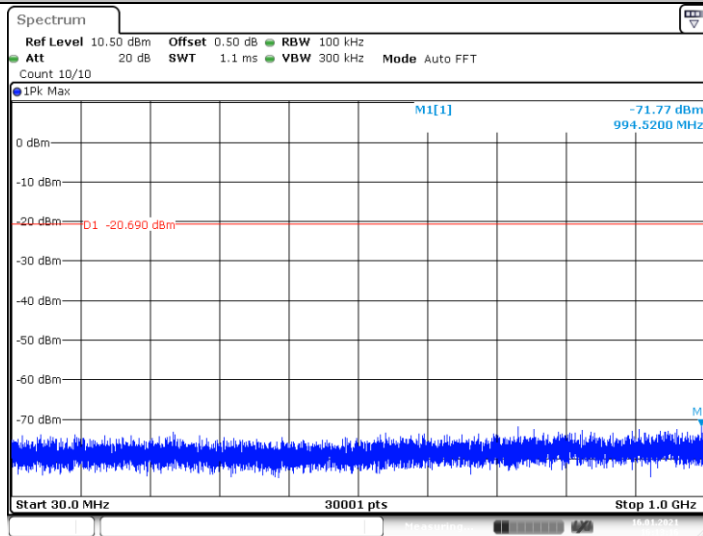


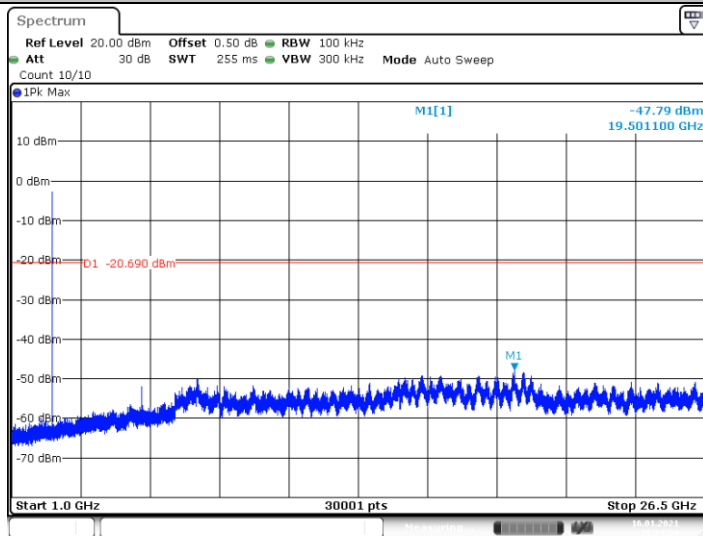
Date: 16.JAN.2021 16:13:07

3DH5_Ant1_2480_30~1000



Date: 16.JAN.2021 16:13:16

3DH5_Ant1_2480_1000~26500



Date: 16.JAN.2021 16:13:44

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3.3. Band Edge Emissions

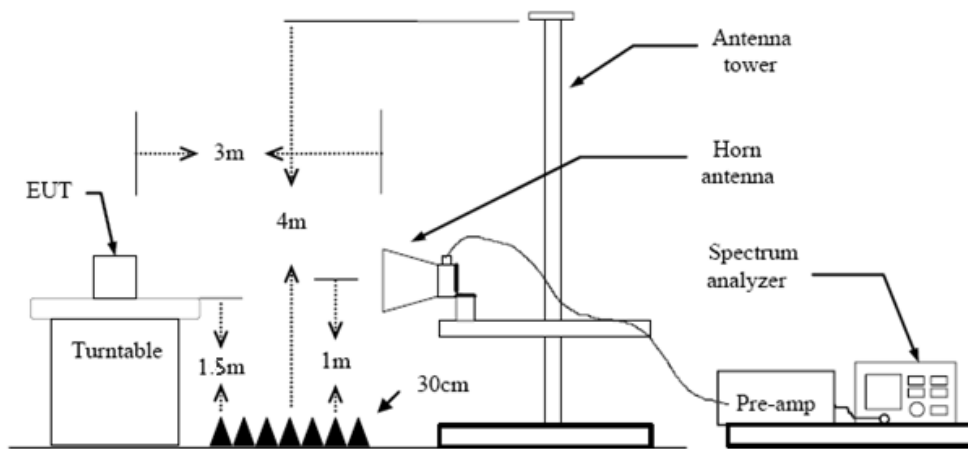
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Conducted band edge limit: The highest point of the operating frequency waveform down 20dB

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
 RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
 RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

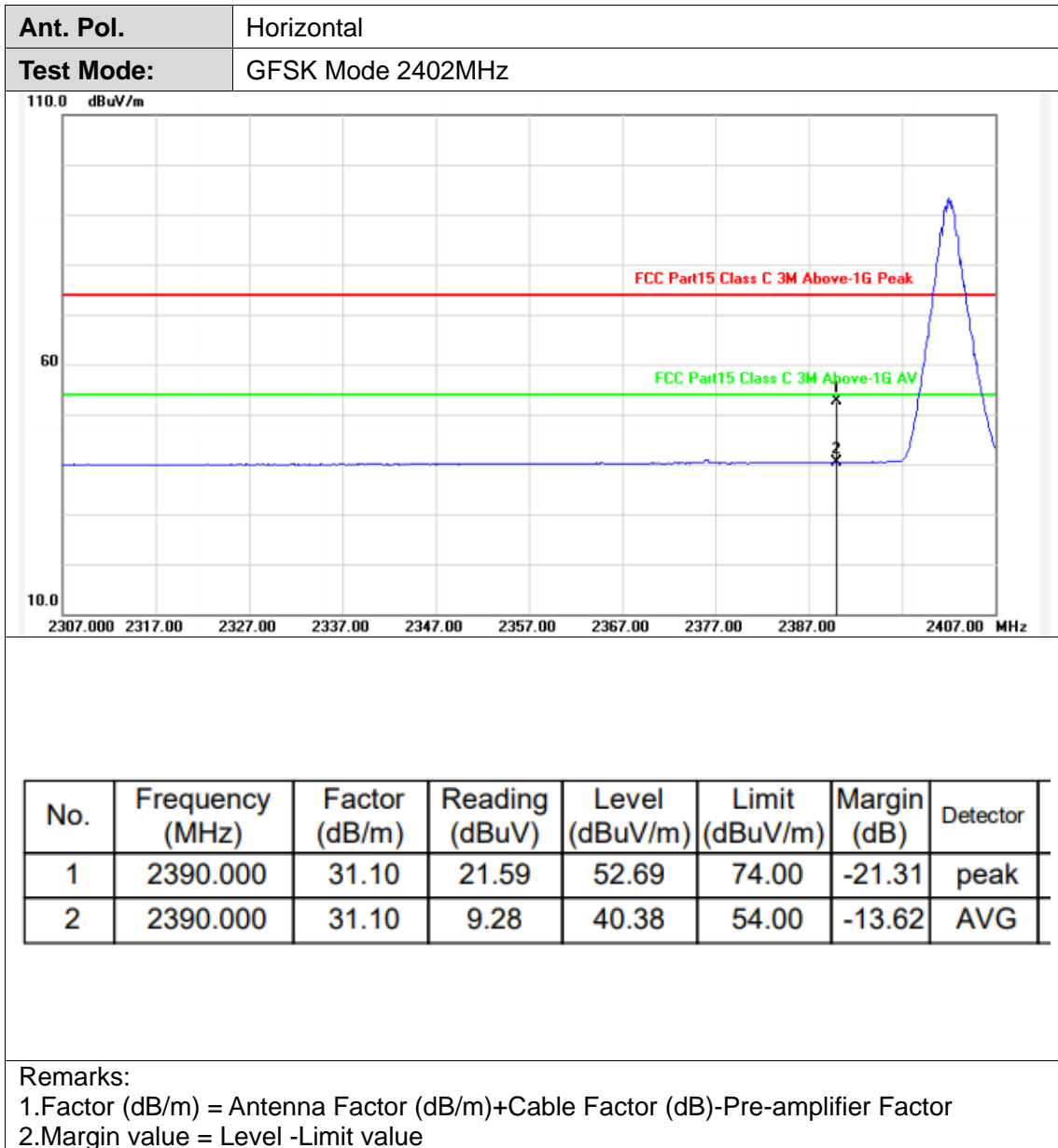
Test Mode

Please refer to the clause 2.3.



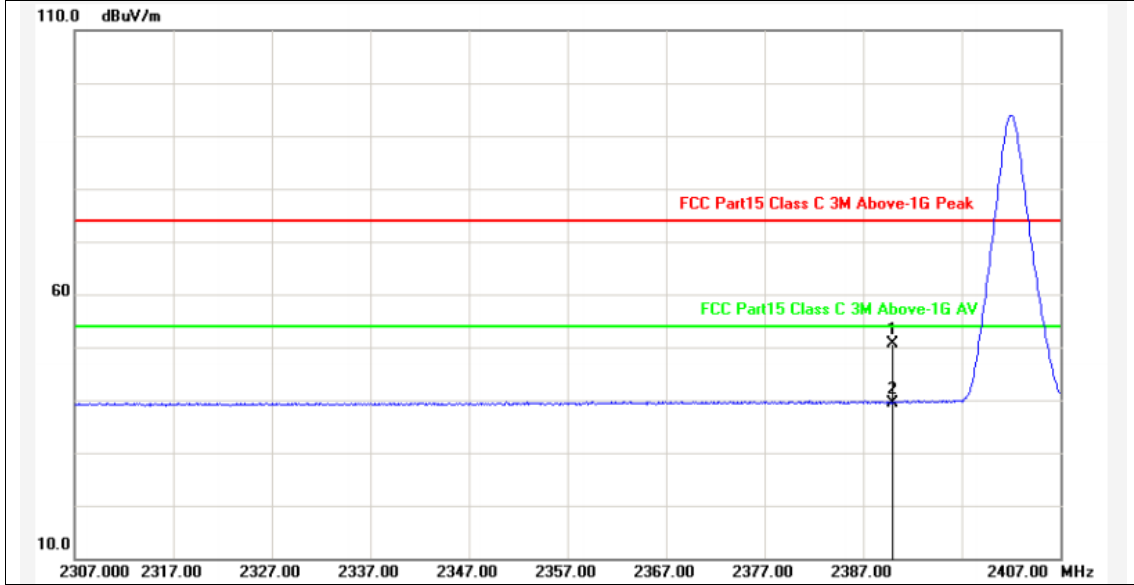
Test Results

(1) Radiation Test





Ant. Pol.	Vertical
Test Mode:	GFSK Mode 2402MHz

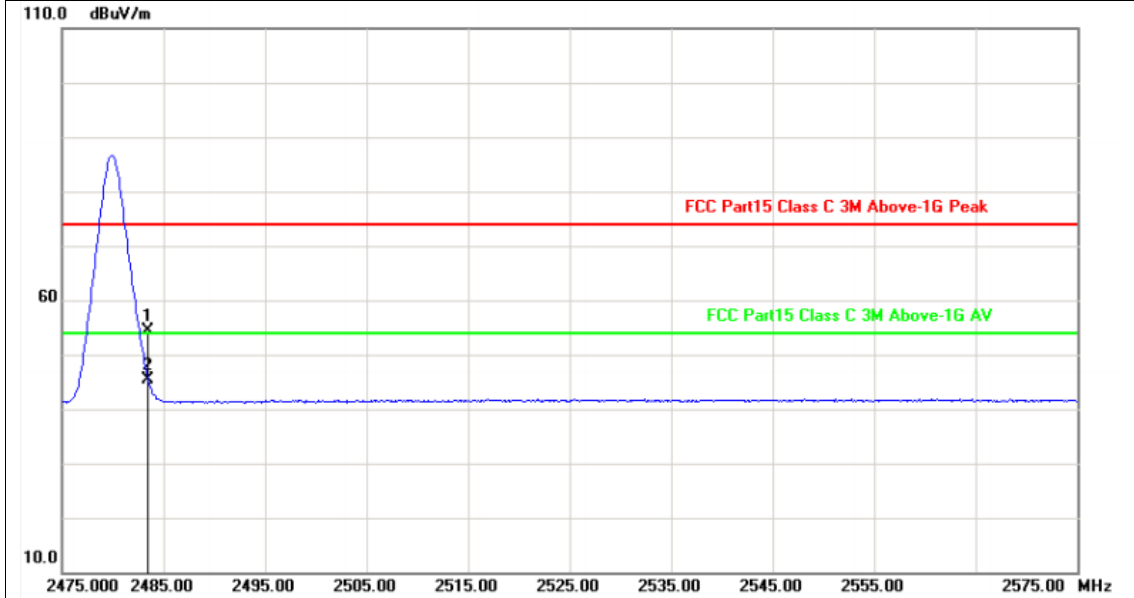


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	19.59	50.69	74.00	-23.31	peak
2	2390.000	31.10	8.38	39.48	54.00	-14.52	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	GFSK Mode 2480 MHz



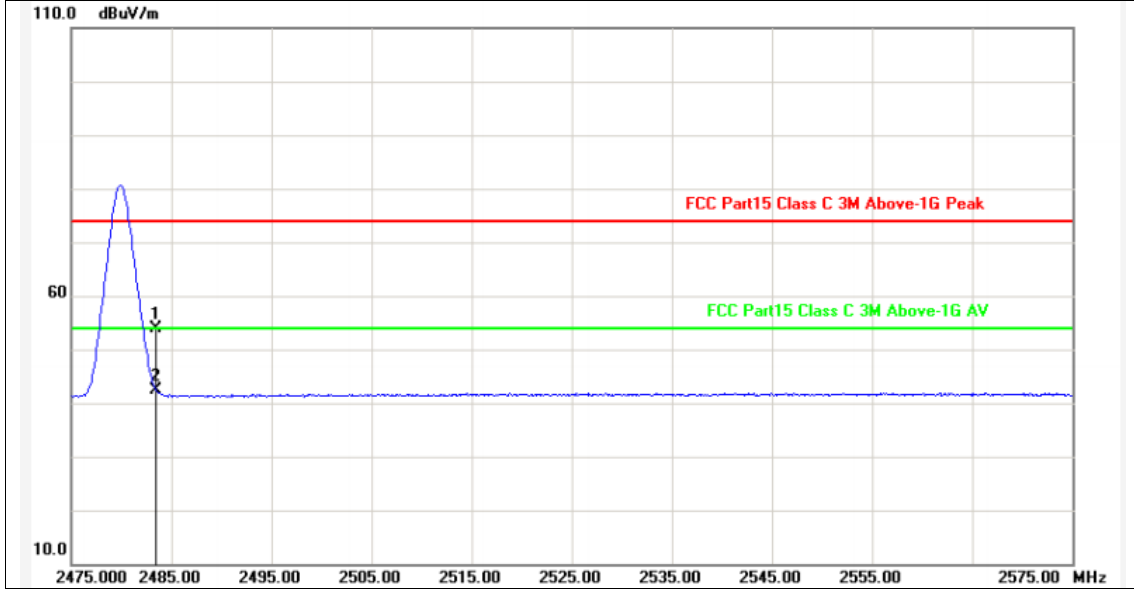
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	22.85	54.35	74.00	-19.65	peak
2	2483.500	31.50	13.81	45.31	54.00	-8.69	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	GFSK Mode 2480 MHz

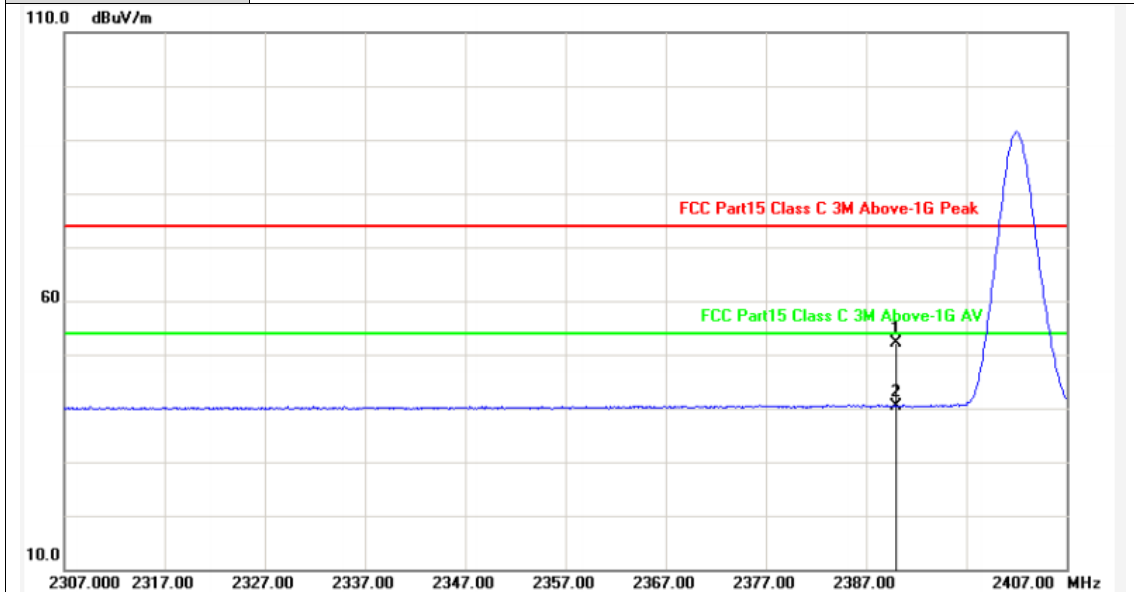


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	22.47	53.97	74.00	-20.03	peak
2	2483.500	31.50	10.91	42.41	54.00	-11.59	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	$\pi/4$ -DQPSK Mode 2402MHz



