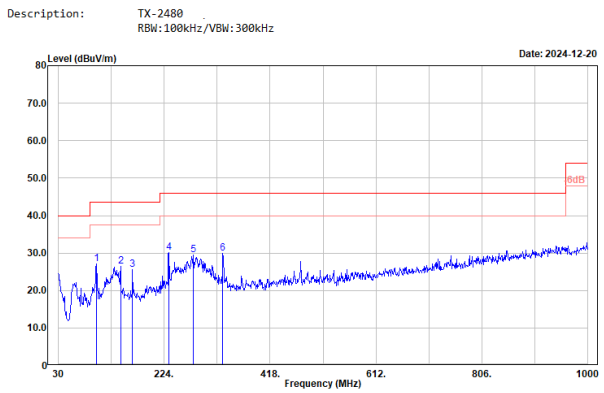
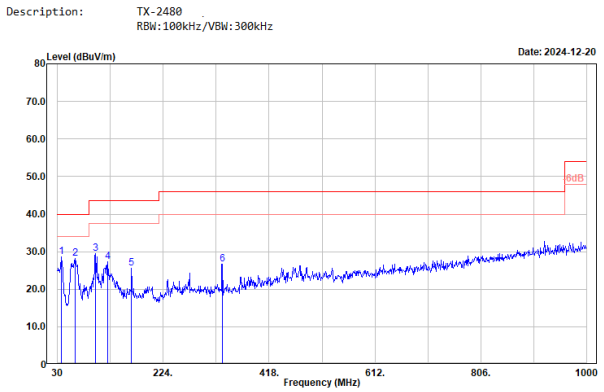
High channel

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
99.840	40.36	-13.16	27.20	43.50	-16.30	100	69	QP
144.460	36.28	-9.84	26.44	43.50	-17.06	100	92	QP
165.800	36.20	-10.70	25.50	43.50	-18.00	100	2	QP
232.730	41.51	-11.37	30.14	46.00	-15.86	100	165	QP
277.350	38.58	-9.16	29.42	46.00	-16.58	100	135	QP
331.670	38.22	-8.23	29.99	46.00	-16.01	100	354	QP

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
36.790	36.19	-7.56	28.63	40.00	-11.37	100	237	QP
62.980	43.86	-15.60	28.26	40.00	-11.74	100	133	QP
99.840	42.58	-13.16	29.42	43.50	-14.08	100	47	QP
122.150	36.63	-9.27	27.36	43.50	-16.14	100	0	QP
165.800	36.36	-10.70	25.66	43.50	-17.84	100	141	QP
332.640	34.86	-8.21	26.65	46.00	-19.35	100	156	QP

Level = Reading + Factor.

Margin = Level – Limit.

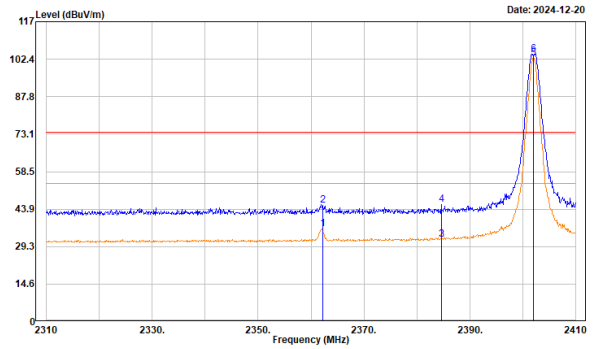
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Band-Edge:

Low channel

Horizontal

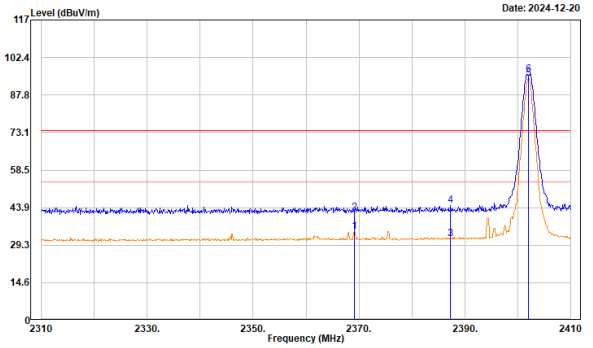
Description: BLE_1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2362.200	47.39	-11.31	36.08	54.00	-17.92	160	266	Average
2362.200	56.56	-11.31	45.25	74.00	-28.75	160	266	Peak
2384.600	43.19	-11.13	32.06	54.00	-21.94	160	266	Average
2384.600	56.90	-11.13	45.77	74.00	-28.23	160	266	Peak
2402.000	113.84	-11.02	102.82			160	266	Average
2402.000	115.44	-11.02	104.42			160	266	Peak

Vertical

Description: BLE_1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz

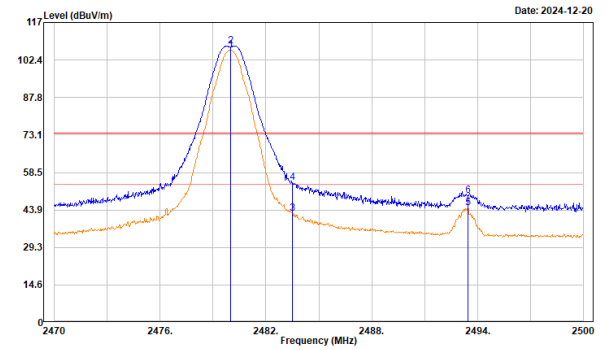


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2369.100	45.87	-11.26	34.61	54.00	-19.39	384	97	Average
2369.100	53.22	-11.26	41.96	74.00	-32.04	384	97	Peak
2387.300	42.94	-11.12	31.82	54.00	-22.18	384	97	Average
2387.300	55.95	-11.12	44.83	74.00	-29.17	384	97	Peak
2402.000	105.25	-11.02	94.23			384	97	Average
2402.000	106.84	-11.02	95.82			384	97	Peak

High channel

Horizontal

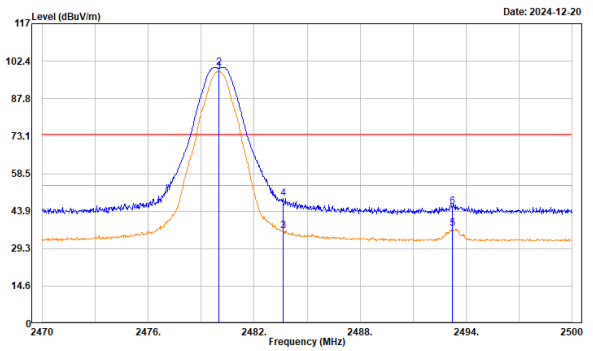
Description: BLE_1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	116.85	-10.66	106.19			120	257	Average
2480.000	118.46	-10.66	107.80			120	257	Peak
2483.500	53.23	-10.61	42.62	54.00	-11.38	120	257	Average
2483.500	65.28	-10.61	54.67	74.00	-19.33	120	257	Peak
2493.460	55.09	-10.50	44.59	54.00	-9.41	120	257	Average
2493.460	59.88	-10.50	49.38	74.00	-24.62	120	257	Peak

Vertical

Description: BLE_1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	109.03	-10.66	98.37			218	96	Average
2480.000	110.67	-10.66	100.01			218	96	Peak
2483.620	46.61	-10.61	36.00	54.00	-18.00	218	96	Average
2483.620	59.58	-10.61	48.97	74.00	-25.03	218	96	Peak
2493.220	47.61	-10.50	37.11	54.00	-16.89	218	96	Average
2493.220	56.07	-10.50	45.57	74.00	-28.43	218	96	Peak

Level = Reading + Factor.

Margin = Level – Limit.

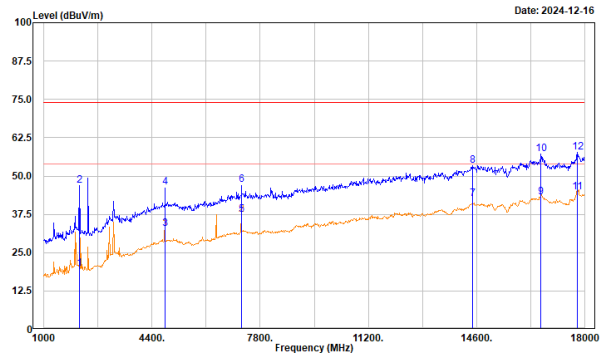
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

1GHz-18GHz:

Low channel

Horizontal

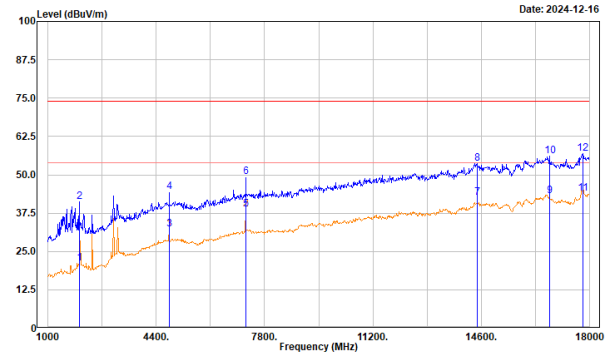
Description: BLE_1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2122.000	32.17	-12.36	19.81	54.00	-34.19	150	309	Average
2122.000	59.17	-12.36	46.81	74.00	-27.19	150	309	Peak
4804.000	36.81	-4.09	32.72	54.00	-21.28	385	339	Average
4804.000	50.46	-4.09	46.37	74.00	-27.63	385	339	Peak
7206.000	36.91	0.43	37.34	54.00	-16.66	376	200	Average
7206.000	46.63	0.43	47.06	74.00	-26.94	376	200	Peak
14481.000	31.11	11.41	42.52	54.00	-11.48	150	261	Average
14481.000	42.11	11.41	53.52	74.00	-20.48	150	261	Peak
16623.000	31.03	12.07	43.10	54.00	-10.90	150	77	Average
16623.000	45.03	12.07	57.10	74.00	-16.90	150	77	Peak
17762.000	31.78	12.83	44.61	54.00	-9.39	150	92	Average
17762.000	44.78	12.83	57.61	74.00	-16.39	150	92	Peak

Vertical

Description: BLE_1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz

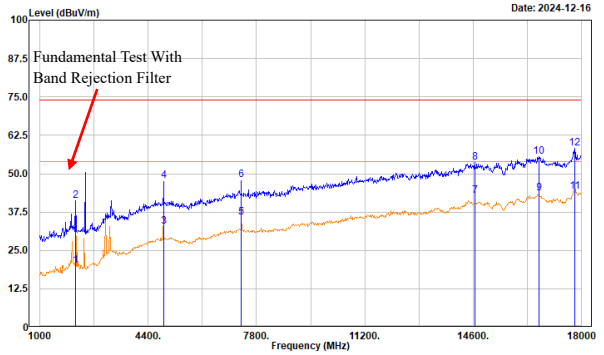


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1986.000	32.90	-11.84	21.06	54.00	-32.94	150	43	Average
1986.000	52.90	-11.84	41.06	74.00	-32.94	150	43	Peak
4804.000	36.26	-4.09	32.17	54.00	-21.83	147	211	Average
4804.000	48.52	-4.09	44.43	74.00	-29.57	147	211	Peak
7206.000	38.42	0.43	38.85	54.00	-15.15	137	54	Average
7206.000	49.02	0.43	49.45	74.00	-24.55	137	54	Peak
14464.000	31.29	11.36	42.65	54.00	-11.35	150	4	Average
14464.000	42.29	11.36	53.65	74.00	-20.35	150	4	Peak
16742.000	31.45	11.76	43.21	54.00	-10.79	150	267	Average
16742.000	44.45	11.76	56.21	74.00	-17.79	150	267	Peak
17779.000	31.15	12.85	44.00	54.00	-10.00	150	181	Average
17779.000	44.15	12.85	57.00	74.00	-17.00	150	181	Peak

Middle channel

Horizontal

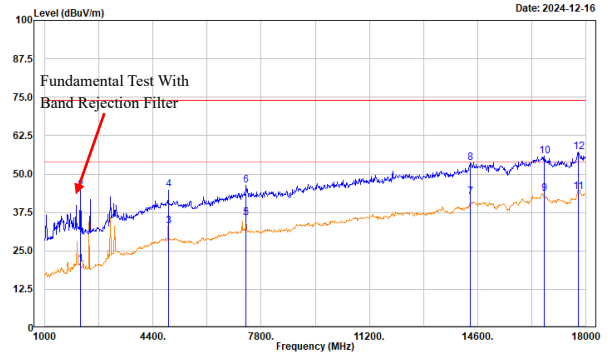
Description: BLE_1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2122.000	32.46	-12.36	20.10	54.00	-33.90	150	111	Average
2122.000	53.46	-12.36	41.10	74.00	-32.90	150	111	Peak
4880.000	36.33	-3.54	32.79	54.00	-21.21	380	340	Average
4880.000	51.33	-3.54	47.79	74.00	-26.21	380	340	Peak
7320.000	35.33	0.53	35.86	54.00	-18.14	340	14	Average
7320.000	47.45	0.53	47.98	74.00	-26.02	340	14	Peak
14651.000	31.31	11.40	42.71	54.00	-11.29	150	180	Average
14651.000	42.31	11.40	53.71	74.00	-20.29	150	180	Peak
16657.000	31.69	11.99	43.68	54.00	-10.32	150	0	Average
16657.000	43.69	11.99	55.68	74.00	-18.32	150	0	Peak
17779.000	31.39	12.85	44.24	54.00	-9.76	150	192	Average
17779.000	45.39	12.85	58.24	74.00	-15.76	150	192	Peak

Vertical

Description: BLE_1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz

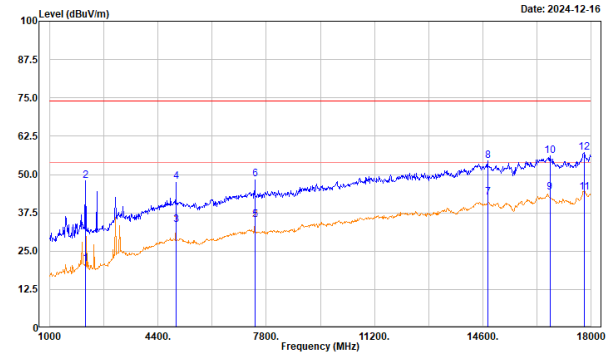


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2122.000	33.00	-12.36	20.64	54.00	-33.36	150	178	Average
2122.000	57.00	-12.36	44.64	74.00	-29.36	150	178	Peak
4880.000	36.68	-3.54	33.14	54.00	-20.86	149	94	Average
4880.000	48.41	-3.54	44.87	74.00	-29.13	149	94	Peak
7320.000	35.23	0.53	35.76	54.00	-18.24	130	50	Average
7320.000	45.77	0.53	46.30	74.00	-27.70	130	50	Peak
14379.000	31.54	11.11	42.65	54.00	-11.35	150	197	Average
14379.000	42.54	11.11	53.65	74.00	-20.35	150	197	Peak
16691.000	31.80	11.90	43.70	54.00	-10.30	150	293	Average
16691.000	43.80	11.90	55.70	74.00	-18.30	150	293	Peak
17762.000	31.22	12.83	44.05	54.00	-9.95	150	6	Average
17762.000	44.22	12.83	57.05	74.00	-16.95	150	6	Peak

