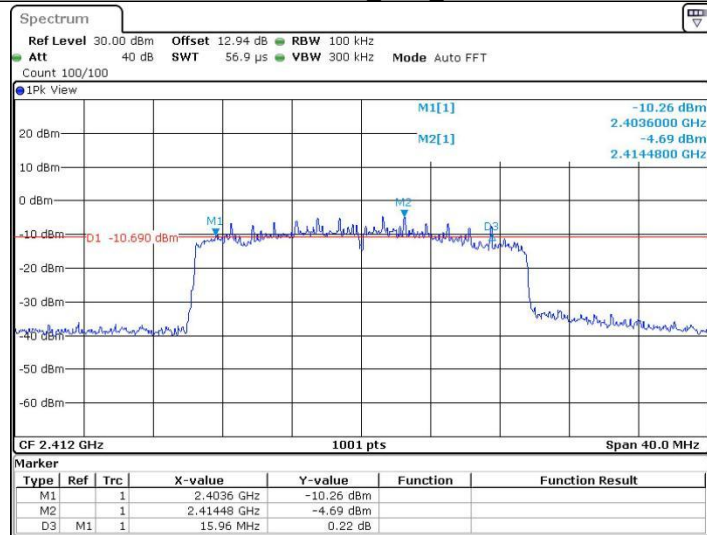
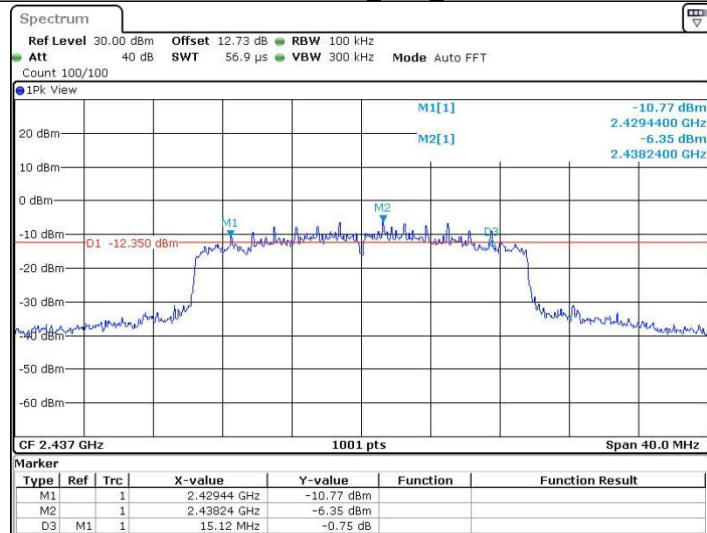


11AX20SISO_Ant2_2412



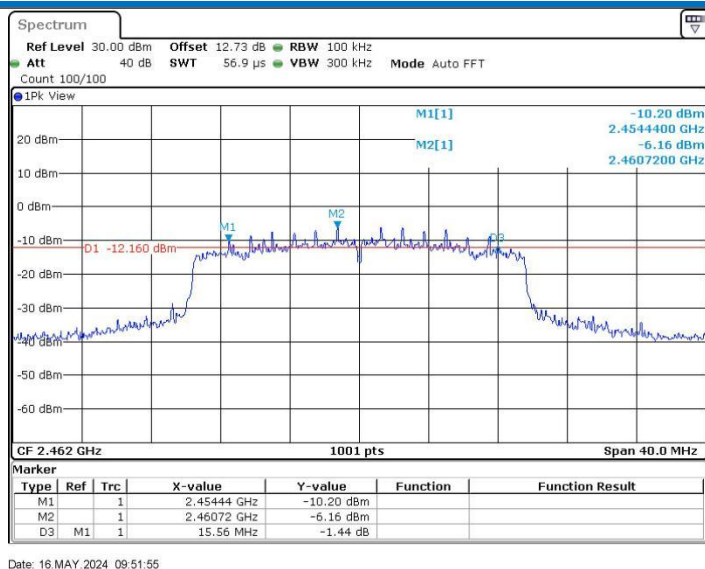
Date: 16 MAY 2024 09:46:38

11AX20SISO_Ant2_2437



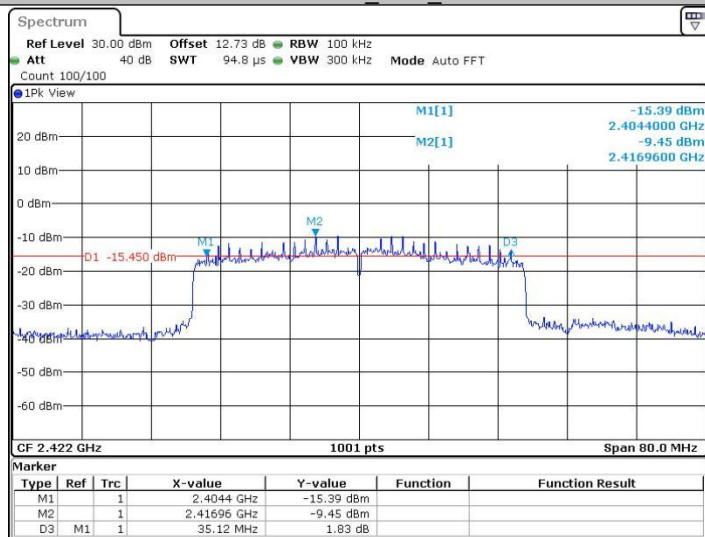
Date: 16 MAY 2024 09:49:38

11AX20SISO_Ant2_2462



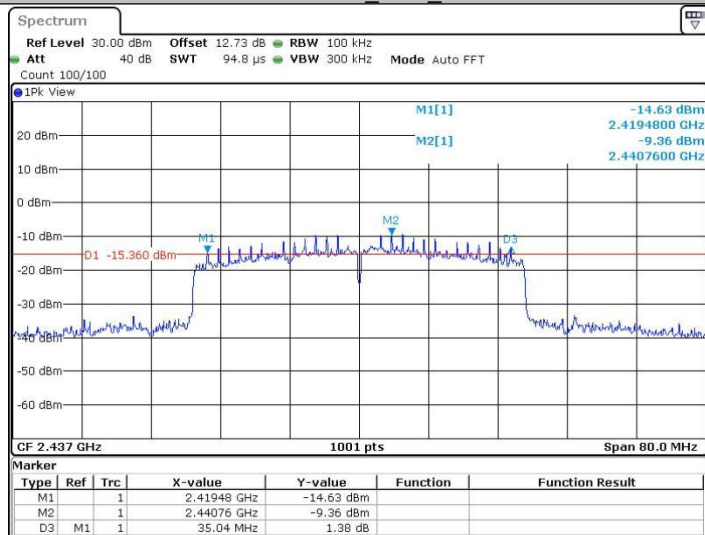
Date: 16 MAY 2024 09:51:55

11AX40SISO_Ant2_2422

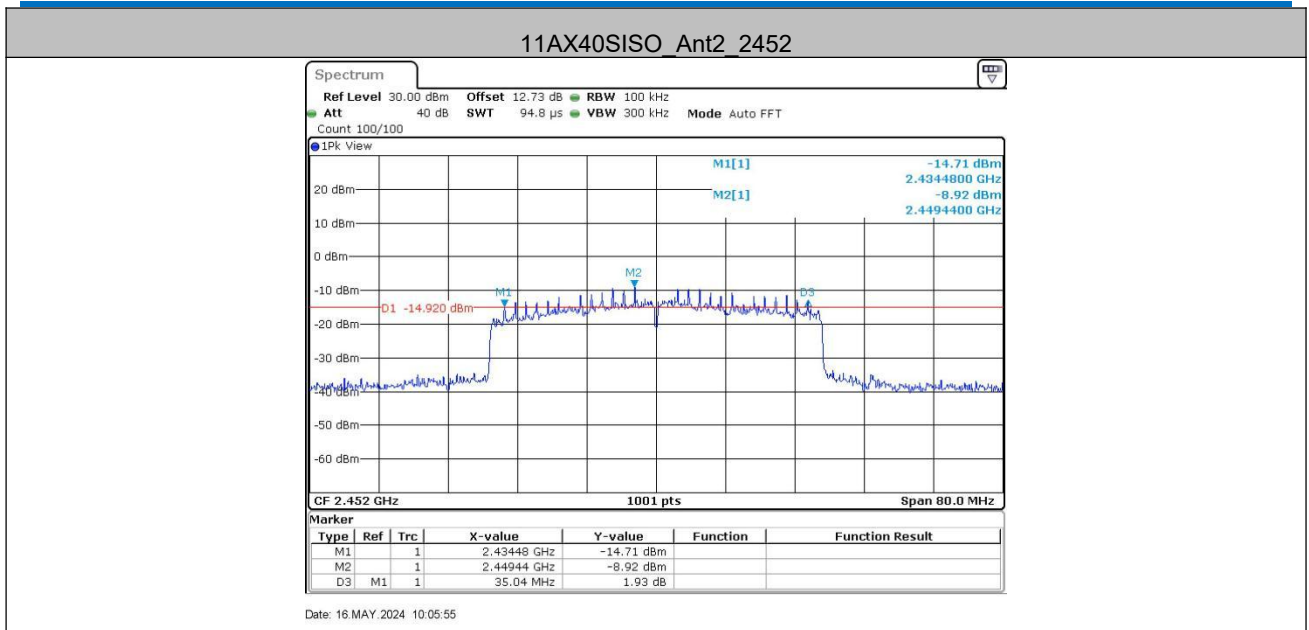


Date: 16 MAY 2024 09:54:50

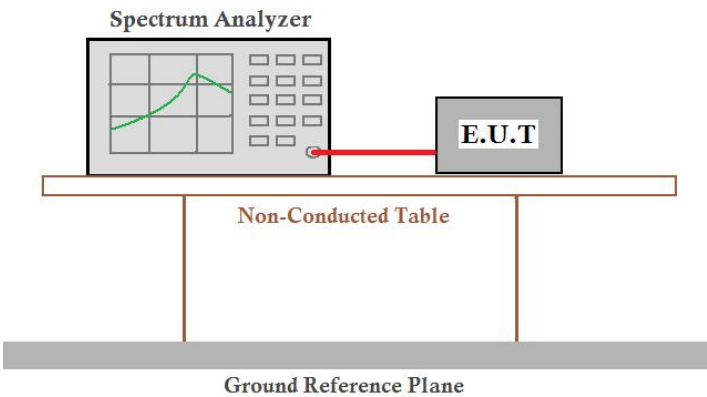
11AX40SISO_Ant2_2437



Date: 16 MAY 2024 10:04:25



5.5 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

Ant1:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-23.69	≤5.95	PASS
	2437	-21.76	≤5.95	PASS
	2462	-22.63	≤5.95	PASS
11G	2412	-25.34	≤5.95	PASS
	2437	-26.25	≤5.95	PASS
	2462	-26.09	≤5.95	PASS
11N20SISO	2412	-27.35	≤5.95	PASS
	2437	-28.81	≤5.95	PASS
	2462	-28.36	≤5.95	PASS
11N40SISO	2422	-30.88	≤5.95	PASS
	2437	-30.84	≤5.95	PASS
	2452	-30.73	≤5.95	PASS
11AX20SISO	2412	-24.43	≤5.95	PASS
	2437	-25.37	≤5.95	PASS
	2462	-25.12	≤5.95	PASS
11AX40SISO	2422	-28.72	≤5.95	PASS
	2437	-28.77	≤5.95	PASS
	2452	-30.07	≤5.95	PASS

PSD Limit=Conducted output power Limit-(gains-6dBi)

gain:8.05dBi

Ant2:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-23.15	≤5.95	PASS
	2437	-24.71	≤5.95	PASS
	2462	-24.26	≤5.95	PASS
11G	2412	-26.62	≤5.95	PASS
	2437	-27.59	≤5.95	PASS
	2462	-27.73	≤5.95	PASS
11N20SISO	2412	-26.91	≤5.95	PASS
	2437	-27.76	≤5.95	PASS
	2462	-27.63	≤5.95	PASS
11N40SISO	2422	-30.31	≤5.95	PASS
	2437	-30.23	≤5.95	PASS
	2452	-30.36	≤5.95	PASS
11AX20SISO	2412	-23.86	≤5.95	PASS
	2437	-24.77	≤5.95	PASS
	2462	-25.02	≤5.95	PASS
11AX40SISO	2422	-28.62	≤5.95	PASS
	2437	-28.44	≤5.95	PASS
	2452	-28.26	≤5.95	PASS

