

RF Test Data for Bluetooth (BR+EDR) (Conducted Measurements)

General Description of EUT	
EUT Name:	Portable Gaming Computer(Tablet computer)
Model:	AYANEO Pocket DMG
Sample ID:	HC-C-202410-0245-01-01-2#
Environmental Conditions	
Ambient Temperature:	24.5℃
Ambient Humidity:	47%RH
Test Power Supply:	DC 3.85V
Test Engineer:	Zkn.zhou
Note: For a more detailed features description, please refer to the report TBR-C-202410-0245-14	

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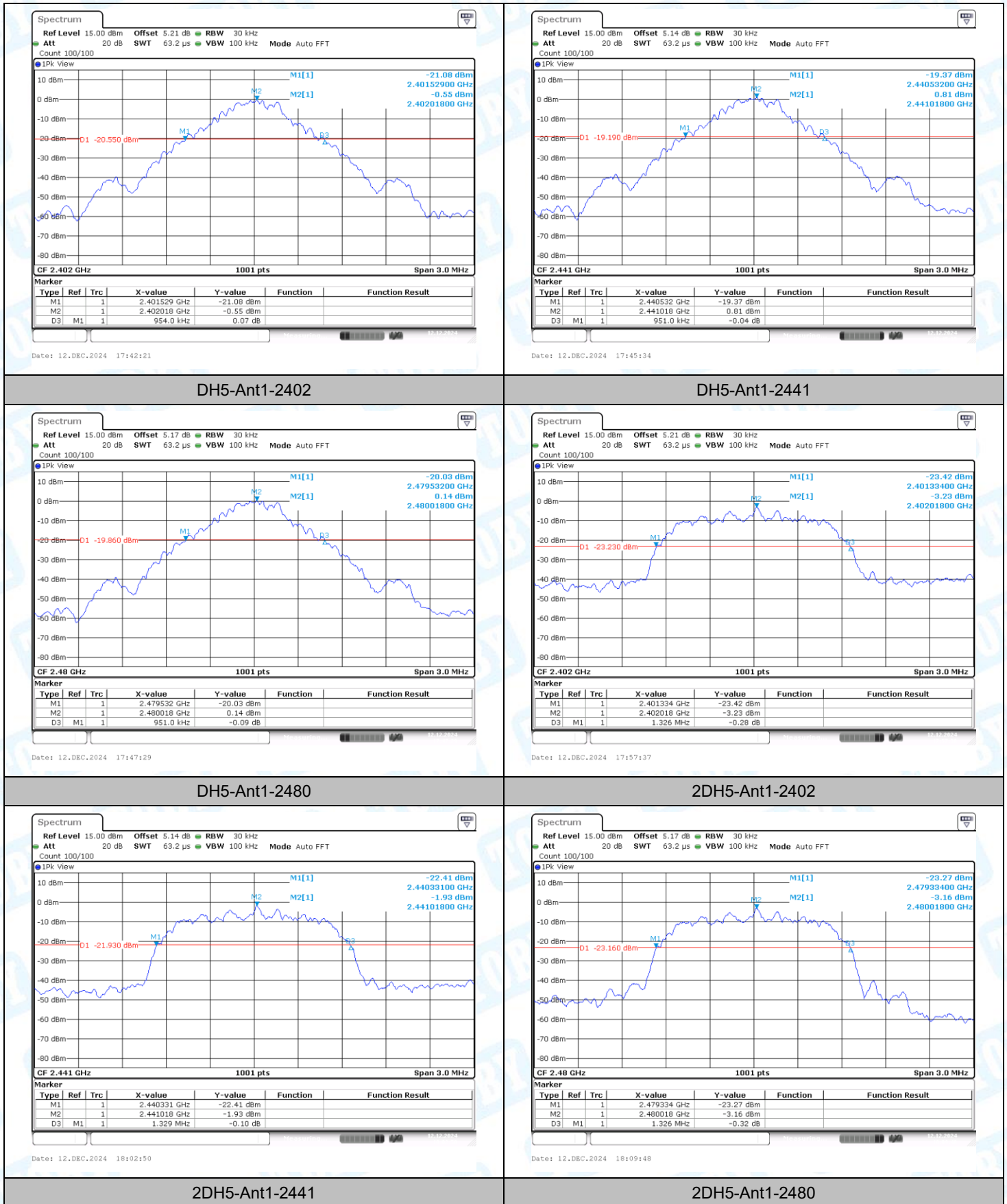
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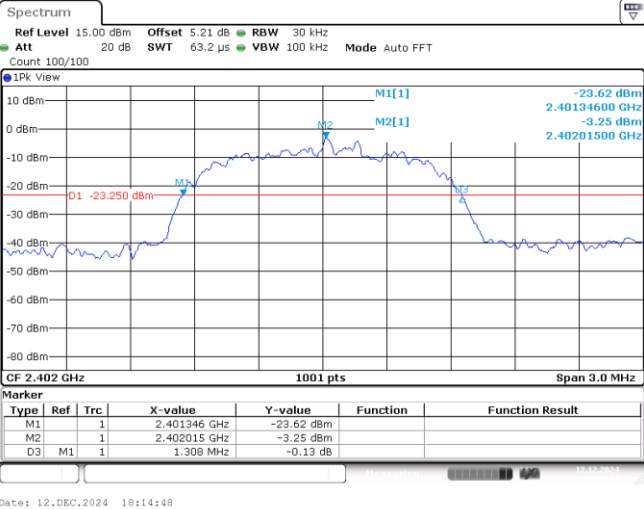
1: 20dB Emission Bandwidth

1.1 Test Result

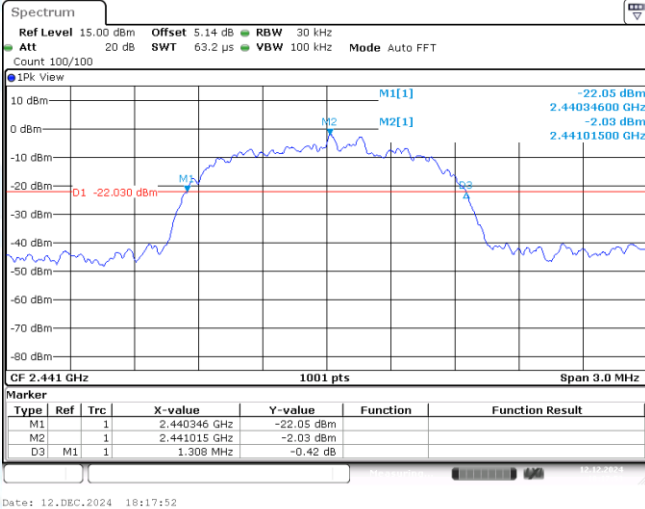
Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.53	2402.48	---	---
DH5	Ant1	2441	0.95	2440.53	2441.48	---	---
DH5	Ant1	2480	0.95	2479.53	2480.48	---	---
2DH5	Ant1	2402	1.33	2401.33	2402.66	---	---
2DH5	Ant1	2441	1.33	2440.33	2441.66	---	---
2DH5	Ant1	2480	1.33	2479.33	2480.66	---	---
3DH5	Ant1	2402	1.31	2401.35	2402.65	---	---
3DH5	Ant1	2441	1.31	2440.35	2441.65	---	---
3DH5	Ant1	2480	1.31	2479.34	2480.65	---	---

1.2 Test Graphs

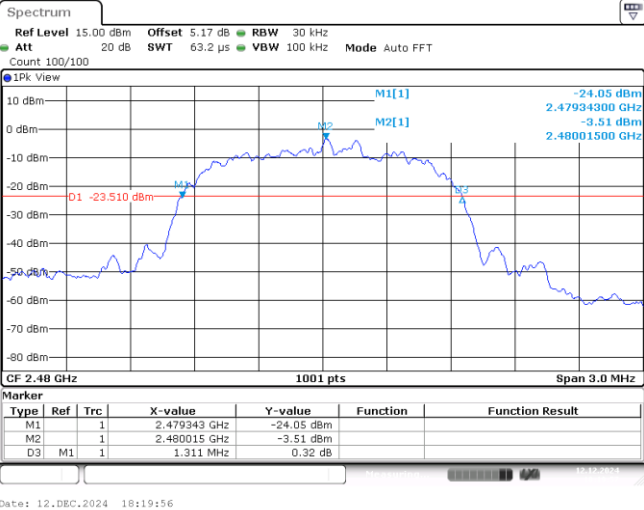




3DH5-Ant1-2402



3DH5-Ant1-2441



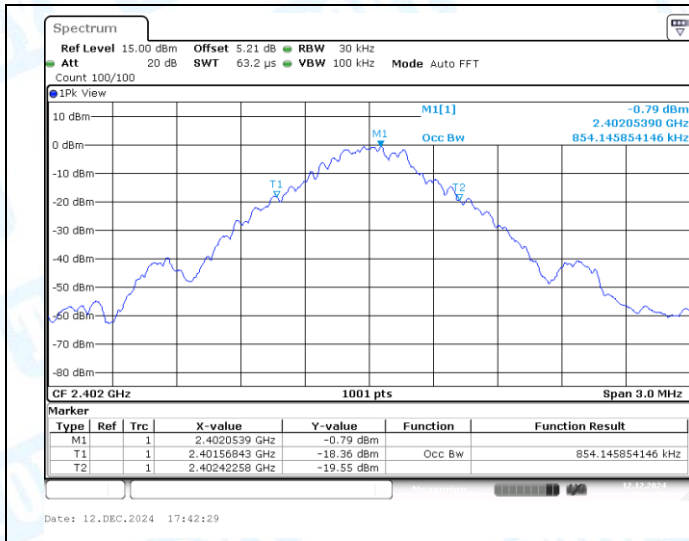
3DH5-Ant1-2480

2: Occupied Channel Bandwidth

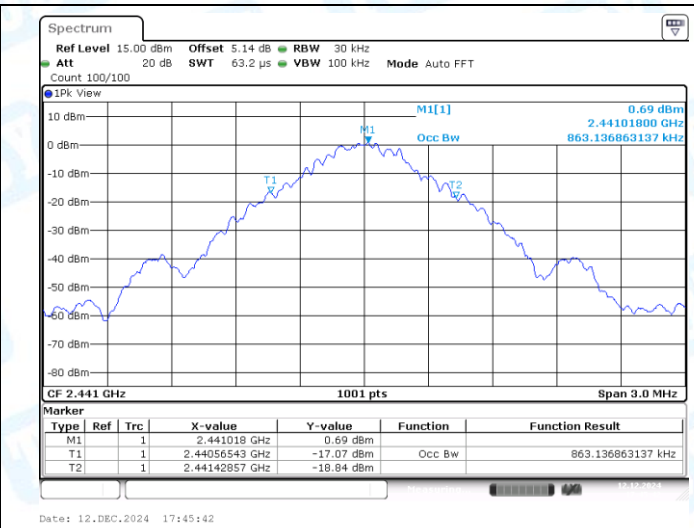
2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.854	2401.5684	2402.4226	---	---
DH5	Ant1	2441	0.863	2440.5654	2441.4286	---	---
DH5	Ant1	2480	0.857	2479.5684	2480.4256	---	---
2DH5	Ant1	2402	1.193	2401.4036	2402.5964	---	---
2DH5	Ant1	2441	1.187	2440.4036	2441.5904	---	---
2DH5	Ant1	2480	1.187	2479.4036	2480.5904	---	---
3DH5	Ant1	2402	1.19	2401.4036	2402.5934	---	---
3DH5	Ant1	2441	1.19	2440.4006	2441.5904	---	---
3DH5	Ant1	2480	1.181	2479.4066	2480.5874	---	---