High channel

Horizontal

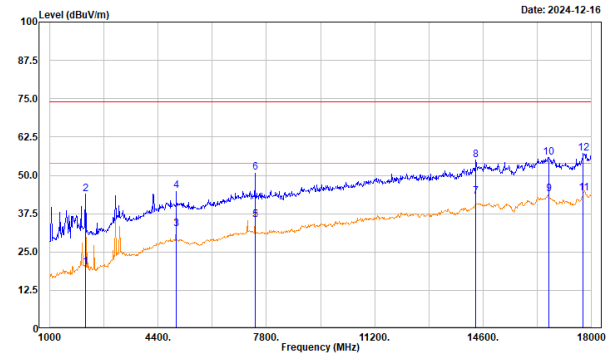
Description: BLE_1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2122.000	33.32	-12.36	20.96	54.00	-33.04	150	159	Average
2122.000	60.32	-12.36	47.96	74.00	-26.04	150	159	Peak
4960.000	37.29	-3.67	33.62	54.00	-20.38	350	348	Average
4960.000	51.35	-3.67	47.68	74.00	-26.32	350	348	Peak
7440.000	34.91	0.28	35.19	54.00	-18.81	157	19	Average
7440.000	48.20	0.28	48.48	74.00	-25.52	157	19	Peak
14753.000	31.17	11.29	42.46	54.00	-11.54	150	44	Average
14753.000	43.17	11.29	54.46	74.00	-19.54	150	44	Peak
16708.000	32.34	11.85	44.19	54.00	-9.81	150	129	Average
16708.000	44.34	11.85	56.19	74.00	-17.81	150	129	Peak
17779.000	31.23	12.85	44.08	54.00	-9.92	150	121	Average
17779.000	44.23	12.85	57.08	74.00	-16.92	150	121	Peak

Vertical

Description: BLE_1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



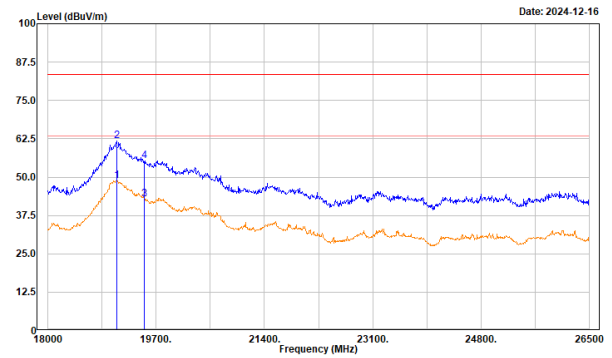
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2122.000	32.34	-12.36	19.98	54.00	-34.02	150	179	Average
2122.000	56.34	-12.36	43.98	74.00	-30.02	150	179	Peak
4960.000	36.18	-3.67	32.51	54.00	-21.49	150	91	Average
4960.000	48.74	-3.67	45.07	74.00	-28.93	150	91	Peak
7440.000	35.09	0.28	35.37	54.00	-18.63	140	52	Average
7440.000	50.64	0.28	50.92	74.00	-23.08	140	52	Peak
14379.000	31.85	11.11	42.96	54.00	-11.04	150	179	Average
14379.000	43.85	11.11	54.96	74.00	-19.04	150	179	Peak
16657.000	31.89	11.99	43.88	54.00	-10.12	150	217	Average
16657.000	43.89	11.99	55.88	74.00	-18.12	150	217	Peak
17745.000	31.43	12.78	44.21	54.00	-9.79	150	90	Average
17745.000	44.43	12.78	57.21	74.00	-16.79	150	90	Peak

18GHz-26.5GHz:

(Worst case is middle channel)

Horizontal

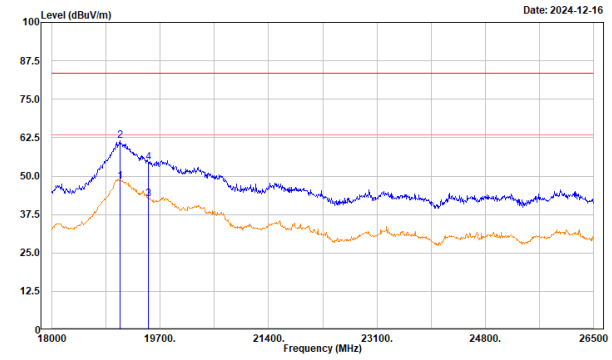
Description: BLE_1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19079.500	30.88	17.85	48.73	63.50	-14.77	150	345	Average
19079.500	43.91	17.85	61.76	83.50	-21.74	150	345	Peak
19520.000	29.69	13.09	42.78	63.50	-20.72	150	330	Average
19520.000	42.18	13.09	55.27	83.50	-28.23	150	330	Peak

Vertical

Description: BLE_1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19071.000	30.36	17.92	48.28	63.50	-15.22	150	198	Average
19071.000	43.62	17.92	61.54	83.50	-21.96	150	198	Peak
19520.000	29.56	13.09	42.65	63.50	-20.85	150	90	Average
19520.000	41.35	13.09	54.44	83.50	-29.06	150	90	Peak

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

For 18-26.5GHz Convert the test distance limit of 3 meters to a limit of 1.5 meter:

Conversion factor = 20 log (1.5m/3m) = 6.02 dB,

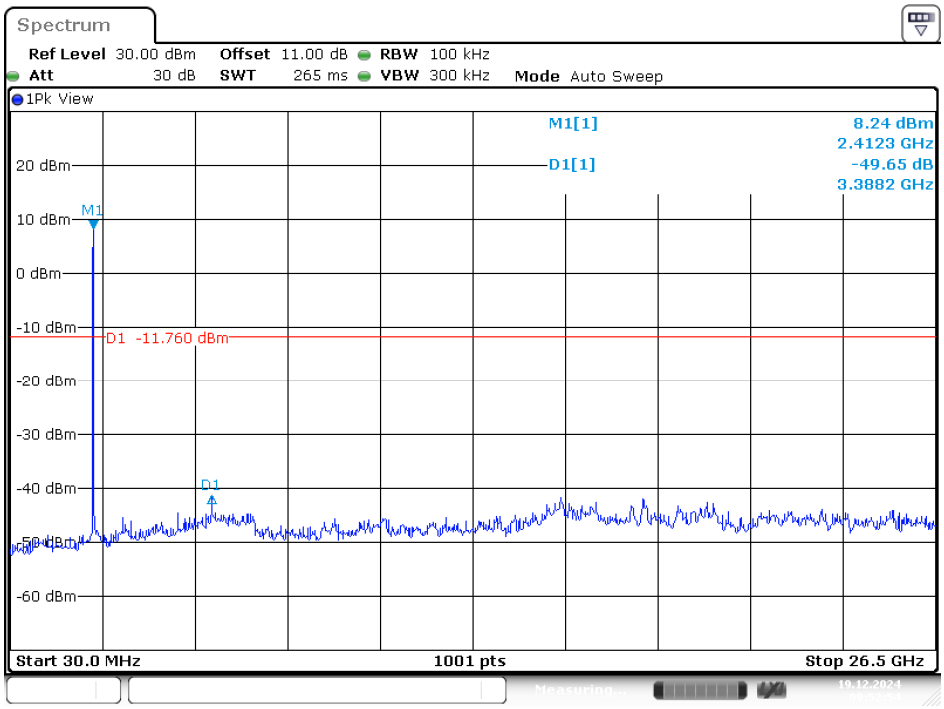
Average Limit = 54+6.02 = 60.02 dBuV/m@1m , Peak Limit = 60.02+20 = 80.02 dBuV/m@1m

Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
B Mode				
Low	2412	49.65	≥ 20	PASS
Mid	2437	50.38	≥ 20	PASS
High	2462	48.94	≥ 20	PASS
G Mode				
Low	2412	45.10	≥ 20	PASS
Mid	2437	43.41	≥ 20	PASS
High	2462	43.12	≥ 20	PASS
N20 Mode				
Low	2412	45.16	≥ 20	PASS
Mid	2437	39.94	≥ 20	PASS
High	2462	43.02	≥ 20	PASS
BLE(1M) Mode				
Low	2402	43.70	≥ 20	PASS
Mid	2440	45.52	≥ 20	PASS
High	2480	45.42	≥ 20	PASS

