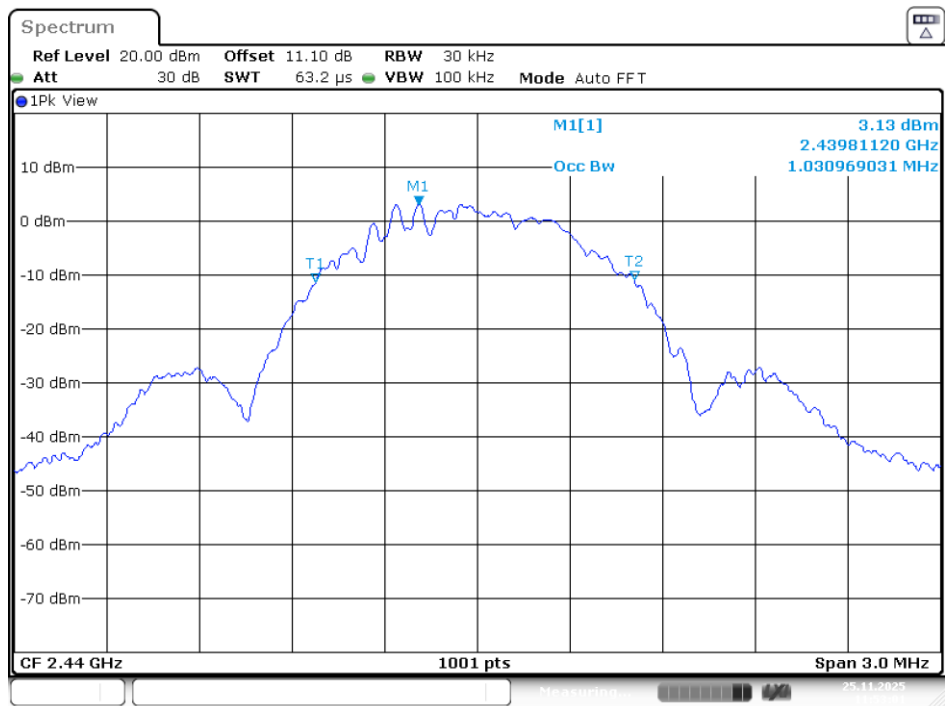
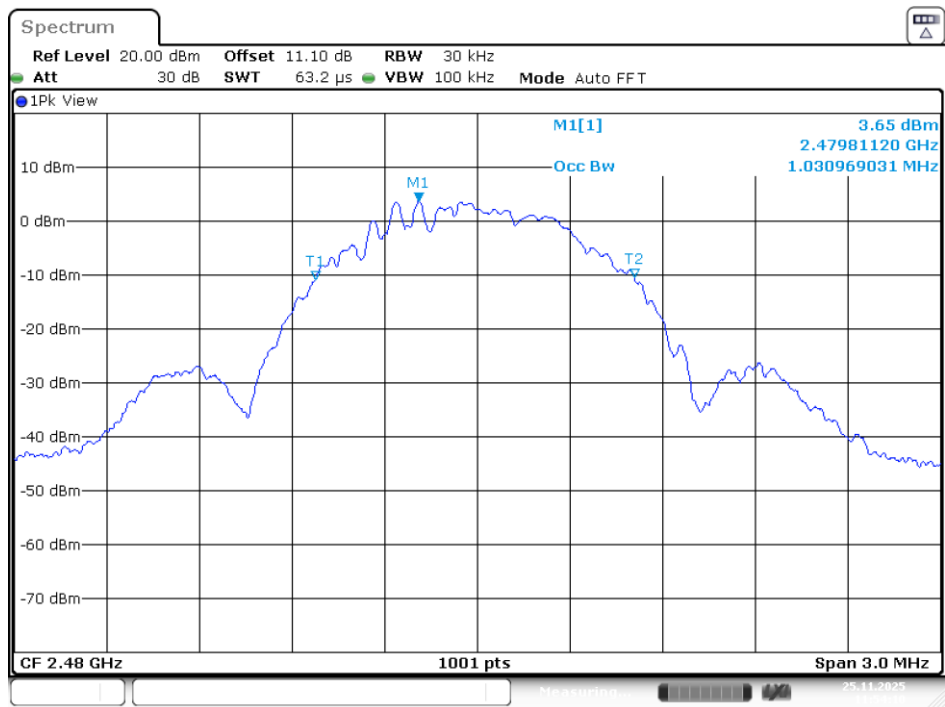


