

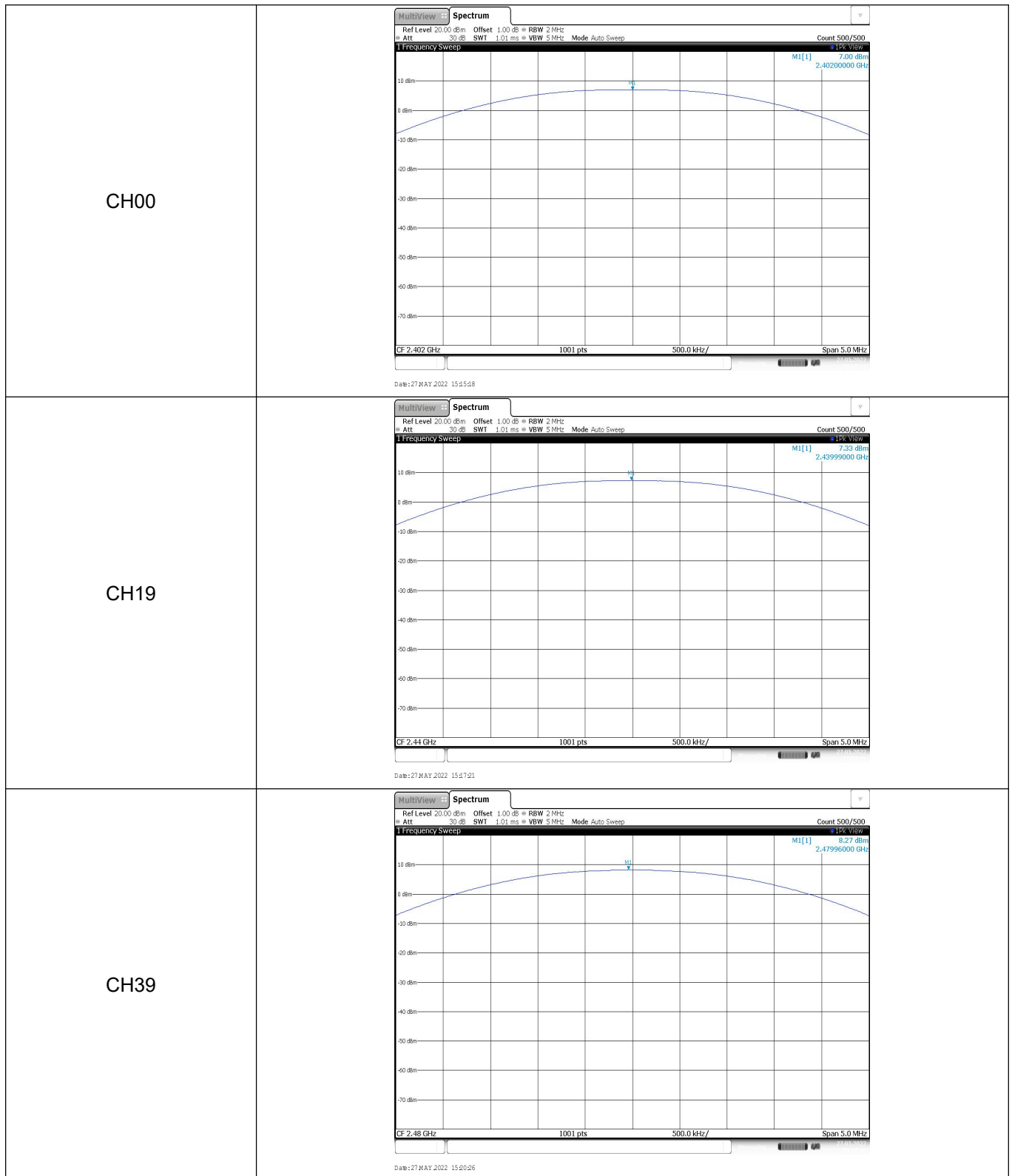
# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2109010007EW | Radio Specification | Bluetooth BLE |
| Model No.       | RXiBreeze 20A   |                     |               |
| Start test date | 2022-05-27      | Finish date         | 2022-05-27    |
| Temperature     | 25.0℃           | Humidity            | 44%           |
| Test Engineer   | Xiaoqin Li      | Auditor             | Xiaodong Zhao |

| Appendix clause | Test item                                    | Result |
|-----------------|----------------------------------------------|--------|
| A               | Peak Output Power                            | PASS   |
| B               | Power Spectral Density                       | PASS   |
| C               | 6 dB Bandwidth                               | PASS   |
| D               | 99% Occupied Bandwidth                       | PASS   |
| E               | Duty cycle                                   | PASS   |
| F               | Band edge and Spurious Emissions (conducted) | PASS   |

