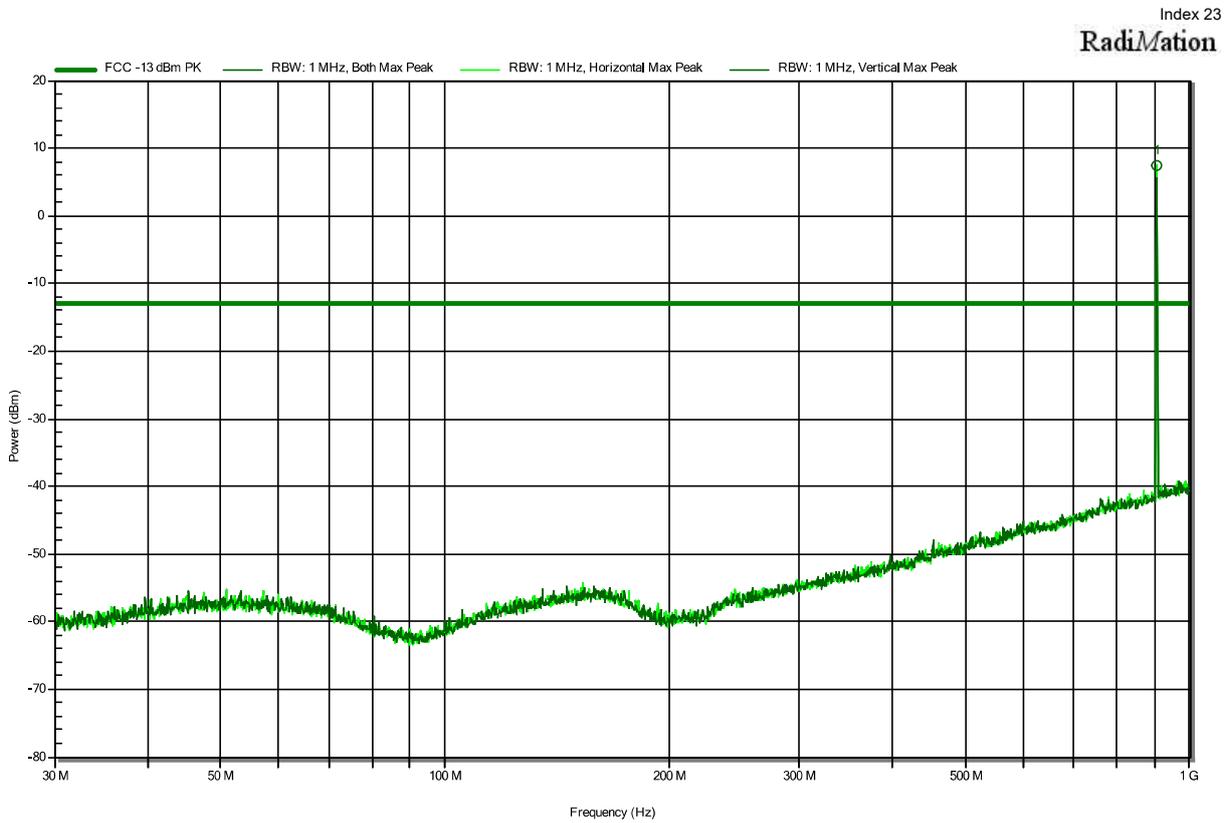
**RadiMation**



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.28 GHz	-34.9 dBm	-13 dBm	-21.87 dB	Pass	Horizontal
2.438 GHz	9.3 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.1 dBm			Bluetooth Carrier	Horizontal
2.593 GHz	5.6 dBm			LTE UL Carrier	Vertical

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Project Number: G0M-2403-2482  
 Applicant: Atlas Copco Airpower N.V.  
 Model Description: Machine mounted device, wireless interface for compressor machines  
 Model: NVGPCBA1841760017  
 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 5  
 Test Date: 2024-05-10  
 Note: Marker 1: SRD Carrier

