

Report No.: SUZR/2021/A002402

Rev.: 01

Page: 1 of 101

# TEST REPORT

**Application No.:** ZR/2021/A0024  
**Applicant:** Great Talent Technology Limited  
**Address of Applicant:** 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China  
**Manufacturer:** Great Talent Technology Limited  
**Address of Manufacturer:** 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China  
**EUT Description:** Smart Phone  
**Model No.:** TW102  
**Trade Mark:** Treswave  
**FCC ID:** 2ALZM-TW102  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/11/18  
**Date of Test:** 2021/11/18 to 2021/12/30  
**Date of Issue:** 2021/12/31

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun  
Wireless Laboratory Manager




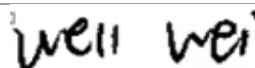
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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/12/31		Original

<b>Prepared By</b>	 <hr/> (Weller Liu) / Engineer
<b>Checked By</b>	 <hr/> (Well Wei) / Reviewer



## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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### 3 General Information

#### 3.1 Details of Client

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Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. 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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

#### 3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

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

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number:0031225543



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### 3.4 General Description of EUT

EUT Description:	Smart Phone		
Model No.:	TW102		
Trade Mark:	Treswave		
Hardware Version:	Q6005_V1.0		
Software Version:	TW102.00.02.105404		
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 1 \text{ MHz}$ , where: - $f_c$ = "Operating Frequency" in MHz, - $N$ = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V4.1		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module		
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated		
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by applicant		
	1.20dBi		
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
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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



### 3.5 Test Environment

Environment Parameter	101kpa Selected Values During Tests	
Relative Humidity	44~46% RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTNV	-10	3.8
HTNV	55	3.8

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature  
 LT: Low Extreme Test Temperature  
 HT: High Extreme Test Temperature

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>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.</p>	
The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 1.20 dBi.	



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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.

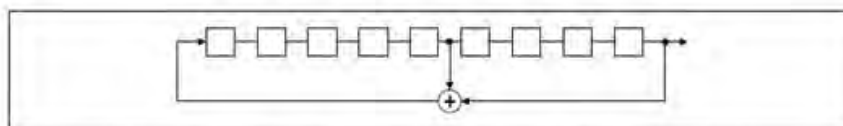
> Number of shift register stages: 9

> Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits

> Longest sequence of zeros: 8 (non-inverted signal)

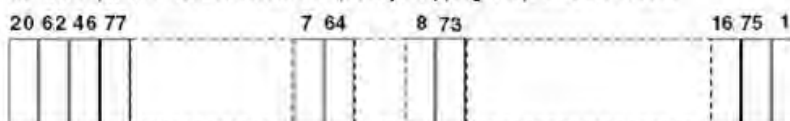
Linear Feedback Shift Register for Generation of the PRBS sequence

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:



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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

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>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.</li> <li>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.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		



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<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



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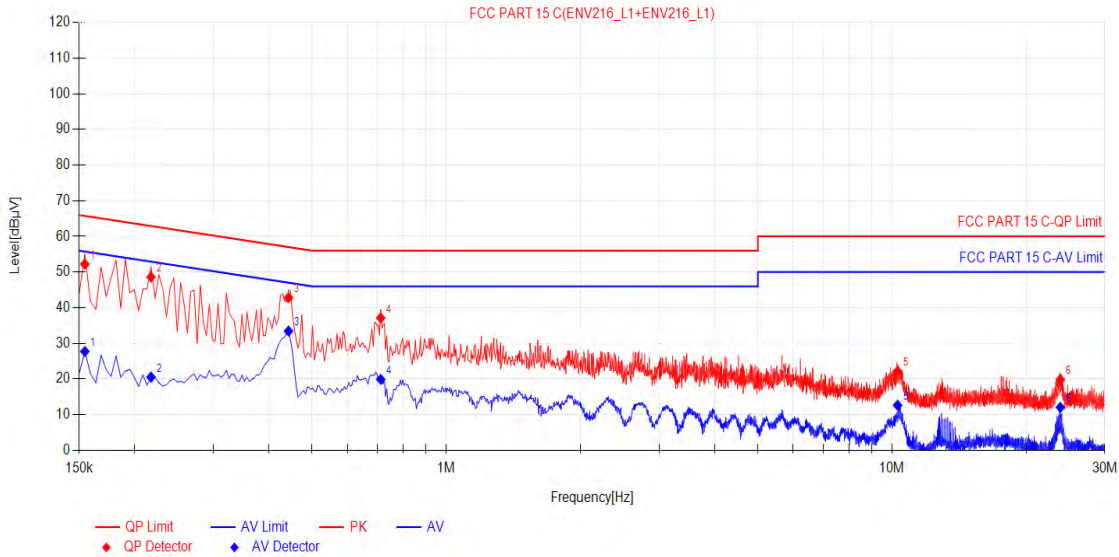
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Final Data List								
NO.	Frequency [MHz]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1545	52.21	65.75	13.54	27.72	55.75	28.03	PASS
2	0.2175	48.59	62.91	14.32	20.52	52.91	32.39	PASS
3	0.4425	42.81	57.01	14.20	33.44	47.01	13.57	PASS
4	0.7125	37.13	56.00	18.87	19.92	46.00	26.08	PASS
5	10.293	22.15	60.00	37.85	12.63	50.00	37.37	PASS
6	23.8605	19.86	60.00	40.14	12.06	50.00	37.94	PASS

Remark:

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

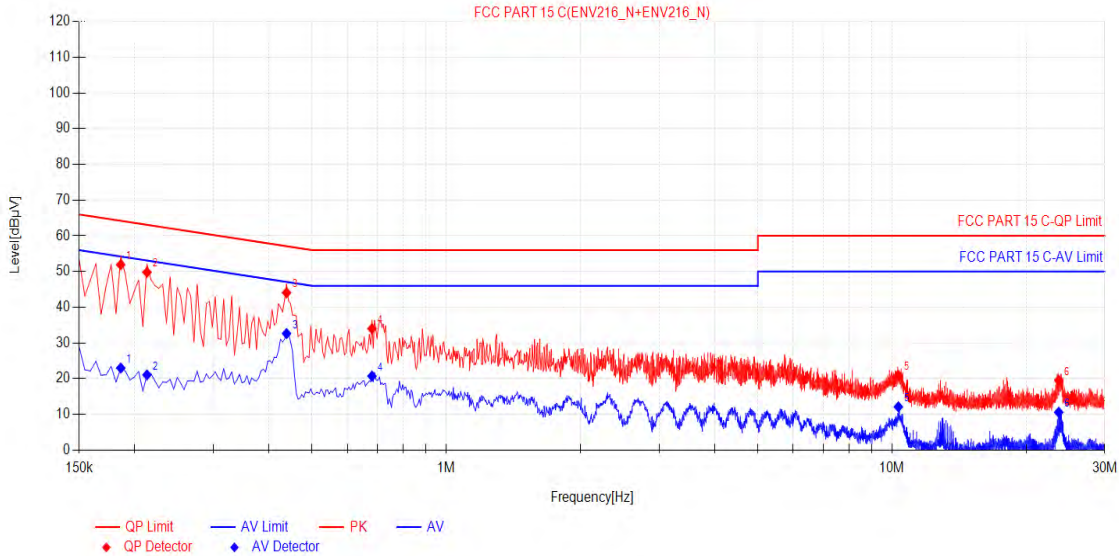


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Neutral Line:



Final Data List								
NO.	Frequency [MHz]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1860	51.92	64.21	12.29	22.98	54.21	31.23	PASS
2	0.213	49.80	63.09	13.29	21.05	53.09	32.04	PASS
3	0.438	44.06	57.10	13.04	32.63	47.10	14.47	PASS
4	0.681	34.01	56.00	21.99	20.73	46.00	25.27	PASS
5	10.3335	20.92	60.00	39.08	12.12	50.00	37.88	PASS
6	23.6580	19.52	60.00	40.48	10.59	50.00	39.41	PASS

Remark:

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



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.5
Test Setup:	
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 $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

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:	
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 $\pi/4$ DQPSK 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: <b>Appendix</b>	



### 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:	
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 $\pi/4$ DQPSK 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: <b>Appendix</b>	



### 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:	
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: <b>Appendix</b>	



### 4.8 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.4
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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 7.8.6
Test Setup:	
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 $\pi/4$ DQPSK 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: <b>Appendix</b>	



### 4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.8
Test Setup:	
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 $\pi/4$ DQPSK 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: <b>Appendix</b>	



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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 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio 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:					

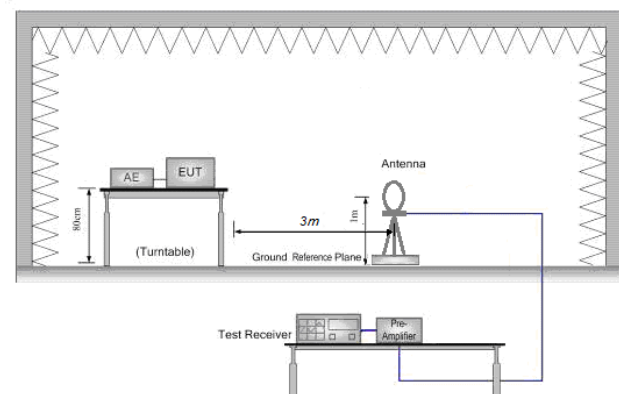


Figure 1. Below 30MHz

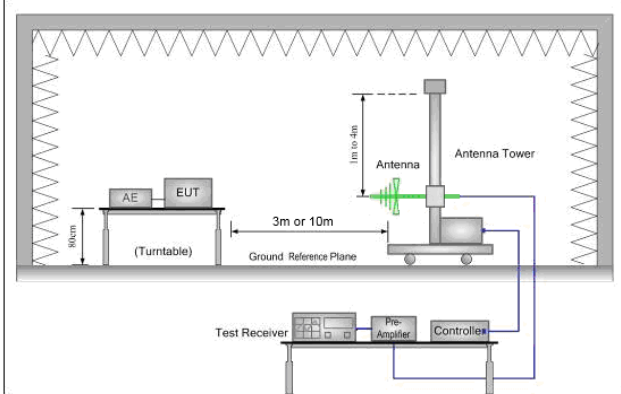


Figure 2. 30MHz to 1GHz



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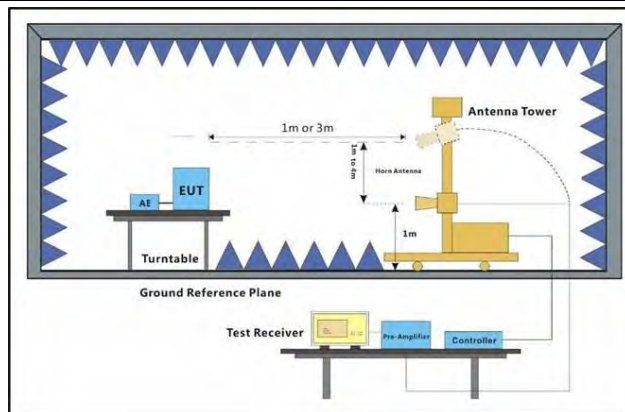


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>Test the EUT in the lowest channel, the middle channel, the Highest channel.</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>RBW = 120 kHz</li> <li>VBW = 300 kHz</li> <li>Detector = Peak</li> <li>Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>RBW = 1 MHz</li> <li>VBW ≥ 3 MHz</li> </ul>





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	<ul style="list-style-type: none"> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.</p> <p>Pretest the EUT at Charge + Transmitting mode</p> <p>For below 1GHz part, through pre-scan, the worst case is the lowest channel.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	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
		74.0	Peak Value

Test Setup:

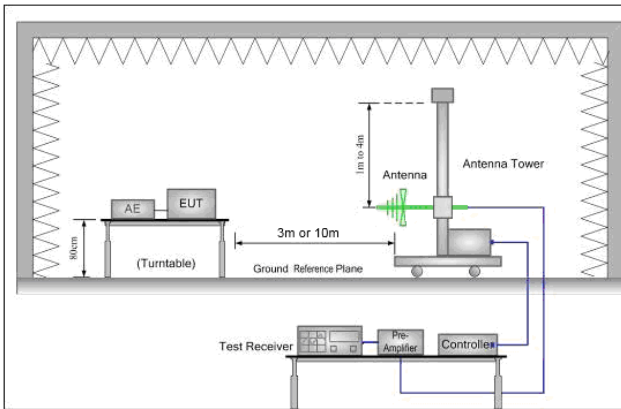


Figure 1. 30MHz to 1GHz

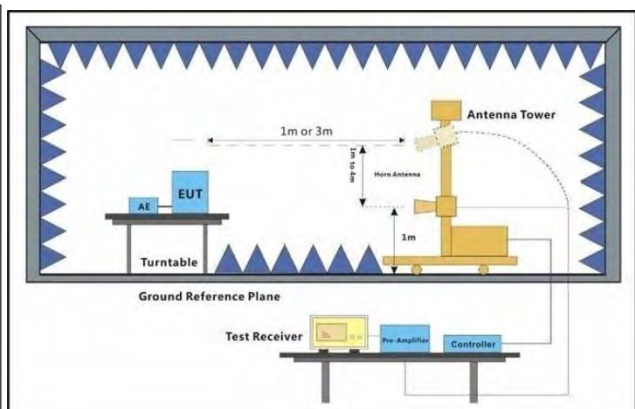


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit</li> </ol>
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	<p>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</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.</p> <p>Pretest the EUT at Charge + Transmitting mode,</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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## 6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Power Meter	Anritsu	ML2495A	2129005	2021/12/22	2022/12/21
Power Sensor	Anritsu	MA2411B	1911397	2021/12/22	2022/12/21
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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## 20dB Emission Bandwidth Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.056	---	PASS
		2441	1.059	---	PASS
		2480	1.038	---	PASS
2DH5	Ant1	2402	1.308	---	PASS
		2441	1.284	---	PASS
		2480	1.284	---	PASS
3DH5	Ant1	2402	1.296	---	PASS
		2441	1.305	---	PASS
		2480	1.302	---	PASS



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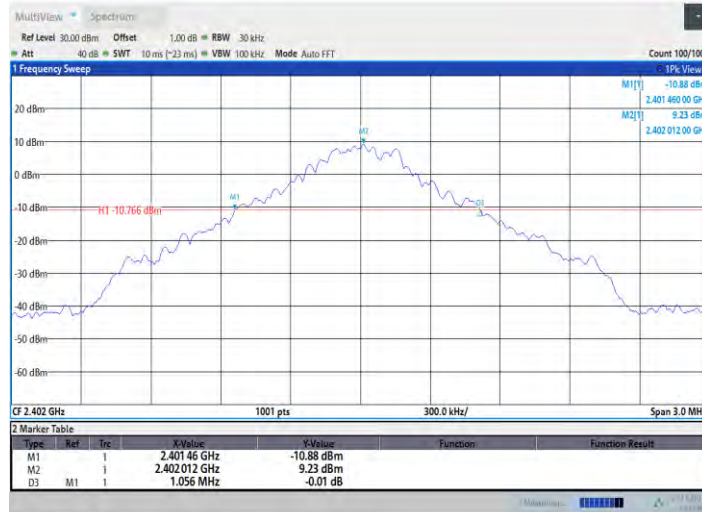
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Test Graphs

DH5\_Ant1\_2402



15:25:01 23.11.2021

DH5\_Ant1\_2441



15:26:47 23.11.2021



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DH5\_Ant1\_2480



15:28:14 23.11.2021

2DH5\_Ant1\_2402



15:29:53 23.11.2021



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2DH5\_Ant1\_2441



15:31:29 23.11.2021

2DH5\_Ant1\_2480



15:33:33 23.11.2021



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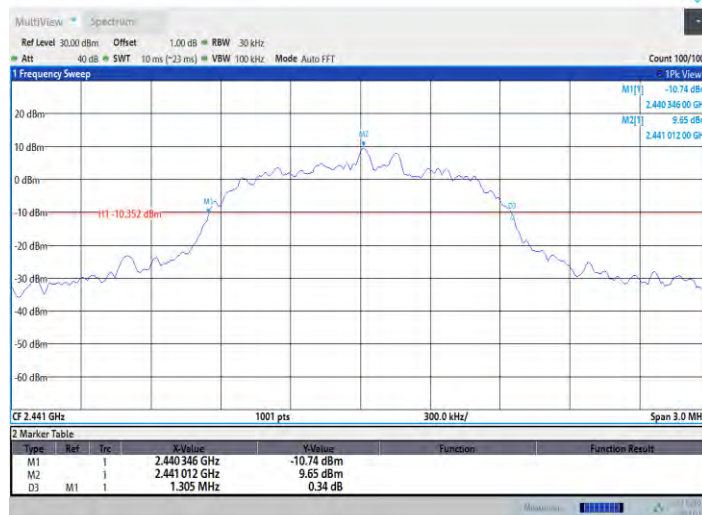
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3DH5\_Ant1\_2402



15:35:15 23.11.2021

3DH5\_Ant1\_2441



15:37:13 23.11.2021



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### 3DH5\_Ant1\_2480



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## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.002	2401.495	2402.496	---	PASS
		2441	0.99	2440.497	2441.487	---	PASS
		2480	0.954	2479.515	2480.469	---	PASS
2DH5	Ant1	2402	1.202	2401.398	2402.600	---	PASS
		2441	1.198	2440.399	2441.596	---	PASS
		2480	1.186	2479.403	2480.589	---	PASS
3DH5	Ant1	2402	1.189	2401.401	2402.590	---	PASS
		2441	1.202	2440.395	2441.597	---	PASS
		2480	1.188	2479.404	2480.592	---	PASS



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Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



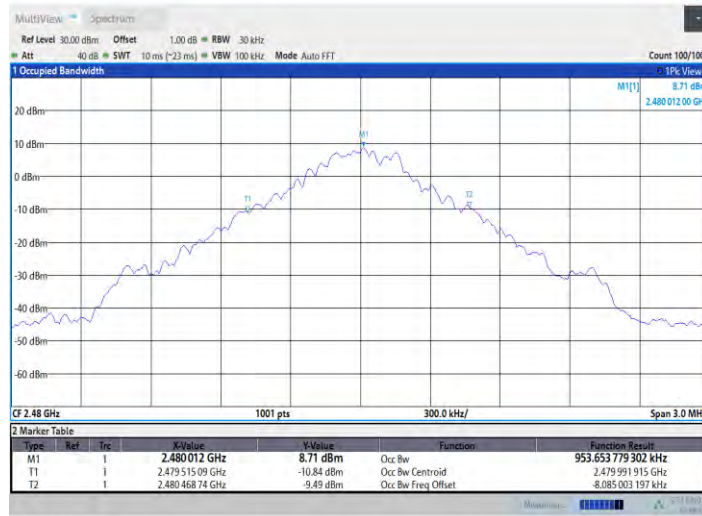
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2DH5\_Ant1\_2402



