

Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run µW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.437000000 GHz KEYSIGHT Input: RF Center Frequency 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span Mkr1 2.437800000 GHz 1 Graph 80.000 MHz Ref LvI Offset 12.00 dB Ref Value 30.00 dBm 0.32 dBm Scale/Div 10.0 dB CF Step Log 8.000000 MHz 1 Auto Man Freq Offset). O where we wanted a state of the state of and the state of the second Span 80 MHz Sweep 1.00 ms (1001 pts) Center 2.43700 GHz #Video BW 2.7000 MHz #Res BW 820.00 kHz 2 Metrics Occupied Bandwidth 38.390 MHz 13.7 dBm Total Power Transmit Freq Error x dB Bandwidth -63.490 kHz % of OBW Power 99.00 % Local 58.85 MHz x dB -26.00 dB モッマ **ニ** ? Aug 19, 2024 💬 X 11AX40SISO-Ant1-2437 Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.452000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 2.452000000 GHz L)(I Spar Mkr1 2.447520000 GHz 1 Graph 80.000 MHz Ref LvI Offset 11.90 dB 0.24 dBm Scale/Div 10.0 dB Ref Value 30.00 dBm CF Step 8.000000 MHz ø Auto Man Freq Offset - and the sound of "Turnital workers de. Center 2.45200 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.7000 MHz 2 Metrics Occupied Bandwidth 38.352 MHz Total Power 13.3 dBm 18.644 kHz 58.13 MHz 99.00 % -26.00 dB Transmit Freq Error % of OBW Power Local x dB Bandwidth x dB X 11AX40SISO-Ant1-2452



8.3 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.3.1 **Applicable Standard**

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247 5.4(d) and RSS-Gen 6.12

8.3.2 **Conformance Limit**

The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

8.3.3 **Test Configuration**

Test according to clause 6.1 radio frequency test setup

8.3.4 **Test Procedure**

a) Set span to at least 1.5 times the OBW.

b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

c) Set VBW \geq 3 x RBW.

d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

q) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: If antenna Gain exceeds 6 dBi, then Output power Limit=30-(Gain- 6)

8.3.5 **Test Results**

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A



Test Mode	Anten na	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	8.42	99.03	0.04	8.46	≤30.00	1.42	9.88	≤36.00	PASS
11B	Ant1	2437	7.91	100.00	0.00	7.91	≤30.00	1.42	9.33	≤36.00	PASS
11B	Ant1	2462	8.11	100.00	0.00	8.11	≤30.00	1.42	9.53	≤36.00	PASS
11G	Ant1	2412	7.38	93.55	0.29	7.67	≤30.00	1.42	9.09	≤36.00	PASS
11G	Ant1	2437	6.38	93.12	0.31	6.69	≤30.00	1.42	8.11	≤36.00	PASS
11G	Ant1	2462	6.09	93.55	0.29	6.38	≤30.00	1.42	7.80	≤36.00	PASS
11N20S ISO	Ant1	2412	7.18	93.14	0.31	7.49	≤30.00	1.42	8.91	≤36.00	PASS
11N20S ISO	Ant1	2437	6.28	94.50	0.25	6.53	≤30.00	1.42	7.95	≤36.00	PASS
11N20S ISO	Ant1	2462	5.96	92.20	0.35	6.31	≤30.00	1.42	7.73	≤36.00	PASS
11N40S ISO	Ant1	2422	6.33	88.57	0.53	6.86	≤30.00	1.42	8.28	≤36.00	PASS
11N40S ISO	Ant1	2437	3.60	54.17	2.66	6.26	≤30.00	1.42	7.68	≤36.00	PASS
11N40S ISO	Ant1	2452	5.63	89.42	0.49	6.12	≤30.00	1.42	7.54	≤36.00	PASS
11AX20 SISO	Ant1	2412	4.84	53.85	2.69	7.53	≤30.00	1.42	8.95	≤36.00	PASS
11AX20 SISO	Ant1	2437	3.87	51.85	2.85	6.72	≤30.00	1.42	8.14	≤36.00	PASS
11AX20 SISO	Ant1	2462	3.73	56.00	2.52	6.25	≤30.00	1.42	7.67	≤36.00	PASS
11AX40 SISO	Ant1	2422	3.50	45.45	3.42	6.92	≤30.00	1.42	8.34	≤36.00	PASS
11AX40 SISO	Ant1	2437	3.18	45.45	3.42	6.60	≤30.00	1.42	8.02	≤36.00	PASS
11AX40 SISO	Ant1	2452	2.67	47.62	3.22	5.89	≤30.00	1.42	7.31	≤36.00	PASS

