

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

General Description of EUT	
EUT Name:	Portable Gaming Computer(Tablet computer)
Model:	AYANEO Pocket Micro
Sample ID:	HC-C-202407-0066-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	24.3℃
Ambient Humidity:	55%RH
Test Power Supply:	DC 3.85V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202407-0066-6	

Contents

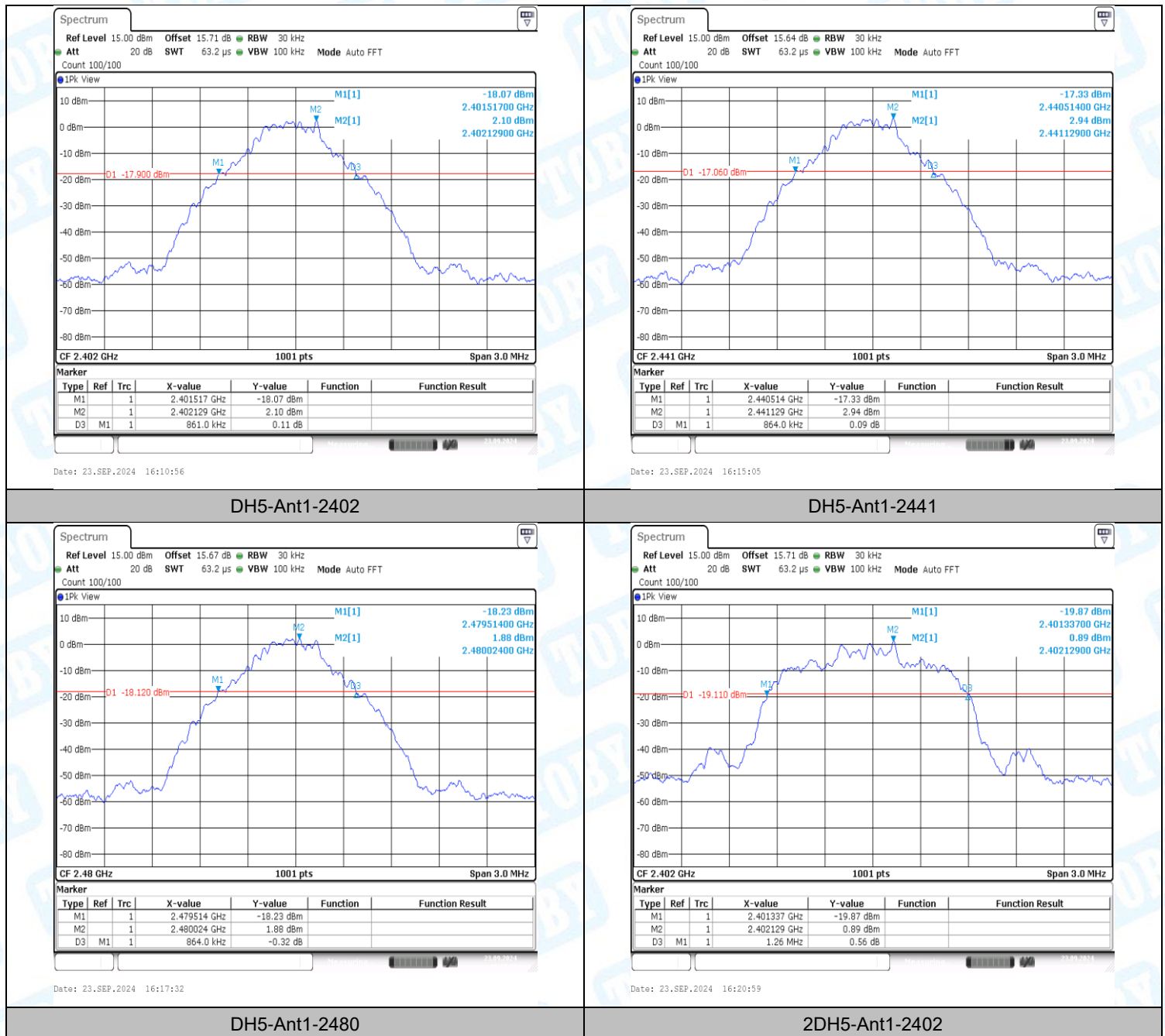
1: 20dB Emission Bandwidth	3
1.1 Test Result	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth	7
2.1 Test Result	7
2.2 Test Graphs	8
3: Maximum conducted output power	11
3.1 Test Result Peak	11
3.2 Test Graphs	12
4: Carrier frequency separation	15
4.1 Test Result	15
4.2 Test Graphs	16
5: Time of occupancy	17
5.1 Test Result	17
5.2 Test Graphs	18
6: Number of hopping channels	21
6.1 Test Result	21
6.2 Test Graphs	22
7: Band edge measurements	23
7.1 Test Result	23
7.2 Test Graphs	24
8: Conducted Spurious Emission	27
8.1 Test Result	27
8.2 Test Graphs	28
9: Duty Cycle	34
9.1 Test Result	34
9.2 Test Graphs	35
10: Emissions in Restricted Bands	38
10.1 Test Result	38
10.2 Test Graphs	39

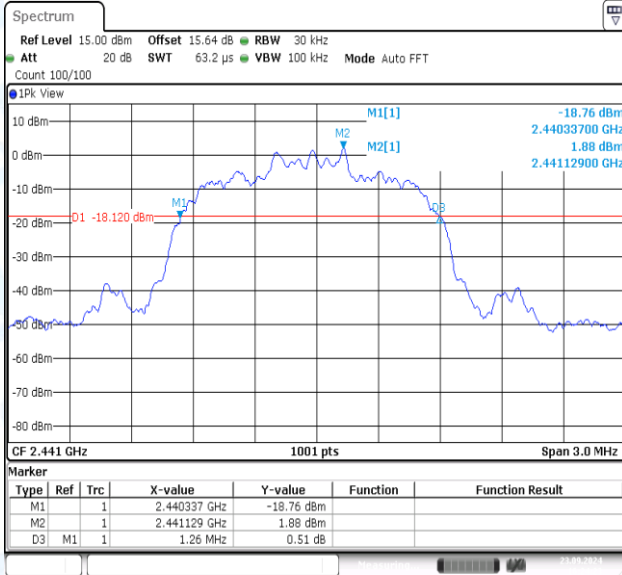
1: 20dB Emission Bandwidth

1.1 Test Result

Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	2401.52	2402.38	---	---
DH5	Ant1	2441	0.86	2440.51	2441.38	---	---
DH5	Ant1	2480	0.86	2479.51	2480.38	---	---
2DH5	Ant1	2402	1.26	2401.34	2402.60	---	---
2DH5	Ant1	2441	1.26	2440.34	2441.60	---	---
2DH5	Ant1	2480	1.26	2479.34	2480.59	---	---
3DH5	Ant1	2402	1.25	2401.33	2402.59	---	---
3DH5	Ant1	2441	1.26	2440.33	2441.59	---	---
3DH5	Ant1	2480	1.26	2479.33	2480.59	---	---

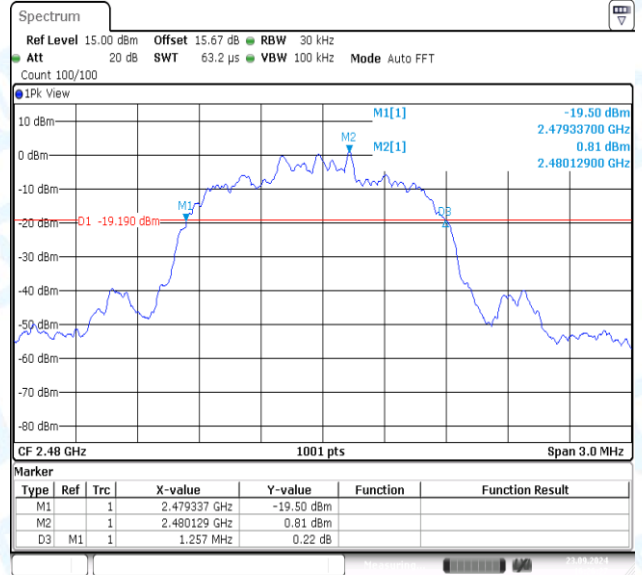
1.2 Test Graphs





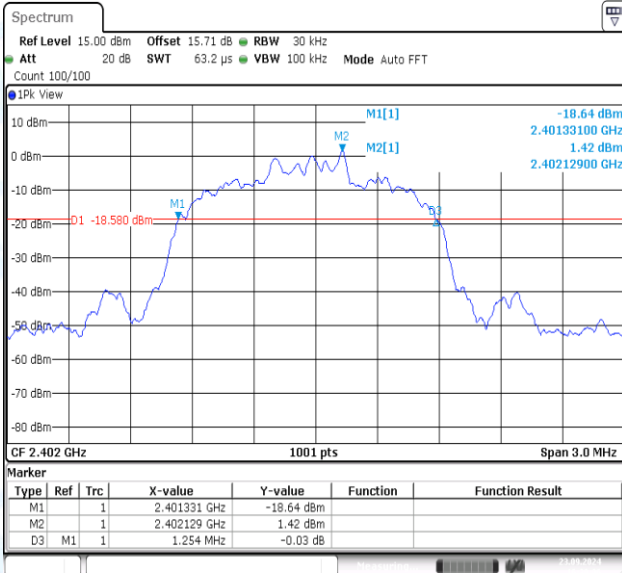
Date: 23.SEP.2024 16:24:23

2DH5-Ant1-2441



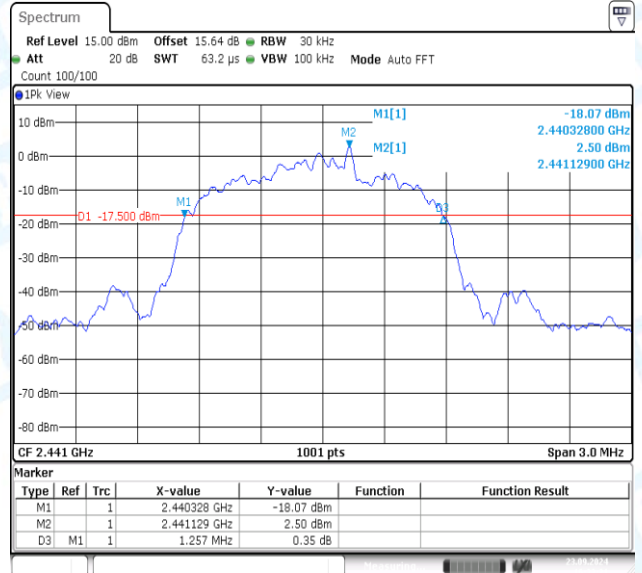
Date: 23.SEP.2024 16:26:26

2DH5-Ant1-2480



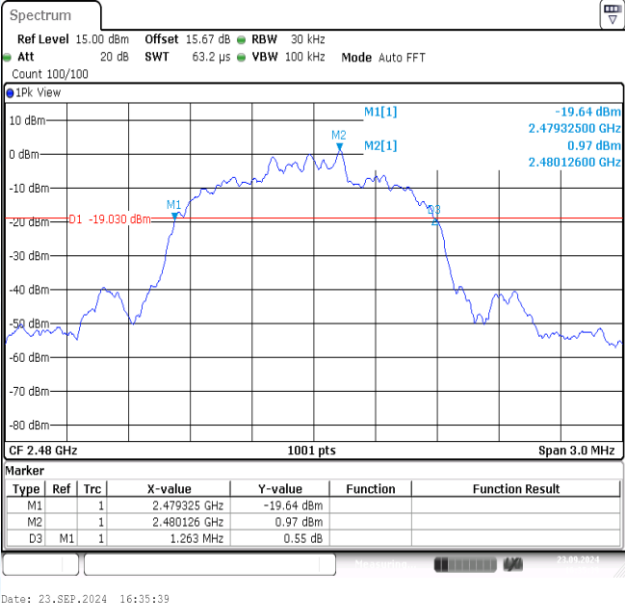
Date: 23.SEP.2024 16:30:06

3DH5-Ant1-2402



Date: 23.SEP.2024 16:33:21

3DH5-Ant1-2441



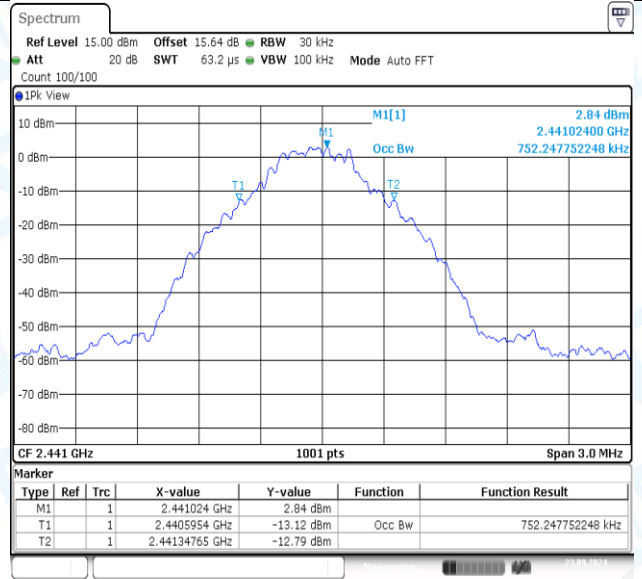
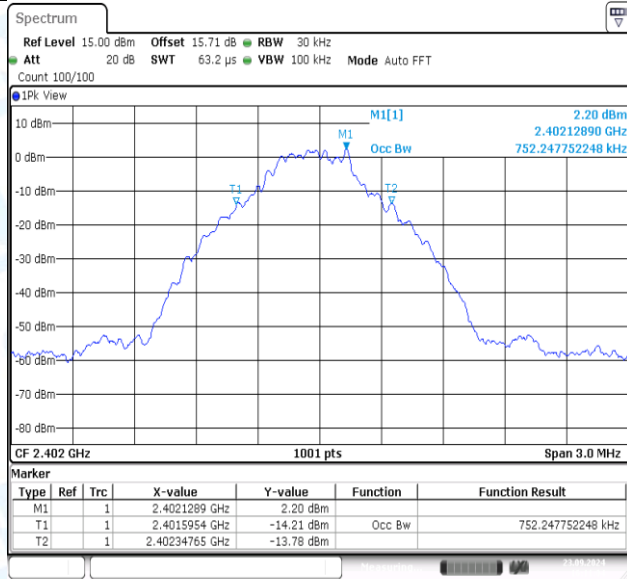
3DH5-Ant1-2480

2: Occupied Channel Bandwidth

2.1 Test Result

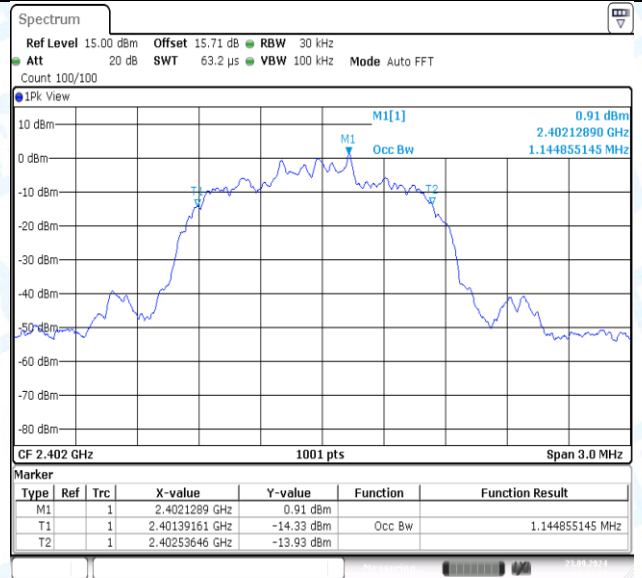
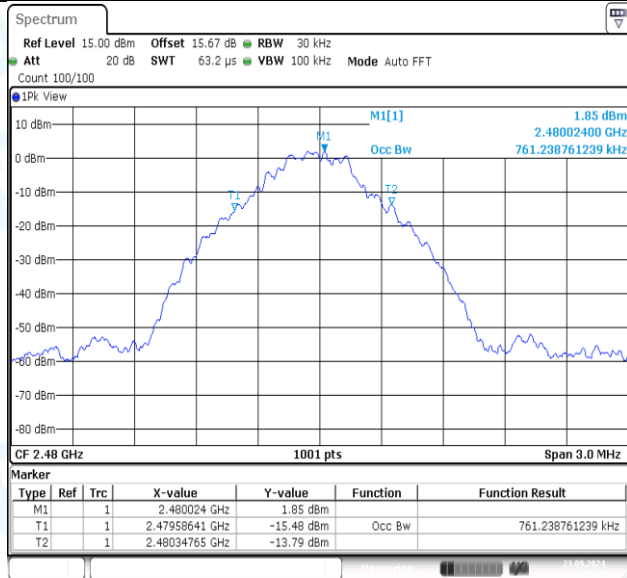
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.752	2401.5954	2402.3477	---	---
DH5	Ant1	2441	0.752	2440.5954	2441.3477	---	---
DH5	Ant1	2480	0.761	2479.5864	2480.3477	---	---
2DH5	Ant1	2402	1.145	2401.3916	2402.5365	---	---
2DH5	Ant1	2441	1.145	2440.3916	2441.5365	---	---
2DH5	Ant1	2480	1.145	2479.3886	2480.5335	---	---
3DH5	Ant1	2402	1.16	2401.3886	2402.5485	---	---
3DH5	Ant1	2441	1.148	2440.3946	2441.5425	---	---
3DH5	Ant1	2480	1.145	2479.3946	2480.5395	---	---

