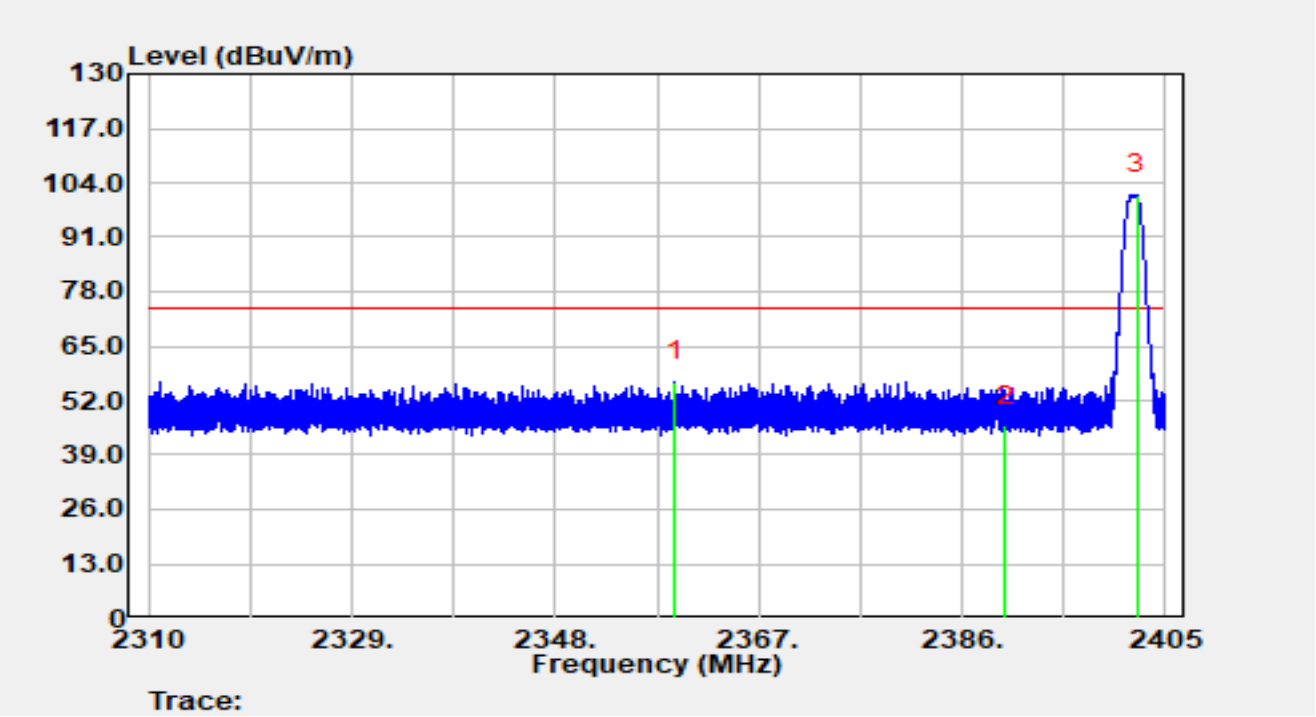
Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2359.163	22.91	33.53	56.45	-17.55	74.00	Peak
2		2390.000	12.66	33.38	46.04	-27.96	74.00	Peak
3		2402.378	67.79	33.32	101.12	N/A	N/A	Peak

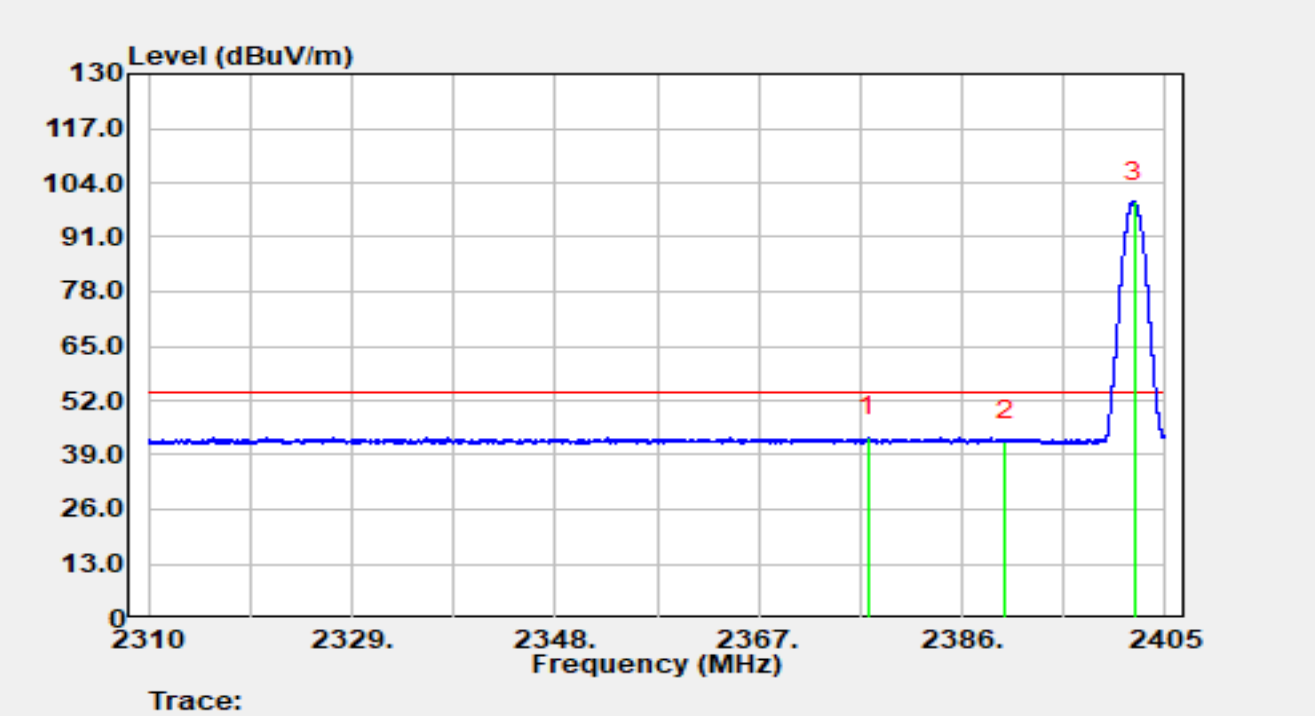
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2377.231	9.80	33.43	43.23	-10.77	54.00	Average
2		2390.000	8.99	33.38	42.37	-11.63	54.00	Average
3		2402.055	66.24	33.33	99.56	N/A	N/A	Average