PSD Limit=Conducted output power Limit-(gains-6dBi)

gain:8.05dBi

Ant1+Ant2:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	2412	-24.11	≤2.94	PASS
	2437	-25.24	≤2.94	PASS
	2462	-24.97	≤2.94	PASS
11N40MIMO	2422	-27.58	≤2.94	PASS
	2437	-27.51	≤2.94	PASS
	2452	-27.53	≤2.94	PASS
11AX20MIMO	2412	-21.13	≤2.94	PASS
	2437	-22.05	≤2.94	PASS
	2462	-22.06	≤2.94	PASS
11AX40MIMO	2422	-25.66	≤2.94	PASS
	2437	-25.59	≤2.94	PASS
	2452	-26.06	≤2.94	PASS

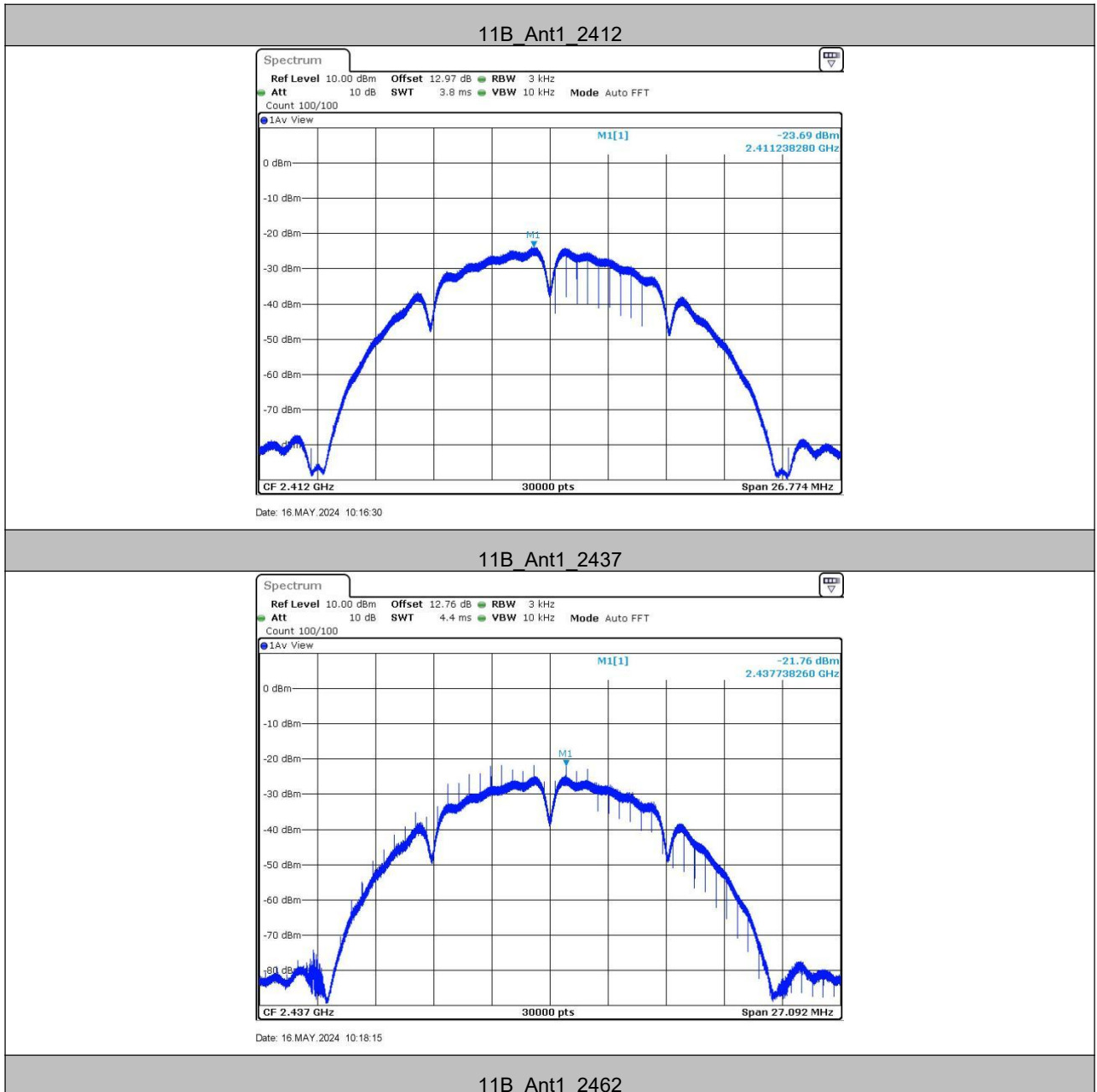
MIMO PSD limit=Conducted output power Limit-(directional gains-6dBi)

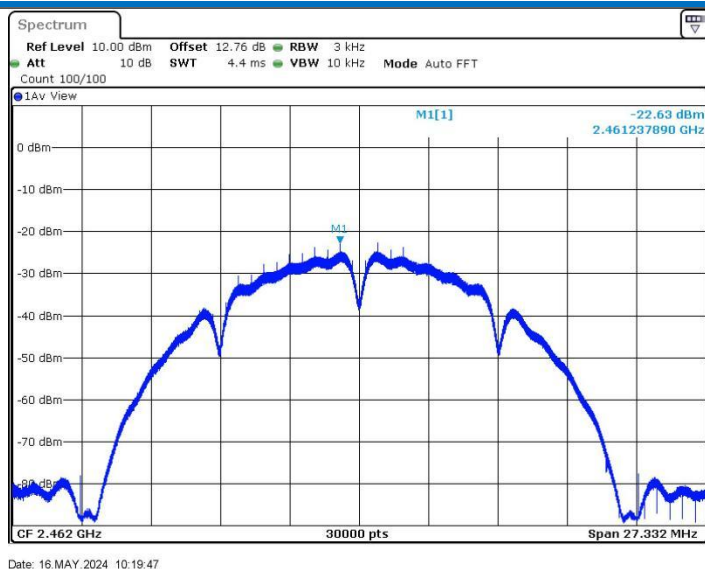
Directional gain:11.06dBi

Note:

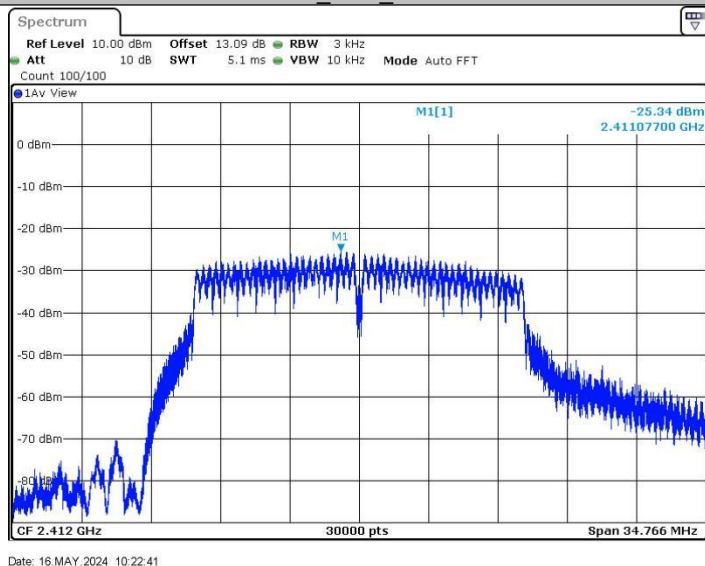
When Duty cycle >98%, D.C.F is not required.