2.2 Test Graphs



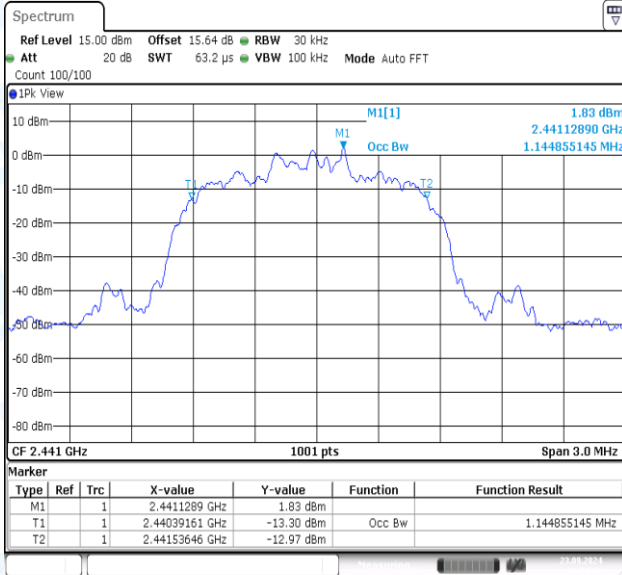
DH5-Ant1-2402

DH5-Ant1-2441

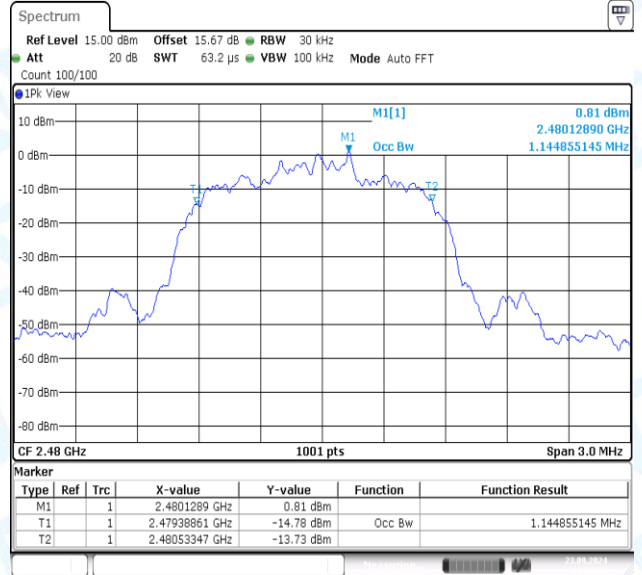


DH5-Ant1-2480

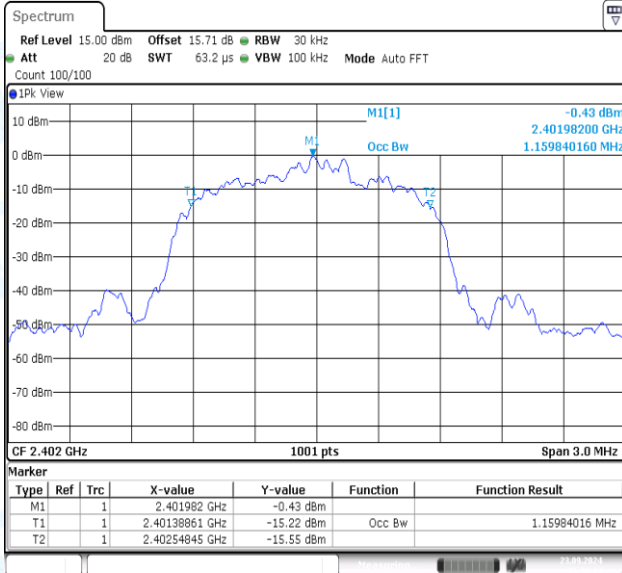
2DH5-Ant1-2402



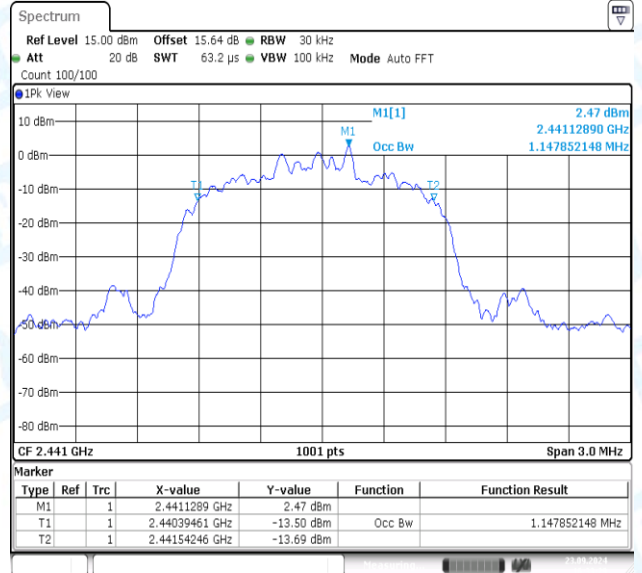
2DH5-Ant1-2441



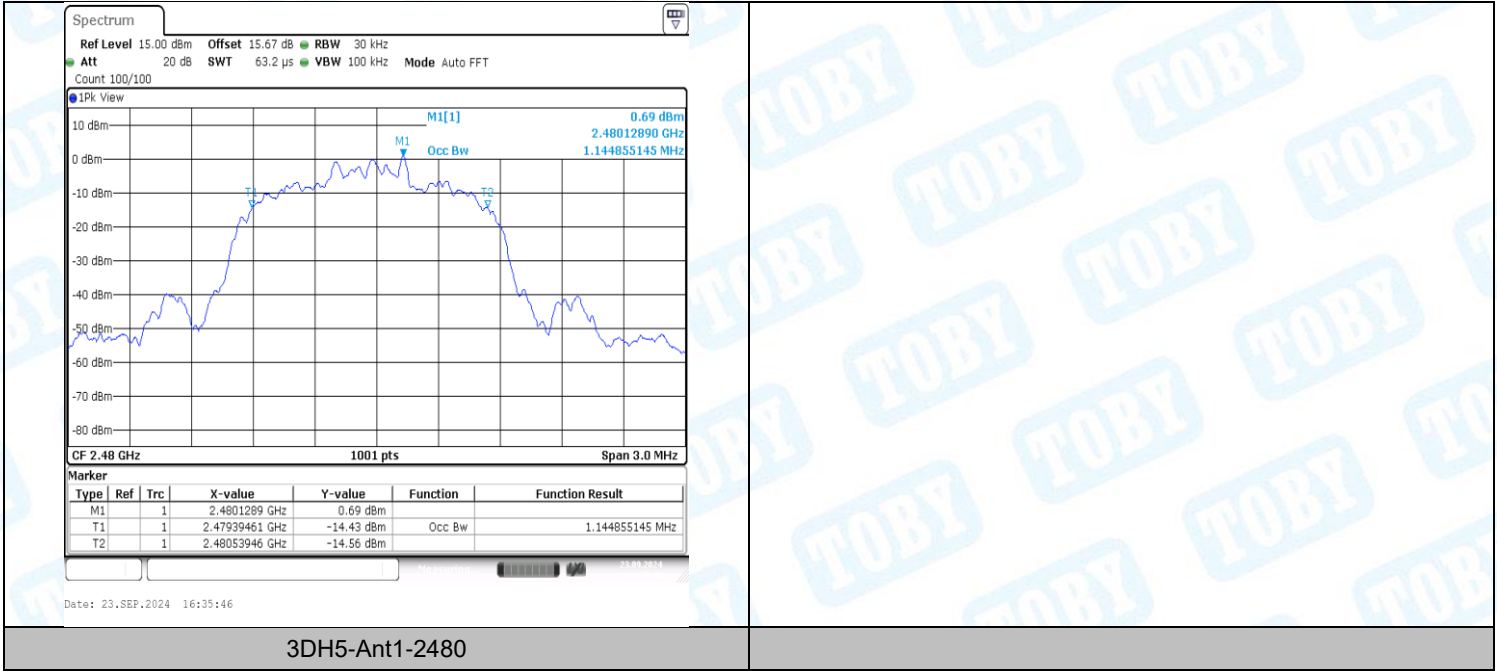
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

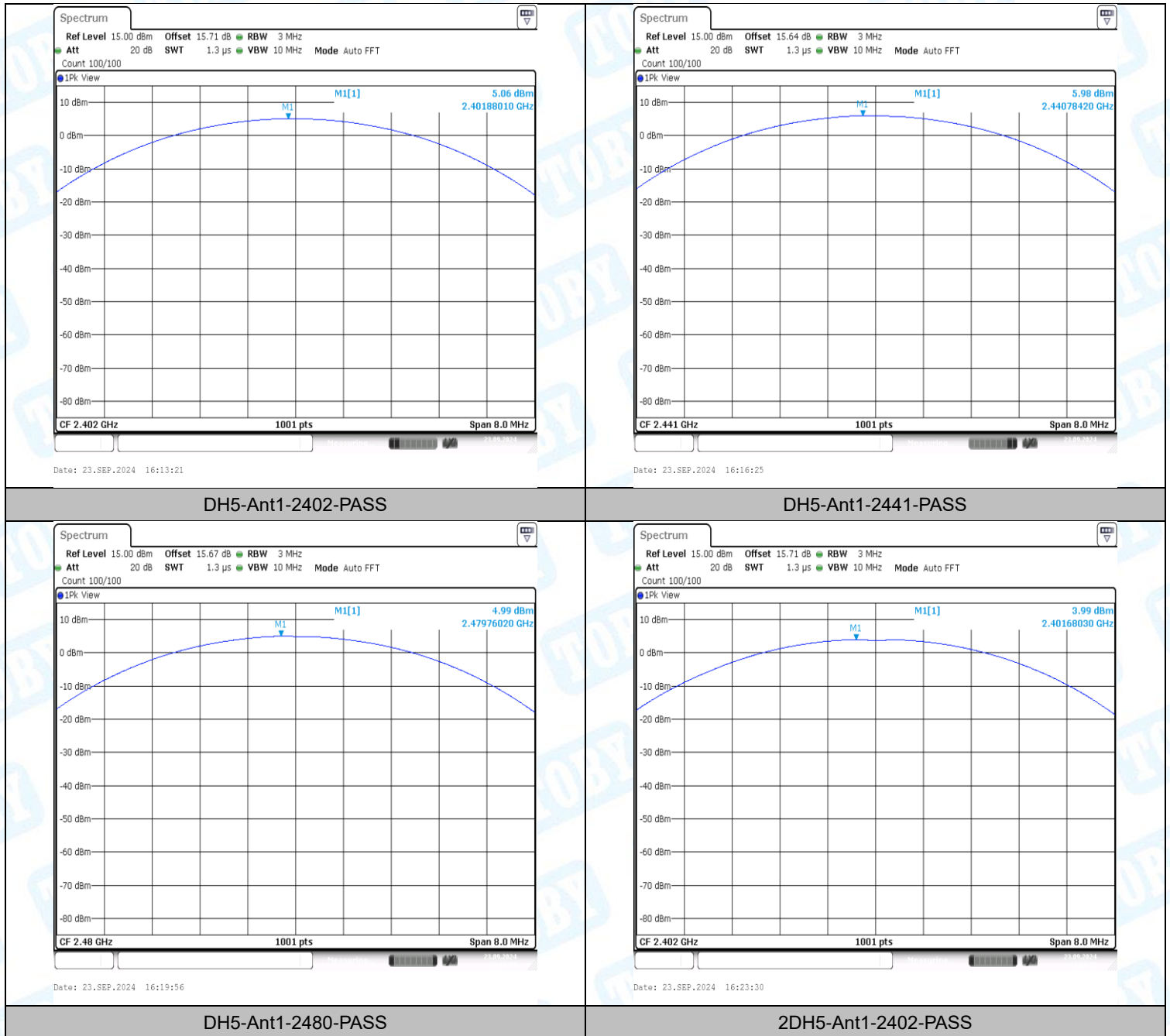


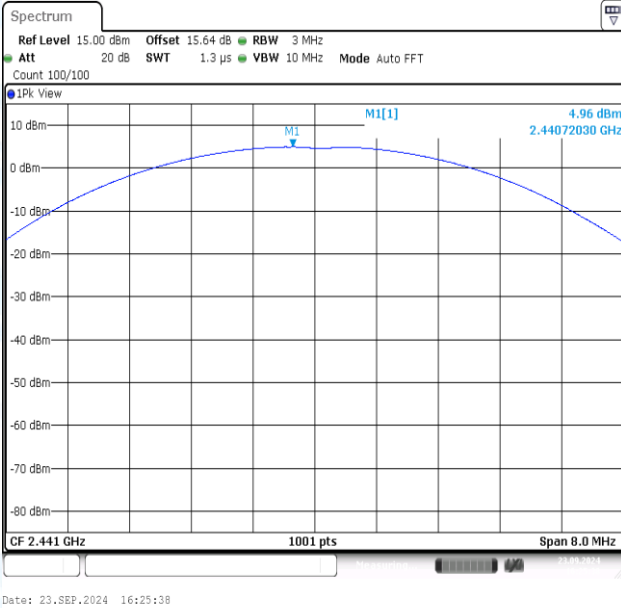
3: Maximum conducted output power

3.1 Test Result Peak

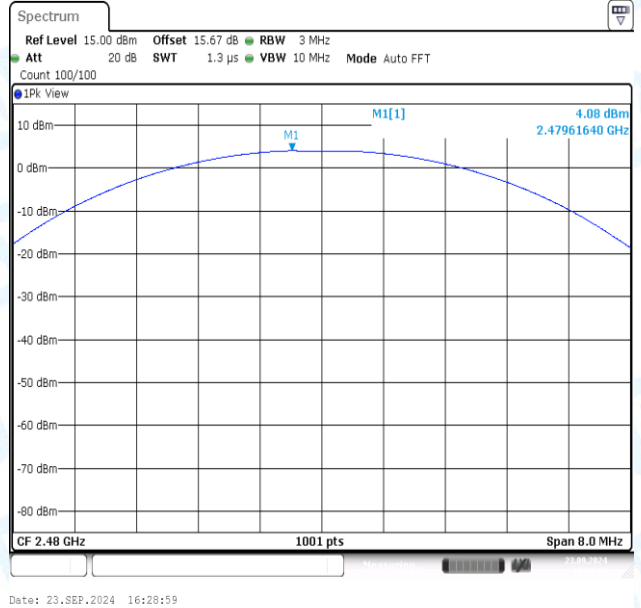
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	5.06	≤21	PASS
DH5	Ant1	2441	5.98	≤21	PASS
DH5	Ant1	2480	4.99	≤21	PASS
2DH5	Ant1	2402	3.99	≤21	PASS
2DH5	Ant1	2441	4.96	≤21	PASS
2DH5	Ant1	2480	4.08	≤21	PASS
3DH5	Ant1	2402	3.98	≤21	PASS
3DH5	Ant1	2441	4.95	≤21	PASS
3DH5	Ant1	2480	3.95	≤21	PASS

