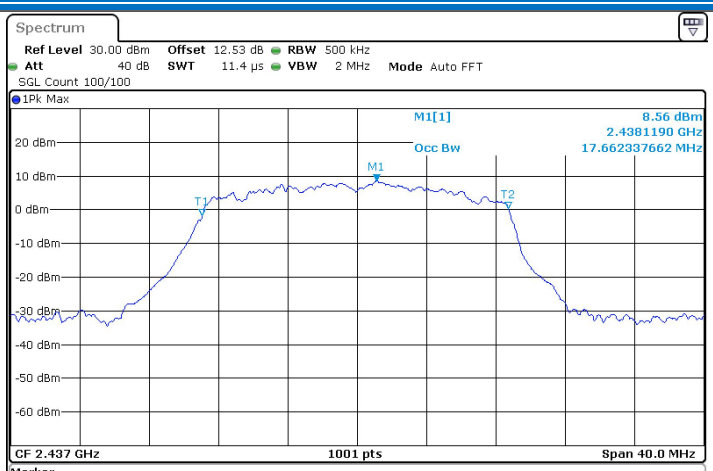
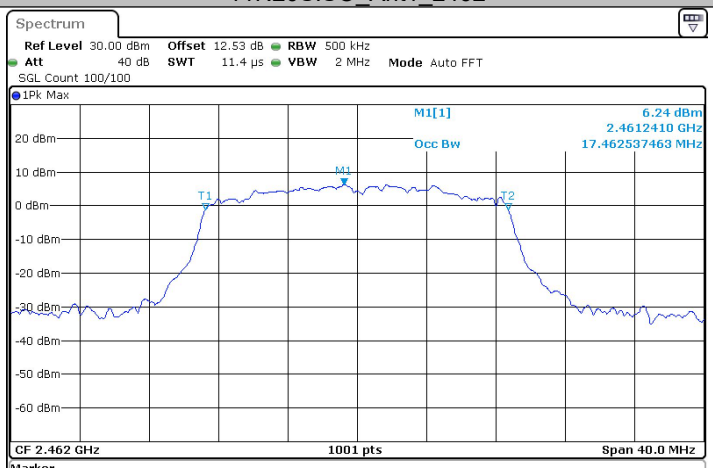


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.438119 GHz	8.56 dBm		
T1		1	2.428049 GHz	-1.77 dBm	Occ Bw	17.662337662 MHz
T2		1	2.4457113 GHz	0.39 dBm		

Date: 6.MAR.2025 10:23:39

11N20SISO_Ant1_2462

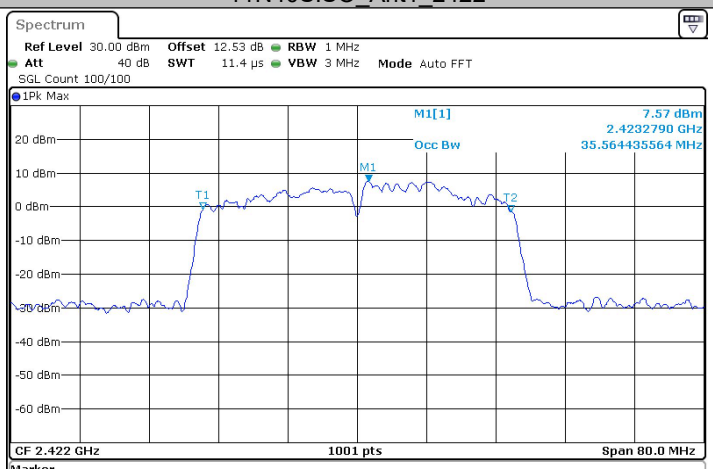


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.461241 GHz	6.24 dBm		
T1		1	2.4532488 GHz	-1.13 dBm	Occ Bw	17.462537463 MHz
T2		1	2.4707113 GHz	-1.29 dBm		

Date: 6.MAR.2025 10:26:36

11N40SISO_Ant1_2422

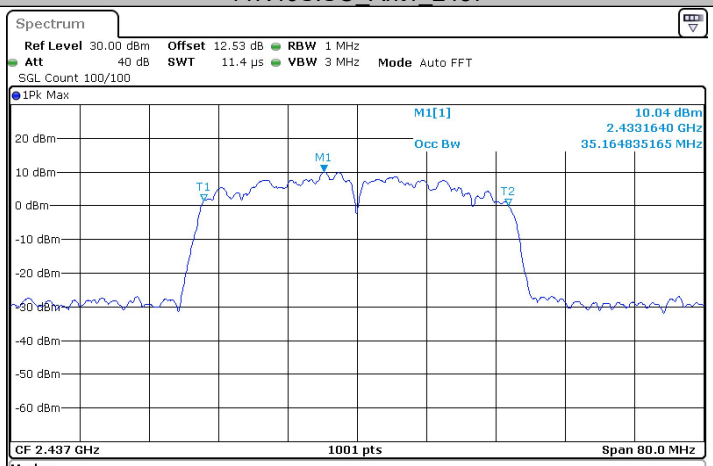


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423279 GHz	7.57 dBm		
T1		1	2.4041778 GHz	-0.76 dBm	Occ Bw	35.564435564 MHz
T2		1	2.4397423 GHz	-1.61 dBm		

