

# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2104128003EW | Radio Specification | WIFI 2.4G     |
| Test sample No. | YPHT21041280017 | Model No.           | E3PDA         |
| Start test date | 2021-07-16      | Finish date         | 2021-07-16    |
| Temperature     | 24.7°C          | Humidity            | 35%           |
| Test Engineer   | Hailey Chen     | Auditor             | Xiaodong Zhao |

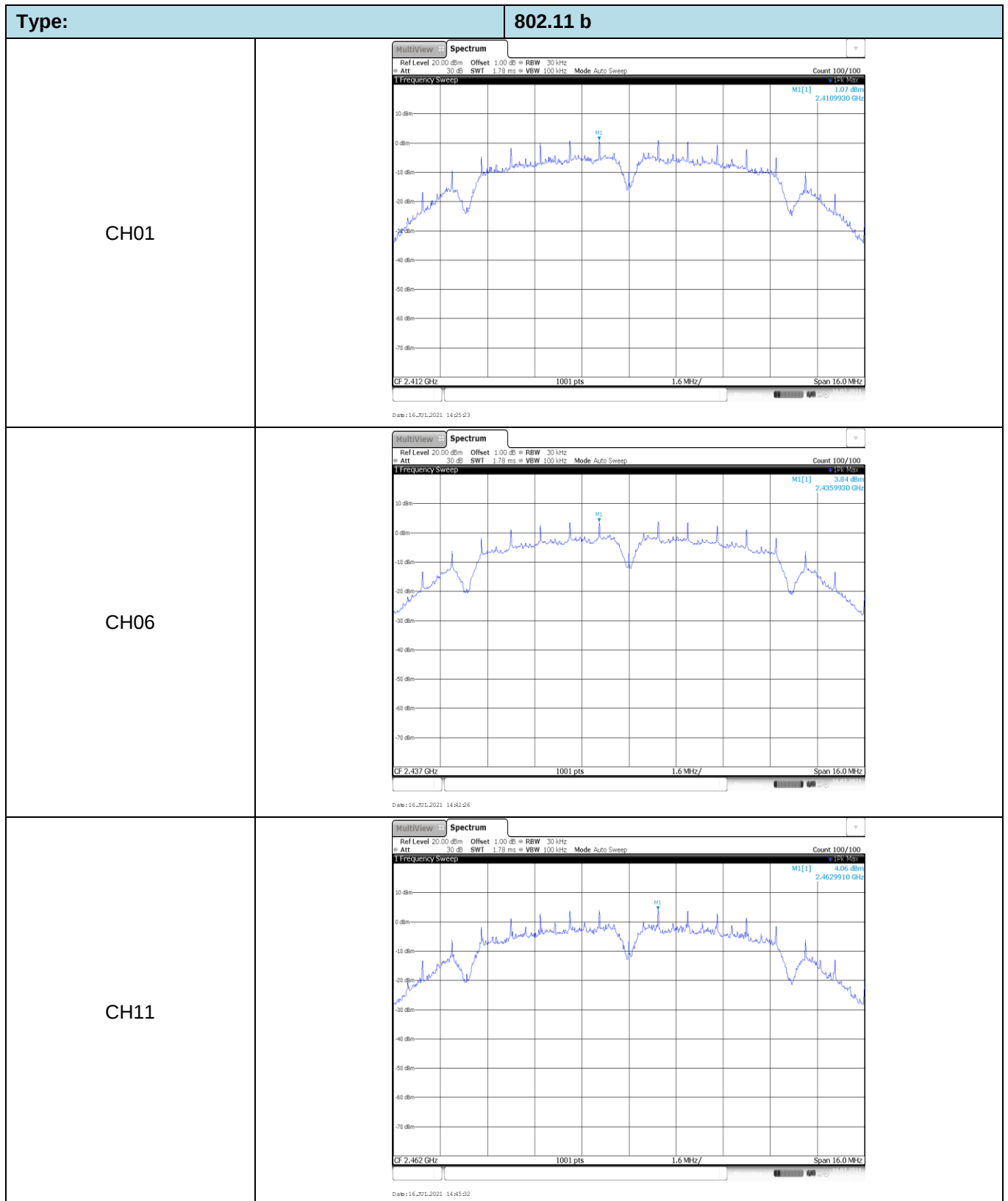
| Appendix clause | Test item                                    | Result |
|-----------------|----------------------------------------------|--------|
| A               | Conducted Peak Output Power                  | PASS   |
| B               | Power Spectral Density                       | PASS 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

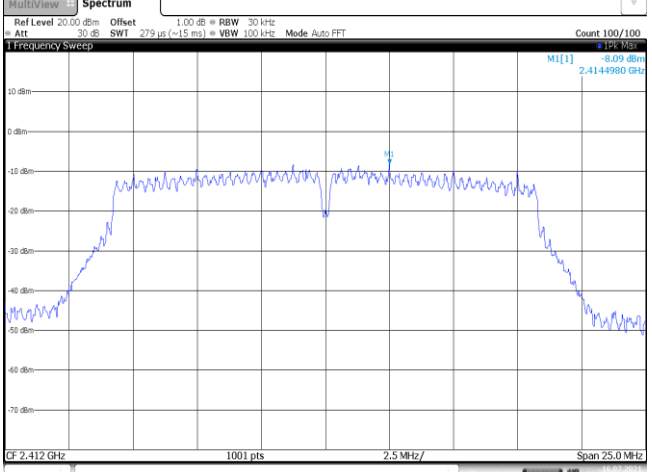
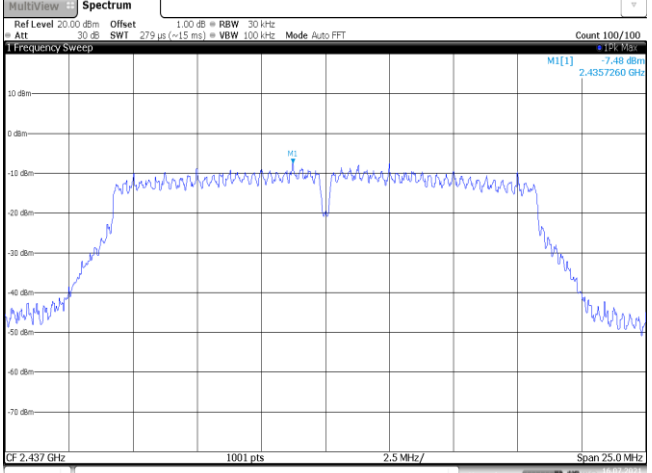
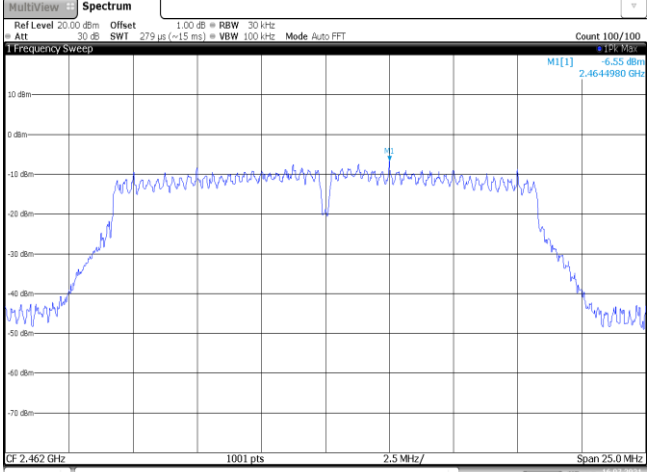
**Appendix A: Conducted Peak Output Power**

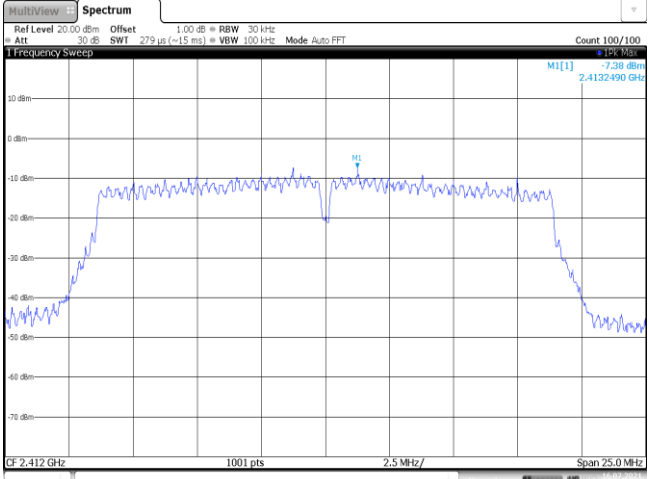
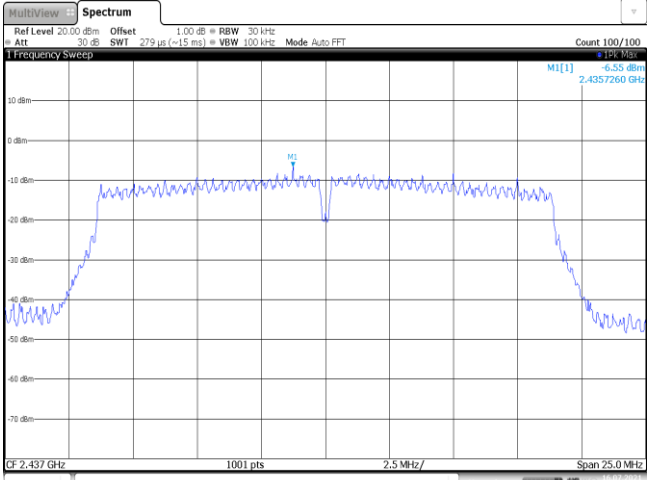
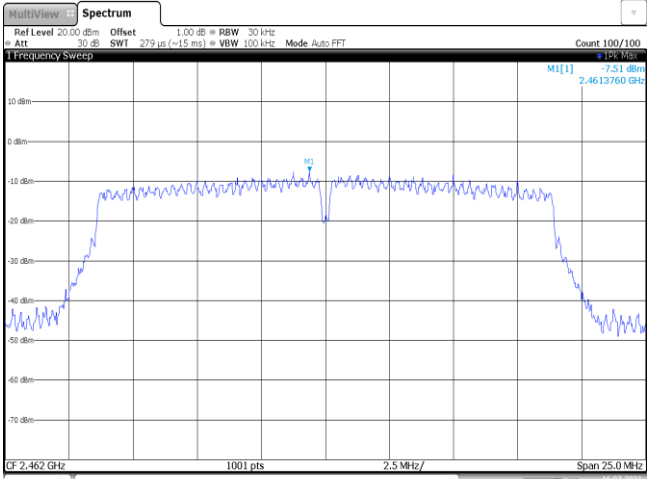
| Type              | Channel | Peak Output power (dBm) | Average Output power (dBm) | Limit (dBm)  | Result |
|-------------------|---------|-------------------------|----------------------------|--------------|--------|
| 802.11b           | 01      | 12.37                   | 9.90                       | $\leq 30.00$ | Pass   |
|                   | 06      | 15.66                   | 13.16                      |              |        |
|                   | 11      | 15.57                   | 13.12                      |              |        |
| 802.11g           | 01      | 15.85                   | 12.98                      | $\leq 30.00$ | Pass   |
|                   | 06      | 16.78                   | 14.05                      |              |        |
|                   | 11      | 16.56                   | 13.86                      |              |        |
| 802.11n<br>(HT20) | 01      | 15.86                   | 13.09                      | $\leq 30.00$ | Pass   |
|                   | 06      | 16.86                   | 14.22                      |              |        |
|                   | 11      | 16.55                   | 13.85                      |              |        |
| 802.11n(HT40)     | 03      | 15.61                   | 13.03                      | $\leq 30.00$ | Pass   |
|                   | 06      | 15.88                   | 13.33                      |              |        |
|                   | 09      | 16.06                   | 13.61                      |              |        |

