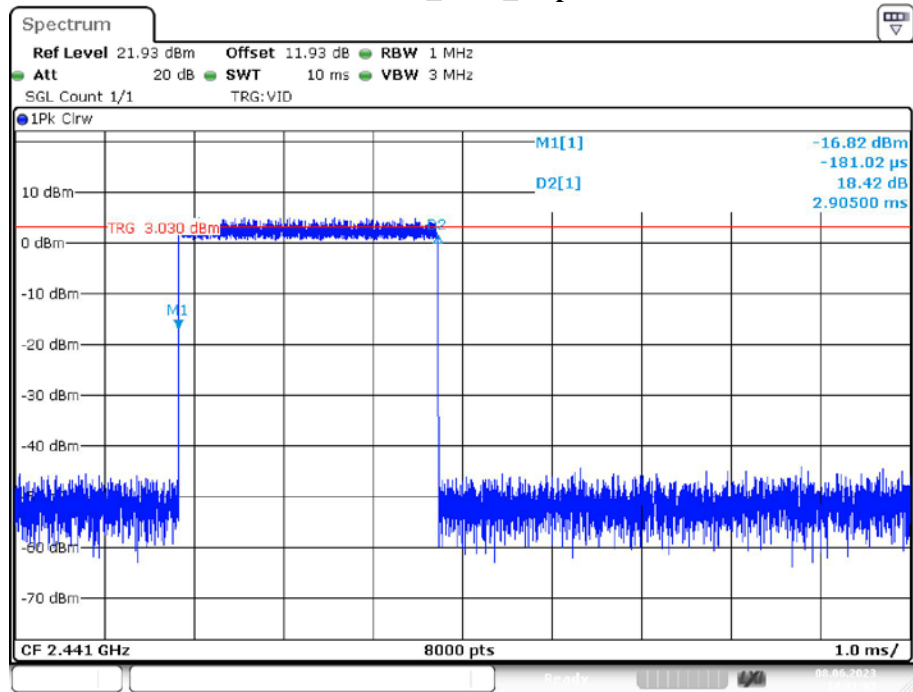
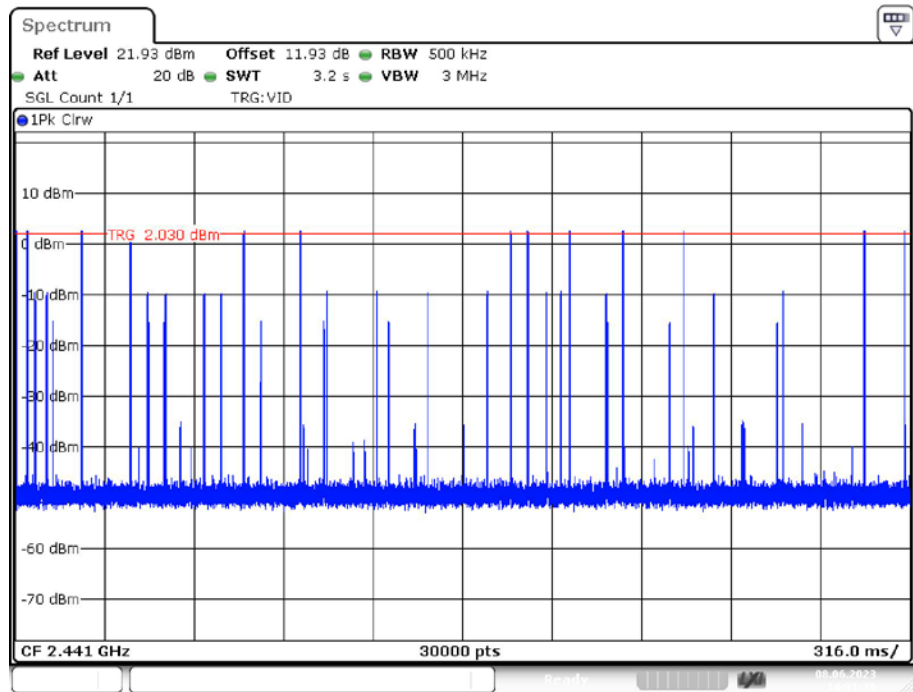


3DH5_Ant1_Hop



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FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

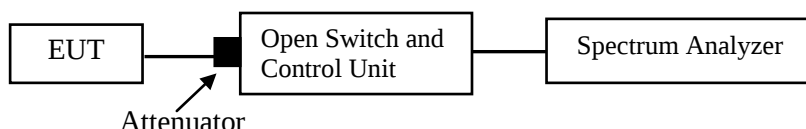
Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

According to ANSI C63.10-2013, section 7.8.5

1. Place the EUT on a bench and set in TX mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25°C
Relative Humidity:	48%
ATM Pressure:	101.0kPa

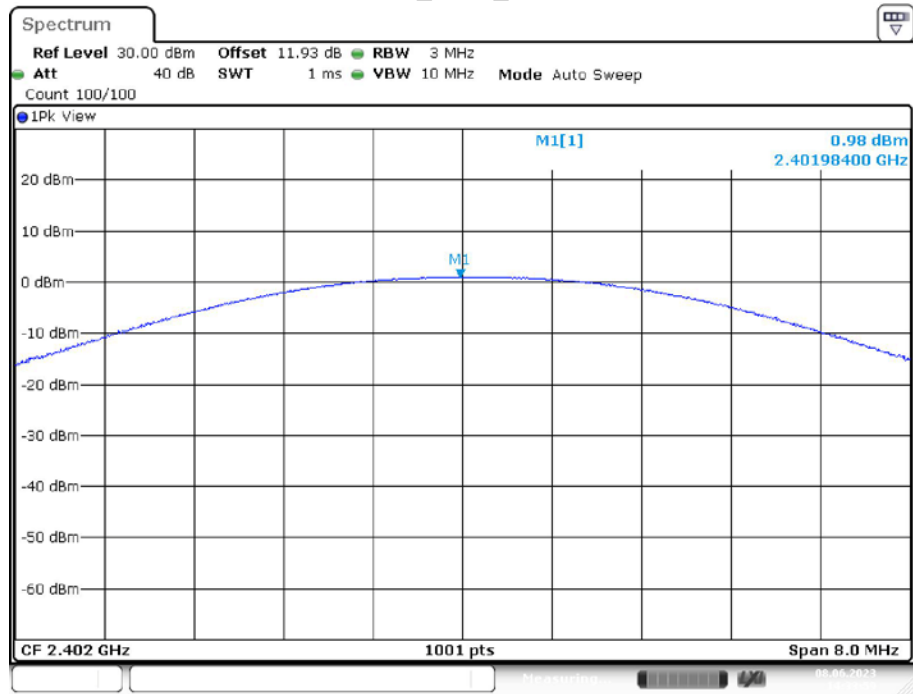
The testing was performed by Matt Liang on 2023-06-08.