Test Graphs

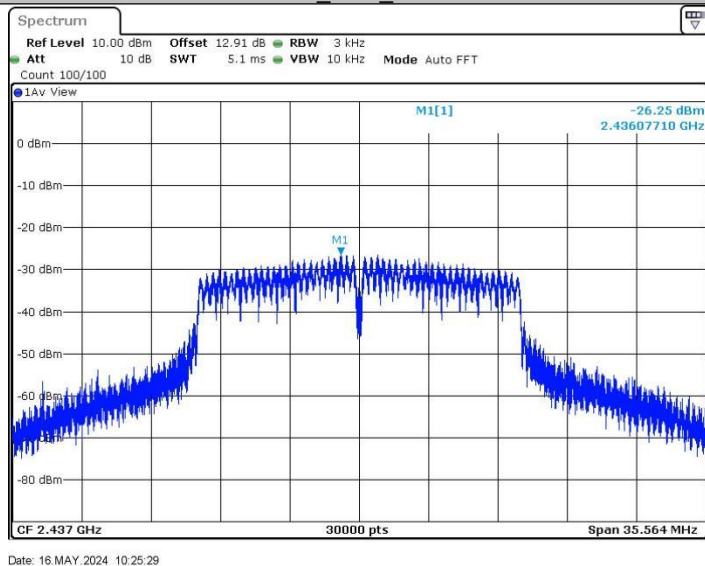




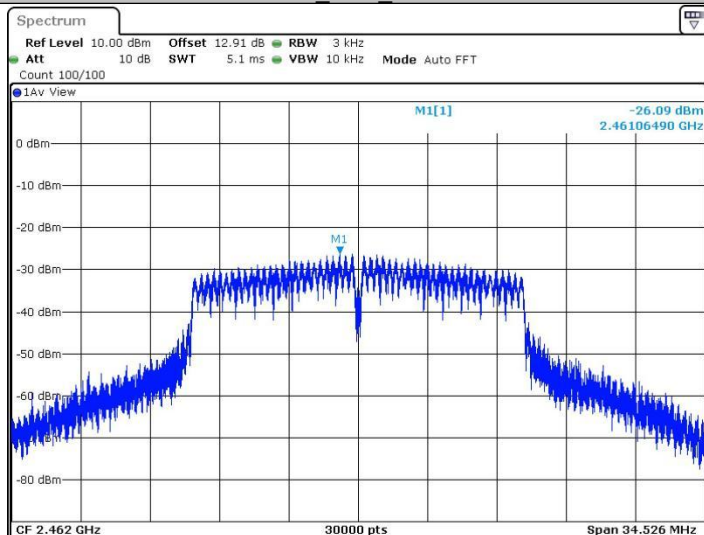
11G_Ant1_2412



11G_Ant1_2437

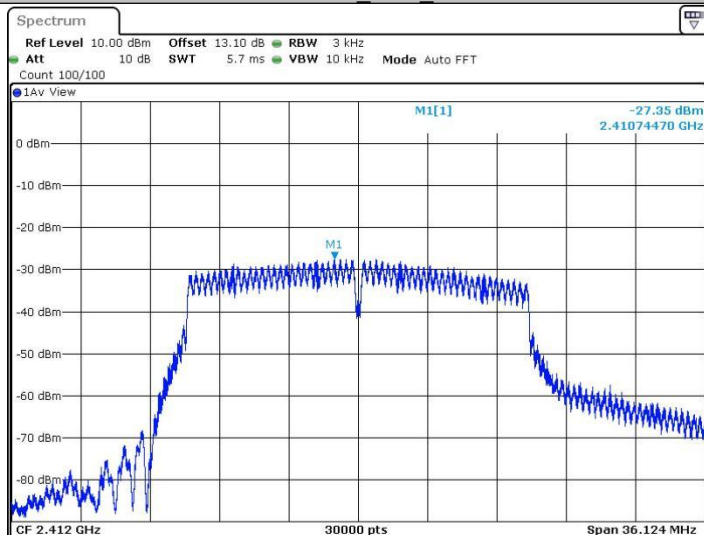


11G_Ant1_2462



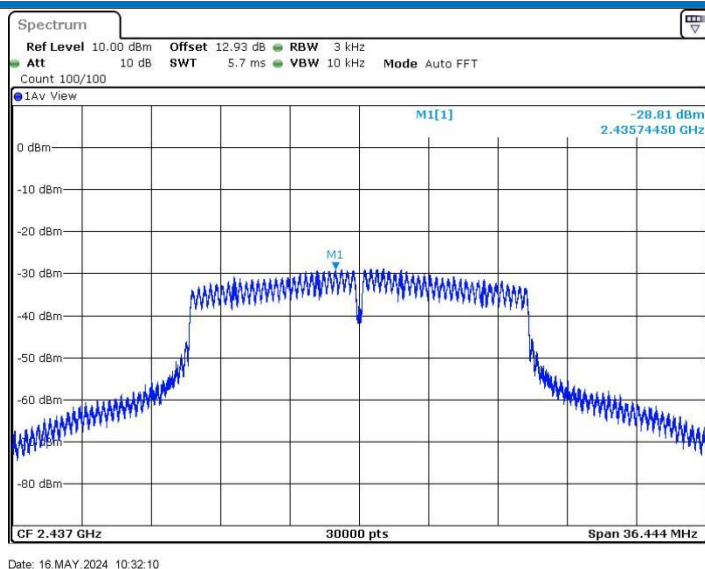
Date: 16 MAY 2024 10:27:56

11N20SISO_Ant1_2412

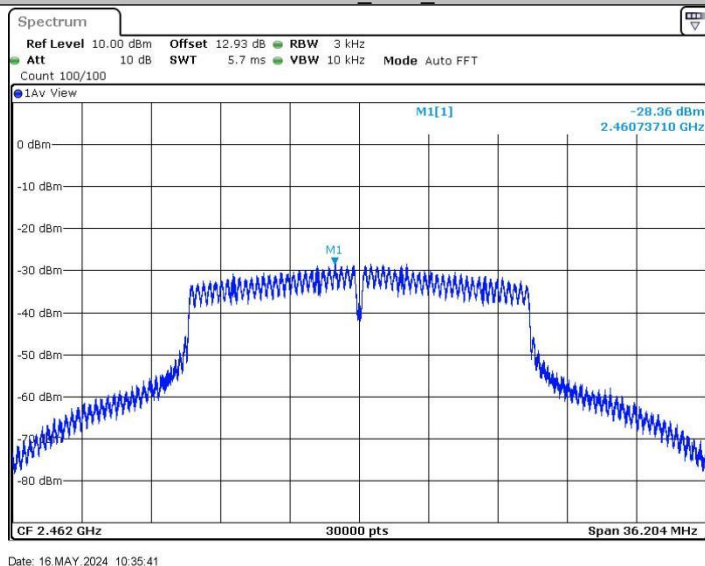


Date: 16 MAY 2024 10:29:54

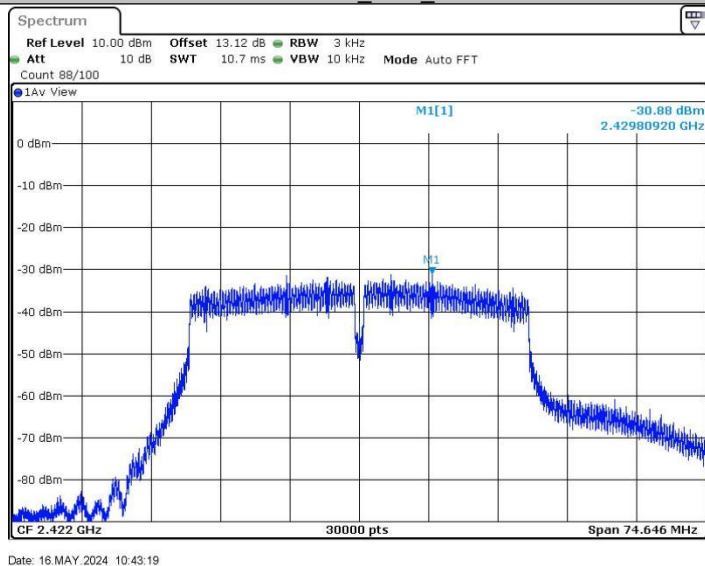
11N20SISO_Ant1_2437



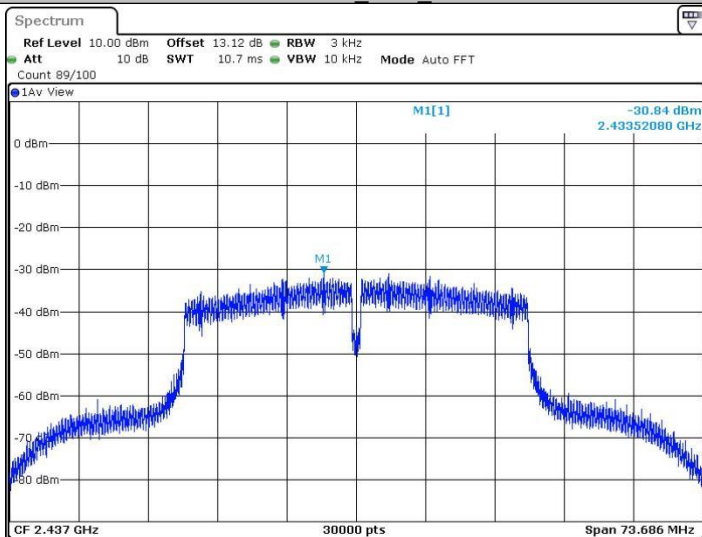
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

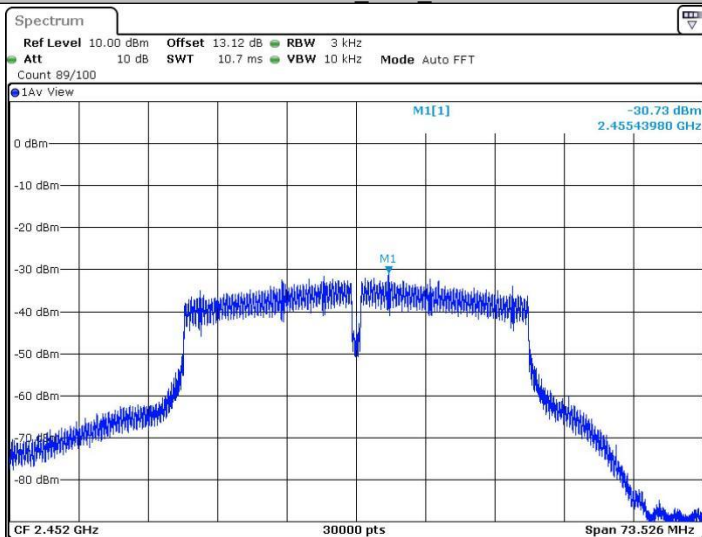


11N40SISO_Ant1_2437



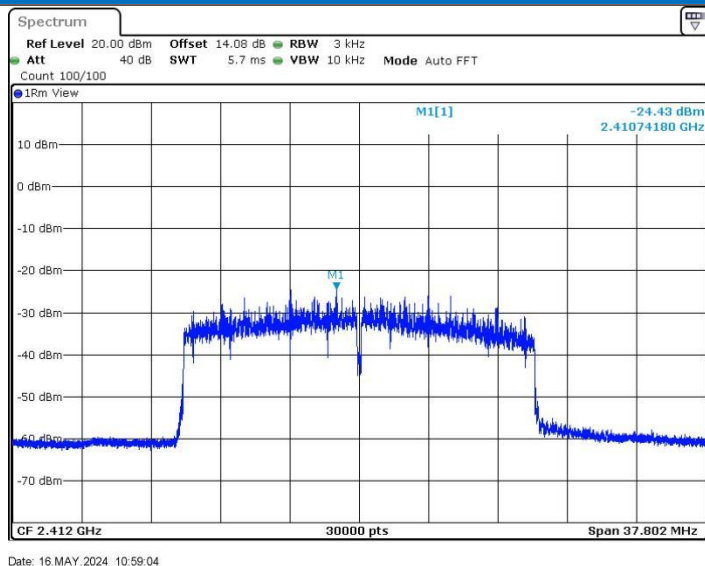
Date: 16 MAY 2024 10:44:59

11N40SISO_Ant1_2452

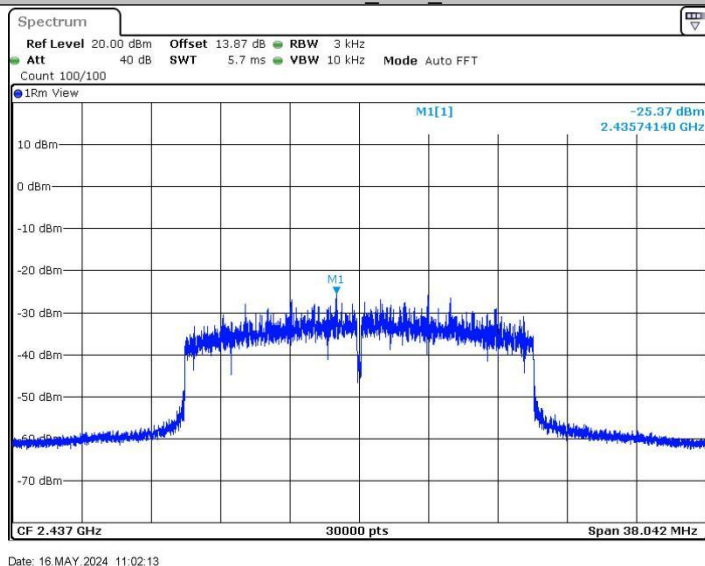


Date: 16 MAY 2024 10:47:29

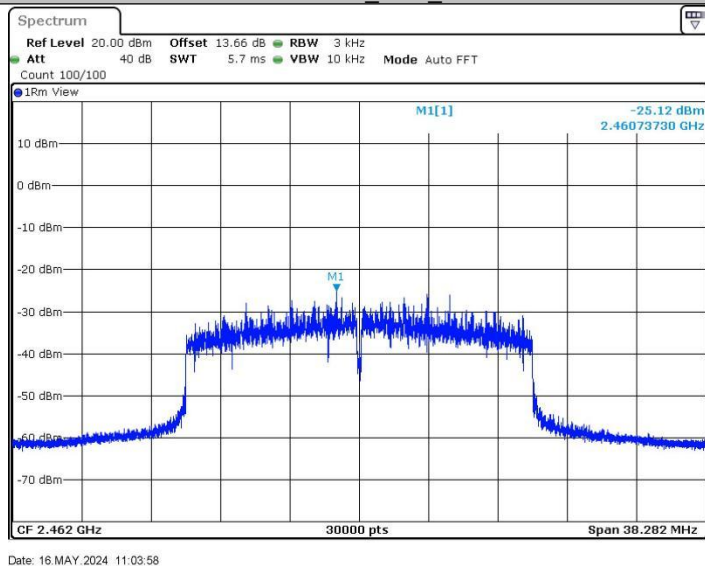
11AX20SISO_Ant1_2412



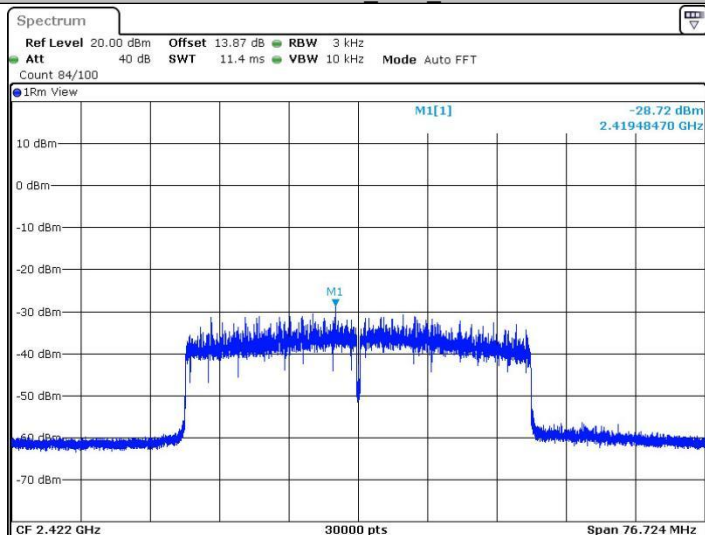
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

