

FCC Appendix RF Test Data for BT

FCC ID : 2AOMX-E-B9

Company : QFX Inc.

EUT : Speaker

Model Number : E-B9

Report No. : CTA26060300401

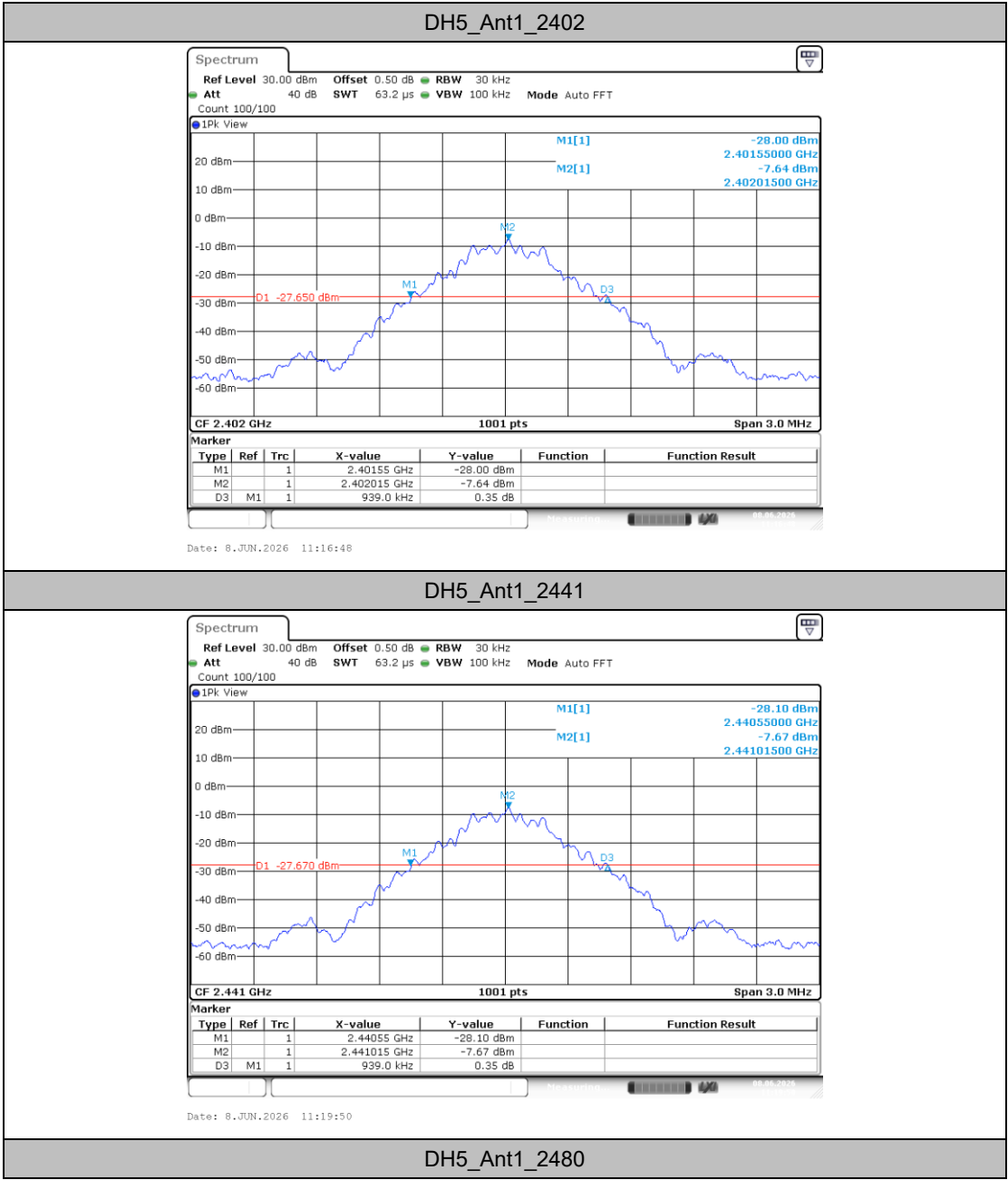
Reviewed By : Eric Wang

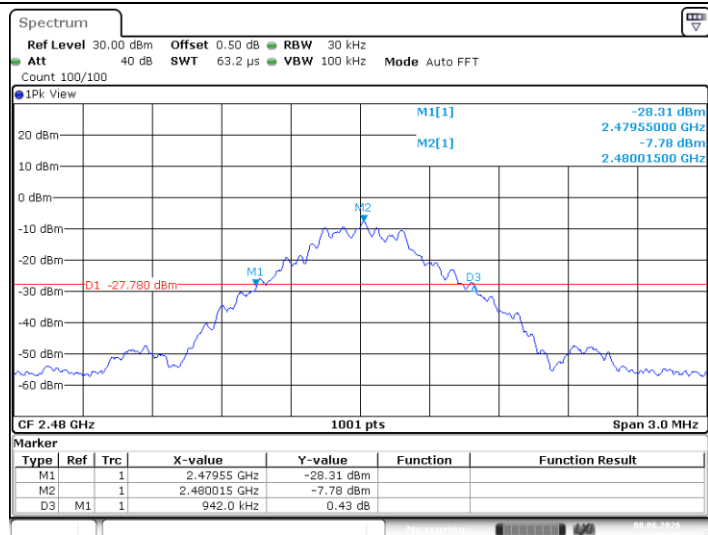
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.94	2401.55	2402.49	---	---
		2441	0.94	2440.55	2441.49	---	---
		2480	0.94	2479.55	2480.49	---	---
2DH5	Ant1	2402	1.29	2401.38	2402.67	---	---
		2441	1.28	2440.38	2441.67	---	---
		2480	1.29	2479.38	2480.67	---	---
3DH5	Ant1	2402	1.29	2401.36	2402.66	---	---
		2441	1.30	2440.36	2441.66	---	---
		2480	1.28	2479.37	2480.65	---	---

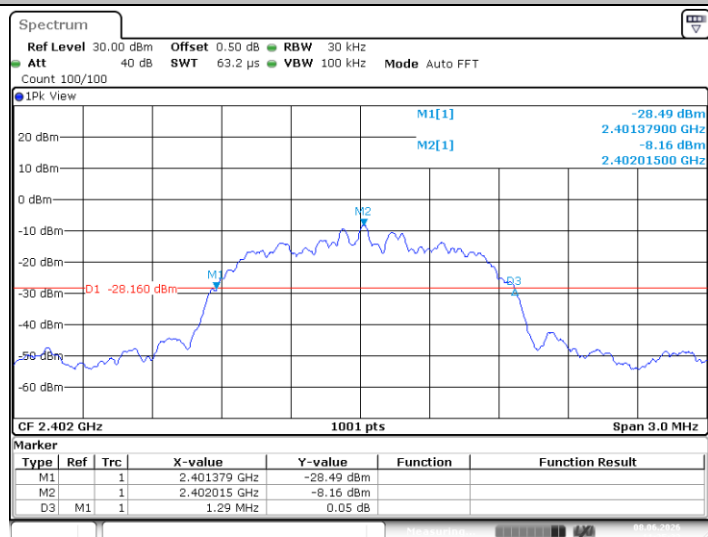
Test Graphs





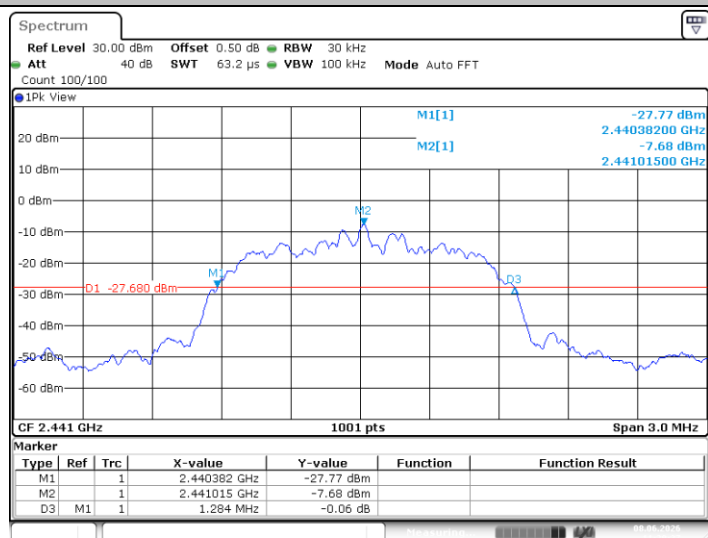
Date: 8.JUN.2026 11:22:16

2DH5_Ant1_2402



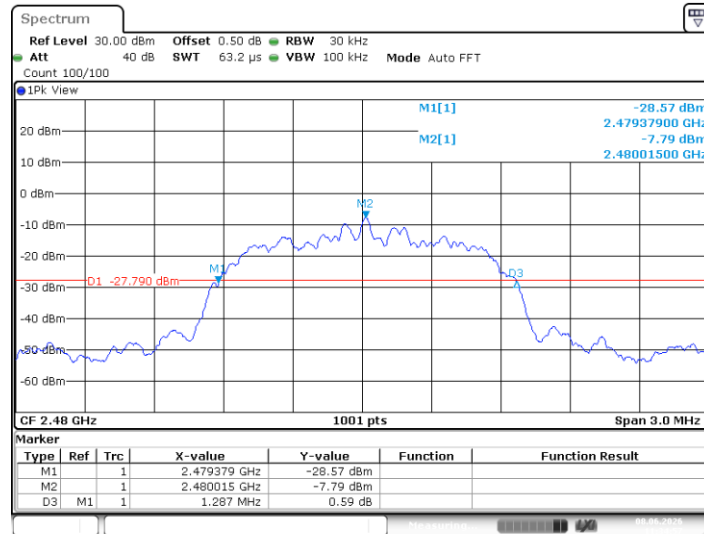
Date: 8.JUN.2026 11:25:32

2DH5_Ant1_2441



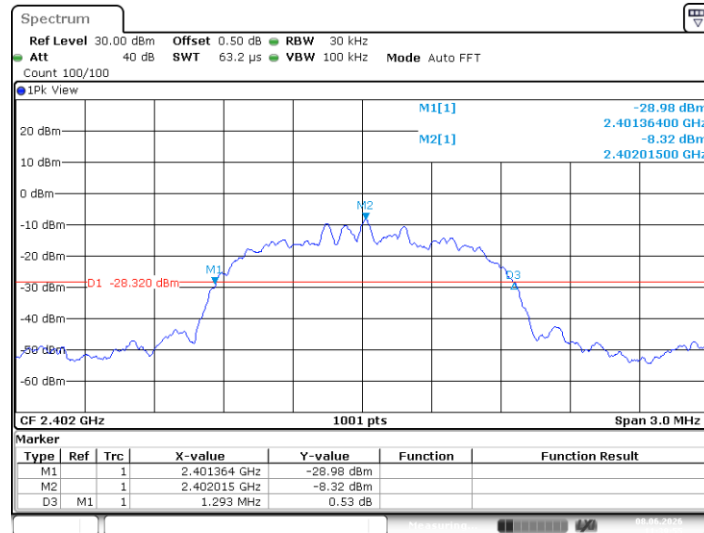
Date: 8.JUN.2026 11:30:37

2DH5_Ant1_2480



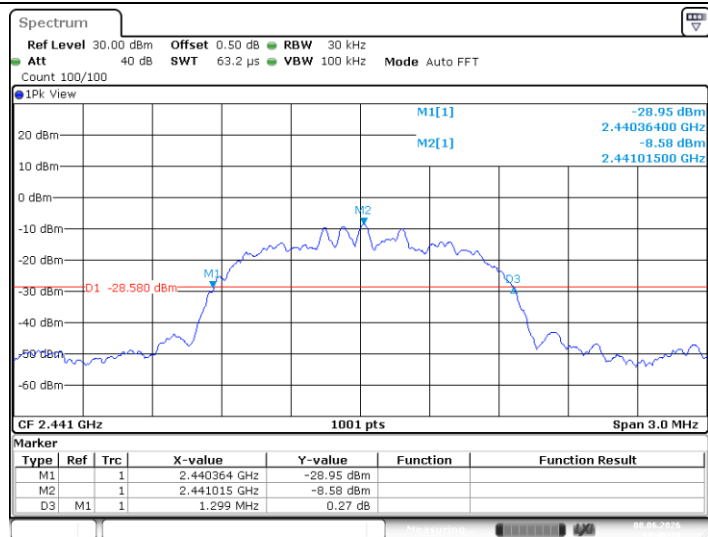
Date: 8.JUN.2026 11:34:57

3DH5_Ant1_2402



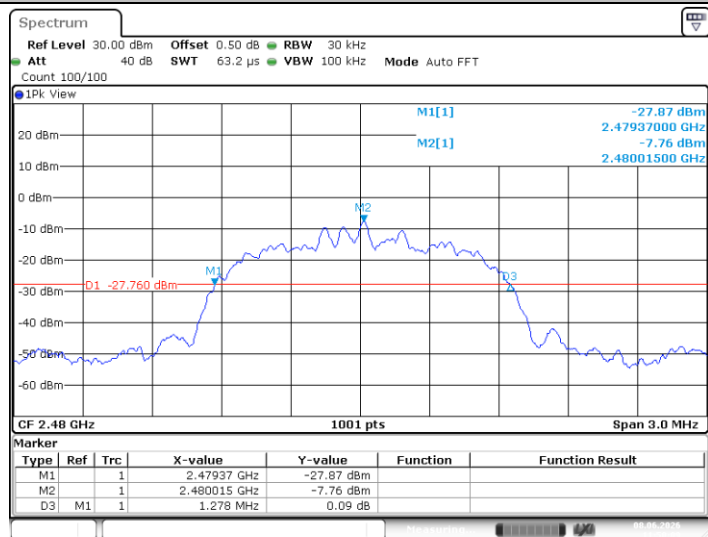
Date: 8.JUN.2026 11:39:56

3DH5_Ant1_2441



Date: 8.JUN.2026 11:48:19

3DH5_Ant1_2480



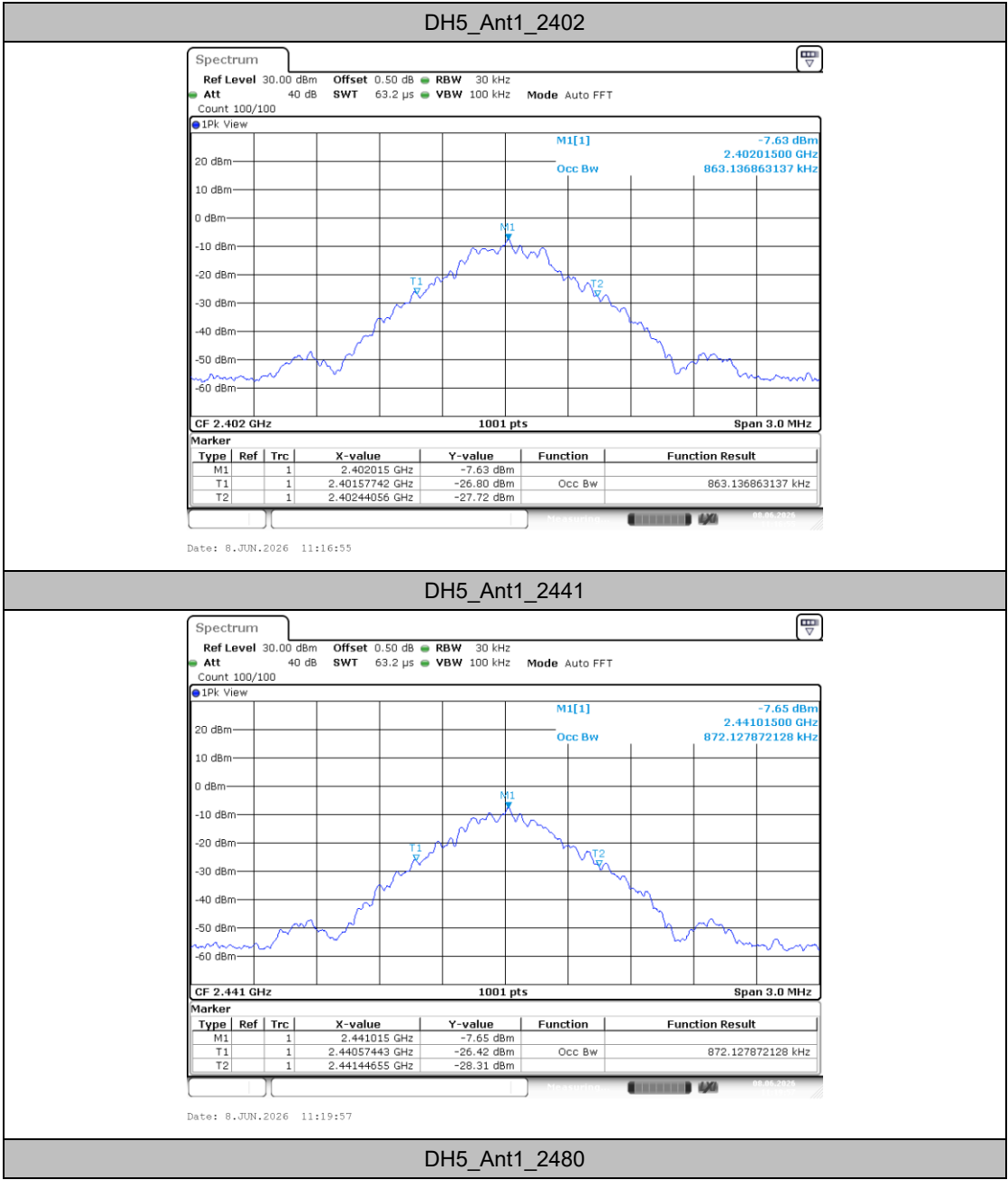
Date: 8.JUN.2026 11:50:08

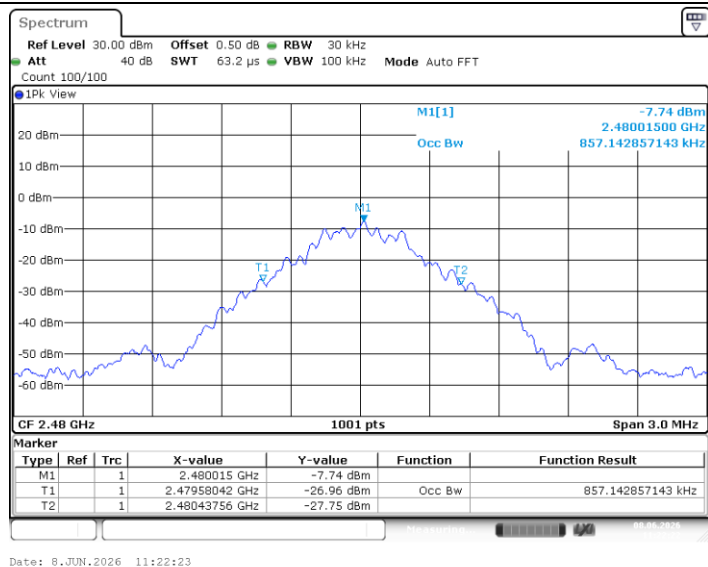
Appendix B: Occupied Channel Bandwidth

Test Result

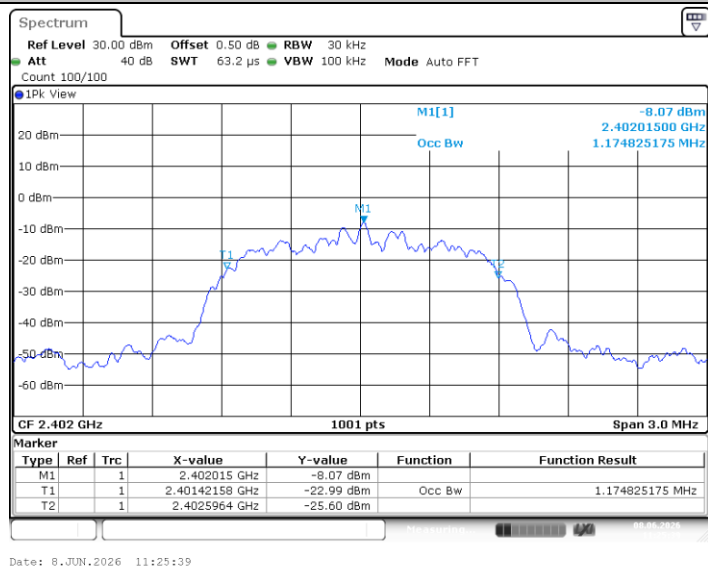
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86314	2401.5774	2402.4406	---	---
		2441	0.87213	2440.5744	2441.4466	---	---
		2480	0.85714	2479.5804	2480.4376	---	---
2DH5	Ant1	2402	1.1748	2401.4216	2402.5964	---	---
		2441	1.1718	2440.4246	2441.5964	---	---
		2480	1.1748	2479.4246	2480.5994	---	---
3DH5	Ant1	2402	1.1718	2401.4276	2402.5994	---	---
		2441	1.1718	2440.4276	2441.5994	---	---
		2480	1.1718	2479.4276	2480.5994	---	---

