

3DH5\_Ant1\_2402 MultiView Spectrum 
 Ref Level 20.00 dBm
 Offset 11.25 dB = RBW 3 MHz

 Att
 25 dB
 SWT
 1.01 ms
 VBW 10 MHz
 Mode :
unt 100/100 0.74 dB 10 dBm M dB 10 dBr -20 dBm -30 dBr -40 dBr -50 dBr -60 dBm -70 dBn CF 2.402 GHz 1001 pts 800.0 kHz/ Span 8.0 MHz \* 1 06:02:45 24.08.2023 3DH5 Ant1 2441 MultiView Spectrum 
 Ref Level 20.00 dBm
 Offset 11.09 dB ● RBW
 3 MHz

 Att
 25 dB
 SWT
 1.01 ms ● VBW
 10 MHz
 Mode
40 896 10 0 10 dBm M 0 dB 10 dBn -20 dBr -30 dBr -40 dBn -50 dBr -60 dBm -70 dBm CF 2.441 GHz 1001 pts 800.0 kHz/ Span 8.0 MHz ÷ 06:04:48 24.08.2023 3DH5\_Ant1\_2480 MultiView Spectrum • 1.30 d 480 048 00 10 dBm 0 dBm -10 dBn -20 dBm -30 dBr -40 dBm -50 dBr -60 dBm -70 dBm Span 8.0 MHz CF 2.48 GHz 1001 pt 800.0 kHz/ ..... 06:07:01 24.08.2023

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### 9.6 CONDUCTED SUPRIOUS EMISSION

#### 9.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-247.5.5

#### 9.6.2 Conformance 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

# Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.

Set the RBW = 100 kHz. Set the VBW  $\ge$  3 x RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conduceted level.

Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

## Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW  $\geq$  1% of the span=100kHzSet VBW  $\geq$ 3 x RBW

Set Sweep = autoSet Detector function = peakSet Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

# Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz).Set RBW = 100 kHzSet VBW  $\geq$  RBW

Set Sweep = autoSet Detector function = peakSet Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

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### 9.6.5 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

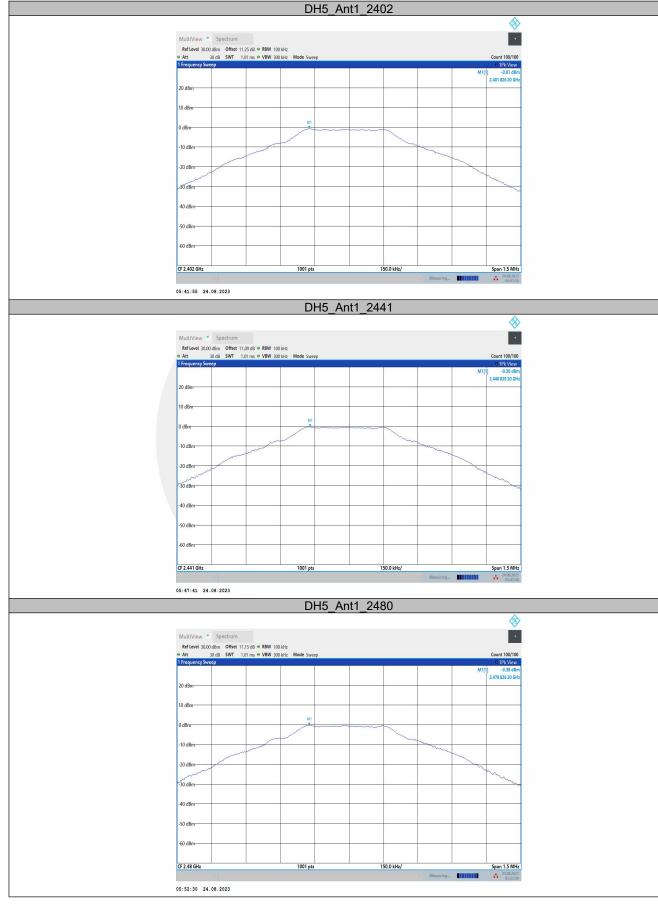
Note: N/A

All the antenna(Antenna 1) and modes(GFSK,  $\pi$ /4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst(Antenna 1,GFSK, Hopping) resultrecorded was report as below:

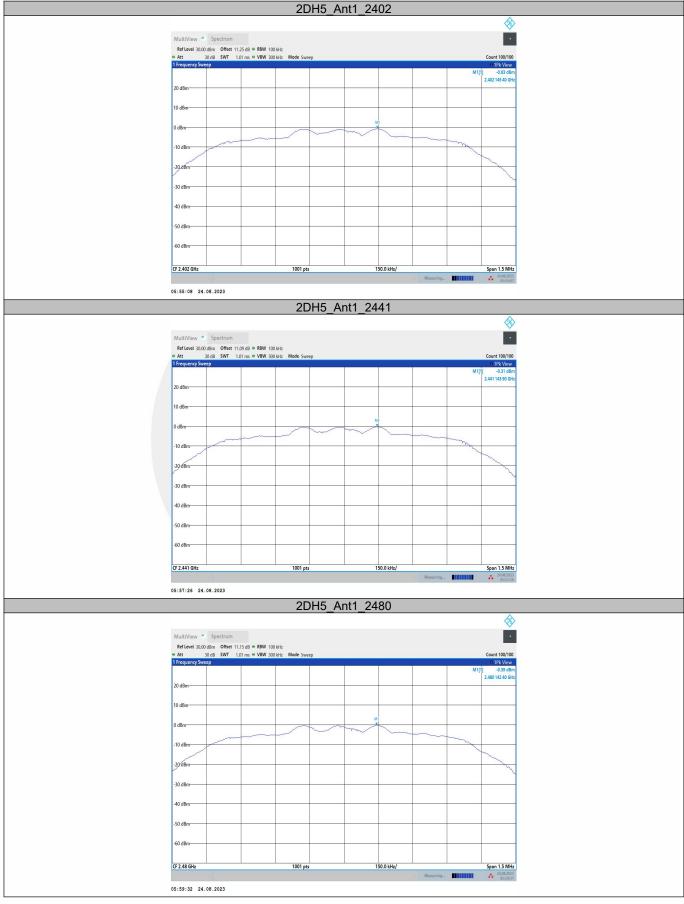
#### **Reference level measurement**

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
		2402	2401.83	-0.81
DH5	Ant1	2441	2440.83	-0.30
		2480	2479.83	-0.38
		2402	2402.15	-0.83
2DH5	Ant1	2441	2441.14	-0.31
		2480	2480.14	-0.39
		2402	2401.83	-0.86
3DH5	Ant1	2441	2440.83	-0.34
		2480	2479.83	-0.41





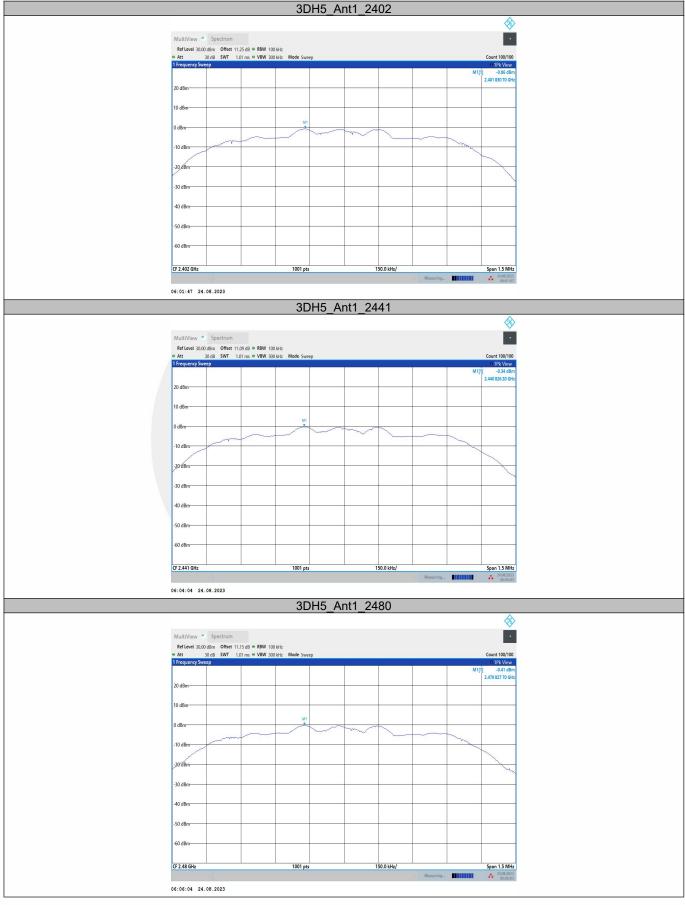




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Report No. ENS2307280229W00101R