Middle Channel



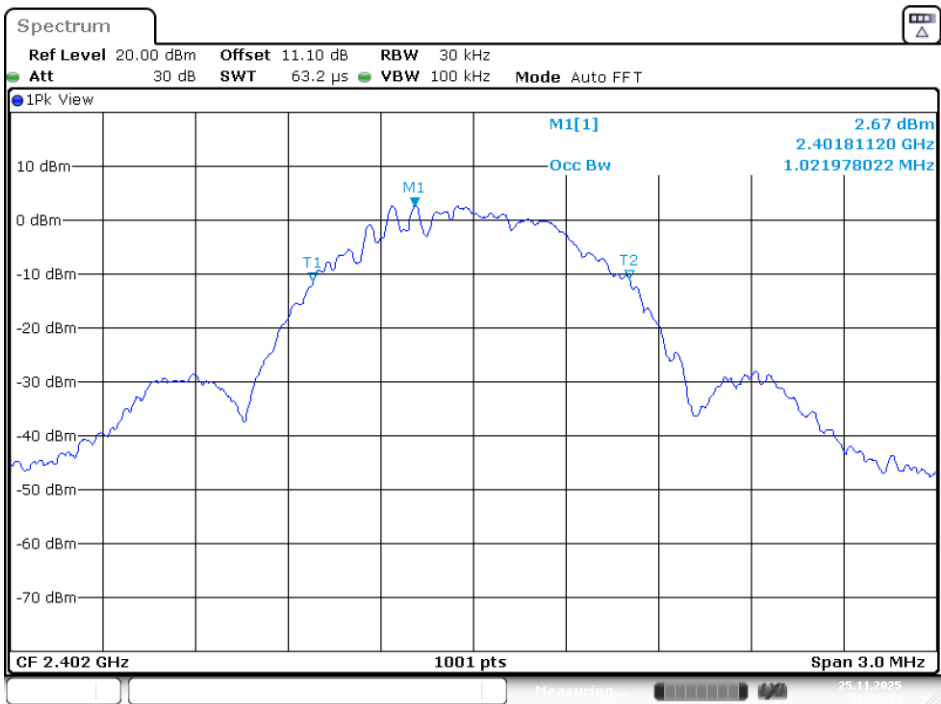
Date: 25.NOV.2025 11:53:02

High Channel



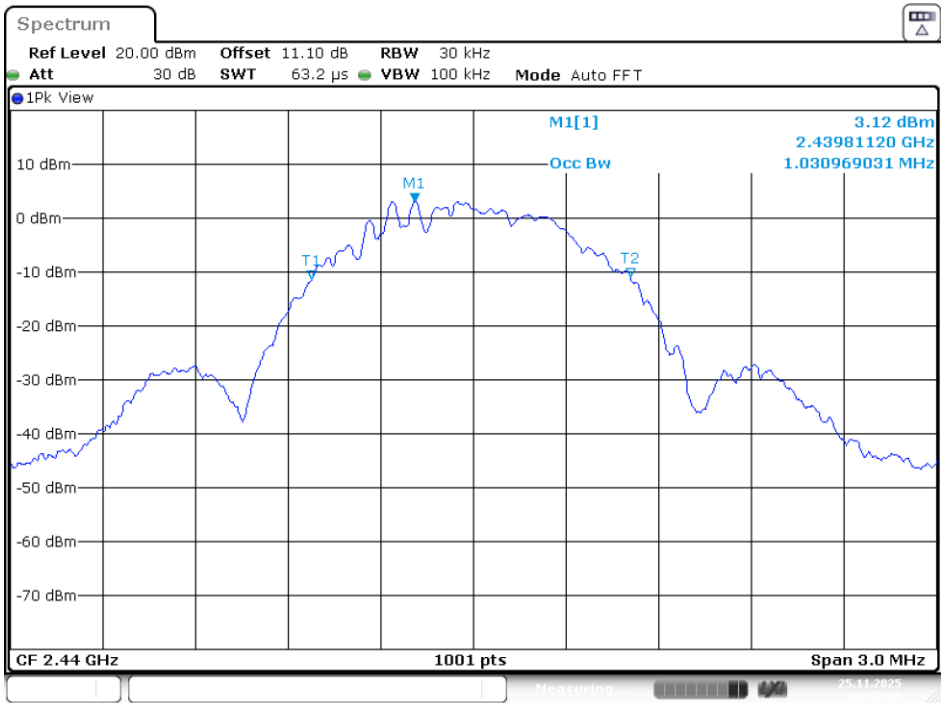
Date: 25.NOV.2025 11:54:11

BLE(1M) Mode
Low Channel



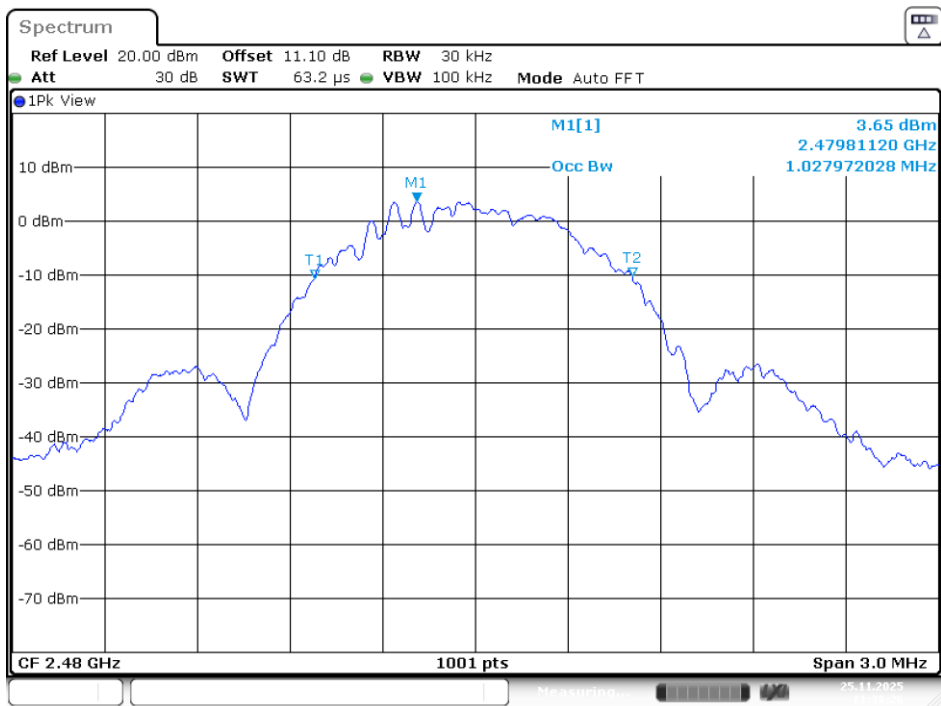
Date: 25.NOV.2025 11:35:33

Middle Channel



Date: 25.NOV.2025 11:37:15

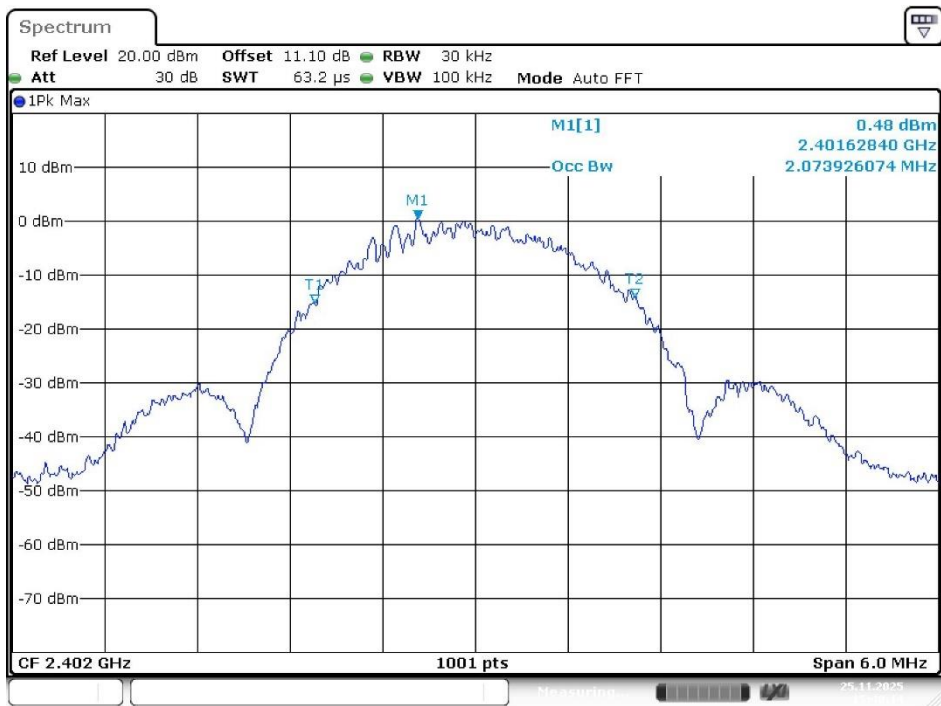
High Channel



Date: 25.NOV.2025 11:38:27

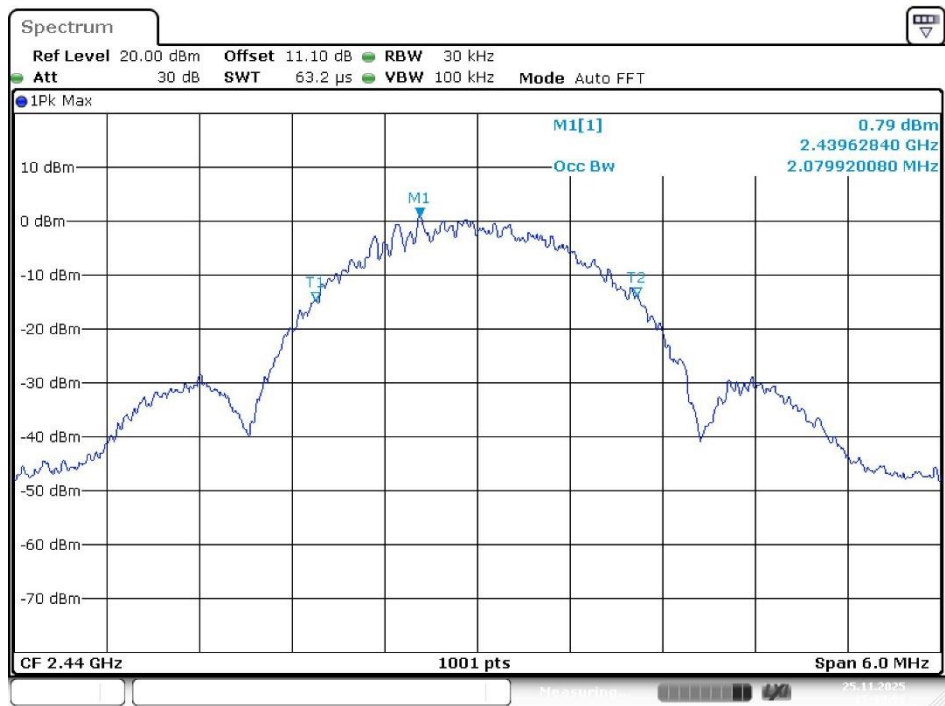
BLE(2M) Mode

Low Channel



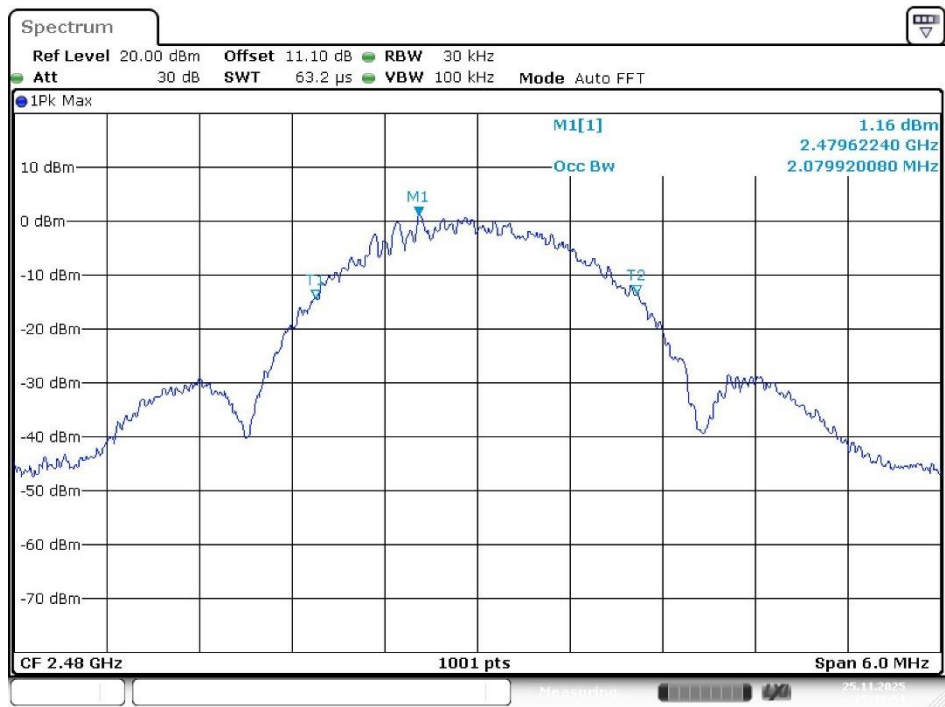
Date: 25.NOV.2025 15:40:13

Middle Channel



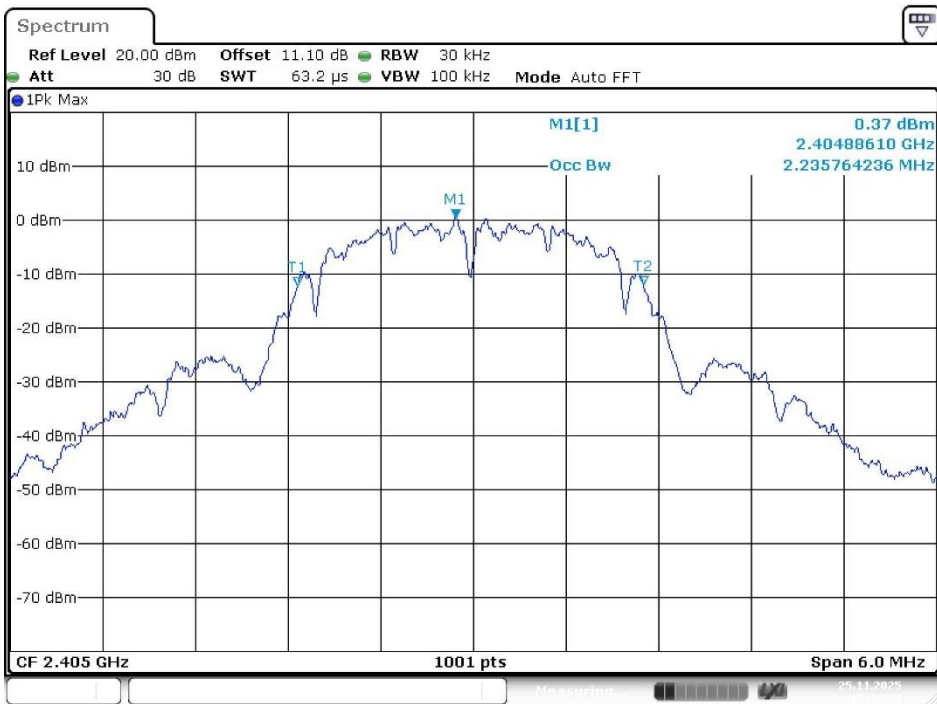
Date: 25.NOV.2025 15:39:33

High Channel



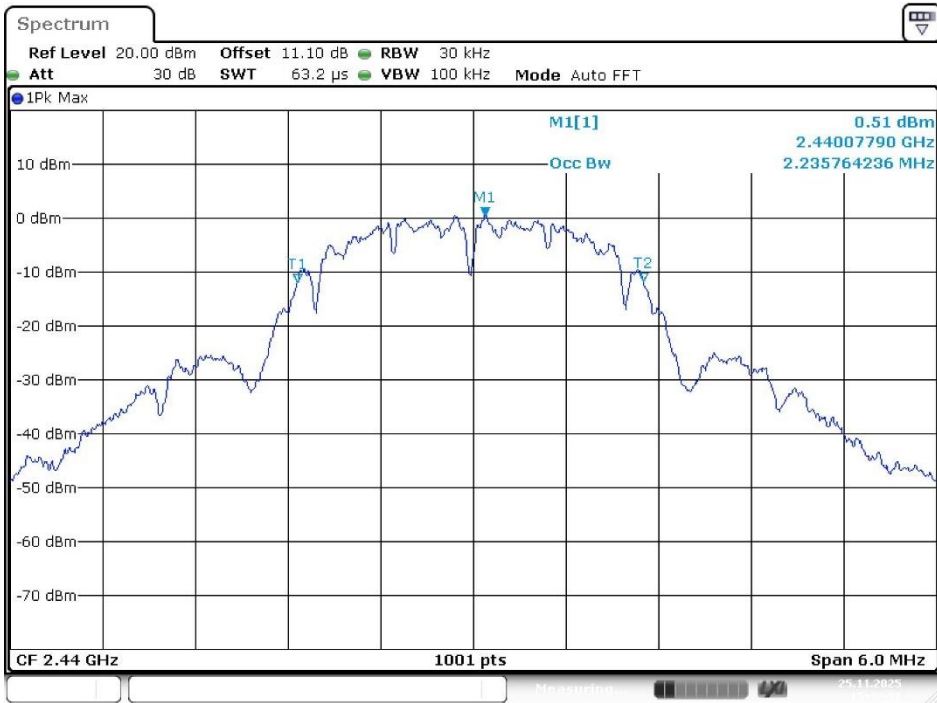
Date: 25.NOV.2025 15:38:54

Zigbee Mode
Low Channel



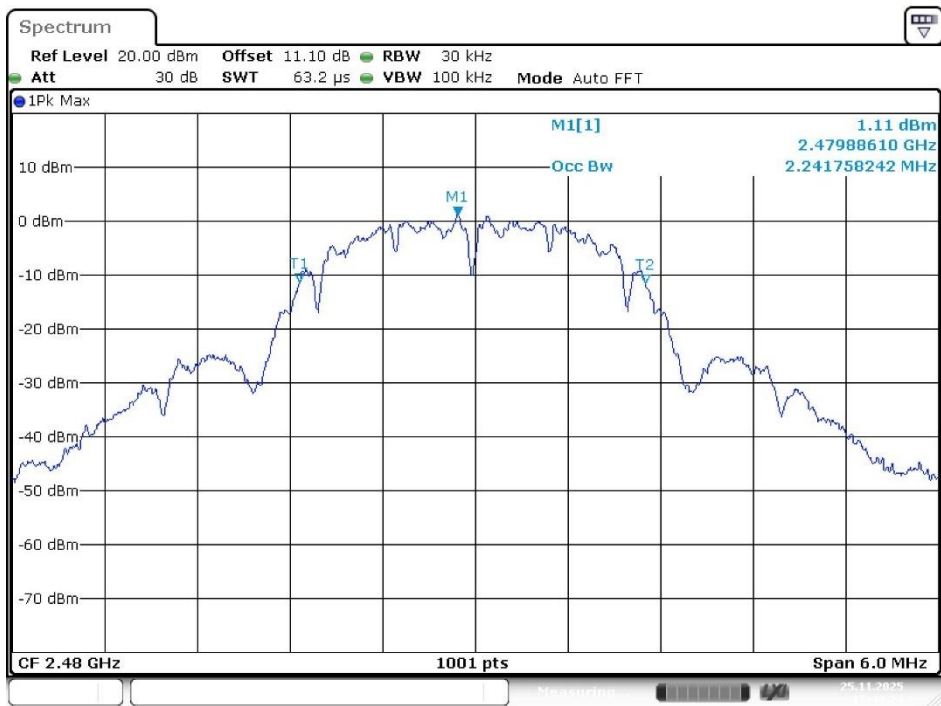
Date: 25.NOV.2025 15:42:03

Middle Channel



Date: 25.NOV.2025 15:42:39

High Channel



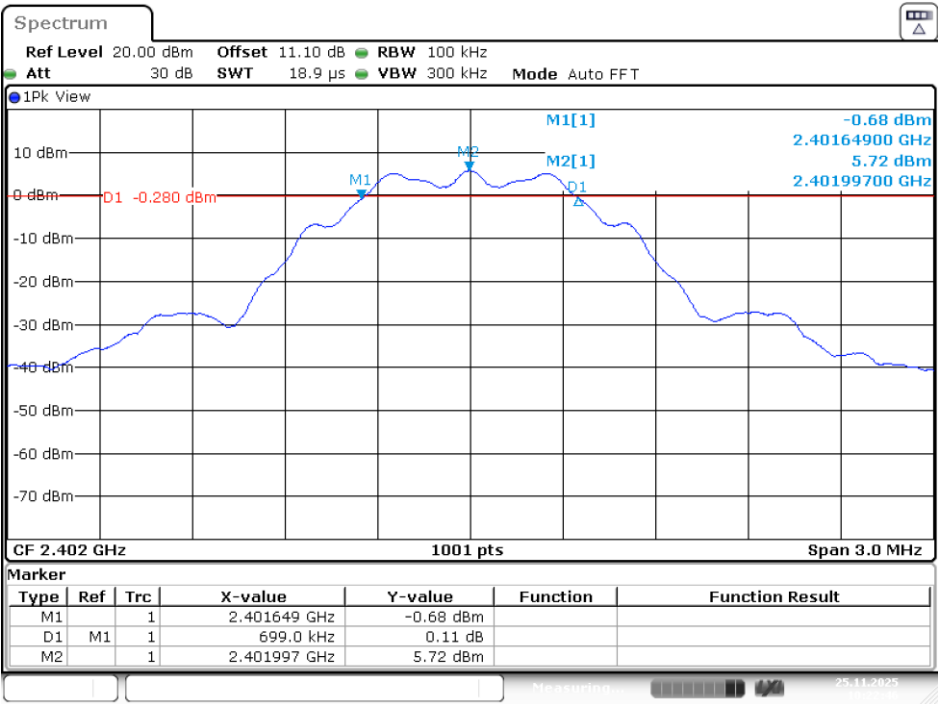
Date: 25.NOV.2025 15:43:24

Series 44229669593:

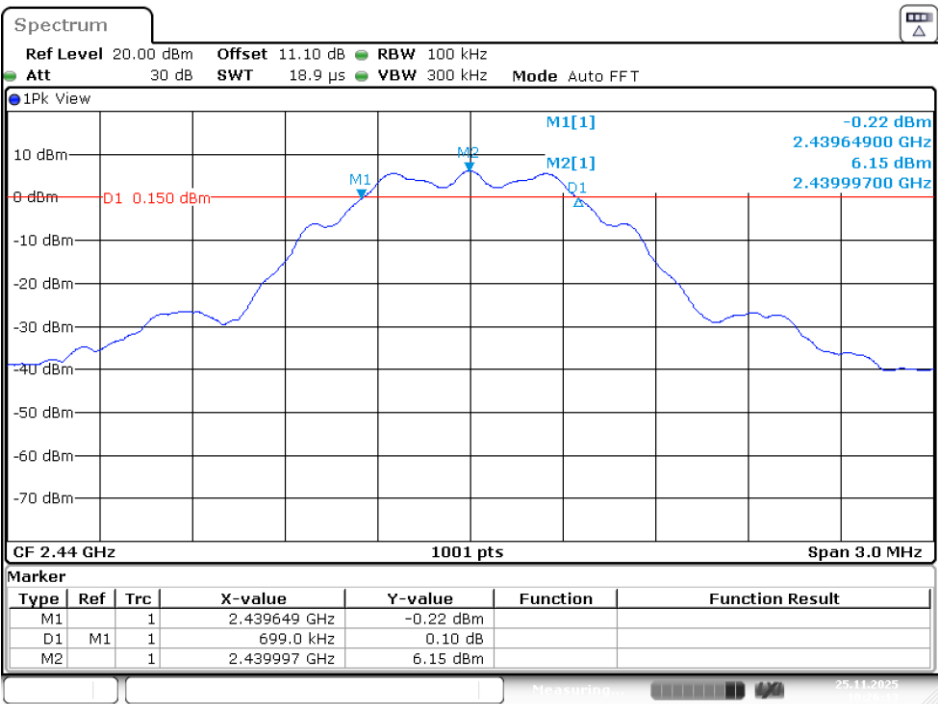
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (kHz)	Result
BLE(125k) Mode					
Low	2402	0.70	1.05	> 500	PASS
Middle	2440	0.70	1.05	> 500	PASS
High	2480	0.69	1.05	> 500	PASS
BLE(500k) Mode					
Low	2402	0.70	1.02	> 500	PASS
Middle	2440	0.73	1.03	> 500	PASS
High	2480	0.73	1.03	> 500	PASS
BLE(1M) Mode					
Low	2402	0.73	2.09	> 500	PASS
Middle	2440	0.73	2.08	> 500	PASS
High	2480	0.73	2.09	> 500	PASS
BLE(2M) Mode					
Low	2402	1.39	2.09	> 500	PASS
Middle	2440	1.39	2.08	> 500	PASS
High	2480	1.39	2.09	> 500	PASS
Zigbee Mode					
Low	2405	1.65	2.24	> 500	PASS
Middle	2440	1.65	2.24	> 500	PASS
High	2480	1.64	2.25	> 500	PASS

Please refer to the following plots

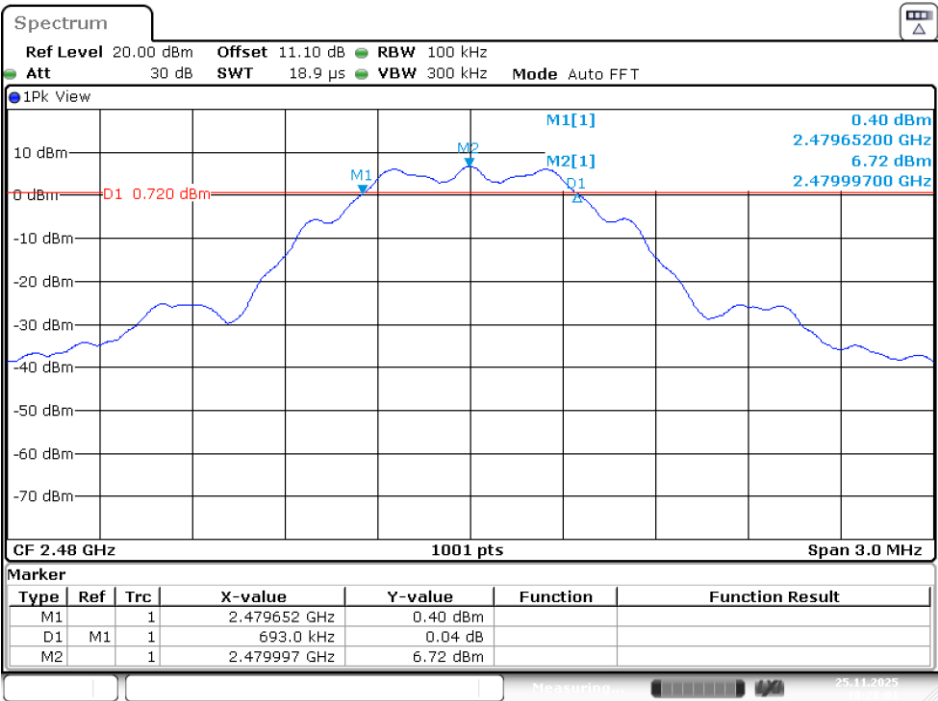
6 dB Emission Bandwidth
BLE(125k) Mode
Low Channel



