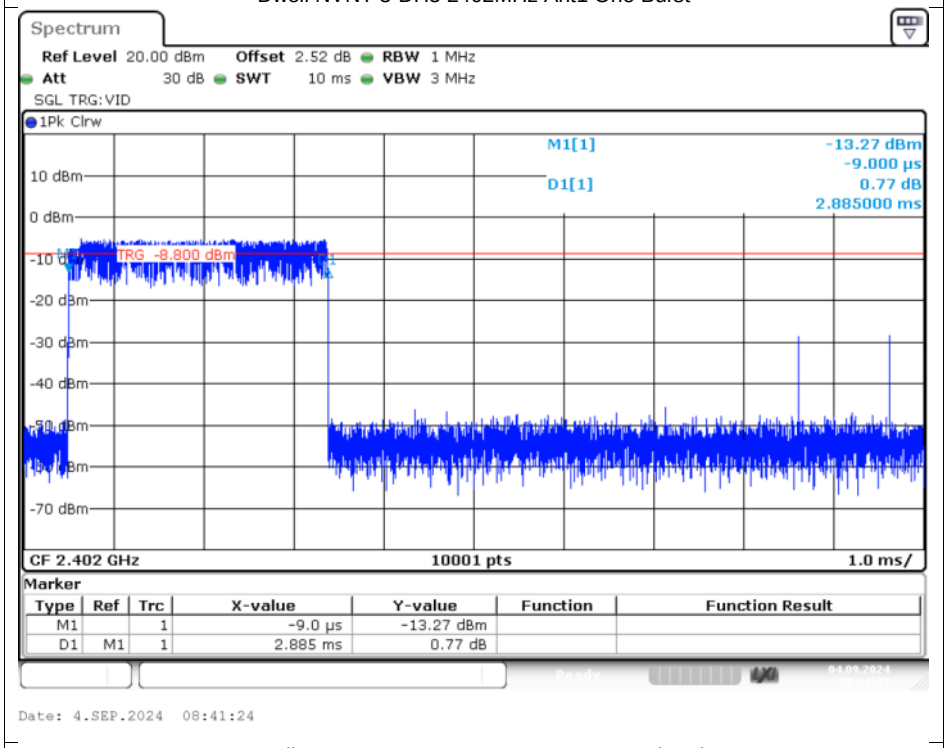
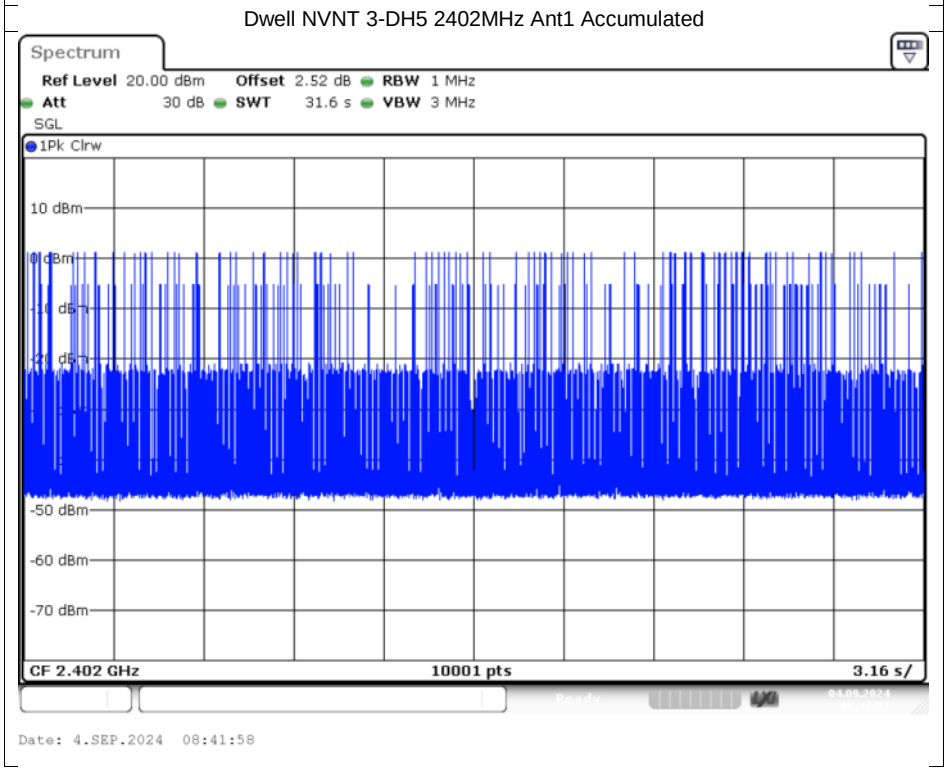
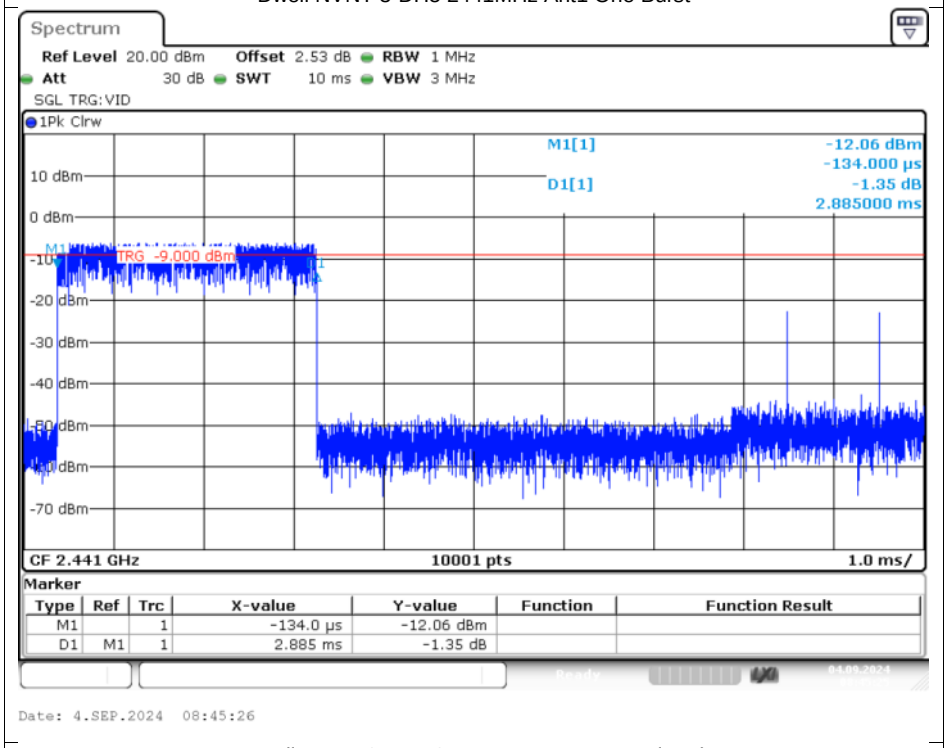
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



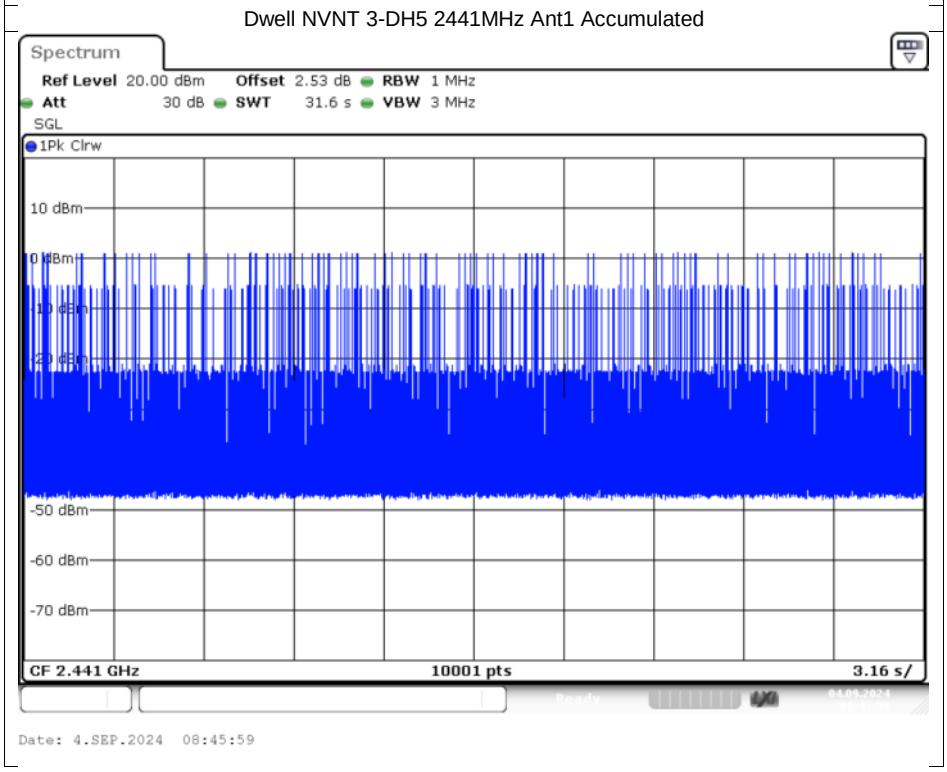
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



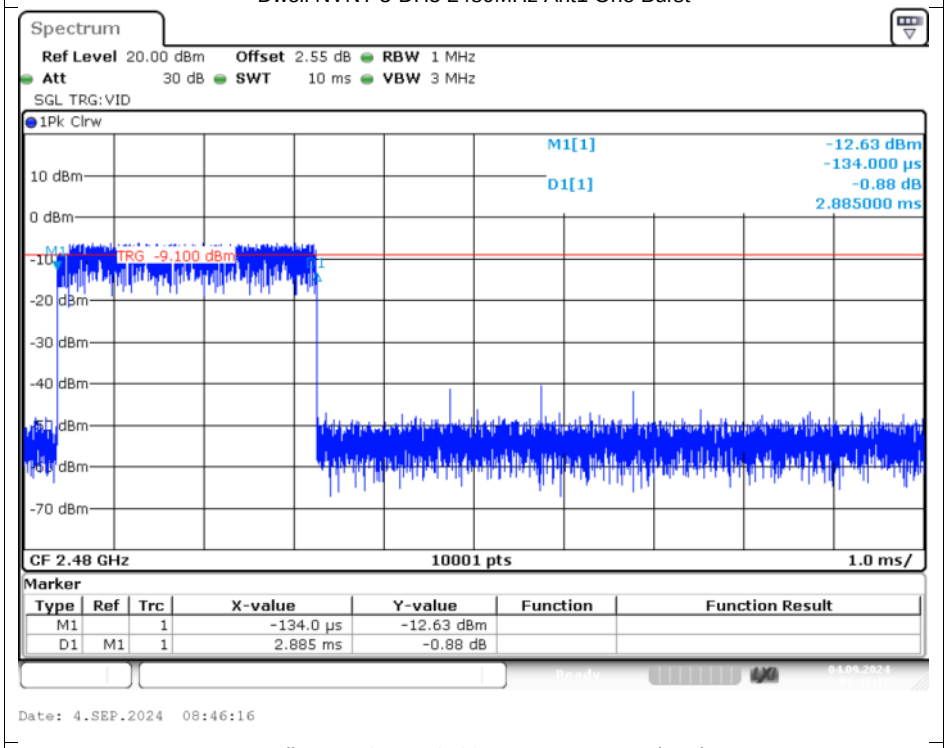
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



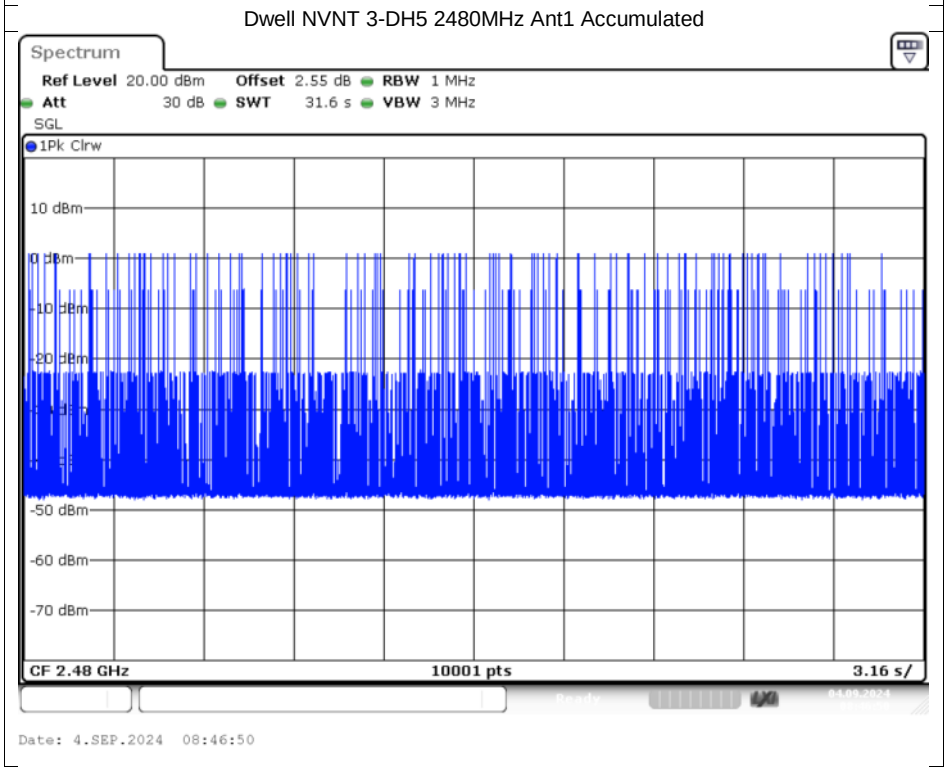
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

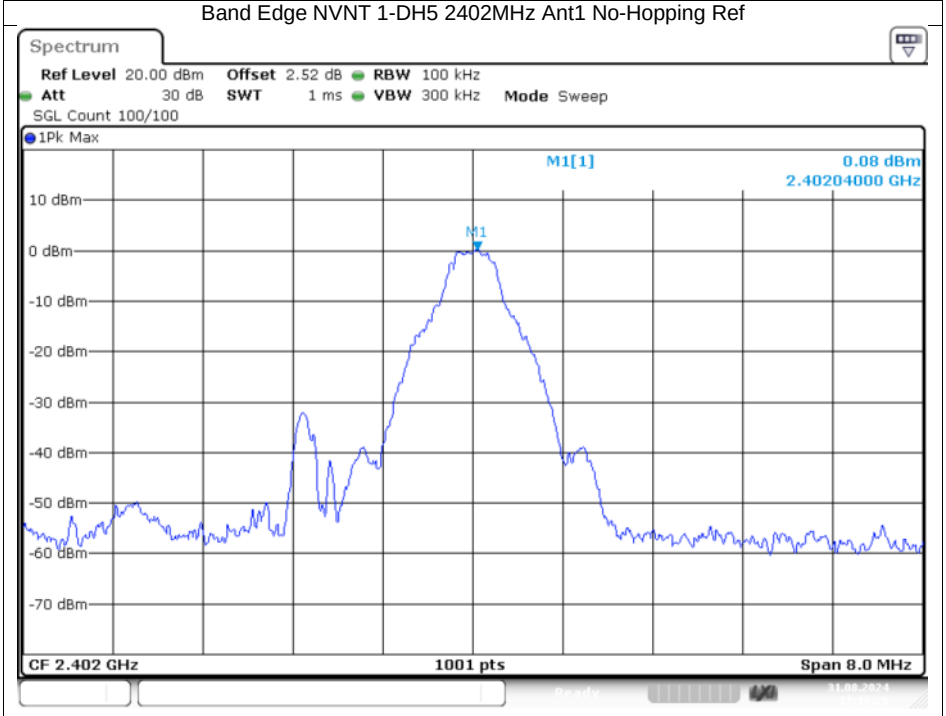


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.22	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.51	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.89	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.84	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-41.41	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-41.97	-20	Pass

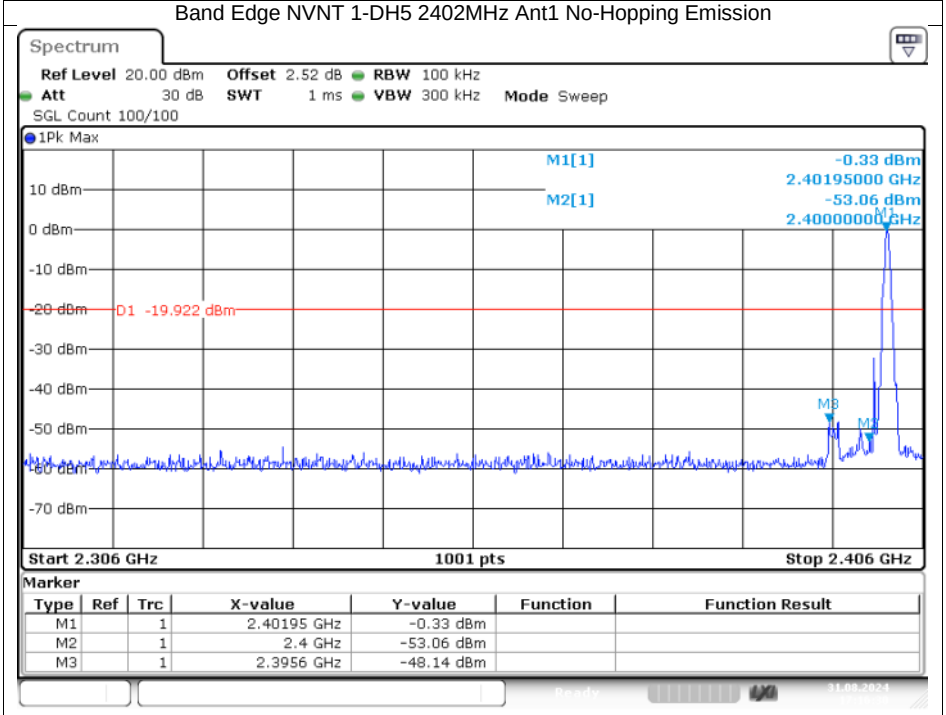
Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Date: 31.AUG.2024 17:16:26