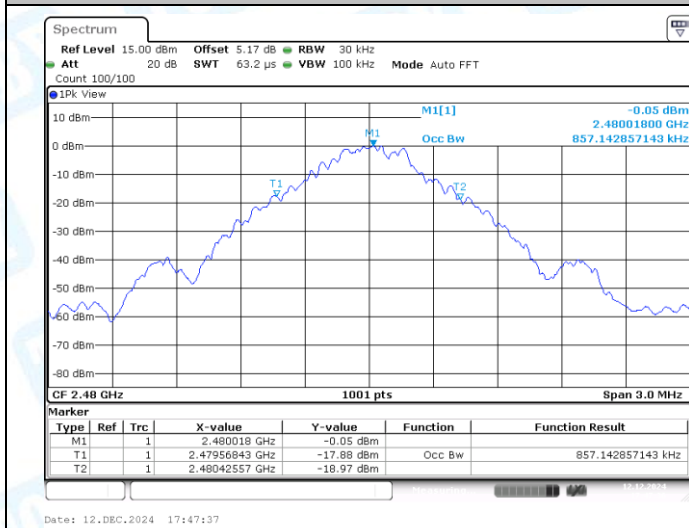
2.2 Test Graphs



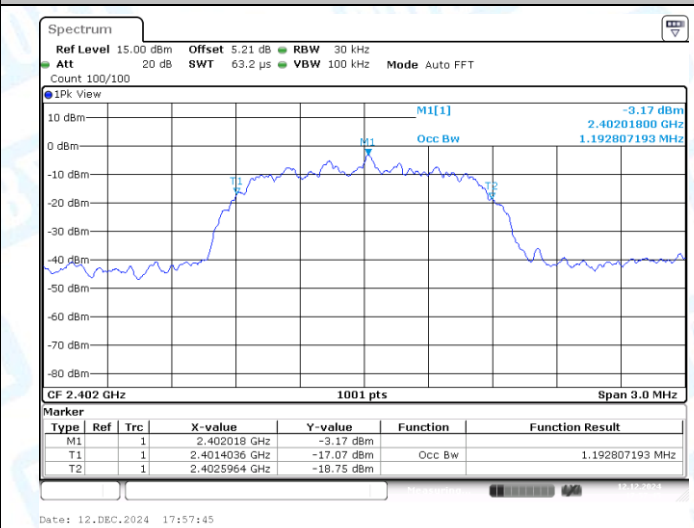
DH5-Ant1-2402



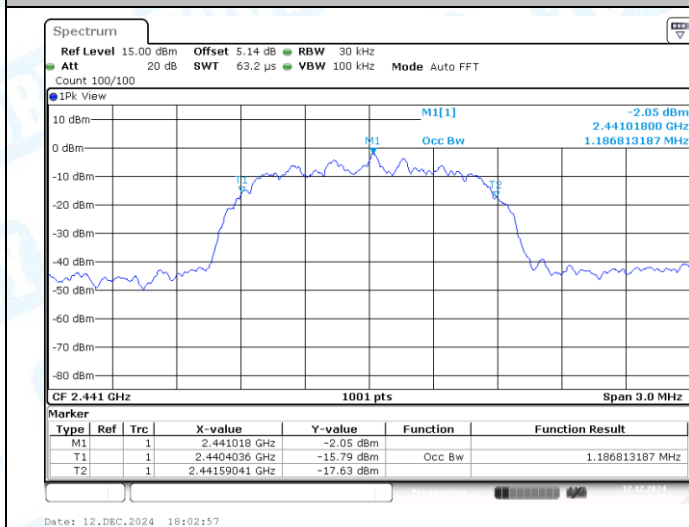
DH5-Ant1-2441



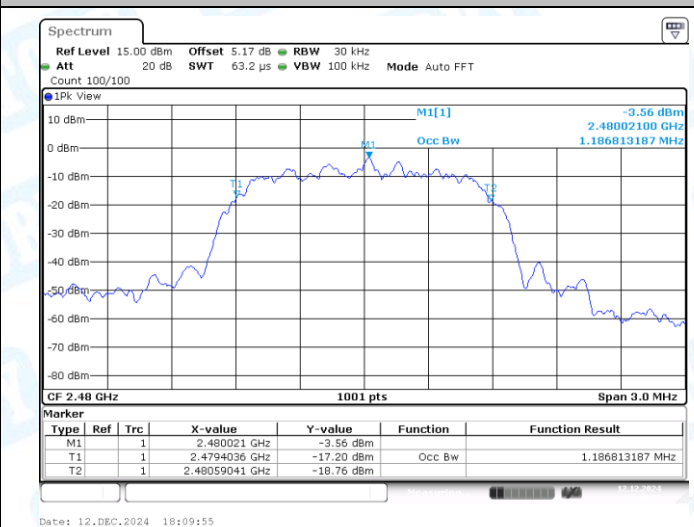
DH5-Ant1-2480



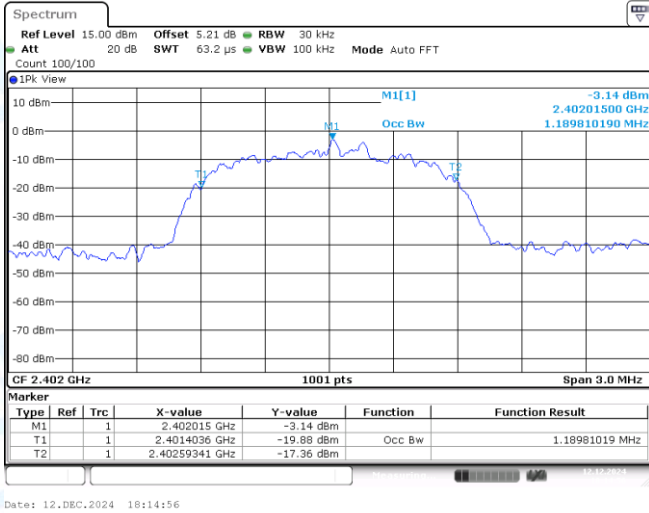
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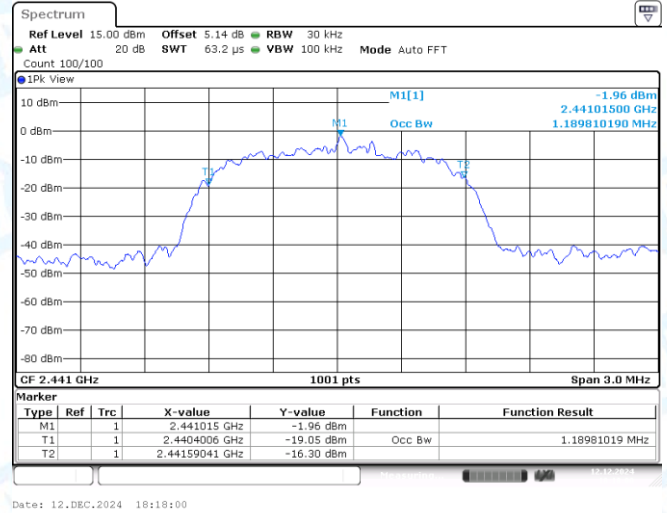
2DH5-Ant1-2441



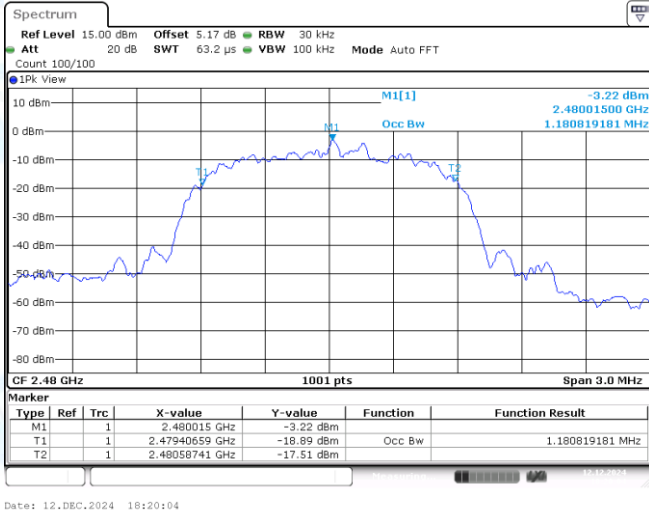
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



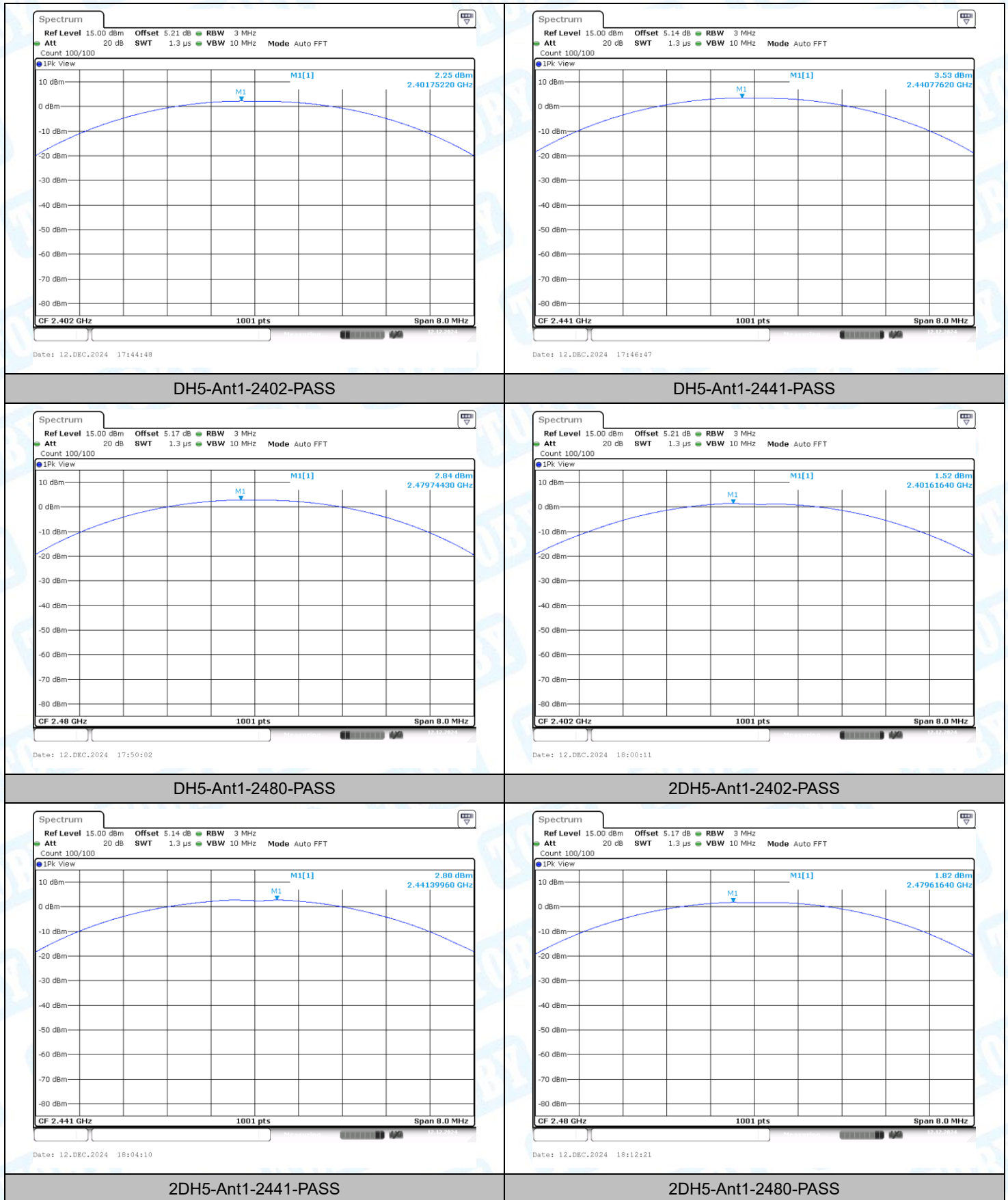
3DH5-Ant1-2480

3: Maximum conducted peak output power

3.1 Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.25	≤21	PASS
DH5	Ant1	2441	3.53	≤21	PASS
DH5	Ant1	2480	2.84	≤21	PASS
2DH5	Ant1	2402	1.52	≤21	PASS
2DH5	Ant1	2441	2.80	≤21	PASS
2DH5	Ant1	2480	1.82	≤21	PASS
3DH5	Ant1	2402	1.65	≤21	PASS
3DH5	Ant1	2441	2.92	≤21	PASS
3DH5	Ant1	2480	2.10	≤21	PASS

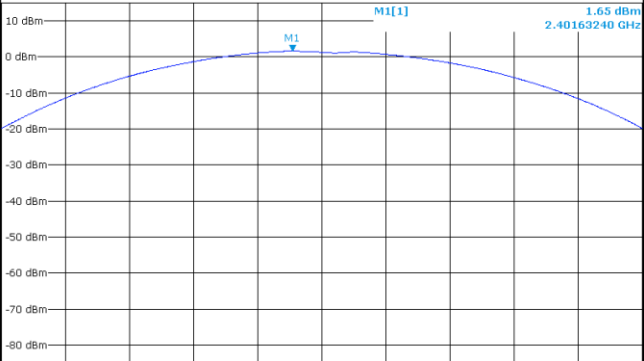
3.2 Test Graphs



Spectrum

Ref Level 15.00 dBm Offset 5.21 dB RBW 3 MHz
Att 20 dB SWT 1.3 μ s VBW 10 MHz Mode Auto FFT
Count 100/100

1Pk View



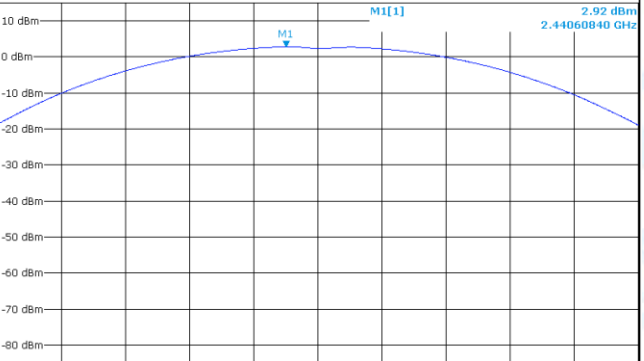
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3DH5-Ant1-2402-PASS

Spectrum

Ref Level 15.00 dBm Offset 5.14 dB RBW 3 MHz
Att 20 dB SWT 1.3 μ s VBW 10 MHz Mode Auto FFT
Count 100/100

1Pk View



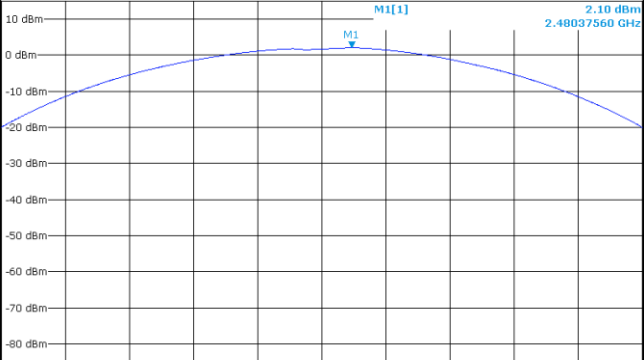
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3DH5-Ant1-2441-PASS

Spectrum

Ref Level 15.00 dBm Offset 5.17 dB RBW 3 MHz
Att 20 dB SWT 1.3 μ s VBW 10 MHz Mode Auto FFT
Count 100/100

1Pk View



Date: 12.DEC.2024 18:22:25

3DH5-Ant1-2480-PASS

4: Carrier frequency separation

4.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.849	≥ 0.633	PASS
2DH5	Ant1	Hop	1.255	≥ 0.887	PASS
3DH5	Ant1	Hop	0.977	≥ 0.873	PASS