EUT operation mode: Transmitting

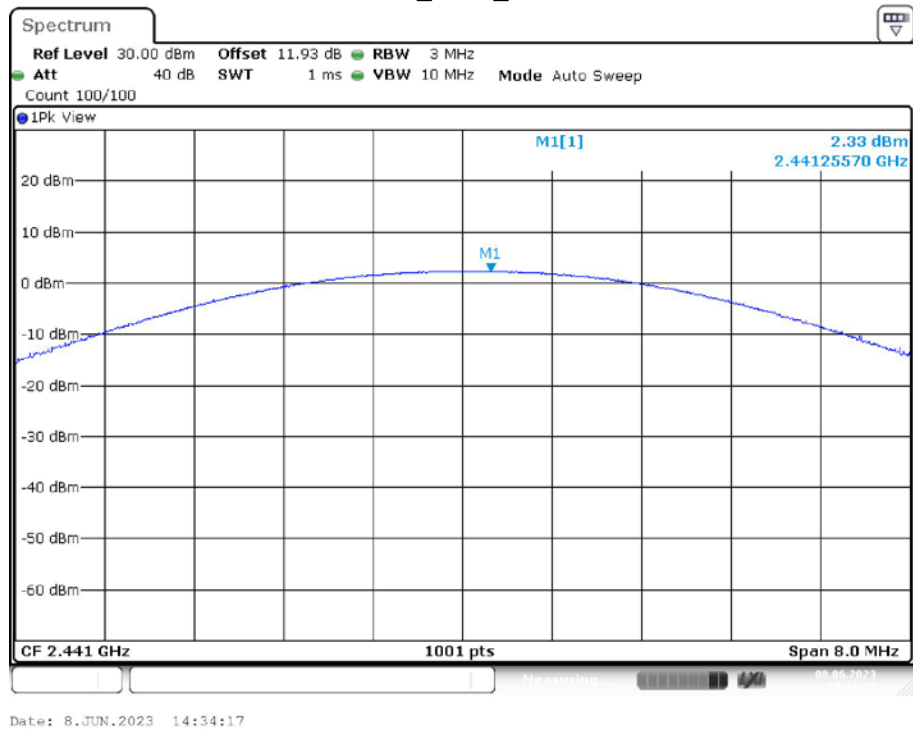
Test Result: Compliant. Please refer to the below table and plots:

Test Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.98	≤20.97	PASS
		2441	2.33	≤20.97	PASS
		2480	2.54	≤20.97	PASS
2DH5	Ant1	2402	3.69	≤20.97	PASS
		2441	5.15	≤20.97	PASS
		2480	5.25	≤20.97	PASS
3DH5	Ant1	2402	4.47	≤20.97	PASS
		2441	5.94	≤20.97	PASS
		2480	6.02	≤20.97	PASS