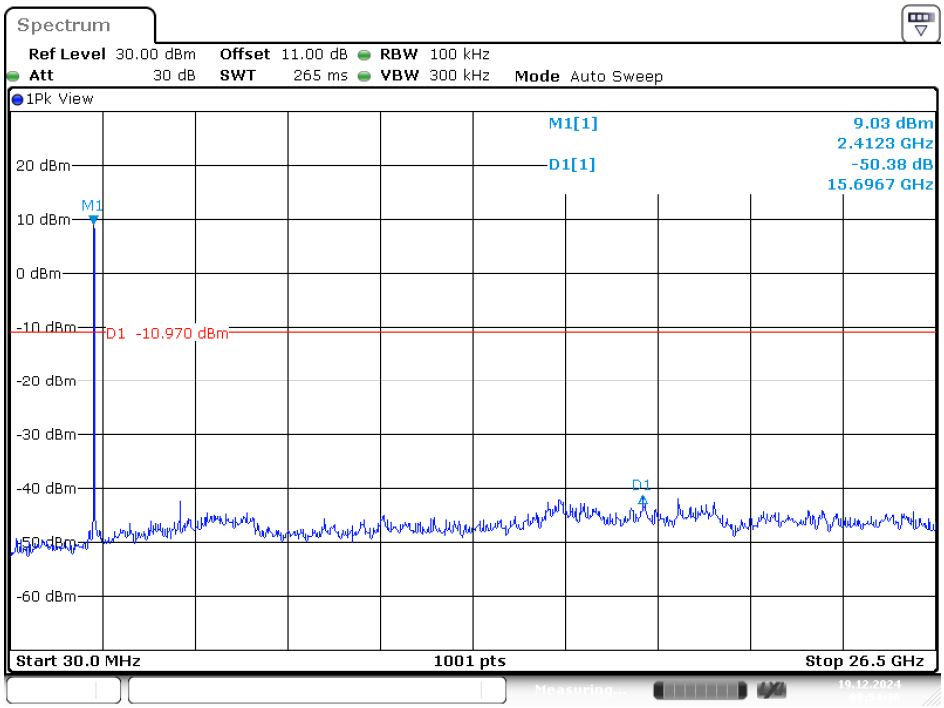
B Mode

Low Channel



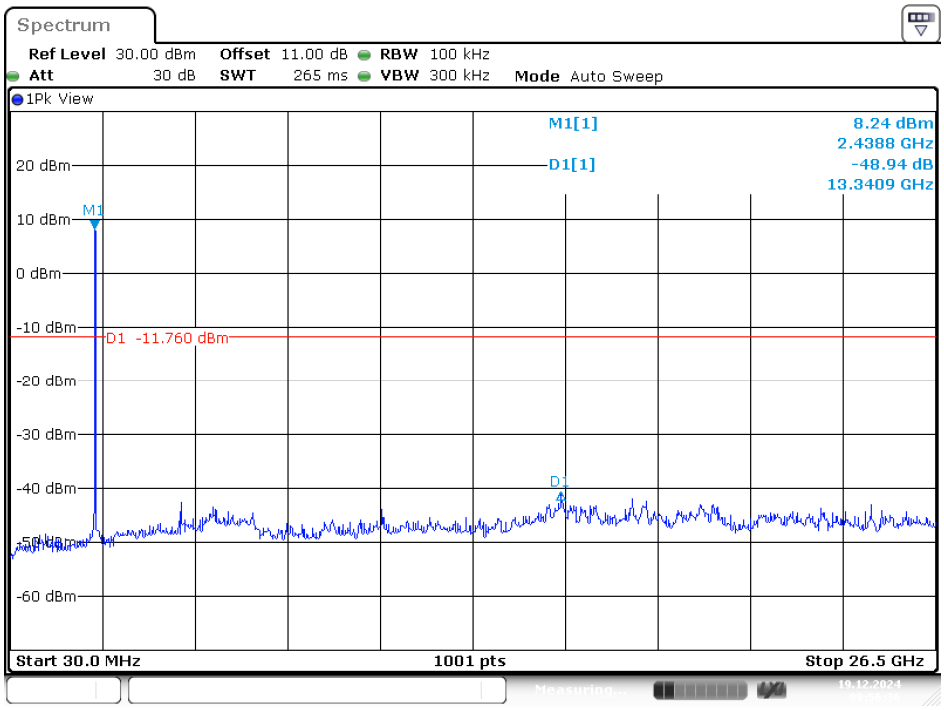
Date: 19.DEC.2024 09:52:54

Middle Channel



Date: 19.DEC.2024 09:54:36

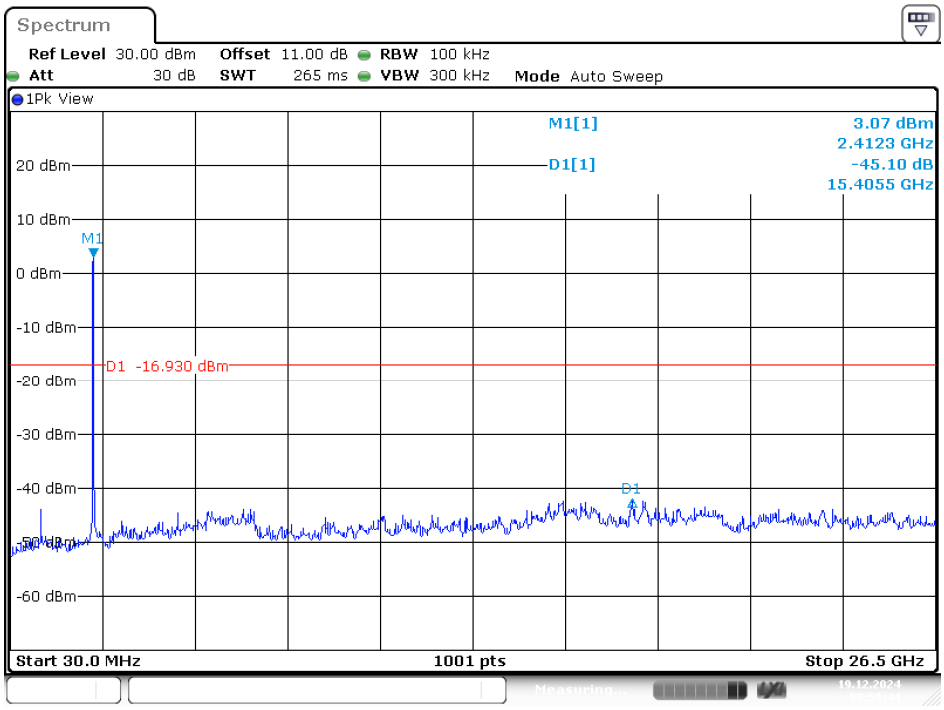
High Channel



Date: 19.DEC.2024 09:56:36

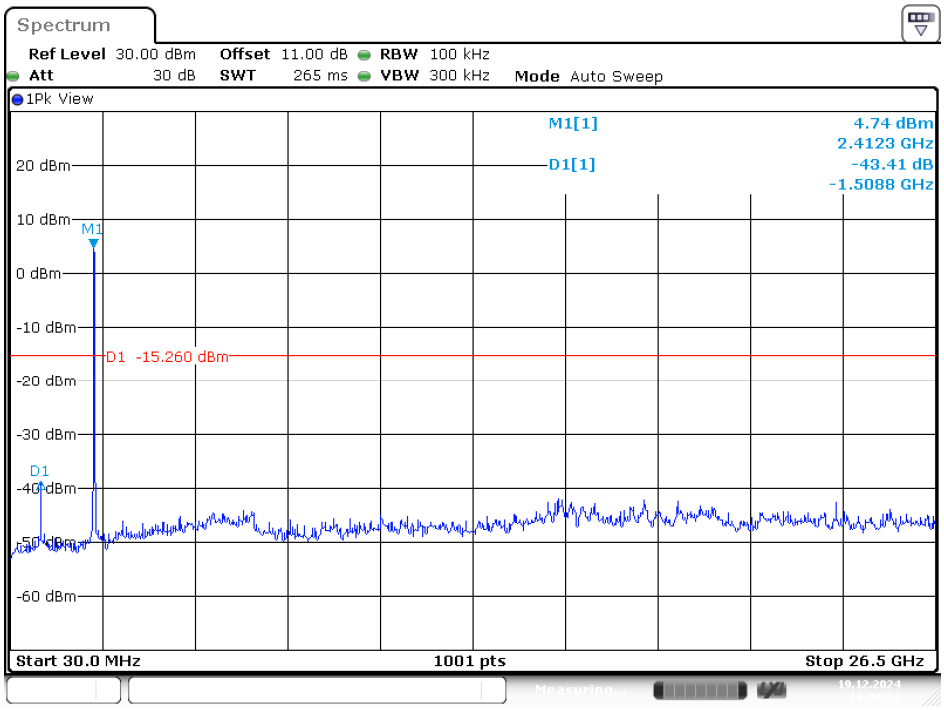
G Mode

Low Channel



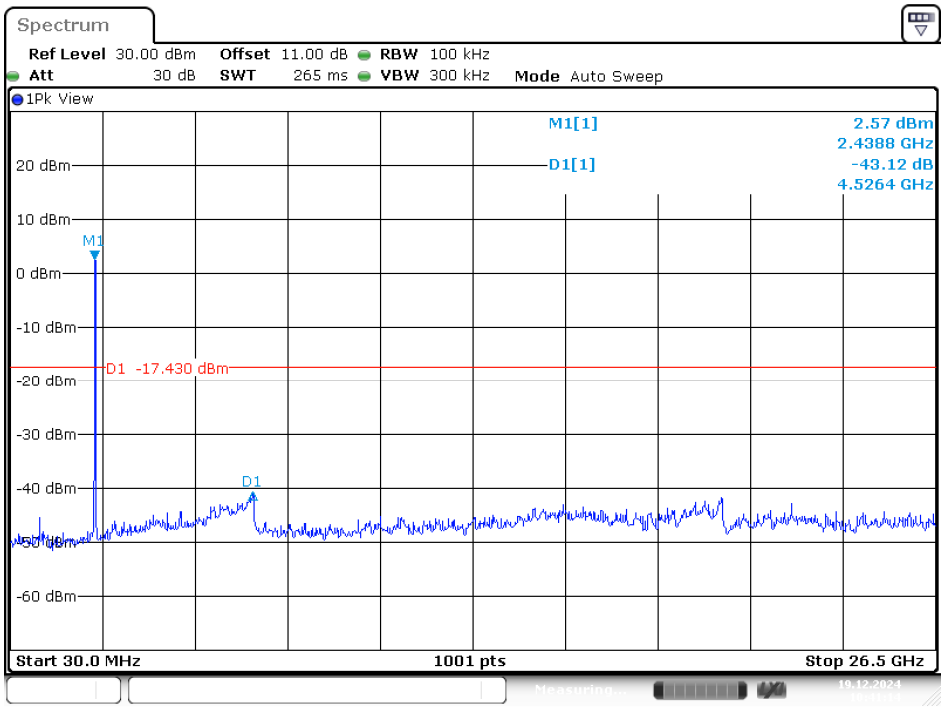
Date: 19.DEC.2024 09:58:44

Middle Channel



Date: 19.DEC.2024 10:00:21

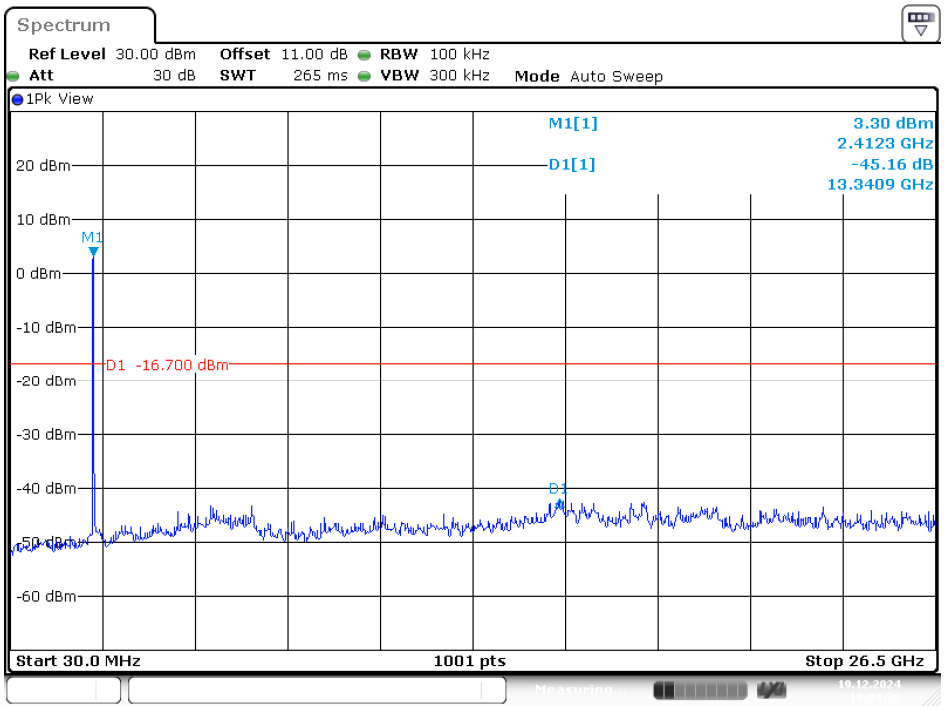
High Channel



Date: 19.DEC.2024 10:41:14

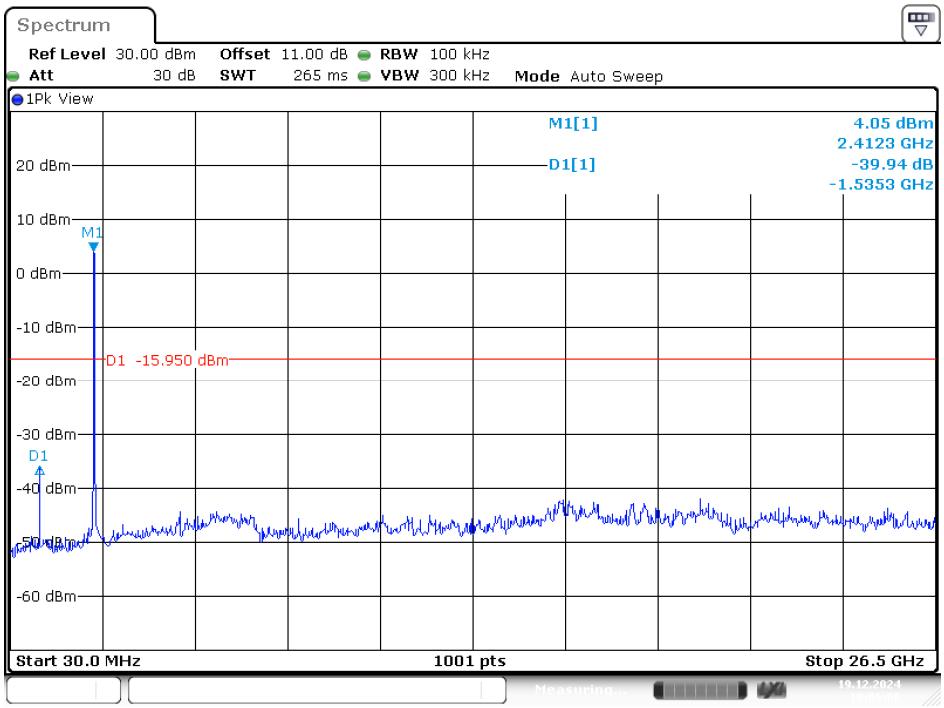
N20 Mode

Low Channel



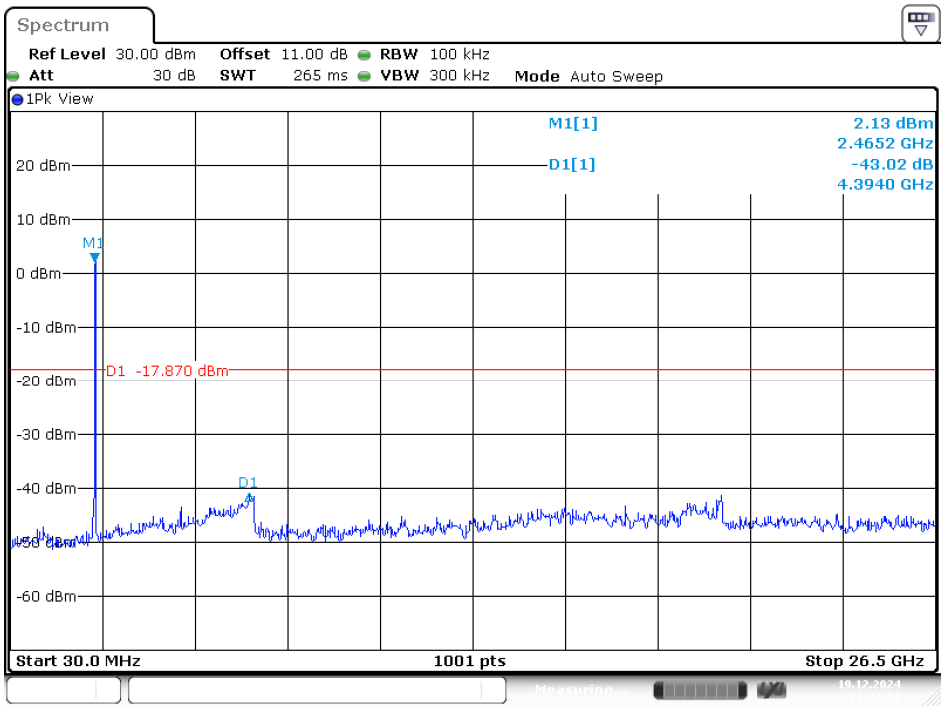
Date: 19.DEC.2024 10:04:28

Middle Channel



Date: 19.DEC.2024 10:06:06

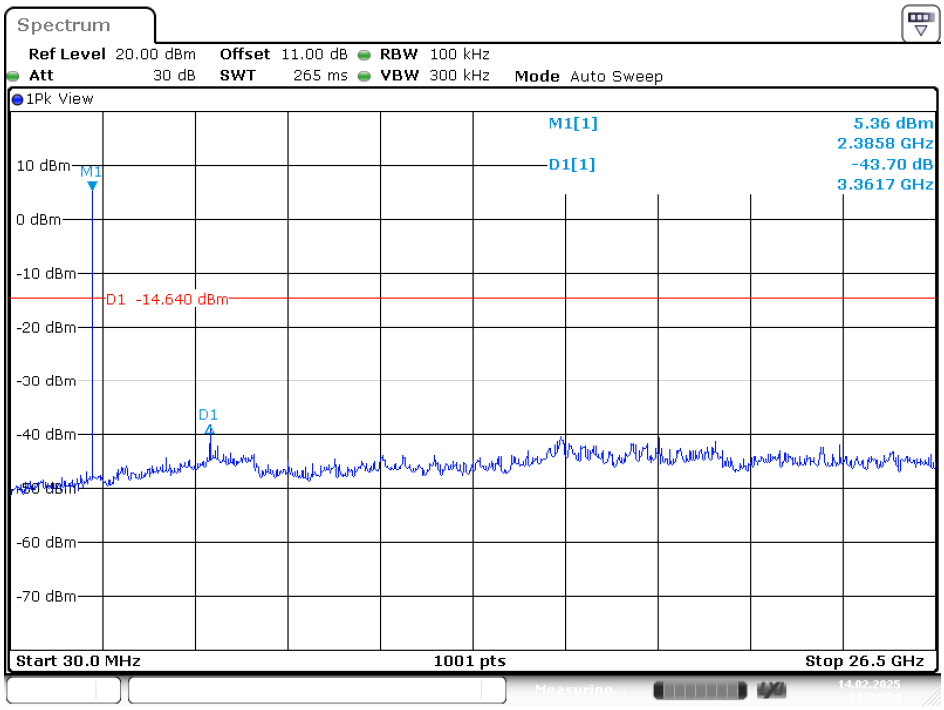
High Channel



Date: 19.DEC.2024 11:12:14

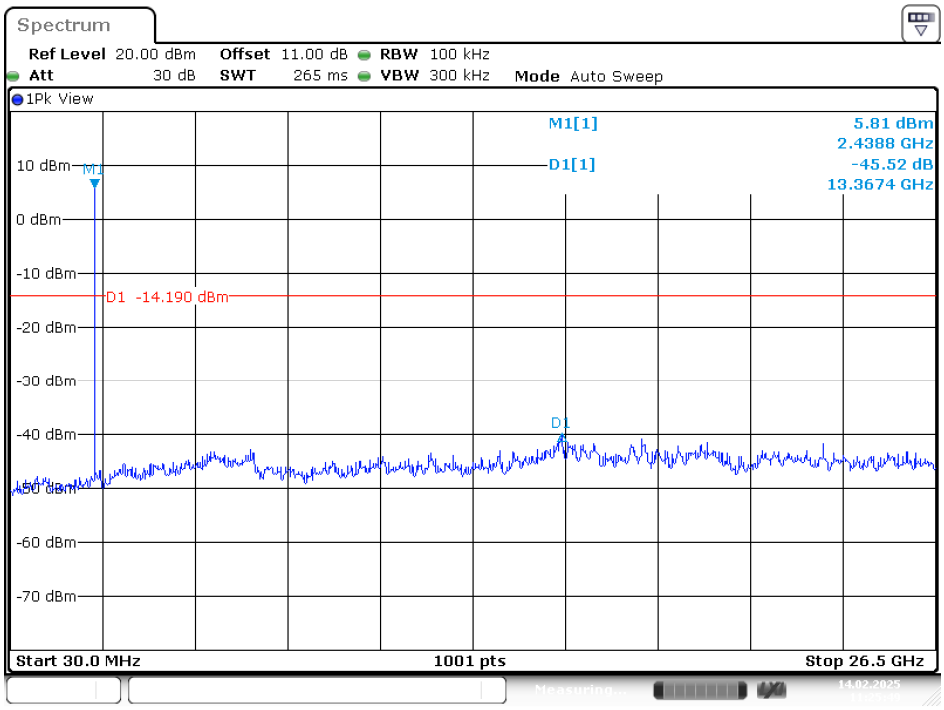
BLE(1M) Mode

Low Channel



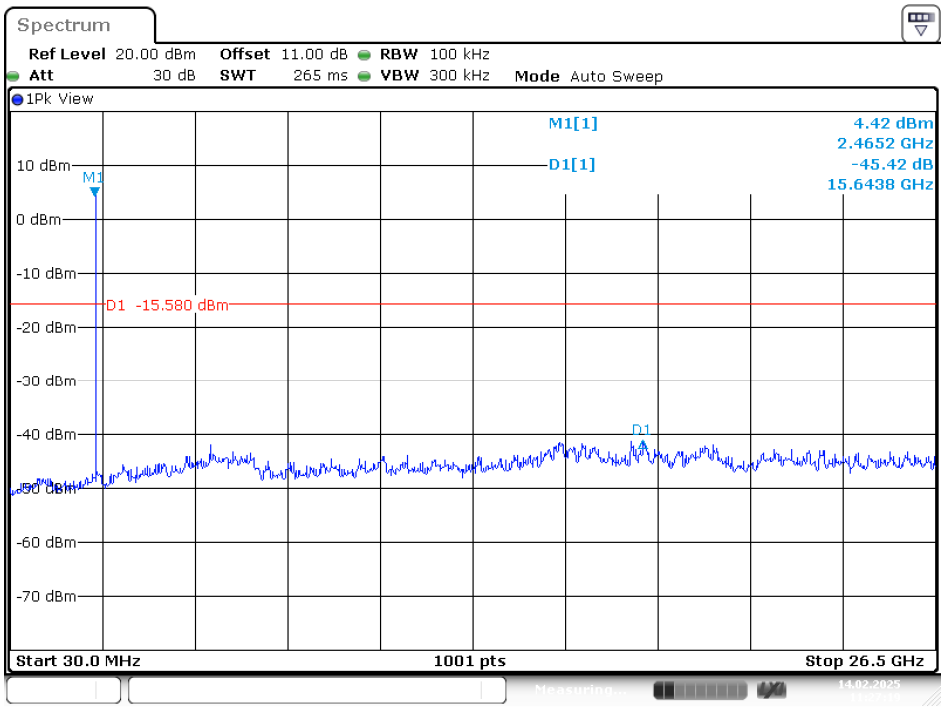
Date: 14.FEB.2025 11:24:34

Middle Channel



Date: 14.FEB.2025 11:25:49

High Channel



Date: 14.FEB.2025 11:27:20

9 FCC §15.247(a)(2) – 6 dB Emission Bandwidth

9.1 Applicable Standard

According to FCC §15.247(a)(2).

