

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

General Description of EUT	
EUT Name:	Mobile phone
Model:	C8
Sample ID:	HC-C-202505-0225-01-03#
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Rick Chen
Note: For a more detailed features description, please refer to the report TBR-C-202505-0225-1	

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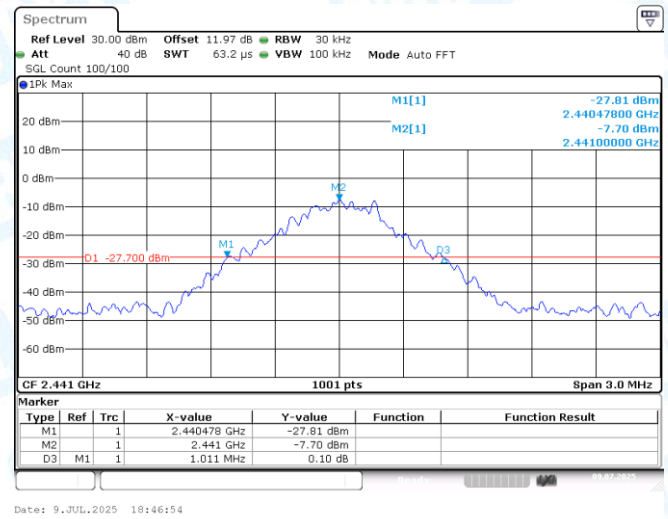
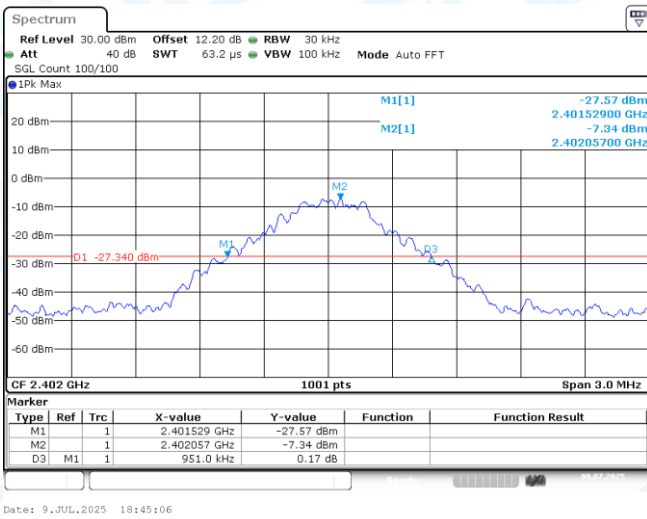
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1: 20dB Emission Bandwidth

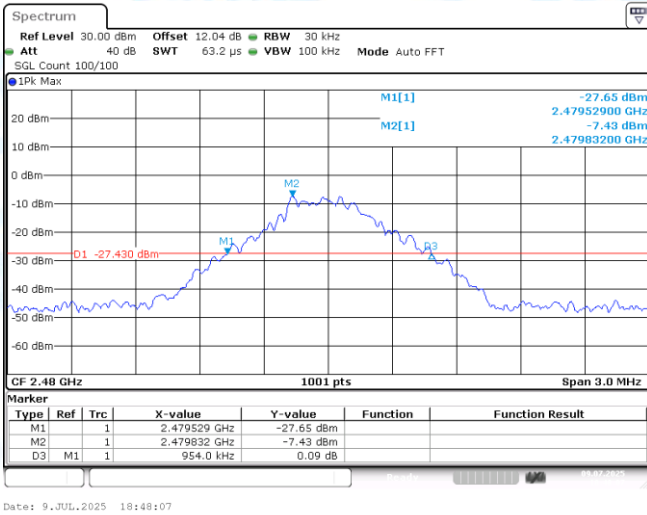
1.1 Test Result

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	1.01	2440.48	2441.49	---	---
DH5	Ant1	2480	0.95	2479.53	2480.48	---	---
2DH5	Ant1	2402	1.34	2401.33	2402.67	---	---
2DH5	Ant1	2441	1.33	2440.33	2441.66	---	---
2DH5	Ant1	2480	1.29	2479.36	2480.65	---	---
3DH5	Ant1	2402	1.31	2401.34	2402.66	---	---
3DH5	Ant1	2441	1.28	2440.36	2441.64	---	---
3DH5	Ant1	2480	1.34	2479.33	2480.66	---	---

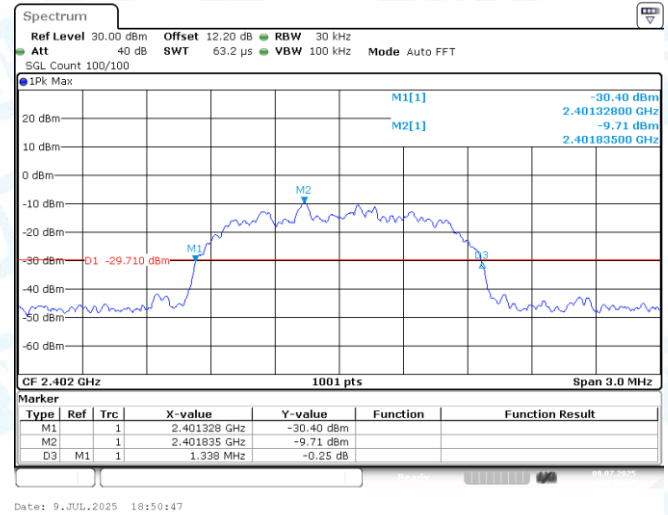
1.2 Test Graphs



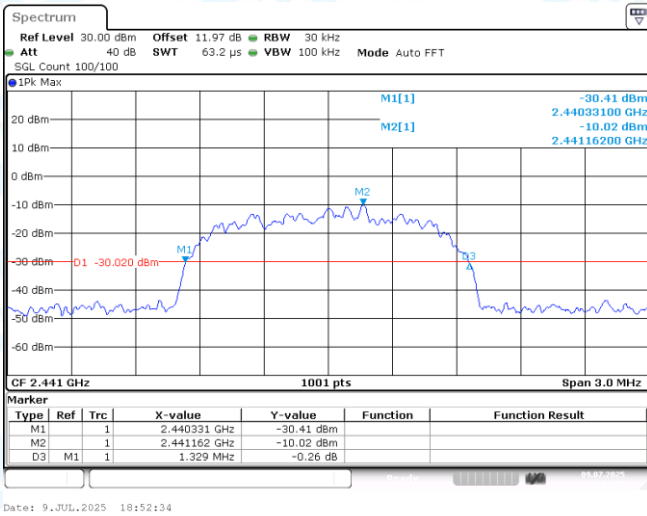
DH5-Ant1-2402



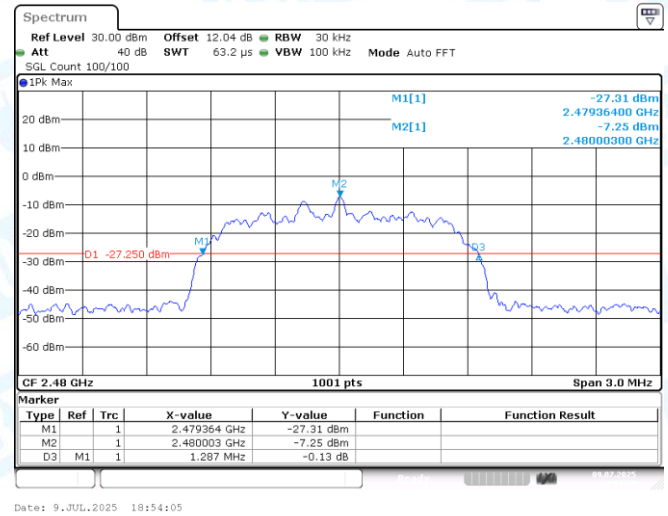
DH5-Ant1-2441



DH5-Ant1-2480

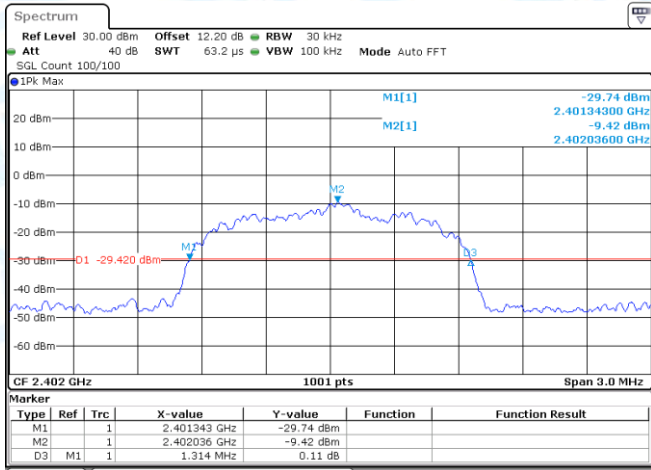


2DH5-Ant1-2402



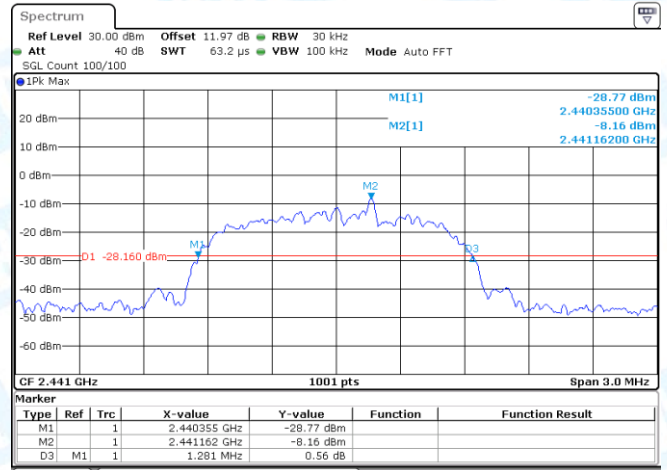
2DH5-Ant1-2441

2DH5-Ant1-2480



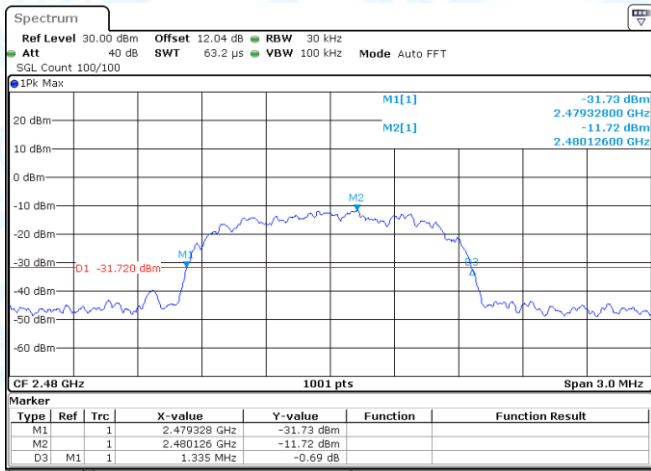
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3DH5-Ant1-2402



Date: 9.JUL.2025 18:59:42

3DH5-Ant1-2441



Date: 9.JUL.2025 19:01:12

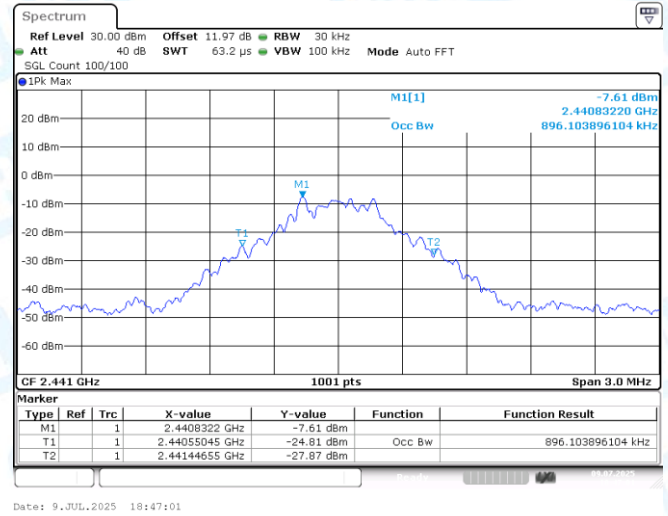
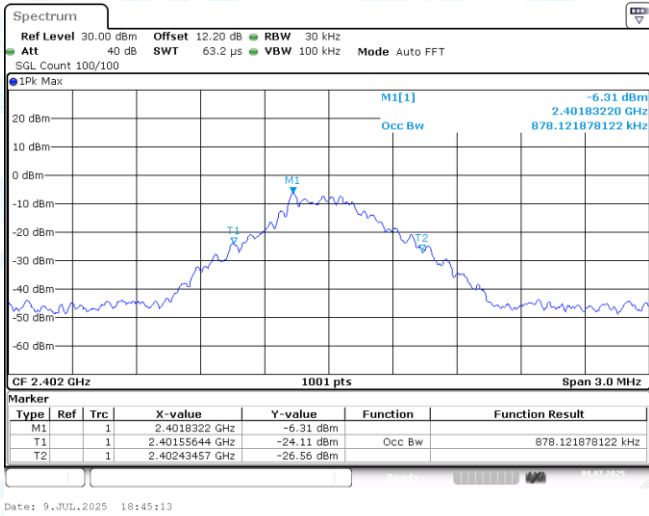
3DH5-Ant1-2480

2: Occupied Channel Bandwidth

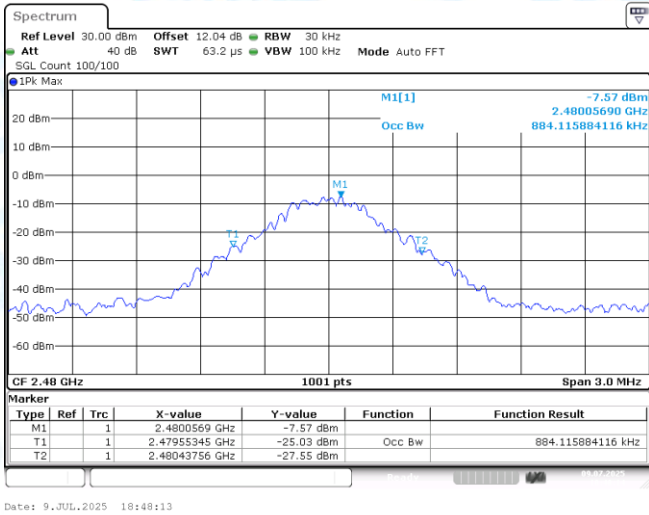
2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87812	2401.5564	2402.4346	---	---
DH5	Ant1	2441	0.89610	2440.5504	2441.4466	---	---
DH5	Ant1	2480	0.88412	2479.5534	2480.4376	---	---
2DH5	Ant1	2402	1.1988	2401.4036	2402.6024	---	---
2DH5	Ant1	2441	1.1868	2440.4036	2441.5904	---	---
2DH5	Ant1	2480	1.2078	2479.3976	2480.6054	---	---
3DH5	Ant1	2402	1.2018	2401.3946	2402.5964	---	---
3DH5	Ant1	2441	1.2078	2440.3916	2441.5994	---	---
3DH5	Ant1	2480	1.2108	2479.3886	2480.5994	---	---