Date: 6.MAR.2025 10:27:54

11N40SISO_Ant1_2437

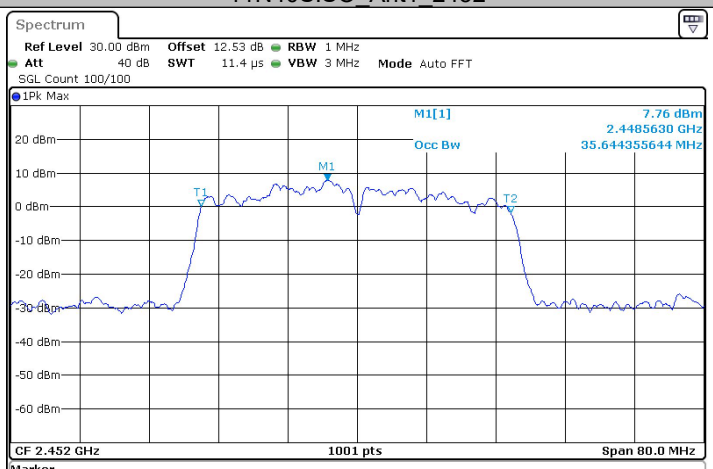


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.433164 GHz	10.04 dBm		
T1		1	2.4192577 GHz	1.34 dBm	Occ Bw	35.164835165 MHz
T2		1	2.4544226 GHz	-0.02 dBm		

Date: 6.MAR.2025 10:29:33

11N40SISO_Ant1_2452

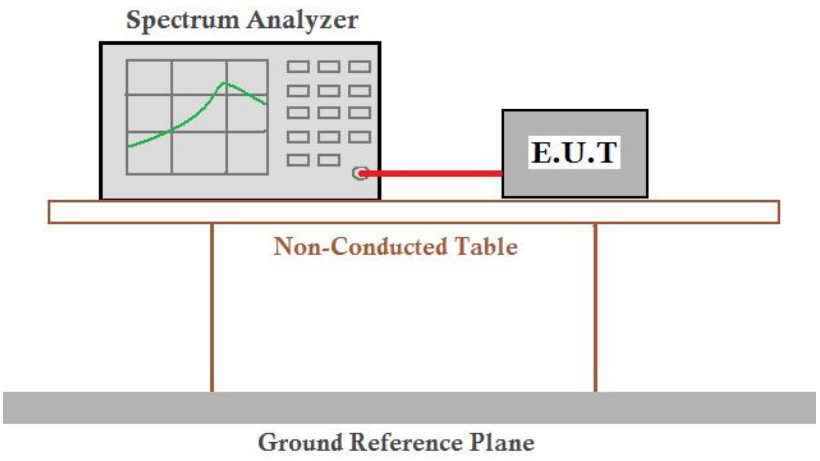


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.448563 GHz	7.76 dBm		
T1		1	2.434018 GHz	0.22 dBm	Occ Bw	35.644355644 MHz
T2		1	2.4696623 GHz	-1.71 dBm		

Date: 6.MAR.2025 10:30:58

5.5 6dB Occupied Bandwidth

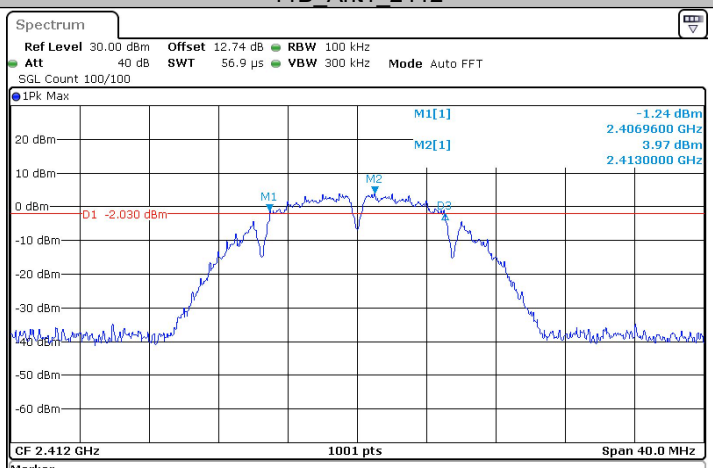
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	0.5	PASS
		2437	9.56	0.5	PASS
		2462	9.08	0.5	PASS
11G	Ant1	2412	13.88	0.5	PASS
		2437	15.68	0.5	PASS
		2462	16.32	0.5	PASS
11N20SISO	Ant1	2412	17.56	0.5	PASS
		2437	16.44	0.5	PASS
		2462	16.92	0.5	PASS
11N40SISO	Ant1	2422	27.60	0.5	PASS
		2437	17.92	0.5	PASS
		2452	24.16	0.5	PASS

Test Graphs

11B_Ant1_2412

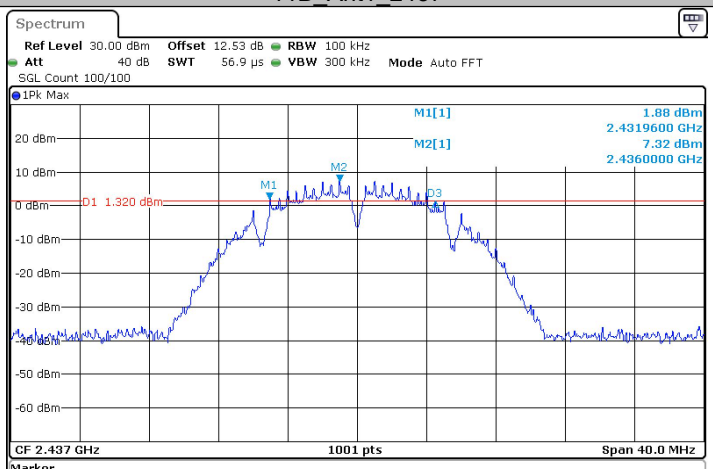


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40696 GHz	-1.24 dBm		
M2		1	2.413 GHz	3.97 dBm		
D3	M1	1	10.08 MHz	-0.64 dB		

