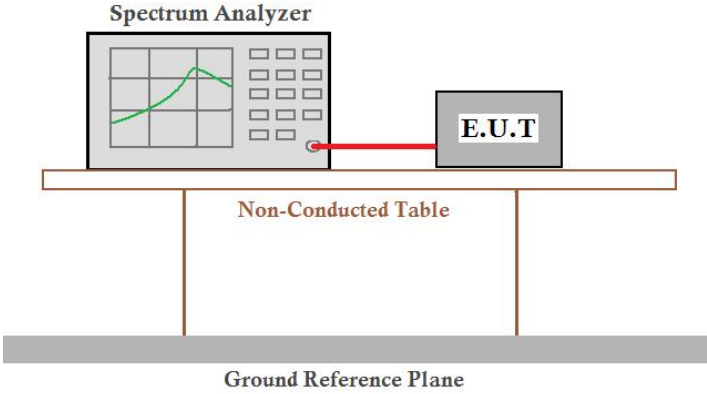


5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

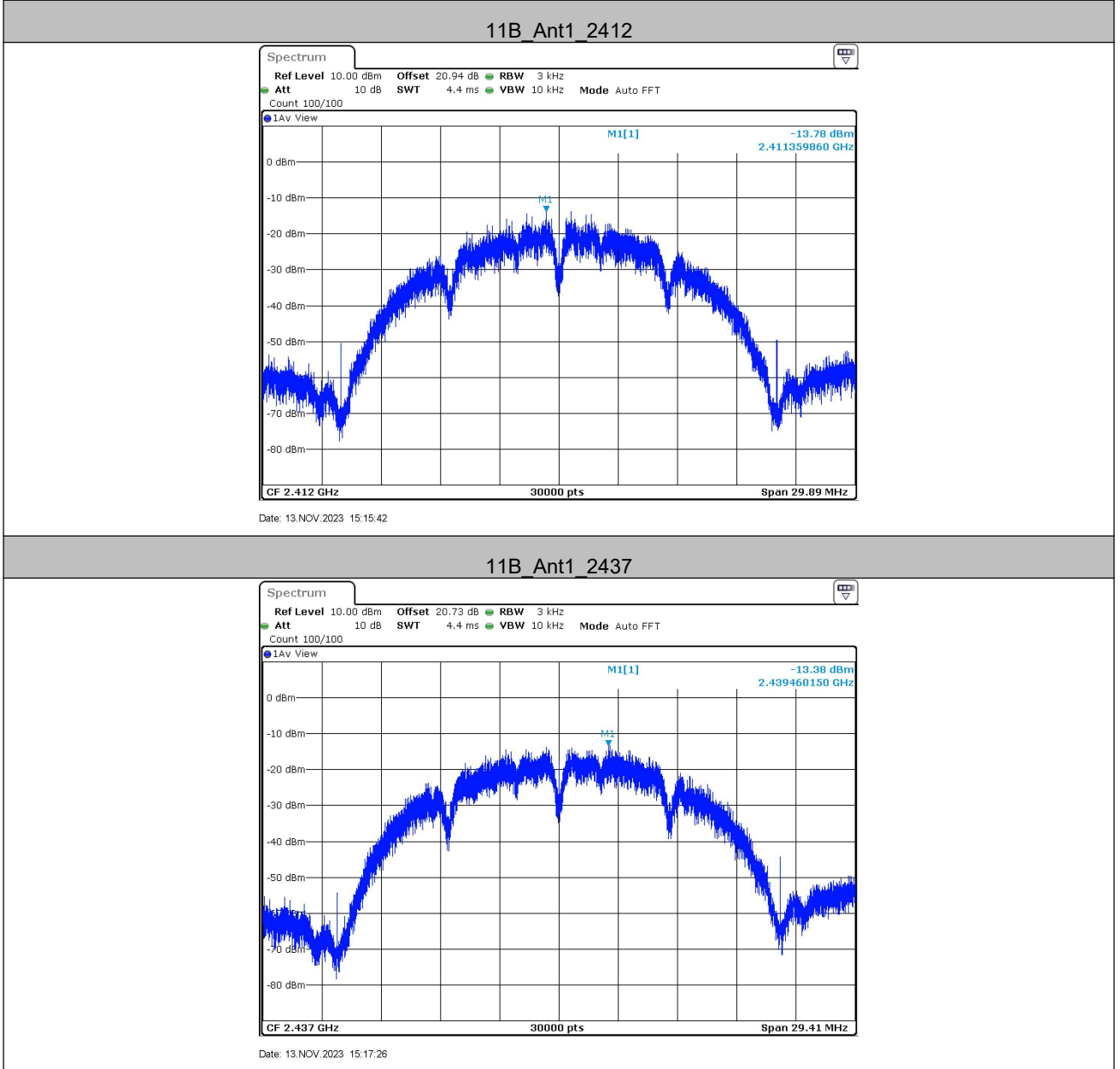
Test Result

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-13.78	≤8.00	PASS
	2437	-13.38	≤8.00	PASS
	2462	-11.4	≤8.00	PASS
11G	2412	-14.52	≤8.00	PASS
	2437	-10.81	≤8.00	PASS
	2462	-8.86	≤8.00	PASS
11N20SISO	2412	-14.48	≤8.00	PASS
	2437	-13.55	≤8.00	PASS
	2462	-11.41	≤8.00	PASS

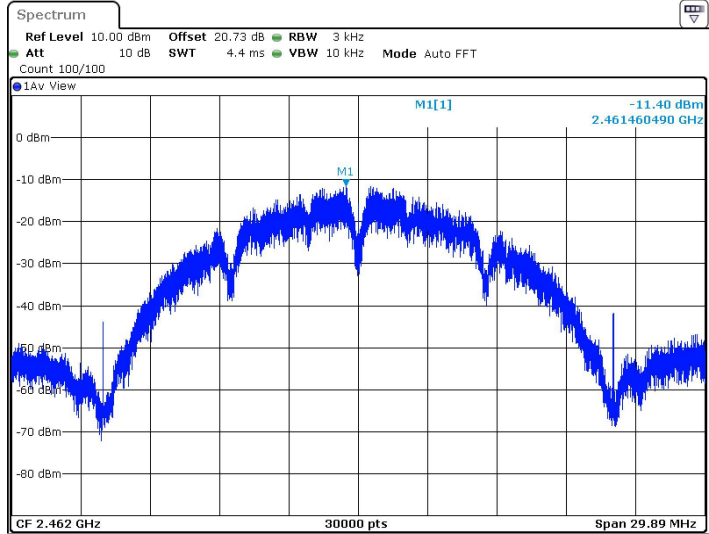
Note:

When Duty cycle >98%, D.C.F is not required.