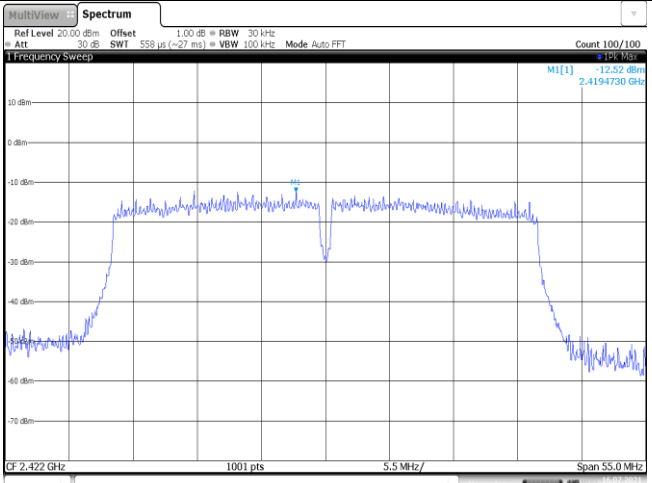
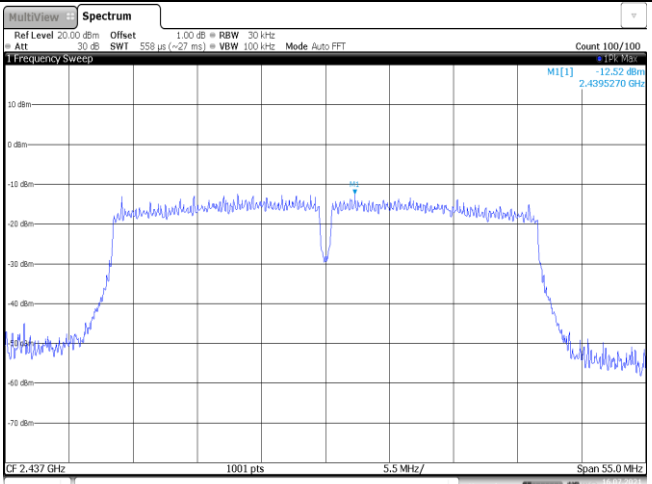
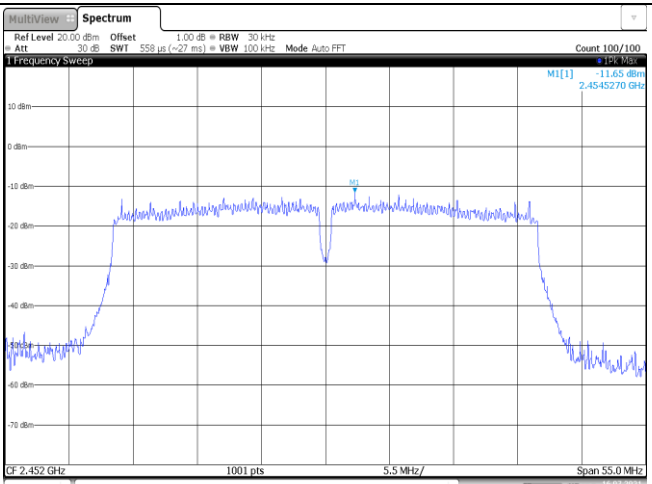
**Appendix B: Power Spectral Density**

| Type          | Channel | Power Spectral Density (dBm/30KHz) | Limit (dBm/3KHz) | Result |
|---------------|---------|------------------------------------|------------------|--------|
| 802.11b       | 01      | 1.07                               | ≤8.00            | Pass   |
|               | 06      | 3.84                               |                  |        |
|               | 11      | 4.06                               |                  |        |
| 802.11g       | 01      | -8.09                              | ≤8.00            | Pass   |
|               | 06      | -7.48                              |                  |        |
|               | 11      | -6.55                              |                  |        |
| 802.11n(HT20) | 01      | -7.38                              | ≤8.00            | Pass   |
|               | 06      | -6.55                              |                  |        |
|               | 11      | -7.51                              |                  |        |
| 802.11n(HT40) | 03      | -12.52                             | ≤8.00            | Pass   |
|               | 06      | -12.52                             |                  |        |
|               | 09      | -11.65                             |                  |        |



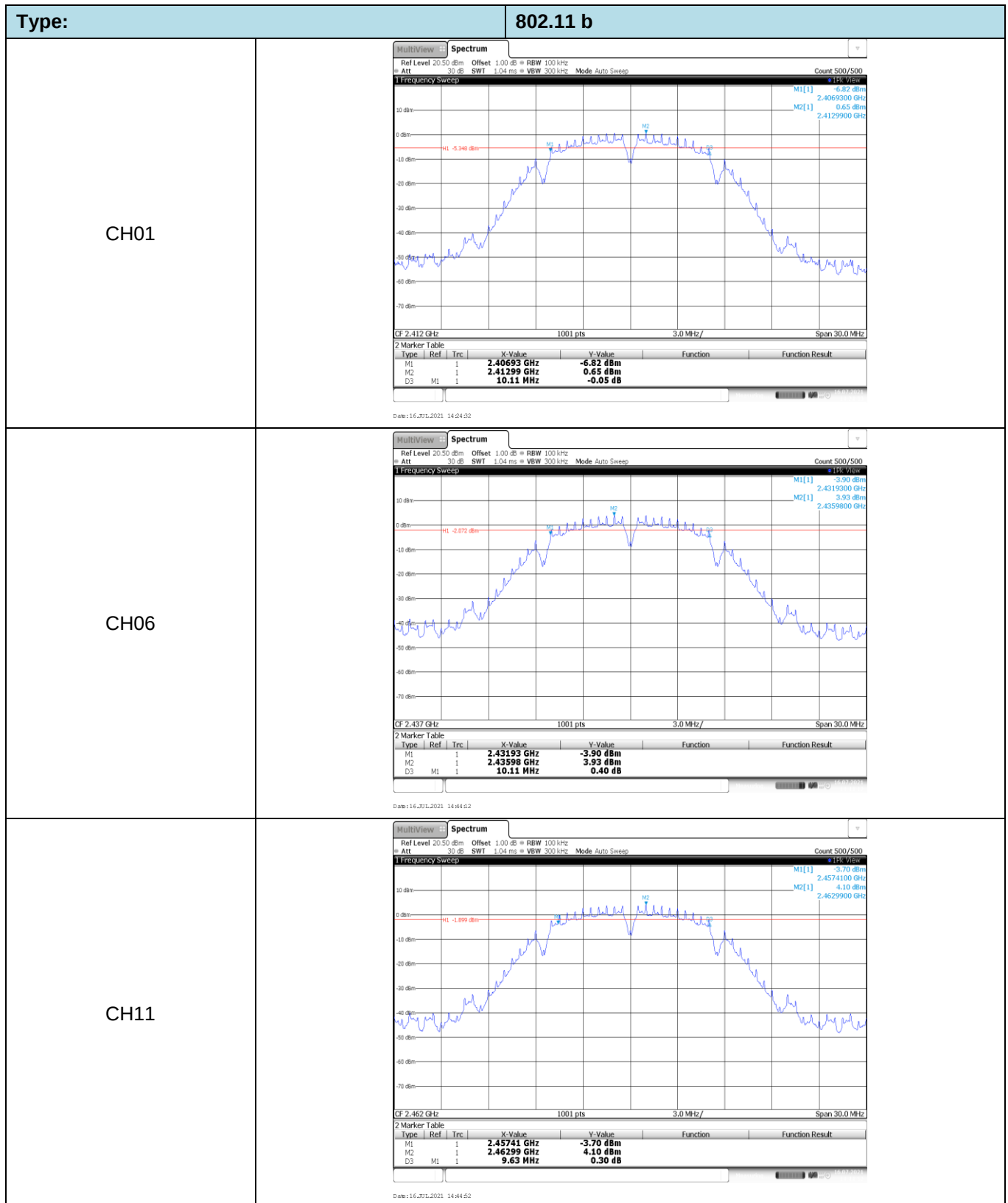
| Type: | 802.11 g                                                                                                                                                                                                                                                                                                                                    |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH01  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] -8.09 dBm<br/>2.414980 GHz<br/>CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16-Jul-2021 14:55:59</p>   |
| CH06  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] -7.48 dBm<br/>2.4357260 GHz<br/>CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16-Jul-2021 14:55:49</p> |
| CH11  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] -6.55 dBm<br/>2.464980 GHz<br/>CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16-Jul-2021 14:52:09</p> |

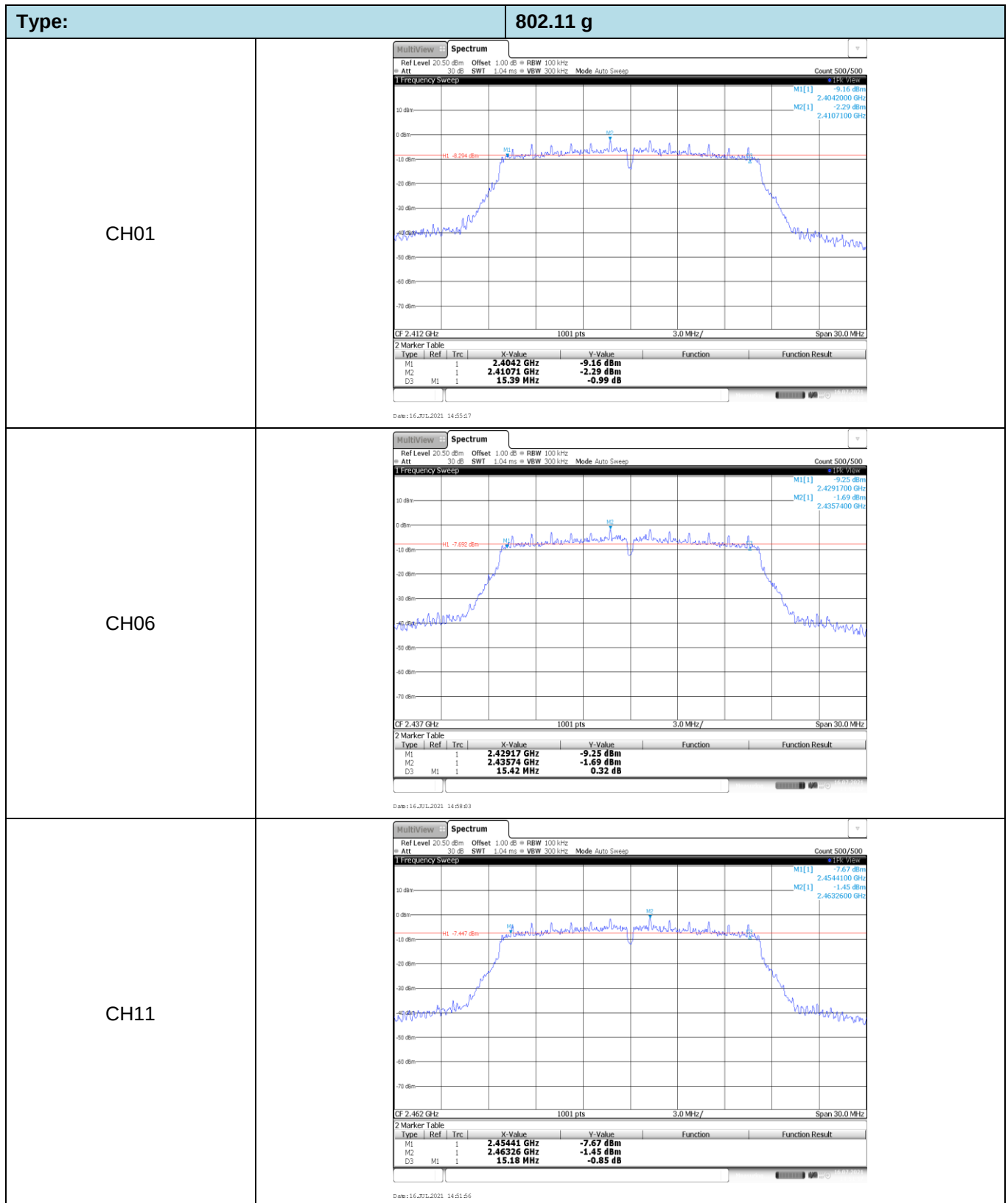
| Type: | 802.11n(HT20)                                                                                                                                                                                                                                                                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH01  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] 7.38 dBm<br/>2.4132490 GHz<br/>Date: 16-Jul-2021 15:11:55</p>    |
| CH06  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] -6.55 dBm<br/>2.4357260 GHz<br/>Date: 16-Jul-2021 15:05:07</p>  |
| CH11  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 us (~15 ms) VBW 100 kHz Mode Auto FFT<br/>Count 100/100<br/>MI[1] -7.51 dBm<br/>2.4613760 GHz<br/>Date: 16-Jul-2021 15:04:05</p> |

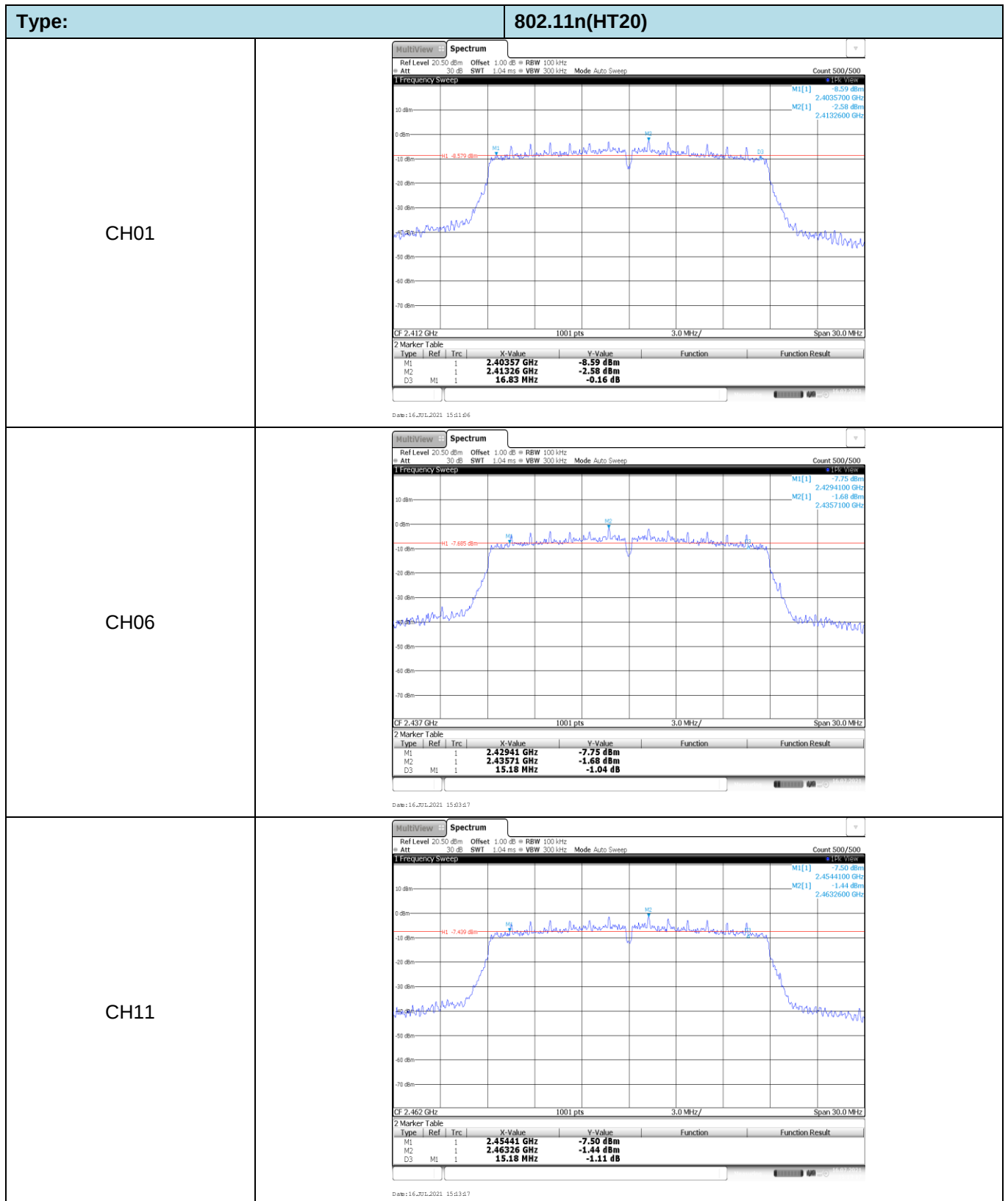
| Type: | 802.11n(HT40)                                                                                                                                                                                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH03  |  <p>Ref Level 20.00 dBm Offset 30 dB BW 1.00 MHz RBW 30 kHz SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100</p> <p>M1[1] -12.52 dBm 2.4194730 GHz</p> <p>CF 2.422 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 16-Jul-2021 15:18:49</p>   |
| CH06  |  <p>Ref Level 20.00 dBm Offset 30 dB BW 1.00 MHz RBW 30 kHz SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100</p> <p>M1[1] -11.65 dBm 2.4395270 GHz</p> <p>CF 2.437 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 16-Jul-2021 15:24:22</p>  |
| CH09  |  <p>Ref Level 20.00 dBm Offset 30 dB BW 1.00 MHz RBW 30 kHz SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT</p> <p>Count 100/100</p> <p>M1[1] -11.65 dBm 2.4545270 GHz</p> <p>CF 2.452 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz</p> <p>Date: 16-Jul-2021 15:26:40</p> |