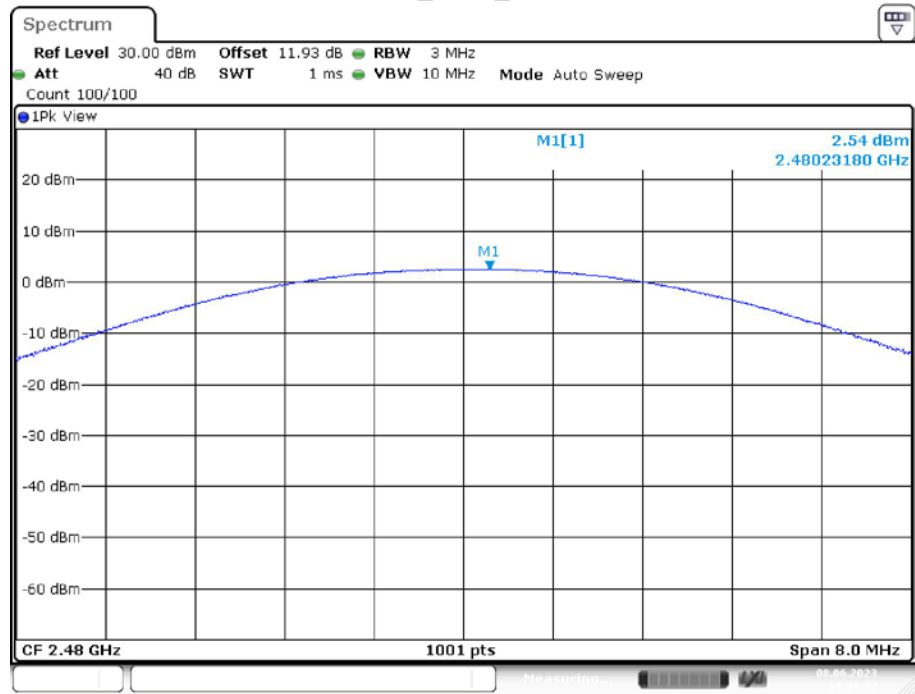
DH5_Ant1_2402



DH5_Ant1_2441

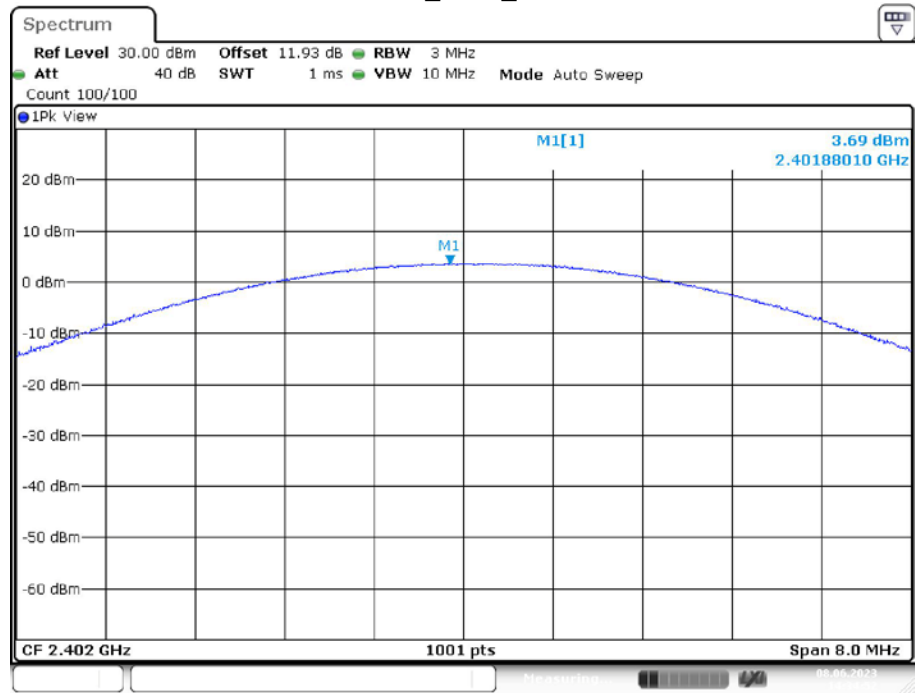


DH5_Ant1_2480



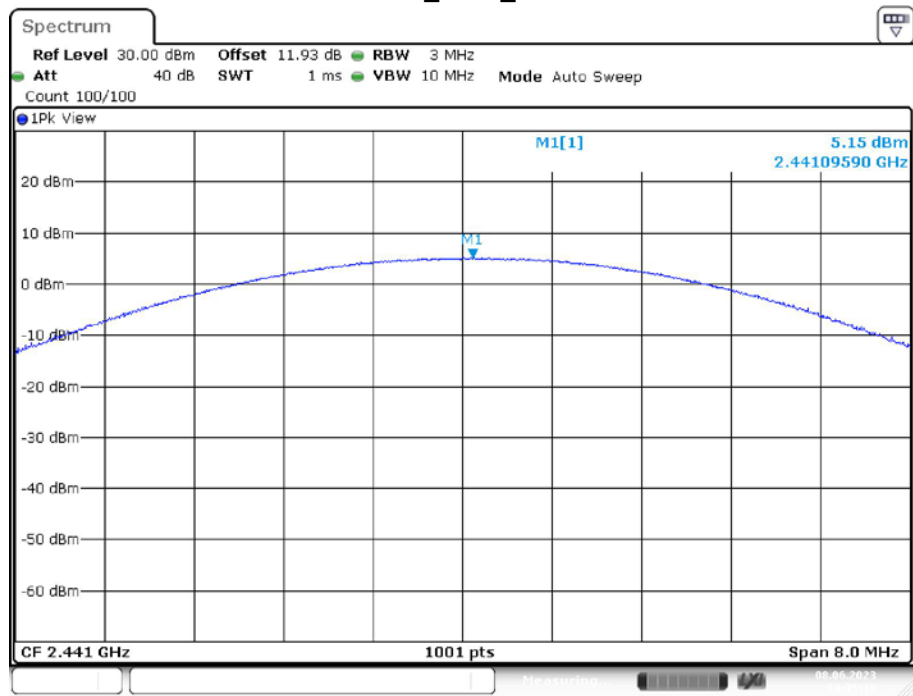
Date: 8.JUN.2023 14:34:32

2DH5_Ant1_2402

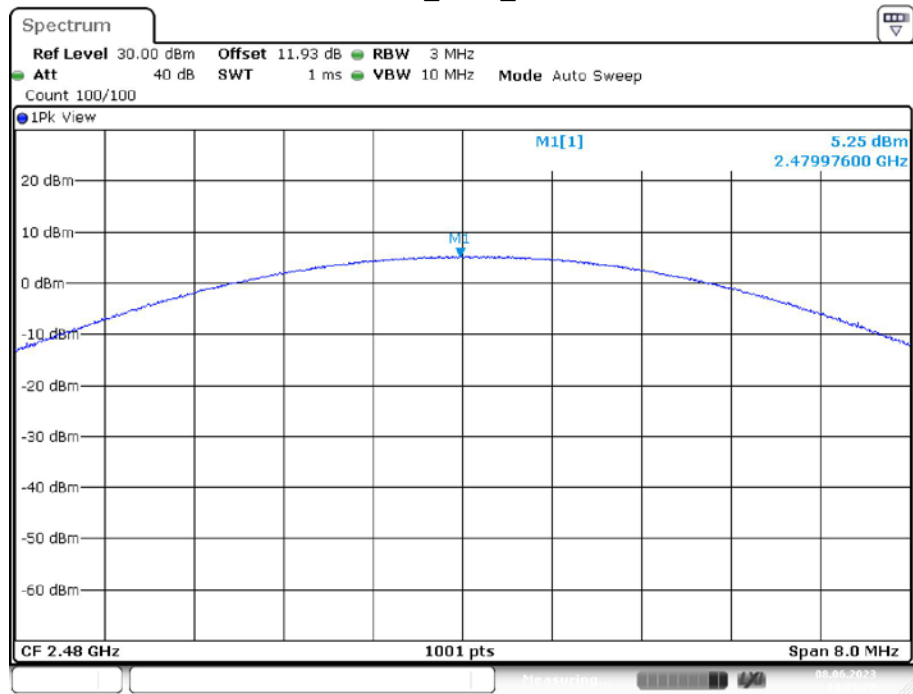


Date: 8.JUN.2023 14:34:52

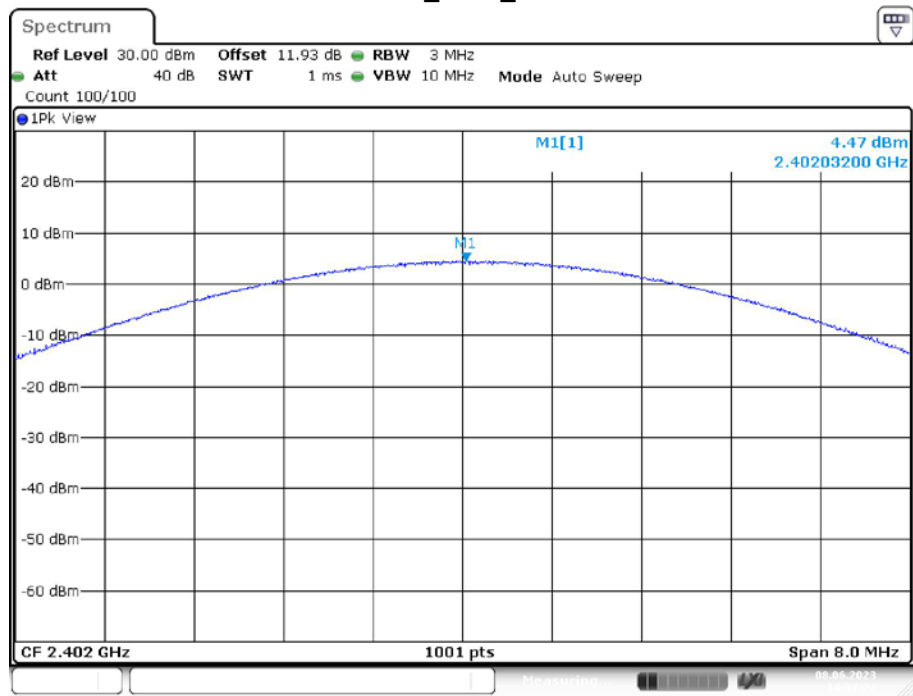
2DH5_Ant1_2441



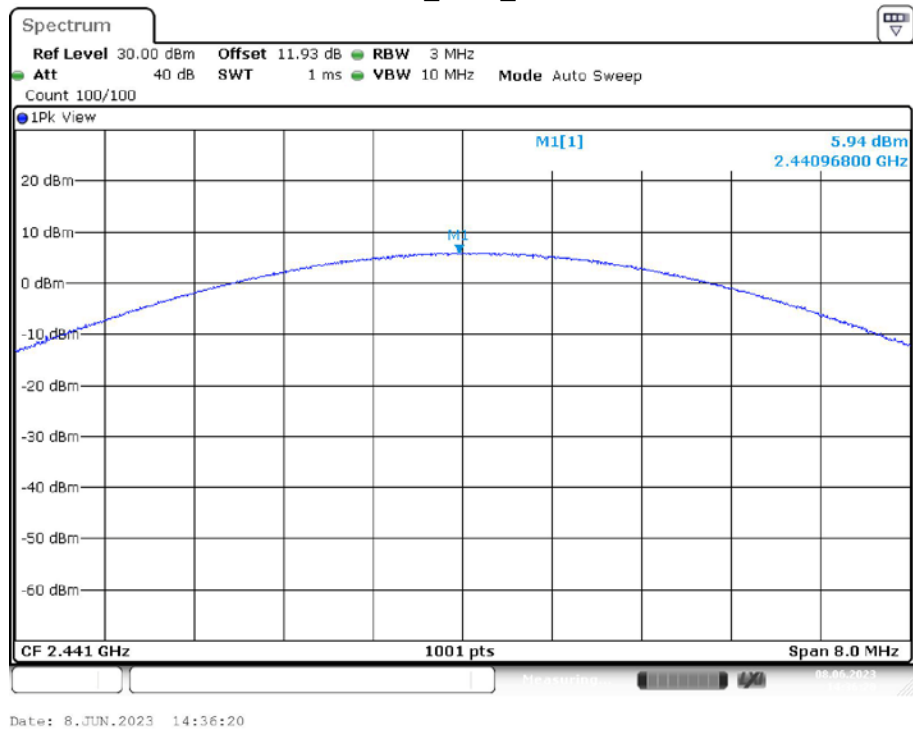
2DH5_Ant1_2480



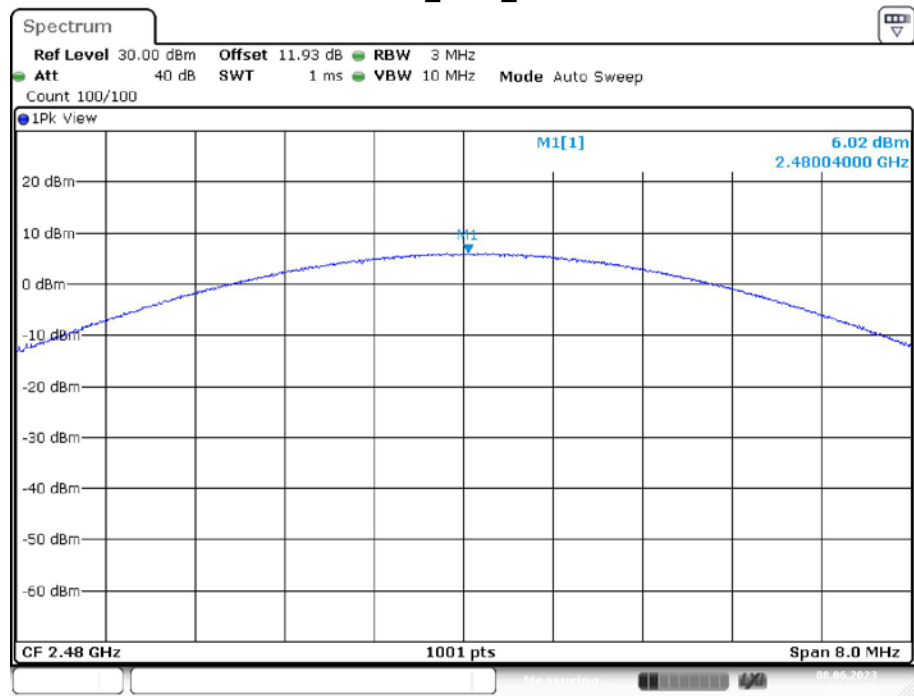
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Date: 8.JUN.2023 14:36:35

FCC §15.247(d) - BAND EDGES TESTING

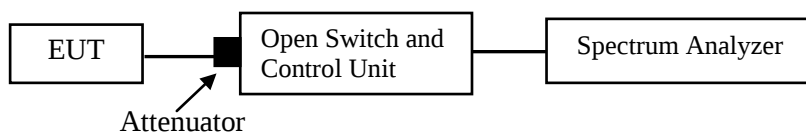
Applicable Standard

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)).

Test Procedure

According to ANSI C63.10-2013, section 7.8.6 and section 6.10

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in TX mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 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.