Test Graphs

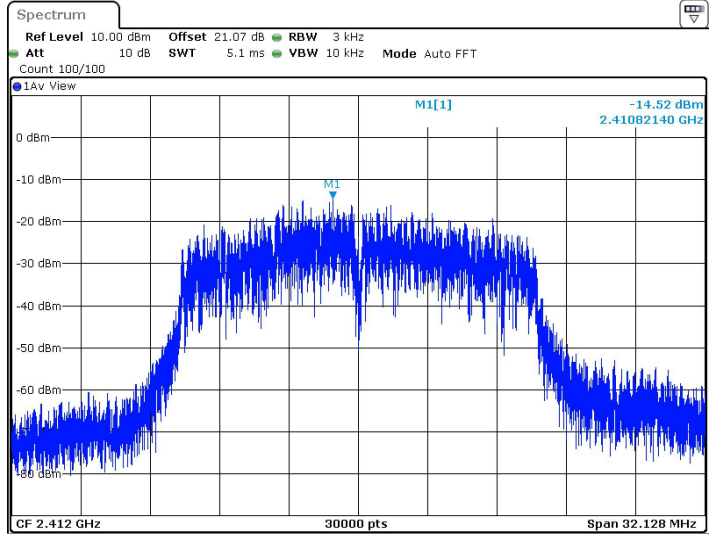


11B Ant1_2462

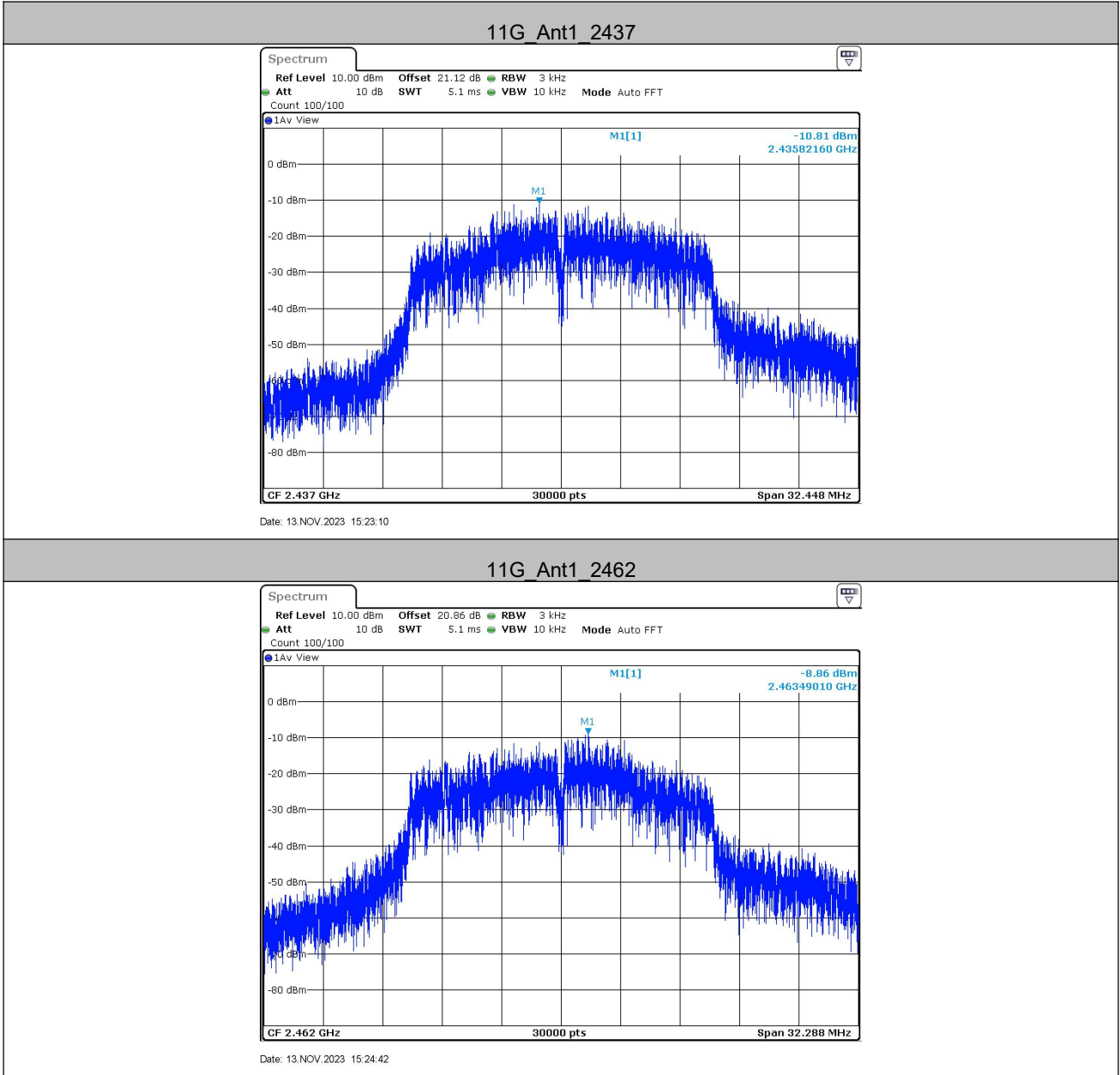


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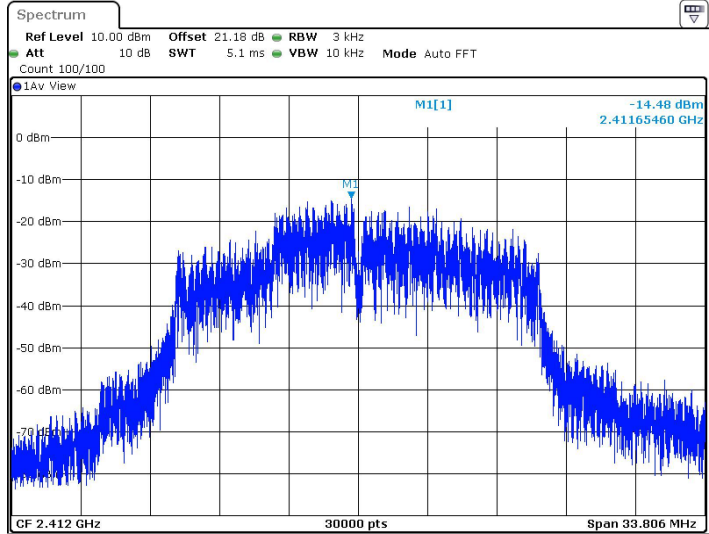
11G Ant1_2412