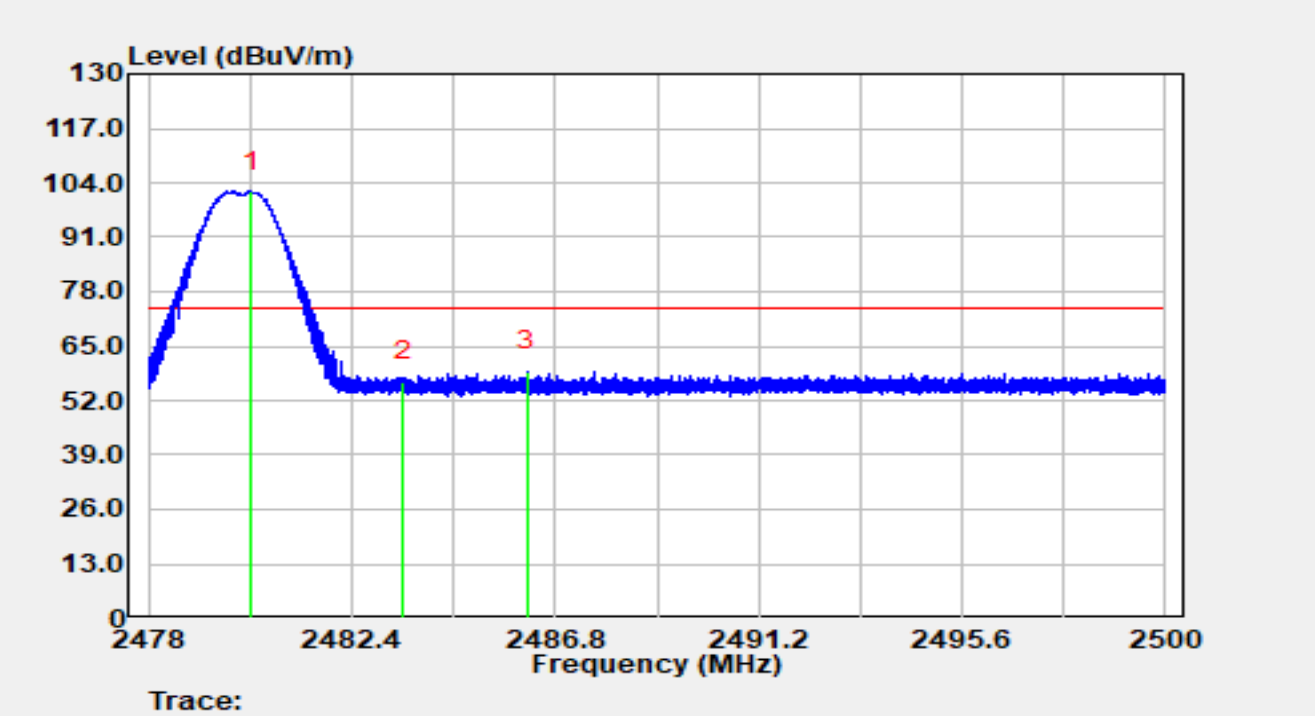
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.220	68.76	33.23	101.99	N/A	N/A	Peak
2		2483.500	23.31	33.25	56.56	-17.44	74.00	Peak
3	*	2486.188	25.78	33.27	59.04	-14.96	74.00	Peak

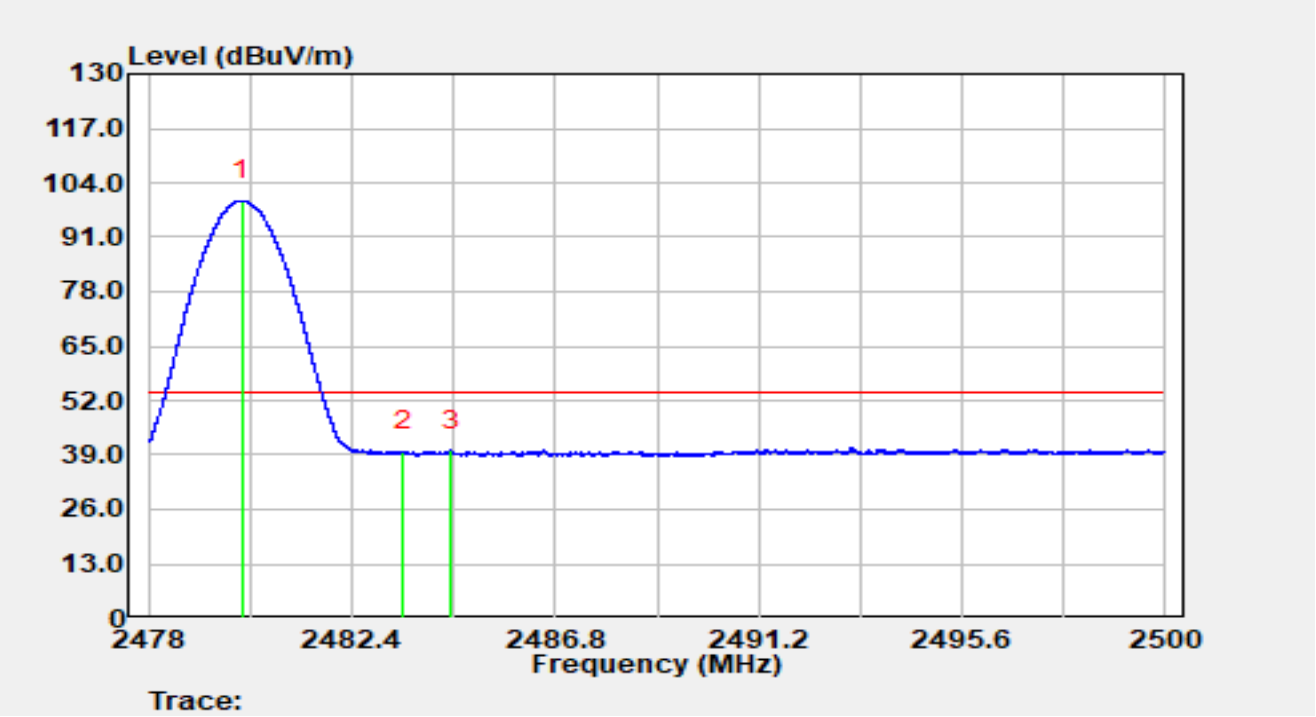
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.017	66.43	33.23	99.66	N/A	N/A	Average
2		2483.500	6.53	33.25	39.78	-14.22	54.00	Average
3	*	2484.547	6.77	33.26	40.03	-13.97	54.00	Average