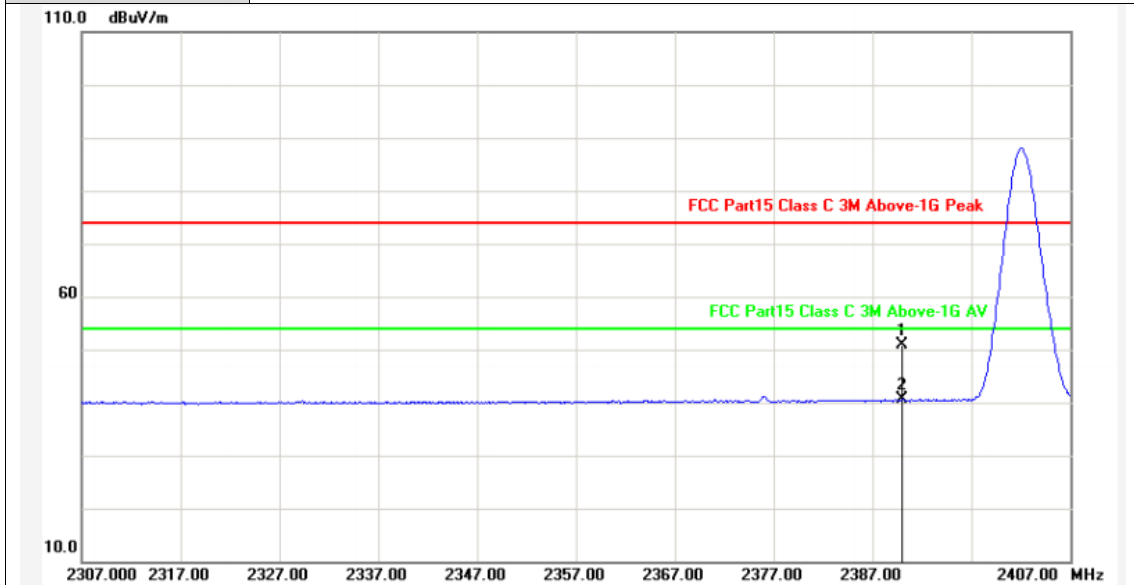
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	20.93	52.03	74.00	-21.97	peak
2	2390.000	31.10	9.39	40.49	54.00	-13.51	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	$\pi/4$ -DQPSK Mode 2402MHz

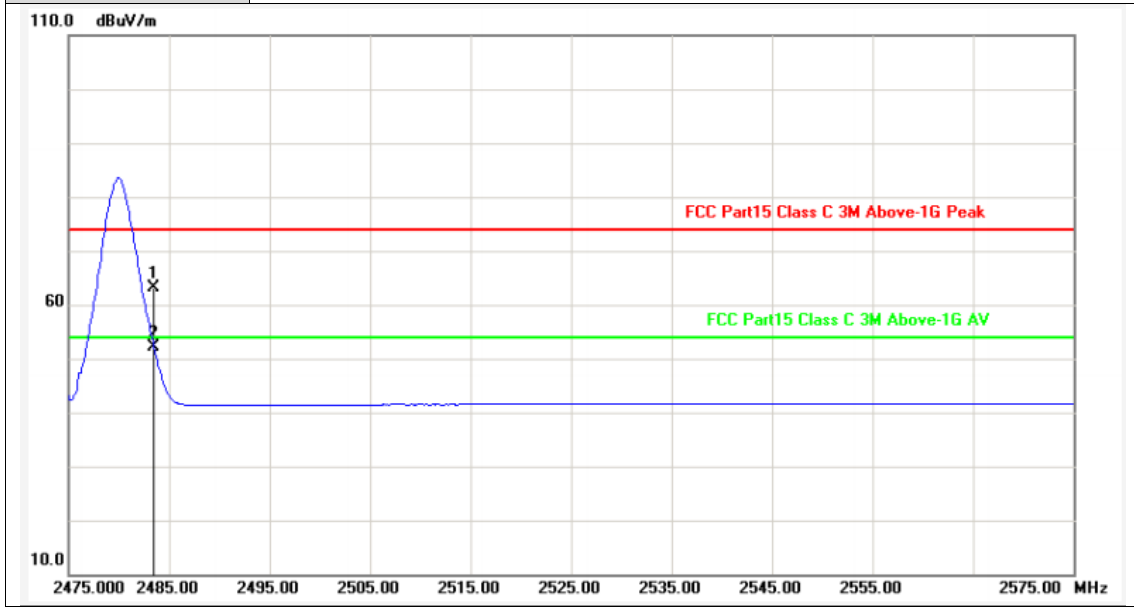


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-8.10	49.60	41.50	74.00	-32.50	peak
2	2390.000	-8.10	37.52	29.42	54.00	-24.58	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	$\pi/4$ -DQPSK Mode 2480MHz

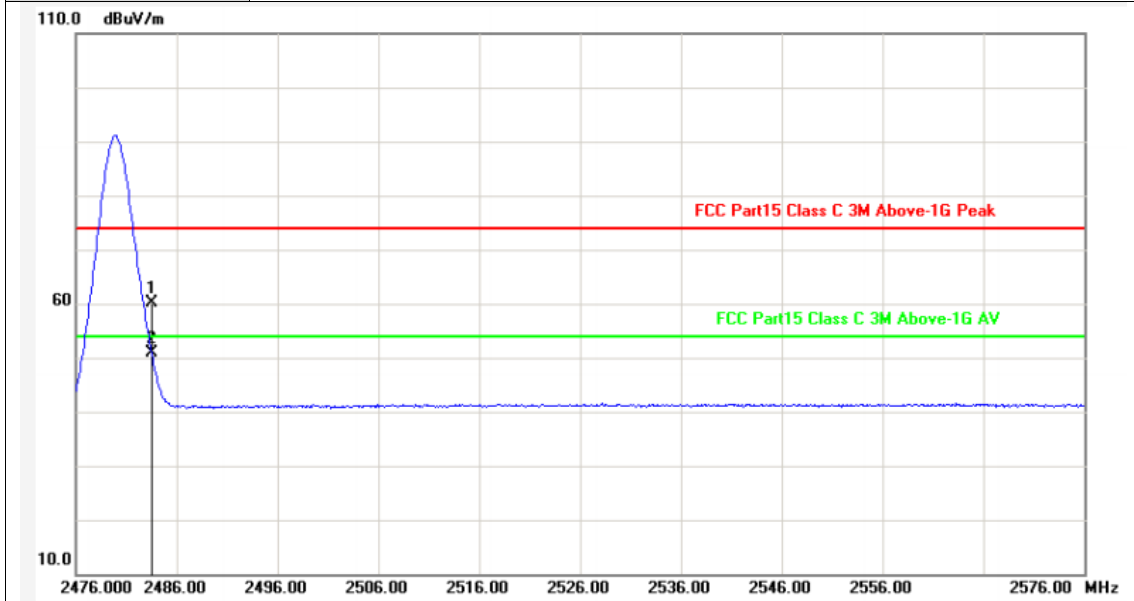


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	31.54	63.04	74.00	-10.96	peak
2	2483.500	31.50	20.75	52.25	54.00	-1.75	AVG

Remarks:
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	$\pi/4$ -DQPSK Mode 2480MHz

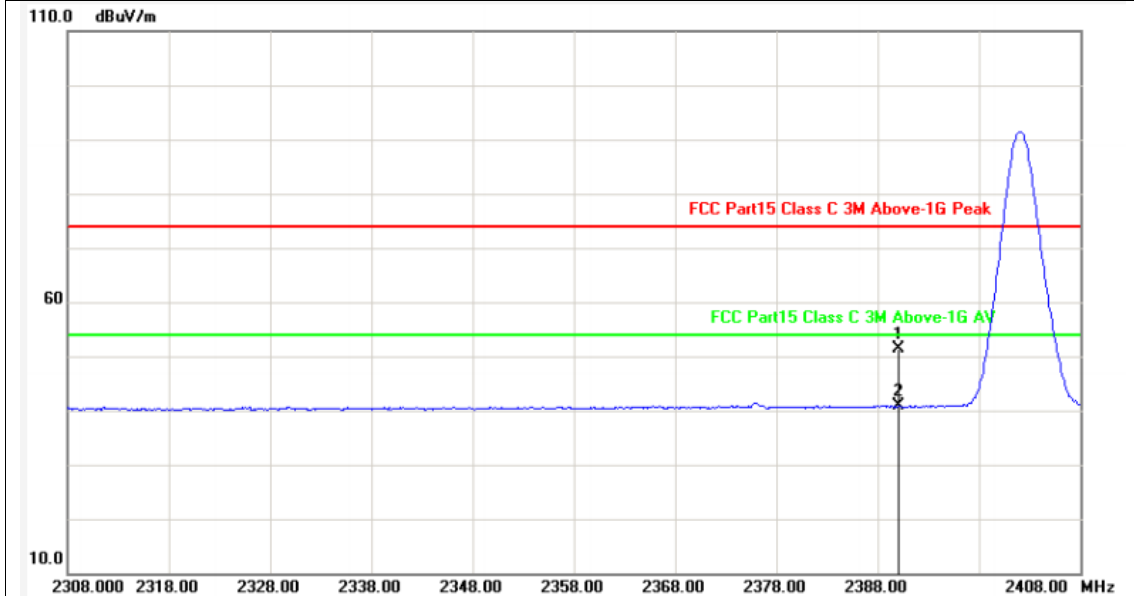


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	28.57	60.07	74.00	-13.93	peak
2	2483.500	31.50	19.34	50.84	54.00	-3.16	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	8-DPSK Mode 2402MHz

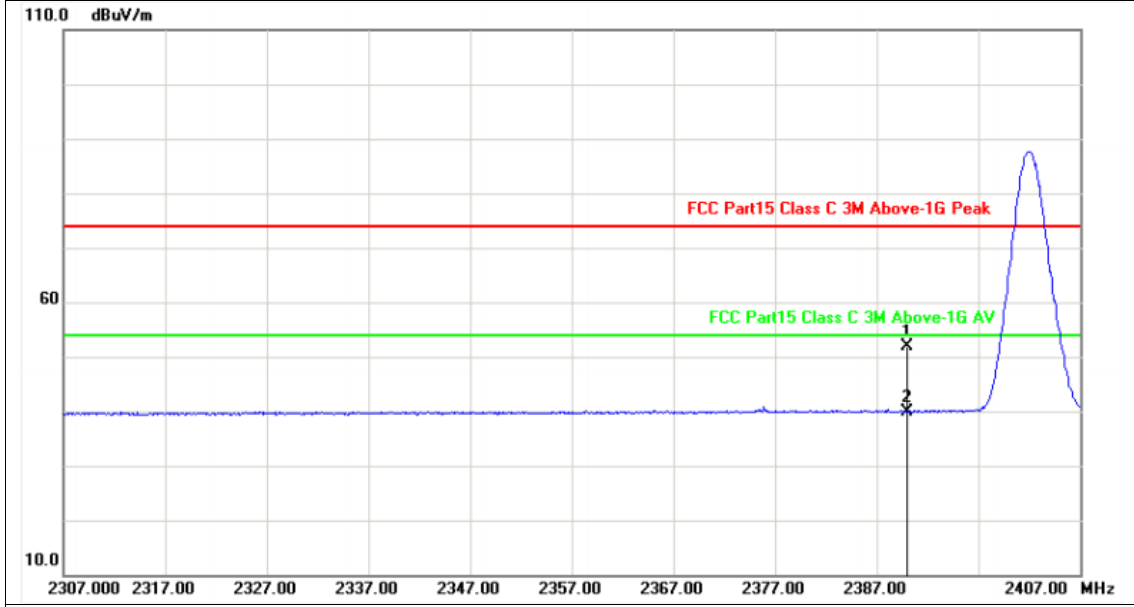


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	20.19	51.29	74.00	-22.71	peak
2	2390.000	31.10	9.74	40.84	54.00	-13.16	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	8-DPSK Mode 2402MHz

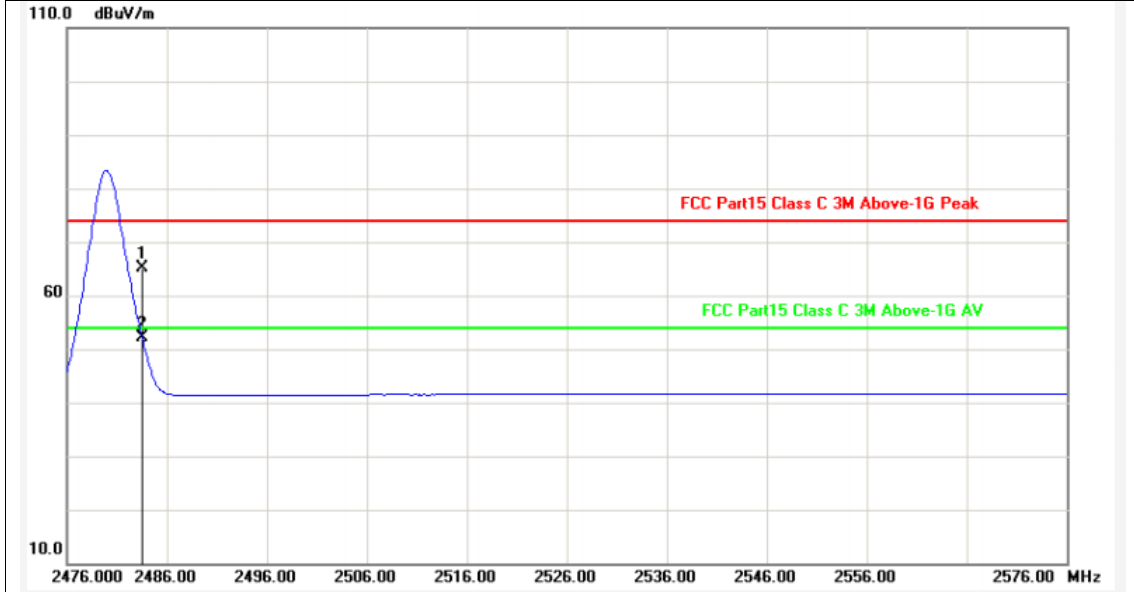


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	20.68	51.78	74.00	-22.22	peak
2	2390.000	31.10	8.83	39.93	54.00	-14.07	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	8-DPSK Mode 2480MHz

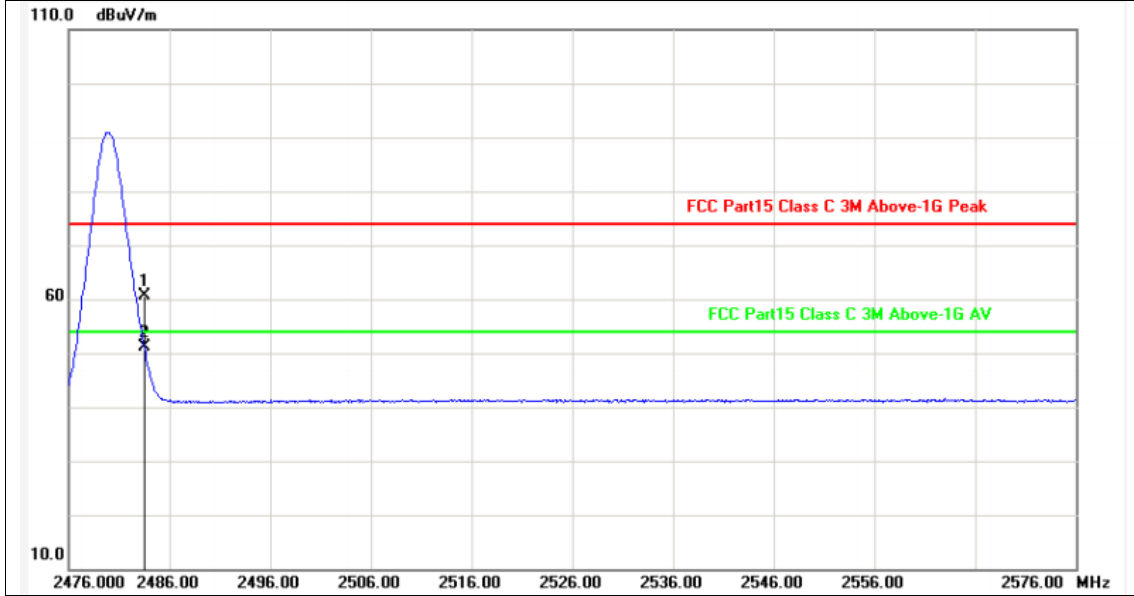


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	33.59	65.09	74.00	-8.91	peak
2	2483.500	31.50	20.63	52.13	54.00	-1.87	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	8-DPSK Mode 2480MHz