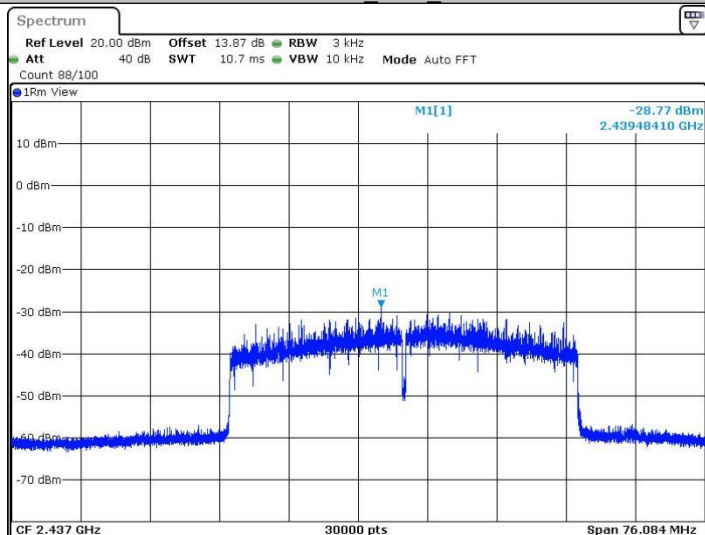


11AX40SISO_Ant1_2422



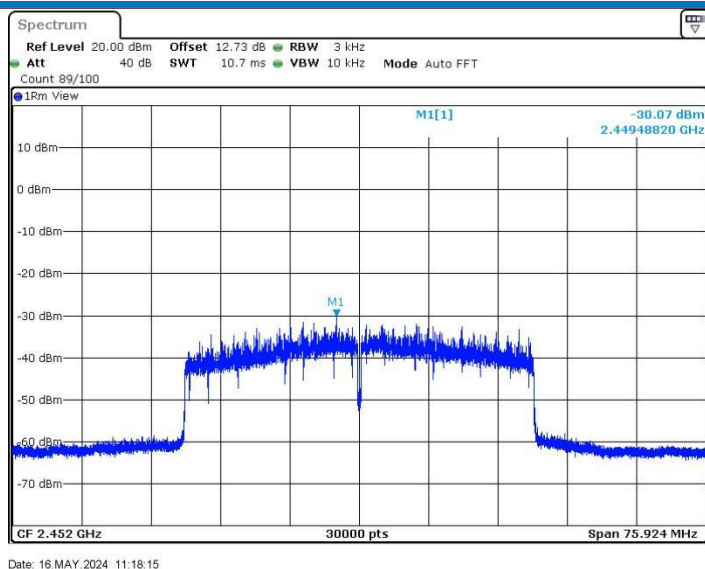
Date: 16 MAY 2024 11:06:46

11AX40SISO_Ant1_2437

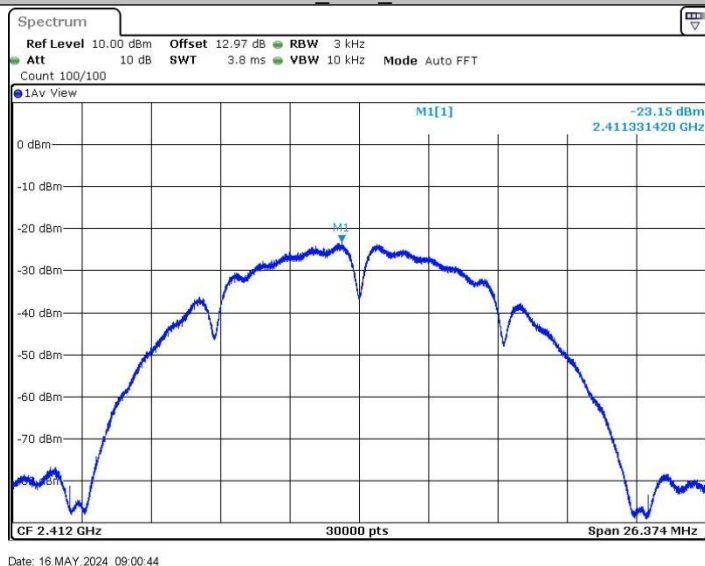


Date: 16 MAY 2024 11:13:32

11AX40SISO_Ant1_2452



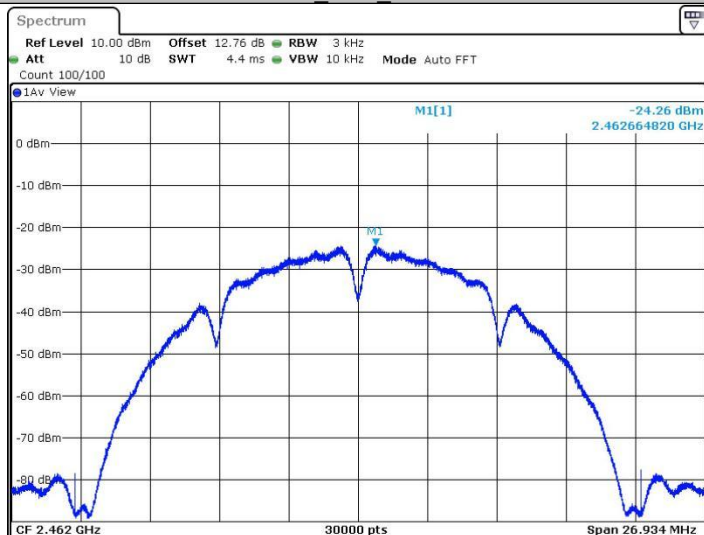
11B_Ant2_2412



11B_Ant2_2437

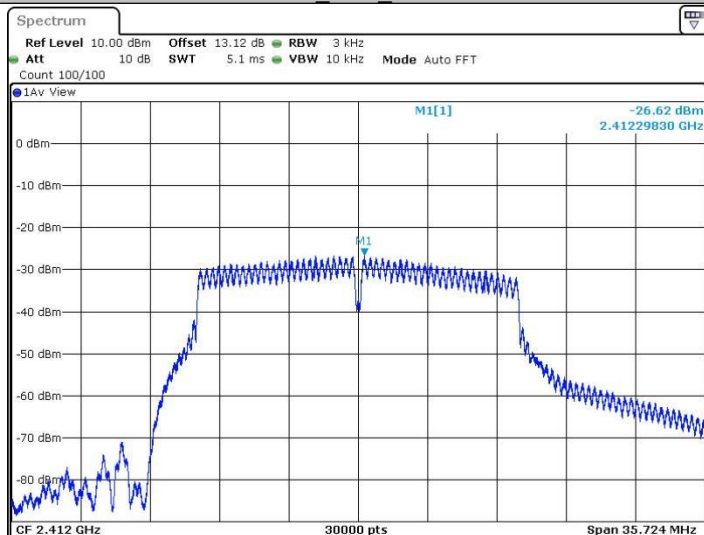


11B_Ant2_2462



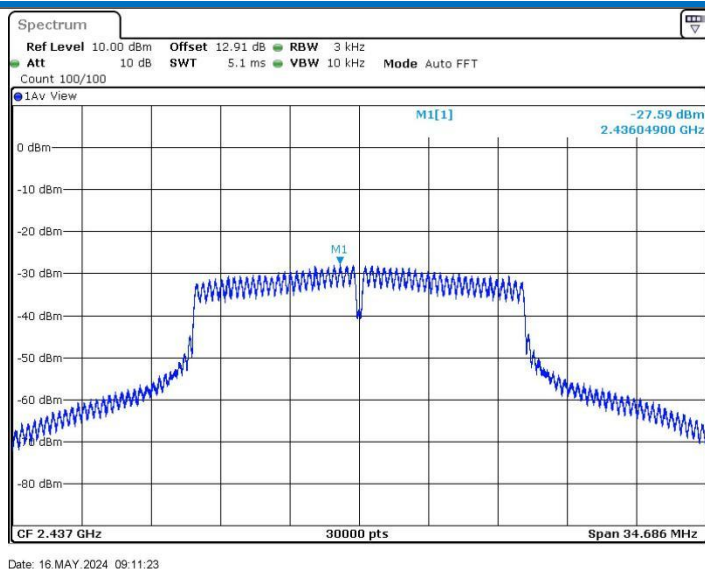
Date: 16 MAY 2024 09:04:58

11G_Ant2_2412

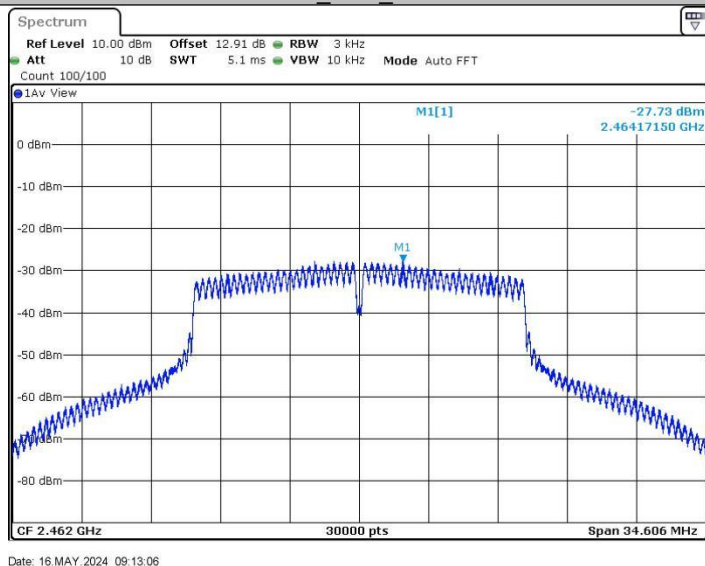


Date: 16 MAY 2024 09:09:33

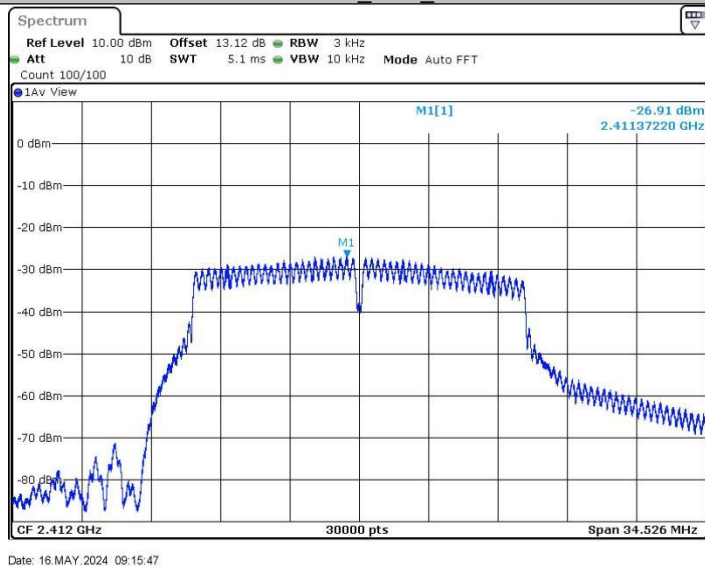
11G_Ant2_2437



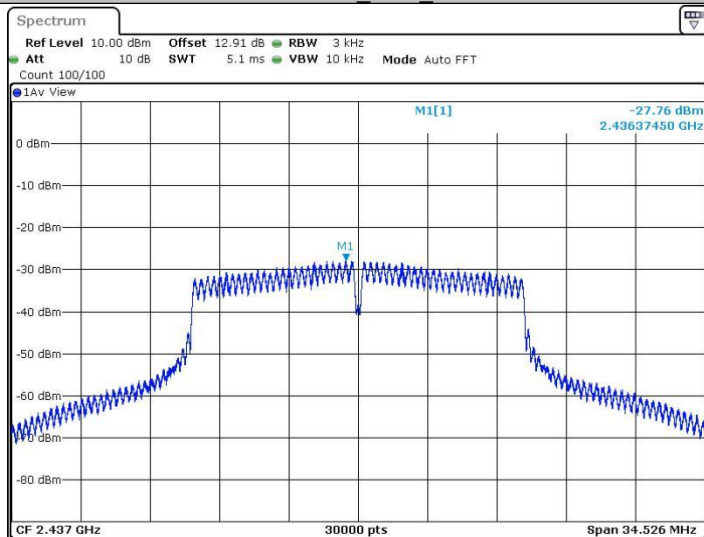
11G_Ant2_2462



11N20SISO_Ant2_2412

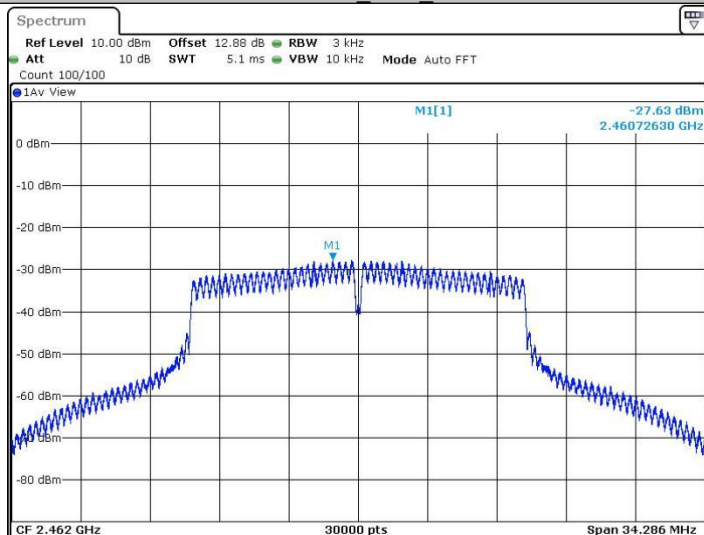


11N20SISO_Ant2_2437



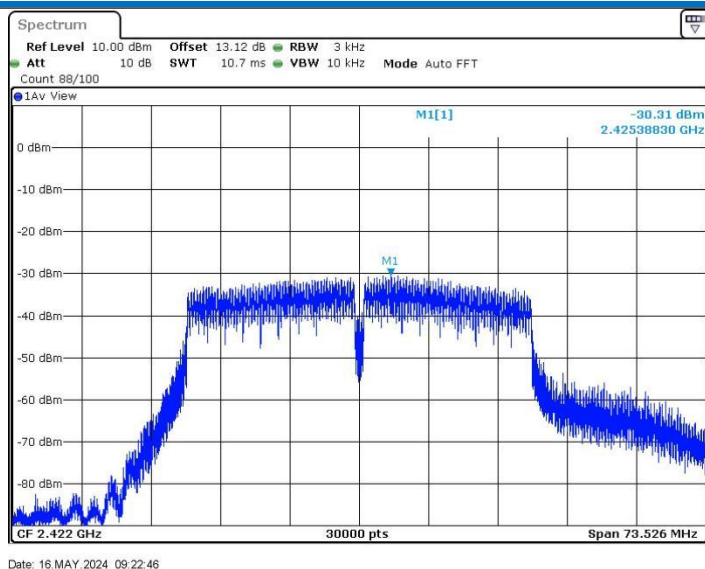
Date: 16 MAY 2024 09:17:28

11N20SISO_Ant2_2462

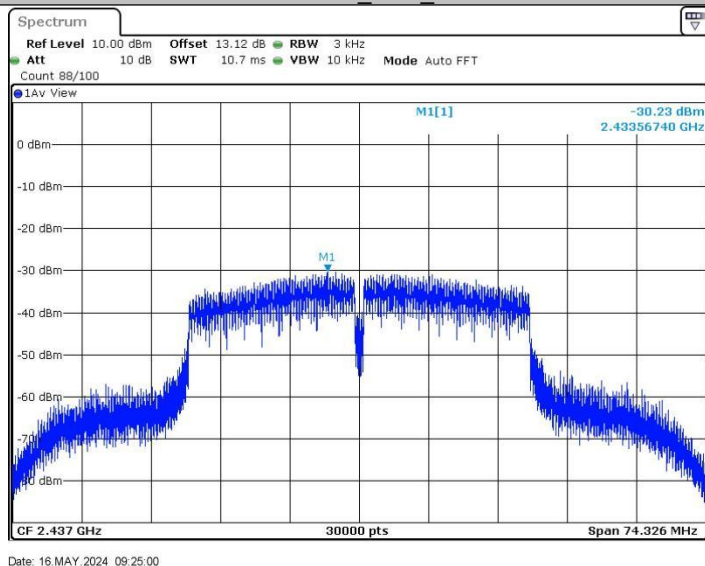


Date: 16 MAY 2024 09:18:59