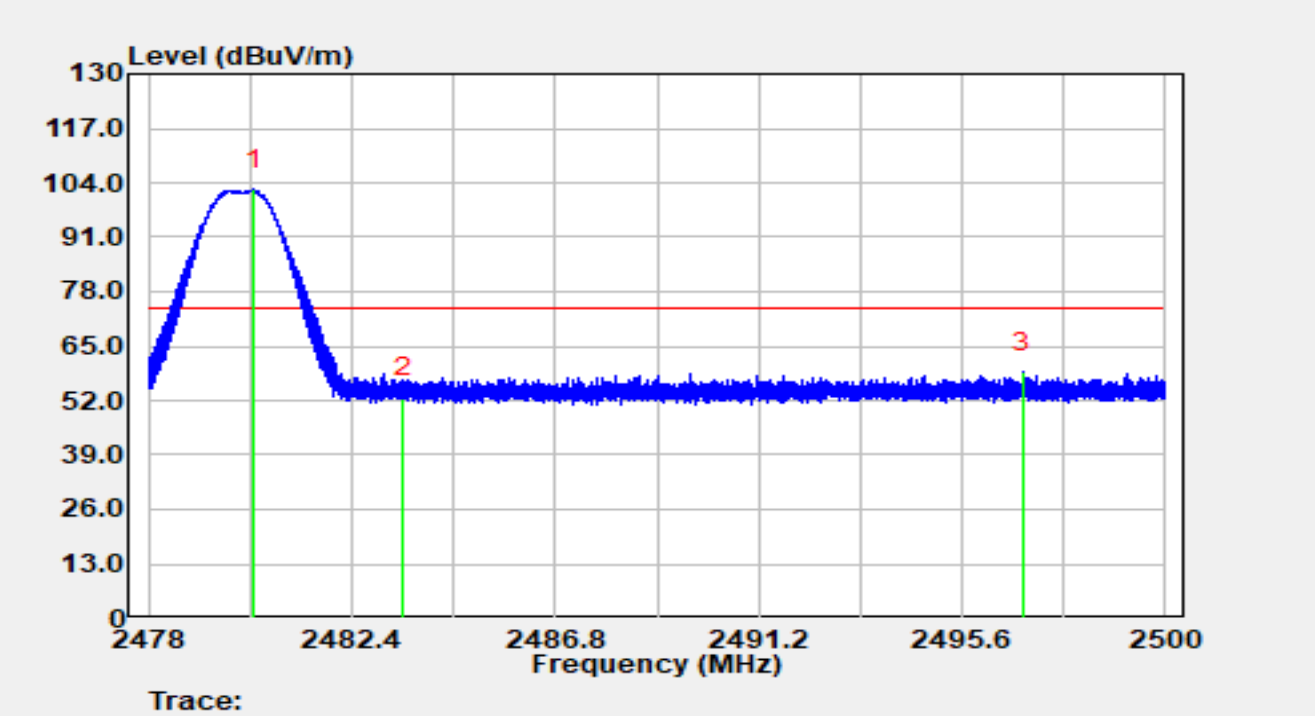
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.277	69.07	33.23	102.30	N/A	N/A	Peak
2		2483.500	19.27	33.25	52.52	-21.48	74.00	Peak
3	*	2496.920	25.45	33.32	58.77	-15.23	74.00	Peak

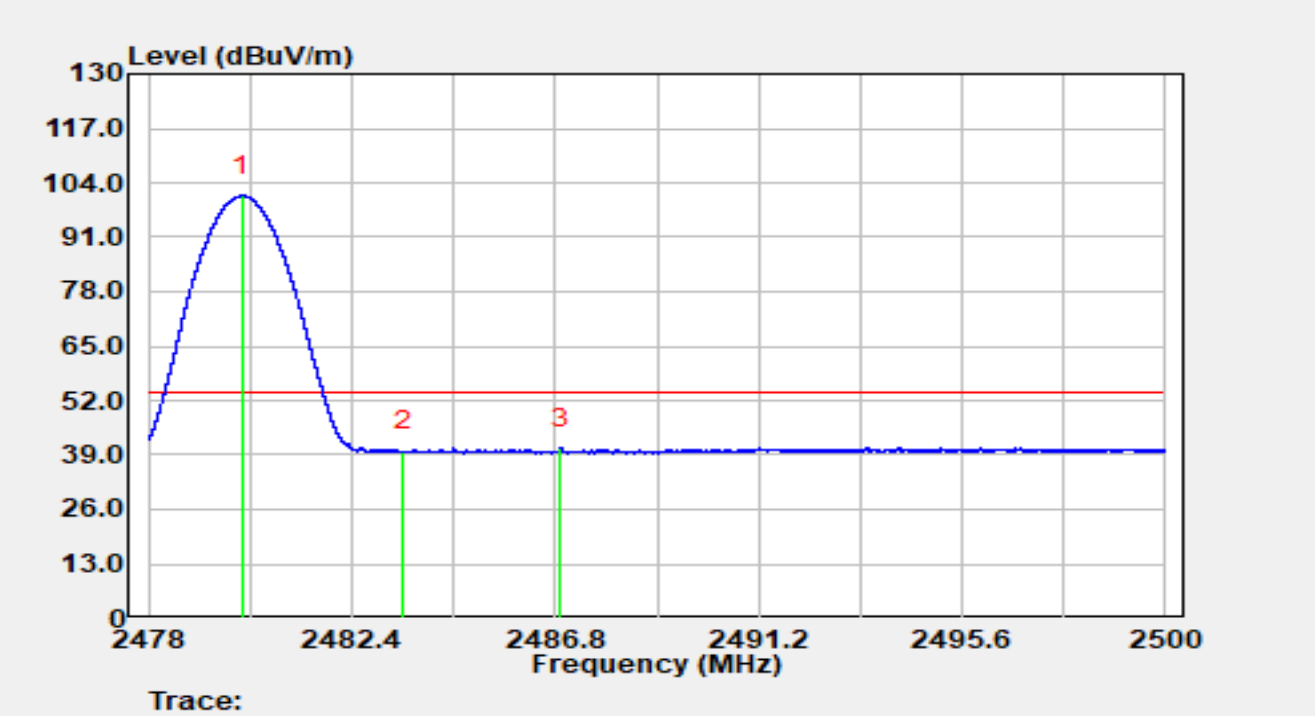
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_125K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.033	67.66	33.23	100.89	N/A	N/A	Average
2		2483.500	6.63	33.25	39.88	-14.12	54.00	Average
3	*	2486.912	7.34	33.27	40.61	-13.39	54.00	Average