15:30:04 23.11.2021



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2DH5\_Ant1\_2441



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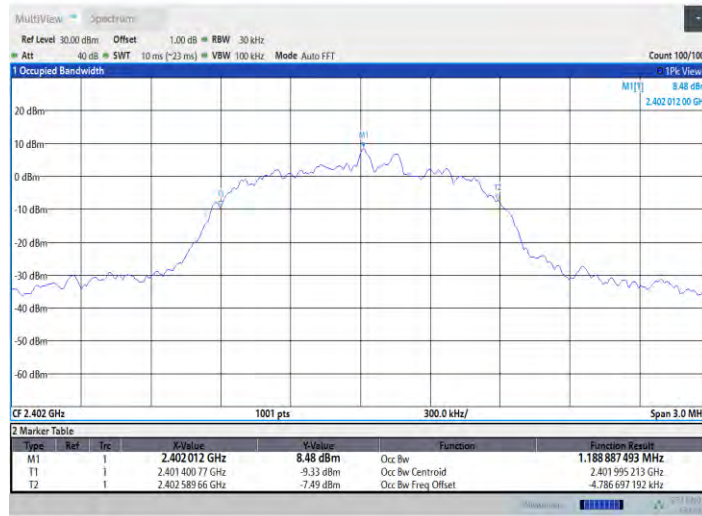
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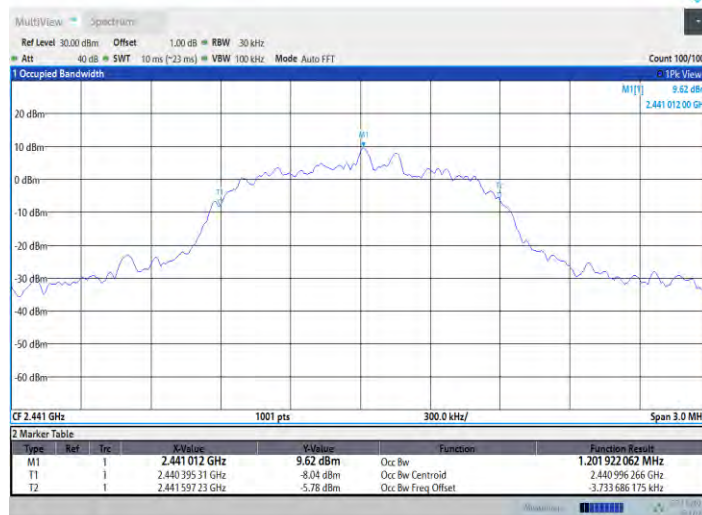
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3DH5\_Ant1\_2441



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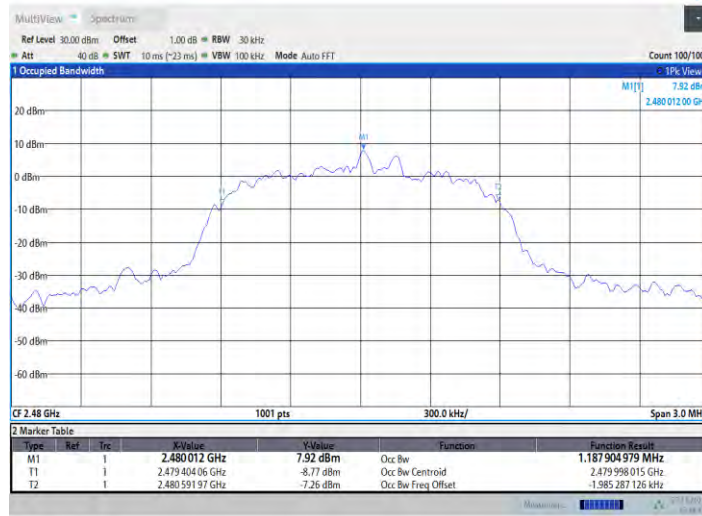
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## Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	11.62	<=20.97	PASS
		2441	12.76	<=20.97	PASS
		2480	11.05	<=20.97	PASS
2DH5	Ant1	2402	12.42	<=20.97	PASS
		2441	13.52	<=20.97	PASS
		2480	11.91	<=20.97	PASS
3DH5	Ant1	2402	12.68	<=20.97	PASS
		2441	13.79	<=20.97	PASS
		2480	12.22	<=20.97	PASS



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## Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.994	>=0.706	PASS
2DH5	Ant1	Hop	1.002	>=0.872	PASS
3DH5	Ant1	Hop	1.018	>=0.870	PASS



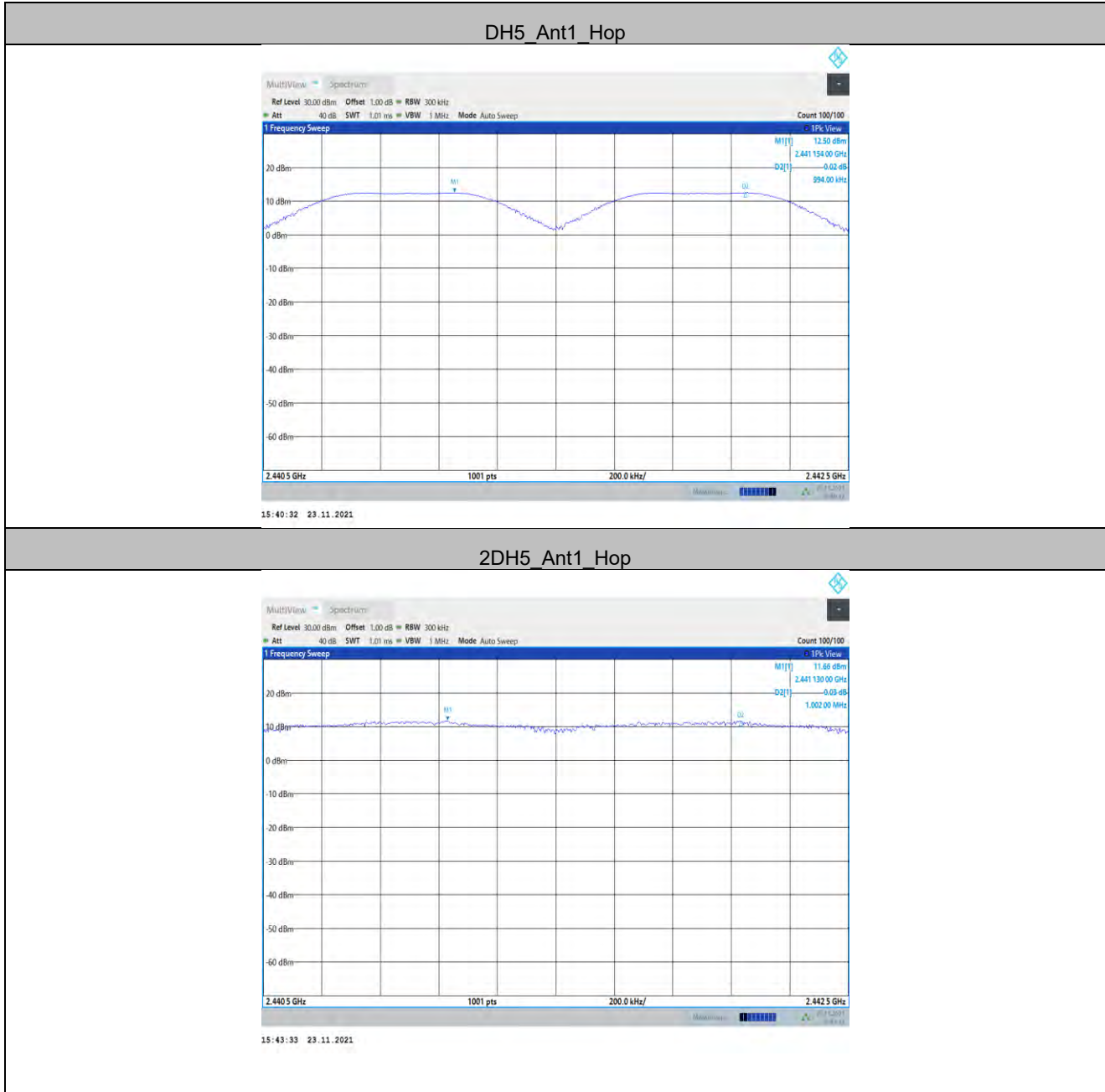
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Test Graphs

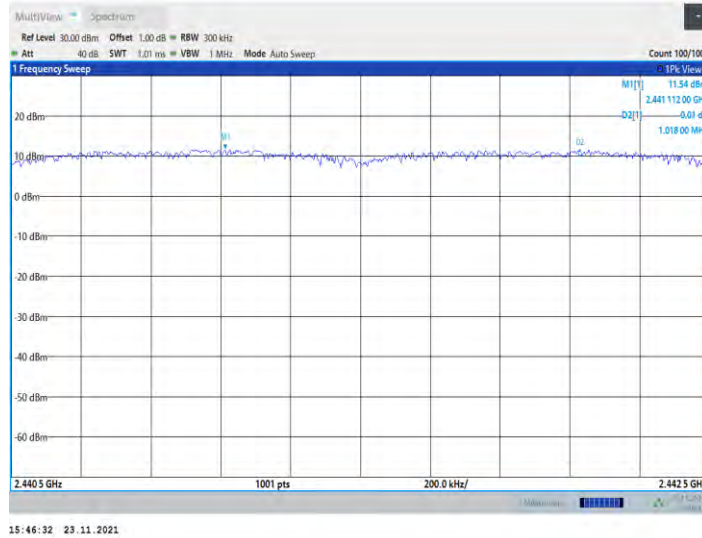


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3DH5\_Ant1\_Hop



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**Time of occupancy  
Test Result**

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	330	0.13	<=0.4	PASS
DH3	Ant1	Hop	1.65	180	0.297	<=0.4	PASS
DH5	Ant1	Hop	2.90	120	0.348	<=0.4	PASS
2DH1	Ant1	Hop	0.40	320	0.128	<=0.4	PASS
2DH3	Ant1	Hop	1.65	130	0.215	<=0.4	PASS
2DH5	Ant1	Hop	2.90	90	0.261	<=0.4	PASS
3DH1	Ant1	Hop	0.40	320	0.128	<=0.4	PASS
3DH3	Ant1	Hop	1.65	180	0.297	<=0.4	PASS
3DH5	Ant1	Hop	2.90	130	0.377	<=0.4	PASS

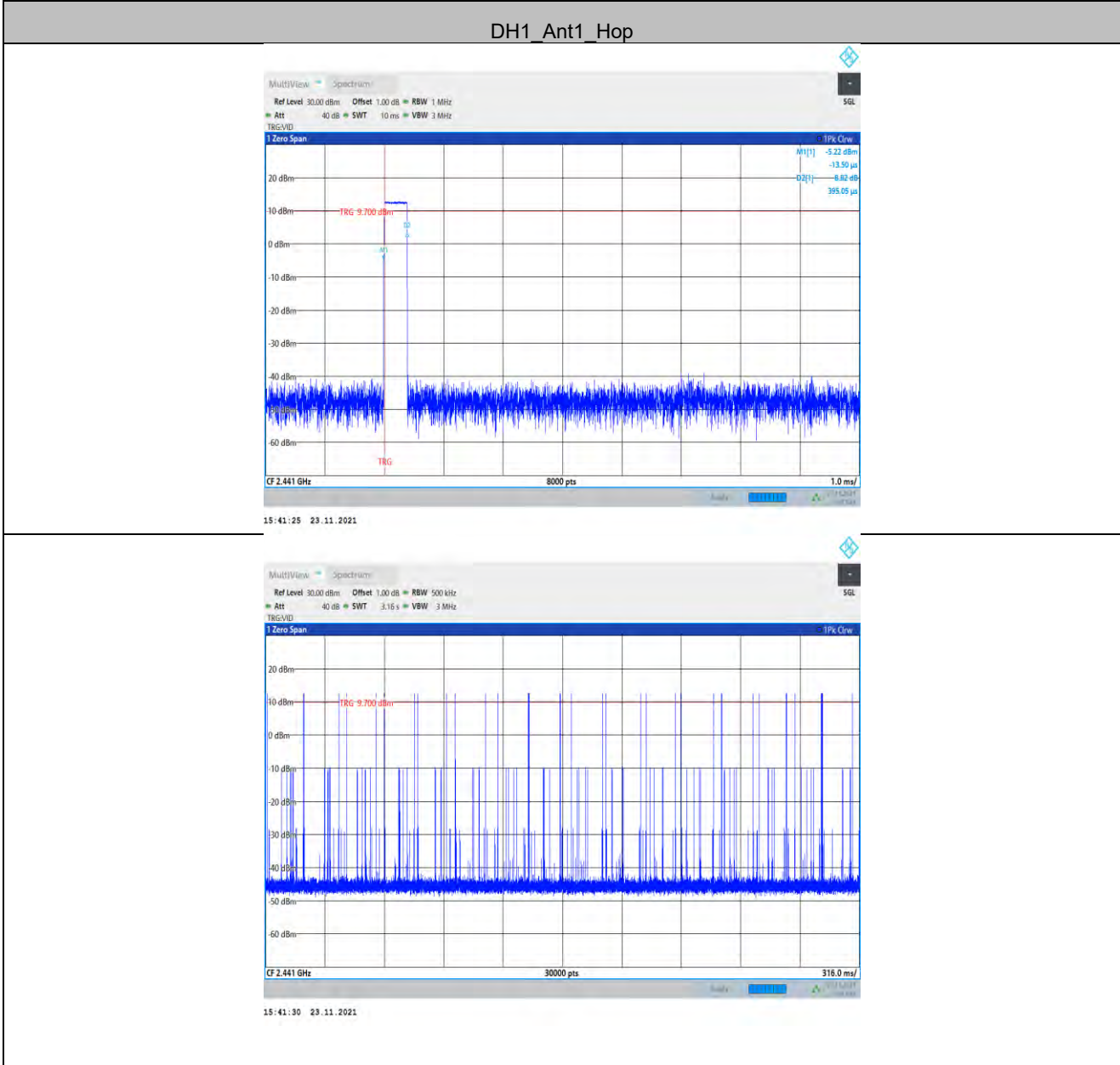


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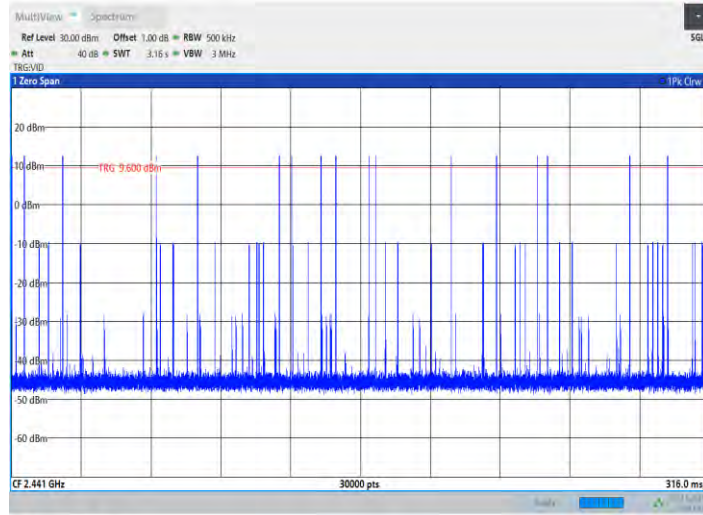
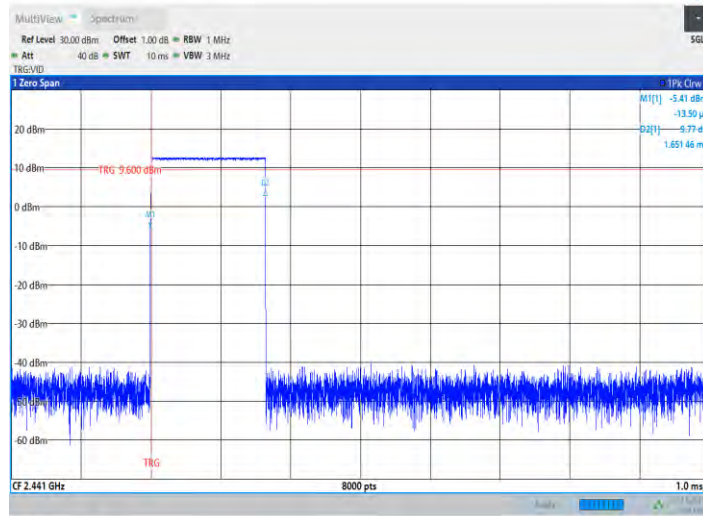


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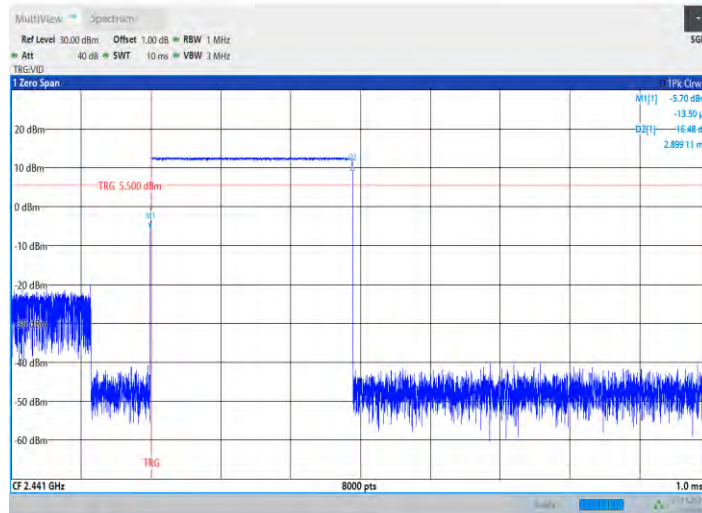
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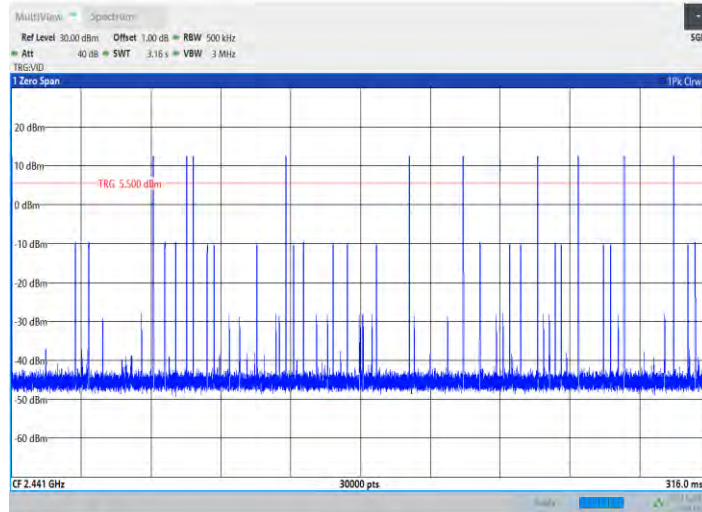
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DH5\_Ant1\_Hop



