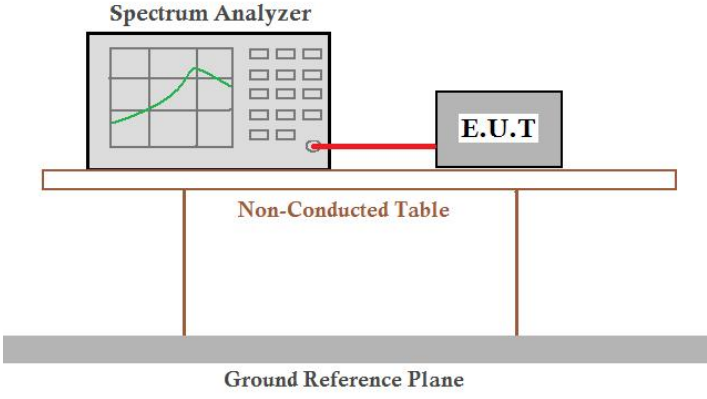


## 5.5 Power Spectral Density

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

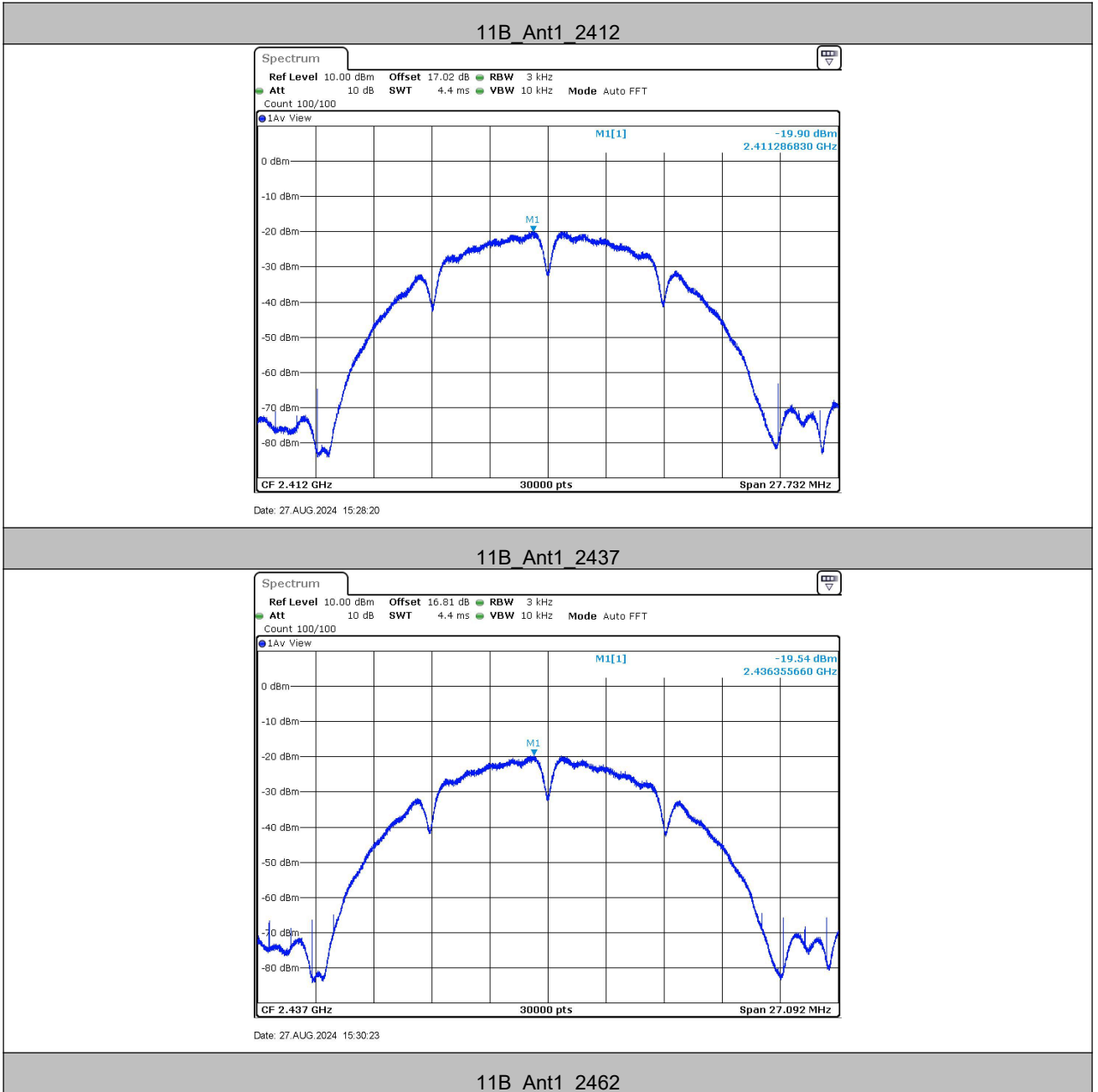
### Test Result

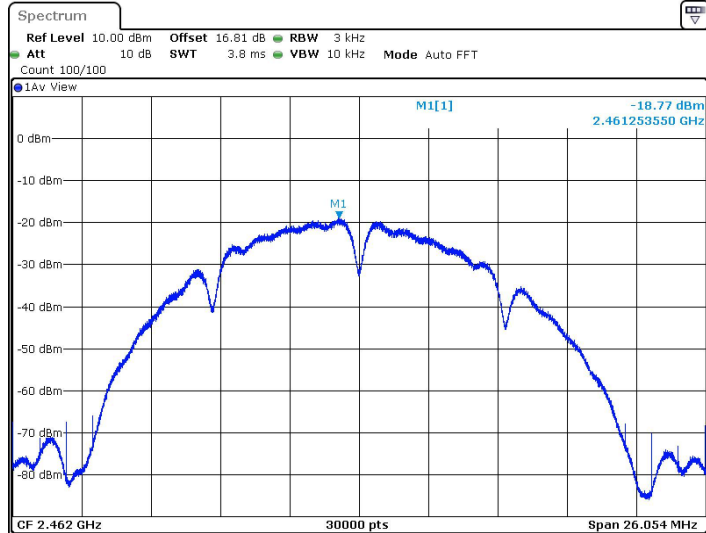
TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-19.9	≤8.00	PASS
	2437	-19.54	≤8.00	PASS
	2462	-18.77	≤8.00	PASS
11G	2412	-22.46	≤8.00	PASS
	2437	-22.11	≤8.00	PASS
	2462	-20.6	≤8.00	PASS
11N20SISO	2412	-18.29	≤8.00	PASS
	2437	-17.89	≤8.00	PASS
	2462	-16.45	≤8.00	PASS
11N40SISO	2422	-17.36	≤8.00	PASS
	2437	-16.76	≤8.00	PASS
	2452	-14.99	≤8.00	PASS