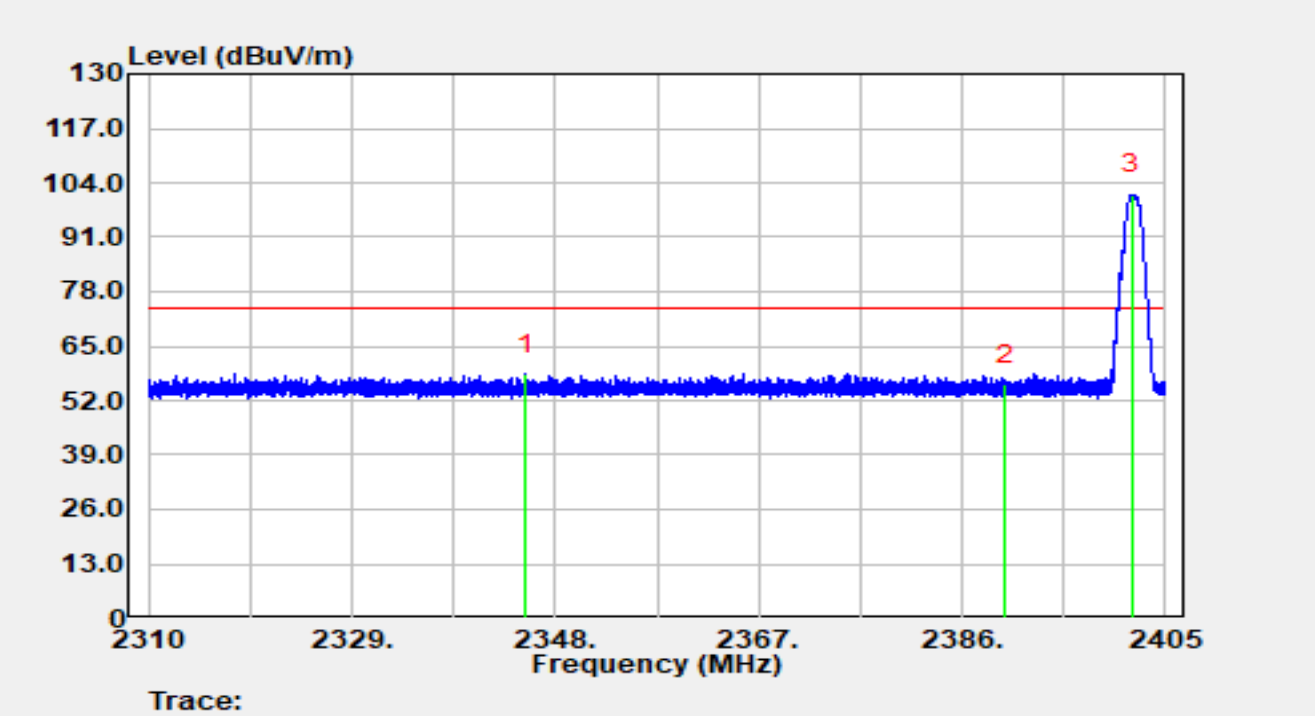
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2345.207	24.74	33.52	58.26	-15.74	74.00	Peak
2		2390.000	22.38	33.38	55.76	-18.24	74.00	Peak
3		2401.799	67.75	33.33	101.08	N/A	N/A	Peak

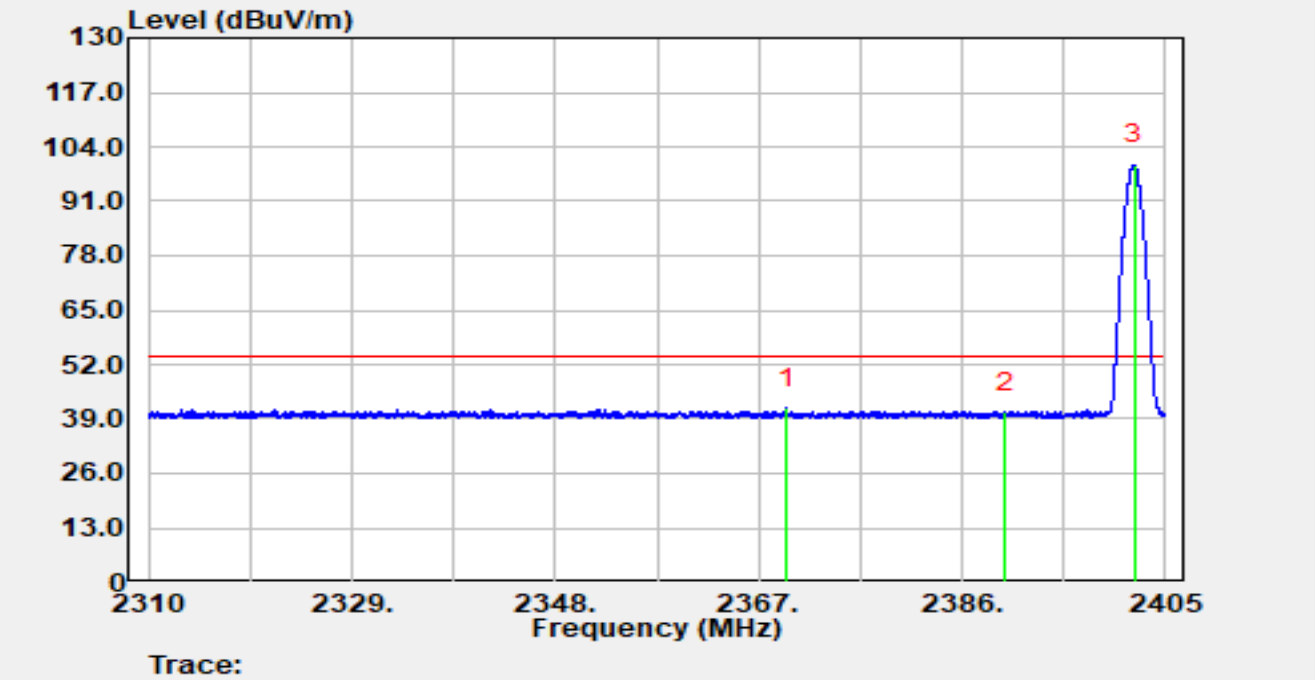
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2369.594	8.03	33.47	41.51	-12.49	54.00	Average
2		2390.000	7.18	33.38	40.56	-13.44	54.00	Average
3		2402.064	66.33	33.33	99.65	N/A	N/A	Average