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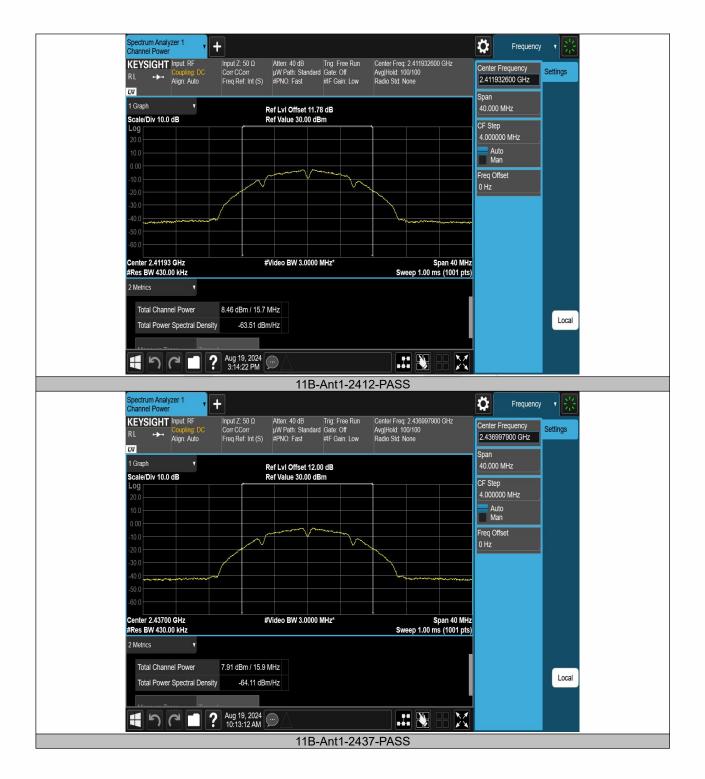
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Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Center Freq: 2.462012300 GHz KEYSIGHT Input: RF Center Frequency 2.462012300 GHz Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)XI Span 1 Graph 40.000 MHz Ref LvI Offset 11.90 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Center 2.46201 GHz #Res BW 430.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* 2 Metrics Total Channel Power 8.11 dBm / 15.8 MHz Local Total Power Spectral Density -63.87 dBm/Hz モ つ C I ? Aug 19, 2024 💬 X 11B-Ant1-2462-PASS Spectrum Analyzer 1 Channel Power Ö Frequency + Center Freq: 2.411908400 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.411908400 GHz L)(I Span 1 Graph Ref Lvi Offset 12.33 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.41191 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 7.67 dBm / 17.3 MHz Local Total Power Spectral Density -64.71 dBm/Hz X モアペロ? Aug 19, 2024 💬 11G-Ant1-2412-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.436925000 GHz KEYSIGHT Input: RF Center Frequency 2.436925000 GHz Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)XI Span 1 Graph 40.000 MHz Ref LvI Offset 12.31 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Span 40 MHz Sweep 1.00 ms (1001 pts) Center 2.43693 GHz #Video BW 3.0000 MHz* #Res BW 430.00 kHz 2 Metrics Total Channel Power 6.69 dBm / 17.4 MHz Local Total Power Spectral Density -65.72 dBm/Hz 4ug 19, 2024 💭 X 11G-Ant1-2437-PASS Spectrum Analyzer 1 Channel Power Ö Frequency + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.461996400 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.461996400 GHz L)(I Spar 1 Graph Ref Lvi Offset 12.19 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.46200 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics 6.38 dBm / 17.5 MHz Total Channel Power Local Total Power Spectral Density -66.05 dBm/Hz X モッペロ? Aug 19, 2024 💬 11G-Ant1-2462-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.411913100 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Atten: 40 dB Trig: Free Run Center Frequency 2.411913100 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 12.35 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Center 2.41191 GHz #Res BW 430.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* 2 Metrics Total Channel Power 7.49 dBm / 18.5 MHz Local Total Power Spectral Density -65.19 dBm/Hz 4 ら C 🖬 ? Aug 19, 2024 💬 X 11N20SISO-Ant1-2412-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Center Freq: 2.436984300 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.436984300 GHz L)(I Spar 1 Graph Ref Lvi Offset 12.25 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.43698 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.53 dBm / 18.6 MHz Local Total Power Spectral Density -66.17 dBm/Hz X モッペロ? Aug 19, 2024 💬 11N20SISO-Ant1-2437-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.461984400 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Atten: 40 dB Trig: Free Run Center Frequency 2.461984400 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 12.25 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* Center 2.46198 GHz #Res BW 430.00 kHz 2 Metrics Total Channel Power 6.31 dBm / 18.4 MHz Local Total Power Spectral Density -66.35 dBm/Hz 4ug 19, 2024 🗩 10:54:58 AM 💬 X 11N20SISO-Ant1-2462-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.421854300 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.421854300 GHz L)(I Span 1 Graph Ref Lvi Offset 12.53 dB Ref Value 30.00 dBm 80.000 MHz Scale/Div 10.0 dB CF Step 8.