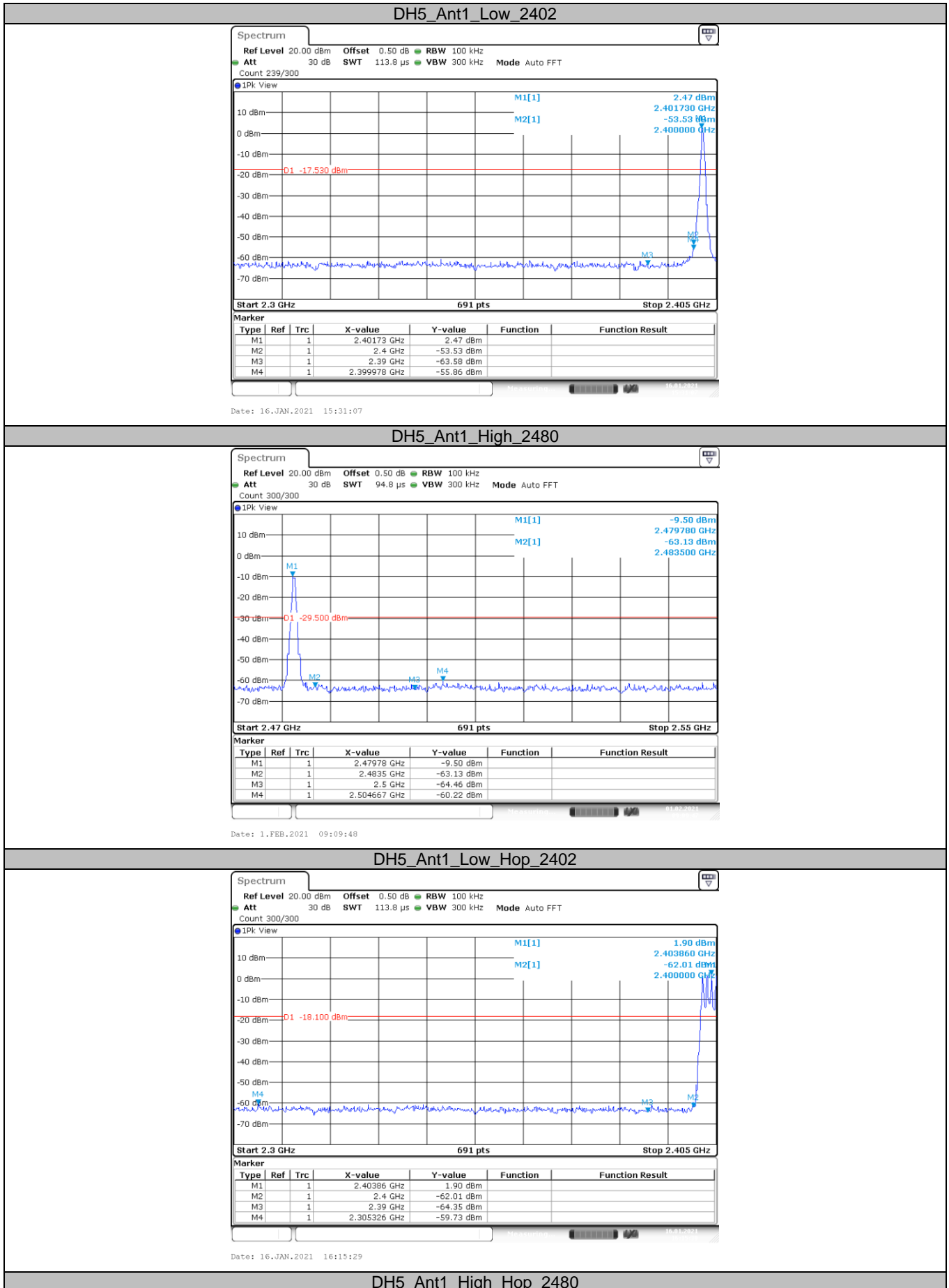


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	29.16	60.66	74.00	-13.34	peak
2	2483.500	31.50	19.55	51.05	54.00	-2.95	AVG

Remarks:
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
 2. Margin value = Level -Limit value



(2) Conducted Test

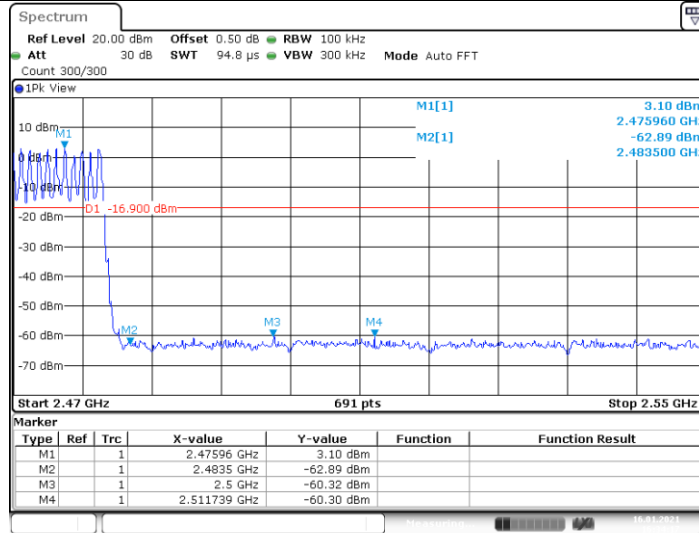


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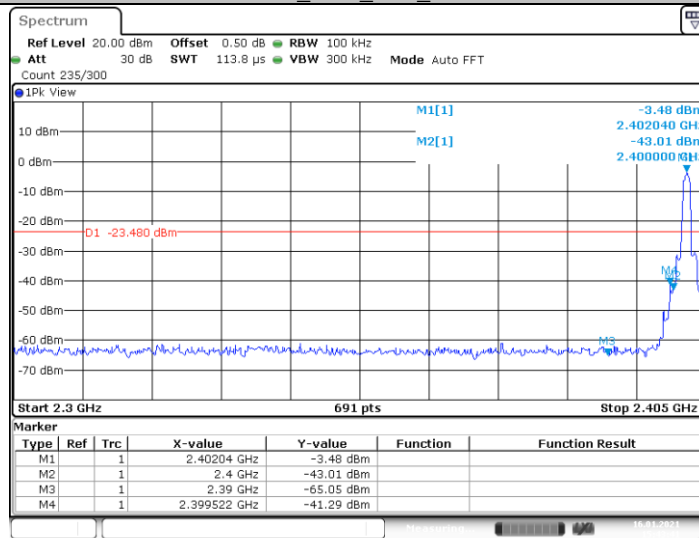
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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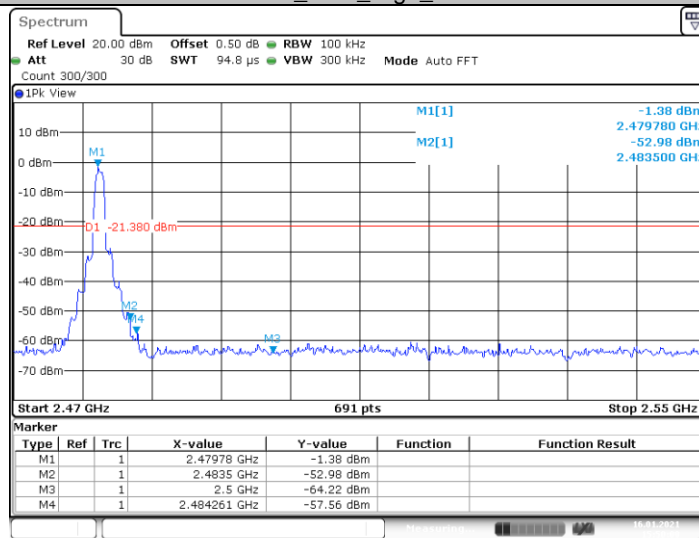
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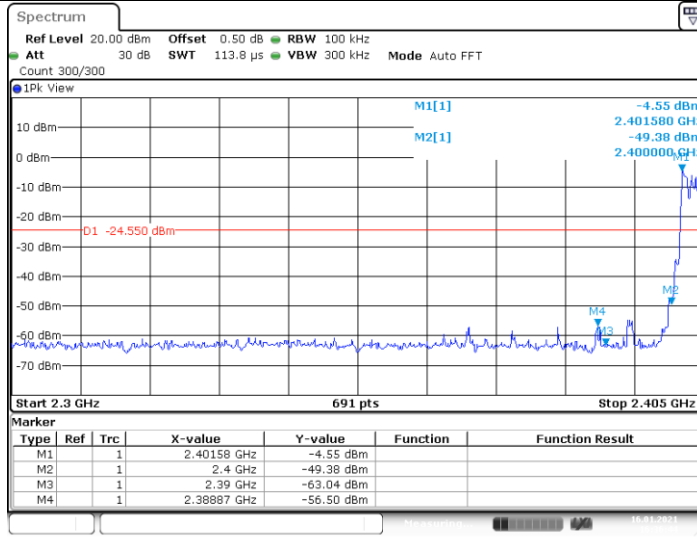
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480

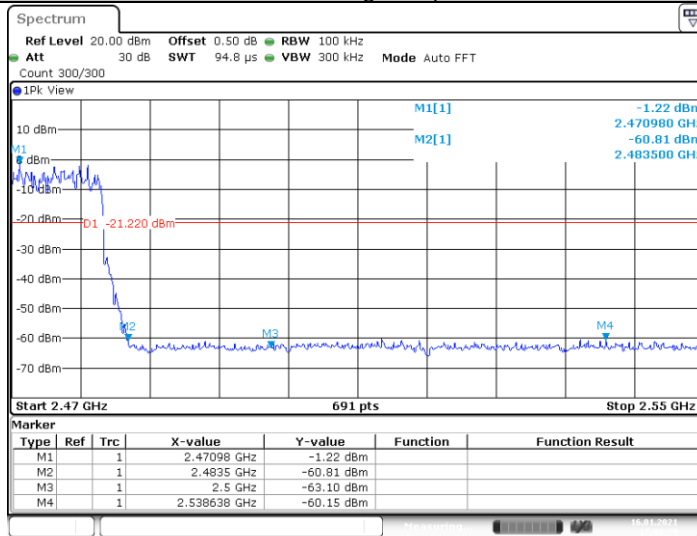


2DH5_Ant1_Low_Hop_2402



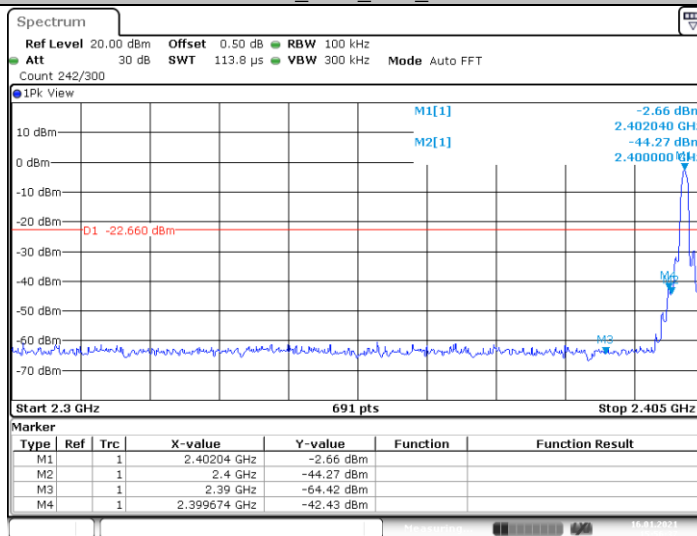
Date: 16.JAN.2021 16:36:44

2DH5_Ant1_High_Hop_2480



Date: 16.JAN.2021 17:00:29

3DH5_Ant1_Low_2402



Date: 16.JAN.2021 15:56:37

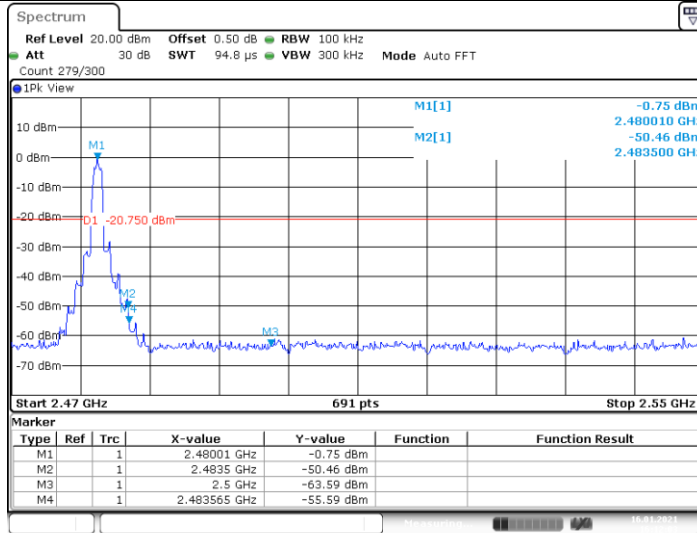
3DH5_Ant1_High_2480

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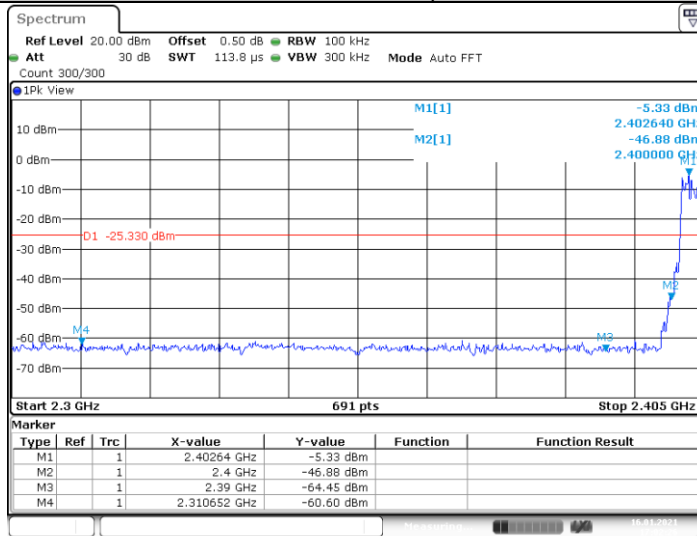


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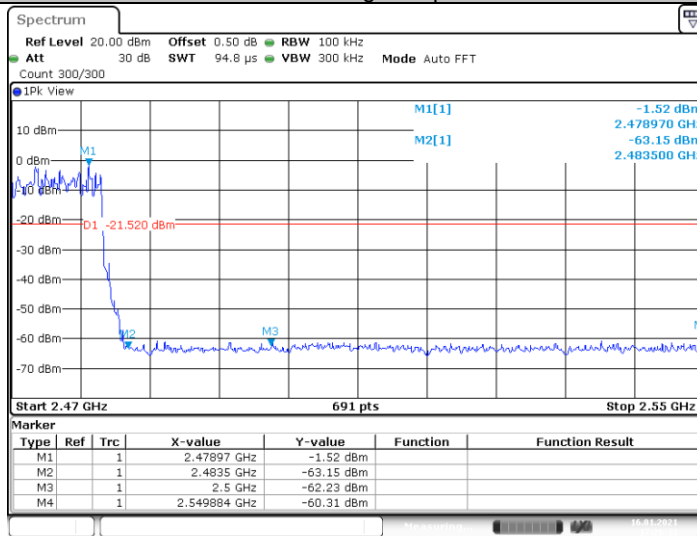
Date: 16.JAN.2021 16:12:03