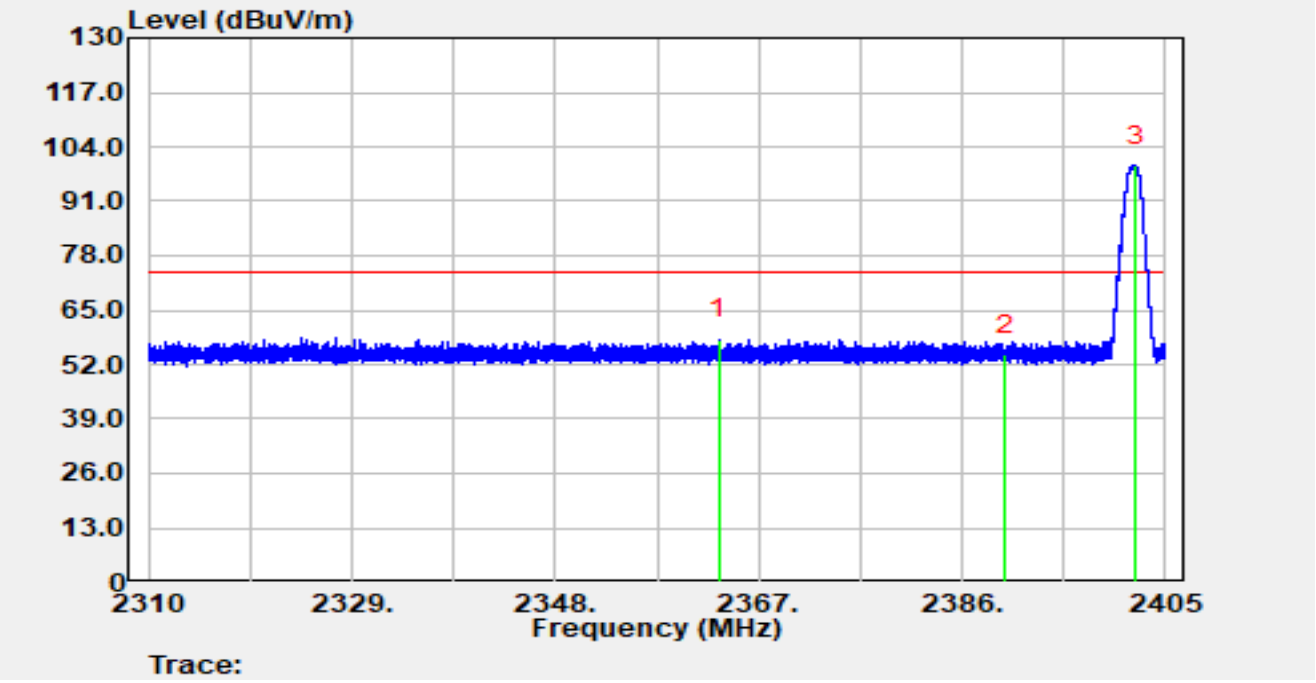
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2363.304	24.45	33.51	57.96	-16.04	74.00	Peak
2		2390.000	20.88	33.38	54.25	-19.75	74.00	Peak
3		2402.283	66.11	33.33	99.44	N/A	N/A	Peak

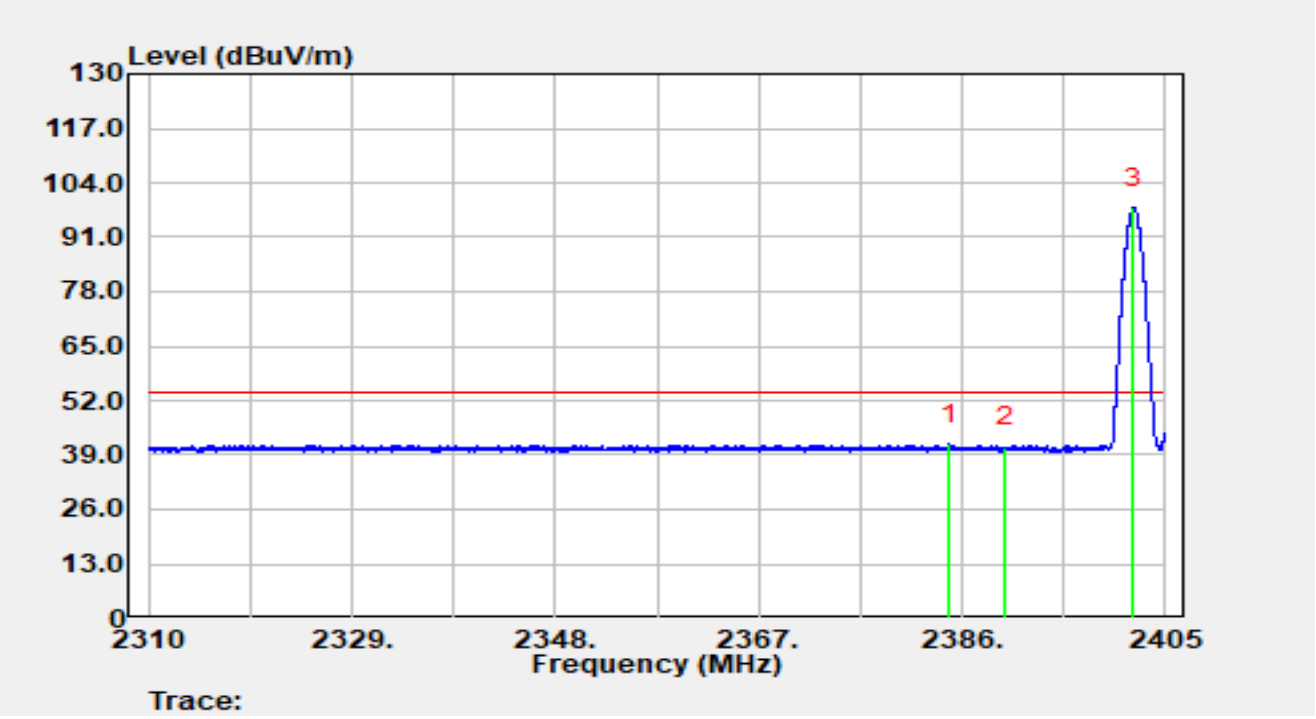
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2384.851	8.11	33.40	41.51	-12.49	54.00	Average
2		2390.000	7.46	33.38	40.84	-13.16	54.00	Average
3		2402.027	64.77	33.33	98.10	N/A	N/A	Average