Test Graphs

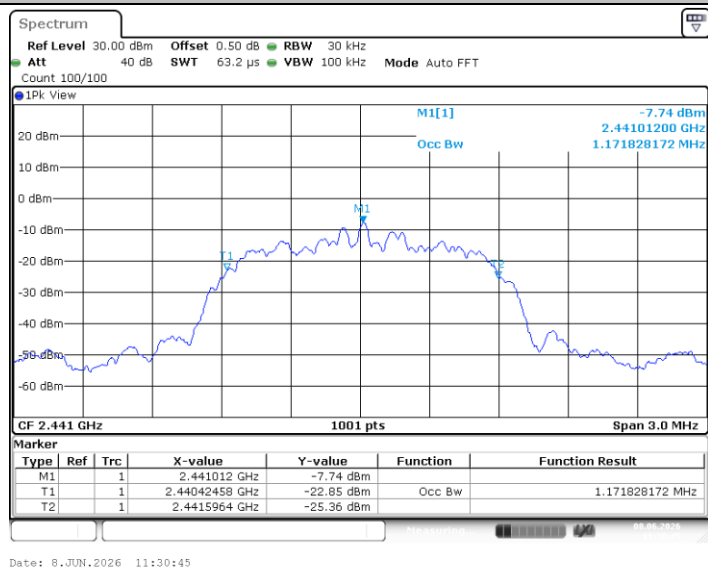




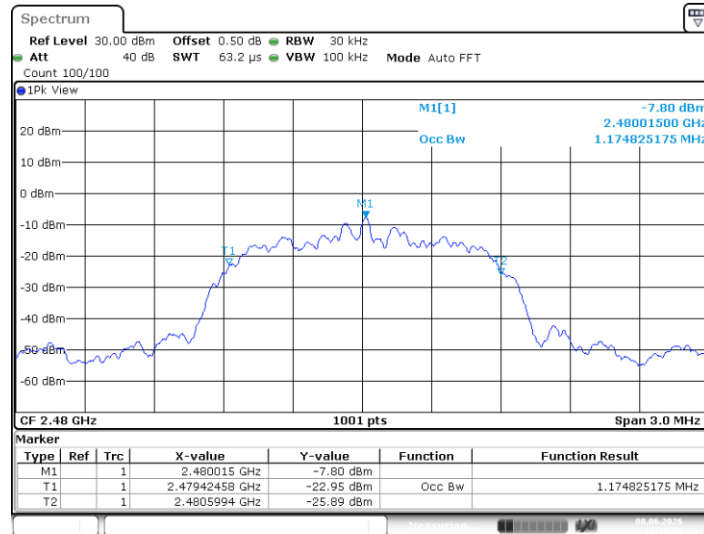
2DH5_Ant1_2402



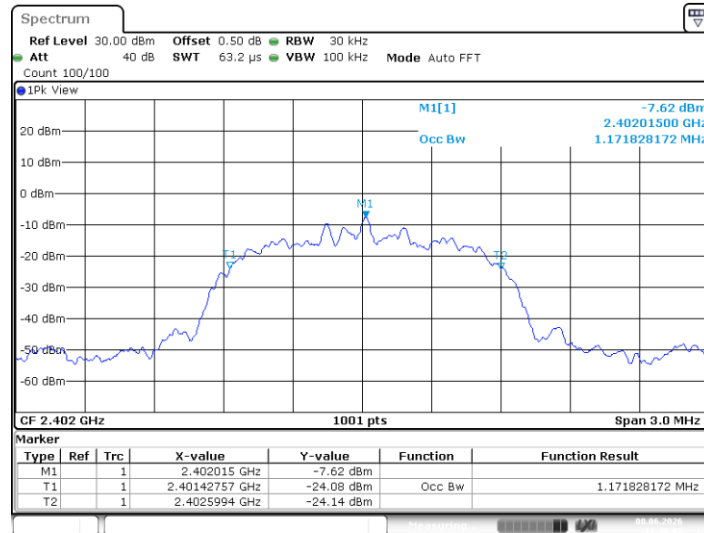
2DH5_Ant1_2441



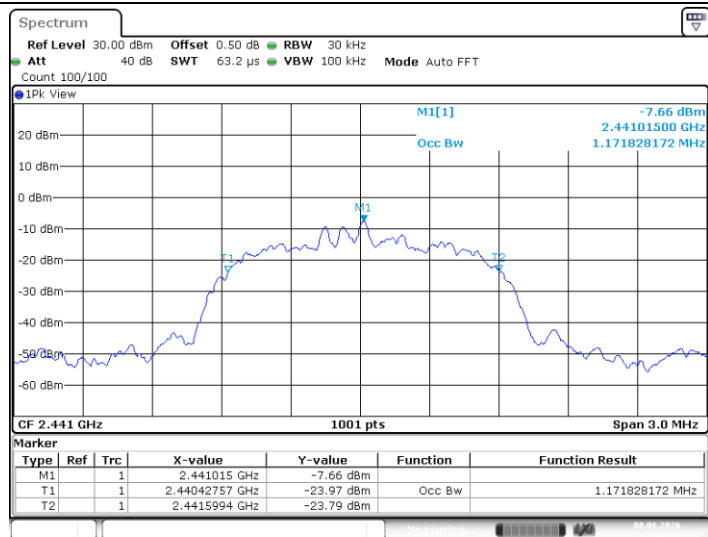
2DH5_Ant1_2480



3DH5_Ant1_2402

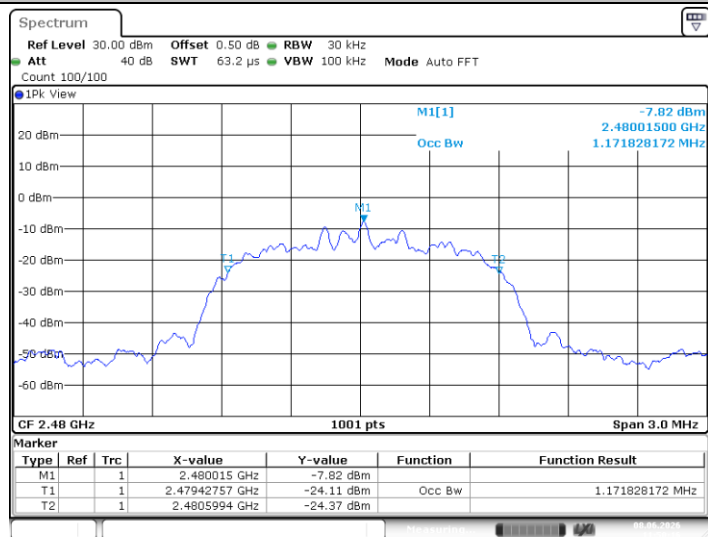


3DH5_Ant1_2441



Date: 8.JUN.2026 11:48:26

3DH5_Ant1_2480



Date: 8.JUN.2026 11:50:16

Appendix C: Maximum conducted output power

Test Result Peak

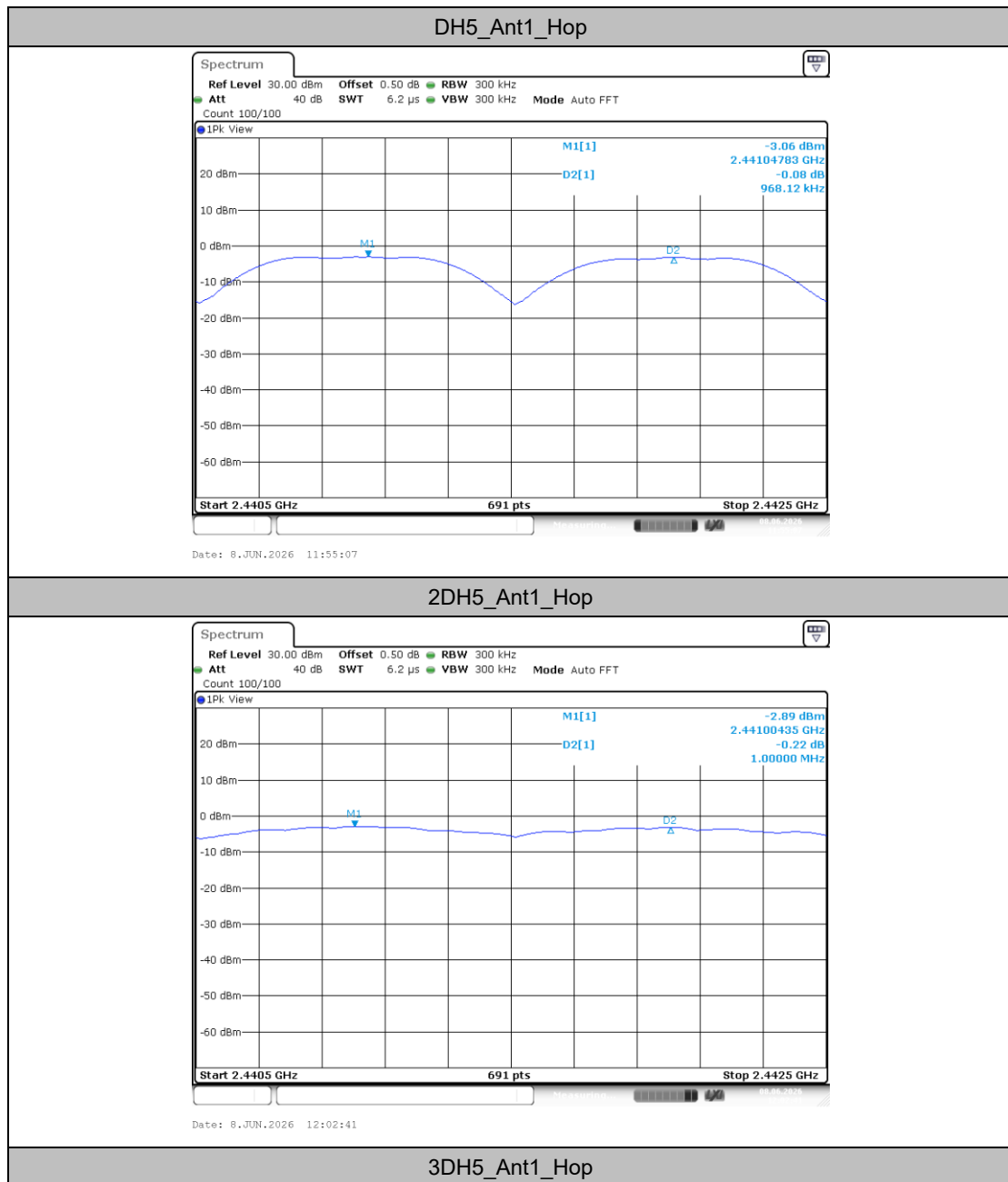
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-6.13	≤20.97	PASS
		2441	-6.09	≤20.97	PASS
		2480	-6.19	≤20.97	PASS
2DH5	Ant1	2402	-3.91	≤20.97	PASS
		2441	-3.85	≤20.97	PASS
		2480	-4.10	≤20.97	PASS
3DH5	Ant1	2402	-3.88	≤20.97	PASS
		2441	-3.54	≤20.97	PASS
		2480	-3.99	≤20.97	PASS

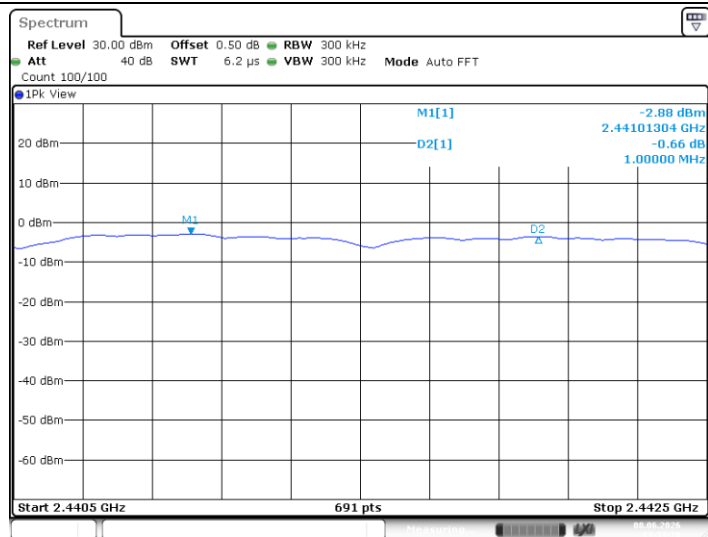
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.940	PASS
2DH5	Ant1	Hop	1	≥ 0.860	PASS
3DH5	Ant1	Hop	1	≥ 0.867	PASS

Test Graphs





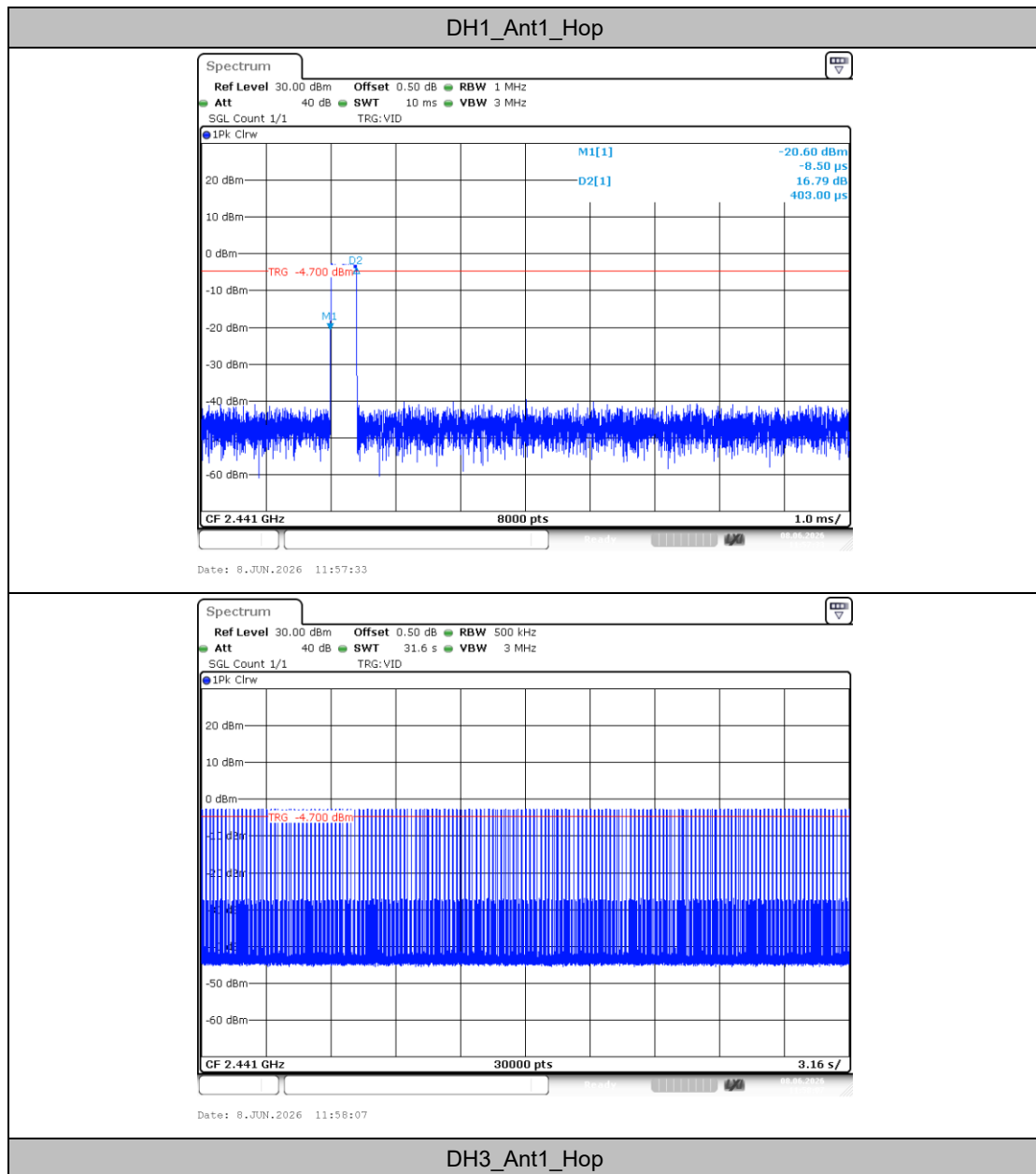
Date: 8.JUN.2026 13:33:28

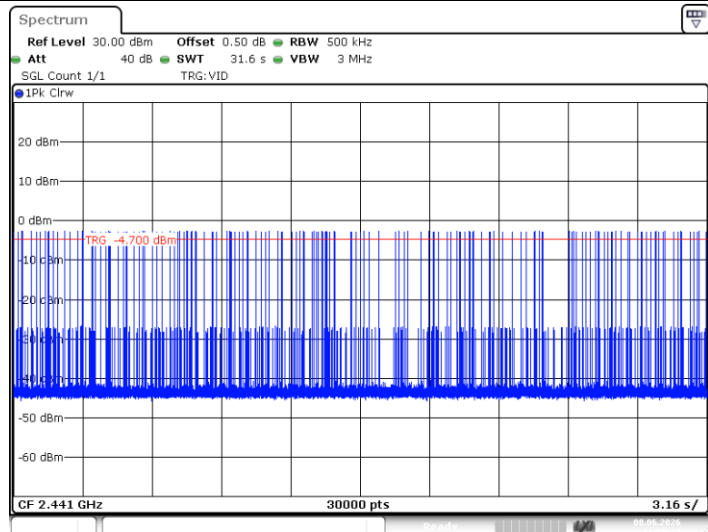
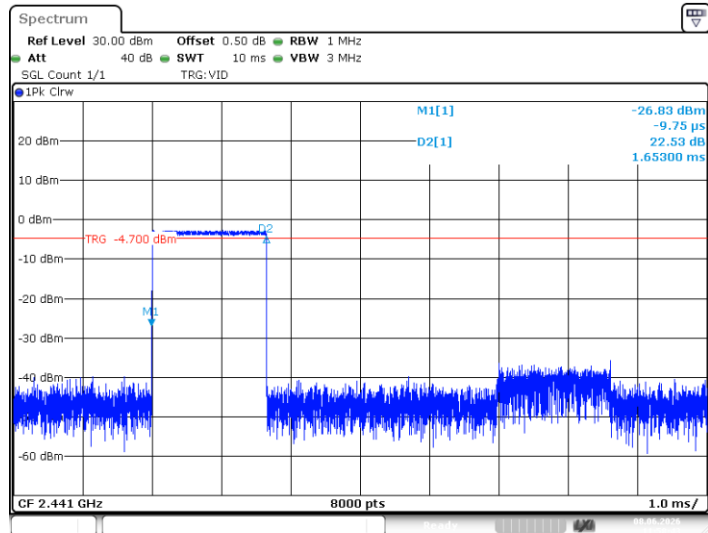
Appendix E: Time of occupancy