3DH5_Ant1_Low_Hop_2402



Date: 16.JAN.2021 17:02:26

3DH5_Ant1_High_Hop_2480



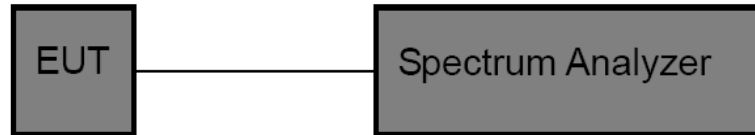
Date: 16.JAN.2021 17:26:13

3.4. Occupied Channel Bandwidth and 20DB Bandwidth

Limit

N/A

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. OCB and 20dB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

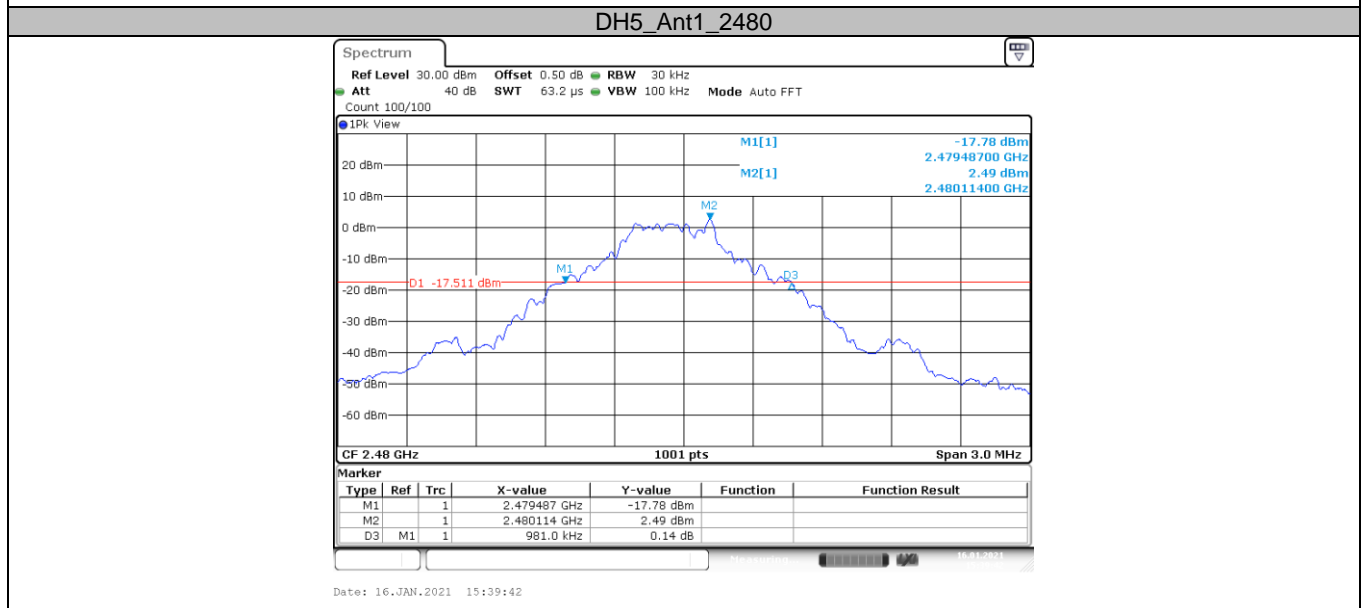
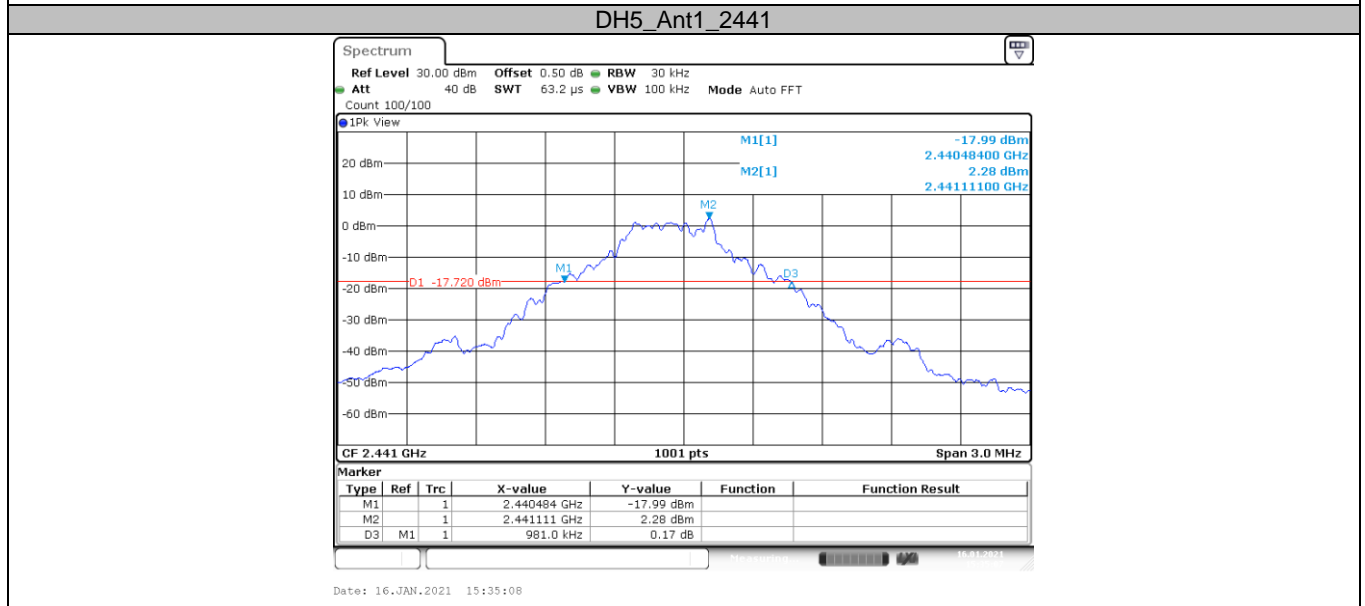
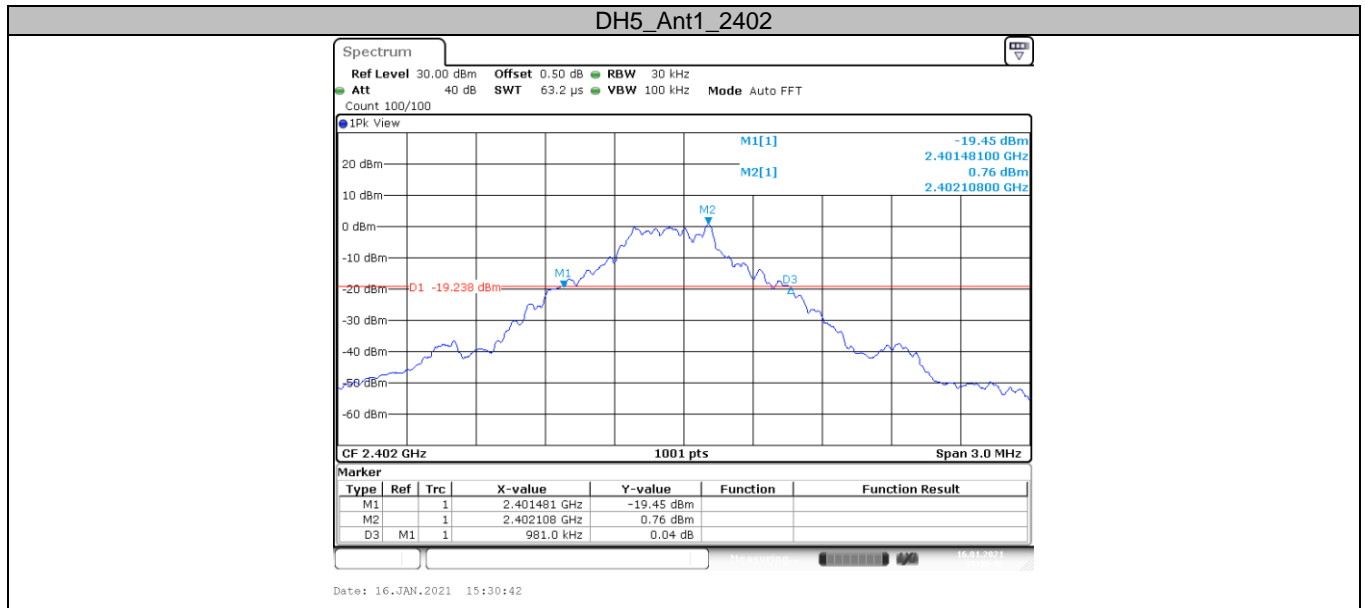
Please refer to the clause 2.3.

Test Results

Modulation type	Channel	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth *2/3 (MHz)
GFSK	00	0.896	0.981	0.654
	39	0.899	0.981	0.654
	78	0.899	0.981	0.654
π/4-DQPSK	00	1.232	1.356	0.904
	39	1.220	1.356	0.904
	78	1.223	1.356	0.904
8-DPSK	00	1.211	1.308	0.872
	39	1.214	1.311	0.874
	78	1.214	1.338	0.892



20dB Bandwidth



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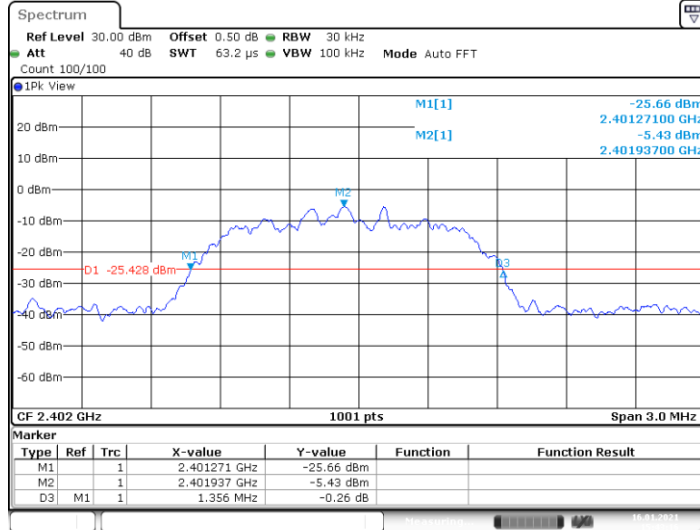
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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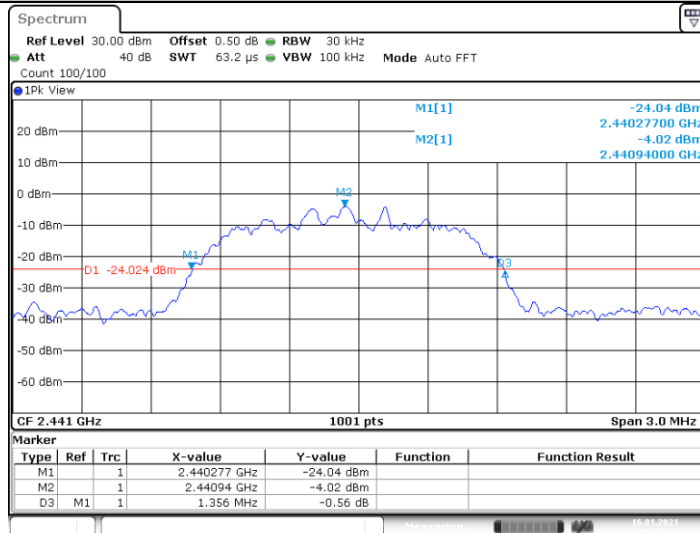


2DH5_Ant1_2402



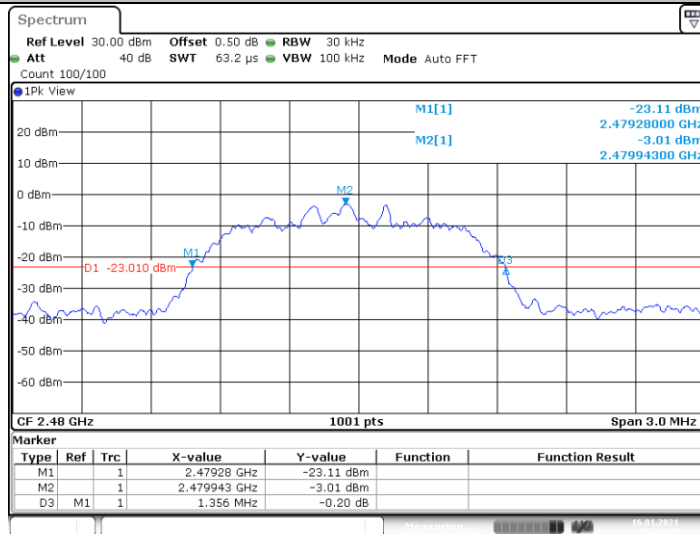
Date: 16.JAN.2021 15:43:16

2DH5_Ant1_2441



Date: 16.JAN.2021 15:47:07

2DH5_Ant1_2480



Date: 16.JAN.2021 15:49:35

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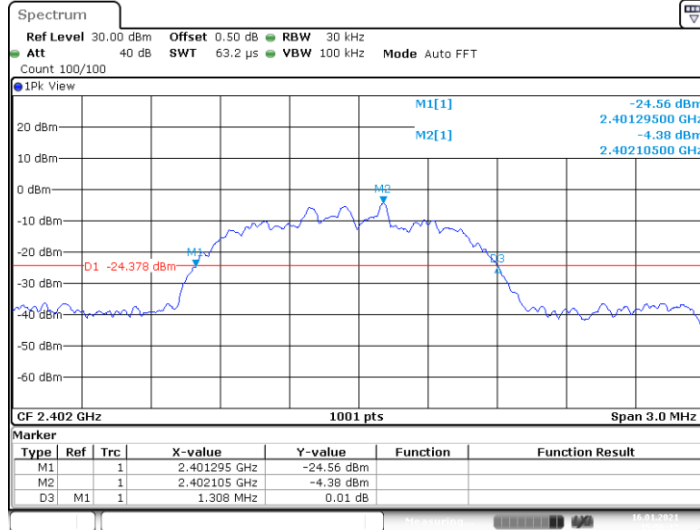
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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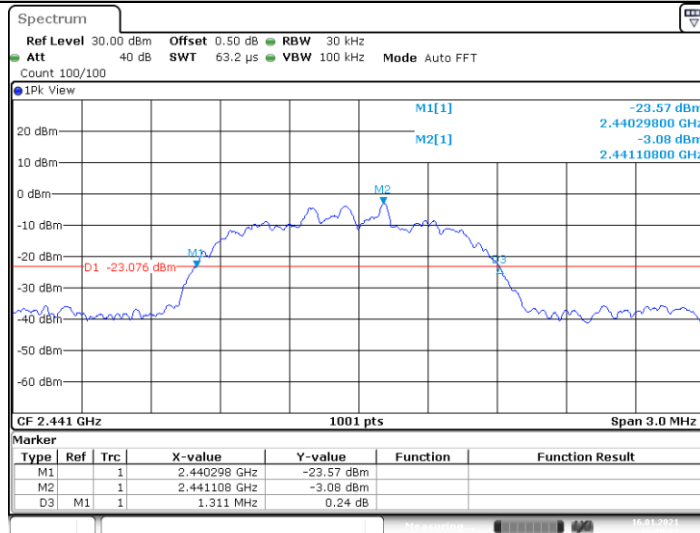
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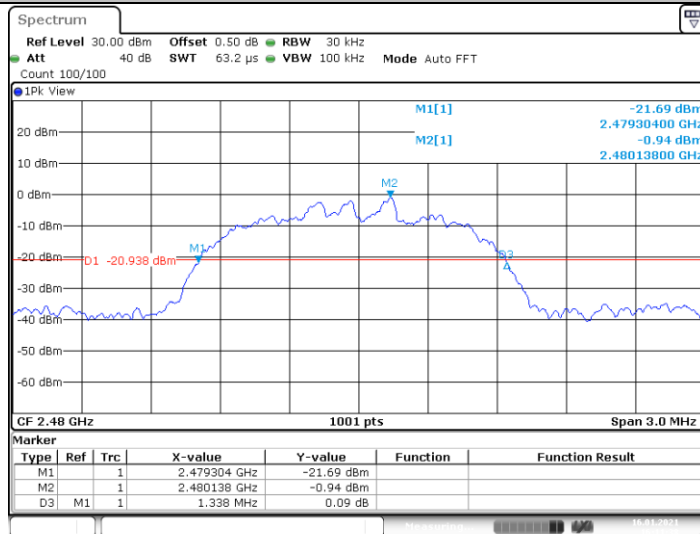
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