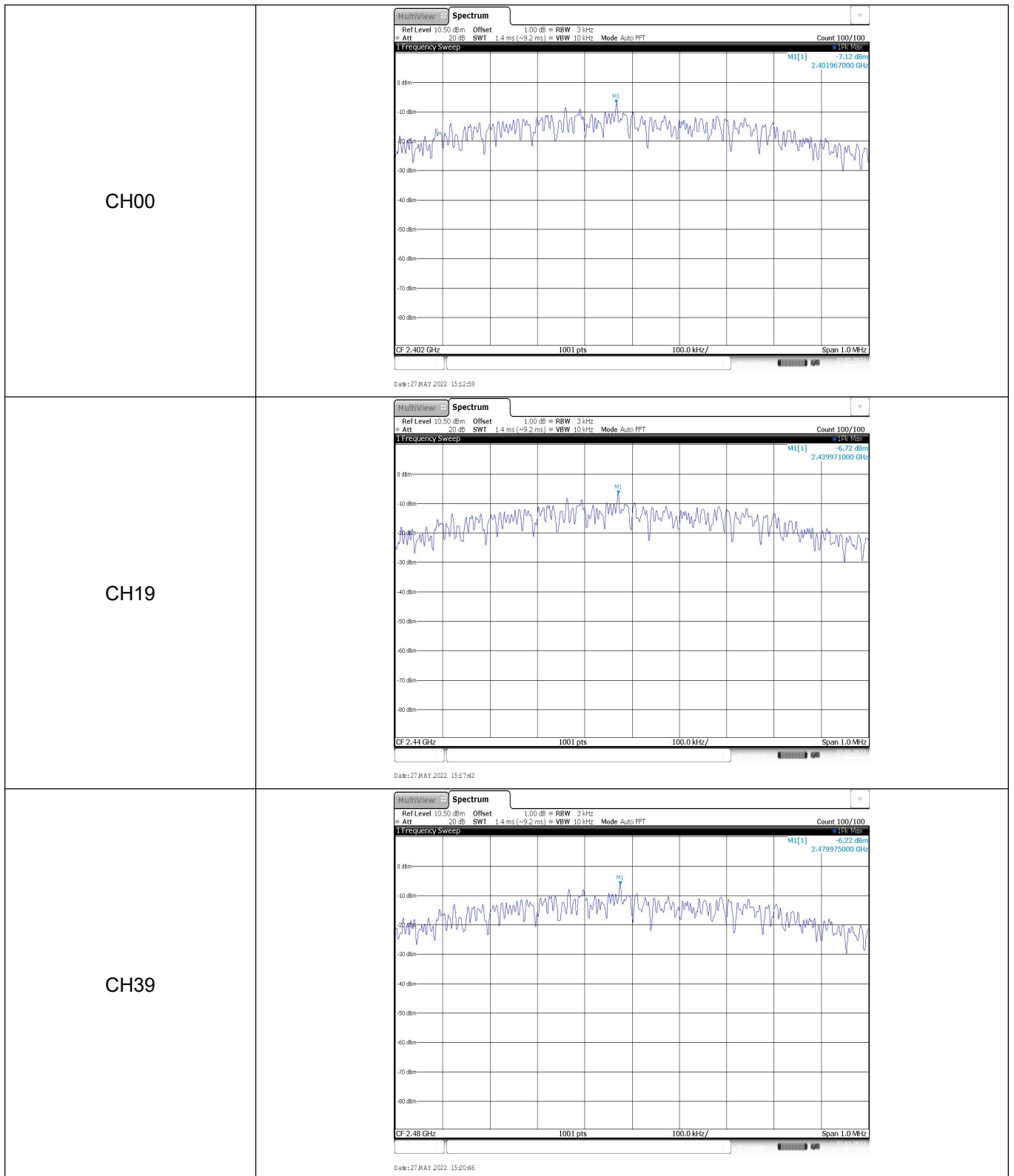
**Appendix A: Peak Output Power**

| Type   | Channel | Peak Output power (dBm) | Average Output power (dBm) | Limit (dBm) | Result |
|--------|---------|-------------------------|----------------------------|-------------|--------|
| BT-BLE | 00      | 7.00                    | 6.97                       | ≤ 30.00     | Pass   |
|        | 19      | 7.33                    | 7.31                       |             |        |
|        | 39      | 8.27                    | 8.26                       |             |        |



**Appendix B: Power Spectral Density**

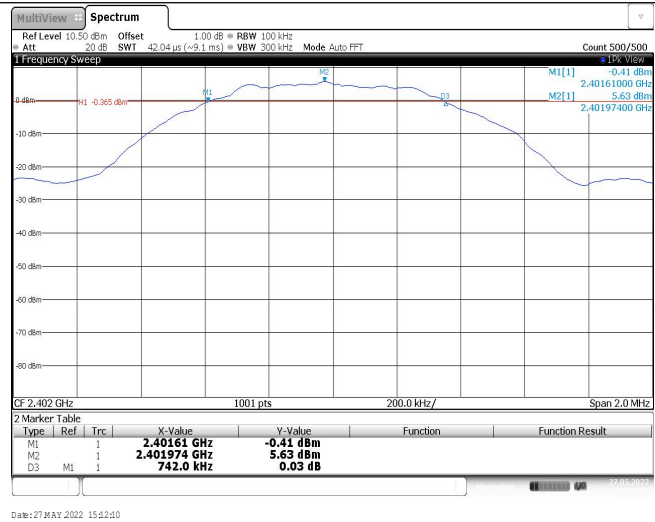
| Type   | Channel | Power Spectral Density(dBm/3KHz) | Limit (dBm/3KHz) | Result |