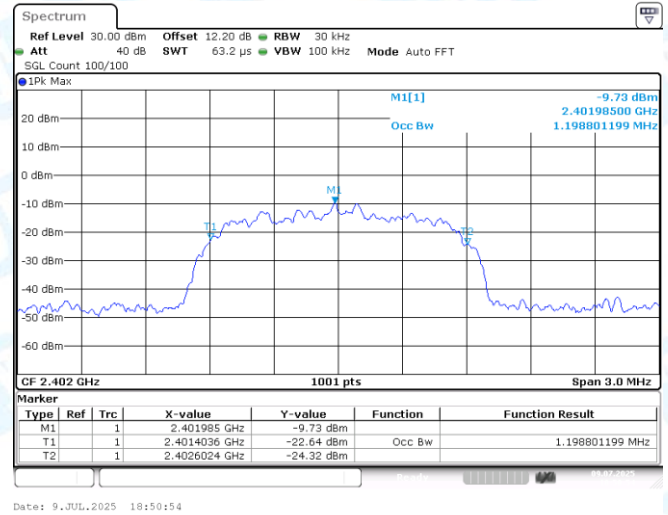
2.2 Test Graphs



DH5-Ant1-2402

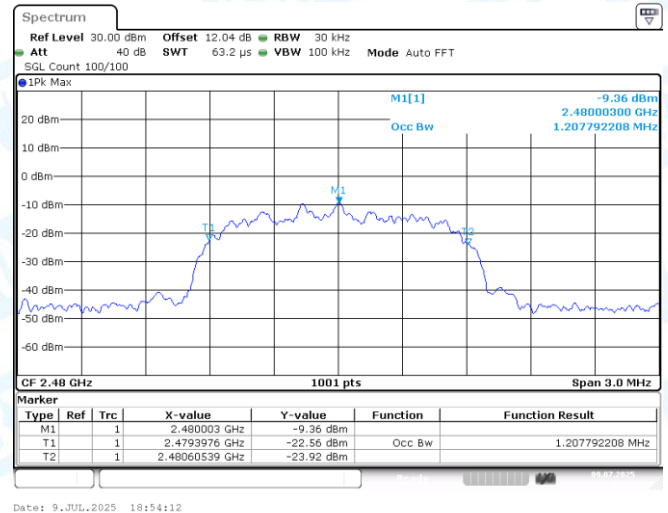
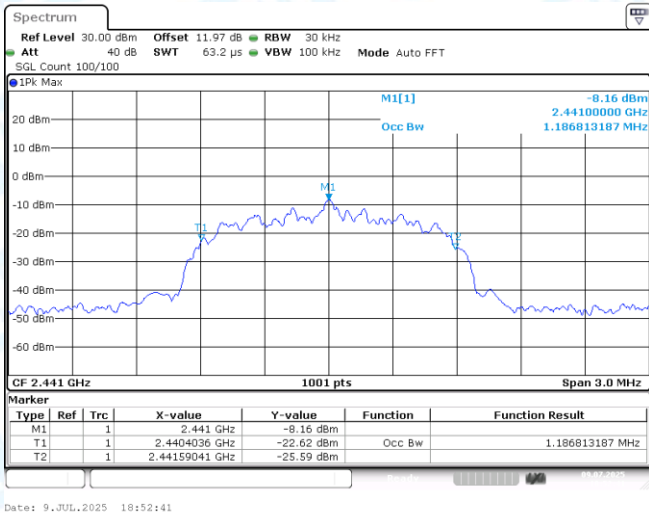


DH5-Ant1-2441



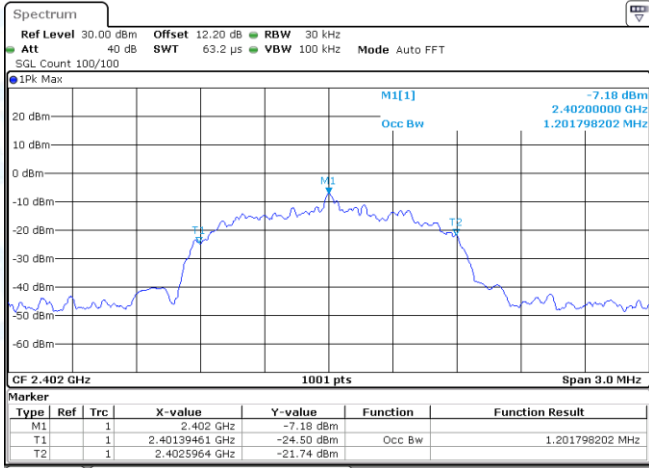
DH5-Ant1-2480

2DH5-Ant1-2402



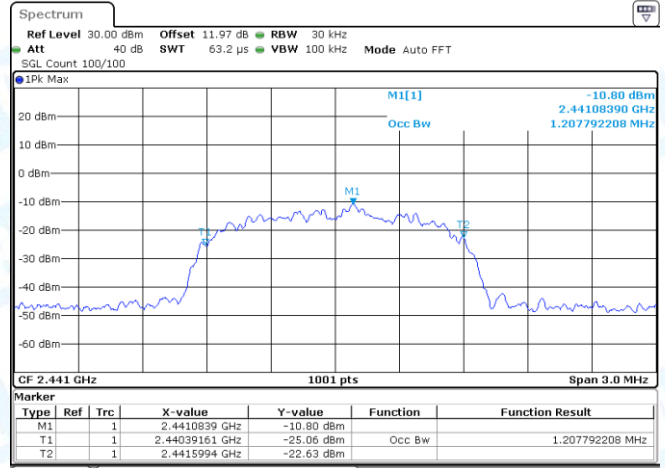
2DH5-Ant1-2441

2DH5-Ant1-2480



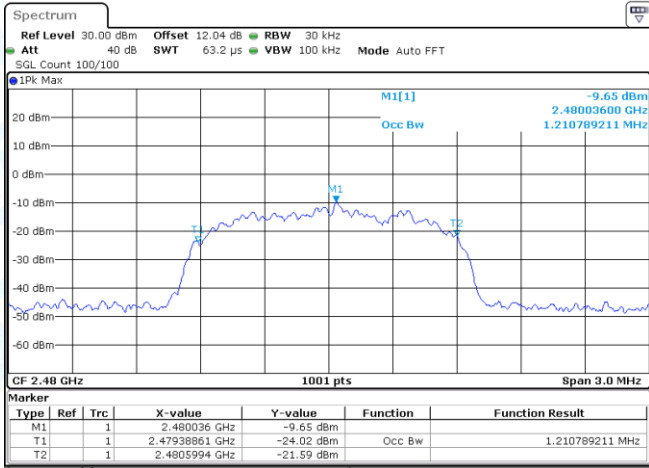
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3DH5-Ant1-2402



Date: 9.JUL.2025 18:59:49

3DH5-Ant1-2441



Date: 9.JUL.2025 19:01:18

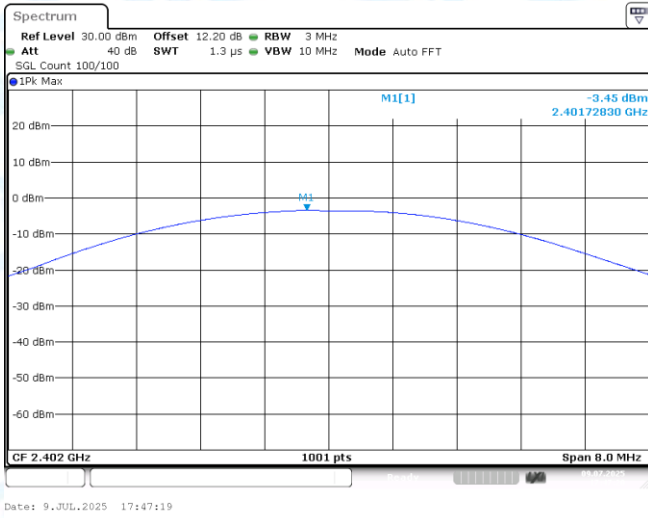
3DH5-Ant1-2480

3: Maximum conducted output power

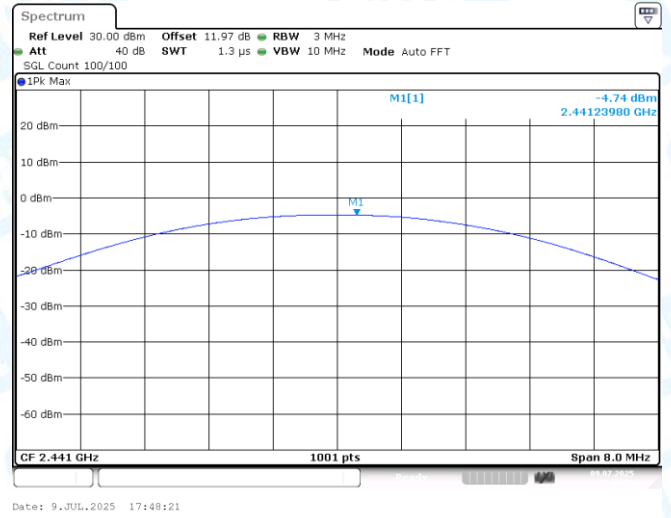
3.1 Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.45	≤20.97	PASS
DH5	Ant1	2441	-4.74	≤20.97	PASS
DH5	Ant1	2480	-3.96	≤20.97	PASS
2DH5	Ant1	2402	-3.48	≤20.97	PASS
2DH5	Ant1	2441	-4.22	≤20.97	PASS
2DH5	Ant1	2480	-3.11	≤20.97	PASS
3DH5	Ant1	2402	-2.88	≤20.97	PASS
3DH5	Ant1	2441	-3.79	≤20.97	PASS
3DH5	Ant1	2480	-2.75	≤20.97	PASS

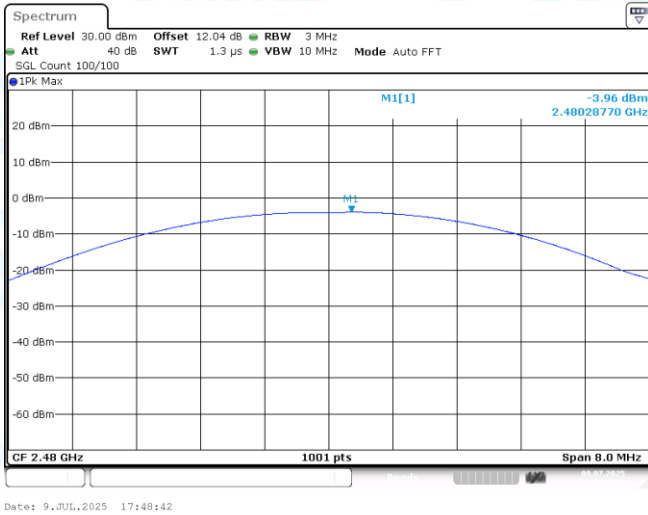
3.2 Test Graphs



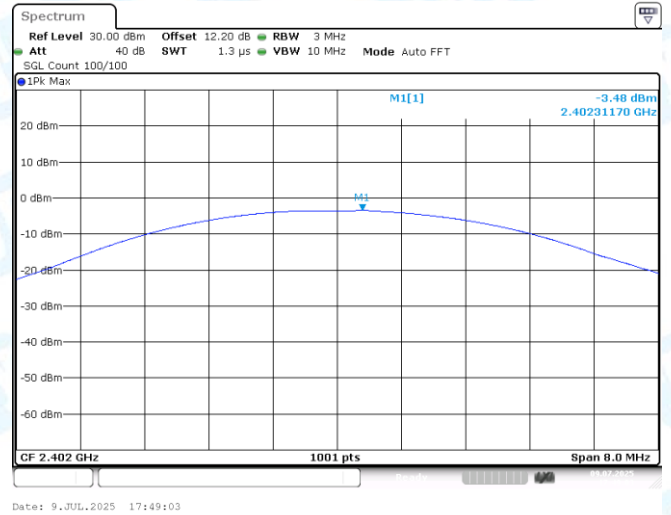
DH5-Ant1-2402-PASS



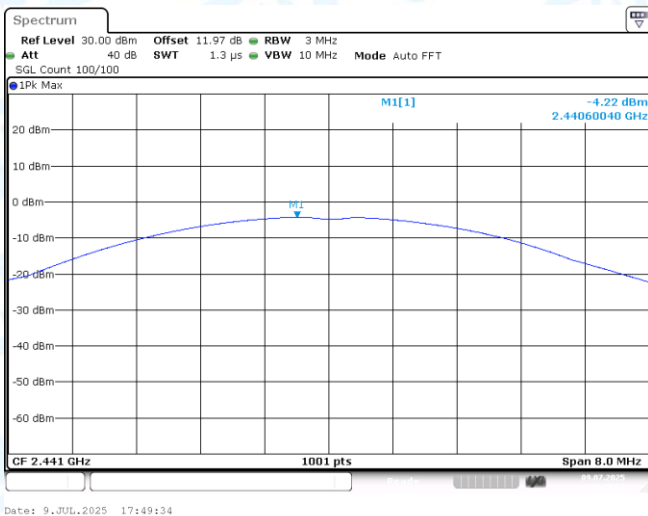
DH5-Ant1-2441-PASS



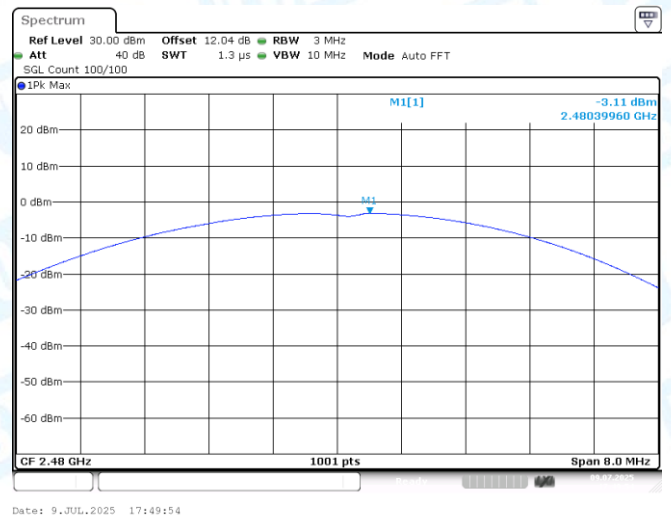
DH5-Ant1-2480-PASS



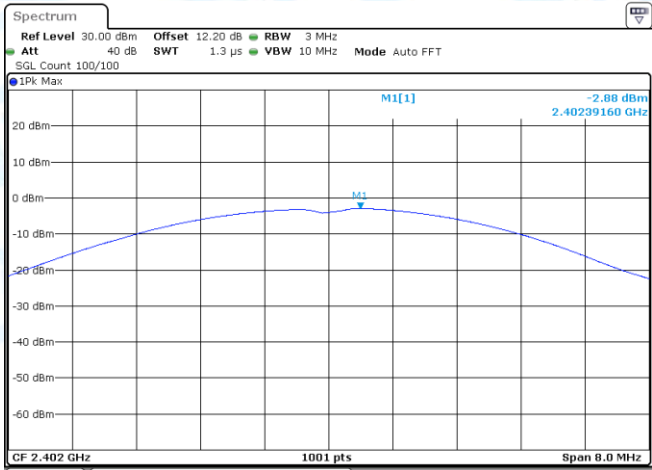
2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

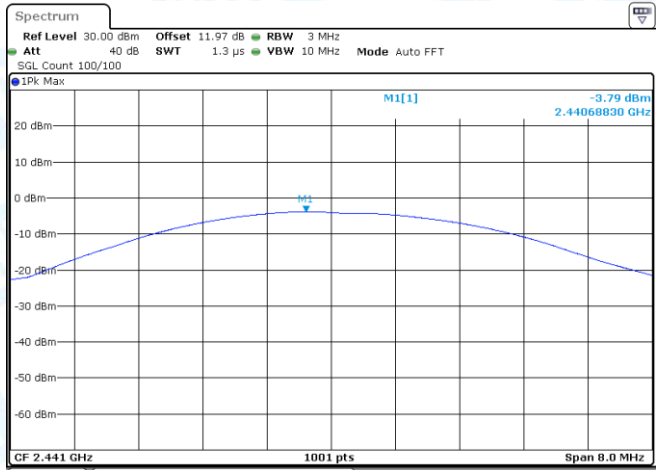


2DH5-Ant1-2480-PASS



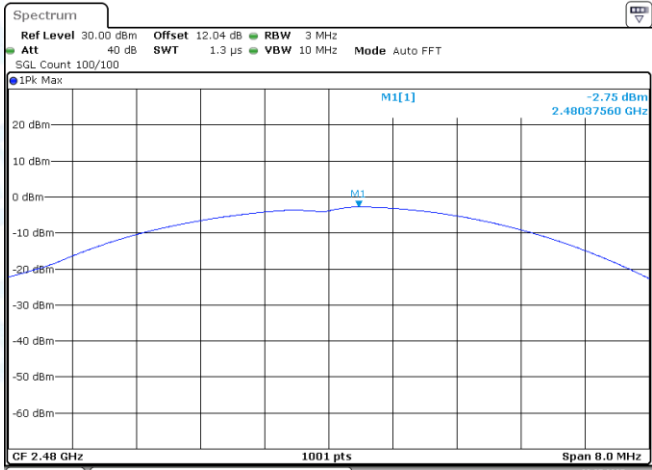
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3DH5-Ant1-2402-PASS