15:40:56 23.11.2021

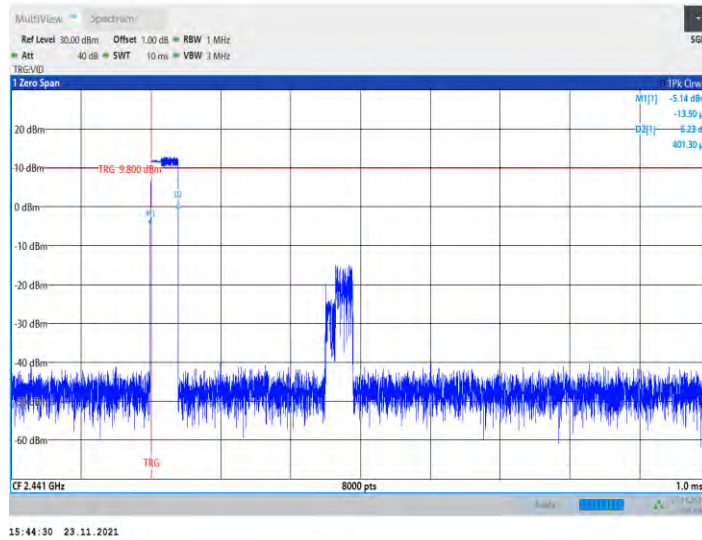


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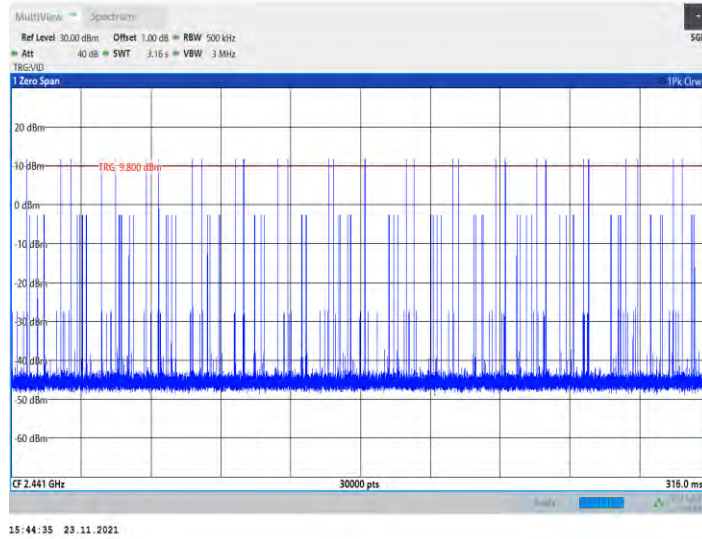


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2DH1\_Ant1\_Hop



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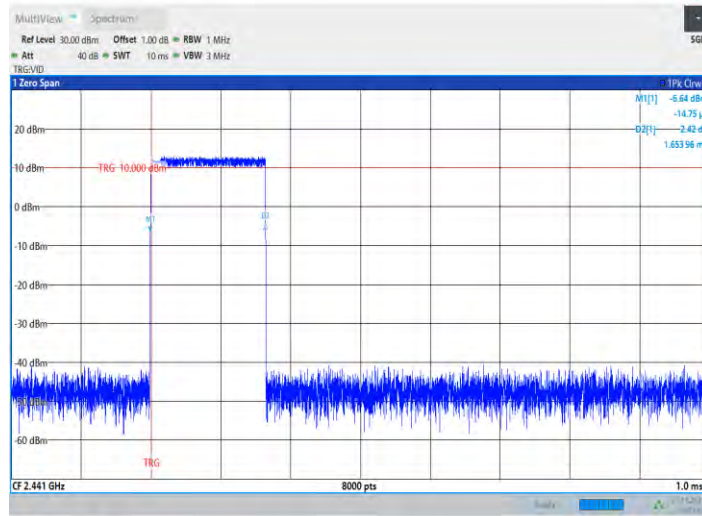


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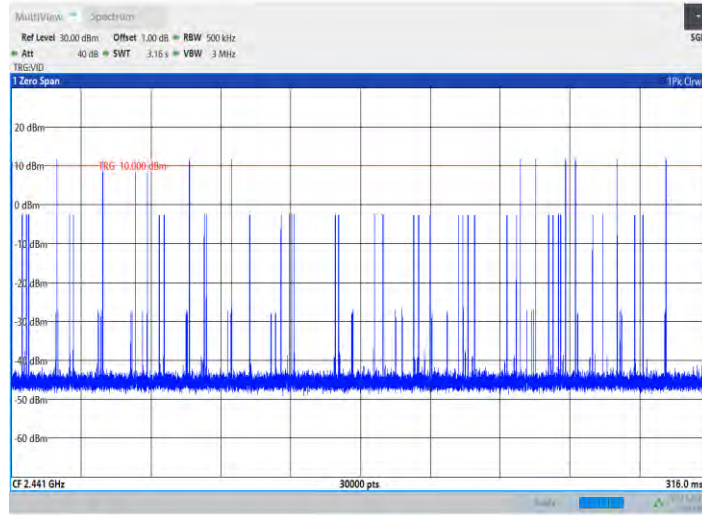


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2DH3\_Ant1\_Hop



15:45:01 23.11.2021



15:45:07 23.11.2021



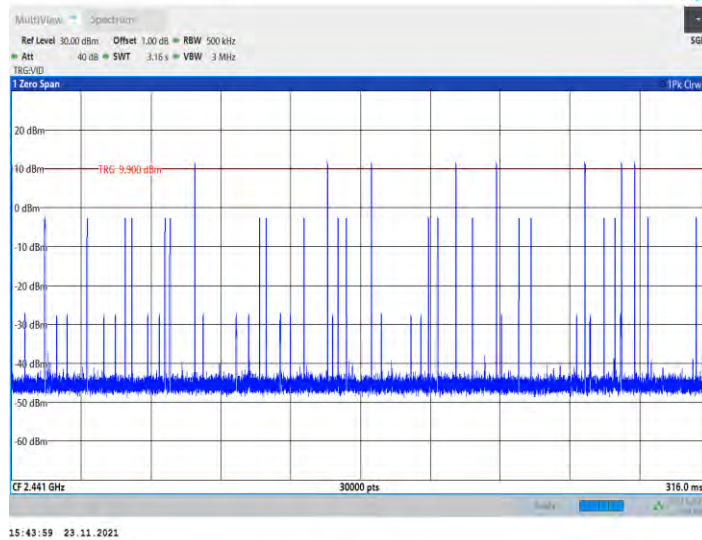
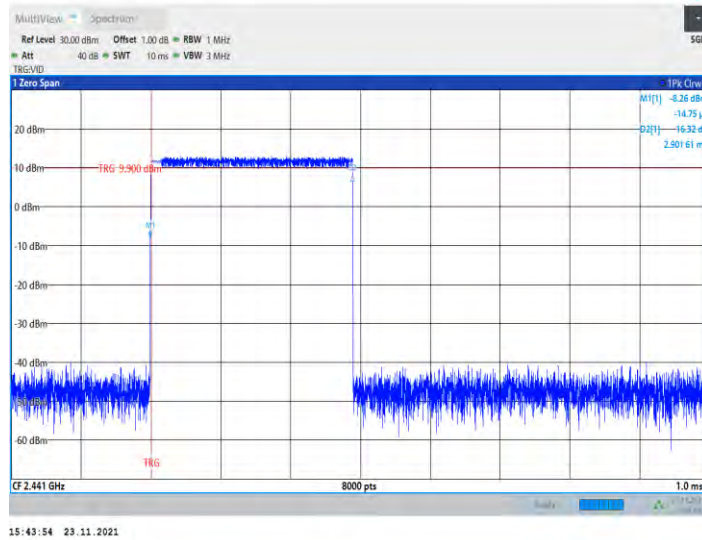
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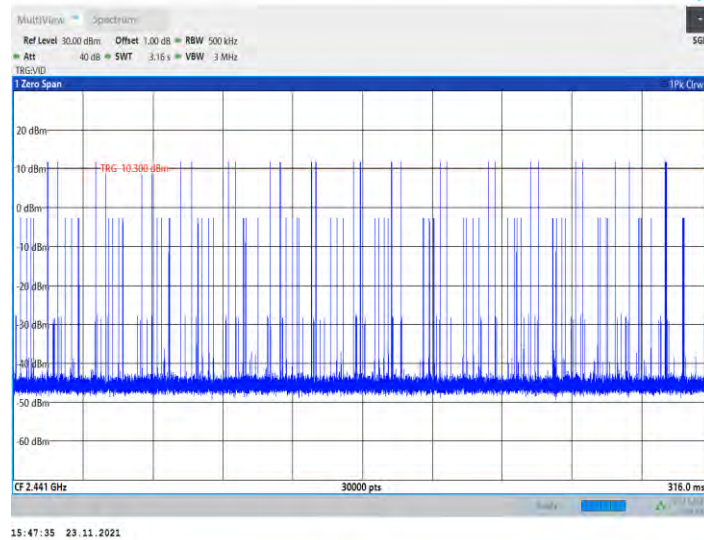
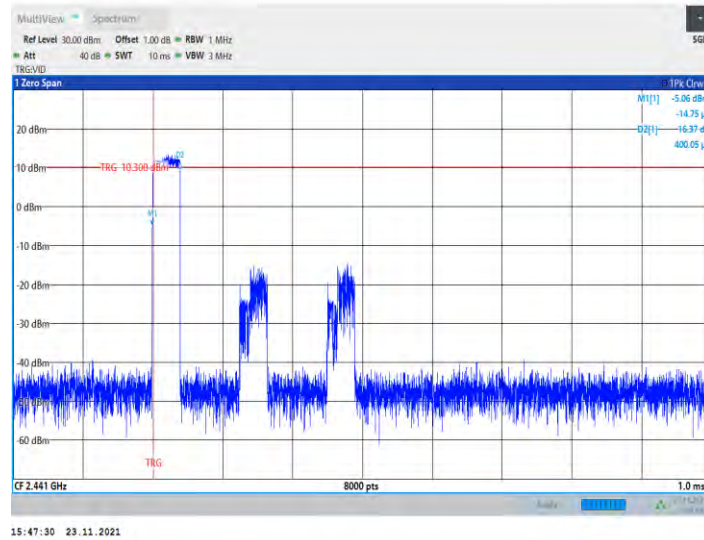
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### 2DH5\_Ant1\_Hop



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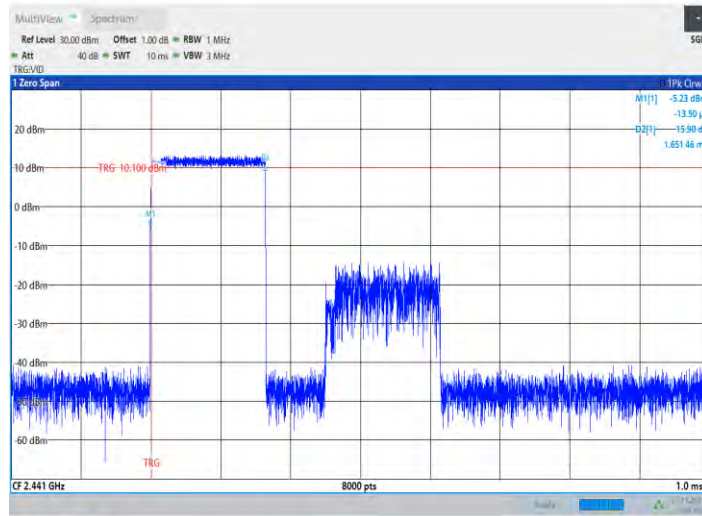
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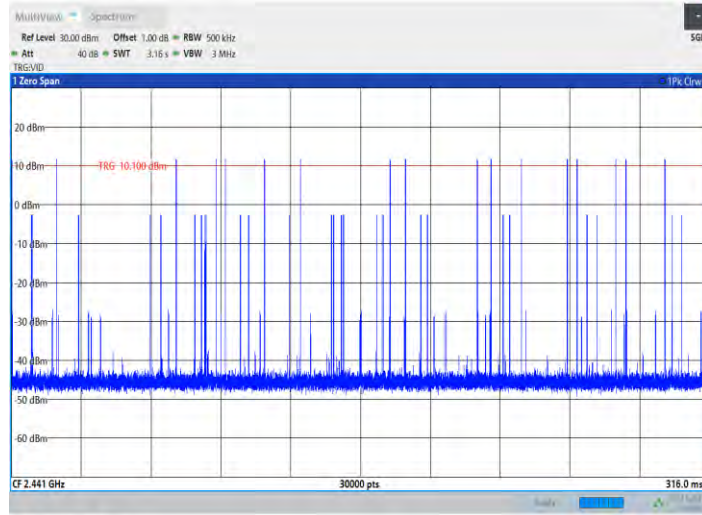
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3DH3\_Ant1\_Hop



15:47:59 23.11.2021

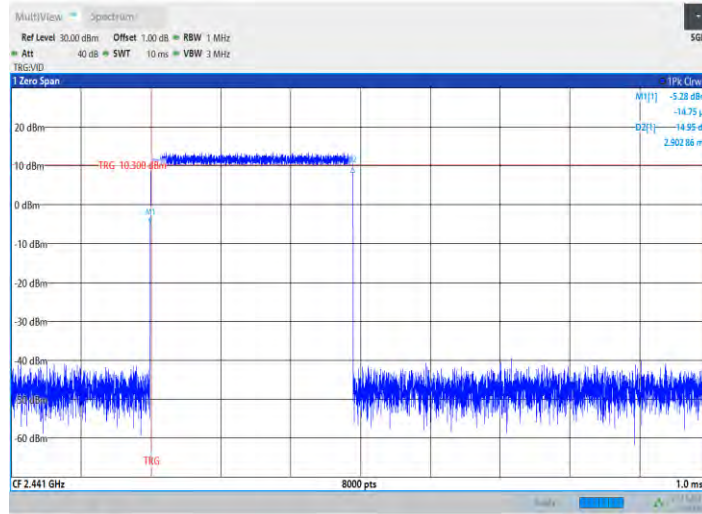


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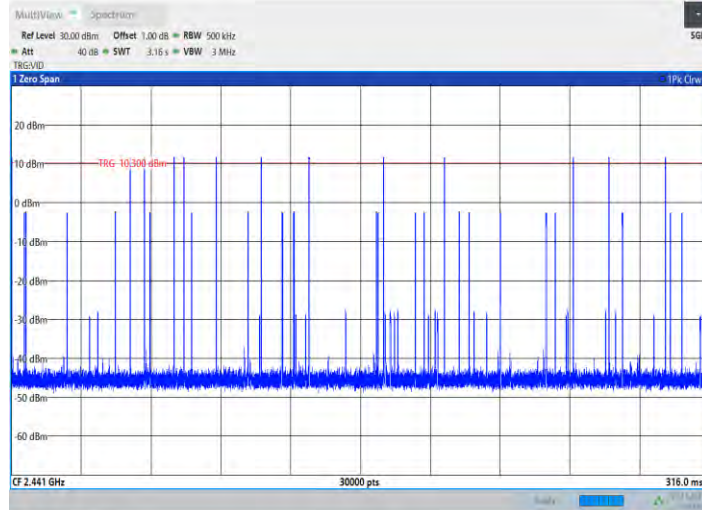


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15:49:02 23.11.2021



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Rev.: 01

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## Number of hopping channels

### Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS



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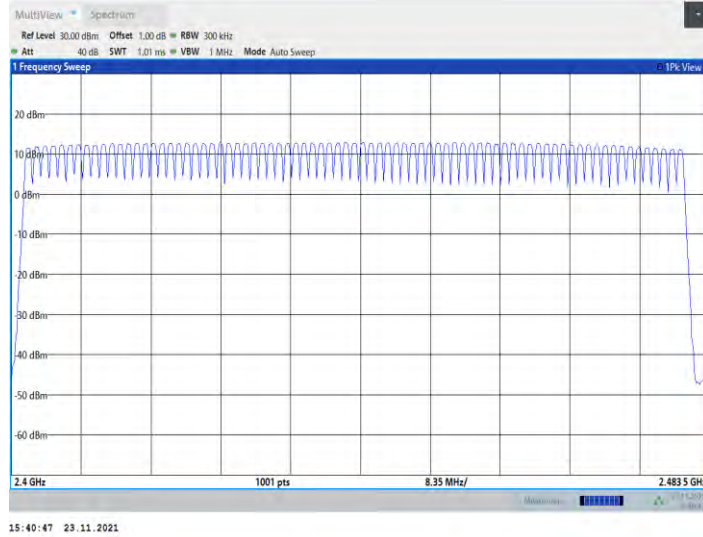
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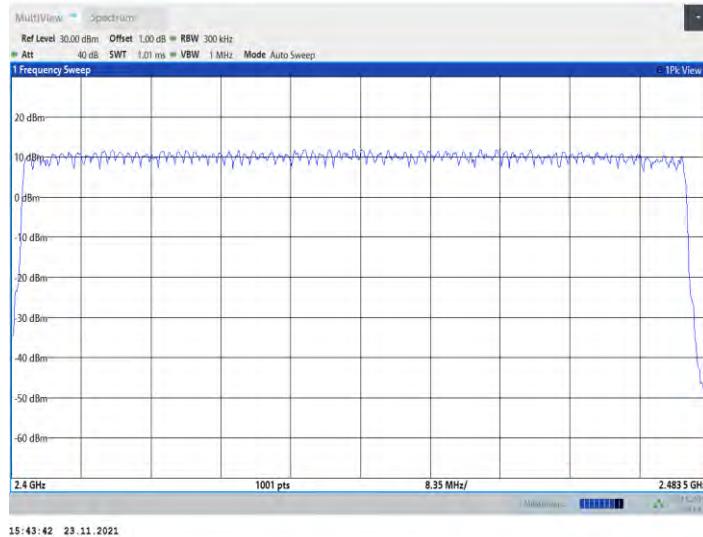
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Test Graphs

DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop

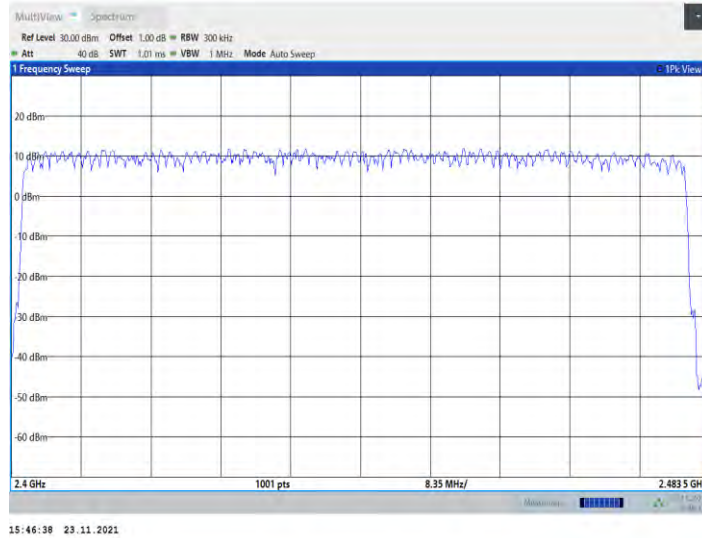


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## Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.26	-45.06	<=-8.74	PASS
		High	2480	10.67	-49.33	<=-9.33	PASS
		Low	Hop_2402	10.92	-49.40	<=-9.08	PASS
		High	Hop_2480	11.20	-49.65	<=-8.8	PASS
2DH5	Ant1	Low	2402	10.28	-39.07	<=-9.72	PASS
		High	2480	9.79	-49.73	<=-10.21	PASS
		Low	Hop_2402	9.00	-49.40	<=-11	PASS
		High	Hop_2480	10.29	-49.33	<=-9.71	PASS
3DH5	Ant1	Low	2402	9.94	-43.12	<=-10.06	PASS
		High	2480	9.82	-49.31	<=-10.18	PASS
		Low	Hop_2402	9.80	-49.50	<=-10.2	PASS
		High	Hop_2480	8.83	-49.41	<=-11.17	PASS