4.2 Test Graphs

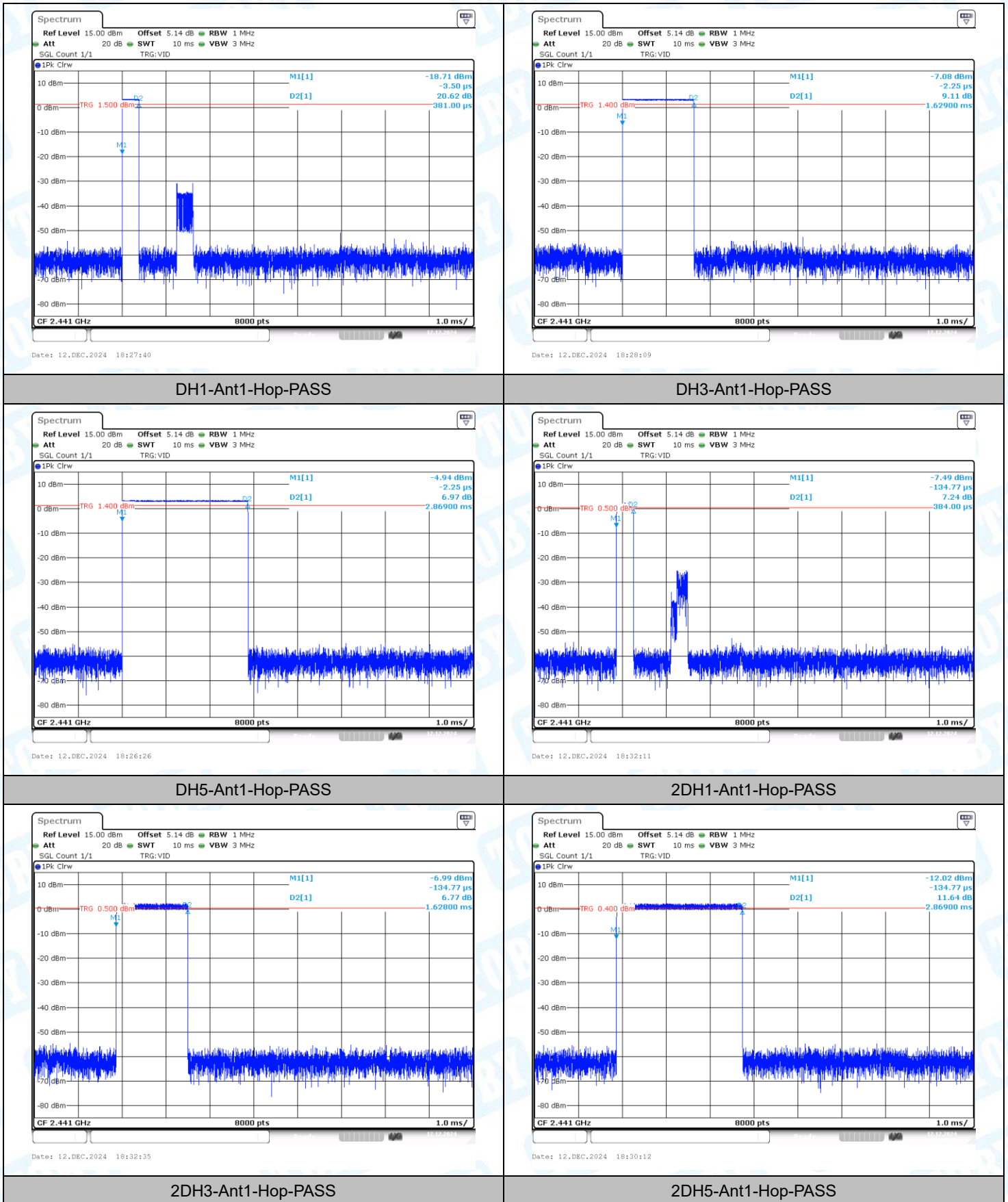


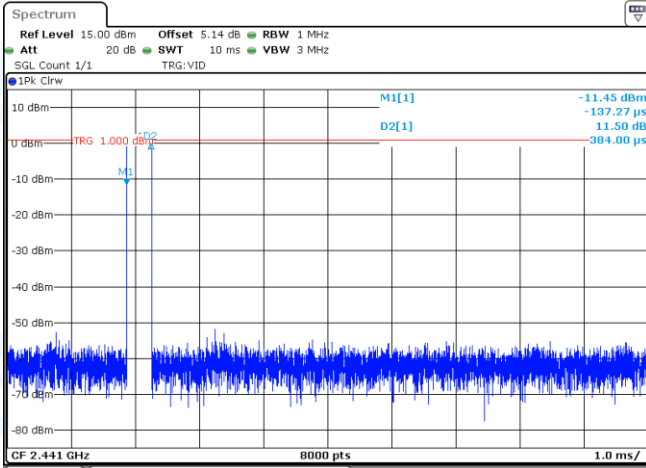
5: Time of occupancy

5.1 Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.869	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.869	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS

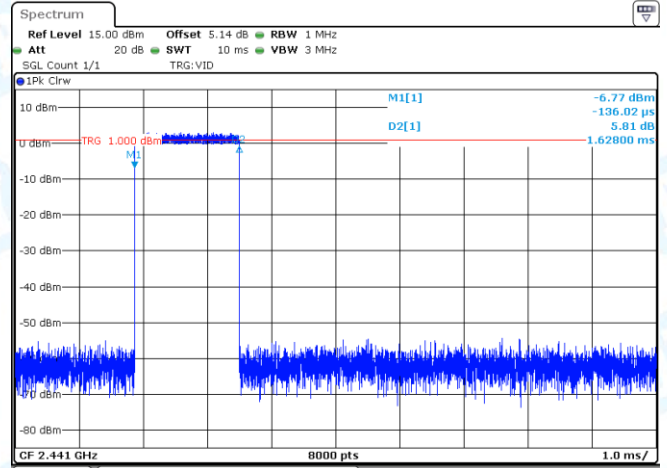
5.2 Test Graphs





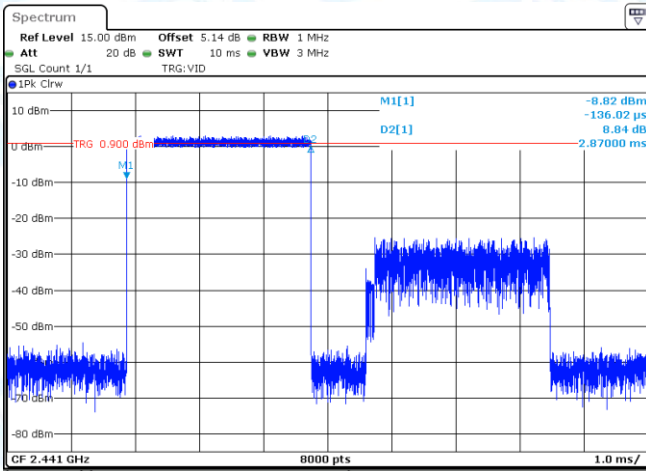
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3DH1-Ant1-Hop-PASS



Date: 12.DEC.2024 18:37:11

3DH3-Ant1-Hop-PASS



Date: 12.DEC.2024 18:34:16

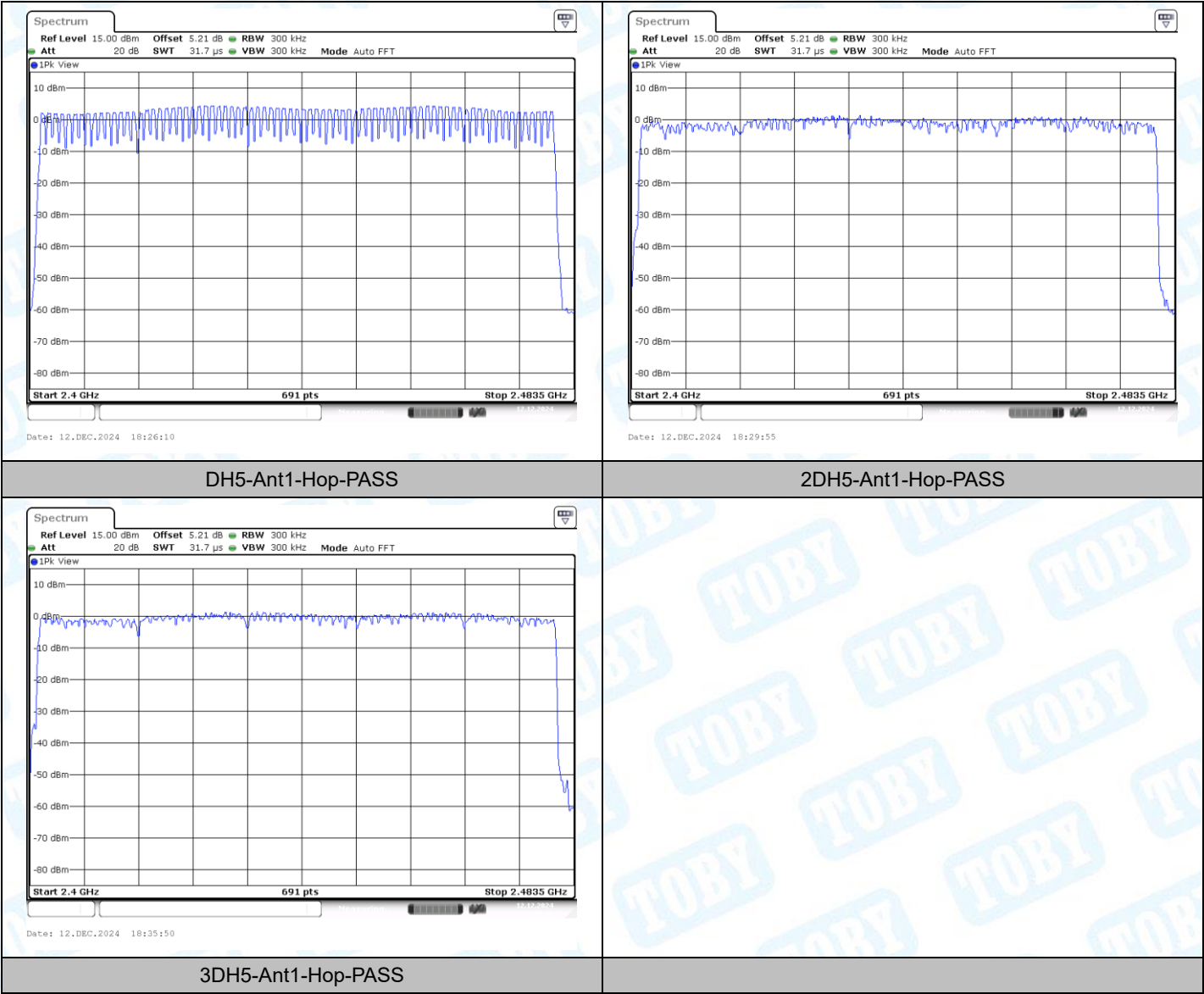
3DH5-Ant1-Hop-PASS

6: Number of hopping channels

6.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.2 Test Graphs

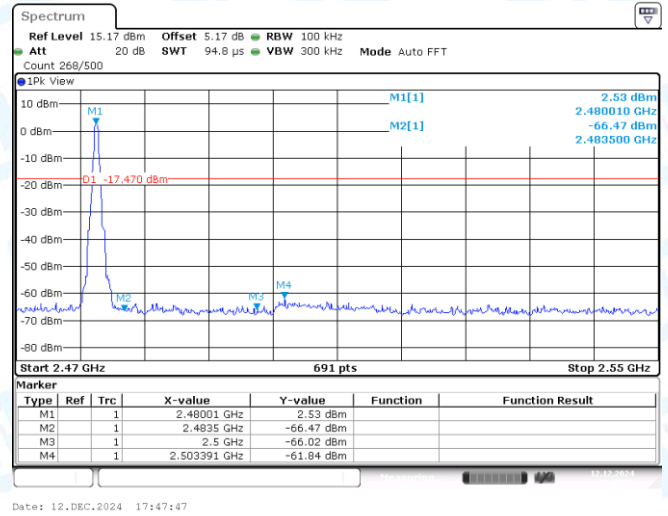
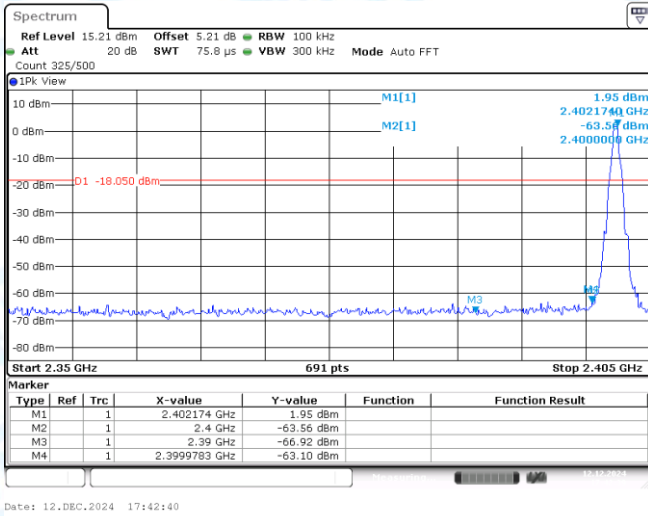


