

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: HD IP Camera

Trade Mark: FOSCAM

Test Model: C2M

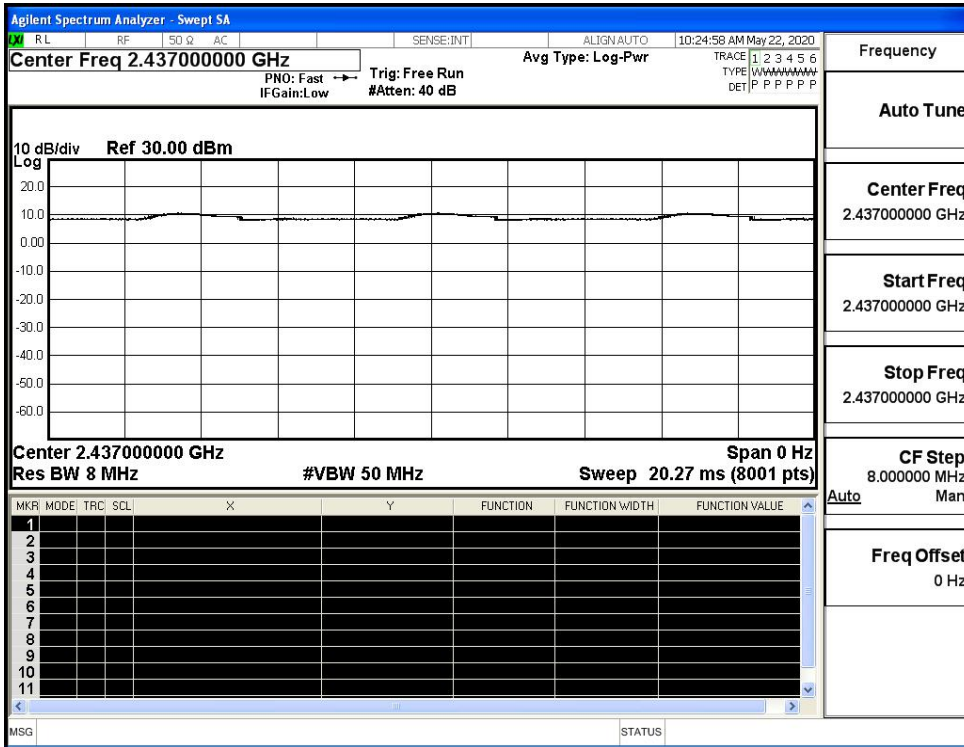
Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 23.5 ° C |
| Relative Humidity: | 53.7% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Qu Xin |
| Supervised by: | Li Huan |

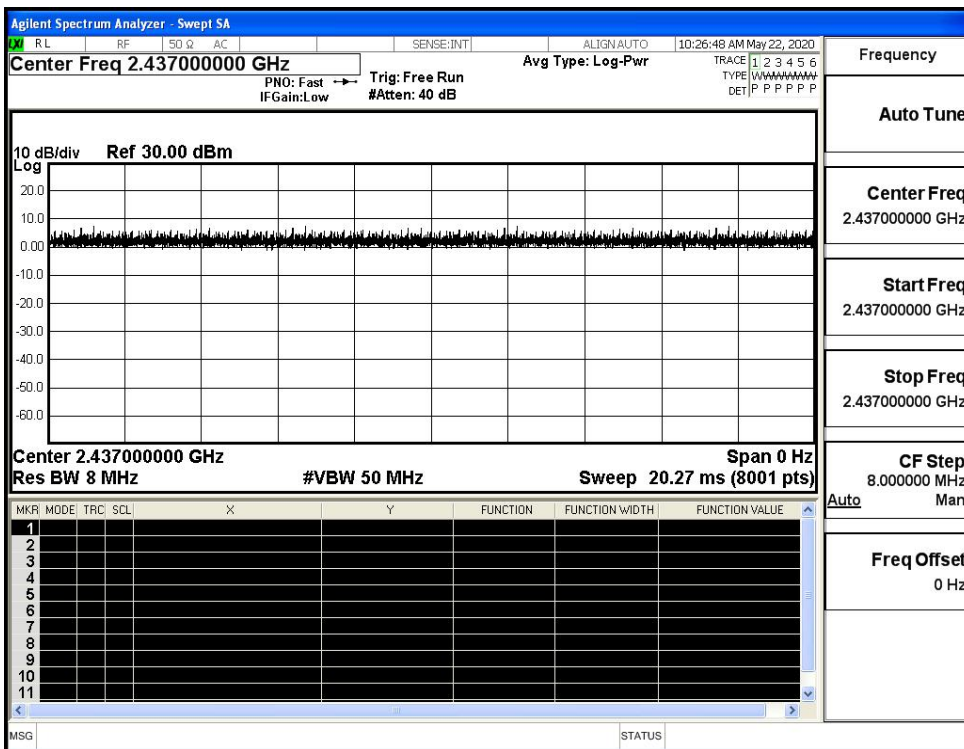
A.1 Duty Cycle

| Test Mode | Test Channel | Ant | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| 11B | 2437 | Ant1 | 100 | PASS |
| 11G | 2437 | Ant1 | 100 | PASS |
| 11N20SISO | 2437 | Ant1 | 100 | PASS |
| 11N40SISO | 2437 | Ant1 | 100 | PASS |

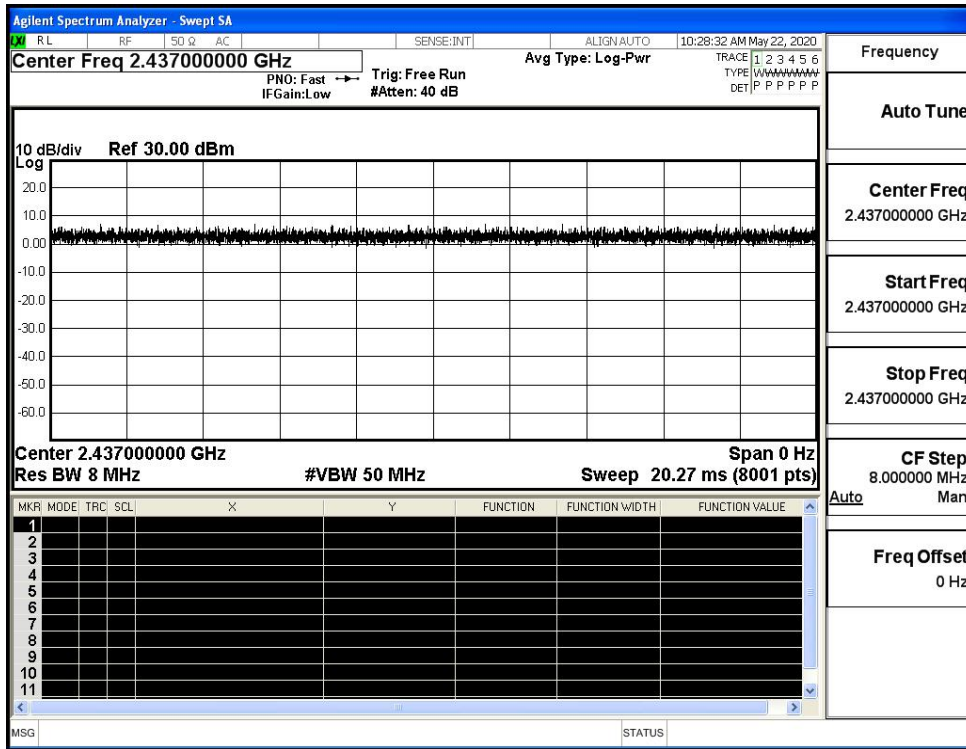
Duty Cycle_11B_2437_Ant1



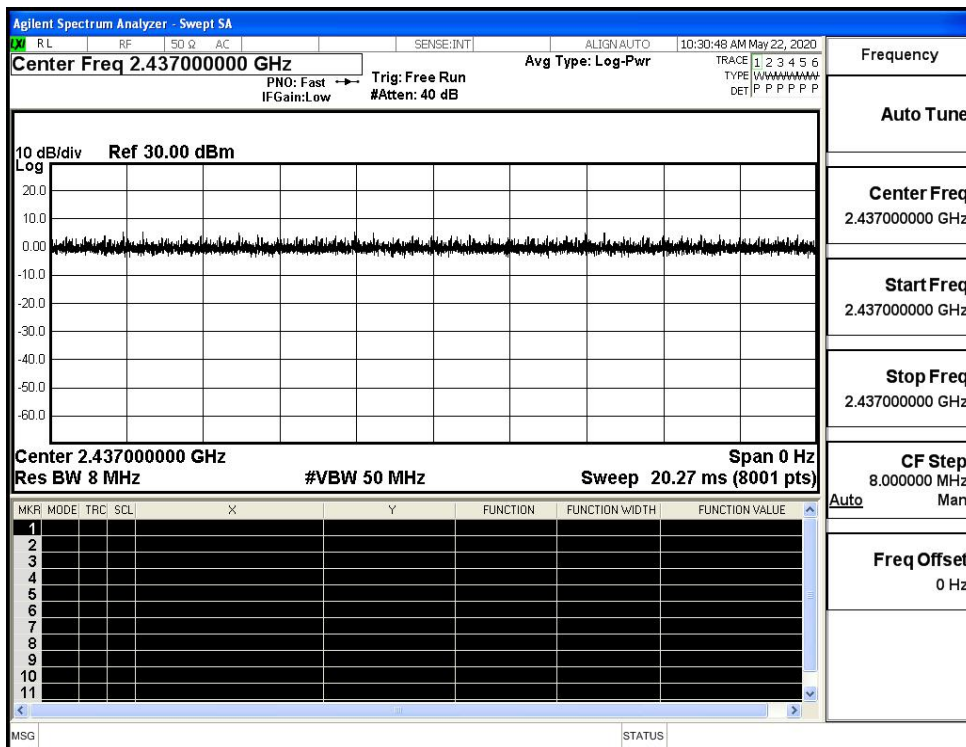
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

