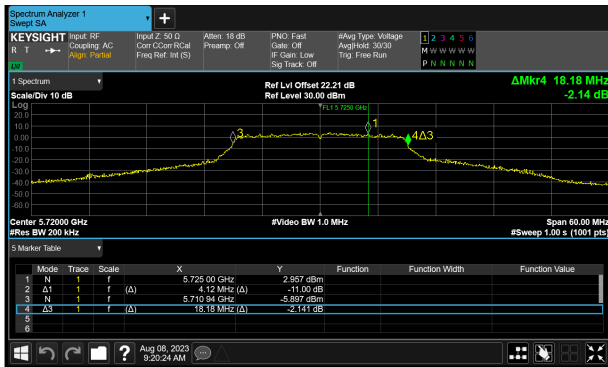
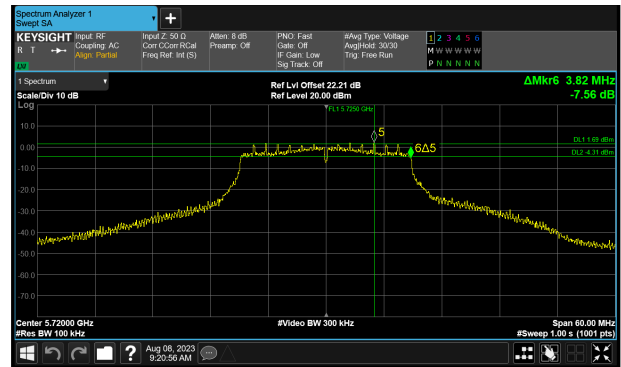


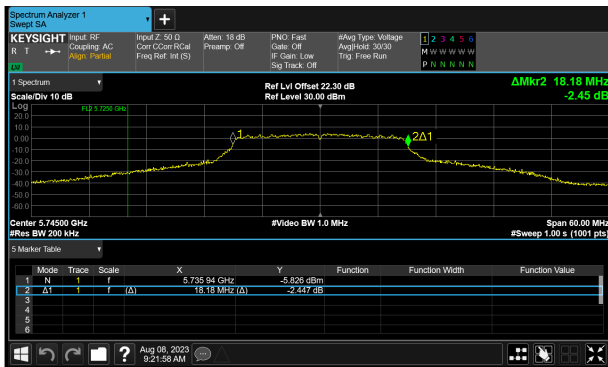
Transmitter 6 dB & 99% Emission Bandwidth (5.725-5.85 GHz band) (continued)



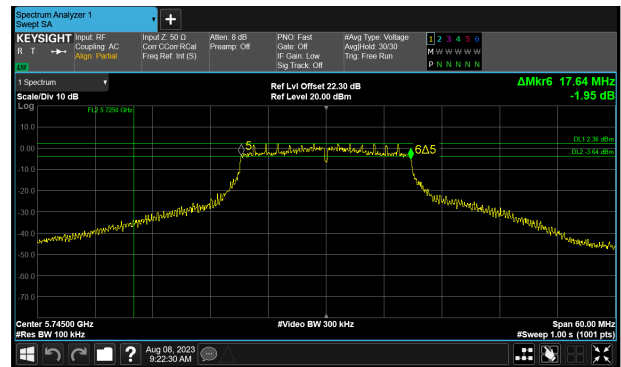
SP1-C0 (1) 5720 MHz (CH144) 99% Bandwidth



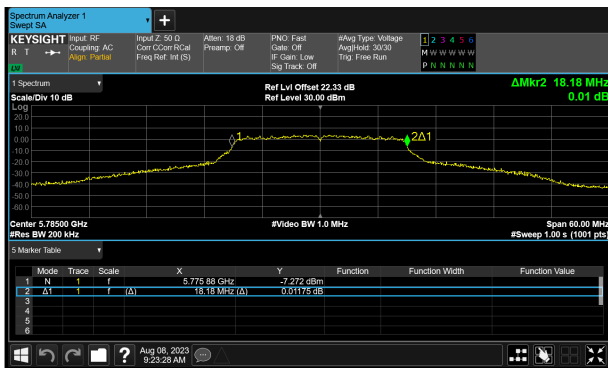
SP1-C0 (1) 5720 MHz (CH144) 6 dB Bandwidth



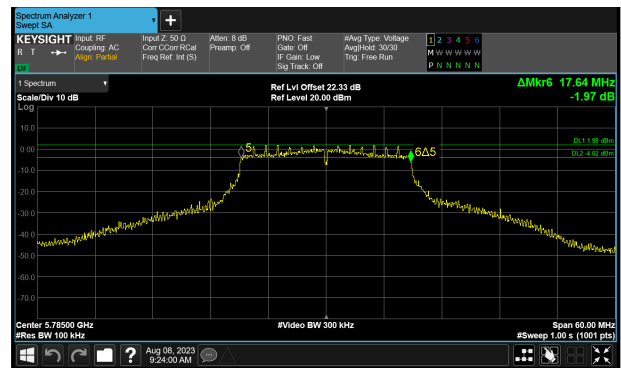
SP1-C0 (1) 5745 MHz (CH149) 99% Bandwidth



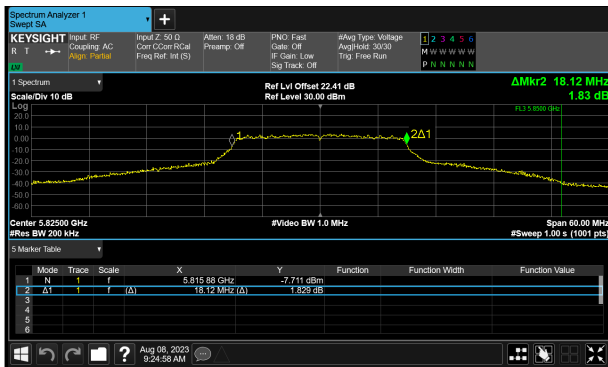
SP1-C0 (1) 5745 MHz (CH149) 6 dB Bandwidth



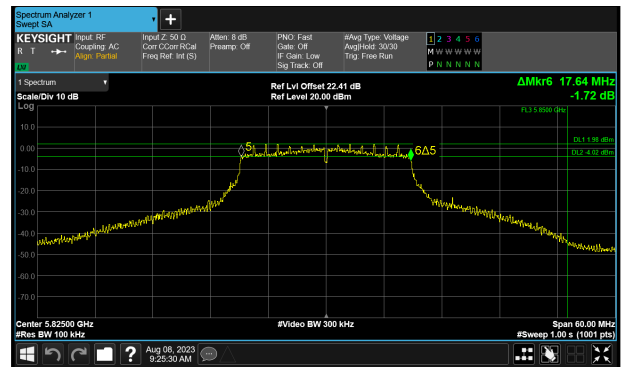
SP1-C0 (1) 5785 MHz (CH157) 99% Bandwidth



SP1-C0 (1) 5785 MHz (CH157) 6 dB Bandwidth



SP1-C0 (1) 5825 MHz (CH165) 99% Bandwidth



SP1-C0 (1) 5825 MHz (CH165) 6 dB Bandwidth

Transmitter 6 dB & 99% Emission Bandwidth (5.725-5.85 GHz band) (continued)

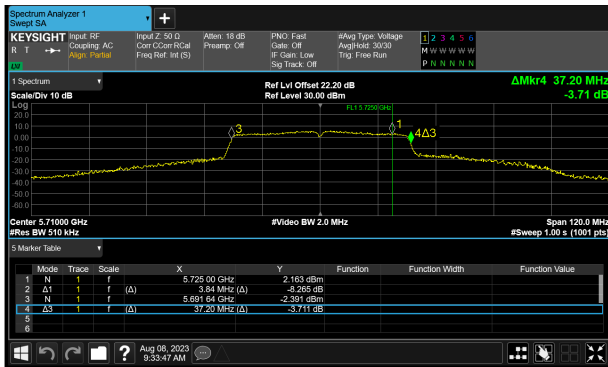
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407(e) RSS-247 6.2.4.1	Test Method:	C63.10 6.9.3 C63.10 12.4.1

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

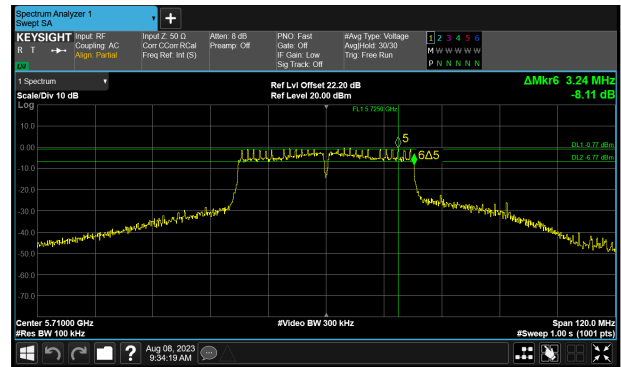
Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
5710 (CH142)	3.240	-	-	-	≥500.0
5755 (CH151)	36.400	-	-	-	≥500.0
5795 (CH159)	36.300	-	-	-	≥500.0