TeetMede	Antonno	Chlama		RefLevel	Result	Limit	Verdiet			
TestMode	Antenna	ChName	Frequency[MHz]	[dBm]	[dBm]	[dBm]	Verdict			
		Low	2402	-0.81	-49.79	≤-20.81	PASS			
DH5	Ant1	High	2480	-0.38	-49.19	≤-20.38	PASS			
	Anti	Low	Hop_2402	-0.87	-49.82	≤-20.87	PASS			
			High	Hop_2480	-0.56	-49.96	≤-20.56	PASS		
	Ant1	Low	2402	-0.83	-49.34	≤-20.83	PASS			
2DH5		High	2480	-0.39	-49.67	≤-20.39	PASS			
2005	Ant1	Low	Hop_2402	-0.91	-51.29	≤-20.91	PASS			
		High	Hop_2480	-0.51	-51.37	≤-20.51	PASS			
	0	0	Low	2402	-0.86	-49.8	≤-20.86	PASS		
2045			011	High	2480	-0.41	-50.02	≤-20.41	PASS	
3DH5	Ant1	Low	Hop_2402	-4.16	-50.98	≤-24.16	PASS			
	-	High	Hop_2480	-0.84	-51.26	≤-20.84	PASS			

#### Band edge measurements



DH5\_Ant1\_Low\_2402 MultiView Spectrum 
 Ref Level
 15.00 dBm
 Offset
 11.25 dB
 € RBW
 100 kHz

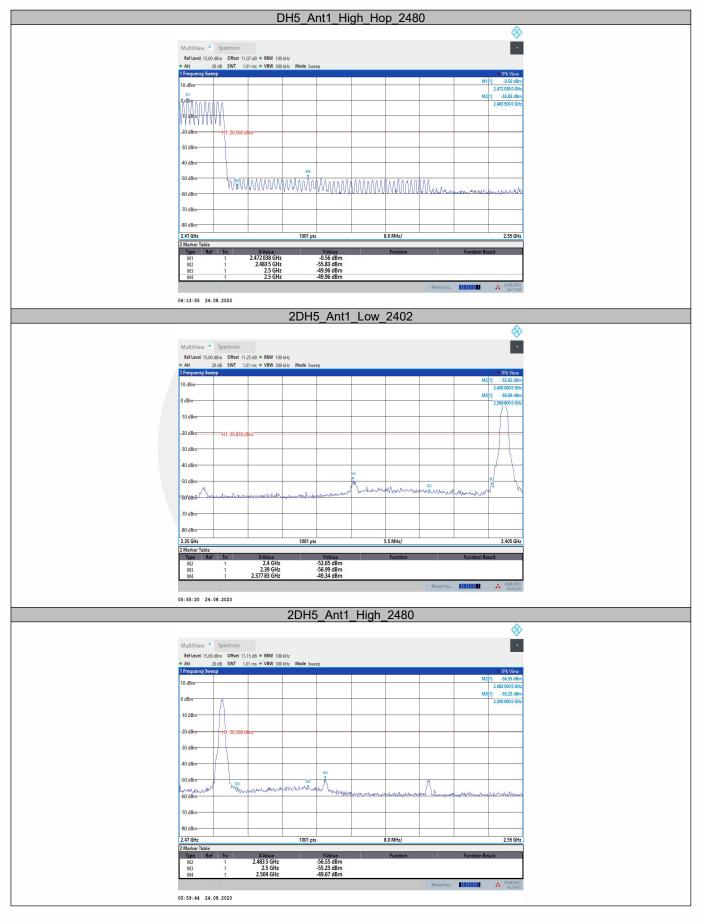
 Att
 20 dB
 SWT
 1.01 ms
 € VBW
 300 kHz
 Mode
10 dBm--56.86 d 0 dBm 000 G -10 dBm -20 dBm H1 -20,810 -30 dBr 40 dB -50 dBm 60 dBm 70 dBm -80 dBm 2.35 GHz 1001 pts 5.5 MHz/ 2.405 GHz X-Value 2.4 GHz 2.39 GHz 2.37805 GHz Y-Value -51.43 dBm -56.86 dBm -49.79 dBm M2 M3 M4 05:42:07 24.08.2023 DH5 Ant1 High 2480 MultiView Spectrum 
 Ref Level
 15.00 dBm
 Offset
 11.15 dB
 ● RBW
 100 kHz

 Att
 20 dB
 SWT
 1.01 ms
 ● VBW
 300 kHz
10 dBm 2.483 50 -55.23 d 0 dBm 2.500 000 0 G 10 dBr 20 dBr -20.38 -30 dBr -40 dBi -50 dBi Americant merning -60 dBm 70 dB -80 dBm 2.47 GHz 1001 pts 8.0 MHz/ 2.55 GHz X-Value 2.483 5 GHz 2.5 GHz 2.504 GHz Y-Value -57.08 dBm -55.23 dBm -49.19 dBm M2 M3 M4 05:52:42 24.08.2023 DH5\_Ant1\_Low\_Hop\_2402 MultiView Spectrum 
 Ref Level
 15.00 dBm
 Offset
 11.27 dB
 ● RBW
 100 kHz

