

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BT4L-M5-CX

Company : Infinity Mobile Limited

EUT : Portable WIFI

Model Number : M5-CX

Report No. : CTA25103000214

Reviewed By : Eric Wang

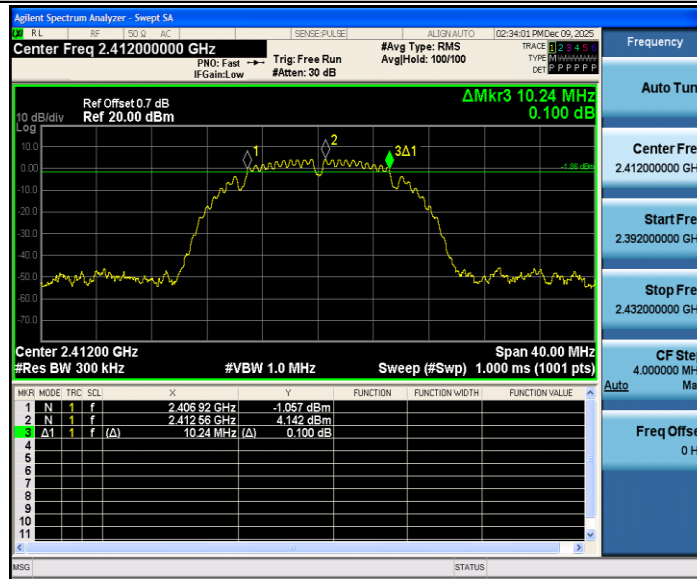
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.880	2404.040	2419.920	0.5	PASS
		2437	16.000	2429.000	2445.000	0.5	PASS
		2462	15.800	2454.040	2469.840	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.560	2420.560	0.5	PASS
		2437	17.280	2428.360	2445.640	0.5	PASS
		2462	17.000	2453.440	2470.440	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.320	2439.920	0.5	PASS
		2437	35.760	2419.160	2454.920	0.5	PASS
		2452	35.760	2434.160	2469.920	0.5	PASS
11AX20SISO	Ant1	2412	17.120	2403.400	2420.520	0.5	PASS
		2437	17.280	2428.360	2445.640	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS
11AX40SISO	Ant1	2422	35.360	2404.480	2439.840	0.5	PASS
		2437	35.440	2419.400	2454.840	0.5	PASS
		2452	35.760	2434.160	2469.920	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



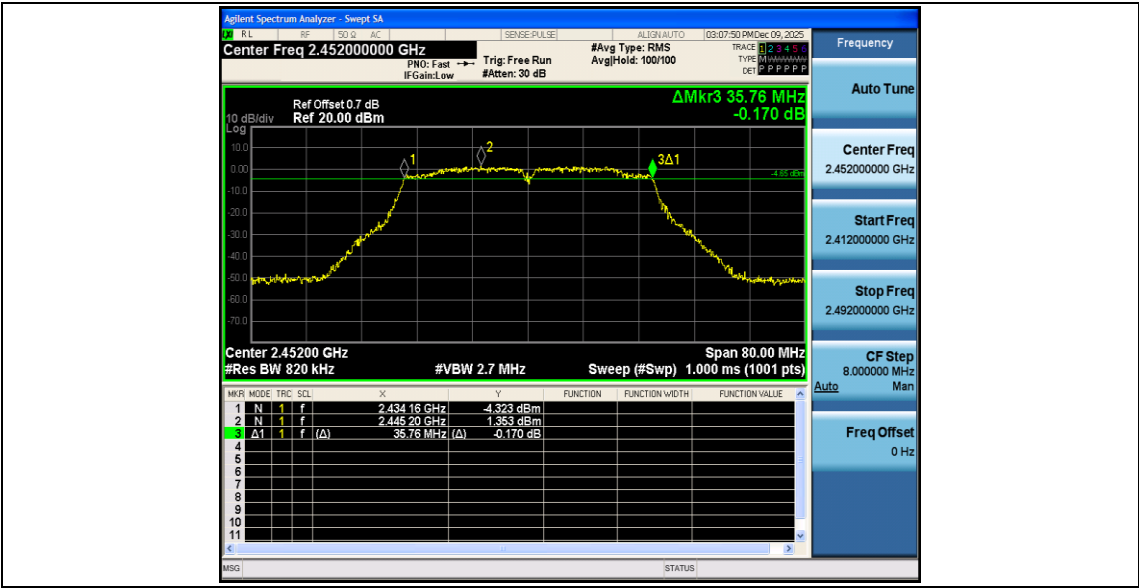
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