Note:

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

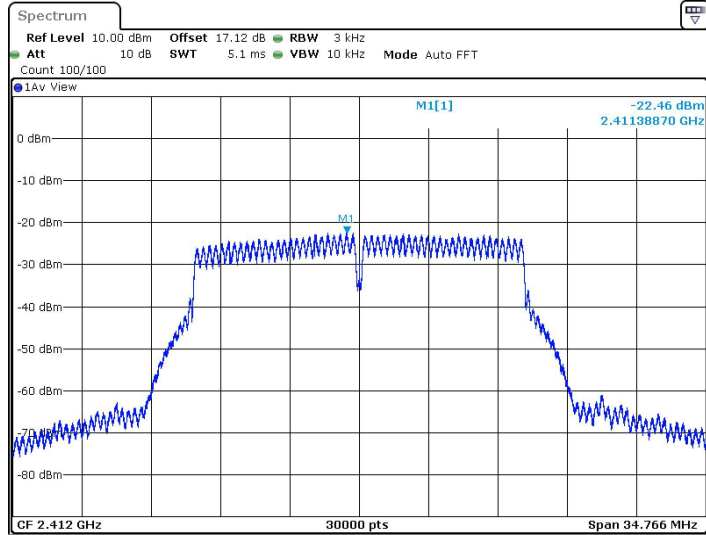
Test Graphs





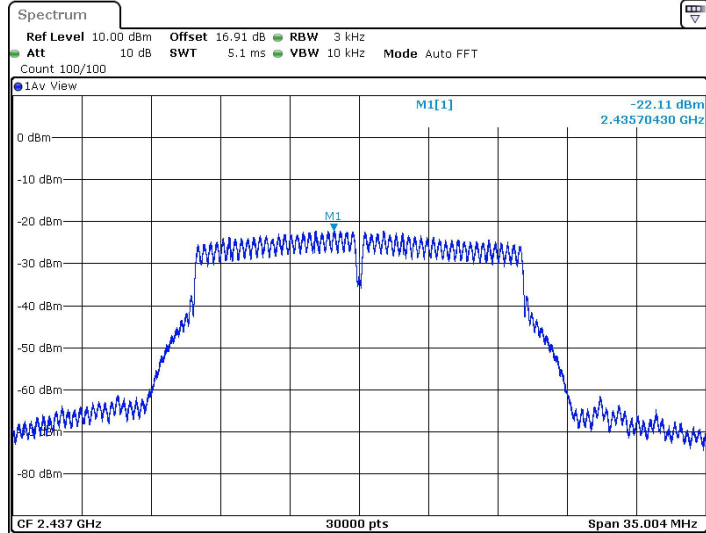
Date: 27.AUG.2024 15:32:08

11G\_Ant1\_2412



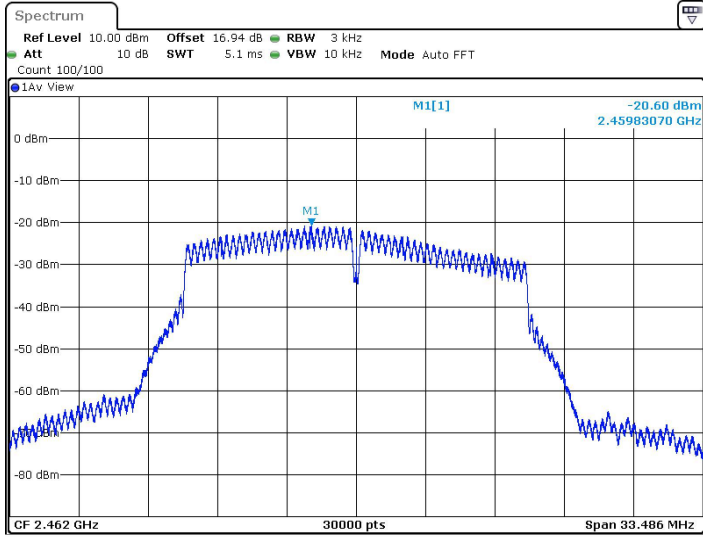
Date: 27.AUG.2024 15:33:53

11G\_Ant1\_2437



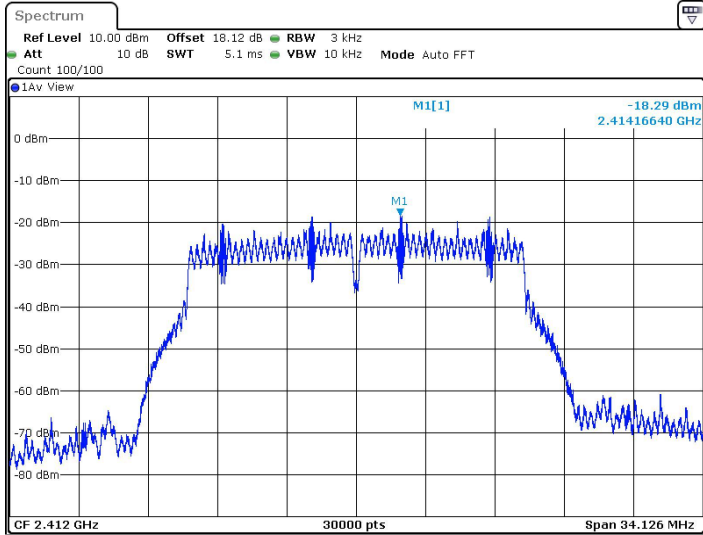
Date: 27.AUG.2024 15:35:51

11G\_Ant1\_2462



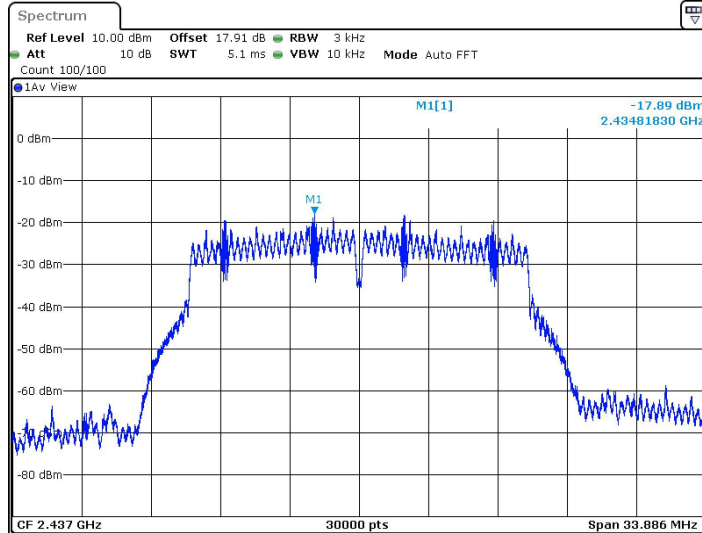
Date: 27.AUG.2024 15:37:33

11N20SISO\_Ant1\_2412



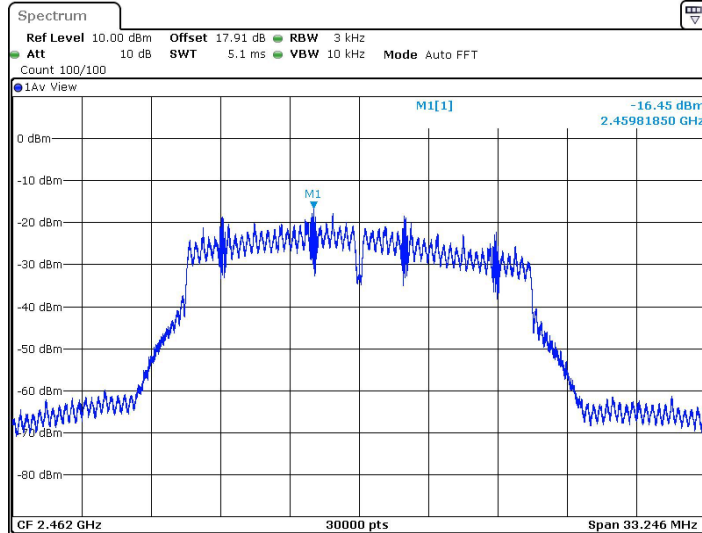
Date: 27.AUG.2024 15:39:47