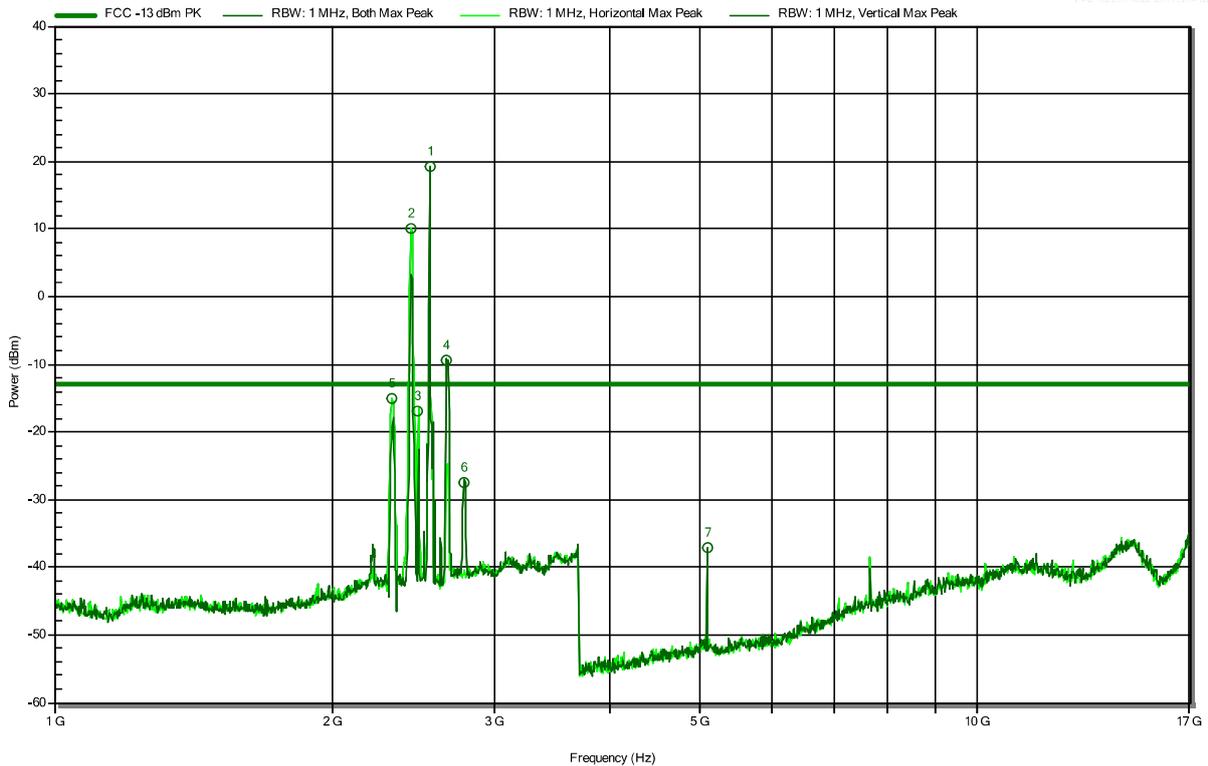


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
903 MHz	7.3 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

Project Number: G0M-2403-2482  
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 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 5  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: WiFi Carrier  
 Marker 3: Bluetooth Carrier  
 Marker 4: LTE DL Carrier