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Test Procedure

According to ANSI C63.10-2013, section 11.8

The steps for the first option are as follows:

a) Set RBW = 100 kHz.
b) Set the VBW ≥ [3 × RBW].
c) Detector = peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

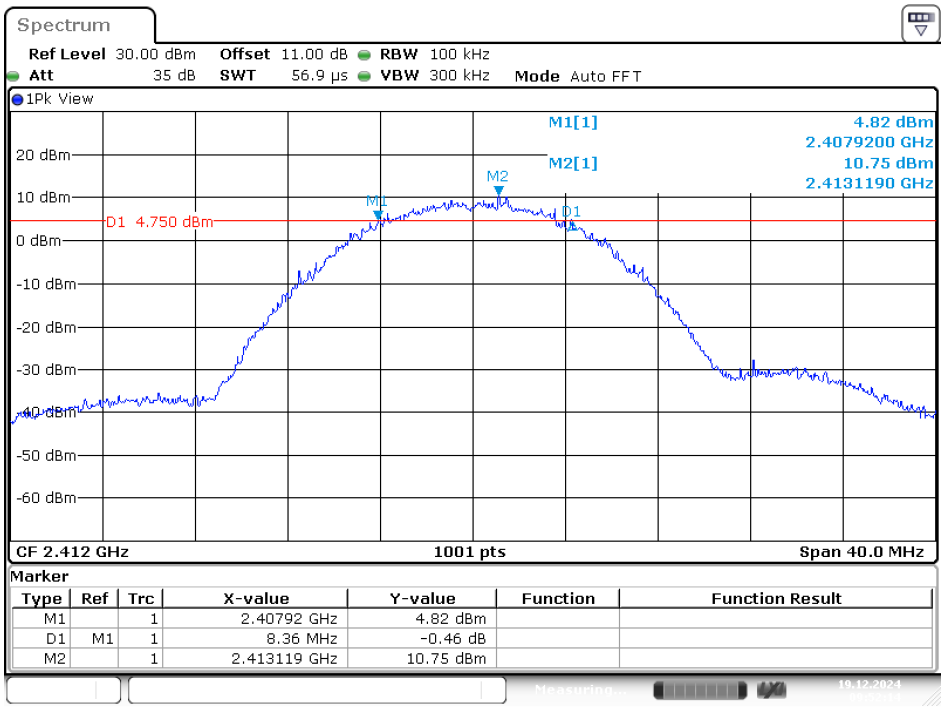
9.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result
B Mode				
Low	2412	8.36	> 500	PASS
Middle	2437	8.32	> 500	PASS
High	2462	8.32	> 500	PASS
G Mode				
Low	2412	16.52	> 500	PASS
Middle	2437	16.56	> 500	PASS
High	2462	16.56	> 500	PASS
N20 Mode				
Low	2412	17.84	> 500	PASS
Middle	2437	17.80	> 500	PASS
High	2462	17.76	> 500	PASS
BLE(1M) Mode				
Low	2402	0.86	> 500	PASS
Middle	2440	0.82	> 500	PASS
High	2480	0.82	> 500	PASS