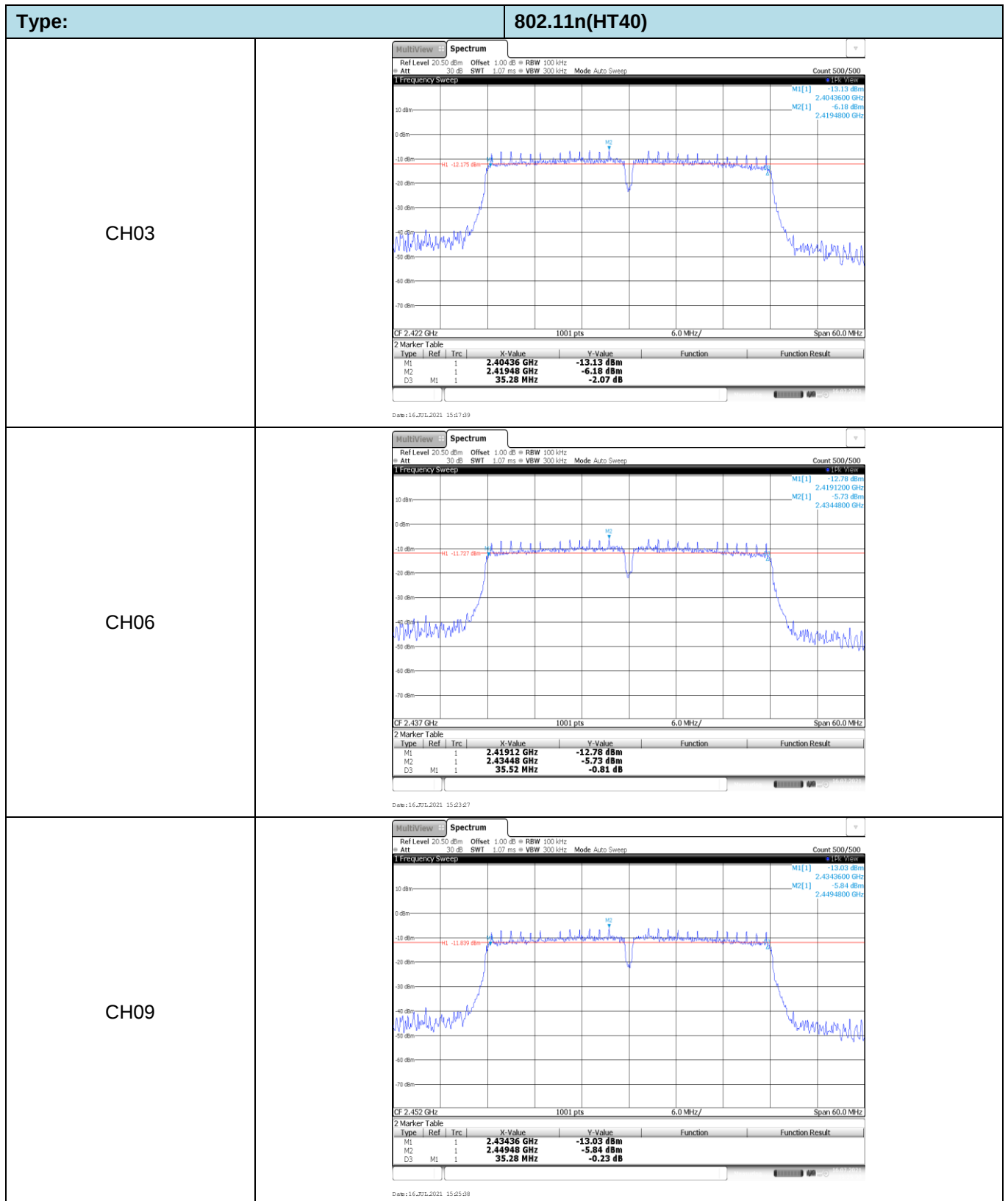
**Appendix C: 6dB bandwidth**

| Type          | Channel | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|---------------|---------|---------------------|-------------|--------|
| 802.11b       | 01      | 10.11               | ≥0.5        | Pass   |
|               | 06      | 10.11               |             |        |
|               | 11      | 9.63                |             |        |
| 802.11g       | 01      | 15.39               | ≥0.5        | Pass   |
|               | 06      | 15.42               |             |        |
|               | 11      | 15.18               |             |        |
| 802.11n(HT20) | 01      | 16.83               | ≥0.5        | Pass   |
|               | 06      | 15.18               |             |        |
|               | 11      | 15.18               |             |        |
| 802.11n(HT40) | 03      | 35.28               | ≥0.5        | Pass   |
|               | 06      | 35.52               |             |        |
|               | 09      | 35.28               |             |        |