3.2 Test Graphs

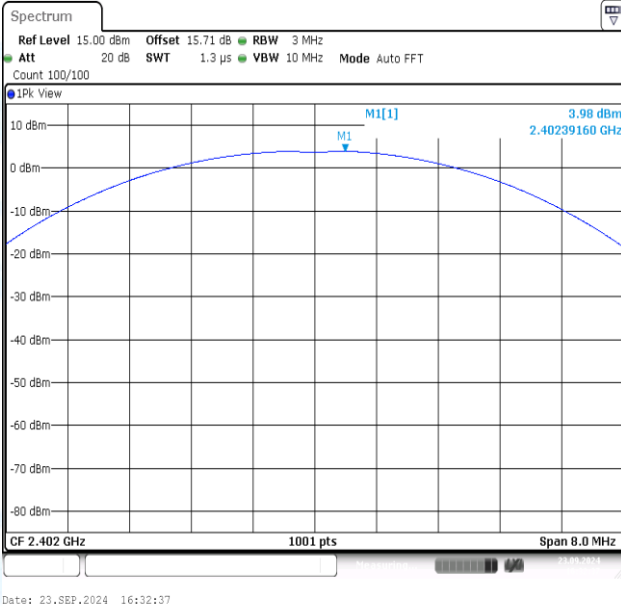




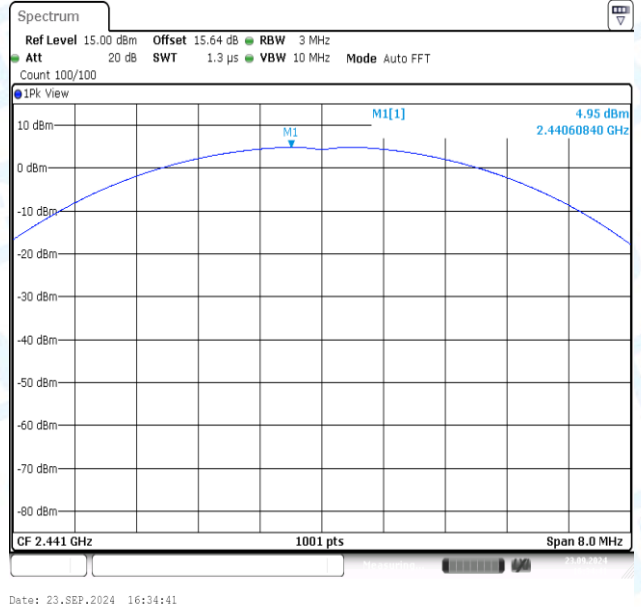
2DH5-Ant1-2441-PASS



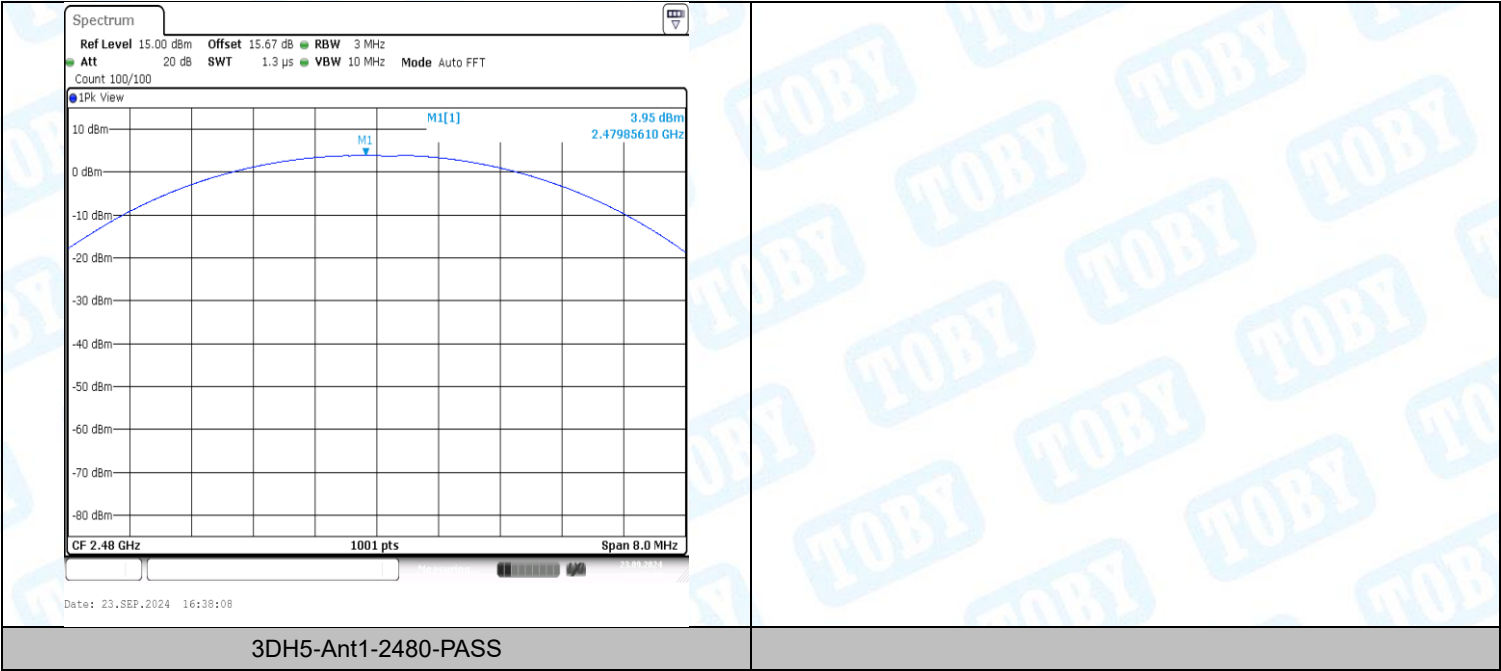
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



4: Carrier frequency separation

4.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.997	≥ 0.573	PASS
2DH5	Ant1	Hop	1.003	≥ 0.840	PASS
3DH5	Ant1	Hop	1.142	≥ 0.840	PASS

4.2 Test Graphs

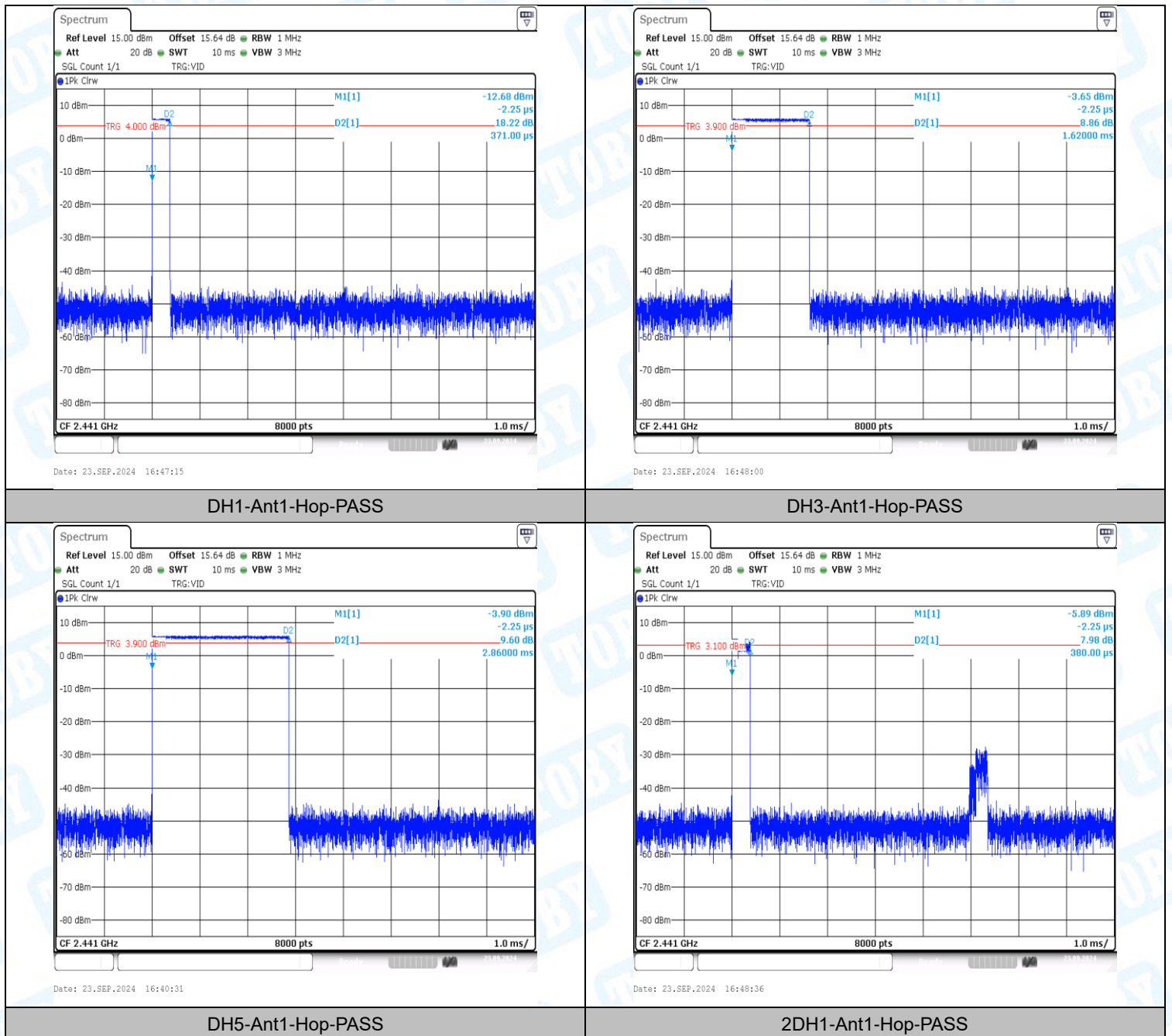


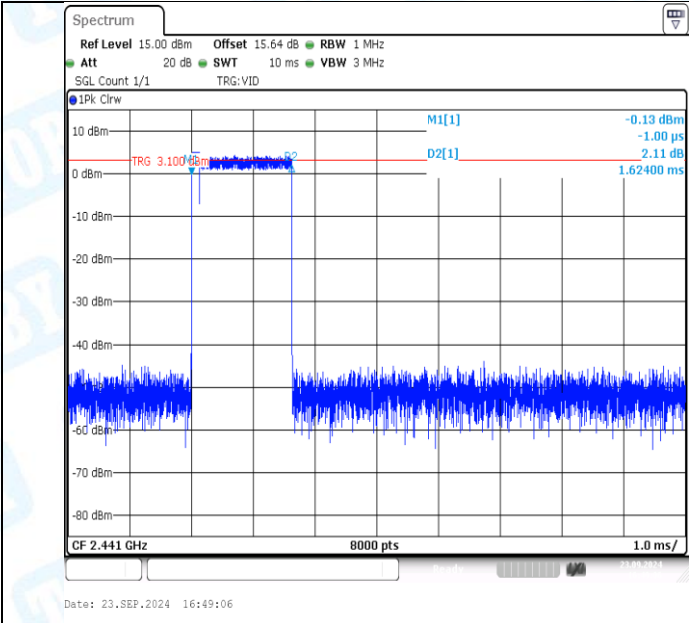
5: Time of occupancy

5.1 Test Result

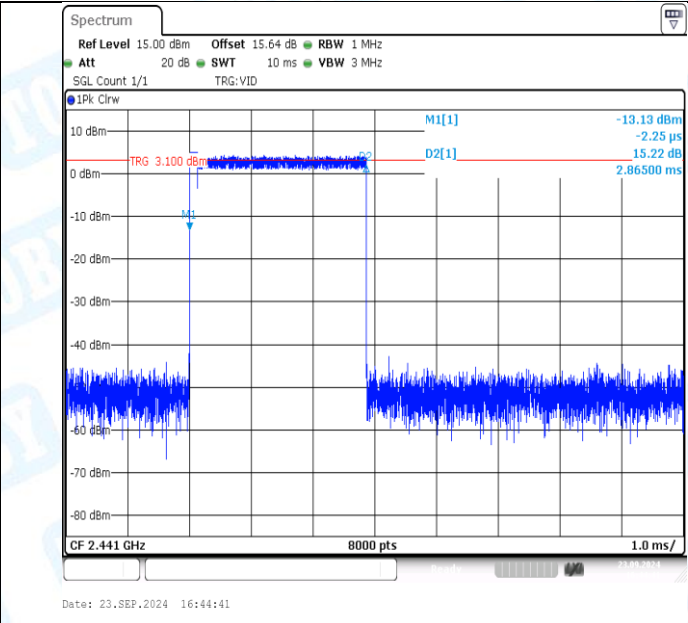
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.371	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.860	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.865	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.623	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.867	106.67	0.306	≤0.4	PASS