Please refer to the following plots

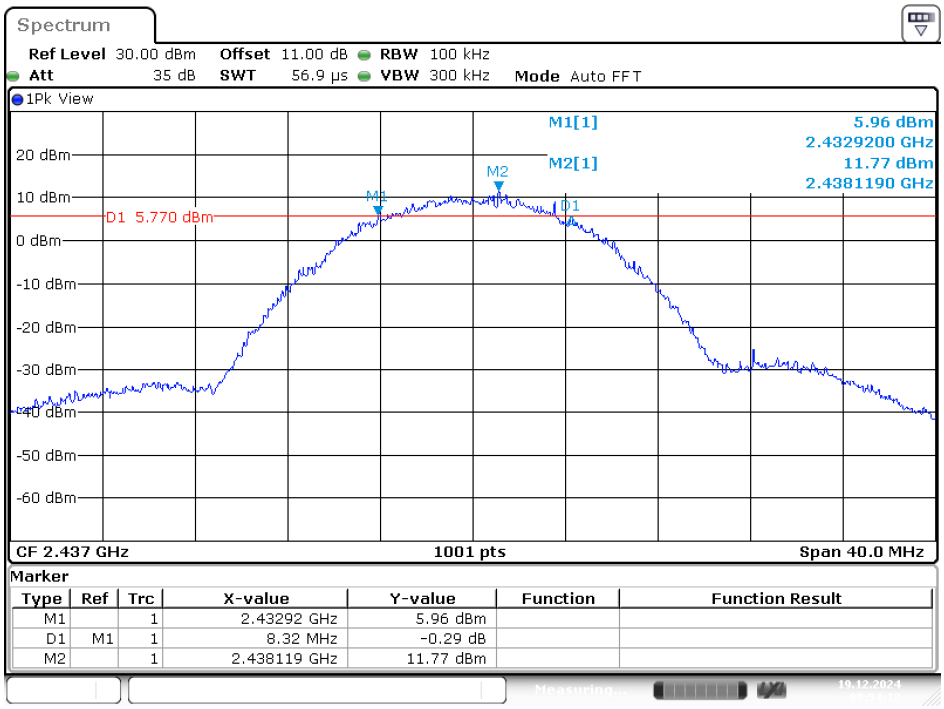
B Mode

Low Channel



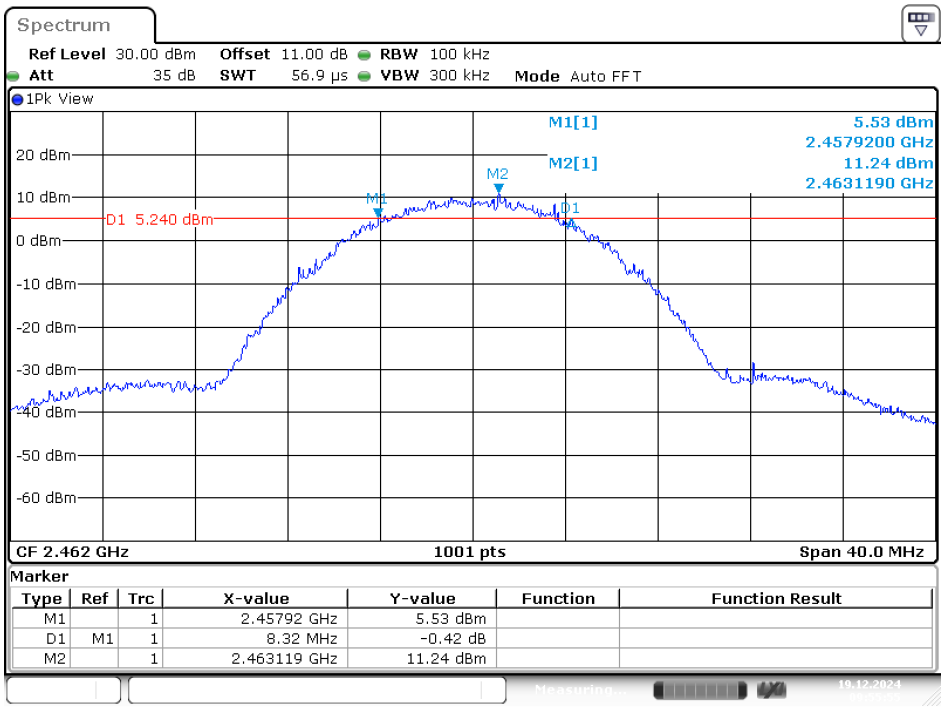
Date: 19.DEC.2024 09:52:14

Middle Channel



Date: 19.DEC.2024 09:54:12

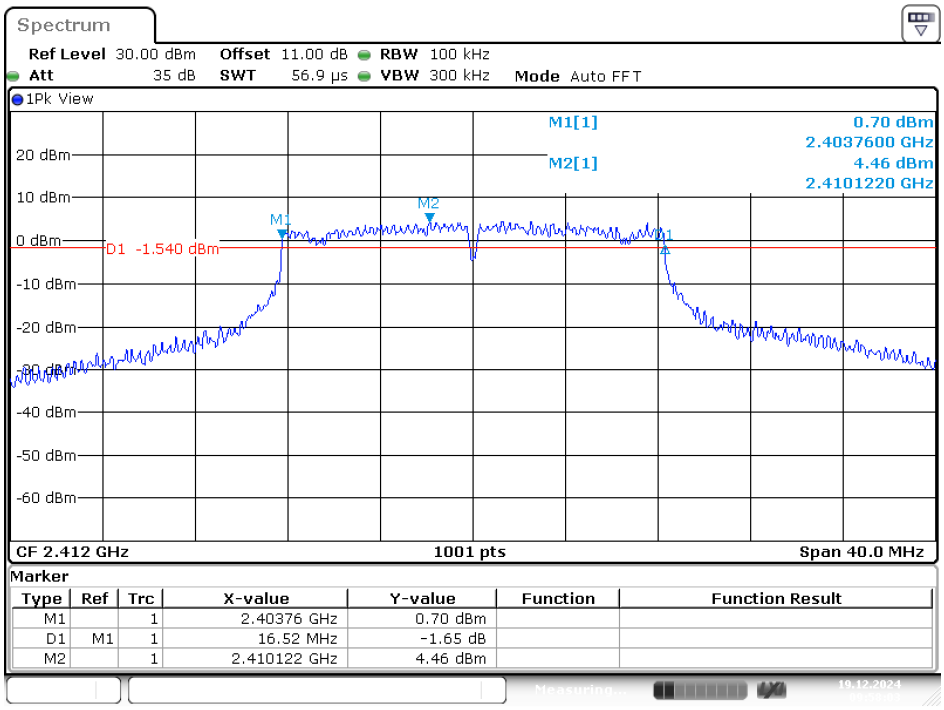
High Channel



Date: 19.DEC.2024 09:55:55

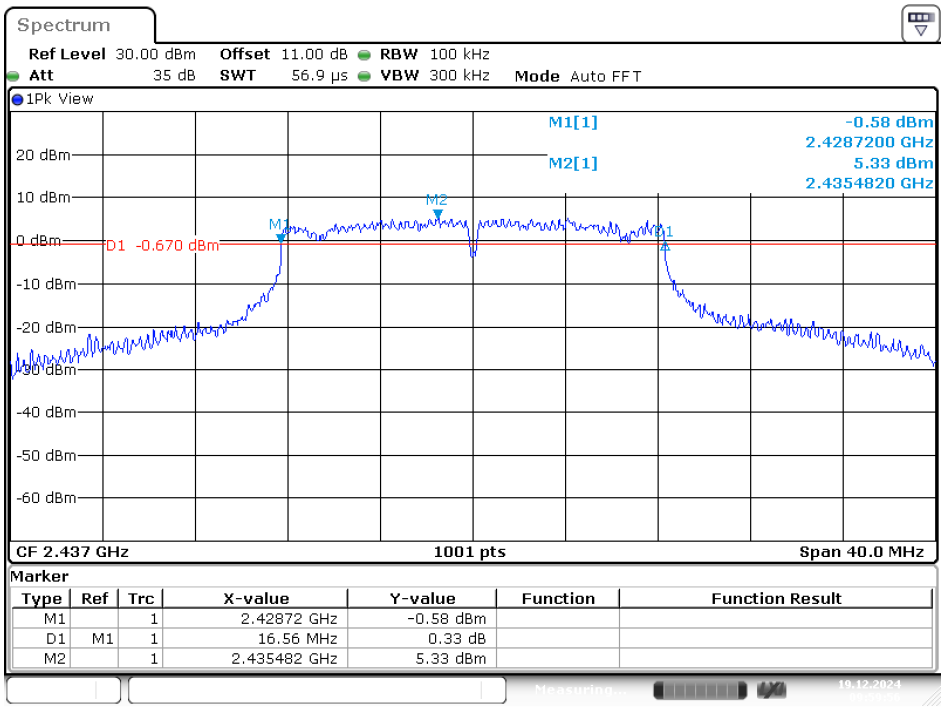
G Mode

Low Channel



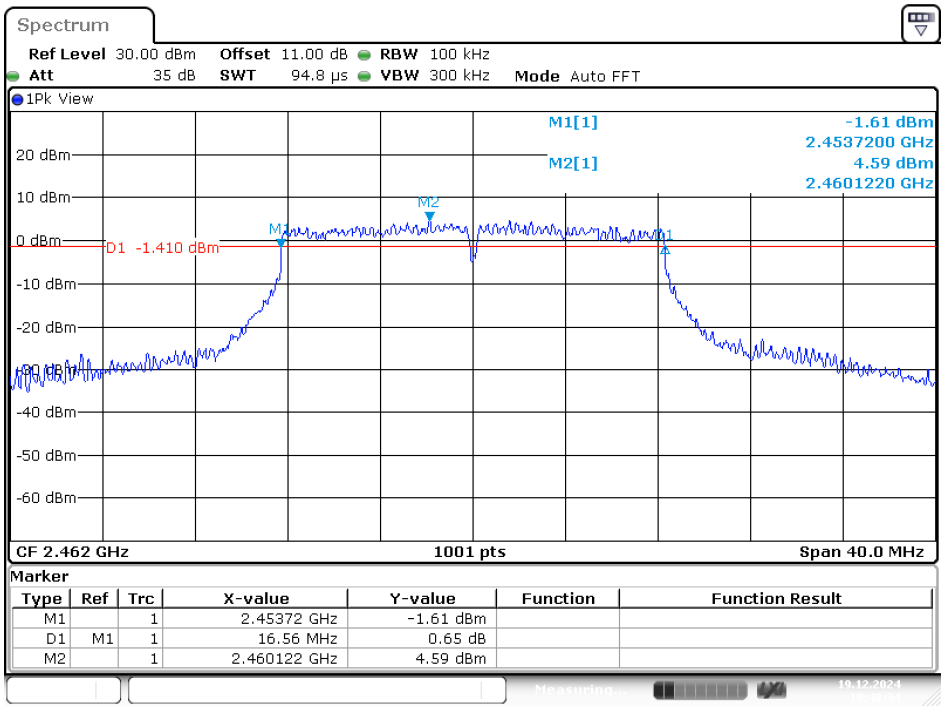
Date: 19.DEC.2024 09:58:03

Middle Channel



Date: 19.DEC.2024 09:59:56

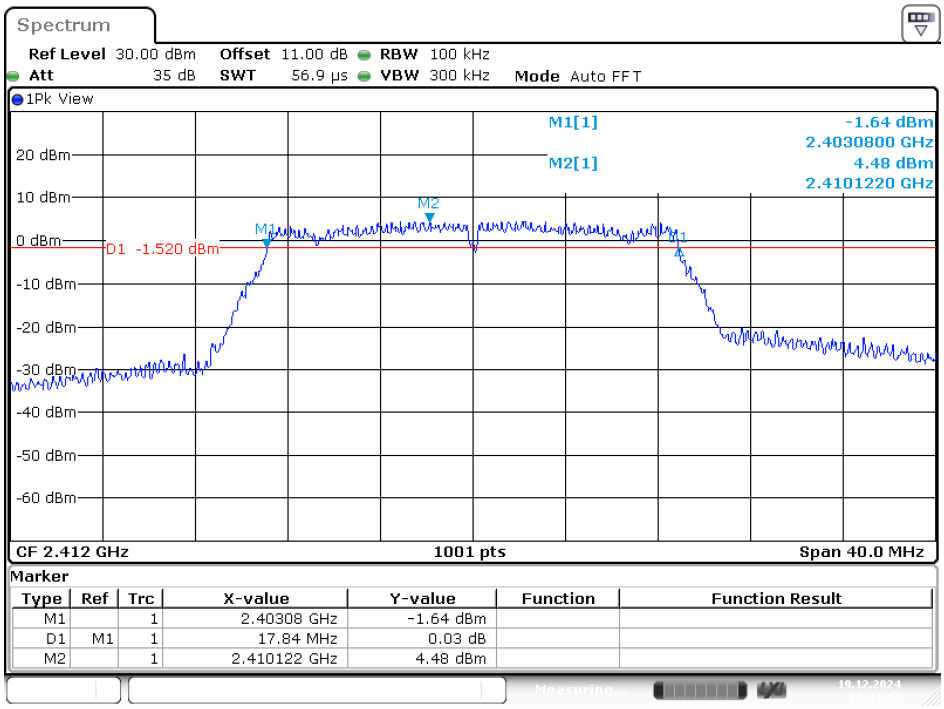
High Channel



Date: 19.DEC.2024 10:40:34

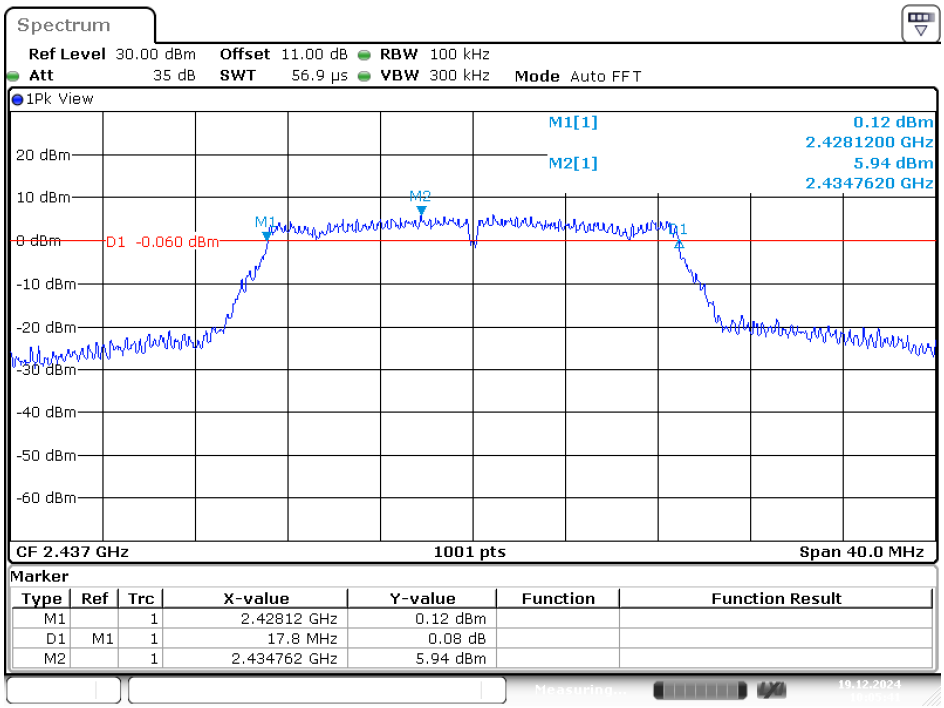
N20 Mode

Low Channel



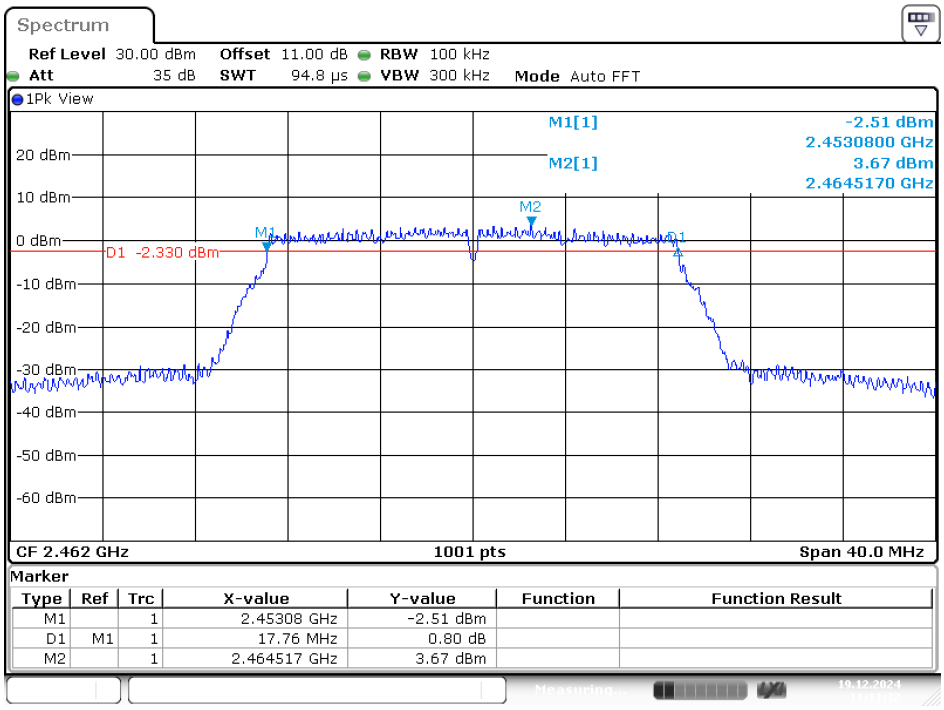
Date: 19.DEC.2024 10:03:47

Middle Channel



Date: 19.DEC.2024 10:05:42

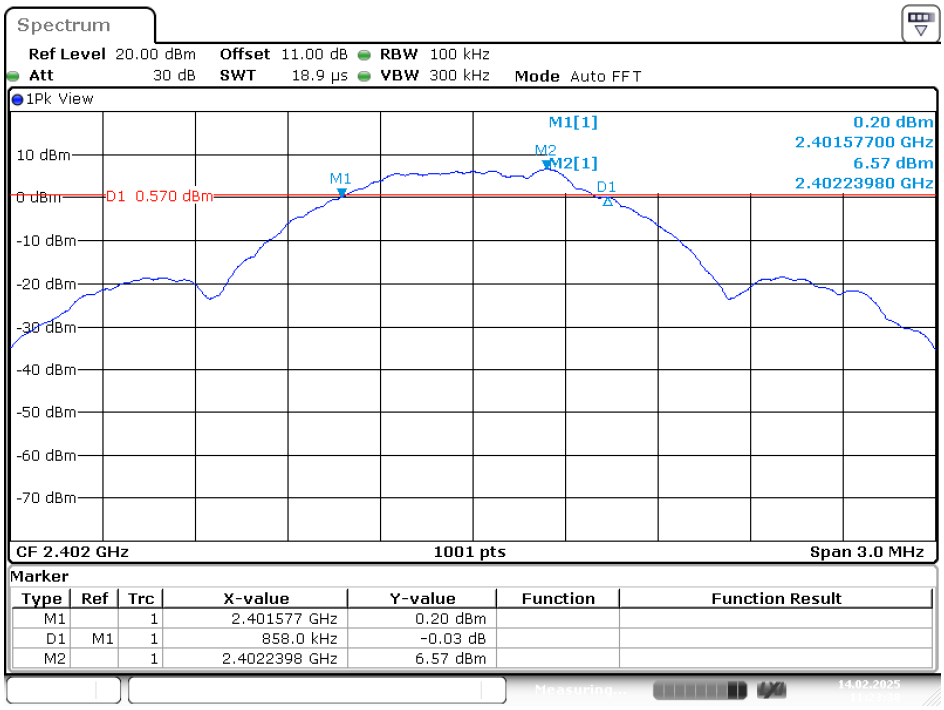
High Channel



Date: 19.DEC.2024 11:11:33

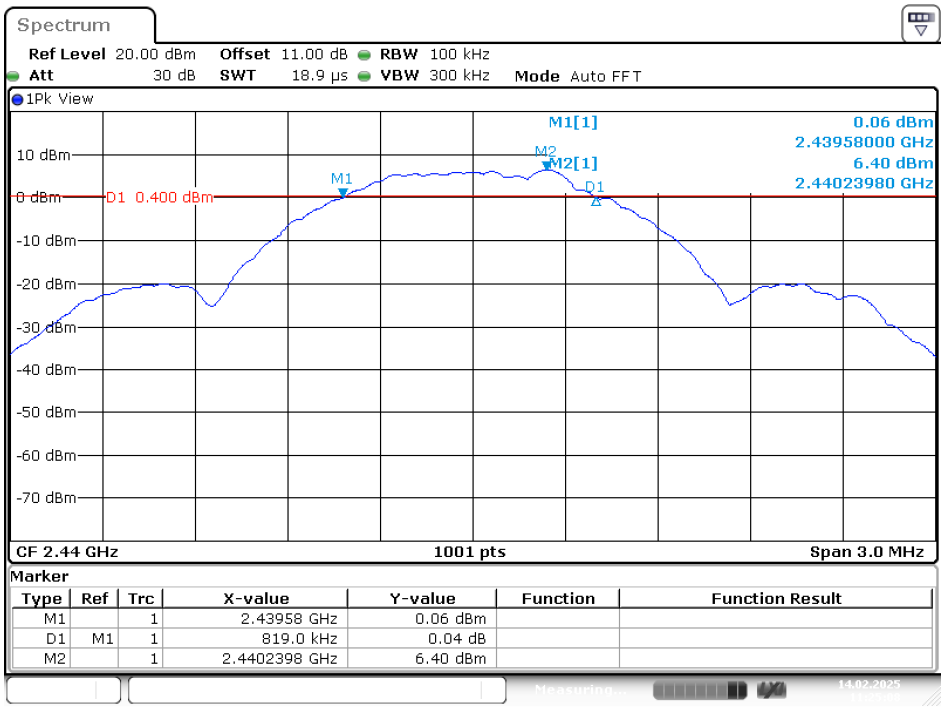
BLE(1M) Mode

Low Channel



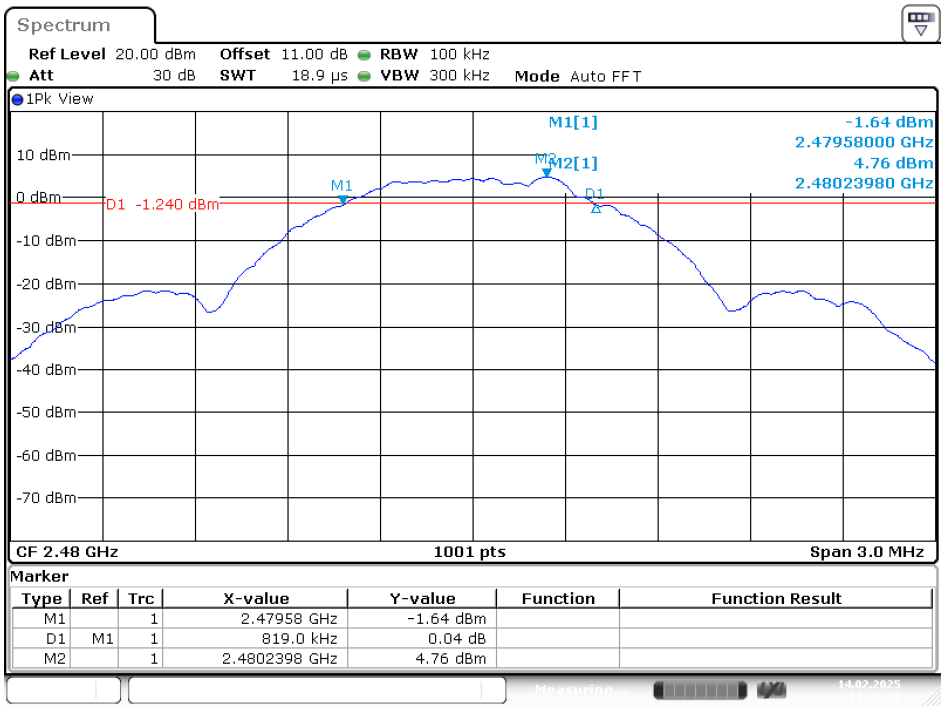
Date: 14.FEB.2025 11:23:38

Middle Channel



Date: 14.FEB.2025 11:25:09

High Channel



Date: 14.FEB.2025 11:26:23

10 FCC §15.247(b)(3) – Maximum Output Power

10.1 Applicable Standard

According to FCC §15.247(b) (3).

Systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

10.2 Test Procedure

According to ANSI C63.10-2013, section 11.9.1.3

According to ANSI C63.10-2013, section 11.9.2.3.1

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to measuring equipment.
3. Set the power meter to test output power, record the result.

10.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
802.11b Mode				
Low	2412	19.09	30	PASS
Middle	2437	19.46	30	PASS
High	2462	19.20	30	PASS
802.11g Mode				
Low	2412	22.84	30	PASS
Middle	2437	23.22	30	PASS
High	2462	22.35	30	PASS
802.11n HT20 Mode				
Low	2412	19.41	30	PASS
Middle	2437	21.07	30	PASS
High	2462	19.28	30	PASS
BLE(1M) Mode				
Low	2402	9.47	30	PASS
Middle	2440	9.41	30	PASS
High	2480	7.62	30	PASS

Conducted Average Output Power

Channel	Frequency (MHz)	Conducted Average Output Power (dBm)	Maximum Conducted Average Output Power With Duty Factor (dBm)	Limit (dBm)	Result
802.11b Mode					
Low	2412	17.11	17.11	30	PASS
Middle	2437	17.40	17.40	30	PASS
High	2462	16.82	16.82	30	PASS
802.11g Mode					
Low	2412	16.34	16.34	30	PASS
Middle	2437	17.11	17.11	30	PASS
High	2462	15.95	15.95	30	PASS
802.11n HT20 Mode					
Low	2412	16.47	16.47	30	PASS
Middle	2437	17.16	17.16	30	PASS
High	2462	16.23	16.23	30	PASS
BLE(1M) Mode					
Low	2402	8.68	8.68	30	PASS
Middle	2440	8.65	8.65	30	PASS
High	2480	6.88	6.88	30	PASS

11 FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

11.1 Applicable Standard

According to FCC §15.247(d).