11N20SISO\_Ant1\_2437



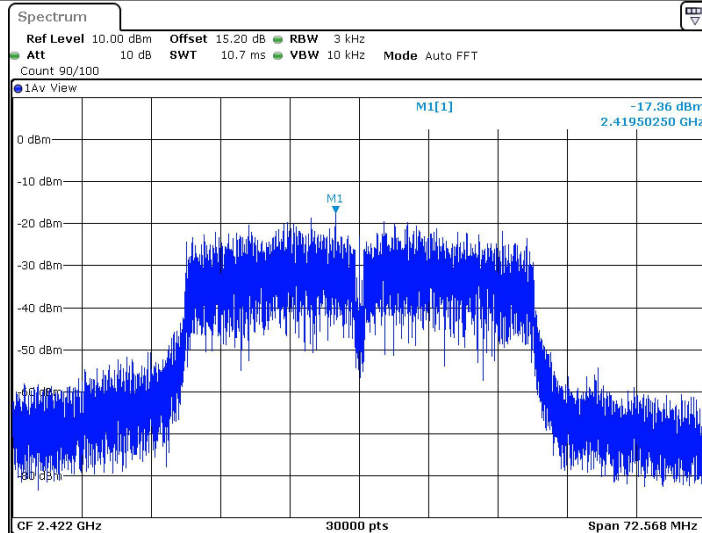
Date: 27.AUG.2024 15:42:28

11N20SISO\_Ant1\_2462



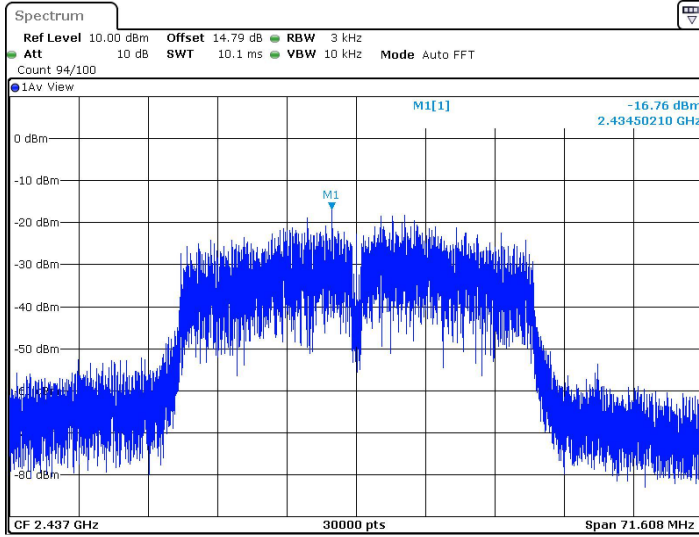
Date: 27.AUG.2024 15:44:48

11N40SISO\_Ant1\_2422



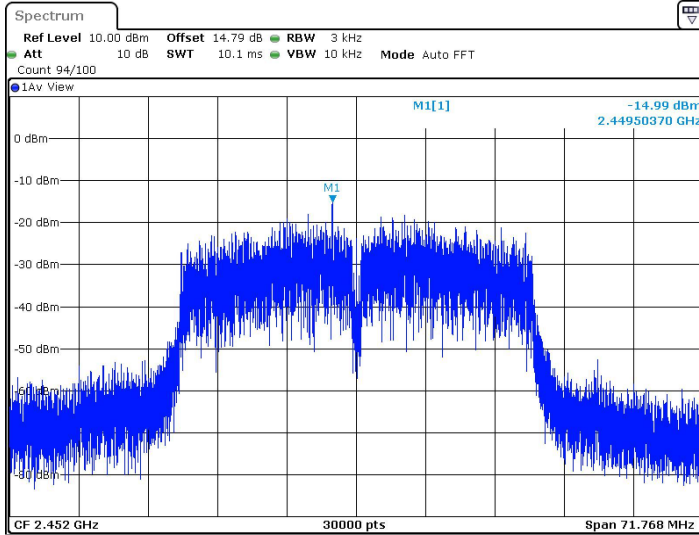
Date: 13.SEP.2024 14:38:52

11N40SISO\_Ant1\_2437



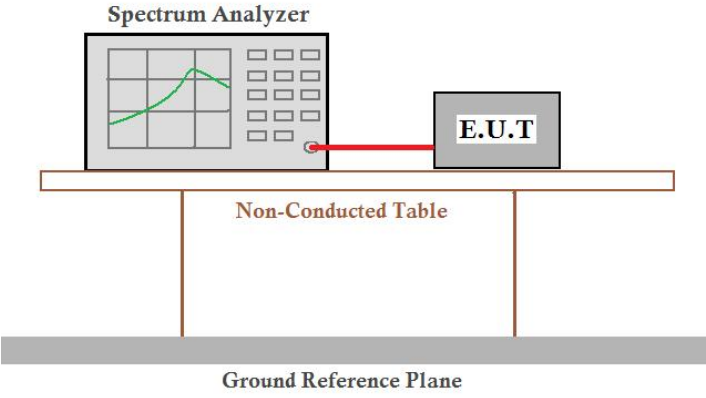
Date: 13.SEP.2024 14:42:10

11N40SISO\_Ant1\_2452



Date: 13.SEP.2024 14:54:01

## 5.6 Band-edge for RF Conducted Emissions

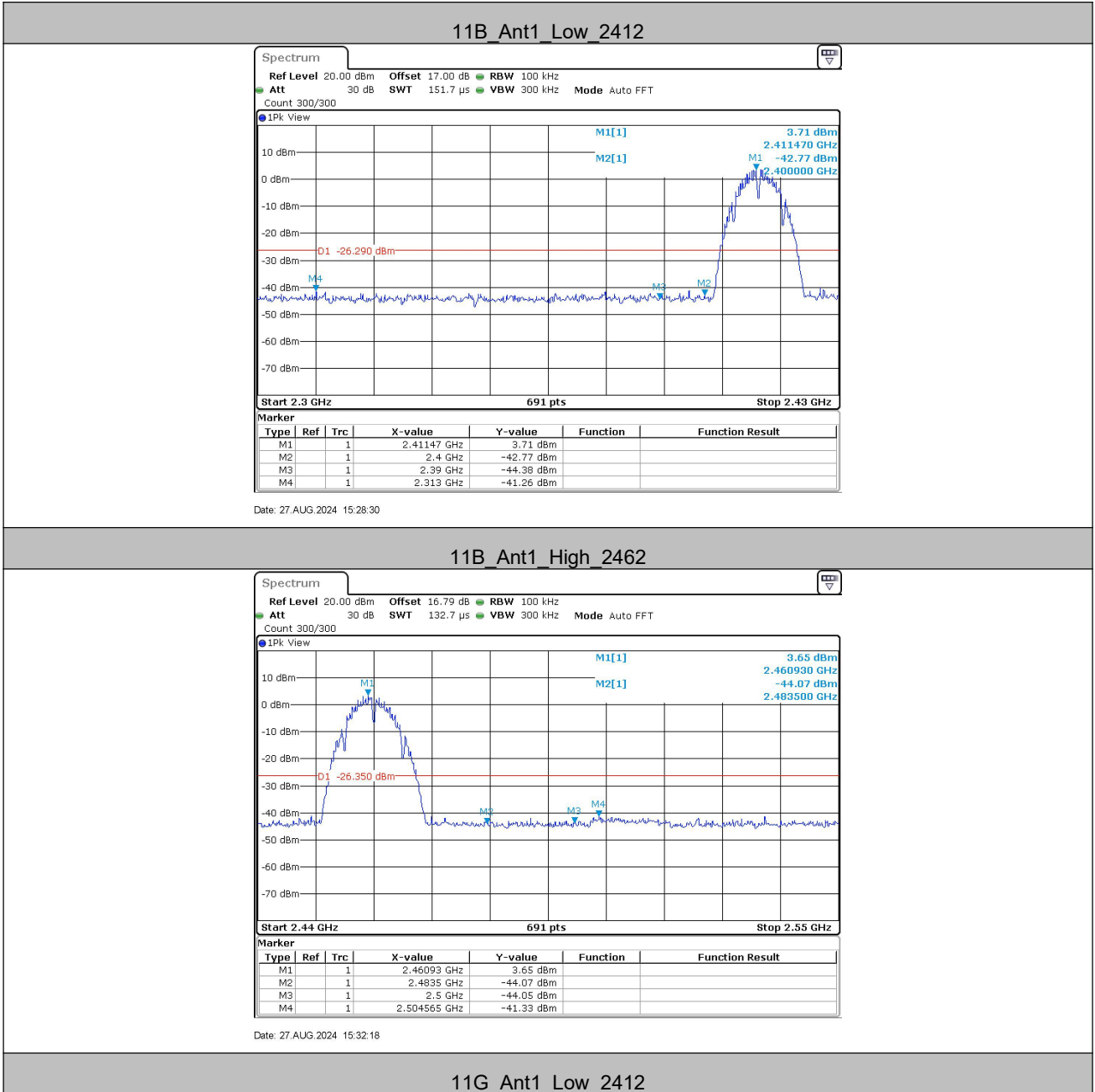