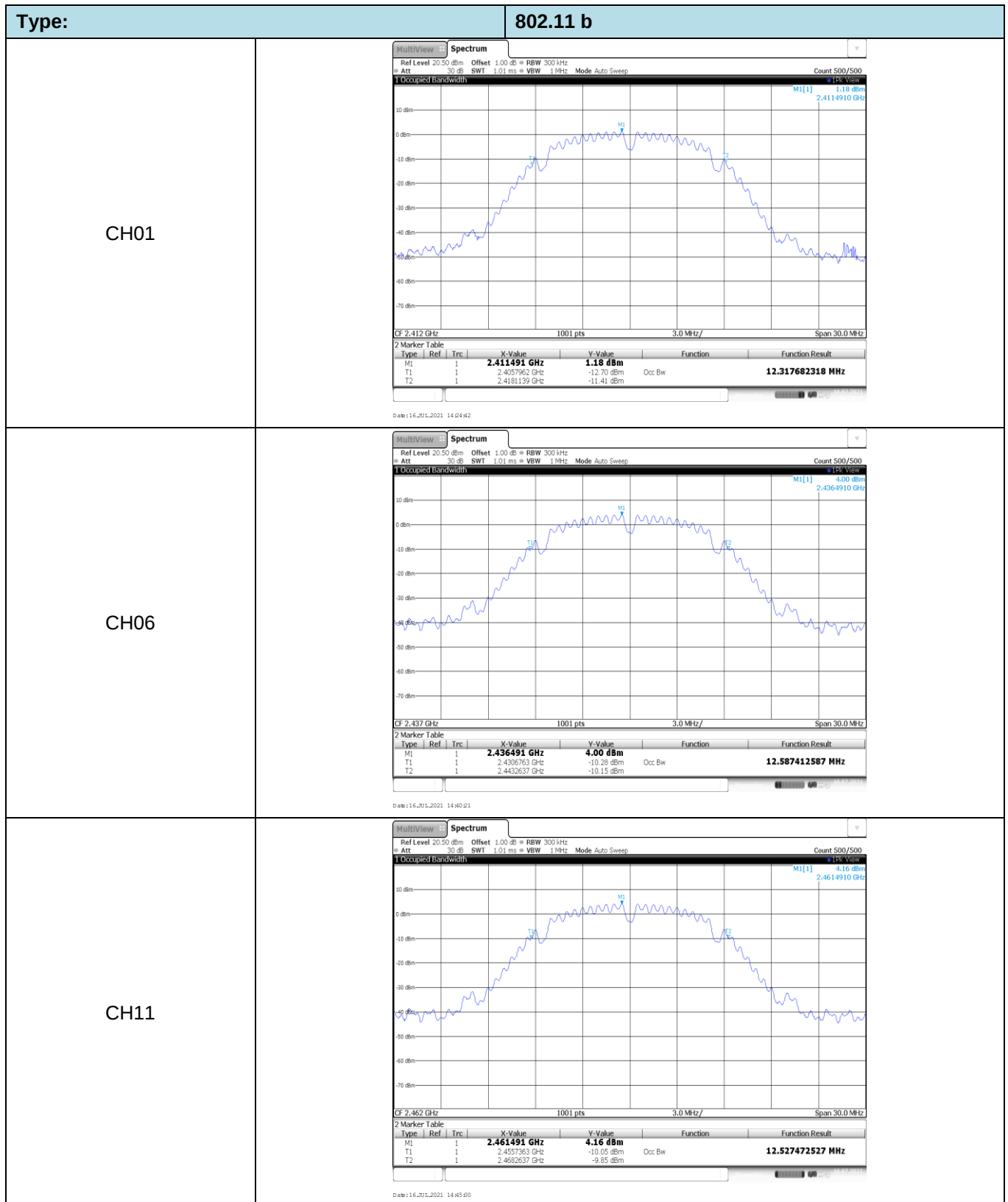


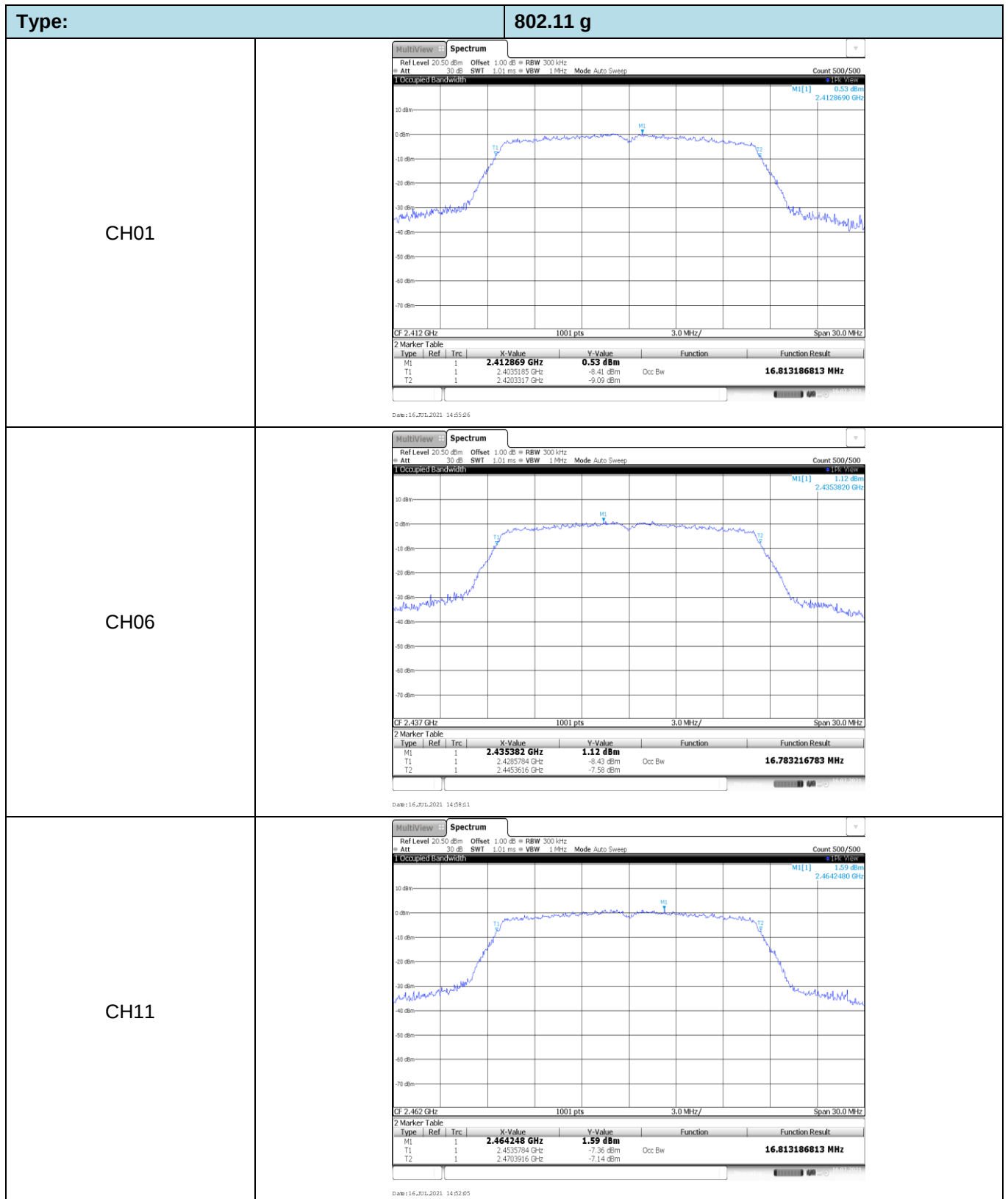


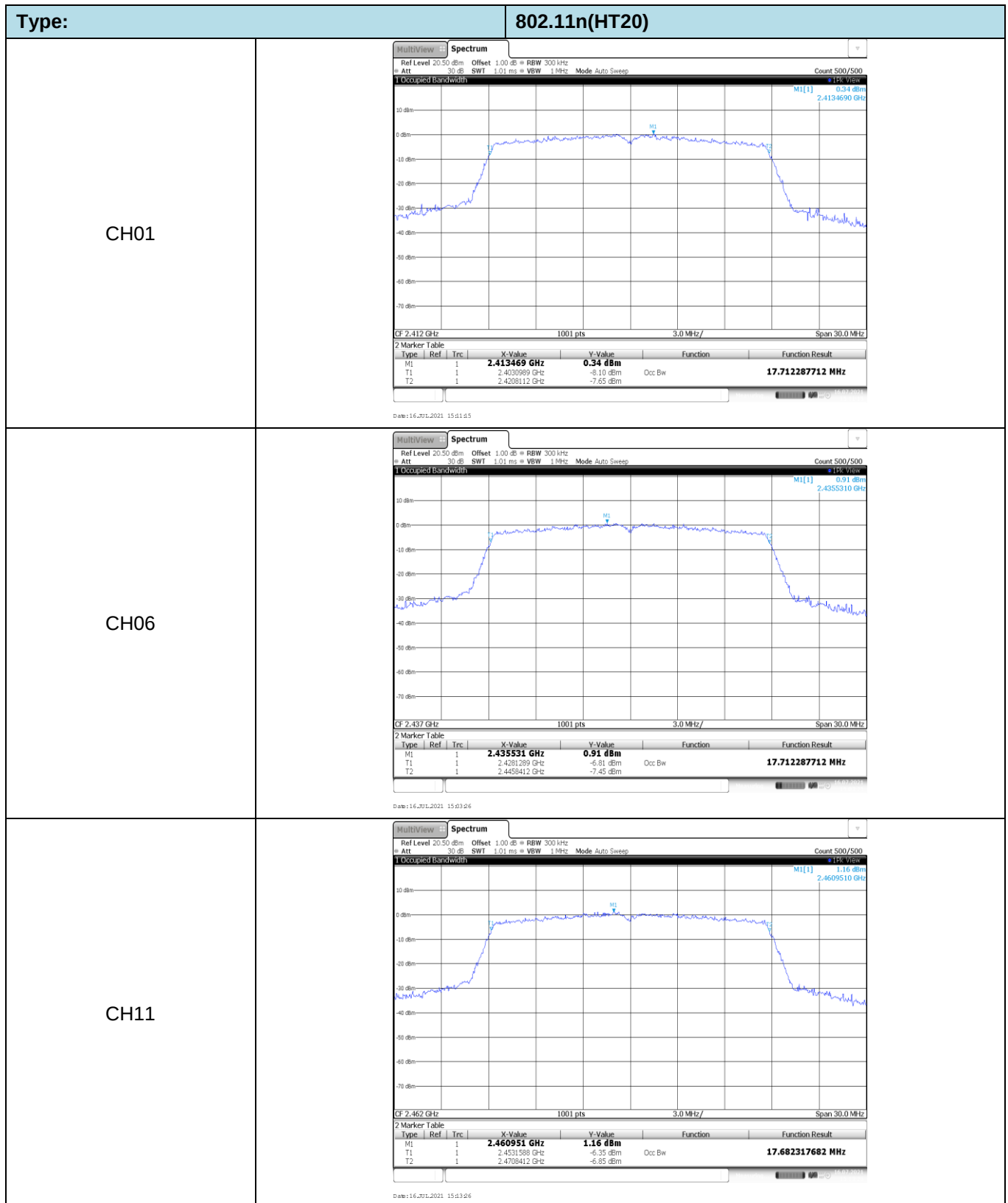


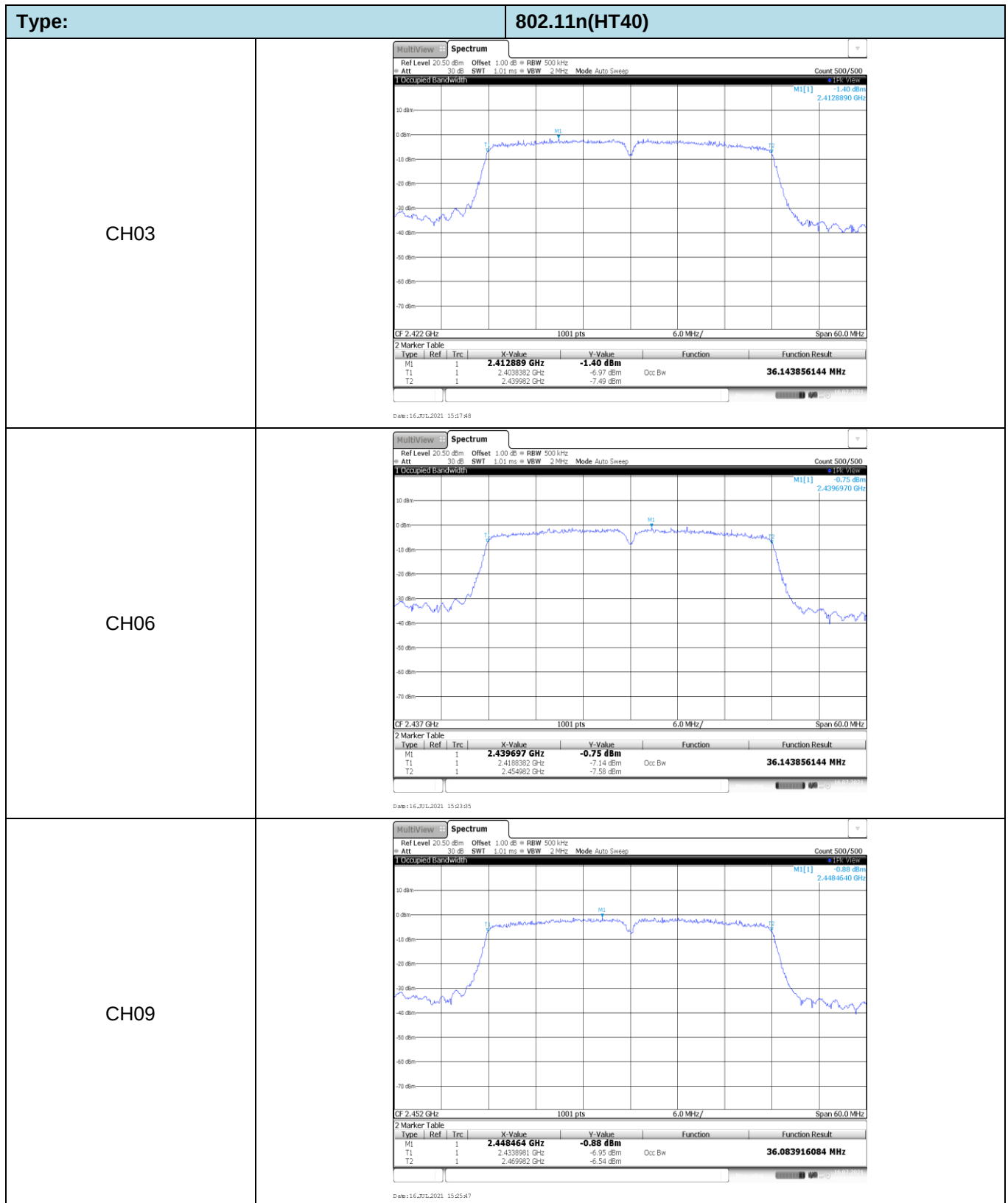
**Appendix D: 99% Occupied Bandwidth**

| Type          | Channel | 99% Bandwidth (MHz) | Limit (kHz) | Result |
|---------------|---------|---------------------|-------------|--------|
| 802.11b       | 01      | 12.32               | -           | Pass   |
|               | 06      | 12.59               |             |        |
|               | 11      | 12.53               |             |        |
| 802.11g       | 01      | 16.81               | -           | Pass   |
|               | 06      | 16.78               |             |        |
|               | 11      | 16.81               |             |        |
| 802.11n(HT20) | 01      | 17.71               | -           | Pass   |
|               | 06      | 17.71               |             |        |
|               | 11      | 17.68               |             |        |
| 802.11n(HT40) | 03      | 36.14               | -           | Pass   |
|               | 06      | 36.14               |             |        |
|               | 09      | 36.08               |             |        |