|--------|---------|----------------------------------|------------------|--------|
| BT-BLE | 00      | -7.12                            | ≤8.00            | Pass   |
|        | 19      | -6.72                            |                  |        |
|        | 39      | -6.22                            |                  |        |



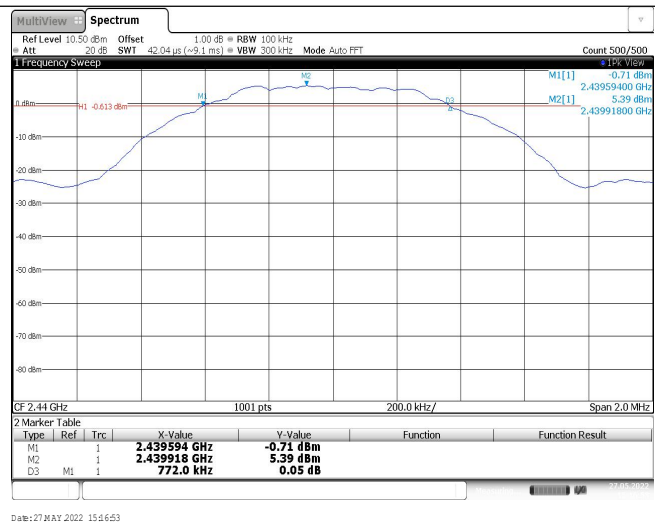
**Appendix C: 6dB bandwidth**

| Type   | Channel | 6dB Bandwidth(kHz) | Limit (kHz) | Result |
|--------|---------|--------------------|-------------|--------|
| BT-BLE | 00      | 742.00             | ≥500        | Pass   |
|        | 19      | 772.00             |             |        |
|        | 39      | 774.00             |             |        |