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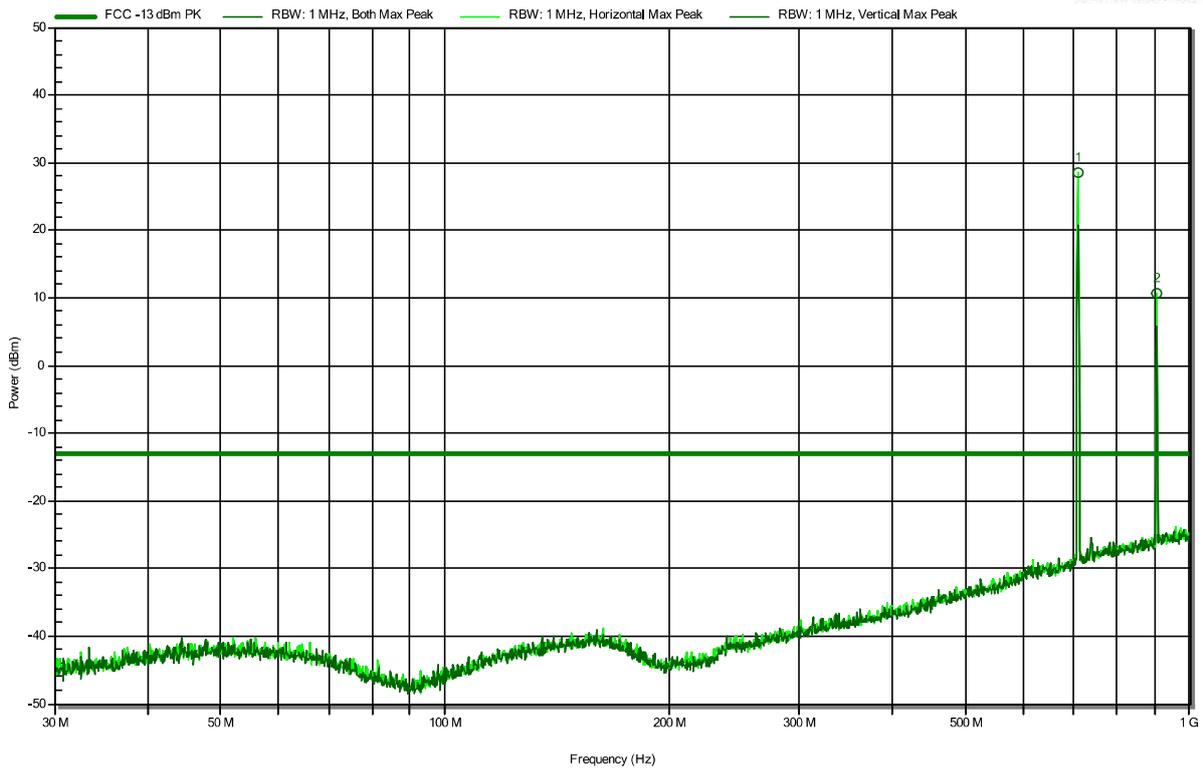
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.322 GHz	-15 dBm	-13 dBm	-1.96 dB	Pass	Horizontal
2.438 GHz	10 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.9 dBm			Bluetooth Carrier	Horizontal
2.551 GHz	19.3 dBm			LTE UL Carrier	Vertical
2.663 GHz	-9.3 dBm			LTE DL Carrier	Vertical
2.784 GHz	-27.5 dBm	-13 dBm	-14.55 dB	Pass	Vertical
5.102 GHz	-37 dBm	-13 dBm	-24.03 dB	Pass	Vertical

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 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 6  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: SRD Carrier

