

Measurement Results

1-8392/19-03-11_log1_conducted.pdf

[Test logging](#)

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Document authorized:

Marco Bertolino
Lab Manager
Radio Communications & EMC

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IUT Summary

| IUT DEFINITION & Common settings | |
|--|---------------------------------|
| Manufacturer | Sennheiser |
| Type | EW-D EM |
| Serial No. Setup No. | 1130000132 - |
| SW Version HW Version | Test software - |
| Comment 1 2 | |
| Tlow Tmid Thigh [°C] | - 24 - |
| Vlow Vmid Vhigh [V] @Imax [A] | - 115 V AC / 12 V DC - @ 1A |
| Auto Control enabled Power Supply Climatic Box | No No |
| Antenna Gain [dBi] | 0 |
| Additional Path Loss [dB] | 0.6 |

| IUT Common Settings BT Low Energy | |
|--|---|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 2 |
| 1 Mbps supported | True TXpayload 255 RXpayload 255 |
| 2 Mbps supported | False TXpayload 255 RXpayload 255 |
| Longrange S8 supported | False TXpayload 255 RXpayload 255 |
| Longrange S2 supported | False TXpayload 255 RXpayload 255 |
| Signaling Settings | None HCI 1 2400 None S1 None On |
| Signaling RF Settings | RF1com 0 0 On |
| User Interaction | No |
| Switch Matrix & Pathcompensation enabled | Yes |

1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:14:15 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

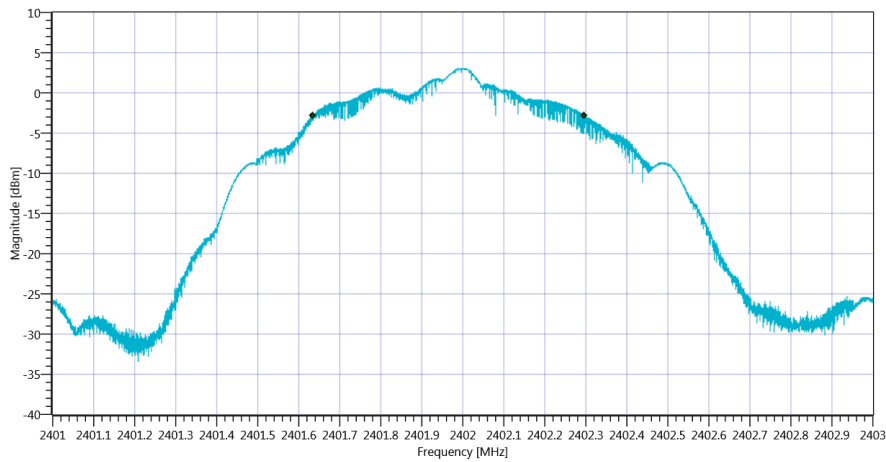
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.08 10.41 15 |
| Start [MHz] Stop [MHz] | 2401.000 2403.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 661 | kHz | INFO |

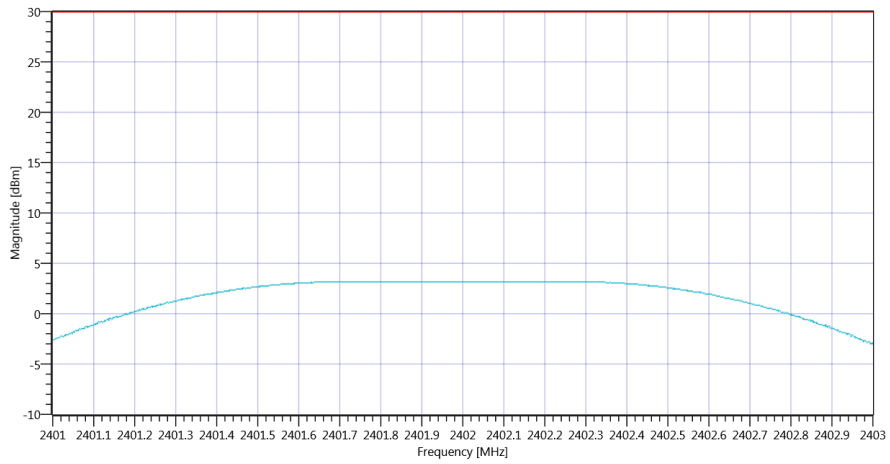


READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.08 10.41 20 |
| Start [MHz] Stop [MHz] | 2401.000 2403.000 |
| RBW [MHz] VBW [MHz] | 1.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 3.2 | dBm | PASS |
| Peak Power | --- | 1000 | 2.089296 | mW | PASS |
| Frequency at Peak | --- | --- | 2402.25 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps_21042020_101458.png

TEST FINISHED

General Verdict

21.04.2020 10:14:58 / RT: 43 s

PASS

2. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:26:47 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW \geq DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

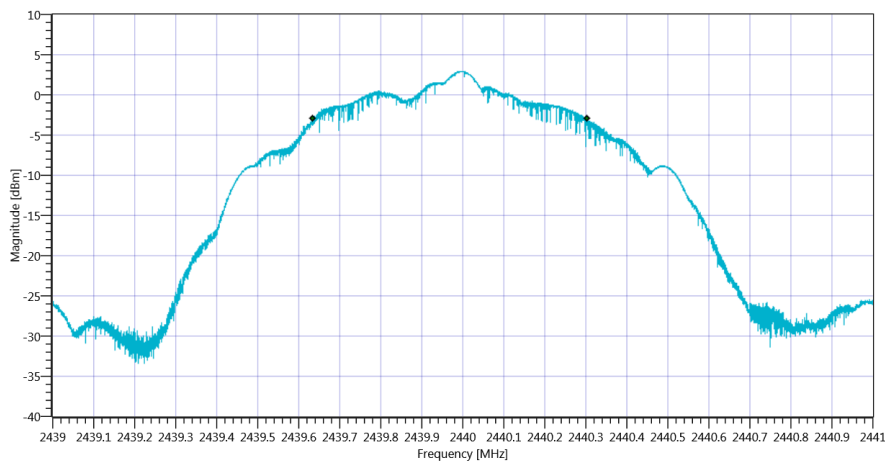
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.94 10.5 15 |
| Start [MHz] Stop [MHz] | 2439.000 2441.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 667 | kHz | INFO |

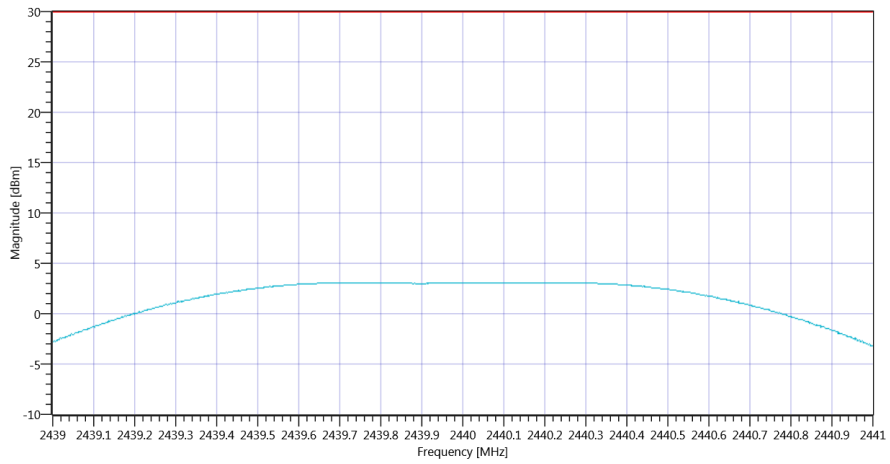


READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.94 10.5 20 |
| Start [MHz] Stop [MHz] | 2439.000 2441.000 |
| RBW [MHz] VBW [MHz] | 1.000000 5.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 3.07 | dBm | PASS |
| Peak Power | --- | 1000 | 2.027683 | mW | PASS |
| Frequency at Peak | --- | --- | 2439.968 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps_21042020_102730.png

TEST FINISHED

General Verdict

21.04.2020 10:27:31 / RT: 43 s

PASS

3. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:39:11 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

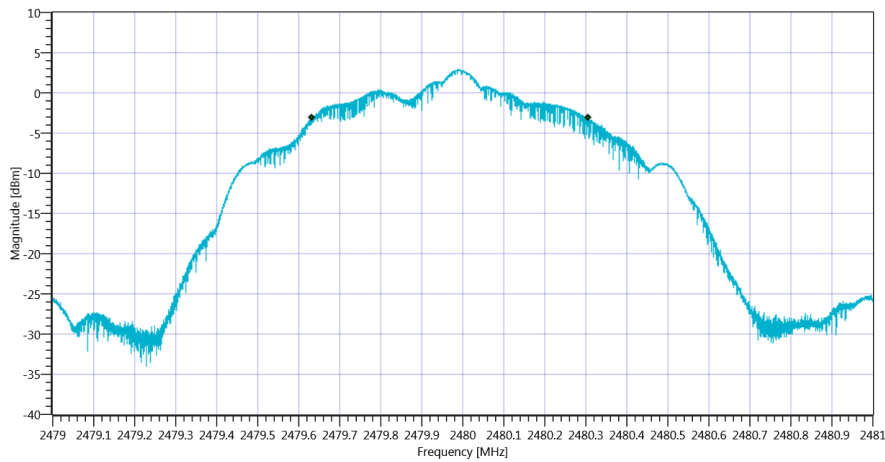
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.78 10.55 15 |
| Start [MHz] Stop [MHz] | 2479.000 2481.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 672 | kHz | INFO |

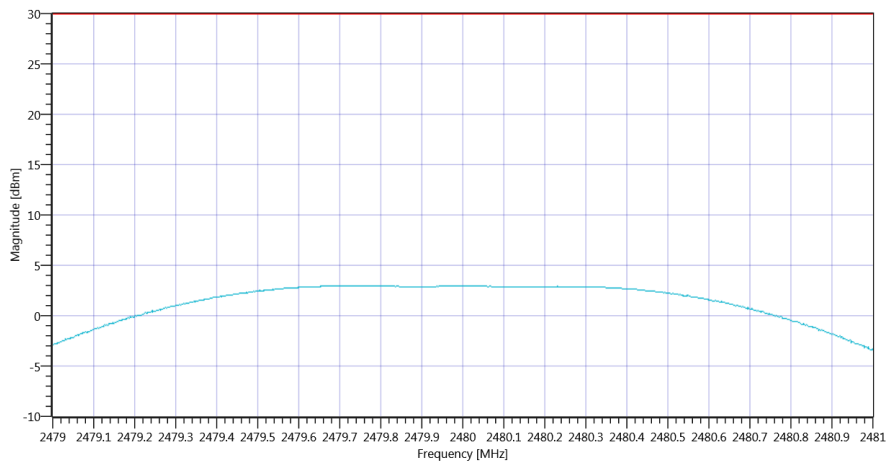


READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.78 10.55 20 |
| Start [MHz] Stop [MHz] | 2479.000 2481.000 |
| RBW [MHz] VBW [MHz] | 1.000000 5.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 2.95 | dBm | PASS |
| Peak Power | --- | 1000 | 1.972423 | mW | PASS |
| Frequency at Peak | --- | --- | 2479.73 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps_21042020_103954.png

TEST FINISHED

General Verdict

21.04.2020 10:39:54 / RT: 43 s

PASS

4. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:43:46 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

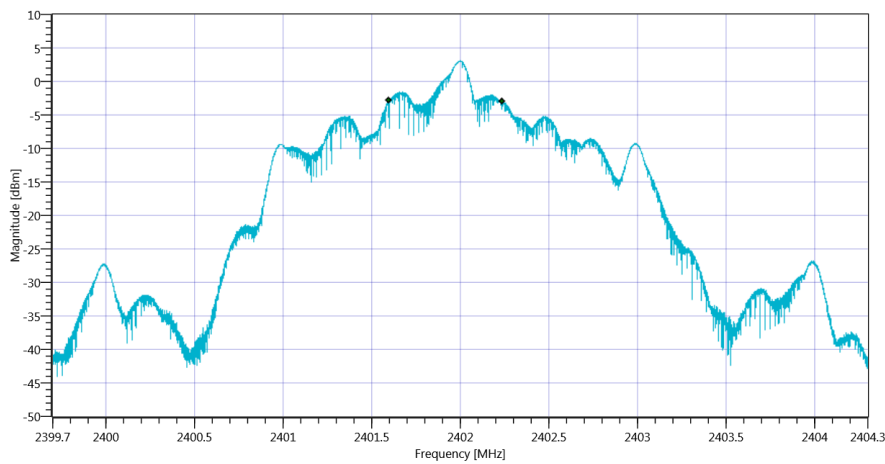
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.96 10.41 15 |
| Start [MHz] Stop [MHz] | 2399.700 2404.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 639 | kHz | INFO |



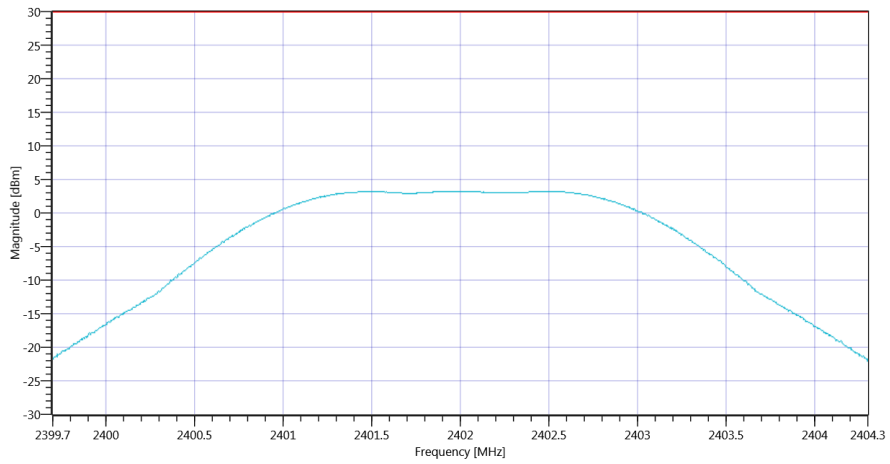
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps DTS BW_21042020_094412.png