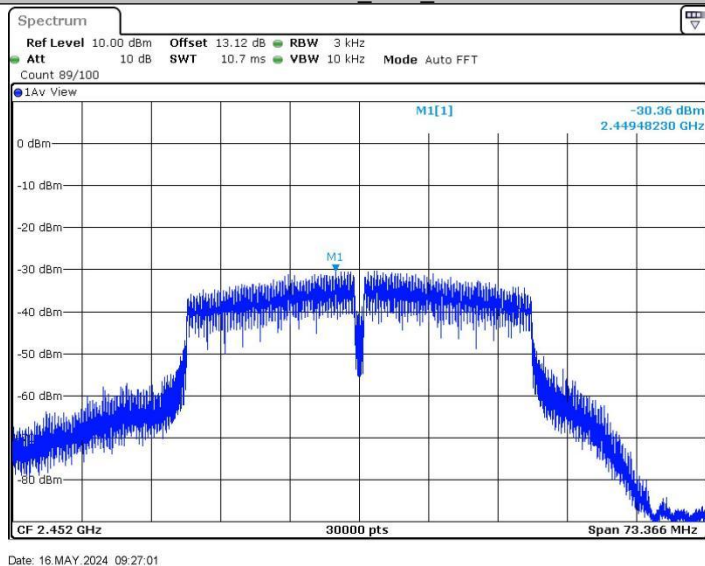
11N40SISO_Ant2_2422



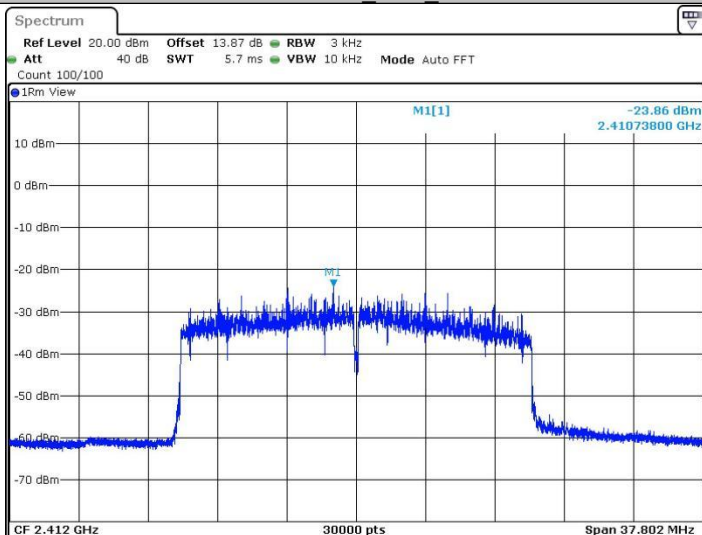
11N40SISO_Ant2_2437



11N40SISO_Ant2_2452

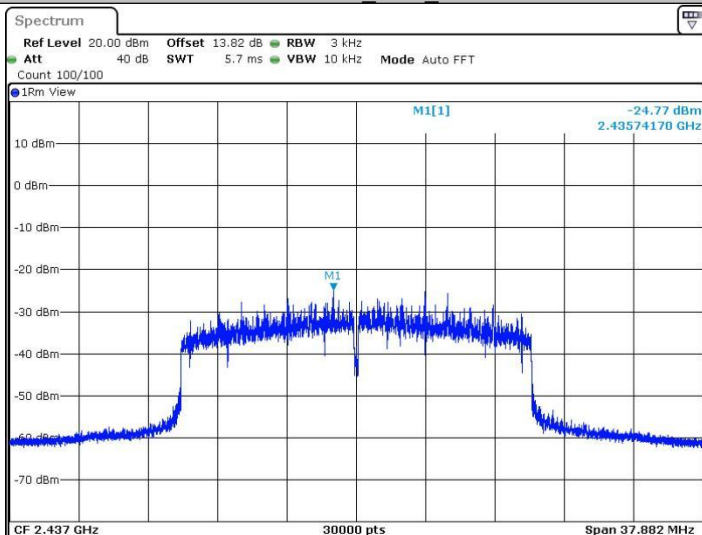


11AX20SISO_Ant2_2412



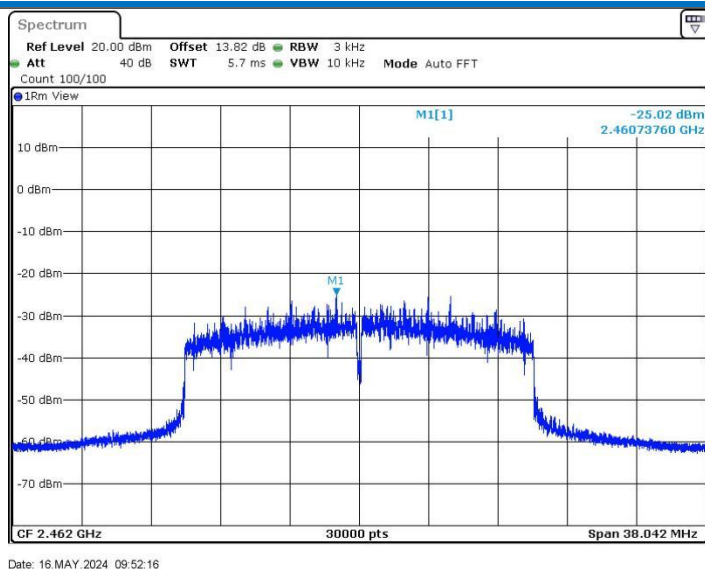
Date: 16 MAY 2024 09:47:22

11AX20SISO_Ant2_2437

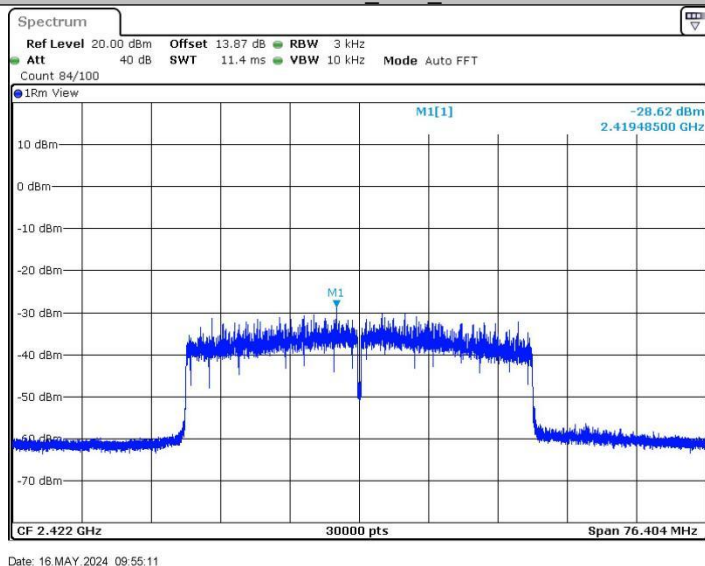


Date: 16 MAY 2024 09:49:59

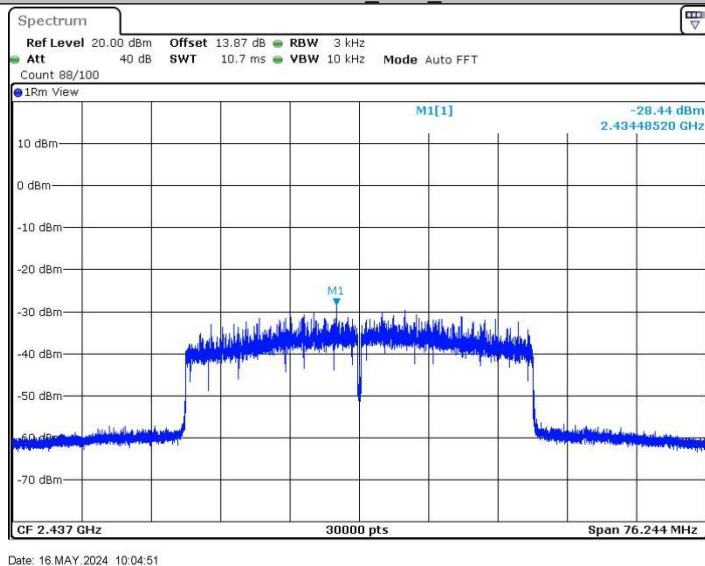
11AX20SISO_Ant2_2462

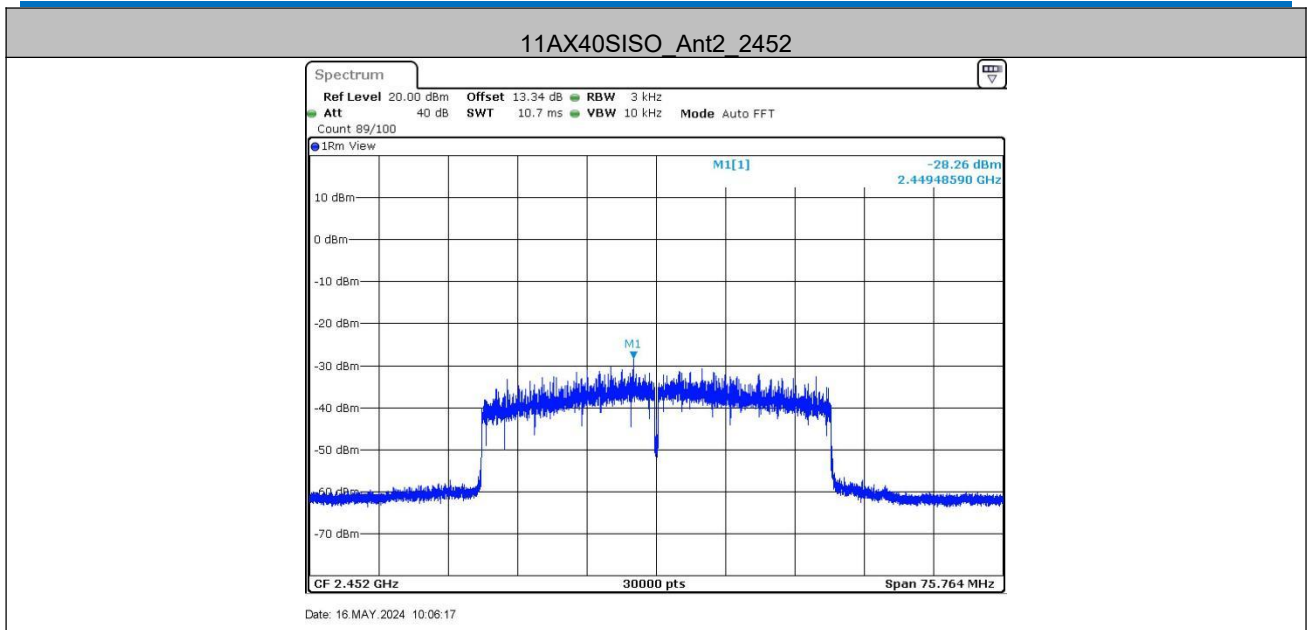


11AX40SISO_Ant2_2422

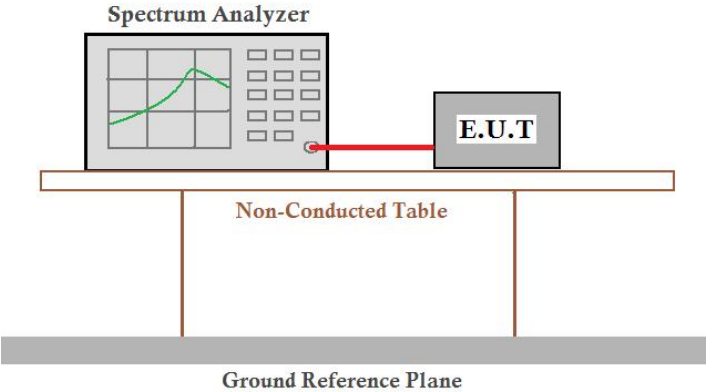


11AX40SISO_Ant2_2437





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:	 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

Test Result

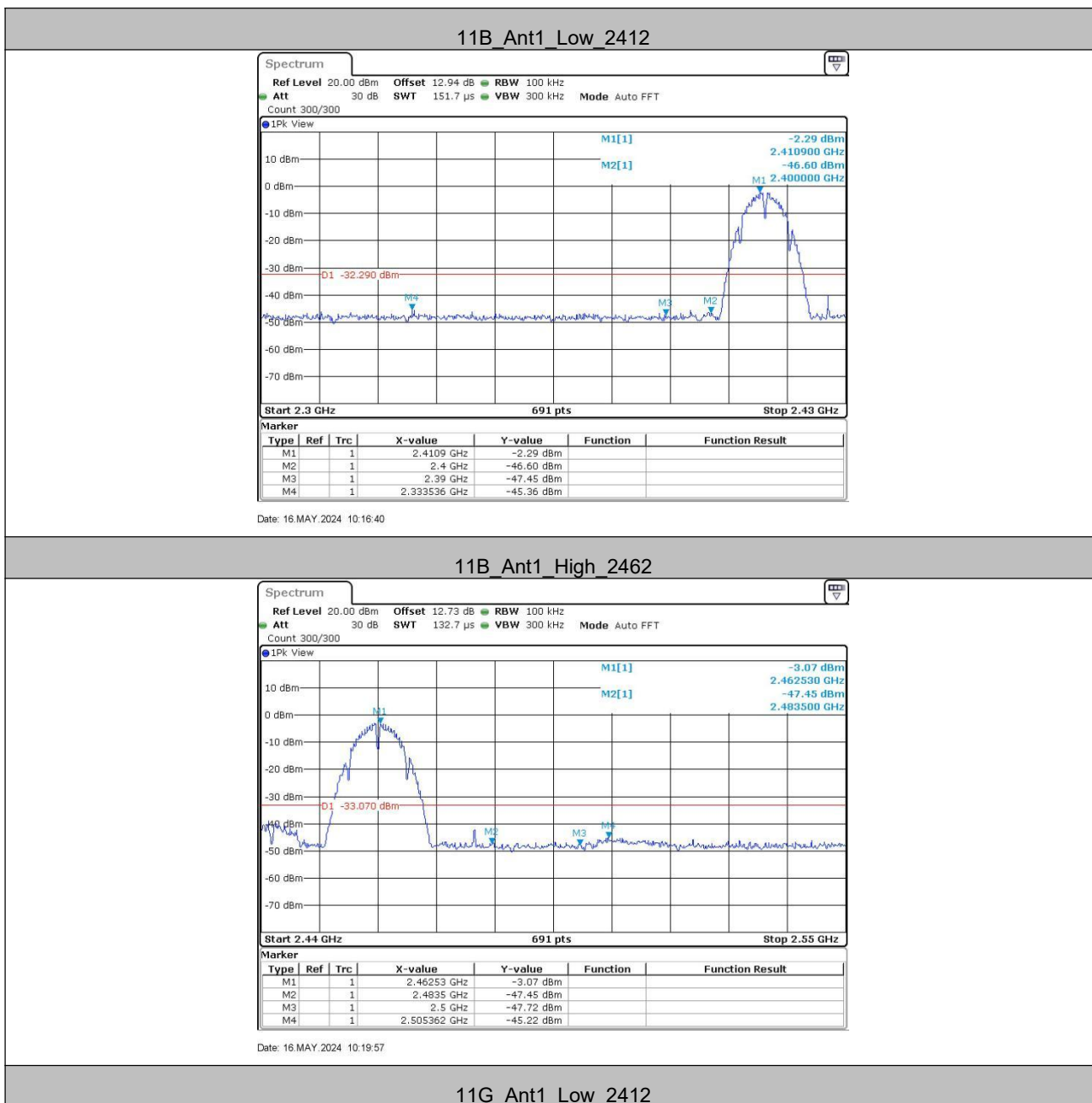
Ant1:

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	-2.29	-45.36	≤ -32.29	PASS
	High	2462	-3.07	-45.22	≤ -33.07	PASS
11G	Low	2412	-3.97	-45.84	≤ -33.97	PASS