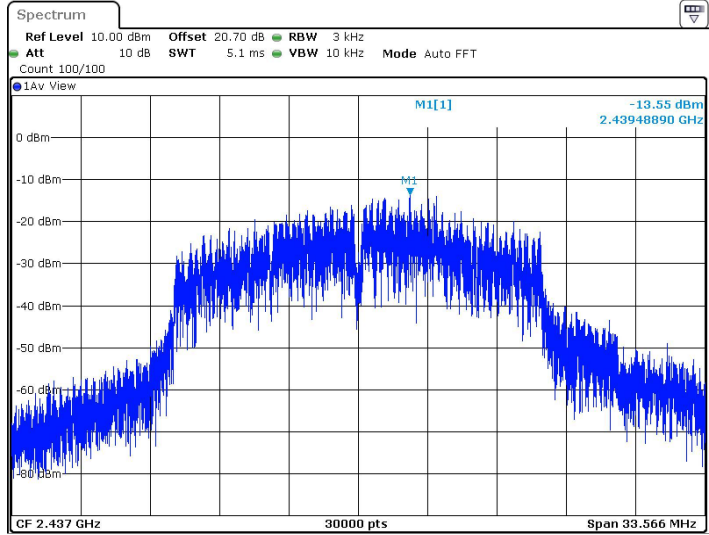
Date: 13.NOV.2023 15:21:27

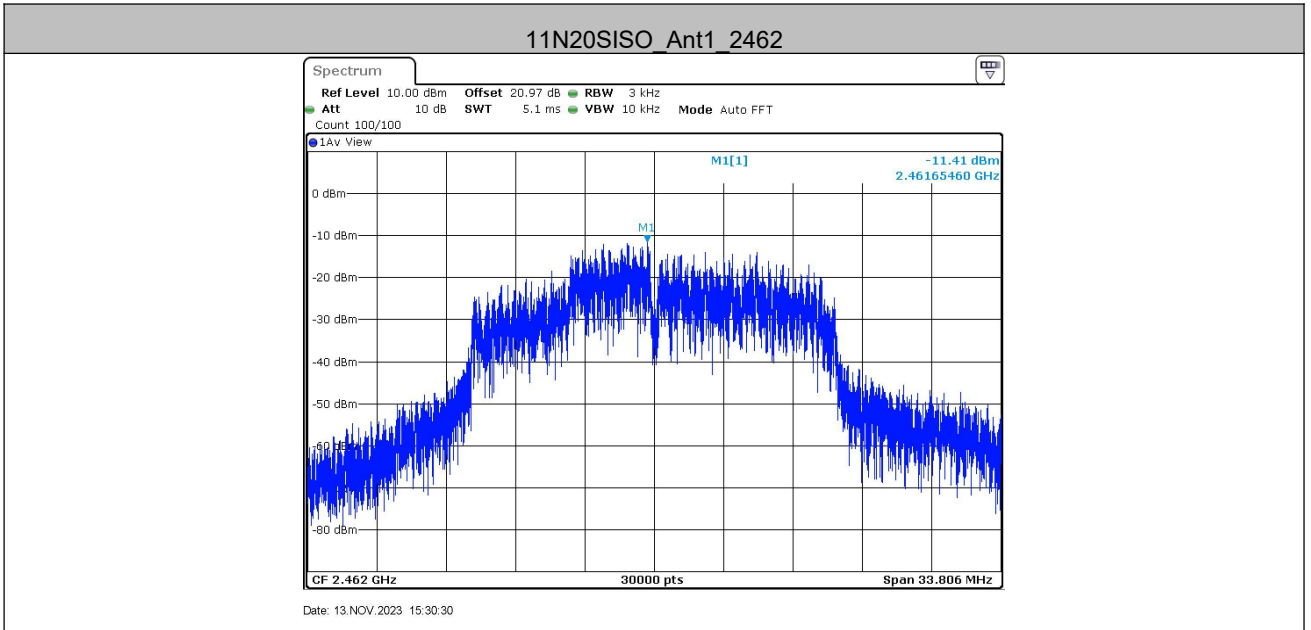


11N20SISO_Ant1_2412

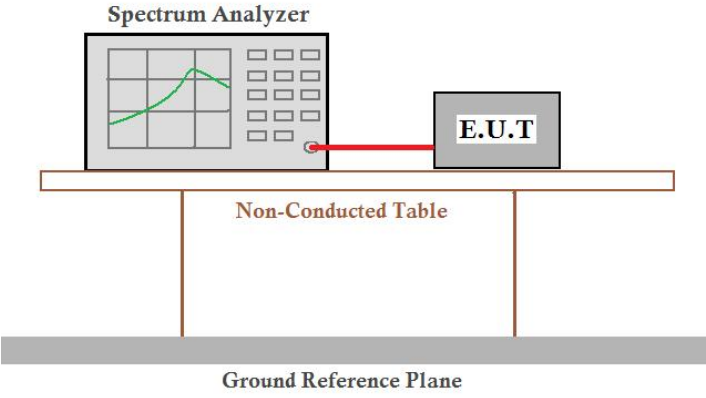


11N20SISO_Ant1_2437