Middle Channel

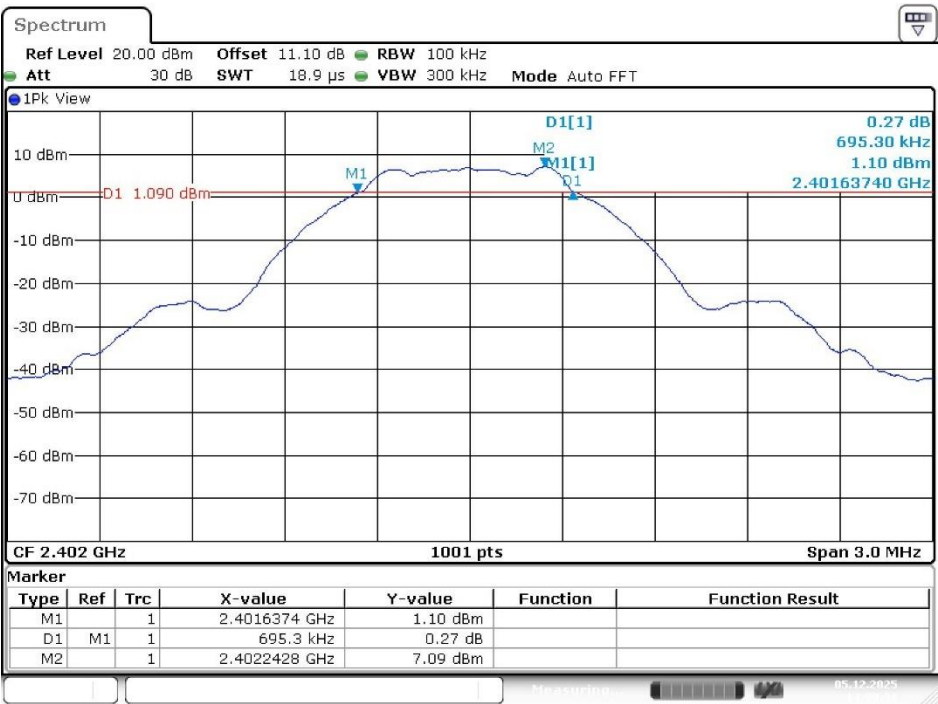


High Channel



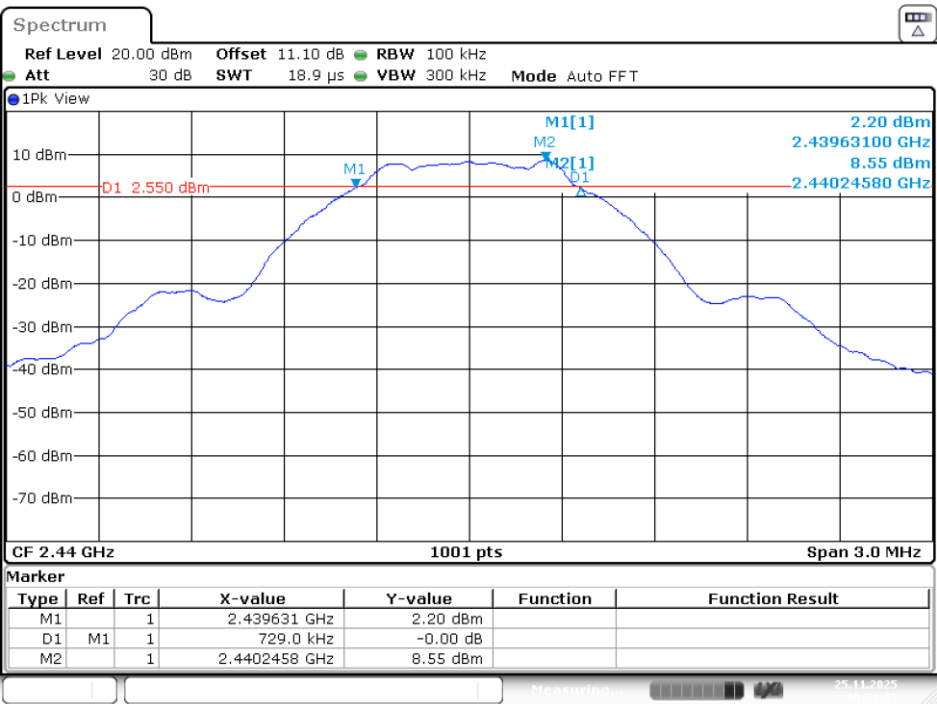
Date: 25.NOV.2025 10:28:01

BLE(500k) Mode
Low Channel



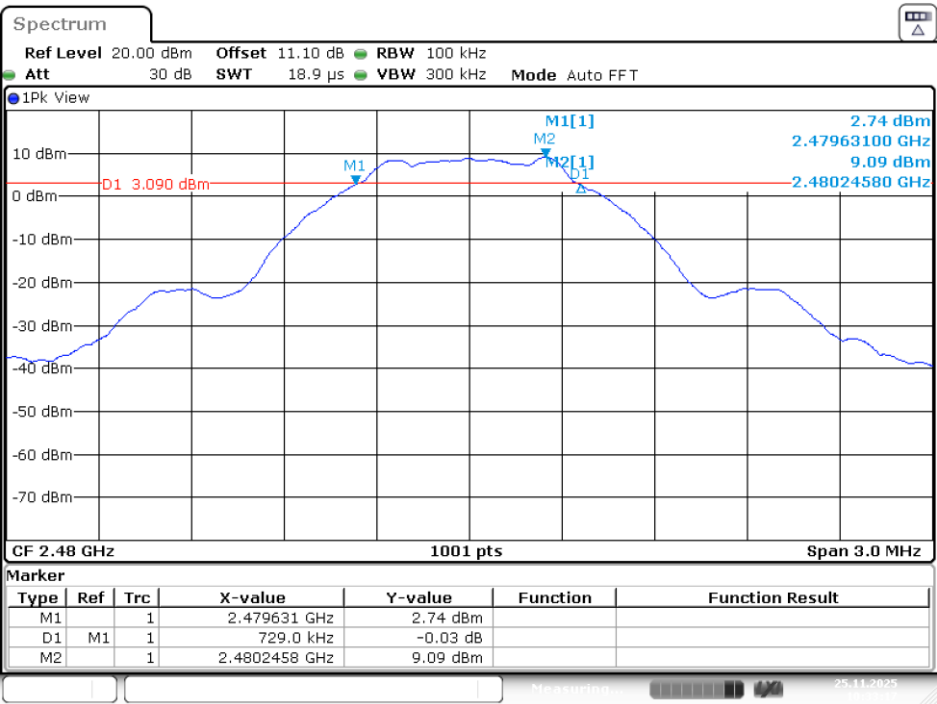
Date: 5.DEC.2025 14:00:38

Middle Channel



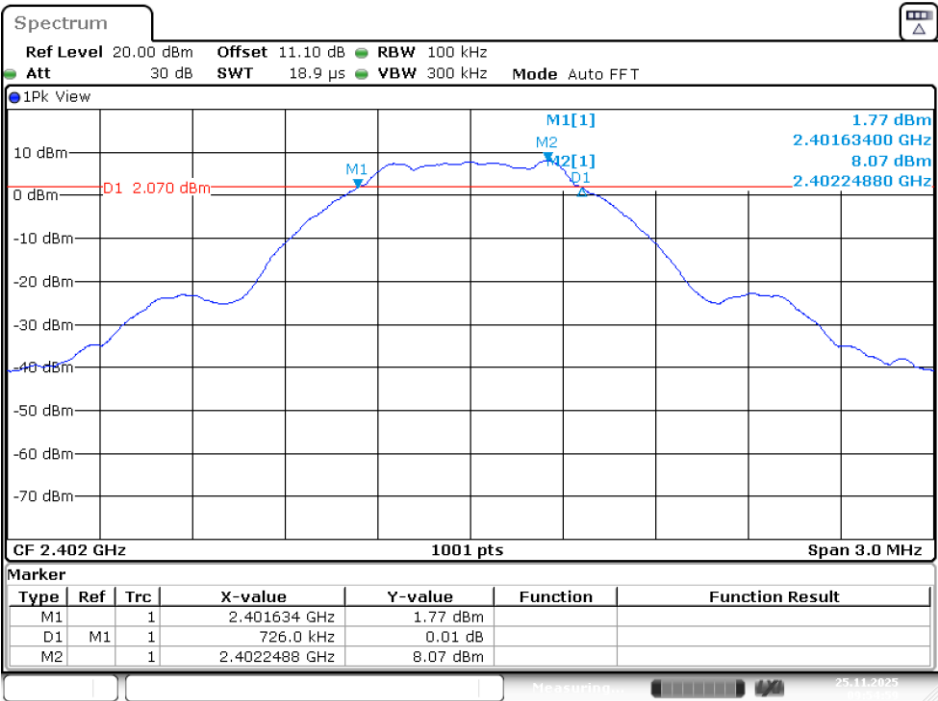
Date: 25.NOV.2025 10:31:25

High Channel



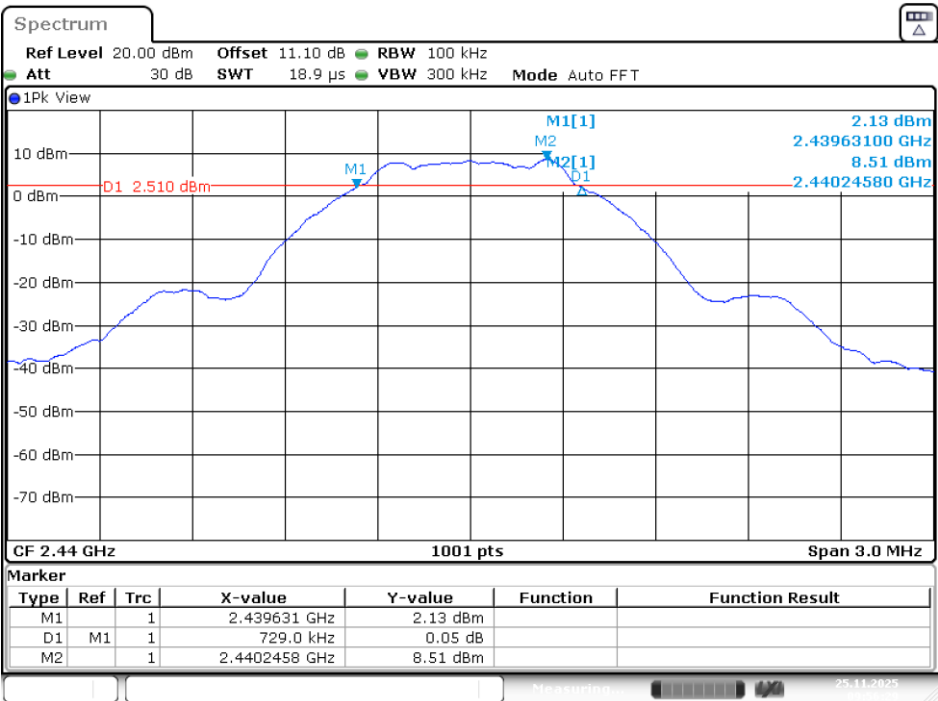
Date: 25.NOV.2025 10:33:17

BLE(1M) Mode
Low Channel



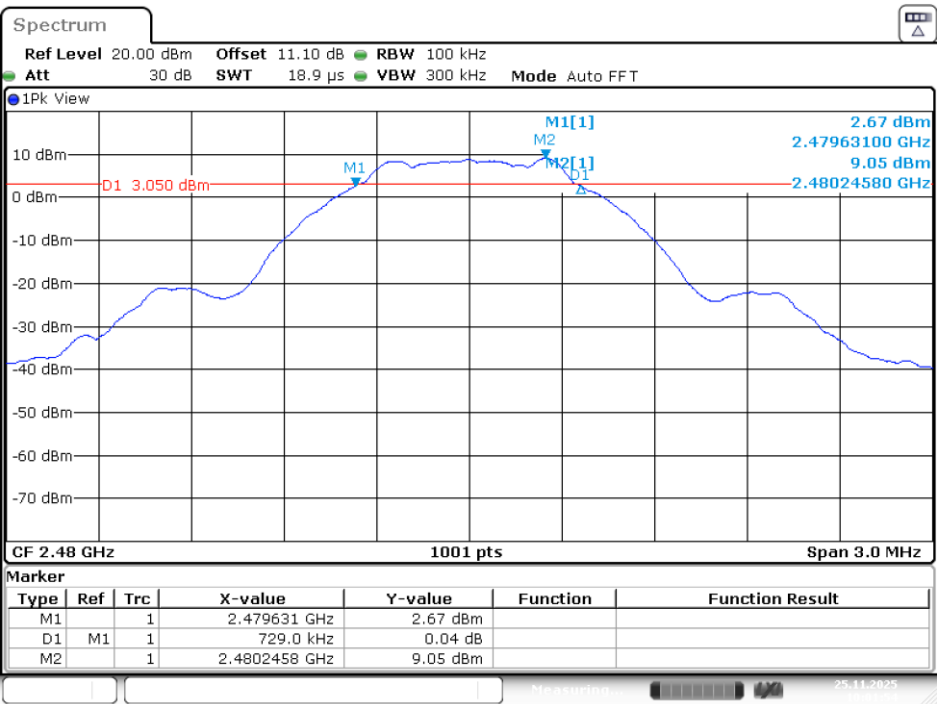
Date: 25.NOV.2025 09:54:59

Middle Channel



Date: 25.NOV.2025 09:56:29

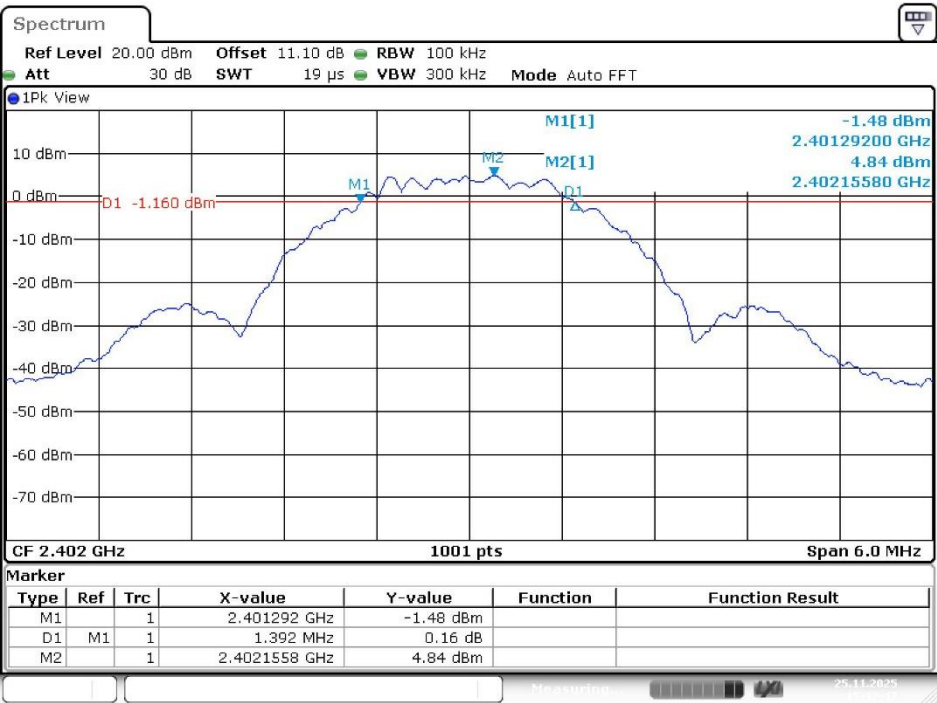
High Channel



Date: 25.NOV.2025 10:01:54

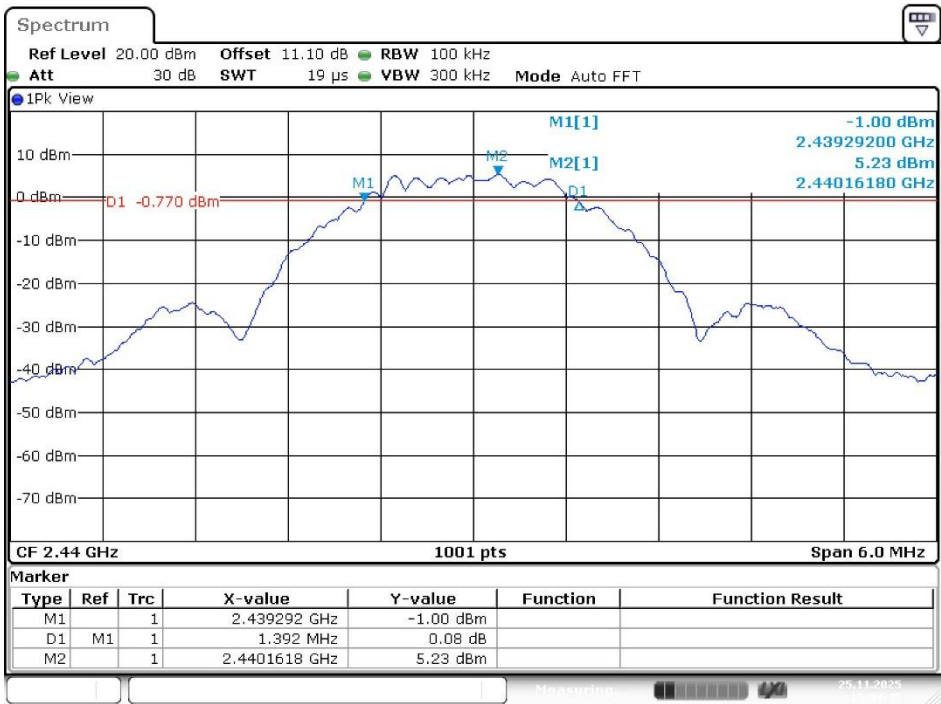
BLE(2M) Mode

Low Channel



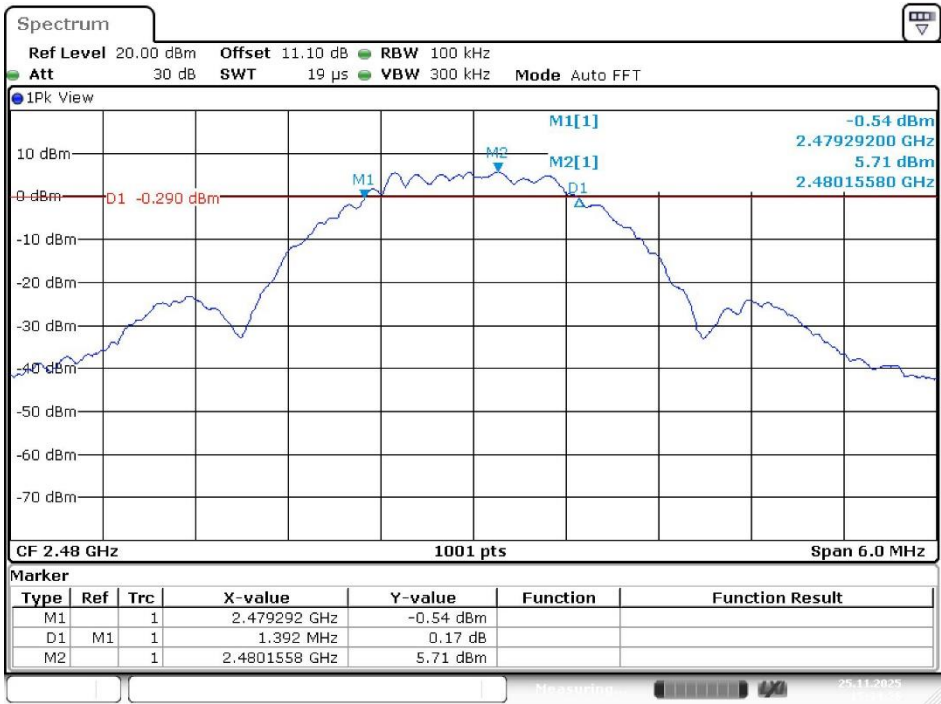
Date: 25.NOV.2025 15:32:47

Middle Channel



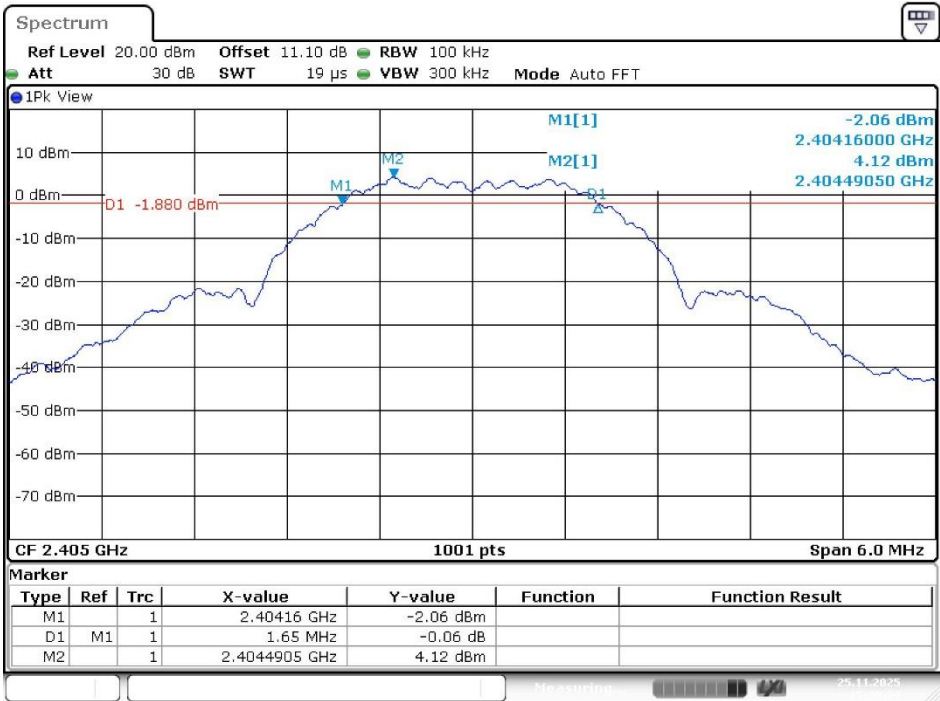
Date: 25.NOV.2025 15:33:45

High Channel



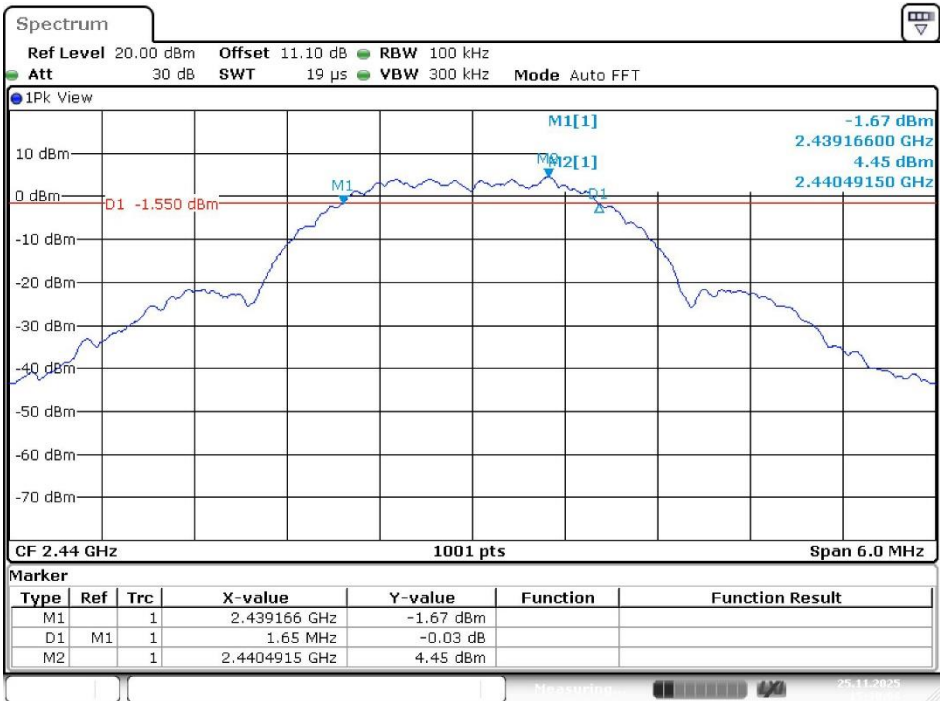
Date: 25.NOV.2025 15:34:26

Zigbee Mode
Low Channel



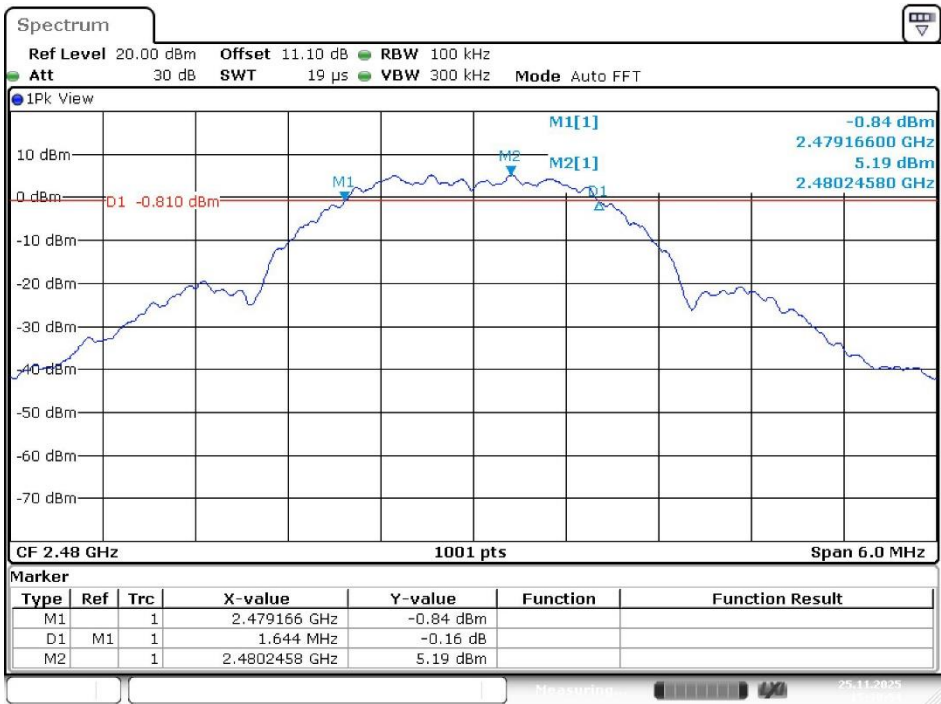
Date: 25.NOV.2025 15:29:29

Middle Channel



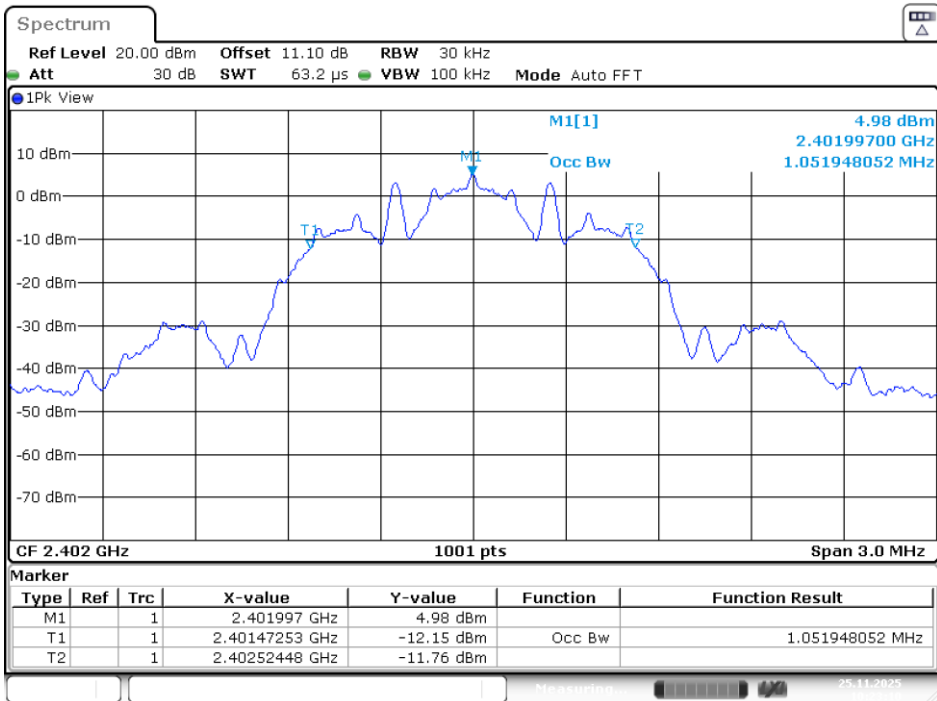
Date: 25.NOV.2025 15:30:08

High Channel



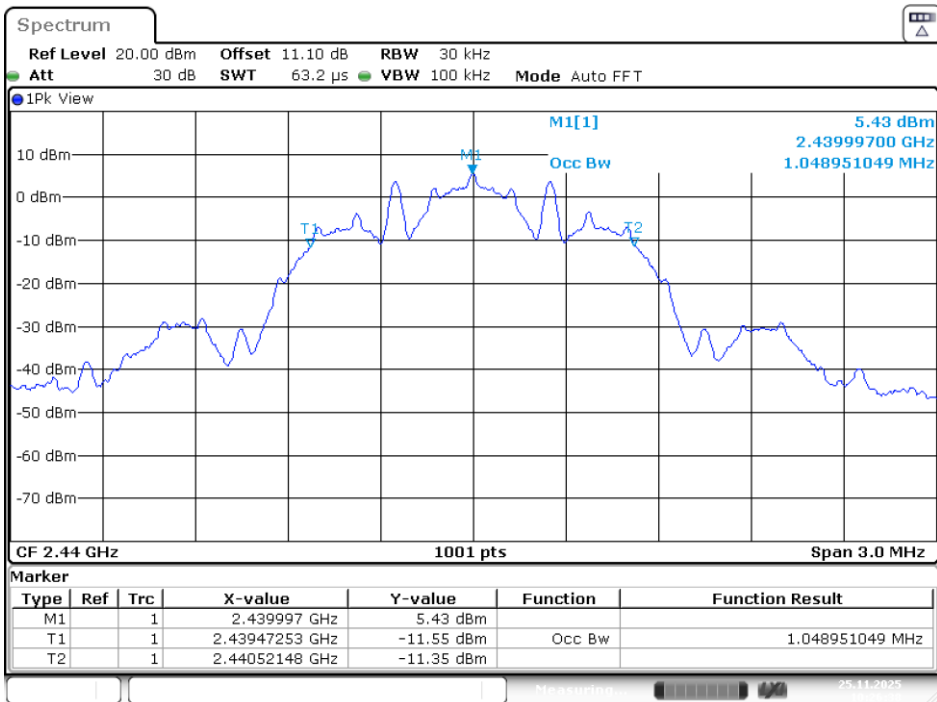
Date: 25.NOV.2025 15:30:54

99% Bandwidth
BLE(125k) Mode
Low Channel



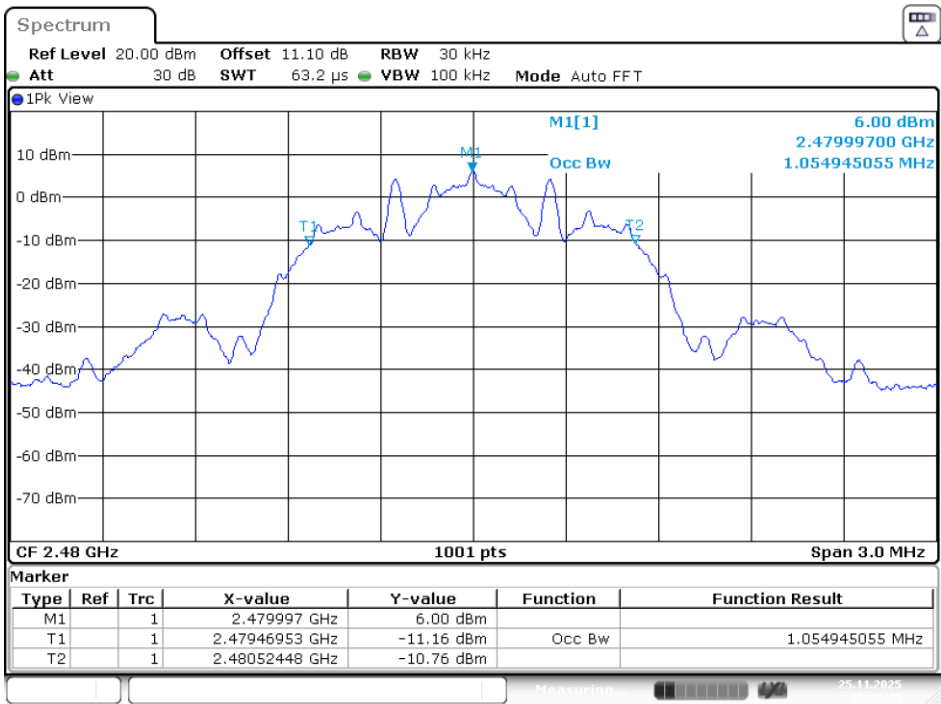
Date: 25.NOV.2025 10:23:10

Middle Channel



Date: 25.NOV.2025 10:26:38

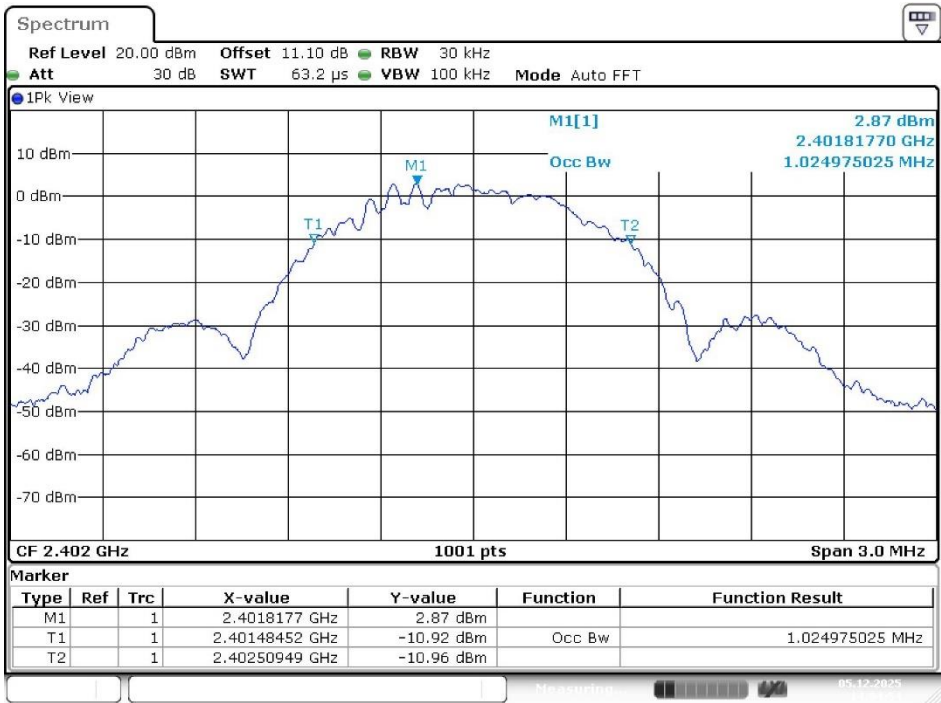
High Channel