Test Result

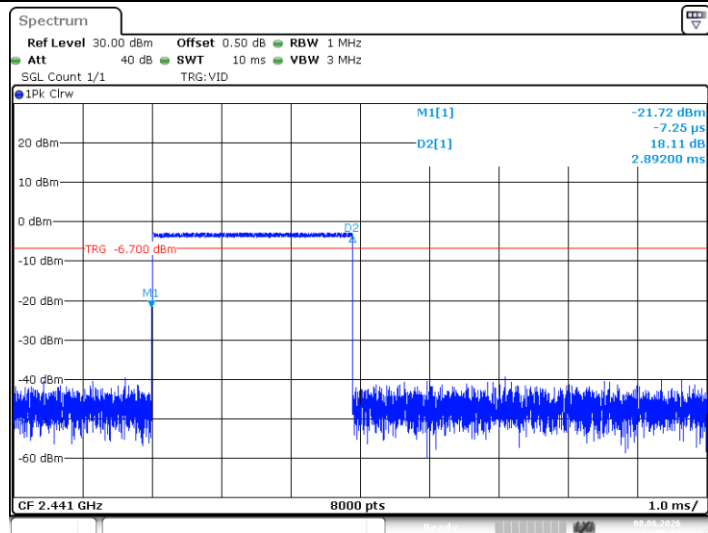
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.403	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.653	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.892	95	0.275	≤0.4	PASS
2DH1	Ant1	Hop	0.413	320	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.658	169	0.28	≤0.4	PASS
2DH5	Ant1	Hop	2.898	102	0.296	≤0.4	PASS
3DH1	Ant1	Hop	0.414	320	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.655	155	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.899	116	0.336	≤0.4	PASS

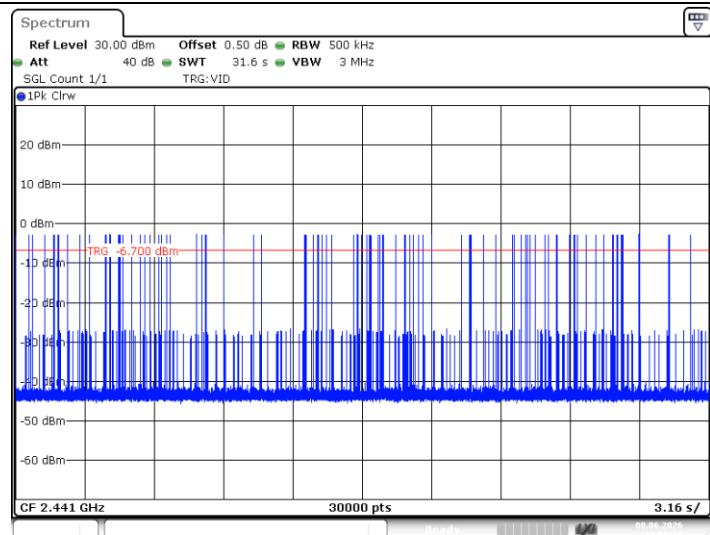
Test Graphs





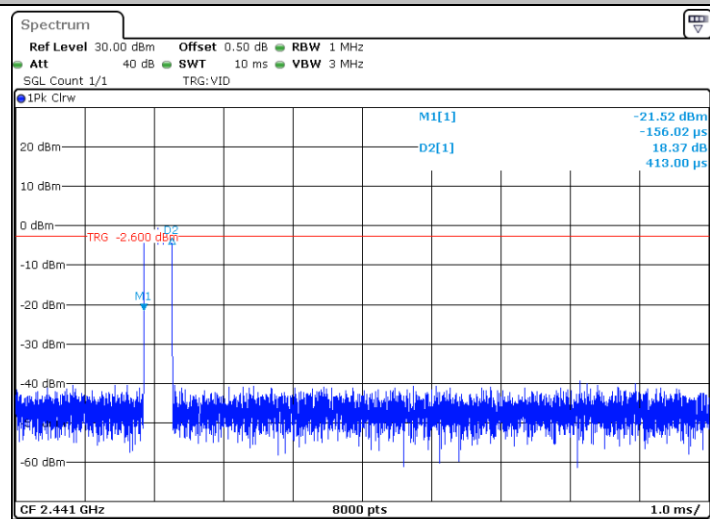
DH5_Ant1_Hop



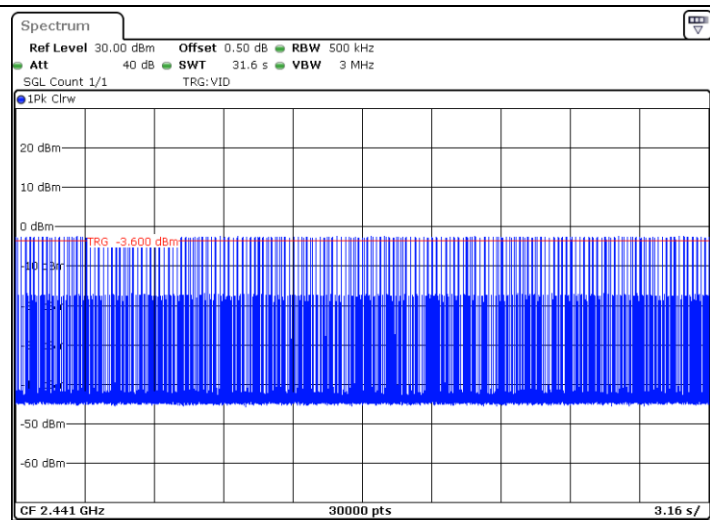


Date: 8.JUN.2026 11:56:29

2DH1_Ant1_Hop

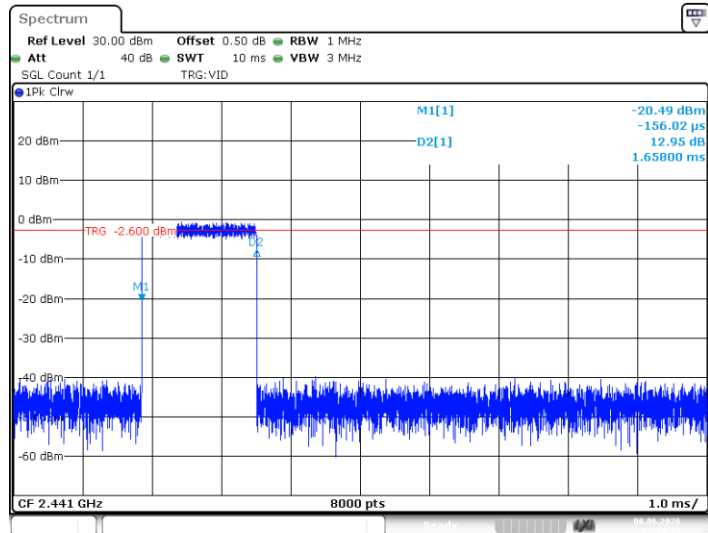


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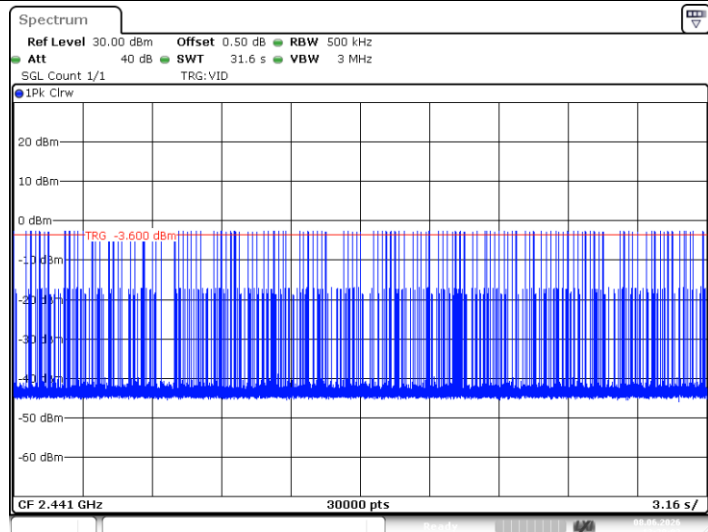


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2DH3_Ant1_Hop

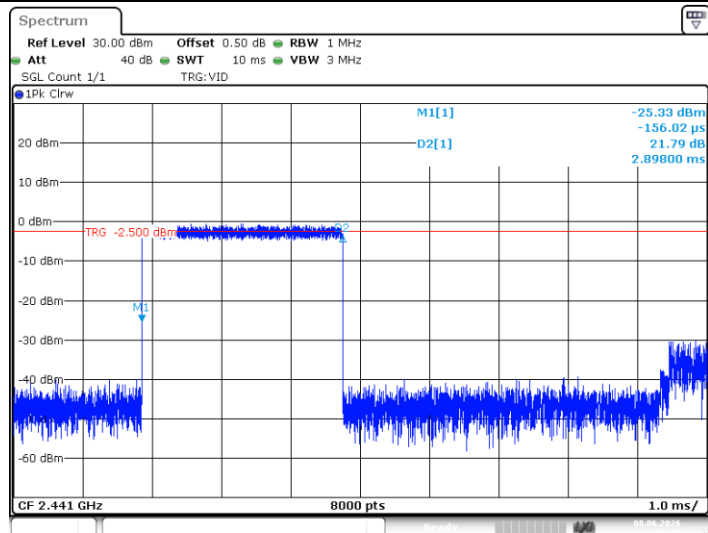


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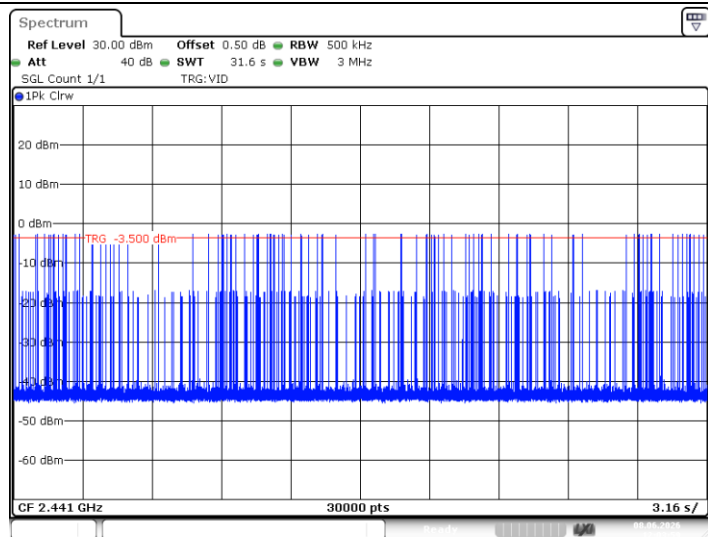


Date: 8.JUN.2026 13:30:03

2DH5_Ant1_Hop

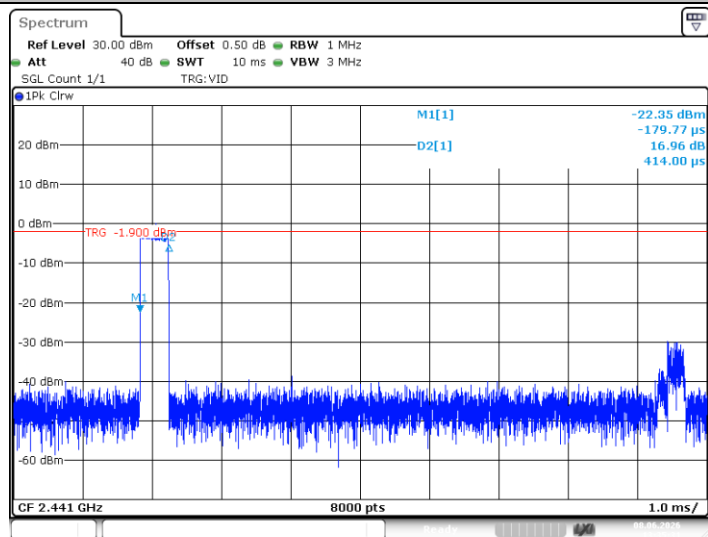


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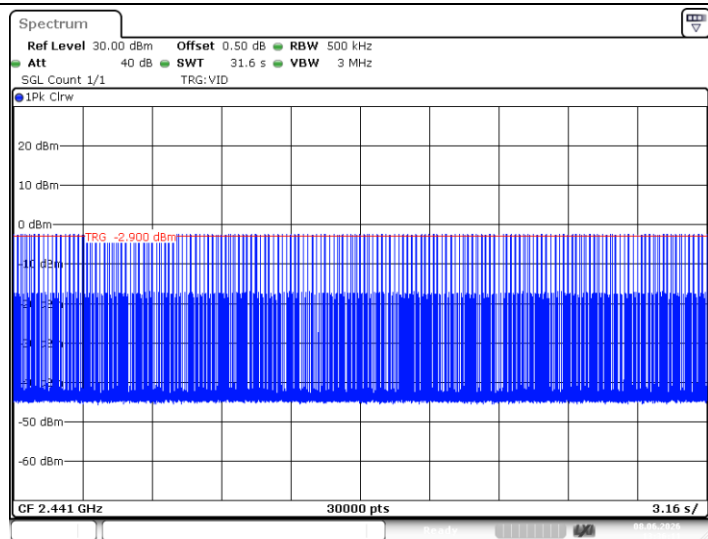


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3DH1_Ant1_Hop

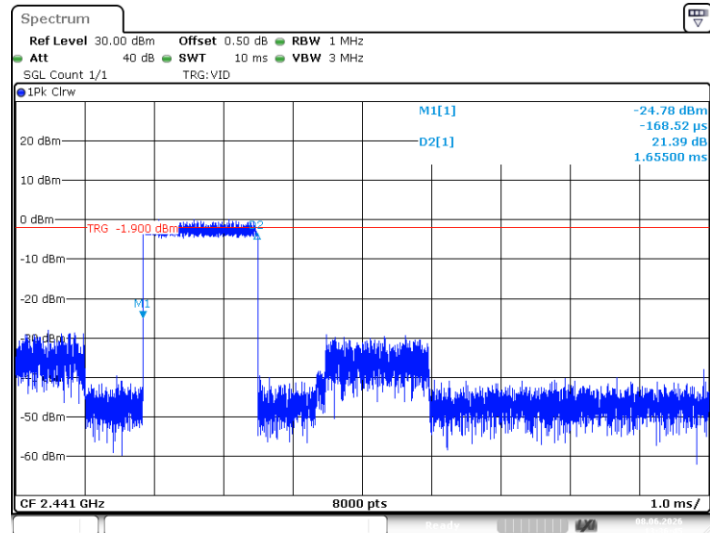


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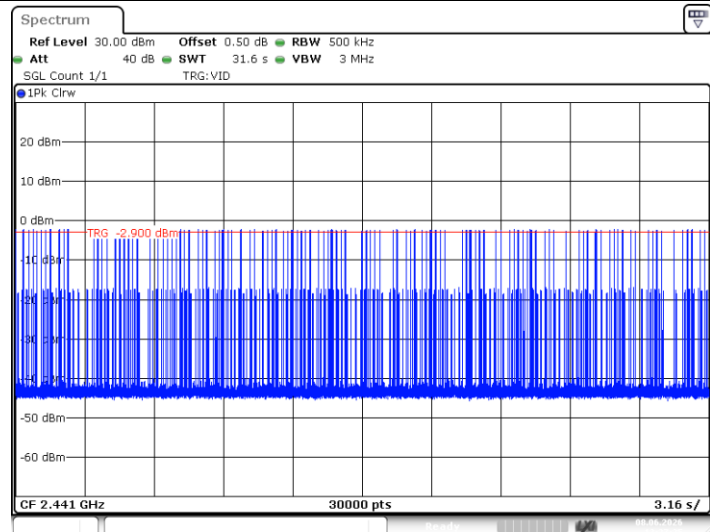


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3DH3_Ant1_Hop

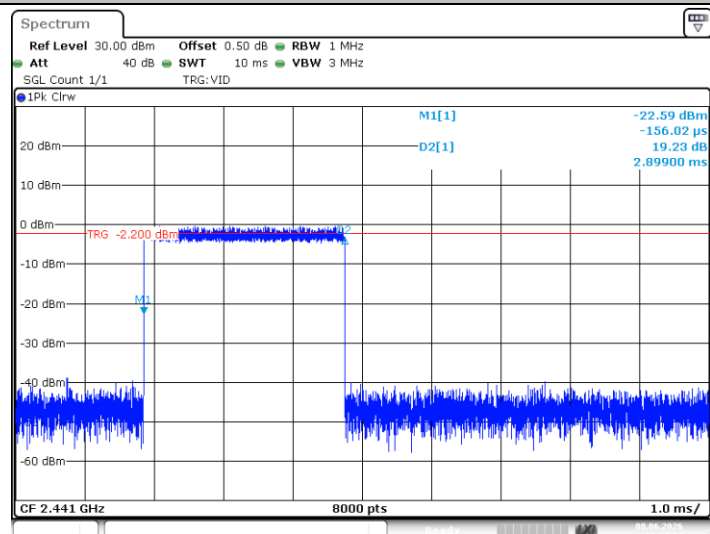


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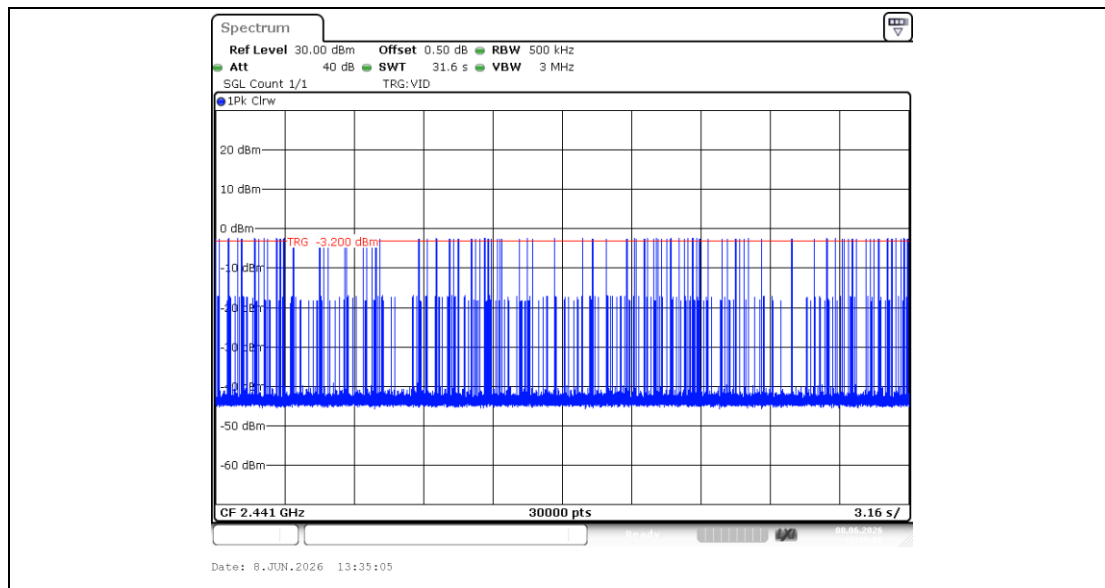