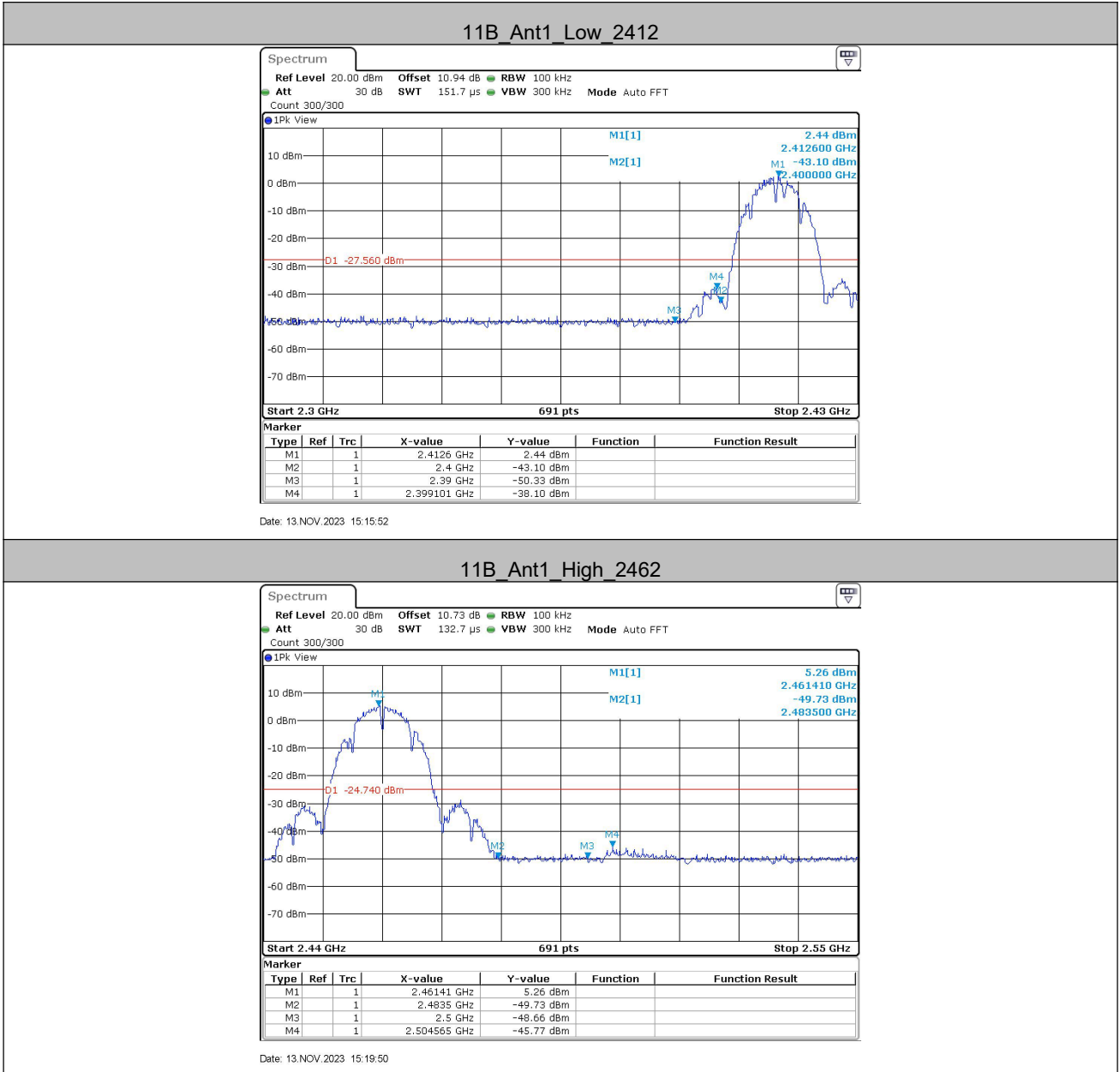
5.6 Band-edge for RF Conducted Emissions

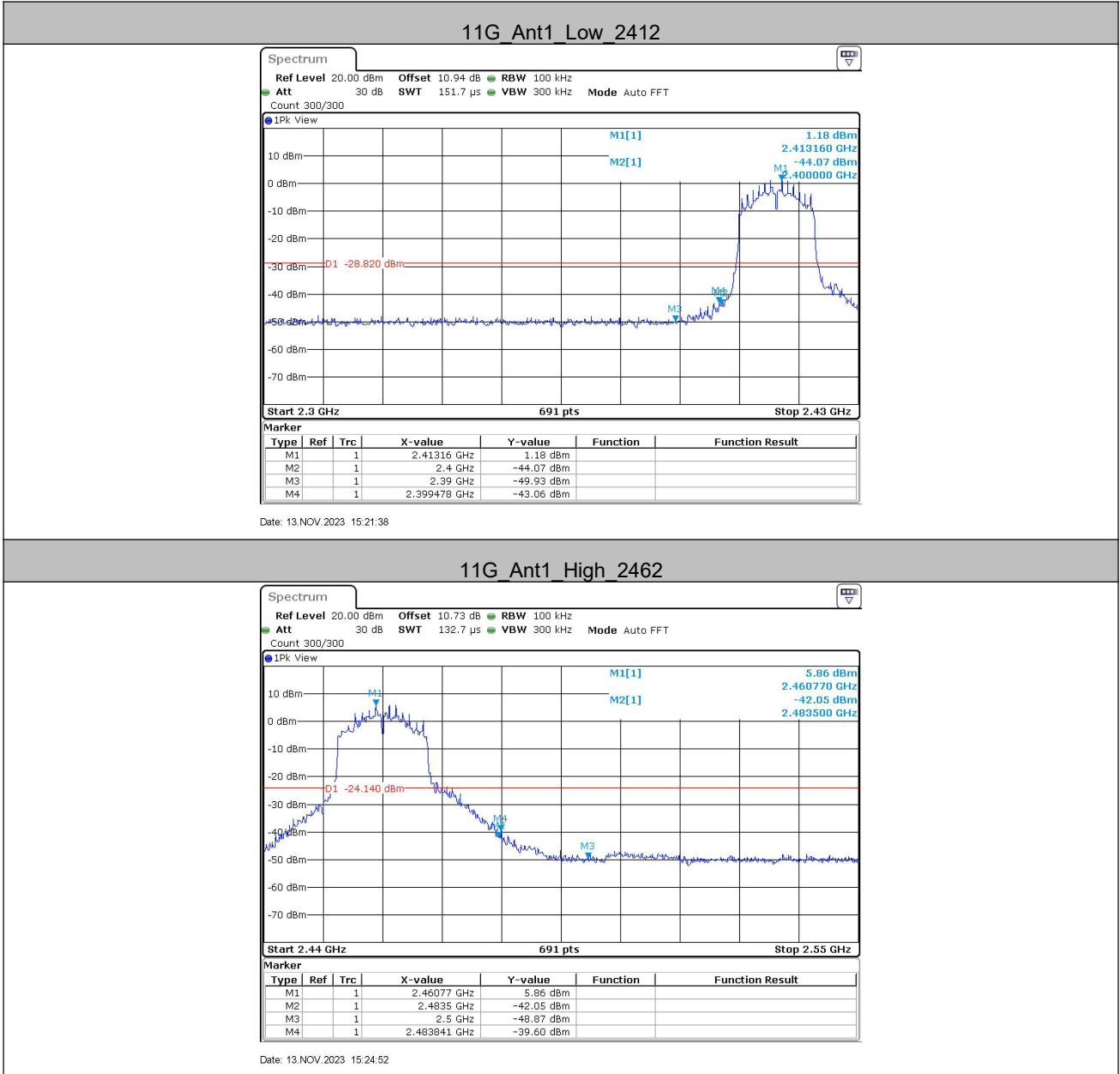
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Test Result