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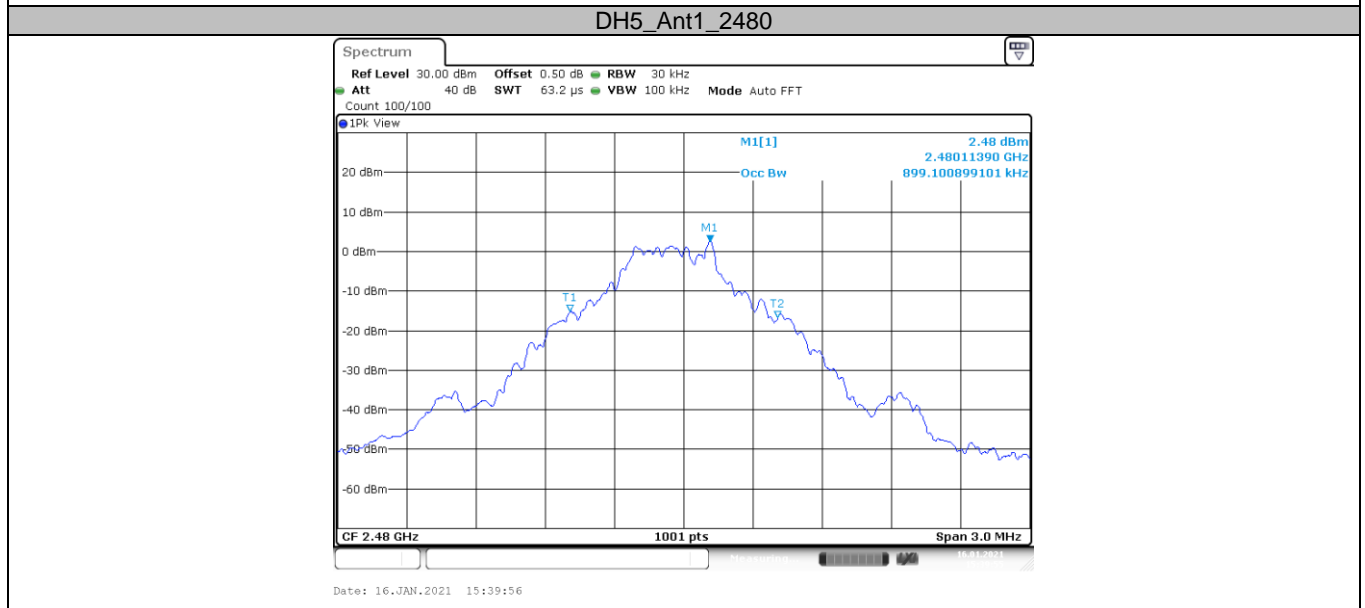
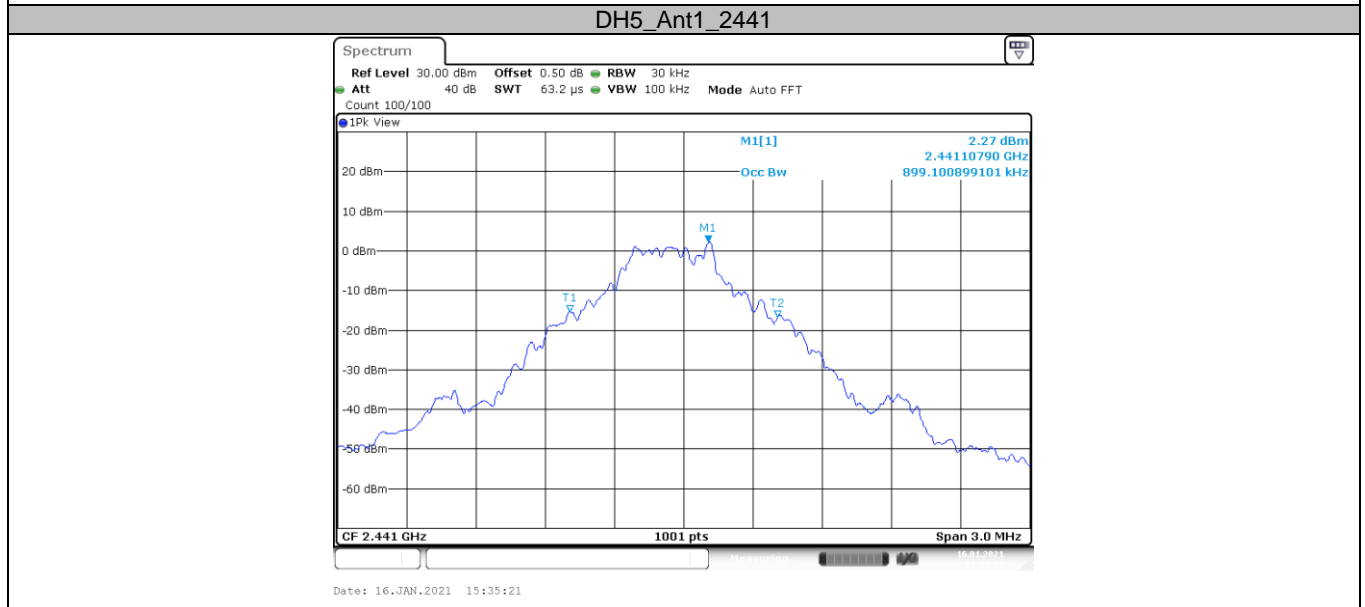
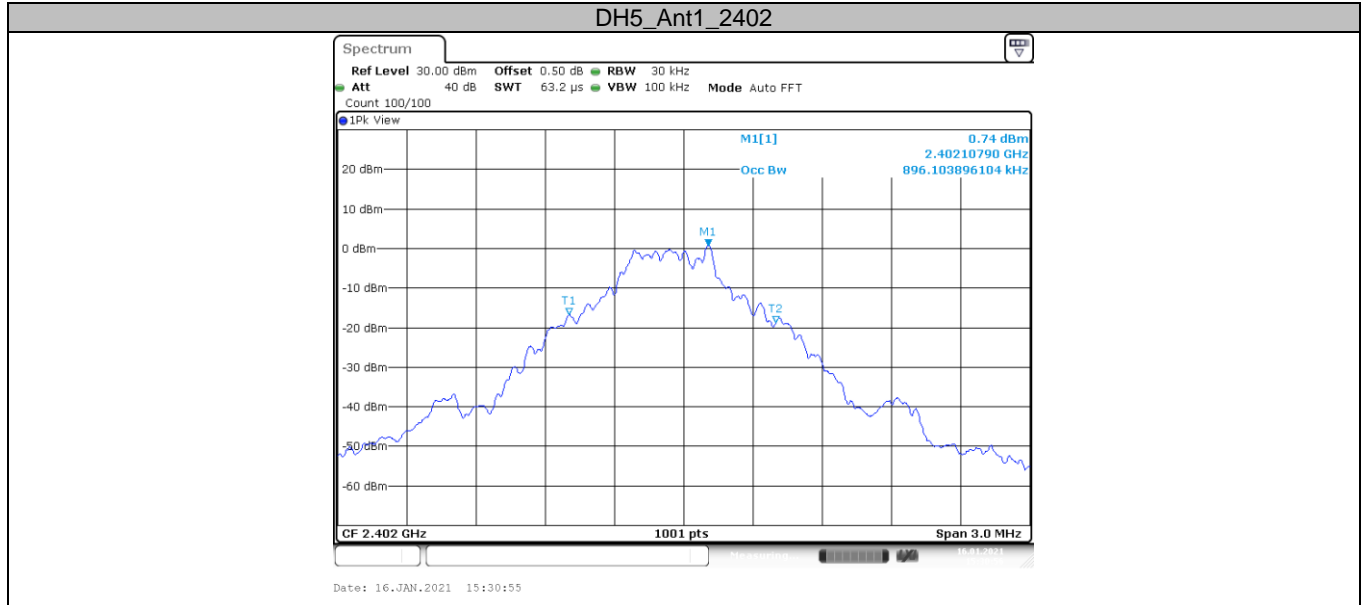
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99% Bandwidth



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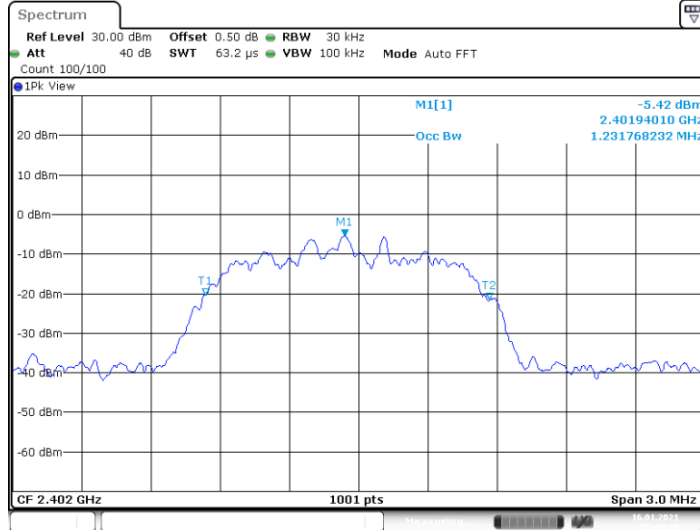
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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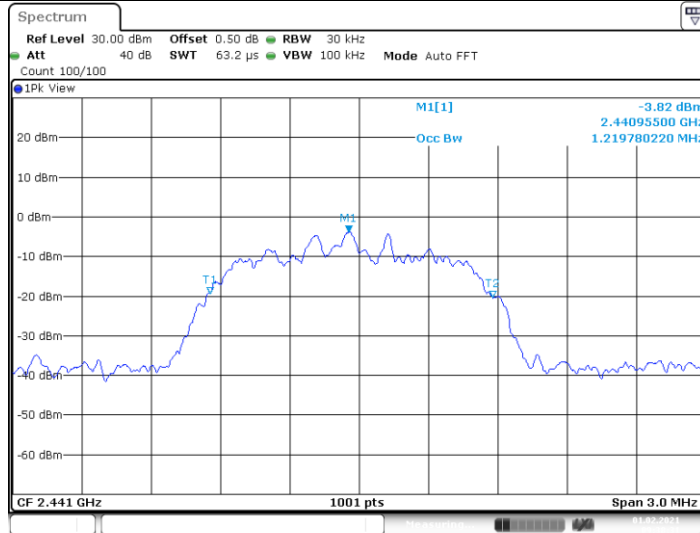
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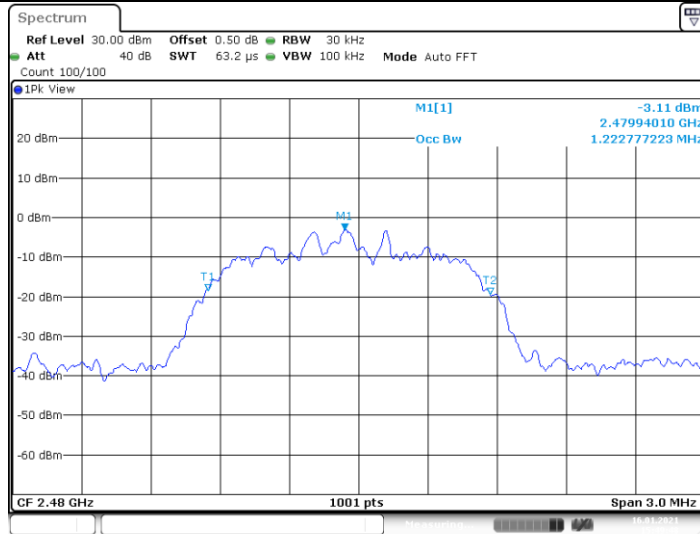
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



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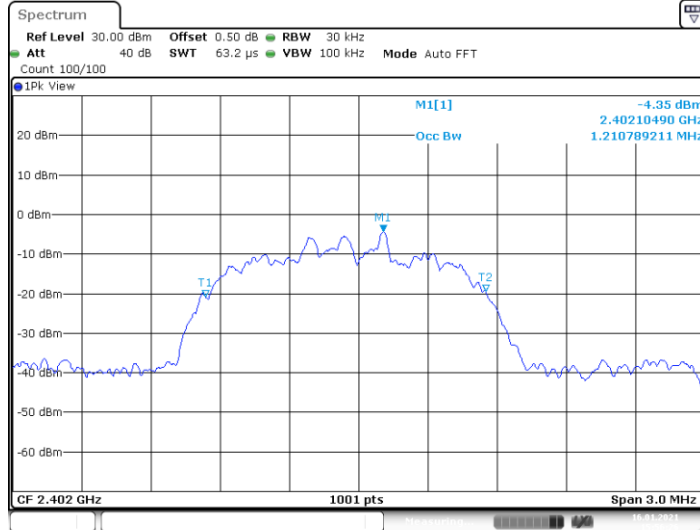
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
 Tel.: (86)755-27521059

Fax: (86)755-27521011 Http://www.sz-ctc.org.cn
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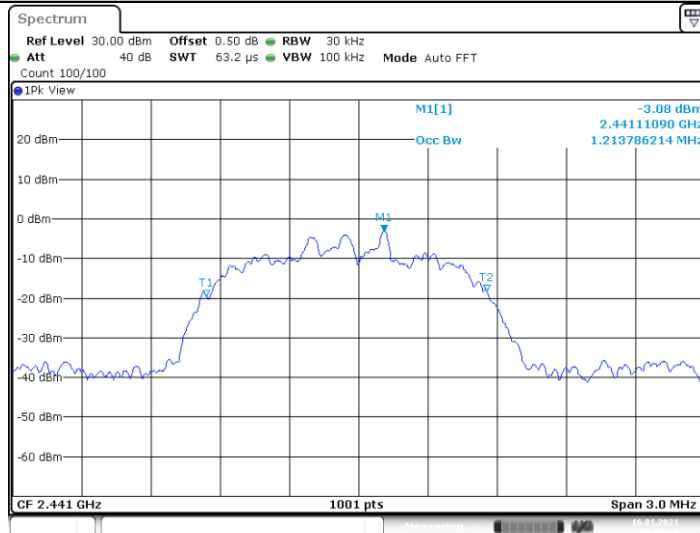


3DH5_Ant1_2402



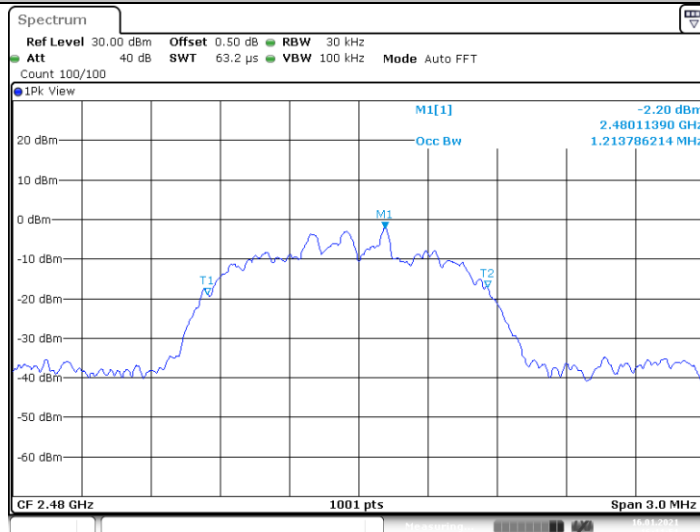
Date: 16.JAN.2021 15:56:25

3DH5_Ant1_2441



Date: 16.JAN.2021 16:00:36

3DH5_Ant1_2480



Date: 16.JAN.2021 16:11:51

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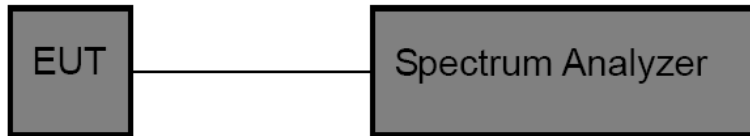
3.5. Channel Separation

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1)/ RSS-247 5.1 b :

Test Item	Limit	Frequency Range(MHz)
Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

Test Configuration



Test Procedure

3. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
4. Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Test Mode

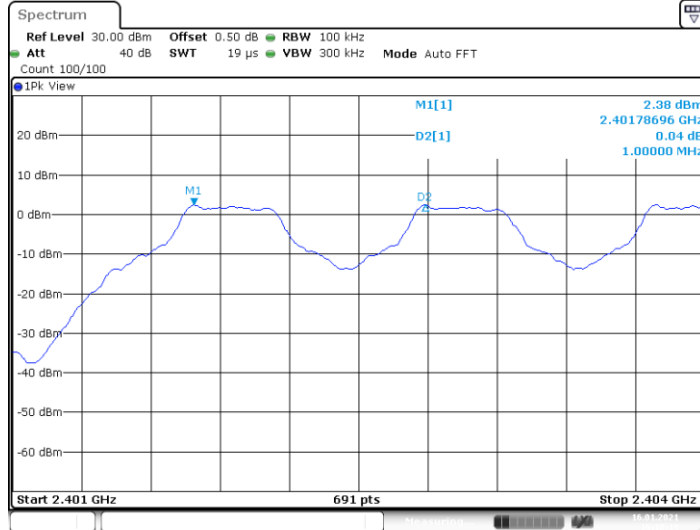
Please refer to the clause 2.3.