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

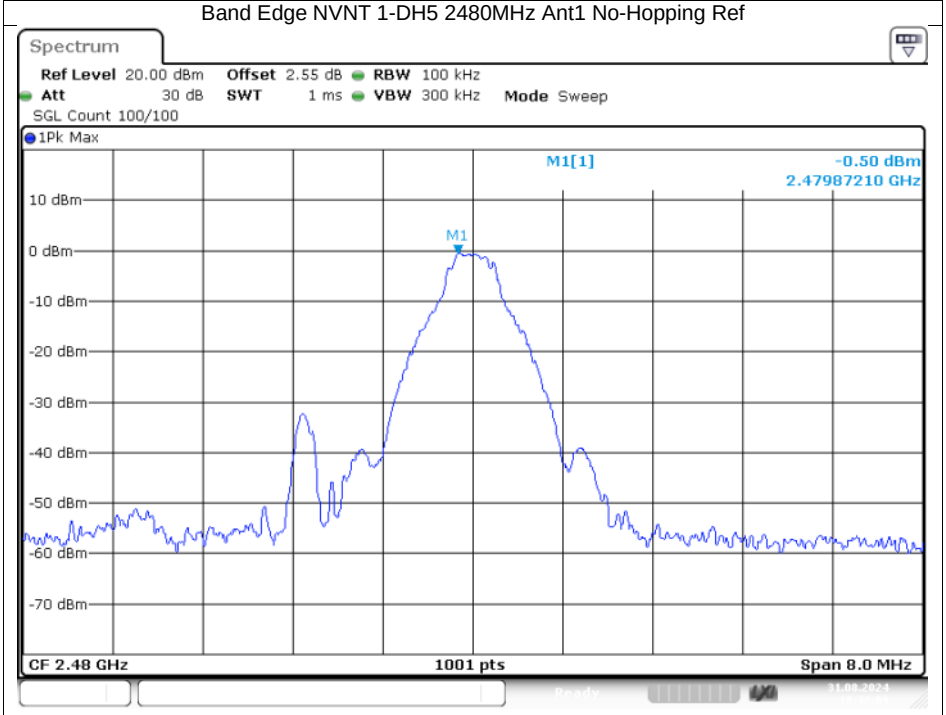


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40195 GHz	-0.33 dBm		
M2		1	2.4 GHz	-53.06 dBm		
M3		1	2.3956 GHz	-48.14 dBm		

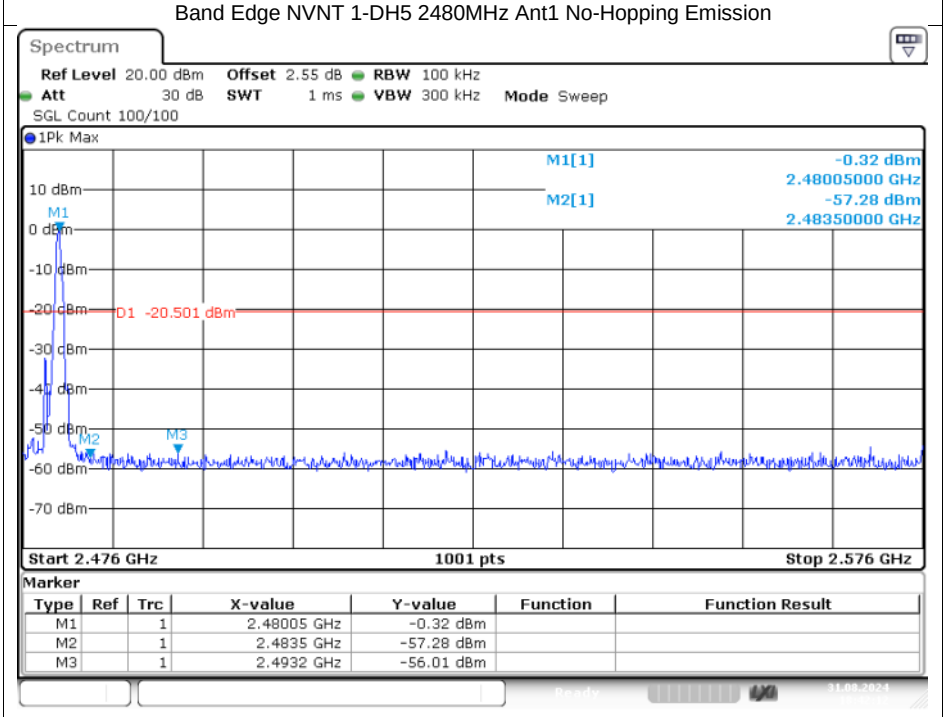
Date: 31.AUG.2024 17:16:30

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Date: 31.AUG.2024 18:42:09

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

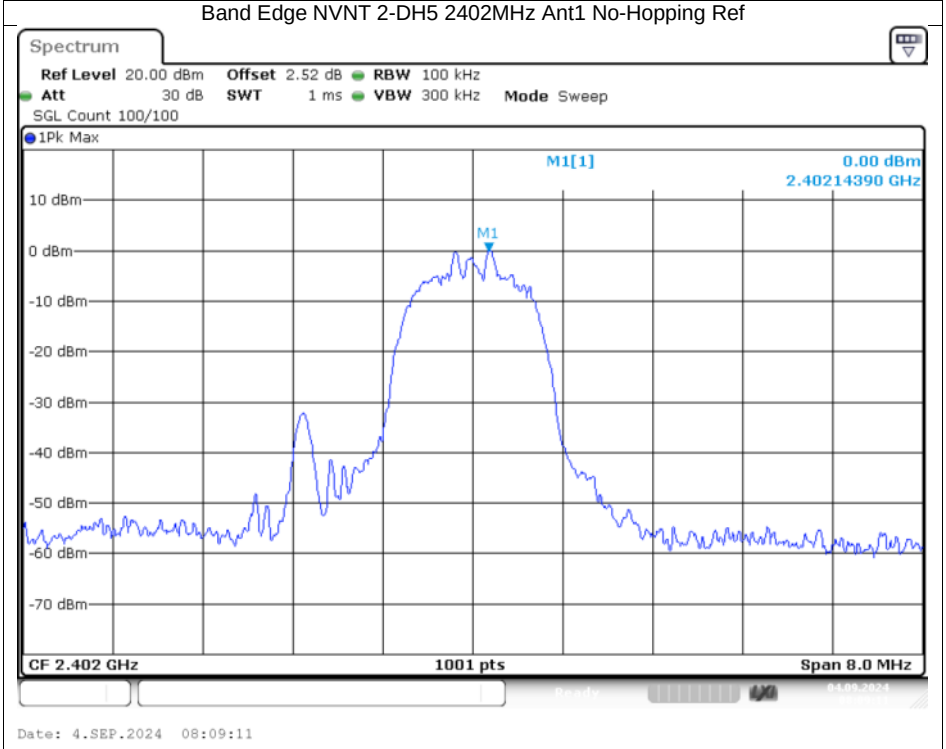


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48005 GHz	-0.32 dBm		
M2		1	2.4835 GHz	-57.28 dBm		
M3		1	2.4932 GHz	-56.01 dBm		

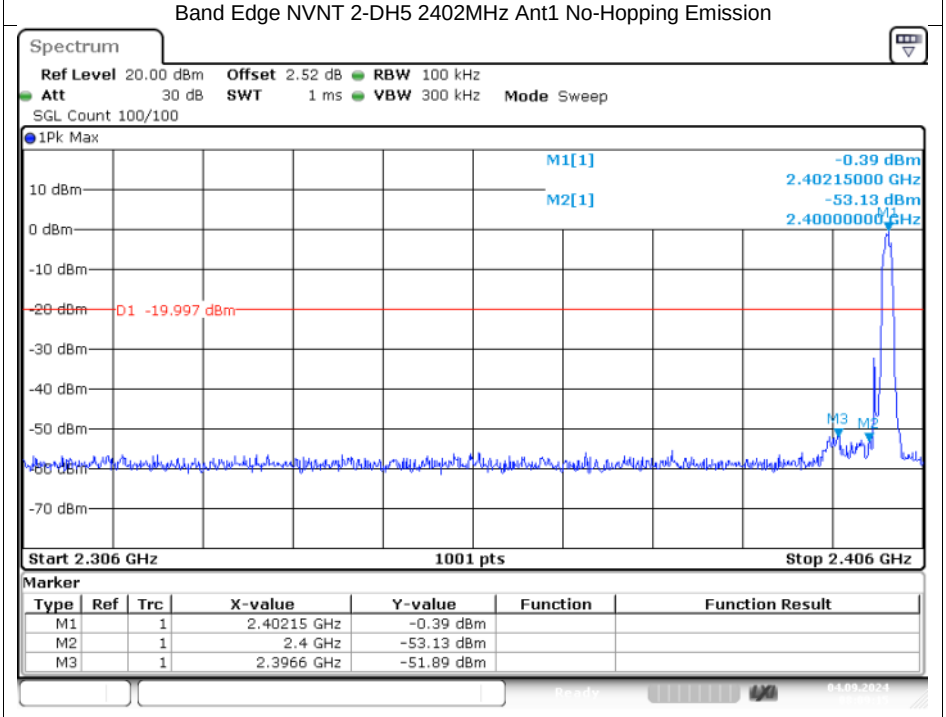
Date: 31.AUG.2024 18:42:12

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Date: 4.SEP.2024 08:09:11

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

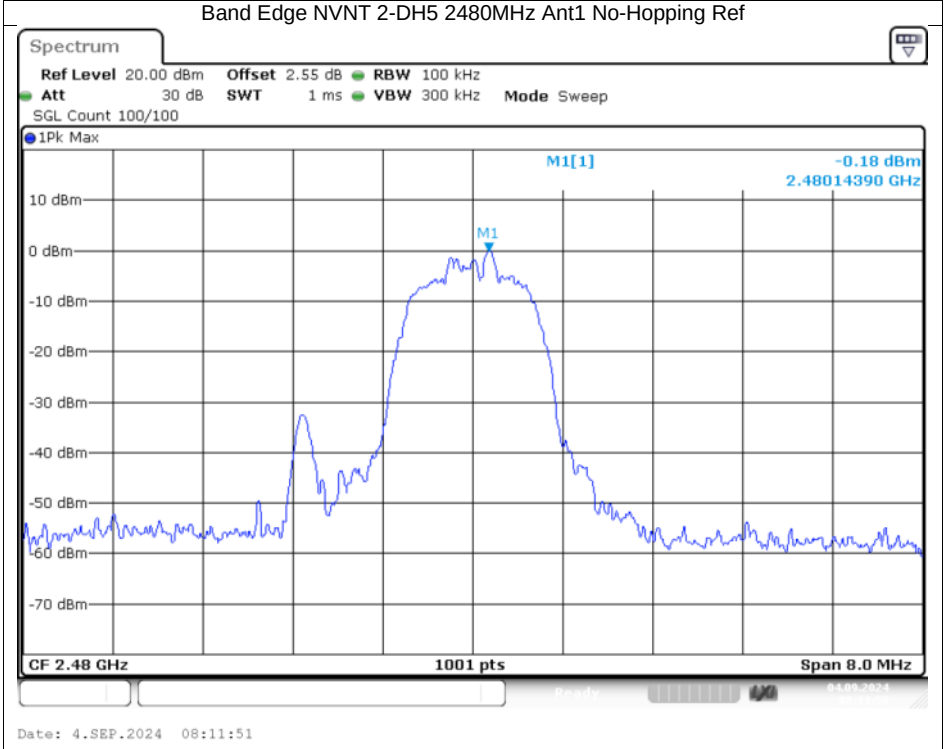


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40215 GHz	-0.39 dBm		
M2		1	2.4 GHz	-53.13 dBm		
M3		1	2.3966 GHz	-51.89 dBm		

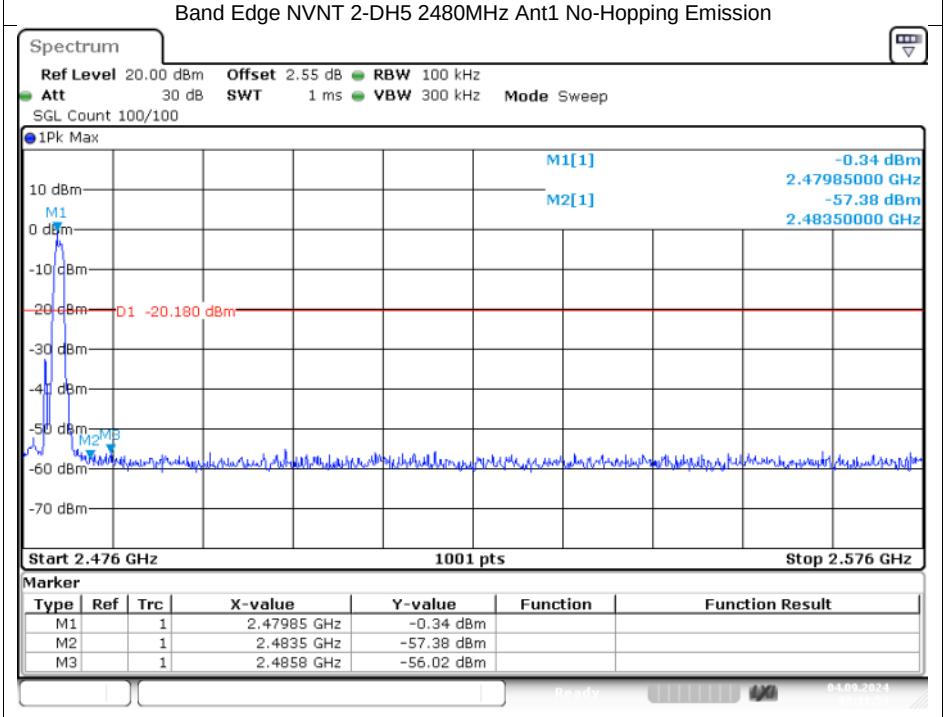
Date: 4.SEP.2024 08:09:15

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Date: 4.SEP.2024 08:11:51

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

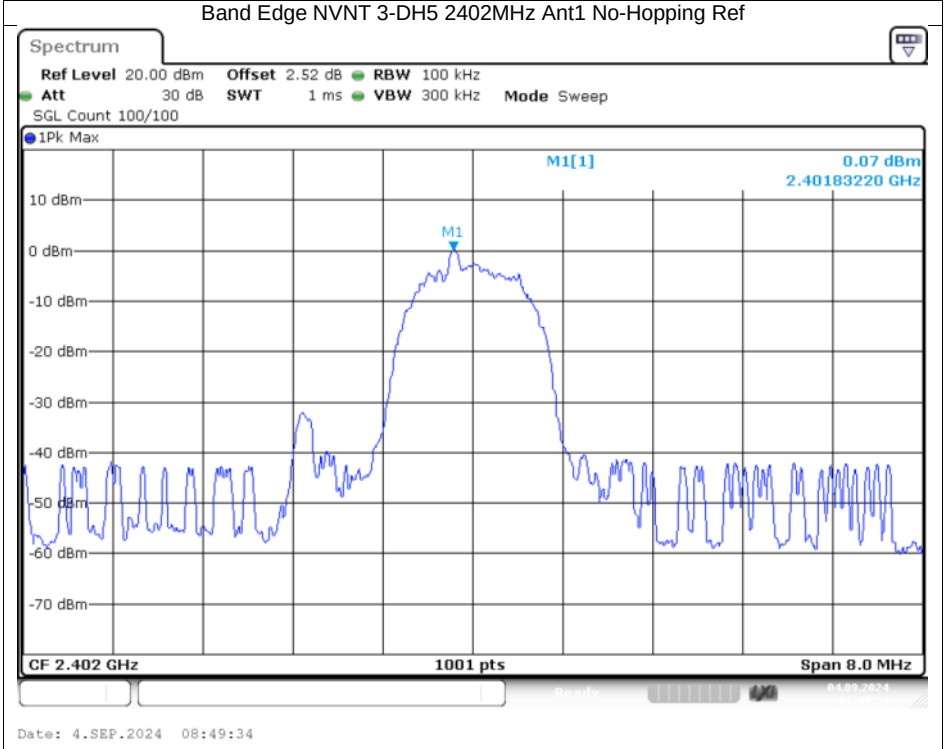


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	-0.34 dBm		
M2		1	2.4835 GHz	-57.38 dBm		
M3		1	2.4858 GHz	-56.02 dBm		

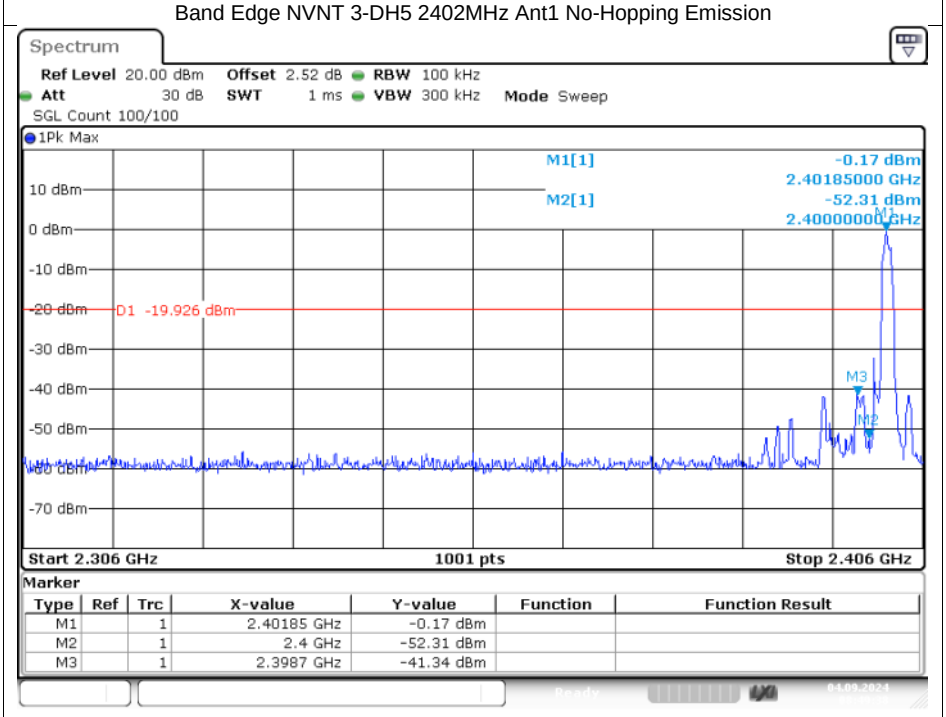
Date: 4.SEP.2024 08:11:54

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Date: 4.SEP.2024 08:49:34

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

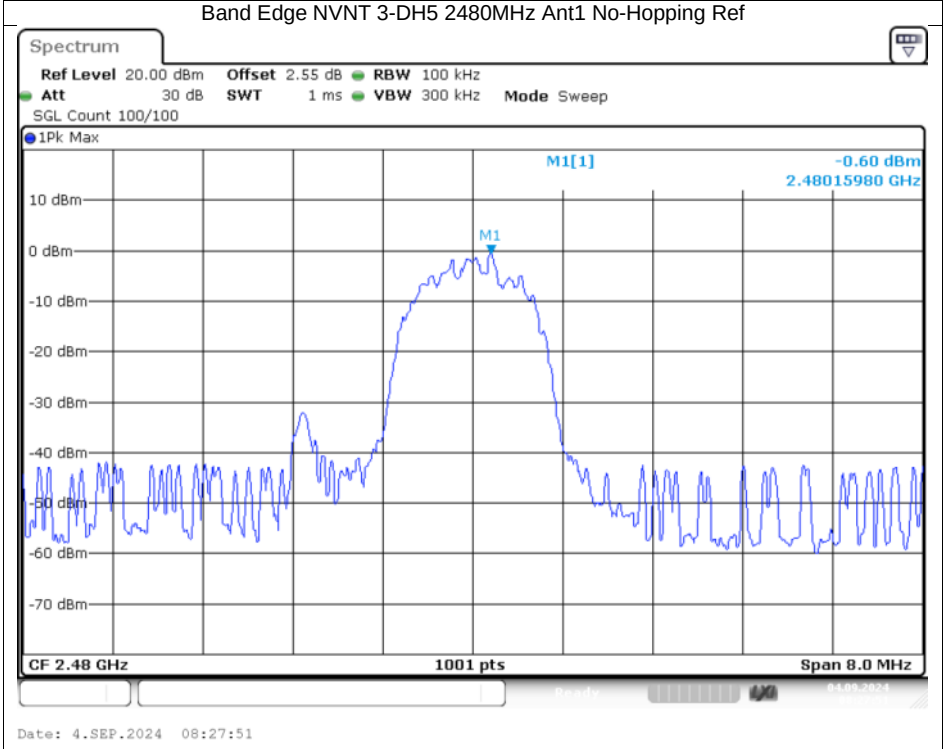


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40185 GHz	-0.17 dBm		
M2		1	2.4 GHz	-52.31 dBm		
M3		1	2.3987 GHz	-41.34 dBm		

