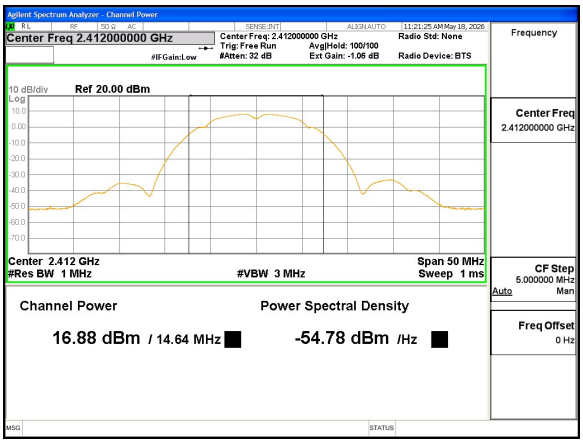
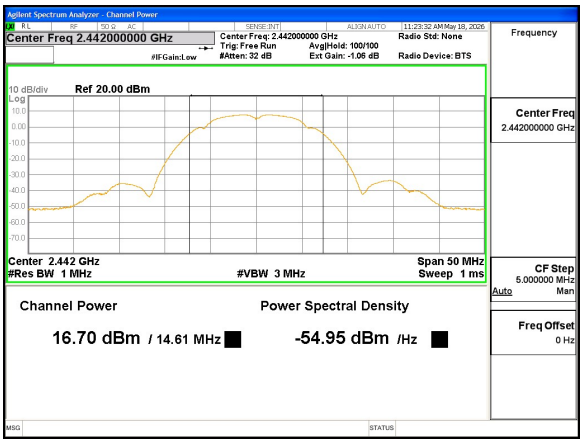
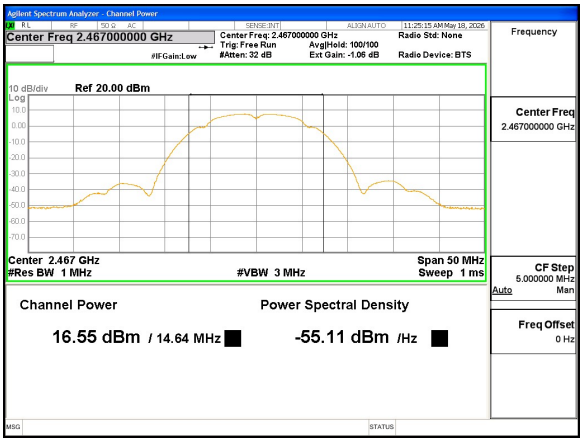
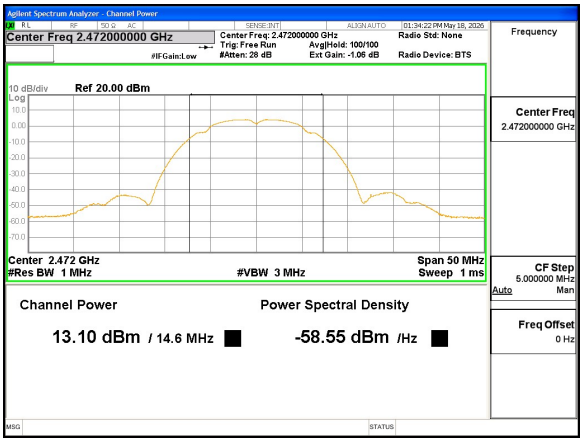
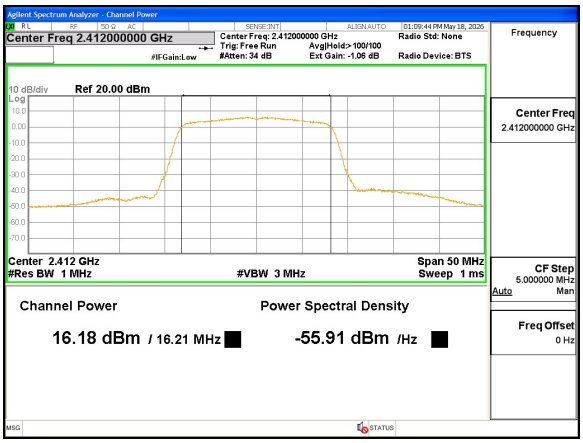

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.412000000 GHz
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 32 dB
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.412 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
16.88 dBm / 14.64 MHz
Power Spectral Density
-54.78 dBm /Hz
Frequency
Center Freq
2.412000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