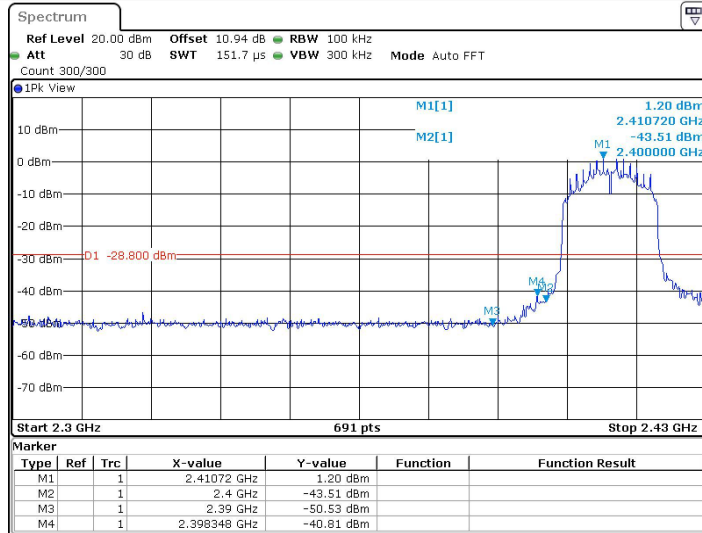
TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	2.44	-38.1	≤-27.56	PASS
	High	2462	5.26	-45.77	≤-24.74	PASS
11G	Low	2412	1.18	-43.06	≤-28.82	PASS
	High	2462	5.86	-39.6	≤-24.14	PASS
11N20SISO	Low	2412	1.20	-40.81	≤-28.8	PASS
	High	2462	4.53	-44.05	≤-25.47	PASS

5.6.1 Test Graphs

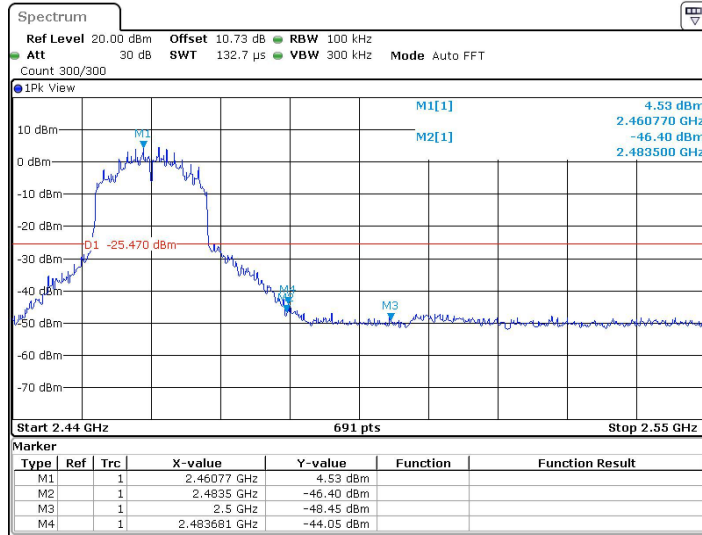




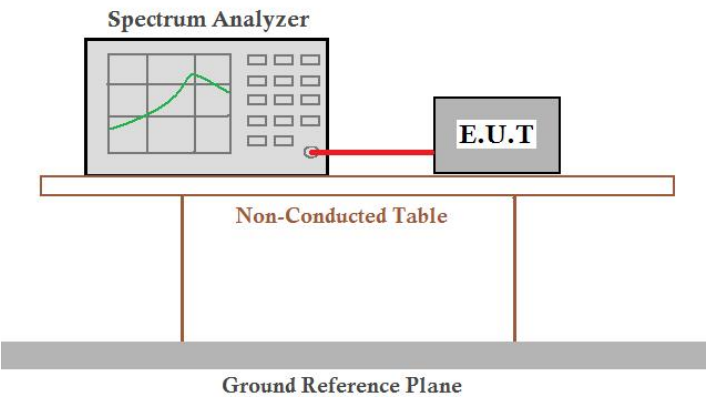
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



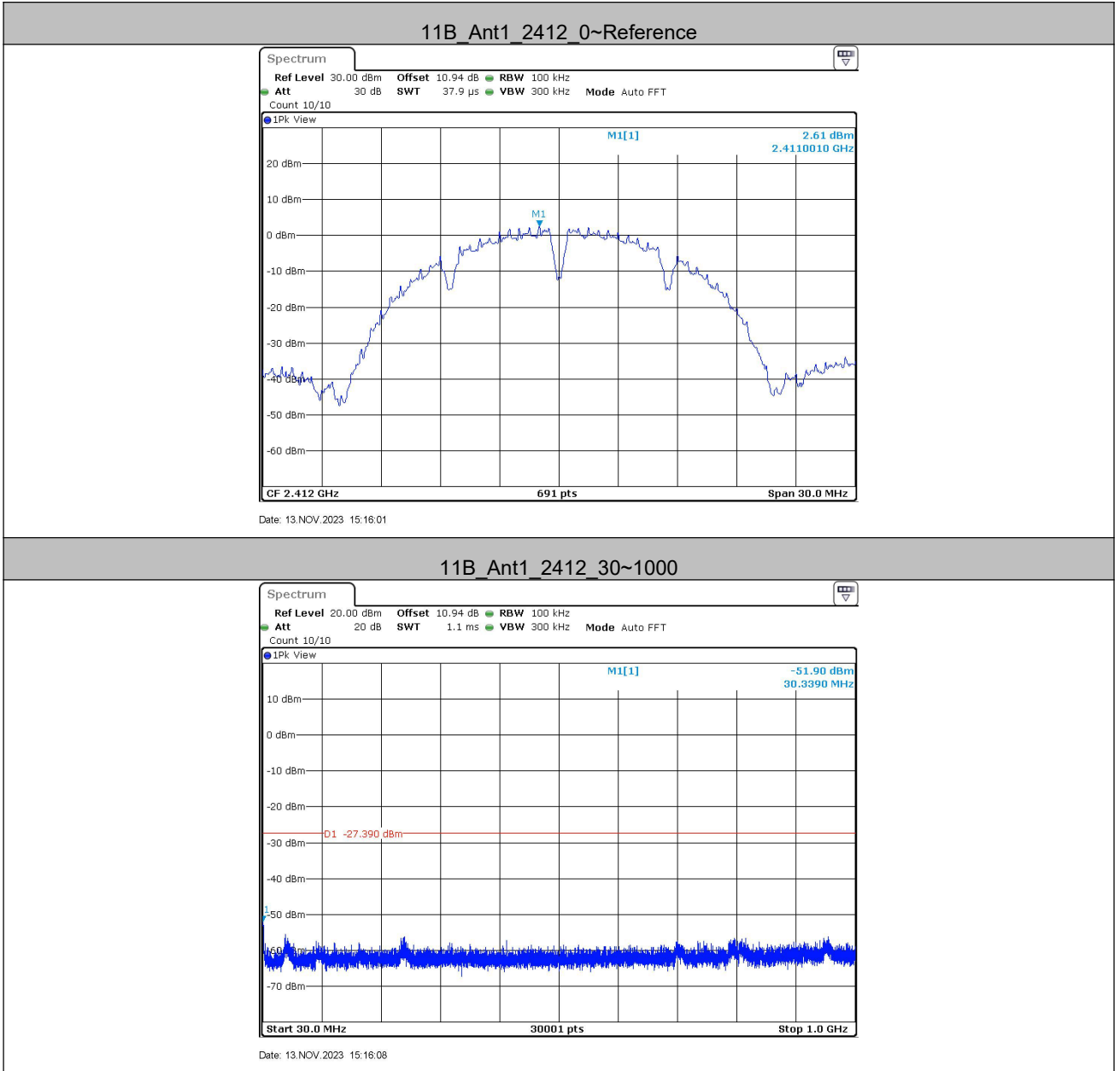
5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>The diagram illustrates the test setup for RF conducted spurious emissions. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p> <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