Date: 9.JUL.2025 17:50:40

3DH5-Ant1-2441-PASS



Date: 9.JUL.2025 17:51:01

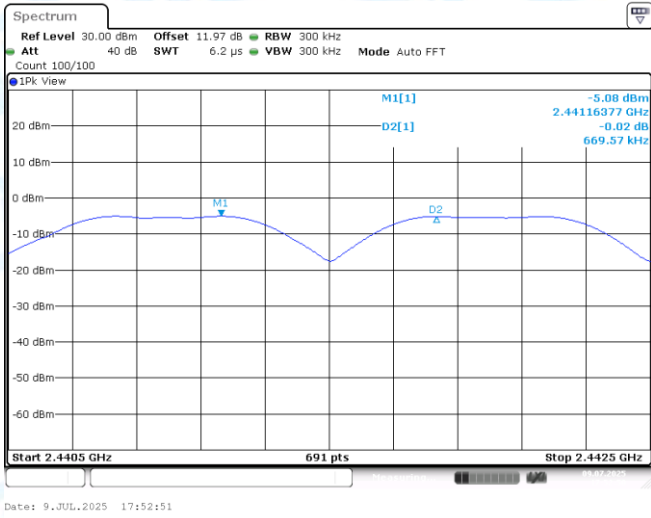
3DH5-Ant1-2480-PASS

4: Carrier frequency separation

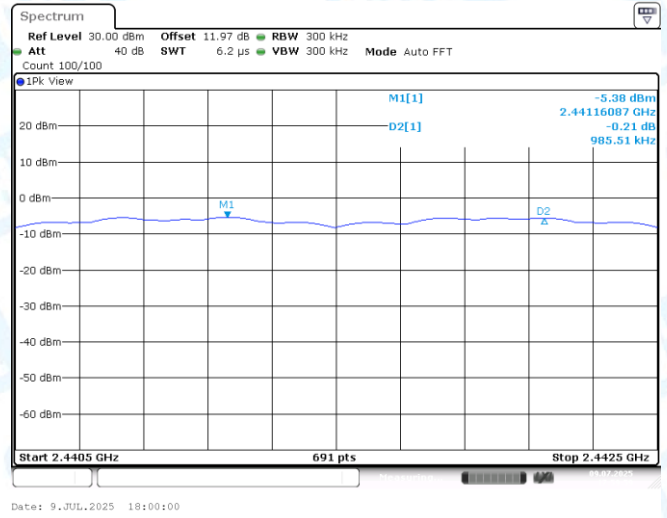
4.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.67	≥ 0.627	PASS
2DH5	Ant1	Hop	0.986	≥ 0.860	PASS
3DH5	Ant1	Hop	1.006	≥ 0.880	PASS

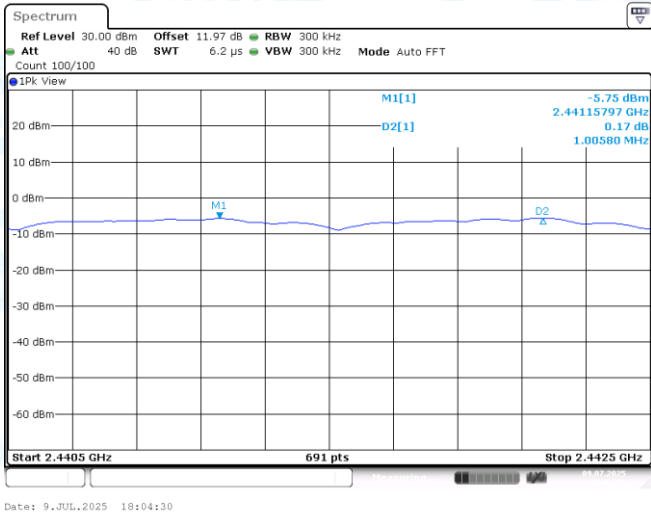
4.2 Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



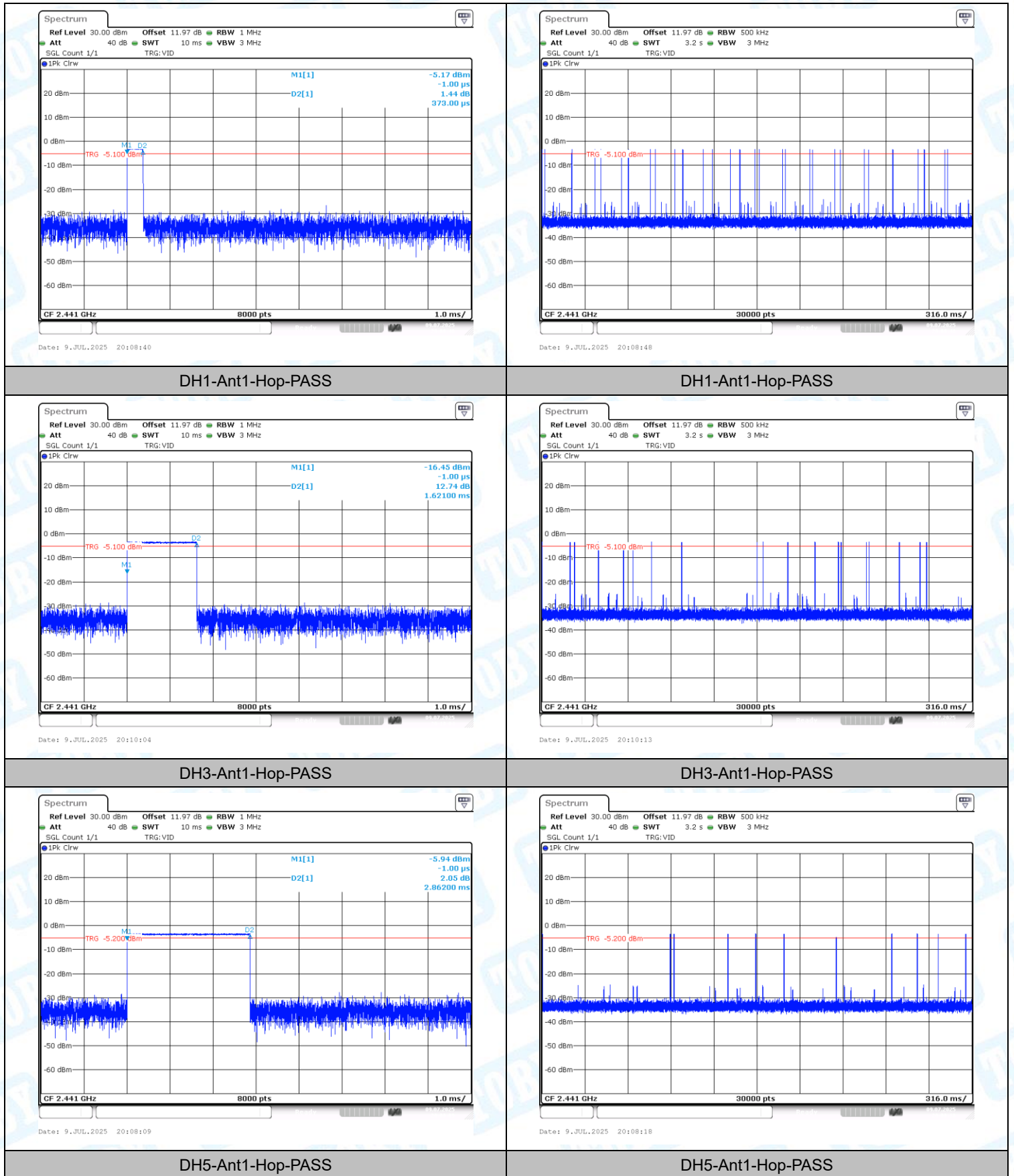
3DH5-Ant1-Hop-PASS

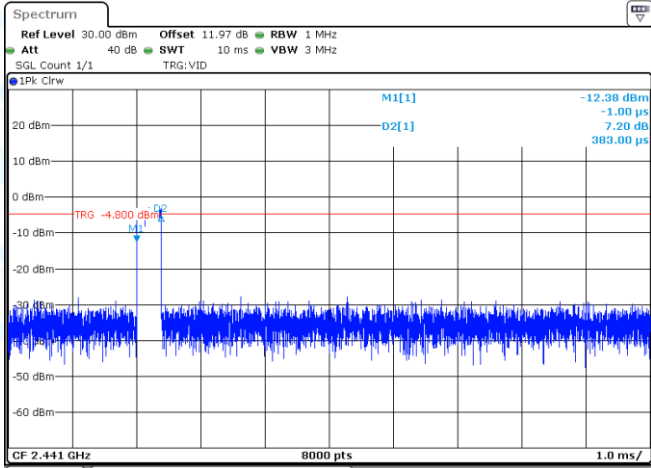
5: Time of occupancy

5.1 Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.373	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.621	190	0.308	≤0.4	PASS
DH5	Ant1	Hop	2.862	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.383	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.626	190	0.309	≤0.4	PASS
2DH5	Ant1	Hop	2.867	90	0.258	≤0.4	PASS
3DH1	Ant1	Hop	0.393	330	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.635	140	0.229	≤0.4	PASS
3DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS

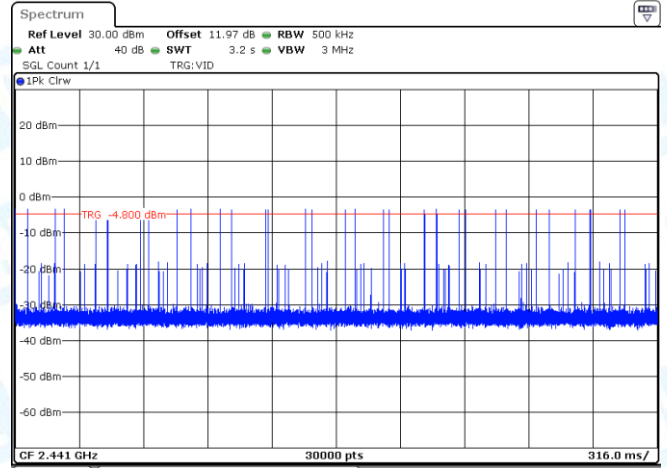
5.2 Test Graphs





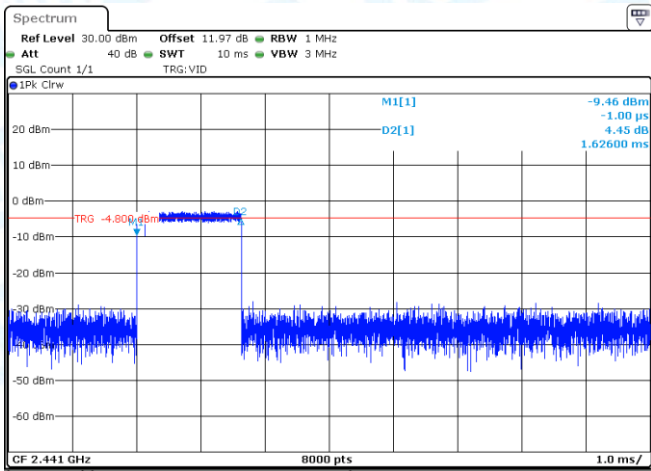
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2DH1-Ant1-Hop-PASS



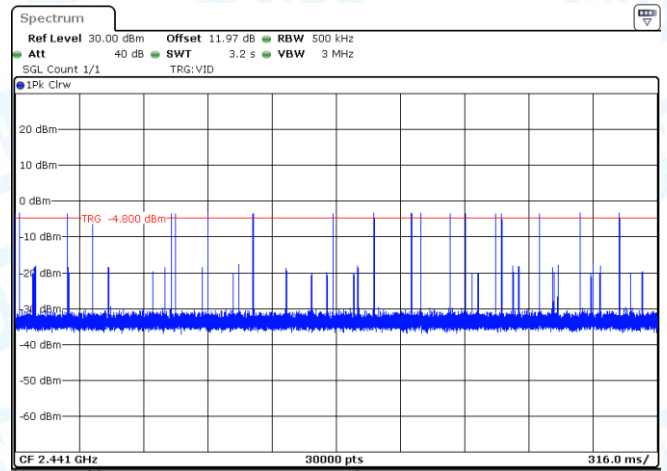
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2DH1-Ant1-Hop-PASS



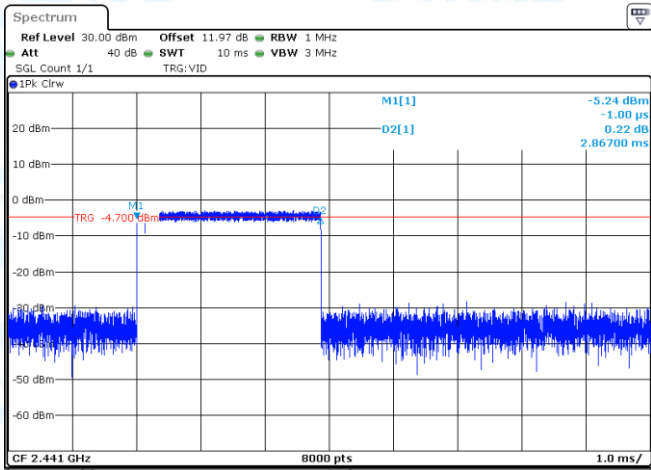
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2DH3-Ant1-Hop-PASS



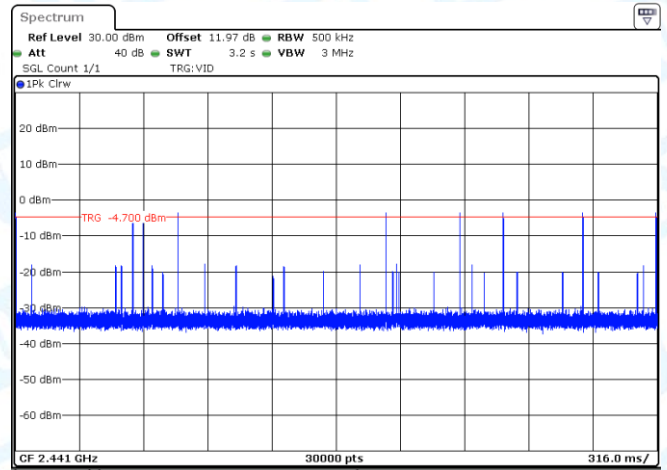
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2DH3-Ant1-Hop-PASS



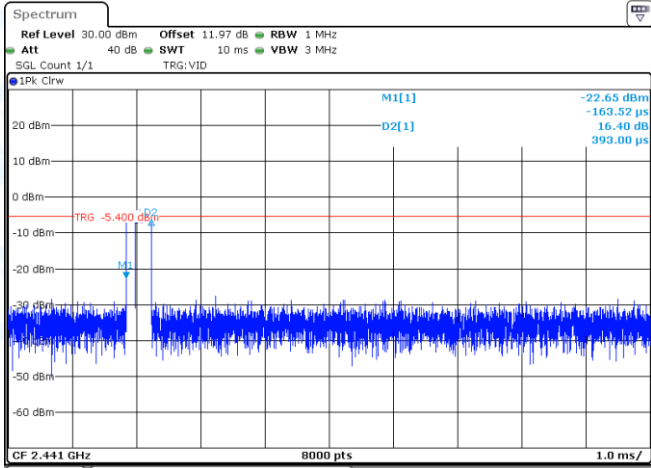
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2DH5-Ant1-Hop-PASS



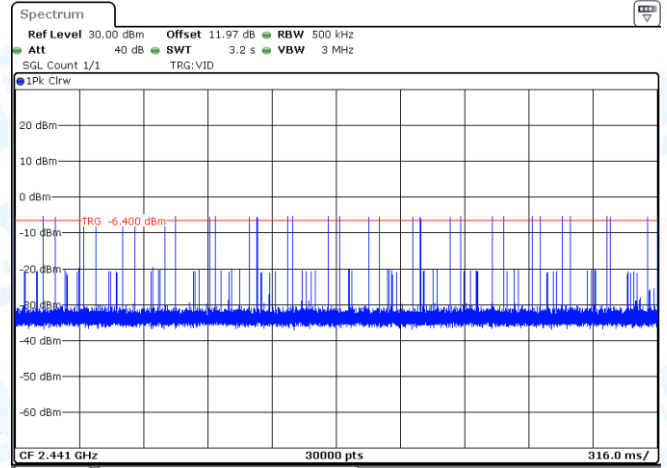
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2DH5-Ant1-Hop-PASS