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 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 30 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

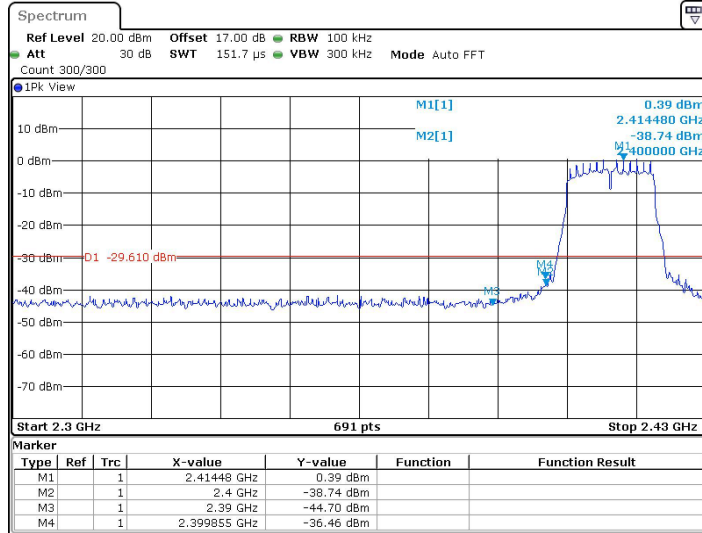


### Test Result

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	3.71	-41.26	≤-26.29	PASS
	High	2462	3.65	-41.33	≤-26.35	PASS
11G	Low	2412	0.39	-36.46	≤-29.61	PASS
	High	2462	2.08	-39.49	≤-27.92	PASS
11N20SISO	Low	2412	0.36	-39.53	≤-29.64	PASS
	High	2462	2.07	-40.67	≤-27.93	PASS
11N40SISO	Low	2422	-2.80	-34.26	≤-32.8	PASS
	High	2452	-1.83	-40.06	≤-31.83	PASS