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

11.2 Test Procedure

According to ANSI C63.10-2013 Section 11.11

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

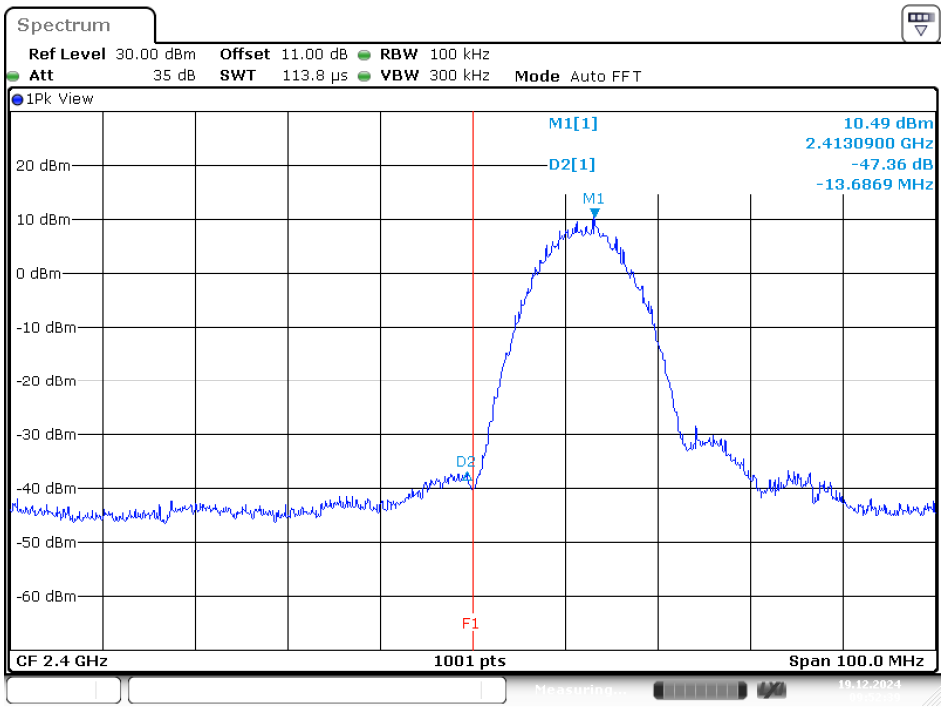
11.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
B Mode				
Low	2412	47.36	≥ 20	PASS
High	2462	51.42	≥ 20	PASS
G Mode				
Low	2412	27.71	≥ 20	PASS
High	2462	41.16	≥ 20	PASS
N20 Mode				
Low	2412	32.08	≥ 20	PASS
High	2462	38.90	≥ 20	PASS
BLE(1M) Mode				
Low	2402	47.60	≥ 20	PASS
High	2480	50.83	≥ 20	PASS

Please refer to the following plots.