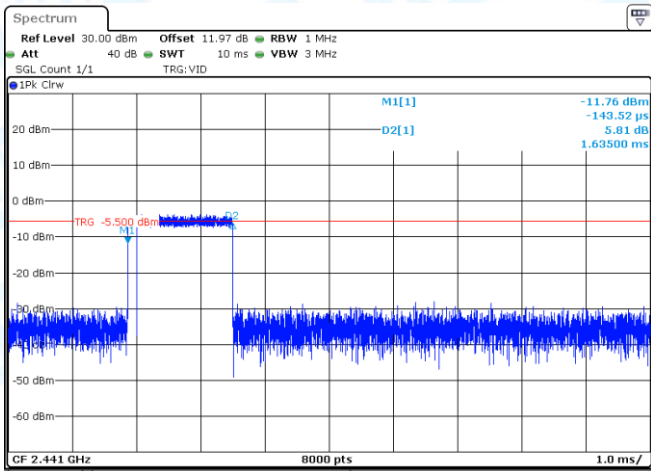
Date: 9.JUL.2025 18:07:38

3DH1-Ant1-Hop-PASS



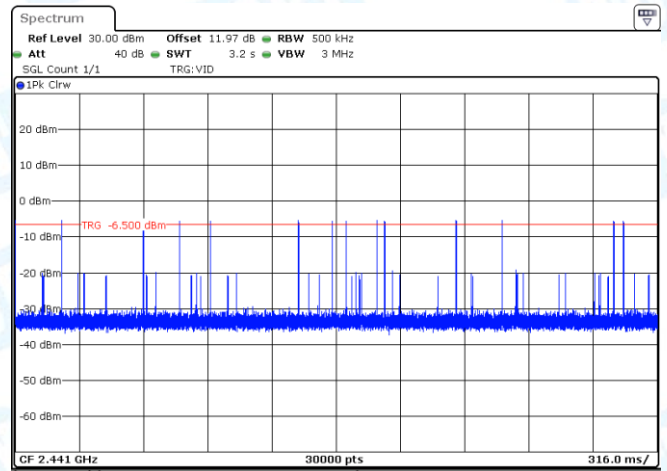
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3DH1-Ant1-Hop-PASS



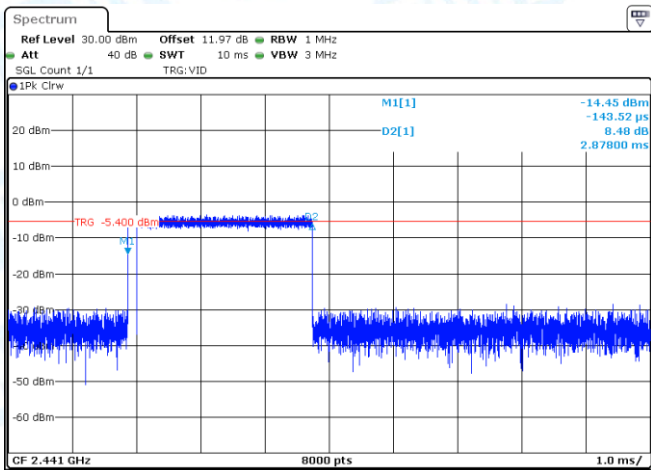
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3DH3-Ant1-Hop-PASS



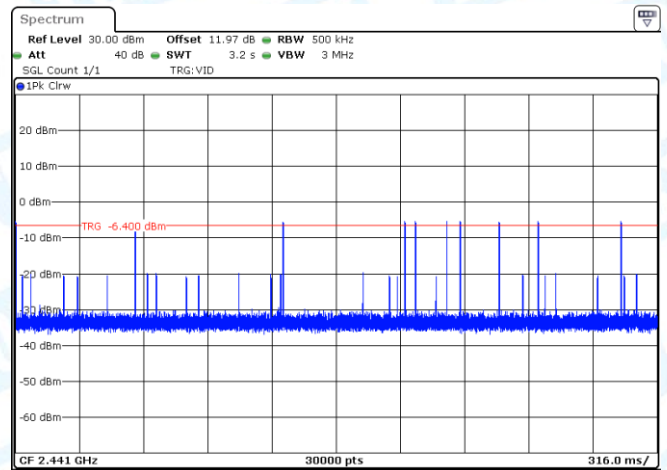
Date: 9.JUL.2025 18:09:59

3DH3-Ant1-Hop-PASS



Date: 9.JUL.2025 18:40:12

3DH5-Ant1-Hop-PASS



Date: 9.JUL.2025 18:40:26

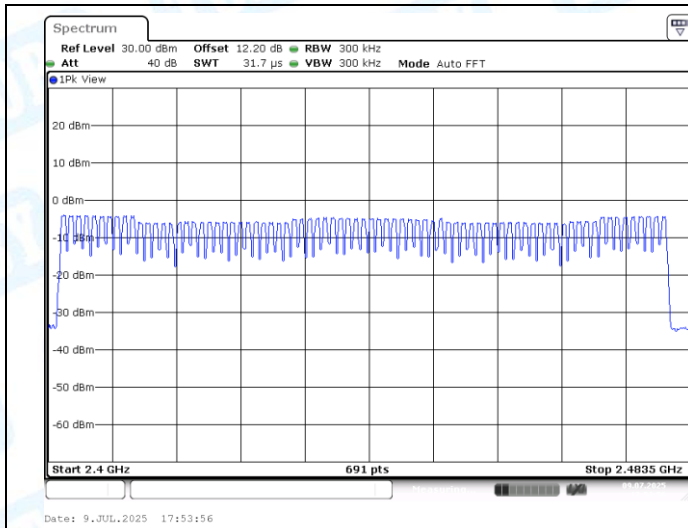
3DH5-Ant1-Hop-PASS

6: Number of hopping channels

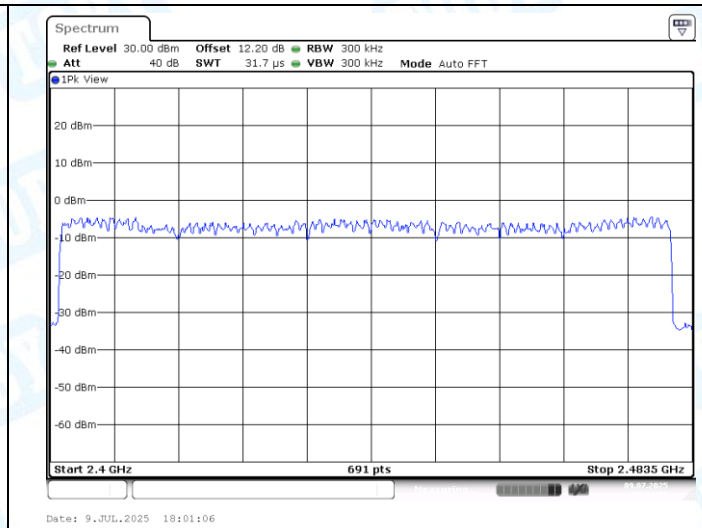
6.1 Test Result

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

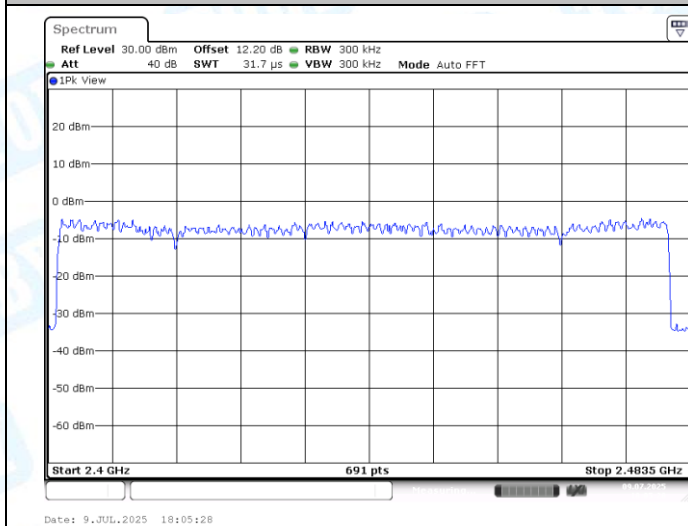
6.2 Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



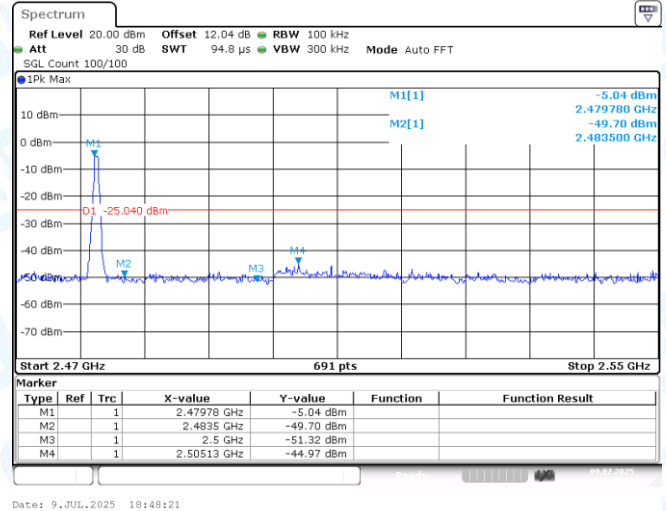
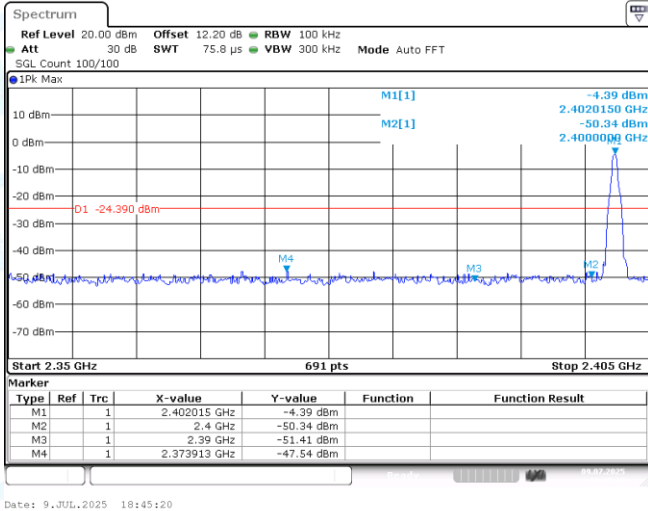
3DH5-Ant1-Hop-PASS

7: Band edge measurements

7.1 Test Result

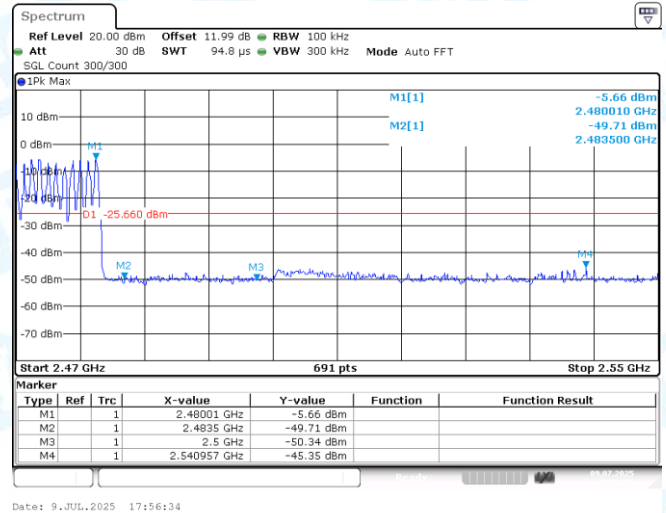
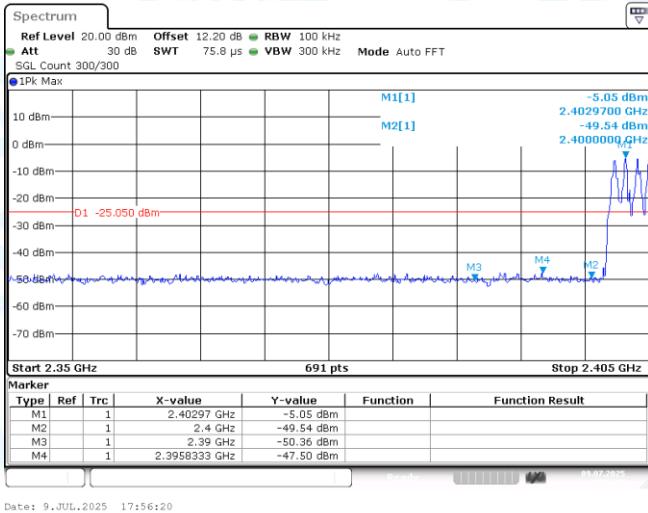
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.39	-47.54	≤-24.39	PASS
DH5	Ant1	High	2480	-5.04	-44.97	≤-25.04	PASS
DH5	Ant1	Low	Hop_2402	-5.05	-47.5	≤-25.05	PASS
DH5	Ant1	High	Hop_2480	-5.66	-45.35	≤-25.66	PASS
2DH5	Ant1	Low	2402	-6.33	-47.21	≤-26.33	PASS
2DH5	Ant1	High	2480	-5.33	-46.35	≤-25.33	PASS
2DH5	Ant1	Low	Hop_2402	-8.86	-47.04	≤-28.86	PASS
2DH5	Ant1	High	Hop_2480	-8.71	-45.99	≤-28.71	PASS
3DH5	Ant1	Low	2402	-4.90	-47.6	≤-24.9	PASS
3DH5	Ant1	High	2480	-5.44	-46.63	≤-25.44	PASS
3DH5	Ant1	Low	Hop_2402	-9.07	-47.31	≤-29.07	PASS
3DH5	Ant1	High	Hop_2480	-7.17	-45.79	≤-27.17	PASS

7.2 Test Graphs



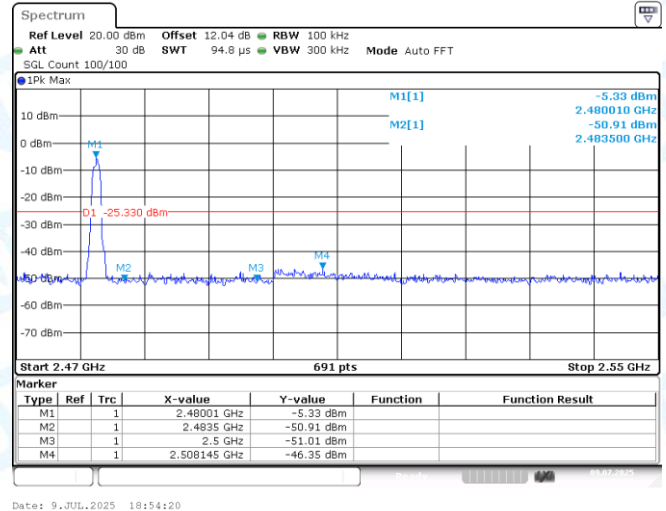
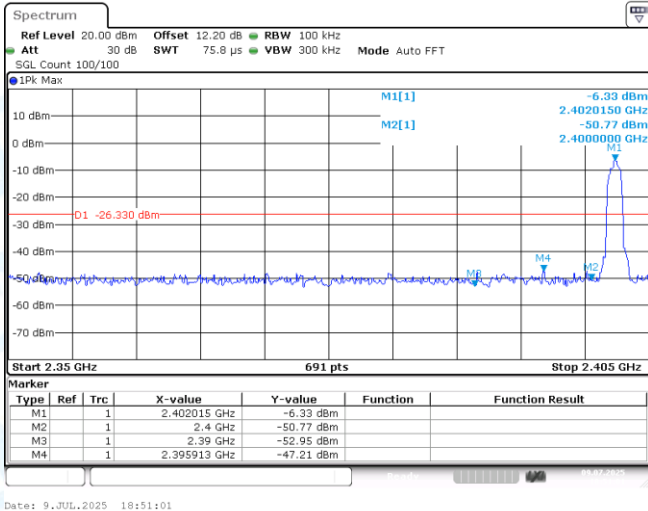
DH5-Ant1-2402-PASS