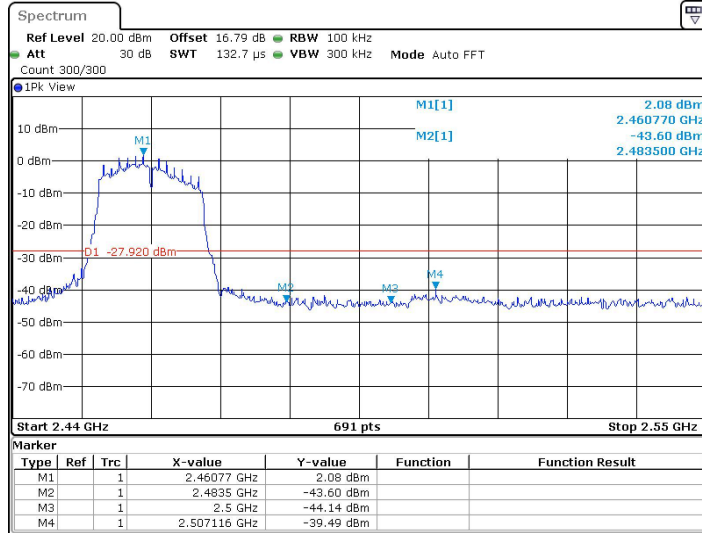
5.6.1 Test Graphs





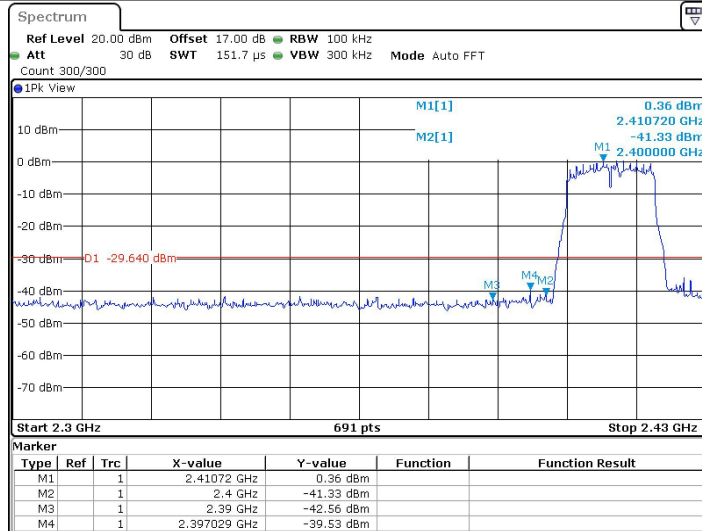
Date: 27.AUG.2024 15:34:03

11G\_Ant1\_High\_2462



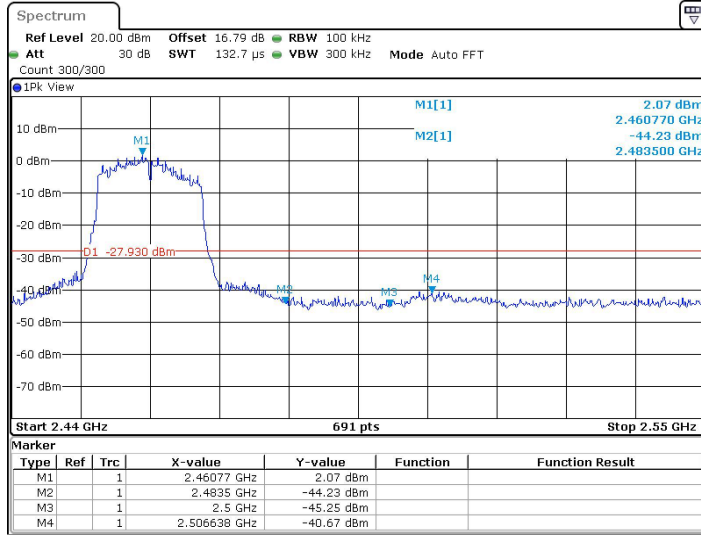
Date: 27.AUG.2024 15:37:43

11N20SISO\_Ant1\_Low\_2412



Date: 27.AUG.2024 15:39:58

11N20SISO\_Ant1\_High\_2462



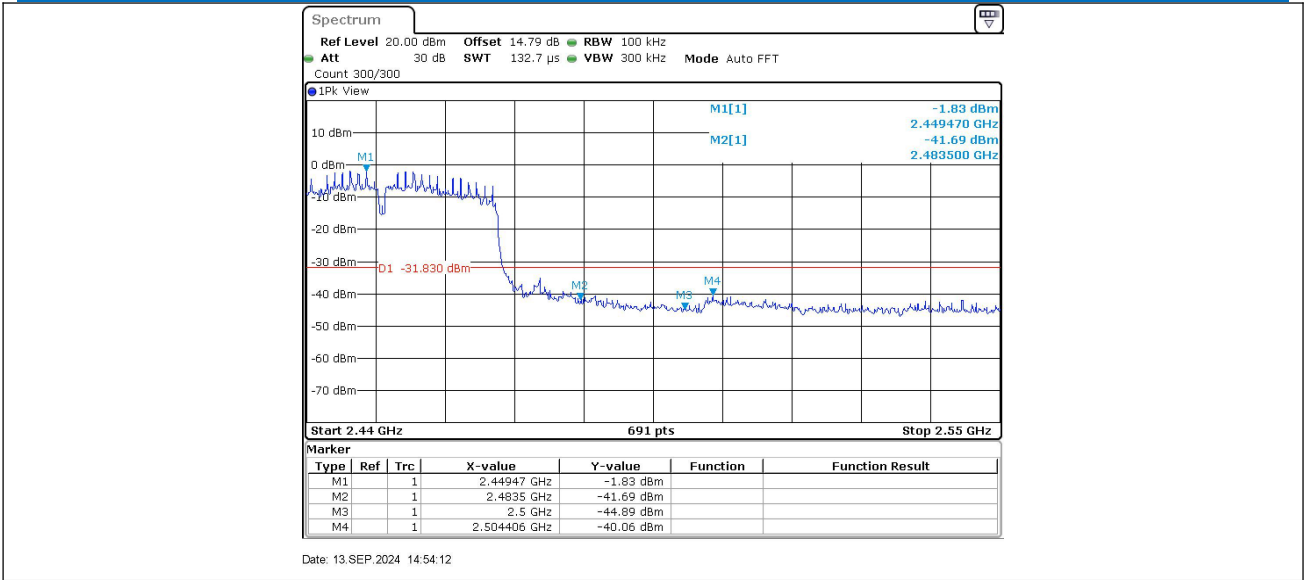
Date: 27.AUG.2024 15:44:58

11N40SISO\_Ant1\_Low\_2422

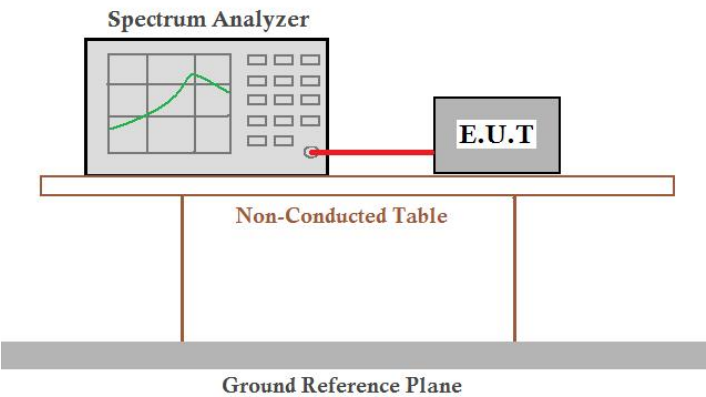


Date: 13.SEP.2024 14:39:02

11N40SISO\_Ant1\_High\_2452



## 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 to an E.U.T. (Equipment Under Test) via a red cable. 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 30 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

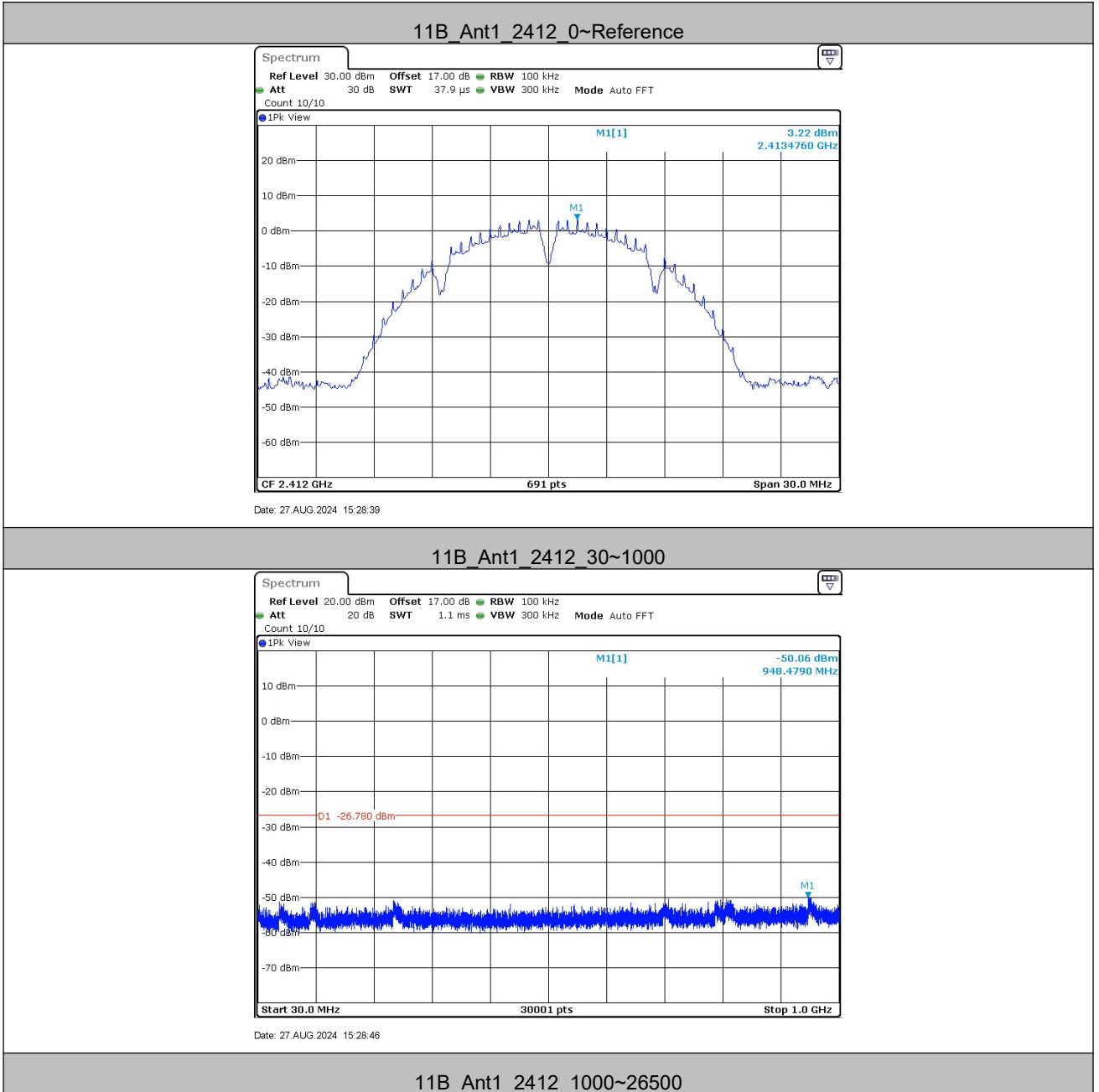
TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	3.22	3.22	---	PASS
		30~1000	3.22	-50.06	≤-26.78	PASS
		1000~26500	3.22	-45.35	≤-26.78	PASS
	2437	Reference	3.72	3.72	---	PASS
		30~1000	3.72	-50.32	≤-26.28	PASS
		1000~26500	3.72	-45.7	≤-26.28	PASS
