# 1. RF Output Power, Duty Cycle, Tx-sequence, Tx-gap, Medium Utilization

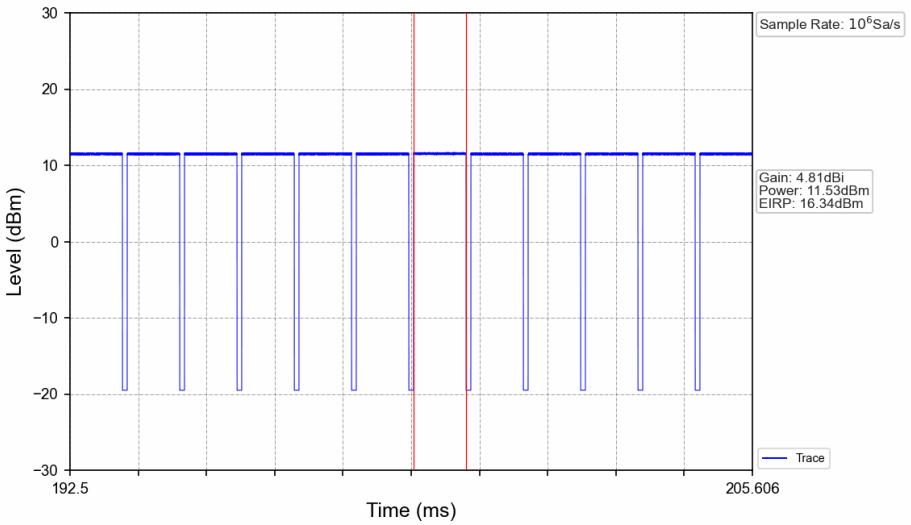
## 1.1 Power

### 1.1.1 Test Result

| ENV | Mode | TX Type | Frequency (MHz) | ANT | Gain (dBi) | Power (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NTNV | 802.11b | SISO | 2412 | 1 | 4.81 | 11.53 | 16.34 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 12.58 | 17.39 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 12.48 | 17.29 | <=20 | Pass |
| | 802.11g | SISO | 2412 | 1 | 4.81 | 10.48 | 15.29 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 11.66 | 16.47 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 11.46 | 16.27 | <=20 | Pass |
| | 802.11n (HT20) | SISO | 2412 | 1 | 4.81 | 9.71 | 14.52 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.77 | 15.58 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 10.63 | 15.44 | <=20 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | 4.81 | 9.11 | 13.92 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.08 | 14.89 | <=20 | Pass |
| | | | 2462 | 1 | 4.81 | 10.25 | 15.06 | <=20 | Pass |
| HTNV | 802.11b | SISO | 2412 | 1 | 4.81 | 11.55 | 16.36 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 12.58 | 17.39 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 12.49 | 17.30 | <=20 | Pass |
| | 802.11g | SISO | 2412 | 1 | 4.81 | 10.49 | 15.30 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 11.67 | 16.48 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 11.48 | 16.29 | <=20 | Pass |
| | 802.11n (HT20) | SISO | 2412 | 1 | 4.81 | 9.72 | 14.53 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.78 | 15.59 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 10.63 | 15.44 | <=20 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | 4.81 | 9.12 | 13.93 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.08 | 14.89 | <=20 | Pass |
| | | | 2462 | 1 | 4.81 | 10.25 | 15.06 | <=20 | Pass |
| LTNV | 802.11b | SISO | 2412 | 1 | 4.81 | 11.53 | 16.34 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 12.58 | 17.39 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 12.48 | 17.29 | <=20 | Pass |
| | 802.11g | SISO | 2412 | 1 | 4.81 | 10.47 | 15.28 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 11.67 | 16.48 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 11.45 | 16.26 | <=20 | Pass |
| | 802.11n (HT20) | SISO | 2412 | 1 | 4.81 | 9.70 | 14.51 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.75 | 15.56 | <=20 | Pass |
| | | | 2472 | 1 | 4.81 | 10.63 | 15.44 | <=20 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | 4.81 | 9.14 | 13.95 | <=20 | Pass |
| | | | 2442 | 1 | 4.81 | 10.05 | 14.86 | <=20 | Pass |
| | | | 2462 | 1 | 4.81 | 10.24 | 15.05 | <=20 | Pass |
| Note1: E.I.R.P = Measured Power + Antenna Gain | | | | | | | | | |

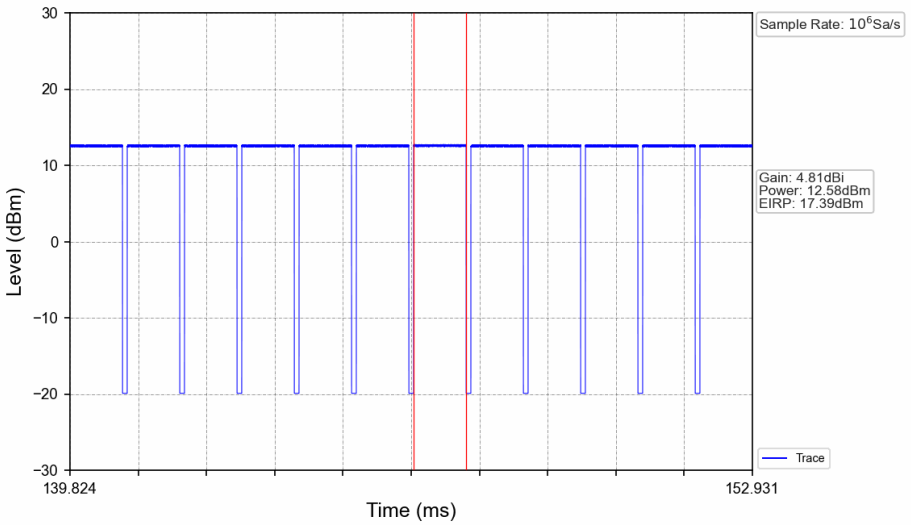
## 1.1.2 Test Graph

802.11b_2412MHz_Ant1 (SISO)_NTNV



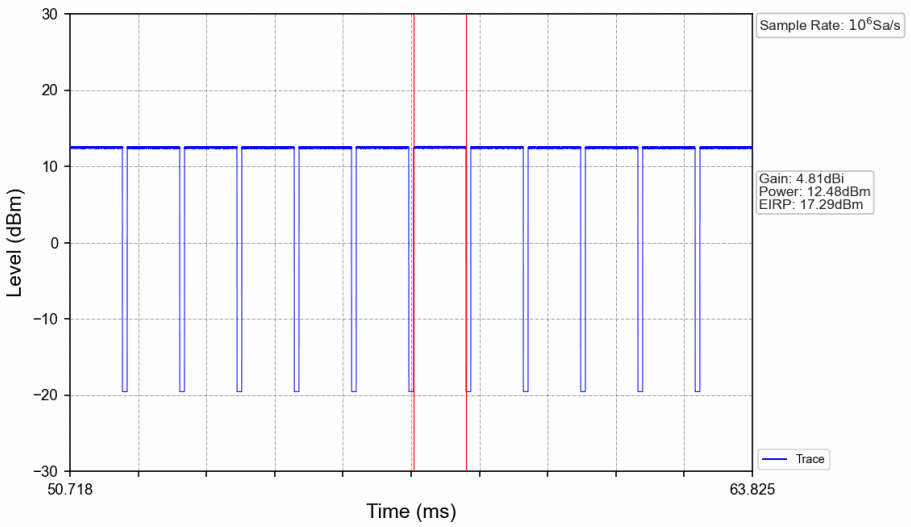

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.009 | 1.009 | 1.008 | **1.008** | 1.008 | 1.008 | 1.008 | 1.007 | 1.008 |
| Power (dBm) | 11.49 | 11.50 | 11.49 | 11.49 | 11.50 | 11.49 | **11.53** | 11.48 | 11.49 | 11.50 | 11.51 | 11.50 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2442MHz_Ant1 (SISO)_NTNV



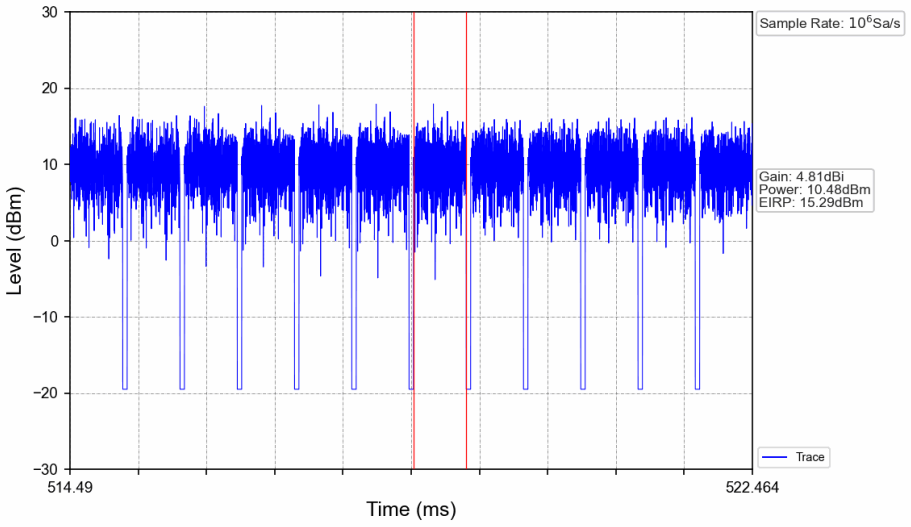

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.009 | 1.008 | 1.008 | 1.008 | 1.008 | 1.008 | **1.008** | 1.007 | 1.008 | 1.008 | 1.008 | 1.008 |
| Power (dBm) | 12.54 | 12.55 | 12.55 | 12.55 | 12.54 | 12.55 | **12.58** | 12.55 | 12.54 | 12.55 | 12.55 | 12.55 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2472MHz_Ant1 (SISO)_NTNV



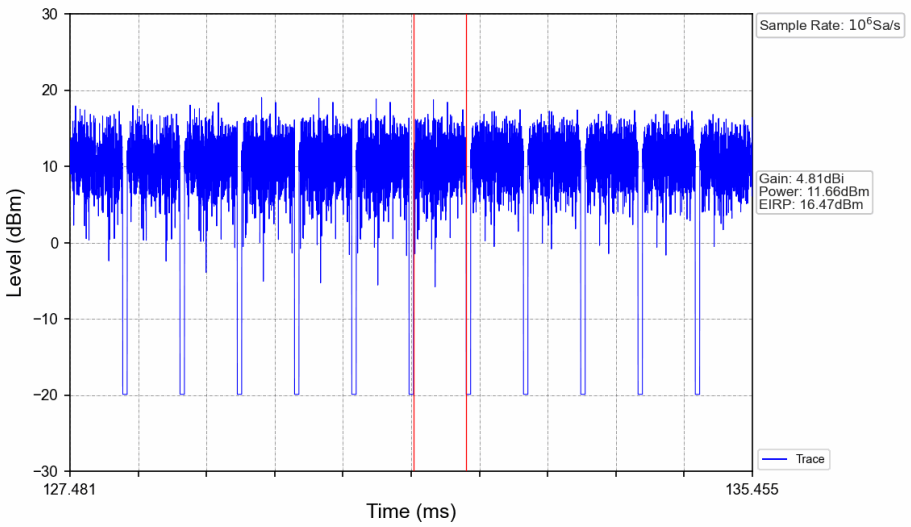

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.008 | 1.009 | 1.008 | **1.008** | 1.008 | 1.008 | 1.008 | 1.008 | 1.008 |
| Power (dBm) | 12.46 | 12.45 | 12.45 | 12.45 | 12.45 | 12.46 | **12.48** | 12.47 | 12.46 | 12.45 | 12.45 | 12.46 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2412MHz_Ant1 (SISO)_NTNV



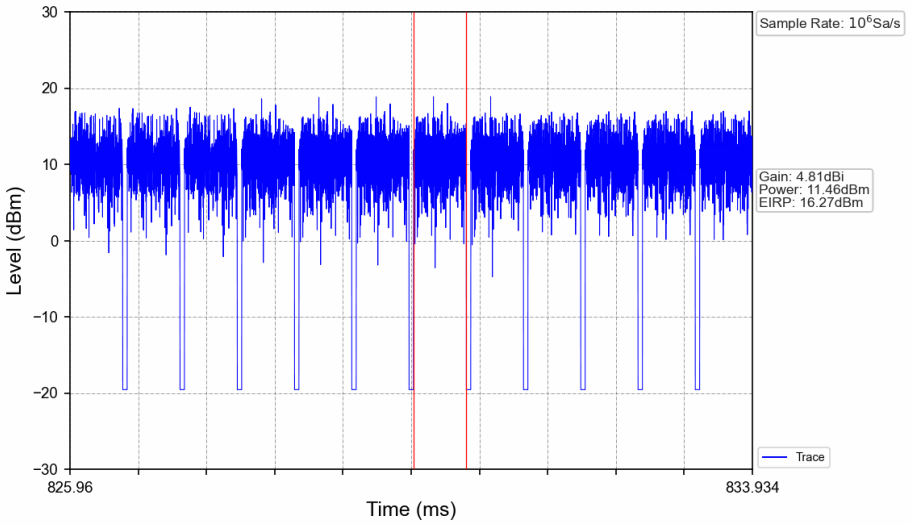

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.615** | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 10.26 | 10.25 | 10.48 | 10.45 | 10.46 | 10.46 | **10.48** | 10.25 | 10.25 | 10.26 | 10.26 | 10.28 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2442MHz_Ant1 (SISO)_NTNV



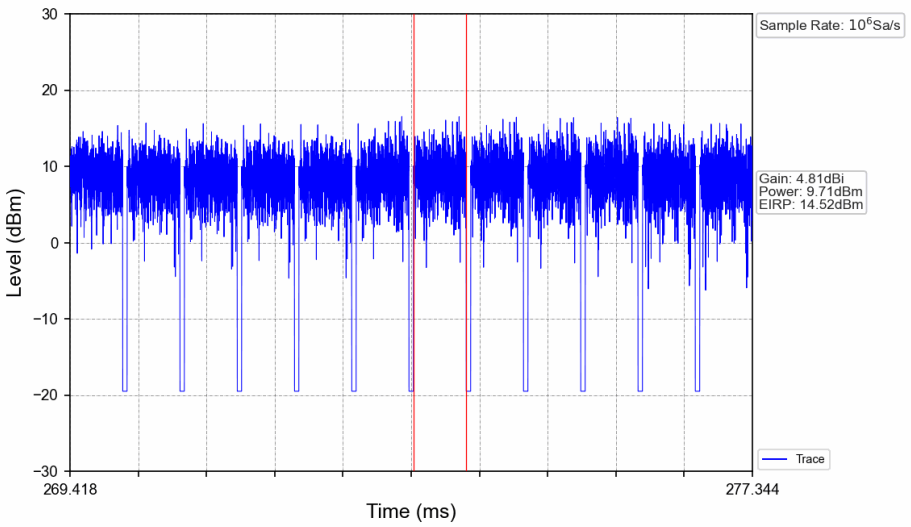

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.615** | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 11.40 | 11.40 | 11.56 | 11.64 | 11.64 | 11.63 | **11.66** | 11.46 | 11.46 | 11.46 | 11.45 | 11.44 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2472MHz_Ant1 (SISO)_NTNV



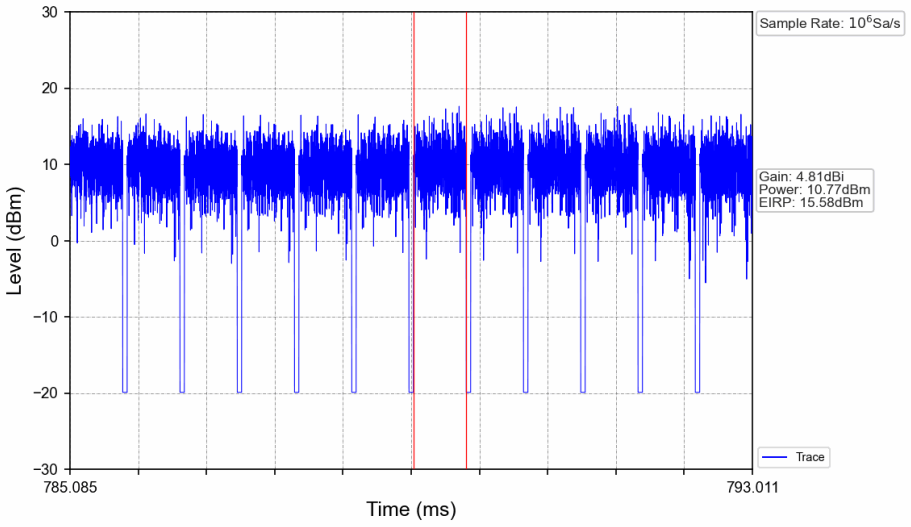

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.616** | 0.615 | 0.616 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 11.24 | 11.22 | 11.21 | 11.45 | 11.46 | 11.46 | **11.46** | 11.39 | 11.24 | 11.24 | 11.24 | 11.24 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



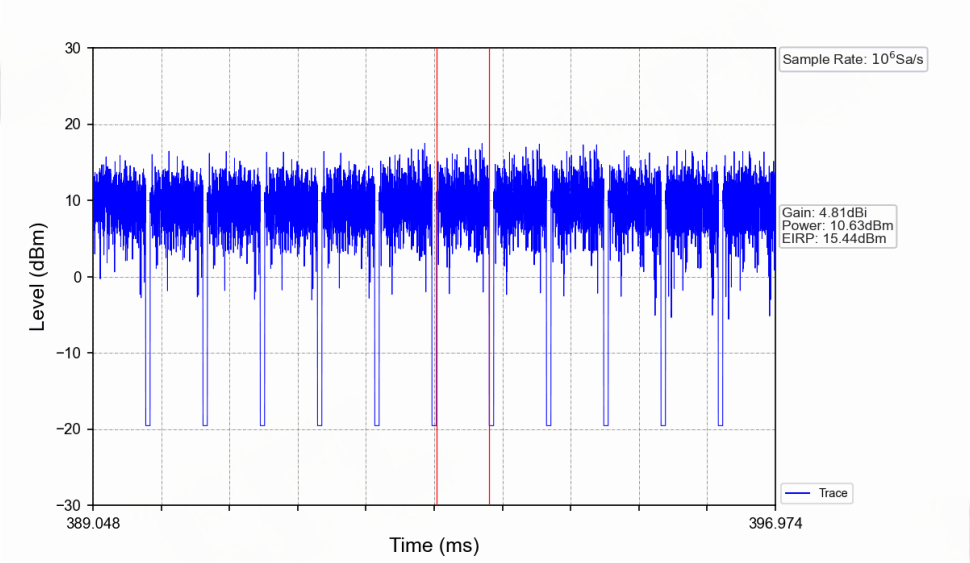

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 9.37 | 9.14 | 9.14 | 9.15 | 9.14 | 9.45 | **9.71** | 9.71 | 9.70 | 9.70 | 9.34 | 9.33 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



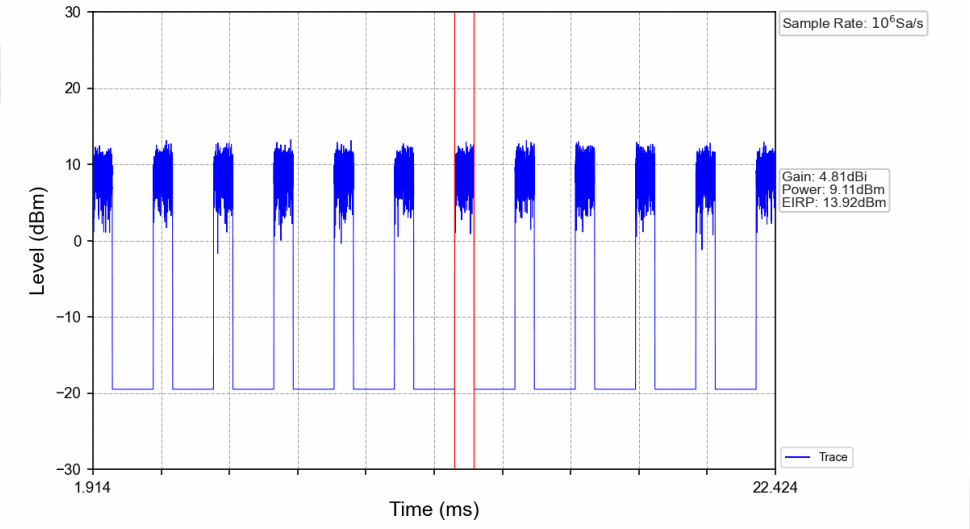

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.612 | 0.613 | 0.613 | 0.613 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.43 | 10.42 | 10.21 | 10.21 | 10.22 | 10.27 | **10.77** | 10.77 | 10.76 | 10.76 | 10.55 | 10.40 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



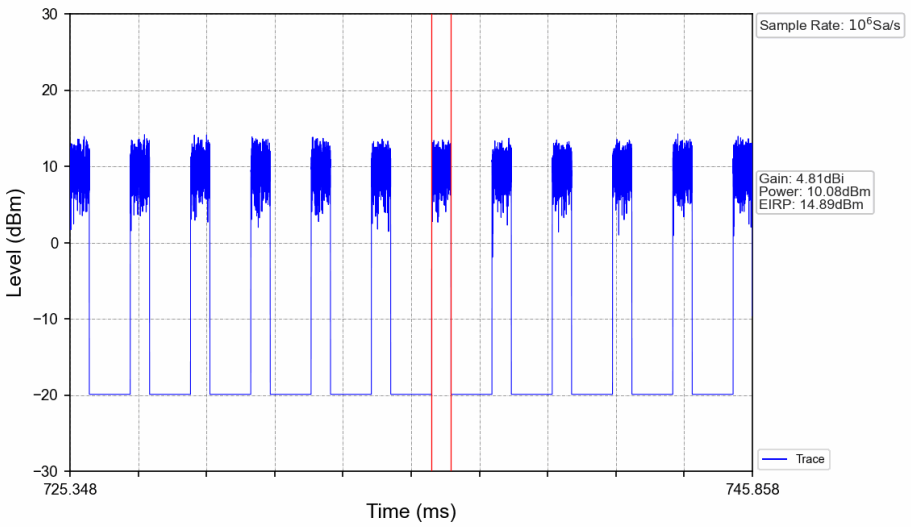

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.27 | 10.07 | 10.07 | 10.07 | 10.06 | 10.62 | **10.63** | 10.63 | 10.63 | 10.40 | 10.26 | 10.26 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



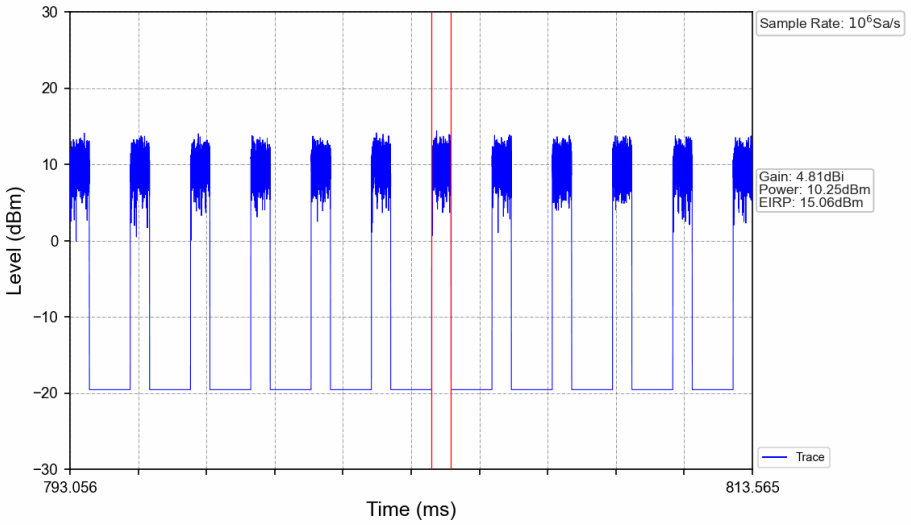

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.581 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.580 | 0.581 | 0.581 | 0.580 | 0.580 |
| Power (dBm) | 8.77 | 8.88 | 8.95 | 9.03 | 9.01 | 8.96 | **9.11** | 9.07 | 9.05 | 9.04 | 8.99 | 8.94 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



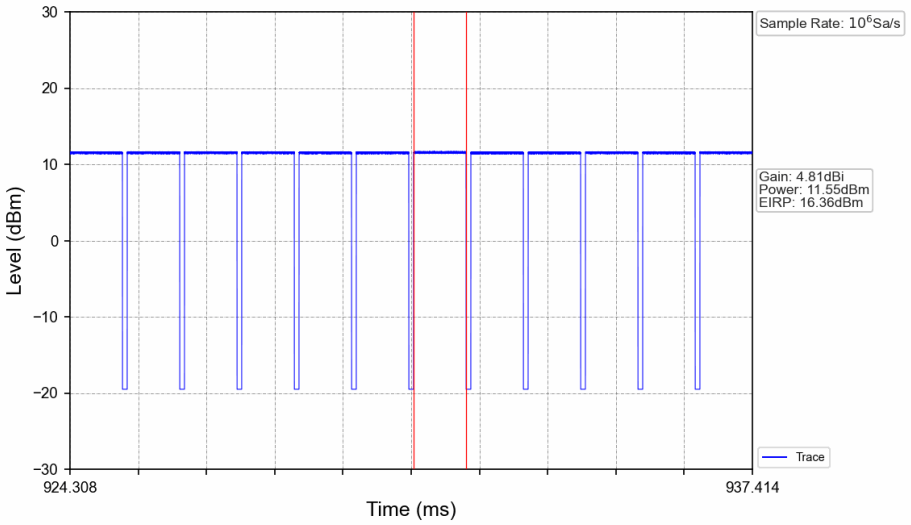

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.580 | 0.580 | 0.580 | 0.581 | 0.581 | 0.580 | **0.580** | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 |
| Power (dBm) | 9.98 | 9.99 | 9.98 | 10.00 | 10.02 | 9.99 | **10.08** | 9.91 | 9.92 | 9.93 | 10.03 | 9.98 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