Date: 25.NOV.2025 10:28:25

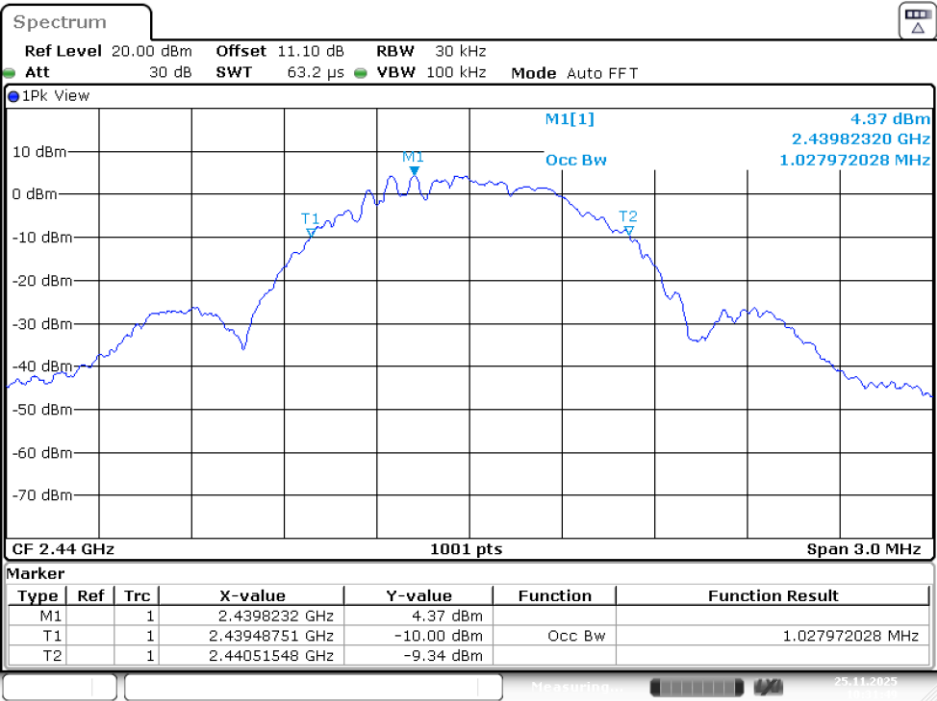
BLE(500k) Mode

Low Channel



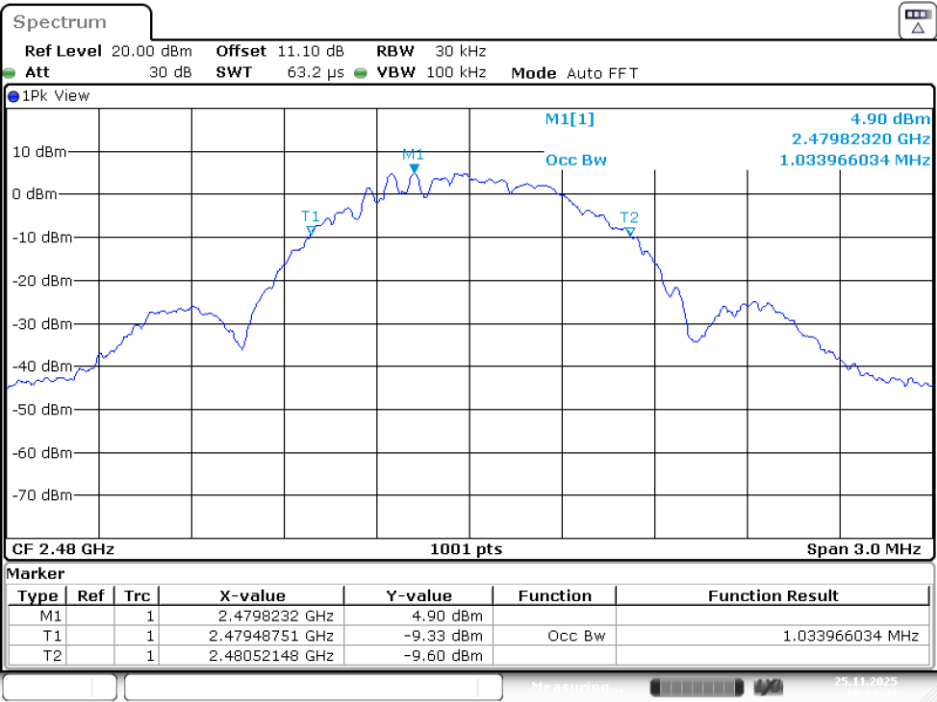
Date: 5.DEC.2025 14:04:54

Middle Channel



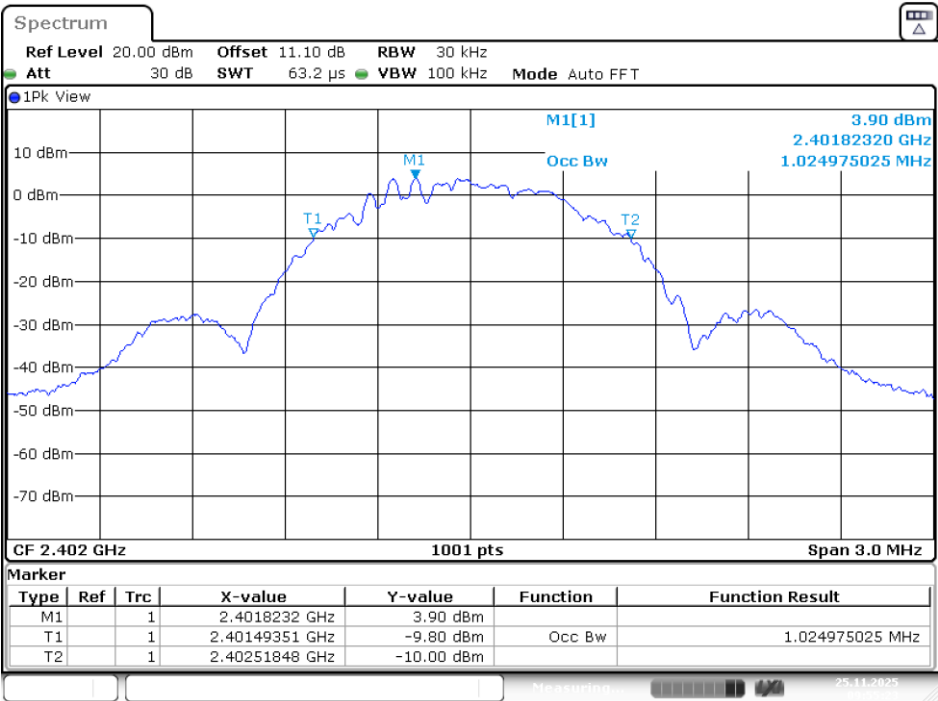
Date: 25.NOV.2025 10:31:50

High Channel



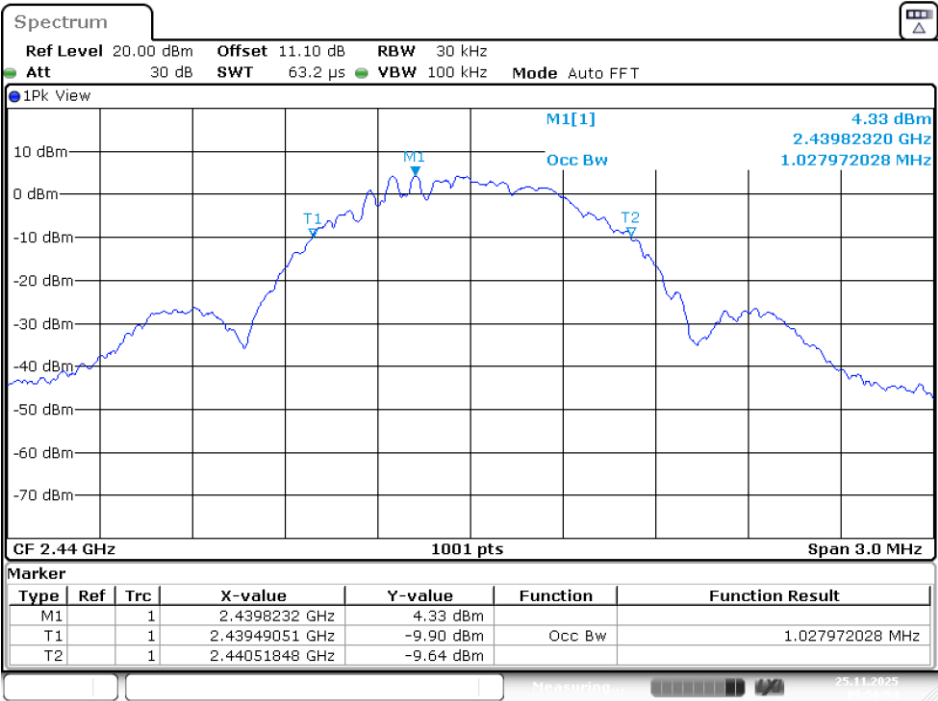
Date: 25.NOV.2025 10:33:42

BLE(1M) Mode
Low Channel



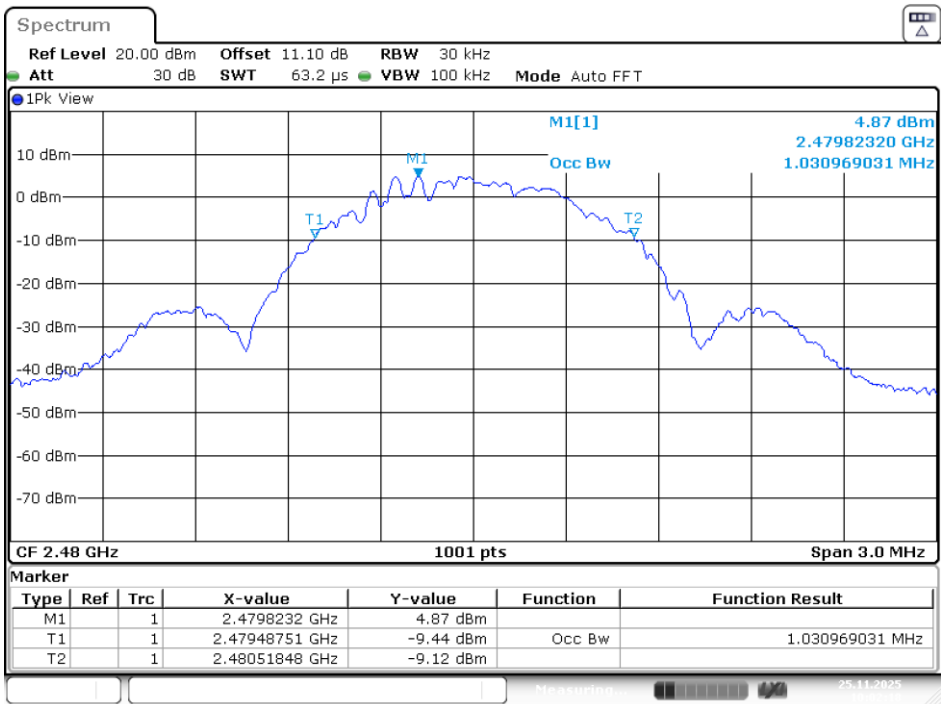
Date: 25.NOV.2025 09:55:23

Middle Channel



Date: 25.NOV.2025 09:56:54

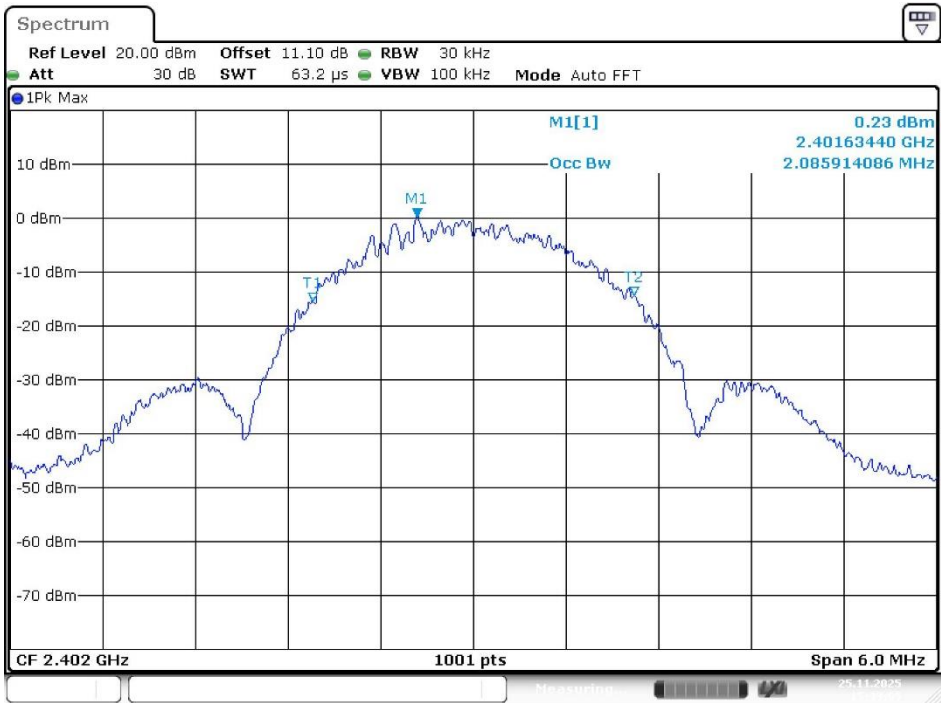
High Channel



Date: 25.NOV.2025 10:02:18

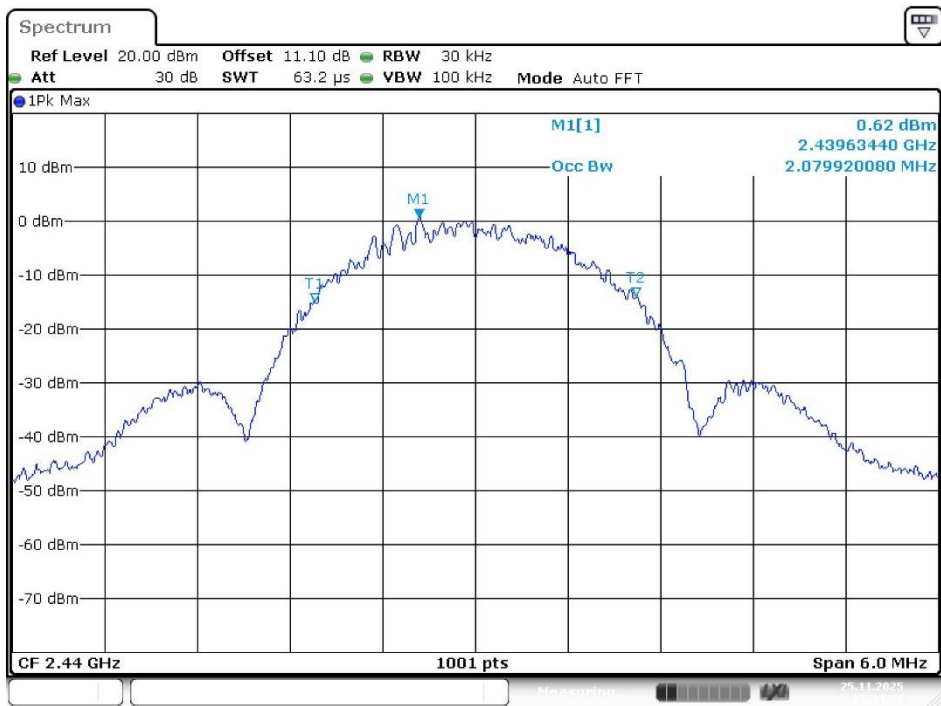
BLE(2M) Mode

Low Channel



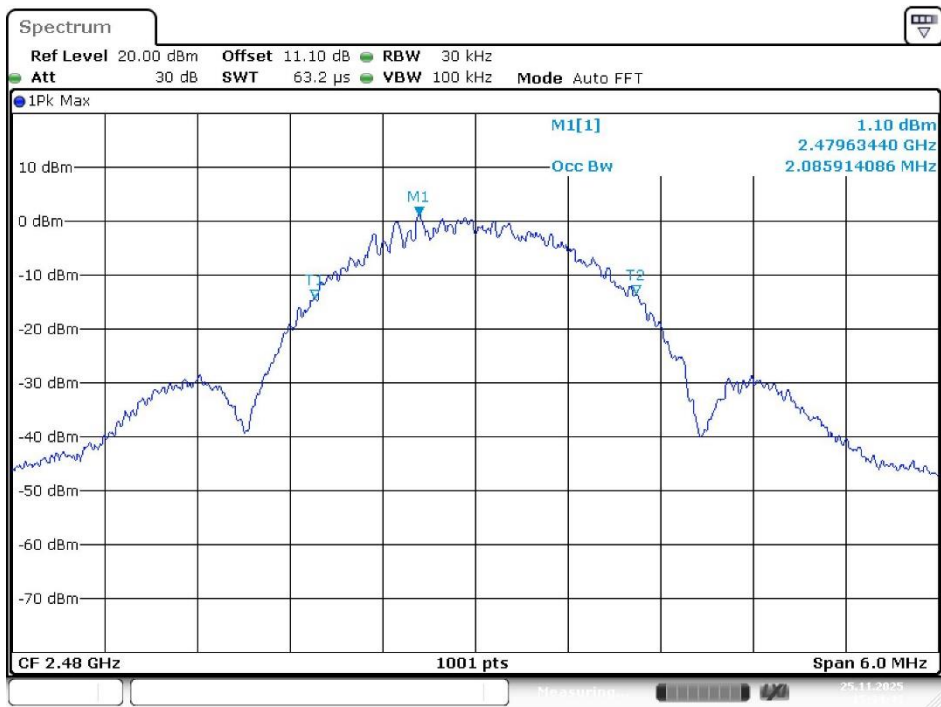
Date: 25.NOV.2025 15:33:05

Middle Channel



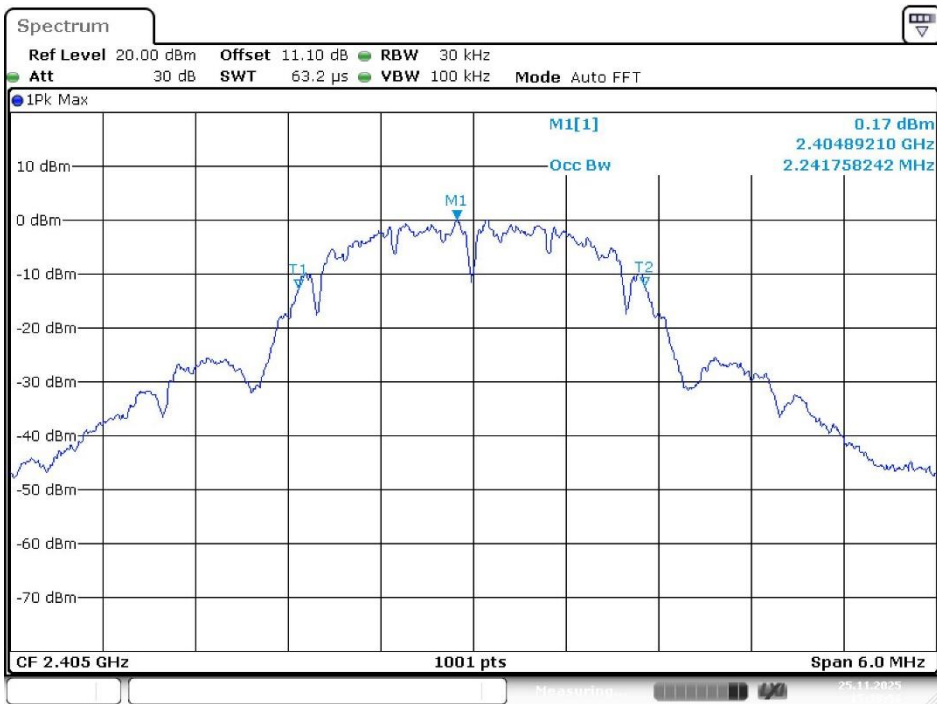
Date: 25.NOV.2025 15:34:00

High Channel



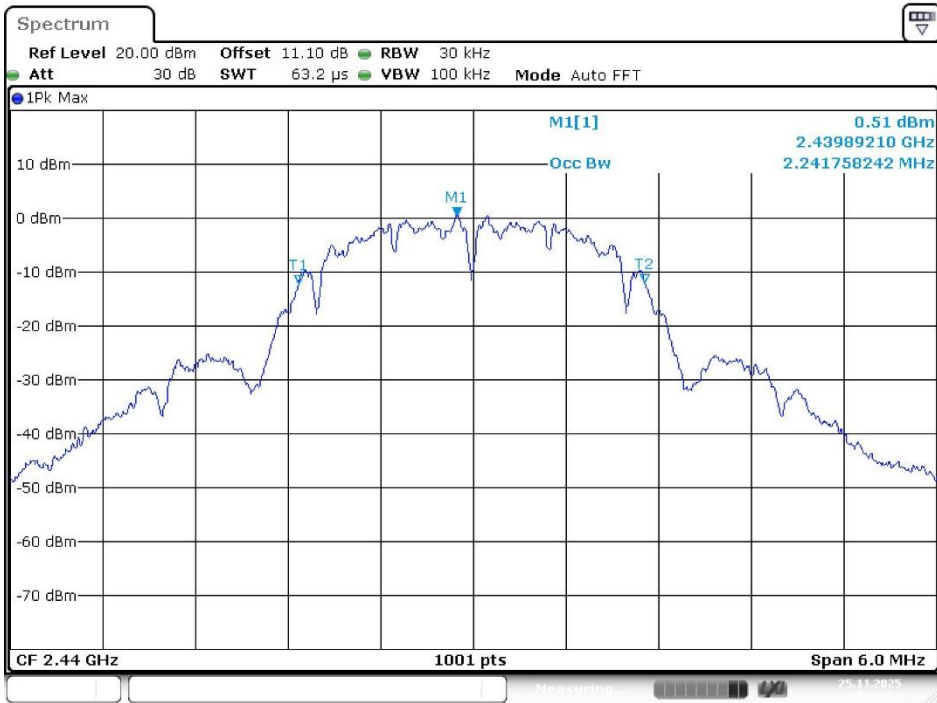
Date: 25.NOV.2025 15:34:43

Zigbee Mode
Low Channel



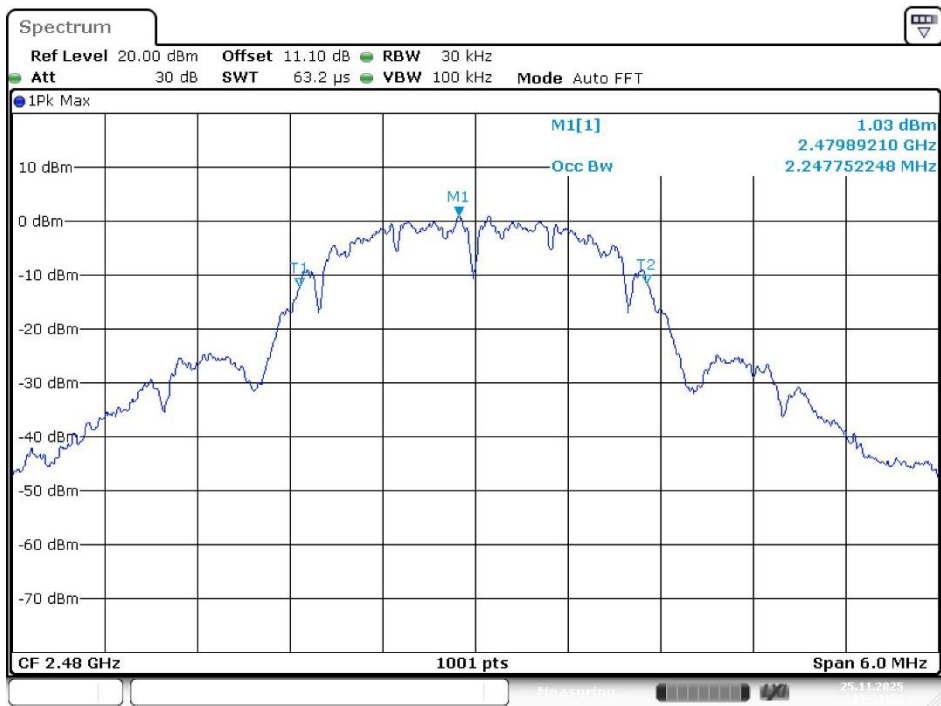
Date: 25.NOV.2025 15:28:58

Middle Channel



Date: 25.NOV.2025 15:30:21

High Channel



Date: 25.NOV.2025 15:31:22

9 FCC §15.247(b)(3) & RSS-247 §5.4(d) – Maximum Output Power

11.1 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.

According to RSS-247 §5.4(d).

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

11.2 Test Procedure

According to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024, section 11.9.1.3

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.