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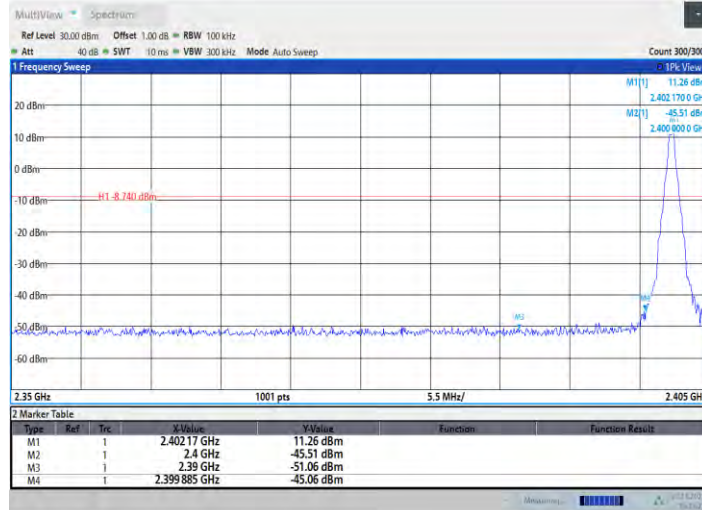
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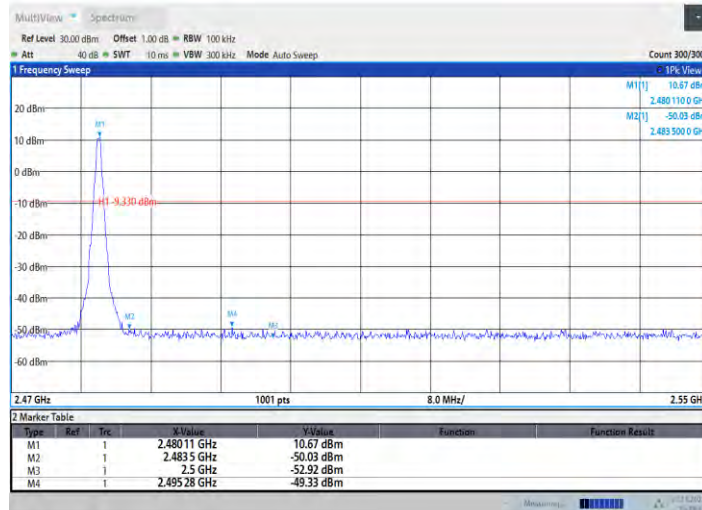
Test Graphs

DH5\_Ant1\_Low\_2402



15:25:22 23.11.2021

DH5\_Ant1\_High\_2480



15:28:35 23.11.2021



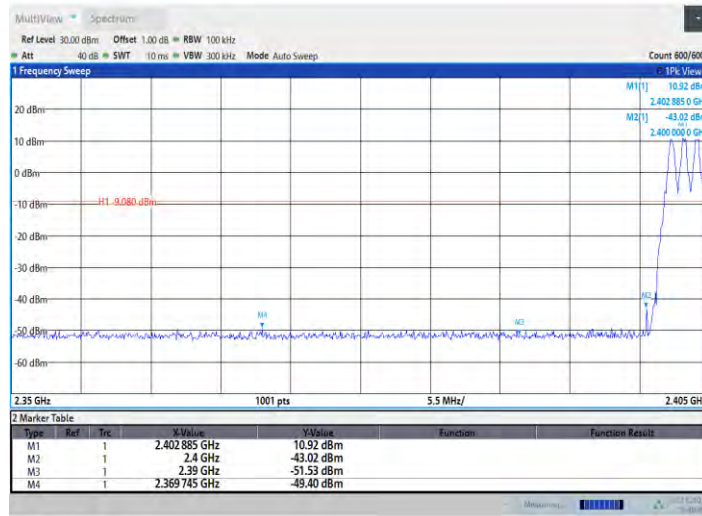
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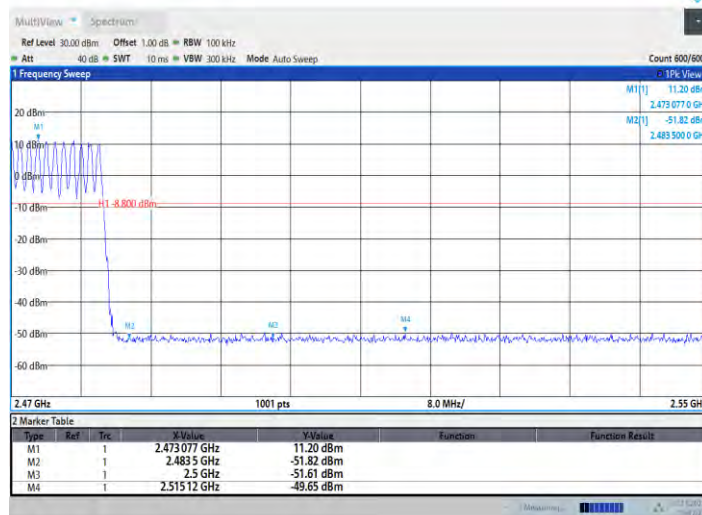
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DH5\_Ant1\_Low\_Hop\_2402



15:40:01 23.11.2021

DH5\_Ant1\_High\_Hop\_2480



15:42:22 23.11.2021



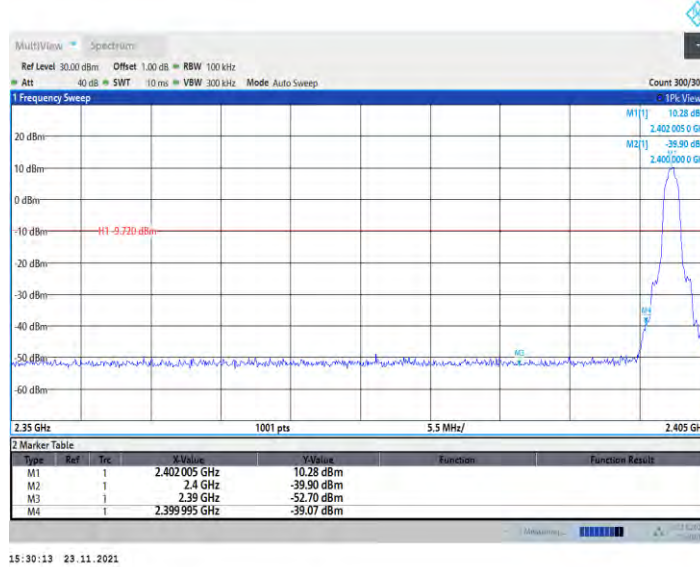
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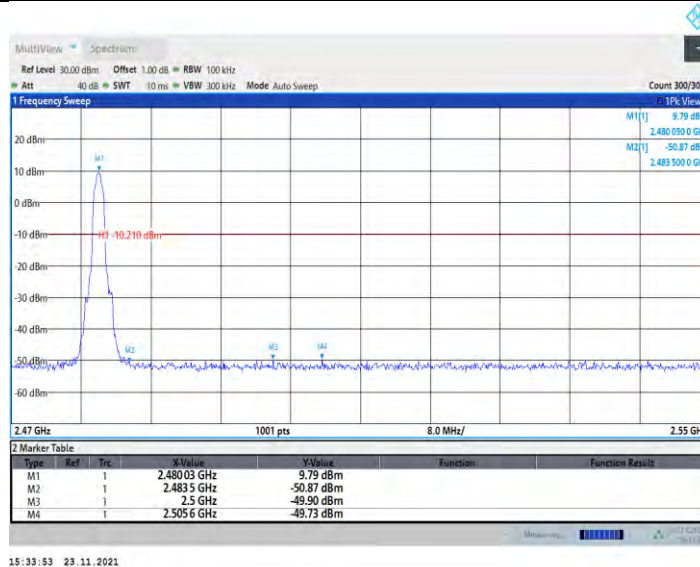
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2DH5\_Ant1\_Low\_2402



2DH5\_Ant1\_High\_2480



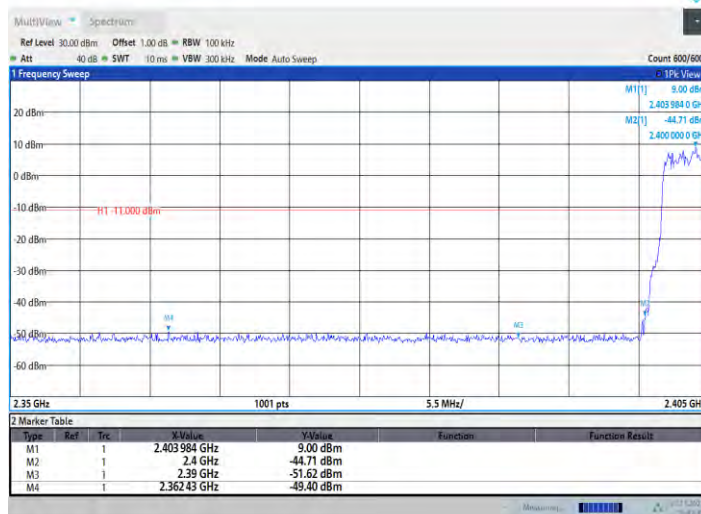
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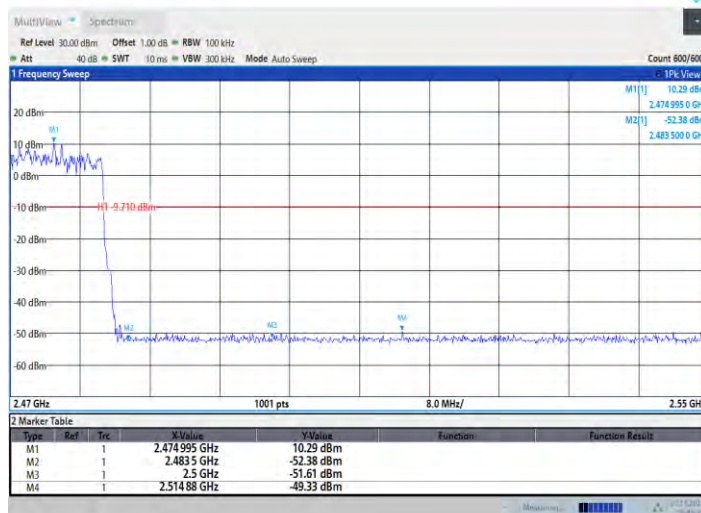
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2DH5\_Ant1\_Low\_Hop\_2402



15:42:49 23.11.2021

2DH5\_Ant1\_High\_Hop\_2480



15:45:36 23.11.2021

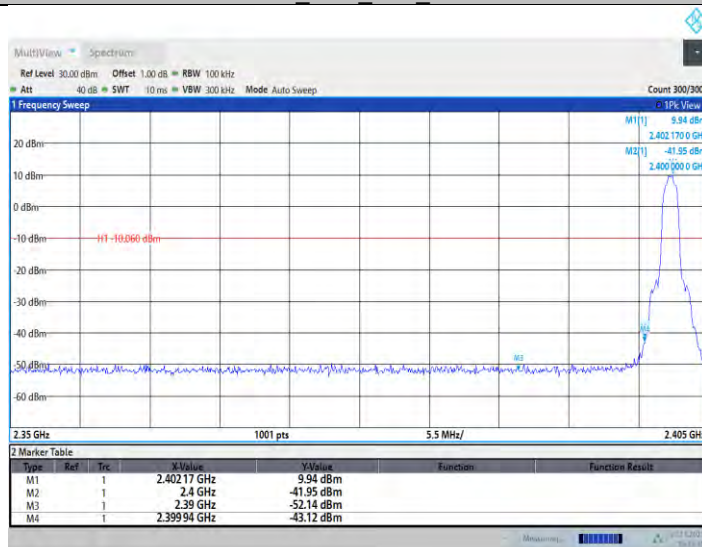


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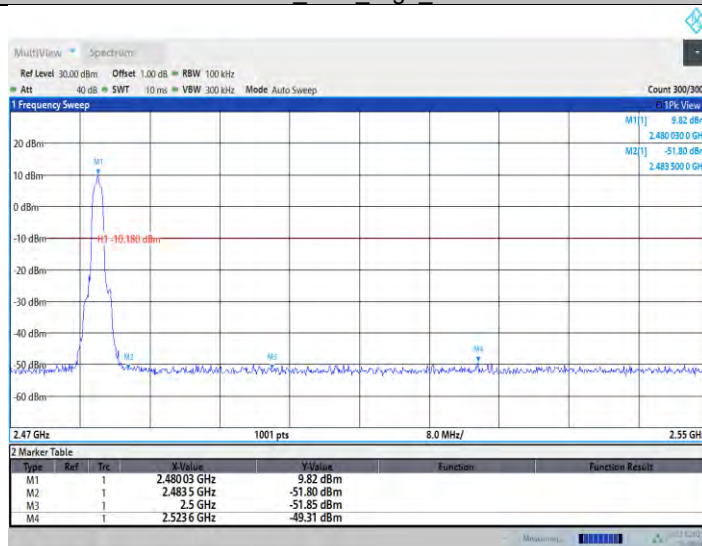
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3DH5\_Ant1\_Low\_2402



15:35:36 23.11.2021

3DH5\_Ant1\_High\_2480

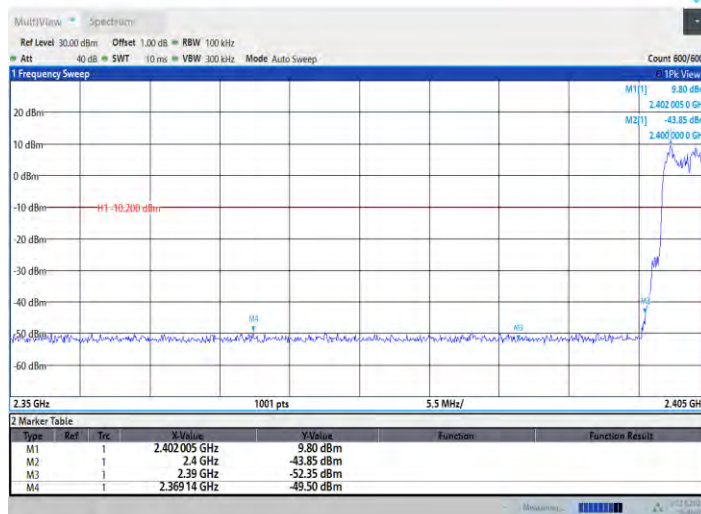


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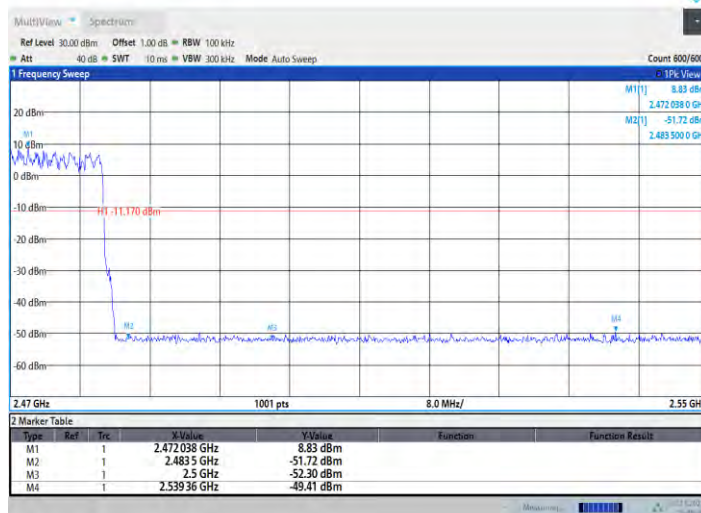
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3DH5\_Ant1\_Low\_Hop\_2402



15:46:02 23.11.2021

3DH5\_Ant1\_High\_Hop\_2480



15:48:30 23.11.2021



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### Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	11.23	11.23	---	PASS
			30~1000	11.23	-62.55	<=-8.77	PASS
			1000~26500	11.23	-46.94	<=-8.77	PASS
		2441	Reference	12.36	12.36	---	PASS
			30~1000	12.36	-62.56	<=-7.64	PASS
			1000~26500	12.36	-48.83	<=-7.64	PASS
		2480	Reference	10.65	10.65	---	PASS
			30~1000	10.65	-63.13	<=-9.35	PASS
			1000~26500	10.65	-44.05	<=-9.35	PASS
2DH5	Ant1	2402	Reference	10.31	10.31	---	PASS
			30~1000	10.31	-62.88	<=-9.69	PASS
			1000~26500	10.31	-39.9	<=-9.69	PASS
		2441	Reference	11.49	11.49	---	PASS
			30~1000	11.49	-62.77	<=-8.51	PASS
			1000~26500	11.49	-45.25	<=-8.51	PASS
		2480	Reference	9.77	9.77	---	PASS
			30~1000	9.77	-63.08	<=-10.23	PASS
			1000~26500	9.77	-46.98	<=-10.23	PASS
3DH5	Ant1	2402	Reference	10.40	10.40	---	PASS
			30~1000	10.40	-62.82	<=-9.6	PASS
			1000~26500	10.40	-46.17	<=-9.6	PASS
		2441	Reference	11.53	11.53	---	PASS
			30~1000	11.53	-63	<=-8.47	PASS
			1000~26500	11.53	-52.17	<=-8.47	PASS
		2480	Reference	9.76	9.76	---	PASS
			30~1000	9.76	-62.98	<=-10.24	PASS
			1000~26500	9.76	-47.69	<=-10.24	PASS