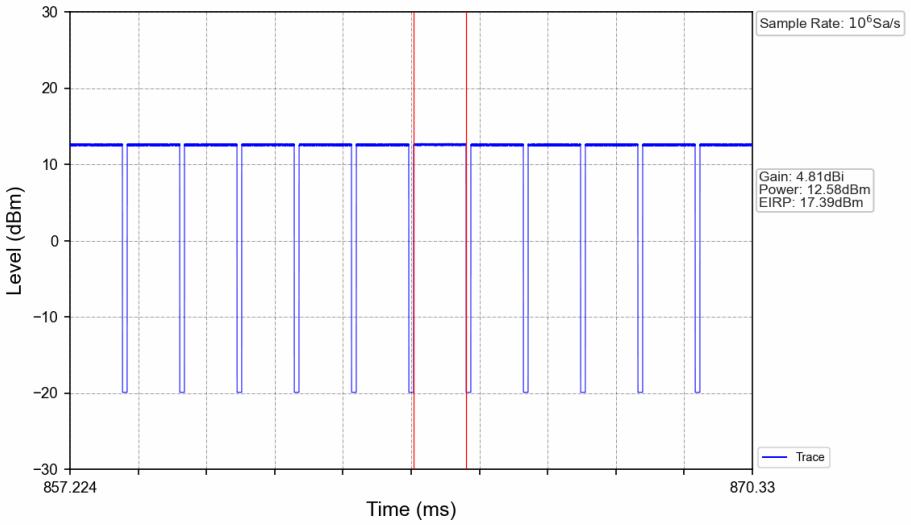

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.581 | 0.580 | 0.580 | 0.581 | 0.580 |
| Power (dBm) | 10.12 | 10.13 | 10.08 | 10.15 | 10.13 | 10.21 | **10.25** | 10.18 | 10.13 | 10.14 | 9.96 | 9.86 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2412MHz_Ant1 (SISO)_HTNV



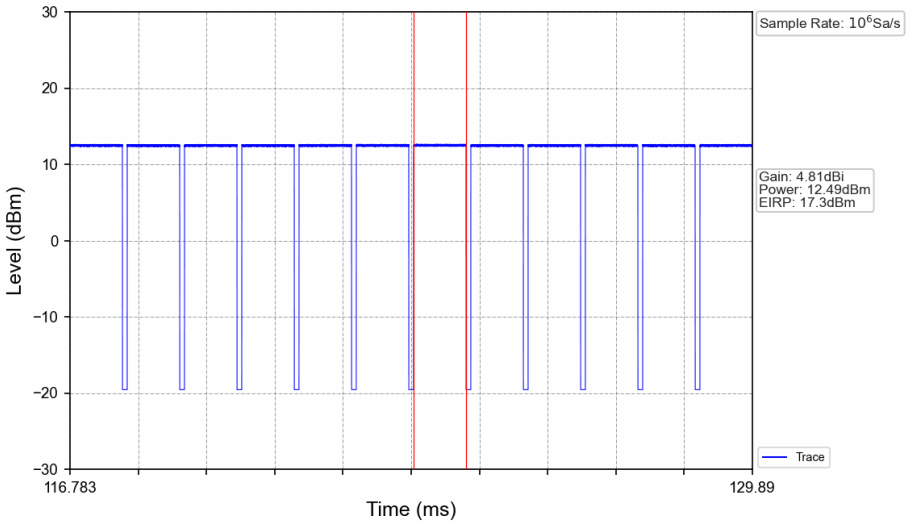

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.009 | 1.009 | 1.008 | **1.008** | 1.008 | 1.008 | 1.008 | 1.007 | 1.008 |
| Power (dBm) | 11.51 | 11.52 | 11.52 | 11.52 | 11.51 | 11.51 | **11.55** | 11.50 | 11.51 | 11.52 | 11.51 | 11.52 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2442MHz_Ant1 (SISO)_HTNV



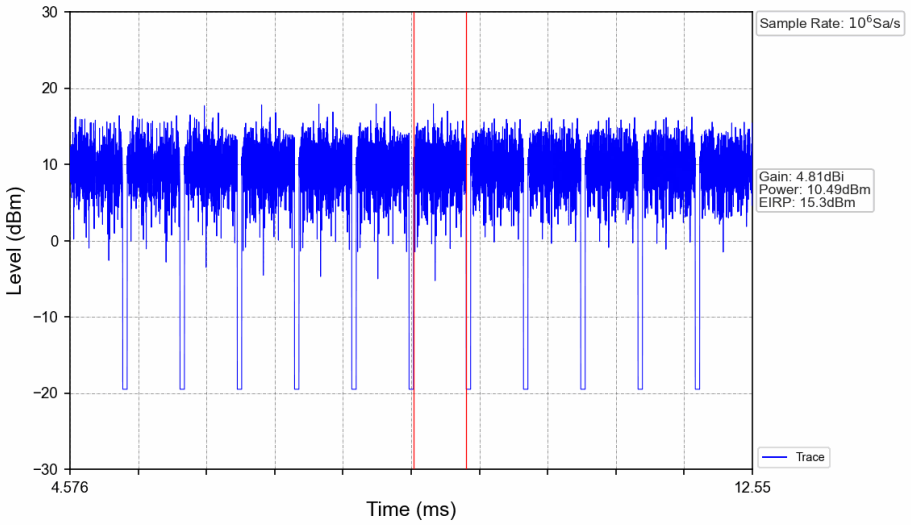

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.009 | 1.009 | 1.008 | 1.008 | 1.008 | **1.008** | 1.008 | 1.007 | 1.008 | 1.008 | 1.008 |
| Power (dBm) | 12.55 | 12.55 | 12.55 | 12.55 | 12.56 | 12.55 | **12.58** | 12.55 | 12.54 | 12.55 | 12.55 | 12.56 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2472MHz_Ant1 (SISO)_HTNV



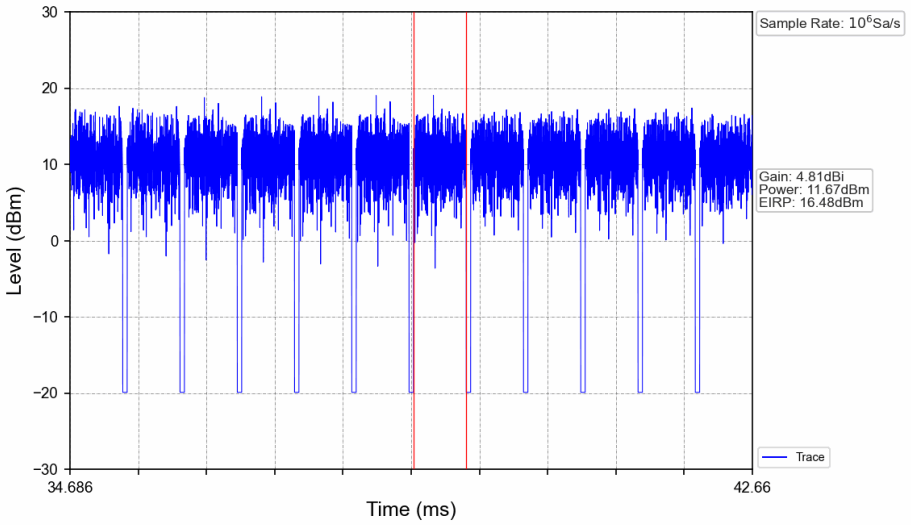

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.008 | 1.009 | 1.008 | **1.008** | 1.008 | 1.008 | 1.008 | 1.008 | 1.008 |
| Power (dBm) | 12.47 | 12.46 | 12.46 | 12.46 | 12.47 | 12.47 | **12.49** | 12.47 | 12.46 | 12.47 | 12.47 | 12.47 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2412MHz_Ant1 (SISO)_HTNV



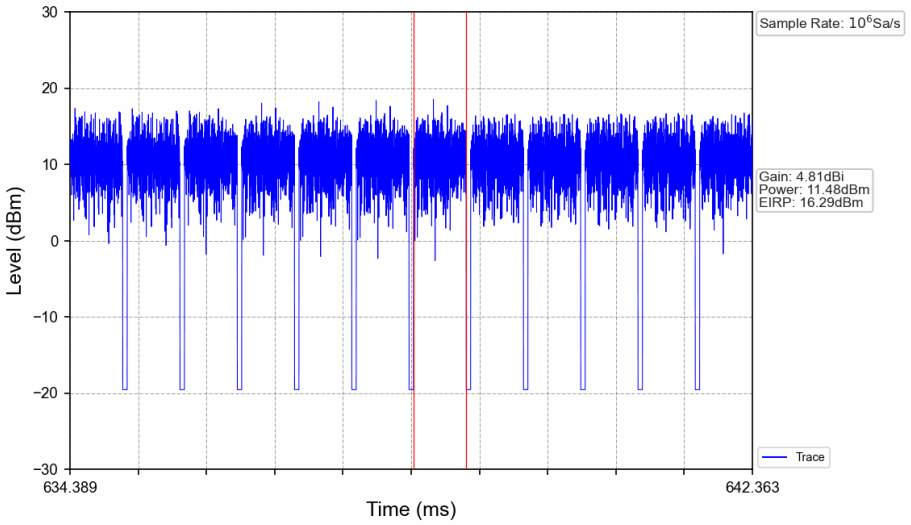

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.615** | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 10.26 | 10.24 | 10.48 | 10.45 | 10.46 | 10.46 | **10.49** | 10.26 | 10.25 | 10.26 | 10.26 | 10.27 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2442MHz_Ant1 (SISO)_HTNV



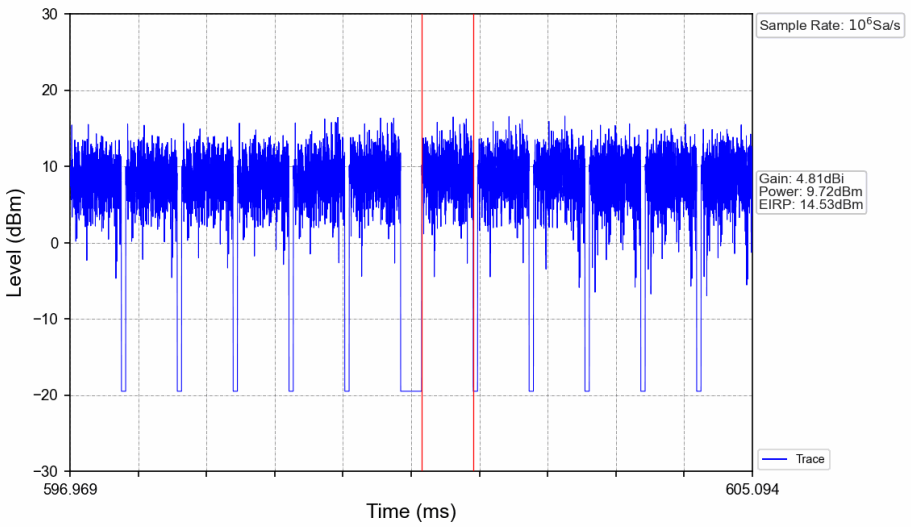

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.616** | 0.617 | 0.617 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 11.43 | 11.42 | 11.58 | 11.62 | 11.63 | 11.64 | **11.67** | 11.42 | 11.43 | 11.45 | 11.46 | 11.41 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2472MHz_Ant1 (SISO)_HTNV



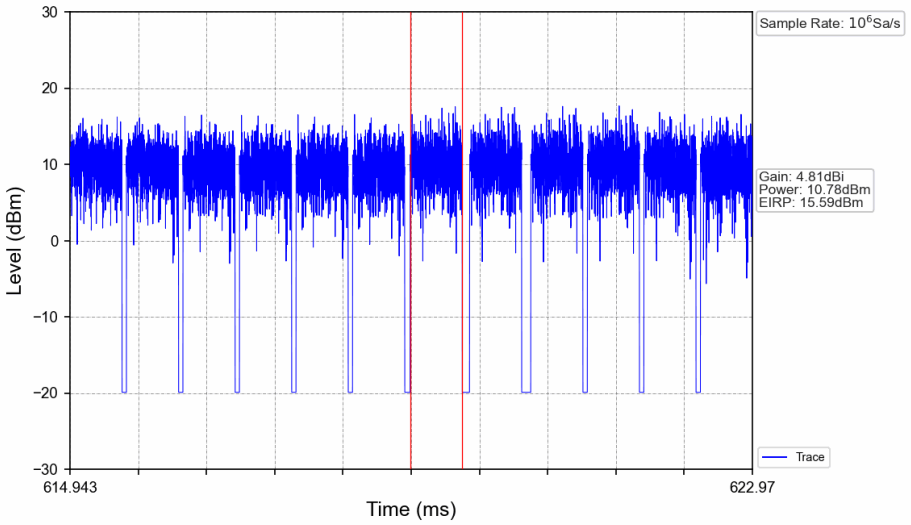

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.616** | 0.617 | 0.617 | 0.617 | 0.617 | 0.616 |
| Power (dBm) | 11.28 | 11.26 | 11.38 | 11.41 | 11.41 | 11.42 | **11.48** | 11.18 | 11.19 | 11.21 | 11.22 | 11.31 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2412MHz_Ant1 (SISO)_HTNV



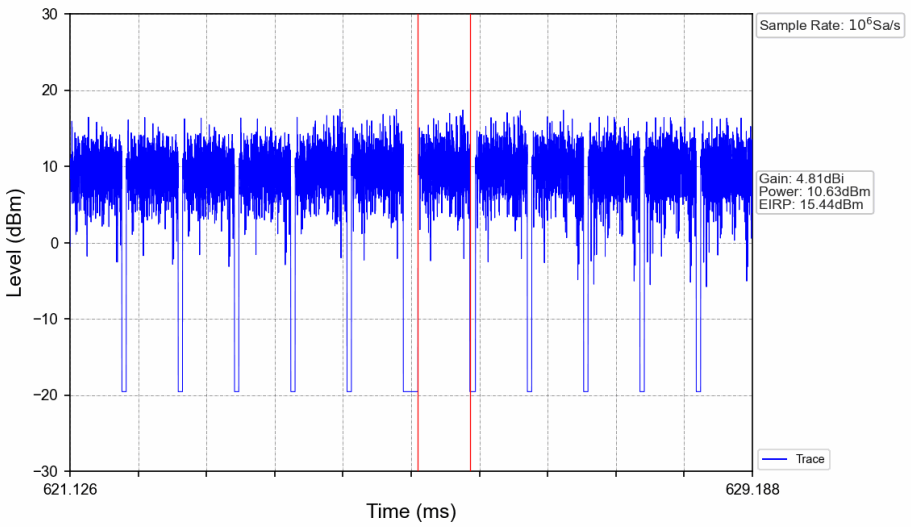

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.613 | 0.613 | 0.613 | 0.612 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 9.14 | 9.14 | 9.14 | 9.14 | 9.36 | 9.70 | **9.72** | 9.70 | 9.54 | 9.32 | 9.31 | 9.30 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2442MHz_Ant1 (SISO)_HTNV



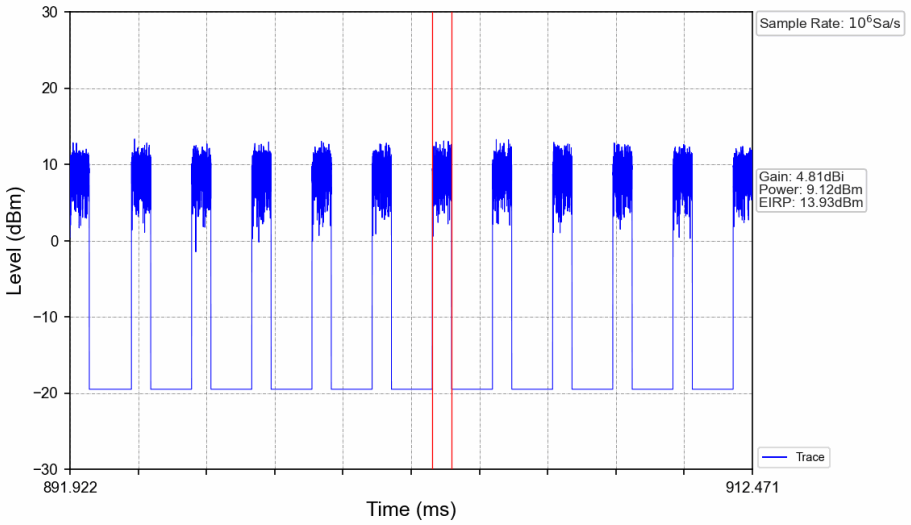

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.42 | 10.41 | 10.21 | 10.21 | 10.21 | 10.21 | **10.78** | 10.77 | 10.77 | 10.76 | 10.62 | 10.39 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2472MHz_Ant1 (SISO)_HTNV



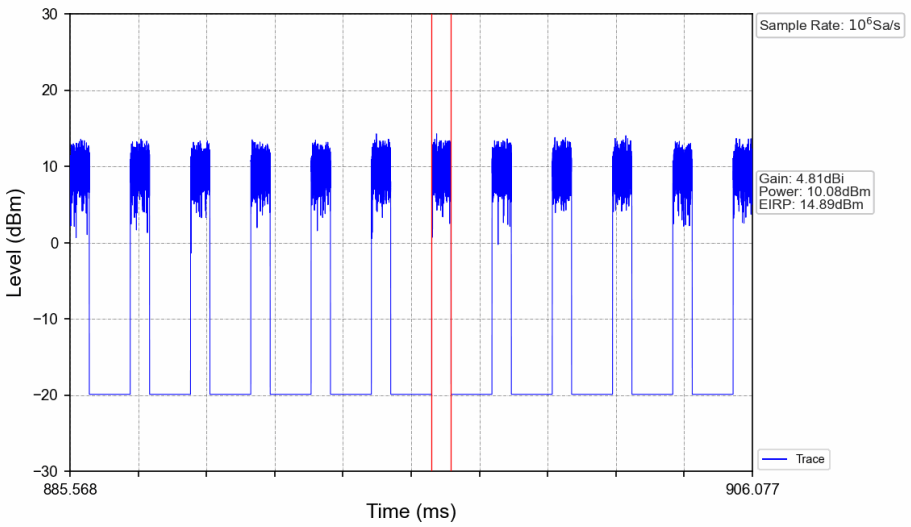

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.613 | 0.613 | 0.613 | 0.613 | 0.612 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.06 | 10.06 | 10.06 | 10.06 | 10.44 | 10.61 | **10.63** | 10.62 | 10.45 | 10.25 | 10.25 | 10.24 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2422MHz_Ant1 (SISO)_HTNV



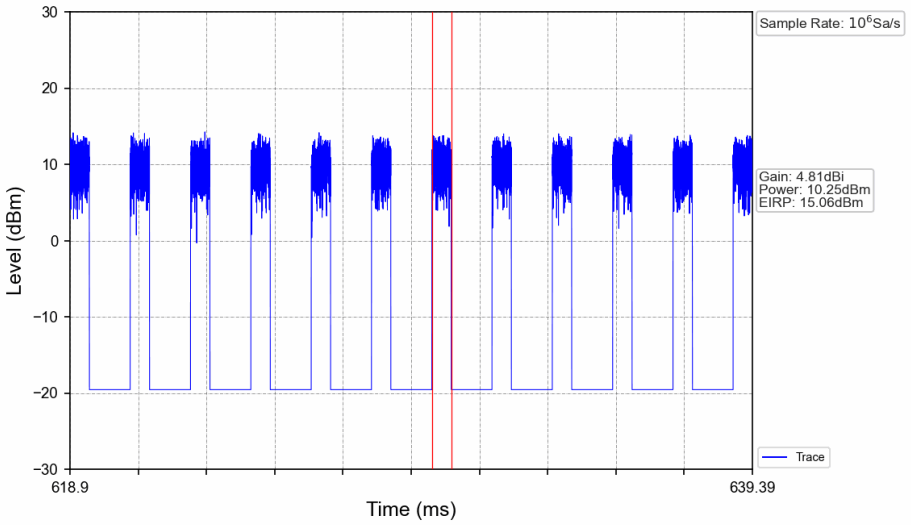

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.581 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.580 | 0.581 | 0.581 | 0.580 | 0.580 |
| Power (dBm) | 8.77 | 8.94 | 8.95 | 9.00 | 9.02 | 9.01 | **9.12** | 9.04 | 9.03 | 9.05 | 9.02 | 8.97 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2442MHz_Ant1 (SISO)_HTNV



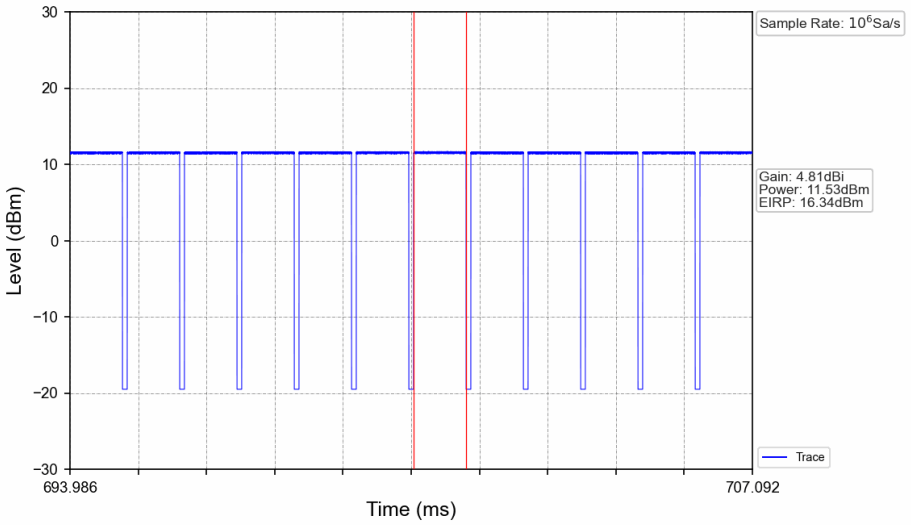

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.581 | 0.580 | 0.580 | 0.581 | 0.580 |
| Power (dBm) | 9.96 | 9.99 | 9.91 | 9.94 | 9.92 | 10.03 | **10.08** | 10.00 | 9.94 | 9.92 | 9.74 | 9.66 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2462MHz_Ant1 (SISO)_HTNV



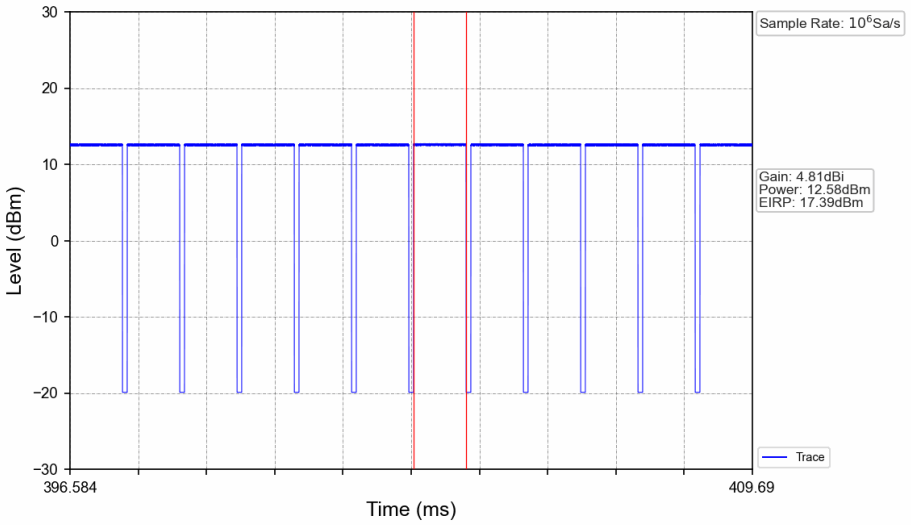

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.581 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.580 | 0.581 | 0.581 | 0.580 | 0.580 |
| Power (dBm) | 10.12 | 10.18 | 10.10 | 10.11 | 10.08 | 10.16 | **10.25** | 10.23 | 10.20 | 10.18 | 10.13 | 10.12 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2412MHz_Ant1 (SISO)_LTNV



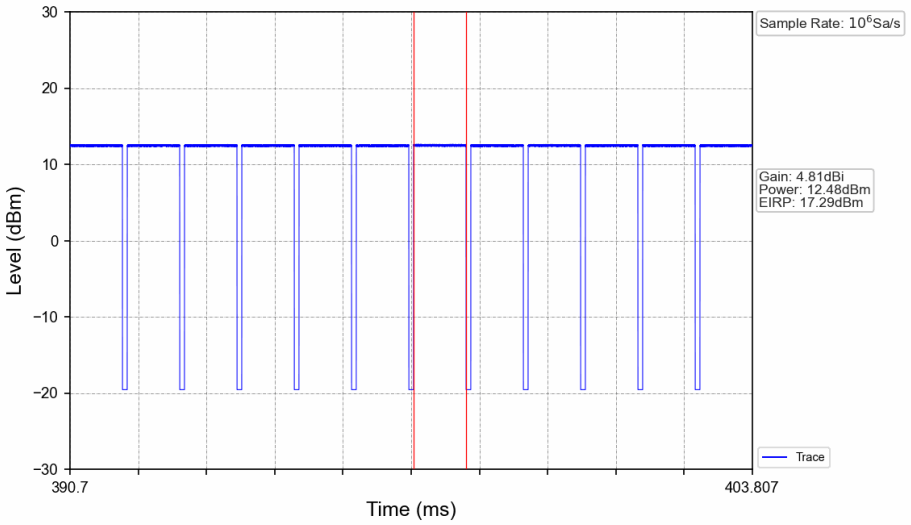

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.007 | 1.008 | 1.008 | 1.008 | 1.008 | **1.008** | 1.008 | 1.009 | 1.009 | 1.008 | 1.008 |
| Power (dBm) | 11.50 | 11.51 | 11.50 | 11.51 | 11.51 | 11.52 | **11.53** | 11.50 | 11.50 | 11.50 | 11.51 | 11.52 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2442MHz_Ant1 (SISO)_LTNV