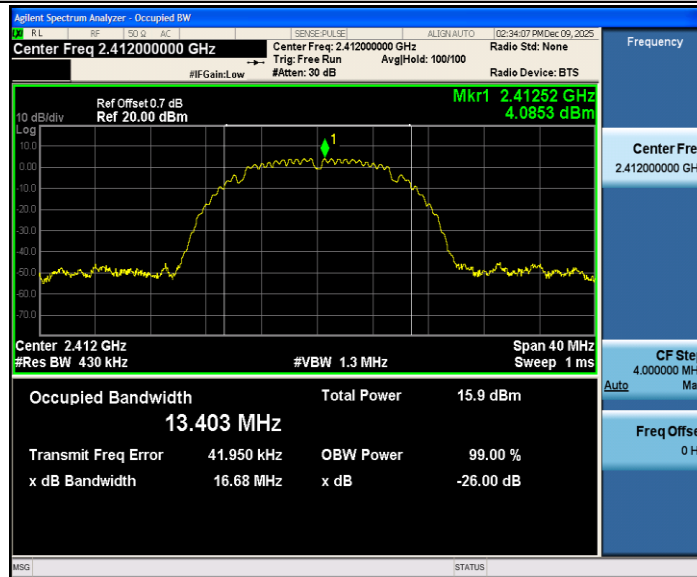
Appendix B: Occupied Channel Bandwidth

Test Result

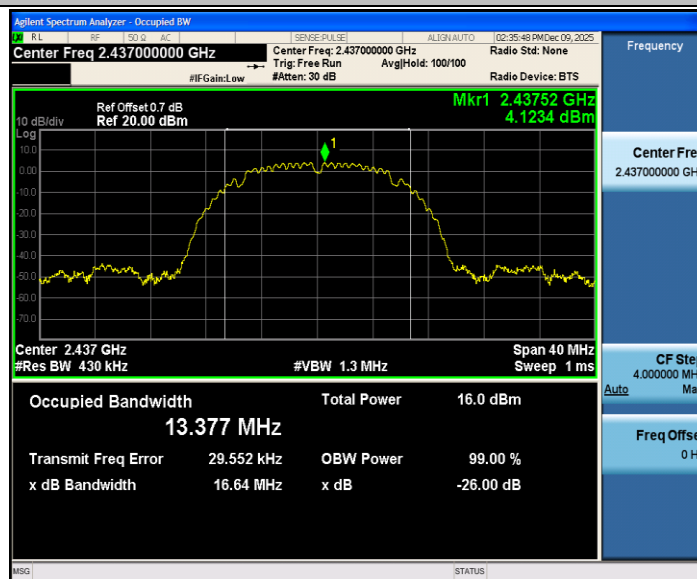
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.403	2405.3405	2418.7435	---	---
		2437	13.377	2430.3411	2443.7181	---	---
		2462	13.393	2455.3156	2468.7086	---	---
11G	Ant1	2412	16.700	2403.7616	2420.4616	---	---
		2437	16.715	2428.6821	2445.3971	---	---
		2462	16.751	2453.6723	2470.4233	---	---
11N20SISO	Ant1	2412	17.845	2403.1001	2420.9451	---	---
		2437	17.768	2428.1406	2445.9086	---	---
		2462	17.812	2453.0804	2470.8924	---	---
11N40SISO	Ant1	2422	36.051	2404.0911	2440.1421	---	---
		2437	36.002	2419.1041	2455.1061	---	---
		2452	35.938	2434.1060	2470.0440	---	---
11AX20SISO	Ant1	2412	17.809	2403.1477	2420.9567	---	---
		2437	17.859	2428.0838	2445.9428	---	---
		2462	17.801	2453.1240	2470.9250	---	---
11AX40SISO	Ant1	2422	36.077	2404.0841	2440.1611	---	---
		2437	36.050	2419.0549	2455.1049	---	---
		2452	36.076	2434.0803	2470.1563	---	---