 Att
 20 dB
 SWT
 1.01 ms
 ● VBW
 300 kHz
-0.87 d 2.401 841 0 52.23 d 10 dBm-0 dBm -10 dBm 1111 -20 dBm H1 -20.870 -30 dBm 40 dBr Thready Markow Wardward Markow Warden 50 dB 60 dBi -70 dBm -80 dBm 5.5 MHz/ 2.35 GHz 1001 pts 2.405 GHz X-Value 2.401 841 GHz 2.4 GHz 2.39 GHz 2.386 85 GHz Y-Value -0.87 dBm -52.23 dBm -50.76 dBm -49.82 dBm M1 M2 M3 M4 ÷ 06:07:29 24.08.2023



Access to the World



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Report No. ENS2307280229W00101R



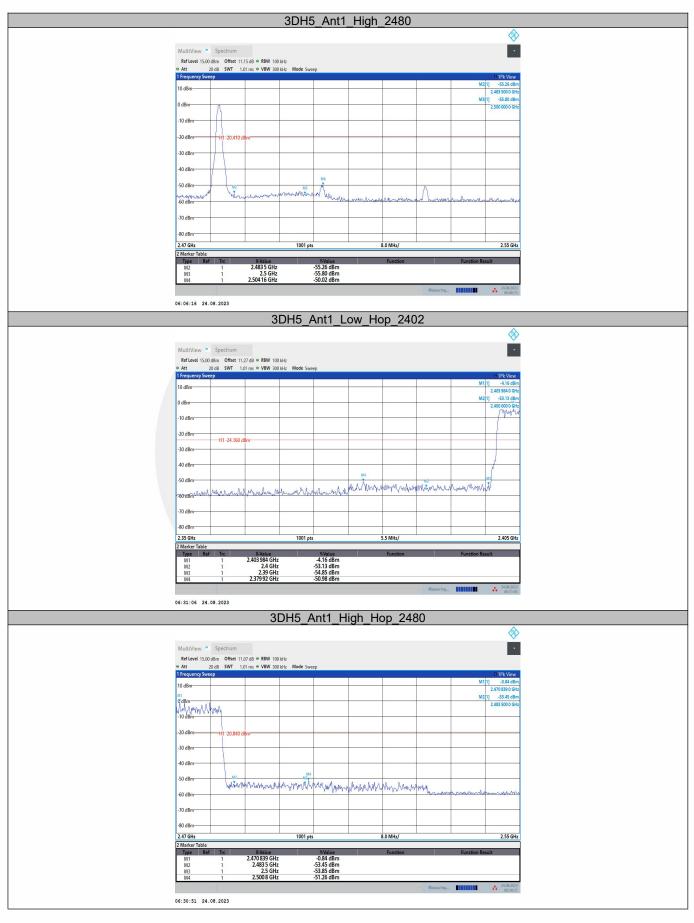
2DH5\_Ant1\_Low\_Hop\_2402 MultiView Spectrum 
 Ref Level
 15.00 dBm
 Offset
 11.27 dB
 ● RBW
 100 kHz

 Att
 20 dB
 SWT
 1.01 ms
 ● VBW
 300 kHz
 Mode
10 dBm \$5.50 0 dBm -10 dBm 20 dB H1 -20.910 30 dBn -40 dBr -50 dBr mintenent your anone we to have my manh A Marelly ALANN 60 dBm -70 dBr -80 dBr 5.5 MHz/ 1001 pts 2.405 GHz 2.35 GHz X-Value 2.402 17 GHz 2.4 GHz 2.39 GHz 2.385 97 GHz V-Value -0.91 dBm -55.50 dBm -54.61 dBm -51.29 dBm M2 M3 M4 06:21:07 24.08.2023 2DH5 Ant1 High Hop 2480 MultiView Spectrun 
 Ref Level
 15.00 dBm
 Offset
 11.07 dB
 ● RBW
 100 kHz

 Att
 20 dB
 SWT
 1.01 ms
 ● VBW
 300 kHz
10 dBm -54.99 dt 2.483 500 0 G MAN MAN -20 dBi -30 dBm -40 dBr -50 dBr tor when the way and the second and the second and the second s -60 dBm -70 dBm -80 dBn 1001 pts 8.0 MHz/ 2.47 GHz 2.55 GHz X-Value 2.480 19 GHz 2.483 5 GHz 2.5 GHz 2.51112 GHz -0.51 dBm -54.99 dBm -53.98 dBm -51.37 dBm M1 M2 M3 M4 06:20:50 24.08.2023 3DH5\_Ant1\_Low\_2402 ..... MultiView Spectrum 
 Ref Level
 15.00 dBm
 Offset
 11.25 dB
 ➡ RBW
 100 kHz