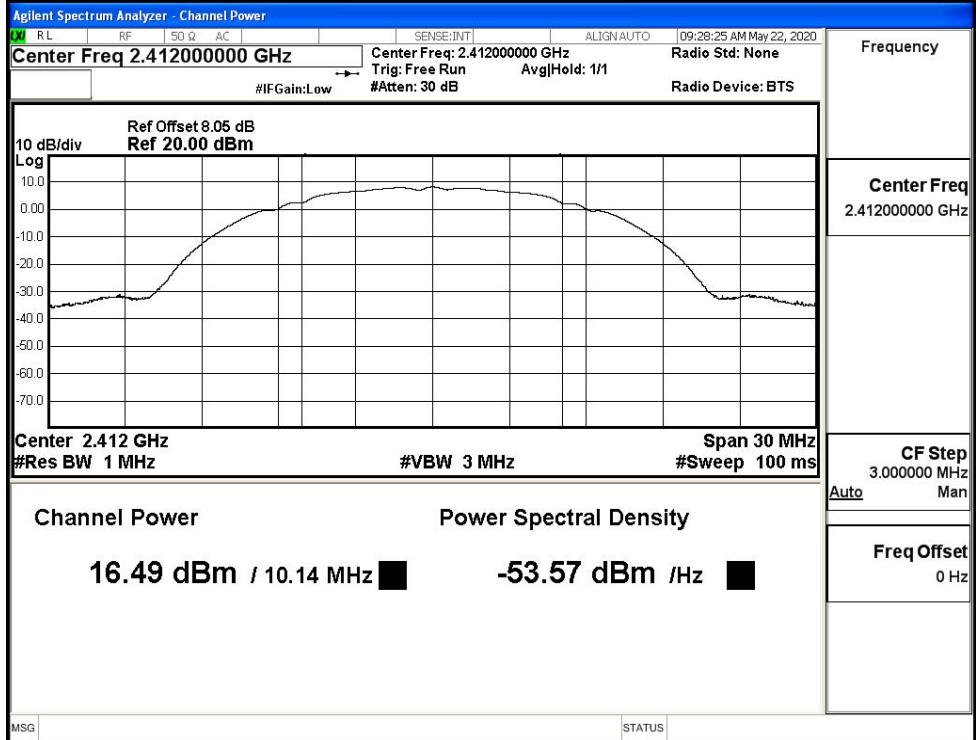


A.2 Maximum Conducted Output Power

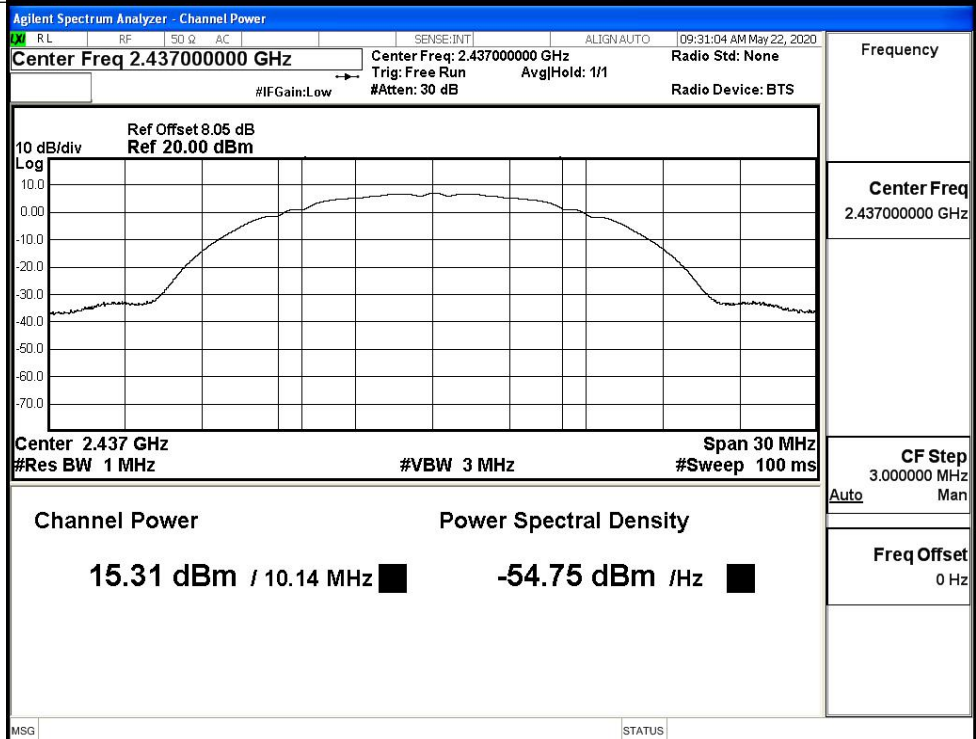
| Mode | Channel | Meas.Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|------------------|-------------|---------|
| 11B | LCH | 16.49 | 30 | PASS |
| | MCH | 15.31 | 30 | PASS |
| | HCH | 14.66 | 30 | PASS |
| 11G | LCH | 16.96 | 30 | PASS |
| | MCH | 16.73 | 30 | PASS |
| | HCH | 15.63 | 30 | PASS |
| 11N20SISO | LCH | 16.67 | 30 | PASS |
| | MCH | 15.97 | 30 | PASS |
| | HCH | 15.63 | 30 | PASS |
| 11N40SISO | LCH | 16.02 | 30 | PASS |
| | MCH | 15.99 | 30 | PASS |
| | HCH | 16.31 | 30 | PASS |

Test Graphs

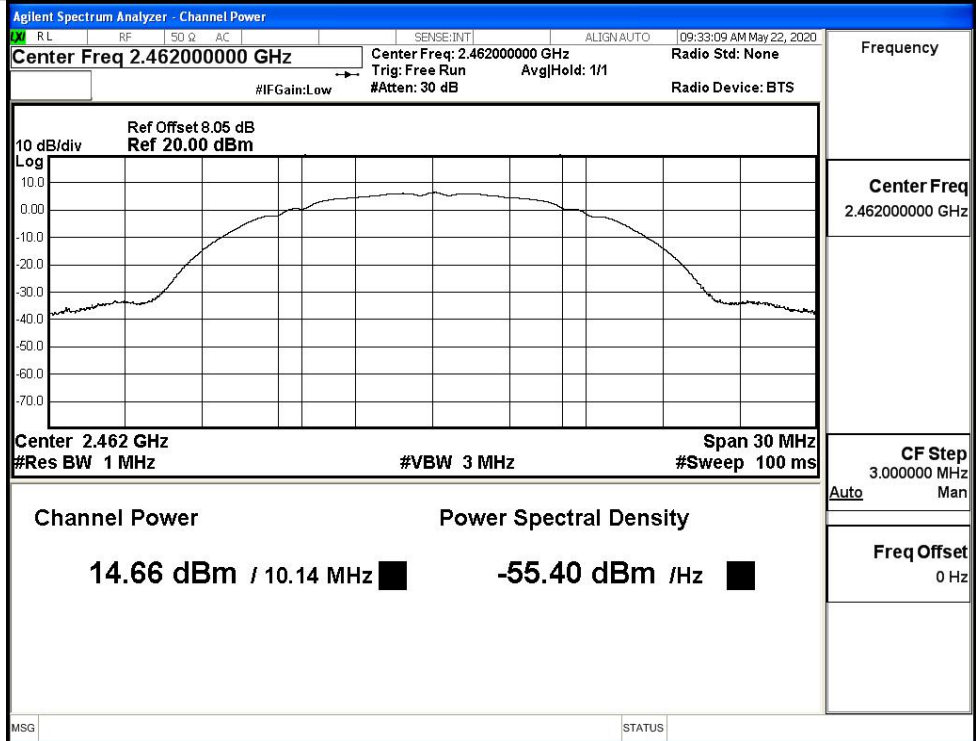
11B/LCH



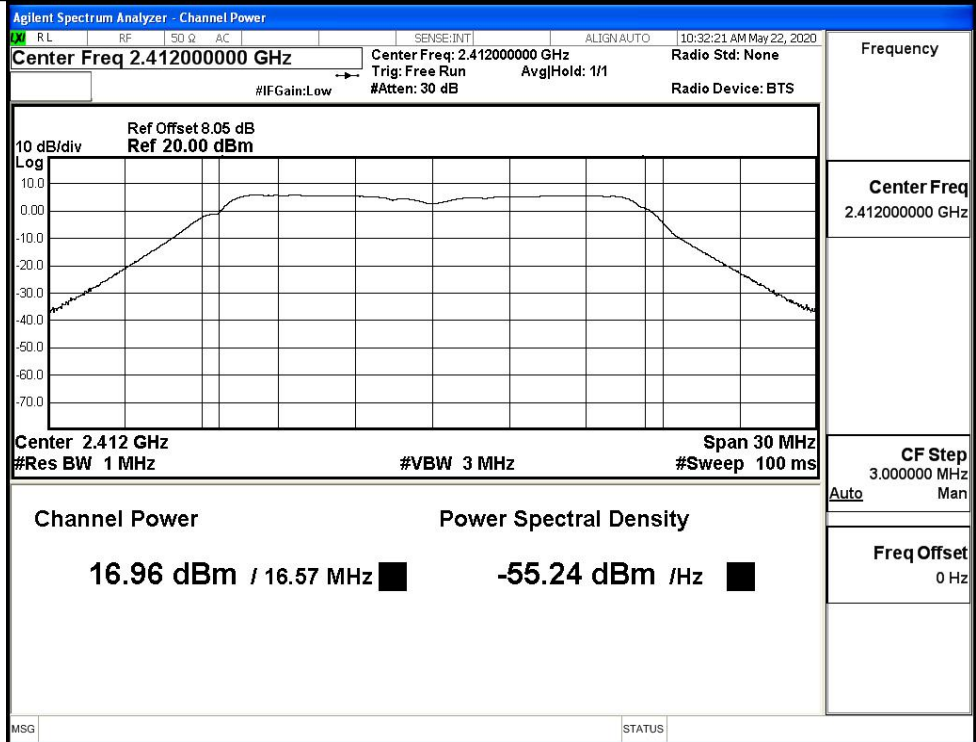
11B/MCH



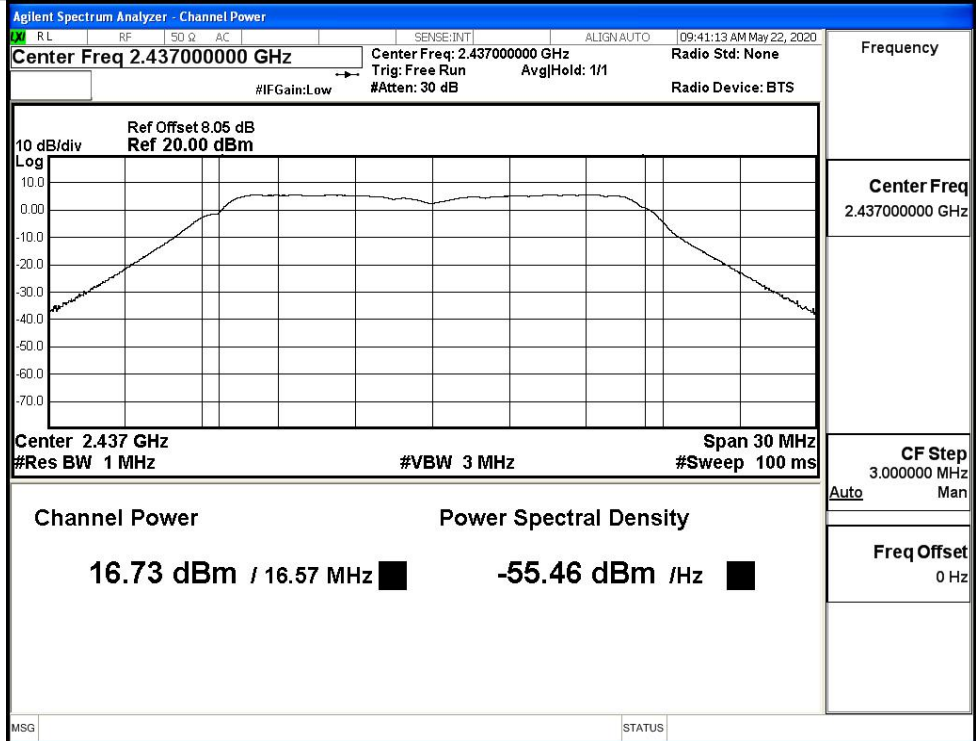
11B/HCH



11G/LCH

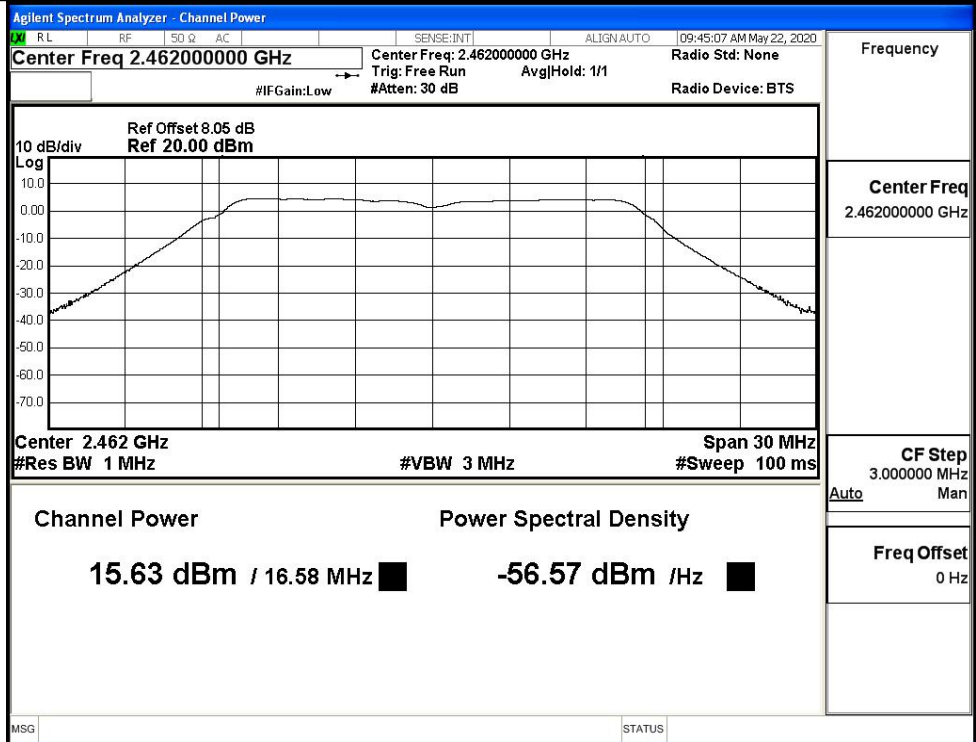


11G/MCH



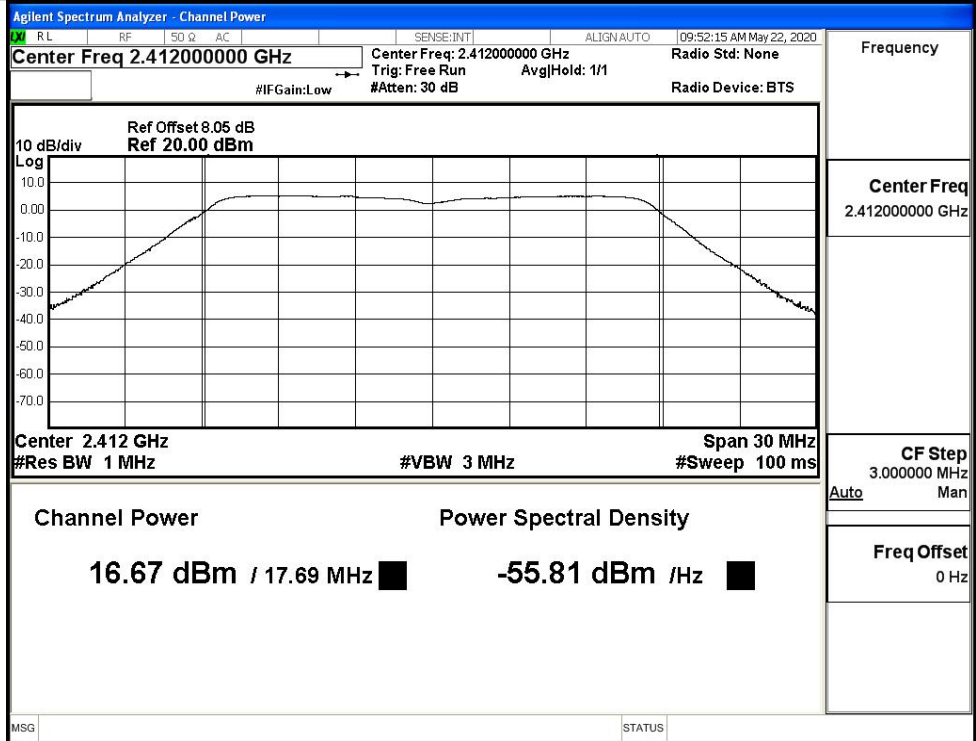
| | |
|-------------|--------------------------|
| Frequency | 2.43700000 GHz |
| Center Freq | 2.43700000 GHz |
| CF Step | 3.000000 MHz Auto Man |
| Freq Offset | 0 Hz |