	High	2462	-7.92	-45.12	≤ -37.92	PASS
11N20SISO	Low	2412	-4.38	-45.18	≤ -34.38	PASS
	High	2462	-5.81	-44.71	≤ -35.81	PASS
11N40SISO	Low	2422	-9.79	-43.6	≤ -39.79	PASS
	High	2452	-9.27	-44.22	≤ -39.27	PASS
11AX20SISO	Low	2412	-5.60	-54.94	≤ -35.6	PASS
	High	2462	-5.76	-62.92	≤ -35.76	PASS
11AX40SISO	Low	2422	-9.22	-46.19	≤ -39.22	PASS
	High	2452	-8.97	-63.11	≤ -38.97	PASS

Ant1:

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	-0.82	-45.94	≤ -30.82	PASS
	High	2462	-1.45	-44.53	≤ -31.45	PASS
11G	Low	2412	-3.53	-45.47	≤ -33.53	PASS
	High	2462	-5.35	-44.06	≤ -35.35	PASS
11N20SISO	Low	2412	-3.77	-45.16	≤ -33.77	PASS
	High	2462	-5.94	-44.63	≤ -35.94	PASS
11N40SISO	Low	2422	-9.29	-44.14	≤ -39.29	PASS
	High	2452	-9.05	-44.98	≤ -39.05	PASS
11AX20SISO	Low	2412	-5.01	-35.97	≤ -35.01	PASS
	High	2462	-5.61	-62.54	≤ -35.61	PASS
11AX40SISO	Low	2422	-9.35	-46.46	≤ -39.35	PASS
	High	2452	-8.80	-62.13	≤ -38.8	PASS