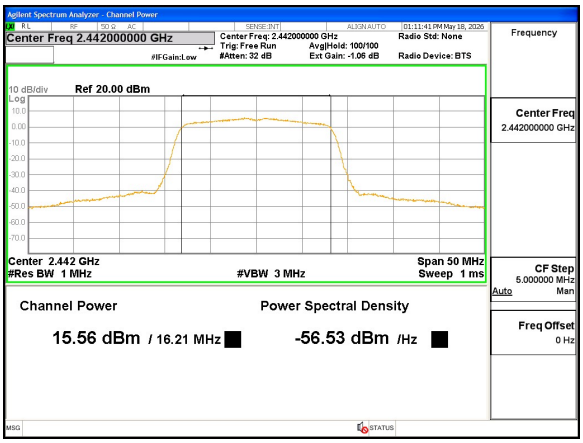

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.442000000 GHz
Center Freq: 2.442000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 32 dB
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.442 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
16.70 dBm / 14.61 MHz
Power Spectral Density
-54.95 dBm /Hz
Frequency
Center Freq
2.442000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

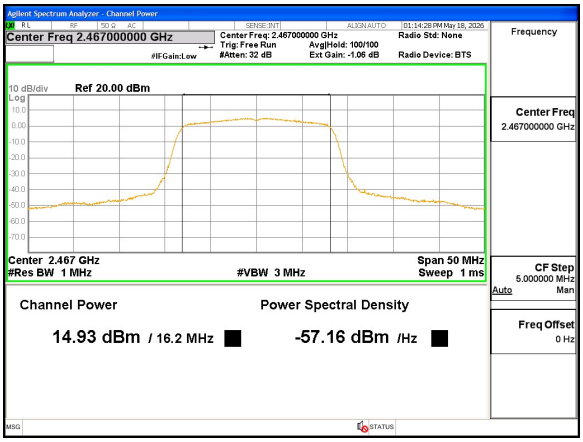

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.467000000 GHz
Center Freq: 2.467000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 32 dB
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.467 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
16.55 dBm / 14.64 MHz
Power Spectral Density
-55.11 dBm /Hz
Frequency
Center Freq
2.467000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

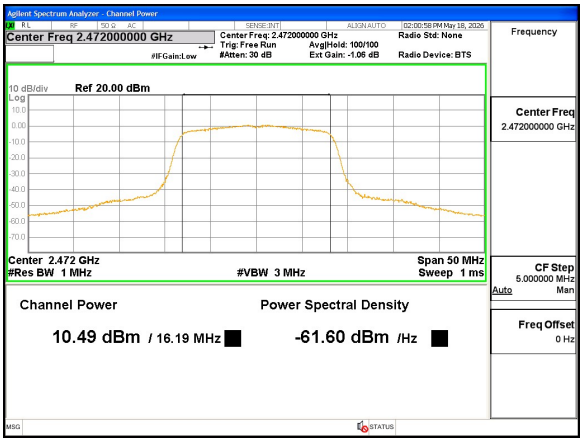

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.472000000 GHz
Center Freq: 2.472000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 28 dB
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.472 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
13.10 dBm / 14.6 MHz
Power Spectral Density
-58.55 dBm /Hz
Frequency
Center Freq
2.472000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

ANT1, 802.11b

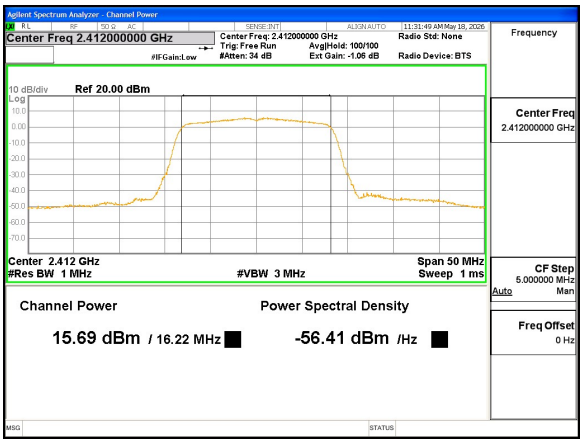

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.412000000 GHz
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 34 dB
Avg|Hold:>100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Channel Power
16.18 dBm / 16.21 MHz
Power Spectral Density
-55.91 dBm /Hz
Freq Offset
0 Hz