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
5710 (CH142)	3.840	-	-	-	-
5755 (CH151)	36.900	-	-	-	-
5795 (CH159)	36.900	-	-	-	-

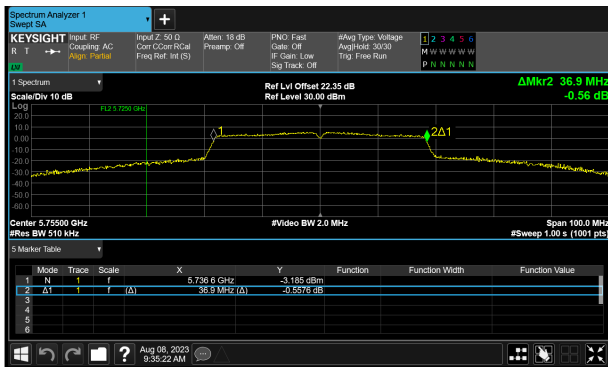
Transmitter 6 dB & 99% Emission Bandwidth (5.725-5.85 GHz band) (continued)



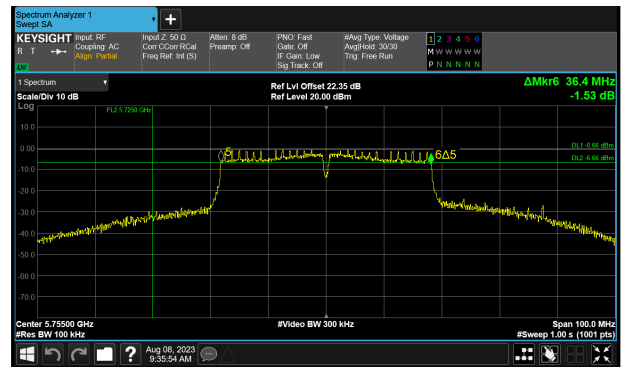
SP1-C0 (1) 5710 MHz (CH142) 99% Bandwidth



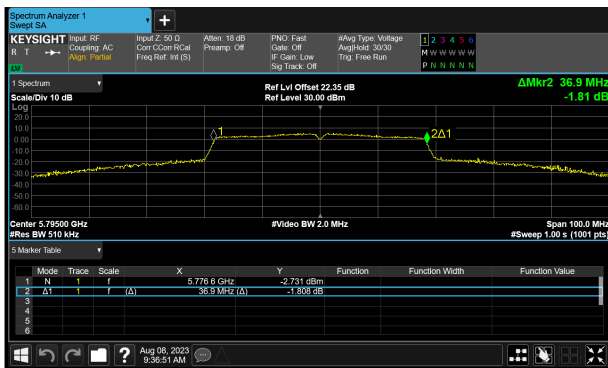
SP1-C0 (1) 5710 MHz (CH142) 6 dB Bandwidth



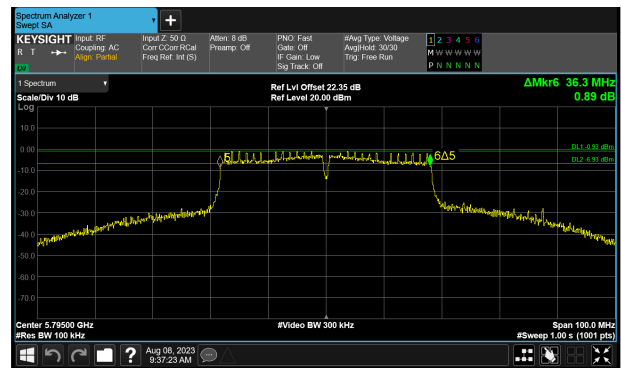
SP1-C0 (1) 5755 MHz (CH151) 99% Bandwidth



SP1-C0 (1) 5755 MHz (CH151) 6 dB Bandwidth



SP1-C0 (1) 5795 MHz (CH159) 99% Bandwidth



SP1-C0 (1) 5795 MHz (CH159) 6 dB Bandwidth

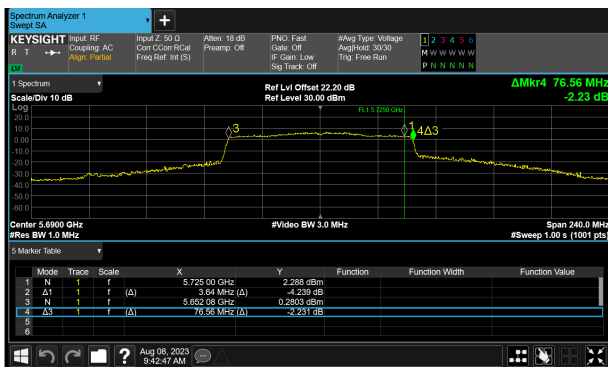
Transmitter 6 dB & 99% Emission Bandwidth (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407(e) RSS-247 6.2.4.1	Test Method:	C63.10 6.9.3 C63.10 12.4.1

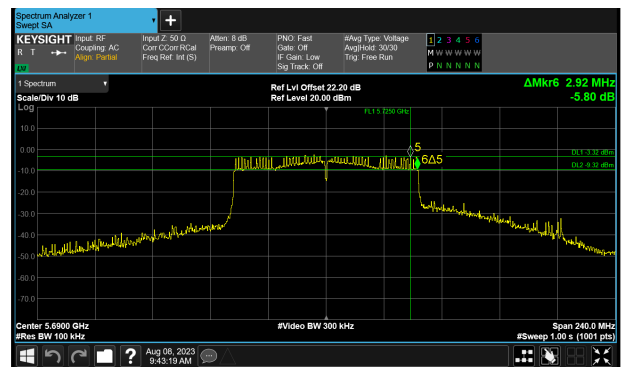
Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
5690 (CH138)	2.920	-	-	-	≥500.0
5775 (CH155)	75.680	-	-	-	≥500.0

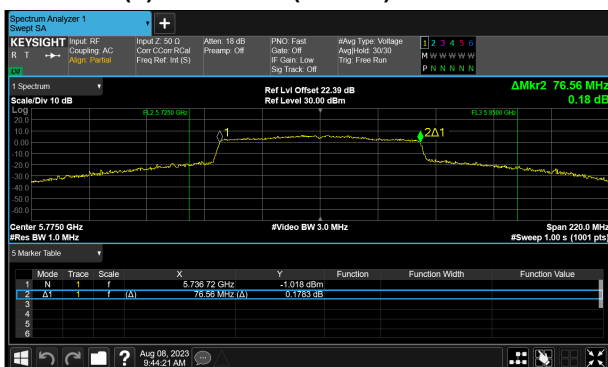
Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
5690 (CH138)	3.640	-	-	-	-
5775 (CH155)	76.560	-	-	-	-



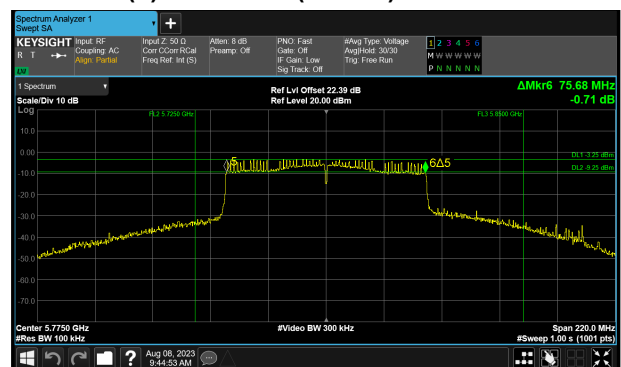
SP1-C0 (1) 5690 MHz (CH138) 99% Bandwidth



SP1-C0 (1) 5690 MHz (CH138) 6 dB Bandwidth



SP1-C0 (1) 5775 MHz (CH155) 99% Bandwidth



SP1-C0 (1) 5775 MHz (CH155) 6 dB Bandwidth

4.2 Transmitter Maximum Conducted Output Power

4.2.1 5.15-5.25 GHz band

Test Summary:

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

- Measurements were performed in accordance with ANSI C63.10 Section 12.3.3.2 using a gated power meter.
- The RSS-247 6.2.1.1 e.i.r.p. limit is the lesser of 200 mW (23 dBm) or $10 + 10 \log_{10} B$, where B is the previously measured 99% emission bandwidth in MHz.

$$\begin{aligned}
 &\text{For } B > 20 \text{ MHz} \rightarrow \\
 &\rightarrow \log_{10} B > \log_{10} 20 \rightarrow \\
 &\rightarrow 10 \log_{10} B > 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 10 + 10 \log_{10} B > 10 + 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 10 + 10 \log_{10} B > 23.0 \text{ dBm}
 \end{aligned}$$

Therefore for measured emission bandwidths greater than 20 MHz, the lesser of the two limits is the fixed limit of 200 mW (23.0 dBm). This was applied to the results.