5.6.1 Test Graphs





Date: 16 MAY 2024 10:22:52

11G_Ant1_High_2462



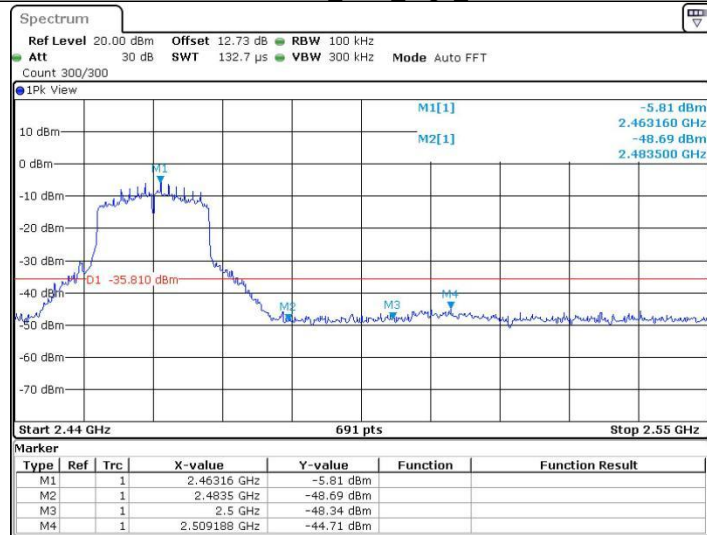
Date: 16 MAY 2024 10:28:06

11N20SISO_Ant1_Low_2412



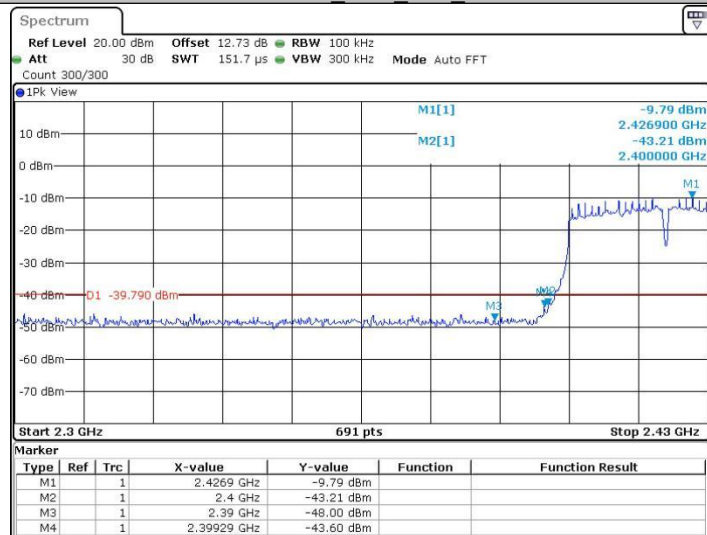
Date: 16 MAY 2024 10:30:05

11N20SISO_Ant1_High_2462



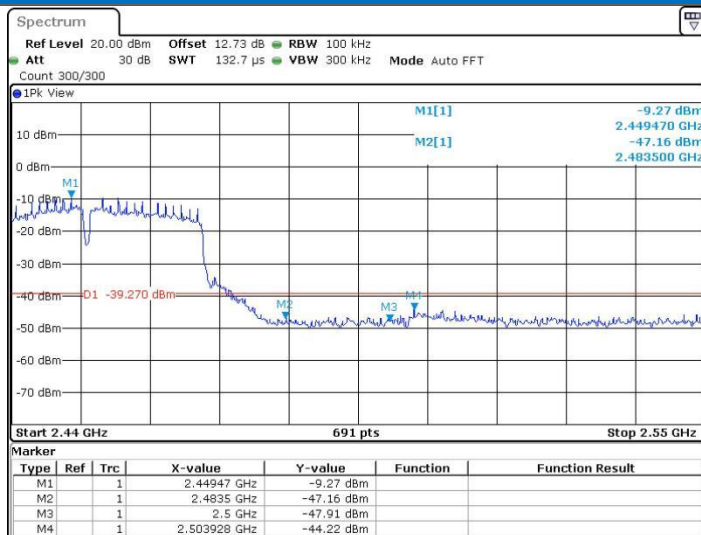
Date: 16 MAY 2024 10:35:51

11N40SISO_Ant1_Low_2422



Date: 16 MAY 2024 10:43:29

11N40SISO_Ant1_High_2452



Date: 16 MAY 2024 10:47:39

11AX20SISO_Ant1_Low_2412



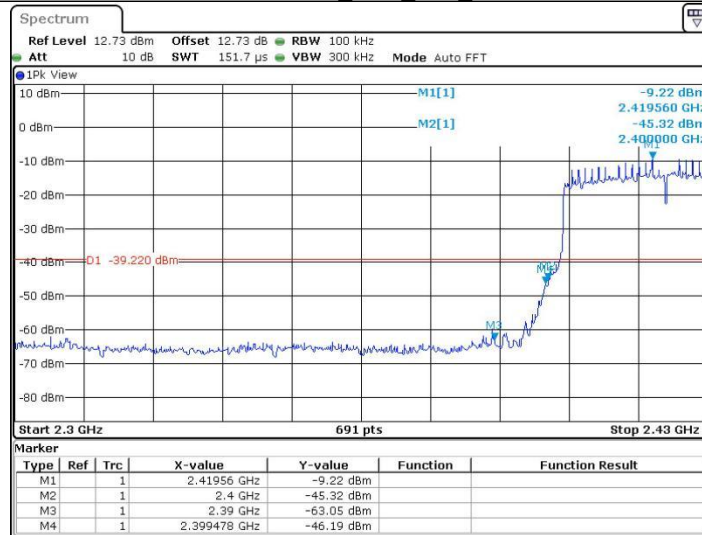
Date: 16 MAY 2024 10:59:14

11AX20SISO_Ant1_High_2462



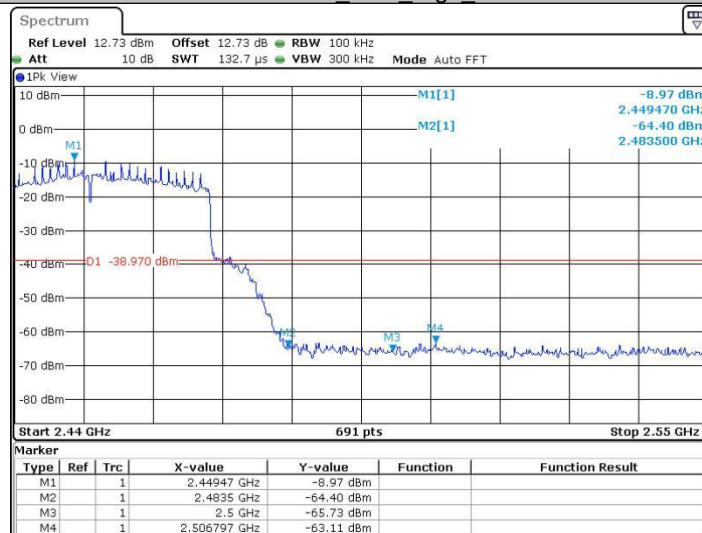
Date: 16 MAY 2024 11:04:08

11AX40SISO_Ant1_Low_2422



Date: 16 MAY 2024 11:06:56

11AX40SISO_Ant1_High_2452



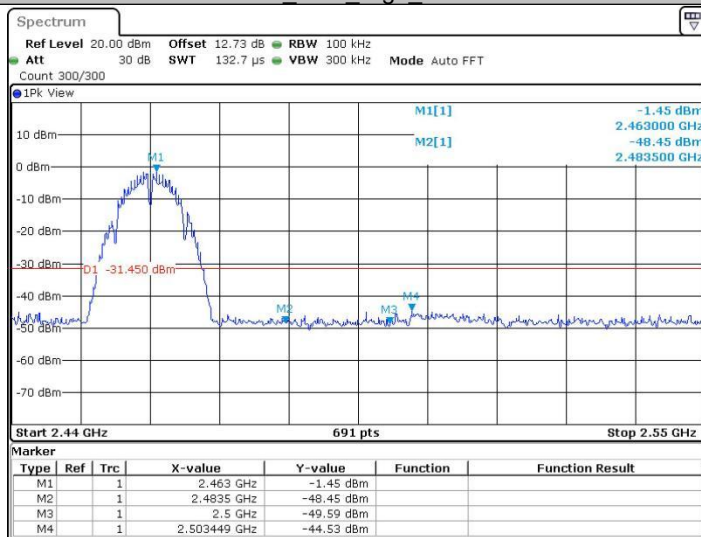
Date: 16 MAY 2024 11:18:25

11B Ant2 Low 2412



Date: 16 MAY 2024 09:00:55

11B Ant2 High 2462



Date: 16 MAY 2024 09:05:08

11G Ant2 Low 2412



Date: 16 MAY 2024 09:09:43

11G_Ant2_High_2462



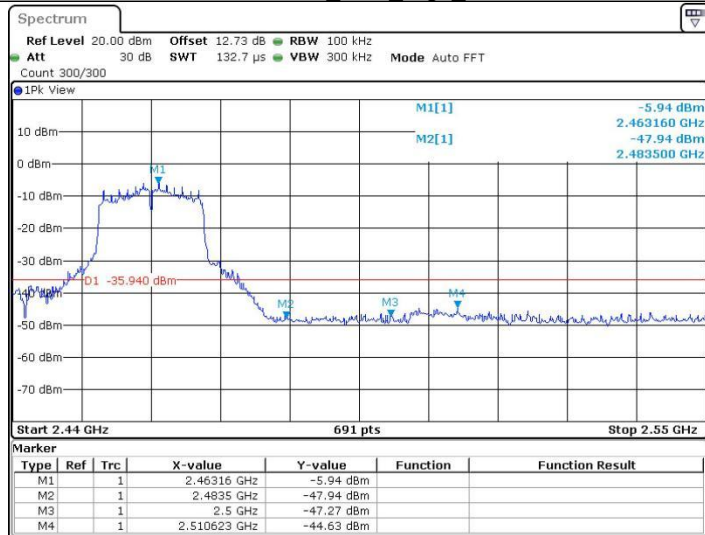
Date: 16 MAY 2024 09:13:16

11N20SISO_Ant2_Low_2412



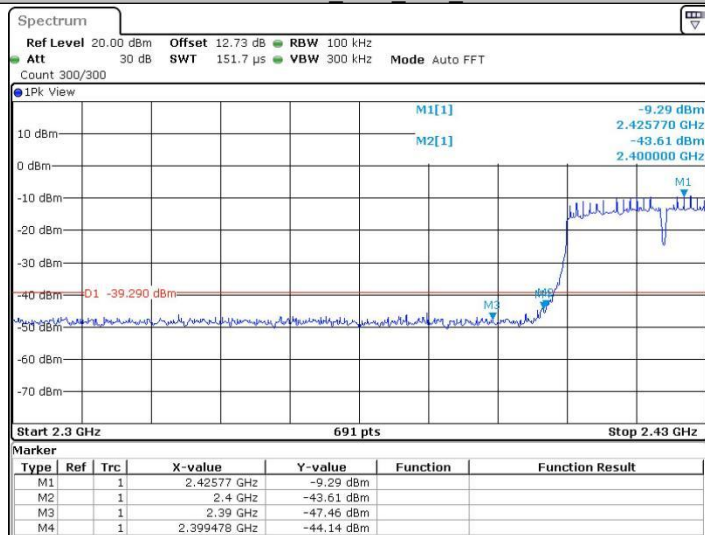
Date: 16 MAY 2024 09:15:57

11N20SISO_Ant2_High_2462



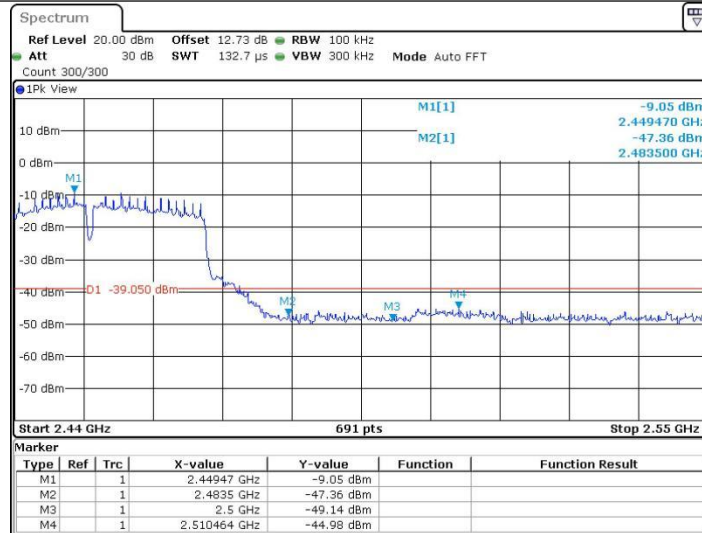
Date: 16 MAY 2024 09:19:09

11N40SISO_Ant2_Low_2422



Date: 16 MAY 2024 09:22:57

11N40SISO_Ant2_High_2452



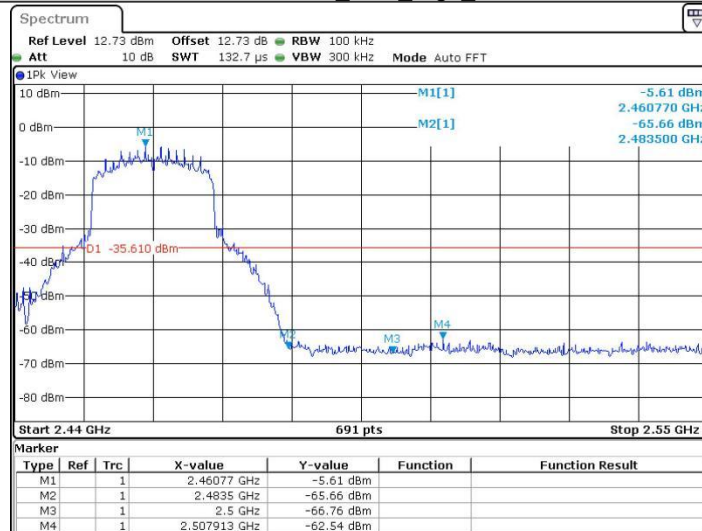
Date: 16 MAY 2024 09:27:11

11AX20SISO_Ant2_Low_2412



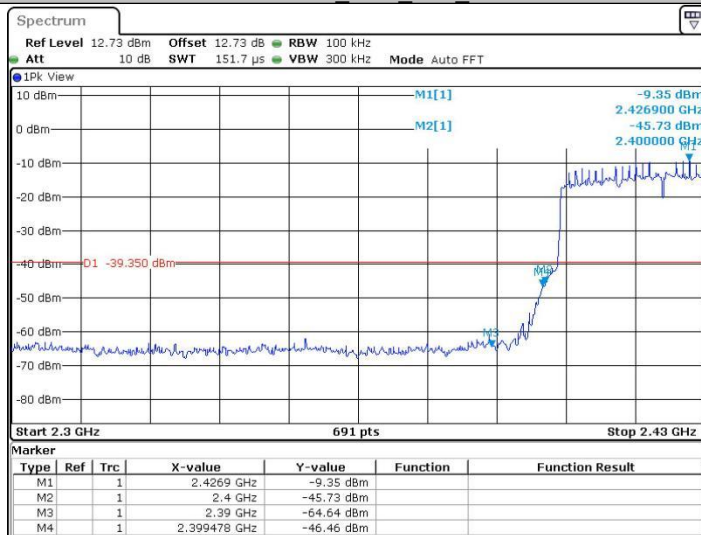
Date: 16 MAY 2024 09:47:32

11AX20SISO_Ant2_High_2462



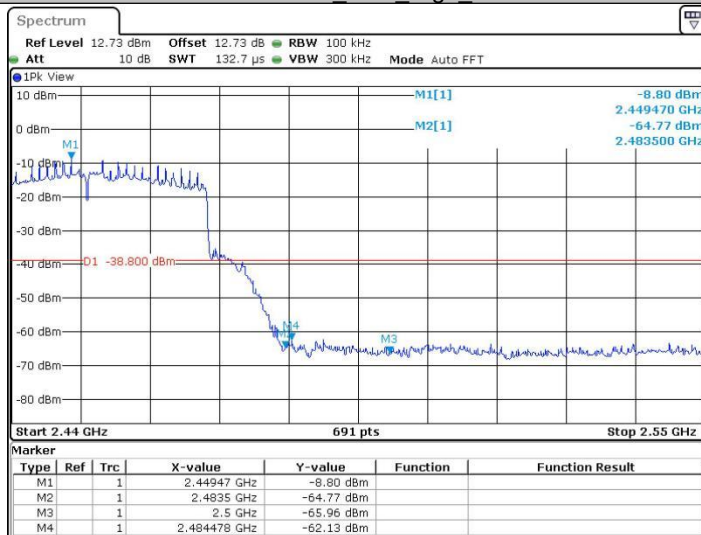
Date: 16 MAY 2024 10:10:43

11AX40SISO_Ant2_Low_2422



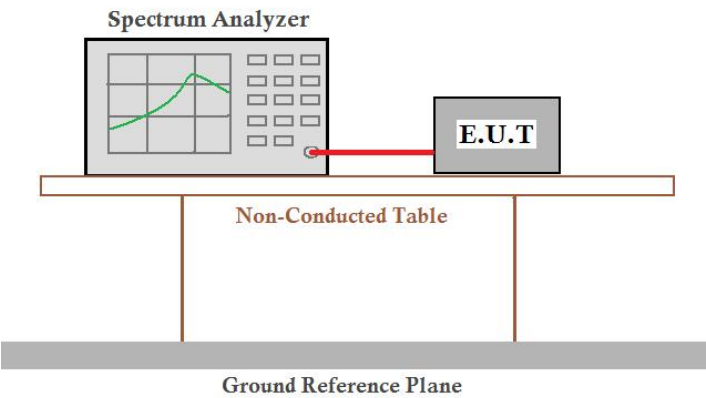
Date: 16 MAY 2024 10:11:50

11AX40SISO_Ant2_High_2452



Date: 16 MAY 2024 10:06:28

5.7 RF Conducted Spurious 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

Test Result

Ant1:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	-2.21	-2.21	---	PASS
		30~1000	-2.21	-54.16	≤ -32.21	PASS
		1000~26500	-2.21	-49.91	≤ -32.21	PASS
	2437	Reference	-2.95	-2.95	---	PASS
		30~1000	-2.95	-53.4	≤ -32.95	PASS
		1000~26500	-2.95	-50.06	≤ -32.95	PASS
	2462	Reference	-3.26	-3.26	---	PASS
		30~1000	-3.26	-54.22	≤ -33.26	PASS
		1000~26500	-3.26	-50.61	≤ -33.26	PASS
11G	2412	Reference	-3.79	-3.79	---	PASS
		30~1000	-3.79	-53.99	≤ -33.79	PASS
		1000~26500	-3.79	-50.27	≤ -33.79	PASS
	2437	Reference	-4.97	-4.97	---	PASS
		30~1000	-4.97	-53.06	≤ -34.97	PASS
		1000~26500	-4.97	-50.88	≤ -34.97	PASS
	2462	Reference	-4.98	-4.98	---	PASS
		30~1000	-4.98	-53.51	≤ -34.98	PASS
		1000~26500	-4.98	-50.26	≤ -34.98	PASS
11N20SISO	2412	Reference	-4.45	-4.45	---	PASS
		30~1000	-4.45	-53.59	≤ -34.45	PASS
		1000~26500	-4.45	-50.58	≤ -34.45	PASS
	2437	Reference	-5.56	-5.56	---	PASS
		30~1000	-5.56	-53.21	≤ -35.56	PASS
		1000~26500	-5.56	-50.42	≤ -35.56	PASS
	2462	Reference	-5.41	-5.41	---	PASS
		30~1000	-5.41	-54.36	≤ -35.41	PASS
		1000~26500	-5.41	-49.67	≤ -35.41	PASS
11N40SISO	2422	Reference	-9.25	-9.25	---	PASS
		30~1000	-9.25	-54.11	≤ -39.25	PASS
		1000~26500	-9.25	-50.62	≤ -39.25	PASS
	2437	Reference	-9.02	-9.02	---	PASS
		30~1000	-9.02	-54.55	≤ -39.02	PASS
		1000~26500	-9.02	-50.97	≤ -39.02	PASS

	2452	Reference	-9.11	-9.11	---	PASS
		30~1000	-9.11	-53.84	≤ -39.11	PASS
		1000~26500	-9.11	-50.99	≤ -39.11	PASS
11AX20SISO	2412	Reference	-5.34	-5.34	---	PASS
		30~1000	-5.34	-53.19	≤ -35.34	PASS
		1000~26500	-5.34	-50.17	≤ -35.34	PASS
	2437	Reference	-6.48	-6.48	---	PASS
		30~1000	-6.48	-53.62	≤ -36.48	PASS
		1000~26500	-6.48	-50.52	≤ -36.48	PASS
	2462	Reference	-6.54	-6.54	---	PASS
		30~1000	-6.54	-54.07	≤ -36.54	PASS
		1000~26500	-6.54	-50.48	≤ -36.54	PASS
11AX40SISO	2422	Reference	-9.40	-9.40	---	PASS
		30~1000	-9.40	-52.87	≤ -39.4	PASS