**Test Results**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz)	Result
GFSK	00	1.000	652.00	Pass
	39	1.004	652.00	
	78	1.000	654.00	
$\pi/4$ -DQPSK	00	1.004	906.00	Pass
	39	1.000	908.00	
	78	1.004	908.00	
8-DPSK	00	1.004	878.00	Pass
	39	1.043	884.00	
	78	1.004	880.00	

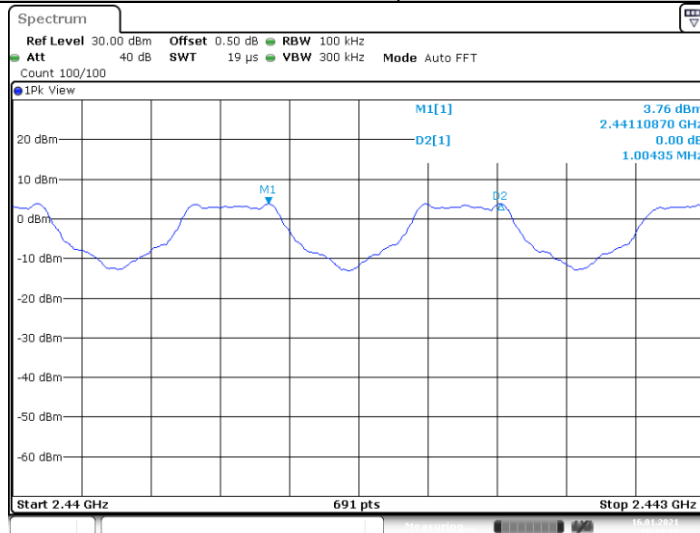


DH5_Ant1_Hop_2402



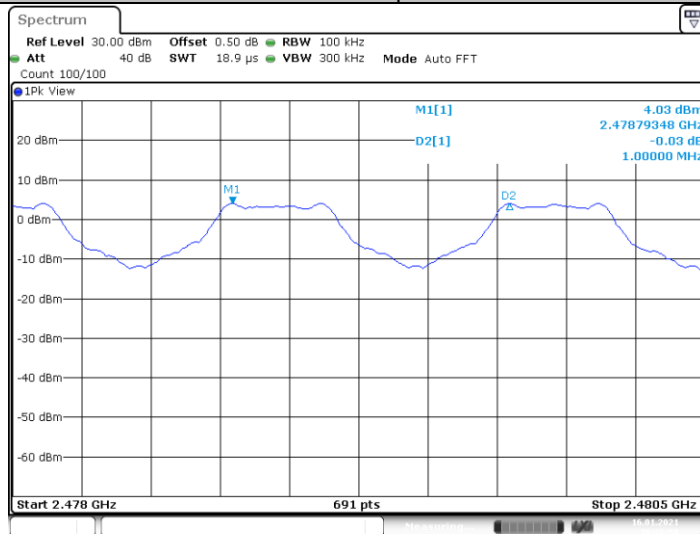
Date: 16.JAN.2021 16:18:20

DH5_Ant1_Hop_2441



Date: 16.JAN.2021 16:19:11

DH5_Ant1_Hop_2480



Date: 16.JAN.2021 16:26:58

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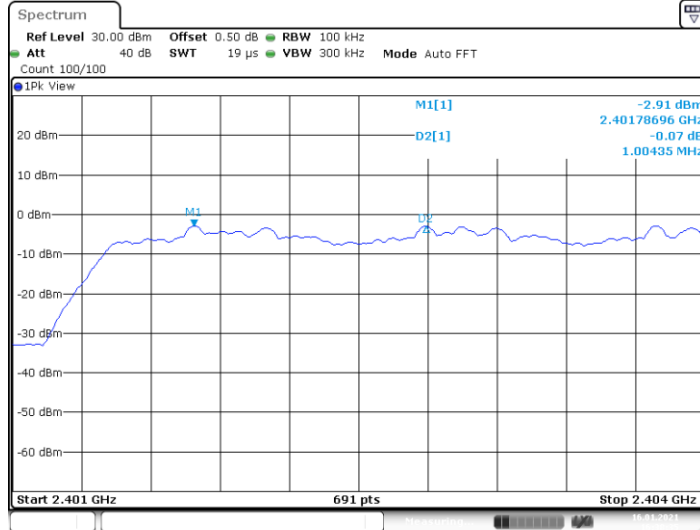
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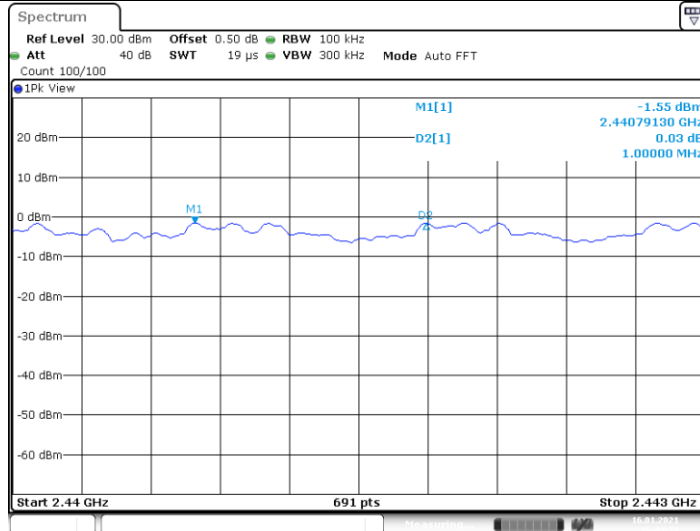
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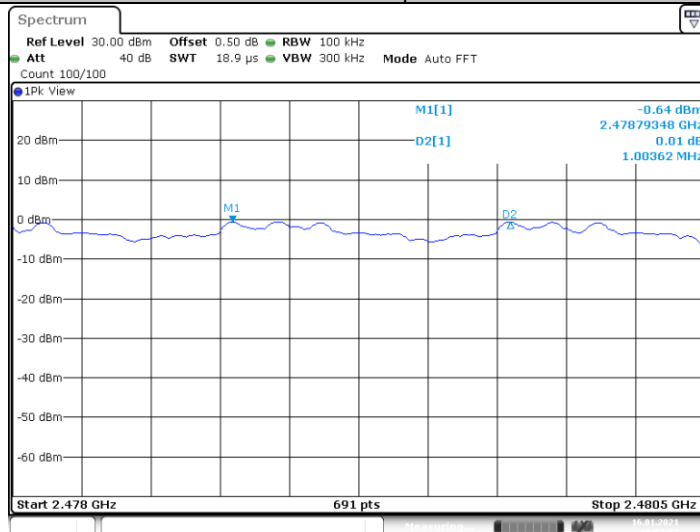
2DH5_Ant1_Hop_2402



2DH5_Ant1_Hop_2441



2DH5_Ant1_Hop_2480



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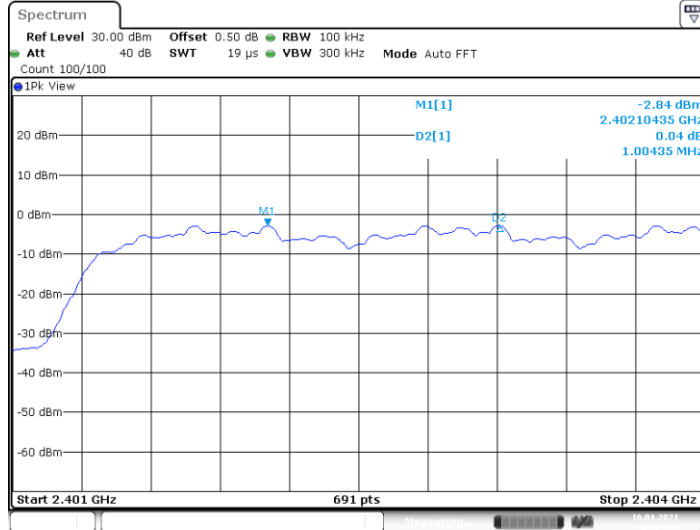
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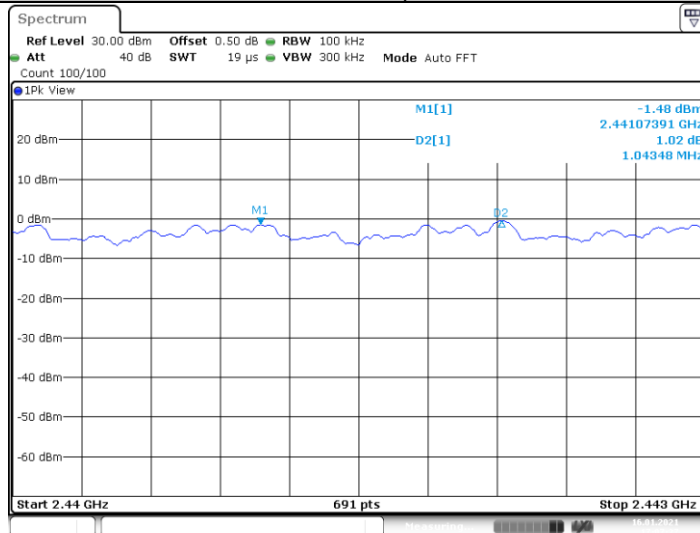




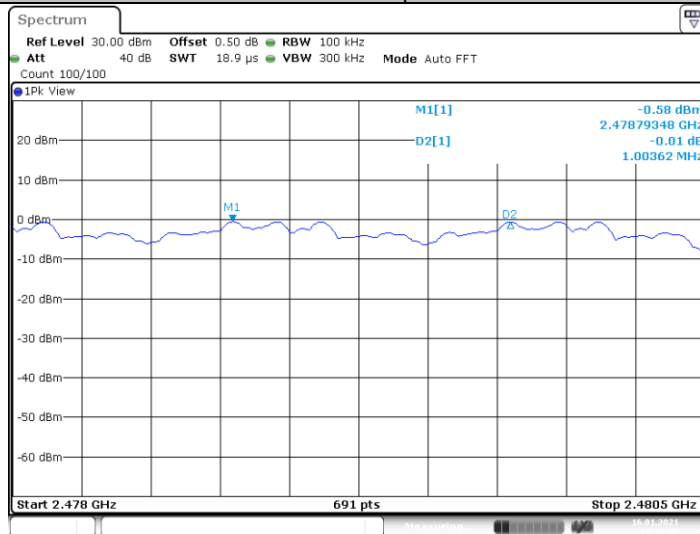
3DH5_Ant1_Hop_2402



3DH5_Ant1_Hop_2441



3DH5_Ant1_Hop_2480



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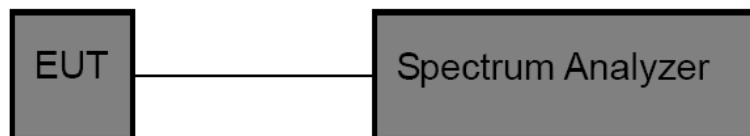
3.6. Number of Hopping Channel

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(iii)/ RSS-247 5.1 d:

Section	Test Item	Limit
15.247 (a)(iii)/ RSS-247 5.1 d:	Number of Hopping Channel	>15

Test Configuration



Test Procedure

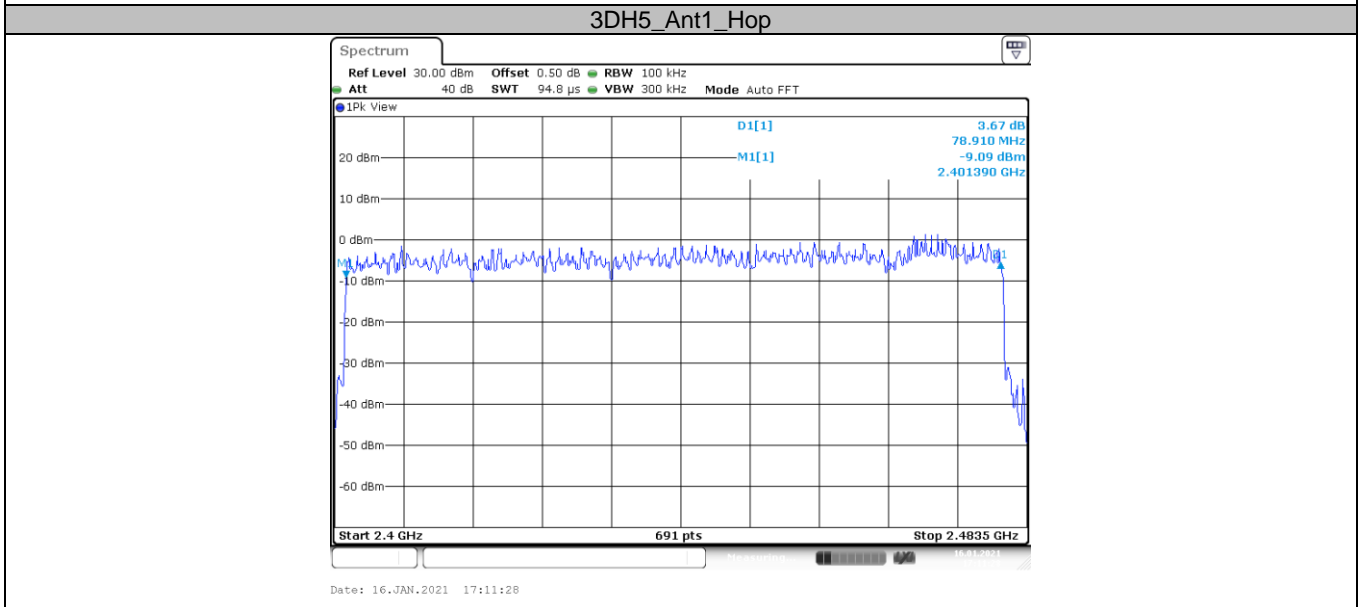
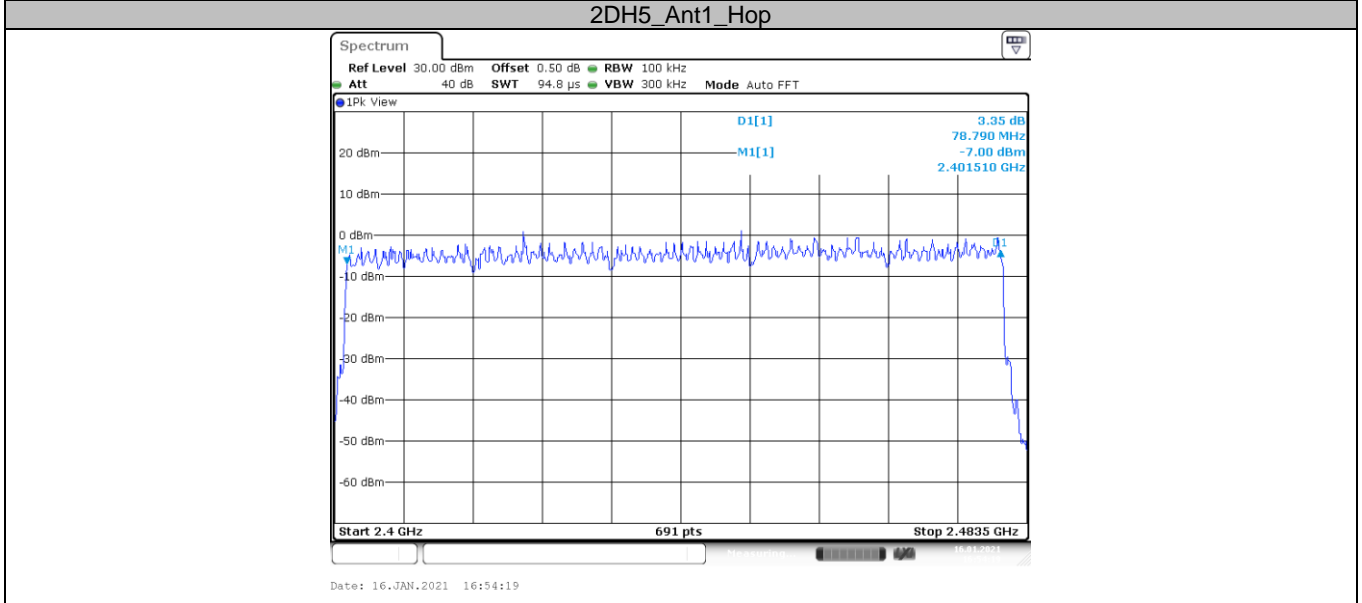
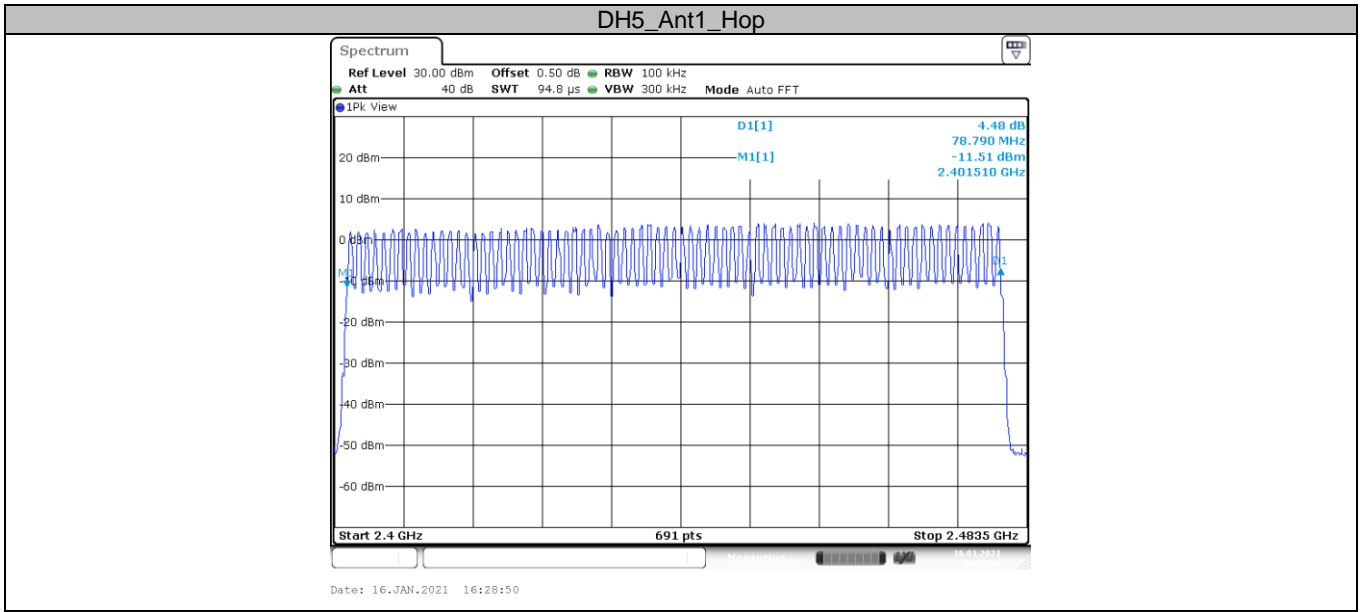
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- Spectrum Setting:
 - Peak Detector: RBW=100 kHz, VBW \geq RBW, Sweep time= Auto.