Date: 8.JUN.2026 13:37:25

3DH5_Ant1_Hop



Date: 8.JUN.2026 13:34:24

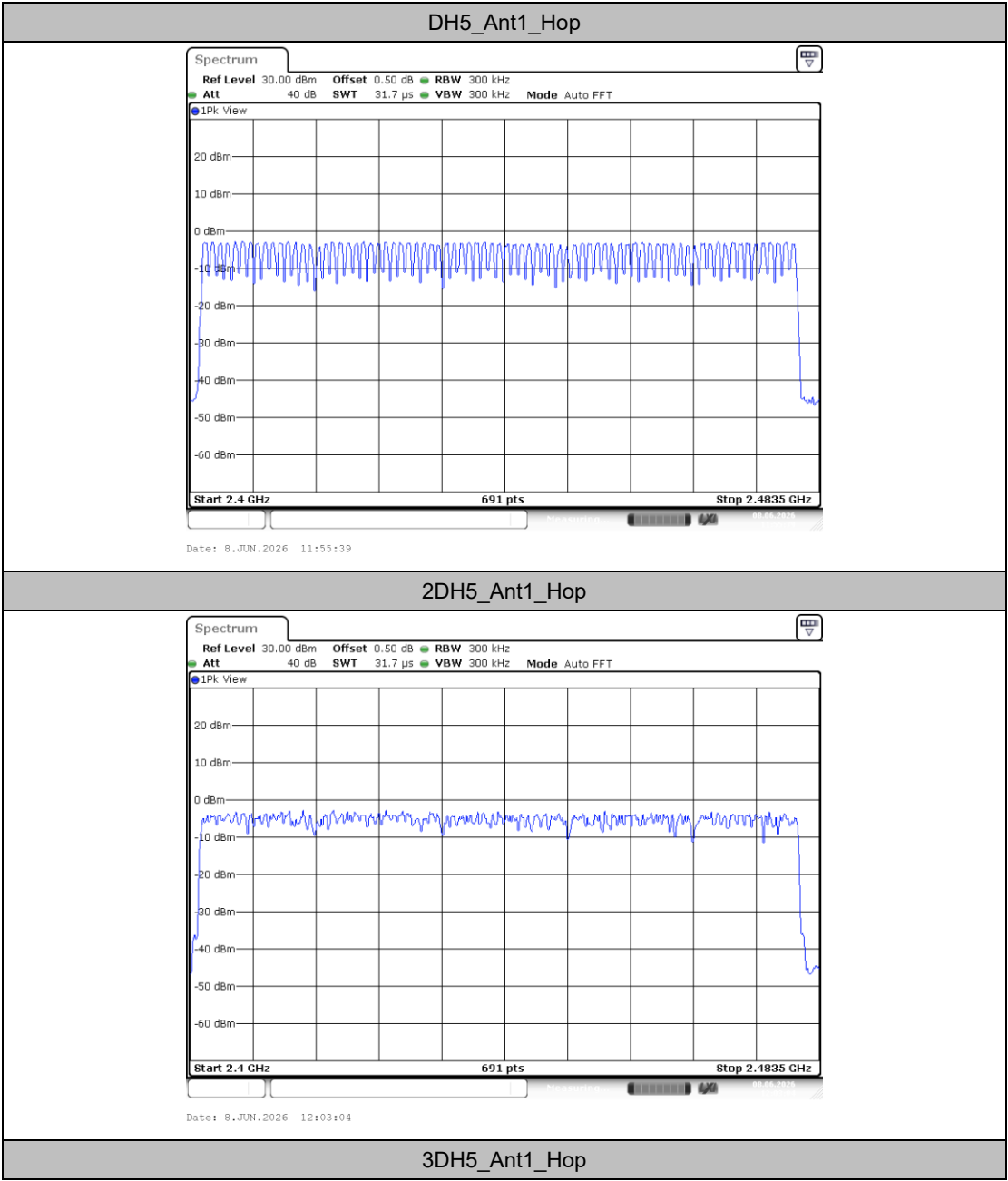


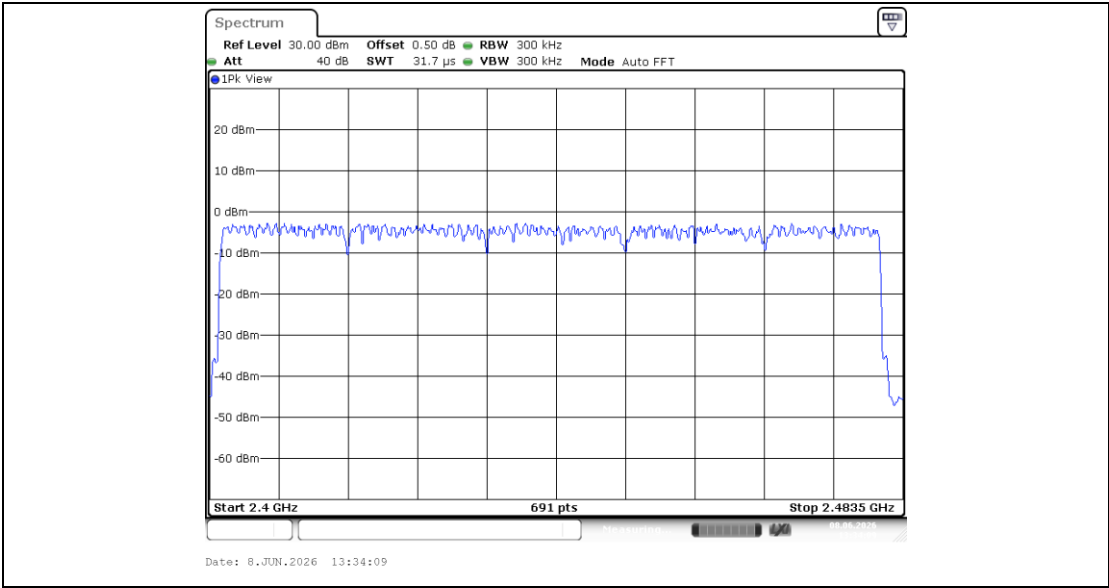
Appendix F: Number of hopping channels

Test Result

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

Test Graphs



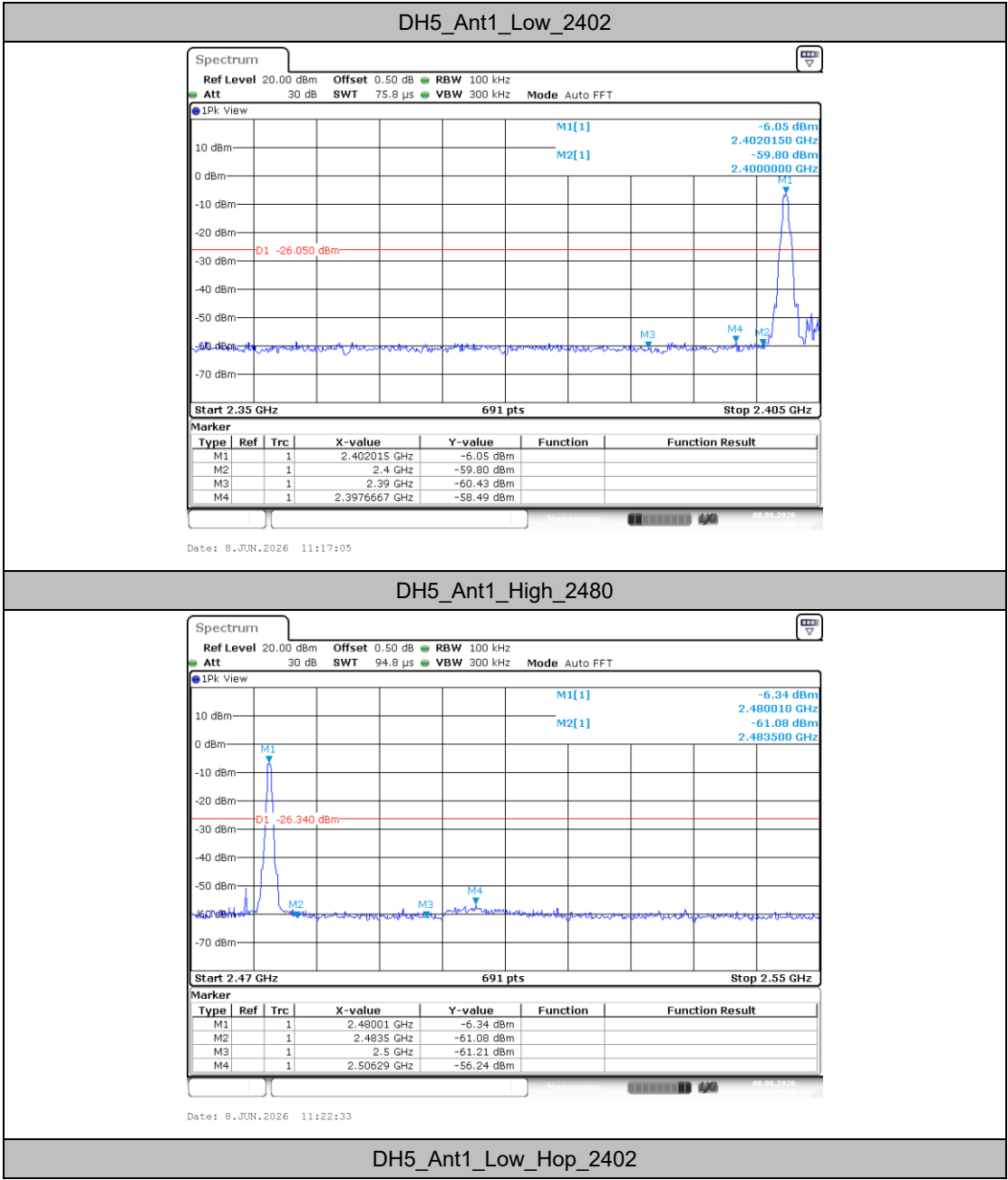


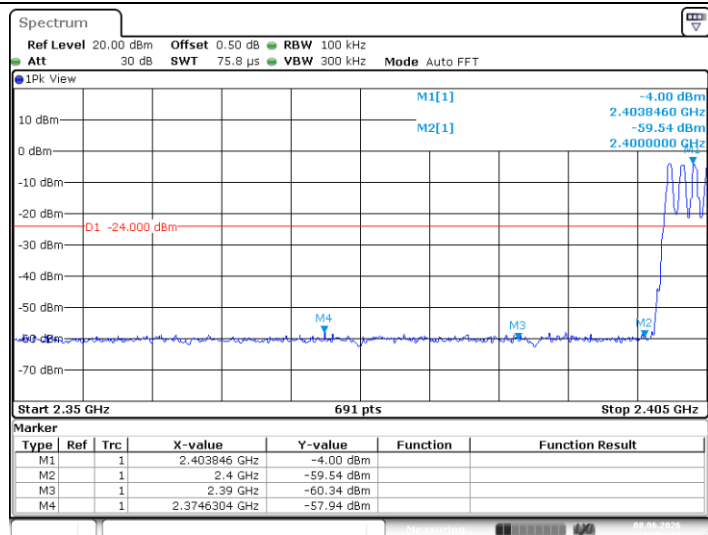
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.05	-58.49	≤ -26.05	PASS
		High	2480	-6.34	-56.24	≤ -26.34	PASS
		Low	Hop_2402	-4.00	-57.94	≤ -24	PASS
		High	Hop_2480	-3.07	-56.28	≤ -23.07	PASS
2DH5	Ant1	Low	2402	-6.13	-57.94	≤ -26.13	PASS
		High	2480	-6.51	-54.05	≤ -26.51	PASS
		Low	Hop_2402	-3.29	-53.46	≤ -23.29	PASS
		High	Hop_2480	-3.77	-44.92	≤ -23.77	PASS
3DH5	Ant1	Low	2402	-6.03	-57.96	≤ -26.03	PASS
		High	2480	-7.04	-55.85	≤ -27.04	PASS
		Low	Hop_2402	-5.59	-58	≤ -25.59	PASS
		High	Hop_2480	-4.34	-48.68	≤ -24.34	PASS

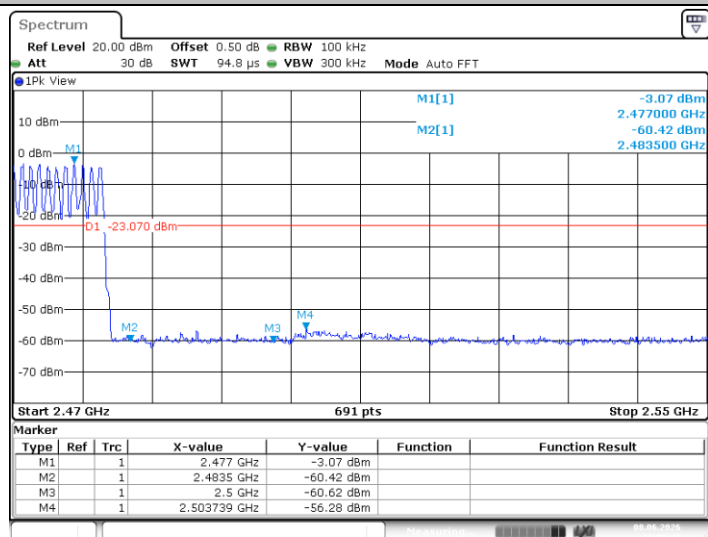
Test Graphs





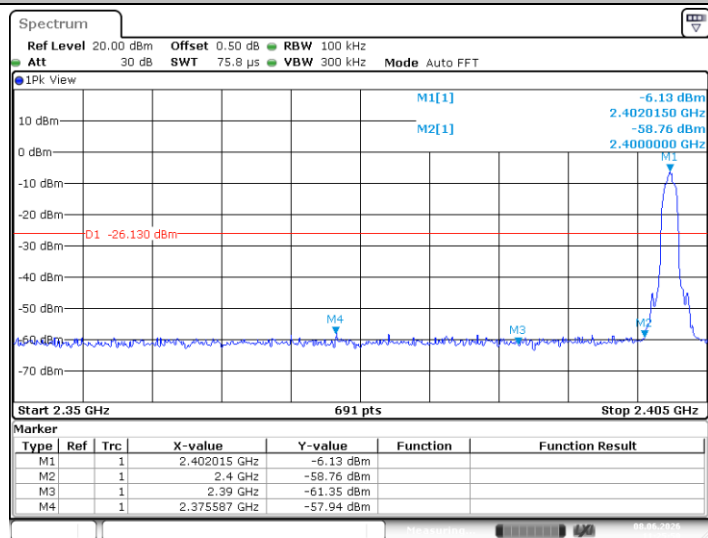
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DH5_Ant1_High_Hop_2480



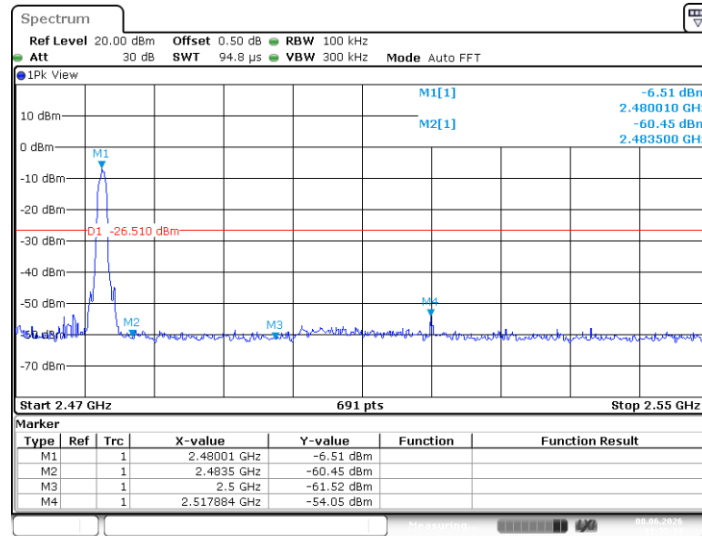
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2DH5_Ant1_Low_2402



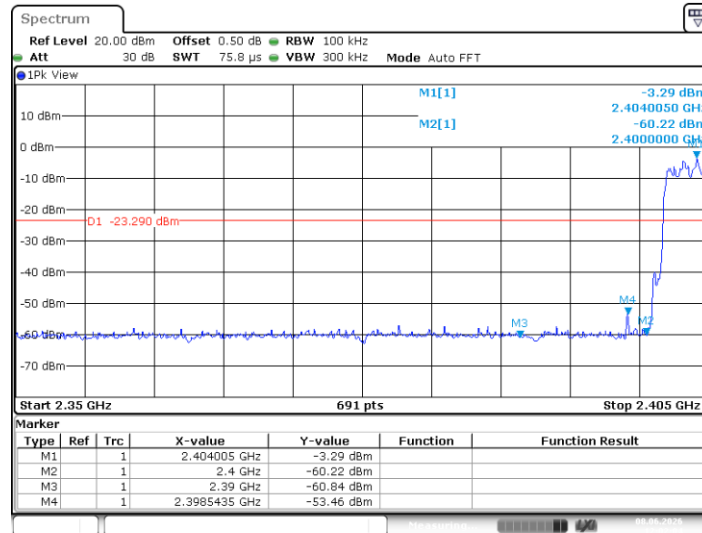
Date: 8.JUN.2026 11:25:49

2DH5_Ant1_High_2480



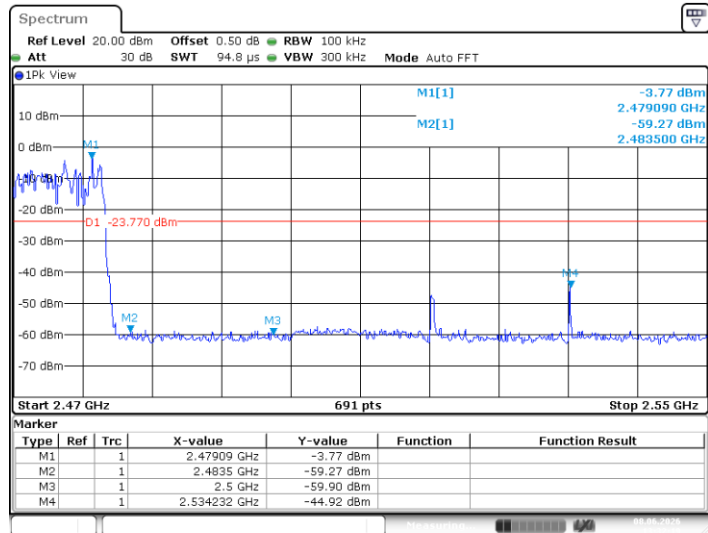
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2DH5_Ant1_Low_Hop_2402