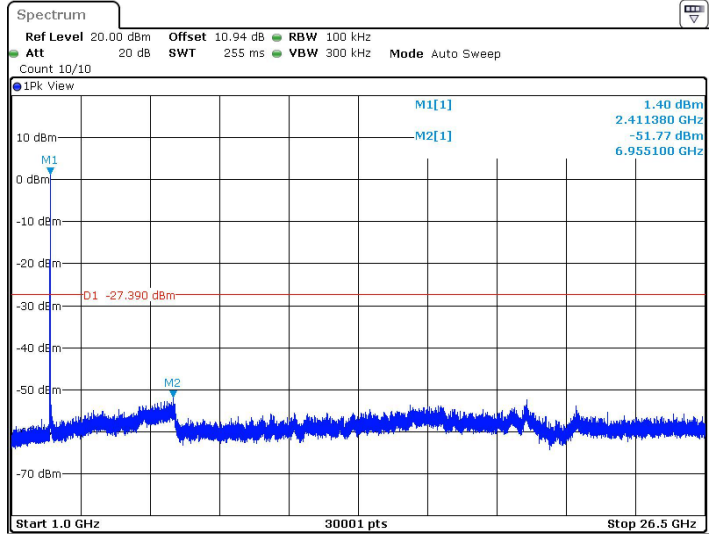
Test Result

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	2.61	2.61	---	PASS
		30~1000	2.61	-51.9	≤-27.39	PASS
		1000~26500	2.61	-51.77	≤-27.39	PASS
	2437	Reference	5.50	5.50	---	PASS
		30~1000	5.50	-50.85	≤-24.5	PASS
		1000~26500	5.50	-40.9	≤-24.5	PASS
	2462	Reference	6.51	6.51	---	PASS
		30~1000	6.51	-50.98	≤-23.49	PASS
		1000~26500	6.51	-38.16	≤-23.49	PASS
11G	2412	Reference	1.06	1.06	---	PASS
		30~1000	1.06	-51.67	≤-28.94	PASS
		1000~26500	1.06	-52.2	≤-28.94	PASS
	2437	Reference	4.42	4.42	---	PASS
		30~1000	4.42	-51.1	≤-25.58	PASS
		1000~26500	4.42	-52.74	≤-25.58	PASS
	2462	Reference	6.36	6.36	---	PASS
		30~1000	6.36	-52.04	≤-23.64	PASS
		1000~26500	6.36	-47.98	≤-23.64	PASS
11N20SISO	2412	Reference	1.33	1.33	---	PASS
		30~1000	1.33	-51.03	≤-28.67	PASS
		1000~26500	1.33	-52.75	≤-28.67	PASS
	2437	Reference	4.16	4.16	---	PASS
		30~1000	4.16	-51.41	≤-25.84	PASS
		1000~26500	4.16	-52.71	≤-25.84	PASS
	2462	Reference	5.34	5.34	---	PASS
		30~1000	5.34	-51.24	≤-24.66	PASS
		1000~26500	5.34	-52.28	≤-24.66	PASS