Date: 6.MAR.2025 10:04:46

11B_Ant1_2437

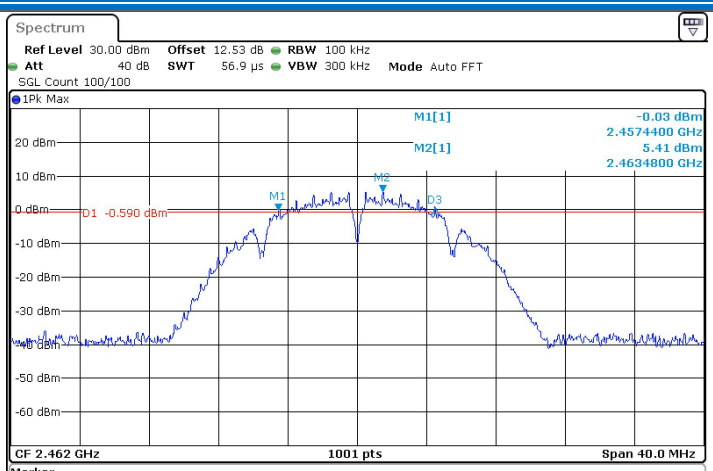


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43196 GHz	1.88 dBm		
M2		1	2.436 GHz	7.32 dBm		
D3	M1	1	9.56 MHz	-0.47 dB		

Date: 6.MAR.2025 10:06:10

11B_Ant1_2462

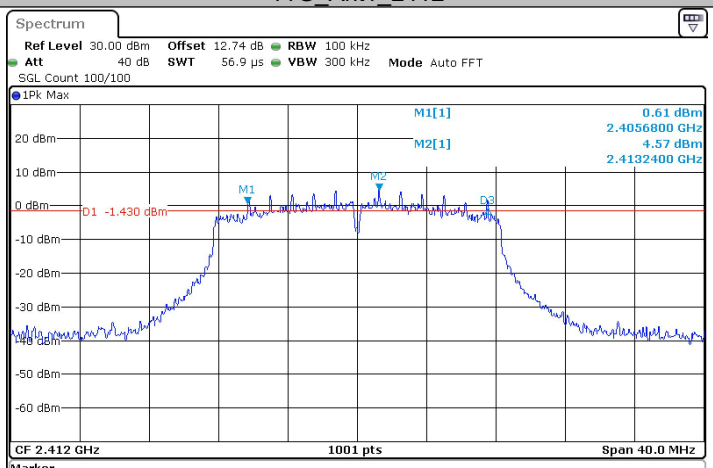


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45744 GHz	-0.03 dBm		
M2		1	2.46348 GHz	5.41 dBm		
D3	M1	1	9.08 MHz	0.78 dB		

Date: 6.MAR.2025 10:07:20

11G_Ant1_2412

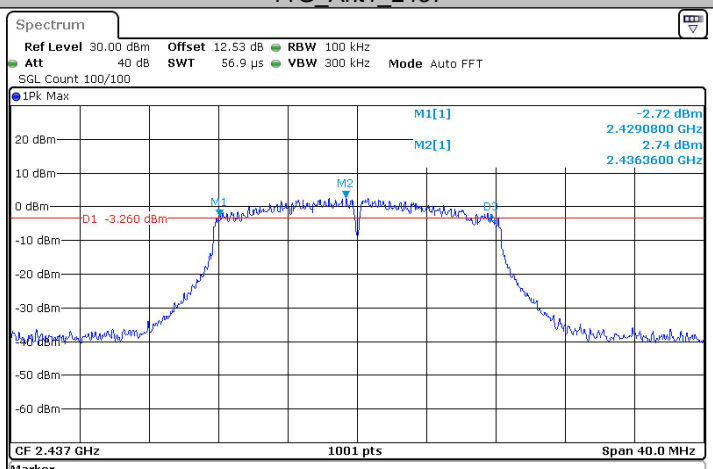


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40568 GHz	0.61 dBm		
M2		1	2.41324 GHz	4.57 dBm		
D3	M1	1	13.88 MHz	-1.18 dB		

Date: 6.MAR.2025 10:12:06

11G_Ant1_2437

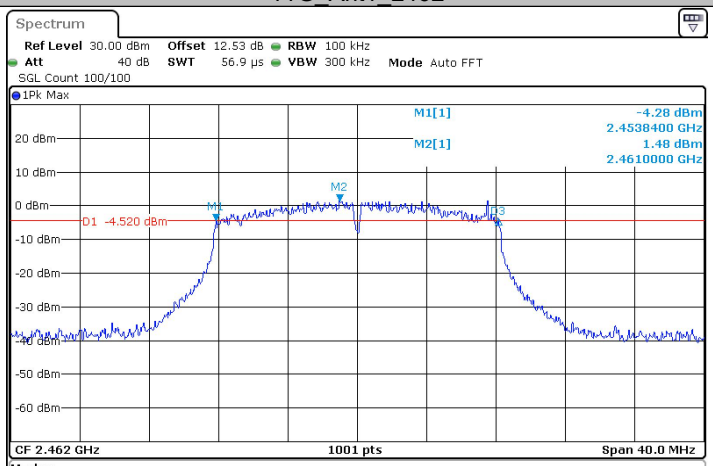


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42908 GHz	-2.72 dBm		
M2		1	2.43636 GHz	2.74 dBm		
D3	M1	1	15.68 MHz	0.36 dB		