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.96 10.41 20 |
| Start [MHz] Stop [MHz] | 2399.700 2404.300 |
| RBW [MHz] VBW [MHz] | 1.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 3.19 | dBm | PASS |
| Peak Power | --- | 1000 | 2.084491 | mW | PASS |
| Frequency at Peak | --- | --- | 2402.492 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps_21042020_094428.png

TEST FINISHED

General Verdict

21.04.2020 09:44:29 / RT: 42 s

PASS

5. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:54:28 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW \geq DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

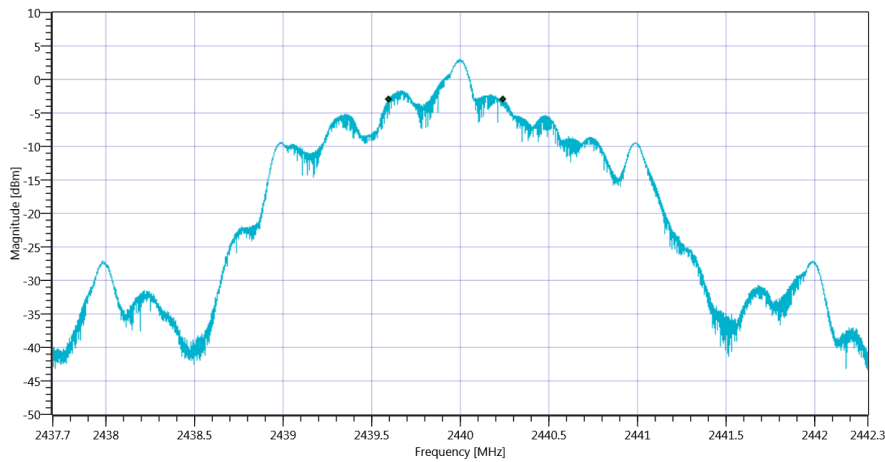
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.78 10.5 15 |
| Start [MHz] Stop [MHz] | 2437.700 2442.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 644 | kHz | INFO |

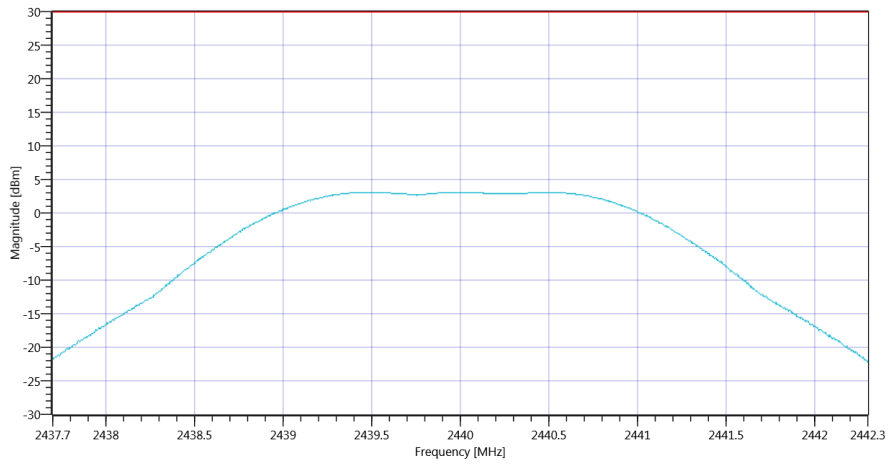


READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.78 10.5 20 |
| Start [MHz] Stop [MHz] | 2437.700 2442.300 |
| RBW [MHz] VBW [MHz] | 1.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 3.07 | dBm | PASS |
| Peak Power | --- | 1000 | 2.027683 | mW | PASS |
| Frequency at Peak | --- | --- | 2439.485 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps_21042020_095511.png

TEST FINISHED

General Verdict

21.04.2020 09:55:11 / RT: 43 s

PASS

6. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:04:21 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth |
| Class / TC Version | TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Maximum Peak Output Power Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

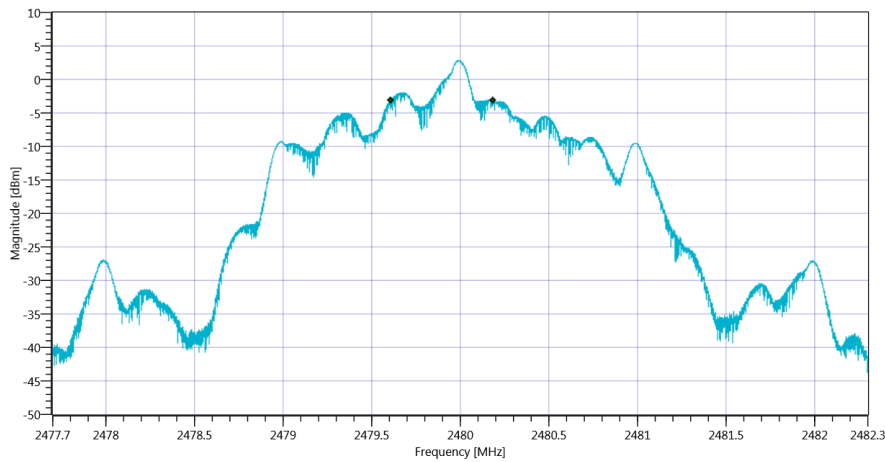
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.66 10.55 15 |
| Start [MHz] Stop [MHz] | 2477.700 2482.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

DTS Bandwidth

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | --- | --- | 577 | kHz | INFO |

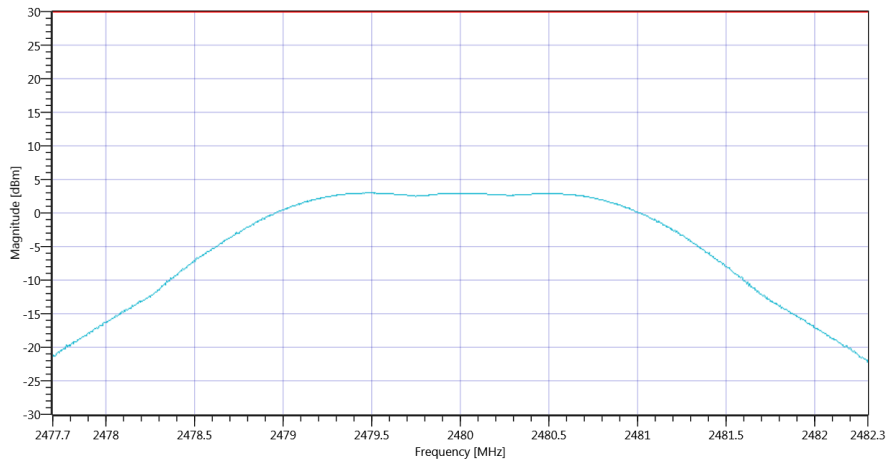


READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.66 10.55 20 |
| Start [MHz] Stop [MHz] | 2477.700 2482.300 |
| RBW [MHz] VBW [MHz] | 1.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | 30.00 | 2.96 | dBm | PASS |
| Peak Power | --- | 1000 | 1.97697 | mW | PASS |
| Frequency at Peak | --- | --- | 2479.499 | MHz | INFO |



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 2 Msps_21042020_100503.png

TEST FINISHED

General Verdict

21.04.2020 10:05:04 / RT: 43 s

PASS

7. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:15:02 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

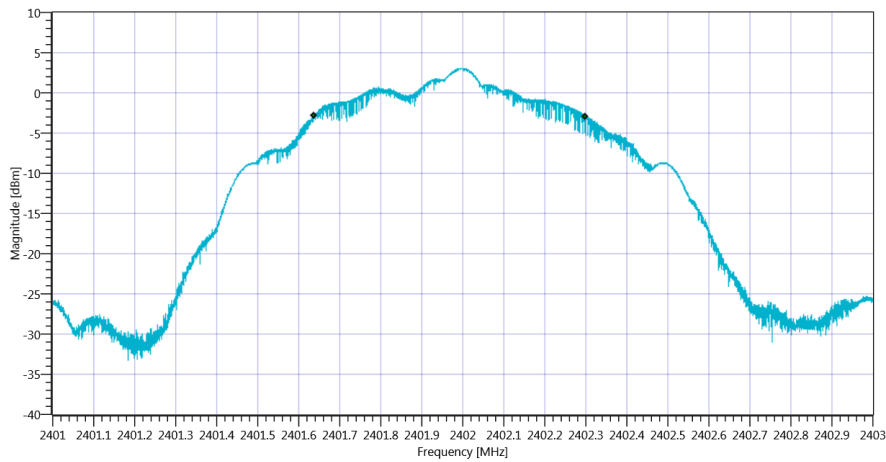
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.05 10.41 15 |
| Start [MHz] Stop [MHz] | 2401.000 2403.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | --- | 663 | kHz | PASS |



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps_21042020_101529.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:15:30 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

8. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:27:35 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

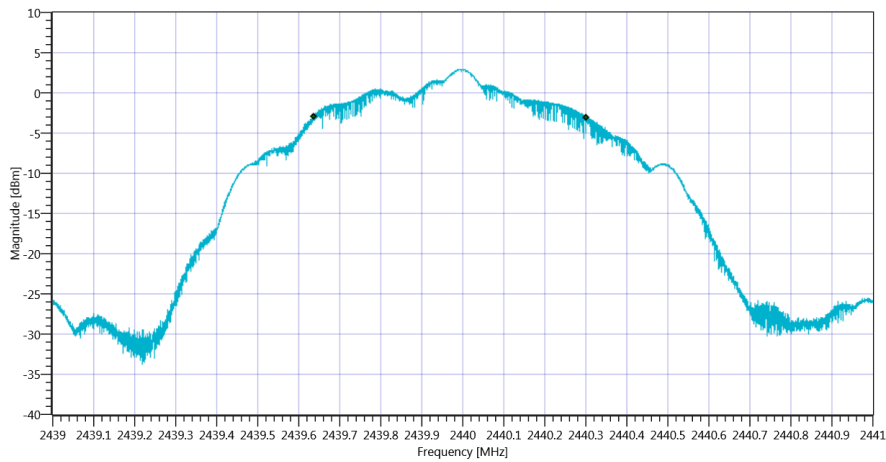
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.99 10.5 15 |
| Start [MHz] Stop [MHz] | 2439.000 2441.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | --- | 666 | kHz | PASS |



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps_21042020_102802.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:28:03 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

9. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:39:59 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

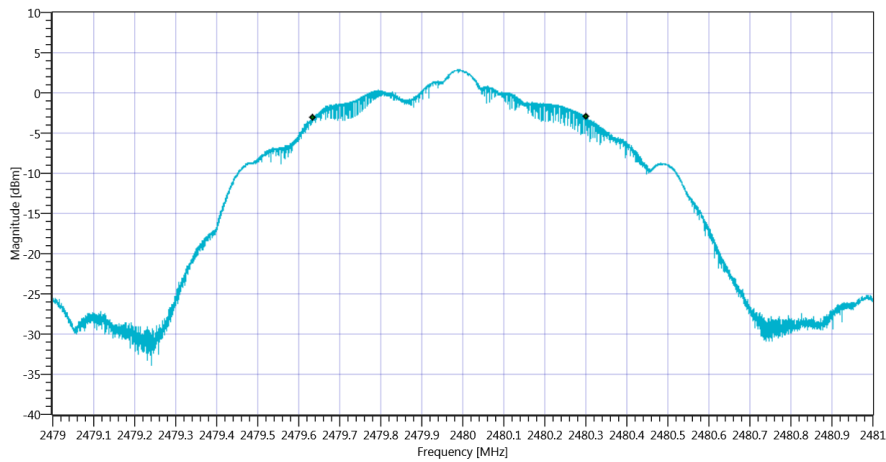
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.81 10.55 15 |
| Start [MHz] Stop [MHz] | 2479.000 2481.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | --- | 667 | kHz | PASS |



TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:40:26 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

10. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:44:33 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

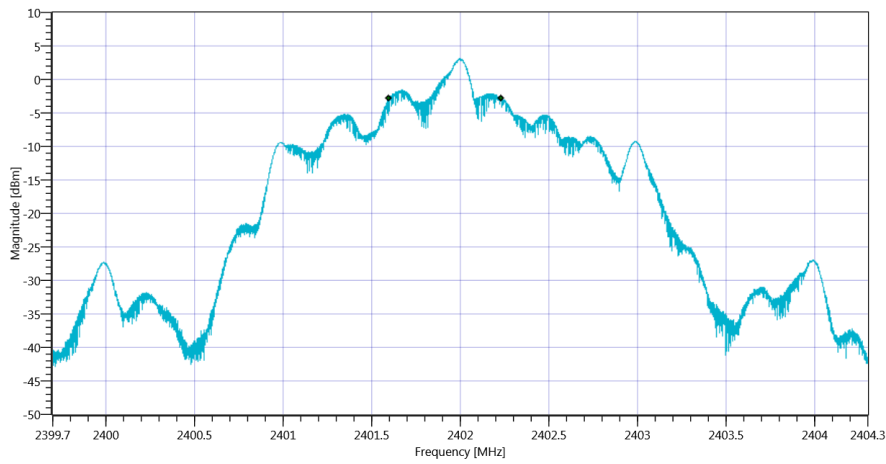
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.91 10.41 15 |
| Start [MHz] Stop [MHz] | 2399.700 2404.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | -- | 635 | kHz | PASS |



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps_21042020_094500.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 09:45:00 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

11. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:55:16 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