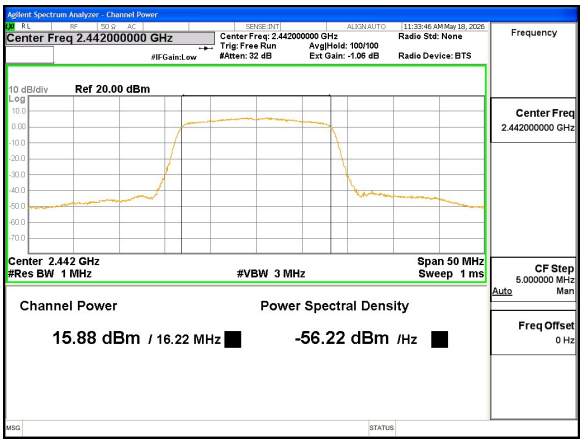

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.442000000 GHz
Center Freq: 2.442000000 GHz
Trig: Free Run
#Atten: 32 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Center Freq
2.442000000 GHz
Center 2.442 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Channel Power
15.56 dBm / 16.21 MHz
Power Spectral Density
-56.53 dBm /Hz
Freq Offset
0 Hz

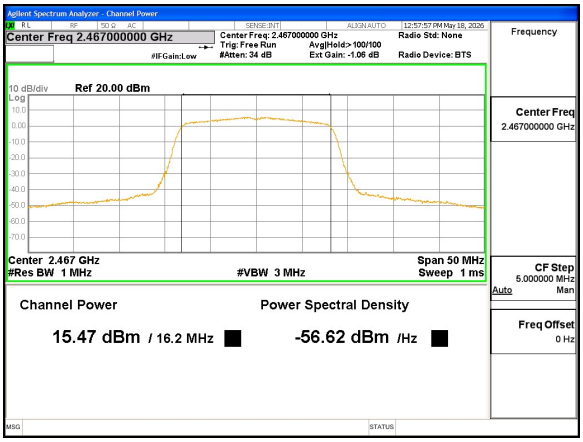

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.467000000 GHz
Center Freq: 2.467000000 GHz
Trig: Free Run
#Atten: 32 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Center Freq
2.467000000 GHz
Center 2.467 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Channel Power
14.93 dBm / 16.2 MHz
Power Spectral Density
-57.16 dBm /Hz
Freq Offset
0 Hz

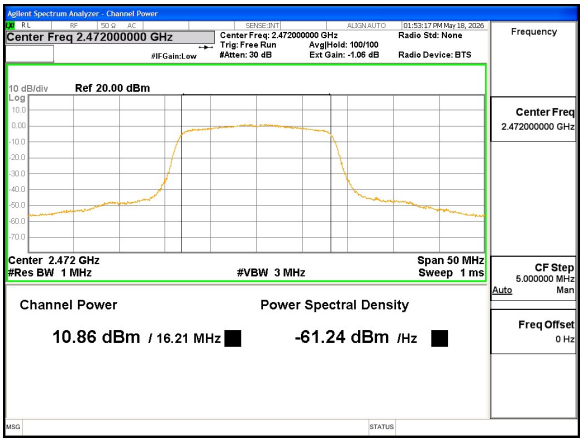

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.472000000 GHz
Center Freq: 2.472000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Center Freq
2.472000000 GHz
Center 2.472 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Channel Power
10.49 dBm / 16.19 MHz
Power Spectral Density
-61.60 dBm /Hz
Freq Offset
0 Hz

ANT0, 802.11g

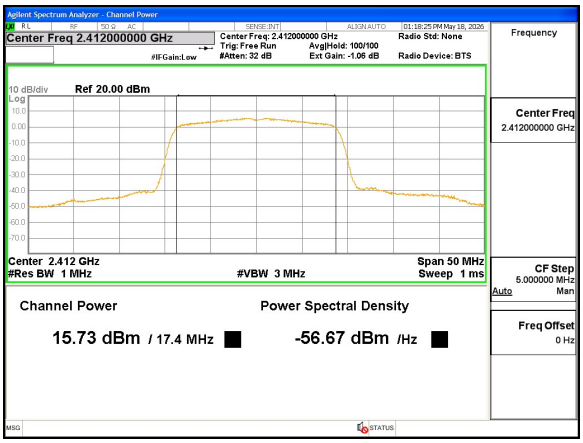

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.412000000 GHz
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 34 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.412 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
15.69 dBm / 16.22 MHz
Power Spectral Density
-56.41 dBm /Hz
Frequency
Center Freq
2.412000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