- For all modes of operation, the antenna gain is < 6 dBi.
- The power meter was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the power meter to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5180 (CH36)	13.90	-	-	-	-	2.50	24.00	10.10
5200 (CH40)	14.05	-	-	-	-	2.50	24.00	9.95
5240 (CH48)	13.69	-	-	-	-	2.50	24.00	10.31

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ				
5180 (CH36)	13.90	-	-	-	-	2.50	16.40	22.22	5.82
5200 (CH40)	14.05	-	-	-	-	2.50	16.55	22.22	5.67
5240 (CH48)	13.69	-	-	-	-	2.50	16.19	22.24	6.05

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5180 (CH36)	13.40	-	-	-	-	2.50	24.00	10.60
5200 (CH40)	14.12	-	-	-	-	2.50	24.00	9.88
5240 (CH48)	13.63	-	-	-	-	2.50	24.00	10.37

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ				
5180 (CH36)	13.40	-	-	-	-	2.50	15.90	22.52	6.62
5200 (CH40)	14.12	-	-	-	-	2.50	16.62	22.54	5.92
5240 (CH48)	13.63	-	-	-	-	2.50	16.13	22.54	6.41

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.96	Period (ms): 0.965	Width (ms): 0.945
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5190 (CH38)	10.49	-	-	-	-	2.50	24.00	13.51
5230 (CH46)	14.06	-	-	-	-	2.50	24.00	9.94

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ				
5190 (CH38)	10.49	-	-	-	-	2.50	12.99	23.00	10.01
5230 (CH46)	14.06	-	-	-	-	2.50	16.56	23.00	6.44

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.82	Period (ms): 0.481	Width (ms): 0.462
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5210 (CH42)	8.45	-	-	-	-	2.50	24.00	15.55

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ				
5210 (CH42)	8.45	-	-	-	-	2.50	10.95	23.00	12.05

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz band)**4.2.2 5.25-5.35 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

- Measurements were performed in accordance with ANSI C63.10 Section 12.3.3.2 using a gated power meter.
- For all modes of operation, the antenna gain is < 6 dBi.
- The FCC Part 15.407(a)(2) / RSS-247 6.2.2.1 limit is the lesser of 250 mW (24.0 dBm) or 11 dBm + 10 log₁₀ B, where B is the previously measured 26 dB emission bandwidth / 99 % occupied bandwidth in MHz. For U-NII-2A band, the 26 dB EBW is greater than 20 MHz.

$$\begin{aligned}
 &\text{For } B > 20 \text{ MHz} \rightarrow \\
 &\rightarrow \log_{10} B > \log_{10} 20 \rightarrow \\
 &\rightarrow 10 \log_{10} B > 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 11 + 10 \log_{10} B > 11 + 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 11 + 10 \log_{10} B > 24.0 \text{ dBm}
 \end{aligned}$$

Therefore for measured emission bandwidths greater than 20 MHz, the lesser of the two limits is the fixed limit of 250 mW (24.0 dBm). This was applied to the results.

- The RSS-247 6.2.2.1 e.i.r.p. limit is the lesser of 1.0 W (30.0 dBm) or 17 + 10 log₁₀ B, where B is the previously measured 99% emission bandwidth in MHz.

$$\begin{aligned}
 &\text{For } B > 20 \text{ MHz} \rightarrow \\
 &\rightarrow \log_{10} B > \log_{10} 20 \rightarrow \\
 &\rightarrow 10 \log_{10} B > 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 17 + 10 \log_{10} B > 17 + 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 17 + 10 \log_{10} B > 30.0 \text{ dBm}
 \end{aligned}$$

Therefore for measured emission bandwidths greater than 20 MHz, the lesser of the two limits is the fixed limit of 1.0 W (30.0 dBm). This was applied to the results.

- The power meter was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the power meter to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5260 (CH52)	13.99	-	-	-	-	2.50	24.00	10.01
5280 (CH56)	13.78	-	-	-	-	2.50	24.00	10.22
5320 (CH64)	13.35	-	-	-	-	2.50	24.00	10.65

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5260 (CH52)	13.99	-	-	-	-	23.24	9.25	2.50	16.49	29.24	12.75
5280 (CH56)	13.78	-	-	-	-	23.24	9.46	2.50	16.28	29.24	12.96
5320 (CH64)	13.35	-	-	-	-	23.25	9.91	2.50	15.85	29.25	13.41

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5260 (CH52)	13.68	-	-	-	-	2.50	24.00	10.32
5280 (CH56)	13.47	-	-	-	-	2.50	24.00	10.53
5320 (CH64)	13.31	-	-	-	-	2.50	24.00	10.69

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5260 (CH52)	13.68	-	-	-	-	23.55	9.87	2.50	16.18	29.55	13.37
5280 (CH56)	13.47	-	-	-	-	23.55	10.08	2.50	15.97	29.55	13.58
5320 (CH64)	13.31	-	-	-	-	23.57	10.26	2.50	15.81	29.57	13.76

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.97	Period (ms): 0.965	Width (ms): 0.945
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5270 (CH54)	13.32	-	-	-	-	2.50	24.00	10.68
5310 (CH62)	11.20	-	-	-	-	2.50	24.00	12.80

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5270 (CH54)	13.32	-	-	-	-	24.00	10.68	2.50	15.82	30.00	14.18
5310 (CH62)	11.20	-	-	-	-	24.00	12.80	2.50	13.70	30.00	16.30

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.3.2

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.98	Period (ms): 0.481	Width (ms): 0.462
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5290 (CH58)	10.90	-	-	-	-	2.50	24.00	13.10

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5290 (CH58)	10.90	-	-	-	-	24.00	13.10	2.50	13.40	30.00	16.60

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.47-5.725 GHz band)**4.2.3 5.47-5.725 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

- Measurements were performed in accordance with ANSI C63.10 Section 12.3.3.2 using a gated power meter.
- For channels that straddle the 5.47-5.725 GHz and 5.725-5.85 GHz bands, the raw trace data from the Power Spectral Density plot was integrated over the portion of the 99% Occupied Bandwidth falling within in each band.
- For all modes of operation, the antenna gain is < 6 dBi.
- The power meter / signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the power meter / signal analyser to compensate for the loss of the attenuator and RF cable.
- The FCC Part 15.407(a)(2) RSS-247 6.2.3.1 limit is the lesser of 250 mW (24.0 dBm) or 11 dBm + 10 log₁₀ B, where B is the previously measured 26 dB emission bandwidth / 99% occupied bandwidth in MHz. For U-NII-2C band, the 26 dB EBW is greater than 20 MHz.

$$\begin{aligned}
 &\text{For } B > 20 \text{ MHz} \rightarrow \\
 &\rightarrow \log_{10} B > \log_{10} 20 \rightarrow \\
 &\rightarrow 10 \log_{10} B > 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 11 + 10 \log_{10} B > 11 + 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 11 + 10 \log_{10} B > 24.0 \text{ dBm}
 \end{aligned}$$

Therefore for measured emission bandwidths greater than 20 MHz, the lesser of the two limits is the fixed limit of 250 mW (24.0 dBm). This was applied to the results.

- The RSS-247 6.2.3.1 e.i.r.p. limit is the lesser of 1.0 W (30.0 dBm) or 17 + 10 log₁₀ B, where B is the previously measured 99% emission bandwidth in MHz.

$$\begin{aligned}
 &\text{For } B > 20 \text{ MHz} \rightarrow \\
 &\rightarrow \log_{10} B > \log_{10} 20 \rightarrow \\
 &\rightarrow 10 \log_{10} B > 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 17 + 10 \log_{10} B > 17 + 10 \log_{10} 20 \rightarrow \\
 &\rightarrow 17 + 10 \log_{10} B > 30.0 \text{ dBm}
 \end{aligned}$$

Therefore for measured emission bandwidths greater than 20 MHz, the lesser of the two limits is the fixed limit of 1.0 W (30.0 dBm). This was applied to the results.