5.2 Test Graphs

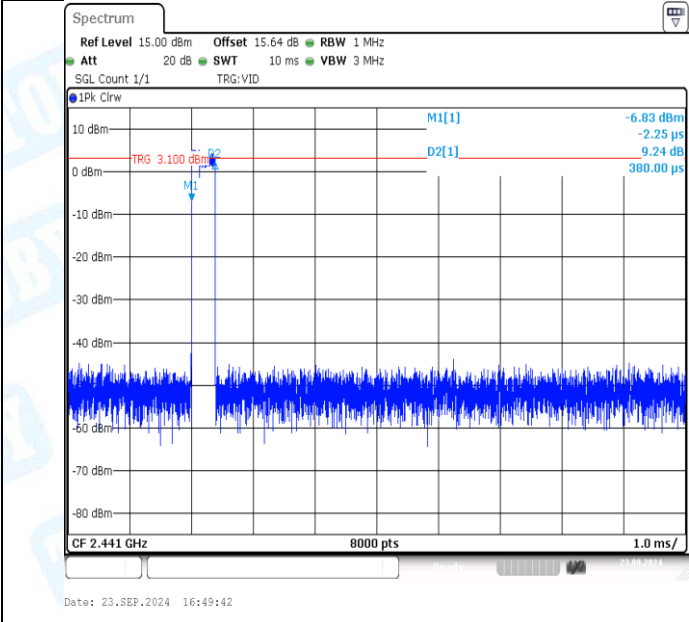




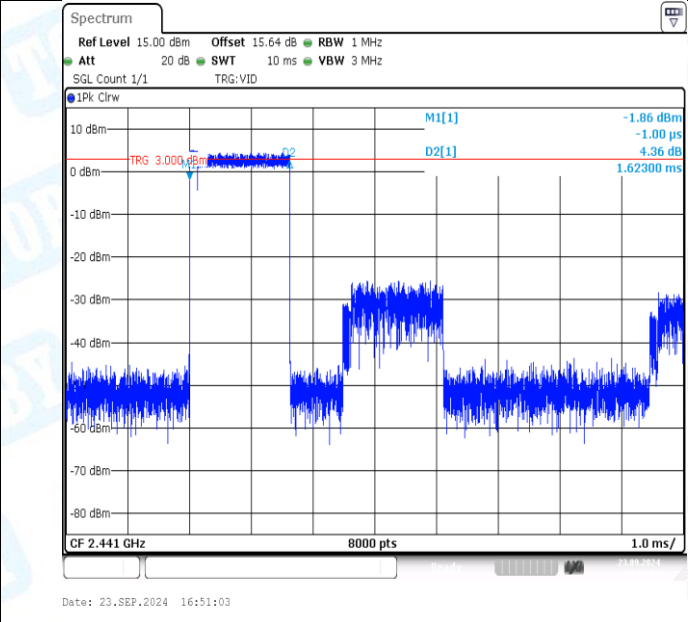
2DH3-Ant1-Hop-PASS



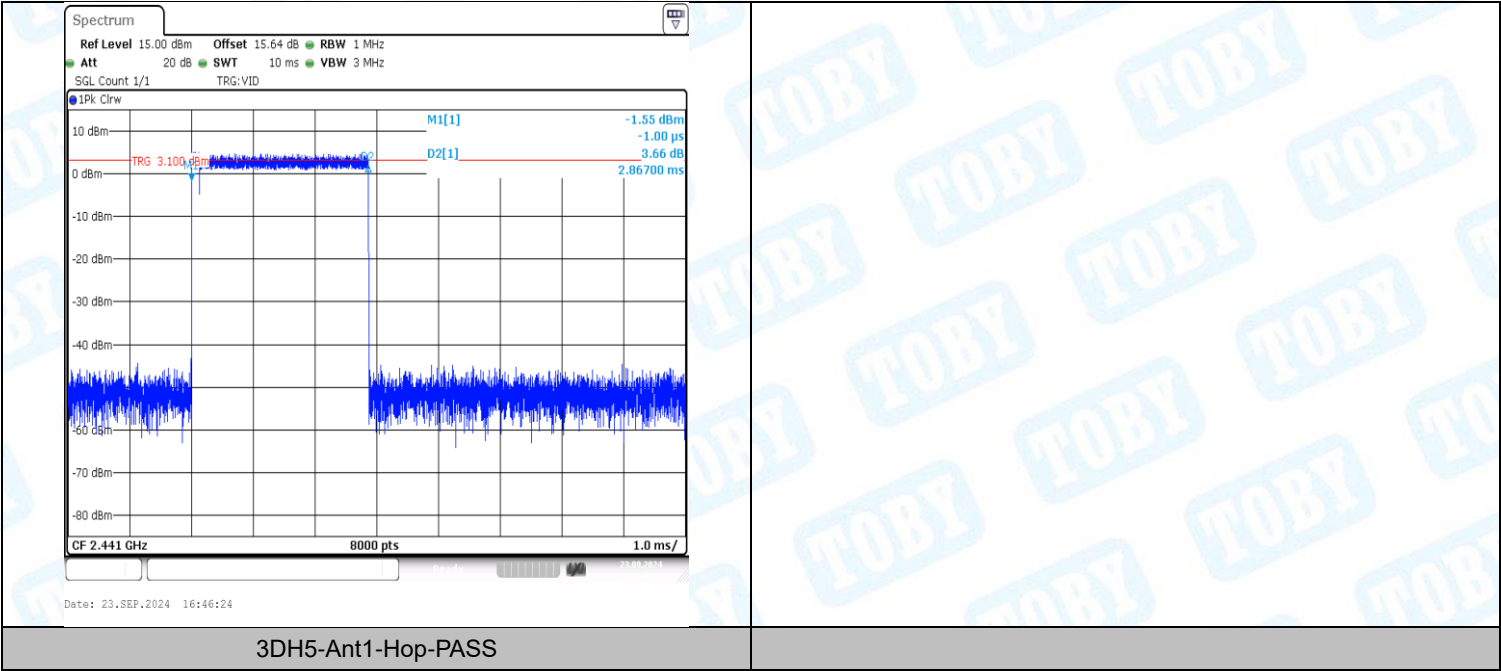
2DH5-Ant1-Hop-PASS



3DH1-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS

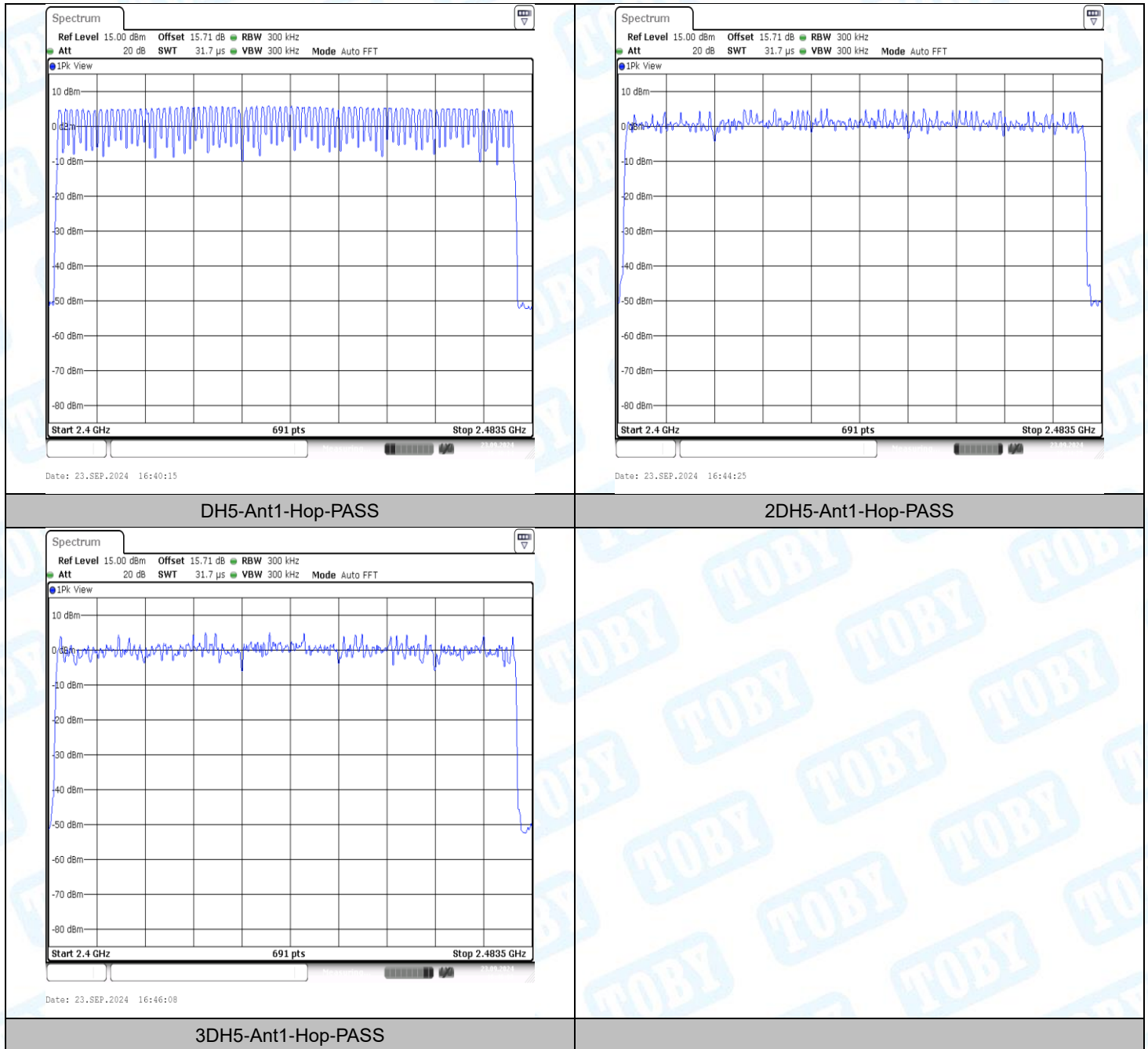


6: Number of hopping channels

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

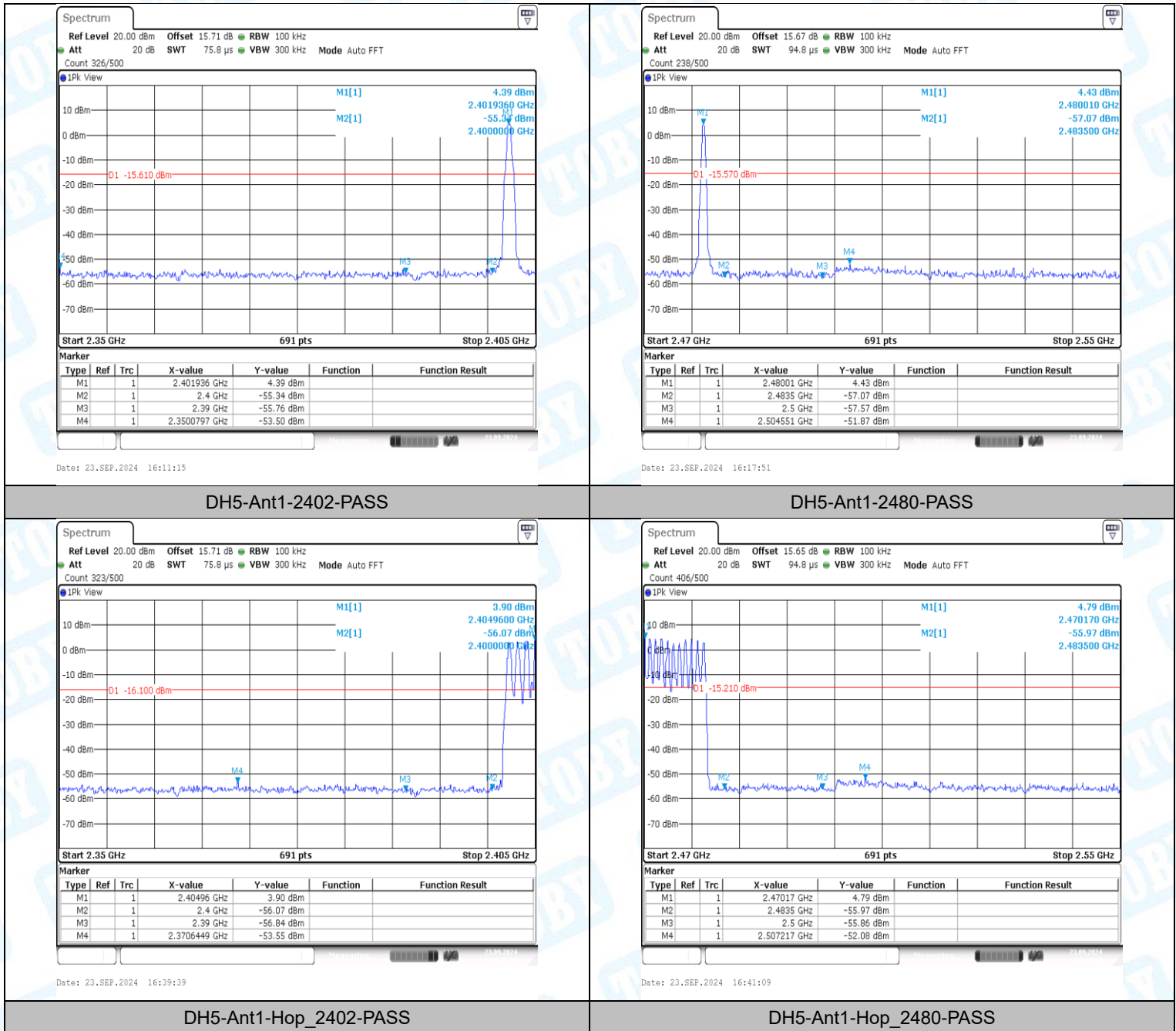


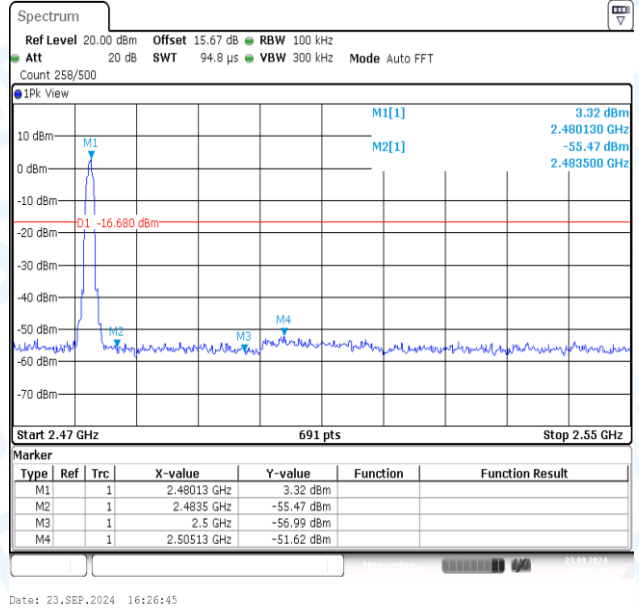
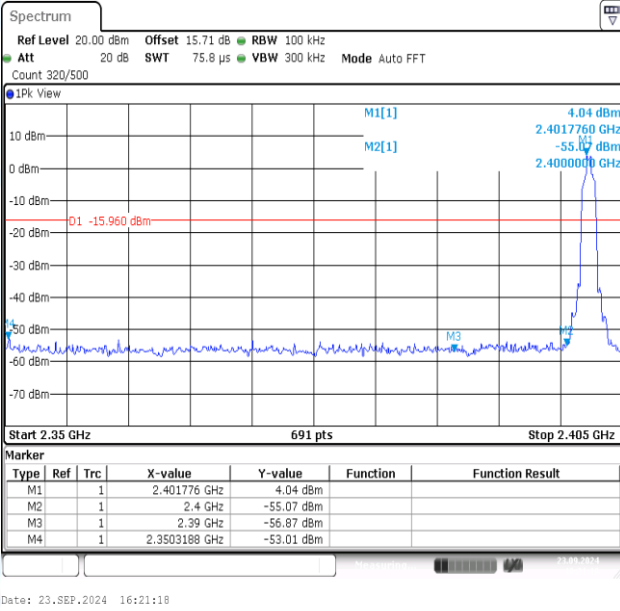
7: Band edge measurements

7.1 Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.39	-53.5	≤-15.61	PASS
DH5	Ant1	High	2480	4.43	-51.87	≤-15.57	PASS
DH5	Ant1	Low	Hop_2402	3.90	-53.55	≤-16.1	PASS
DH5	Ant1	High	Hop_2480	4.79	-52.08	≤-15.21	PASS
2DH5	Ant1	Low	2402	4.04	-53.01	≤-15.96	PASS
2DH5	Ant1	High	2480	3.32	-51.62	≤-16.68	PASS
2DH5	Ant1	Low	Hop_2402	0.32	-53.42	≤-19.68	PASS
2DH5	Ant1	High	Hop_2480	1.94	-51.49	≤-18.06	PASS
3DH5	Ant1	Low	2402	3.77	-53.1	≤-16.23	PASS
3DH5	Ant1	High	2480	3.23	-52.67	≤-16.77	PASS
3DH5	Ant1	Low	Hop_2402	0.96	-53.6	≤-19.04	PASS
3DH5	Ant1	High	Hop_2480	-0.64	-52.08	≤-20.64	PASS

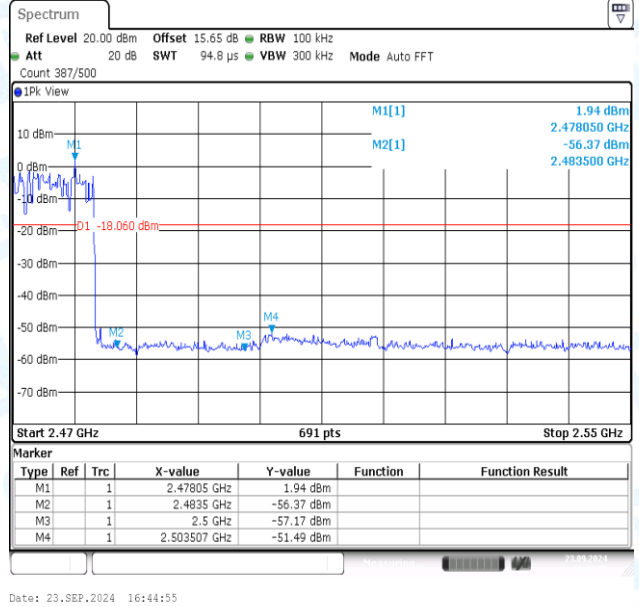
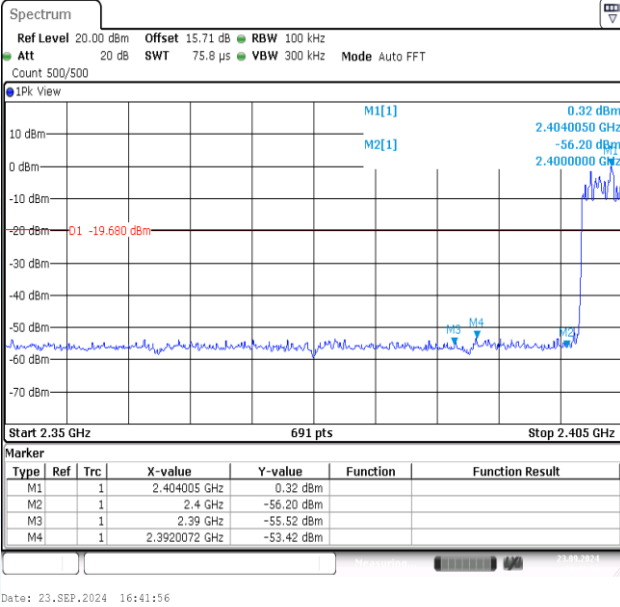
7.2 Test Graphs





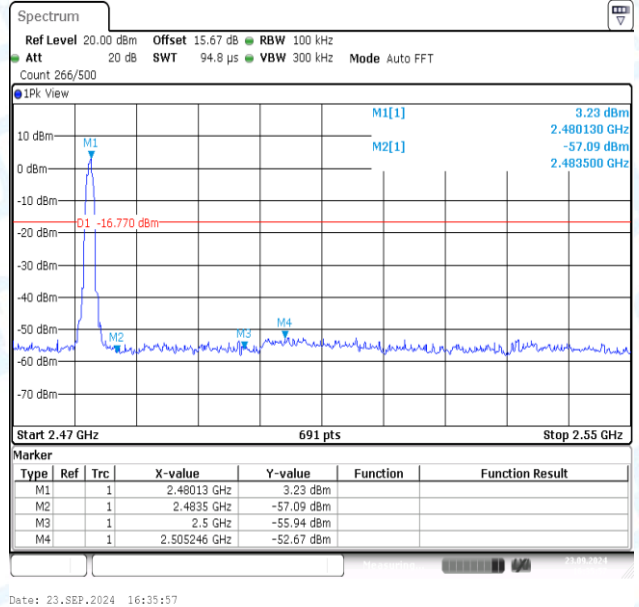
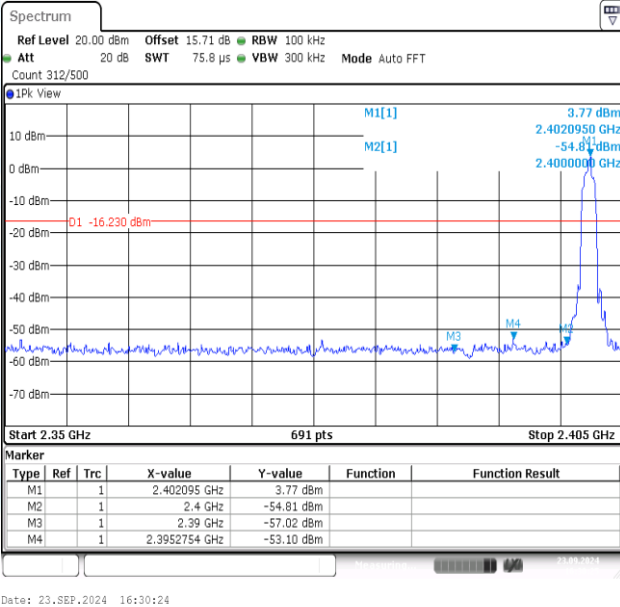
2DH5-Ant1-2402-PASS