 Att
 20 dB
 SWT
 1.01 ms
 ➡ VBW
 300 kHz
10 dBm 0 dBm 10 dBm 20 dB H1 -20.860 -30 dBr -40 dBr -50 dB moundation M3 No./Burken al./ -60 dBh -70 dBr -80 dBm 2.35 GHz 1001 pts 5.5 MHz/ 2.405 GHz X-Value 2.4 GHz 2.39 GHz 2.377 83 GHz Y-Value -50.74 dBm -56.45 dBm -49.80 dBm M2 M3 M4 06:01:59 24.08.2023





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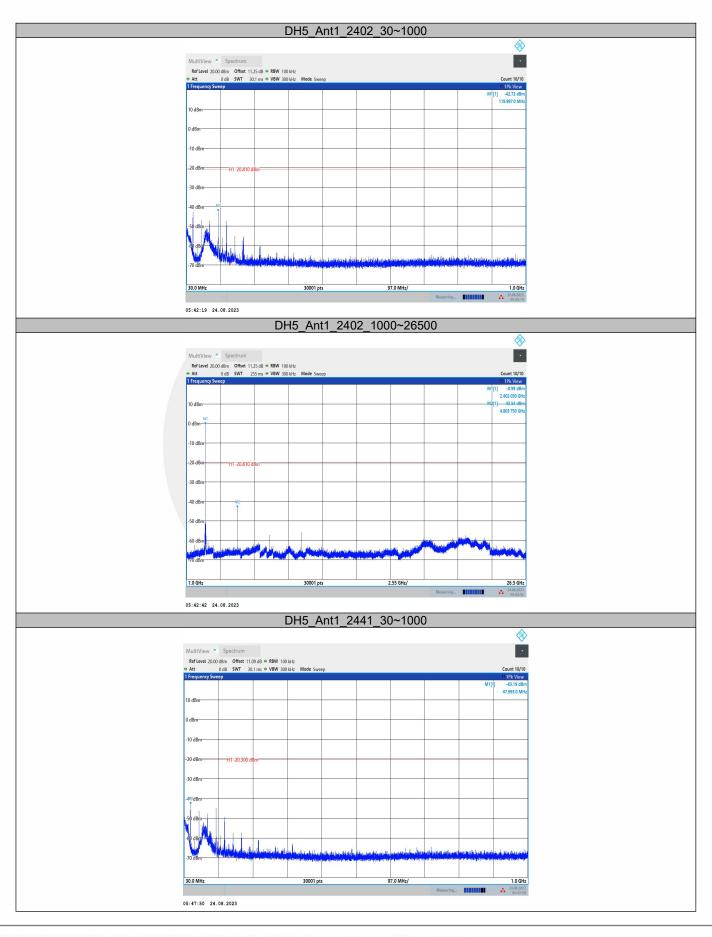
Report No. ENS2307280229W00101R



# **Conducted Spurious Emission**

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2402	30~1000	-0.81	-42.72	≤-20.81	PASS
		2402	1000~26500	-0.81	-43.54	≤-20.81	PASS
DH5	Ant1	2441	30~1000	-0.30	-43.19	≤-20.3	PASS
	Anti	2441	1000~26500	-0.30	-43.47	≤-20.3	PASS
		2480	30~1000	-0.38	-42.75	≤-20.38	PASS
		2400	1000~26500	-0.38	-42.34	≤-20.38	PASS
		2402	30~1000	-0.83	-43.04	≤-20.83	PASS
		2402	1000~26500	-0.83	-44.86	≤-20.83	PASS
2DH5	Apt1	nt1 2441	30~1000	-0.31	-42.24	≤-20.31	PASS
20115	Anti		1000~26500	-0.31	-44.91	≤-20.31	PASS
		2480	30~1000	-0.39	-42.35	≤-20.39	PASS
		2400	1000~26500	-0.39	-44.43	≤-20.39	PASS
		2402	30~1000	-0.86	-41.44	≤-20.86	PASS
		2402	1000~26500	-0.86	-45.1	≤-20.86	PASS
3DH5	Ant1	2441	30~1000	-0.34	-42.14	≤-20.34	PASS
3003	Anti	2441	1000~26500	-0.34	-45.42	≤-20.34	PASS
		2480	30~1000	-0.41	-41.41	≤-20.41	PASS
		2400	1000~26500	-0.41	-44.68	≤-20.41	PASS