Transmitter Maximum Conducted Output Power (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	∑			
5500 (CH100)	13.74	-	-	-	-	2.50	24.00	10.26
5580 (CH116)	14.53	-	-	-	-	2.50	24.00	9.47
5700 (CH140)	10.59	-	-	-	-	2.50	24.00	13.41
5720 (CH144)	13.23	-	-	-	-	2.50	23.13	9.90

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	∑						
5500 (CH100)	13.74	-	-	-	-	23.22	9.48	2.50	16.24	29.22	12.98
5580 (CH116)	14.53	-	-	-	-	23.24	8.71	2.50	17.03	29.24	12.21
5700 (CH140)	10.59	-	-	-	-	23.24	12.65	2.50	13.09	29.24	16.15
5720 (CH144)	13.23	-	-	-	-	22.29	9.06	2.50	15.73	28.29	12.56

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.94	Period (ms): 1.941	Width (ms): 1.921
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5500 (CH100)	14.00	-	-	-	-	2.50	24.00	10.00
5580 (CH116)	14.74	-	-	-	-	2.50	24.00	9.26
5700 (CH140)	10.14	-	-	-	-	2.50	24.00	13.86
5720 (CH144)	12.81	-	-	-	-	2.50	23.37	10.56

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5500 (CH100)	14.00	-	-	-	-	23.54	9.54	2.50	16.50	29.54	13.04
5580 (CH116)	14.74	-	-	-	-	23.54	8.80	2.50	17.24	29.54	12.30
5700 (CH140)	10.14	-	-	-	-	23.52	13.38	2.50	12.64	29.52	16.88
5720 (CH144)	12.81	-	-	-	-	22.48	9.67	2.50	15.31	28.48	13.17

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.97	Period (ms): 0.965	Width (ms): 0.945
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5510 (CH102)	11.23	-	-	-	-	2.50	24.00	12.77
5550 (CH110)	14.35	-	-	-	-	2.50	24.00	9.65
5670 (CH134)	14.16	-	-	-	-	2.50	24.00	9.84
5710 (CH142)	13.74	-	-	-	-	2.50	24.00	10.26

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5510 (CH102)	11.23	-	-	-	-	24.00	12.77	2.50	13.73	30.00	16.27
5550 (CH110)	14.35	-	-	-	-	24.00	9.65	2.50	16.85	30.00	13.15
5670 (CH134)	14.16	-	-	-	-	24.00	9.84	2.50	16.66	30.00	13.34
5710 (CH142)	13.74	-	-	-	-	24.00	10.26	2.50	16.24	30.00	13.76

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.98	Period (ms): 0.481	Width (ms): 0.462
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5530 (CH106)	10.78	-	-	-	-	2.50	24.00	13.22
5610 (CH122)	14.59	-	-	-	-	2.50	24.00	9.41
5690 (CH138)	13.92	-	-	-	-	2.50	24.00	10.08

FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
5530 (CH106)	10.78	-	-	-	-	24.00	13.22	2.50	13.28	30.00	16.72
5610 (CH122)	14.59	-	-	-	-	24.00	9.41	2.50	17.09	30.00	12.91
5690 (CH138)	13.92	-	-	-	-	24.00	10.08	2.50	16.42	30.00	13.58

ISED Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band)**4.2.4 5.725-5.85 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

1. Measurements were performed in accordance with ANSI C63.10 Section 12.3.3.2 using a gated power meter.
2. For channels that straddle the 5.47-5.725 GHz and 5.725-5.85 GHz bands, the raw trace data from the Power Spectral Density plot was integrated over the portion of the 99% Occupied Bandwidth falling within in each band.
3. For all modes of operation, the antenna gain is < 6 dBi.
4. The power meter / signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the power meter / signal analyser to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.03	Period (ms): 2.085	Width (ms): 2.065
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	Σ			
5720 (CH144)	6.00	-	-	-	-	2.50	30.00	24.00
5745 (CH149)	14.05	-	-	-	-	2.50	30.00	15.95
5785 (CH157)	13.81	-	-	-	-	2.50	30.00	16.19
5825 (CH165)	13.52	-	-	-	-	2.50	30.00	16.48

Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	∑			
5720 (CH144)	6.05	-	-	-	-	2.50	30.00	23.95
5745 (CH149)	13.92	-	-	-	-	2.50	30.00	16.08
5785 (CH157)	13.76	-	-	-	-	2.50	30.00	16.24
5825 (CH165)	13.68	-	-	-	-	2.50	30.00	16.32

Maximum Conducted (average) Output Power Results

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.97	Period (ms): 0.965	Width (ms): 0.945
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	∑			
5710 (CH142)	2.65	-	-	-	-	2.50	30.00	27.35
5755 (CH151)	13.77	-	-	-	-	2.50	30.00	16.23
5795 (CH159)	13.75	-	-	-	-	2.50	30.00	16.25

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.3.3.2
Note:	Straddle channel power was measured using a spectrum analyser. DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.98	Period (ms): 0.481	Width (ms): 0.462
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Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	Limit (dBm)	Margin (dB)
	1	2	3	4	∑			
5690 (CH138)	-0.66	-	-	-	-	2.50	30.00	30.66
5775 (CH155)	13.68	-	-	-	-	2.50	30.00	16.32

4.3 Transmitter Maximum Power Spectral Density

4.3.1 5.15-5.25 GHz band

Test Summary:

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

1. Measurements were performed in accordance with ANSI C63.10 Sections 12.3.2.4 & 12.5.
2. For all modes of operation, the antenna gain is < 6 dBi.
3. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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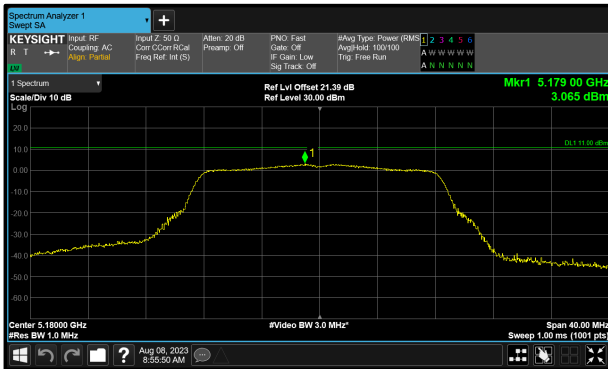
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	∑		
5180 (CH36)	3.06	-	-	-	-	11.00	7.94
5200 (CH40)	3.23	-	-	-	-	11.00	7.77
5240 (CH48)	3.17	-	-	-	-	11.00	7.83

FCC Maximum Power Spectral Density Results

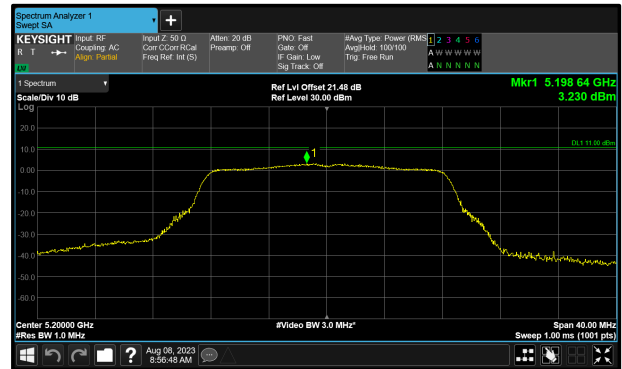
Test Frequency (MHz)	PSD (dBm / MHz)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	∑				
5180 (CH36)	3.06	-	-	-	-	2.50	5.56	10.00	4.44
5200 (CH40)	3.23	-	-	-	-	2.50	5.73	10.00	4.27
5240 (CH48)	3.17	-	-	-	-	2.50	5.67	10.00	4.33

ISED Maximum Power Spectral Density Results

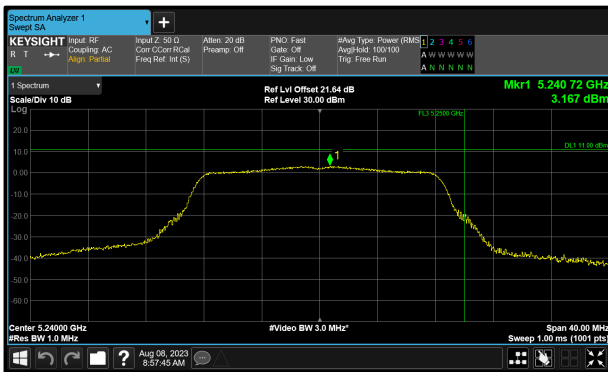
Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)



SP1-C0 5180 MHz (CH36)



SP1-C0 5200 MHz (CH40)



SP1-C0 5240 MHz (CH48)

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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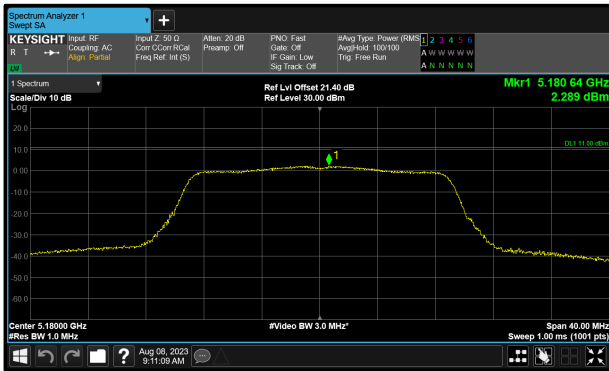
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	∑		
5180 (CH36)	2.29	-	-	-	-	11.00	8.71
5200 (CH40)	3.25	-	-	-	-	11.00	7.75
5240 (CH48)	2.65	-	-	-	-	11.00	8.35