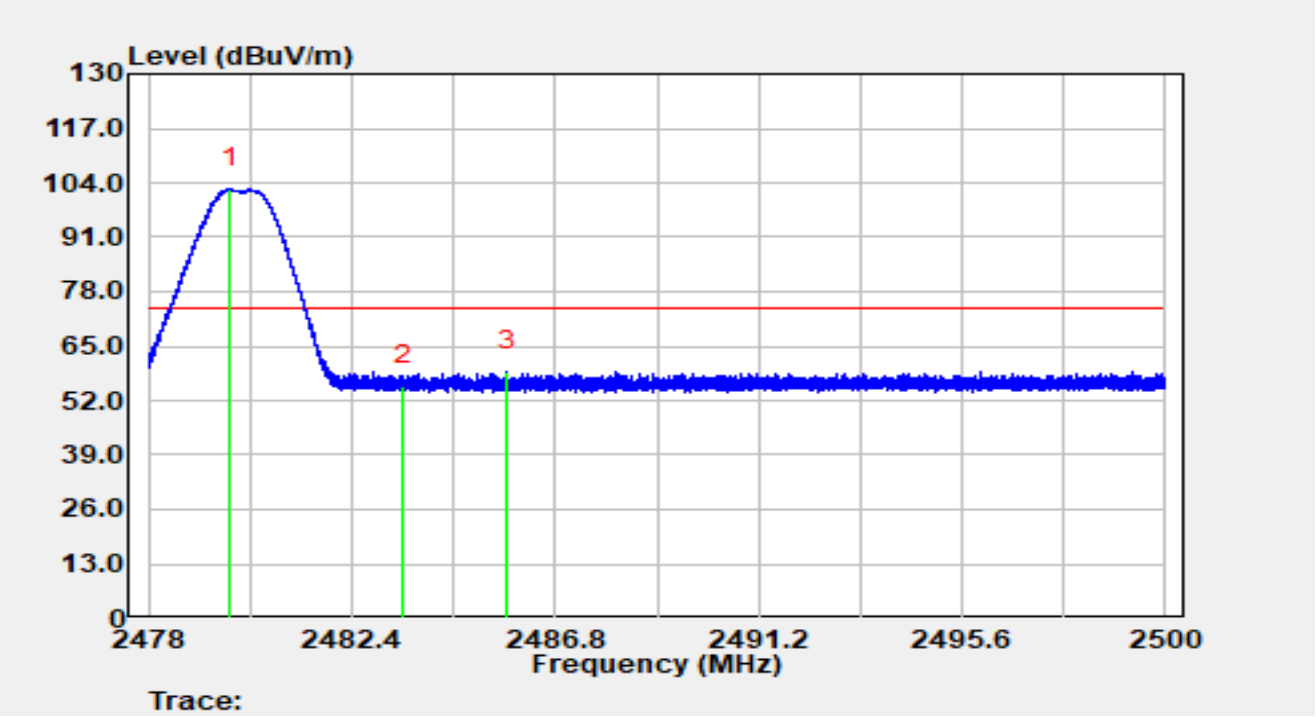
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.775	69.33	33.23	102.56	N/A	N/A	Peak
2		2483.500	22.41	33.25	55.66	-18.34	74.00	Peak
3	*	2485.764	25.61	33.26	58.88	-15.12	74.00	Peak

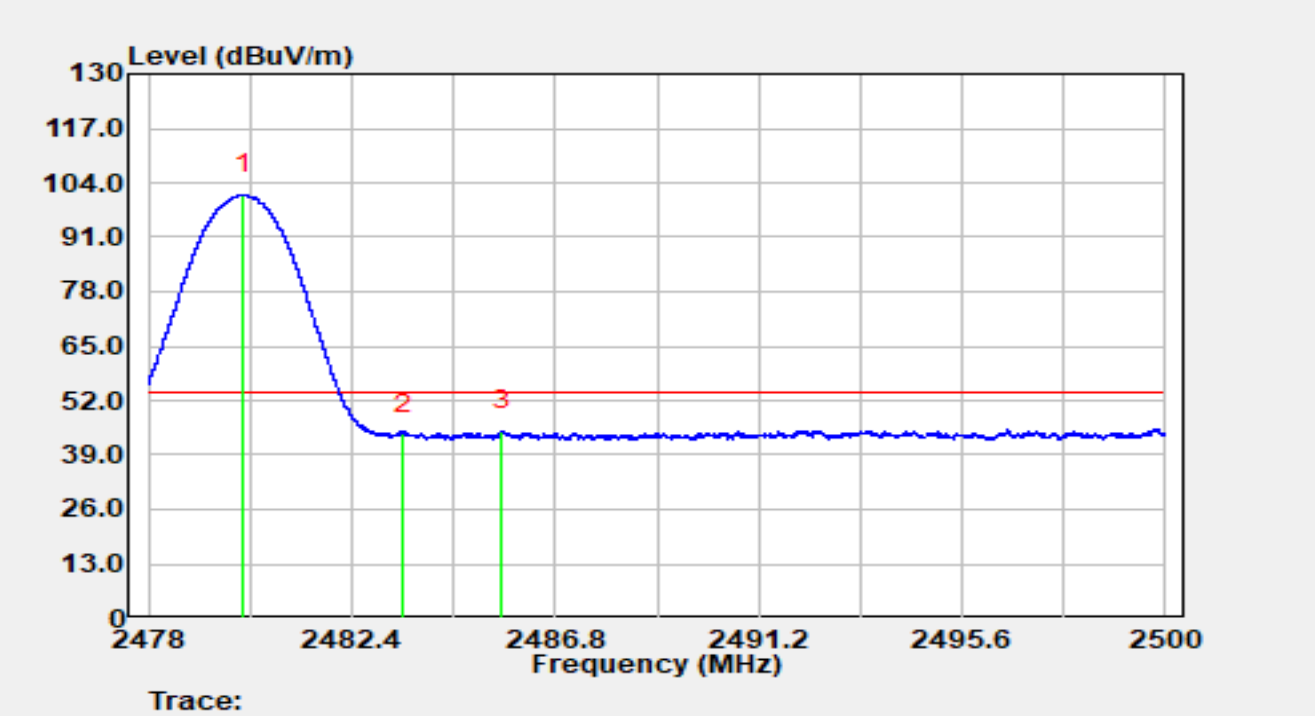
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Horizontal
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.059	67.84	33.23	101.07	N/A	N/A	Average
2		2483.500	10.88	33.25	44.13	-9.87	54.00	Average
3	*	2485.638	11.56	33.26	44.82	-9.18	54.00	Average

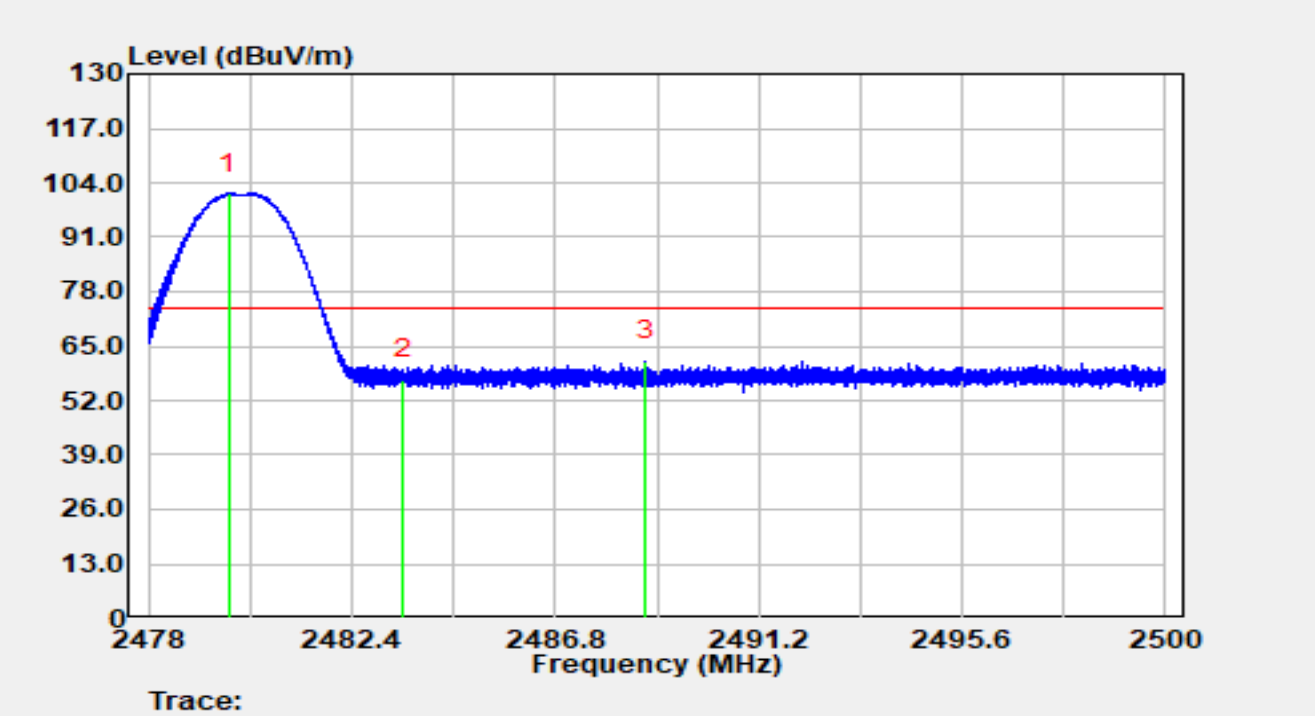
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.749	68.25	33.23	101.48	N/A	N/A	Peak
2		2483.500	23.85	33.25	57.10	-16.90	74.00	Peak
3	*	2488.767	28.11	33.28	61.39	-12.61	74.00	Peak