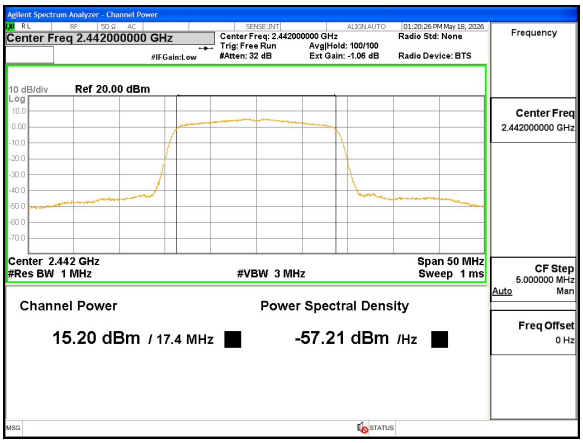

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.442000000 GHz
Center Freq: 2.442000000 GHz
Trig: Free Run
#Atten: 32 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.442 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
15.88 dBm / 16.22 MHz
Power Spectral Density
-56.22 dBm /Hz
Frequency
Center Freq
2.442000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

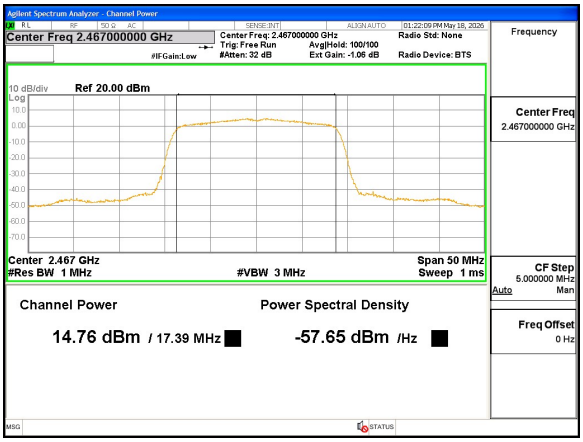

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.467000000 GHz
Center Freq: 2.467000000 GHz
Trig: Free Run
#Atten: 34 dB
Avg|Hold:>100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.467 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
15.47 dBm / 16.2 MHz
Power Spectral Density
-56.62 dBm /Hz
Frequency
Center Freq
2.467000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

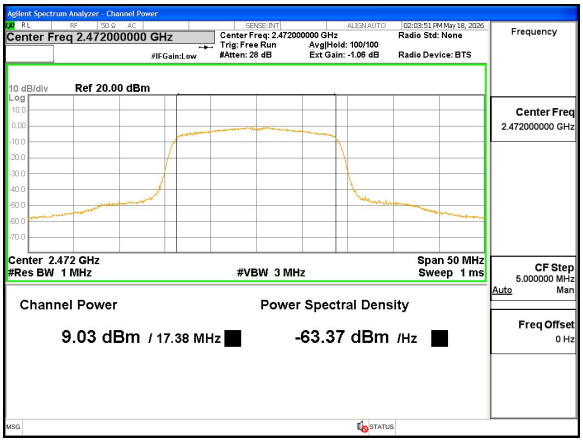

Agilent Spectrum Analyzer - Channel Power
Center Freq 2.472000000 GHz
Center Freq: 2.472000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -1.06 dB
Radio Std: None
Radio Device: BTS
Ref 20.00 dBm
Center 2.472 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 50 MHz
Sweep 1 ms
Channel Power
10.86 dBm / 16.21 MHz
Power Spectral Density
-61.24 dBm /Hz
Frequency
Center Freq
2.472000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