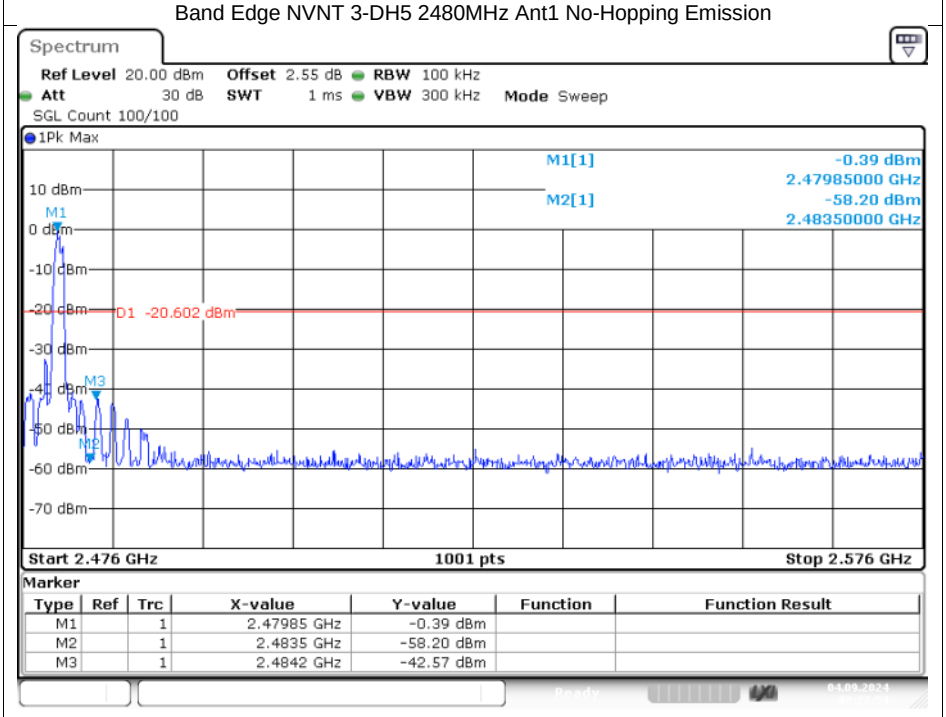
Date: 4.SEP.2024 08:49:38

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Date: 4.SEP.2024 08:27:51

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	-0.39 dBm		
M2		1	2.4835 GHz	-58.20 dBm		
M3		1	2.4842 GHz	-42.57 dBm		

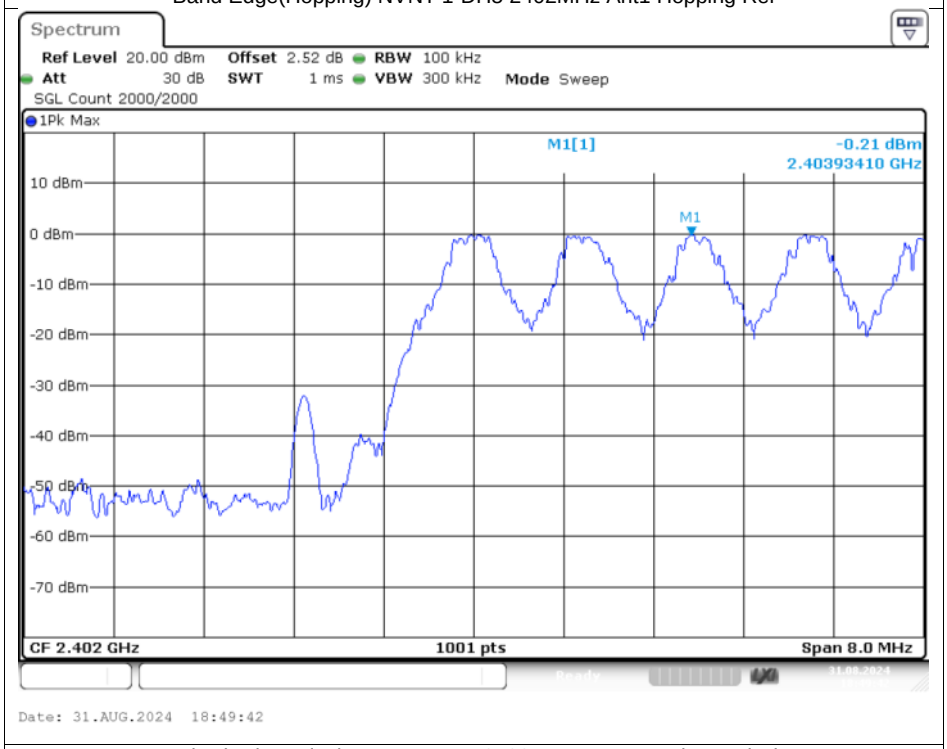
Date: 4.SEP.2024 08:27:54

Band Edge(Hopping)

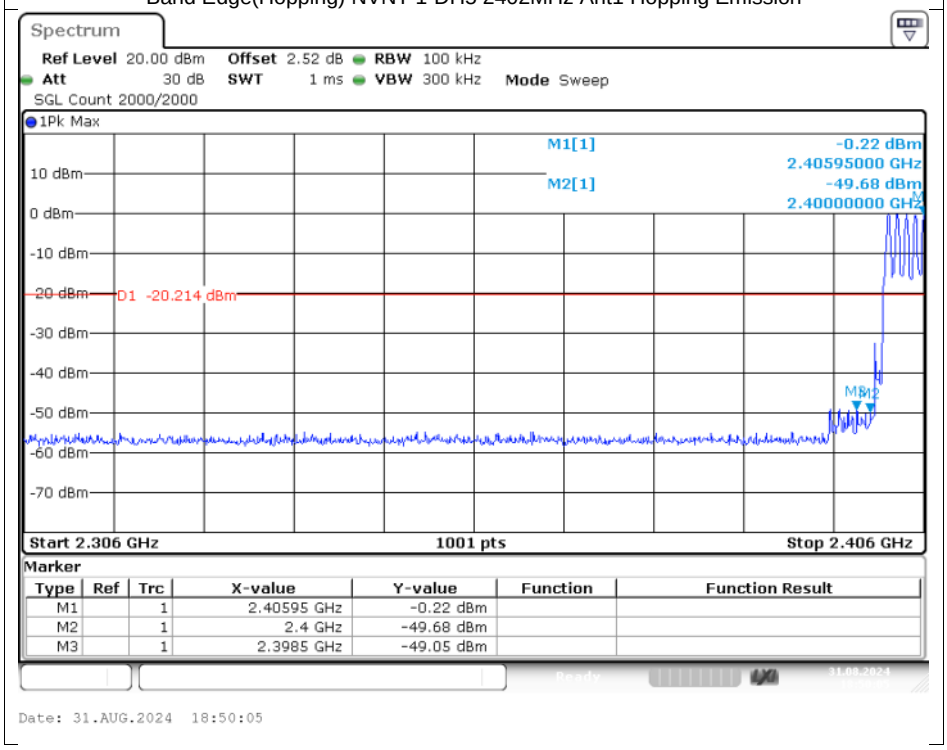
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.84	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.35	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.25	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.49	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-42.1	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-38.67	-20	Pass

Test Graphs

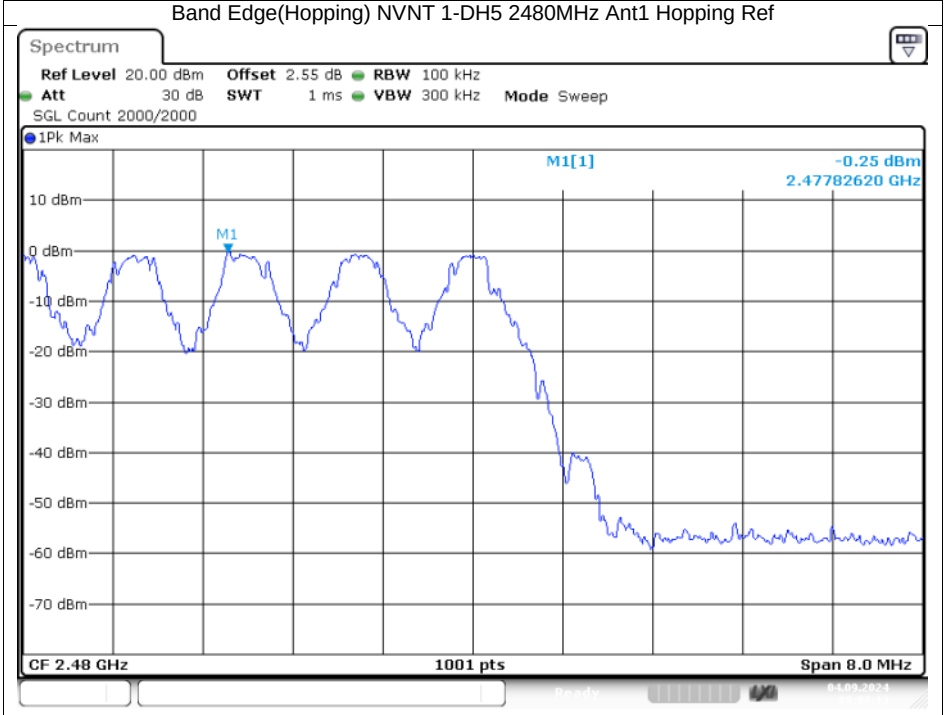
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

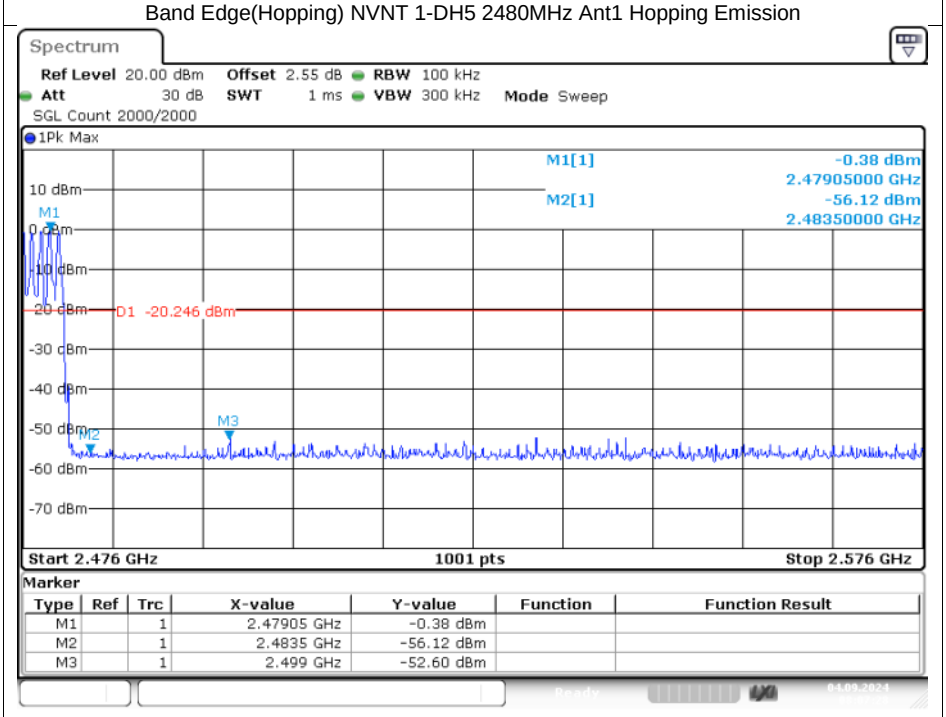


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Date: 4.SEP.2024 08:07:14

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

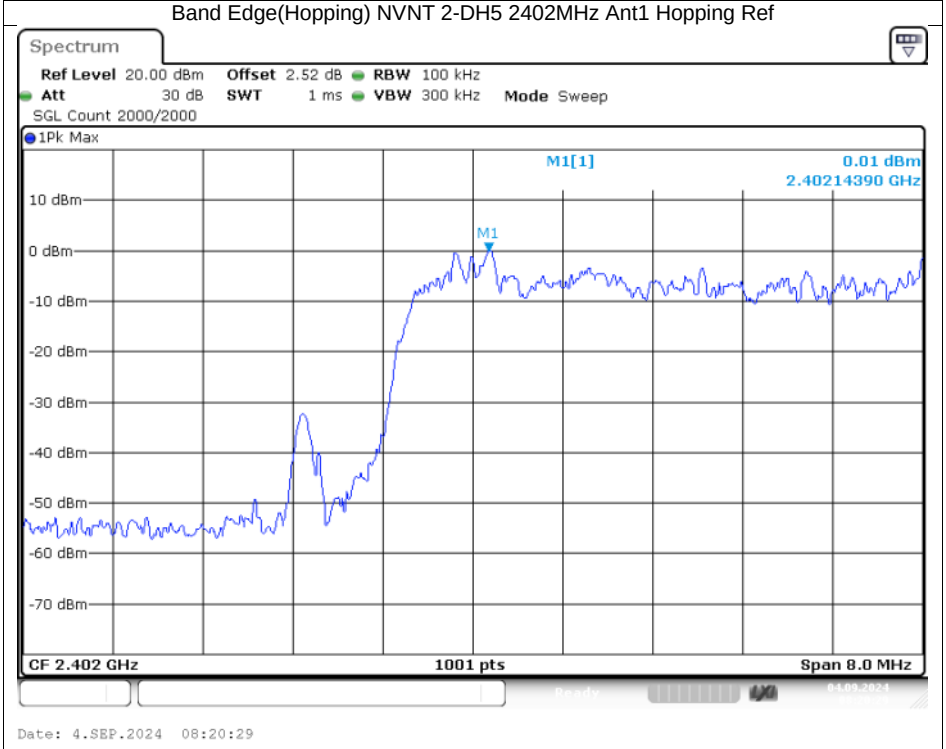


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47905 GHz	-0.38 dBm		
M2		1	2.4835 GHz	-56.12 dBm		
M3		1	2.499 GHz	-52.60 dBm		

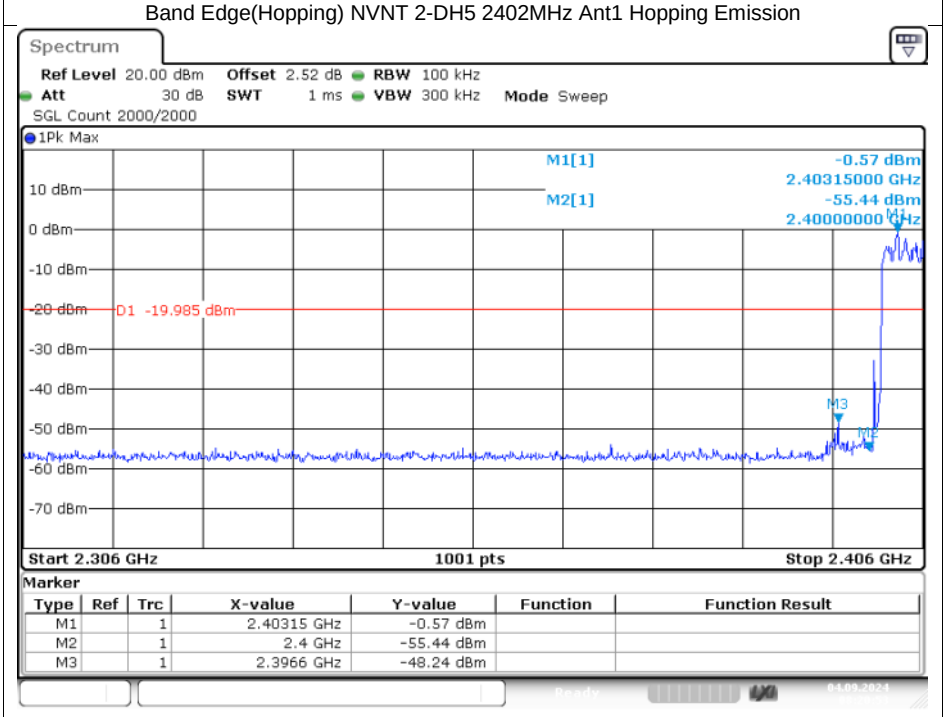
Date: 4.SEP.2024 08:07:28

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Date: 4.SEP.2024 08:20:29

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

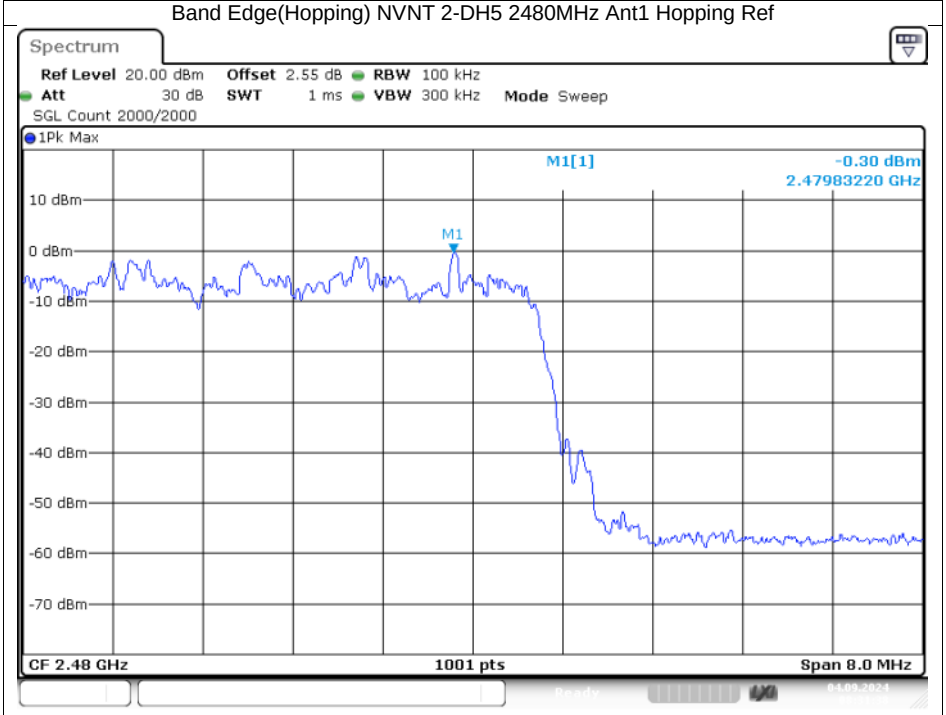


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40315 GHz	-0.57 dBm		
M2		1	2.4 GHz	-55.44 dBm		
M3		1	2.3966 GHz	-48.24 dBm		