Test Graphs

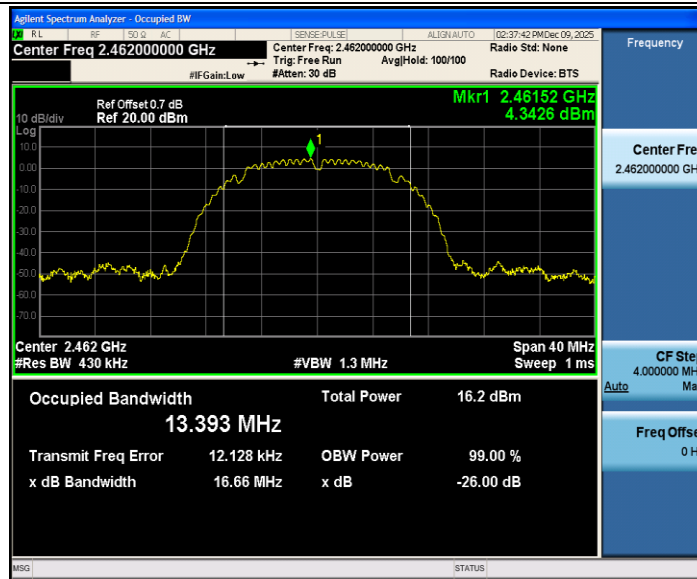
11B_Ant1_2412



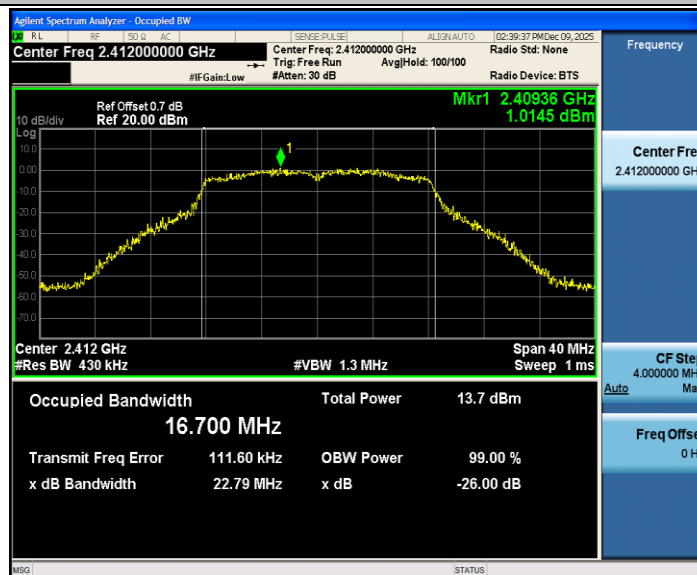
11B_Ant1_2437



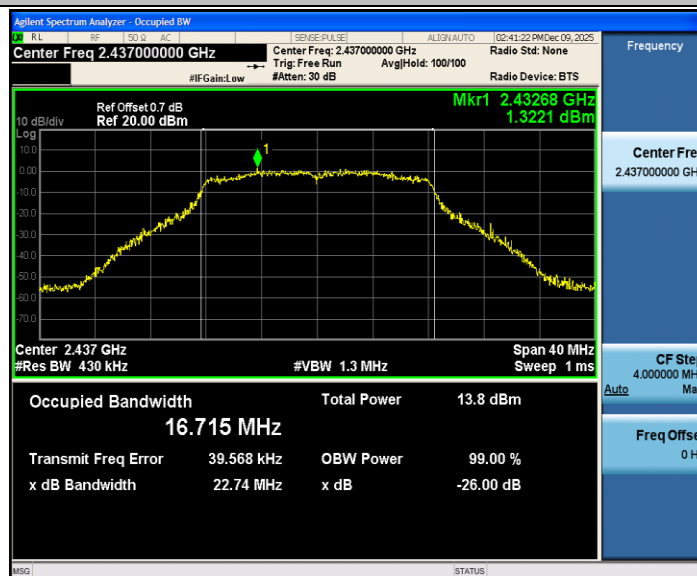
11B_Ant1_2462



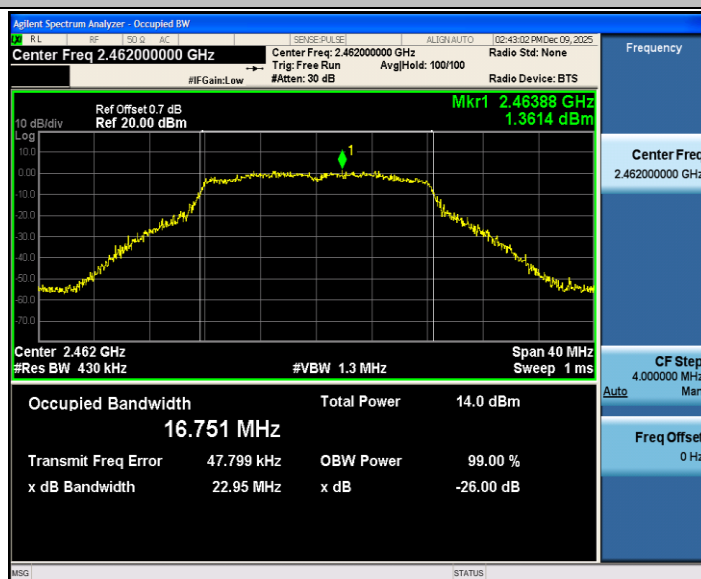
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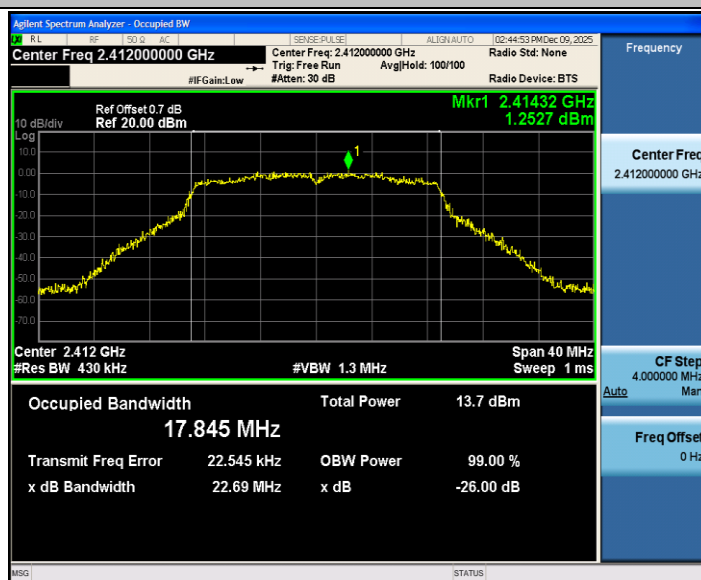
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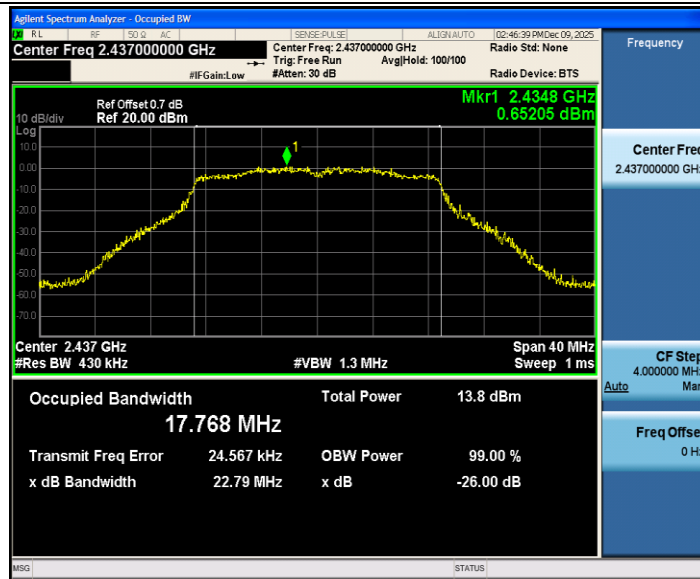