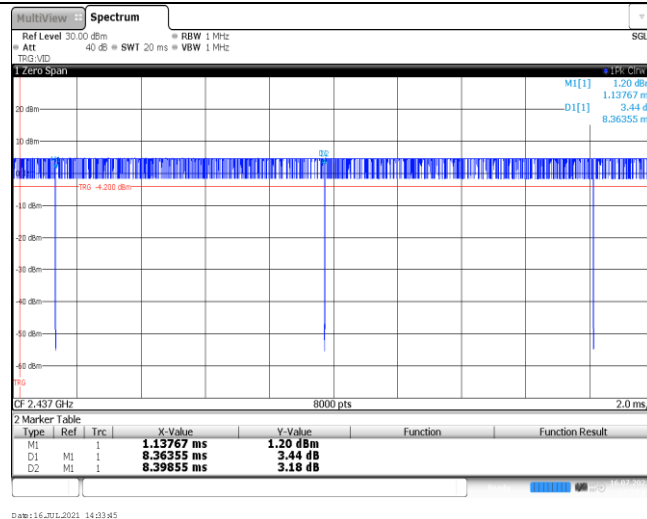




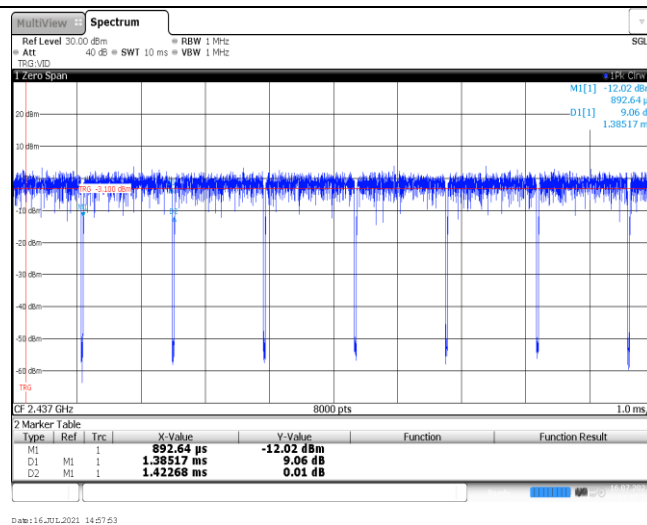
**Appendix E: Duty Cycle**

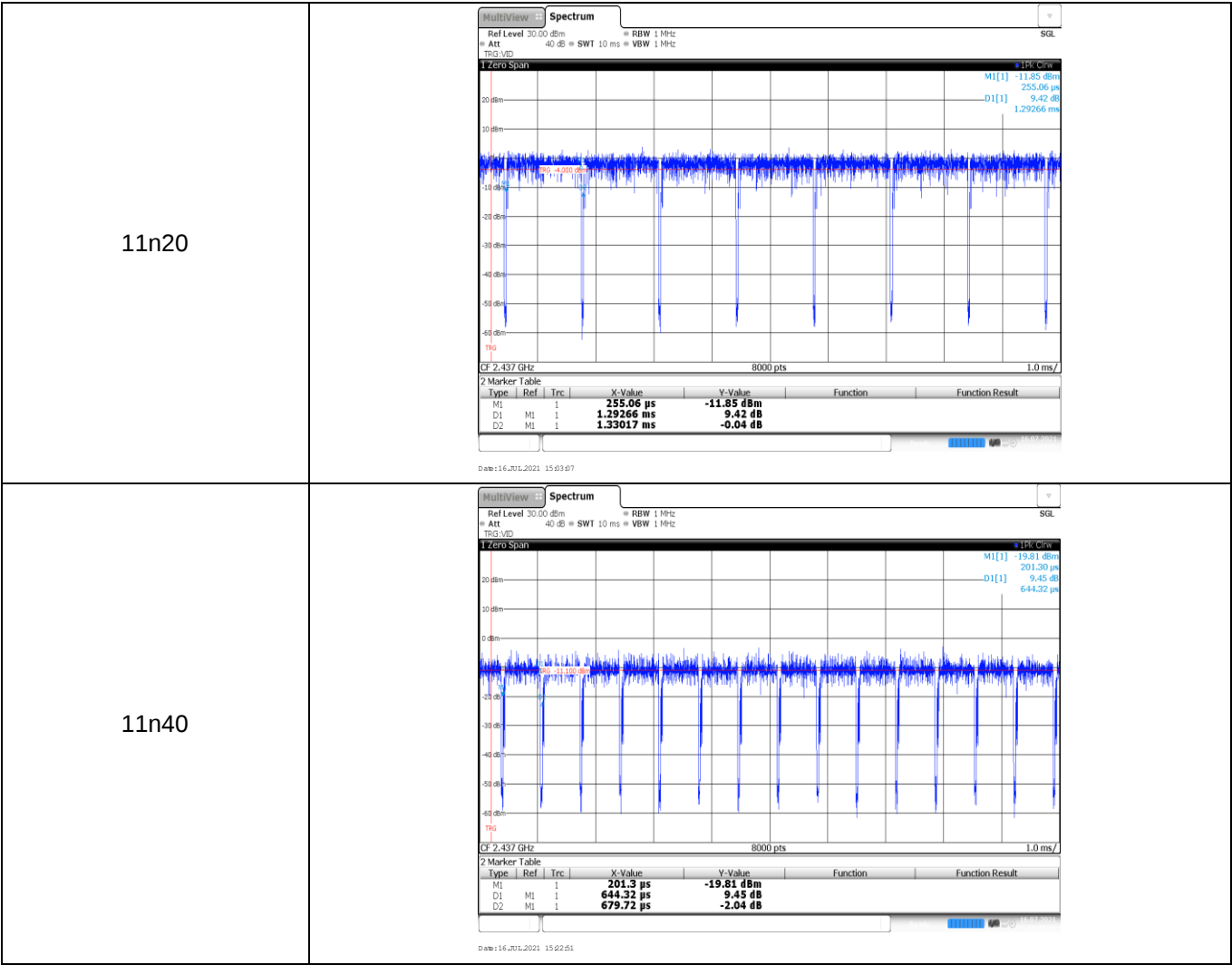
| Modulation Type | Test Frequency (MHz) | T <sub>on time</sub> for single burst (ms) | T <sub>period</sub> (ms) | Duty cycle | 1/T <sub>on time</sub> (kHz) |
|-----------------|----------------------|--------------------------------------------|--------------------------|------------|------------------------------|
| 11b             | 2437                 | 8.36                                       | 8.40                     | 99.5%      | 0.1                          |
| 11g             | 2437                 | 1.39                                       | 1.42                     | 97.9%      | 0.7                          |
| 11n20           | 2437                 | 1.29                                       | 1.33                     | 97.0%      | 0.8                          |
| 11n40           | 2437                 | 0.64                                       | 0.68                     | 94.1%      | 1.6                          |

11b

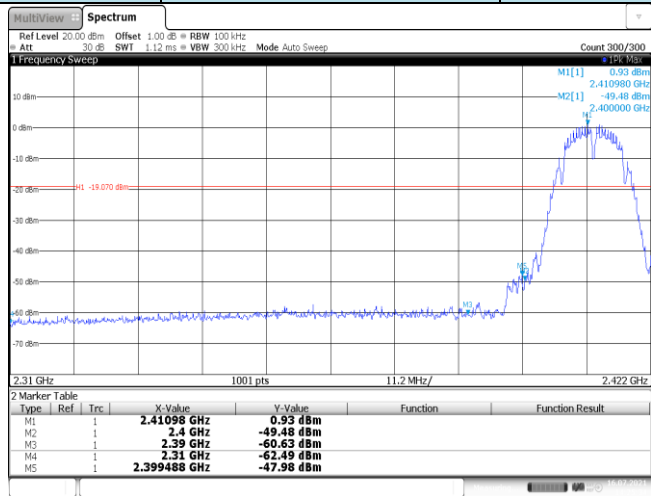
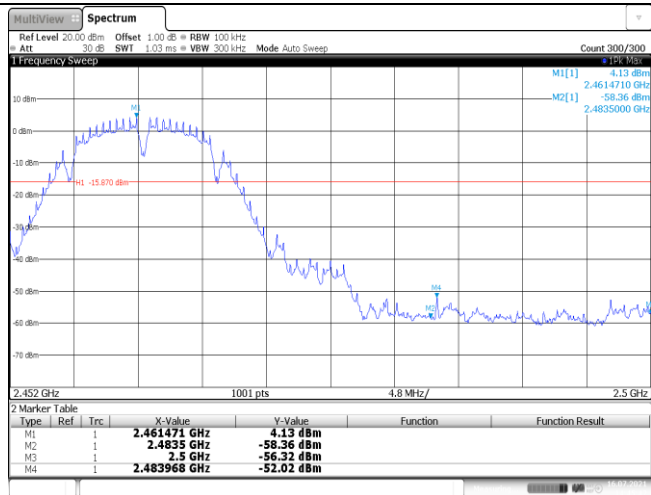


11g





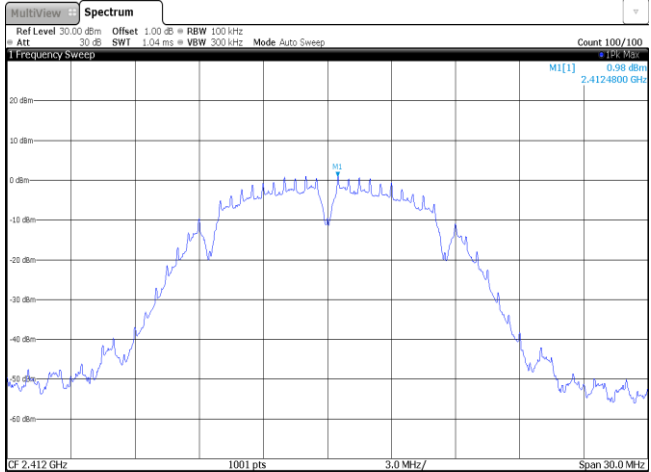
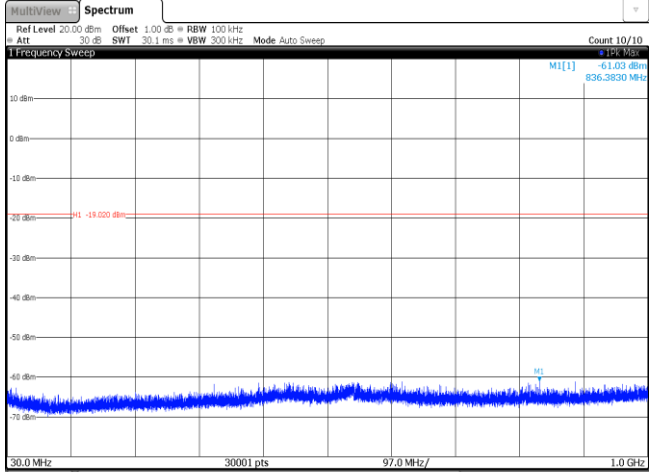
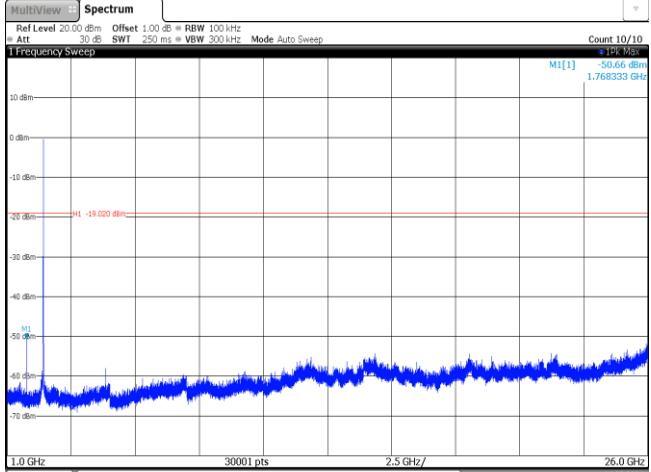
## Appendix F: Band edge and Spurious Emissions (conducted)

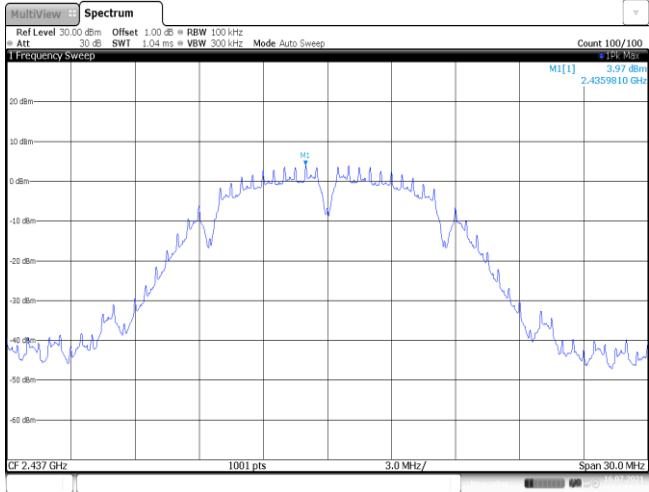
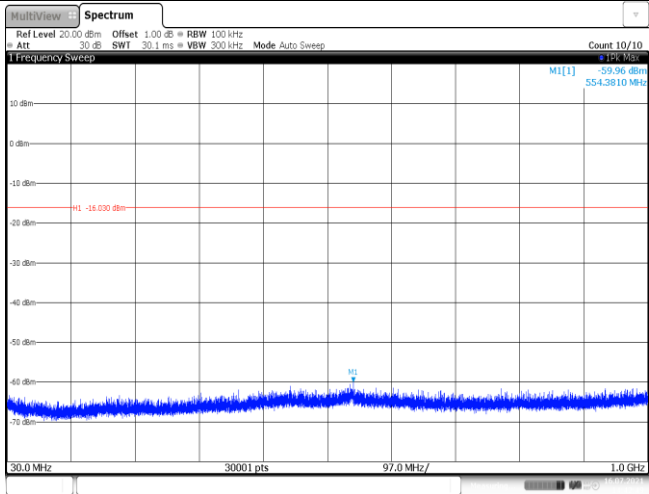
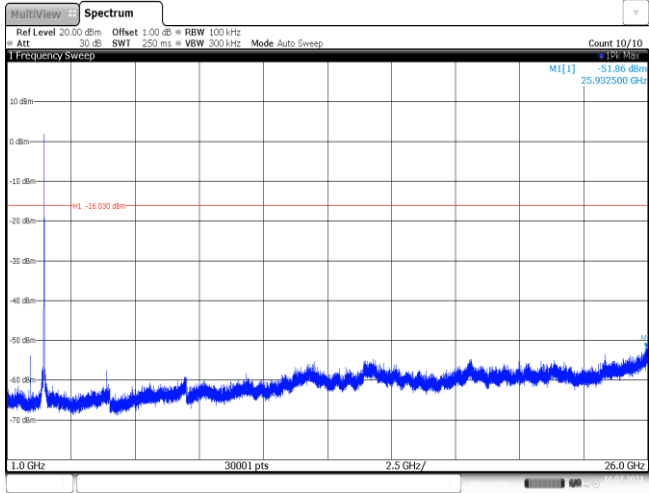
| Test Item: | Bandedge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type: | 802.11 b     |            |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH01       | <div><div>MultiviewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div></div><div>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</div><div>2 Marker Table</div><table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.41098 GHz</td><td>0.93 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-49.48 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-60.63 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-62.49 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399488 GHz</td><td>-47.98 dBm</td><td></td><td></td></tr></tbody></table></div> <div>Date: 16 JUL 2021 14:25:04</div> |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.41098 GHz  | 0.93 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -49.48 dBm |  |  | M3 | 1 |  | 2.39 GHz | -60.63 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -62.49 dBm |  |  | M5 | 1 |  | 2.399488 GHz | -47.98 dBm |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.41098 GHz  | 0.93 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.4 GHz      | -49.48 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.39 GHz     | -60.63 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.31 GHz     | -62.49 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.399488 GHz | -47.98 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH11       | <div><div>MultiviewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div></div><div>2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz</div><div>2 Marker Table</div><table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.461471 GHz</td><td>4.13 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.36 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.32 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483968 GHz</td><td>-52.02 dBm</td><td></td><td></td></tr></tbody></table></div> <div>Date: 16 JUL 2021 14:45:42</div>                                                                                            |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.461471 GHz | 4.13 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -58.36 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -56.32 dBm |  |  | M4 | 1 |  | 2.483968 GHz | -52.02 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.461471 GHz | 4.13 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.4835 GHz   | -58.36 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.5 GHz      | -56.32 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.483968 GHz | -52.02 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