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RadiMation

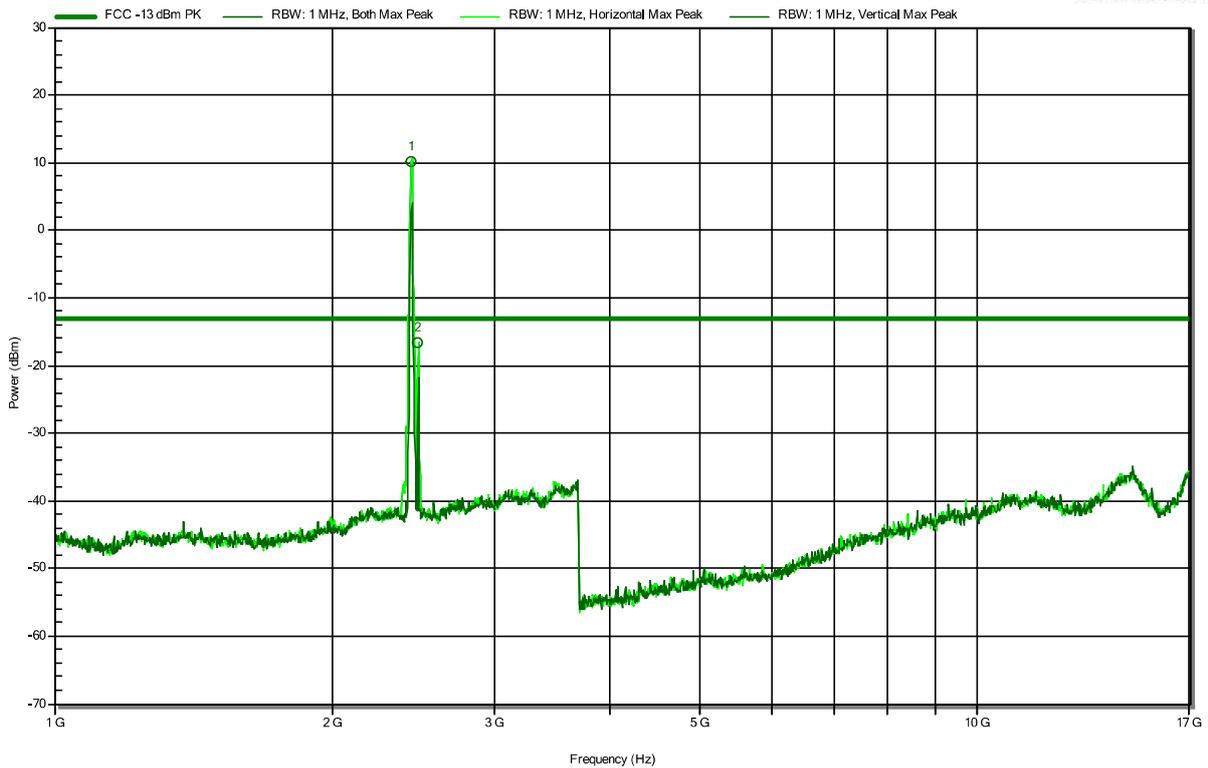


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
707.61 MHz	28.6 dBm			LTE UL Carrier	Horizontal
902.968 MHz	10.6 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 6  
 Test Date: 2024-05-10  
 Note: Marker 1: WiFi Carrier  
 Marker 2: Bluetooth Carrier

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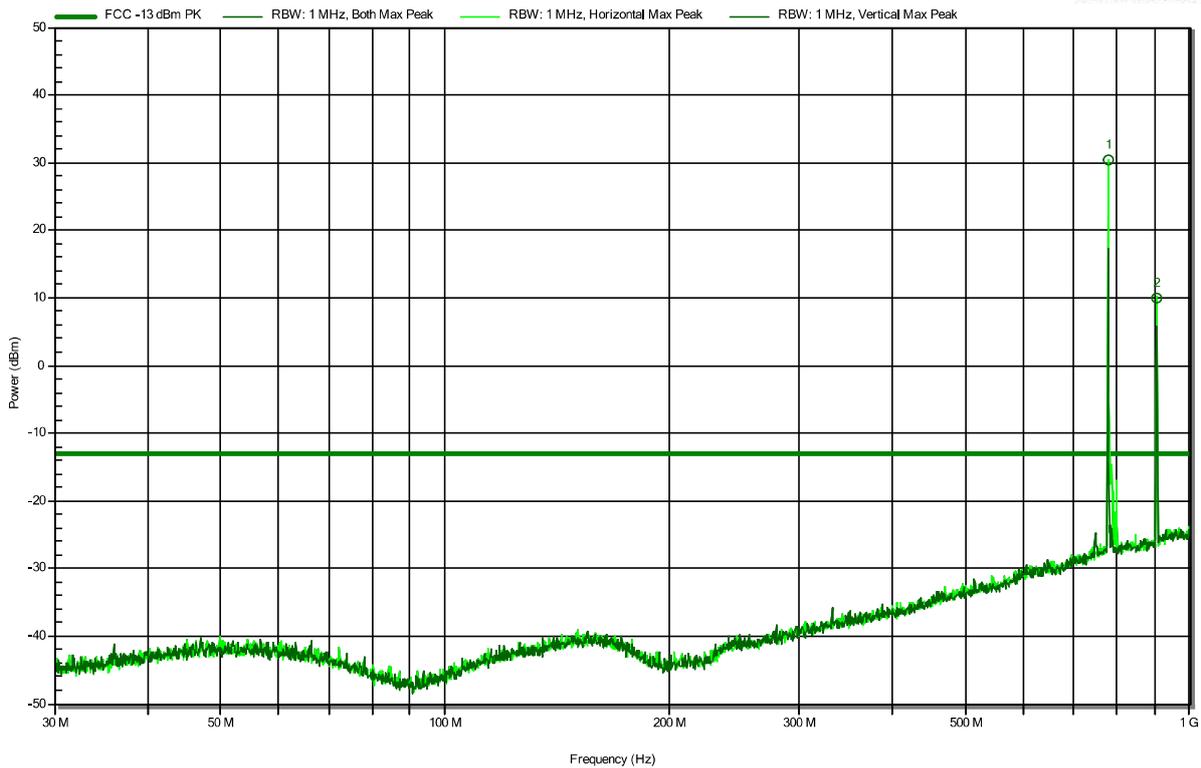
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.438 GHz	10.1 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.6 dBm			Bluetooth Carrier	Horizontal