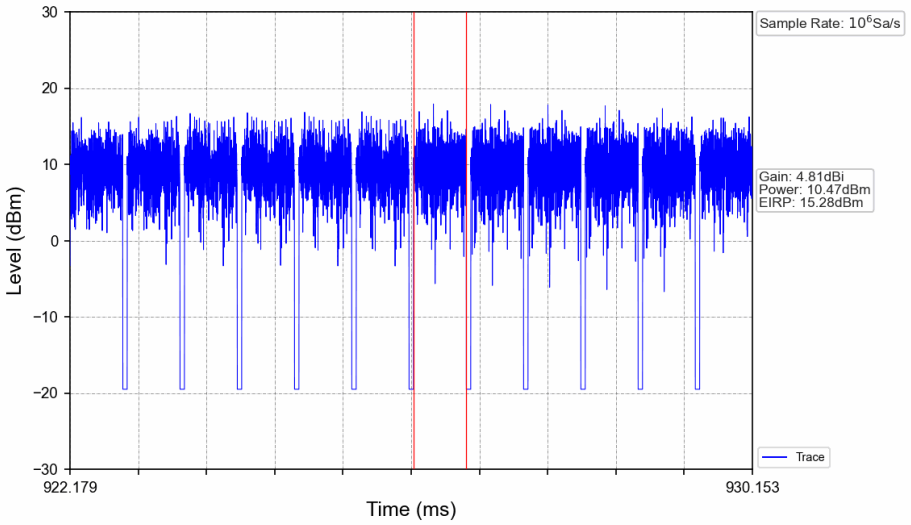

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.009 | 1.009 | 1.008 | **1.008** | 1.008 | 1.009 | 1.009 | 1.008 | 1.008 |
| Power (dBm) | 12.54 | 12.55 | 12.54 | 12.54 | 12.54 | 12.55 | **12.58** | 12.56 | 12.54 | 12.54 | 12.54 | 12.55 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11b_2472MHz_Ant1 (SISO)_LTNV



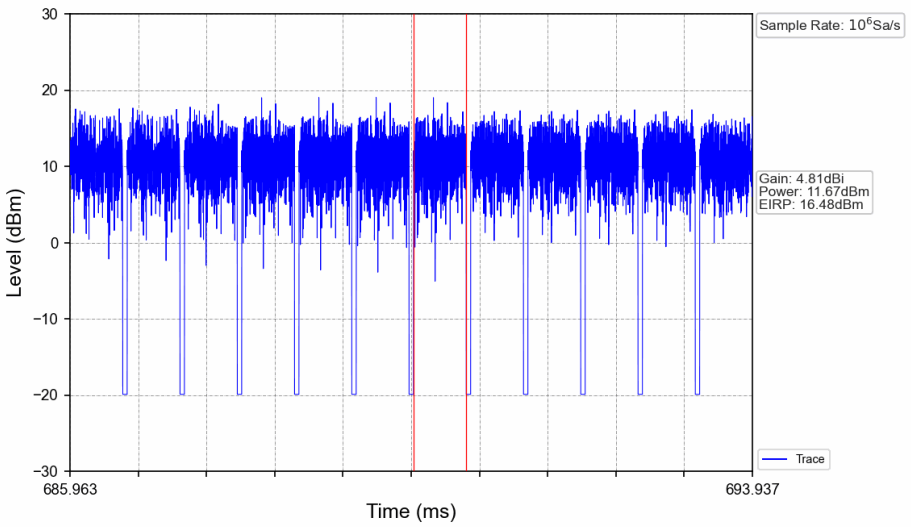

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 1.008 | 1.008 | 1.008 | 1.008 | 1.009 | 1.009 | **1.008** | 1.008 | 1.008 | 1.008 | 1.008 | 1.008 |
| Power (dBm) | 12.46 | 12.46 | 12.46 | 12.45 | 12.45 | 12.45 | **12.48** | 12.46 | 12.47 | 12.46 | 12.46 | 12.45 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2412MHz_Ant1 (SISO)_LTNV



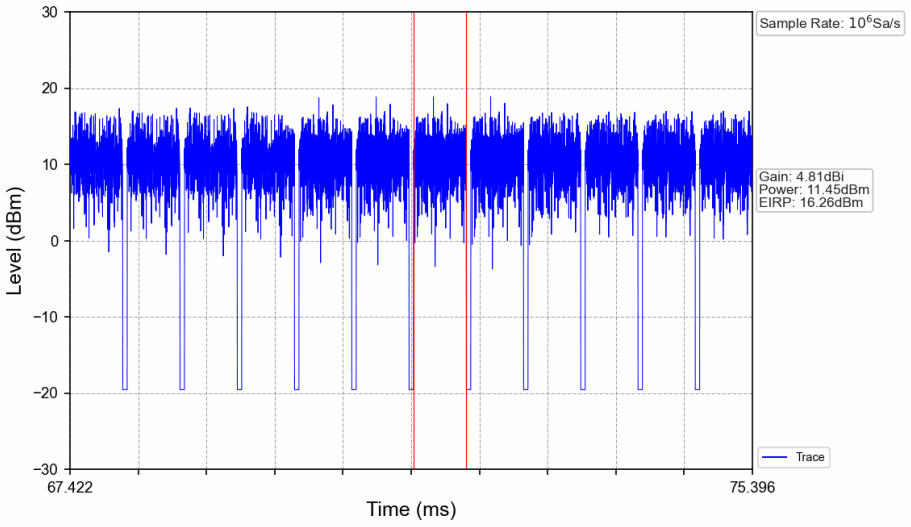

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.617 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.616** | 0.616 | 0.616 | 0.616 | 0.615 | 0.616 |
| Power (dBm) | 10.10 | 10.14 | 10.22 | 10.22 | 10.21 | 10.21 | **10.47** | 10.46 | 10.46 | 10.45 | 10.40 | 10.26 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2442MHz_Ant1 (SISO)_LTNV



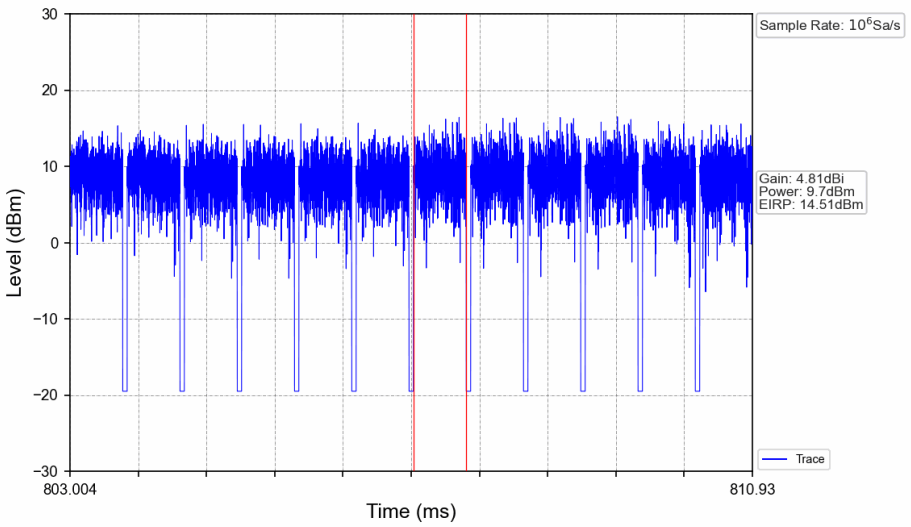

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.615** | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 11.40 | 11.39 | 11.57 | 11.63 | 11.63 | 11.62 | **11.67** | 11.44 | 11.45 | 11.45 | 11.45 | 11.44 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11g_2472MHz_Ant1 (SISO)_LTNV



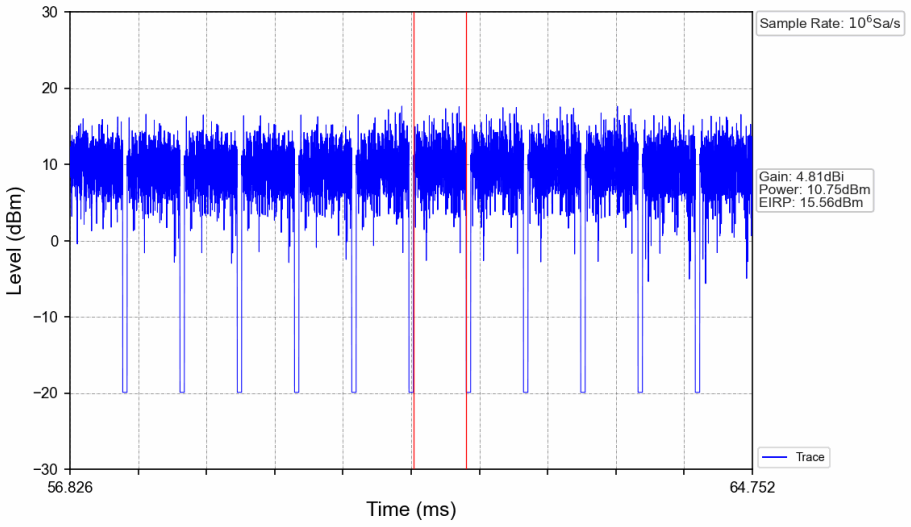

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | 0.616 | **0.616** | 0.616 | 0.615 | 0.616 | 0.616 | 0.616 |
| Power (dBm) | 11.24 | 11.22 | 11.21 | 11.20 | 11.44 | 11.45 | **11.45** | 11.45 | 11.26 | 11.23 | 11.24 | 11.23 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2412MHz_Ant1 (SISO)_LTNV



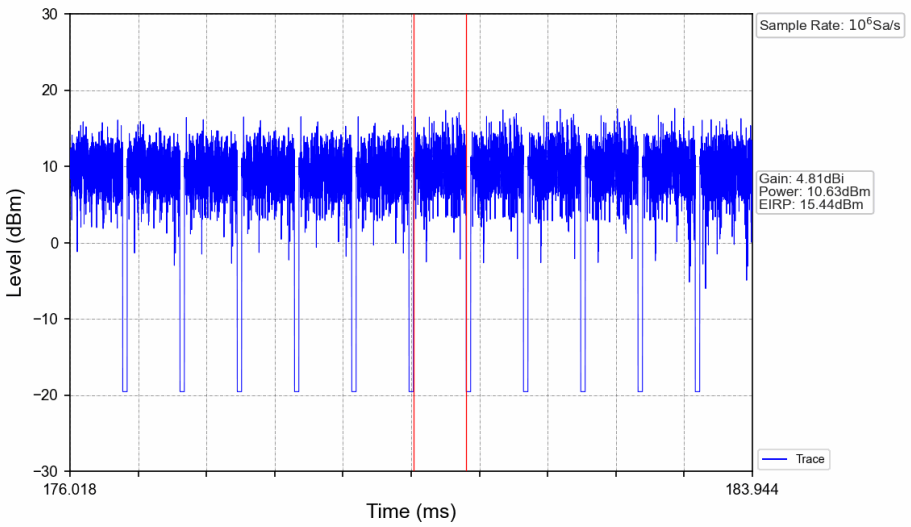

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 9.35 | 9.32 | 9.13 | 9.14 | 9.14 | 9.14 | **9.70** | 9.69 | 9.69 | 9.69 | 9.53 | 9.32 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2442MHz_Ant1 (SISO)_LTNV



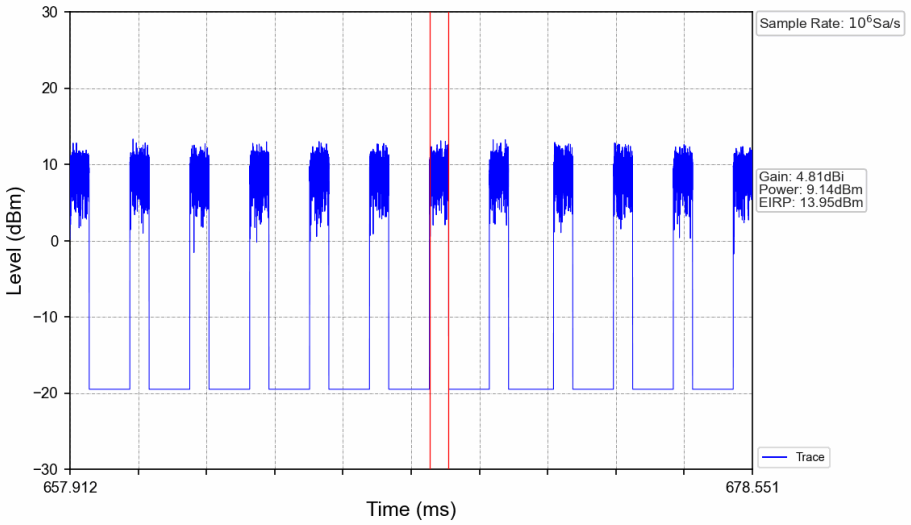

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | 0.612 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.41 | 10.19 | 10.19 | 10.19 | 10.20 | 10.49 | **10.75** | 10.75 | 10.75 | 10.74 | 10.38 | 10.37 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT20)_2472MHz_Ant1 (SISO)_LTNV



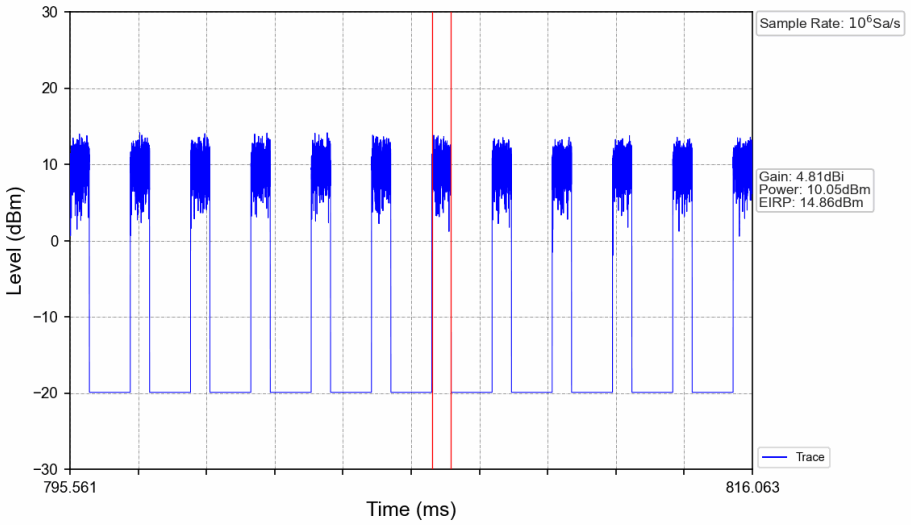

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.612 | 0.612 | 0.613 | 0.613 | 0.613 | 0.613 | **0.612** | 0.612 | 0.612 | 0.612 | 0.612 | 0.612 |
| Power (dBm) | 10.25 | 10.20 | 10.04 | 10.05 | 10.05 | 10.04 | **10.63** | 10.60 | 10.60 | 10.59 | 10.48 | 10.23 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2422MHz_Ant1 (SISO)_LTNV



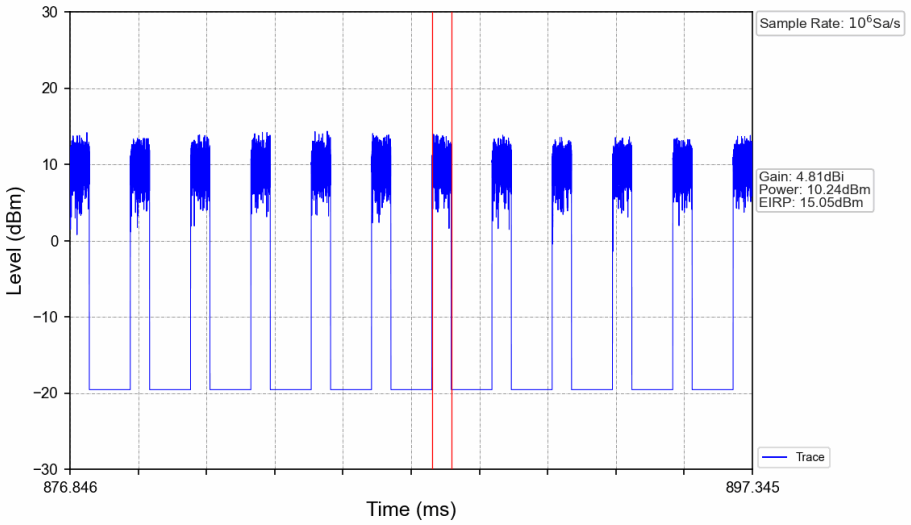

| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.581 | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 | **0.580** | 0.580 | 0.581 | 0.581 | 0.580 | 0.580 |
| Power (dBm) | 8.77 | 8.86 | 8.94 | 9.01 | 9.02 | 9.01 | **9.14** | 9.04 | 9.04 | 9.05 | 9.02 | 8.96 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2442MHz_Ant1 (SISO)_LTNV




| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.580 | 0.579 | 0.580 | 0.580 | 0.580 | 0.581 | **0.580** | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 |
| Power (dBm) | 9.98 | 9.99 | 9.99 | 9.98 | 9.97 | 10.00 | **10.05** | 9.99 | 9.90 | 9.89 | 9.92 | 9.92 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

802.11n(HT40)_2462MHz_Ant1 (SISO)_LTNV




| Burst No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (ms) | 0.580 | 0.579 | 0.580 | 0.580 | 0.580 | 0.581 | **0.580** | 0.580 | 0.580 | 0.580 | 0.580 | 0.580 |
| Power (dBm) | 10.14 | 10.06 | 10.14 | 10.21 | 10.18 | 10.17 | **10.24** | 10.17 | 10.08 | 10.08 | 10.11 | 10.16 |
| Remark | / | / | / | / | / | / | **Max** | / | / | / | / | / |

# 2. Power Spectral Density

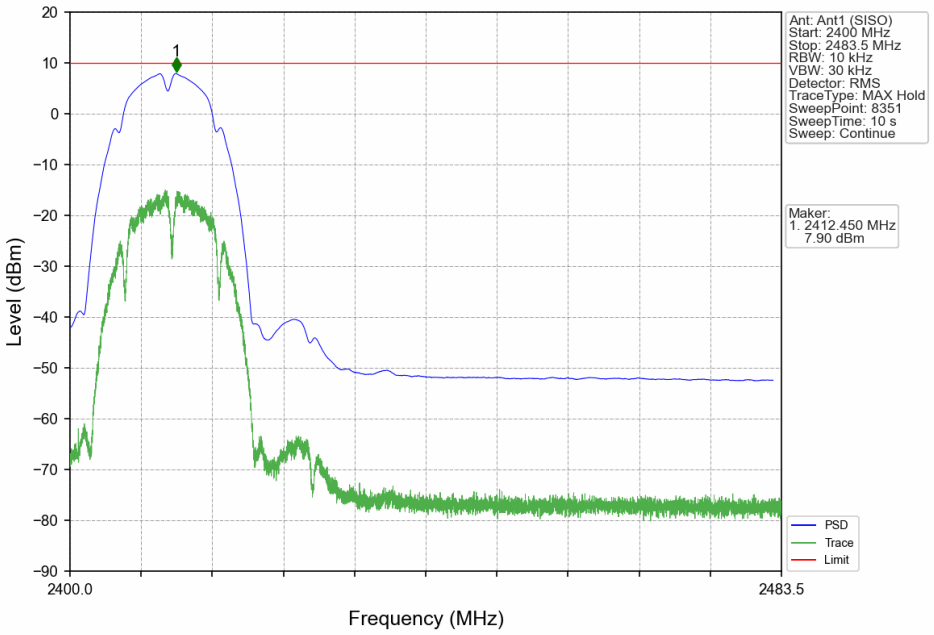
## 2.1 PSD

### 2.1.1 Test Result

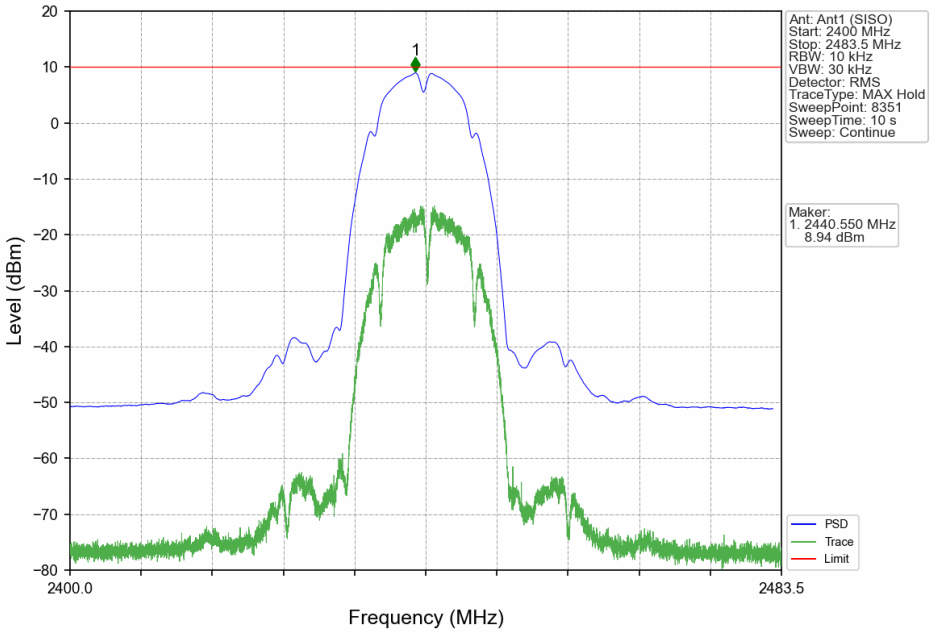
| ENV | Mode | TX Type | Frequency (MHz) | ANT | E.I.R.PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| NTNV | 802.11b | SISO | 2412 | 1 | 7.90 | <=10 | Pass |
| | | | 2442 | 1 | 8.94 | <=10 | Pass |
| | | | 2472 | 1 | 8.86 | <=10 | Pass |
| | 802.11g | SISO | 2412 | 1 | 3.74 | <=10 | Pass |
| | | | 2442 | 1 | 4.92 | <=10 | Pass |
| | | | 2472 | 1 | 4.76 | <=10 | Pass |
| | 802.11n (HT20) | SISO | 2412 | 1 | 2.80 | <=10 | Pass |
| | | | 2442 | 1 | 3.82 | <=10 | Pass |
| | | | 2472 | 1 | 3.71 | <=10 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | 0.23 | <=10 | Pass |
| | | | 2442 | 1 | 0.52 | <=10 | Pass |
| | | | 2462 | 1 | 0.85 | <=10 | Pass |