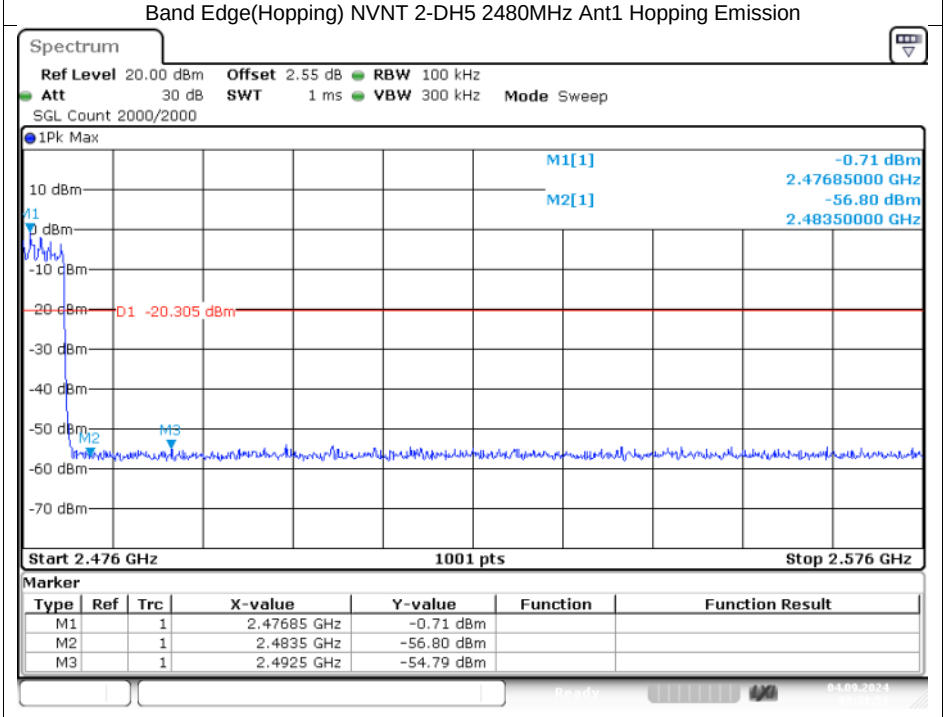
Date: 4.SEP.2024 08:20:53

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Date: 4.SEP.2024 08:31:38

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

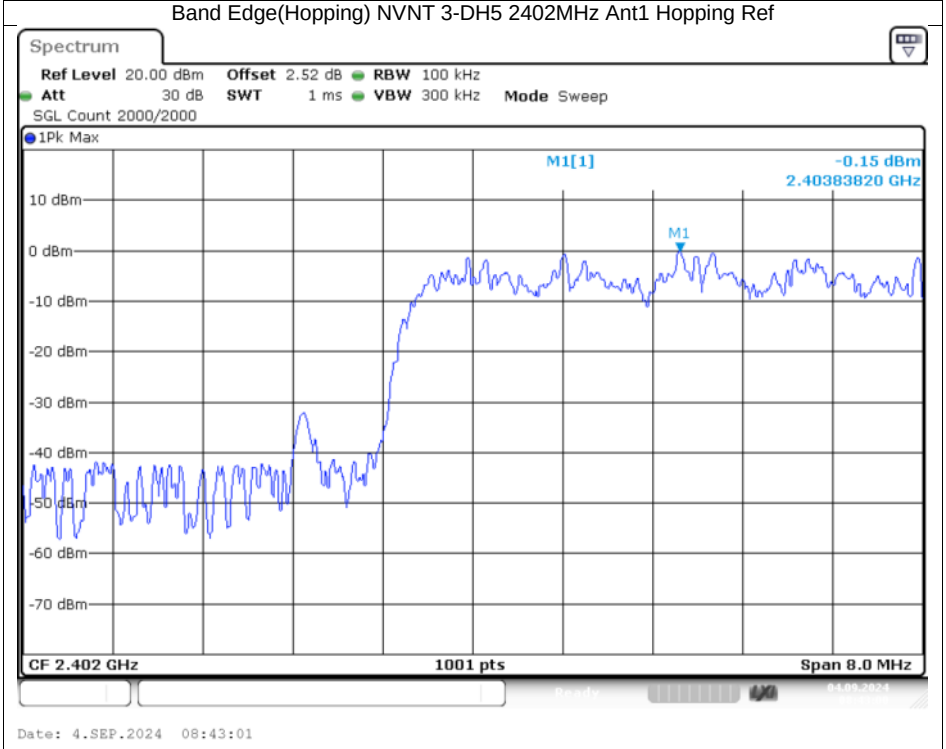


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47685 GHz	-0.71 dBm		
M2		1	2.4835 GHz	-56.80 dBm		
M3		1	2.4925 GHz	-54.79 dBm		

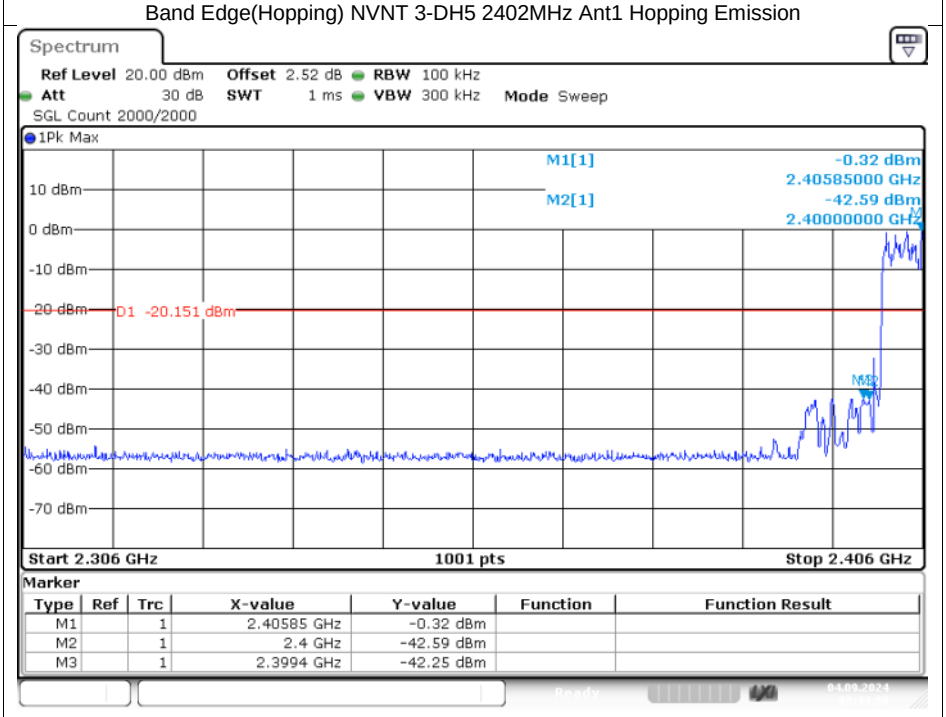
Date: 4.SEP.2024 08:31:51

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Date: 4.SEP.2024 08:43:01

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

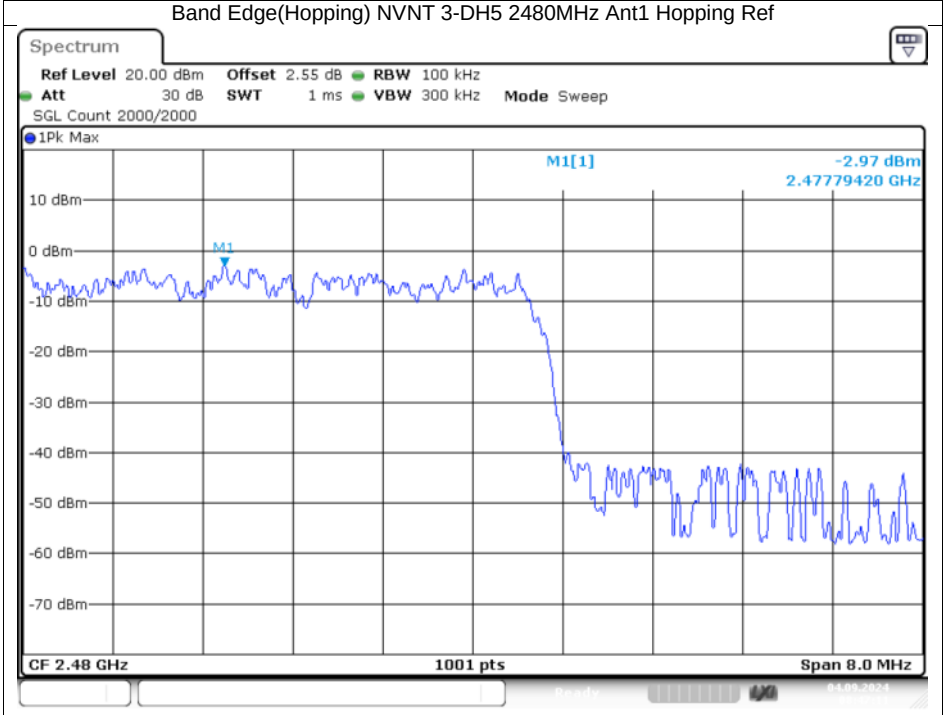


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40585 GHz	-0.32 dBm		
M2		1	2.4 GHz	-42.59 dBm		
M3		1	2.3994 GHz	-42.25 dBm		

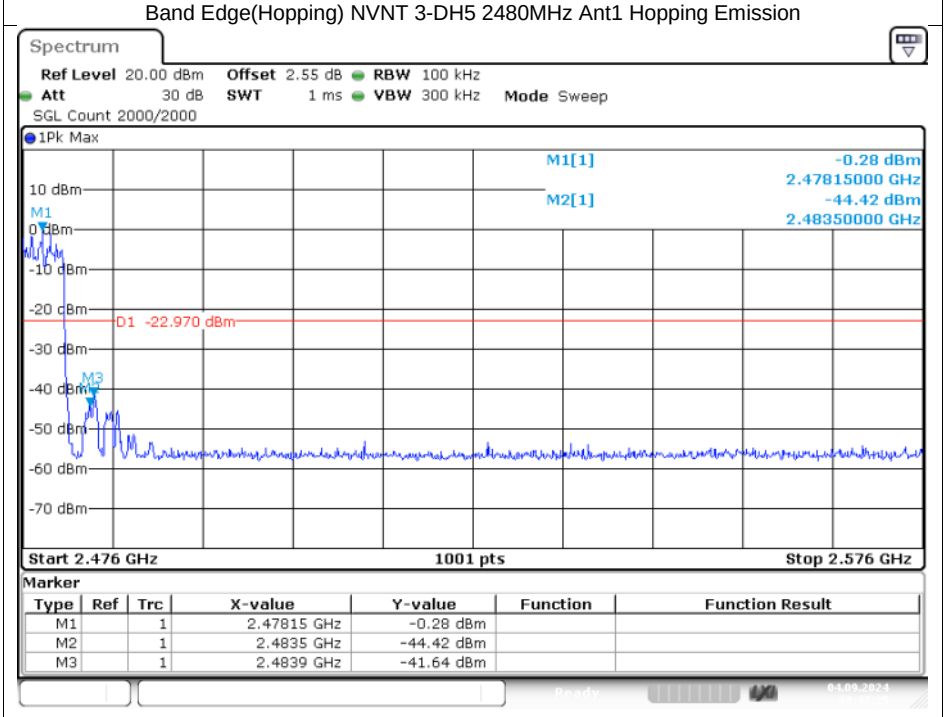
Date: 4.SEP.2024 08:44:01

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Date: 4.SEP.2024 08:47:11

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47815 GHz	-0.28 dBm		
M2		1	2.4835 GHz	-44.42 dBm		
M3		1	2.4839 GHz	-41.64 dBm		

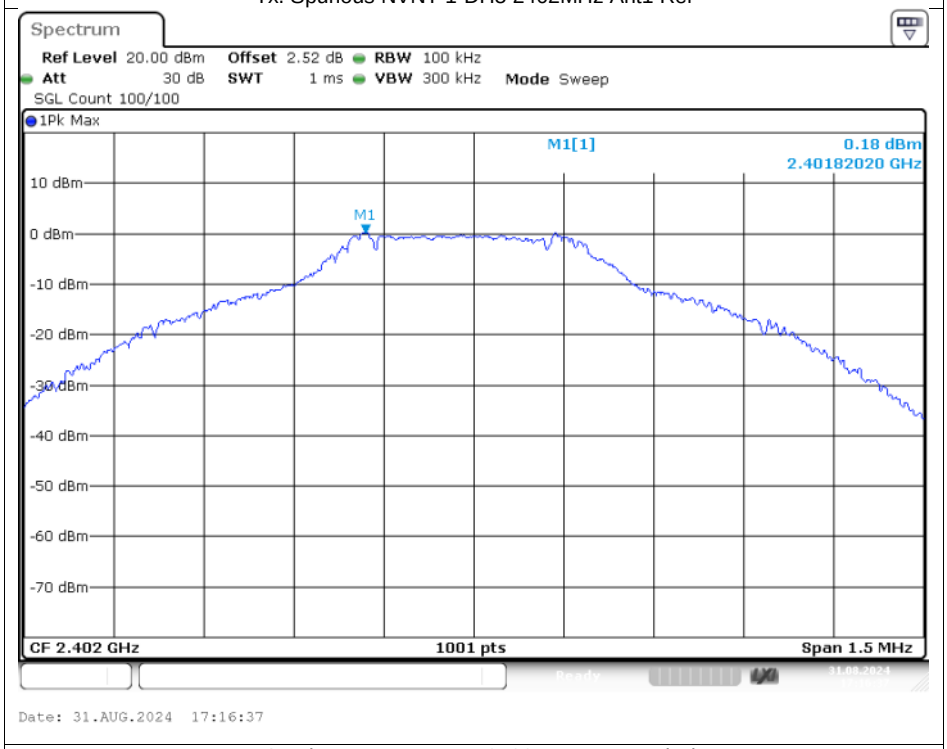
Date: 4.SEP.2024 08:47:25

Conducted RF Spurious Emission

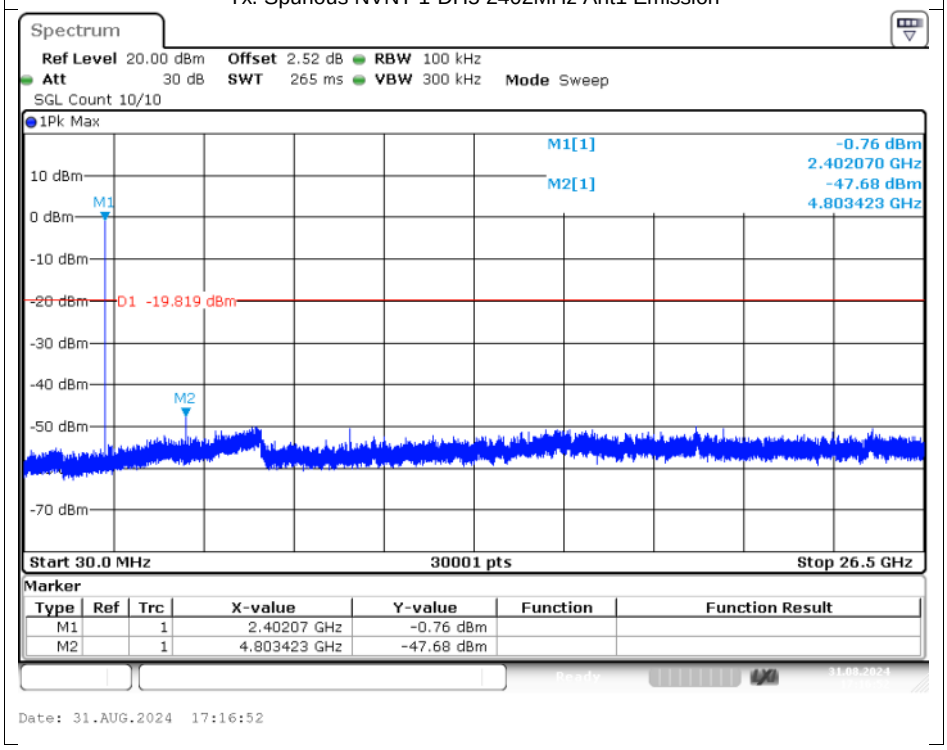
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-47.86	-20	Pass
NVNT	1-DH5	2441	Ant1	-49.51	-20	Pass
NVNT	1-DH5	2480	Ant1	-49	-20	Pass
NVNT	2-DH5	2402	Ant1	-48.8	-20	Pass
NVNT	2-DH5	2441	Ant1	-48.42	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.73	-20	Pass
NVNT	3-DH5	2402	Ant1	-48.12	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.17	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.12	-20	Pass

Test Graphs

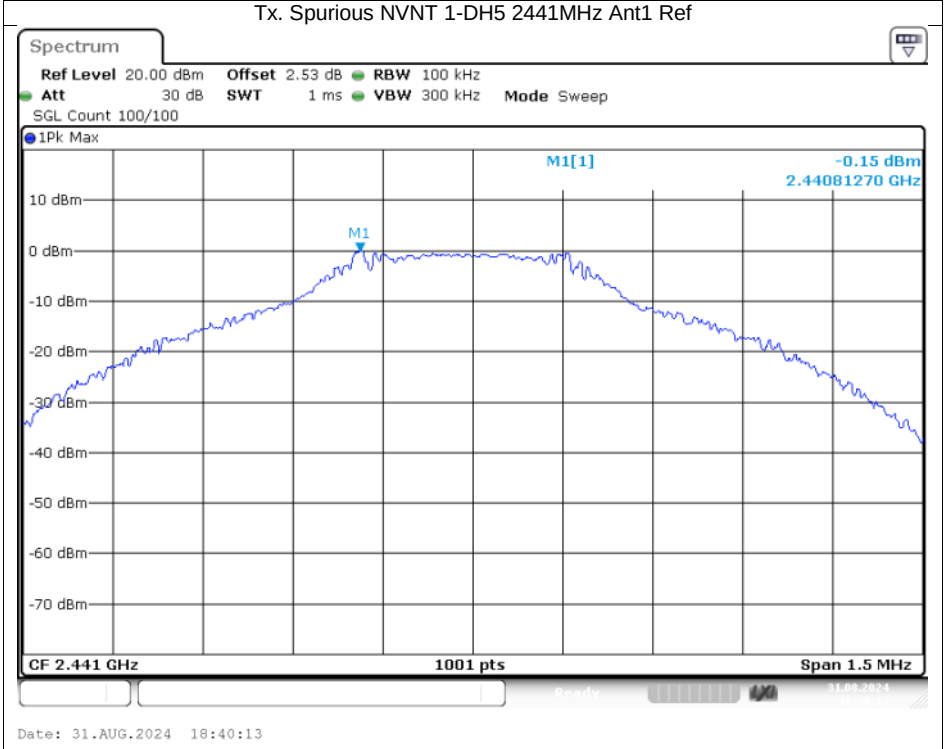
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