11.3 Test Results**Conducted Peak Output Power****Main 44229669594:**

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Avg Output Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
BLE(125k) Mode							
Low	2402	8.83	8.76	30	2.20	11.030	36
Middle	2440	9.35	9.30	30	2.20	11.550	36
High	2480	9.82	9.77	30	2.20	12.020	36
BLE(500k) Mode							
Low	2402	8.84	8.79	30	2.20	11.040	36
Middle	2440	9.34	9.30	30	2.20	11.540	36
High	2480	9.83	9.79	30	2.20	12.030	36
BLE(1M) Mode							
Low	2402	8.75	8.70	30	2.20	10.950	36
Middle	2440	9.34	9.28	30	2.20	11.540	36
High	2480	9.80	9.76	30	2.20	12.000	36
BLE(2M) Mode							
Low	2402	8.82	8.77	30	2.20	11.020	36
Middle	2440	9.33	9.28	30	2.20	11.530	36
High	2480	9.81	9.73	30	2.20	12.010	36
Zigbee Mode							
Low	2405	8.82	8.76	30	2.20	11.020	36
Middle	2440	9.26	9.21	30	2.20	11.460	36
High	2480	9.74	9.69	30	2.20	11.940	36

Series 44229669593:

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Avg Output Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
BLE(125k) Mode							
Low	2402	8.15	8.09	30	2.20	10.350	36
Middle	2440	8.50	8.44	30	2.20	10.700	36
High	2480	9.06	9.01	30	2.20	11.260	36
BLE(500k) Mode							
Low	2402	8.14	8.08	30	2.20	10.340	36
Middle	2440	8.57	8.51	30	2.20	10.770	36
High	2480	9.05	9.00	30	2.20	11.250	36
BLE(1M) Mode							
Low	2402	8.09	8.02	30	2.20	10.290	36
Middle	2440	8.51	8.44	30	2.20	10.710	36
High	2480	9.05	9.01	30	2.20	11.260	36
BLE(2M) Mode							