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.42185 GHz #Res BW 820.00 kHz #Video BW 3.0000 MHz* Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.86 dBm / 37.2 MHz Local Total Power Spectral Density -68.85 dBm/Hz モッマ **ニ** ? Aug 19, 2024 💬 X 11N40SISO-Ant1-2422-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run Center Freq: 2.441943600 GHz KEYSIGHT Input: RF Center Frequency 2.441943600 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span 1 Graph 80.000 MHz Ref LvI Offset 14.66 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 8.000000 MHz Auto Man Freq Offset Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* Center 2.44194 GHz #Res BW 820.00 kHz 2 Metrics Total Channel Power 6.26 dBm / 36.9 MHz Local Total Power Spectral Density -69.41 dBm/Hz モーク C* エー ? Aug 19, 2024 💬 X 11N40SISO-Ant1-2437-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.461795000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.461795000 GHz L)(I Spar 1 Graph Ref Lvi Offset 12.39 dB Ref Value 30.00 dBm 80.000 MHz Scale/Div 10.0 dB CF Step 8.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.46180 GHz #Res BW 820.00 kHz #Video BW 3.0000 MHz* Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.12 dBm / 37.2 MHz Local -69.59 dBm/Hz Total Power Spectral Density X モッペロ? Aug 19, 2024 💬 11N40SISO-Ant1-2452-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run Center Freq: 2.412044000 GHz KEYSIGHT Input: RF Center Frequency 2.412044000 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 14.73 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset "Why we What when Span 40 MHz Sweep 1.00 ms (1001 pts) Center 2.41204 GHz #Video BW 3.0000 MHz* #Res BW 430.00 kHz 2 Metrics Total Channel Power 7.53 dBm / 19.3 MHz Local Total Power Spectral Density -65.33 dBm/Hz 4 ら C 🔳 ? Aug 19, 2024 💬 X 11AX20SISO-Ant1-2412-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Center Freq: 2.437049900 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.437049900 GHz L)(I Spar 1 Graph Ref Lvi Offset 14.85 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz .og Auto Man Freq Offset 0 Hz UNA monthy was Center 2.43705 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.72 dBm / 19.3 MHz Local Total Power Spectral Density -66.14 dBm/Hz モッマ **ニ** ? Aug 19, 2024 💬 X 11AX20SISO-Ant1-2437-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.462021800 GHz Atten: 40 dB Trig: Free Run KEYSIGHT Input: RF Center Frequency 2.462021800 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 14.42 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Center 2.46202 GHz #Res BW 430.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* 2 Metrics Total Channel Power 6.25 dBm / 19.3 MHz Local Total Power Spectral Density -66.60 dBm/Hz 4ug 19, 2024 🗩 X 11AX20SISO-Ant1-2462-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.421911900 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.421911900 GHz L)(I Span 1 Graph Ref Lvi Offset 15.42 dB Ref Value 30.00 dBm 80.000 MHz Scale/Div 10.0 dB CF Step 8.000000 MHz .og Auto Man Freq Offset 0 Hz Web.m. Center 2.42191 GHz #Res BW 820.00 kHz #Video BW 3.0000 MHz* Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.92 dBm / 38.5 MHz Local Total Power Spectral Density -68.94 dBm/Hz X 手ってこ? Aug 19, 2024 💬 11AX40SISO-Ant1-2422-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.436936500 GHz KEYSIGHT Input: RF Atten: 40 dB Trig: Free Run Center Frequency 2.436936500 GHz μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span 1 Graph 80.000 MHz Ref LvI Offset 15.42 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 8.000000 MHz Auto Man Freq Offset Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz* Center 2.43694 GHz #Res BW 820.00 kHz 2 Metrics Total Channel Power 6.60 dBm / 38.4 MHz Local Total Power Spectral Density -69.25 dBm/Hz モア C エ ? Aug 19, 2024 💬 X 11AX40SISO-Ant1-2437-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.452018600 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.452018600 GHz L)(I Spar 1 Graph Ref Lvi Offset 15.12 dB Ref Value 30.00 dBm 80.000 MHz Scale/Div 10.0 dB CF Step 8.000000 MHz .og Auto Man Freq Offset 0 Hz Center 2.45202 GHz #Res BW 820.00 kHz #Video BW 3.0000 MHz* Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 5.89 dBm / 38.4 MHz Local Total Power Spectral Density -69.95 dBm/Hz X 手ってこ? Aug 19, 2024 💬 11AX40SISO-Ant1-2452-PASS