Date: 6.MAR.2025 10:13:30

11G_Ant1_2462

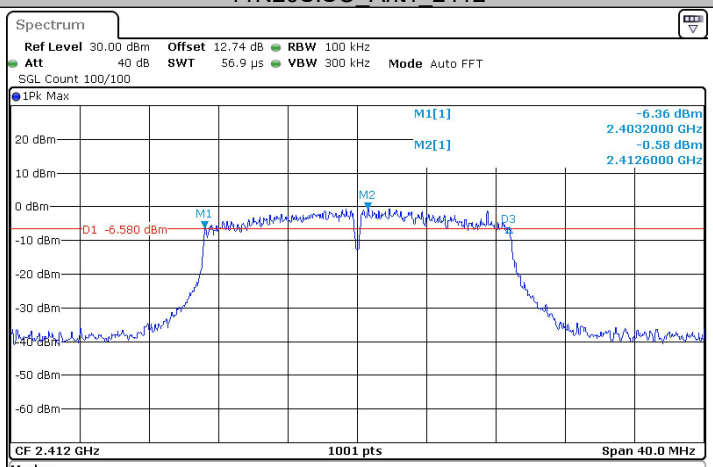


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45384 GHz	-4.28 dBm		
M2		1	2.461 GHz	1.48 dBm		
D3	M1	1	16.32 MHz	0.45 dB		

Date: 6.MAR.2025 10:16:39

11N20SISO_Ant1_2412

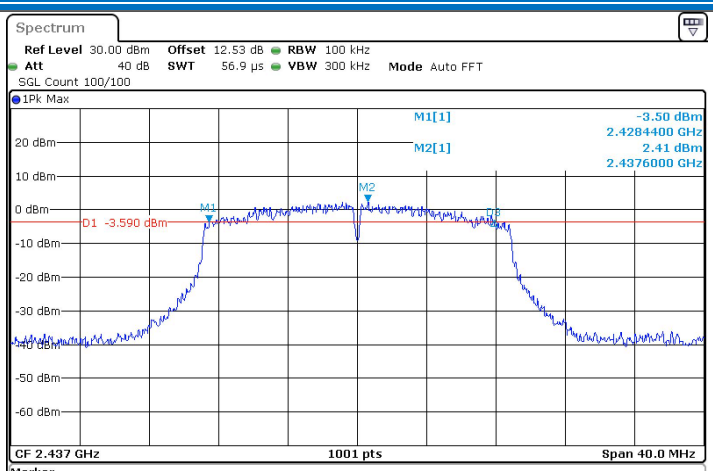


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4032 GHz	-6.36 dBm		
M2		1	2.4126 GHz	-0.58 dBm		
D3	M1	1	17.56 MHz	0.30 dB		

Date: 6.MAR.2025 10:22:13

11N20SISO_Ant1_2437

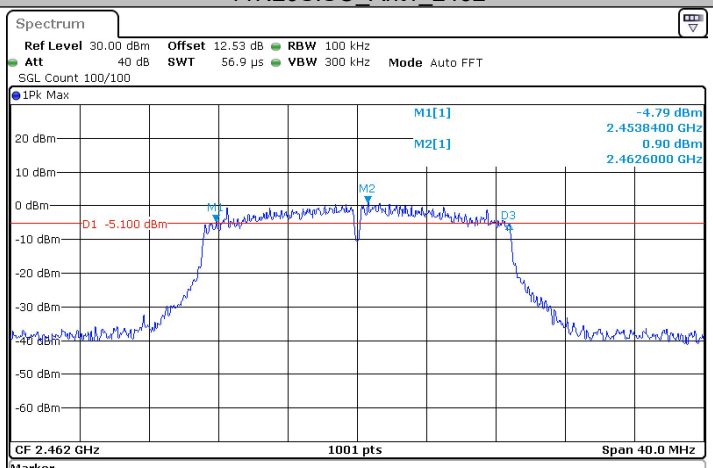


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42844 GHz	-3.50 dBm		
M2		1	2.4376 GHz	2.41 dBm		
D3	M1	1	16.44 MHz	0.36 dB		

Date: 6.MAR.2025 10:23:35

11N20SISO_Ant1_2462

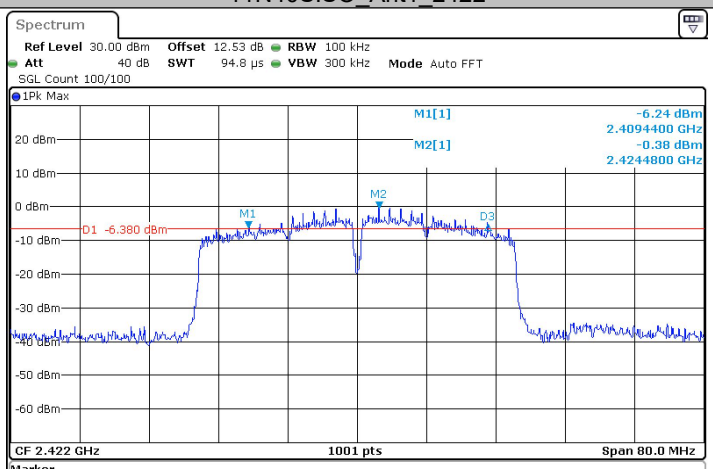


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45384 GHz	-4.79 dBm		
M2		1	2.4626 GHz	0.90 dBm		
D3	M1	1	16.92 MHz	-0.29 dB		