## 2.1.2 Test Graph

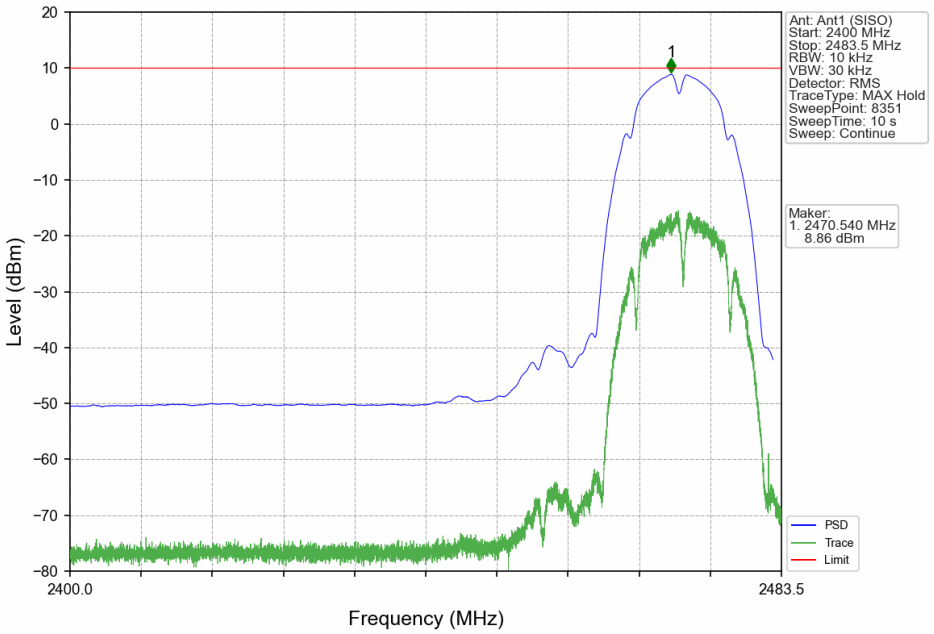
802.11b_2412MHz_Ant1 (SISO)_NTNV



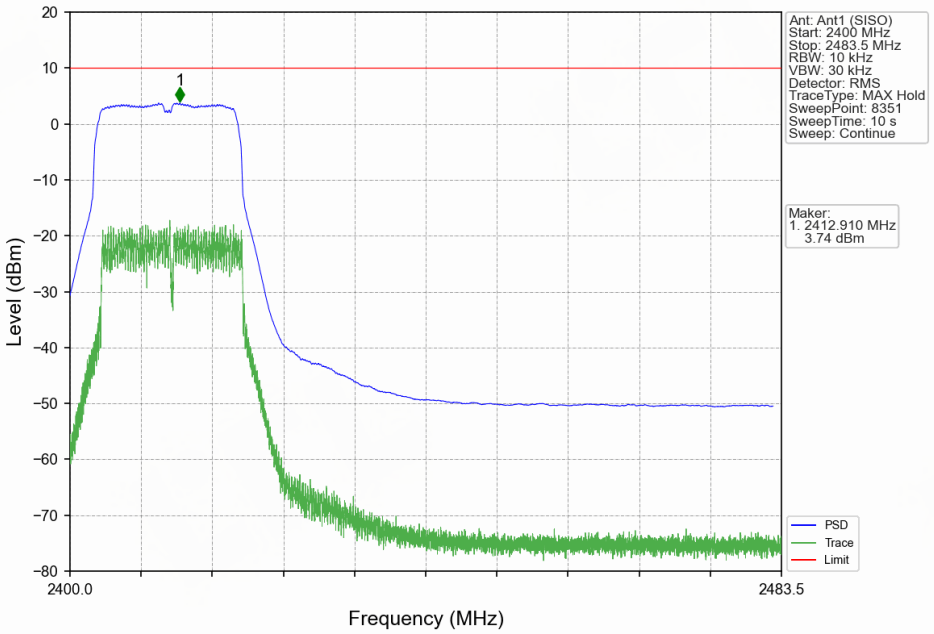

802.11b_2442MHz_Ant1 (SISO)_NTNV



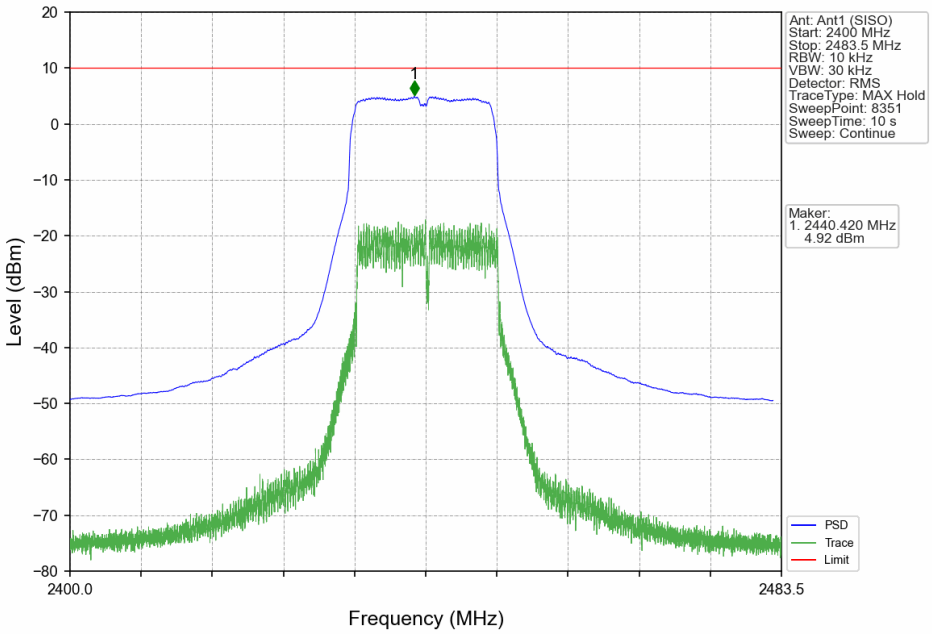
802.11b_2472MHz_Ant1 (SISO)_NTNV



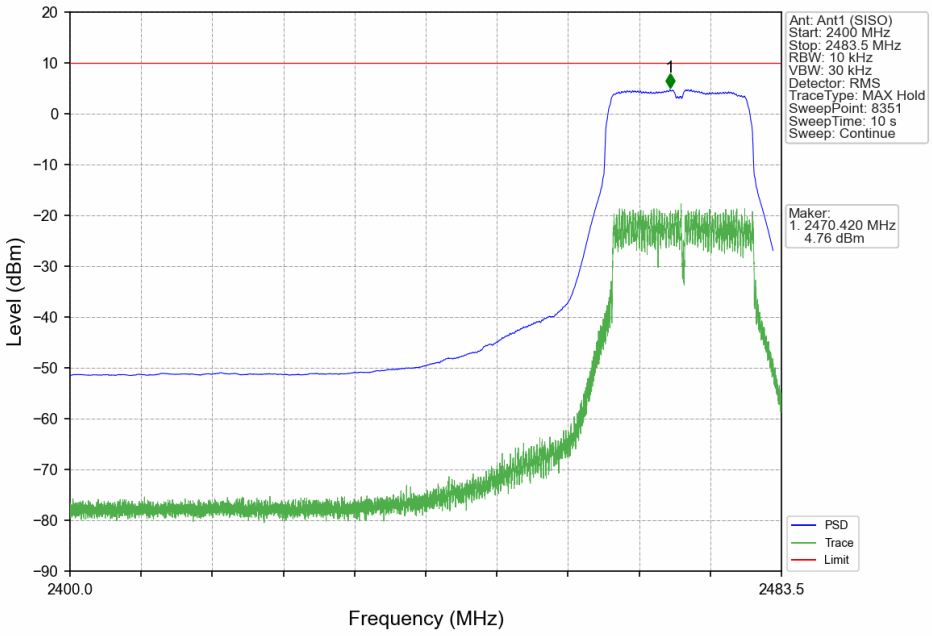

802.11g_2412MHz_Ant1 (SISO)_NTNV



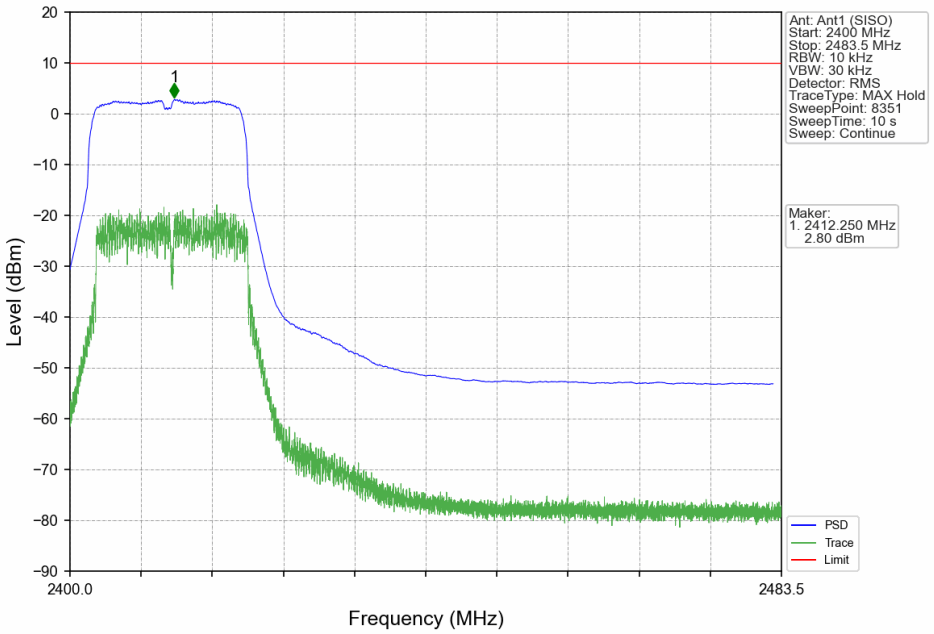
802.11g_2442MHz_Ant1 (SISO)_NTNV



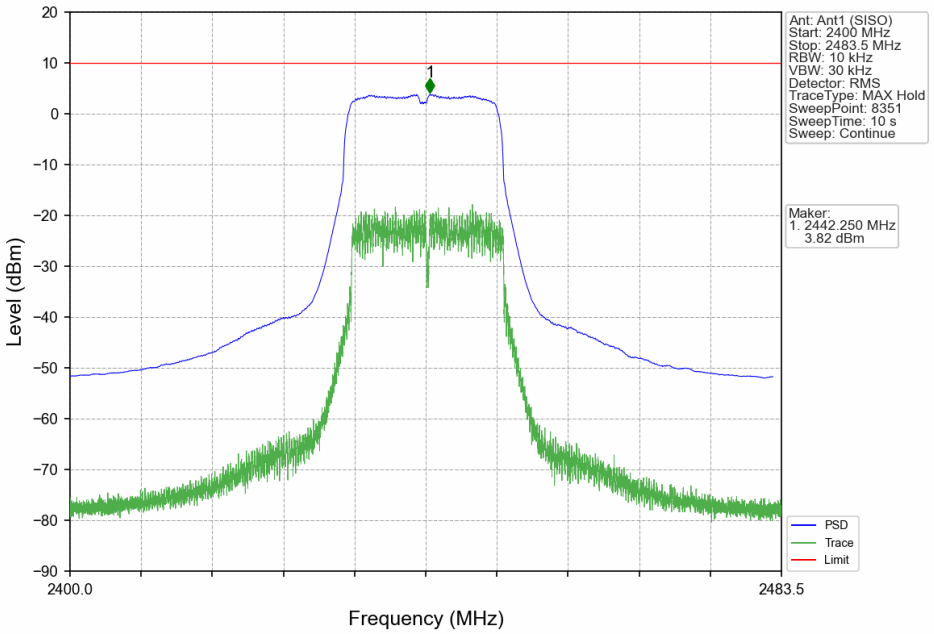

802.11g_2472MHz_Ant1 (SISO)_NTNV



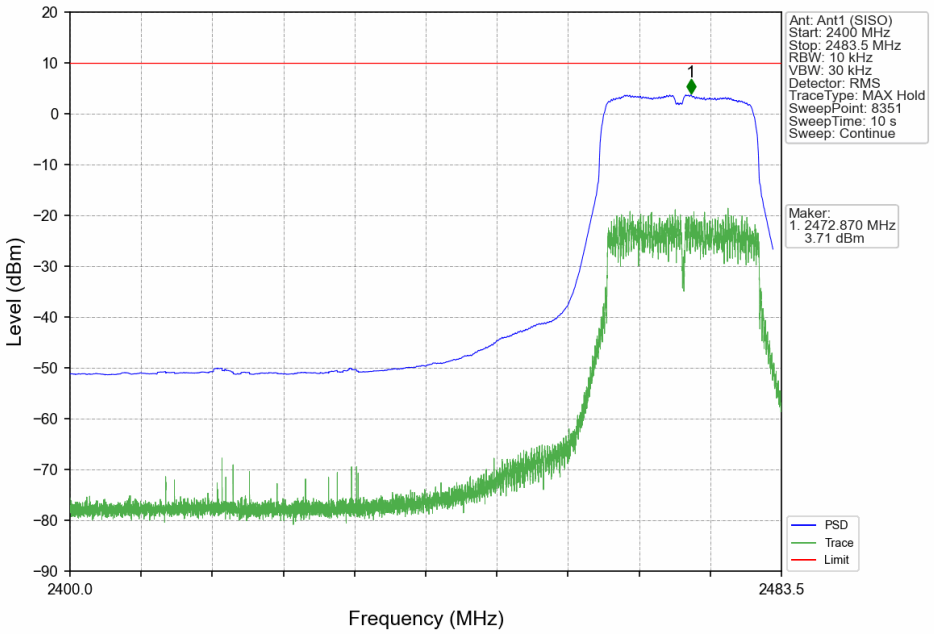
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



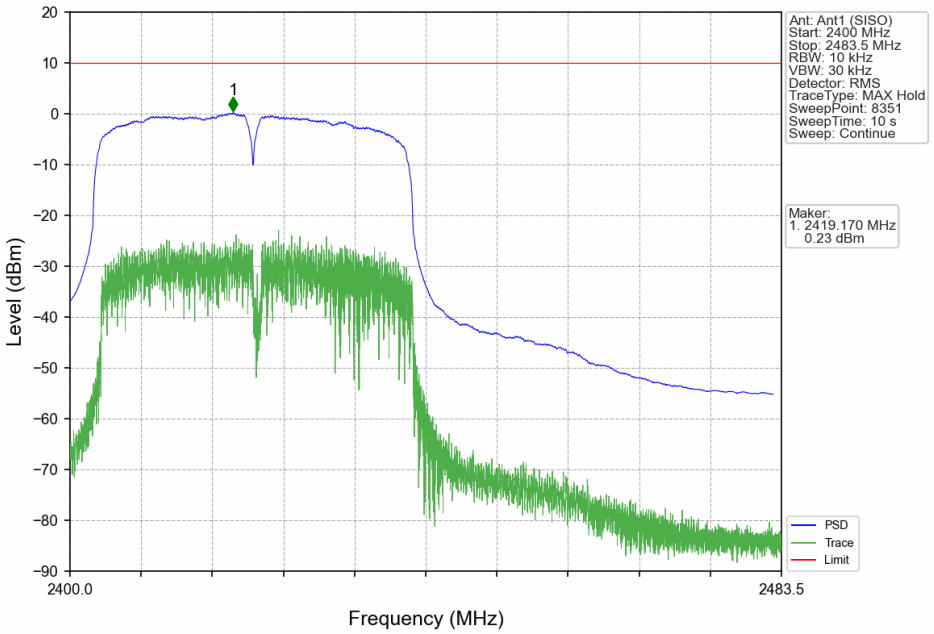

802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



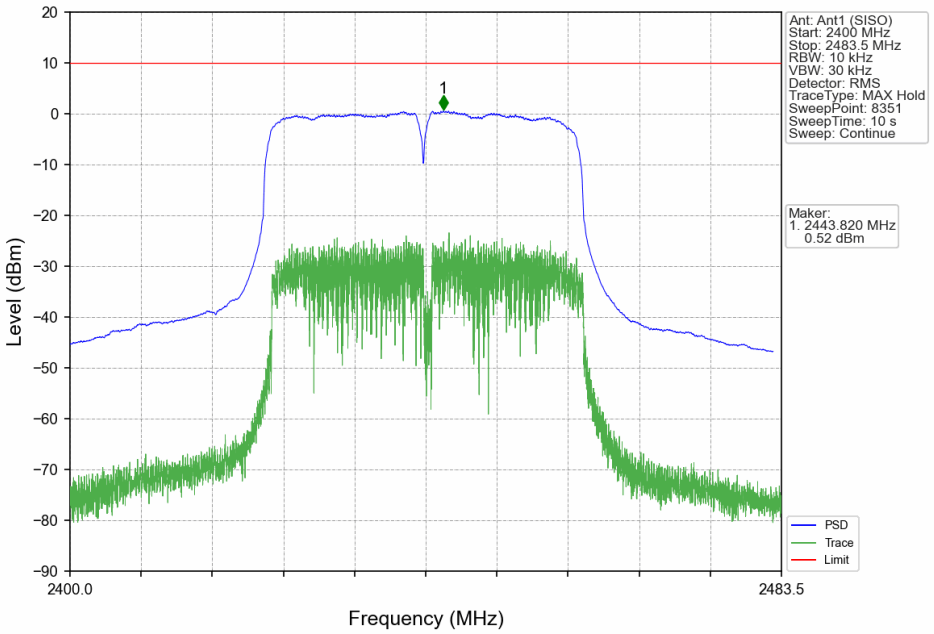
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



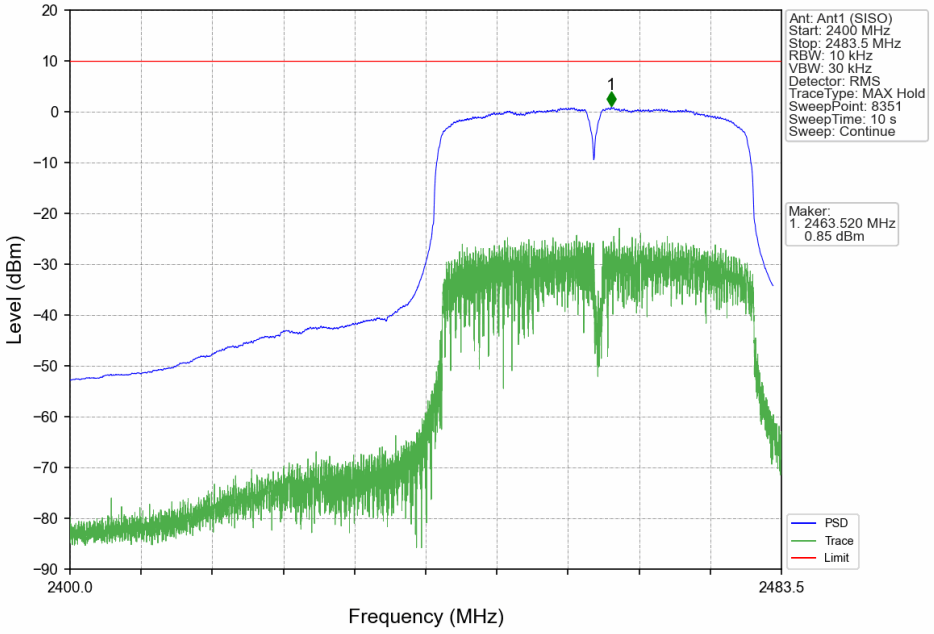

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV




802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



# 3. Adaptivity (Channel Access Mechanism)

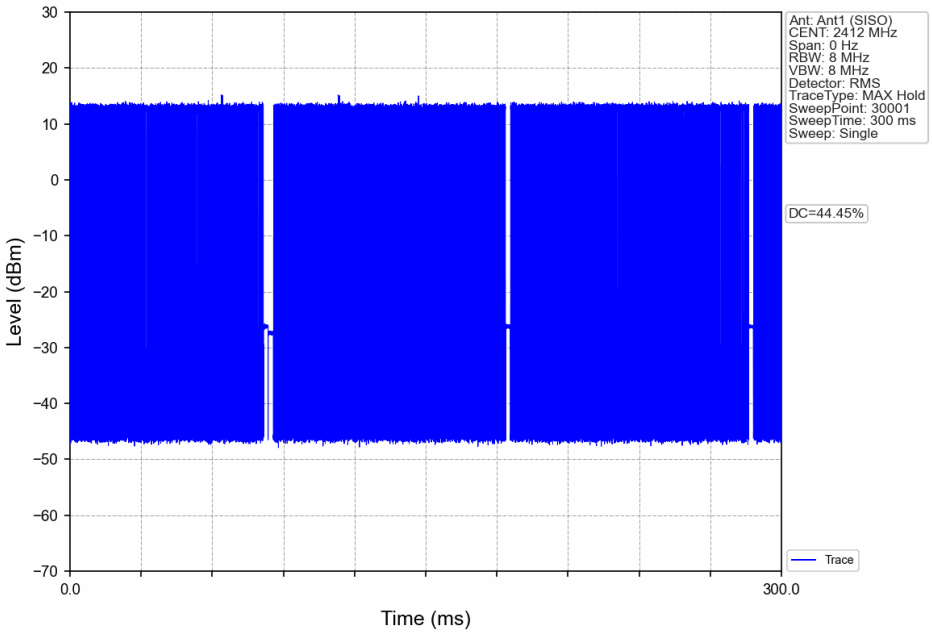
## 3.1 COT

### 3.1.1 Test Result

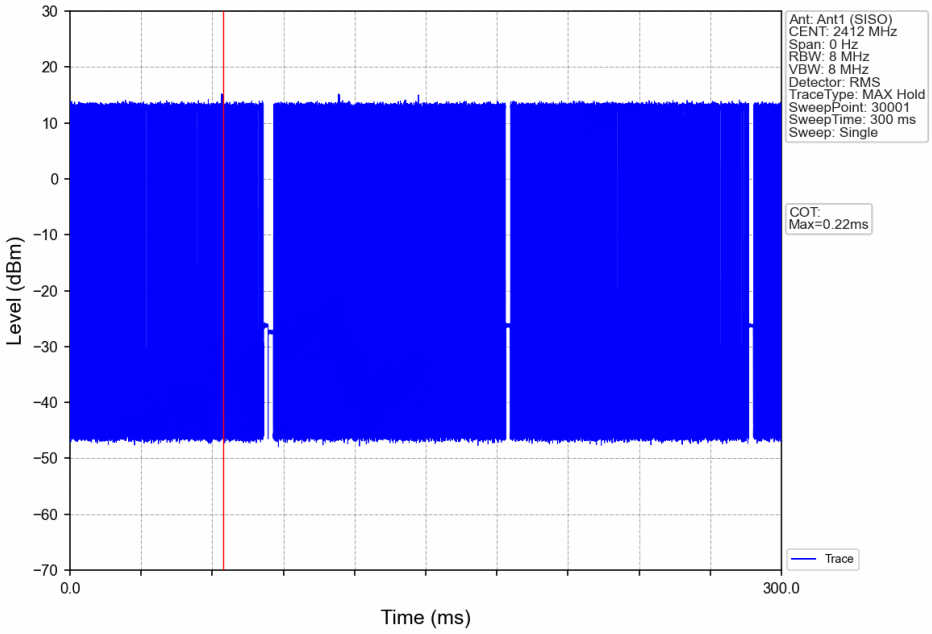
| ENV | Mode | TX Type | Frequency (MHz) | ANT | Min Idle Time (ms) | | Max COT (ms) | | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Result | Limit | Result | Limit | |
| NTNV | 802.11b | SISO | 2412 | 1 | 0.070 | >=0.018 | 0.220 | <=13 | Pass |
| | | | 2472 | 1 | 0.070 | >=0.018 | 0.220 | <=13 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | 0.050 | >=0.018 | 0.200 | <=13 | Pass |
| | | | 2462 | 1 | 0.030 | >=0.018 | 0.310 | <=13 | Pass |