ANT1, 802.11g

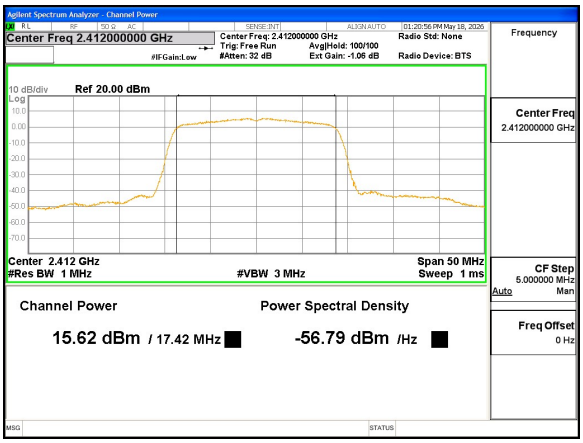


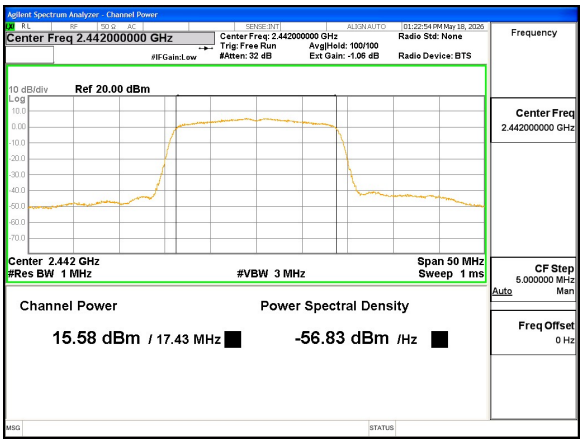


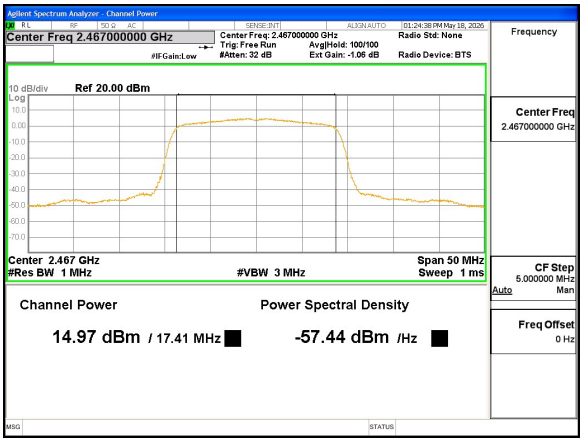


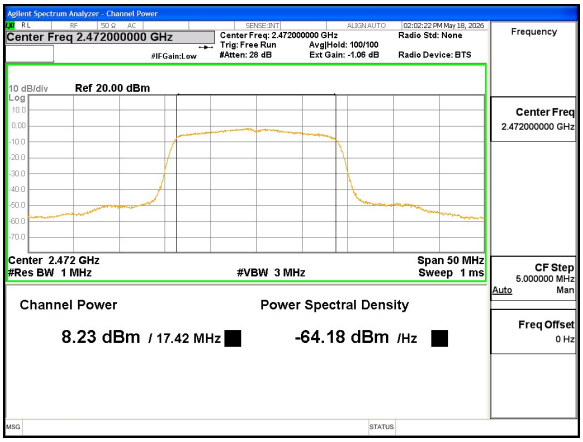


ANT0, 802.11n_HT20









ANT1, 802.11n_HT20

4.3 Transmitter Power Spectral Density

Test Procedures

KDB 558074 - Section 8.4
ANSI C63.10-2020 - Section 11.10.2
KDB 662911 D01, D02 (Multiple Transmitter Output)

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

Test Settings:

Set analyzer center frequency to DTS channel center frequency.

a) span > 1.5 times the DTS bandwidth

b) RBW to 3 kHz ≤ RBW ≤ 100 kHz.

c) VBW ≥ [3 × RBW]

d) Detector = peak.

e) Sweep time = No faster than coupled (auto) time.

f) Trace mode = max hold

g) Allow trace to fully stabilize

h) Use the peak marker function to determine the maximum amplitude level within the RBW.

i) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Limit :

Operating Mode	Mode	ANT Configuration	ANT Gain [dBi]	Limit [dBm]
SISO	802.11b/g/n	ANT0	0.01	8.00
SISO	802.11b/g/n	ANT1	0.68	8.00
MIMO (2TX)	802.11n	ANT0 + ANT1	3.36	8.00

Note :
Per KDB 662911, the MIMO directional gain is calculated using the following formula, Where G_N is the gain of the nth antenna and N_{ANT}, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

Test Data :

ANT0 (SISO)

Test Mode	Frequency [MHz]	Measured Power Density [dBm]	Limit [dBm]	Margin [dB]
802.11b	2 412	-6.88	8.00	14.88
	2 442	-7.20	8.00	15.20
	2 467	-8.28	8.00	16.28
	2 472	-10.27	8.00	18.27
802.11g	2 412	-8.41	8.00	16.41
	2 442	-9.37	8.00	17.37
	2 467	-9.54	8.00	17.54
	2 472	-12.41	8.00	20.41
802.11n _HT20	2 412	-8.94	8.00	16.94
	2 442	-9.86	8.00	17.86
	2 467	-10.36	8.00	18.36
	2 472	-13.85	8.00	21.85

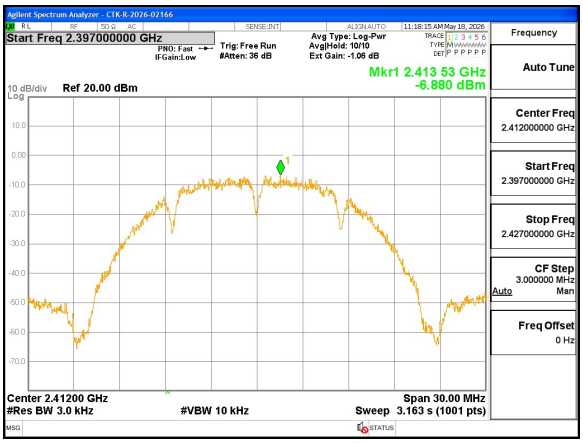
ANT1 (SISO)