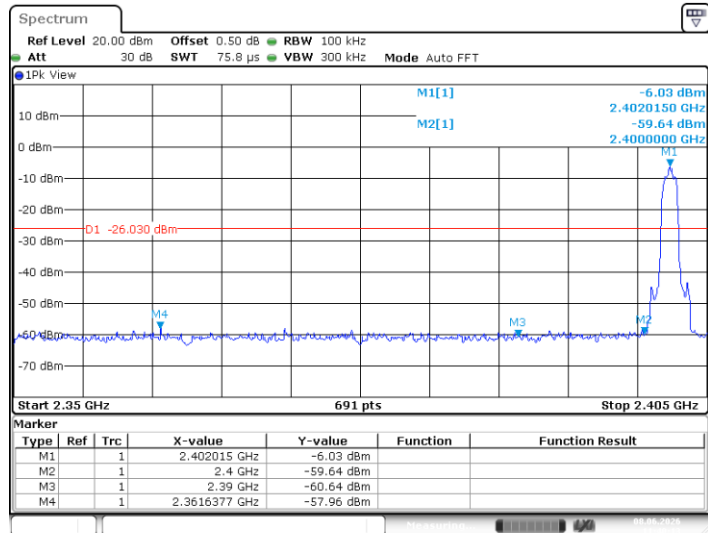
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2DH5_Ant1_High_Hop_2480



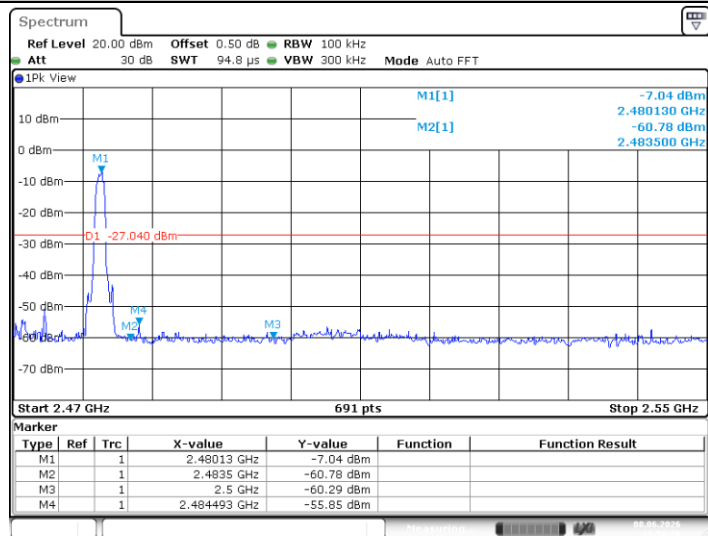
Date: 8.JUN.2026 13:32:20

3DH5_Ant1_Low_2402



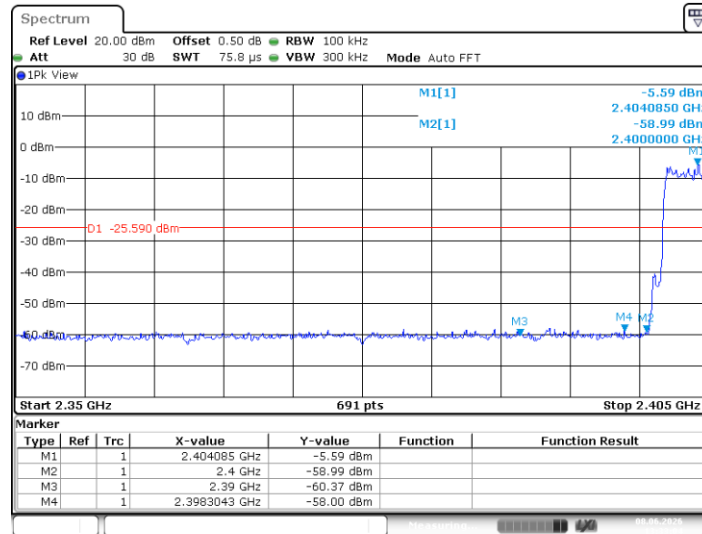
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3DH5_Ant1_High_2480



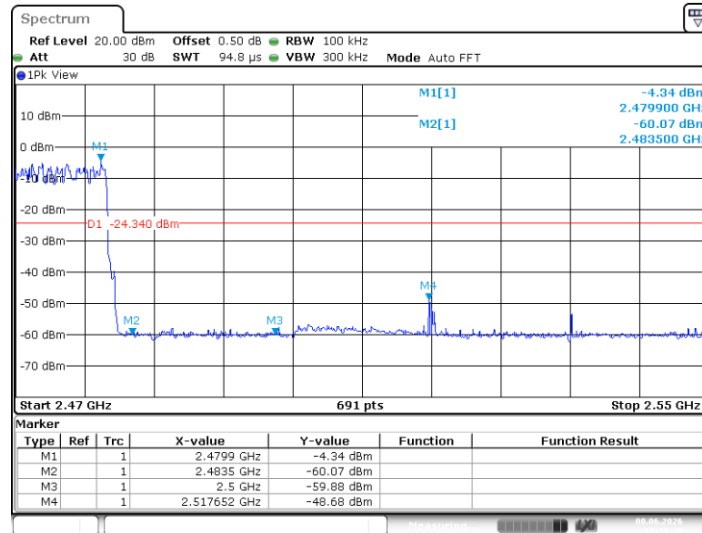
Date: 8.JUN.2026 11:50:26

3DH5_Ant1_Low_Hop_2402



Date: 8.JUN.2026 13:33:04

3DH5_Ant1_High_Hop_2480



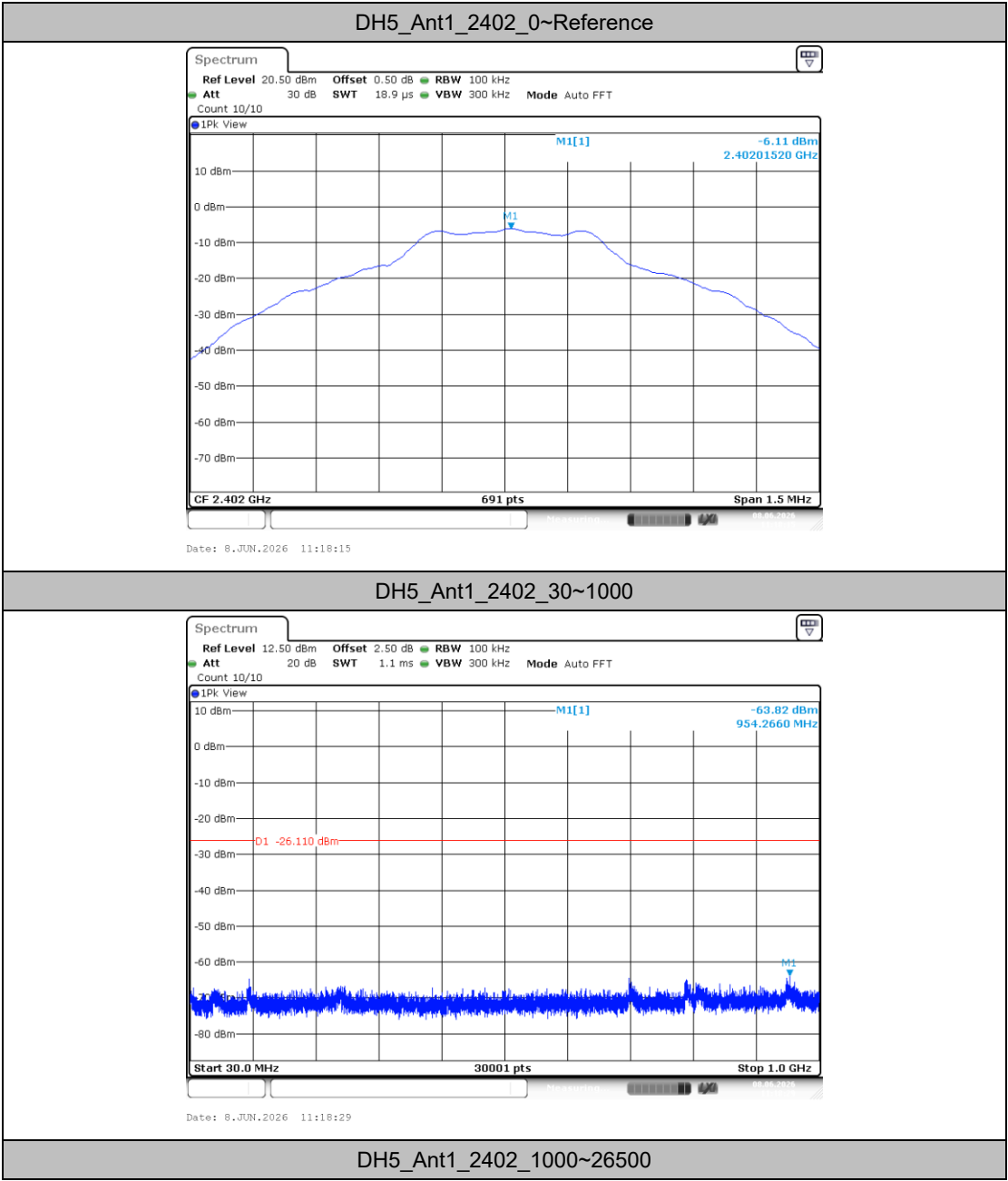
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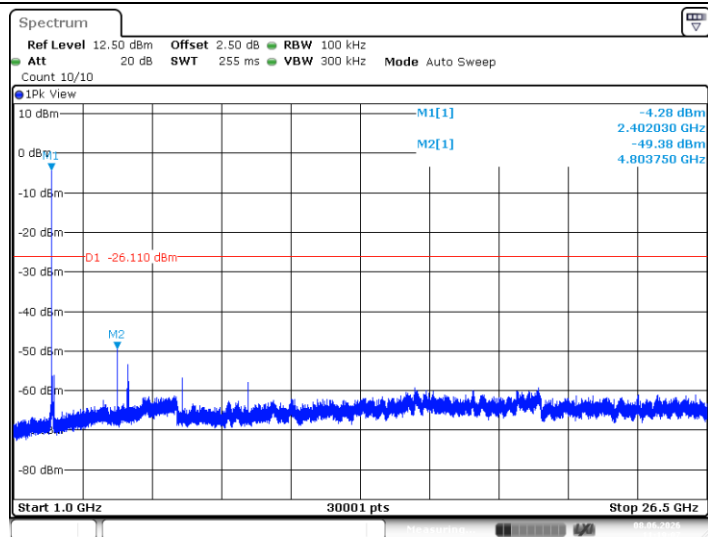
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-63.82	≤-26.11	PASS
			1000~26500	-6.11	-49.38	≤-26.11	PASS
		2441	Reference	-6.24	-6.24	---	PASS
			30~1000	-6.24	-38.88	≤-26.24	PASS
			1000~26500	-6.24	-50.72	≤-26.24	PASS
		2480	Reference	-6.38	-6.38	---	PASS
			30~1000	-6.38	-64.91	≤-26.38	PASS
			1000~26500	-6.38	-47.73	≤-26.38	PASS
2DH5	Ant1	2402	Reference	-6.12	-6.12	---	PASS
			30~1000	-6.12	-64.6	≤-26.12	PASS
			1000~26500	-6.12	-49.28	≤-26.12	PASS
		2441	Reference	-6.26	-6.26	---	PASS
			30~1000	-6.26	-64.84	≤-26.26	PASS
			1000~26500	-6.26	-49.63	≤-26.26	PASS
		2480	Reference	-6.45	-6.45	---	PASS
			30~1000	-6.45	-65.22	≤-26.45	PASS
			1000~26500	-6.45	-52.32	≤-26.45	PASS
3DH5	Ant1	2402	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-65.16	≤-26.09	PASS
			1000~26500	-6.09	-50.25	≤-26.09	PASS
		2441	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-65.17	≤-26.15	PASS
			1000~26500	-6.15	-47.42	≤-26.15	PASS
		2480	Reference	-6.45	-6.45	---	PASS
			30~1000	-6.45	-64.56	≤-26.45	PASS
			1000~26500	-6.45	-51.9	≤-26.45	PASS

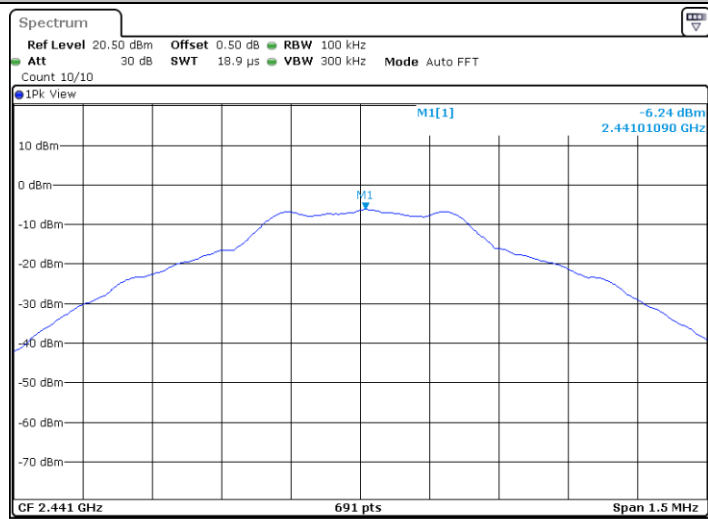
Test Graphs





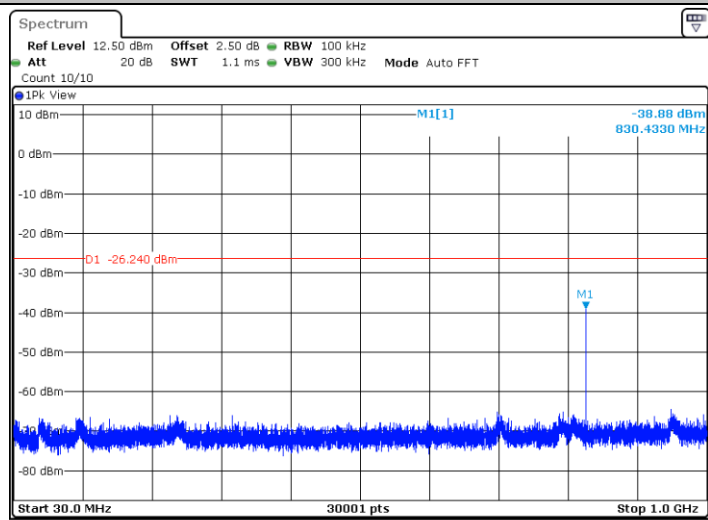
Date: 8.JUN.2026 11:19:07

DH5_Ant1_2441_0~Reference



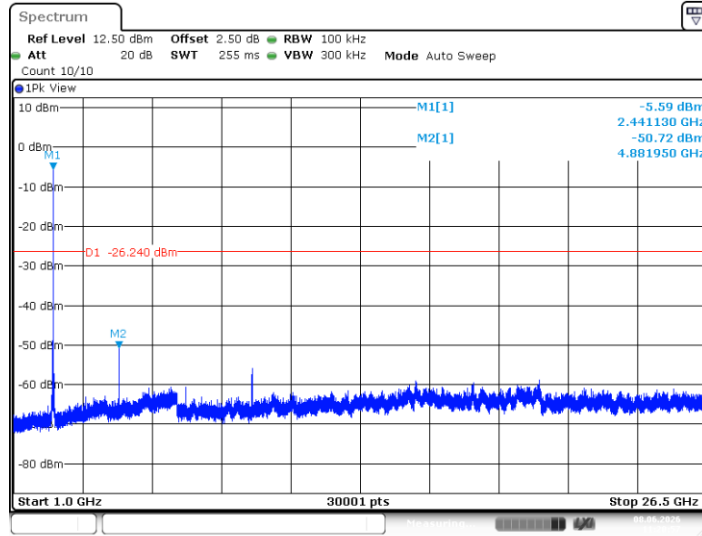
Date: 8.JUN.2026 11:20:05

DH5_Ant1_2441_30~1000



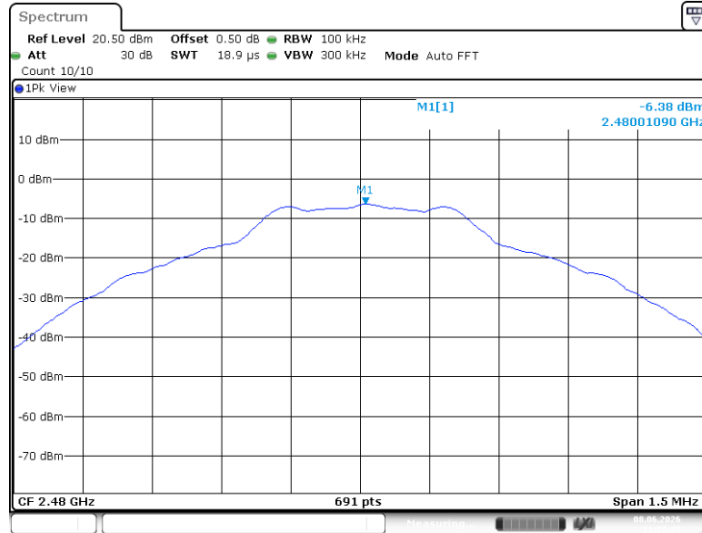
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DH5_Ant1_2441_1000~26500



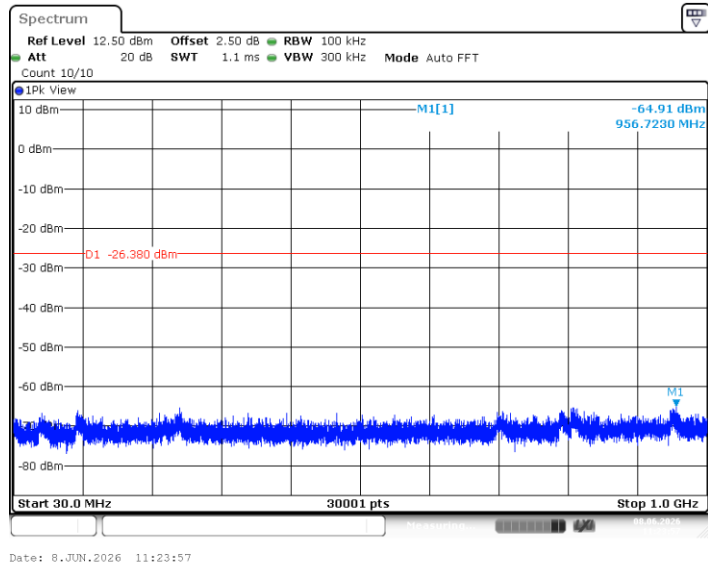
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DH5_Ant1_2480_0~Reference