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 Model: NVGPCBA1841760017  
 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 7  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: SRD Carrier

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**RadiMation**

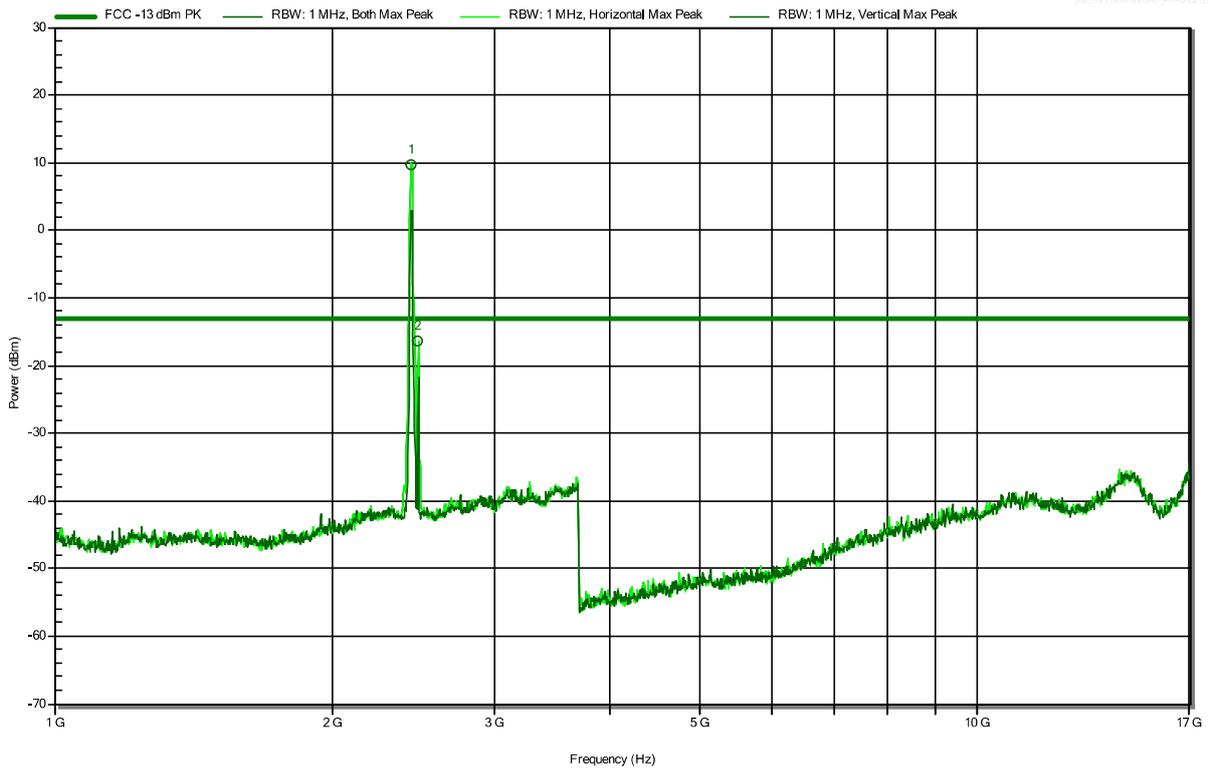


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
777.32 MHz	30.4 dBm			LTE UL Carrier	Horizontal