2DH5-Ant1-2480-PASS

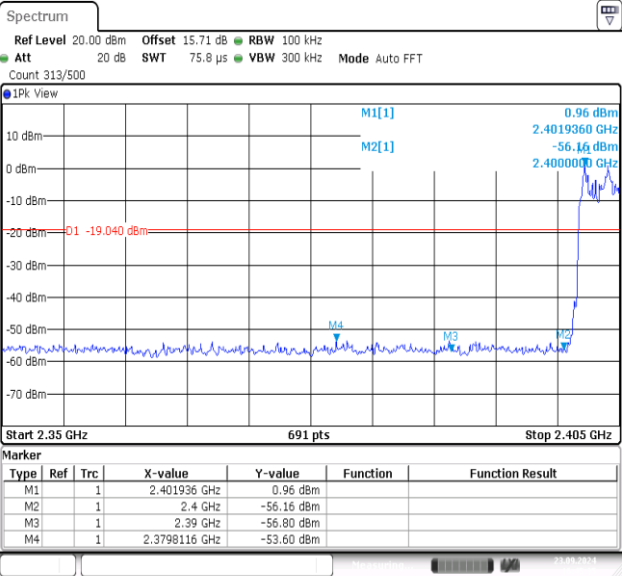


2DH5-Ant1-Hop_2402-PASS

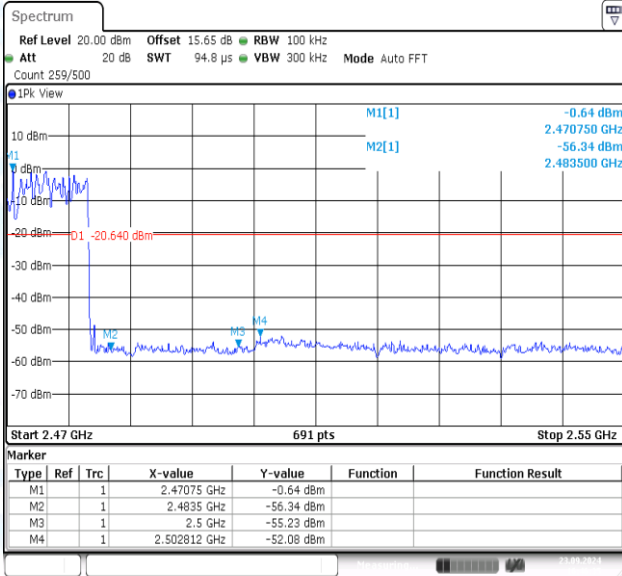
2DH5-Ant1-Hop_2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

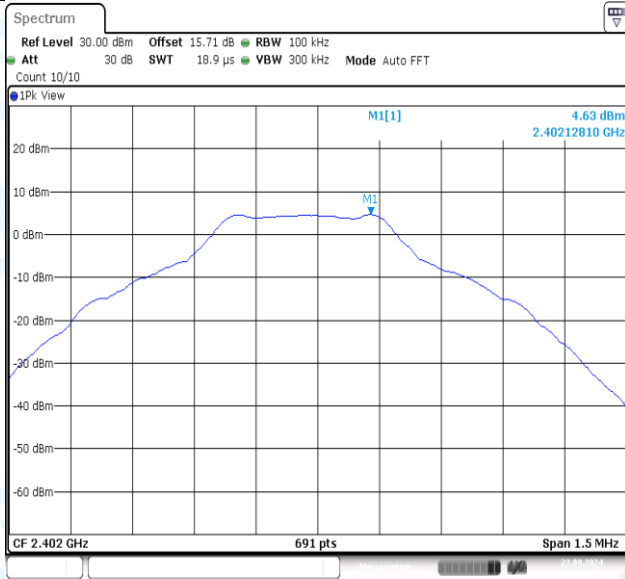
3DH5-Ant1-Hop_2480-PASS

8: Conducted Spurious Emission

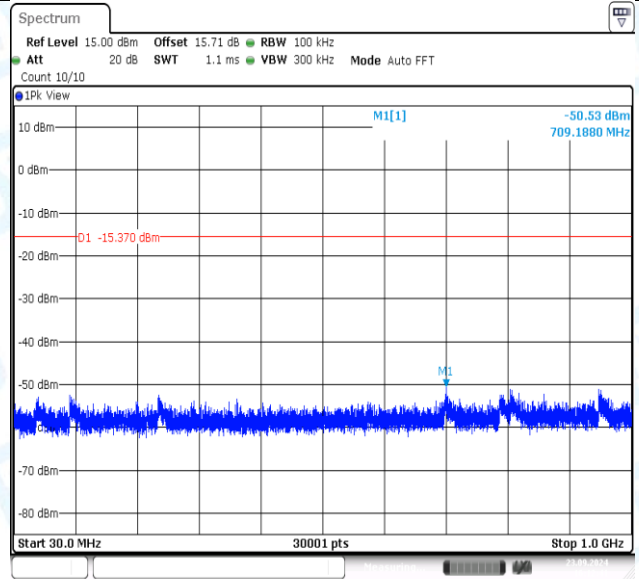
8.1 Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	4.63	4.63	---	PASS
DH5	Ant1	2402	30~1000	4.63	-50.53	≤-15.37	PASS
DH5	Ant1	2402	1000~26500	4.63	-45.72	≤-15.37	PASS
DH5	Ant1	2441	0~Reference	5.50	5.50	---	PASS
DH5	Ant1	2441	30~1000	5.50	-50.48	≤-14.5	PASS
DH5	Ant1	2441	1000~26500	5.50	-45.33	≤-14.5	PASS
DH5	Ant1	2480	0~Reference	4.40	4.40	---	PASS
DH5	Ant1	2480	30~1000	4.40	-49.88	≤-15.6	PASS
DH5	Ant1	2480	1000~26500	4.40	-45.51	≤-15.6	PASS
2DH5	Ant1	2402	0~Reference	3.51	3.51	---	PASS
2DH5	Ant1	2402	30~1000	3.51	-50.2	≤-16.49	PASS
2DH5	Ant1	2402	1000~26500	3.51	-44.85	≤-16.49	PASS
2DH5	Ant1	2441	0~Reference	4.87	4.87	---	PASS
2DH5	Ant1	2441	30~1000	4.87	-51.32	≤-15.13	PASS
2DH5	Ant1	2441	1000~26500	4.87	-45.47	≤-15.13	PASS
2DH5	Ant1	2480	0~Reference	3.84	3.84	---	PASS
2DH5	Ant1	2480	30~1000	3.84	-51.32	≤-16.16	PASS
2DH5	Ant1	2480	1000~26500	3.84	-45.7	≤-16.16	PASS
3DH5	Ant1	2402	0~Reference	3.93	3.93	---	PASS
3DH5	Ant1	2402	30~1000	3.93	-50.58	≤-16.07	PASS
3DH5	Ant1	2402	1000~26500	3.93	-45.48	≤-16.07	PASS
3DH5	Ant1	2441	0~Reference	4.85	4.85	---	PASS
3DH5	Ant1	2441	30~1000	4.85	-51.49	≤-15.15	PASS
3DH5	Ant1	2441	1000~26500	4.85	-45.4	≤-15.15	PASS
3DH5	Ant1	2480	0~Reference	3.78	3.78	---	PASS
3DH5	Ant1	2480	30~1000	3.78	-50.23	≤-16.22	PASS
3DH5	Ant1	2480	1000~26500	3.78	-45.17	≤-16.22	PASS

8.2 Test Graphs



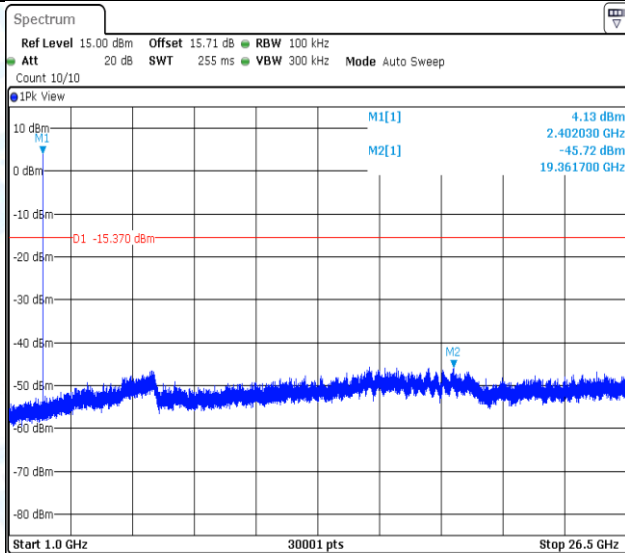
Date: 23.SEP.2024 16:12:27



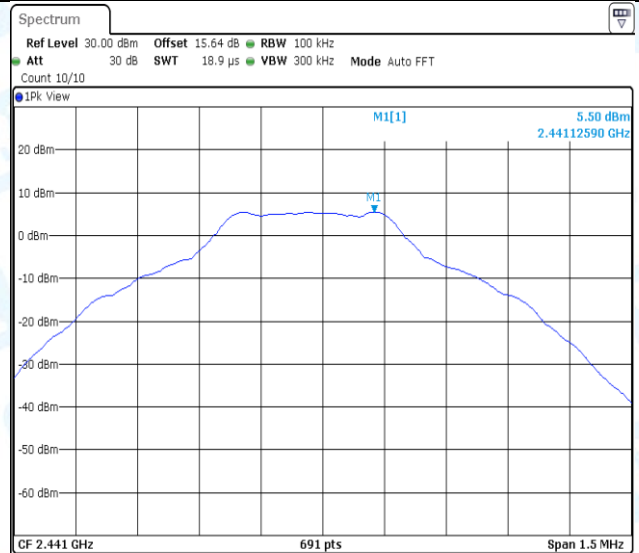
Date: 23.SEP.2024 16:12:42

DH5-Ant1-2402-0~Reference-PASS

DH5-Ant1-2402-30~1000-PASS



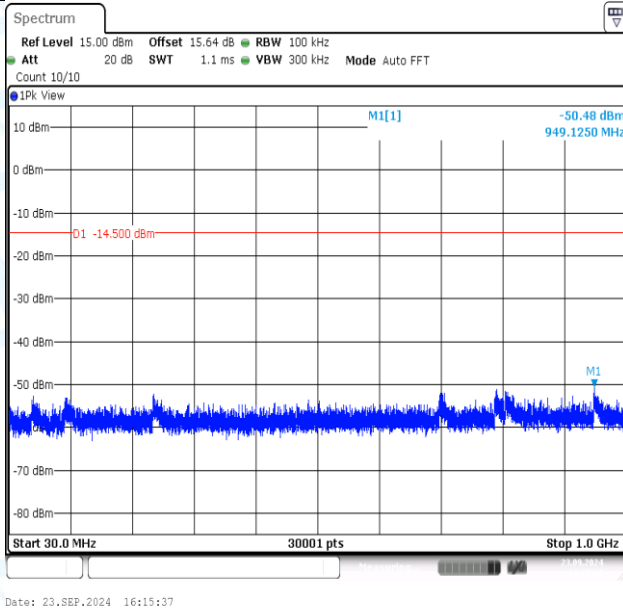
Date: 23.SEP.2024 16:13:12



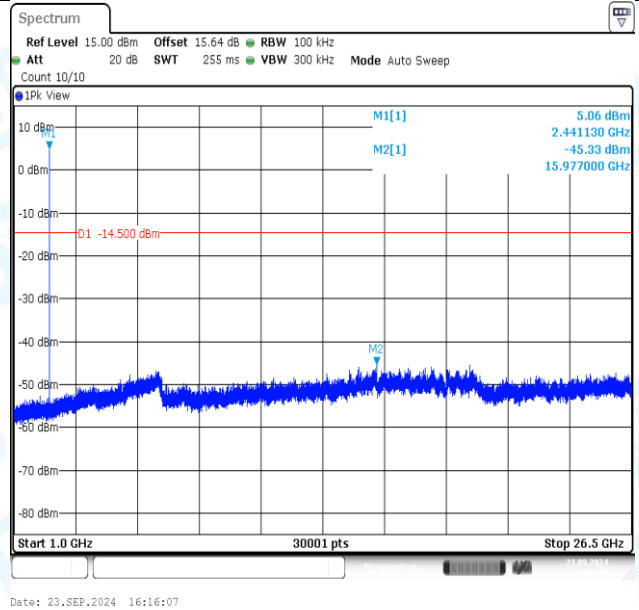
Date: 23.SEP.2024 16:15:22

DH5-Ant1-2402-1000~26500-PASS

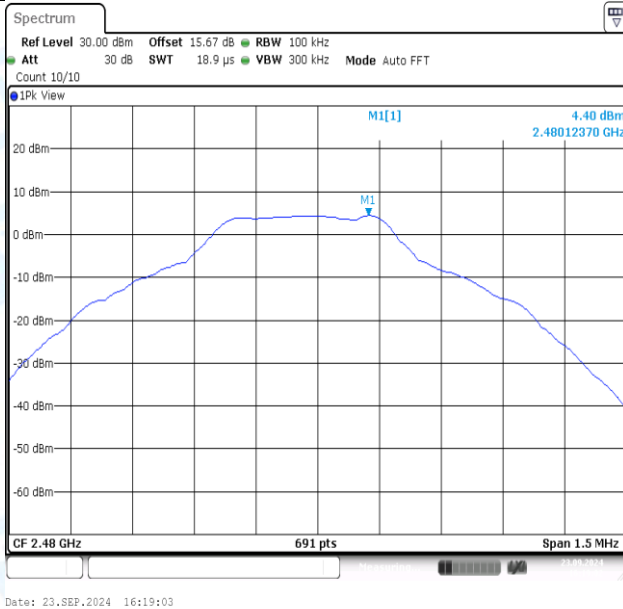
DH5-Ant1-2441-0~Reference-PASS



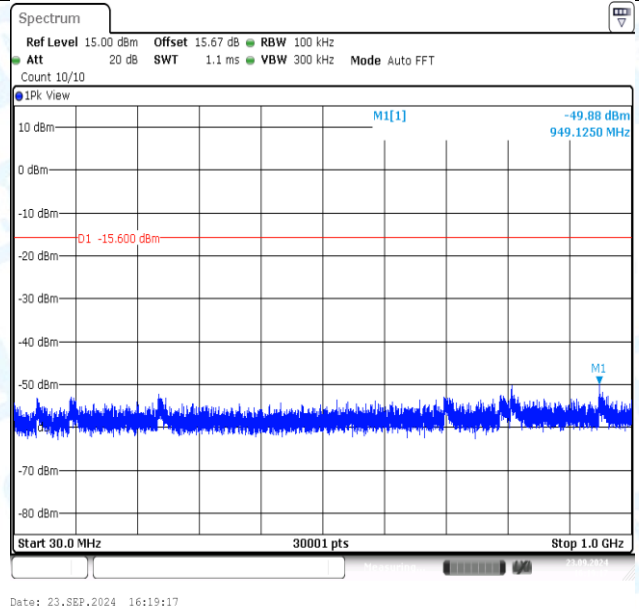
DH5-Ant1-2441-30~1000-PASS



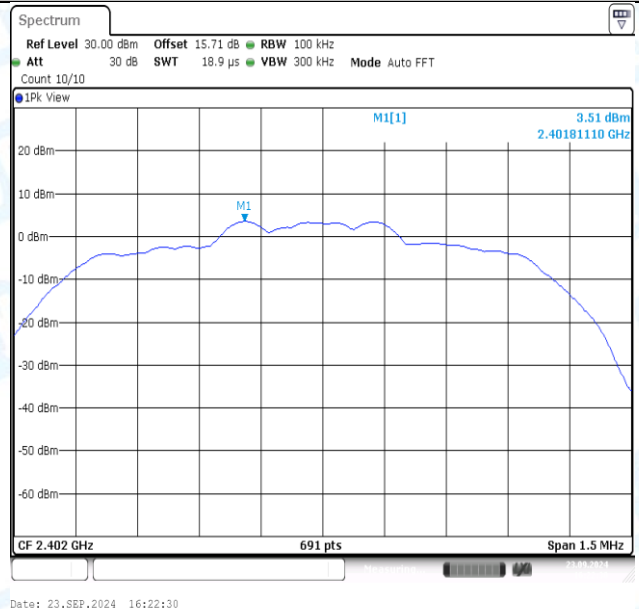
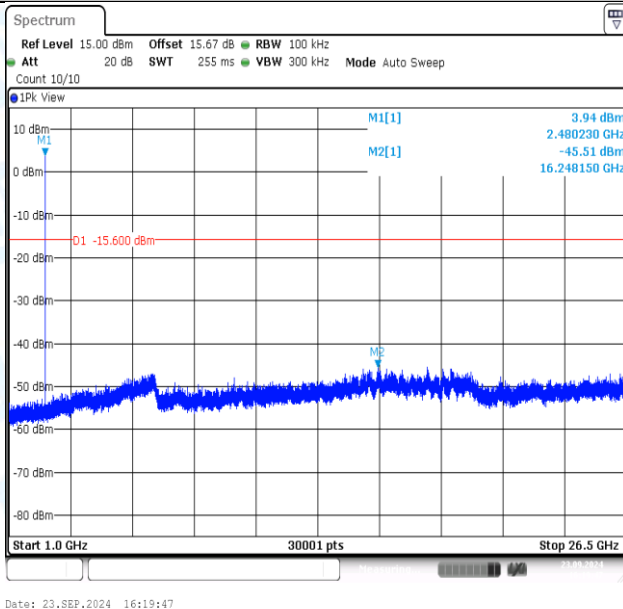
DH5-Ant1-2441-1000~26500-PASS