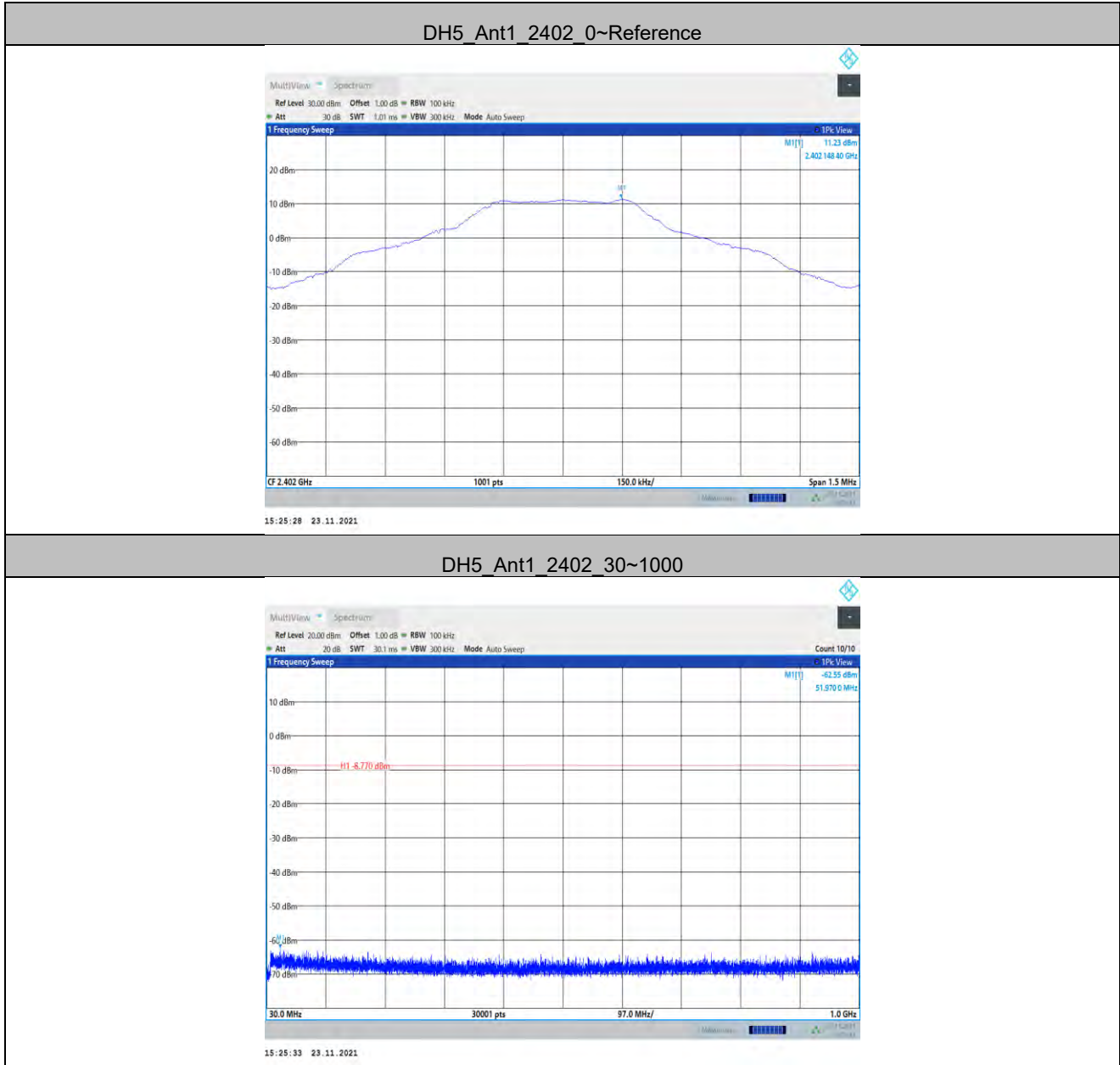
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Test Graphs

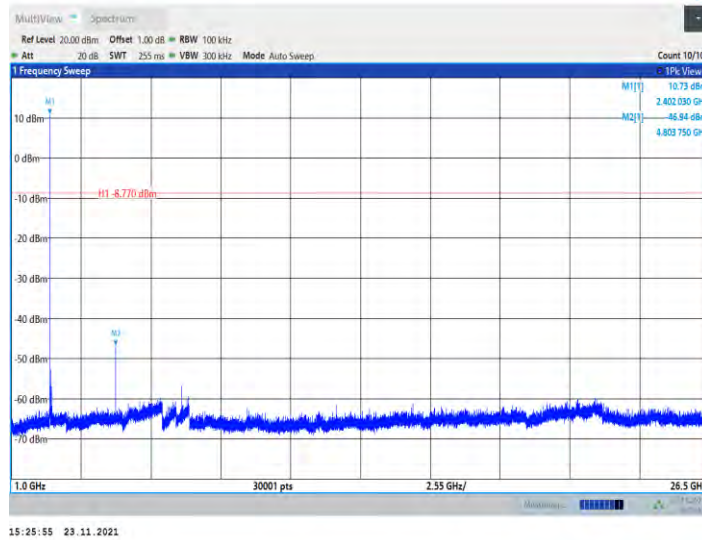


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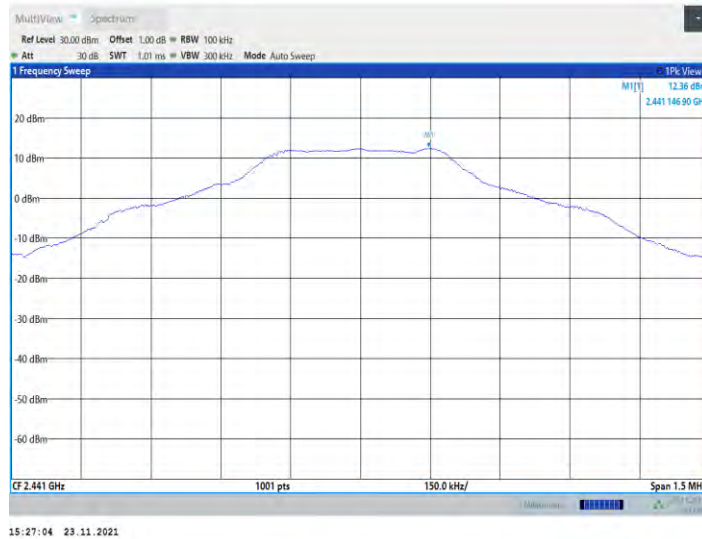
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DH5\_Ant1\_2402\_1000~26500



DH5\_Ant1\_2441\_0~Reference

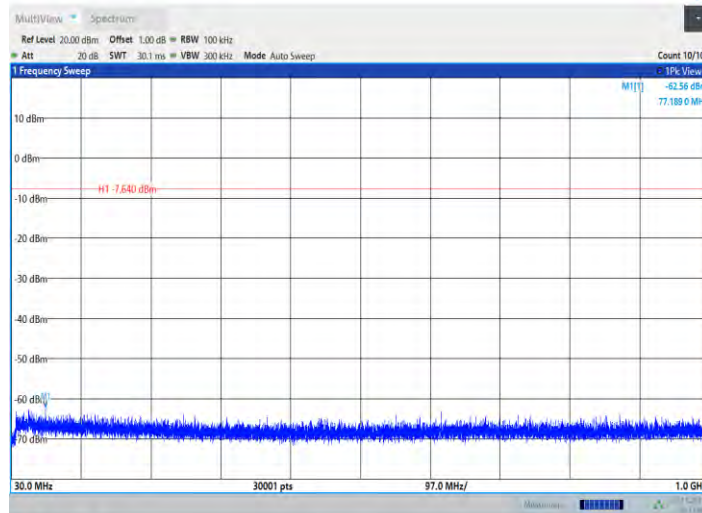


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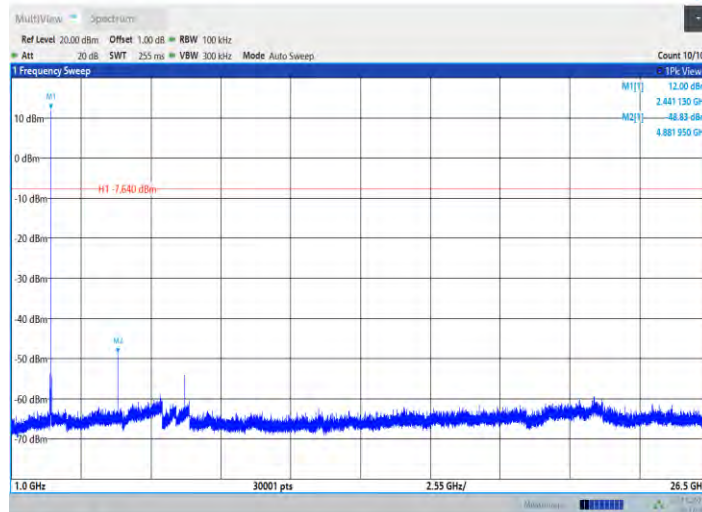
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DH5\_Ant1\_2441\_30~1000



15:27:09 23.11.2021

DH5\_Ant1\_2441\_1000~26500



15:27:31 23.11.2021



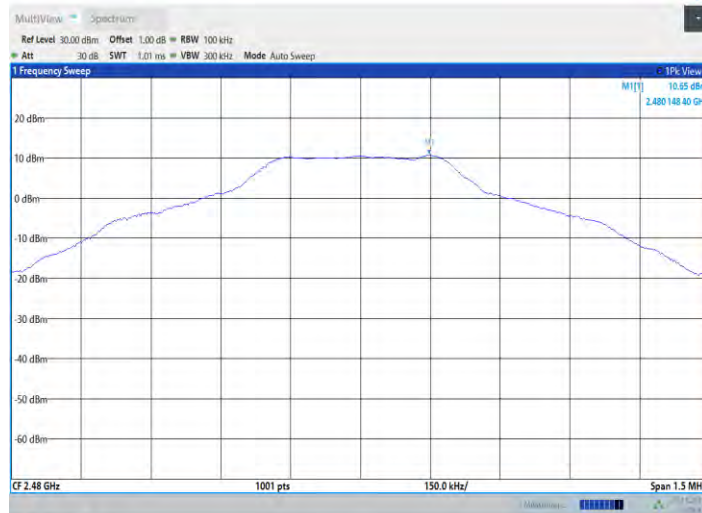
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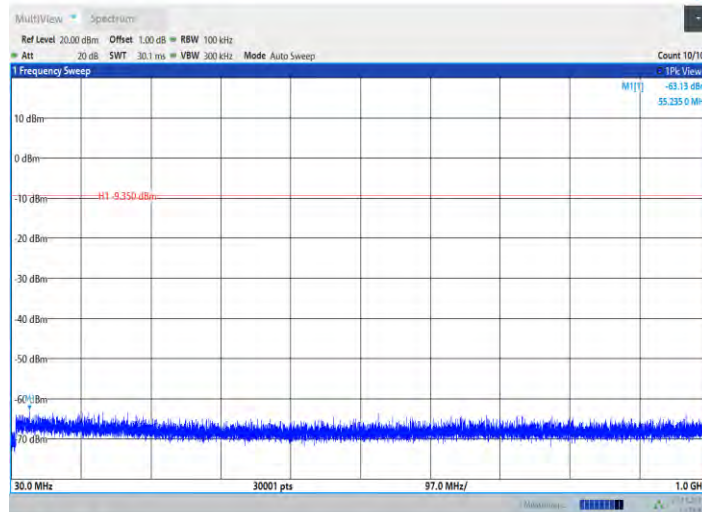


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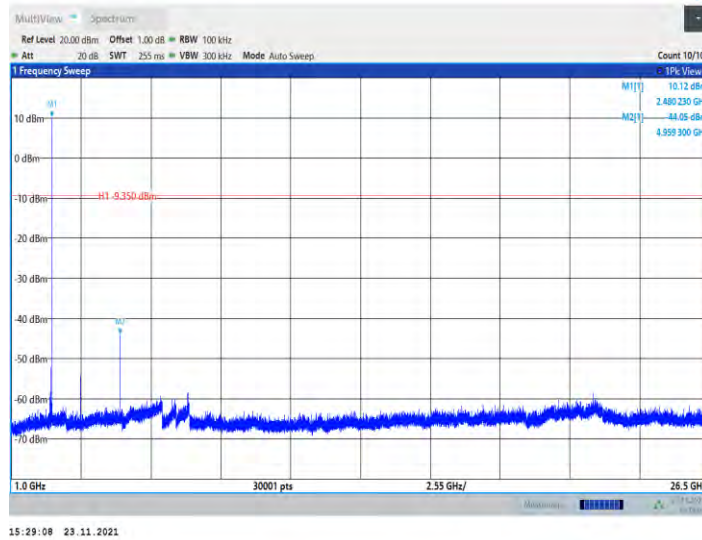
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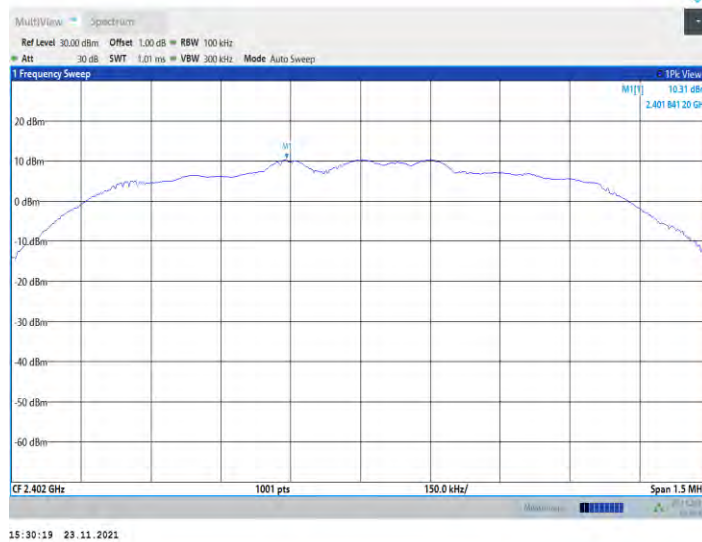
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference

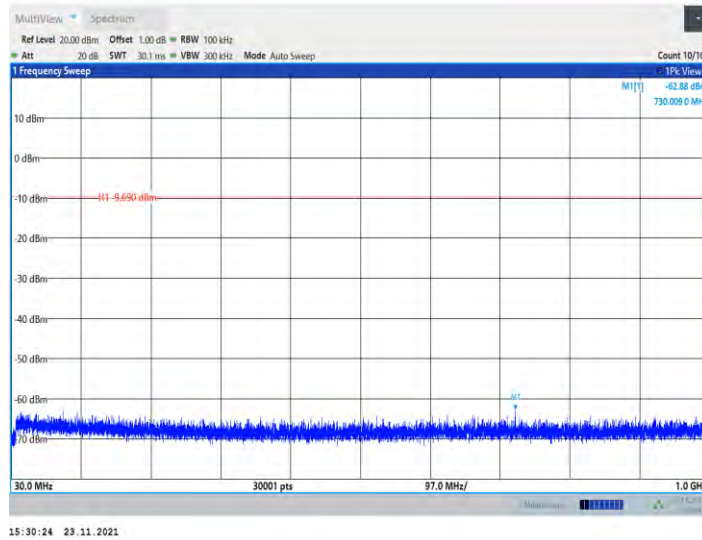


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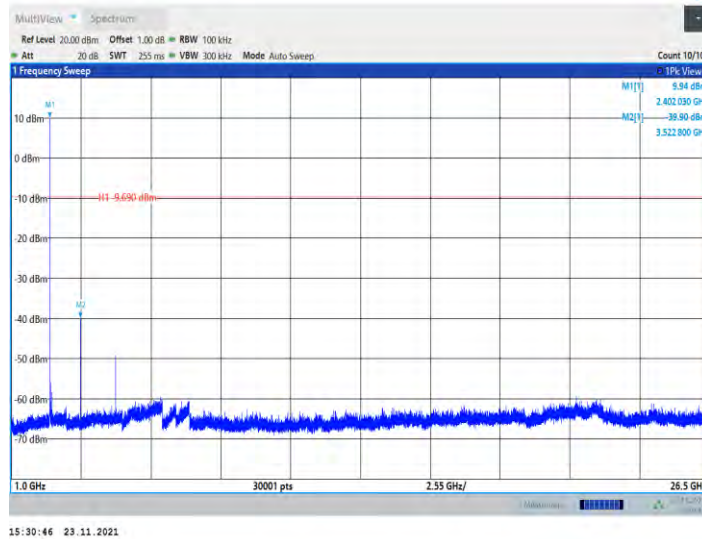
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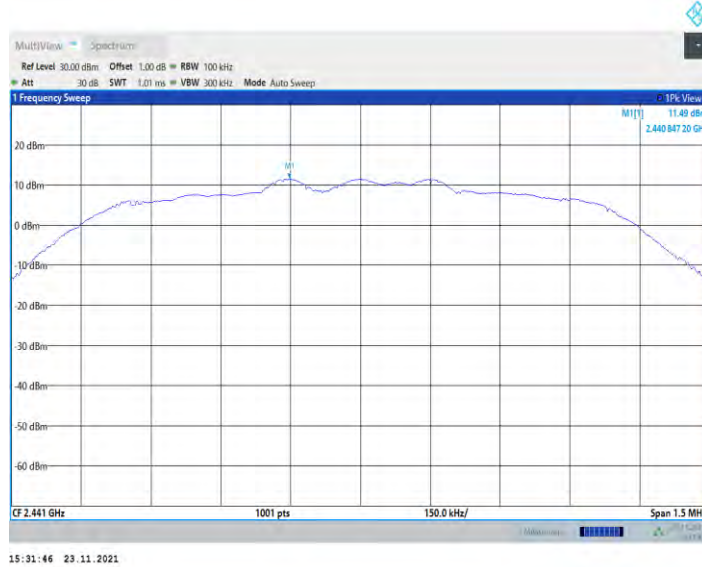


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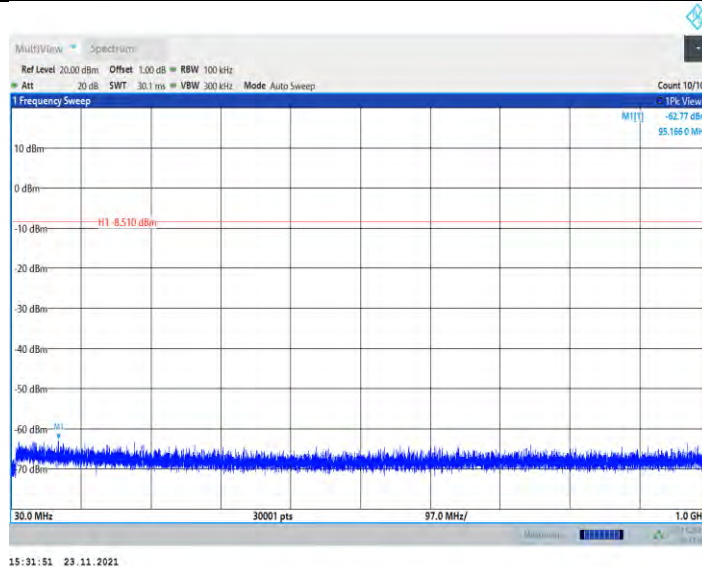
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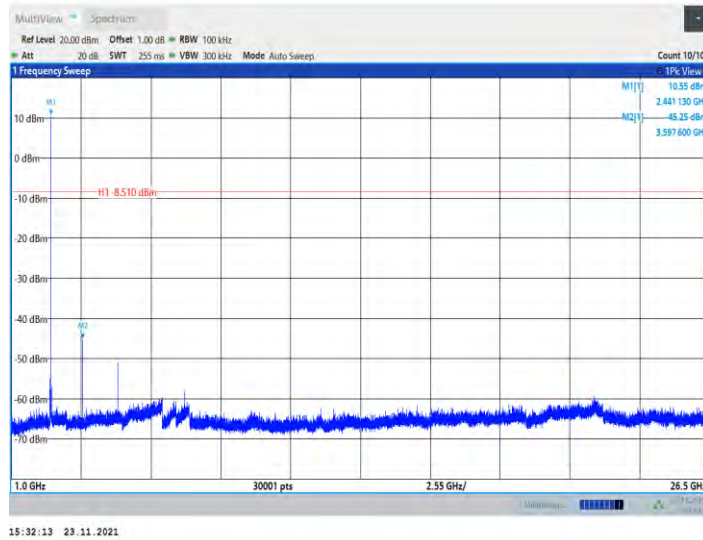