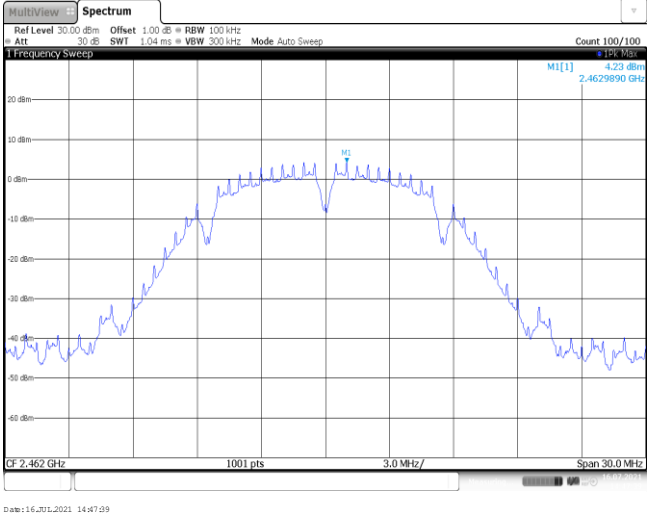
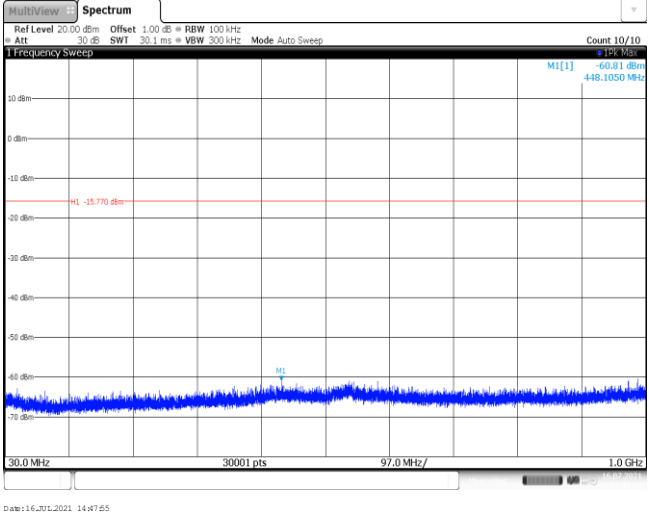
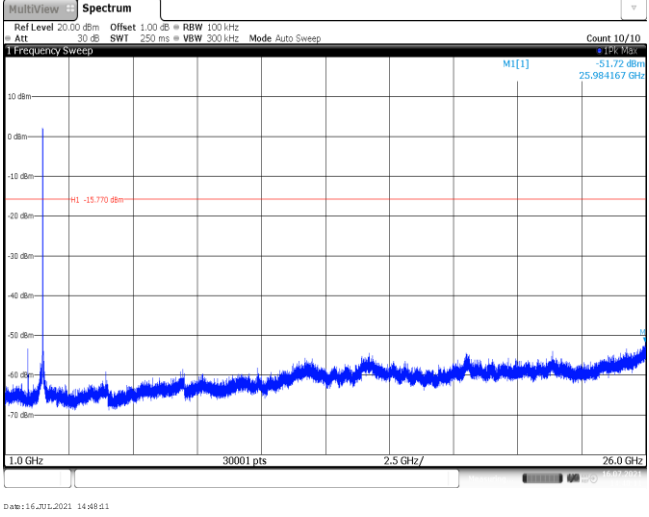
Appendix report page: 21 of 35

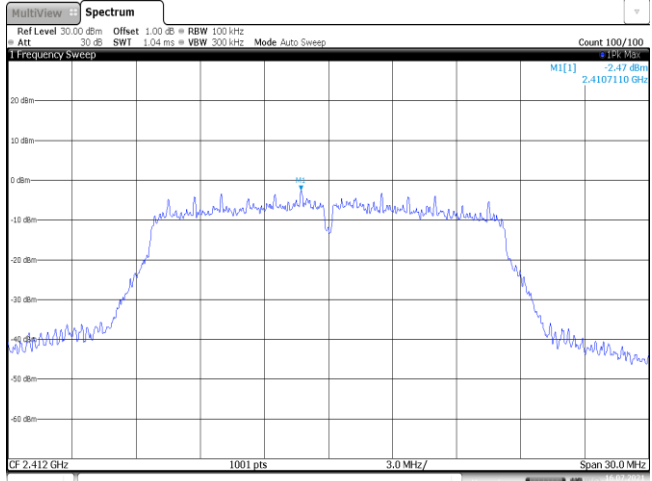
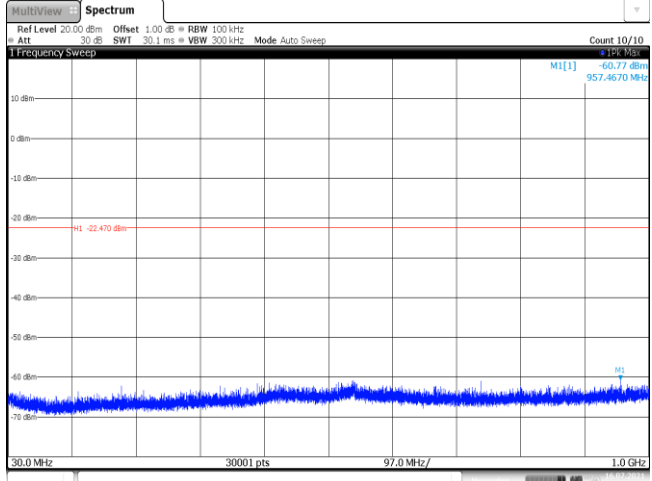
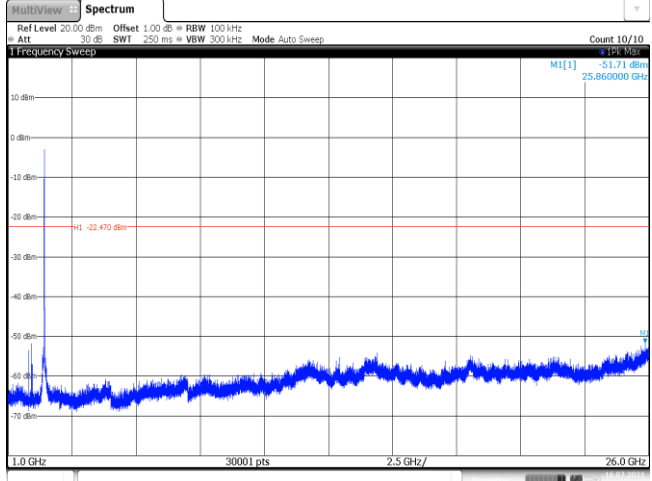
| Test Item: | Bandedge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Type: | 802.11 n(HT20) |            |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
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| CH01       | <div><div>MultViewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div><div>M1[1] -2.22 dBm<br/>M2[1] -36.98 dBm</div><div>2.41064 GHz<br/>2.400000 GHz</div><div>30 dBm<br/>-70 dBm</div><div>2.31 GHz 1001 pts 11.2 MHz/ 2.422 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>2.41064 GHz</td><td>-2.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-36.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-49.53 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-61.32 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399712 GHz</td><td>-35.16 dBm</td><td></td><td></td></tr></table></div><div>Date: 16-Jul-2021 15:12:05</div></div> |       |                | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.41064 GHz  | -2.22 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -36.98 dBm |  |  | M3 | 1 |  | 2.39 GHz | -49.53 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -61.32 dBm |  |  | M5 | 1 |  | 2.399712 GHz | -35.16 dBm |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Trc   | X-Value        | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.41064 GHz    | -2.22 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.4 GHz        | -36.98 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.39 GHz       | -49.53 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.31 GHz       | -61.32 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.399712 GHz   | -35.16 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH11       | <div><div>MultViewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div><div>M1[1] -1.33 dBm<br/>M2[1] -51.03 dBm</div><div>2.460751 GHz<br/>2.4835000 GHz</div><div>30 dBm<br/>-70 dBm</div><div>2.452 GHz 1001 pts 4.8 MHz/ 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>2.460751 GHz</td><td>-1.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-51.03 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.33 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.492032 GHz</td><td>-50.21 dBm</td><td></td><td></td></tr></table></div><div>Date: 16-Jul-2021 15:14:14</div></div>                                                                                           |       |                | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.460751 GHz | -1.33 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -51.03 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -56.33 dBm |  |  | M4 | 1 |  | 2.492032 GHz | -50.21 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Trc   | X-Value        | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.460751 GHz   | -1.33 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.4835 GHz     | -51.03 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.5 GHz        | -56.33 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 2.492032 GHz   | -50.21 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

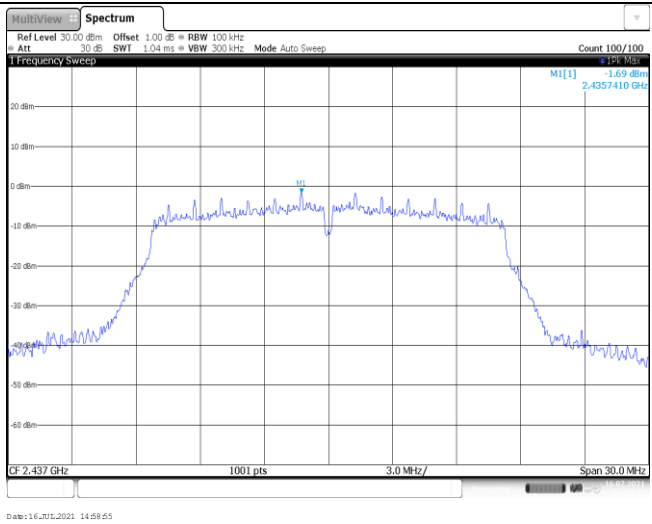
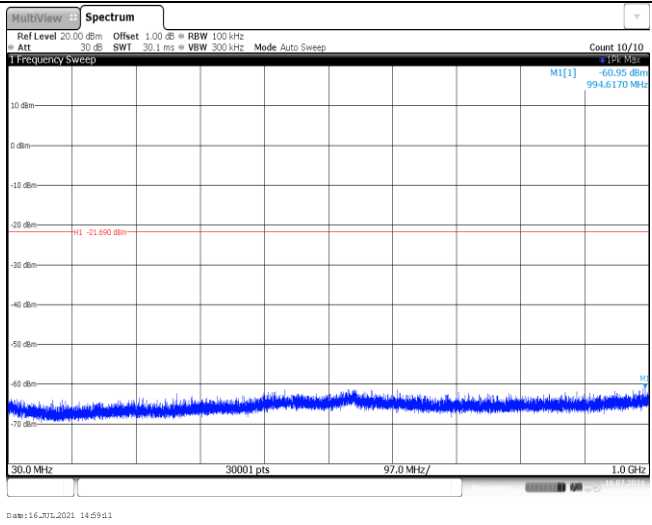
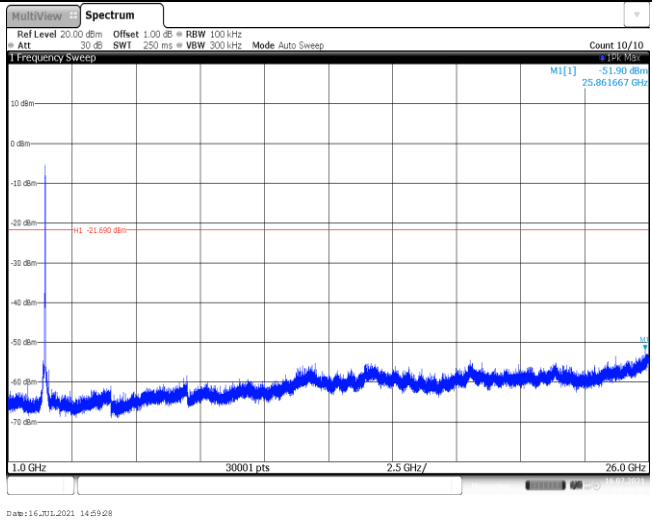
| Test Item: | Bandedge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Type: | 802.11 n(HT40) |
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| CH03       | 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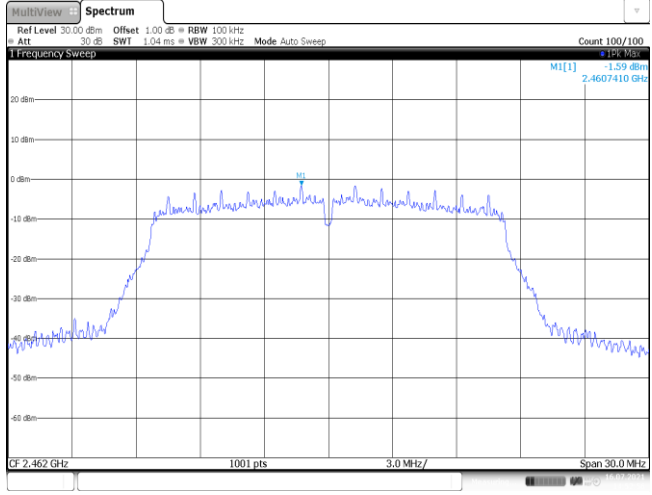
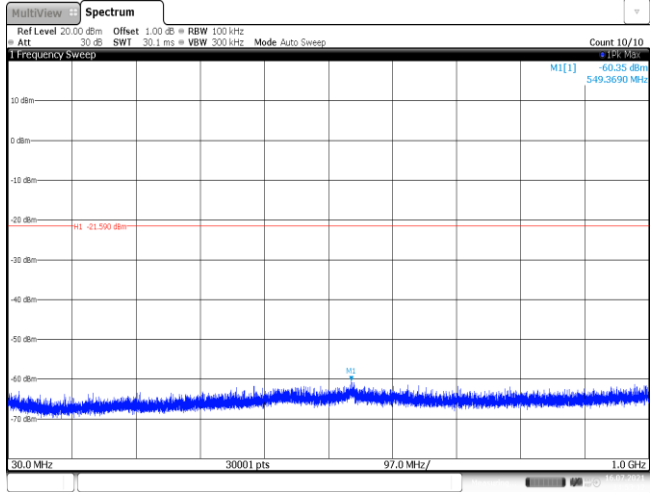
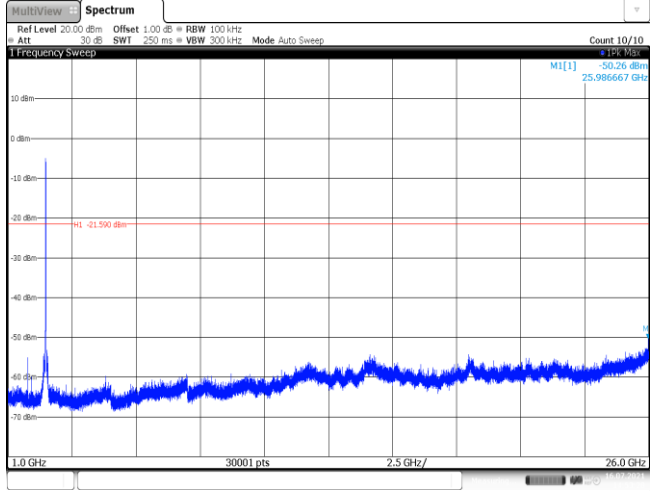
| Test Item:              | SE | Type:                                                                                                                                                                                                                              | 802.11b |
|-------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CH01<br>Reference level |    |  <p>Count 100/100</p> <p>M1[1] 0.98 dBm<br/>2.4124800 GHz</p> <p>2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 16-Jul-2021 14:25:41</p> |         |
| CH01<br>30MHz~1000MHz   |    |  <p>Count 10/10</p> <p>M1[1] -61.03 dBm<br/>836.2830 MHz</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 16-Jul-2021 14:25:57</p>      |         |
| CH01<br>1GHz~26GHz      |    |  <p>Count 10/10</p> <p>M1[1] -50.66 dBm<br/>1.766533 GHz</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 16-Jul-2021 14:26:13</p>      |         |