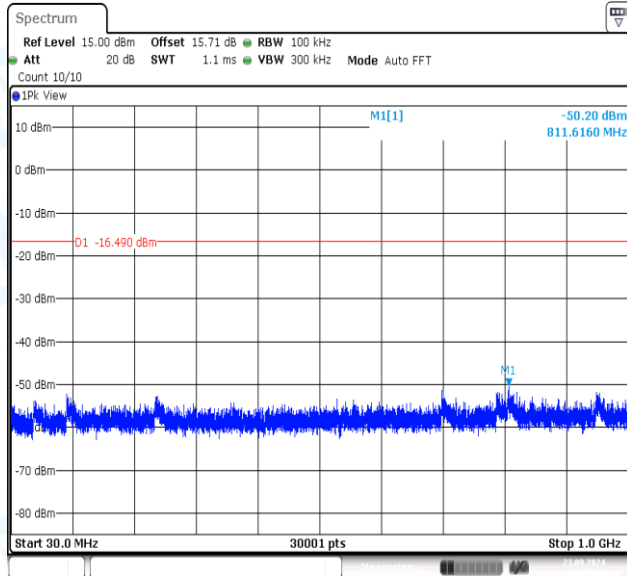
DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS

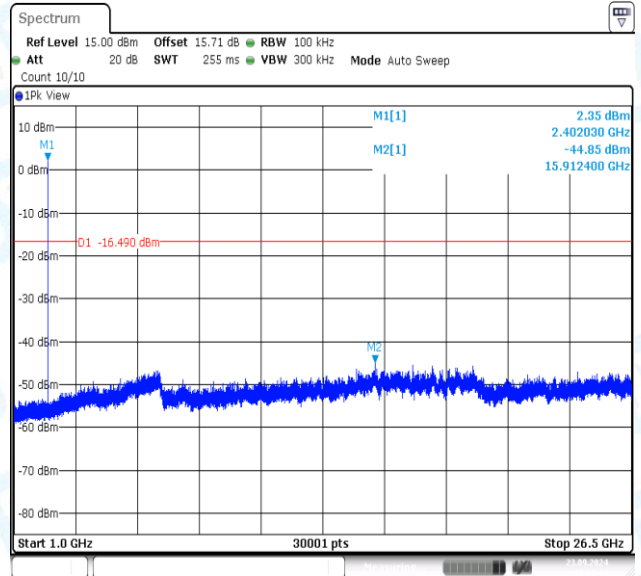


DH5-Ant1-2480-1000~26500-PASS



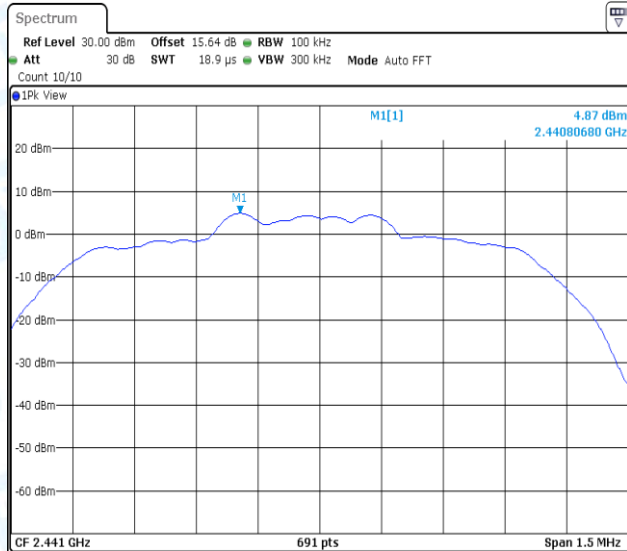
Date: 23.SEP.2024 16:22:44

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



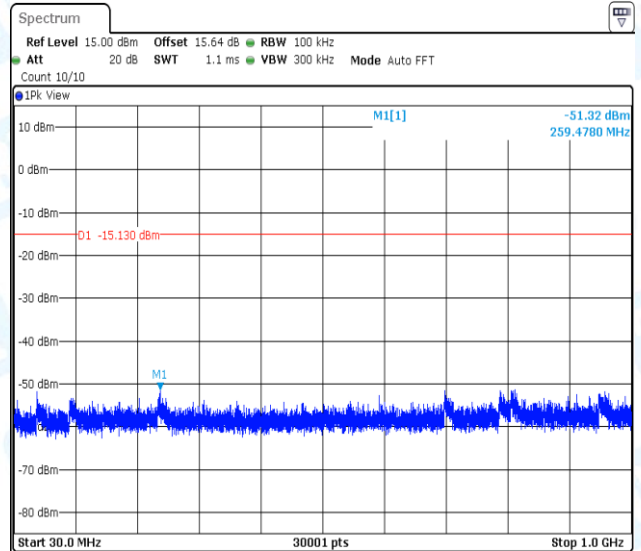
Date: 23.SEP.2024 16:23:14

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



Date: 23.SEP.2024 16:24:40

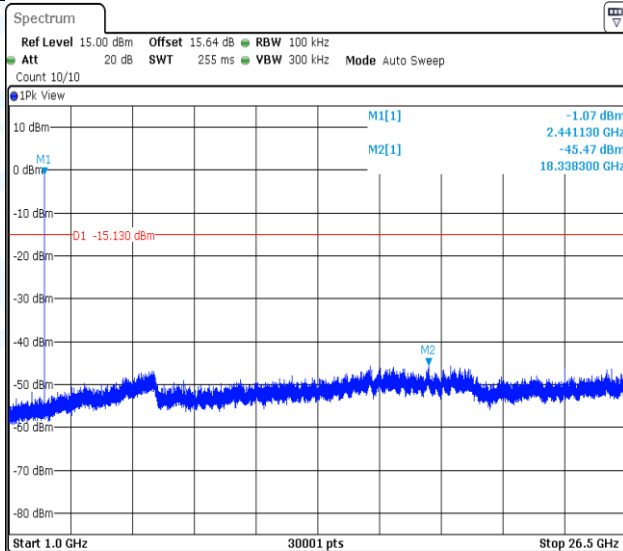
2DH5-Ant1-2402-1000~26500-PASS



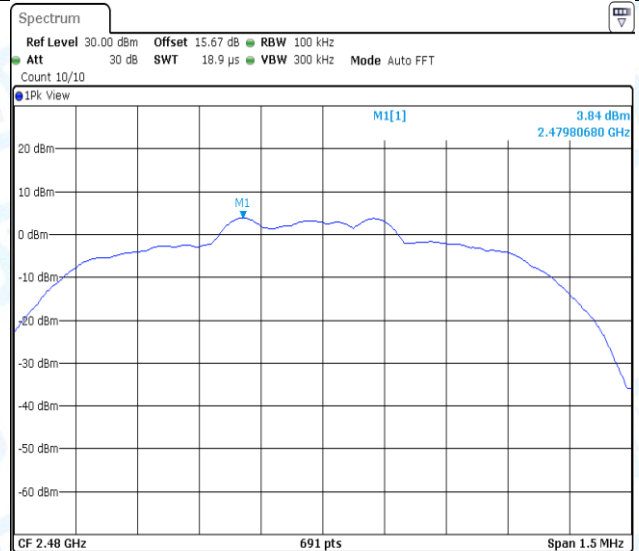
Date: 23.SEP.2024 16:24:54

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

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



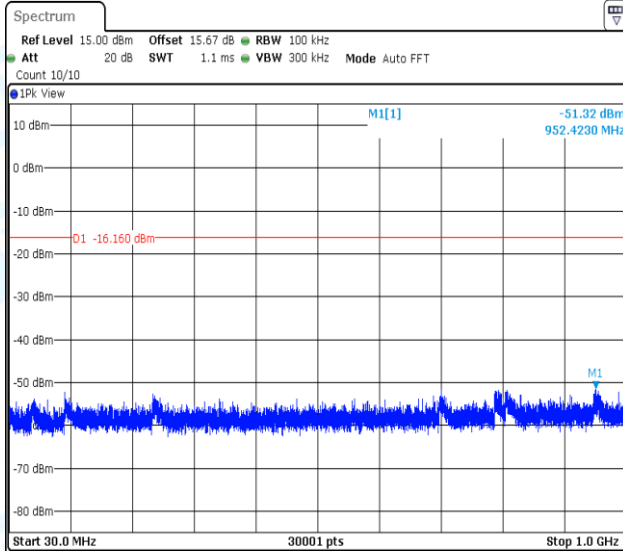
Date: 23.SEP.2024 16:25:24



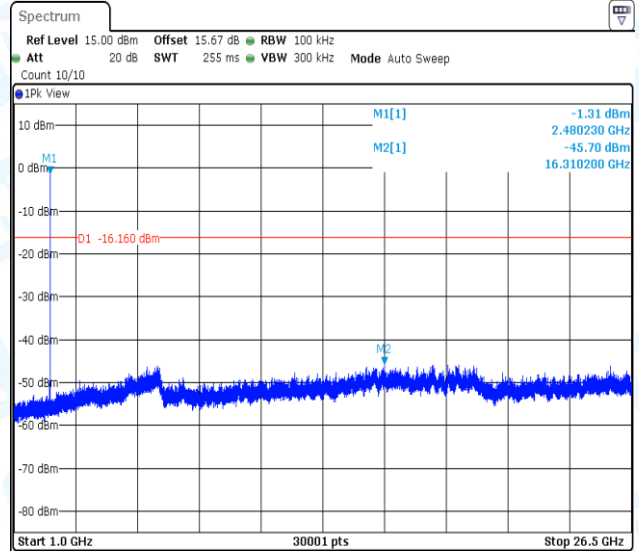
Date: 23.SEP.2024 16:27:57

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

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



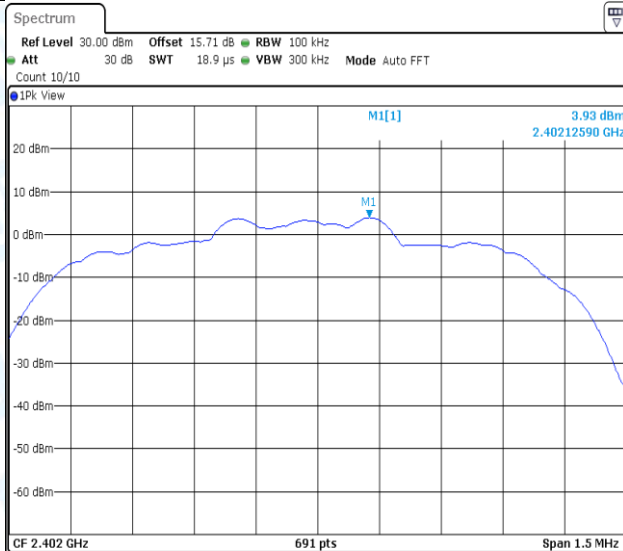
Date: 23.SEP.2024 16:28:11



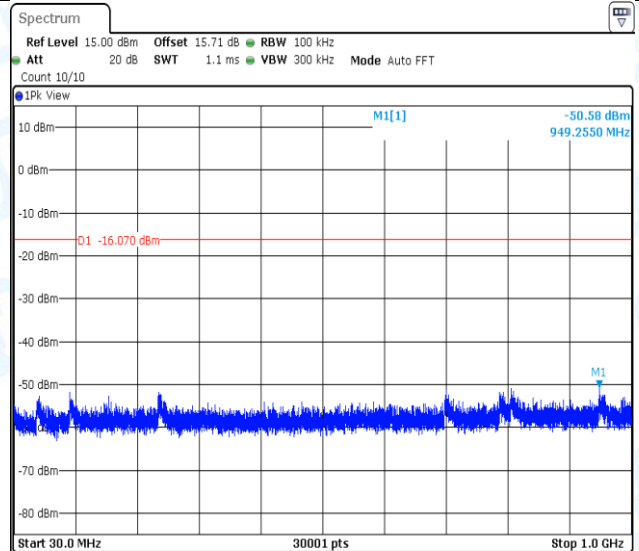
Date: 23.SEP.2024 16:28:41

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

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

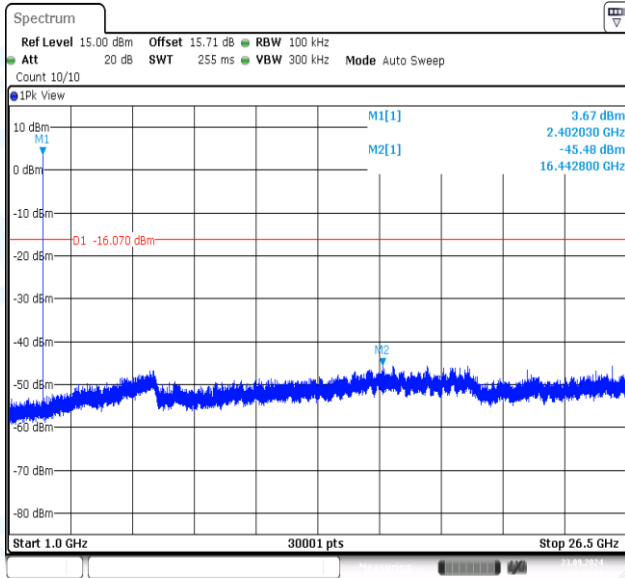


Date: 23.SEP.2024 16:31:36

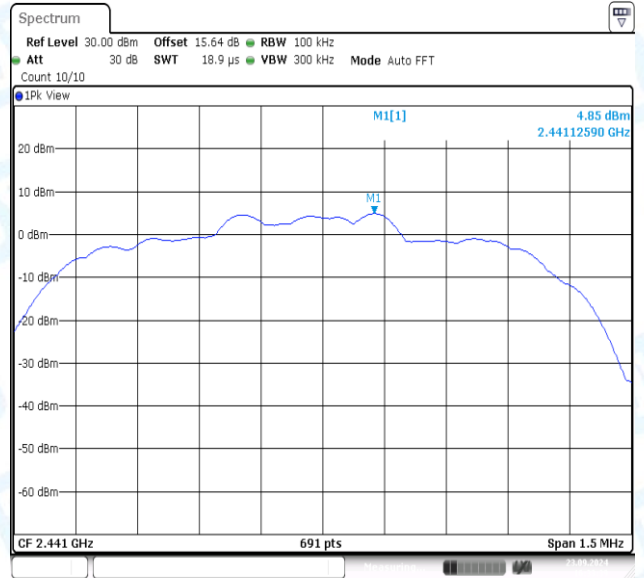


Date: 23.SEP.2024 16:31:51