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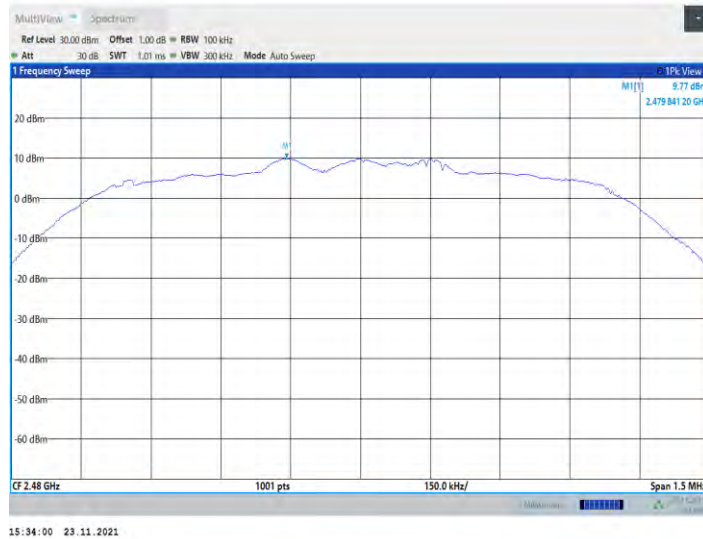
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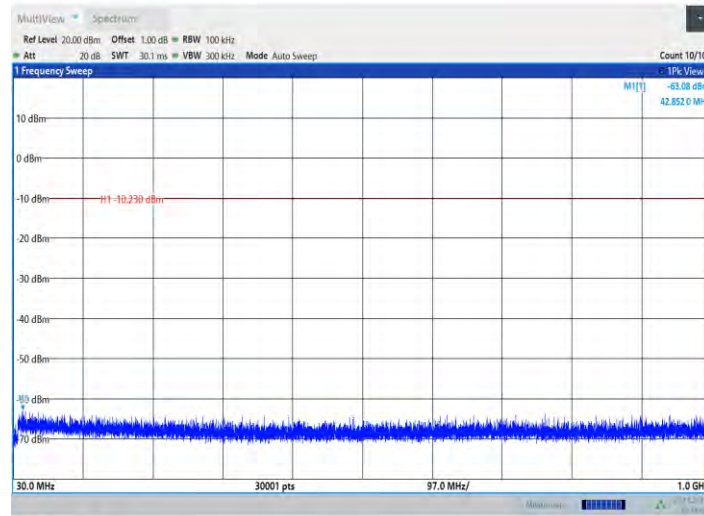


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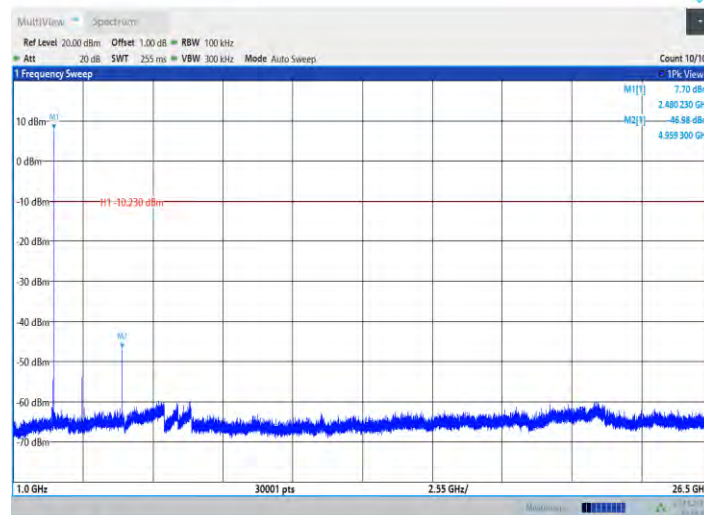
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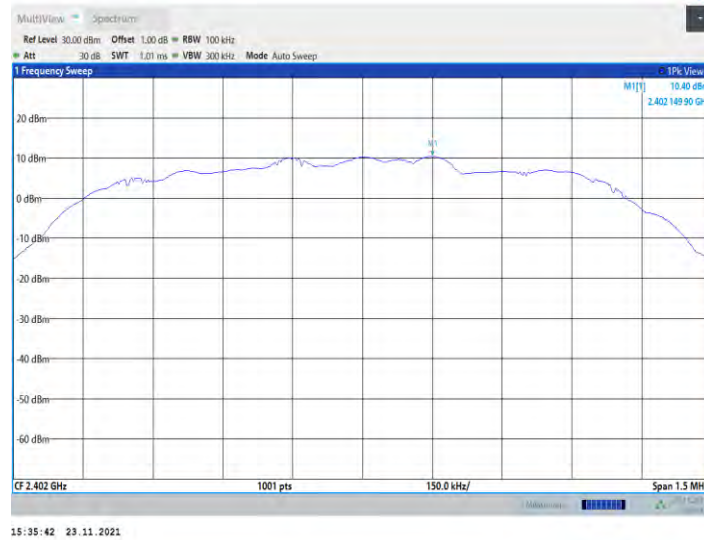
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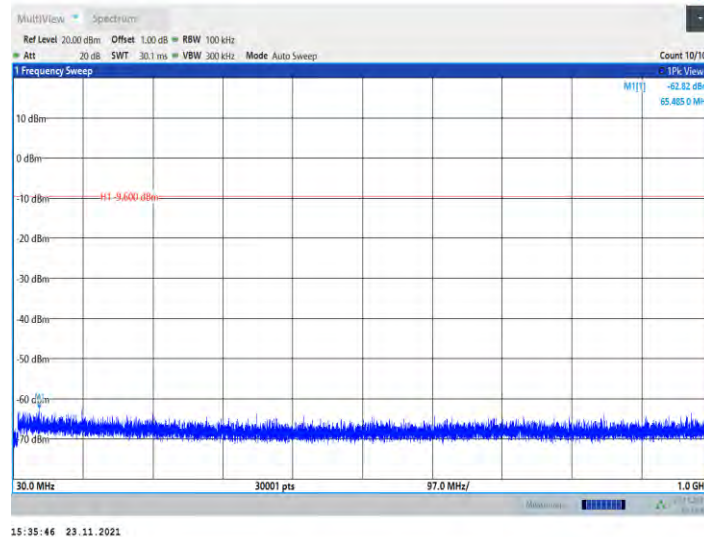
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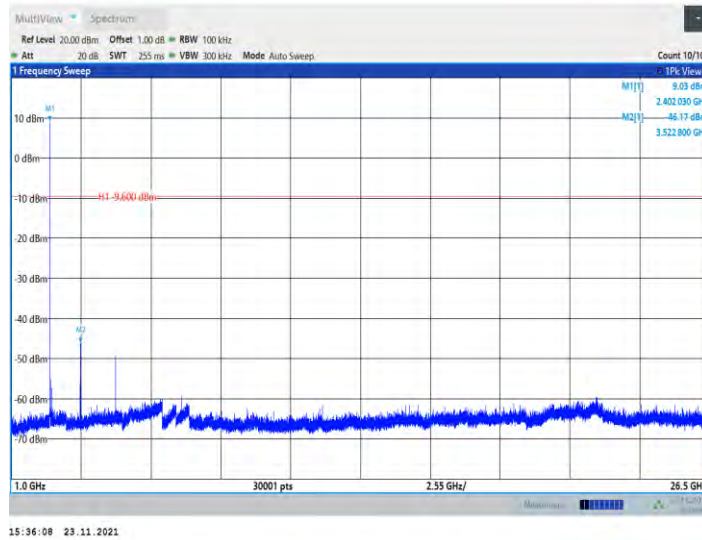


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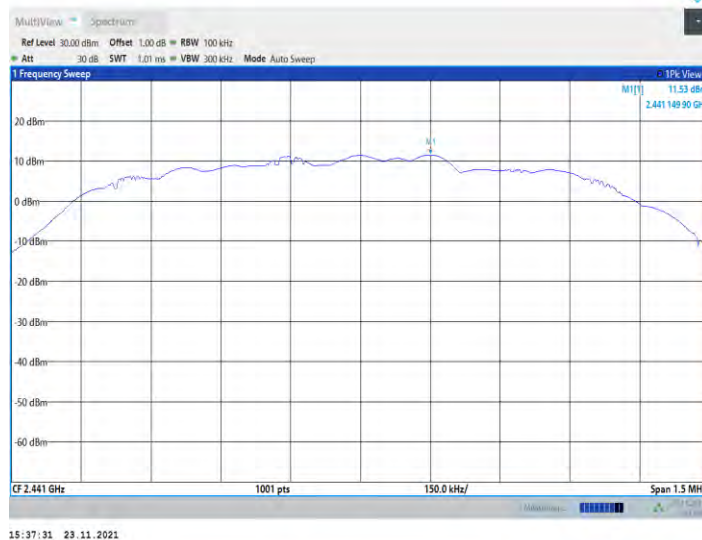
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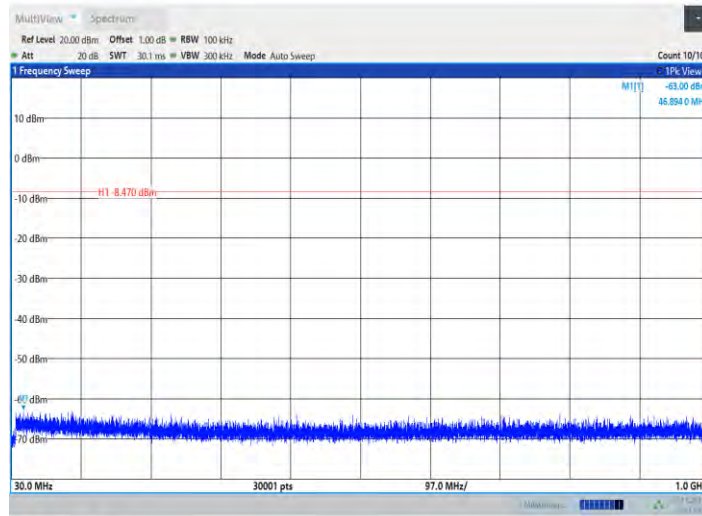
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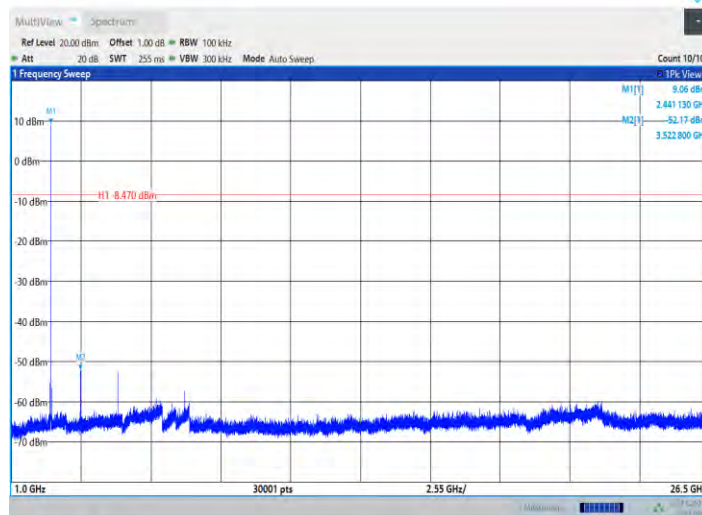
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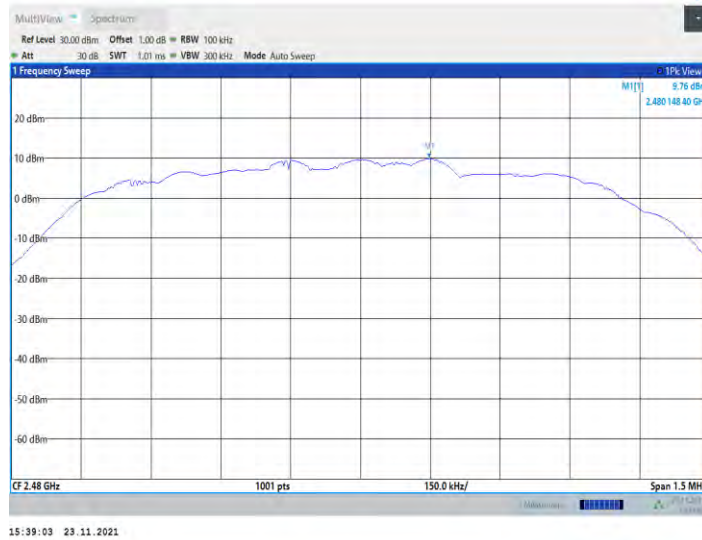


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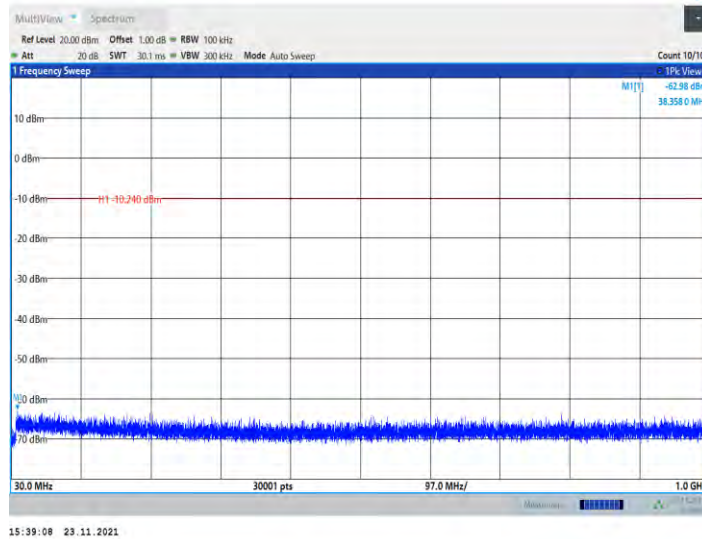
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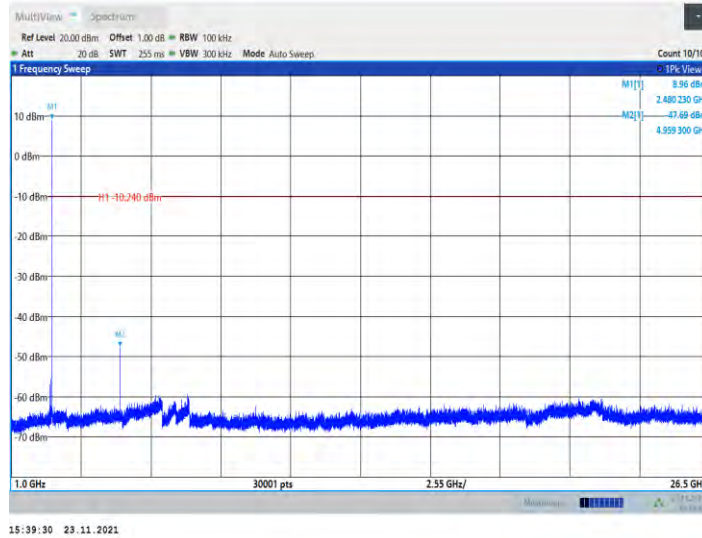


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## Duty Cycle Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2441	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2480	2.90	3.75	0.7733	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2441	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2480	2.90	3.75	0.7733	77.33	1.12	---	PASS
3DH5	Ant1	2402	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2441	2.90	3.75	0.7733	77.33	1.12	---	PASS
		2480	2.90	3.75	0.7733	77.33	1.12	---	PASS



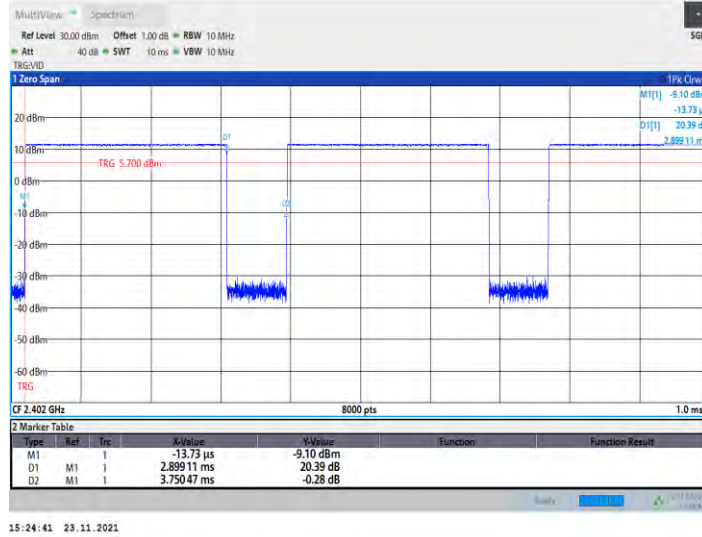
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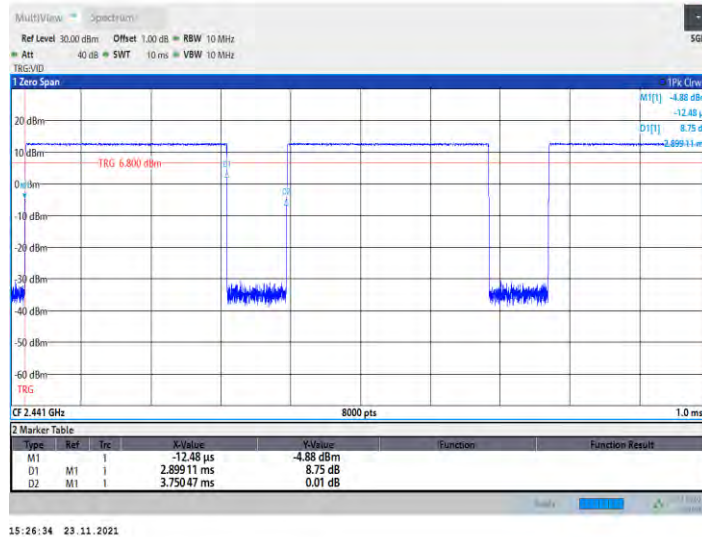
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Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441