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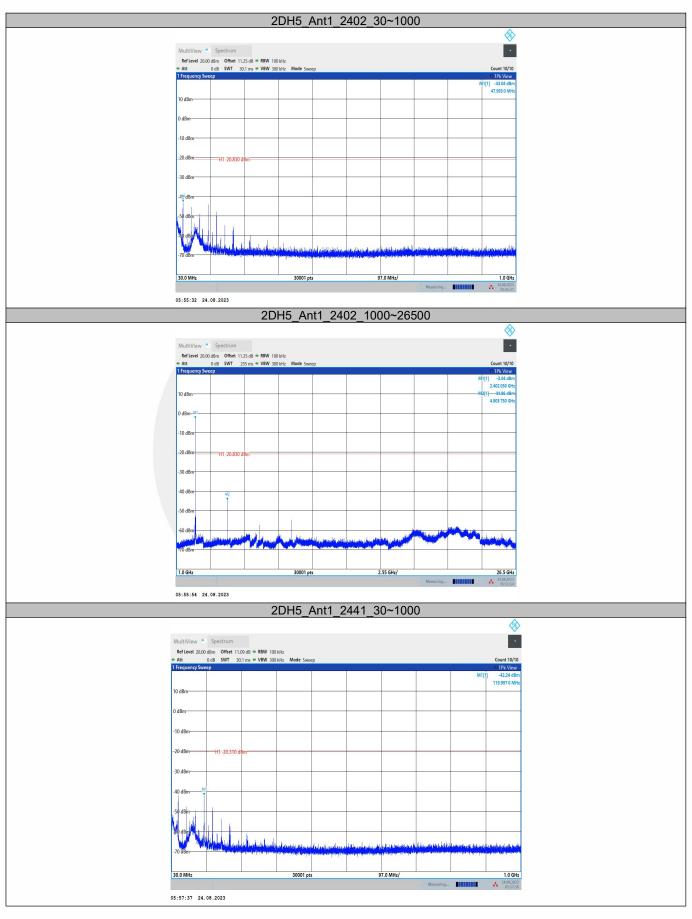
DH5\_Ant1\_2441\_1000~26500 MultiView Spectrum 
 Ref Level
 20.00 dBm
 Offset
 11.09 dB
 ● RBW
 100 kHz

 Att
 0 dB
 SWT
 255 ms
 ● VBW
 300 kHz
 Mode
Count 10/10 -0.66 d 2.441 130 G 10 dBm 43.47 d 4.881 950 G 0 dBr 10 dBr -20 dBr H1 -20.300 -30 dB -40 dE 50 dB -60 df 1.0 GHz 30001 pts 2.55 GHz/ 26.5 GHz . 2 05:48:13 24.08.2023 DH5 Ant1 2480 30~1000 MultiView Spectrum 
 Ref Level 20,00 dBm
 Offset 11,15 dB
 RBW 100 kHz

 Att
 0 dB
 SWT
 30.1 ms
 VBW 300 kHz
 Mode Swith
Count 10/10 [1] -42.75 dBn 47.993 0 MH 10 dBe ) dBm 10 dBn 20 dB -30 dBr ashada. I 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz ÷ 05:52:53 24.08.2023 DH5 Ant1 2480 1000~26500 Spectre • MultiView ] -0.32 df 2.480 230 G ]---42.34 df 4.959 300 G 10 dB 0 dBm -10 dBr -20 dBr 30 dB 40 dB 50 dBr 1.0 GHz 30001 pts 2.55 GHz/ 26.5 GHz λ. 05:53:15 24.08.2023