DH5-Ant1-2480-PASS



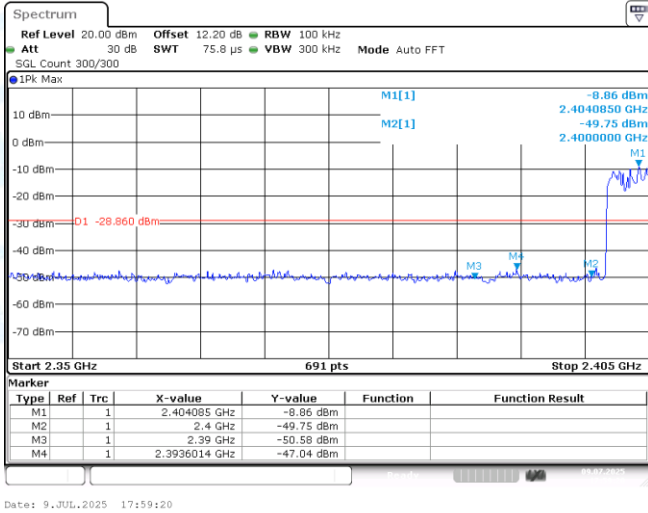
DH5-Ant1-Hop_2402-PASS

DH5-Ant1-Hop_2480-PASS

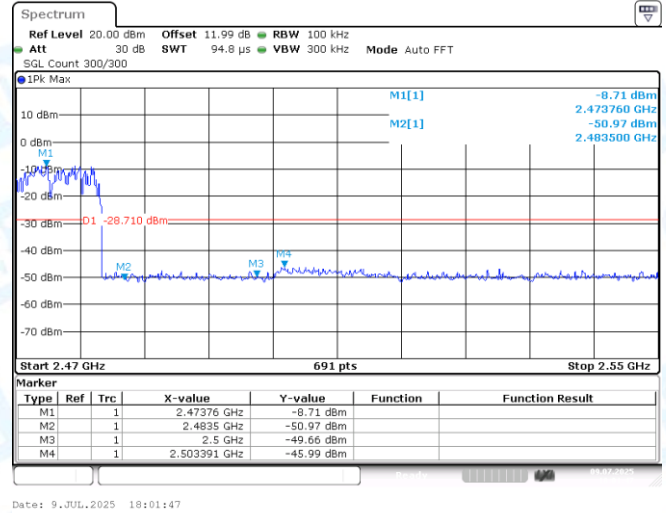


2DH5-Ant1-2402-PASS

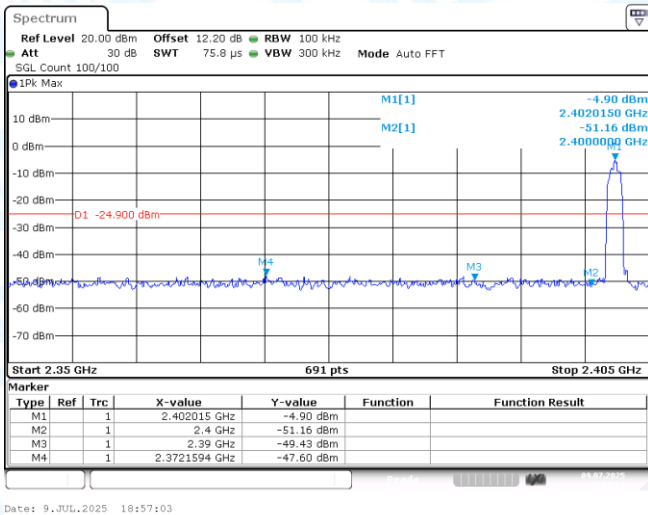
2DH5-Ant1-2480-PASS



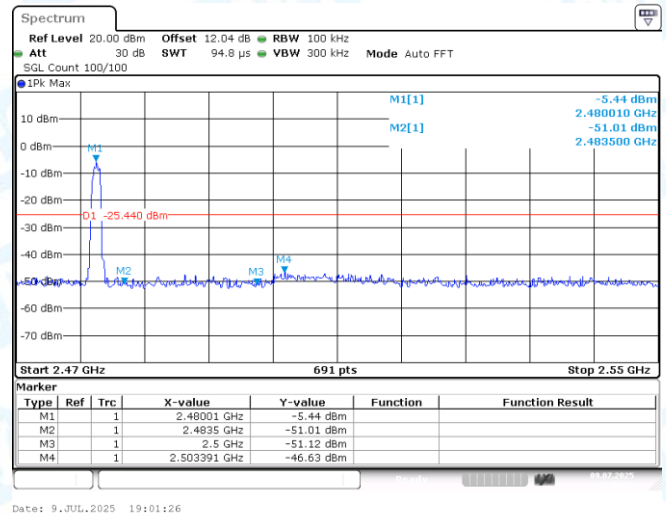
2DH5-Ant1-Hop_2402-PASS



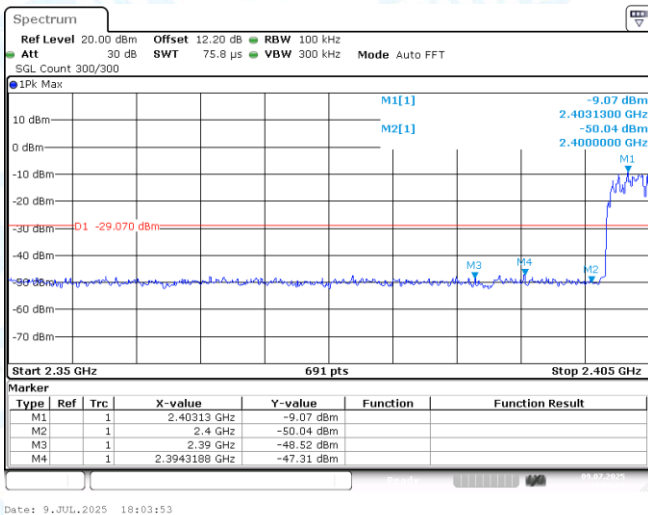
2DH5-Ant1-Hop_2480-PASS



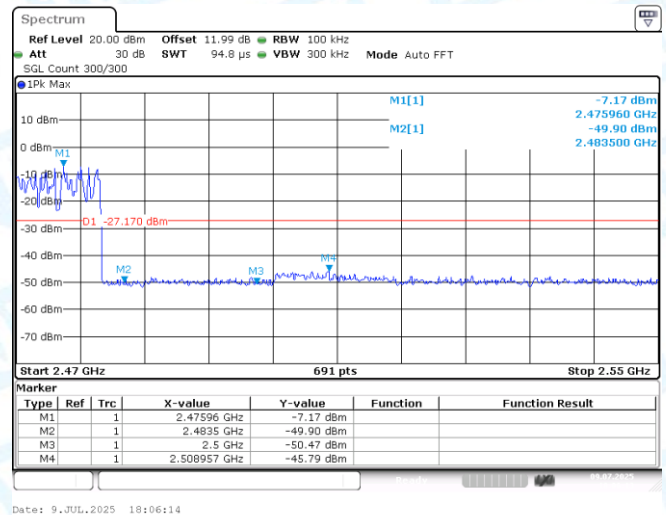
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



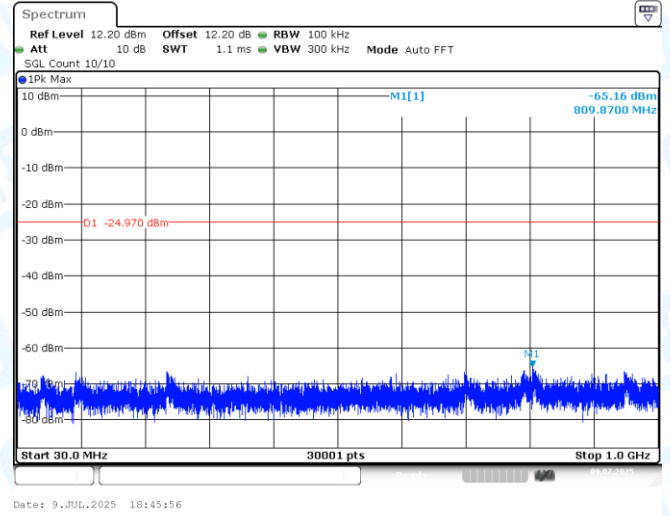
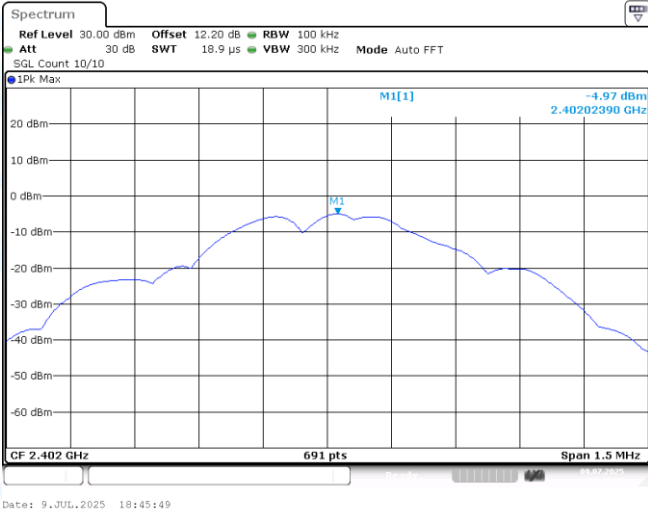
3DH5-Ant1-Hop_2480-PASS

8: Conducted Spurious Emission

8.1 Test Result

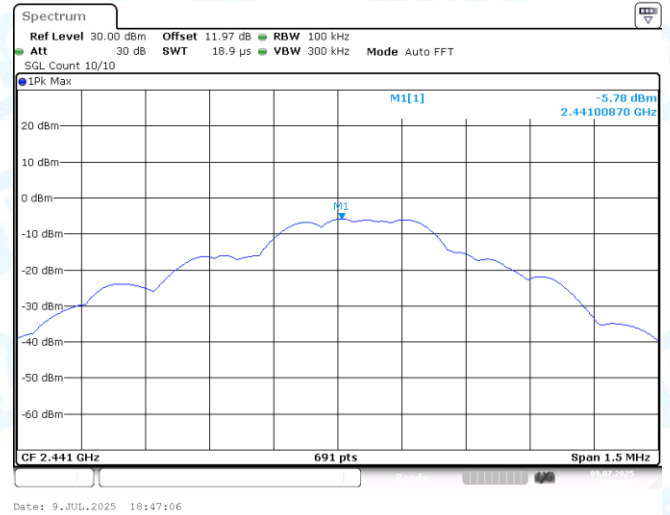
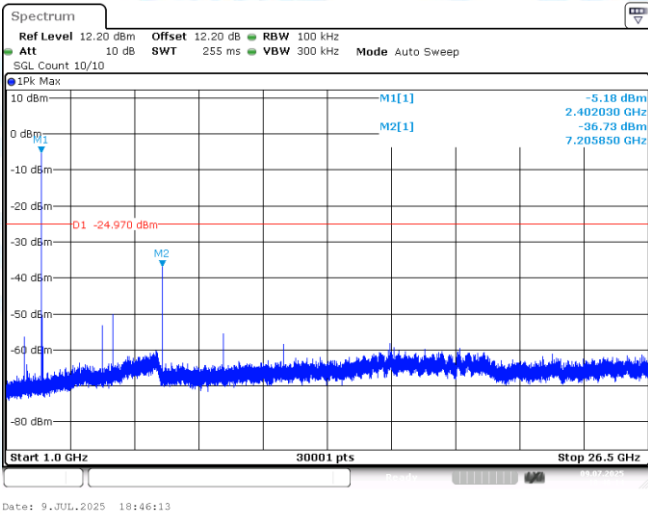
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-4.97	-4.97	---	PASS
DH5	Ant1	2402	30~1000	-4.97	-65.16	≤-24.97	PASS
DH5	Ant1	2402	1000~26500	-4.97	-36.73	≤-24.97	PASS
DH5	Ant1	2441	0~Reference	-5.78	-5.78	---	PASS
DH5	Ant1	2441	30~1000	-5.78	-65.75	≤-25.78	PASS
DH5	Ant1	2441	1000~26500	-5.78	-41.21	≤-25.78	PASS
DH5	Ant1	2480	0~Reference	-5.71	-5.71	---	PASS
DH5	Ant1	2480	30~1000	-5.71	-64.94	≤-25.71	PASS
DH5	Ant1	2480	1000~26500	-5.71	-42.74	≤-25.71	PASS
2DH5	Ant1	2402	0~Reference	-9.28	-9.28	---	PASS
2DH5	Ant1	2402	30~1000	-9.28	-65.52	≤-29.28	PASS
2DH5	Ant1	2402	1000~26500	-9.28	-36.15	≤-29.28	PASS
2DH5	Ant1	2441	0~Reference	-9.53	-9.53	---	PASS
2DH5	Ant1	2441	30~1000	-9.53	-65.58	≤-29.53	PASS
2DH5	Ant1	2441	1000~26500	-9.53	-43.41	≤-29.53	PASS
2DH5	Ant1	2480	0~Reference	-4.89	-4.89	---	PASS
2DH5	Ant1	2480	30~1000	-4.89	-65.33	≤-24.89	PASS
2DH5	Ant1	2480	1000~26500	-4.89	-45.27	≤-24.89	PASS
3DH5	Ant1	2402	0~Reference	-6.82	-6.82	---	PASS
3DH5	Ant1	2402	30~1000	-6.82	-65.03	≤-26.82	PASS
3DH5	Ant1	2402	1000~26500	-6.82	-39.04	≤-26.82	PASS
3DH5	Ant1	2441	0~Reference	-9.69	-9.69	---	PASS
3DH5	Ant1	2441	30~1000	-9.69	-64.84	≤-29.69	PASS
3DH5	Ant1	2441	1000~26500	-9.69	-43.63	≤-29.69	PASS
3DH5	Ant1	2480	0~Reference	-8.50	-8.50	---	PASS
3DH5	Ant1	2480	30~1000	-8.50	-65.13	≤-28.5	PASS
3DH5	Ant1	2480	1000~26500	-8.50	-42.5	≤-28.5	PASS

8.2 Test Graphs



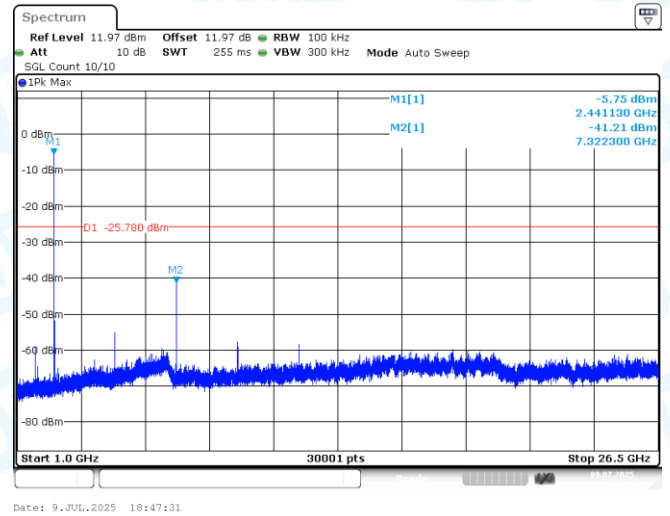
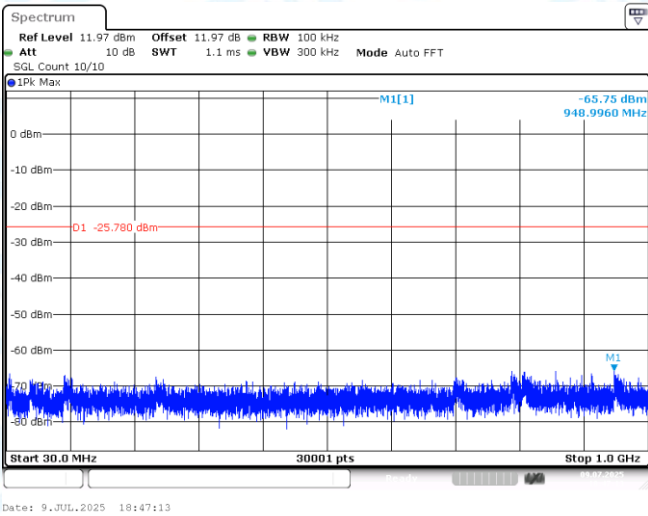
DH5-Ant1-2402-0~Reference-PASS