Date: 6.MAR.2025 10:26:32

11N40SISO_Ant1_2422

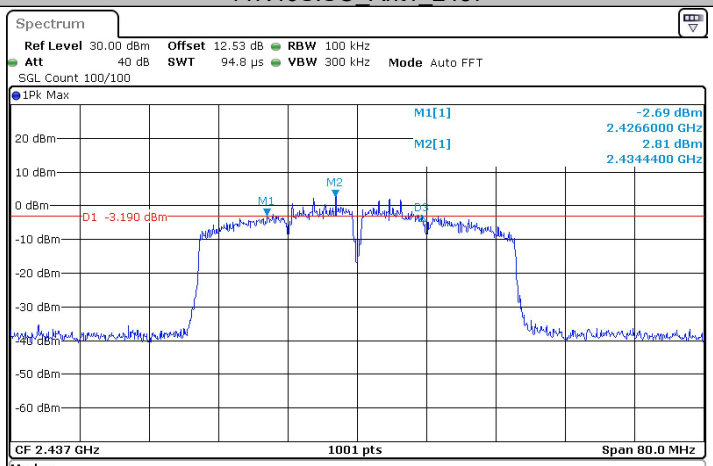


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40944 GHz	-6.24 dBm		
M2		1	2.42448 GHz	-0.38 dBm		
D3	M1	1	27.6 MHz	1.18 dB		

Date: 6.MAR.2025 10:27:49

11N40SISO_Ant1_2437

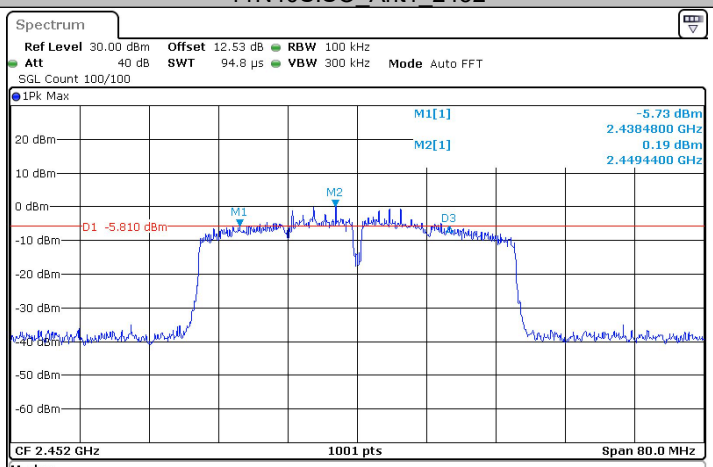


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4266 GHz	-2.69 dBm		
M2		1	2.43444 GHz	2.81 dBm		
D3	M1	1	17.92 MHz	-0.04 dB		

Date: 6.MAR.2025 10:29:29

11N40SISO_Ant1_2452

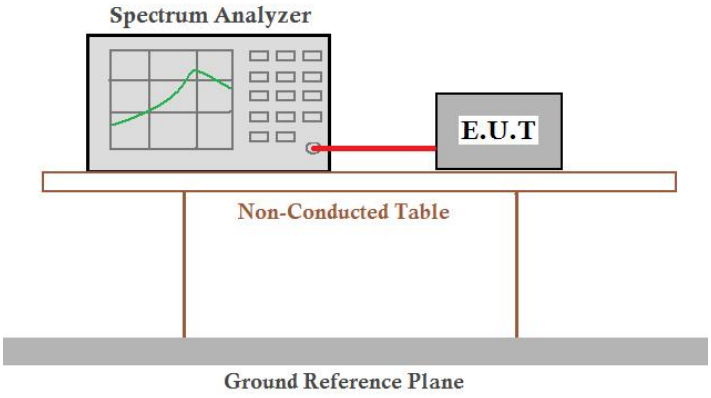


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43848 GHz	-5.73 dBm		
M2		1	2.44944 GHz	0.19 dBm		
D3	M1	1	24.16 MHz	-0.00 dB		

Date: 6.MAR.2025 10:30:53

5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
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

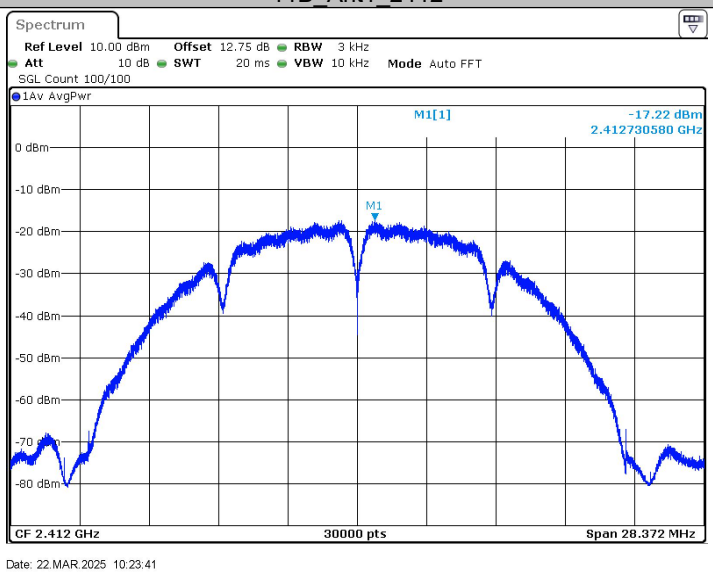
Test Result

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-17.22	≤8.00	PASS
	2437	-17.56	≤8.00	PASS
	2462	-16.80	≤8.00	PASS
11G	2412	-16.91	≤8.00	PASS
	2437	-17.45	≤8.00	PASS
	2462	-16.80	≤8.00	PASS
11N20SISO	2412	-16.39	≤8.00	PASS
	2437	-16.69	≤8.00	PASS
	2462	-16.85	≤8.00	PASS
11N40SISO	2422	-18.24	≤8.00	PASS
	2437	-18.58	≤8.00	PASS
	2452	-18.21	≤8.00	PASS