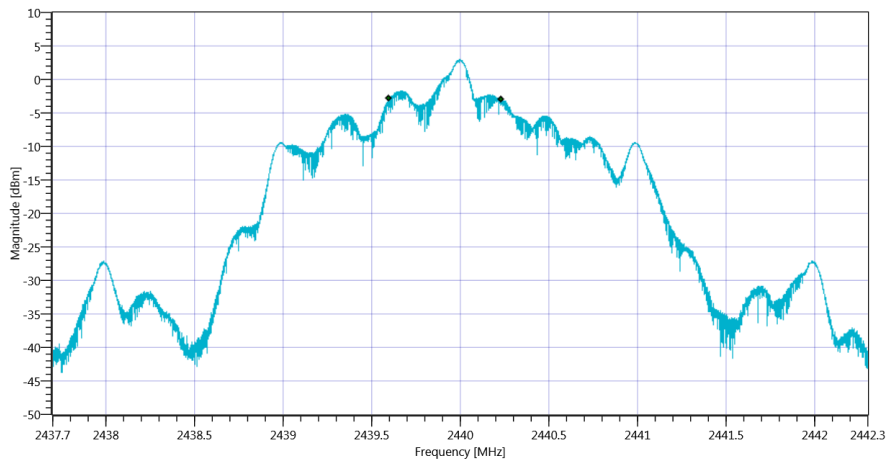
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.85 10.5 15 |
| Start [MHz] Stop [MHz] | 2437.700 2442.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | -- | 635 | kHz | PASS |



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps_21042020_095542.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 09:55:43 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

12. FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:05:08 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | 99 |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Bandwidth 6dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

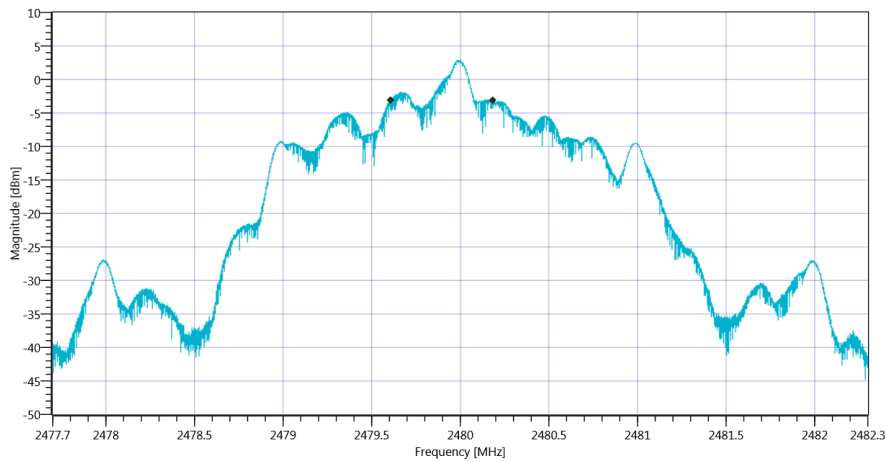
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.66 10.55 15 |
| Start [MHz] Stop [MHz] | 2477.700 2482.300 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------|-------------|-------------|----------|------|---------|
| DTS Bandwidth (6dB) | 500 | -- | 577 | kHz | PASS |



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 2 Msps_21042020_100534.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:05:35 / RT: 27 s | PASS |
|-----------------|--------------------------------|------|

13. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:15:34 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

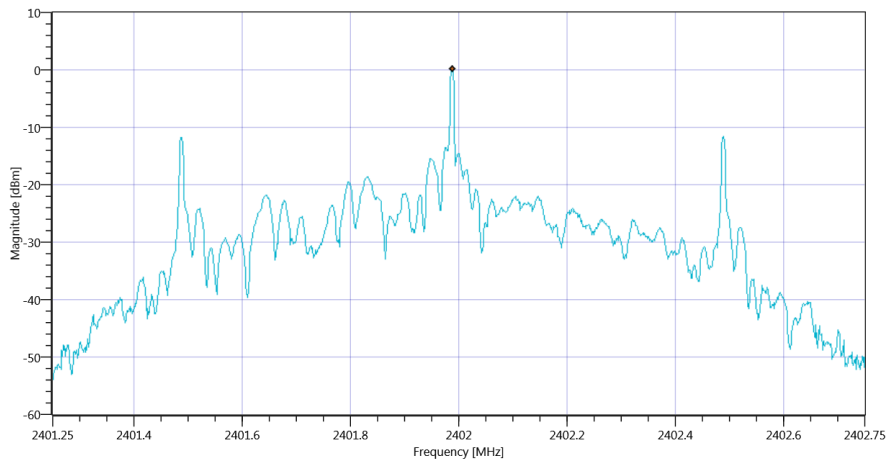
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.12 10.41 15 |
| Start [MHz] Stop [MHz] | 2401.250 2402.750 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | 0.18 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps_21042020_101610.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:16:11 / RT: 36 s | PASS |
|-----------------|--------------------------------|------|

14. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:28:07 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

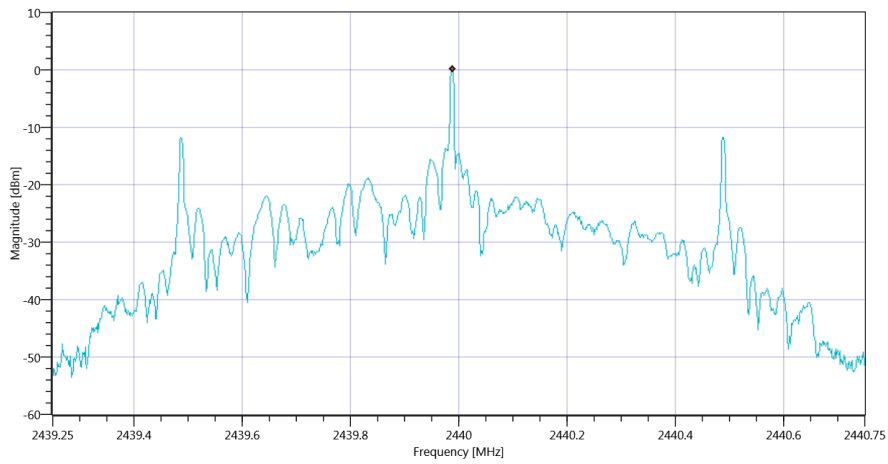
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.92 10.5 15 |
| Start [MHz] Stop [MHz] | 2439.250 2440.750 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | 0.06 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps_21042020_102843.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:28:44 / RT: 37 s | PASS |
|-----------------|--------------------------------|------|

15. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:40:30 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

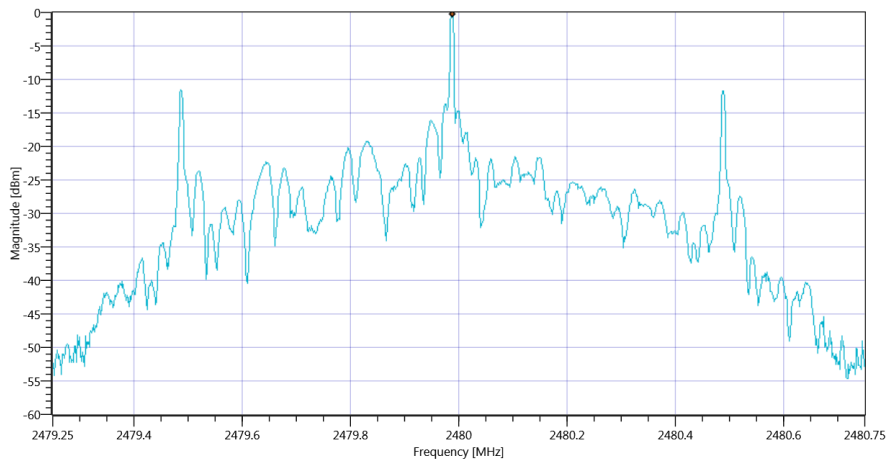
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.81 10.55 15 |
| Start [MHz] Stop [MHz] | 2479.250 2480.750 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | -0.08 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps_21042020_104106.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:41:07 / RT: 36 s | PASS |
|-----------------|--------------------------------|------|

16. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 09:45:04 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

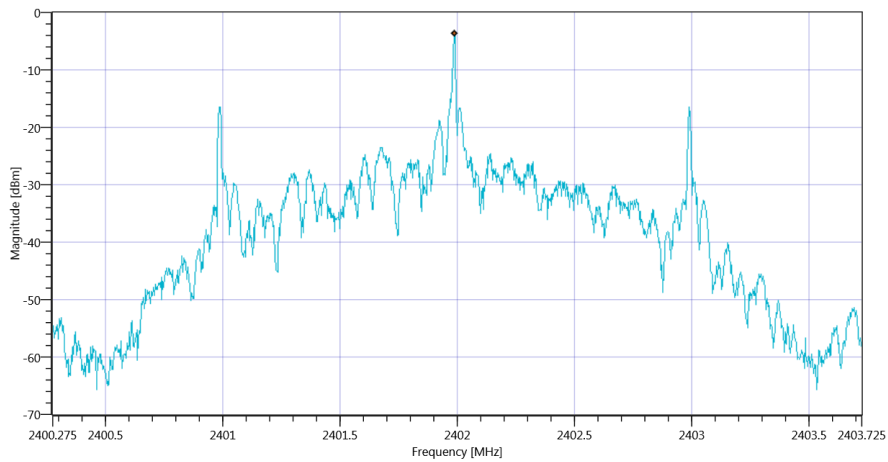
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.90 10.41 15 |
| Start [MHz] Stop [MHz] | 2400.275 2403.725 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | -3.78 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps_21042020_094541.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 09:45:41 / RT: 36 s | PASS |
|-----------------|--------------------------------|------|

17. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 09:55:47 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

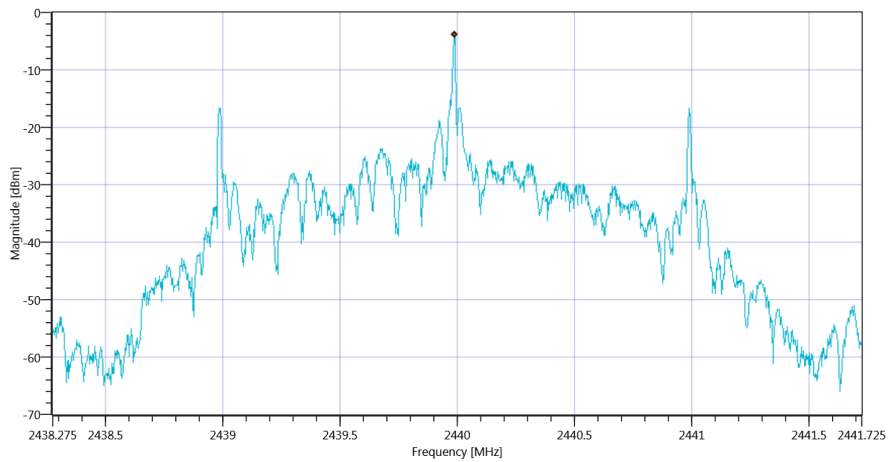
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.74 10.5 15 |
| Start [MHz] Stop [MHz] | 2438.275 2441.725 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | -3.92 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps_21042020_095623.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 09:56:23 / RT: 36 s | PASS |
|-----------------|--------------------------------|------|

18. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:05:39 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Class / TC Version | TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Peak Power Spectral Density DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

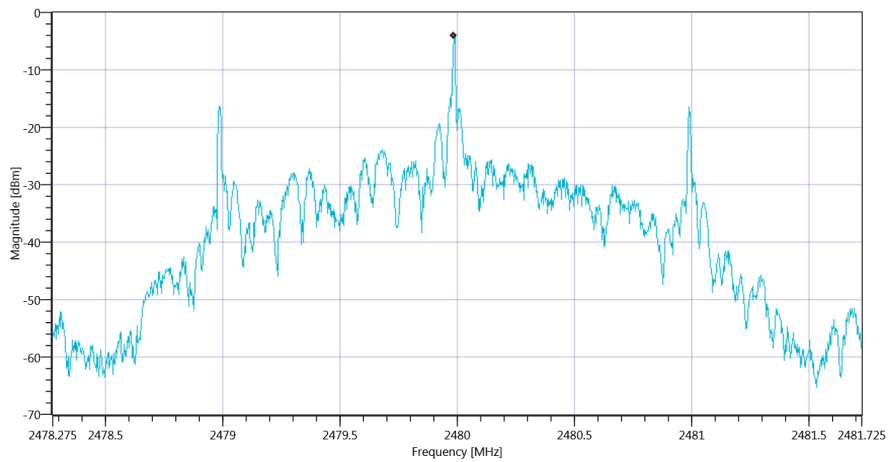
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.56 10.55 15 |
| Start [MHz] Stop [MHz] | 2478.275 2481.725 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 20 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|----------|---------|
| Max Peak power Density | --- | 8 | -4.01 | dBm/3KHz | PASS |



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 2 Msps_21042020_100615.png

TEST FINISHED

| | | |
|-----------------|--------------------------------|------|
| General Verdict | 21.04.2020 10:06:16 / RT: 36 s | PASS |
|-----------------|--------------------------------|------|

19. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:16:15 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

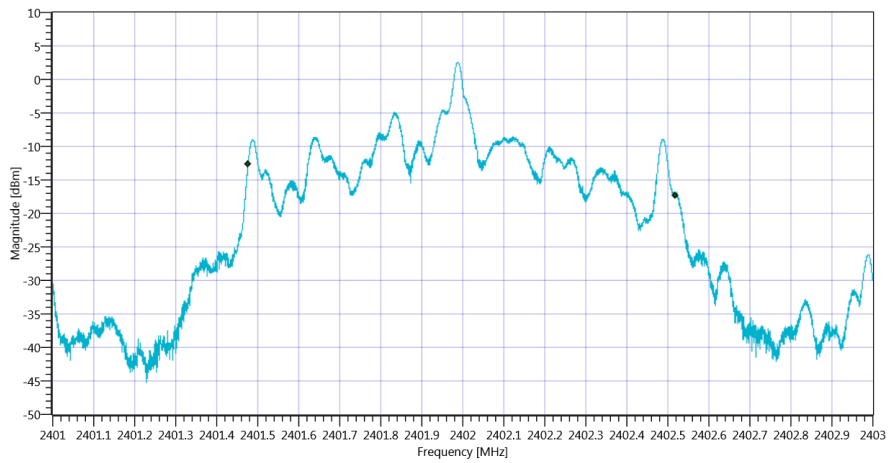
Test at TX 2402 MHz

READ SA SETTINGS:

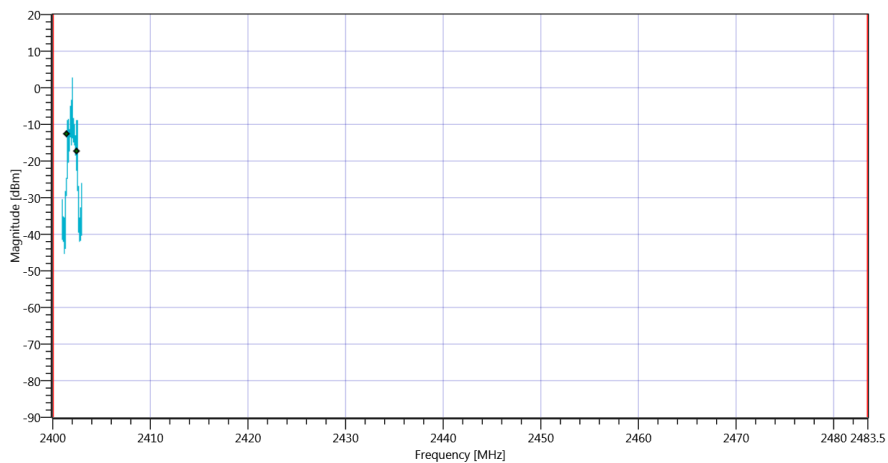
| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.11 10.41 15 |
| Start [MHz] Stop [MHz] | 2401.000 2403.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.050000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 1042 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2401.4765 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2402.5187 | MHz | PASS |



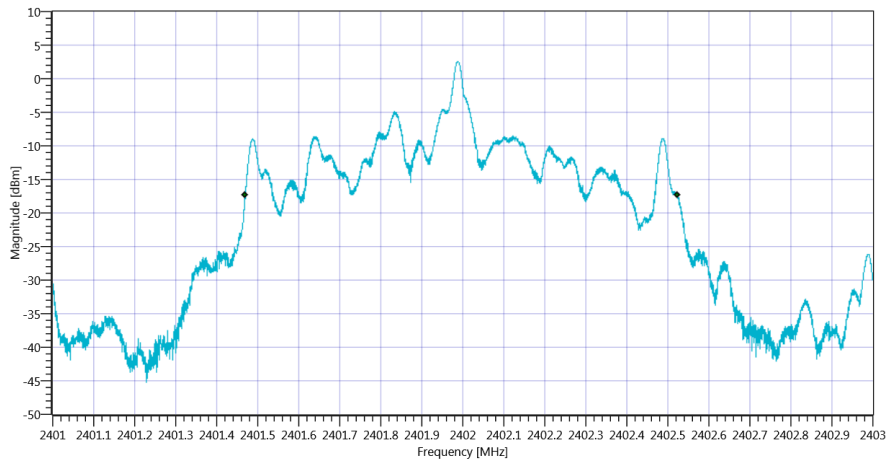
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps 99PCT_21042020_101642.png



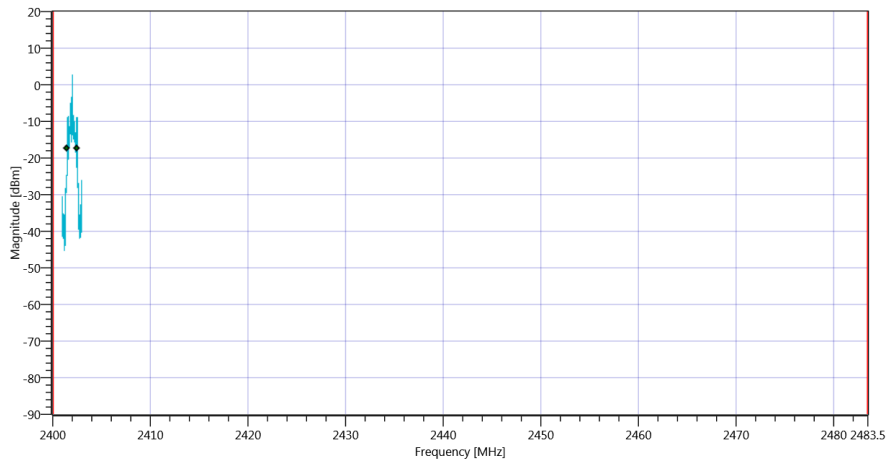
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps_21042020_101646.png

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 1054 | kHz | INFO |
| T1 20DB | 2400.000000 | --- | 2401.4700 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2402.5242 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 MspS 20dB_21042020_101651.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 MspS_21042020_101655.png

TEST FINISHED

General Verdict

21.04.2020 10:16:56 / RT: 40 s

PASS

20. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:28:48 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

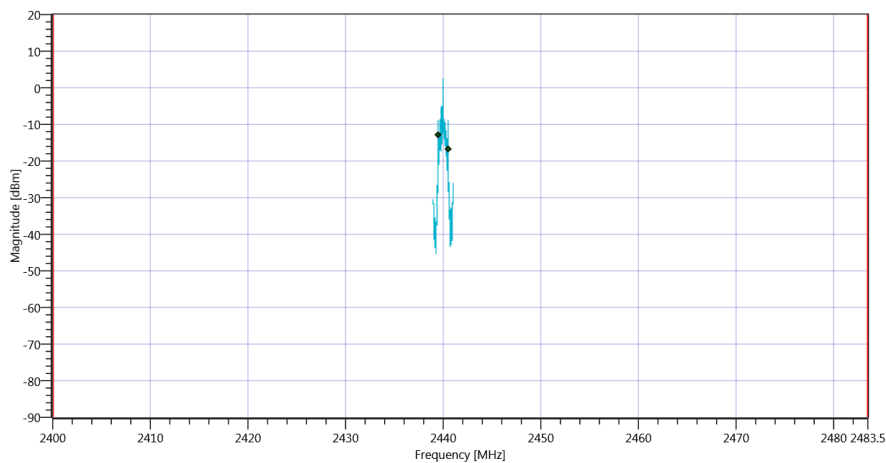
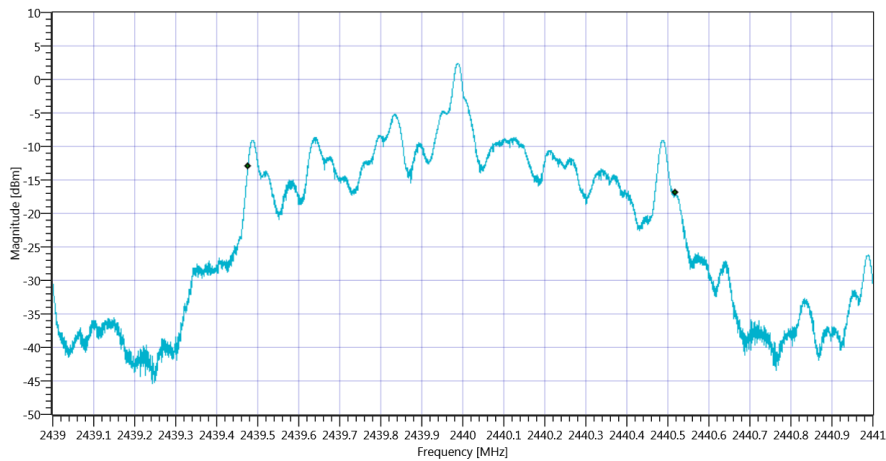
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.95 10.5 15 |
| Start [MHz] Stop [MHz] | 2439.000 2441.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.050000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

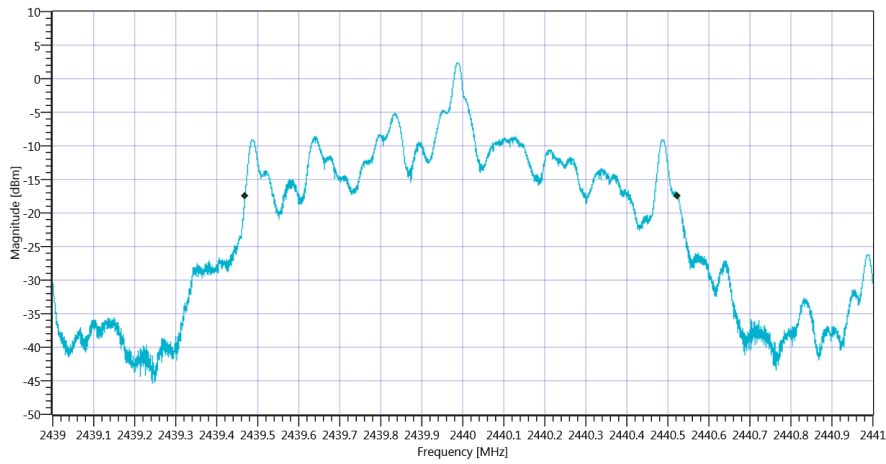
RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 1043 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2439.4763 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2440.5191 | MHz | PASS |

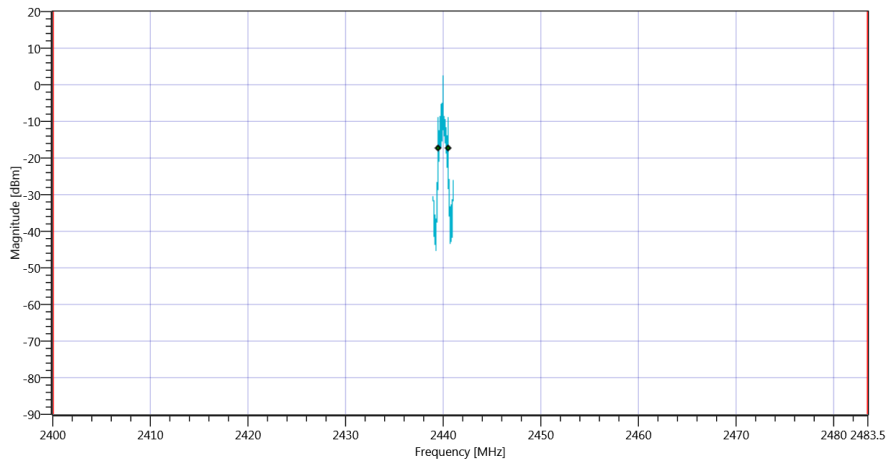


RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 1055 | kHz | INFO |
| T1 20dB | 2400.000000 | --- | 2439.4692 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2440.5244 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 MspS 20dB_21042020_102925.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 MspS_21042020_102929.png

TEST FINISHED

General Verdict

21.04.2020 10:29:29 / RT: 41 s

PASS

21. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:41:11 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

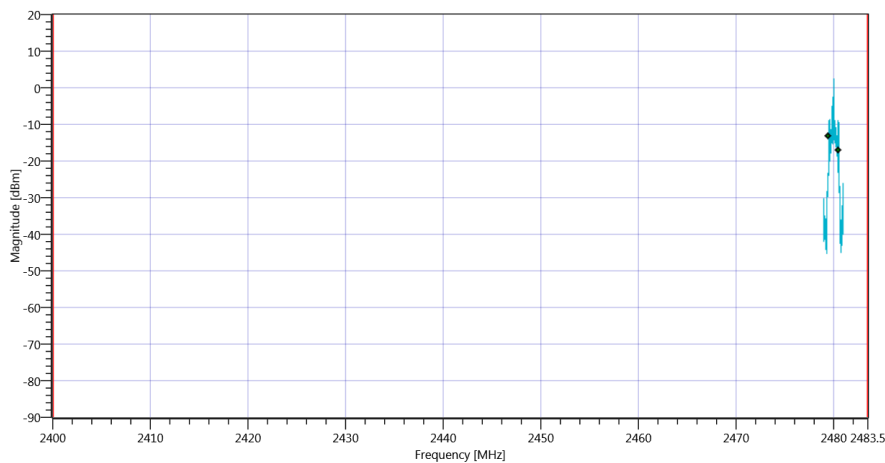
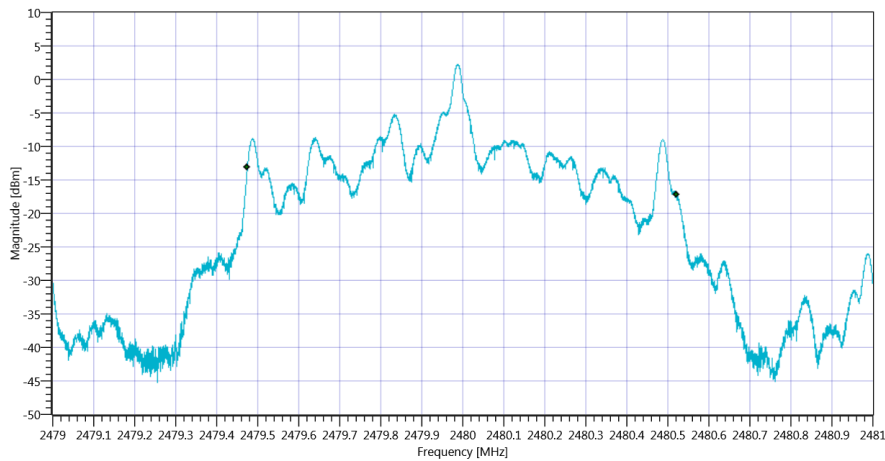
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.81 10.55 15 |
| Start [MHz] Stop [MHz] | 2479.000 2481.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.050000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