7: Band edge measurements

7.1 Test Result

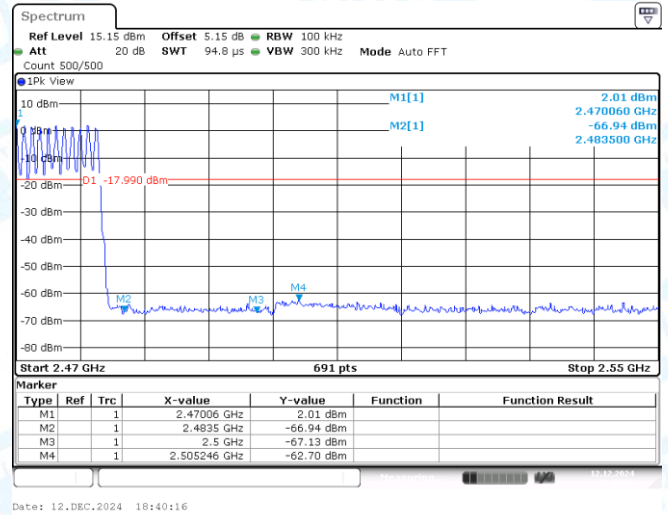
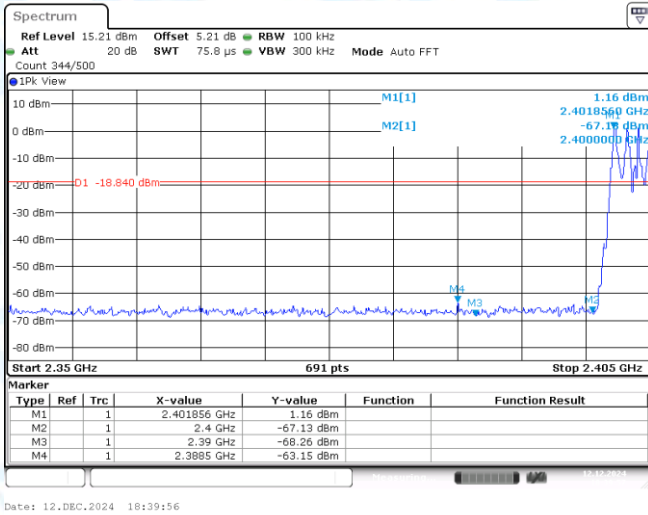
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.95	-63.1	≤-18.05	PASS
DH5	Ant1	High	2480	2.53	-61.84	≤-17.47	PASS
DH5	Ant1	Low	Hop_2402	1.16	-63.15	≤-18.84	PASS
DH5	Ant1	High	Hop_2480	2.01	-62.7	≤-17.99	PASS
2DH5	Ant1	Low	2402	-1.27	-59.54	≤-21.27	PASS
2DH5	Ant1	High	2480	-1.99	-62.88	≤-21.99	PASS
2DH5	Ant1	Low	Hop_2402	-4.23	-63.43	≤-24.23	PASS
2DH5	Ant1	High	Hop_2480	-0.36	-62.68	≤-20.36	PASS
3DH5	Ant1	Low	2402	-0.91	-57.3	≤-20.91	PASS
3DH5	Ant1	High	2480	-1.41	-62.45	≤-21.41	PASS
3DH5	Ant1	Low	Hop_2402	-1.20	-60.26	≤-21.2	PASS
3DH5	Ant1	High	Hop_2480	-2.65	-62.47	≤-22.65	PASS

7.2 Test Graphs



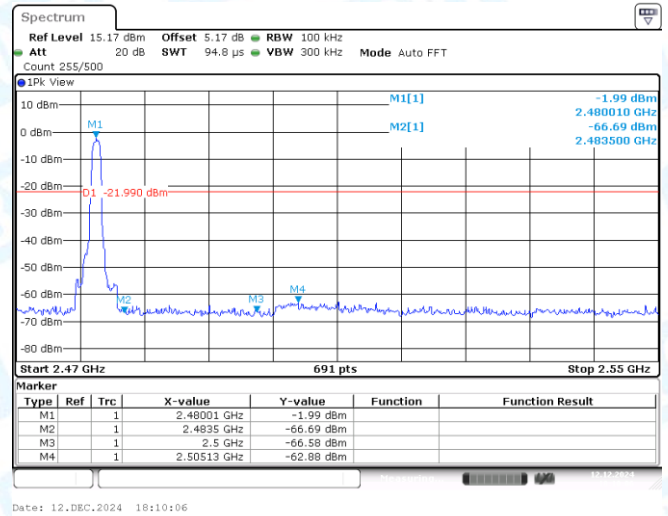
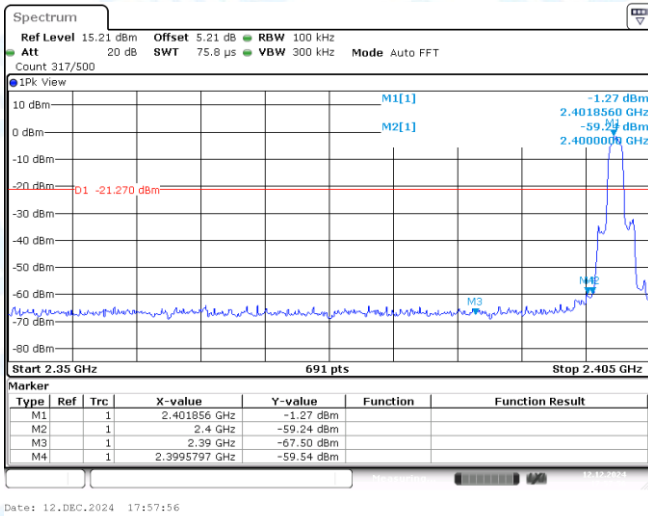
DH5-Ant1-2402-PASS

DH5-Ant1-2480-PASS



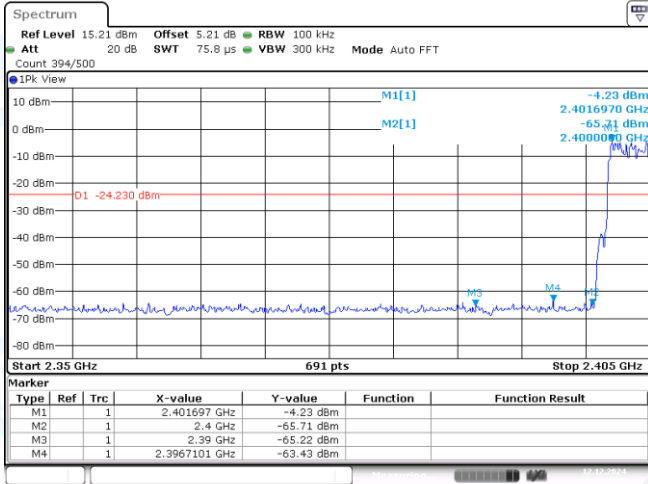
DH5-Ant1-Hop_2402-PASS

DH5-Ant1-Hop_2480-PASS



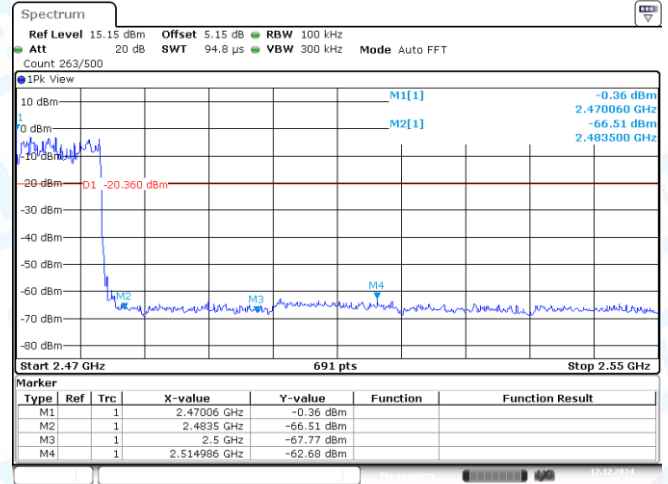
2DH5-Ant1-2402-PASS

2DH5-Ant1-2480-PASS



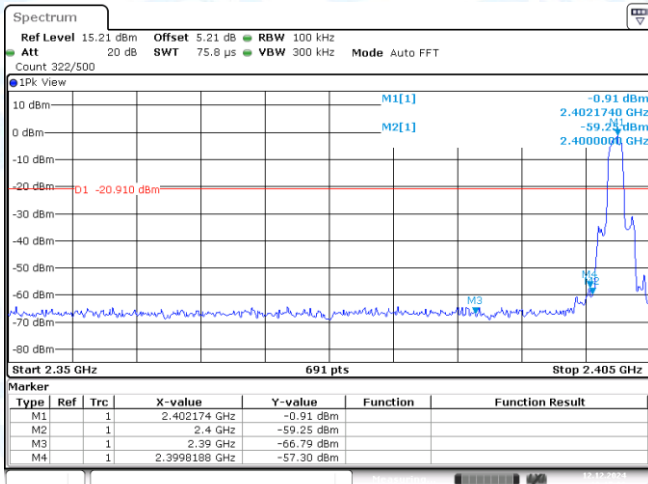
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2DH5-Ant1-Hop_2402-PASS



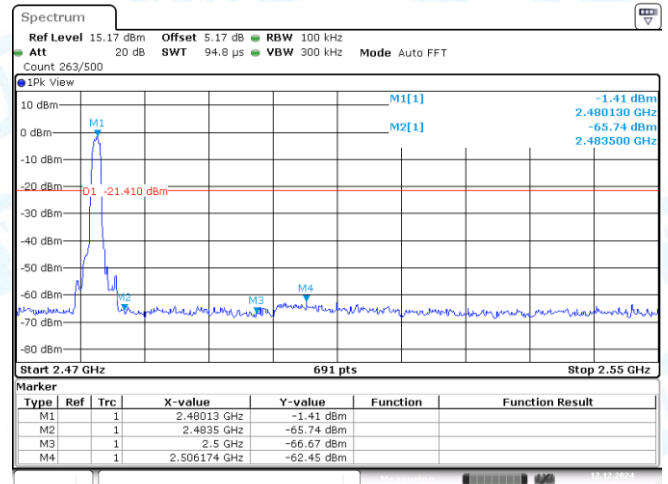
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2DH5-Ant1-Hop_2480-PASS



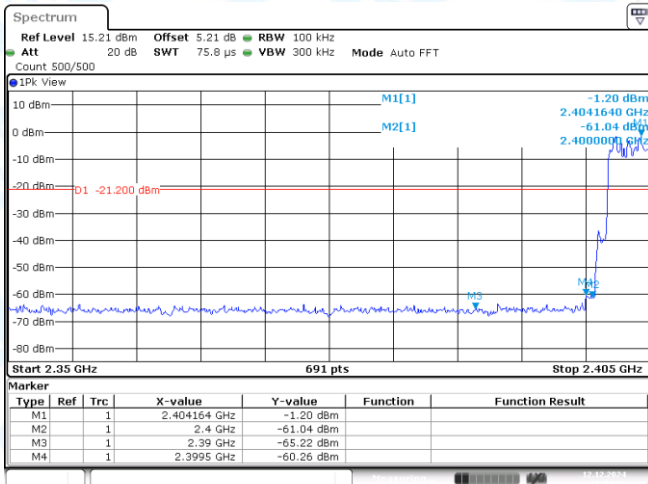
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3DH5-Ant1-2402-PASS