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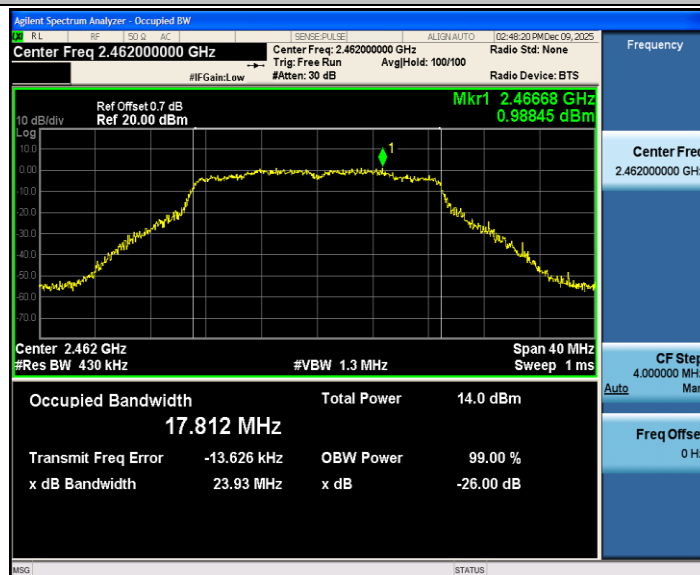
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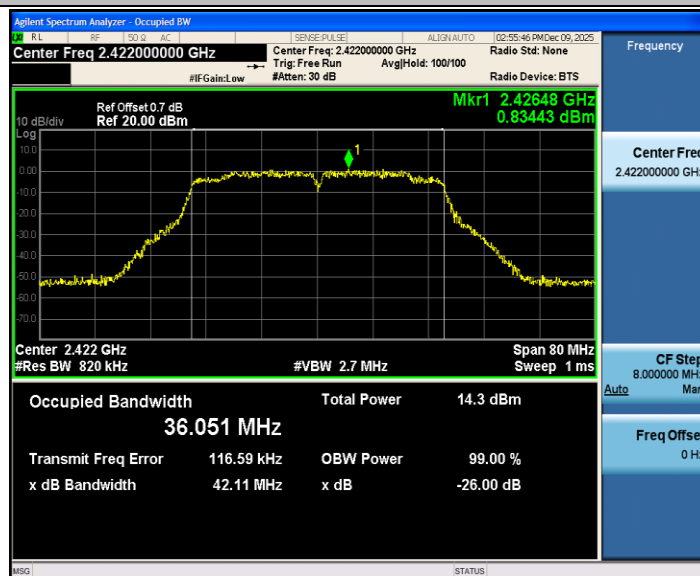
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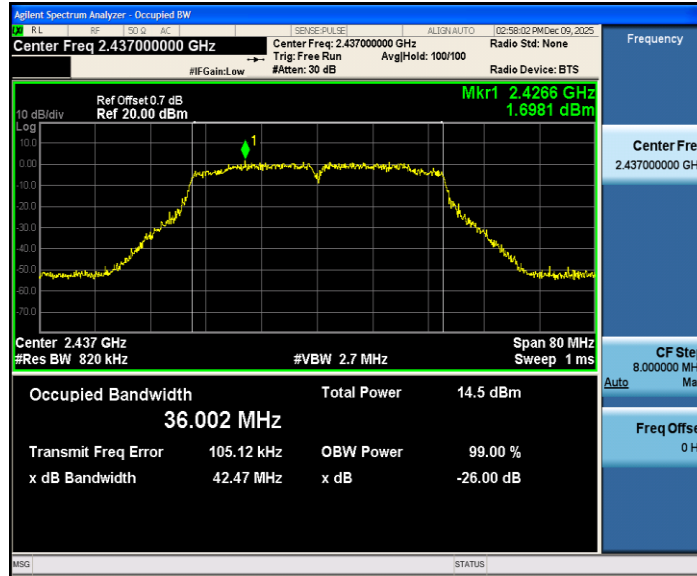
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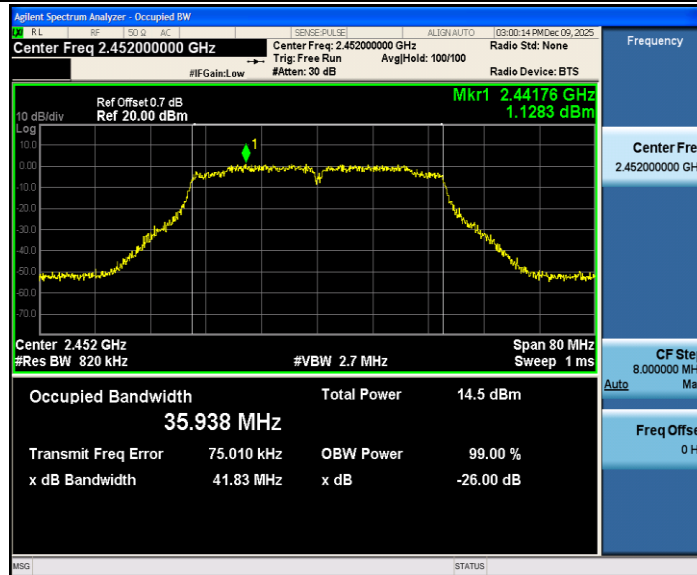
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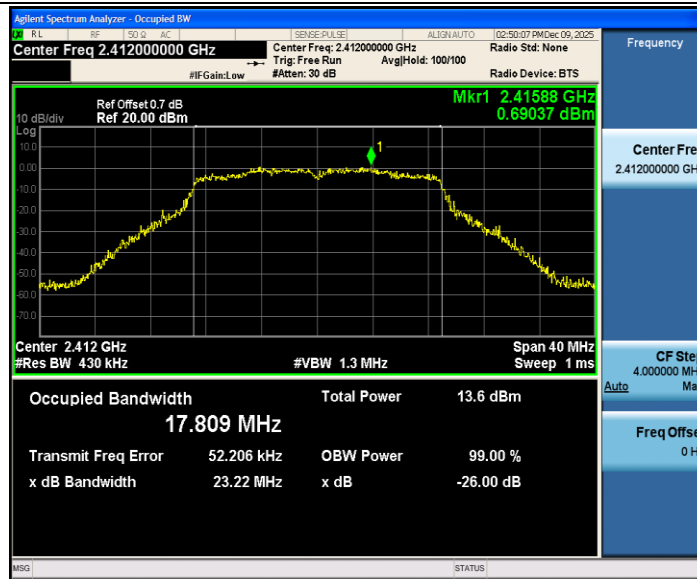
11N40SISO_Ant1_2437