Low	2402	8.15	8.09	30	2.20	10.350	36
Middle	2440	8.58	8.52	30	2.20	10.780	36
High	2480	8.98	8.92	30	2.20	11.180	36
Zigbee Mode							
Low	2405	8.29	7.92	30	2.20	10.490	36
Middle	2440	8.77	8.39	30	2.20	10.970	36
High	2480	9.08	8.88	30	2.20	11.280	36

10 FCC §15.247(d) & RSS-247 §5.5 – 100 kHz Bandwidth of Frequency Band Edge

12.1 Applicable Standard

According to FCC §15.247(d).

In any 100 kHz 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 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, 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 30 dB instead of 20 dB. 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)).

According to RSS-247 §5.5.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

12.2 Test Procedure

According to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 11.11

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

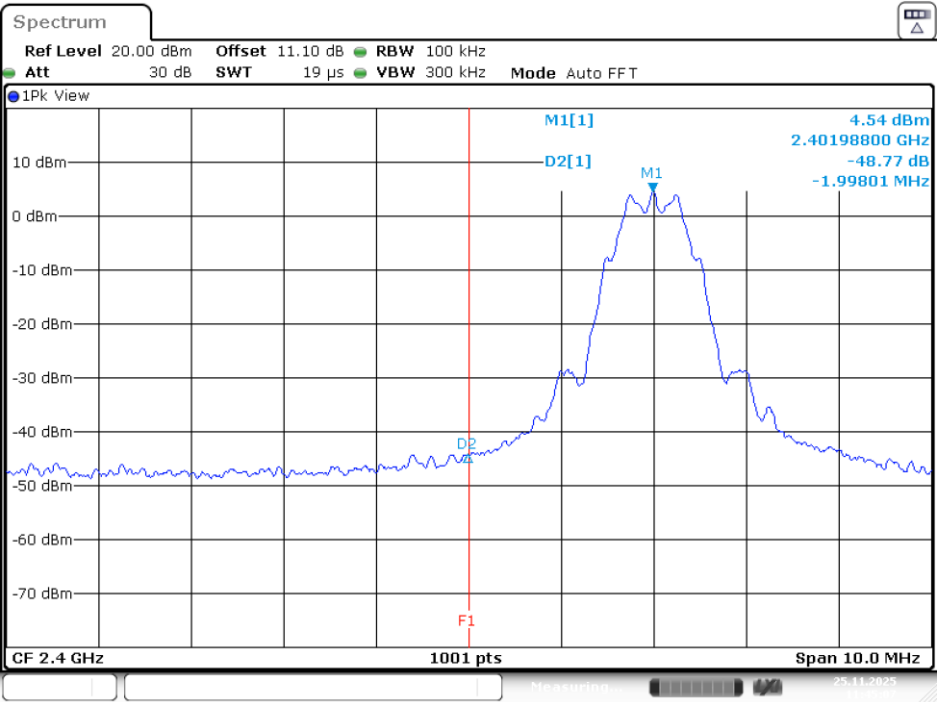
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

12.3 Test Results**Main 44229669594:**

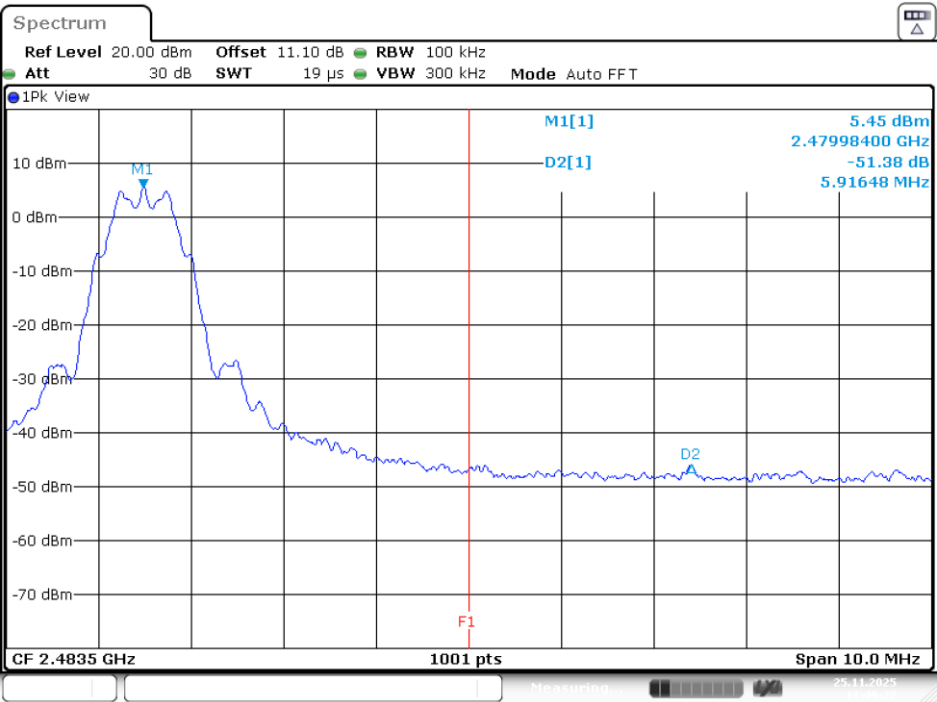
Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(125k) Mode				
Low	2402	48.77	≥ 20	PASS
High	2480	51.38	≥ 20	PASS
BLE(500k) Mode				
Low	2402	49.04	≥ 20	PASS
High	2480	53.72	≥ 20	PASS
BLE(1M) Mode				
Low	2402	51.51	≥ 20	PASS
High	2480	54.40	≥ 20	PASS
BLE(2M) Mode				
Low	2402	29.61	≥ 20	PASS
High	2480	46.53	≥ 20	PASS
Zigbee Mode				
Low	2405	50.78	≥ 20	PASS
High	2480	48.28	≥ 20	PASS