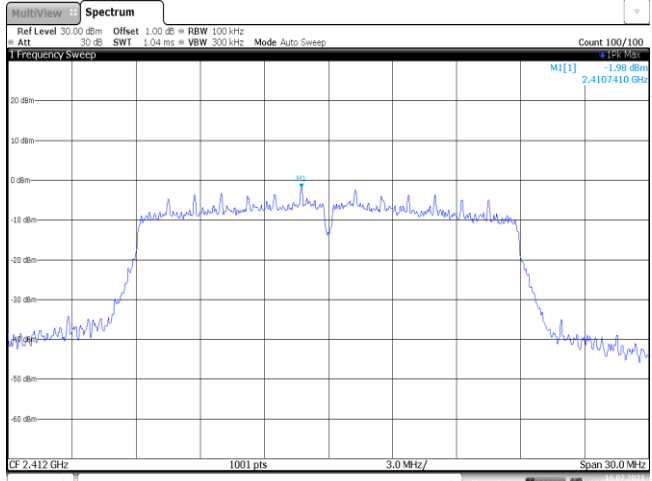
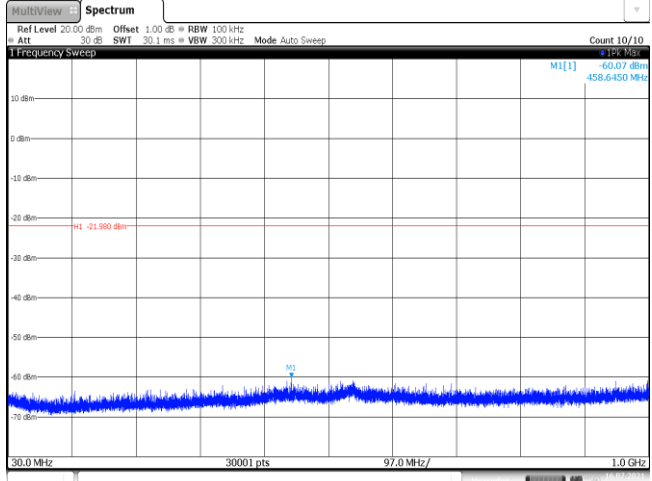
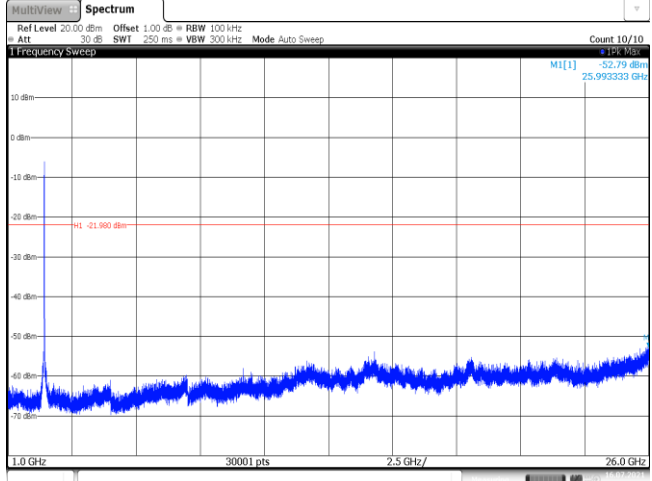
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CH06<br/>Reference level</p> |  <p>The spectrum plot shows a signal centered at 2.437 GHz with a span of 30.0 MHz. The y-axis represents power in dBm, ranging from -60 to 20. The signal is a broad peak with some noise. The x-axis shows 1001 points and a resolution of 3.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 1.04 ms, VSW 300 kHz, Mode Auto Sweep. The date is 16 JUL 2021 14:42:03.</p>       |
| <p>CH06<br/>30MHz~1000MHz</p>   |  <p>The spectrum plot shows a signal centered at 554.3810 MHz with a span of 30.0 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The signal is a broad peak with some noise. The x-axis shows 30001 points and a resolution of 97.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 30.1 ms, VSW 300 kHz, Mode Auto Sweep. The date is 16 JUL 2021 14:42:49.</p> |
| <p>CH06<br/>1GHz~26GHz</p>      |  <p>The spectrum plot shows a signal centered at 25.932500 GHz with a span of 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The signal is a broad peak with some noise. The x-axis shows 30001 points and a resolution of 2.5 GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 250 ms, VSW 300 kHz, Mode Auto Sweep. The date is 16 JUL 2021 14:43:05.</p>  |

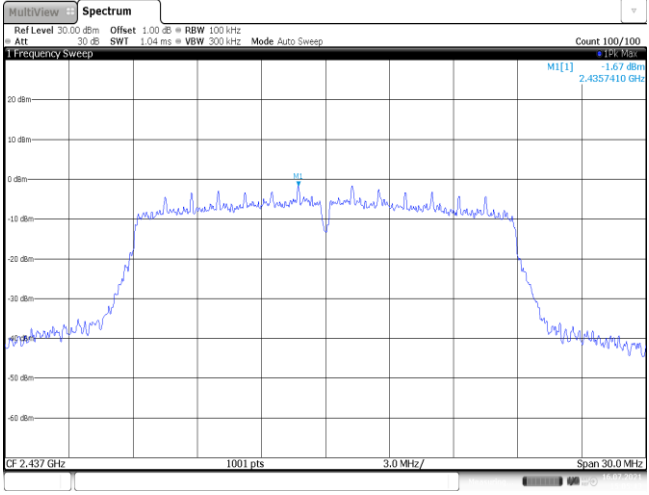
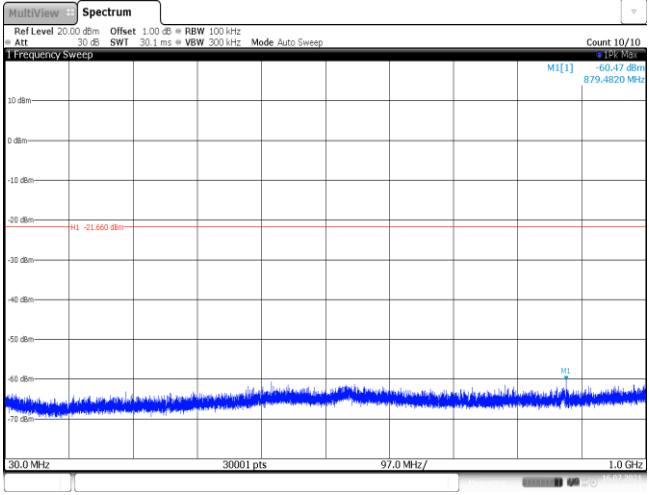
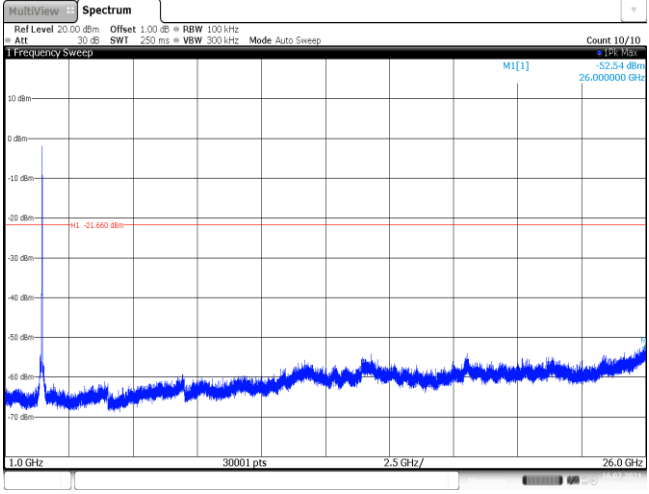
|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| CH11<br>Reference level |    |
| CH11<br>30MHz~1000MHz   |   |
| CH11<br>1GHz~26GHz      |  |

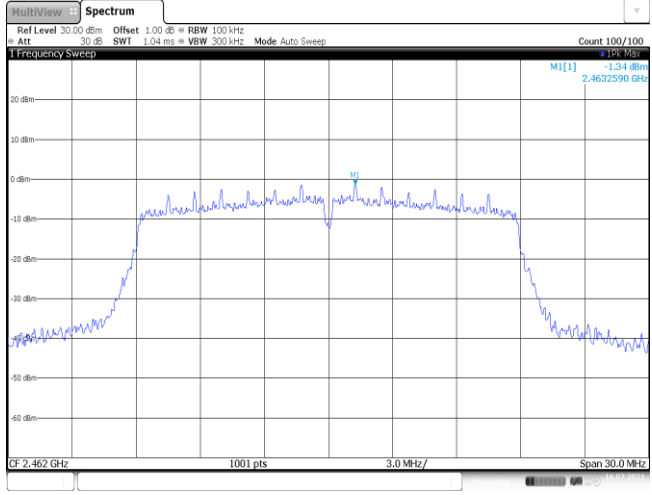
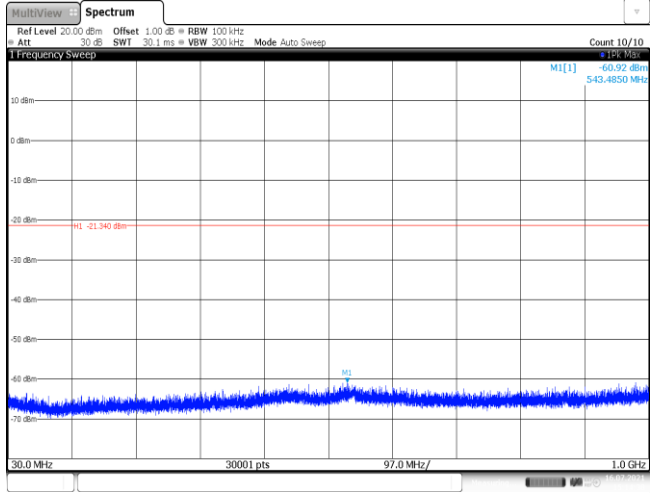
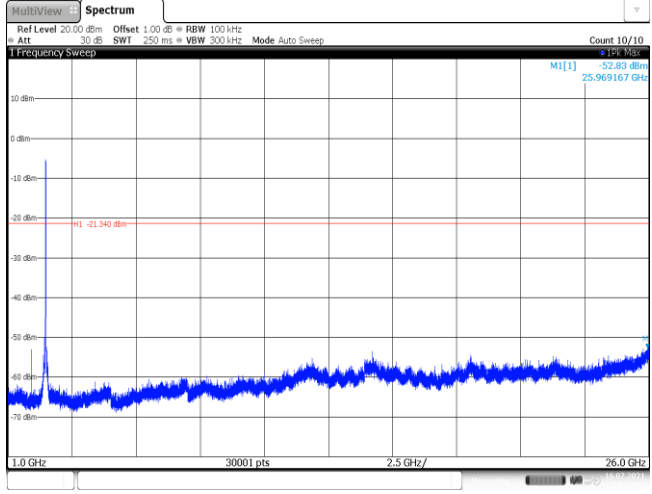
| Test Item:              | SE | Type:                                                                                                                                                                                                                                                                                                                     | 802.11g |
|-------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CH01<br>Reference level |    |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100</p> <p>MI[1] 2.417 dBm 2.4107110 GHz</p> <p>Span 30.0 MHz 1001 pts 3.0 MHz/pt</p> <p>Date: 16-Jul-2021 14:56:16</p>  |         |
| CH01<br>30MHz~1000MHz   |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>MI[1] -60.77 dBm 957.4670 MHz</p> <p>Span 97.0 MHz 30001 pts 97.0 MHz/pt</p> <p>Date: 16-Jul-2021 14:56:02</p> |         |
| CH01<br>1GHz~26GHz      |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>MI[1] -51.71 dBm 25.860000 GHz</p> <p>Span 2.5 GHz 30001 pts 2.5 GHz/pt</p> <p>Date: 16-Jul-2021 14:56:49</p>  |         |