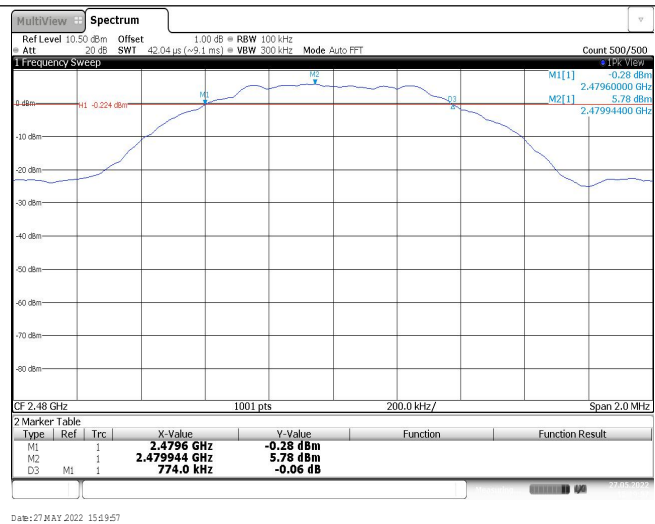
CH00



CH19



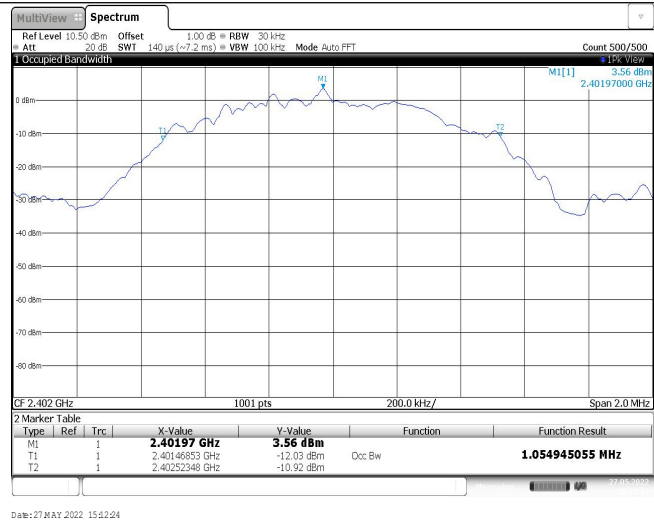
CH39



**Appendix D: 99% Occupied Bandwidth**

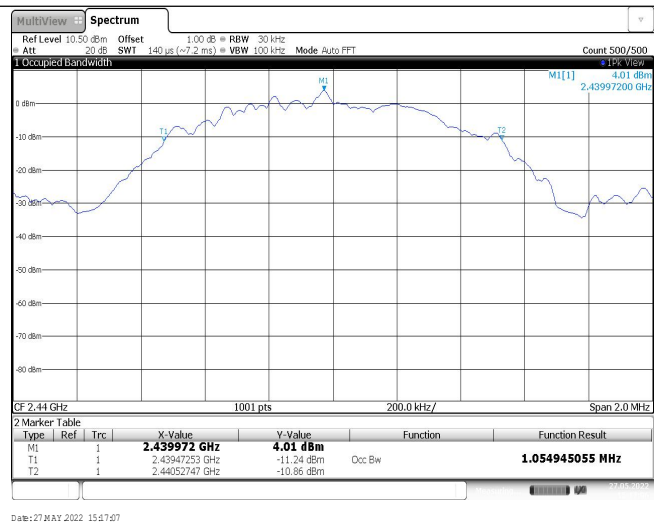
| Type   | Channel | 99% Occupied Bandwidth(MHz) | Limit (kHz) | Result |
|--------|---------|-----------------------------|-------------|--------|
| BT-BLE | 00      | 1.06                        | -           | Pass   |
|        | 19      | 1.06                        |             |        |
|        | 39      | 1.06                        |             |        |