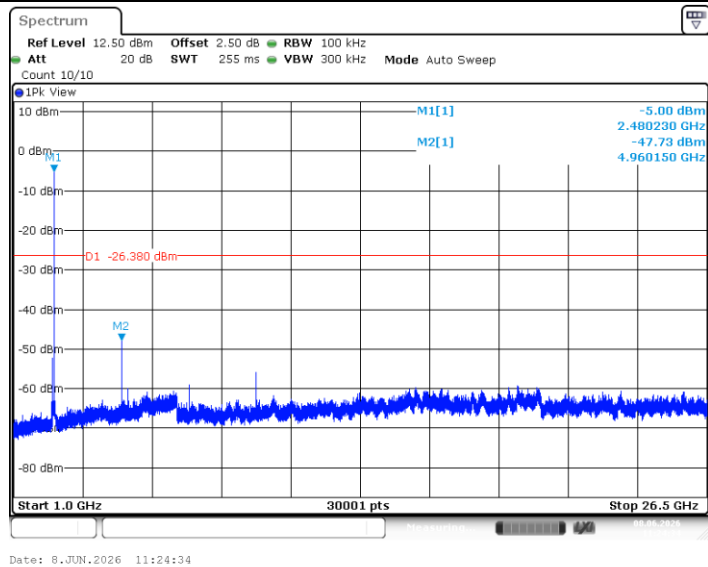


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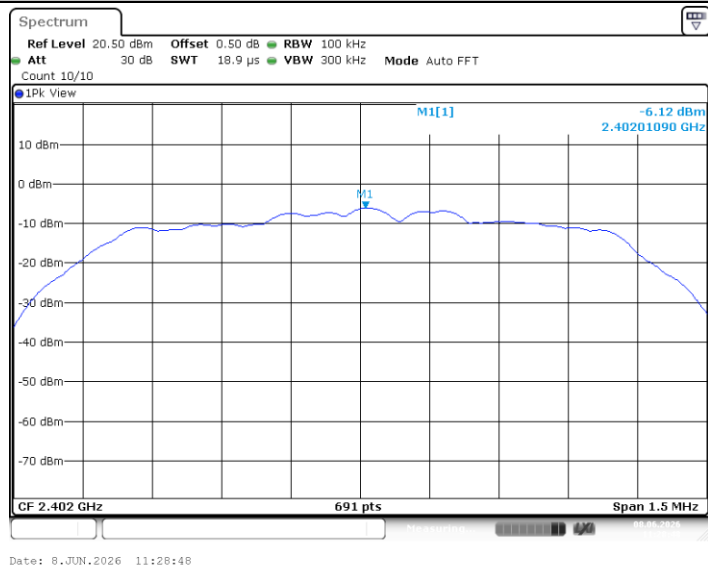
DH5_Ant1_2480_30~1000



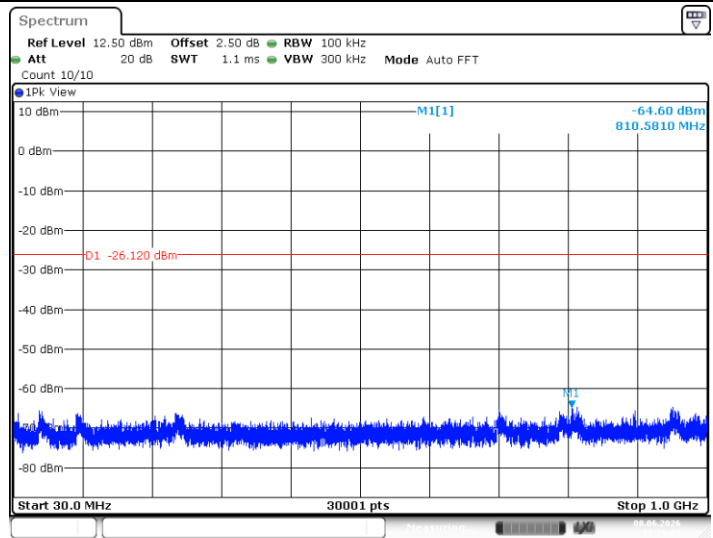
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

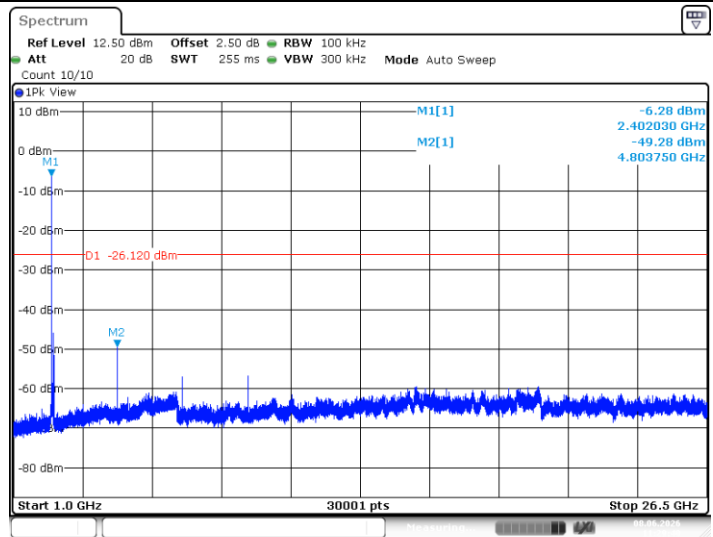


2DH5_Ant1_2402_30~1000



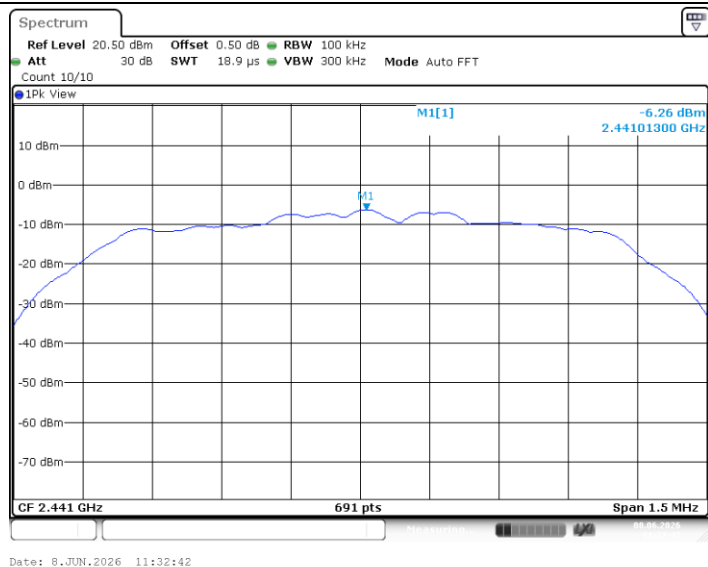
Date: 8.JUN.2026 11:29:03

2DH5_Ant1_2402_1000~26500

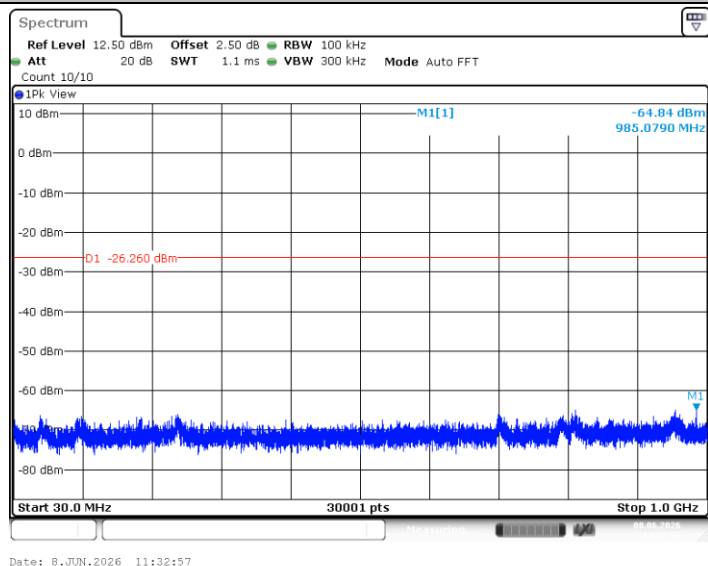


Date: 8.JUN.2026 11:29:40

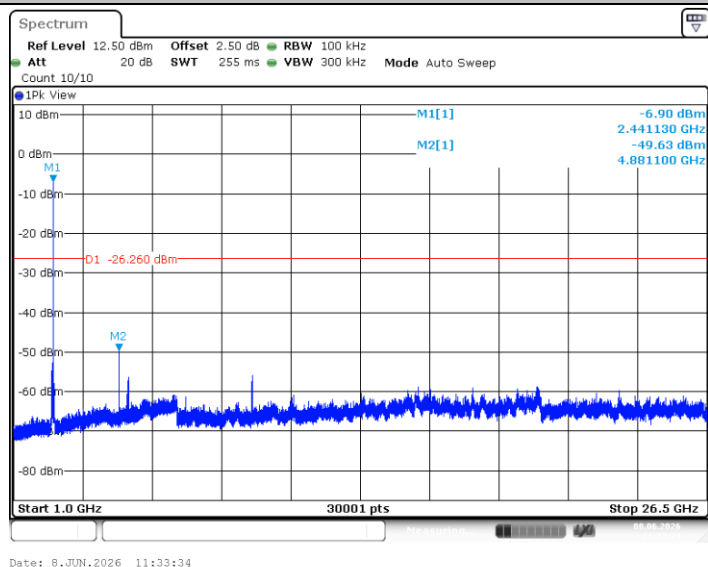
2DH5_Ant1_2441_0~Reference



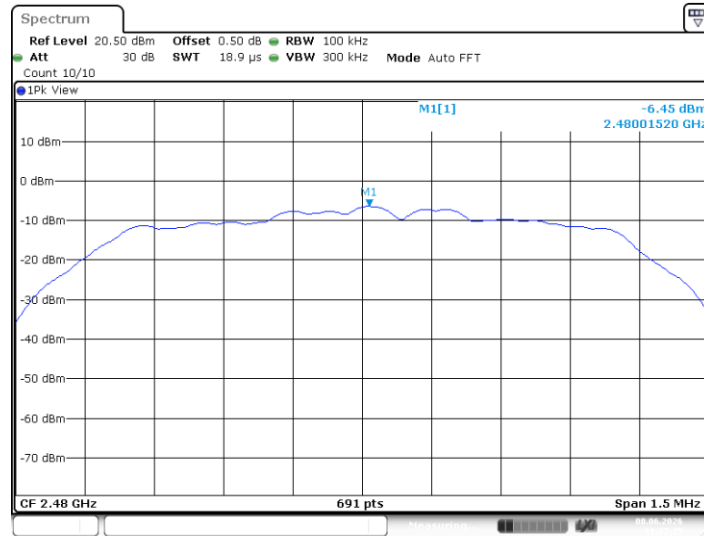
2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

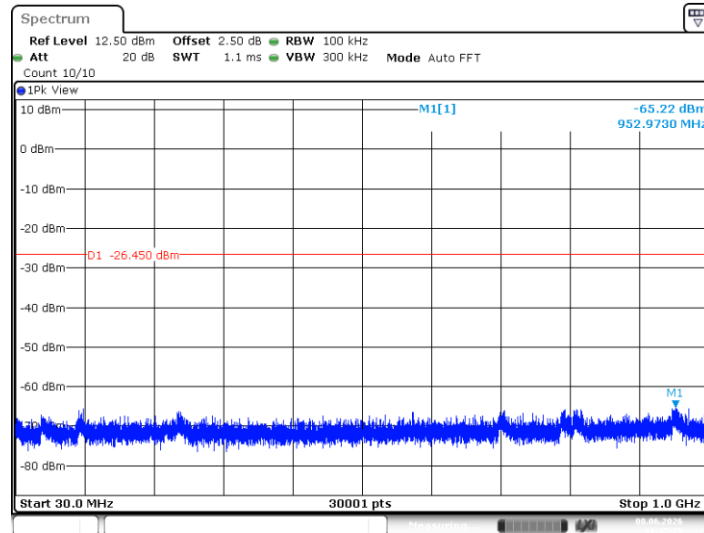


2DH5_Ant1_2480_0~Reference



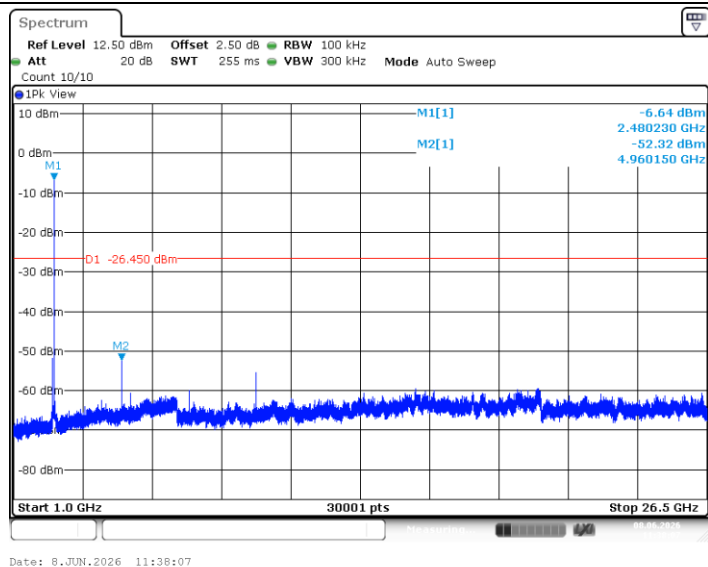
Date: 8.JUN.2026 11:37:15

2DH5_Ant1_2480_30~1000

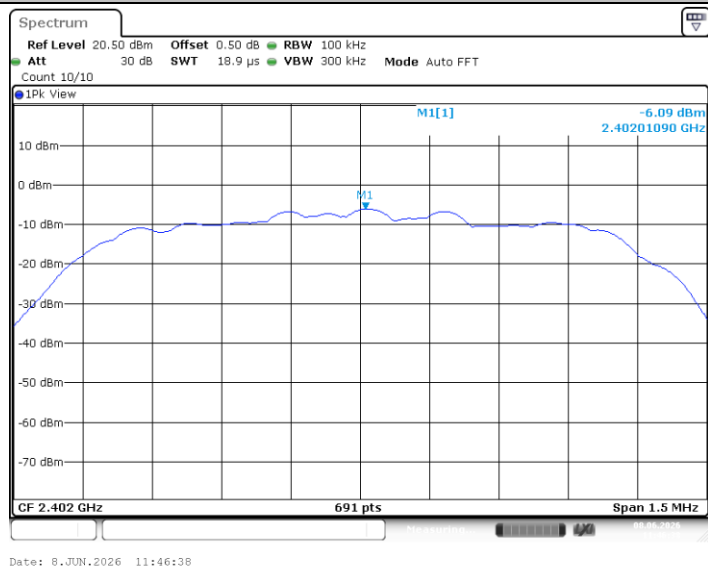


Date: 8.JUN.2026 11:37:29

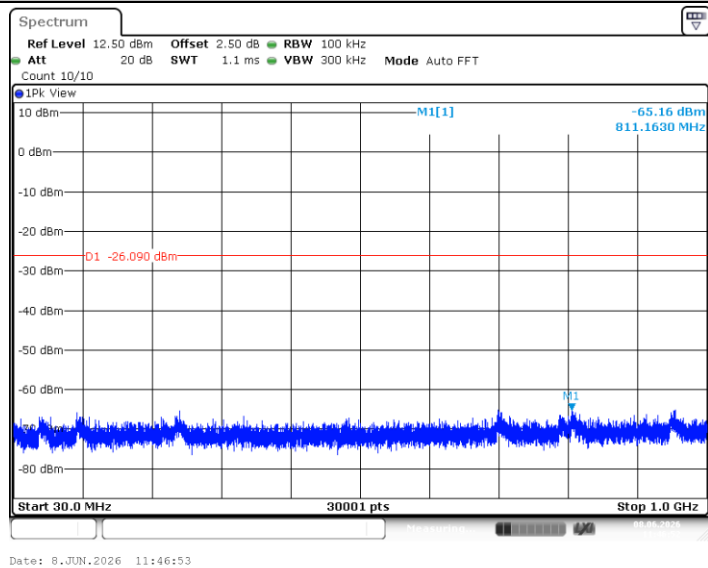
2DH5_Ant1_2480_1000~26500



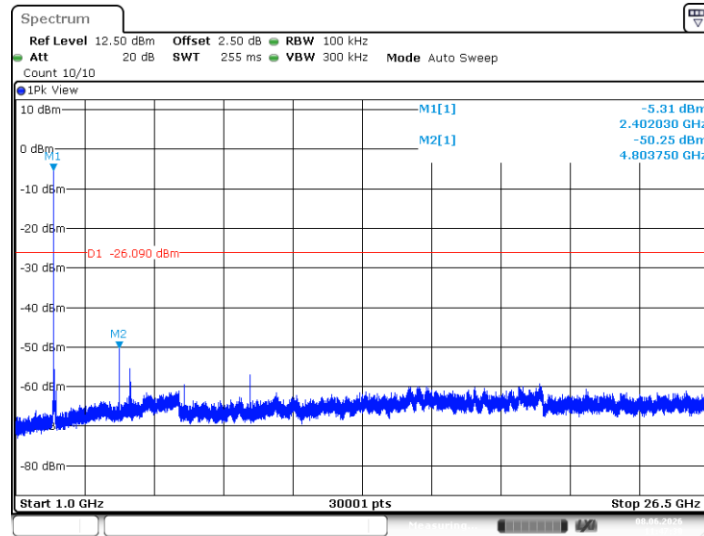
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