8.4 MAXIMUM POWER SPECTRAL DENSITY

8.4.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247 5.2(b) and RSS-Gen 6.12

8.4.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

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

The transmitter output (antenna port) was connected to the spectrum analyzer Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

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

8.4.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A



TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-22.73	≤8.00	PASS
11B	Ant1	2437	-23.84	≤8.00	PASS
11B	Ant1	2462	-23.23	≤8.00	PASS
11G	Ant1	2412	-25.53	≤8.00	PASS
11G	Ant1	2437	-26.34	≤8.00	PASS
11G	Ant1	2462	-26.60	≤8.00	PASS
11N20SISO	Ant1	2412	-25.80	≤8.00	PASS
11N20SISO	Ant1	2437	-26.51	≤8.00	PASS
11N20SISO	Ant1	2462	-26.77	≤8.00	PASS
11N40SISO	Ant1	2422	-28.07	≤8.00	PASS
11N40SISO	Ant1	2437	-24.88	≤8.00	PASS
11N40SISO	Ant1	2452	-29.37	≤8.00	PASS
11AX20SISO	Ant1	2412	-21.25	≤8.00	PASS
11AX20SISO	Ant1	2437	-22.16	≤8.00	PASS
11AX20SISO	Ant1	2462	-22.56	≤8.00	PASS
11AX40SISO	Ant1	2422	-23.69	≤8.00	PASS
11AX40SISO	Ant1	2437	-24.18	≤8.00	PASS
11AX40SISO	Ant1	2452	-24.59	≤8.00	PASS