FCC Maximum Power Spectral Density Results

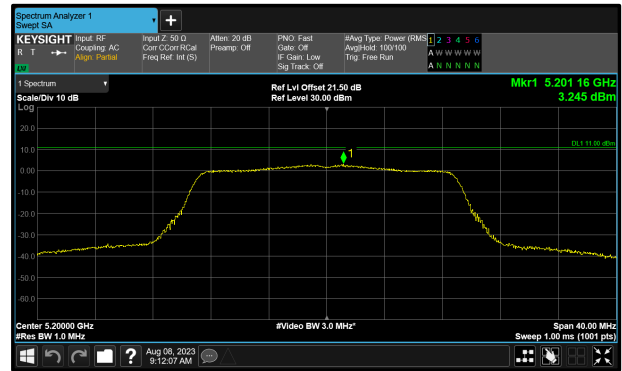
Test Frequency (MHz)	PSD (dBm / MHz)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	∑				
5180 (CH36)	2.29	-	-	-	-	2.50	4.79	10.00	5.21
5200 (CH40)	3.25	-	-	-	-	2.50	5.75	10.00	4.25
5240 (CH48)	2.65	-	-	-	-	2.50	5.15	10.00	4.85

ISED Maximum Power Spectral Density Results

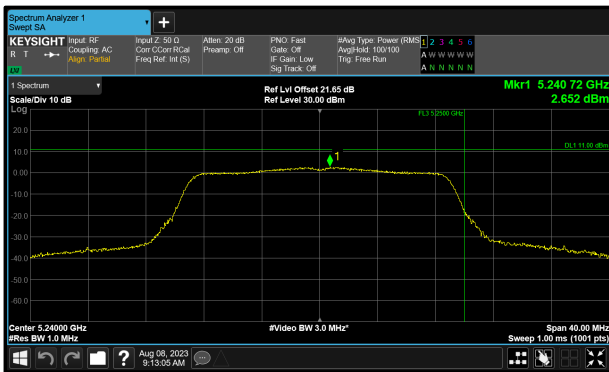
Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)



SP1-C0 5180 MHz (CH36)



SP1-C0 5200 MHz (CH40)



SP1-C0 5240 MHz (CH48)

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause:	15.407 (a) (1)(iv) RSS-247 6.2.1.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

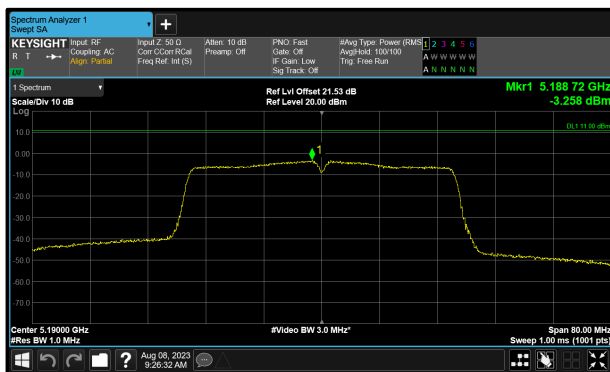
Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.96	Period (ms): 0.965	Width (ms): 0.946
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Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5190 (CH38)	-3.26	-	-	-	-	11.00	14.26
5230 (CH46)	0.32	-	-	-	-	11.00	10.68

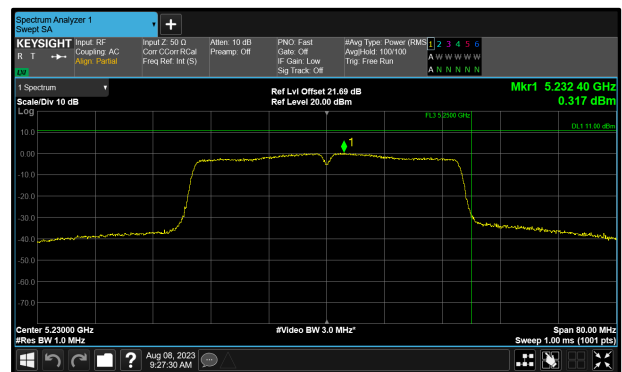
FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ				
5190 (CH38)	-3.26	-	-	-	-	2.50	-0.76	10.00	10.76
5230 (CH46)	0.32	-	-	-	-	2.50	2.82	10.00	7.18

ISED Maximum Power Spectral Density Results



SP1-C0 5190 MHz (CH38)



SP1-C0 5230 MHz (CH46)

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band)**4.3.2 5.25-5.35 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

1. Measurements were performed in accordance with ANSI C63.10 Sections 12.3.2.4 & 12.5.
2. For all modes of operation, the antenna gain is < 6 dBi.
3. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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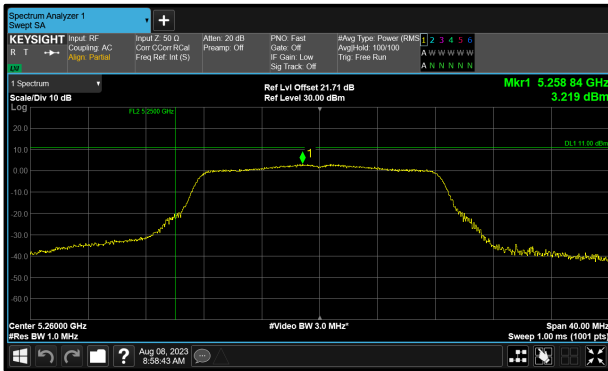
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5260 (CH52)	3.22	-	-	-	-	11.00	7.78
5280 (CH56)	3.15	-	-	-	-	11.00	7.85
5320 (CH64)	2.94	-	-	-	-	11.00	8.06

FCC Maximum Power Spectral Density Results

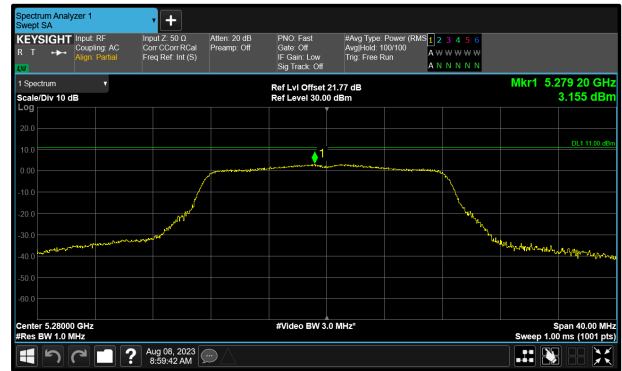
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5260 (CH52)	3.22	-	-	-	-	11.00	7.78
5280 (CH56)	3.15	-	-	-	-	11.00	7.85
5320 (CH64)	2.94	-	-	-	-	11.00	8.06

ISED Maximum Power Spectral Density Results

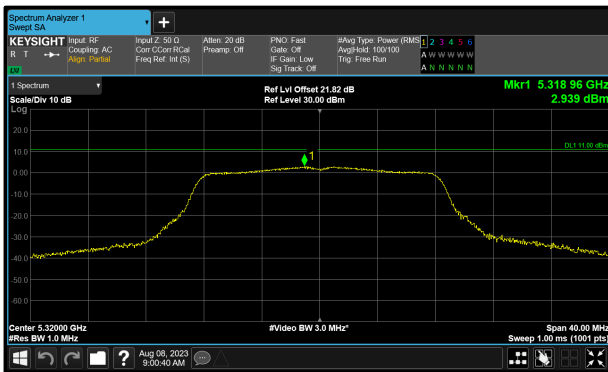
Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)



SP1-C0 5260 MHz (CH52)



SP1-C0 5280 MHz (CH56)



SP1-C0 5320 MHz (CH64)

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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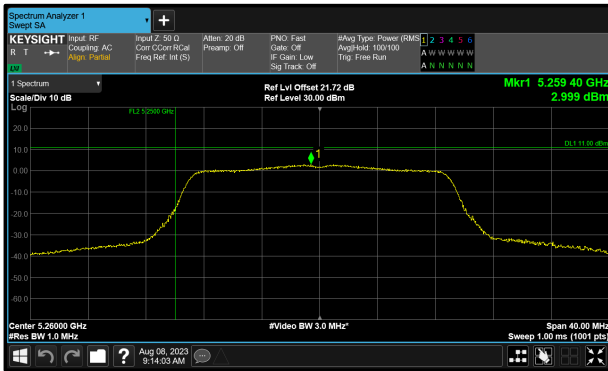
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5260 (CH52)	3.00	-	-	-	-	11.00	8.00
5280 (CH56)	3.12	-	-	-	-	11.00	7.88
5320 (CH64)	2.78	-	-	-	-	11.00	8.22