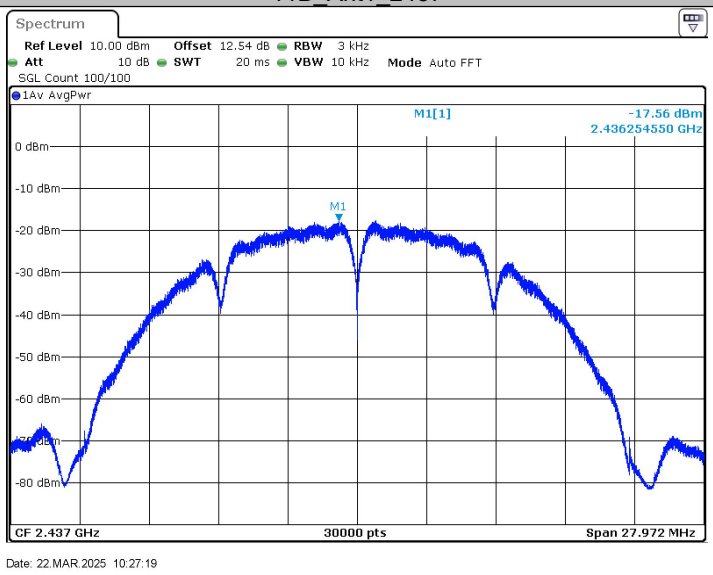
Note: Duty cycle correction factor details please see section 4.4.
When Duty cycle >98%, D.C.F is not required.