11G/HCH

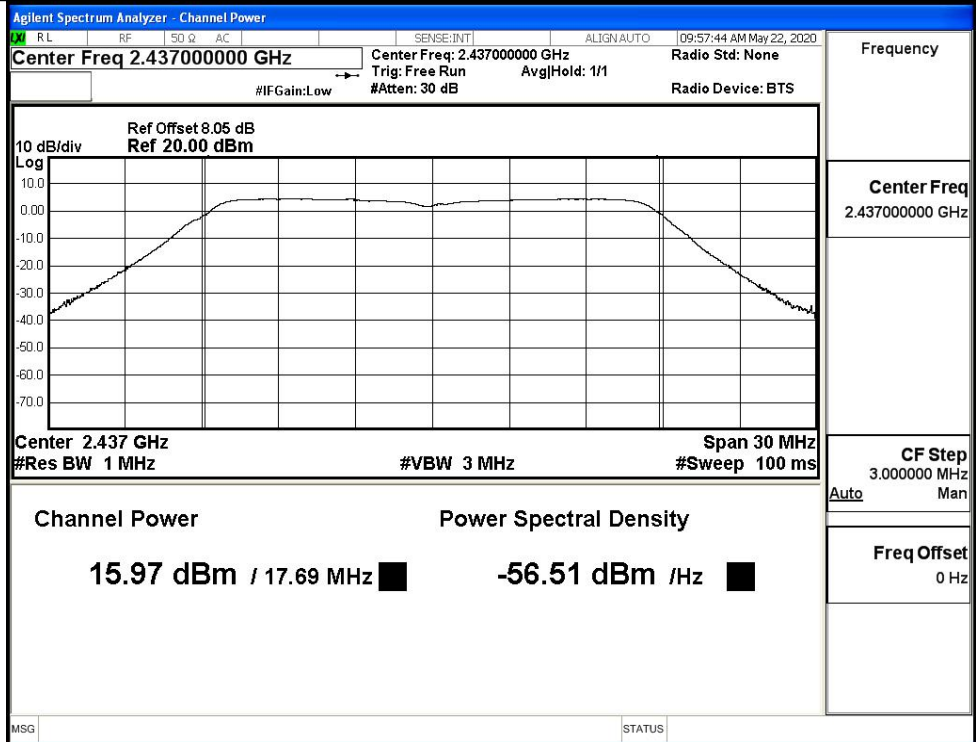


| | |
|-------------|--------------------------|
| Frequency | 2.46200000 GHz |
| Center Freq | 2.46200000 GHz |
| CF Step | 3.000000 MHz Auto Man |
| Freq Offset | 0 Hz |

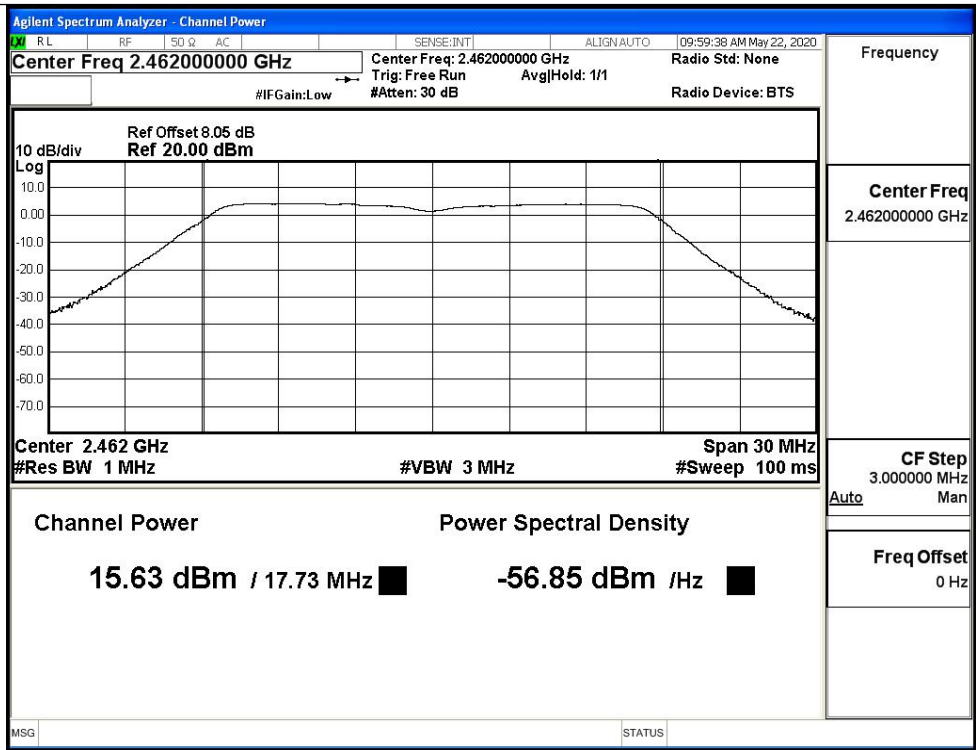
11N20SISO/LCH



11N20SISO/MCH

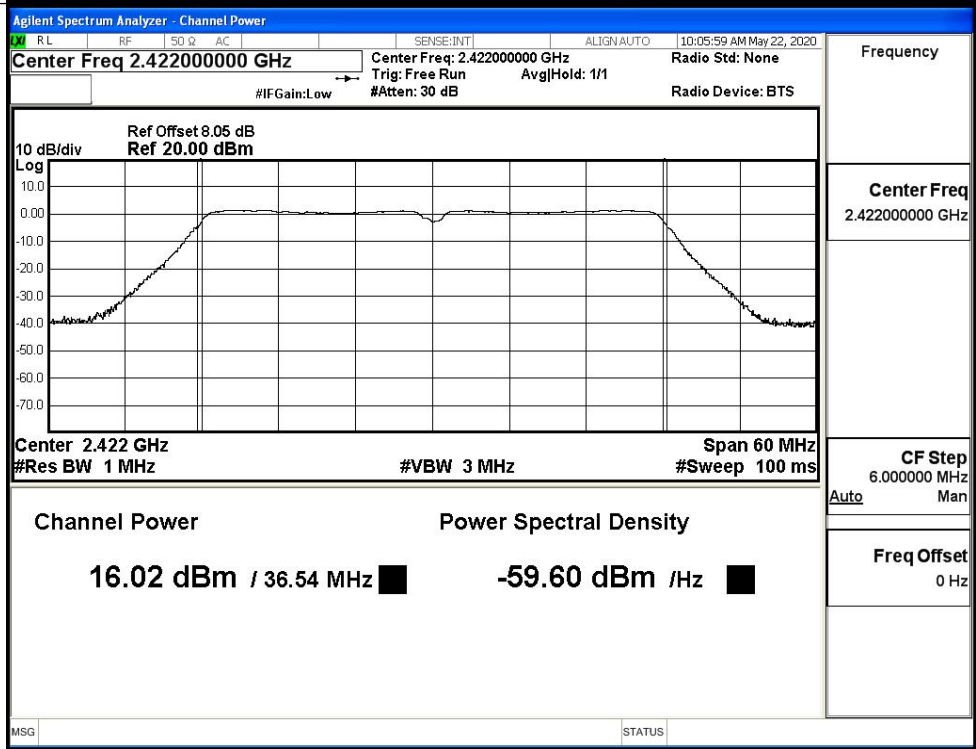


11N20SISO/HCH



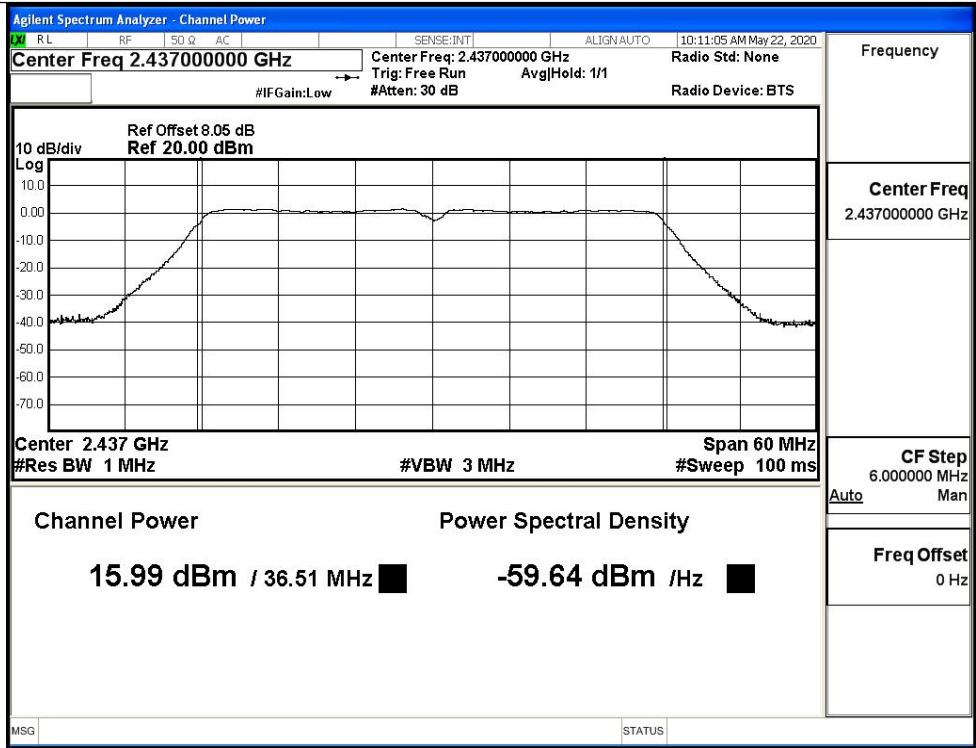
| | |
|-------------|--------------------------|
| Frequency | 2.46200000 GHz |
| Center Freq | 2.46200000 GHz |
| CF Step | 3.000000 MHz Auto Man |
| Freq Offset | 0 Hz |

11N40SISO/LCH

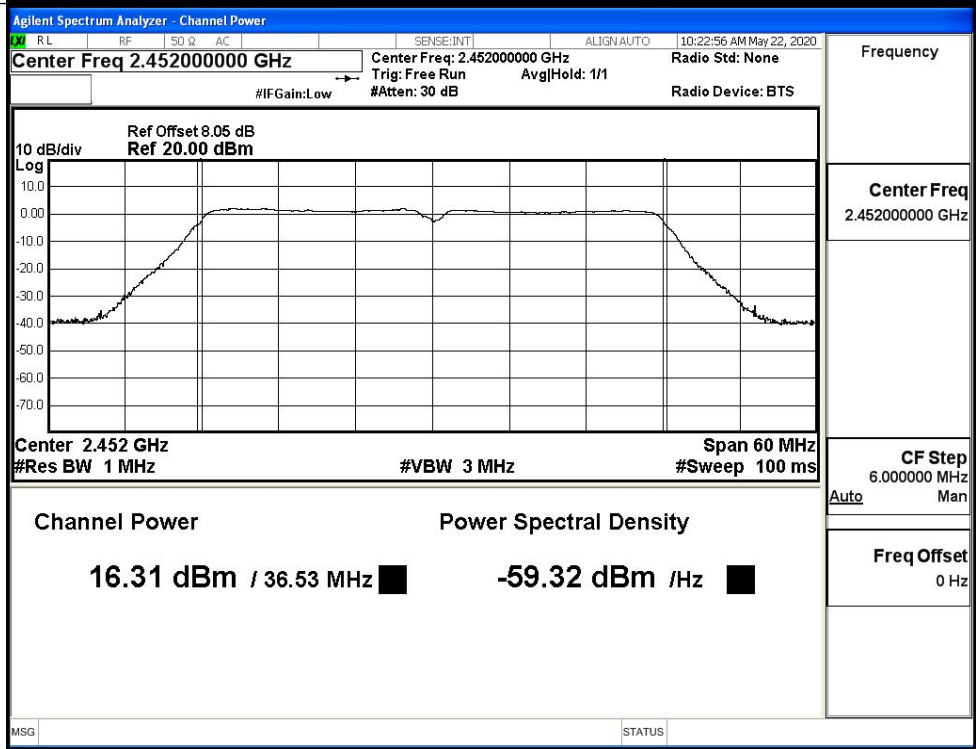


| | |
|-------------|--------------------------|
| Frequency | 2.42200000 GHz |
| Center Freq | 2.42200000 GHz |
| CF Step | 6.000000 MHz Auto Man |
| Freq Offset | 0 Hz |