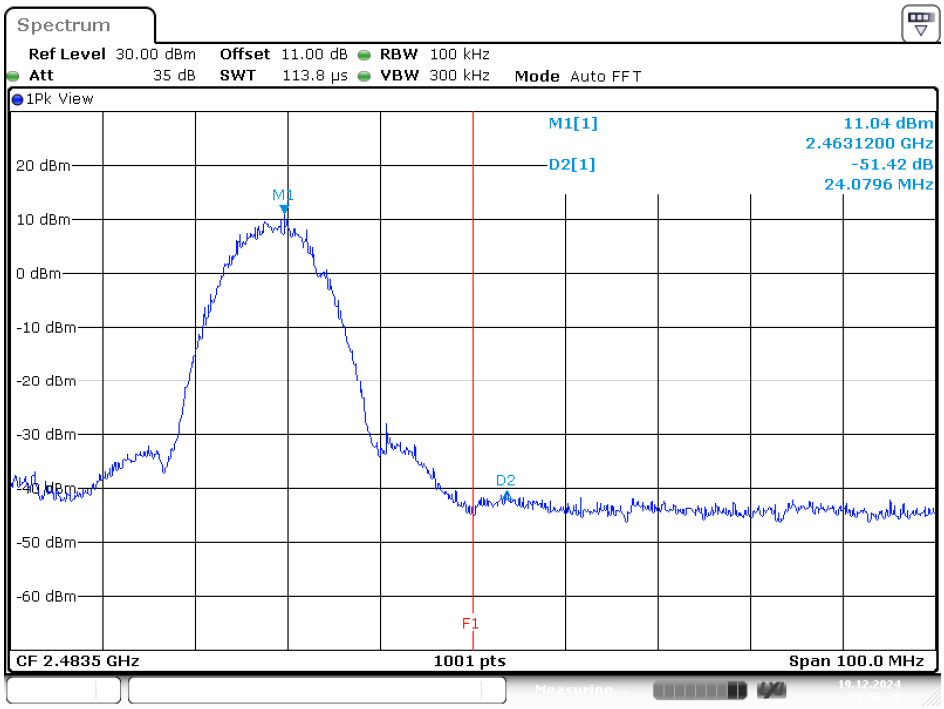
B Mode

Band Edge, Left Side



Date: 19.DEC.2024 09:52:39

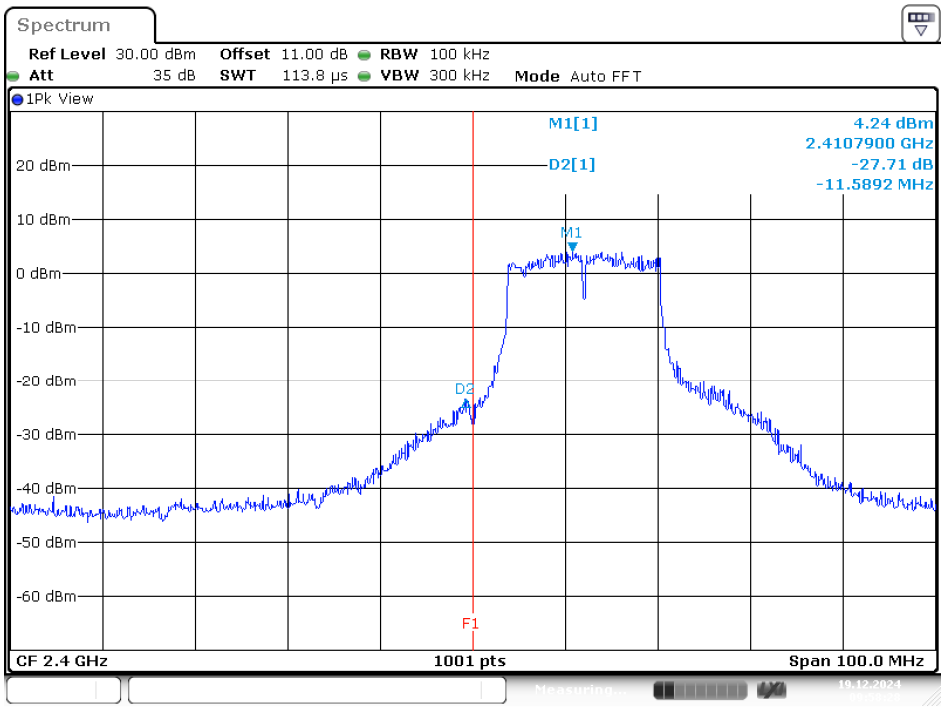
Band Edge, Right Side



Date: 19.DEC.2024 09:56:20

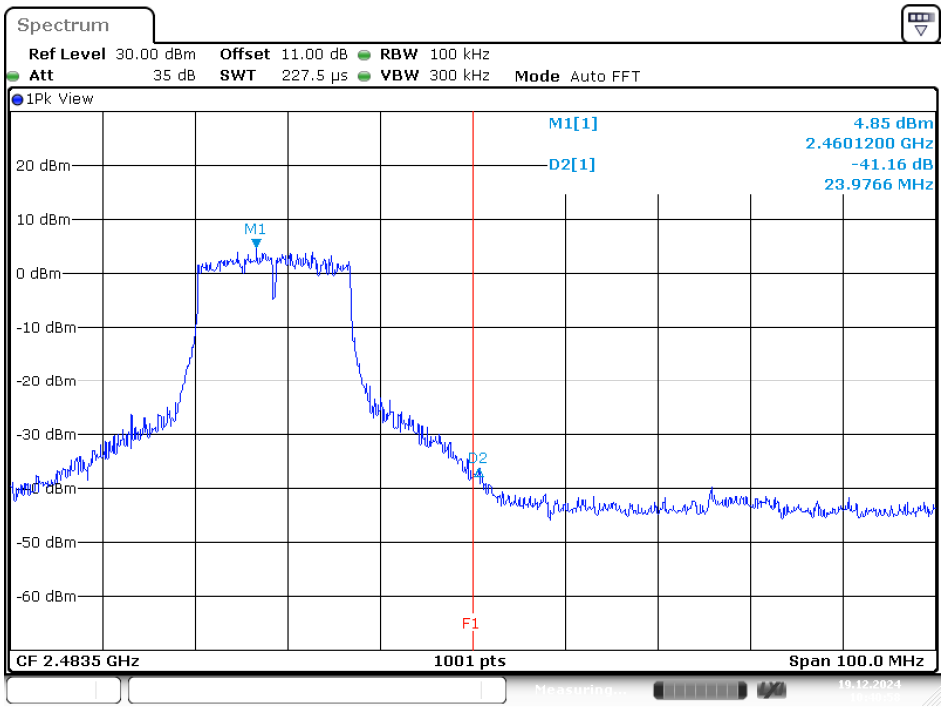
G Mode

Band Edge, Left Side



Date: 19.DEC.2024 09:58:28

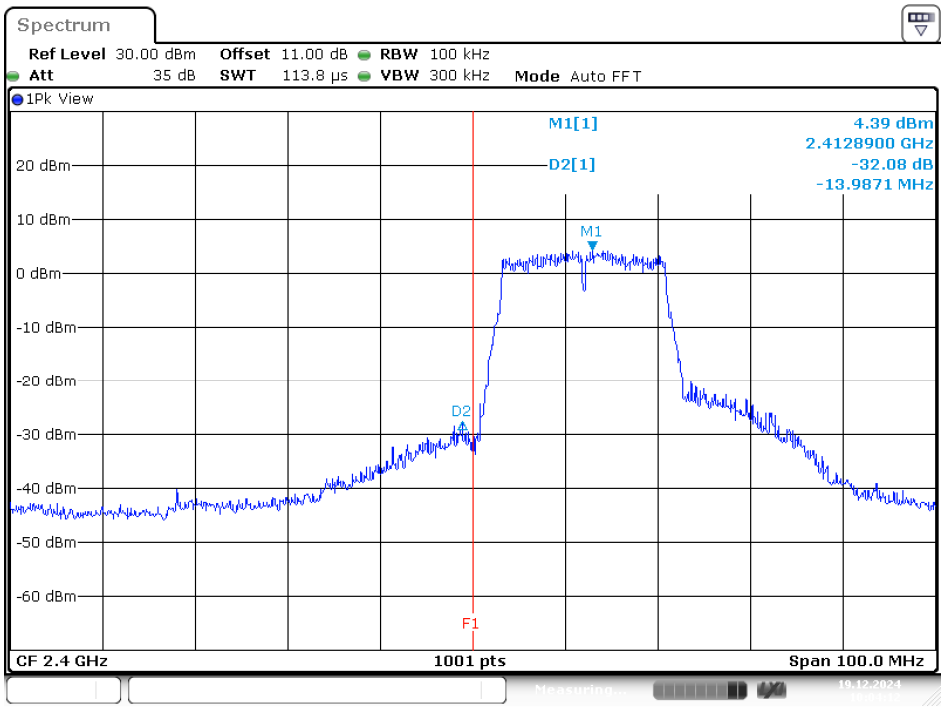
Band Edge, Right Side



Date: 19.DEC.2024 10:40:59

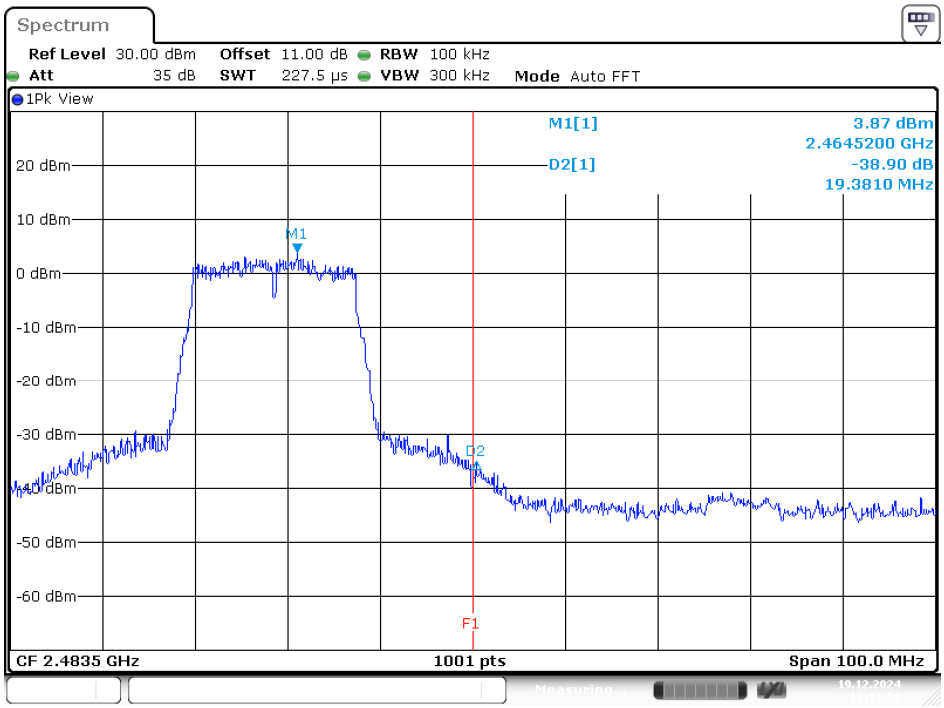
N20 Mode

Band Edge, Left Side



Date: 19.DEC.2024 10:04:12

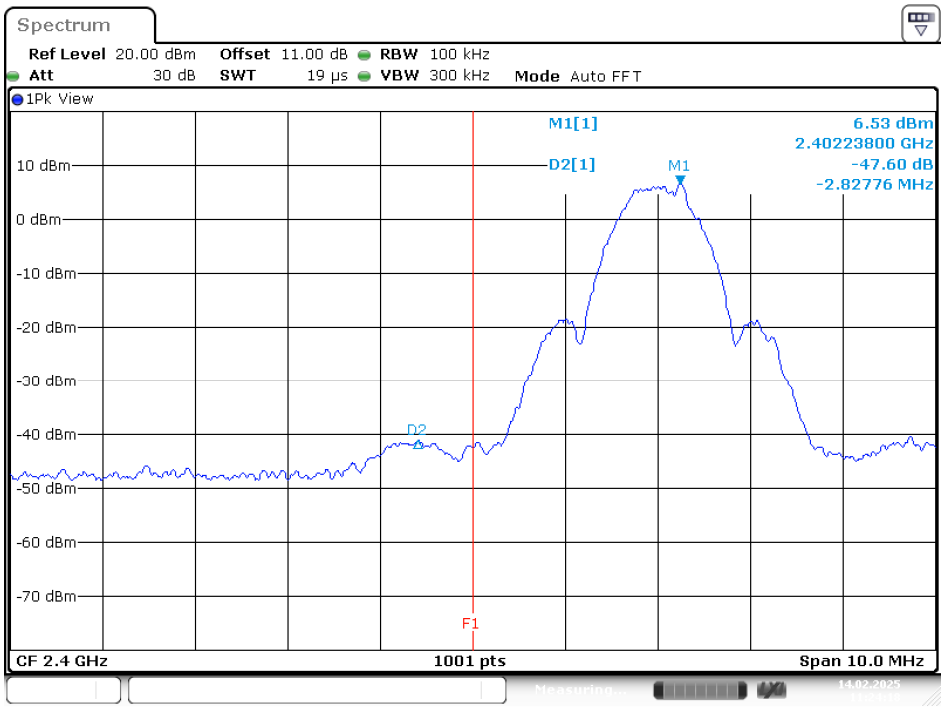
Band Edge, Right Side



Date: 19.DEC.2024 11:11:58

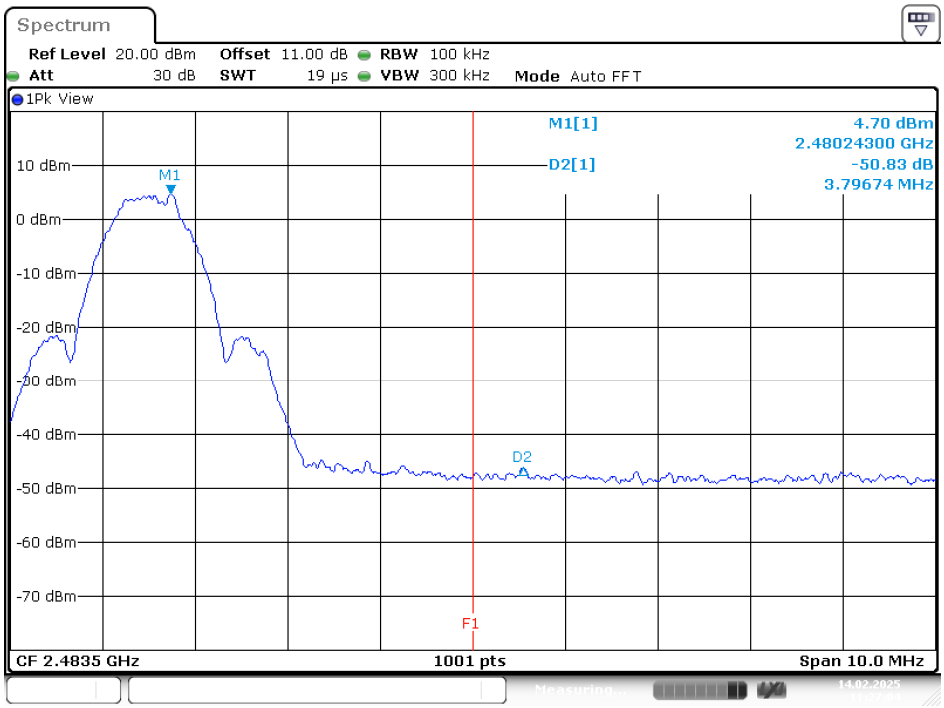
BLE(1M) Mode

Band Edge, Low Channel



Date: 14.FEB.2025 11:24:18

Band Edge, High Channel



Date: 14.FEB.2025 11:27:04

12 FCC §15.247(e) – Power Spectral Density

12.1 Applicable Standard

According to FCC §15.247(e).

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Test Procedure

According to ANSI C63.10-2013, section 11.10.2

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.

d) Set the VBW ≥ [3 × RBW].

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

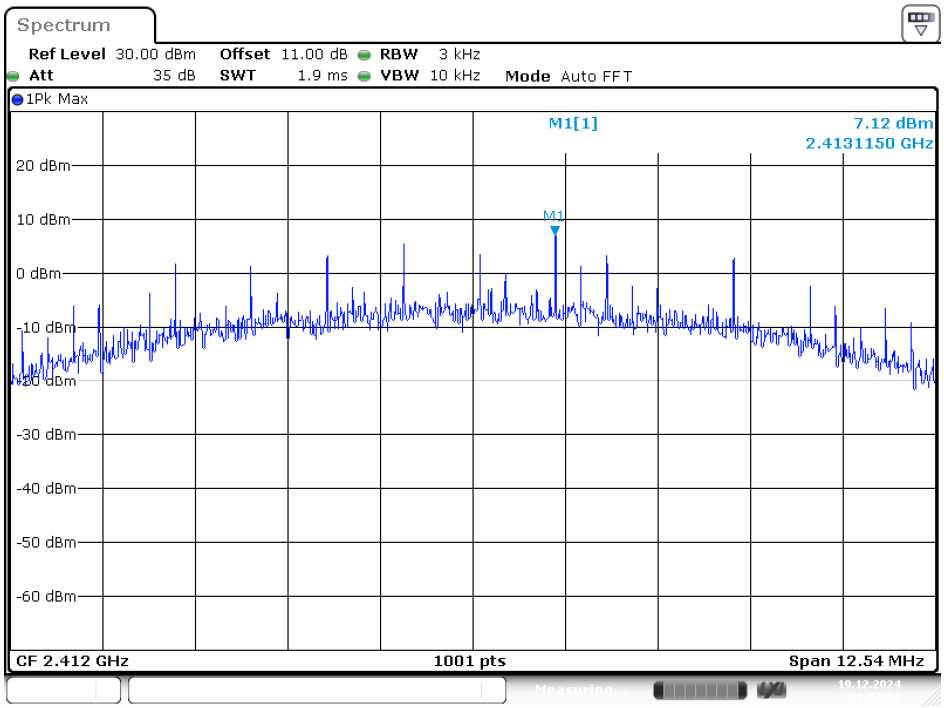
12.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
B Mode				
Low	2412	7.12	8	PASS
Middle	2437	7.79	8	PASS
High	2462	7.27	8	PASS
G Mode				
Low	2412	-8.10	8	PASS
Middle	2437	-7.09	8	PASS
High	2462	-7.90	8	PASS
N20 Mode				
Low	2412	-6.87	8	PASS
Middle	2437	-6.19	8	PASS
High	2462	-7.56	8	PASS
BLE(1M) Mode				
Low	2402	-9.46	8	PASS
Middle	2440	-8.85	8	PASS
High	2480	-10.47	8	PASS