Test Graphs

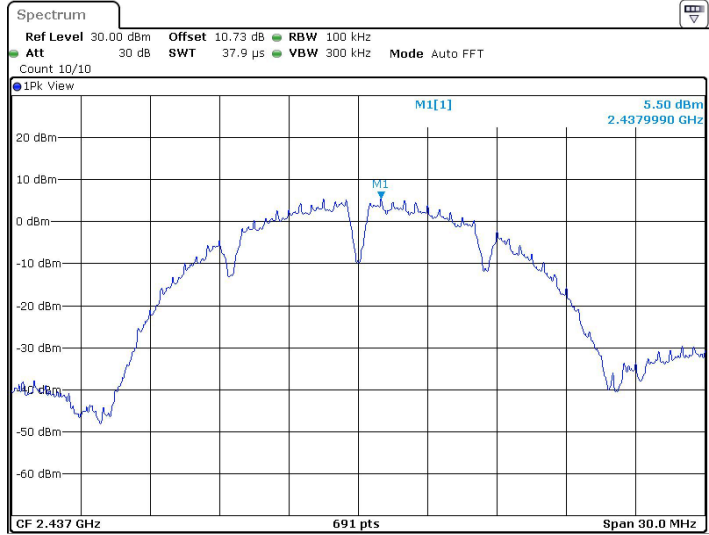


11B_Ant1_2412_1000~26500

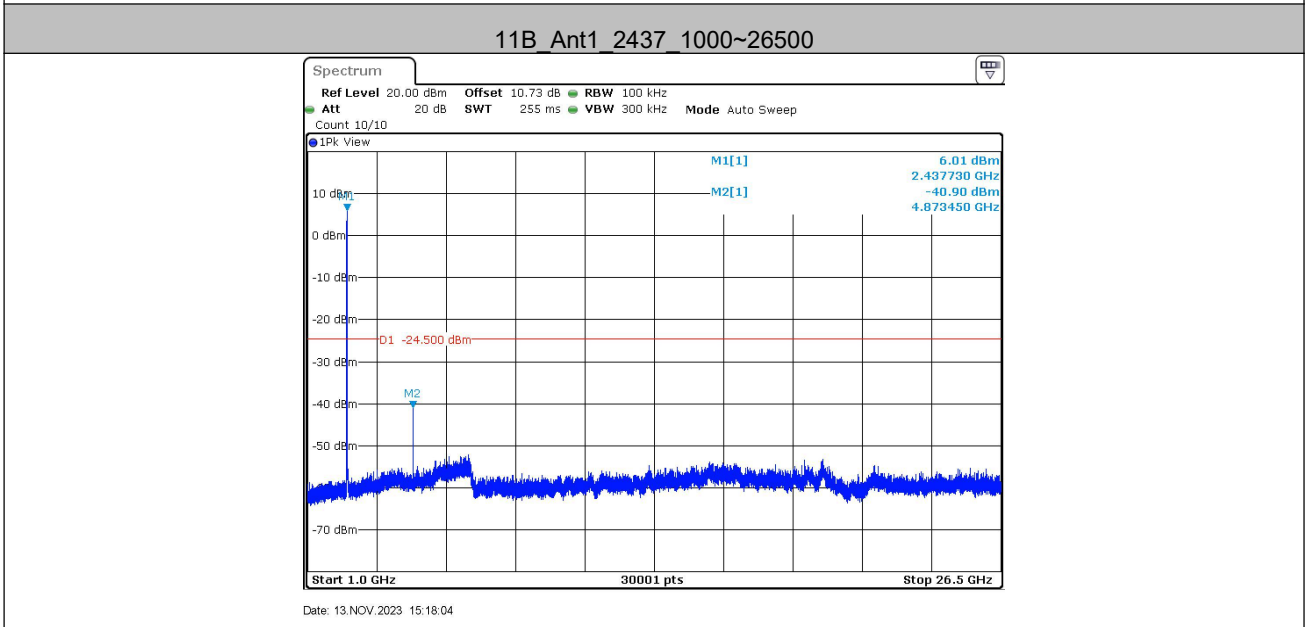
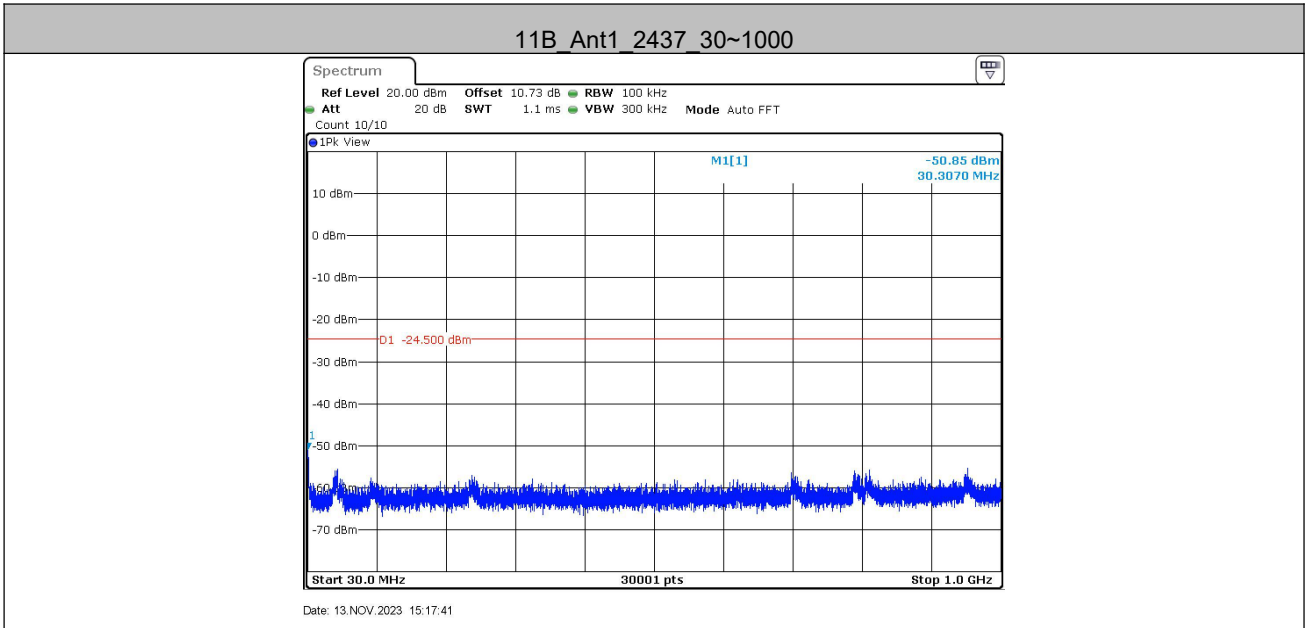