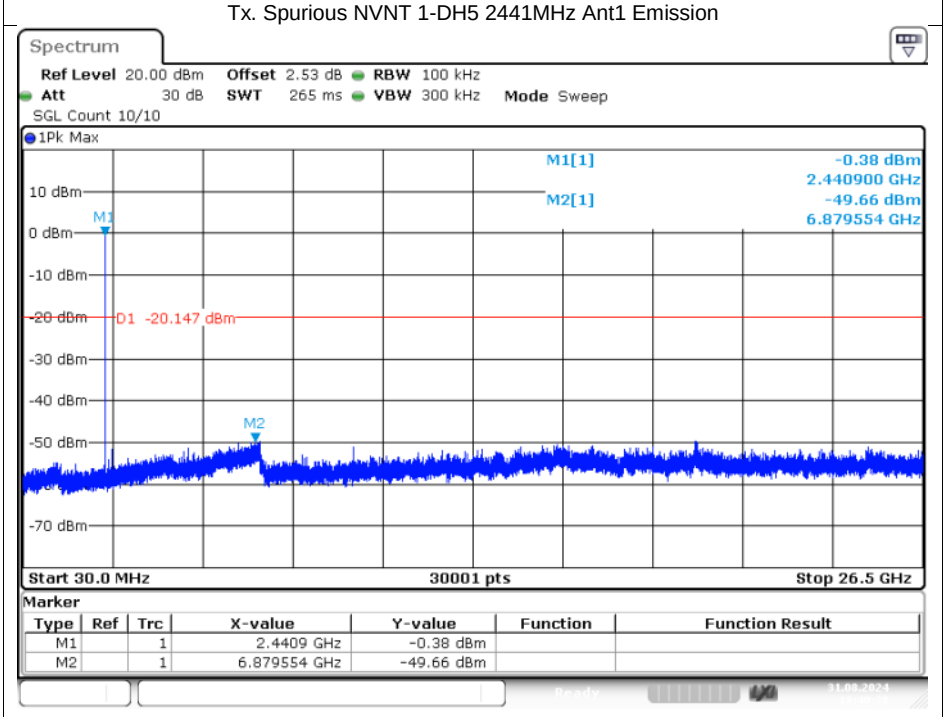


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Date: 31.AUG.2024 18:40:13

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

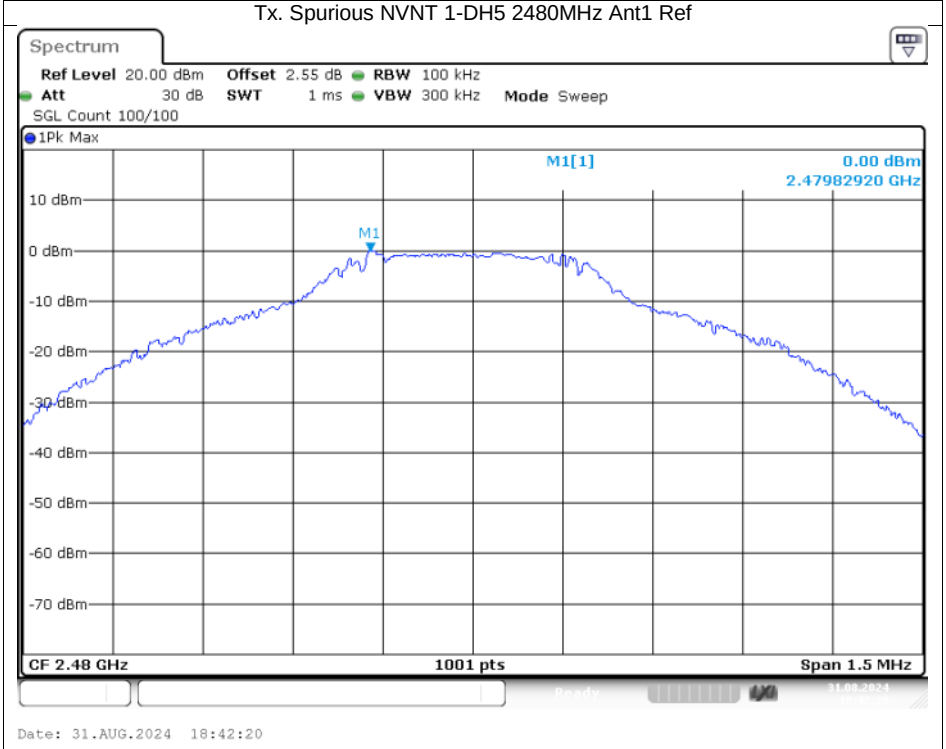


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	-0.38 dBm		
M2		1	6.879554 GHz	-49.66 dBm		

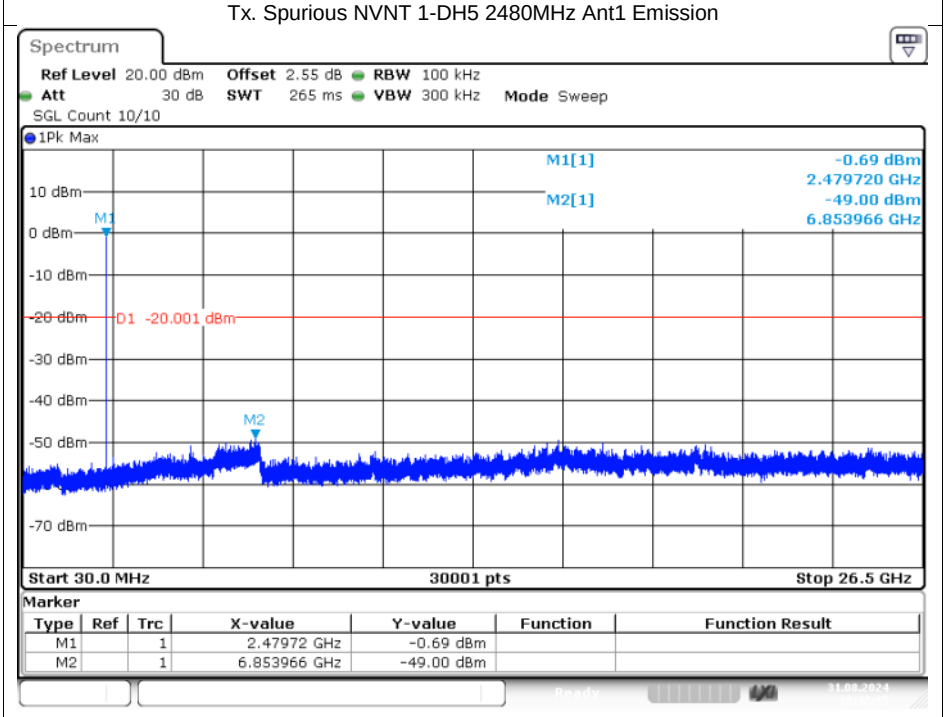
Date: 31.AUG.2024 18:40:28

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Date: 31.AUG.2024 18:42:20

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

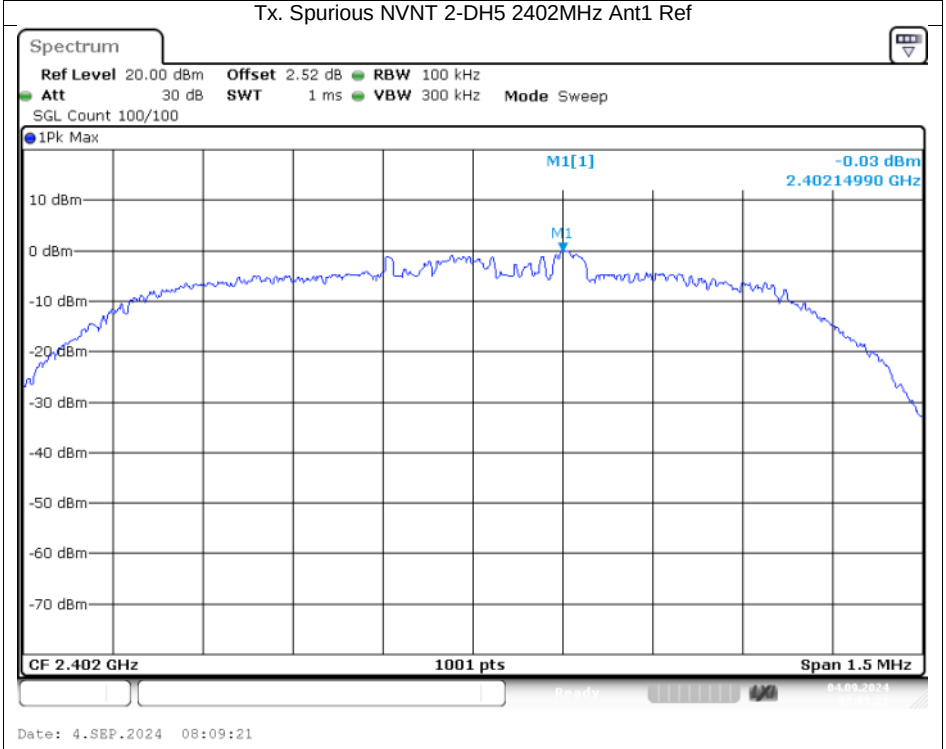


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47972 GHz	-0.69 dBm		
M2		1	6.853966 GHz	-49.00 dBm		

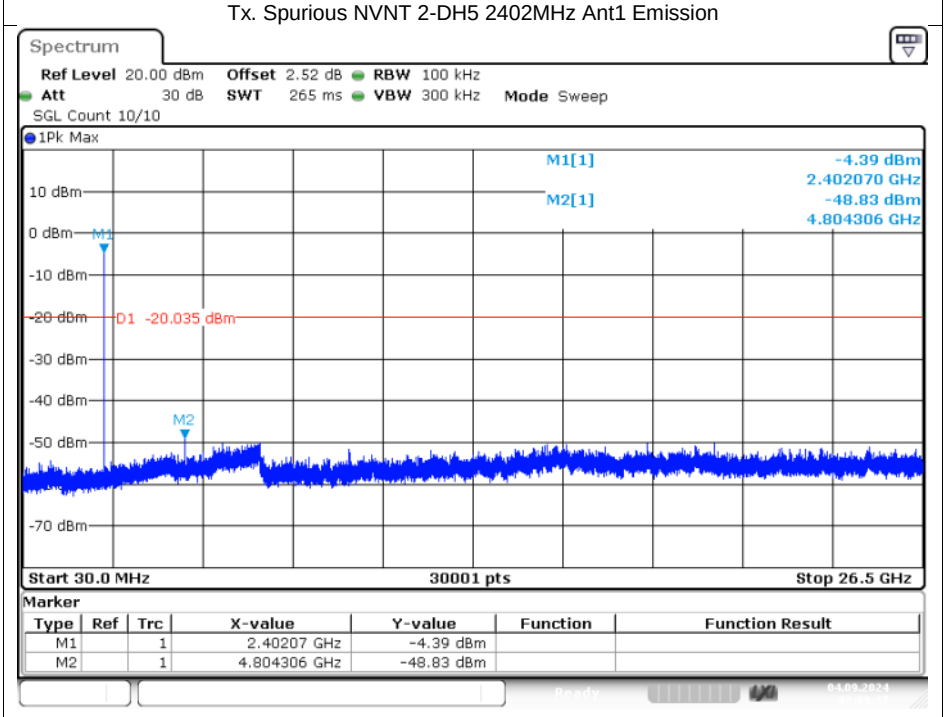
Date: 31.AUG.2024 18:42:36

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Date: 4.SEP.2024 08:09:21

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

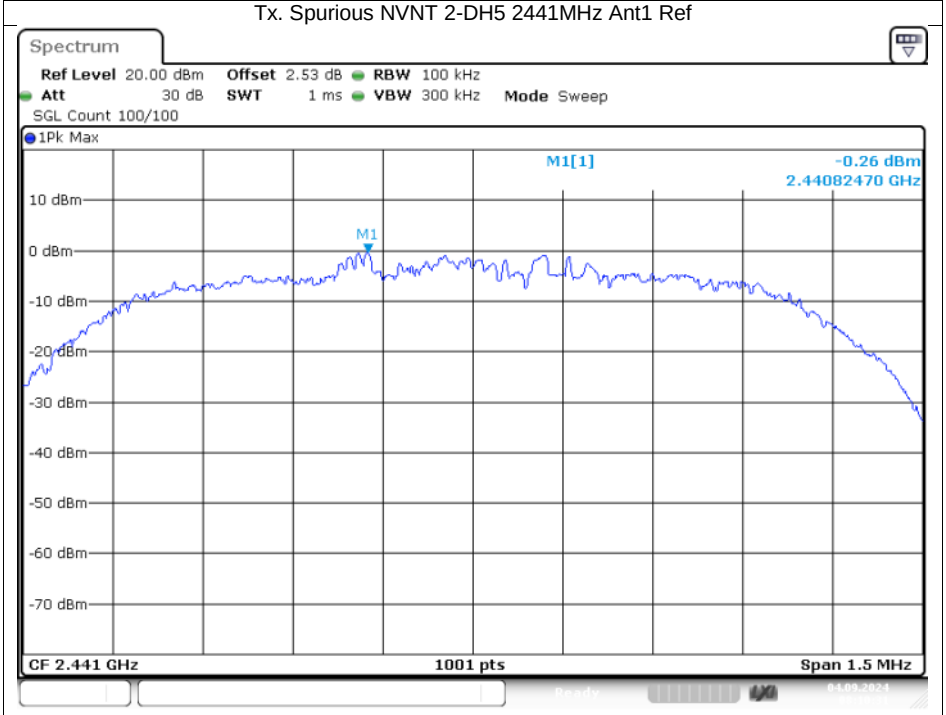


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	-4.39 dBm		
M2		1	4.804306 GHz	-48.83 dBm		

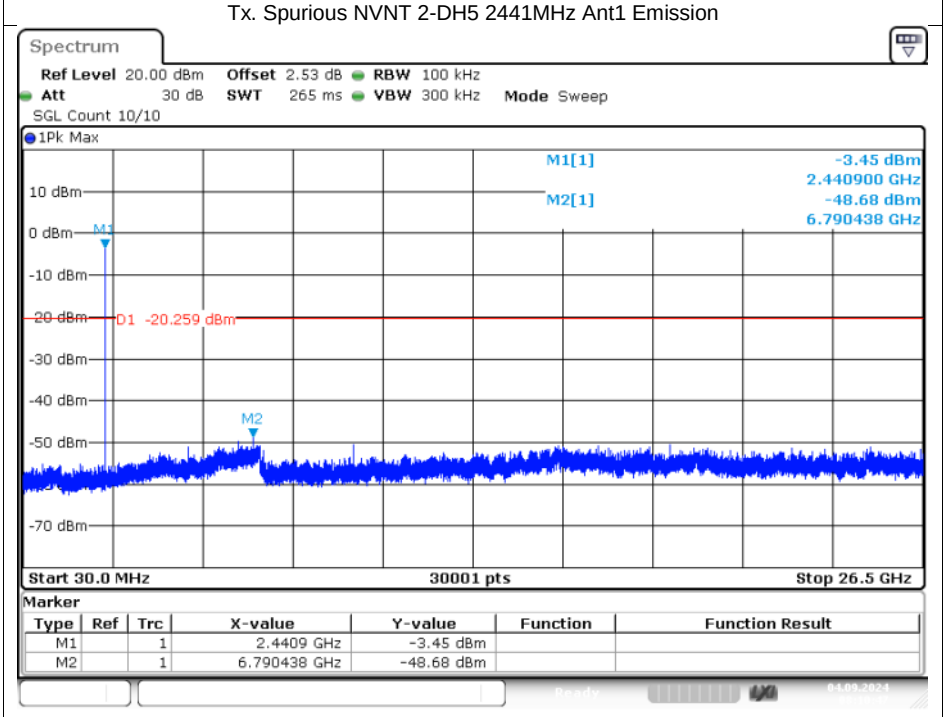
Date: 4.SEP.2024 08:09:37

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Date: 4.SEP.2024 08:10:31

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

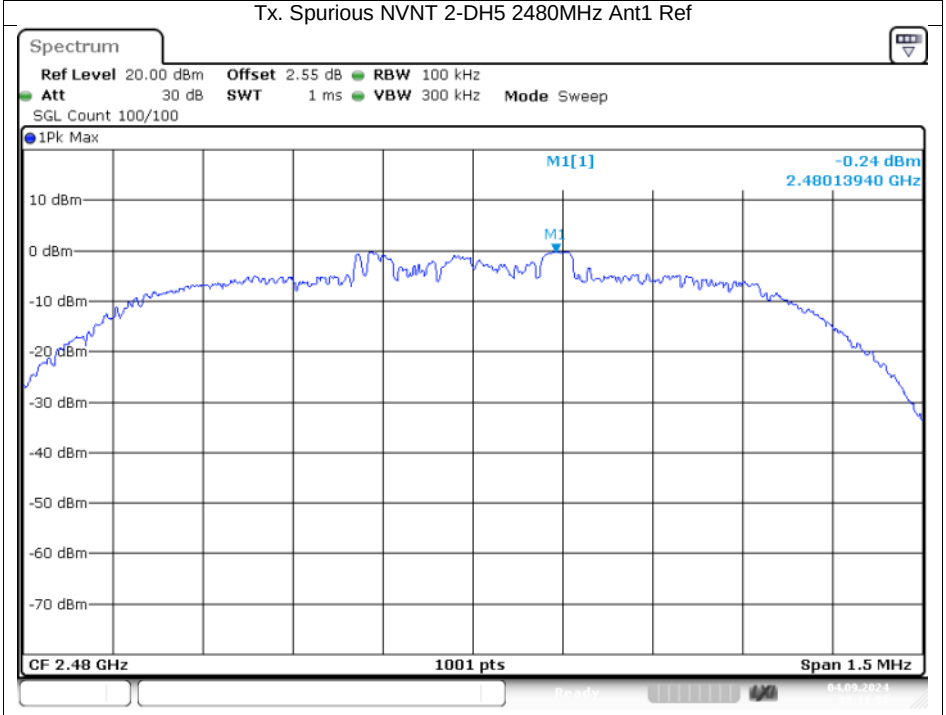


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	-3.45 dBm		
M2		1	6.790438 GHz	-48.68 dBm		