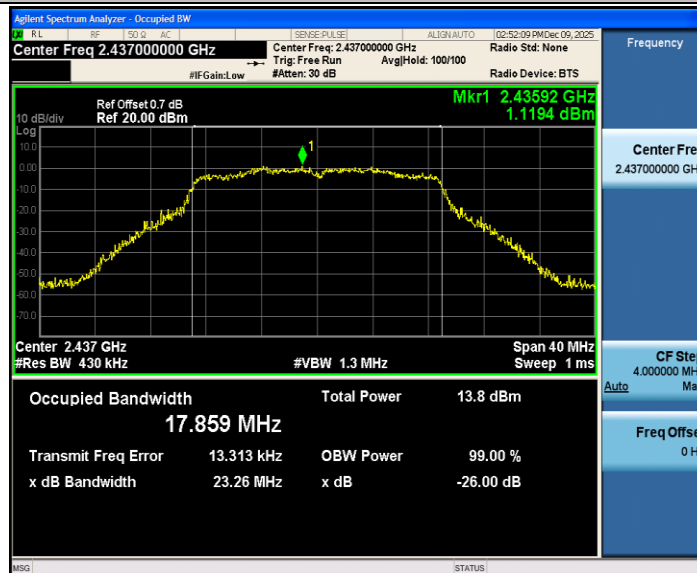
11N40SISO_Ant1_2452



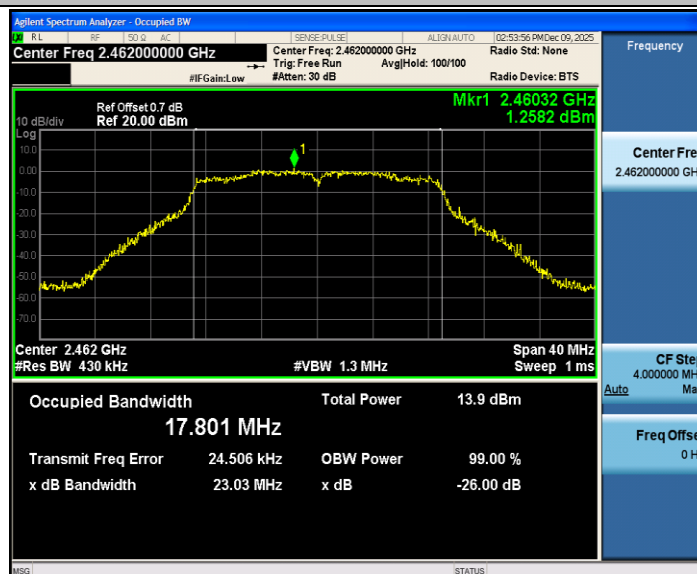
11AX20SISO_Ant1_2412



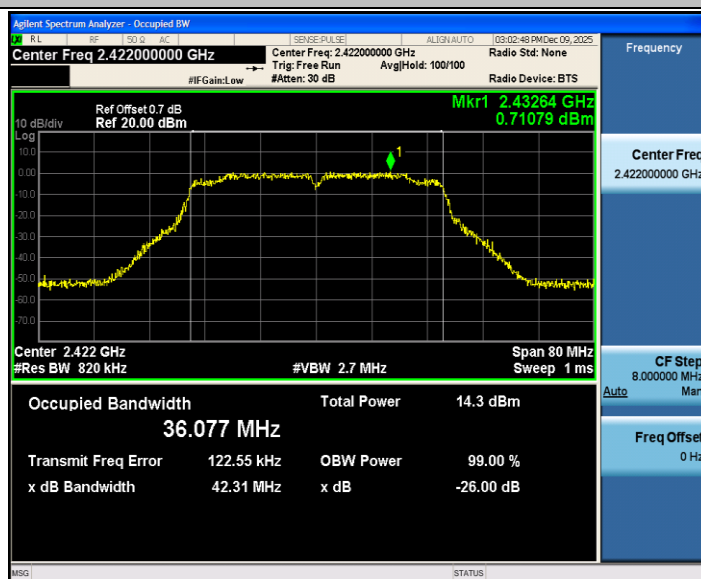
11AX20SISO_Ant1_2437



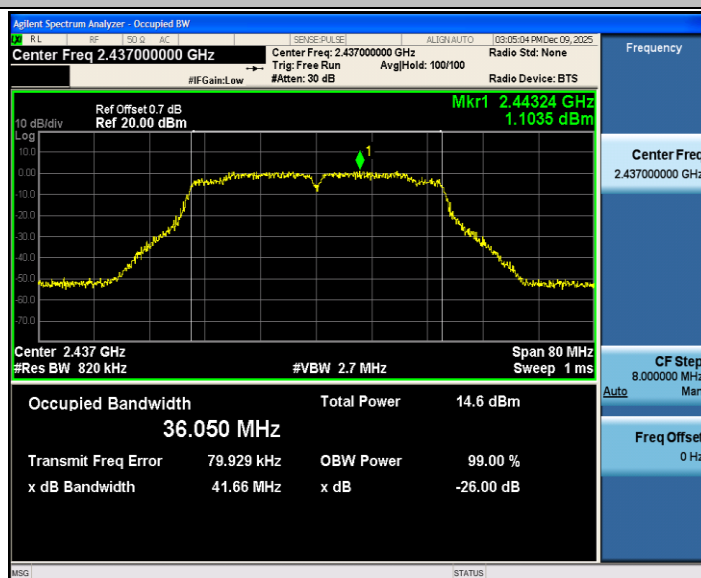
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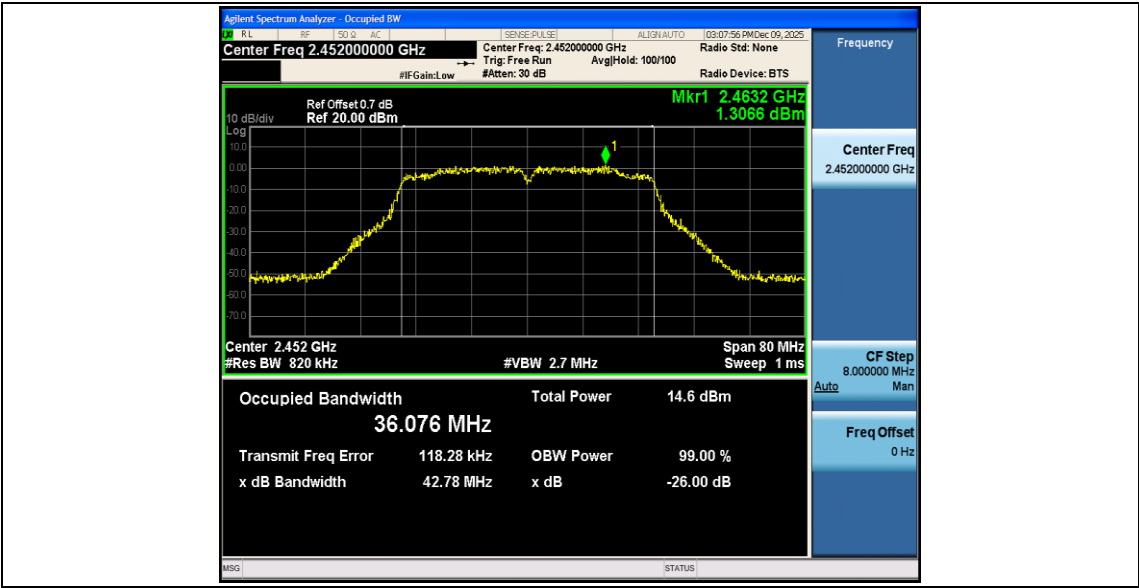
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.77	≤30.00	PASS
		2437	15.81	≤30.00	PASS
		2462	16.04	≤30.00	PASS
11G	Ant1	2412	14.31	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	14.59	≤30.00	PASS
11N20SISO	Ant1	2412	14.16	≤30.00	PASS
		2437	14.39	≤30.00	PASS
		2462	14.53	≤30.00	PASS
11N40SISO	Ant1	2422	14.63	≤30.00	PASS
		2437	14.68	≤30.00	PASS
		2452	14.84	≤30.00	PASS
11AX20SISO	Ant1	2412	14.13	≤30.00	PASS
		2437	14.24	≤30.00	PASS
		2462	14.70	≤30.00	PASS
11AX40SISO	Ant1	2422	14.47	≤30.00	PASS
		2437	14.65	≤30.00	PASS
		2452	14.92	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.60	≤8.00	PASS
		2437	-10.08	≤8.00	PASS
		2462	-9.70	≤8.00	PASS
11G	Ant1	2412	-16.75	≤8.00	PASS
		2437	-16.50	≤8.00	PASS
		2462	-16.63	≤8.00	PASS
11N20SISO	Ant1	2412	-16.23	≤8.00	PASS
		2437	-16.66	≤8.00	PASS
		2462	-15.00	≤8.00	PASS
11N40SISO	Ant1	2422	-19.59	≤8.00	PASS
		2437	-18.77	≤8.00	PASS
		2452	-18.56	≤8.00	PASS
11AX20SISO	Ant1	2412	-15.01	≤8.00	PASS
		2437	-16.16	≤8.00	PASS
		2462	-16.30	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.09	≤8.00	PASS
		2437	-19.14	≤8.00	PASS
		2452	-18.95	≤8.00	PASS