	2462	Reference	4.00	4.00	---	PASS
		30~1000	4.00	-49.9	≤-26	PASS
		1000~26500	4.00	-46.92	≤-26	PASS
11G	2412	Reference	0.62	0.62	---	PASS
		30~1000	0.62	-49.12	≤-29.38	PASS
		1000~26500	0.62	-46.22	≤-29.38	PASS
	2437	Reference	0.89	0.89	---	PASS
		30~1000	0.89	-50.04	≤-29.11	PASS
		1000~26500	0.89	-47.04	≤-29.11	PASS
	2462	Reference	1.89	1.89	---	PASS
		30~1000	1.89	-50.09	≤-28.11	PASS
		1000~26500	1.89	-46.49	≤-28.11	PASS
11N20SISO	2412	Reference	0.44	0.44	---	PASS
		30~1000	0.44	-49.32	≤-29.56	PASS
		1000~26500	0.44	-46.78	≤-29.56	PASS
	2437	Reference	1.05	1.05	---	PASS
		30~1000	1.05	-49.32	≤-28.95	PASS
		1000~26500	1.05	-46.46	≤-28.95	PASS
	2462	Reference	1.89	1.89	---	PASS
		30~1000	1.89	-48.06	≤-28.11	PASS
		1000~26500	1.89	-46.49	≤-28.11	PASS
11N40SISO	2422	Reference	-2.77	-2.77	---	PASS
		30~1000	-2.77	-49.36	≤-32.77	PASS
		1000~26500	-2.77	-47.51	≤-32.77	PASS
	2437	Reference	-1.65	-1.65	---	PASS
		30~1000	-1.65	-48.95	≤-31.65	PASS
		1000~26500	-1.65	-46.91	≤-31.65	PASS
	2452	Reference	-1.77	-1.77	---	PASS