Test Graphs

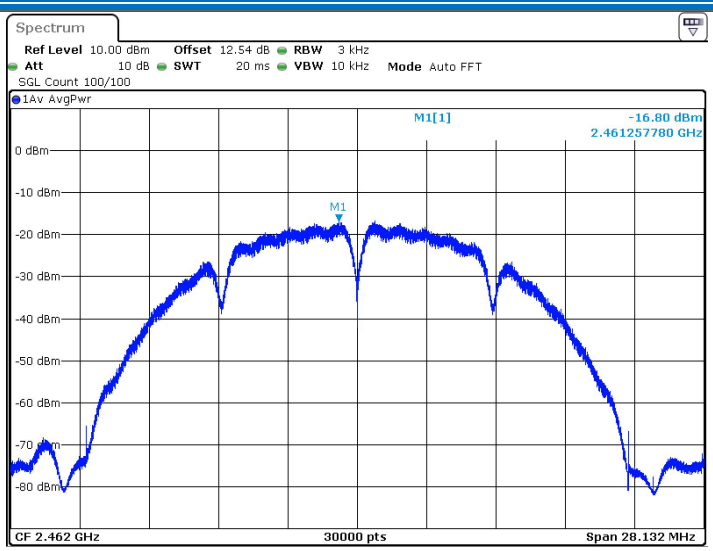
11B_Ant1_2412



11B_Ant1_2437

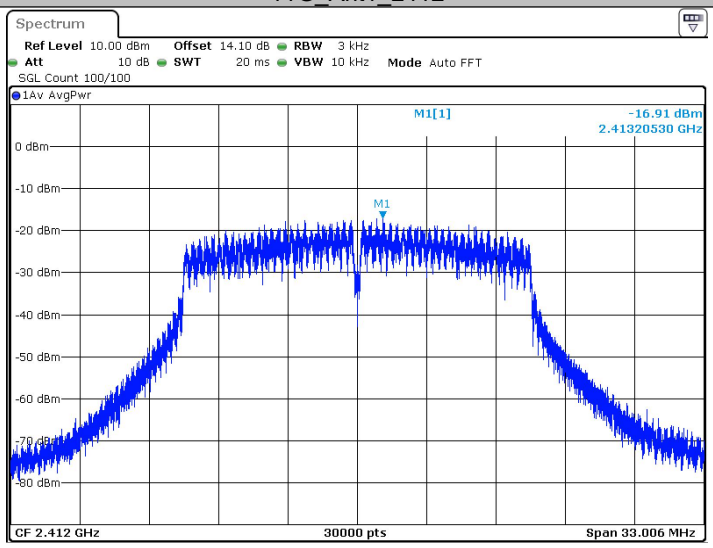


11B_Ant1_2462



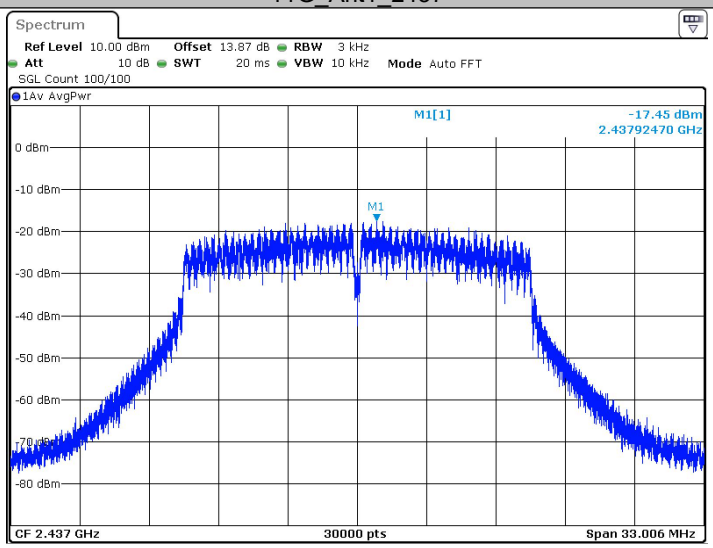
Date: 22.MAR.2025 10:28:02

11G_Ant1_2412



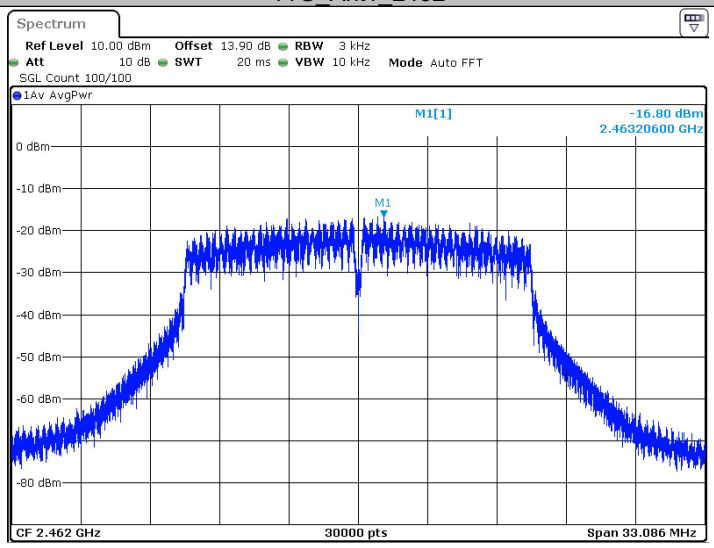
Date: 22.MAR.2025 10:29:24

11G_Ant1_2437



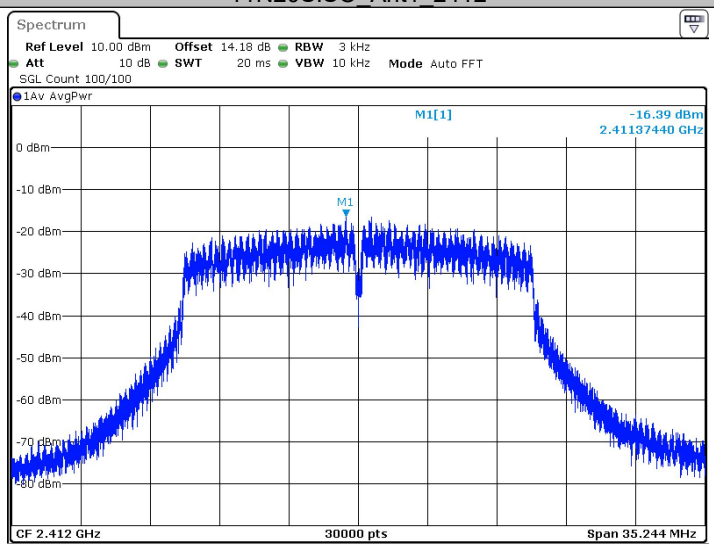
Date: 22.MAR.2025 10:30:38

11G_Ant1_2462



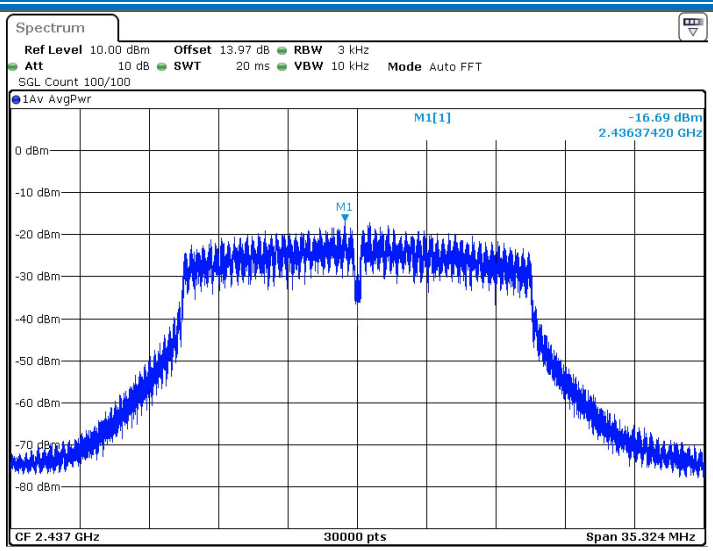
Date: 22.MAR.2025 10:32:22

11N20SISO_Ant1_2412



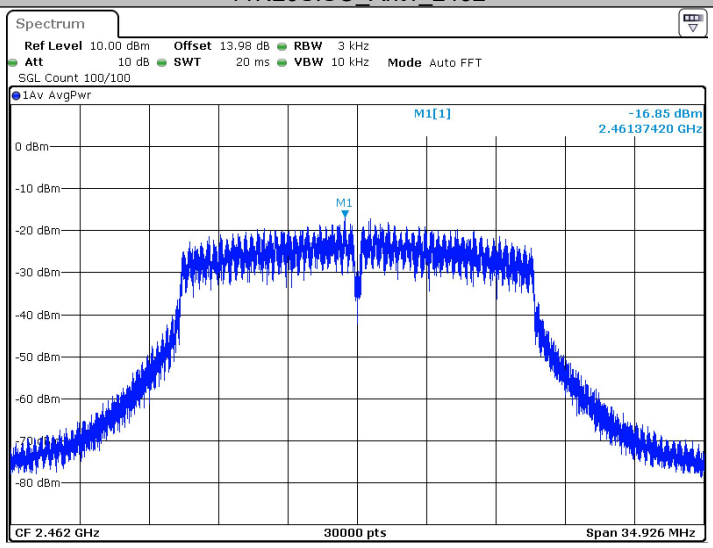