11N40SISO/MCH



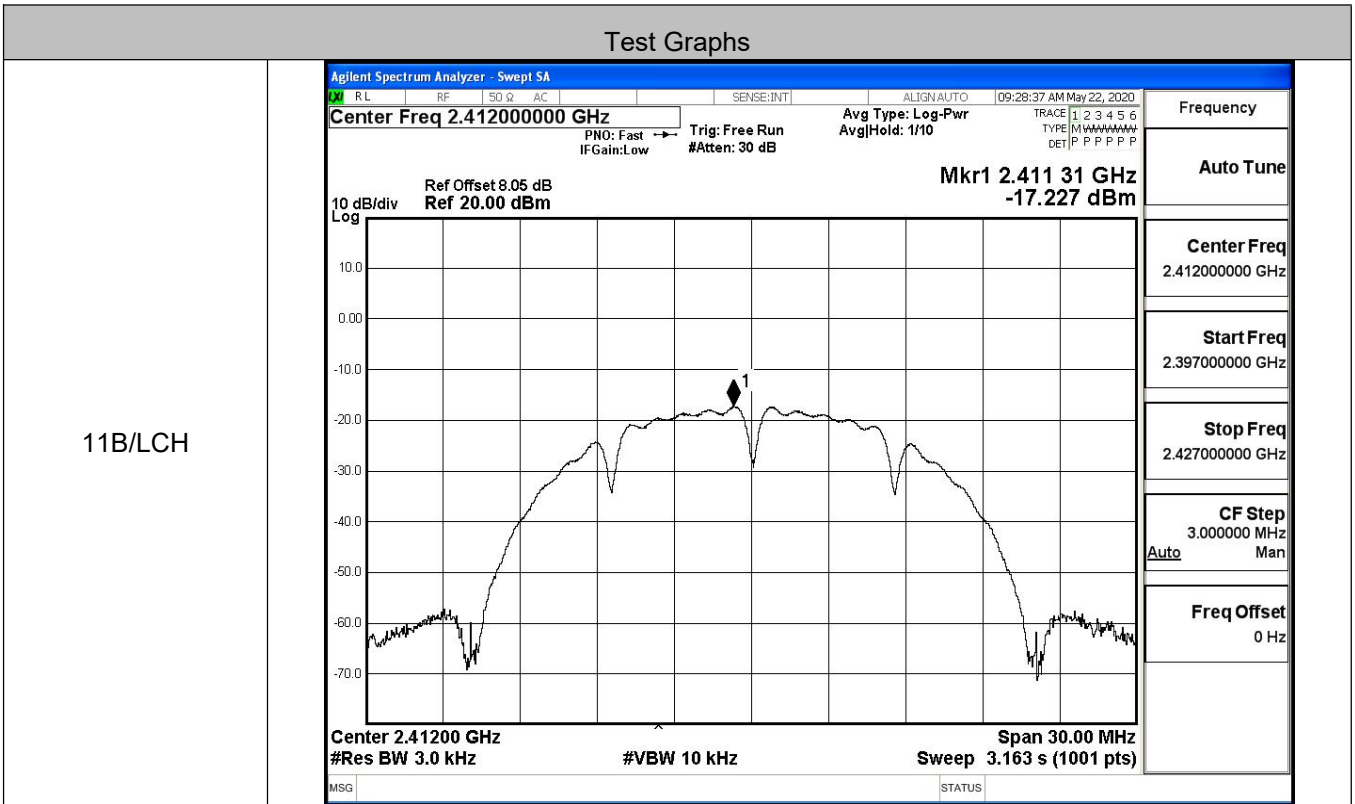
11N40SISO/HCH



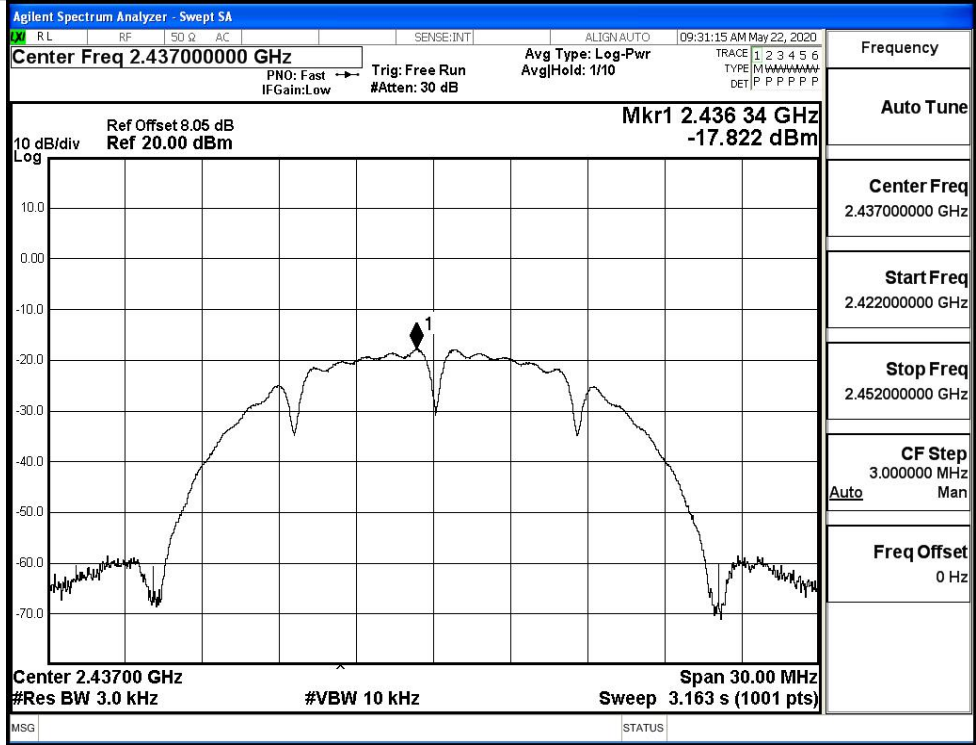
A.3 Maximum Power Spectral Density

| Mode | Channel | Meas.Level [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-----------|---------|-----------------------|------------------|---------|
| 11B | LCH | -17.227 | 8 | PASS |
| | MCH | -17.822 | 8 | PASS |
| | HCH | -18.445 | 8 | PASS |
| 11G | LCH | -16.803 | 8 | PASS |
| | MCH | -19.975 | 8 | PASS |
| | HCH | -21.222 | 8 | PASS |
| 11N20SISO | LCH | -19.647 | 8 | PASS |
| | MCH | -20.092 | 8 | PASS |
| | HCH | -20.340 | 8 | PASS |
| 11N40SISO | LCH | -21.604 | 8 | PASS |
| | MCH | -23.984 | 8 | PASS |
| | HCH | -23.665 | 8 | PASS |

Test Graphs

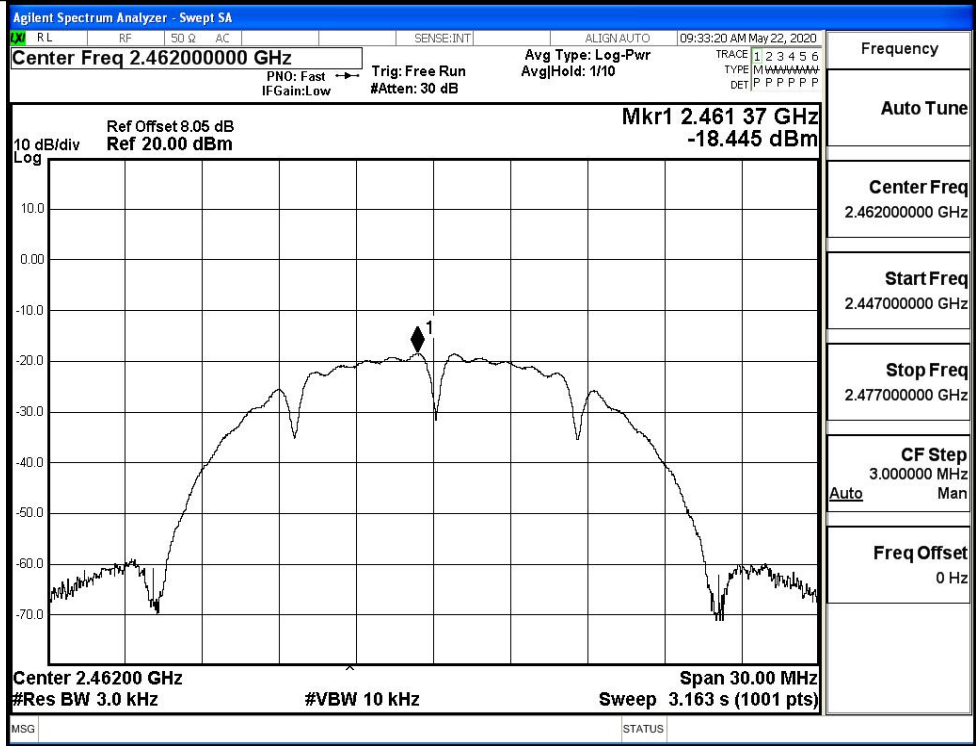


11B/MCH



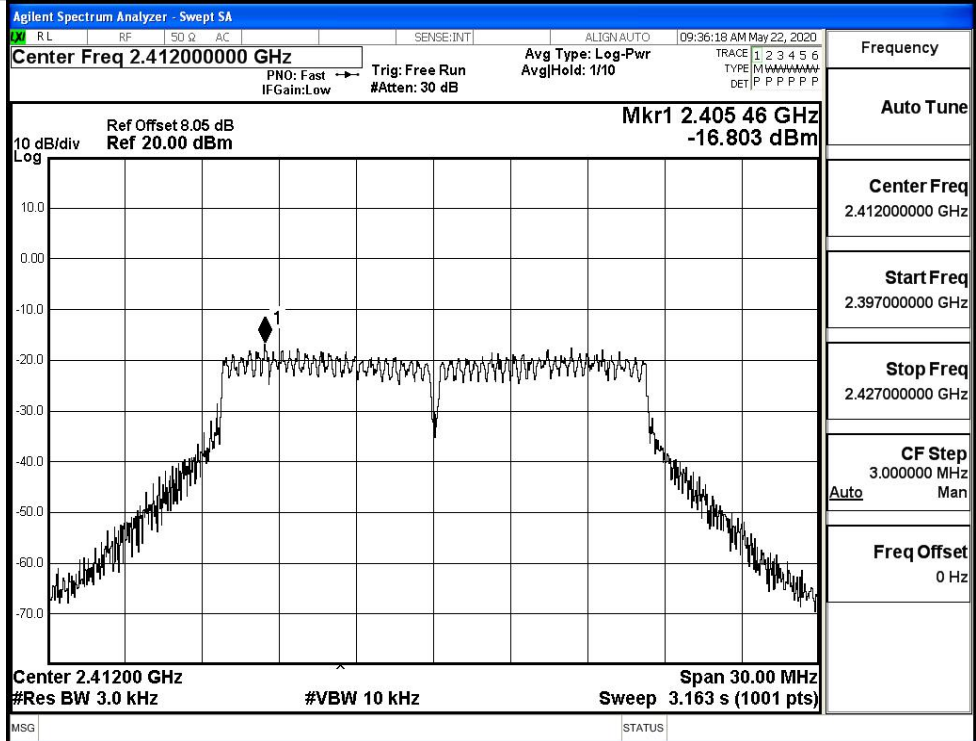
| |
|-------------------------------------|
| Frequency |
| Auto Tune |
| Center Freq 2.437000000 GHz |
| Start Freq 2.422000000 GHz |
| Stop Freq 2.452000000 GHz |
| CF Step 3.000000 MHz Auto Man |
| Freq Offset 0 Hz |

11B/HCH

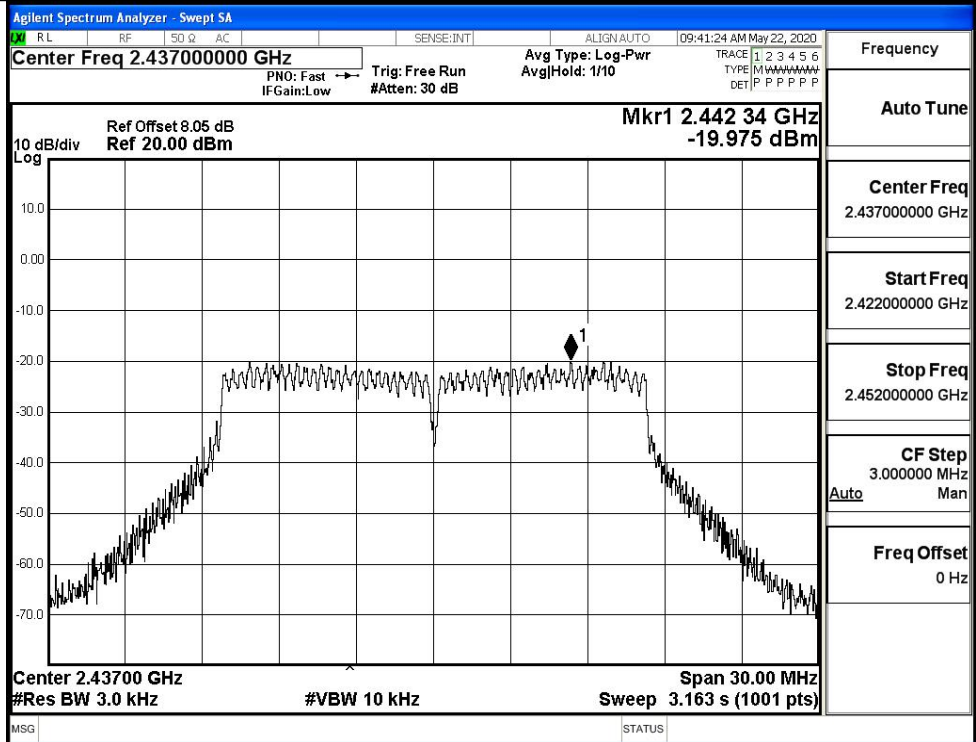


| |
|-------------------------------------|
| Frequency |
| Auto Tune |
| Center Freq 2.462000000 GHz |
| Start Freq 2.447000000 GHz |
| Stop Freq 2.477000000 GHz |
| CF Step 3.000000 MHz Auto Man |
| Freq Offset 0 Hz |