CH00



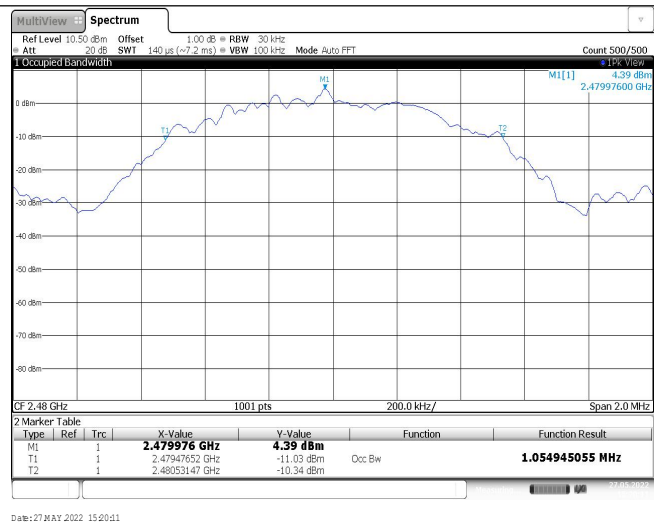
Date: 27 MAY 2022 15:12:24

CH19



Date: 27 MAY 2022 15:17:07

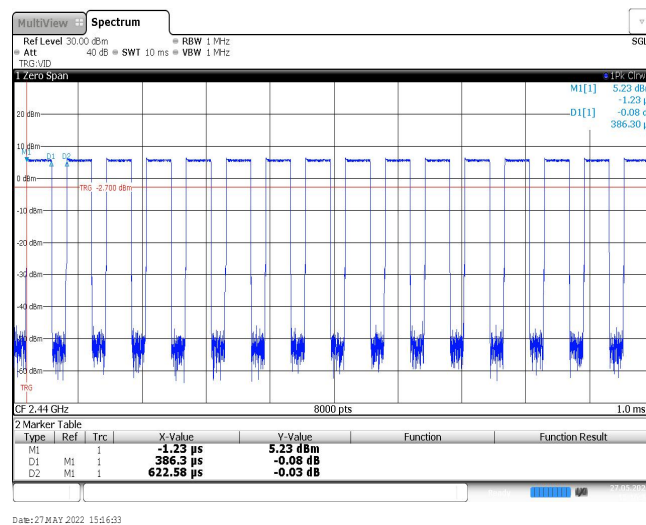
CH39



Date: 27 MAY 2022 15:20:11

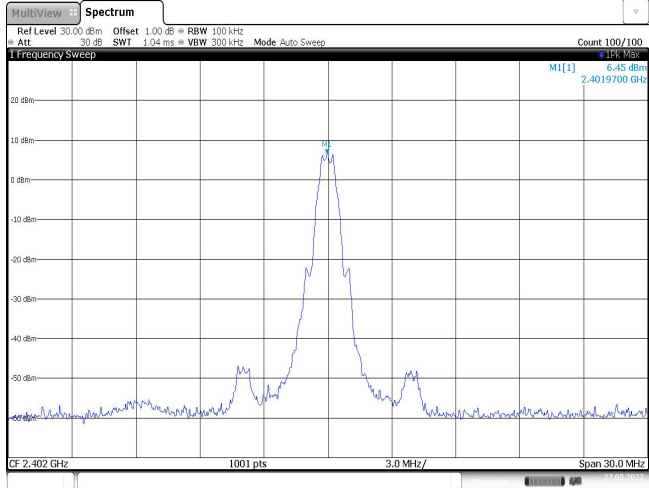
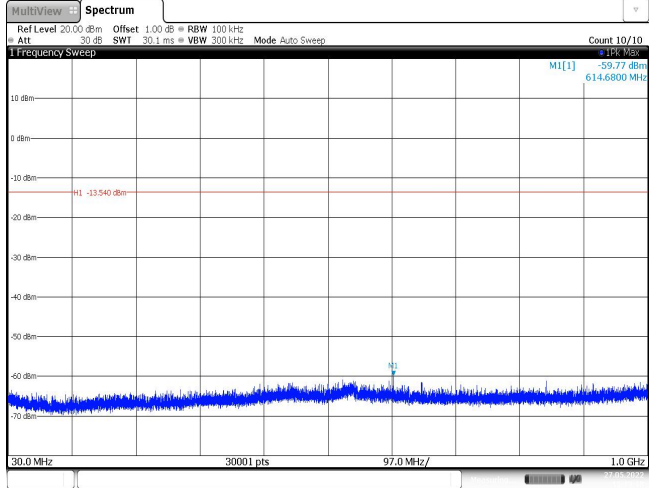
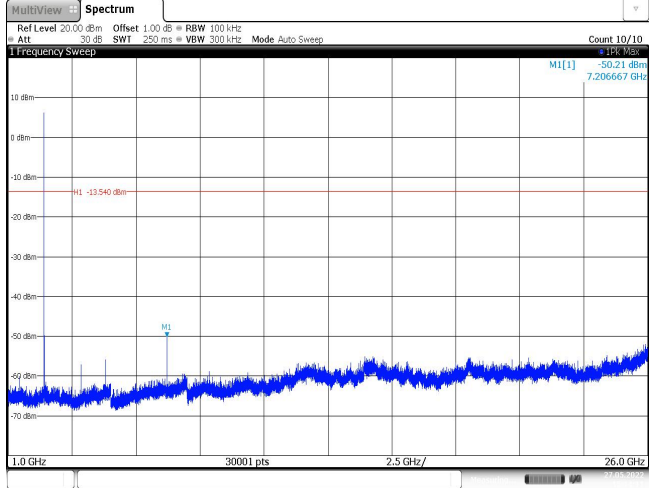
## Appendix E: Duty cycle