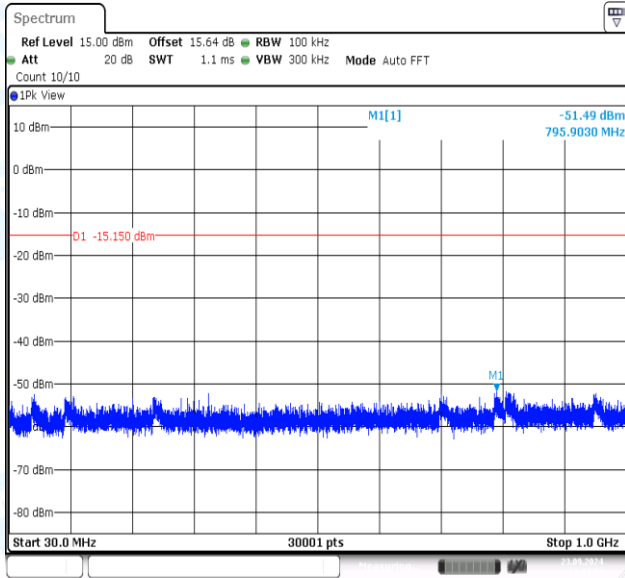
3DH5-Ant1-2402-0~Reference-PASS



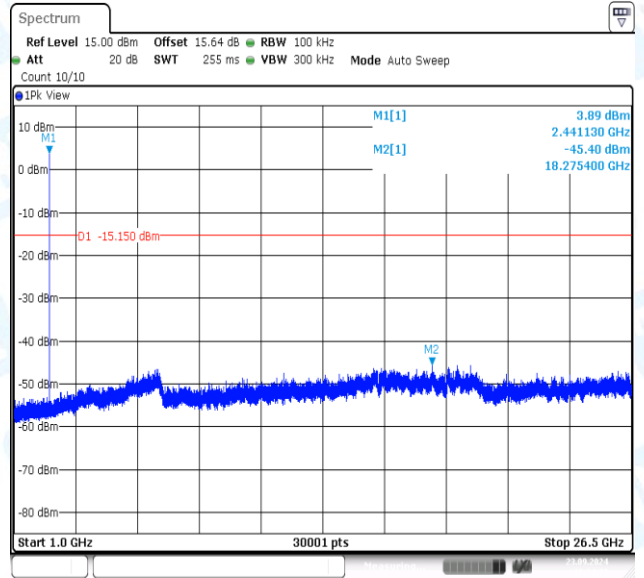
3DH5-Ant1-2402-30~1000-PASS



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

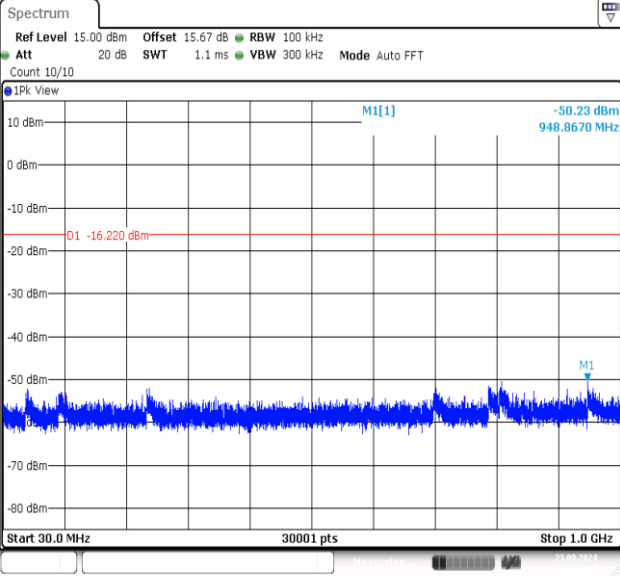
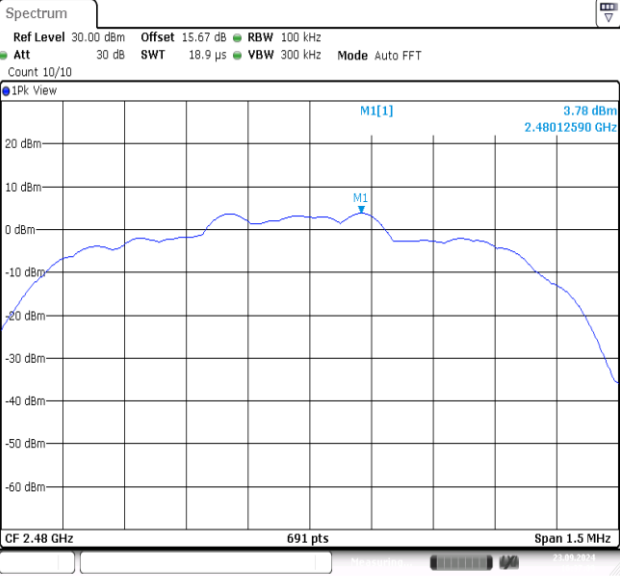


3DH5-Ant1-2441-0~Reference-PASS



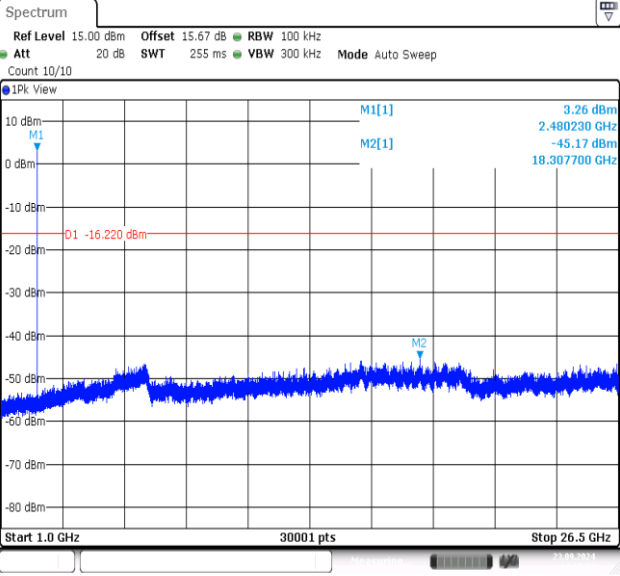
3DH5-Ant1-2441-30~1000-PASS

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



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

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



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

9: Duty Cycle

9.1 Test Result

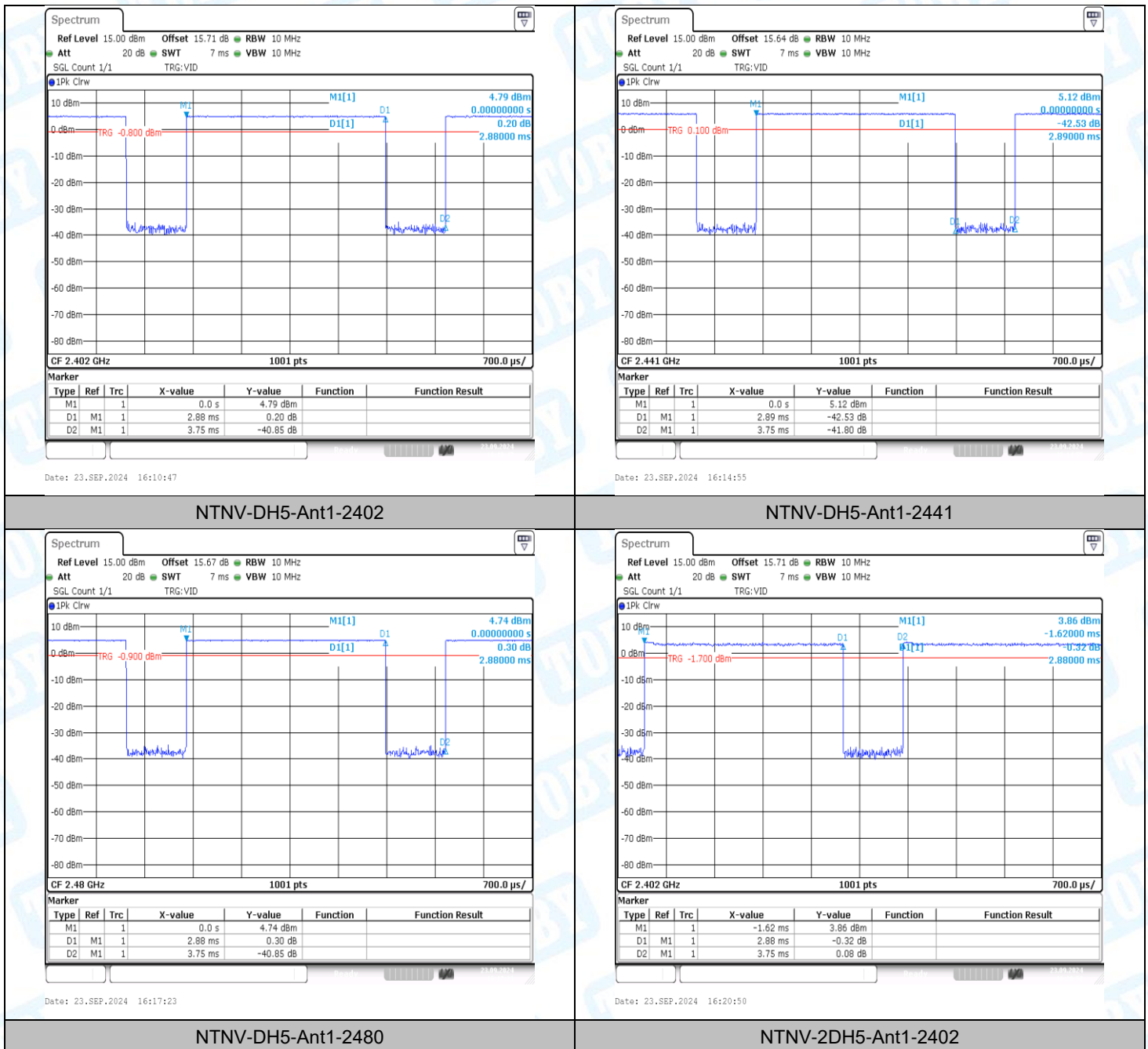
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
DH5	Ant1	2441	2.89	3.75	77.07	1.13	0.35
DH5	Ant1	2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
2DH5	Ant1	2441	2.89	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	2.88	3.74	77.01	1.13	0.35

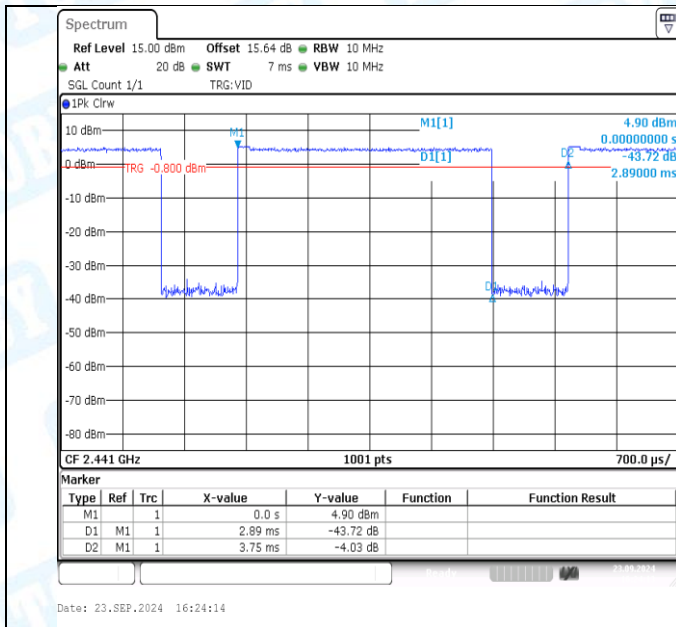
Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factory=10*Log₁₀(1/Duty Cycle)

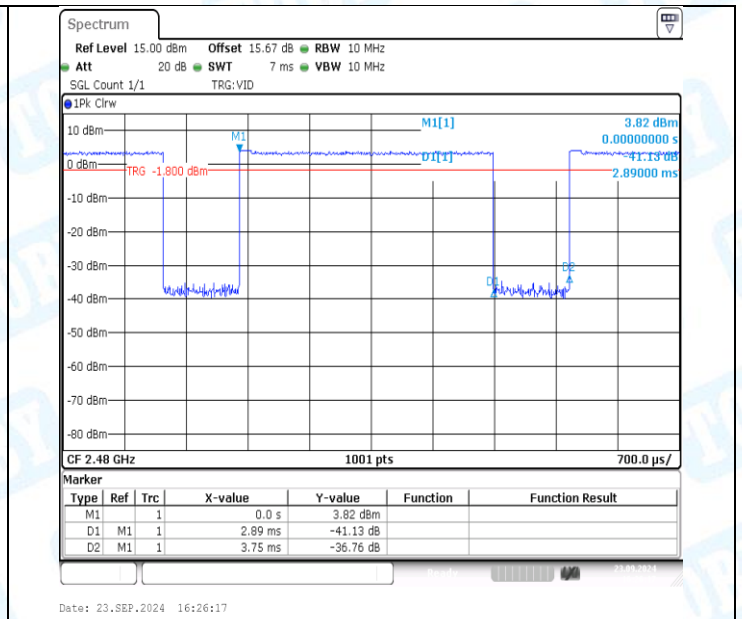
3, 1/T=1/ Transmission Duration

9.2 Test Graphs

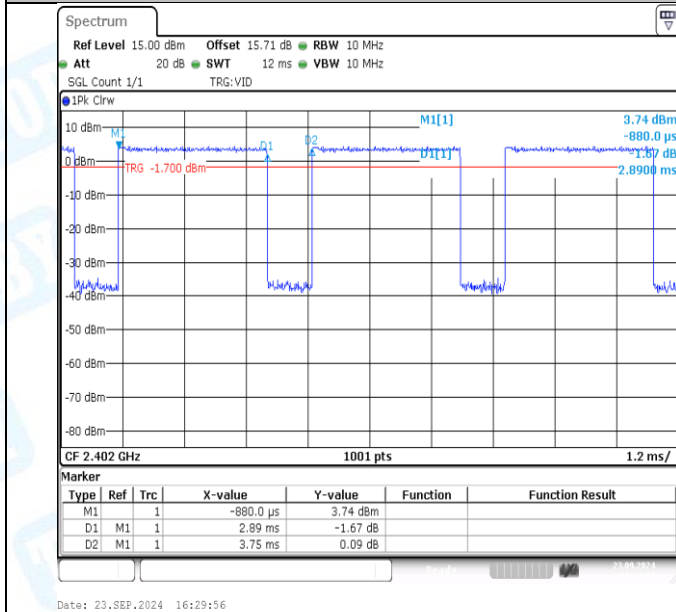




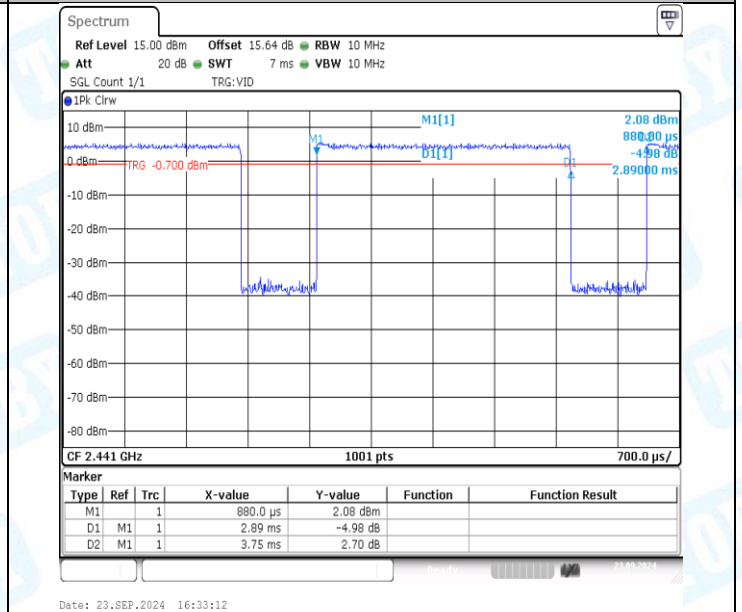
NTNV-2DH5-Ant1-2441



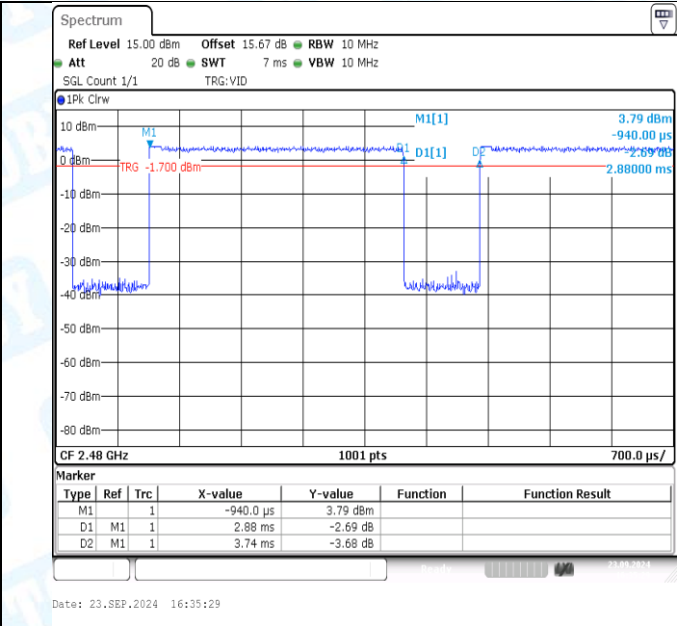
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