### 3.1.2 Test Graph

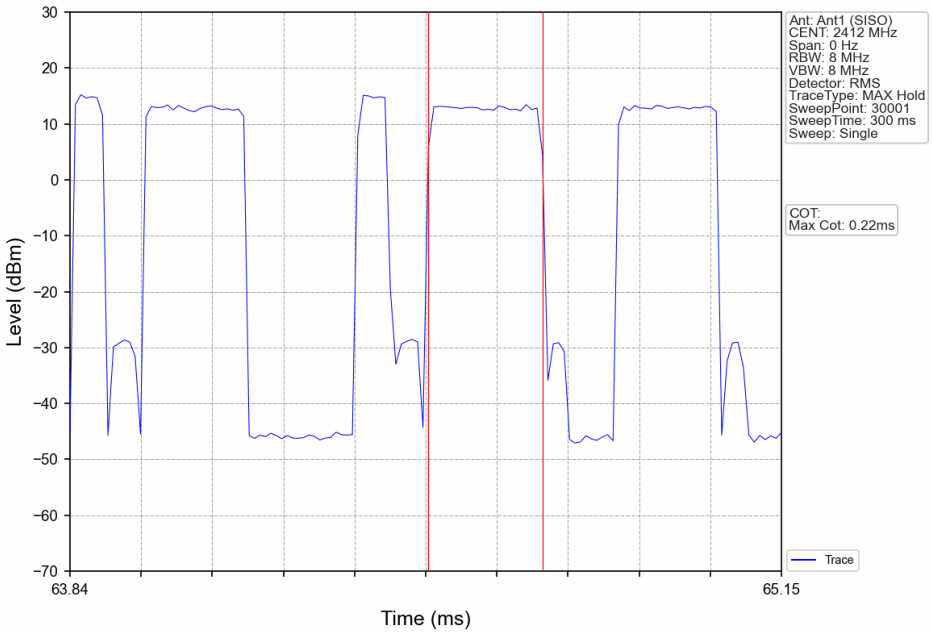
802.11b_2412MHz_Ant1 (SISO)_NTNV



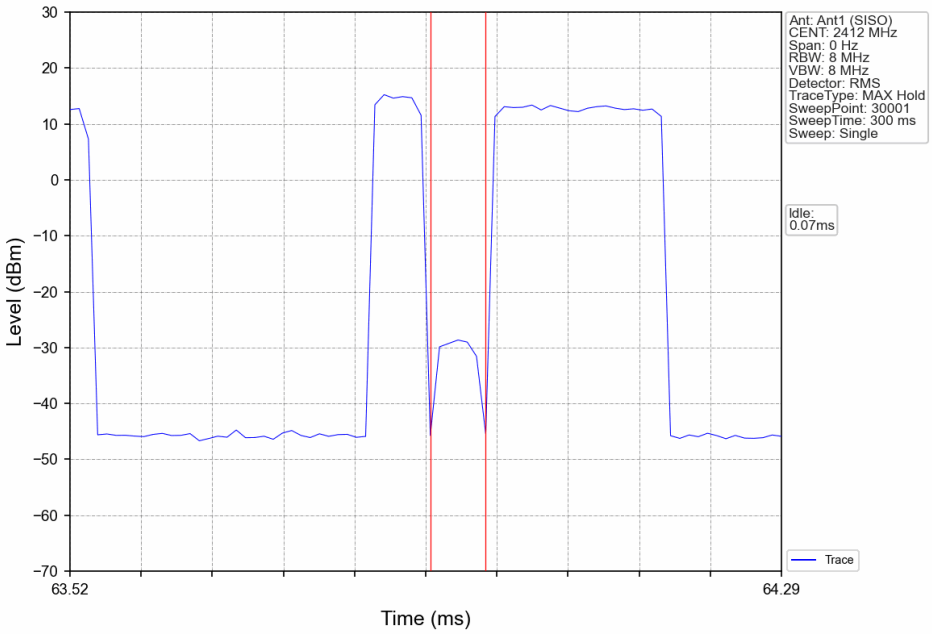

802.11b_2412MHz_Ant1 (SISO)_NTNV



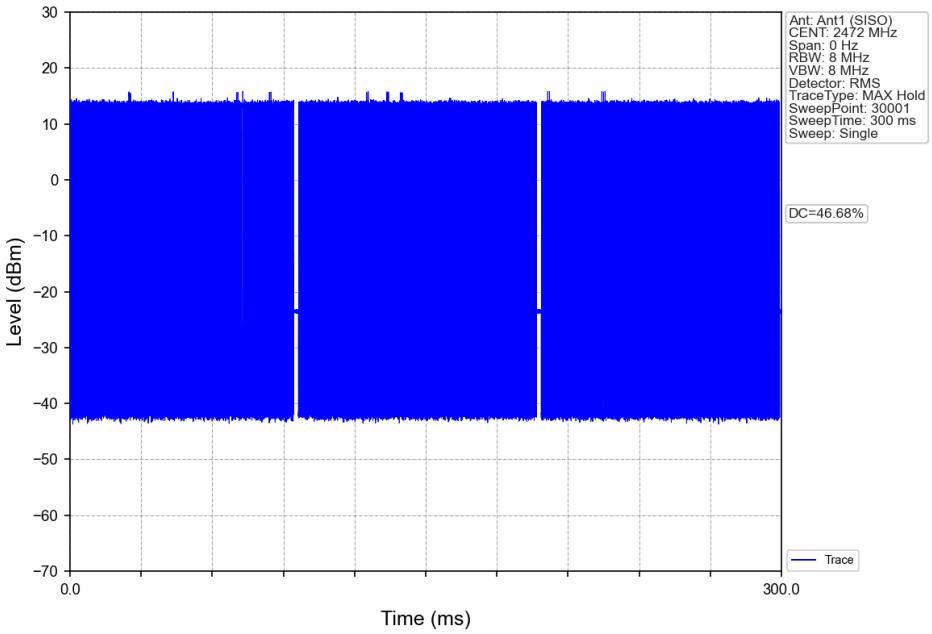
802.11b_2412MHz_Ant1 (SISO)_NTNV



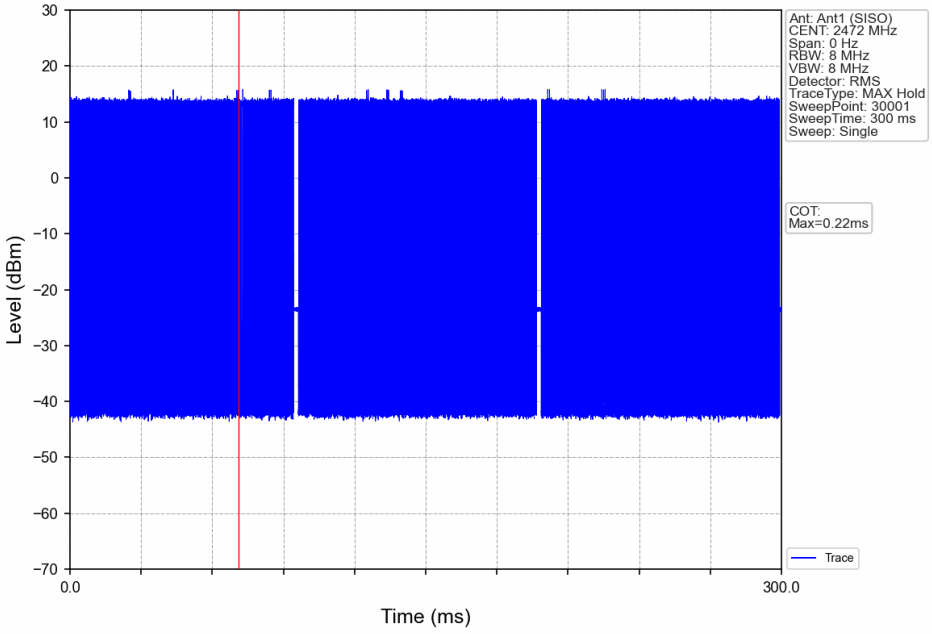

802.11b_2412MHz_Ant1 (SISO)_NTNV



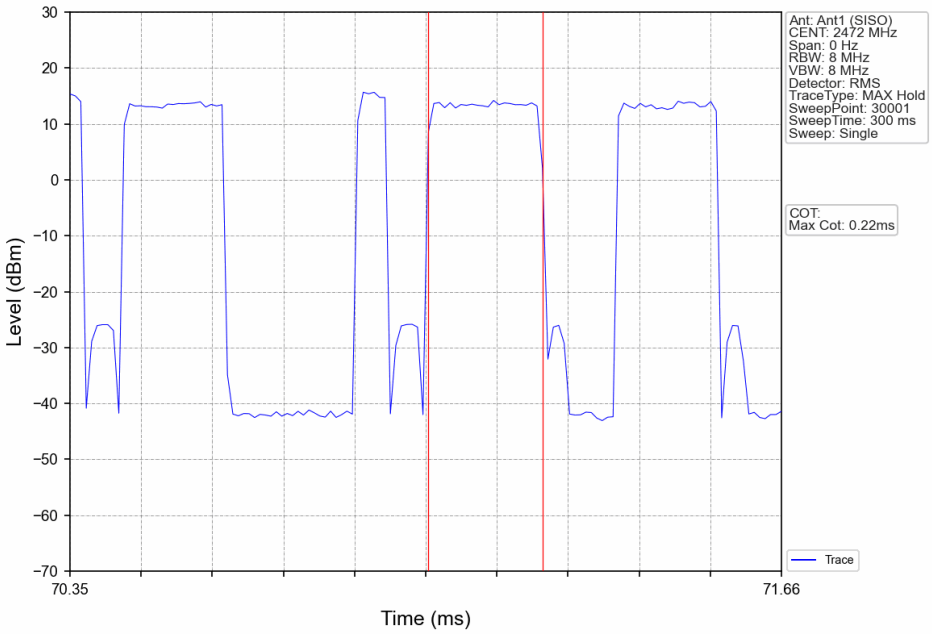
802.11b_2472MHz_Ant1 (SISO)_NTNV



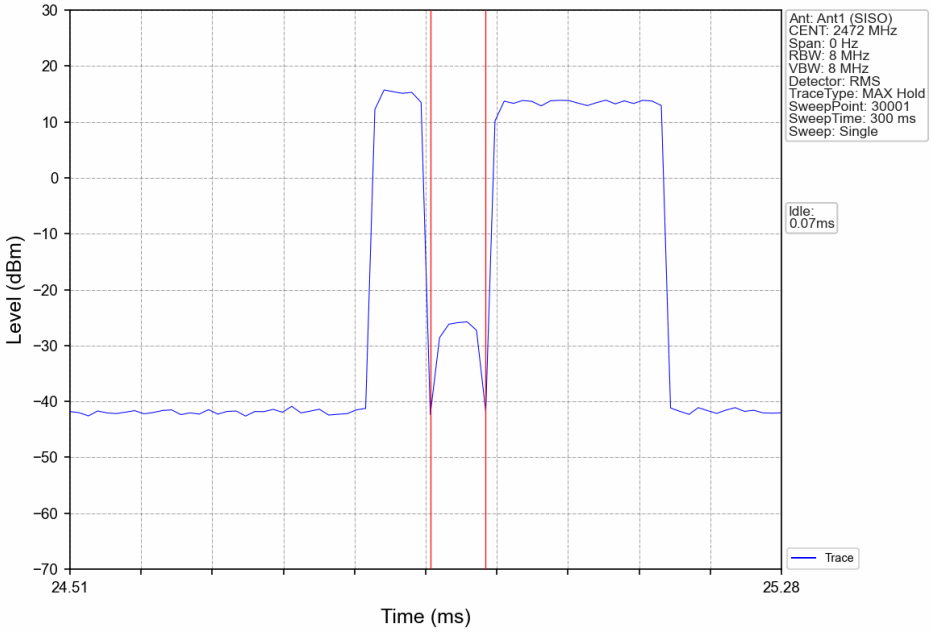

802.11b_2472MHz_Ant1 (SISO)_NTNV



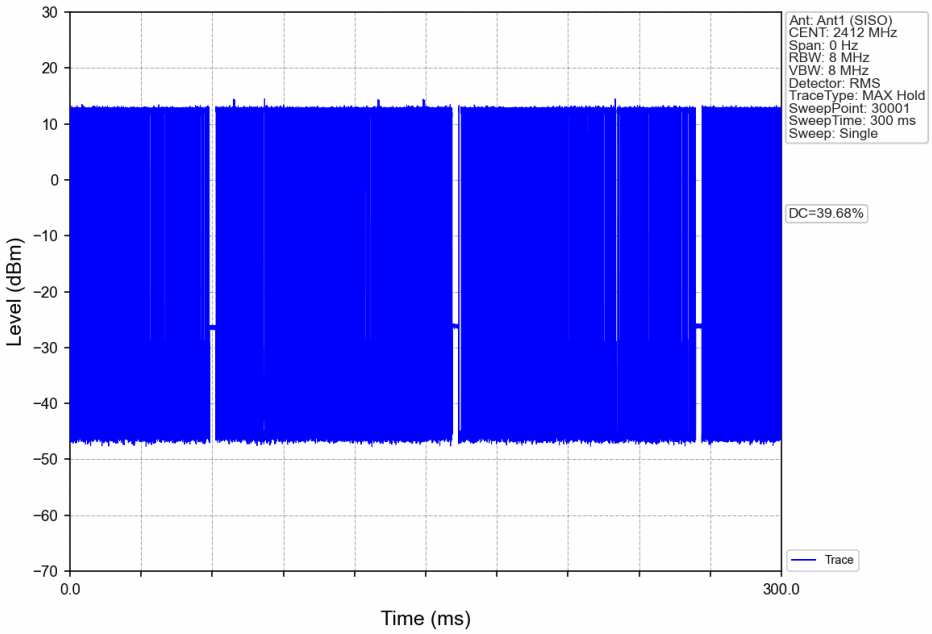
802.11b_2472MHz_Ant1 (SISO)_NTNV



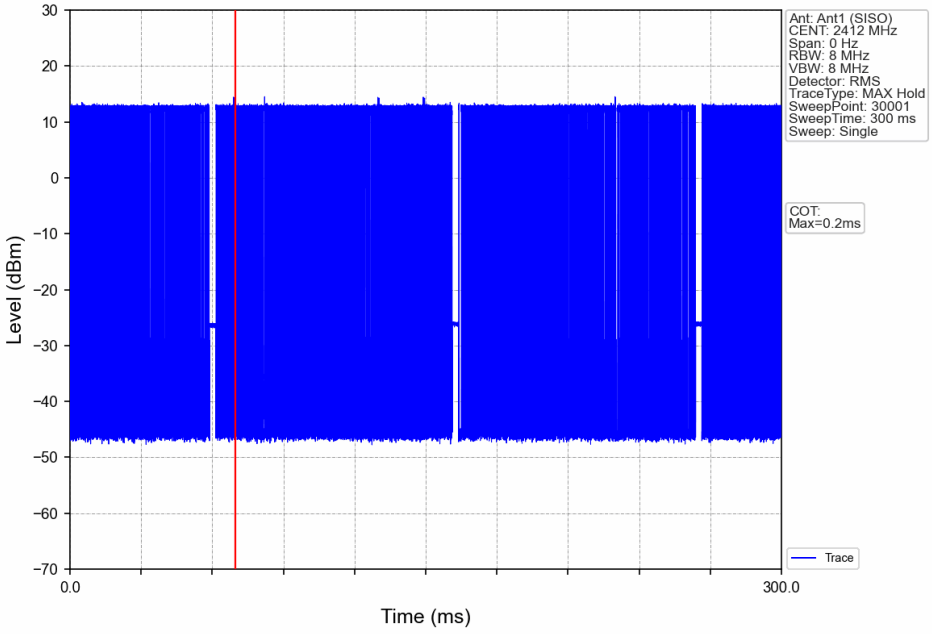

802.11b_2472MHz_Ant1 (SISO)_NTNV



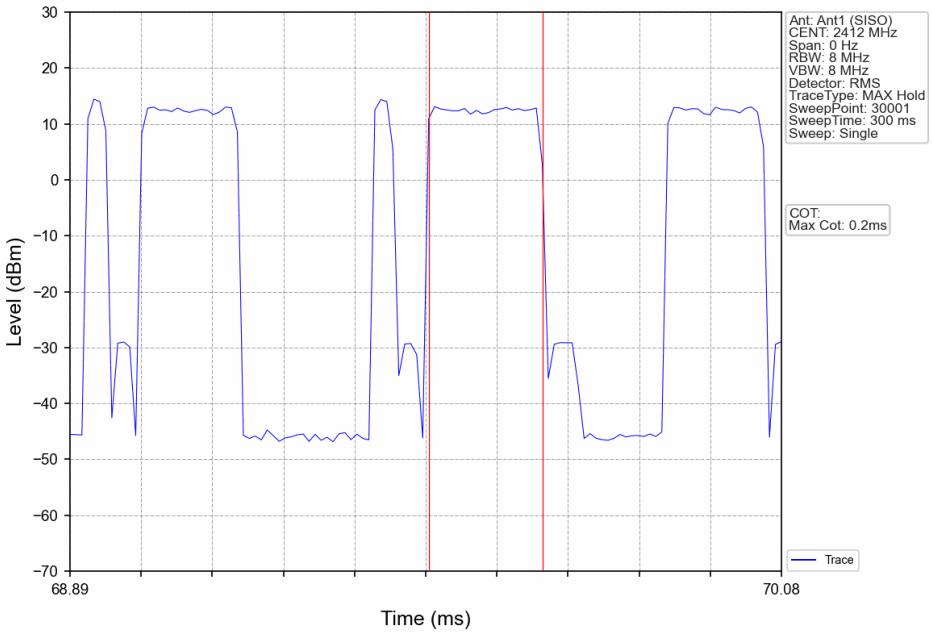
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



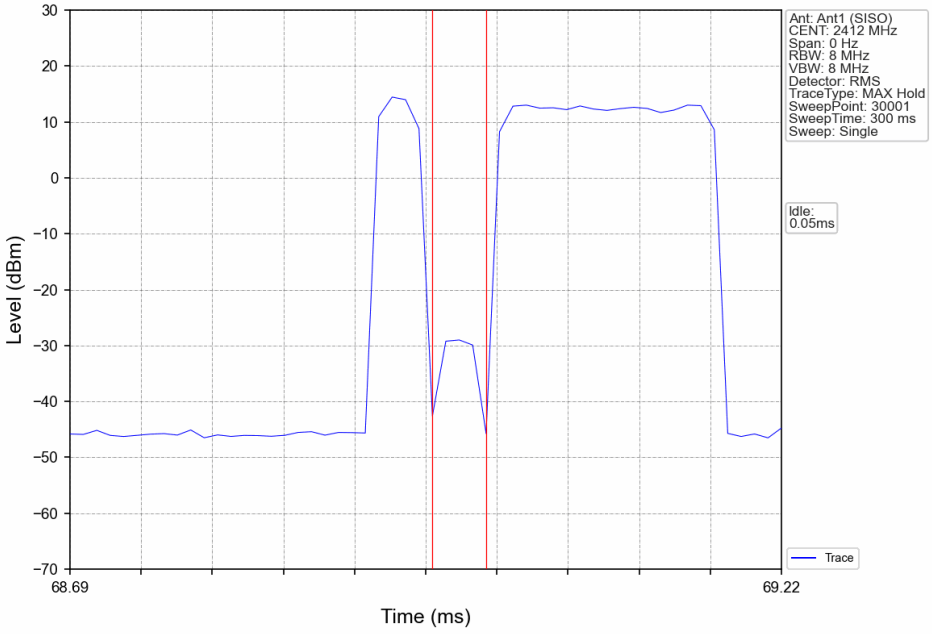

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



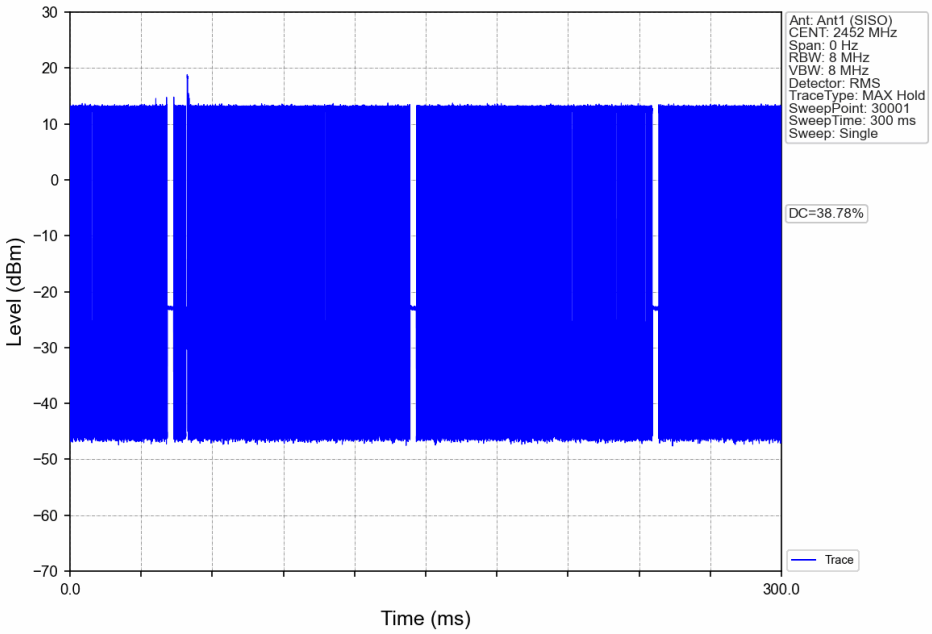
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



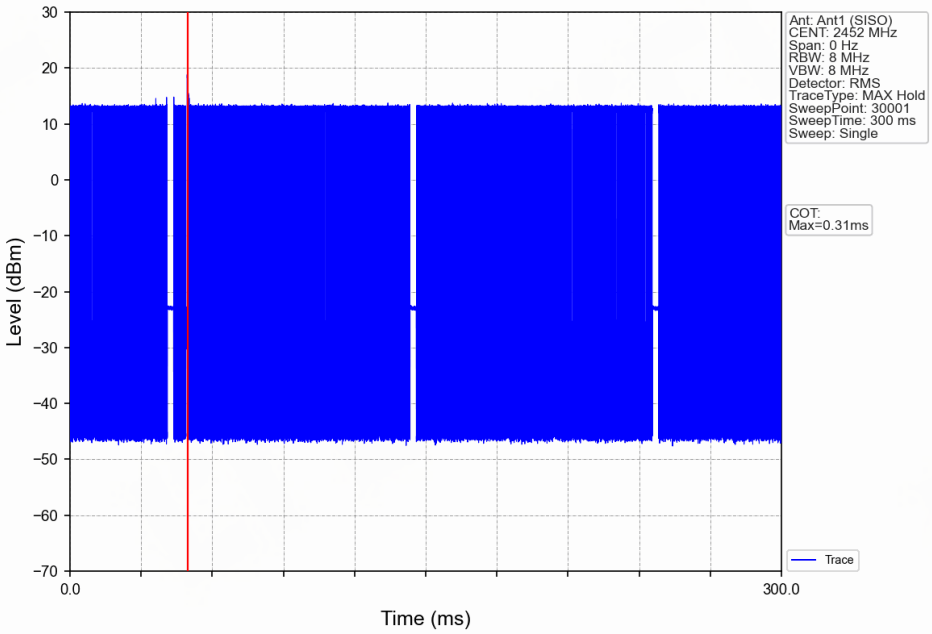

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



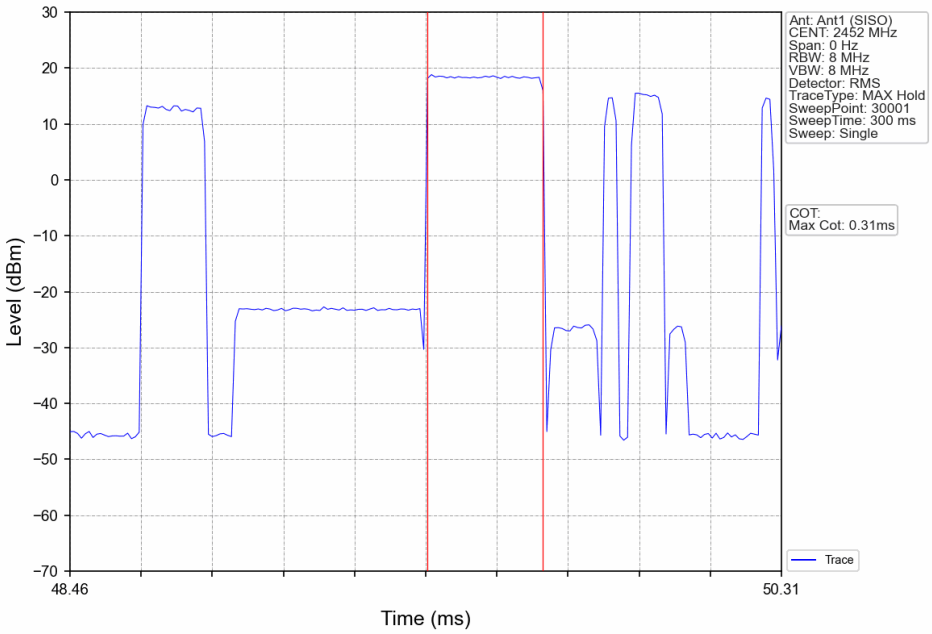
802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



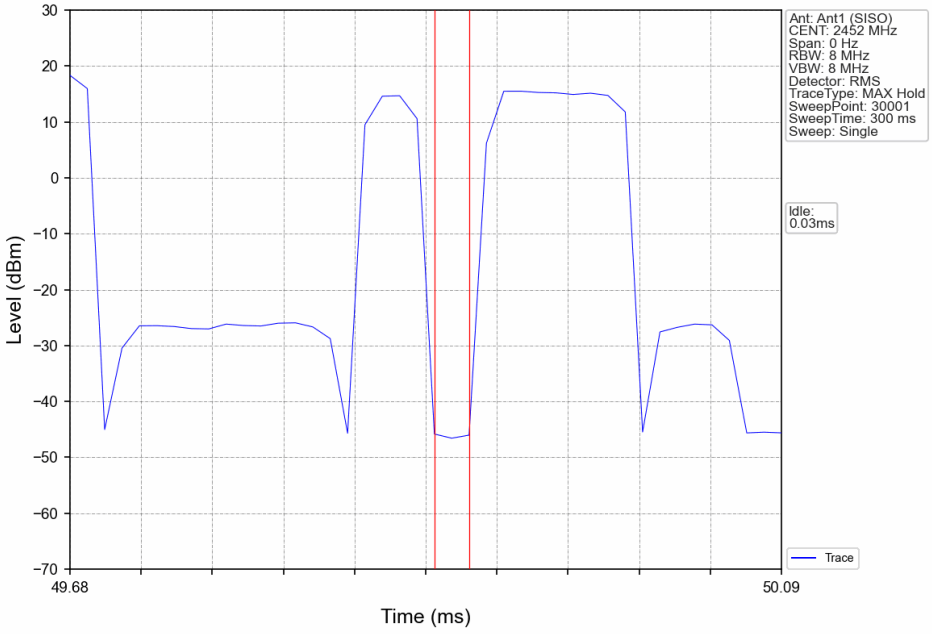

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV




802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



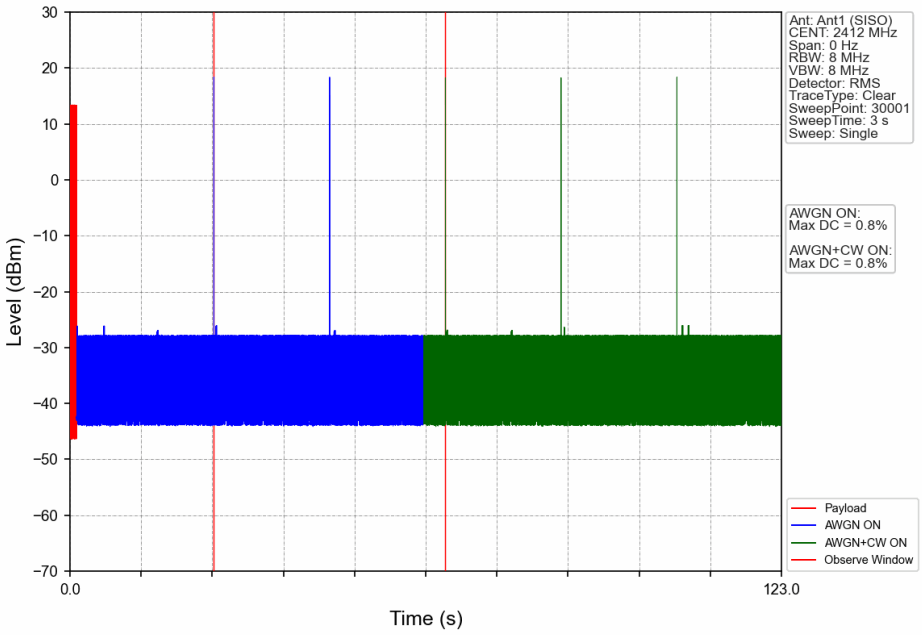
## 3.2 Adaptivity

### 3.2.1 Test Result

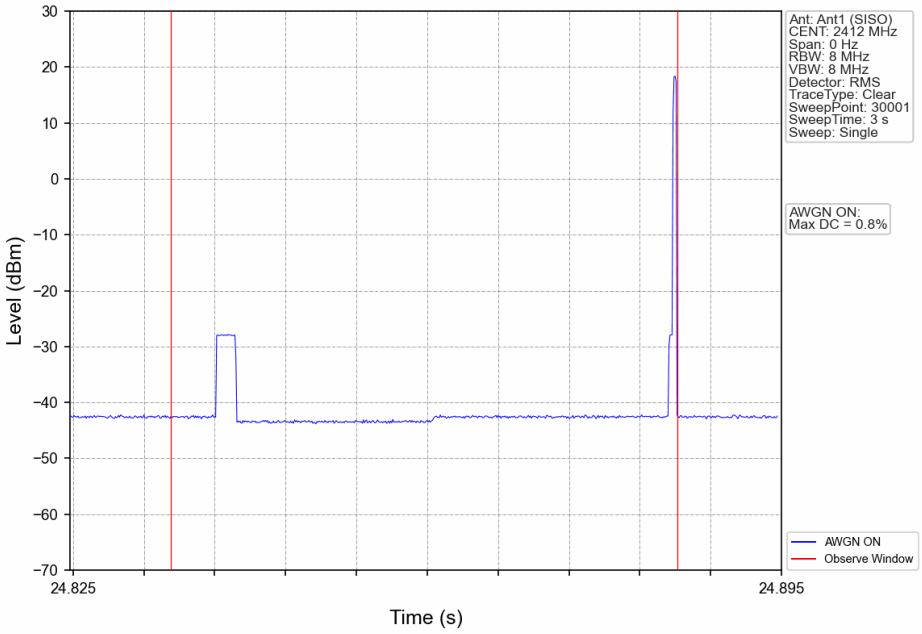
| ENV | Mode | TX Type | Frequency (MHz) | ANT | Interference Signal | | | Max. Short Control Signal | | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Type | Add Time (s) | Level (dBm/MHz) | Duty Cycle (%) | Limit (%) | |
| NTNV | 802.11b | SISO | 2412 | 1 | AWGN | 1.15 | -61.53 | 0.80 | <=10 | Pass |
| | | | | | AWGN+CW | 61.15 | -61.53 | 0.80 | <=10 | Pass |
| | | | 2472 | 1 | AWGN | 1.15 | -62.48 | 0.80 | <=10 | Pass |
| | | | | | AWGN+CW | 61.15 | -62.48 | 0.80 | <=10 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 1 | AWGN | 1.15 | -59.11 | 0.80 | <=10 | Pass |
| | | | | | AWGN+CW | 61.15 | -59.11 | 1.60 | <=10 | Pass |
| | | | 2462 | 1 | AWGN | 1.15 | -60.25 | 0.80 | <=10 | Pass |
| | | | | | AWGN+CW | 61.15 | -60.25 | 1.80 | <=10 | Pass |