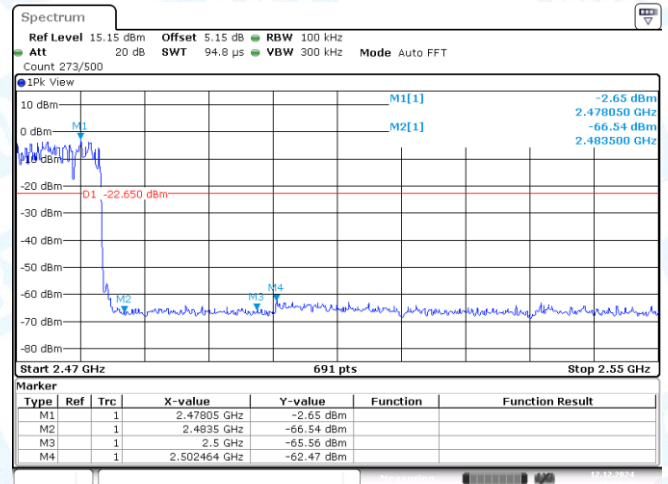
Date: 12.DEC.2024 18:20:15

3DH5-Ant1-2480-PASS



Date: 12.DEC.2024 18:33:16

3DH5-Ant1-Hop_2402-PASS



Date: 12.DEC.2024 18:34:47

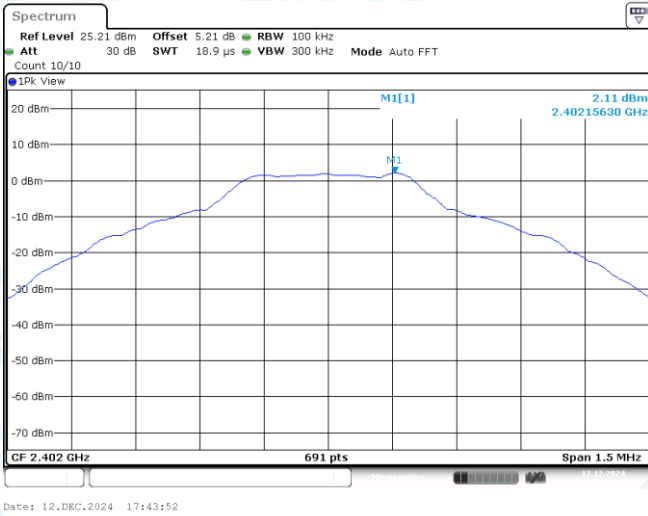
3DH5-Ant1-Hop_2480-PASS

8: Conducted Spurious Emission

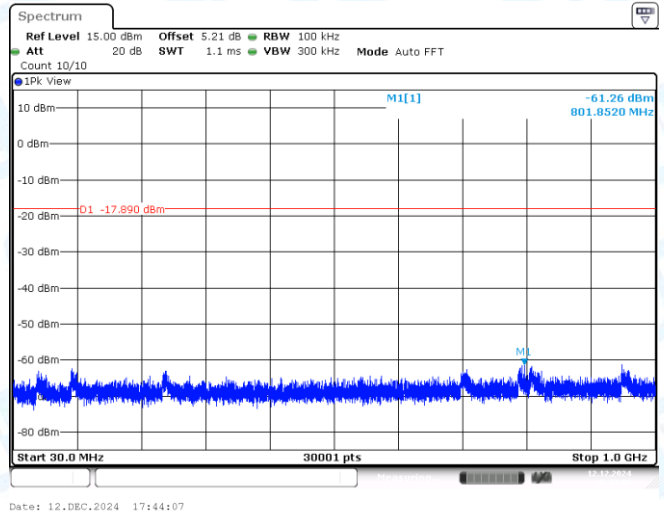
8.1 Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	2.11	2.11	---	PASS
DH5	Ant1	2402	30~1000	2.11	-61.26	≤-17.89	PASS
DH5	Ant1	2402	1000~26500	2.11	-55.62	≤-17.89	PASS
DH5	Ant1	2441	0~Reference	3.37	3.37	---	PASS
DH5	Ant1	2441	30~1000	3.37	-61.83	≤-16.63	PASS
DH5	Ant1	2441	1000~26500	3.37	-55.86	≤-16.63	PASS
DH5	Ant1	2480	0~Reference	2.68	2.68	---	PASS
DH5	Ant1	2480	30~1000	2.68	-60.93	≤-17.32	PASS
DH5	Ant1	2480	1000~26500	2.68	-55.97	≤-17.32	PASS
2DH5	Ant1	2402	0~Reference	-0.57	-0.57	---	PASS
2DH5	Ant1	2402	30~1000	-0.57	-61.36	≤-20.57	PASS
2DH5	Ant1	2402	1000~26500	-0.57	-55.78	≤-20.57	PASS
2DH5	Ant1	2441	0~Reference	0.63	0.63	---	PASS
2DH5	Ant1	2441	30~1000	0.63	-61.07	≤-19.37	PASS
2DH5	Ant1	2441	1000~26500	0.63	-56.4	≤-19.37	PASS
2DH5	Ant1	2480	0~Reference	-0.74	-0.74	---	PASS
2DH5	Ant1	2480	30~1000	-0.74	-61.52	≤-20.74	PASS
2DH5	Ant1	2480	1000~26500	-0.74	-55.88	≤-20.74	PASS
3DH5	Ant1	2402	0~Reference	-0.57	-0.57	---	PASS
3DH5	Ant1	2402	30~1000	-0.57	-61.29	≤-20.57	PASS
3DH5	Ant1	2402	1000~26500	-0.57	-55.6	≤-20.57	PASS
3DH5	Ant1	2441	0~Reference	0.57	0.57	---	PASS
3DH5	Ant1	2441	30~1000	0.57	-60.81	≤-19.43	PASS
3DH5	Ant1	2441	1000~26500	0.57	-55.97	≤-19.43	PASS
3DH5	Ant1	2480	0~Reference	-0.70	-0.70	---	PASS
3DH5	Ant1	2480	30~1000	-0.70	-59.47	≤-20.7	PASS
3DH5	Ant1	2480	1000~26500	-0.70	-55.78	≤-20.7	PASS