DH5-Ant1-2402-30~1000-PASS



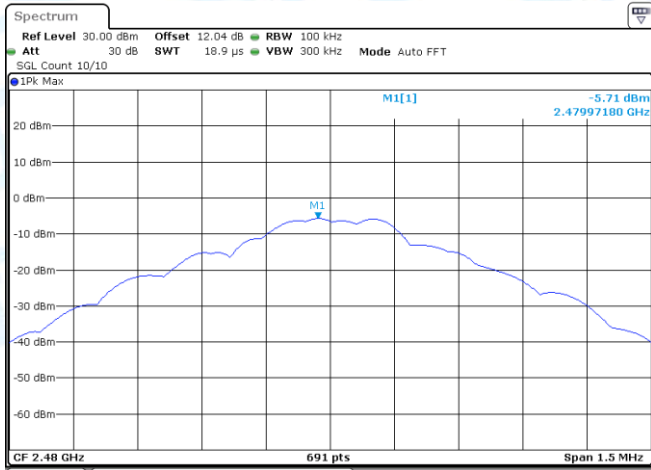
DH5-Ant1-2402-1000~26500-PASS

DH5-Ant1-2441-0~Reference-PASS



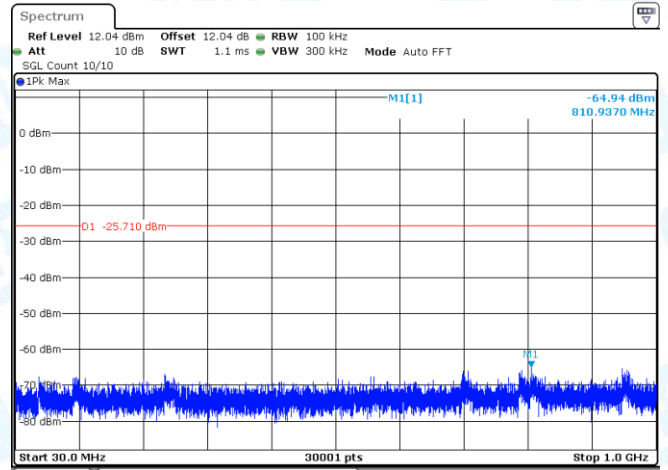
DH5-Ant1-2441-30~1000-PASS

DH5-Ant1-2441-1000~26500-PASS



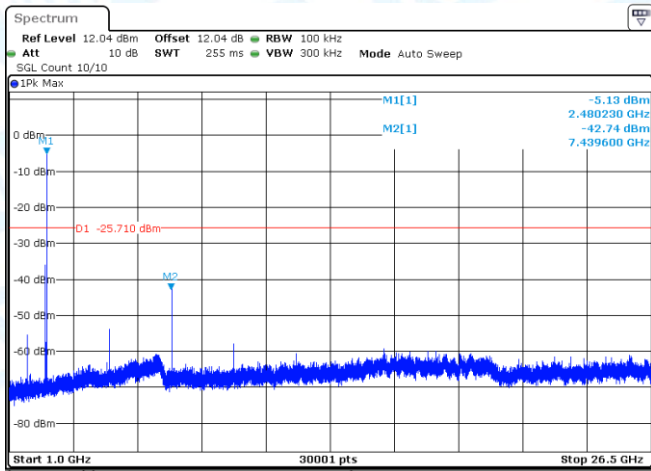
Date: 9.JUL.2025 18:48:48

DH5-Ant1-2480-0~Reference-PASS



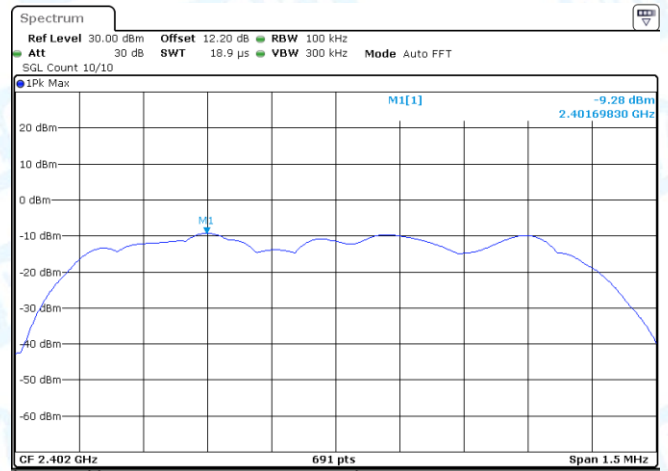
Date: 9.JUL.2025 18:48:56

DH5-Ant1-2480-30~1000-PASS



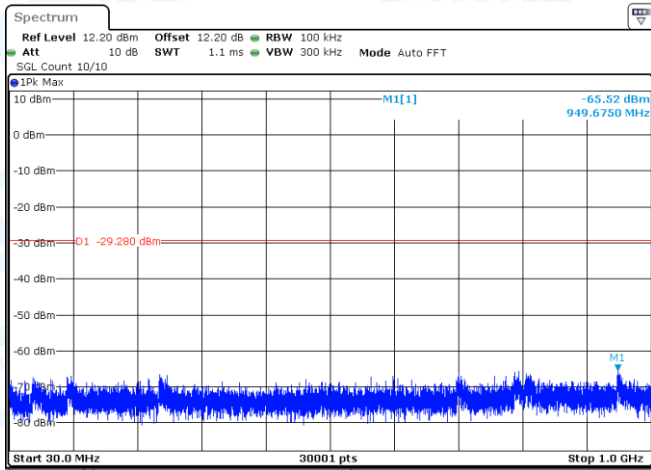
Date: 9.JUL.2025 18:49:13

DH5-Ant1-2480-1000~26500-PASS



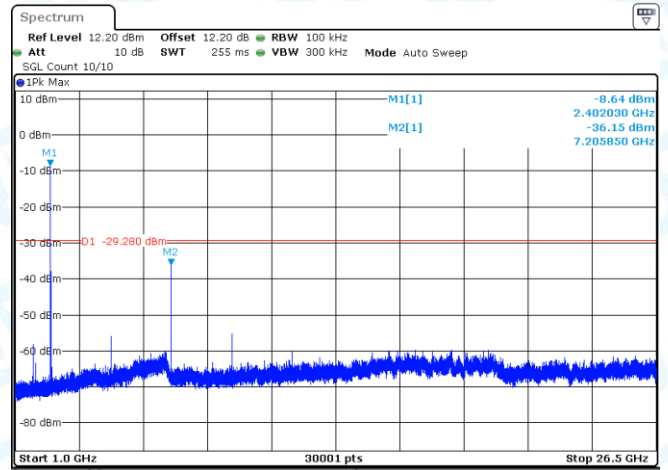
Date: 9.JUL.2025 18:51:30

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



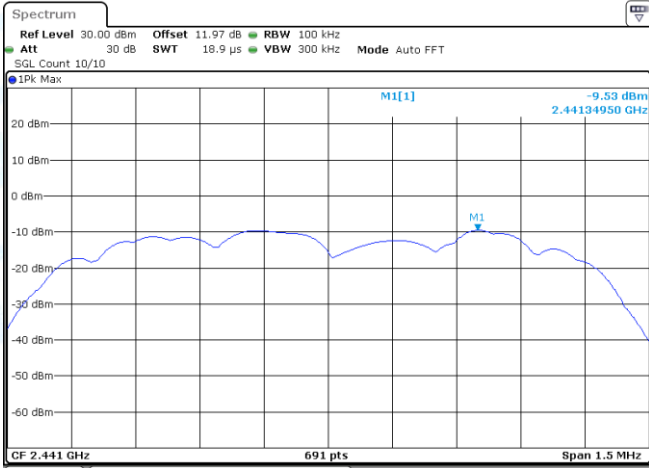
Date: 9.JUL.2025 18:51:37

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



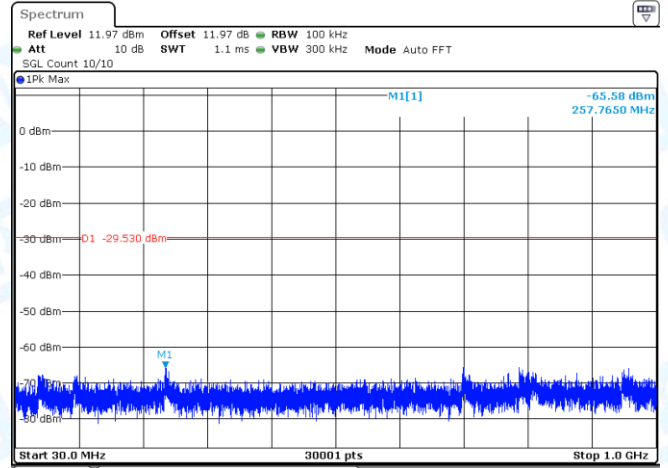
Date: 9.JUL.2025 18:51:55

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



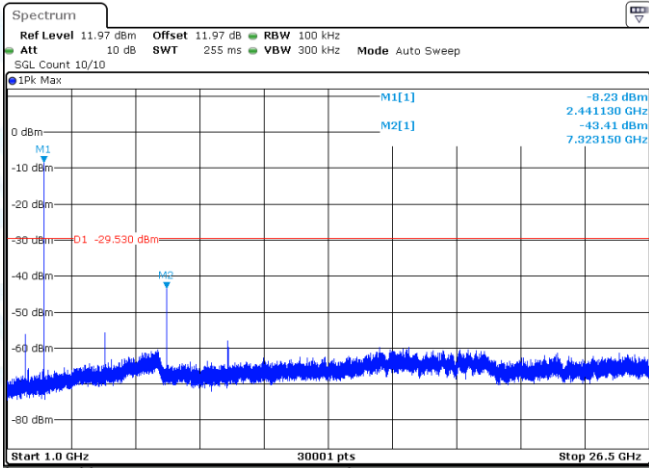
Date: 9.JUL.2025 18:52:46

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



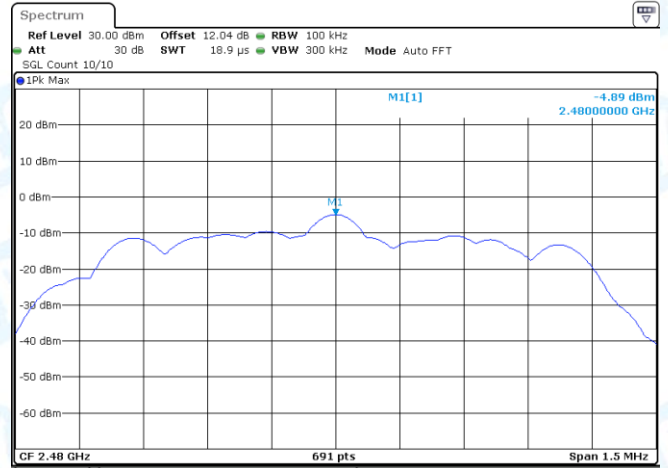
Date: 9.JUL.2025 18:52:53

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



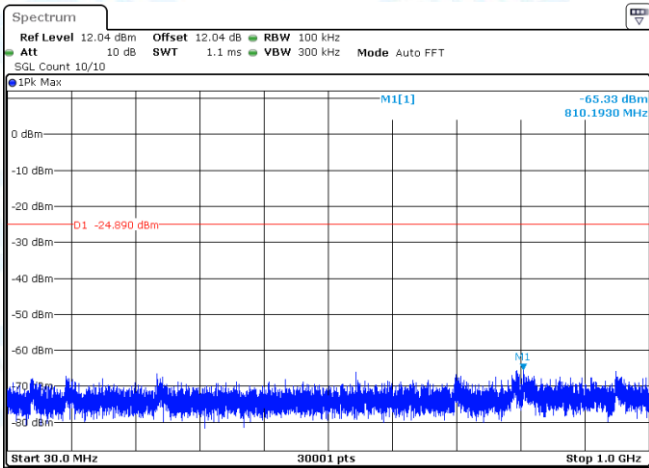
Date: 9.JUL.2025 18:53:11

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



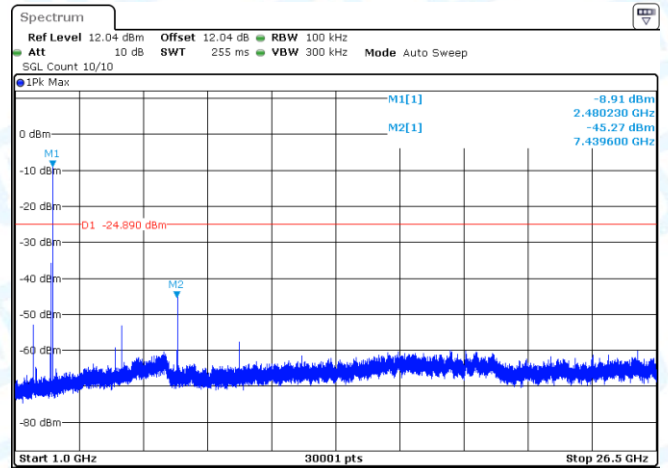
Date: 9.JUL.2025 18:54:47

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



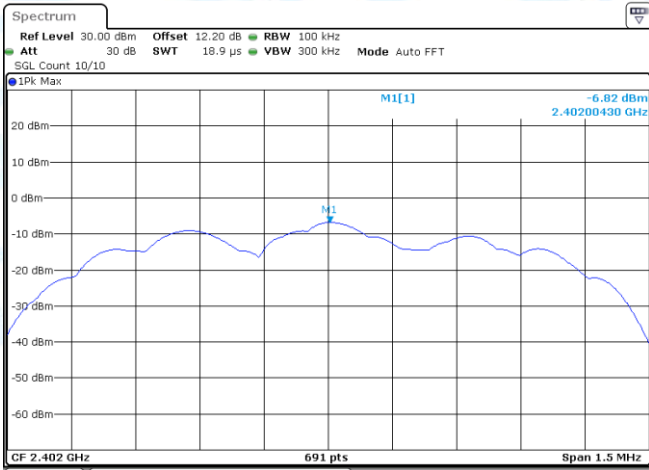
Date: 9.JUL.2025 18:54:54

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



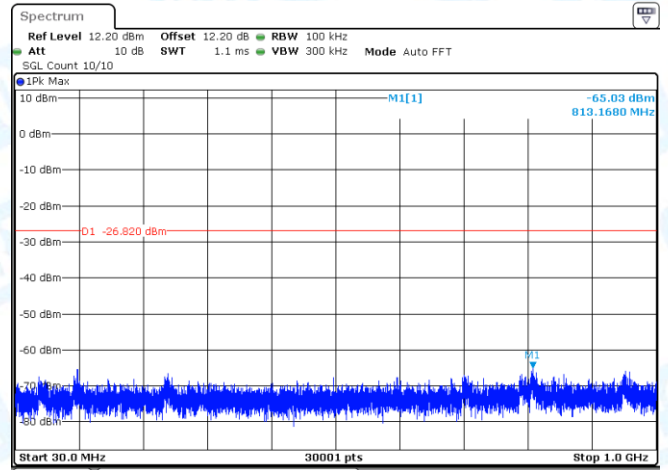
Date: 9.JUL.2025 18:55:11

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



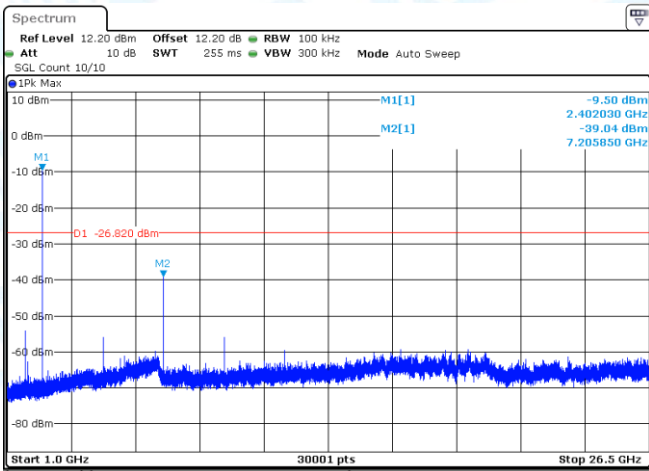
Date: 9.JUL.2025 18:57:32

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



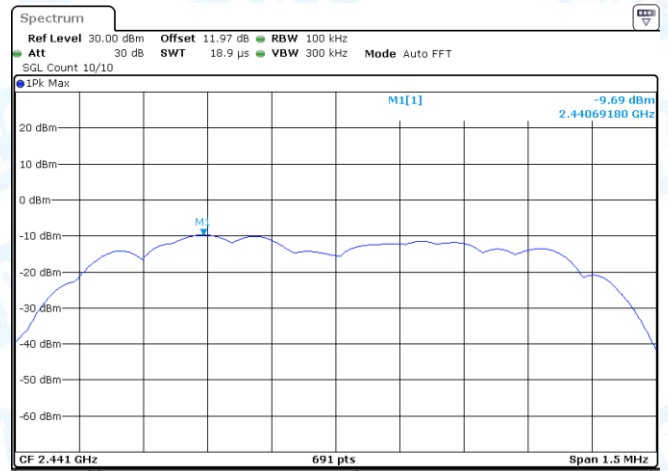
Date: 9.JUL.2025 18:57:39

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