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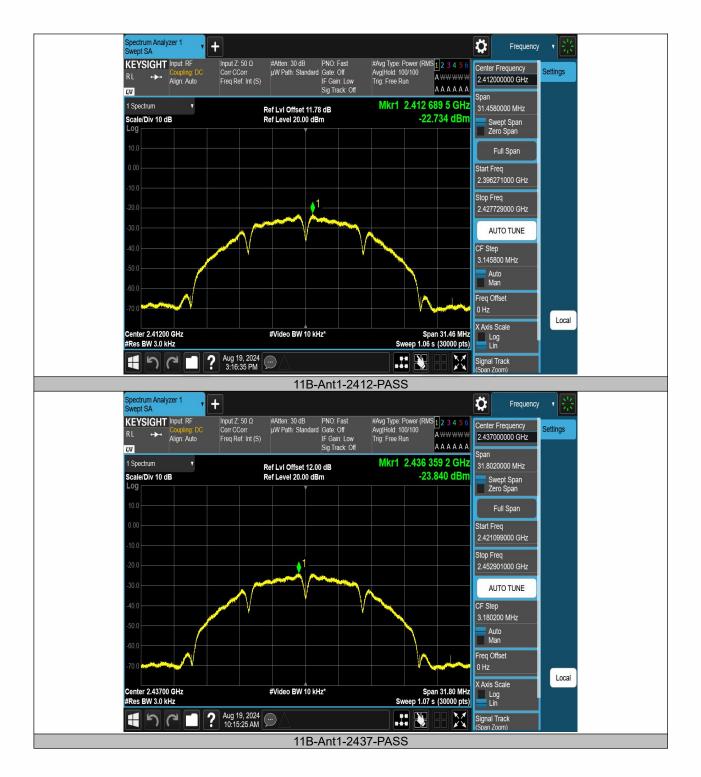
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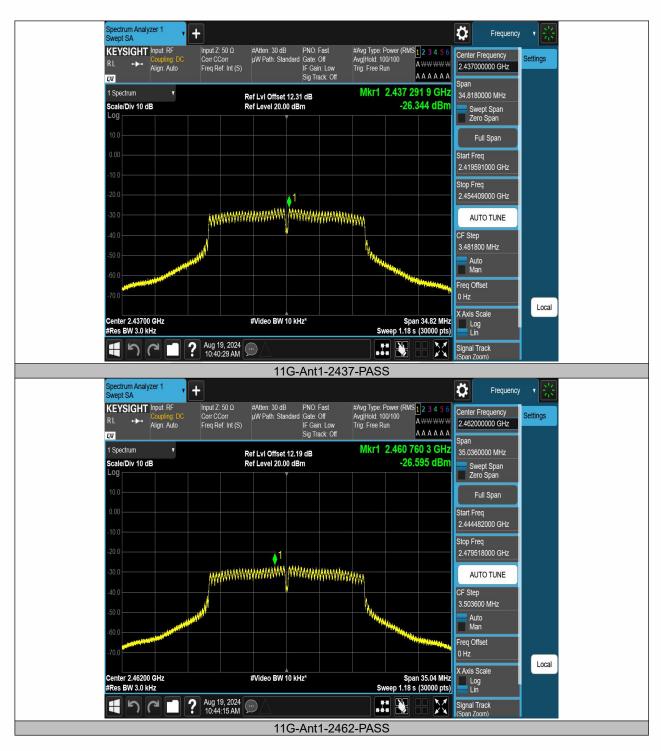