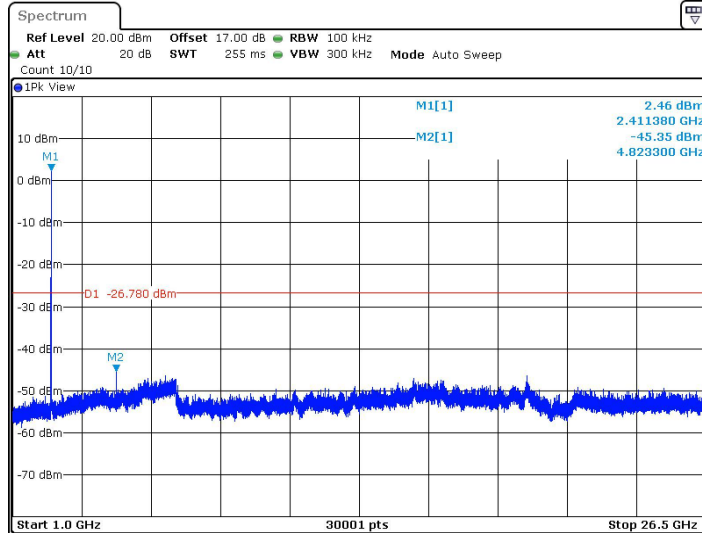
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		30~1000	-1.77	-50.51	$\leq 31.77$	PASS
		1000~26500	-1.77	-47.57	$\leq 31.77$	PASS