### 3.2.2 Test Graph

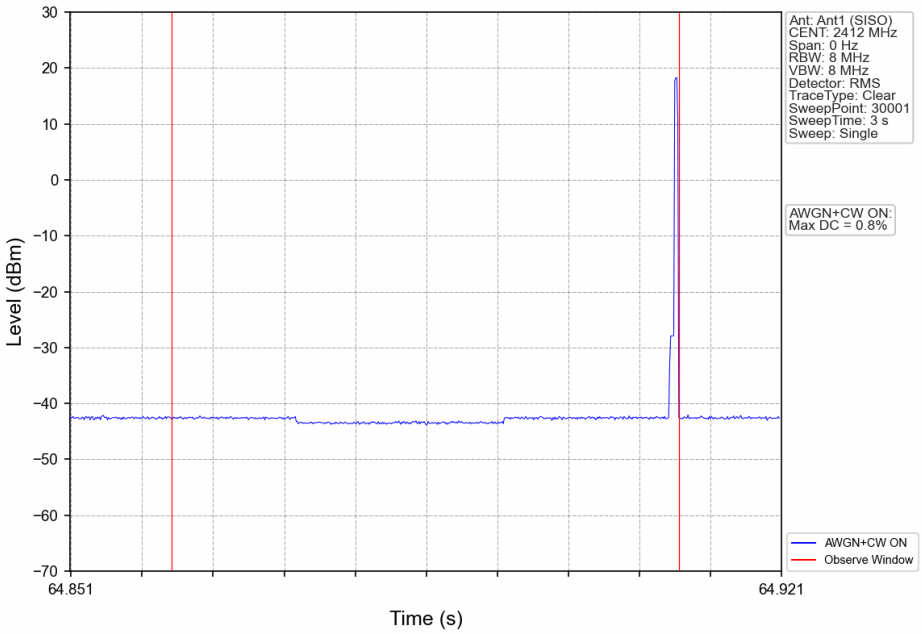
802.11b_2412MHz_Ant1 (SISO)_NTNV



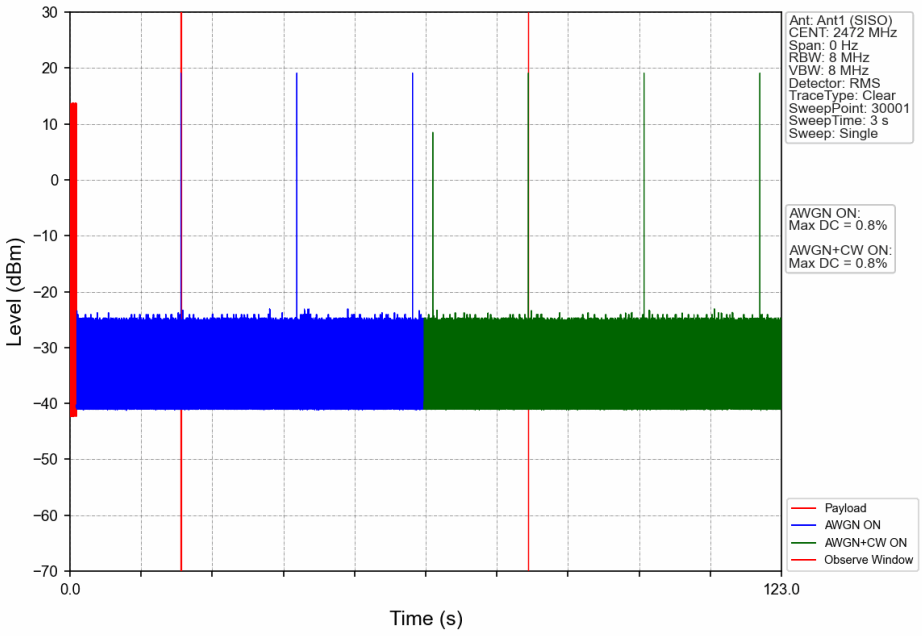

802.11b_2412MHz_Ant1 (SISO)_NTNV



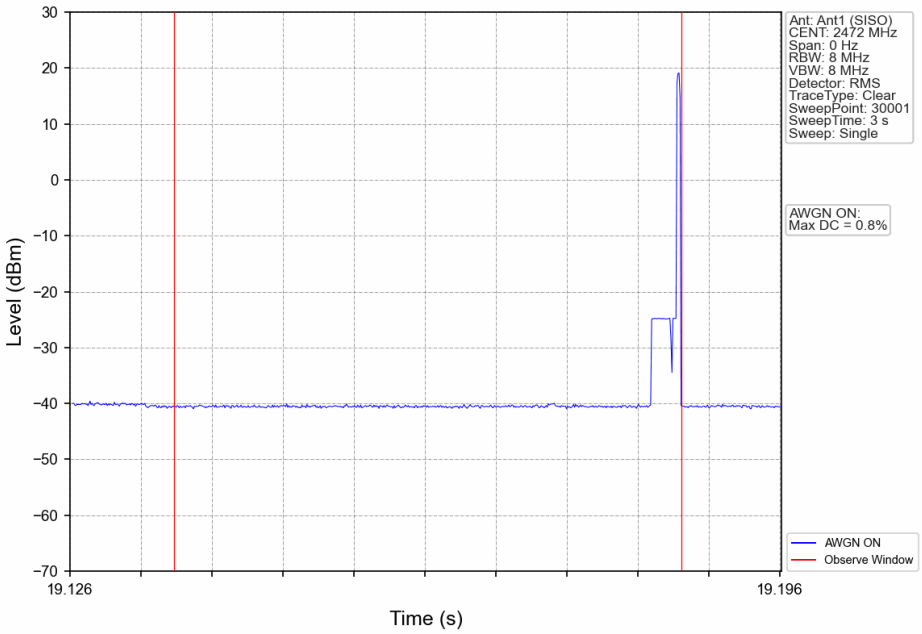
802.11b_2412MHz_Ant1 (SISO)_NTNV



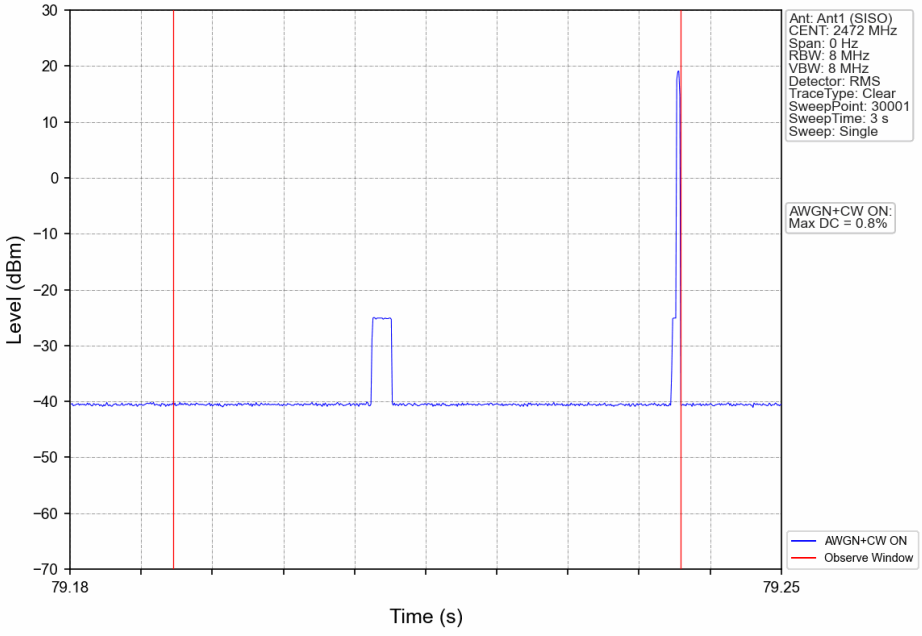

802.11b_2472MHz_Ant1 (SISO)_NTNV



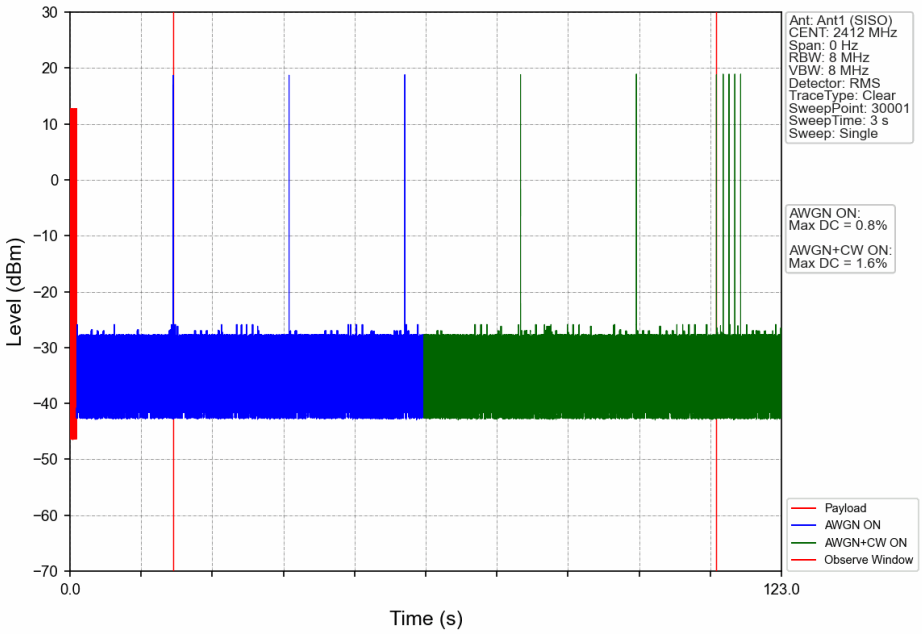
802.11b_2472MHz_Ant1 (SISO)_NTNV



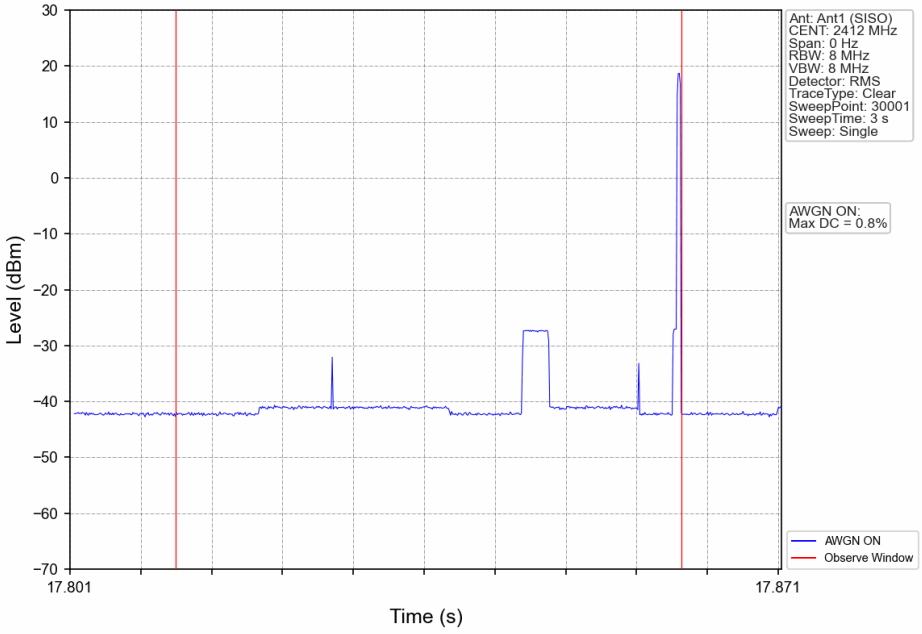

802.11b_2472MHz_Ant1 (SISO)_NTNV



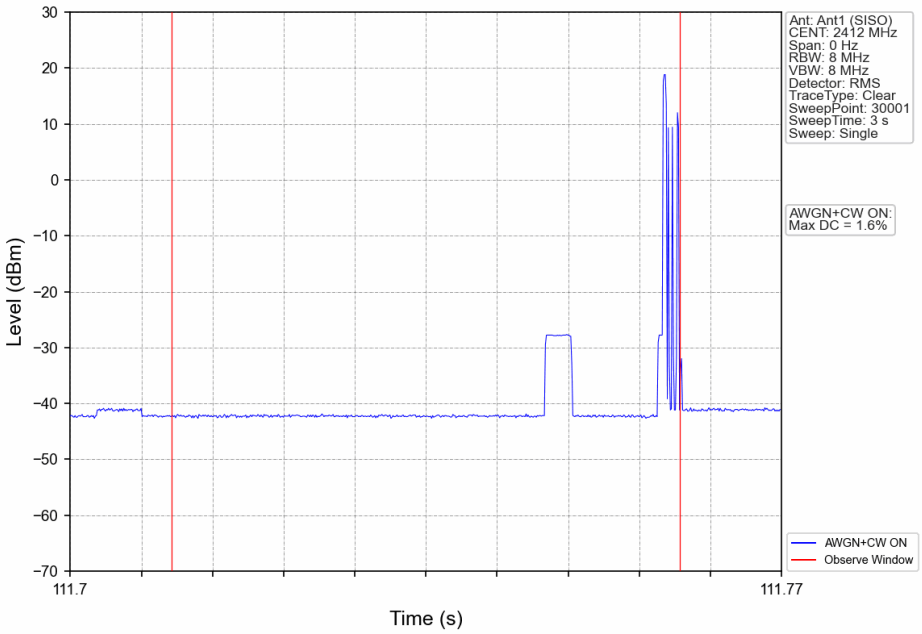
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



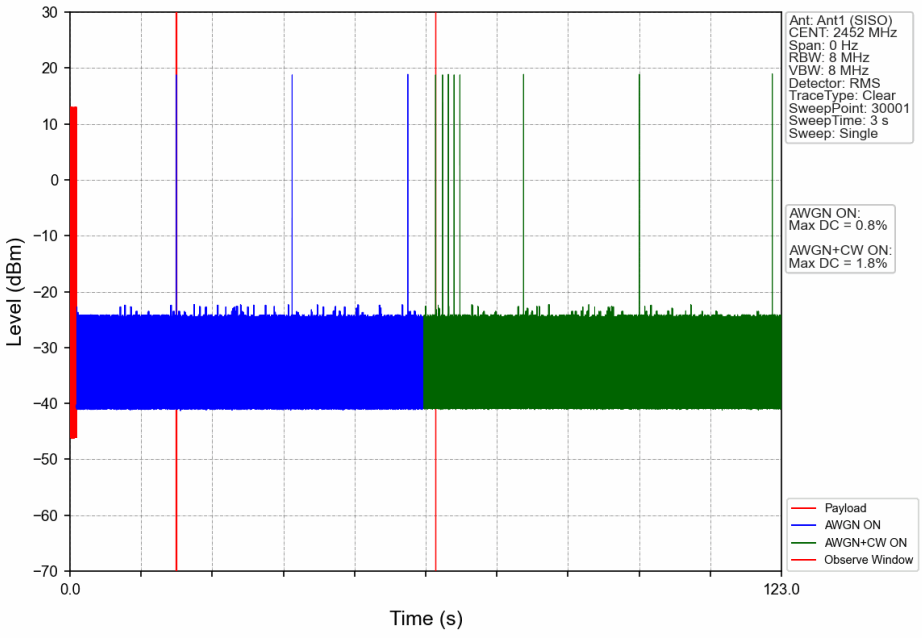

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



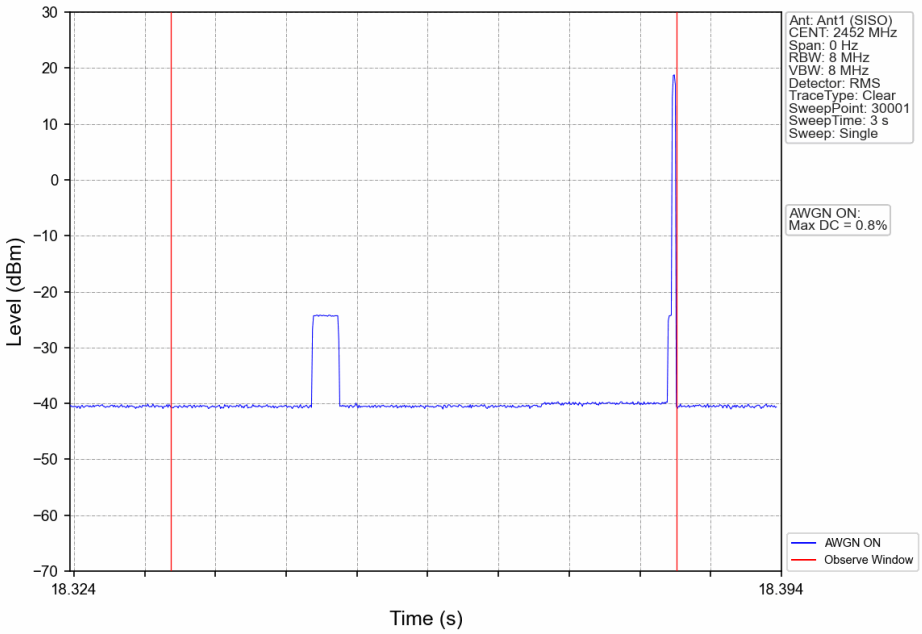
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



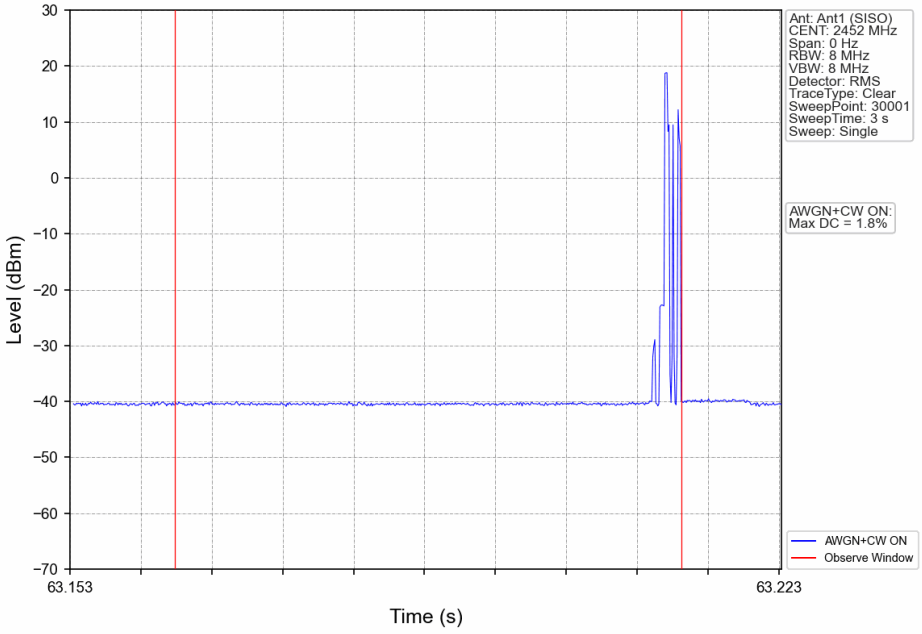

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV




802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



# 4. Occupied Channel Bandwidth

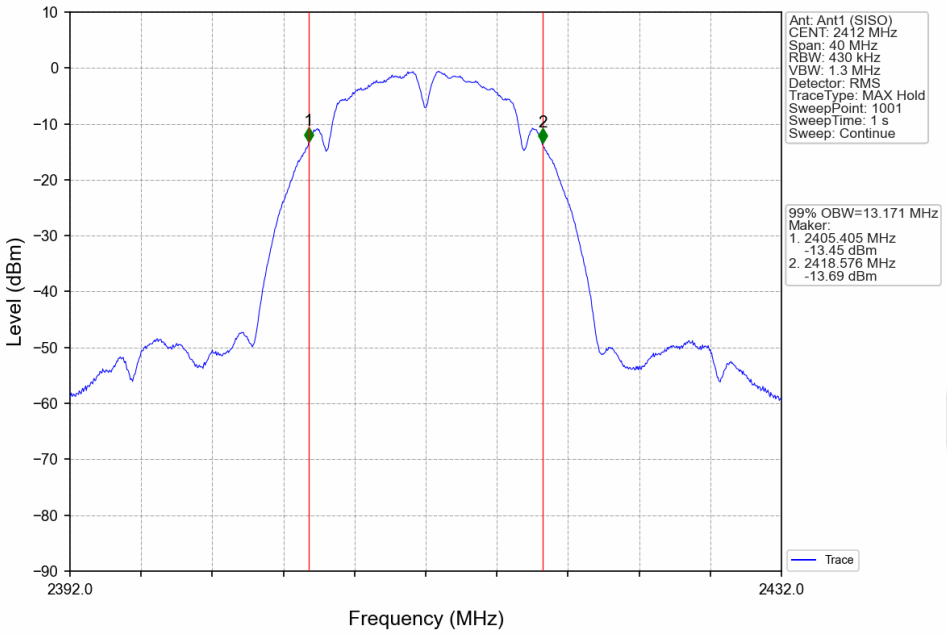
## 4.1 OBW_Ant1

### 4.1.1 Test Result

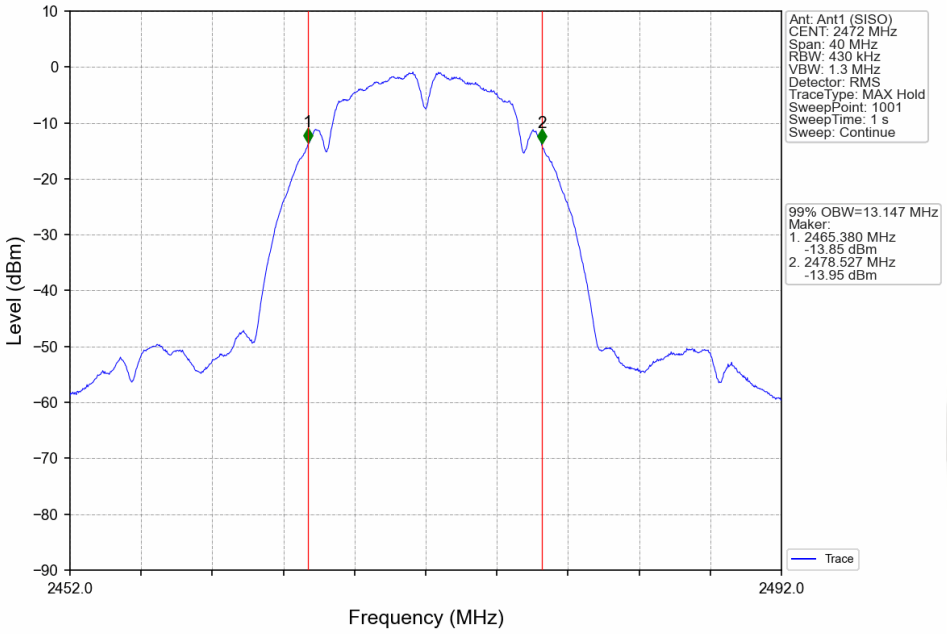
| Ant1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ENV | Mode | TX Type | Frequency (MHz) | OBW (MHz) | Frequency Range (MHz) | | | Verdict |
| | | | | Result | FL | FH | Limit | |
| NTNV | 802.11b | SISO | 2412 | 13.171 | 2405.405 | / | >=2400 | Pass |
| | | | 2472 | 13.147 | / | 2478.527 | <=2483.5 | Pass |
| | 802.11g | SISO | 2412 | 16.580 | 2403.694 | / | >=2400 | Pass |
| | | | 2472 | 16.581 | / | 2480.263 | <=2483.5 | Pass |
| | 802.11n (HT20) | SISO | 2412 | 17.768 | 2403.096 | / | >=2400 | Pass |
| | | | 2472 | 17.756 | / | 2480.842 | <=2483.5 | Pass |
| | 802.11n (HT40) | SISO | 2422 | 35.637 | 2404.104 | / | >=2400 | Pass |
| | | | 2462 | 35.654 | / | 2479.760 | <=2483.5 | Pass |