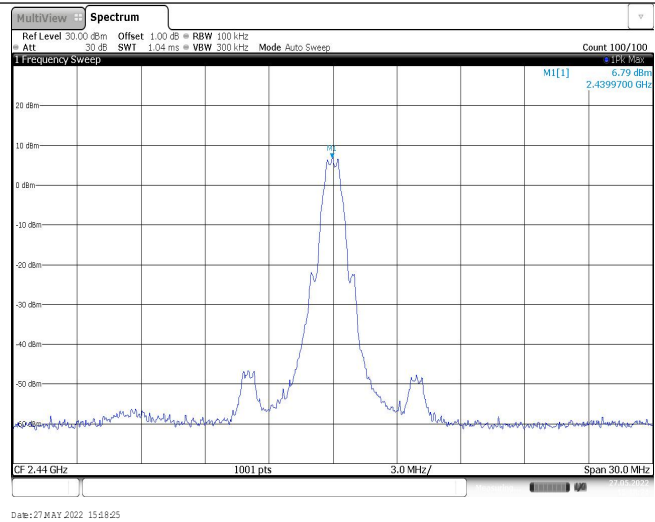
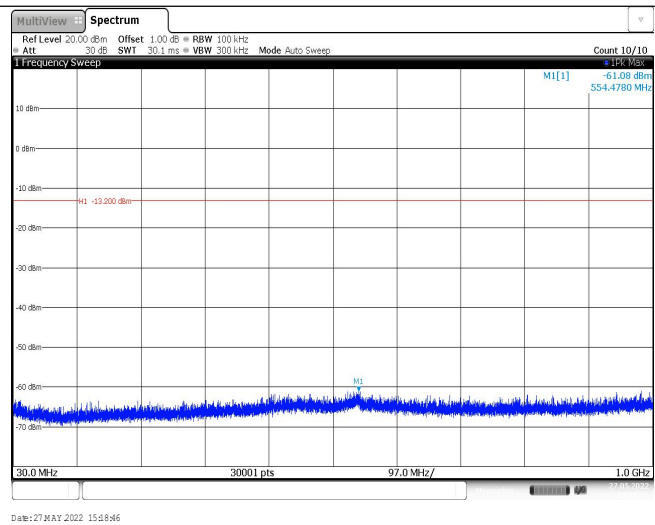
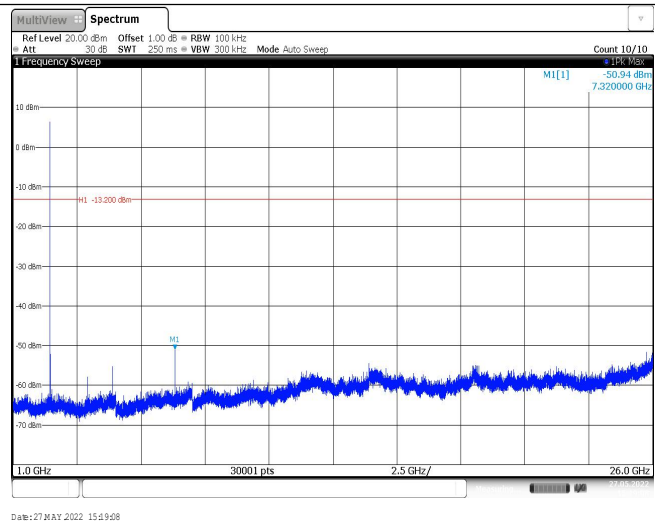
| Test Frequency<br>(MHz) | T <sub>on</sub> time for<br>single burst<br>(ms) | T <sub>period</sub> (ms) | Duty cycle | 1/T <sub>on</sub> time<br>(kHz) |
|-------------------------|--------------------------------------------------|--------------------------|------------|---------------------------------|
| 2440                    | 0.39                                             | 0.62                     | 62.9%      | 2.56                            |