Test Data

Environmental Conditions

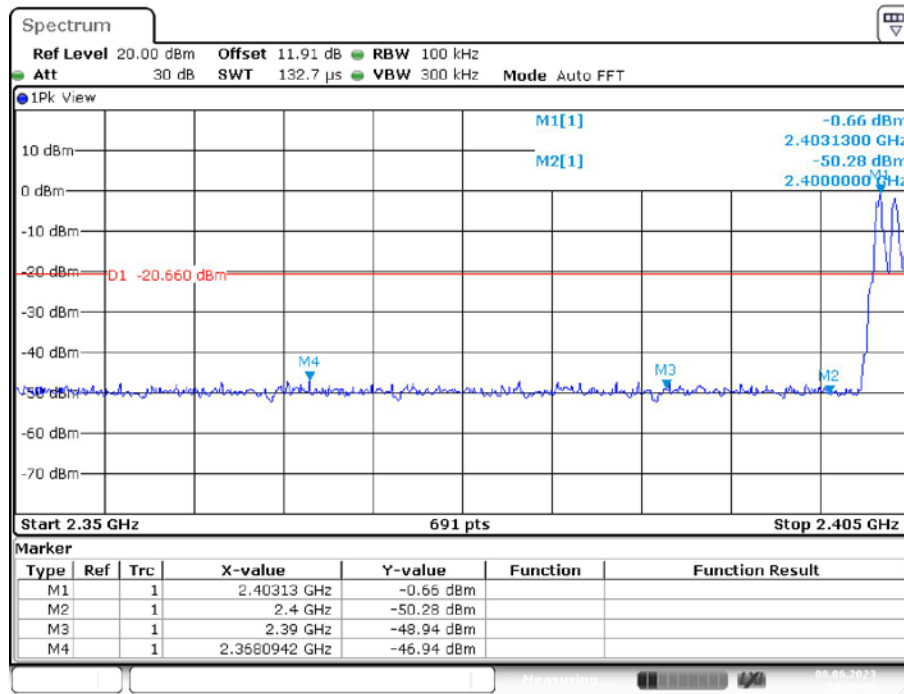
Temperature:	25°C
Relative Humidity:	48%
ATM Pressure:	101.0kPa

The testing was performed by Matt Liang on 2023-06-08.

EUT operation mode: Transmitting

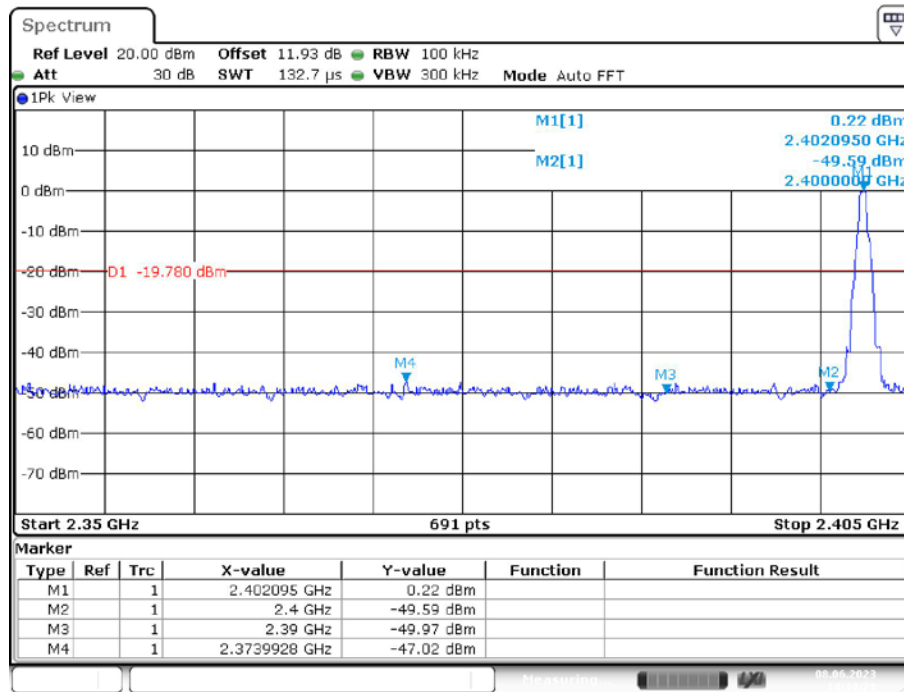
Test Result: Compliant. Please refer to the below plots:

DH5: Band Edge-Left Side Hopping



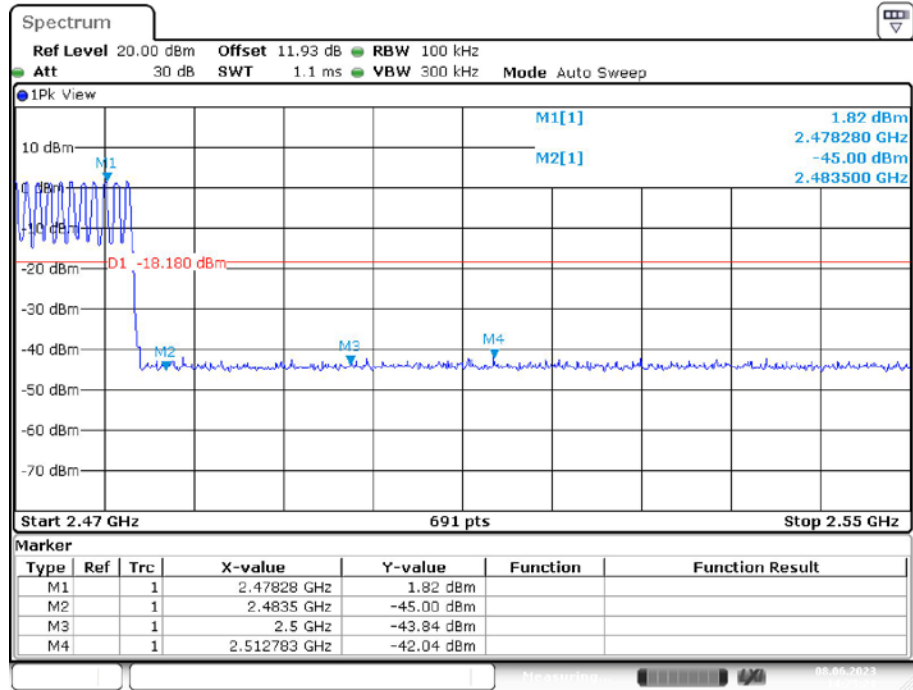
Date: 8.JUN.2023 14:22:43

Single



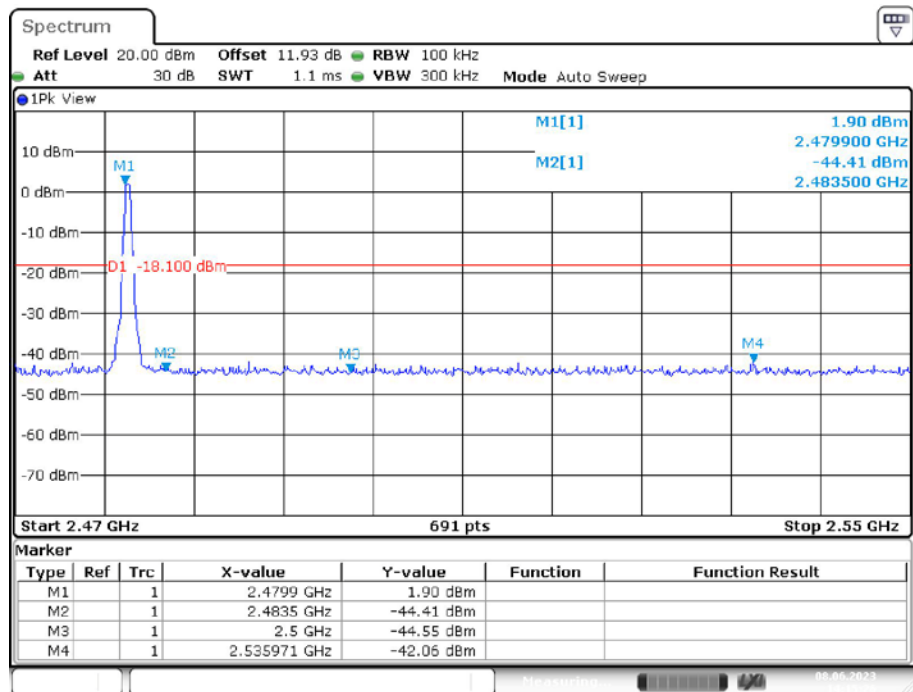
Date: 8.JUN.2023 14:14:21

DH5: Band Edge- Right Side Hopping



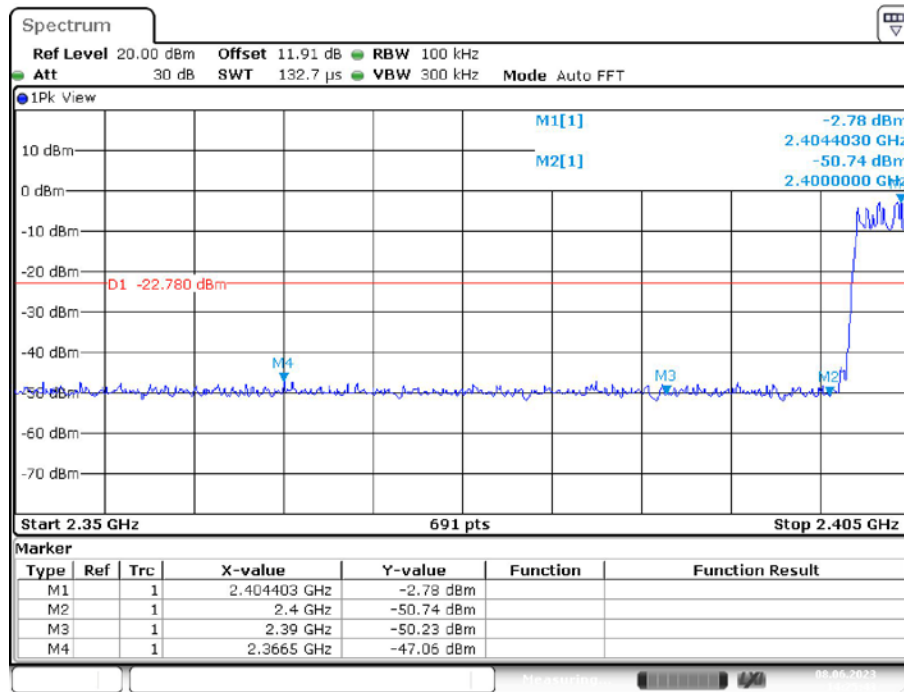
Date: 8.JUN.2023 14:25:21

Single