## 4.1.2 Test Graph

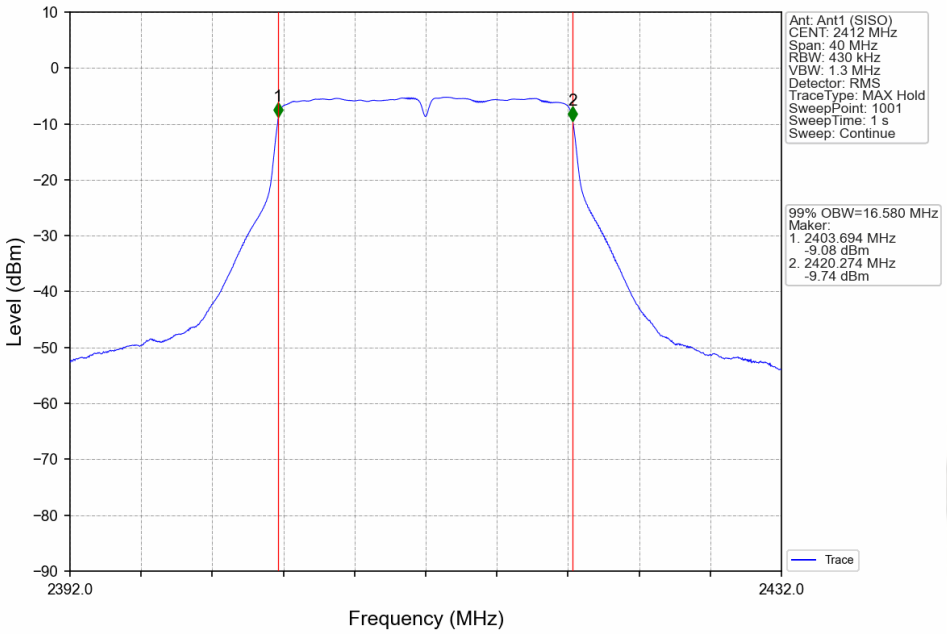
802.11b_2412MHz_Ant1 (SISO)_NTNV



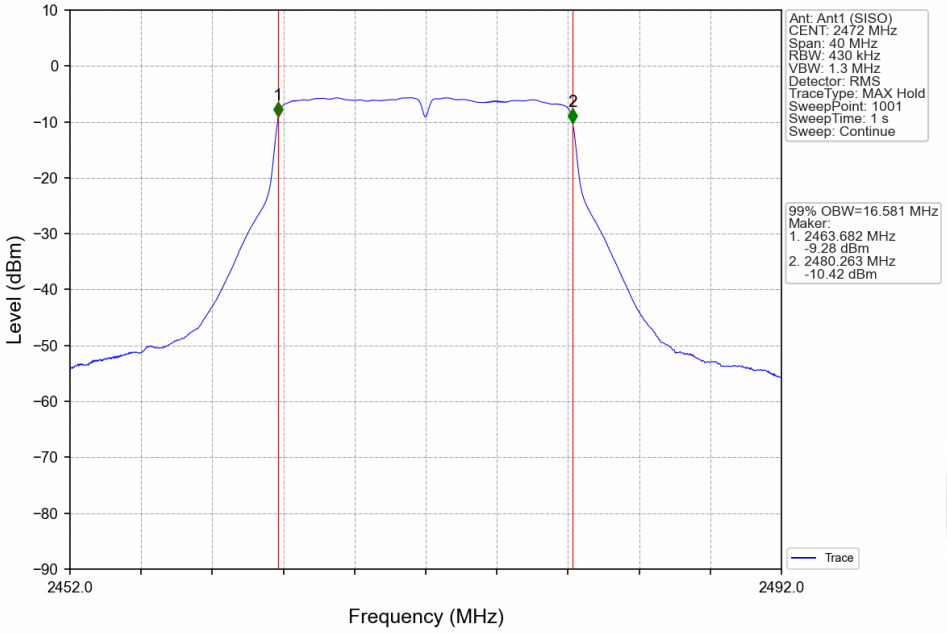

802.11b_2472MHz_Ant1 (SISO)_NTNV



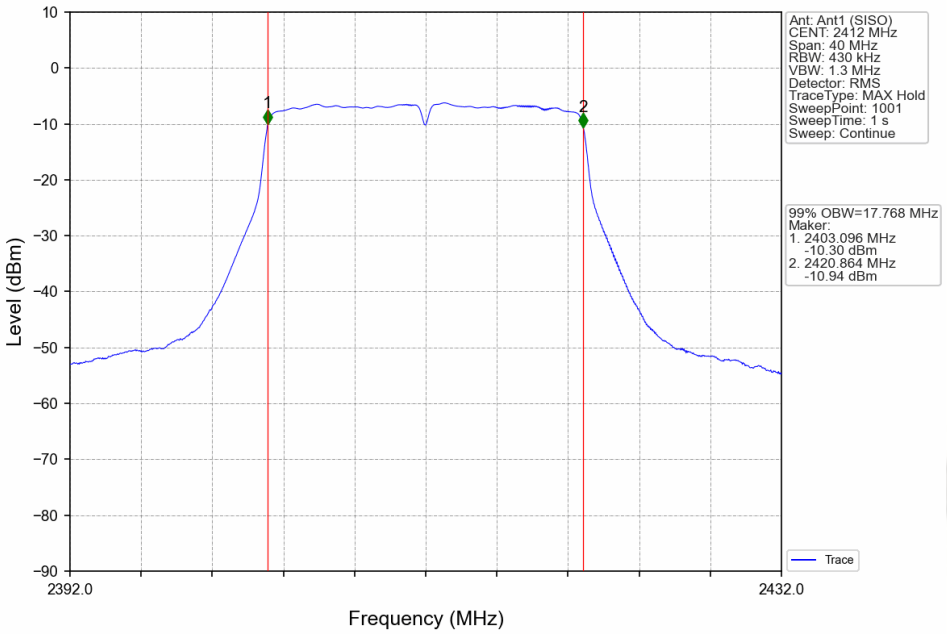
802.11g_2412MHz_Ant1 (SISO)_NTNV



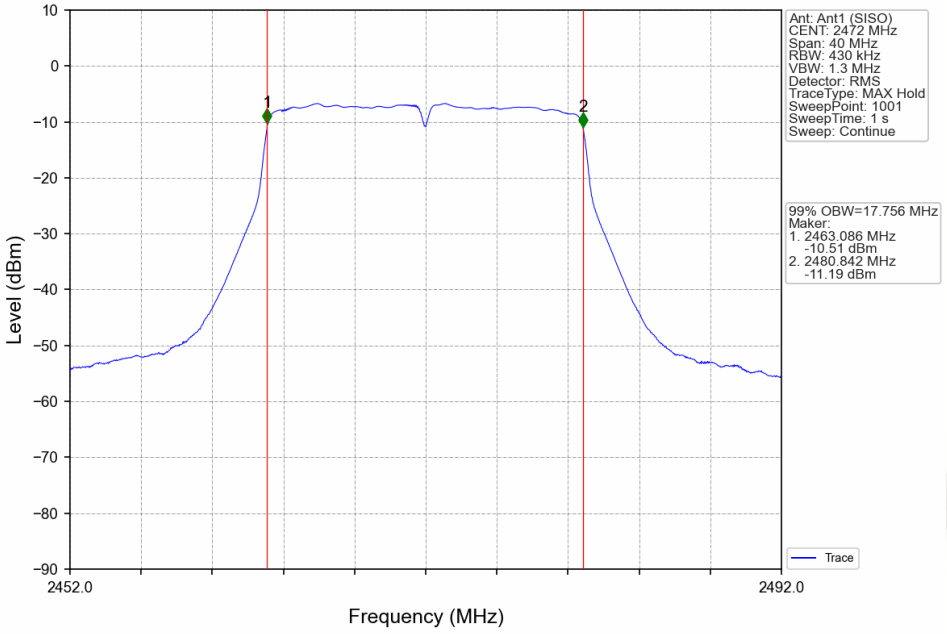

802.11g_2472MHz_Ant1 (SISO)_NTNV



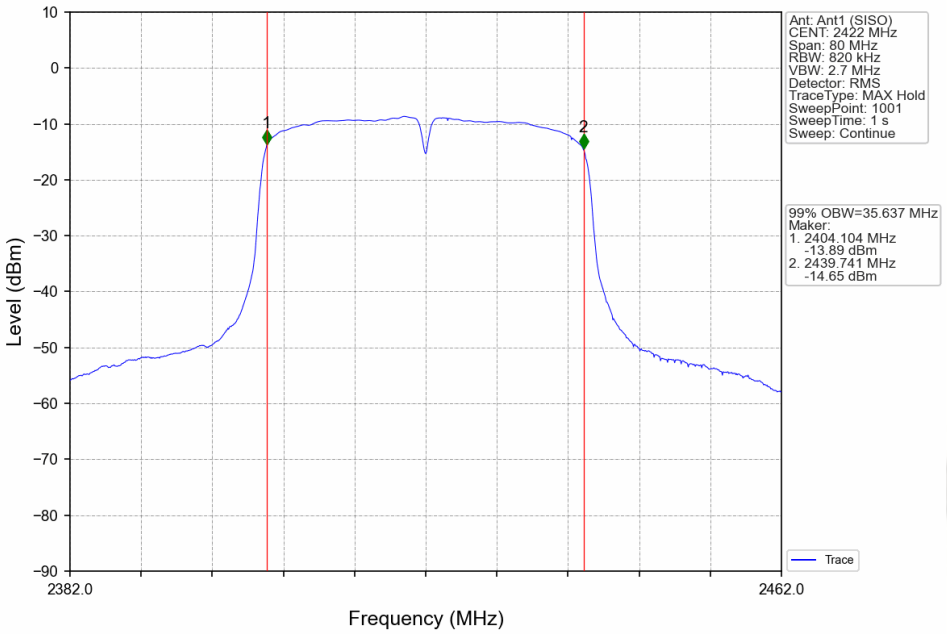
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



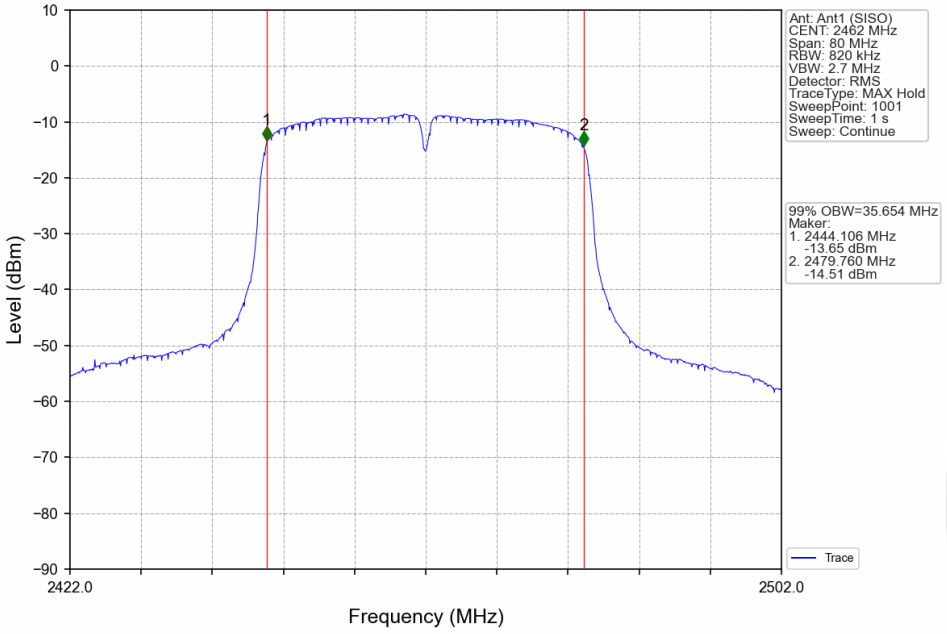

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV




802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



# 5. Transmitter Unwanted Emissions In The Out-Of-Band Domain

## 5.1 802.11b-Ant1

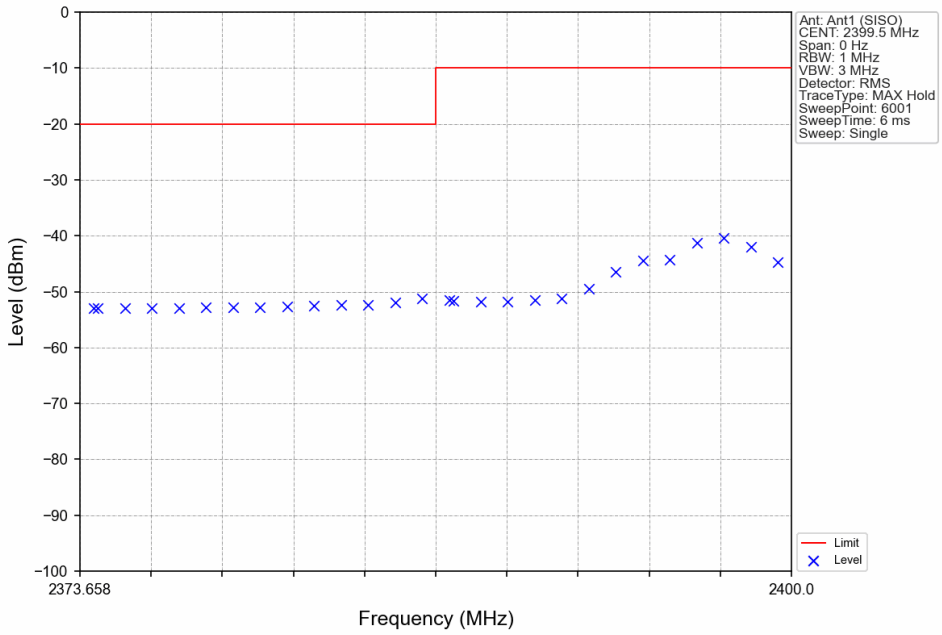
### 5.1.1 Test Result

| Ant1_NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | ANT | Test Freq (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| 802.11b | SISO | 2412 | 1 | 2374.158 | -52.92 | <=-20 | Pass |
| | | | | 2374.329 | -53.03 | <=-20 | Pass |
| | | | | 2375.329 | -52.99 | <=-20 | Pass |
| | | | | 2376.329 | -52.90 | <=-20 | Pass |
| | | | | 2377.329 | -52.93 | <=-20 | Pass |
| | | | | 2378.329 | -52.78 | <=-20 | Pass |
| | | | | 2379.329 | -52.77 | <=-20 | Pass |
| | | | | 2380.329 | -52.76 | <=-20 | Pass |
| | | | | 2381.329 | -52.71 | <=-20 | Pass |
| | | | | 2382.329 | -52.54 | <=-20 | Pass |
| | | | | 2383.329 | -52.33 | <=-20 | Pass |
| | | | | 2384.329 | -52.38 | <=-20 | Pass |
| | | | | 2385.329 | -51.93 | <=-20 | Pass |
| | | | | 2386.329 | -51.18 | <=-20 | Pass |
| | | | | 2387.329 | -51.56 | <=-10 | Pass |
| | | | | 2387.500 | -51.59 | <=-10 | Pass |
| | | | | 2388.500 | -51.85 | <=-10 | Pass |
| | | | | 2389.500 | -51.83 | <=-10 | Pass |
| | | | | 2390.500 | -51.51 | <=-10 | Pass |
| | | | | 2391.500 | -51.25 | <=-10 | Pass |
| | | | | 2392.500 | -49.52 | <=-10 | Pass |
| | | | | 2393.500 | -46.45 | <=-10 | Pass |
| | | | | 2394.500 | -44.39 | <=-10 | Pass |
| | | | | 2395.500 | -44.24 | <=-10 | Pass |
| | | | | 2396.500 | -41.33 | <=-10 | Pass |
| | | | | 2397.500 | -40.42 | <=-10 | Pass |
| | | | | 2398.500 | -42.06 | <=-10 | Pass |
| | | | | 2399.500 | -44.72 | <=-10 | Pass |
| | | 2472 | 1 | 2484.000 | -45.97 | <=-10 | Pass |
| | | | | 2485.000 | -44.93 | <=-10 | Pass |
| | | | | 2486.000 | -43.63 | <=-10 | Pass |
| | | | | 2487.000 | -42.59 | <=-10 | Pass |
| | | | | 2488.000 | -43.76 | <=-10 | Pass |
| | | | | 2489.000 | -45.73 | <=-10 | Pass |
| | | | | 2490.000 | -48.04 | <=-10 | Pass |
| | | | | 2491.000 | -49.73 | <=-10 | Pass |
| | | | | 2492.000 | -51.39 | <=-10 | Pass |
| | | | | 2493.000 | -51.36 | <=-10 | Pass |
| | | | | 2494.000 | -51.91 | <=-10 | Pass |
| | | | | 2495.000 | -52.20 | <=-10 | Pass |
| | | | | 2496.000 | -52.02 | <=-10 | Pass |
| | | | | 2496.147 | -51.97 | <=-10 | Pass |
| | | | | 2497.147 | -51.67 | <=-20 | Pass |
| | | | | 2498.147 | -51.77 | <=-20 | Pass |
| | | | | 2499.147 | -52.22 | <=-20 | Pass |
| | | | | 2500.147 | -52.38 | <=-20 | Pass |

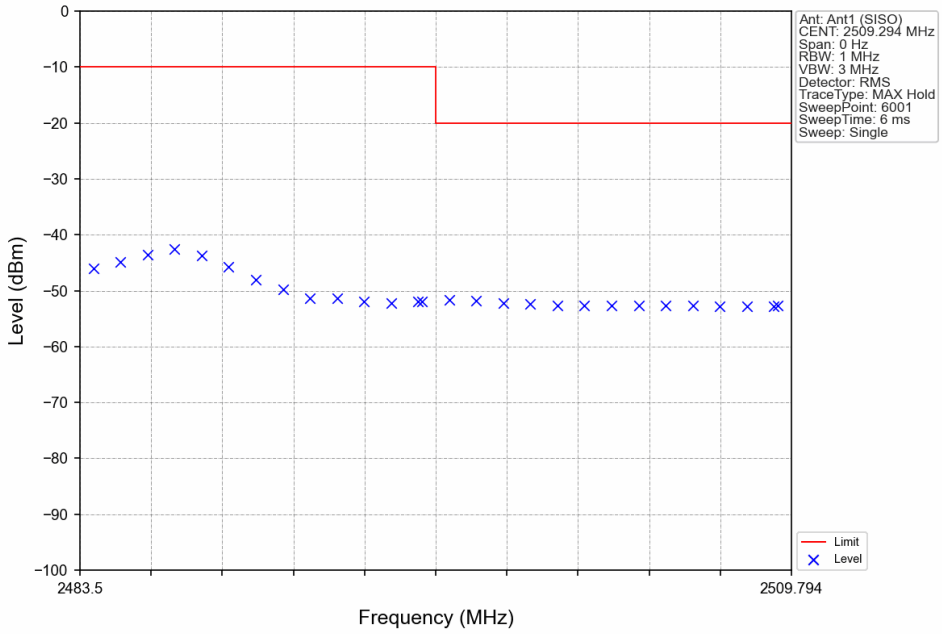
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2501.147 | -52.69 | <=-20 | Pass |
| | | | | 2502.147 | -52.68 | <=-20 | Pass |
| | | | | 2503.147 | -52.63 | <=-20 | Pass |
| | | | | 2504.147 | -52.70 | <=-20 | Pass |
| | | | | 2505.147 | -52.71 | <=-20 | Pass |
| | | | | 2506.147 | -52.72 | <=-20 | Pass |
| | | | | 2507.147 | -52.80 | <=-20 | Pass |
| | | | | 2508.147 | -52.76 | <=-20 | Pass |
| | | | | 2509.147 | -52.78 | <=-20 | Pass |
| | | | | 2509.294 | -52.73 | <=-20 | Pass |

## 5.1.2 Test Graph

802.11b_2412MHz_Ant1 (SISO)_NTNV




802.11b_2472MHz_Ant1 (SISO)_NTNV



## 5.2 802.11g-Ant1

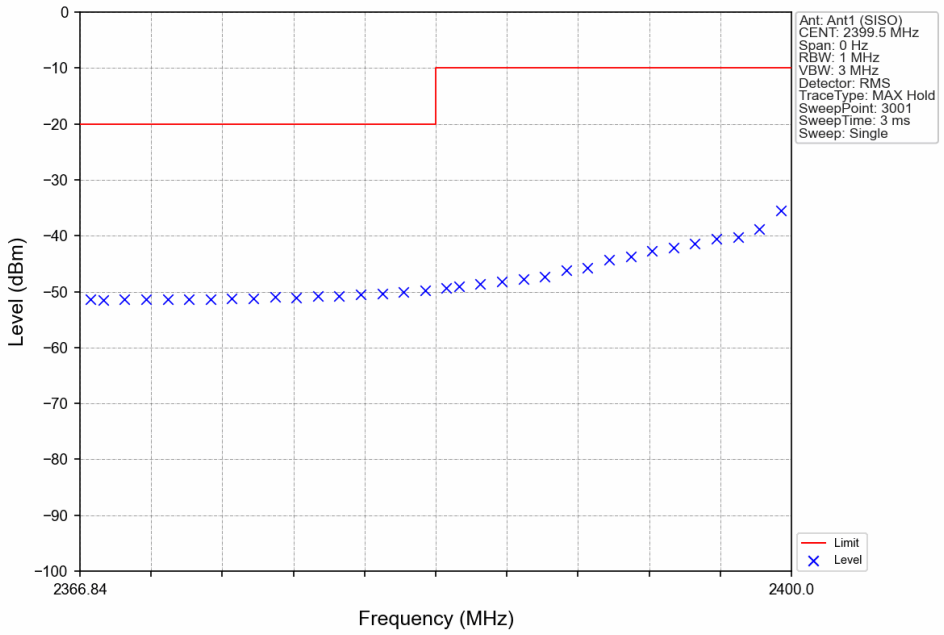
### 5.2.1 Test Result

| Ant1_NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | ANT | Test Freq (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| 802.11g | SISO | 2412 | 1 | 2367.340 | -51.41 | <=-20 | Pass |
| | | | | 2367.920 | -51.51 | <=-20 | Pass |
| | | | | 2368.920 | -51.37 | <=-20 | Pass |
| | | | | 2369.920 | -51.37 | <=-20 | Pass |
| | | | | 2370.920 | -51.42 | <=-20 | Pass |
| | | | | 2371.920 | -51.32 | <=-20 | Pass |
| | | | | 2372.920 | -51.38 | <=-20 | Pass |
| | | | | 2373.920 | -51.23 | <=-20 | Pass |
| | | | | 2374.920 | -51.24 | <=-20 | Pass |
| | | | | 2375.920 | -50.97 | <=-20 | Pass |
| | | | | 2376.920 | -51.04 | <=-20 | Pass |
| | | | | 2377.920 | -50.83 | <=-20 | Pass |
| | | | | 2378.920 | -50.77 | <=-20 | Pass |
| | | | | 2379.920 | -50.48 | <=-20 | Pass |
| | | | | 2380.920 | -50.42 | <=-20 | Pass |
| | | | | 2381.920 | -50.14 | <=-20 | Pass |
| | | | | 2382.920 | -49.83 | <=-20 | Pass |
| | | | | 2383.920 | -49.38 | <=-10 | Pass |
| | | | | 2384.500 | -49.02 | <=-10 | Pass |
| | | | | 2385.500 | -48.59 | <=-10 | Pass |
| | | | | 2386.500 | -48.26 | <=-10 | Pass |
| | | | | 2387.500 | -47.83 | <=-10 | Pass |
| | | | | 2388.500 | -47.28 | <=-10 | Pass |
| | | | | 2389.500 | -46.23 | <=-10 | Pass |
| | | | | 2390.500 | -45.70 | <=-10 | Pass |
| | | | | 2391.500 | -44.37 | <=-10 | Pass |
| | | | | 2392.500 | -43.69 | <=-10 | Pass |
| | | | | 2393.500 | -42.73 | <=-10 | Pass |
| | | | | 2394.500 | -42.20 | <=-10 | Pass |
| | | | | 2395.500 | -41.38 | <=-10 | Pass |
| | | | | 2396.500 | -40.58 | <=-10 | Pass |
| | | | | 2397.500 | -40.22 | <=-10 | Pass |
| | | | | 2398.500 | -38.86 | <=-10 | Pass |
| | | | | 2399.500 | -35.48 | <=-10 | Pass |
| | | 2472 | 1 | 2484.000 | -35.20 | <=-10 | Pass |
| | | | | 2485.000 | -39.32 | <=-10 | Pass |
| | | | | 2486.000 | -42.12 | <=-10 | Pass |
| | | | | 2487.000 | -43.48 | <=-10 | Pass |
| | | | | 2488.000 | -44.63 | <=-10 | Pass |
| | | | | 2489.000 | -45.24 | <=-10 | Pass |
| | | | | 2490.000 | -45.70 | <=-10 | Pass |
| | | | | 2491.000 | -46.17 | <=-10 | Pass |
| | | | | 2492.000 | -47.19 | <=-10 | Pass |
| | | | | 2493.000 | -47.84 | <=-10 | Pass |
| | | | | 2494.000 | -48.48 | <=-10 | Pass |
| | | | | 2495.000 | -49.27 | <=-10 | Pass |
| | | | | 2496.000 | -49.80 | <=-10 | Pass |
| | | | | 2497.000 | -50.39 | <=-10 | Pass |
| | | | | 2498.000 | -50.85 | <=-10 | Pass |

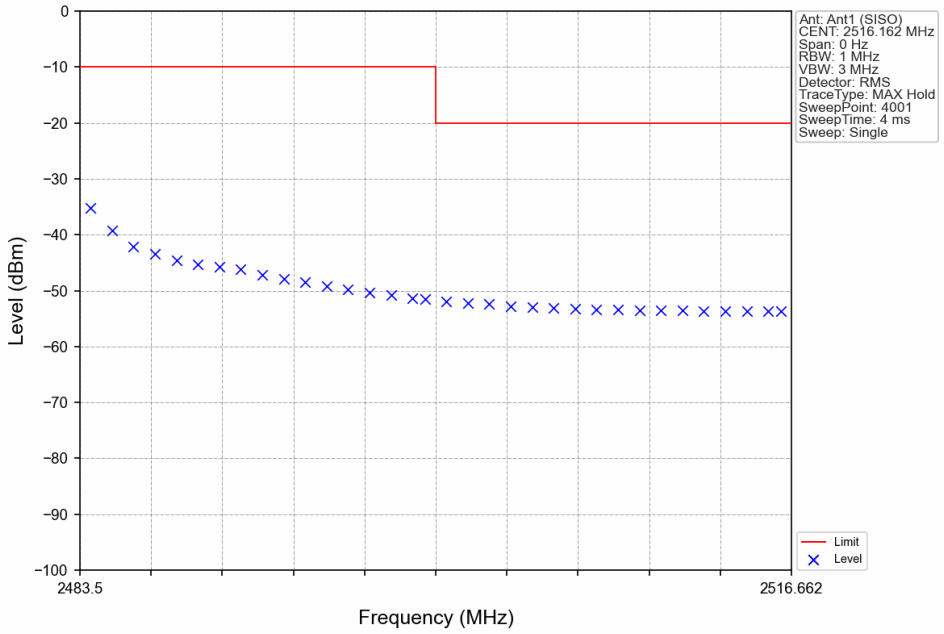
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2499.000 | -51.34 | <=-10 | Pass |
| | | | | 2499.581 | -51.55 | <=-10 | Pass |
| | | | | 2500.581 | -52.00 | <=-20 | Pass |
| | | | | 2501.581 | -52.21 | <=-20 | Pass |
| | | | | 2502.581 | -52.43 | <=-20 | Pass |
| | | | | 2503.581 | -52.78 | <=-20 | Pass |
| | | | | 2504.581 | -52.95 | <=-20 | Pass |
| | | | | 2505.581 | -53.07 | <=-20 | Pass |
| | | | | 2506.581 | -53.18 | <=-20 | Pass |
| | | | | 2507.581 | -53.34 | <=-20 | Pass |
| | | | | 2508.581 | -53.44 | <=-20 | Pass |
| | | | | 2509.581 | -53.48 | <=-20 | Pass |
| | | | | 2510.581 | -53.59 | <=-20 | Pass |
| | | | | 2511.581 | -53.54 | <=-20 | Pass |
| | | | | 2512.581 | -53.66 | <=-20 | Pass |
| | | | | 2513.581 | -53.61 | <=-20 | Pass |
| | | | | 2514.581 | -53.66 | <=-20 | Pass |
| | | | | 2515.581 | -53.75 | <=-20 | Pass |
| | | | | 2516.162 | -53.70 | <=-20 | Pass |