902.968 MHz	10.1 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 7  
 Test Date: 2024-05-10  
 Note: Marker 1: WiFi Carrier  
 Marker 2: Bluetooth Carrier

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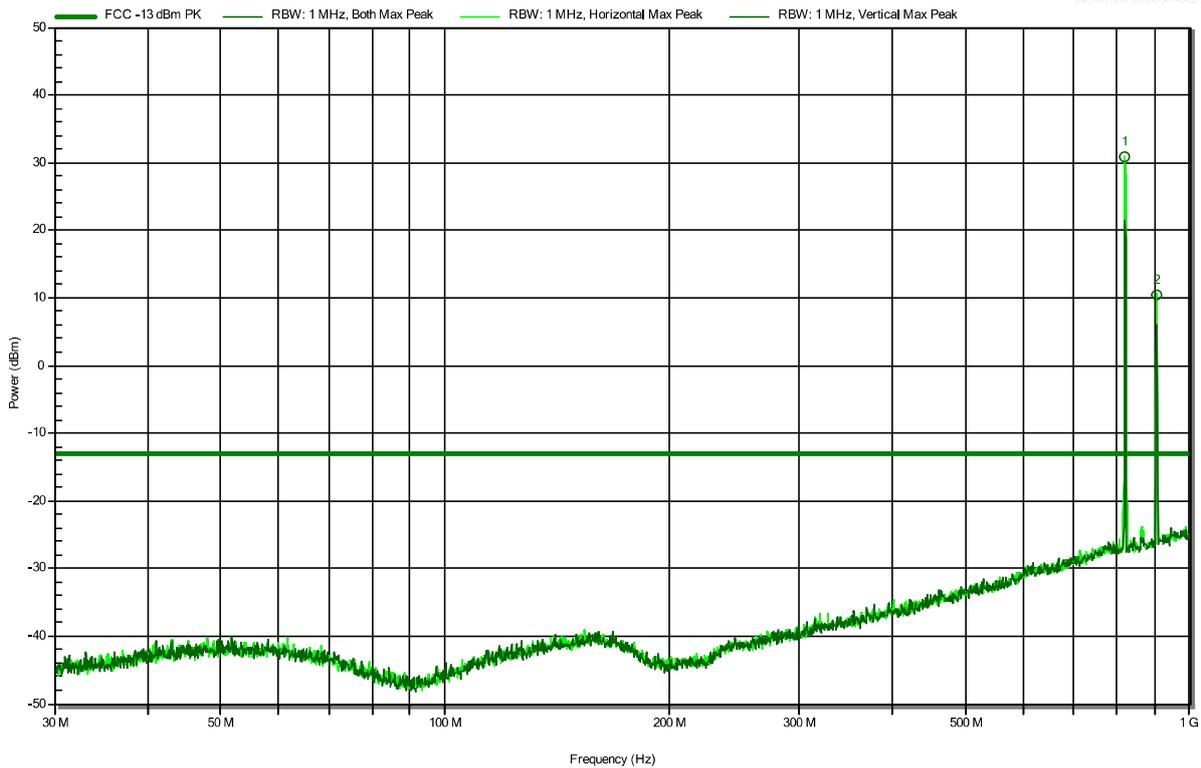
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.435 GHz	9.8 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.4 dBm			Bluetooth Carrier	Horizontal