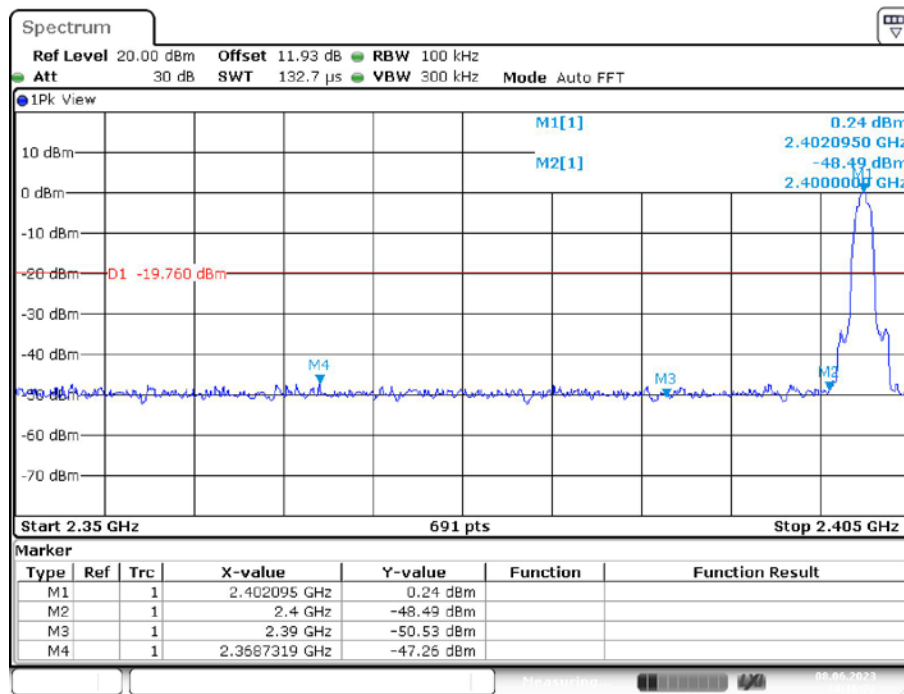


Date: 8.JUN.2023 14:15:26

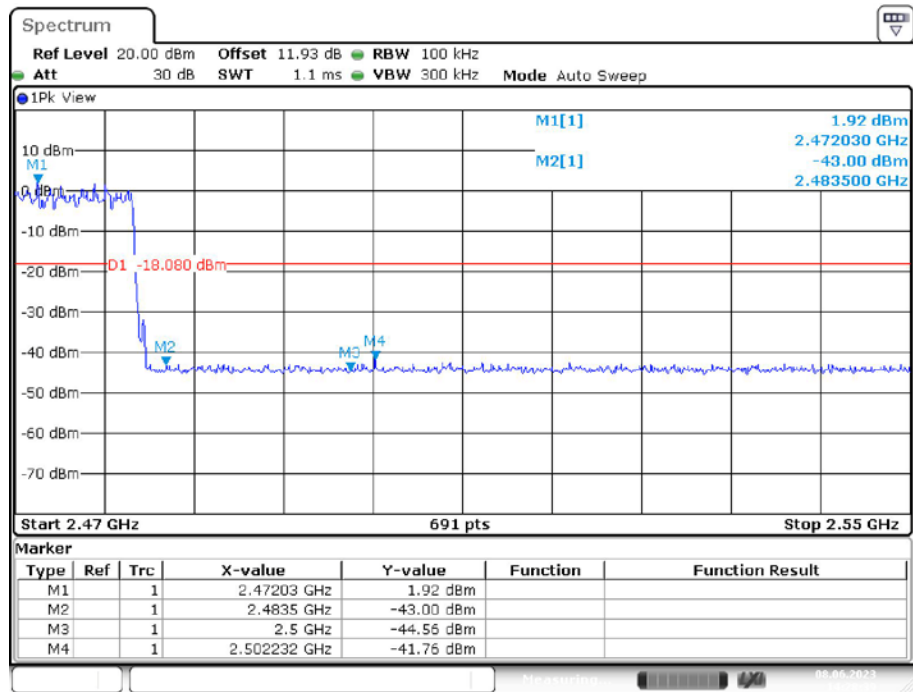
2DH5: Band Edge-Left Side Hopping



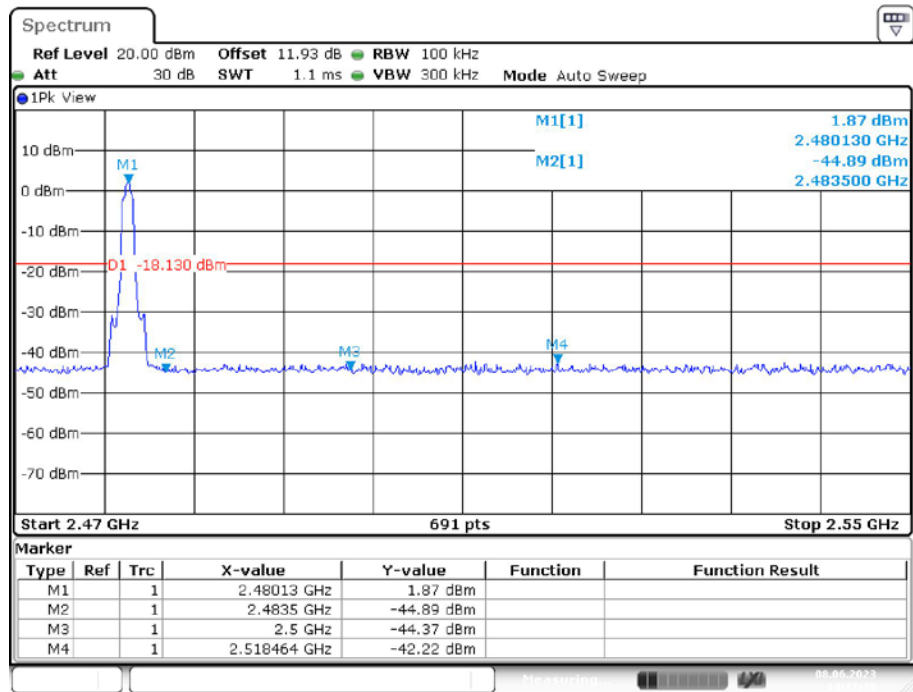
Single



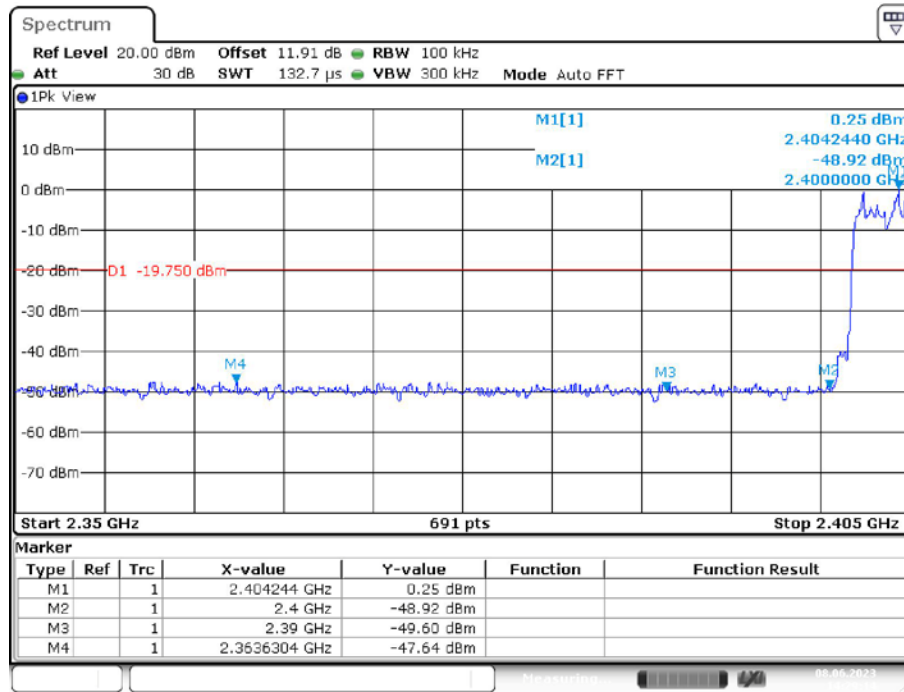
2DH5: Band Edge- Right Side Hopping



Single