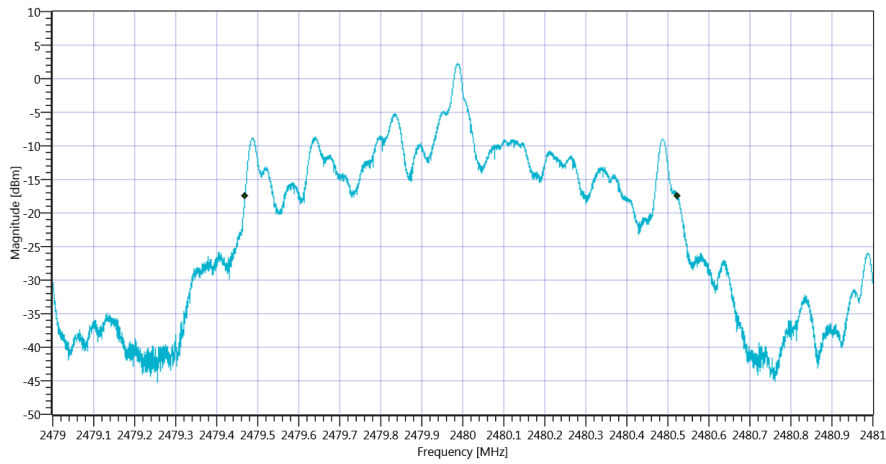
RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 1045 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2479.4751 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2480.5199 | MHz | PASS |

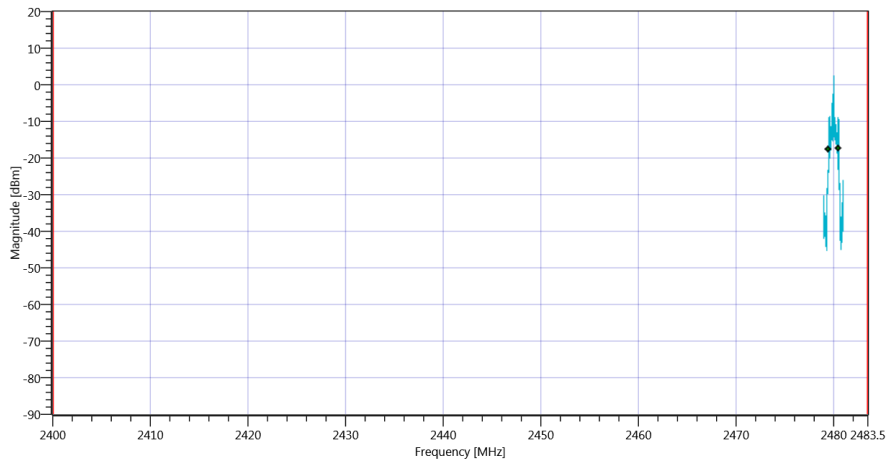


RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 1056 | kHz | INFO |
| T1 20DB | 2400.000000 | --- | 2479.4688 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2480.5244 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps 20dB_21042020_104148.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps_21042020_104151.png

TEST FINISHED

General Verdict

21.04.2020 10:41:52 / RT: 41 s

PASS

22. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:45:45 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

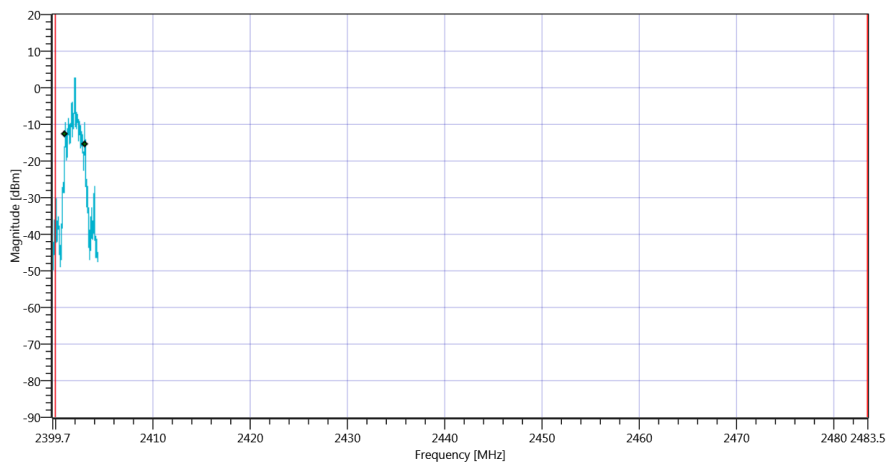
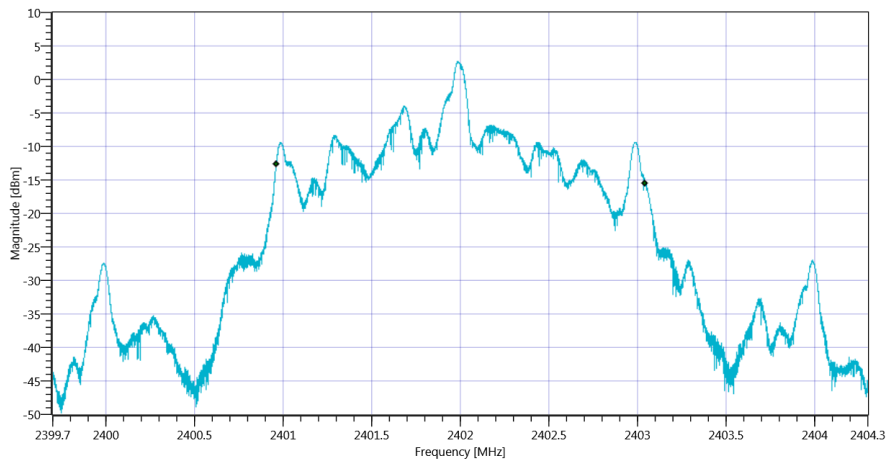
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.95 10.41 15 |
| Start [MHz] Stop [MHz] | 2399.700 2404.300 |
| RBW [MHz] VBW [MHz] | 0.050000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

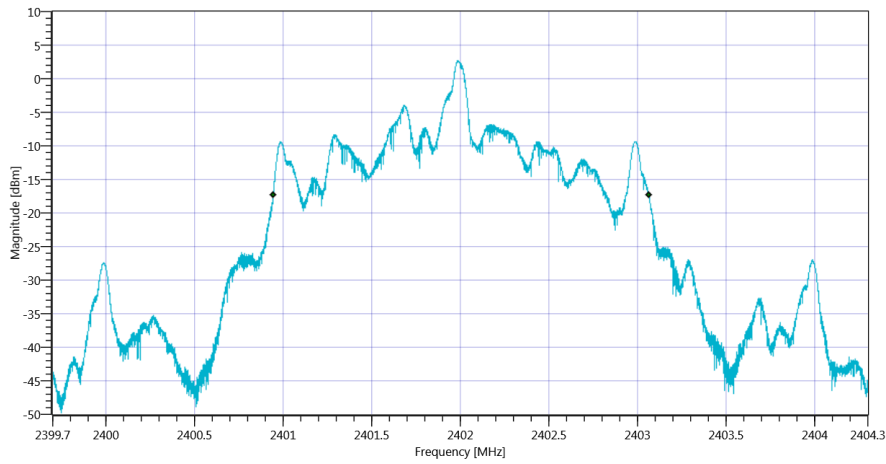
RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 2080 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2400.9619 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2403.0418 | MHz | PASS |

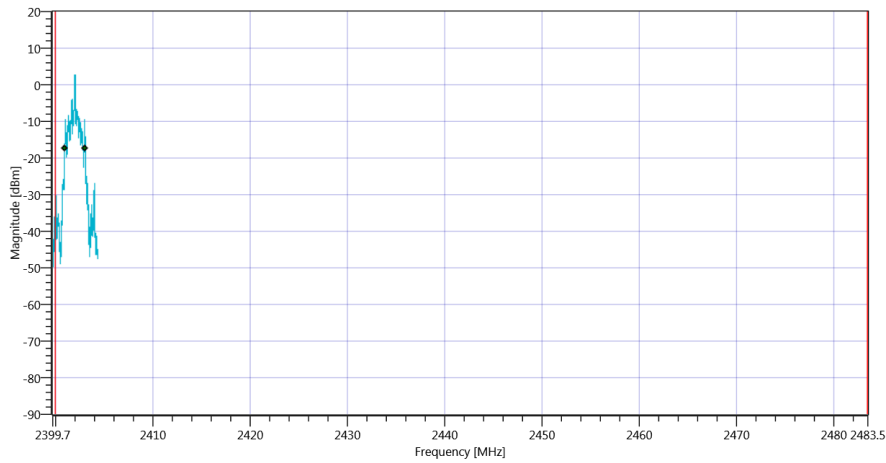


RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 2119 | kHz | INFO |
| T1 20DB | 2400.000000 | --- | 2400.9443 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2403.0635 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 MspS 20dB_21042020_094621.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 MspS 21042020_094625.png

TEST FINISHED

General Verdict

21.04.2020 09:46:26 / RT: 40 s

PASS

23. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:56:27 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

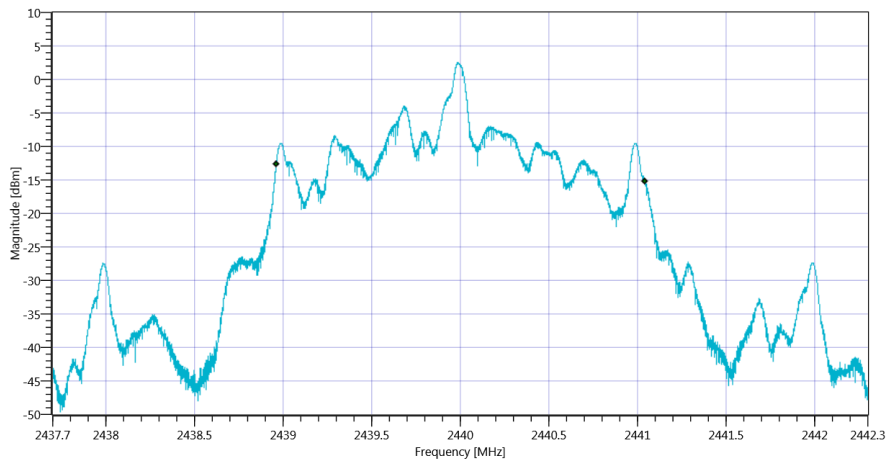
Test at TX 2440 MHz

READ SA SETTINGS:

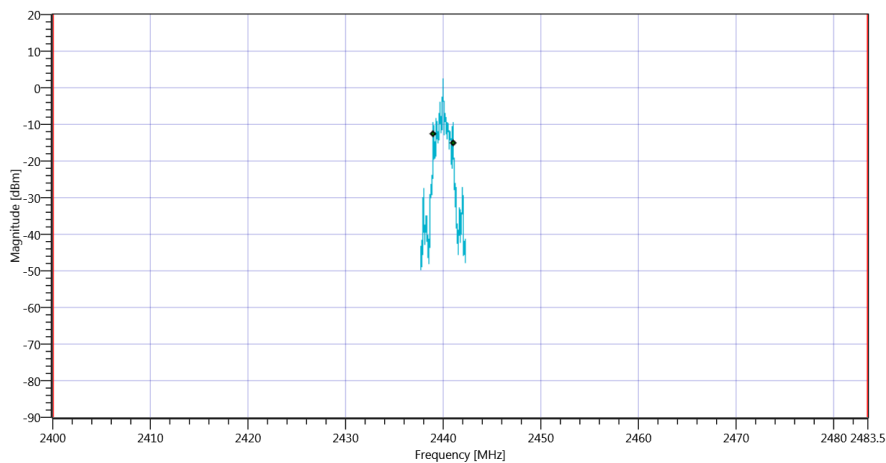
| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.84 10.5 15 |
| Start [MHz] Stop [MHz] | 2437.700 2442.300 |
| RBW [MHz] VBW [MHz] | 0.050000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 2080 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2438.9614 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2441.0418 | MHz | PASS |



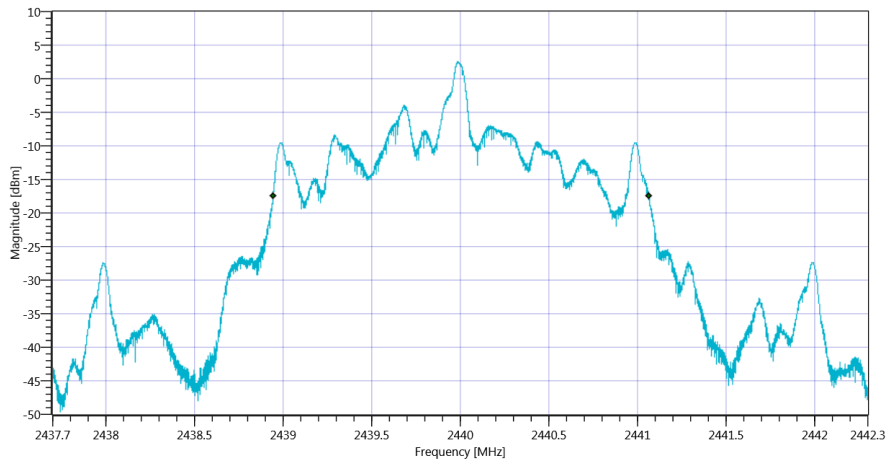
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps 99PCT_21042020_095655.png



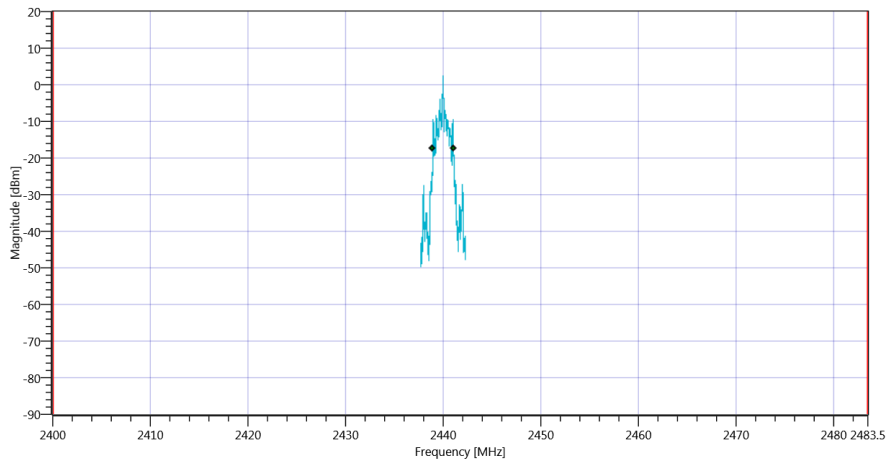
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps_21042020_095659.png