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 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck VULB 9168  
 Measurement distance: 3 m  
 Mode: 8  
 Test Date: 2024-05-10  
 Note: Marker 1: LTE UL Carrier  
 Marker 2: SRD Carrier

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RadiMation

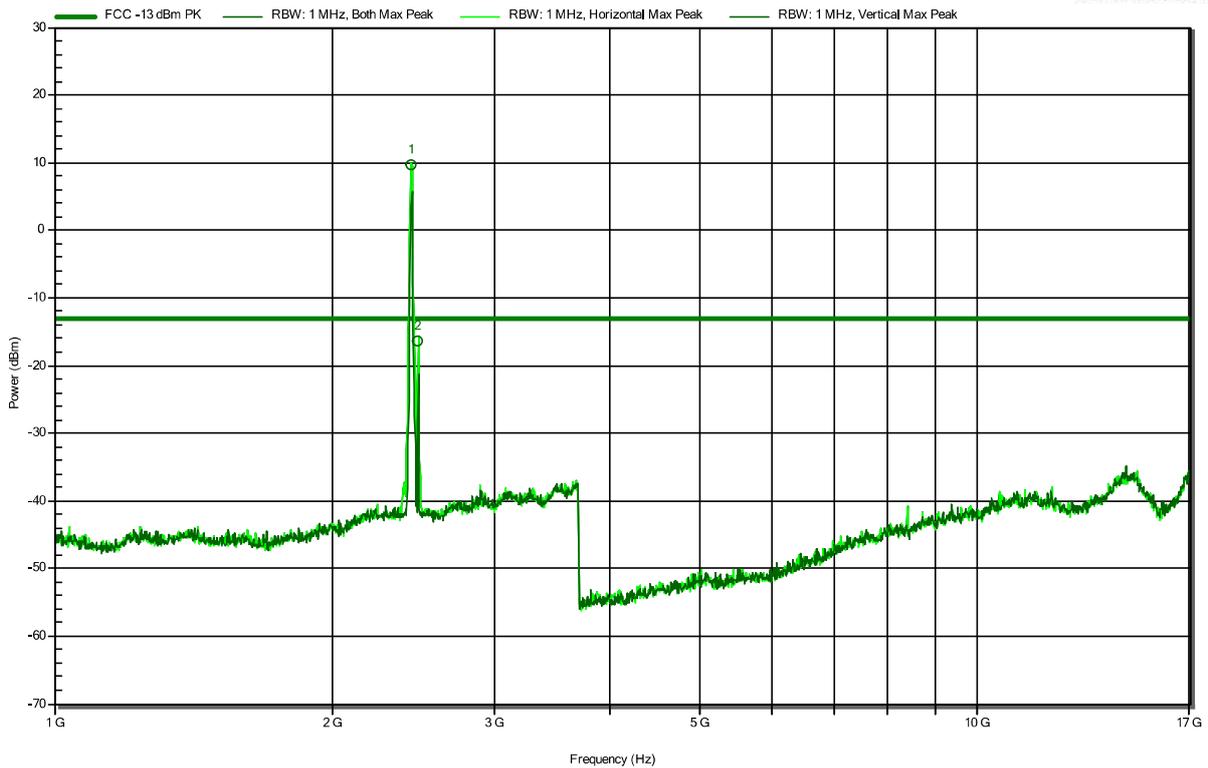


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
819.224 MHz	30.8 dBm			LTE UL Carrier	Horizontal
902.968 MHz	10.5 dBm			SRD Carrier	Horizontal

### Radiated Spurious Emissions according to FCC Part 24E

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 Model: NVGPCBA1841760017  
 Test Sample ID: 48226  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Siddique  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 25 °Celsius, Vnom: 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: 8  
 Test Date: 2024-05-10  
 Note: Marker 1: WiFi Carrier  
 Marker 2: Bluetooth Carrier

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.438 GHz	9.8 dBm			WiFi Carrier	Horizontal
2.48 GHz	-16.5 dBm			Bluetooth Carrier	Horizontal

=== End of test report ===