Test Graphs

11B_Ant1_2412



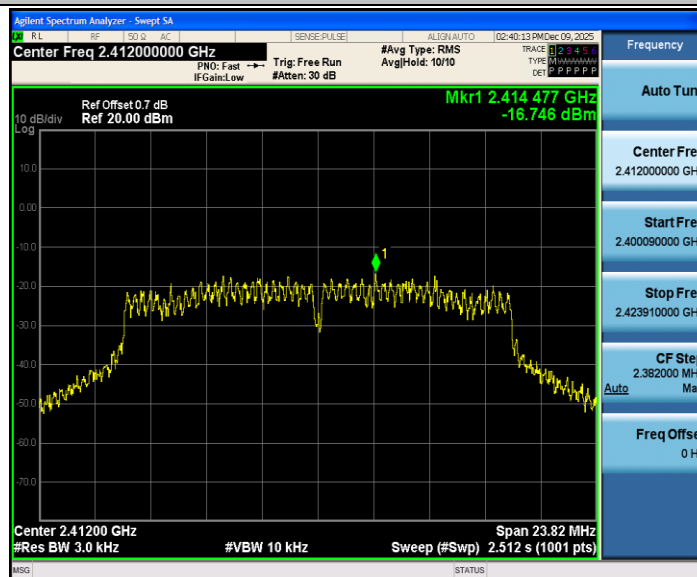
11B_Ant1_2437



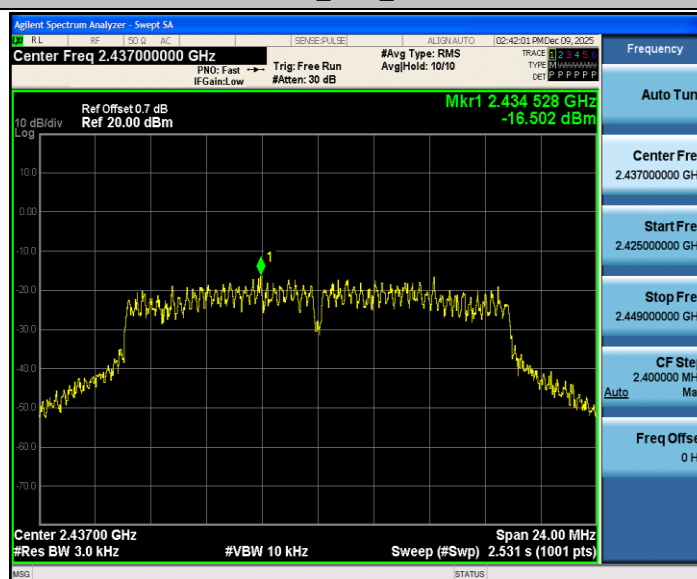
11B_Ant1_2462



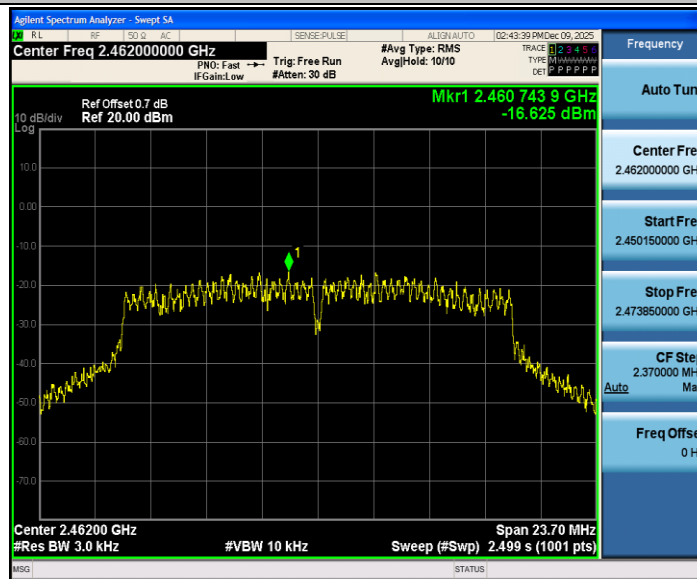
11G_Ant1_2412



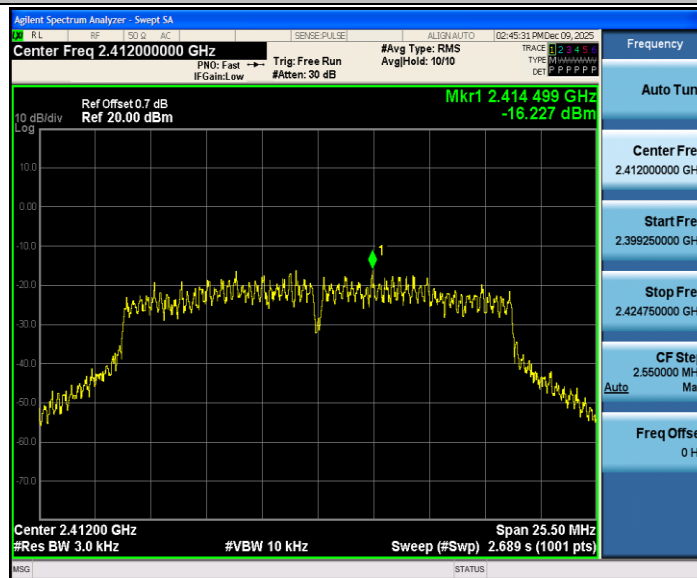
11G_Ant1_2437



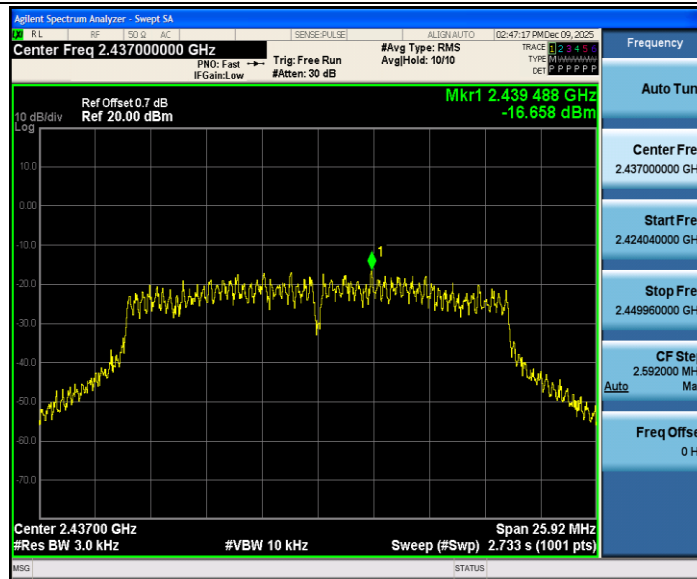
11G_Ant1_2462



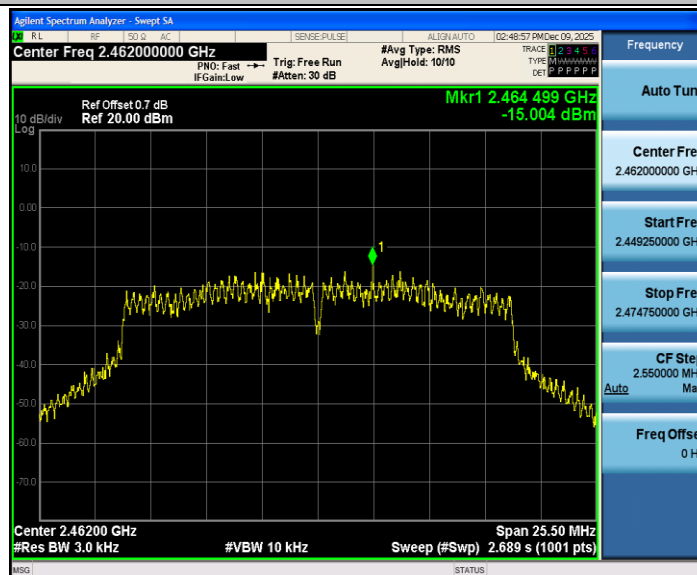
11N20SISO_Ant1_2412



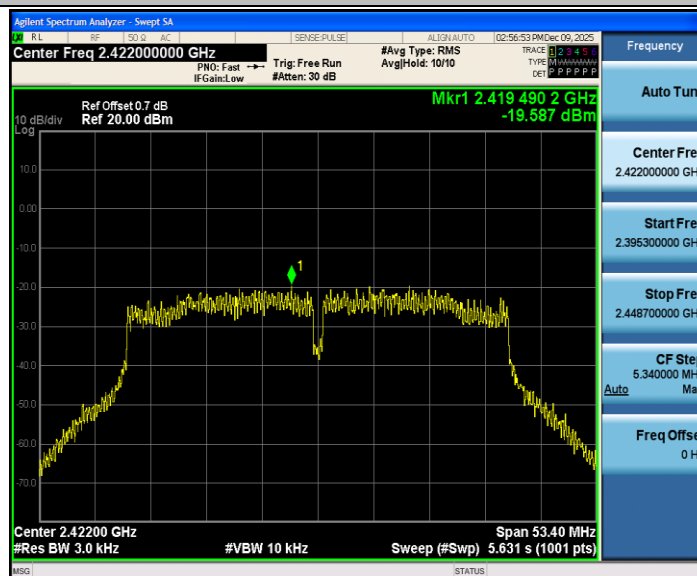
11N20SISO_Ant1_2437



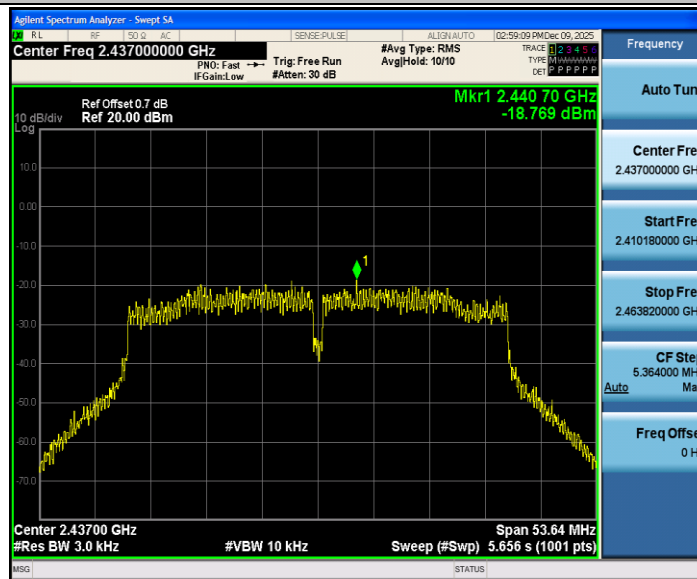
11N20SISO_Ant1_2462