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 2120 | kHz | INFO |
| T1 20dB | 2400.000000 | --- | 2438.9438 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2441.0635 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps 20dB_21042020_095704.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps_21042020_095708.png

TEST FINISHED

General Verdict

21.04.2020 09:57:08 / RT: 40 s

PASS

24. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:06:20 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | |
| Class / TC Version | TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 |
| My Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

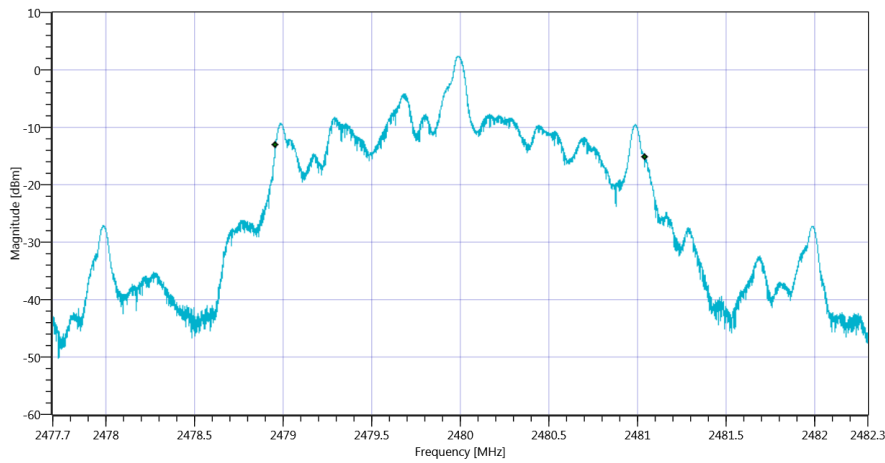
Test at TX 2480 MHz

READ SA SETTINGS:

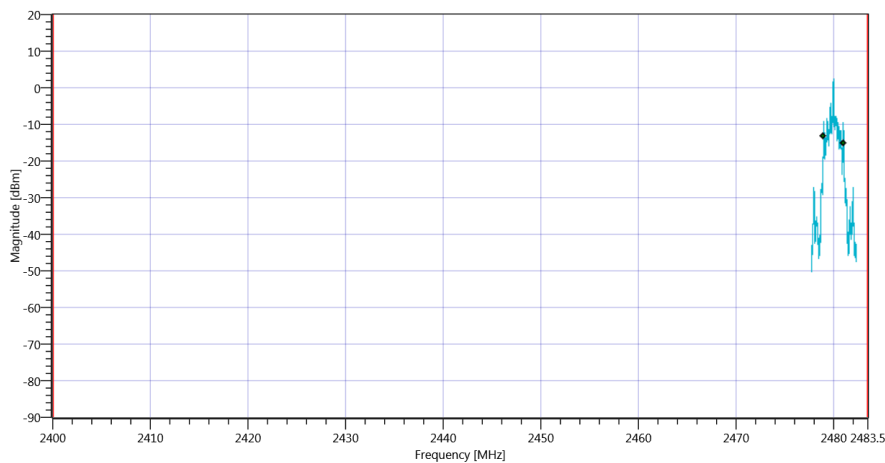
| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.63 10.55 15 |
| Start [MHz] Stop [MHz] | 2477.700 2482.300 |
| RBW [MHz] VBW [MHz] | 0.050000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 50 200 10001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | --- | --- | 2087 | kHz | INFO |
| T1 99% | 2400.000000 | --- | 2478.9587 | MHz | PASS |
| T2 99% | --- | 2483.500000 | 2481.0455 | MHz | PASS |



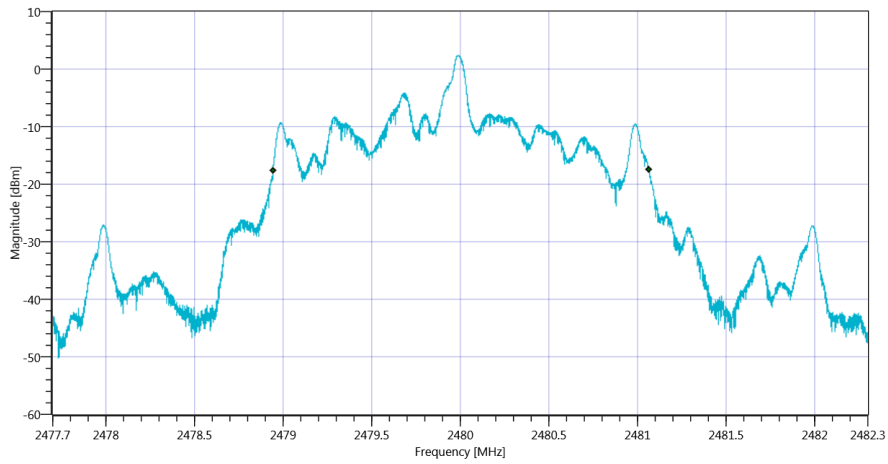
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps 99PCT_21042020_100647.png



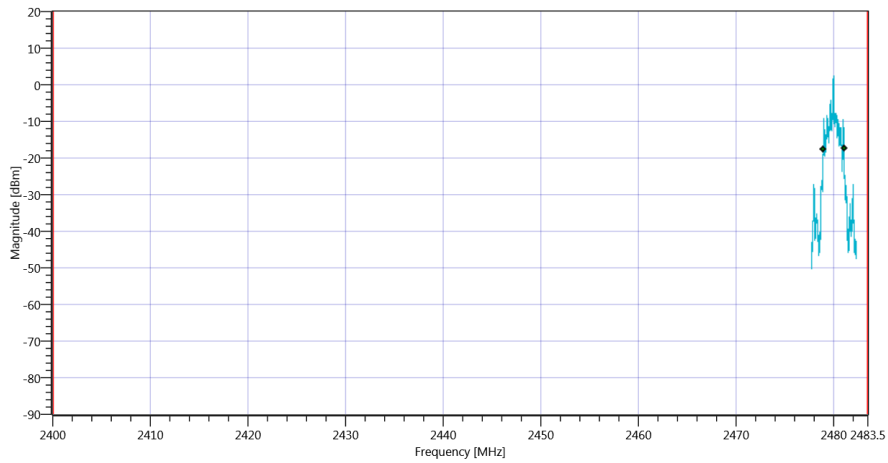
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps_21042020_100651.png

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | --- | --- | 2122 | kHz | INFO |
| T1 20DB | 2400.000000 | --- | 2478.9434 | MHz | PASS |
| T2 20dB | --- | 2483.500000 | 2481.0658 | MHz | PASS |



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps 20dB_21042020_100657.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 2 Msps_21042020_100701.png

TEST FINISHED

General Verdict

21.04.2020 10:07:01 / RT: 40 s

PASS

25. FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:17:00 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

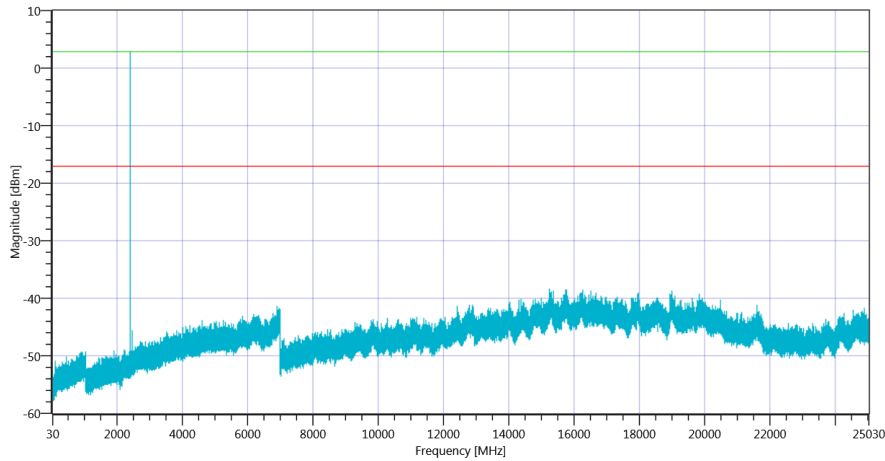
Test at TX 2402 MHz

READ SA SETTINGS:

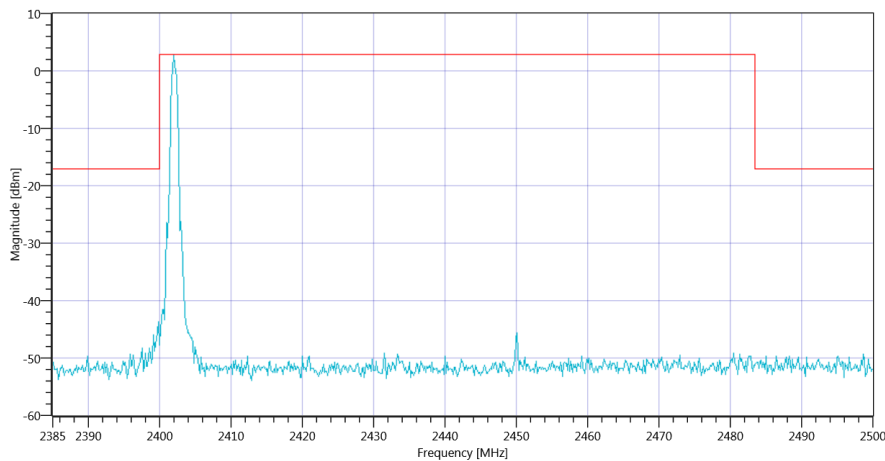
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.28 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2402.00 MHz | --- | --- | 2.94 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 15254 MHz | 0 | --- | 21.31 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2402_21042020_102149.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2402_21042020_102152.png

TEST FINISHED

General Verdict

21.04.2020 10:21:53 / RT: 293 s

PASS

26. FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:29:34 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

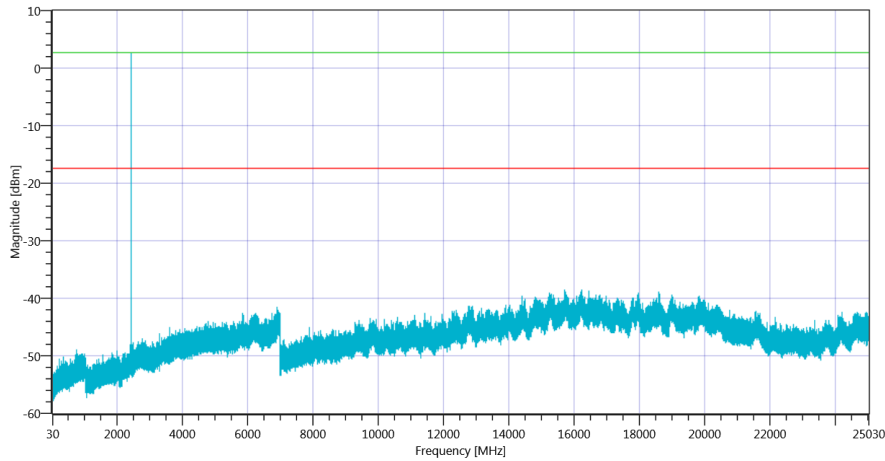
Test at TX 2440 MHz

READ SA SETTINGS:

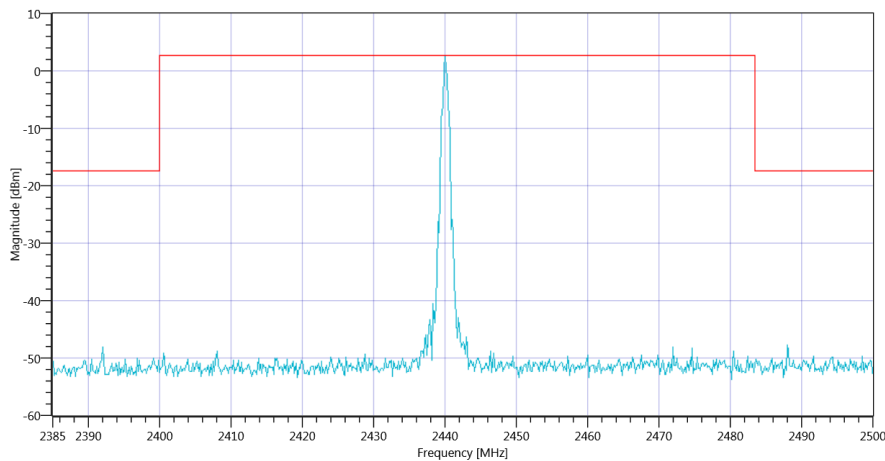
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.11 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2440.00 MHz | --- | --- | 2.61 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 16234.5 MHz | 0 | --- | 21.2 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2440_21042020_103423.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2440_21042020_103426.png

TEST FINISHED

General Verdict

21.04.2020 10:34:28 / RT: 293 s

PASS

27. FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:41:56 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

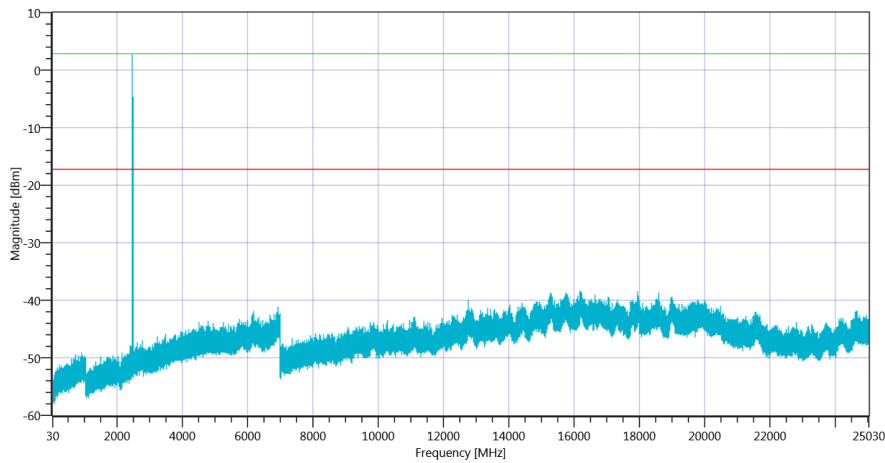
Test at TX 2480 MHz

READ SA SETTINGS:

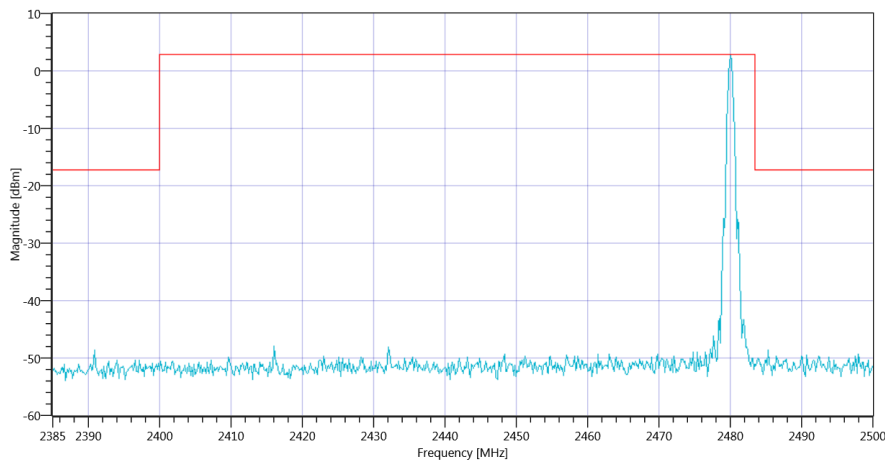
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.01 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---|-------------|-------------|----------|------|---------|
| Reference @ 2480.00 MHz | --- | --- | 2.83 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 16188.833 MHz | 0 | --- | 21.23 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2480_21042020_104646.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 1 Msps 2480_21042020_104649.png

TEST FINISHED

General Verdict

21.04.2020 10:46:50 / RT: 293 s

PASS

28. FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 09:46:30 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

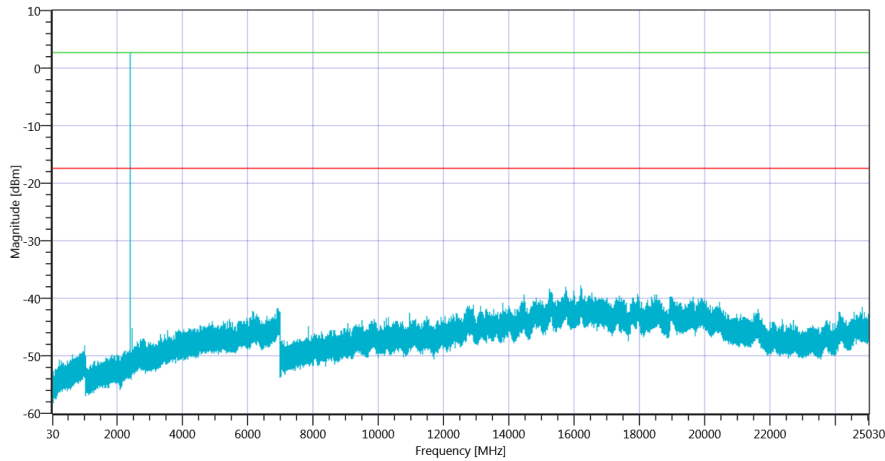
Test at TX 2402 MHz

READ SA SETTINGS:

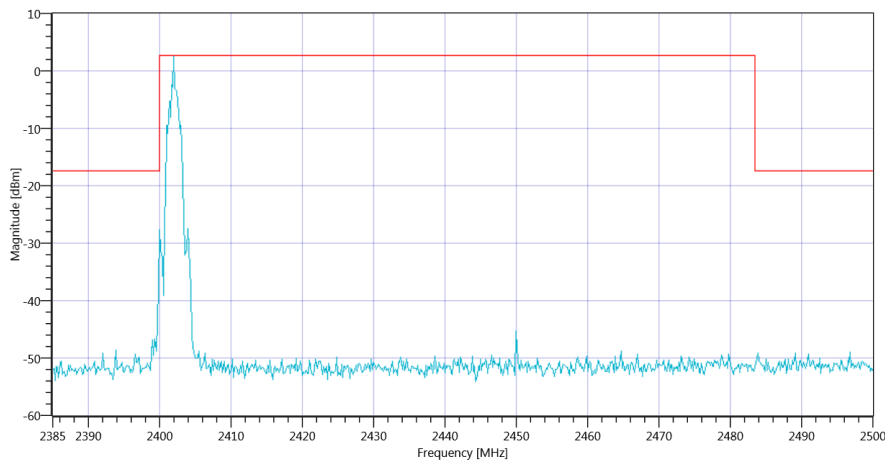
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.17 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--|-------------|-------------|----------|------|---------|
| Reference @ 2402.00 MHz | --- | --- | 2.62 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 2399.833 MHz | 0 | --- | 20.26 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2402_21042020_095119.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2402_21042020_095122.png

TEST FINISHED

General Verdict

21.04.2020 09:51:23 / RT: 293 s

PASS

29. FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 09:57:12 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

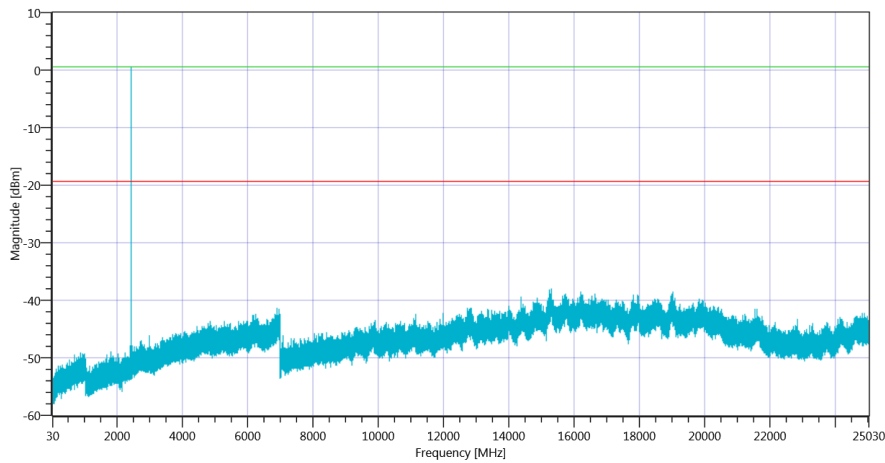
Test at TX 2440 MHz

READ SA SETTINGS:

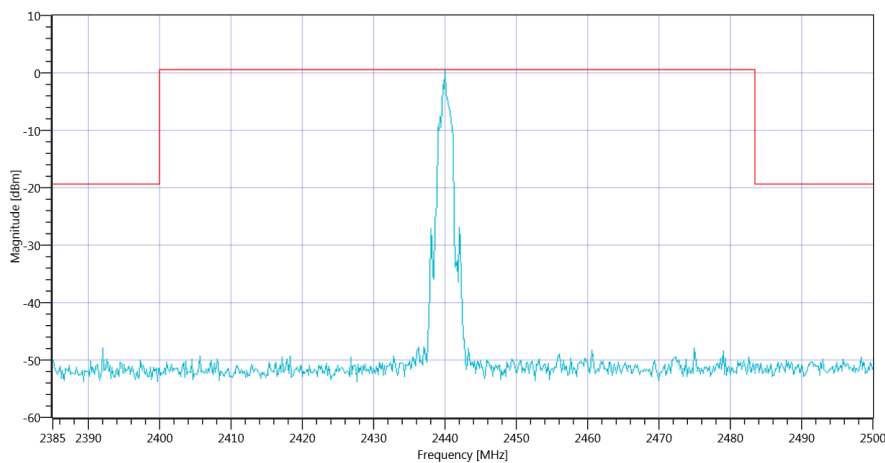
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.11 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---|-------------|-------------|----------|------|---------|
| Reference @ 2440.00 MHz | --- | --- | 0.65 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 15290.833 MHz | 0 | --- | 18.67 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2440_21042020_100201.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2440_21042020_100204.png

TEST FINISHED

General Verdict

21.04.2020 10:02:06 / RT: 293 s

PASS

30. FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:07:05 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| Class / TC Version | TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 |
| My Description | FCC 15.247 TX Emissions Conducted DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

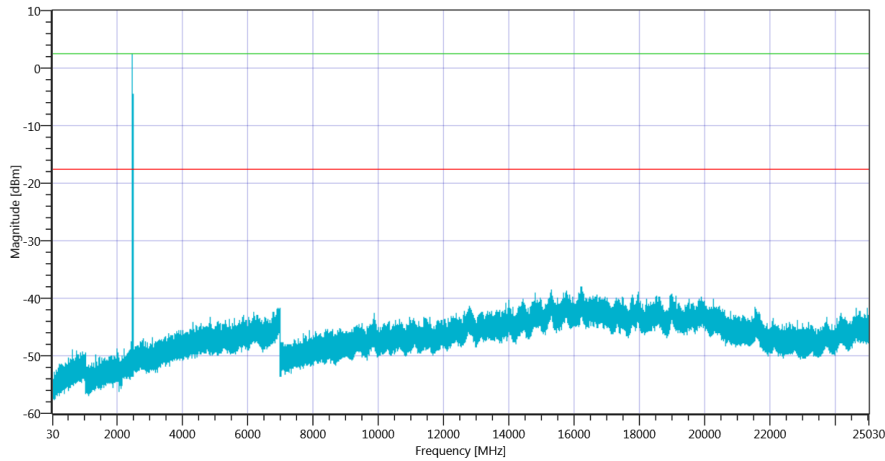
Test at TX 2480 MHz

READ SA SETTINGS:

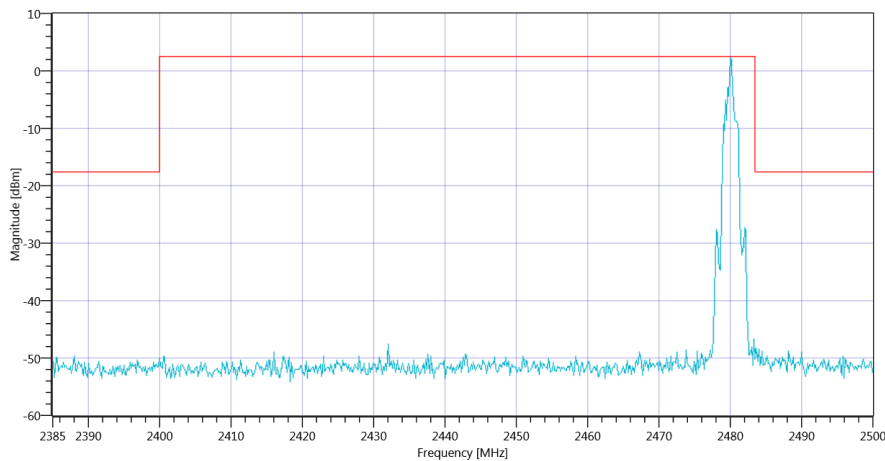
| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.65 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 500 8 3001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2480.00 MHz | --- | --- | 2.43 | dBm | INFO |
| No peaks detected | --- | --- | | | PASS |
| Lowest margin to limit 16210.5 MHz | 0 | --- | 20.44 | dB | INFO |



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2480_21042020_101154.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ BT LE 2 Msps 2480_21042020_101157.png

TEST FINISHED

General Verdict

21.04.2020 10:11:59 / RT: 293 s

PASS

31. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:21:58 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - 8.7.3 Integration Method; ANSI C63.10-2013 11.13.3.2 Peak Detection |
| Class / TC Version | TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Restricted Band Edge Conducted Peak DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

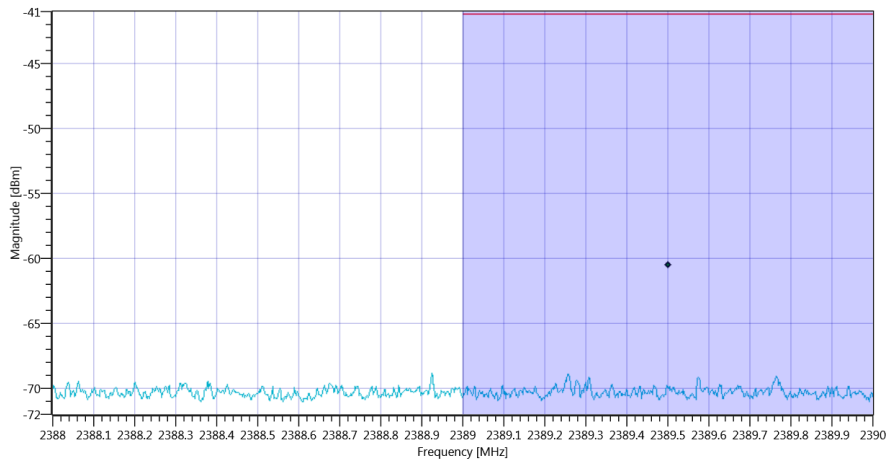
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.15 10.41 15 |
| Start [MHz] Stop [MHz] | 2388.000 2390.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.002000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 8 300 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------|-------------|-------------|----------|------|-------------|
| Band Power without Antenna Gain | --- | -41.23 | -60.56 | dBm | Information |
| Band Power incl. Antenna Gain | --- | -41.23 | -60.56 | dBm | PASS |