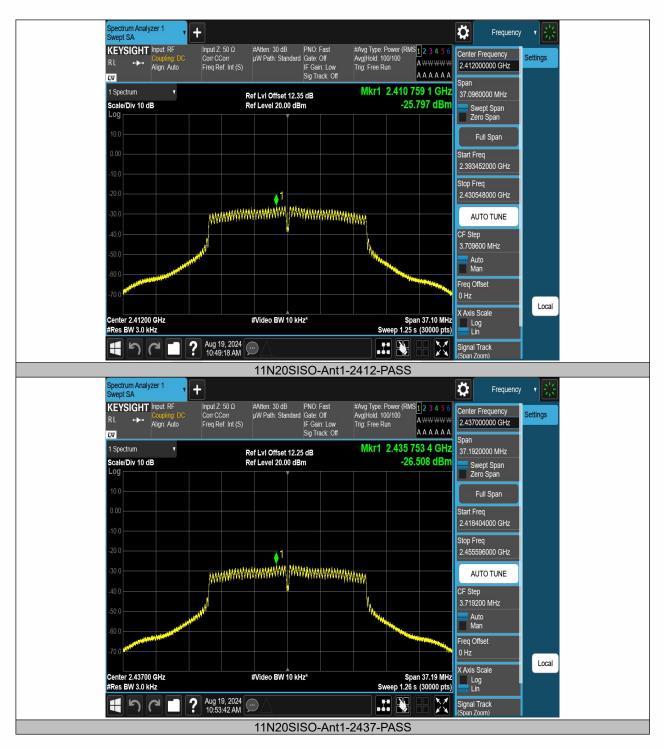




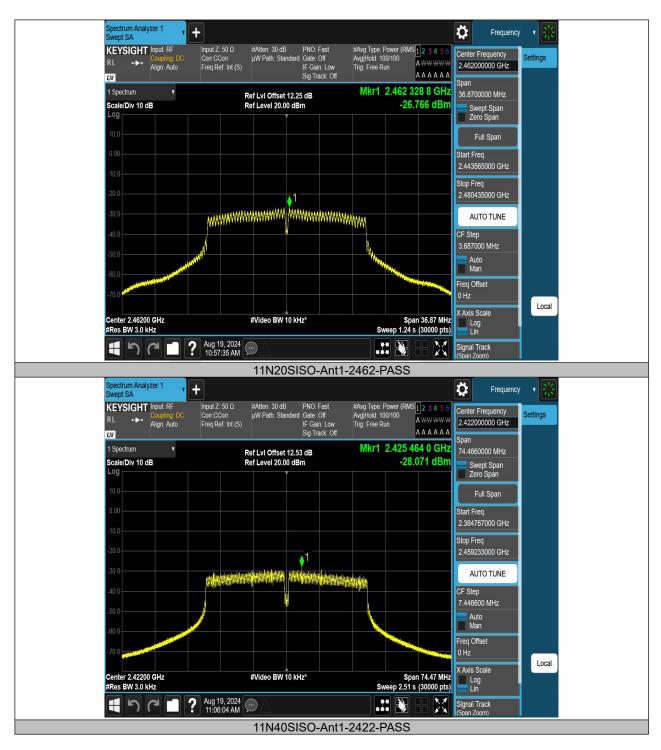




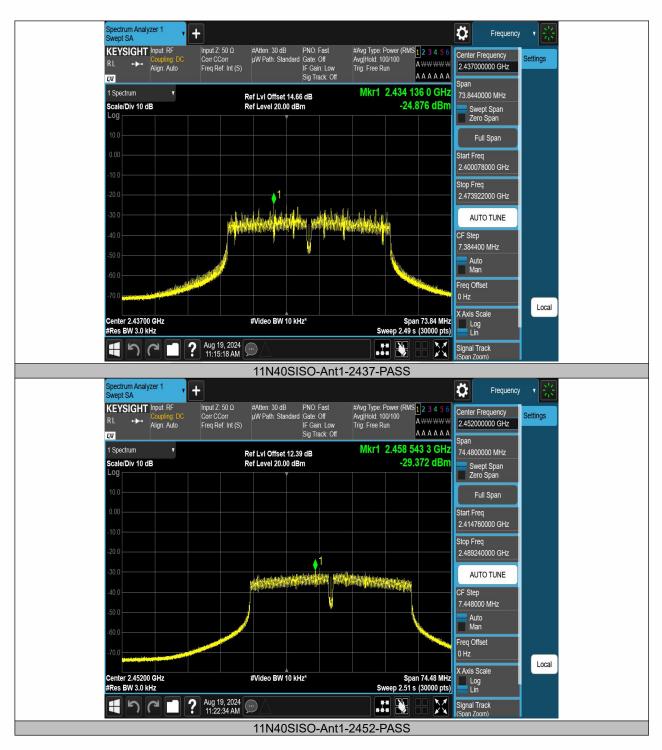












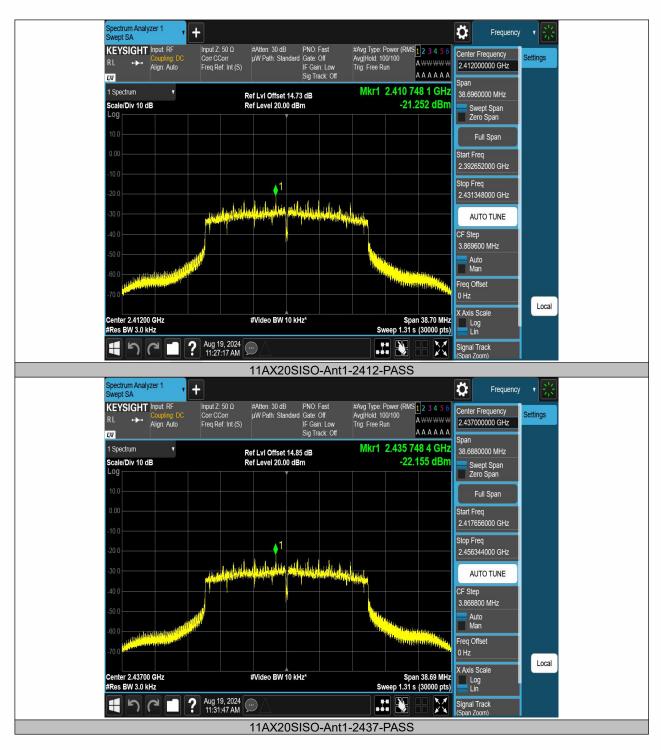
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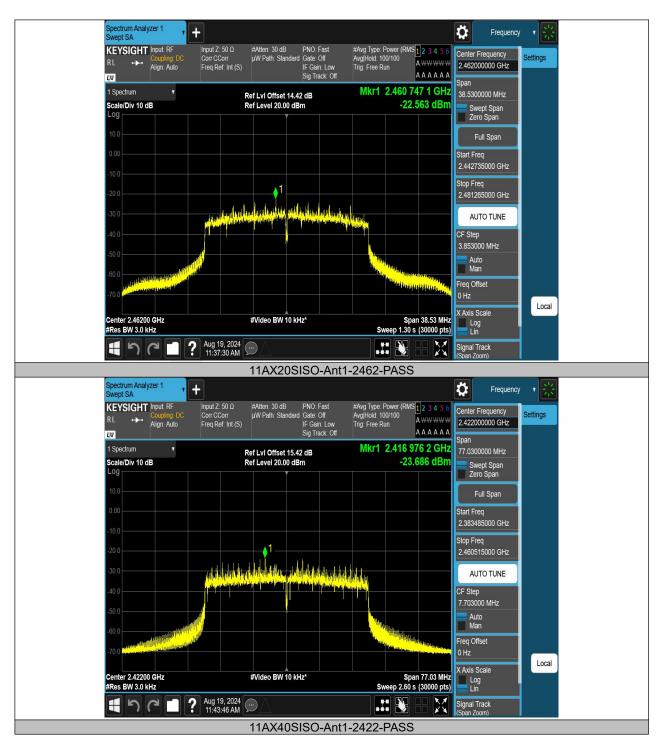
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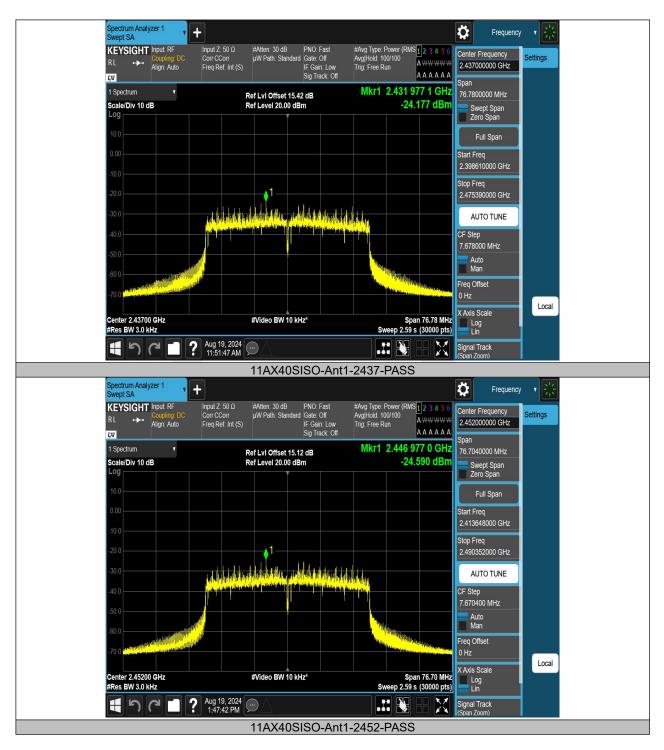














8.5 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.5.1 Applicable Standard

According to FCC Part15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247 5.5

8.5.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted undersection 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

8.5.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.5.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to \geq 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation Set RBW $\ge 1\%$ of the span=100kHz Set VBW $\ge 3 \times RBW$

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.