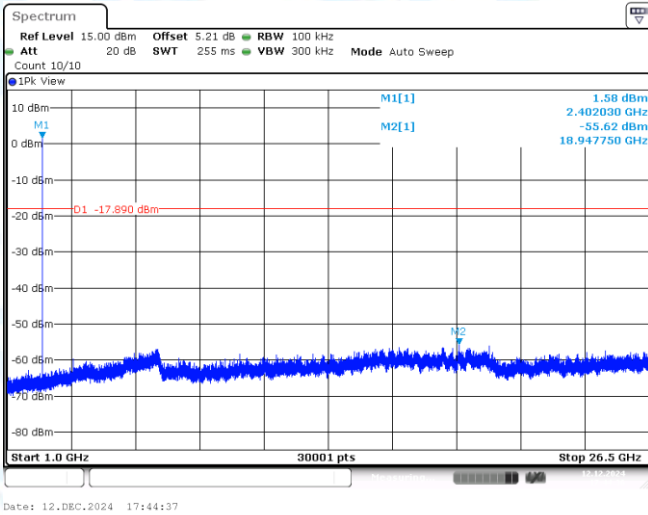
8.2 Test Graphs



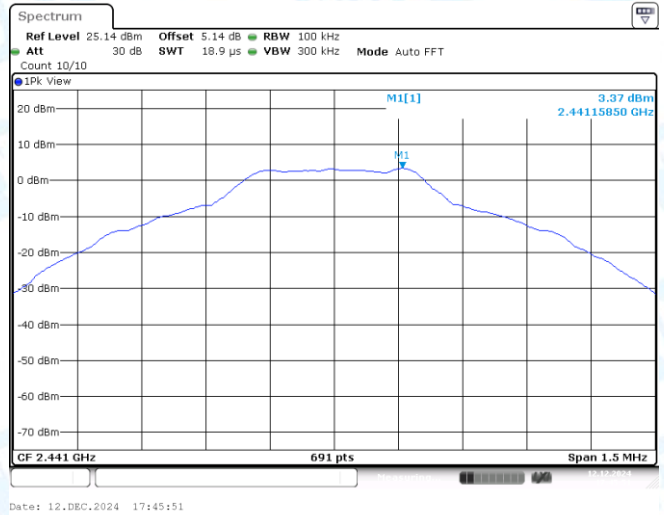
DH5-Ant1-2402-0~Reference-PASS



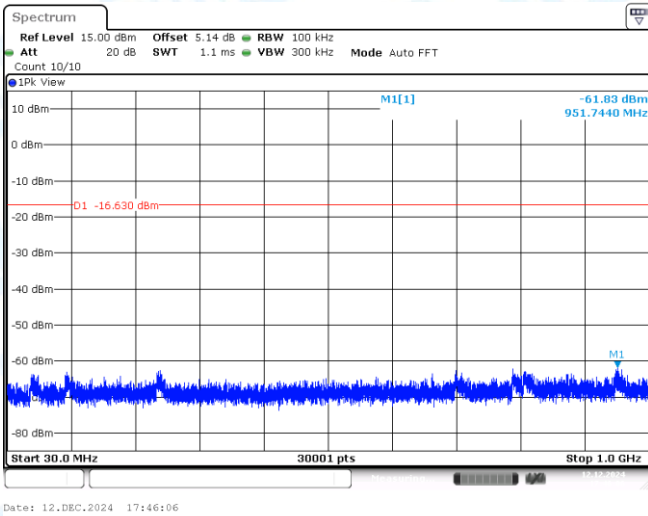
DH5-Ant1-2402-30~1000-PASS



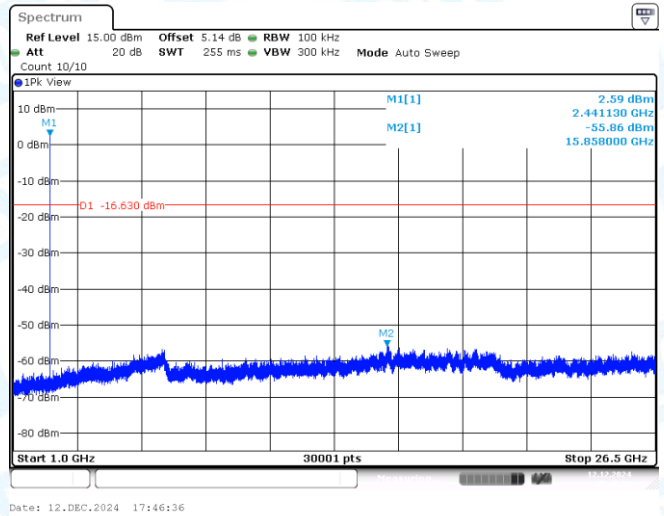
DH5-Ant1-2402-1000~26500-PASS



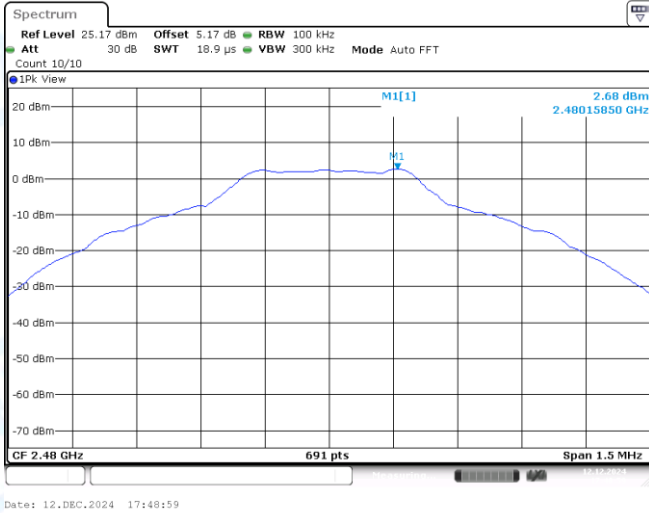
DH5-Ant1-2441-0~Reference-PASS



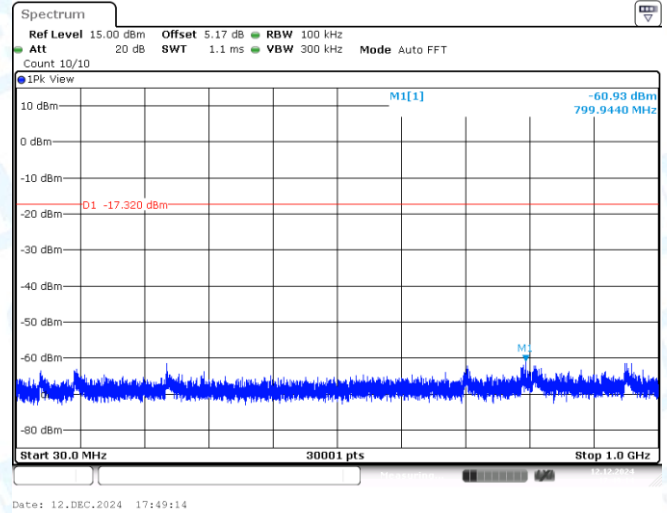
DH5-Ant1-2441-30~1000-PASS



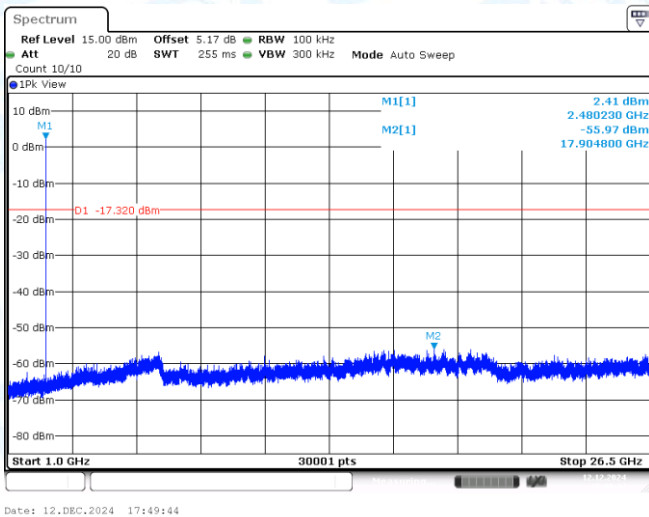
DH5-Ant1-2441-1000~26500-PASS



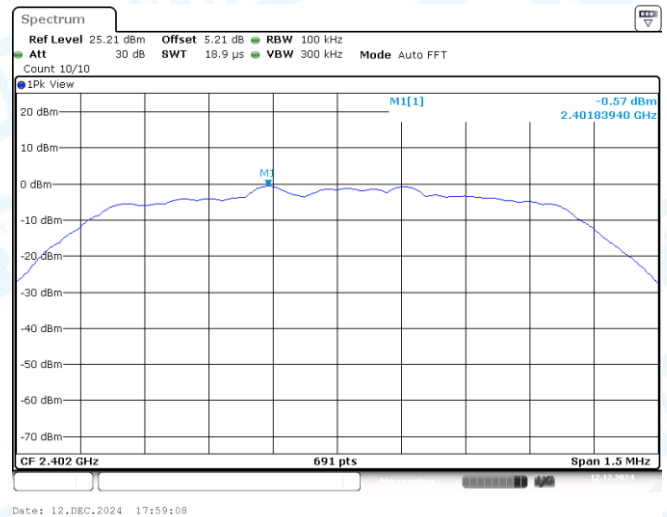
DH5-Ant1-2480-0~Reference-PASS



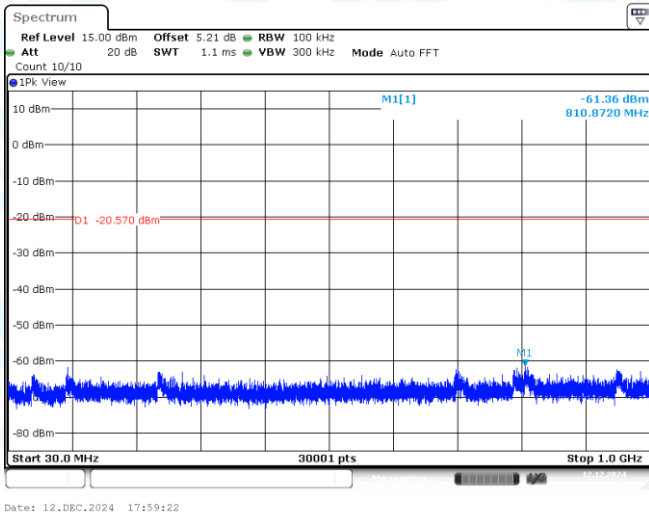
DH5-Ant1-2480-30~1000-PASS



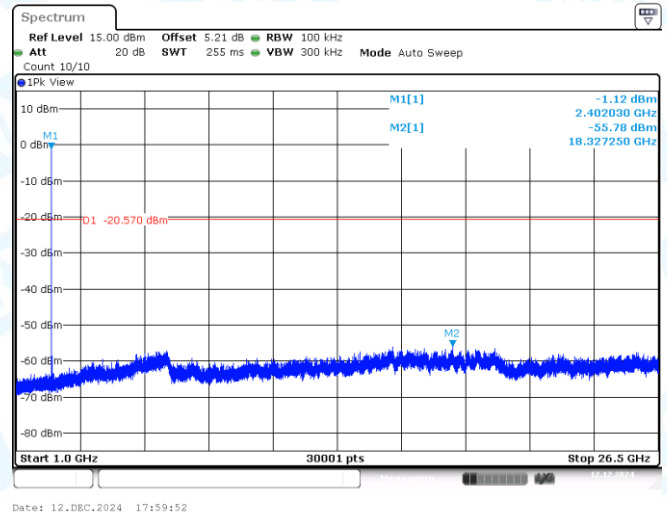
DH5-Ant1-2480-1000~26500-PASS



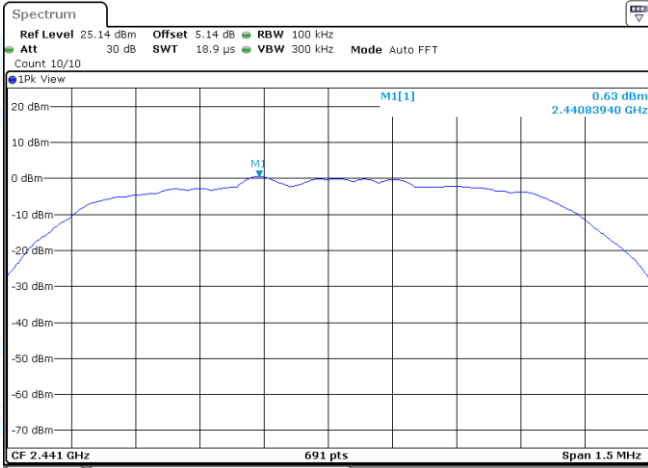
2DH5-Ant1-2402-0~Reference-PASS



2DH5-Ant1-2402-30~1000-PASS

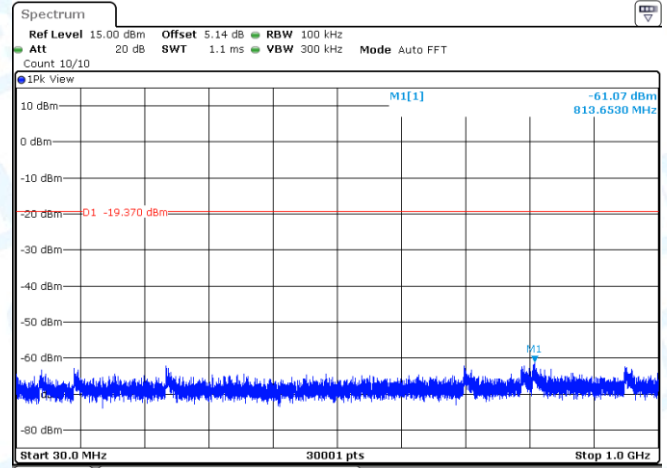


2DH5-Ant1-2402-1000~26500-PASS



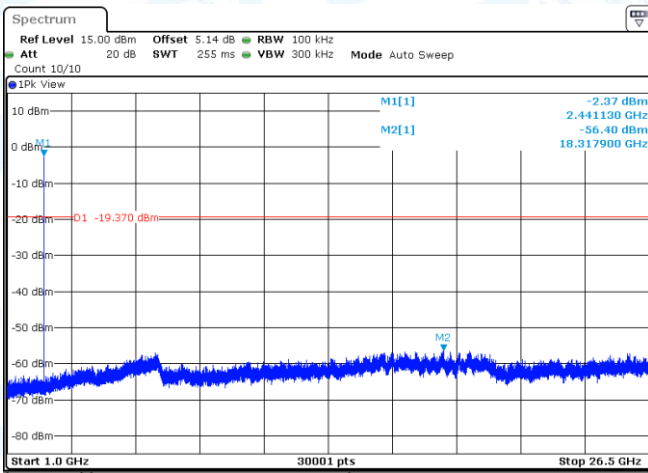
Date: 12.DEC.2024 18:03:07

2DH5-Ant1-2441-0~Reference-PASS



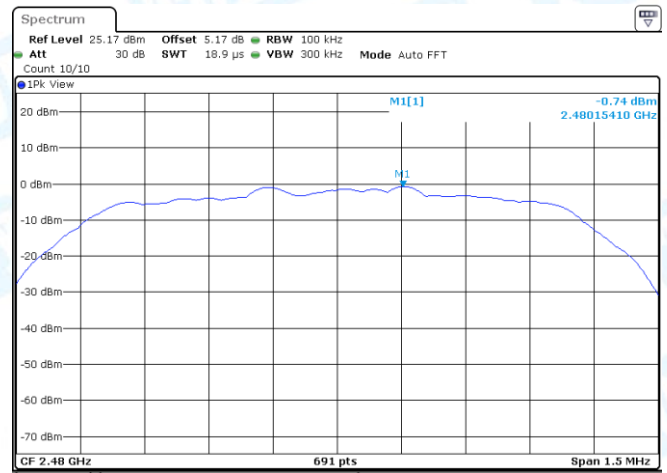
Date: 12.DEC.2024 18:03:21

2DH5-Ant1-2441-30~1000-PASS



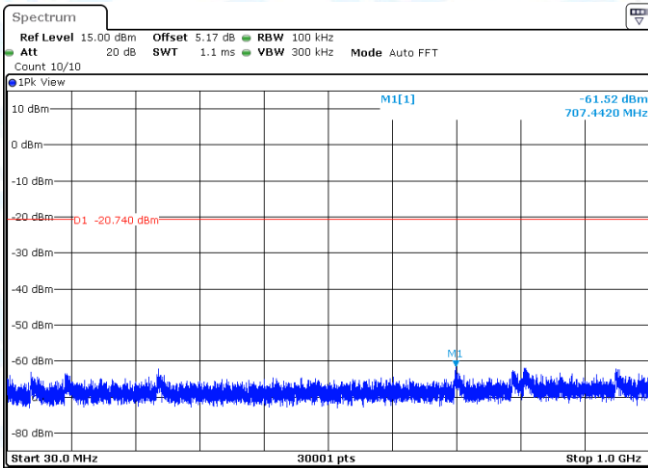
Date: 12.DEC.2024 18:03:51

2DH5-Ant1-2441-1000~26500-PASS



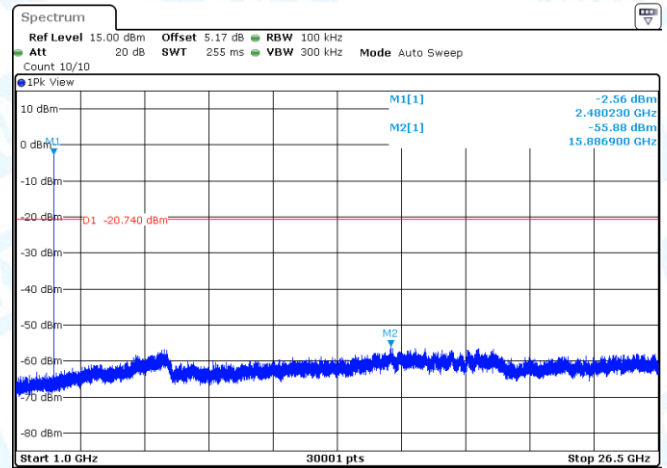
Date: 12.DEC.2024 18:11:18

2DH5-Ant1-2480-0~Reference-PASS



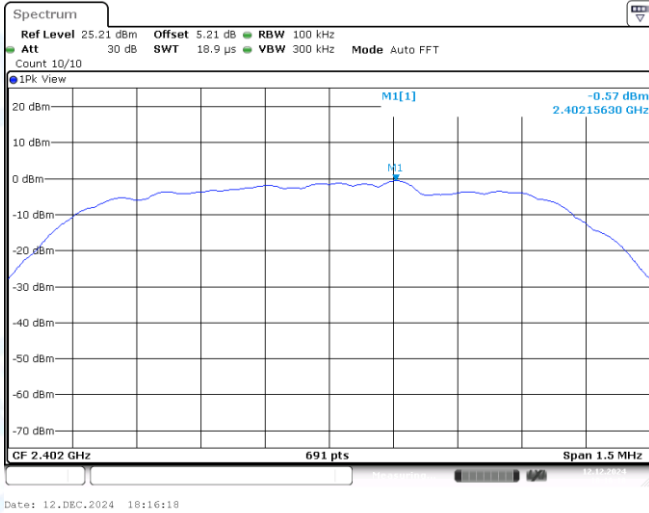
Date: 12.DEC.2024 18:11:33

2DH5-Ant1-2480-30~1000-PASS

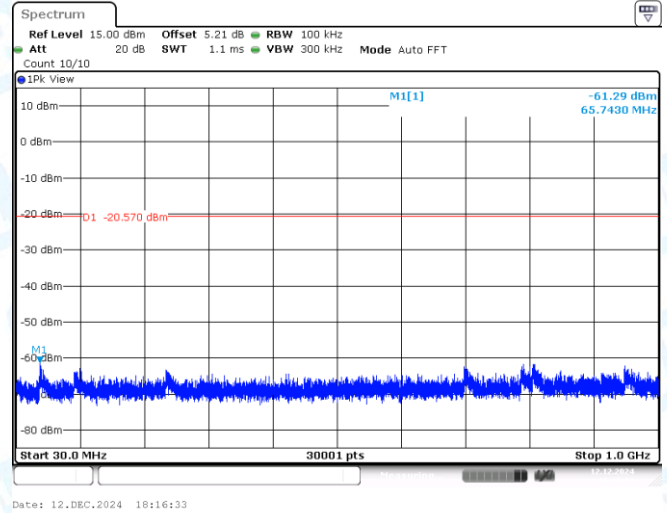


Date: 12.DEC.2024 18:12:02

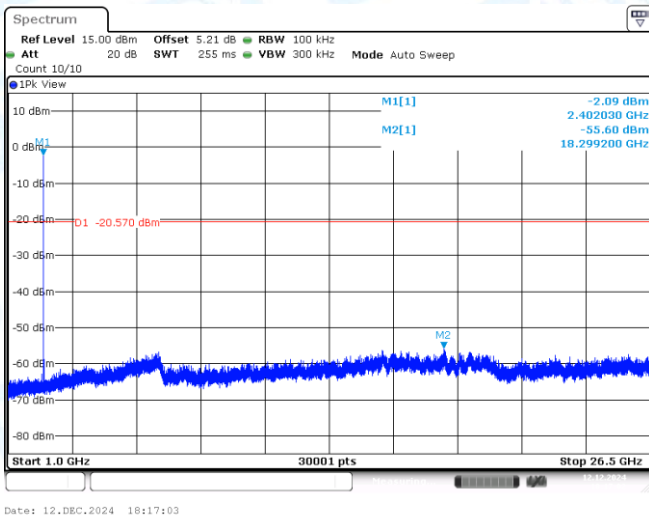
2DH5-Ant1-2480-1000~26500-PASS



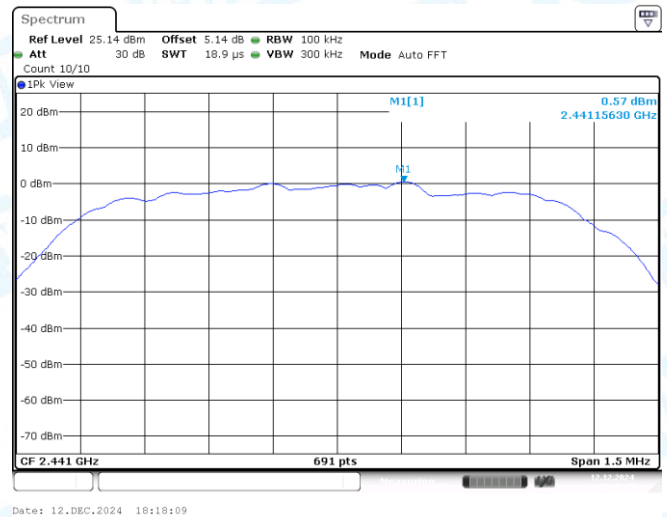
3DH5-Ant1-2402-0~Reference-PASS



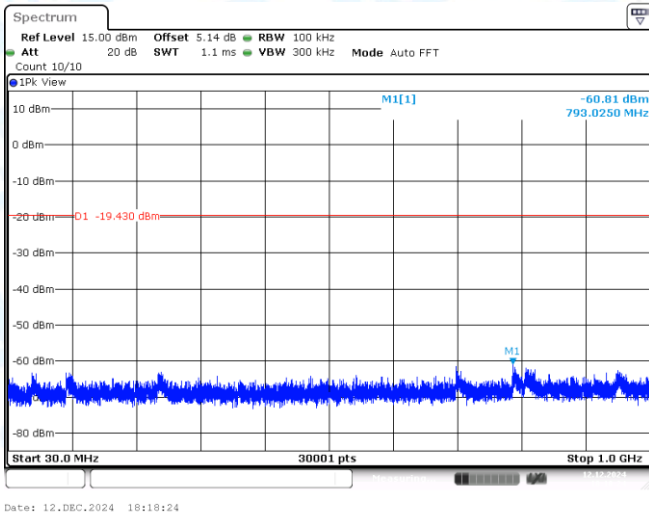
3DH5-Ant1-2402-30~1000-PASS



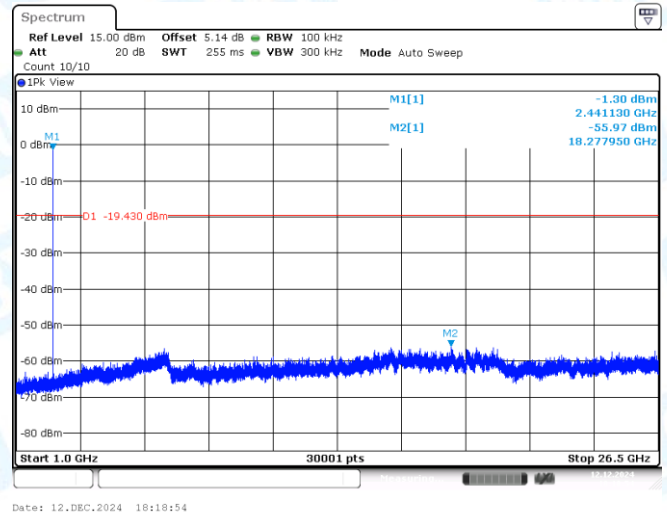
3DH5-Ant1-2402-1000~26500-PASS



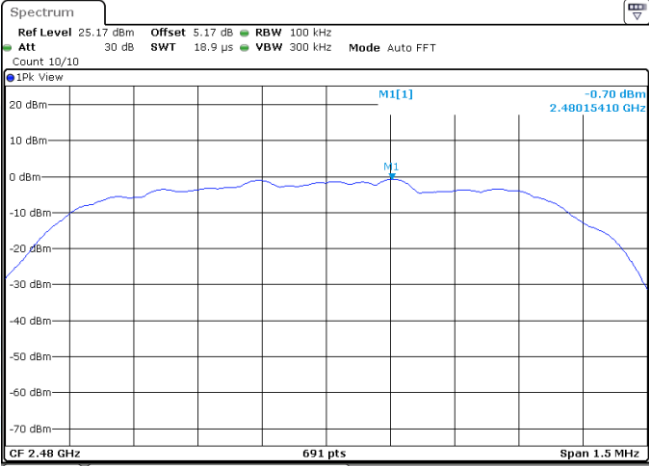
3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS

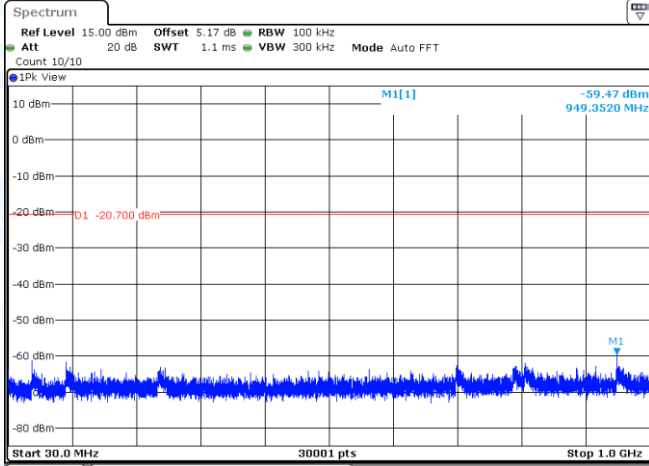


3DH5-Ant1-2441-1000~26500-PASS



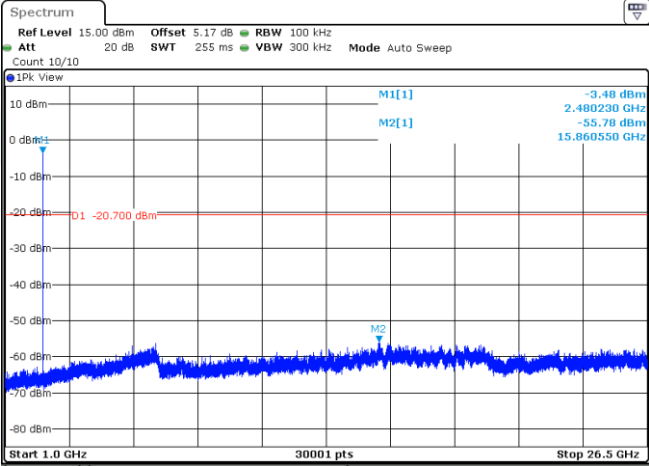
Date: 12.DEC.2024 18:21:27

3DH5-Ant1-2480-0~Reference-PASS



Date: 12.DEC.2024 18:21:42

3DH5-Ant1-2480-30~1000-PASS



Date: 12.DEC.2024 18:22:11

3DH5-Ant1-2480-1000~26500-PASS

9: Duty Cycle

9.1 Test Result

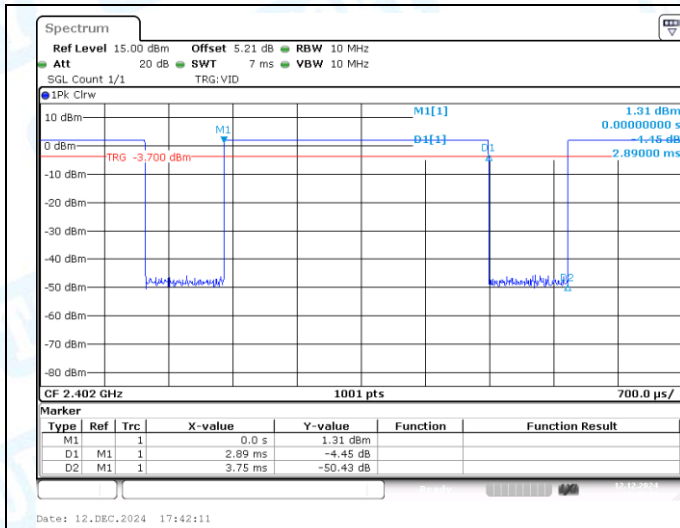
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
DH5	Ant1	2441	2.89	3.75	77.07	1.13	0.35
DH5	Ant1	2480	2.89	3.75	77.07	1.13	0.35
2DH5	Ant1	2402	2.88	3.74	77.01	1.13	0.35
2DH5	Ant1	2441	2.89	3.75	77.07	1.13	0.35
2DH5	Ant1	2480	2.89	3.75	77.07	1.13	0.35
3DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
3DH5	Ant1	2441	2.89	3.75	77.07	1.13	0.35
3DH5	Ant1	2480	2.89	3.75	77.07	1.13	0.35

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

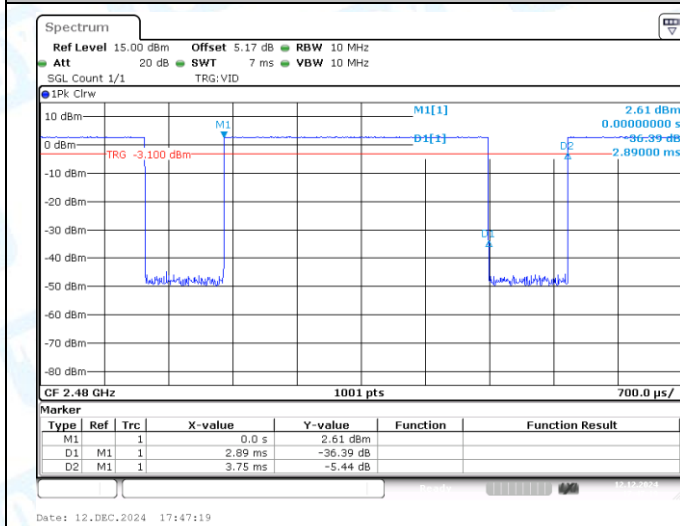
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

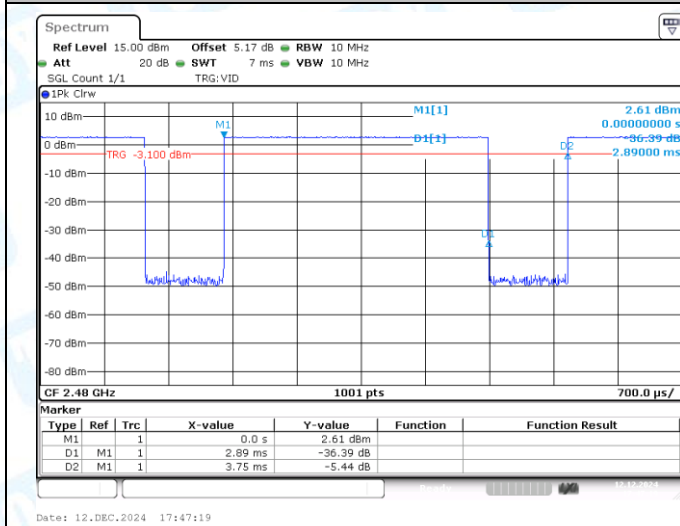
9.2 Test Graphs



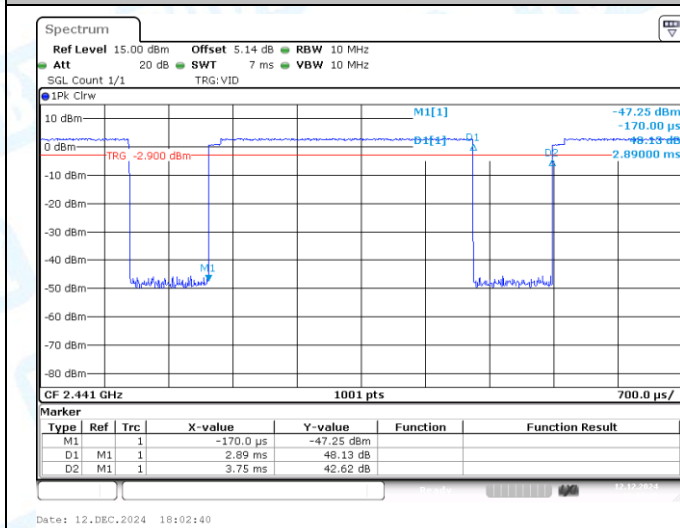
NTVN-DH5-Ant1-2402



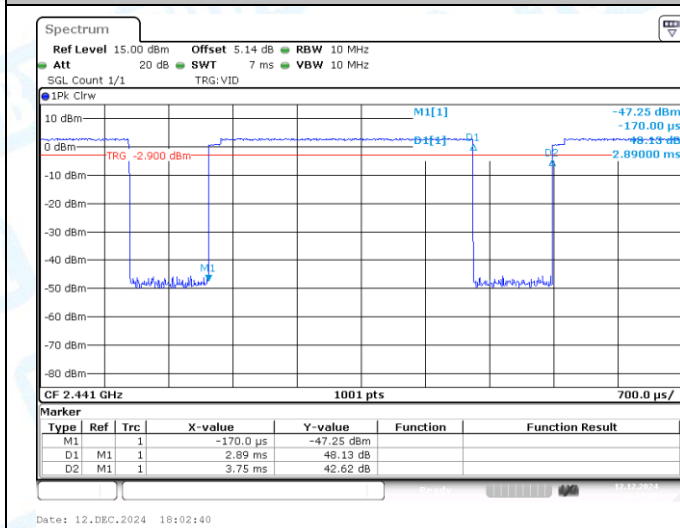
NTVN-DH5-Ant1-2441



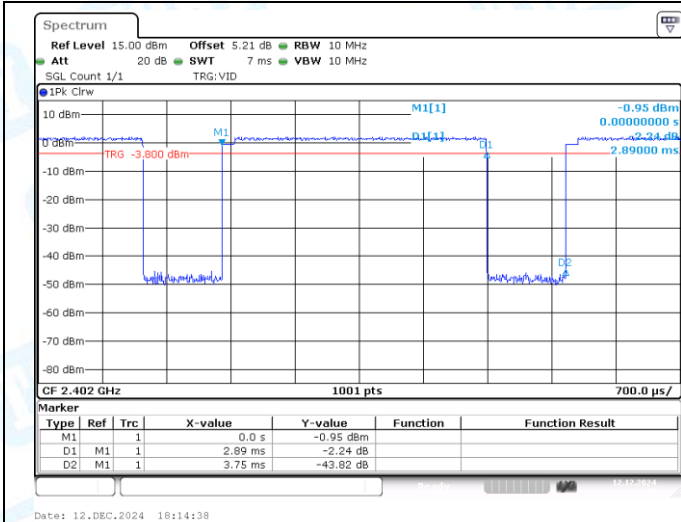
NTVN-DH5-Ant1-2480



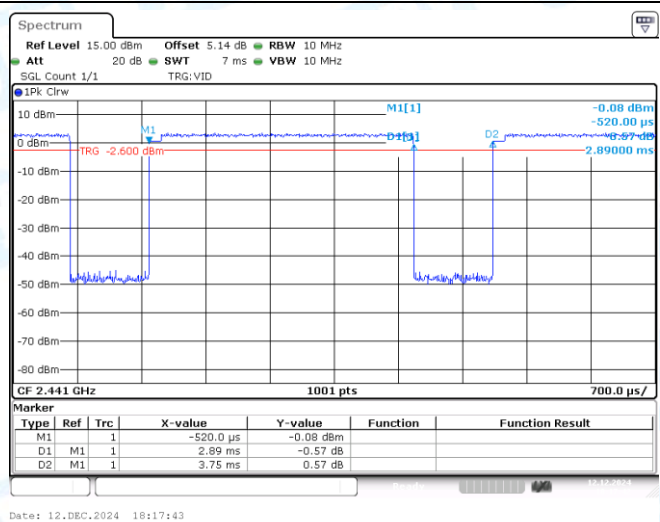
NTVN-2DH5-Ant1-2441



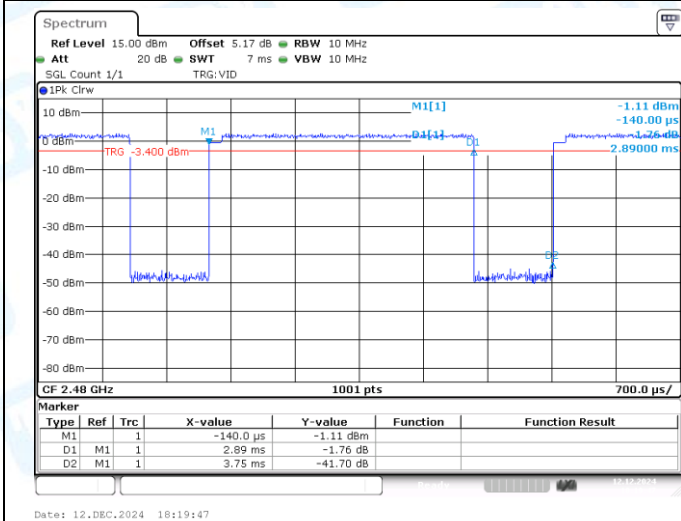
NTVN-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