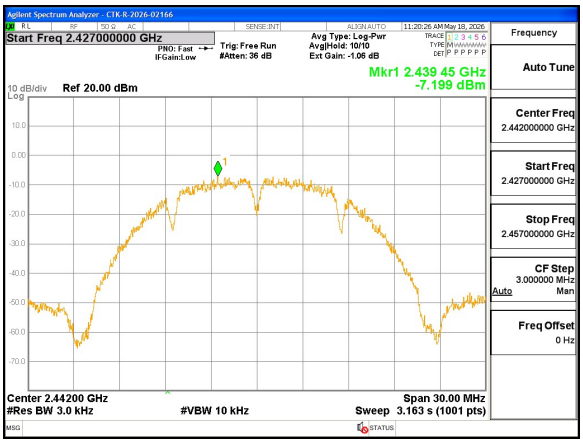
Test Mode	Frequency [MHz]	Measured Power Density [dBm]	Limit [dBm]	Margin [dB]
802.11b	2 412	-7.09	8.00	15.09
	2 442	-6.95	8.00	14.95
	2 467	-7.15	8.00	15.15
	2 472	-10.46	8.00	18.46
802.11g	2 412	-8.64	8.00	16.64
	2 442	-8.75	8.00	16.75
	2 467	-9.41	8.00	17.41
	2 472	-12.81	8.00	20.81
802.11n _HT20	2 412	-6.93	8.00	14.93
	2 442	-7.32	8.00	15.32
	2 467	-7.73	8.00	15.73
	2 472	-12.99	8.00	20.99

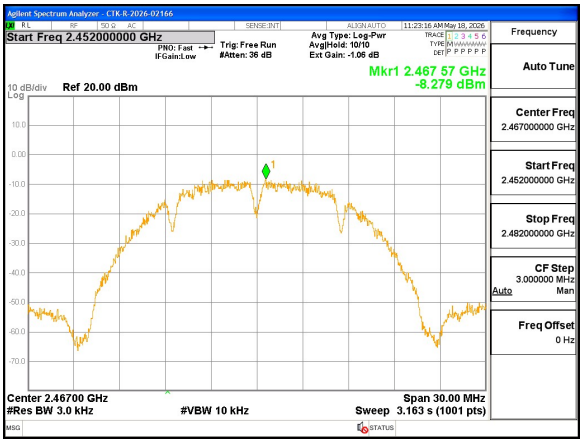
ANT0 + ANT1 (MIMO)

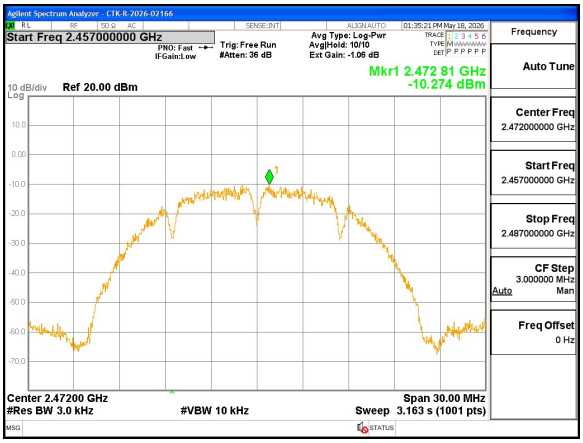
Test Mode	Frequency [MHz]	Measured Power Density [dBm]	Limit [dBm]	Margin [dB]
802.11n _HT20	2 412	-4.81	8.00	12.81
	2 442	-5.40	8.00	13.40
	2 467	-5.84	8.00	13.84
	2 472	-10.39	8.00	18.39

See next pages for actual measured spectrum plots.