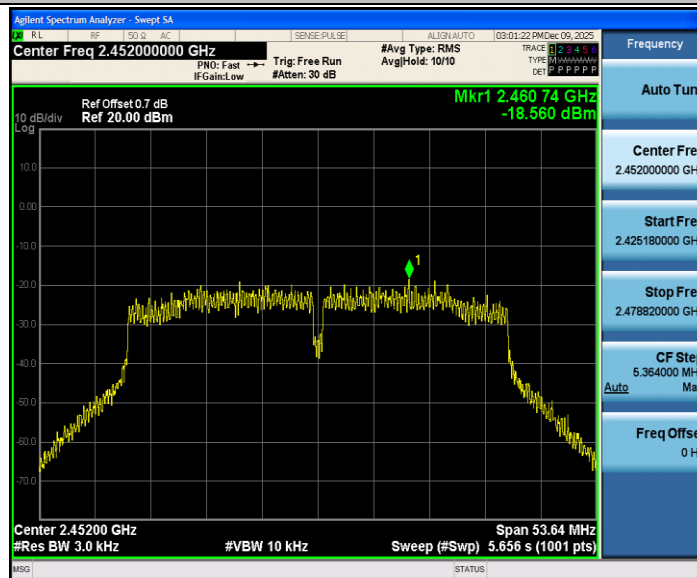
11N40SISO_Ant1_2422



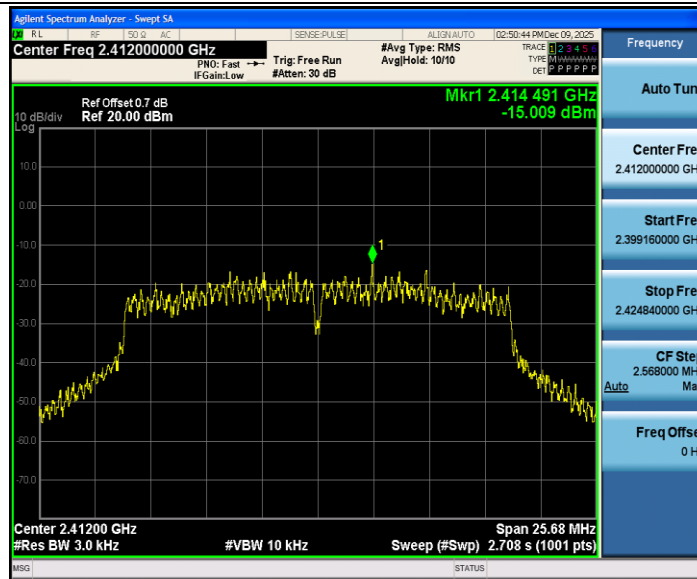
11N40SISO_Ant1_2437



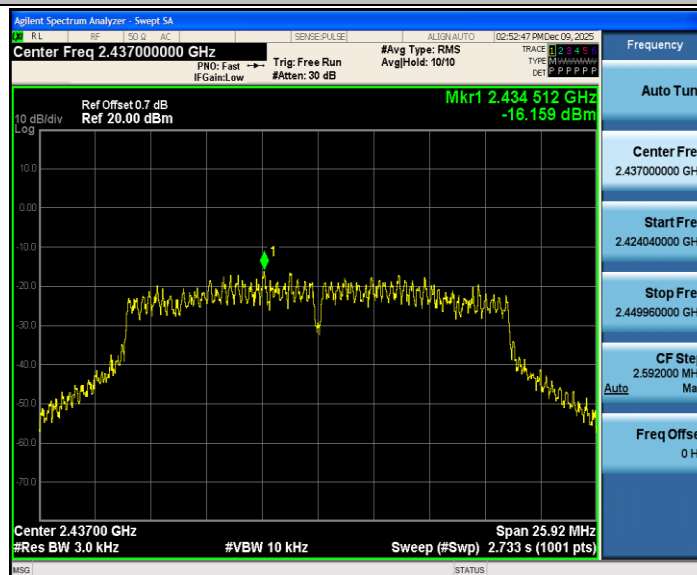
11N40SISO_Ant1_2452



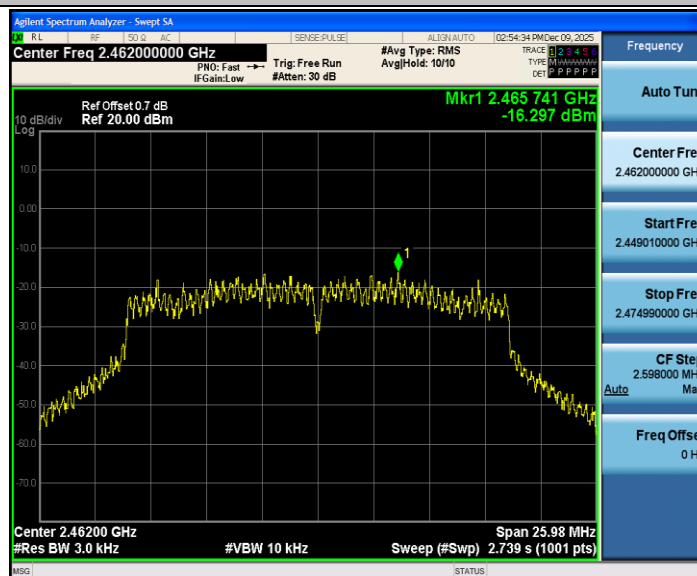
11AX20SISO_Ant1_2412



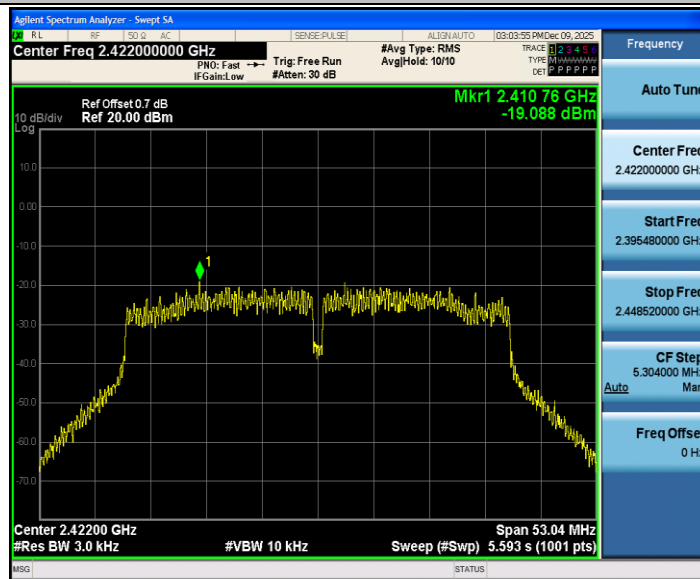
11AX20SISO_Ant1_2437



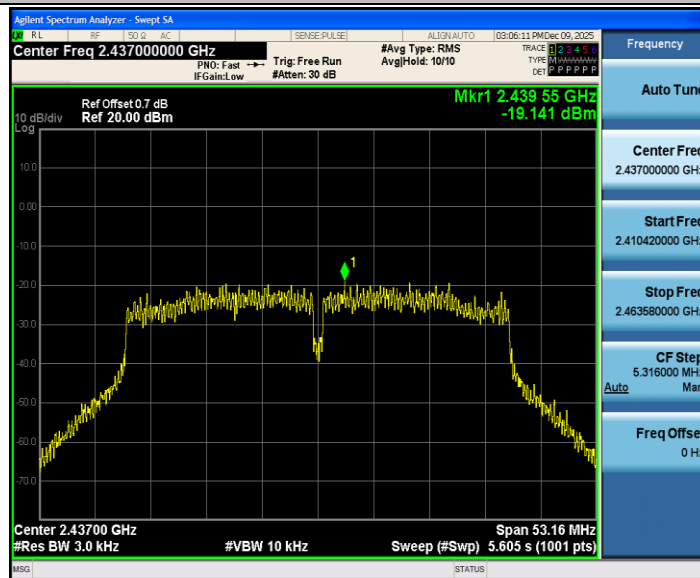
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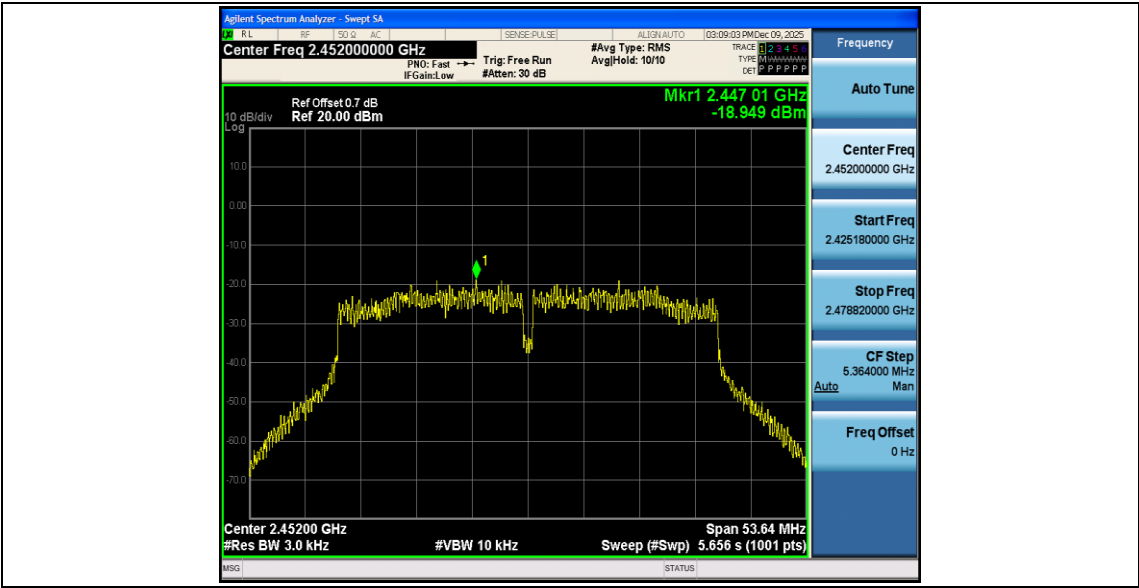
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.58	-48.9	≤-16.42	PASS
		High	2462	3.92	-51.71	≤-16.08	PASS
11G	Ant1	Low	2412	-1.42	-33.43	≤-21.42	PASS
		High	2462	-1.02	-56.2	≤-21.02	PASS
11N20SISO	Ant1	Low	2412	-1.67	-33.51	≤-21.67	PASS
		High	2462	-1.20	-56.93	≤-21.2	PASS
11N40SISO	Ant1	Low	2422	-4.56	-32.41	≤-24.56	PASS
		High	2452	-4.29	-56.95	≤-24.29	PASS
11AX20SISO	Ant1	Low	2412	-1.31	-33.05	≤-21.31	PASS
		High	2462	-1.31	-56.66	≤-21.31	PASS
11AX40SISO	Ant1	Low	2422	-4.69	-32.43	≤-24.69	PASS
		High	2452	-4.35	-56.75	≤-24.35	PASS