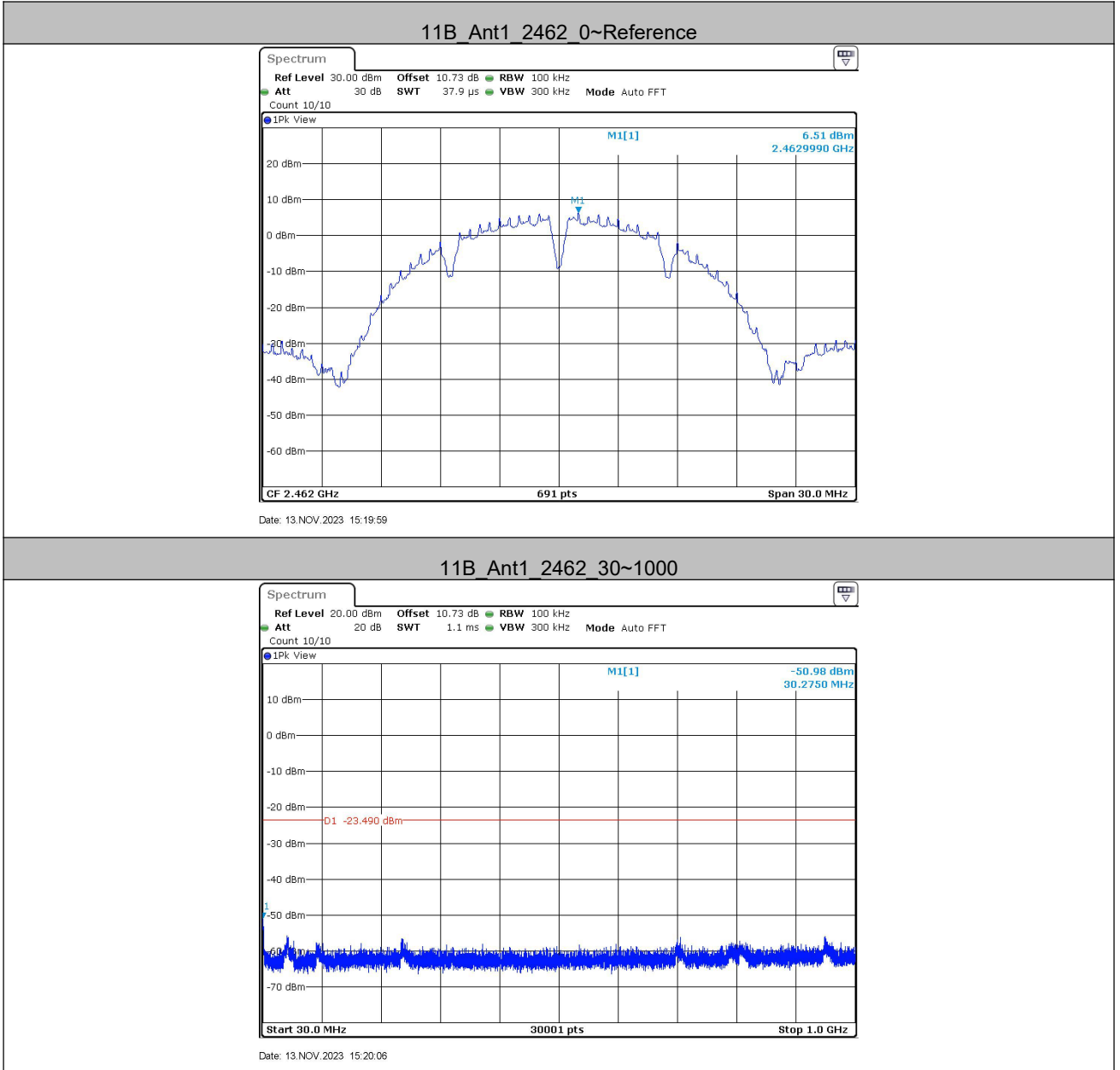
Date: 13.NOV.2023 15:16:30

11B_Ant1_2437_0~Reference

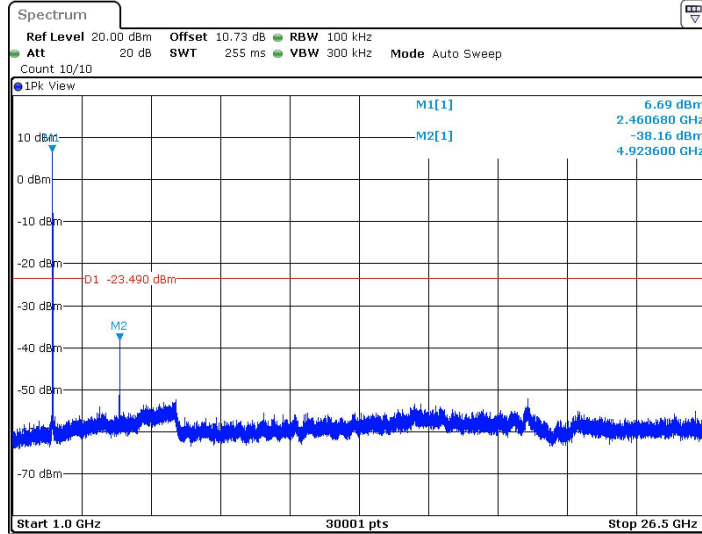


Date: 13.NOV.2023 15:17:35



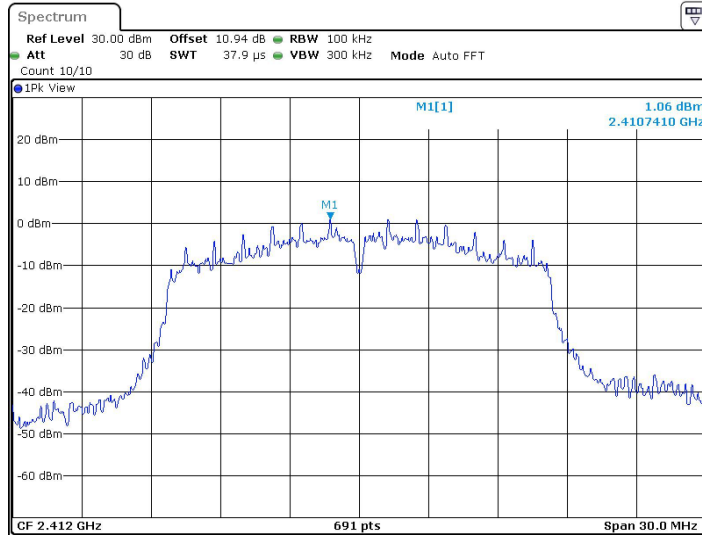


11B_Ant1_2462_1000~26500



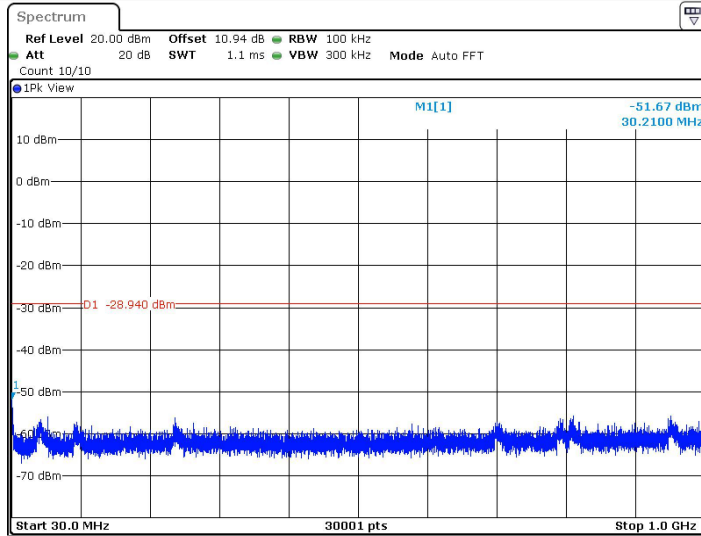
Date: 13.NOV.2023 15:20:28

11G_Ant1_2412_0~Reference



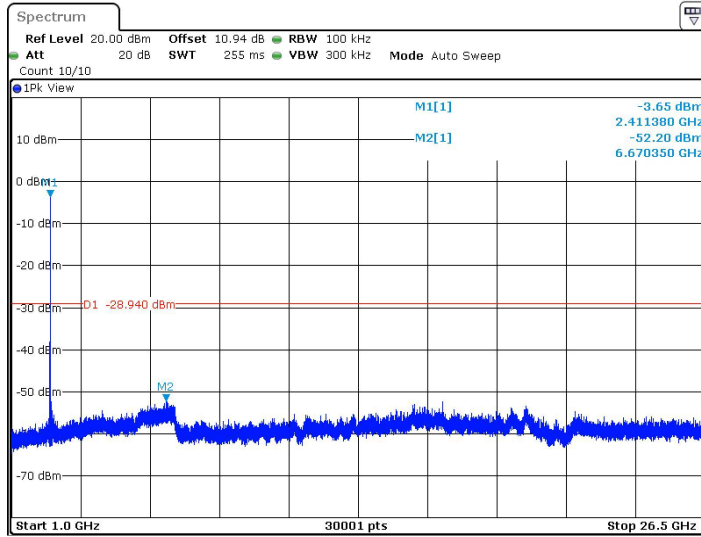
Date: 13.NOV.2023 15:21:46

11G Ant1 2412_30~1000



Date: 13.NOV.2023 15:21:53

11G Ant1 2412_1000~26500



Date: 13.NOV.2023 15:22:15