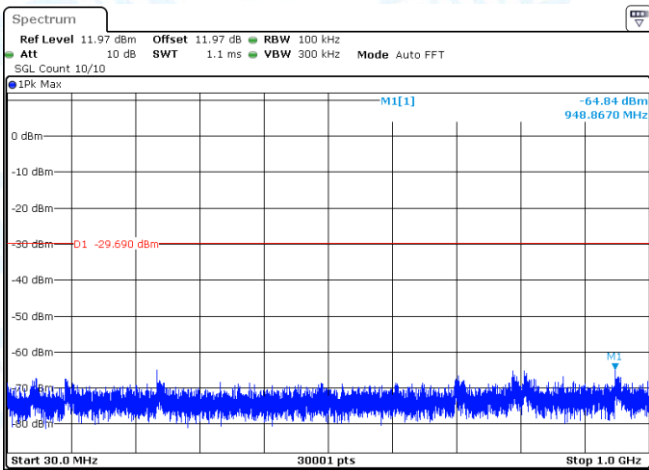
Date: 9.JUL.2025 18:57:57

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



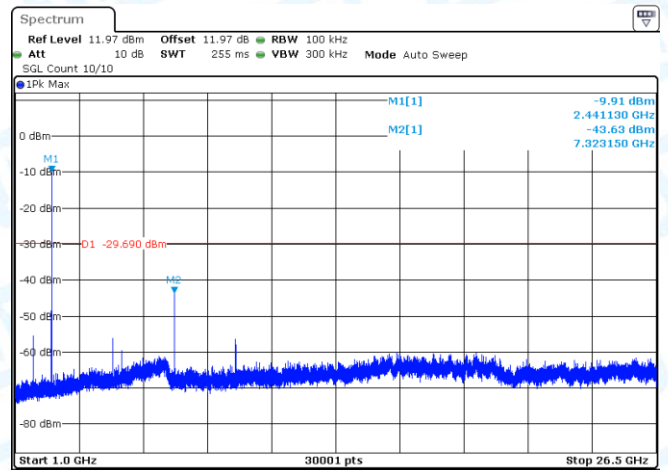
Date: 9.JUL.2025 18:59:54

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



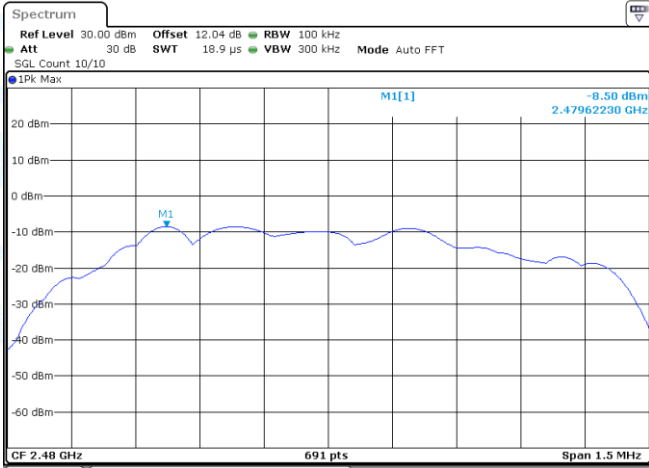
Date: 9.JUL.2025 19:00:01

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

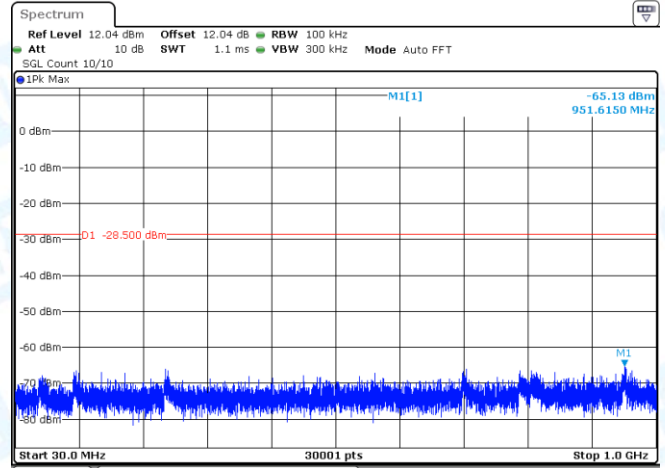


Date: 9.JUL.2025 19:00:19

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



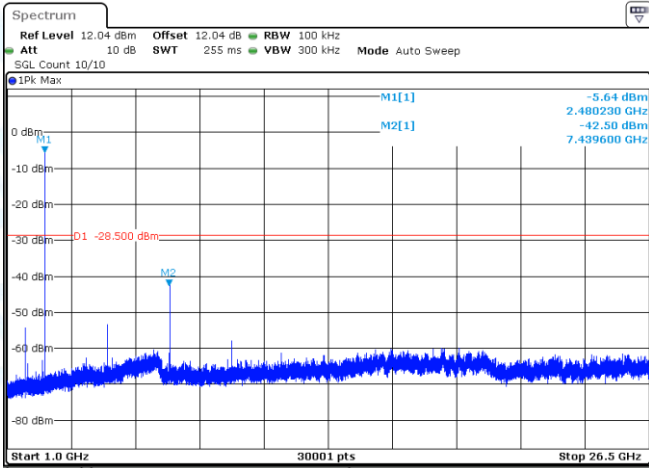
Date: 9.JUL.2025 19:01:53



Date: 9.JUL.2025 19:02:00

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

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



Date: 9.JUL.2025 19:02:18

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

9: Duty Cycle

9.1 Test Result

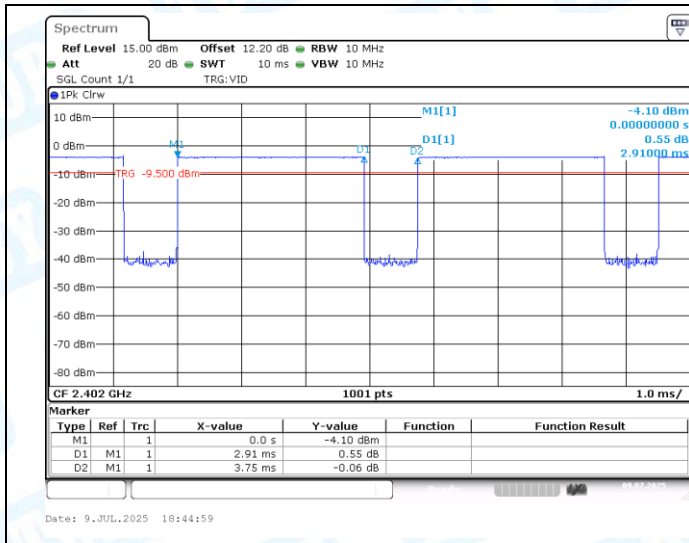
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
DH5	Ant1	2402	2.91	3.75	77.60	1.10	0.34
DH5	Ant1	2441	2.91	3.75	77.60	1.10	0.34
DH5	Ant1	2480	2.91	3.75	77.60	1.10	0.34
2DH5	Ant1	2402	2.90	3.76	77.13	1.13	0.34
2DH5	Ant1	2441	2.90	3.75	77.33	1.12	0.34
2DH5	Ant1	2480	2.90	3.75	77.33	1.12	0.34
3DH5	Ant1	2402	2.90	3.75	77.33	1.12	0.34
3DH5	Ant1	2441	2.90	3.75	77.33	1.12	0.34
3DH5	Ant1	2480	2.90	3.75	77.33	1.12	0.34

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

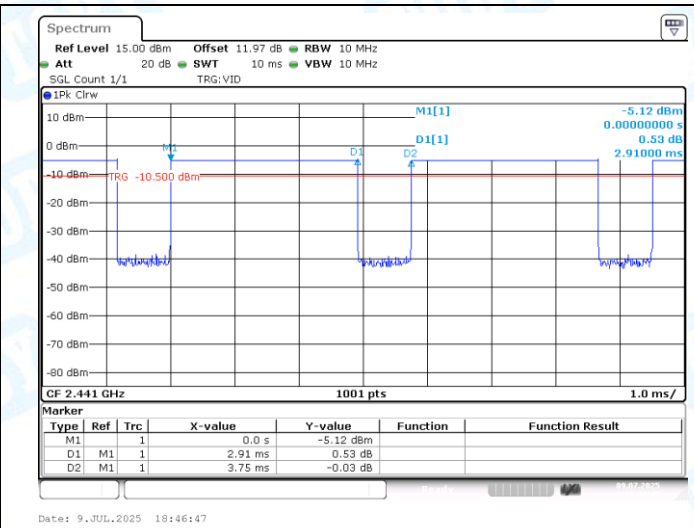
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

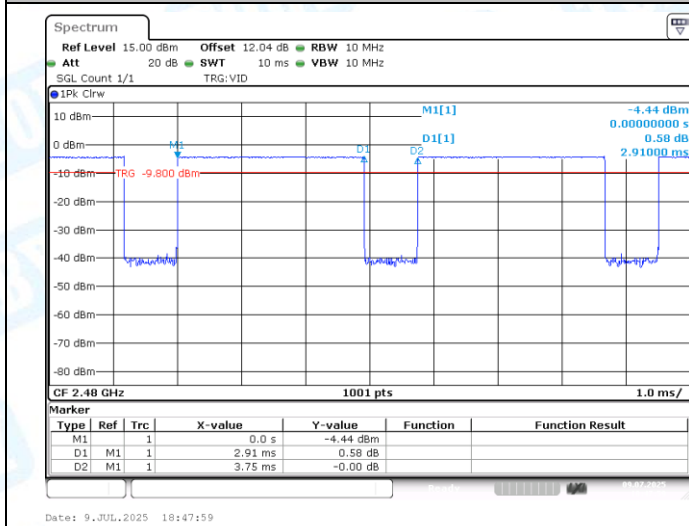
9.2 Test Graphs



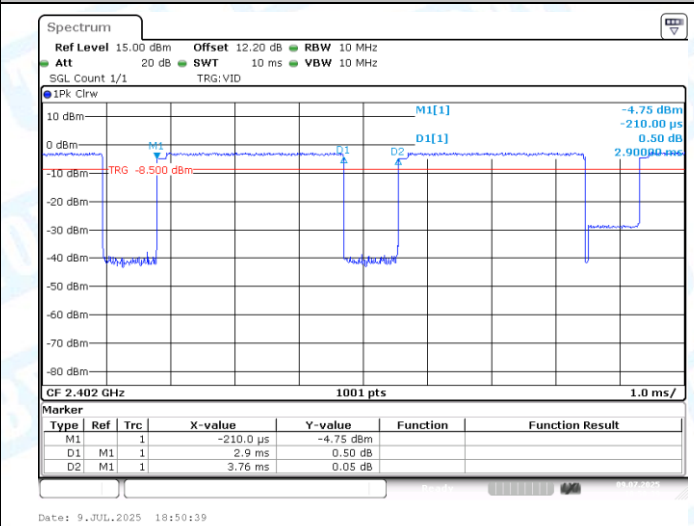
NTNV-DH5-Ant1-2402



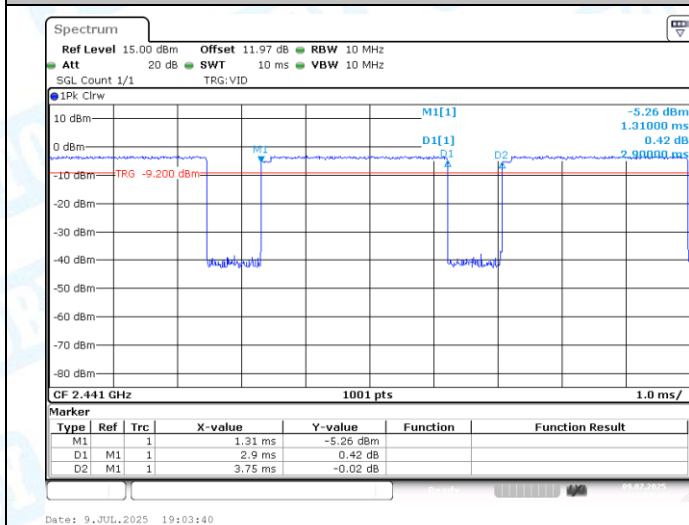
NTNV-DH5-Ant1-2441



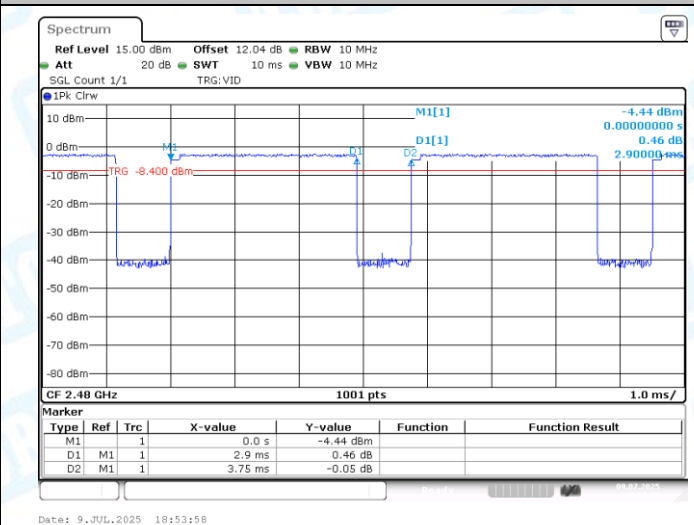
NTNV-DH5-Ant1-2480



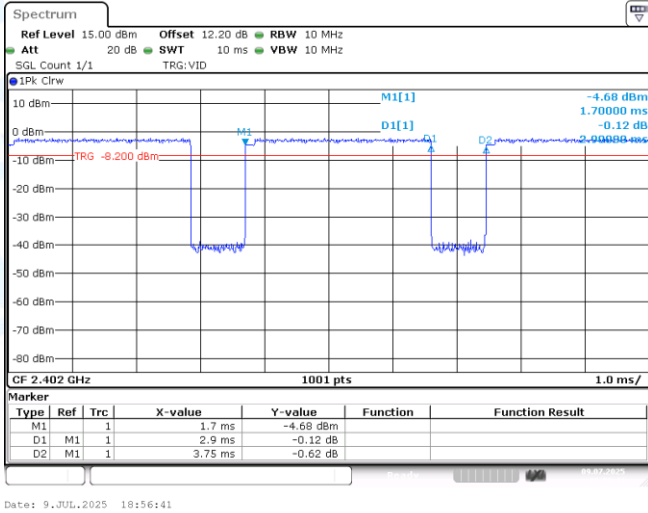
NTNV-2DH5-Ant1-2402



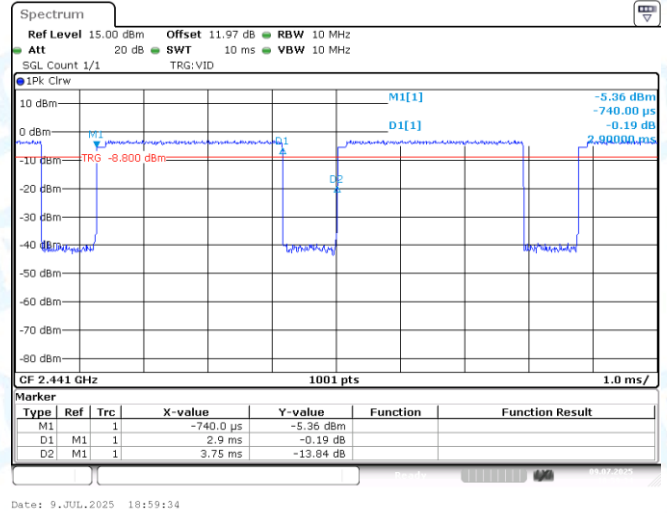
NTNV-2DH5-Ant1-2441



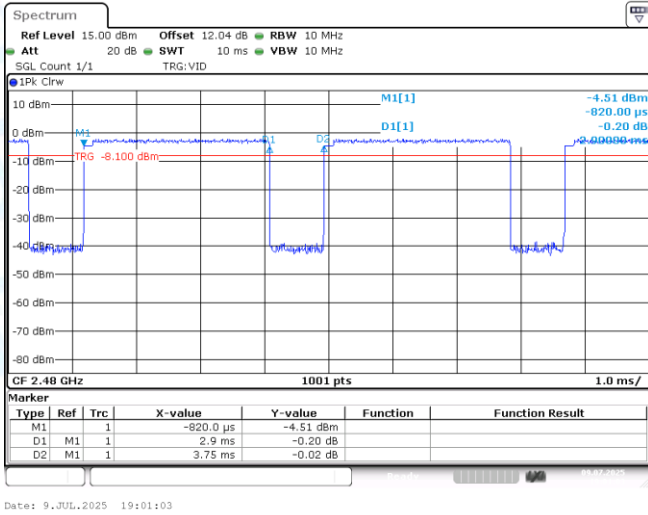
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