		1000~26500	-9.40	-50.03	≤ -39.4	PASS
	2437	Reference	-9.05	-9.05	---	PASS
		30~1000	-9.05	-54.19	≤ -39.05	PASS
		1000~26500	-9.05	-50.58	≤ -39.05	PASS
	2452	Reference	-9.26	-9.26	---	PASS
		30~1000	-9.26	-52.97	≤ -39.26	PASS
		1000~26500	-9.26	-50.21	≤ -39.26	PASS

Ant2:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	-0.42	-0.42	---	PASS
		30~1000	-0.42	-53.93	≤-30.42	PASS
		1000~26500	-0.42	-50.2	≤-30.42	PASS
	2437	Reference	-1.52	-1.52	---	PASS
		30~1000	-1.52	-54.22	≤-31.52	PASS
		1000~26500	-1.52	-49.76	≤-31.52	PASS
	2462	Reference	-1.78	-1.78	---	PASS
		30~1000	-1.78	-53.43	≤-31.78	PASS
		1000~26500	-1.78	-50.31	≤-31.78	PASS
11G	2412	Reference	-3.44	-3.44	---	PASS
		30~1000	-3.44	-53.95	≤-33.44	PASS
		1000~26500	-3.44	-50.01	≤-33.44	PASS
	2437	Reference	-4.72	-4.72	---	PASS
		30~1000	-4.72	-54.2	≤-34.72	PASS
		1000~26500	-4.72	-50.05	≤-34.72	PASS
	2462	Reference	-4.71	-4.71	---	PASS
		30~1000	-4.71	-52.41	≤-34.71	PASS
		1000~26500	-4.71	-49.98	≤-34.71	PASS
11N20SISO	2412	Reference	-3.72	-3.72	---	PASS
		30~1000	-3.72	-53.3	≤-33.72	PASS
		1000~26500	-3.72	-50.05	≤-33.72	PASS
	2437	Reference	-4.79	-4.79	---	PASS
		30~1000	-4.79	-52.3	≤-34.79	PASS
		1000~26500	-4.79	-50.5	≤-34.79	PASS
	2462	Reference	-4.60	-4.60	---	PASS
		30~1000	-4.60	-53.58	≤-34.6	PASS
		1000~26500	-4.60	-50.02	≤-34.6	PASS
11N40SISO	2422	Reference	-8.99	-8.99	---	PASS
		30~1000	-8.99	-53.32	≤-38.99	PASS
		1000~26500	-8.99	-50.9	≤-38.99	PASS
	2437	Reference	-8.86	-8.86	---	PASS
		30~1000	-8.86	-53.05	≤-38.86	PASS
		1000~26500	-8.86	-50.25	≤-38.86	PASS
	2452	Reference	-8.83	-8.83	---	PASS

		30~1000	-8.83	-52.73	≤ -38.83	PASS
		1000~26500	-8.83	-50.11	≤ -38.83	PASS
11AX20SISO	2412	Reference	-4.57	-4.57	---	PASS
		30~1000	-4.57	-52.45	≤ -34.57	PASS
		1000~26500	-4.57	-50.64	≤ -34.57	PASS
	2437	Reference	-5.67	-5.67	---	PASS
		30~1000	-5.67	-54.07	≤ -35.67	PASS
		1000~26500	-5.67	-50.71	≤ -35.67	PASS
	2462	Reference	-6.18	-6.18	---	PASS
		30~1000	-6.18	-53.41	≤ -36.18	PASS
		1000~26500	-6.18	-50.23	≤ -36.18	PASS
11AX40SISO	2422	Reference	-9.34	-9.34	---	PASS
		30~1000	-9.34	-52.93	≤ -39.34	PASS
		1000~26500	-9.34	-49.22	≤ -39.34	PASS
	2437	Reference	-9.14	-9.14	---	PASS
		30~1000	-9.14	-53.57	≤ -39.14	PASS
		1000~26500	-9.14	-49.99	≤ -39.14	PASS
	2452	Reference	-8.60	-8.60	---	PASS
		30~1000	-8.60	-54.32	≤ -38.6	PASS
		1000~26500	-8.60	-50.55	≤ -38.6	PASS

Ant2:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	-0.42	-0.42	---	PASS
		30~1000	-0.42	-53.93	≤-30.42	PASS
		1000~26500	-0.42	-50.2	≤-30.42	PASS
	2437	Reference	-1.52	-1.52	---	PASS
		30~1000	-1.52	-54.22	≤-31.52	PASS
		1000~26500	-1.52	-49.76	≤-31.52	PASS
	2462	Reference	-1.78	-1.78	---	PASS
		30~1000	-1.78	-53.43	≤-31.78	PASS
		1000~26500	-1.78	-50.31	≤-31.78	PASS
11G	2412	Reference	-3.44	-3.44	---	PASS
		30~1000	-3.44	-53.95	≤-33.44	PASS
		1000~26500	-3.44	-50.01	≤-33.44	PASS
	2437	Reference	-4.72	-4.72	---	PASS
		30~1000	-4.72	-54.2	≤-34.72	PASS
		1000~26500	-4.72	-50.05	≤-34.72	PASS
	2462	Reference	-4.71	-4.71	---	PASS
		30~1000	-4.71	-52.41	≤-34.71	PASS
		1000~26500	-4.71	-49.98	≤-34.71	PASS
11N20SISO	2412	Reference	-3.72	-3.72	---	PASS
		30~1000	-3.72	-53.3	≤-33.72	PASS
		1000~26500	-3.72	-50.05	≤-33.72	PASS
	2437	Reference	-4.79	-4.79	---	PASS
		30~1000	-4.79	-52.3	≤-34.79	PASS
		1000~26500	-4.79	-50.5	≤-34.79	PASS
	2462	Reference	-4.60	-4.60	---	PASS
		30~1000	-4.60	-53.58	≤-34.6	PASS
		1000~26500	-4.60	-50.02	≤-34.6	PASS
11N40SISO	2422	Reference	-8.99	-8.99	---	PASS
		30~1000	-8.99	-53.32	≤-38.99	PASS
		1000~26500	-8.99	-50.9	≤-38.99	PASS
	2437	Reference	-8.86	-8.86	---	PASS
		30~1000	-8.86	-53.05	≤-38.86	PASS
		1000~26500	-8.86	-50.25	≤-38.86	PASS
	2452	Reference	-8.83	-8.83	---	PASS