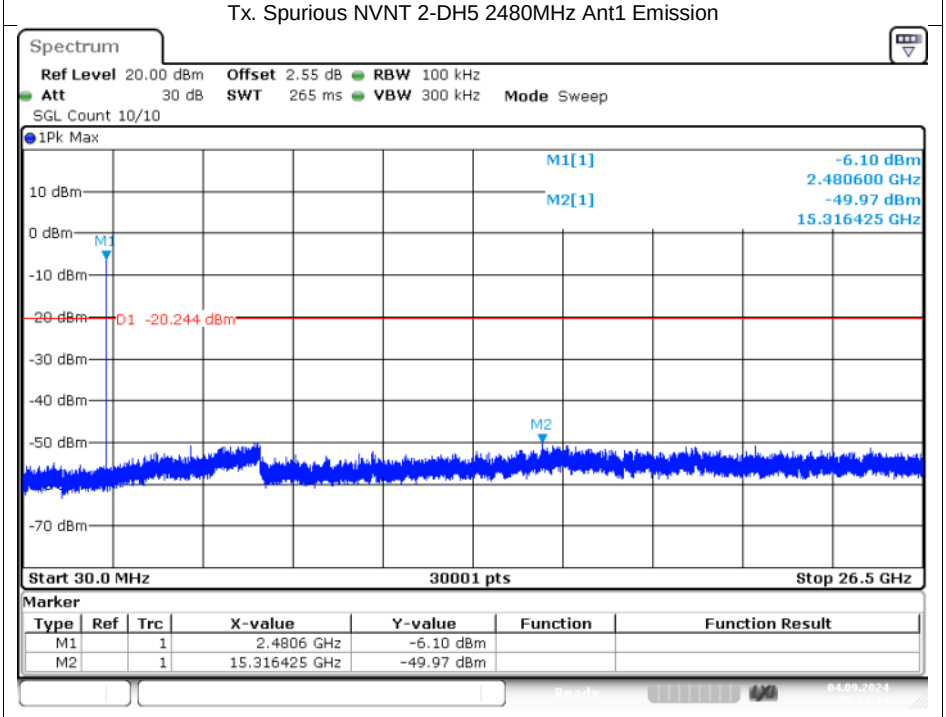
Date: 4.SEP.2024 08:10:47

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Date: 4.SEP.2024 08:11:58

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

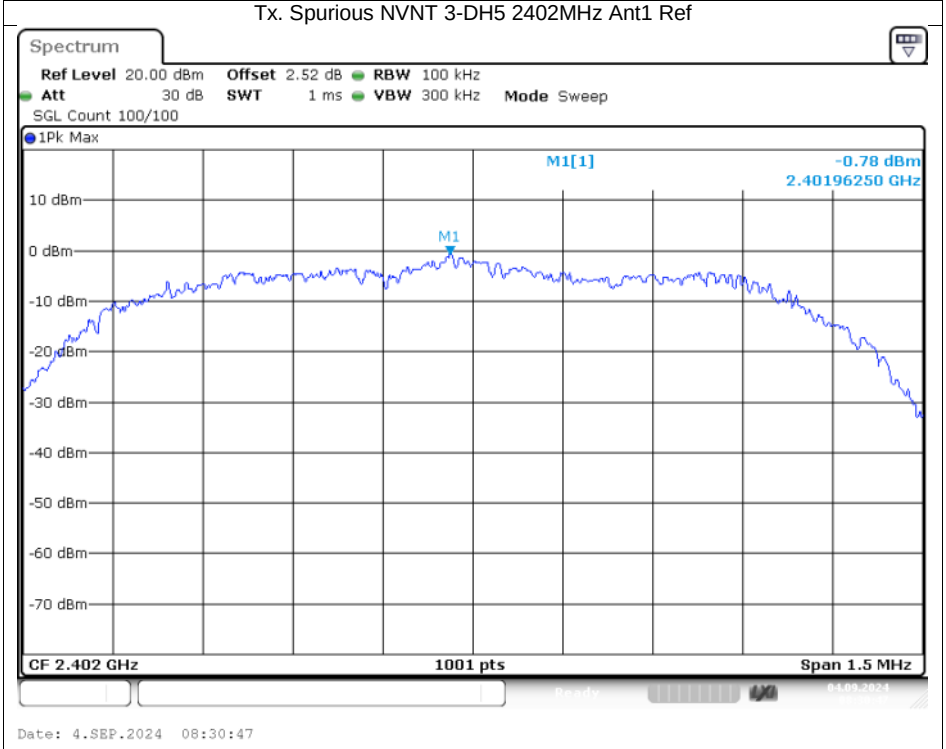


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4806 GHz	-6.10 dBm		
M2		1	15.316425 GHz	-49.97 dBm		

Date: 4.SEP.2024 08:12:14

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



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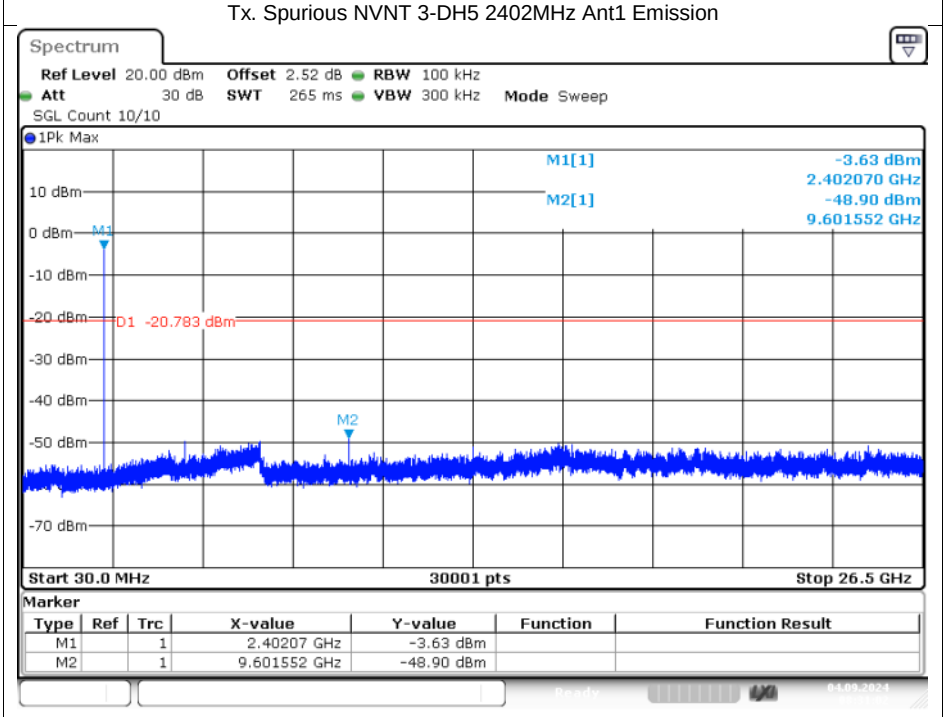
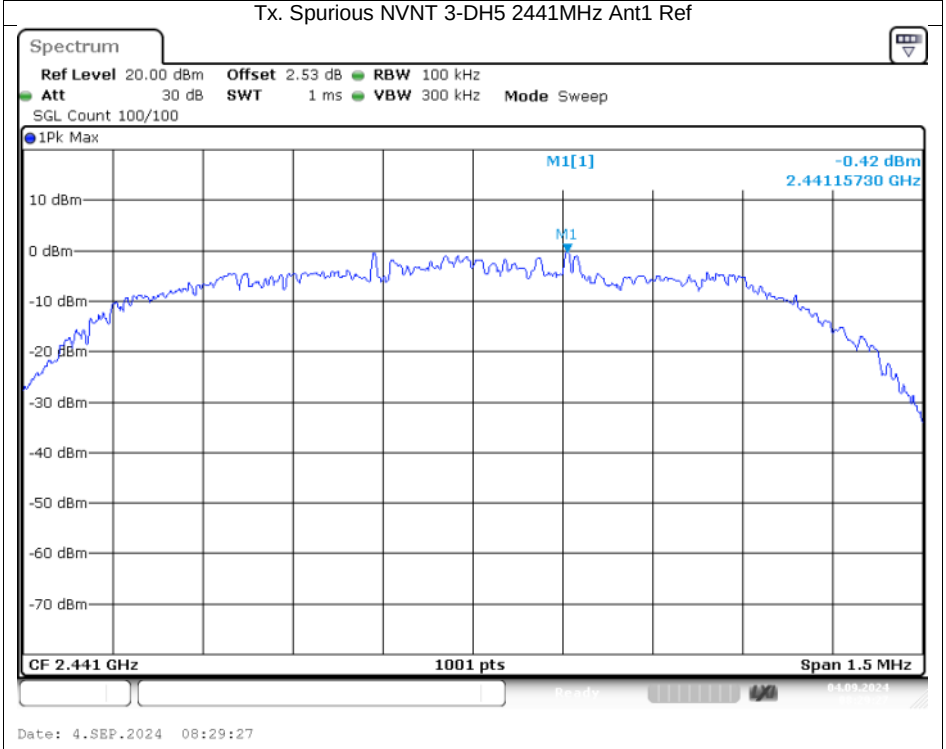
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



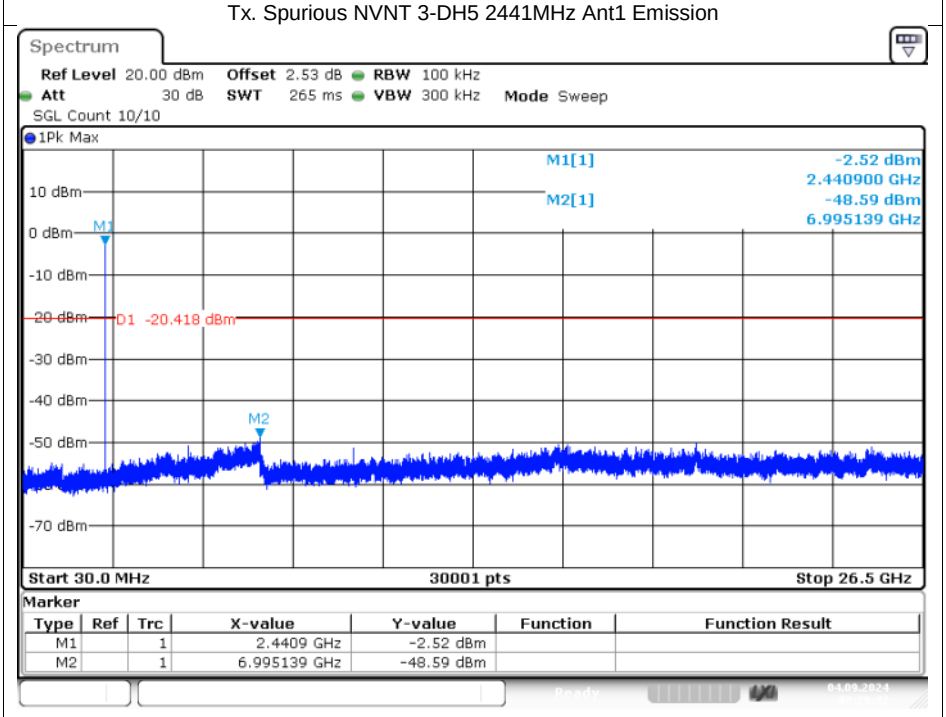
Date: 4.SEP.2024 08:31:02

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Date: 4.SEP.2024 08:29:27

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

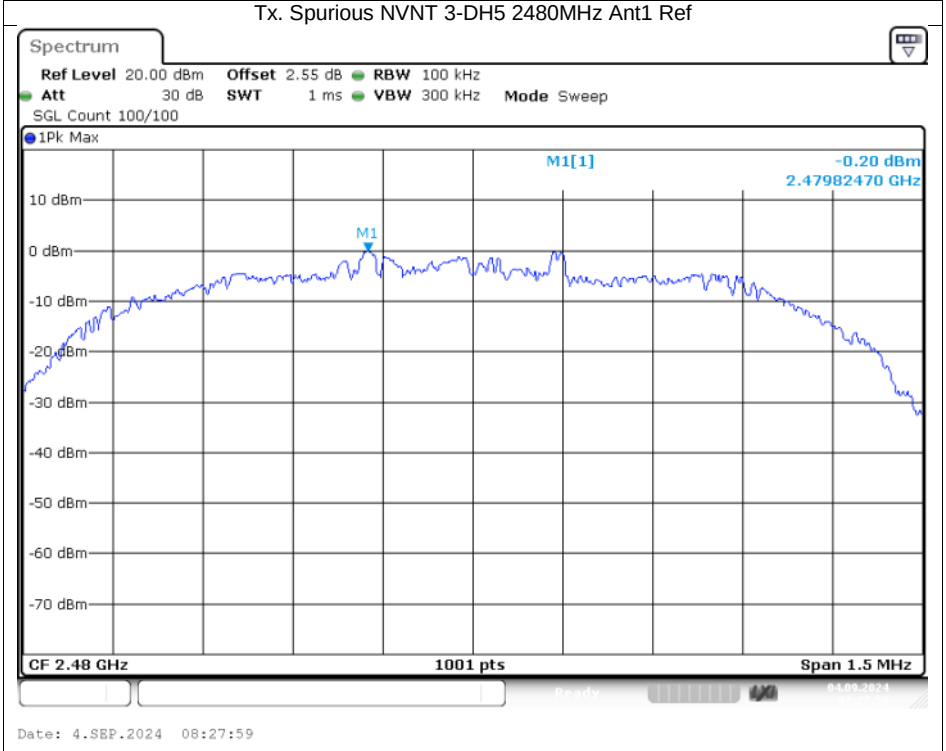


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	-2.52 dBm		
M2		1	6.995139 GHz	-48.59 dBm		

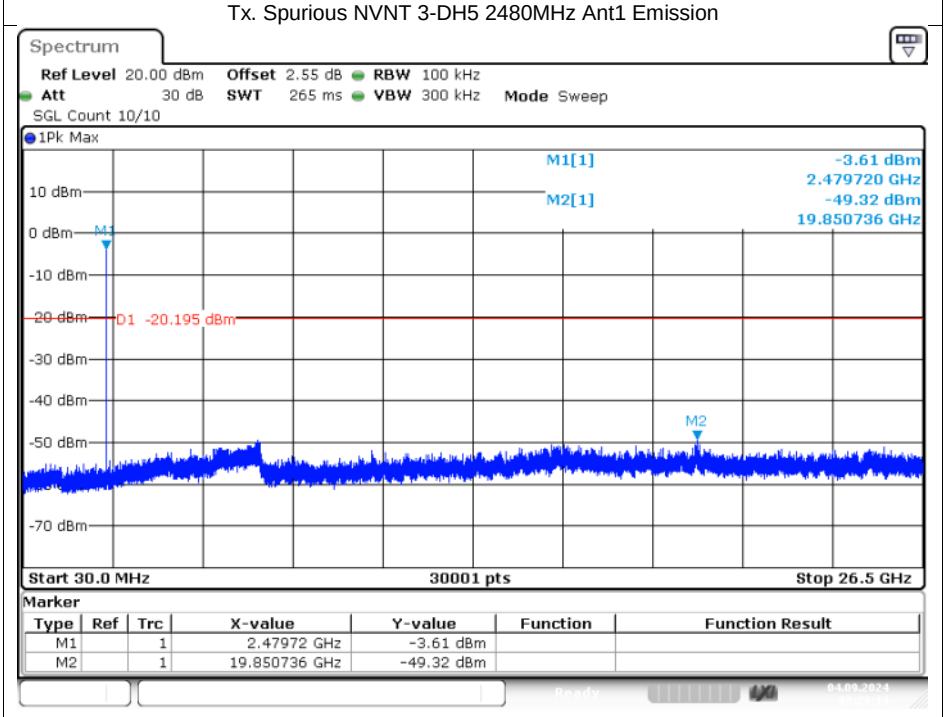
Date: 4.SEP.2024 08:29:42

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Date: 4.SEP.2024 08:27:59

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



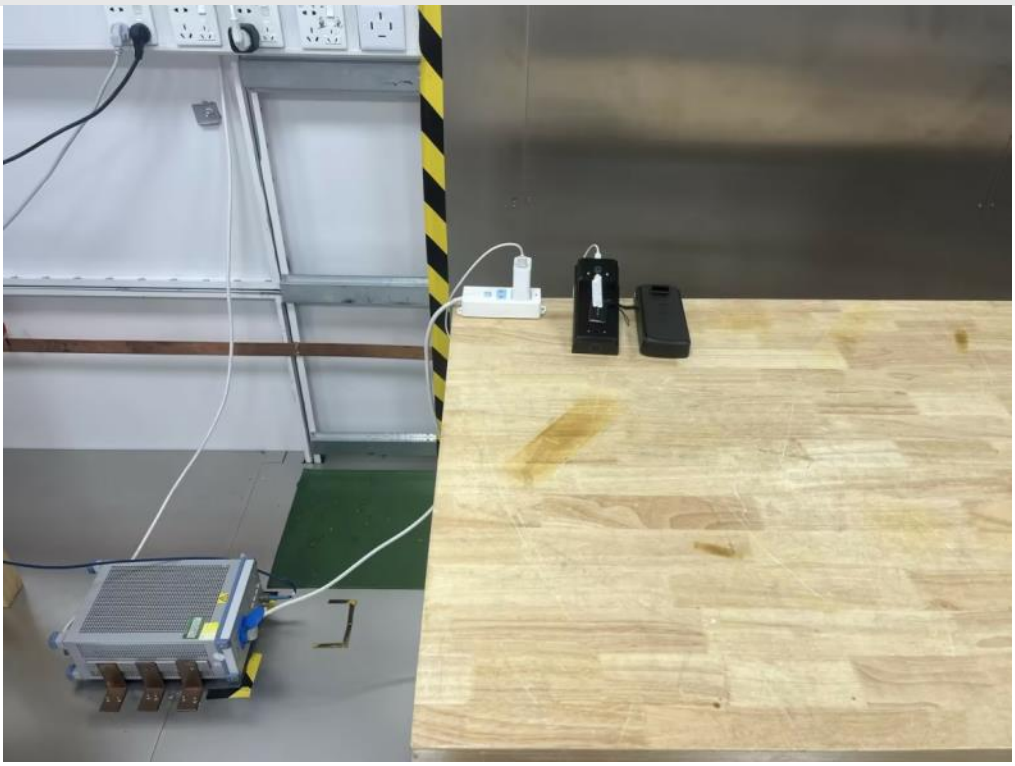
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47972 GHz	-3.61 dBm		
M2		1	19.850736 GHz	-49.32 dBm		