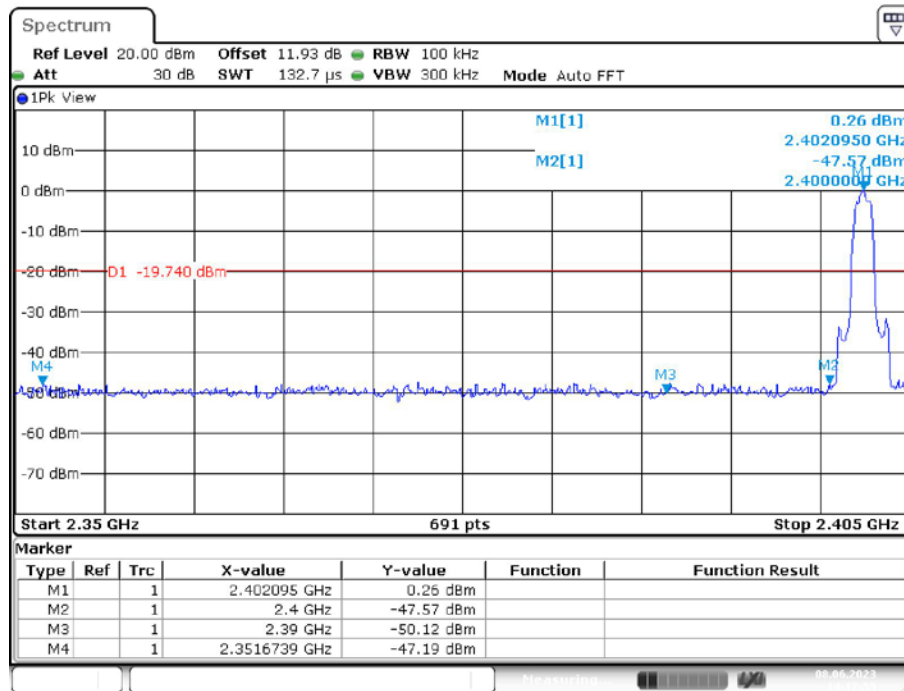


3DH5: Band Edge-Left Side Hopping



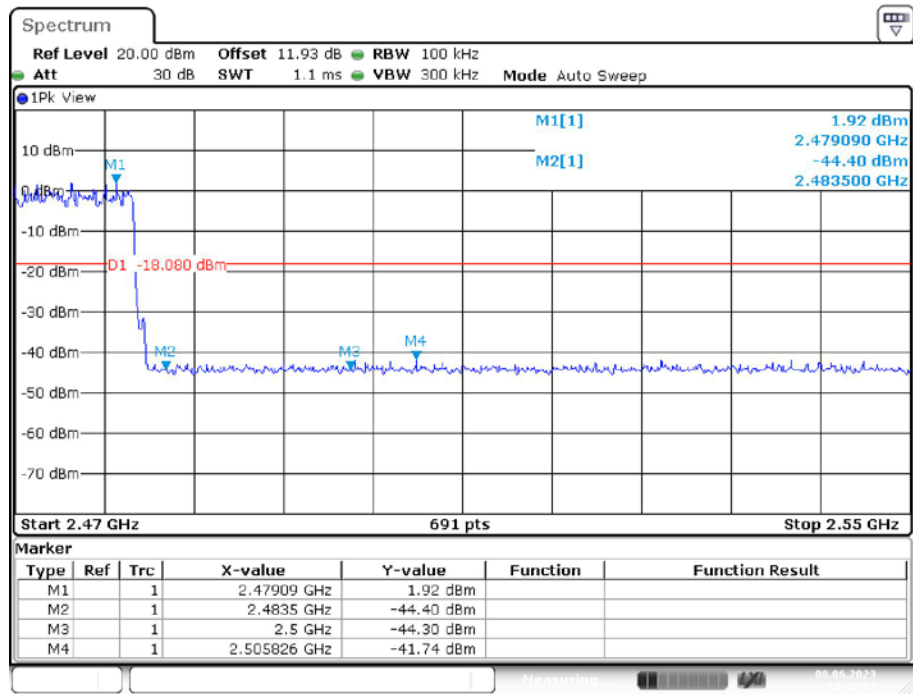
Date: 8.JUN.2023 14:29:14

Single

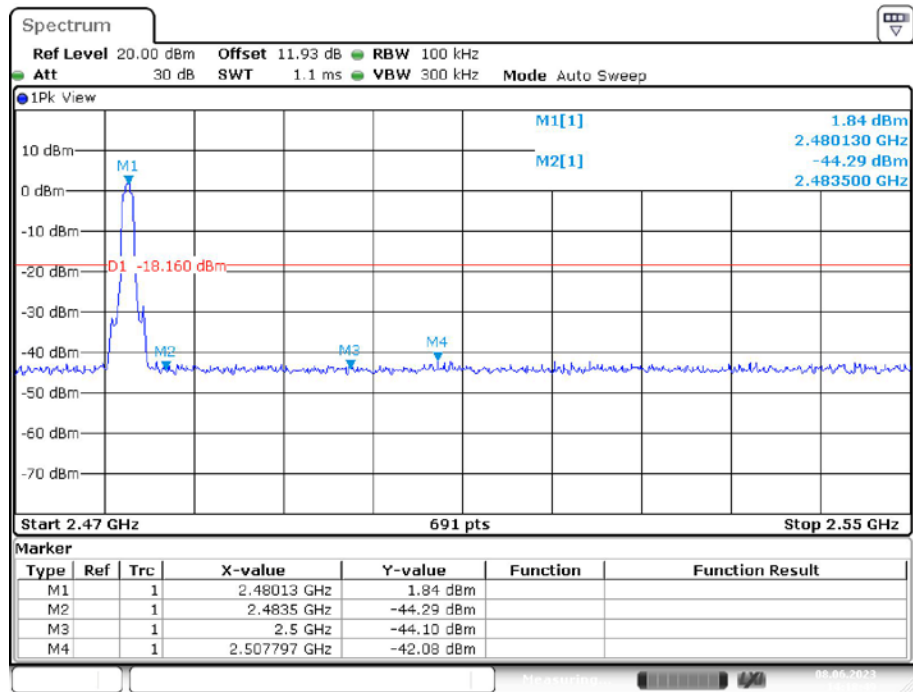


Date: 8.JUN.2023 14:17:55

3DH5: Band Edge- Right Side Hopping



Single



***** END OF REPORT *****