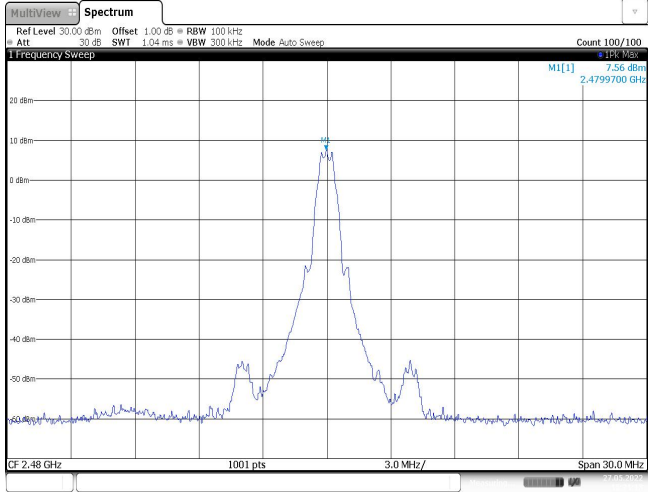
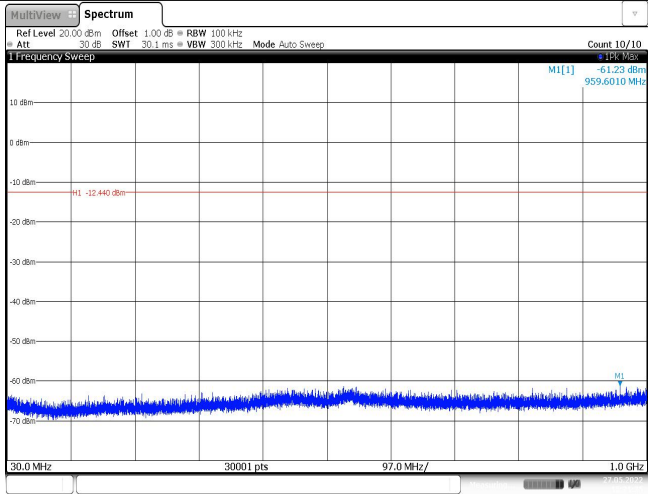
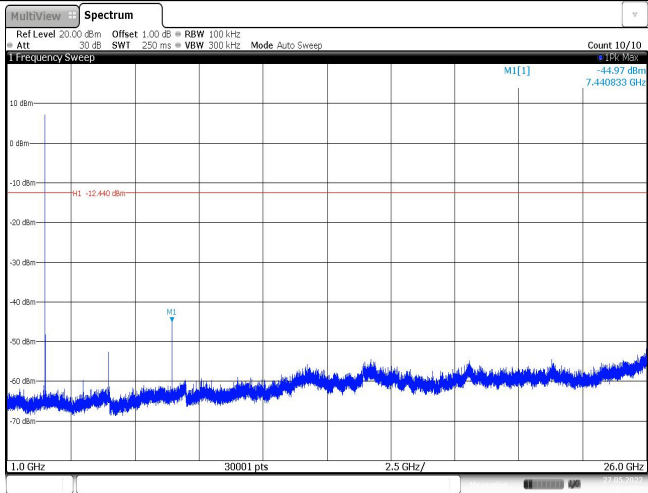