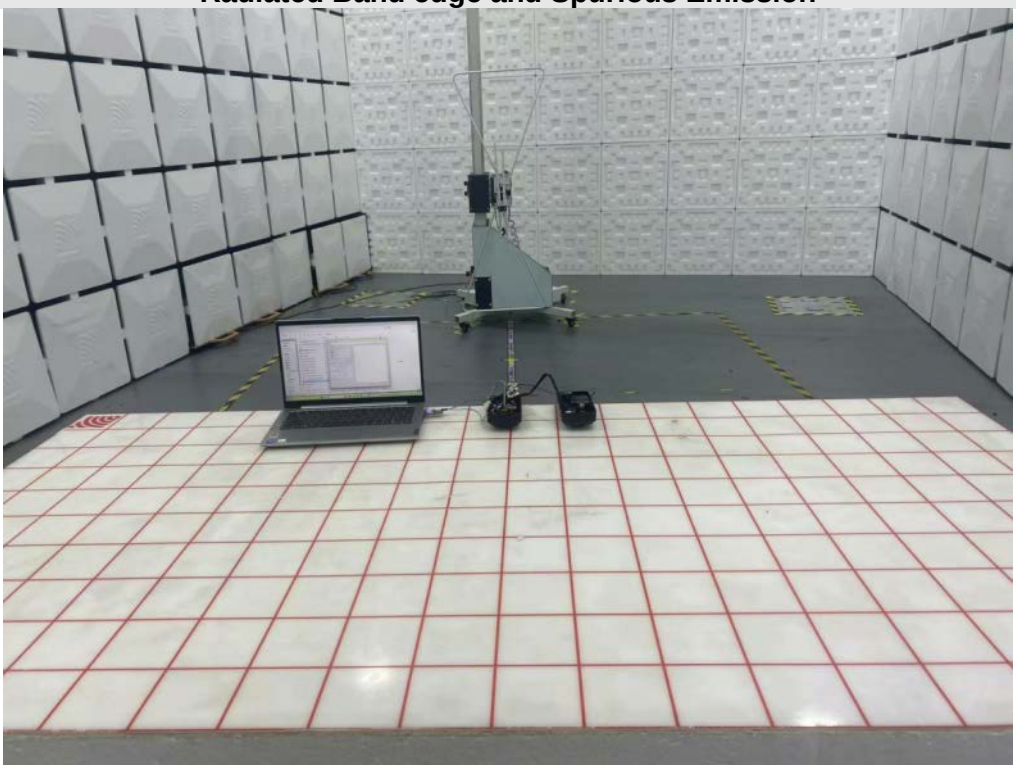
Date: 4.SEP.2024 08:28:14

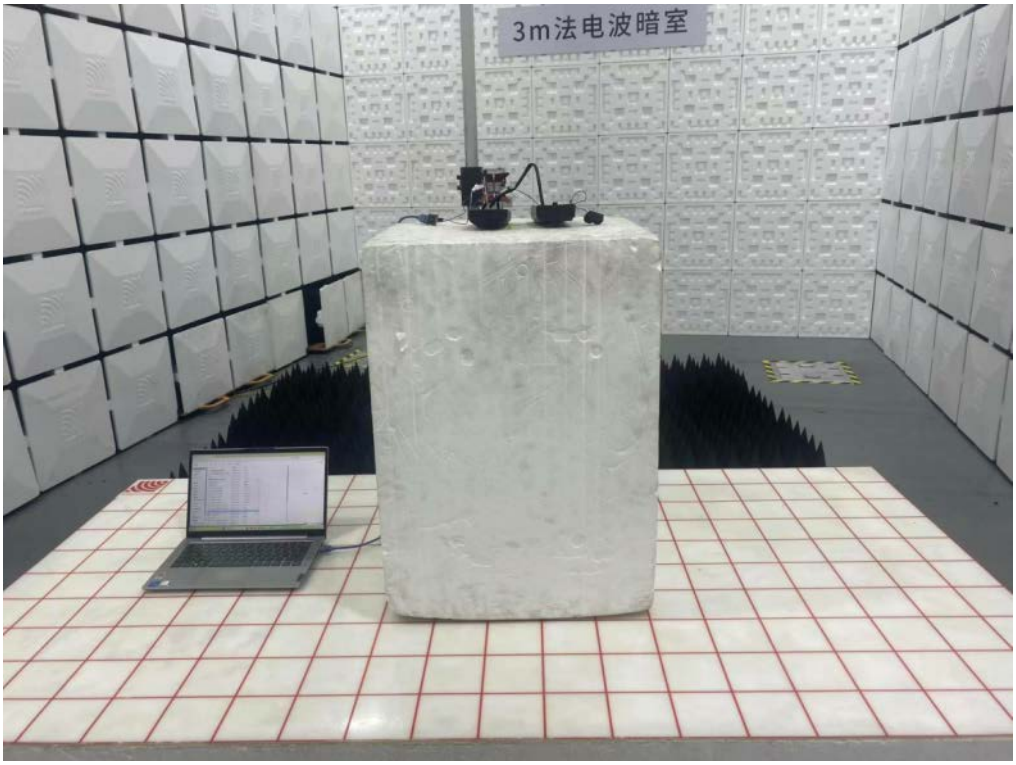
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



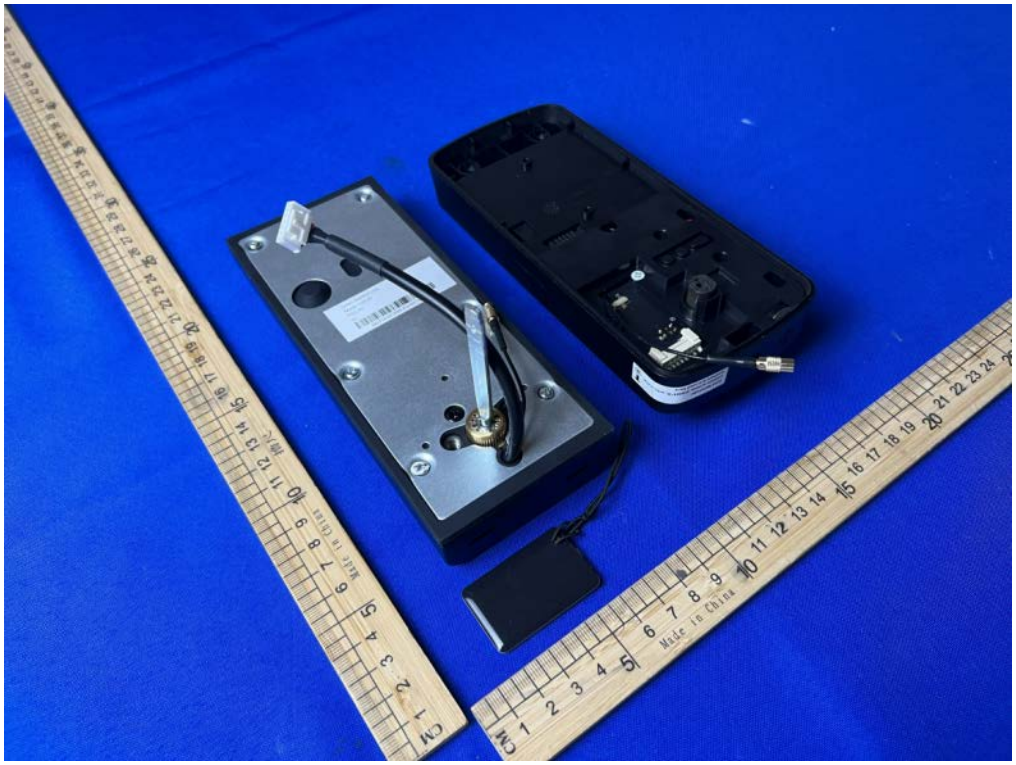
Radiated Band edge and Spurious Emission