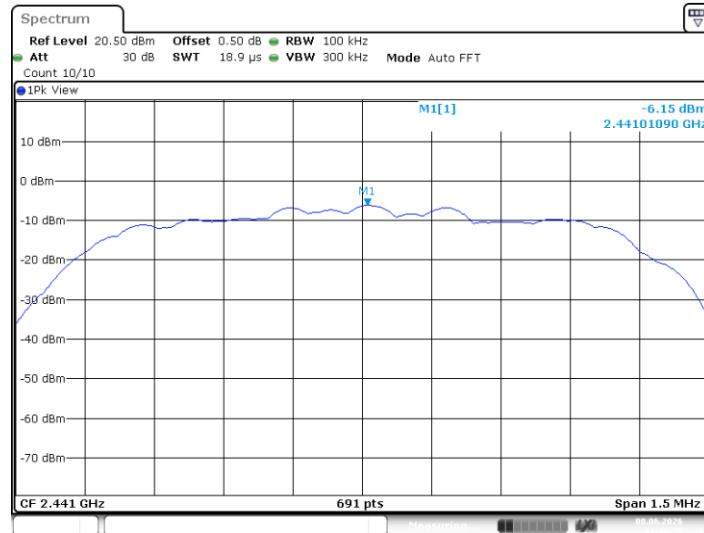


3DH5_Ant1_2402_1000~26500



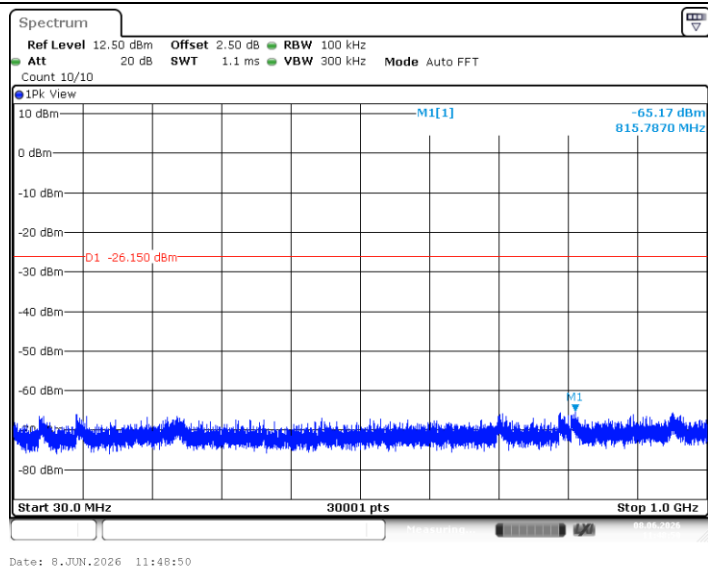
Date: 8.JUN.2026 11:47:30

3DH5_Ant1_2441_0~Reference

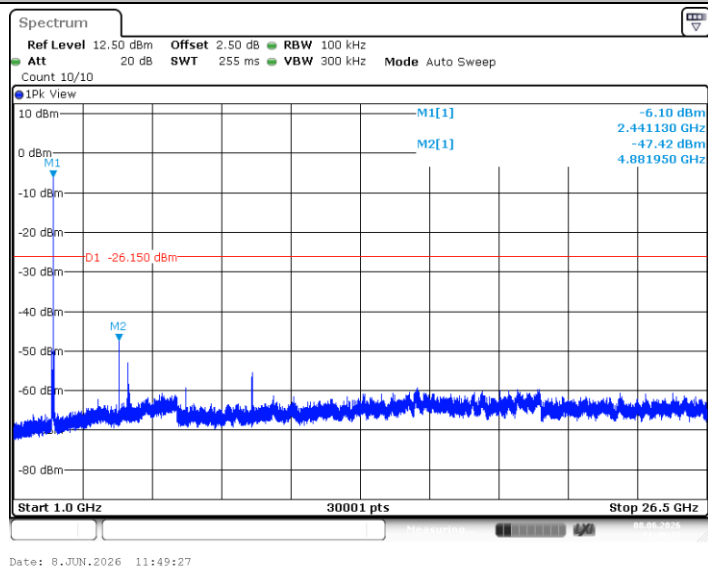


Date: 8.JUN.2026 11:48:35

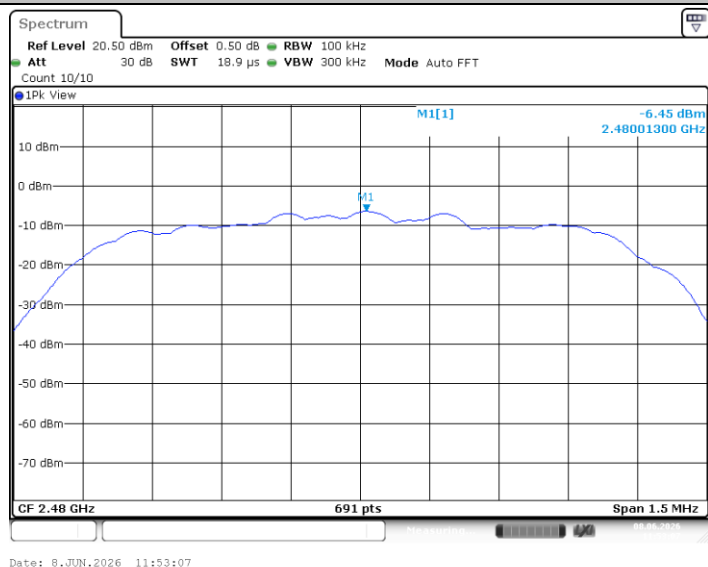
3DH5_Ant1_2441_30~1000



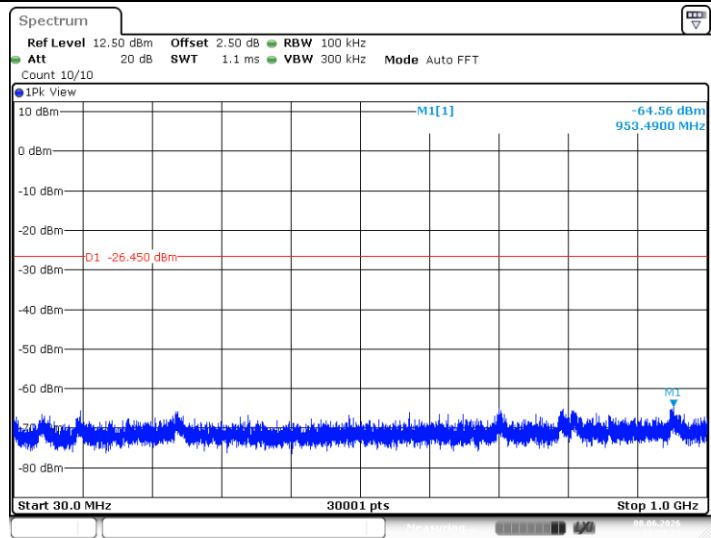
3DH5_Ant1_2441_1000~26500



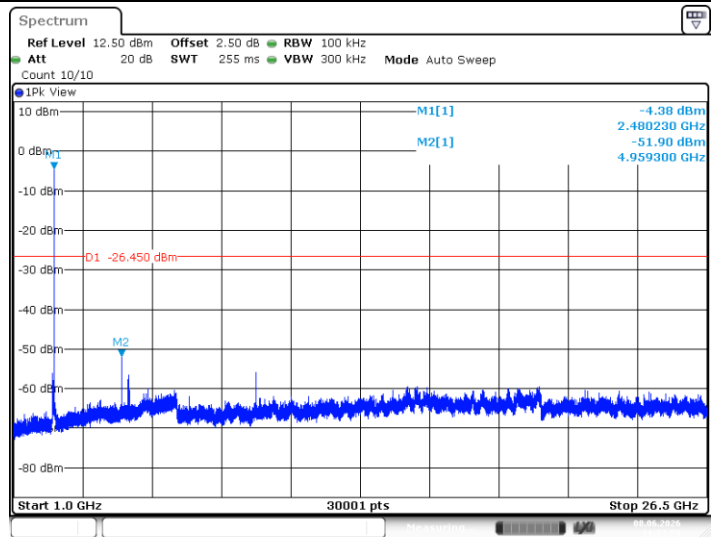
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

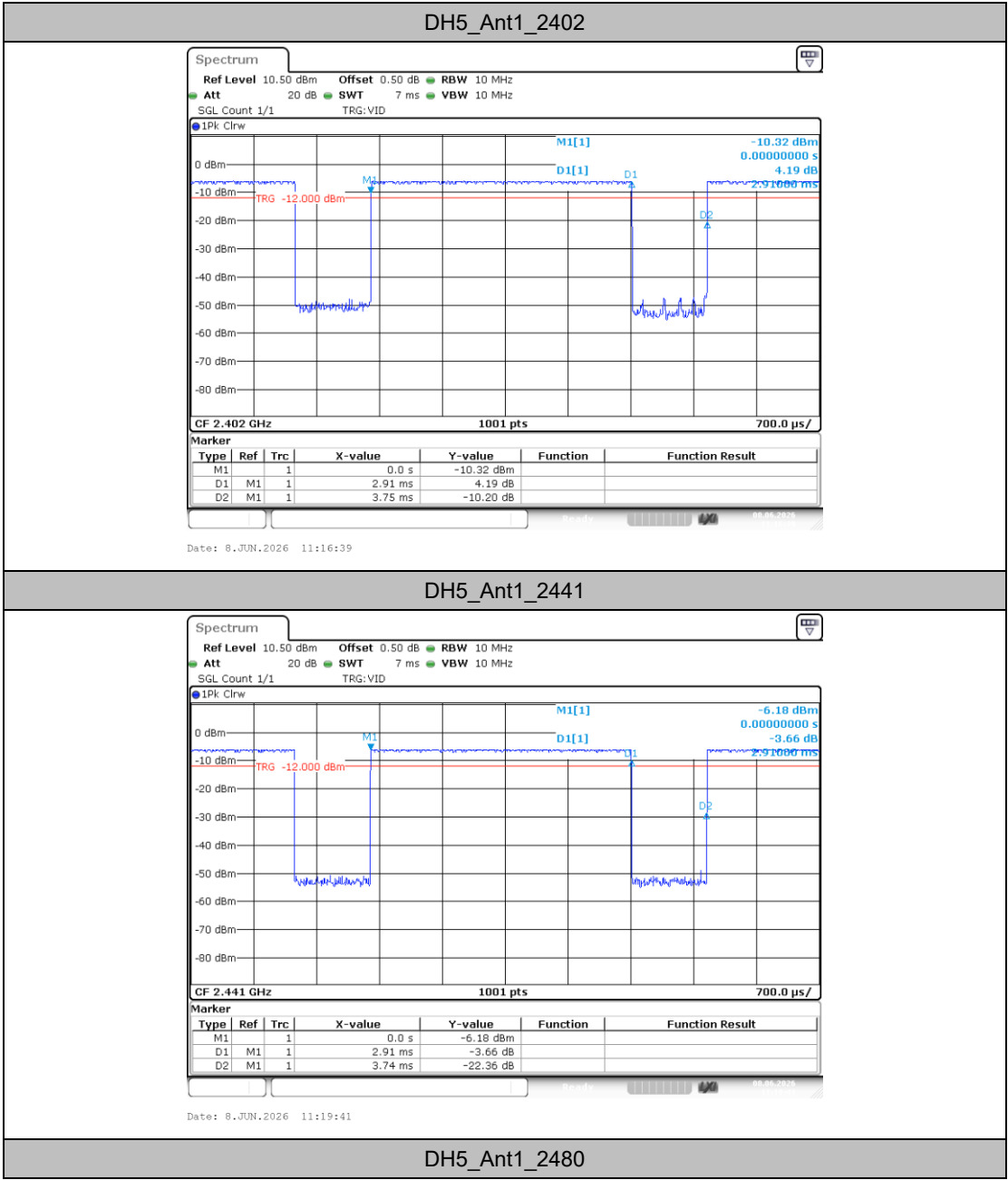


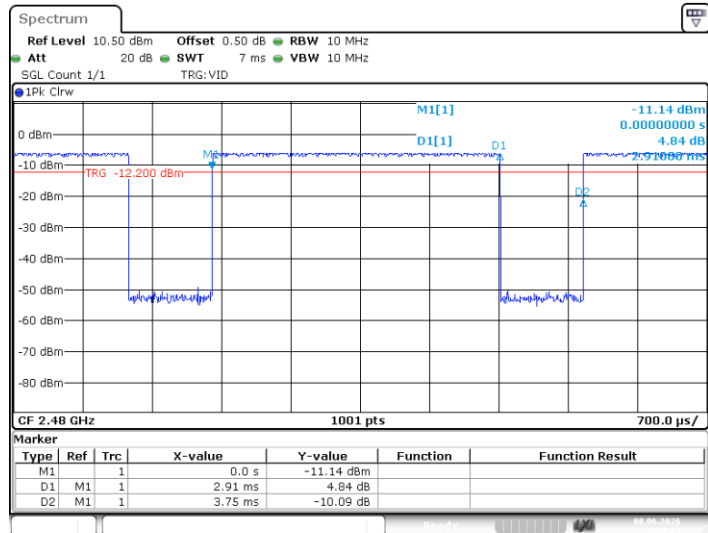
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.74	77.81	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
3DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.74	77.81	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