## Appendix F: Band edge and Spurious Emissions (conducted)

| Test Item: | Band edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |              |            |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|----------|-----------------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH00       | <div><div><div><div>MultiViewSpectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div><div>8 dBm</div><div>6.16 dBm</div><div>2.401916 GHz</div><div>-51.56 dBm</div><div>2.400000 GHz</div></div><div><div>10 dBm</div><div>-13.840 dBm</div></div><div><div>20 dBm</div></div><div><div>30 dBm</div></div><div><div>40 dBm</div></div><div><div>50 dBm</div></div><div><div>60 dBm</div></div><div><div>70 dBm</div></div><div><div>80 dBm</div></div></div><div><div>2.31 GHz</div><div>1001 pts</div><div>9.5 MHz/</div><div>2.405 GHz</div></div><div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.401916 GHz</td><td>6.16 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.56 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-70.14 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.48 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398065 GHz</td><td>-47.61 dBm</td><td></td><td></td></tr></table></div></div><div>Date: 27 MAY 2022 15:43:45</div></div> | Type | Ref          | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.401916 GHz | 6.16 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -51.56 dBm |  |  | M3 | 1 |  | 2.39 GHz | -70.14 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -73.48 dBm |  |  | M5 | 1 |  | 2.398065 GHz | -47.61 dBm |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trc  | X-Value      | Y-Value    | Function | Function Result |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.401916 GHz | 6.16 dBm   |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.4 GHz      | -51.56 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.39 GHz     | -70.14 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.31 GHz     | -73.48 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.398065 GHz | -47.61 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH39       | <div><div><div><div>MultiViewSpectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 100/100</div></div><div><div>1 Frequency Sweep</div><div><div>8 dBm</div><div>7.22 dBm</div><div>2.4799670 GHz</div><div>-52.12 dBm</div><div>2.4835000 GHz</div></div><div><div>10 dBm</div><div>-12.700 dBm</div></div><div><div>20 dBm</div></div><div><div>30 dBm</div></div><div><div>40 dBm</div></div><div><div>50 dBm</div></div><div><div>60 dBm</div></div><div><div>70 dBm</div></div><div><div>80 dBm</div></div></div><div><div>2.478 GHz</div><div>1001 pts</div><div>2.2 MHz/</div><div>2.5 GHz</div></div><div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.479967 GHz</td><td>7.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-52.12 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-71.50 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483896 GHz</td><td>-47.10 dBm</td><td></td><td></td></tr></table></div></div><div>Date: 27 MAY 2022 15:21:02</div></div>                                                                                           | Type | Ref          | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.479967 GHz | 7.22 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -52.12 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -71.50 dBm |  |  | M4 | 1 |  | 2.483896 GHz | -47.10 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trc  | X-Value      | Y-Value    | Function | Function Result |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.479967 GHz | 7.22 dBm   |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.4835 GHz   | -52.12 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.5 GHz      | -71.50 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2.483896 GHz | -47.10 dBm |          |                 |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

| Test Item:              | SE                                                                                                                     |
|-------------------------|------------------------------------------------------------------------------------------------------------------------|
| CH00<br>Reference level |  <p>Date: 27 MAY 2022 15:32:27</p>   |
| CH00<br>30MHz~1000MHz   |  <p>Date: 27 MAY 2022 15:33:48</p>  |
| CH00<br>1GHz~26GHz      |  <p>Date: 27 MAY 2022 15:44:11</p> |

CH19  
Reference levelCH19  
30MHz~1000MHzCH19  
1GHz~26GHz

|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH39<br>Reference level |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 100/100</p> <p>M1[1] 7.56 dBm 2.4799700 GHz</p> <p>CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 27 MAY 2022 15:21:14</p>                |
| CH39<br>30MHz~1000MHz   |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 10/10</p> <p>M1[1] -61.23 dBm 959.6010 MHz</p> <p>M1 -12.440 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 27 MAY 2022 15:21:35</p> |
| CH39<br>1GHz~26GHz      |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 10/10</p> <p>M1[1] -44.97 dBm 7.440833 GHz</p> <p>M1 -12.440 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 27 MAY 2022 15:21:58</p>  |

-----End of Report-----