Please refer to the following plots

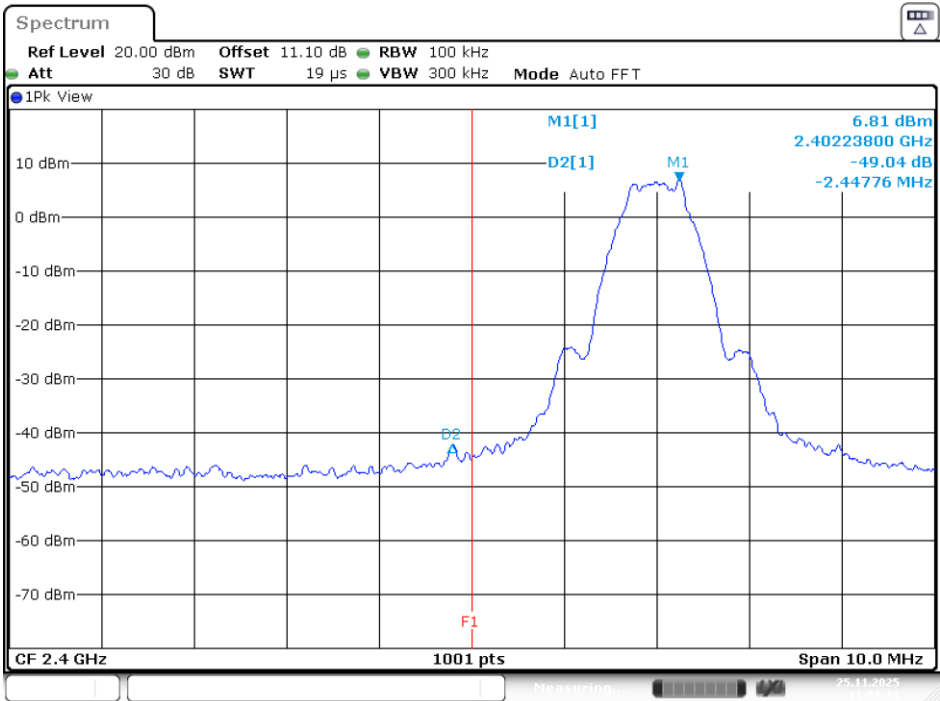
BLE(125k) Mode
Band Edge, Low Channel



Band Edge, High Channel

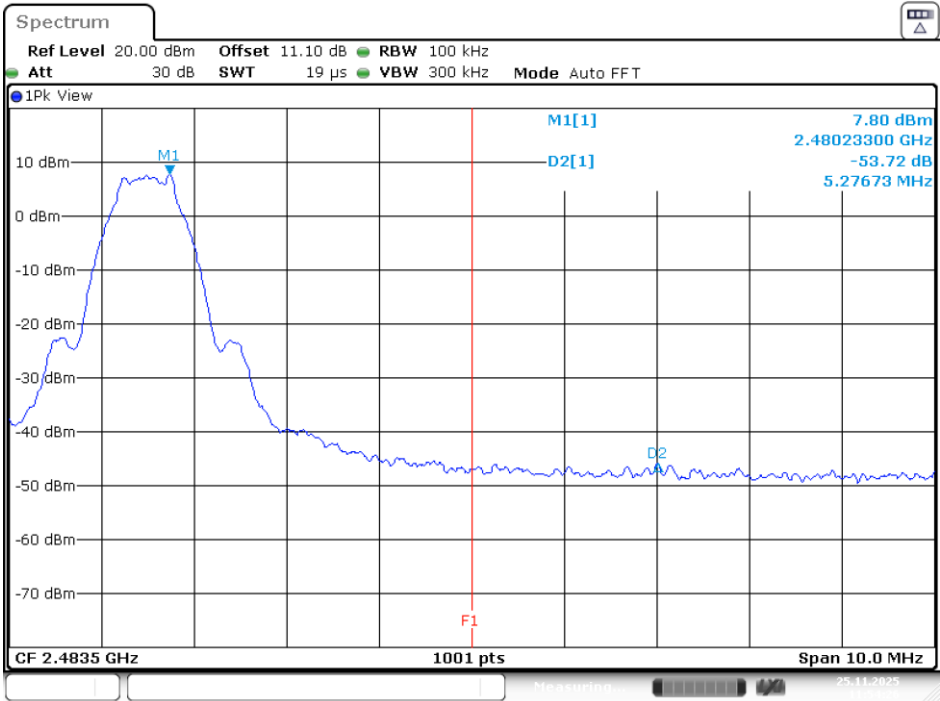


BLE(500k) Mode
Band Edge, Low Channel



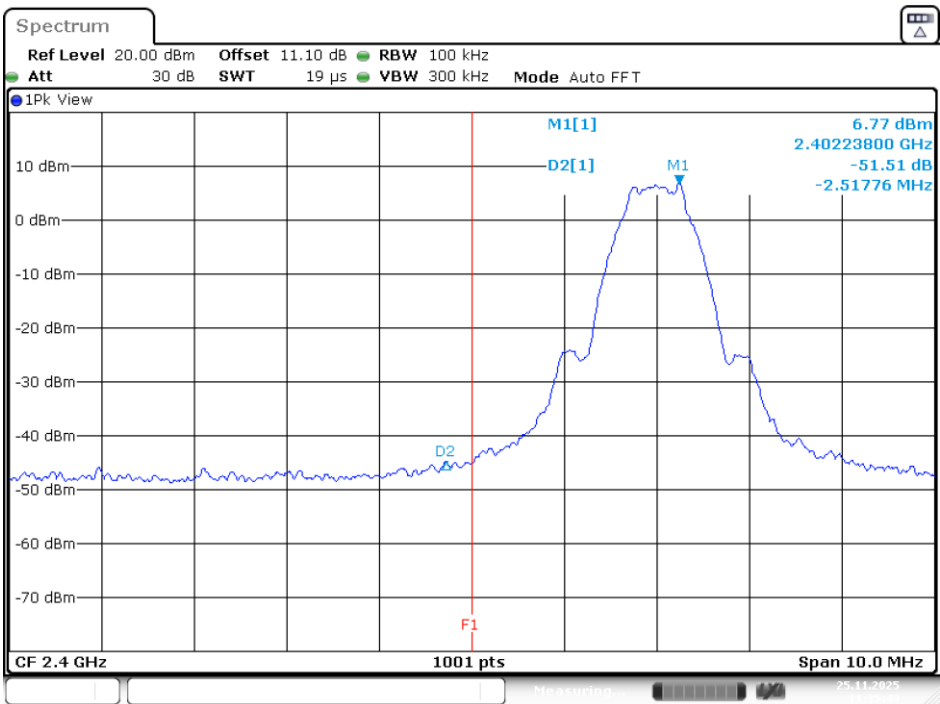
Date: 25.NOV.2025 11:51:11

Band Edge, High Channel

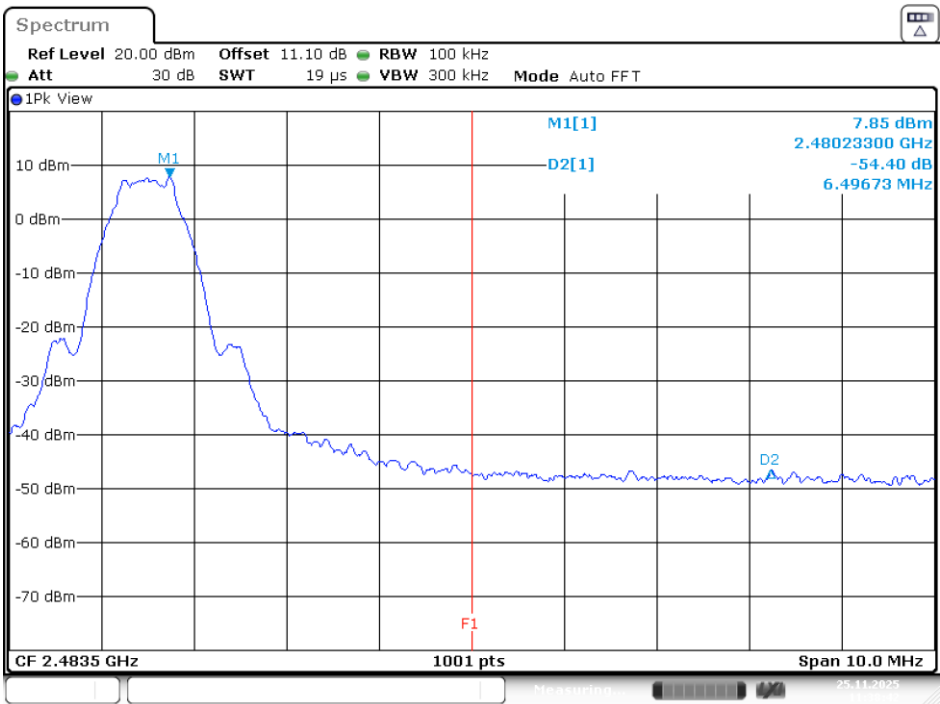


Date: 25.NOV.2025 11:54:27

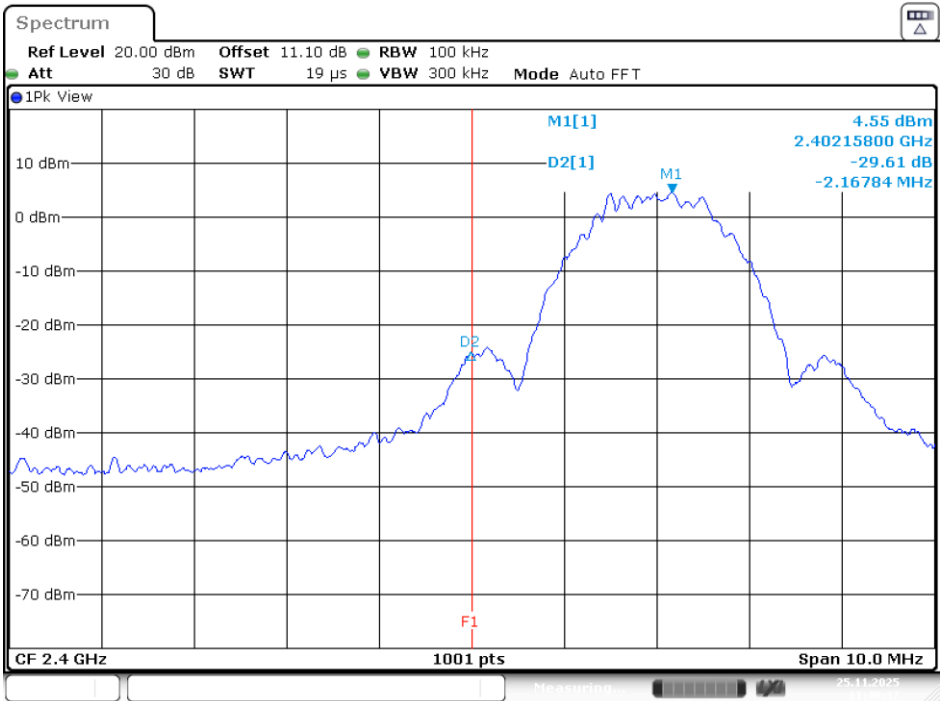
BLE(1M) Mode
Band Edge, Low Channel



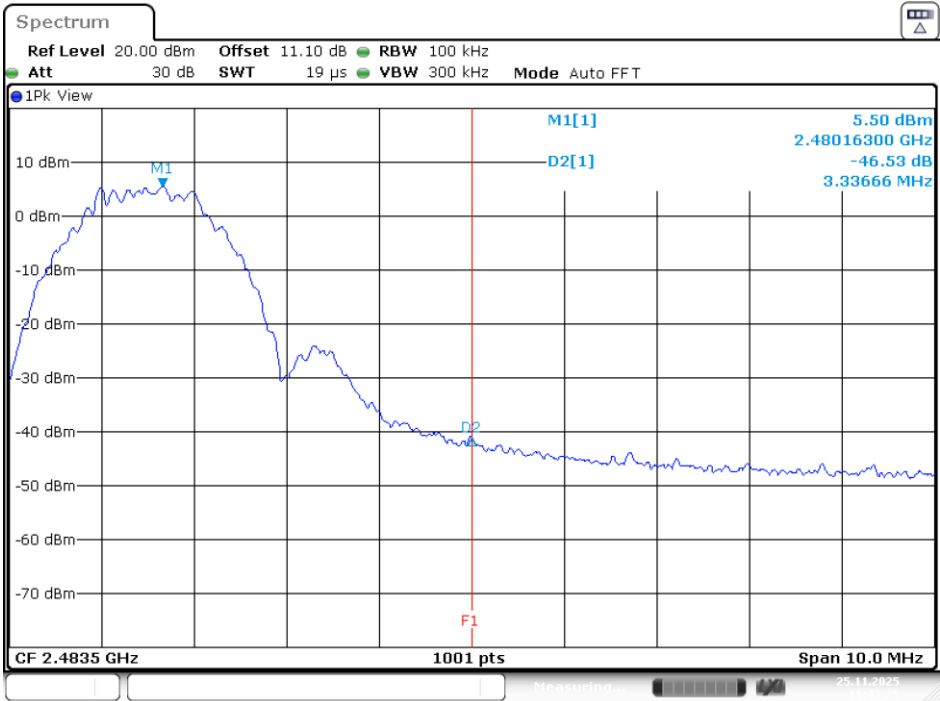
Band Edge, High Channel



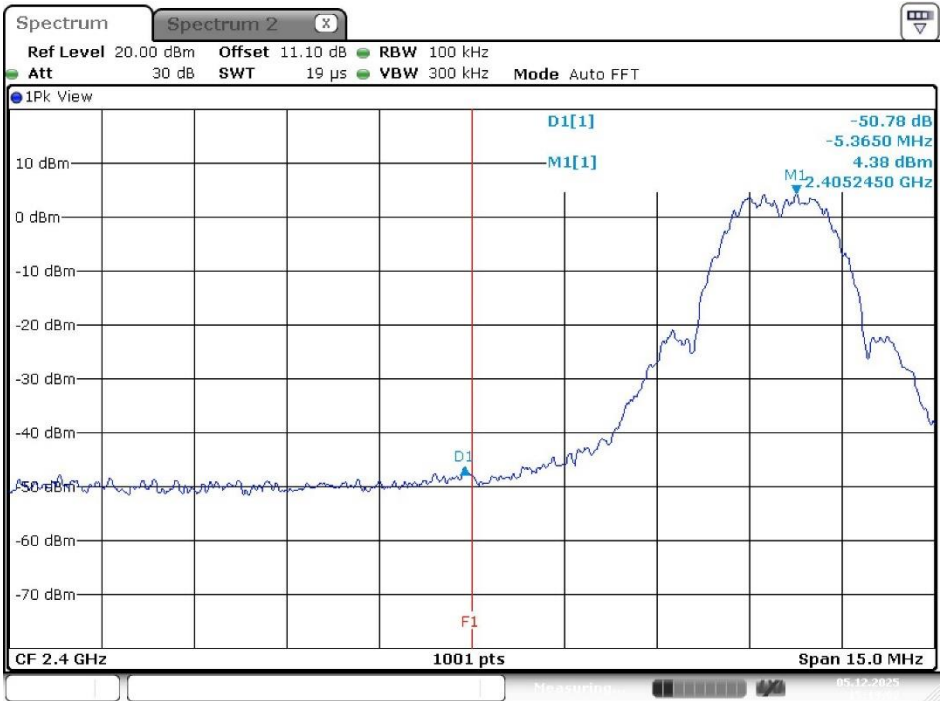
BLE(2M) Mode
Band Edge, Low Channel



Band Edge, High Channel

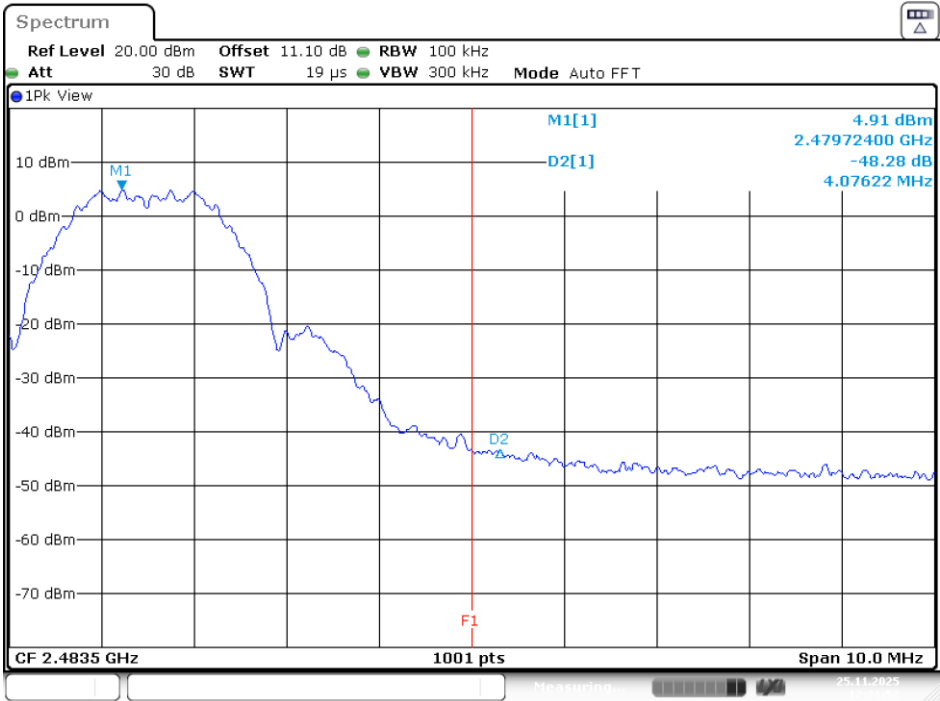


Zigbee Mode
Band Edge, Low Channel



Date: 5.DEC.2025 15:13:02

Band Edge, High Channel



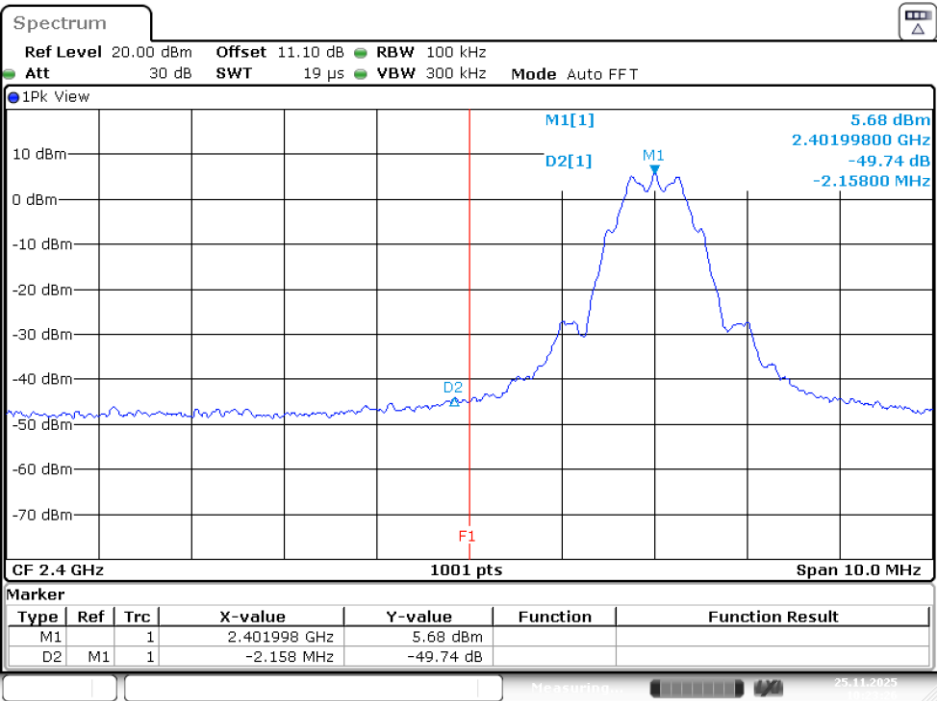
Date: 25.NOV.2025 12:21:53

Series 44229669593:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(125k) Mode				
Low	2402	49.74	≥ 20	PASS
High	2480	52.94	≥ 20	PASS
BLE(500k) Mode				
Low	2402	50.18	≥ 20	PASS
High	2480	55.18	≥ 20	PASS
BLE(1M) Mode				
Low	2402	52.06	≥ 20	PASS
High	2480	54.58	≥ 20	PASS
BLE(2M) Mode				
Low	2402	30.50	≥ 20	PASS
High	2480	47.94	≥ 20	PASS
Zigbee Mode				
Low	2405	51.47	≥ 20	PASS
High	2480	48.88	≥ 20	PASS