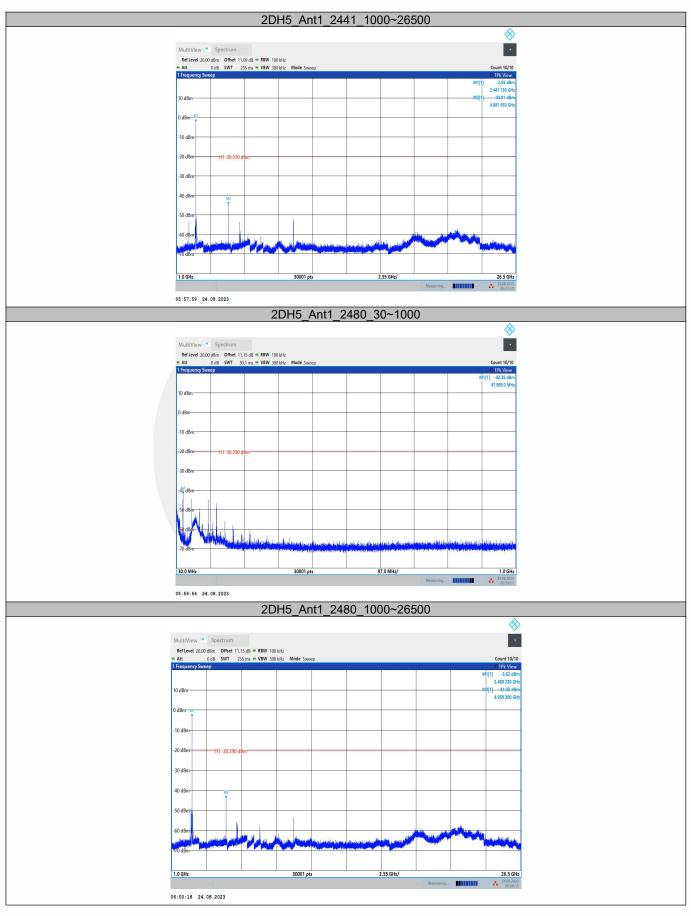
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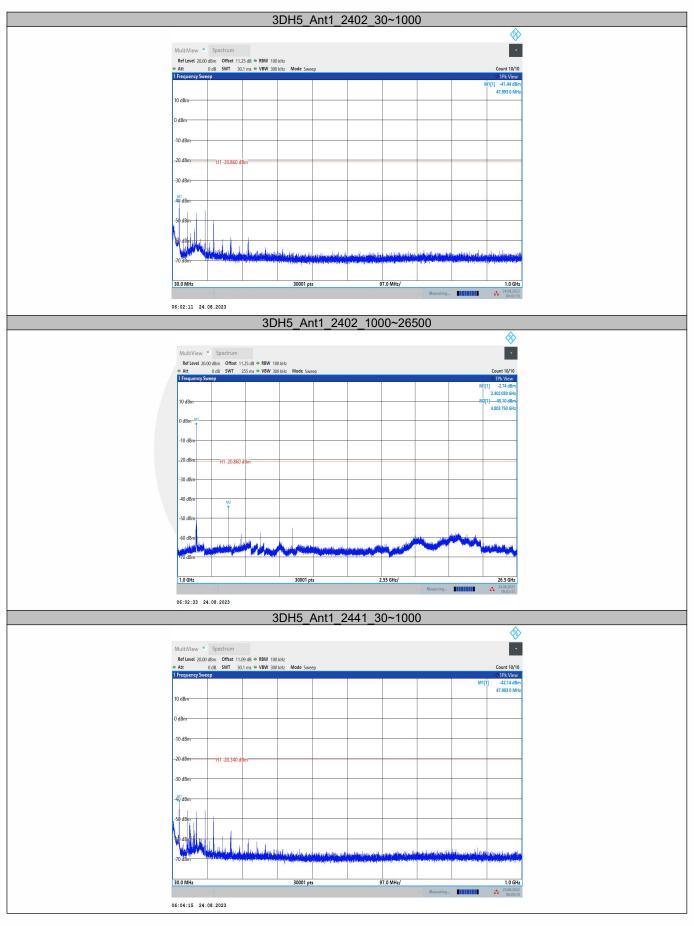
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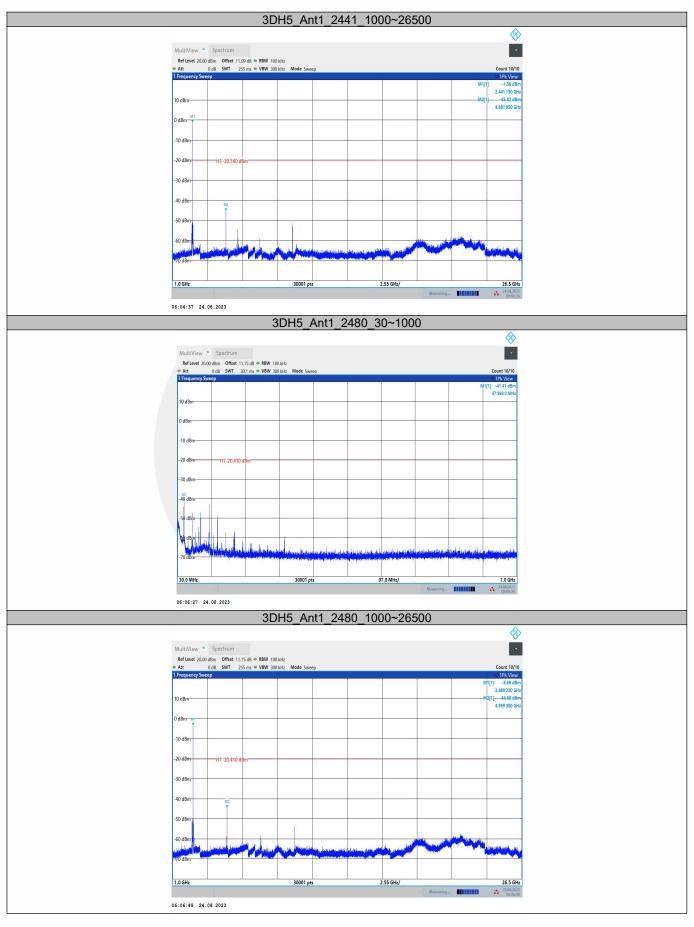
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#### 9.7 RADIATED SPURIOUS EMISSION