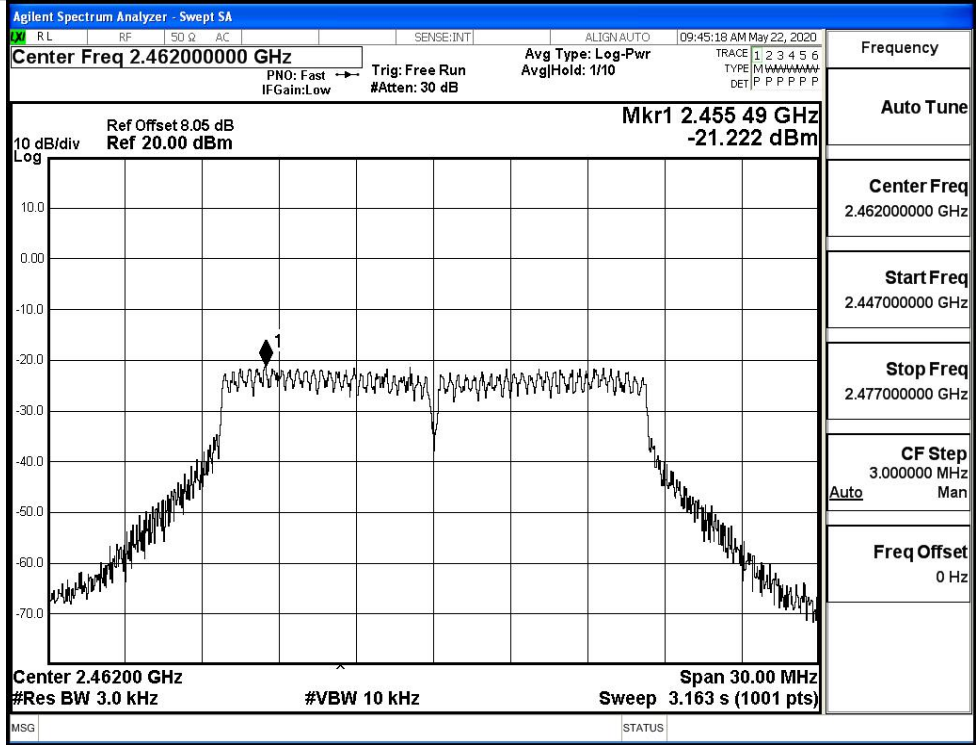
11G/LCH



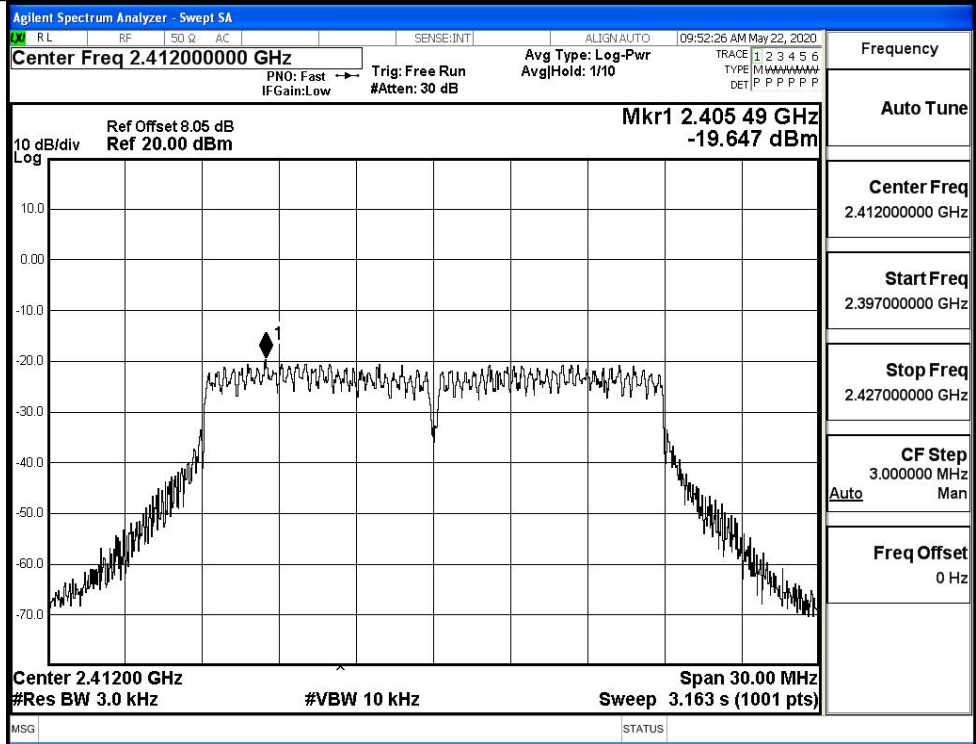
11G/MCH



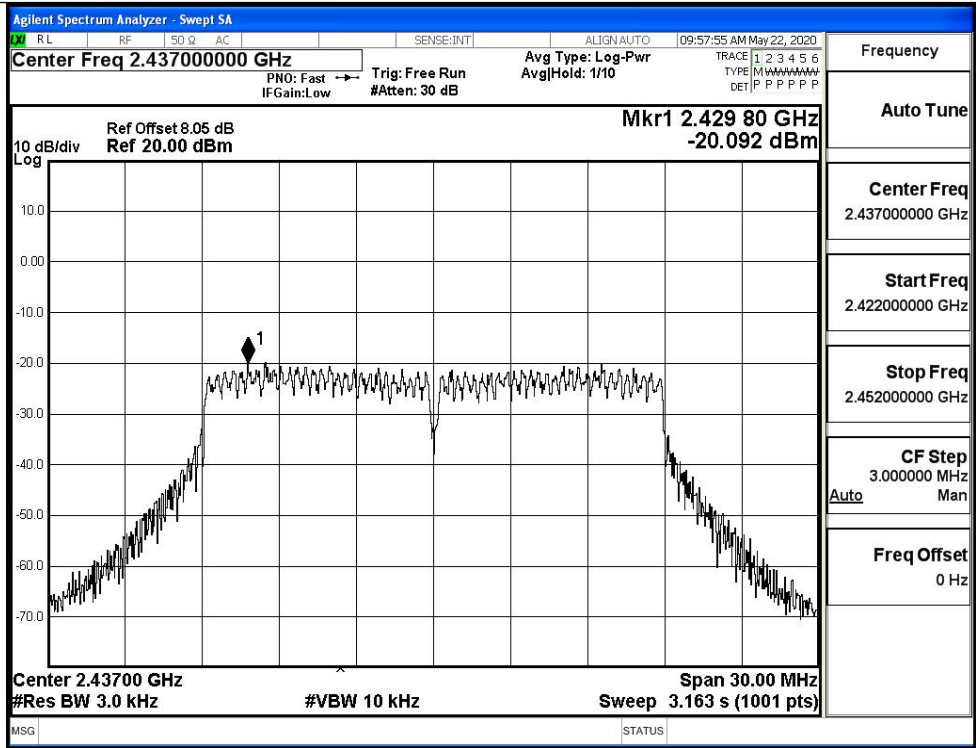
11G/HCH



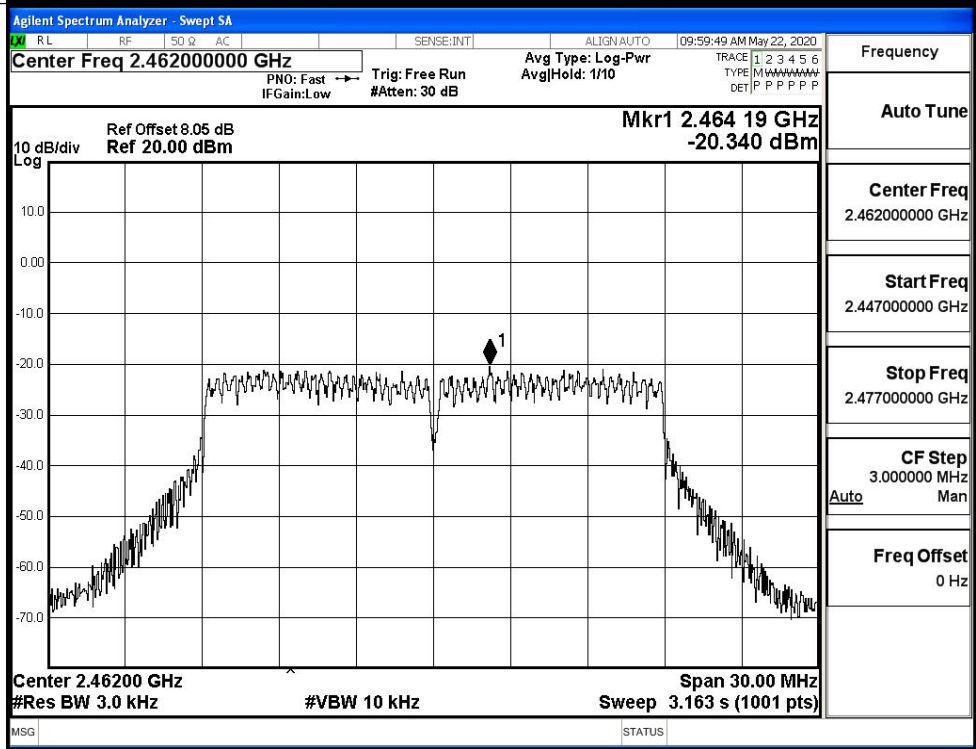
11N20SISO/LCH



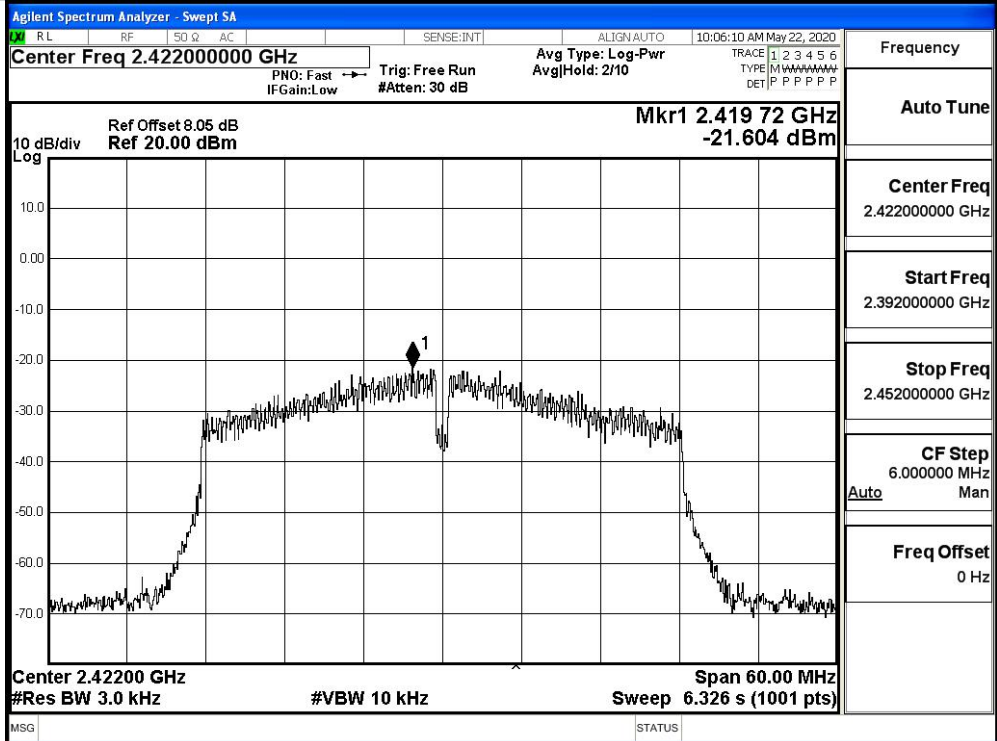
11N20SISO/MCH



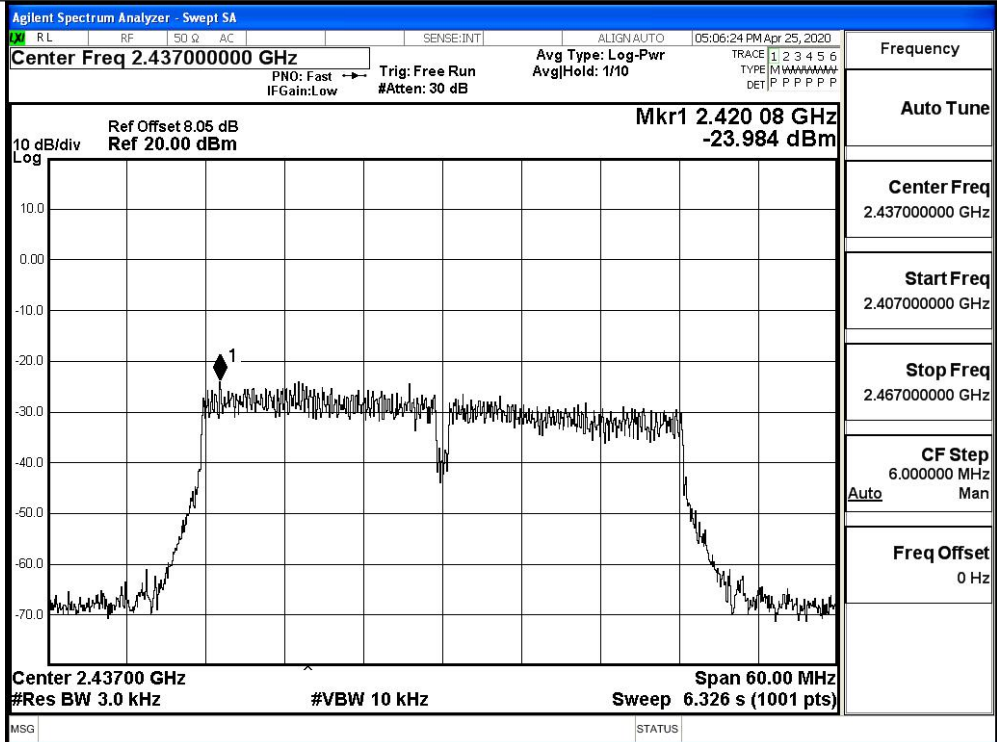
11N20SISO/HCH



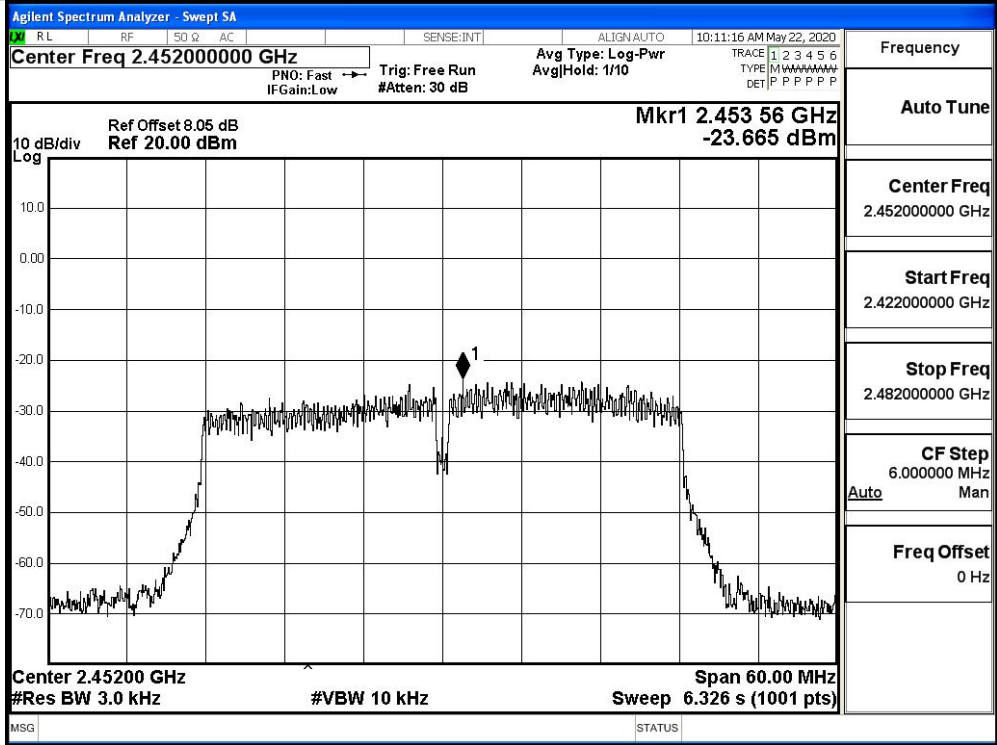
11N40SISO/LCH



11N40SISO/MCH

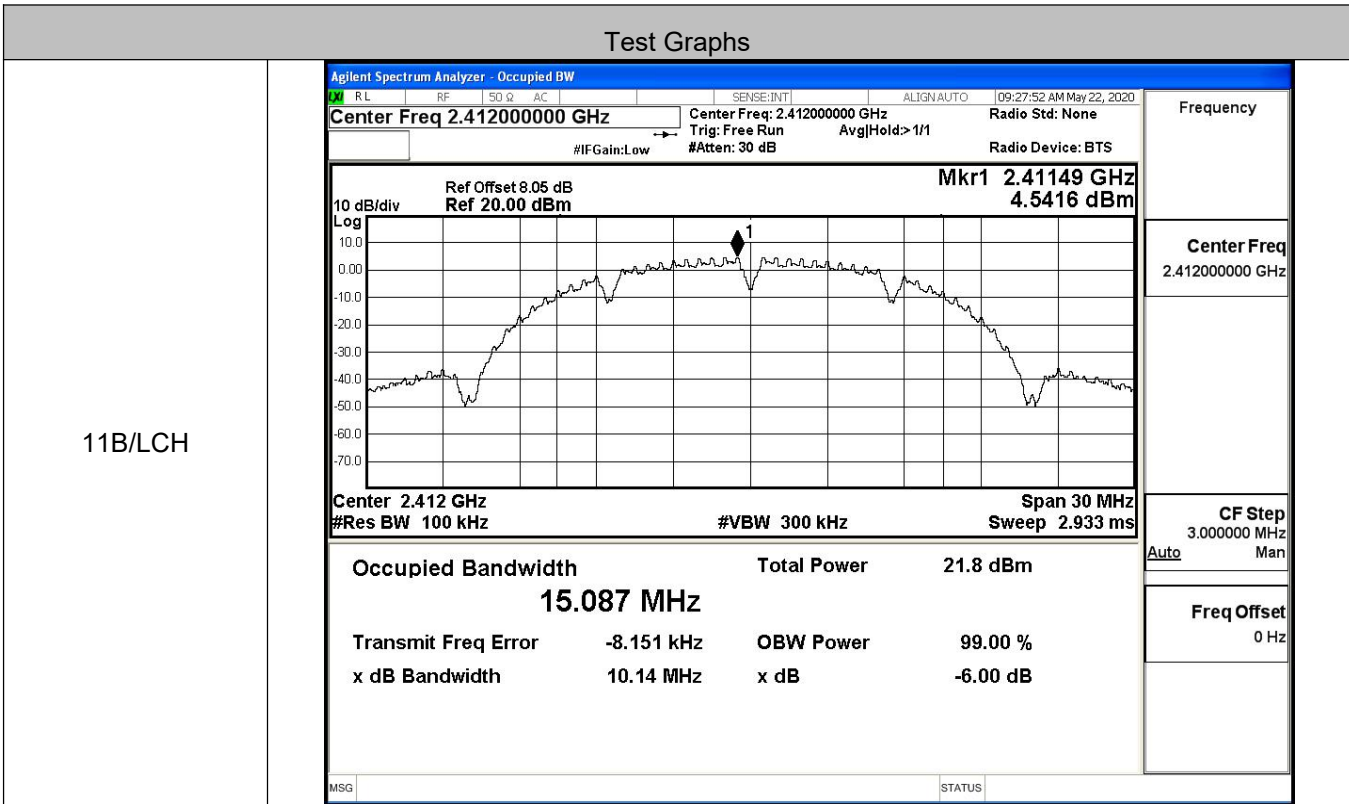


11N40SISO/HCH

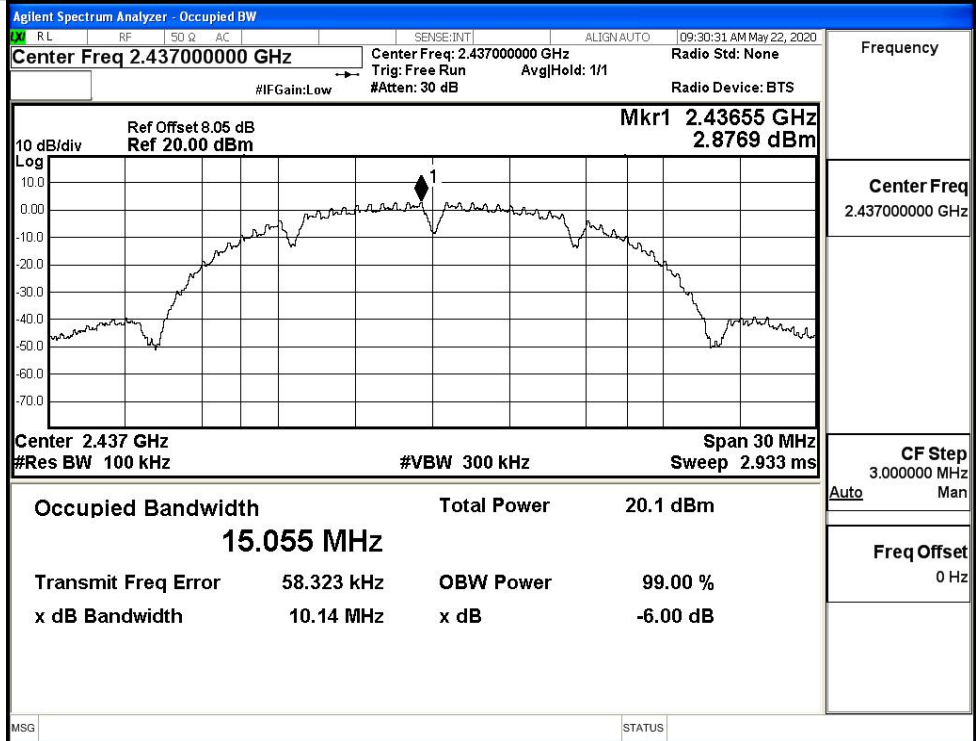


A.4 6dB Bandwidth

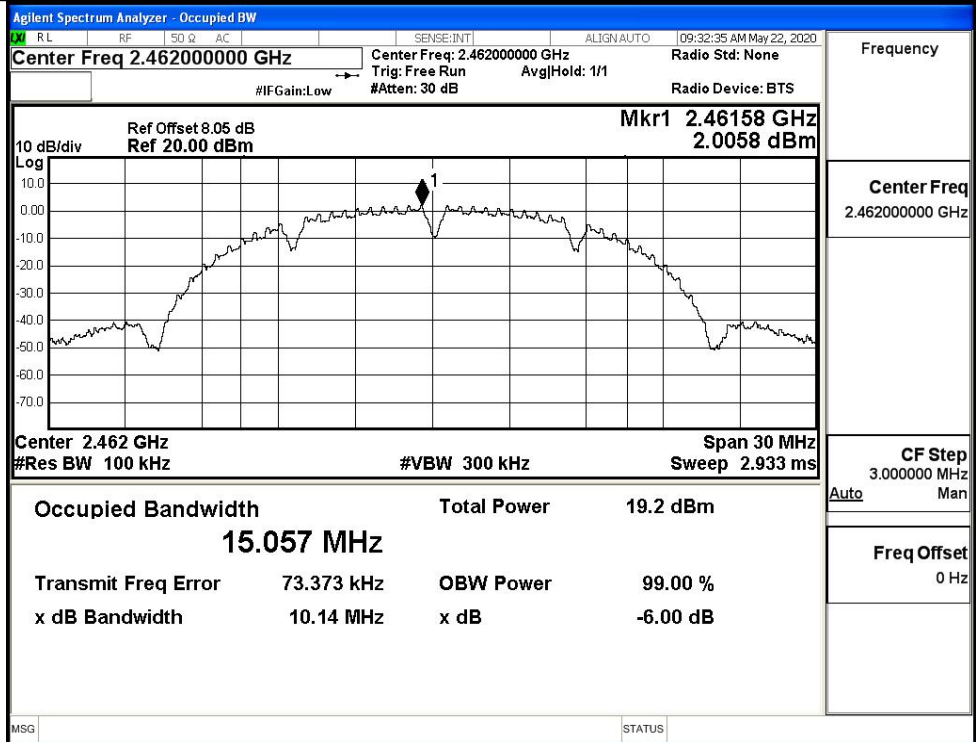
| Mode | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-----------|---------|---------------------|-------------|---------|
| 11B | LCH | 10.14 | ≥0.5 | PASS |
| | MCH | 10.14 | ≥0.5 | PASS |
| | HCH | 10.14 | ≥0.5 | PASS |
| 11G | LCH | 16.57 | ≥0.5 | PASS |
| | MCH | 16.57 | ≥0.5 | PASS |
| | HCH | 16.58 | ≥0.5 | PASS |
| 11N20SISO | LCH | 17.69 | ≥0.5 | PASS |
| | MCH | 17.69 | ≥0.5 | PASS |
| | HCH | 17.73 | ≥0.5 | PASS |
| 11N40SISO | LCH | 36.54 | ≥0.5 | PASS |
| | MCH | 36.51 | ≥0.5 | PASS |
| | HCH | 36.53 | ≥0.5 | PASS |