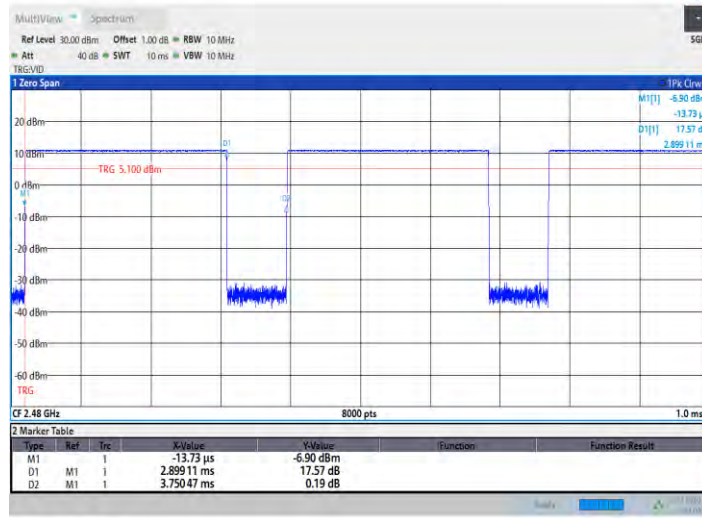


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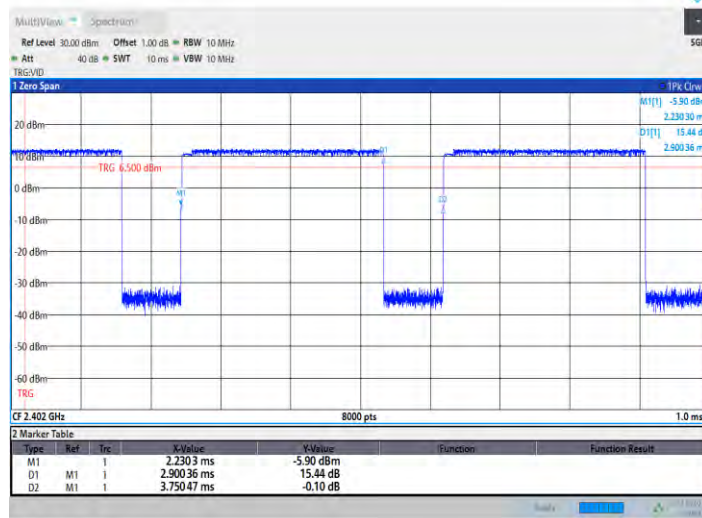
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DH5\_Ant1\_2480



15:27:55 23.11.2021

2DH5\_Ant1\_2402



15:29:34 23.11.2021

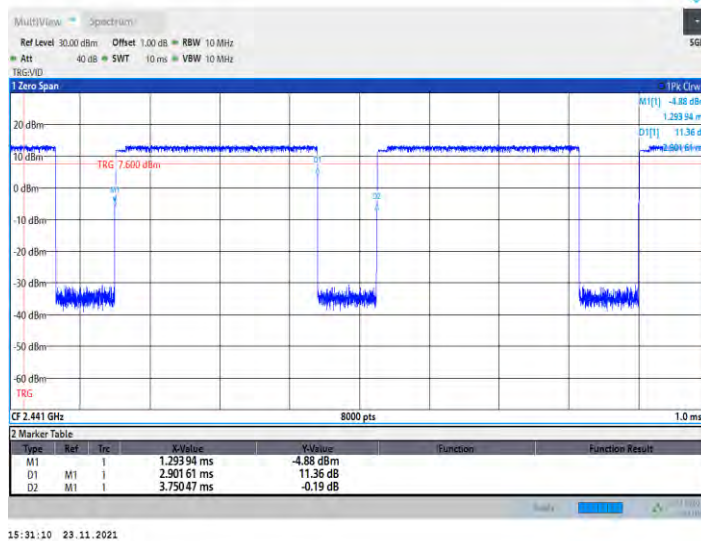


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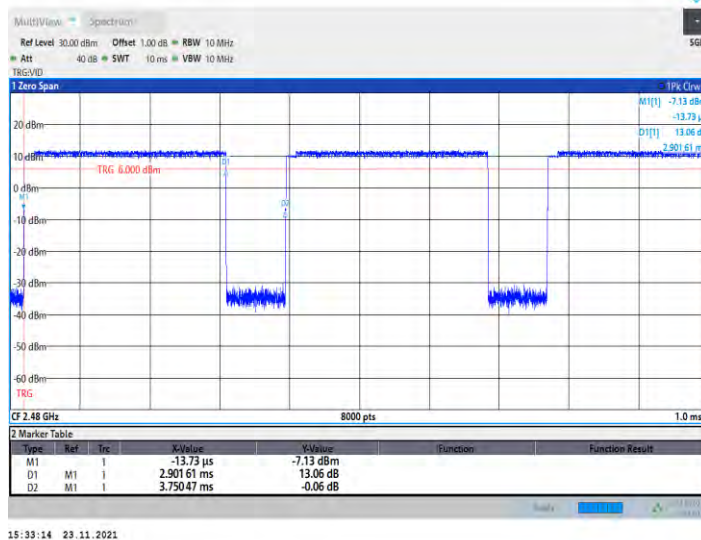
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2DH5\_Ant1\_2441



2DH5\_Ant1\_2480

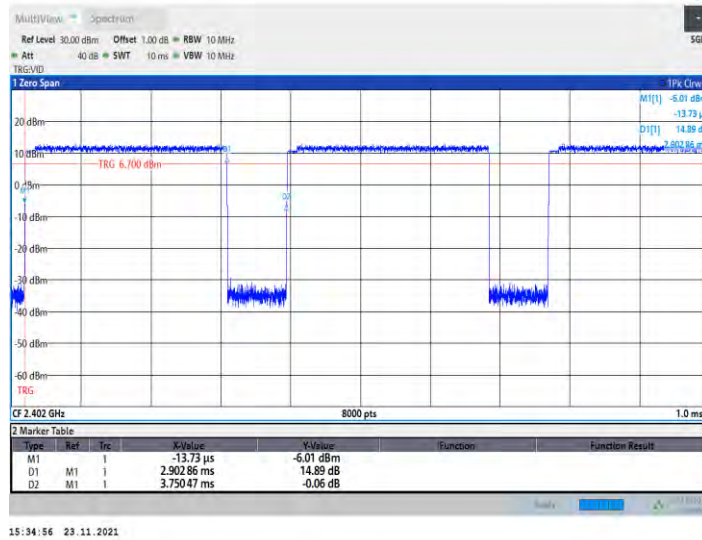


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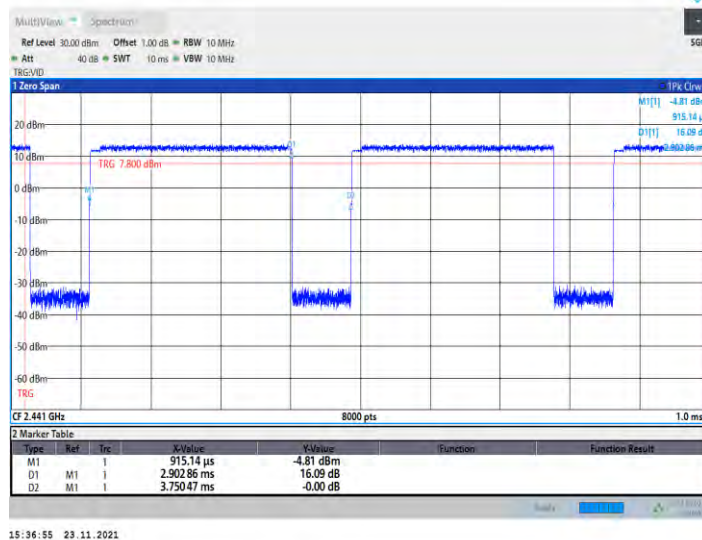
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3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



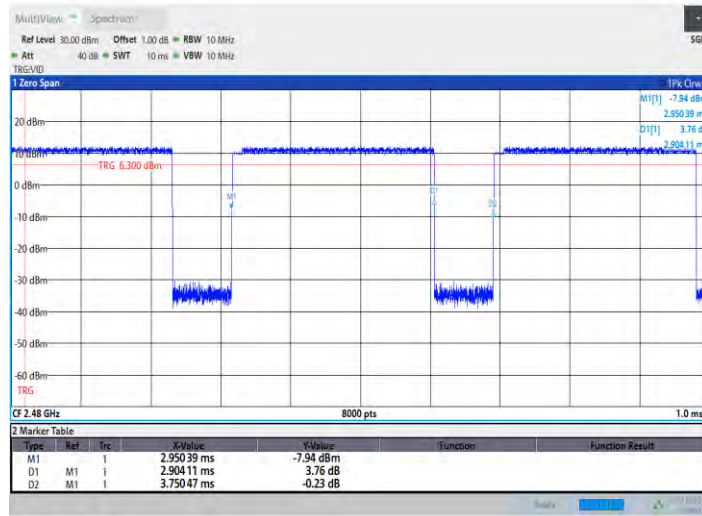
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3DH5\_Ant1\_2480



15:38:17 23.11.2021



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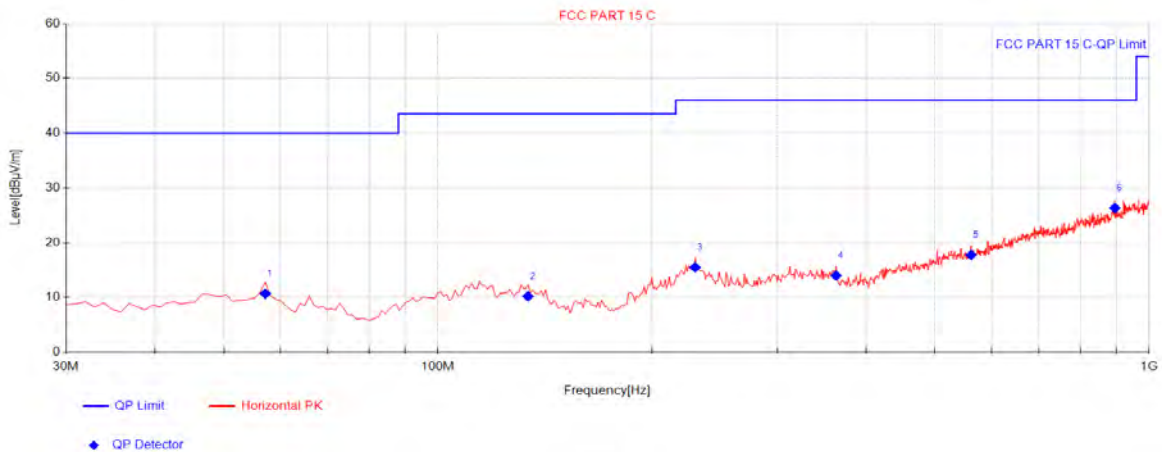
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: GFSK(DH5\_Channel 78)



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.1872	32.52	-21.82	10.70	40.00	29.30	163	3	Horizontal
2	133.8939	32.56	-22.34	10.22	43.50	33.28	152	12	Horizontal
3	230.02	34.29	-18.79	15.50	46.00	30.50	241	97	Horizontal
4	363.043	29.88	-15.87	14.01	46.00	31.99	145	48	Horizontal
5	562.0921	29.97	-12.20	17.77	46.00	28.23	211	84	Horizontal
6	895.1351	30.9	-4.56	26.34	46.00	19.66	182	317	Horizontal

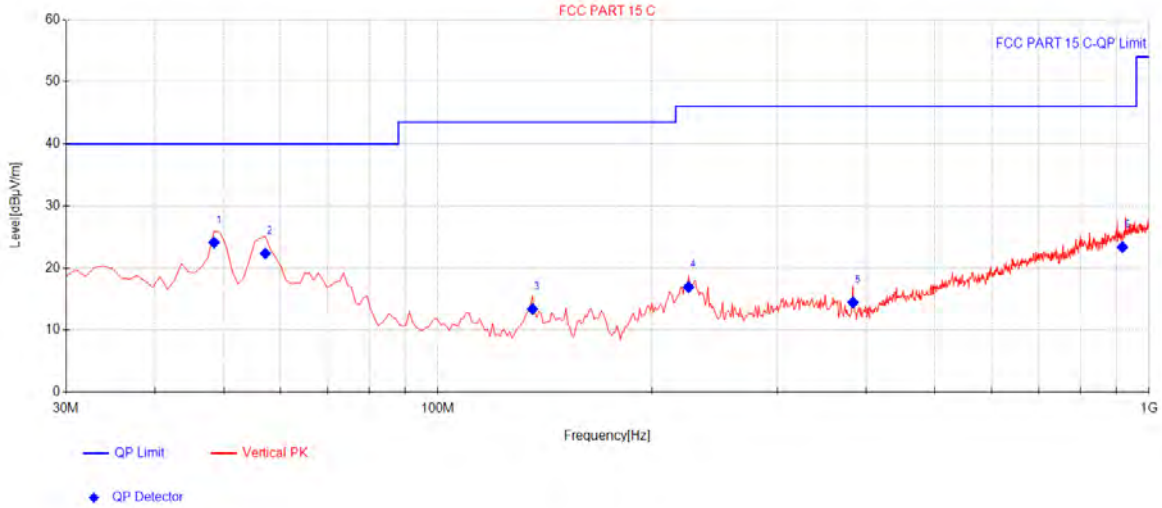


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4484	44.52	-20.40	24.12	40.00	15.88	163	164	Vertical
2	57.1872	44.16	-21.82	22.34	40.00	17.66	152	209	Vertical
3	135.8358	35.86	-22.47	13.39	43.50	30.11	111	316	Vertical
4	225.1652	35.78	-18.85	16.93	46.00	29.07	102	0	Vertical
5	383.4334	30.12	-15.66	14.46	46.00	31.54	151	325	Vertical
6	917.4675	27.88	-4.51	23.37	46.00	22.63	108	83	Vertical



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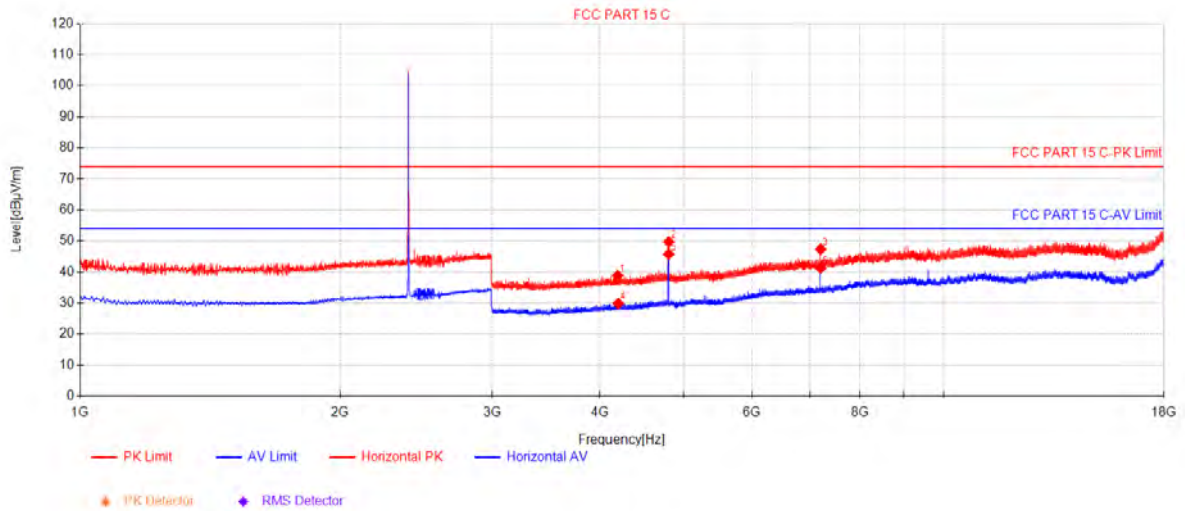
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### Transmitter emission above 1GHz

Worst case Mode: GFSK

Channel 00



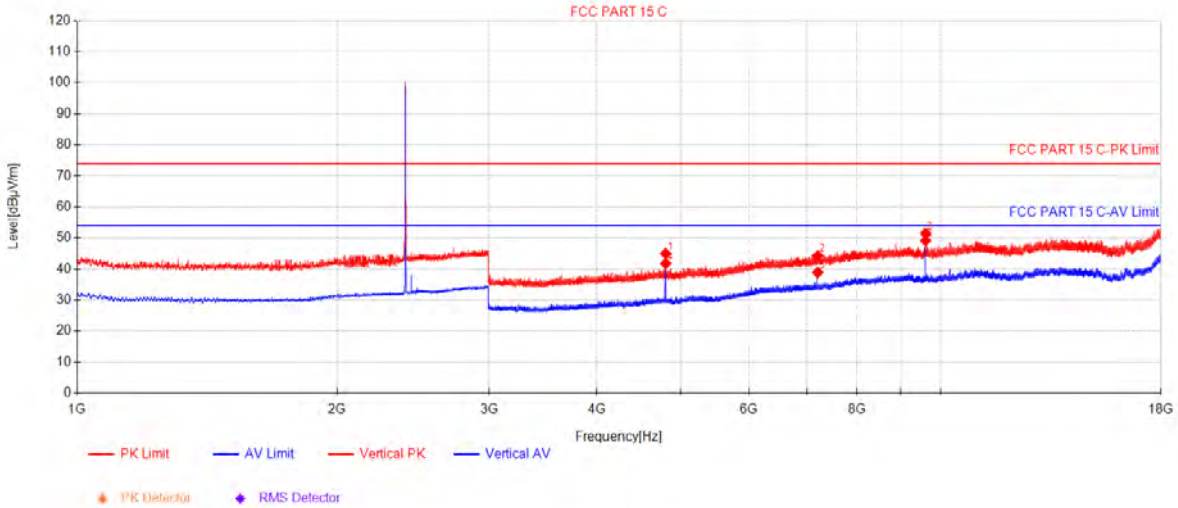
Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4192.5	52.92	-14.11	38.81	74.00	35.19	185	340	Horizontal
2	4804	62.06	-12.33	49.73	74.00	24.27	216	42	Horizontal
3	7206	53.28	-5.91	47.37	74.00	26.63	346	141	Horizontal
4	4200.5	43.96	-14.10	29.86	54.00	24.14	163	91	Horizontal
5	4804	58.12	-12.33	45.79	54.00	8.21	167	42	Horizontal
6	7206	47.21	-5.91	41.30	54.00	12.70	175	171	Horizontal



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Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	57.30	-12.33	44.97	74.00	29.03	185	301	Vertical
2	7206	50.15	-5.91	44.24	74.00	29.76	325	221	Vertical
3	9608	51.00	0.49	51.49	74.00	22.51	185	301	Vertical
4	4804	54.11	-12.33	41.78	54.00	12.22	163	301	Vertical
5	7206	44.82	-5.91	38.91	54.00	15.09	245	231	Vertical
6	9608	48.68	0.49	49.17	54.00	4.83	275	291	Vertical