Date: 22.MAR.2025 10:33:27

11N20SISO_Ant1_2437



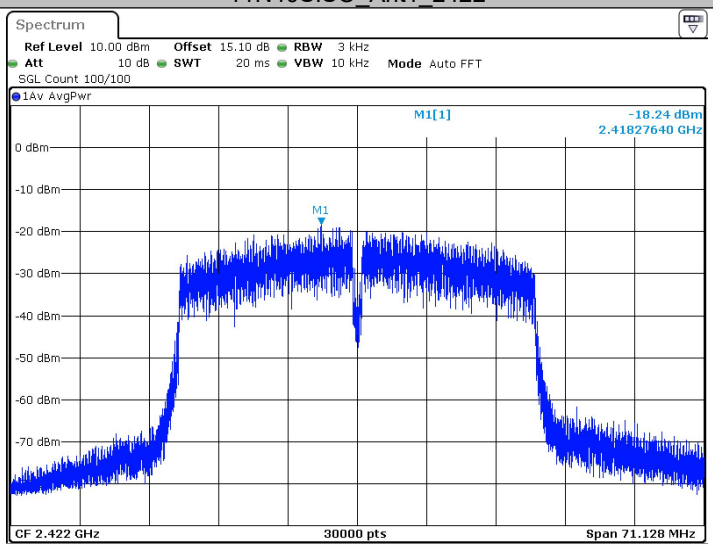
Date: 22.MAR.2025 10:34:25

11N20SISO_Ant1_2462



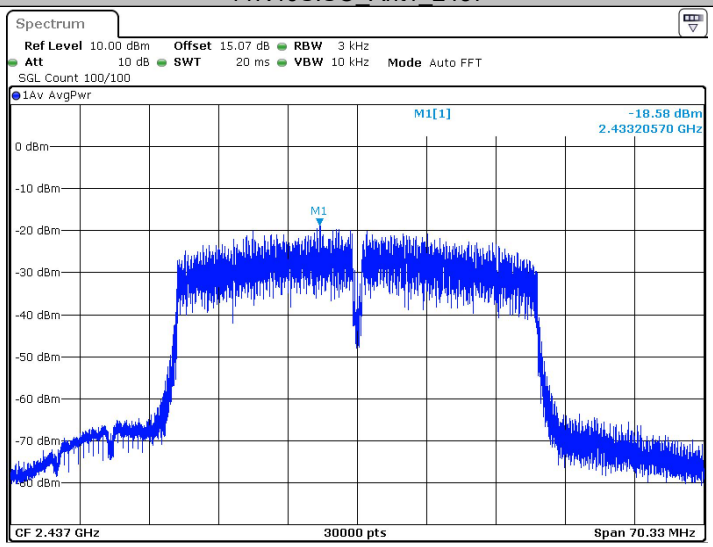
Date: 22.MAR.2025 10:35:24

11N40SISO_Ant1_2422



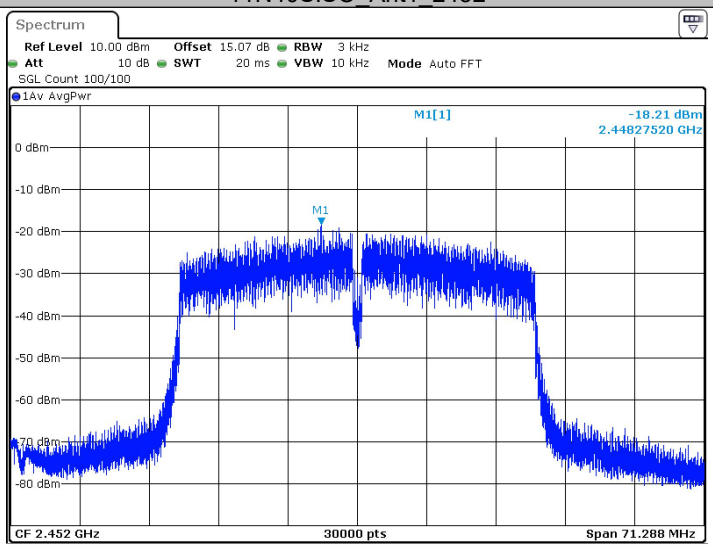
Date: 22.MAR.2025 10:36:27

11N40SISO_Ant1_2437



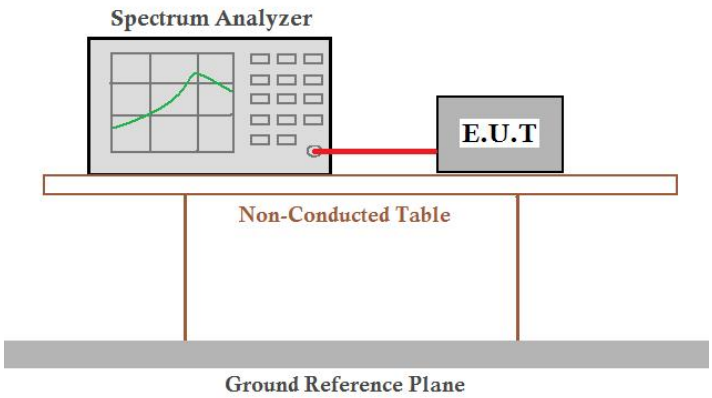
Date: 22.MAR.2025 10:37:34

11N40SISO_Ant1_2452



Date: 22.MAR.2025 10:38:26

5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
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