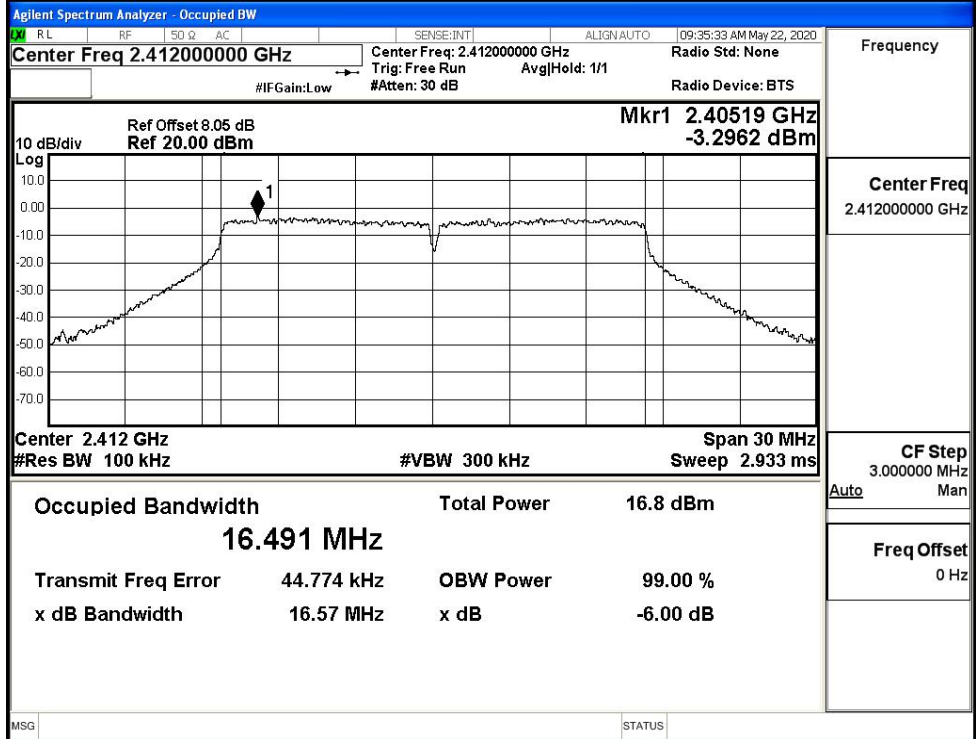
11B/MCH



11B/HCH

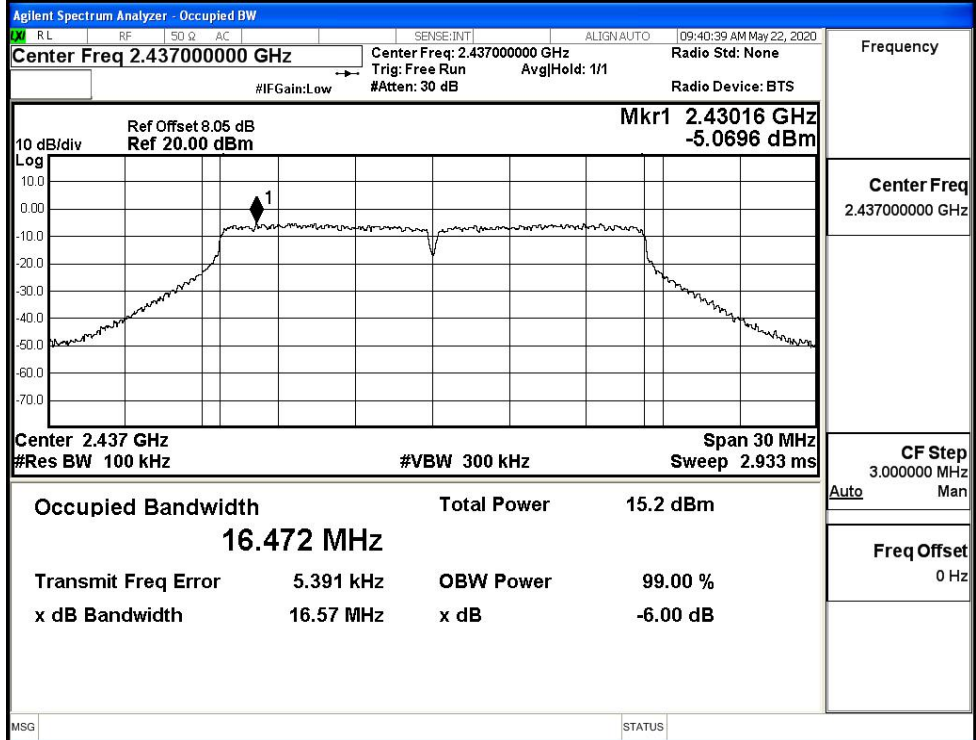


11G/LCH



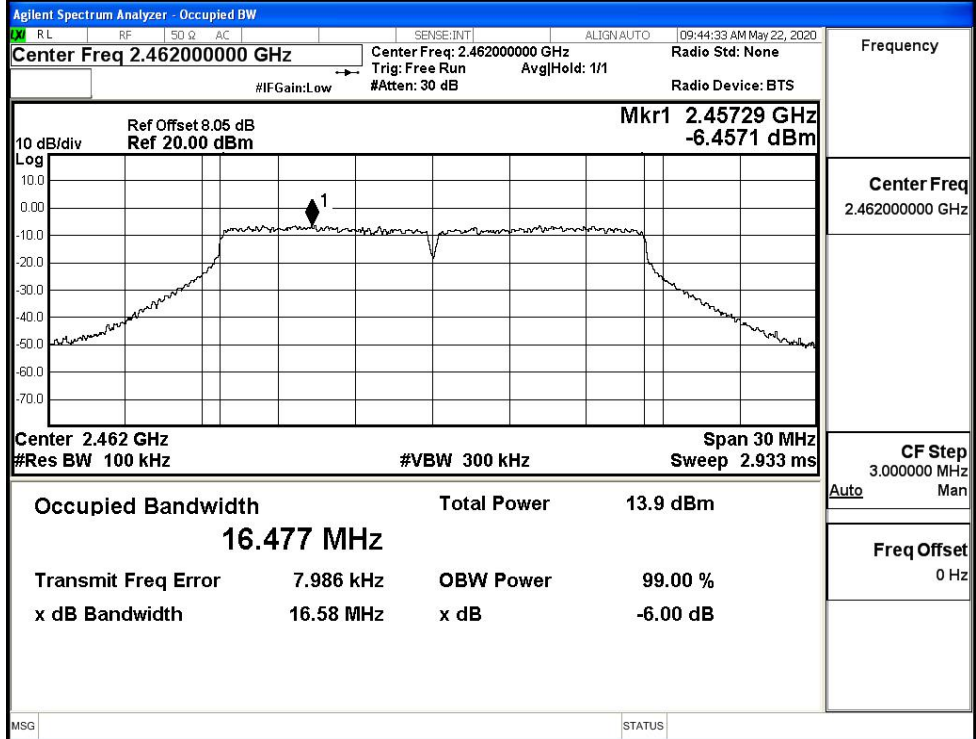
| | |
|-------------|----------------|
| Frequency | 2.41200000 GHz |
| Center Freq | 2.41200000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11G/MCH



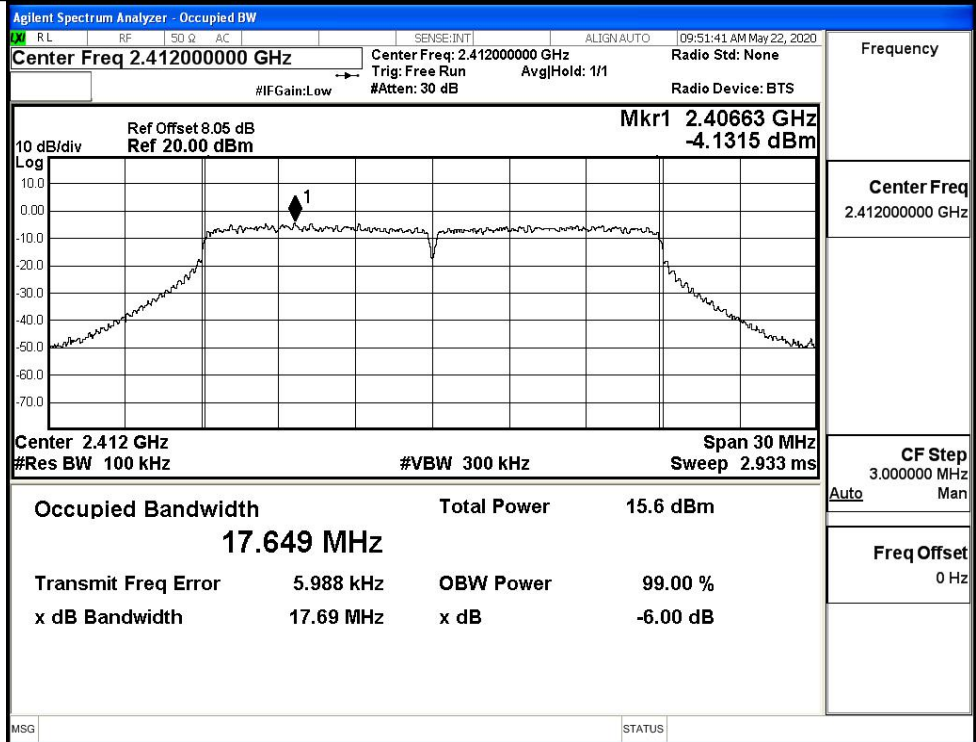
| | |
|-------------|----------------|
| Frequency | 2.43700000 GHz |
| Center Freq | 2.43700000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11G/HCH



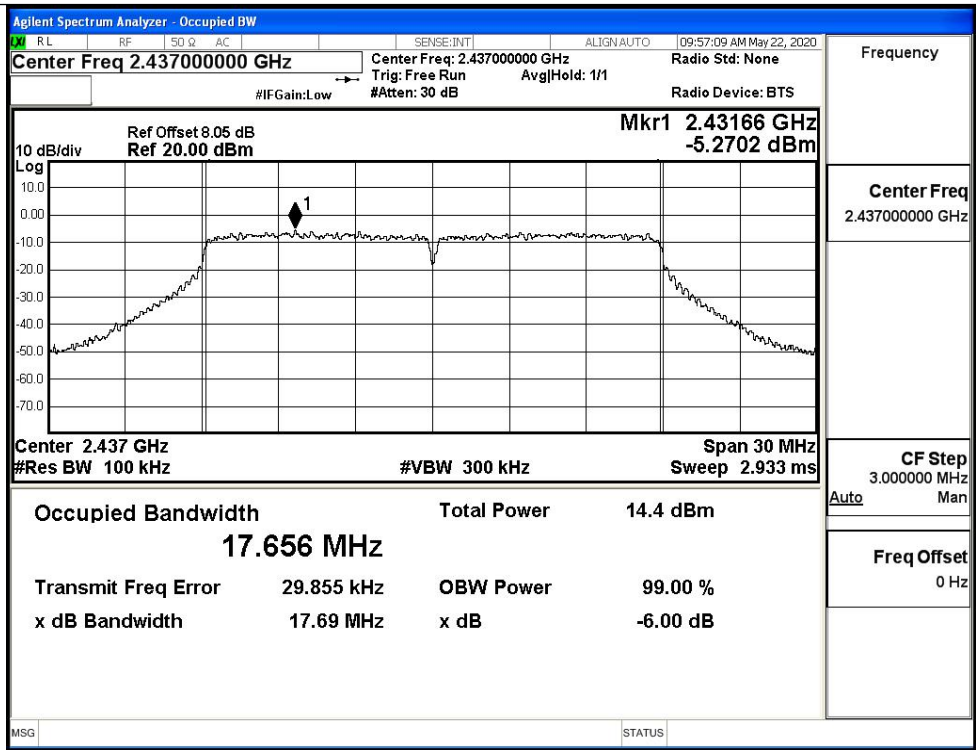
| | |
|-------------|----------------|
| Frequency | 2.46200000 GHz |
| Center Freq | 2.46200000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N20SISO/LCH