Please refer to the following plots

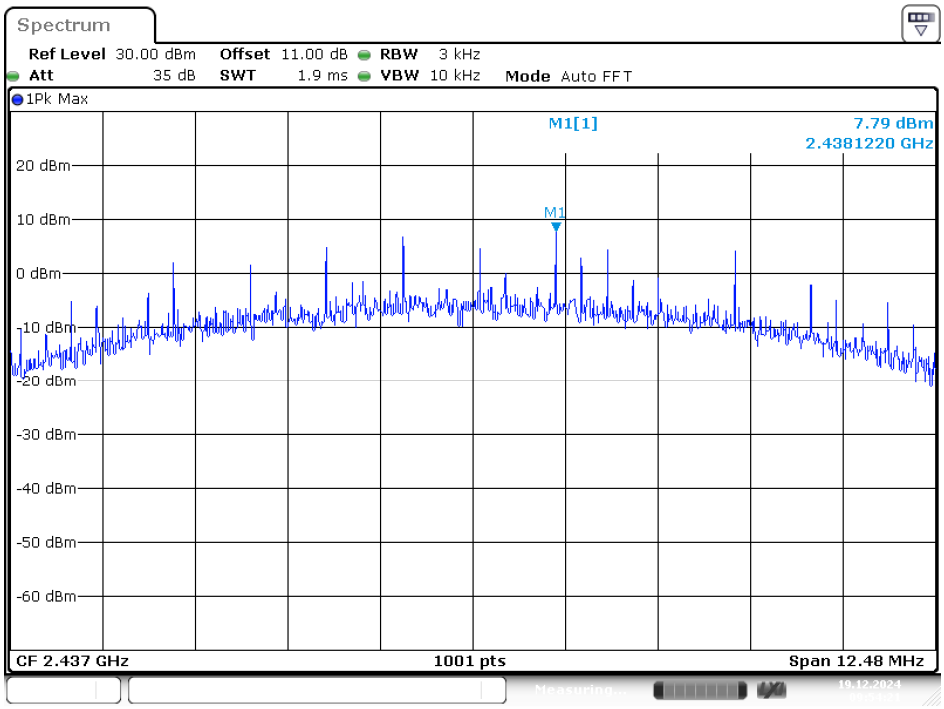
B Mode

Low Channel



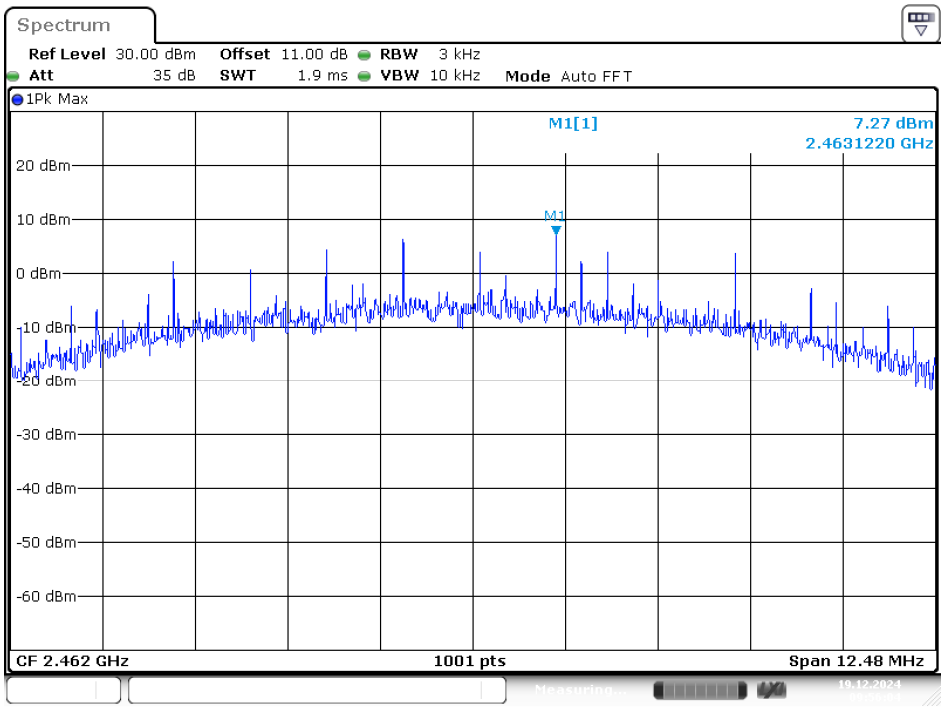
Date: 19.DEC.2024 09:52:23

Middle Channel



Date: 19.DEC.2024 09:54:21

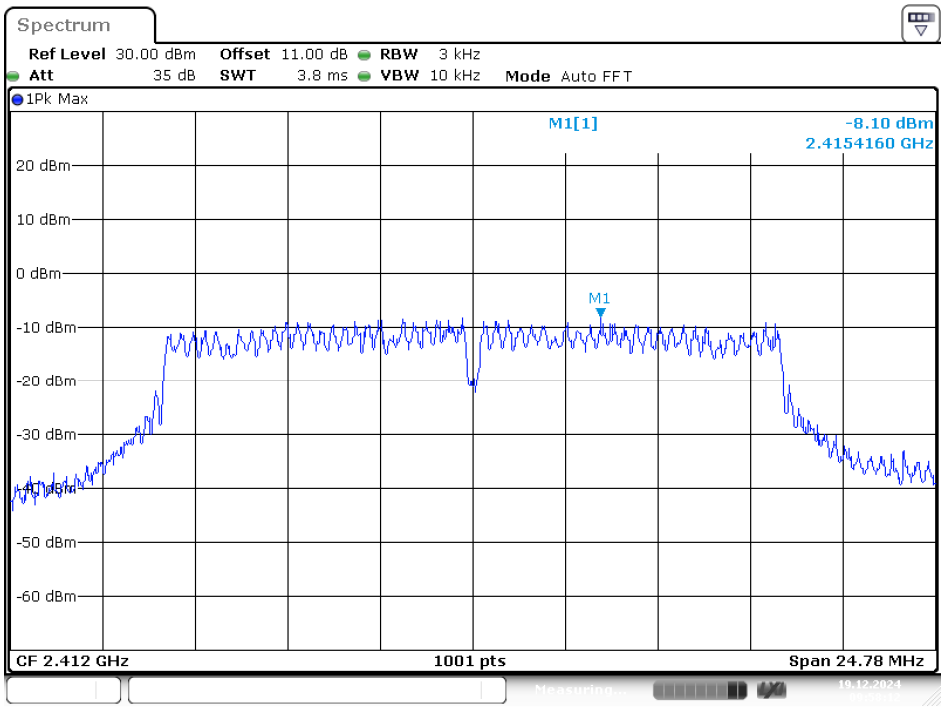
High Channel



Date: 19.DEC.2024 09:56:04

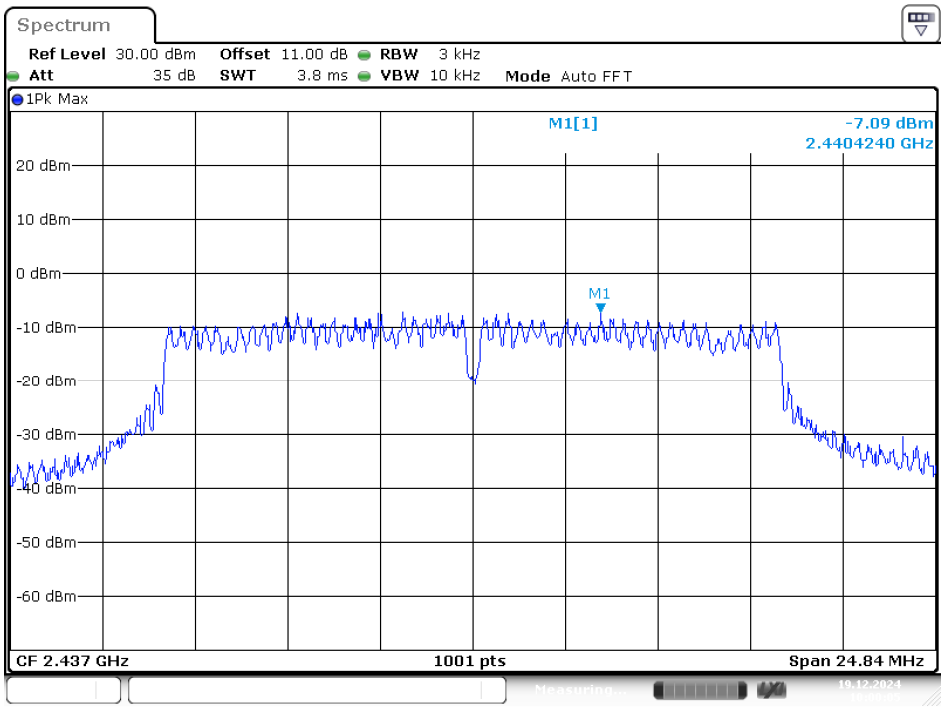
G Mode

Low Channel



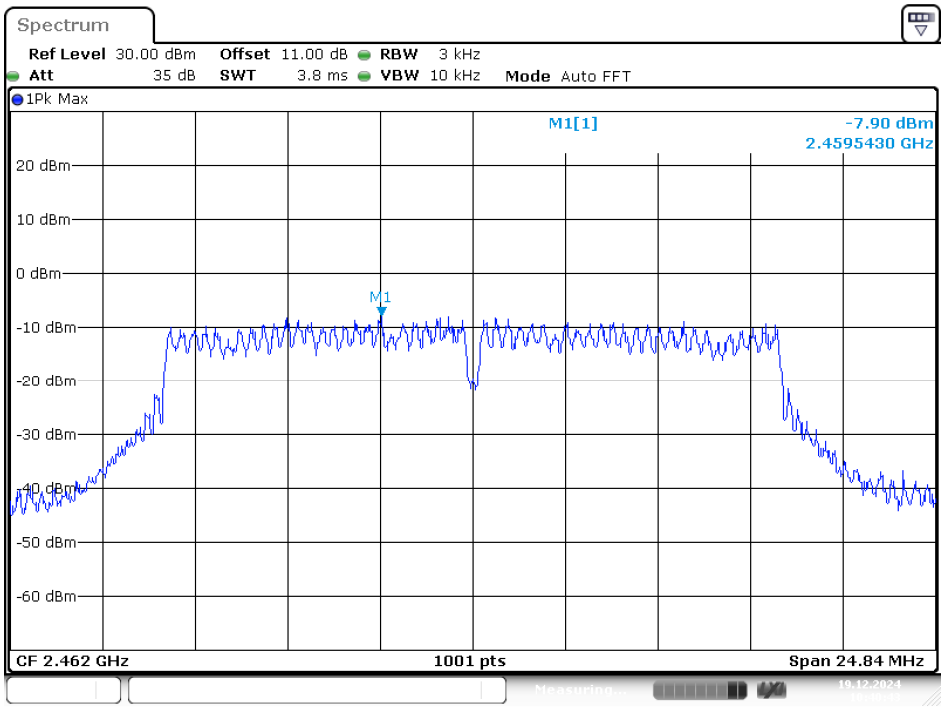
Date: 19.DEC.2024 09:58:12

Middle Channel



Date: 19.DEC.2024 10:00:05

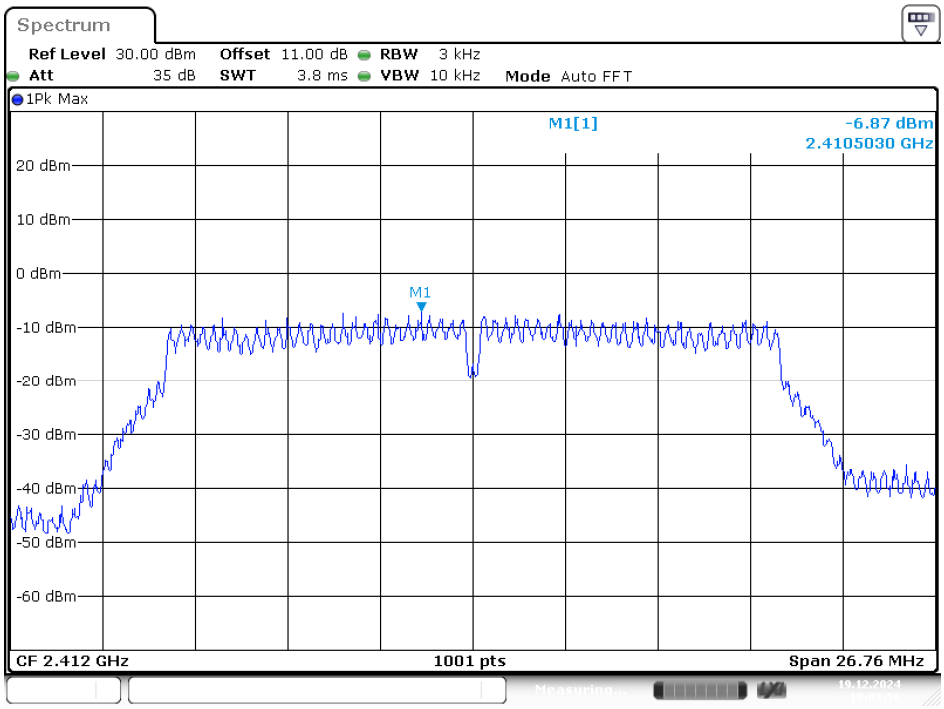
High Channel



Date: 19.DEC.2024 10:40:43

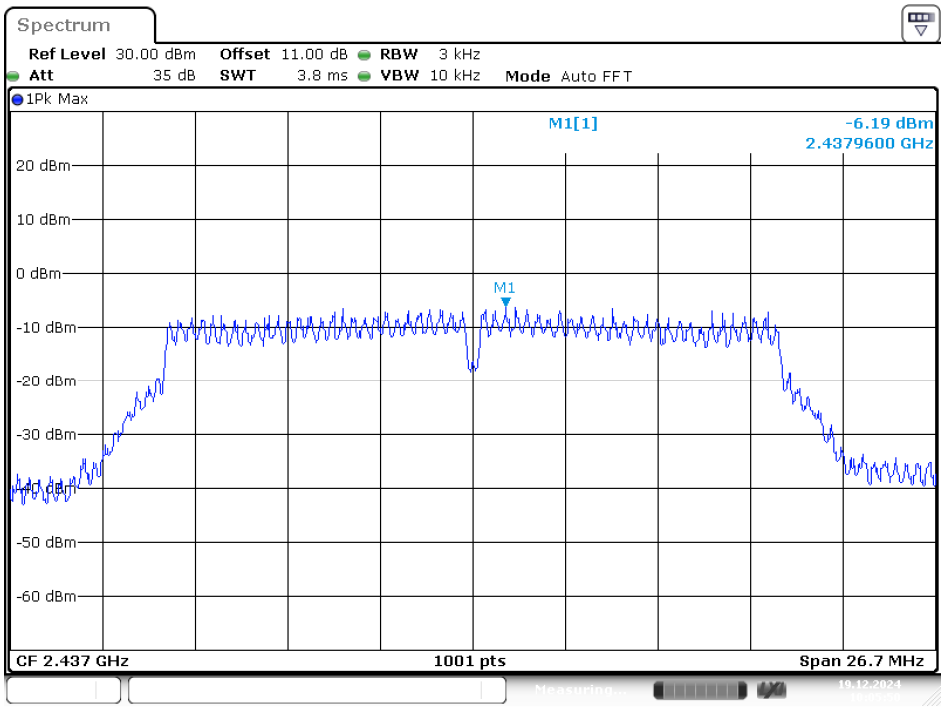
N20 Mode

Low Channel



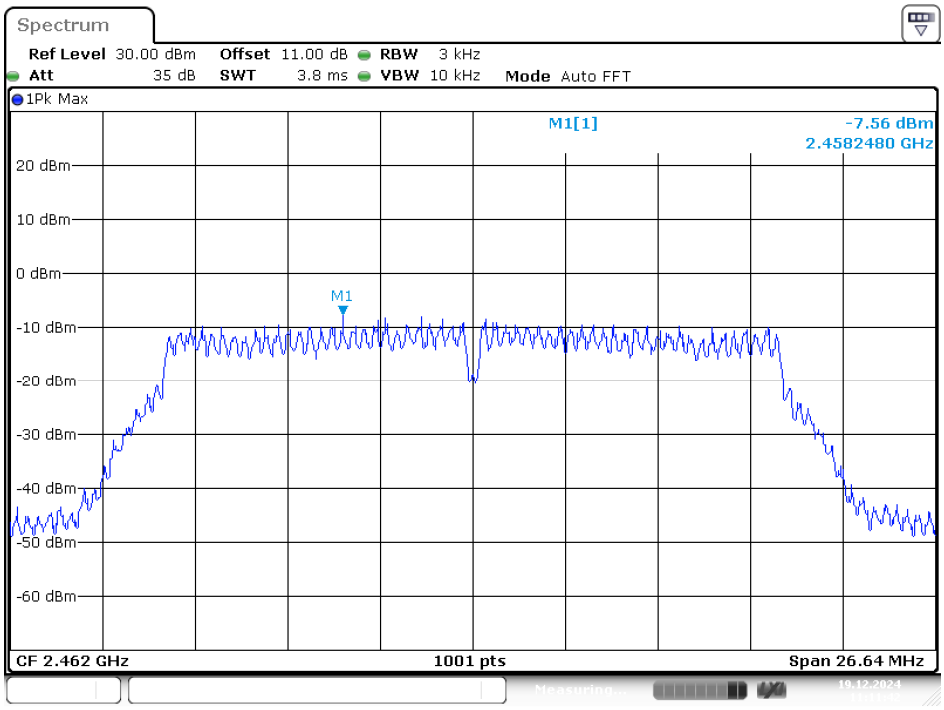
Date: 19.DEC.2024 10:03:56

Middle Channel



Date: 19.DEC.2024 10:05:51

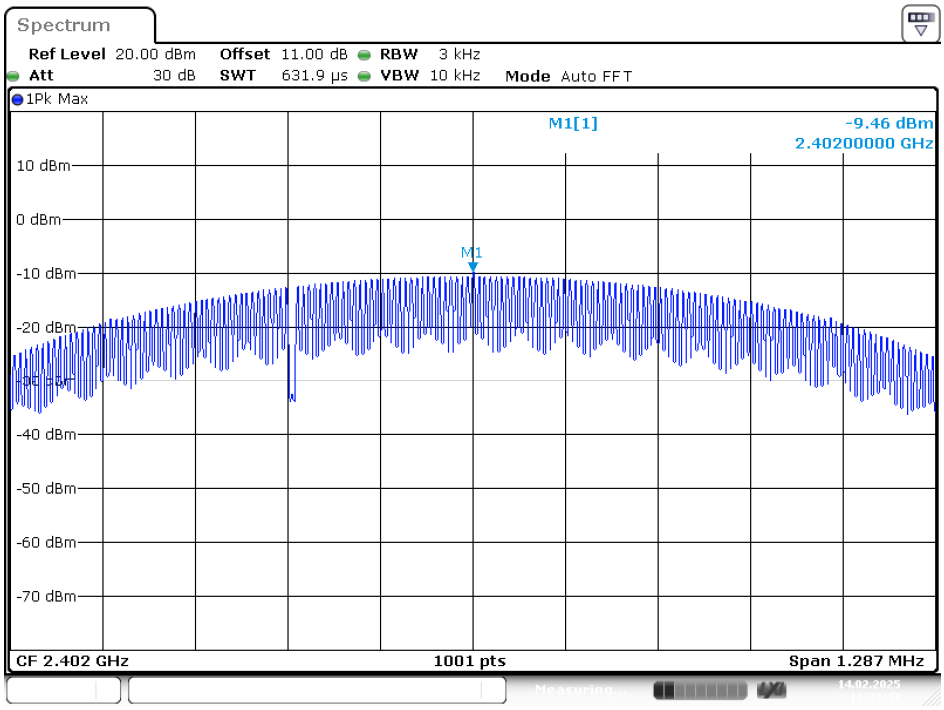
High Channel



Date: 19.DEC.2024 11:11:42

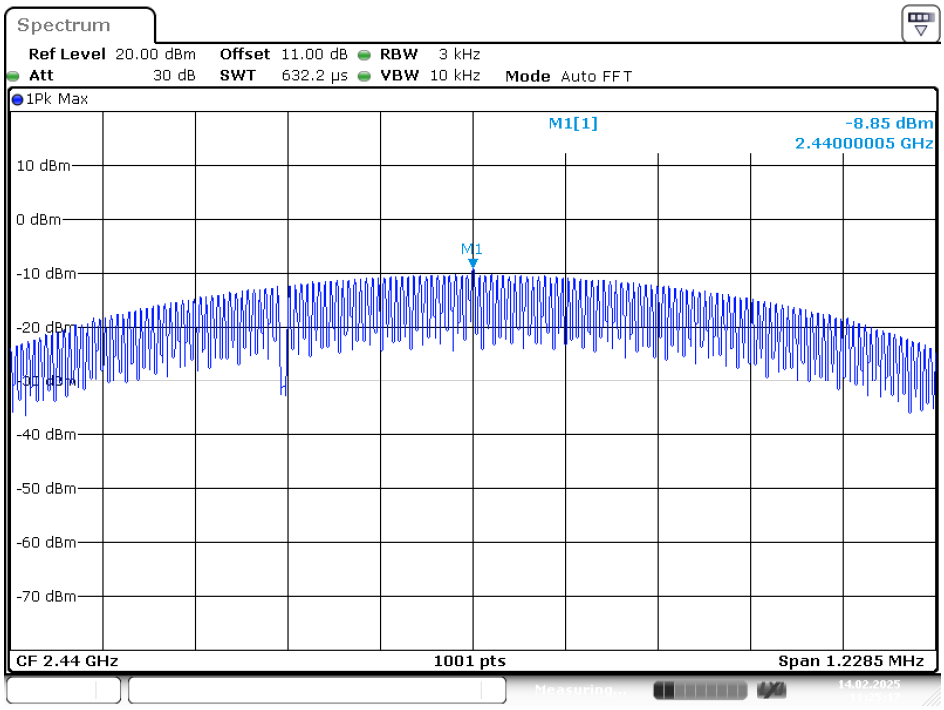
BLE(1M) Mode

Low Channel



Date: 14.FEB.2025 11:23:47

Middle Channel



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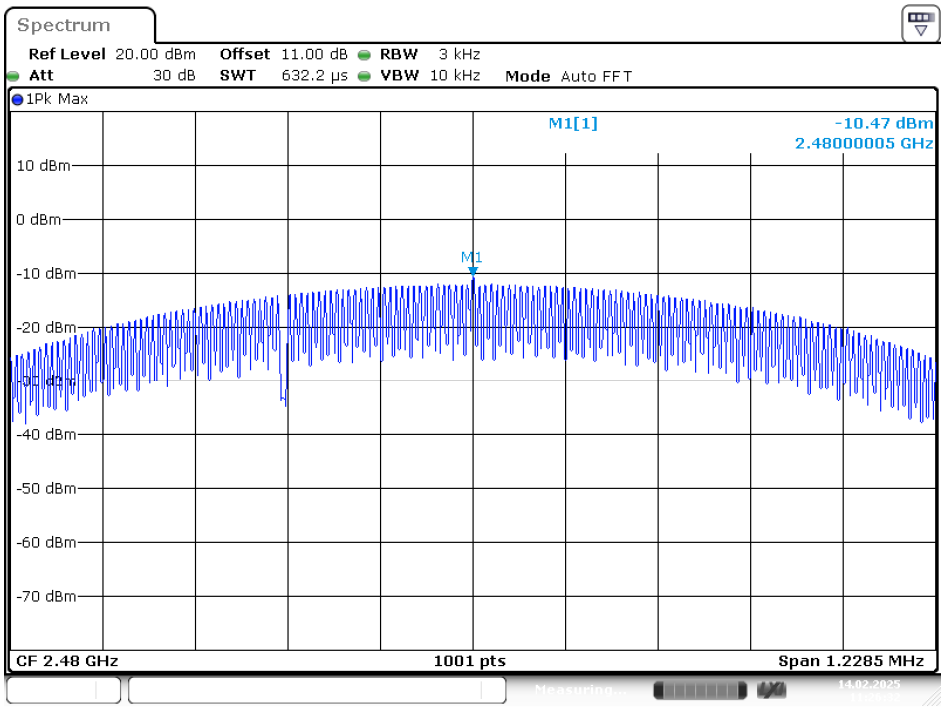
High Channel



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