10: Emissions in Restricted Bands

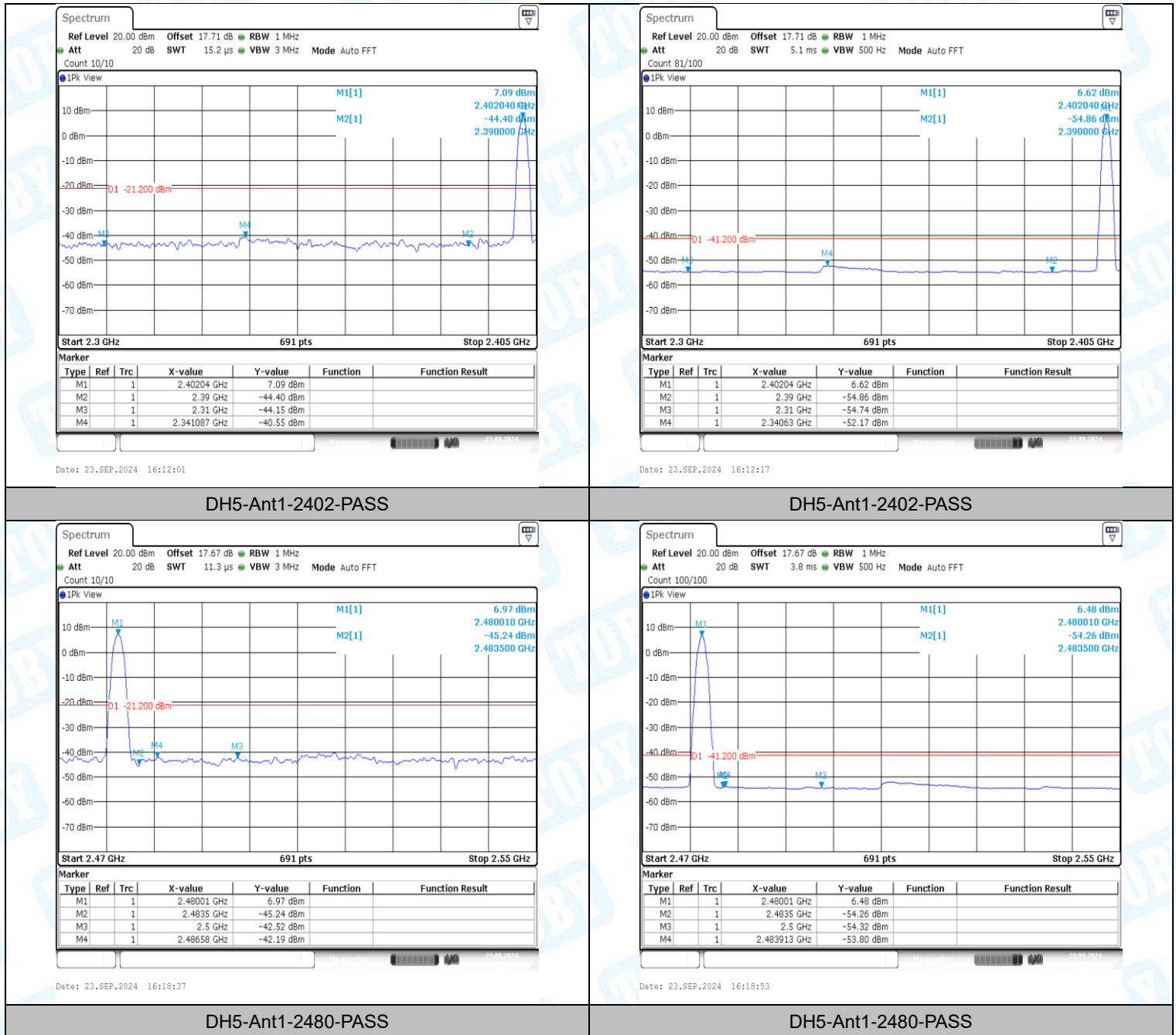
10.1 Test Result

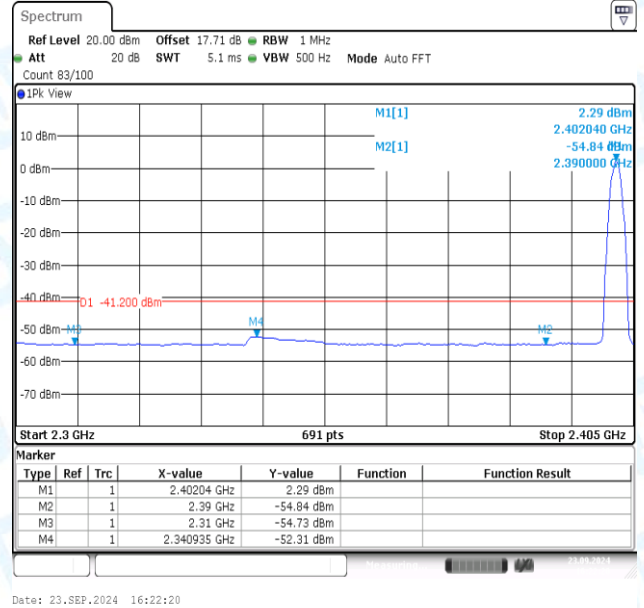
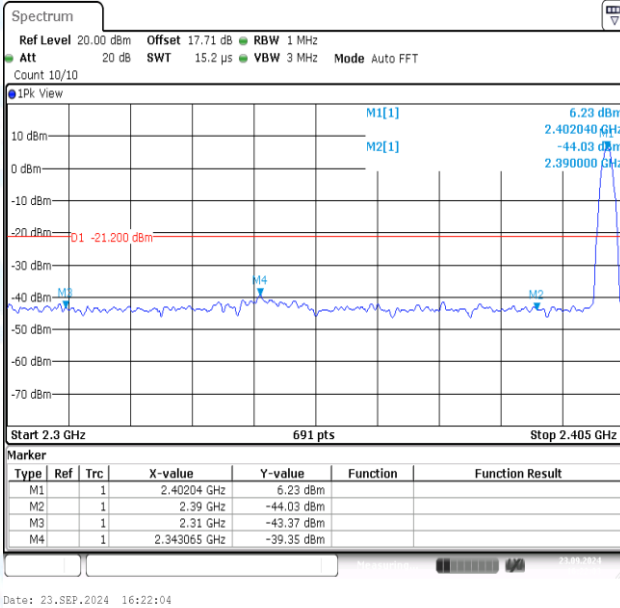
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-44.4	≤-21.20	50.80	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-44.15	≤-21.20	51.05	≤74	PASS
DH5	Ant1	Low	2402	Peak	2341.087	-40.55	≤-21.20	54.65	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-54.86	≤-41.20	40.34	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-54.74	≤-41.20	40.46	≤54	PASS
DH5	Ant1	Low	2402	AV	2340.630	-52.17	≤-41.20	43.03	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-45.24	≤-21.20	49.96	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-42.52	≤-21.20	52.68	≤74	PASS
DH5	Ant1	High	2480	Peak	2486.580	-42.19	≤-21.20	53.01	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-54.26	≤-41.20	40.94	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-54.32	≤-41.20	40.88	≤54	PASS
DH5	Ant1	High	2480	AV	2483.913	-53.8	≤-41.20	41.40	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-44.03	≤-21.20	51.17	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-43.37	≤-21.20	51.83	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2343.065	-39.35	≤-21.20	55.85	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-54.84	≤-41.20	40.36	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-54.73	≤-41.20	40.47	≤54	PASS
2DH5	Ant1	Low	2402	AV	2340.935	-52.31	≤-41.20	42.89	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-45.1	≤-21.20	50.10	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-42.76	≤-21.20	52.44	≤74	PASS
2DH5	Ant1	High	2480	Peak	2491.217	-41.56	≤-21.20	53.64	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-54.27	≤-41.20	40.93	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-54.51	≤-41.20	40.69	≤54	PASS
2DH5	Ant1	High	2480	AV	2498.638	-53.99	≤-41.20	41.21	≤54	PASS
3DH5	Ant1	Low	2402	Peak	2390.000	-43.55	≤-21.20	51.65	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-44.44	≤-21.20	50.76	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2344.130	-40.48	≤-21.20	54.72	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-54.79	≤-41.20	40.41	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-54.62	≤-41.20	40.58	≤54	PASS
3DH5	Ant1	Low	2402	AV	2340.783	-52.22	≤-41.20	42.98	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-45.72	≤-21.20	49.48	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-43.21	≤-21.20	51.99	≤74	PASS
3DH5	Ant1	High	2480	Peak	2493.536	-42.23	≤-21.20	52.97	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-54.28	≤-41.20	40.92	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-54.44	≤-41.20	40.76	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.913	-53.95	≤-41.20	41.25	≤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.

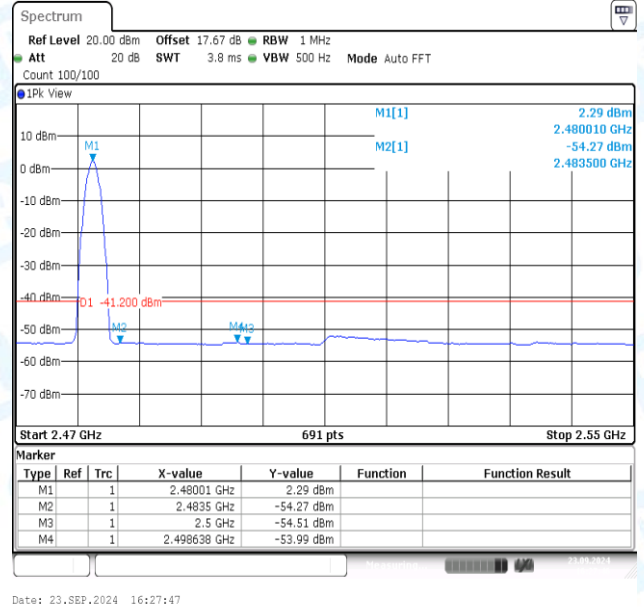
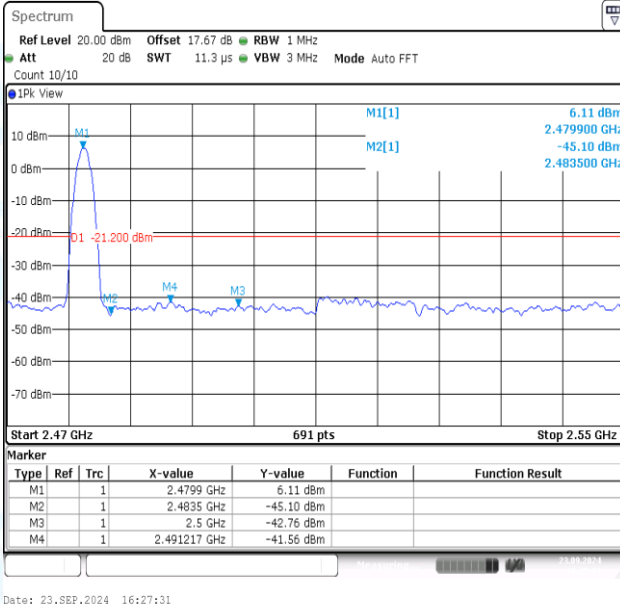
10.2 Test Graphs





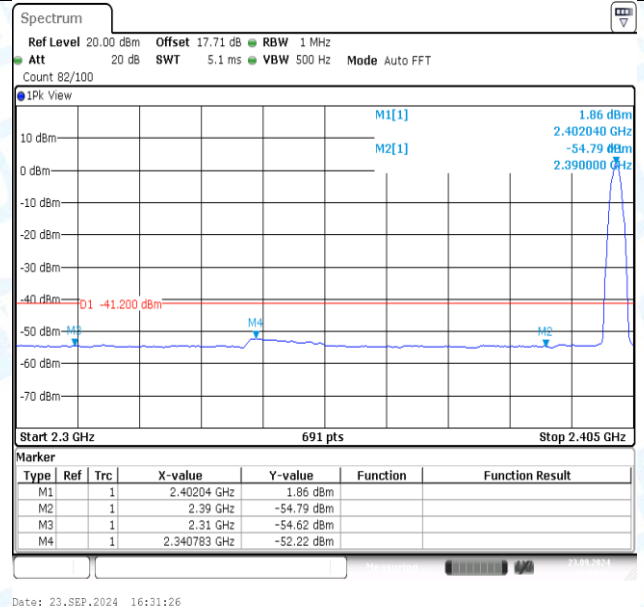
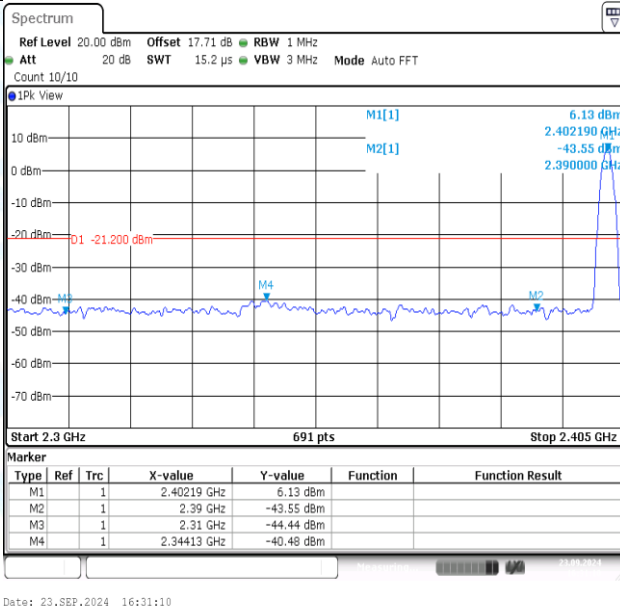
2DH5-Ant1-2402-PASS

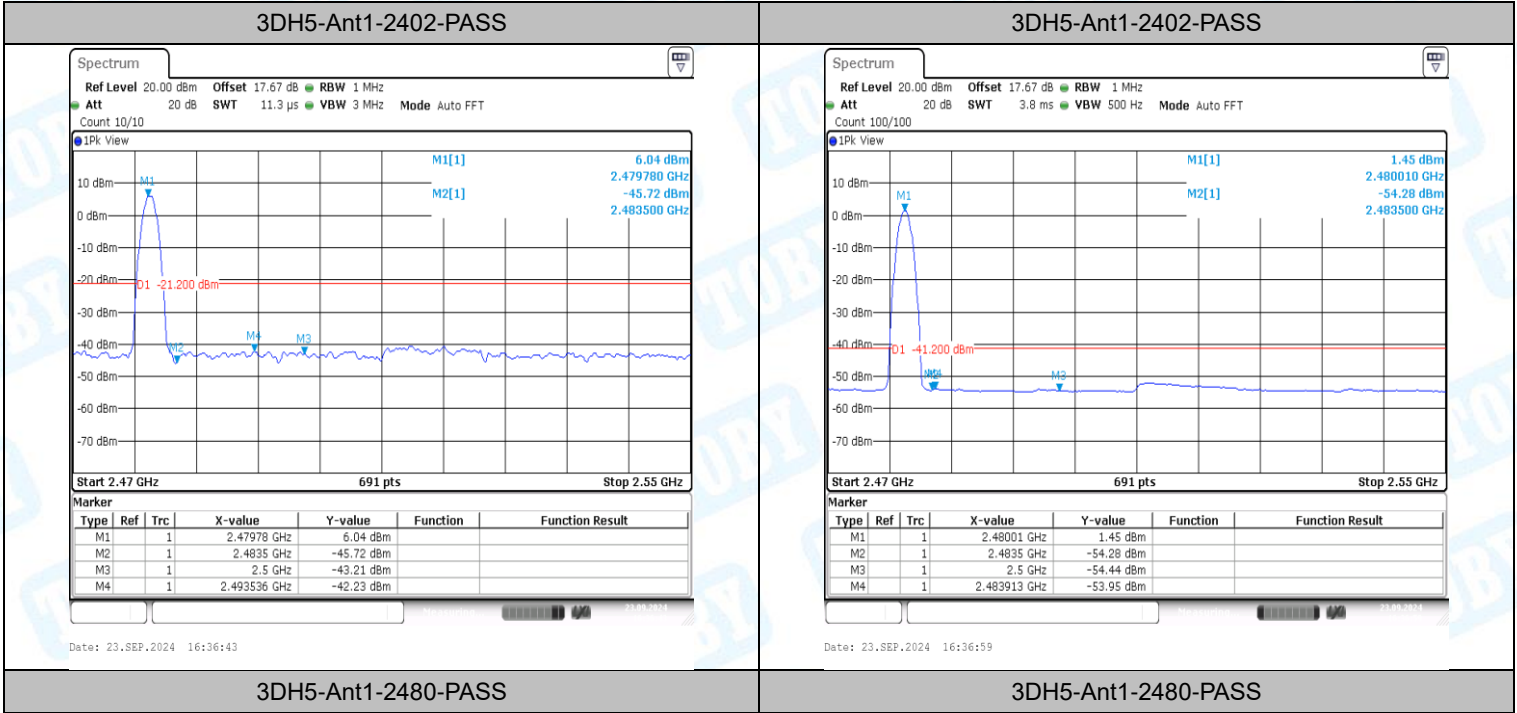
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS

2DH5-Ant1-2480-PASS





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