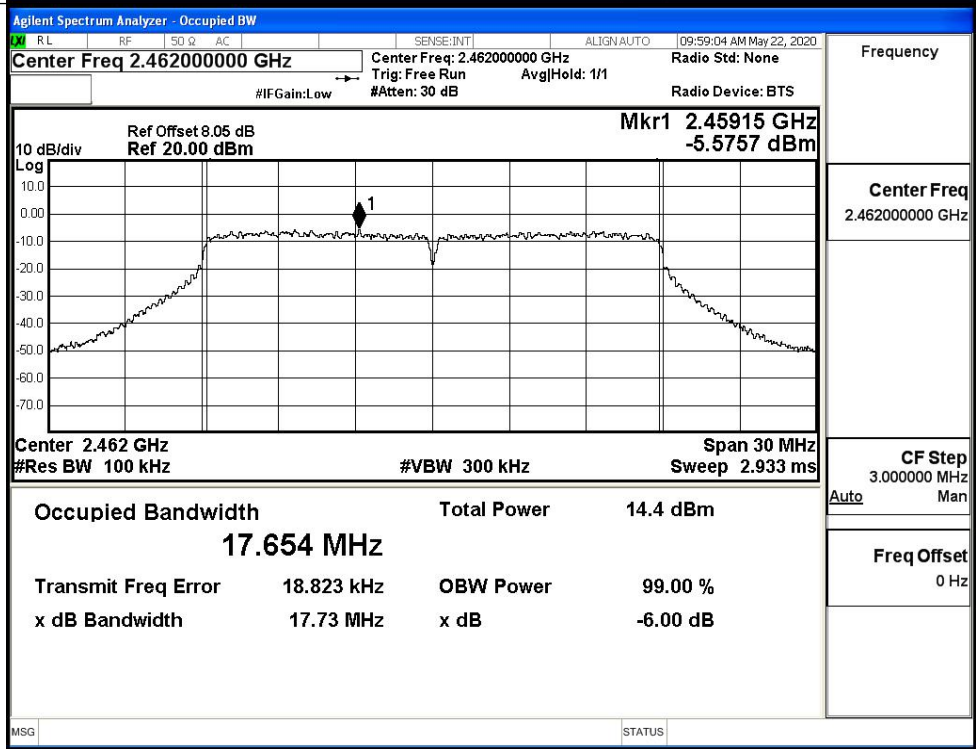
| | |
|-------------|----------------|
| Frequency | 2.41200000 GHz |
| Center Freq | 2.41200000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N20SISO/MCH



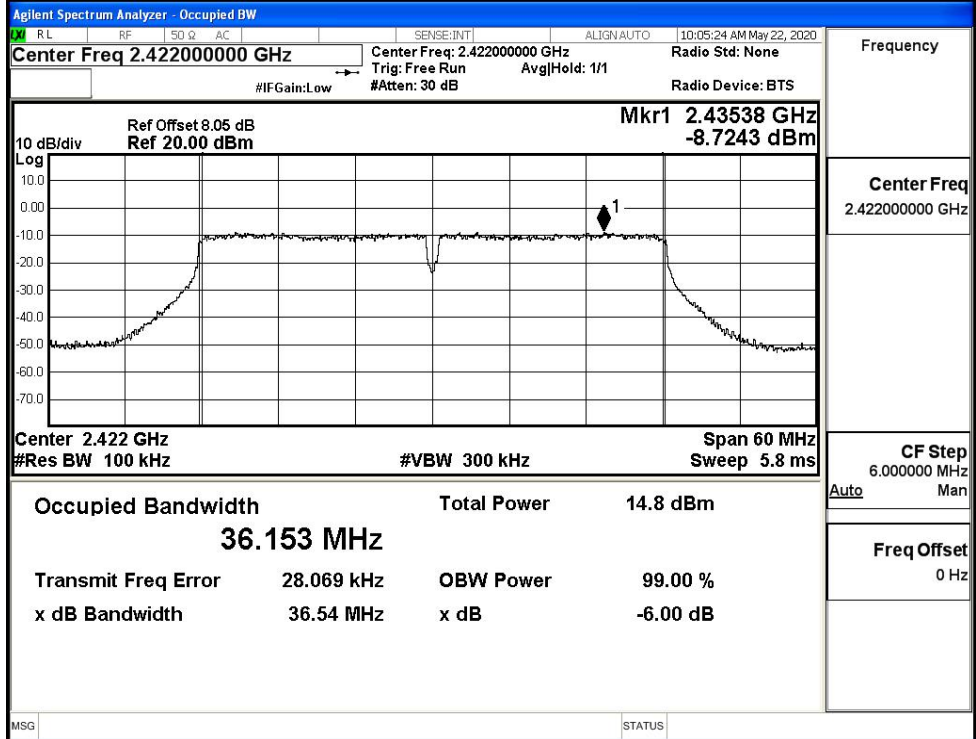
| | |
|-------------|----------------|
| Frequency | 2.43700000 GHz |
| Center Freq | 2.43700000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N20SISO/HCH



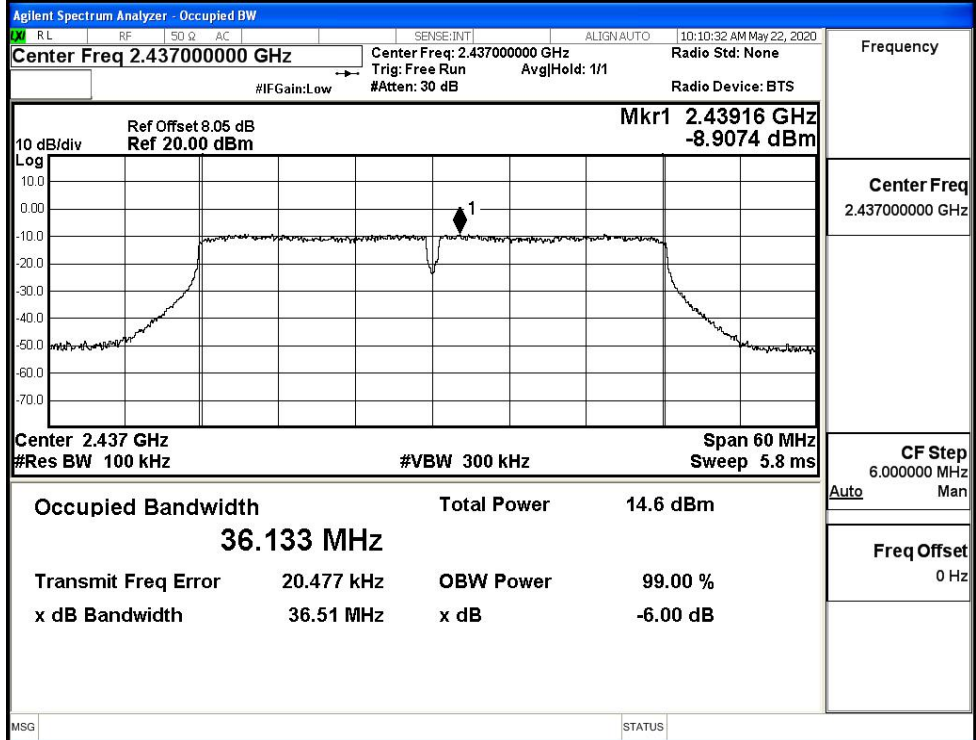
| | |
|-------------|----------------|
| Frequency | 2.46200000 GHz |
| Center Freq | 2.46200000 GHz |
| CF Step | 3.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N40SISO/LCH



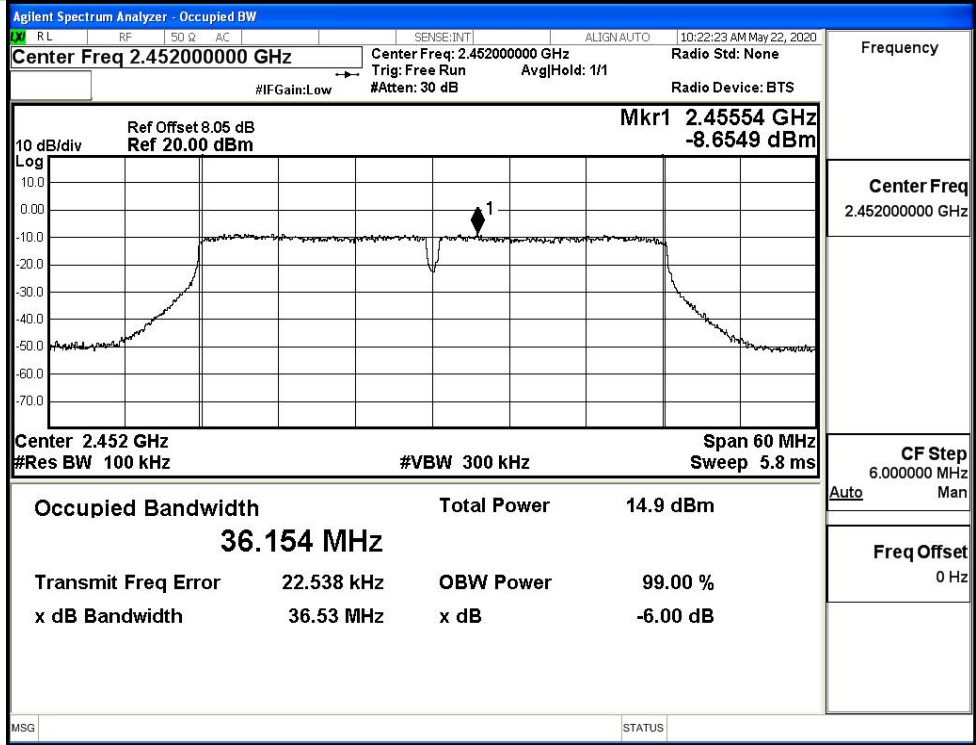
| | |
|-------------|----------------|
| Frequency | 2.42200000 GHz |
| Center Freq | 2.42200000 GHz |
| CF Step | 6.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N40SISO/MCH



| | |
|-------------|----------------|
| Frequency | 2.43700000 GHz |
| Center Freq | 2.43700000 GHz |
| CF Step | 6.000000 MHz |
| Auto | Man |
| Freq Offset | 0 Hz |

11N40SISO/HCH

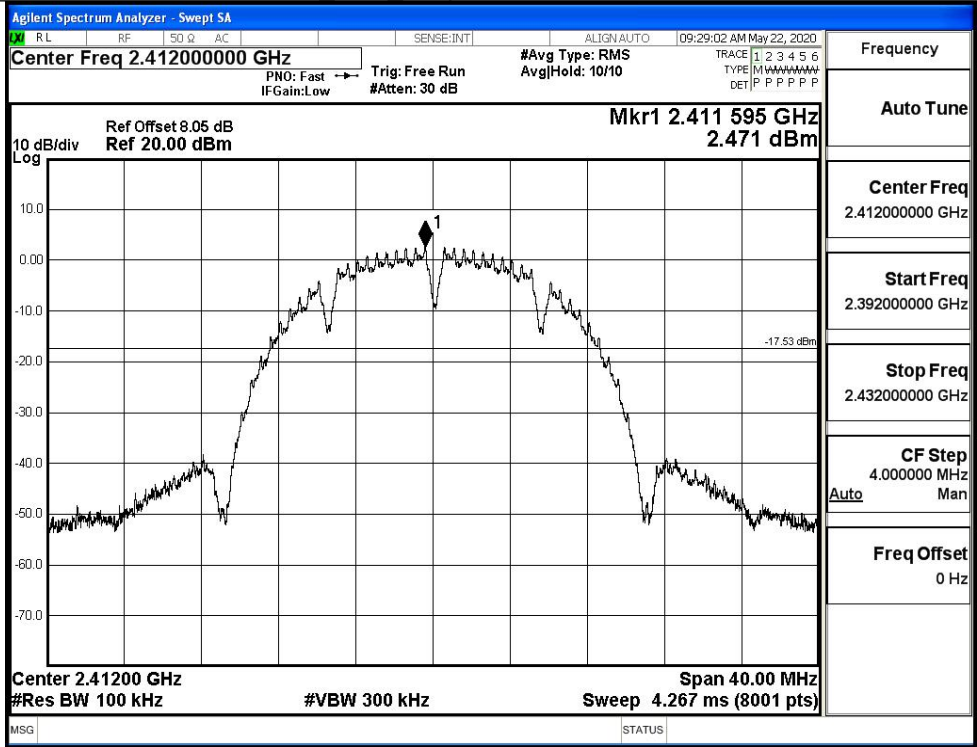


A.5 RF Conducted Spurious Emissions

| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|------------|------------------|-------------|---------|
| 11B | LCH | 2.471 | -38.349 | -17.529 | PASS |
| | MCH | 2.142 | -37.683 | -17.858 | PASS |
| | HCH | 1.54 | -38.287 | -18.460 | PASS |
| 11G | LCH | -3.375 | -38.360 | -23.375 | PASS |
| | MCH | -6.079 | -37.991 | -26.079 | PASS |
| | HCH | -5.983 | -37.825 | -25.983 | PASS |
| 11N20 SISO | LCH | -5.633 | -37.833 | -25.633 | PASS |
| | MCH | -5.284 | -37.101 | -25.284 | PASS |
| | HCH | -5.687 | -38.364 | -25.687 | PASS |
| 11N40 SISO | LCH | -9.334 | -38.410 | -29.334 | PASS |
| | MCH | -9.142 | -37.880 | -29.142 | PASS |
| | HCH | -8.838 | -37.829 | -28.838 | PASS |

11B LCH Graphs

Pref/11B/LCH



Puw/11B/LCH