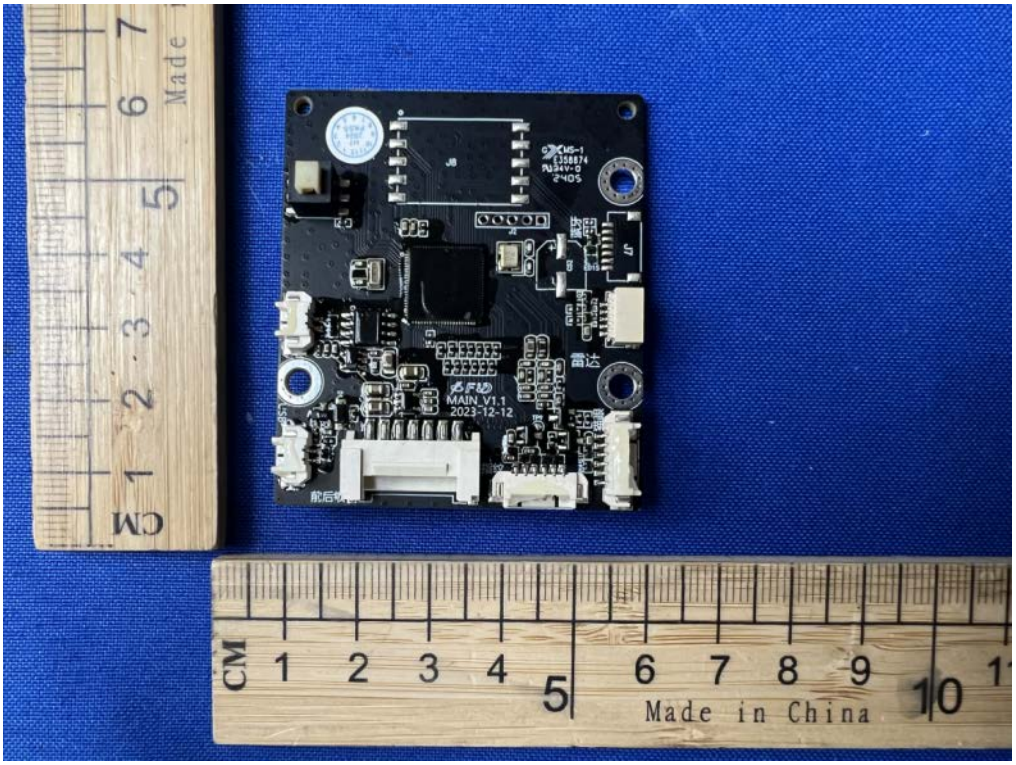

3m法电波暗室

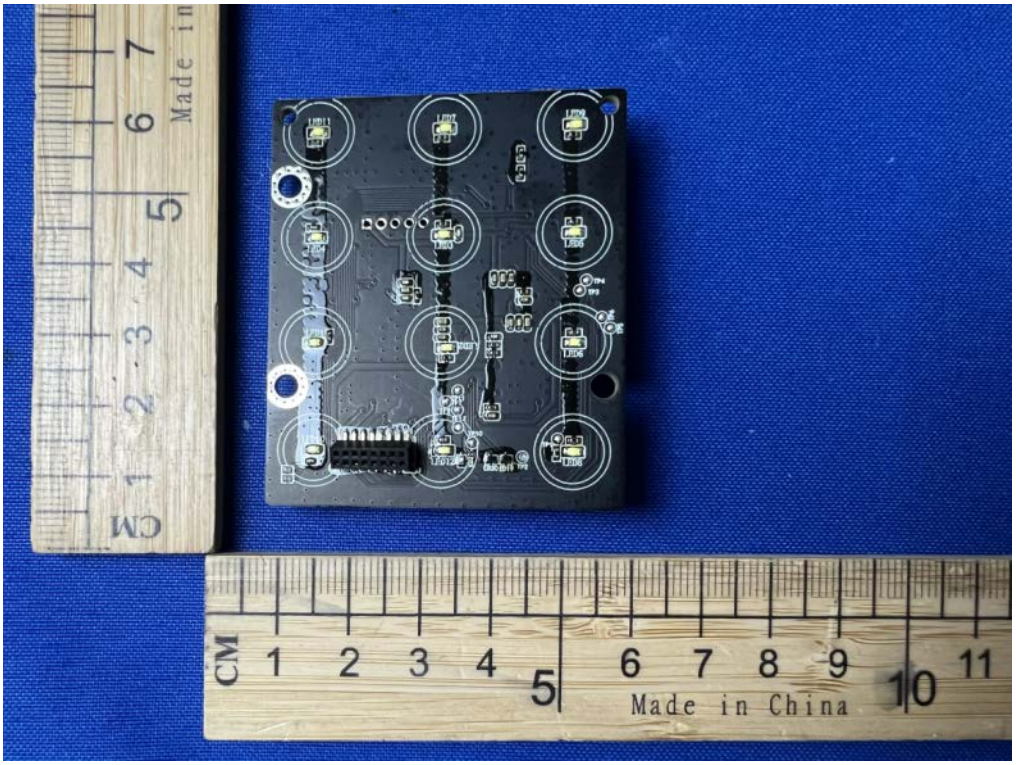
APPENDIX: PHOTOGRAPHS OF THE EUT

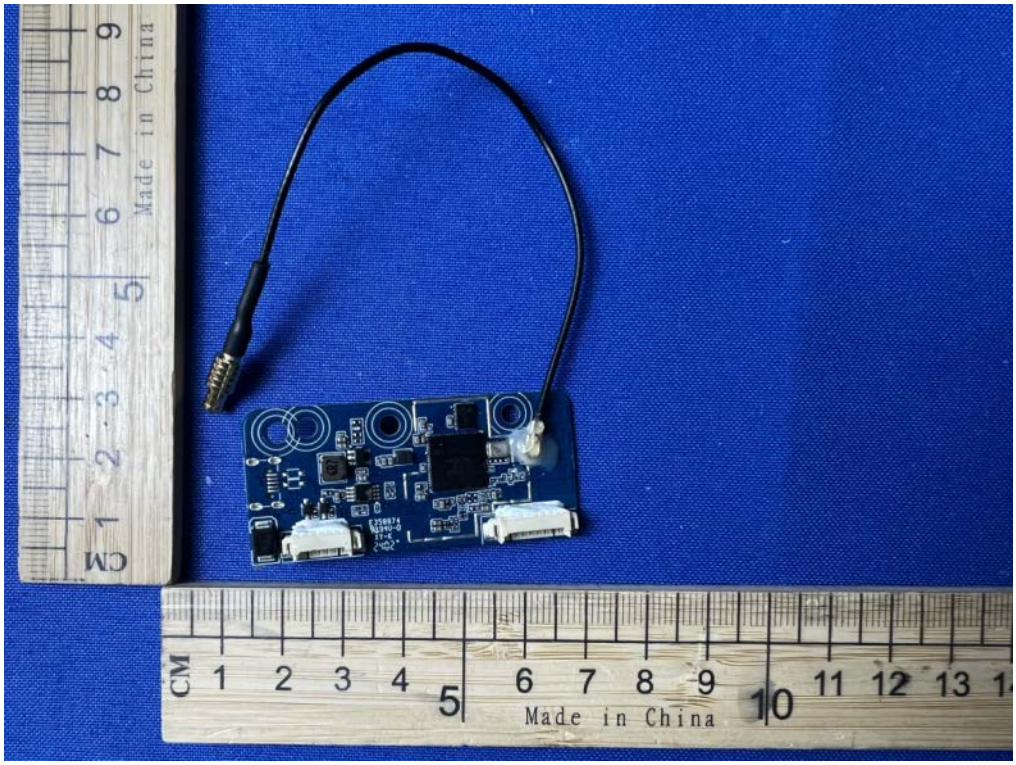
External



Internal




CM
Made in China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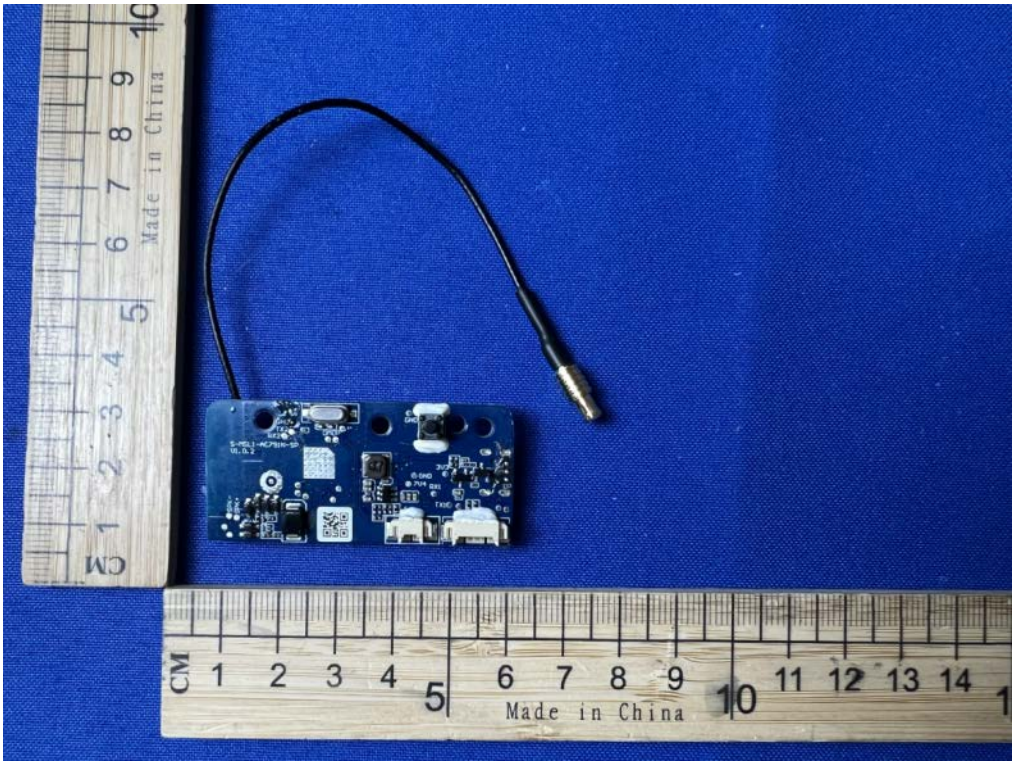
Made in China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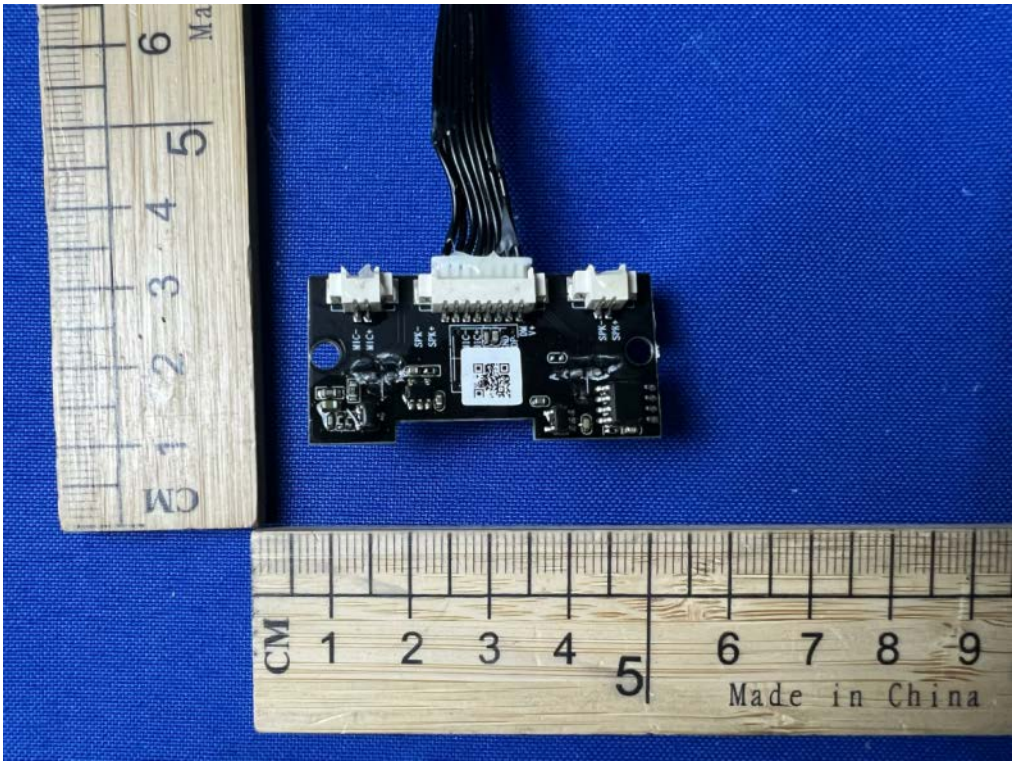
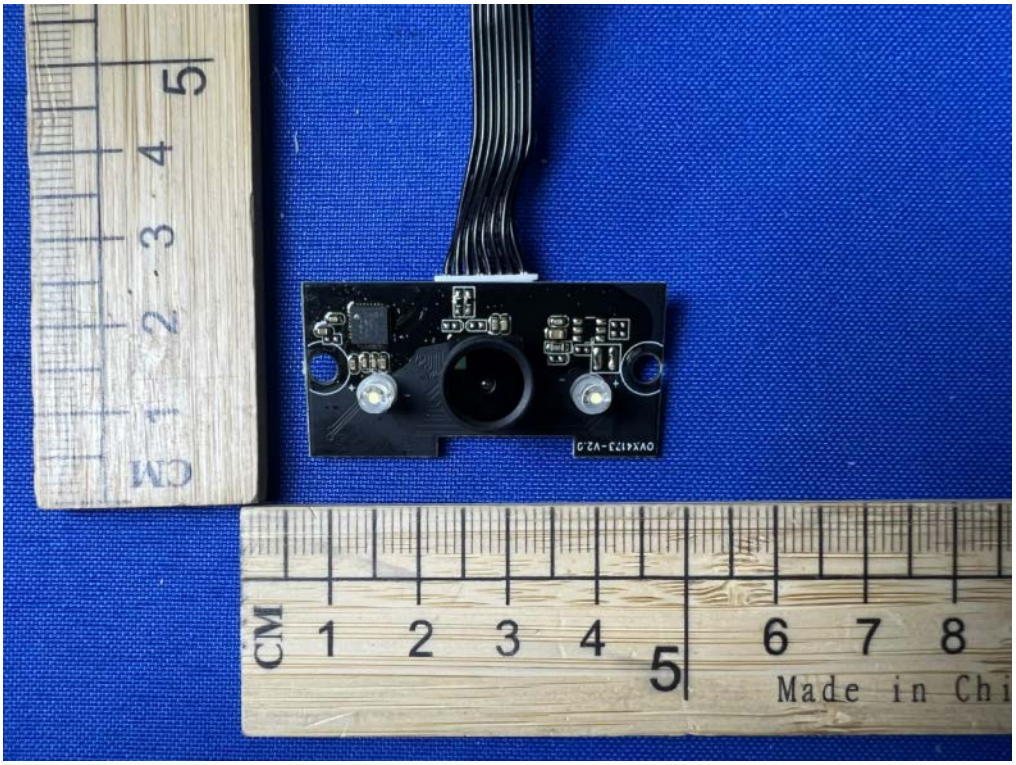
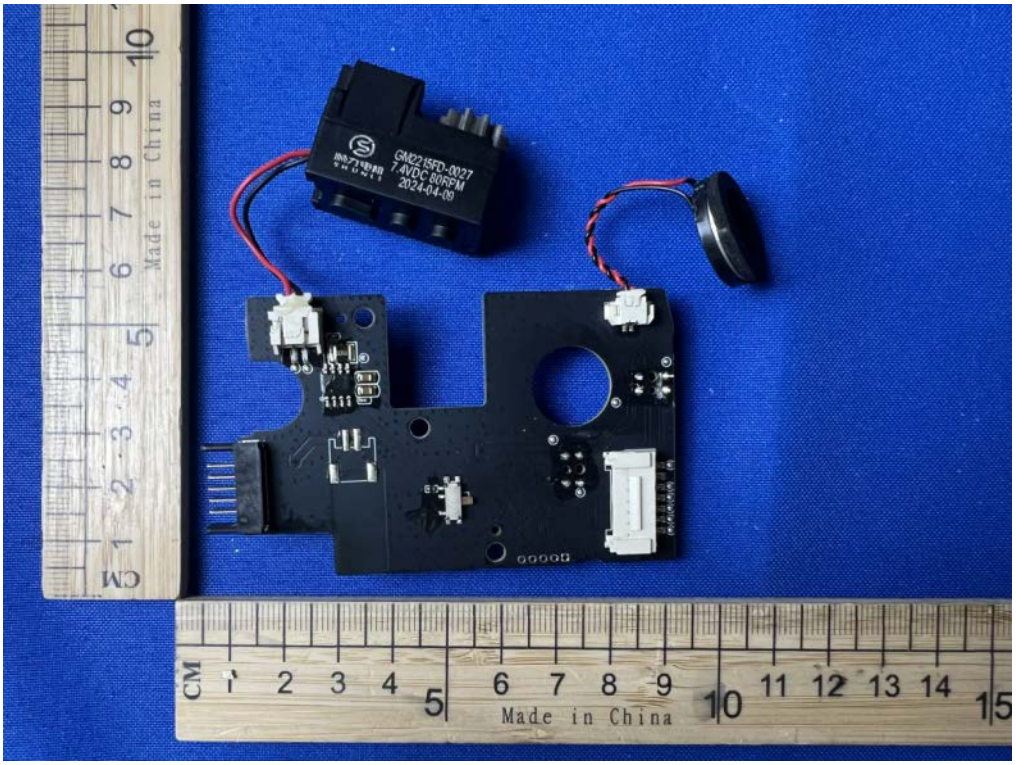
Made in China

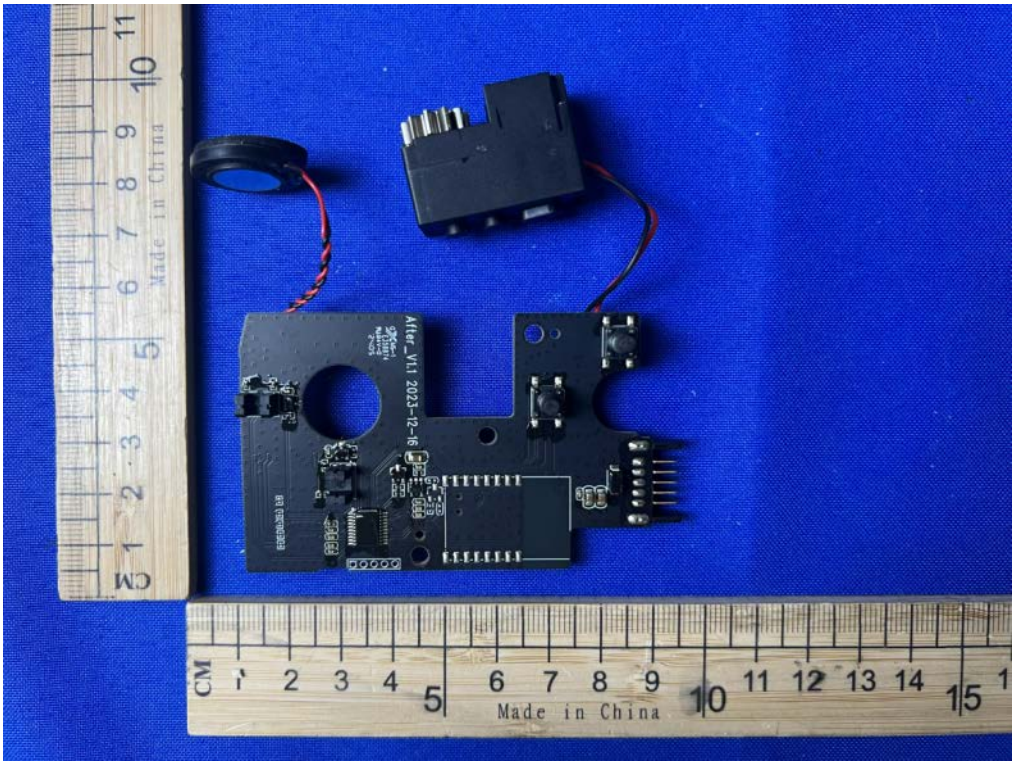

CM
Made in China

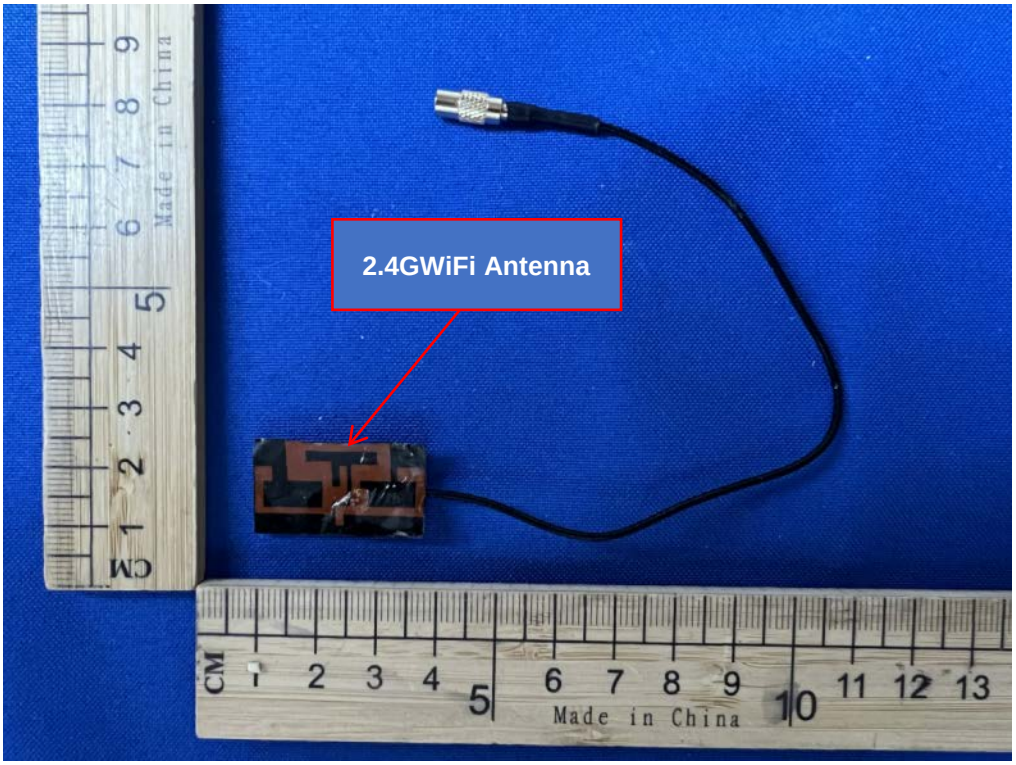

CM
1 2 3 4 5 6 7 8
Made in Chi

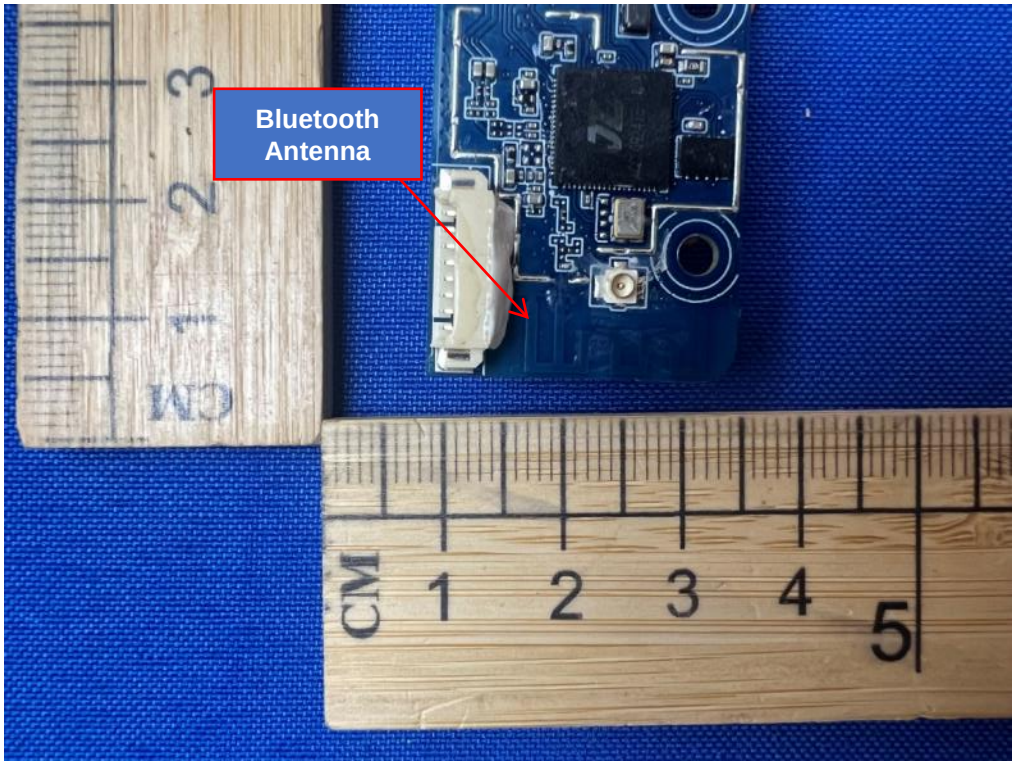
Smart Lock Lithium Battery
Models: A28
Nameplate capacity: 2800mAh
nominal voltage: 7.4V
Charging limit voltage: 8.6V-2.0A
Implementation standards: GB31241-2014
Warning
Do not disassemble, impact, squeeze or put into fire. Do not continue to use in case of serious expansion. Do not place in high temperature or any liquid. Do not disassemble the battery by yourself.
Manufacturer:
Guangdong Weineng New Energy Technology Co. Ltd.
CM
1 2 3 4 5 6 7 8 9 10 11 12 13
Made in China

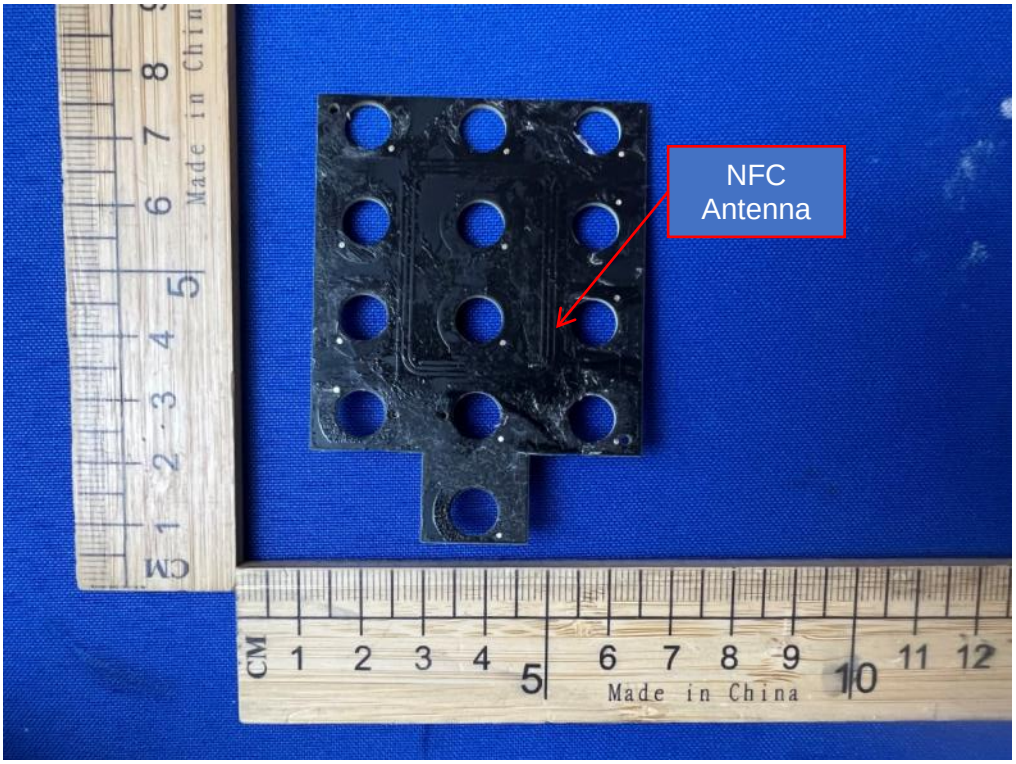
Made in China

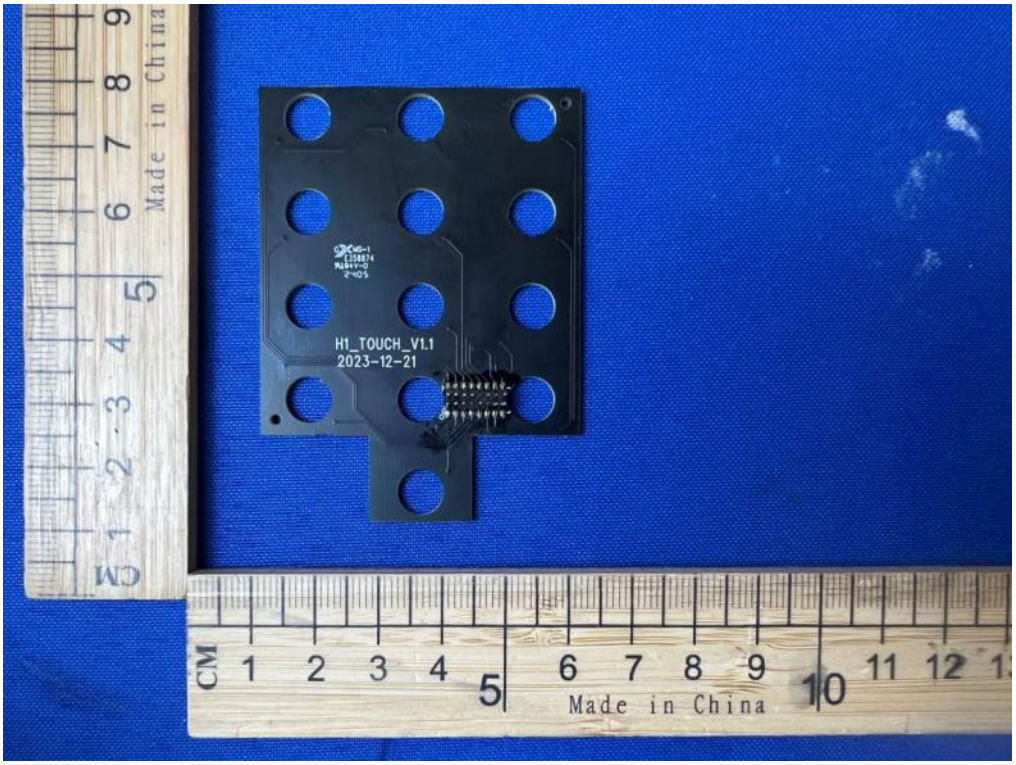

GMD215FD-0027
7.4VDC 80RPM
2024-04-09
Made in China


After V1.1 2023-12-16
Made in China


2.4GWiFi Antenna
Made in China


Bluetooth
Antenna


NFC
Antenna
Made in China



END OF REPORT