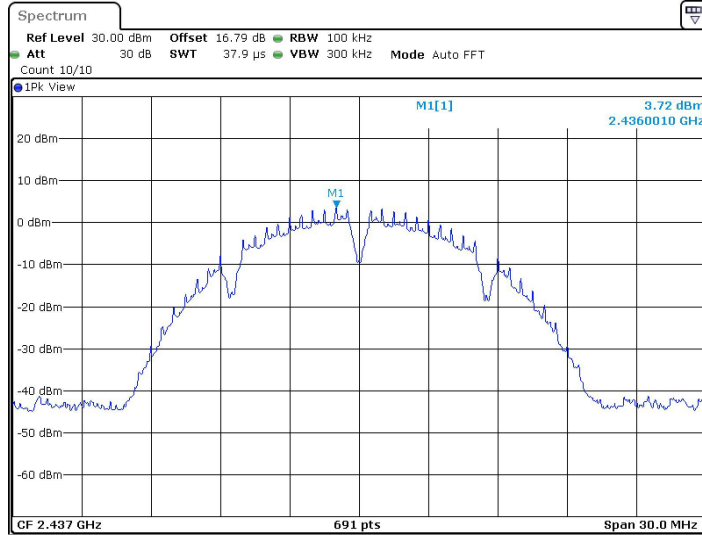
Test Graphs





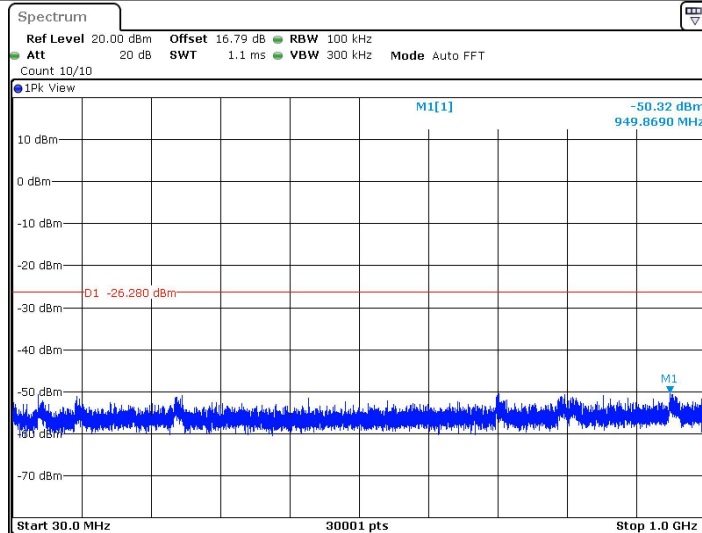
Date: 27.AUG.2024 15:29:08

11B\_Ant1\_2437\_0~Reference



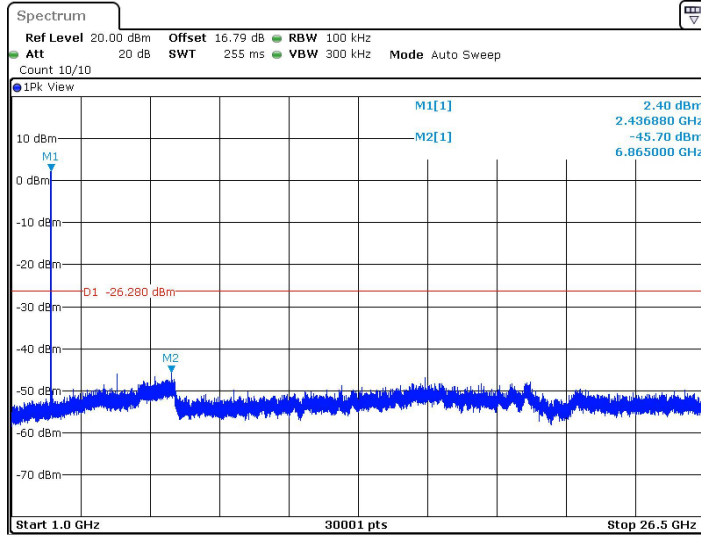
Date: 27.AUG.2024 15:30:32

11B\_Ant1\_2437\_30~1000



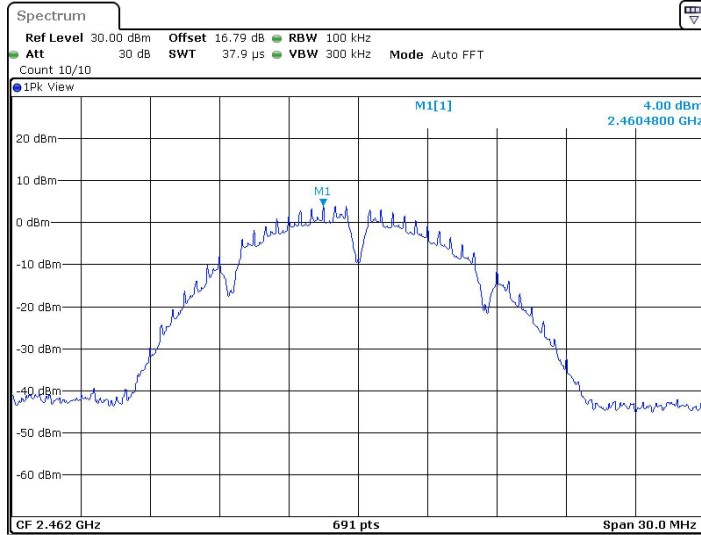
Date: 27.AUG.2024 15:30:38

11B\_Ant1\_2437\_1000~26500



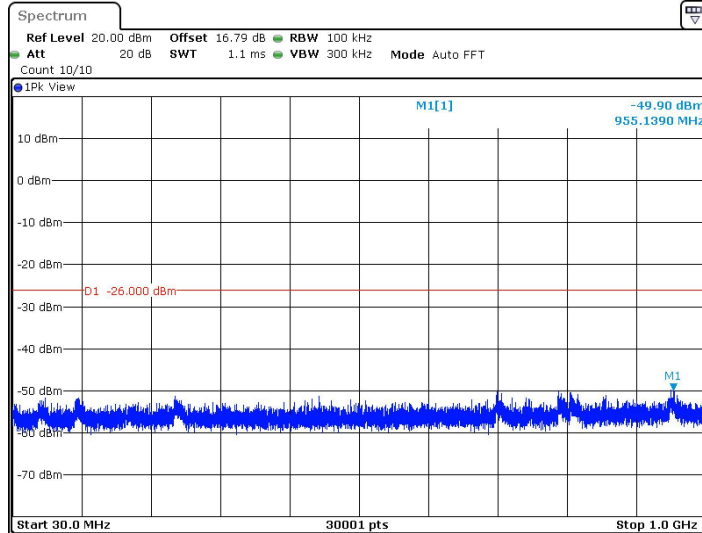
Date: 27.AUG.2024 15:31:00

11B\_Ant1\_2462\_0~Reference



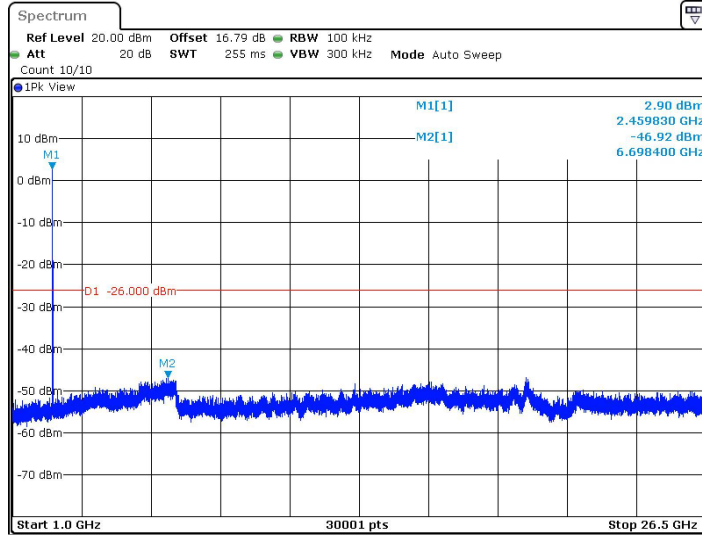
Date: 27.AUG.2024 15:32:27

11B\_Ant1\_2462\_30~1000



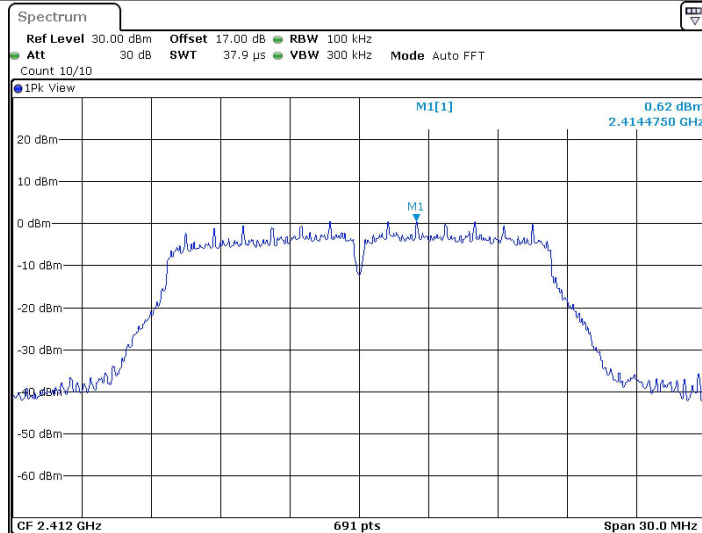
Date: 27.AUG.2024 15:32:33

11B\_Ant1\_2462\_1000~26500



Date: 27.AUG.2024 15:32:55

11G\_Ant1\_2412\_0~Reference



Date: 27.AUG.2024 15:34:12