10: Emissions in Restricted Bands

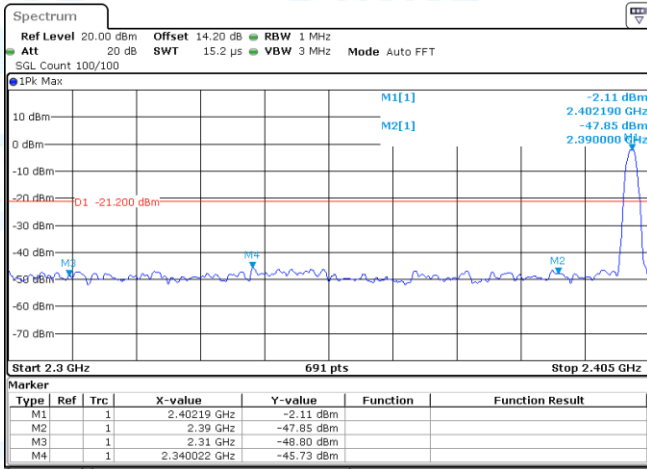
10.1 Test Result

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	-47.85	≤-21.20	47.35	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-48.8	≤-21.20	46.40	≤74	PASS
DH5	Ant1	Low	2402	Peak	2340.022	-45.73	≤-21.20	49.47	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-56.66	≤-41.20	38.54	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-56.23	≤-41.20	38.97	≤54	PASS
DH5	Ant1	Low	2402	AV	2340.478	-53.73	≤-41.20	41.47	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-50.15	≤-21.20	45.05	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-48.66	≤-21.20	46.54	≤74	PASS
DH5	Ant1	High	2480	Peak	2486.232	-46.7	≤-21.20	48.50	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-55.99	≤-41.20	39.21	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-56.87	≤-41.20	38.33	≤54	PASS
DH5	Ant1	High	2480	AV	2487.739	-54.85	≤-41.20	40.35	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-49.64	≤-21.20	45.56	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-49.98	≤-21.20	45.22	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2343.978	-44.6	≤-21.20	50.60	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-57.06	≤-41.20	38.14	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-56.34	≤-41.20	38.86	≤54	PASS
2DH5	Ant1	Low	2402	AV	2341.848	-54.17	≤-41.20	41.03	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-48.88	≤-21.20	46.32	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-49.54	≤-21.20	45.66	≤74	PASS
2DH5	Ant1	High	2480	Peak	2483.797	-46.7	≤-21.20	48.50	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-56.29	≤-41.20	38.91	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-56.88	≤-41.20	38.32	≤54	PASS
2DH5	Ant1	High	2480	AV	2497.246	-55.28	≤-41.20	39.92	≤54	PASS
3DH5	Ant1	Low	2402	Peak	2390.000	-49.06	≤-21.20	46.14	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-49.6	≤-21.20	45.60	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2370.761	-46.22	≤-21.20	48.98	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-56.79	≤-41.20	38.41	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-56.17	≤-41.20	39.03	≤54	PASS
3DH5	Ant1	Low	2402	AV	2343.674	-53.67	≤-41.20	41.53	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-51.41	≤-21.20	43.79	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-48.81	≤-21.20	46.39	≤74	PASS
3DH5	Ant1	High	2480	Peak	2499.333	-45.91	≤-21.20	49.29	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-55.53	≤-41.20	39.67	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-56.24	≤-41.20	38.96	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.797	-54.96	≤-41.20	40.24	≤54	PASS

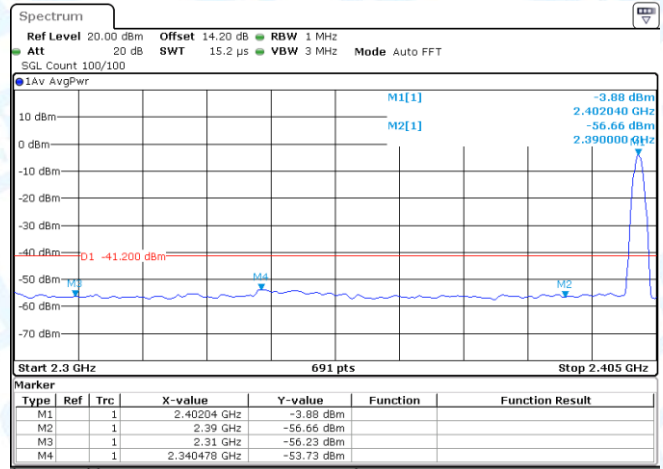
Note:

- 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



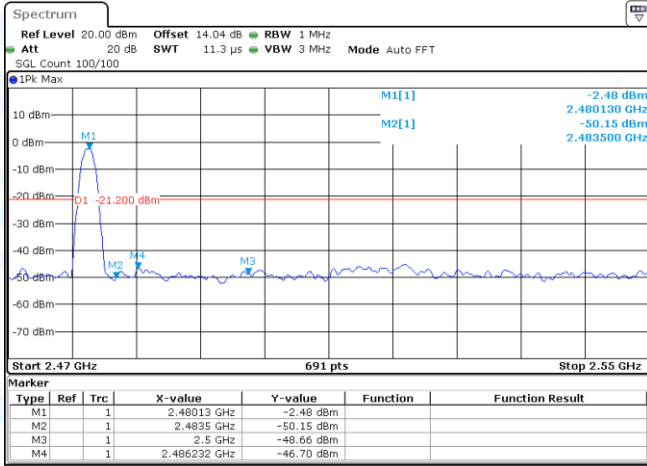
Date: 9.JUL.2025 18:45:31



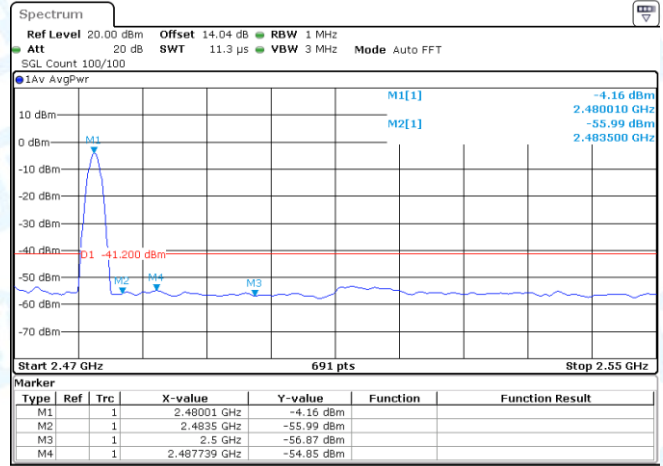
Date: 9.JUL.2025 18:45:43

DH5-Ant1-2402-PASS

DH5-Ant1-2402-PASS



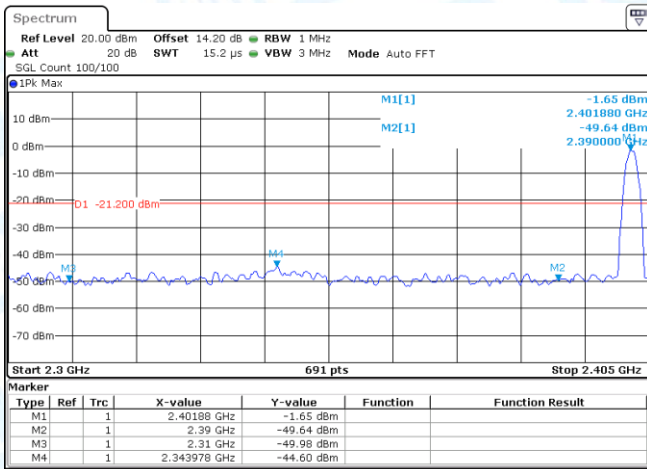
Date: 9.JUL.2025 18:48:32



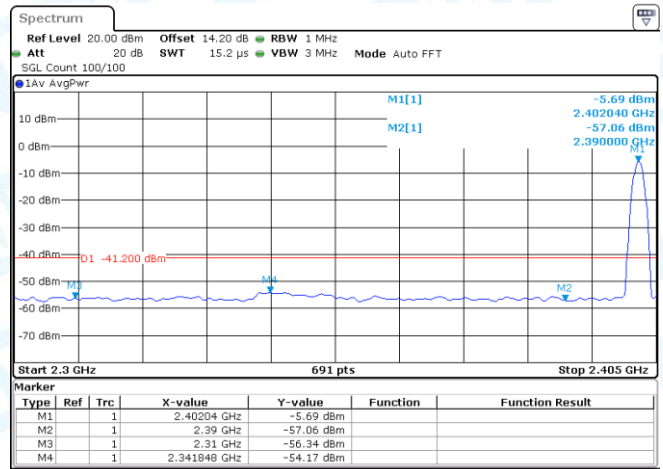
Date: 9.JUL.2025 18:48:42

DH5-Ant1-2480-PASS

DH5-Ant1-2480-PASS



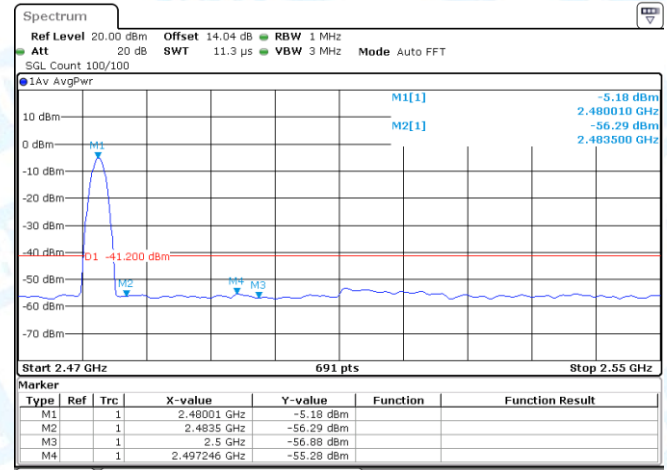
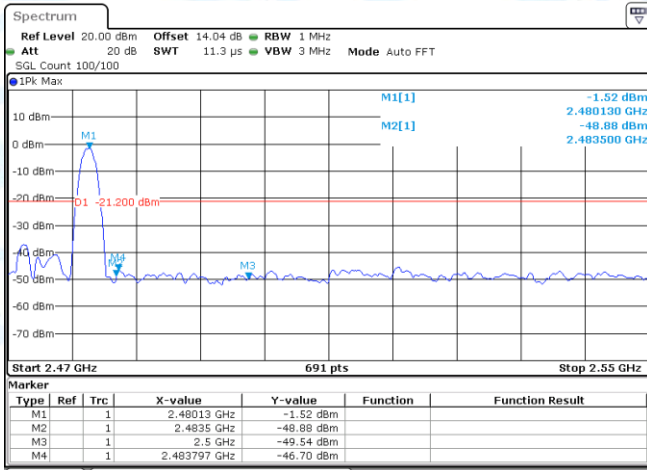
Date: 9.JUL.2025 18:51:12



Date: 9.JUL.2025 18:51:24

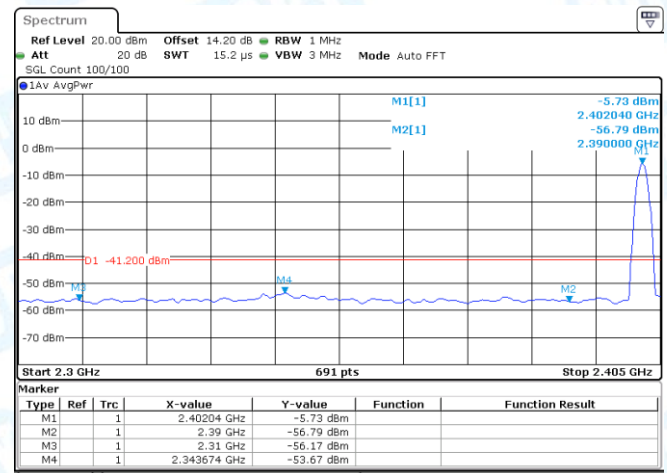
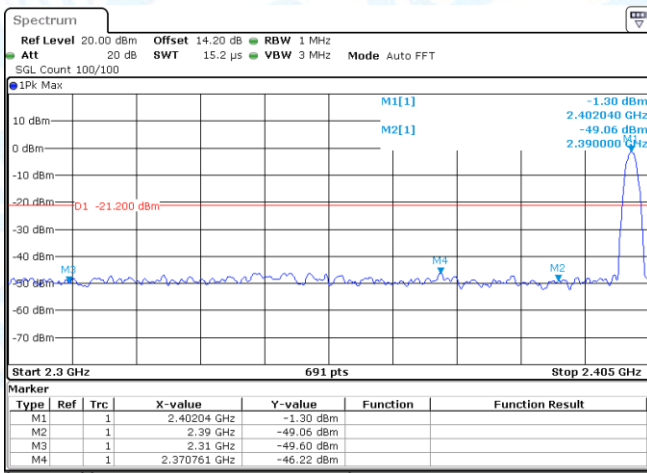
2DH5-Ant1-2402-PASS

2DH5-Ant1-2402-PASS



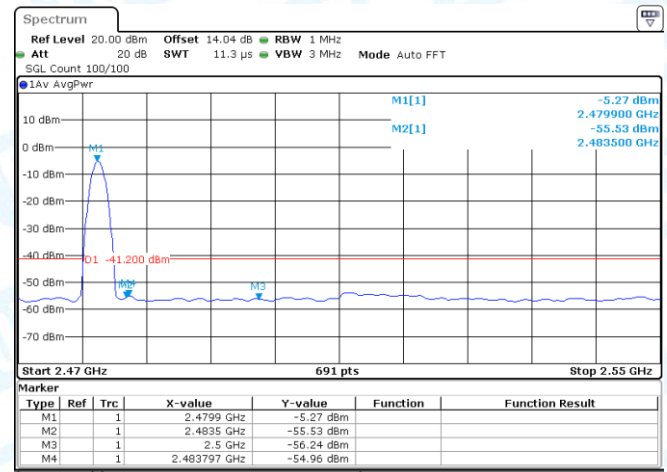
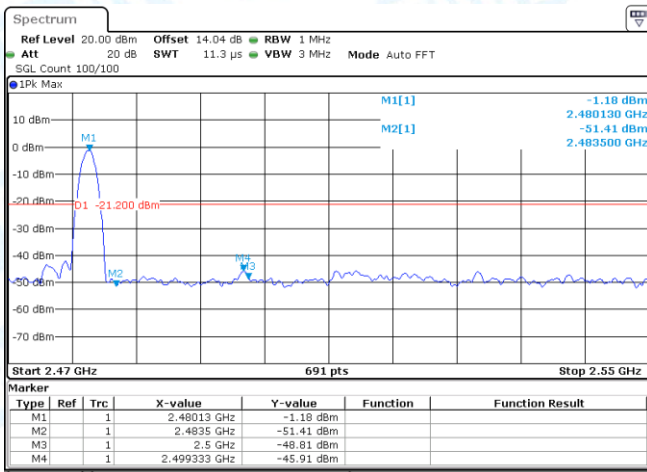
2DH5-Ant1-2480-PASS

2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS

3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS

3DH5-Ant1-2480-PASS

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