10: Emissions in Restricted Bands

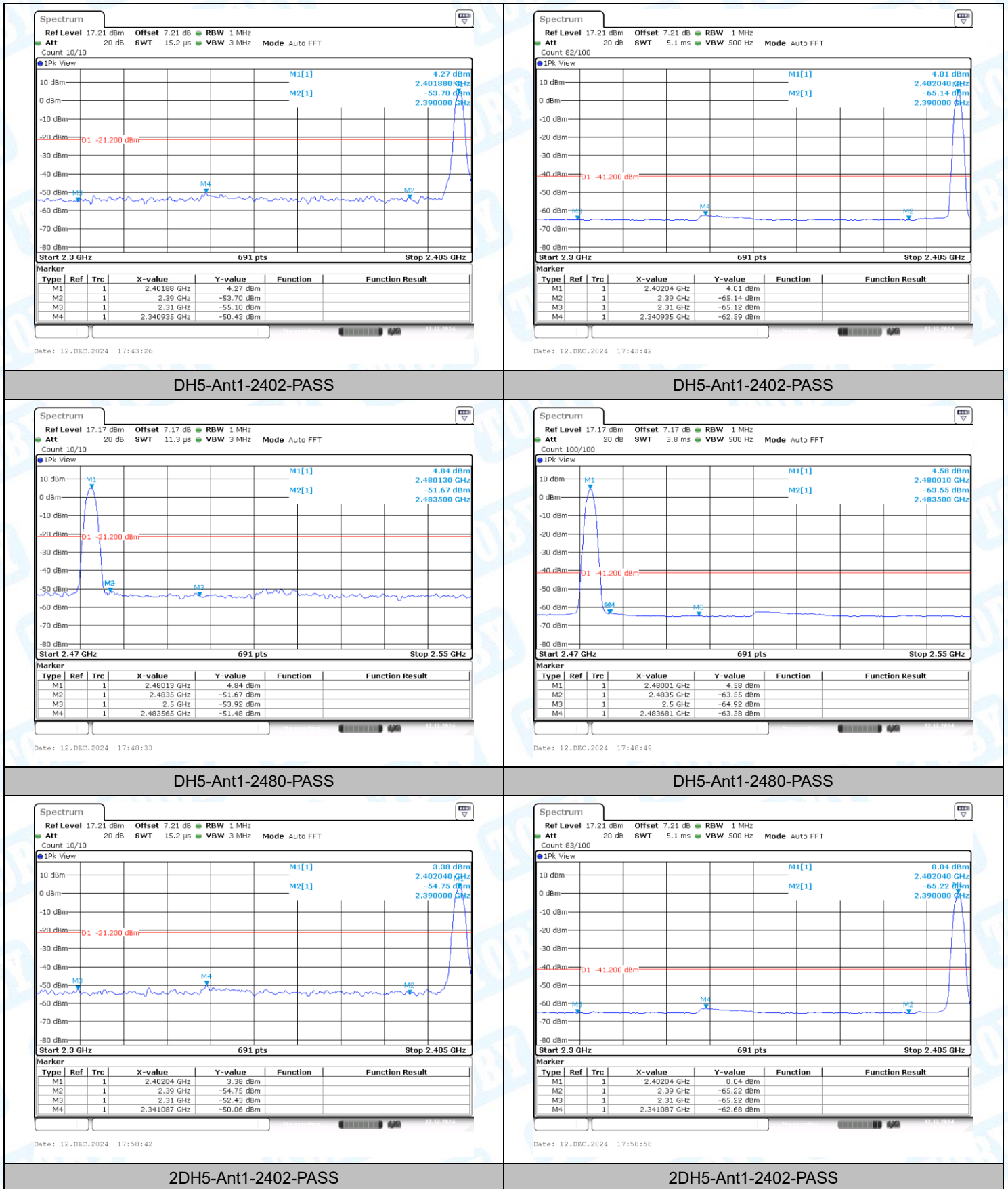
10.1 Test Result

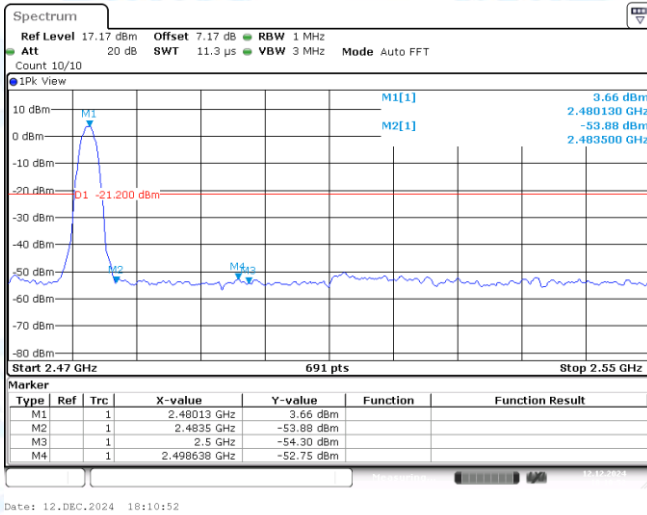
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-53.7	≤-21.20	41.50	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-55.1	≤-21.20	40.10	≤74	PASS
DH5	Ant1	Low	2402	Peak	2340.935	-50.43	≤-21.20	44.77	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-65.14	≤-41.20	30.06	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-65.12	≤-41.20	30.08	≤54	PASS
DH5	Ant1	Low	2402	AV	2340.935	-62.59	≤-41.20	32.61	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-51.67	≤-21.20	43.53	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-53.92	≤-21.20	41.28	≤74	PASS
DH5	Ant1	High	2480	Peak	2483.565	-51.48	≤-21.20	43.72	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-63.55	≤-41.20	31.65	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-64.92	≤-41.20	30.28	≤54	PASS
DH5	Ant1	High	2480	AV	2483.681	-63.38	≤-41.20	31.82	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-54.75	≤-21.20	40.45	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-52.43	≤-21.20	42.77	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2341.087	-50.06	≤-21.20	45.14	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-65.22	≤-41.20	29.98	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-65.22	≤-41.20	29.98	≤54	PASS
2DH5	Ant1	Low	2402	AV	2341.087	-62.68	≤-41.20	32.52	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-53.88	≤-21.20	41.32	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-54.3	≤-21.20	40.90	≤74	PASS
2DH5	Ant1	High	2480	Peak	2498.638	-52.75	≤-21.20	42.45	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-63.79	≤-41.20	31.41	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-64.94	≤-41.20	30.26	≤54	PASS
2DH5	Ant1	High	2480	AV	2483.565	-63.83	≤-41.20	31.37	≤54	PASS
3DH5	Ant1	Low	2402	Peak	2390.000	-53.83	≤-21.20	41.37	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-54.04	≤-21.20	41.16	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2340.478	-50.49	≤-21.20	44.71	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-65.3	≤-41.20	29.90	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-64.99	≤-41.20	30.21	≤54	PASS
3DH5	Ant1	Low	2402	AV	2340.022	-62.69	≤-41.20	32.51	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-53.89	≤-21.20	41.31	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-54.69	≤-21.20	40.51	≤74	PASS
3DH5	Ant1	High	2480	Peak	2483.913	-52.81	≤-21.20	42.39	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-63.78	≤-41.20	31.42	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-64.93	≤-41.20	30.27	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.565	-63.79	≤-41.20	31.41	≤54	PASS

Note:

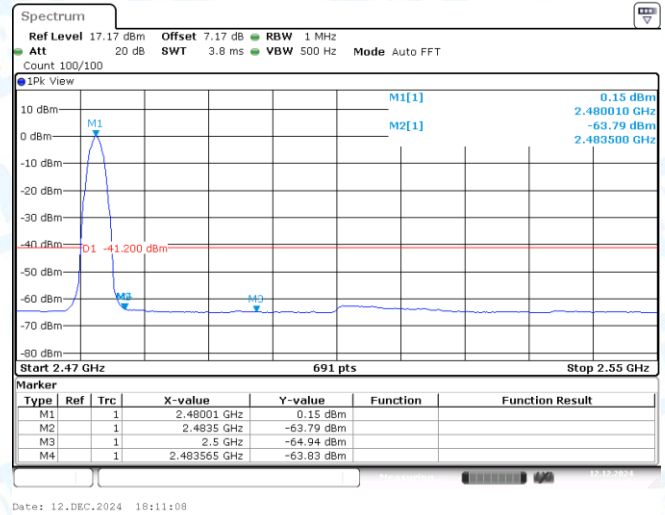
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

10.2 Test Graphs

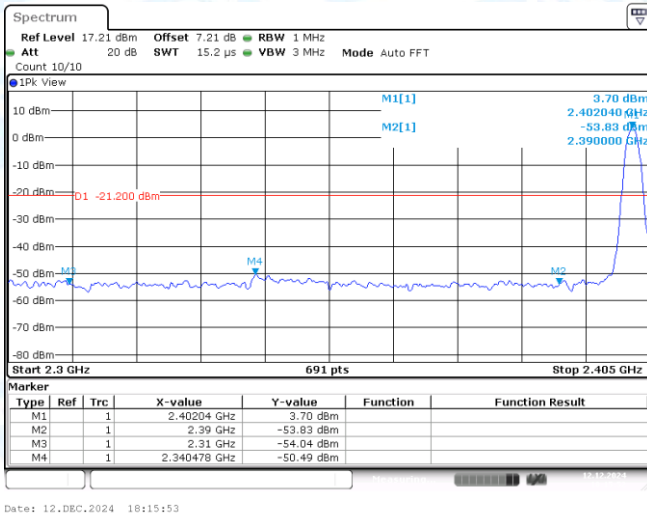




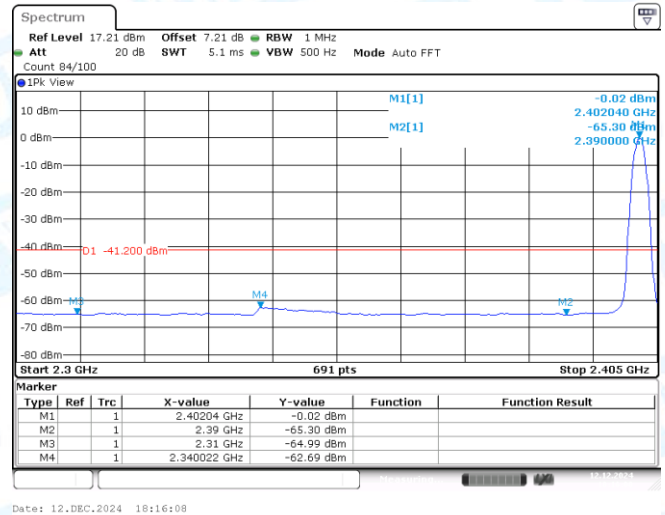
2DH5-Ant1-2480-PASS



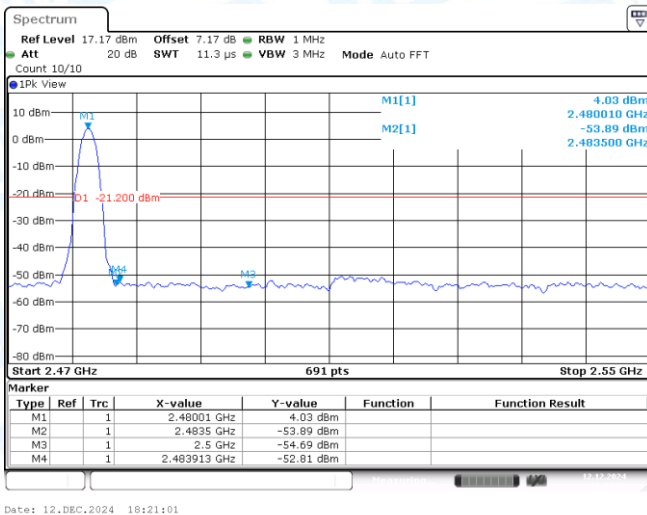
2DH5-Ant1-2480-PASS



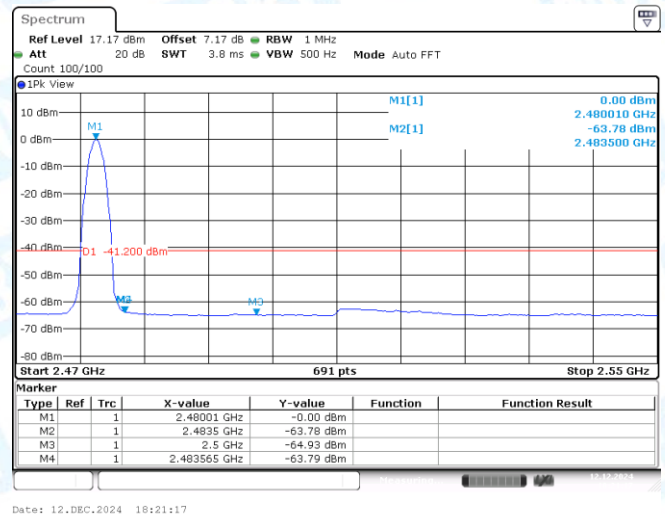
3DH5-Ant1-2402-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-2480-PASS

-----END OF THE REPORT-----