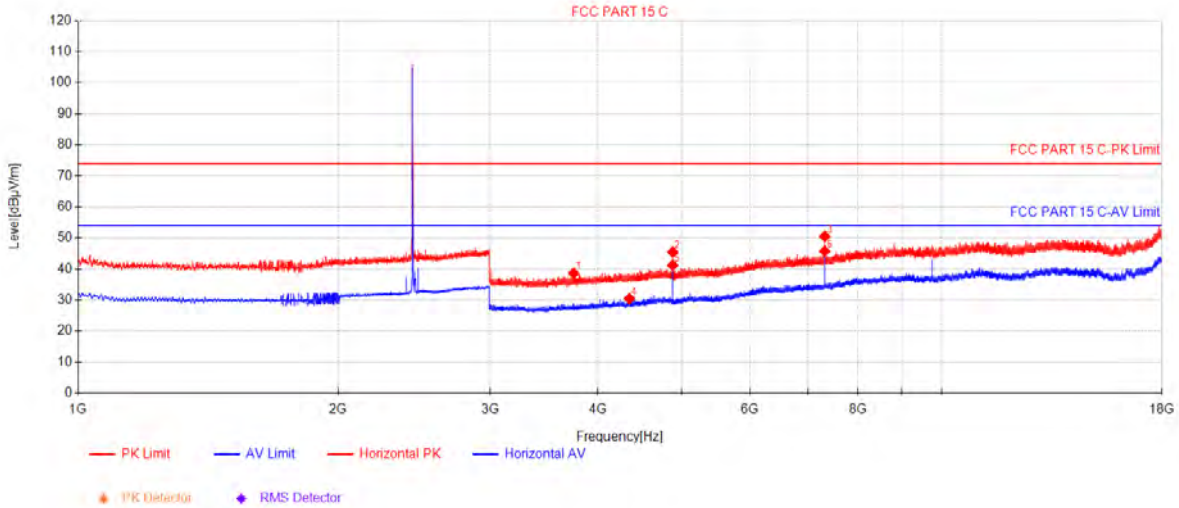
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Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3748	54.23	-15.58	38.65	74.00	35.35	365	237	Horizontal
2	4882	57.97	-12.48	45.49	74.00	28.51	135	170	Horizontal
3	7323	55.95	-5.42	50.53	74.00	23.47	268	338	Horizontal
4	4350	44.24	-13.76	30.48	54.00	23.52	245	186	Horizontal
5	4882	53.70	-12.48	41.22	54.00	12.78	186	249	Horizontal
6	7323	51.20	-5.42	45.78	54.00	8.22	162	348	Horizontal



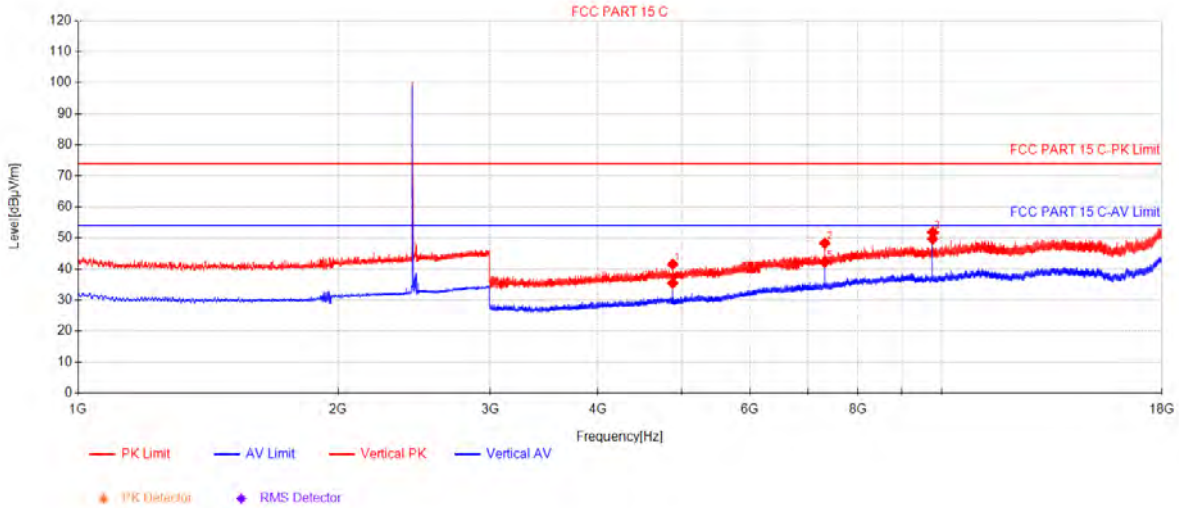
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Channel 39



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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882	53.99	-12.48	41.51	74.00	32.49	163	118	Vertical
2	7323	53.75	-5.42	48.33	74.00	25.67	352	49	Vertical
3	9764	50.85	1.02	51.87	74.00	22.13	196	78	Vertical
4	4882	47.98	-12.48	35.50	54.00	18.50	185	118	Vertical
5	7323	47.71	-5.42	42.29	54.00	11.71	246	49	Vertical
6	9764	48.66	1.02	49.68	54.00	4.32	276	78	Vertical



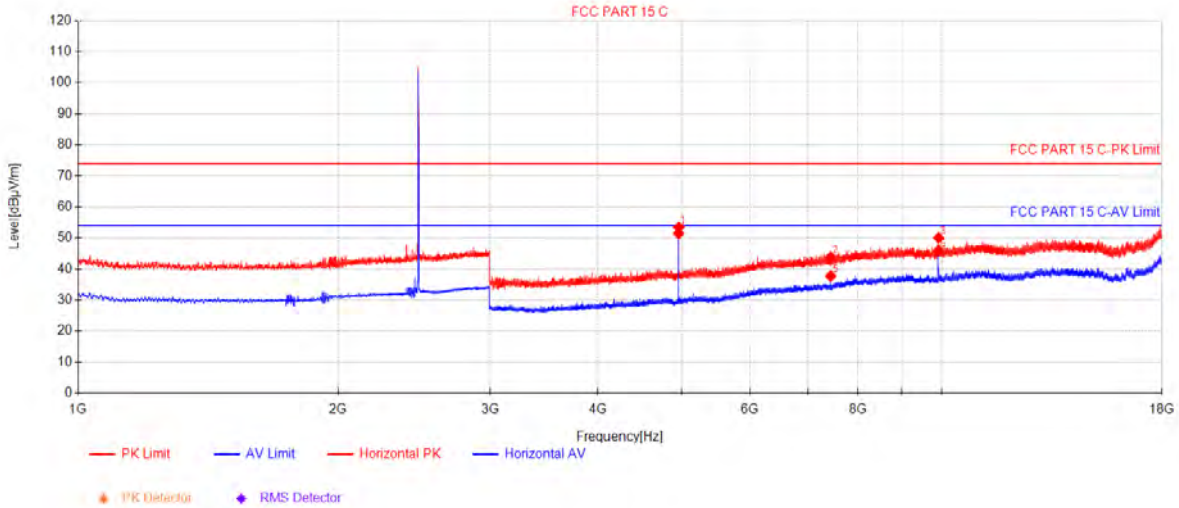
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Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	65.85	-12.41	53.44	74.00	20.56	352	237	Horizontal
2	7440	49.20	-5.36	43.84	74.00	30.16	146	347	Horizontal
3	9920	48.78	1.29	50.07	74.00	23.93	175	18	Horizontal
4	4959.5	63.89	-12.41	51.48	54.00	2.52	185	207	Horizontal
5	7440	43.13	-5.36	37.77	54.00	16.23	296	327	Horizontal
6	9920	44.75	1.29	46.04	54.00	7.96	145	18	Horizontal



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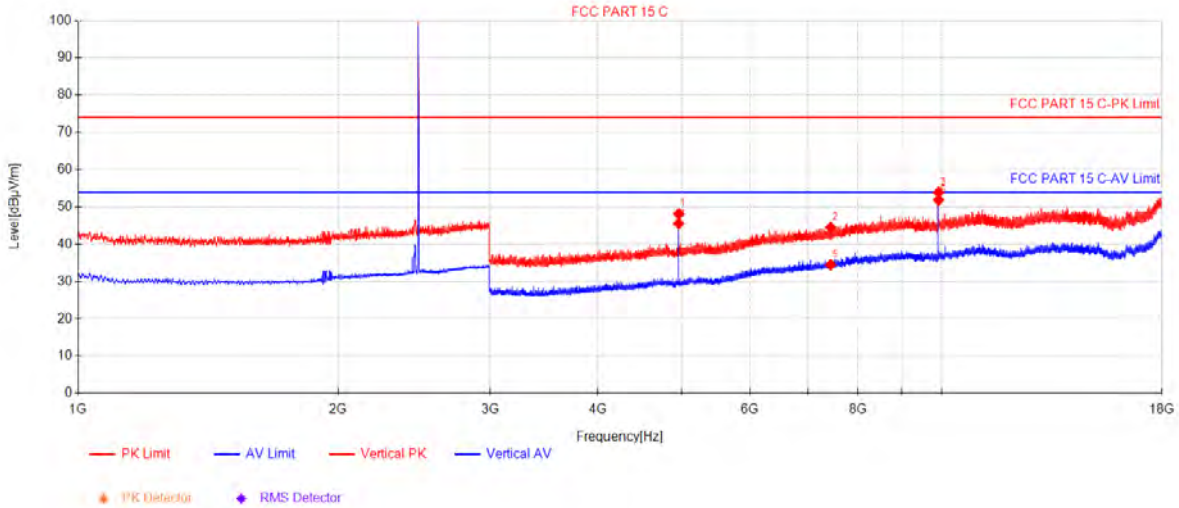
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Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	60.50	-12.41	48.09	74.00	25.91	152	104	Vertical
2	7440	49.88	-5.36	44.52	74.00	29.48	175	58	Vertical
3	9920	52.62	1.29	53.91	74.00	20.09	156	74	Vertical
4	4960	57.94	-12.41	45.53	54.00	8.47	352	284	Vertical
5	7440	39.86	-5.36	34.50	54.00	19.50	268	54	Vertical
6	9920	50.57	1.29	51.86	54.00	2.14	149	74	Vertical



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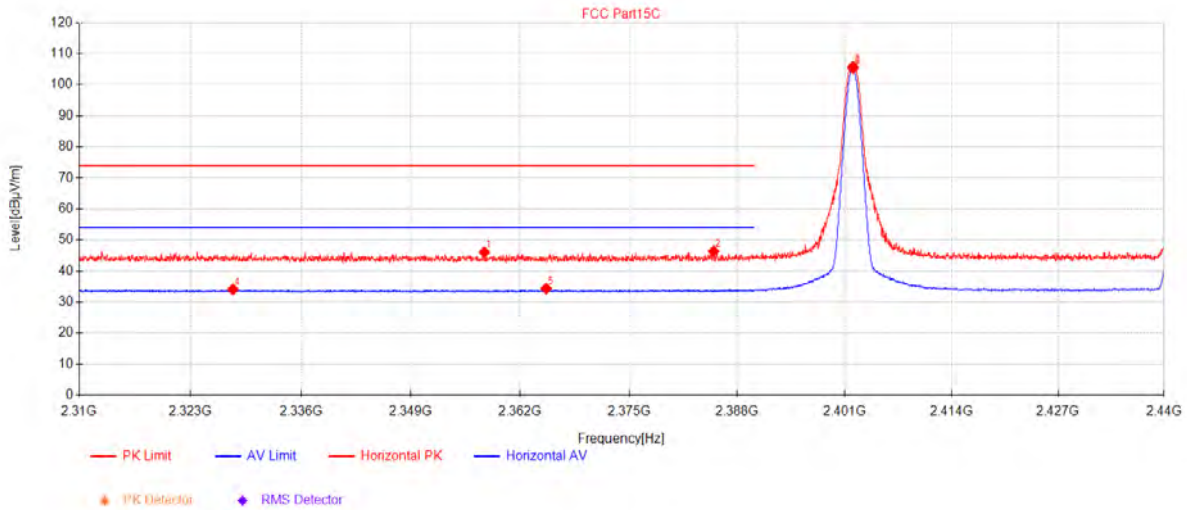
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**BAND\_EDGE**

**Worst case Mode: GFSK**

**Channel 00**



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.7259	42.98	3.12	46.10	74.00	27.90	185	278	Horizontal
2	2385.1651	43.12	3.24	46.36	74.00	27.64	185	278	Horizontal
3	2402	102.53	3.31	105.84	73.89	-31.95	185	278	Horizontal
4	2327.9893	31.09	3.00	34.09	54.00	19.91	185	278	Horizontal
5	2365.095	31.24	3.15	34.39	54.00	19.61	185	278	Horizontal
6	2402	102.01	3.31	105.32	53.92	-51.40	185	278	Horizontal

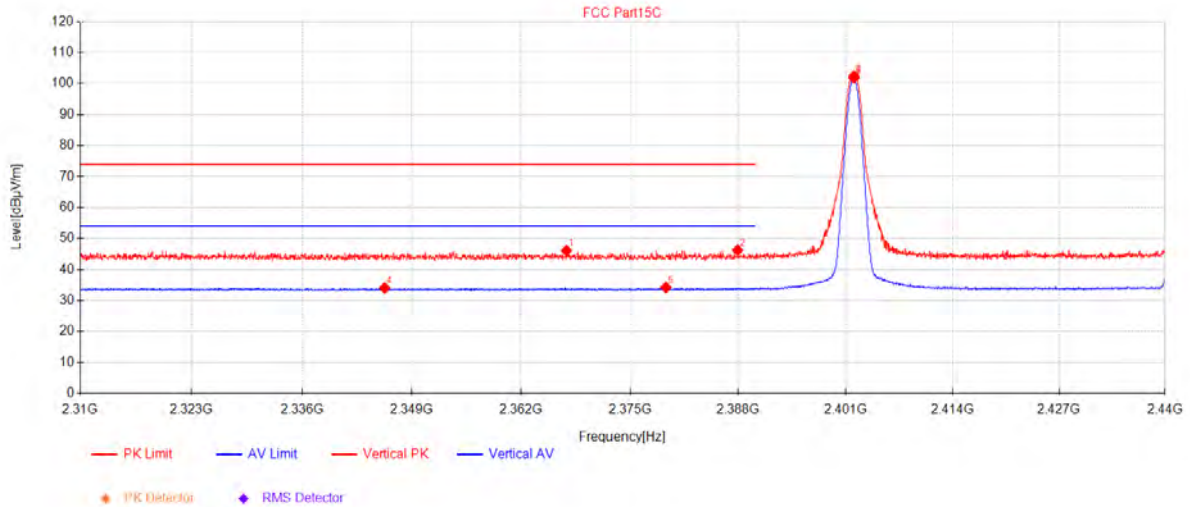


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Channel 00



Data List									
NO	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.3925	42.98	3.16	46.14	74.00	27.86	330	254	Vertical
2	2387.9393	43.01	3.25	46.26	74.00	27.74	330	254	Vertical
3	2402	99.05	3.31	102.36	73.89	-28.47	330	254	Vertical
4	2345.7619	30.97	3.07	34.04	54.00	19.96	330	254	Vertical
5	2379.3131	31.01	3.21	34.22	54.00	19.78	330	254	Vertical
6	2402	98.51	3.31	101.82	53.92	-47.90	330	254	Vertical

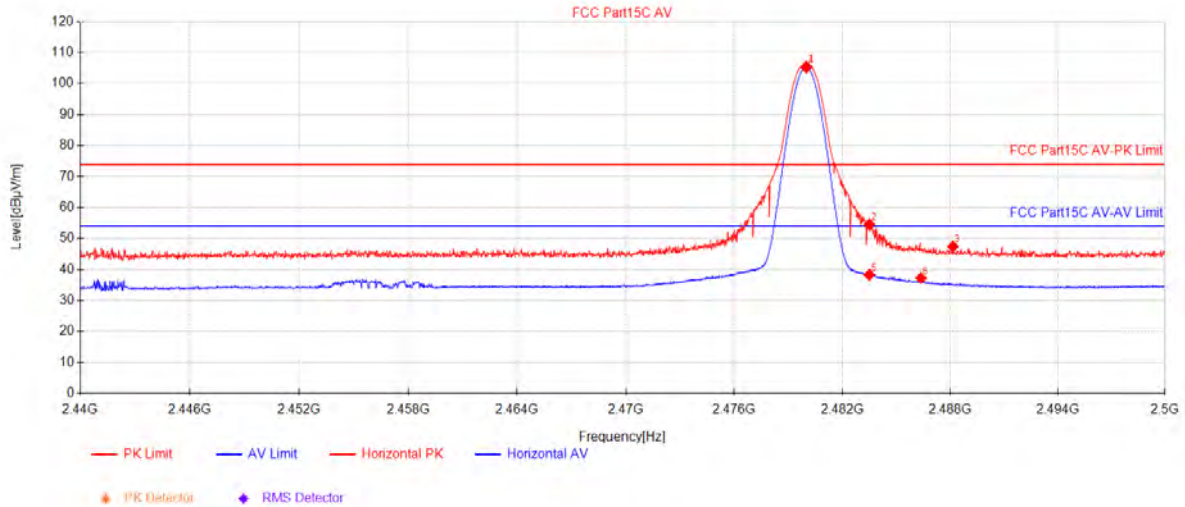


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### Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	101.64	3.88	105.52	74.00	-31.52	180	105	Horizontal
2	2483.5	50.71	3.91	54.62	74.00	19.38	180	105	Horizontal
3	2488.1561	43.47	3.94	47.41	74.00	26.59	180	105	Horizontal
4	2480	101.26	3.88	105.14	54.00	-51.14	180	105	Horizontal
5	2483.5	34.37	3.91	38.28	54.00	15.72	180	105	Horizontal
6	2486.3755	33.30	3.93	37.23	54.00	16.77	180	105	Horizontal

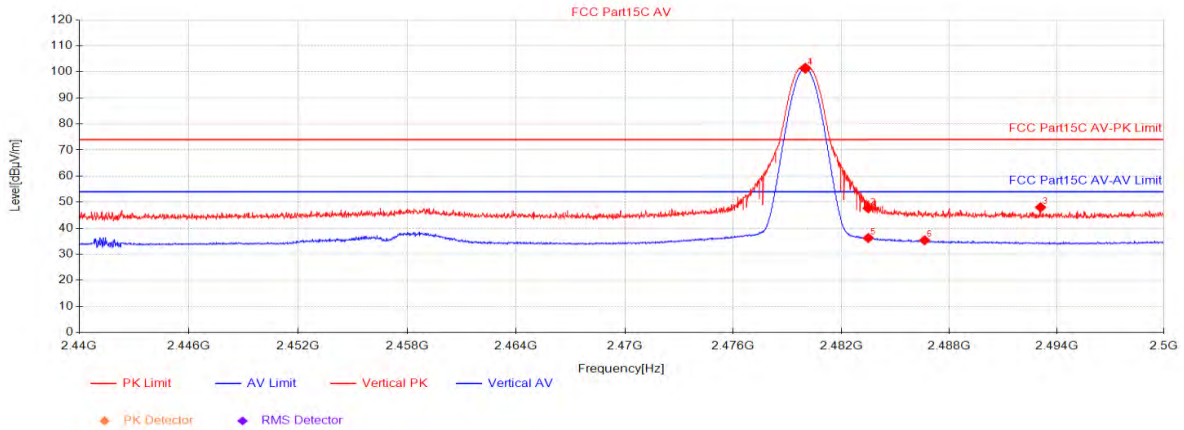


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### Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	97.70	3.88	101.58	74.00	-27.58	349	70	Vertical
2	2483.5	43.76	3.91	47.67	74.00	26.33	349	70	Vertical
3	2493.0977	44.04	3.98	48.02	74.00	25.98	349	70	Vertical
4	2480	97.33	3.88	101.21	54.00	-47.21	349	70	Vertical
5	2483.5	32.33	3.91	36.24	54.00	17.76	349	70	Vertical
6	2486.6355	31.46	3.93	35.39	54.00	18.61	349	70	Vertical

The End



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