Test Mode

Please refer to the clause 2.3.

Test Result

Modulation type	Channel number	Limit	Result
GFSK	79	≥ 15.00	Pass
$\pi/4$ -DQPSK	79		
8DPSK	79		



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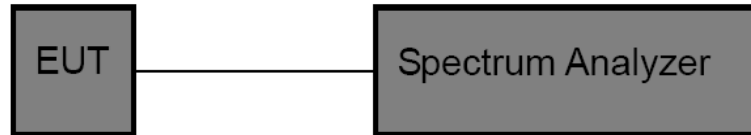


3.7. Dwell Time

Limit

Section	Test Item	Limit
15.247(a)(iii)/ RSS-247 5.1 d	Average Time of Occupancy	0.4 sec

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Spectrum Setting: RBW=1MHz, VBW \geq RBW.
 - (2) Use video trigger with the trigger level set to enable triggering only on full pulses.
 - (3) Sweep Time is more than once pulse time.
 - (4) Set the center frequency on any frequency would be measure and set the frequency span to zero.
 - (5) Measure the maximum time duration of one single pulse.
 - (6) Set the EUT for packet transmitting.

Test Mode

Please refer to the clause 2.3.

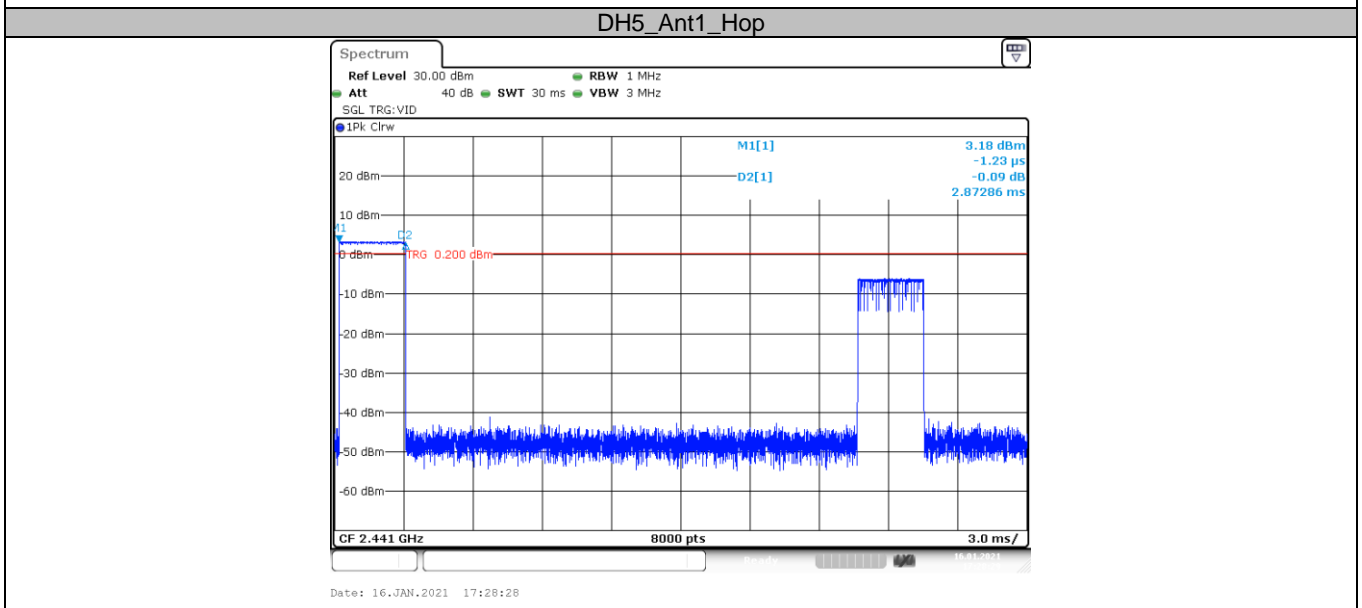
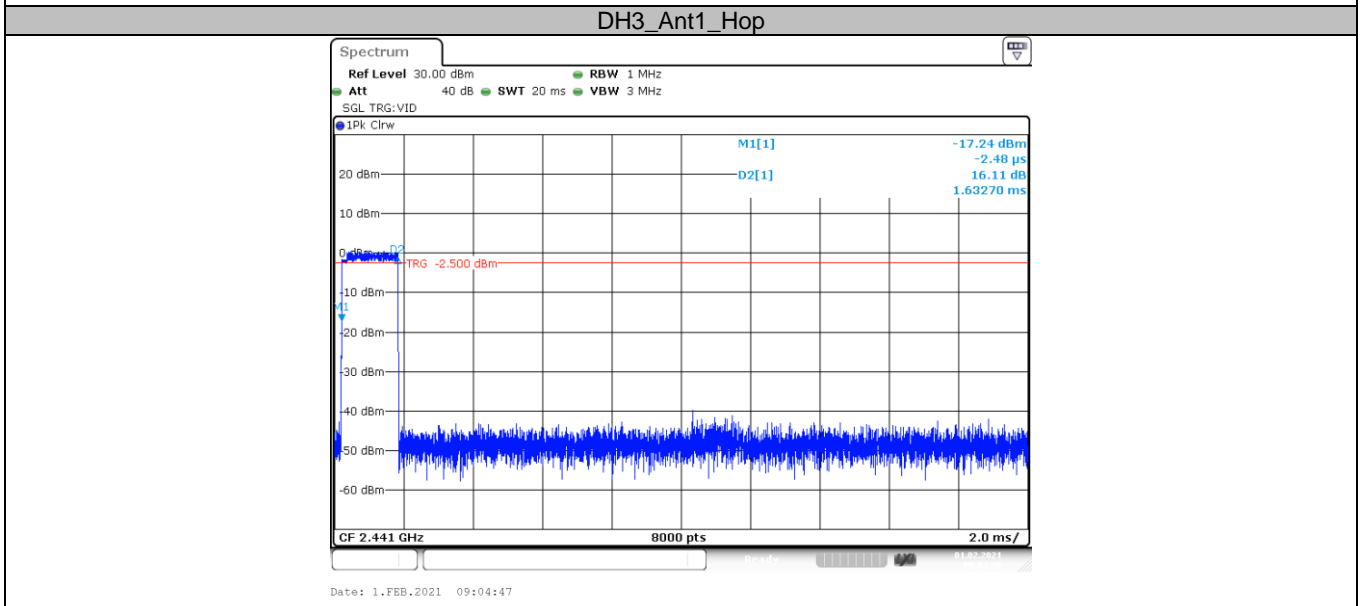
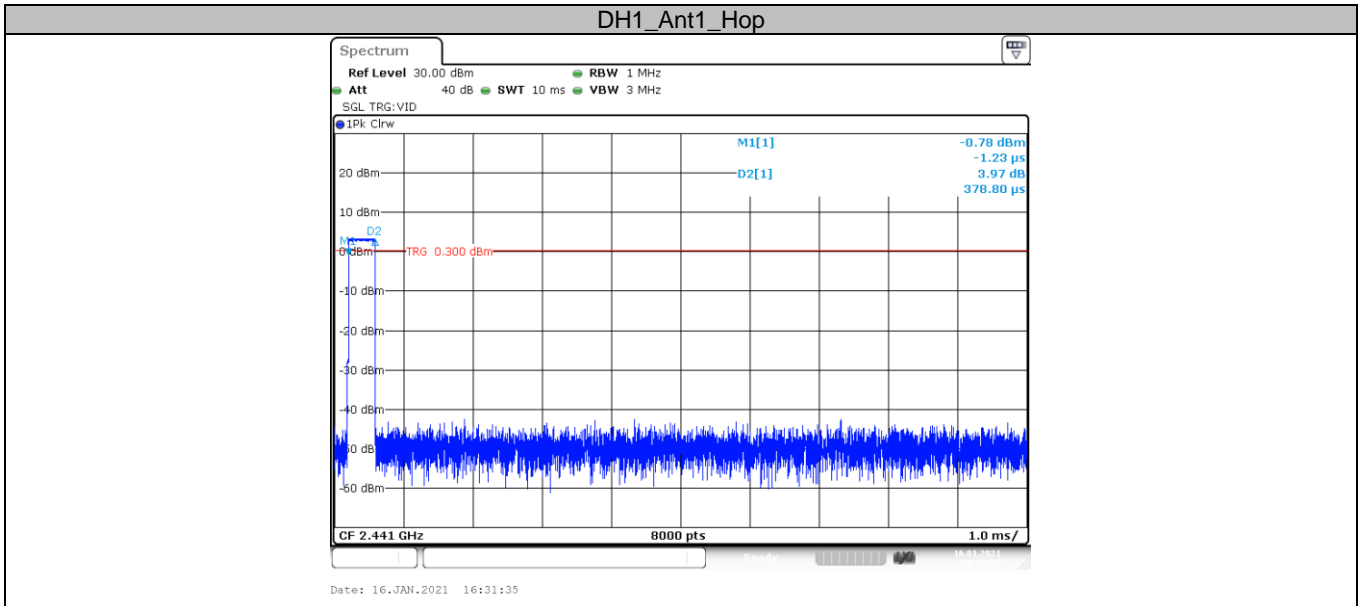
**Test Result**

Modulation type	Channel	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (ms)	Limit (Second)	Result
GFSK	DH1	2441	0.38	121.6	31.60	≤ 0.40	Pass
	DH3	2441	1.63	260.8	31.60		
	DH5	2441	2.87	306.1	31.60		
π/4-DQPSK	2DH1	2441	0.39	124.8	31.60	≤ 0.40	Pass
	2DH3	2441	1.63	160.8	31.60		
	2DH5	2441	2.88	307.2	31.60		
8-DPSK	3DH1	2441	0.39	124.8	31.60	≤ 0.40	Pass
	3DH3	2441	1.63	160.8	31.60		
	3DH5	2441	2.88	307.2	31.60		

Note: 1DH1/ 2DH1/3DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

1DH3/2DH3/3DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79

1DH5/2DH5/3DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79



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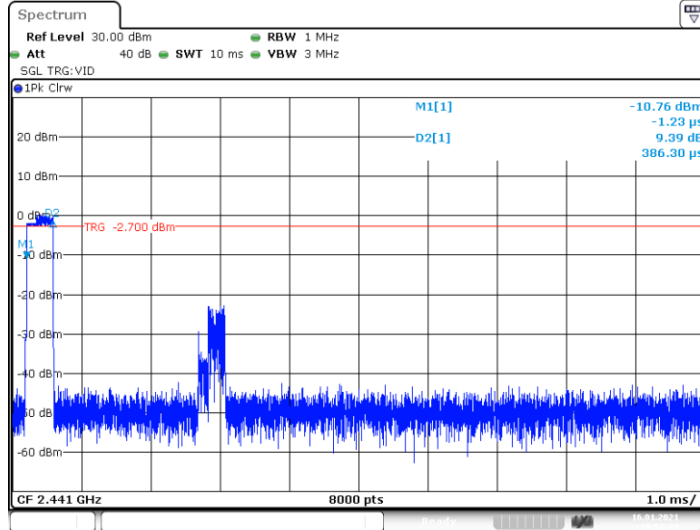
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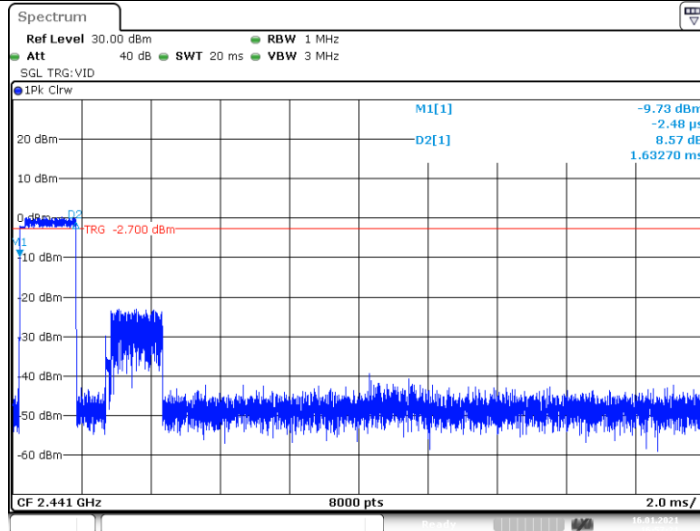