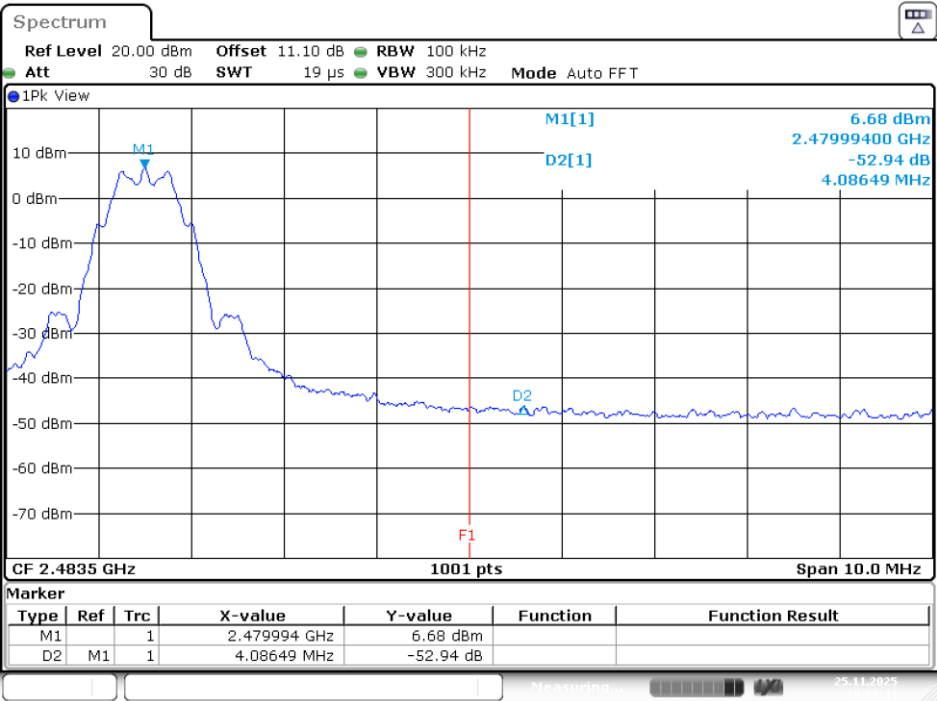
Please refer to the following plots

BLE(125k) Mode
Band Edge, Low Channel



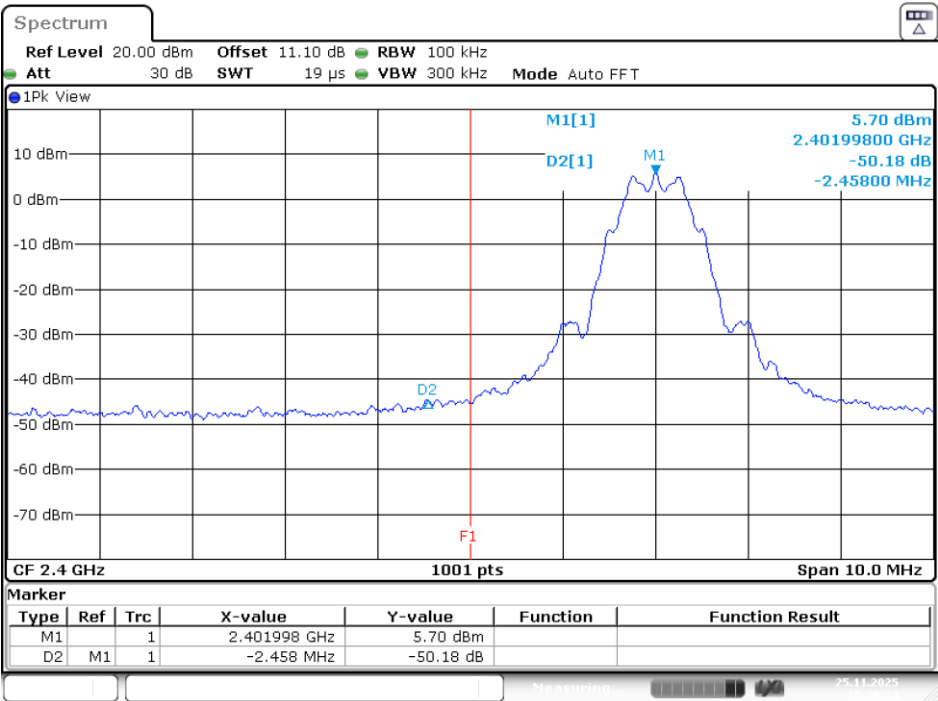
Date: 25.NOV.2025 10:23:26

Band Edge, High Channel



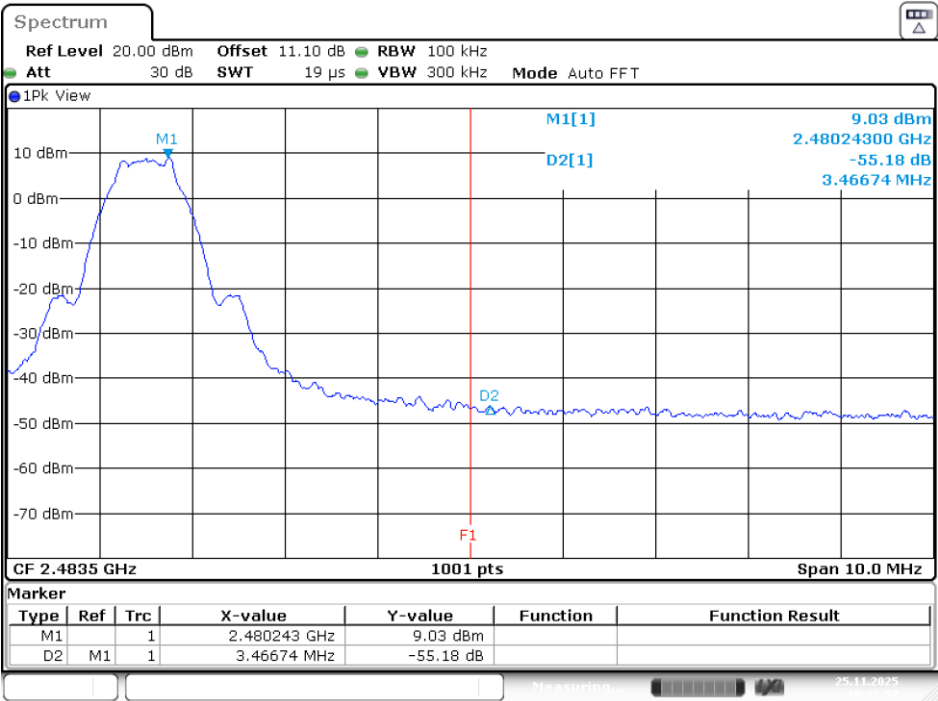
Date: 25.NOV.2025 10:28:41

BLE(500k) Mode
Band Edge, Low Channel



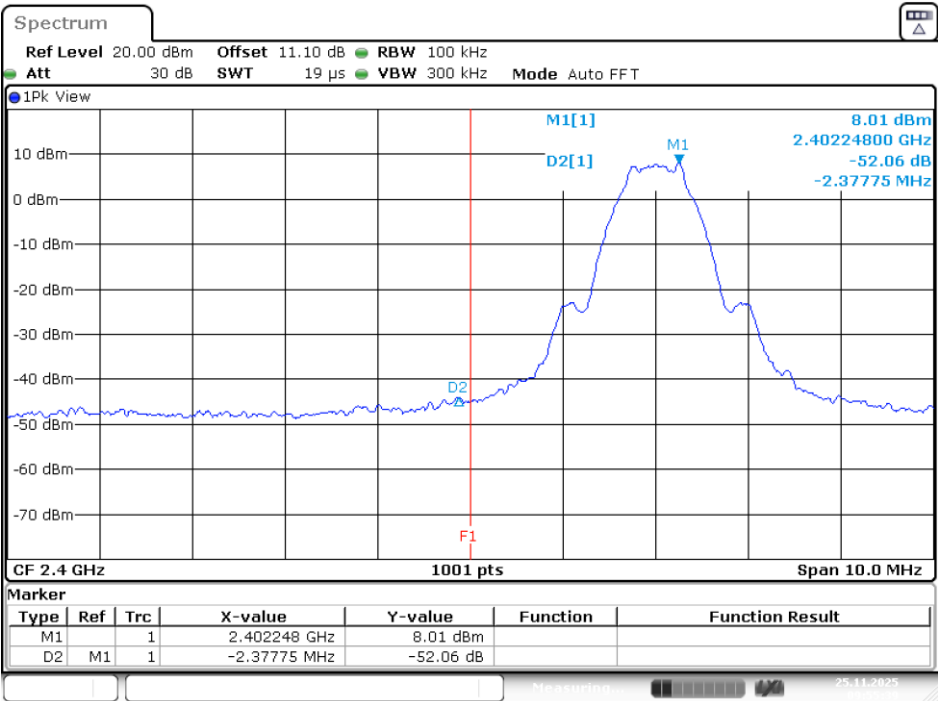
Date: 25.NOV.2025 10:30:34

Band Edge, High Channel



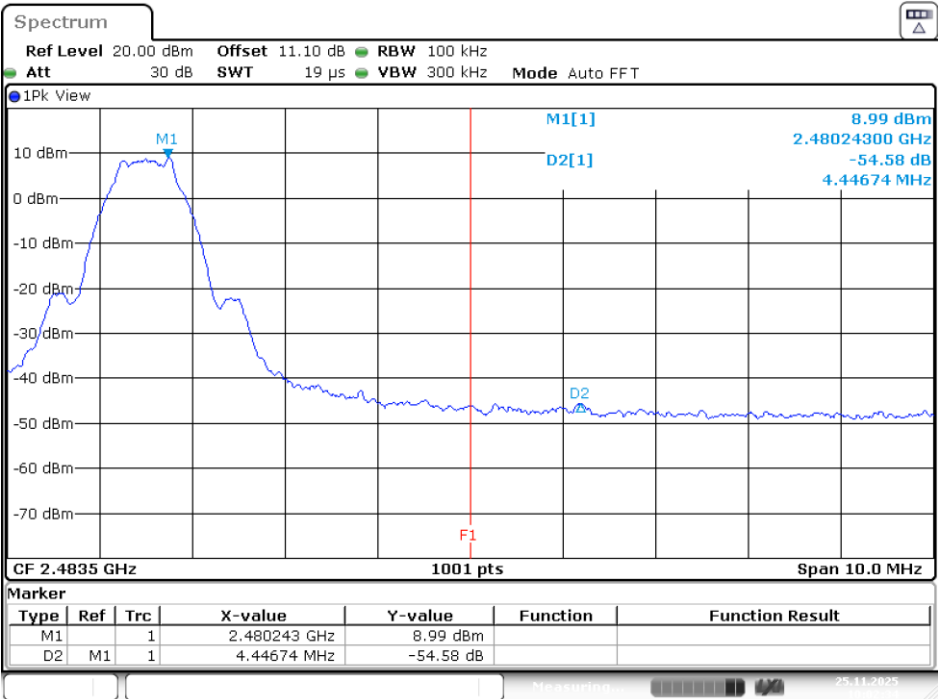
Date: 25.NOV.2025 10:33:58

BLE(1M) Mode
Band Edge, Low Channel



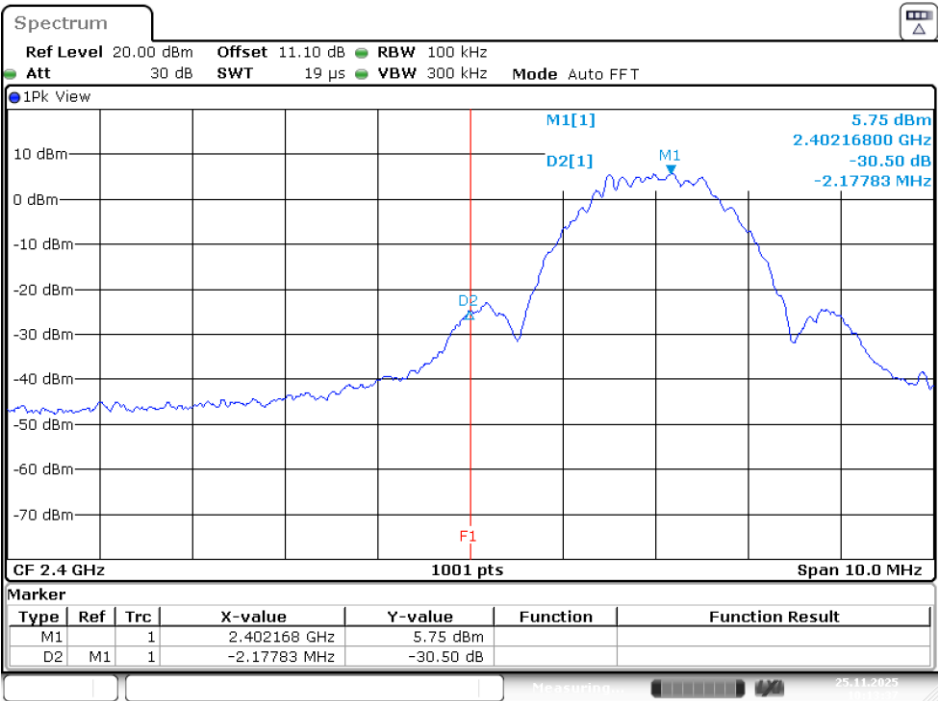
Date: 25.NOV.2025 09:55:39

Band Edge, High Channel



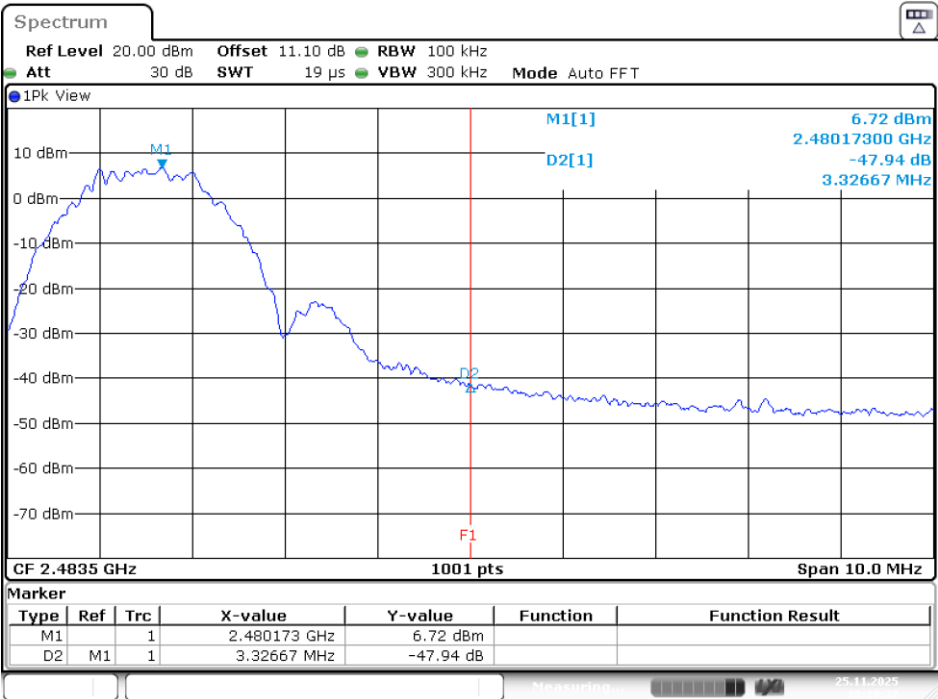
Date: 25.NOV.2025 10:02:34

BLE(2M) Mode
Band Edge, Low Channel



Date: 25.NOV.2025 10:13:37

Band Edge, High Channel



Date: 25.NOV.2025 10:19:32