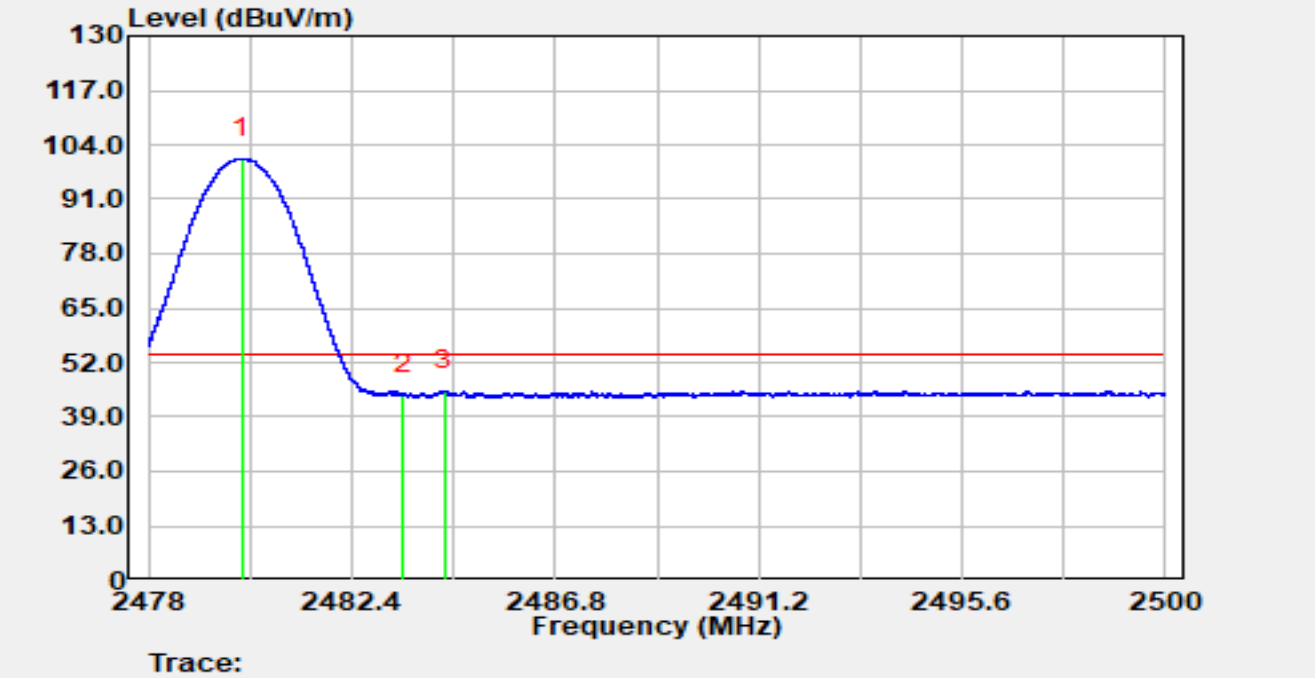
Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2025-06-14
Temperature	22.3°C	Humidity	61.2%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Fusco Pan
Factor	BBHA 9120D_02042	Polarity	Vertical
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_500K at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2480.017	67.58	33.23	100.81	N/A	N/A	Average
2		2483.500	11.11	33.25	44.36	-9.64	54.00	Average
3	*	2484.406	11.99	33.26	45.24	-8.76	54.00	Average

Notes:

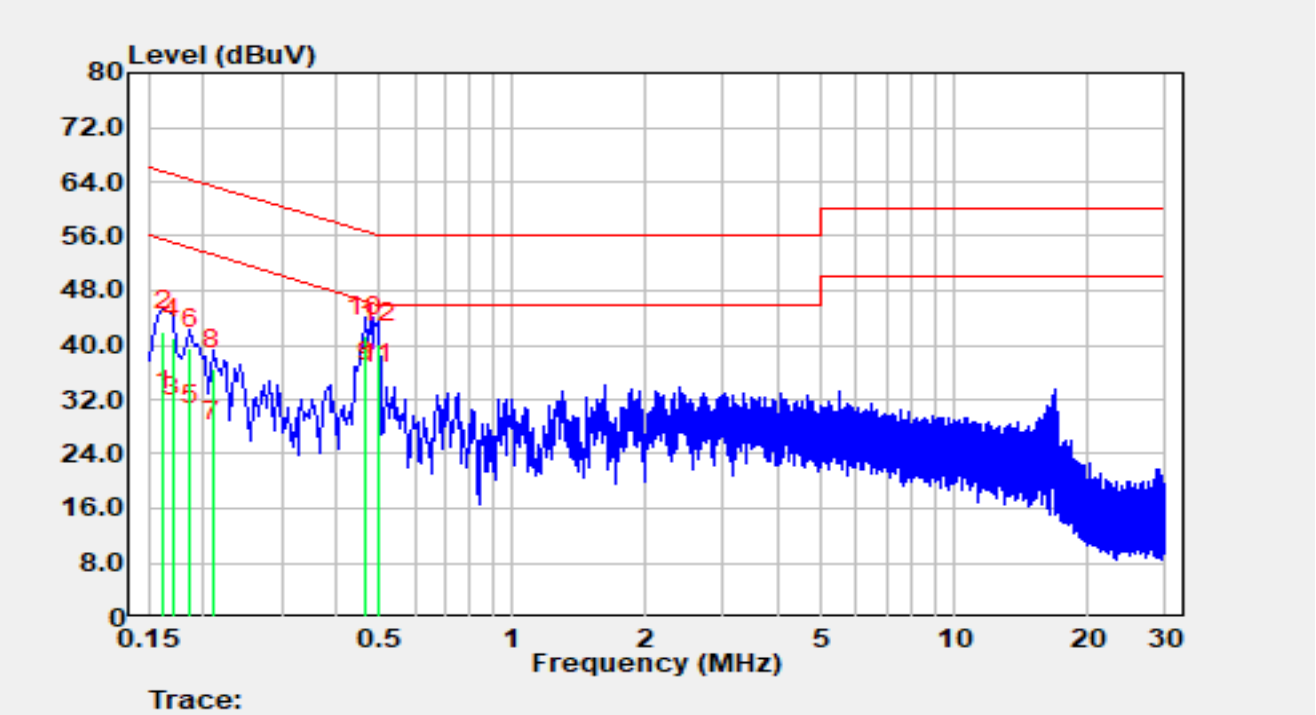
1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