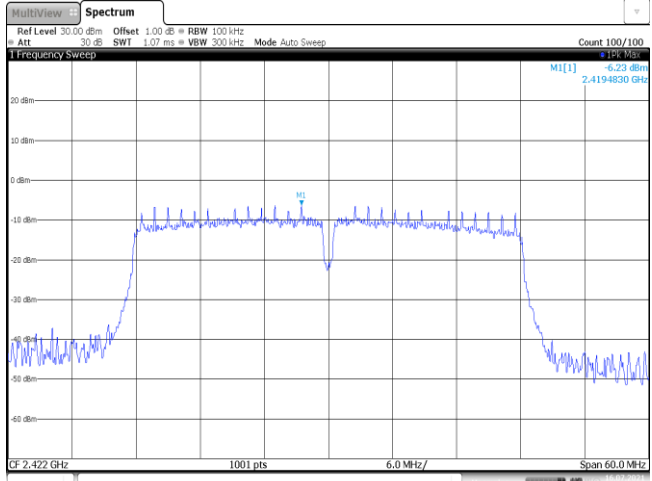
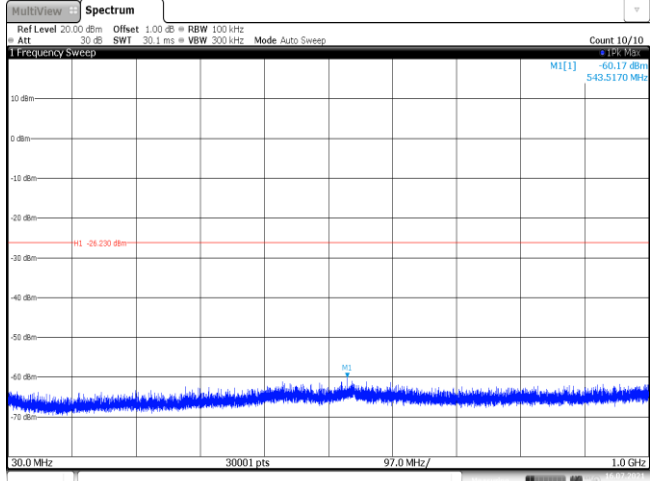
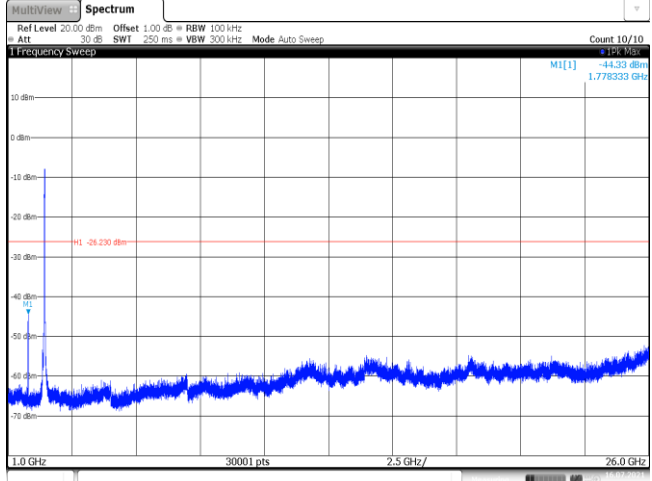
|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| CH06<br>Reference level |    |
| CH06<br>30MHz~1000MHz   |   |
| CH06<br>1GHz~26GHz      |  |

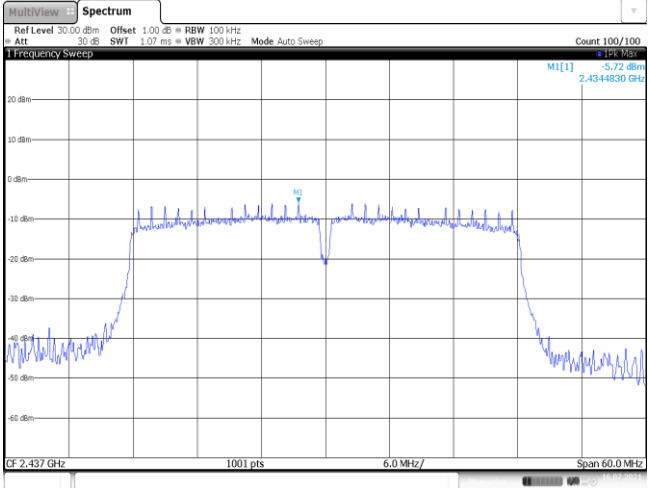
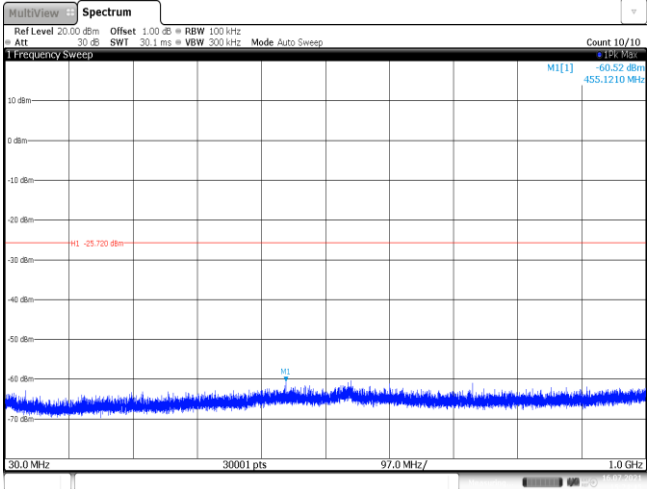
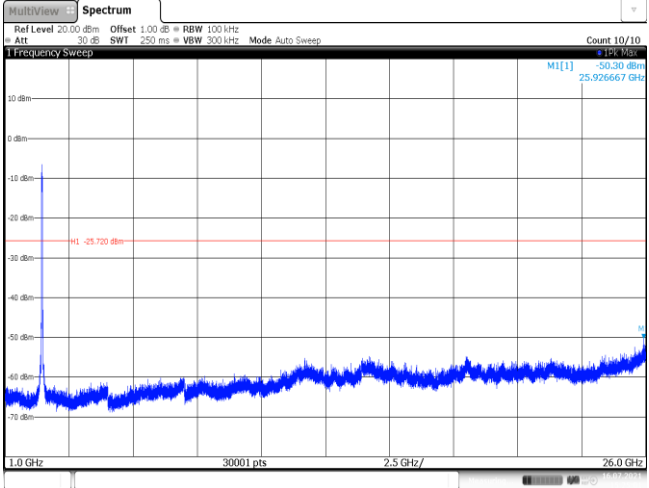
|                                 |                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CH11<br/>Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30.0 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>MI[1] -1.59 dBm<br/>2.467410 GHz<br/>CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date:16 JUL 2021 14:52:55</p> |
| <p>CH11<br/>30MHz~1000MHz</p>   |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30.0 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>MI[1] -60.35 dBm<br/>549.3690 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date:16 JUL 2021 14:53:11</p>         |
| <p>CH11<br/>1GHz~26GHz</p>      |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30.0 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>MI[1] -50.26 dBm<br/>25.986667 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date:16 JUL 2021 14:53:28</p>         |

| Test Item:              | SE | Type:                                                                                                                                                                                                                                                                                                                             | 802.11n(HT20) |
|-------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| CH01<br>Reference level |    |  <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] -1.98 dBm<br/>2.4107410 GHz<br/>2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date:16-Jul-2021 15:12:22</p> |               |
| CH01<br>30MHz~1000MHz   |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -60.07 dBm<br/>459.6450 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date:16-Jul-2021 15:12:29</p>       |               |
| CH01<br>1GHz~26GHz      |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -52.79 dBm<br/>25.995333 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date:16-Jul-2021 15:12:45</p>       |               |

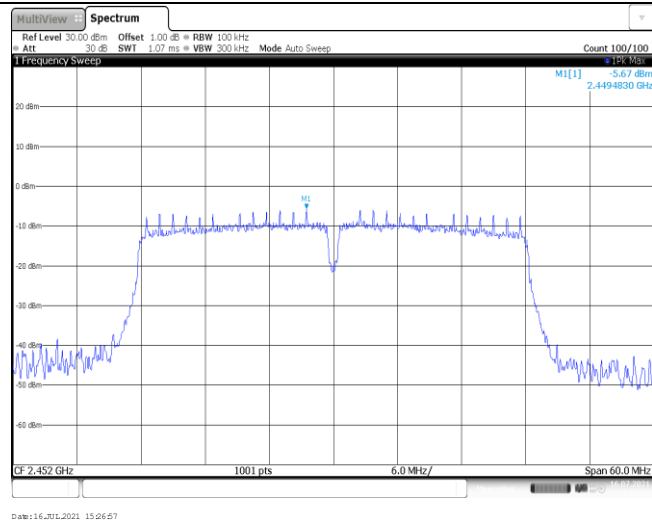
|                                 |                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CH06<br/>Reference level</p> |  <p>The spectrum plot shows a frequency sweep from 2.437 GHz to 2.437410 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The plot shows a signal level around -10 dBm. The x-axis is labeled with 1001 pts and 3.0 MHz. The span is 30.0 MHz. The date is 16 JUL 2021 15:05:44.</p> |
| <p>CH06<br/>30MHz~1000MHz</p>   |  <p>The spectrum plot shows a frequency sweep from 30.0 MHz to 1000 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a signal level around -60.47 dBm. The x-axis is labeled with 30001 pts and 97.0 MHz. The span is 1.0 GHz. The date is 16 JUL 2021 15:06:00.</p> |
| <p>CH06<br/>1GHz~26GHz</p>      |  <p>The spectrum plot shows a frequency sweep from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a signal level around -52.54 dBm. The x-axis is labeled with 30001 pts and 2.5 GHz. The span is 26.0 GHz. The date is 16 JUL 2021 15:06:06.</p> |

|                                 |                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CH11<br/>Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30.0 dB SW 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>MI[1] -1.34 dBm<br/>2.462590 GHz<br/>CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date:16_JUL_2021 15:14:21</p> |
| <p>CH11<br/>30MHz~1000MHz</p>   |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30.0 dB SW 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>MI[1] -60.92 dBm<br/>543.4850 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date:16_JUL_2021 15:14:08</p>         |
| <p>CH11<br/>1GHz~26GHz</p>      |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30.0 dB SW 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>MI[1] -52.83 dBm<br/>25.969167 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date:16_JUL_2021 15:14:54</p>         |

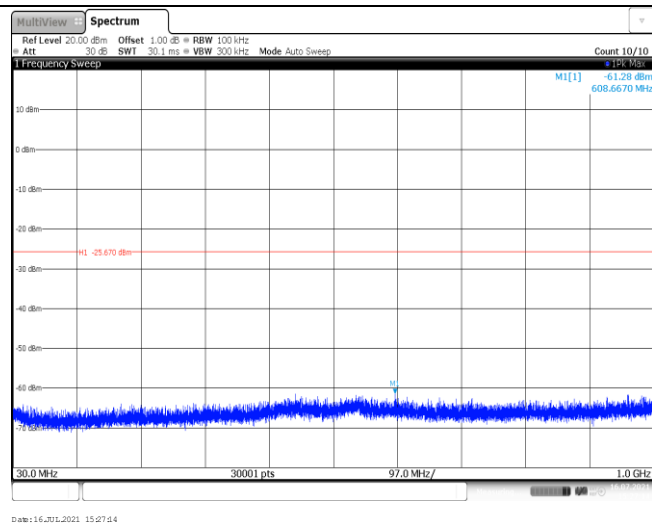
| Test Item:              | SE | Type:                                                                                                                                                                                                                                                                                                                                                           | 802.11n(HT40) |
|-------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| CH03<br>Reference level |    |  <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.07 ms VSW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] 2.45194830 GHz -6.23 dBm<br/>2.4194830 GHz<br/>2.478 GHz<br/>2.422 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz<br/>Date: 16-Jul-2021 15:20:37</p> |               |
| CH03<br>30MHz~1000MHz   |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 30.1 ms VSW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] 543.5170 MHz -60.17 dBm<br/>543.5170 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 16-Jul-2021 15:20:53</p>                       |               |
| CH03<br>1GHz~26GHz      |    |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 250 ms VSW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] 1.776533 GHz -44.53 dBm<br/>1.776533 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 16-Jul-2021 15:21:09</p>                        |               |

|                                 |                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CH06<br/>Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Count 100/100<br/>Att 30.0 dB SWF 1.07 ms VSW 300 kHz Mode Auto Sweep<br/>Frequency Sweep<br/>M1 -5.72 dBm<br/>2.434830 GHz<br/>CF 2.437 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz<br/>Date: 16 JUL 2021 15:24:28</p> |
| <p>CH06<br/>30MHz~1000MHz</p>   |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Count 10/10<br/>Att 30.0 dB SWF 30.1 ms VSW 300 kHz Mode Auto Sweep<br/>Frequency Sweep<br/>M1 -60.52 dBm<br/>455.1210 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 16 JUL 2021 15:24:44</p>         |
| <p>CH06<br/>1GHz~26GHz</p>      |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Count 10/10<br/>Att 30.0 dB SWF 250 ms VSW 300 kHz Mode Auto Sweep<br/>Frequency Sweep<br/>M1 -50.30 dBm<br/>25.926667 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 16 JUL 2021 15:25:01</p>         |

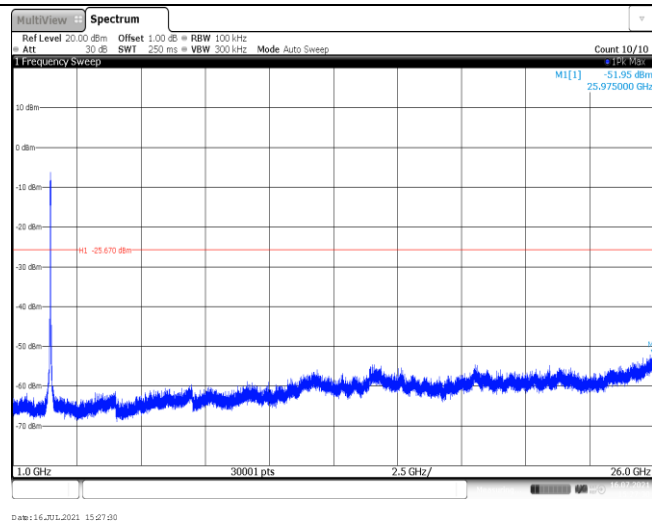
CH09  
Reference level



CH09  
30MHz~1000MHz



CH09  
1GHz~26GHz



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