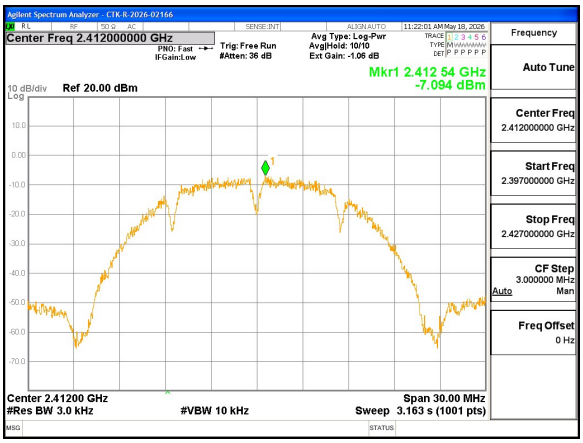

Start Freq 2.397000000 GHz
Mkr1 2.413 53 GHz
-6.880 dBm
Ref 20.00 dBm
Center 2.41200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)

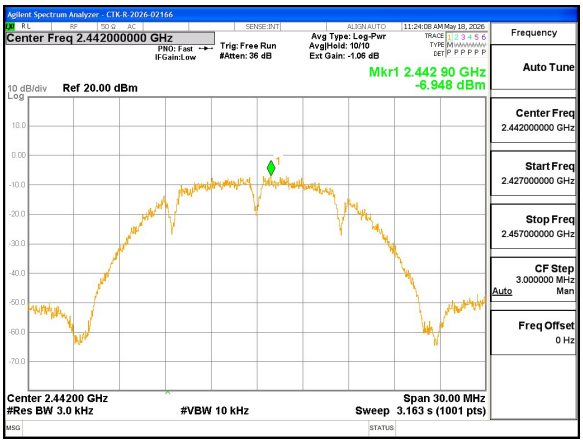

Start Freq 2.427000000 GHz
Mkr1 2.439 45 GHz
-7.199 dBm
Ref 20.00 dBm
Center 2.44200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)

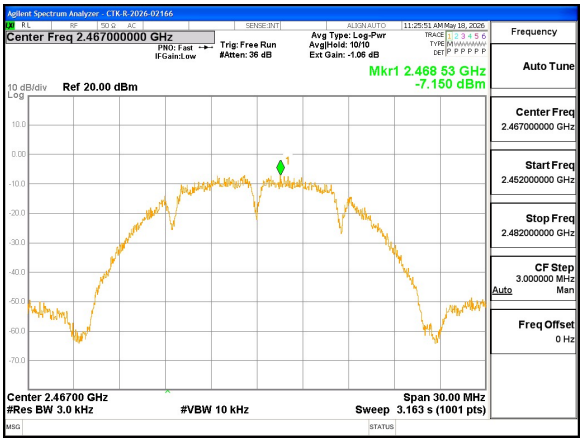

Start Freq 2.452000000 GHz
Mkr1 2.467 57 GHz
-8.279 dBm
Ref 20.00 dBm
Center 2.46700 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)

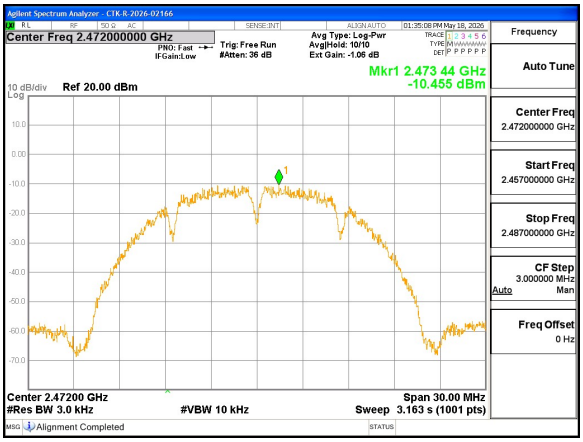

Start Freq 2.457000000 GHz
Mkr1 2.472 81 GHz
-10.274 dBm
Ref 20.00 dBm
Center 2.47200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)

ANT0, 802.11b

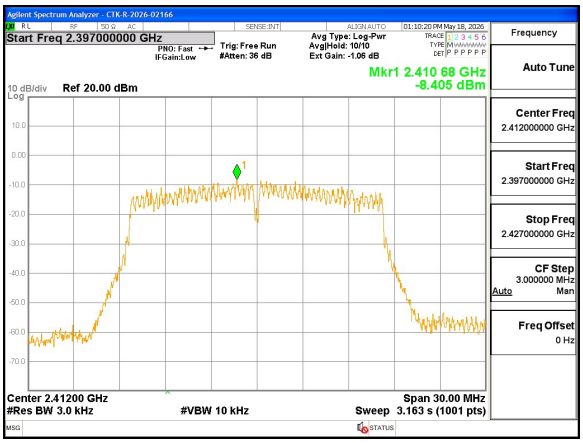

Agilent Spectrum Analyzer - CTK-R-2026-02166
Center Freq 2.412000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
11:22:01 AM May 18, 2026
Mkr1 2.412 54 GHz
-7.094 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.41200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.412000000 GHz
Start Freq
2.397000000 GHz
Stop Freq
2.427000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