#### 9.7.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-Gen and RSS-247

#### 9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205. Restricted bands

According to FUC Part 15.	205, Restricted bands		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	12.51975-12.52025 240-285		36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	216-960 200		3
Above 960 500		54	3

## 9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

# 9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz $VBW \ge RBW$ 

Sweep = auto

Detector function = peak

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Trace = max hold For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHz for  $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 30MHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 9kHz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 150KHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 200Hz  $\mathsf{VBW} \geq \mathsf{RBW}$ Sweep = auto Detector function = peak Trace = max hold Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT.

measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

## 9.7.5 Test Results

	Spurious	Emission	below	30MHz	(9KHz to	30MHz)
--	----------	----------	-------	-------	----------	--------

Temperature:	22° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol.	Emis Level(d	sion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

Spurious Emission Above 1GHz(1GHz to 25GHz)



All the antenna(Antenna 1) and modes(GFSK,  $\pi$ /4-DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) resultrecorded was report as below:

Test mode:	GFS	GFSK		ency:	0: 2402MHz	2402MHz	
Freq. (MHz)	Ant.Pol.	Emis Level(d	sion BuV/m)	Limit 3m(	dBuV/m)	Ove	r(dB)
	H/V	PK	AV	PK	AV	PK	AV
11435.6	V	59.84	42.33	74.00	54.00	14.16	11.67
14715	V	64.07	44.21	74.00	54.00	9.93	9.79
17970	V	67.03	47.15	74.00	54.00	6.97	6.85
11490	Н	60.26	42.78	74.00	54.00	13.74	11.22
14630.6	Н	64.52	46.00	74.00	54.00	9.48	8.00
17960.6	Н	67.74	46.93	74.00	54.00	6.26	7.07

Test mode:	GFS	K Freque		icy: Channel 39: 2441N			<u>z</u>
Freq.	Ant.Pol.	Emission Lev	rel(dBuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
11503.1	V	60.15	43.12	74.00	54.00	13.85	10.88
14670	V	63.54	45.17	74.00	54.00	10.46	8.83
17598.7	V	67.59	47.36	74.00	54.00	6.41	6.64
11508.7	Н	59.87	42.88	74.00	54.00	14.13	11.12
14645.6	Н	64.17	45.47	74.00	54.00	9.83	8.53
17956.8	Н	67.95	47.03	74.00	54.00	6.05	6.97

Test mode:	GFS	K Freque		cy: Channel 78: 2480MHz			
Freq.	Ant.Pol.	Emission Lev	rel(dBuV/m) Limit 3m(		(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
11366.2	V	60.16	42.02	74.00	54.00	13.84	11.98
14587.5	V	64.24	46.14	74.00	54.00	9.76	7.86
17985	V	67.88	47.00	74.00	54.00	6.12	7.00
11467.5	Н	60.64	37.46	74.00	54.00	13.36	16.54
14621.2	Н	64.22	45.80	74.00	54.00	9.78	8.20
17647.5	Н	67.31	47.75	74.00	54.00	6.69	6.25

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(GFSK,  $\pi$ /4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst(Antenna 1,GFSK, Hopping) resultrecorded was report as below:

Test mode:	GFSK	Frequency:		annel 0: 2402MH	Ζ
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2387.41	Н	44.7	74.00	39.14	54.00
2389.09	V	44.68	74.00	38.98	54.00

Test mode:	GFSK	Frequency: Ch		annel 78: 2480MHz		
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	
2483.59	Н	46.04	74.00	37.85	54.00	
2483.63	V	45.74	74.00	38.27	54.00	

Test mode:	GFSK	Frequency: Hopping			
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.50	н	31.80	74.00	31.22	54.00
2483.50	V	31.62	74.00	31.13	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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