FCC Maximum Power Spectral Density Results

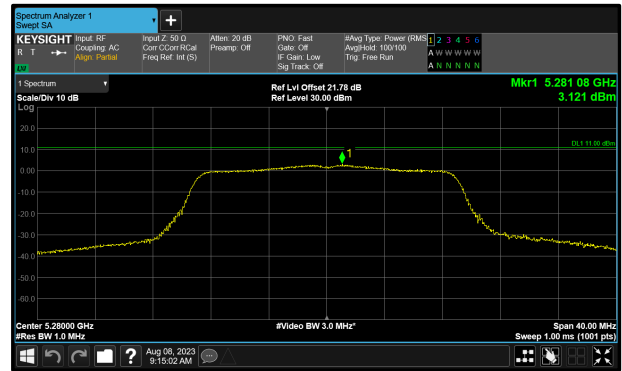
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5260 (CH52)	3.00	-	-	-	-	11.00	8.00
5280 (CH56)	3.12	-	-	-	-	11.00	7.88
5320 (CH64)	2.78	-	-	-	-	11.00	8.22

ISED Maximum Power Spectral Density Results

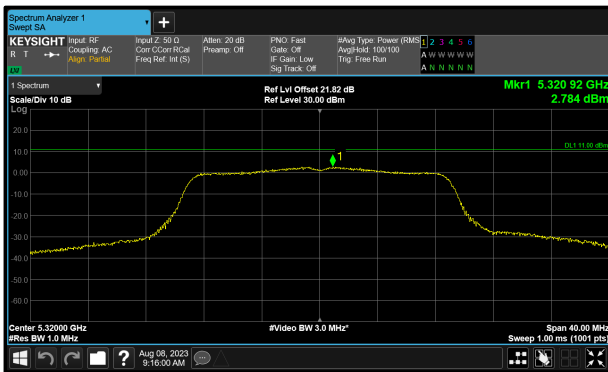
Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)



SP1-C0 5260 MHz (CH52)



SP1-C0 5280 MHz (CH56)



SP1-C0 5320 MHz (CH64)

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

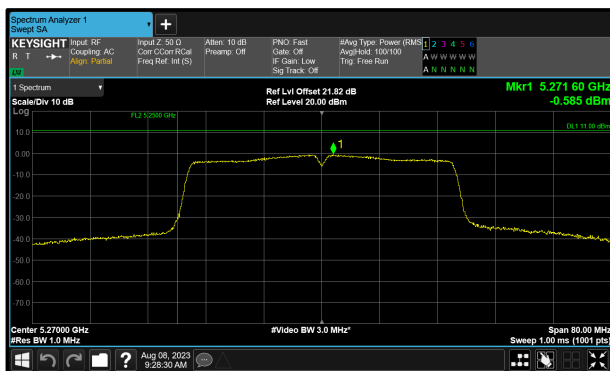
Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.97	Period (ms): 0.965	Width (ms): 0.945
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Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5270 (CH54)	-0.59	-	-	-	-	11.00	11.59
5310 (CH62)	-2.35	-	-	-	-	11.00	13.35

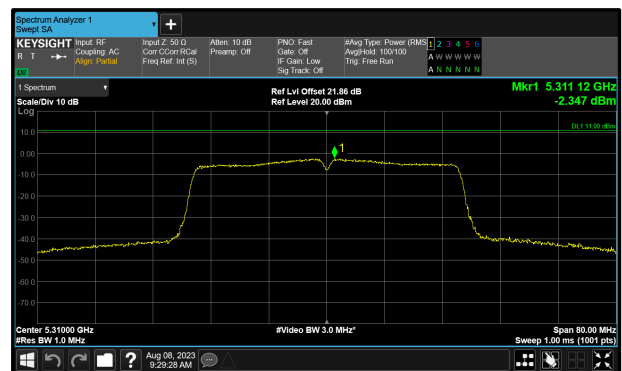
FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5270 (CH54)	-0.59	-	-	-	-	11.00	11.59
5310 (CH62)	-2.35	-	-	-	-	11.00	13.35

ISED Maximum Power Spectral Density Results



SP1-C0 5270 MHz (CH54)



SP1-C0 5310 MHz (CH62)

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)

Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause:	15.407 (a)(2) RSS-247 6.2.2.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

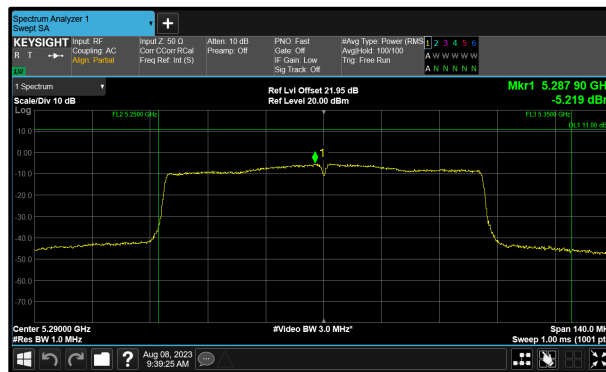
Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.98	Period (ms): 0.481	Width (ms): 0.462
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Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5290 (CH58)	-5.22	-	-	-	-	11.00	16.22

FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5290 (CH58)	-5.22	-	-	-	-	11.00	16.22

ISED Maximum Power Spectral Density Results



SP1-C0 5290 MHz (CH58)

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band)**4.3.3 5.47-5.725 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

1. Measurements were performed in accordance with ANSI C63.10 Sections 12.3.2.4 & 12.5.
2. For all modes of operation, the antenna gain is < 6 dBi.
3. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.02	Period (ms): 2.085	Width (ms): 2.065
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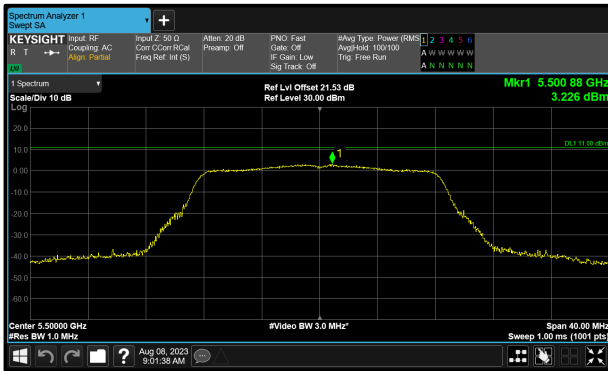
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5500 (CH100)	3.23	-	-	-	-	11.00	7.77
5580 (CH116)	4.16	-	-	-	-	11.00	6.84
5700 (CH140)	0.30	-	-	-	-	11.00	10.70
5720 (CH144)	3.06	-	-	-	-	11.00	7.94

FCC Maximum Power Spectral Density Results

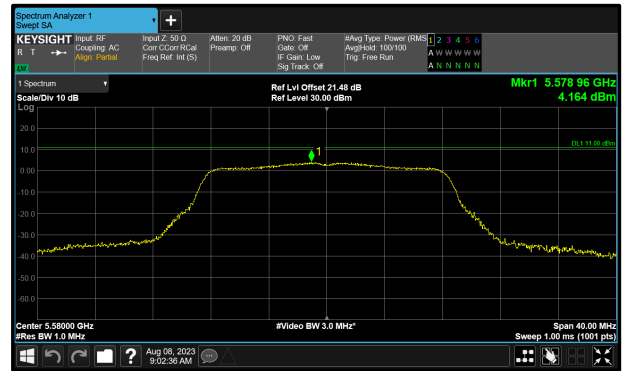
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5500 (CH100)	3.23	-	-	-	-	11.00	7.77
5580 (CH116)	4.16	-	-	-	-	11.00	6.84
5700 (CH140)	0.30	-	-	-	-	11.00	10.70
5720 (CH144)	3.06	-	-	-	-	11.00	7.94

ISED Maximum Power Spectral Density Results

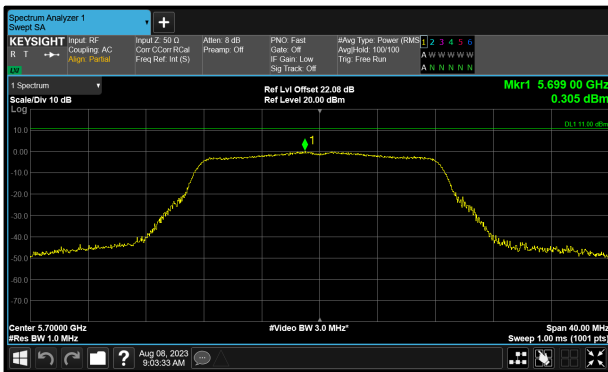
Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)



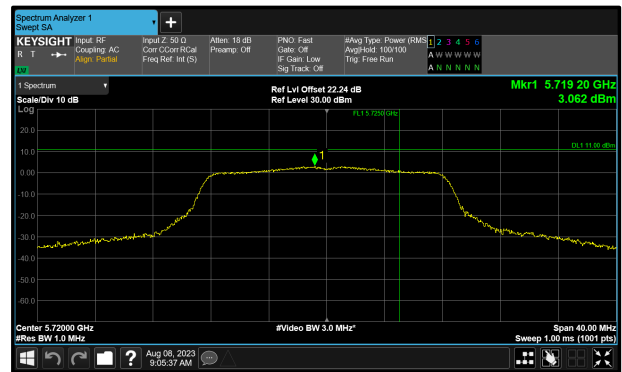
SP1-C0 5500 MHz (CH100)