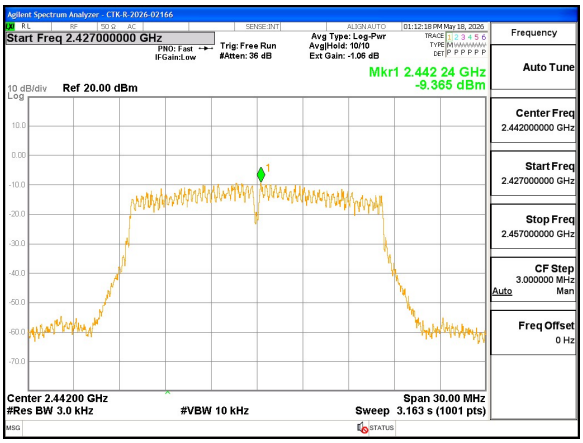

Agilent Spectrum Analyzer - CTK-R-2026-02166
Center Freq 2.442000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
11:24:08 AM May 18, 2026
Mkr1 2.442 90 GHz
-6.948 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.44200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.442000000 GHz
Start Freq
2.427000000 GHz
Stop Freq
2.457000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

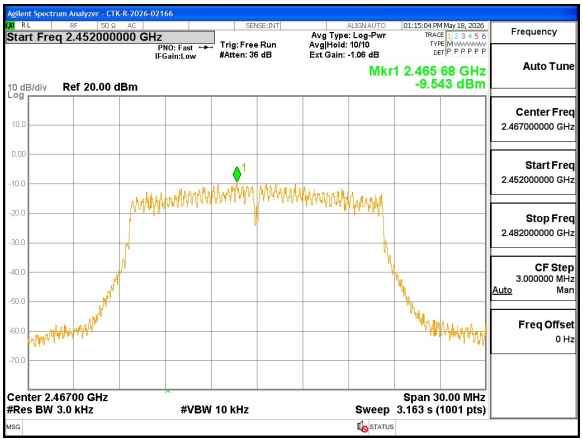

Agilent Spectrum Analyzer - CTK-R-2026-02166
Center Freq 2.467000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
11:25:51 AM May 18, 2026
Mkr1 2.468 53 GHz
-7.150 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.46700 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.467000000 GHz
Start Freq
2.452000000 GHz
Stop Freq
2.482000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

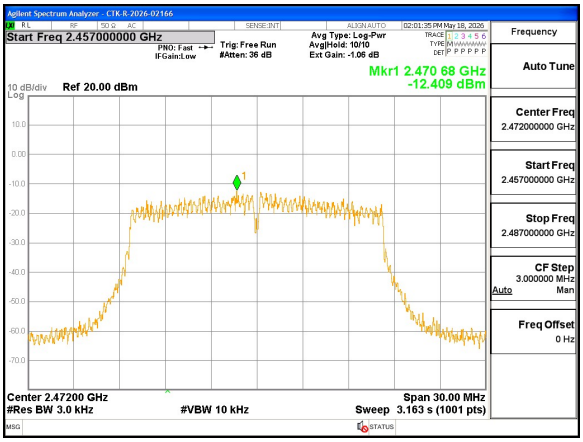

Agilent Spectrum Analyzer - CTK-R-2026-02166
Center Freq 2.472000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
01:35:08 PM May 18, 2026
Mkr1 2.473 44 GHz
-10.455 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.47200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Alignment Completed
Frequency
Auto Tune
Center Freq
2.472000000 GHz
Start Freq
2.457000000 GHz
Stop Freq
2.487000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

ANT1, 802.11b


Agilent Spectrum Analyzer - CTK-R-2026-02166
Start Freq 2.397000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
Mkr1 2.410 68 GHz
-8.405 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.41200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.412000000 GHz
Start Freq
2.397000000 GHz
Stop Freq
2.427000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - CTK-R-2026-02166
Start Freq 2.427000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
Mkr1 2.442 24 GHz
-9.365 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.44200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.442000000 GHz
Start Freq
2.427000000 GHz
Stop Freq
2.457000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - CTK-R-2026-02166
Start Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
Mkr1 2.465 68 GHz
-9.543 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.46700 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.467000000 GHz
Start Freq
2.452000000 GHz
Stop Freq
2.482000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - CTK-R-2026-02166
Start Freq 2.457000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
Ext Gain: -1.06 dB
Mkr1 2.470 68 GHz
-12.409 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 2.47200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 30.00 MHz
Sweep 3.163 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.472000000 GHz
Start Freq
2.457000000 GHz
Stop Freq
2.487000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

ANT0, 802.11g