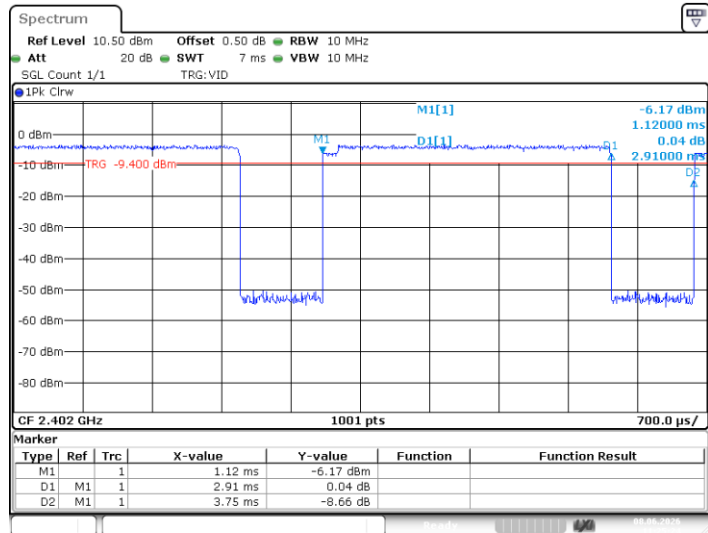
Test Graphs





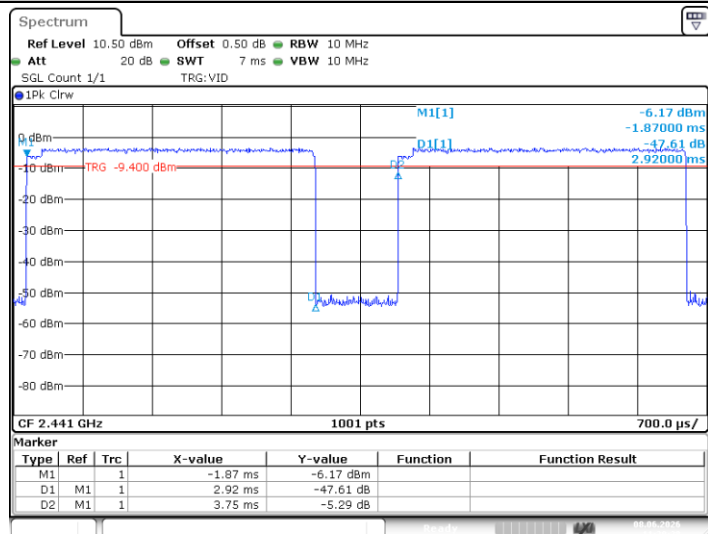
Date: 8.JUN.2026 11:22:07

2DH5_Ant1_2402



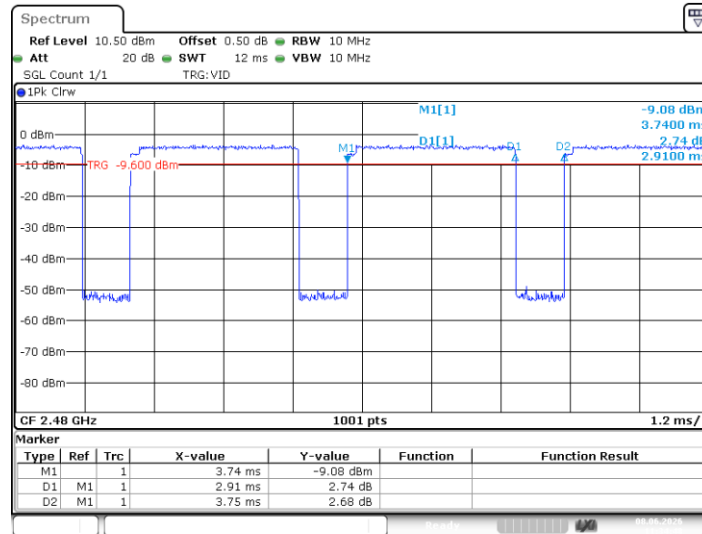
Date: 8.JUN.2026 11:25:23

2DH5_Ant1_2441



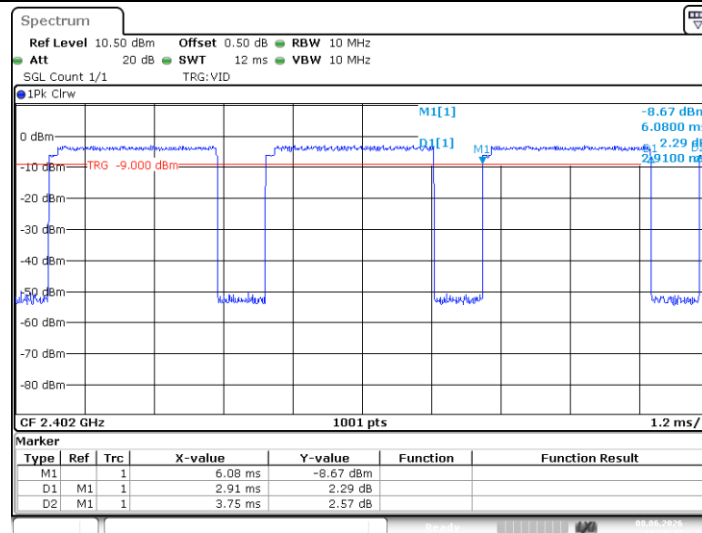
Date: 8.JUN.2026 11:30:28

2DH5_Ant1_2480



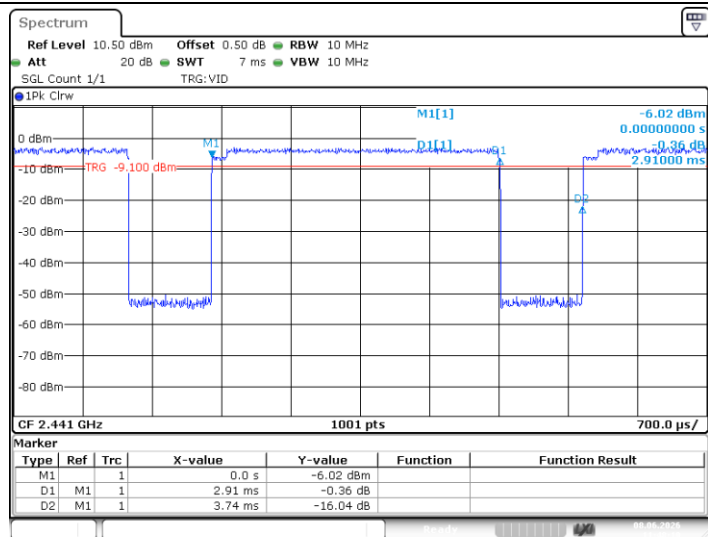
Date: 8.JUN.2026 11:34:48

3DH5_Ant1_2402



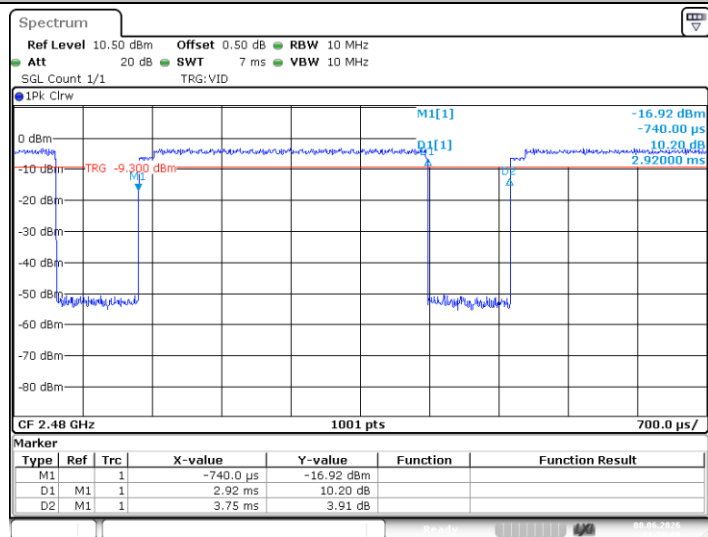
Date: 8.JUN.2026 11:39:47

3DH5_Ant1_2441



Date: 8.JUN.2026 11:48:10

3DH5_Ant1_2480



Date: 8.JUN.2026 11:50:00

Appendix J: Emissions in Restricted Bands

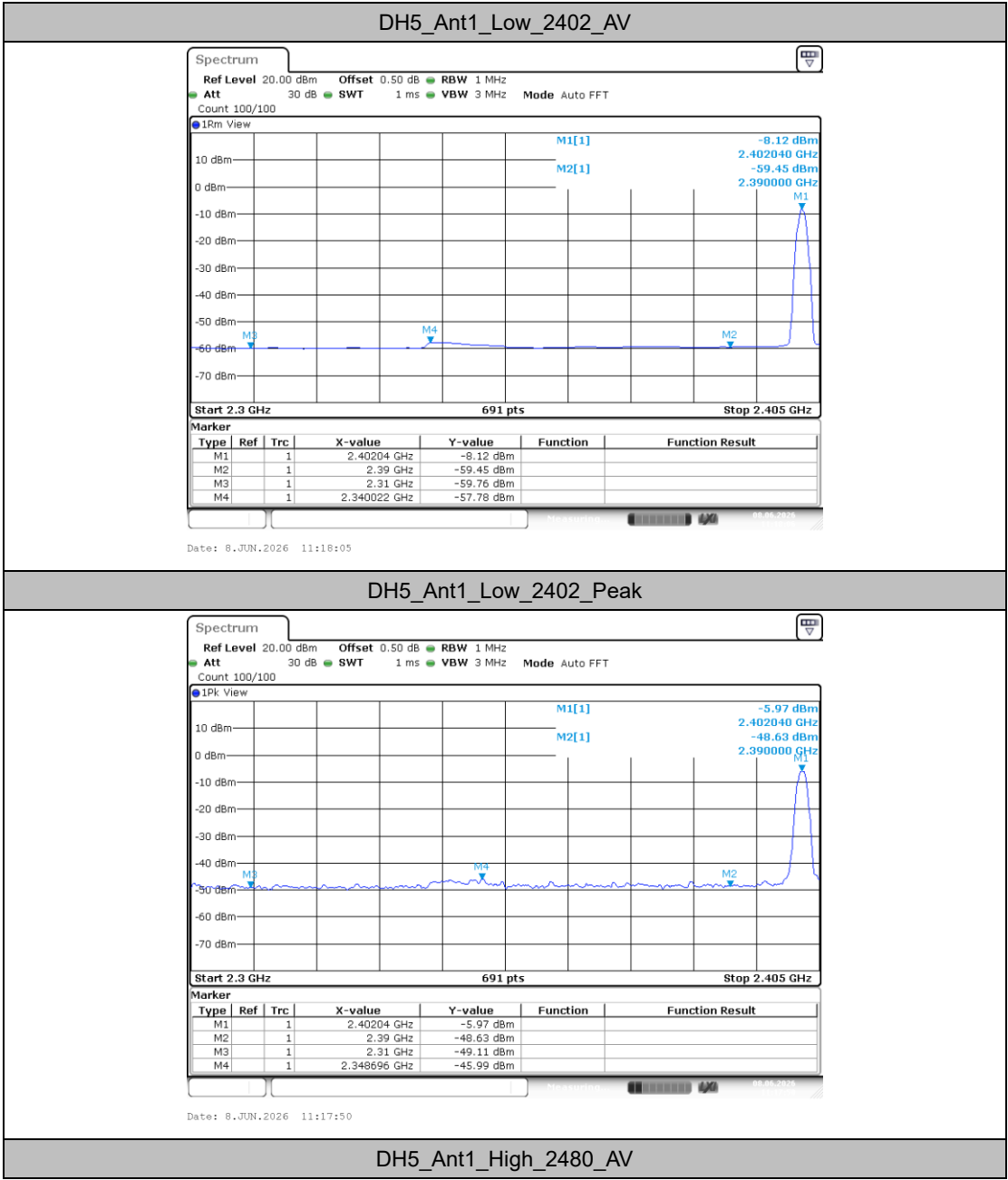
Test Result

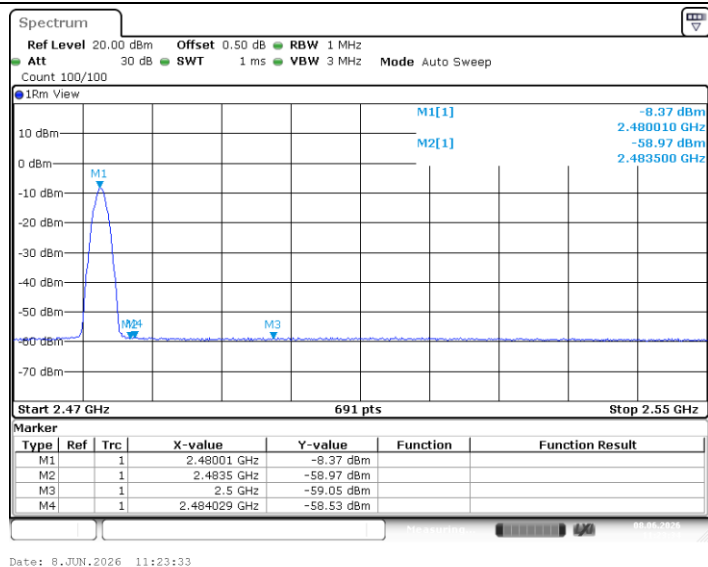
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.76	2.00	1.10	38.54	≤54	PASS
				AV	2340.022	-57.78	2.00	1.10	40.52	≤54	PASS
				AV	2390.000	-59.45	2.00	1.10	38.85	≤54	PASS
				Peak	2310.000	-49.11	2.00	0.00	48.09	≤74	PASS
				Peak	2348.696	-45.99	2.00	0.00	51.21	≤74	PASS
				Peak	2390.000	-48.63	2.00	0.00	48.57	≤74	PASS
		High	2480	AV	2483.500	-58.97	2.00	1.10	39.33	≤54	PASS
				AV	2484.029	-58.53	2.00	1.10	39.77	≤54	PASS
				AV	2500.000	-59.05	2.00	1.10	39.25	≤54	PASS
				Peak	2483.500	-48.43	2.00	0.00	48.77	≤74	PASS
				Peak	2484.841	-47.12	2.00	0.00	50.08	≤74	PASS
				Peak	2500.000	-48.09	2.00	0.00	49.11	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.76	2.00	1.10	38.54	≤54	PASS
				AV	2340.326	-57.79	2.00	1.10	40.51	≤54	PASS
				AV	2390.000	-59.41	2.00	1.10	38.89	≤54	PASS
				Peak	2310.000	-47.87	2.00	0.00	49.33	≤74	PASS
				Peak	2344.283	-46.2	2.00	0.00	51.00	≤74	PASS
				Peak	2390.000	-48.77	2.00	0.00	48.43	≤74	PASS
		High	2480	AV	2483.500	-59.1	2.00	1.10	39.20	≤54	PASS
				AV	2484.261	-58.55	2.00	1.10	39.75	≤54	PASS
				AV	2500.000	-59.25	2.00	1.10	39.05	≤54	PASS
				Peak	2483.500	-47.45	2.00	0.00	49.75	≤74	PASS
				Peak	2484.841	-44.64	2.00	0.00	52.56	≤74	PASS
				Peak	2500.000	-48.48	2.00	0.00	48.72	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.8	2.00	1.10	38.50	≤54	PASS
				AV	2342.913	-57.81	2.00	1.10	40.49	≤54	PASS
				AV	2390.000	-59.44	2.00	1.10	38.86	≤54	PASS
				Peak	2310.000	-48.94	2.00	0.00	48.26	≤74	PASS
				Peak	2340.630	-45.76	2.00	0.00	51.44	≤74	PASS
				Peak	2390.000	-47.06	2.00	0.00	50.14	≤74	PASS
		High	2480	AV	2483.500	-59.08	2.00	1.09	39.21	≤54	PASS
				AV	2484.261	-58.54	2.00	1.09	39.75	≤54	PASS
				AV	2500.000	-58.85	2.00	1.09	39.44	≤54	PASS
				Peak	2483.500	-47.6	2.00	0.00	49.60	≤74	PASS
				Peak	2484.493	-46.66	2.00	0.00	50.54	≤74	PASS
				Peak	2500.000	-48.32	2.00	0.00	48.88	≤74	PASS

Note:

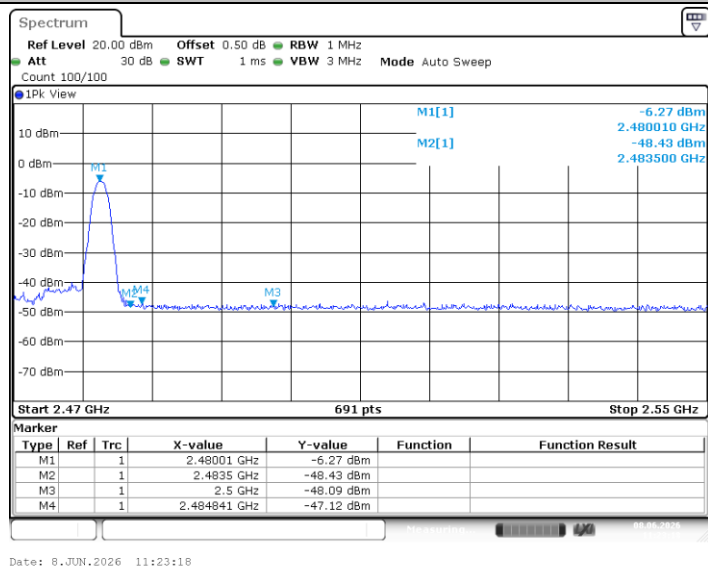
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

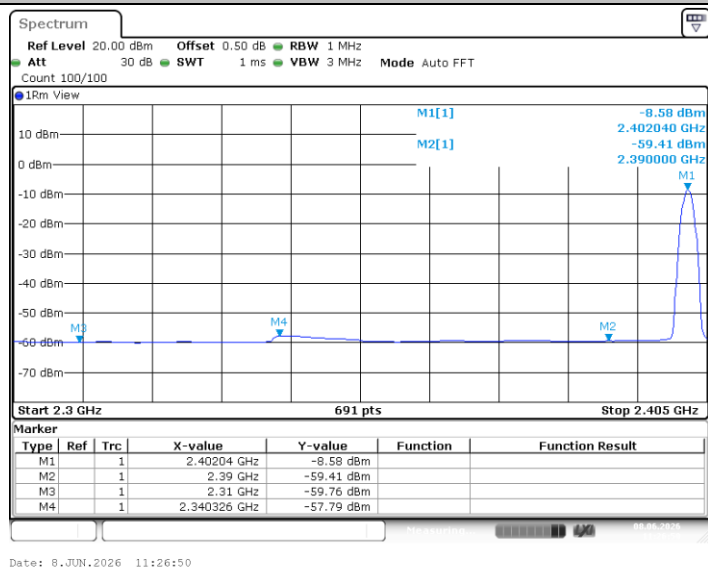




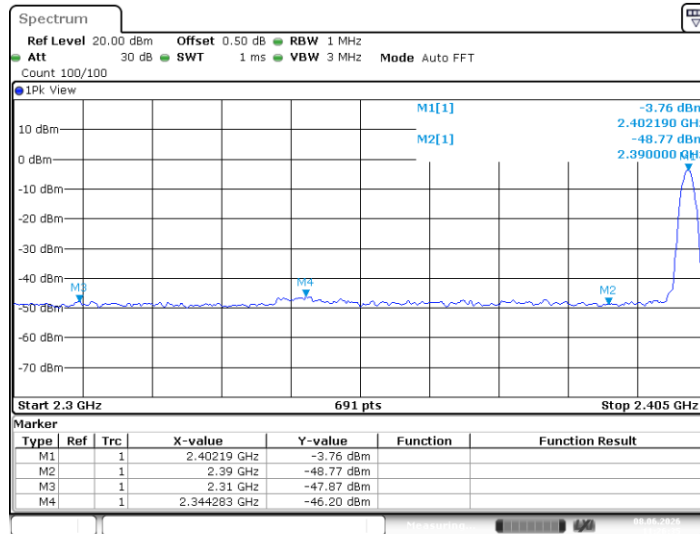
DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV

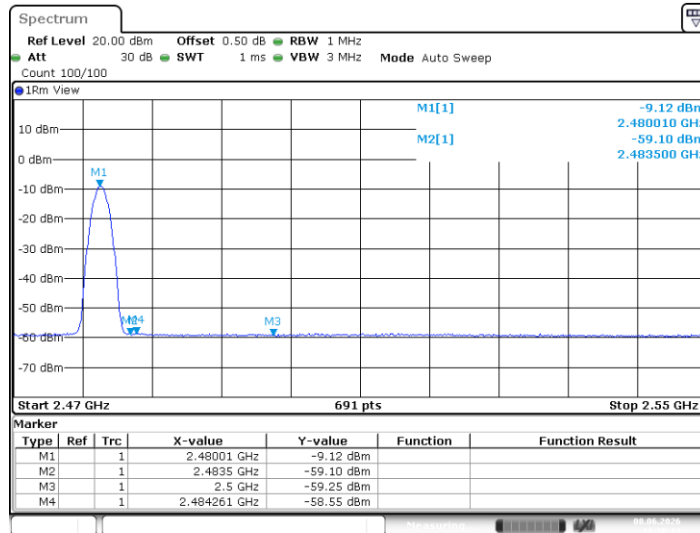


2DH5_Ant1_Low_2402_Peak



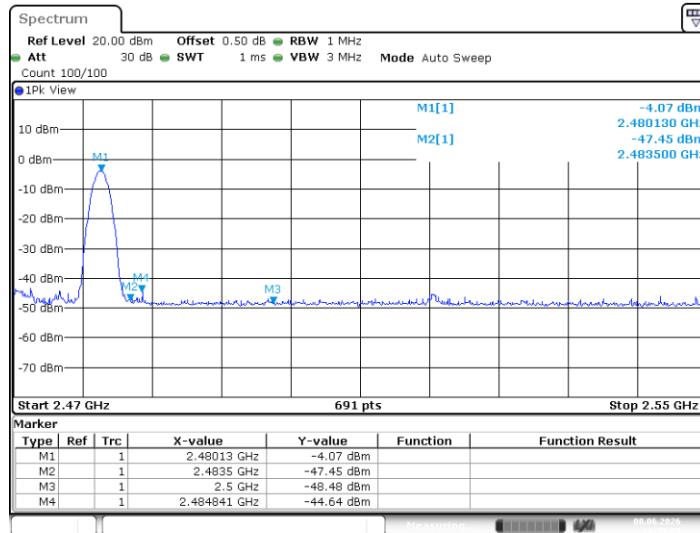
Date: 8.JUN.2026 11:26:35

2DH5_Ant1_High_2480_AV



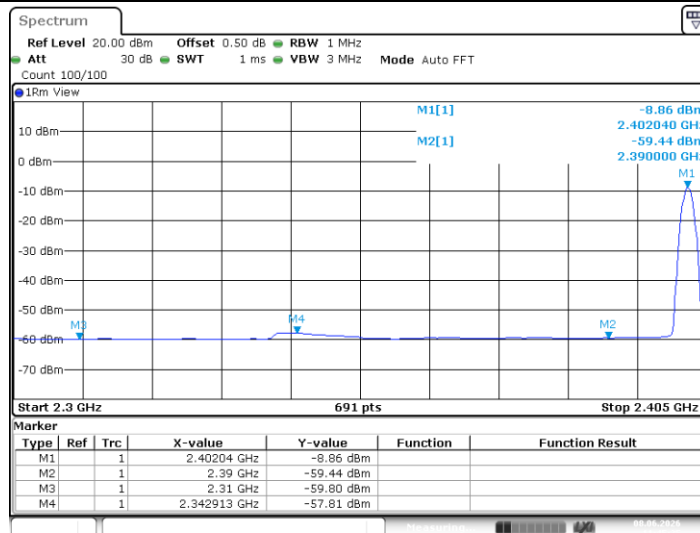
Date: 8.JUN.2026 11:36:14

2DH5_Ant1_High_2480_Peak



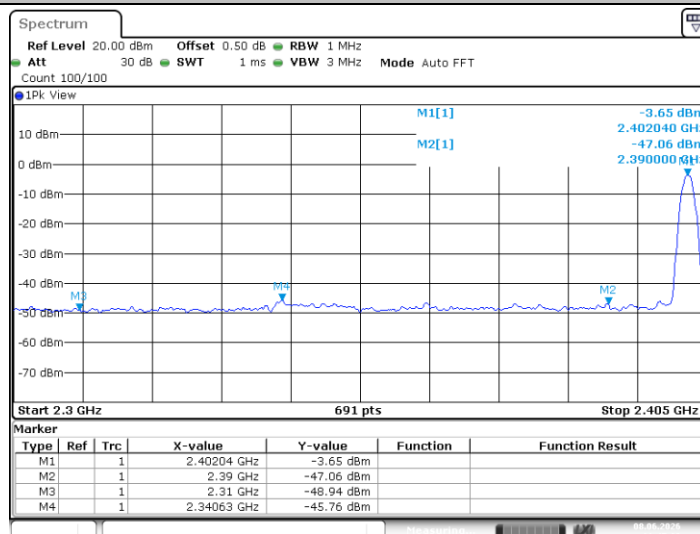
Date: 8.JUN.2026 11:35:59

3DH5_Ant1_Low_2402_AV



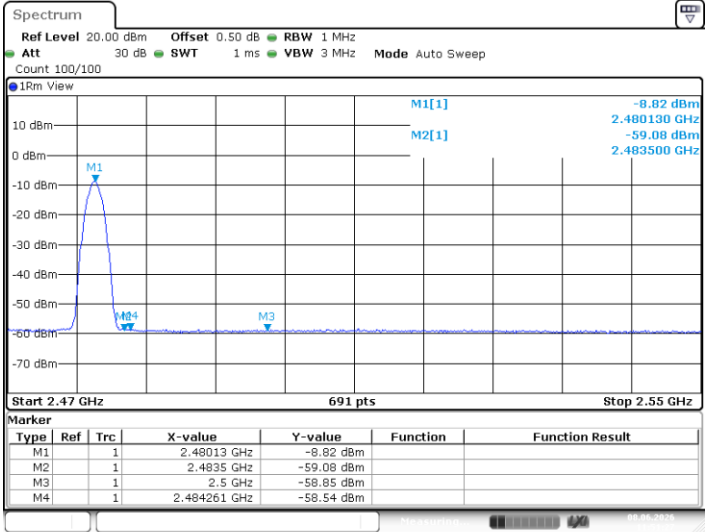
Date: 8.JUN.2026 11:45:35

3DH5_Ant1_Low_2402_Peak



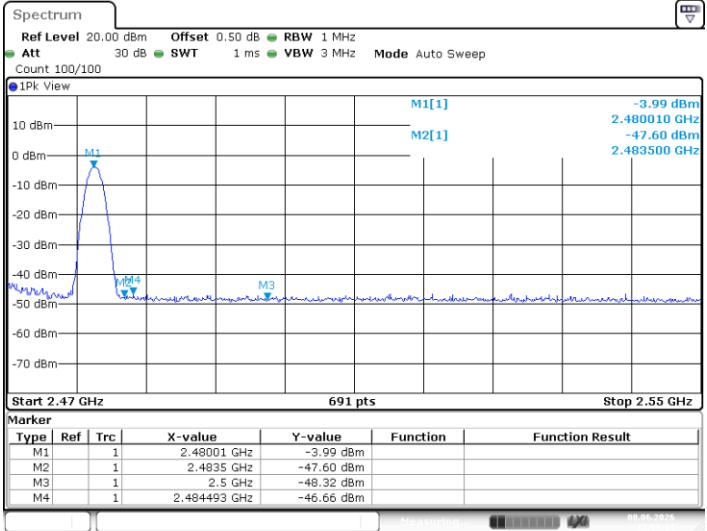
Date: 8.JUN.2026 11:45:20

3DH5_Ant1_High_2480_AV



Date: 8.JUN.2026 11:51:27

3DH5_Ant1_High_2480_Peak



Date: 8.JUN.2026 11:51:12