SP1-C0 5580 MHz (CH116)



SP1-C0 5700 MHz (CH140)



SP1-C0 5720 MHz (CH144)

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.94	Period (ms): 1.941	Width (ms): 1.921
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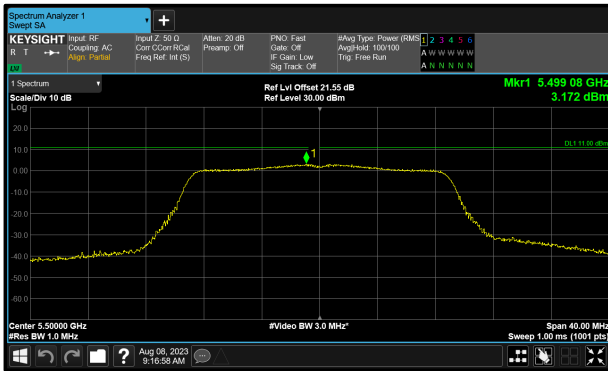
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5500 (CH100)	3.17	-	-	-	-	11.00	7.83
5580 (CH116)	3.79	-	-	-	-	11.00	7.21
5700 (CH140)	-0.57	-	-	-	-	11.00	11.57
5720 (CH144)	2.76	-	-	-	-	11.00	8.24

FCC Maximum Power Spectral Density Results

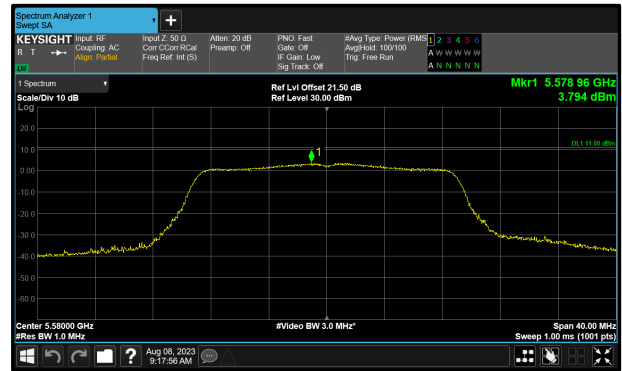
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5500 (CH100)	3.17	-	-	-	-	11.00	7.83
5580 (CH116)	3.79	-	-	-	-	11.00	7.21
5700 (CH140)	-0.57	-	-	-	-	11.00	11.57
5720 (CH144)	2.76	-	-	-	-	11.00	8.24

ISED Maximum Power Spectral Density Results

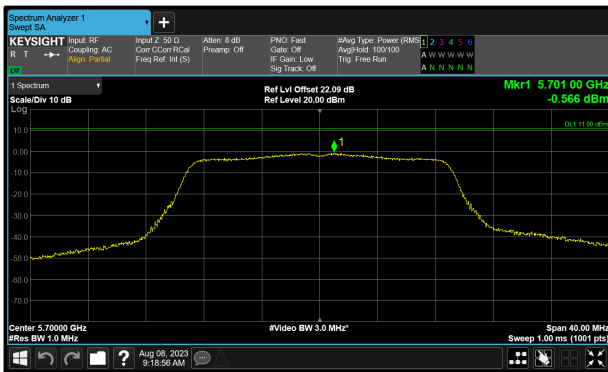
Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)



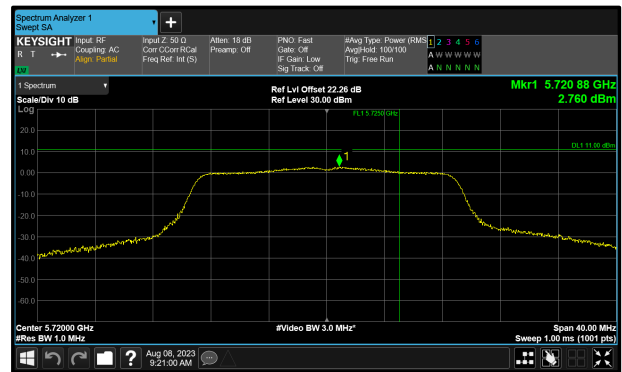
SP1-C0 5500 MHz (CH100)



SP1-C0 5580 MHz (CH116)



SP1-C0 5700 MHz (CH140)



SP1-C0 5720 MHz (CH144)

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT40
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 97.97	Period (ms): 0.965	Width (ms): 0.945
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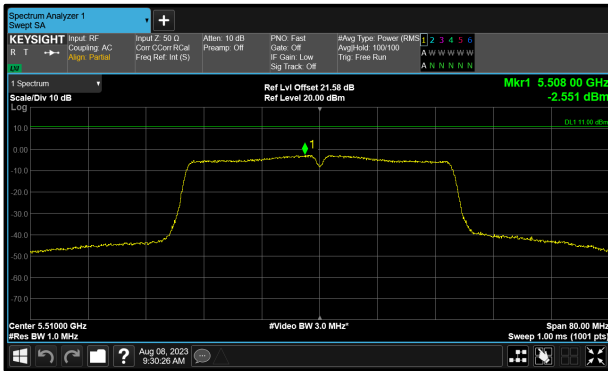
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5510 (CH102)	-2.55	-	-	-	-	11.00	13.55
5550 (CH110)	0.93	-	-	-	-	11.00	10.07
5670 (CH134)	0.50	-	-	-	-	11.00	10.50
5710 (CH142)	0.40	-	-	-	-	11.00	10.60

FCC Maximum Power Spectral Density Results

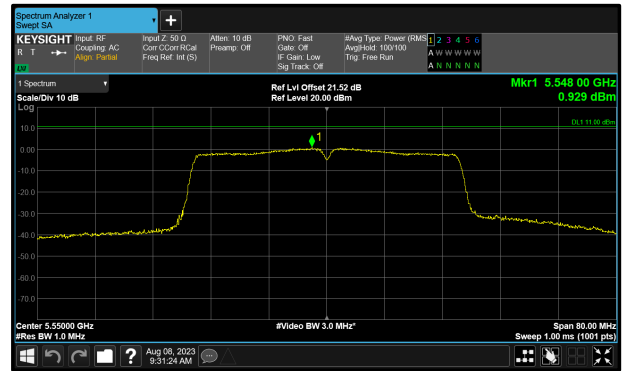
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5510 (CH102)	-2.55	-	-	-	-	11.00	13.55
5550 (CH110)	0.93	-	-	-	-	11.00	10.07
5670 (CH134)	0.50	-	-	-	-	11.00	10.50
5710 (CH142)	0.40	-	-	-	-	11.00	10.60

ISED Maximum Power Spectral Density Results

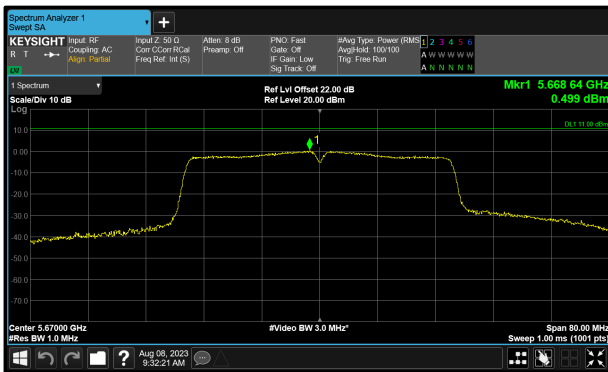
Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)



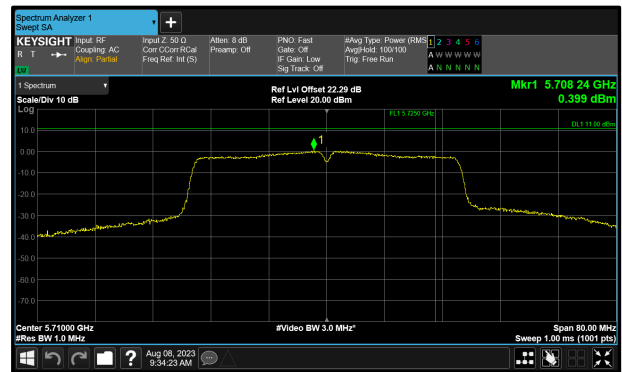
SP1-C0 5510 MHz (CH102)



SP1-C0 5550 MHz (CH110)



SP1-C0 5670 MHz (CH134)



SP1-C0 5710 MHz (CH142)

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)

Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause:	15.407 (a)(2) RSS-247 6.2.3.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11ac VHT80
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0x1 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 95.98	Period (ms): 0.481	Width (ms): 0.462
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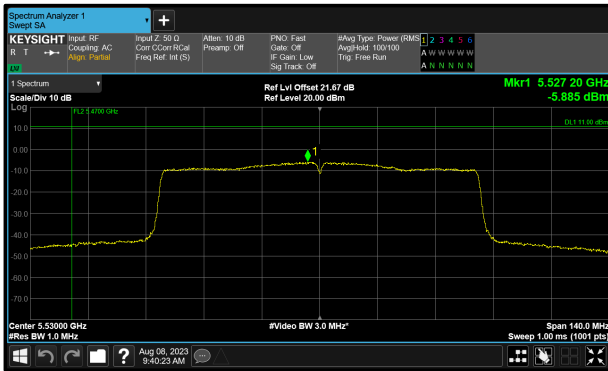
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5530 (CH106)	-5.88	-	-	-	-	11.00	16.88
5610 (CH122)	-1.45	-	-	-	-	11.00	12.45
5690 (CH138)	-2.69	-	-	-	-	11.00	13.69

FCC Maximum Power Spectral Density Results

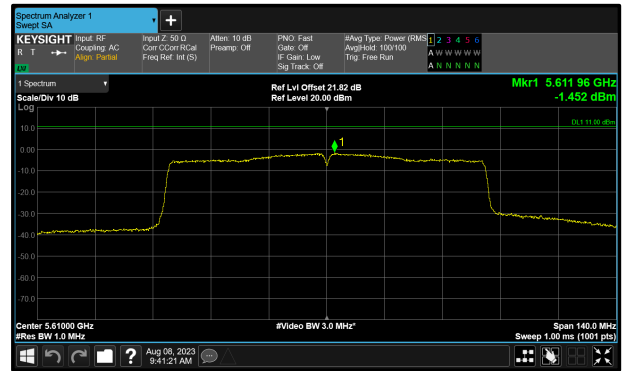
Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5530 (CH106)	-5.88	-	-	-	-	11.00	16.88
5610 (CH122)	-1.45	-	-	-	-	11.00	12.45
5690 (CH138)	-2.69	-	-	-	-	11.00	13.69

ISED Maximum Power Spectral Density Results

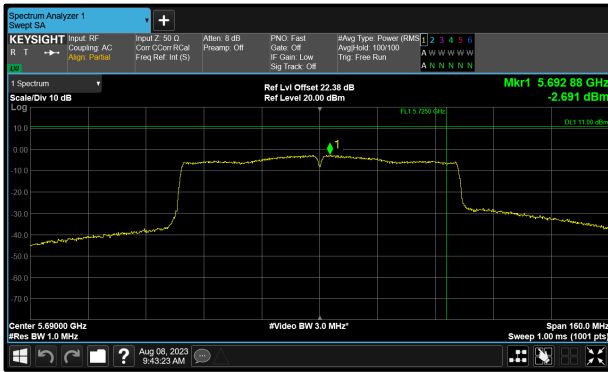
Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)



SP1-C0 5530 MHz (CH106)



SP1-C0 5610 MHz (CH122)



SP1-C0 5690 MHz (CH138)

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band)**4.3.4 5.725-5.85 GHz band****Test Summary:**

Test Engineer:	Luis Pazos Perez	Test Date:	08 August 2023
Test Sample Serial Number:	C9		

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	50

Note(s):

1. Measurements were performed in accordance with ANSI C63.10 Sections 12.3.2.4 & 12.5.
2. For all modes of operation, the antenna gain is < 6 dBi.
3. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11a
Test Port:	1 (SP1-C0)	Modulation/Rate:	6 Mbps (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 99.03	Period (ms): 2.085	Width (ms): 2.065
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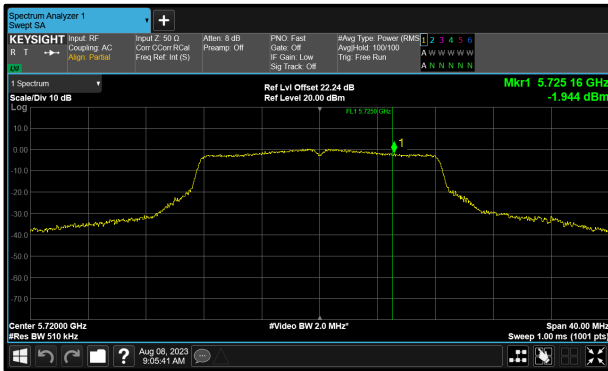
Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5720 (CH144)	-1.94	-	-	-	-	30.00	31.94
5745 (CH149)	0.85	-	-	-	-	30.00	29.15
5785 (CH157)	0.27	-	-	-	-	30.00	29.73
5825 (CH165)	0.15	-	-	-	-	30.00	29.85

FCC Maximum Power Spectral Density Results

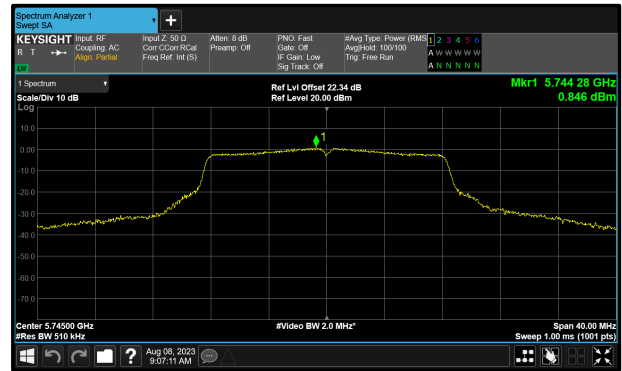
Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5720 (CH144)	-1.94	-	-	-	-	30.00	31.94
5745 (CH149)	0.85	-	-	-	-	30.00	29.15
5785 (CH157)	0.27	-	-	-	-	30.00	29.73
5825 (CH165)	0.15	-	-	-	-	30.00	29.85

ISED Maximum Power Spectral Density Results

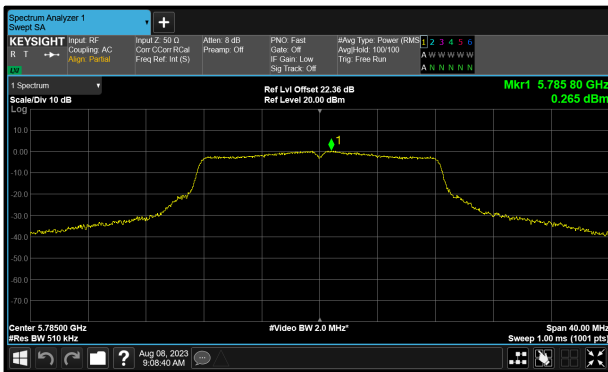
Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)



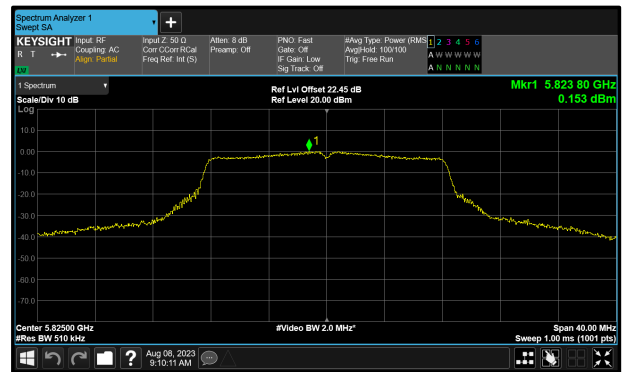
SP1-C0 5720 MHz (CH144)



SP1-C0 5745 MHz (CH149)



SP1-C0 5785 MHz (CH157)



SP1-C0 5825 MHz (CH165)

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause:	15.407 (a)(3) RSS-247 6.2.4.1	Test Method:	C63.10 12.3.2.4 C63.10 12.5
Note:	DCCF was added to the spectrum analyser reference level offset.		

Antenna Configuration:	SISO	Mode:	802.11n HT20
Test Port:	1 (SP1-C0)	Modulation/Rate:	MCS0 (BPSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 98.96	Period (ms): 1.941	Width (ms): 1.921
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Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5720 (CH144)	-2.50	-	-	-	-	30.00	32.50
5745 (CH149)	0.44	-	-	-	-	30.00	29.56
5785 (CH157)	0.24	-	-	-	-	30.00	29.76
5825 (CH165)	-0.06	-	-	-	-	30.00	30.06

FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm)	Margin (dB)
	1	2	3	4	Σ		
5720 (CH144)	-2.50	-	-	-	-	30.00	32.50
5745 (CH149)	0.44	-	-	-	-	30.00	29.56
5785 (CH157)	0.24	-	-	-	-	30.00	29.76
5825 (CH165)	-0.06	-	-	-	-	30.00	30.06

ISED Maximum Power Spectral Density Results