TEST FINISHED

General Verdict

21.04.2020 10:22:17 / RT: 19 s

PASS

32. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 1 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:46:54 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - 8.7.3 Integration Method; ANSI C63.10-2013 11.13.3.2 Peak Detection |
| Class / TC Version | TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Restricted Band Edge Conducted Peak DTS - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

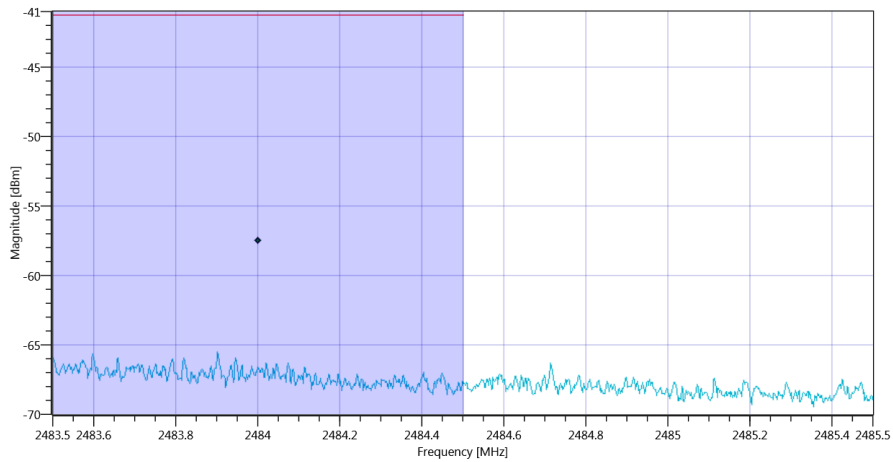
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.81 10.55 15 |
| Start [MHz] Stop [MHz] | 2483.500 2485.500 |
| RBW [MHz] VBW [MHz] | 0.100000 0.002000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 8 300 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------|-------------|-------------|----------|------|-------------|
| Band Power without Antenna Gain | --- | -41.23 | -57.51 | dBm | Information |
| Band Power incl. Antenna Gain | --- | -41.23 | -57.51 | dBm | PASS |



Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 1 MspS_21042020_104713.png

TEST FINISHED

General Verdict

21.04.2020 10:47:13 / RT: 18 s

PASS

33. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 09:51:28 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - 8.7.3 Integration Method; ANSI C63.10-2013 11.13.3.2 Peak Detection |
| Class / TC Version | TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Restricted Band Edge Conducted Peak DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

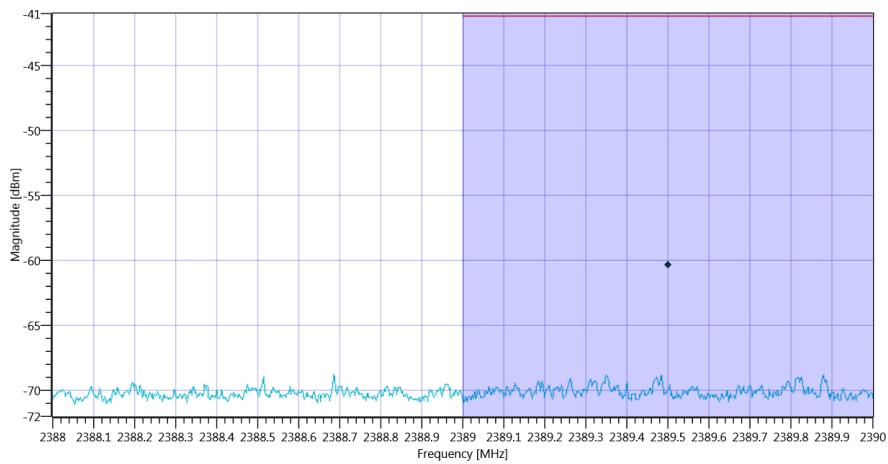
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.95 10.41 15 |
| Start [MHz] Stop [MHz] | 2388.000 2390.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.002000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 8 300 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------|-------------|-------------|----------|------|-------------|
| Band Power without Antenna Gain | --- | -41.23 | -60.35 | dBm | Information |
| Band Power incl. Antenna Gain | --- | -41.23 | -60.35 | dBm | PASS |



Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 2 MspS_21042020_095146.png

TEST FINISHED

General Verdict

21.04.2020 09:51:47 / RT: 19 s

PASS

34. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 2 Msps

| Test References | |
|--------------------|---|
| TC Start | 21.04.2020 10:12:03 |
| System Version | 1.0.0.43 |
| Test Specification | FCC Part 15.247 |
| Test Method | DTS: KDB 558074 D01 V05 - 8.7.3 Integration Method; ANSI C63.10-2013 11.13.3.2 Peak Detection |
| Class / TC Version | TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 |
| My Description | FCC 15.247 Restricted Band Edge Conducted Peak DTS - BT LE 2 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 2 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

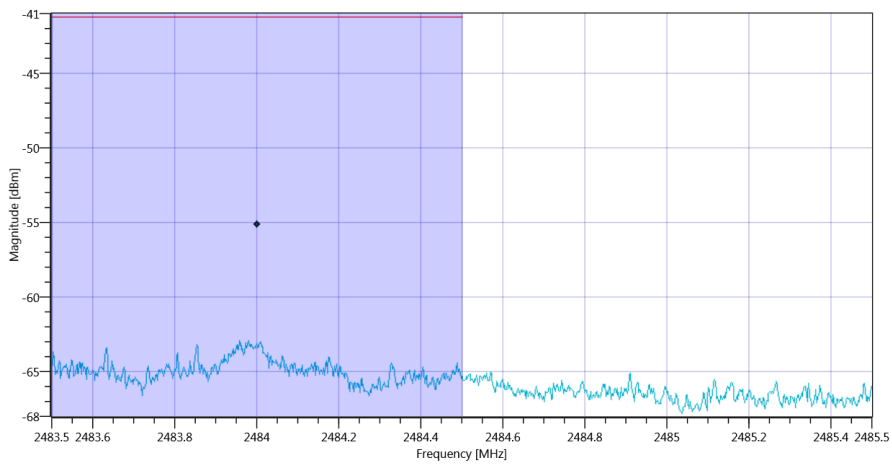
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.66 10.55 15 |
| Start [MHz] Stop [MHz] | 2483.500 2485.500 |
| RBW [MHz] VBW [MHz] | 0.100000 0.002000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 8 300 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|---------------------------------|-------------|-------------|----------|------|-------------|
| Band Power without Antenna Gain | --- | -41.23 | -55.18 | dBm | Information |
| Band Power incl. Antenna Gain | --- | -41.23 | -55.18 | dBm | PASS |



Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Video Avg ~ BT LE 2 MspS_21042020_101222.png

TEST FINISHED

General Verdict

21.04.2020 10:12:22 / RT: 19 s

PASS

35. Common2G4 Peak OP 3MHz/3MHz ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:13:44 |
| System Version | 1.0.0.43 |
| Test Specification | None |
| Test Method | |
| Class / TC Version | TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01 Version: 0.0.1 |
| My Description | Peak Output Power conducted 3MHz/3MHz - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

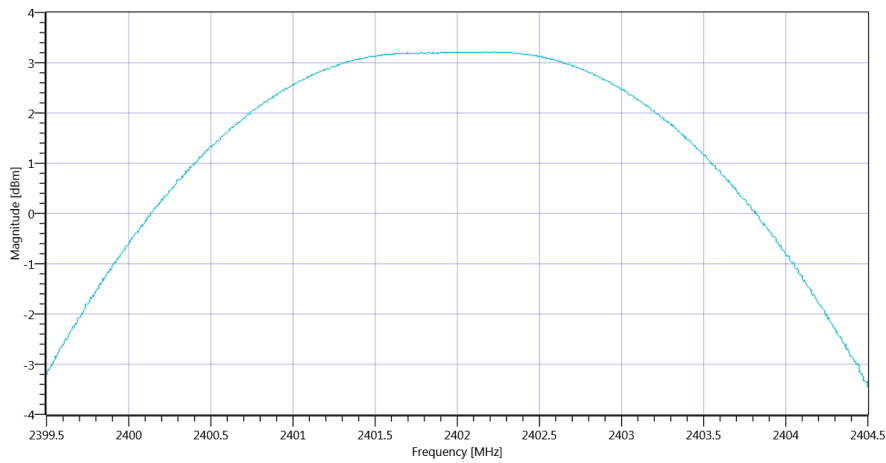
Test at TX 2402 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.05 10.41 20 |
| Start [MHz] Stop [MHz] | 2399.500 2404.500 |
| RBW [MHz] VBW [MHz] | 3.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 10 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | --- | 3.22 | dBm | Info |
| Peak Power | --- | --- | 2.09894 | mW | Info |
| Frequency at Peak | --- | --- | 2402.23 | MHz | Info |



Plot_Common2G4 Peak OP 3MHz-3MHz ~ BT LE 1 Msps_21042020_101410.png

TEST FINISHED

General Verdict

21.04.2020 10:14:11 / RT: 26 s

PASS

36. Common2G4 Peak OP 3MHz/3MHz ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:26:16 |
| System Version | 1.0.0.43 |
| Test Specification | None |
| Test Method | |
| Class / TC Version | TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01 Version: 0.0.1 |
| My Description | Peak Output Power conducted 3MHz/3MHz - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2440 |
| Frequency high to test | False Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

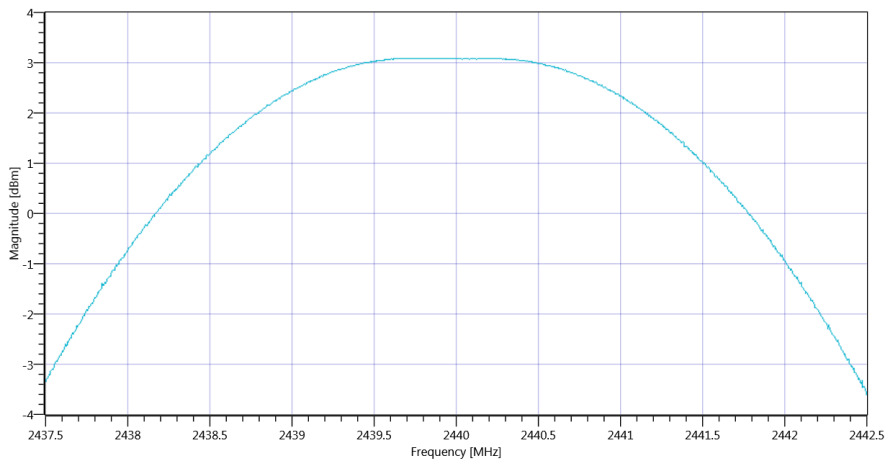
Test at TX 2440 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.98 10.5 20 |
| Start [MHz] Stop [MHz] | 2437.500 2442.500 |
| RBW [MHz] VBW [MHz] | 3.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 10 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | --- | 3.09 | dBm | Info |
| Peak Power | --- | --- | 2.037042 | mW | Info |
| Frequency at Peak | --- | --- | 2439.745 | MHz | Info |



Plot_Common2G4 Peak OP 3MHz-3MHz ~ BT LE 1 Msps_21042020_102642.png

TEST FINISHED

General Verdict

21.04.2020 10:26:43 / RT: 26 s

PASS

37. Common2G4 Peak OP 3MHz/3MHz ~ BT LE 1 Msps

| Test References | |
|--------------------|--|
| TC Start | 21.04.2020 10:38:40 |
| System Version | 1.0.0.43 |
| Test Specification | None |
| Test Method | |
| Class / TC Version | TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01 Version: 0.0.1 |
| My Description | Peak Output Power conducted 3MHz/3MHz - BT LE 1 Msps |
| Add. Information | |

| Test Parameter | |
|------------------------|---|
| Technology to test | BT LE 1 Msps |
| Antenna Port used | 1 |
| Temperature | mid |
| Voltage | mid |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2440 |
| Frequency high to test | True Freq [MHz] 2480 |
| Switched Path | IUT - SignalingUnit - SpectrumAnalyzer |
| Devices in use | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |

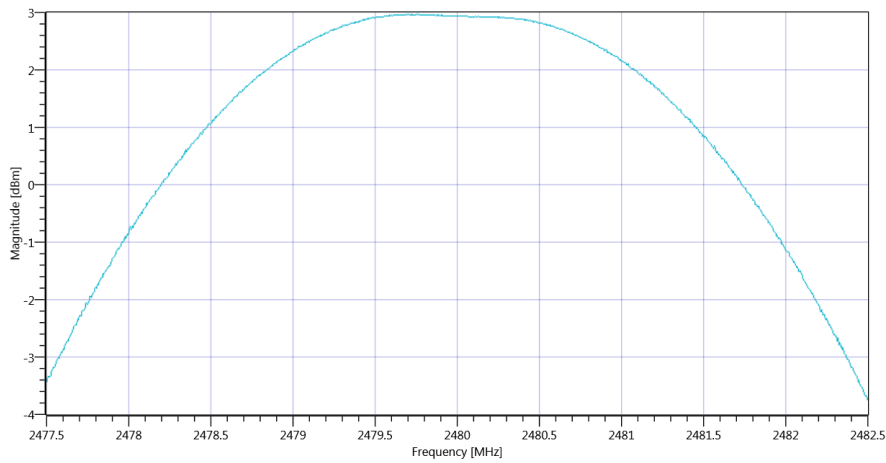
Test at TX 2480 MHz

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.79 10.55 20 |
| Start [MHz] Stop [MHz] | 2477.500 2482.500 |
| RBW [MHz] VBW [MHz] | 3.000000 3.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: Time [ms] Count Points per Section Type | 1000 10 1001 SWE |

RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power | --- | --- | 2.97 | dBm | Info |
| Peak Power | --- | --- | 1.981527 | mW | Info |
| Frequency at Peak | --- | --- | 2479.765 | MHz | Info |



Plot_Common2G4 Peak OP 3MHz-3MHz ~ BT LE 1 Msps_21042020_103906.png

TEST FINISHED

General Verdict

21.04.2020 10:39:07 / RT: 26 s

PASS

- END OF DOCUMENT -