A.8 AC Conducted Emissions Test Result

Site	SIP-SR2	Test Date	2025-06-26
Temperature	22.8 °C	Humidity	59.7 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Poli Cai
Factor	ENV216_101684_E	Polarity	Line
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at channel 2480MHz		

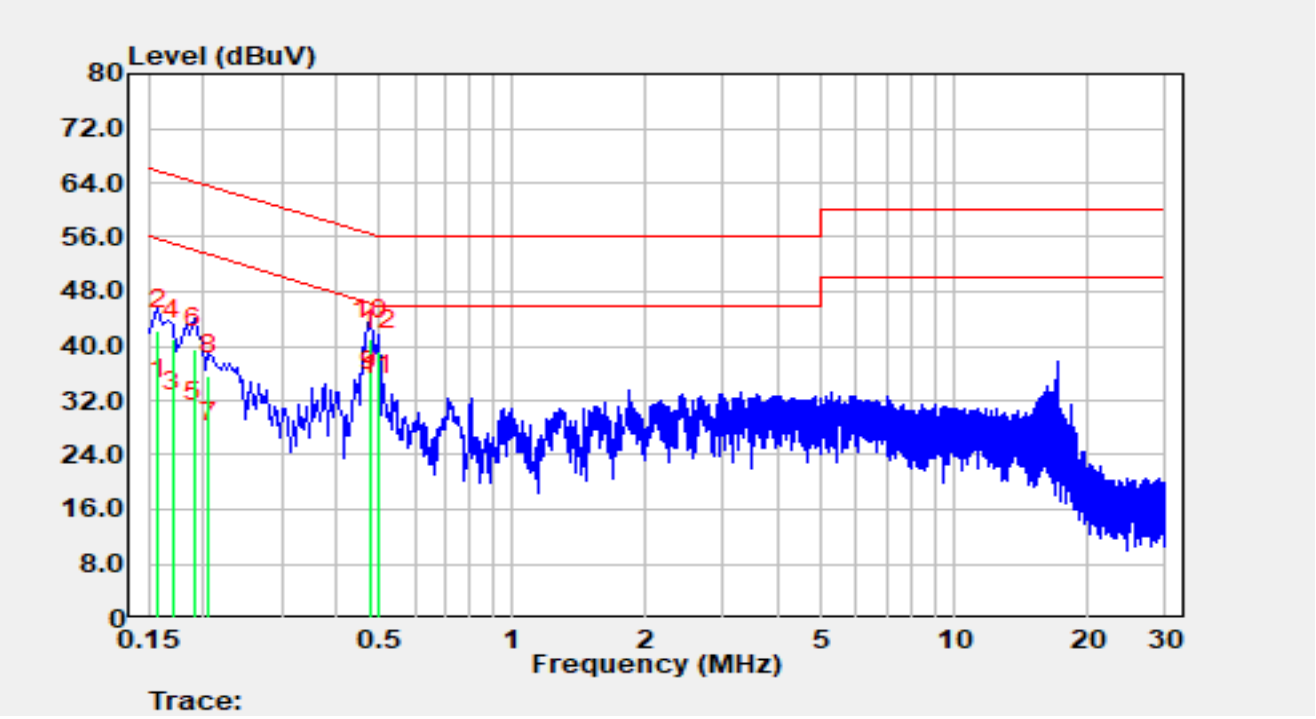


No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.162	20.45	9.81	30.26	-25.10	55.36	Average
2		0.162	32.20	9.81	42.01	-23.35	65.36	QP
3		0.170	19.70	9.81	29.51	-25.45	54.96	Average
4		0.170	31.19	9.81	41.00	-23.96	64.96	QP
5		0.186	18.28	9.82	28.10	-26.11	54.21	Average
6		0.186	29.62	9.82	39.44	-24.77	64.21	QP
7		0.210	15.94	9.86	25.80	-27.40	53.21	Average
8		0.210	26.53	9.86	36.39	-26.82	63.21	QP
9		0.466	24.61	9.93	34.54	-12.04	46.58	Average
10		0.466	31.28	9.93	41.21	-15.37	56.58	QP
11	*	0.494	24.22	9.93	34.15	-11.95	46.10	Average
12		0.494	30.34	9.93	40.27	-15.83	56.10	QP

Notes:

1. “*” indicates the worst-case emission level observed during the measurement.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Site	SIP-SR2	Test Date	2025-06-26
Temperature	22.8 °C	Humidity	59.7 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Poli Cai
Factor	ENV216_101684_E	Polarity	Neutral
EUT	ES1 (B)	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at channel 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.158	22.23	9.81	32.04	-23.52	55.57	Average
2		0.158	32.46	9.81	42.27	-23.30	65.57	QP
3		0.170	20.38	9.81	30.19	-24.77	54.96	Average
4		0.170	31.15	9.81	40.96	-24.00	64.96	QP
5		0.190	19.05	9.82	28.87	-25.16	54.04	Average
6		0.190	29.79	9.82	39.61	-24.42	64.04	QP
7		0.206	15.82	9.84	25.67	-27.70	53.37	Average
8		0.206	25.89	9.84	35.74	-27.63	63.37	QP
9	*	0.474	23.31	9.90	33.21	-13.23	46.44	Average
10		0.474	31.05	9.90	40.95	-15.49	56.44	QP
11		0.494	22.86	9.90	32.76	-13.34	46.10	Average
12		0.494	29.38	9.90	39.28	-16.82	56.10	QP

Notes:

1. “*” indicates the worst-case emission level observed during the measurement.

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Appendix B - Test Setup Photograph

Refer to “R25S1059057-UT” file.

Appendix C - EUT Photograph

Refer to “R25S1059057-UE” file.

The End