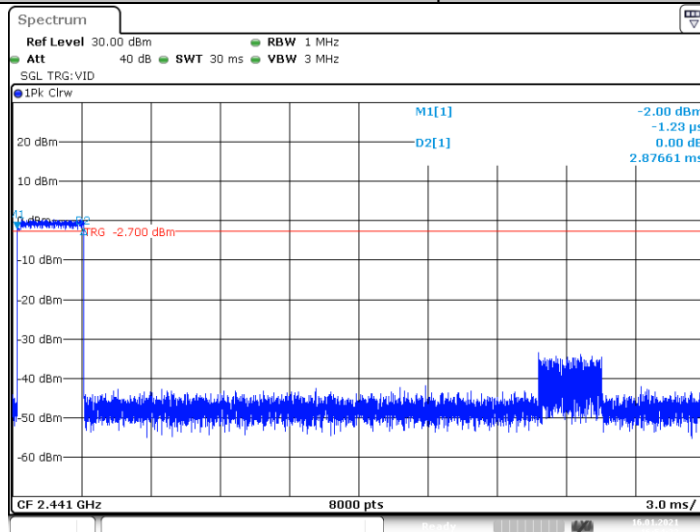
2DH1_Ant1_Hop



2DH3_Ant1_Hop



2DH5_Ant1_Hop



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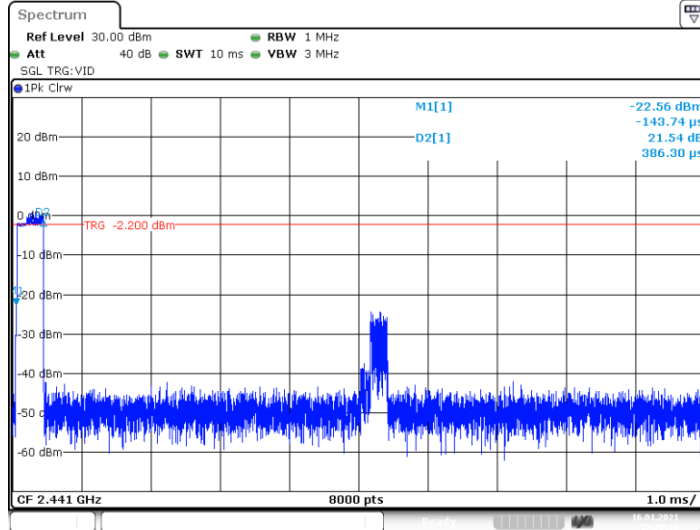
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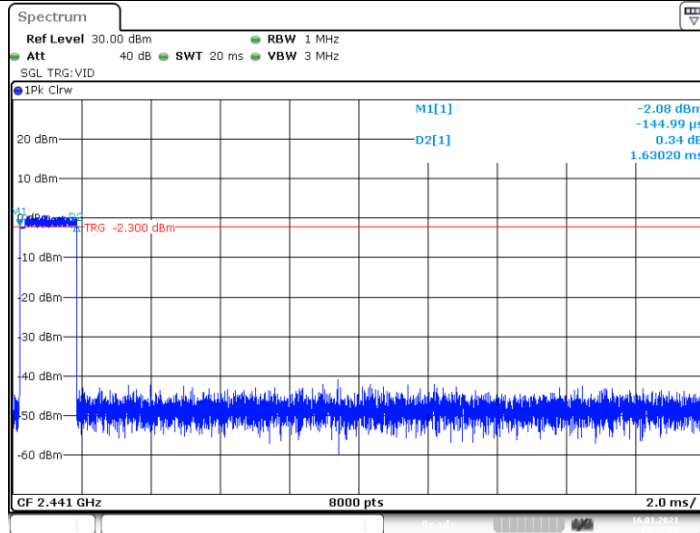


3DH1_Ant1_Hop



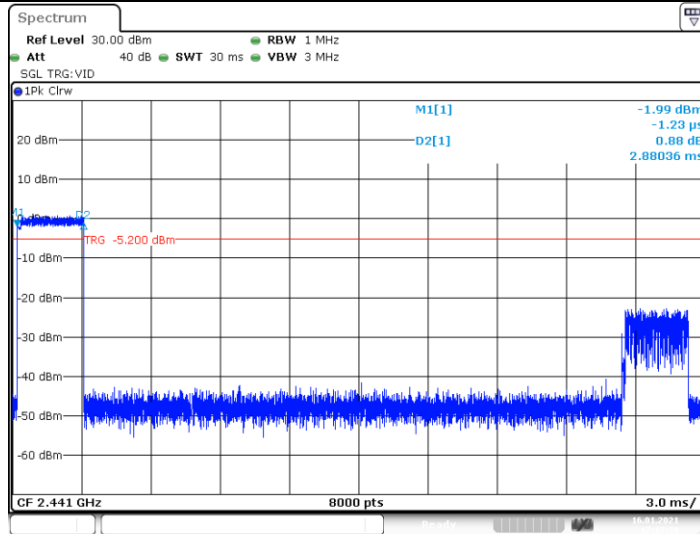
Date: 16.JAN.2021 17:20:15

3DH3_Ant1_Hop



Date: 16.JAN.2021 17:25:22

3DH5_Ant1_Hop



Date: 16.JAN.2021 17:17:38

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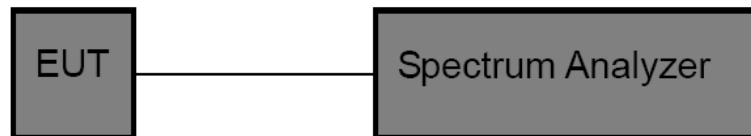
3.8. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1) / RSS-247 5.4 b:

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125mW(21dBm)	2400~2483.5

Test Configuration



Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- Spectrum Setting:
Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz.
RBW=3 MHz, VBW=3 MHz for bandwidth more than 1MHz.

Test Mode

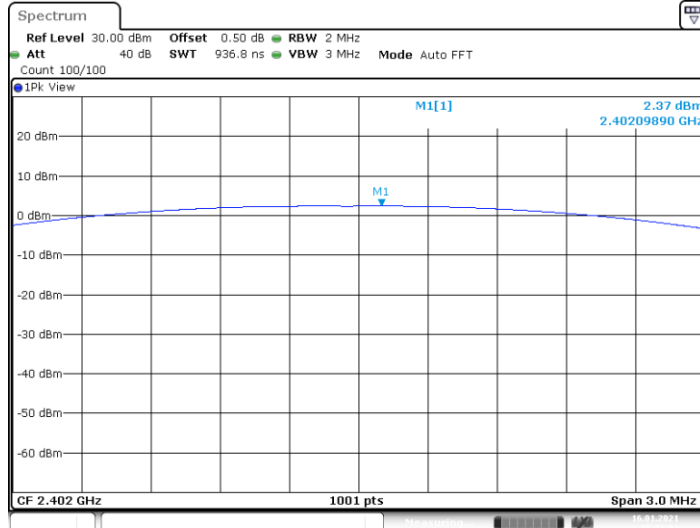
Please refer to the clause 2.3.

Test Result

Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.37	≤ 30.00	Pass
	39	3.87		
	78	-9.14		
π/4-DQPSK	00	0.12	≤ 21.00	Pass
	39	1.08		
	78	1.71		
8-DPSK	00	0.4	≤ 21.00	Pass
	39	1.57		
	78	2.17		

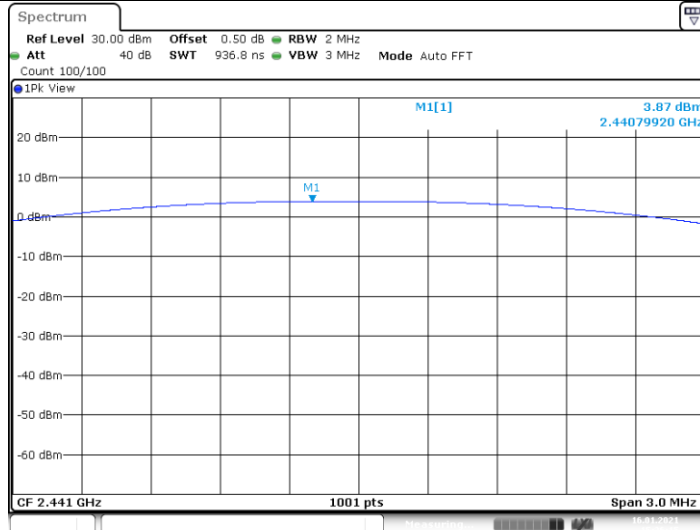


DH5_Ant1_2402



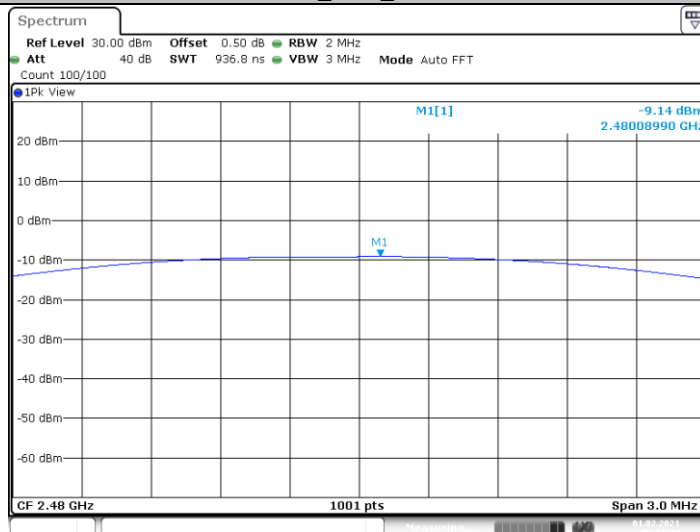
Date: 16.JAN.2021 15:33:02

DH5_Ant1_2441



Date: 16.JAN.2021 15:36:15

DH5_Ant1_2480



Date: 1.FEB.2021 09:11:38

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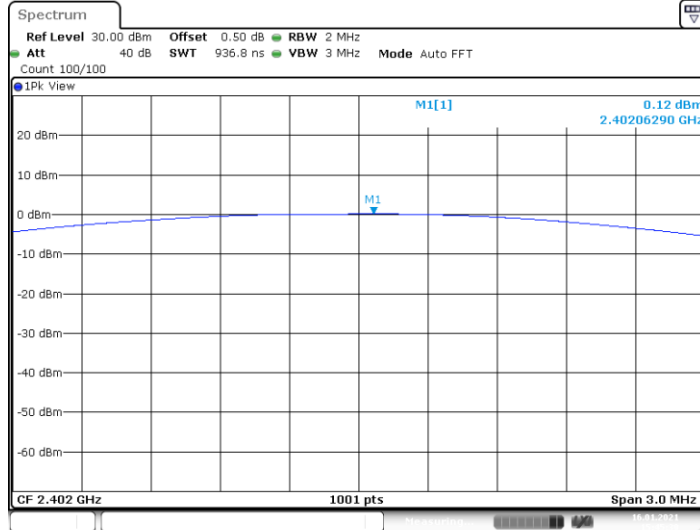
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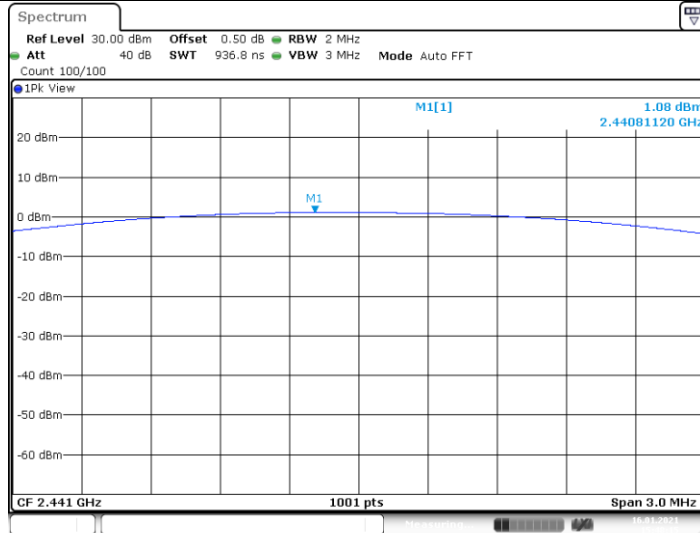


2DH5_Ant1_2402



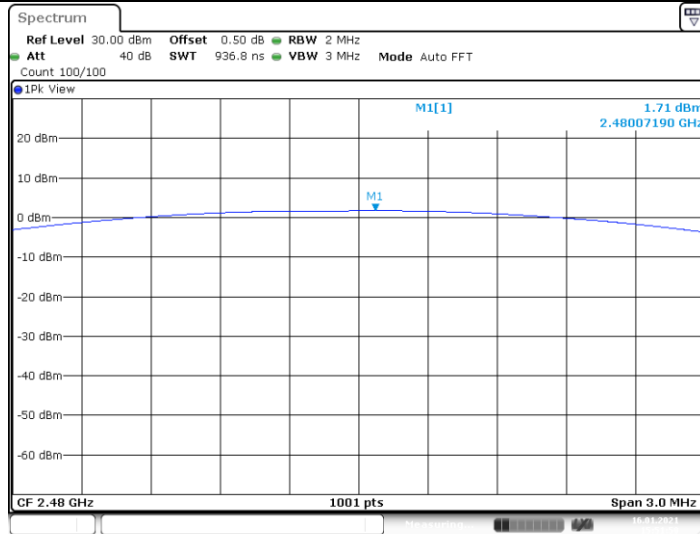
Date: 16.JAN.2021 15:45:30

2DH5_Ant1_2441



Date: 16.JAN.2021 15:48:15

2DH5_Ant1_2480



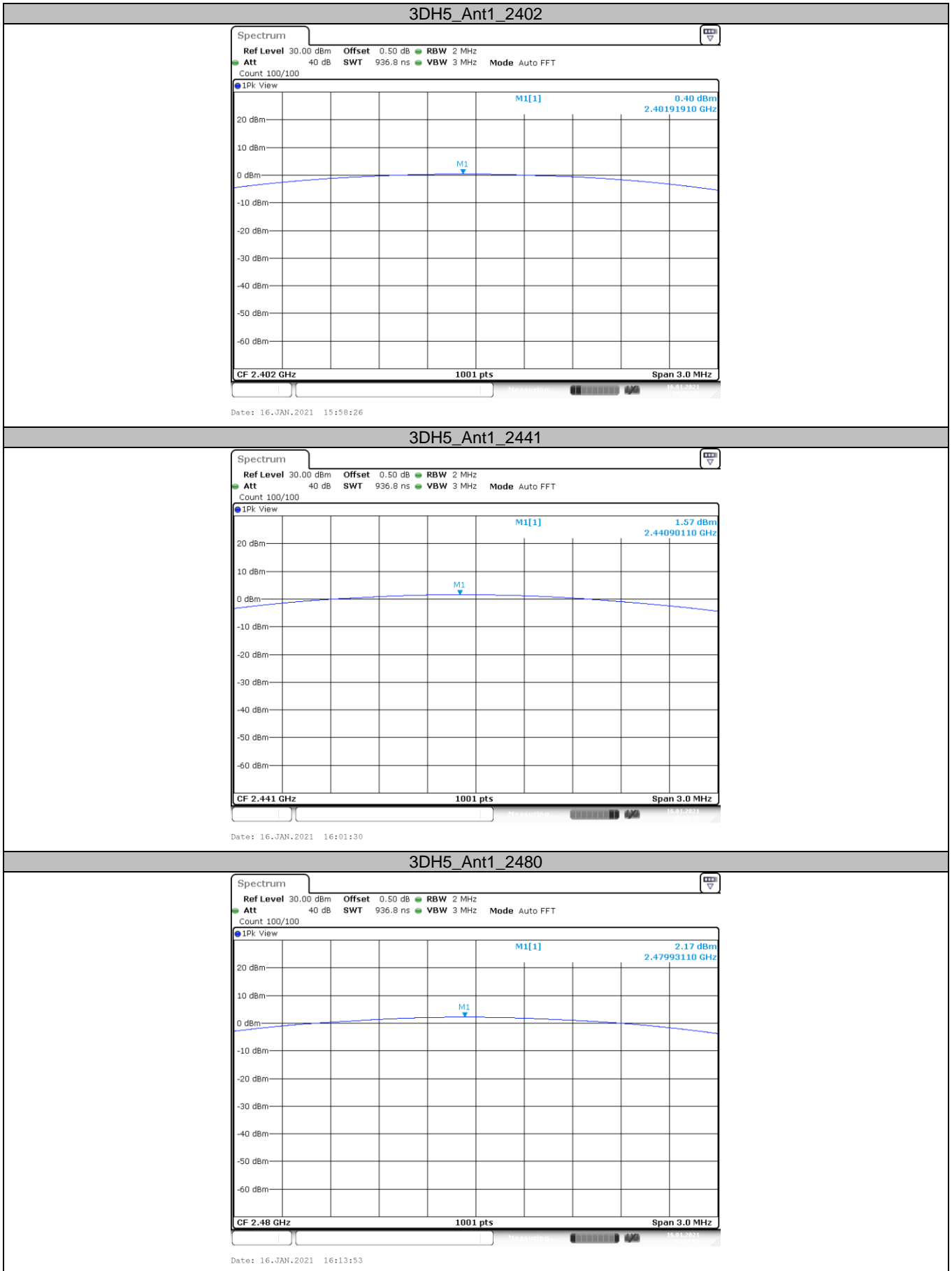
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3.9. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****