## 5.2.2 Test Graph

802.11g_2412MHz_Ant1 (SISO)_NTNV




802.11g_2472MHz_Ant1 (SISO)_NTNV



## 5.3 802.11n(HT20)-Ant1

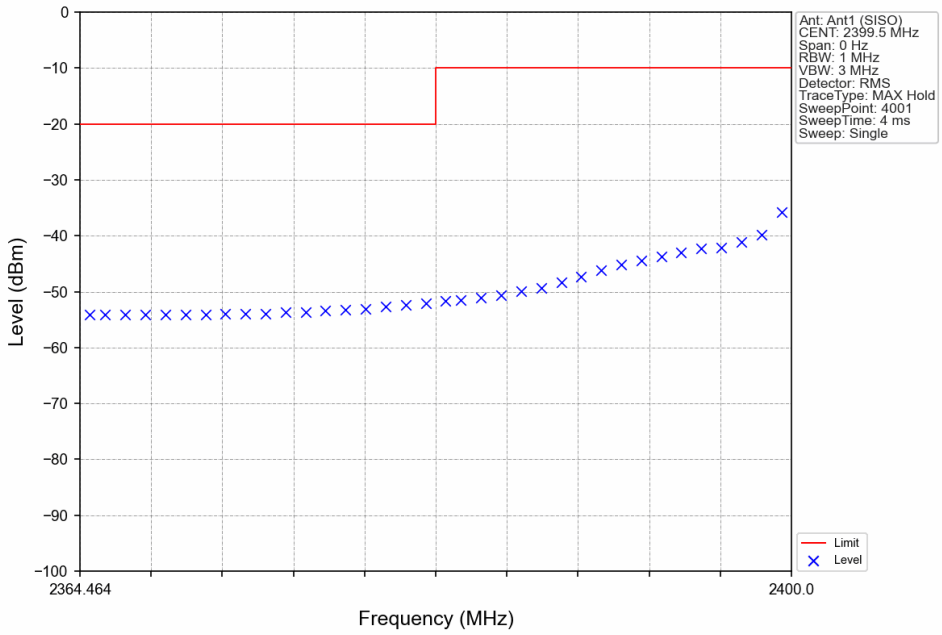
### 5.3.1 Test Result

| Ant1_NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | ANT | Test Freq (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| 802.11n (HT20) | SISO | 2412 | 1 | 2364.964 | -54.15 | <=-20 | Pass |
| | | | | 2365.732 | -54.17 | <=-20 | Pass |
| | | | | 2366.732 | -54.15 | <=-20 | Pass |
| | | | | 2367.732 | -54.06 | <=-20 | Pass |
| | | | | 2368.732 | -54.06 | <=-20 | Pass |
| | | | | 2369.732 | -54.15 | <=-20 | Pass |
| | | | | 2370.732 | -54.05 | <=-20 | Pass |
| | | | | 2371.732 | -54.02 | <=-20 | Pass |
| | | | | 2372.732 | -53.98 | <=-20 | Pass |
| | | | | 2373.732 | -53.92 | <=-20 | Pass |
| | | | | 2374.732 | -53.68 | <=-20 | Pass |
| | | | | 2375.732 | -53.68 | <=-20 | Pass |
| | | | | 2376.732 | -53.45 | <=-20 | Pass |
| | | | | 2377.732 | -53.18 | <=-20 | Pass |
| | | | | 2378.732 | -53.09 | <=-20 | Pass |
| | | | | 2379.732 | -52.69 | <=-20 | Pass |
| | | | | 2380.732 | -52.36 | <=-20 | Pass |
| | | | | 2381.732 | -52.10 | <=-20 | Pass |
| | | | | 2382.732 | -51.66 | <=-10 | Pass |
| | | | | 2383.500 | -51.51 | <=-10 | Pass |
| | | | | 2384.500 | -51.08 | <=-10 | Pass |
| | | | | 2385.500 | -50.61 | <=-10 | Pass |
| | | | | 2386.500 | -49.95 | <=-10 | Pass |
| | | | | 2387.500 | -49.38 | <=-10 | Pass |
| | | | | 2388.500 | -48.28 | <=-10 | Pass |
| | | | | 2389.500 | -47.35 | <=-10 | Pass |
| | | | | 2390.500 | -46.12 | <=-10 | Pass |
| | | | | 2391.500 | -45.18 | <=-10 | Pass |
| | | | | 2392.500 | -44.49 | <=-10 | Pass |
| | | | | 2393.500 | -43.75 | <=-10 | Pass |
| | | | | 2394.500 | -43.03 | <=-10 | Pass |
| | | | | 2395.500 | -42.34 | <=-10 | Pass |
| | | | | 2396.500 | -42.13 | <=-10 | Pass |
| | | | | 2397.500 | -41.15 | <=-10 | Pass |
| | | | | 2398.500 | -39.81 | <=-10 | Pass |
| | | | | 2399.500 | -35.74 | <=-10 | Pass |
| | | 2472 | 1 | 2484.000 | -34.47 | <=-10 | Pass |
| | | | | 2485.000 | -40.94 | <=-10 | Pass |
| | | | | 2486.000 | -43.01 | <=-10 | Pass |
| | | | | 2487.000 | -44.07 | <=-10 | Pass |
| | | | | 2488.000 | -44.65 | <=-10 | Pass |
| | | | | 2489.000 | -45.31 | <=-10 | Pass |
| | | | | 2490.000 | -45.94 | <=-10 | Pass |
| | | | | 2491.000 | -46.59 | <=-10 | Pass |
| | | | | 2492.000 | -47.41 | <=-10 | Pass |
| | | | | 2493.000 | -48.23 | <=-10 | Pass |
| | | | | 2494.000 | -48.96 | <=-10 | Pass |
| | | | | 2495.000 | -49.52 | <=-10 | Pass |
| | | | | 2496.000 | -50.66 | <=-10 | Pass |

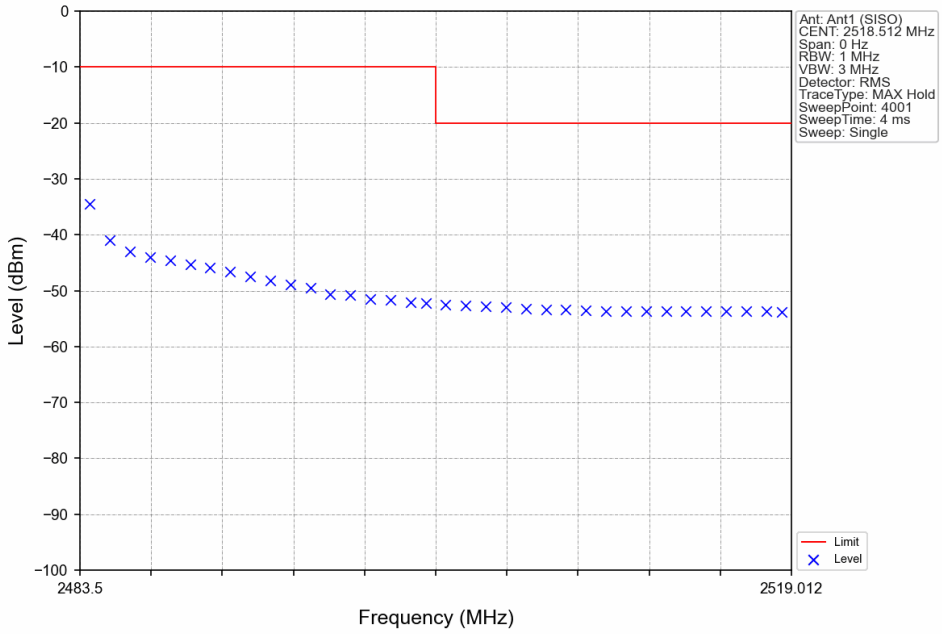
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2497.000 | -50.86 | <=-10 | Pass |
| | | | | 2498.000 | -51.56 | <=-10 | Pass |
| | | | | 2499.000 | -51.67 | <=-10 | Pass |
| | | | | 2500.000 | -52.15 | <=-10 | Pass |
| | | | | 2500.756 | -52.28 | <=-10 | Pass |
| | | | | 2501.756 | -52.51 | <=-20 | Pass |
| | | | | 2502.756 | -52.66 | <=-20 | Pass |
| | | | | 2503.756 | -52.85 | <=-20 | Pass |
| | | | | 2504.756 | -53.02 | <=-20 | Pass |
| | | | | 2505.756 | -53.21 | <=-20 | Pass |
| | | | | 2506.756 | -53.32 | <=-20 | Pass |
| | | | | 2507.756 | -53.40 | <=-20 | Pass |
| | | | | 2508.756 | -53.48 | <=-20 | Pass |
| | | | | 2509.756 | -53.61 | <=-20 | Pass |
| | | | | 2510.756 | -53.61 | <=-20 | Pass |
| | | | | 2511.756 | -53.74 | <=-20 | Pass |
| | | | | 2512.756 | -53.66 | <=-20 | Pass |
| | | | | 2513.756 | -53.61 | <=-20 | Pass |
| | | | | 2514.756 | -53.73 | <=-20 | Pass |
| | | | | 2515.756 | -53.72 | <=-20 | Pass |
| | | | | 2516.756 | -53.69 | <=-20 | Pass |
| | | | | 2517.756 | -53.74 | <=-20 | Pass |
| | | | | 2518.512 | -53.85 | <=-20 | Pass |

## 5.3.2 Test Graph

802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV




802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



## 5.4 802.11n(HT40)-Ant1

### 5.4.1 Test Result

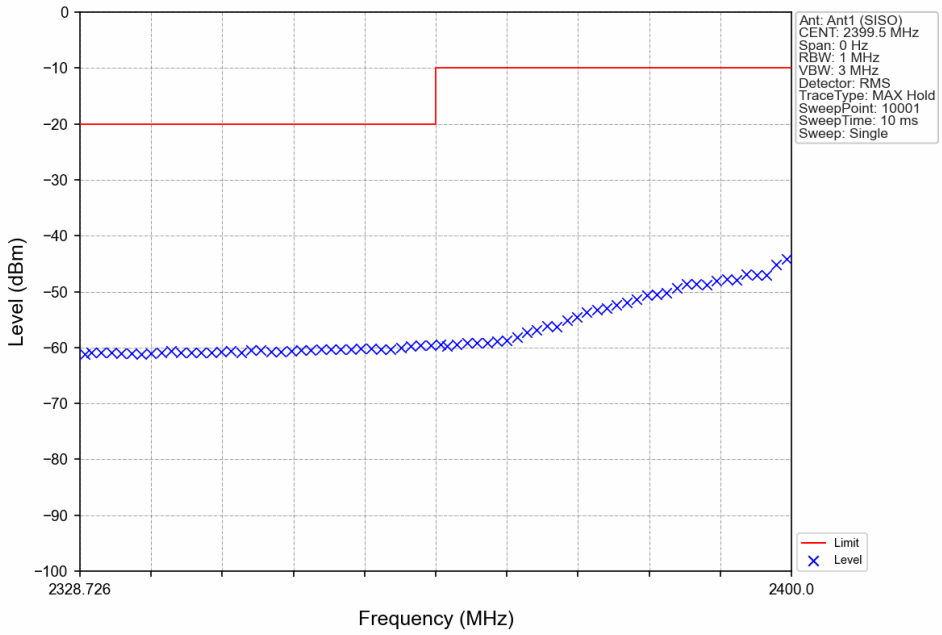
| Ant1_NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | ANT | Test Freq (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| 802.11n (HT40) | SISO | 2422 | 1 | 2329.226 | -61.20 | <=-20 | Pass |
| | | | | 2329.863 | -60.93 | <=-20 | Pass |
| | | | | 2330.863 | -60.90 | <=-20 | Pass |
| | | | | 2331.863 | -60.95 | <=-20 | Pass |
| | | | | 2332.863 | -61.09 | <=-20 | Pass |
| | | | | 2333.863 | -60.98 | <=-20 | Pass |
| | | | | 2334.863 | -61.12 | <=-20 | Pass |
| | | | | 2335.863 | -61.05 | <=-20 | Pass |
| | | | | 2336.863 | -60.92 | <=-20 | Pass |
| | | | | 2337.863 | -60.67 | <=-20 | Pass |
| | | | | 2338.863 | -60.96 | <=-20 | Pass |
| | | | | 2339.863 | -60.94 | <=-20 | Pass |
| | | | | 2340.863 | -60.91 | <=-20 | Pass |
| | | | | 2341.863 | -60.87 | <=-20 | Pass |
| | | | | 2342.863 | -60.73 | <=-20 | Pass |
| | | | | 2343.863 | -60.67 | <=-20 | Pass |
| | | | | 2344.863 | -60.85 | <=-20 | Pass |
| | | | | 2345.863 | -60.51 | <=-20 | Pass |
| | | | | 2346.863 | -60.48 | <=-20 | Pass |
| | | | | 2347.863 | -60.82 | <=-20 | Pass |
| | | | | 2348.863 | -60.74 | <=-20 | Pass |
| | | | | 2349.863 | -60.61 | <=-20 | Pass |
| | | | | 2350.863 | -60.47 | <=-20 | Pass |
| | | | | 2351.863 | -60.39 | <=-20 | Pass |
| | | | | 2352.863 | -60.33 | <=-20 | Pass |
| | | | | 2353.863 | -60.36 | <=-20 | Pass |
| | | | | 2354.863 | -60.33 | <=-20 | Pass |
| | | | | 2355.863 | -60.25 | <=-20 | Pass |
| | | | | 2356.863 | -60.16 | <=-20 | Pass |
| | | | | 2357.863 | -60.23 | <=-20 | Pass |
| | | | | 2358.863 | -60.33 | <=-20 | Pass |
| | | | | 2359.863 | -60.26 | <=-20 | Pass |
| | | | | 2360.863 | -60.02 | <=-20 | Pass |
| | | | | 2361.863 | -59.67 | <=-20 | Pass |
| | | | | 2362.863 | -59.64 | <=-20 | Pass |
| | | | | 2363.863 | -59.55 | <=-20 | Pass |
| | | | | 2364.863 | -59.39 | <=-10 | Pass |
| | | | | 2365.500 | -59.80 | <=-10 | Pass |
| | | | | 2366.500 | -59.51 | <=-10 | Pass |
| | | | | 2367.500 | -59.12 | <=-10 | Pass |
| | | | | 2368.500 | -59.10 | <=-10 | Pass |
| | | | | 2369.500 | -59.22 | <=-10 | Pass |
| | | | | 2370.500 | -58.87 | <=-10 | Pass |
| | | | | 2371.500 | -58.79 | <=-10 | Pass |
| | | | | 2372.500 | -58.12 | <=-10 | Pass |
| | | | | 2373.500 | -57.31 | <=-10 | Pass |
| | | | | 2374.500 | -56.88 | <=-10 | Pass |
| | | | | 2375.500 | -56.20 | <=-10 | Pass |
| | | | | 2376.500 | -56.22 | <=-10 | Pass |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2377.500 | -55.06 | <=-10 | Pass |
| | | | | 2378.500 | -54.57 | <=-10 | Pass |
| | | | | 2379.500 | -53.67 | <=-10 | Pass |
| | | | | 2380.500 | -53.24 | <=-10 | Pass |
| | | | | 2381.500 | -52.98 | <=-10 | Pass |
| | | | | 2382.500 | -52.41 | <=-10 | Pass |
| | | | | 2383.500 | -52.01 | <=-10 | Pass |
| | | | | 2384.500 | -51.38 | <=-10 | Pass |
| | | | | 2385.500 | -50.68 | <=-10 | Pass |
| | | | | 2386.500 | -50.57 | <=-10 | Pass |
| | | | | 2387.500 | -50.23 | <=-10 | Pass |
| | | | | 2388.500 | -49.31 | <=-10 | Pass |
| | | | | 2389.500 | -48.66 | <=-10 | Pass |
| | | | | 2390.500 | -48.69 | <=-10 | Pass |
| | | | | 2391.500 | -48.74 | <=-10 | Pass |
| | | | | 2392.500 | -48.12 | <=-10 | Pass |
| | | | | 2393.500 | -47.78 | <=-10 | Pass |
| | | | | 2394.500 | -47.89 | <=-10 | Pass |
| | | | | 2395.500 | -46.95 | <=-10 | Pass |
| | | | | 2396.500 | -47.01 | <=-10 | Pass |
| | | | | 2397.500 | -47.02 | <=-10 | Pass |
| | | | | 2398.500 | -45.17 | <=-10 | Pass |
| | | | | 2399.500 | -44.20 | <=-10 | Pass |
| | | 2462 | 1 | 2484.000 | -43.59 | <=-10 | Pass |
| | | | | 2485.000 | -45.55 | <=-10 | Pass |
| | | | | 2486.000 | -46.99 | <=-10 | Pass |
| | | | | 2487.000 | -47.61 | <=-10 | Pass |
| | | | | 2488.000 | -48.99 | <=-10 | Pass |
| | | | | 2489.000 | -49.54 | <=-10 | Pass |
| | | | | 2490.000 | -49.17 | <=-10 | Pass |
| | | | | 2491.000 | -49.89 | <=-10 | Pass |
| | | | | 2492.000 | -50.45 | <=-10 | Pass |
| | | | | 2493.000 | -50.65 | <=-10 | Pass |
| | | | | 2494.000 | -51.09 | <=-10 | Pass |
| | | | | 2495.000 | -51.23 | <=-10 | Pass |
| | | | | 2496.000 | -51.37 | <=-10 | Pass |
| | | | | 2497.000 | -52.04 | <=-10 | Pass |
| | | | | 2498.000 | -51.85 | <=-10 | Pass |
| | | | | 2499.000 | -52.70 | <=-10 | Pass |
| | | | | 2500.000 | -52.94 | <=-10 | Pass |
| | | | | 2501.000 | -54.37 | <=-10 | Pass |
| | | | | 2502.000 | -54.61 | <=-10 | Pass |
| | | | | 2503.000 | -55.00 | <=-10 | Pass |
| | | | | 2504.000 | -55.14 | <=-10 | Pass |
| | | | | 2505.000 | -55.76 | <=-10 | Pass |
| | | | | 2506.000 | -55.93 | <=-10 | Pass |
| | | | | 2507.000 | -56.16 | <=-10 | Pass |
| | | | | 2508.000 | -56.76 | <=-10 | Pass |
| | | | | 2509.000 | -56.88 | <=-10 | Pass |
| | | | | 2510.000 | -57.27 | <=-10 | Pass |
| | | | | 2511.000 | -58.20 | <=-10 | Pass |
| | | | | 2512.000 | -58.28 | <=-10 | Pass |
| | | | | 2513.000 | -58.23 | <=-10 | Pass |
| | | | | 2514.000 | -58.36 | <=-10 | Pass |
| | | | | 2515.000 | -58.51 | <=-10 | Pass |
| | | | | 2516.000 | -58.73 | <=-10 | Pass |
| | | | | 2517.000 | -58.87 | <=-10 | Pass |
| | | | | 2518.000 | -58.91 | <=-10 | Pass |
| | | | | 2518.654 | -58.99 | <=-10 | Pass |

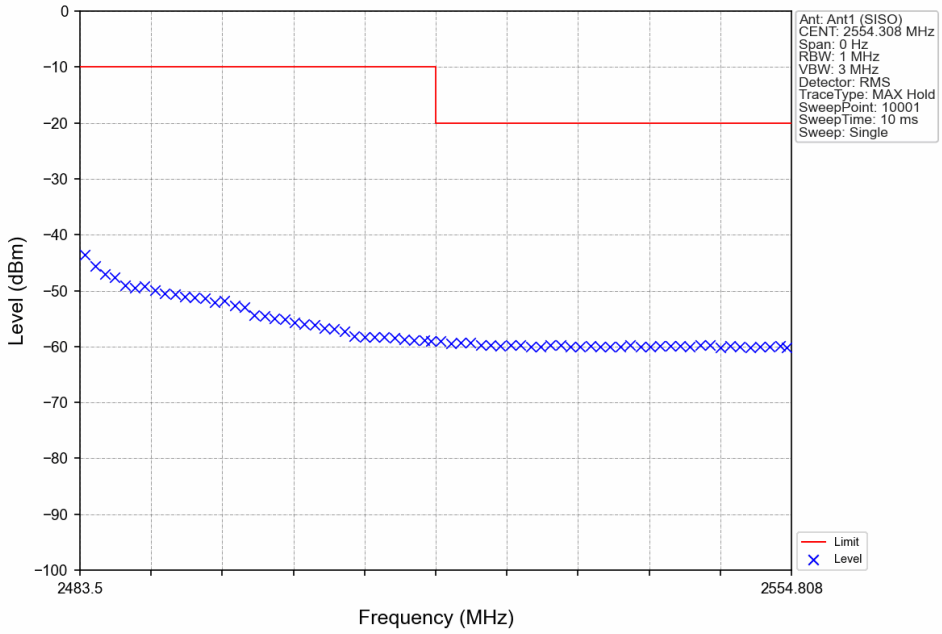
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2519.654 | -59.00 | <=-20 | Pass |
| | | | | 2520.654 | -59.48 | <=-20 | Pass |
| | | | | 2521.654 | -59.35 | <=-20 | Pass |
| | | | | 2522.654 | -59.32 | <=-20 | Pass |
| | | | | 2523.654 | -59.73 | <=-20 | Pass |
| | | | | 2524.654 | -59.73 | <=-20 | Pass |
| | | | | 2525.654 | -59.88 | <=-20 | Pass |
| | | | | 2526.654 | -59.80 | <=-20 | Pass |
| | | | | 2527.654 | -59.72 | <=-20 | Pass |
| | | | | 2528.654 | -59.96 | <=-20 | Pass |
| | | | | 2529.654 | -59.98 | <=-20 | Pass |
| | | | | 2530.654 | -59.75 | <=-20 | Pass |
| | | | | 2531.654 | -59.81 | <=-20 | Pass |
| | | | | 2532.654 | -60.06 | <=-20 | Pass |
| | | | | 2533.654 | -60.03 | <=-20 | Pass |
| | | | | 2534.654 | -59.82 | <=-20 | Pass |
| | | | | 2535.654 | -59.99 | <=-20 | Pass |
| | | | | 2536.654 | -59.97 | <=-20 | Pass |
| | | | | 2537.654 | -60.09 | <=-20 | Pass |
| | | | | 2538.654 | -59.80 | <=-20 | Pass |
| | | | | 2539.654 | -60.08 | <=-20 | Pass |
| | | | | 2540.654 | -60.07 | <=-20 | Pass |
| | | | | 2541.654 | -59.94 | <=-20 | Pass |
| | | | | 2542.654 | -59.91 | <=-20 | Pass |
| | | | | 2543.654 | -59.87 | <=-20 | Pass |
| | | | | 2544.654 | -59.97 | <=-20 | Pass |
| | | | | 2545.654 | -59.81 | <=-20 | Pass |
| | | | | 2546.654 | -59.81 | <=-20 | Pass |
| | | | | 2547.654 | -60.17 | <=-20 | Pass |
| | | | | 2548.654 | -59.84 | <=-20 | Pass |
| | | | | 2549.654 | -60.02 | <=-20 | Pass |
| | | | | 2550.654 | -60.12 | <=-20 | Pass |
| | | | | 2551.654 | -59.98 | <=-20 | Pass |
| | | | | 2552.654 | -60.10 | <=-20 | Pass |
| | | | | 2553.654 | -59.93 | <=-20 | Pass |
| | | | | 2554.308 | -60.11 | <=-20 | Pass |

## 5.4.2 Test Graph

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV




802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



# 6. Receiver Blocking

## 6.1 Ant1

### 6.1.1 Test Result

| Ant1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ENV | Mode | TX Type | Frequency (MHz) | Wanted signal level (dBm) | Blocking Signal | | PER (%) | Limit (%) | Verdict |
| | | | | | Frequency (MHz) | Power (dBm) | | | |
| NTNV | 802.11b | SISO | 2412 | -69.19 | 2300 | -29.19 | 0.10 | <=10 | Pass |
| | | | | | 2330 | -29.19 | 0.00 | <=10 | Pass |
| | | | | | 2360 | -29.19 | 0.00 | <=10 | Pass |
| | | | | -63.19 | 2380 | -29.19 | 0.00 | <=10 | Pass |
| | | | 2472 | -63.19 | 2504 | -29.19 | 0.00 | <=10 | Pass |
| | | | | -69.19 | 2524 | -29.19 | 0.90 | <=10 | Pass |
| | | | | | 2584 | -29.19 | 0.20 | <=10 | Pass |
| | | | | | 2674 | -29.19 | 0.20 | <=10 | Pass |
| Note1: Receiver Category=1 | | | | | | | | | |